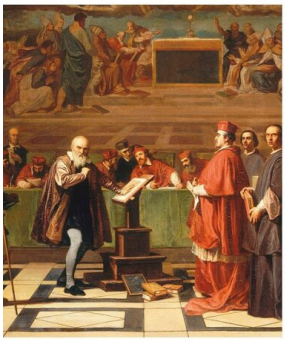

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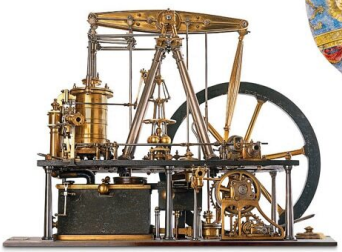

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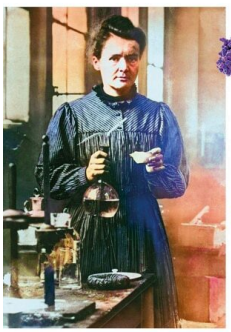

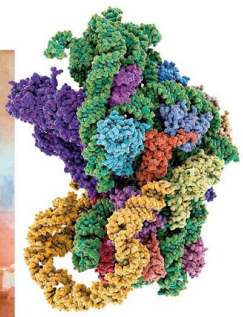

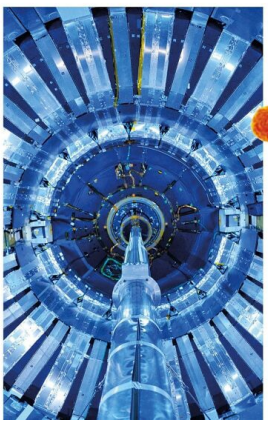

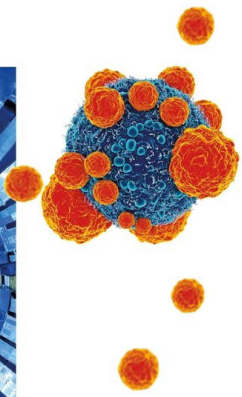

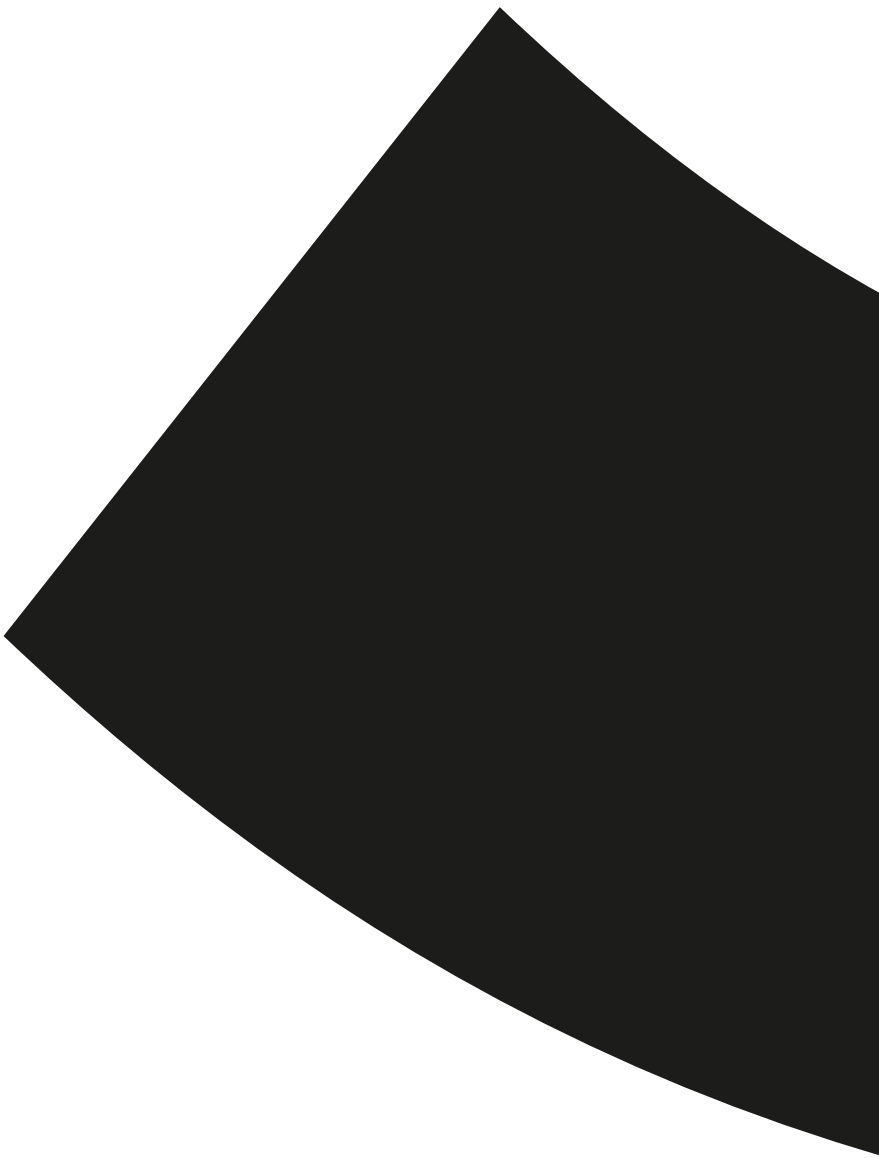

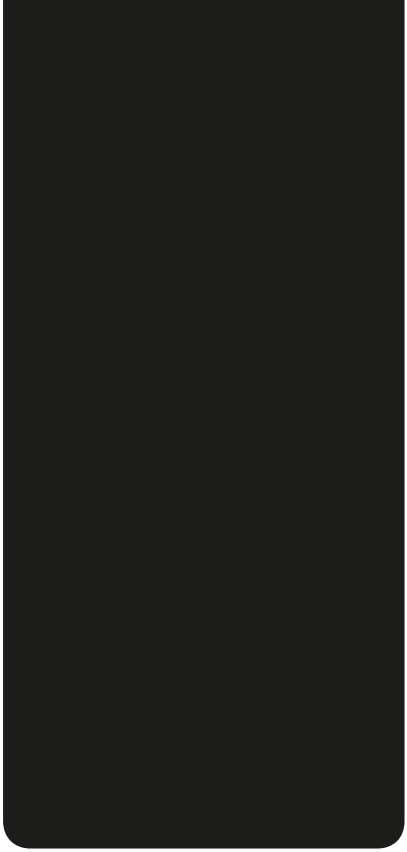

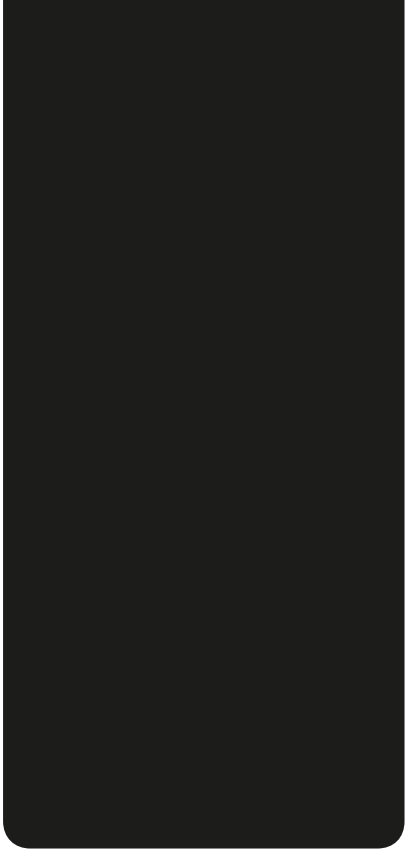

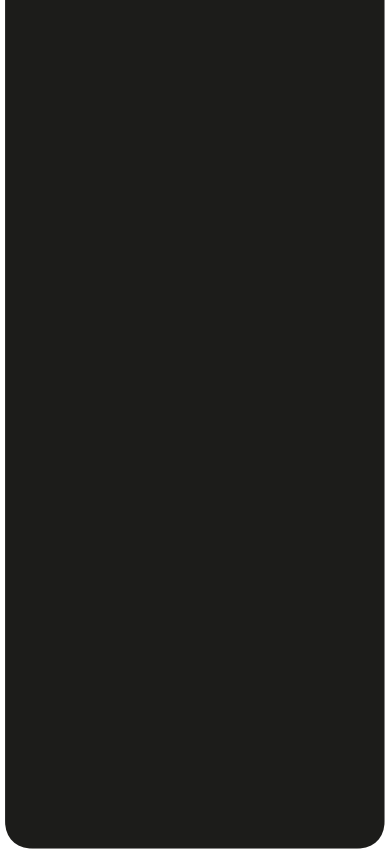

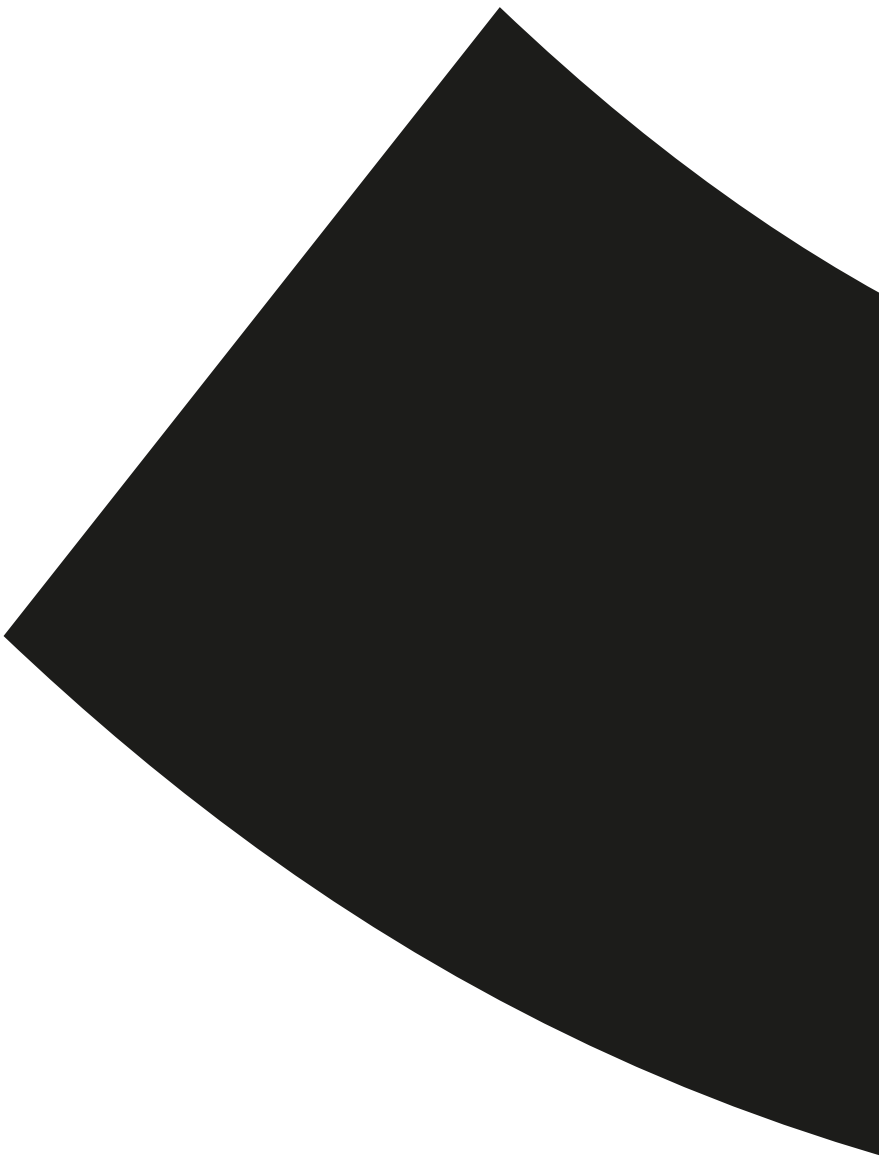

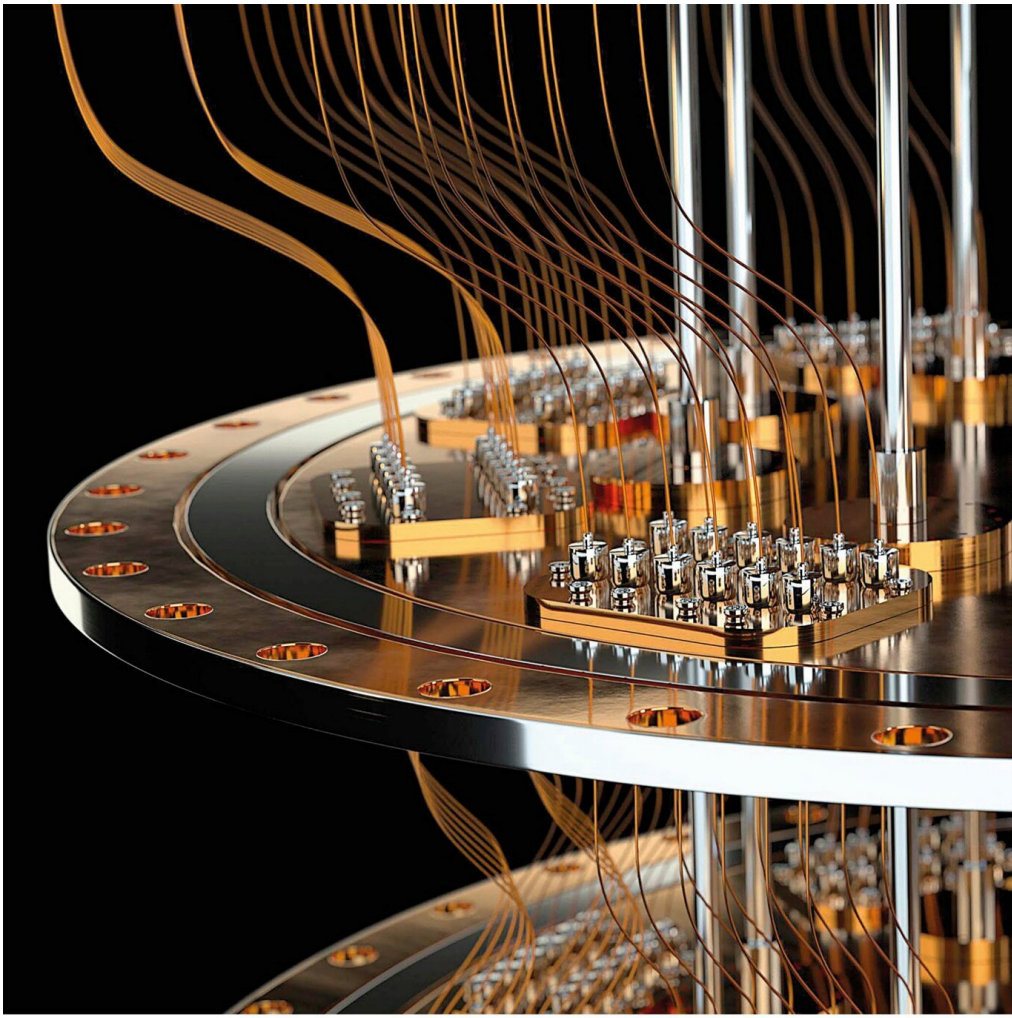

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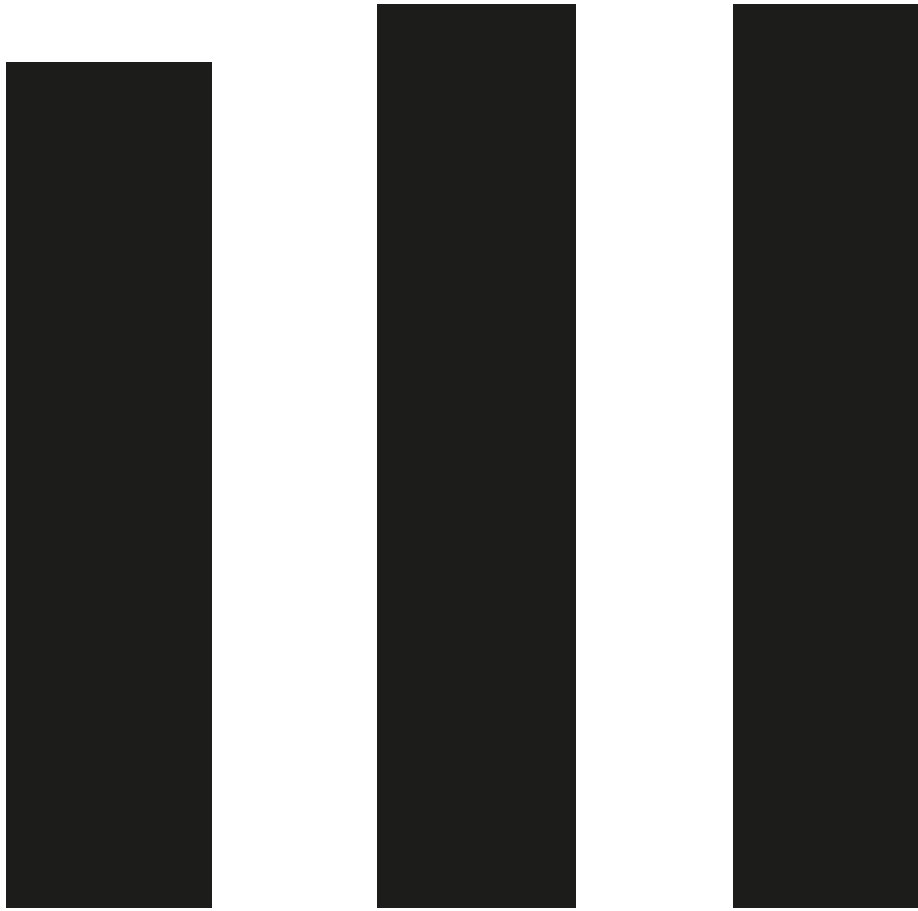

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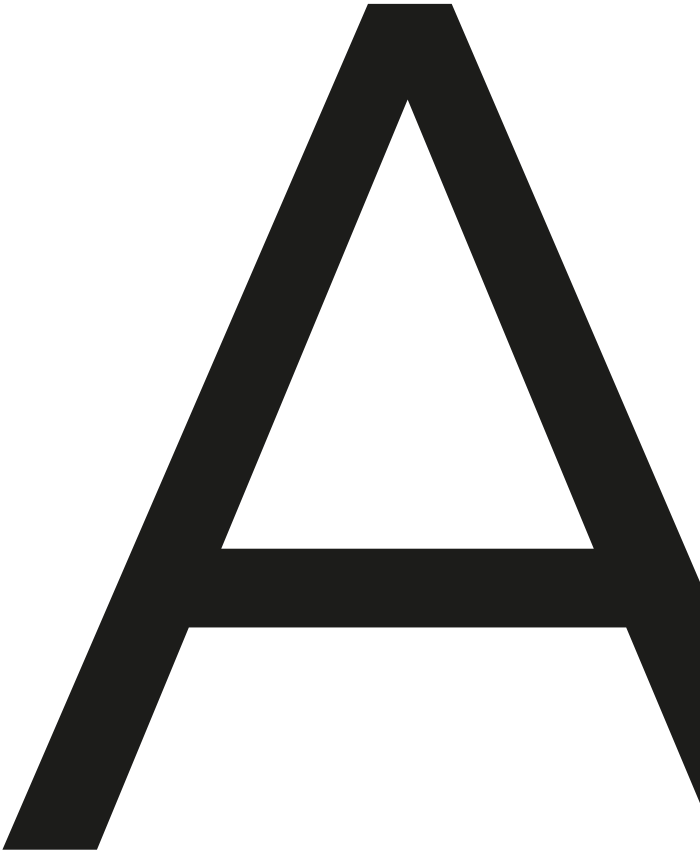

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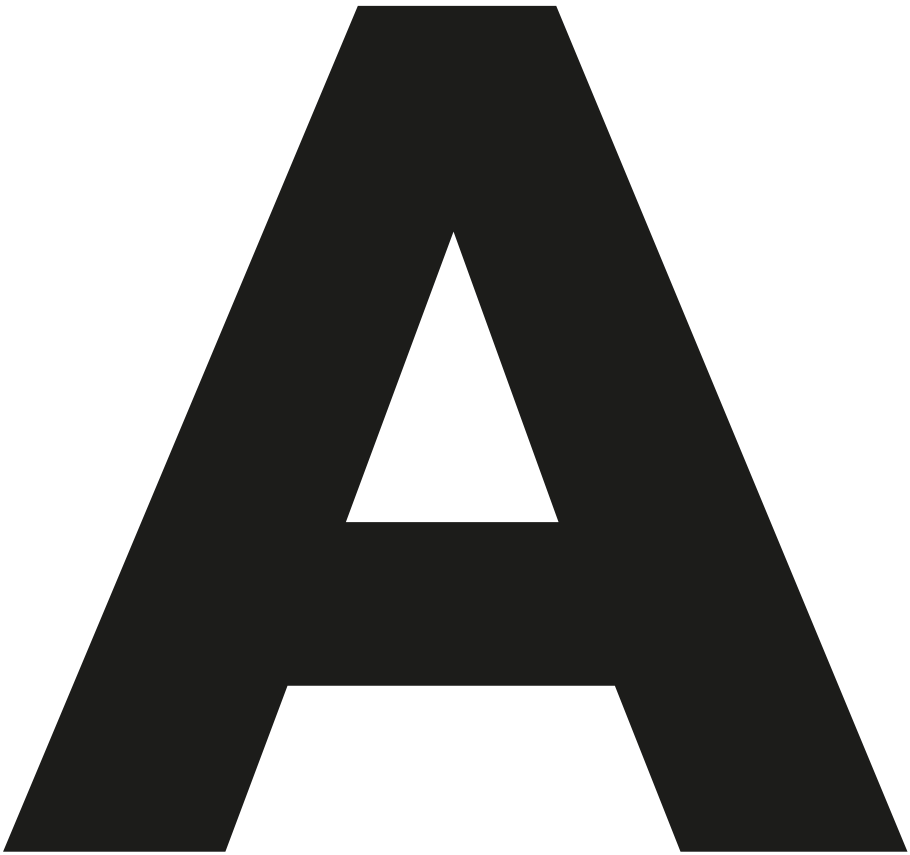

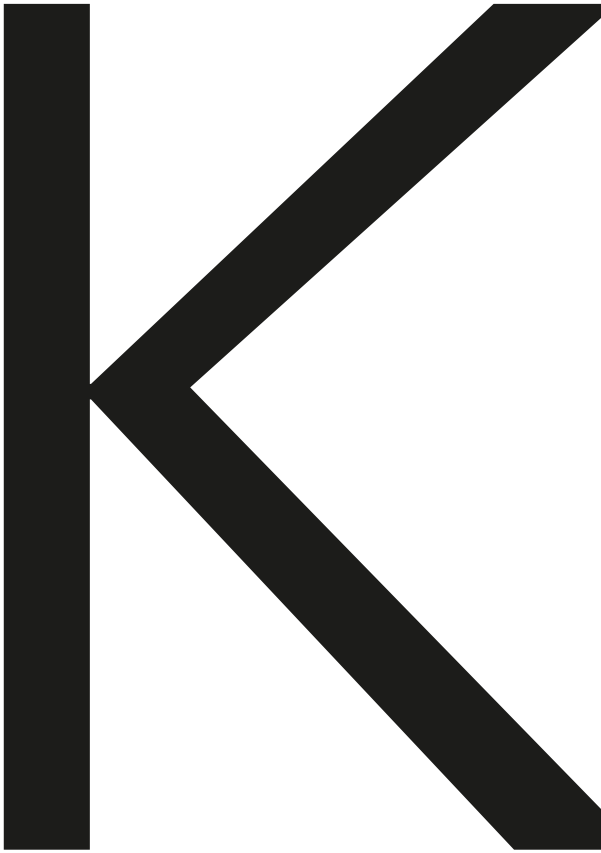

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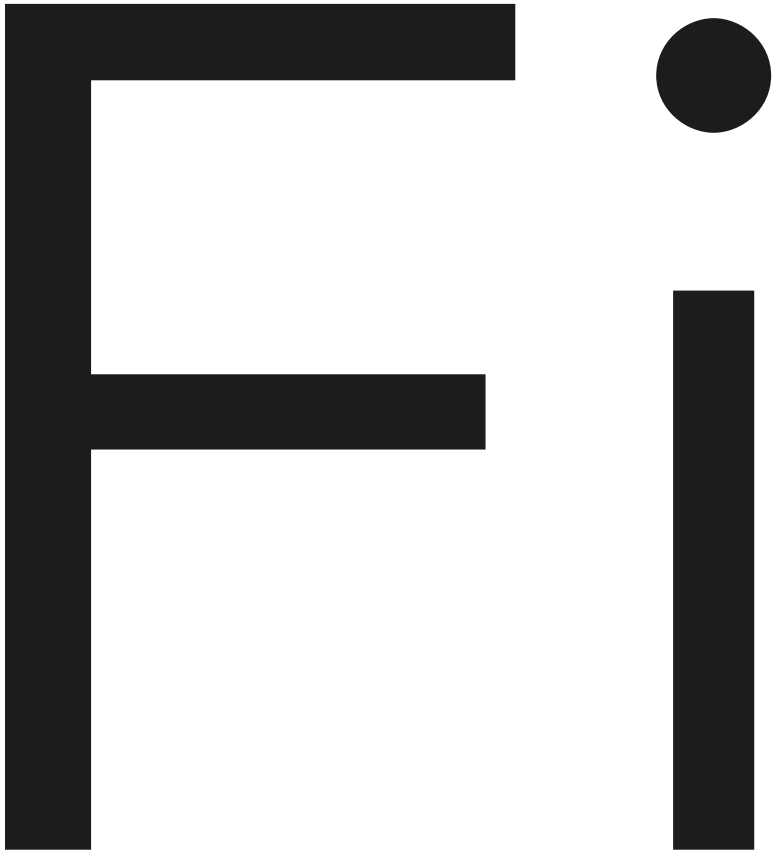

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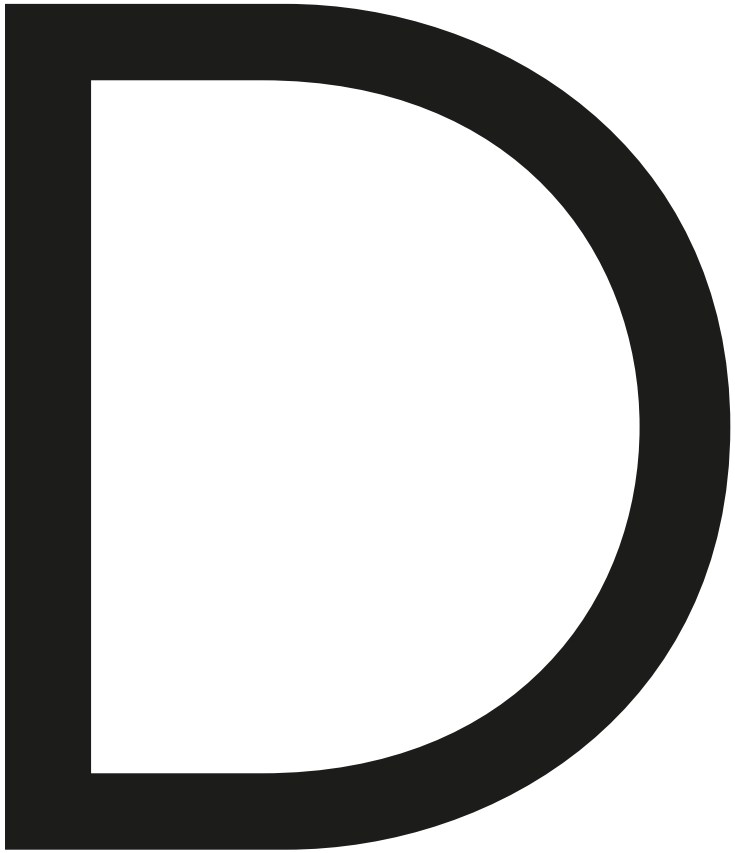

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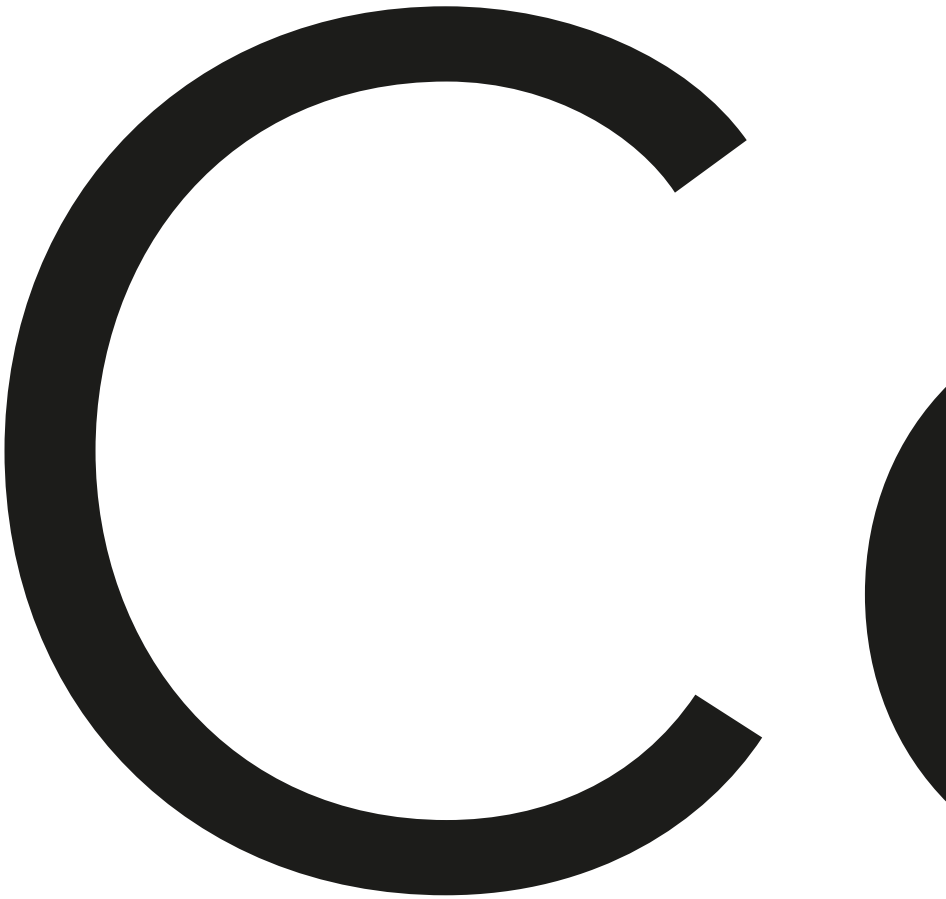

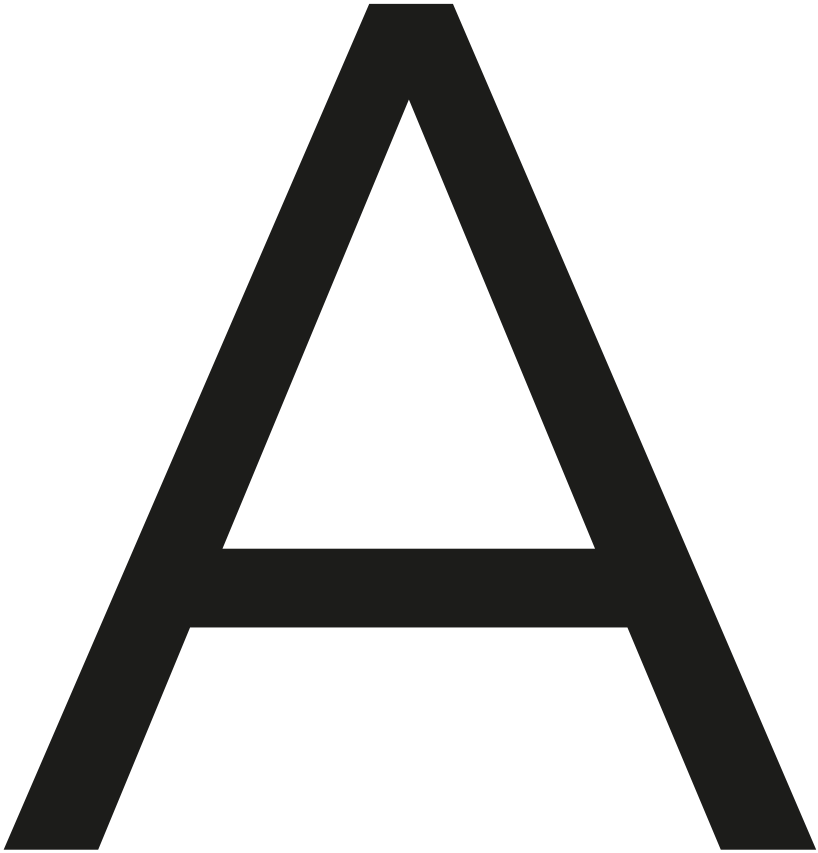

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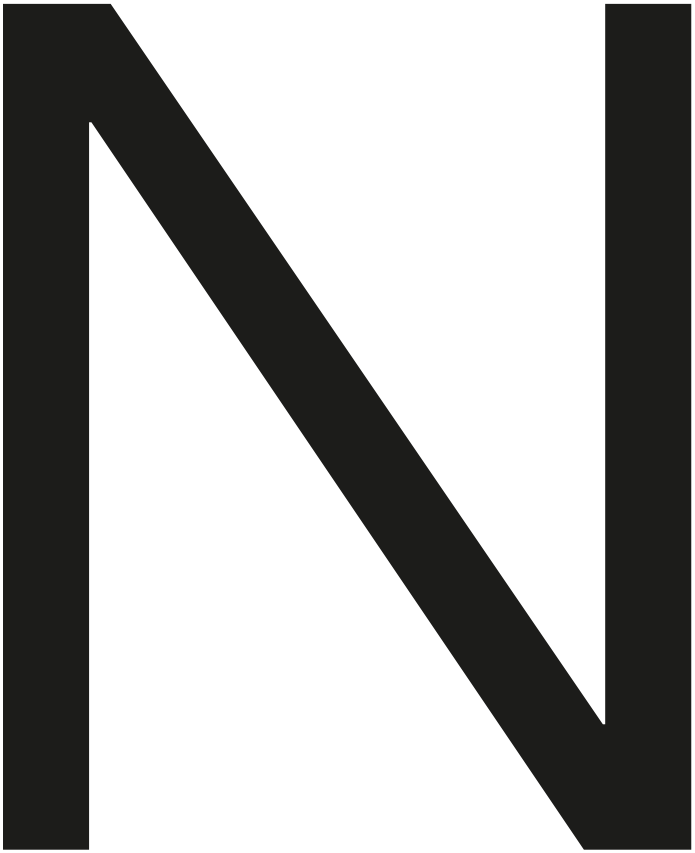

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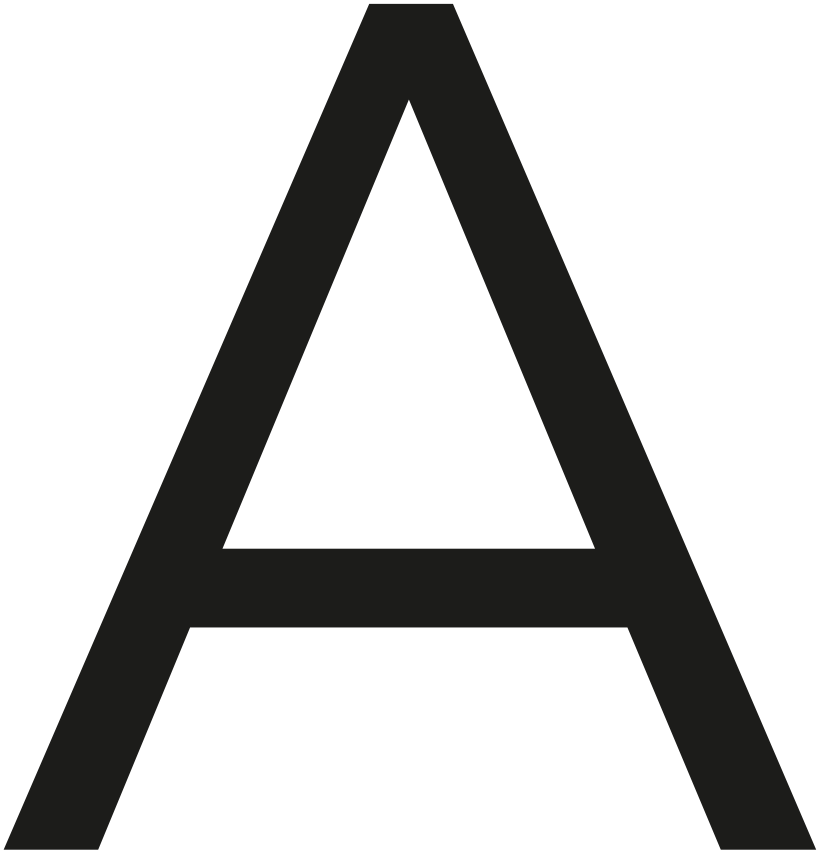

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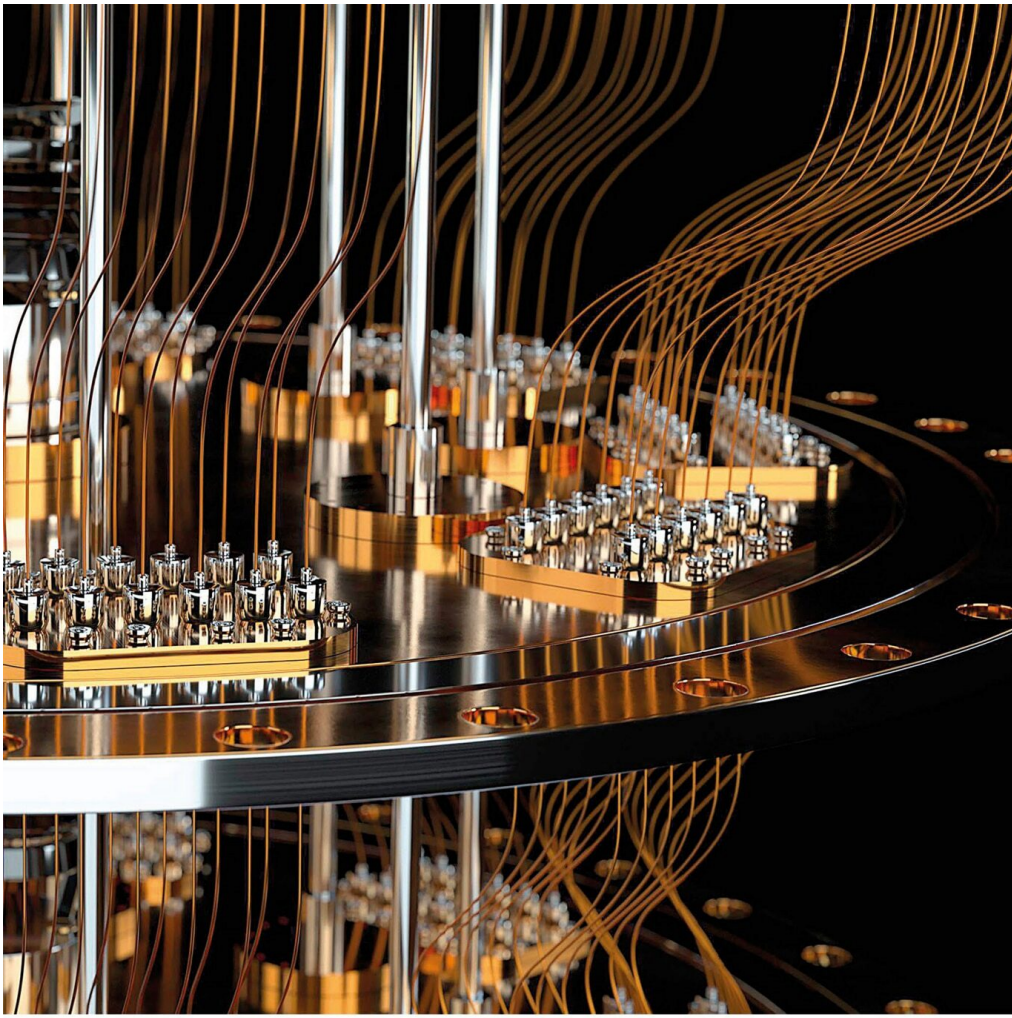

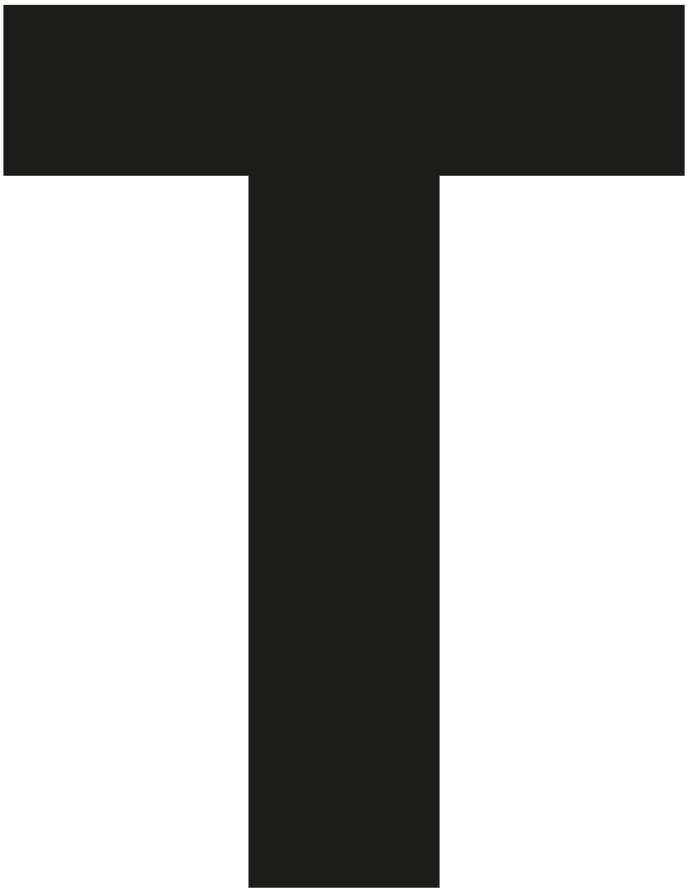

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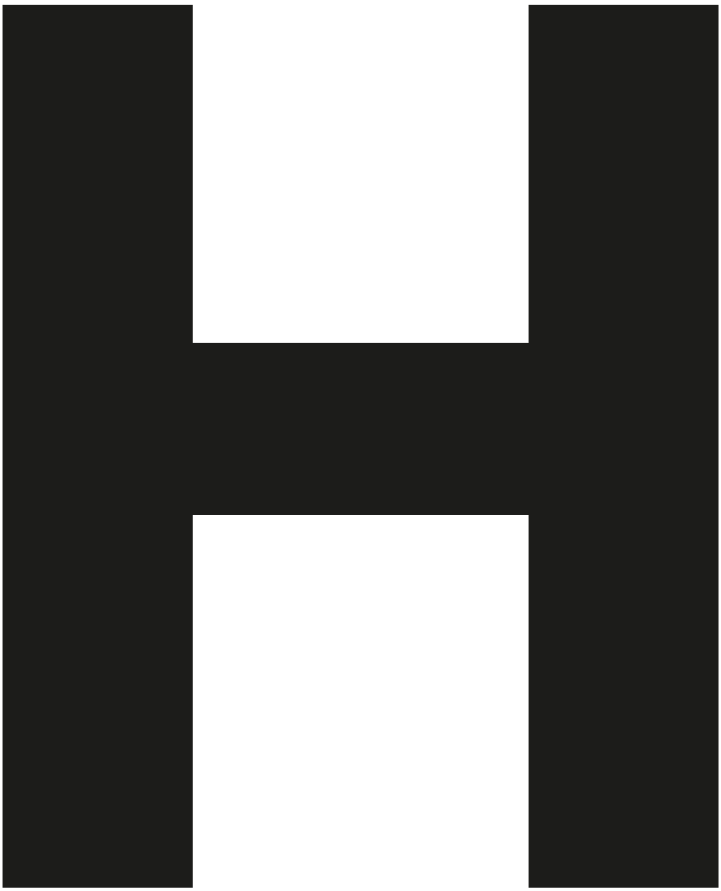

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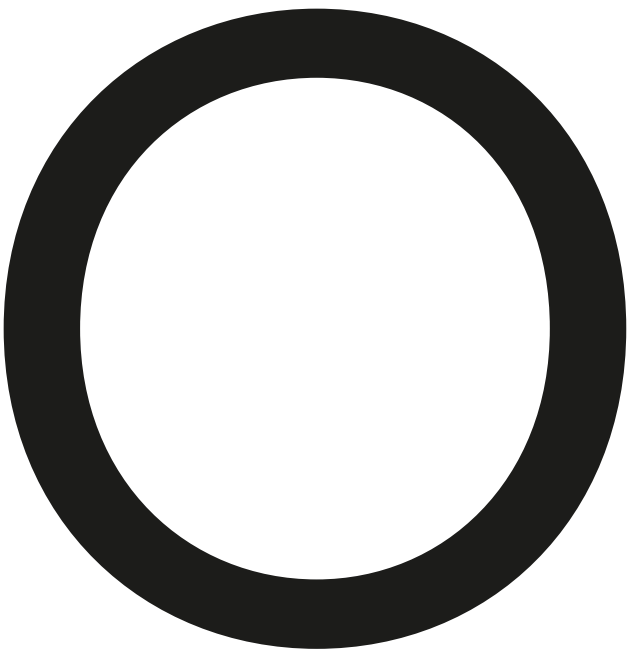

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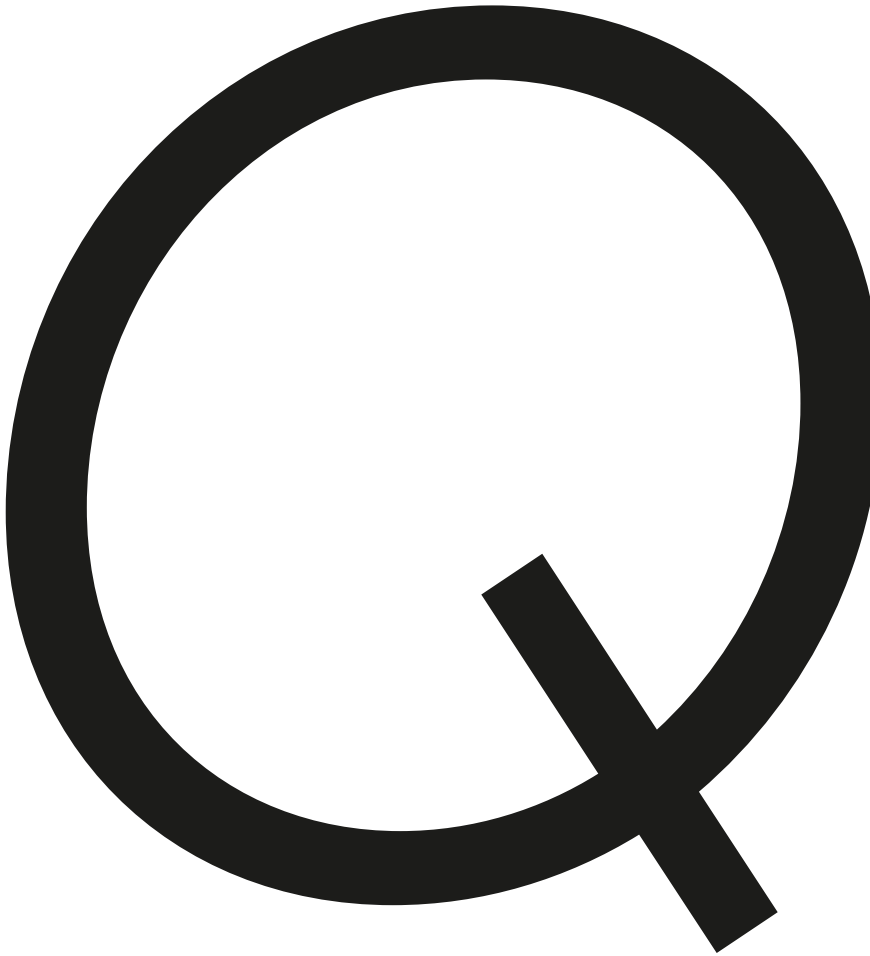

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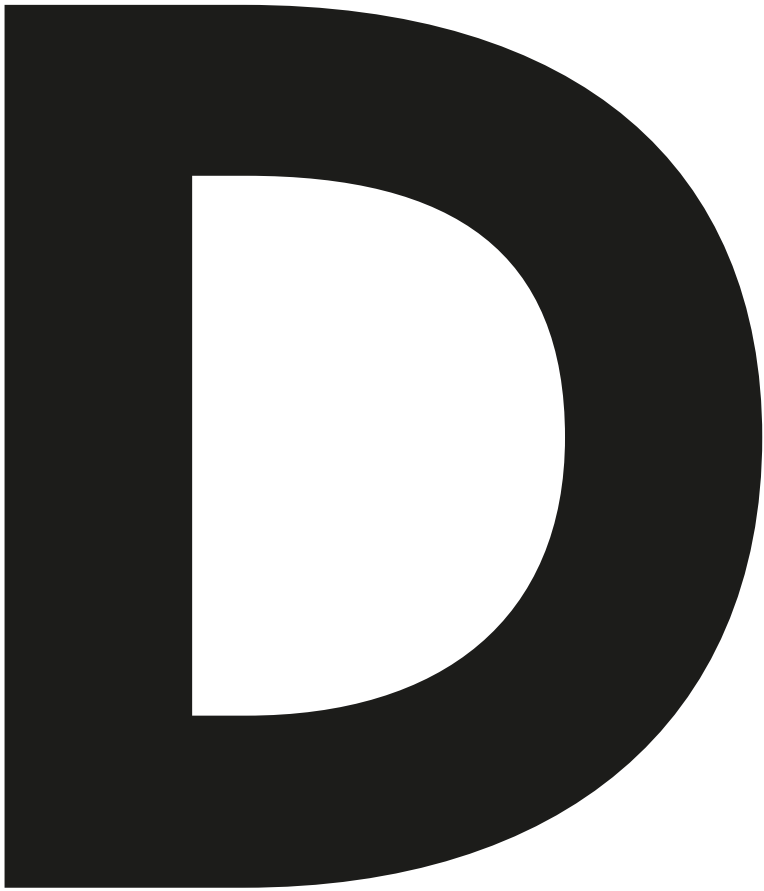

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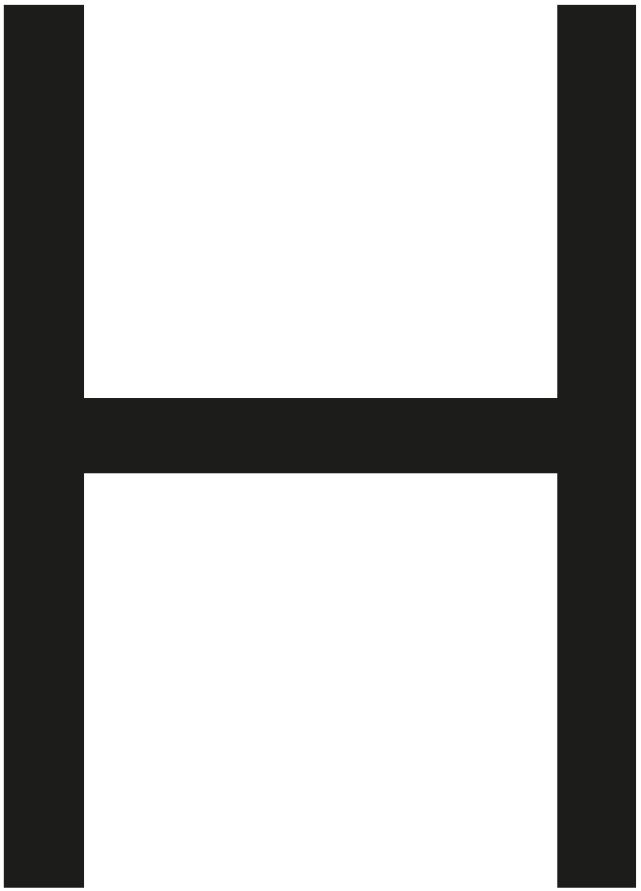

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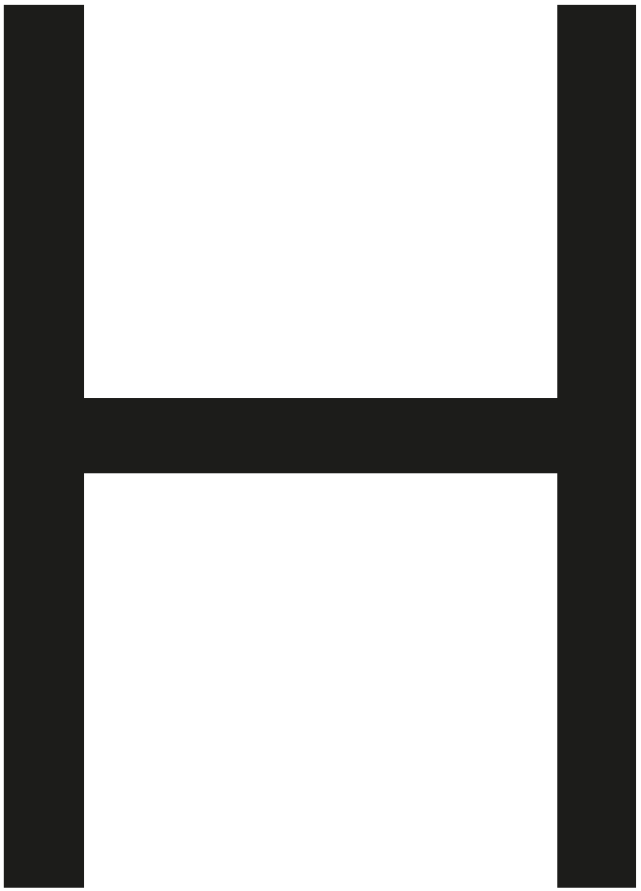

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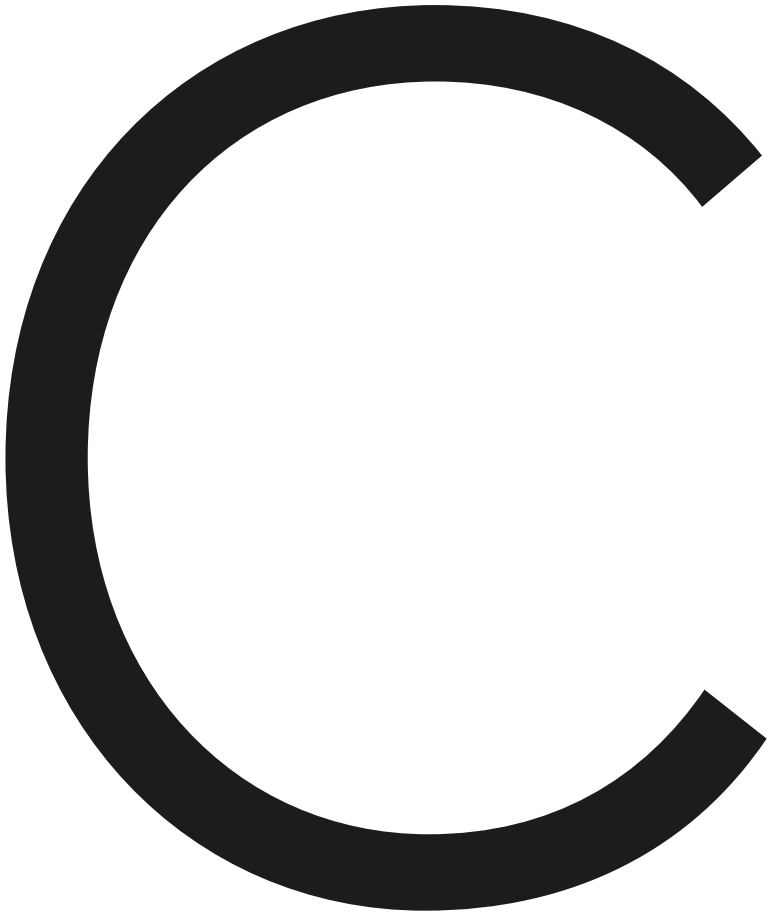

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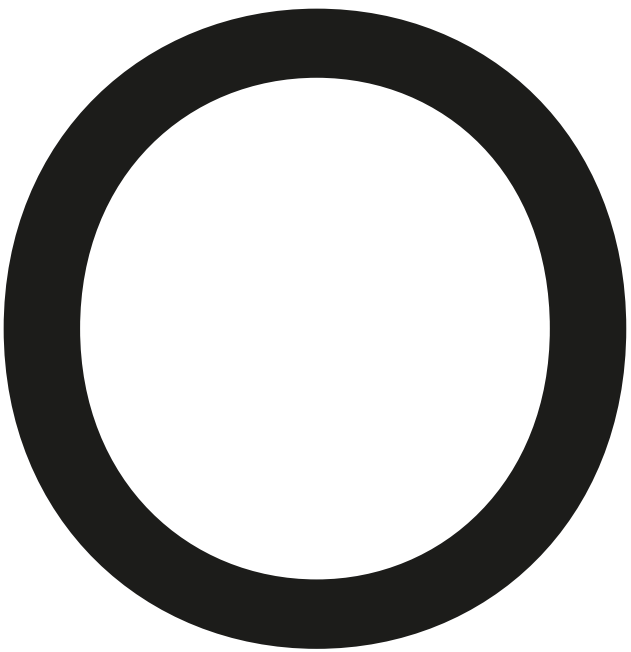

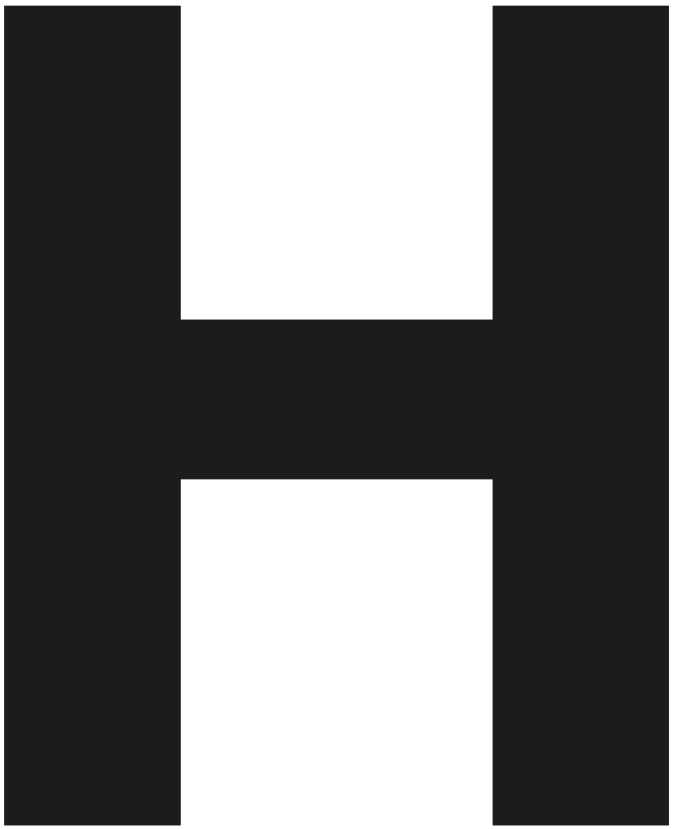

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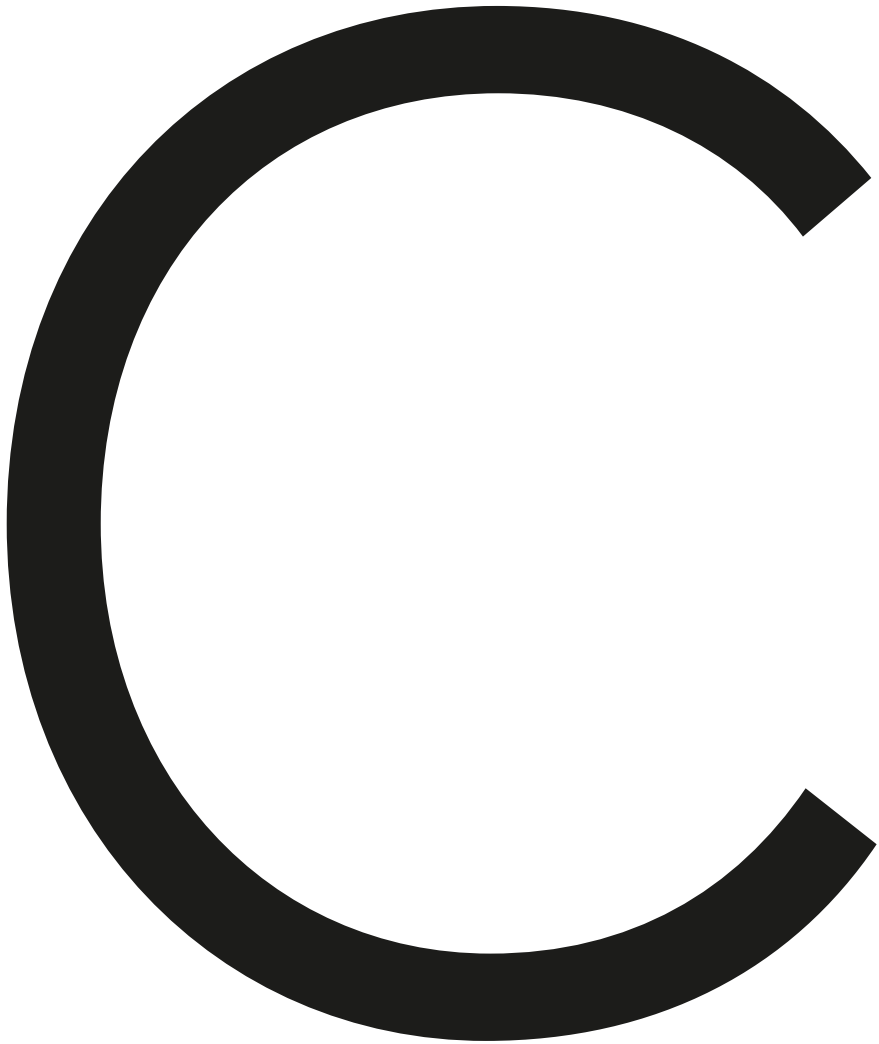

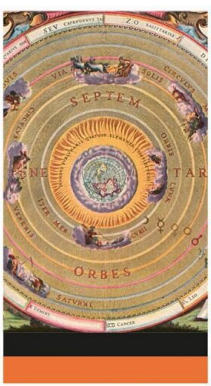
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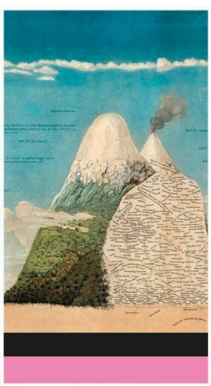

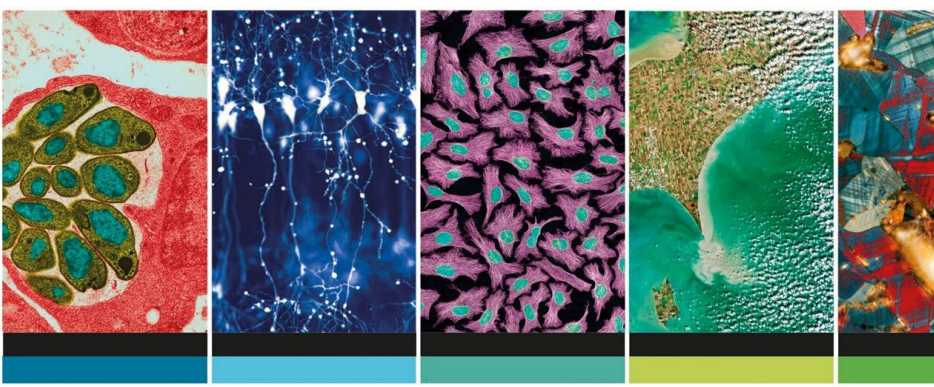

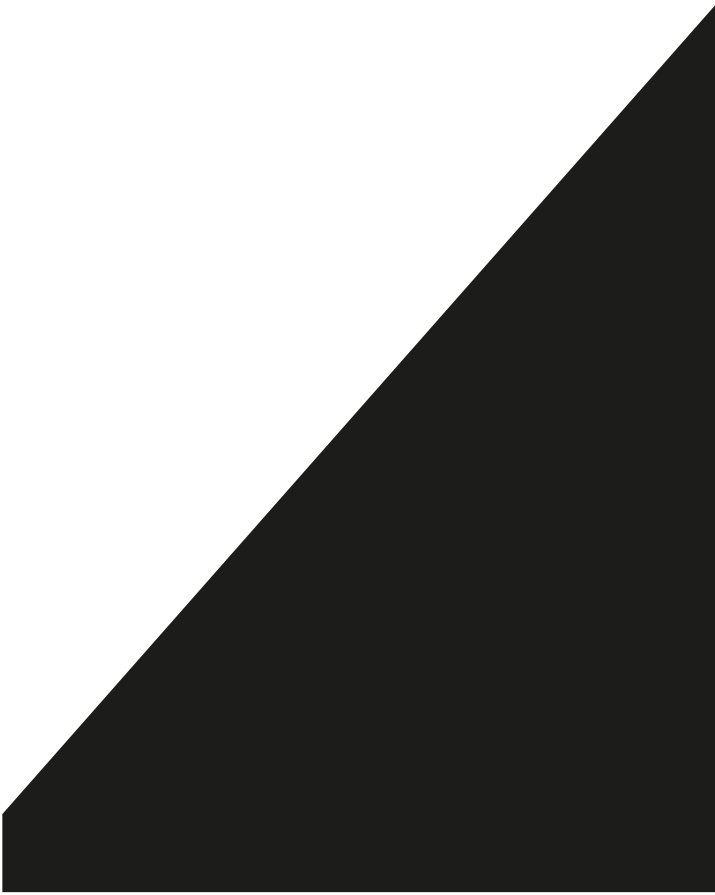

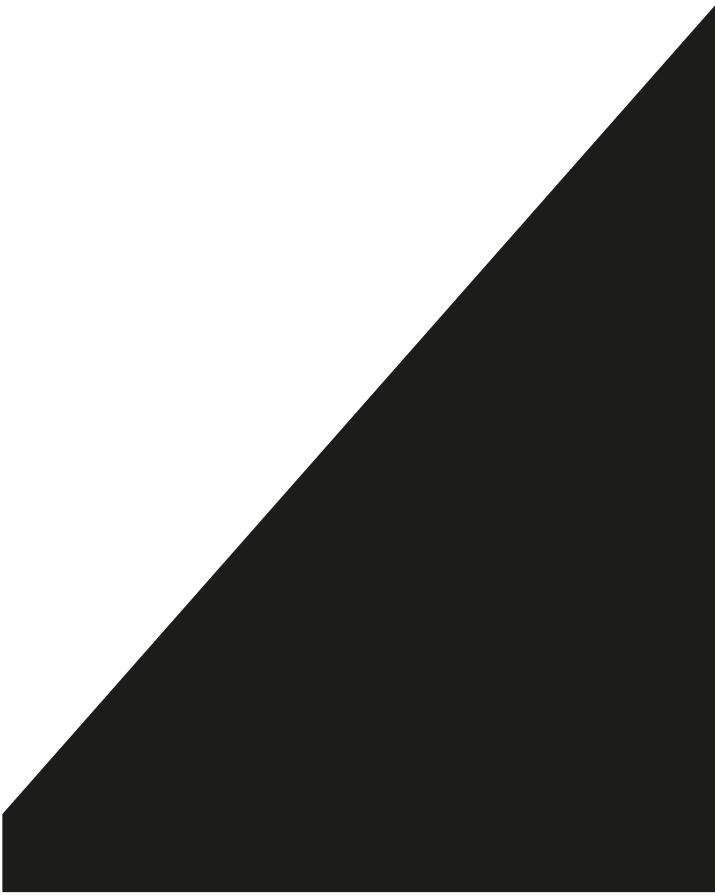

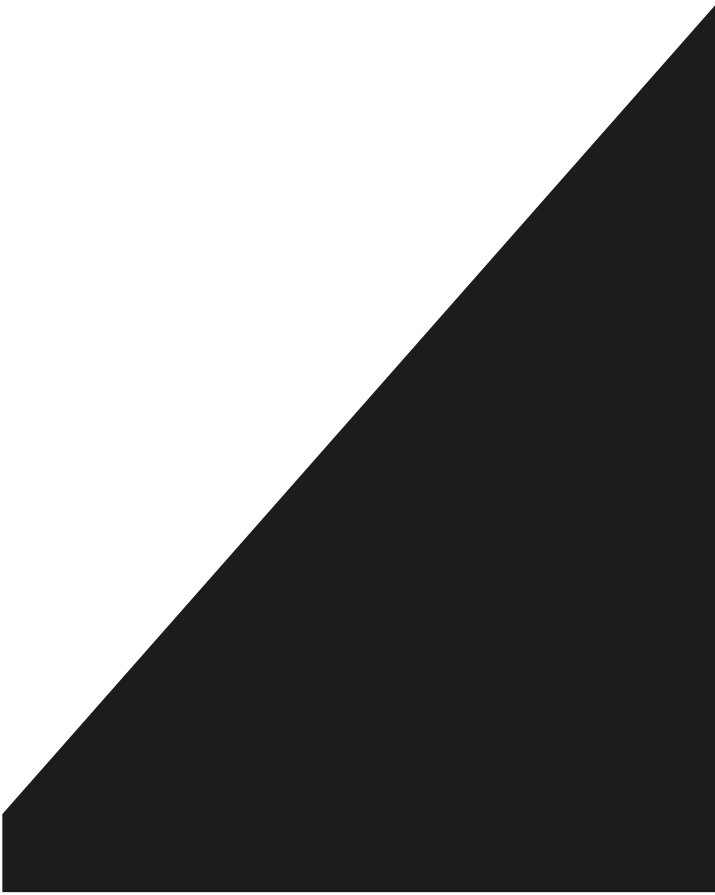

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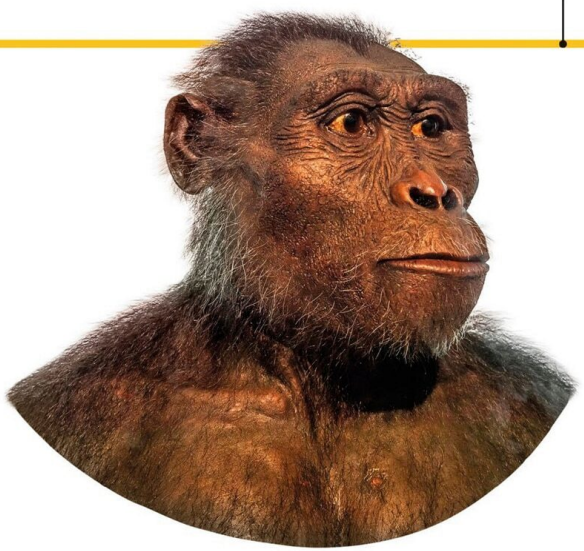

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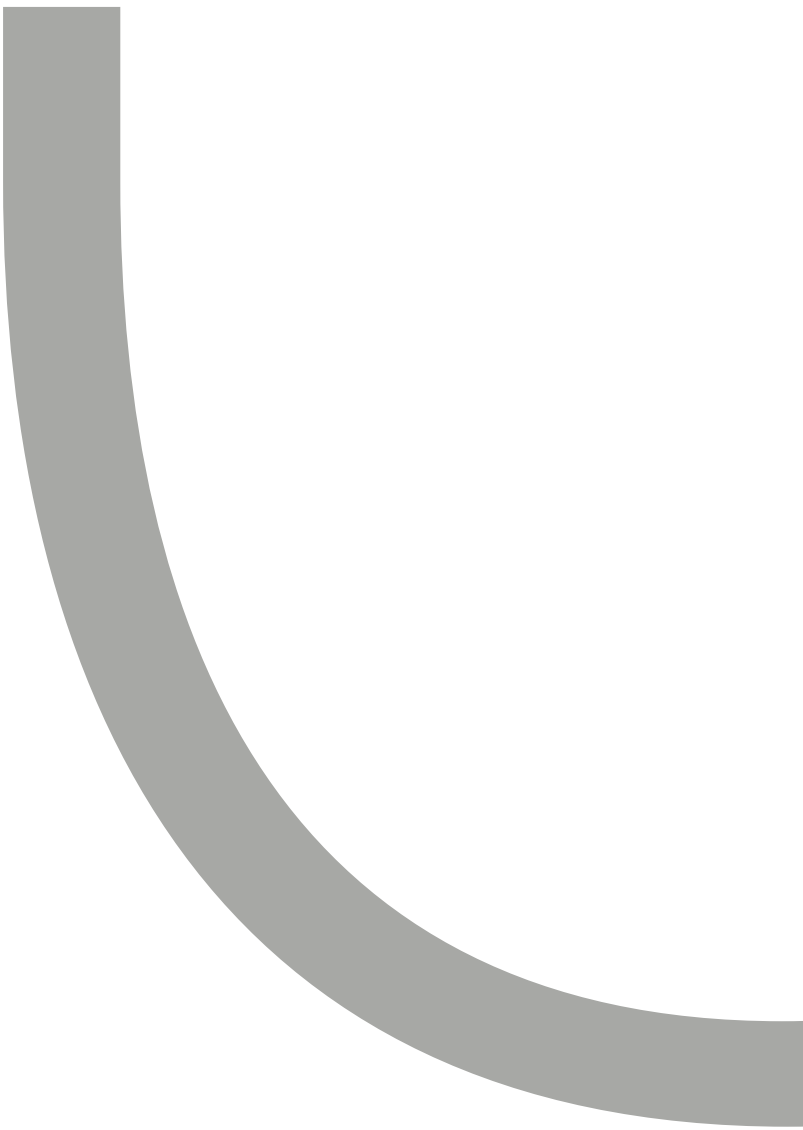

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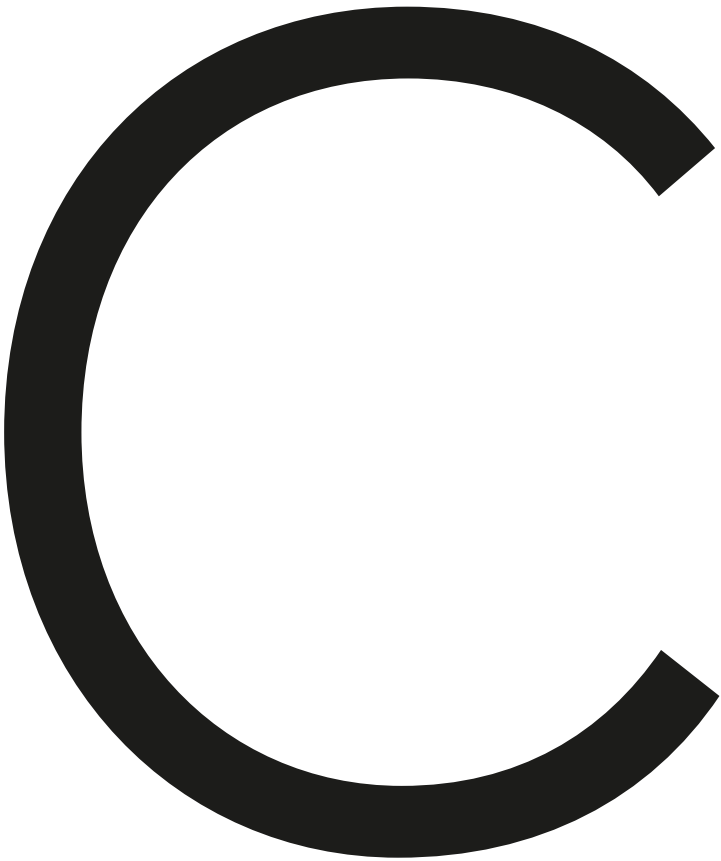

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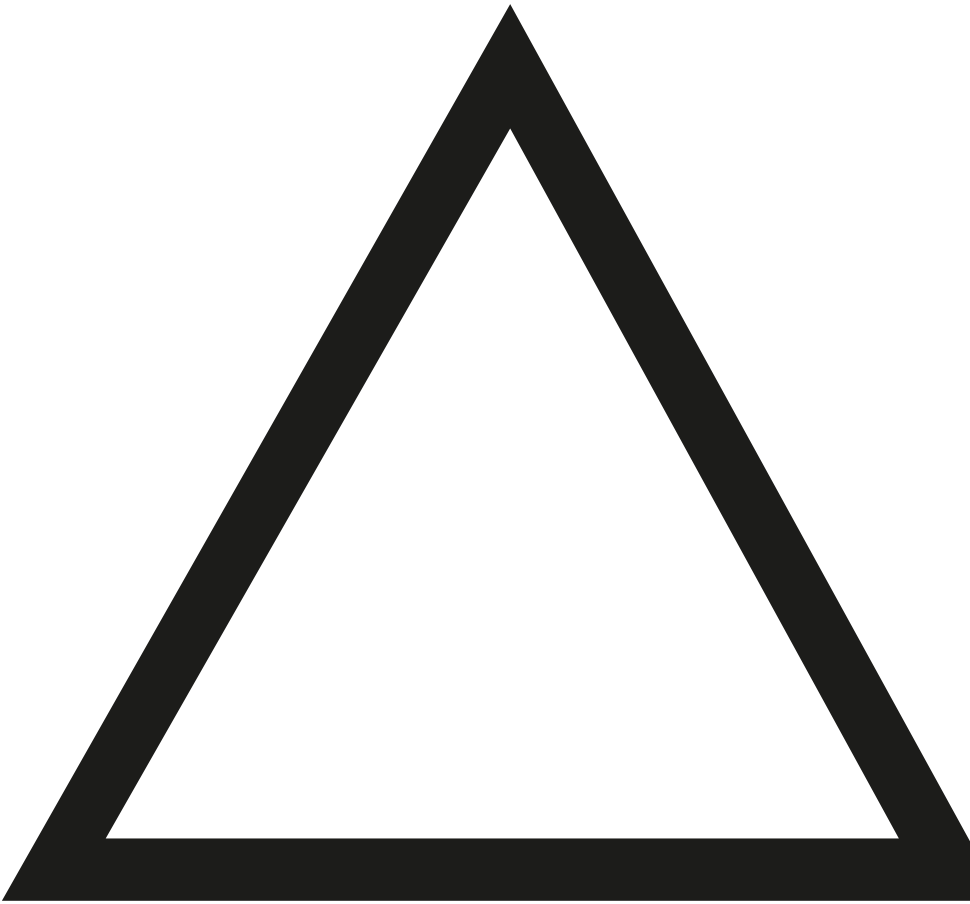

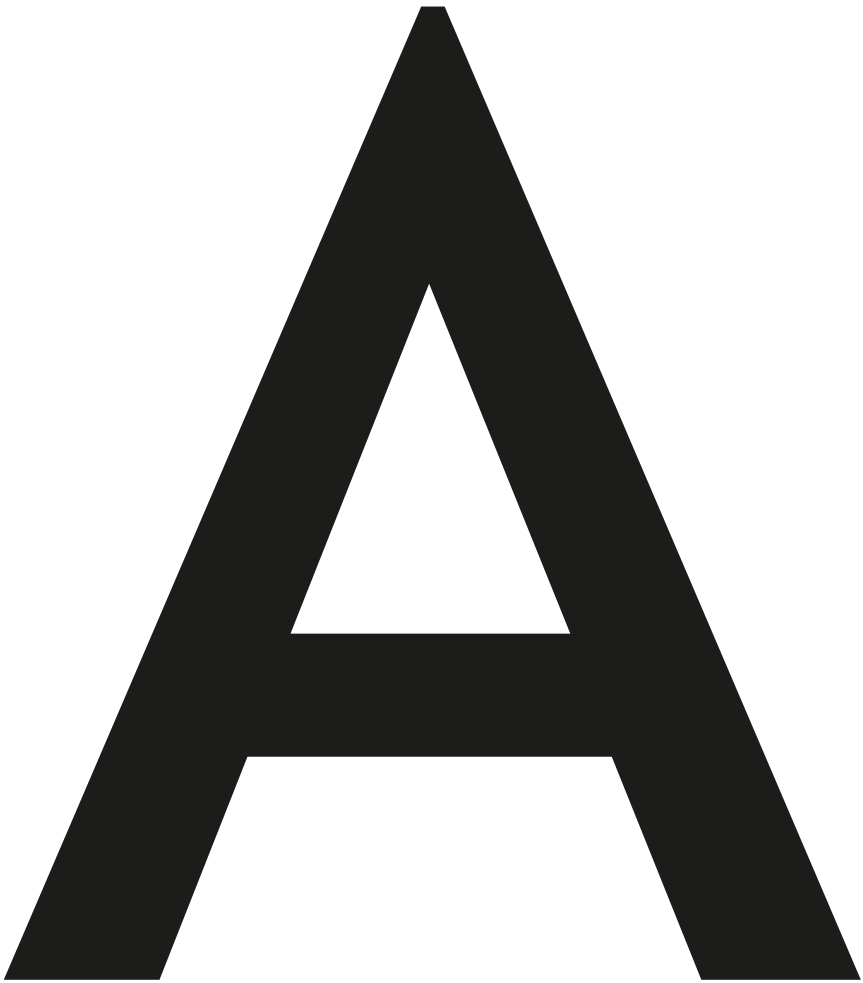

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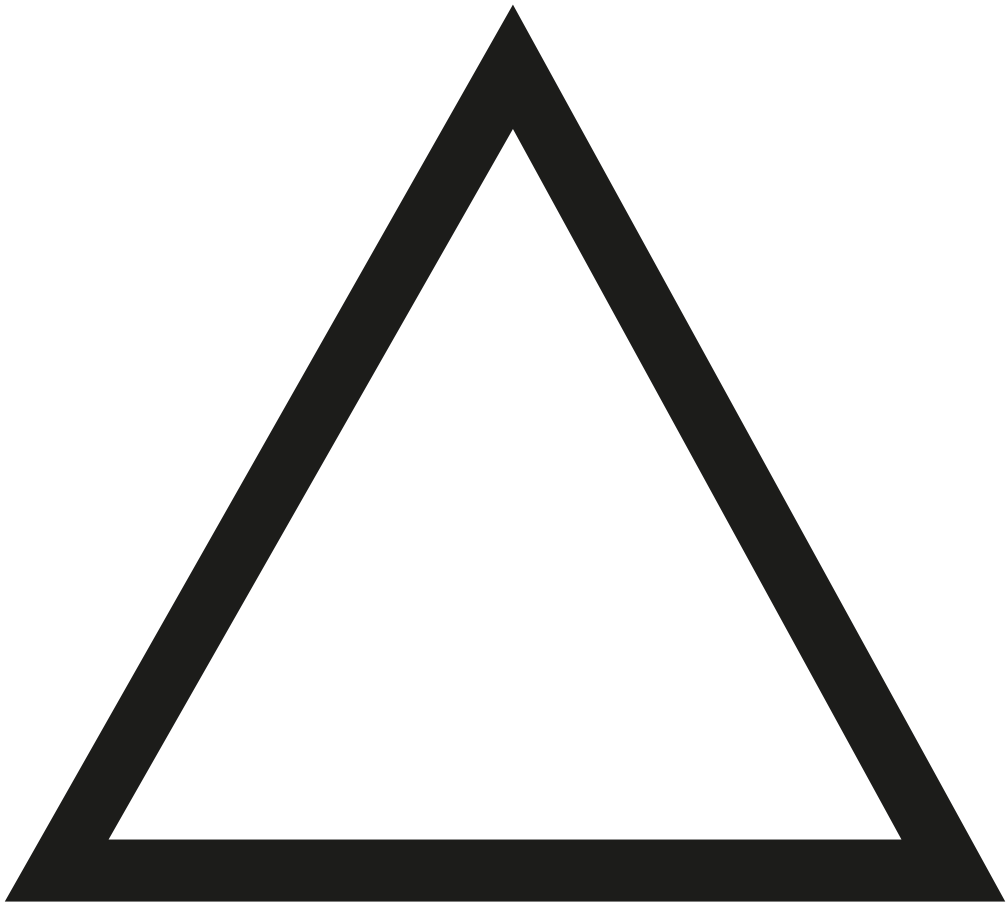

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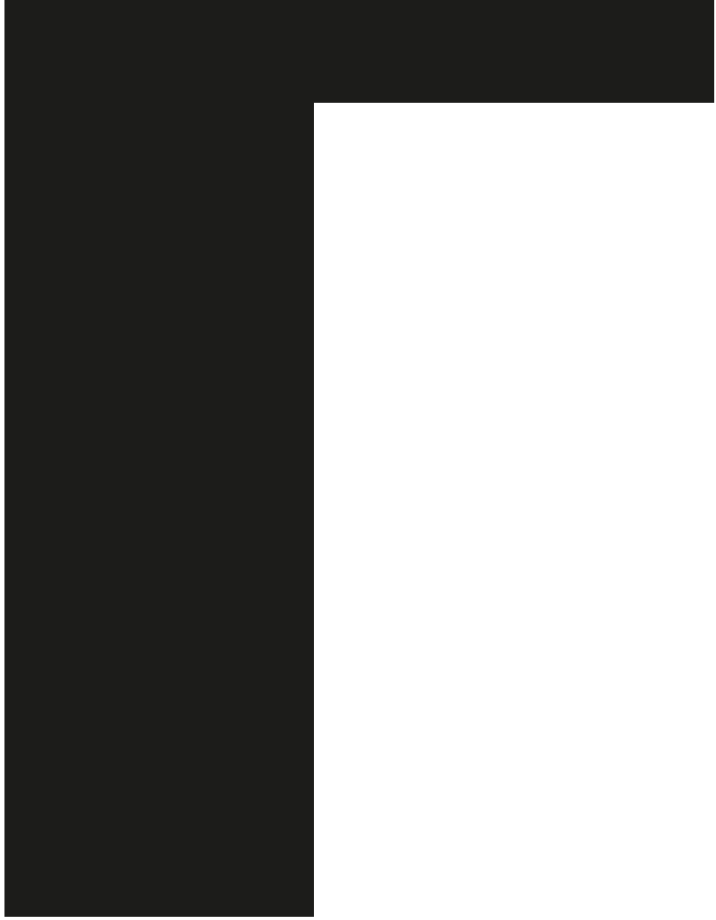

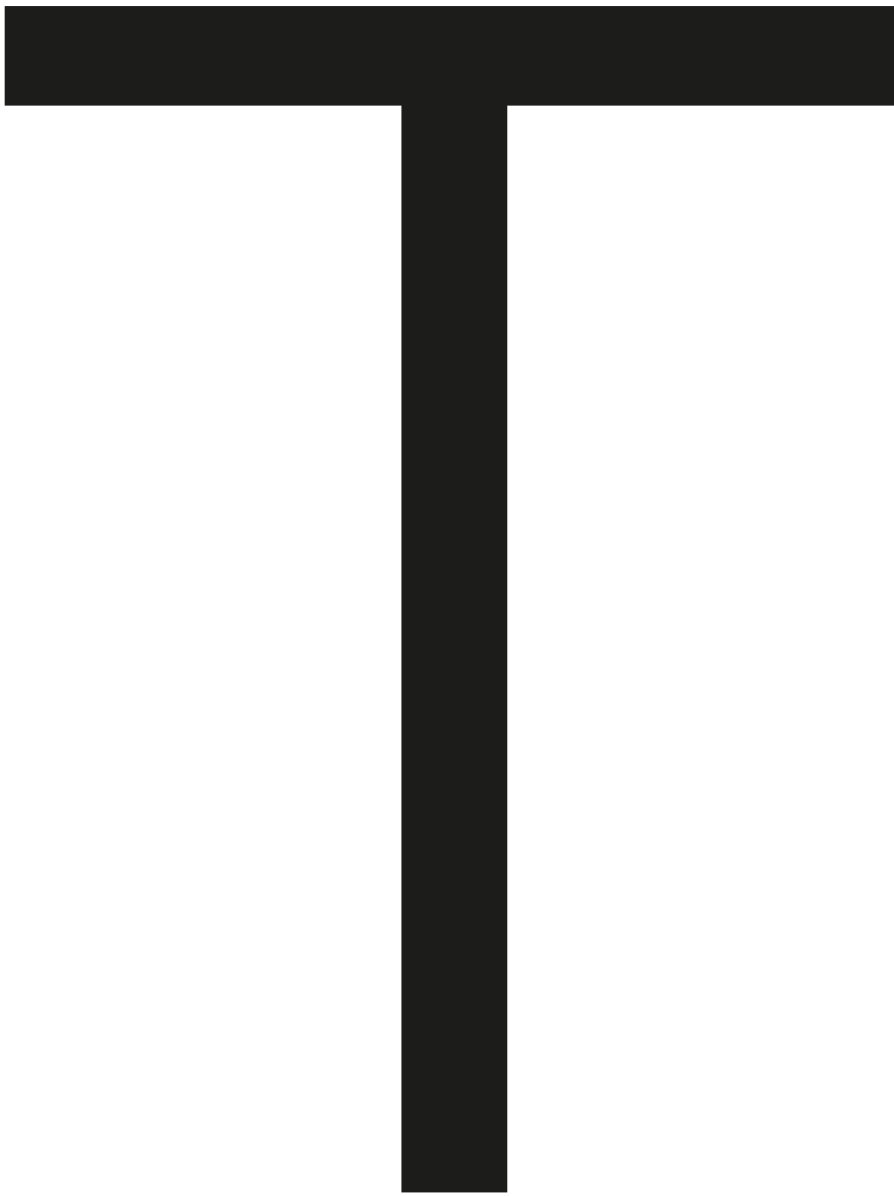

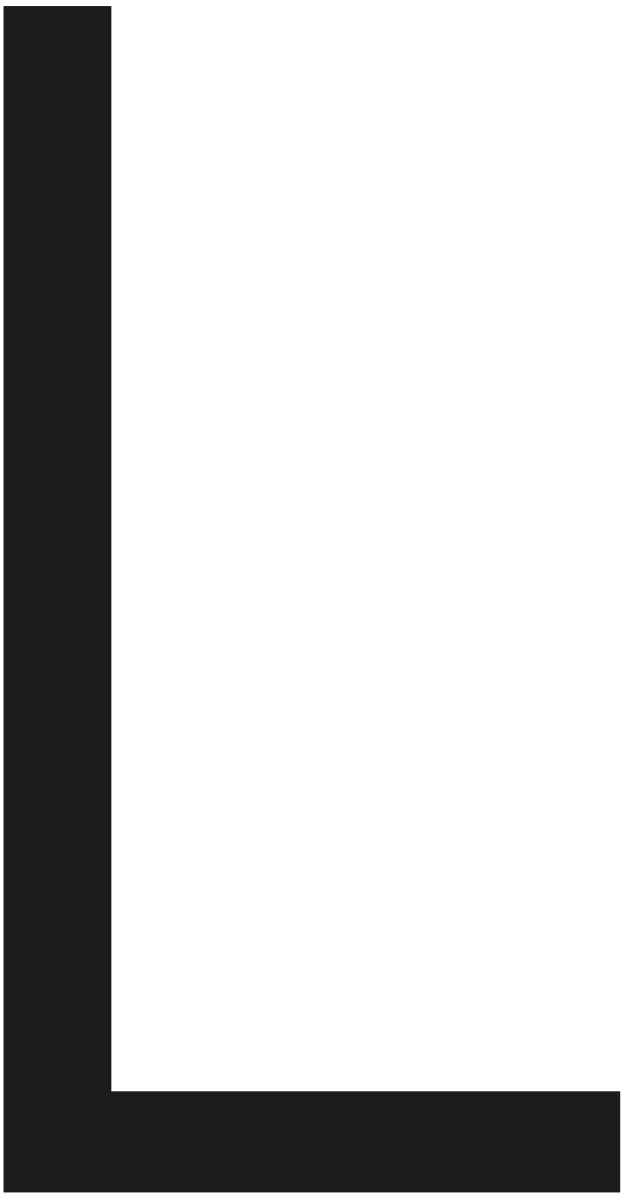

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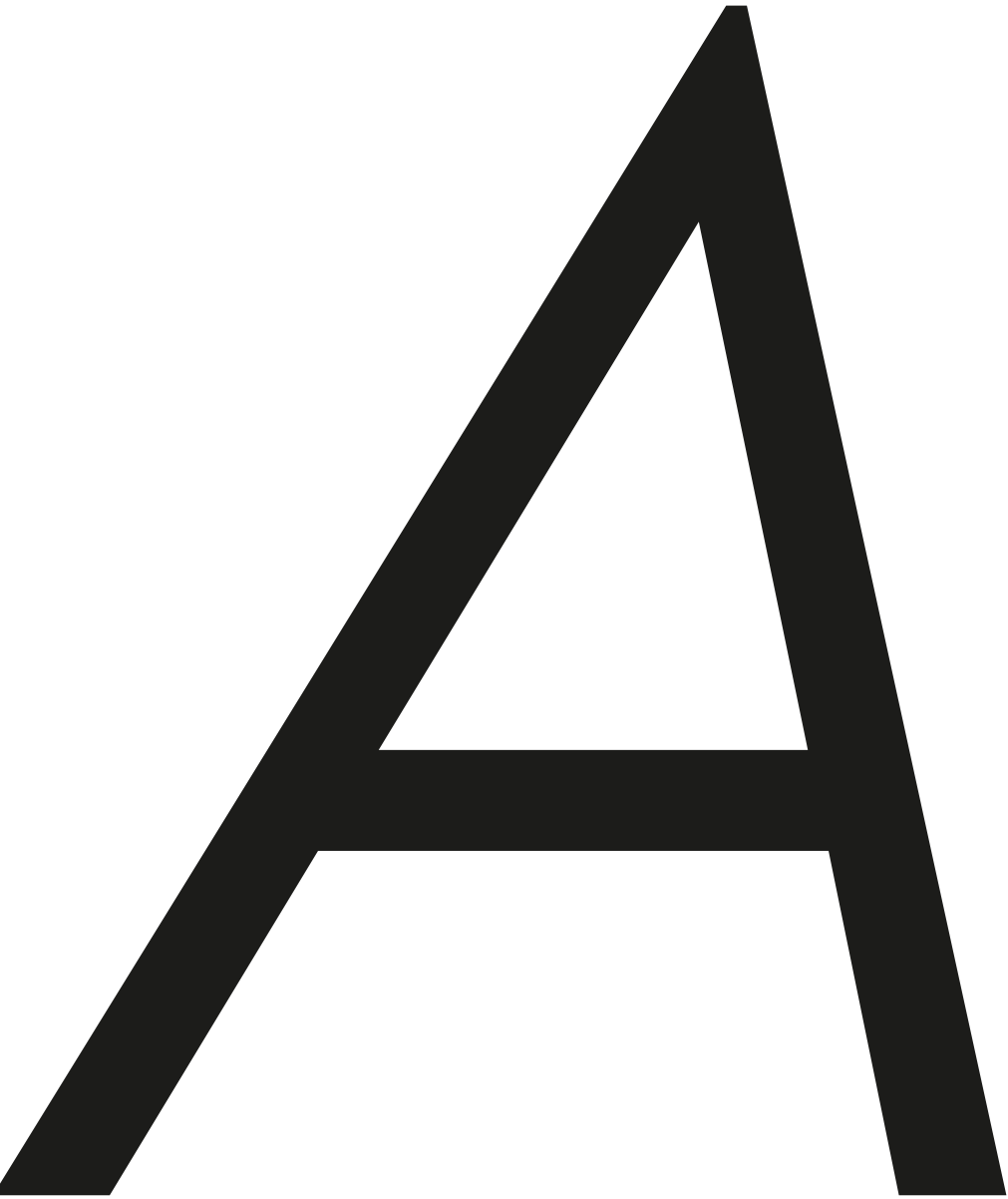

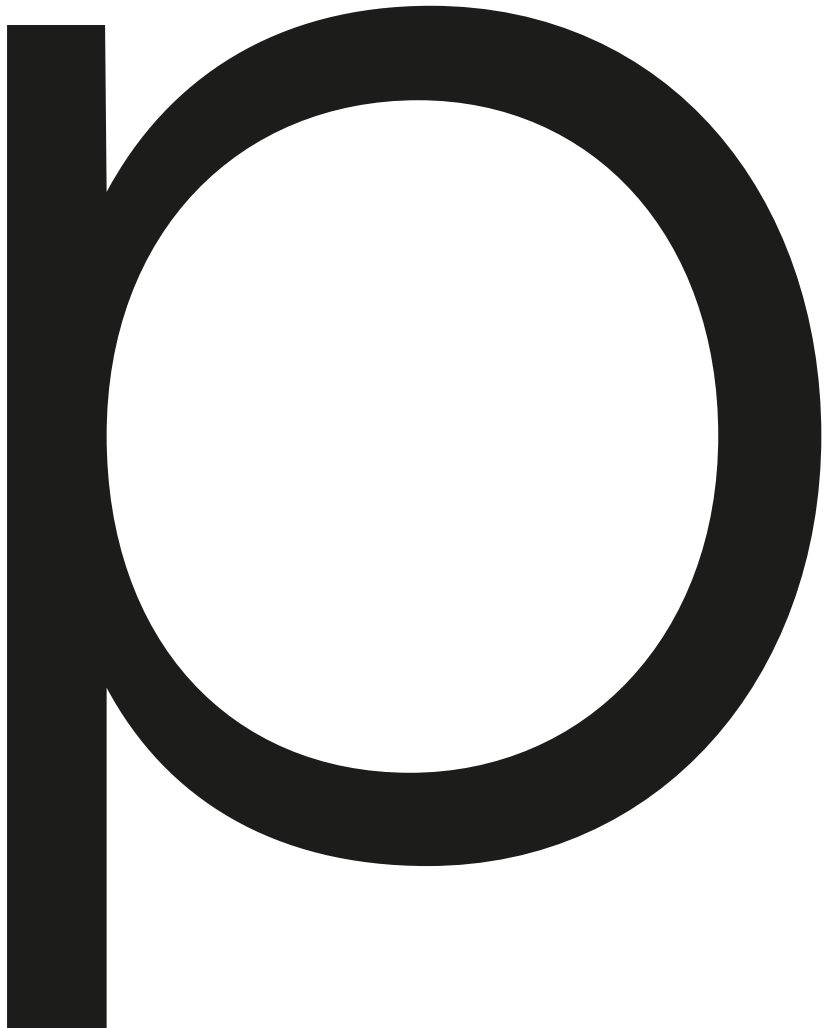

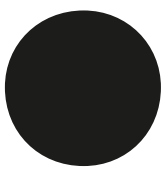

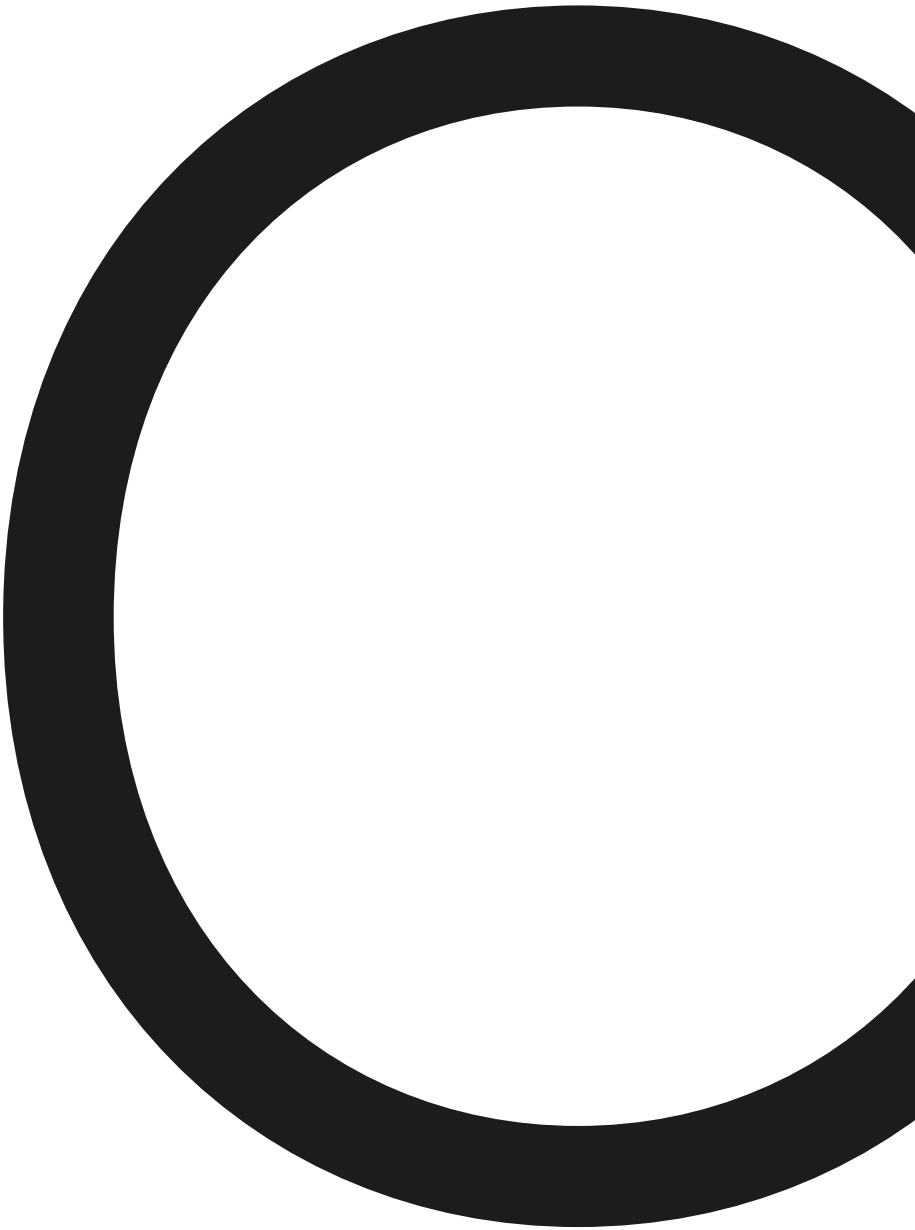

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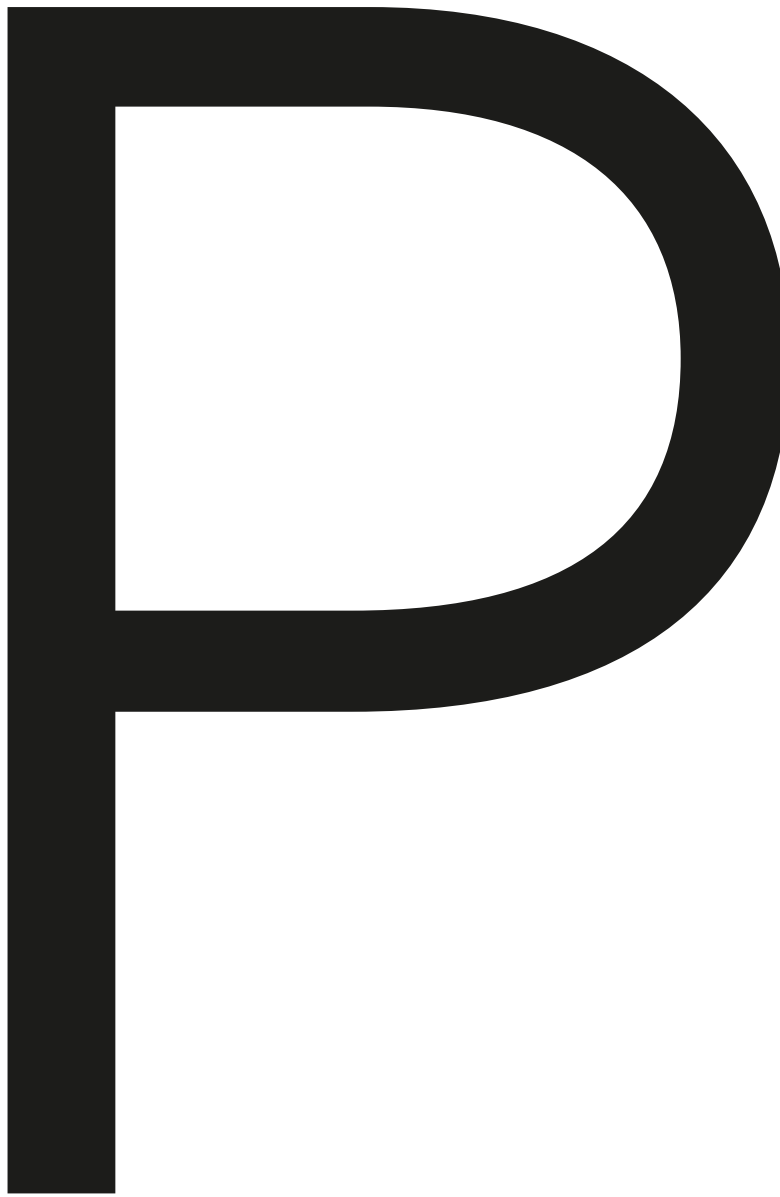

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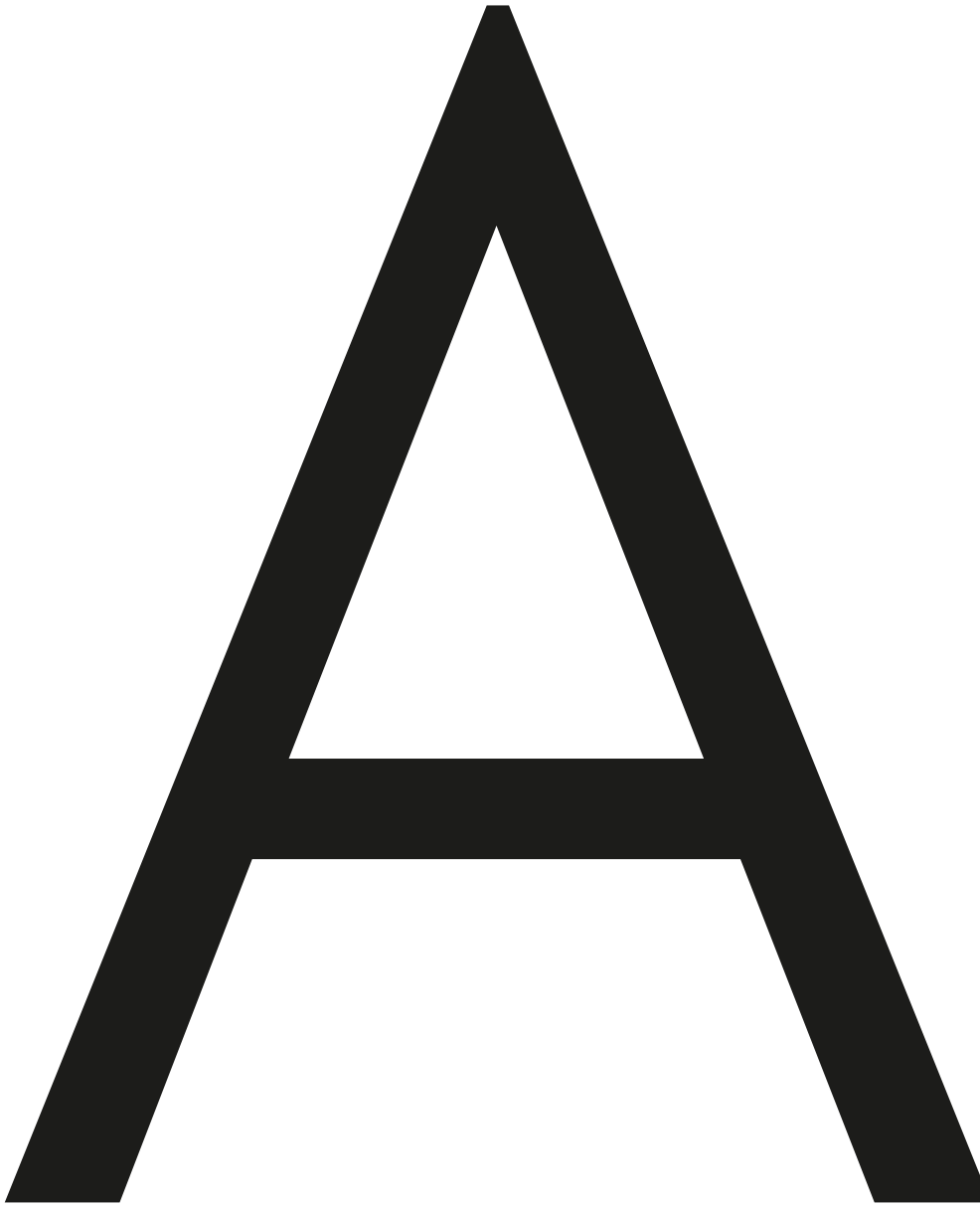

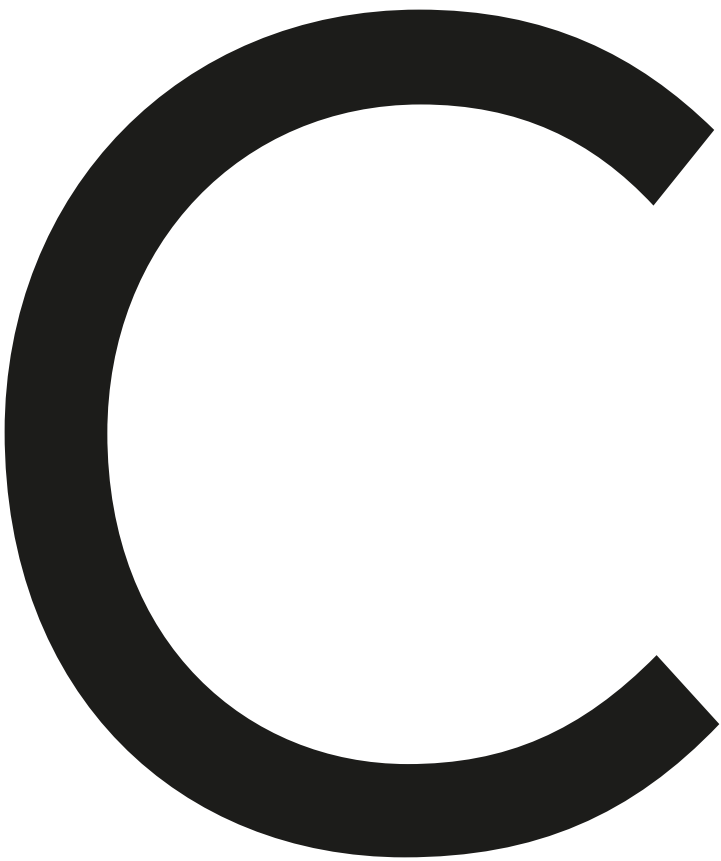

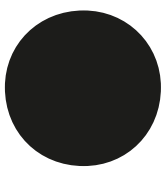

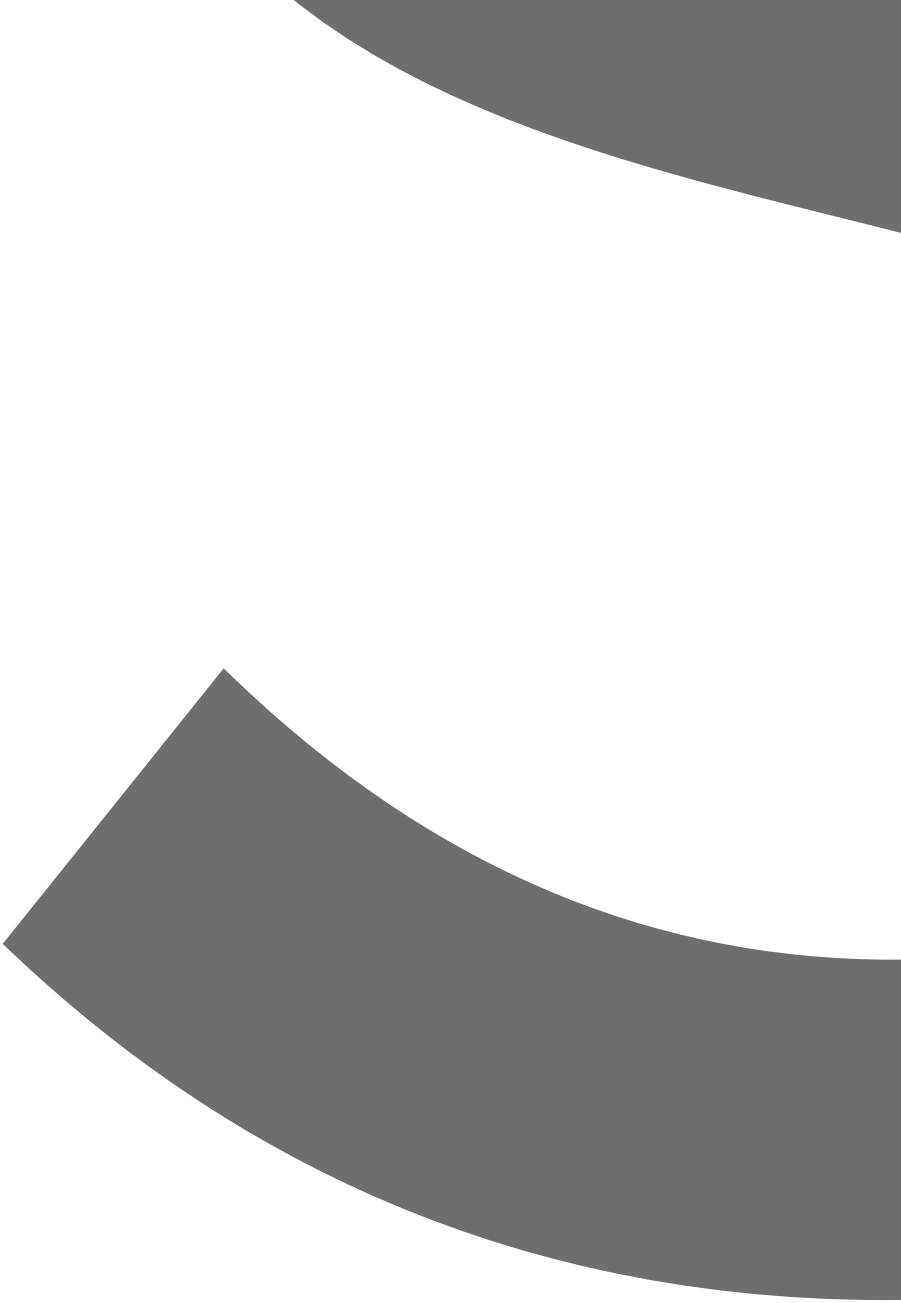

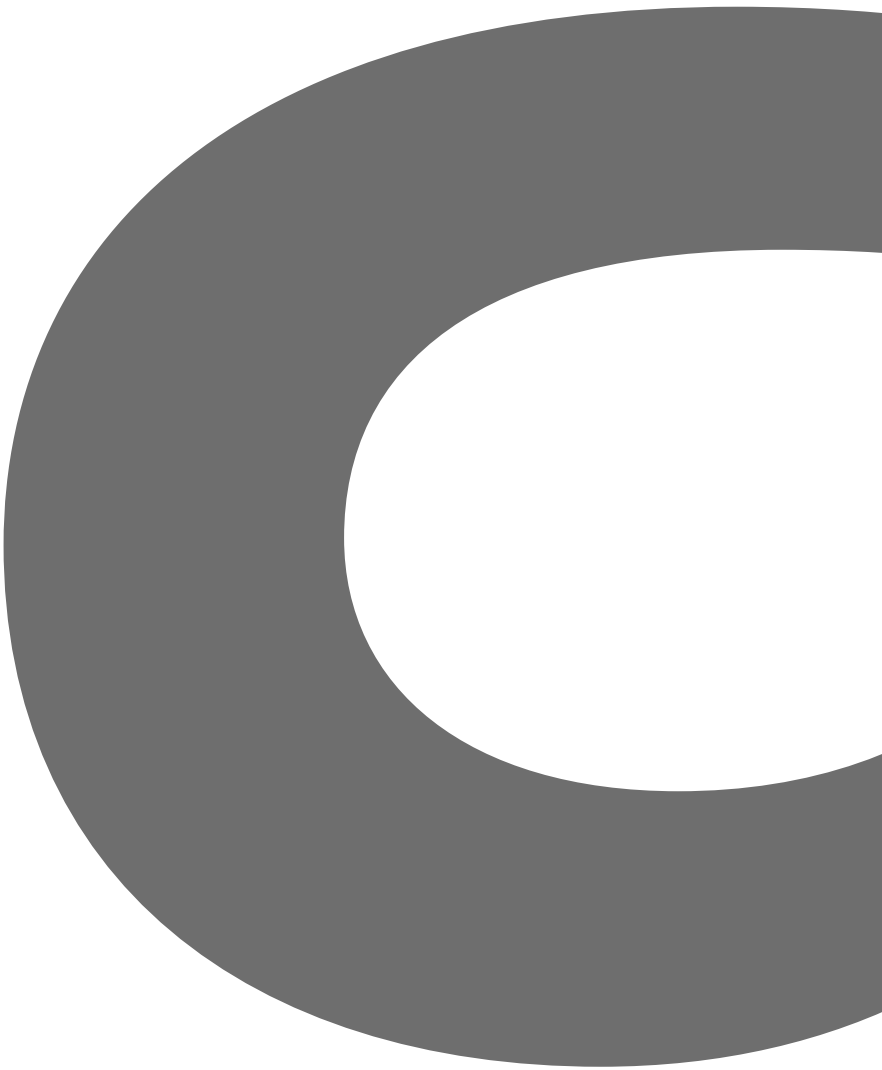

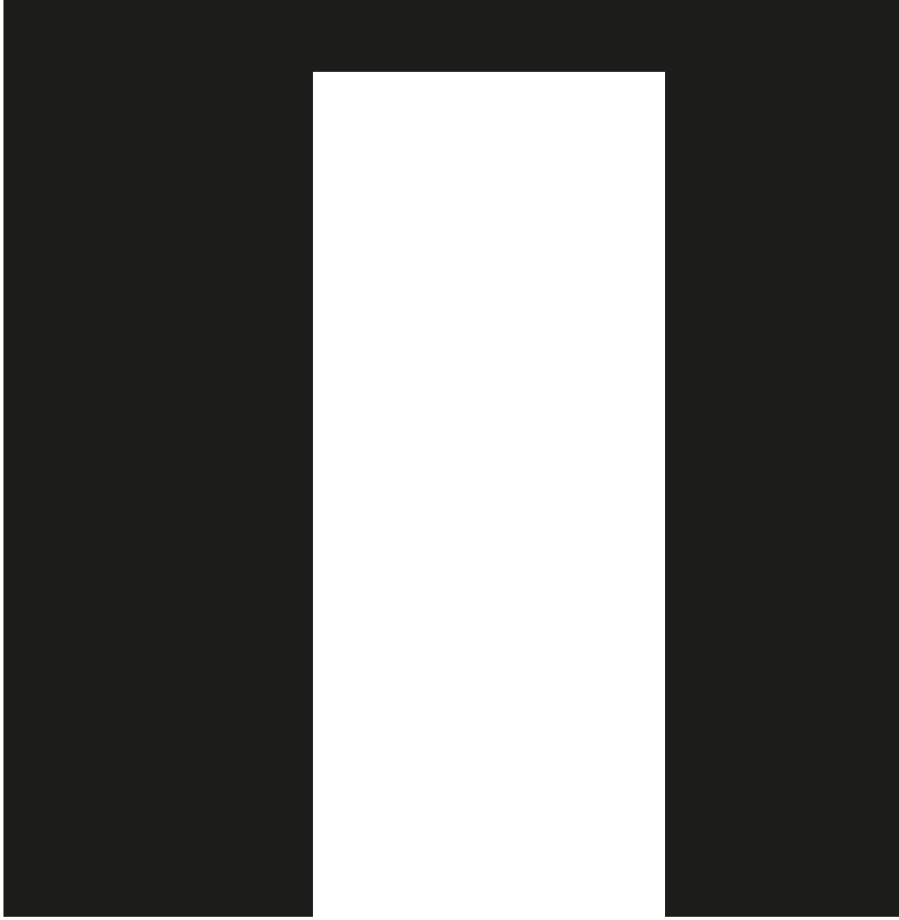

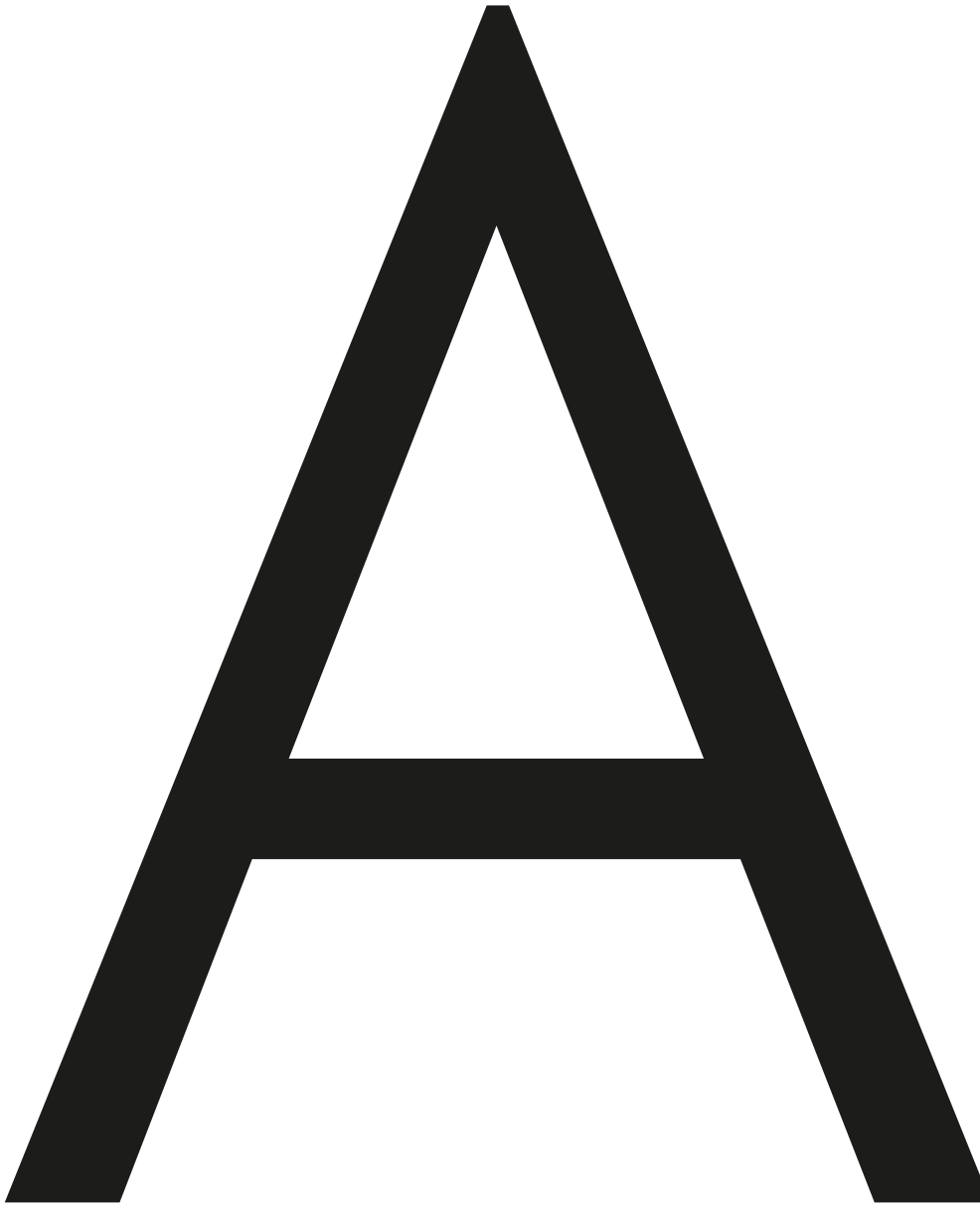

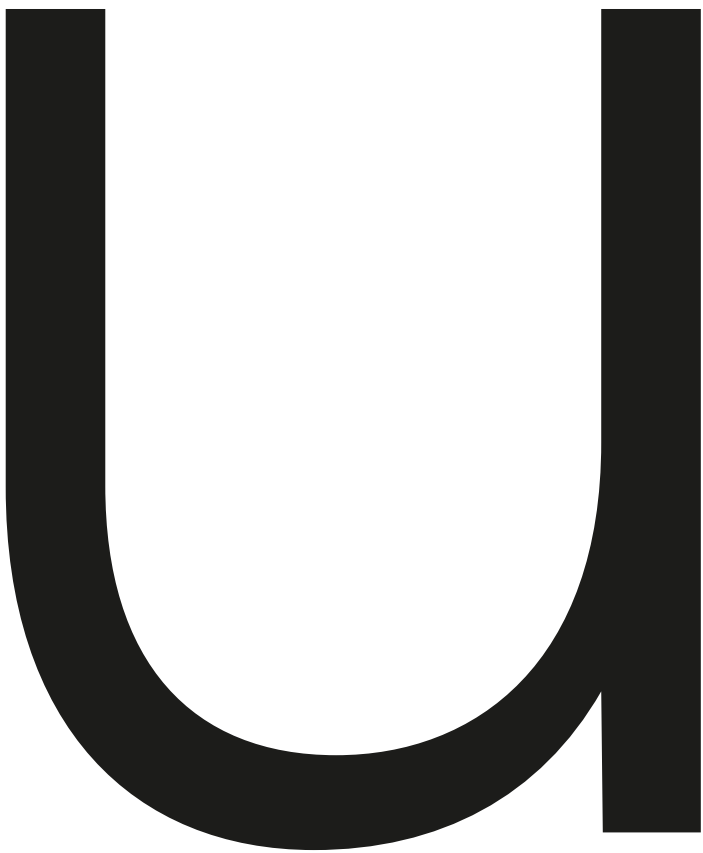

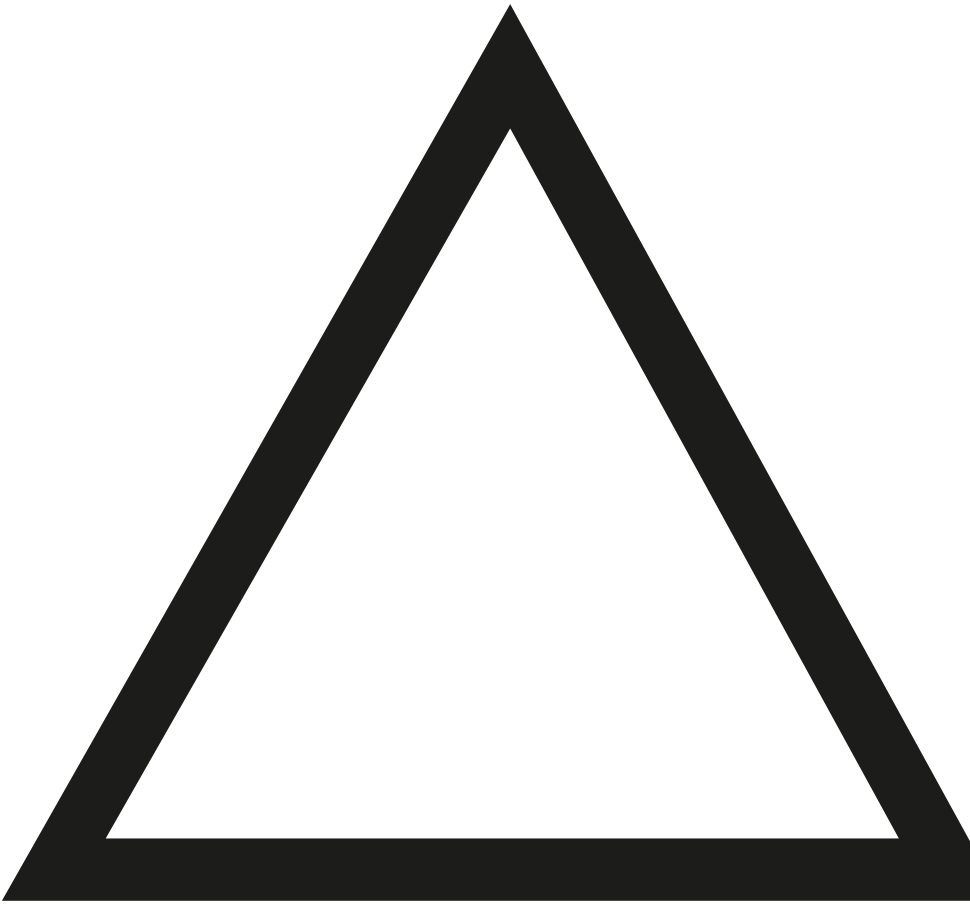

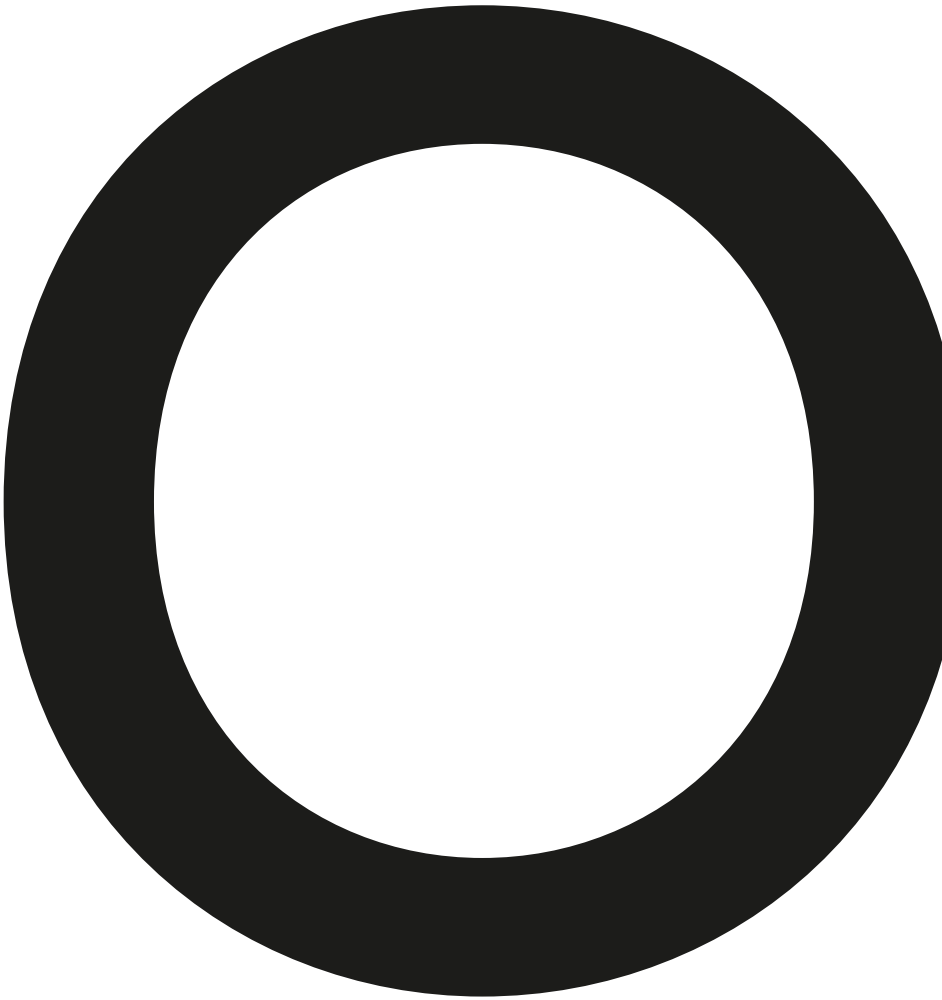

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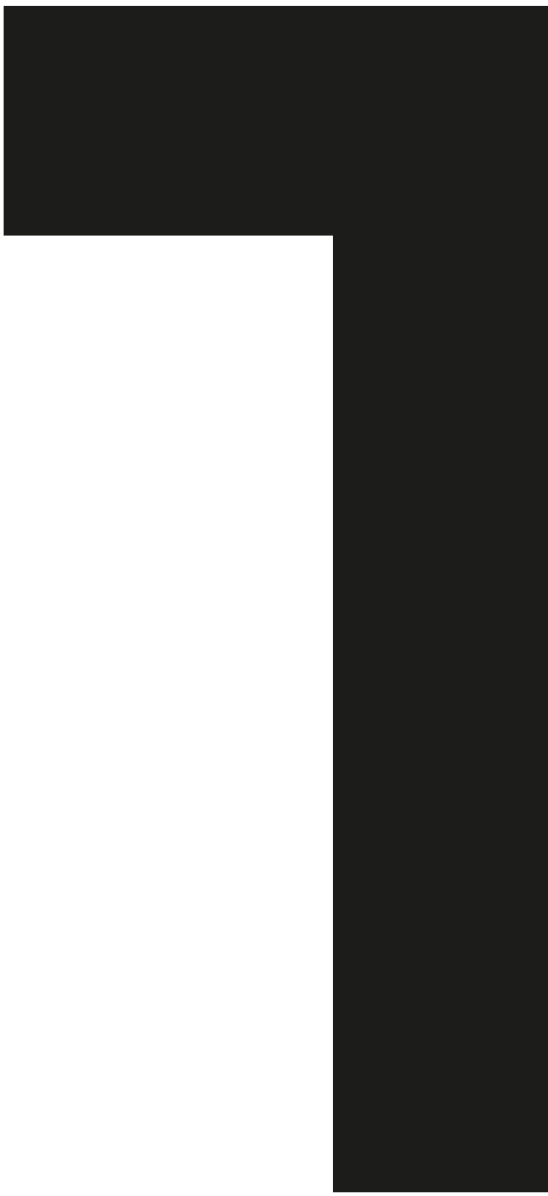

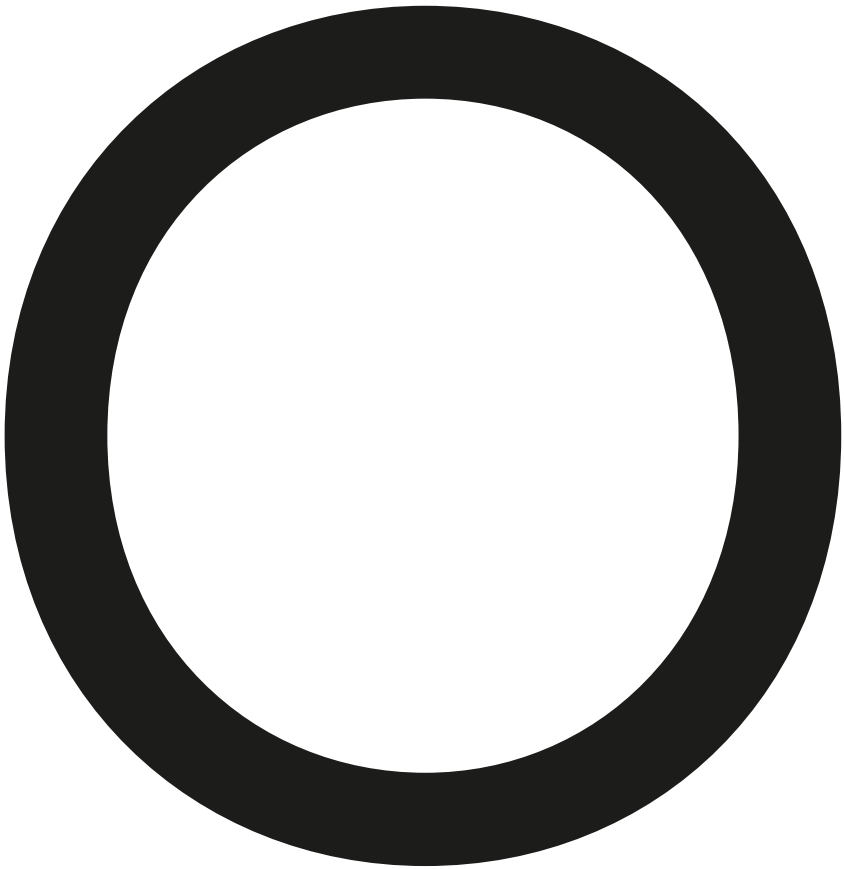

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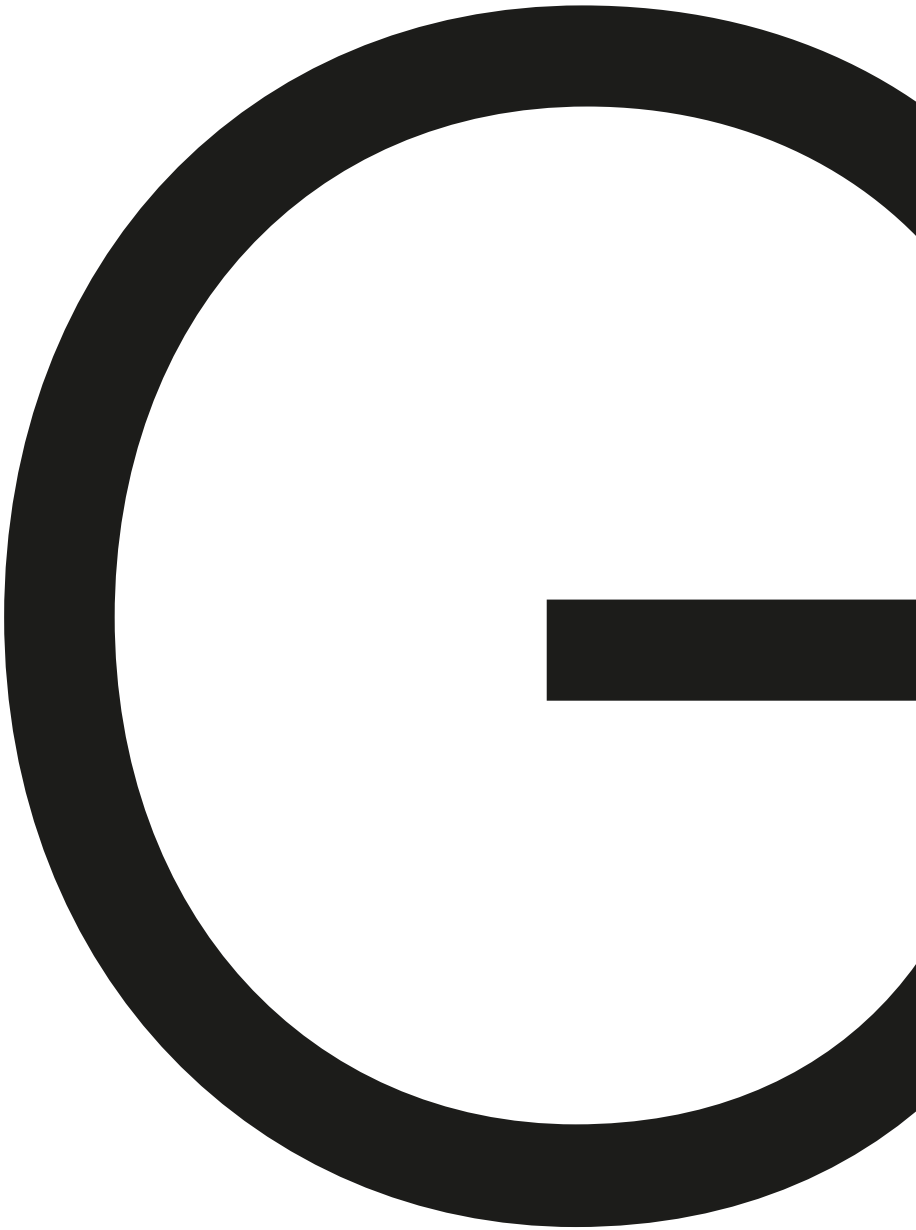

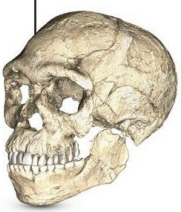

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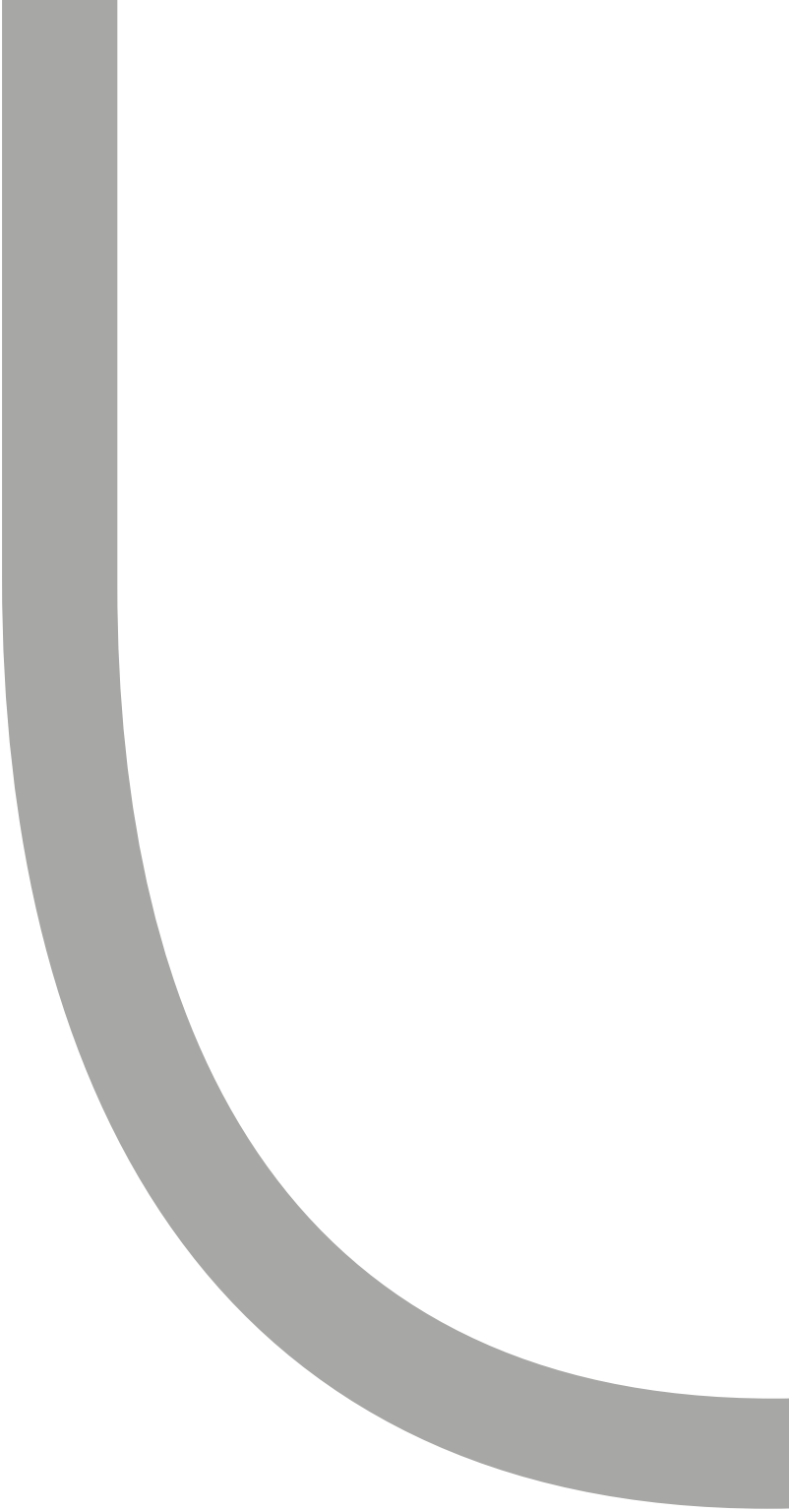

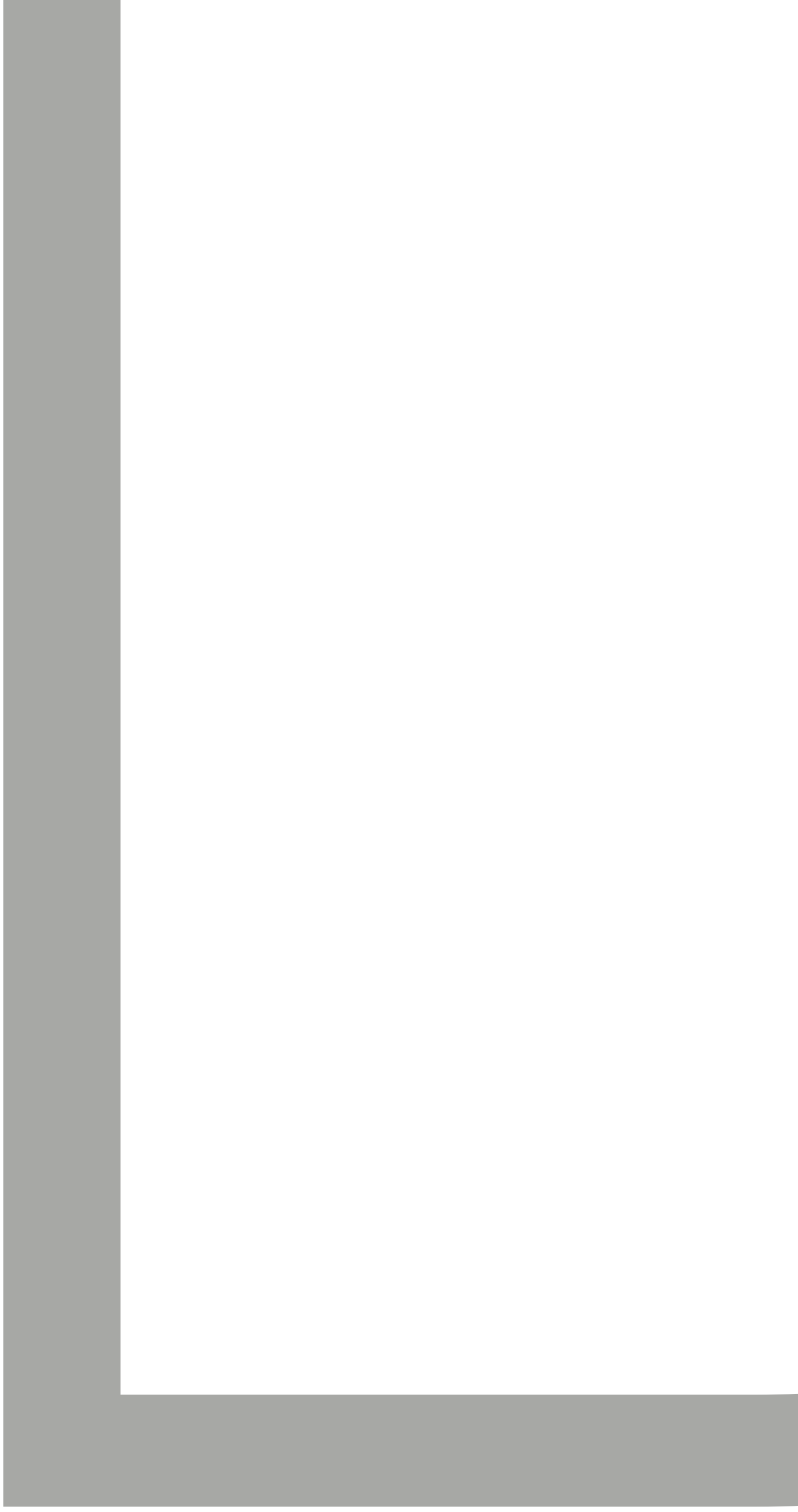

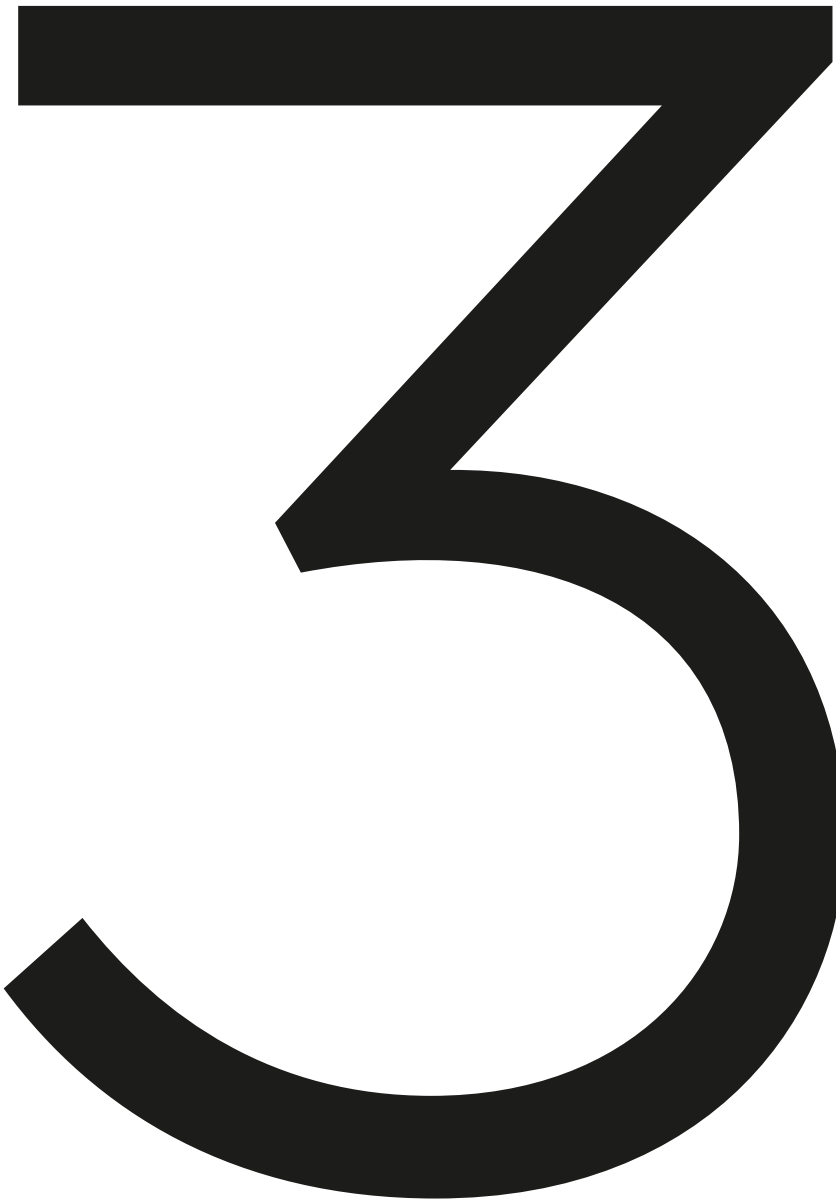

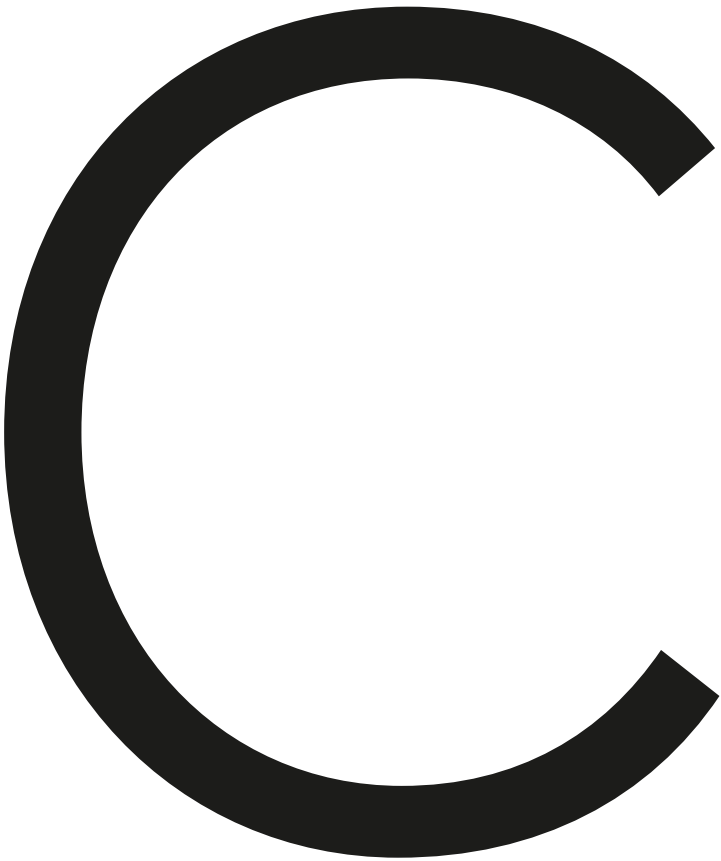

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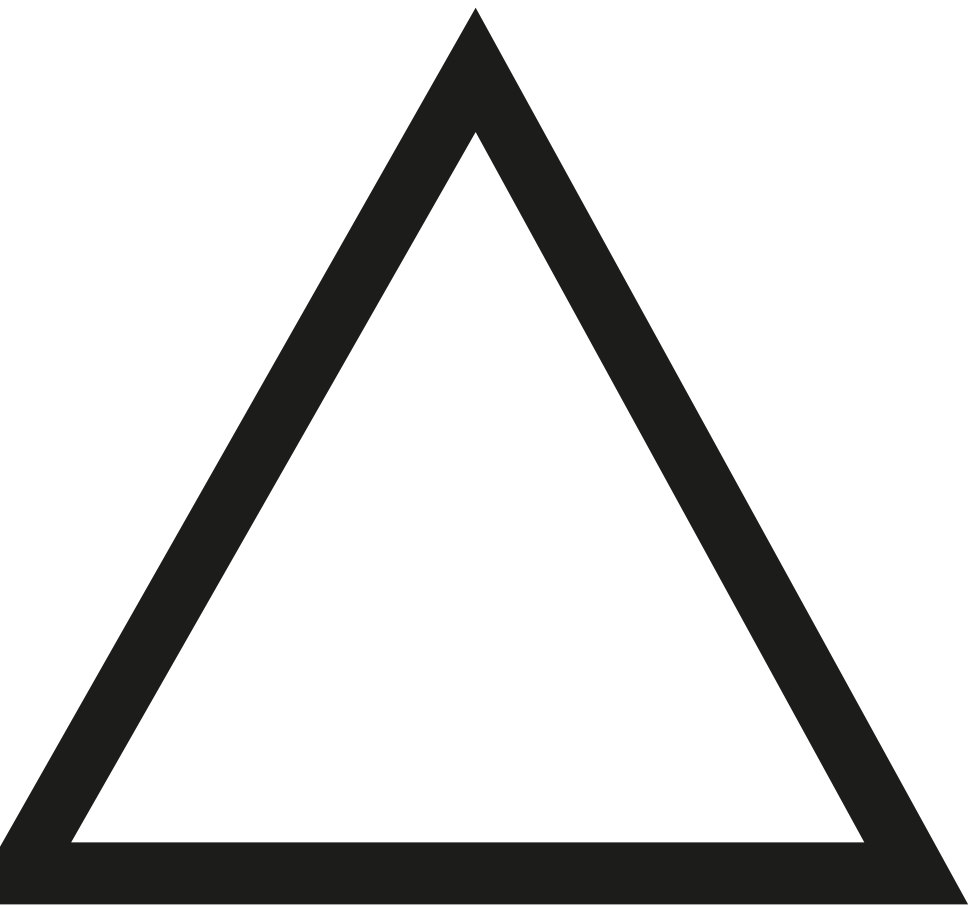

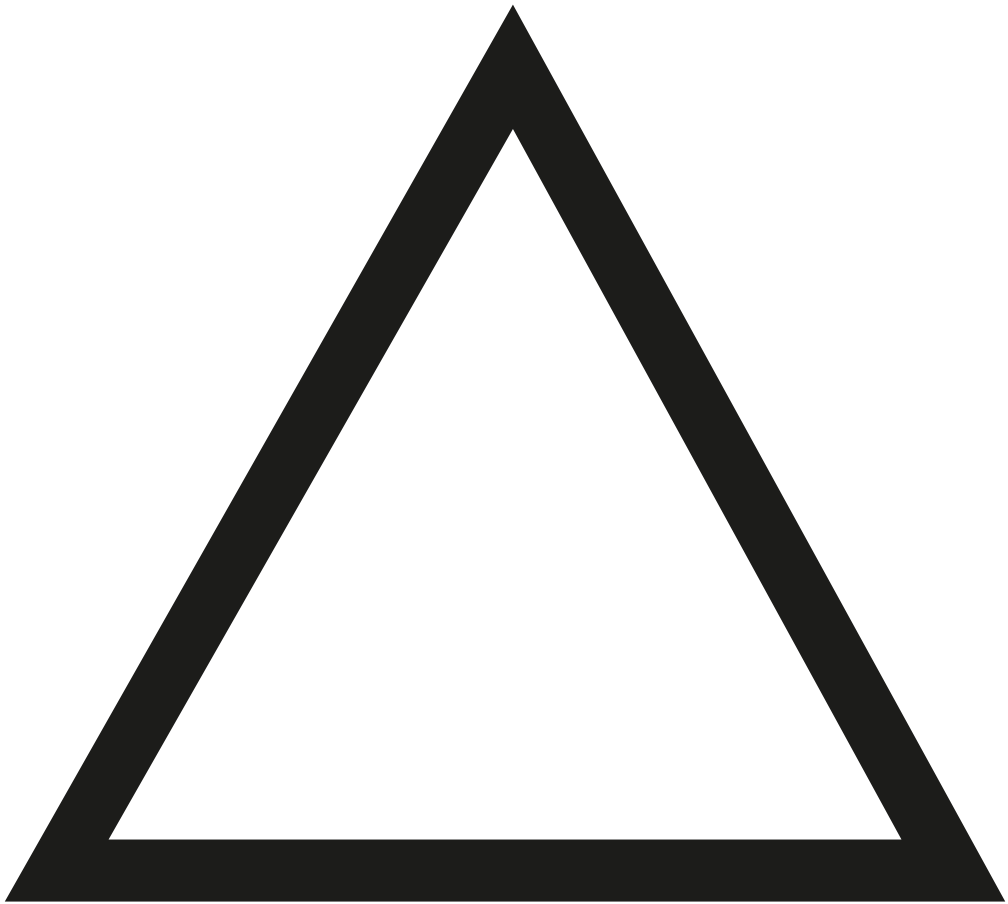

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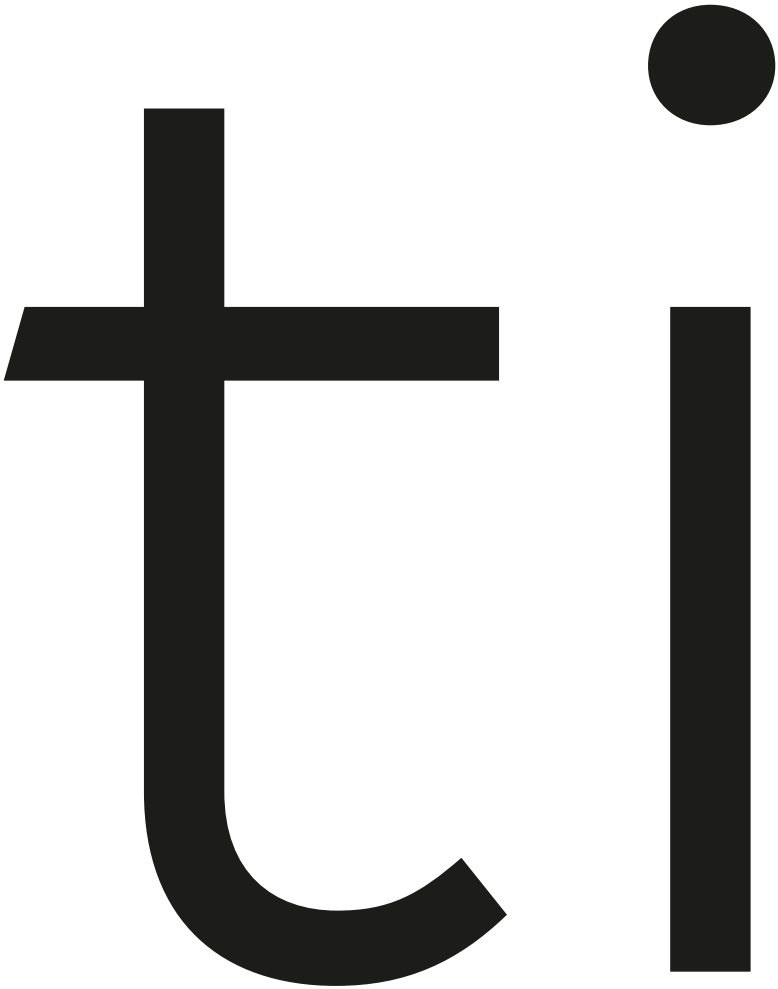

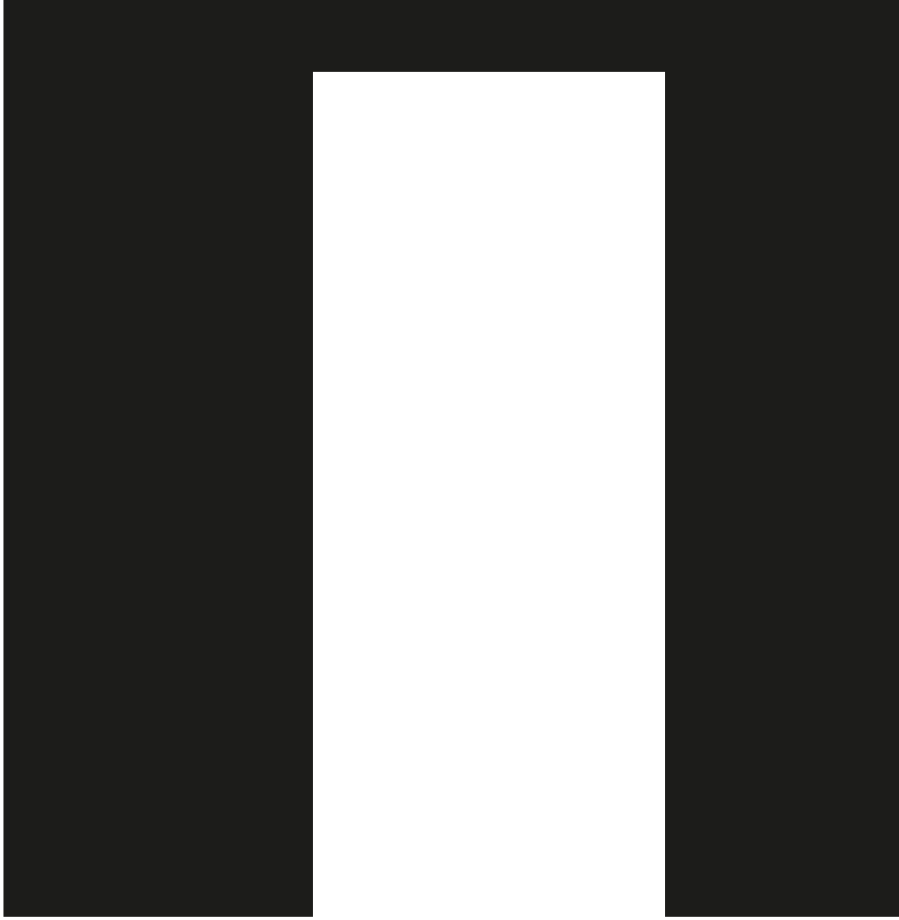

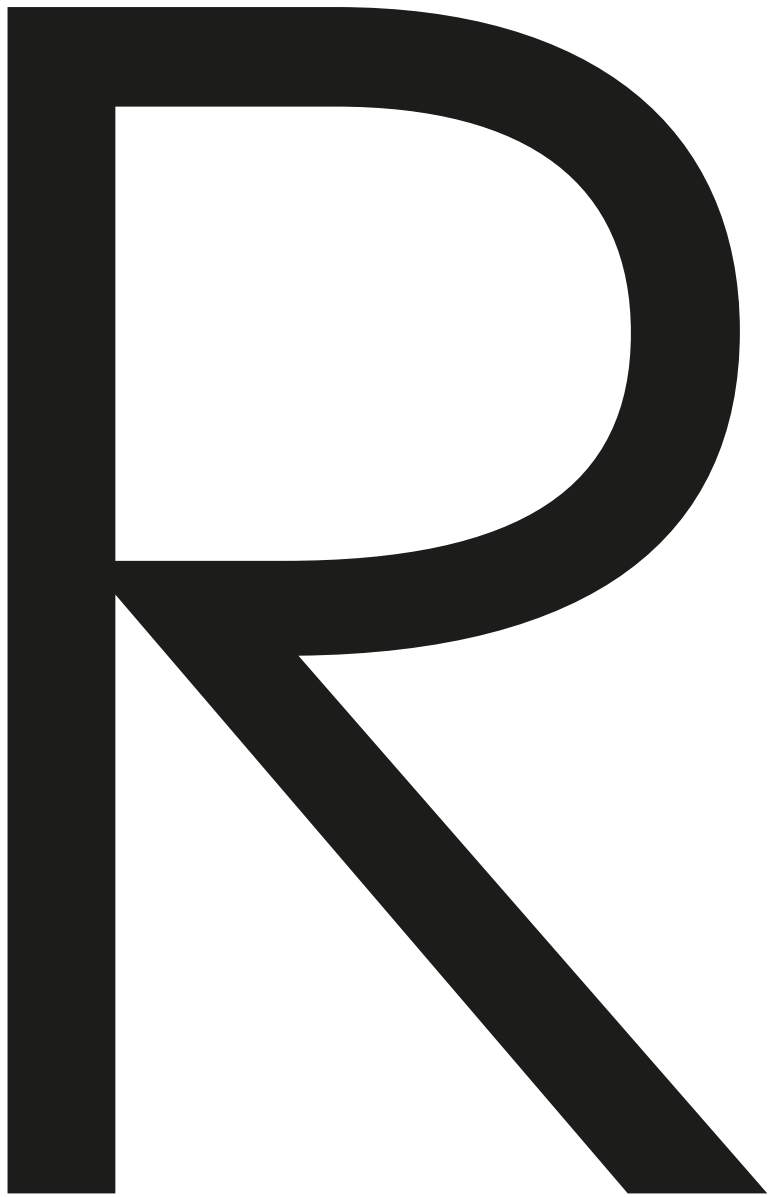

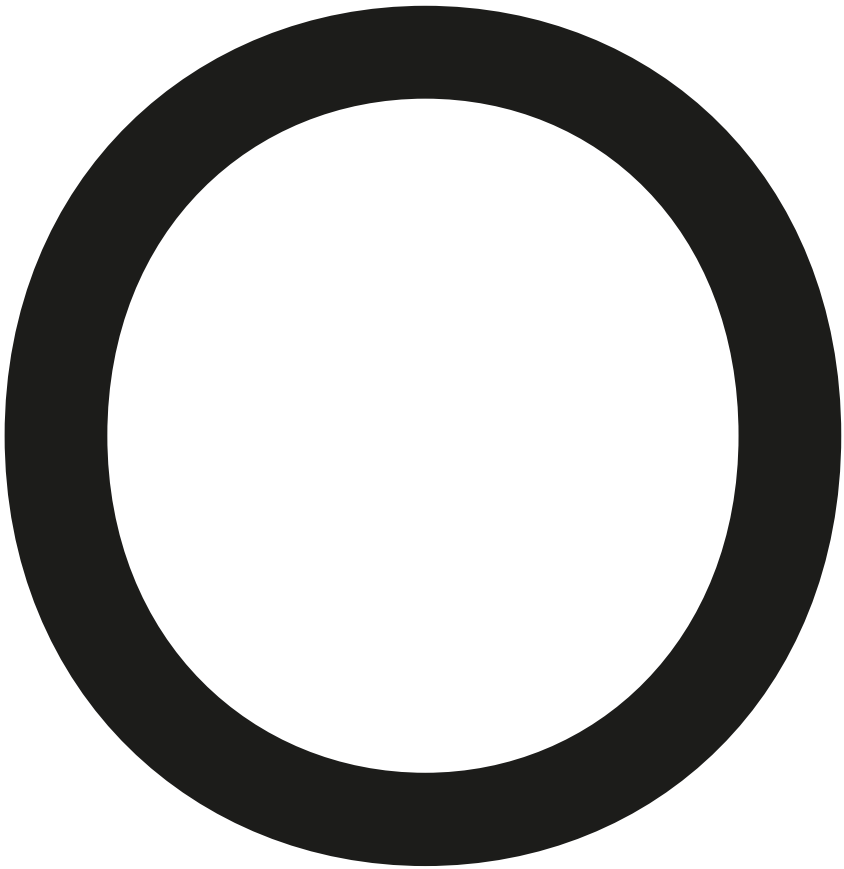

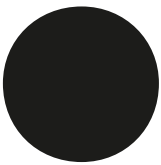

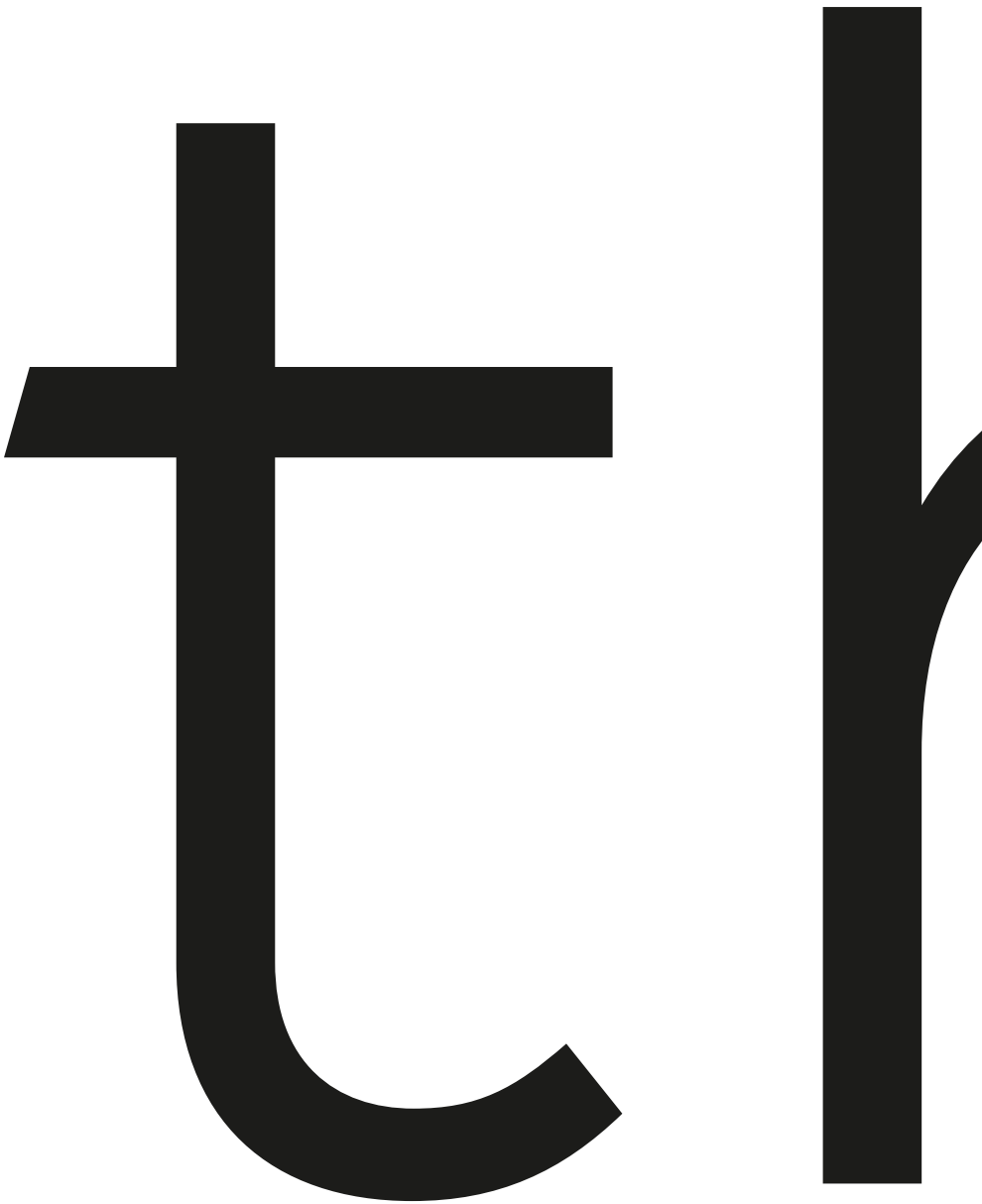

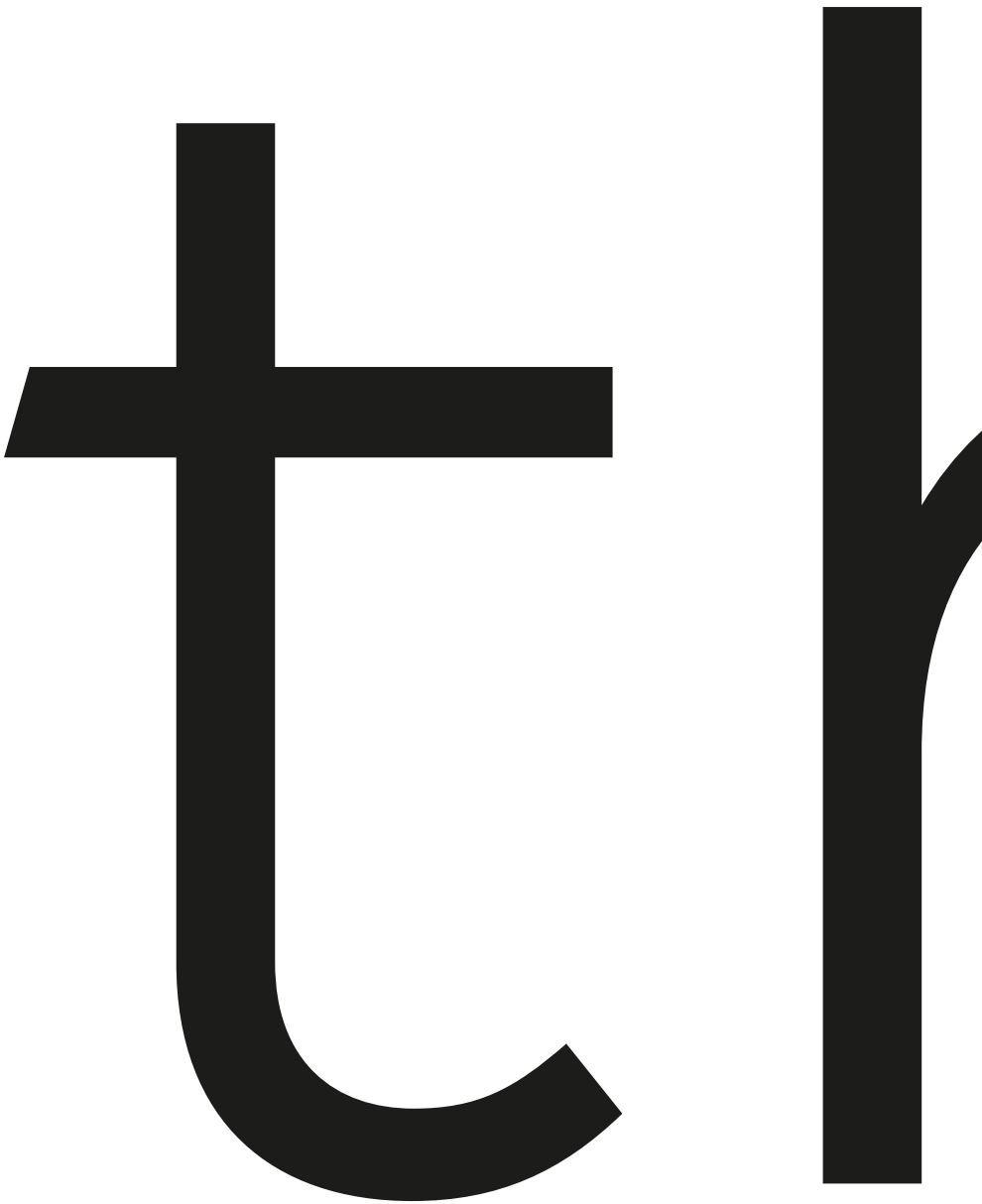

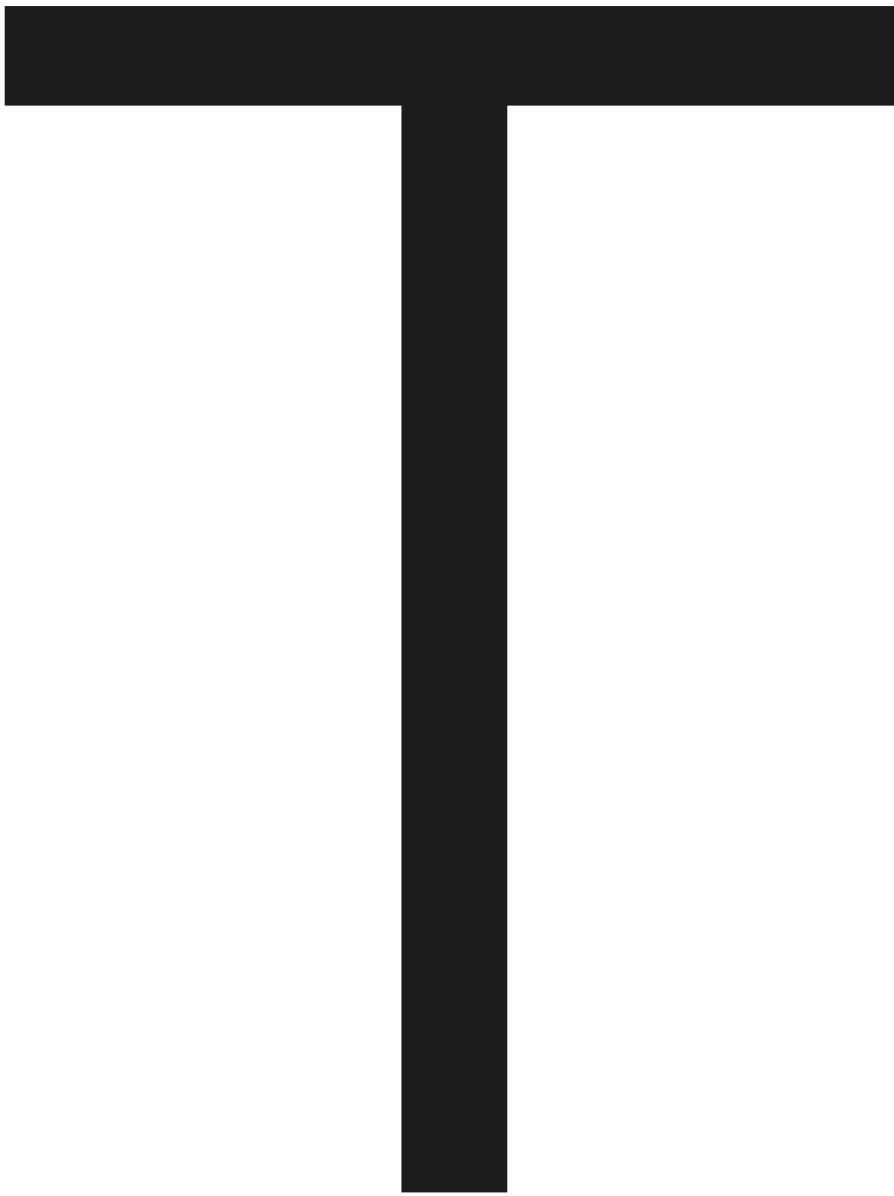

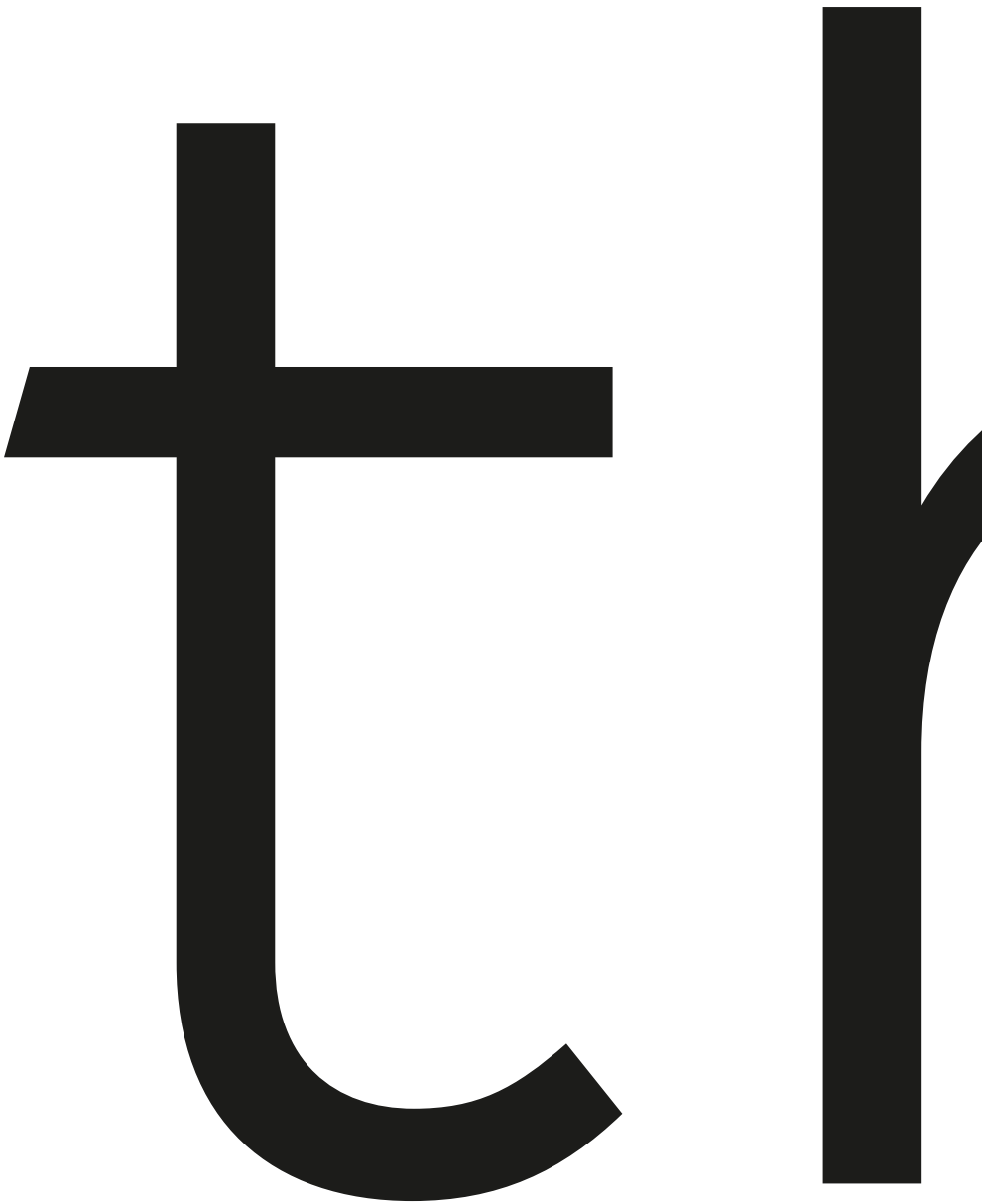

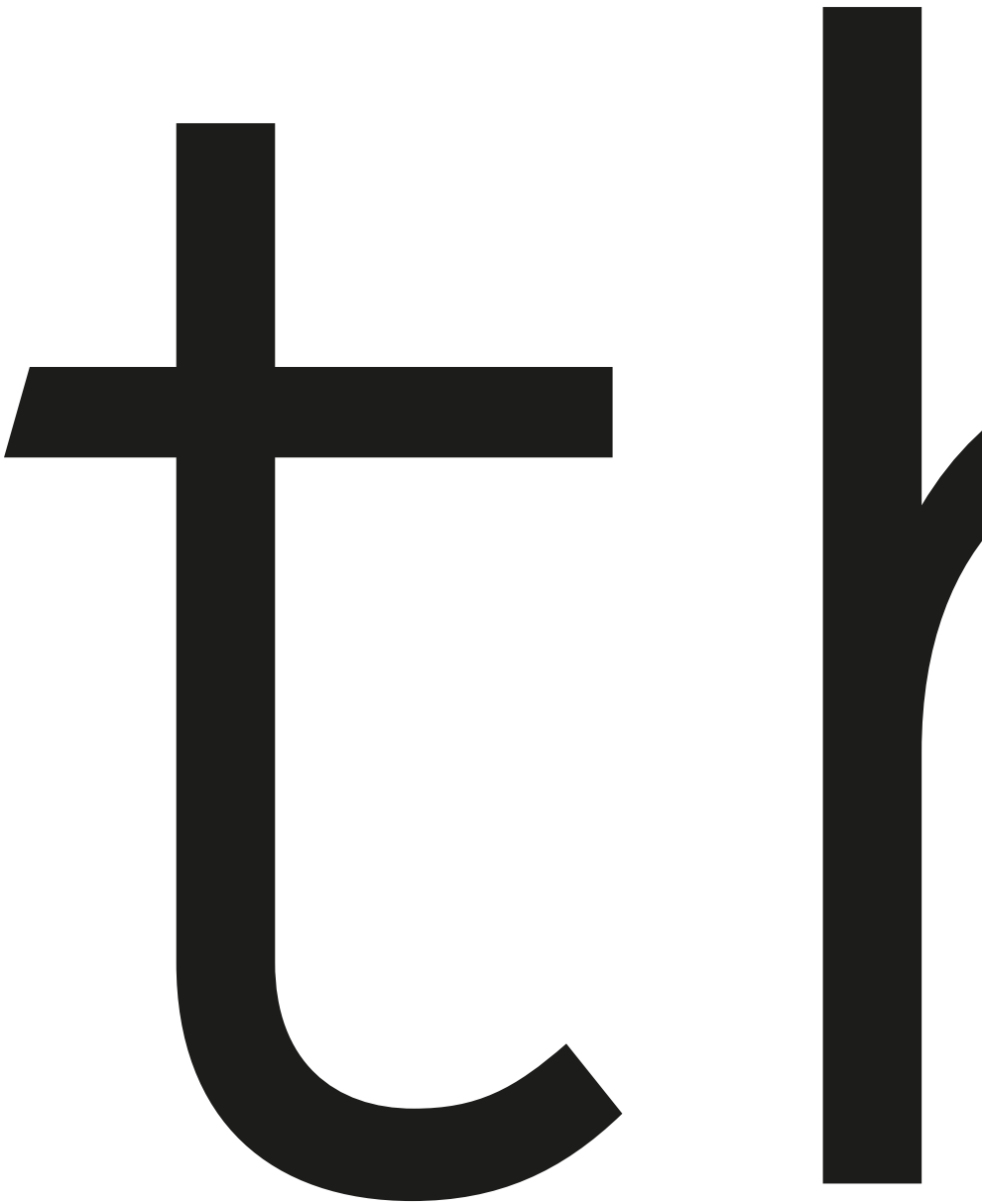

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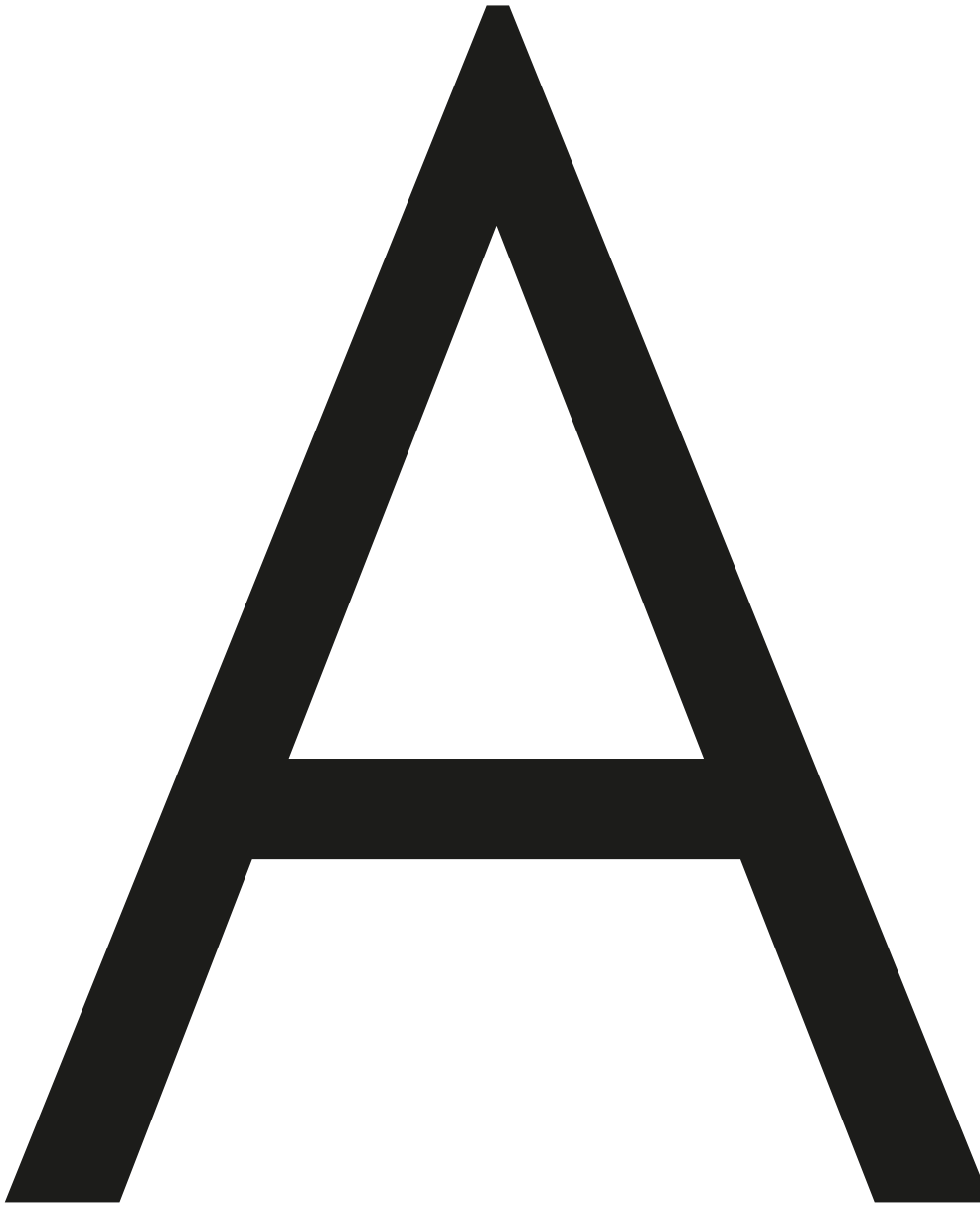

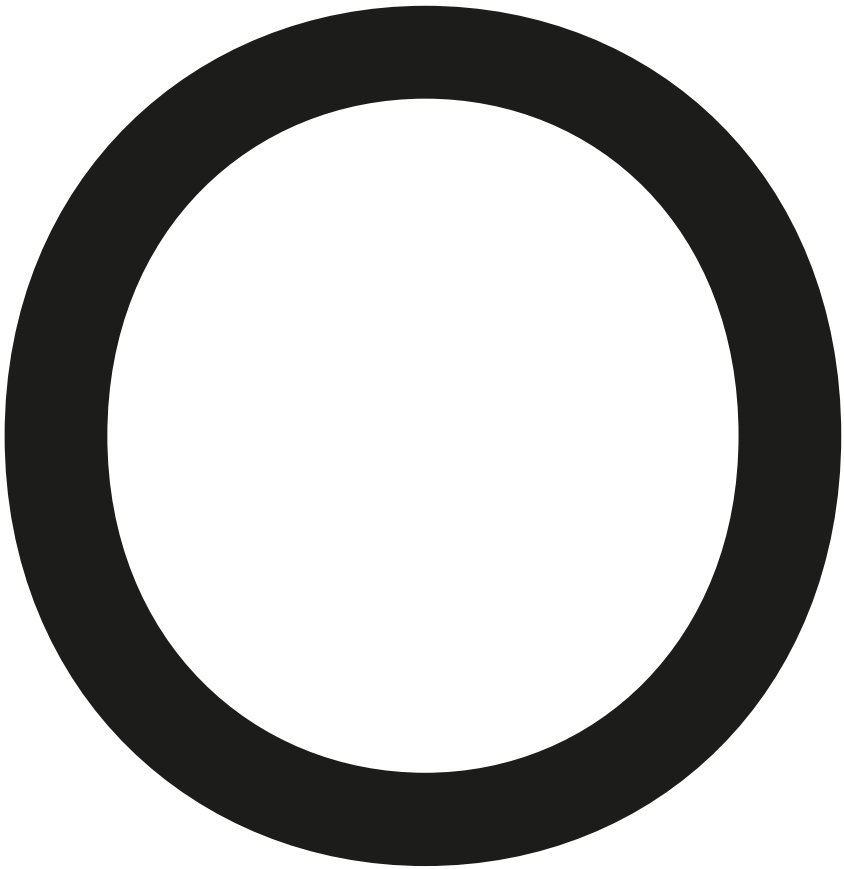

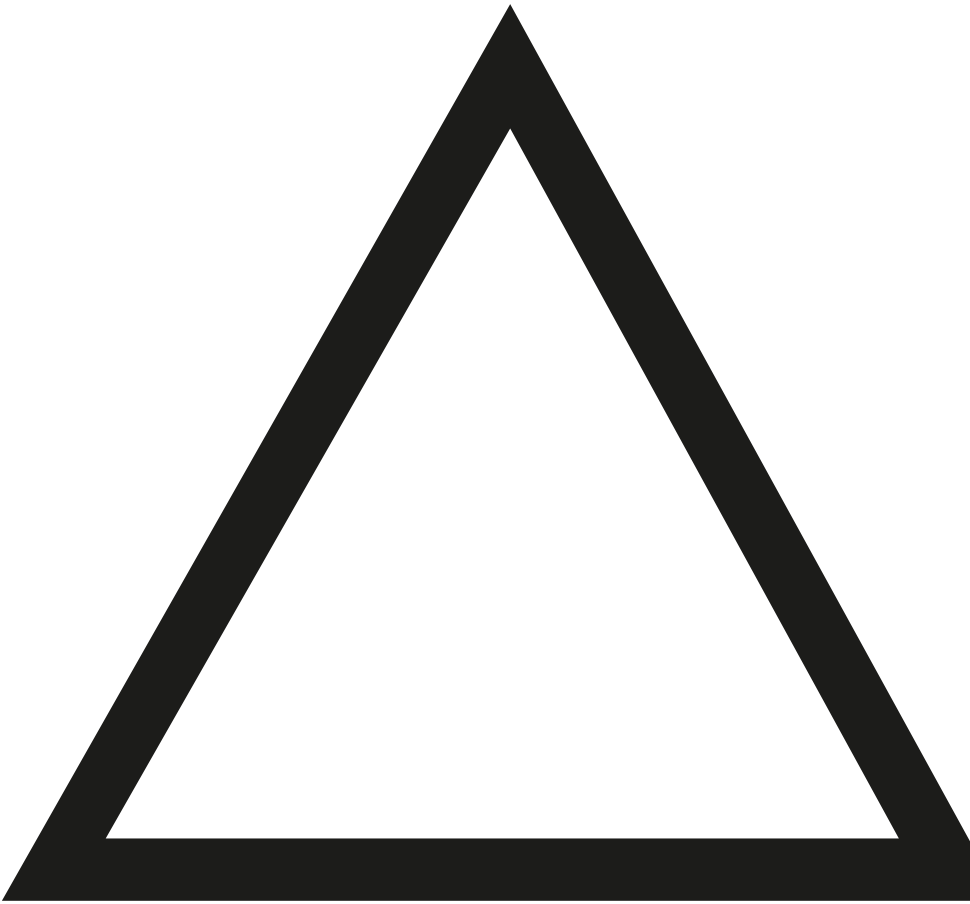

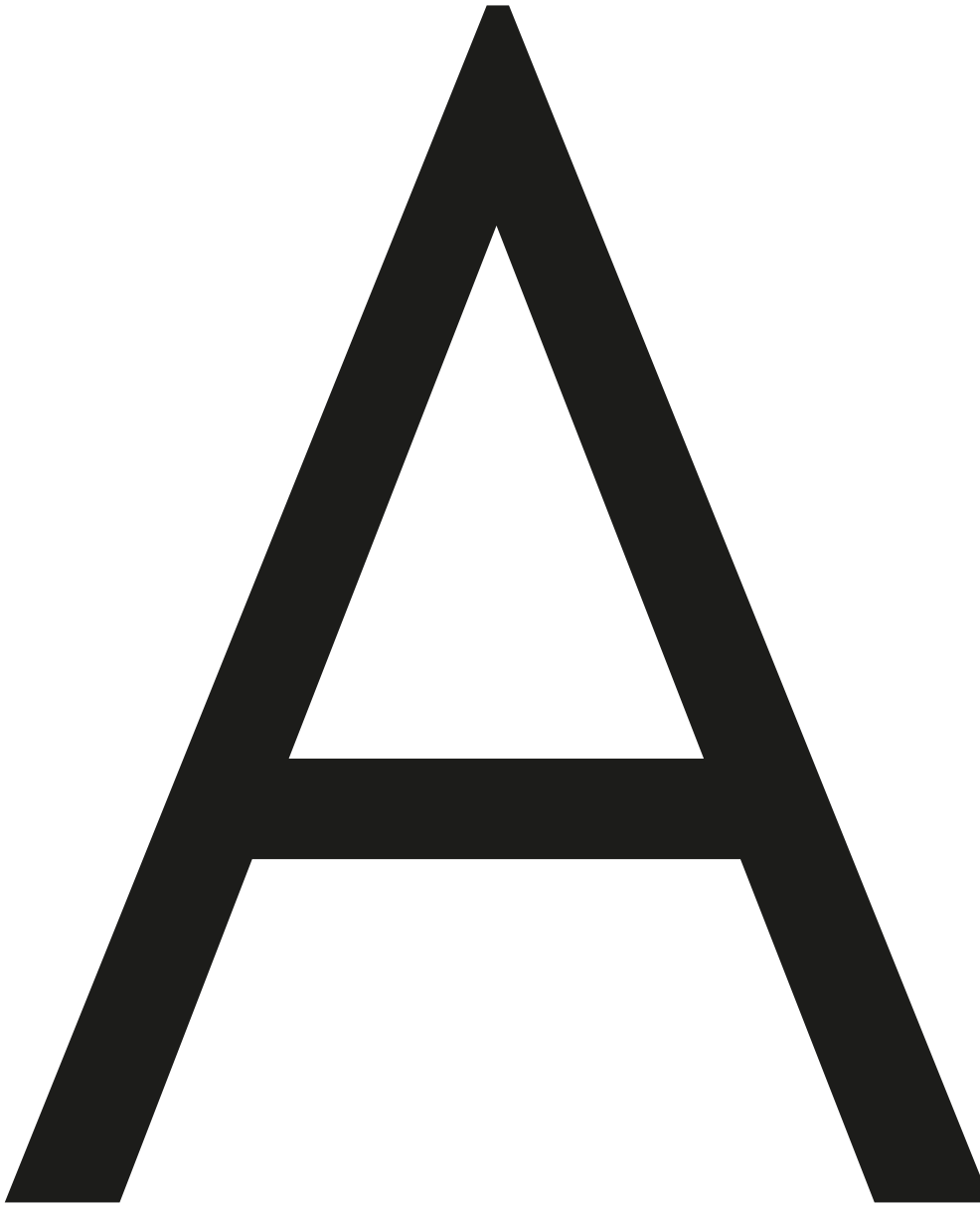

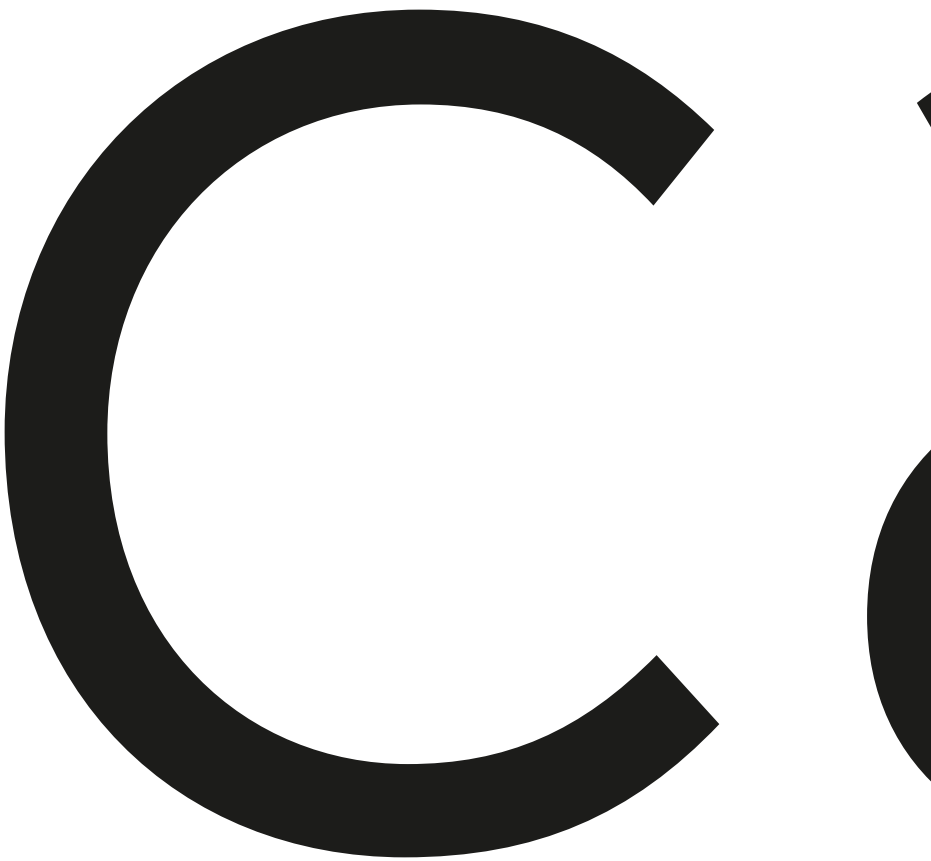

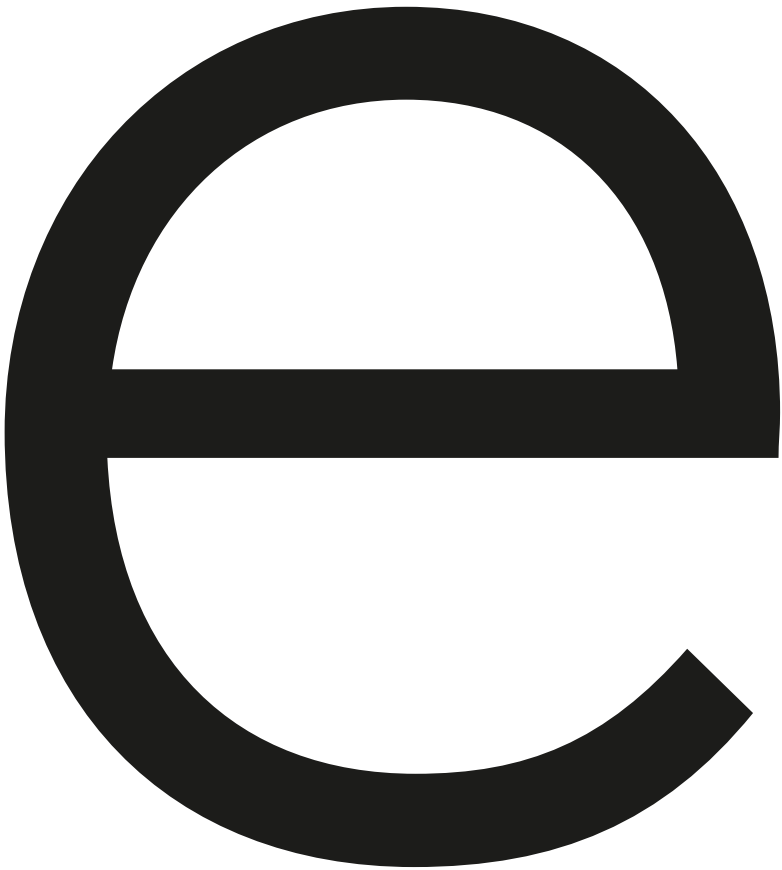

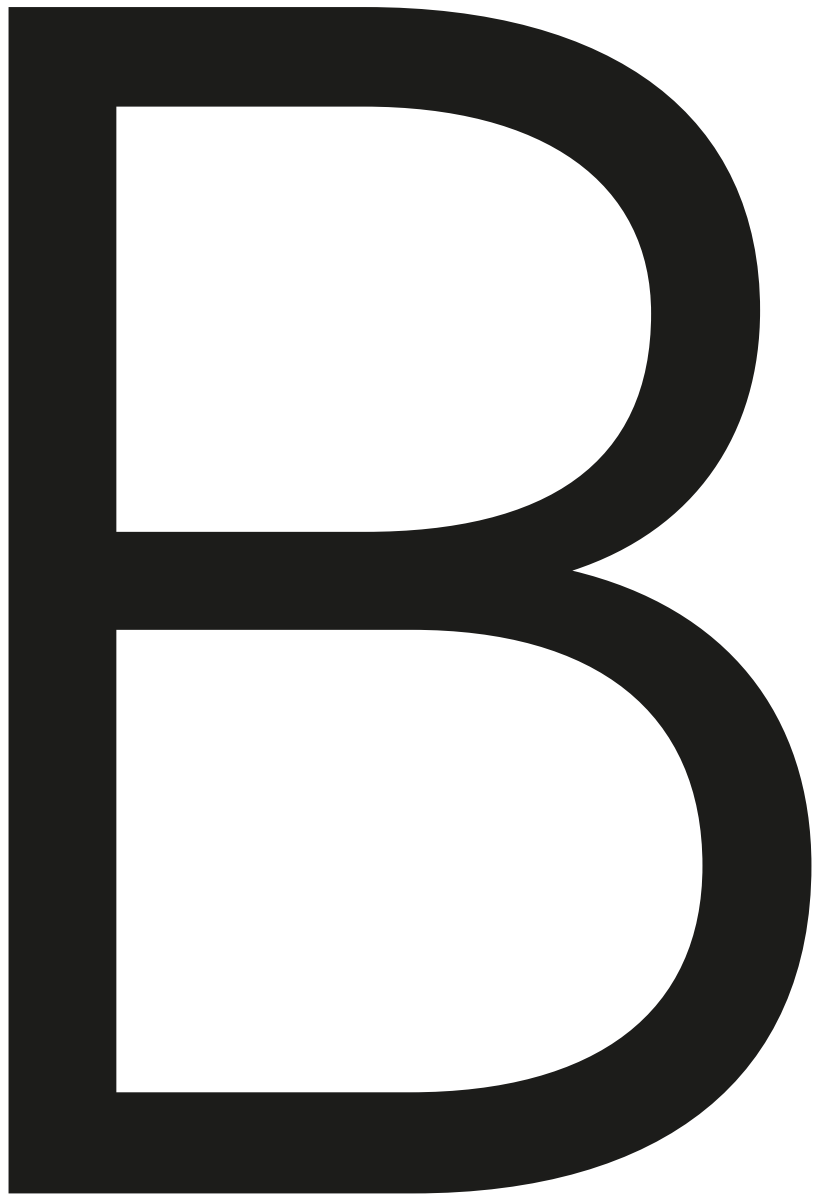

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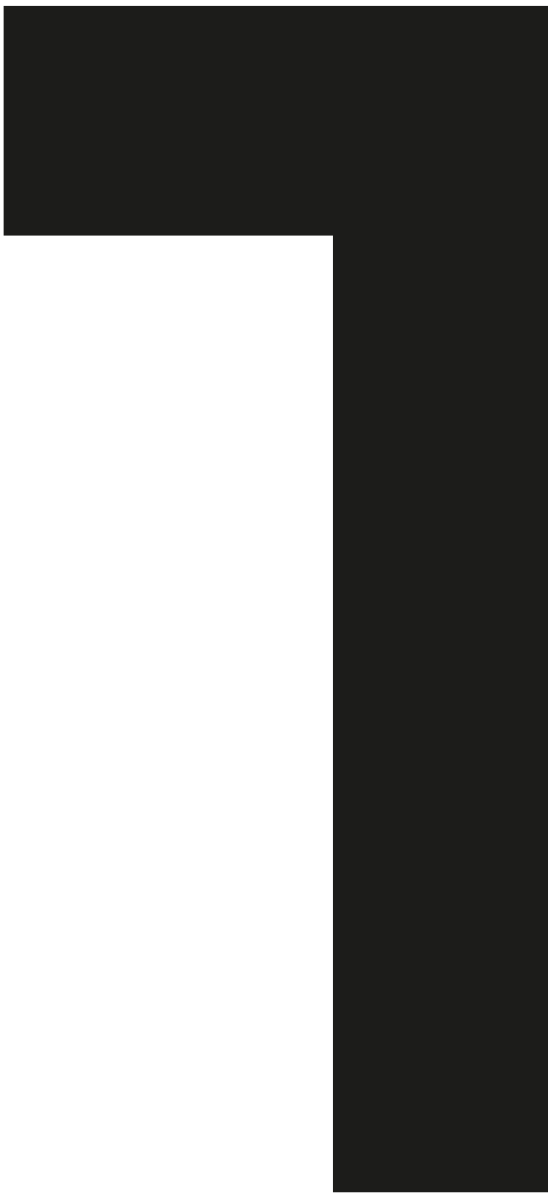

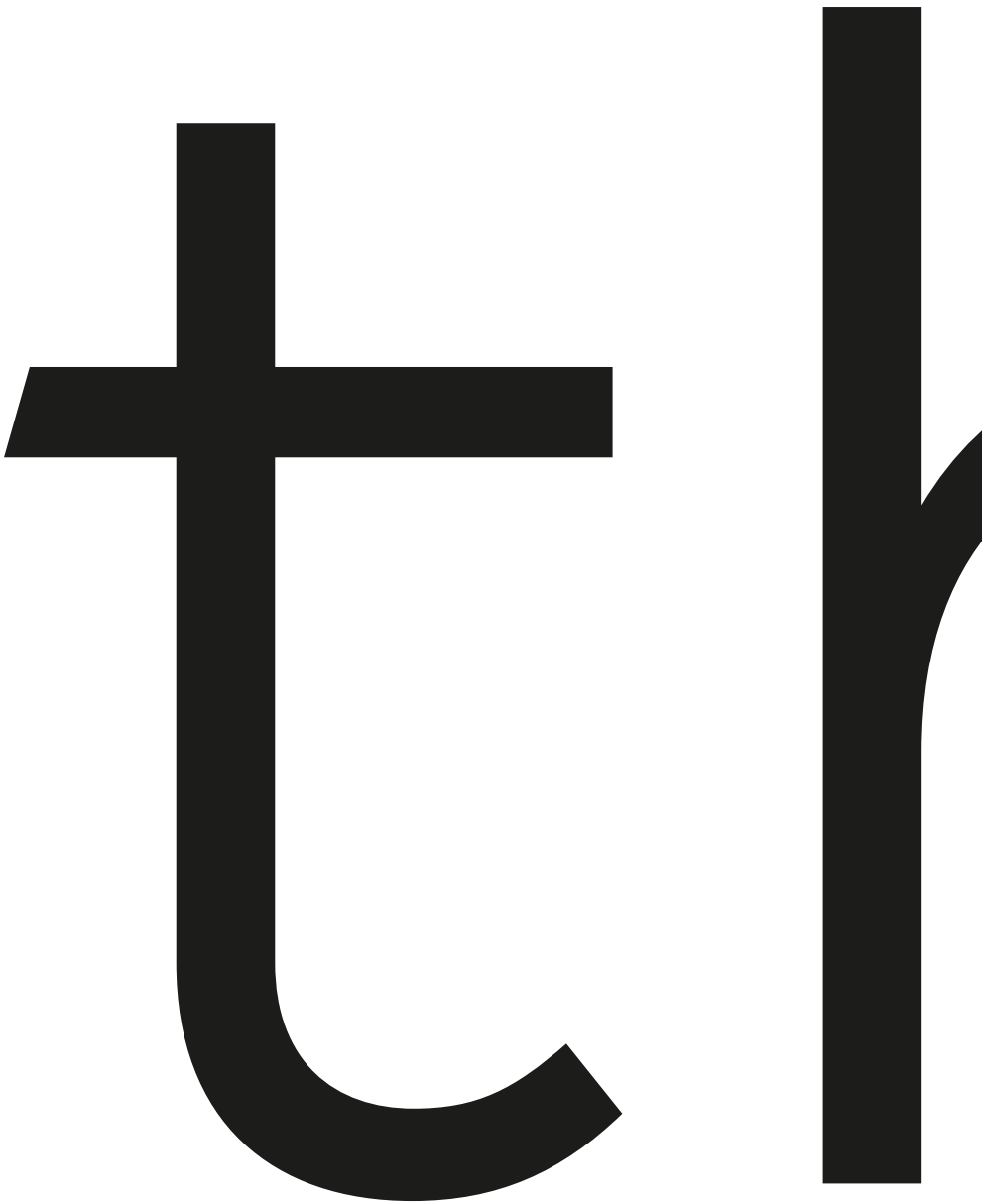

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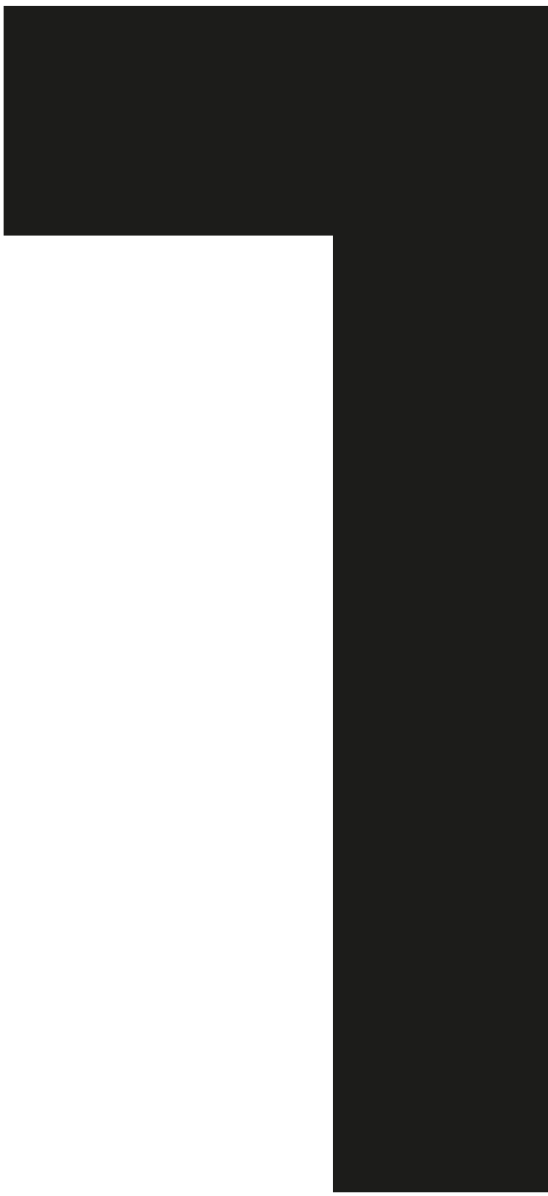

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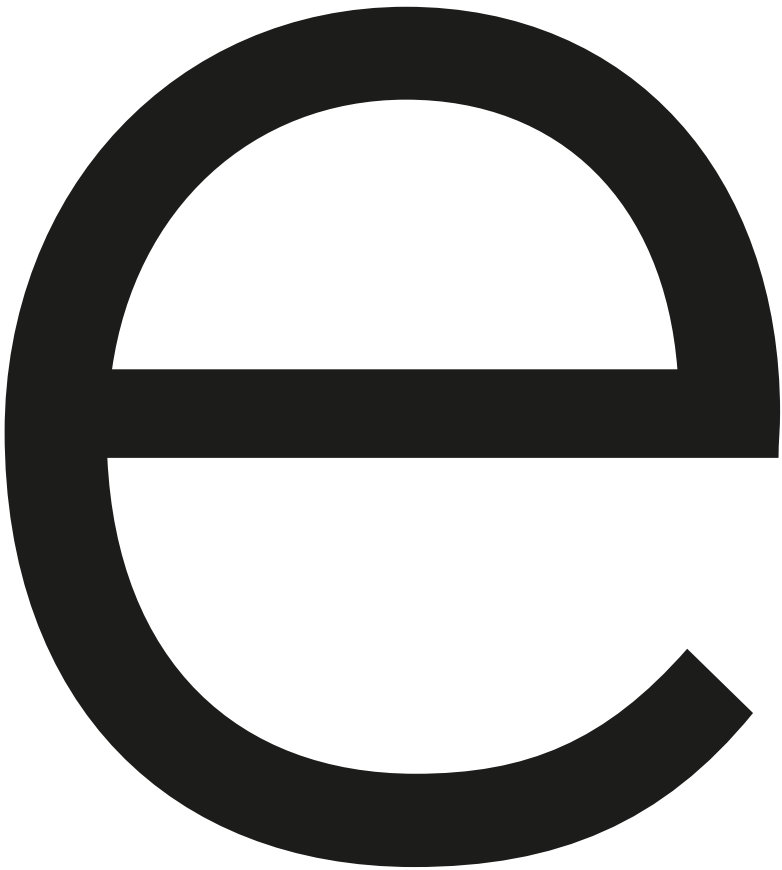

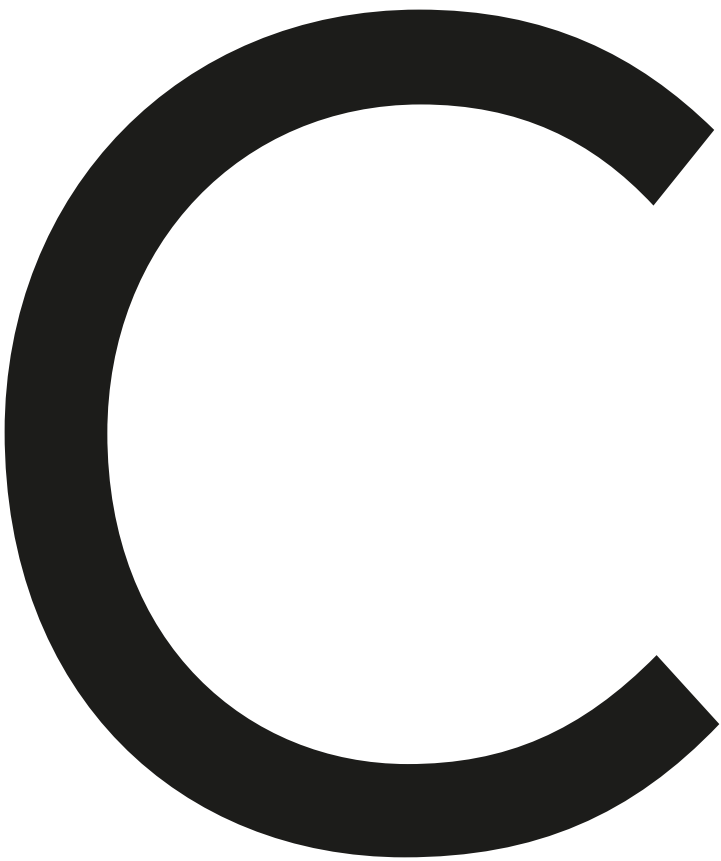

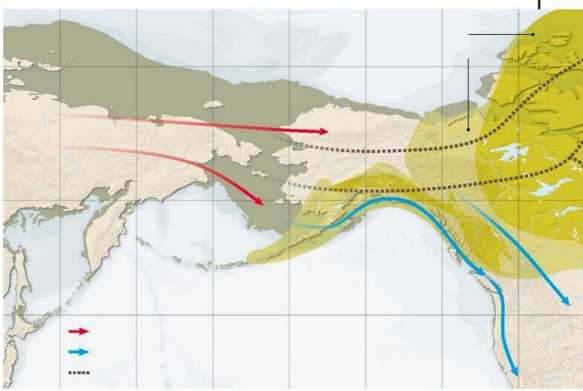

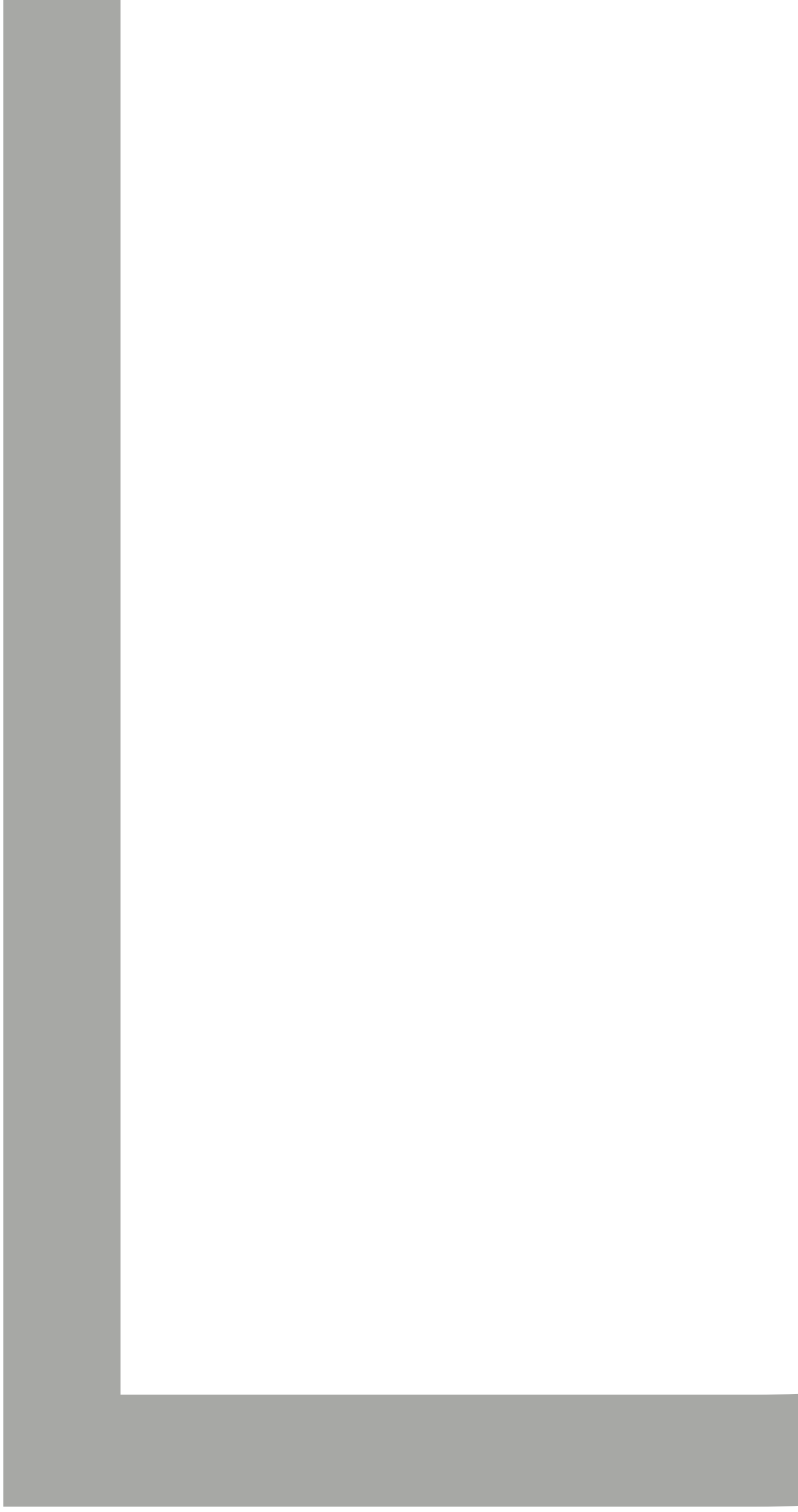

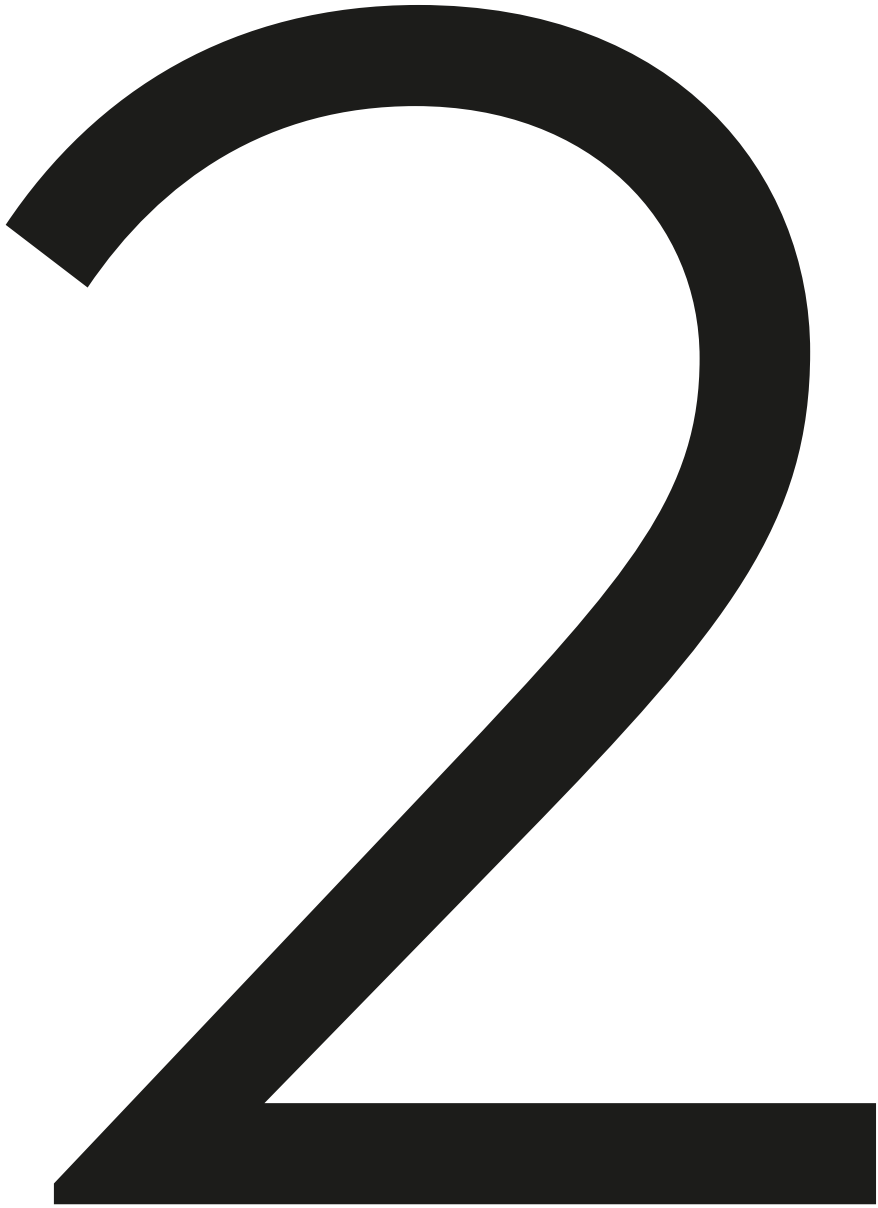

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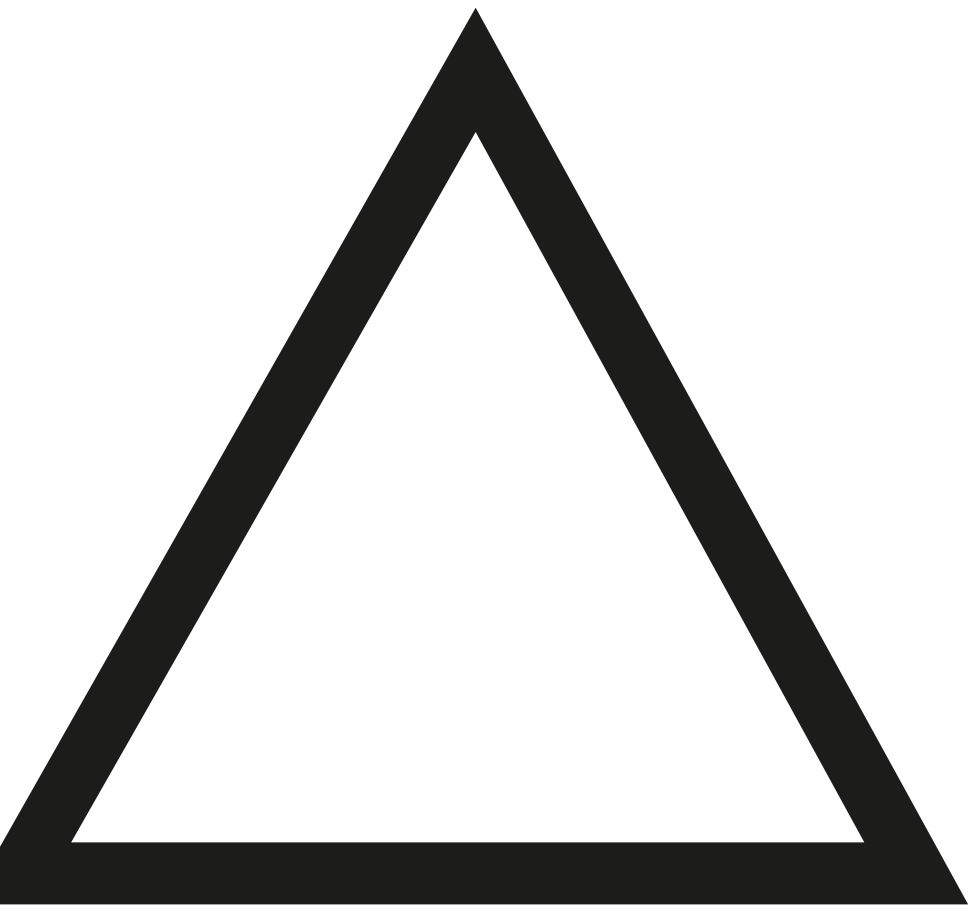

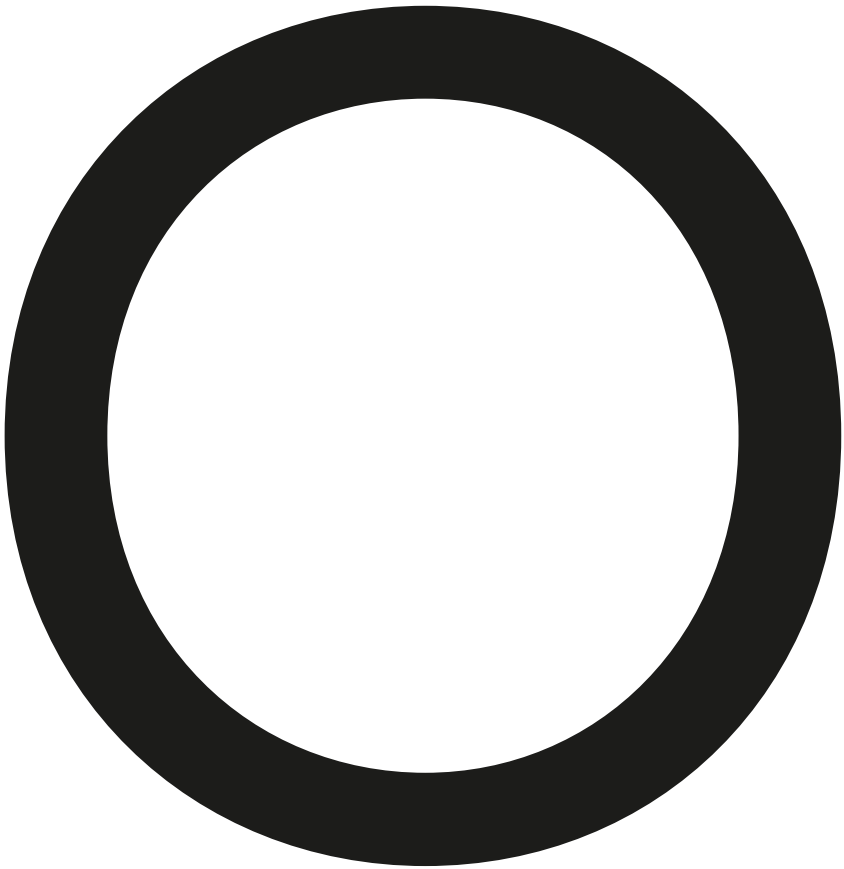

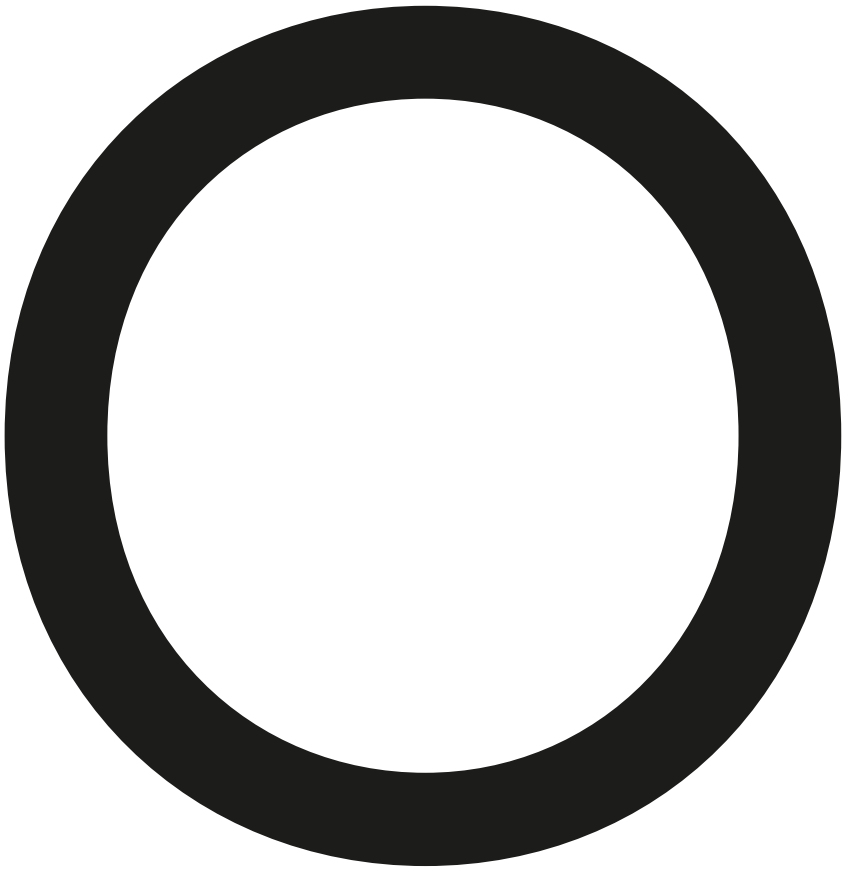

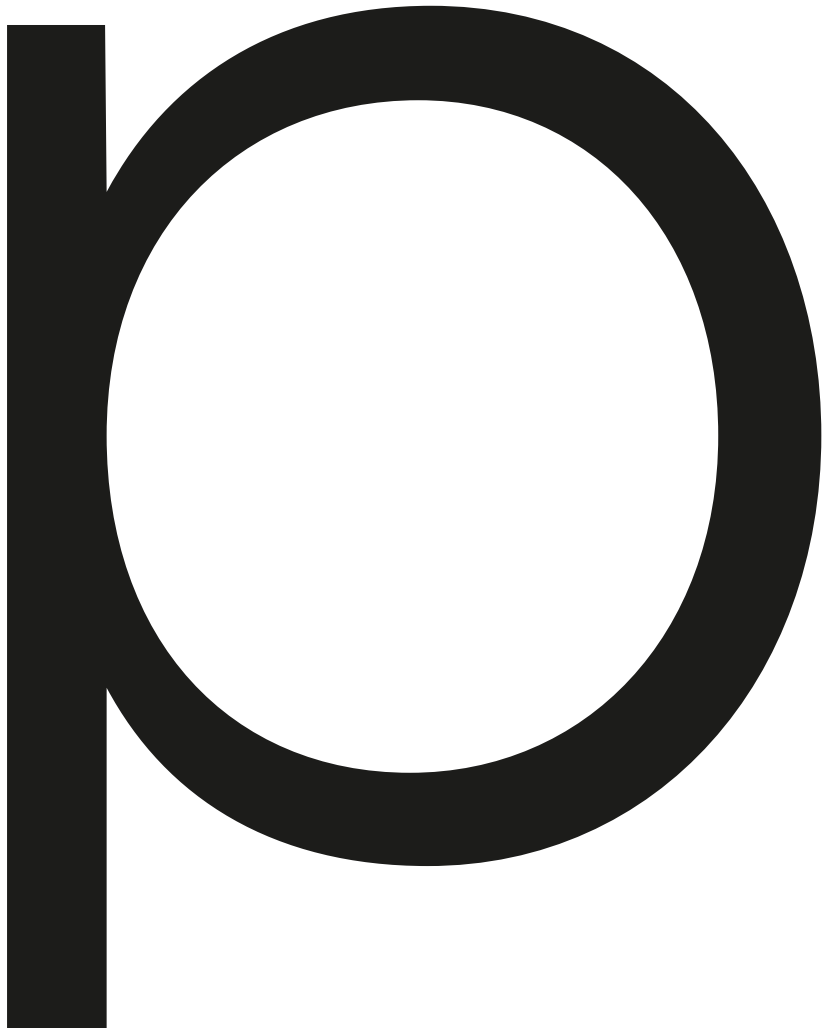

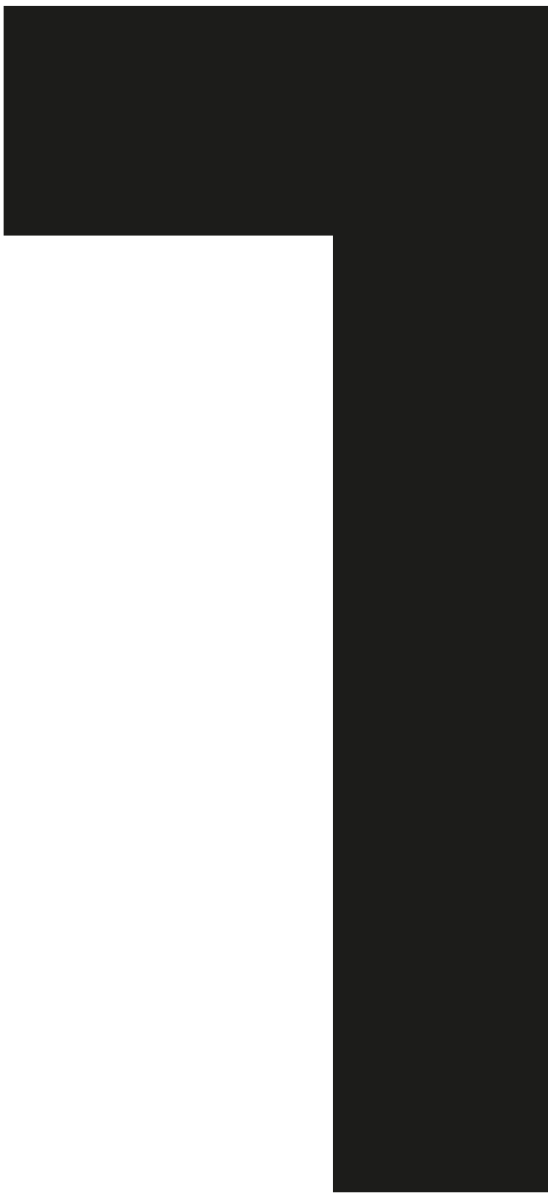

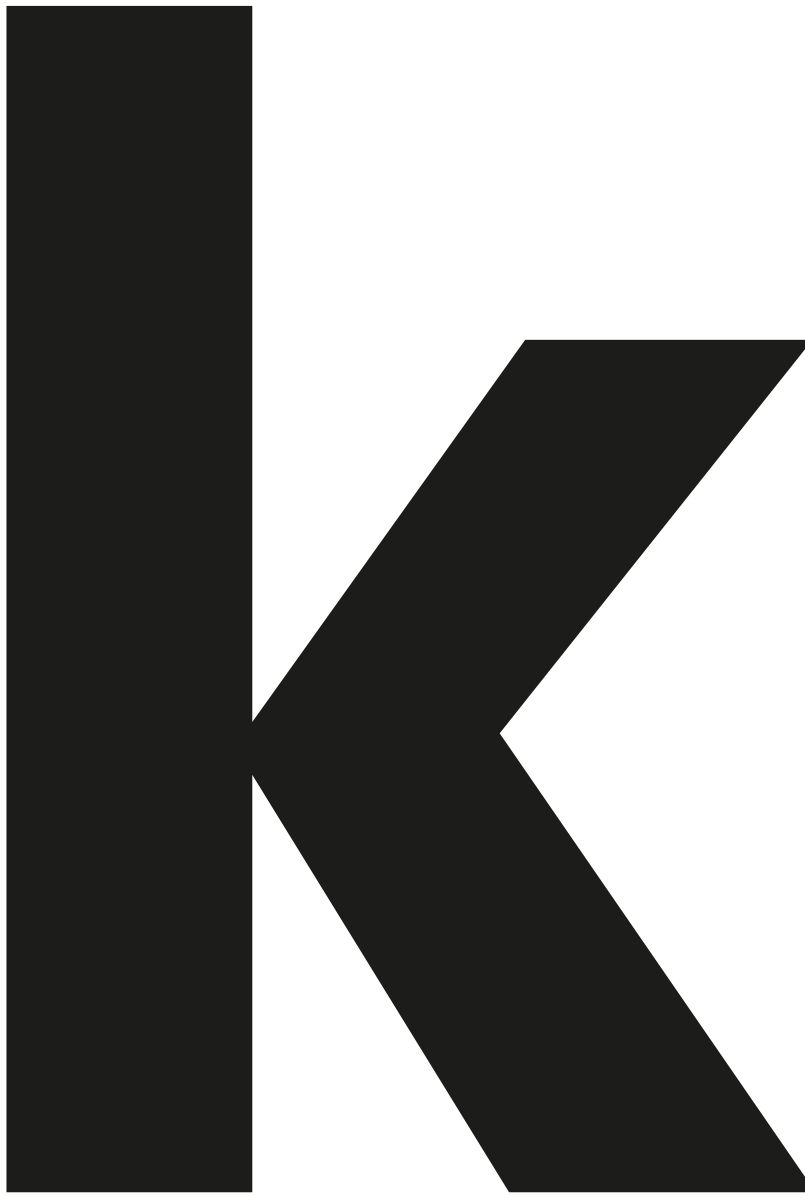

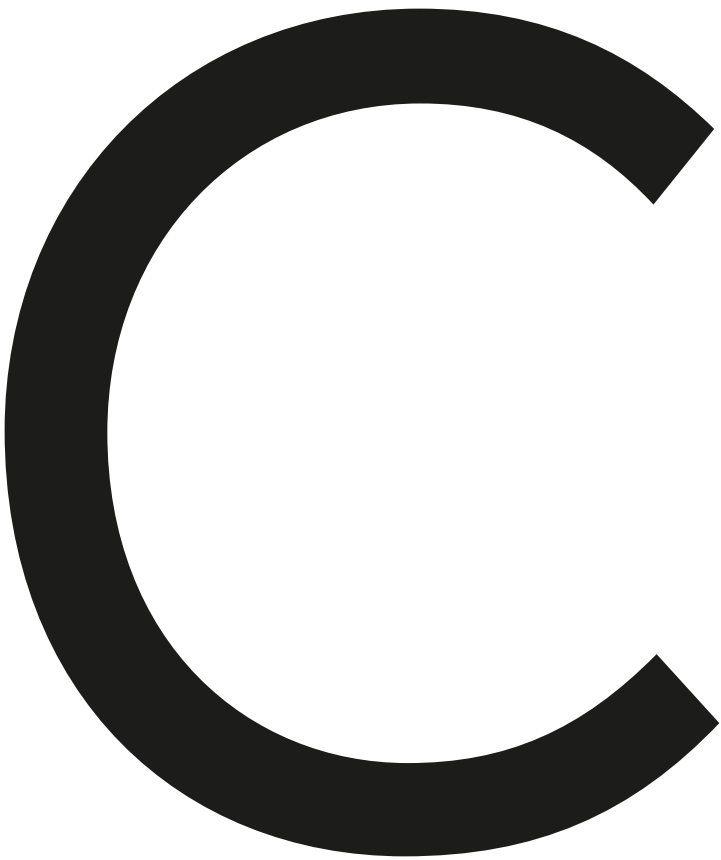

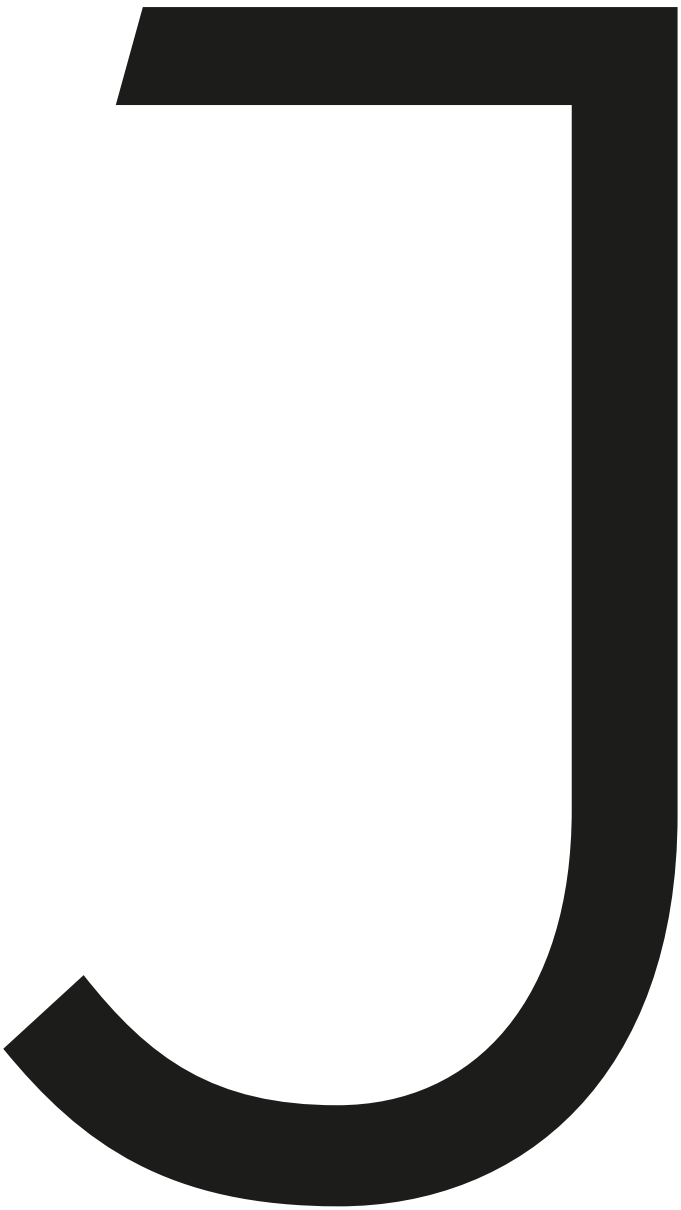

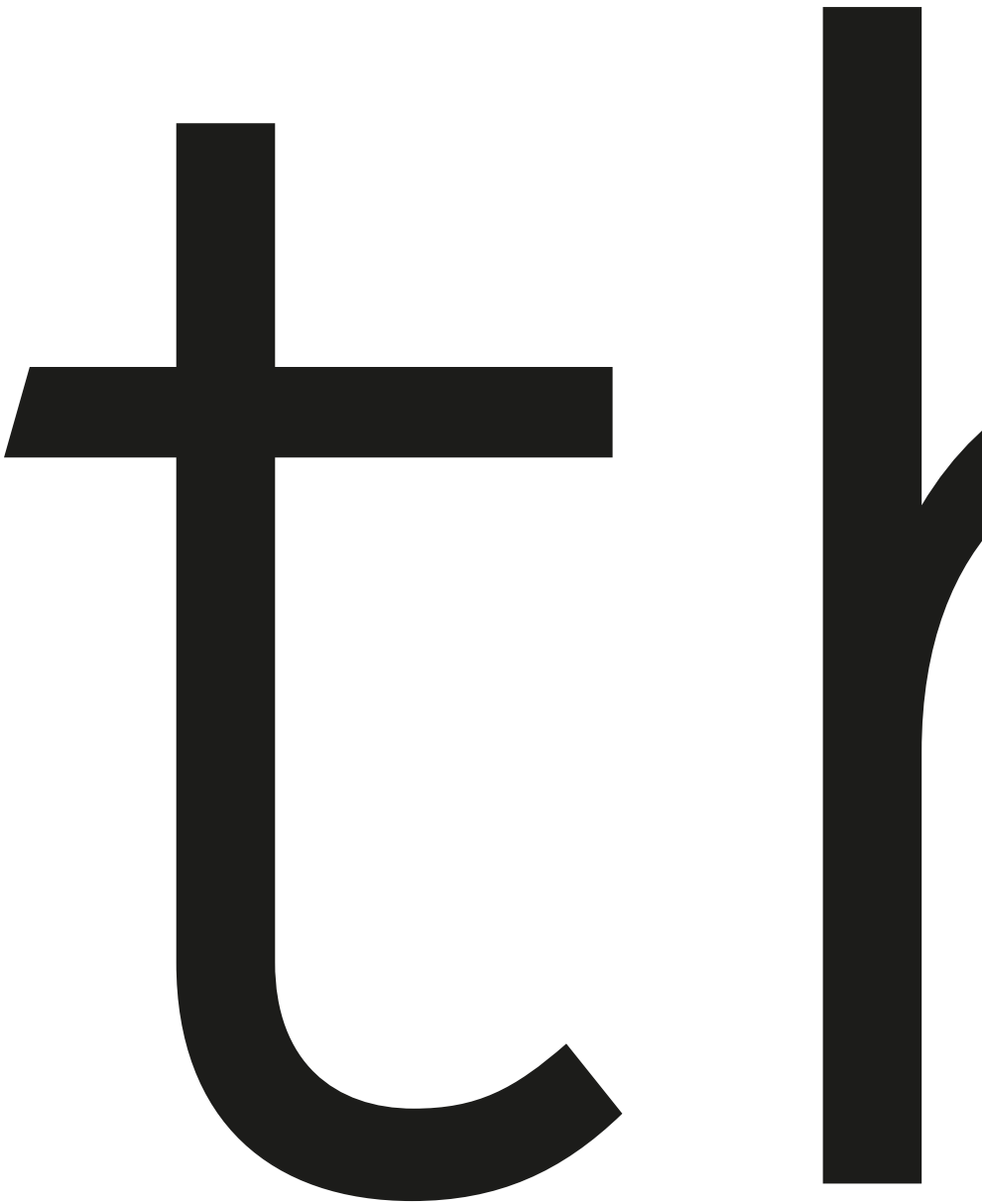

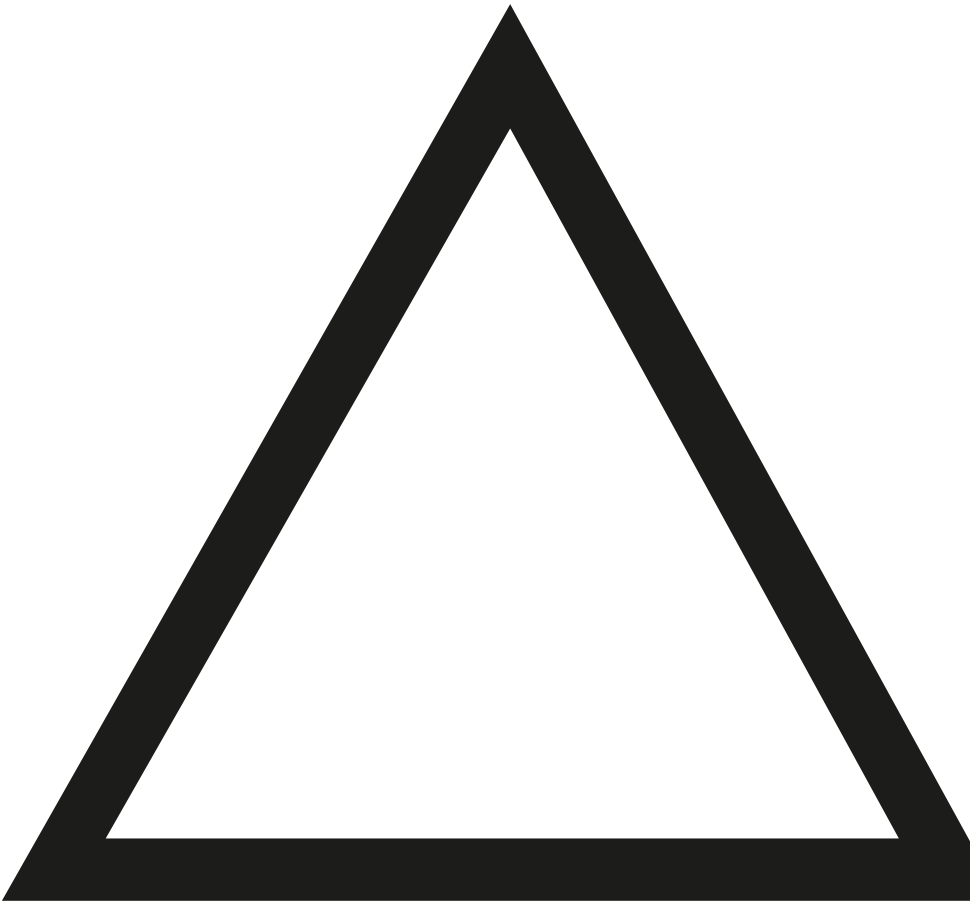

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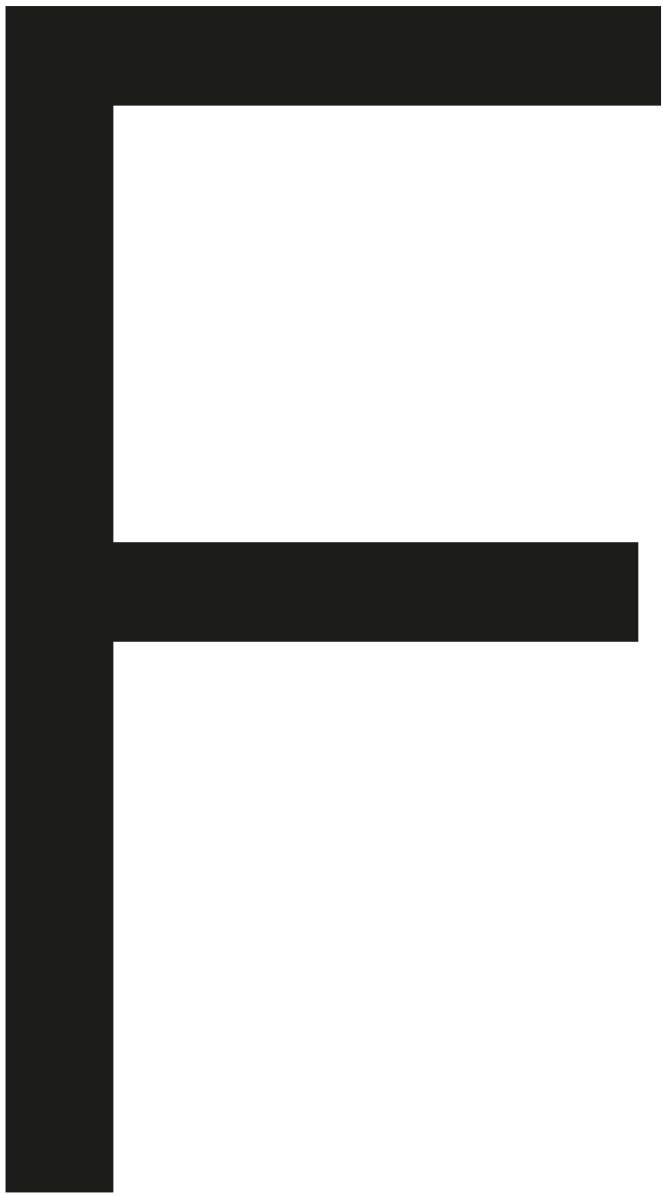

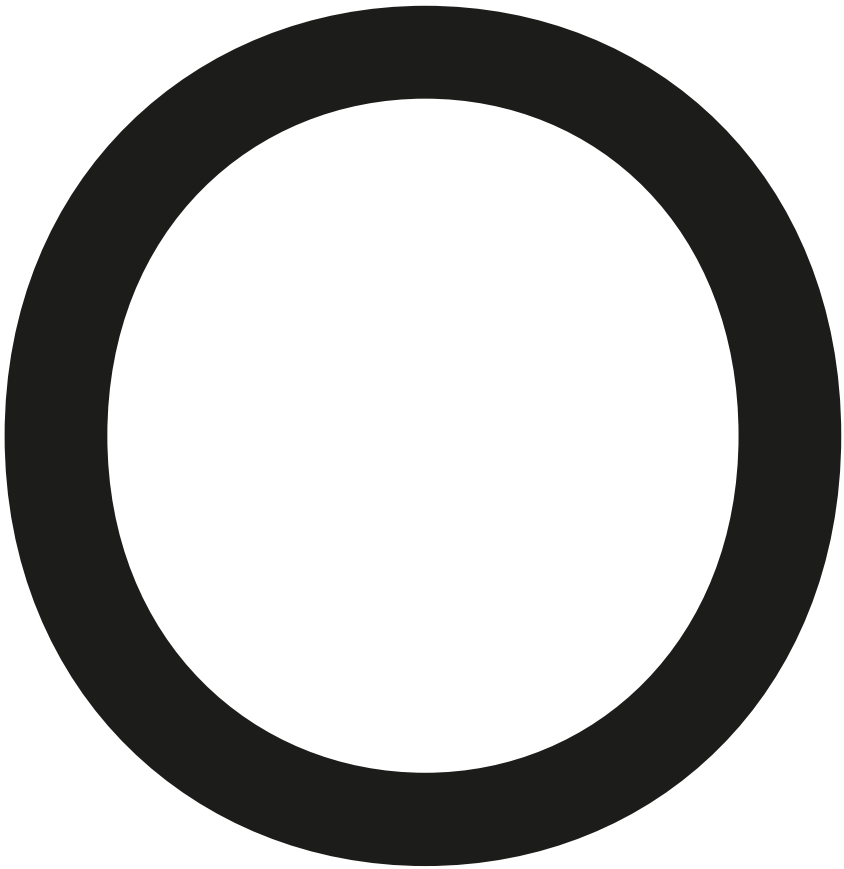

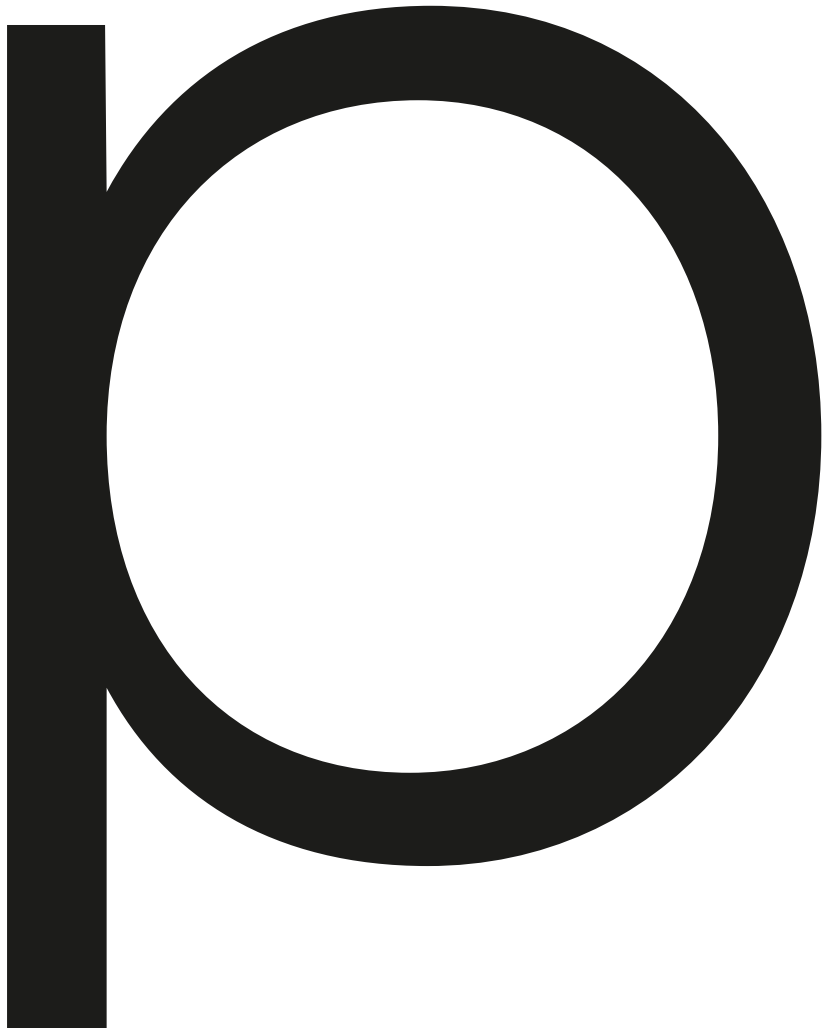

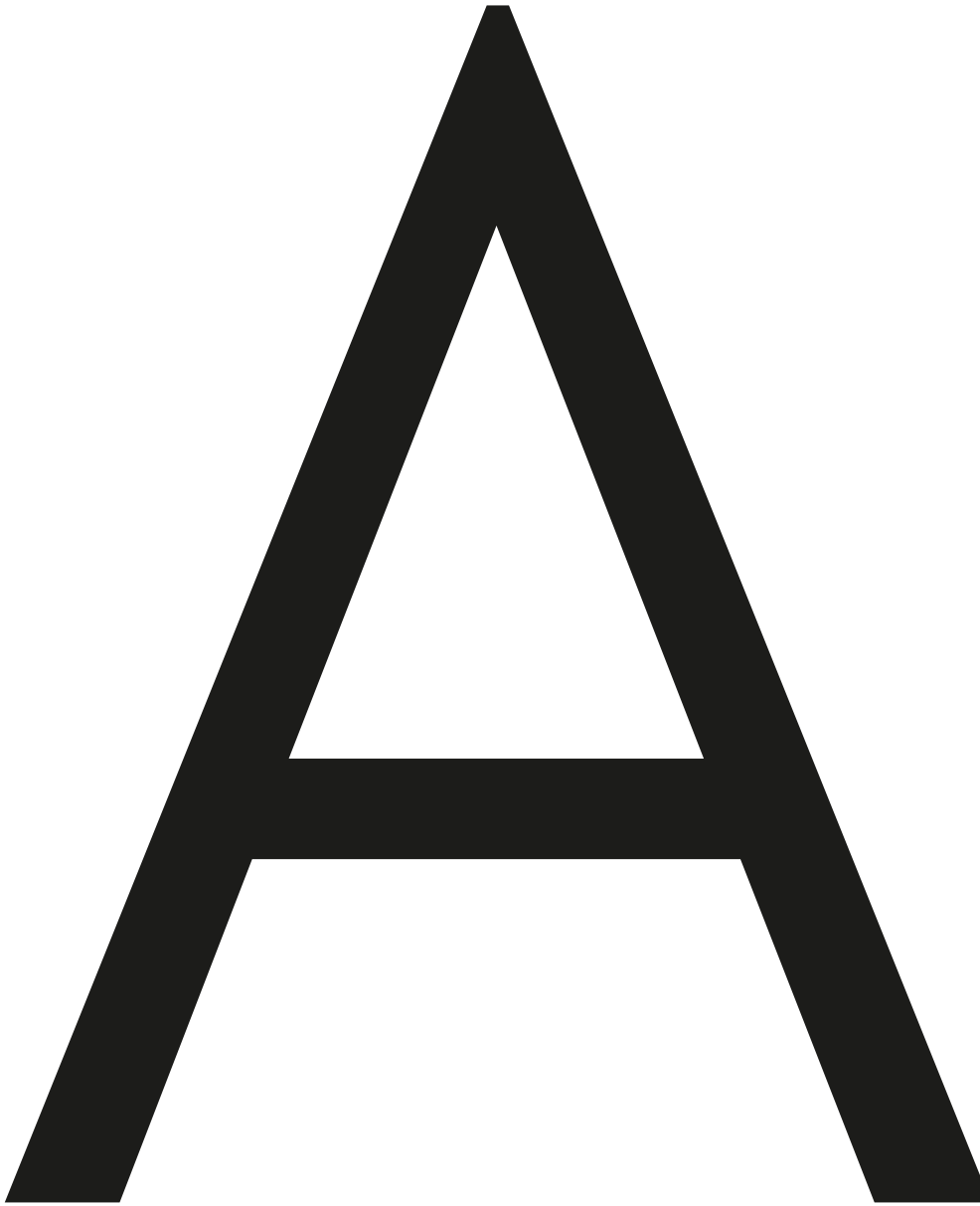

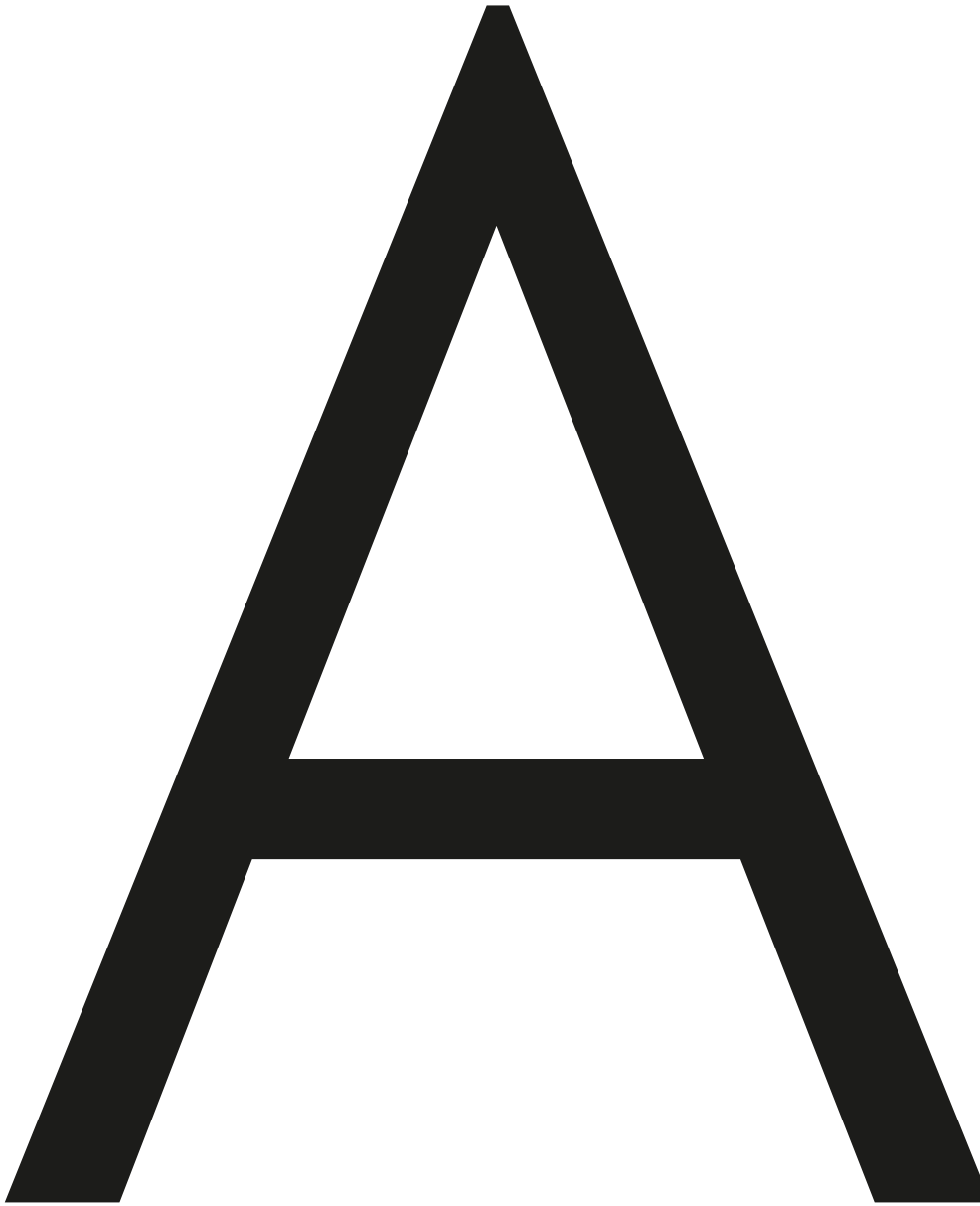

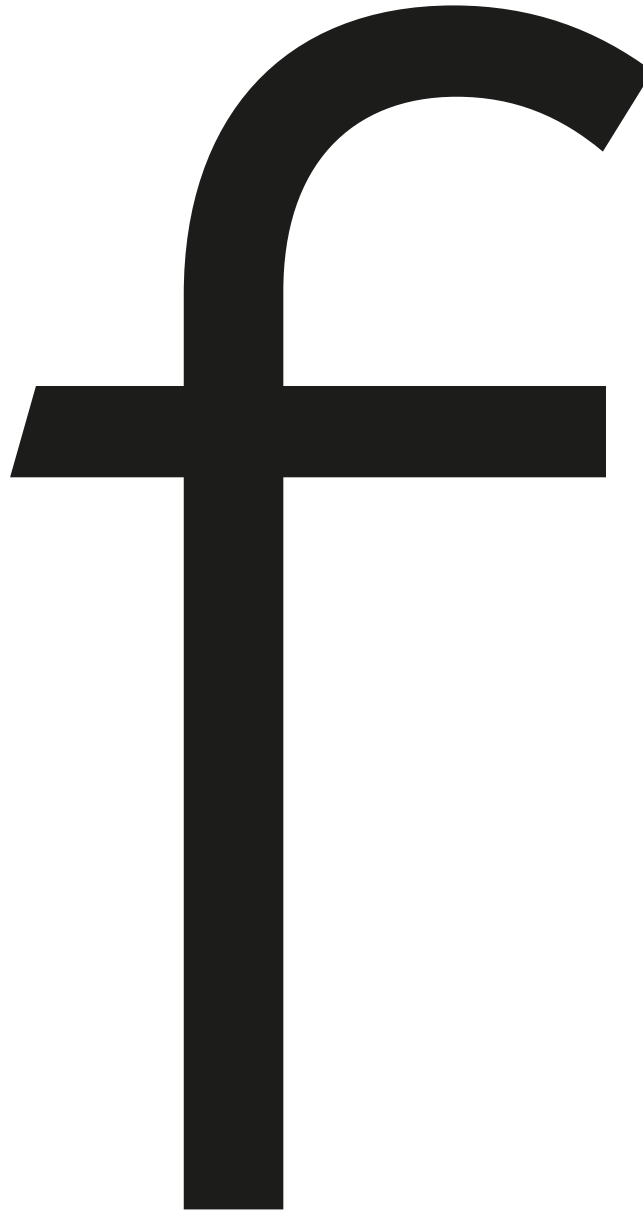

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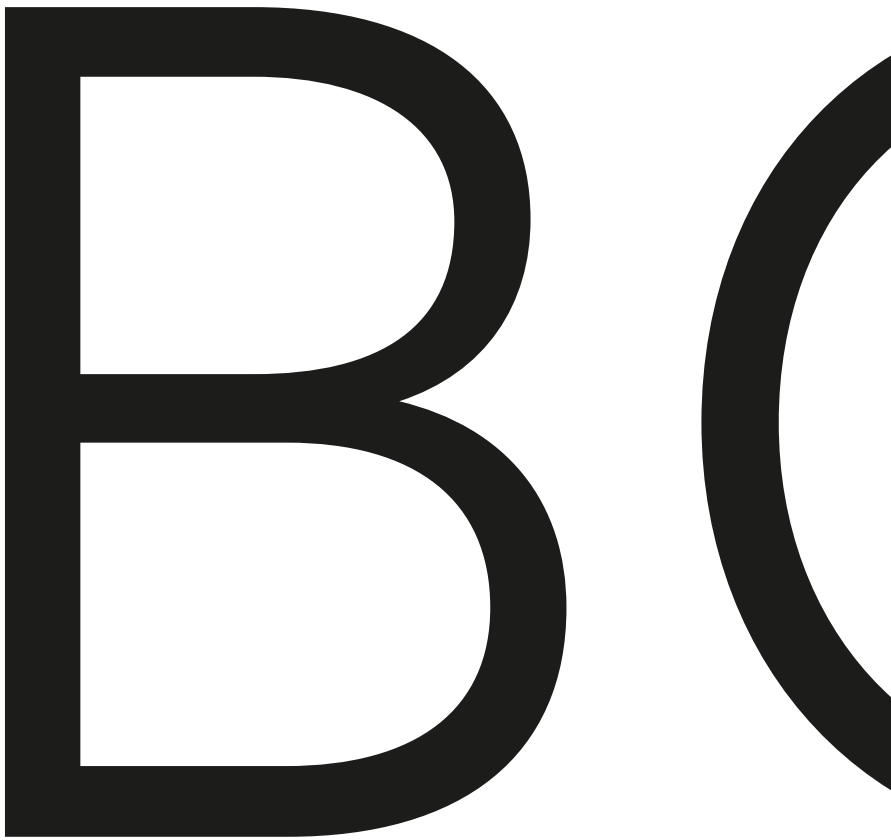

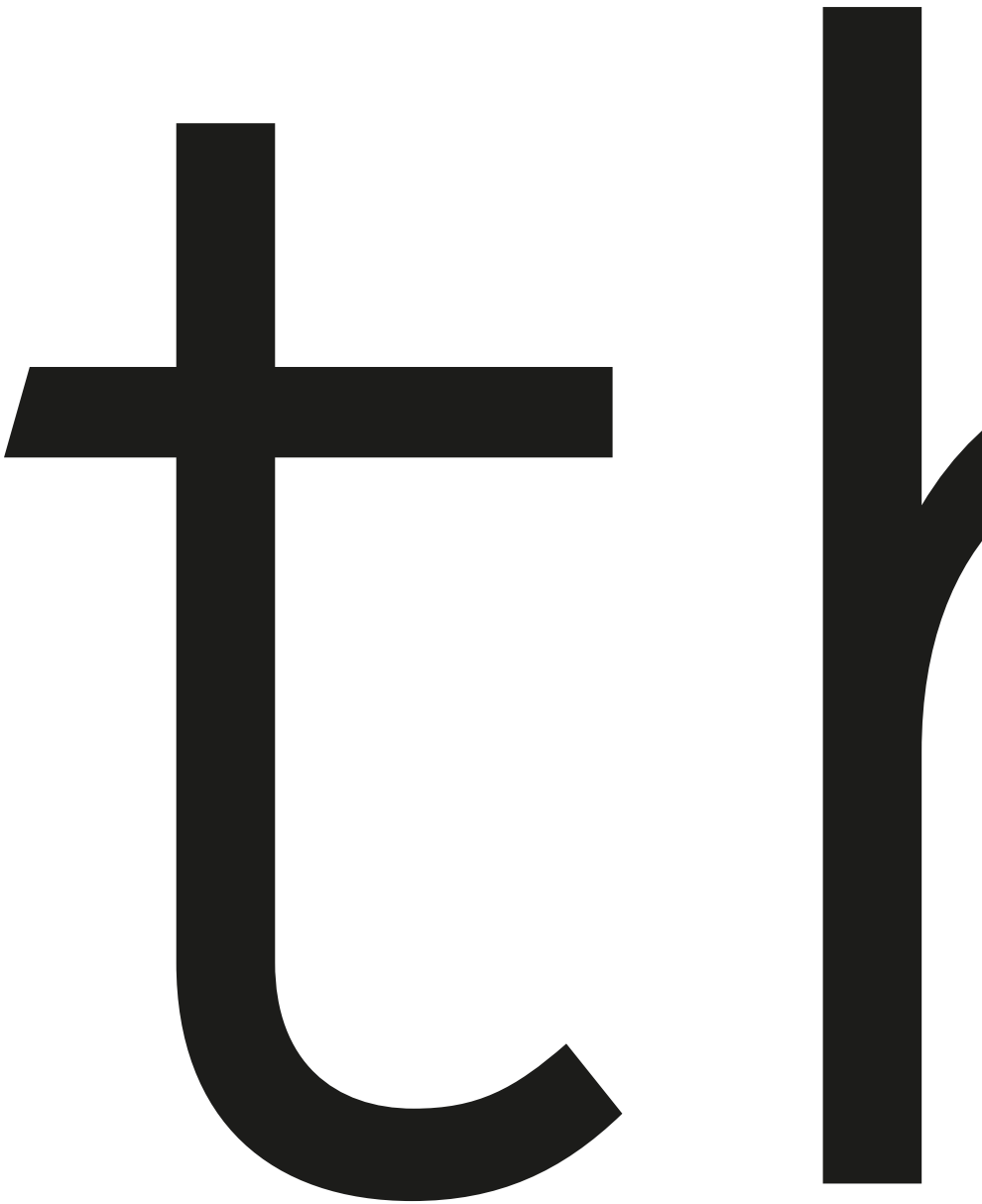

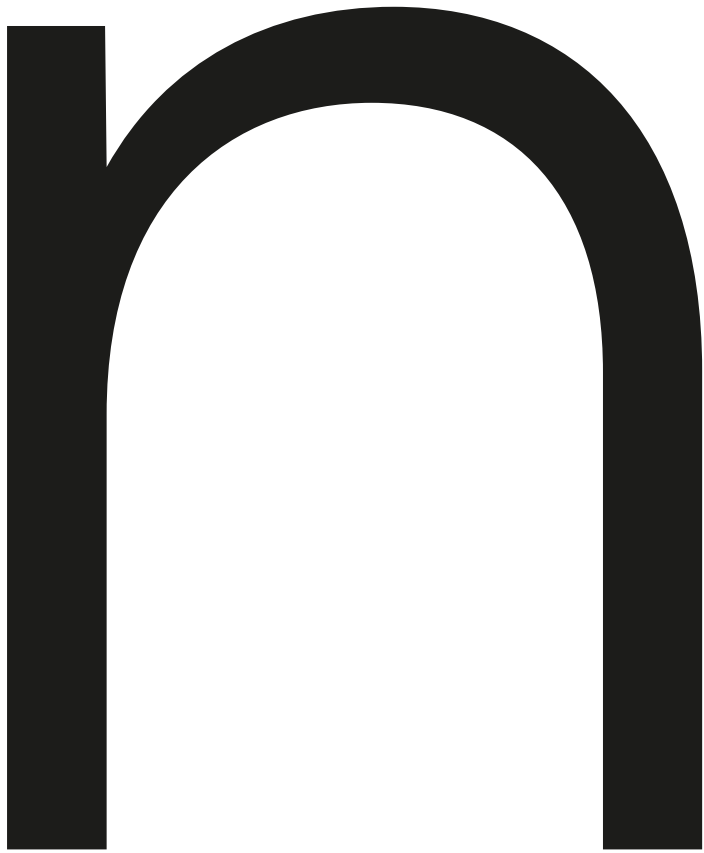

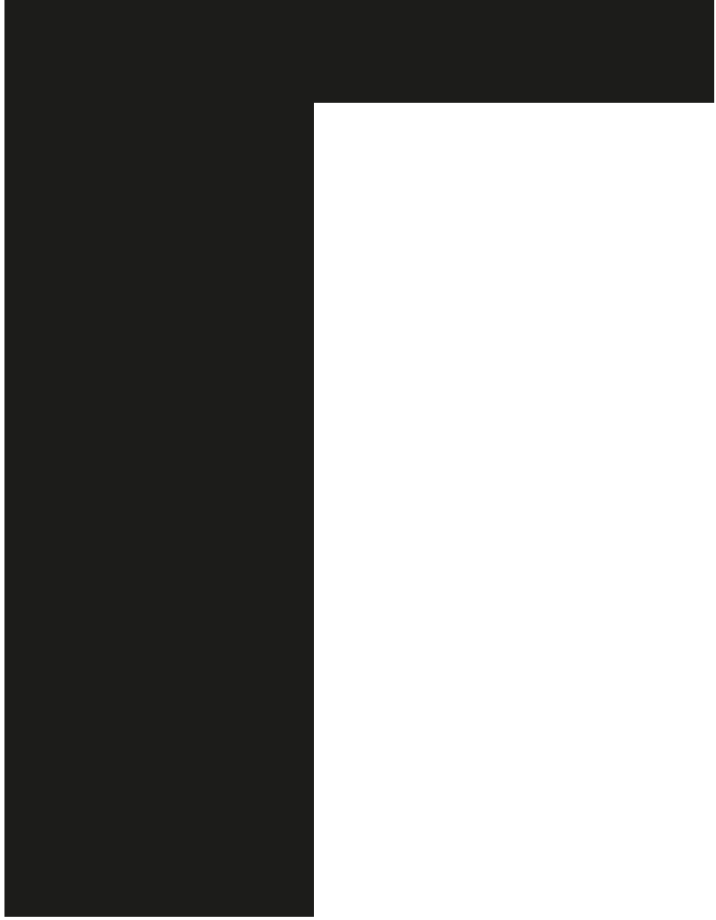

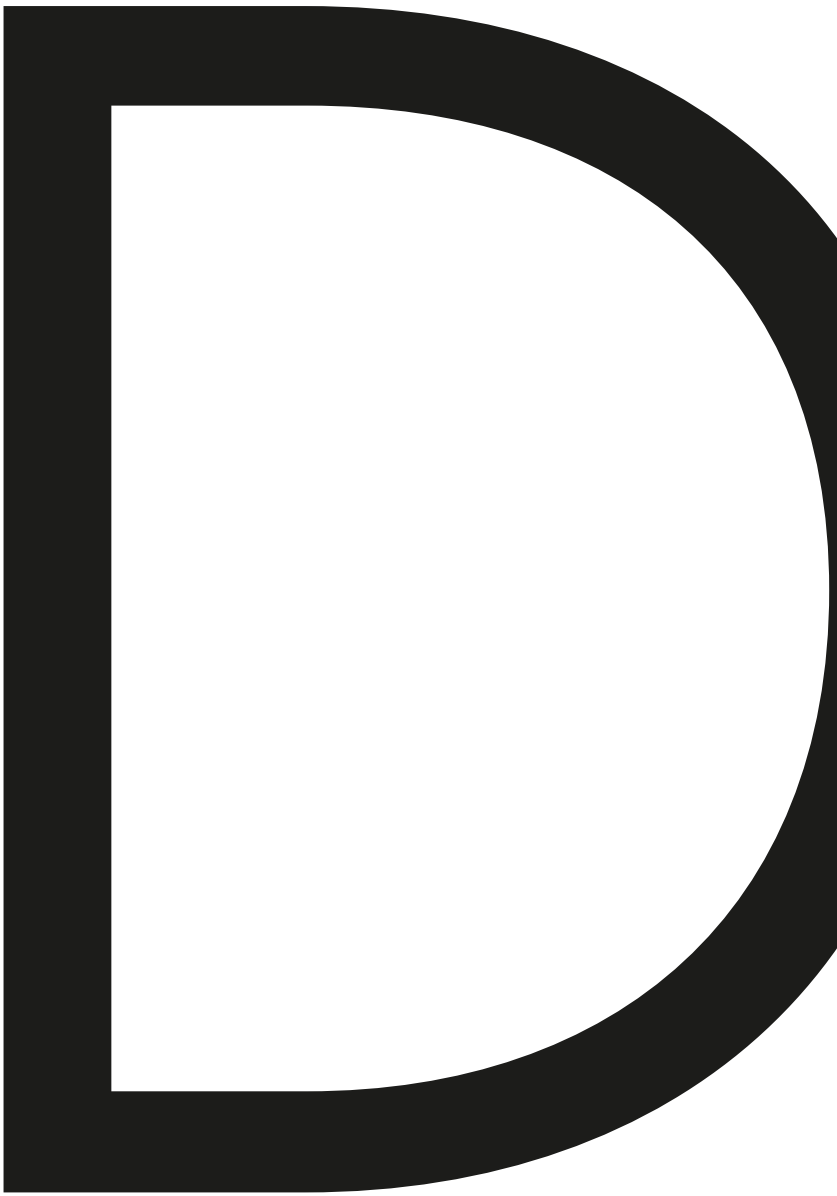

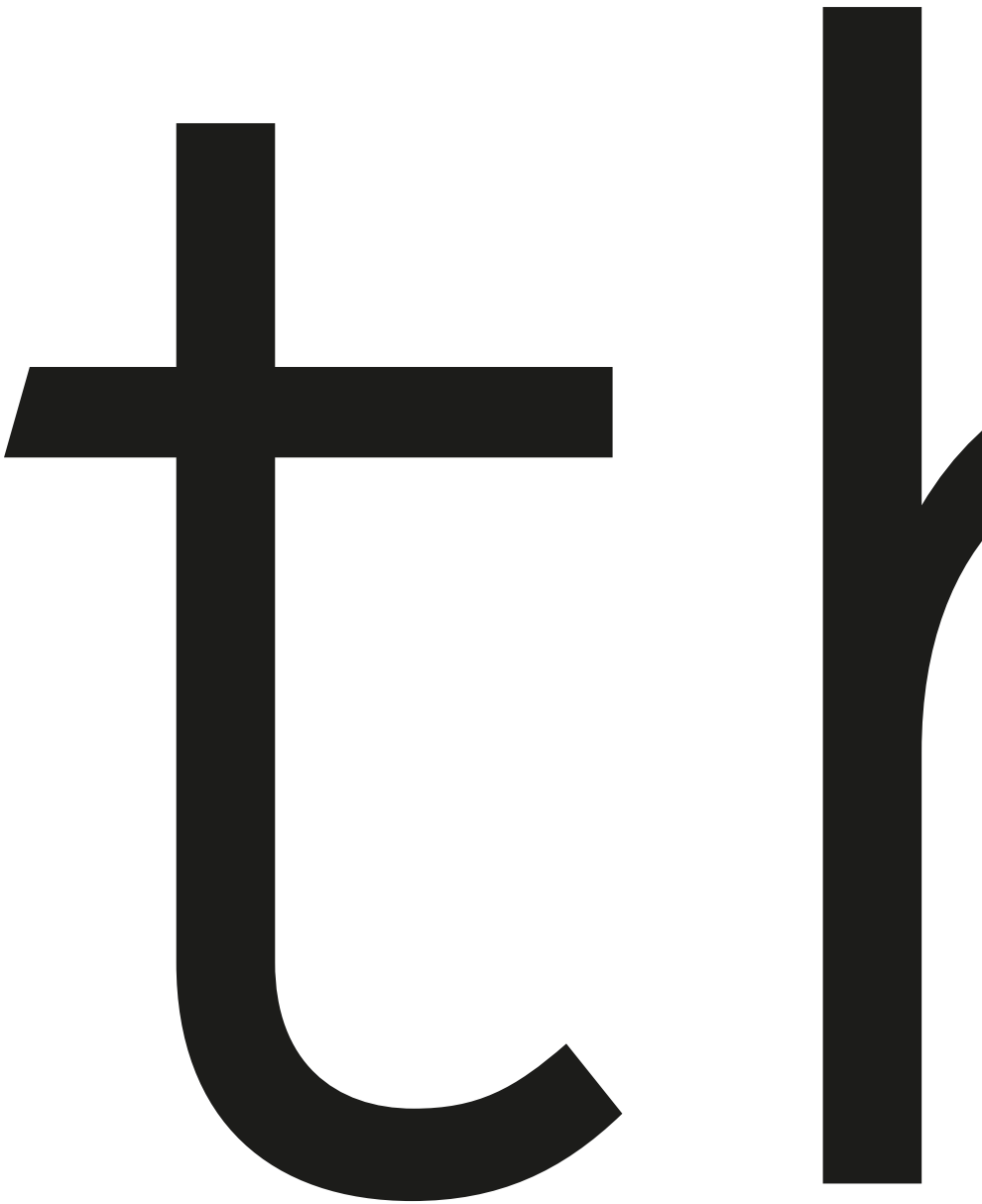

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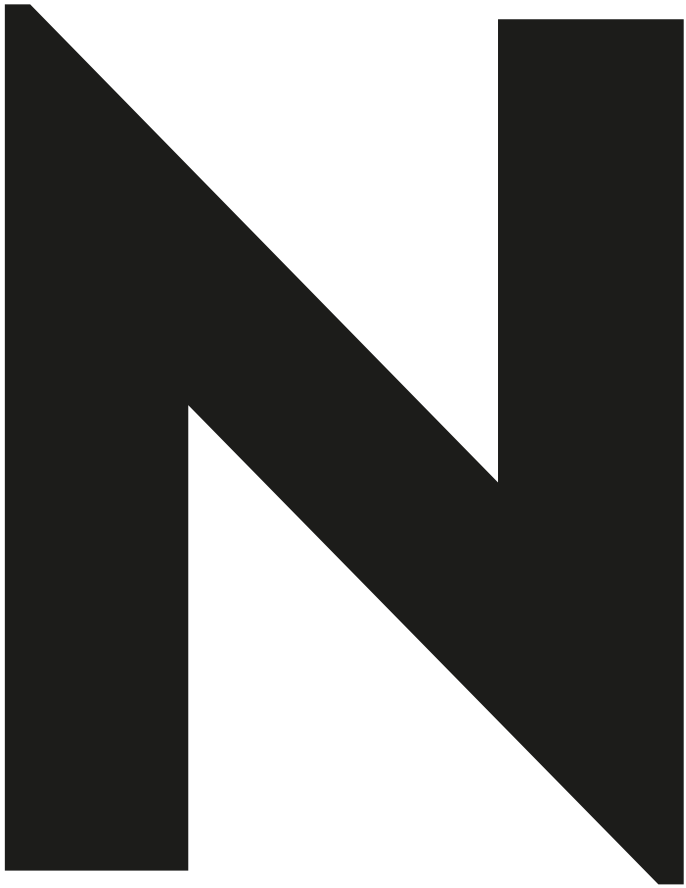

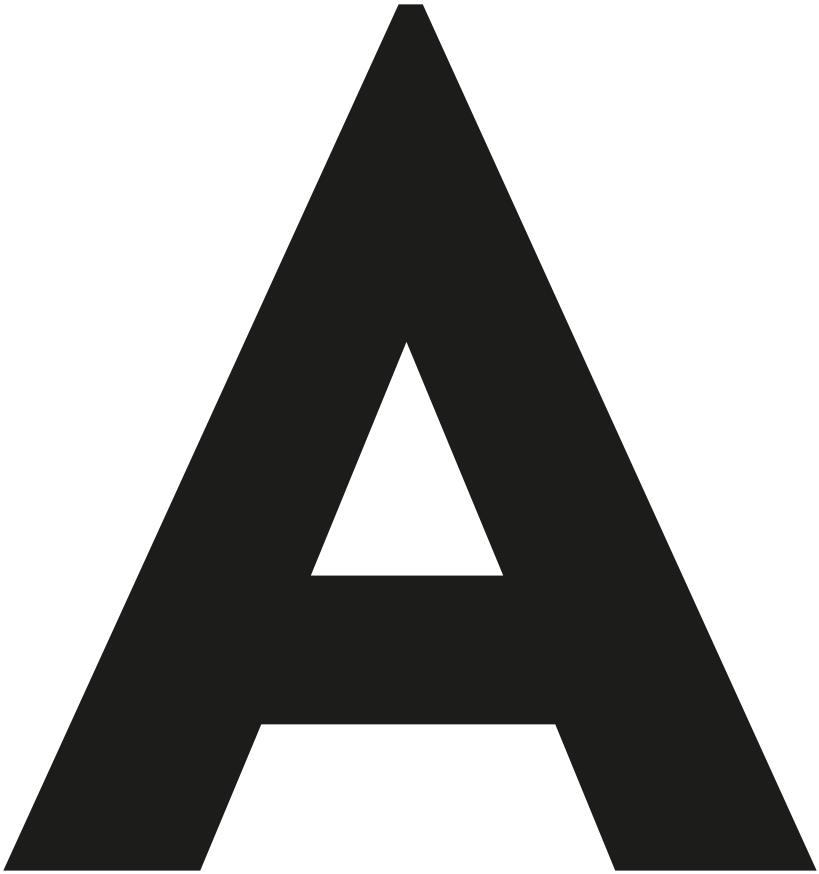

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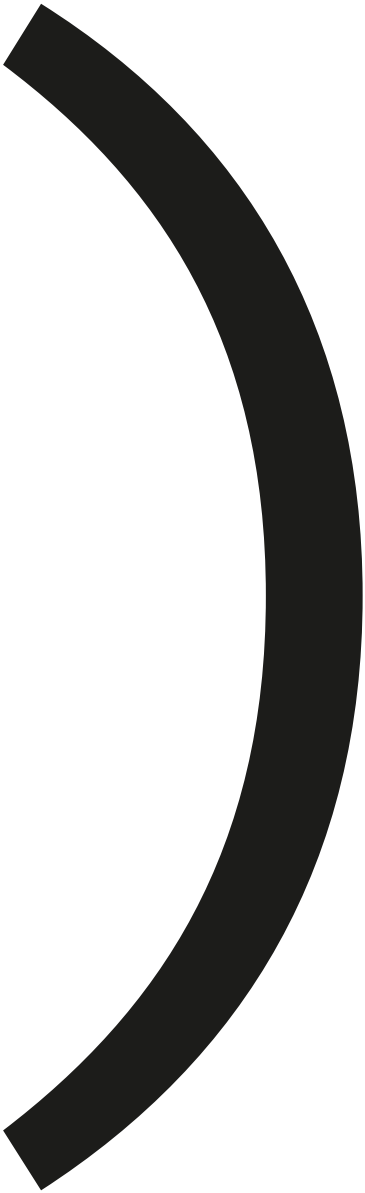

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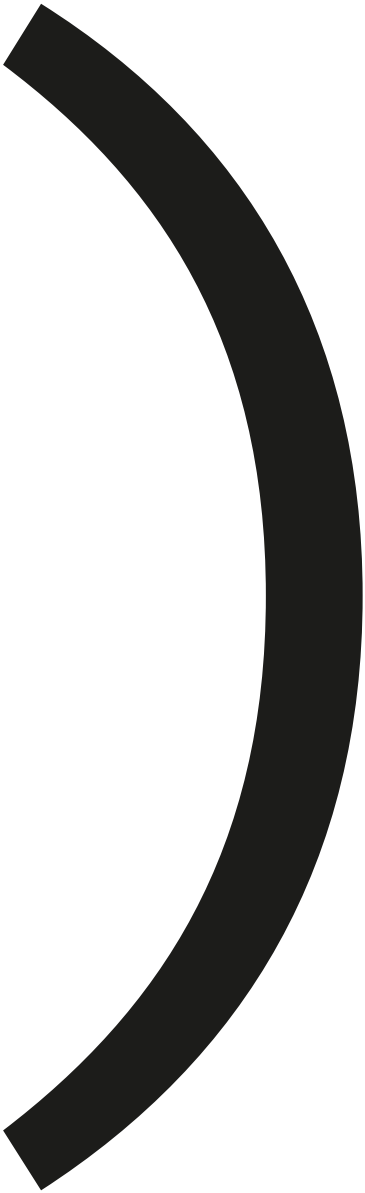

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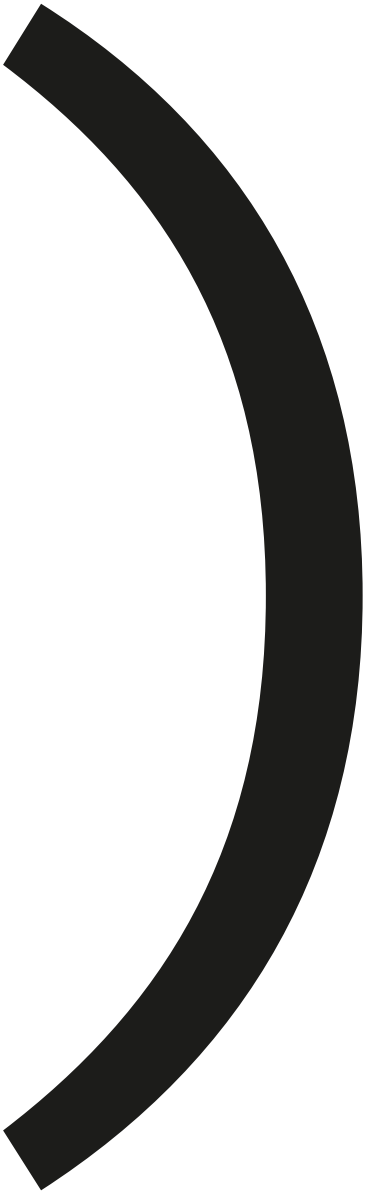

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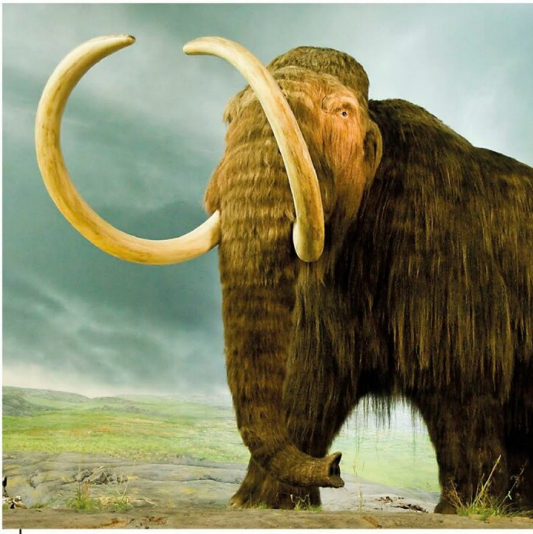

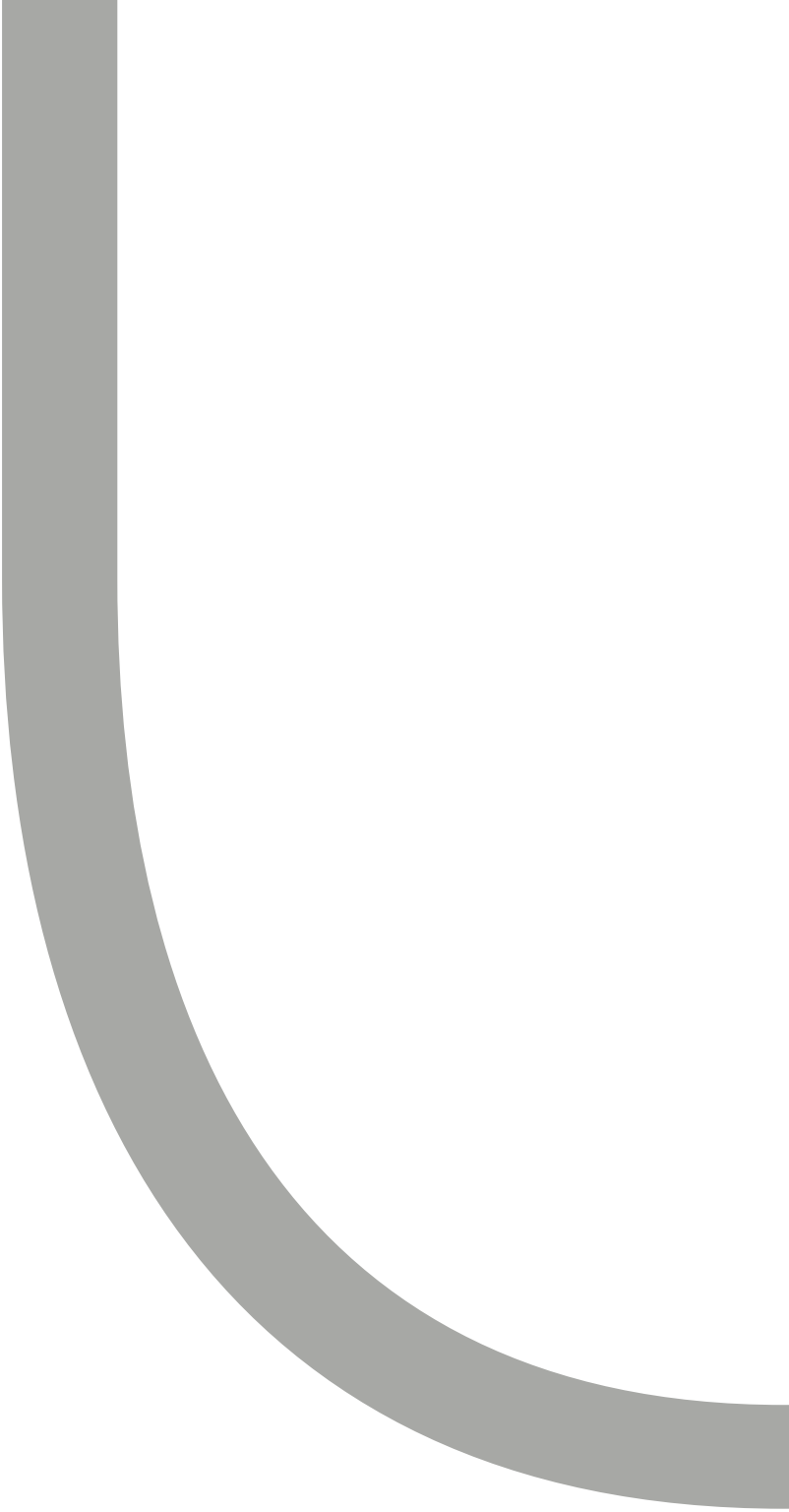

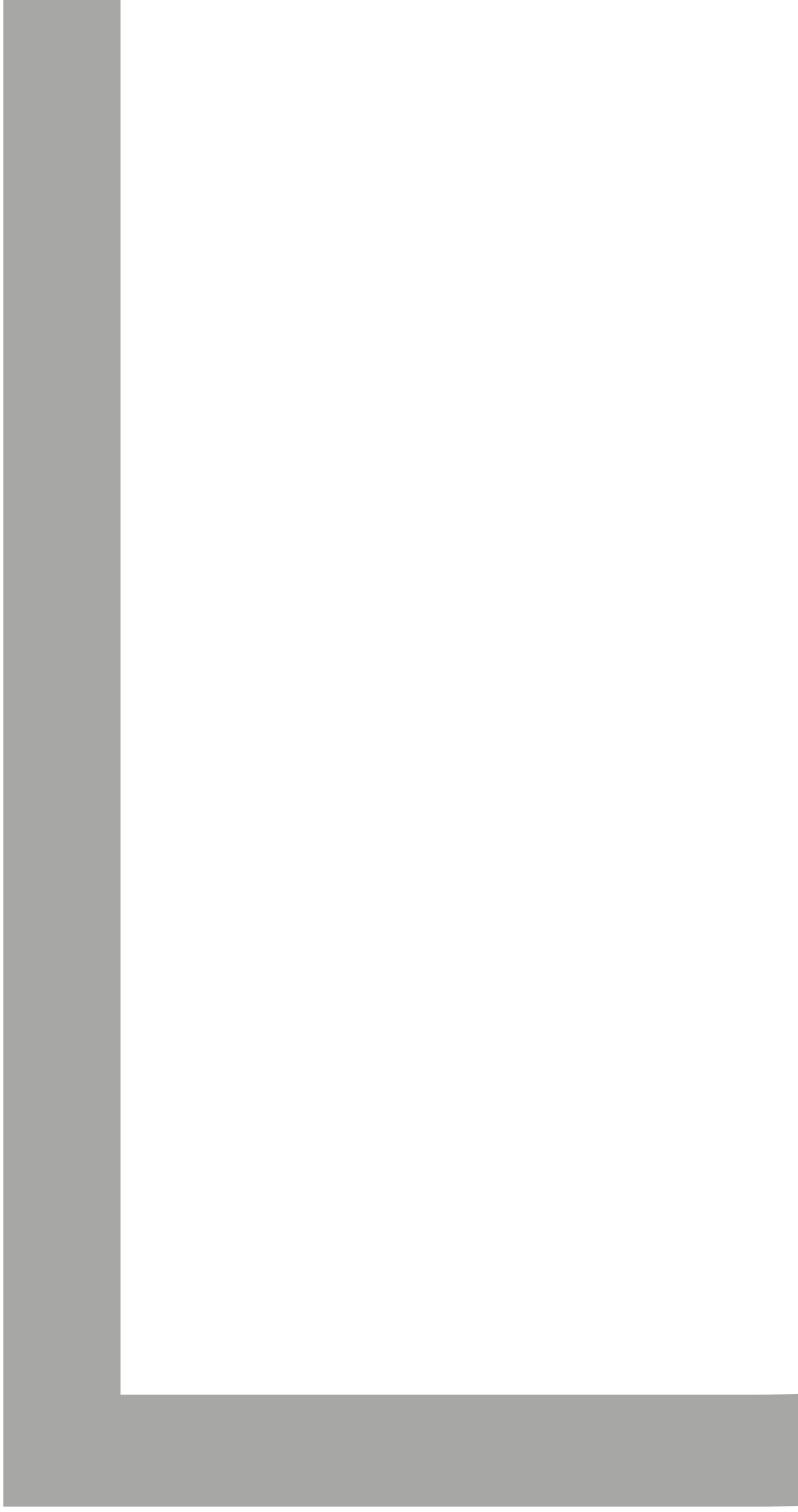

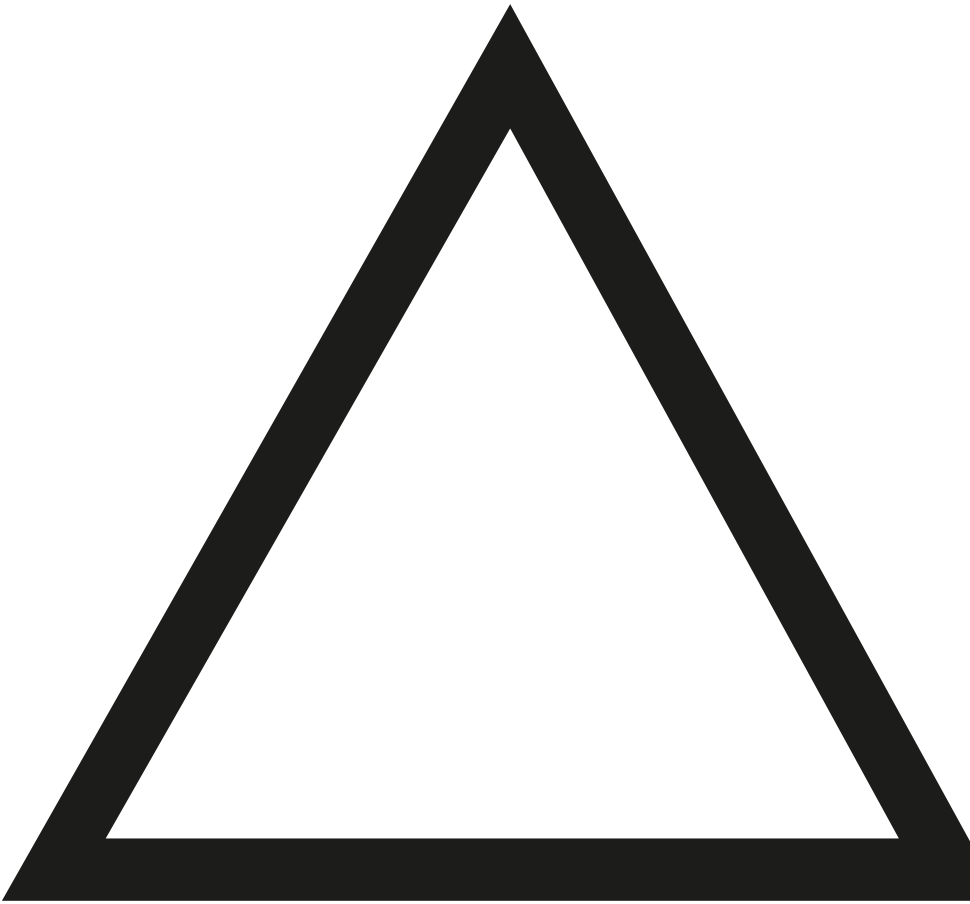

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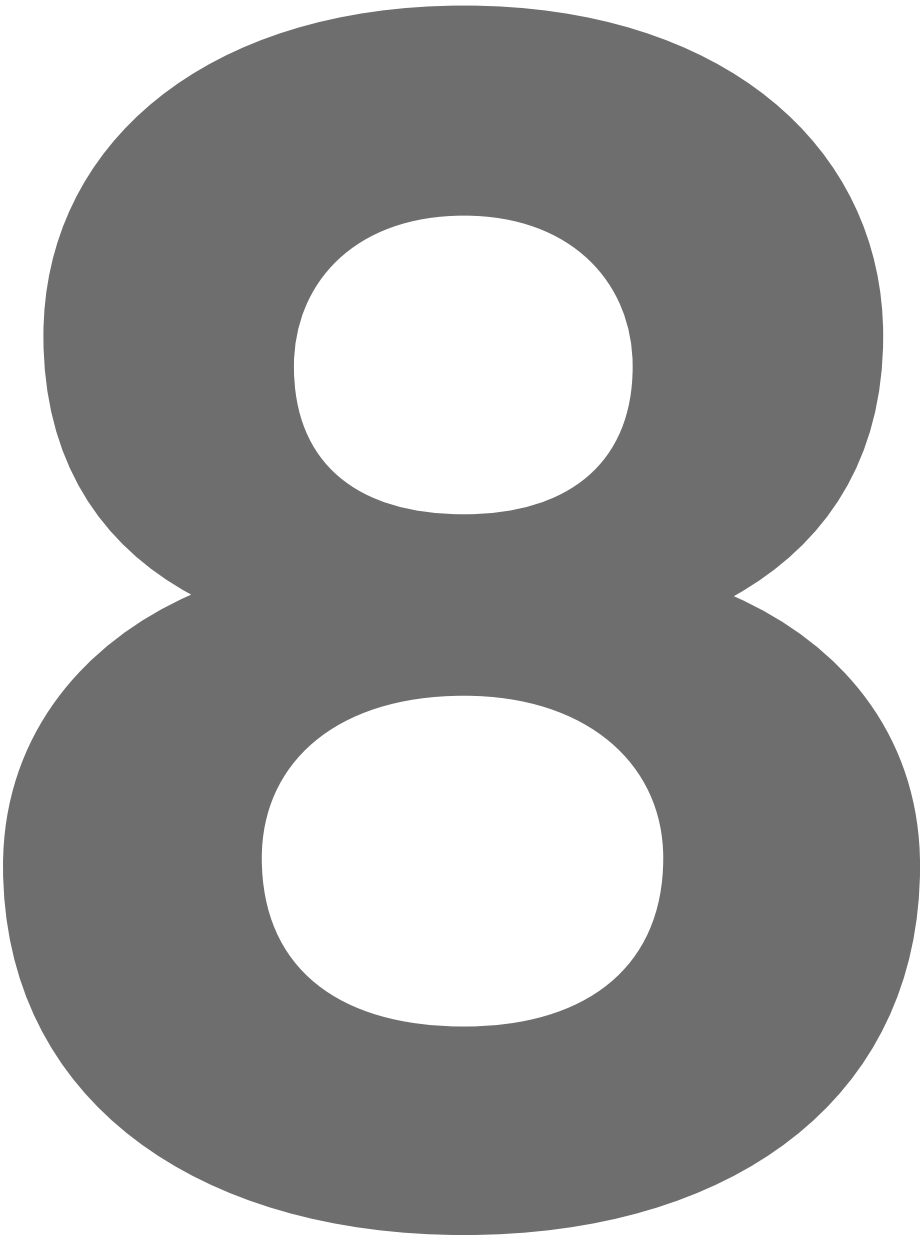

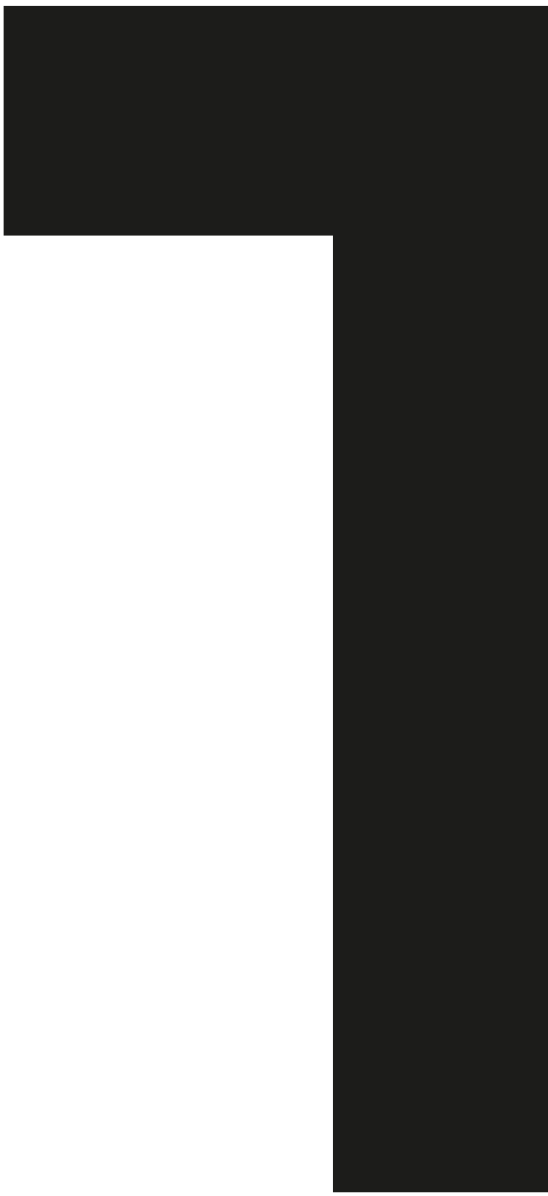

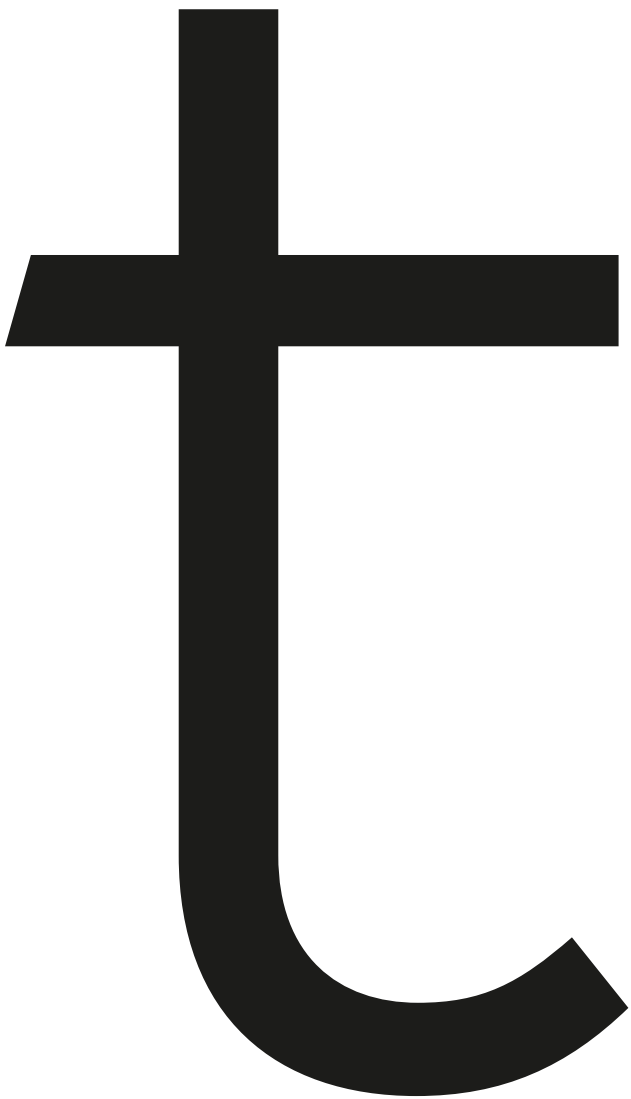

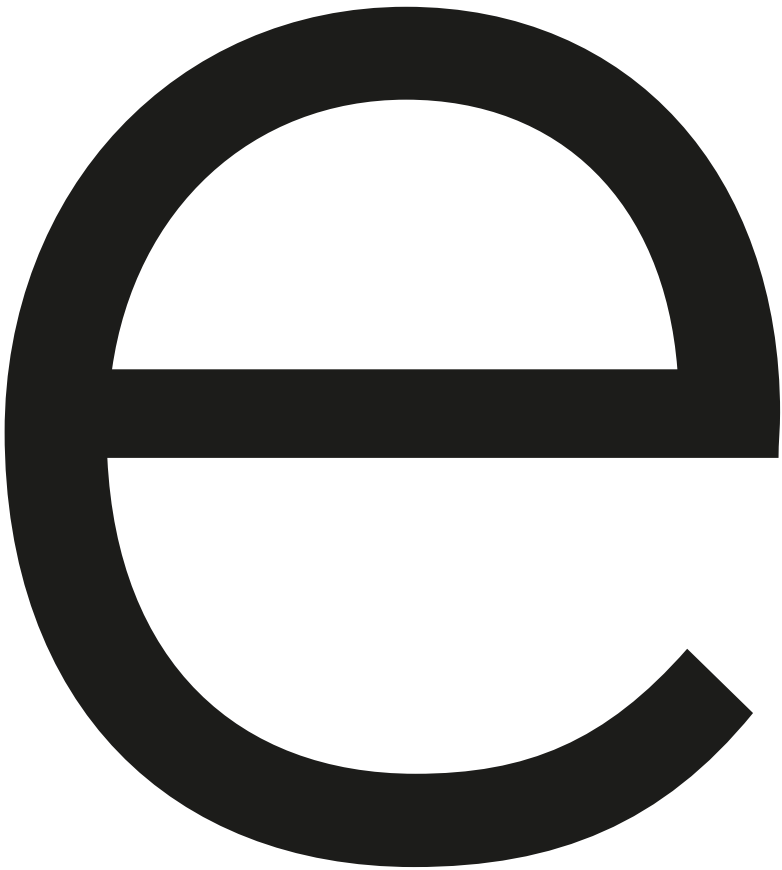

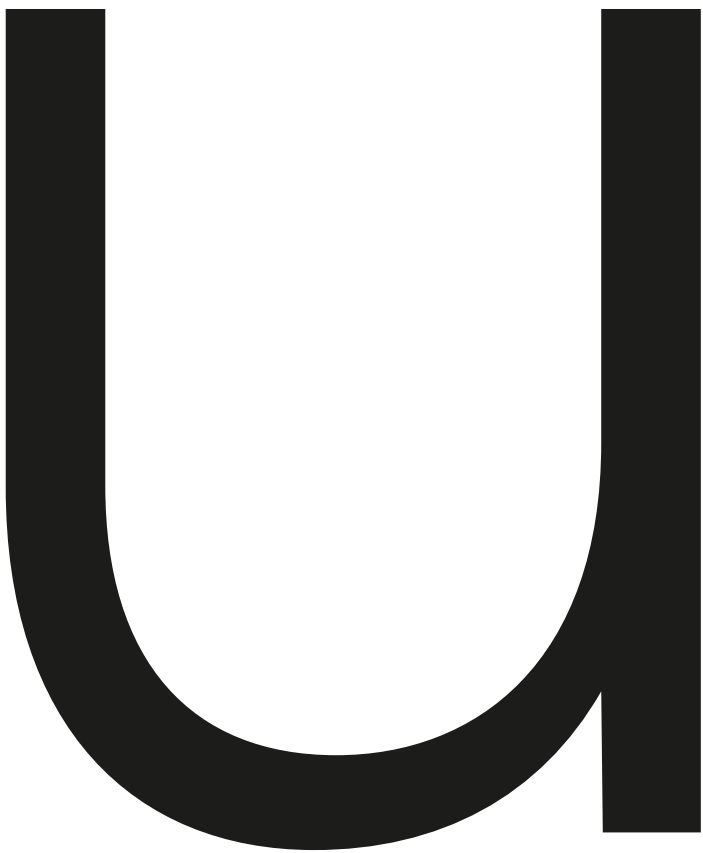

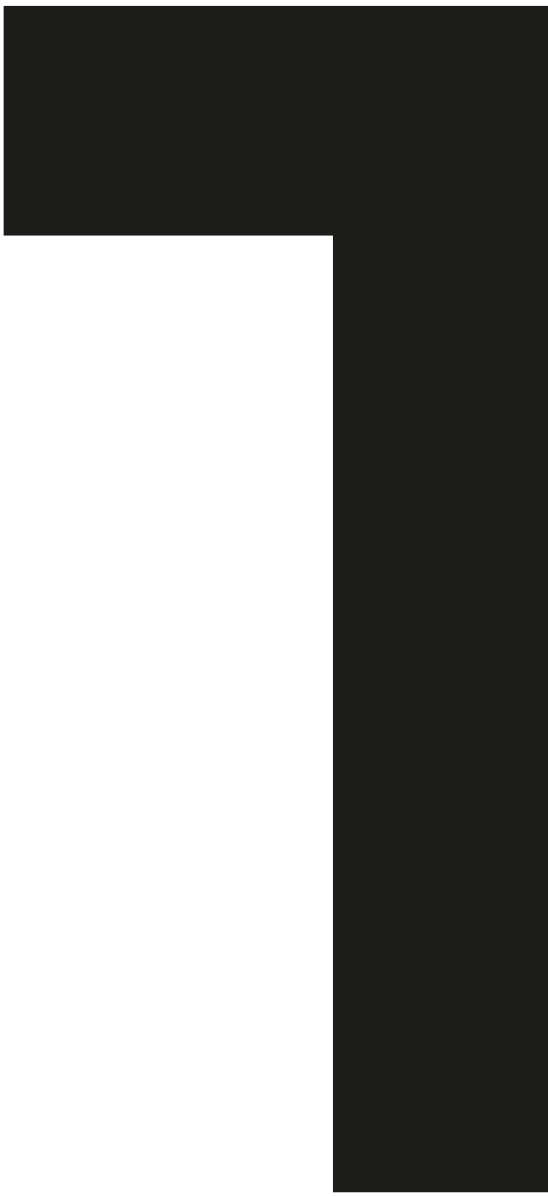

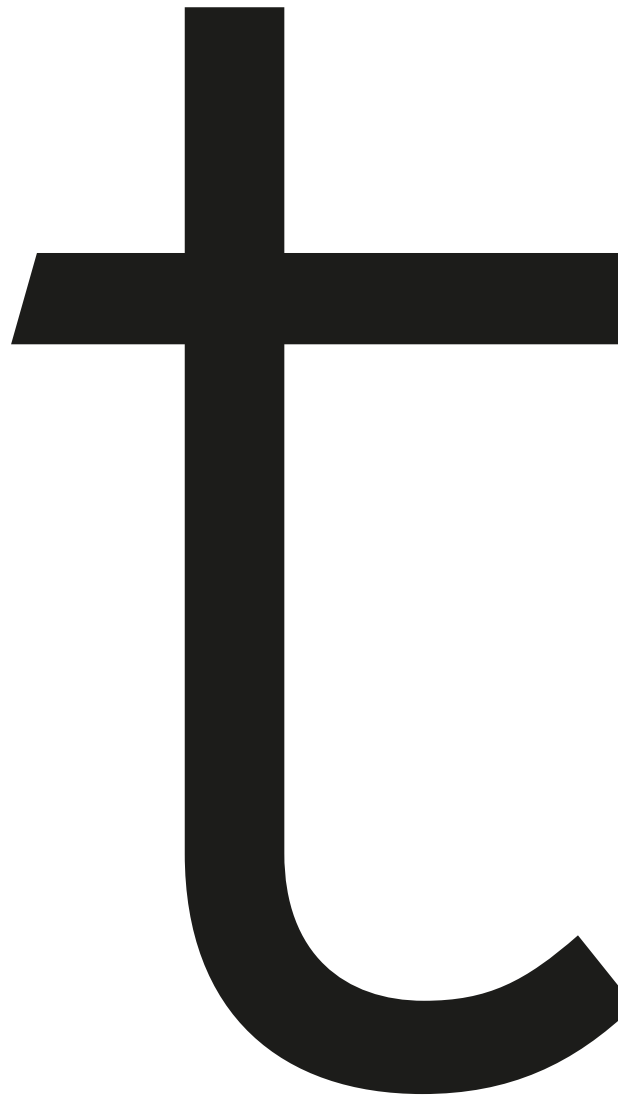

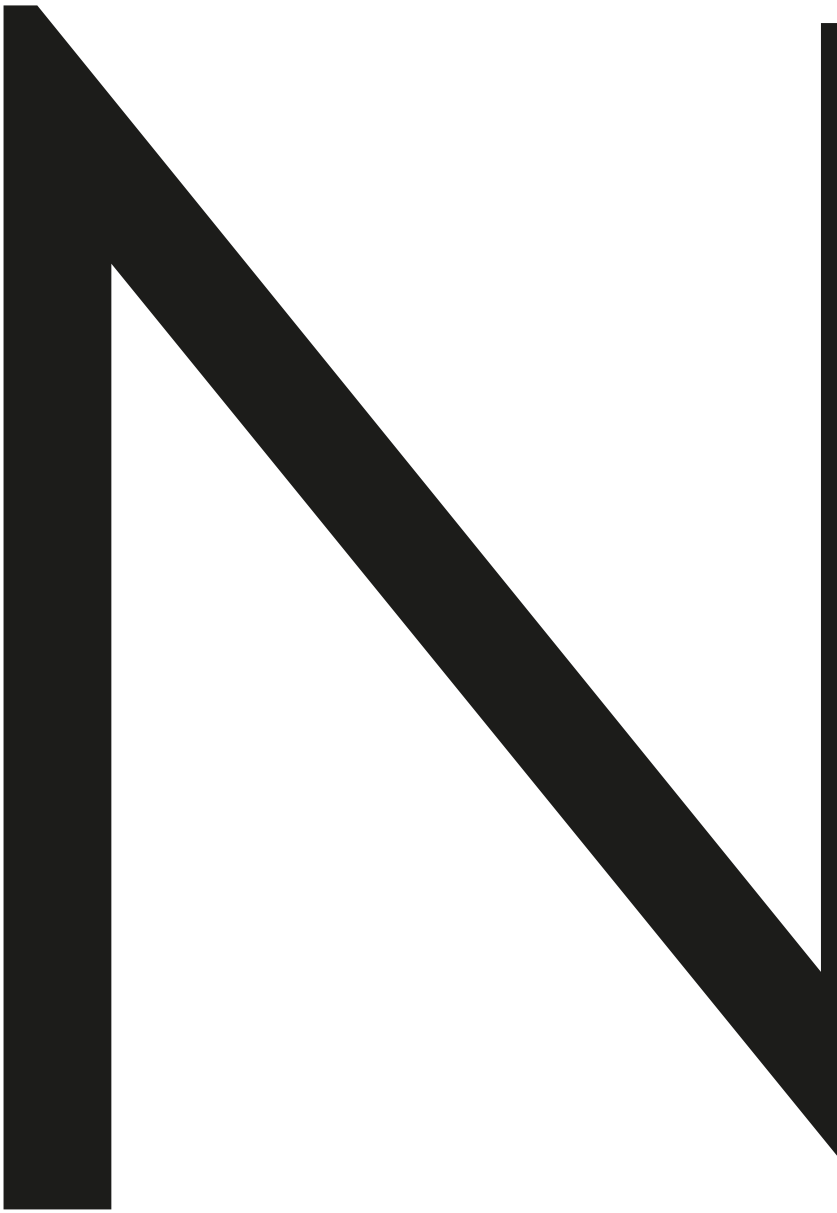

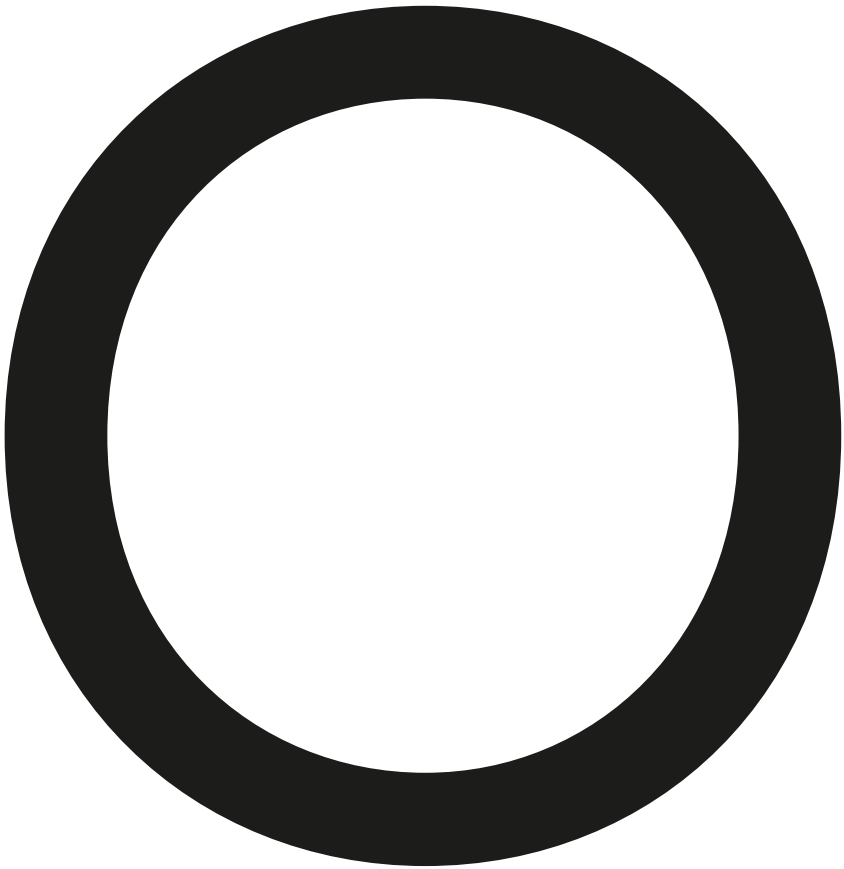

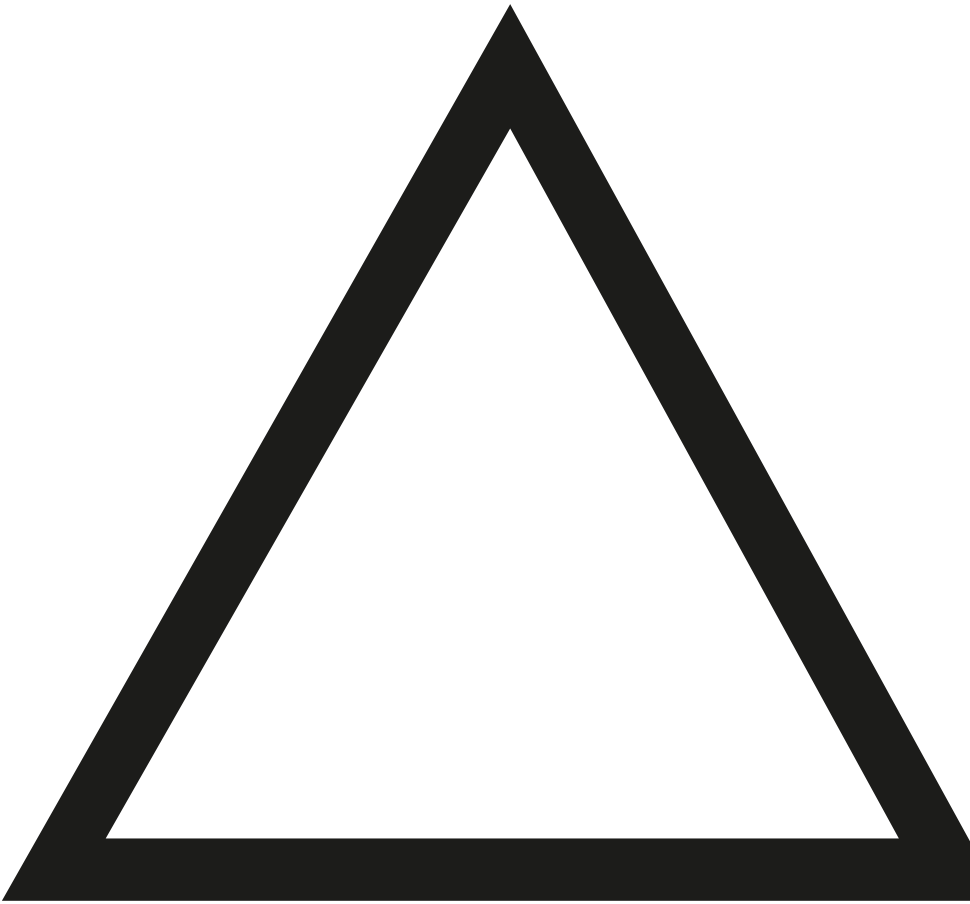

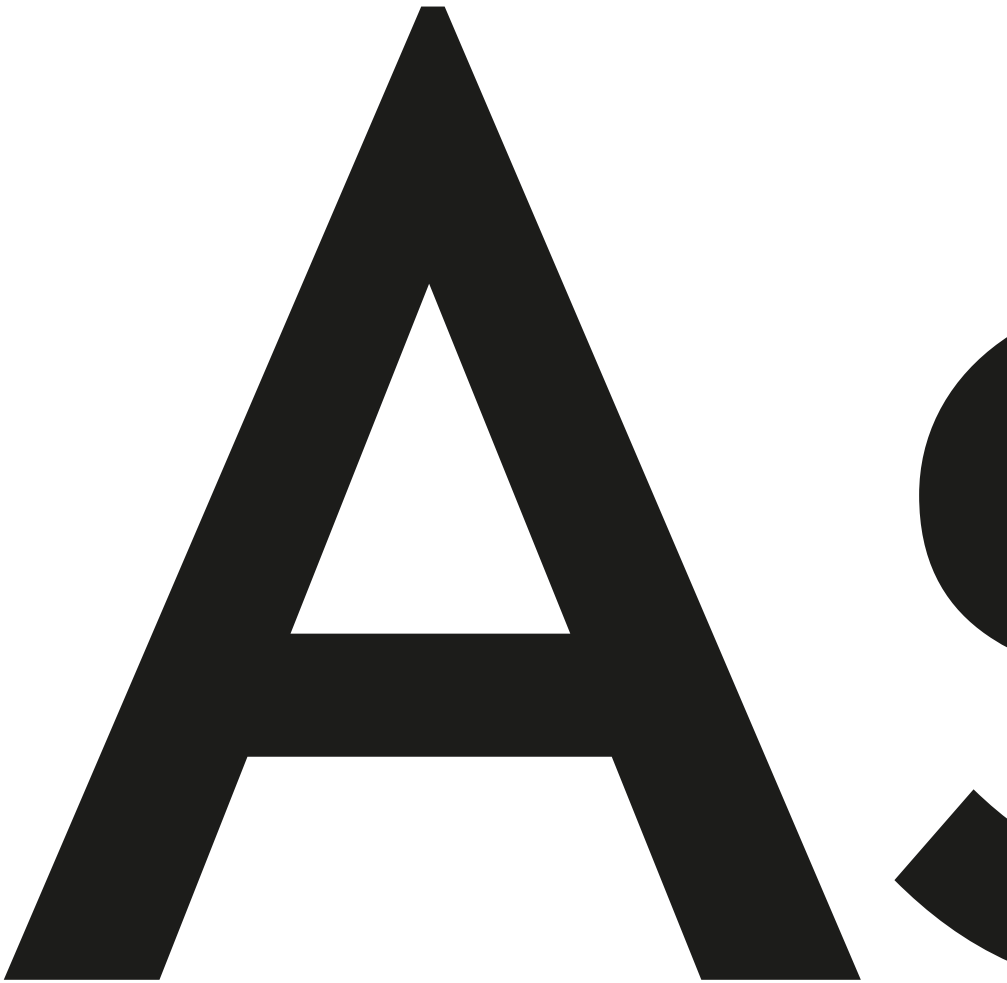

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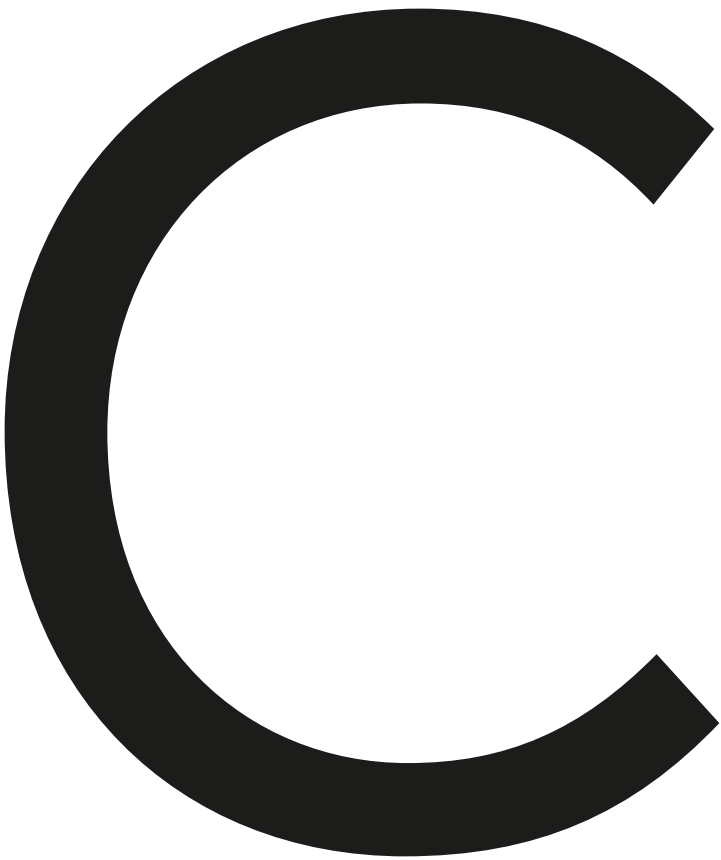

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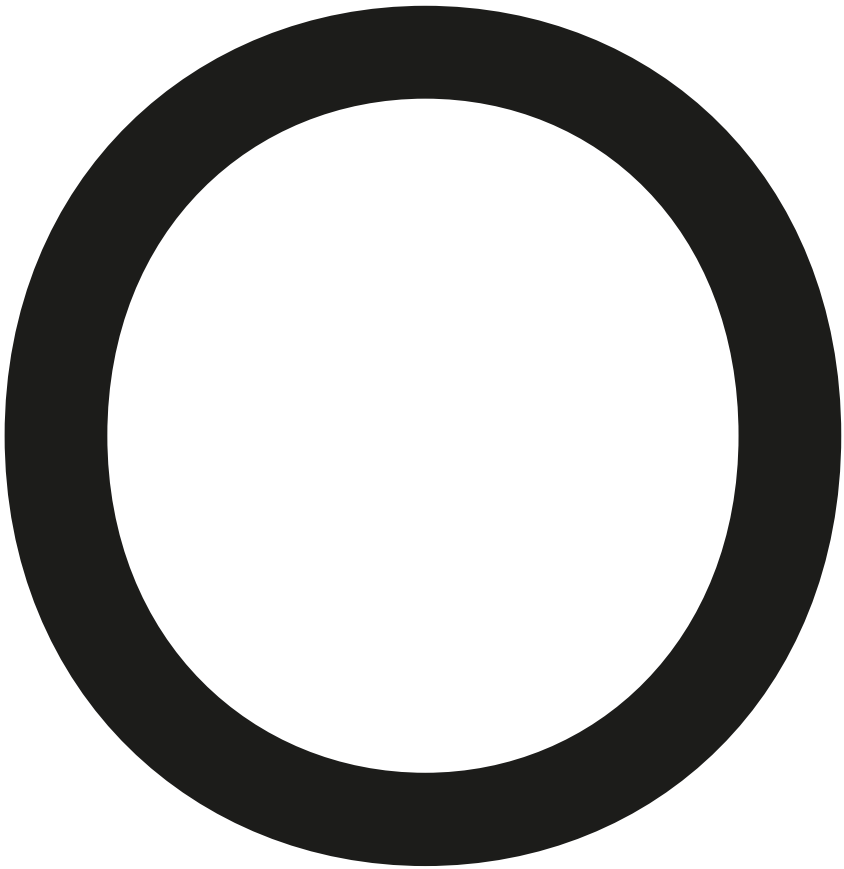

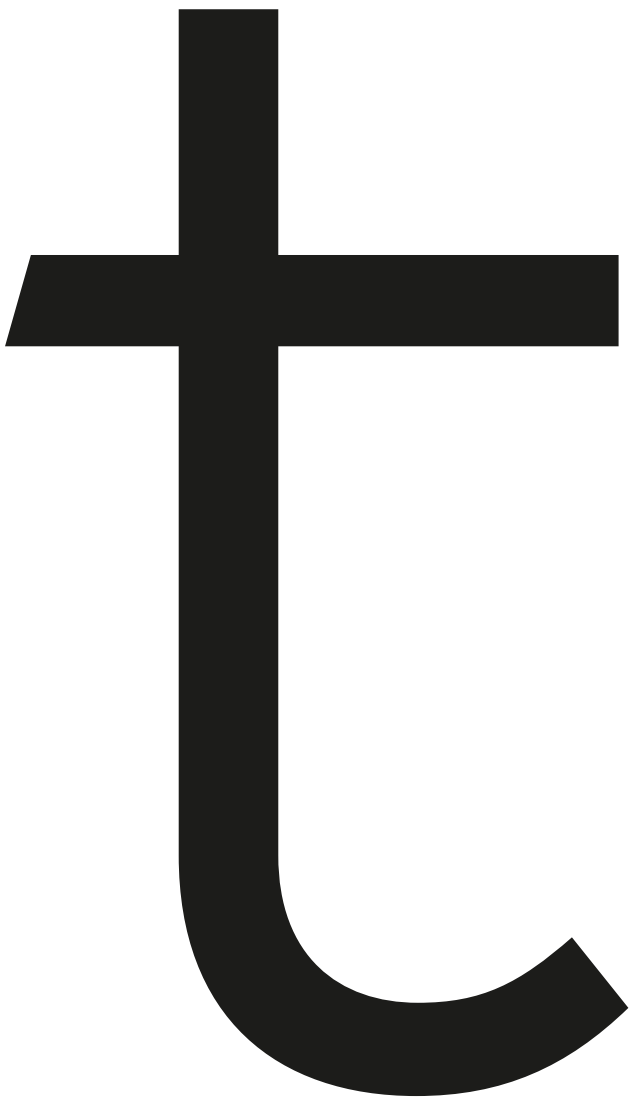

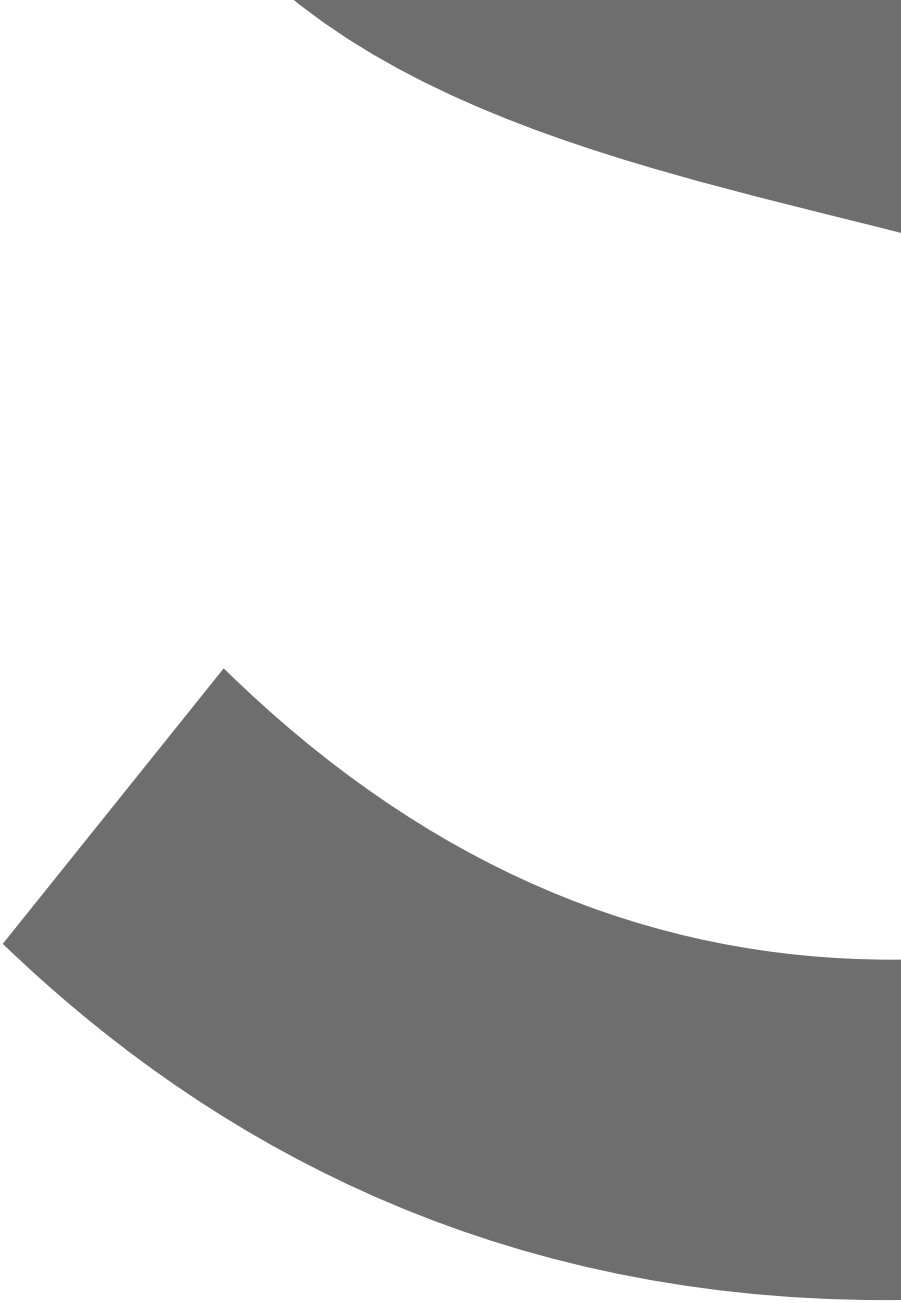

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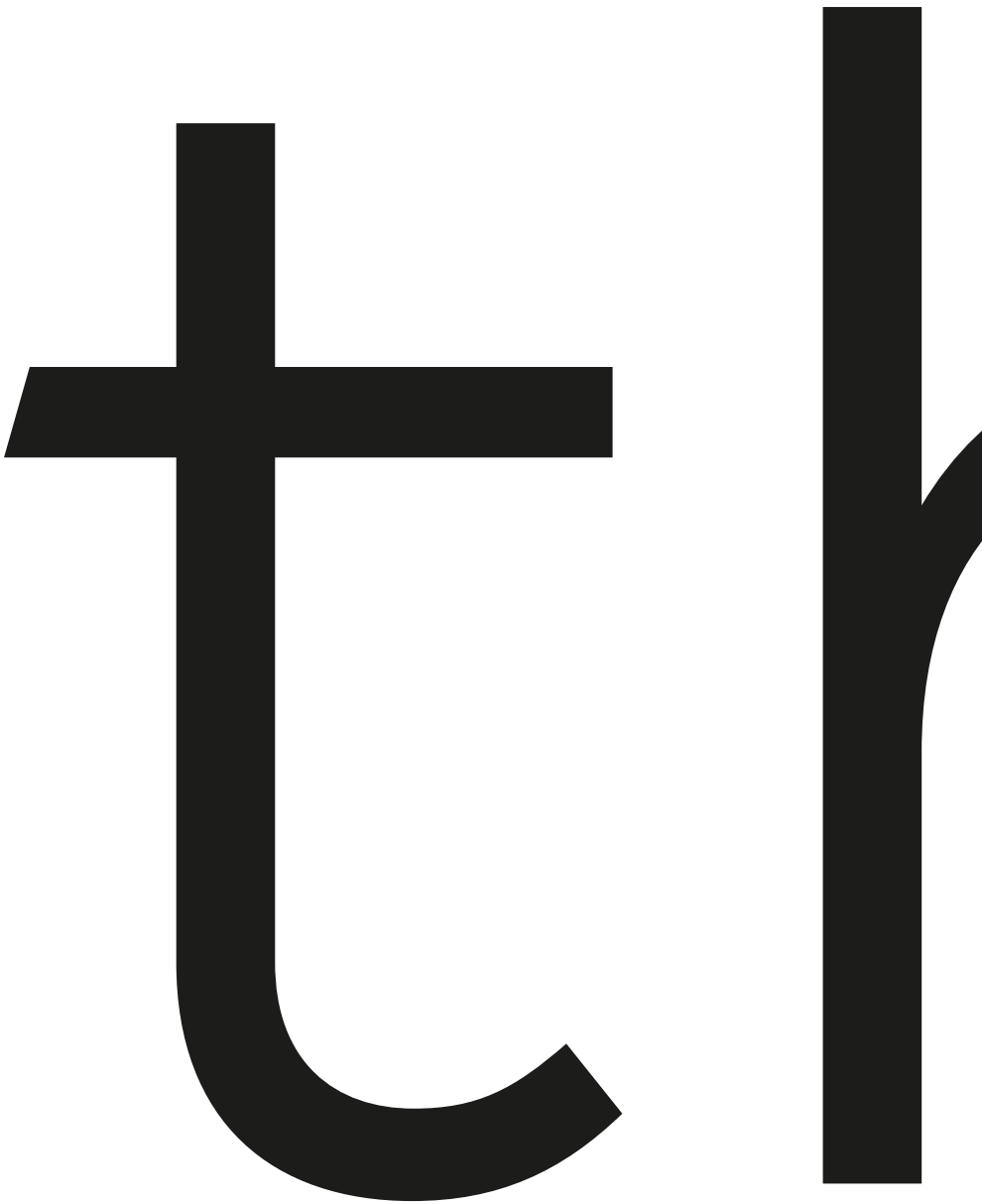

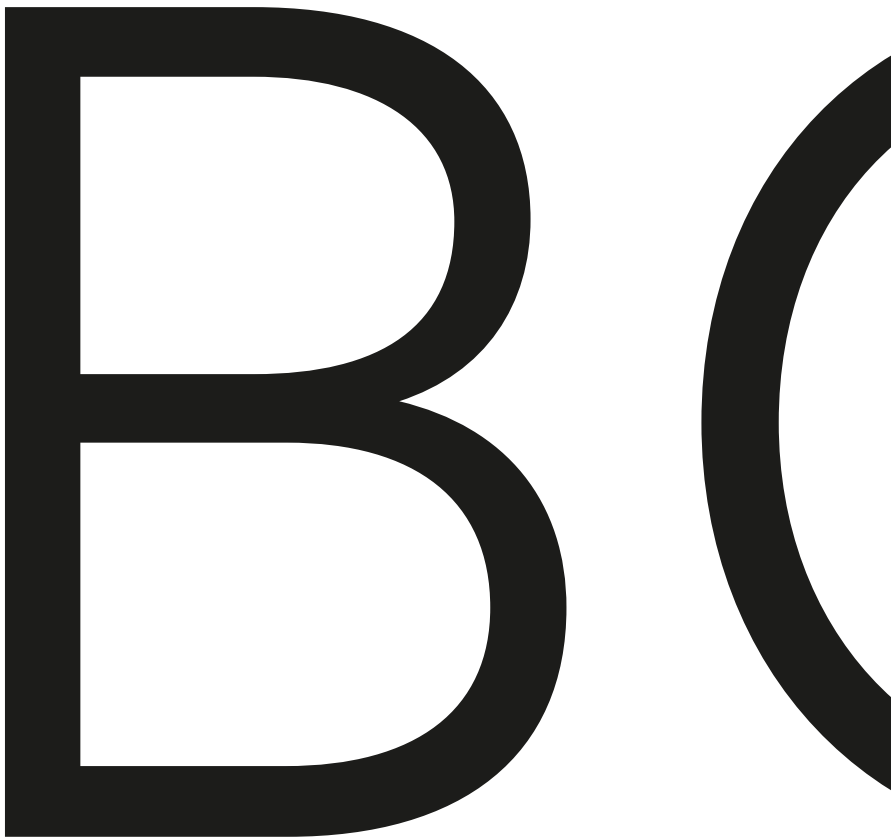

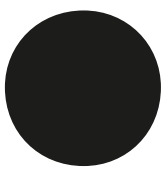

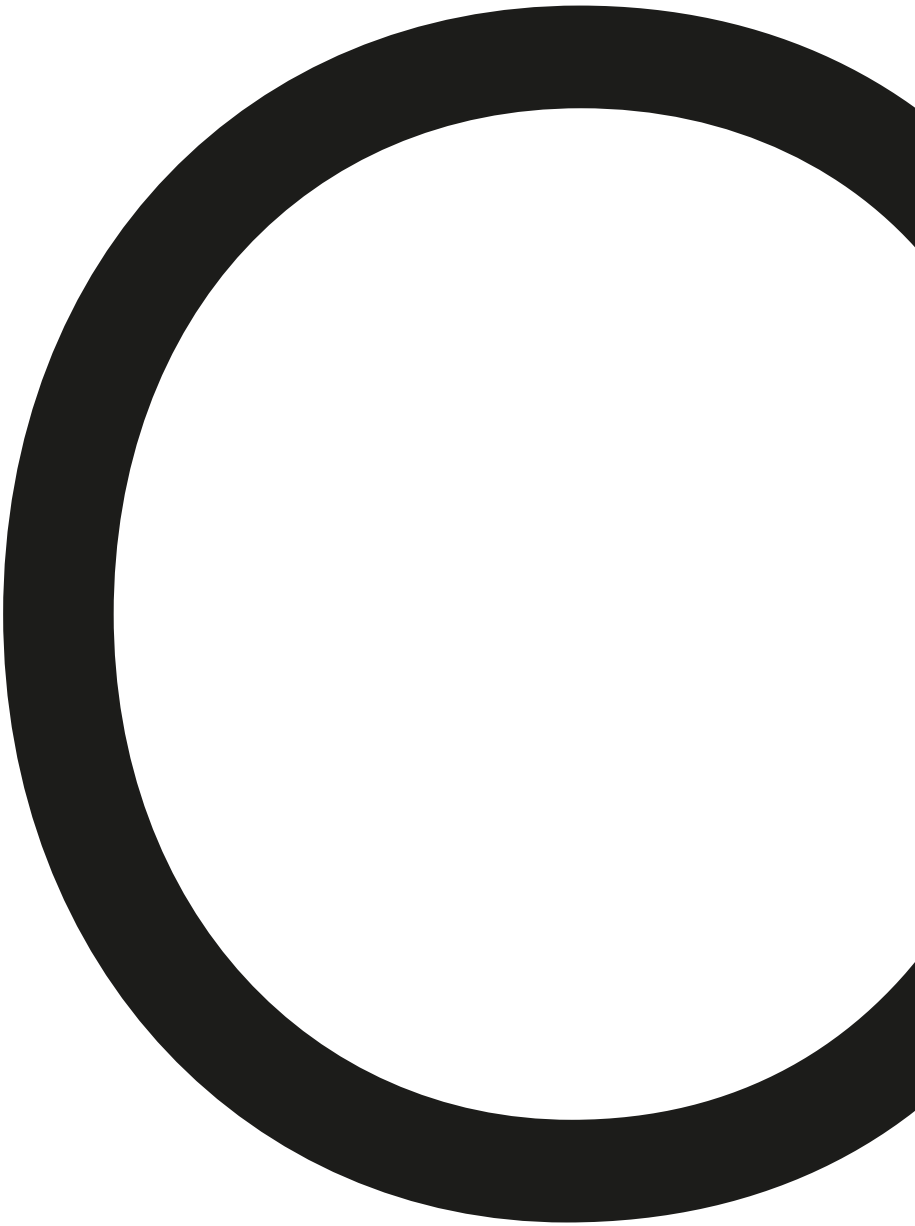

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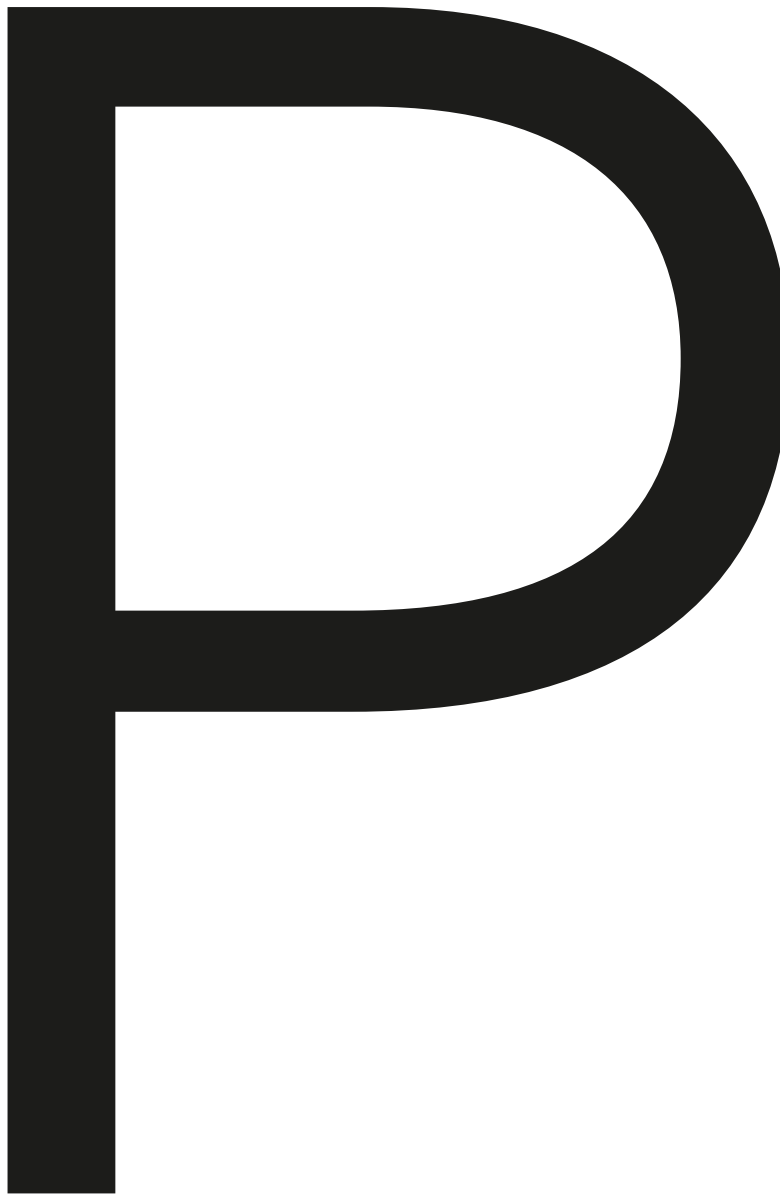

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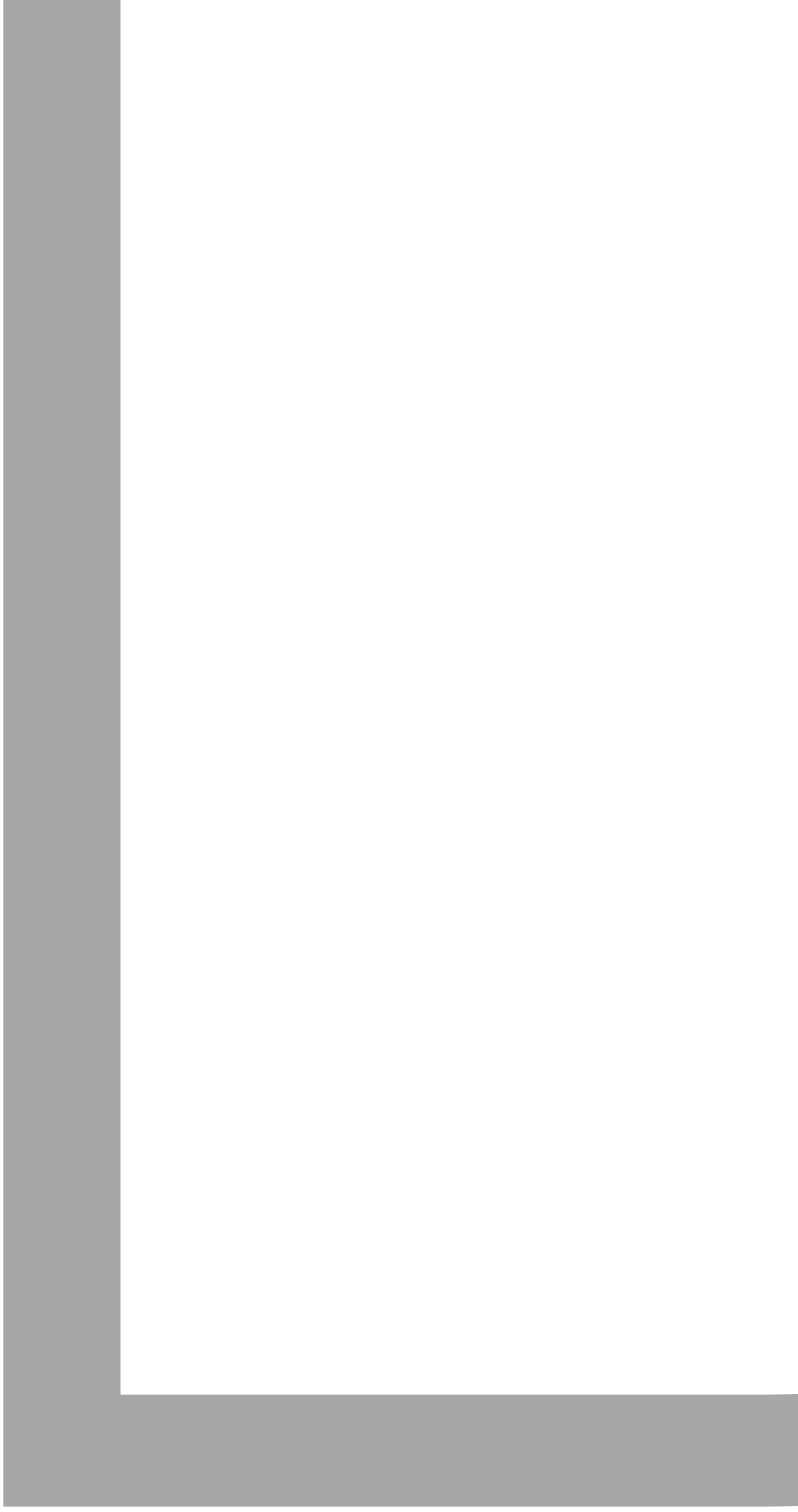

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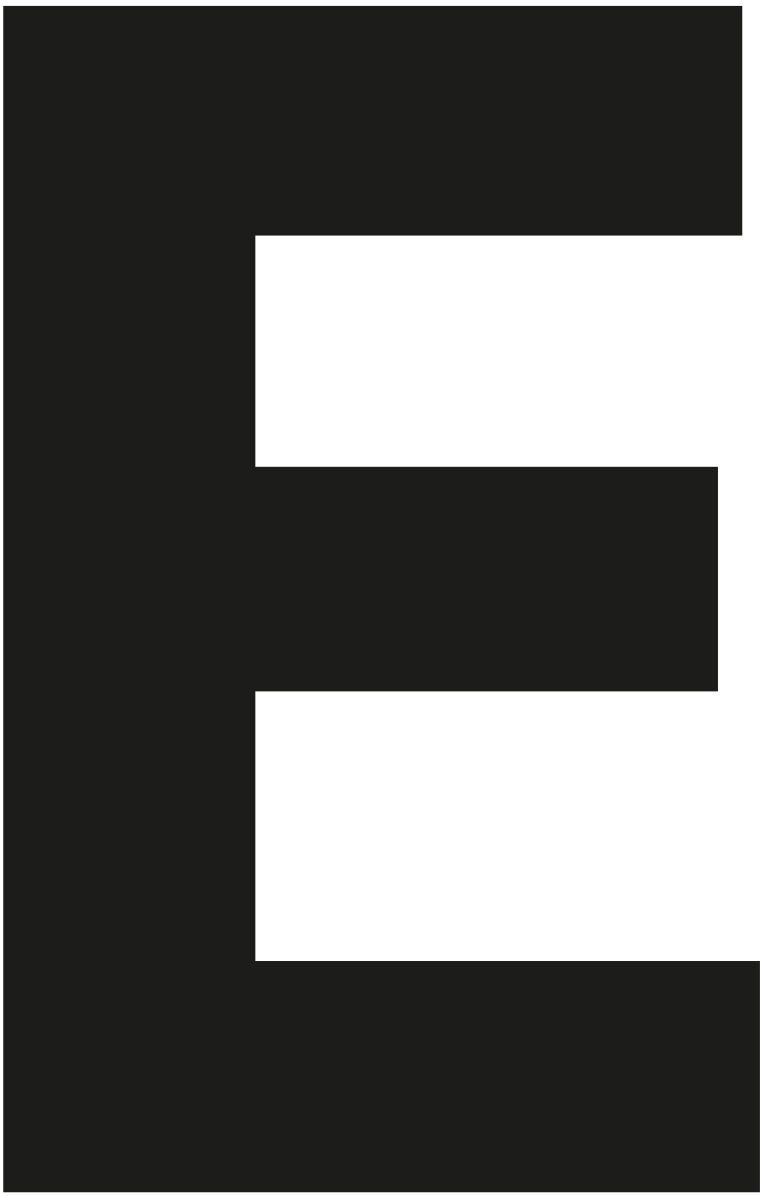

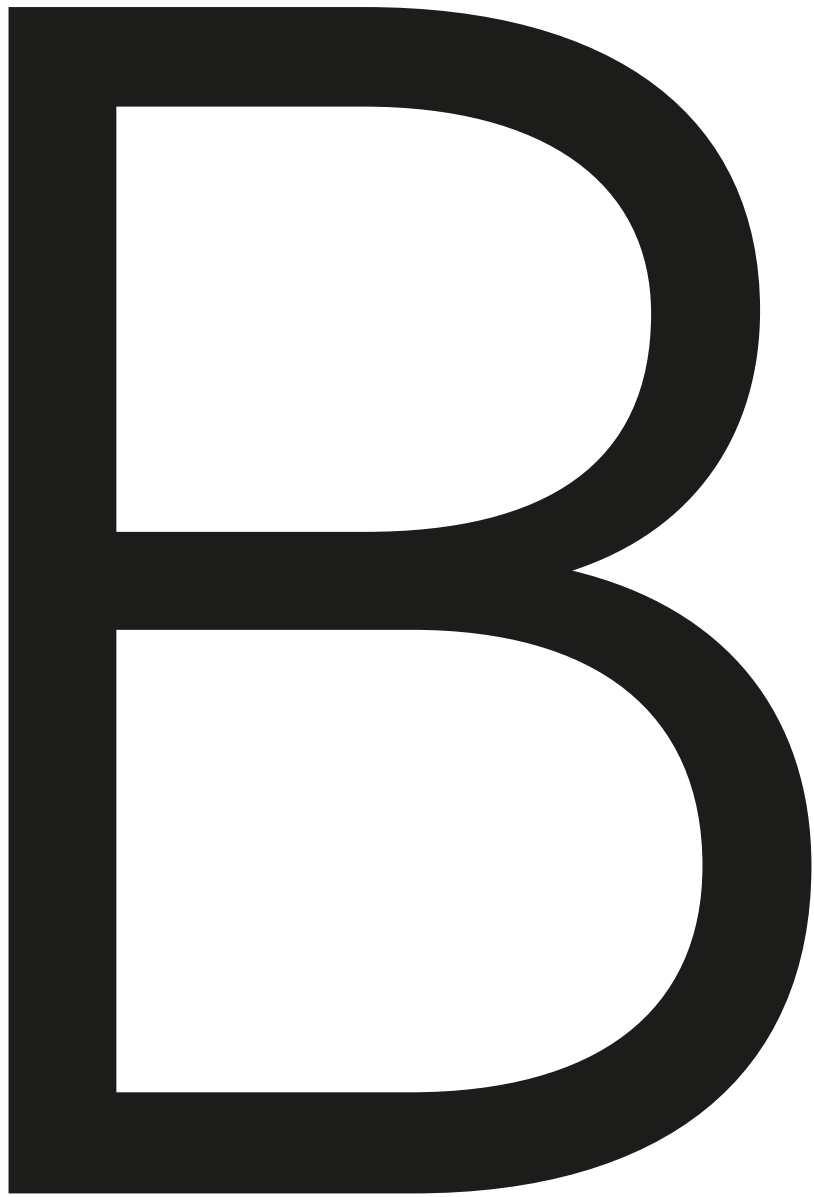

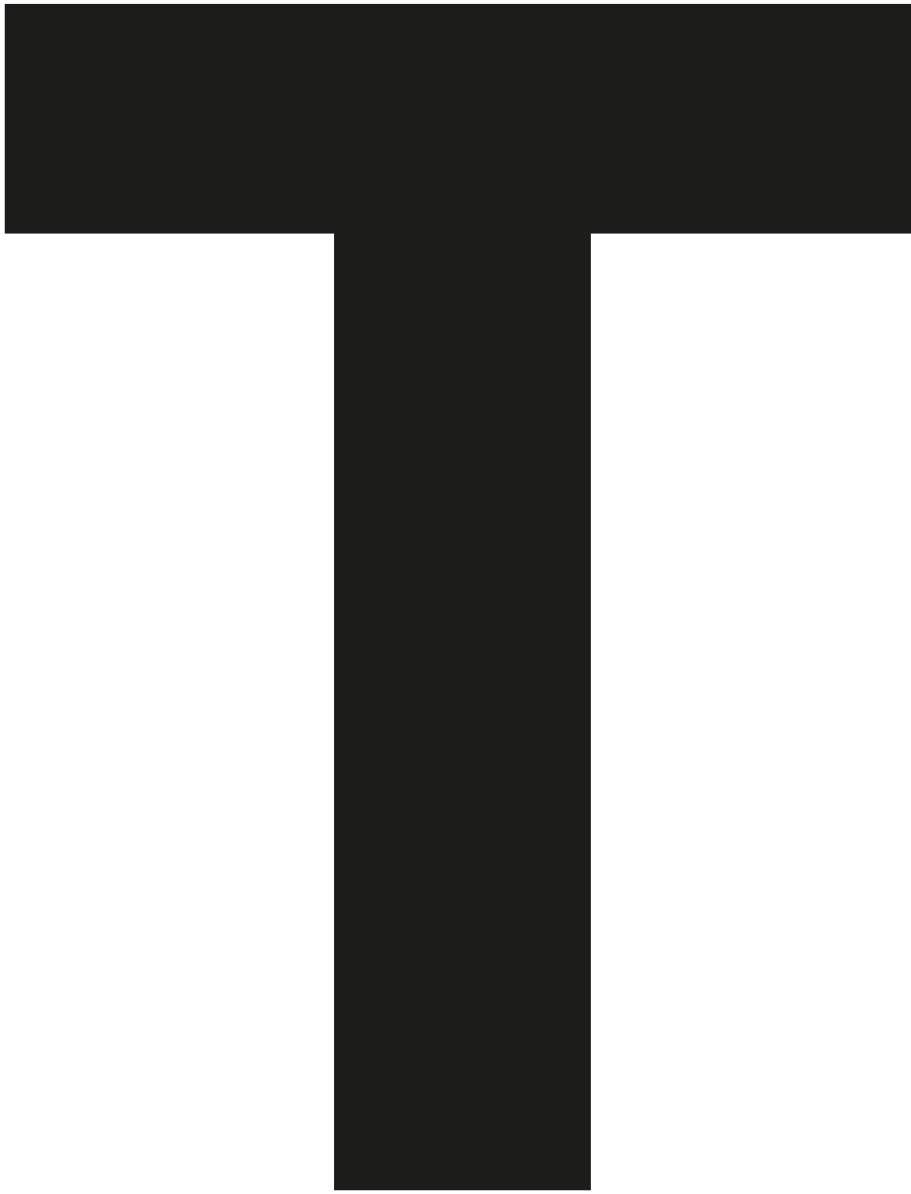

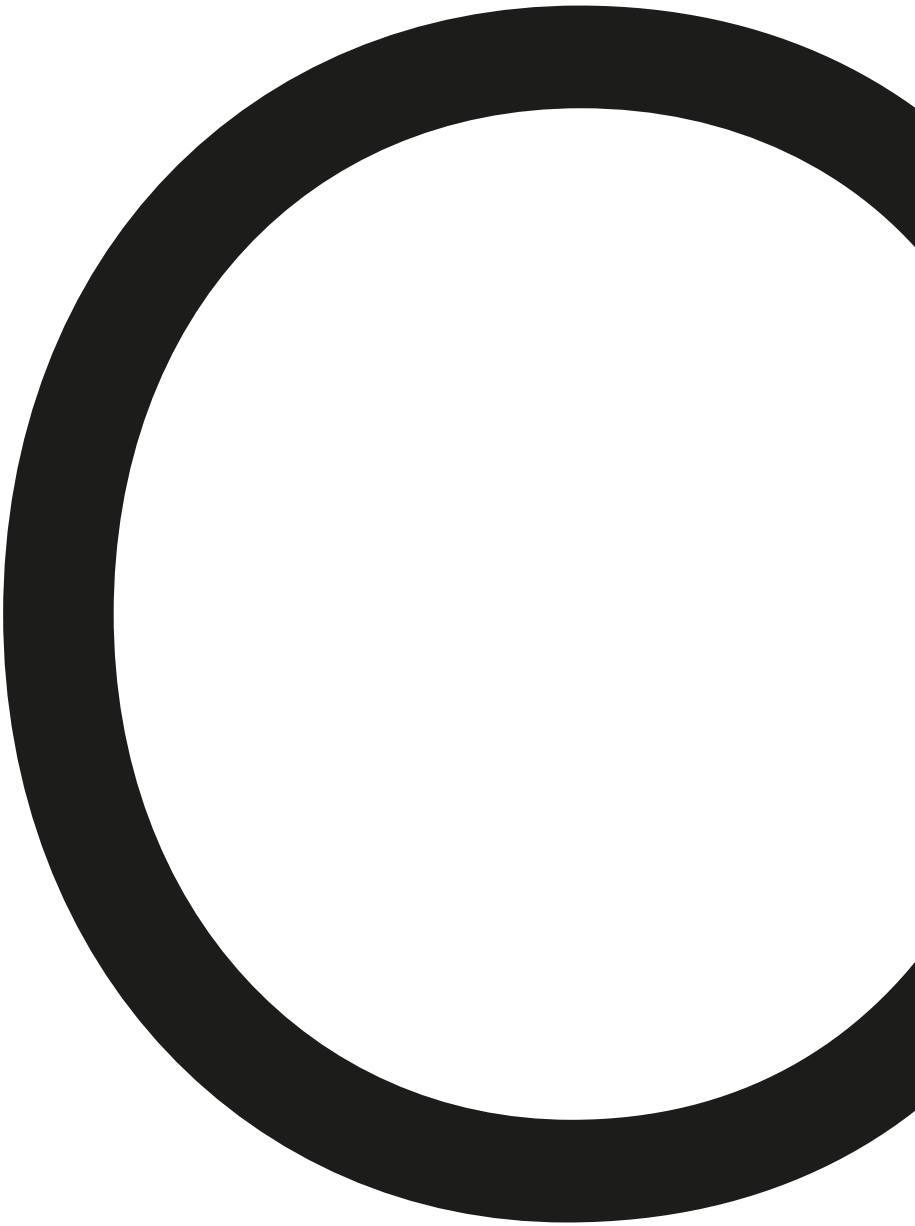

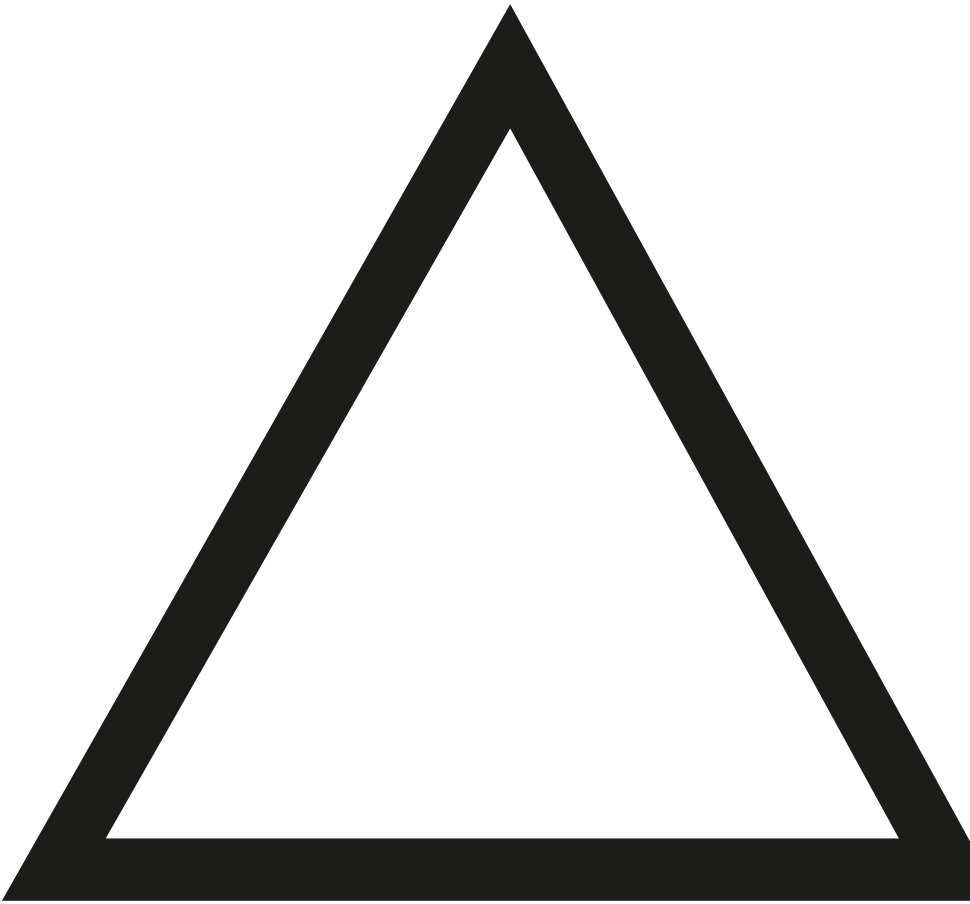

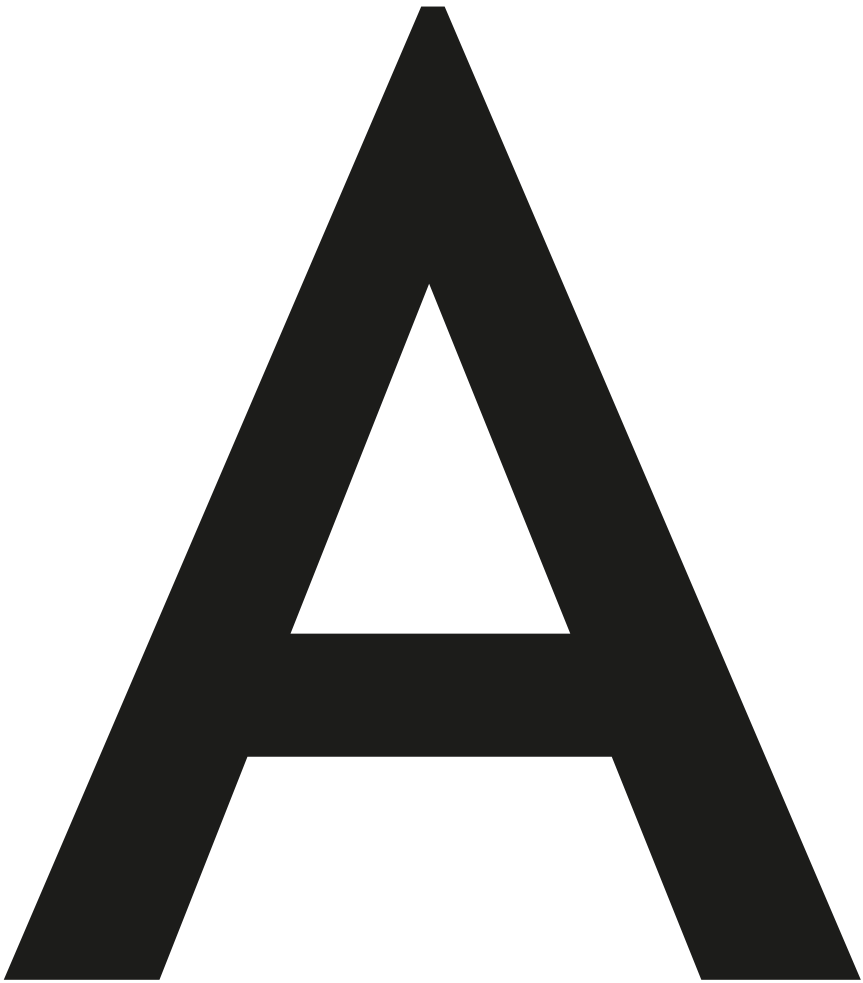

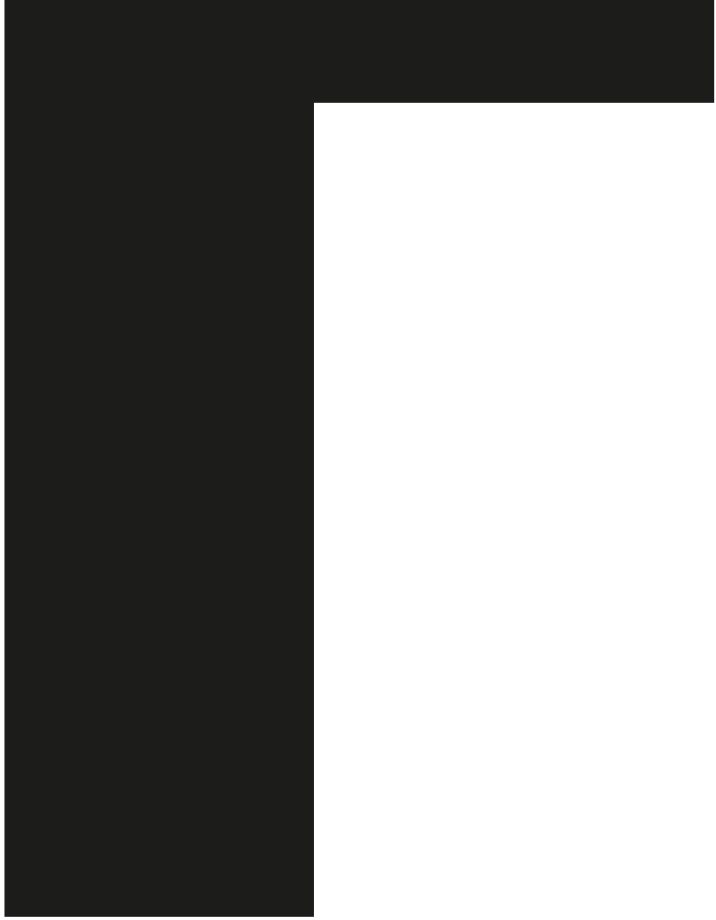

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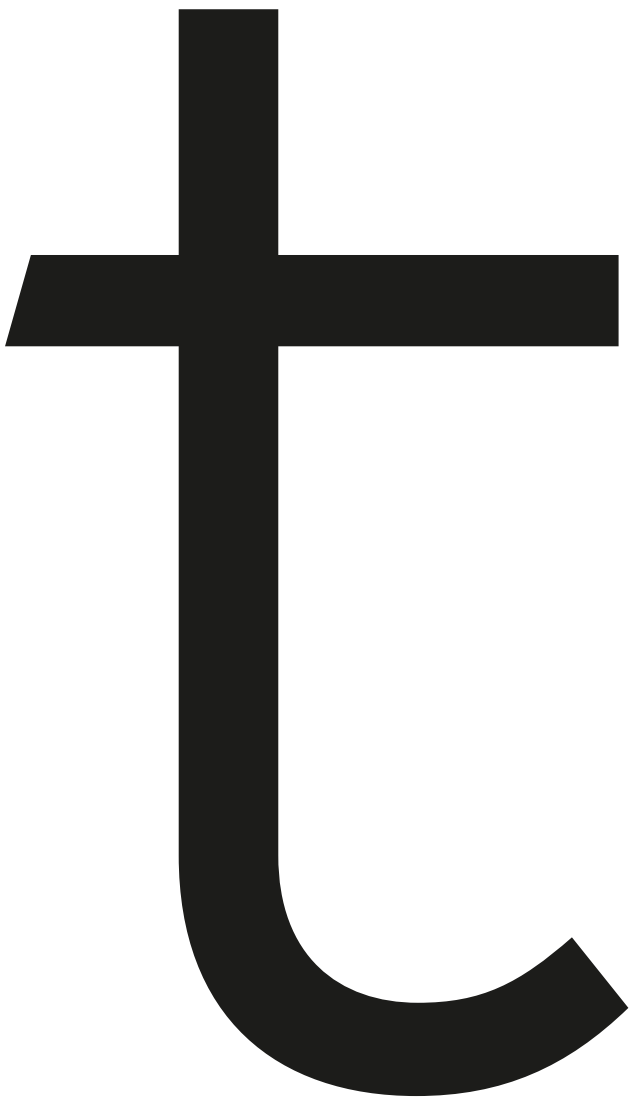

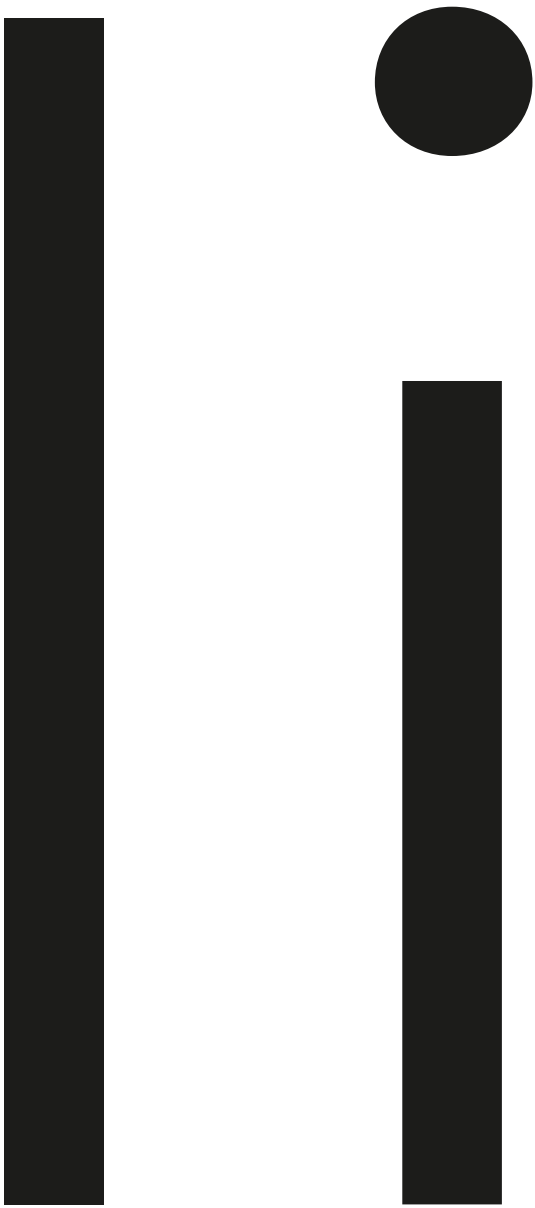

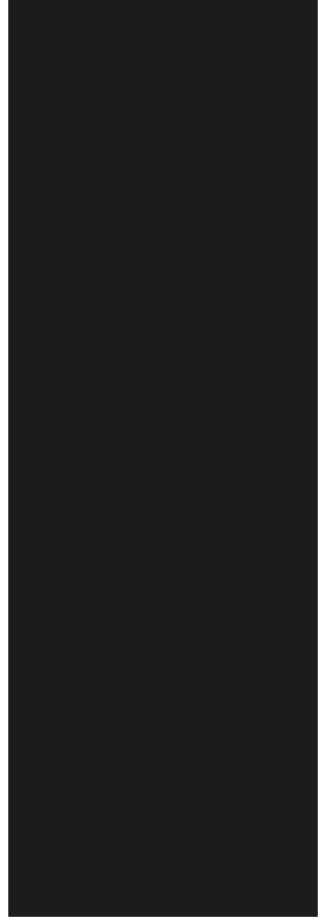

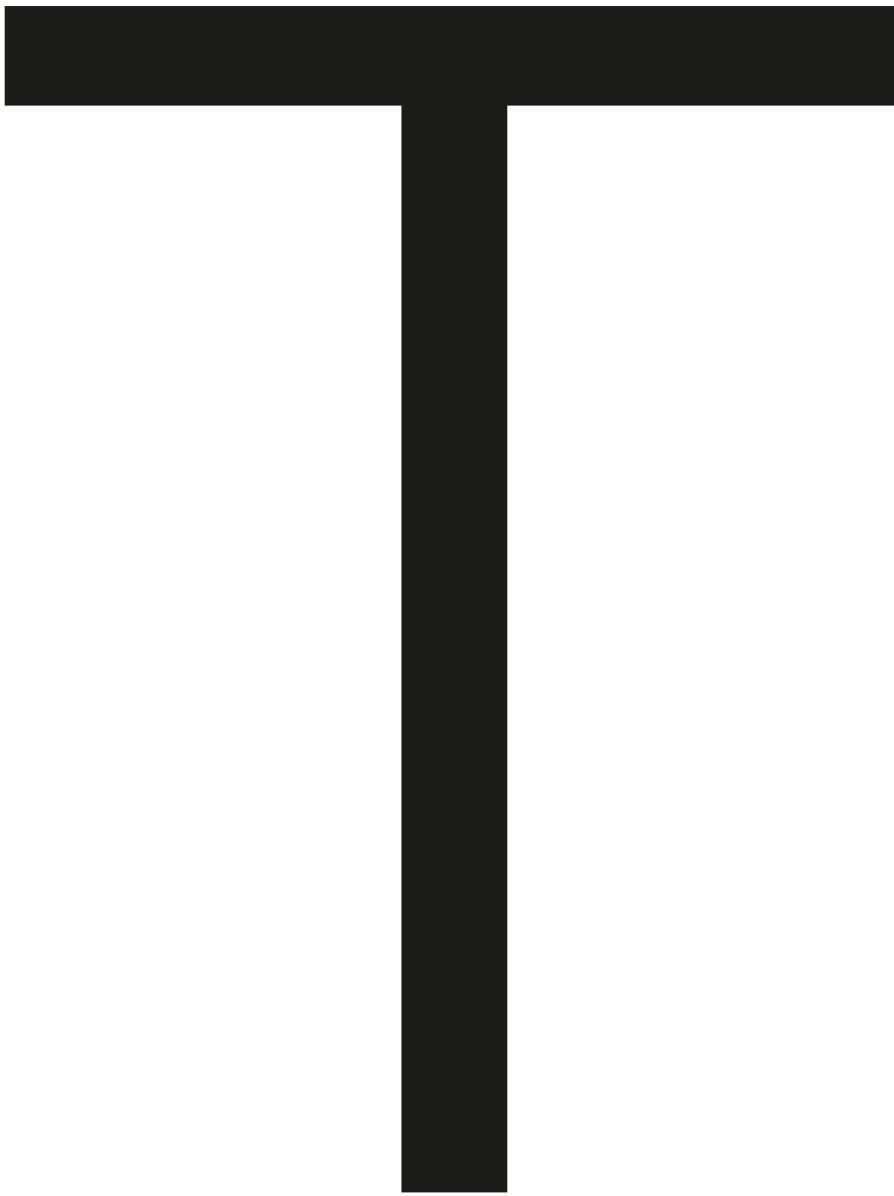

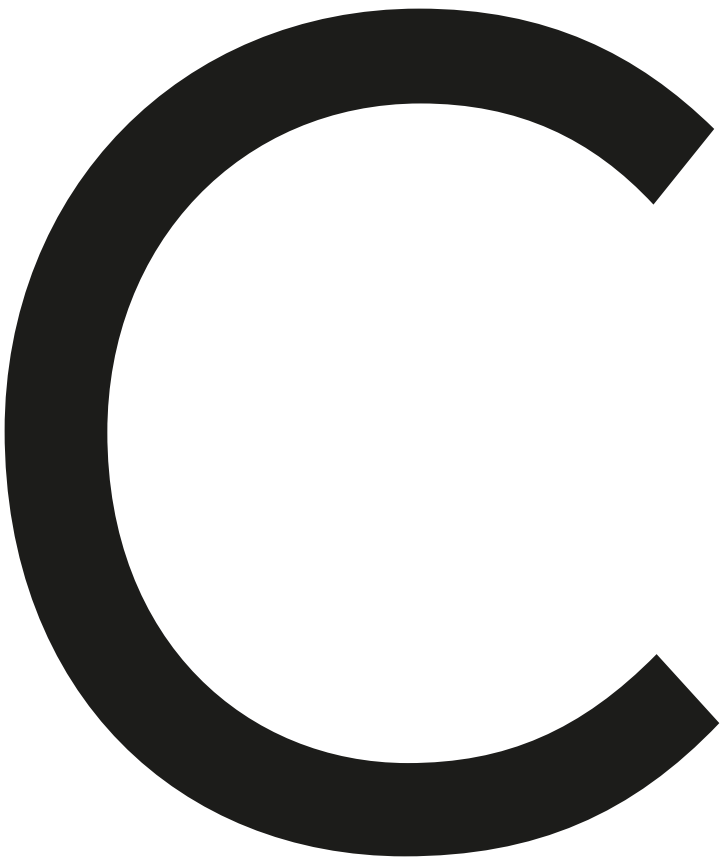

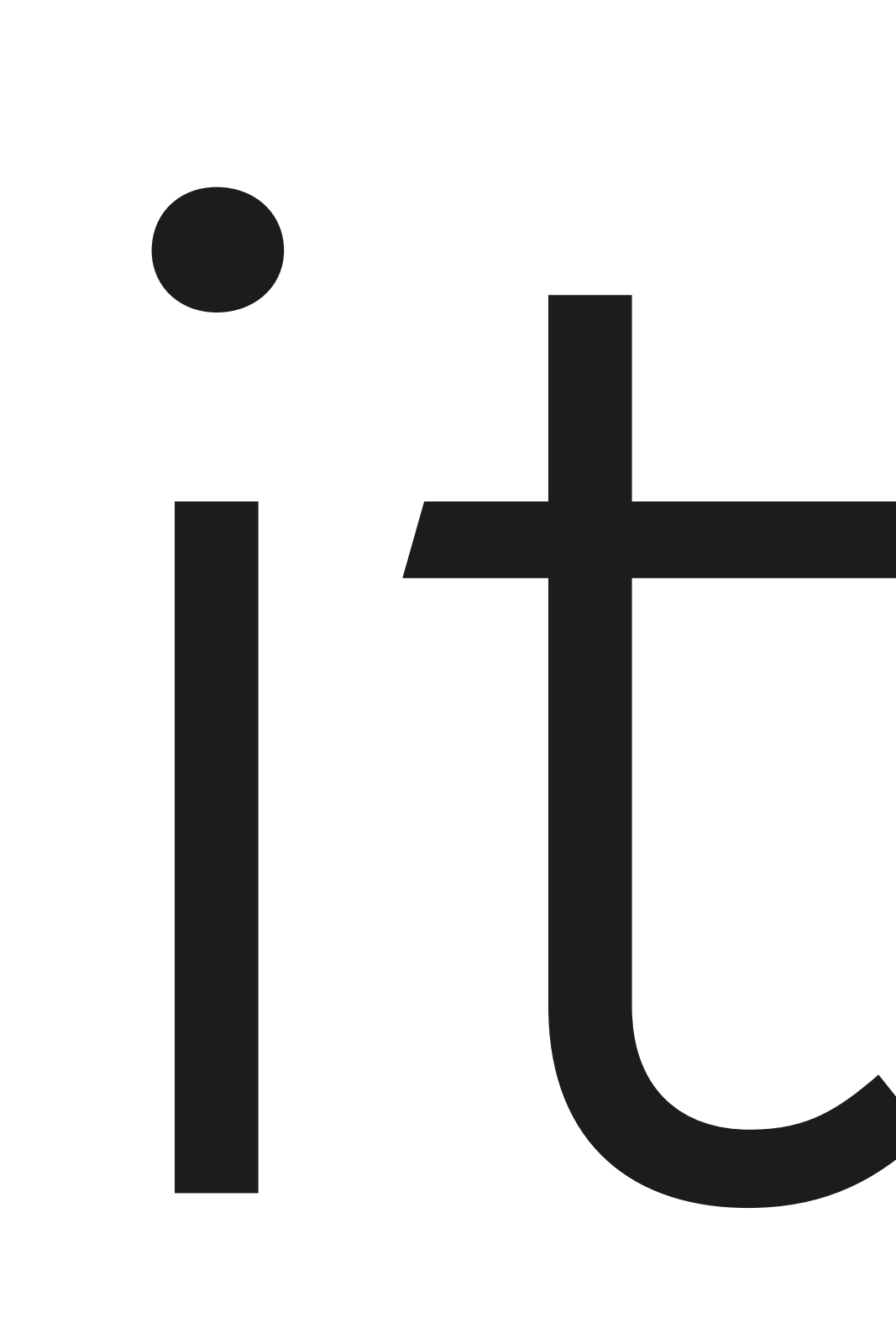
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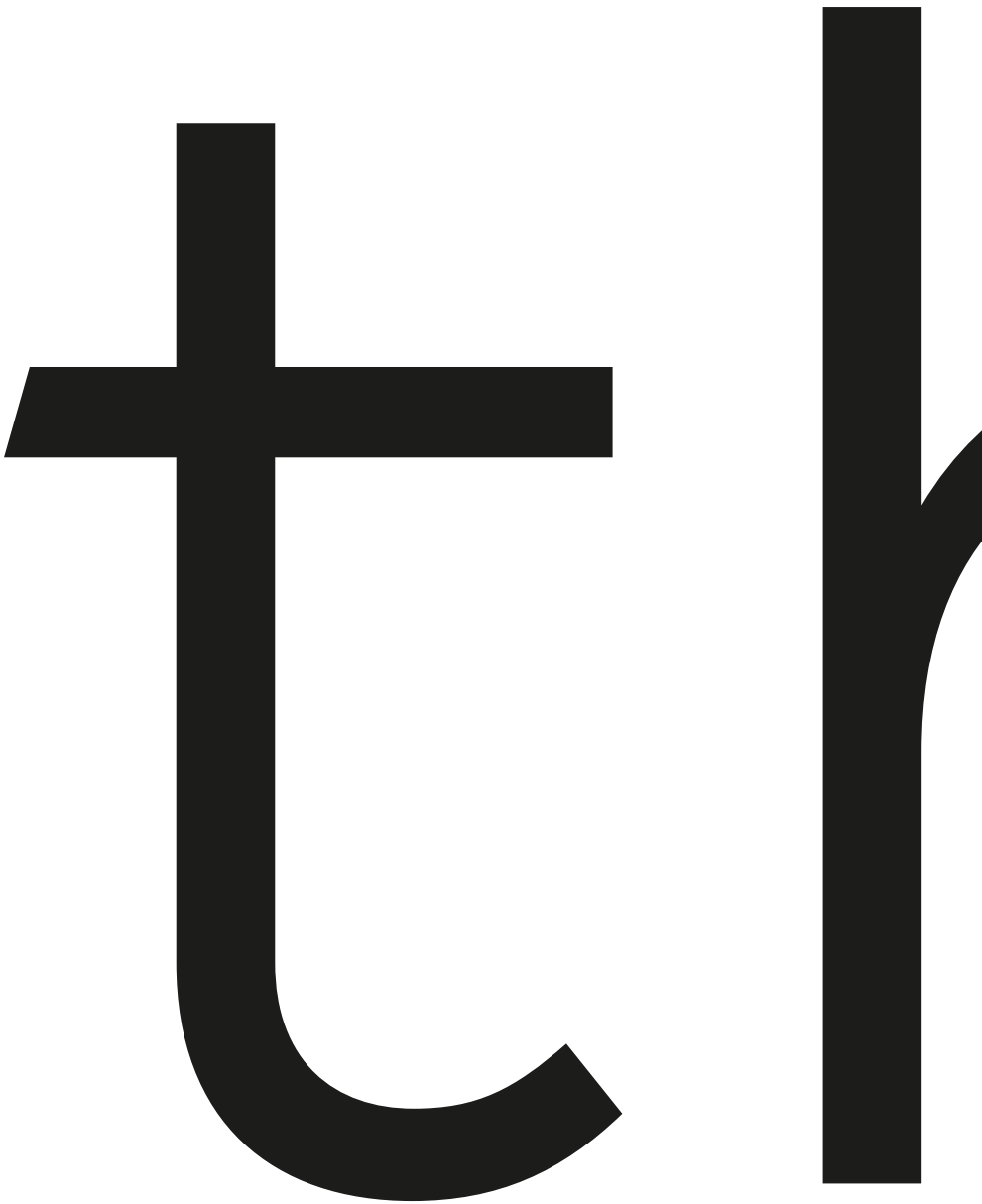

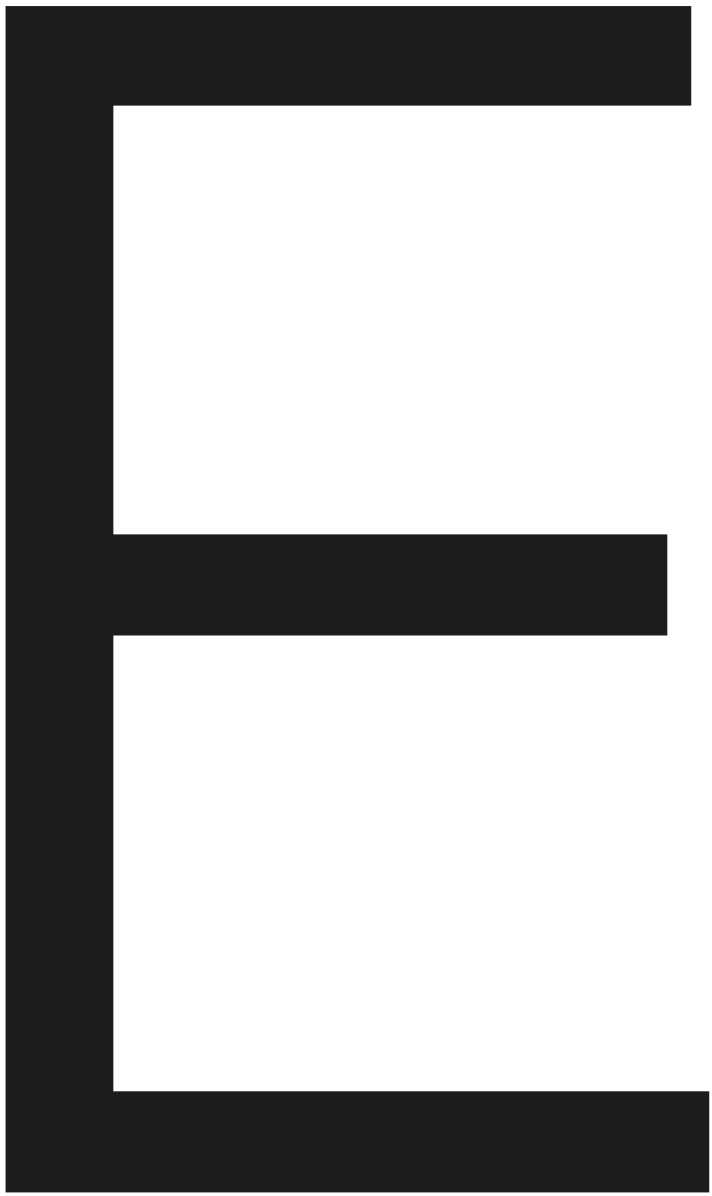

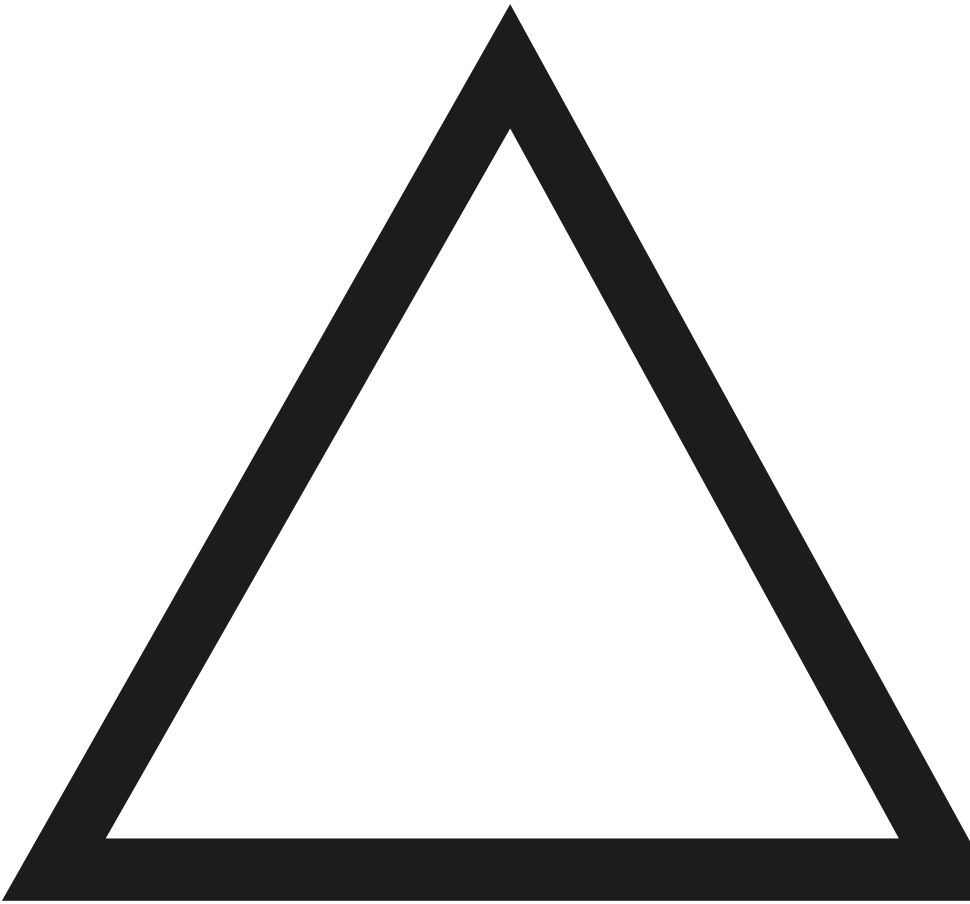

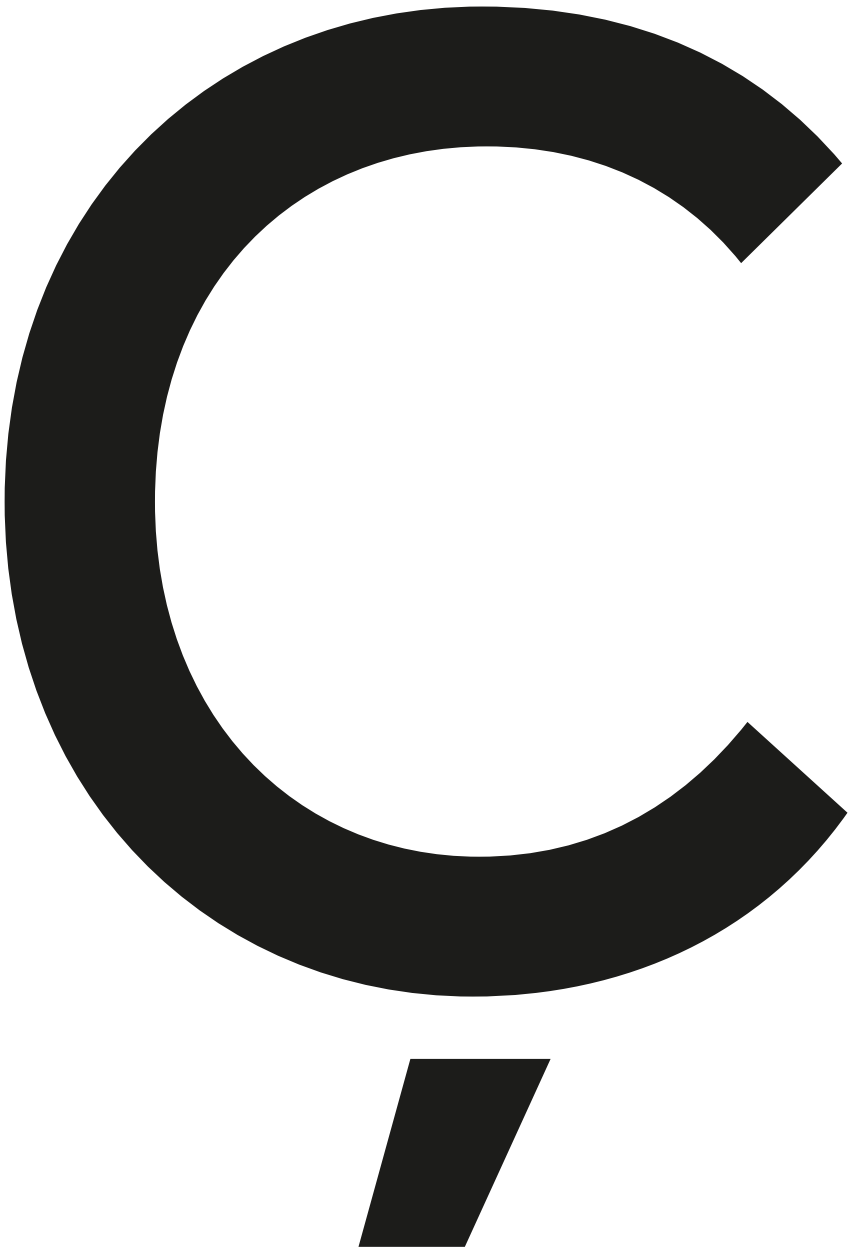

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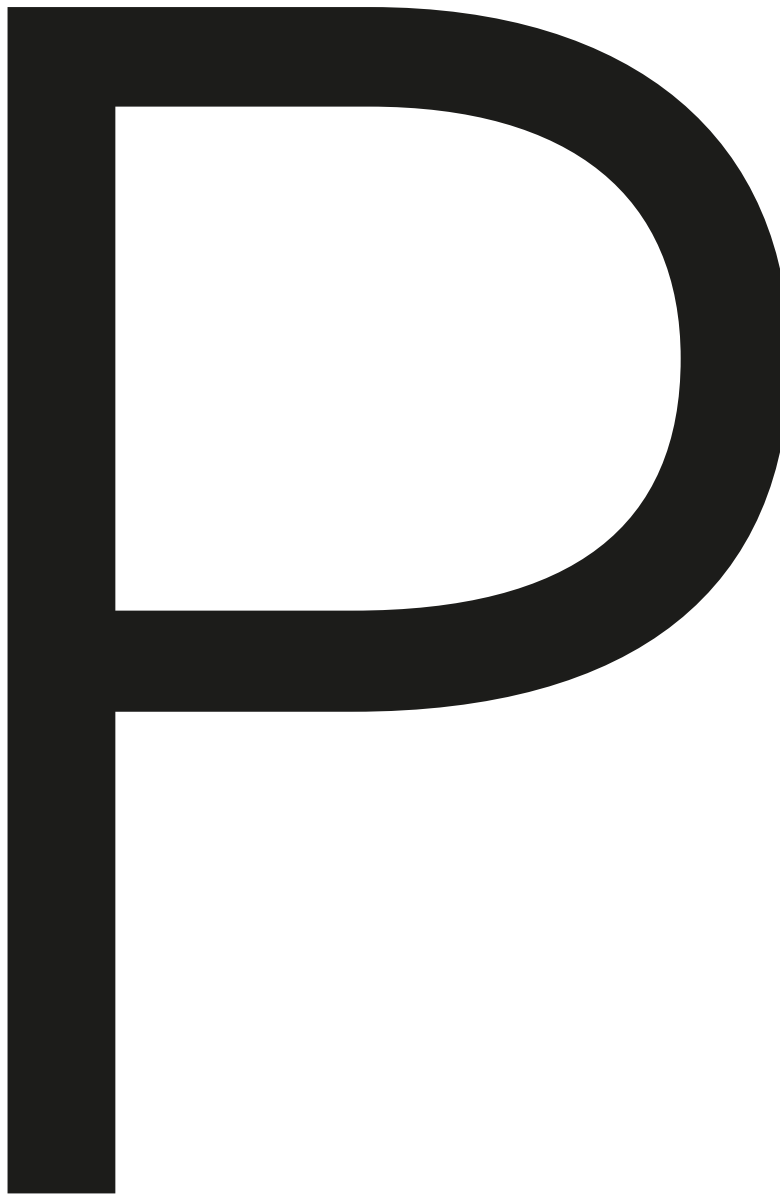

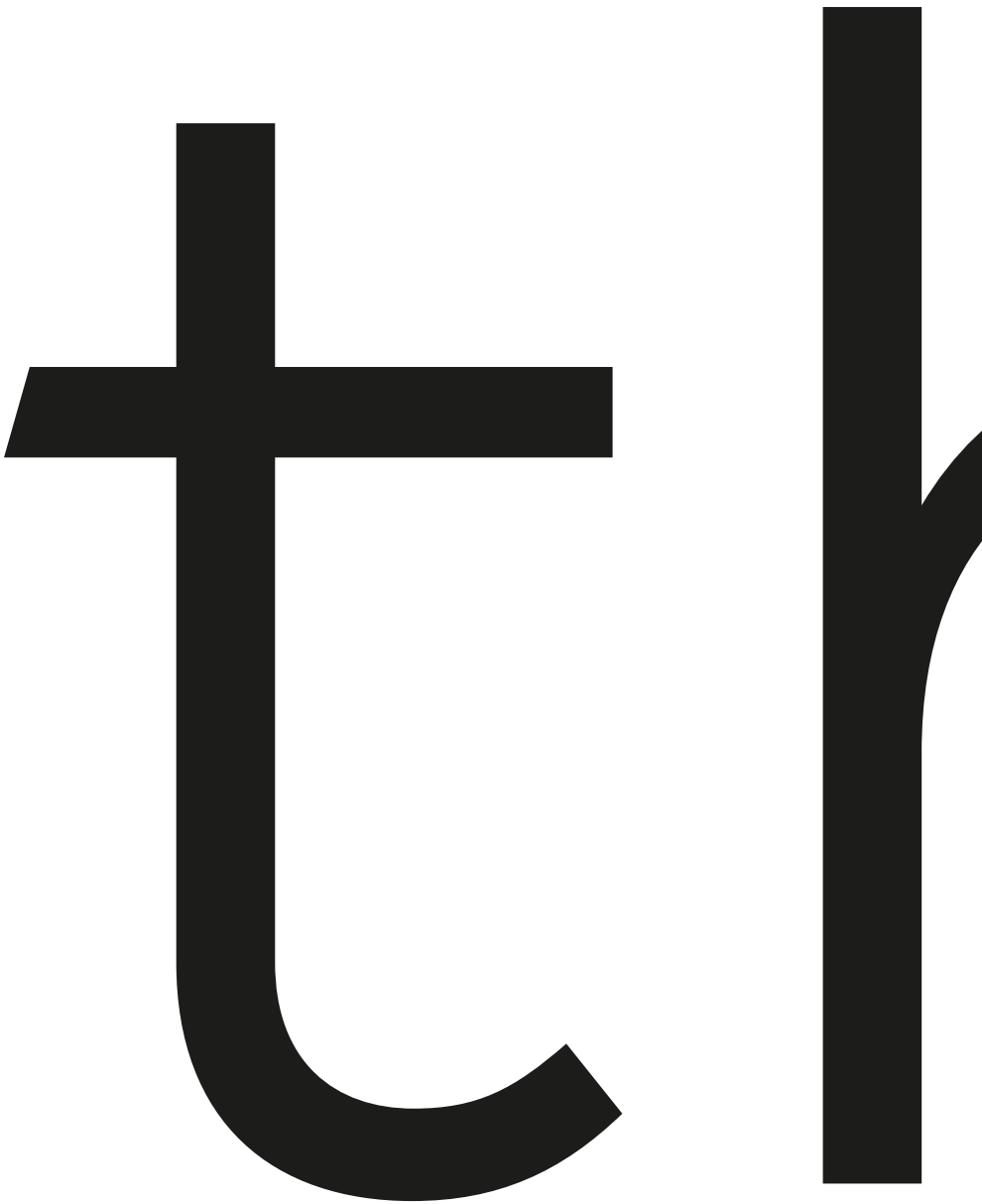

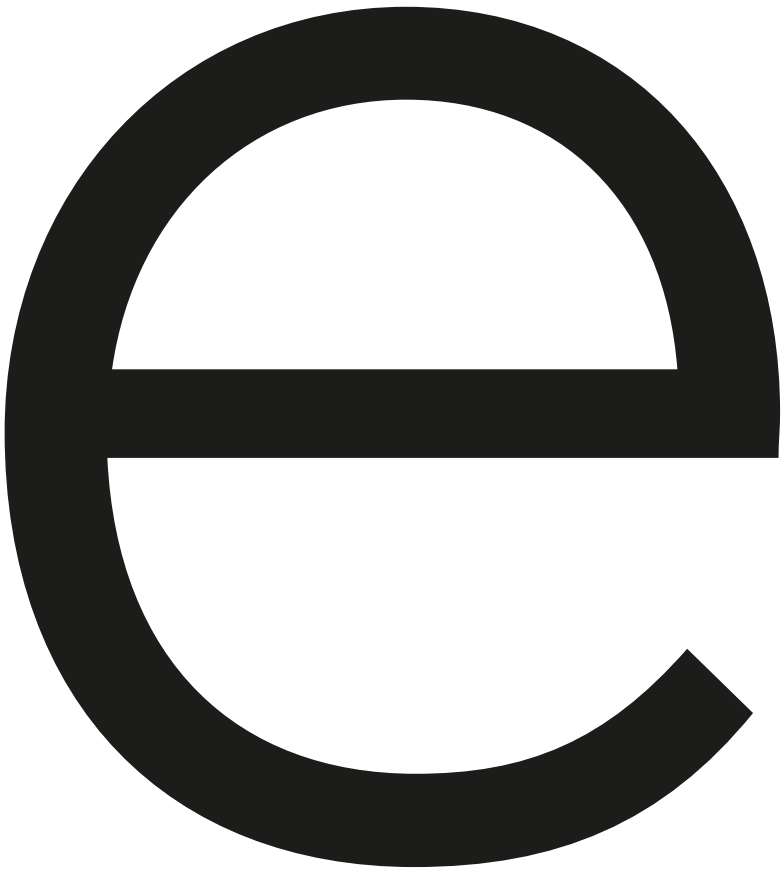

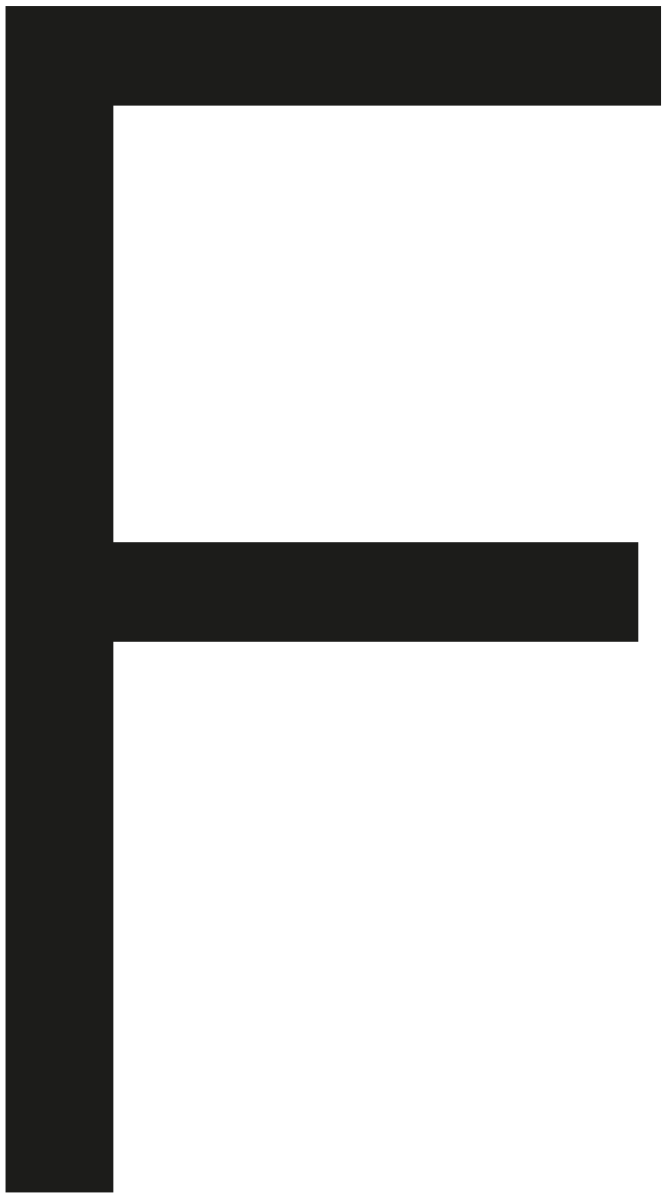

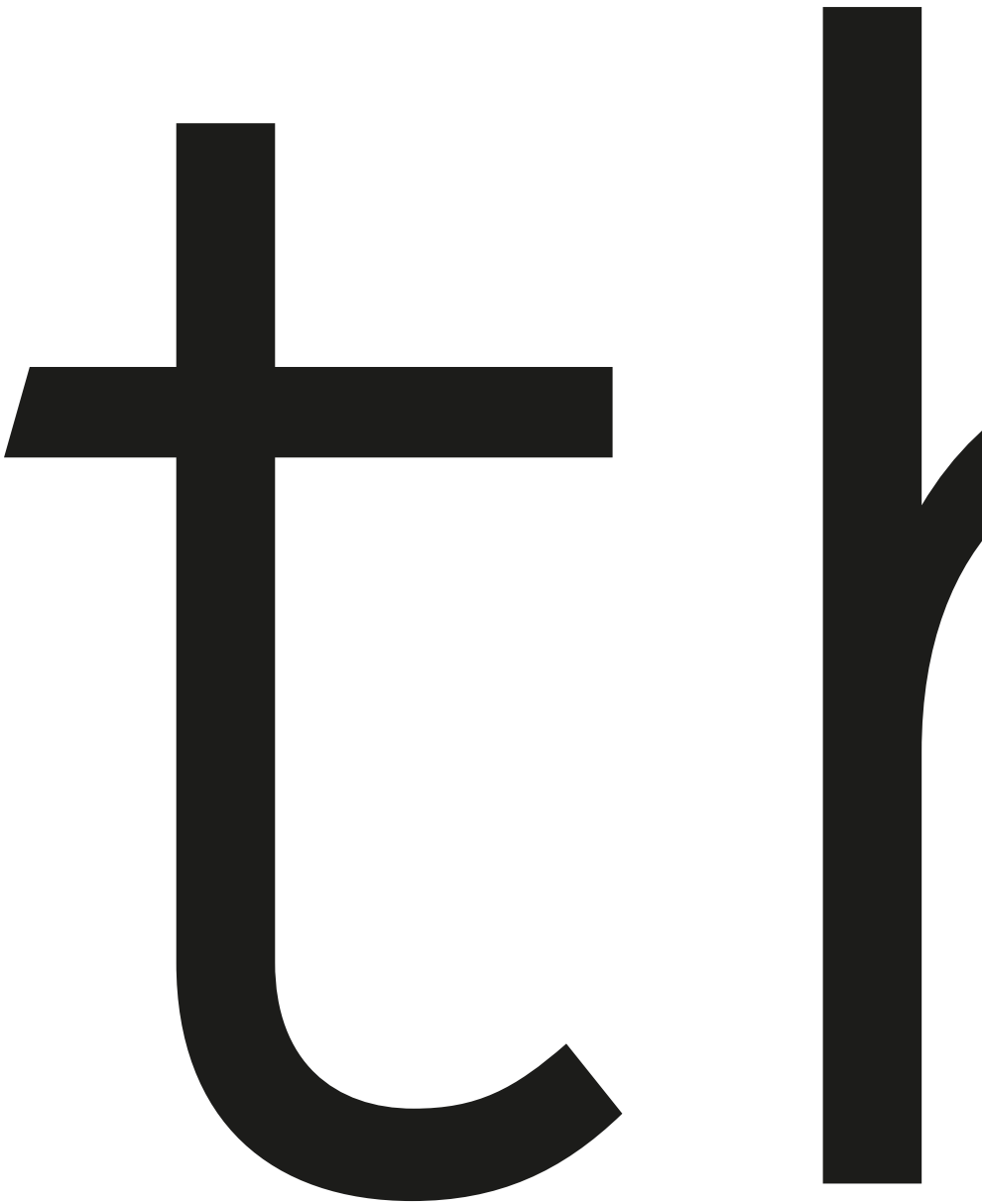

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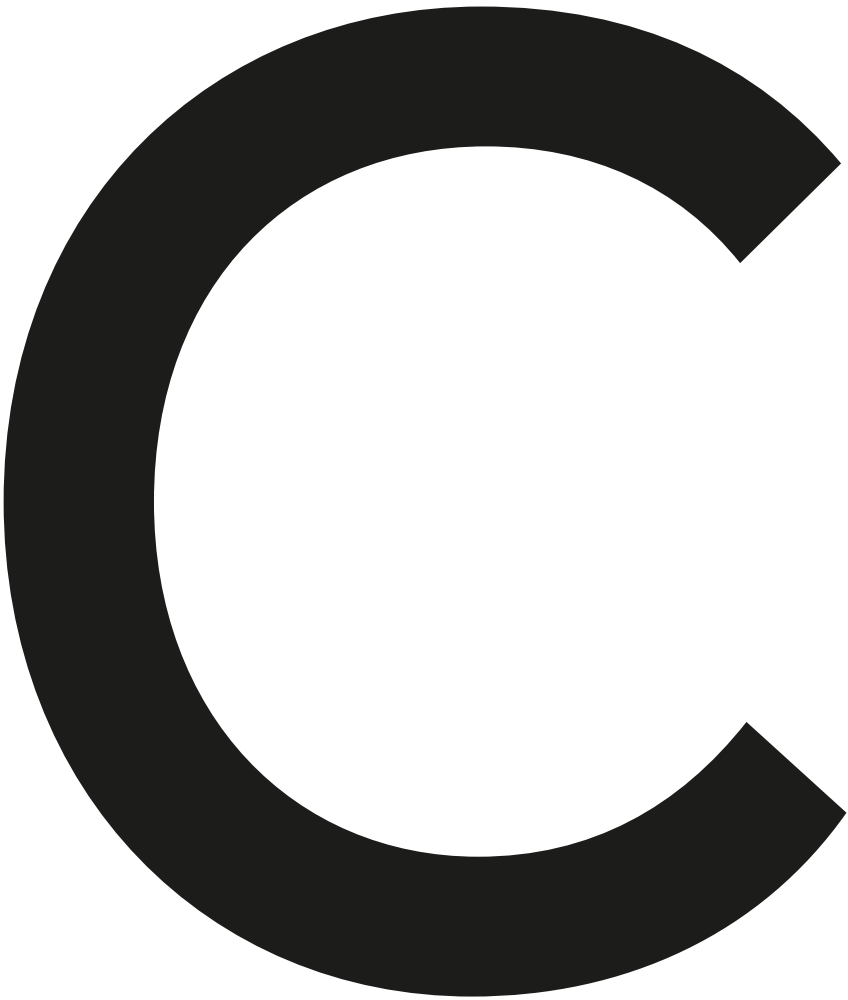

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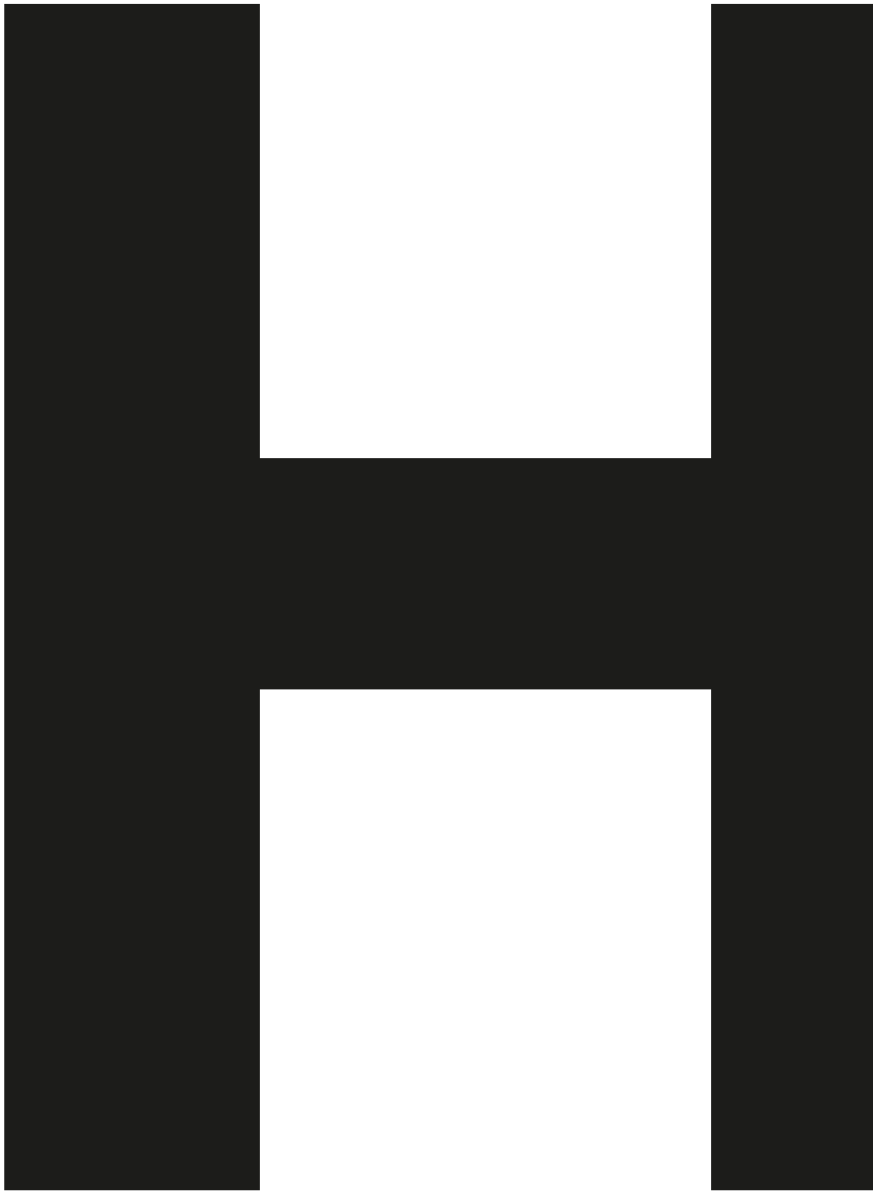

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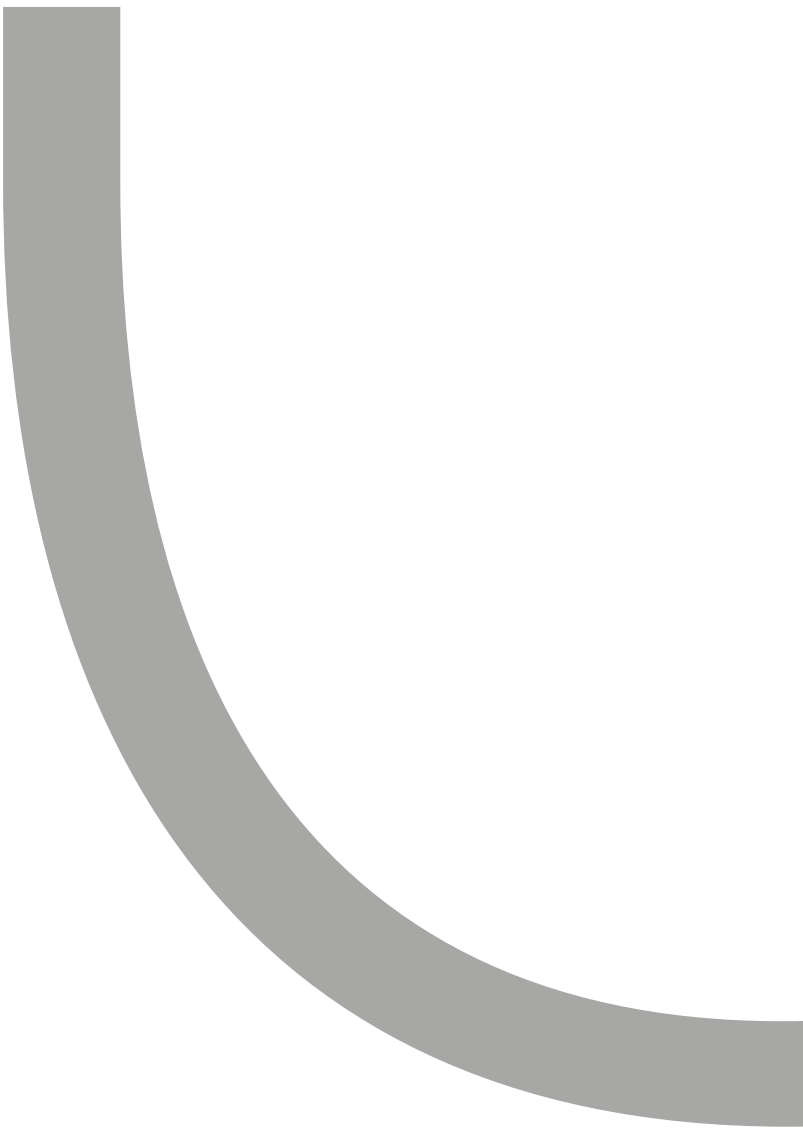

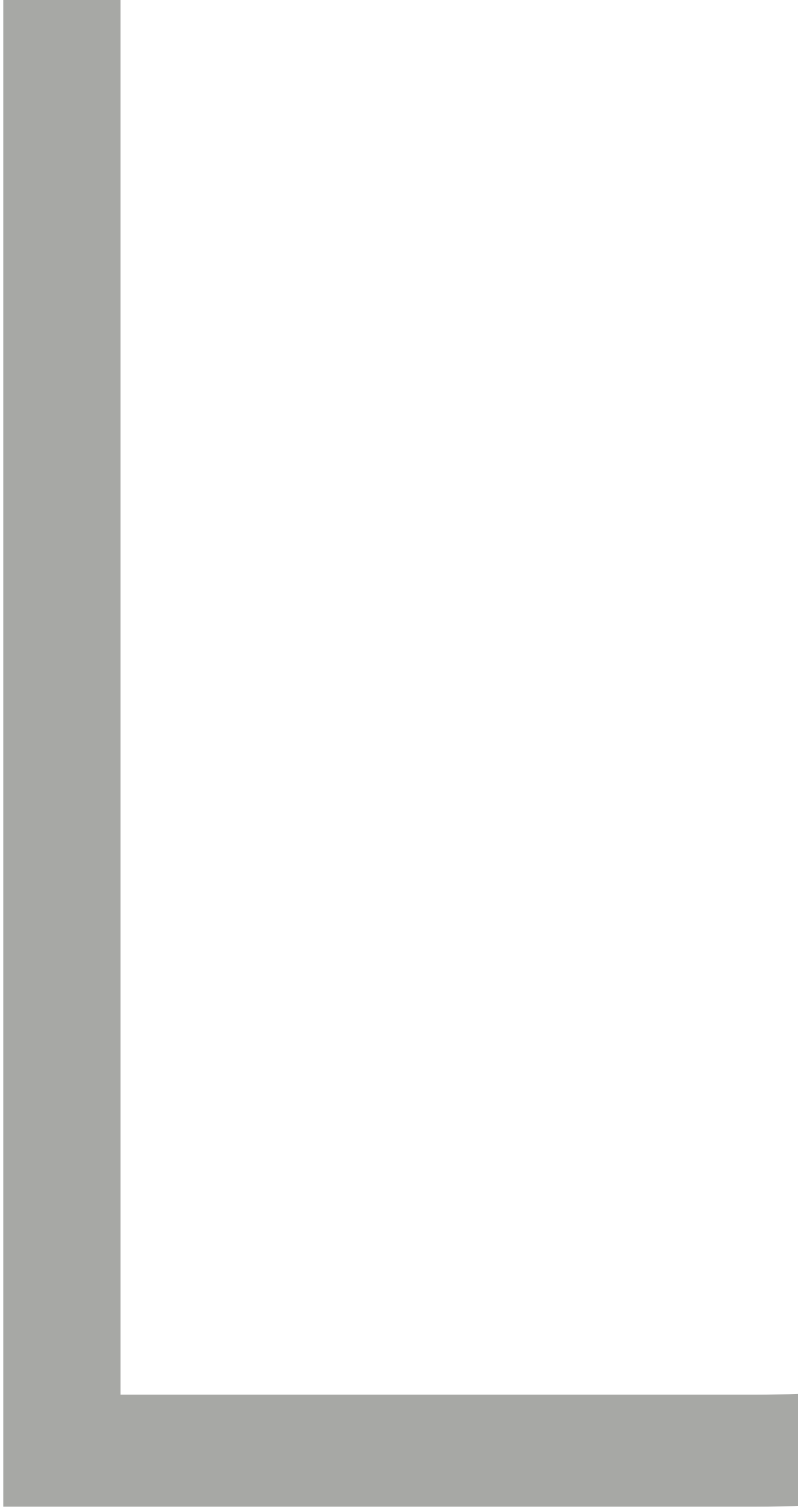

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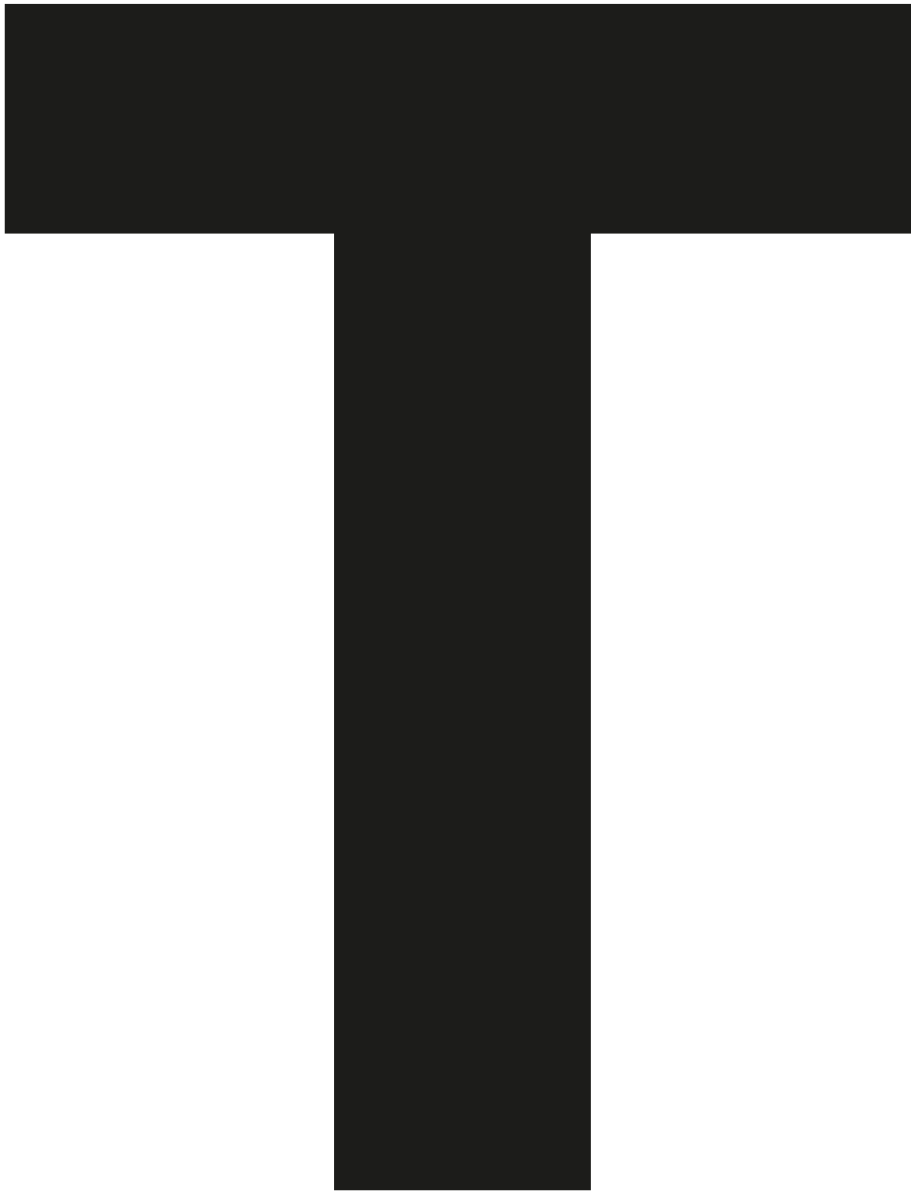

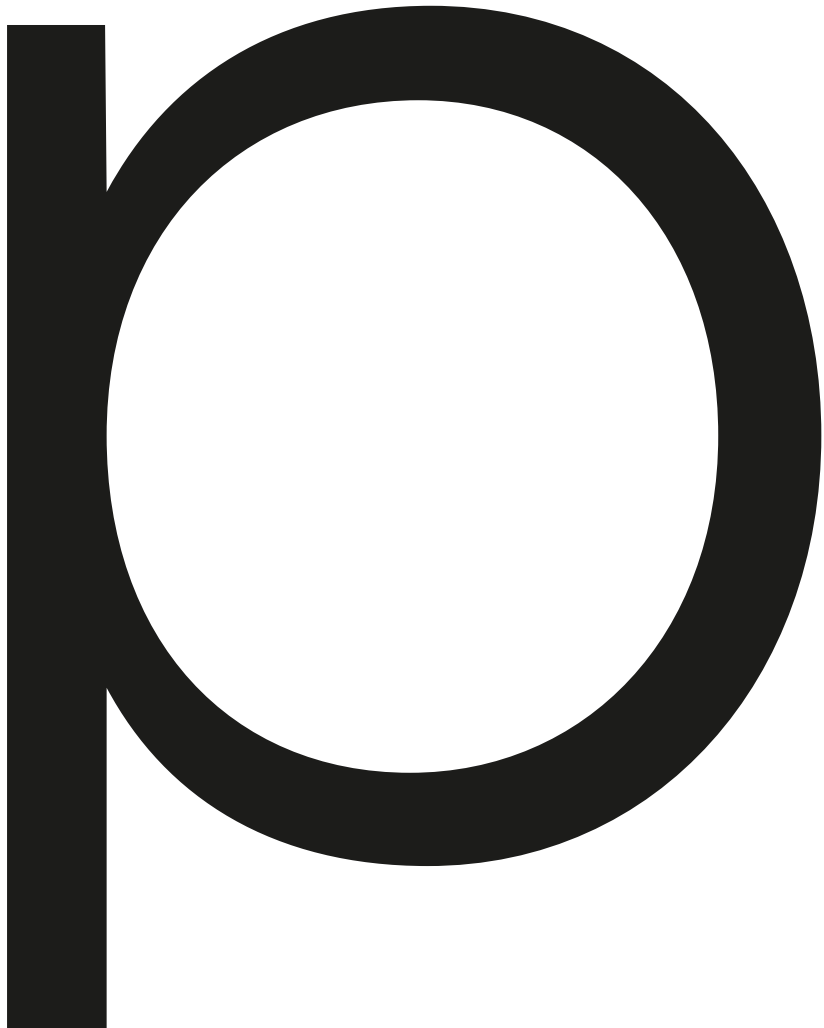

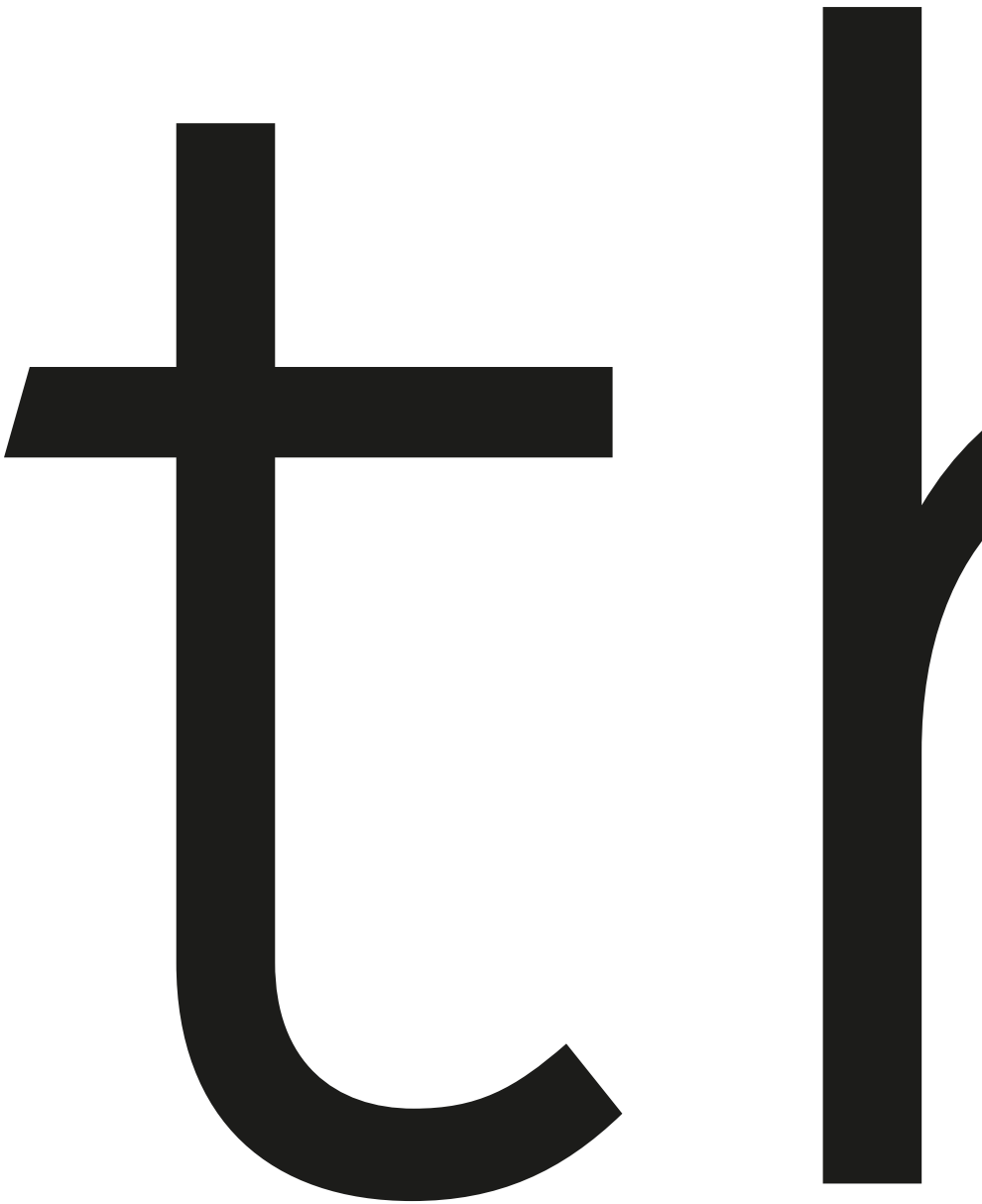

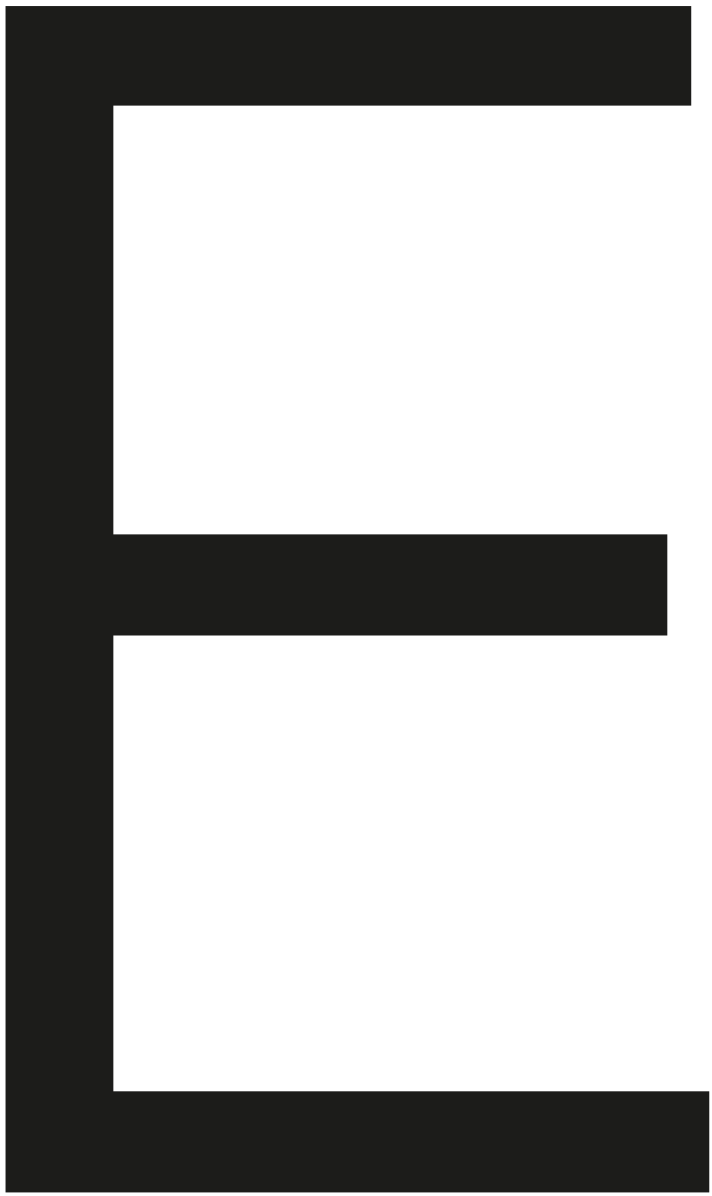

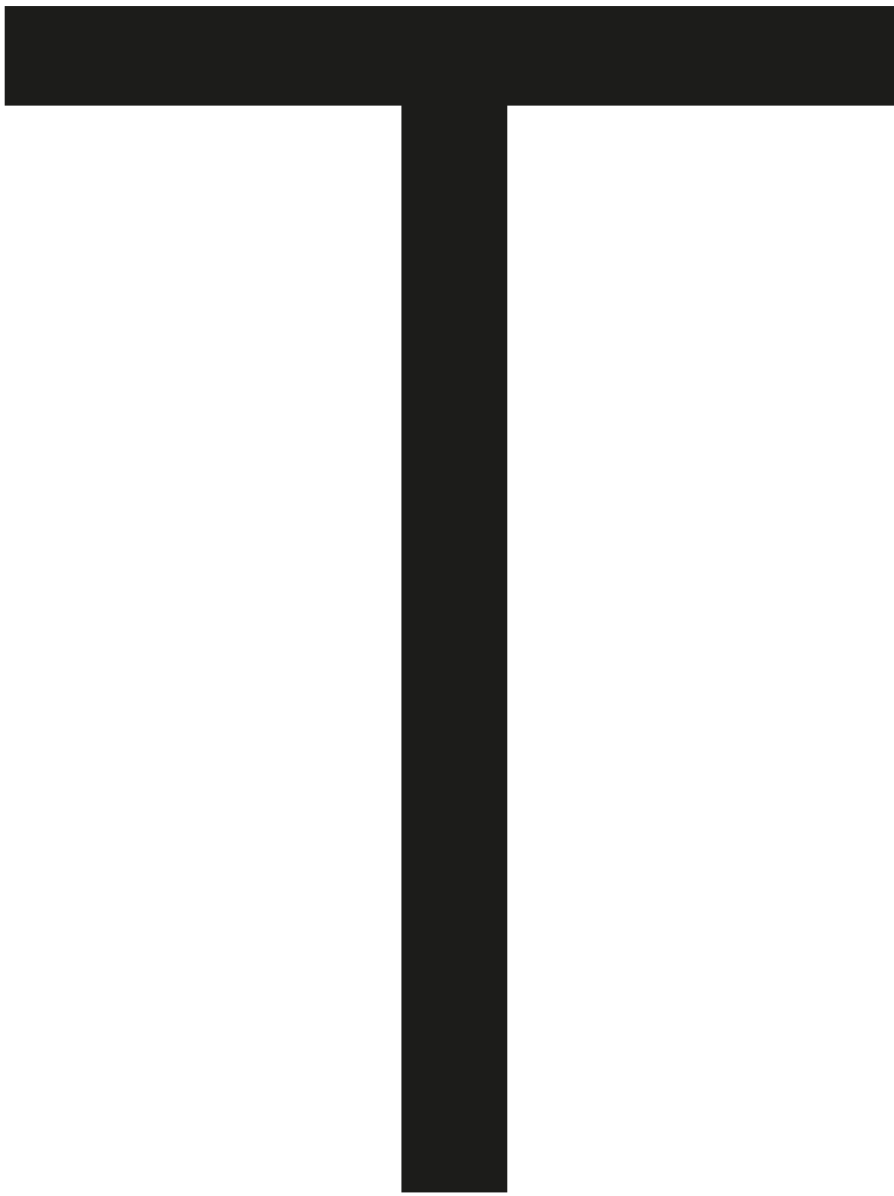

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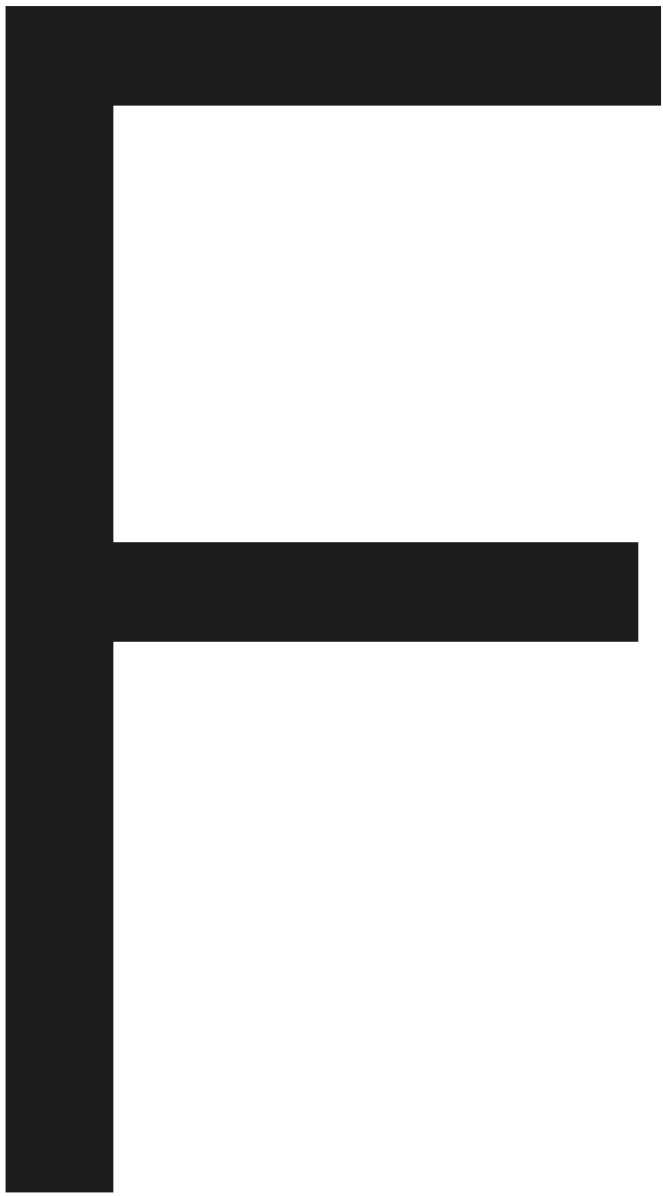

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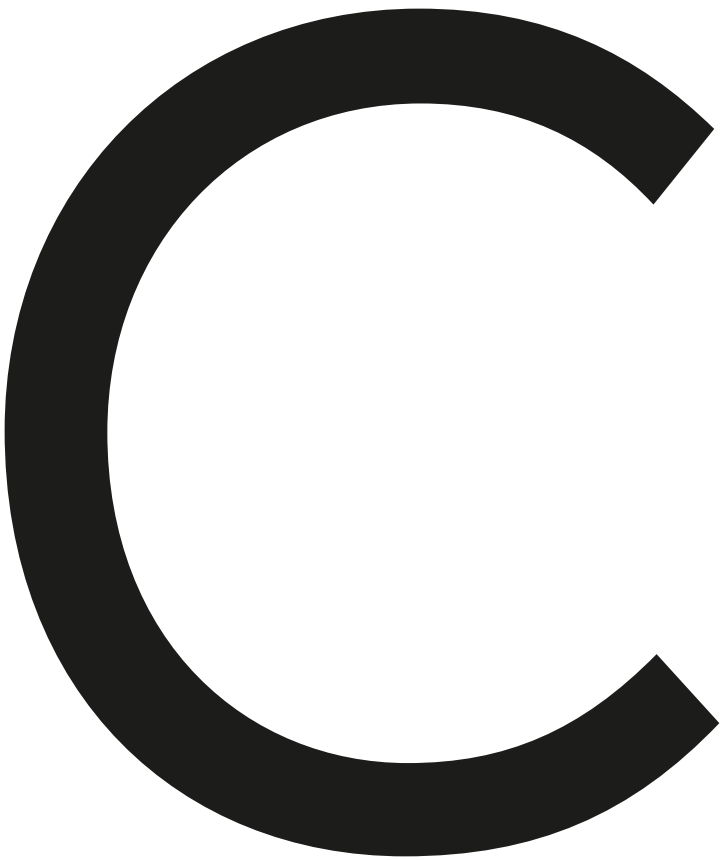

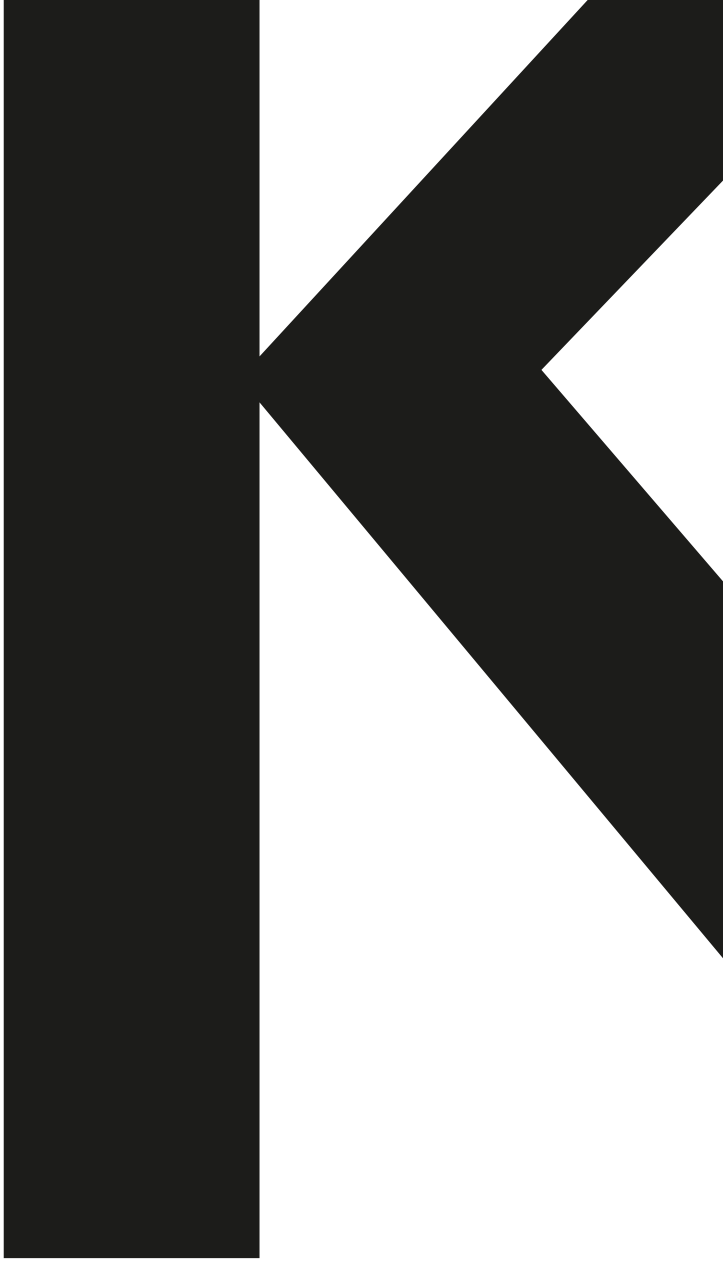

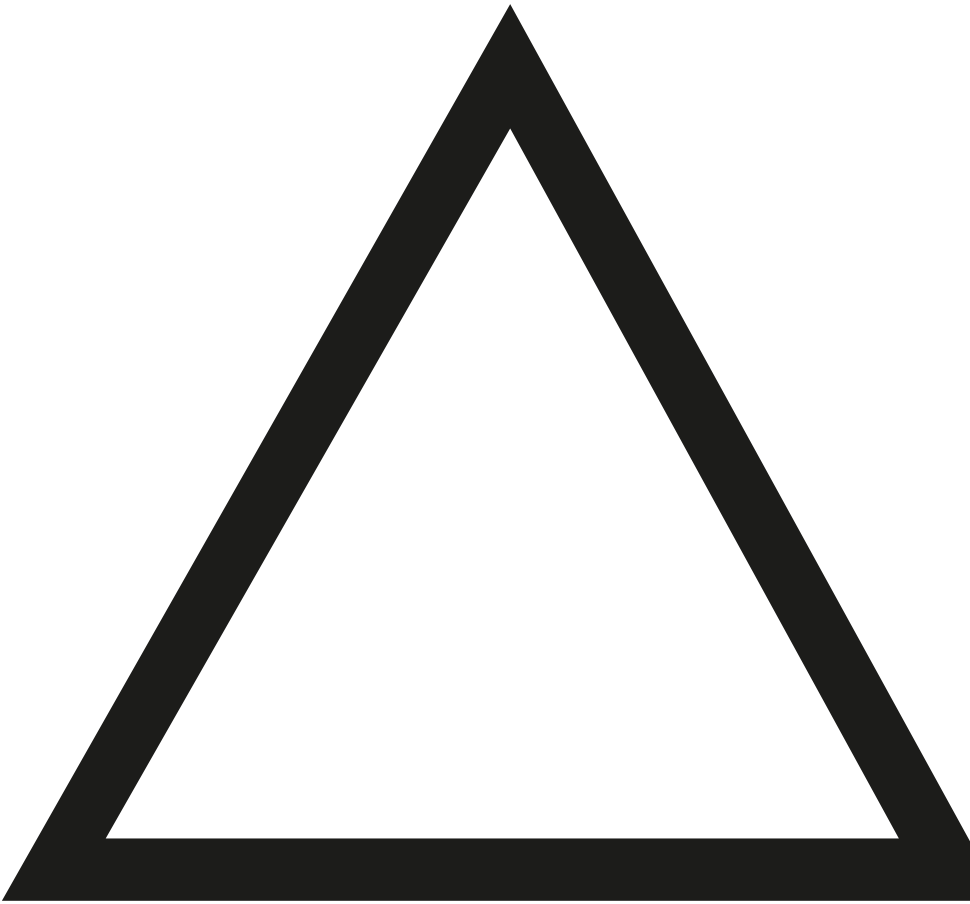

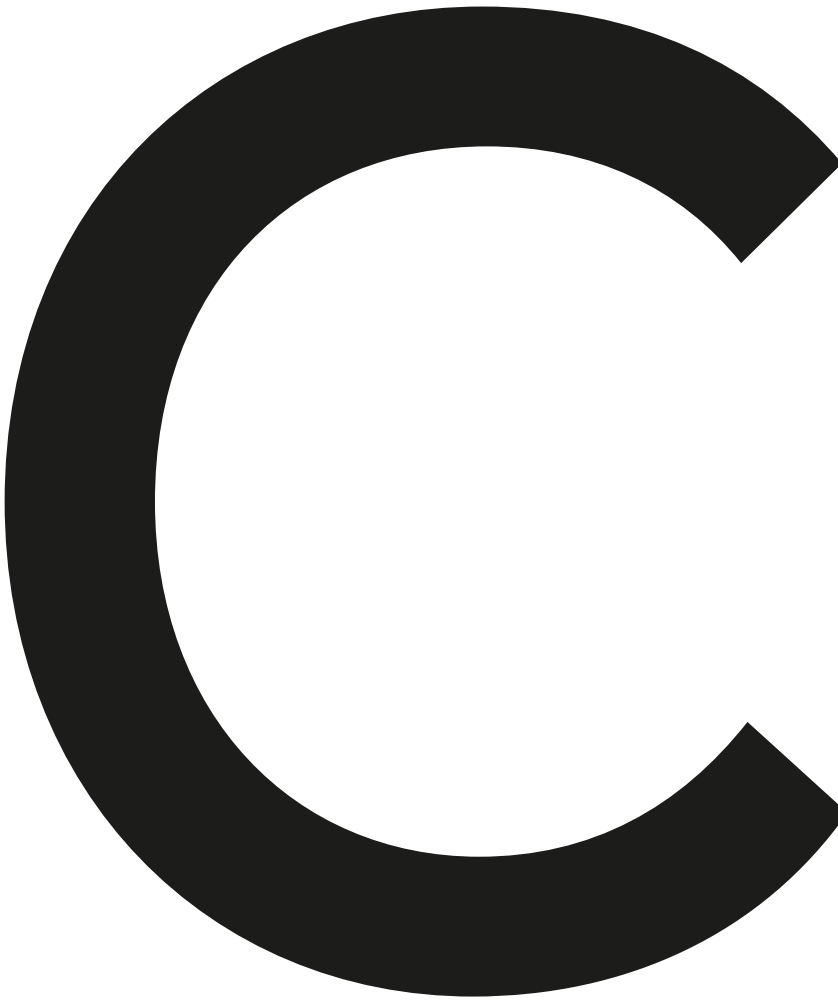

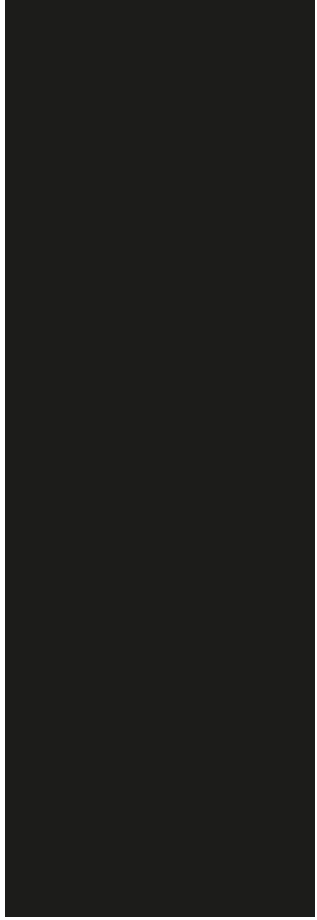
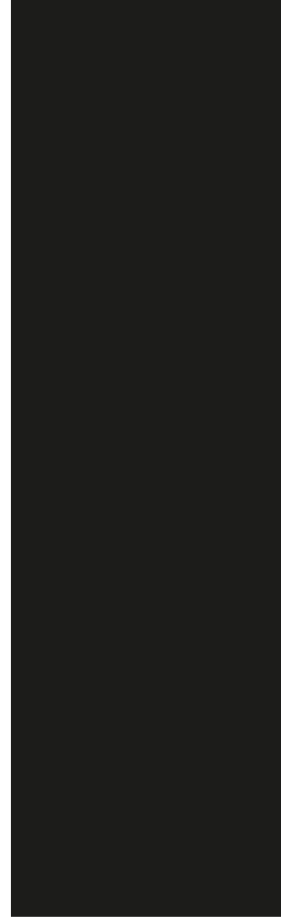

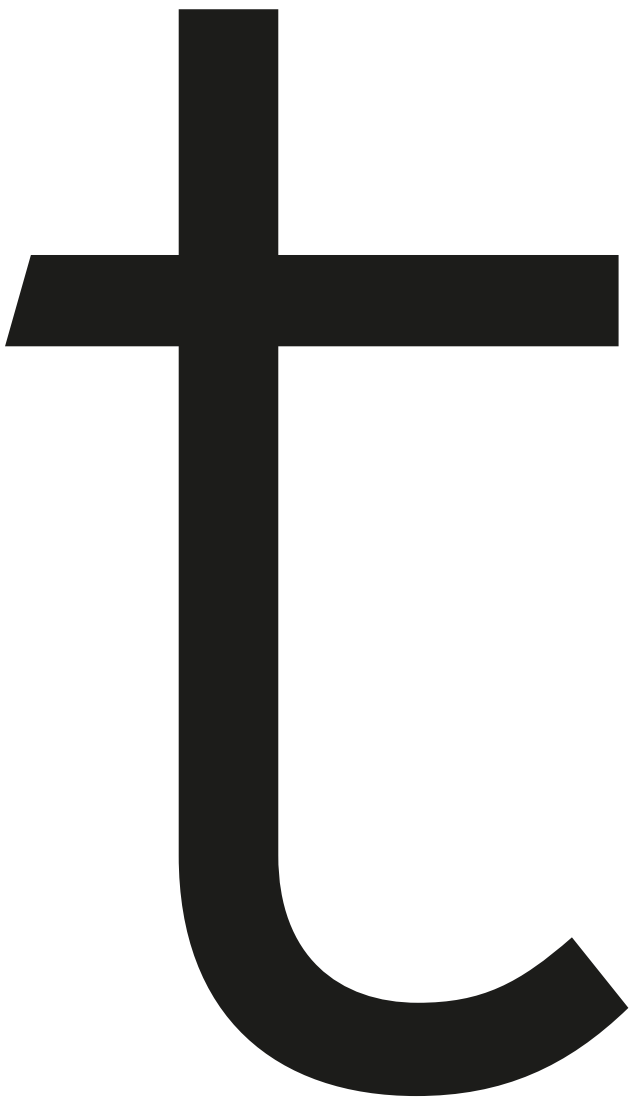

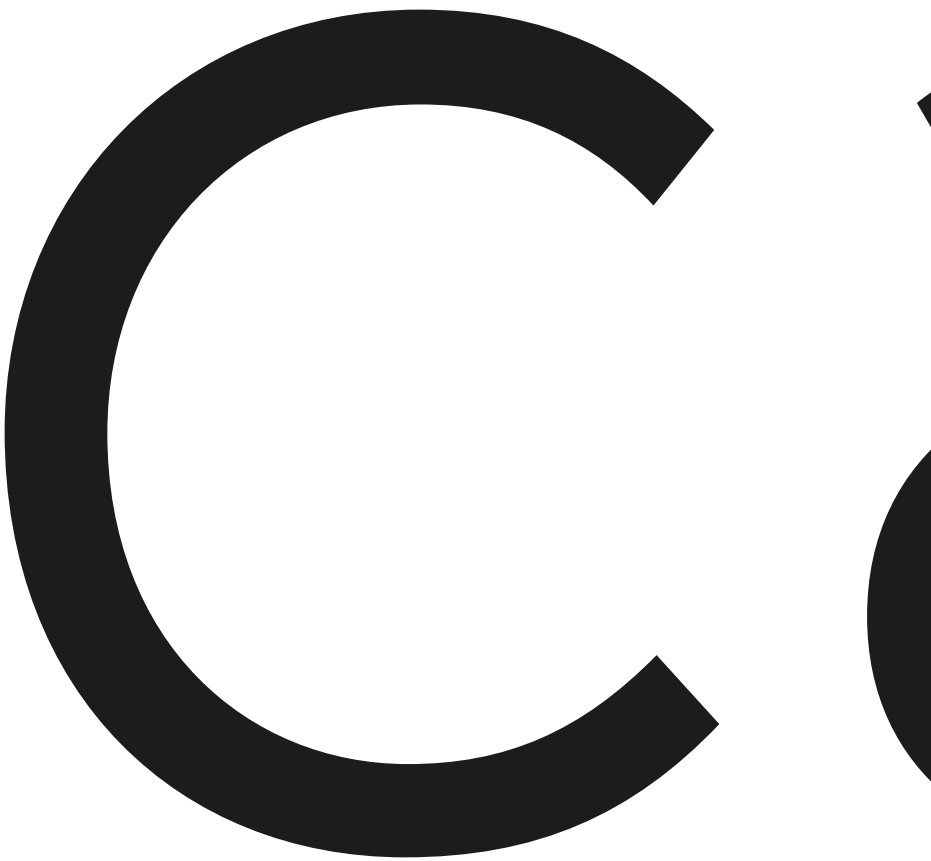

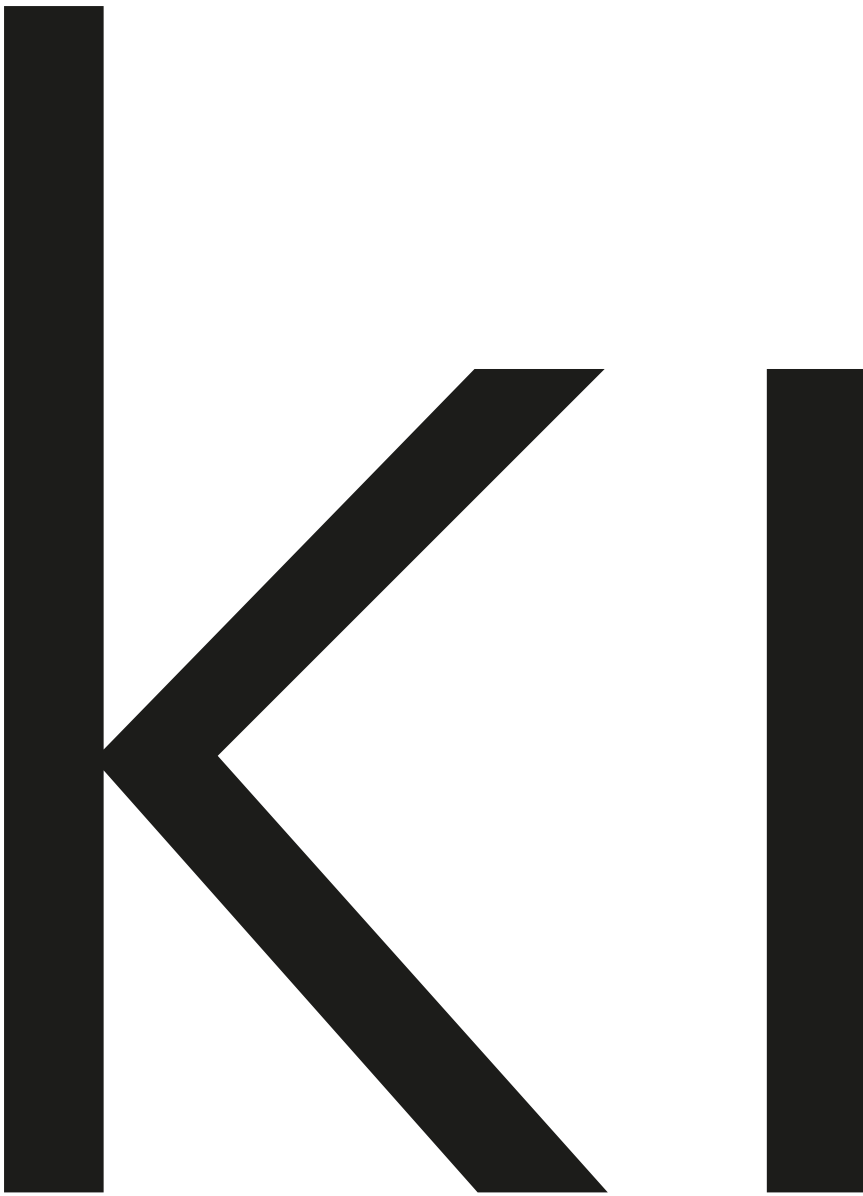

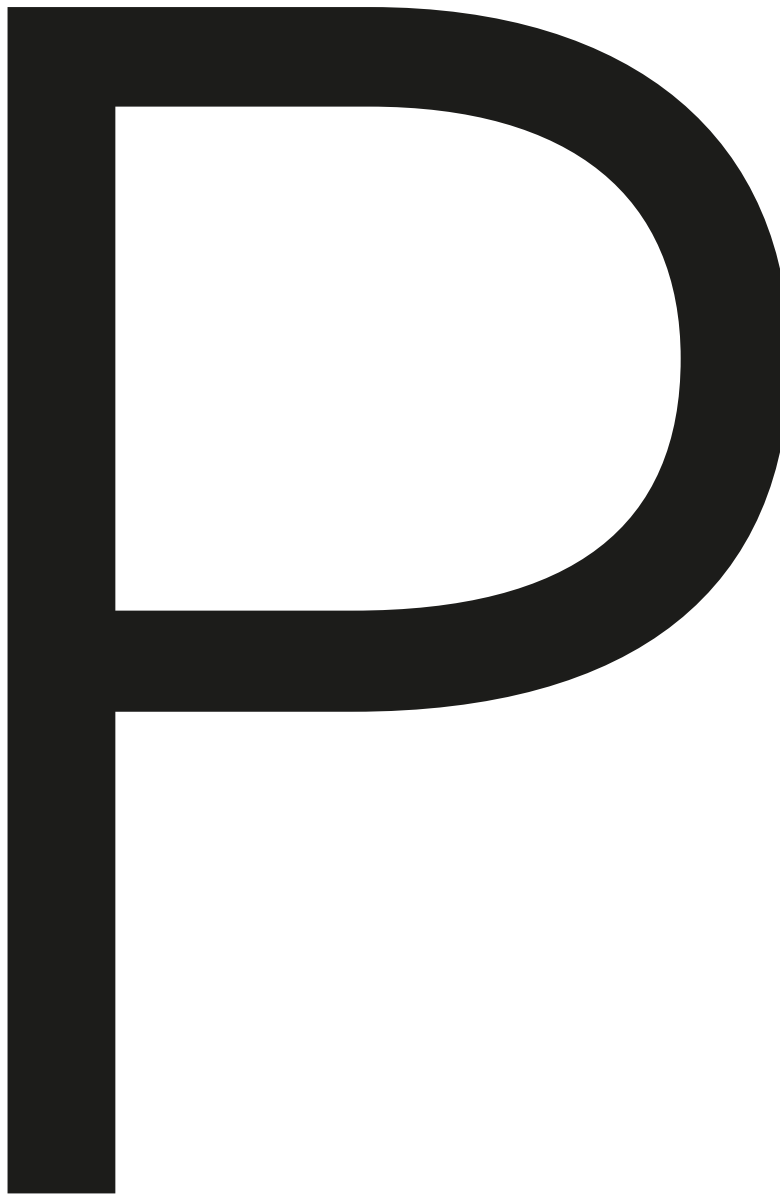

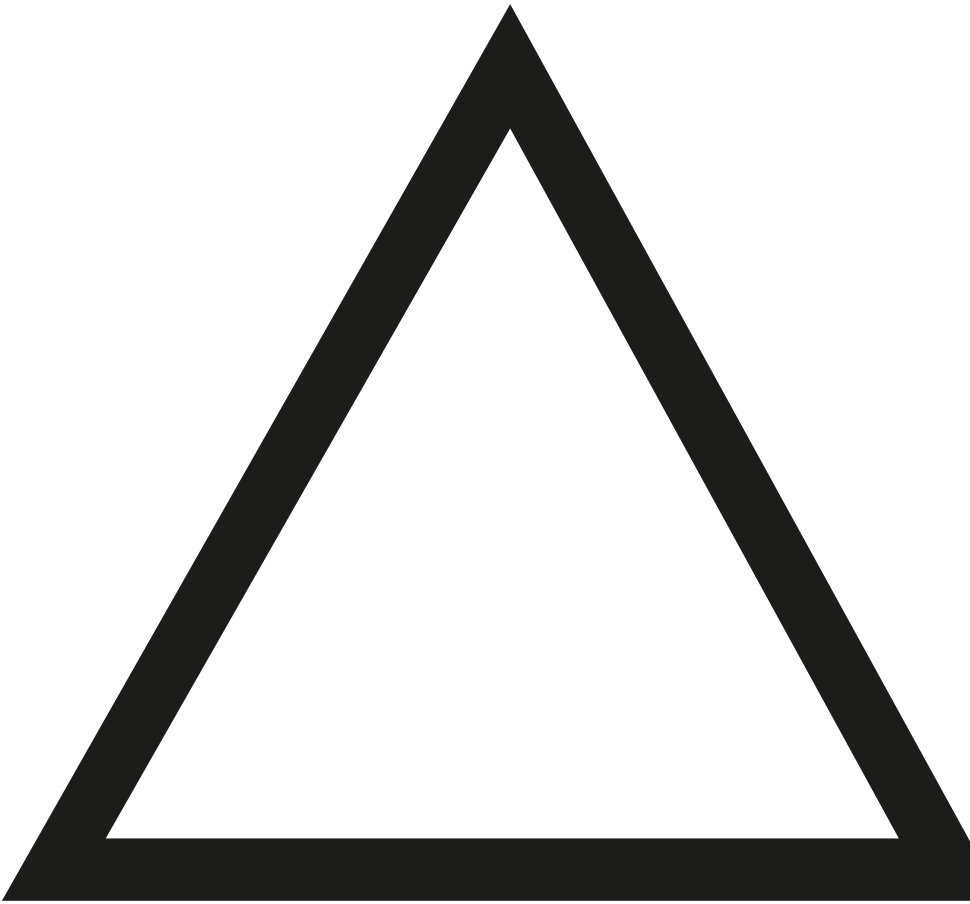

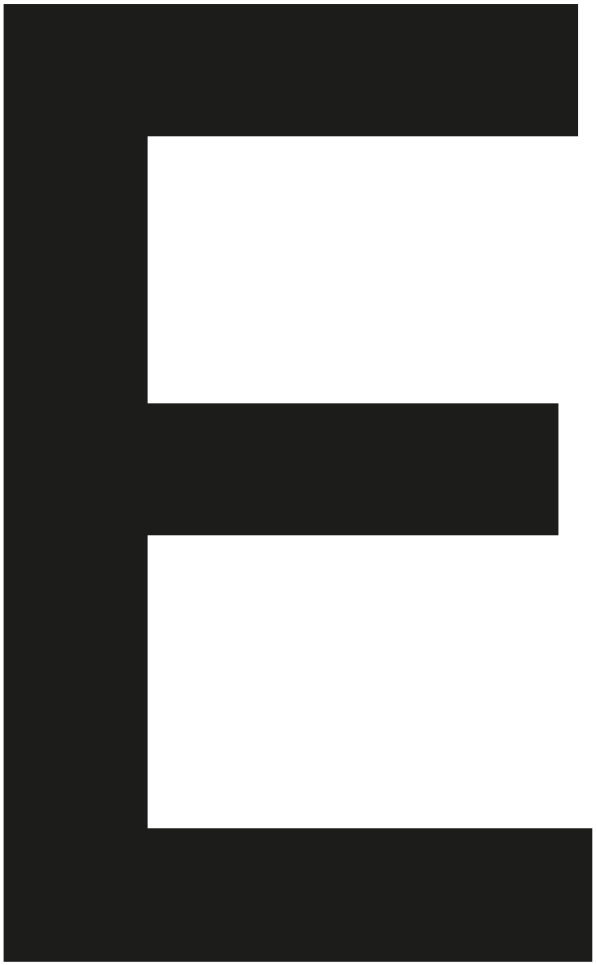

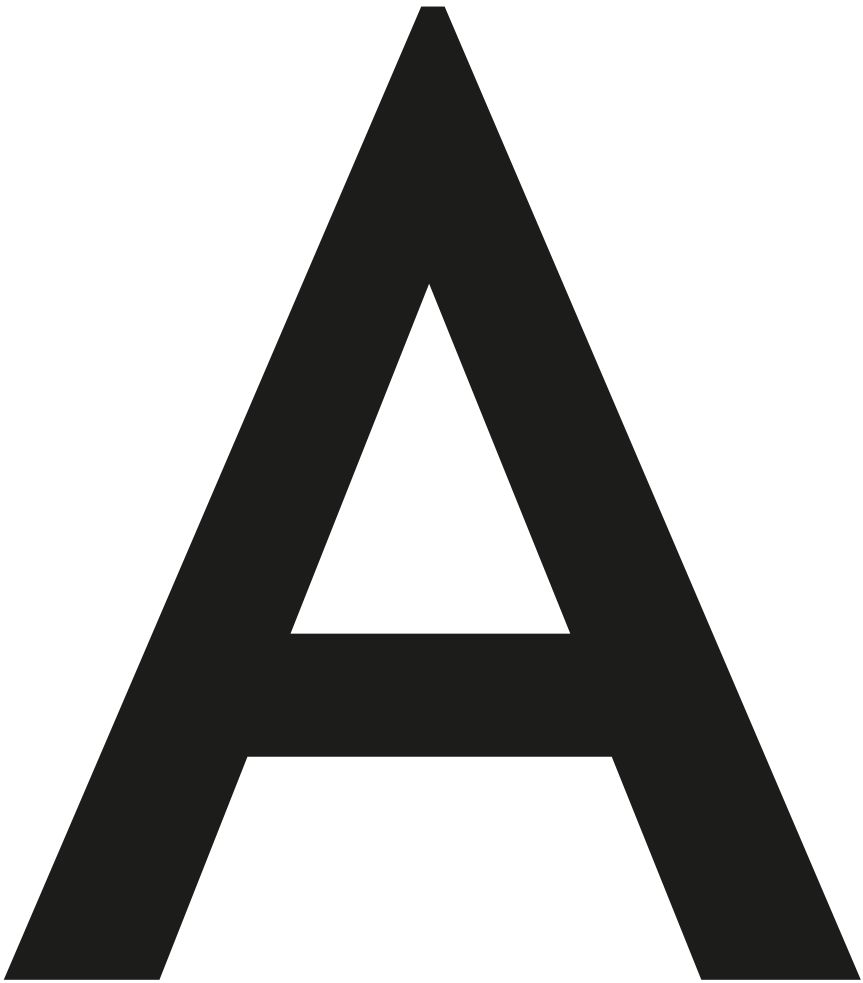

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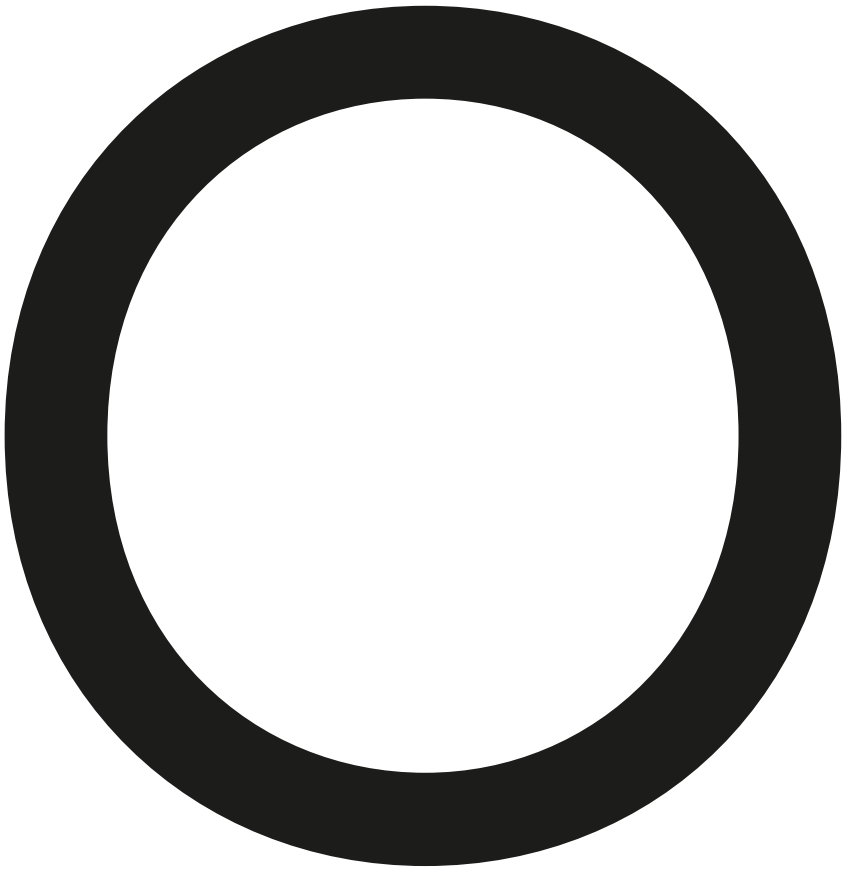

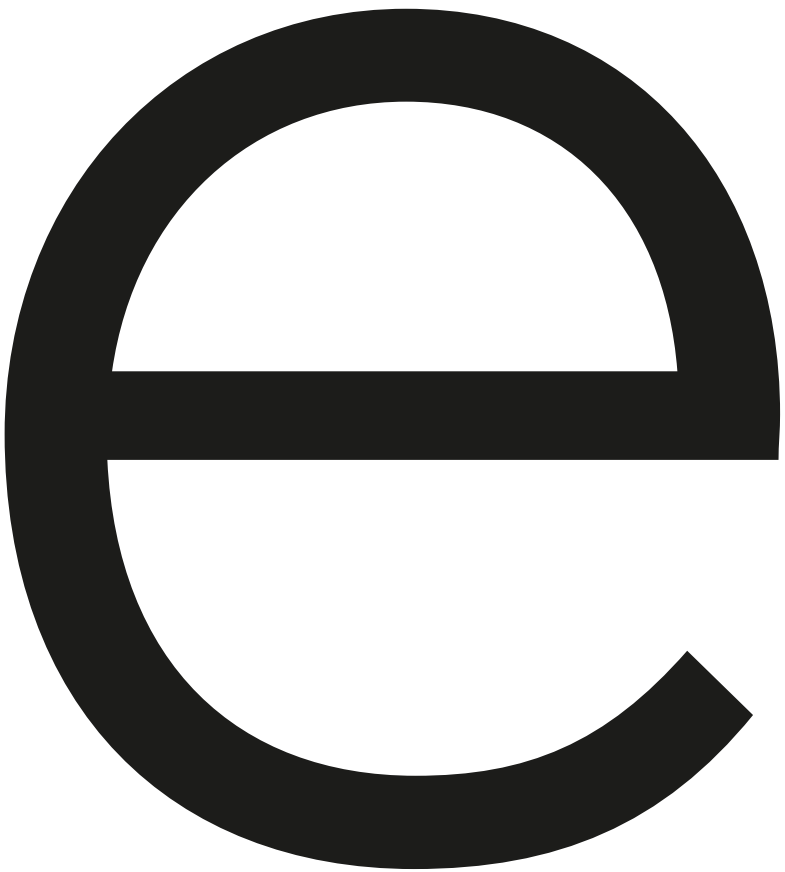

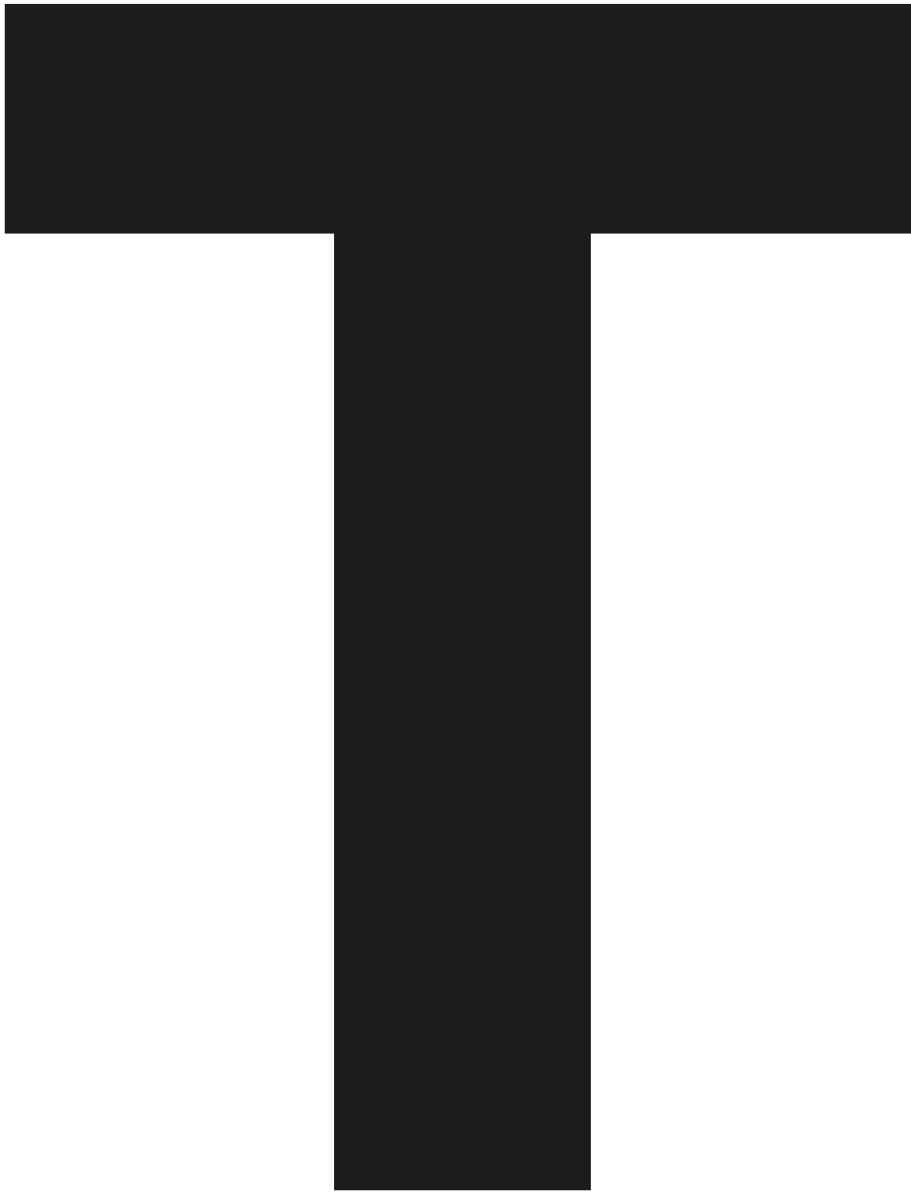

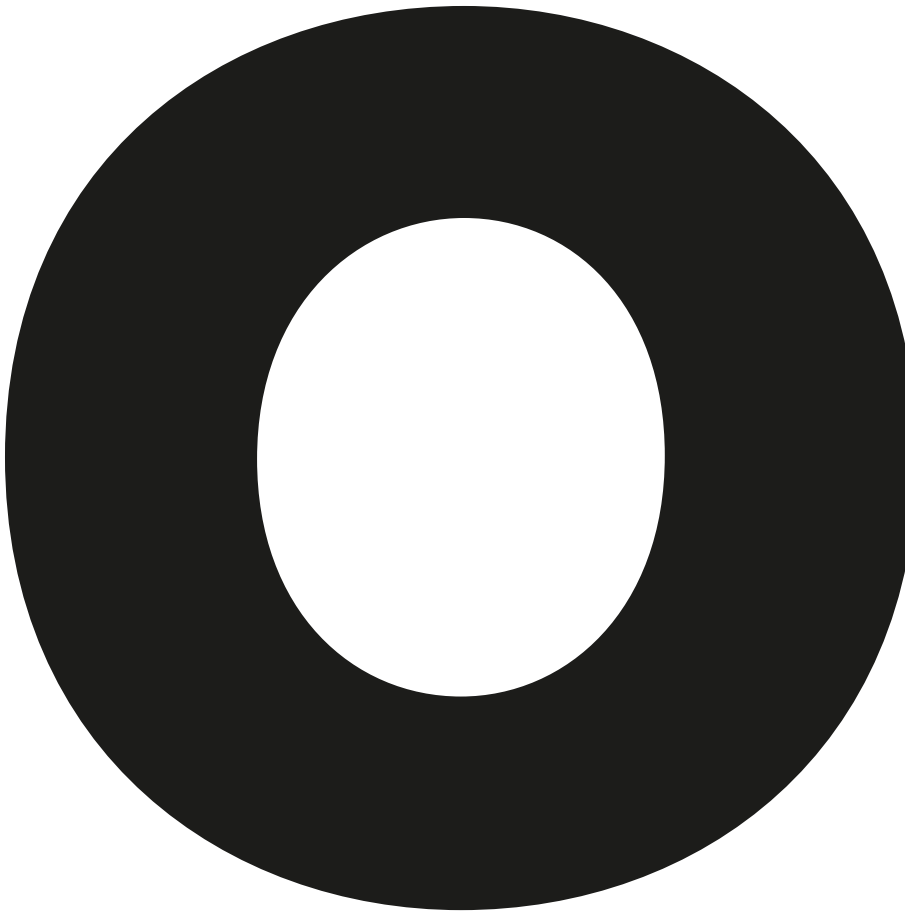

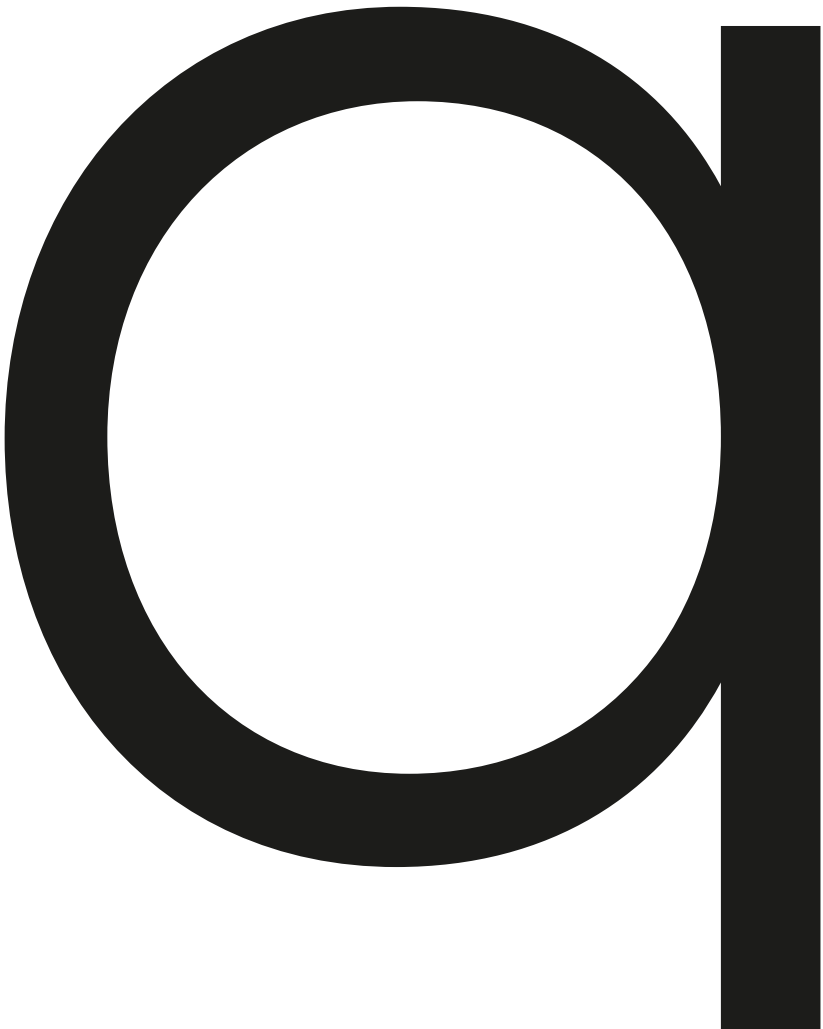

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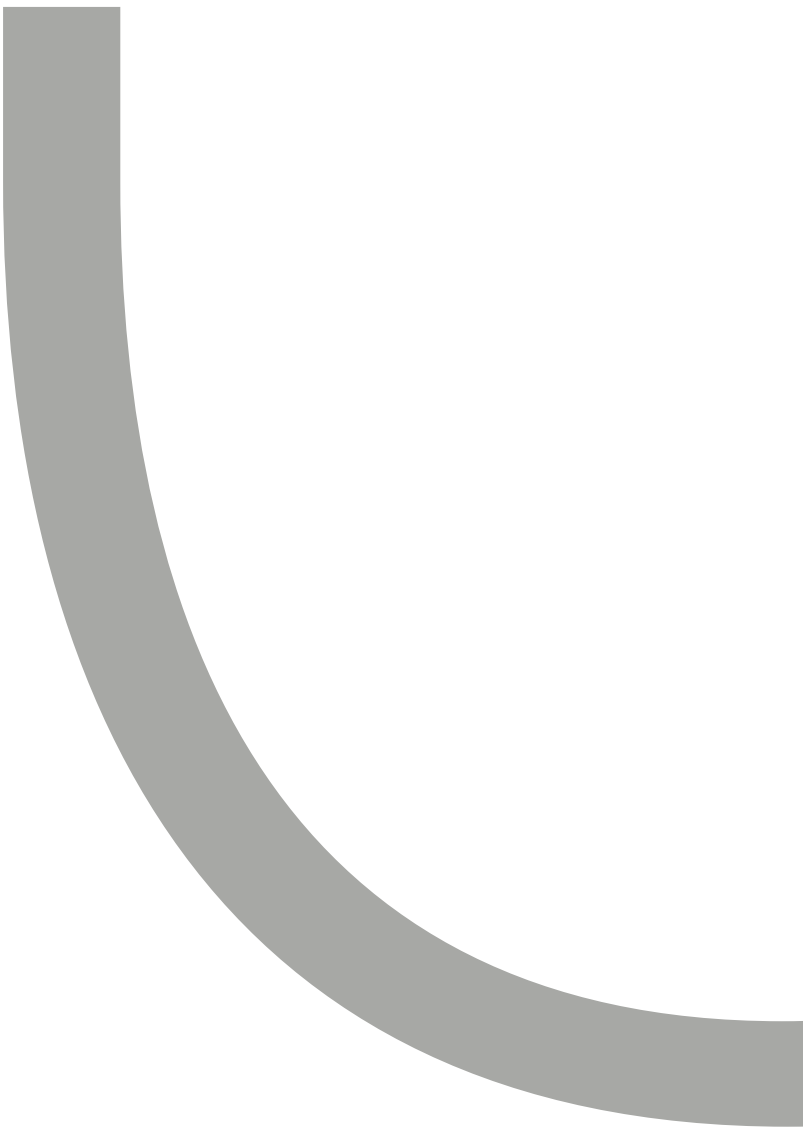

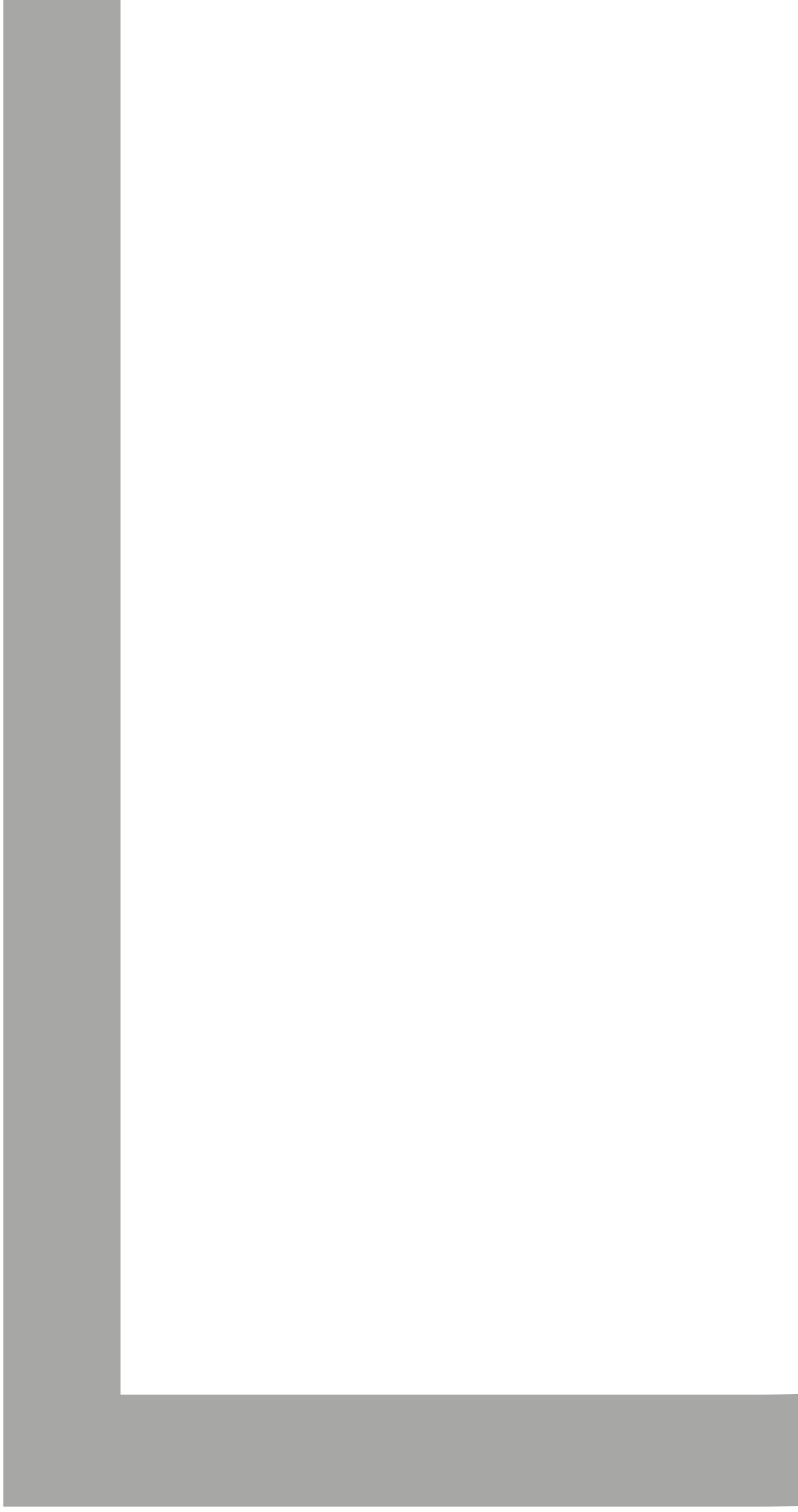

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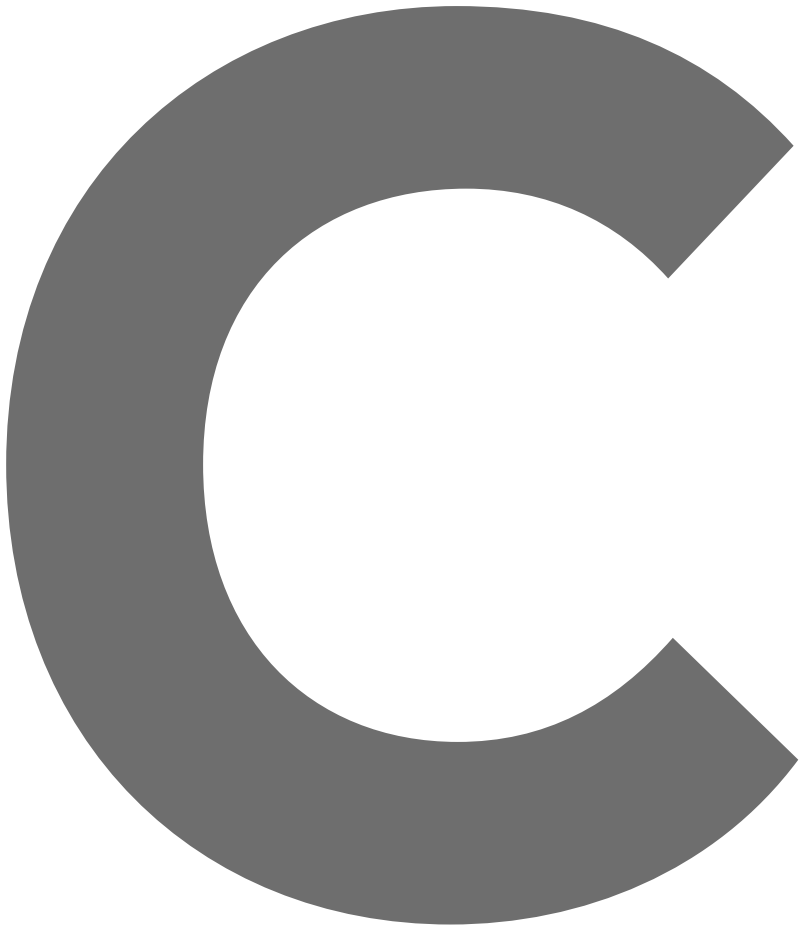

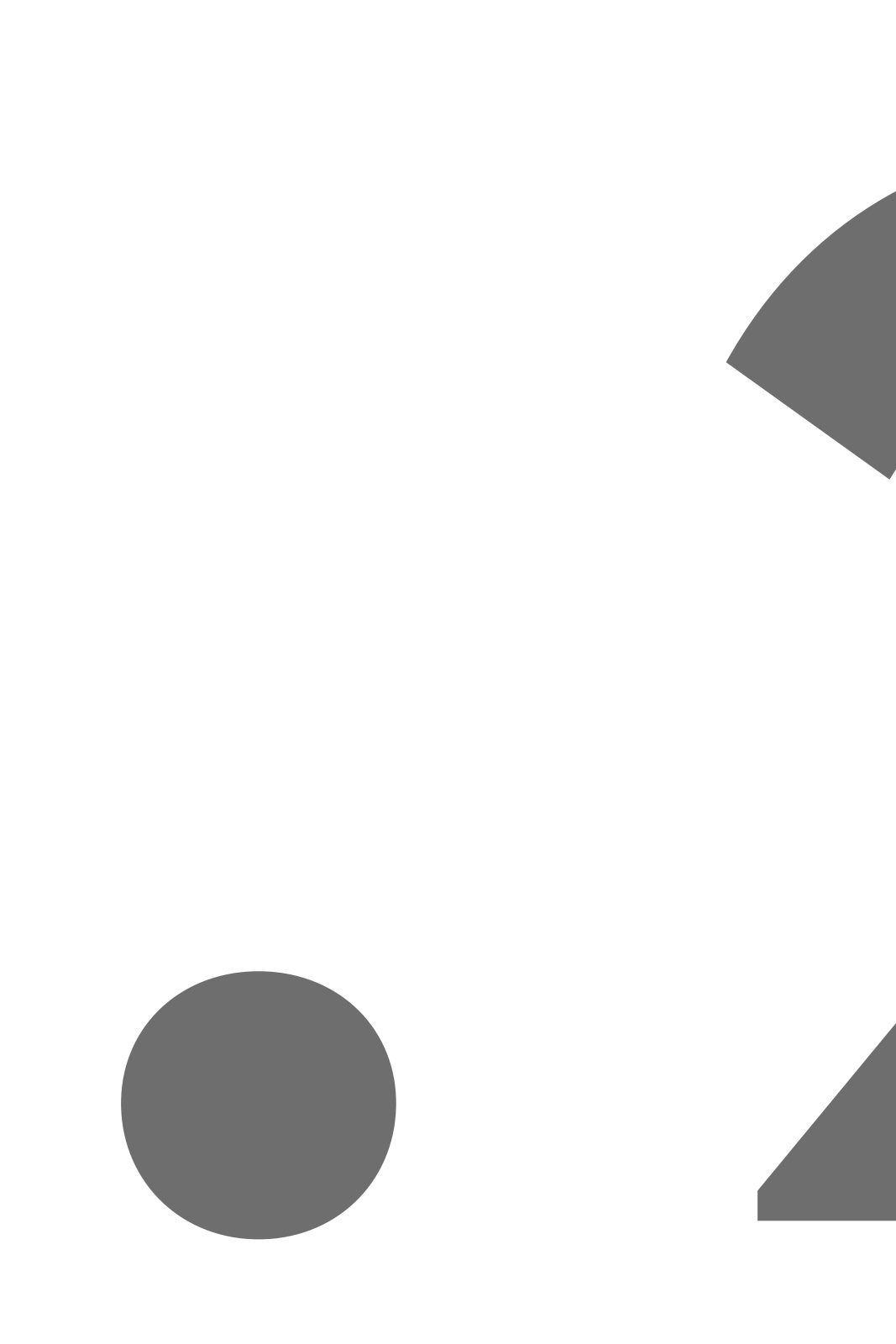

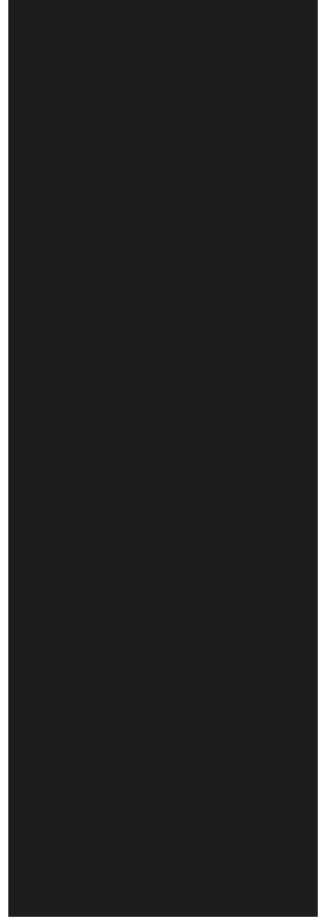

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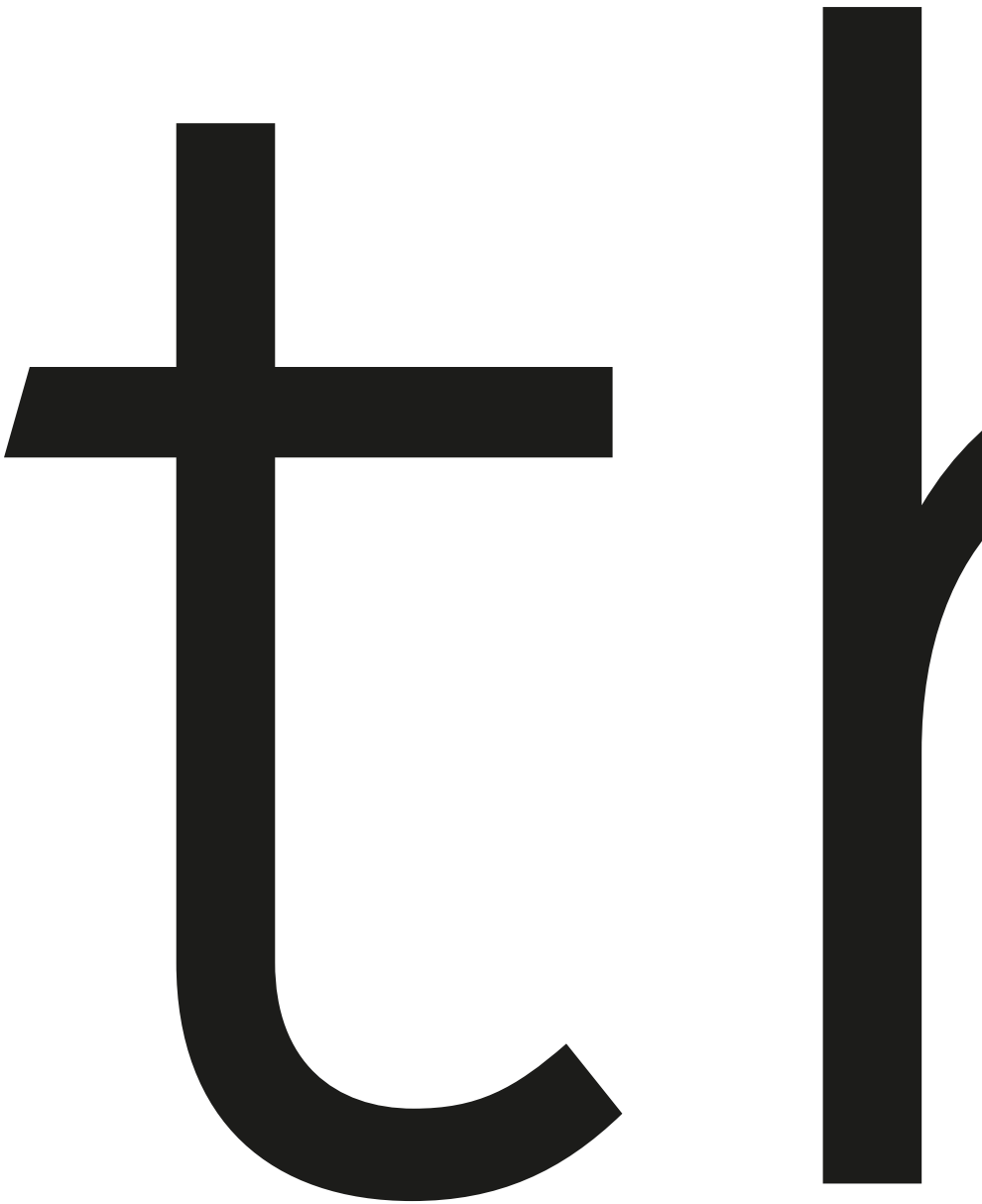

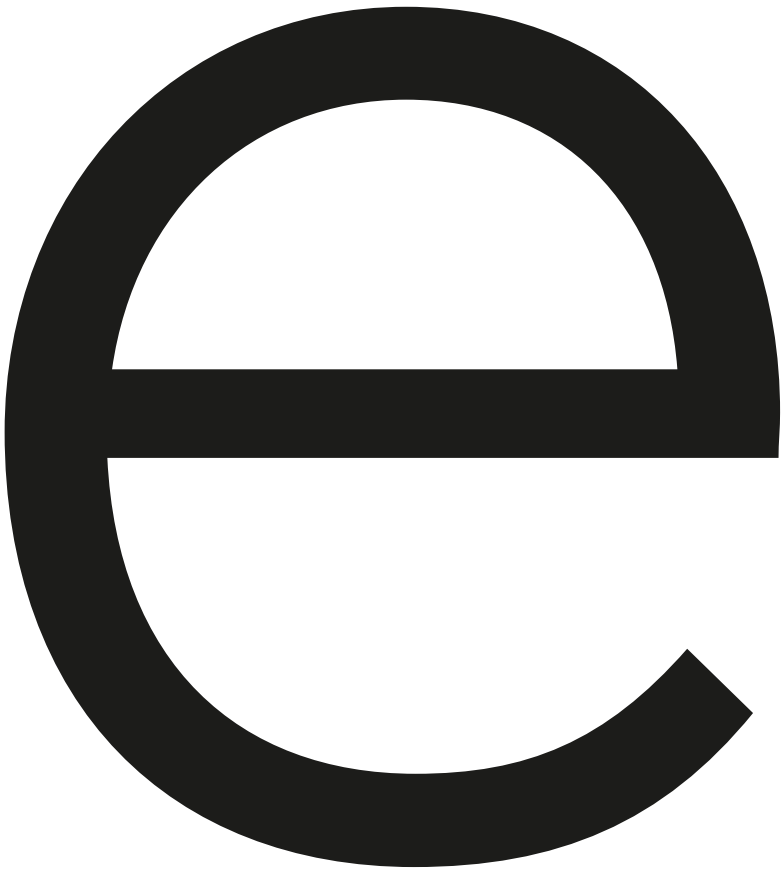

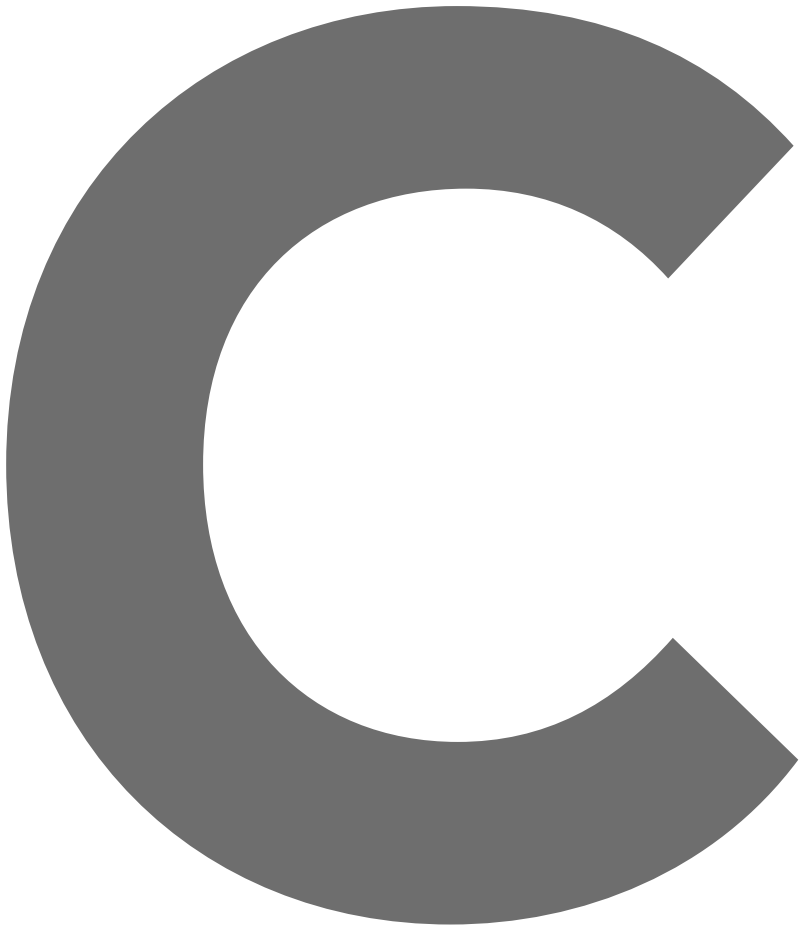

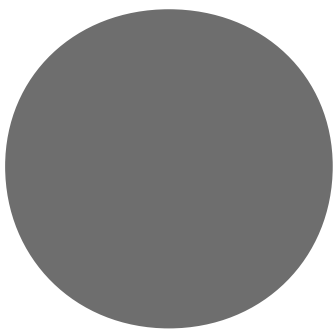

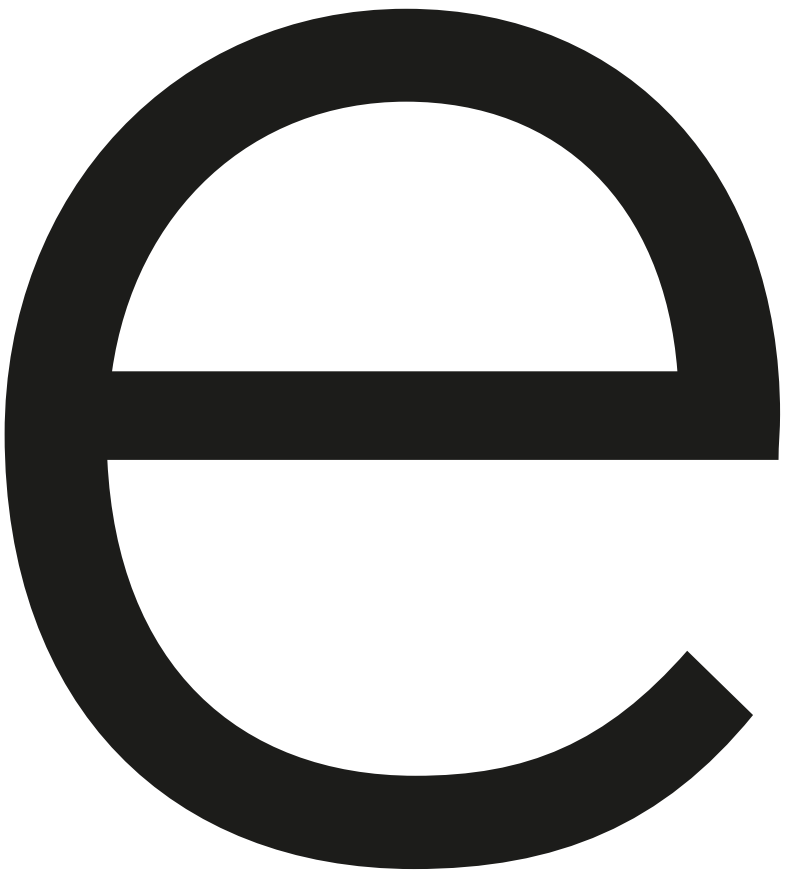

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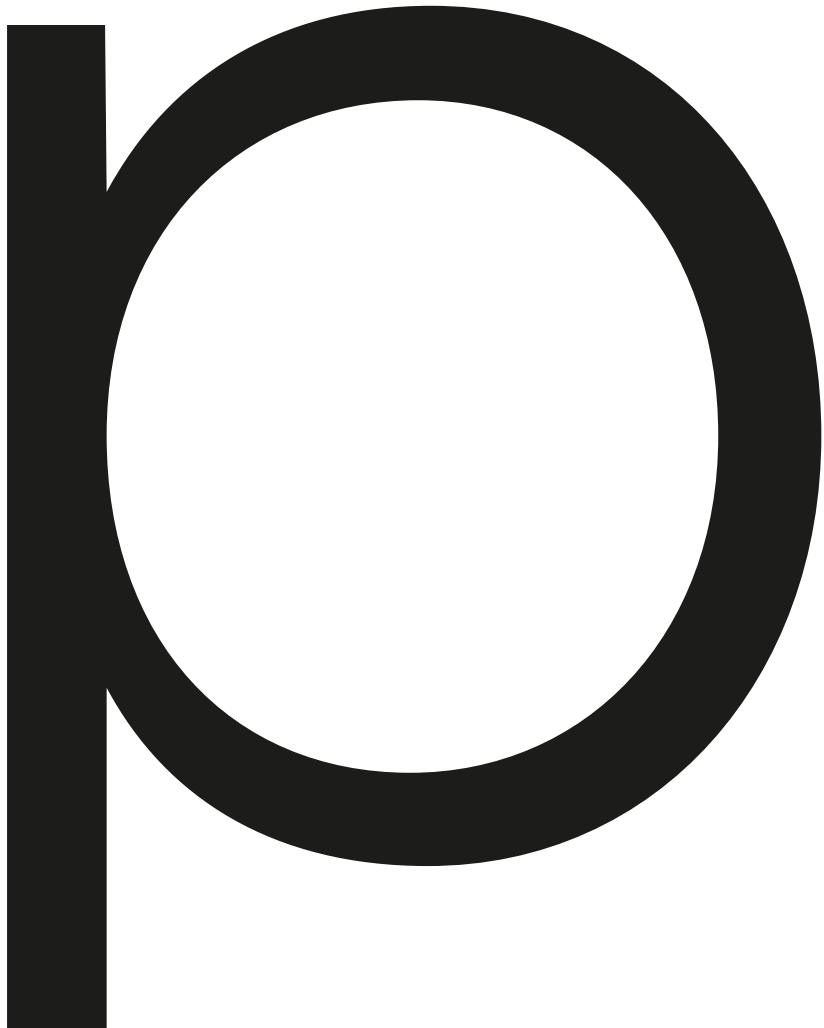

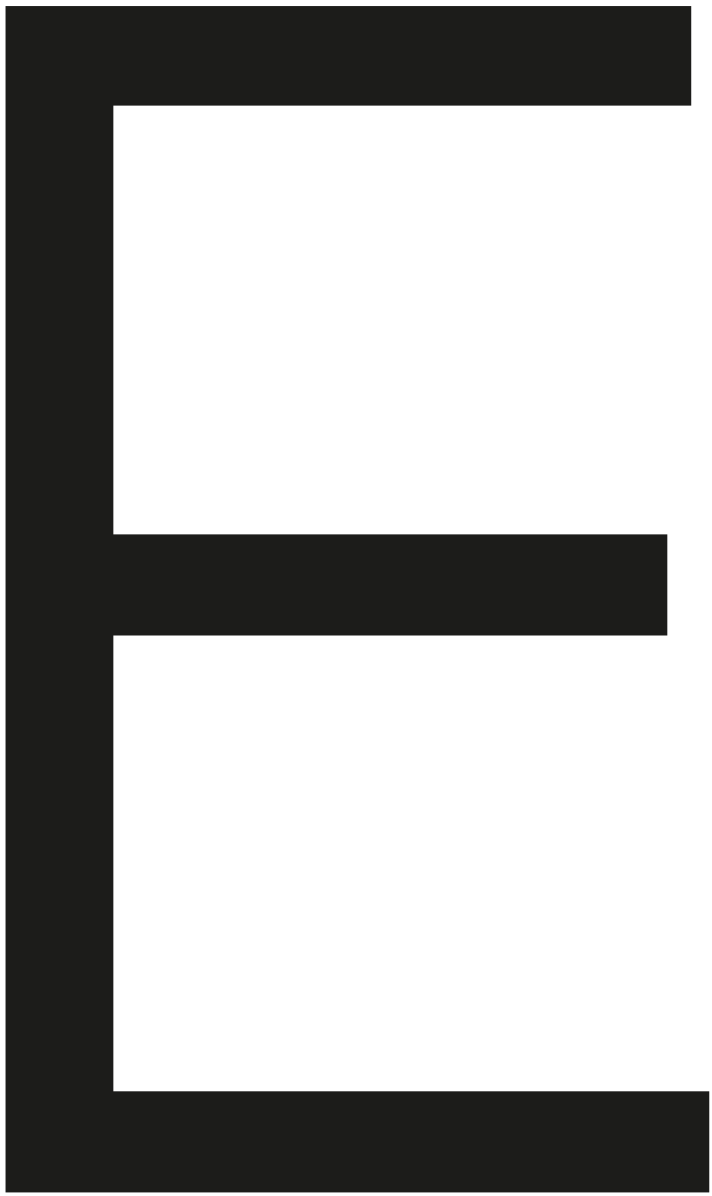

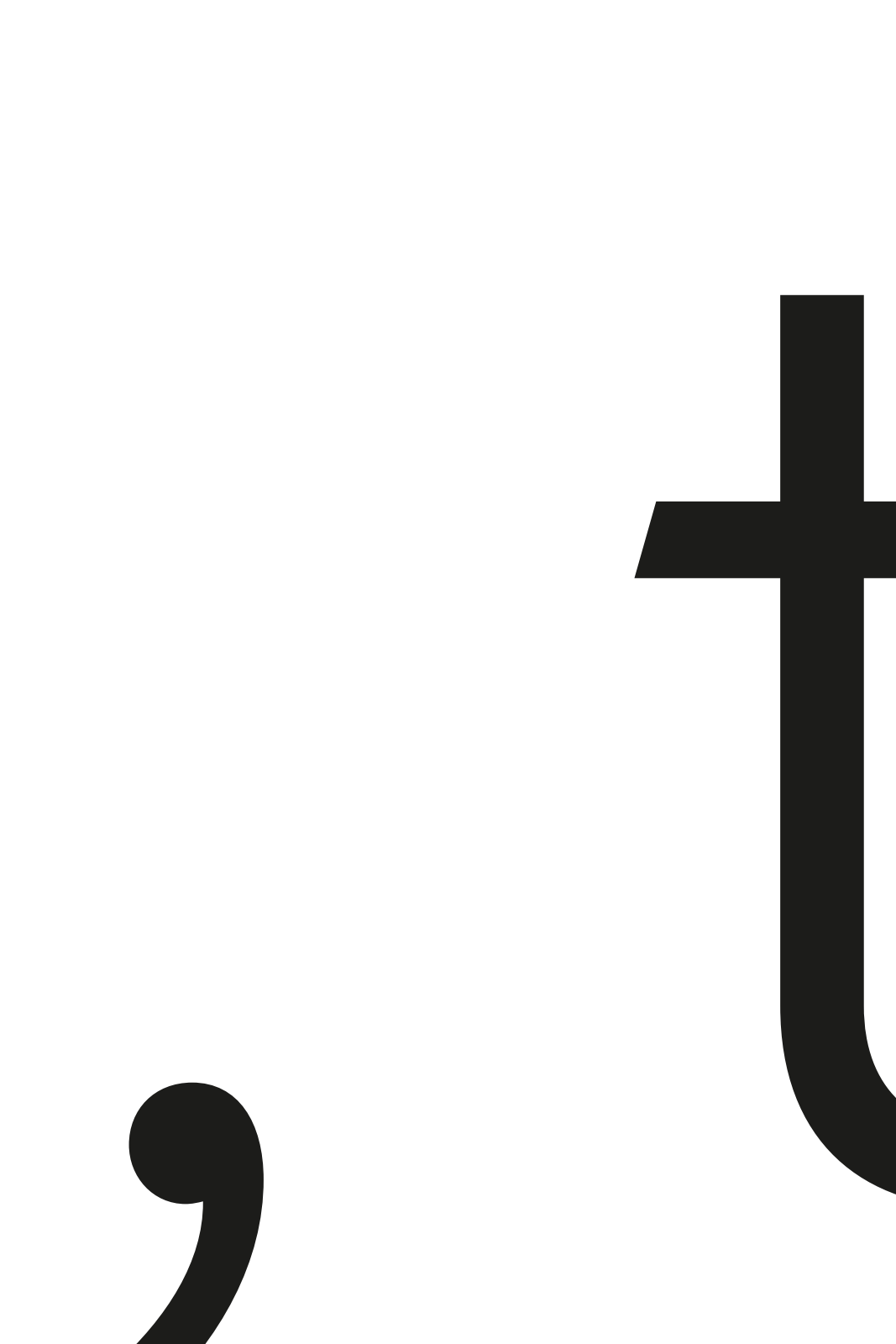

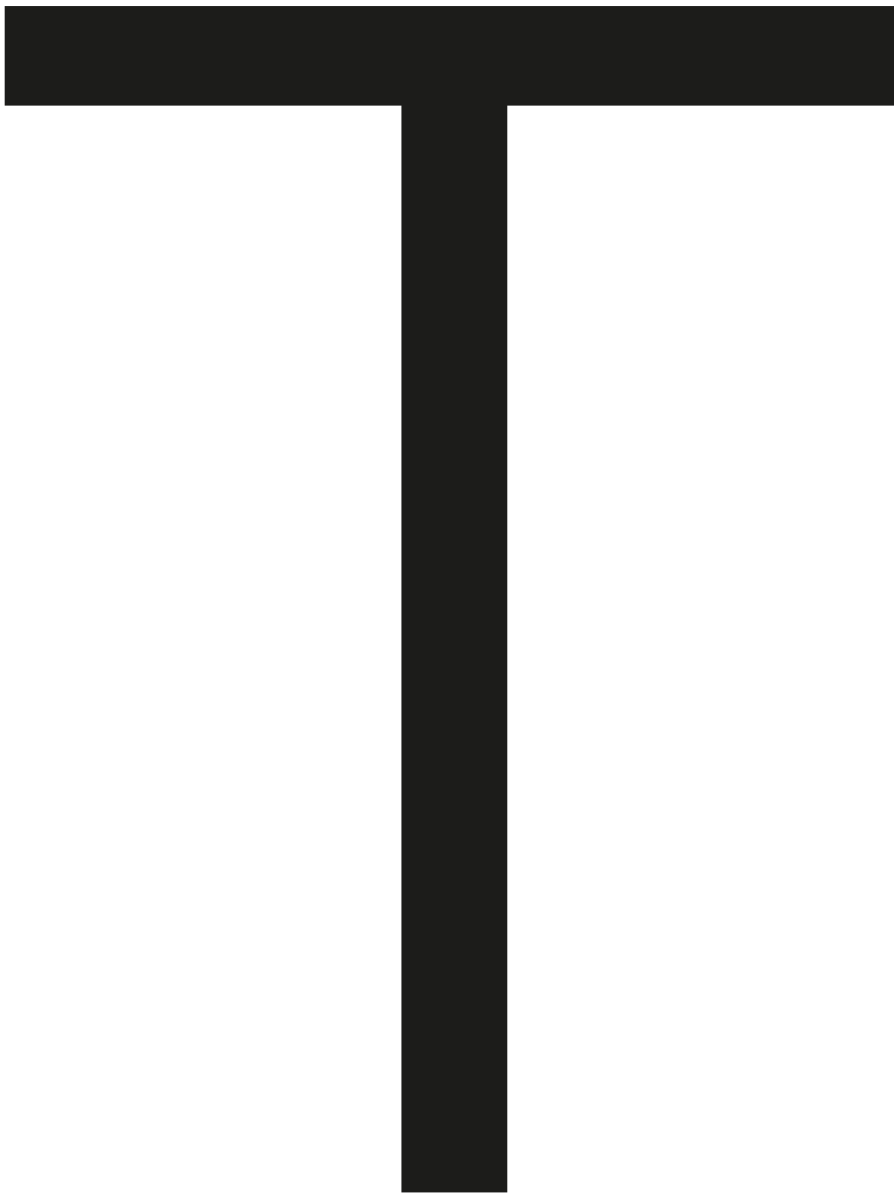

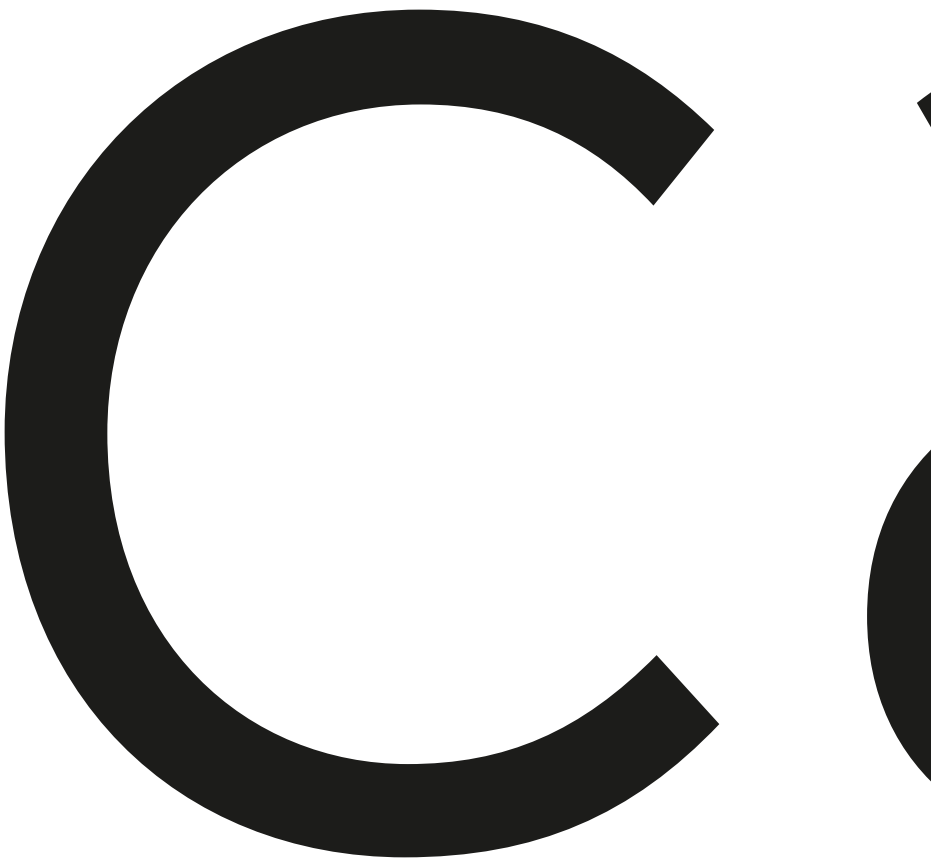

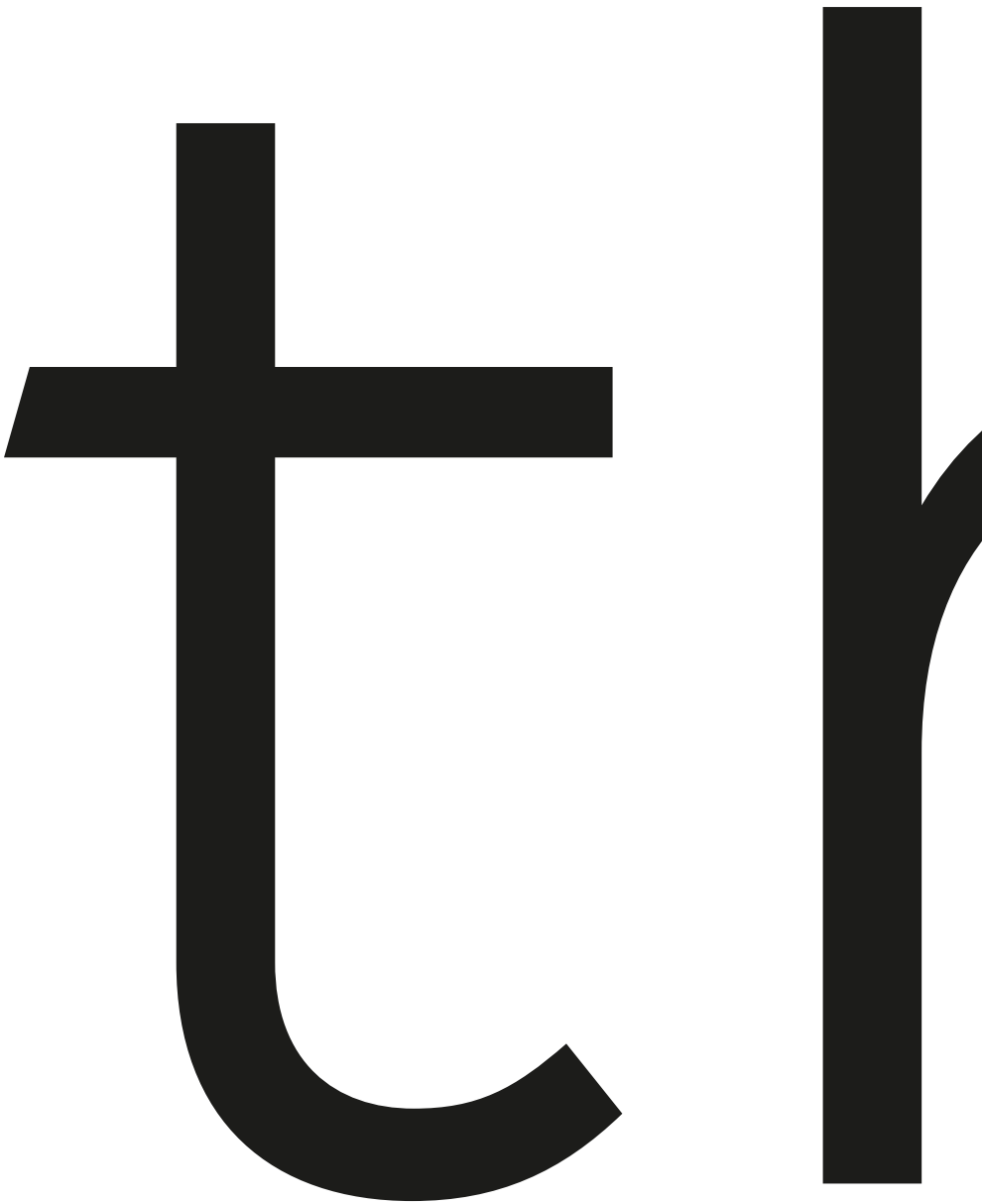

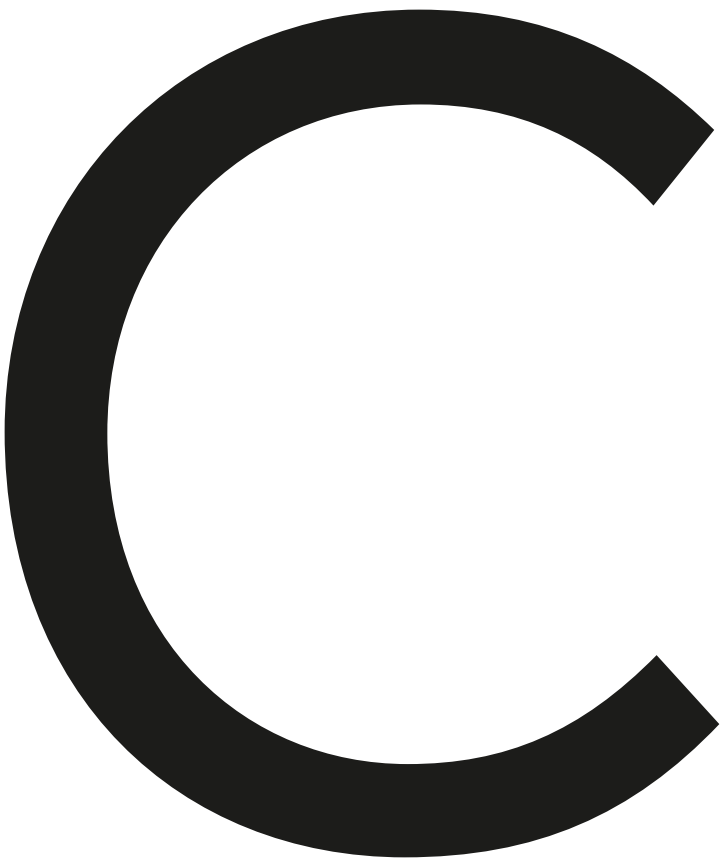

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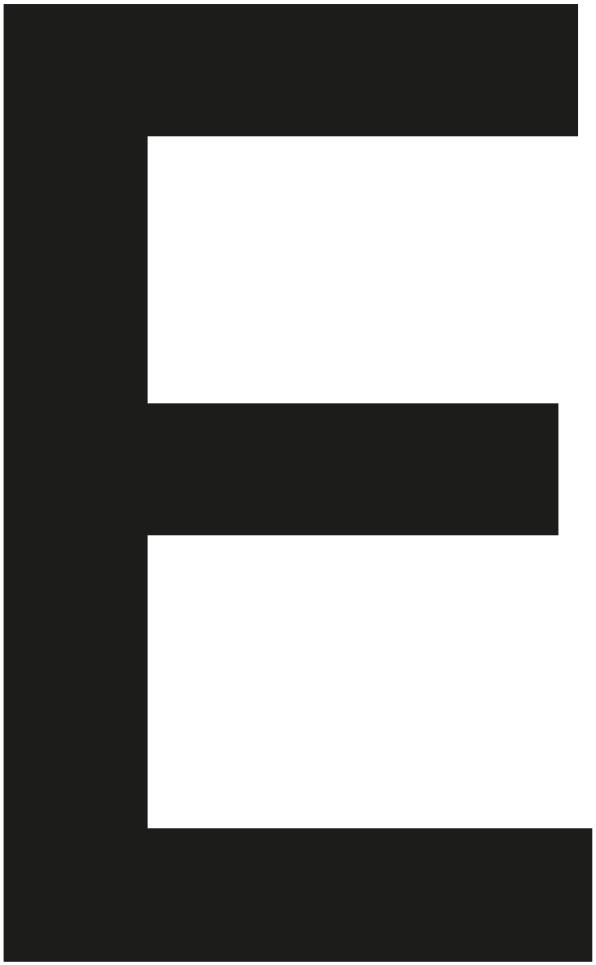

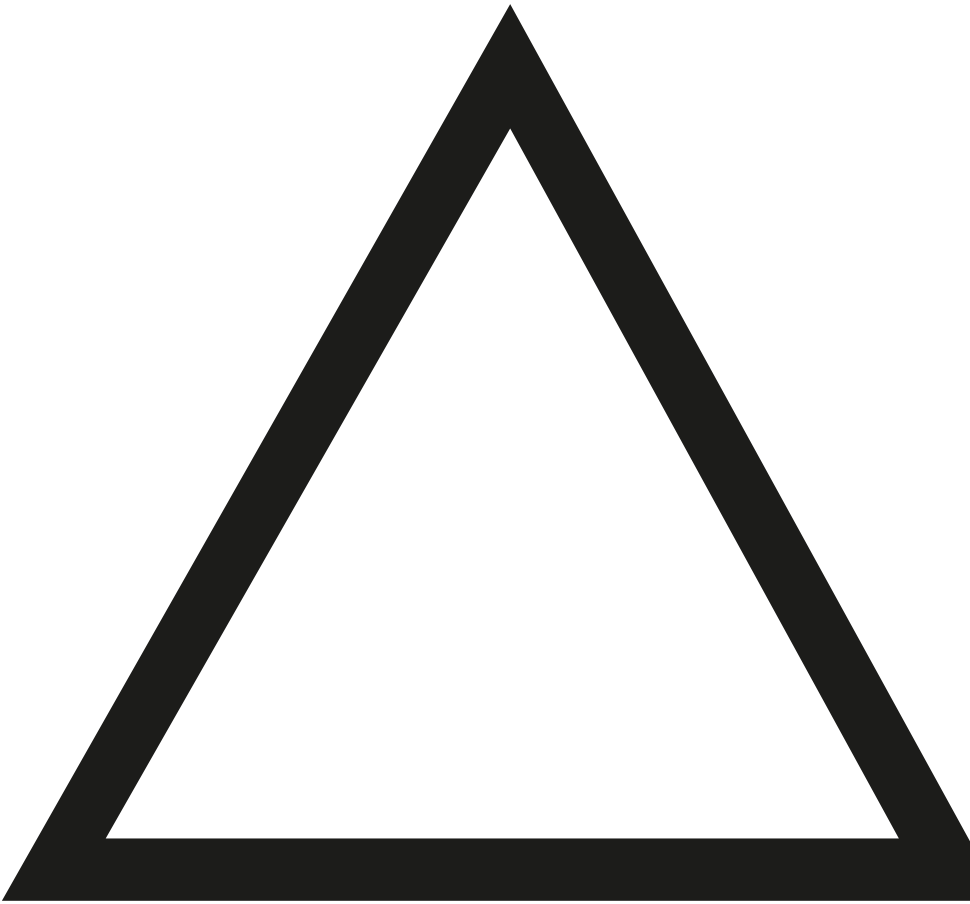

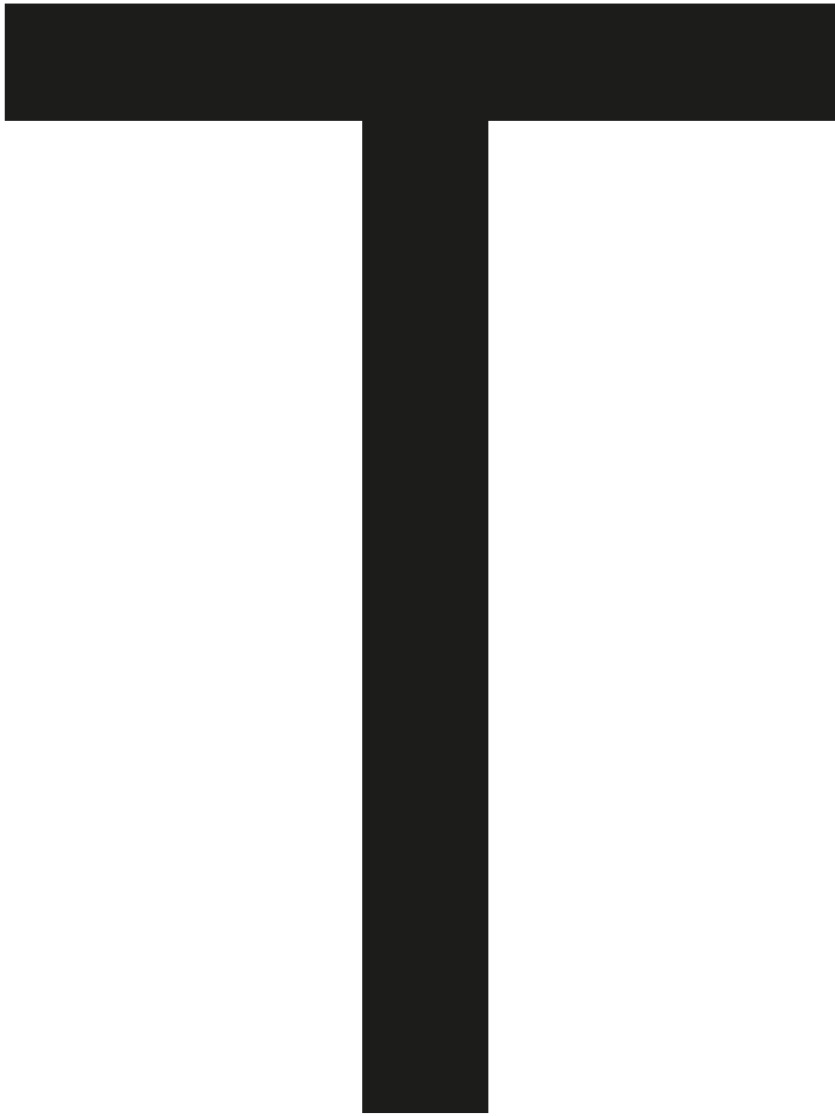

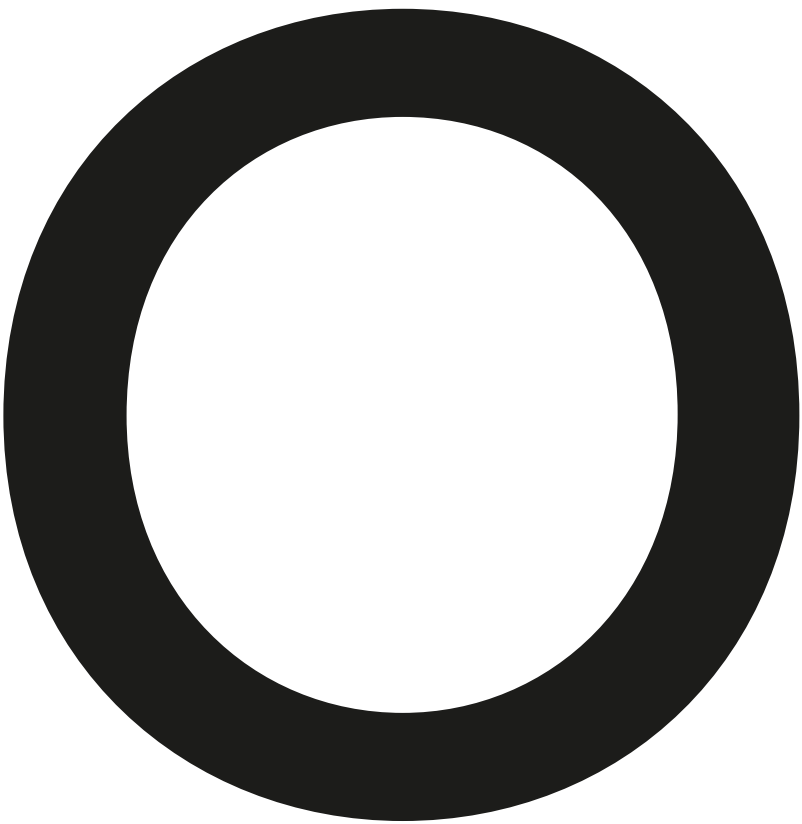

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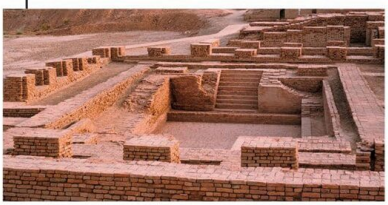

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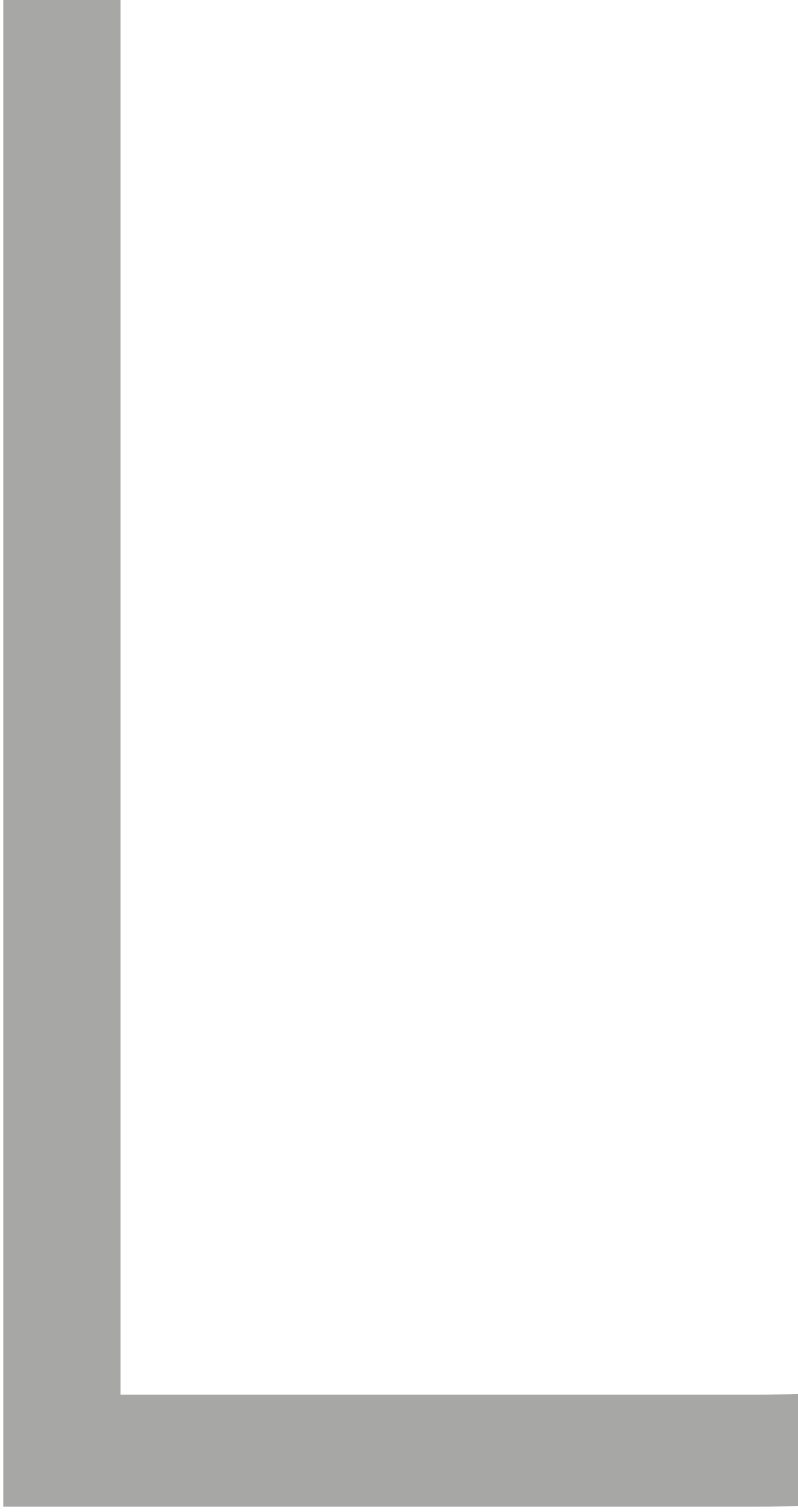

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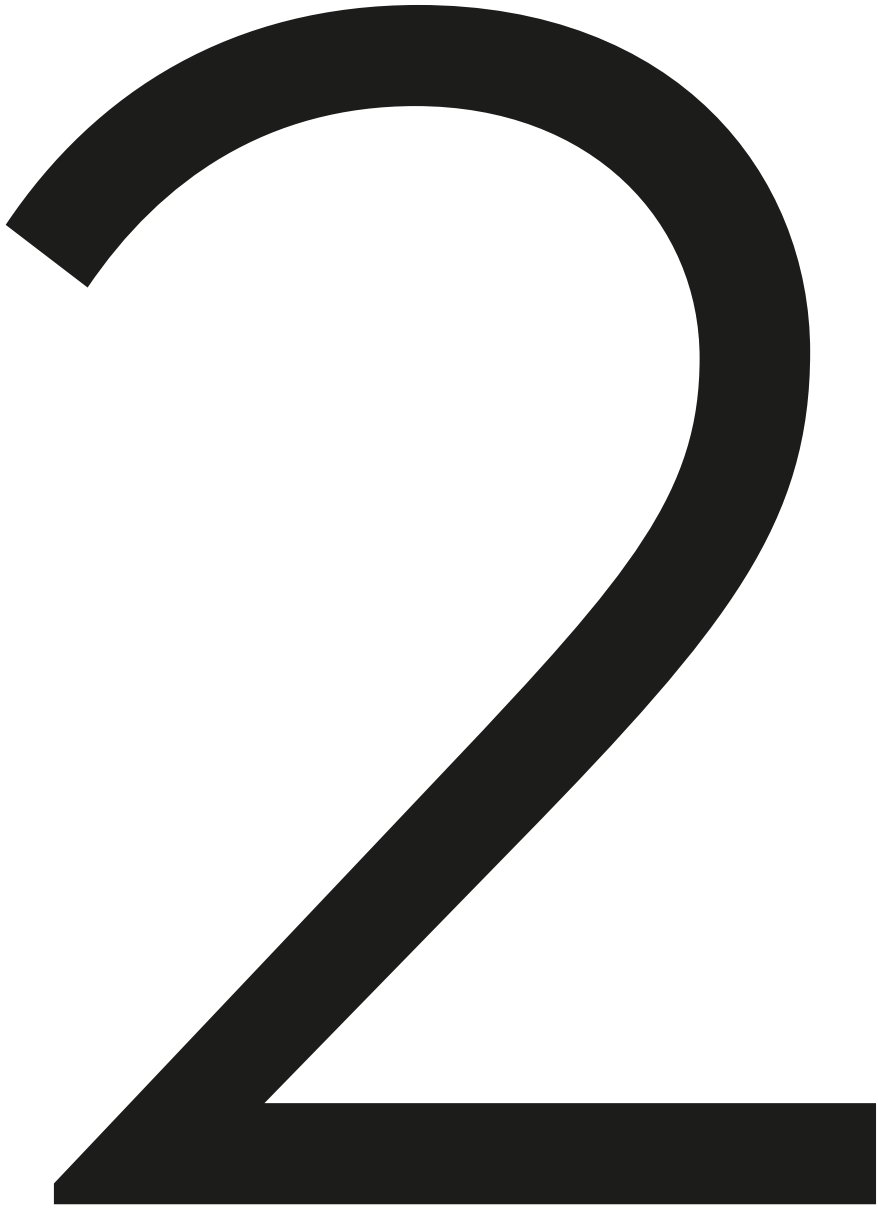

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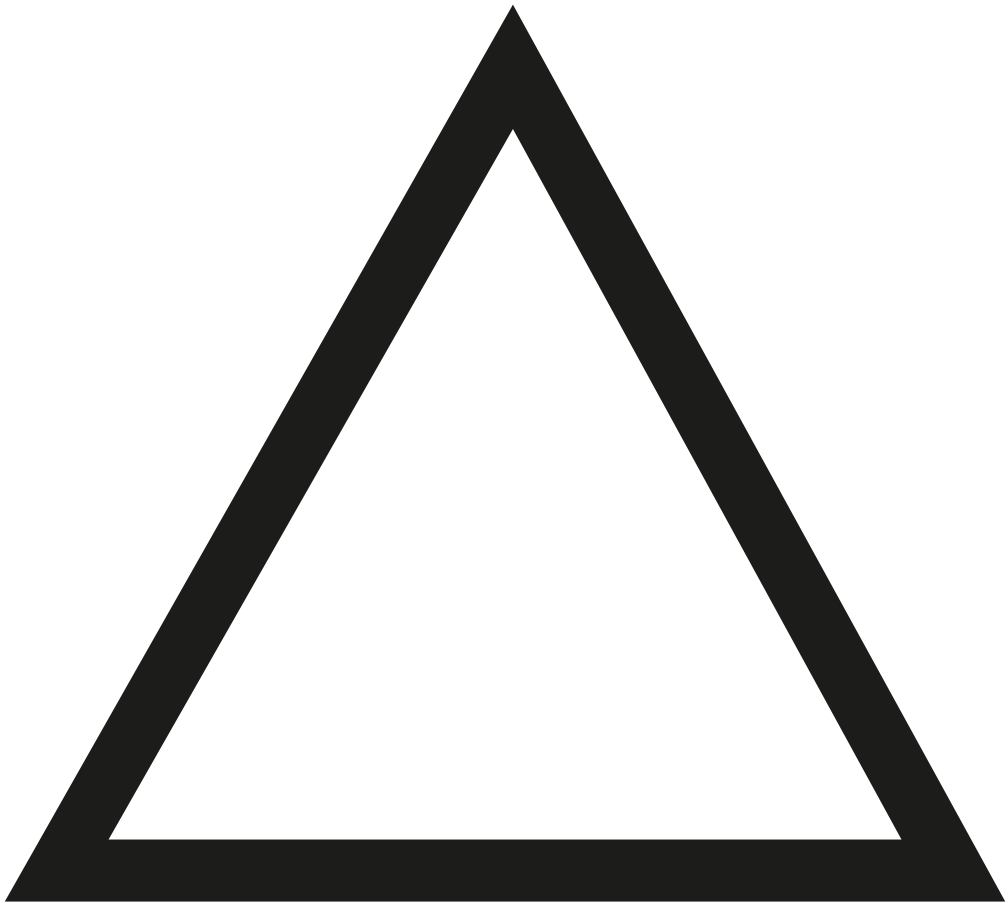

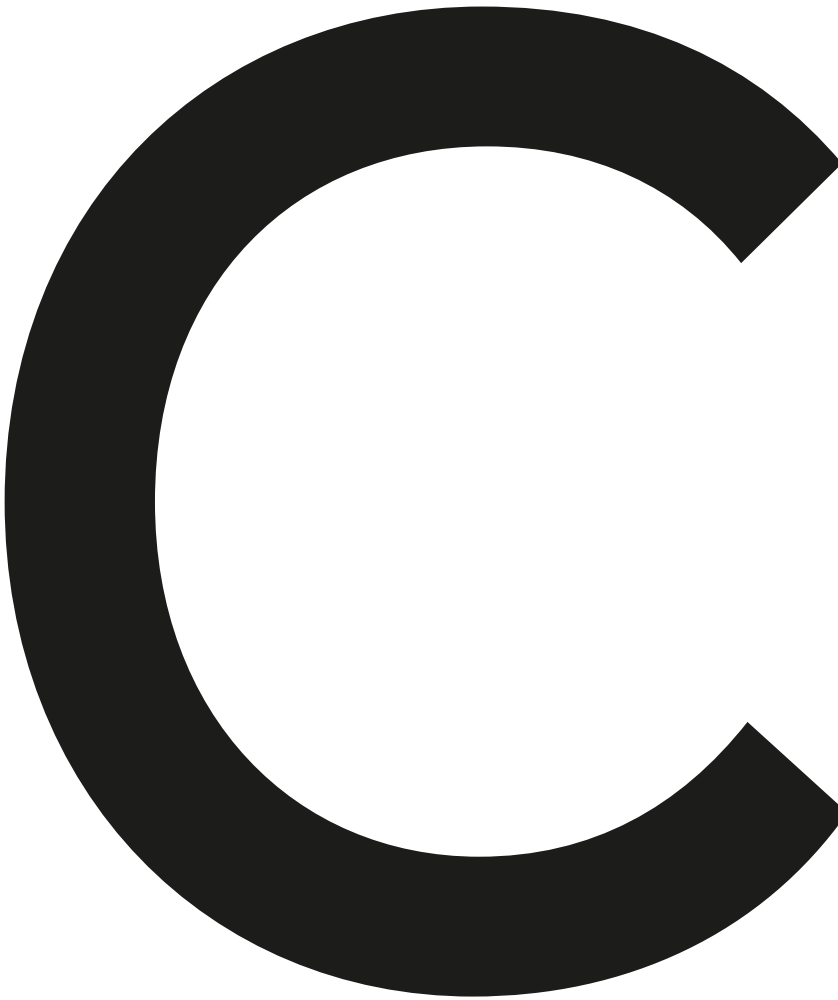

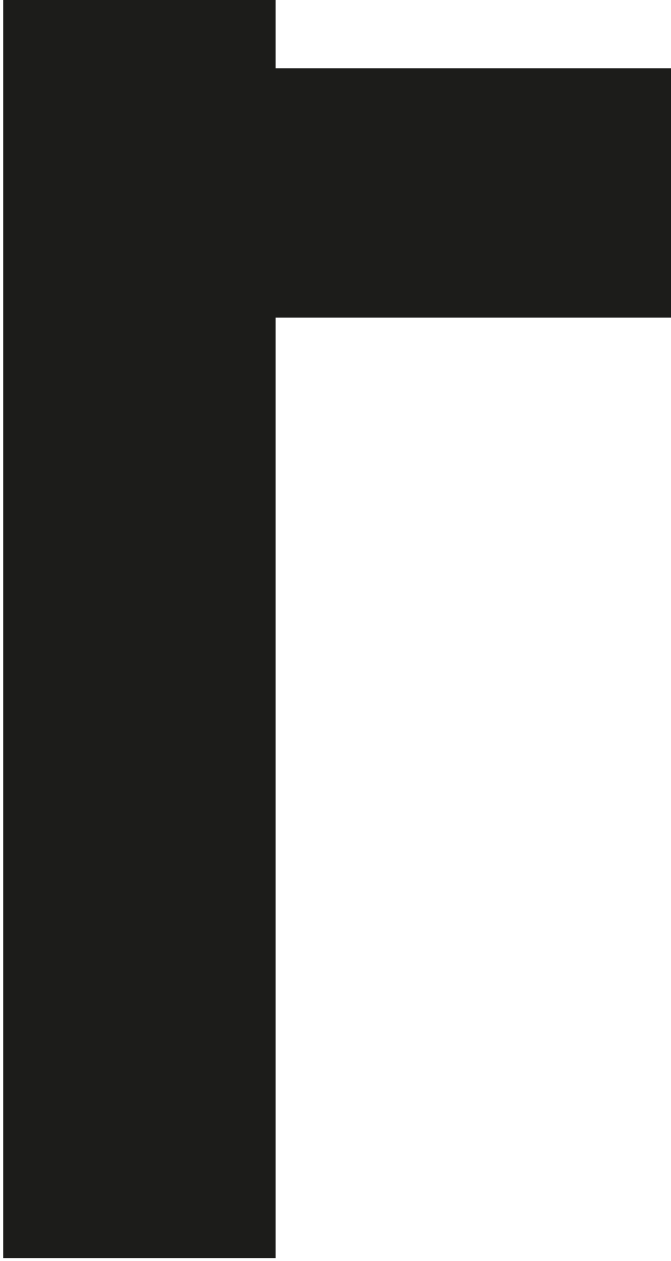

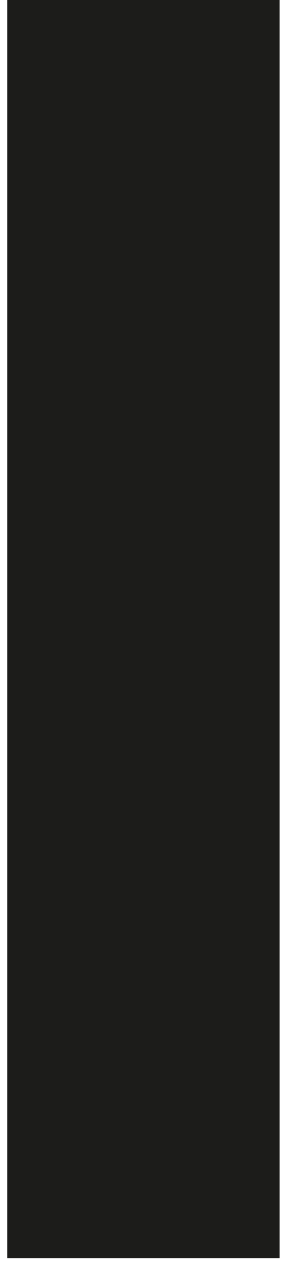

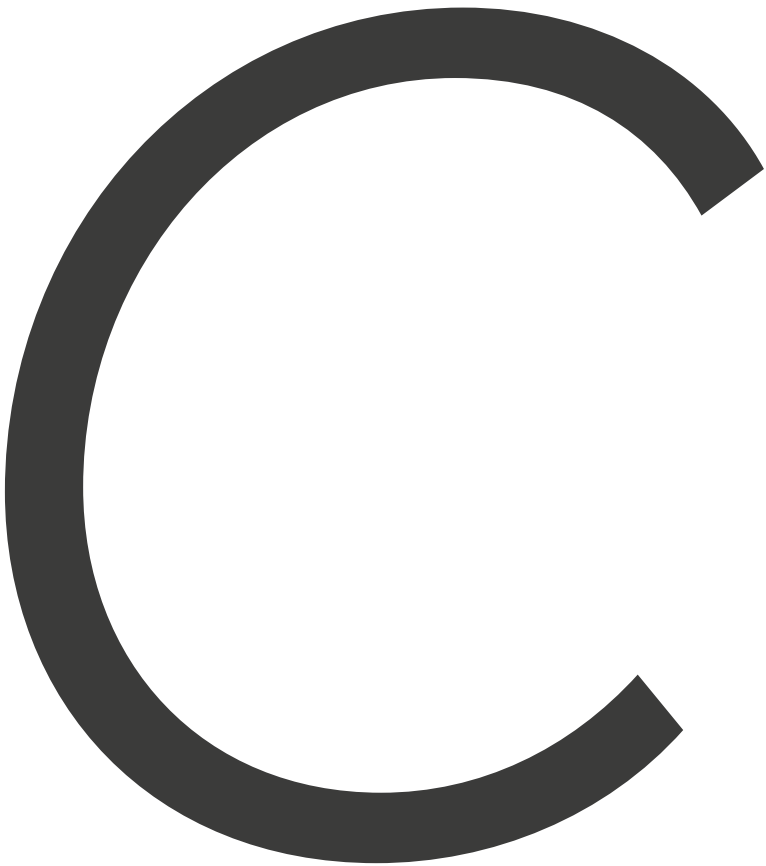

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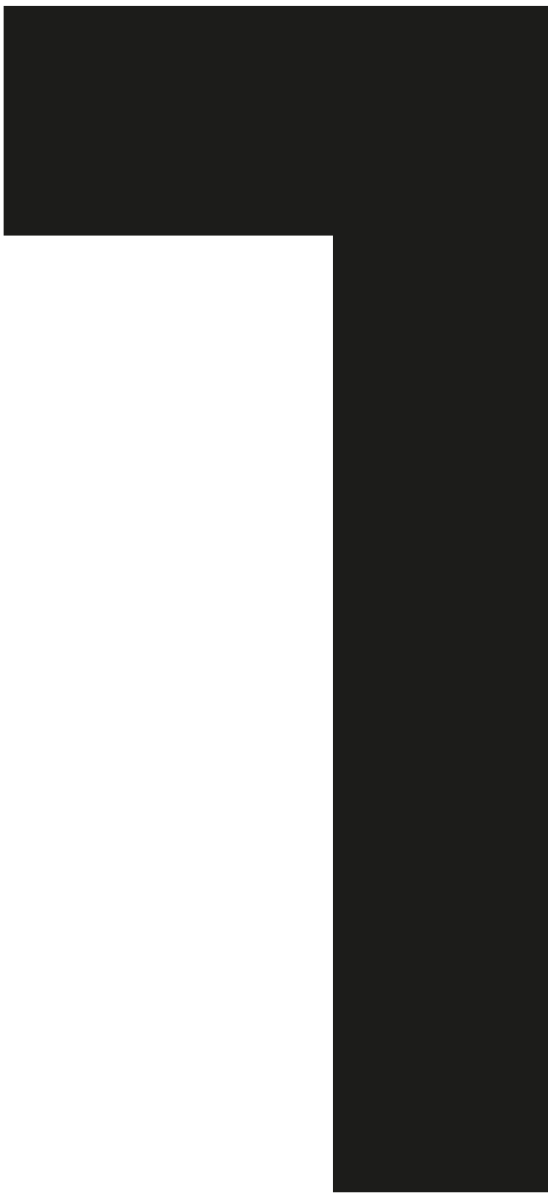

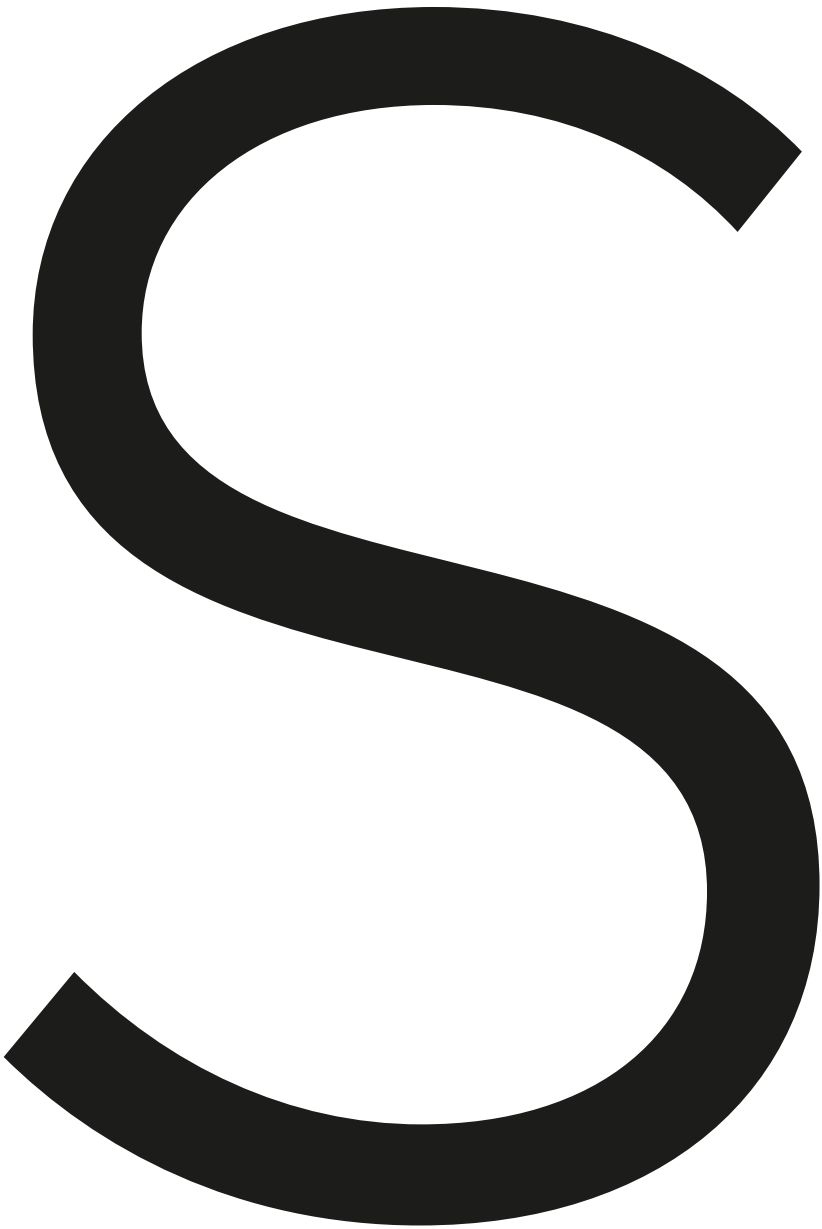

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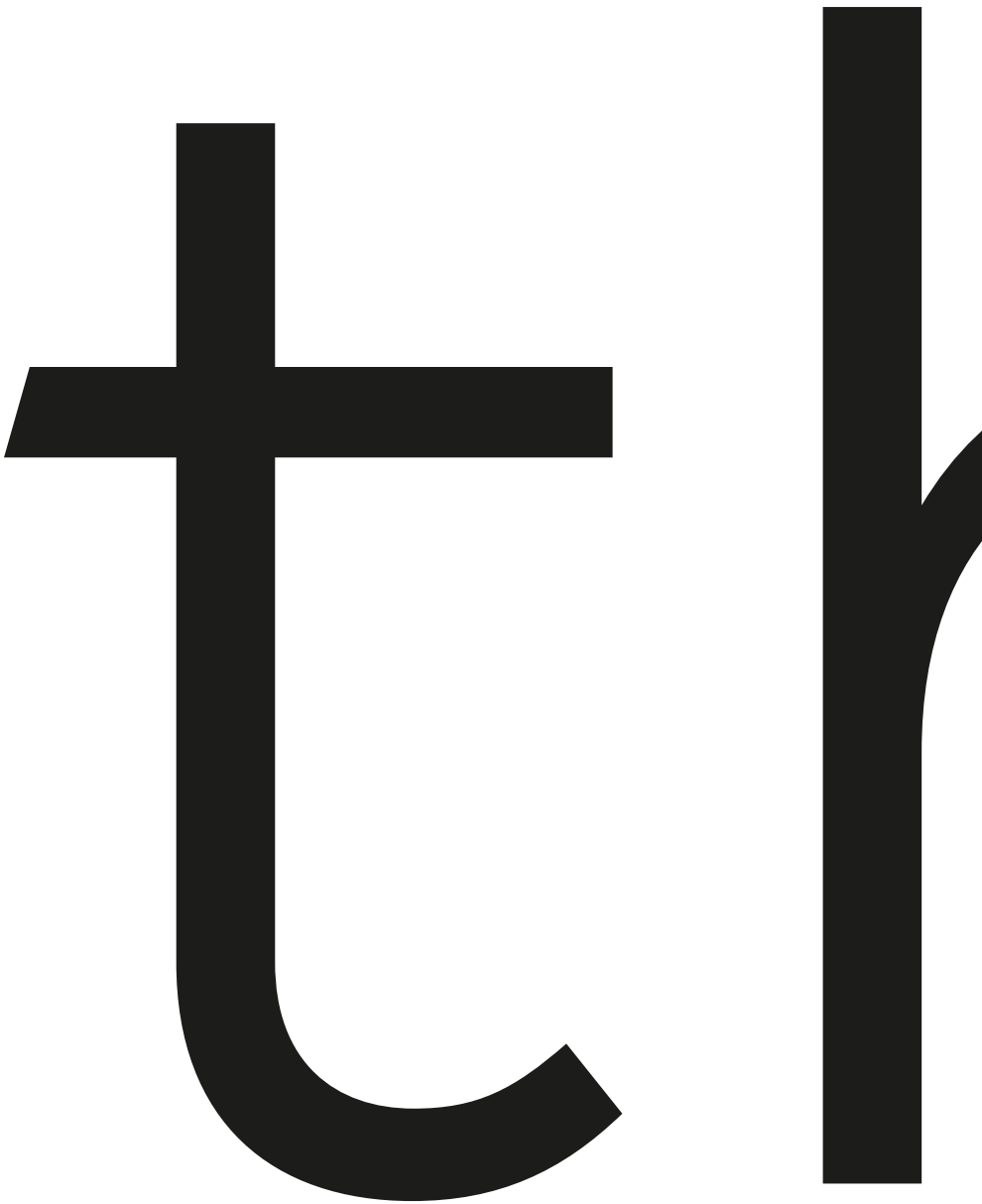

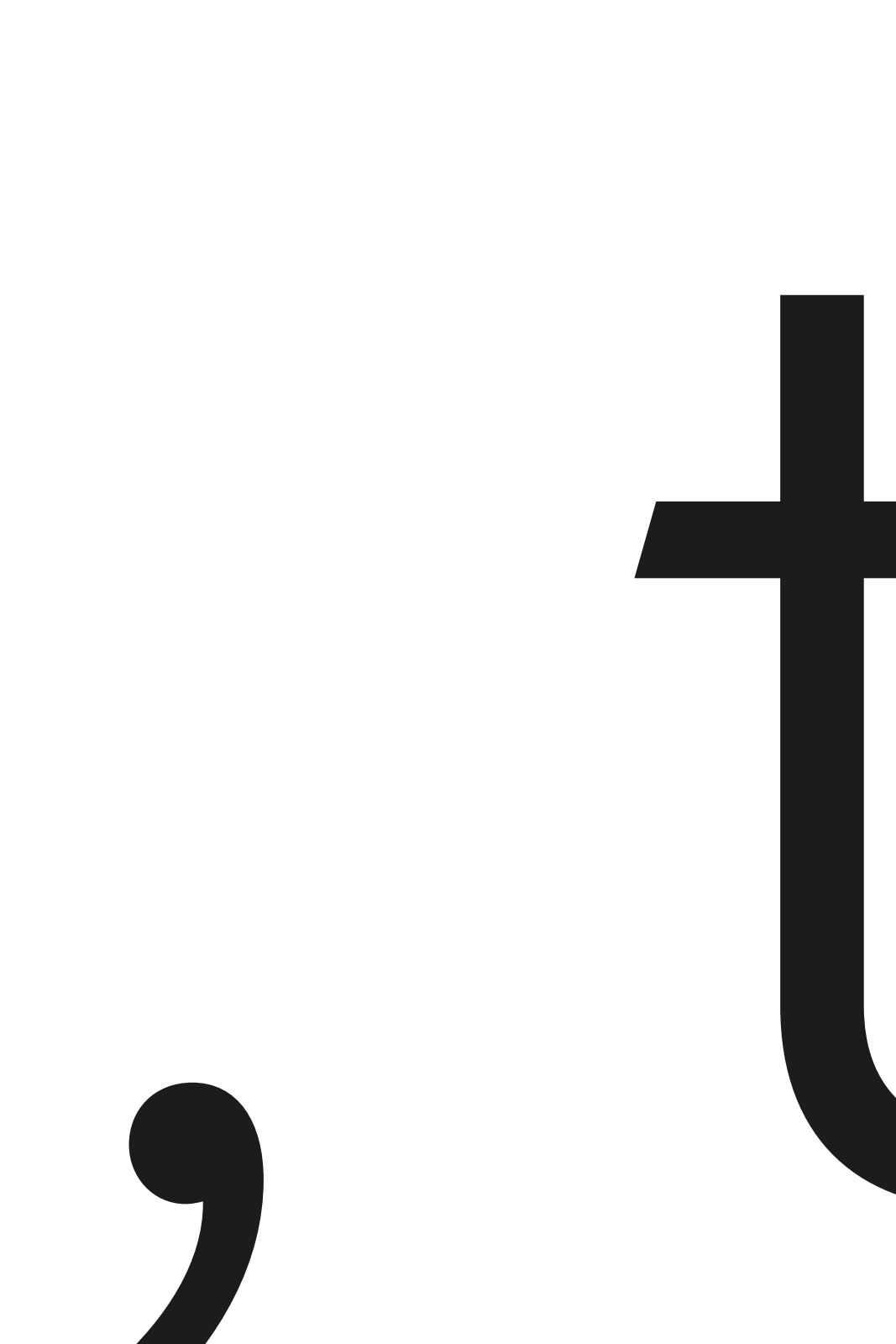

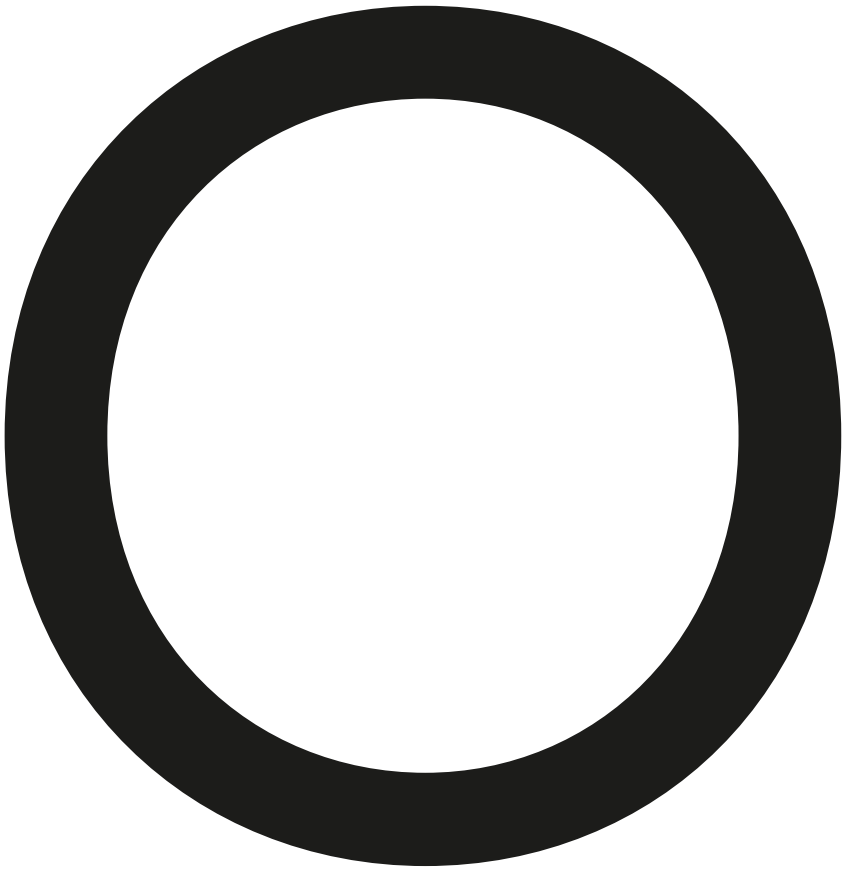

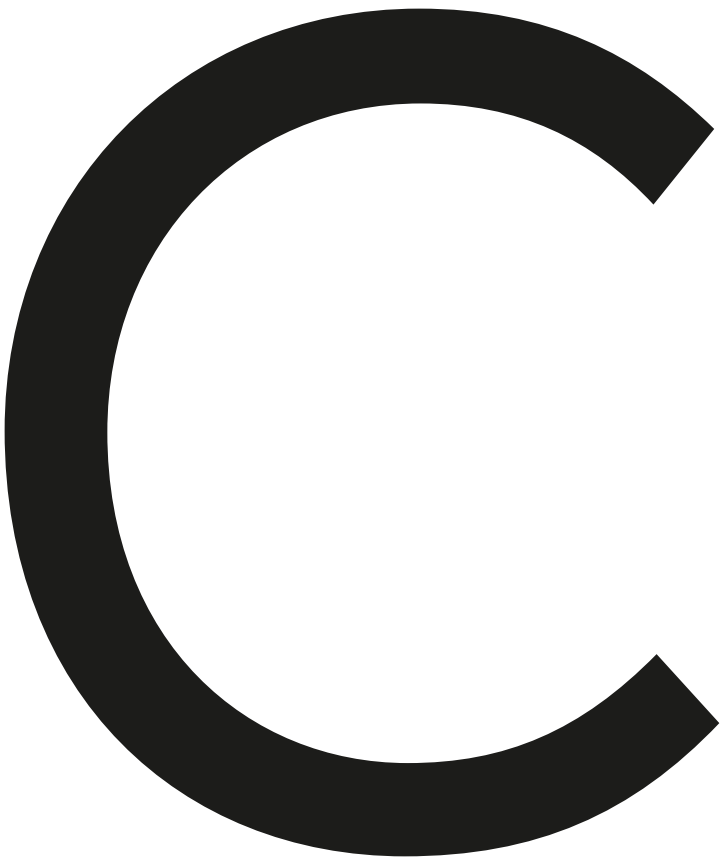

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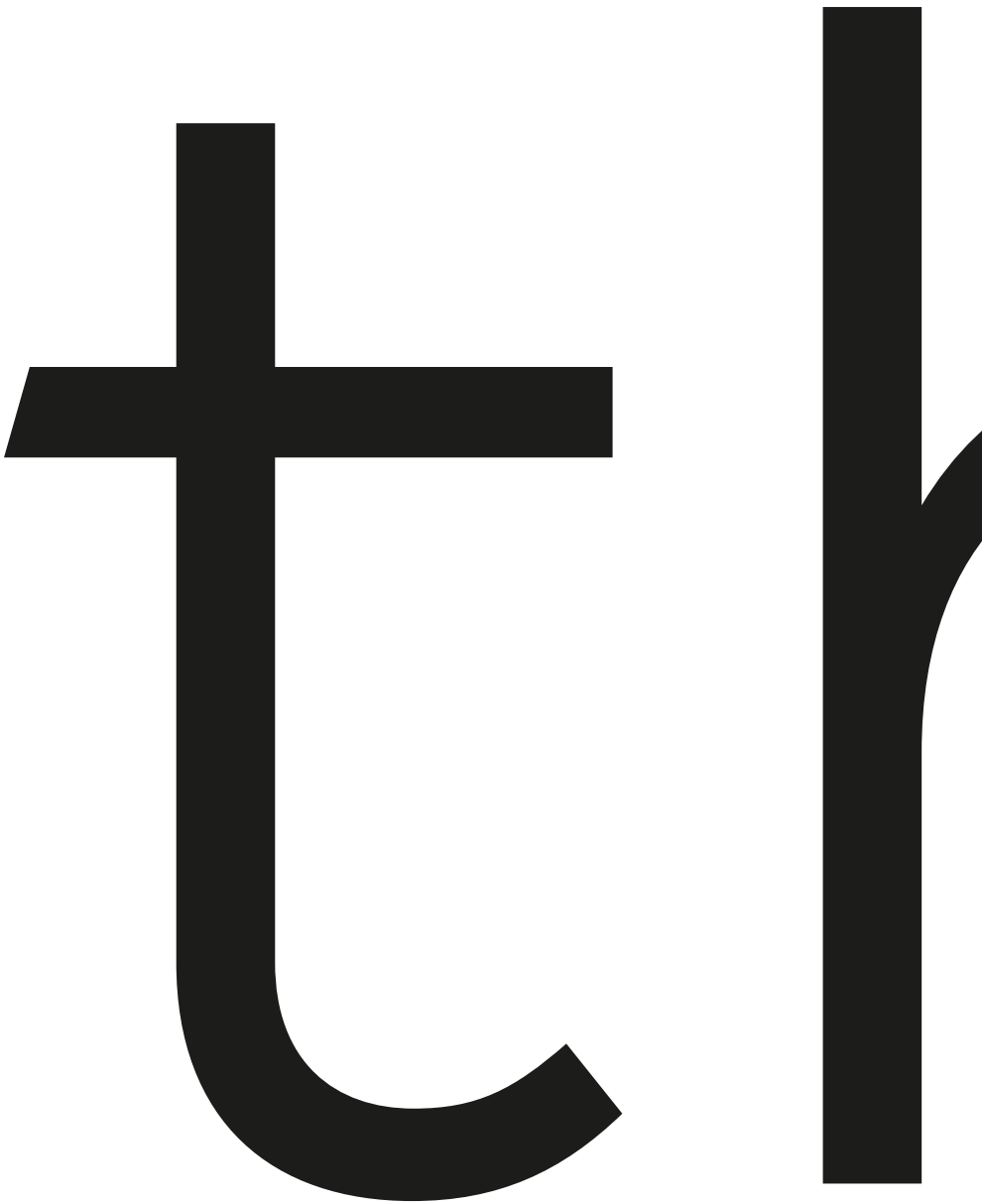

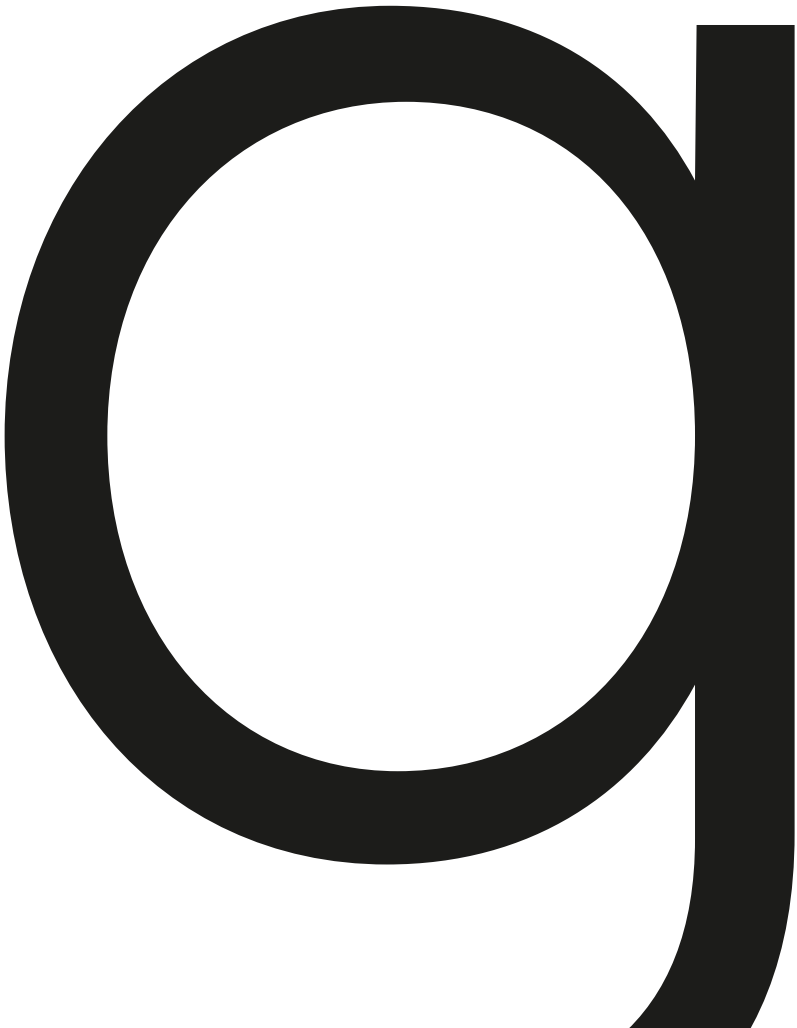

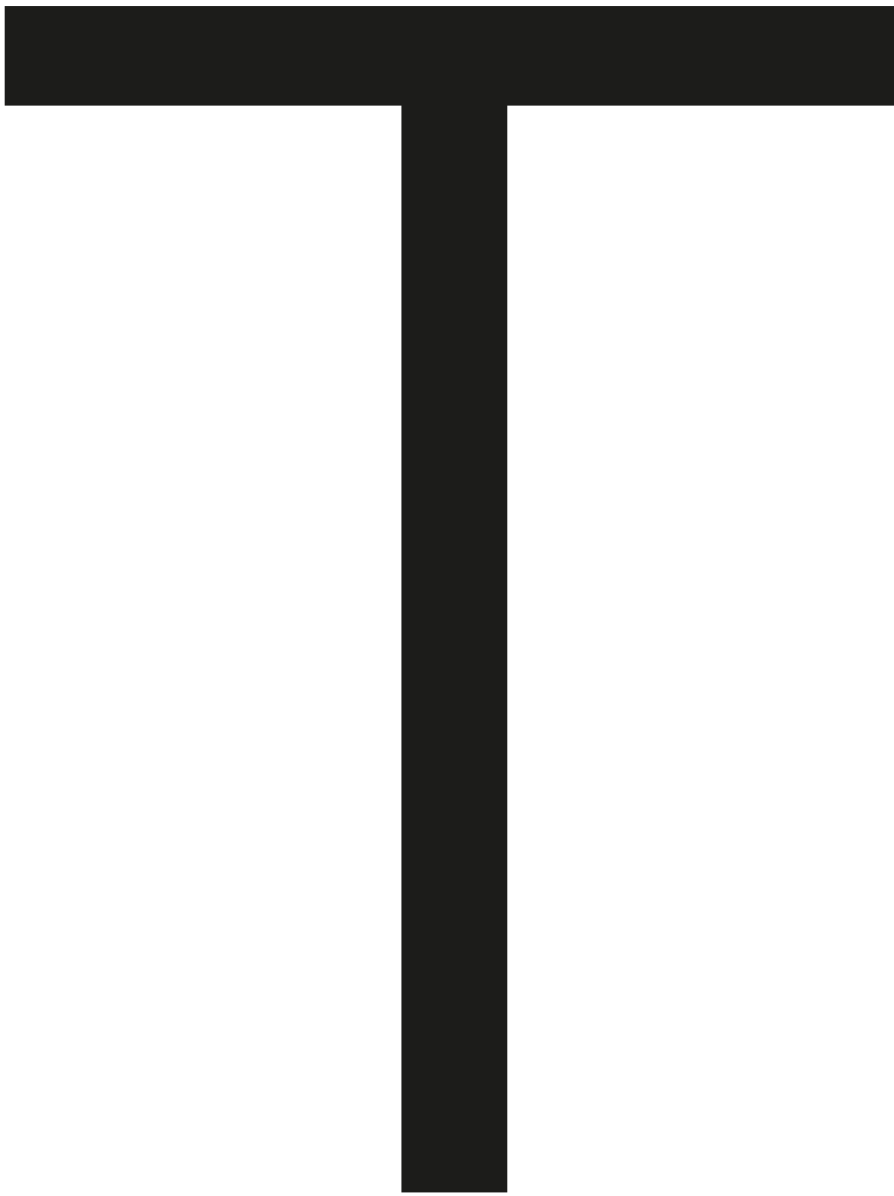

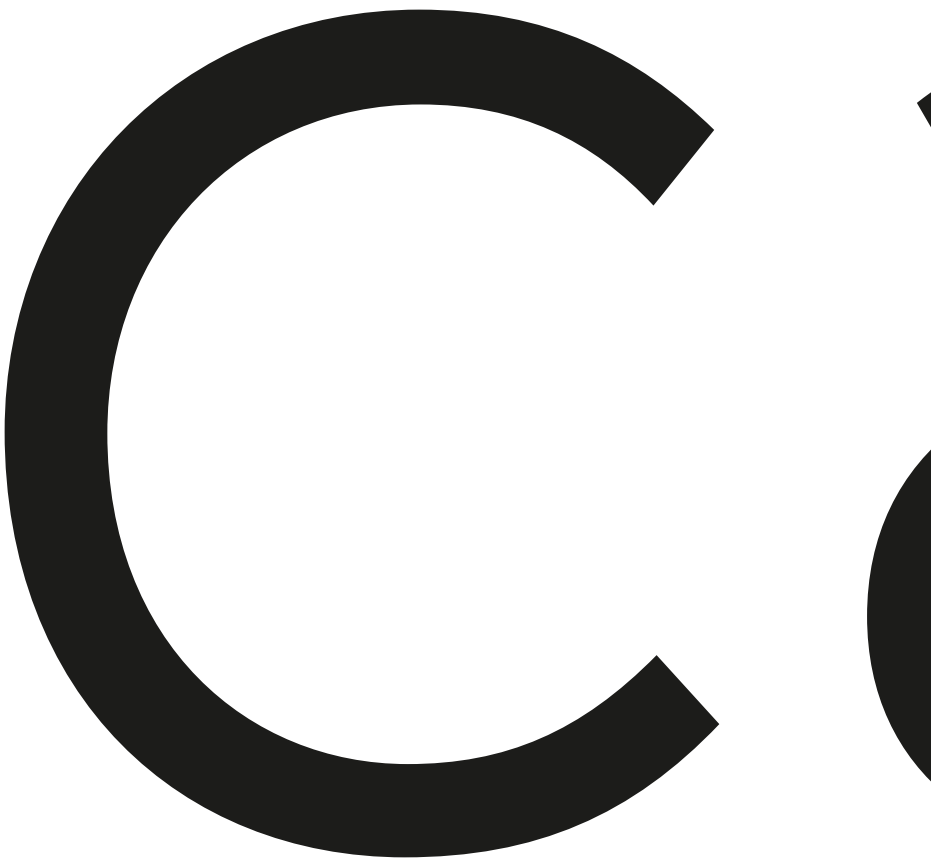

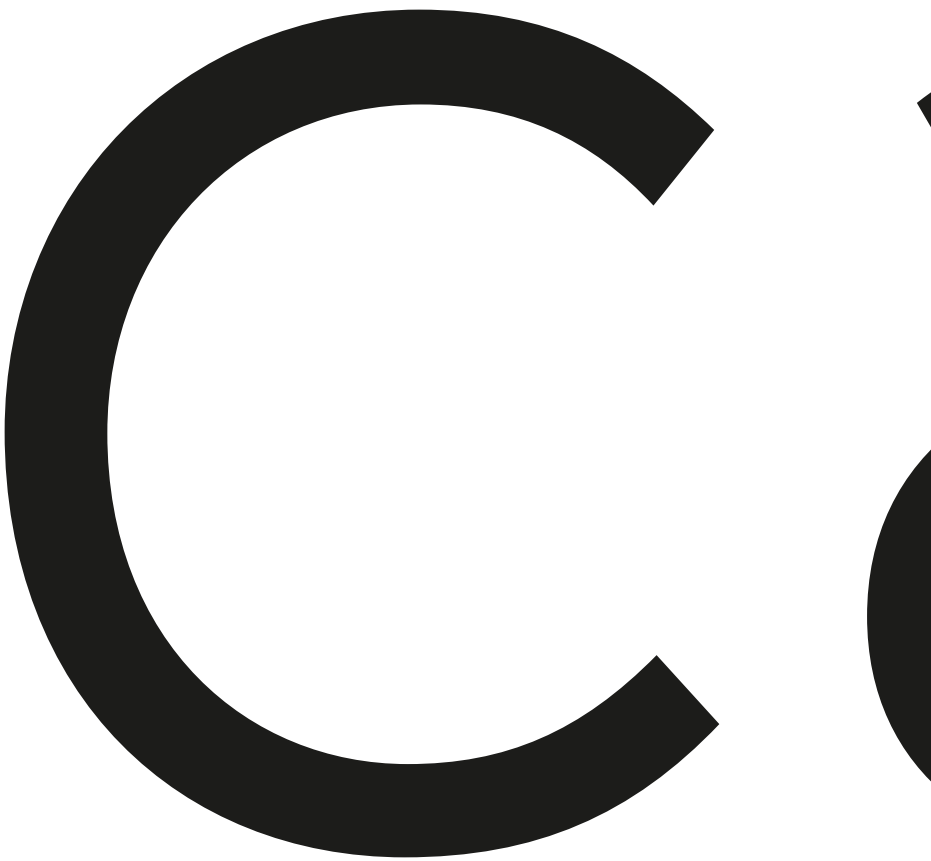

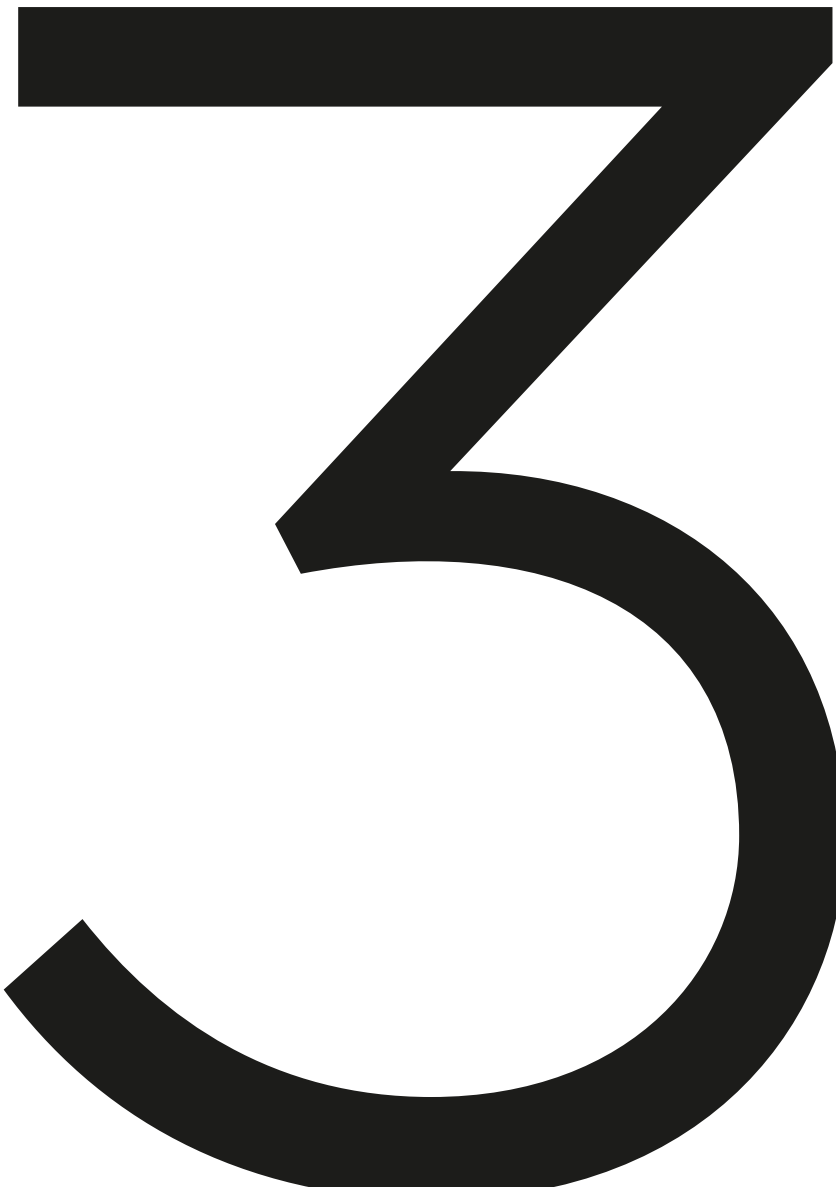

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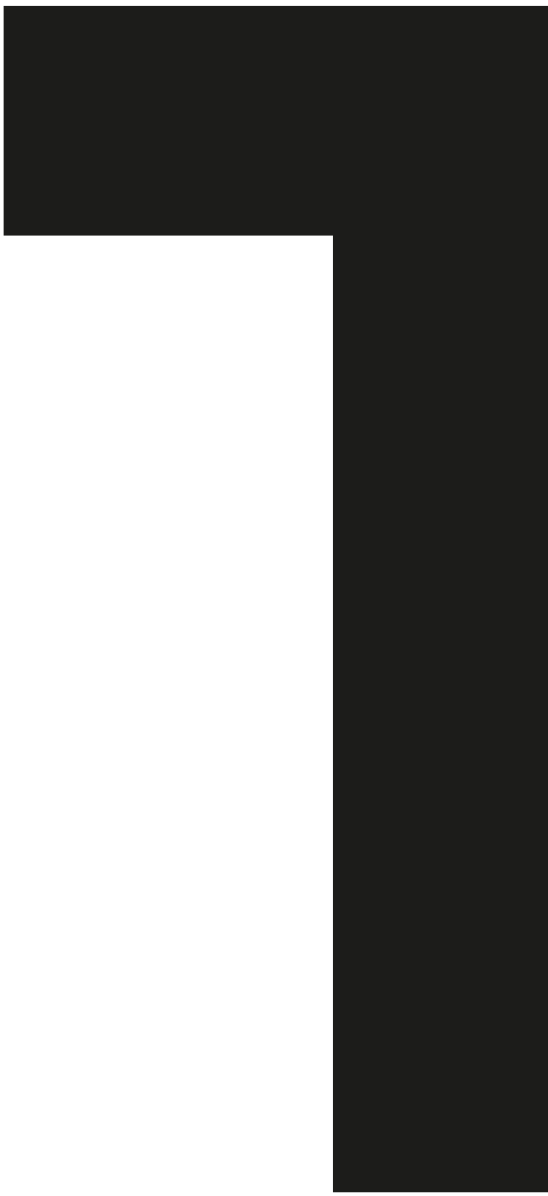

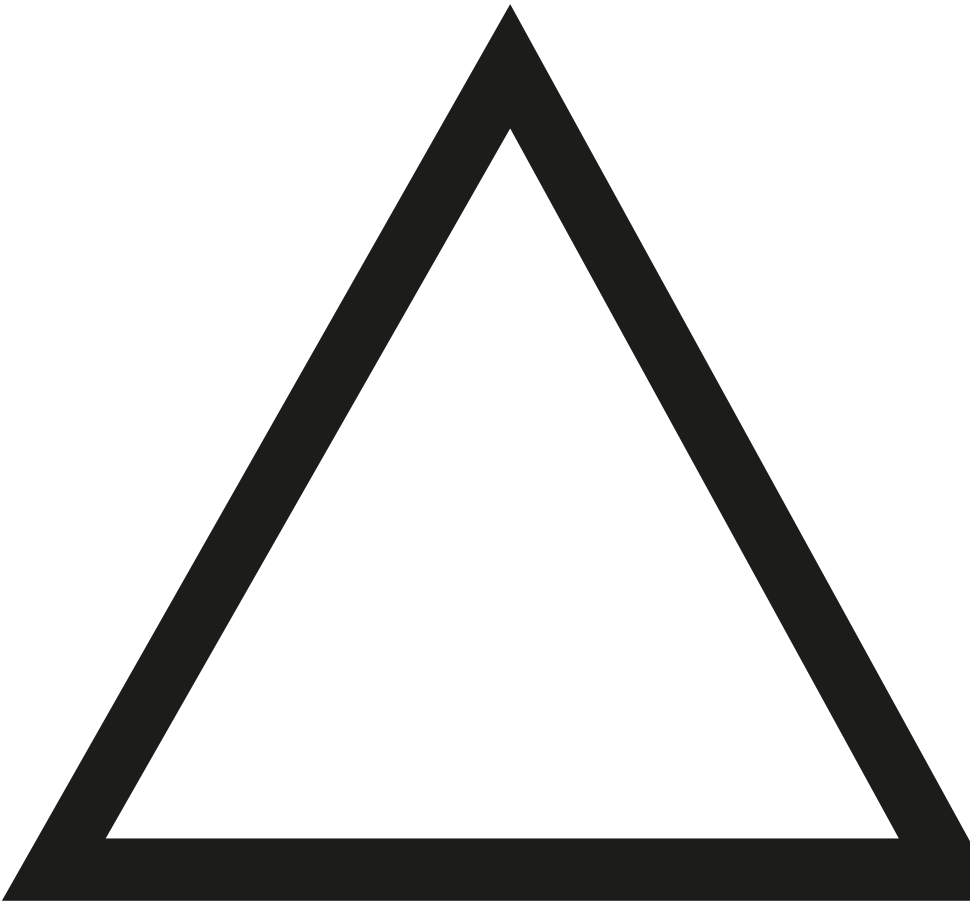

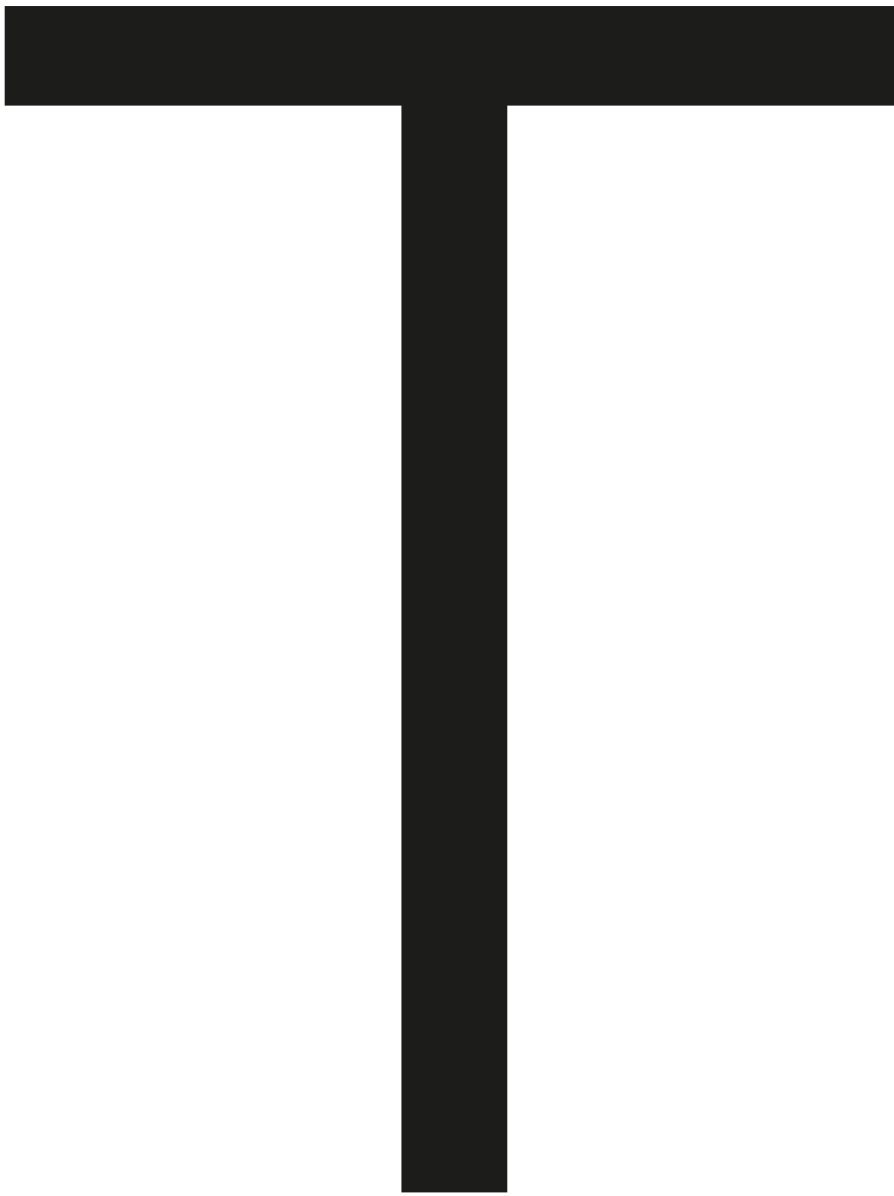

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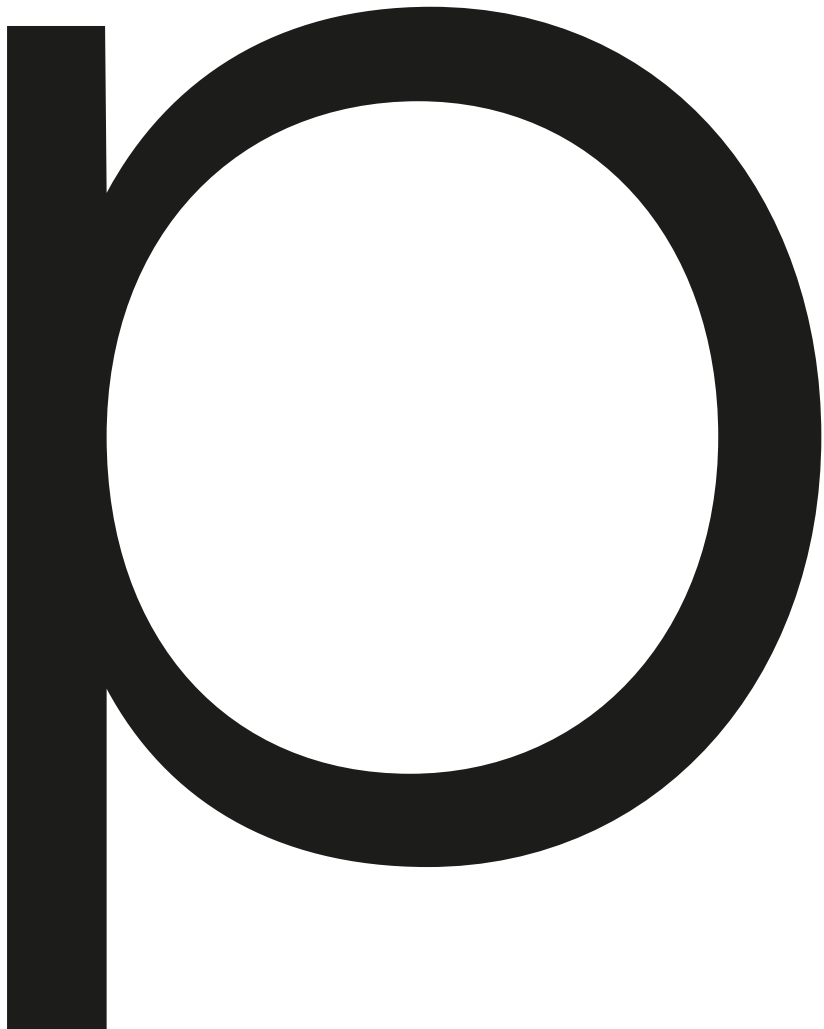

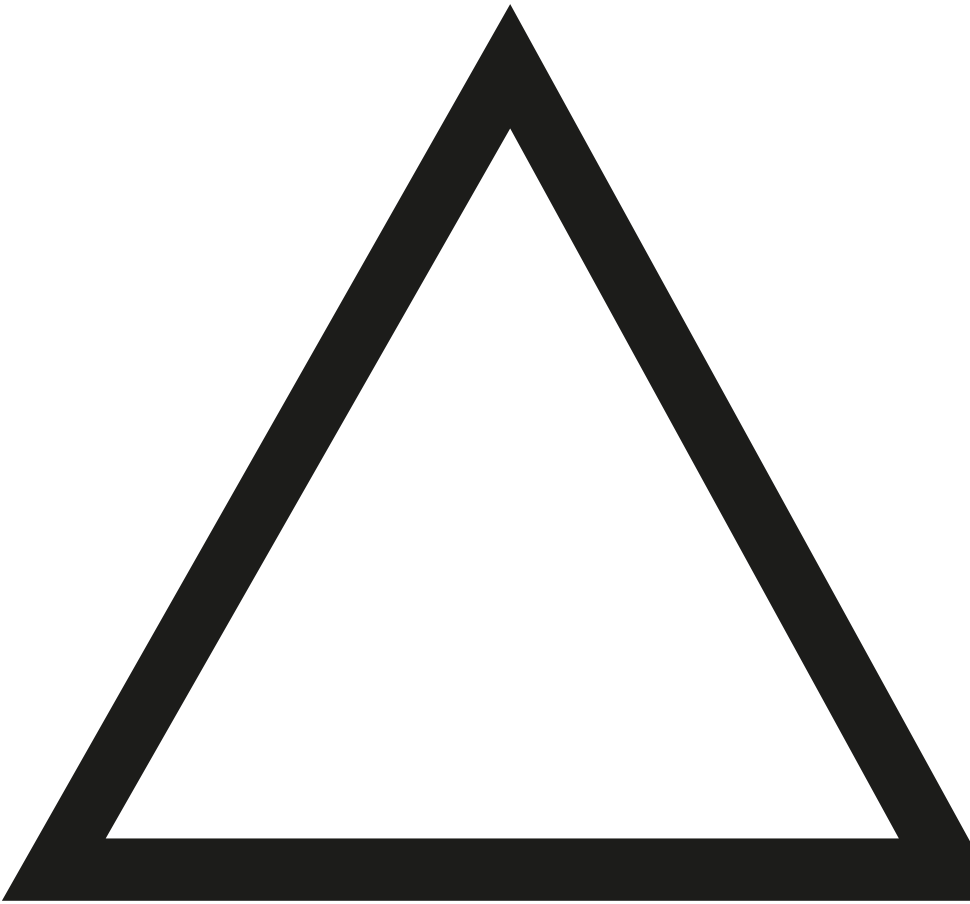

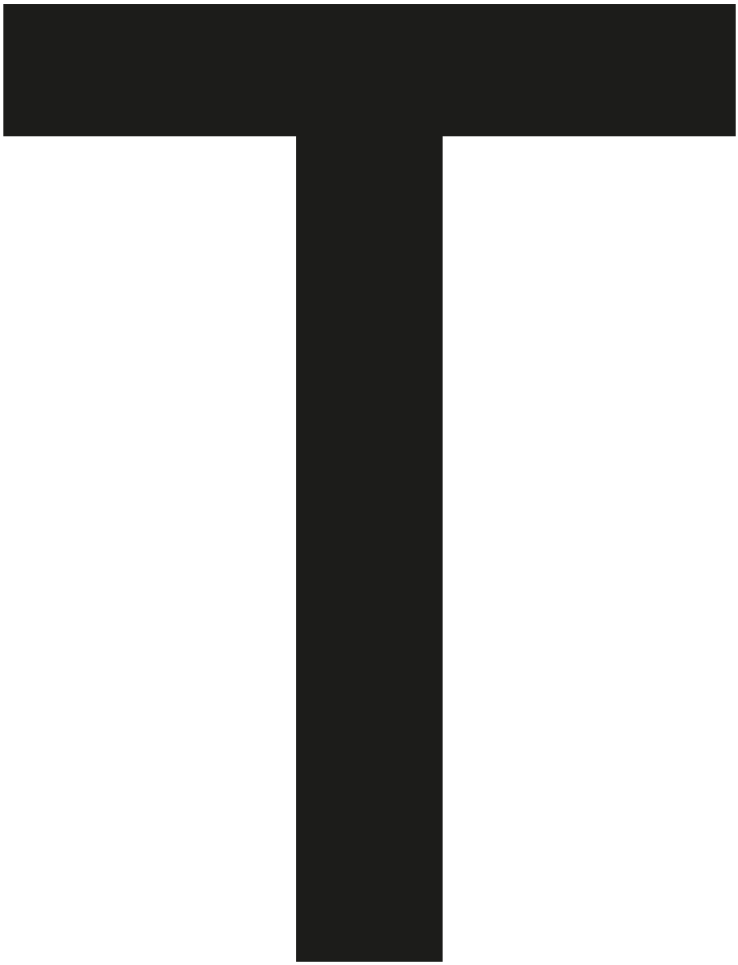

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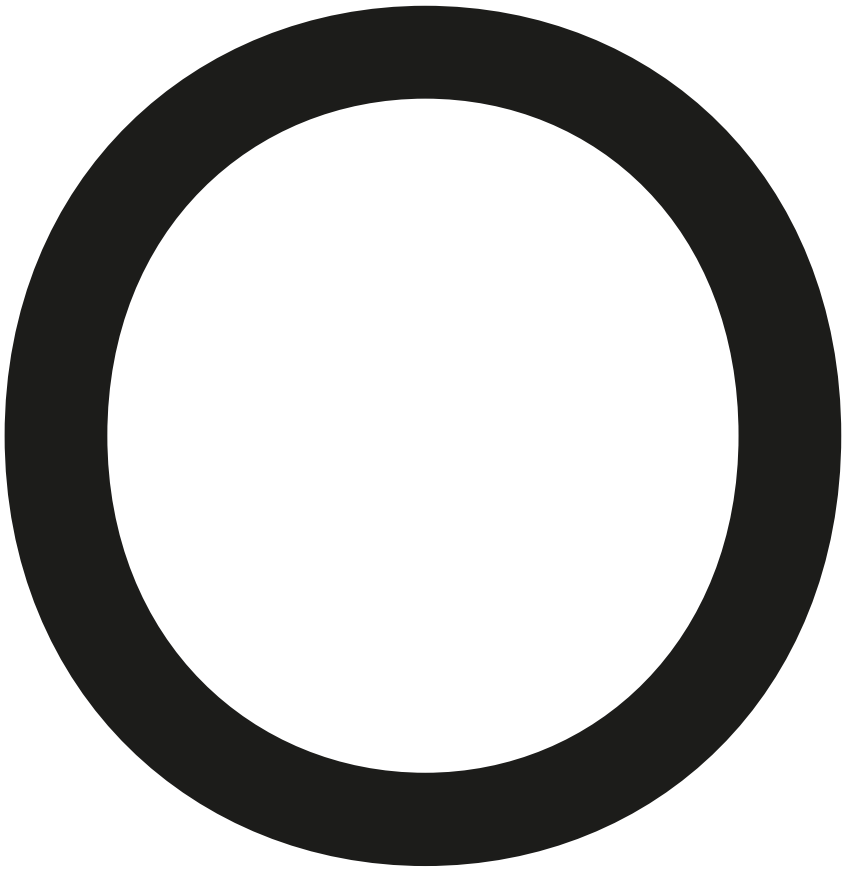

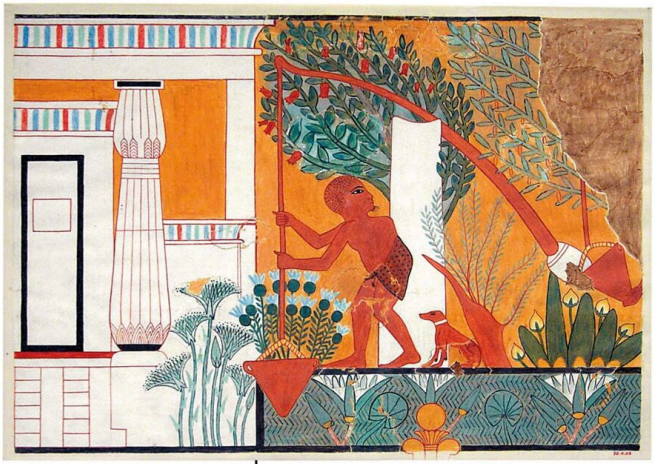

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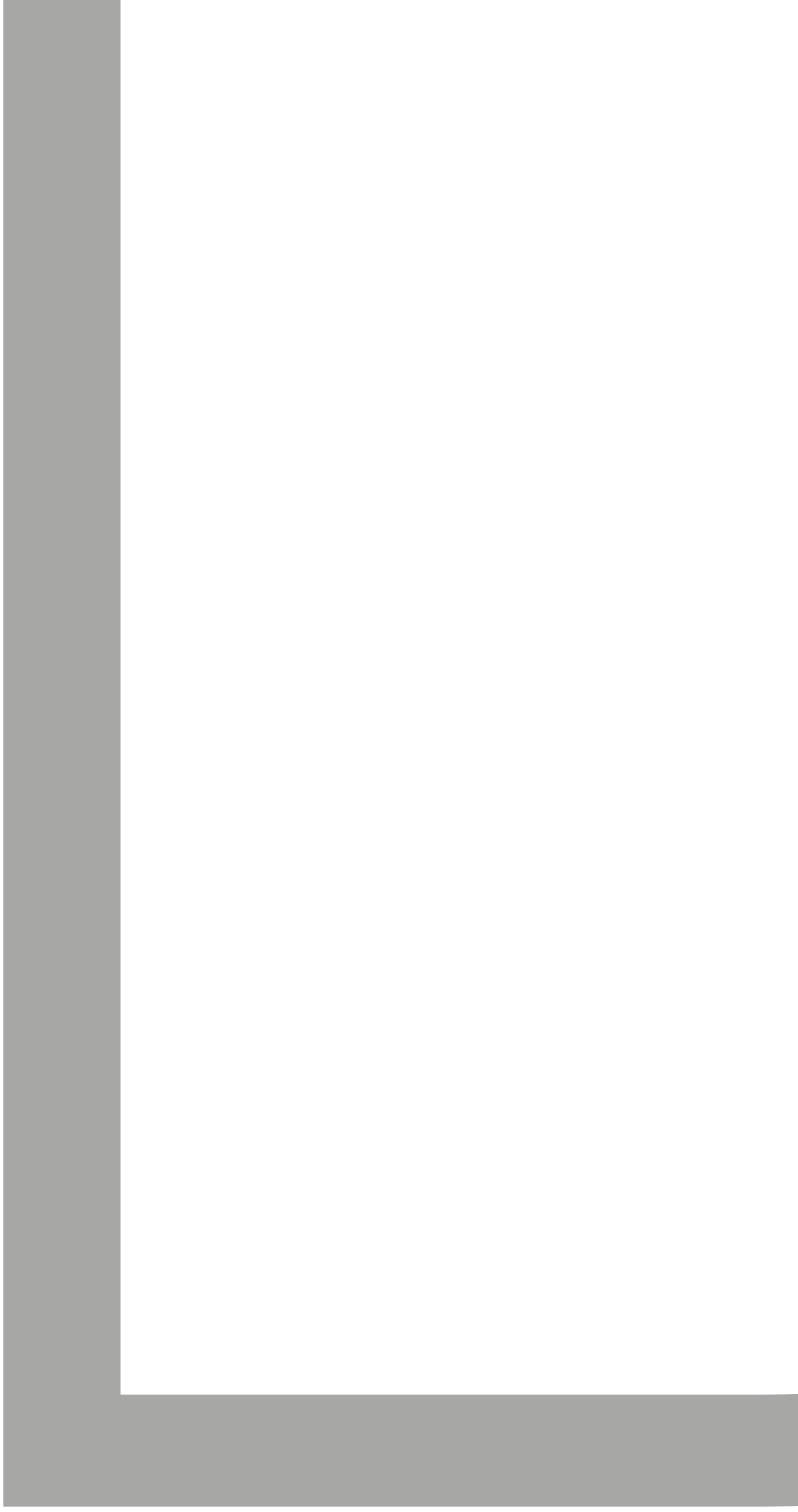

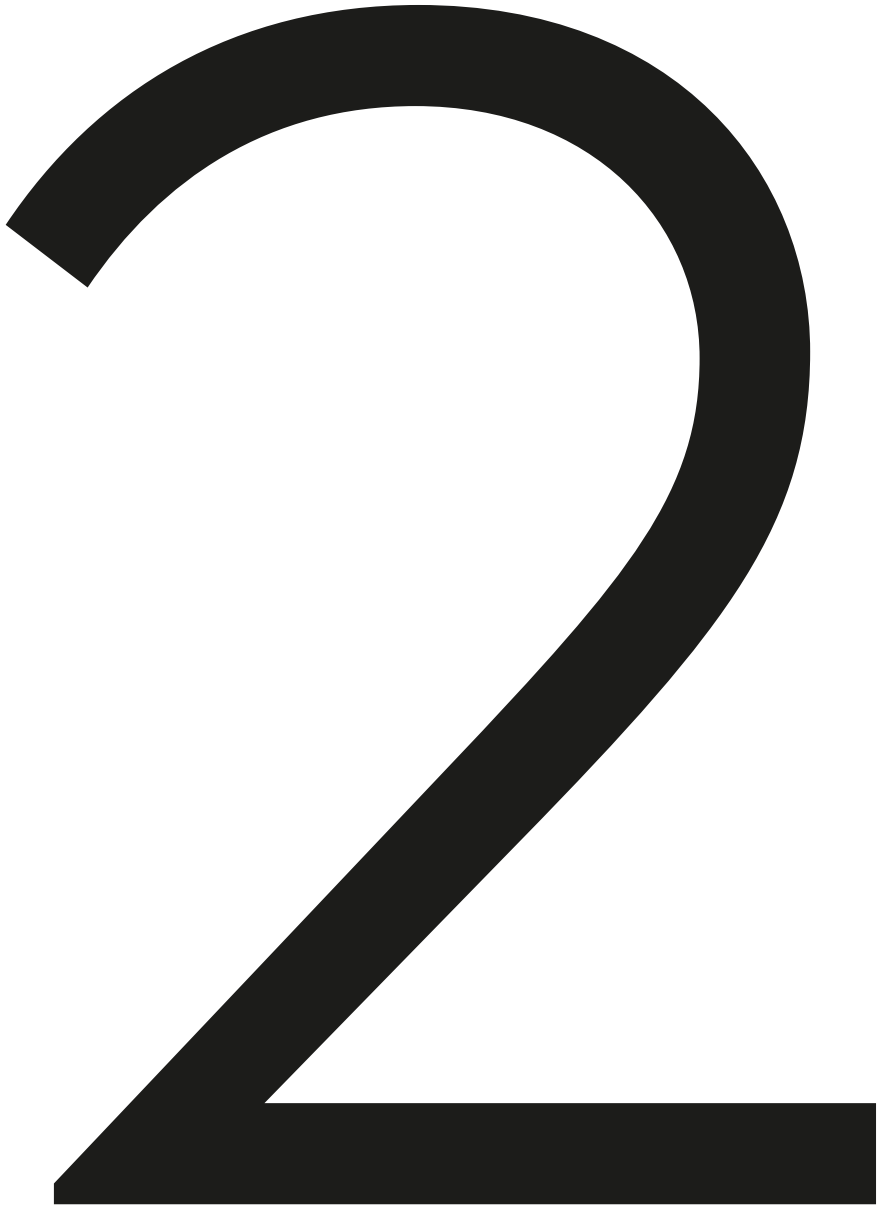

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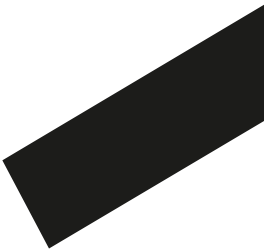

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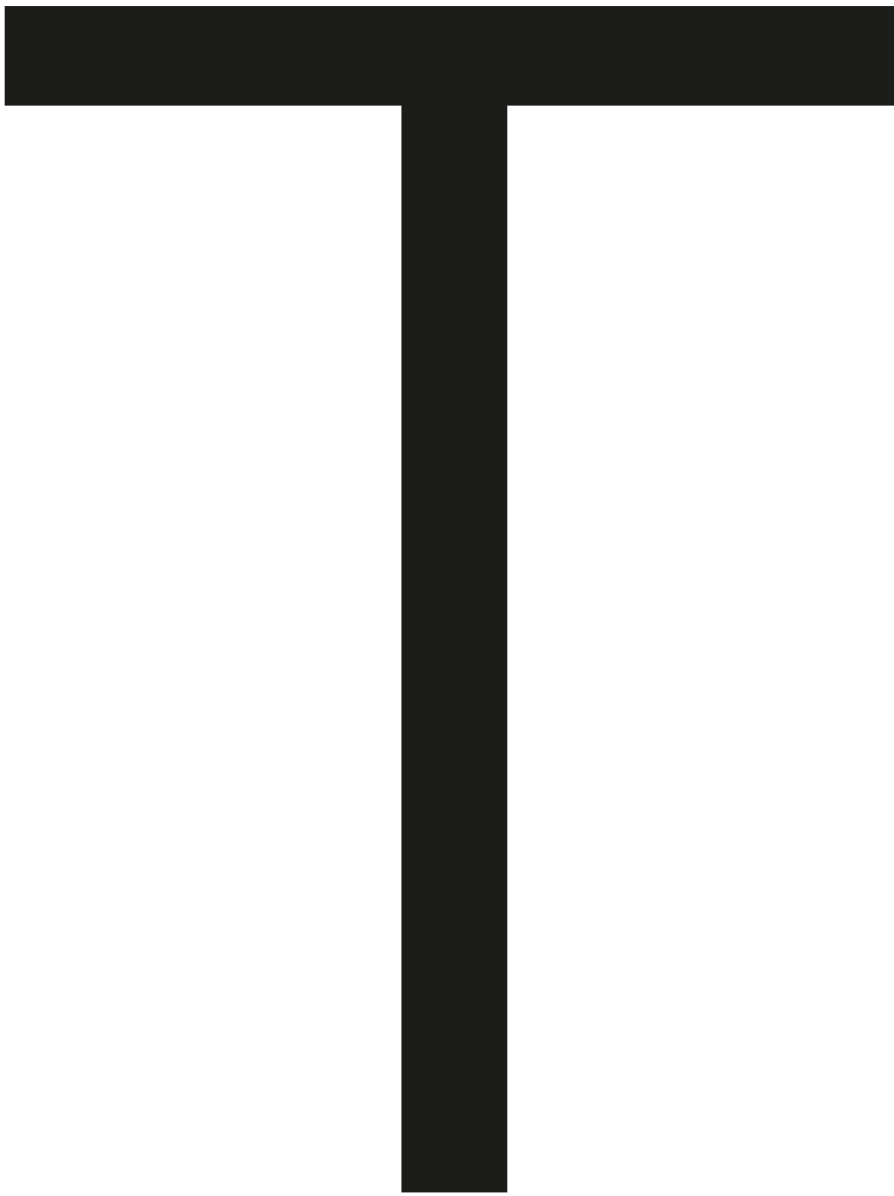

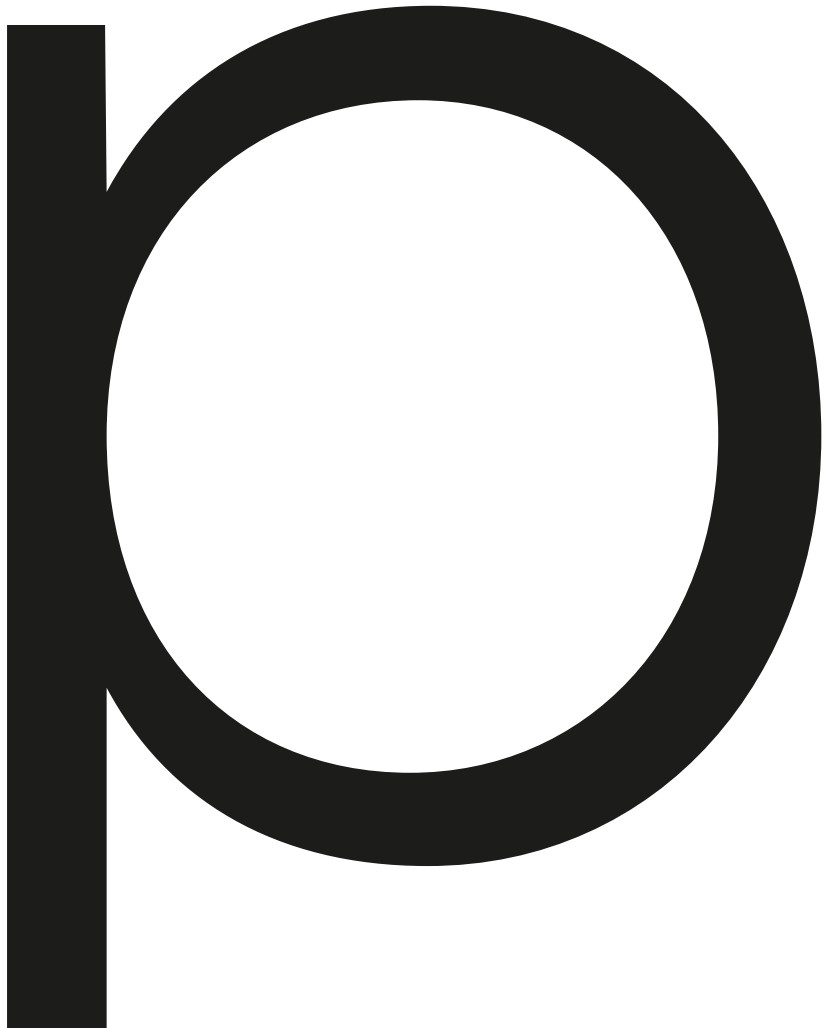

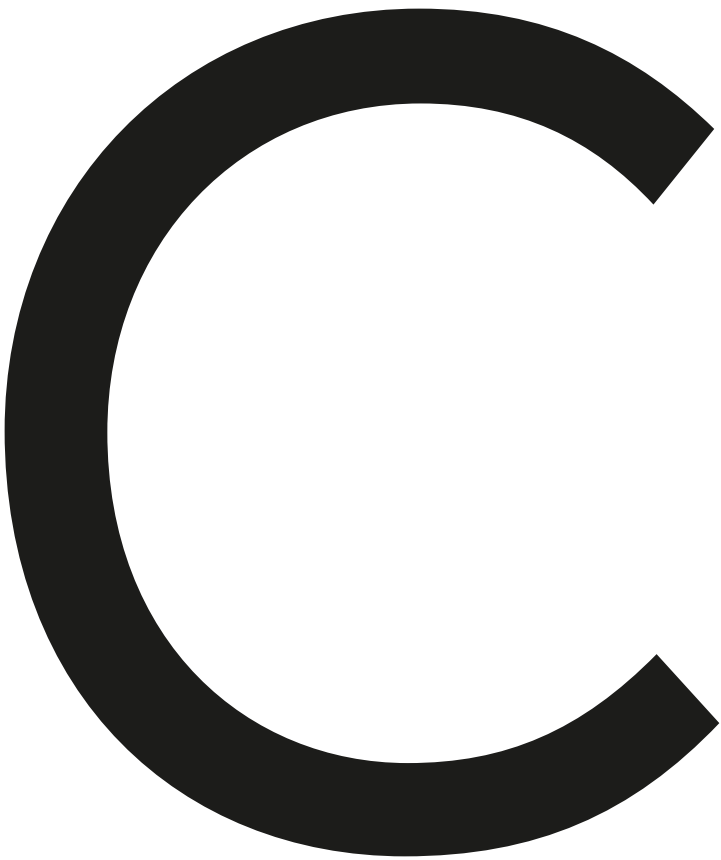

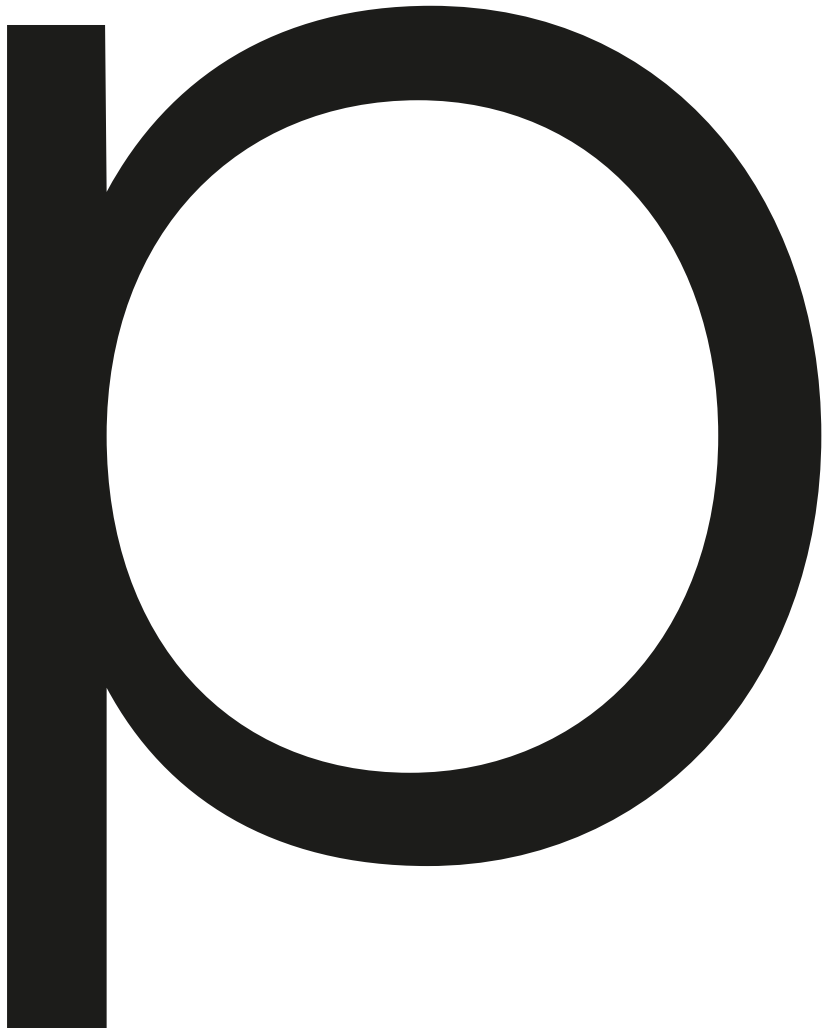

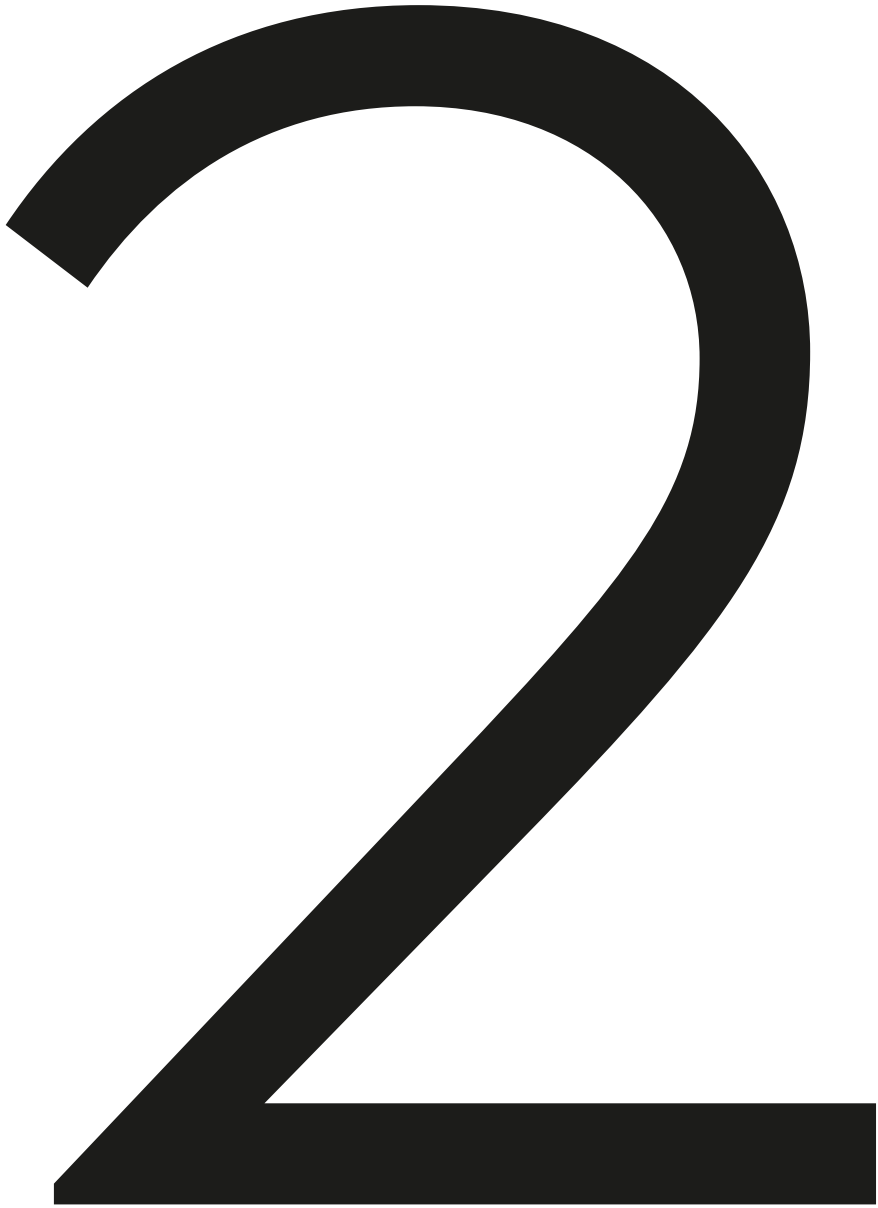

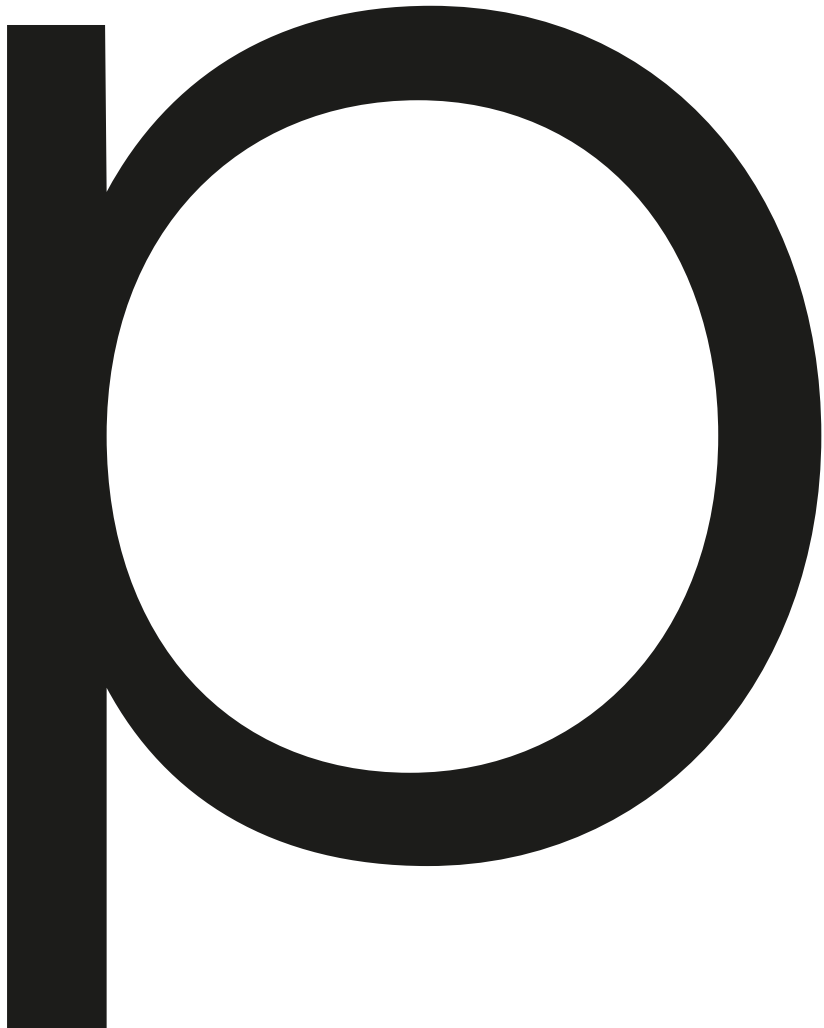

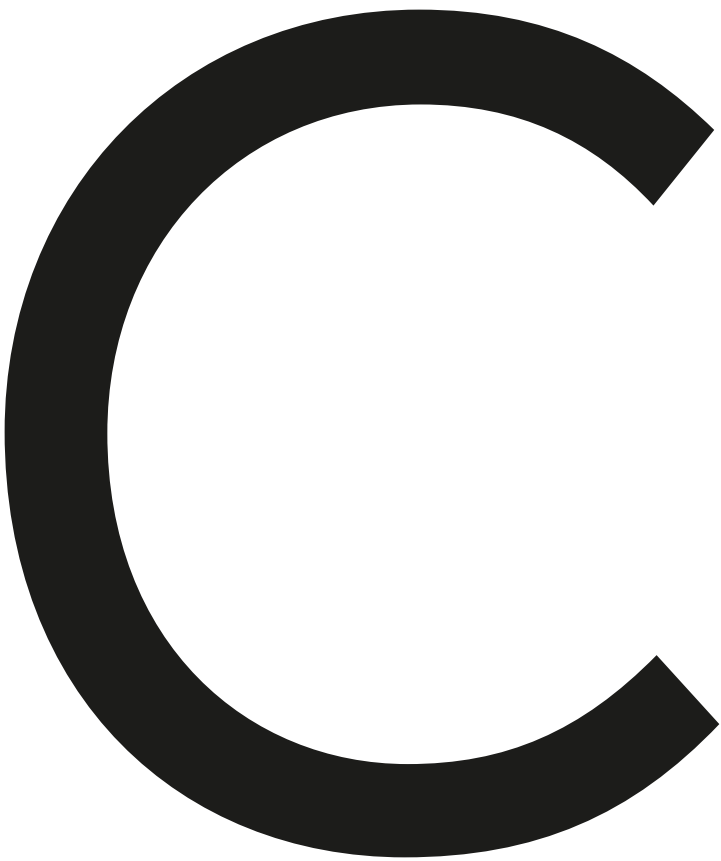

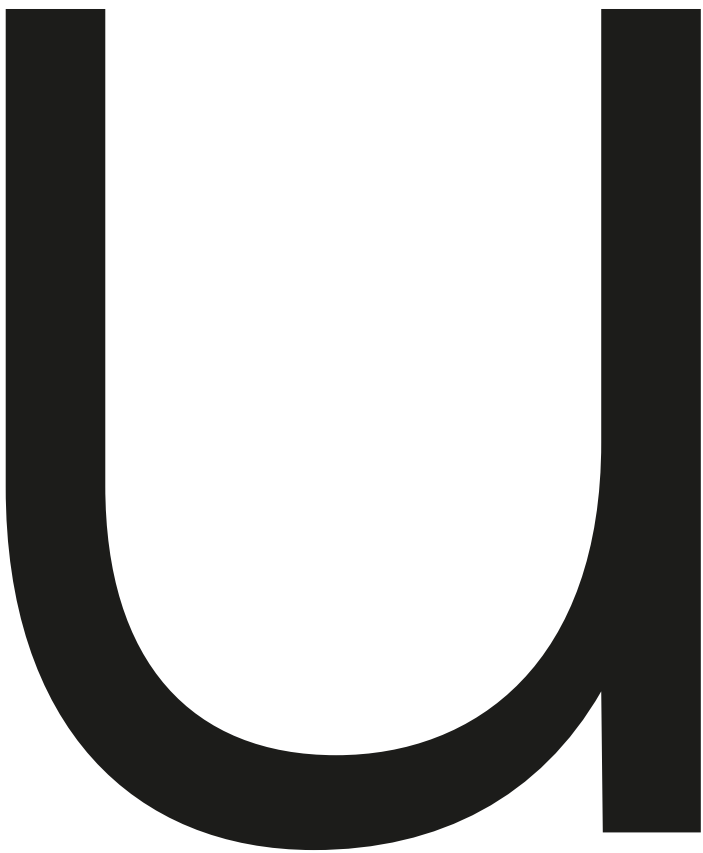

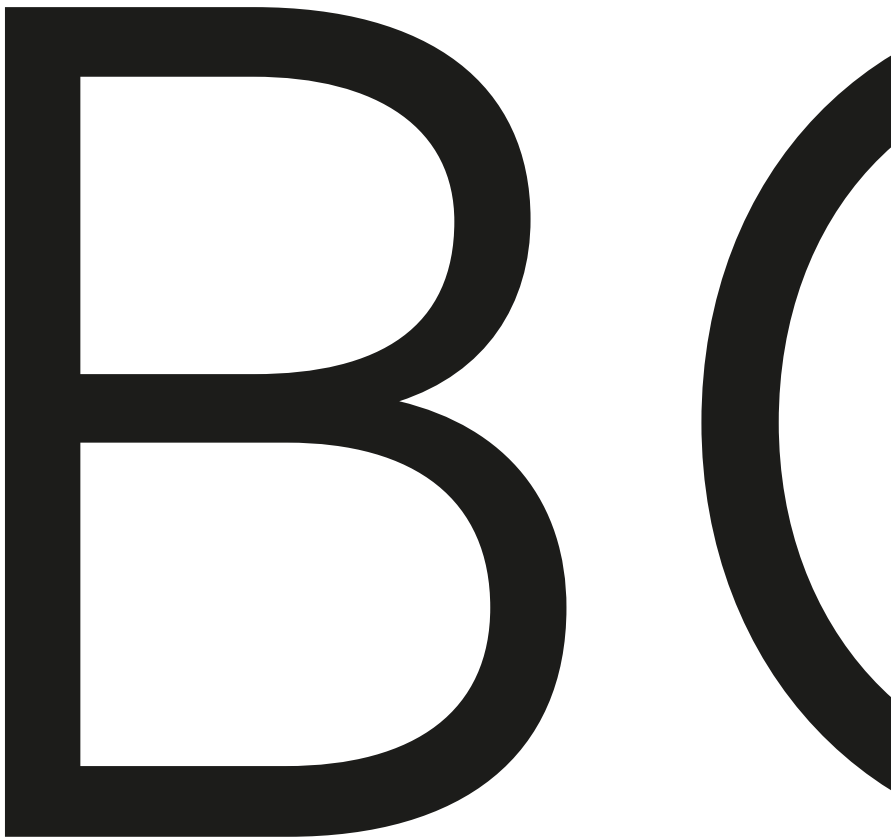

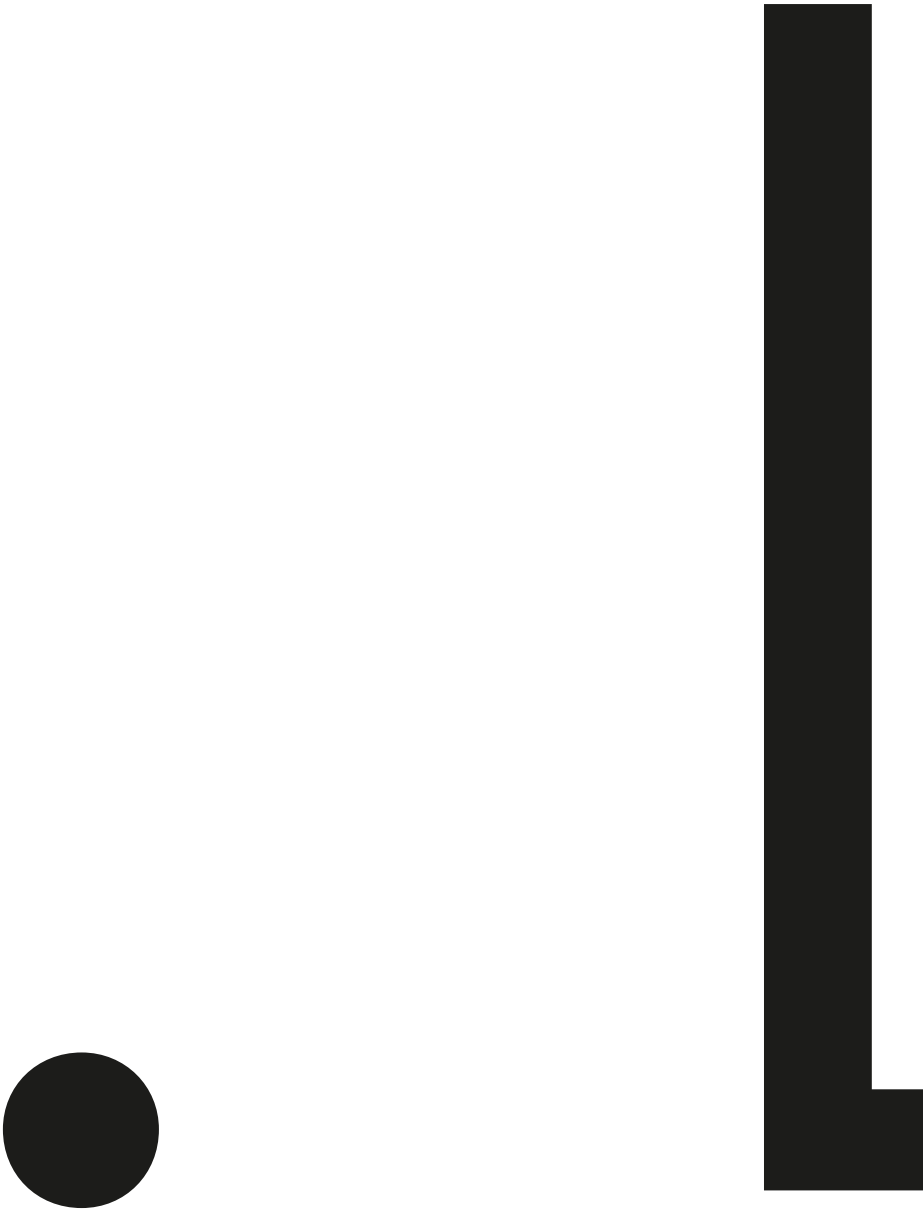

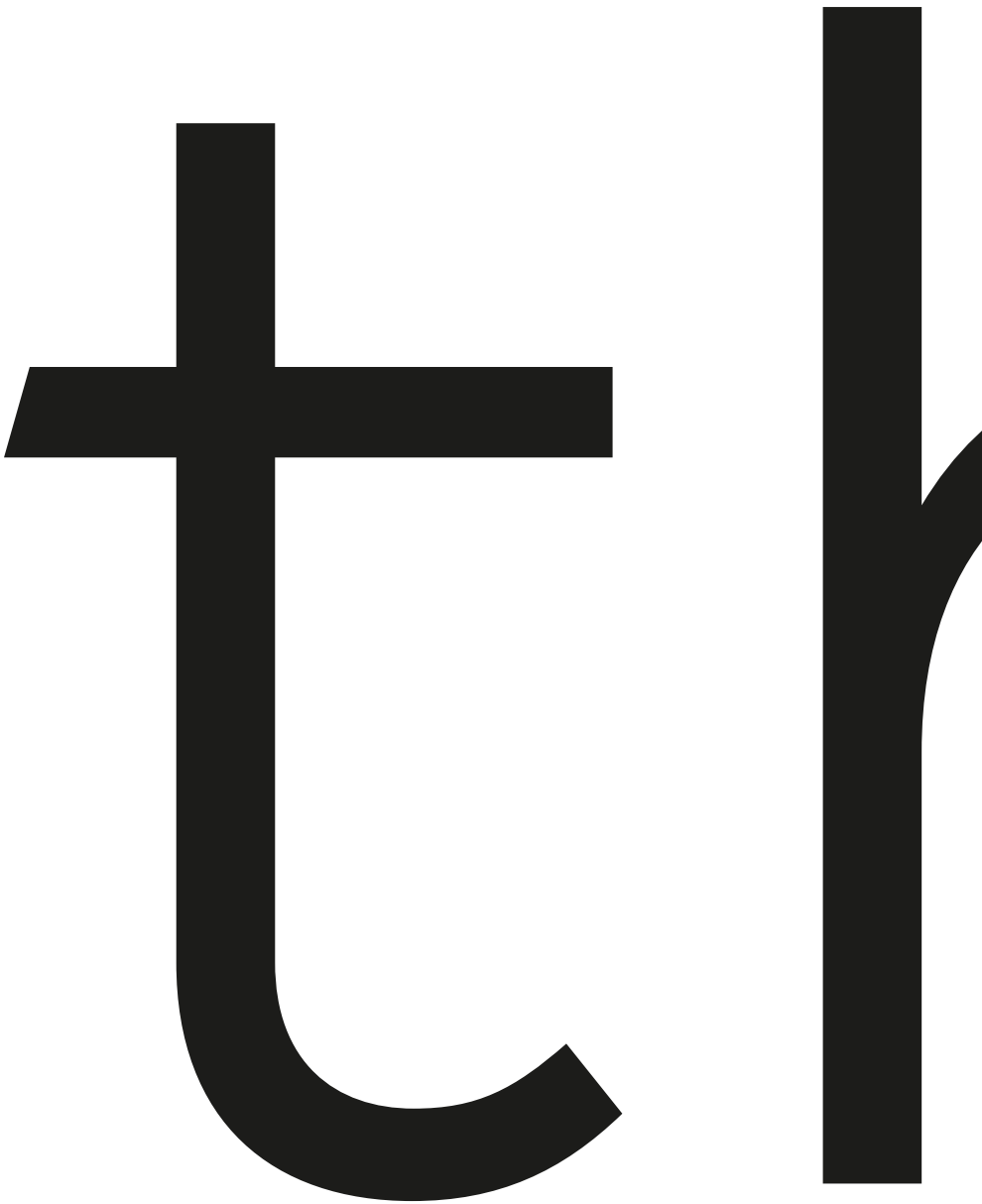

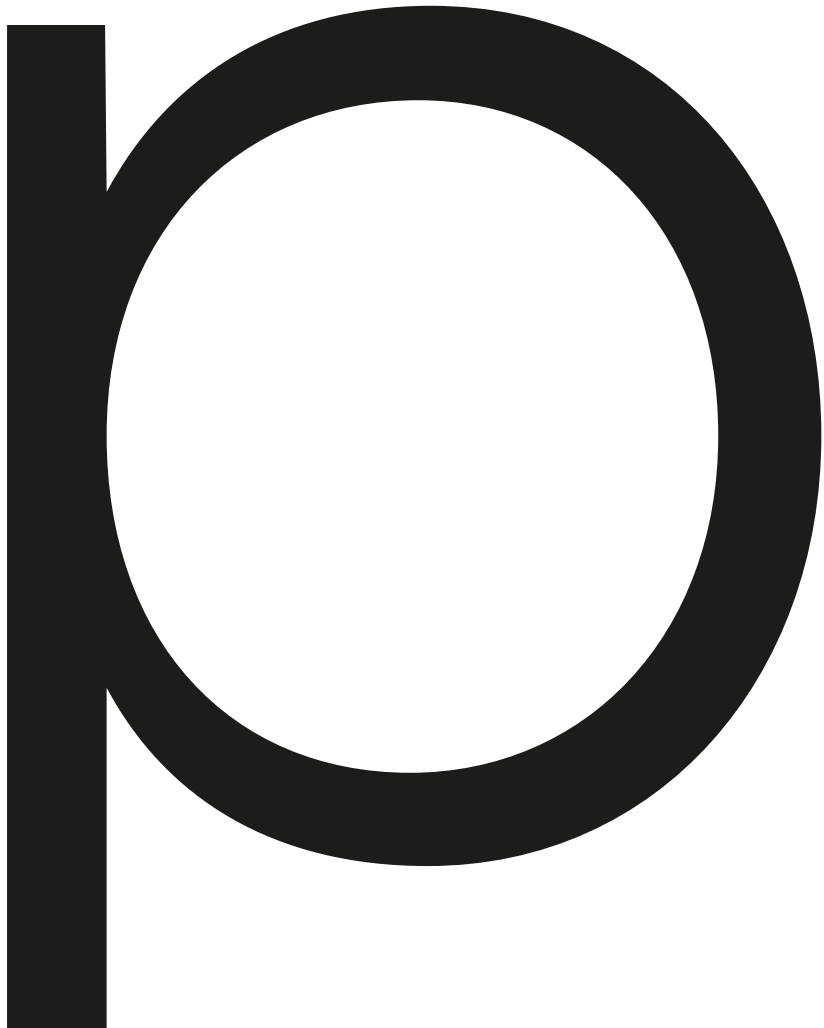

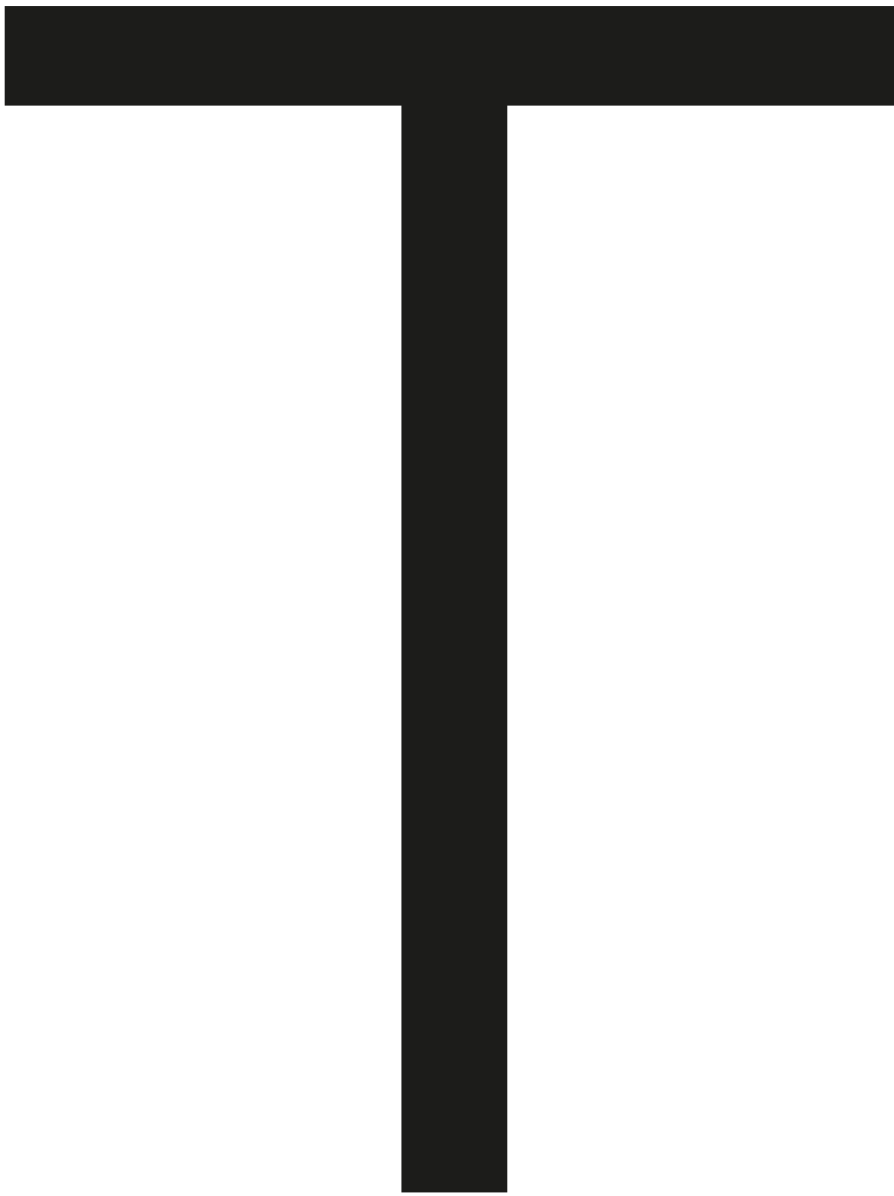

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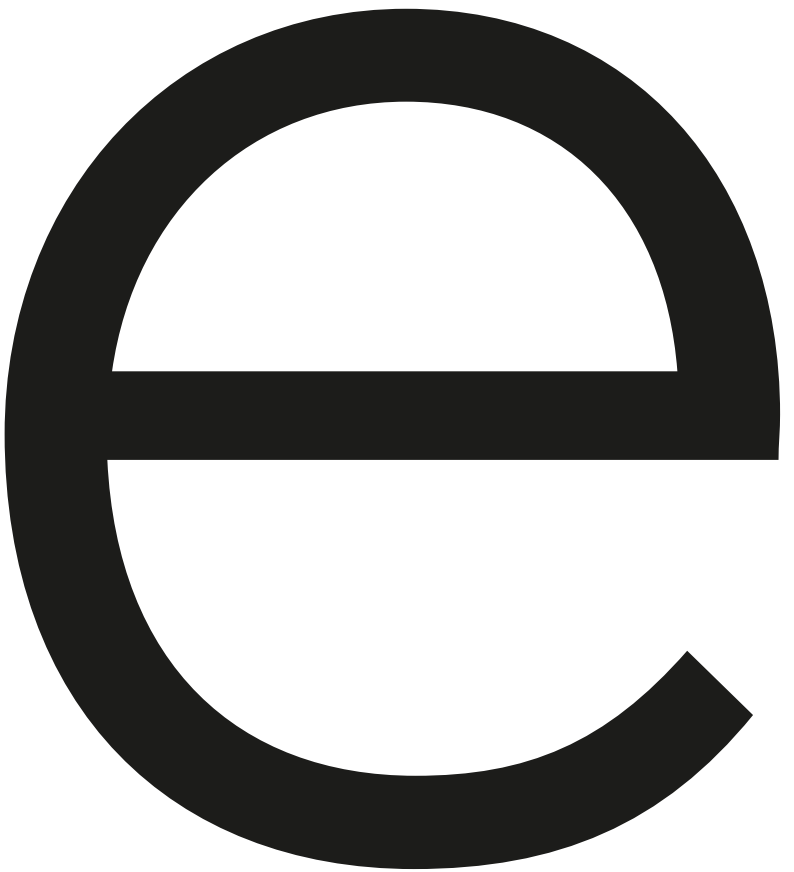

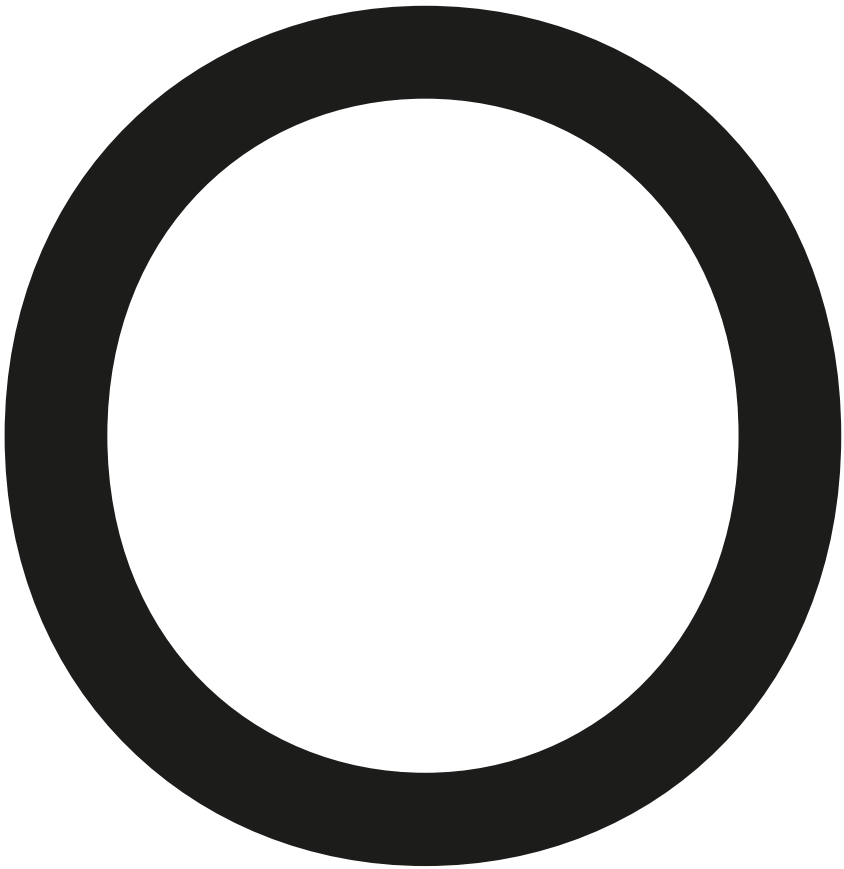

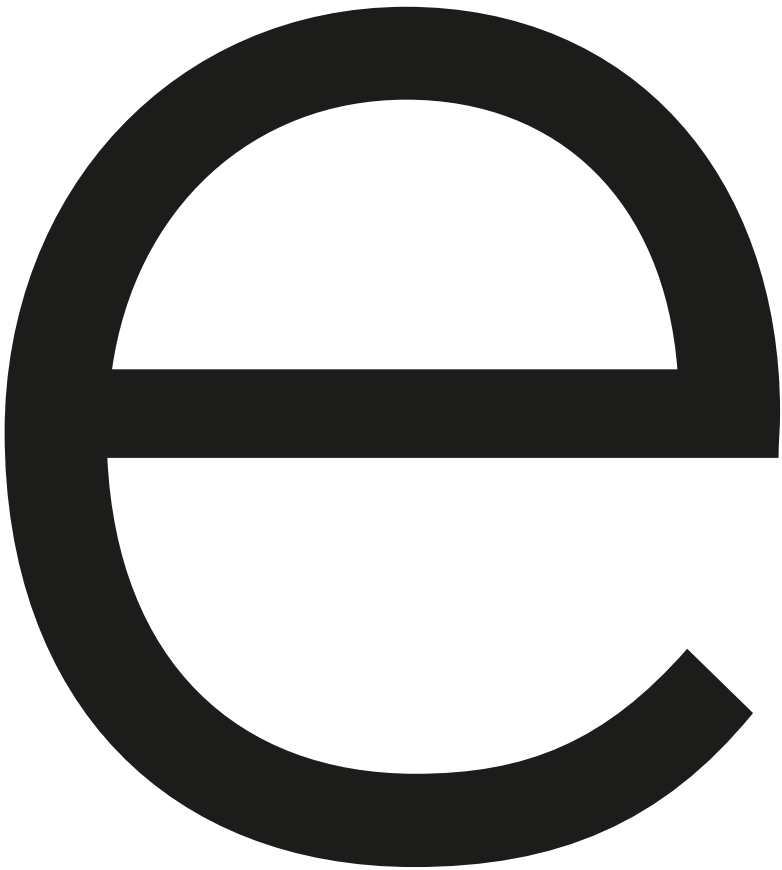

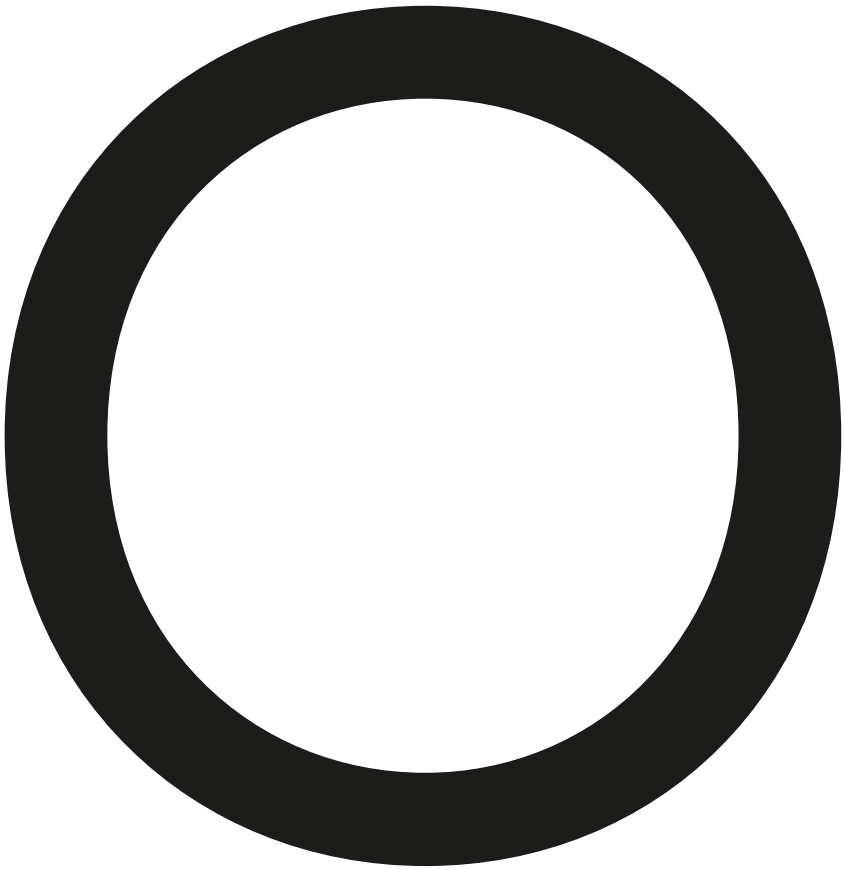

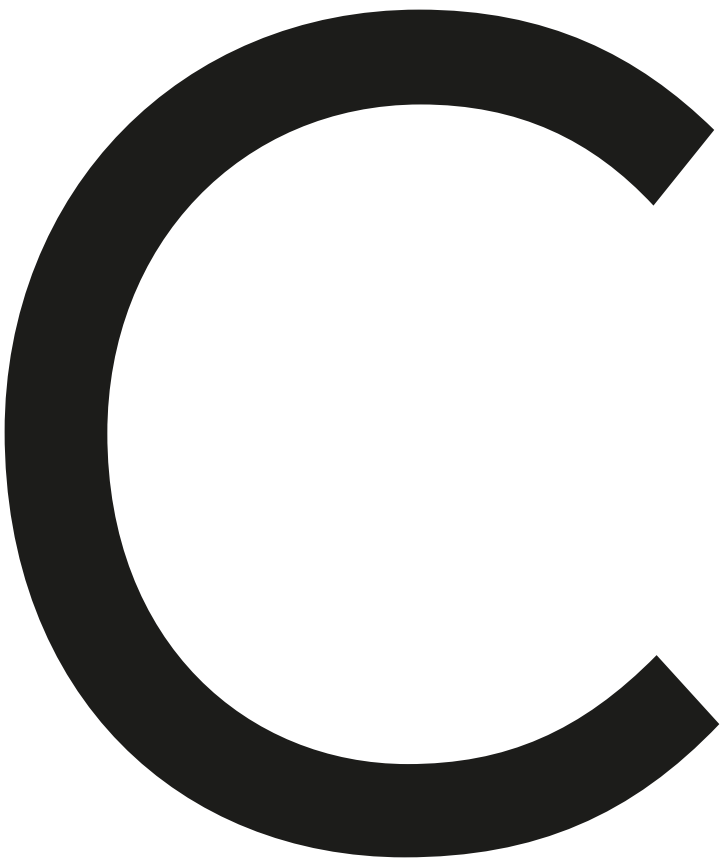

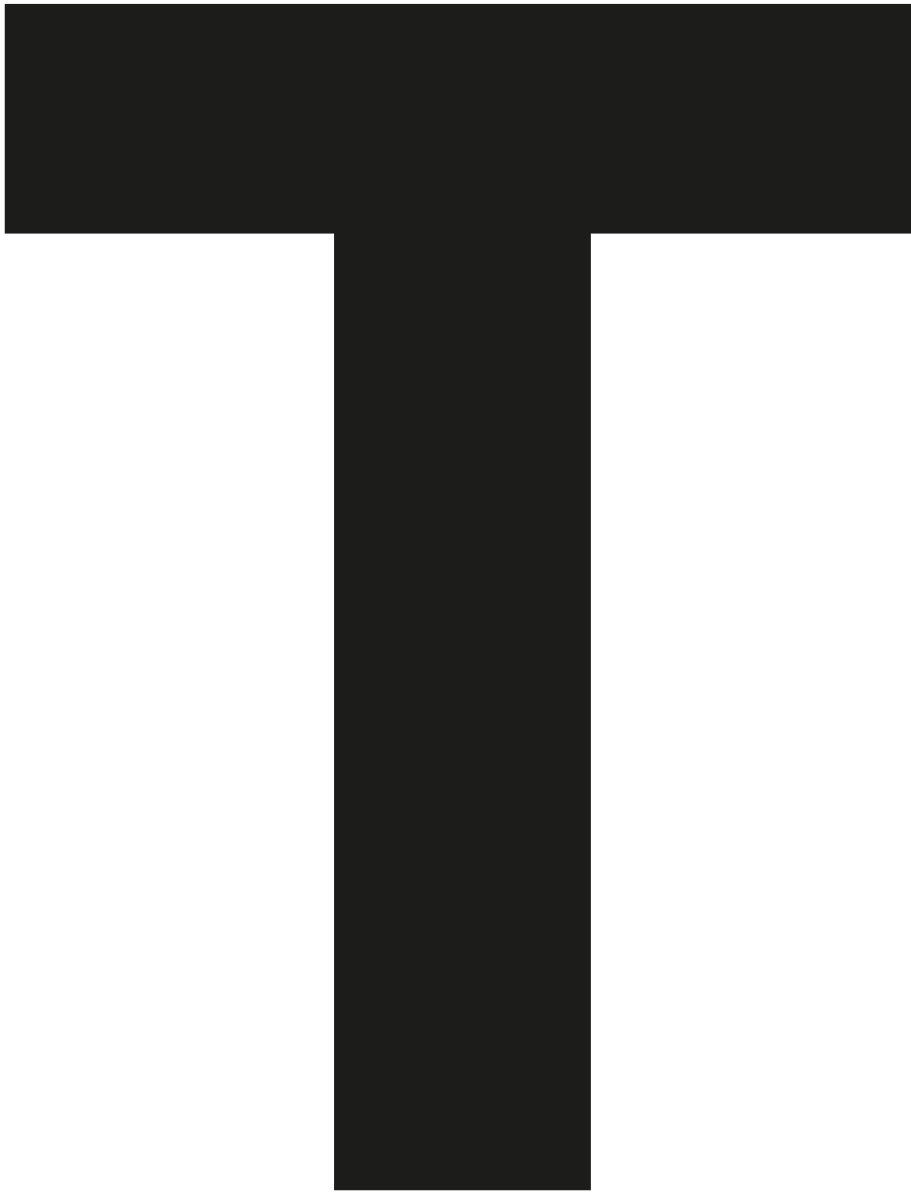

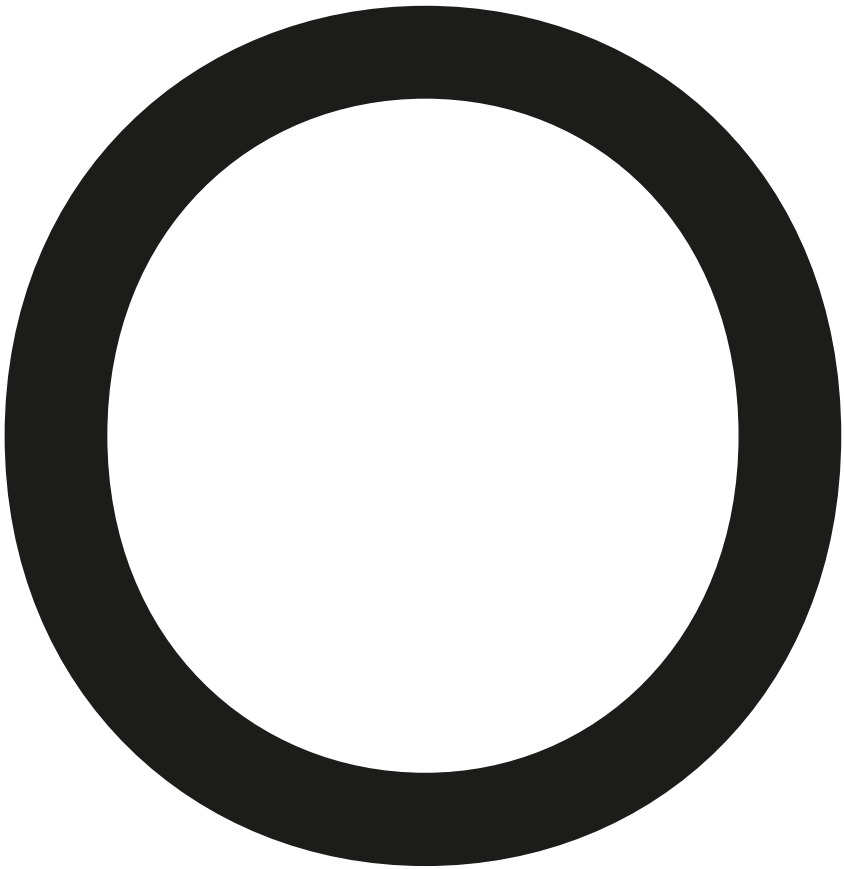

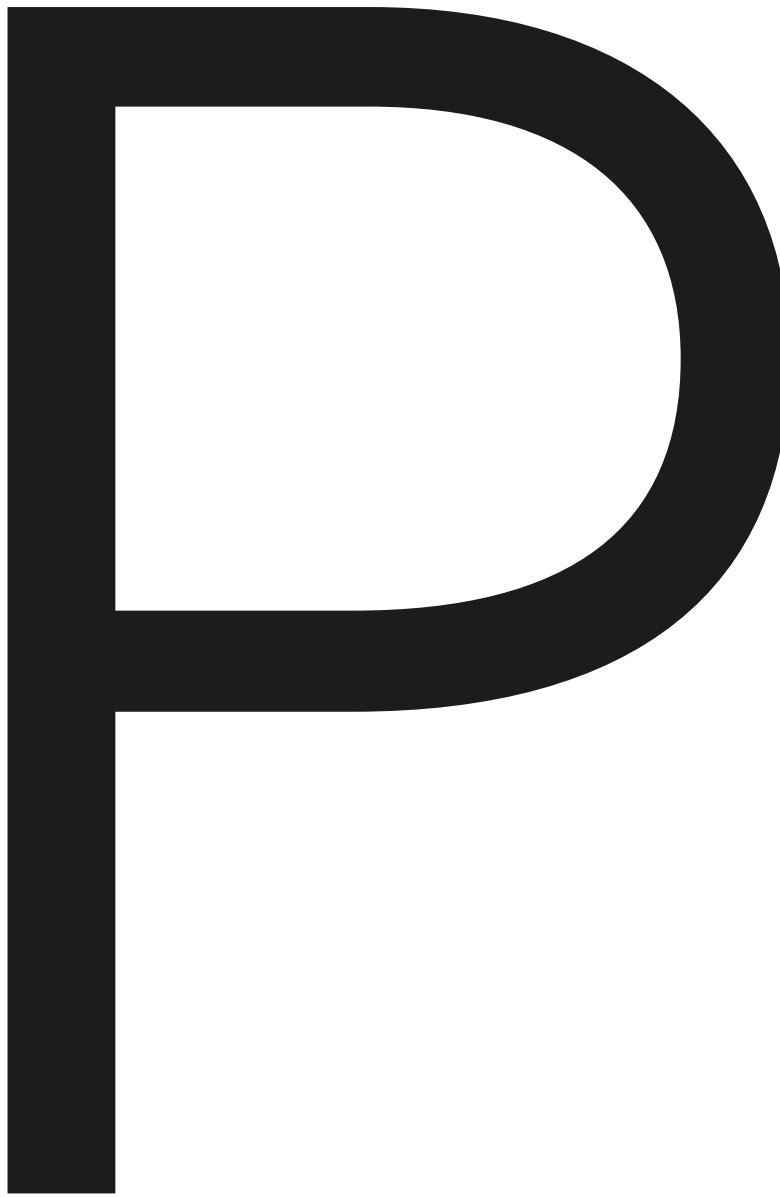

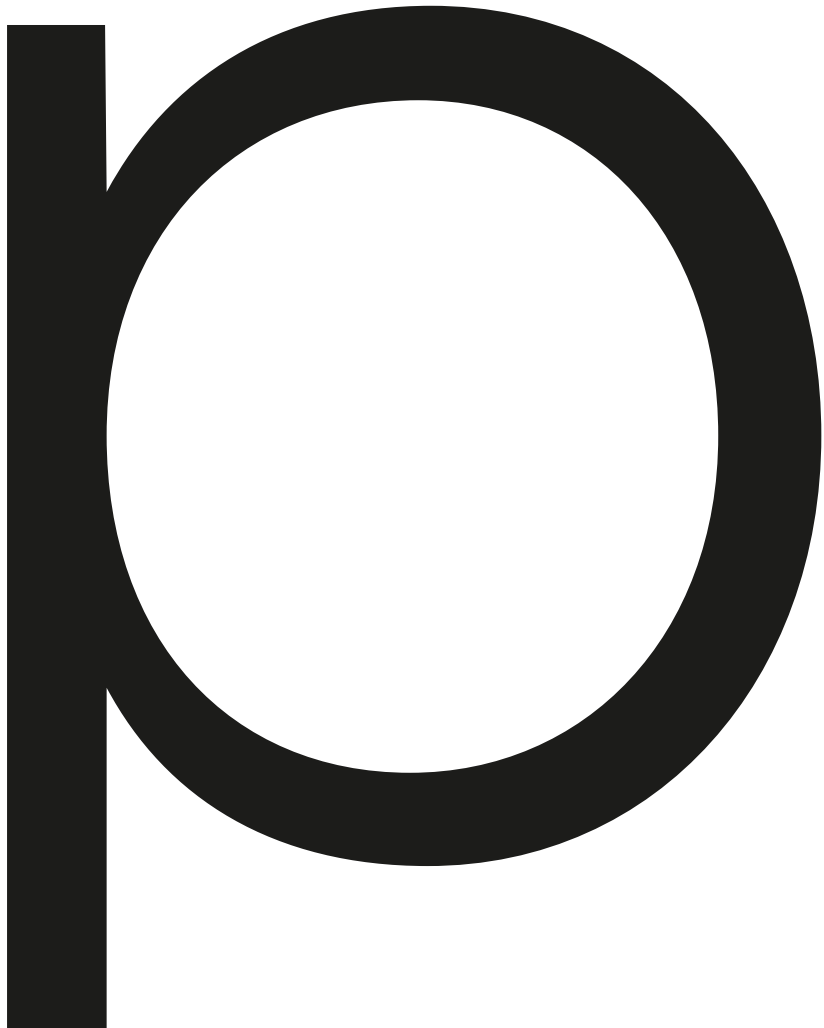

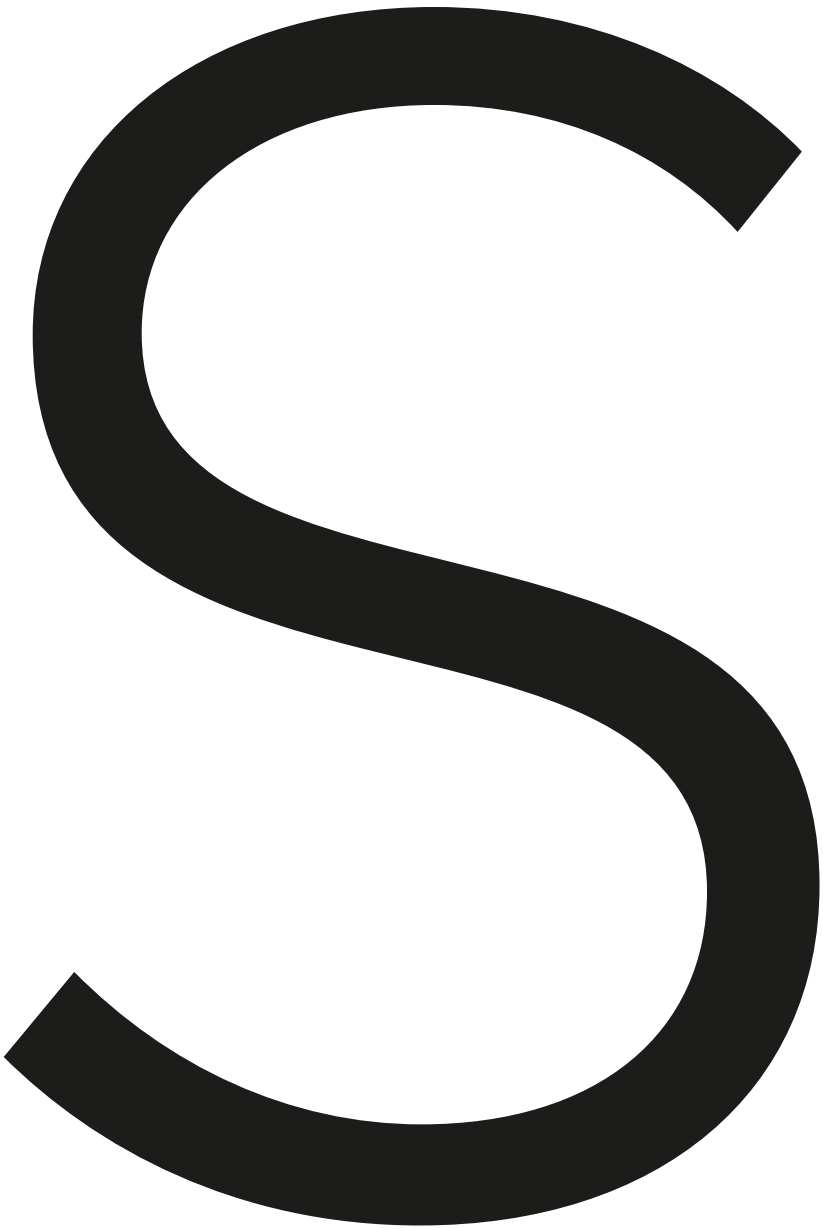

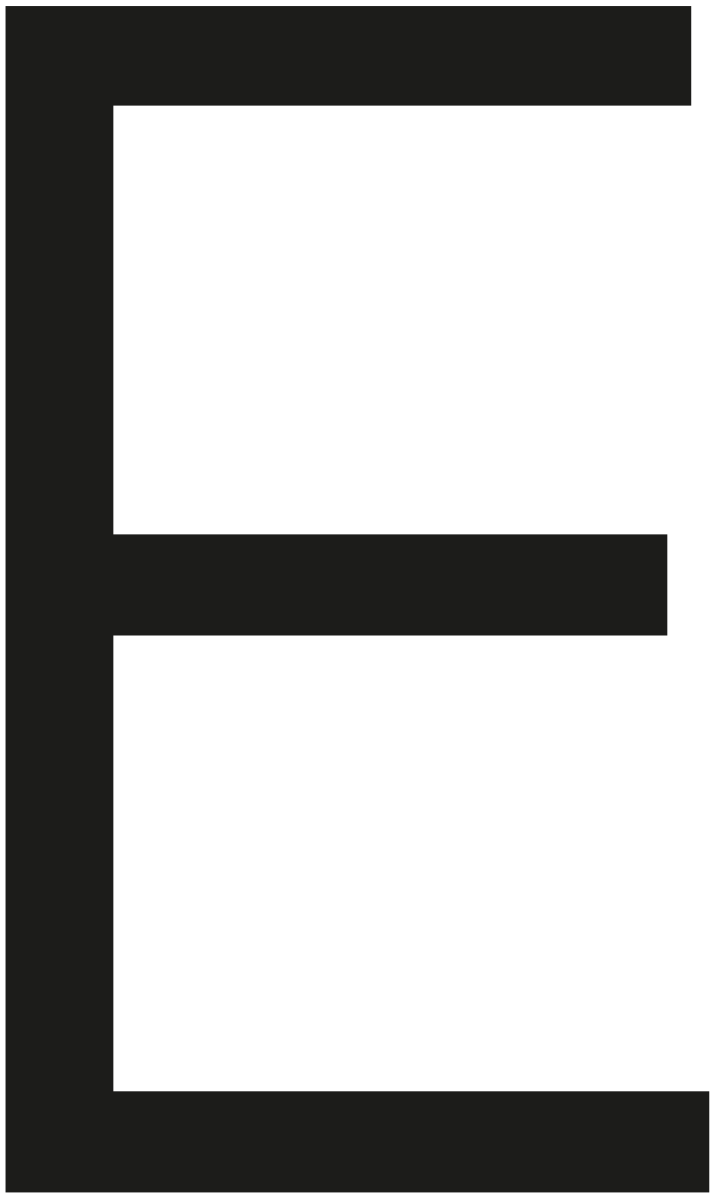

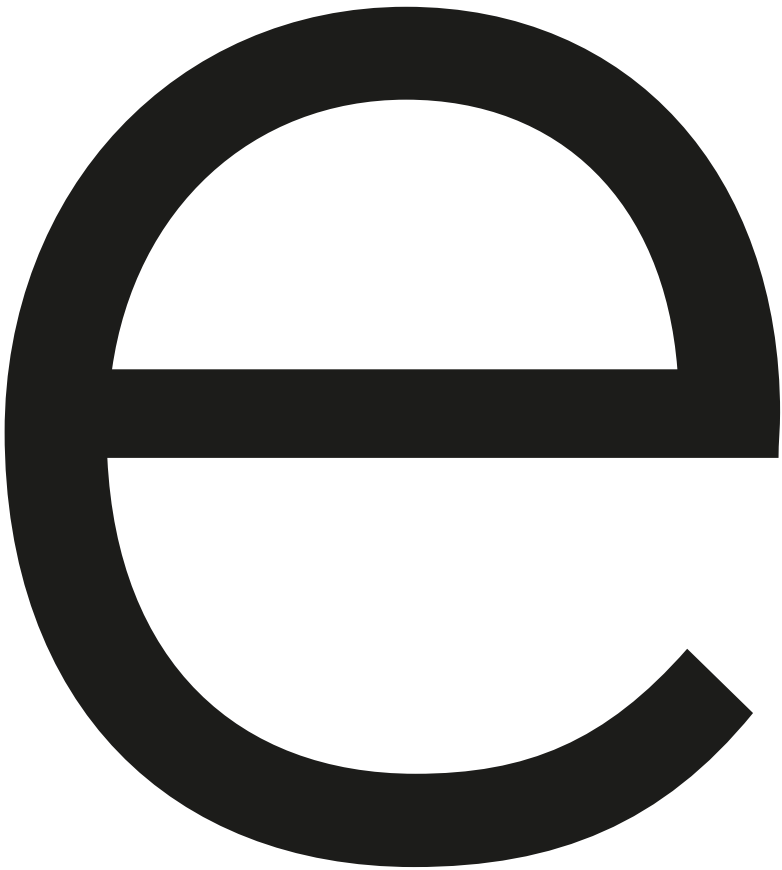

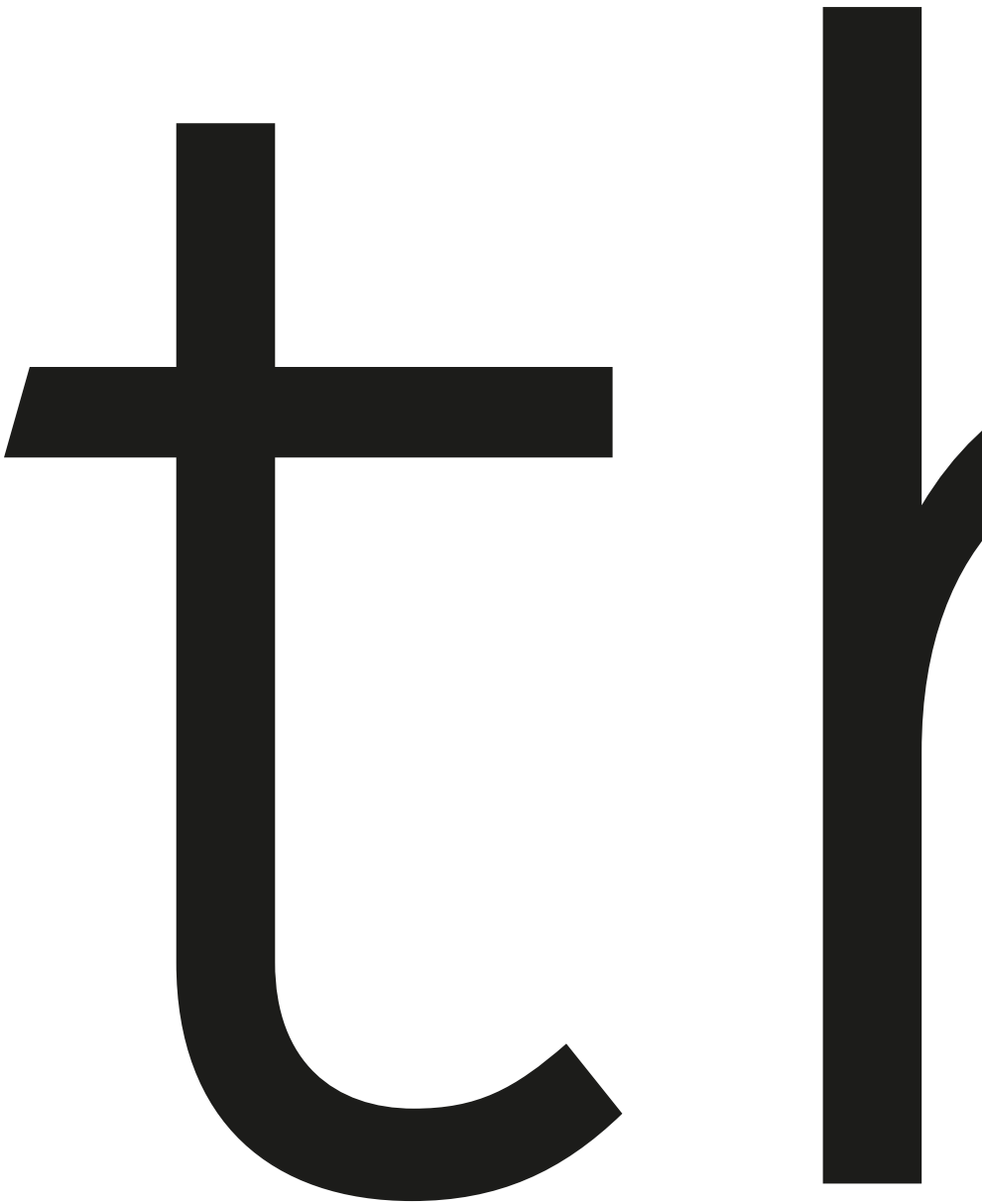

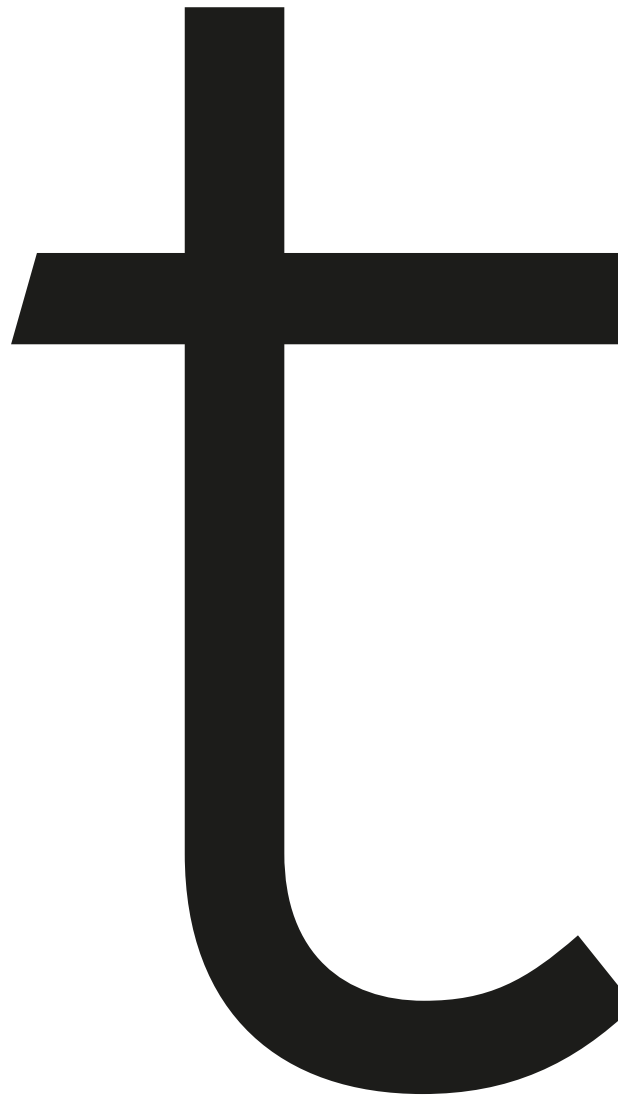

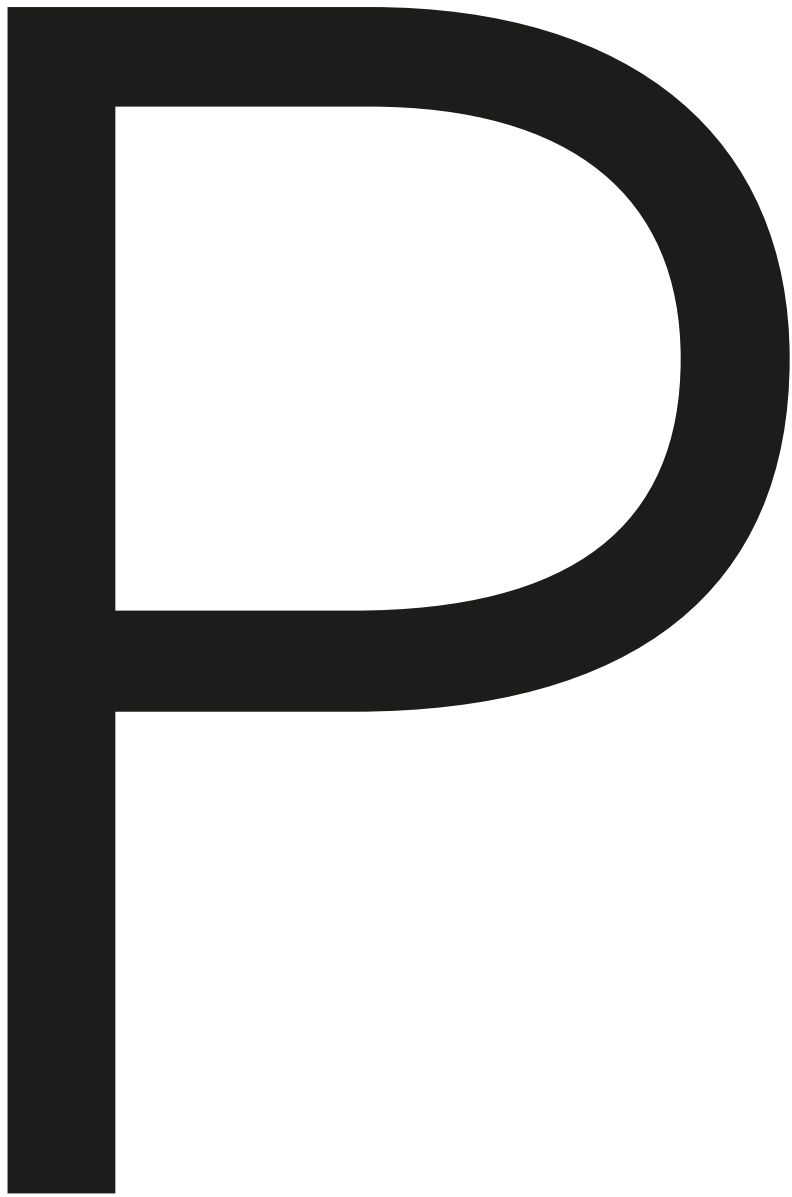

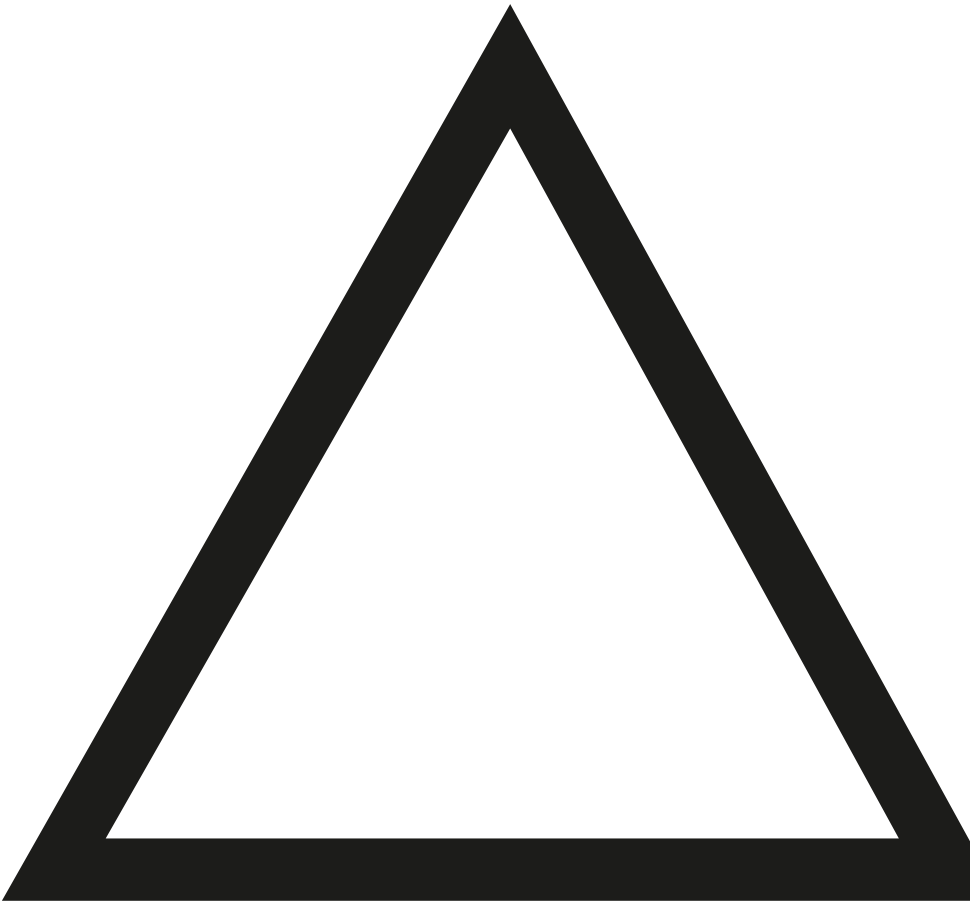

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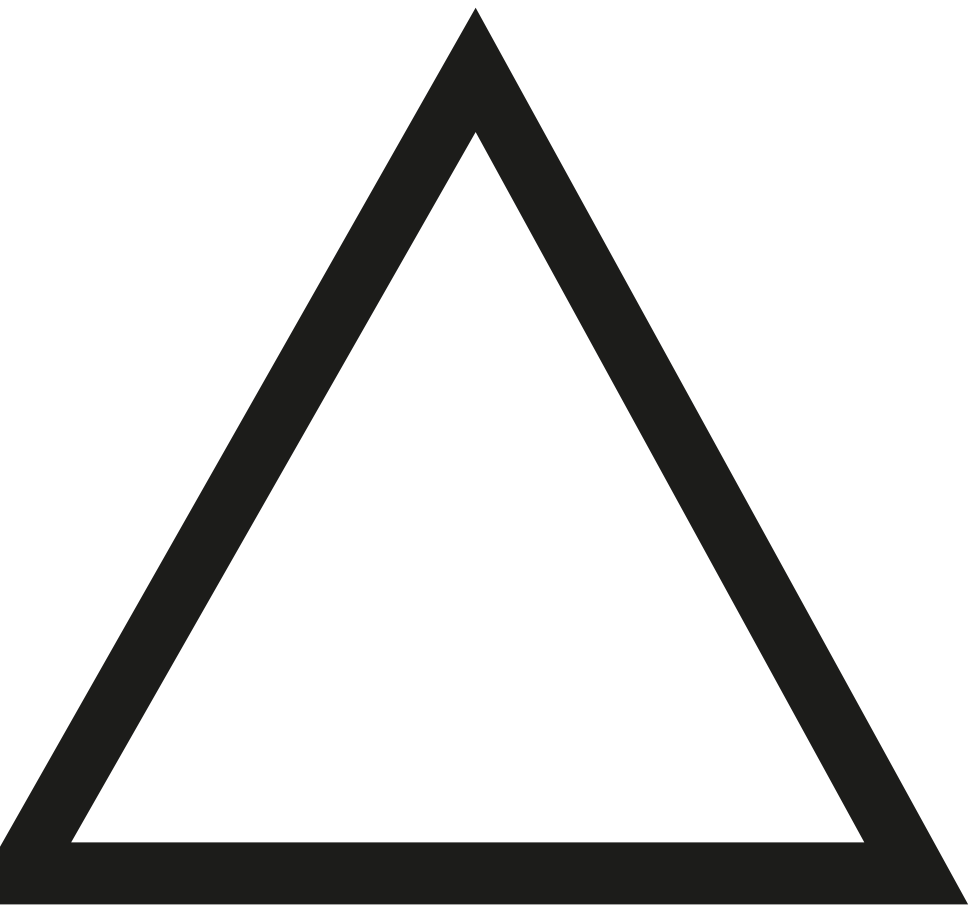

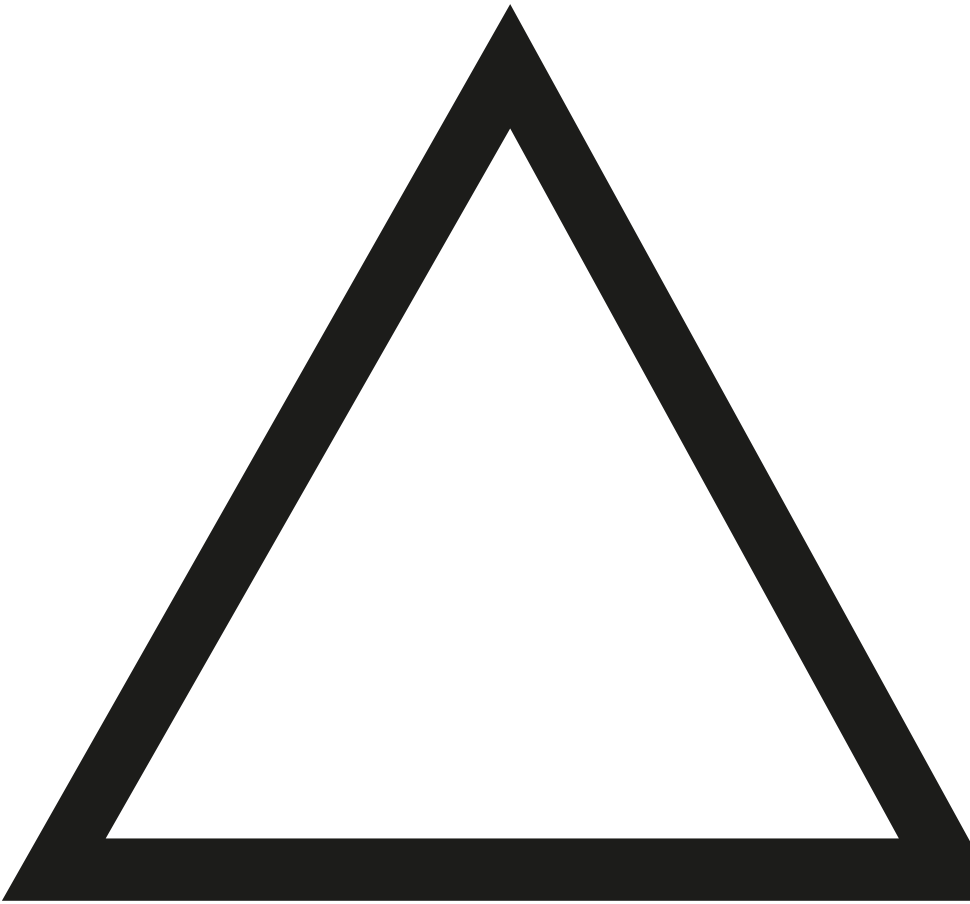

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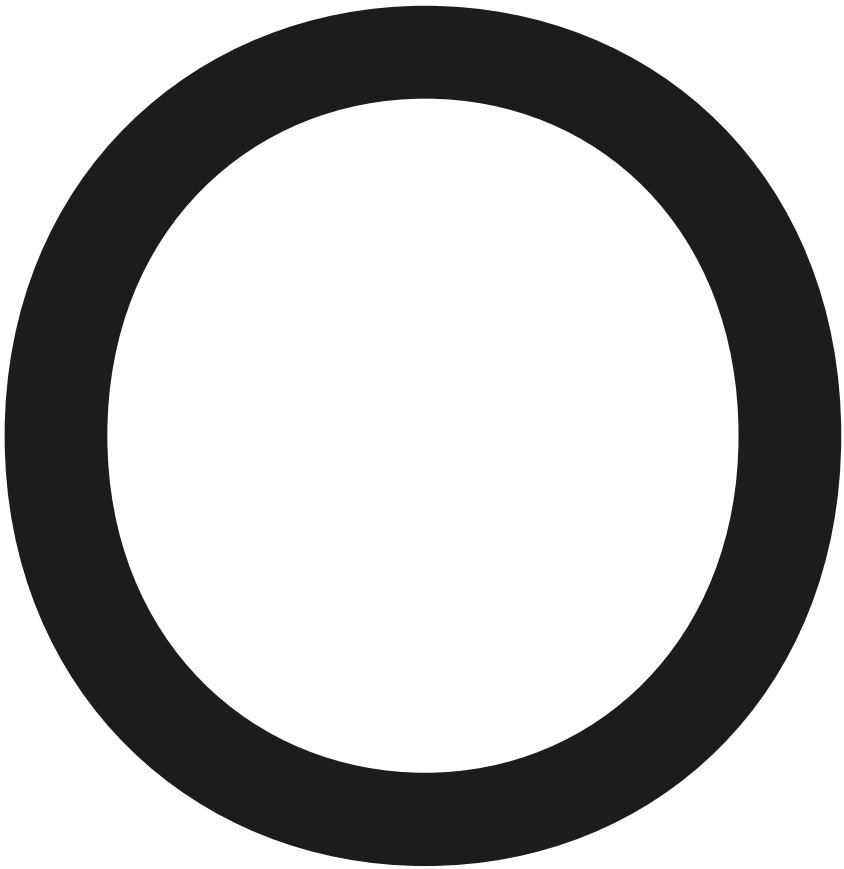

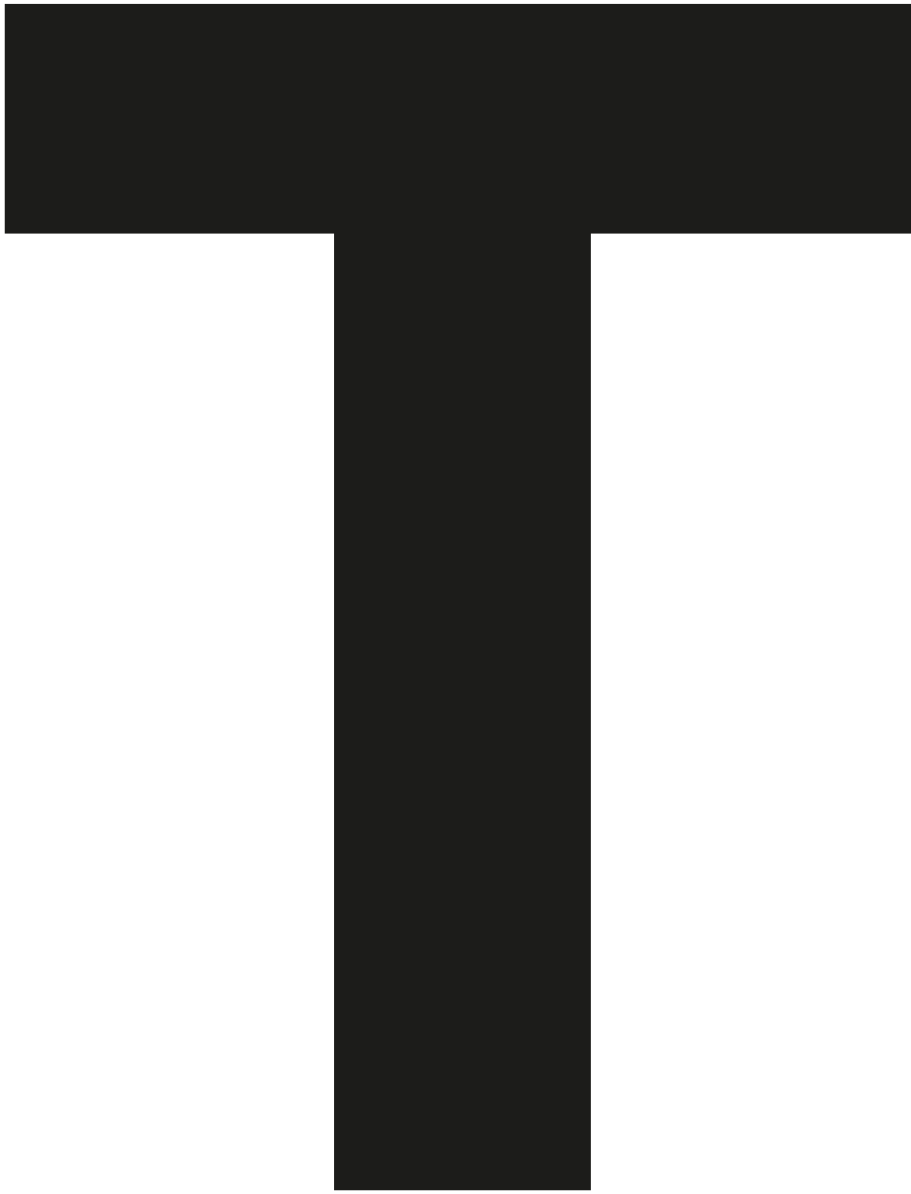

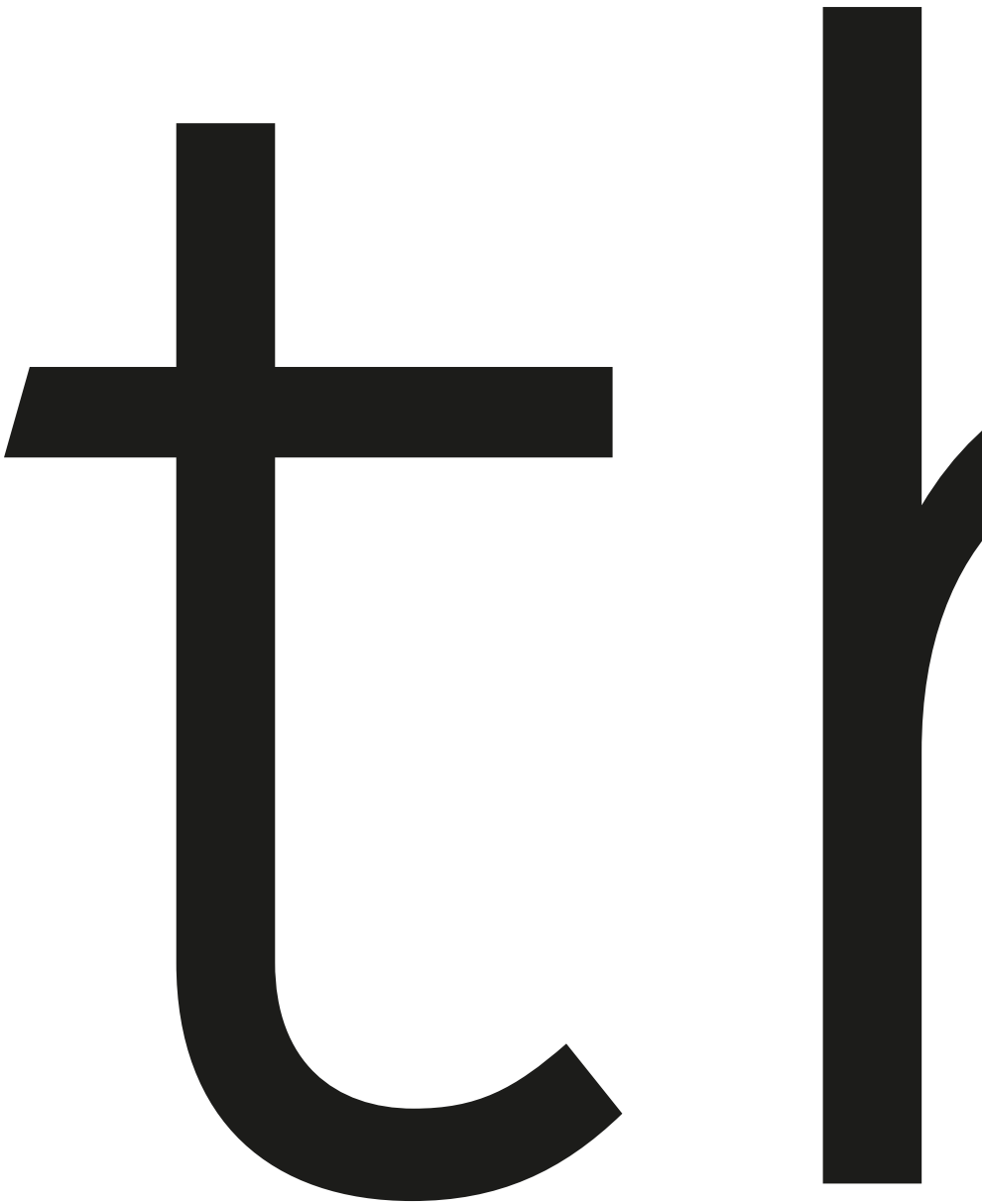

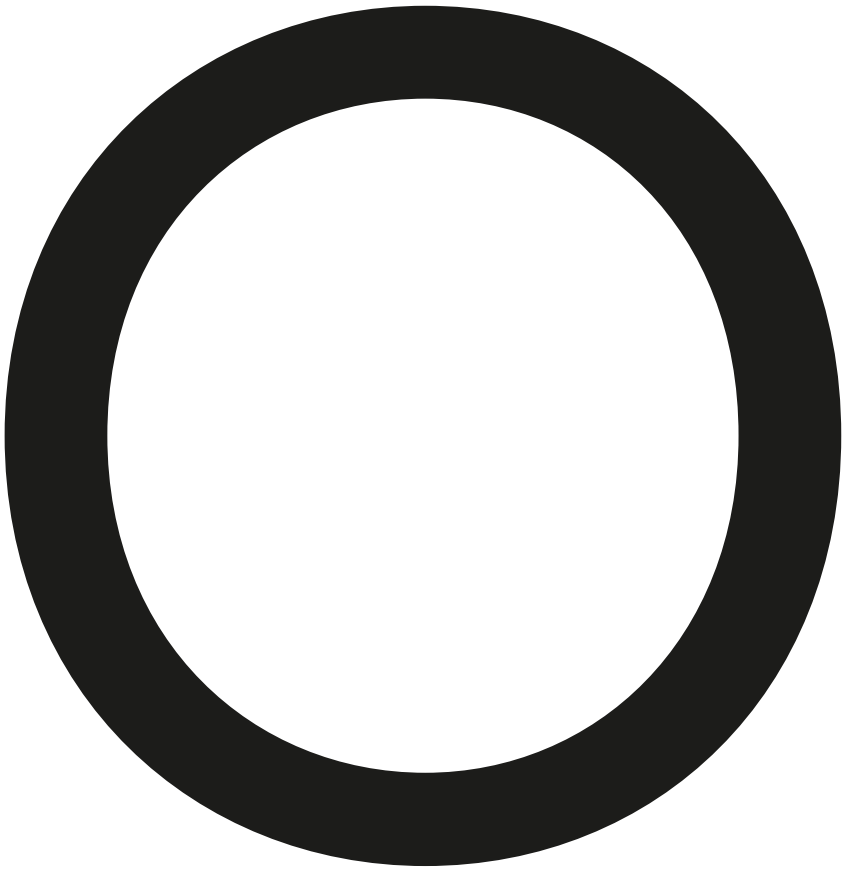

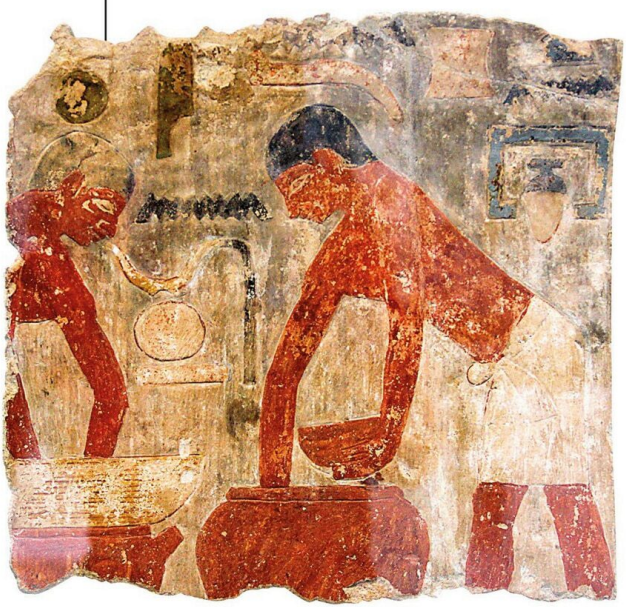

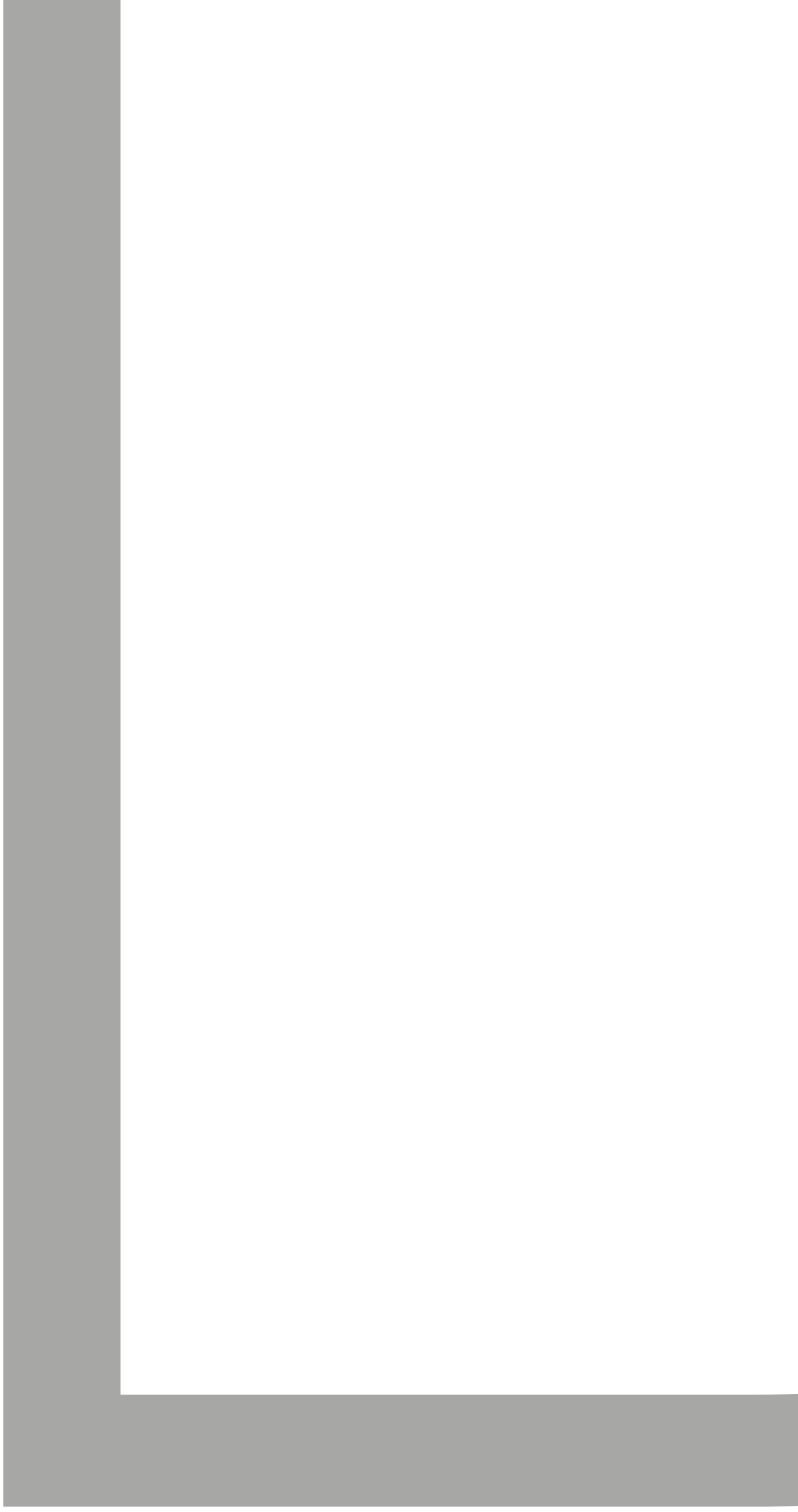

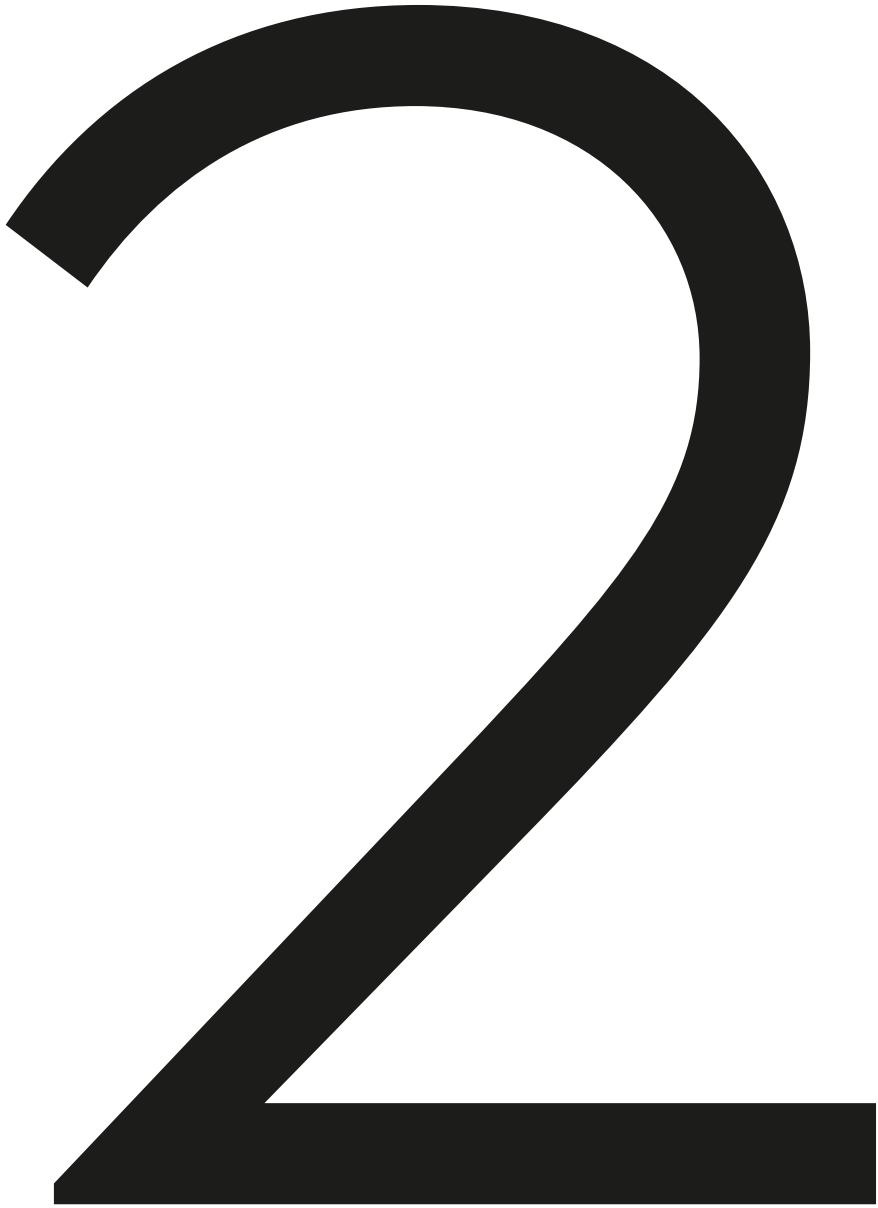

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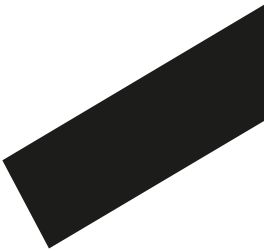

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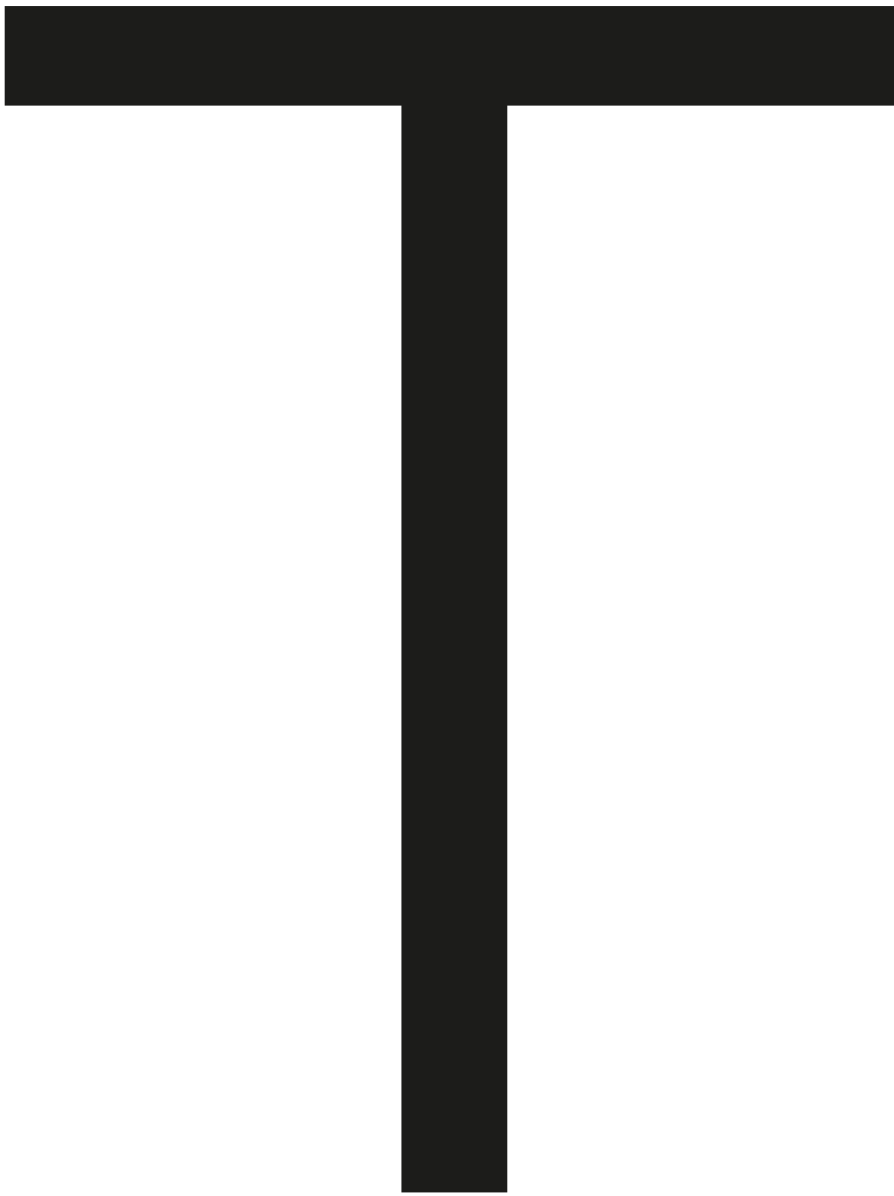

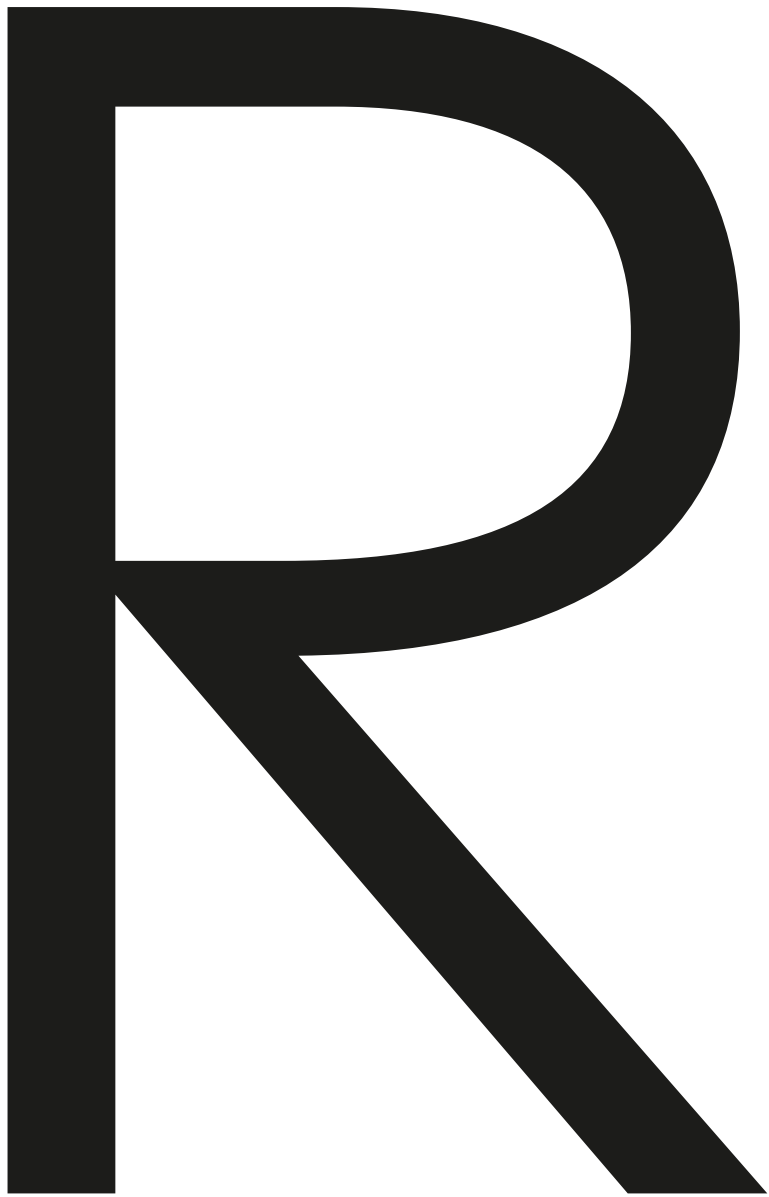

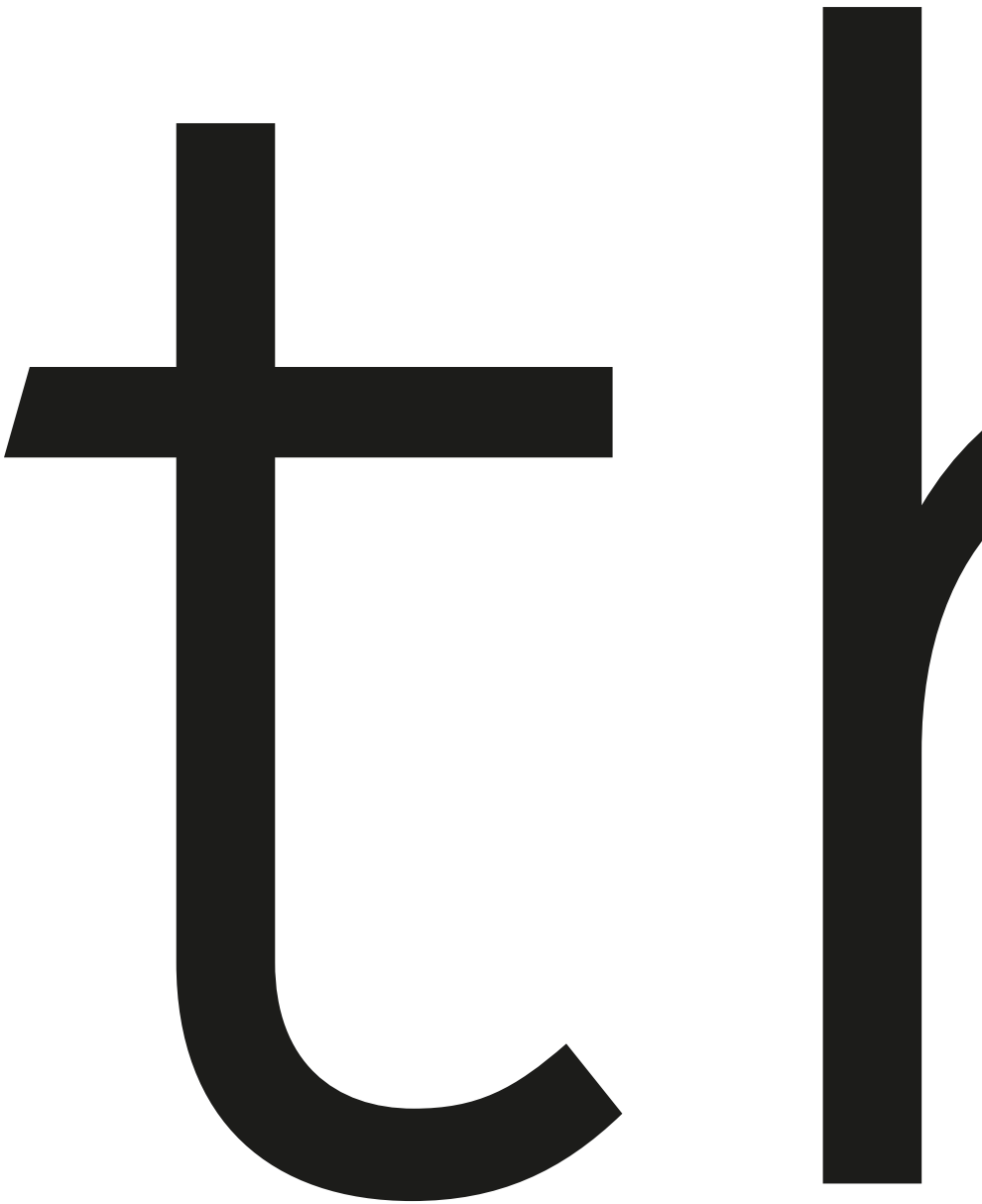

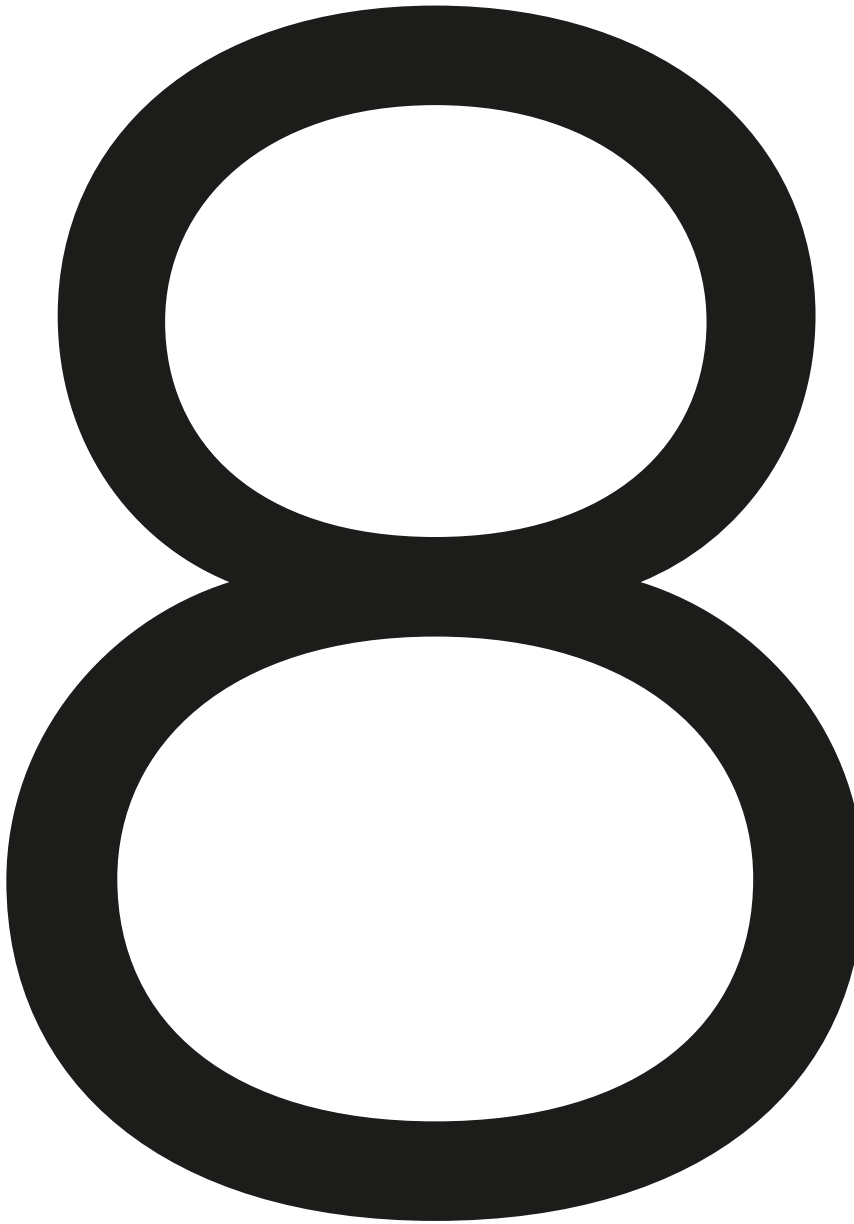

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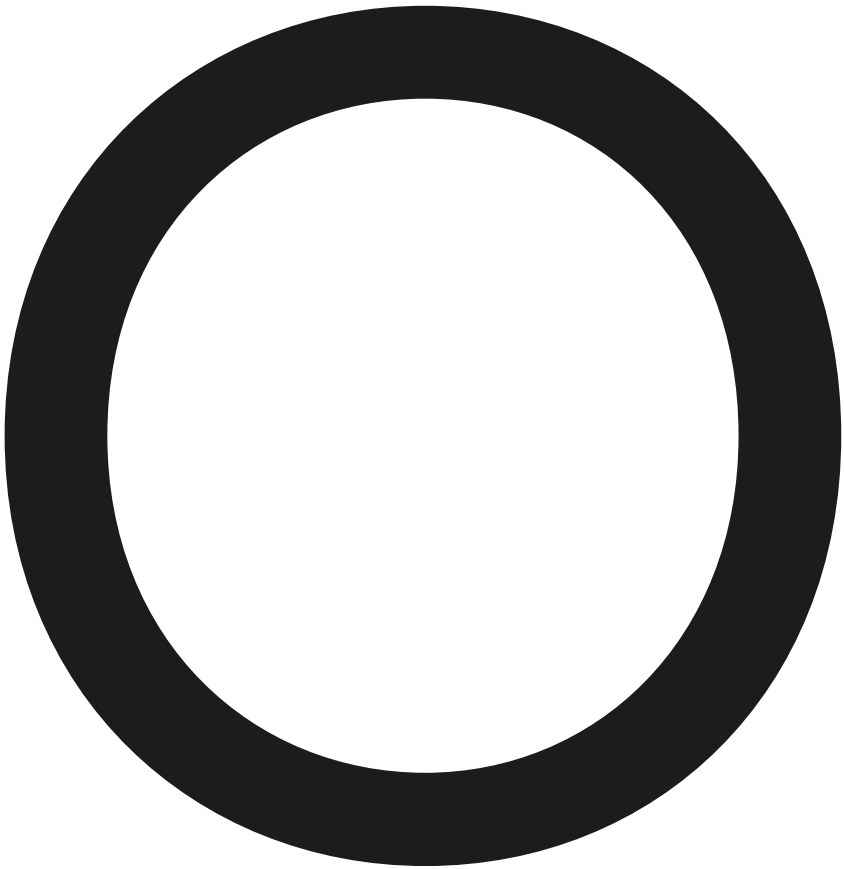

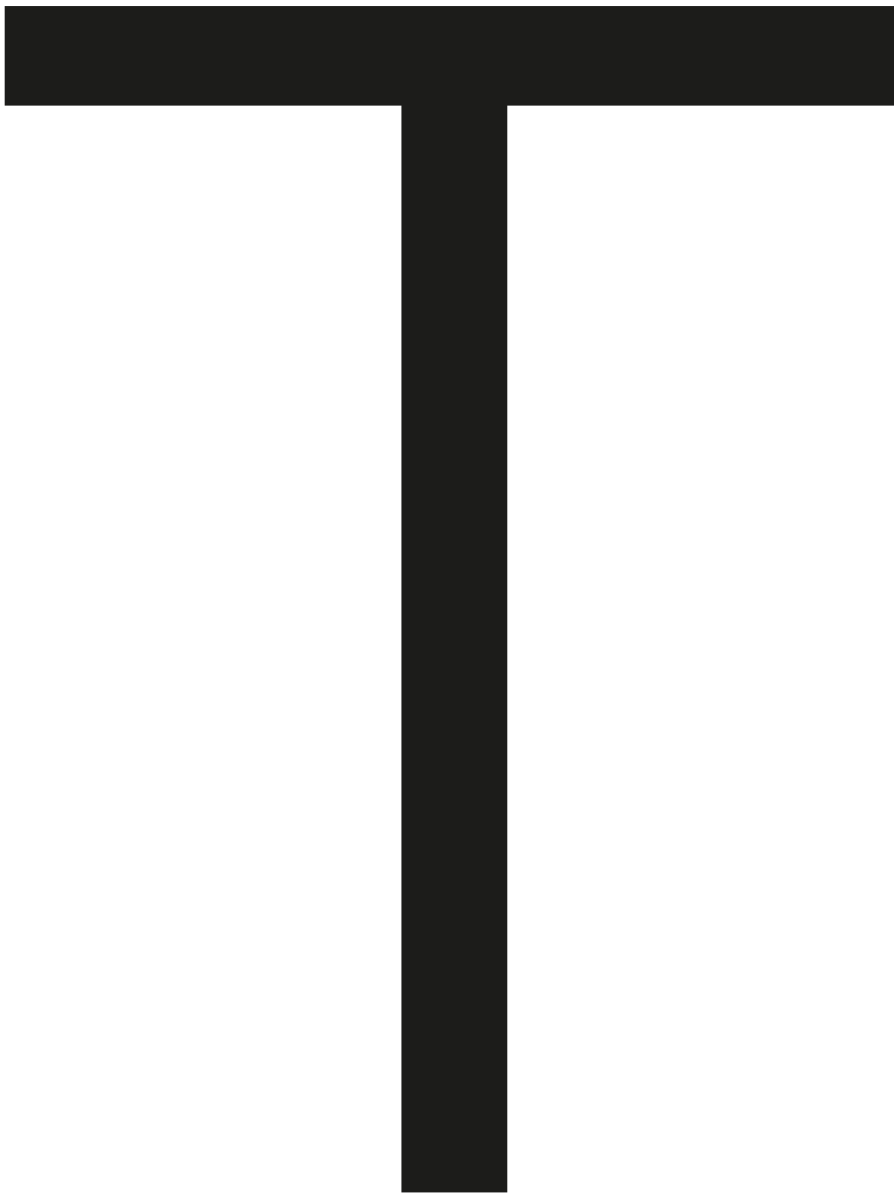

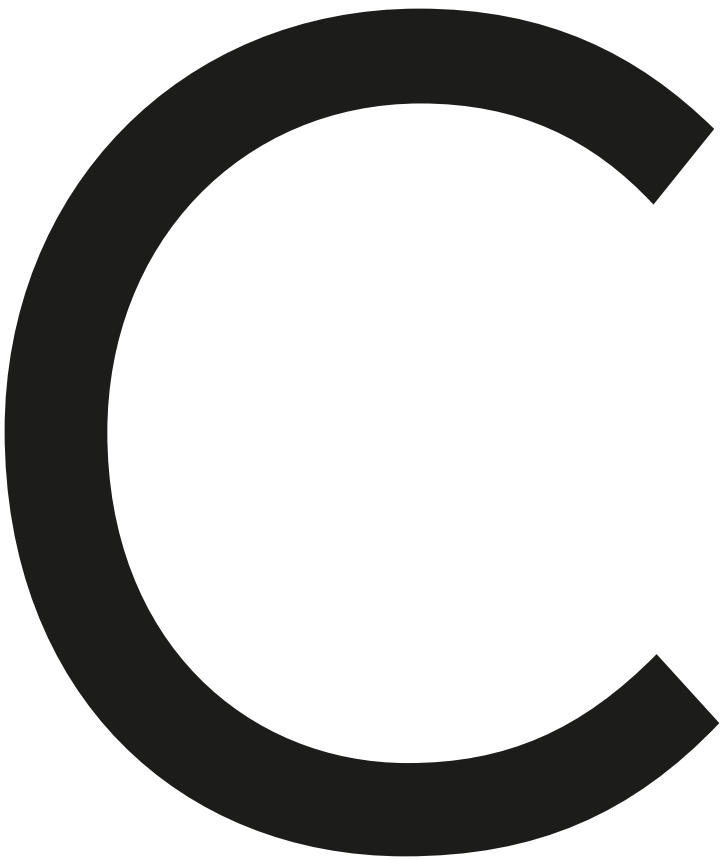

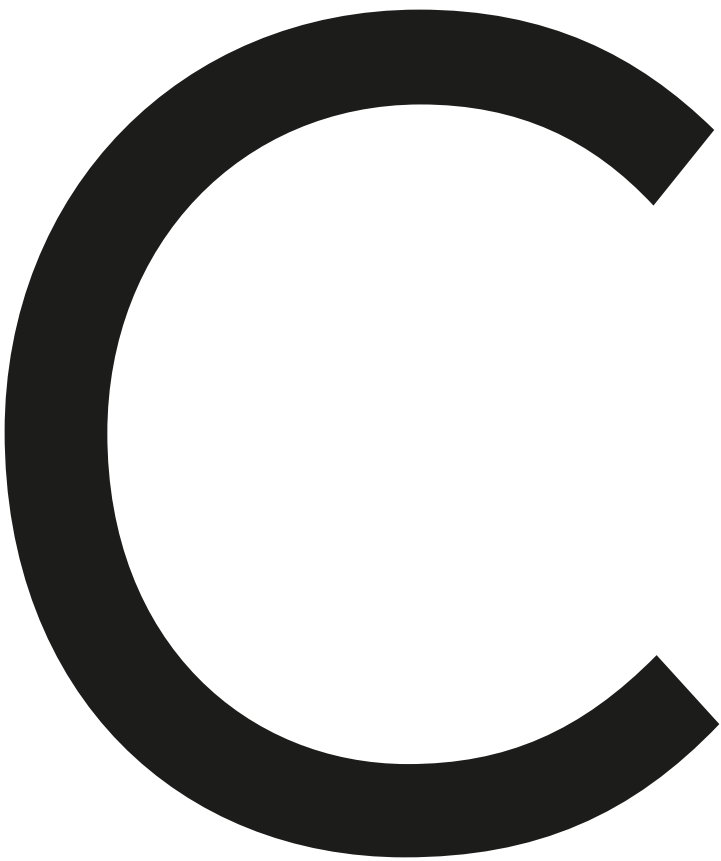

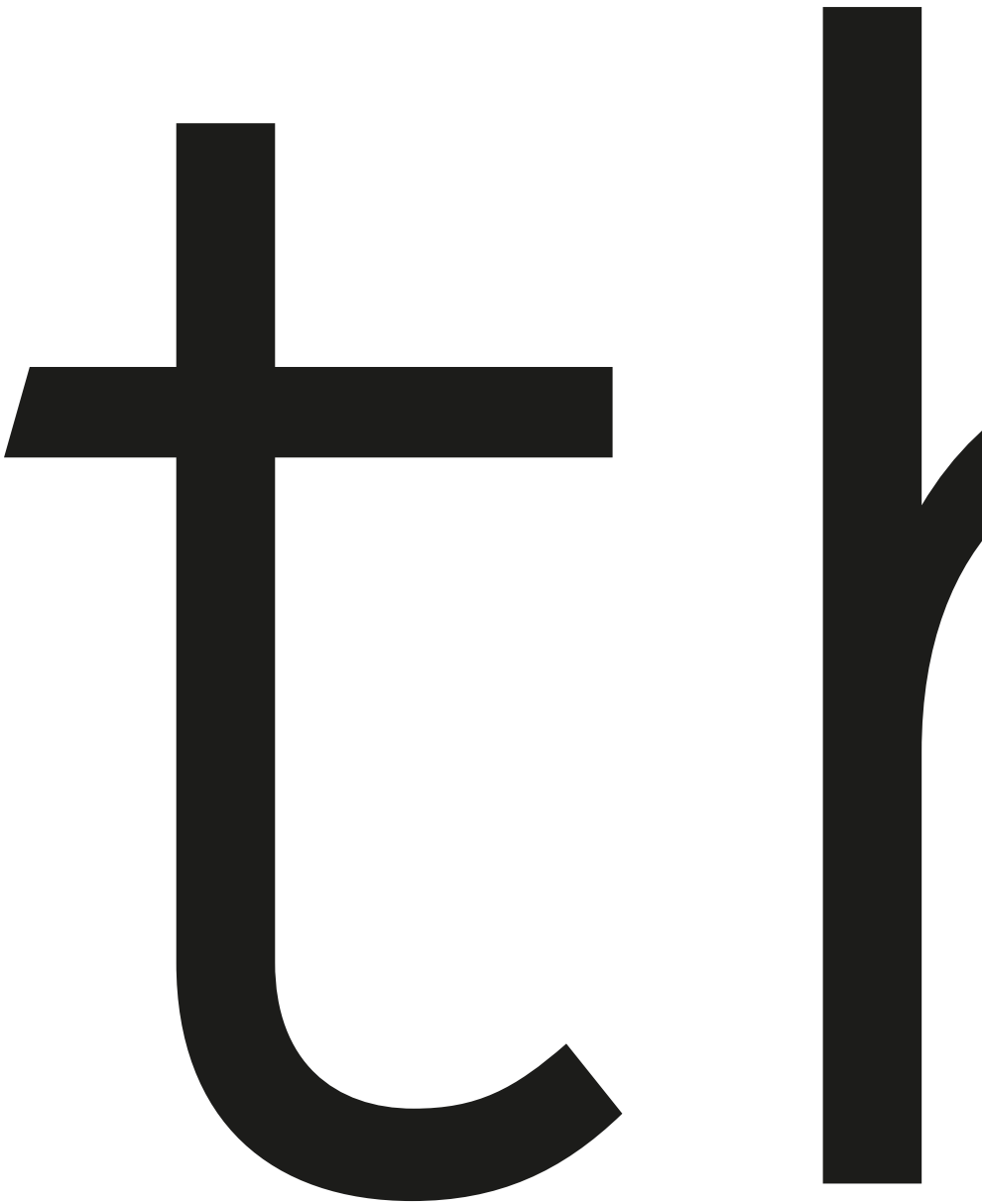

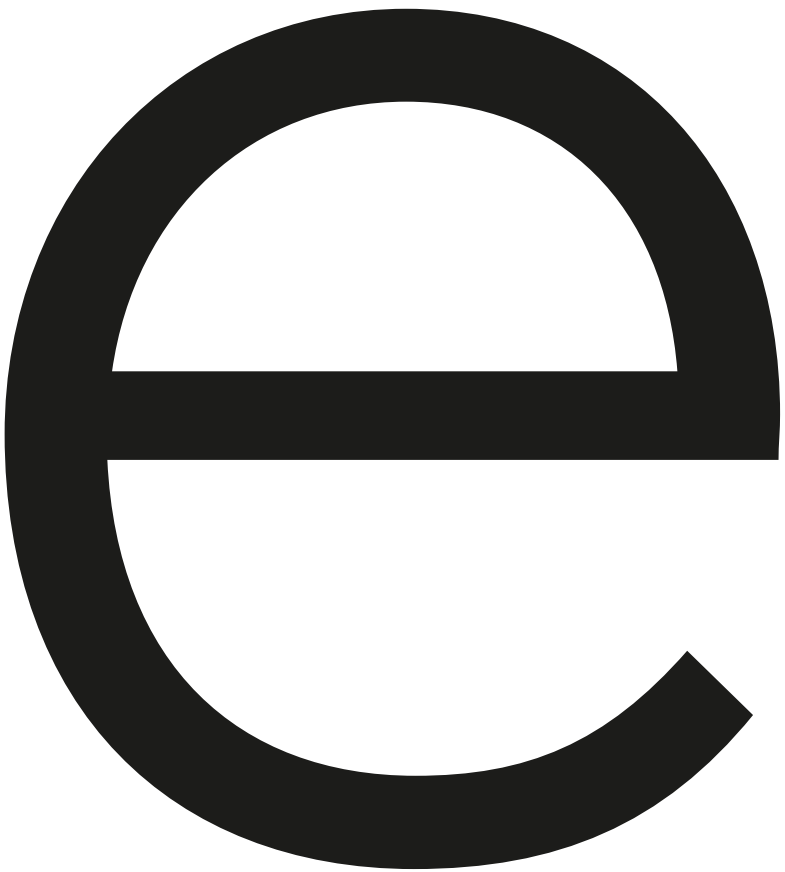

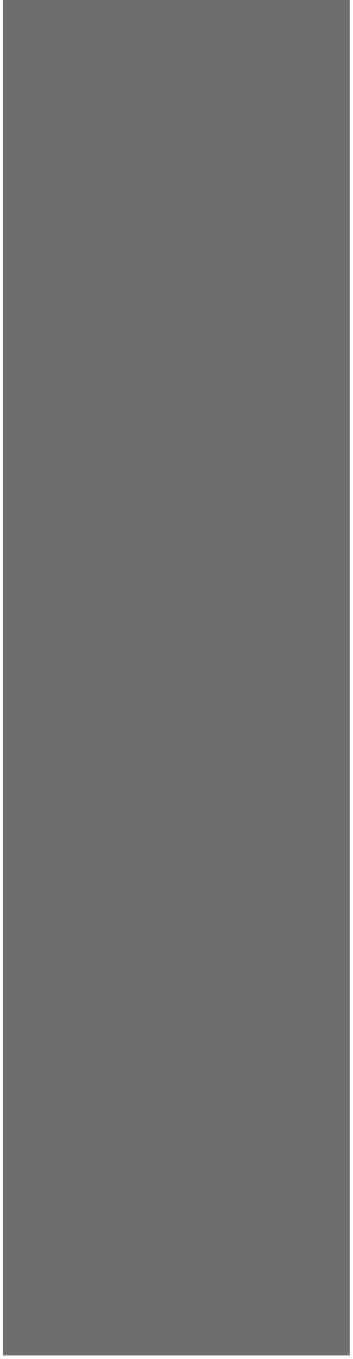

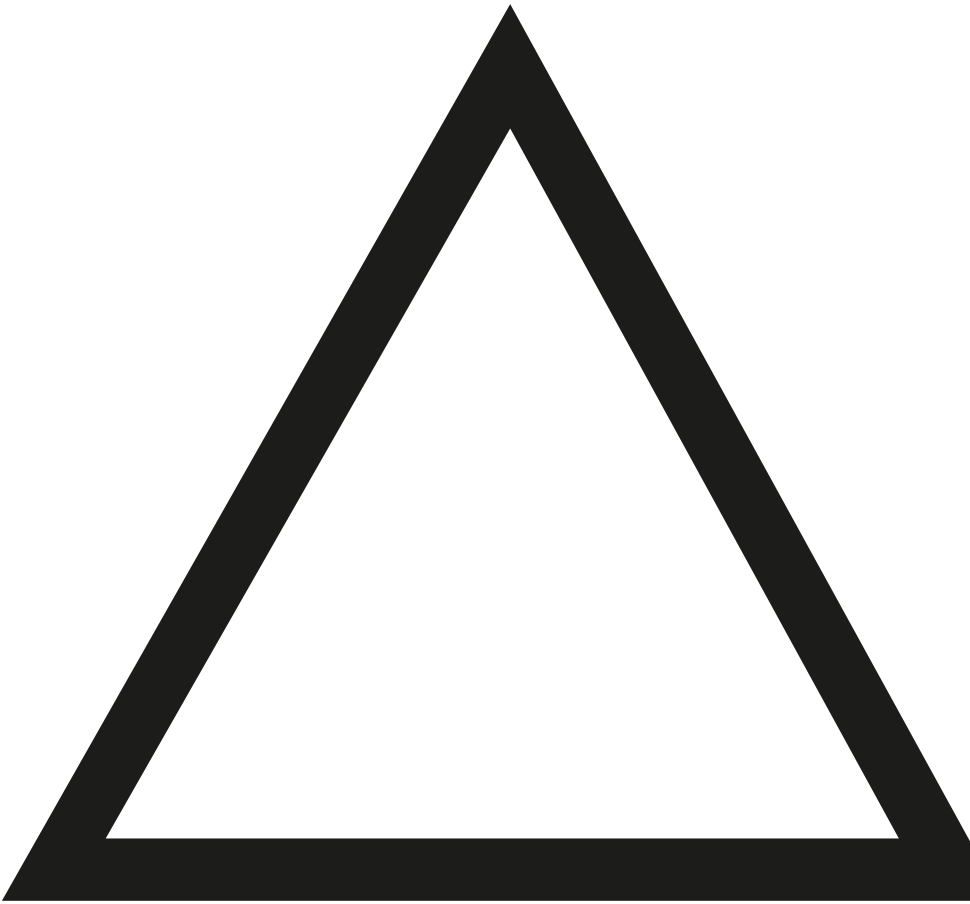

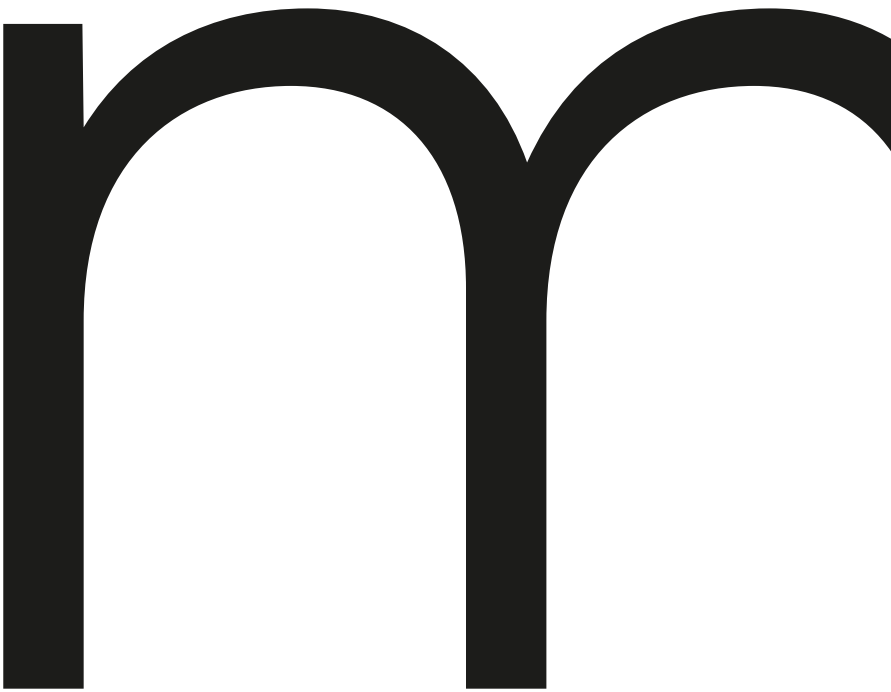

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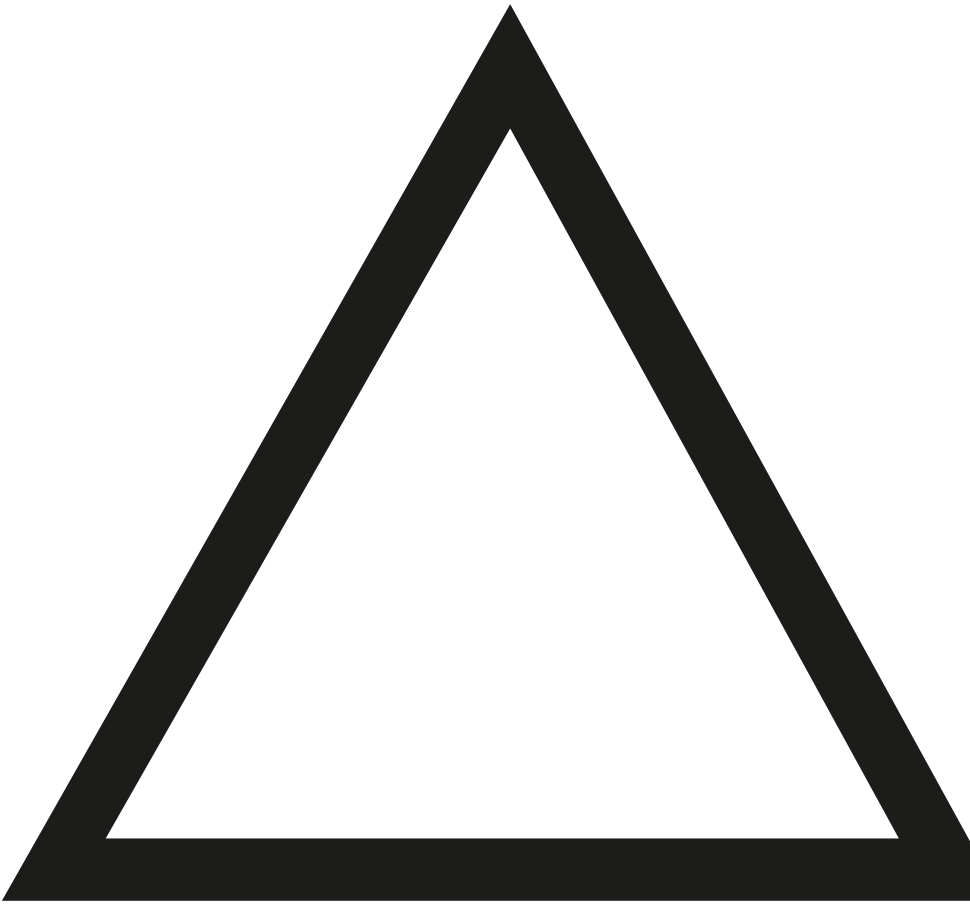

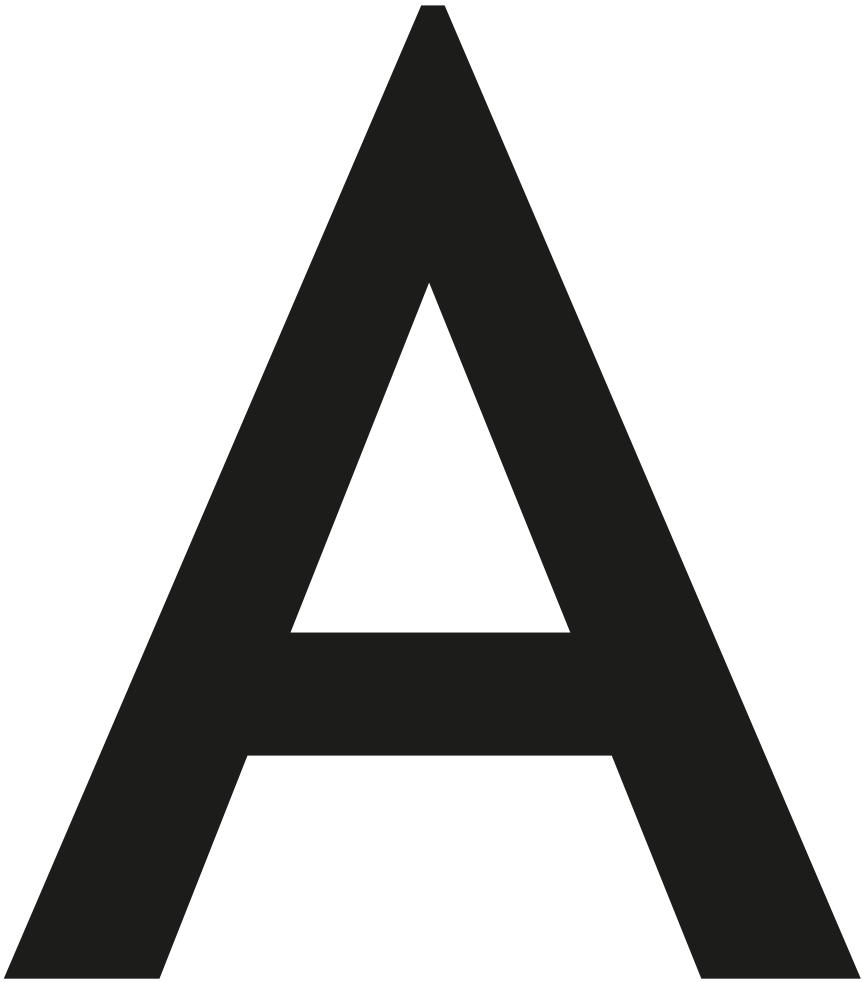

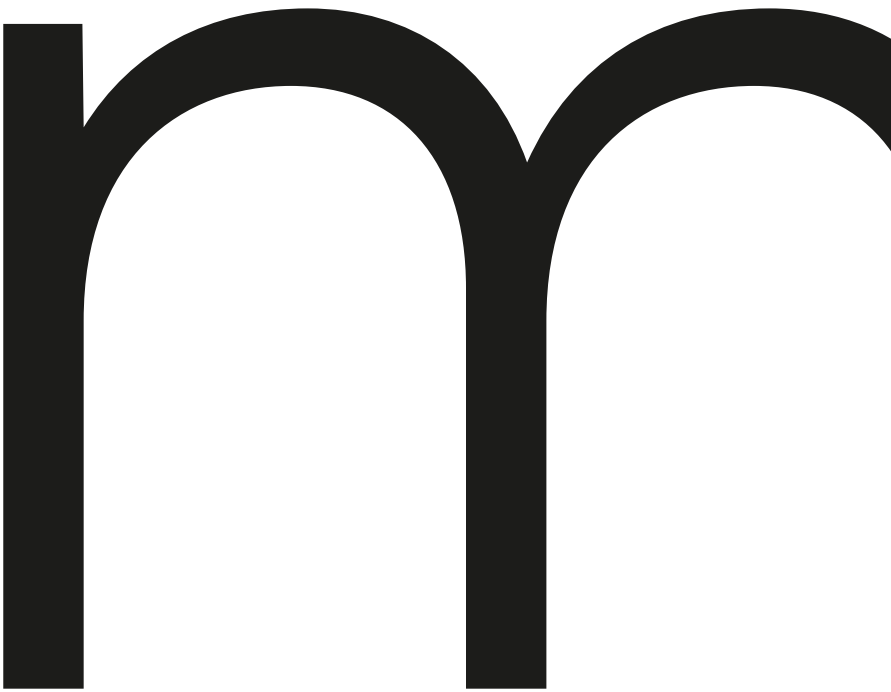

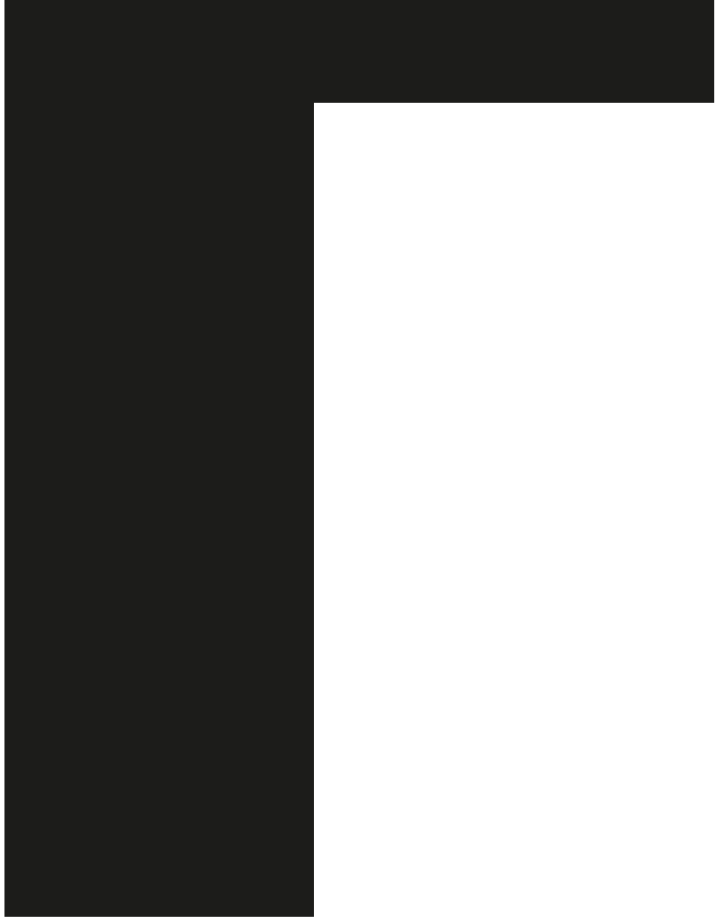

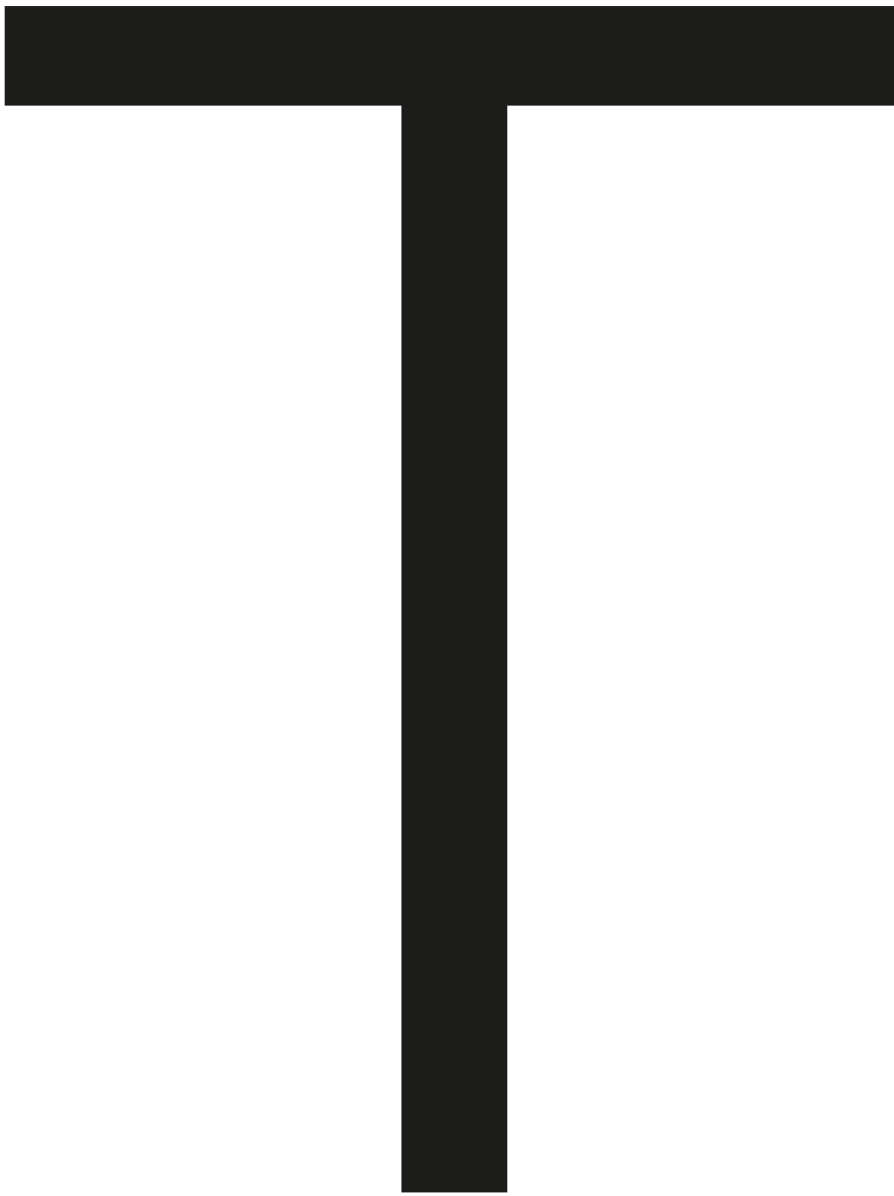

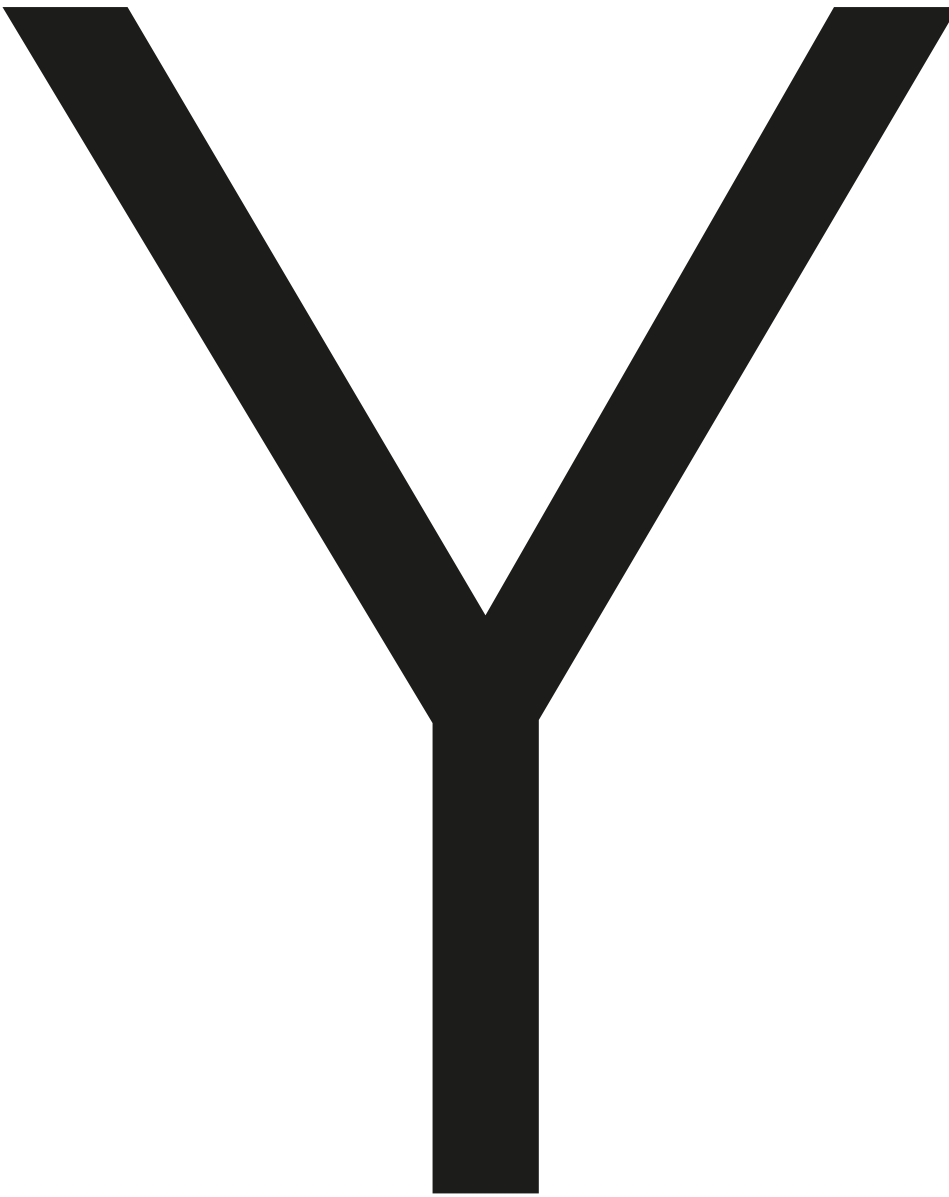

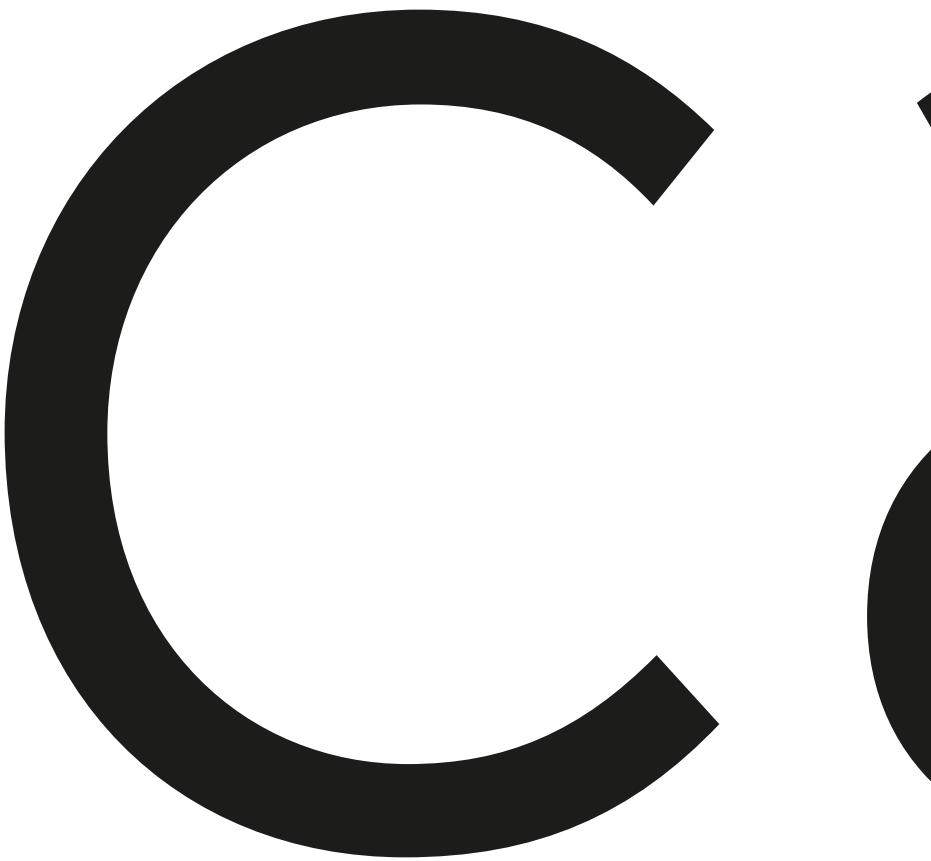

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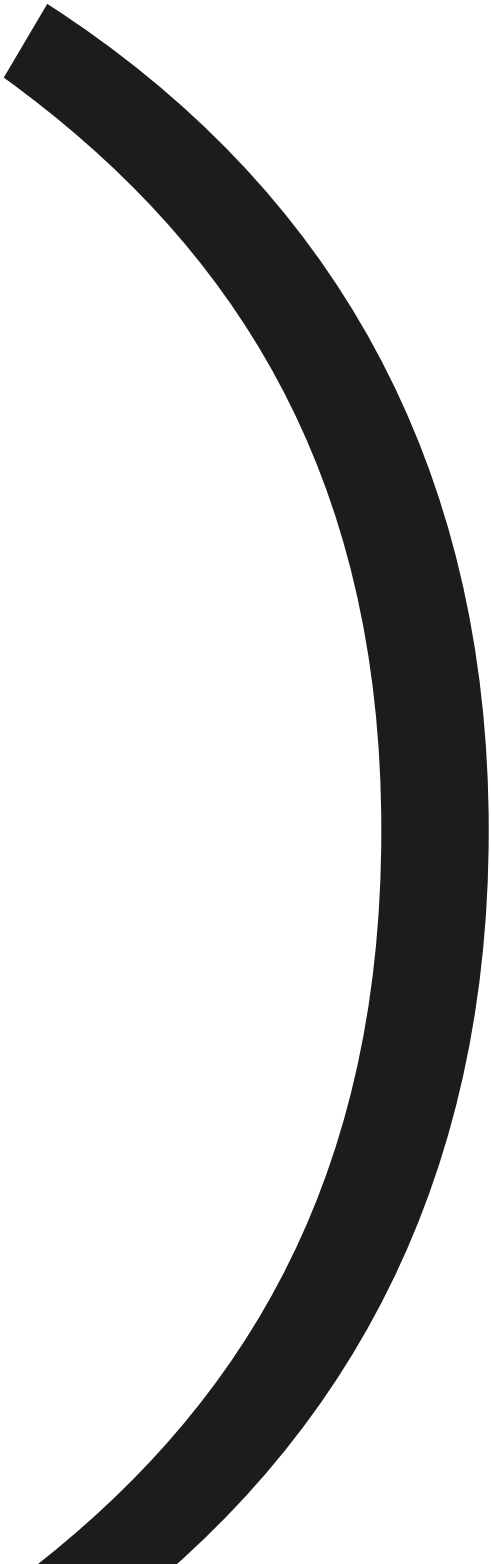

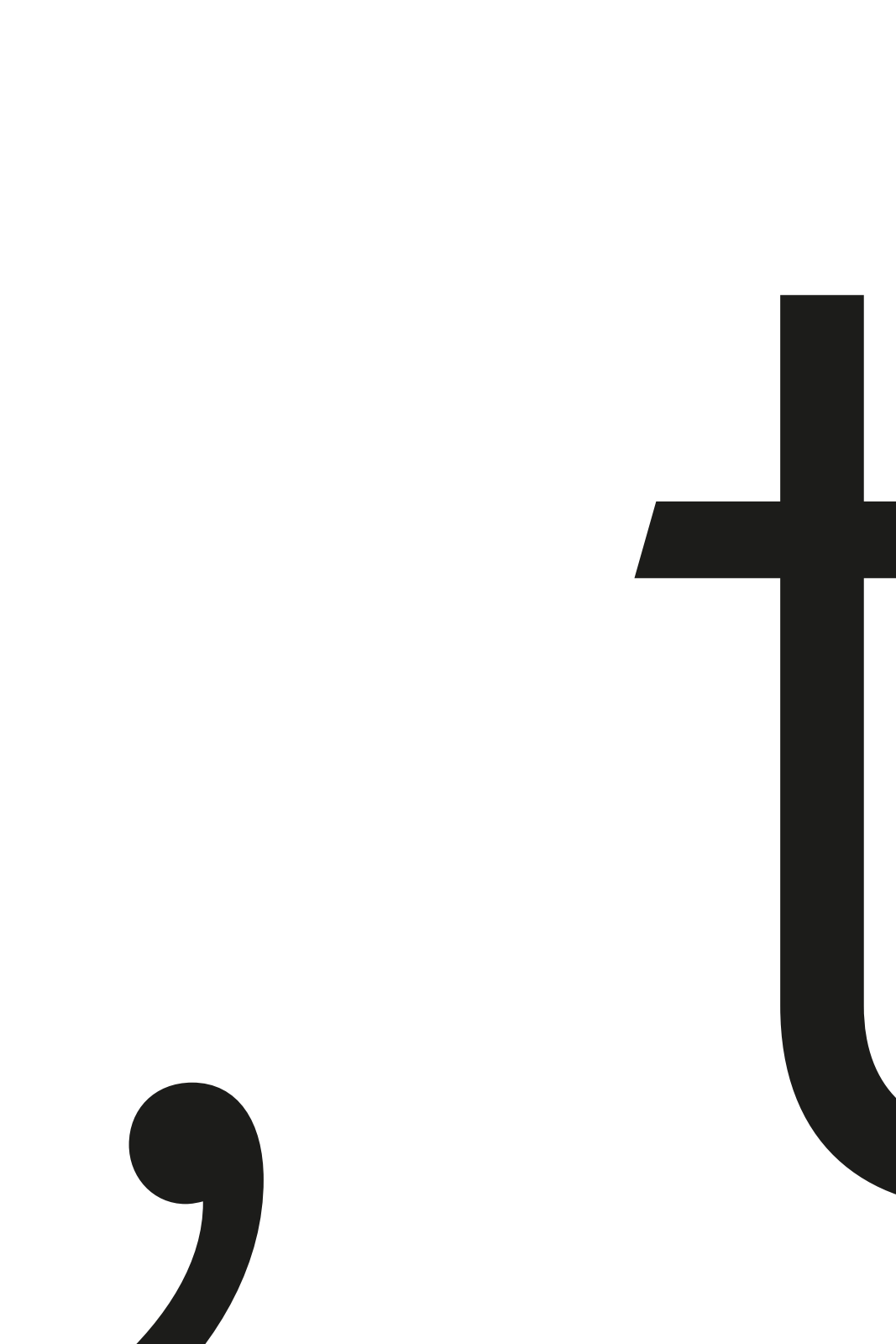

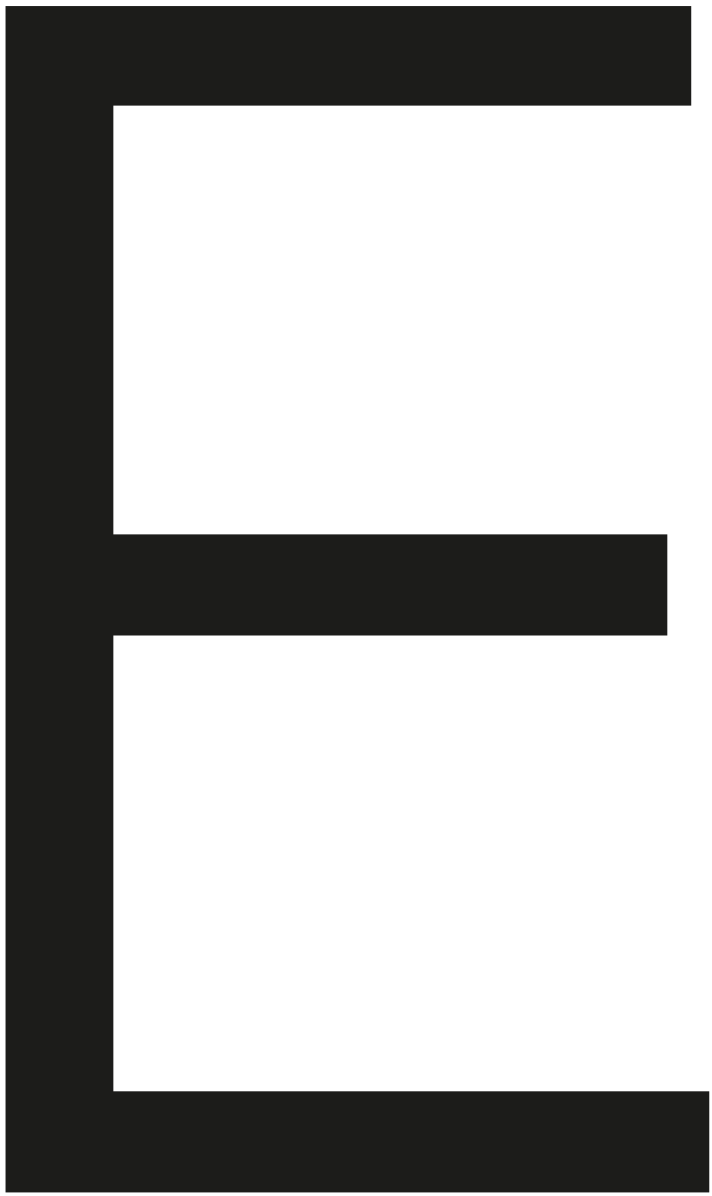

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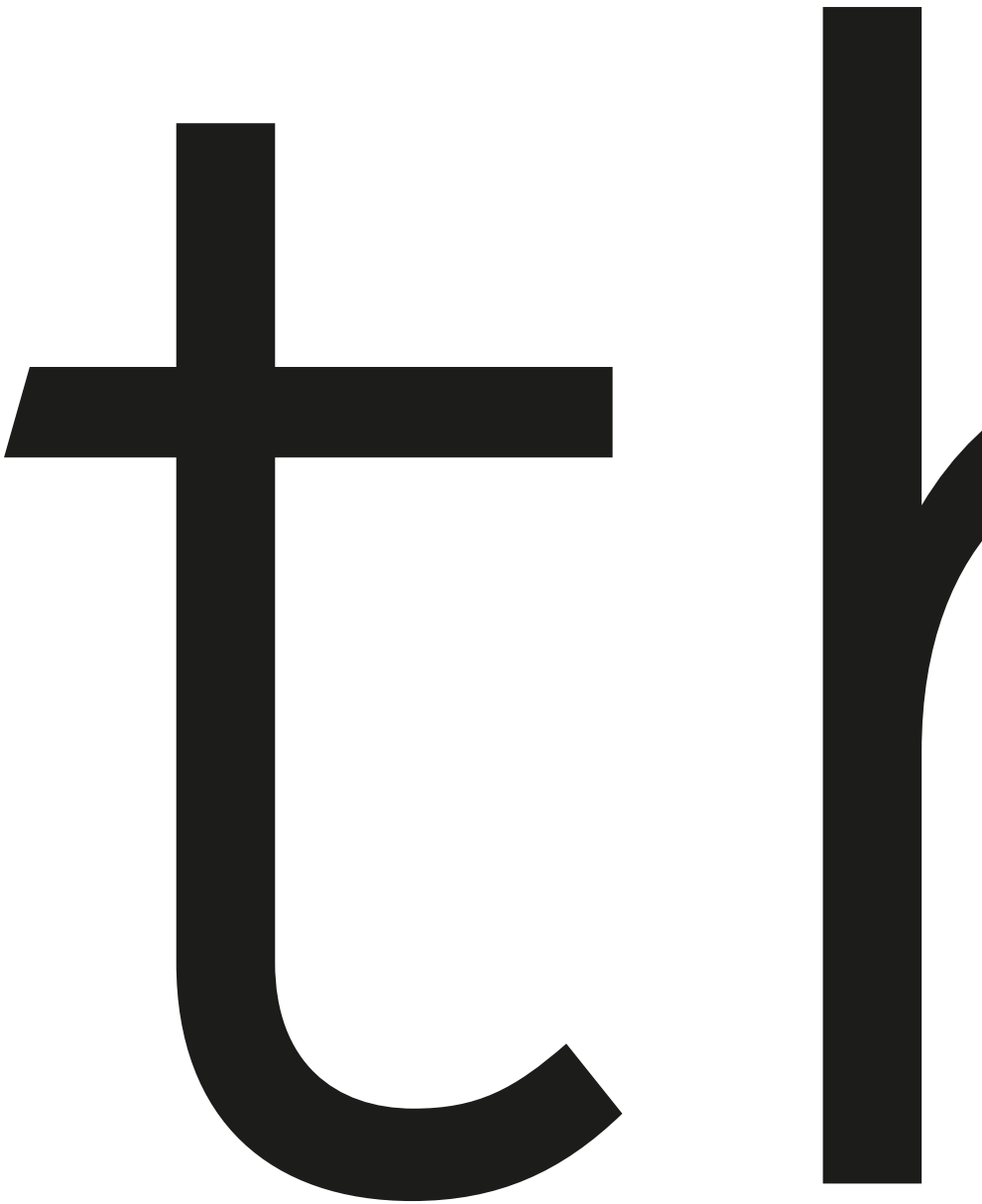

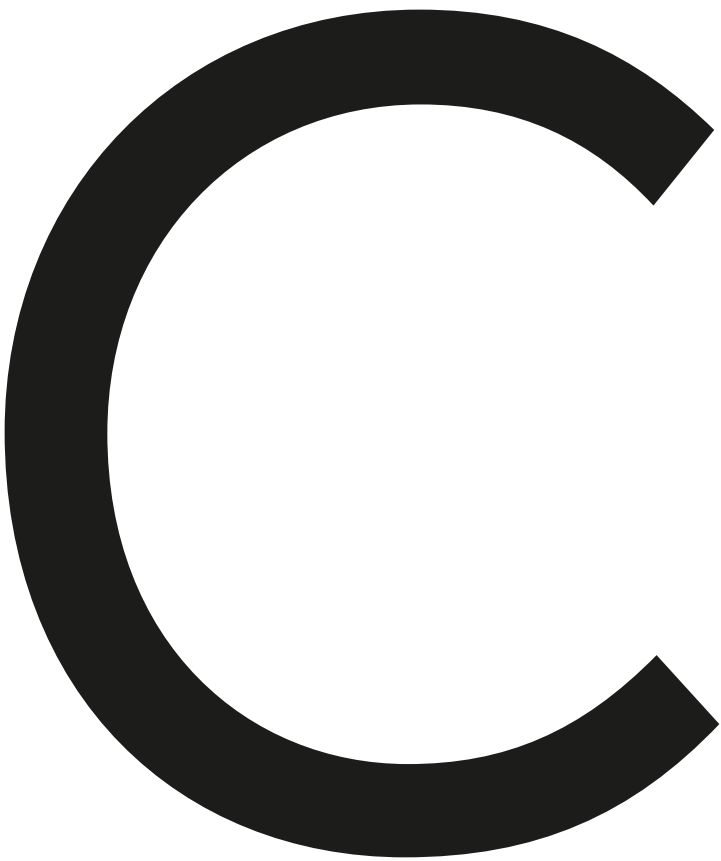

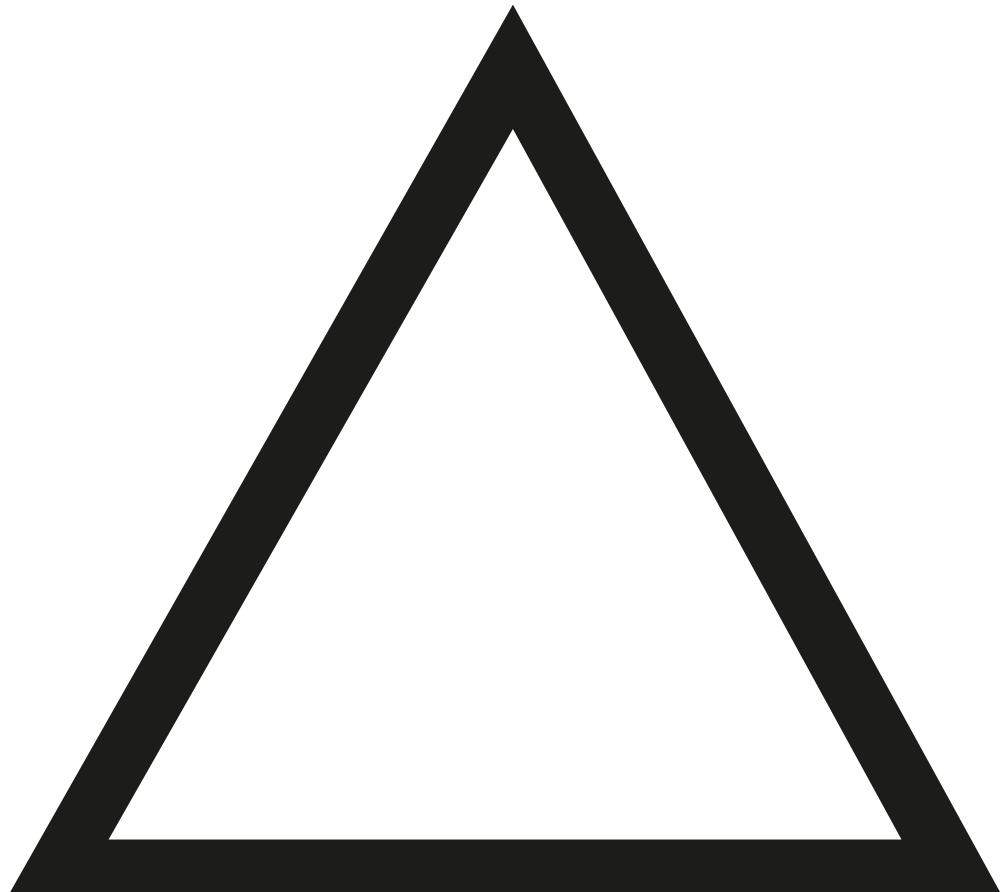

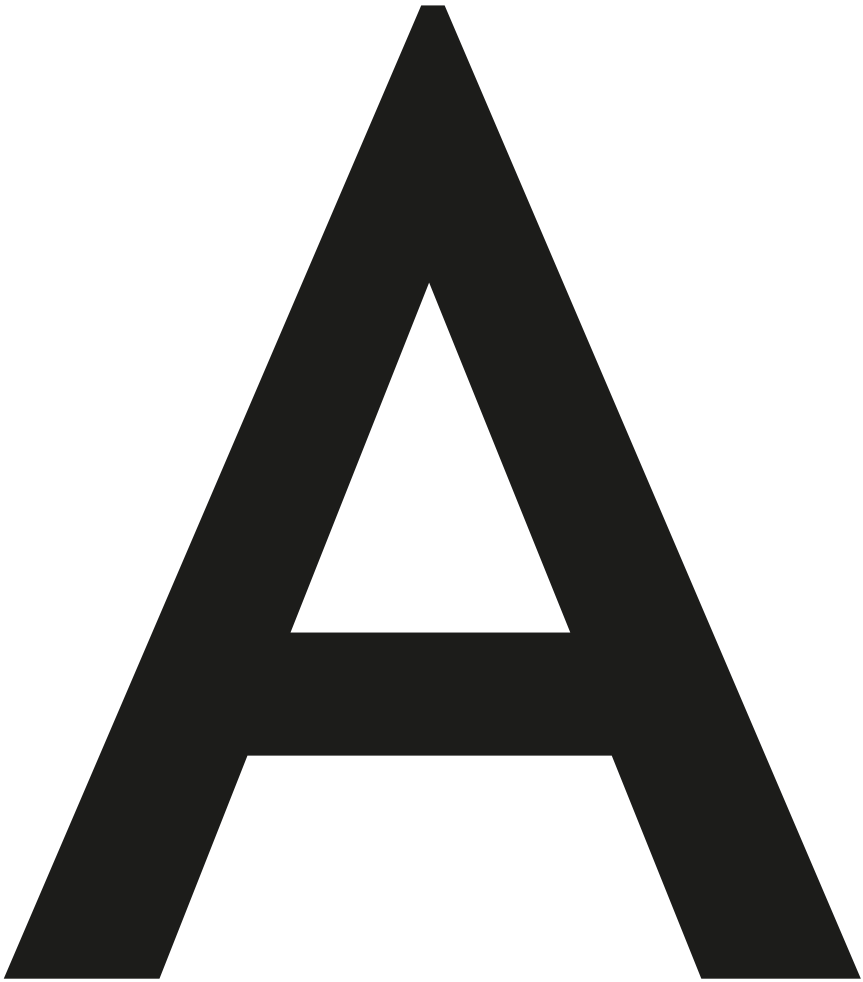

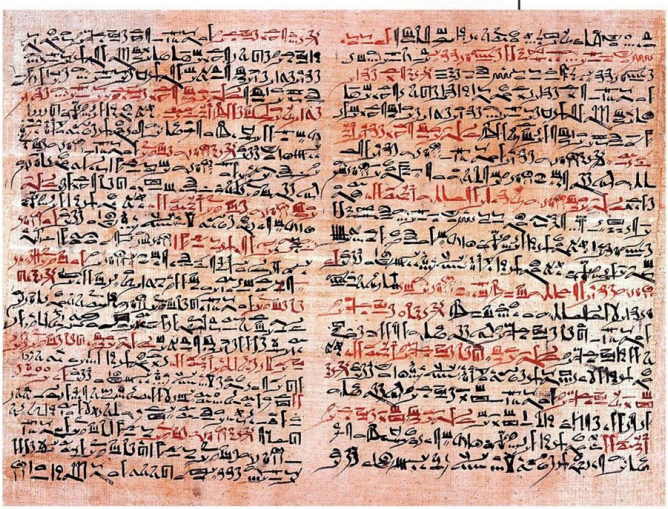

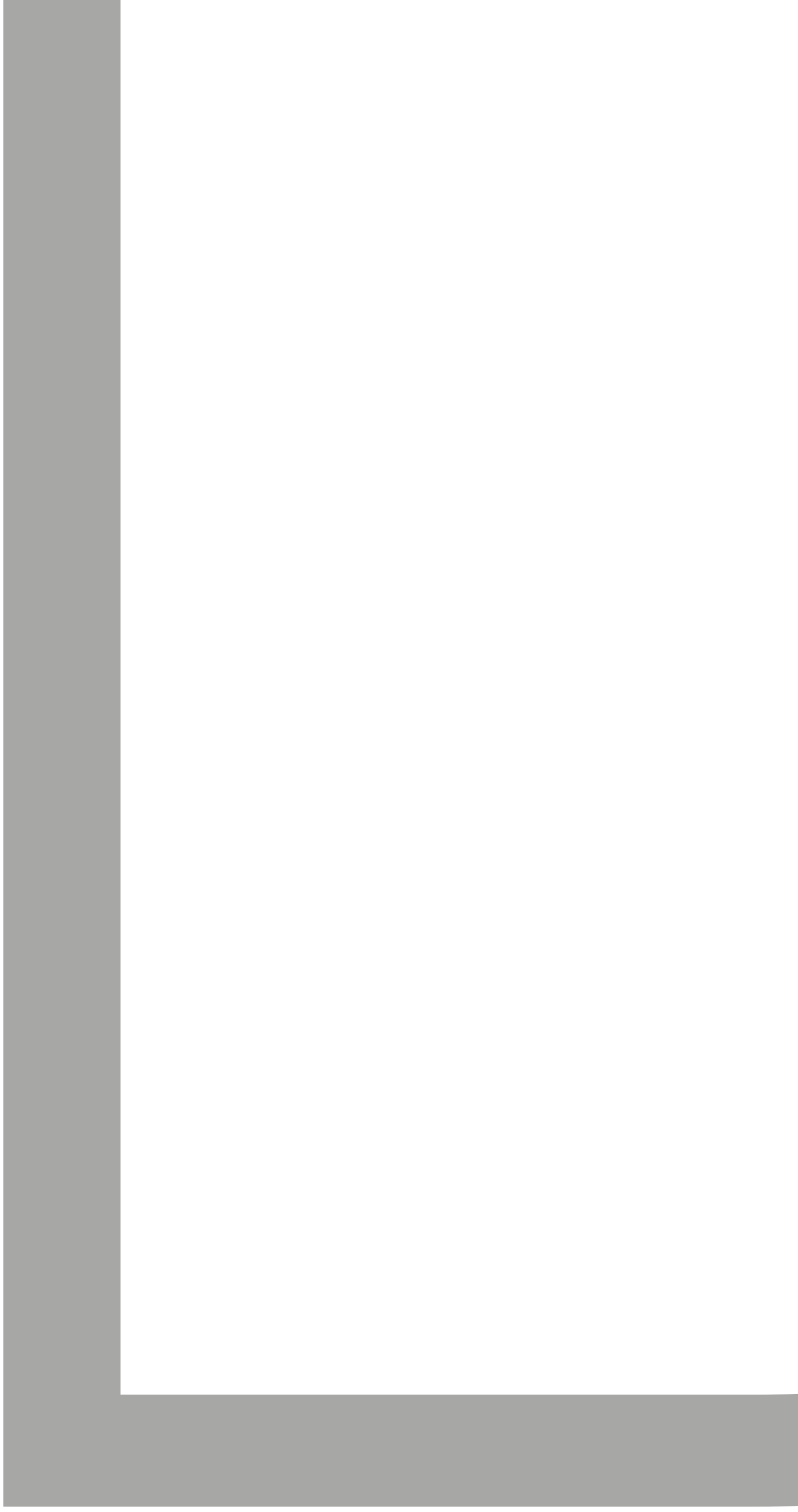

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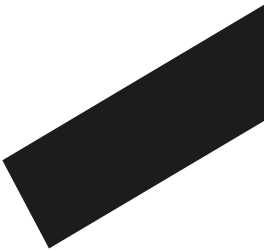

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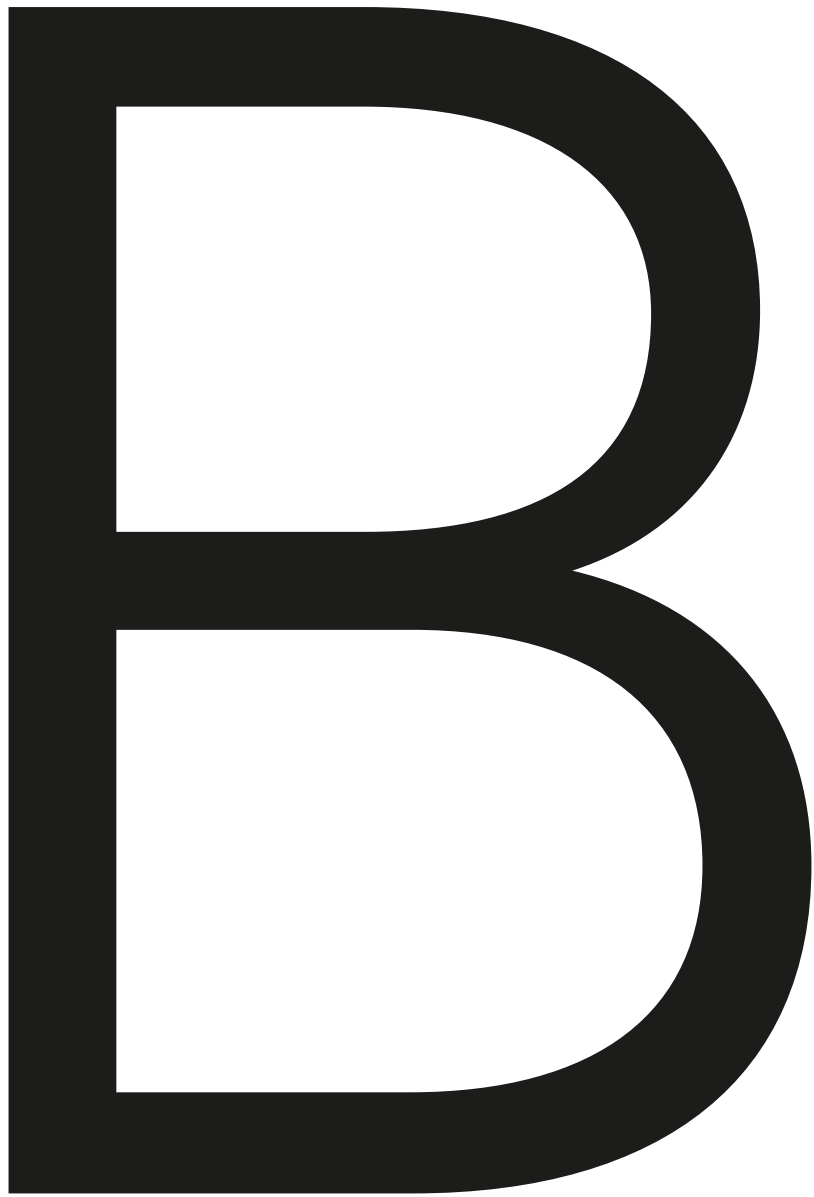

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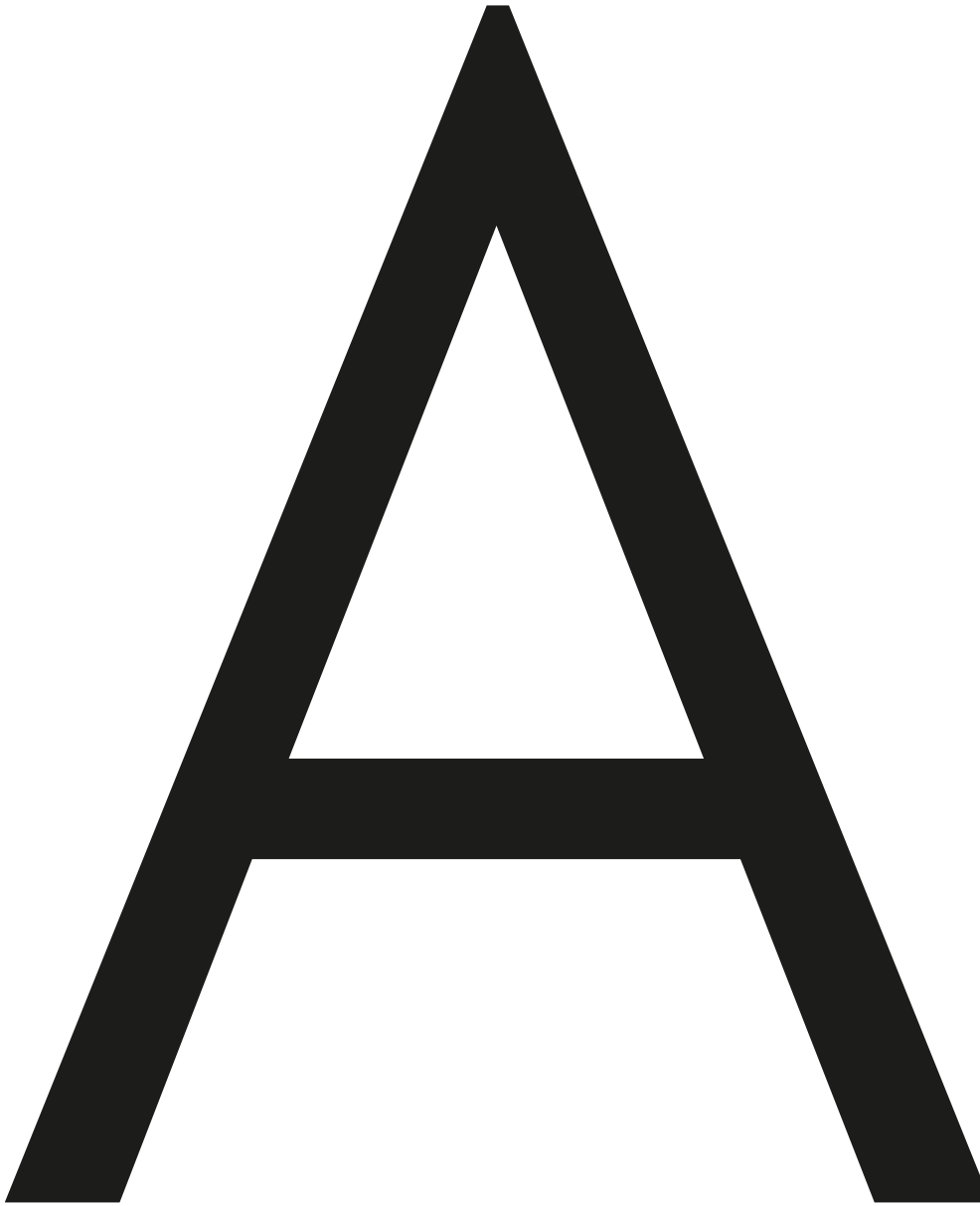

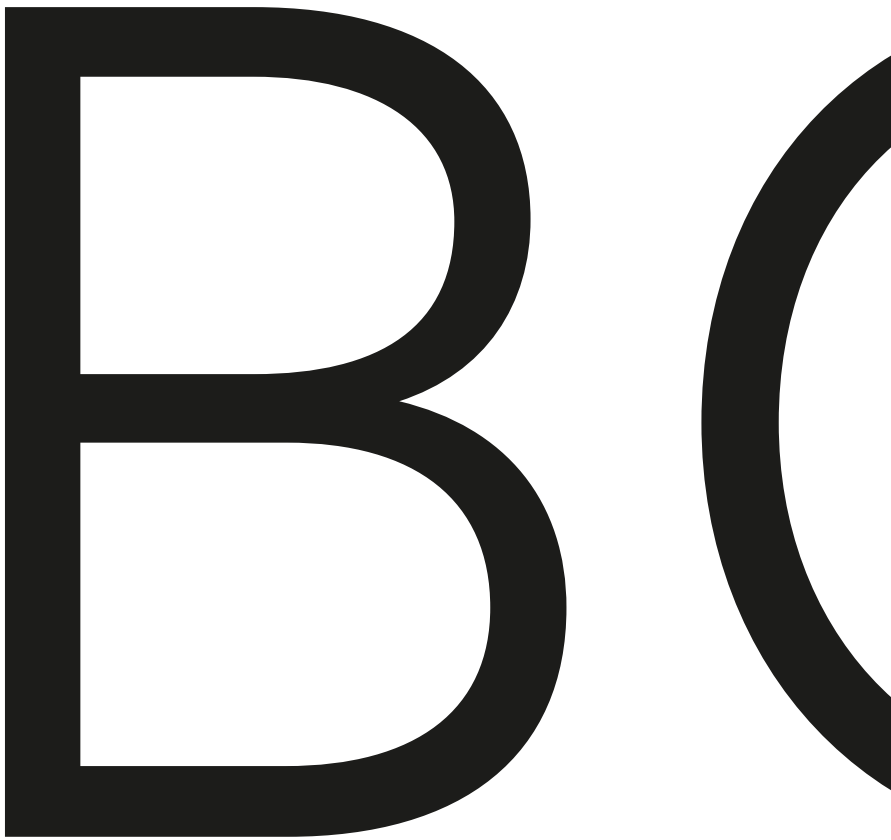

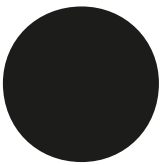

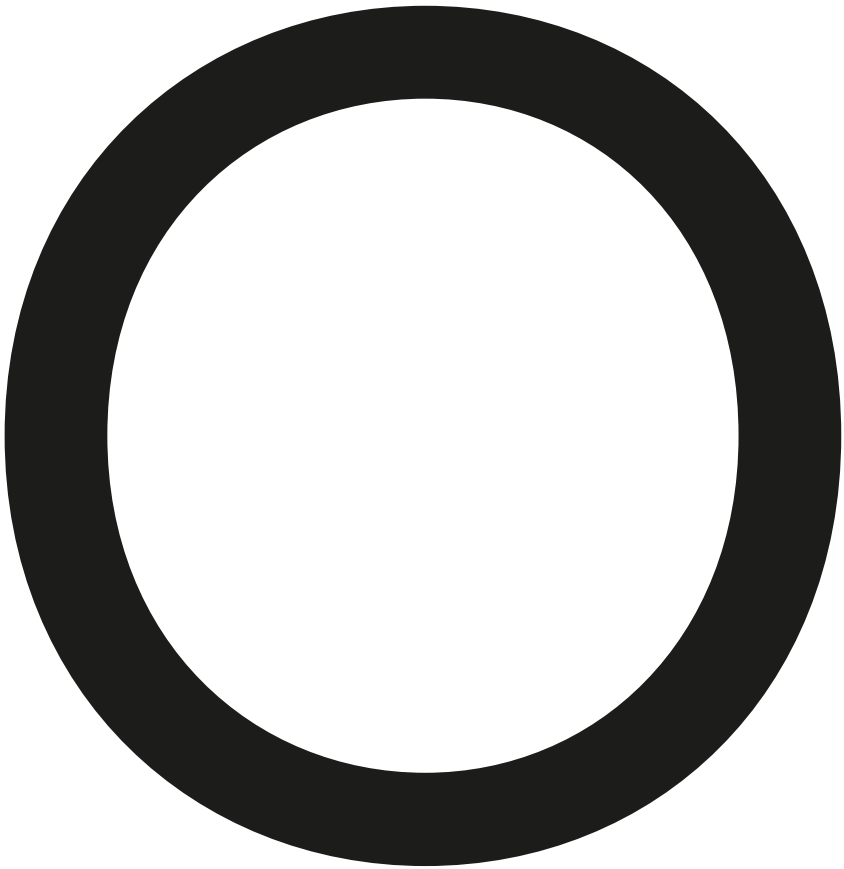

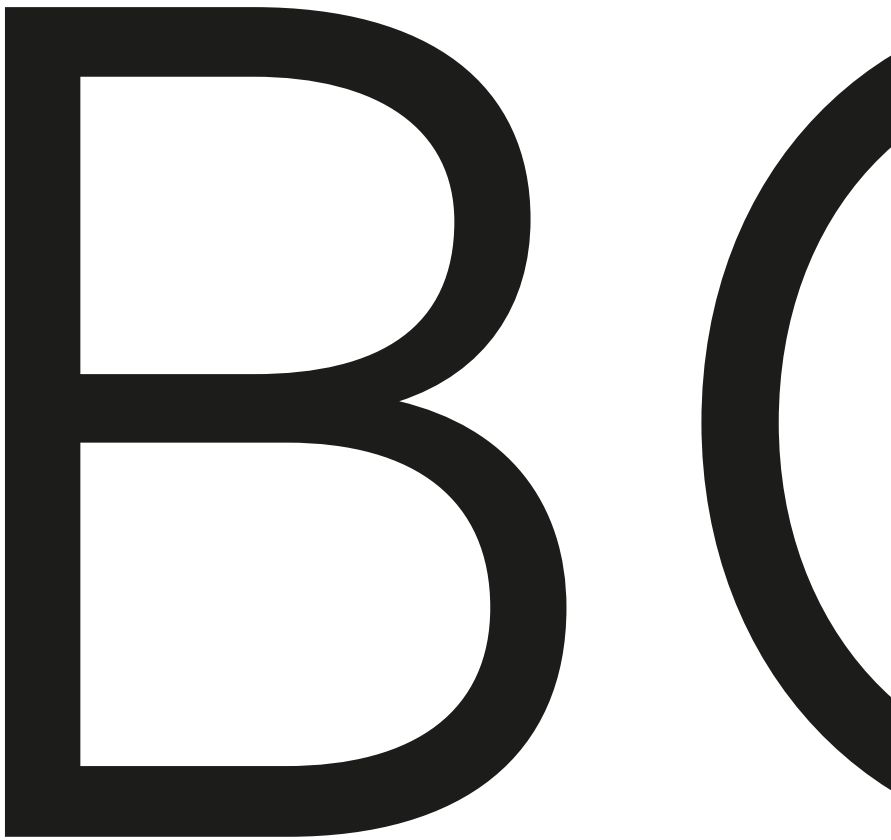

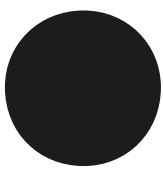

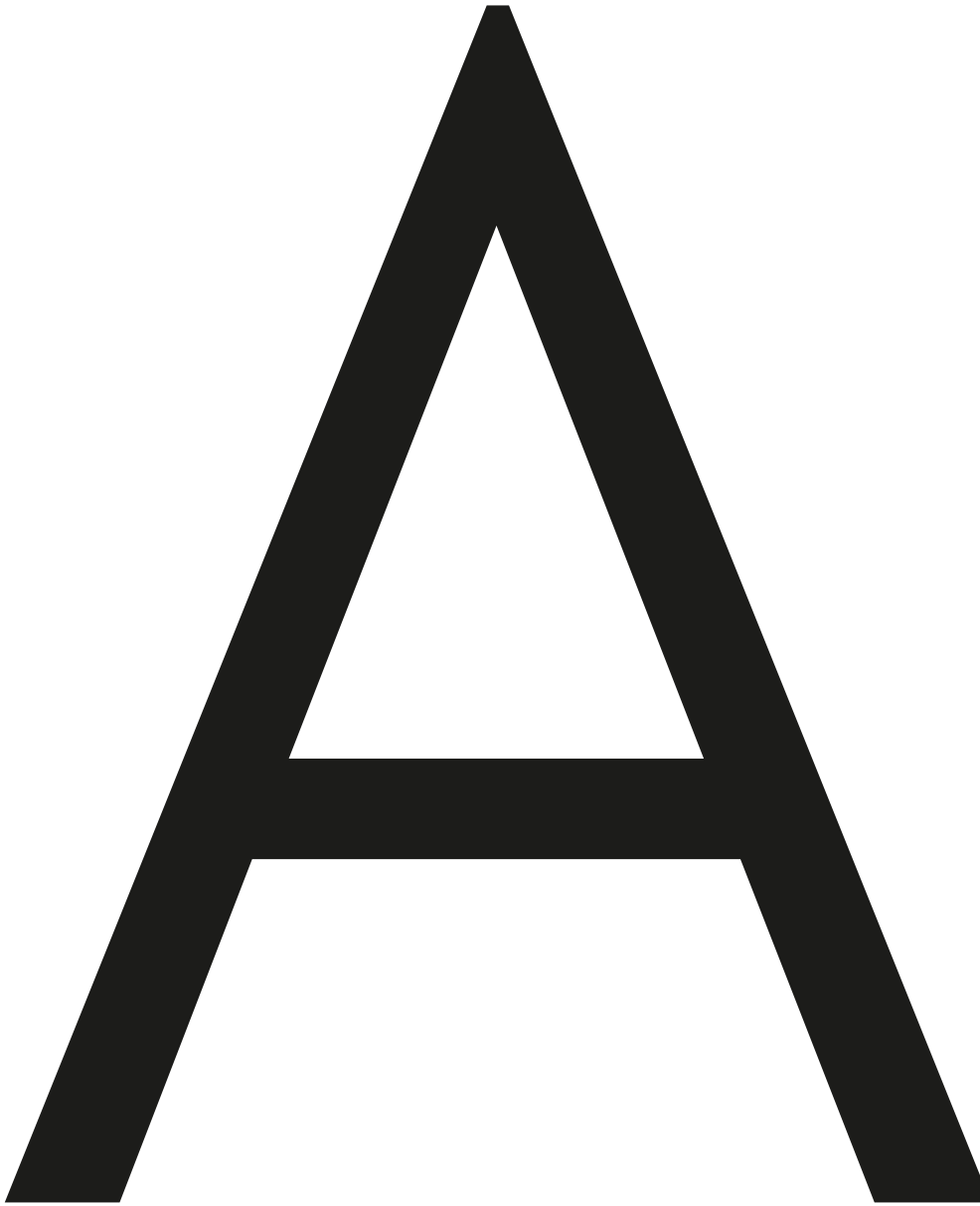

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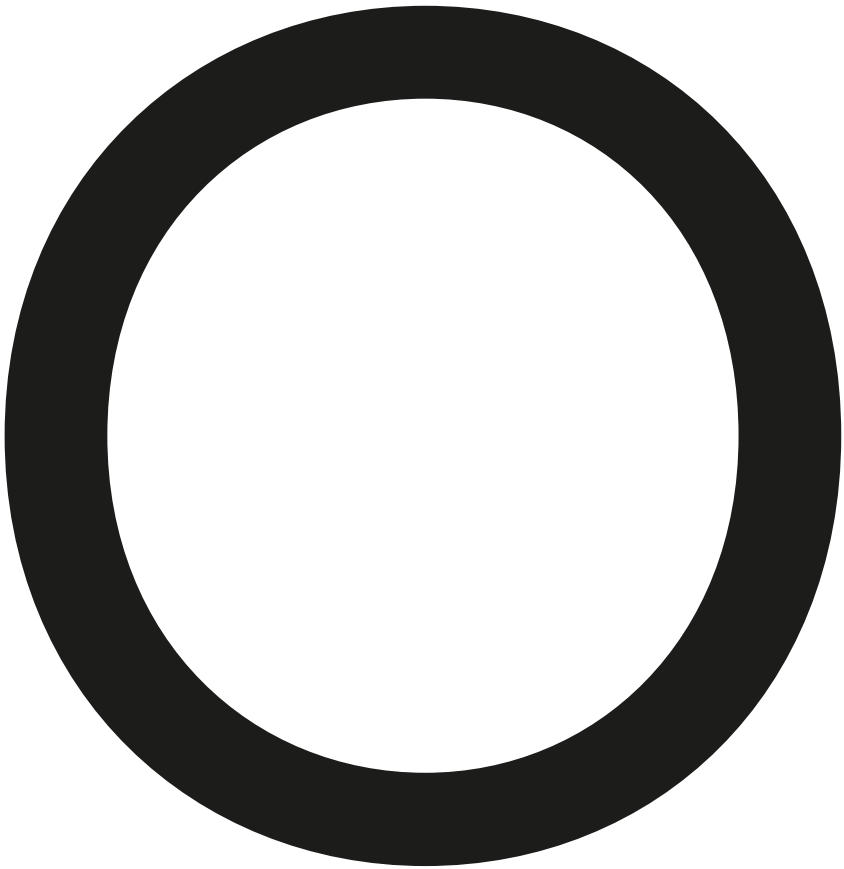

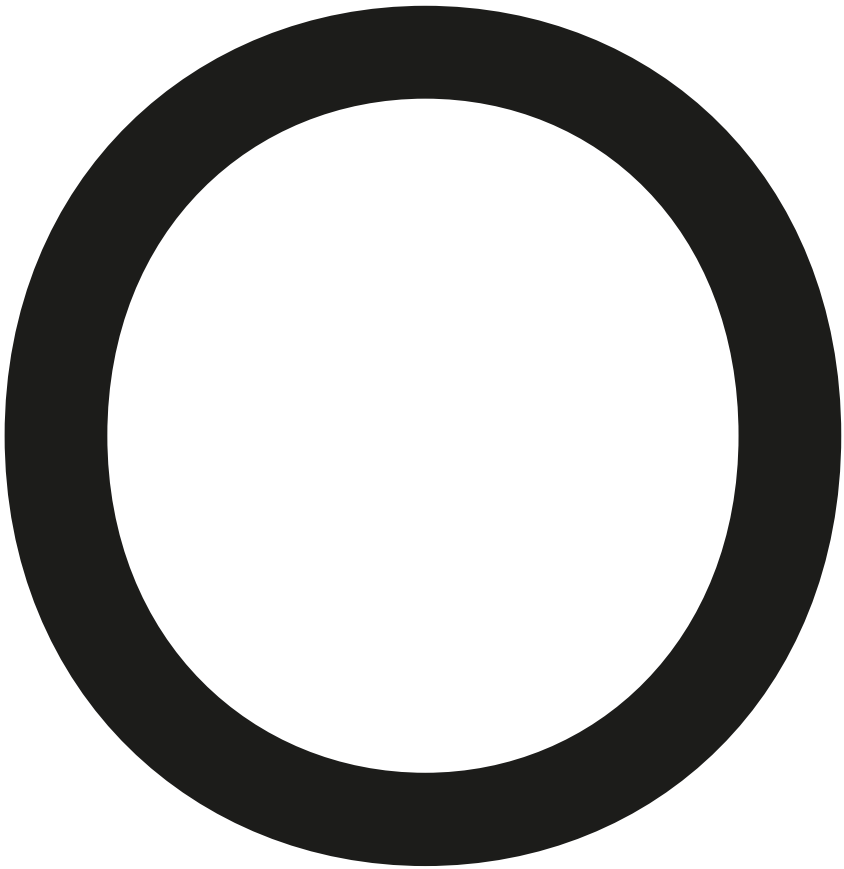

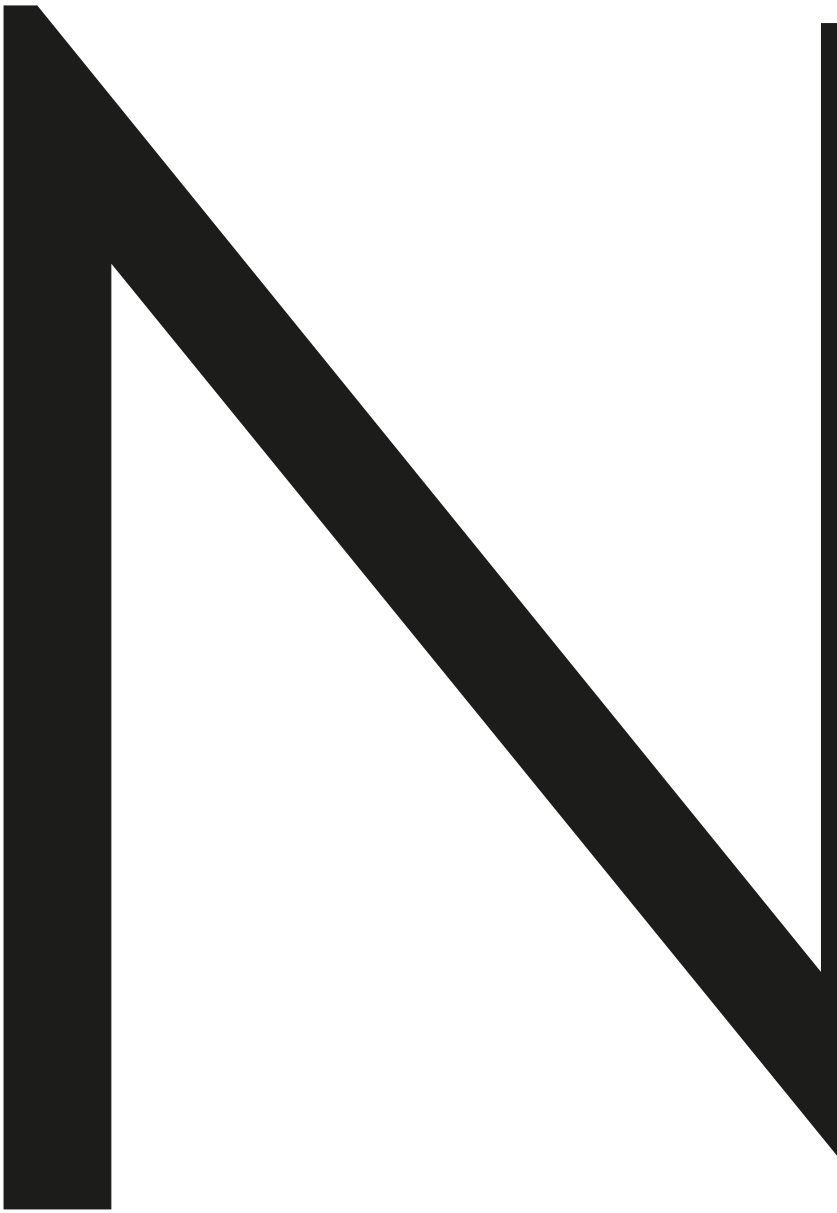

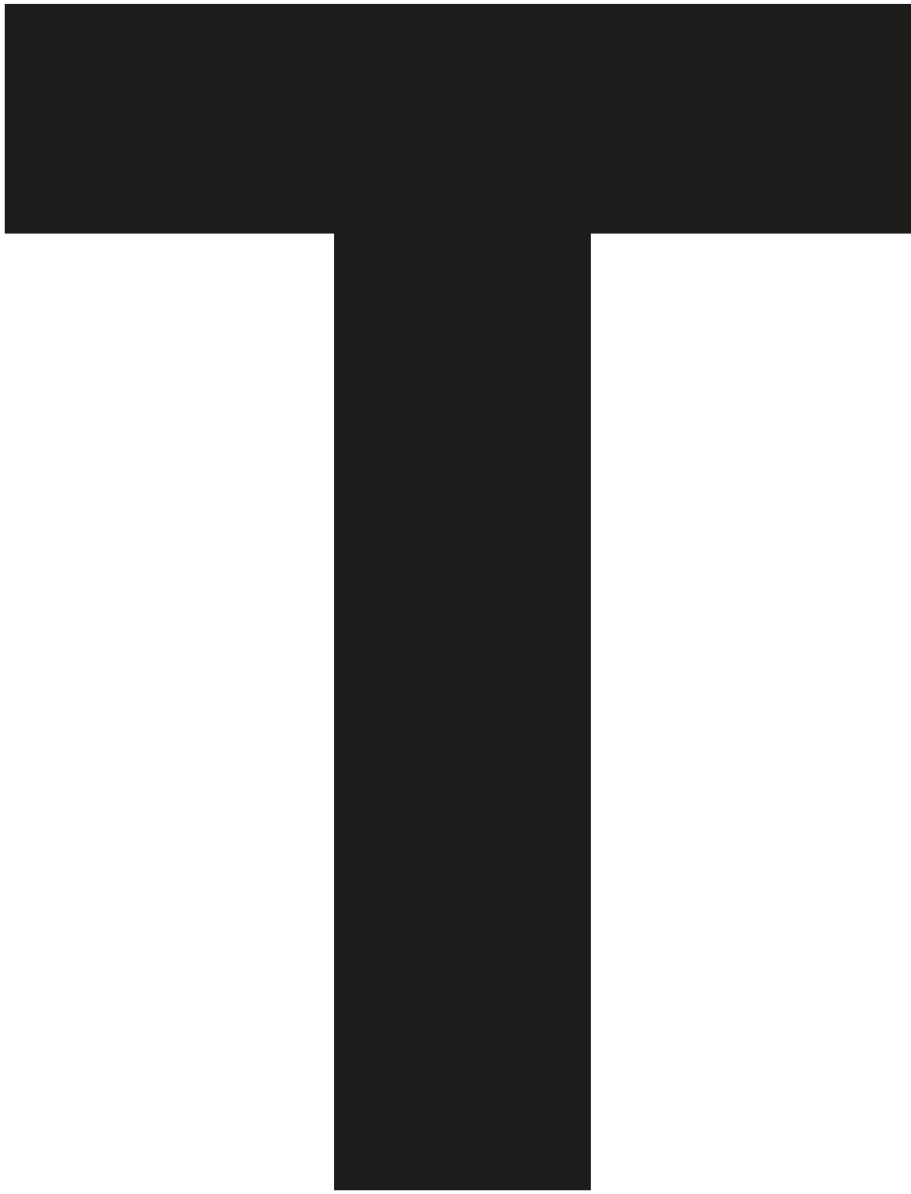

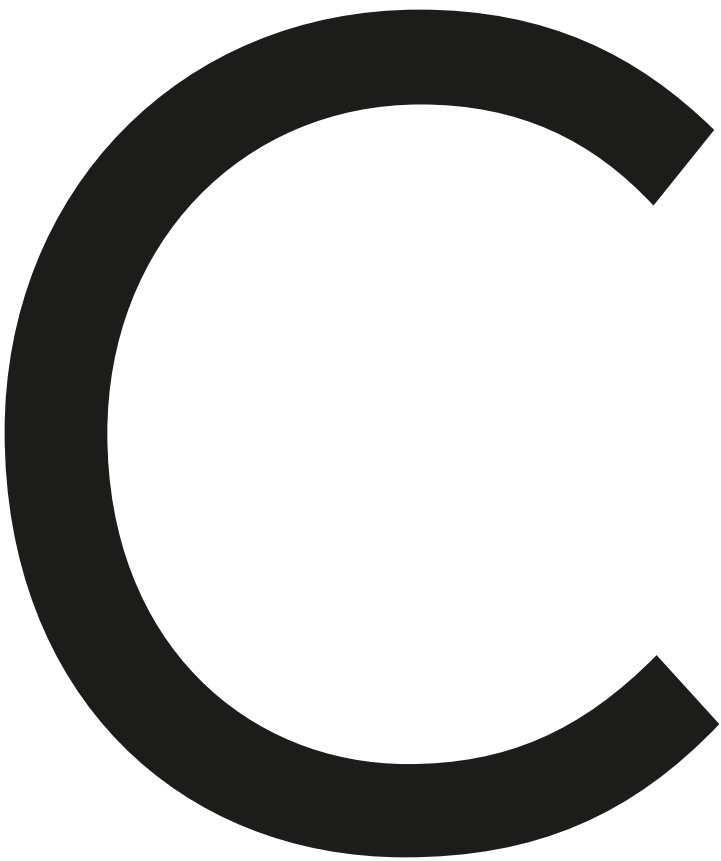

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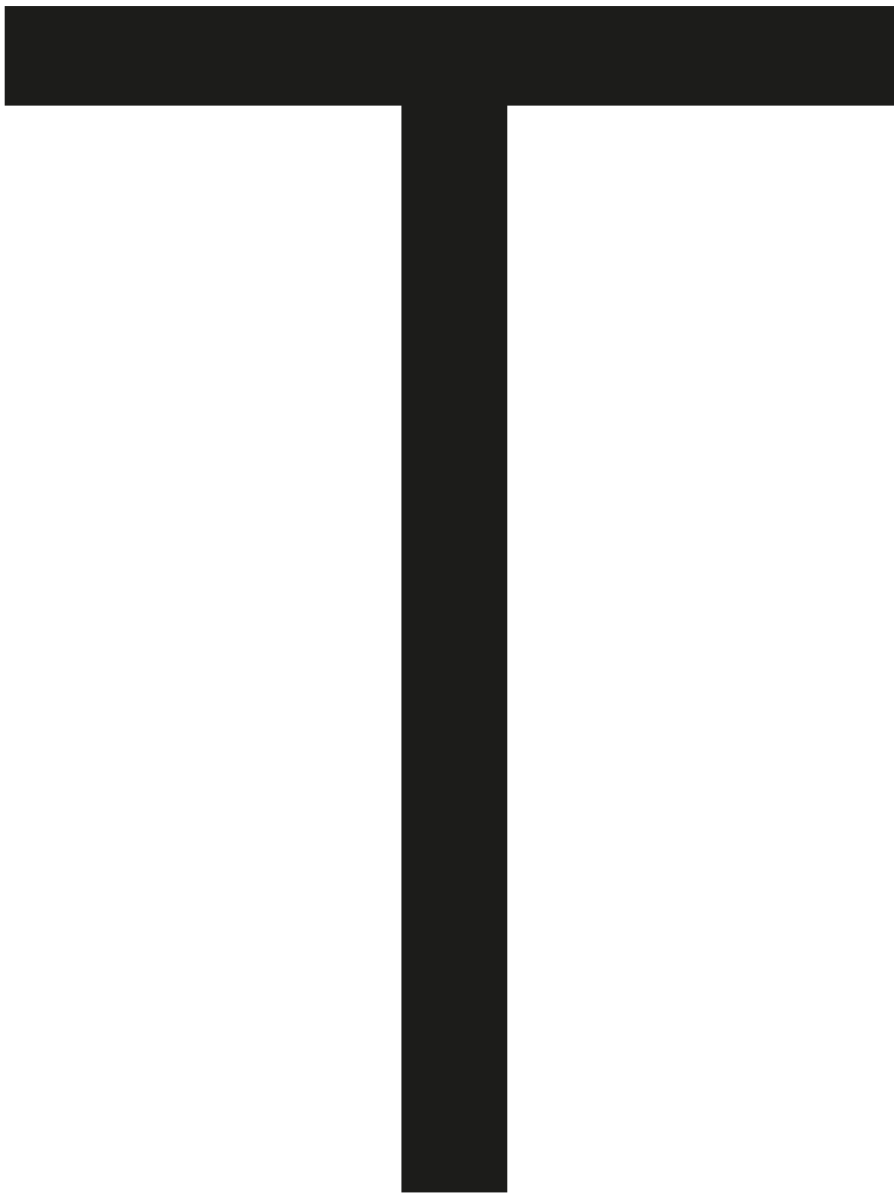

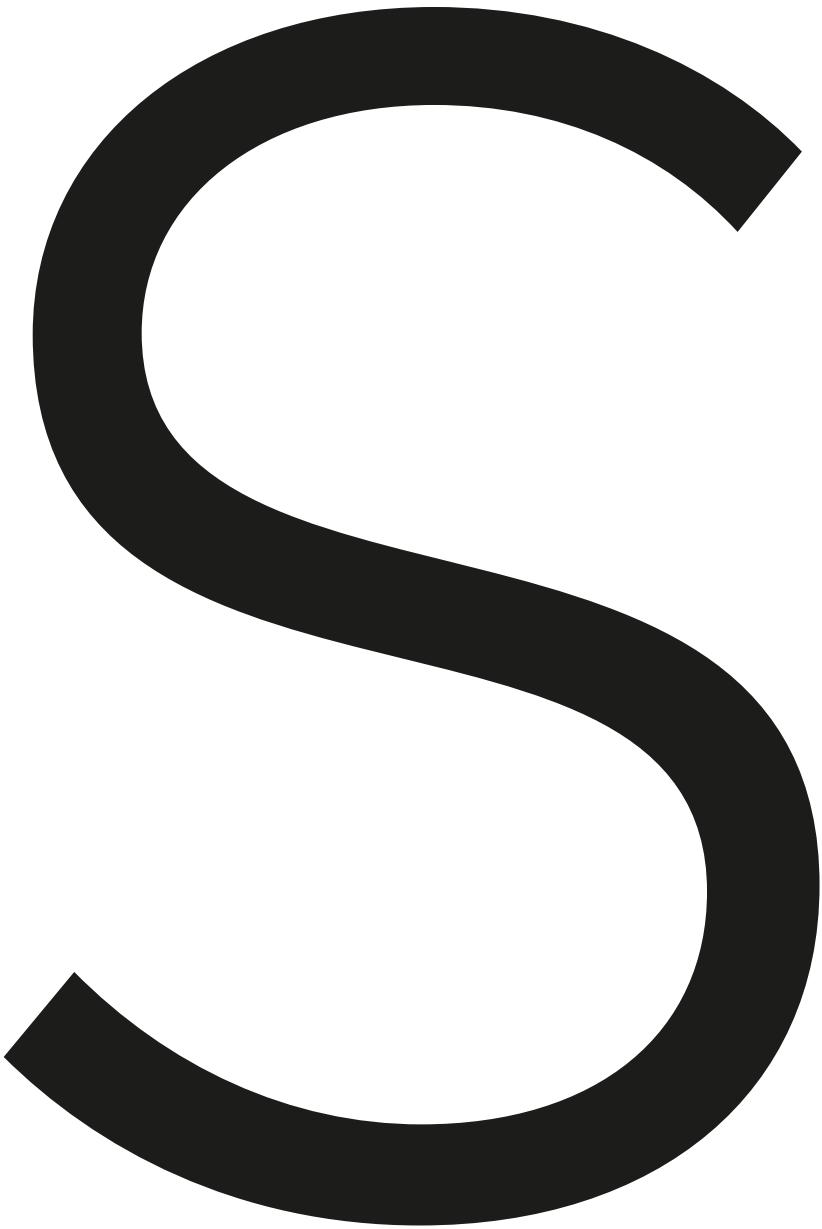

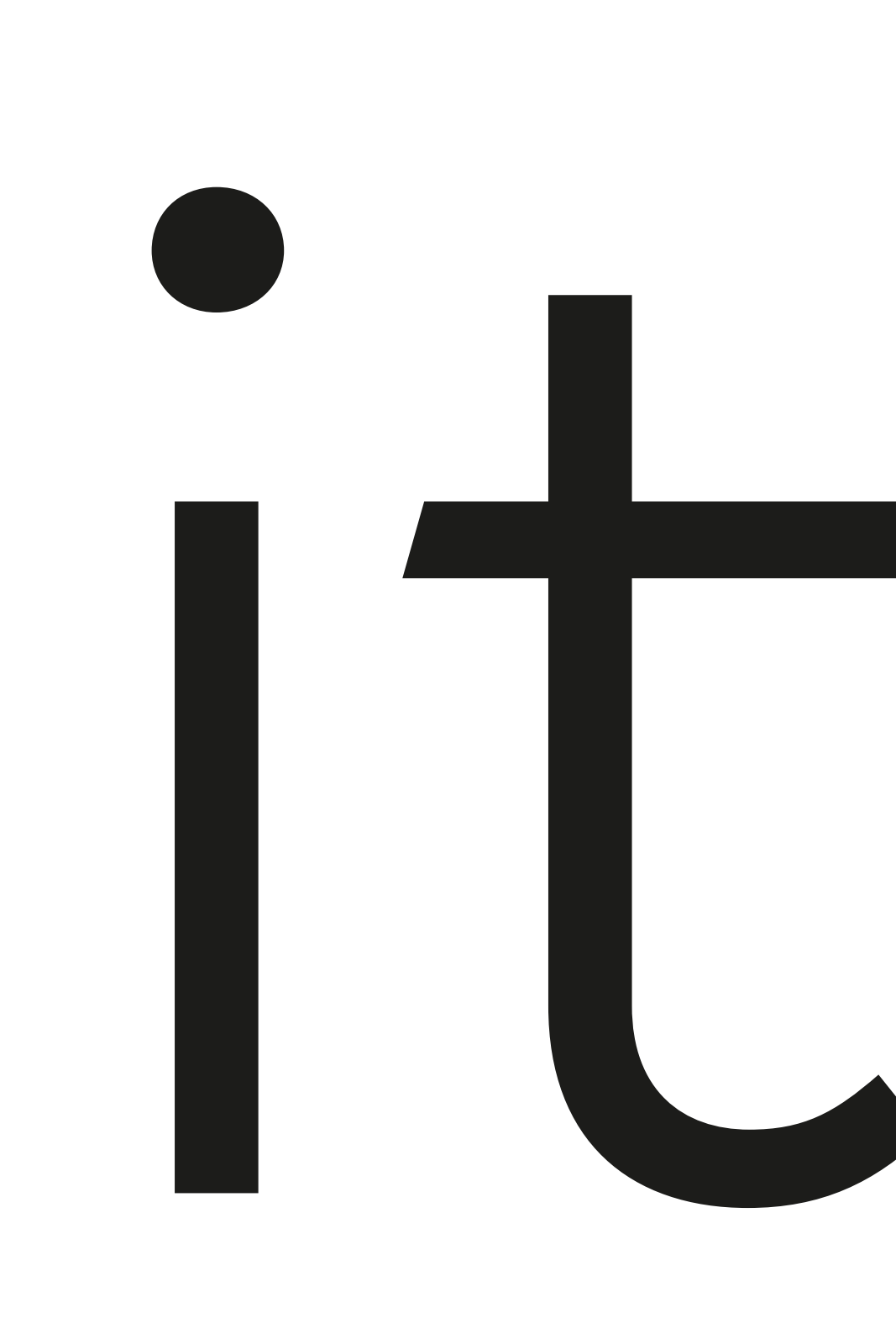
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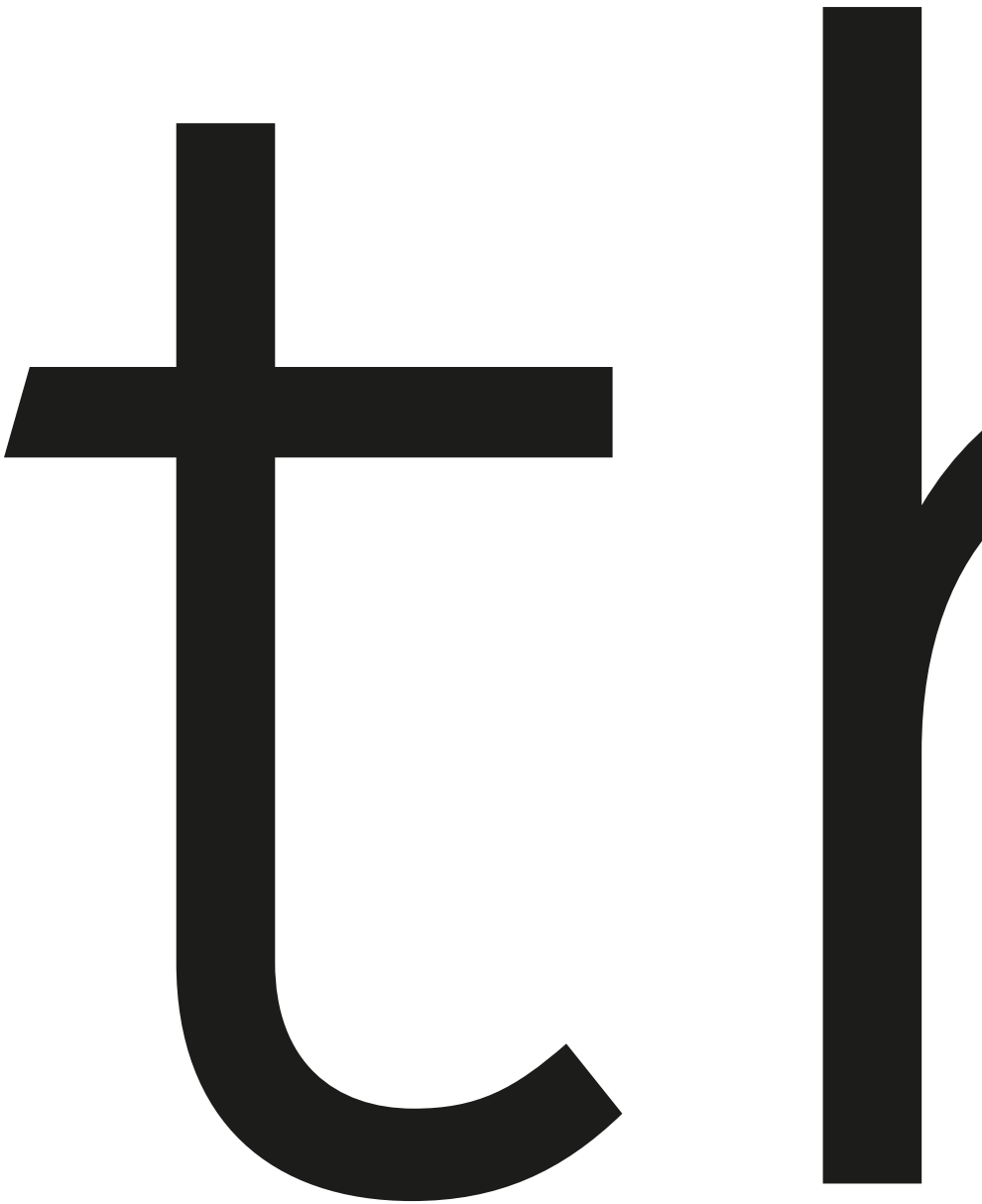

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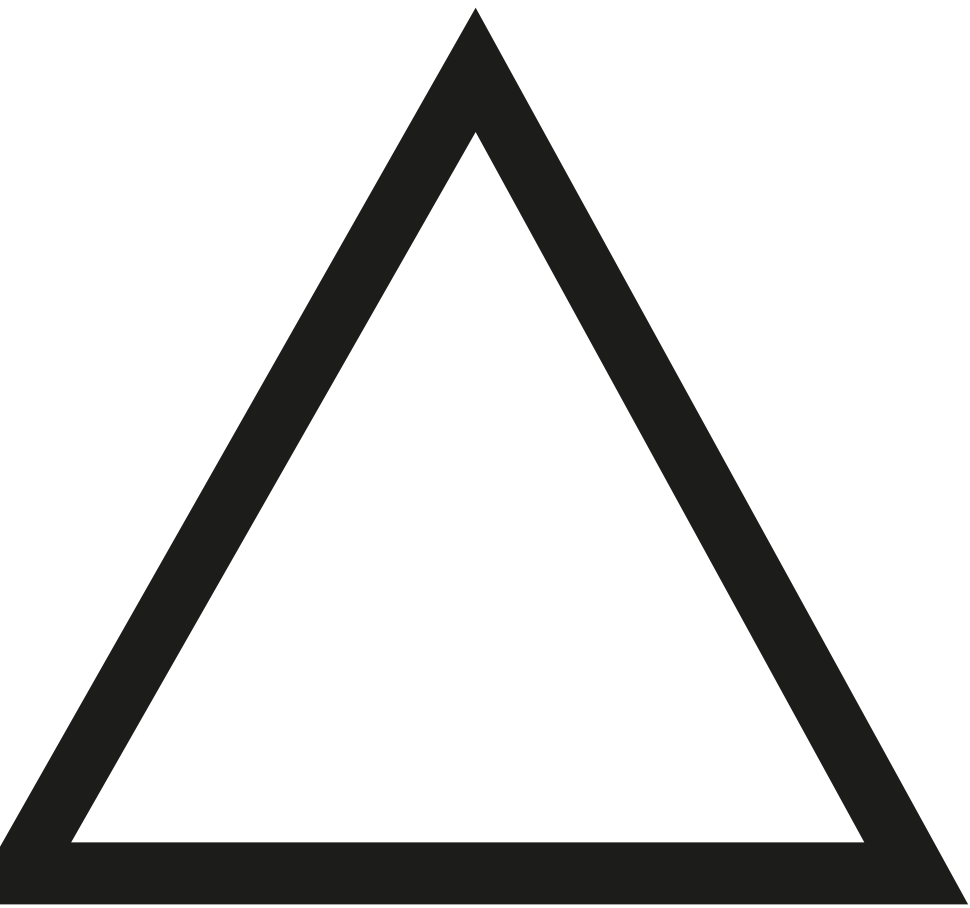

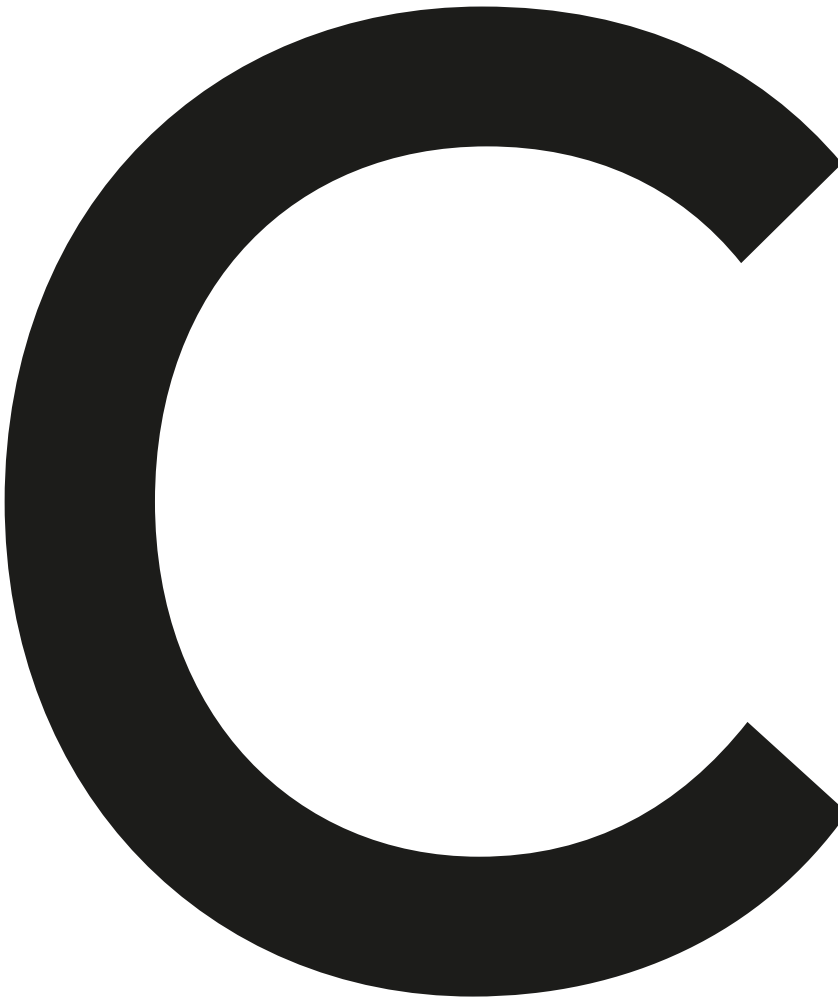

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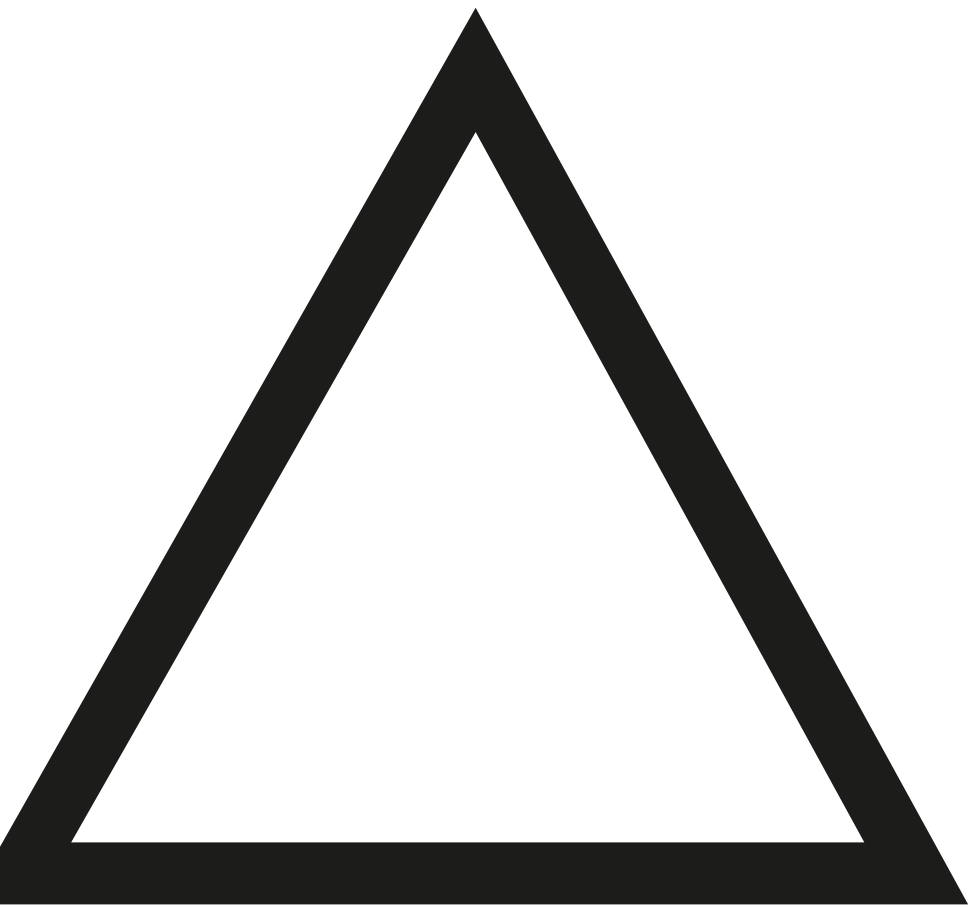

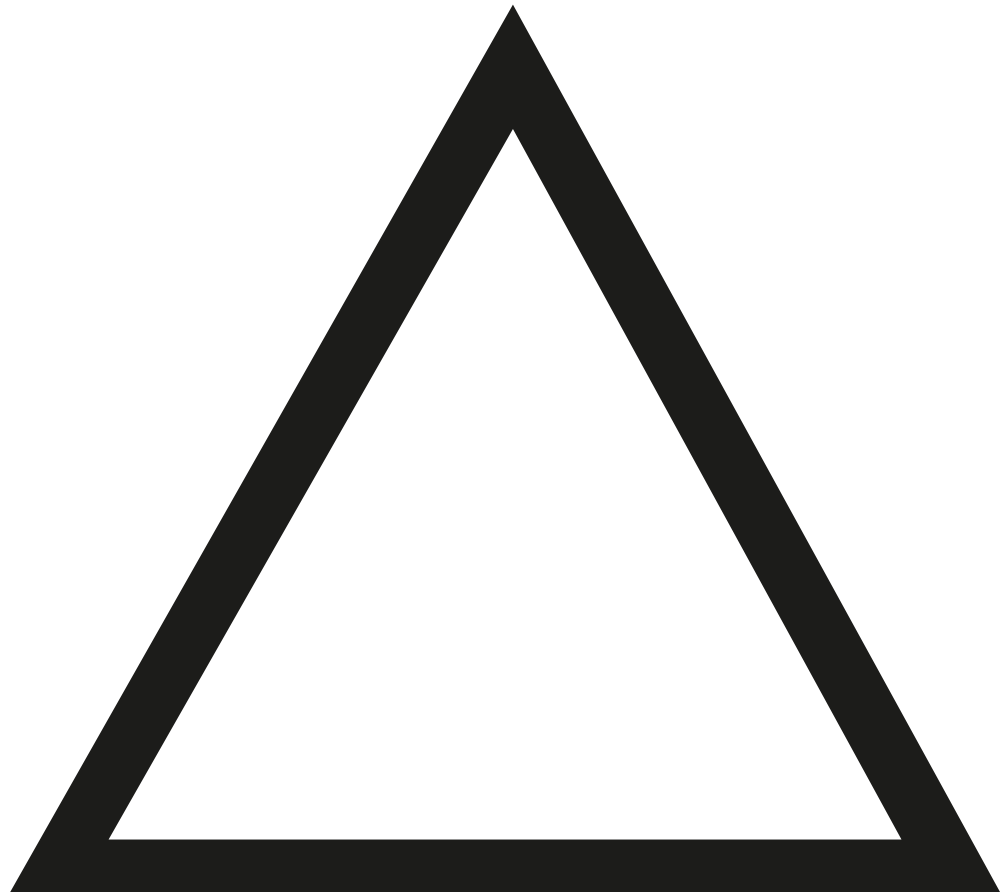

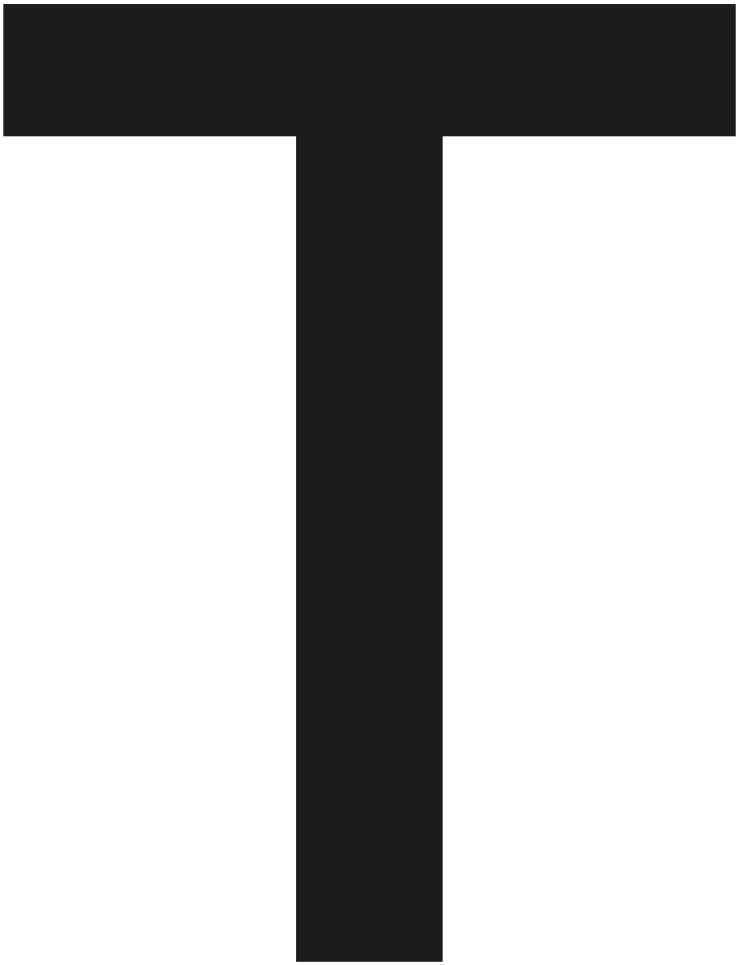

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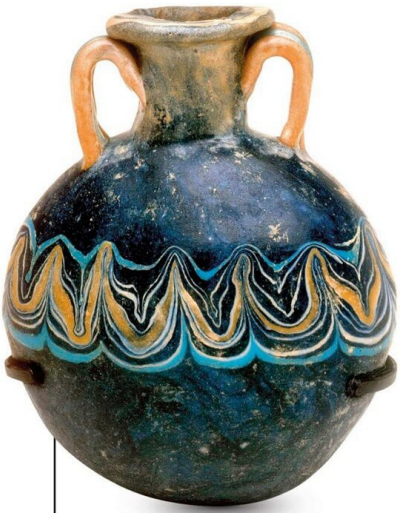

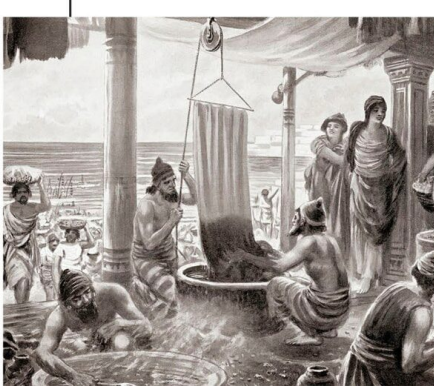

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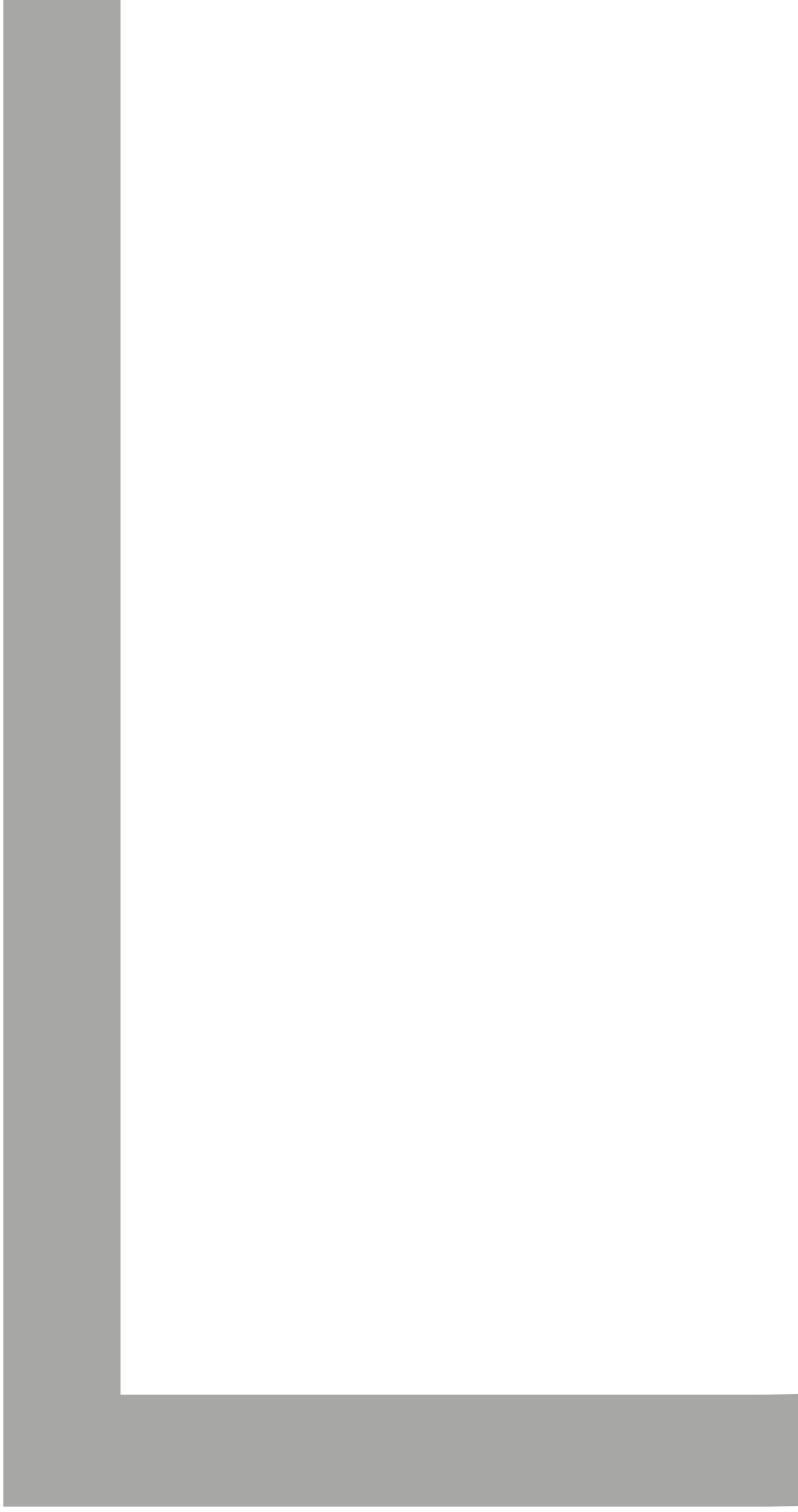

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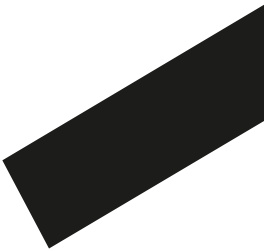

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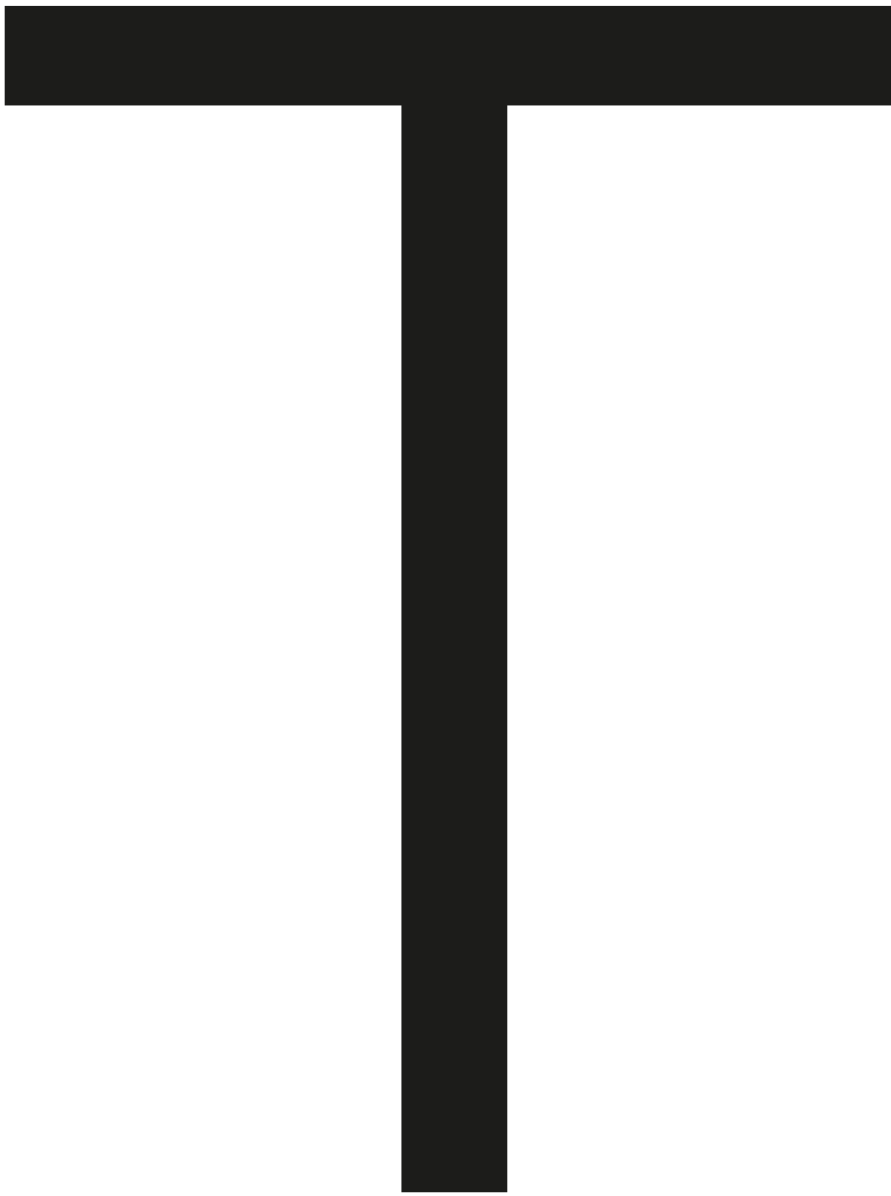

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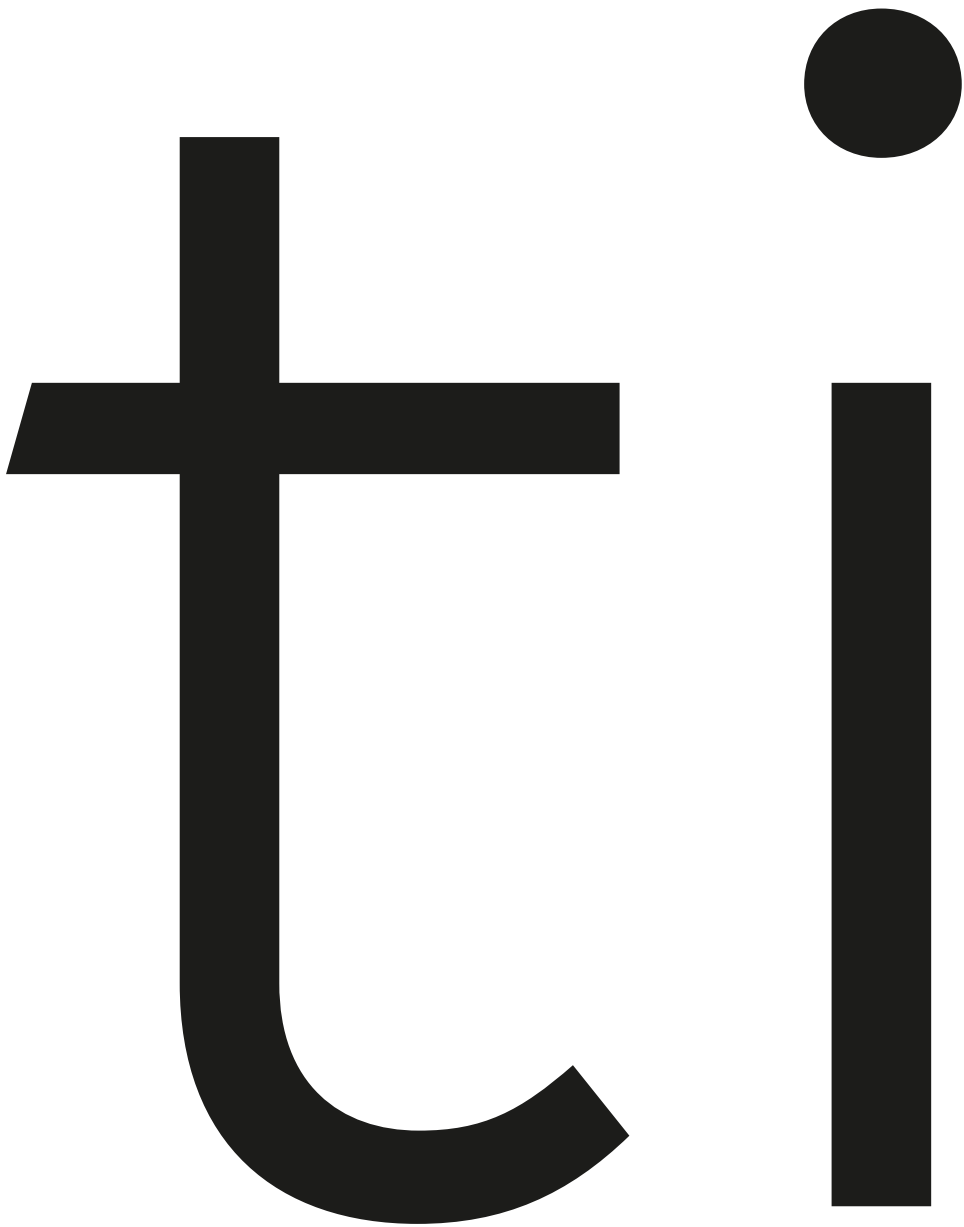

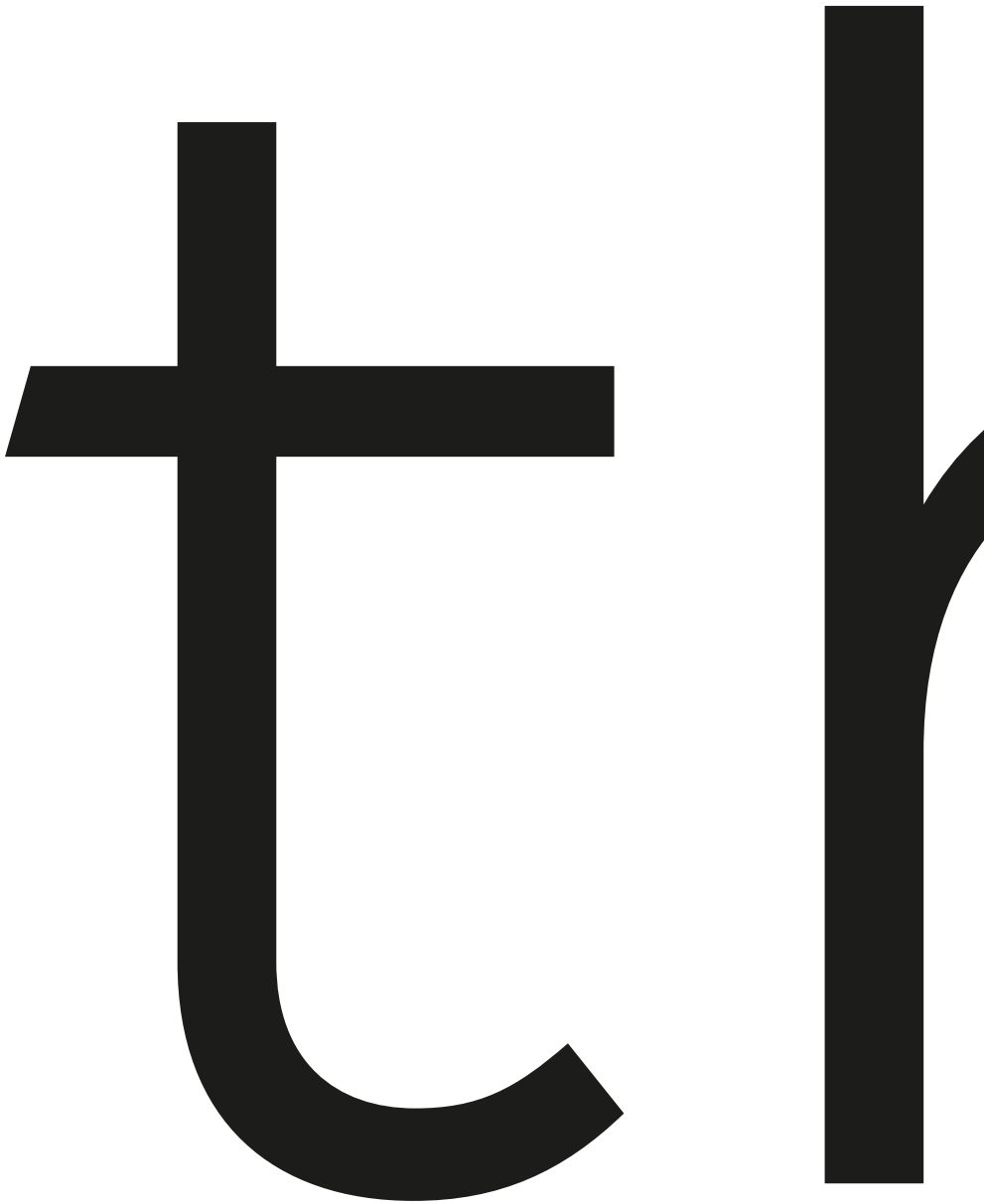

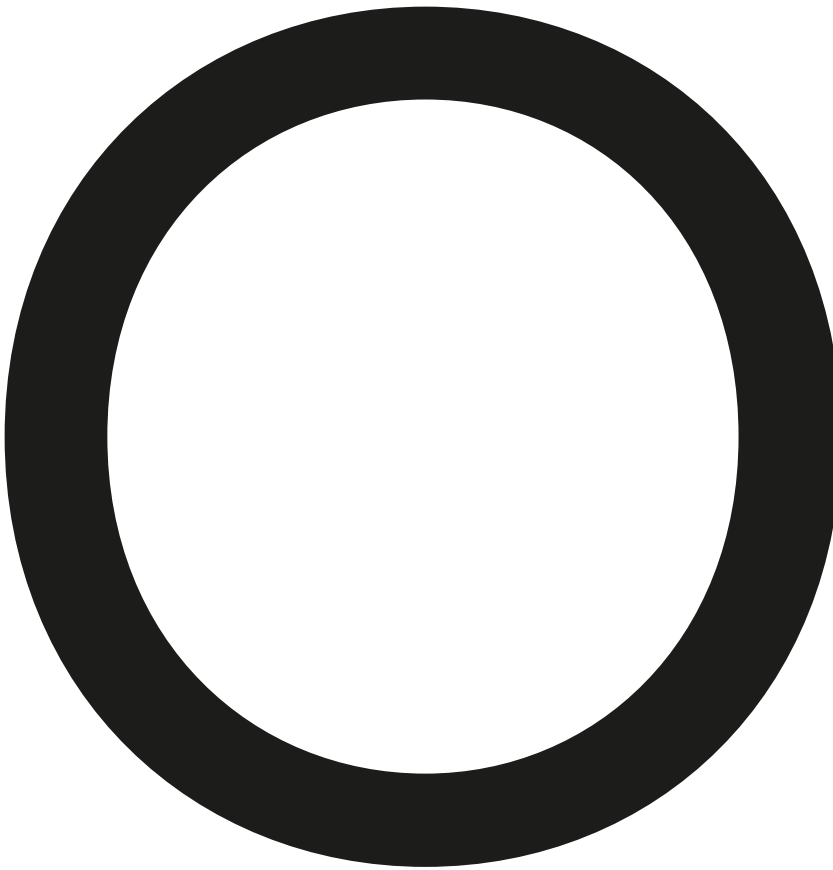

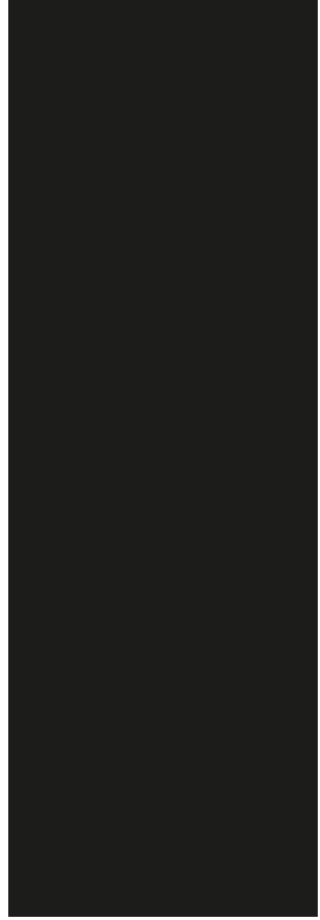

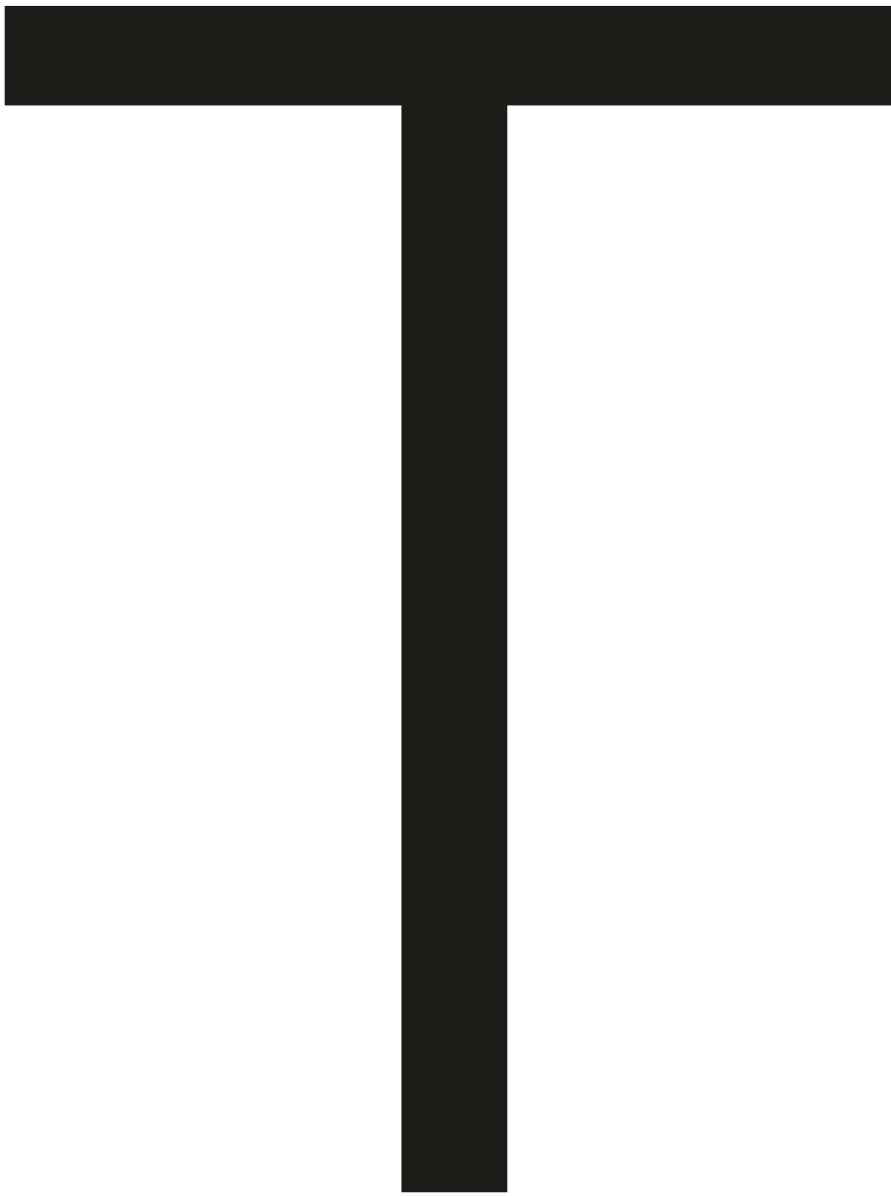

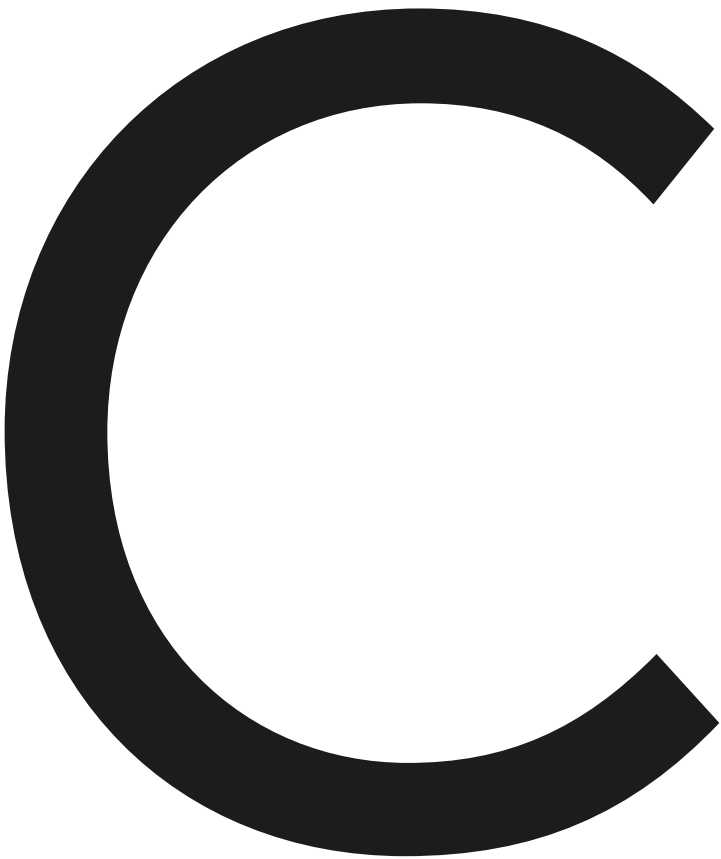

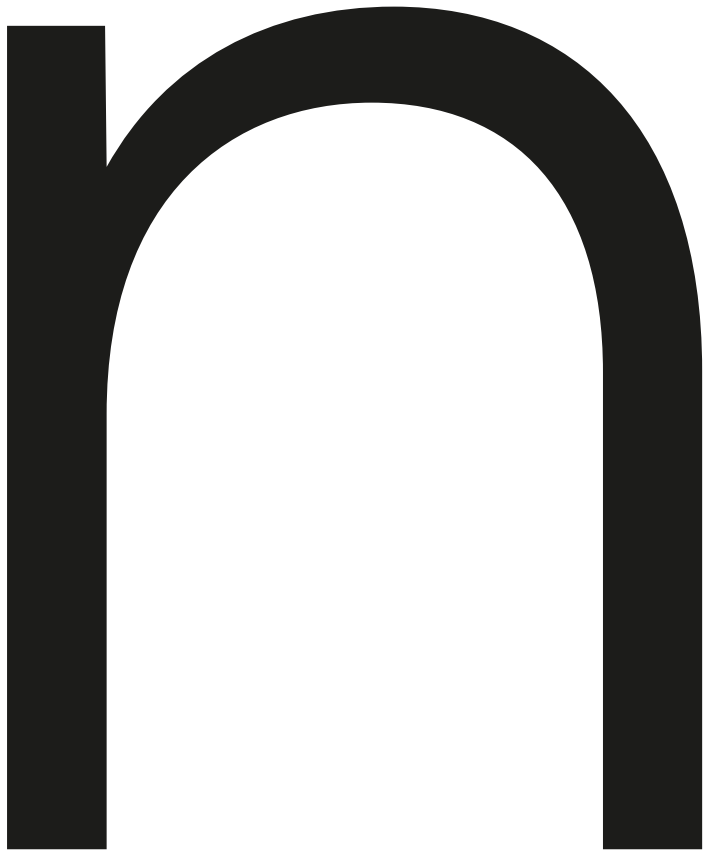

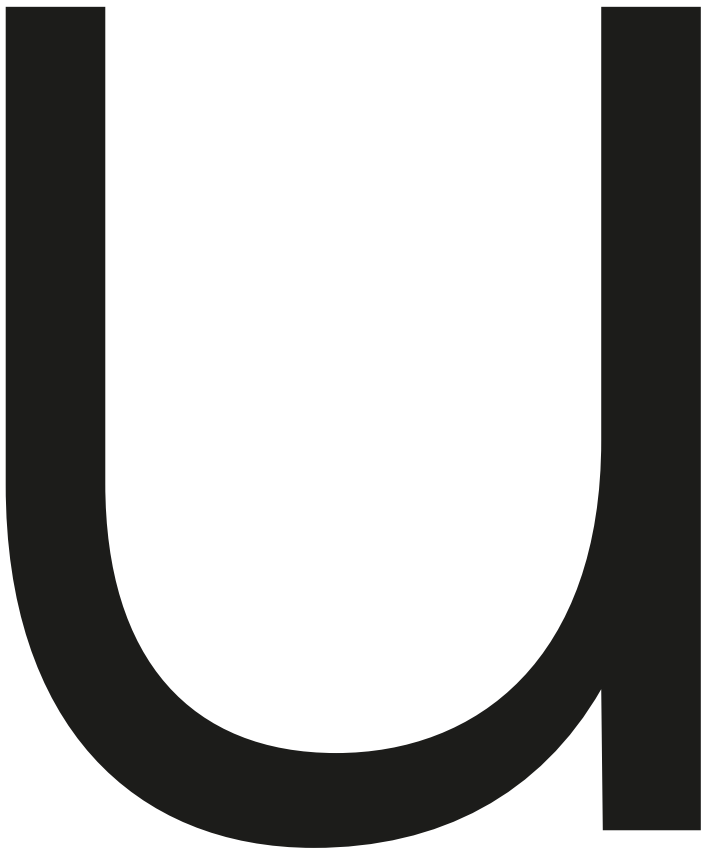

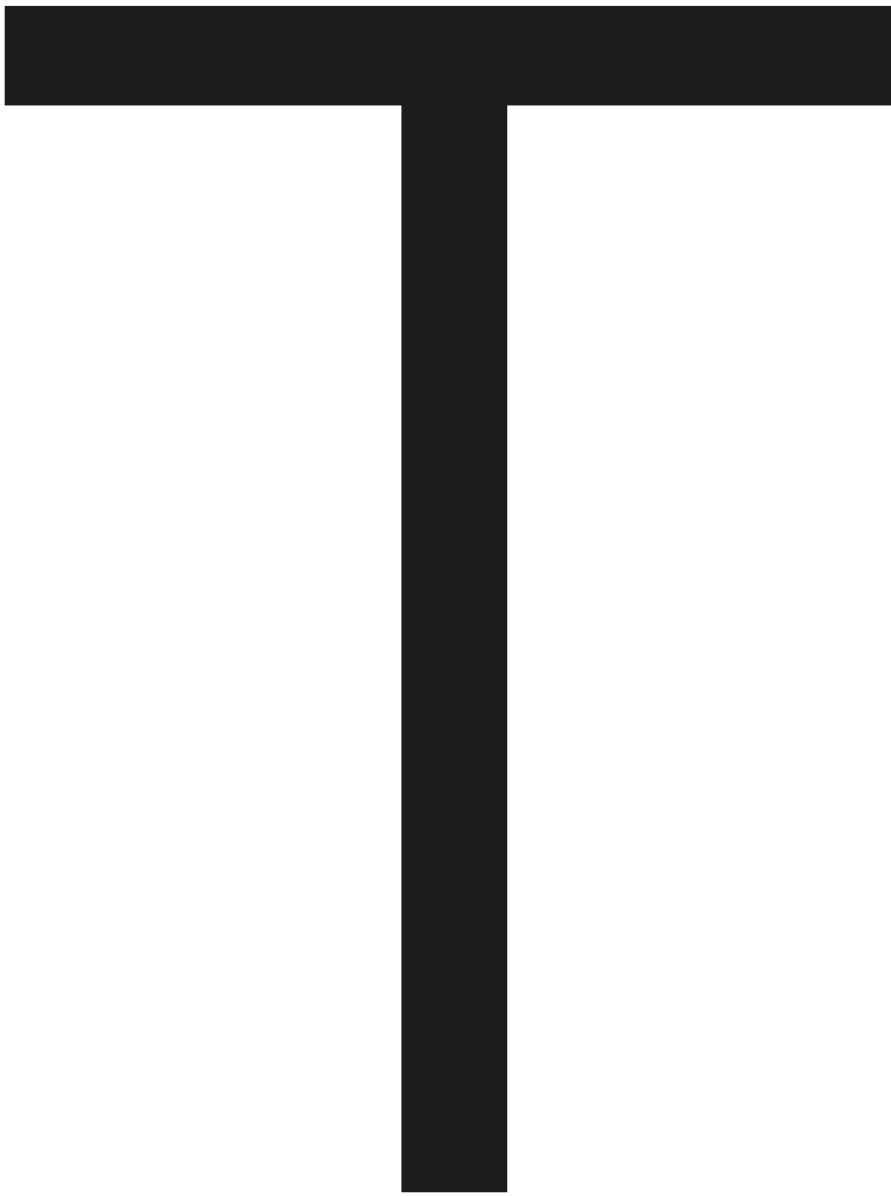

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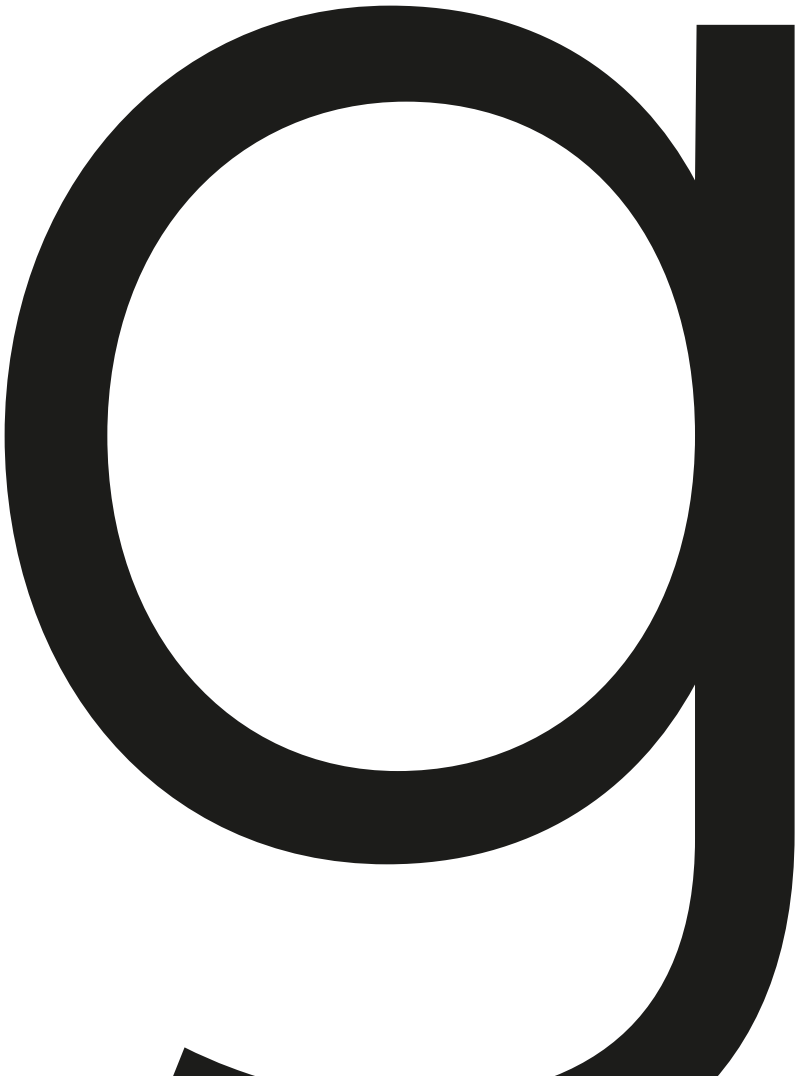

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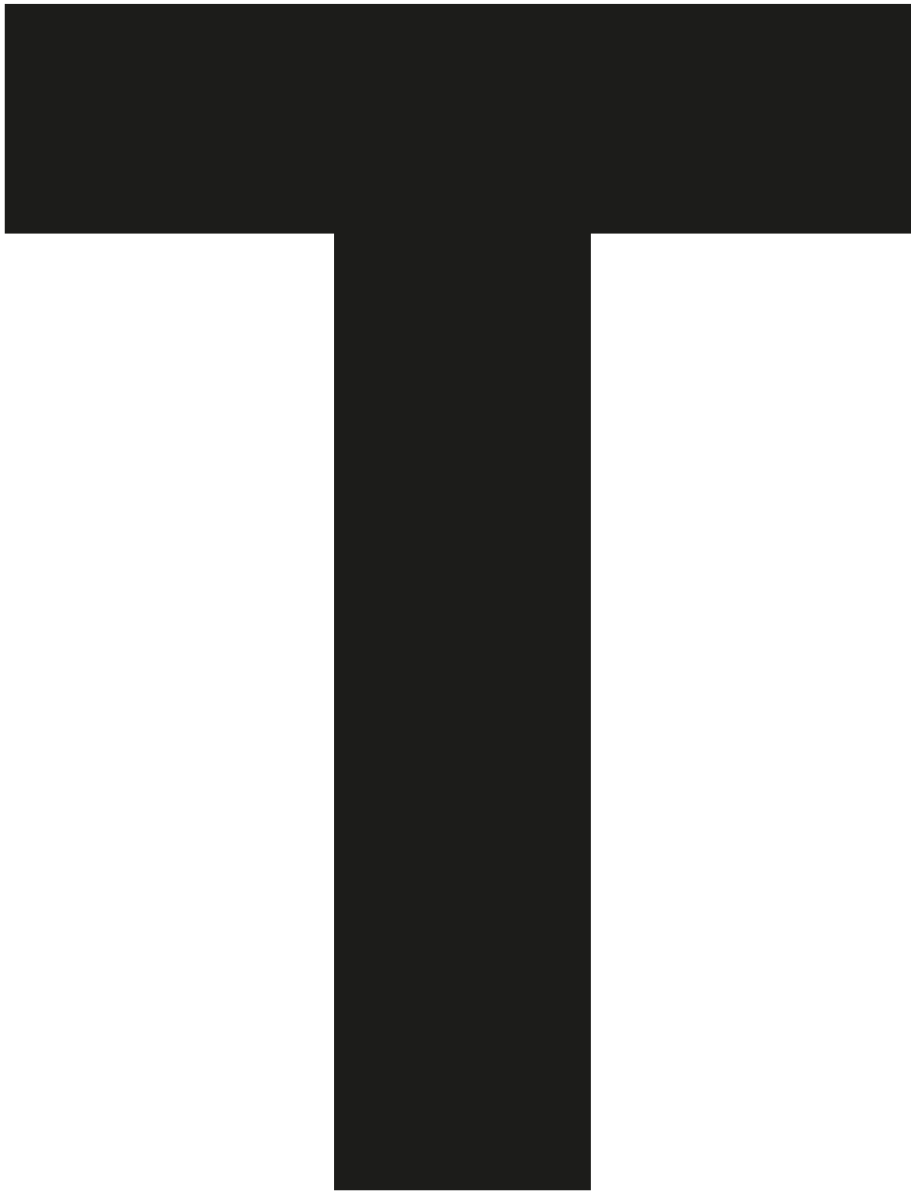

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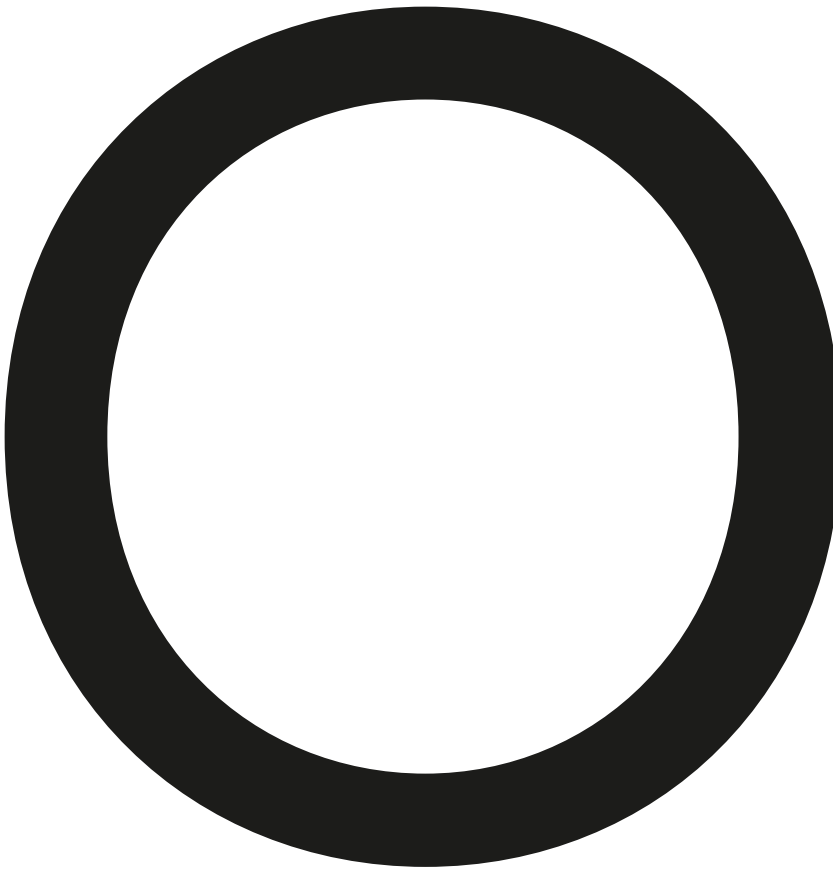

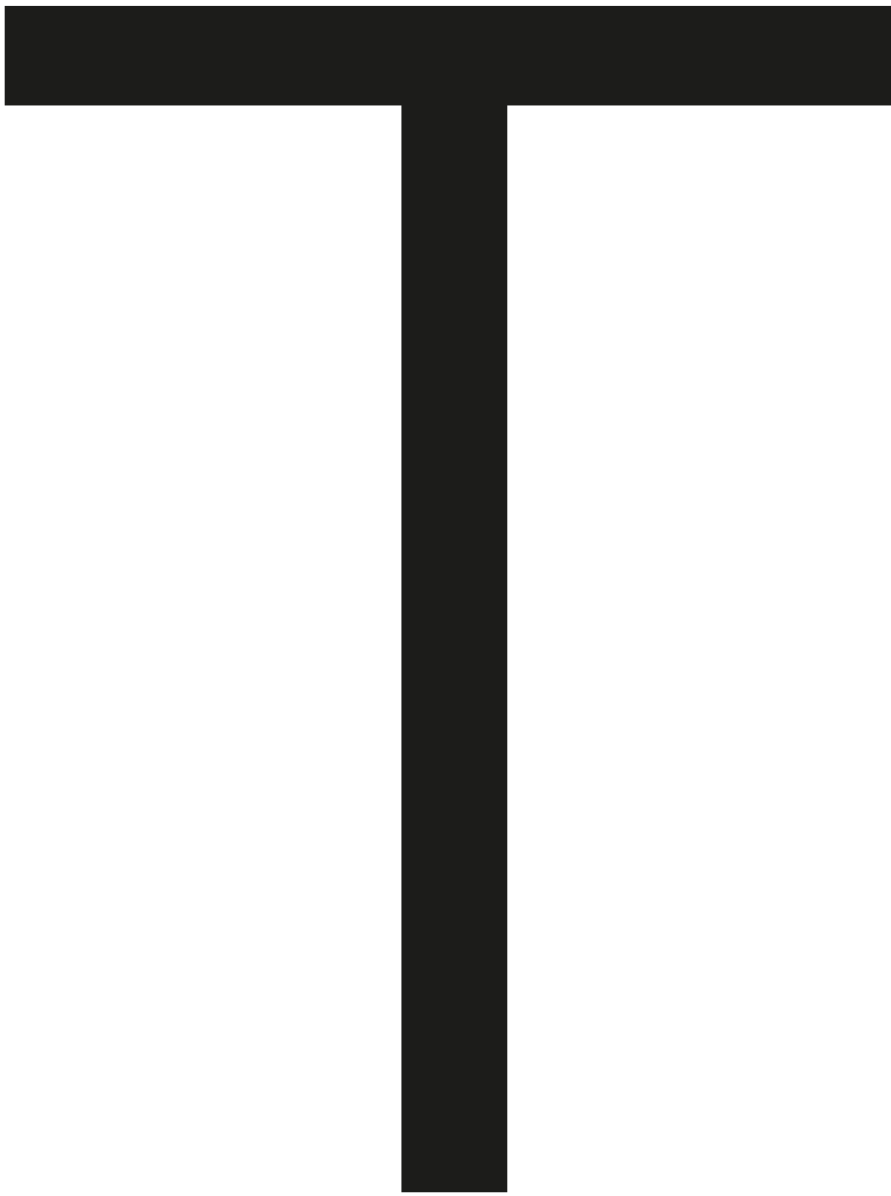

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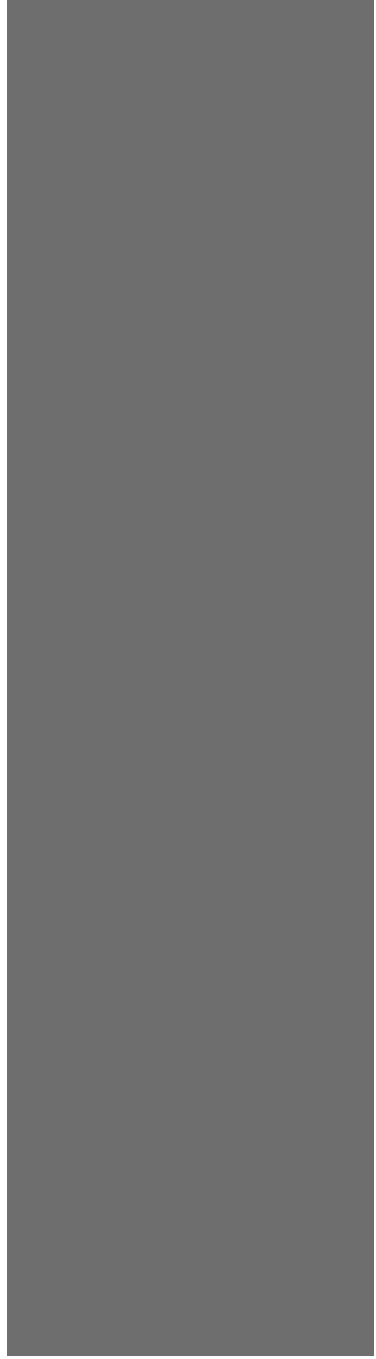

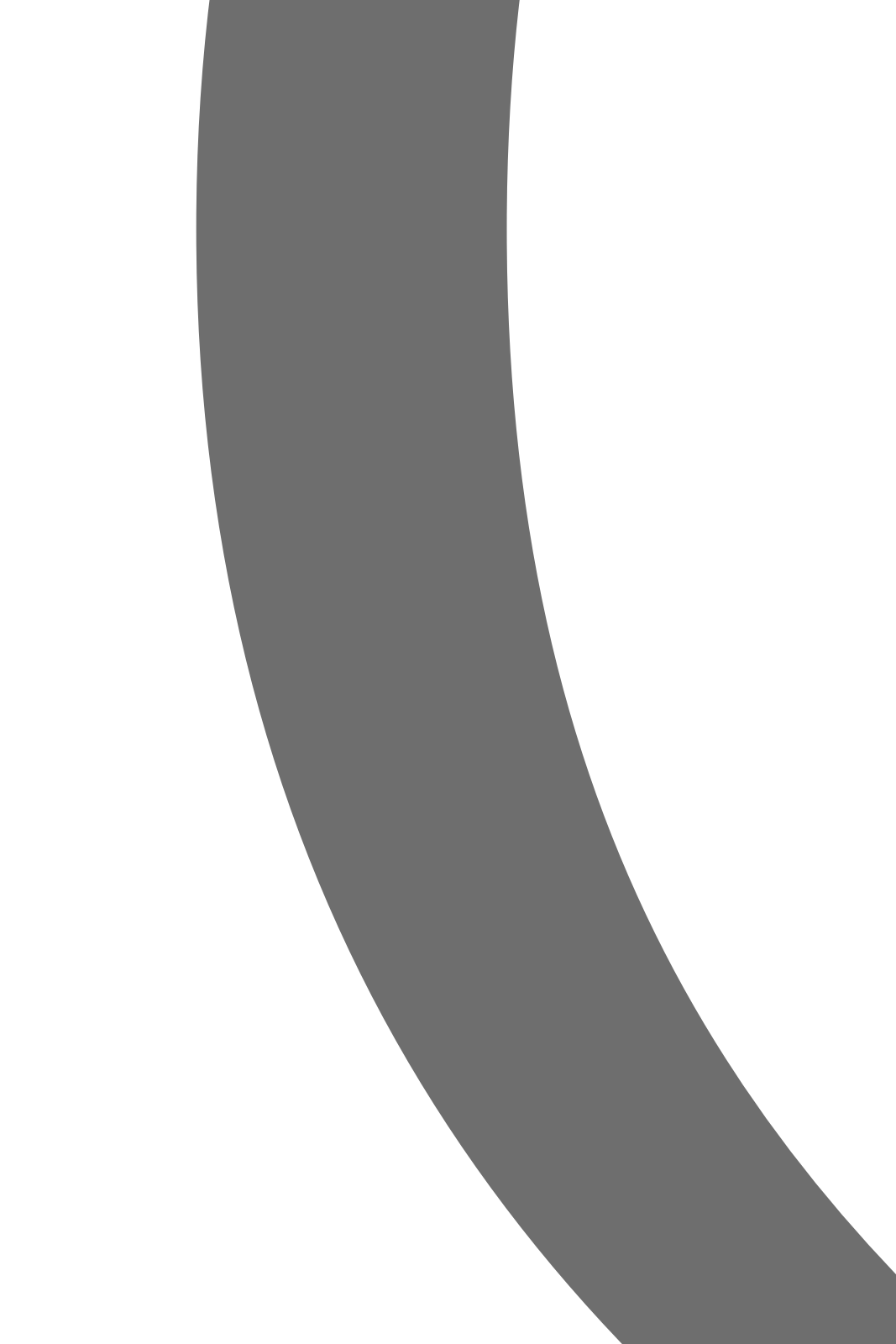

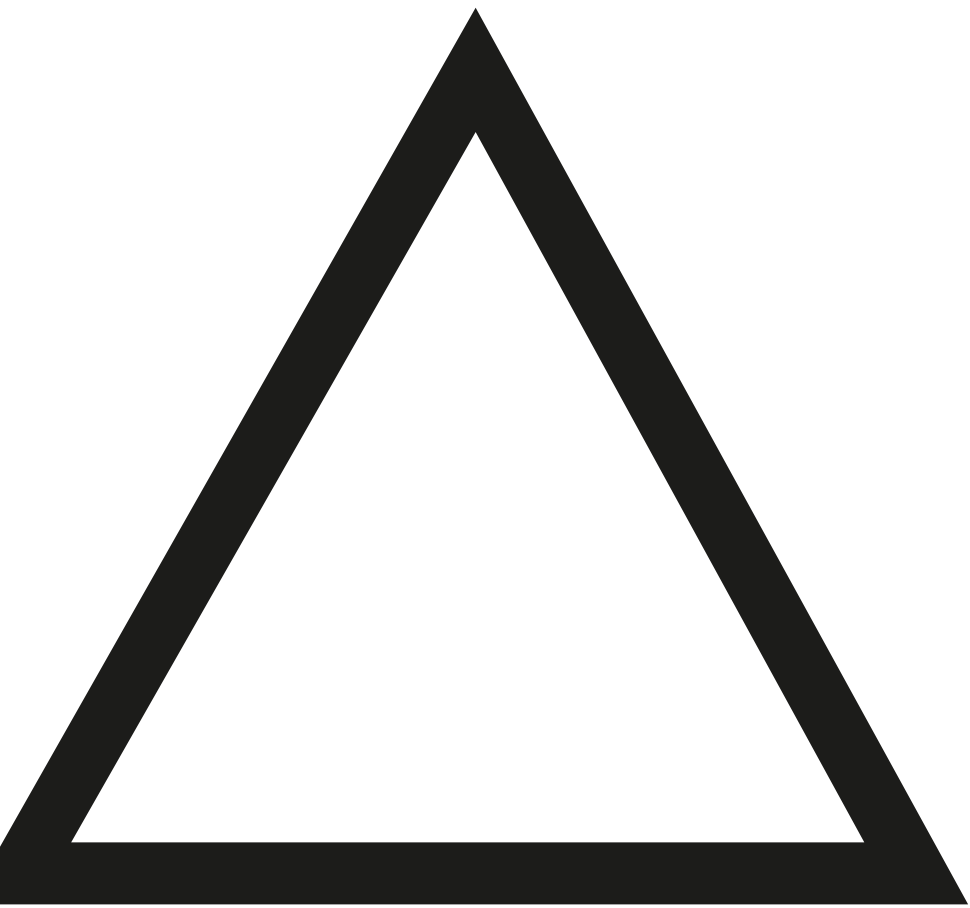

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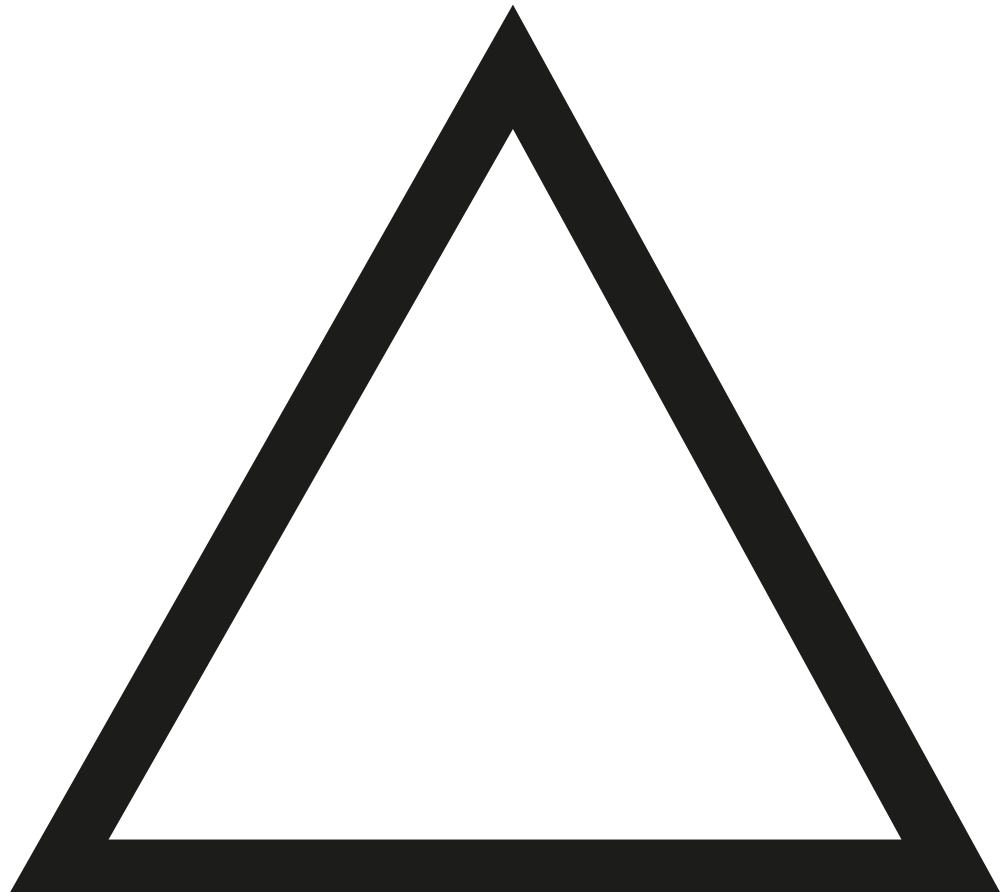

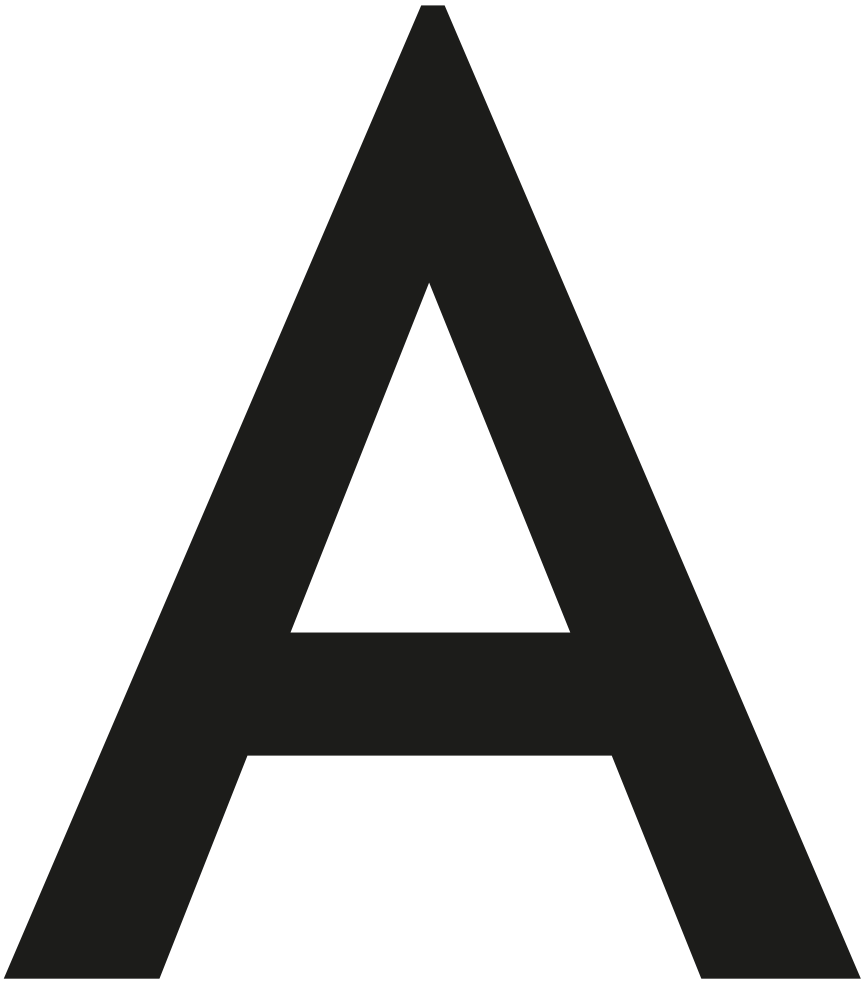

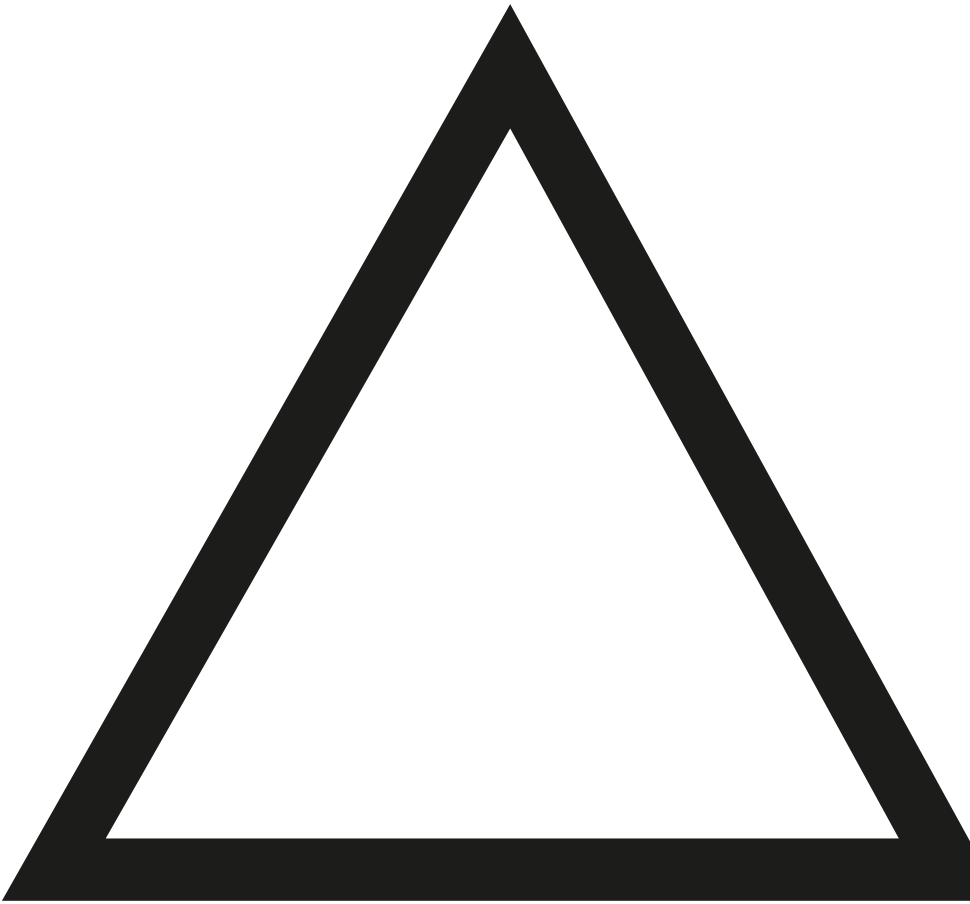

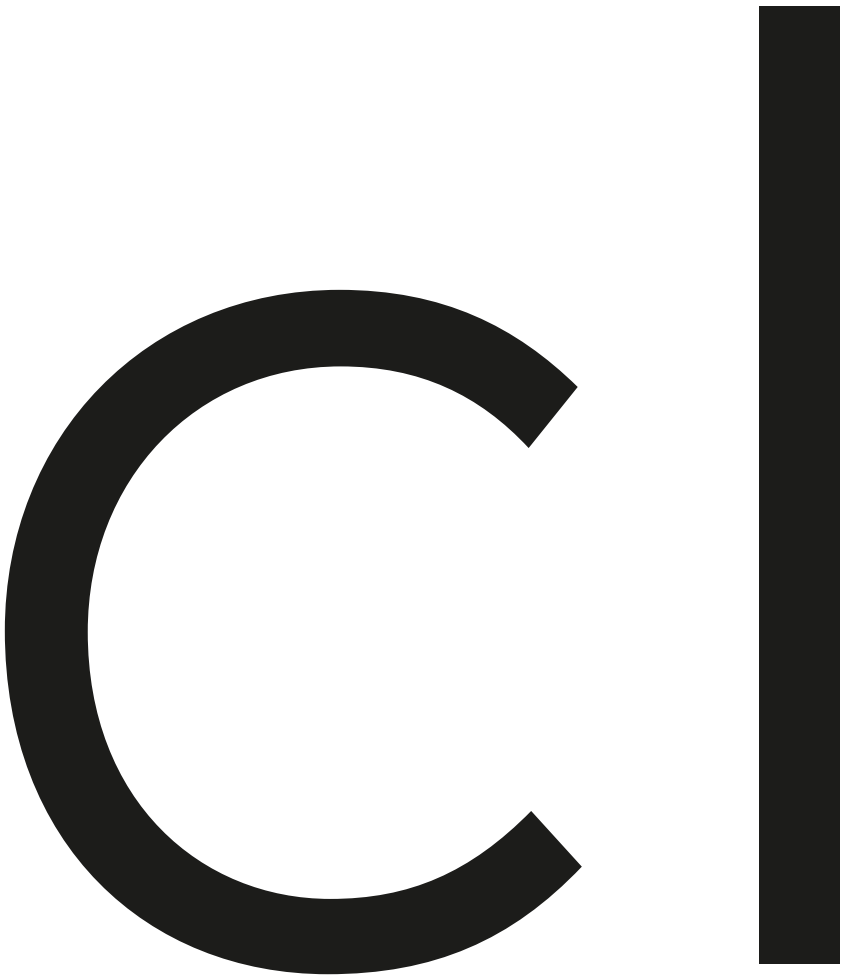

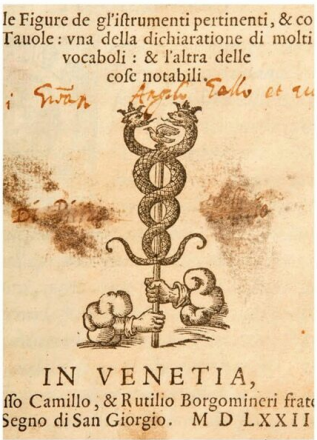
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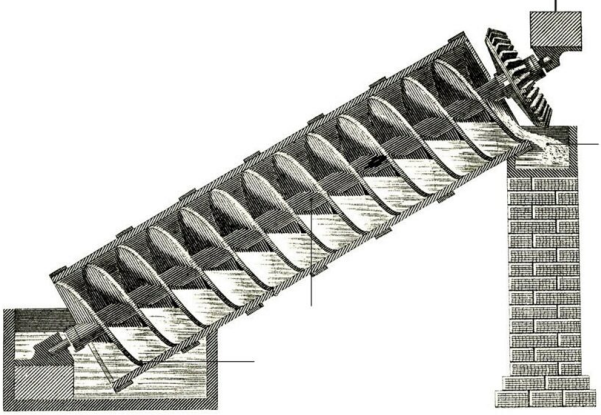

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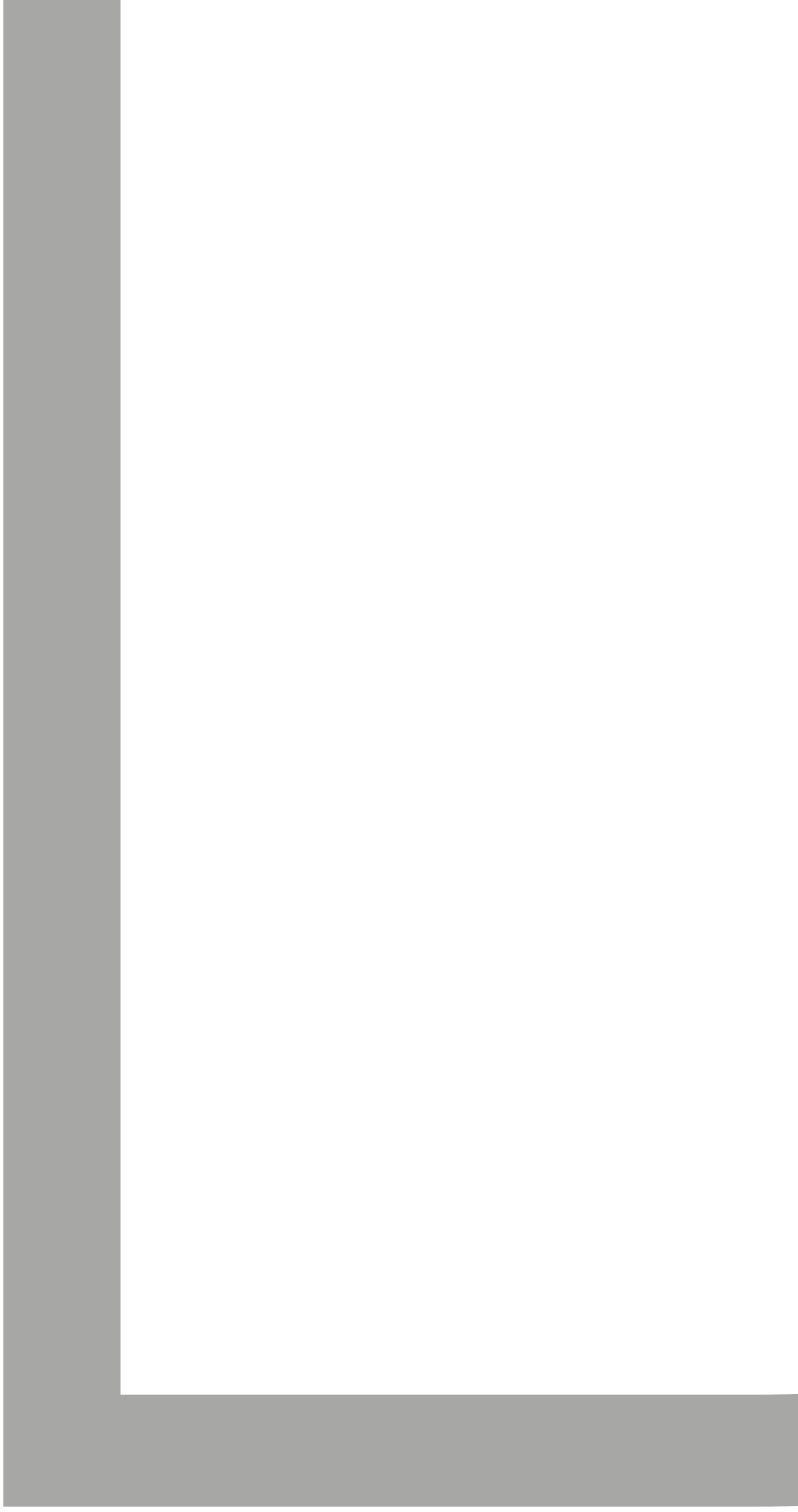

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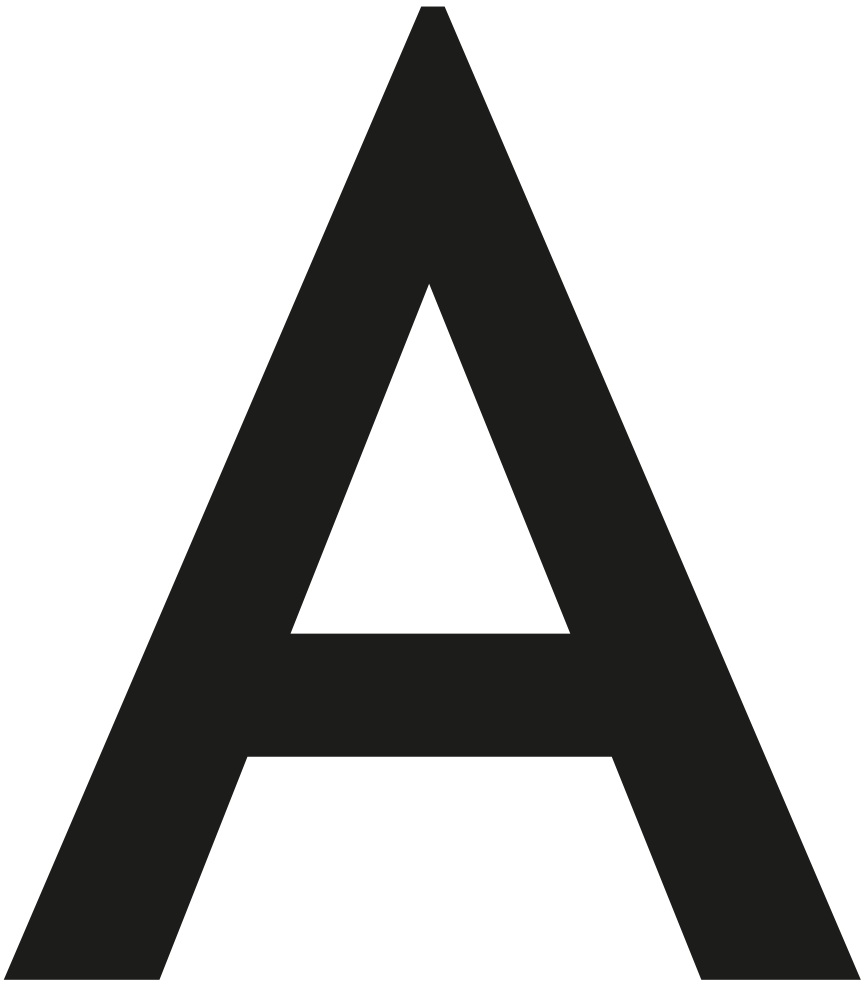

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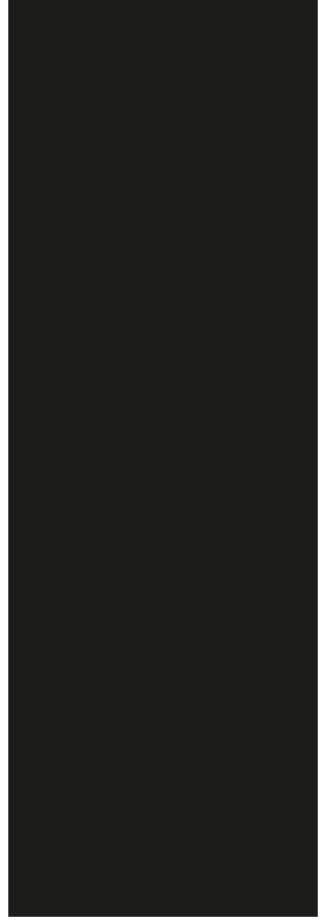

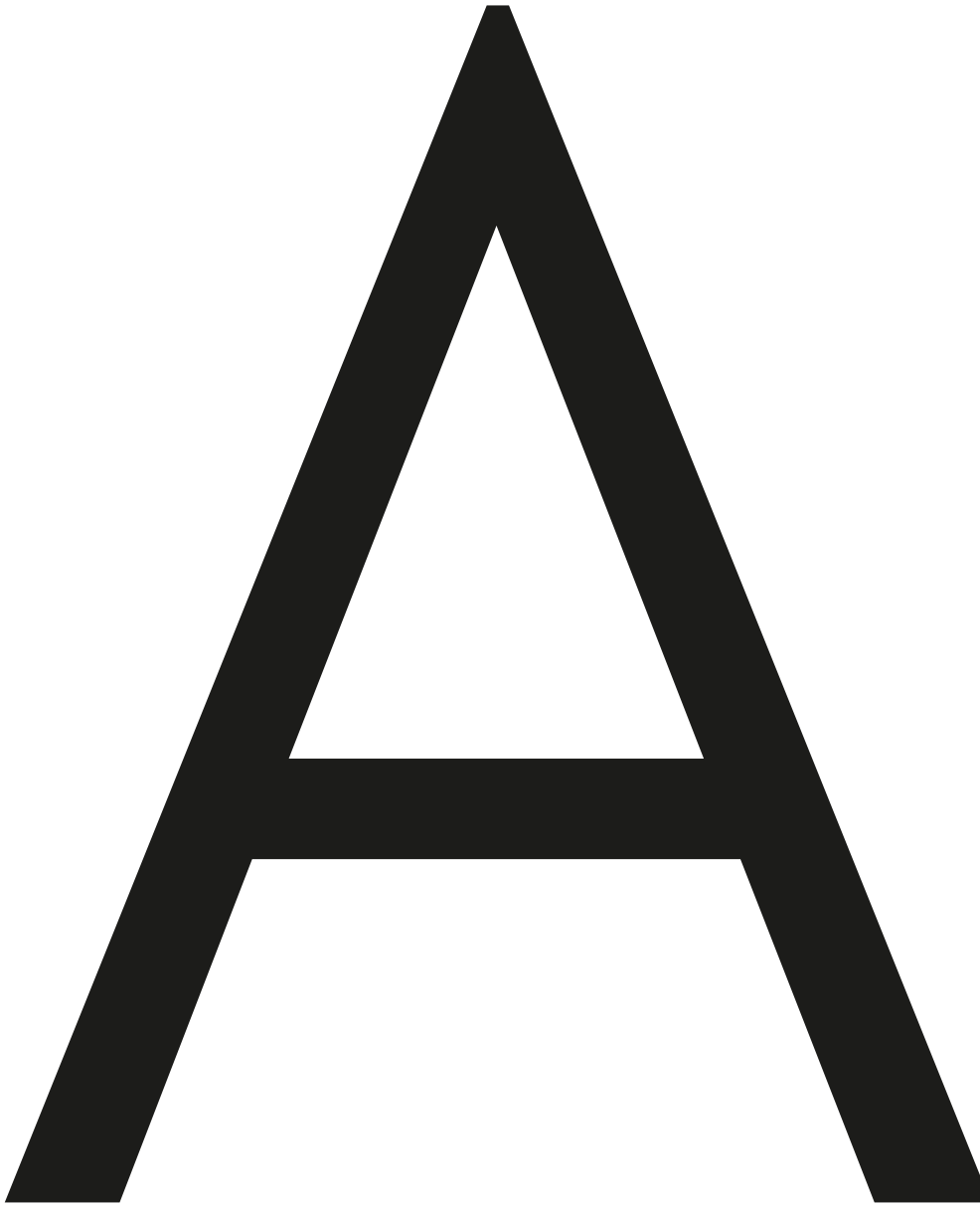

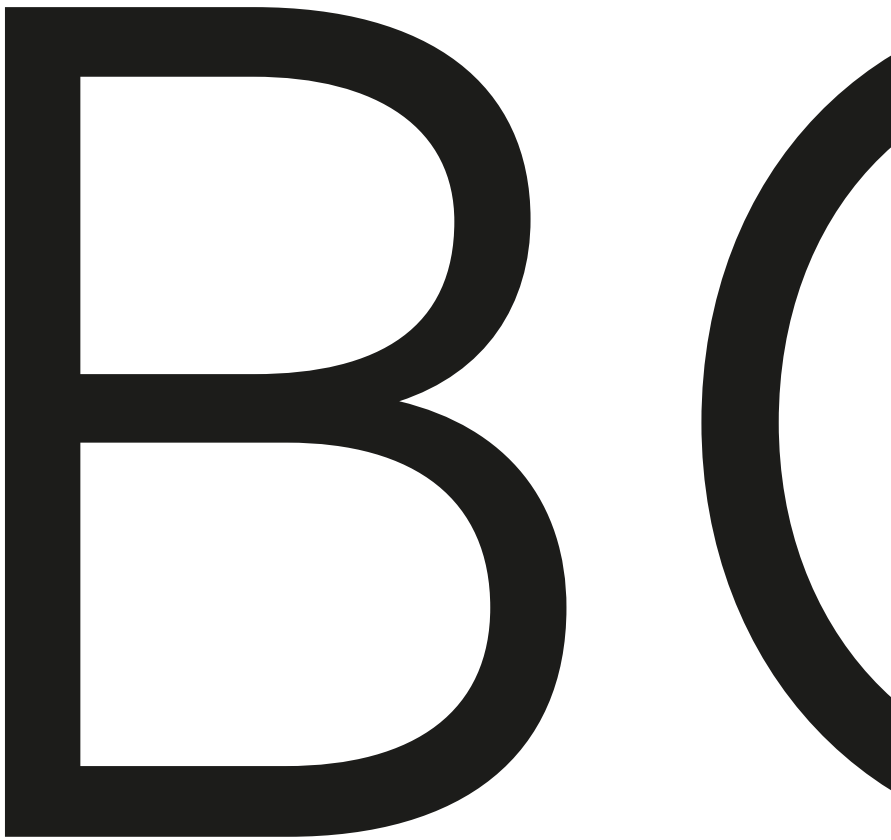

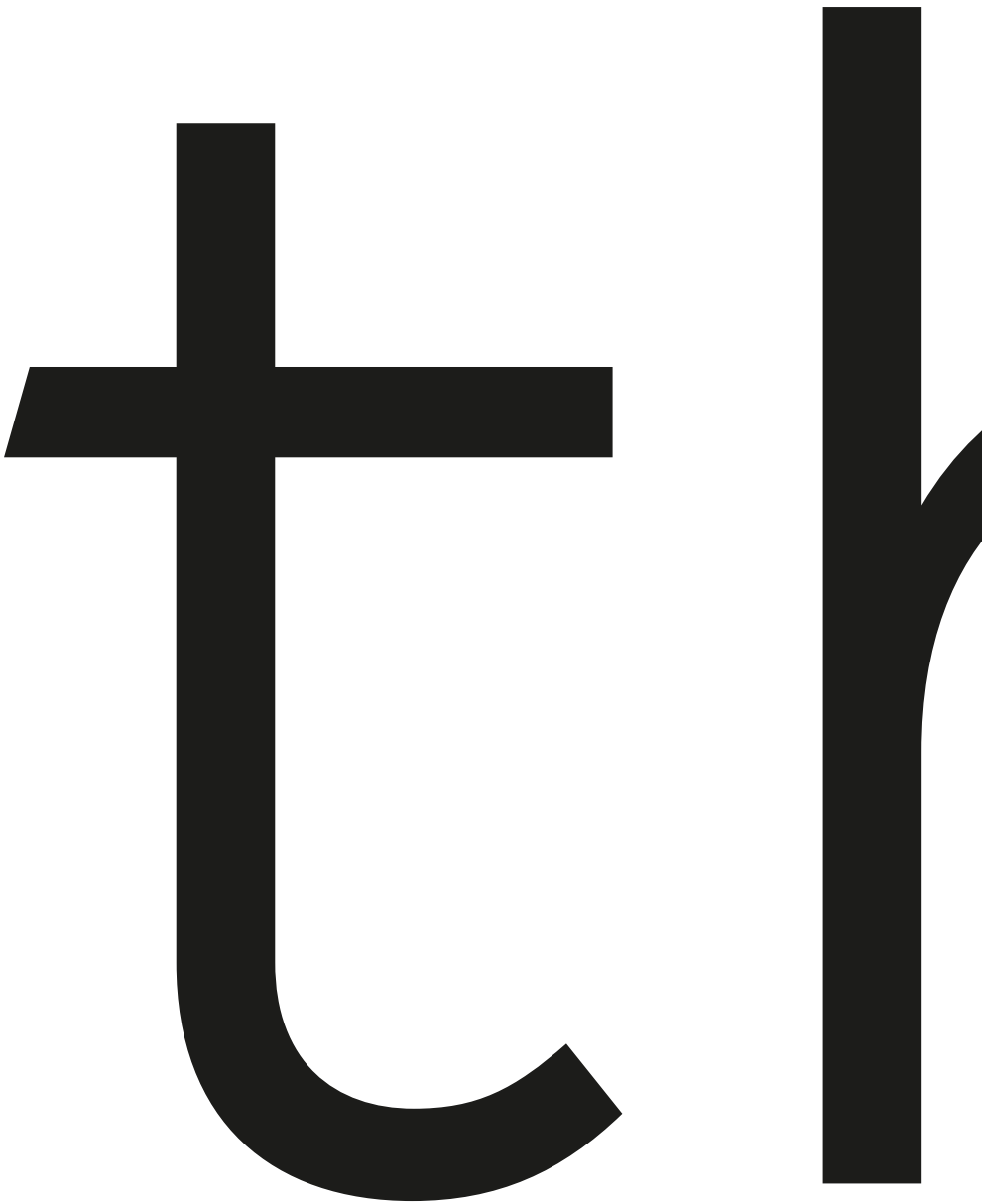

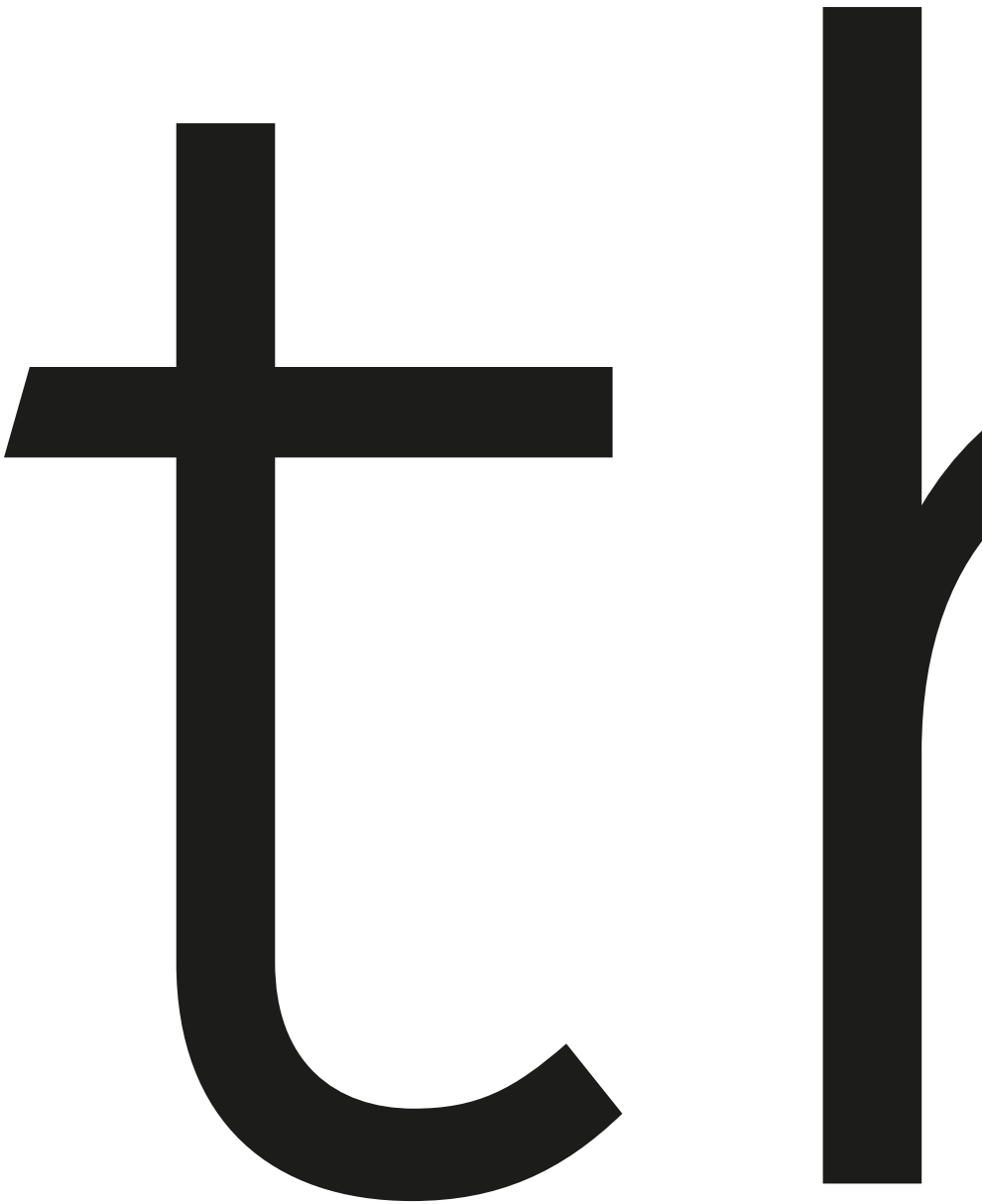

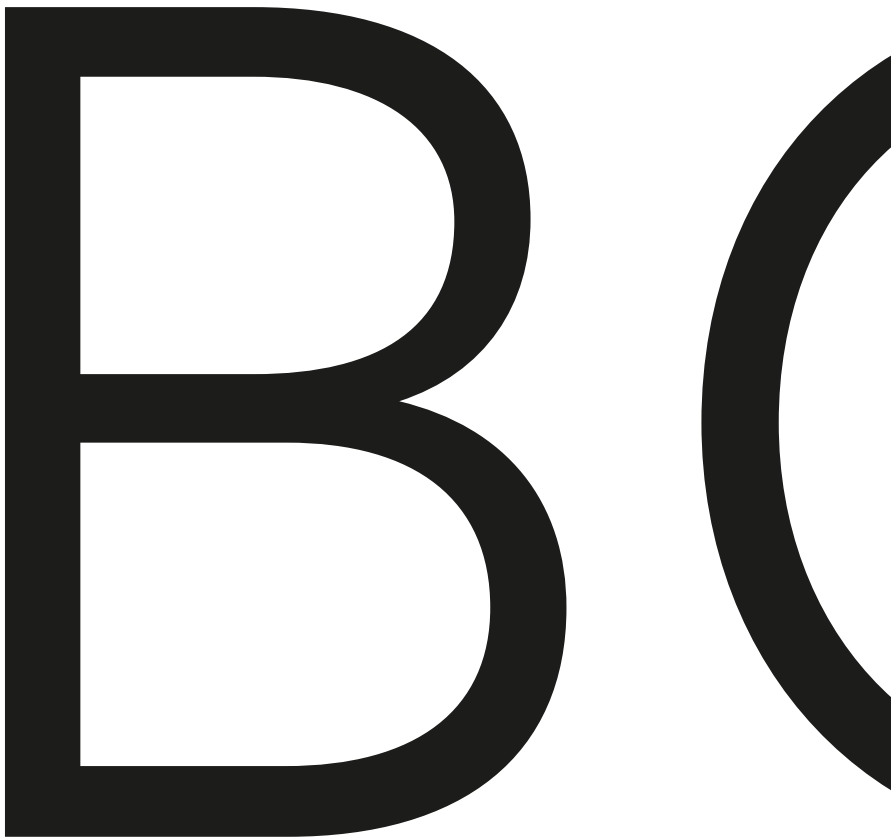

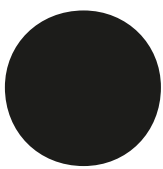

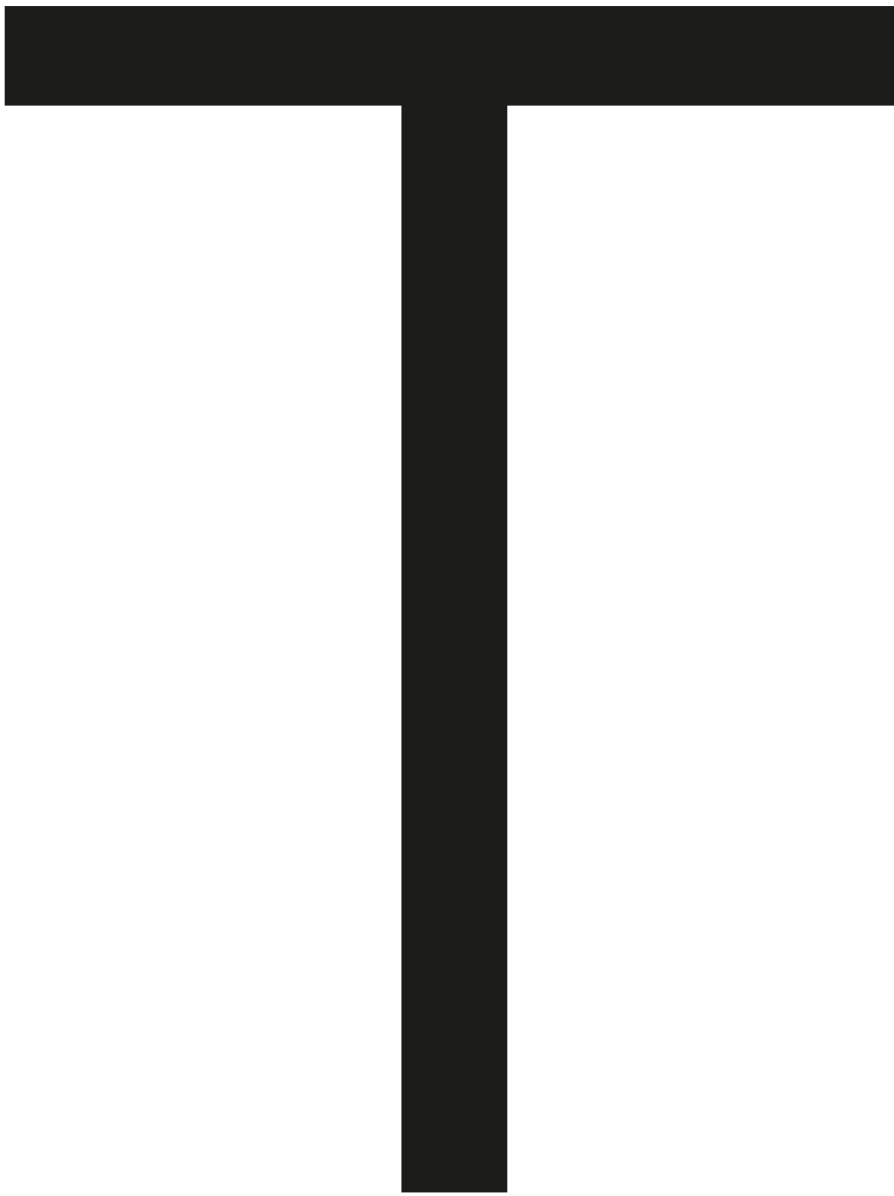

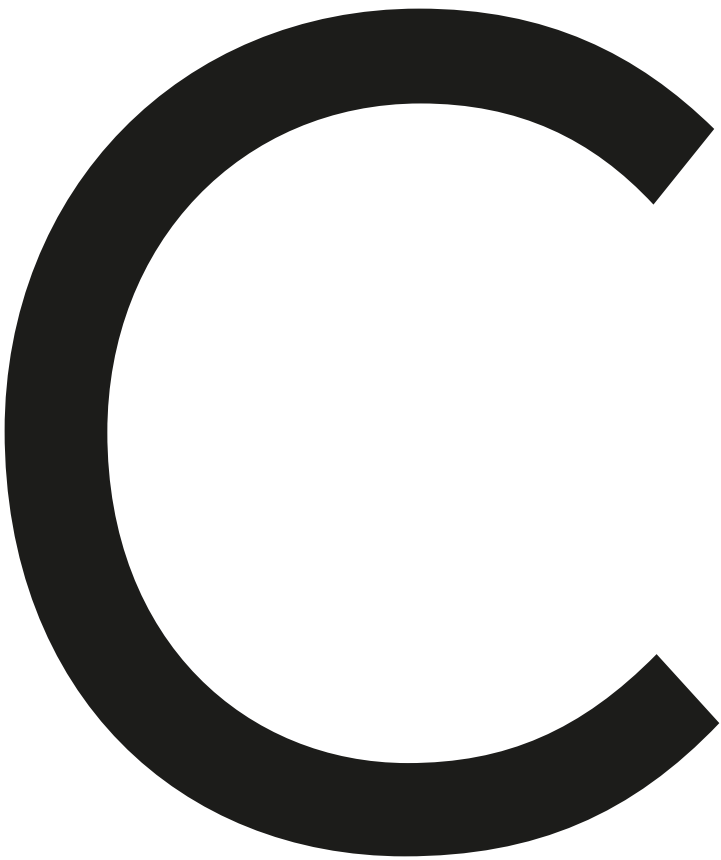

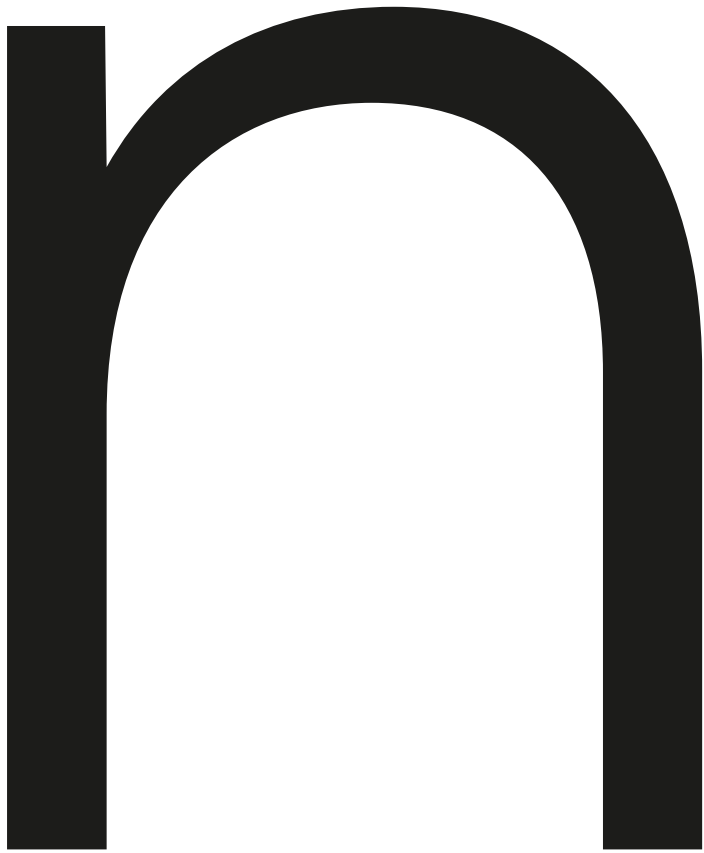

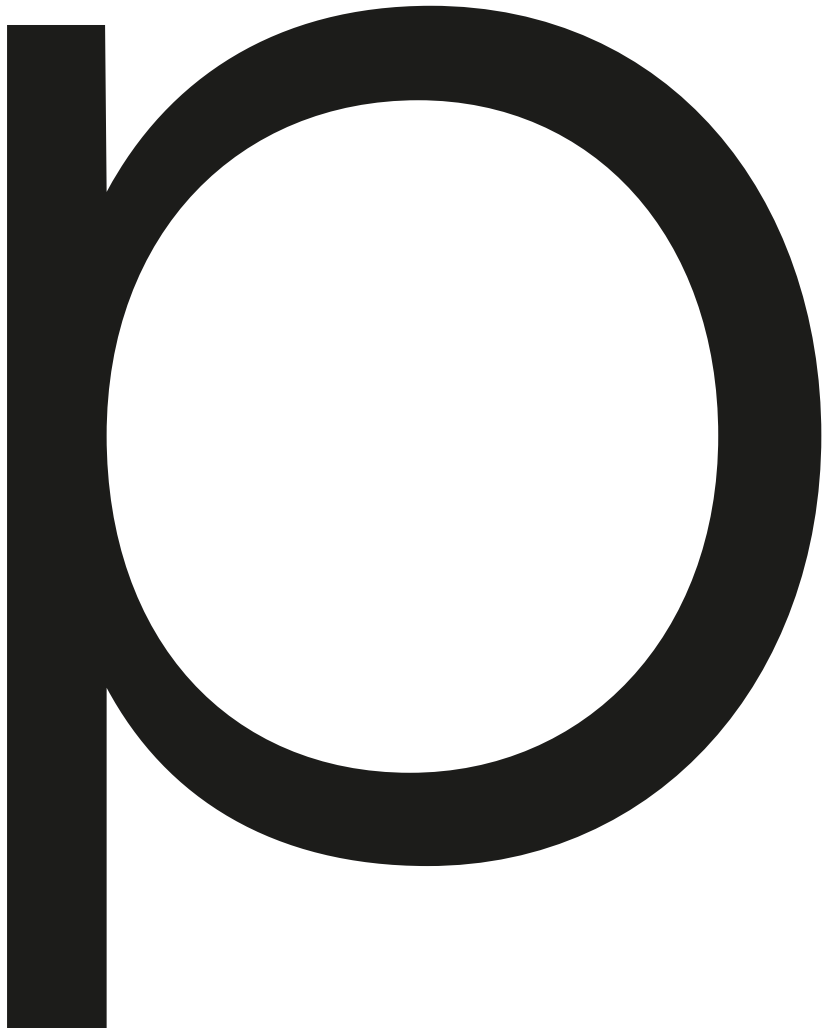

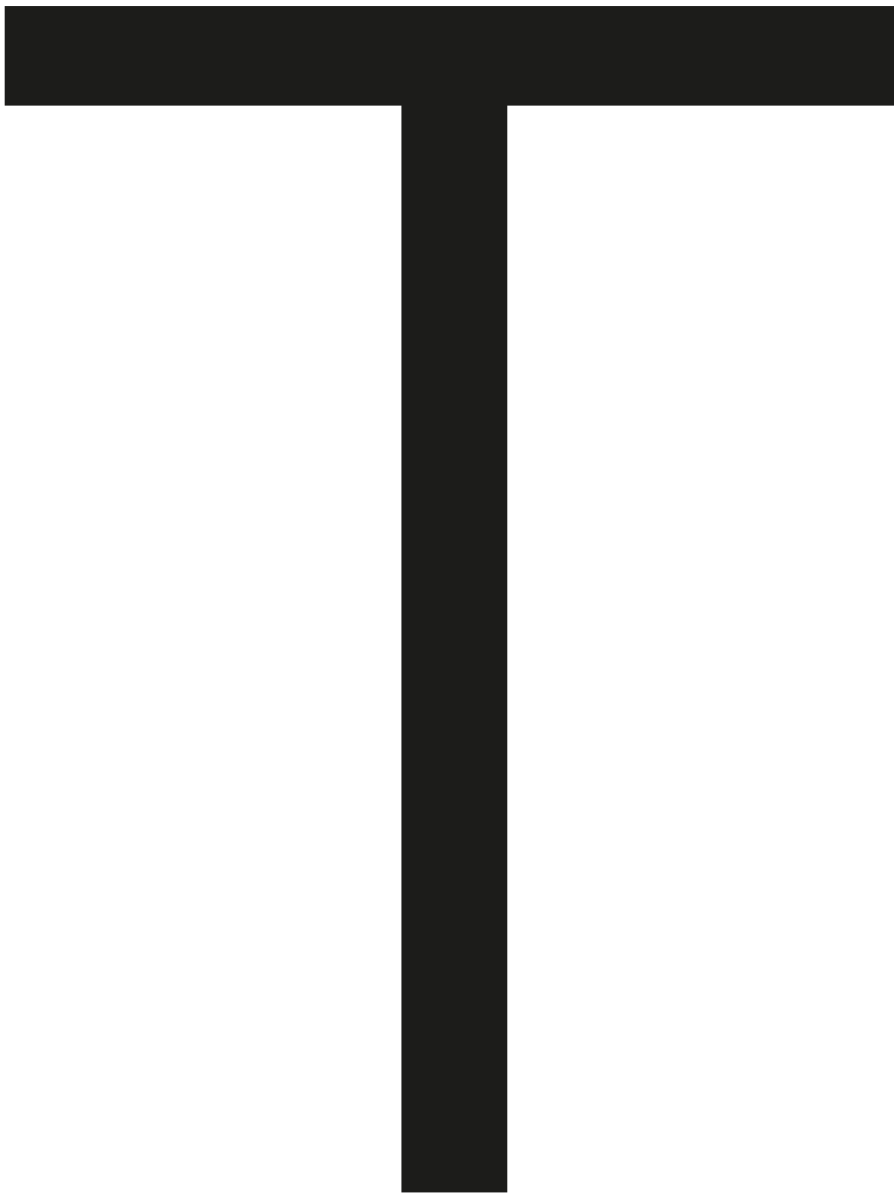

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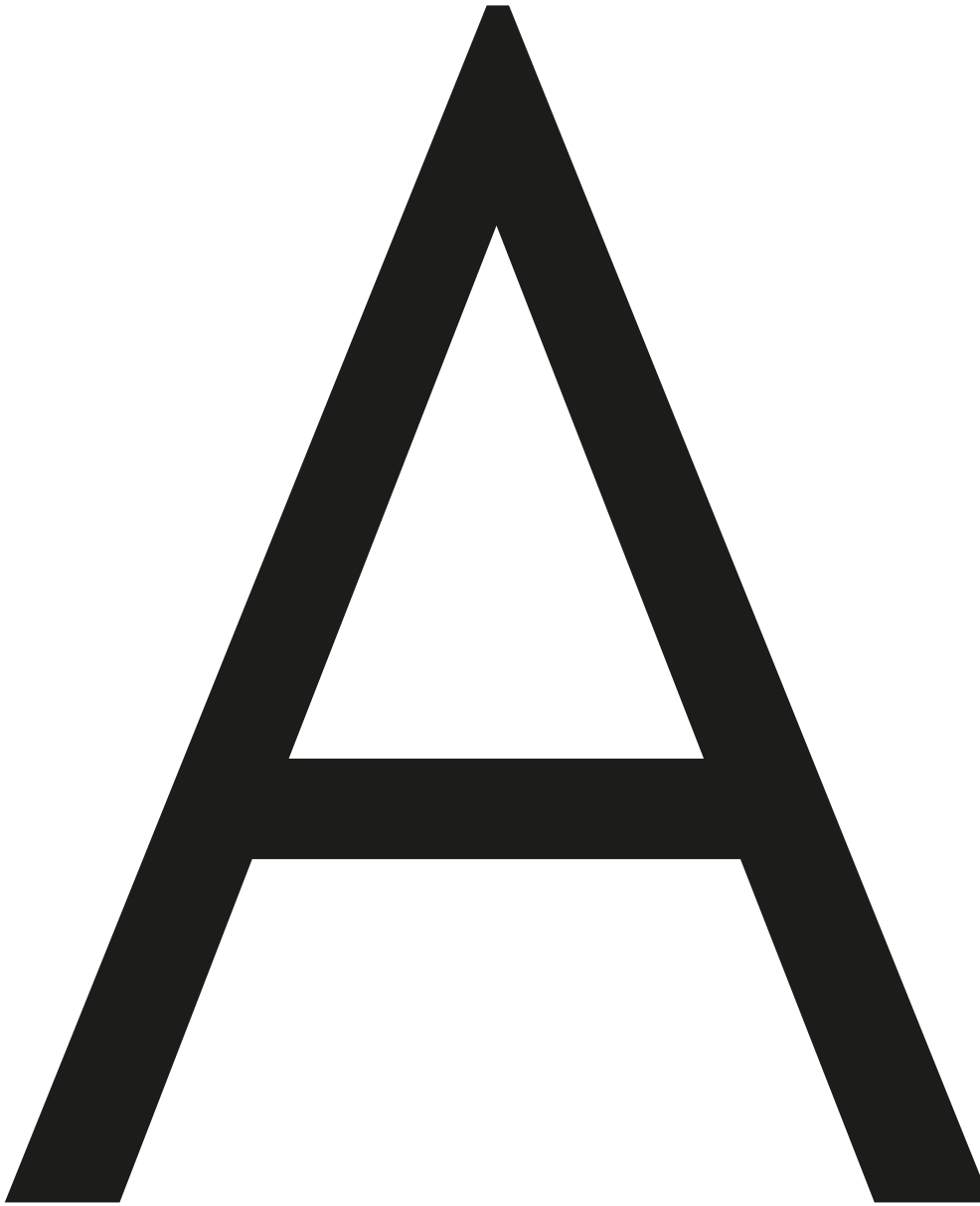

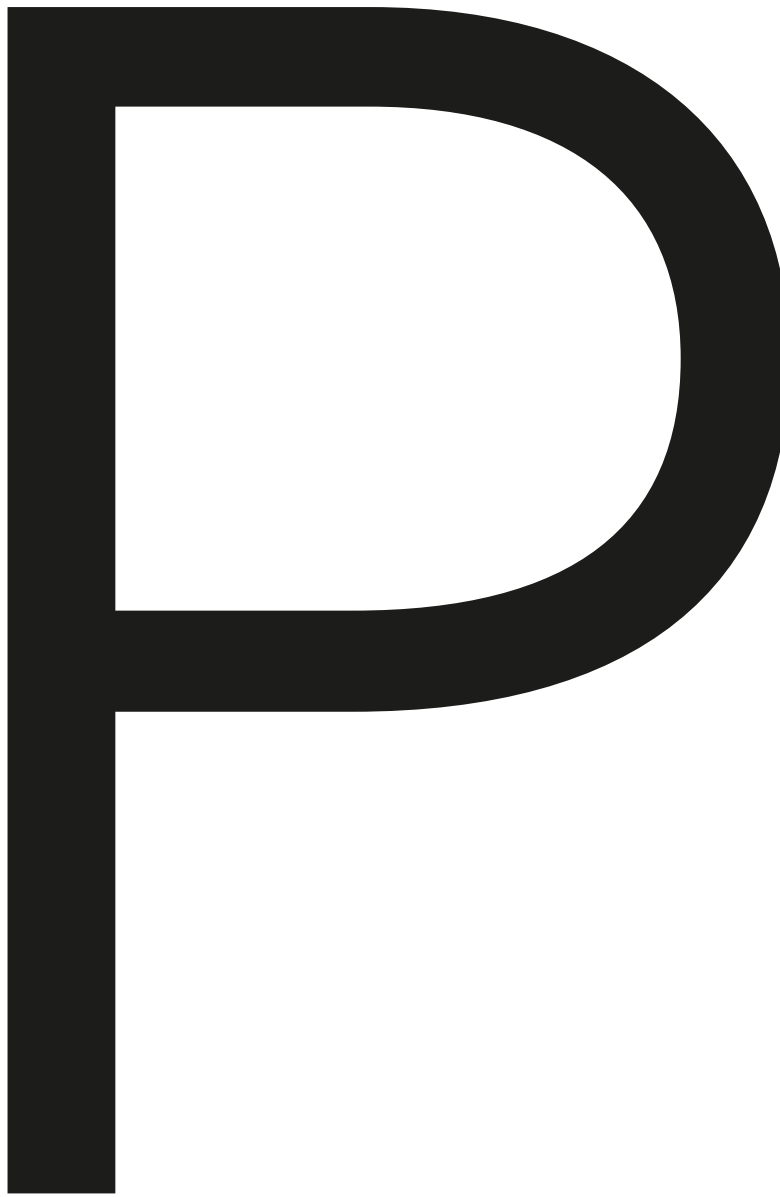

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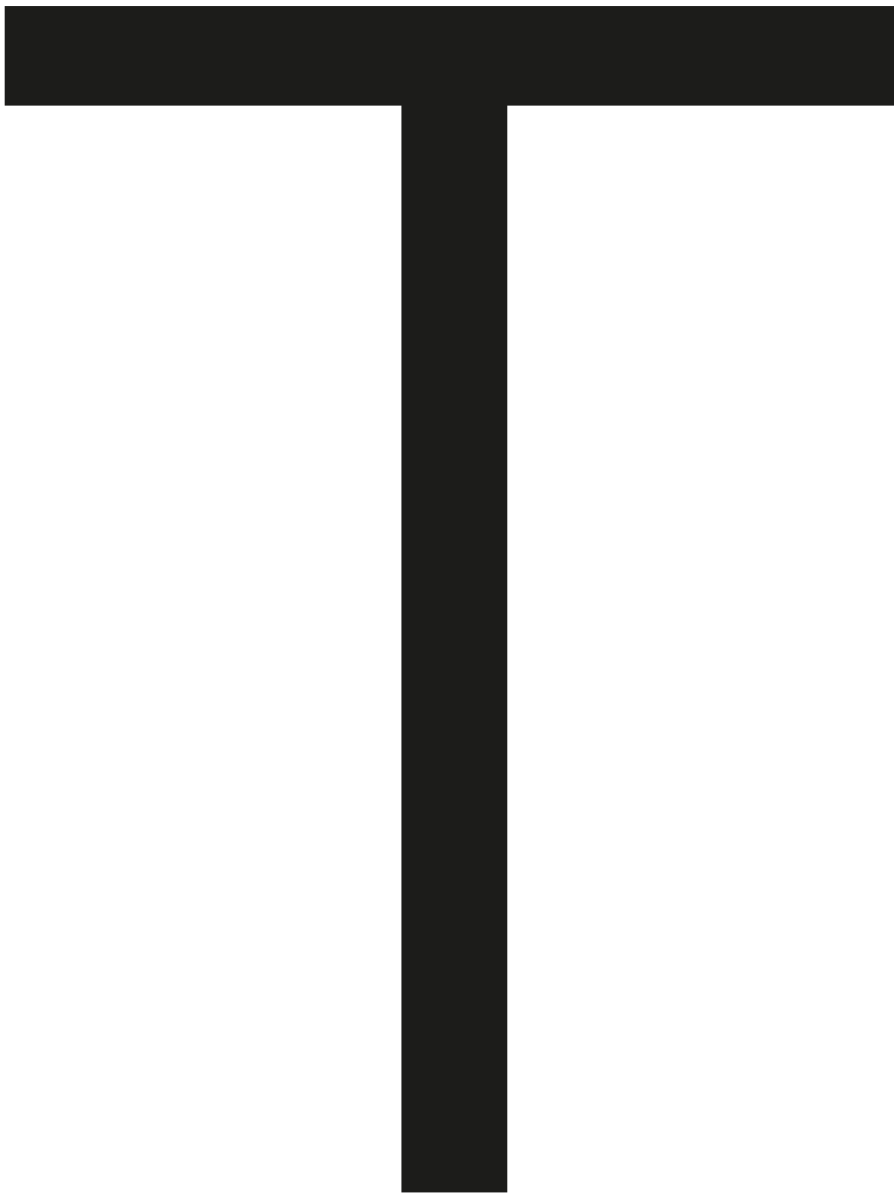

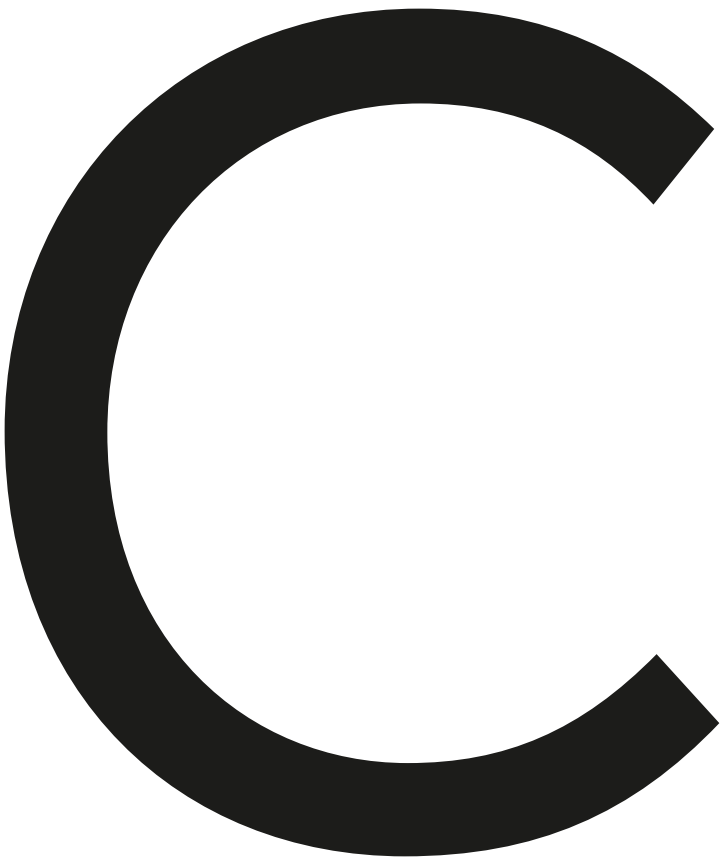

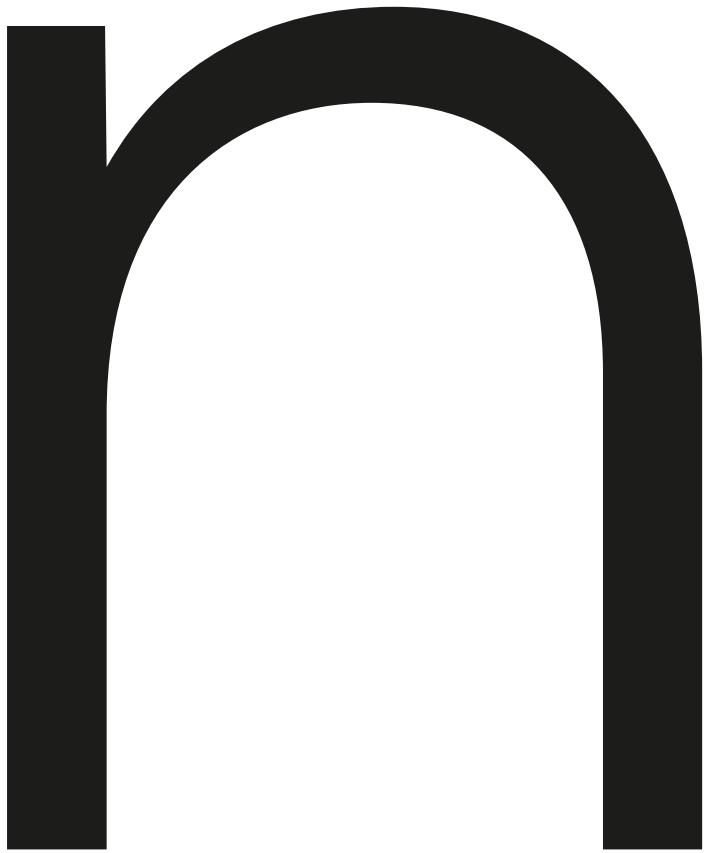

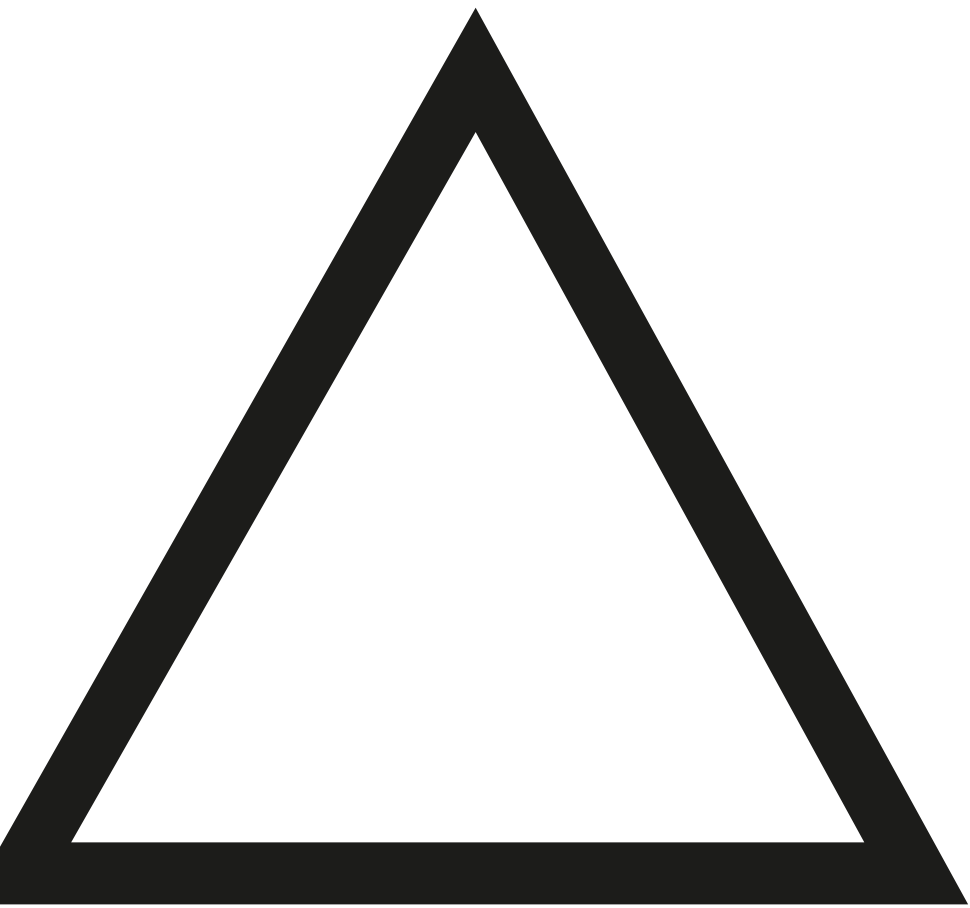

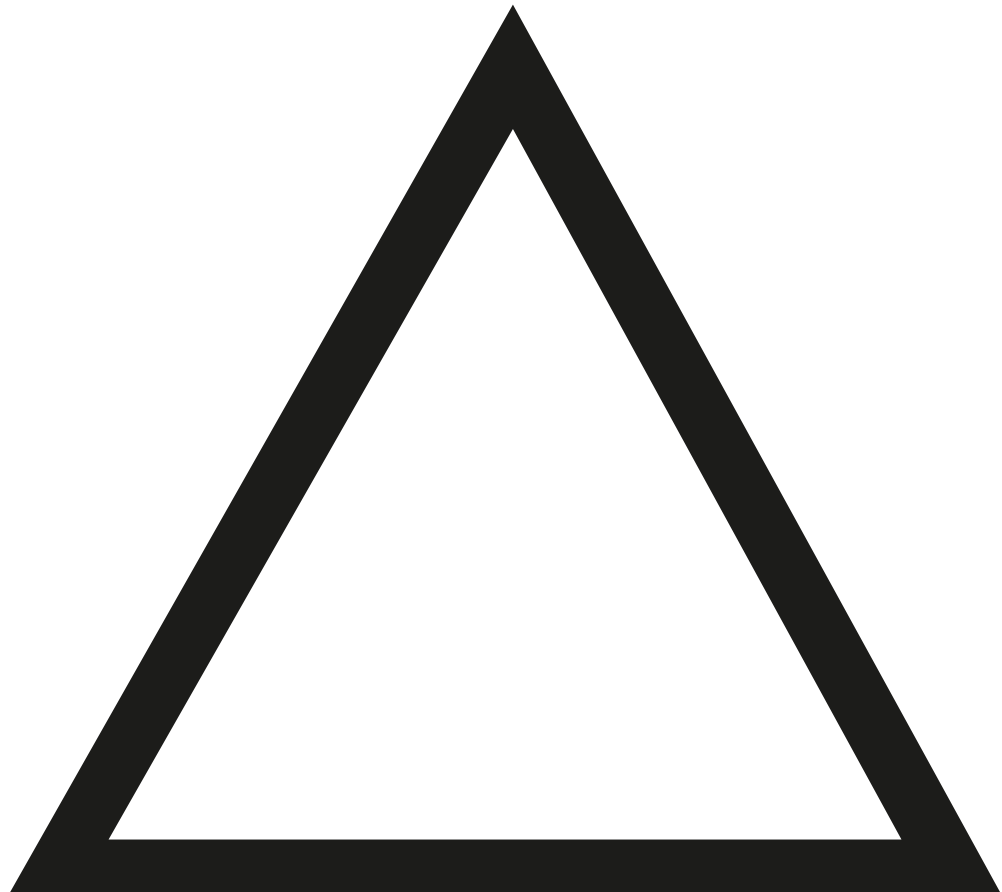

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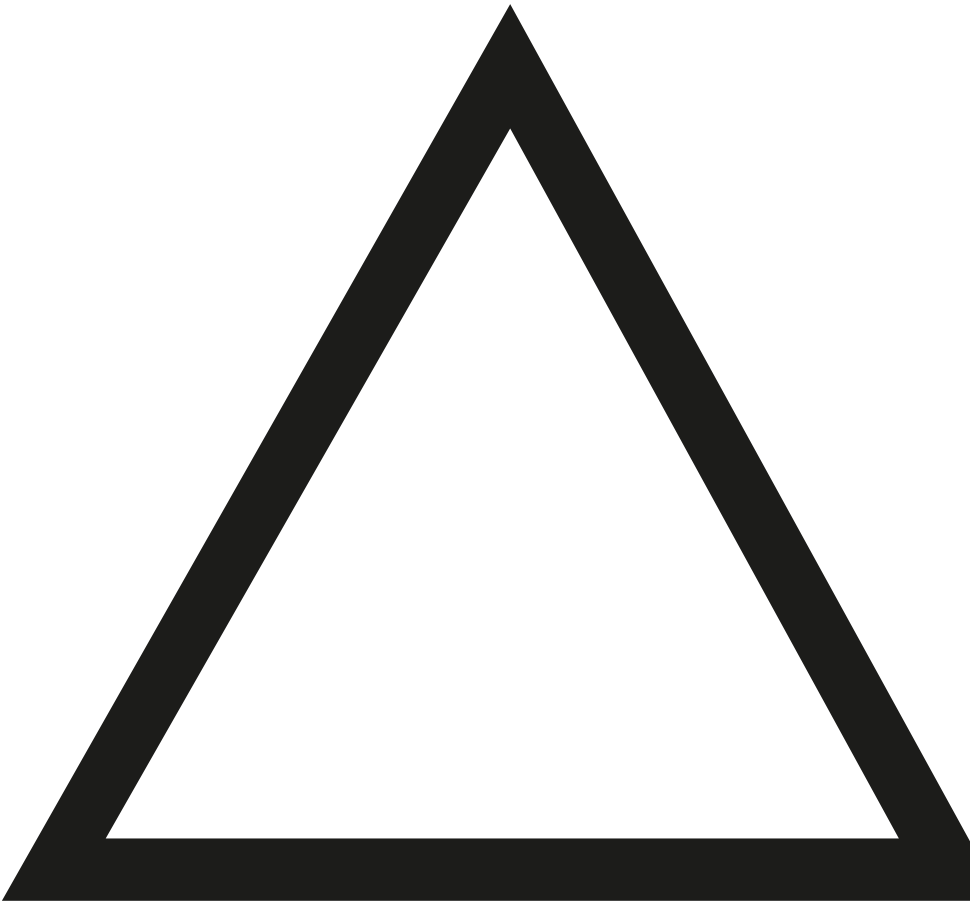

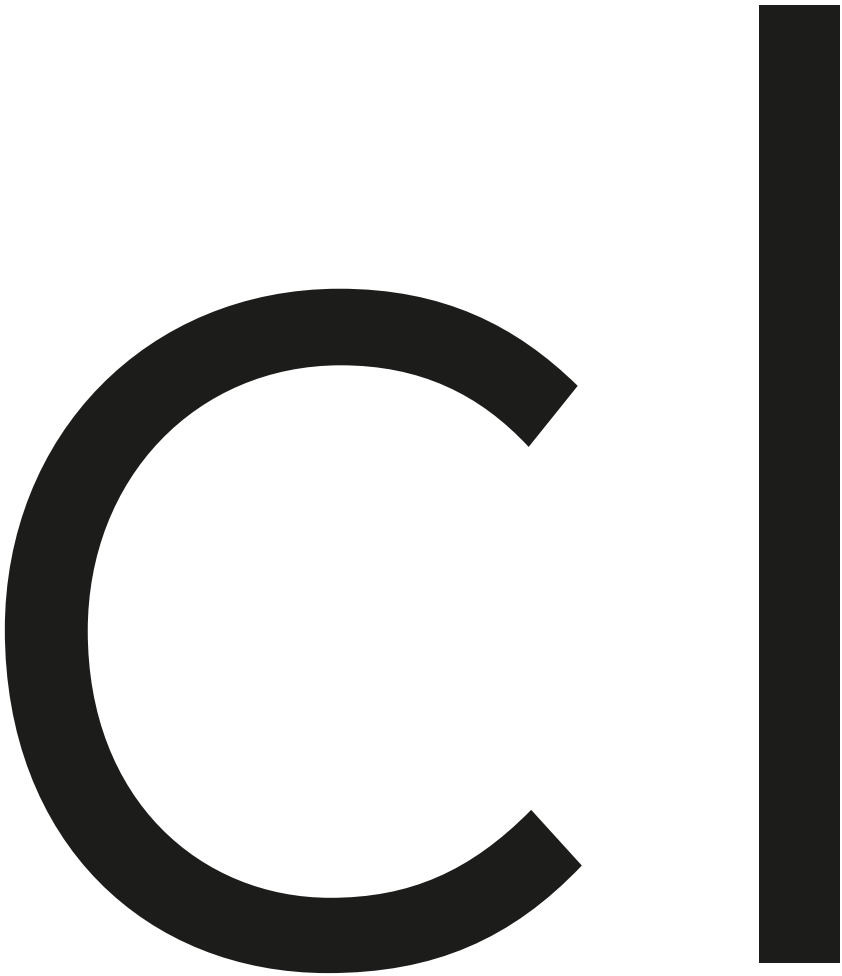

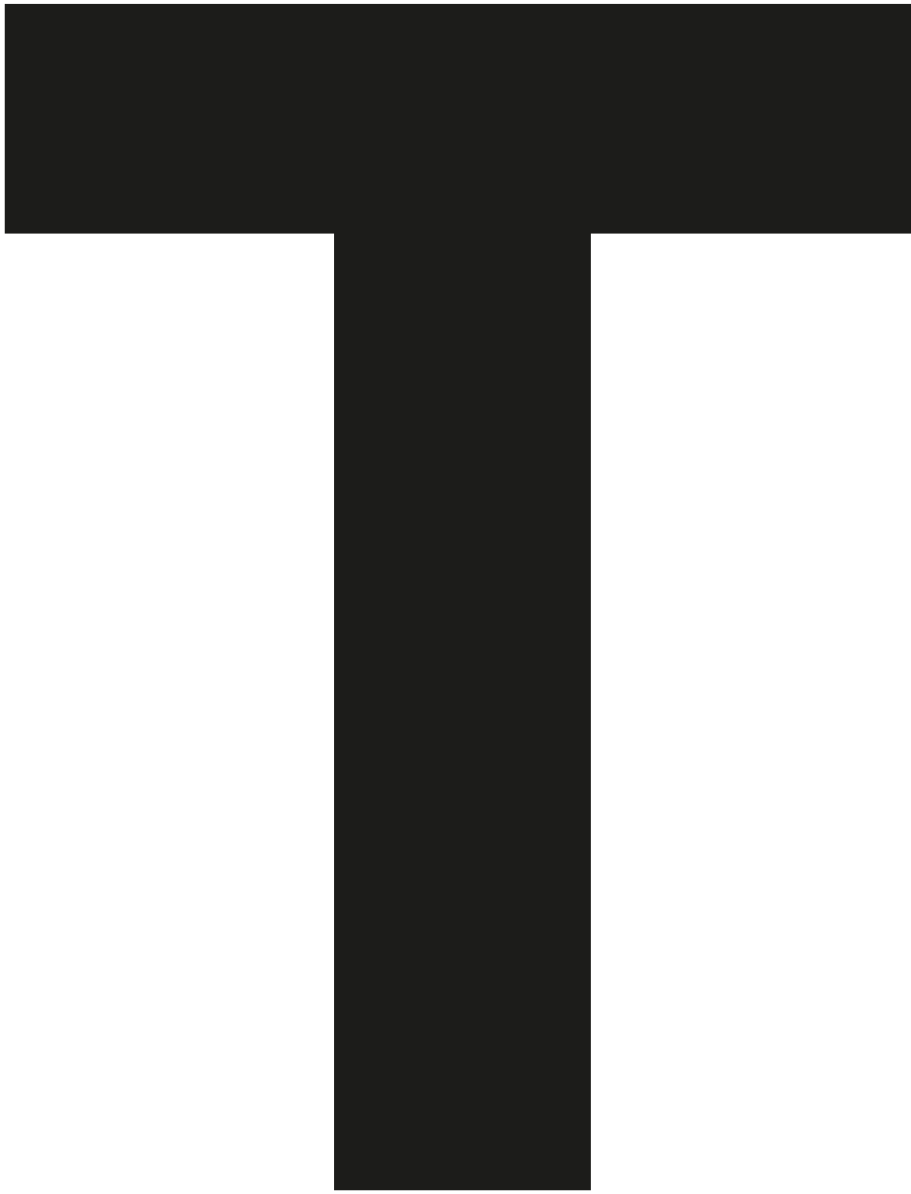

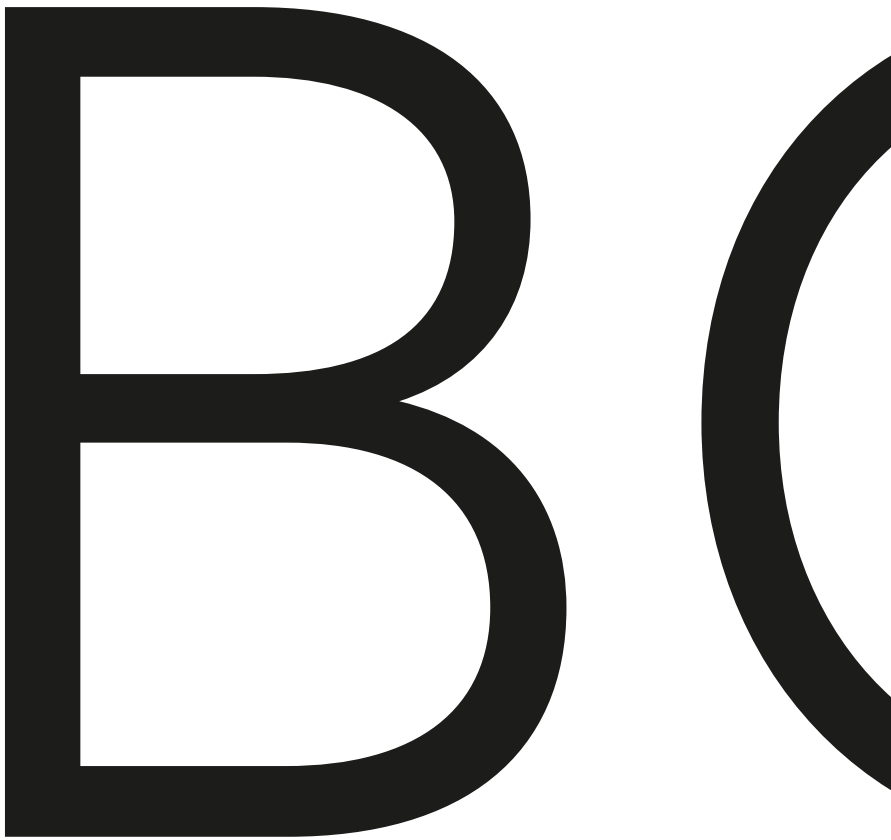

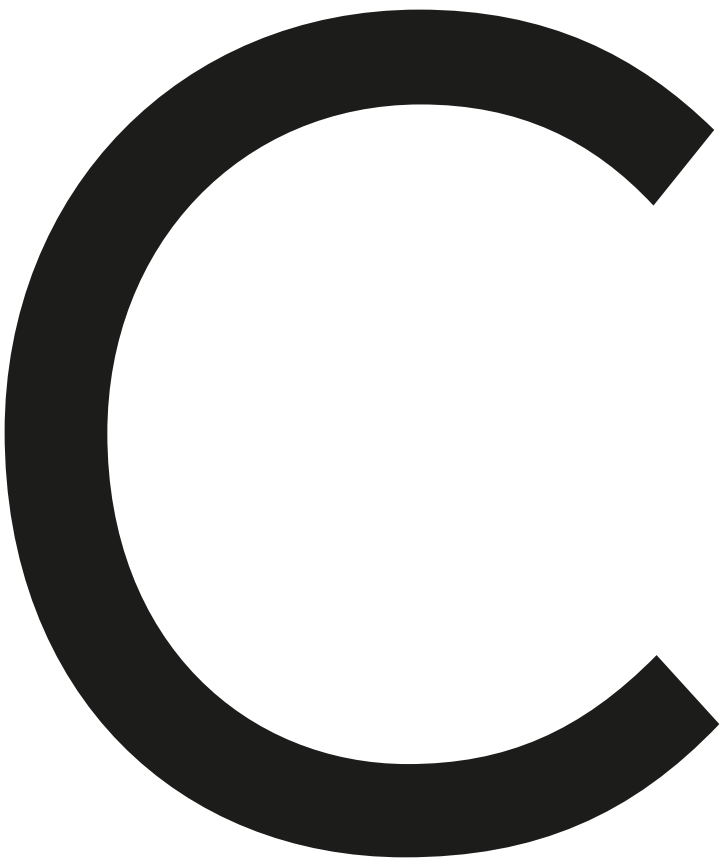

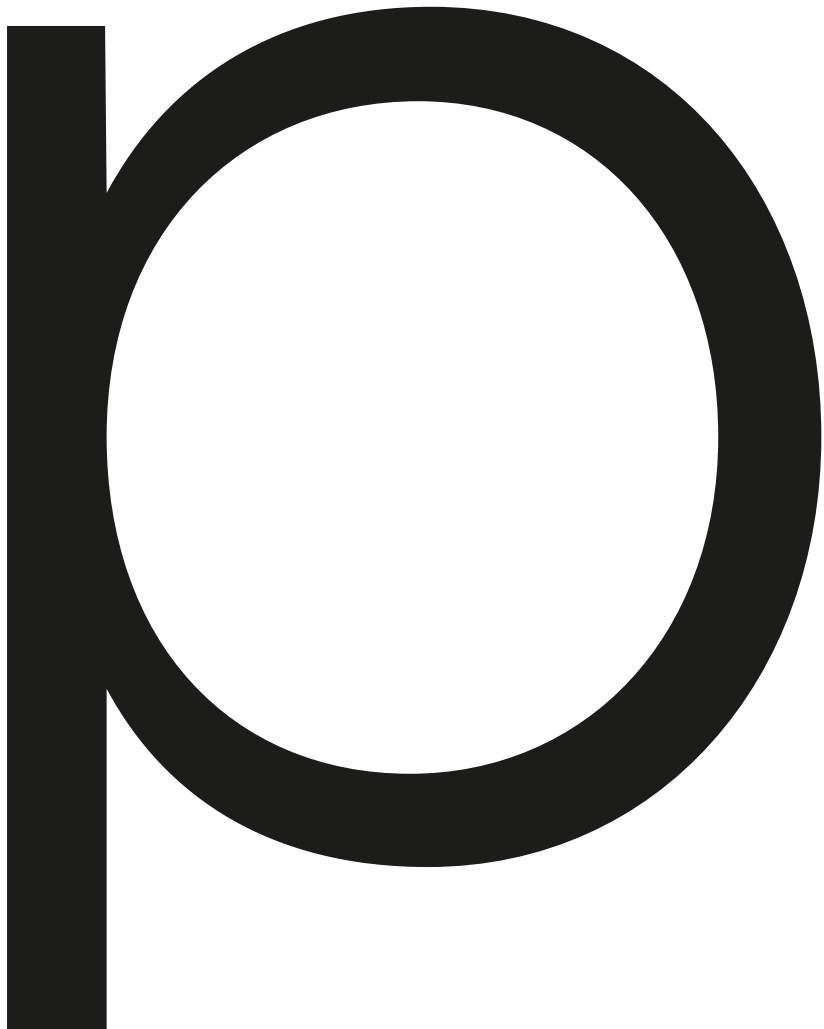

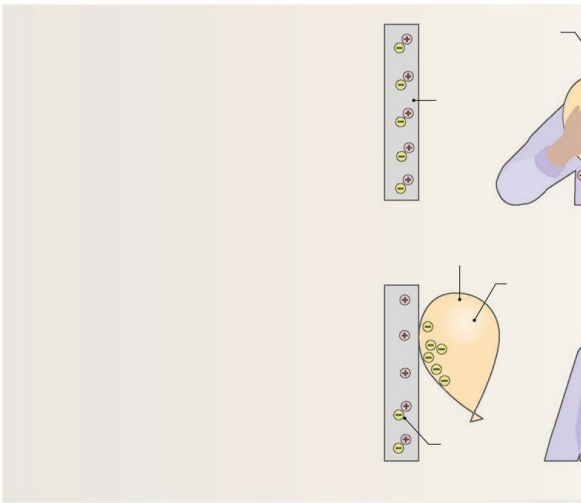

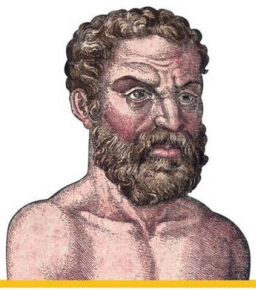

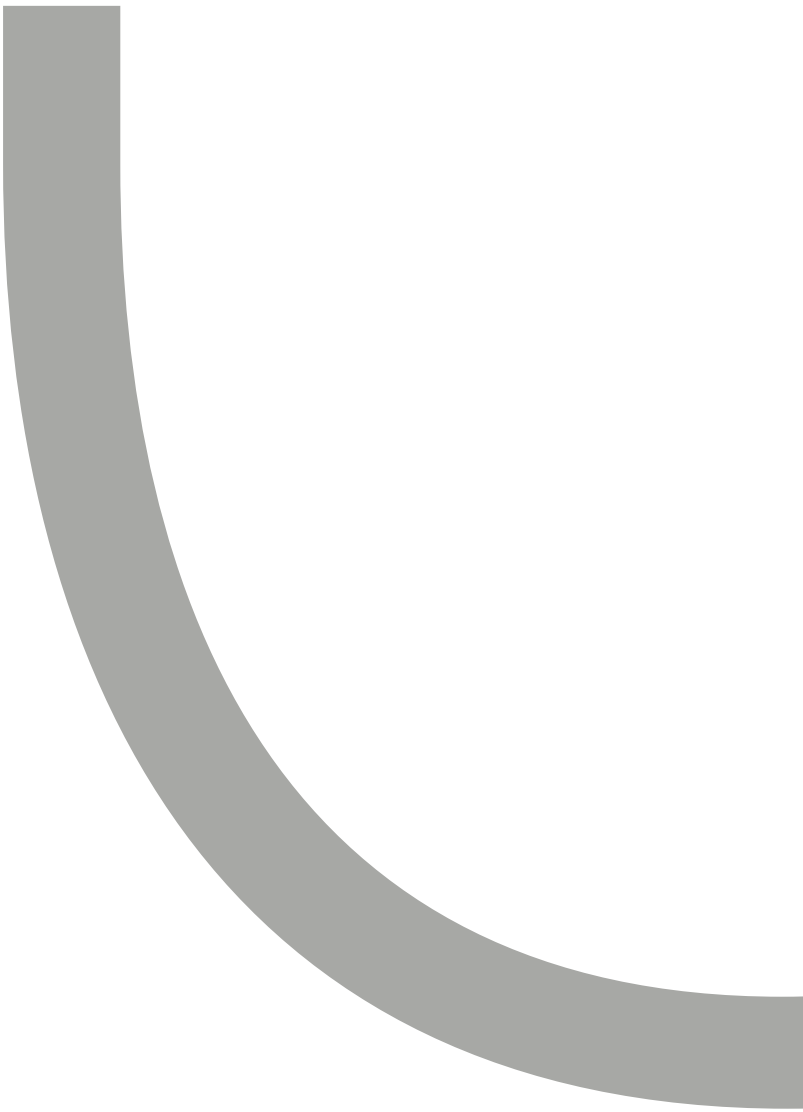

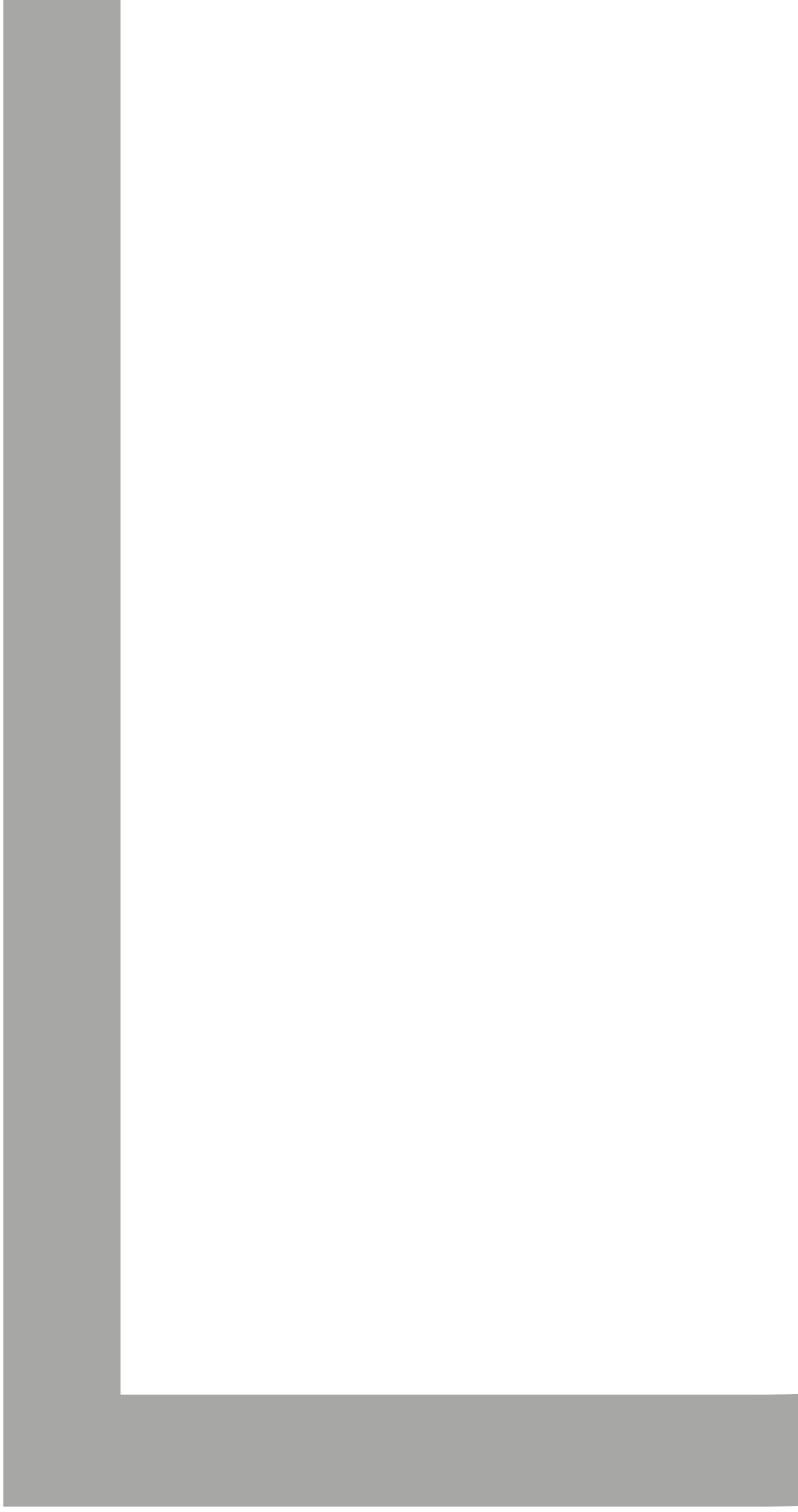

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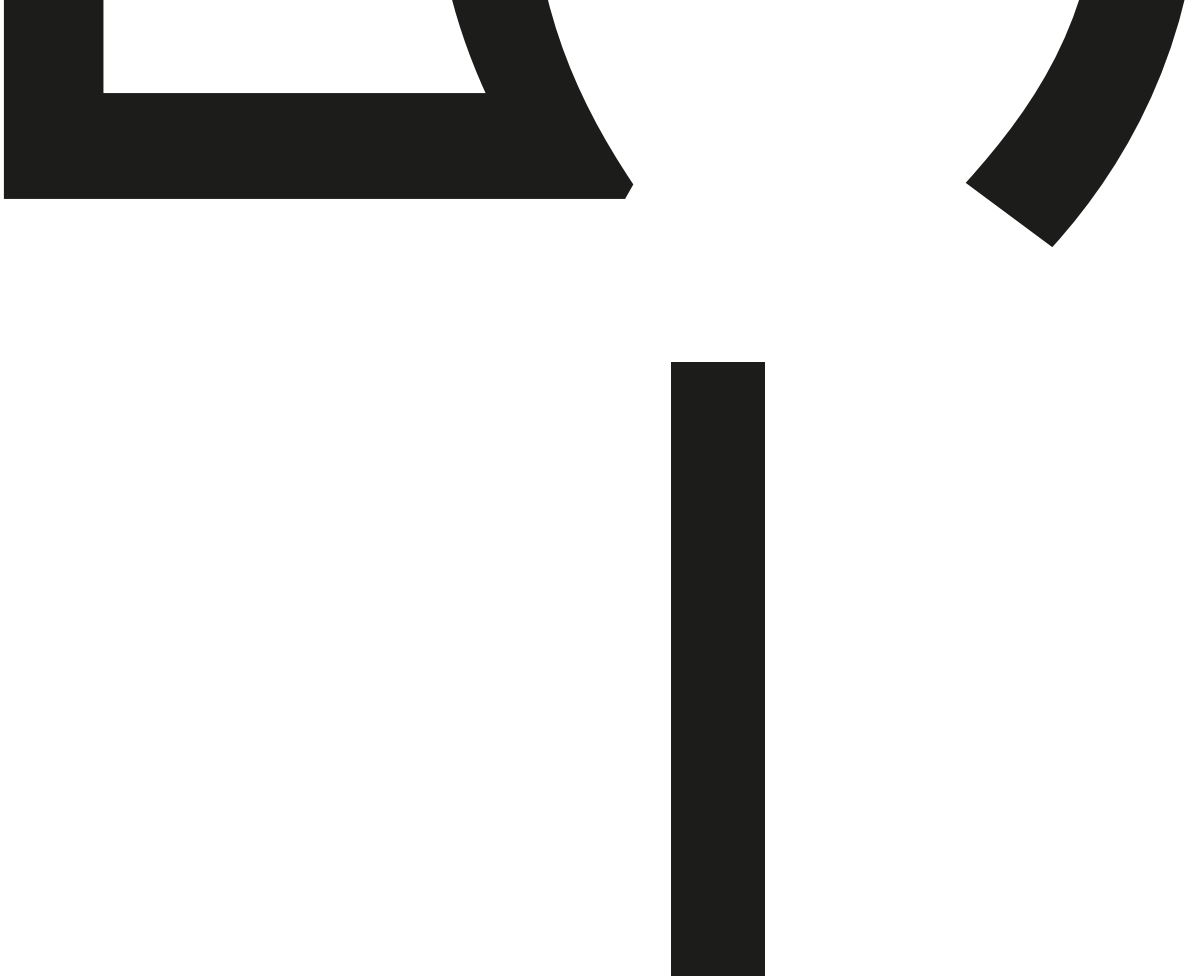

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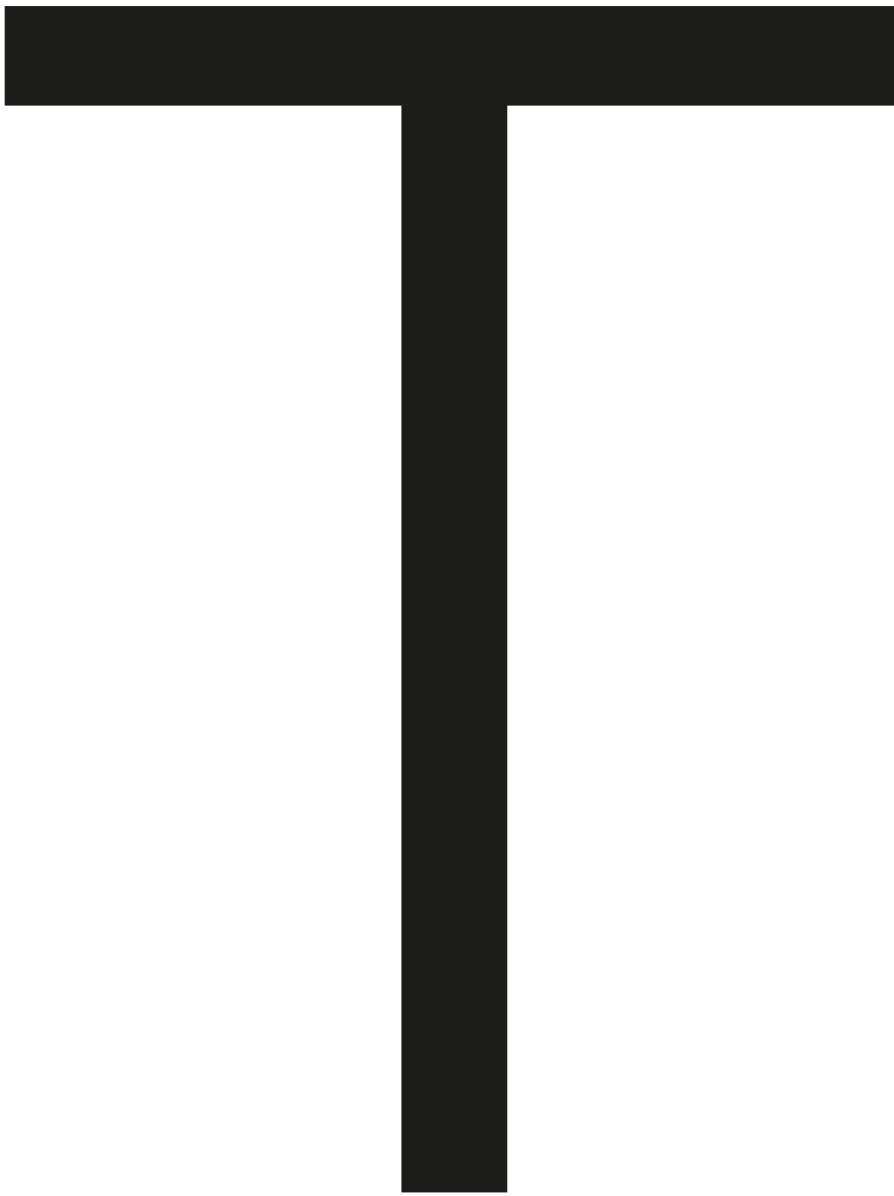

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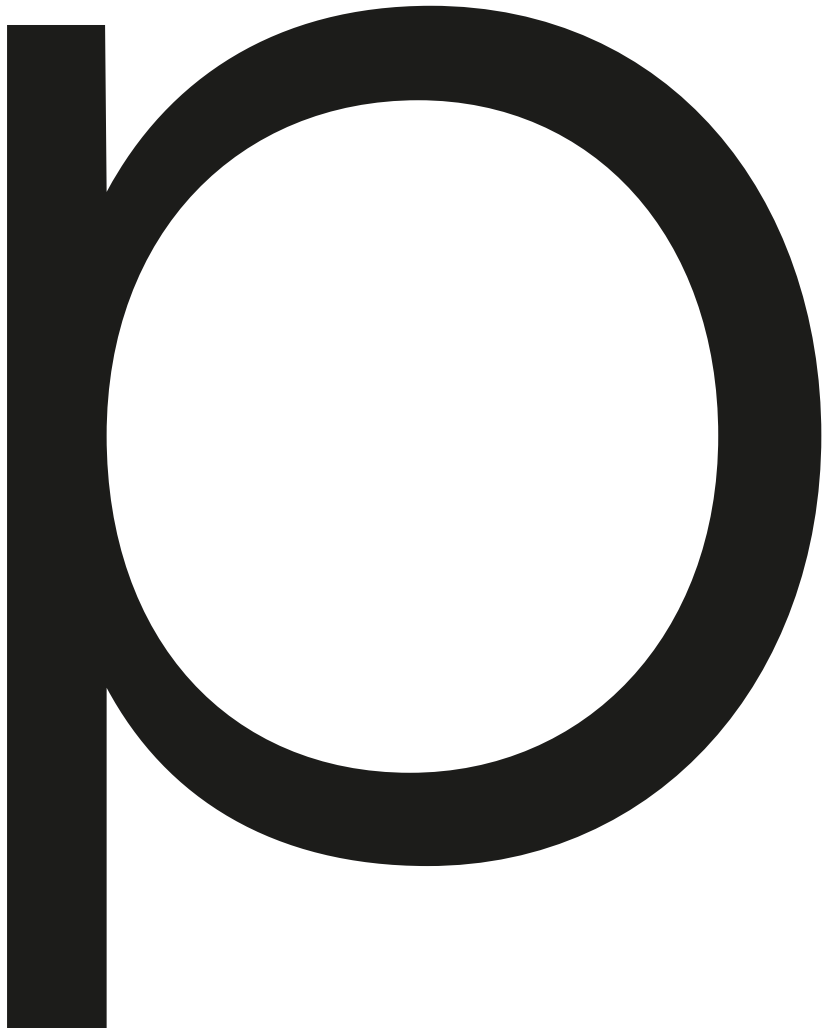

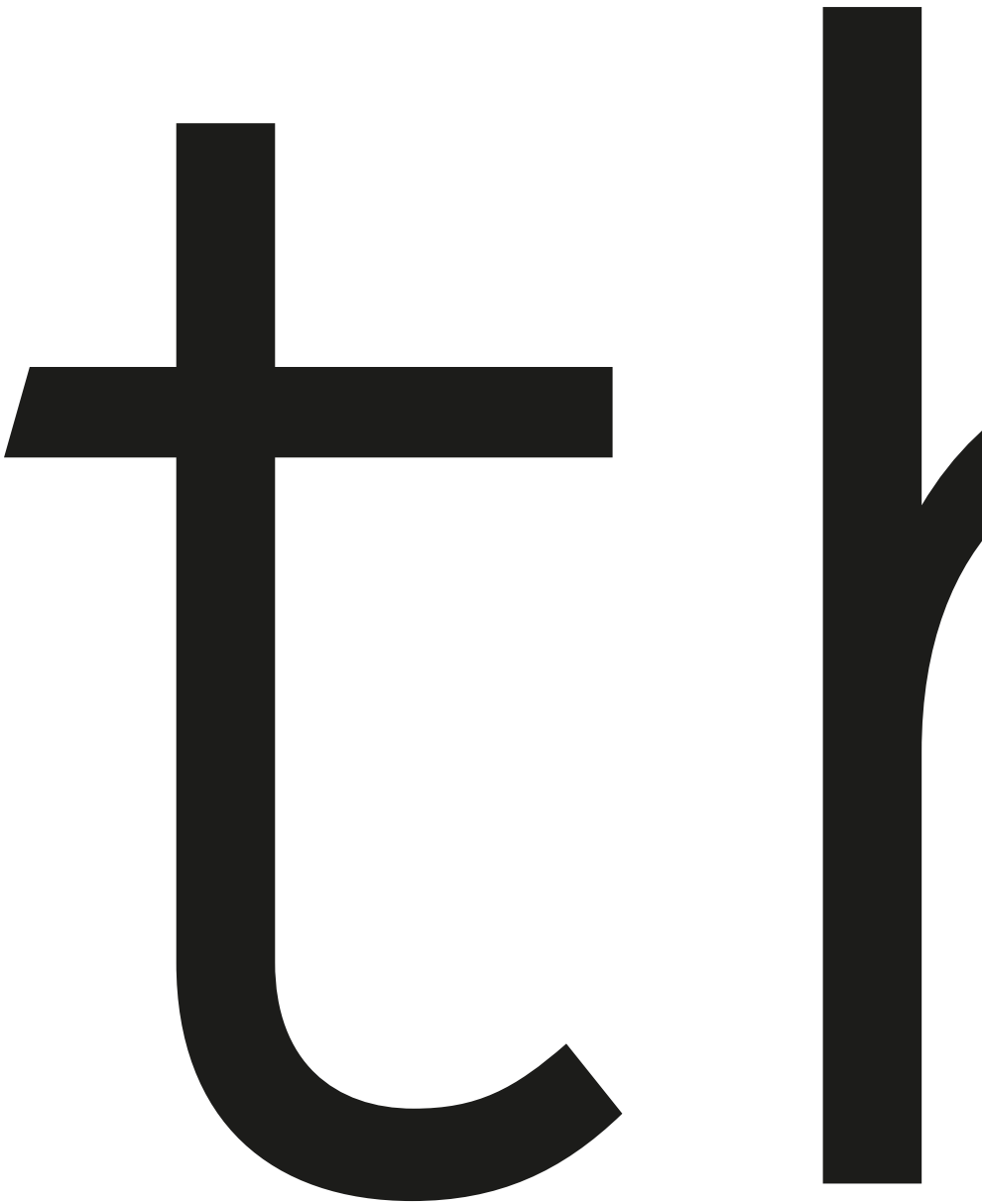

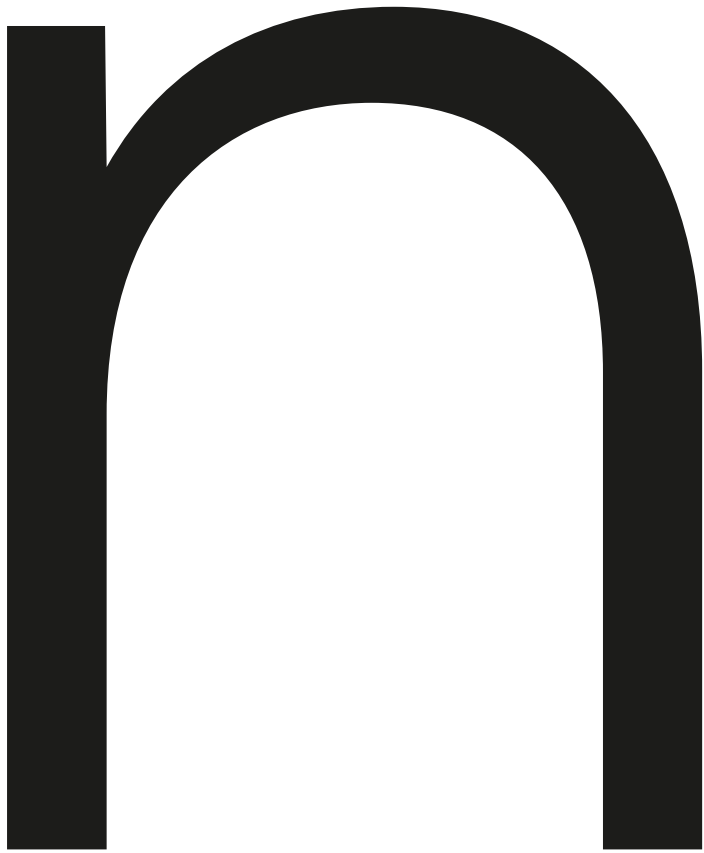

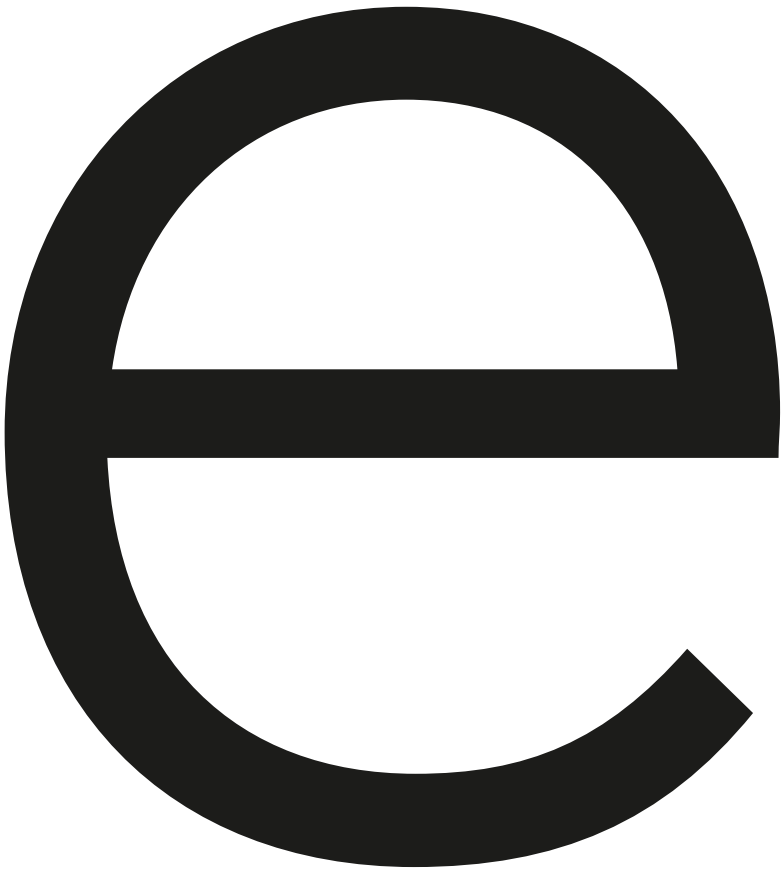

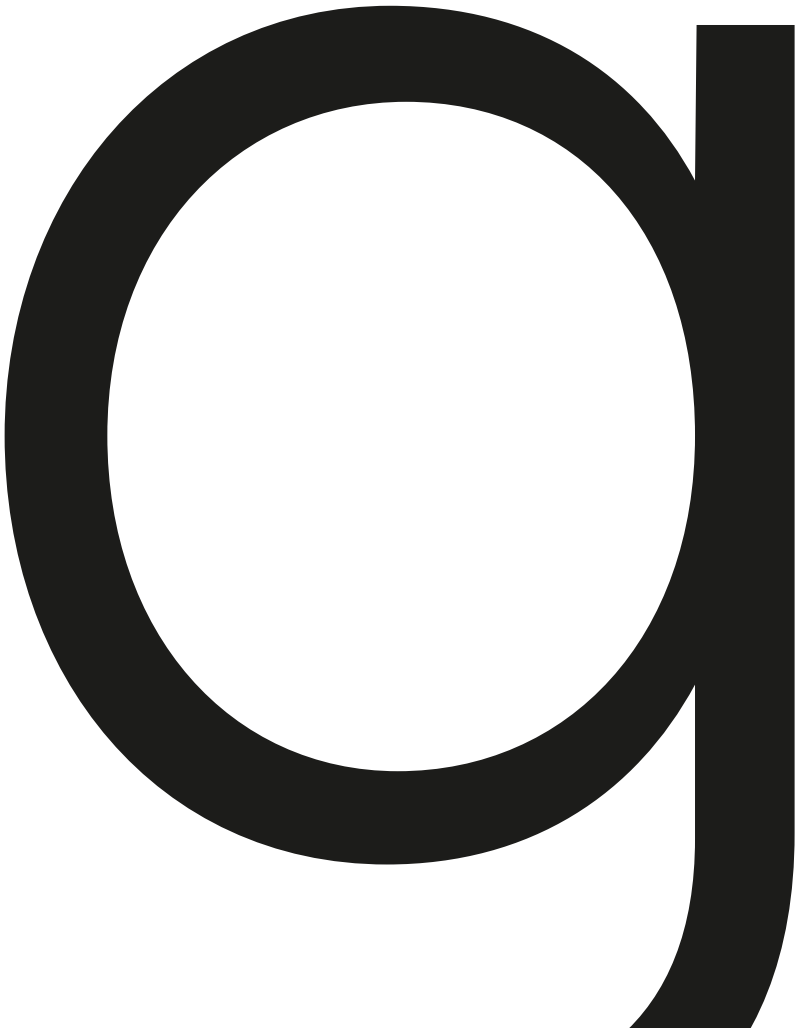

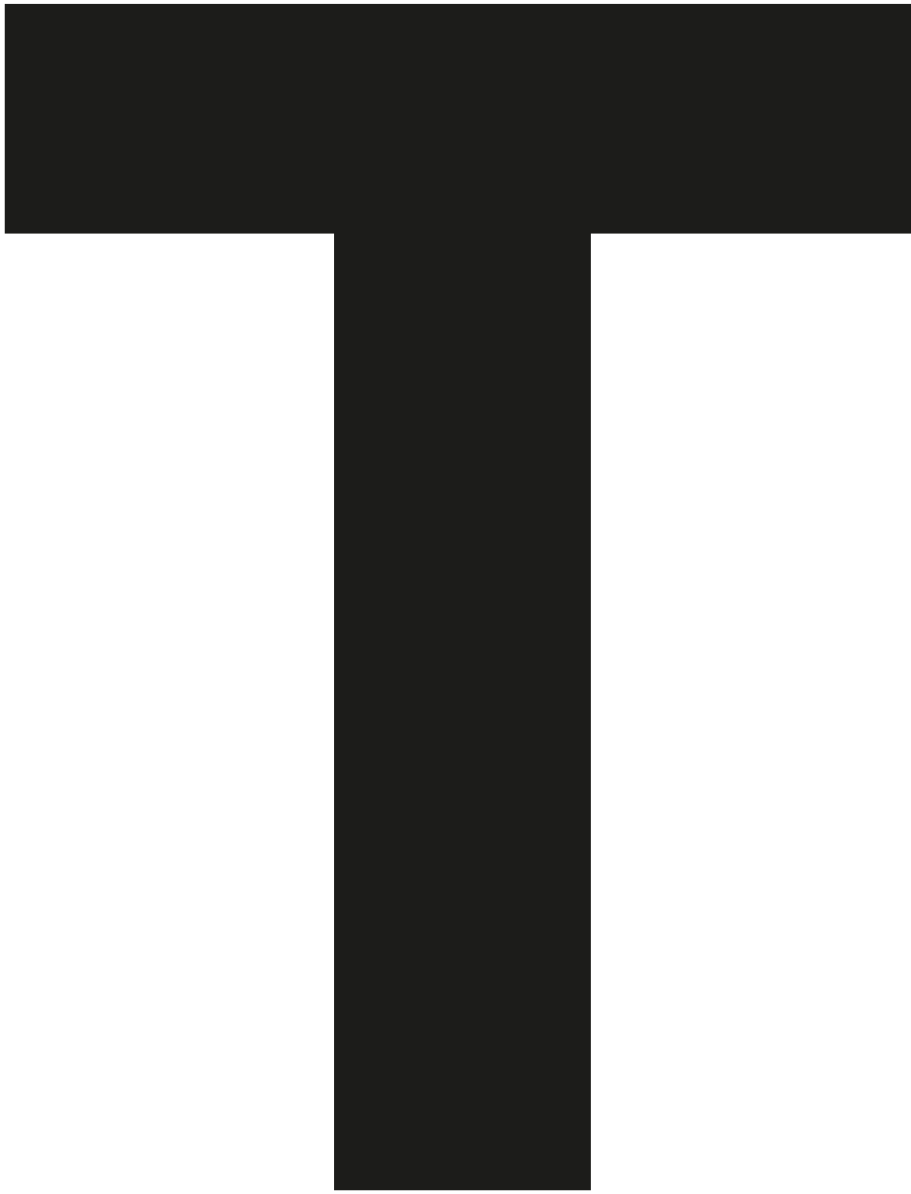

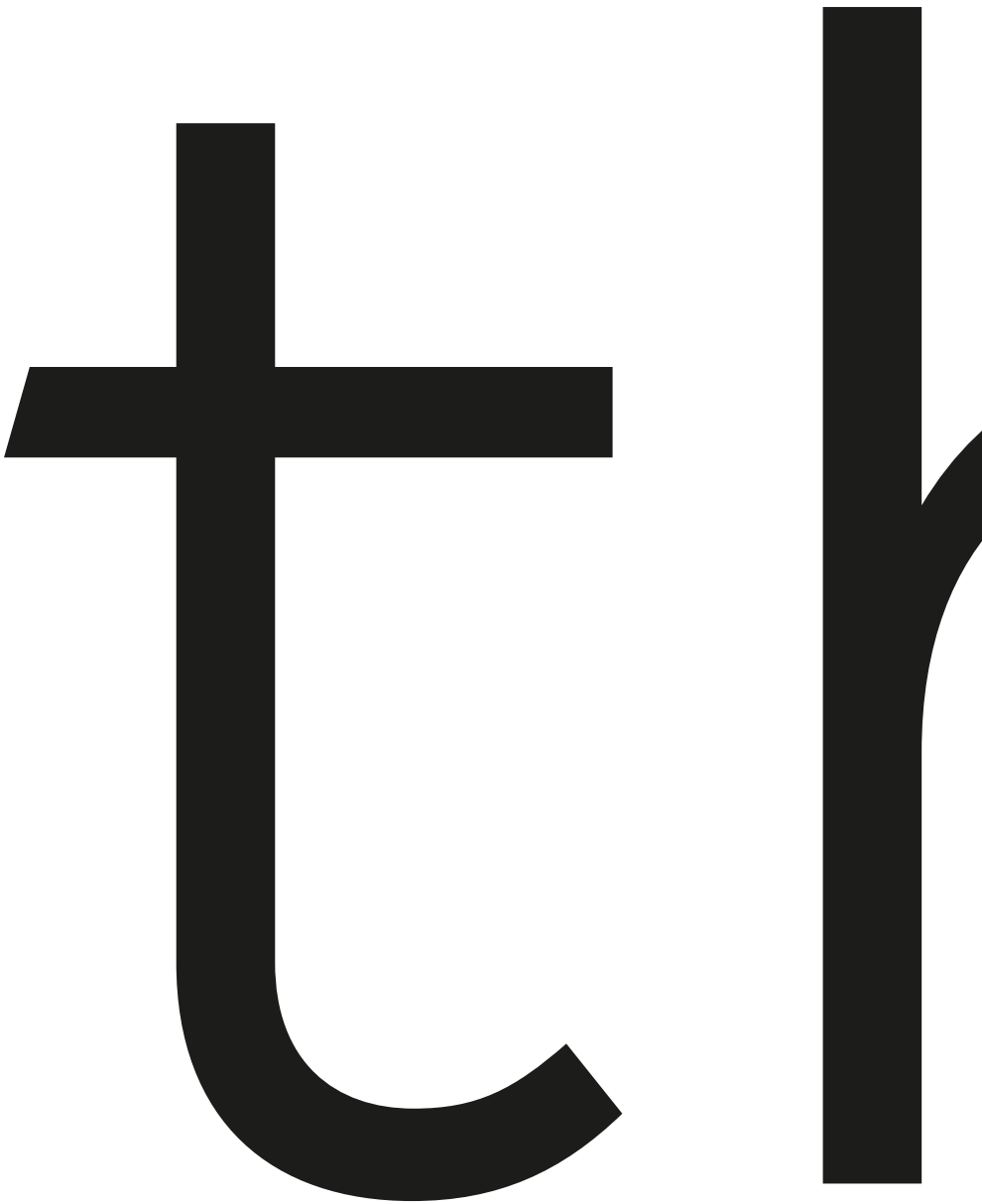

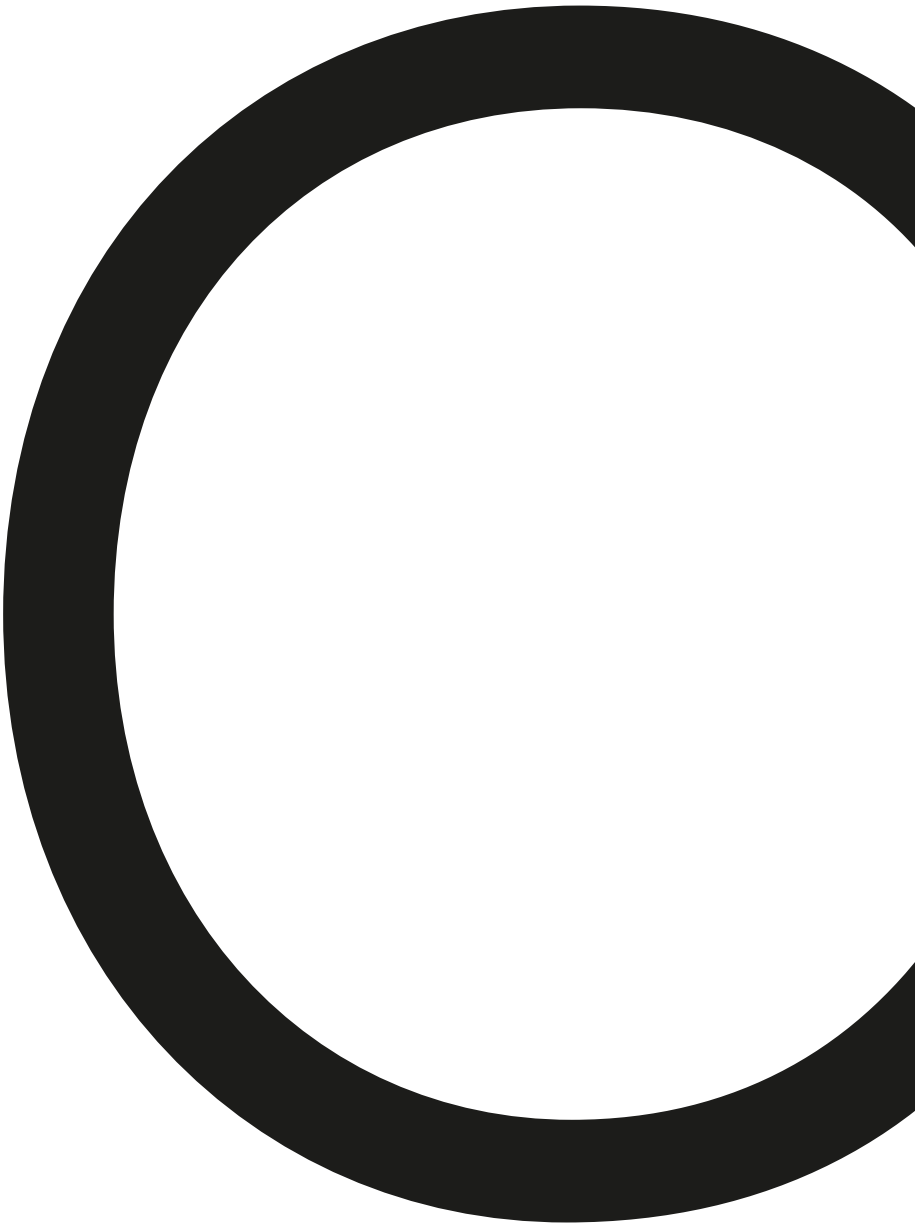

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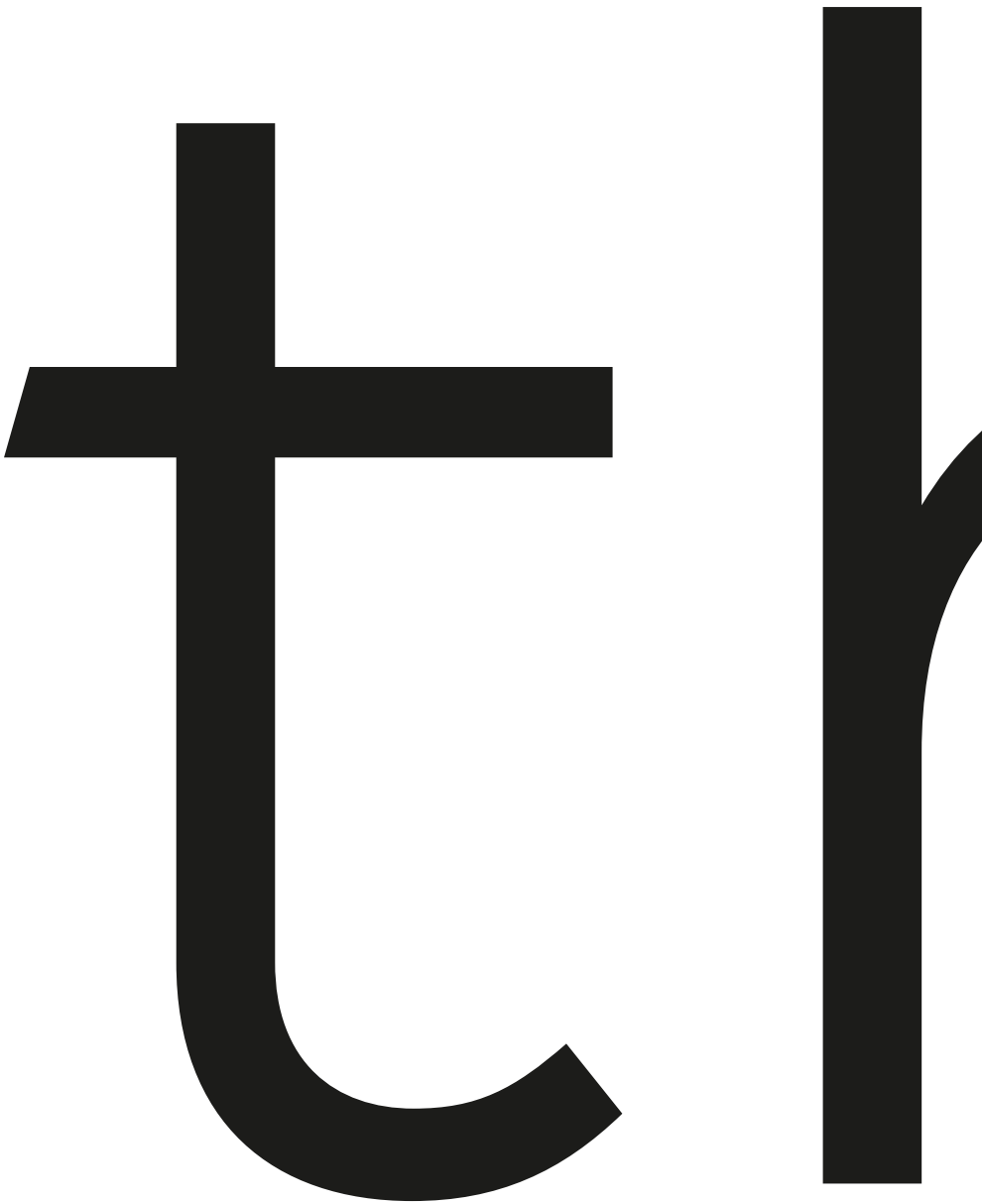

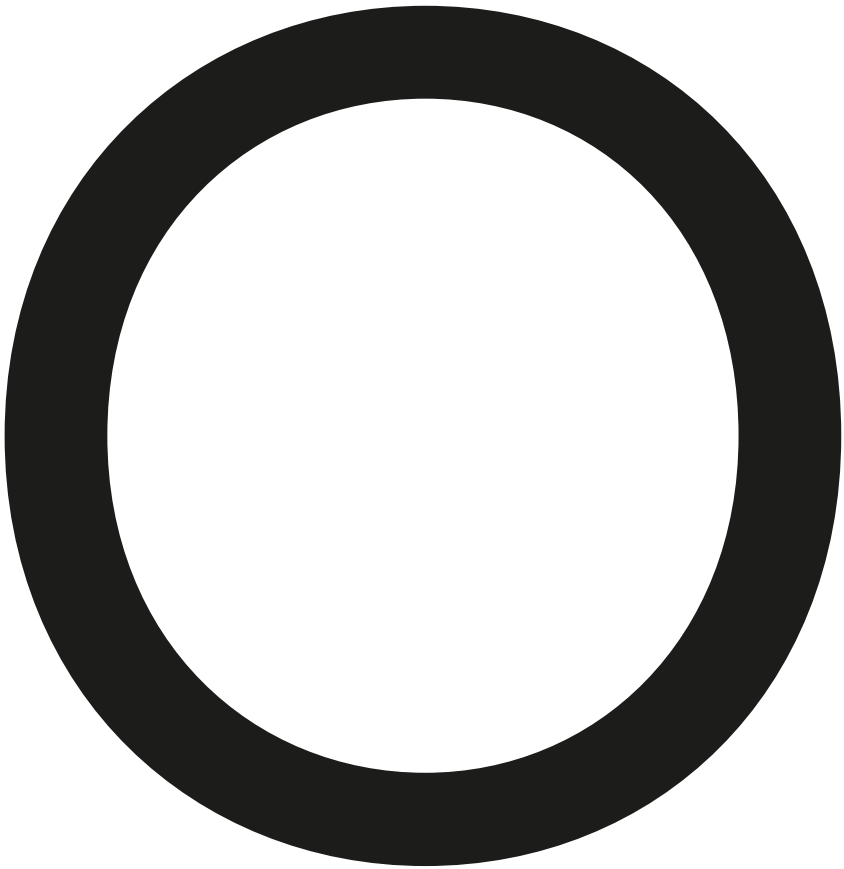

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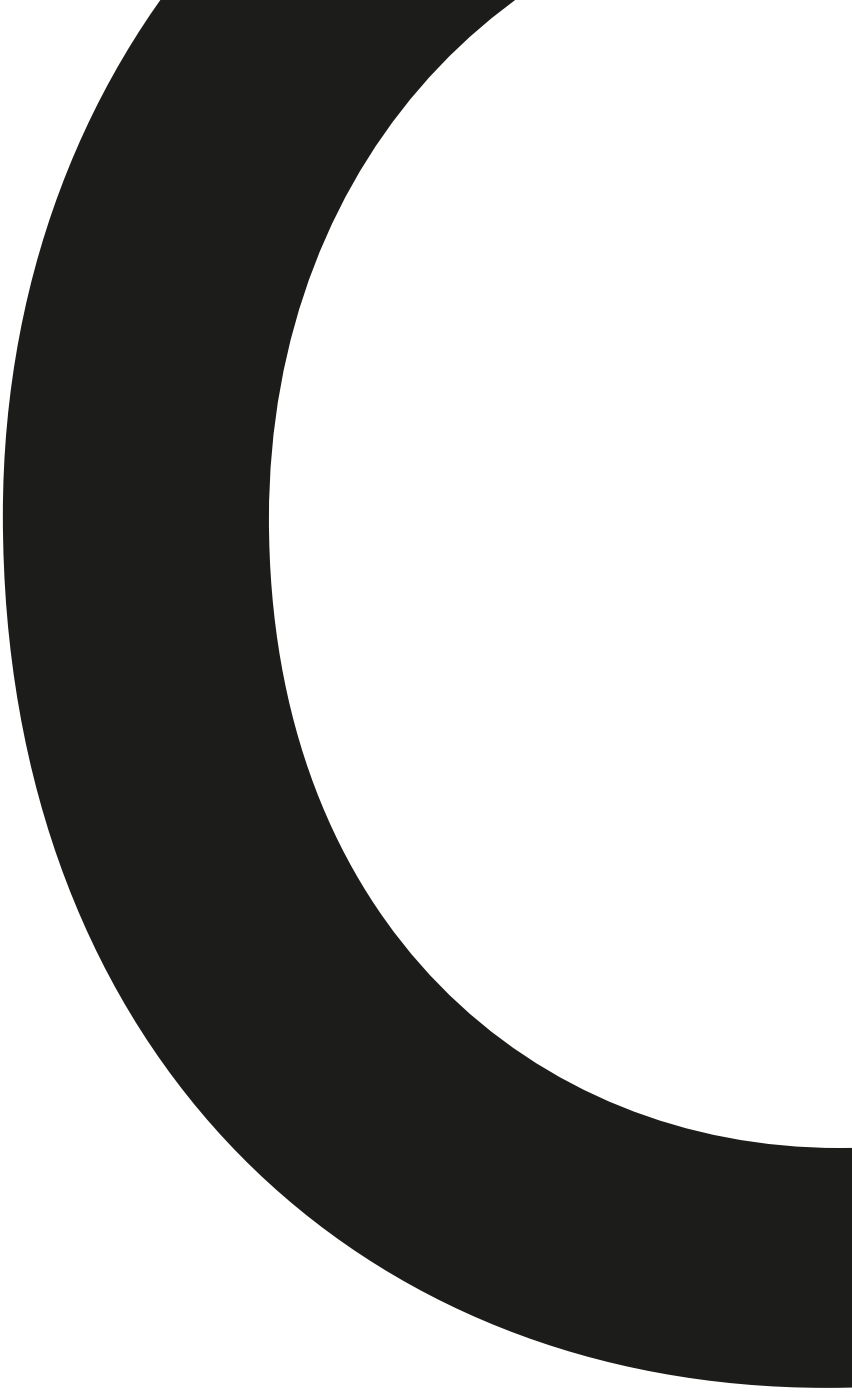

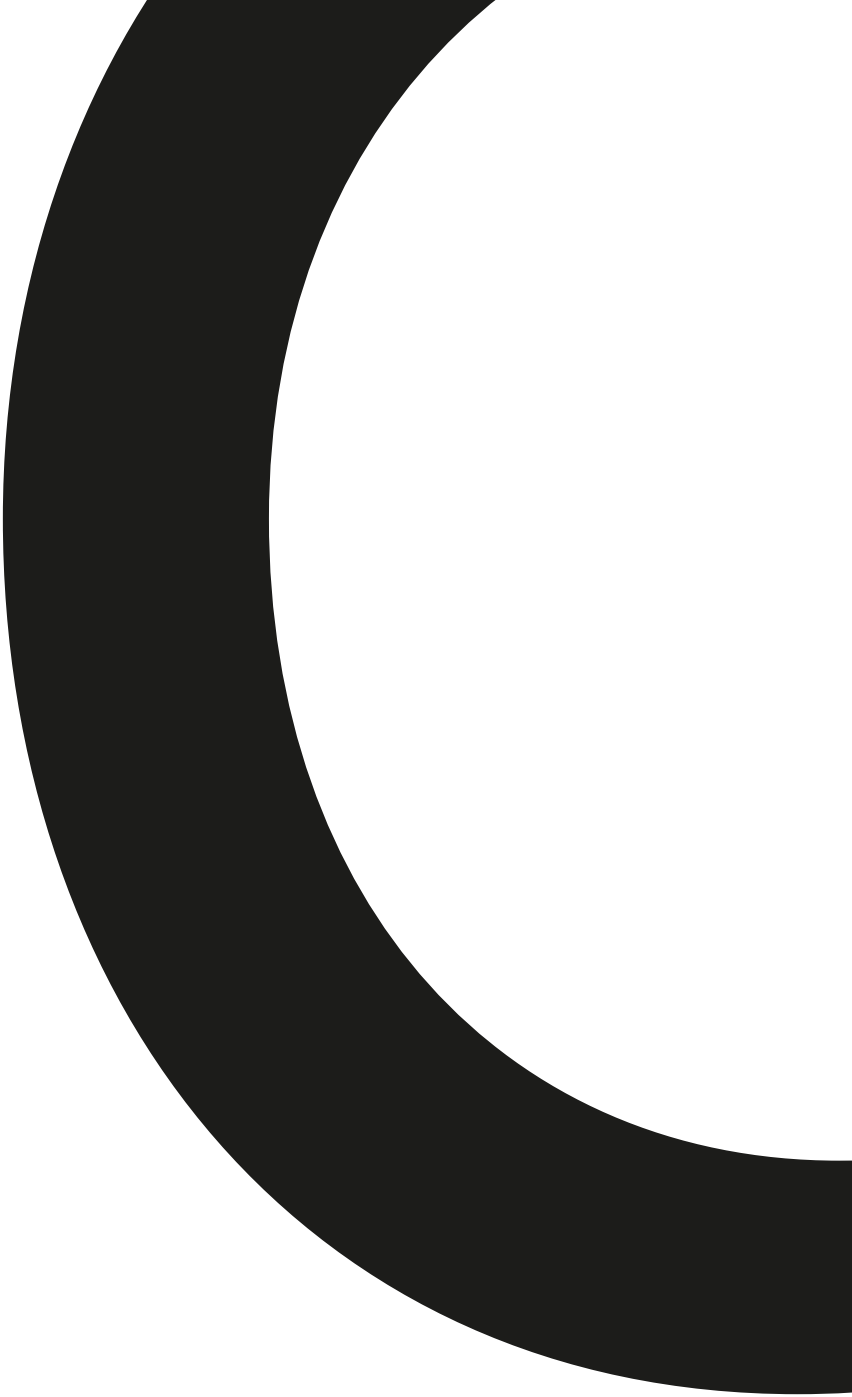

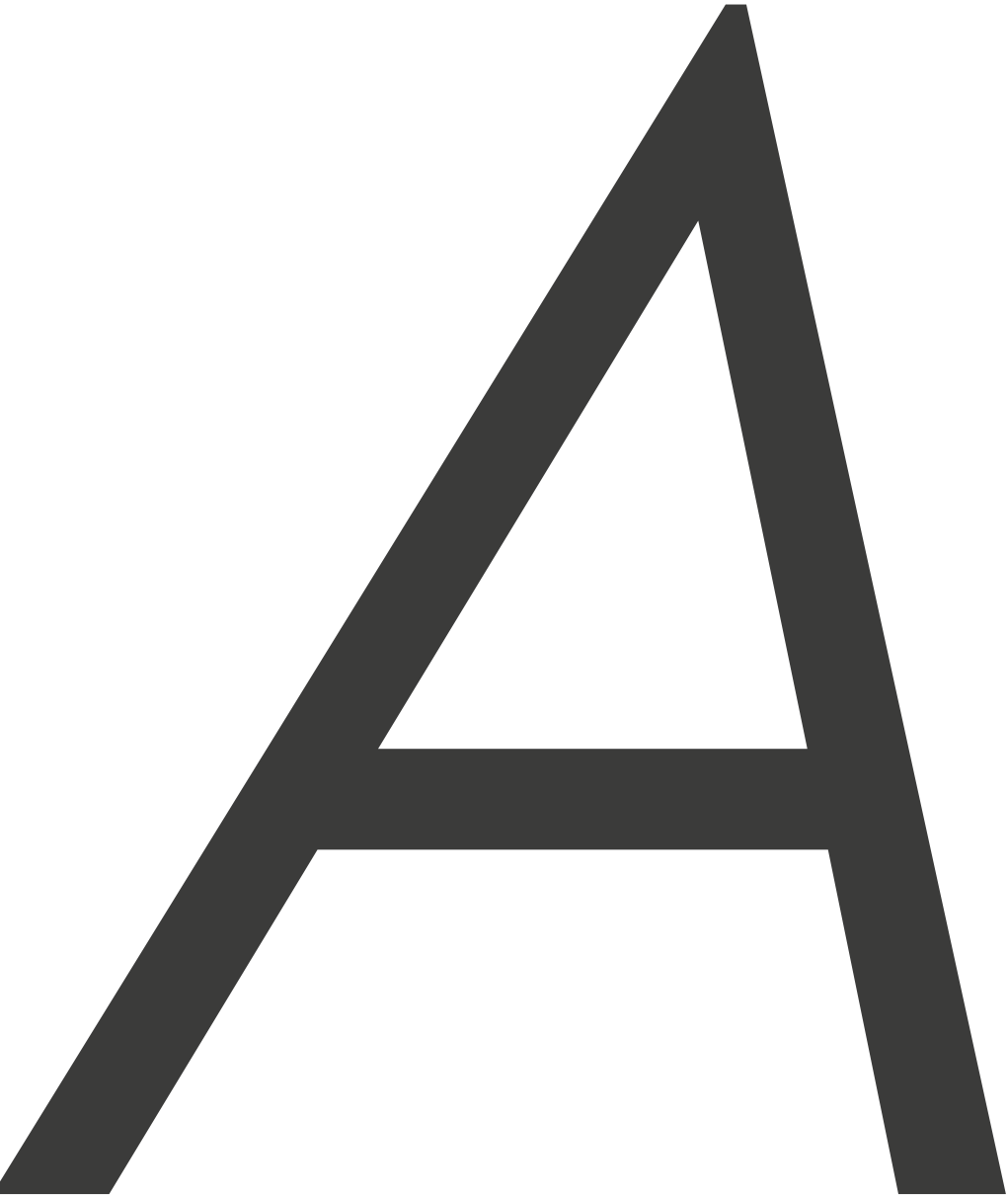

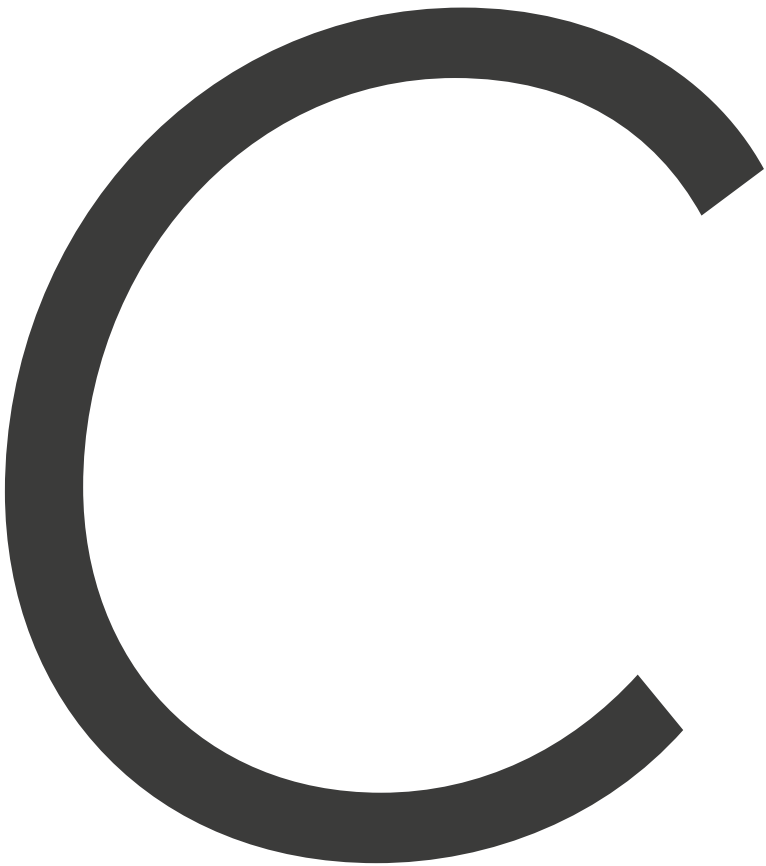

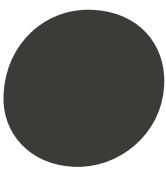

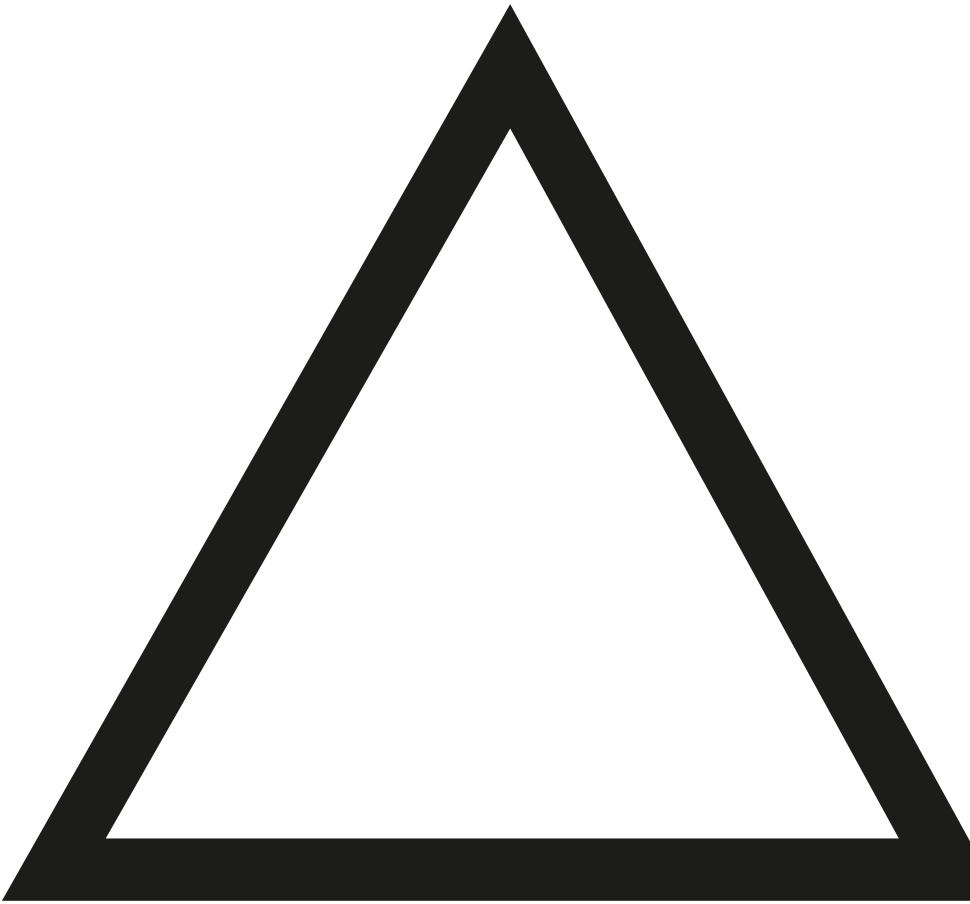

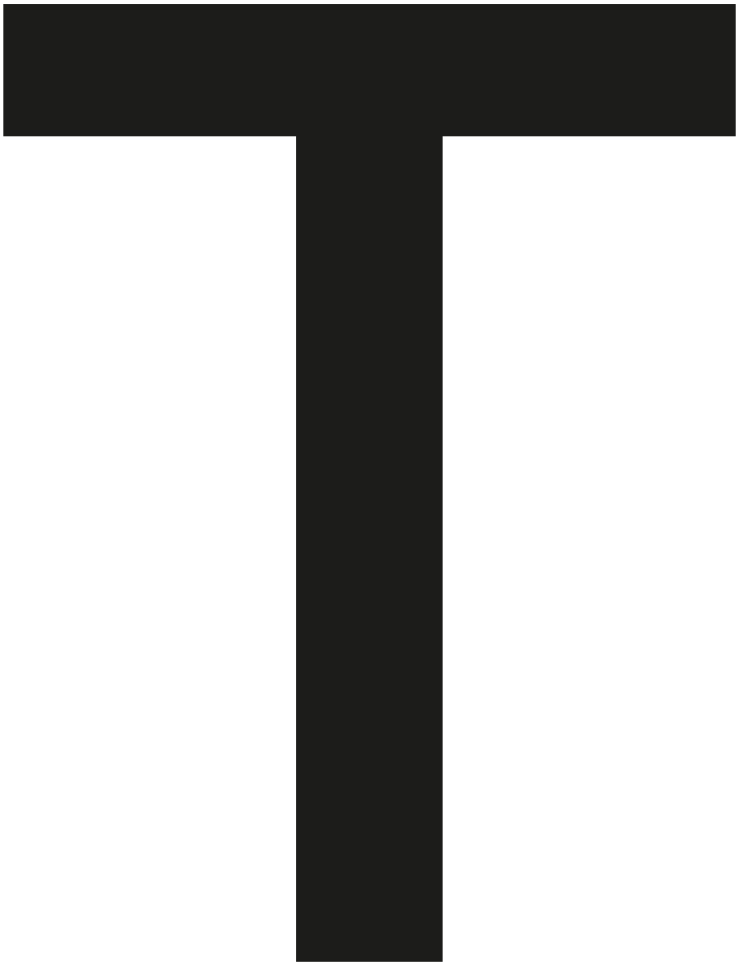

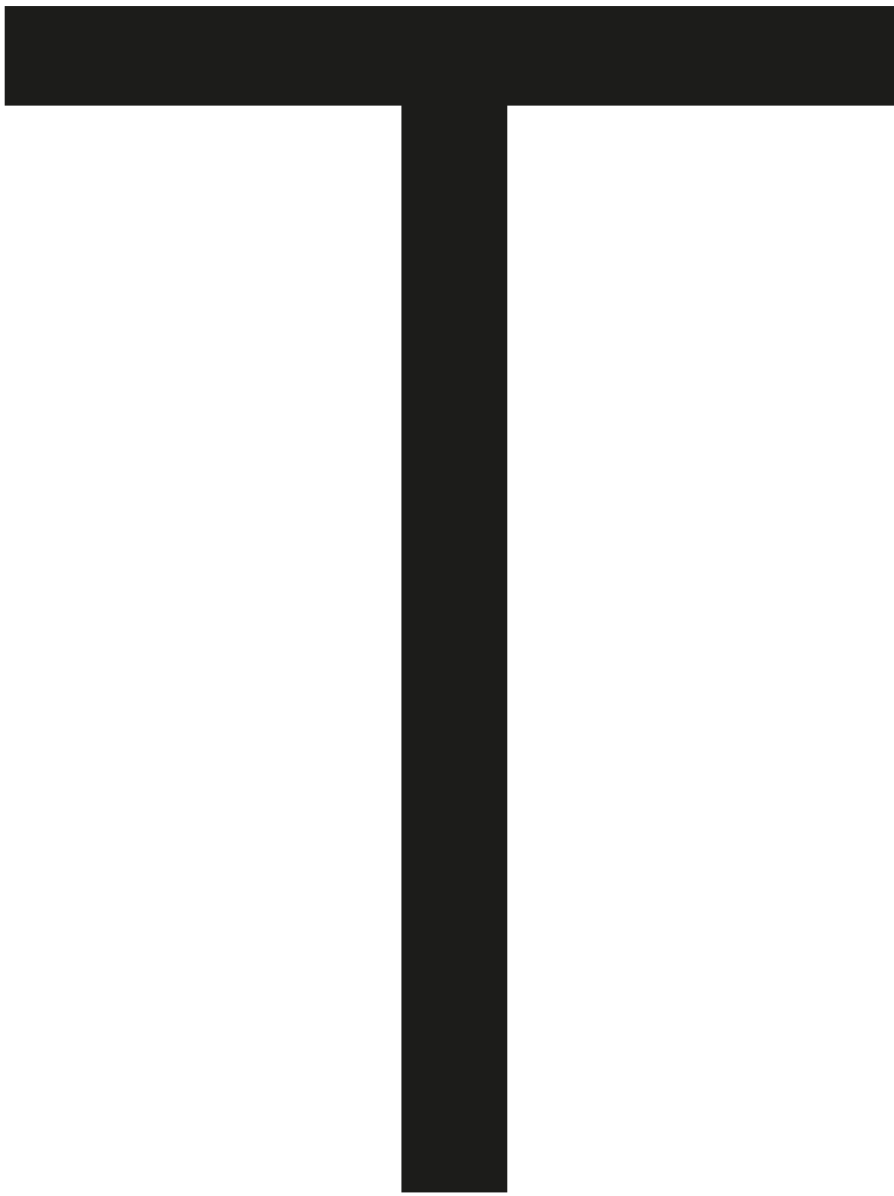

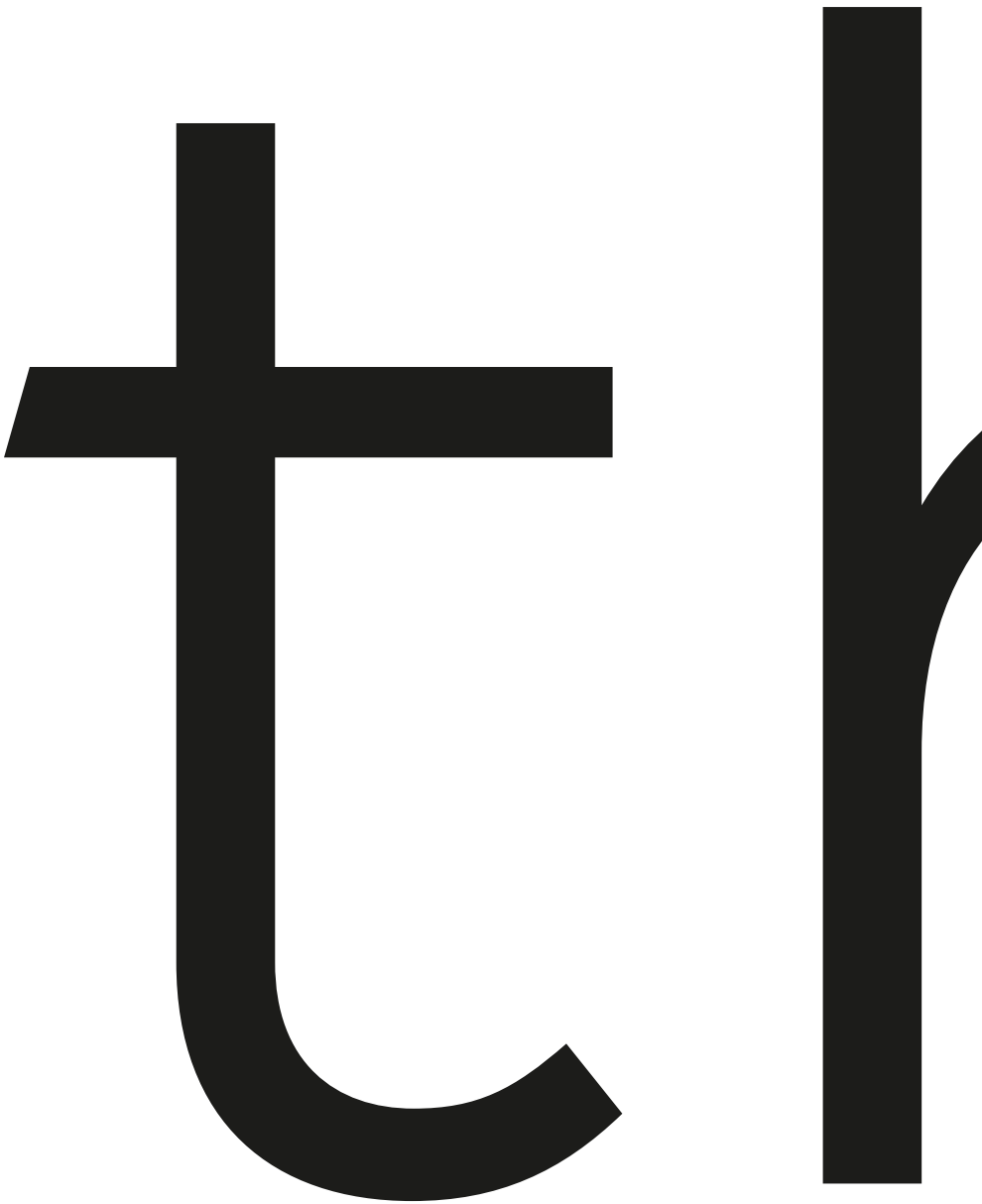

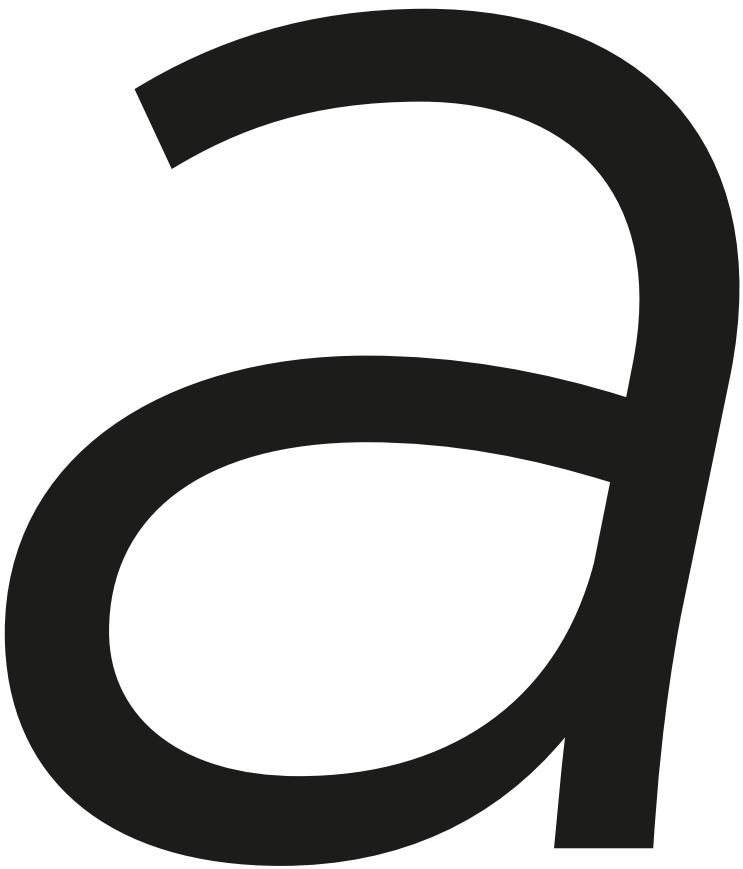

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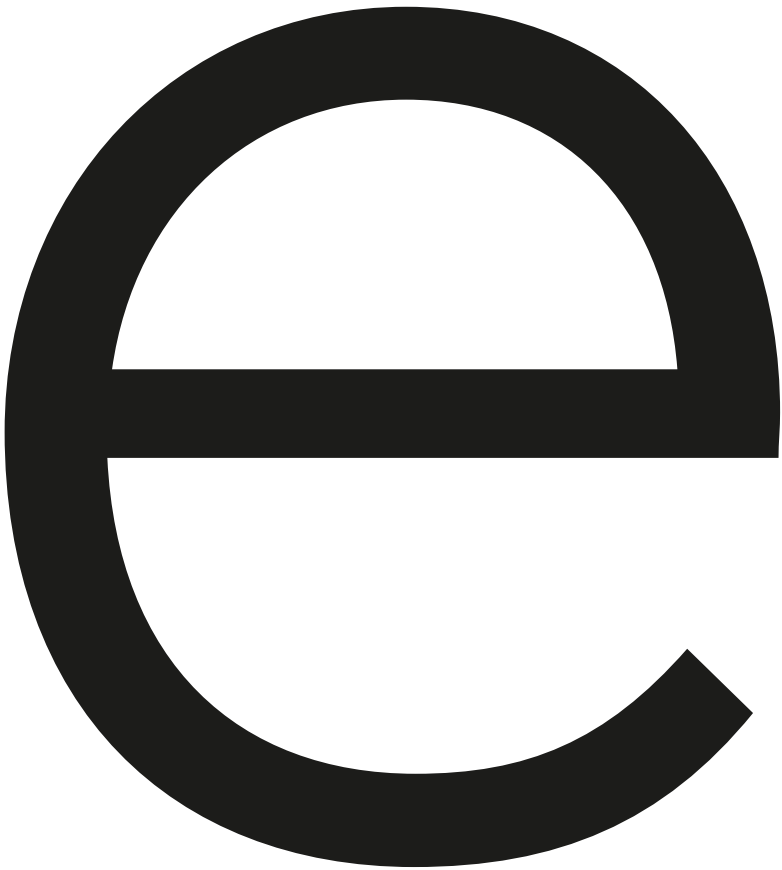

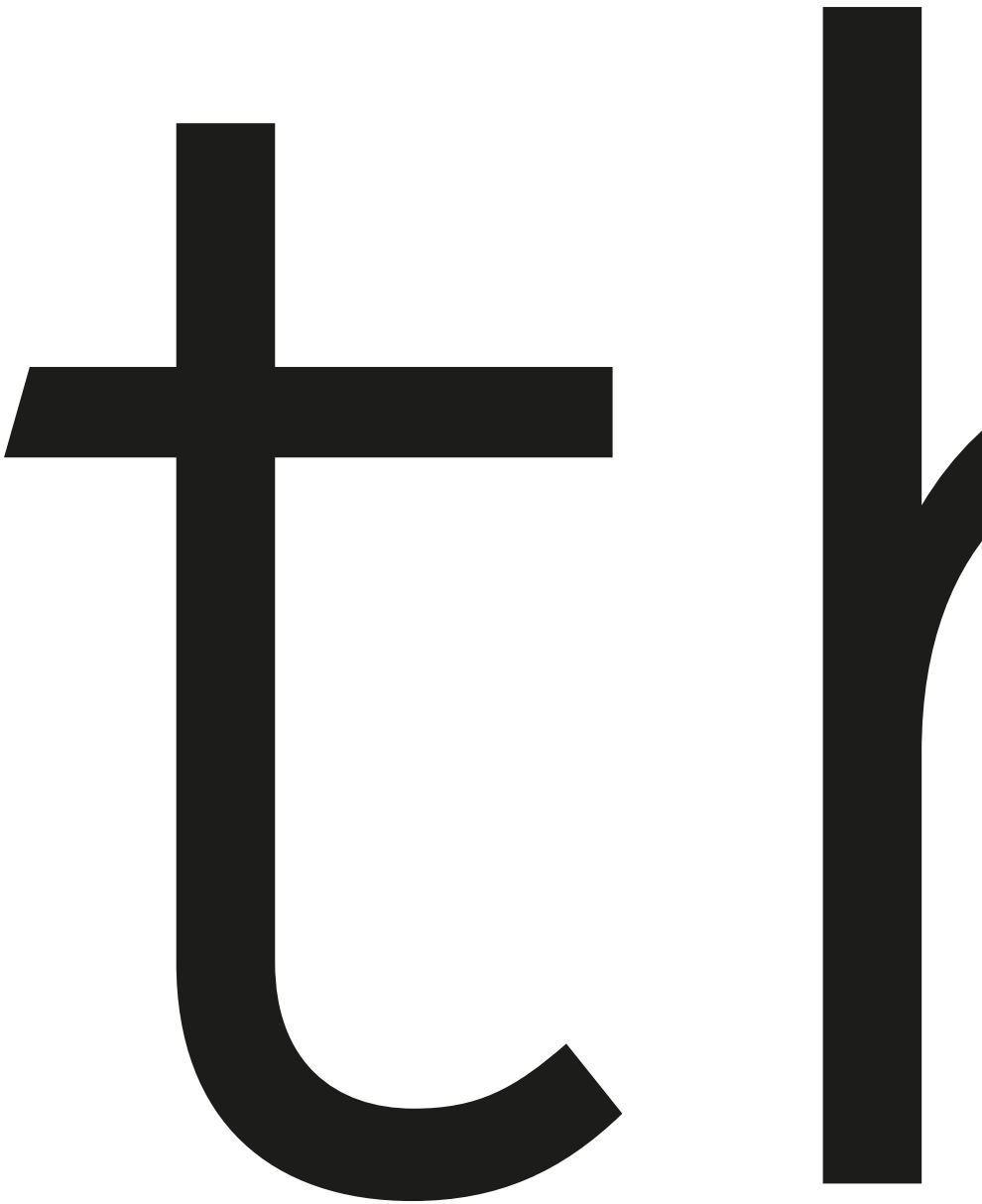

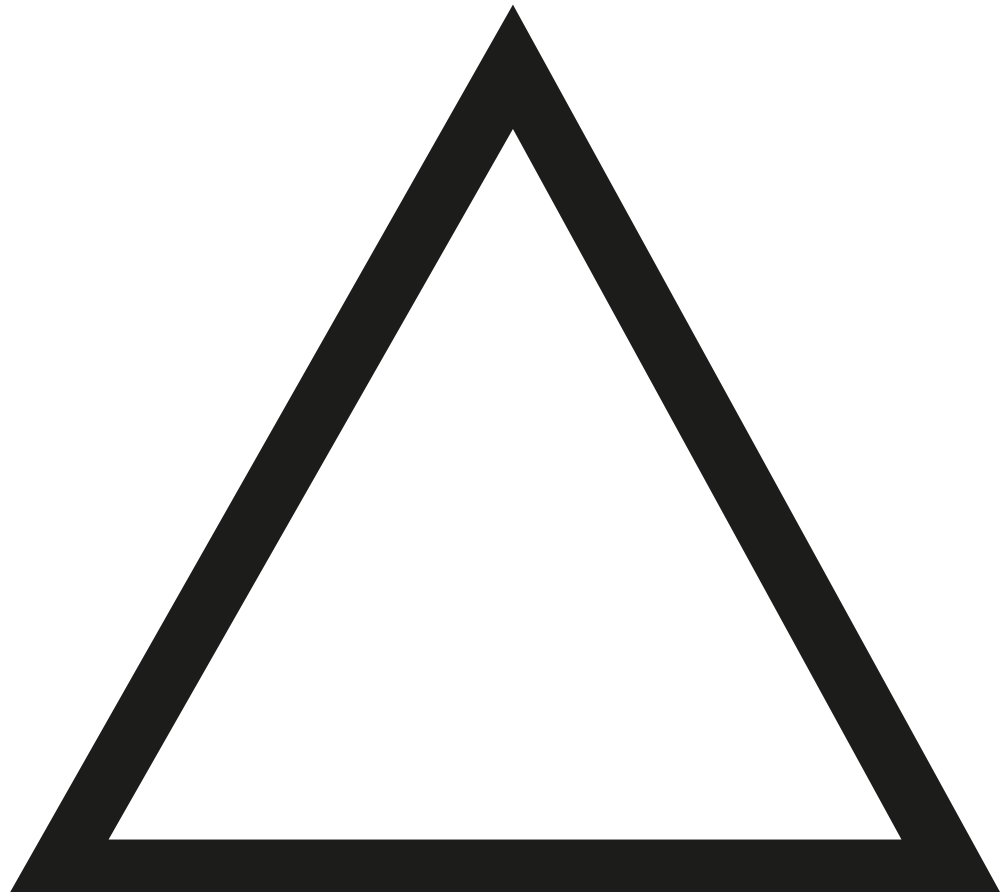

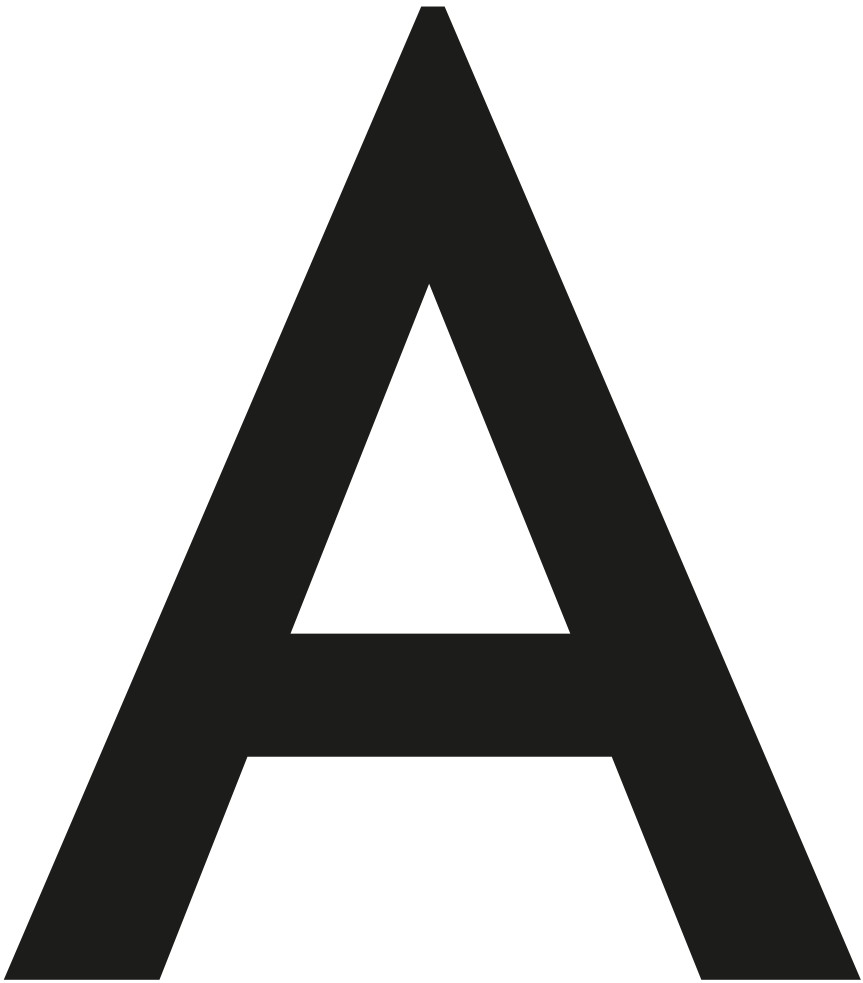

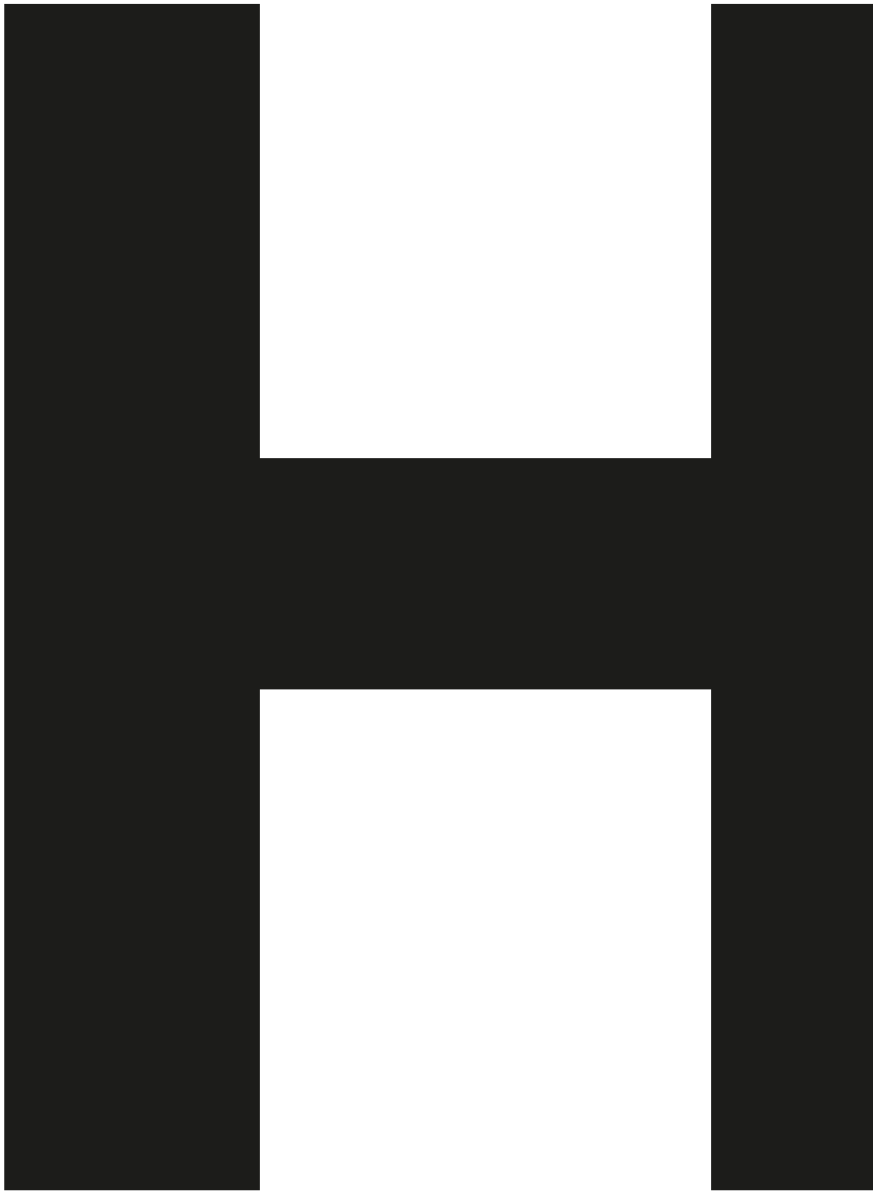

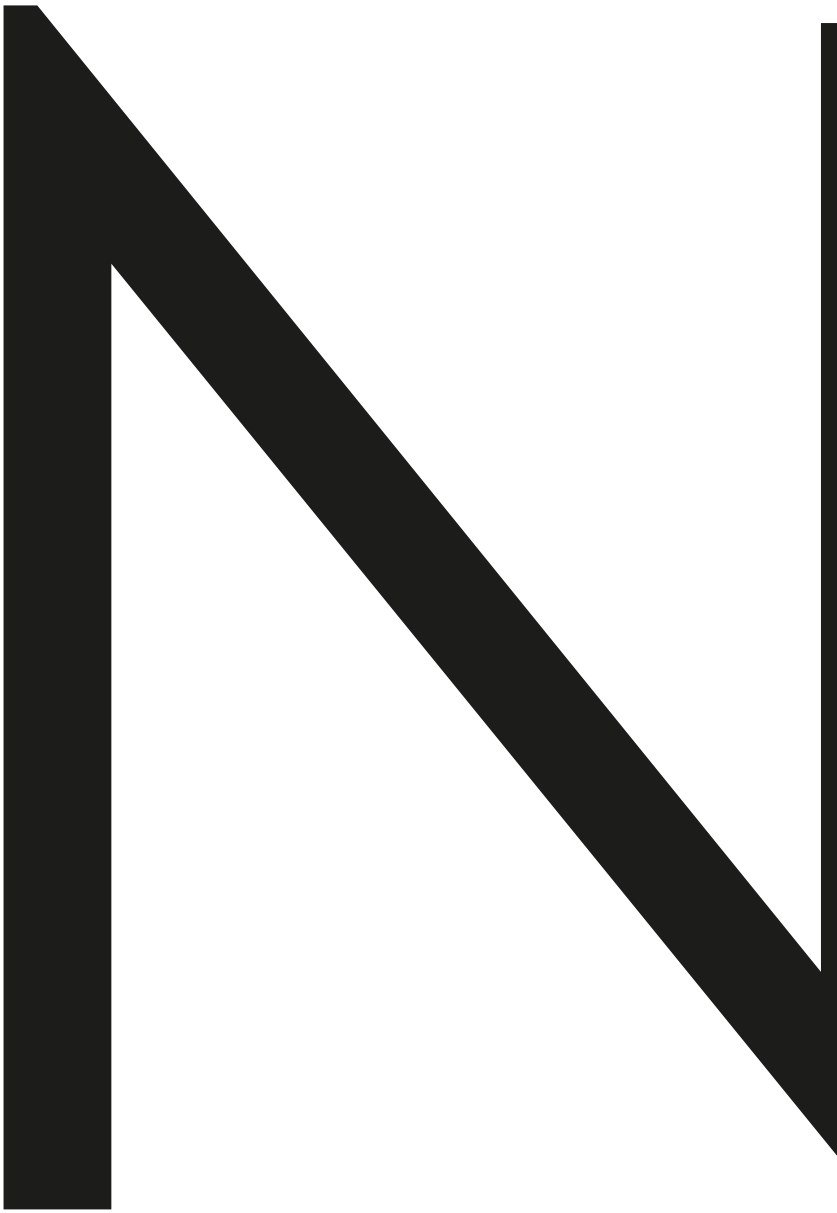

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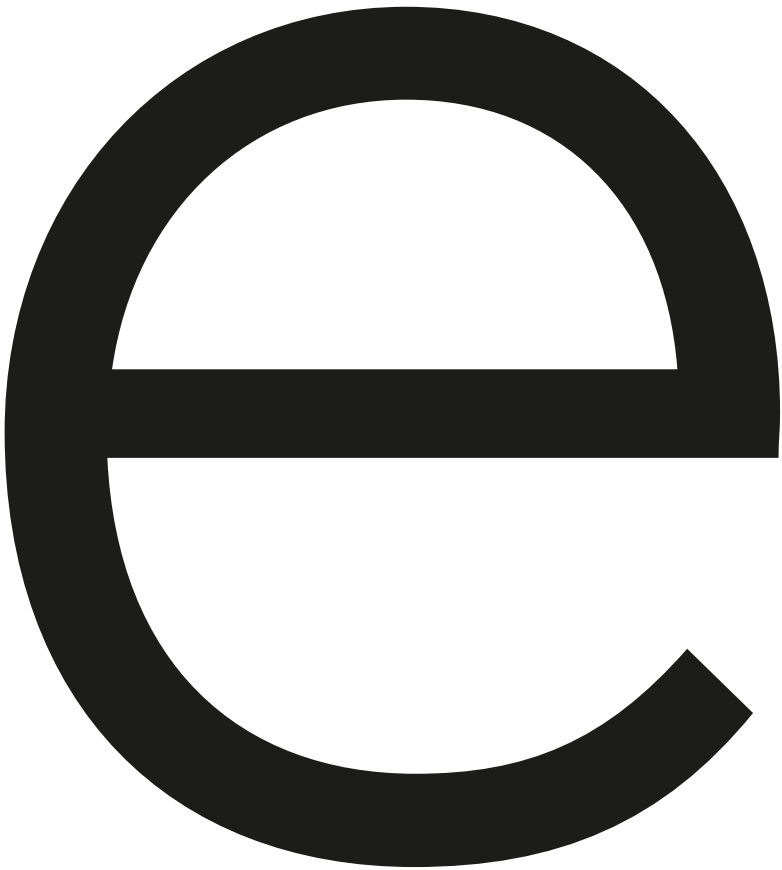

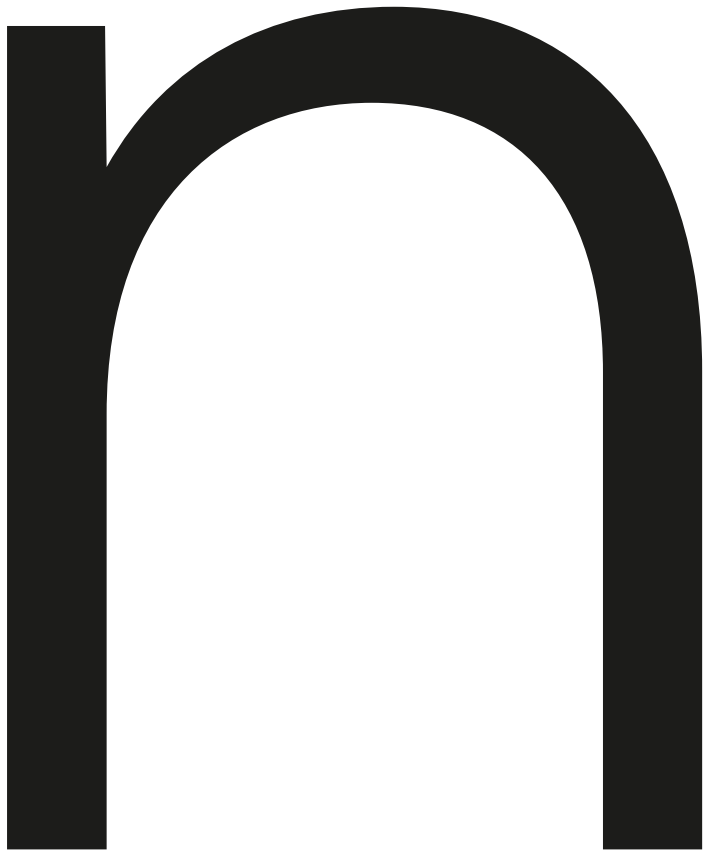

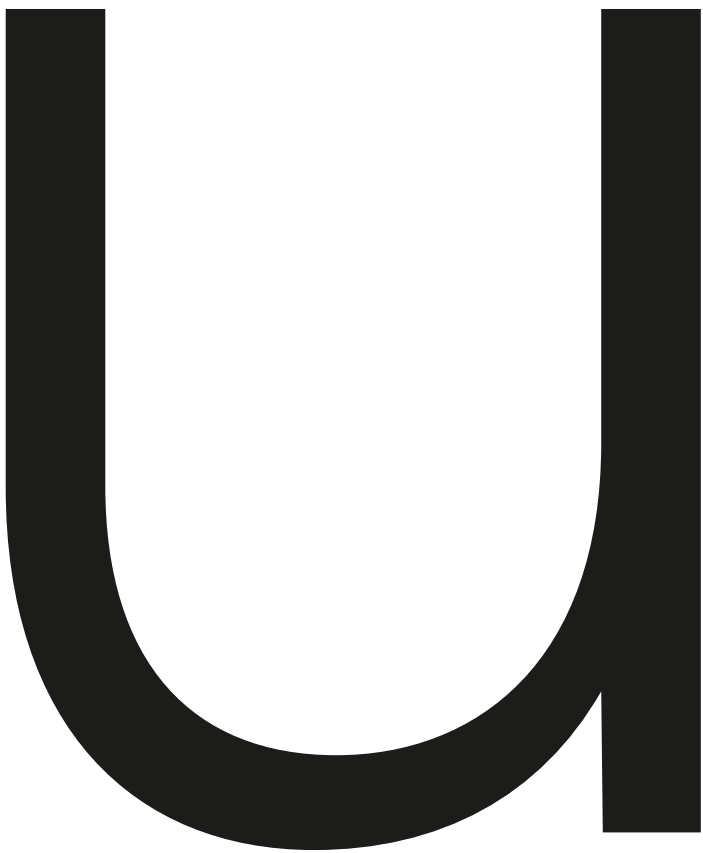

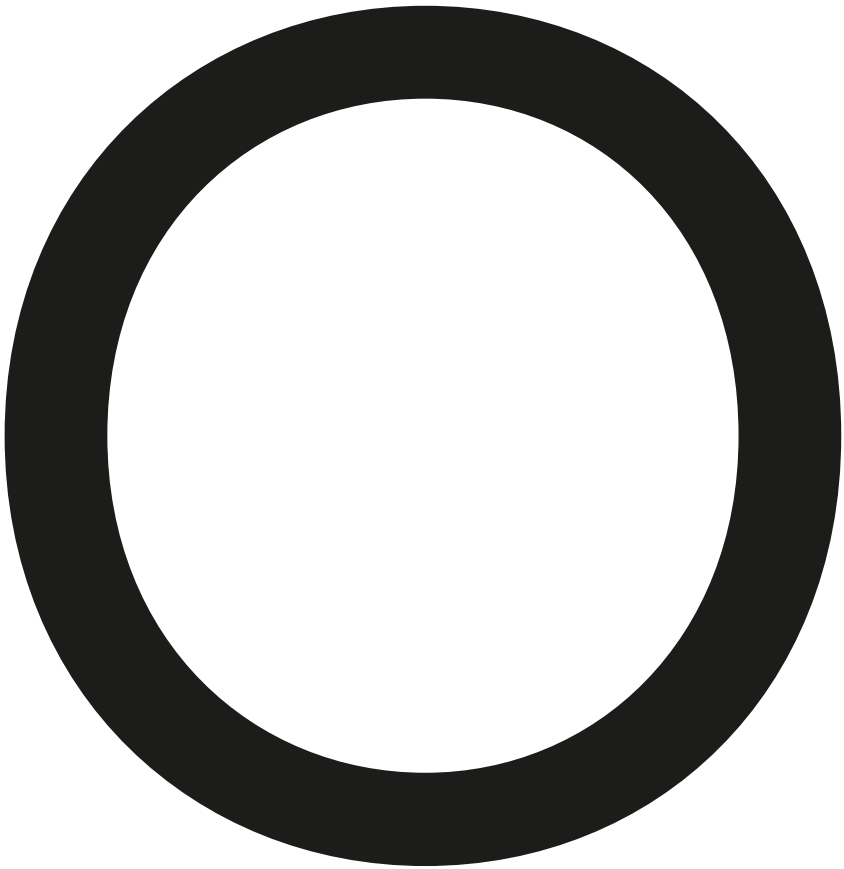

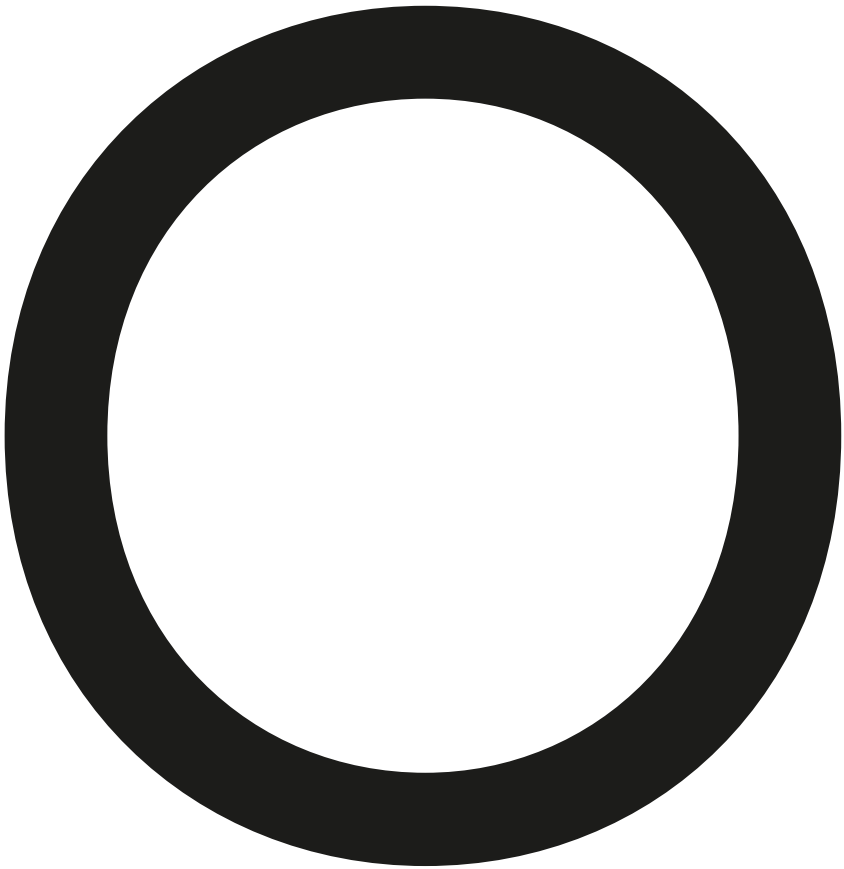

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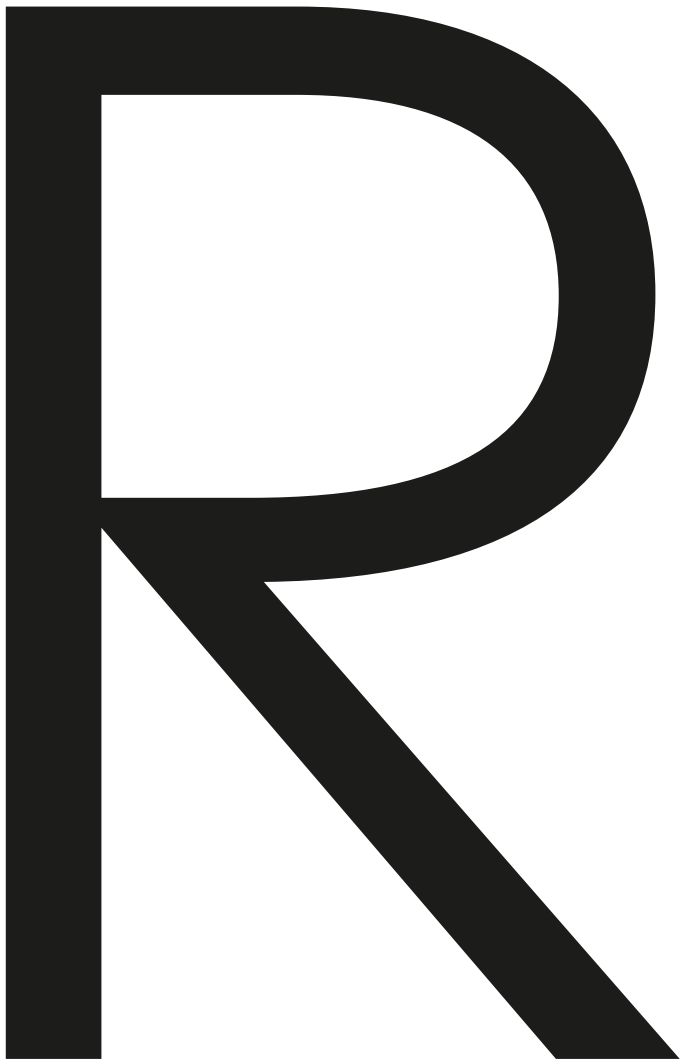

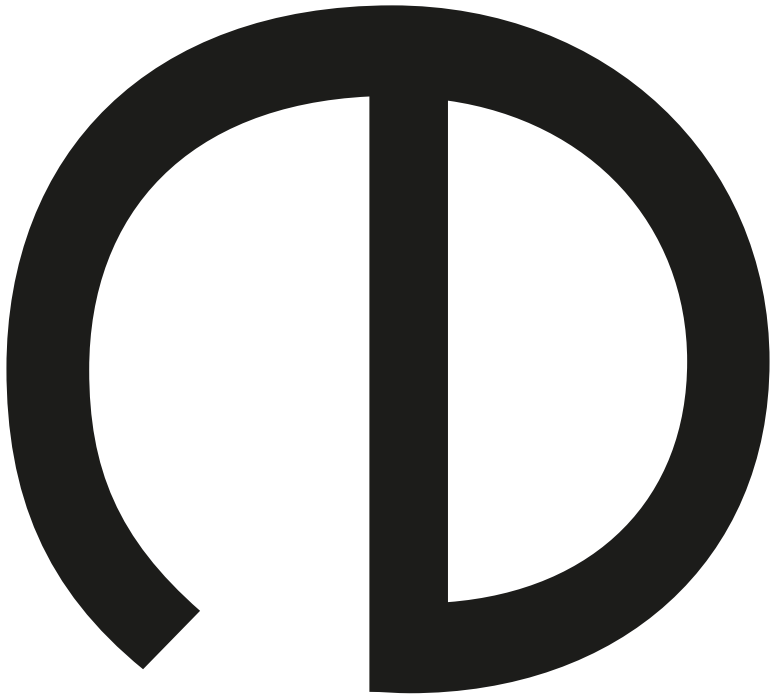

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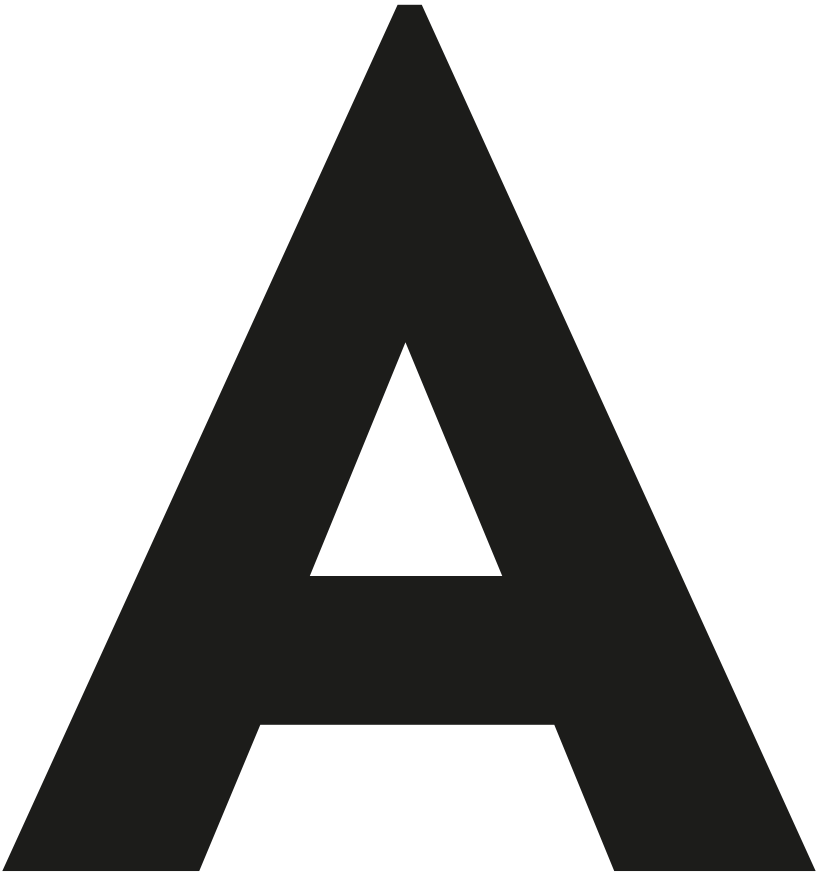

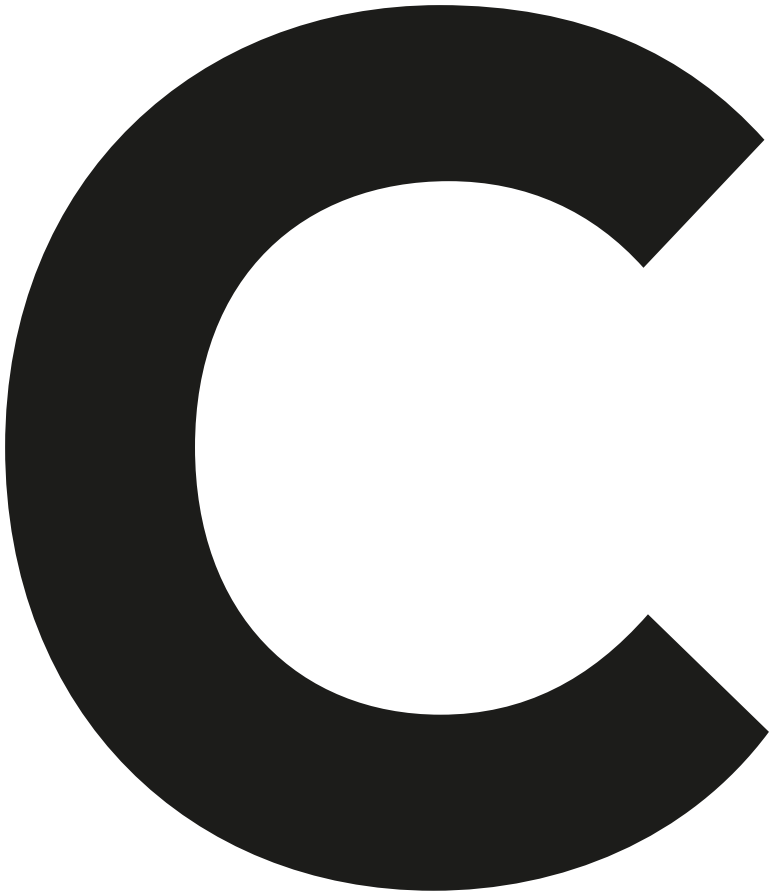

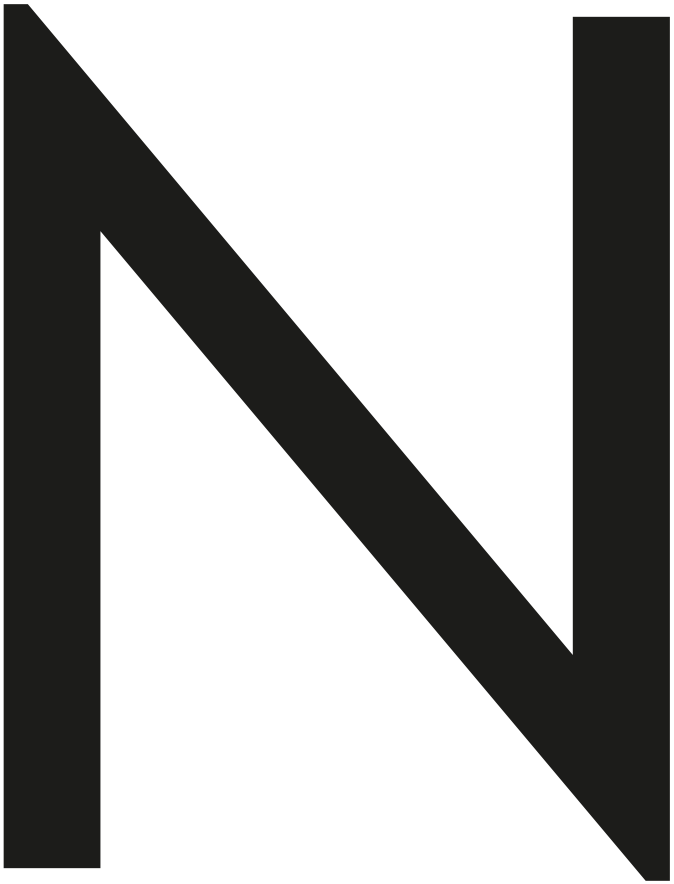

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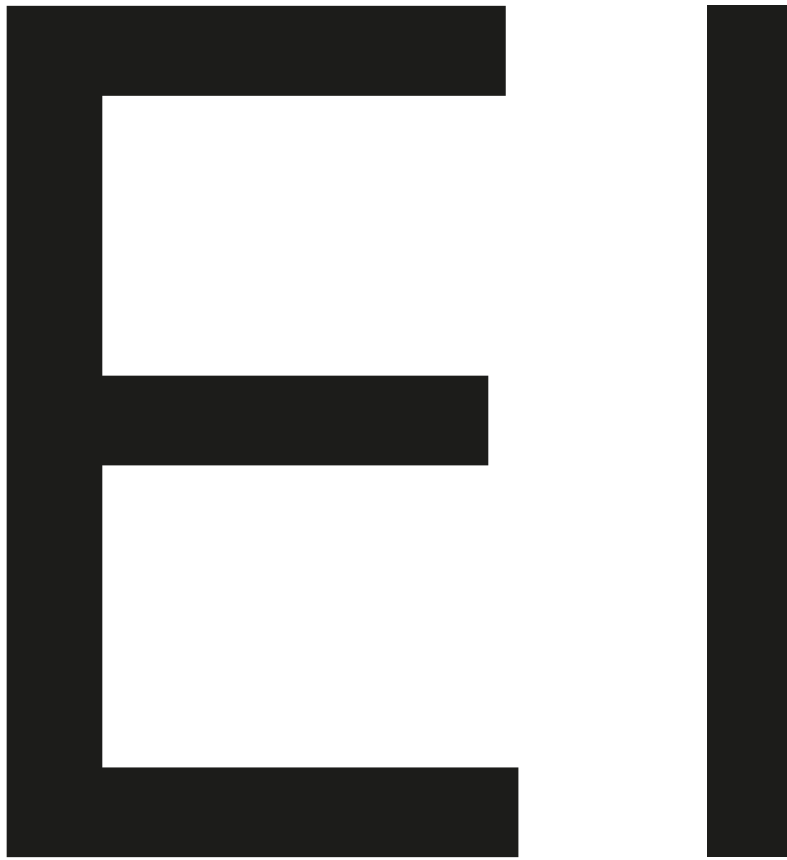

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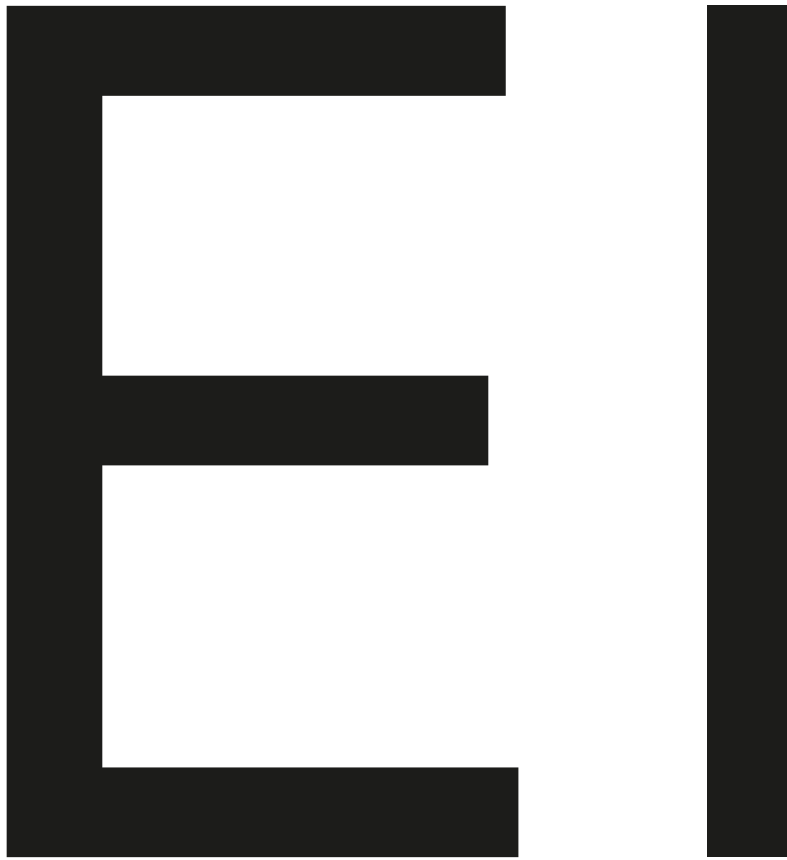

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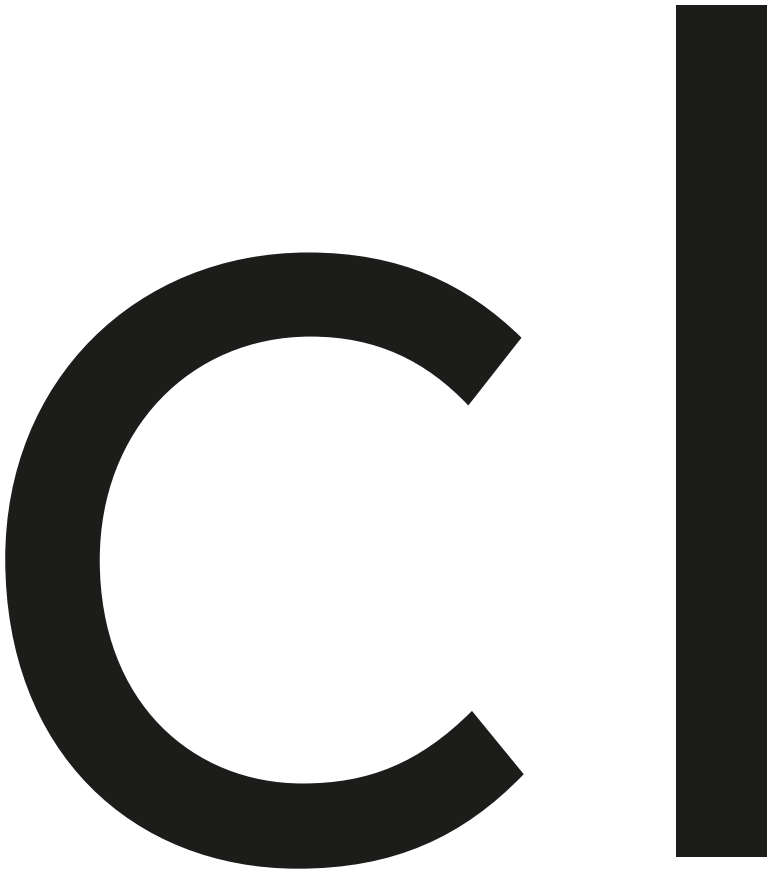

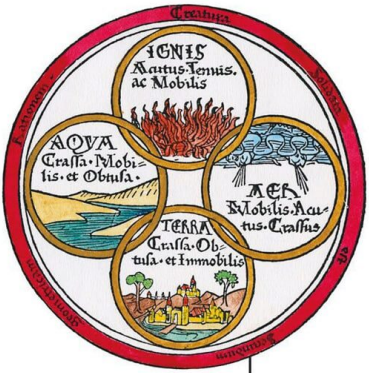
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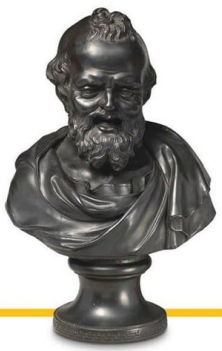

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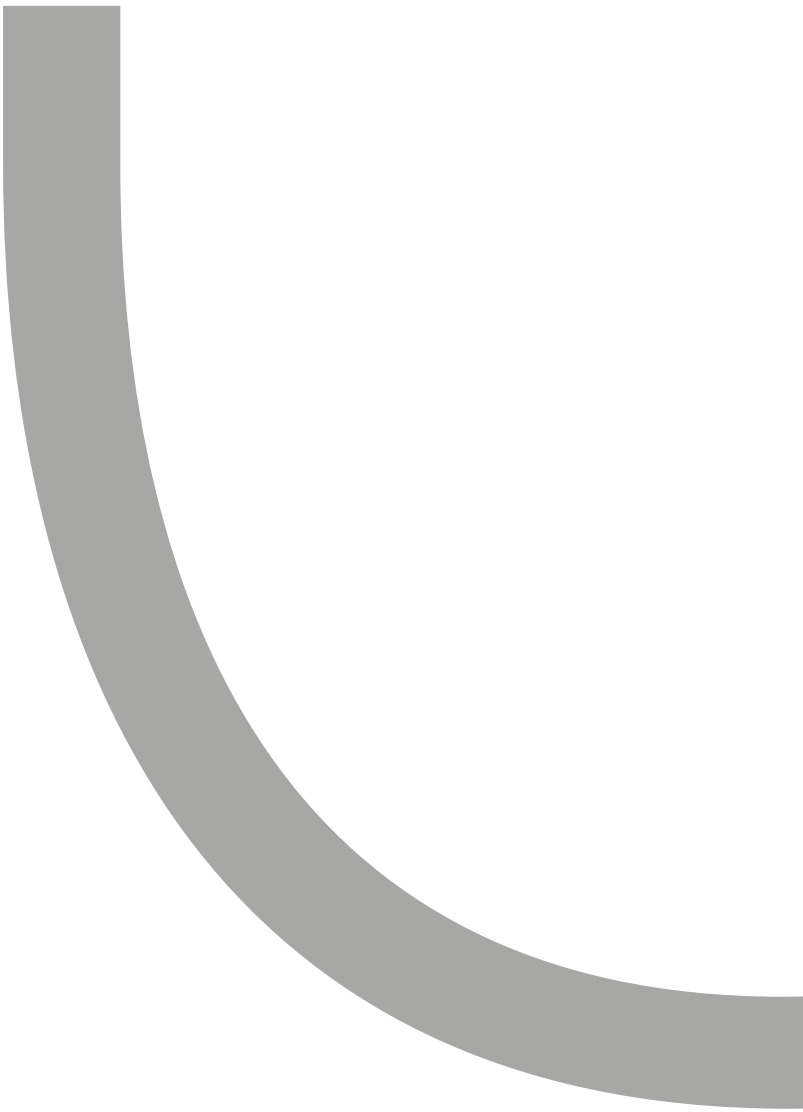

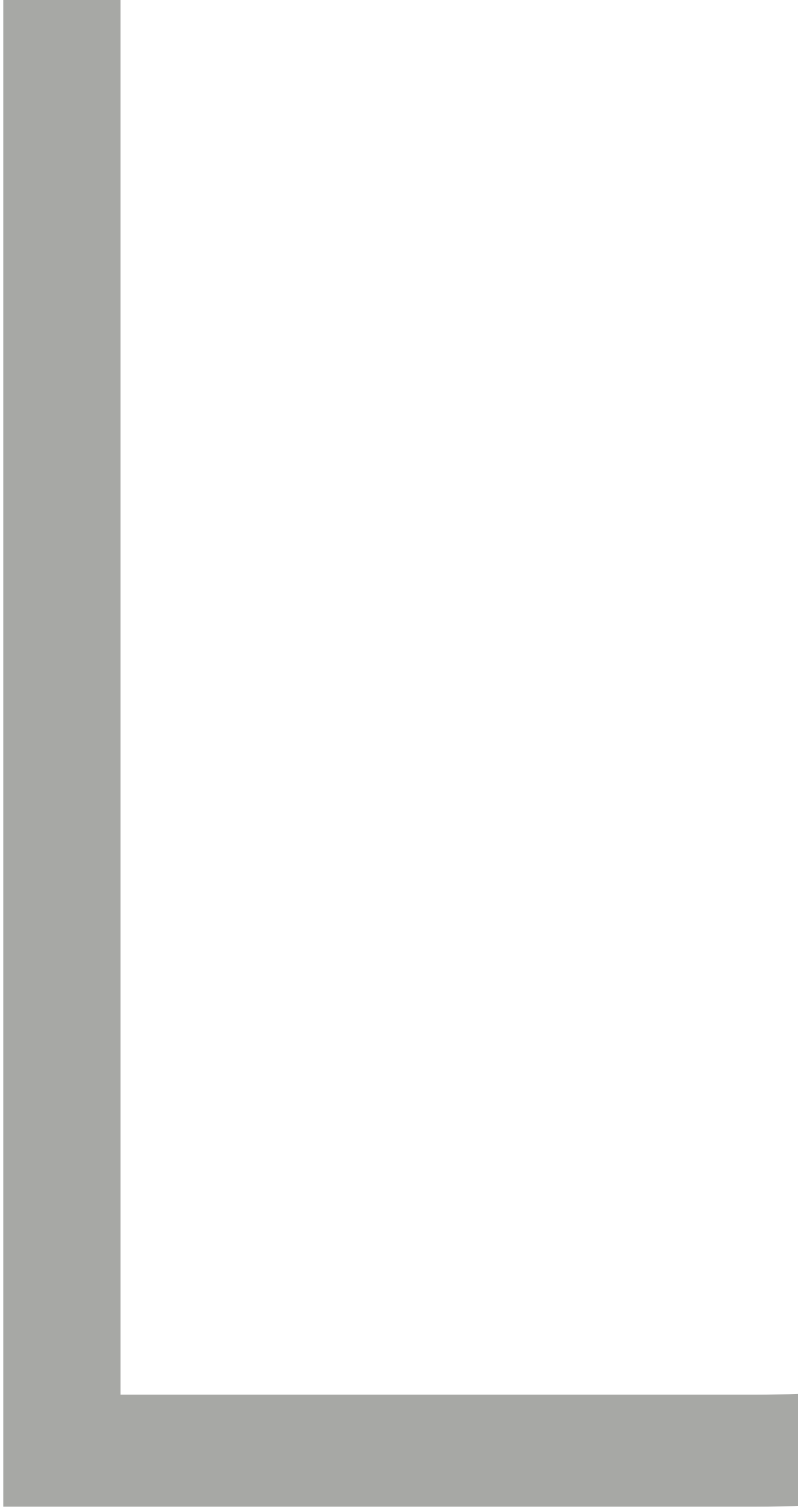

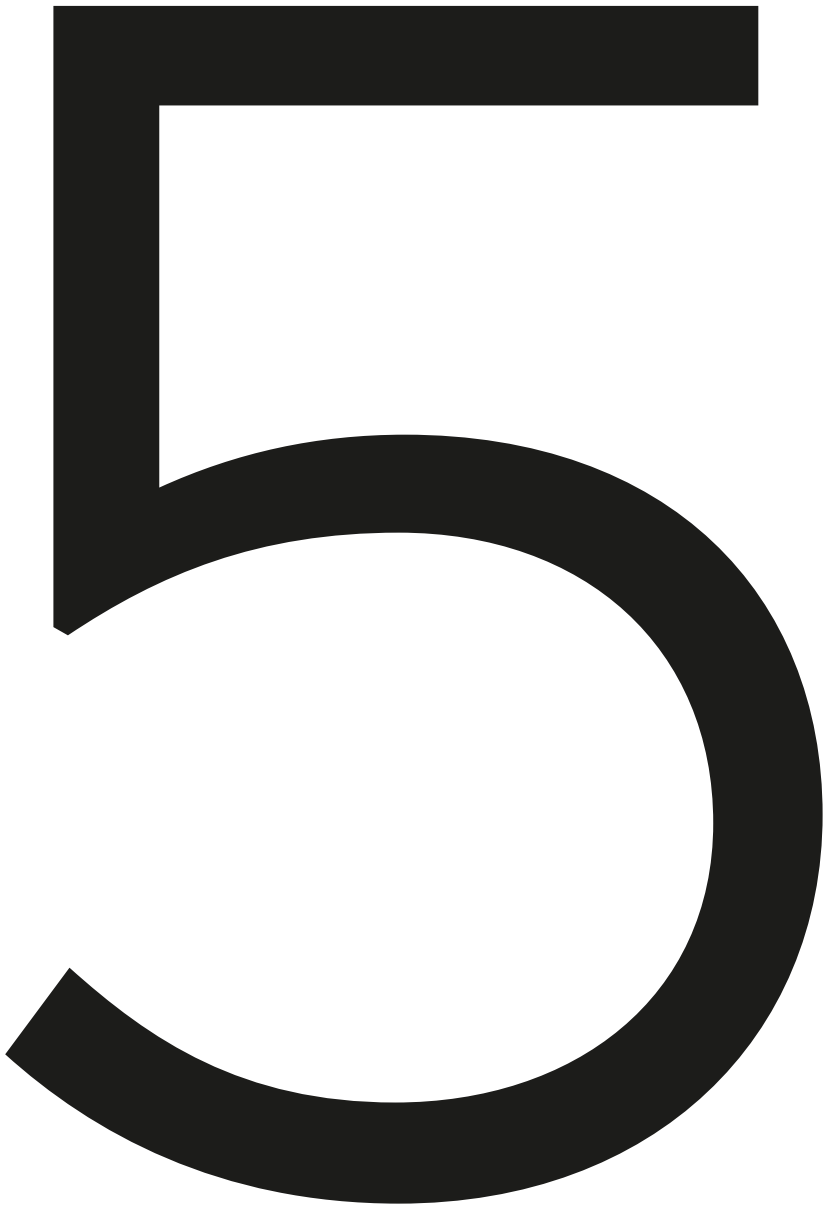

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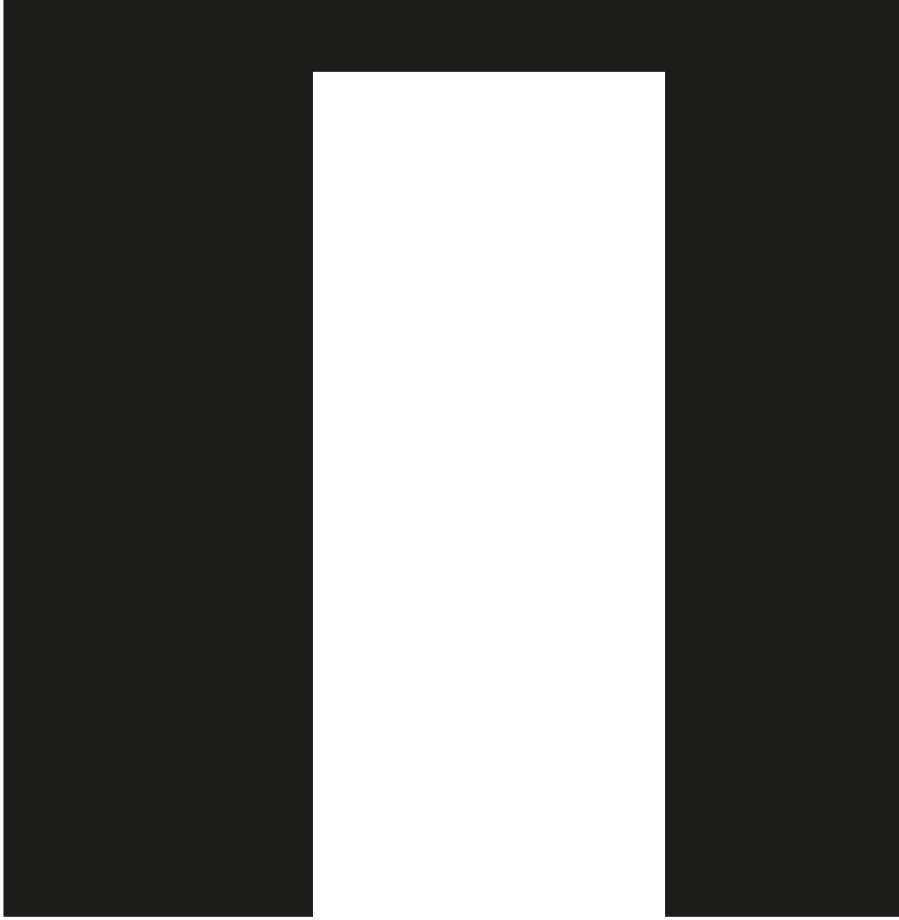

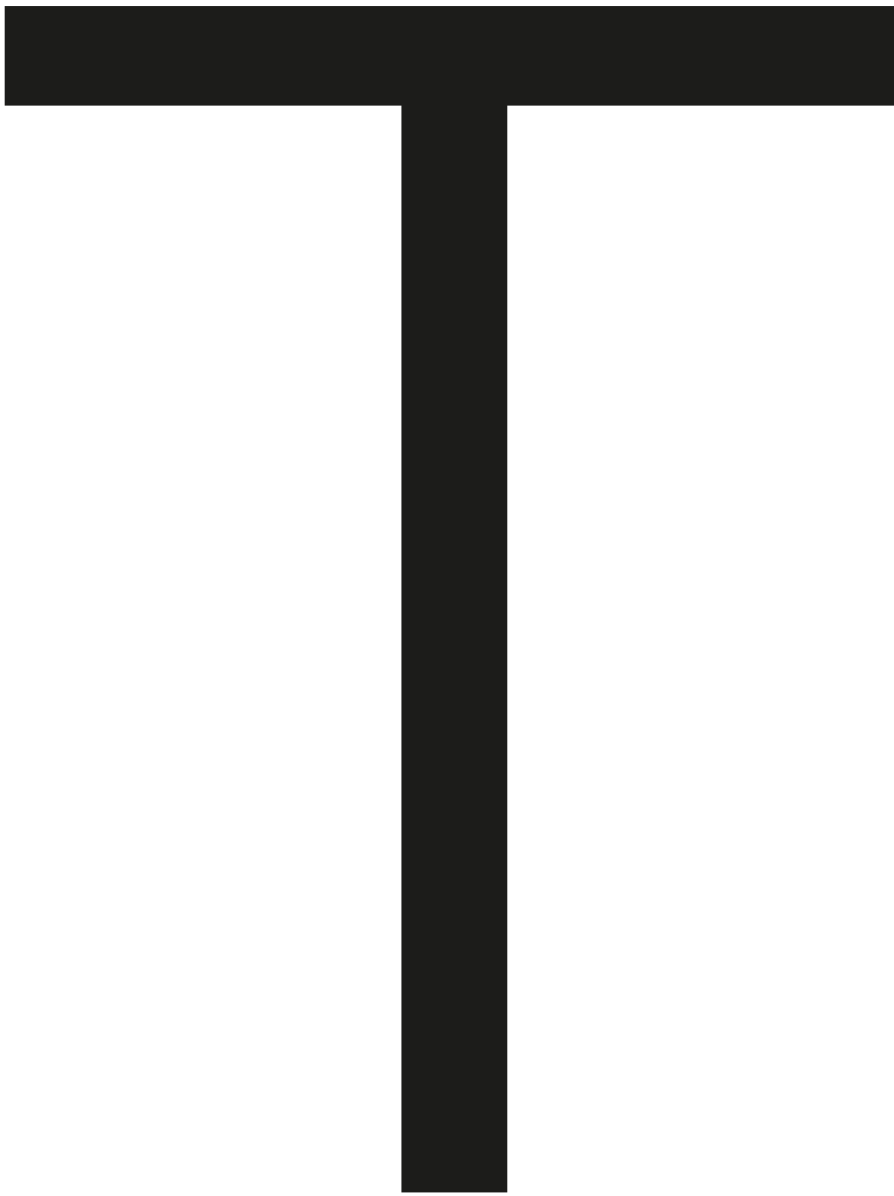

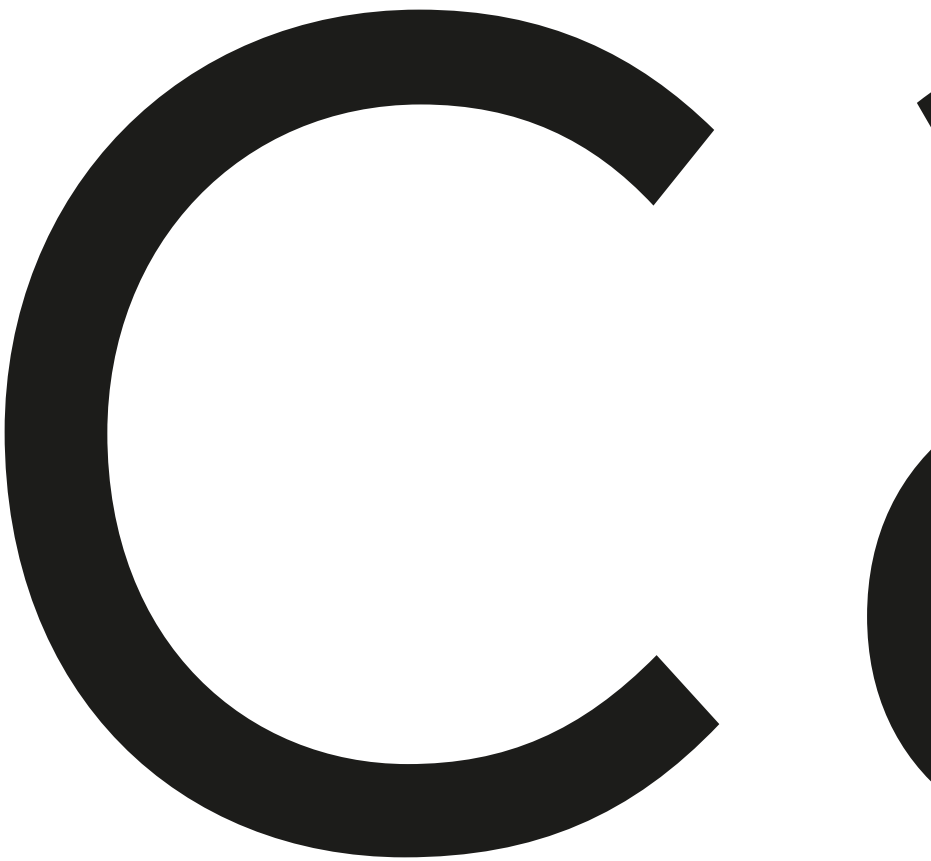

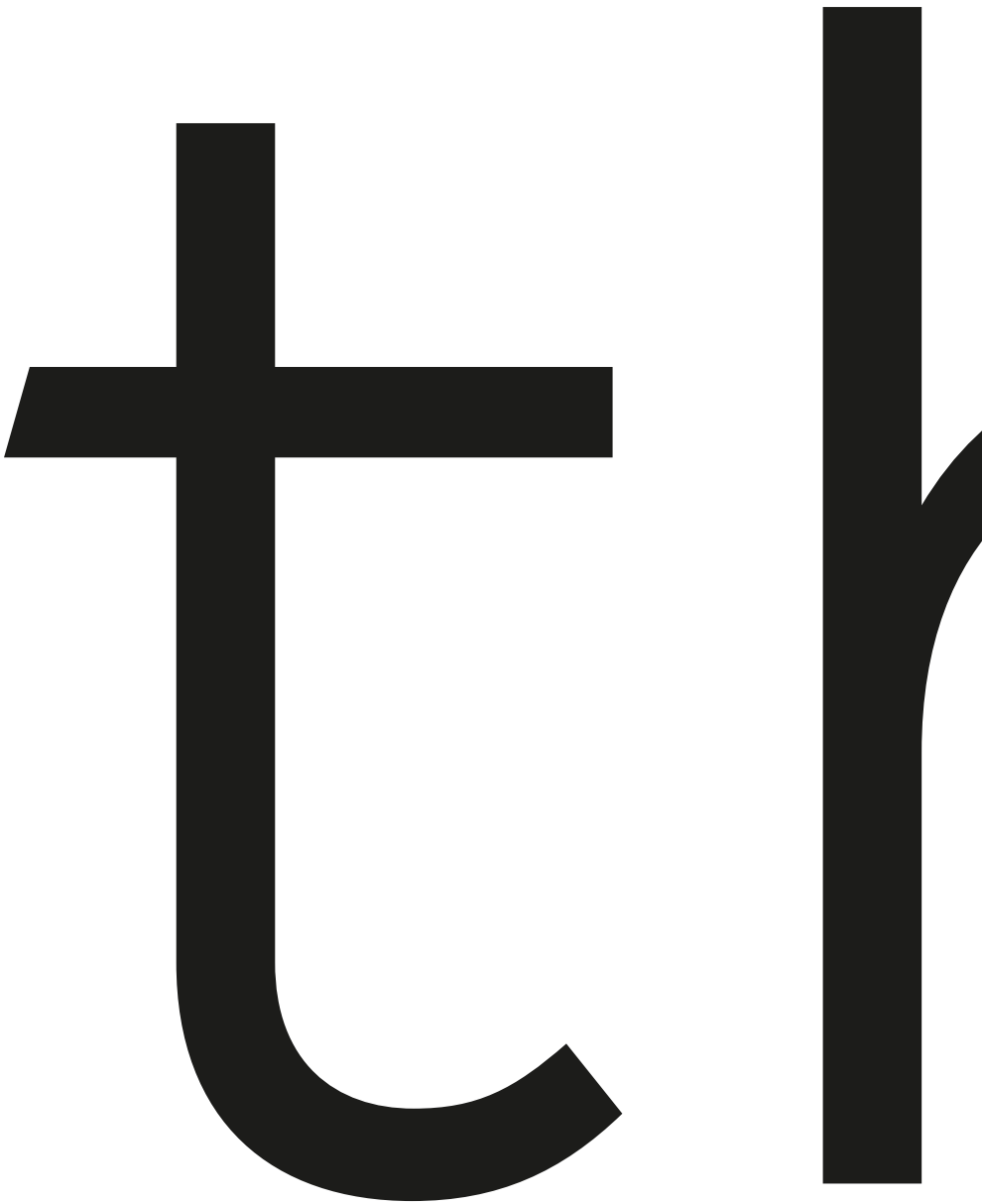

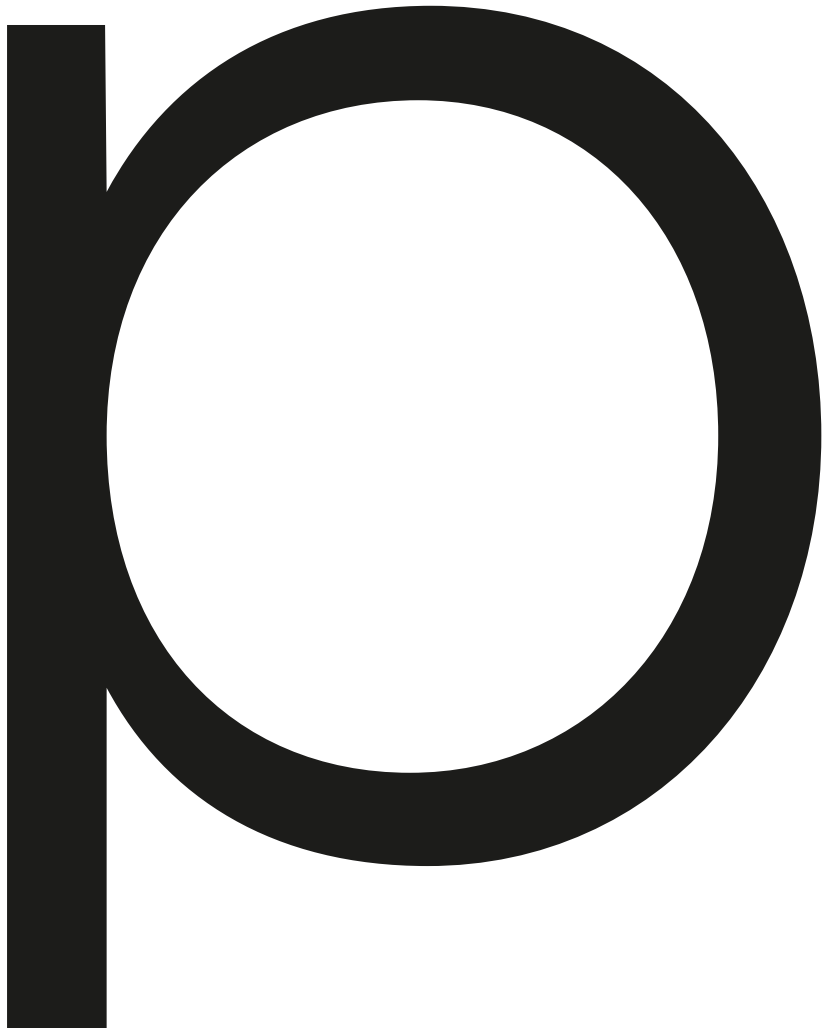

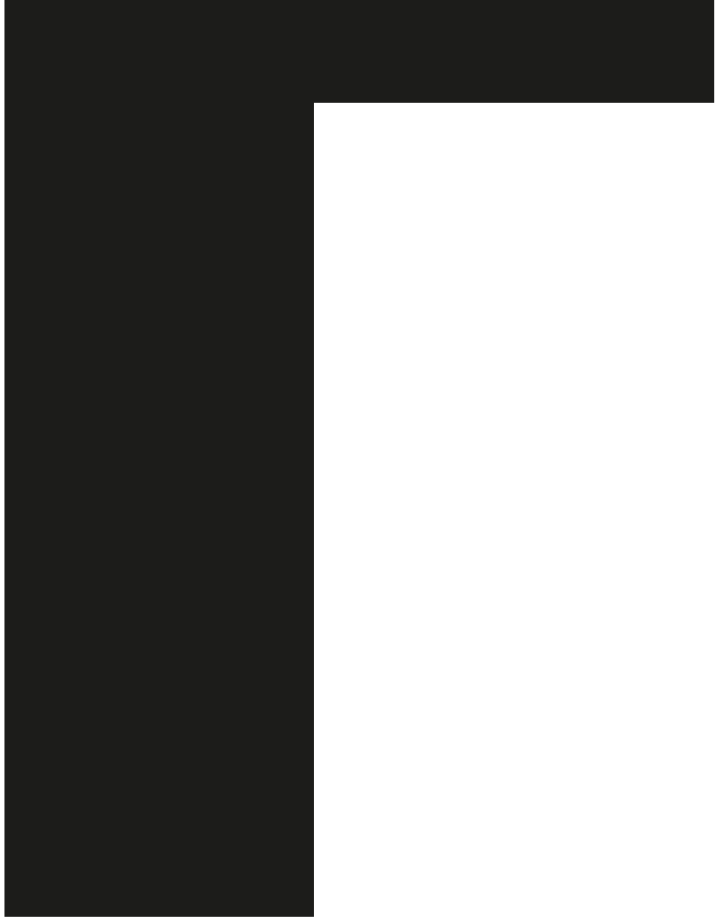

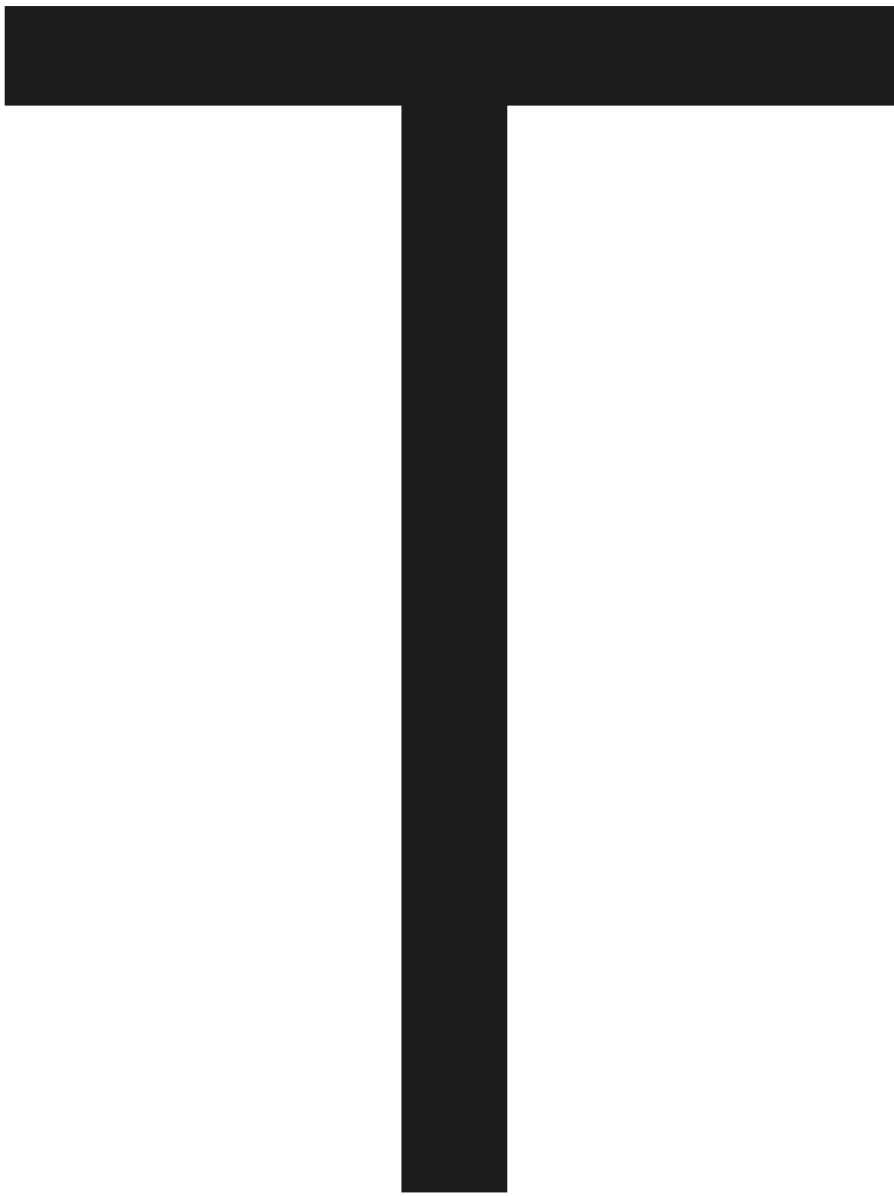

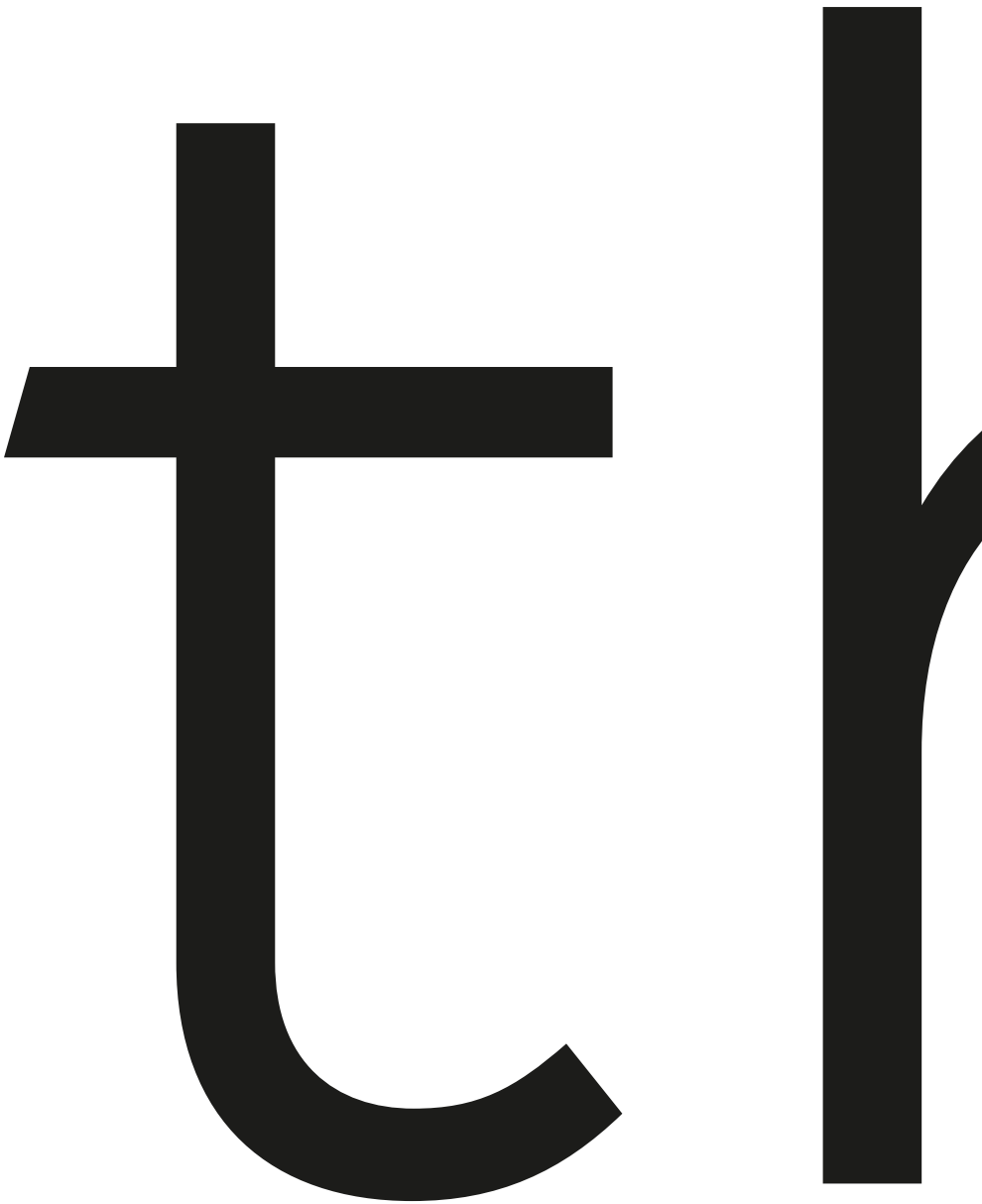

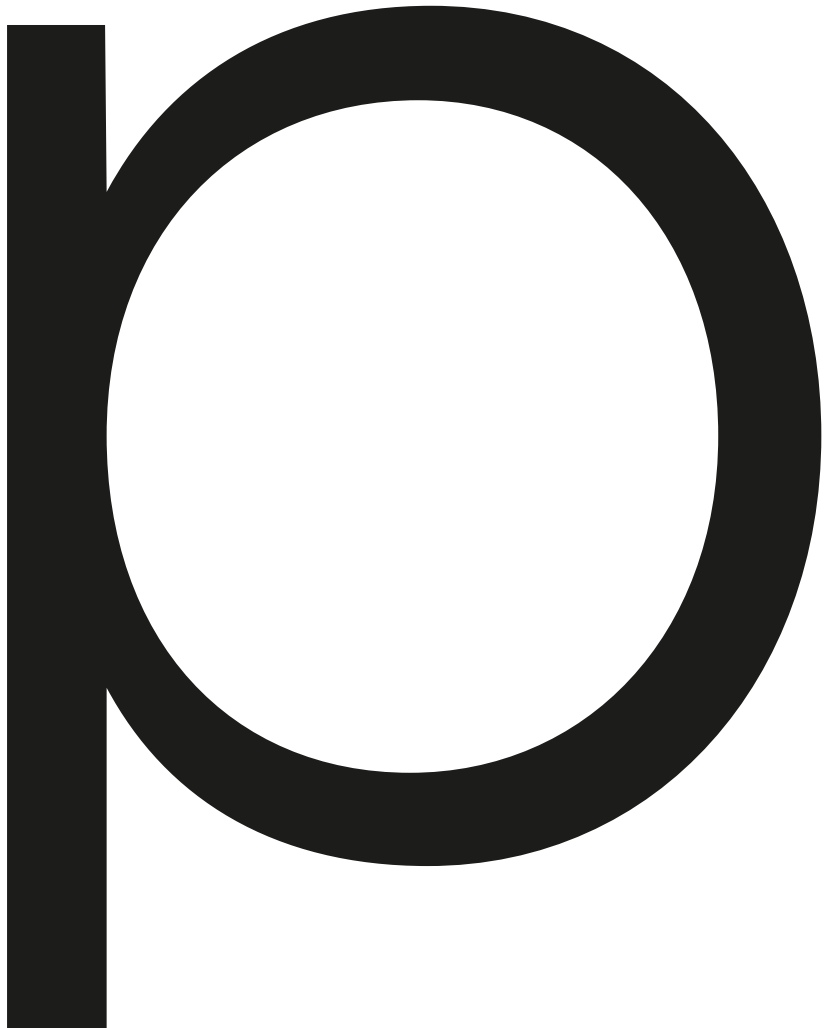

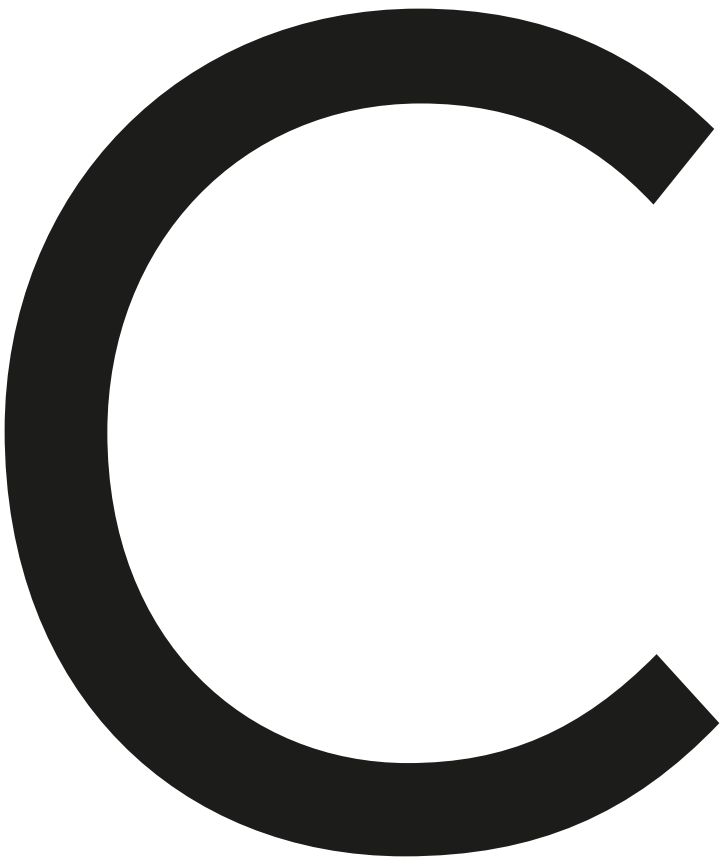

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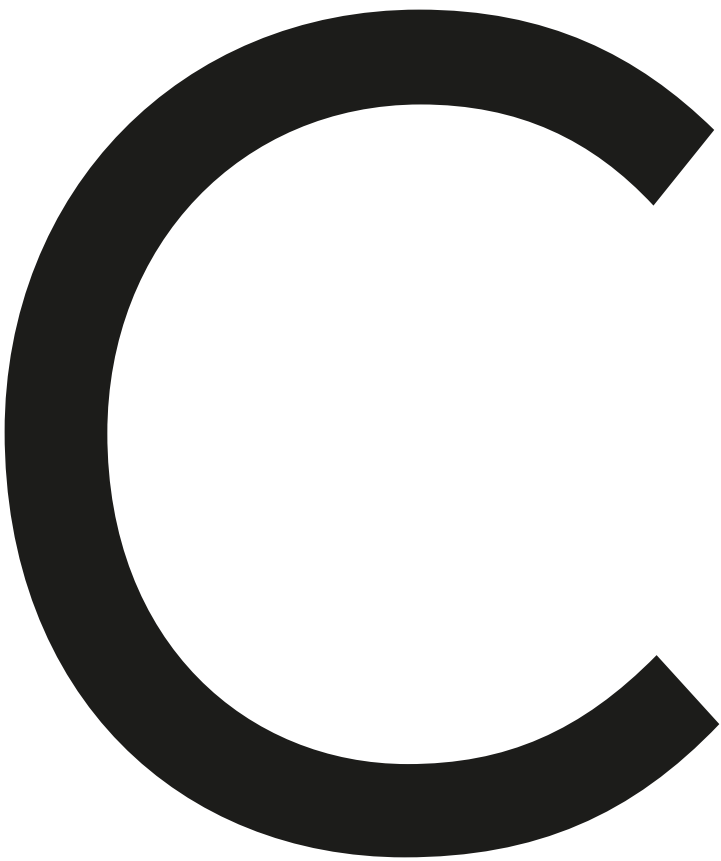

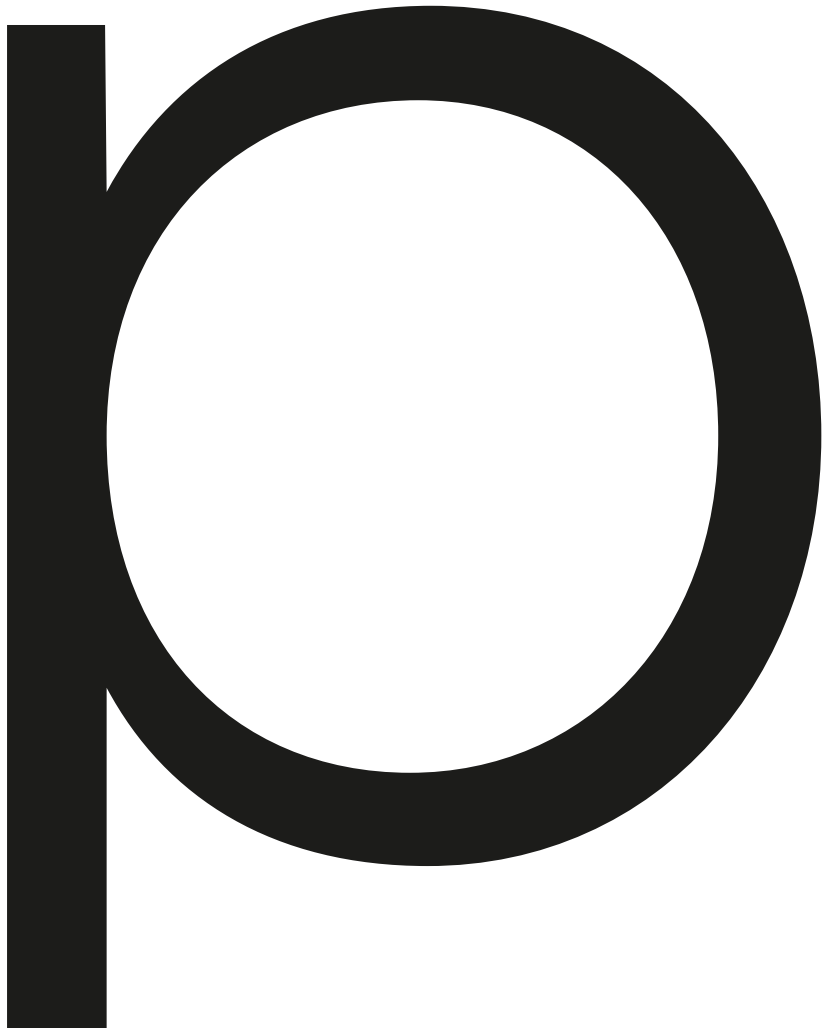

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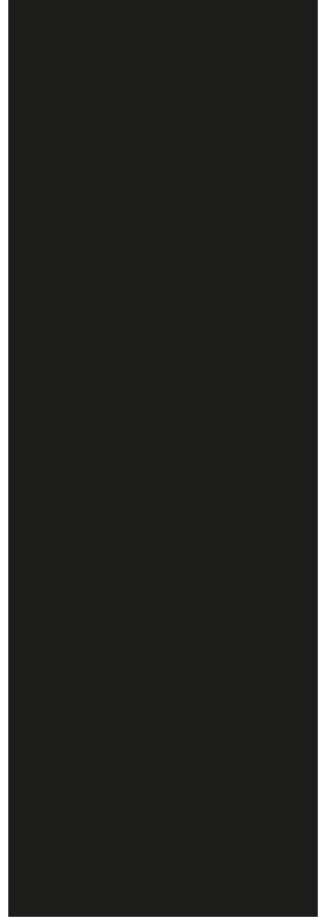

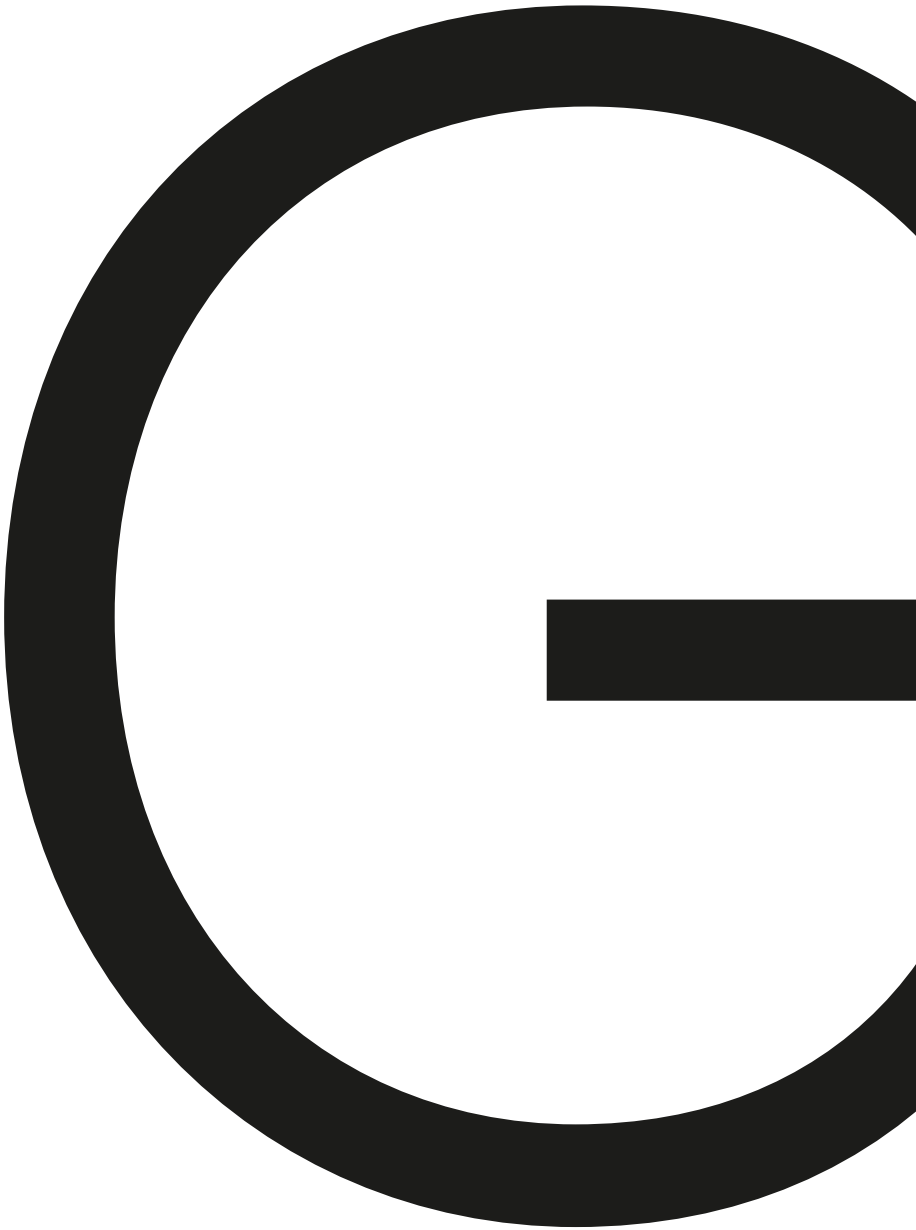

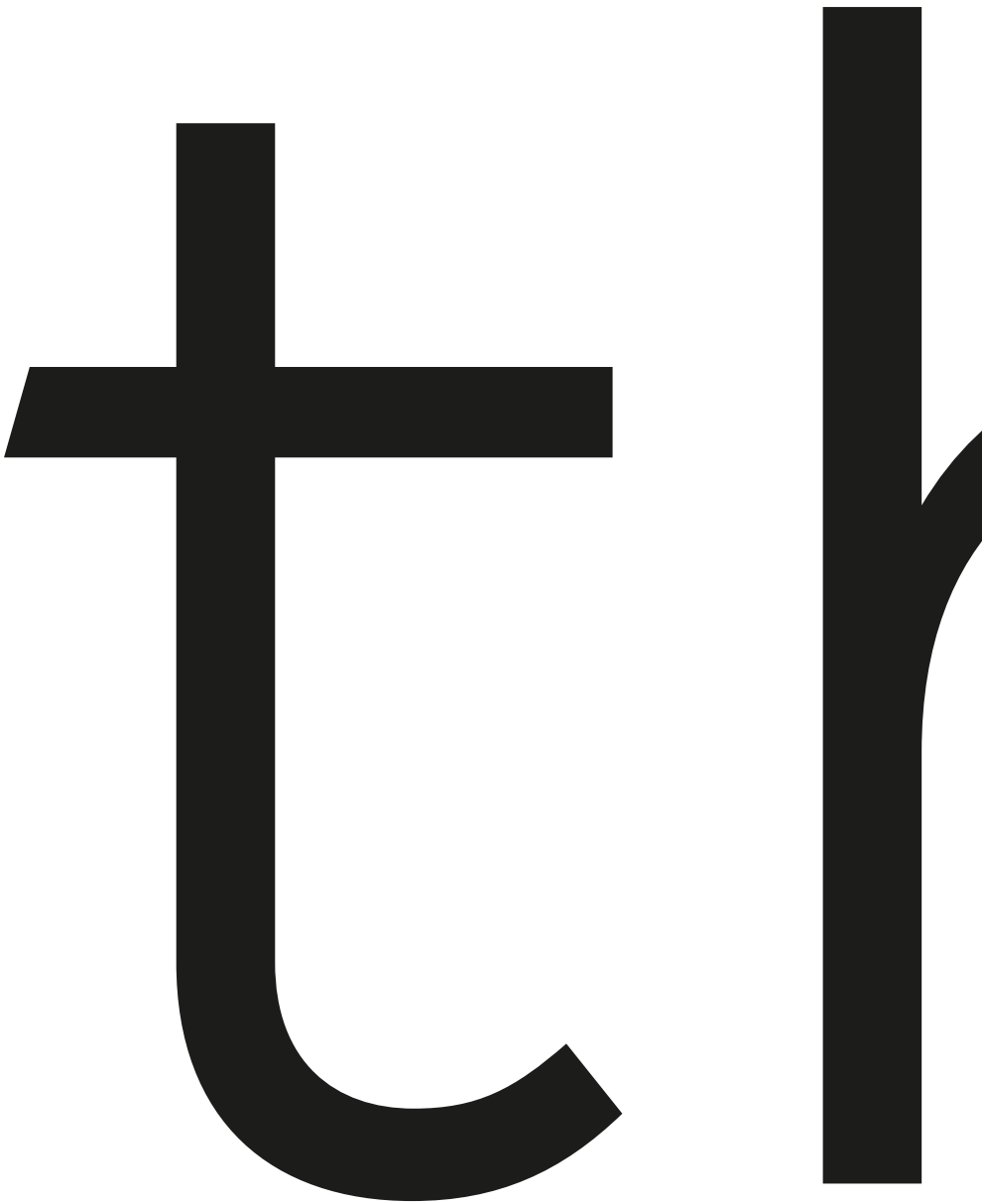

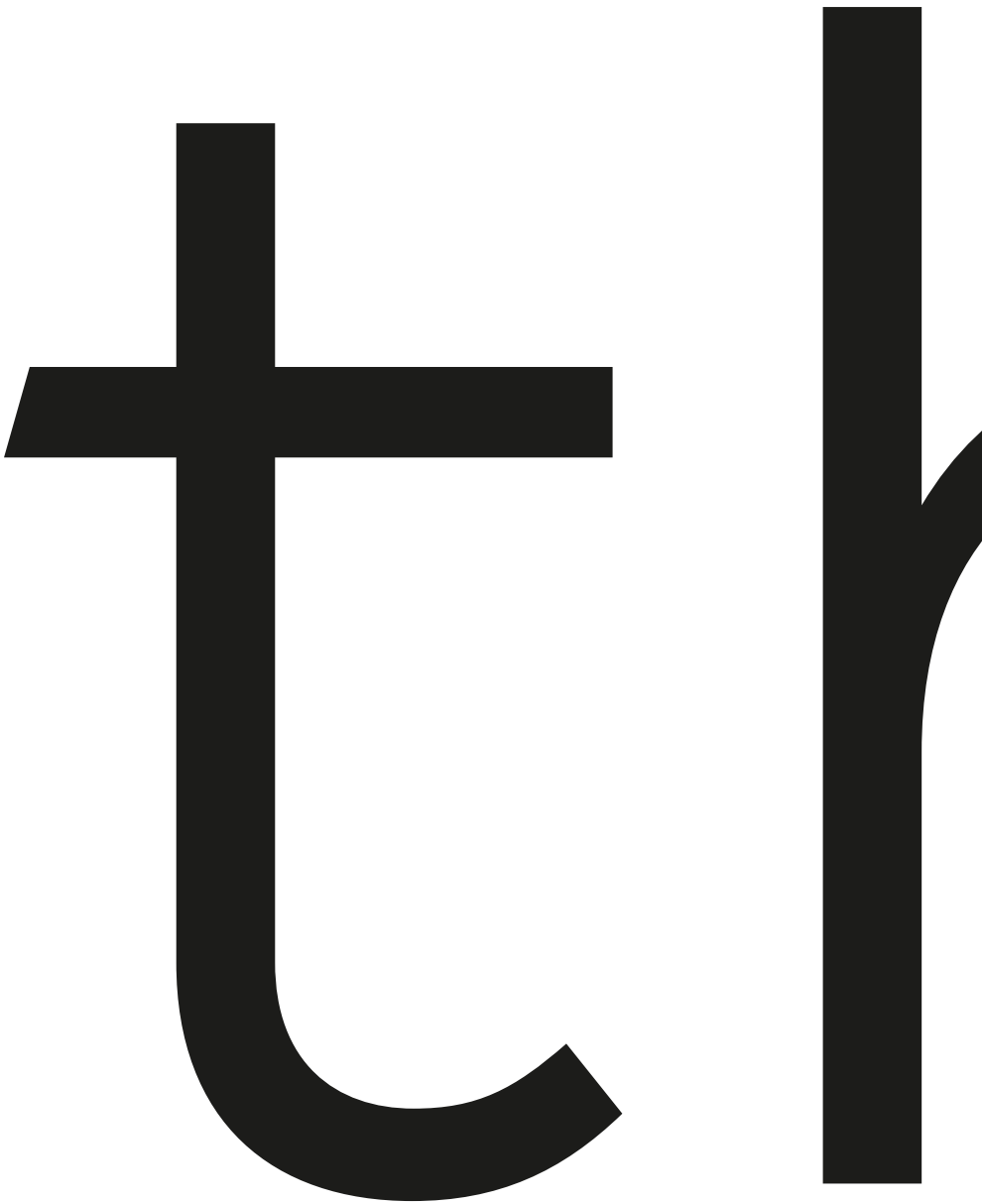

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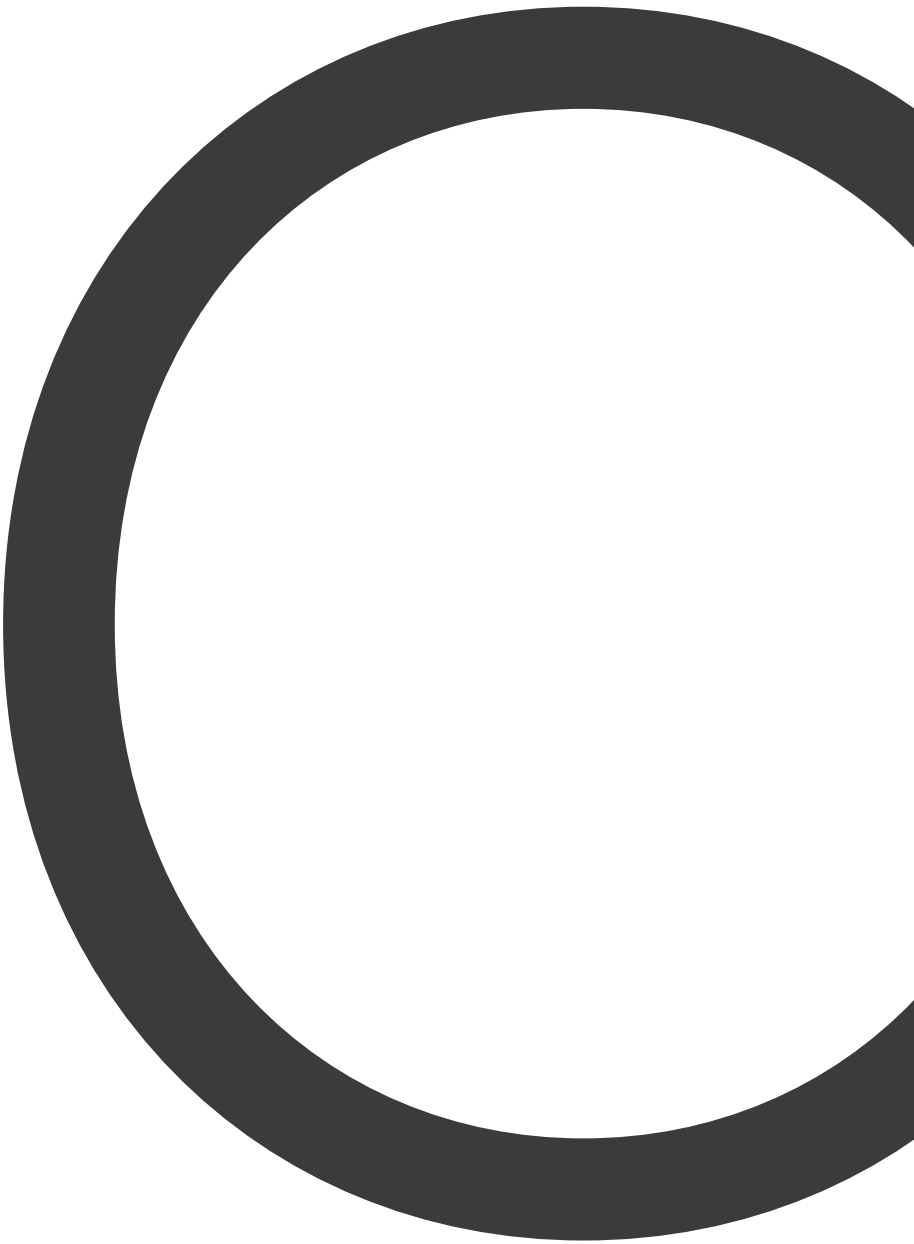

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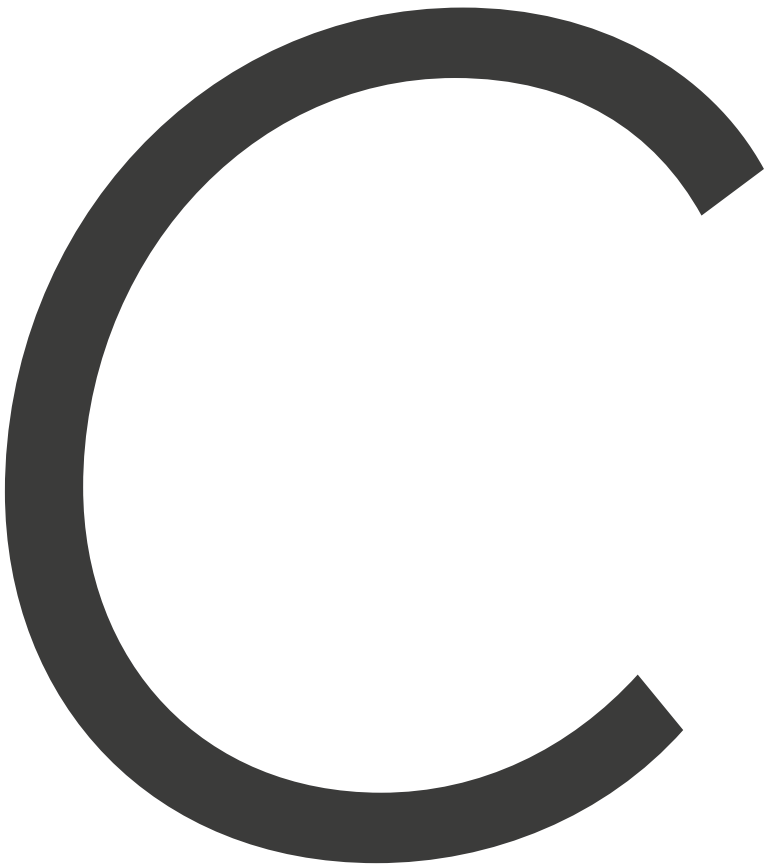

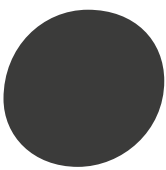

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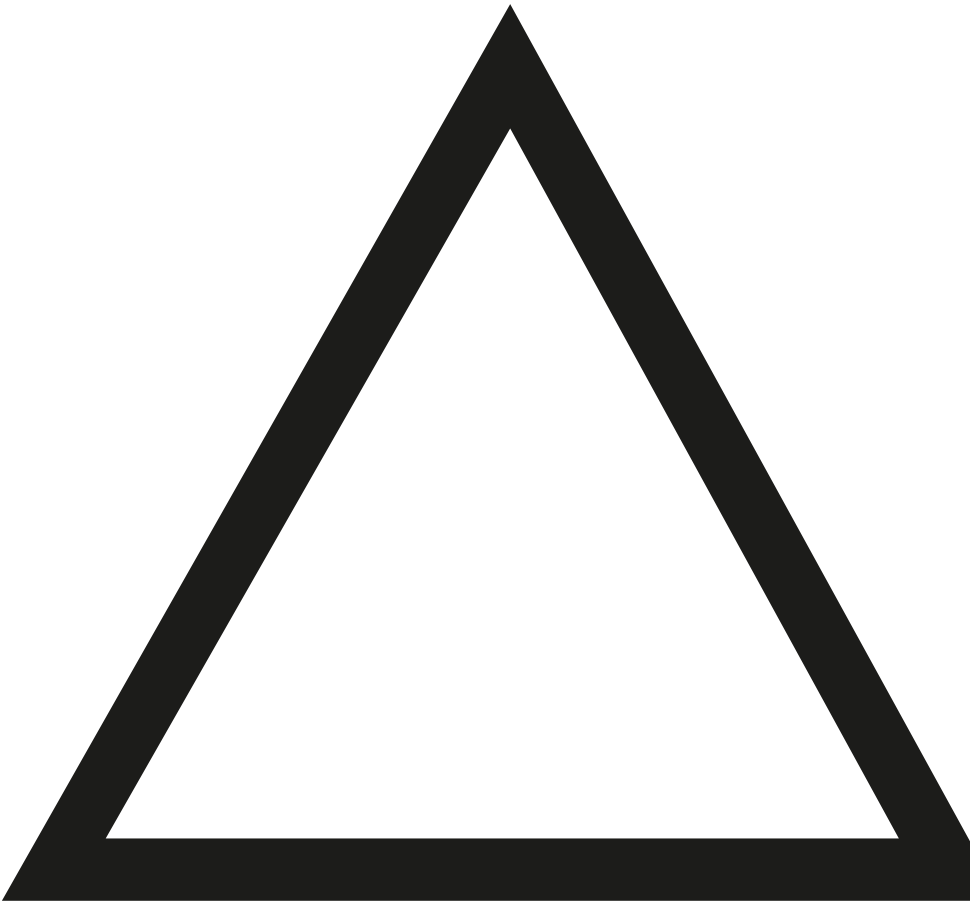

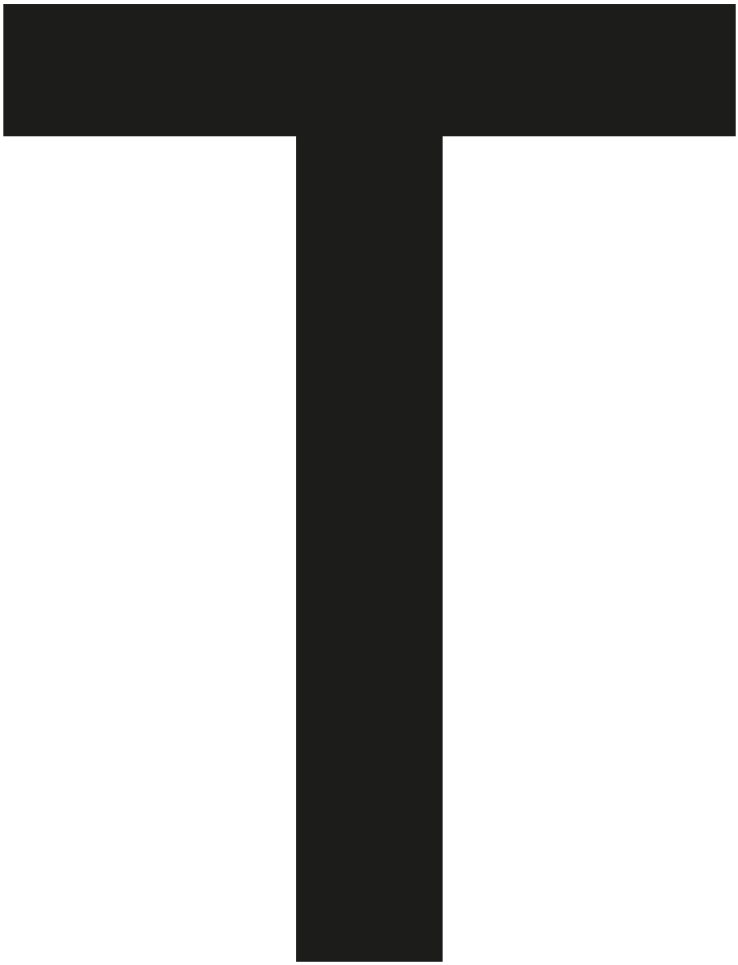

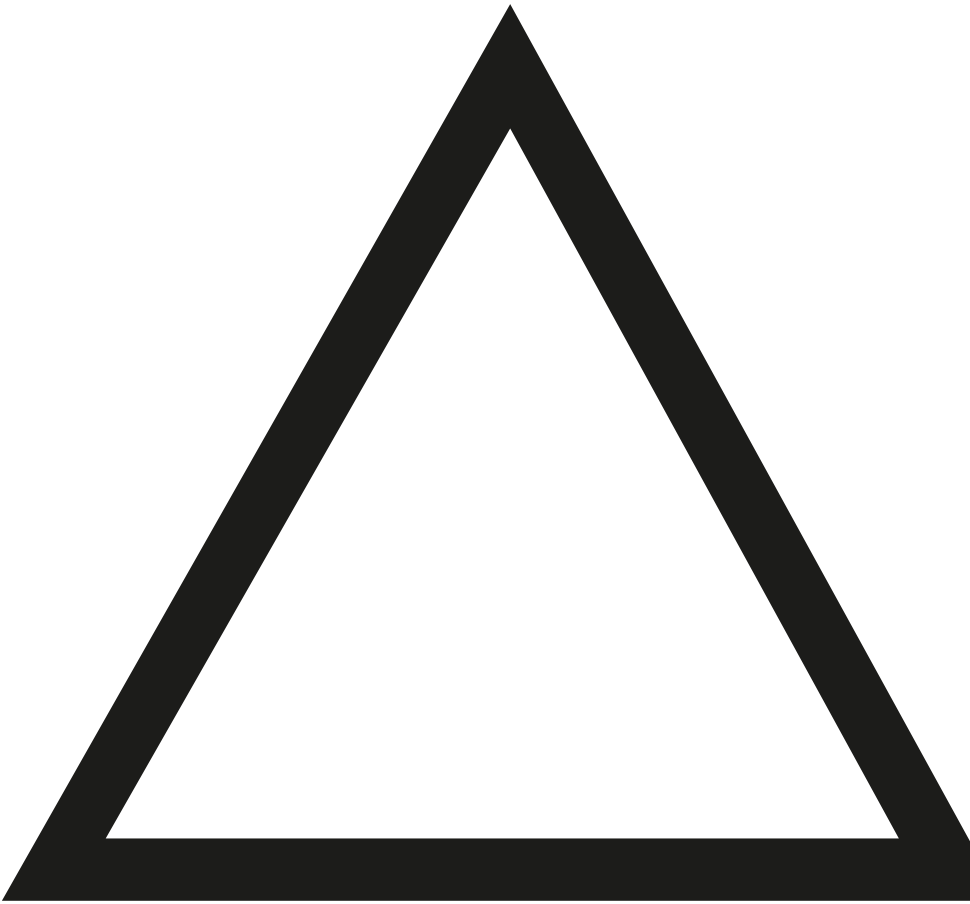

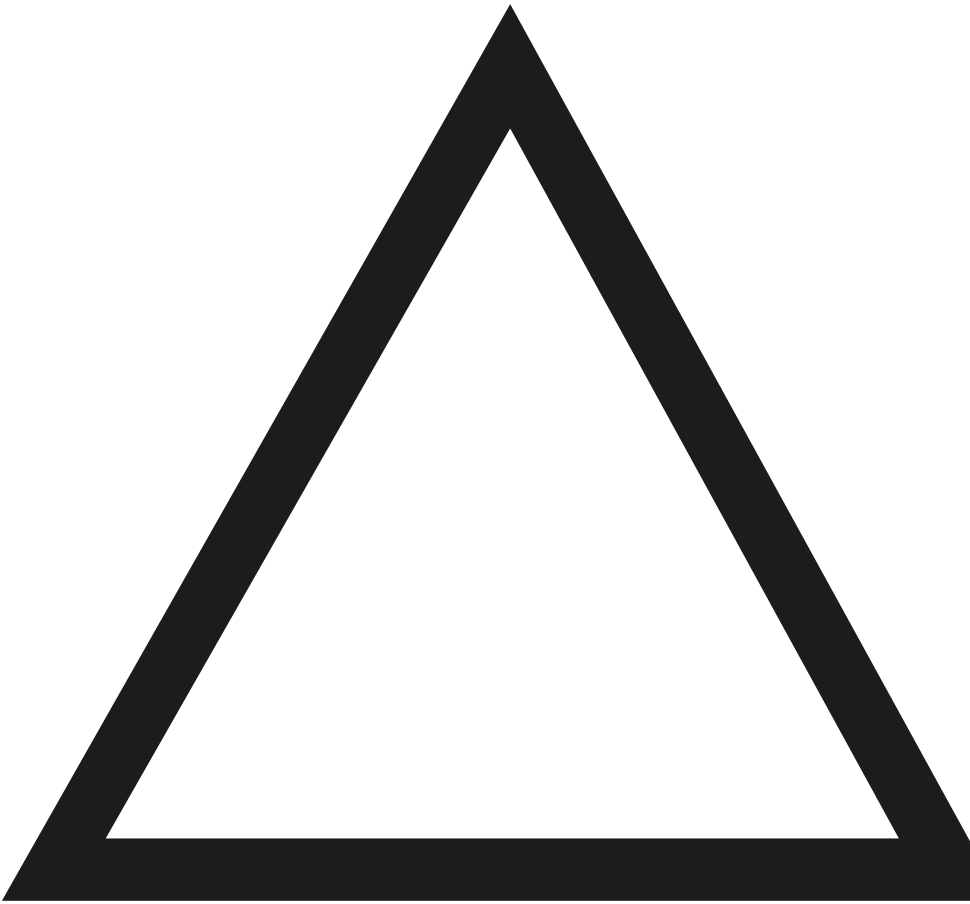

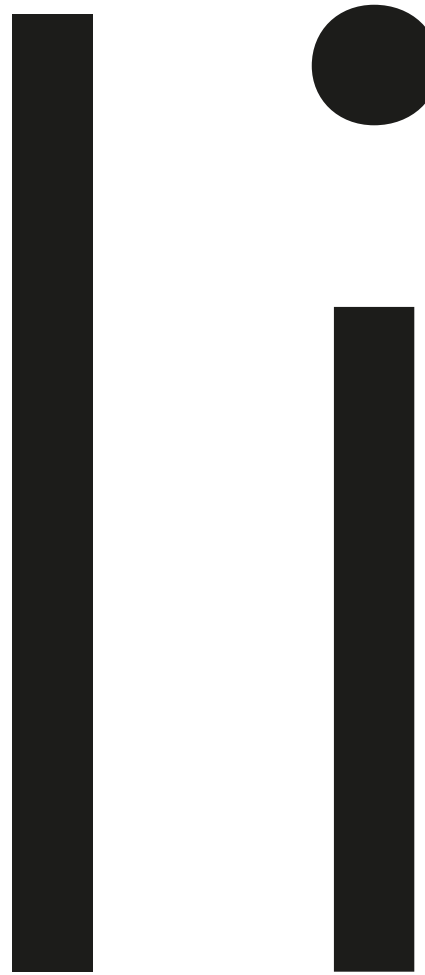

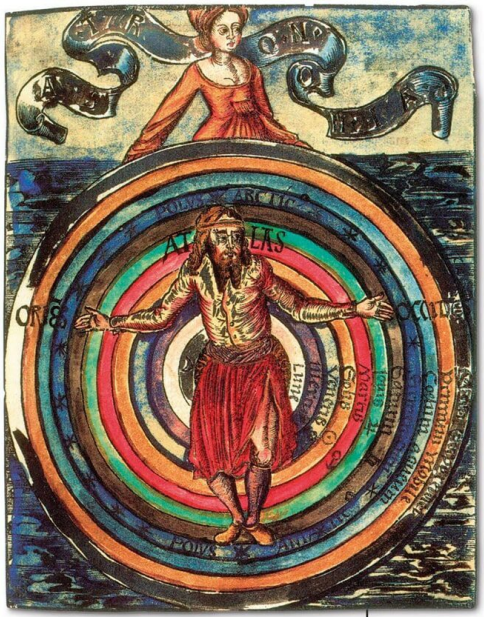
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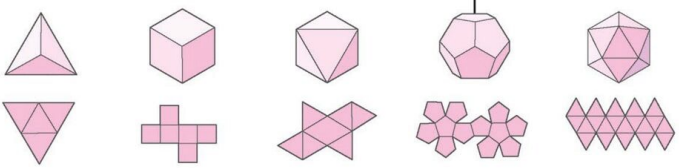

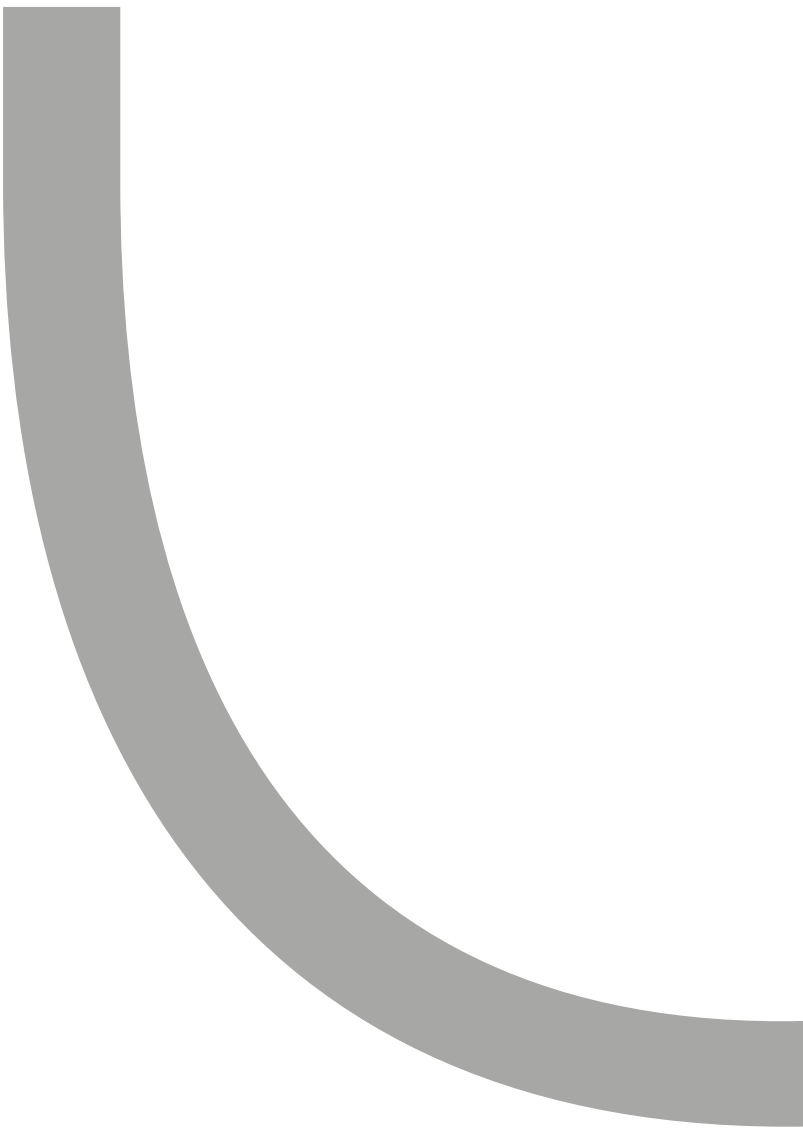

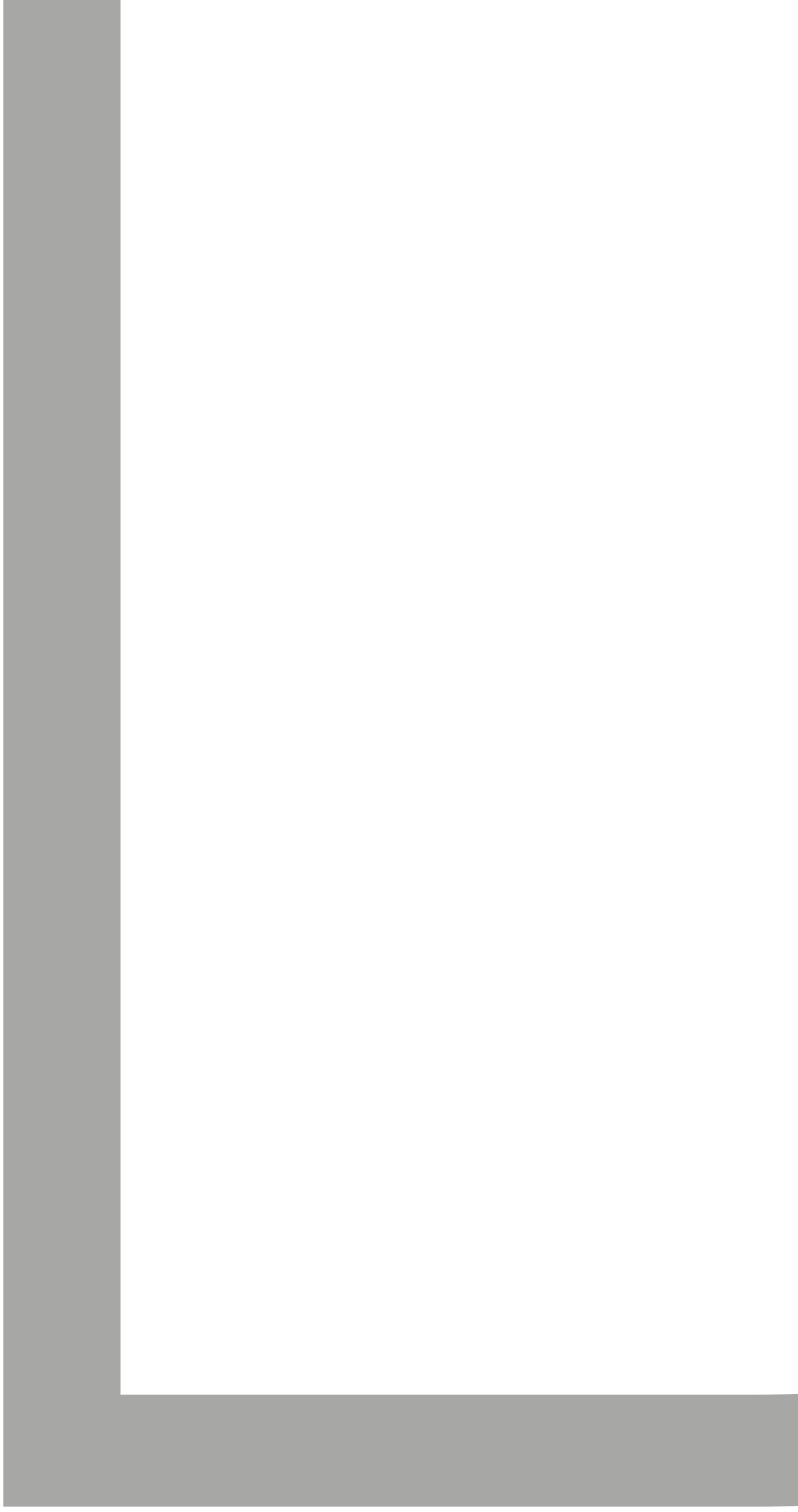

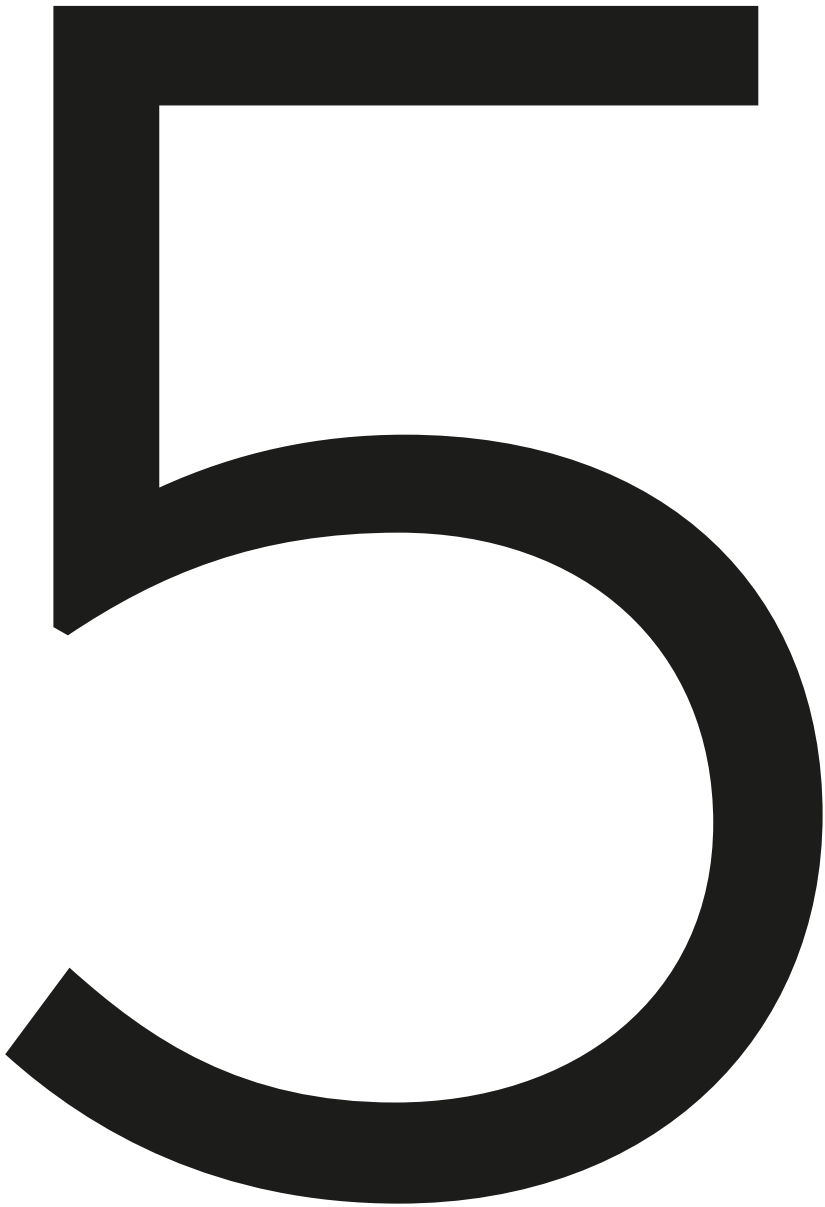

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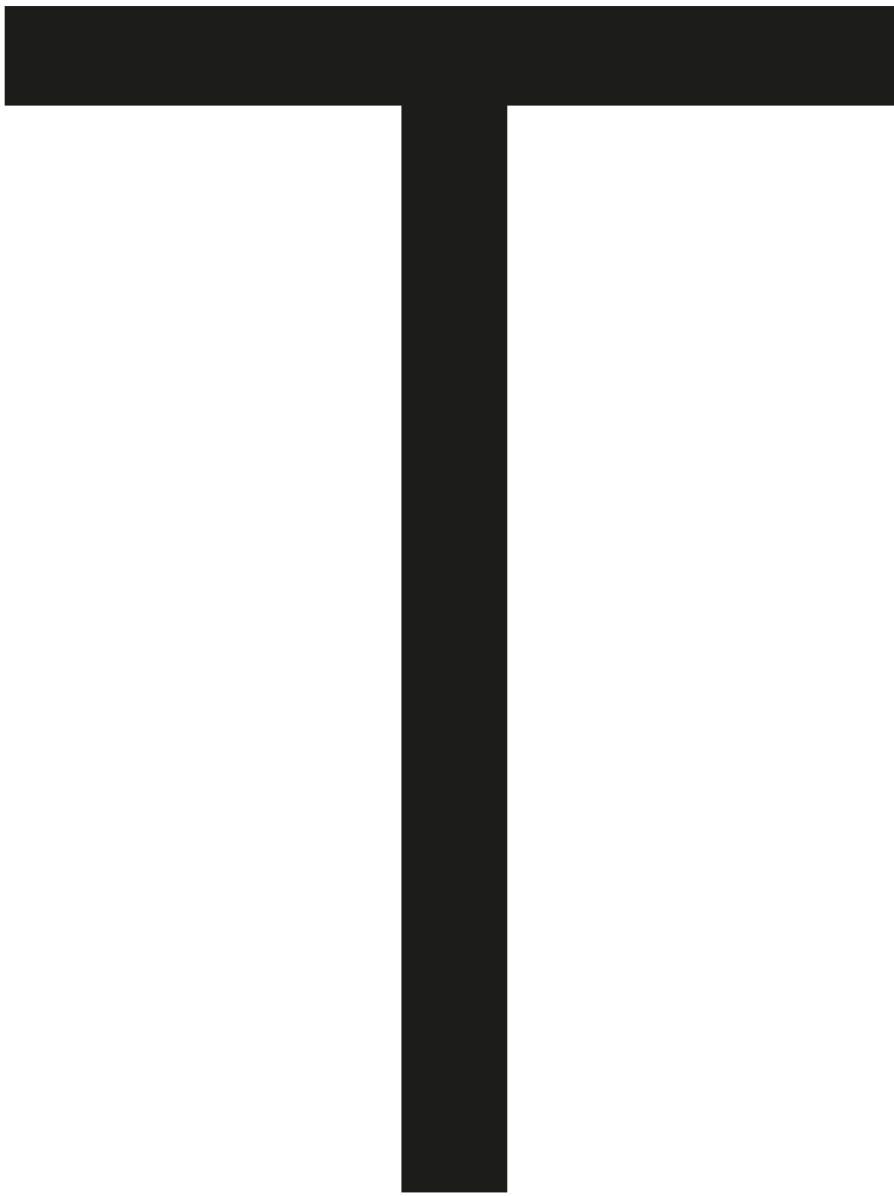

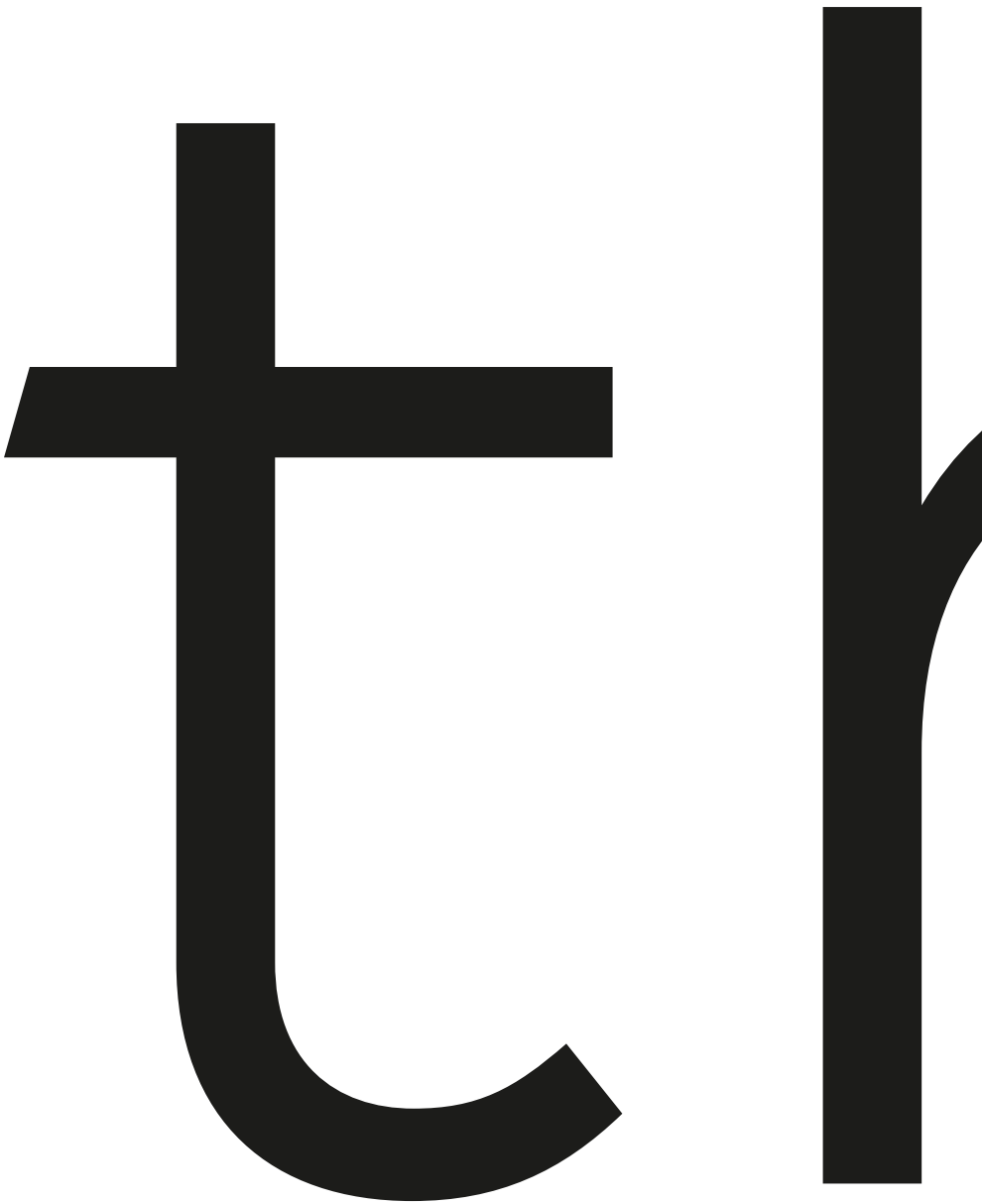

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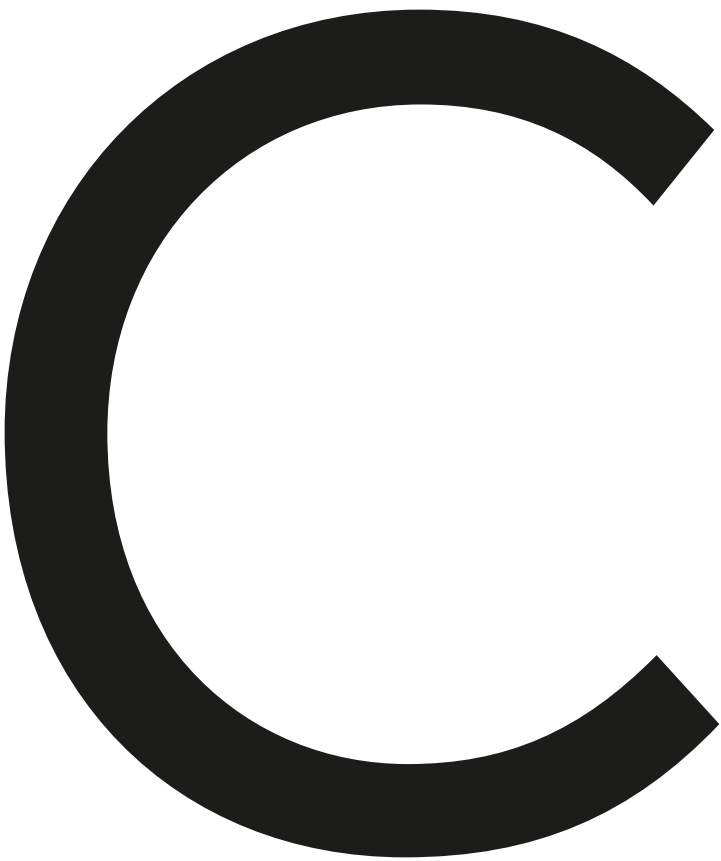

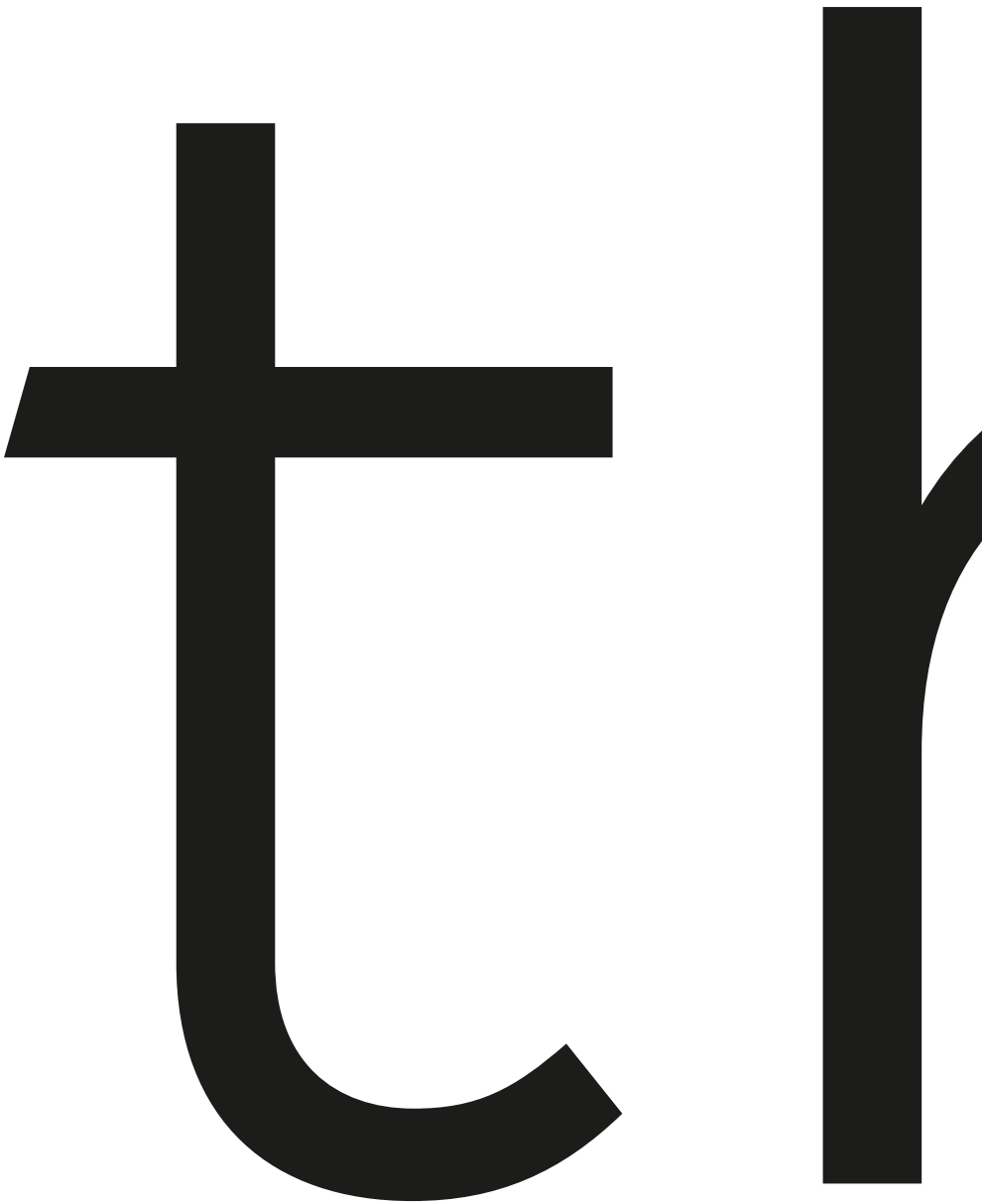

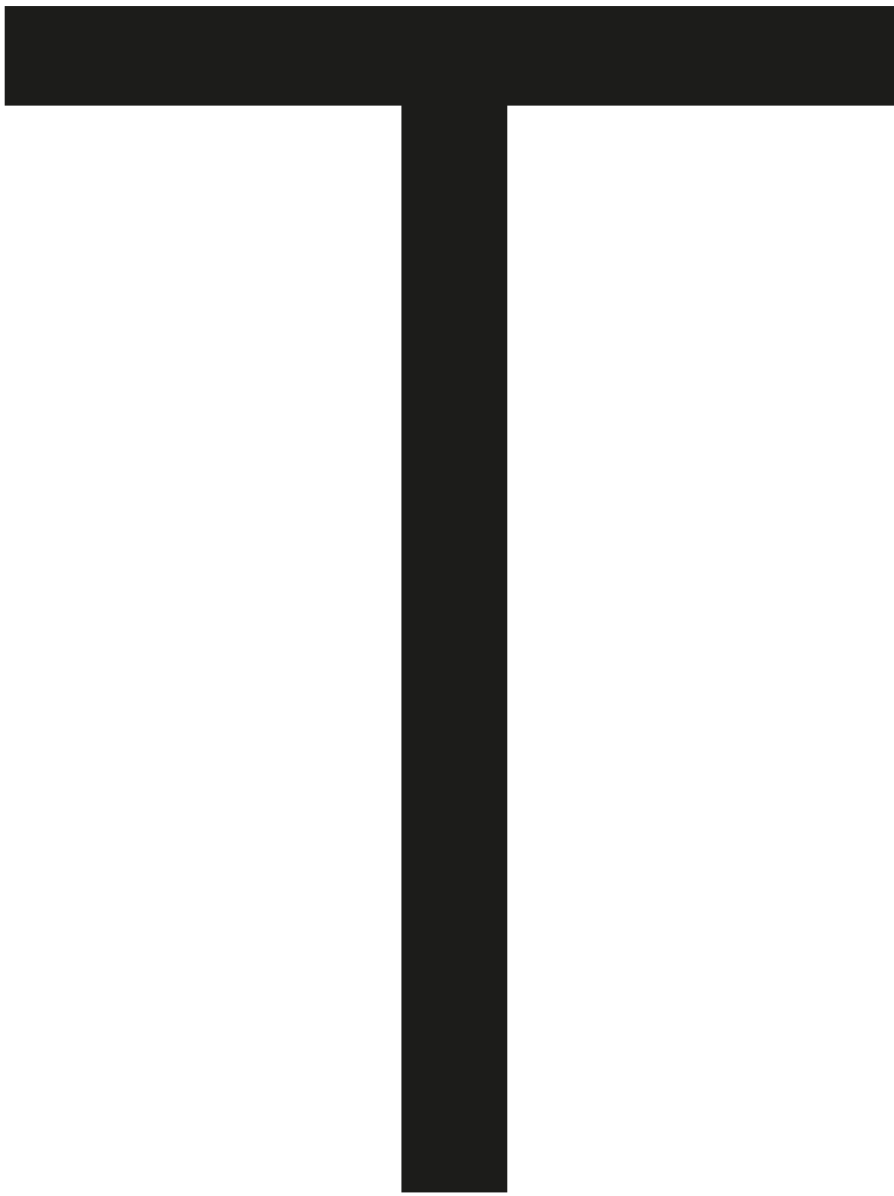

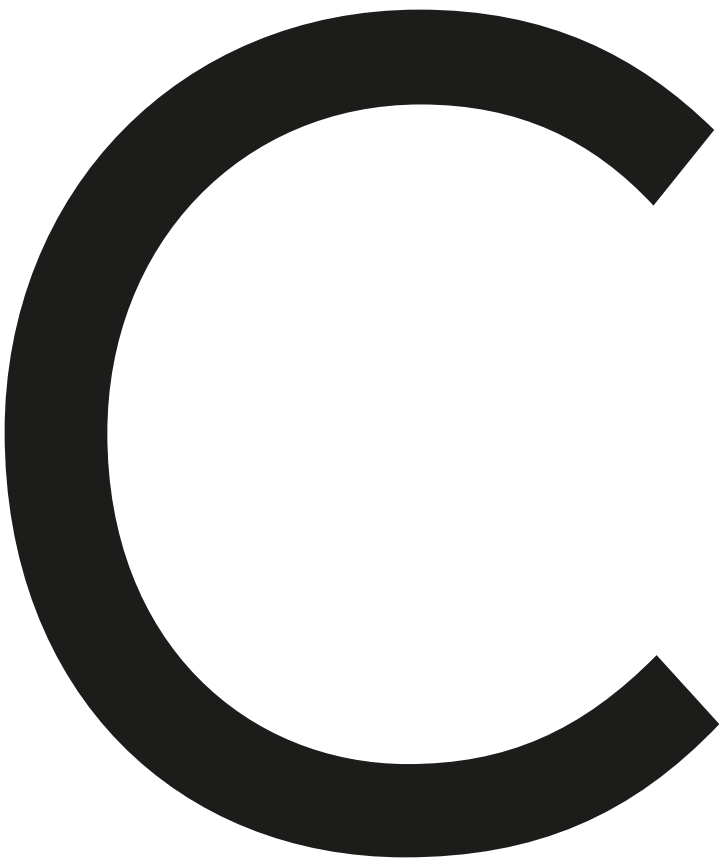

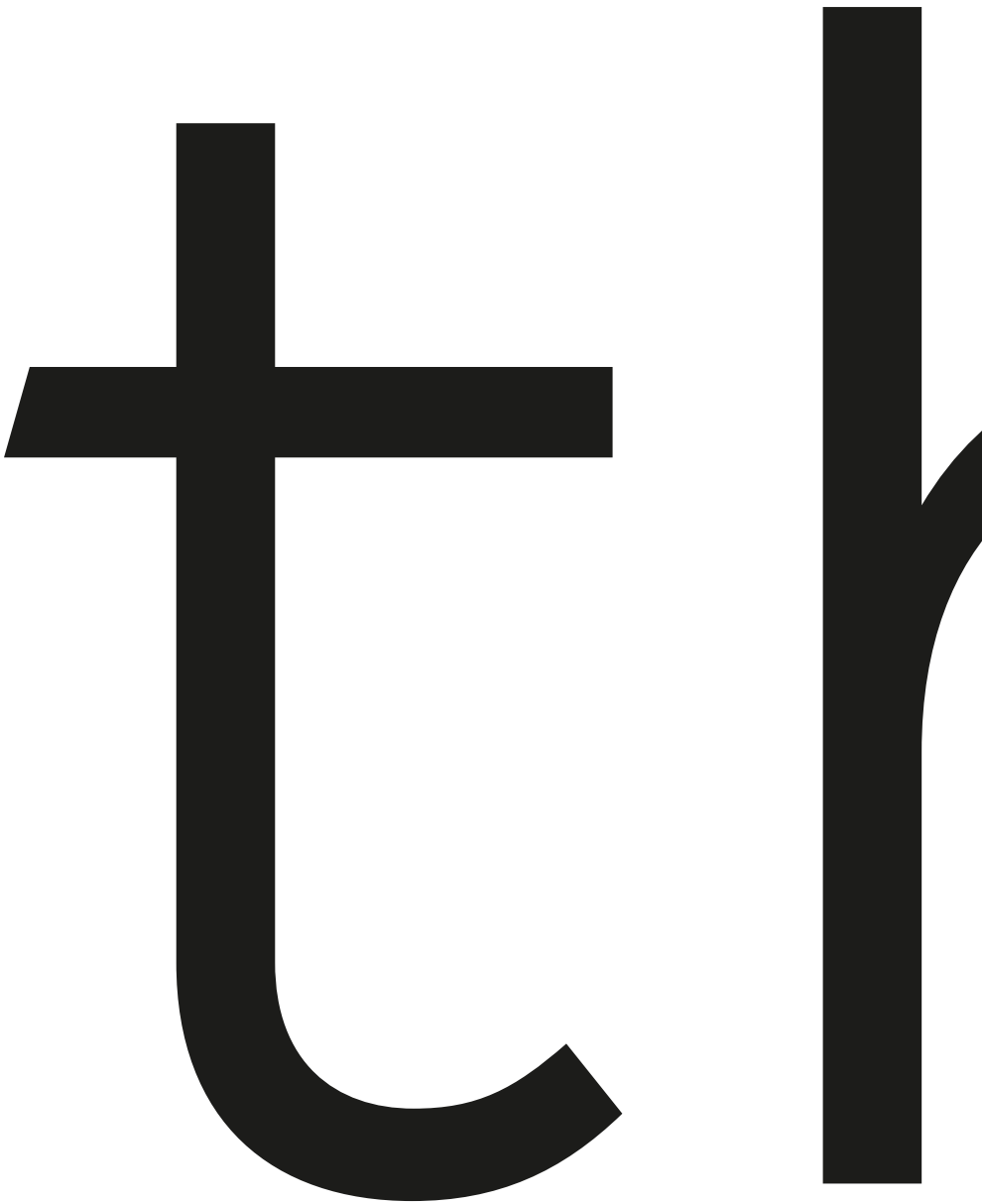

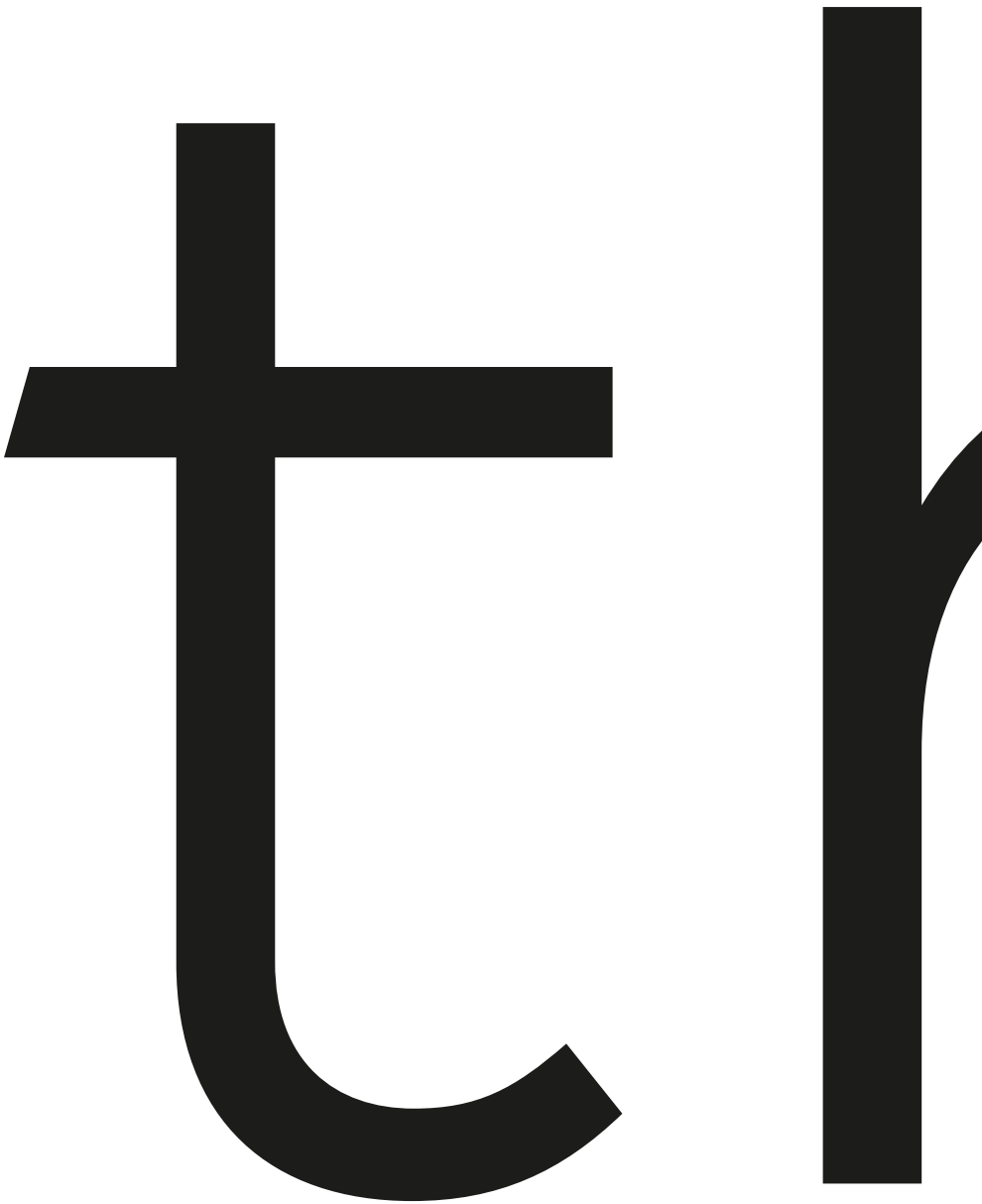

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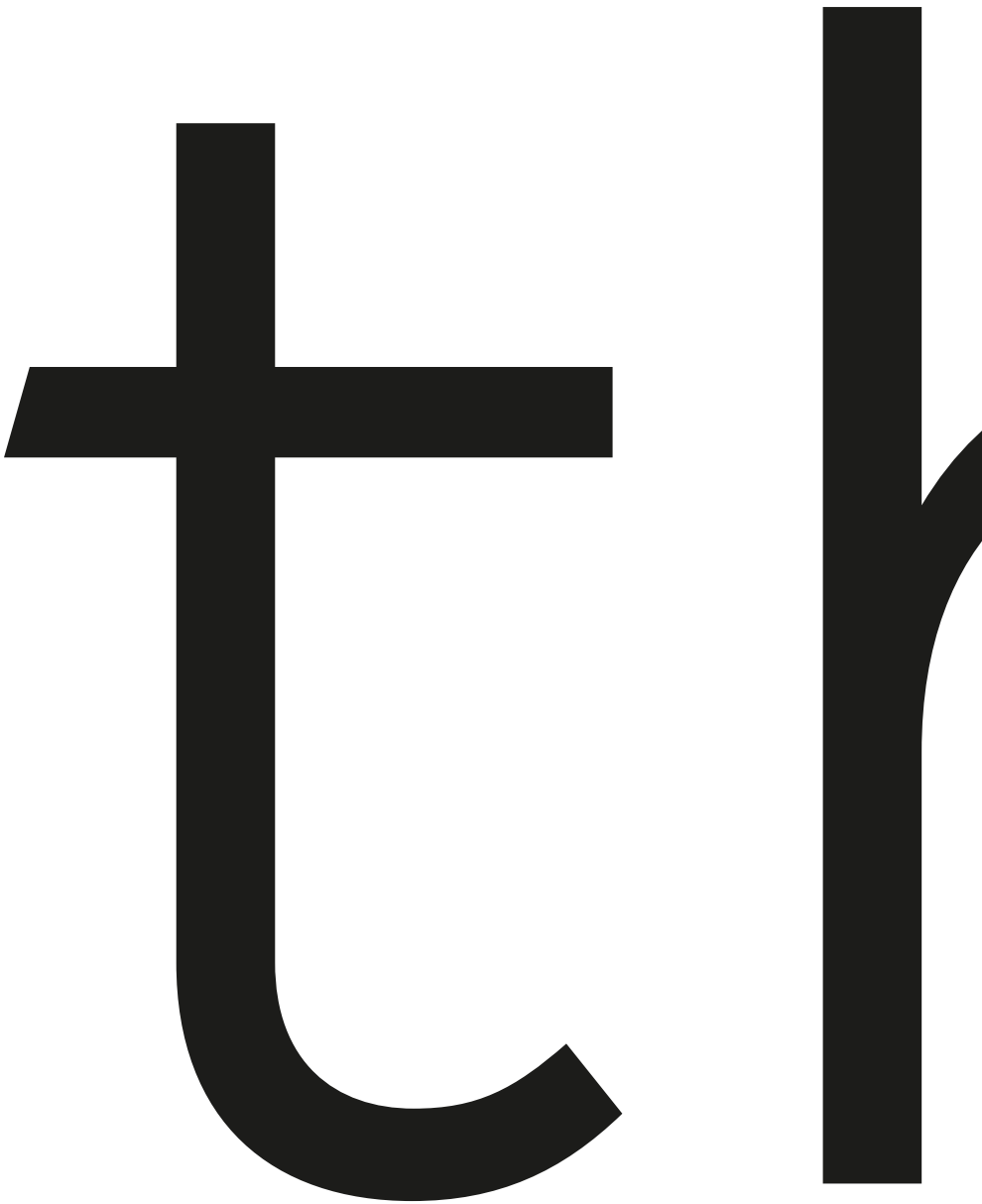

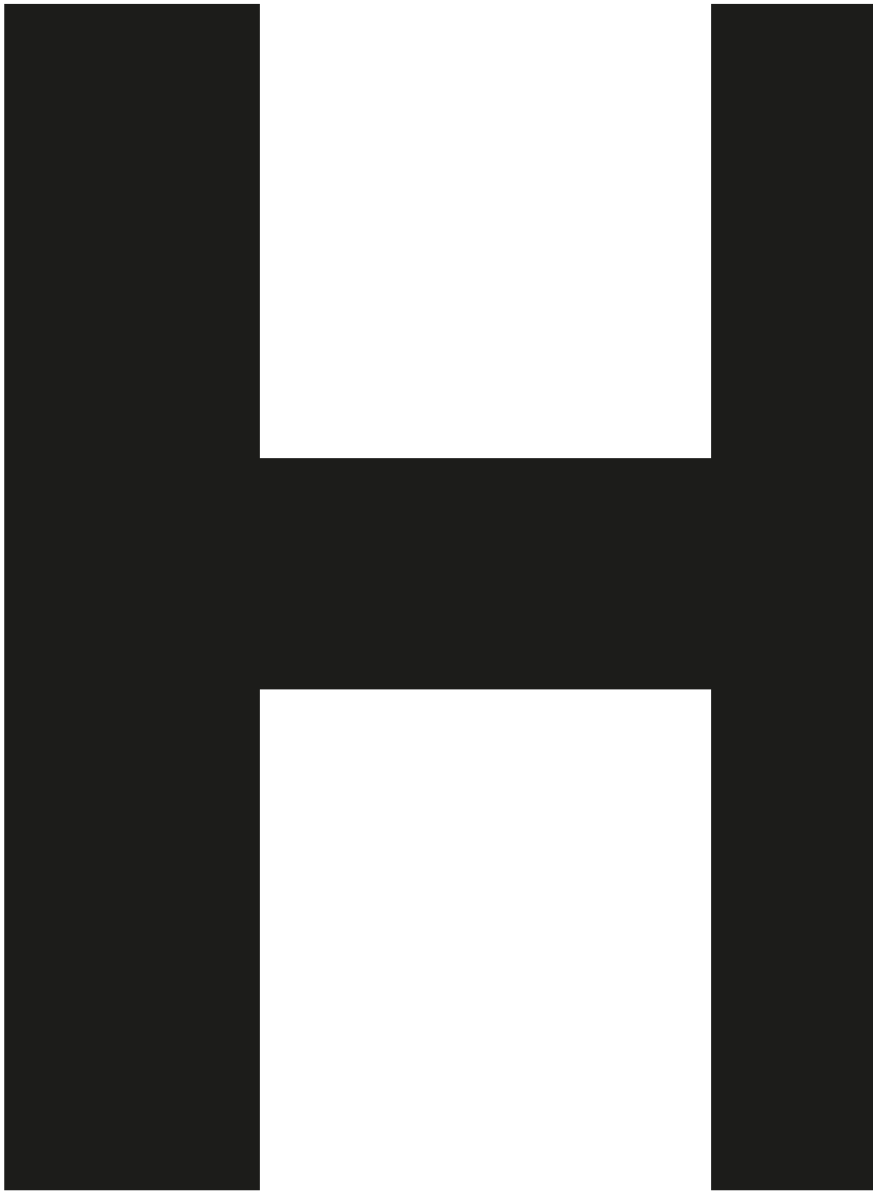

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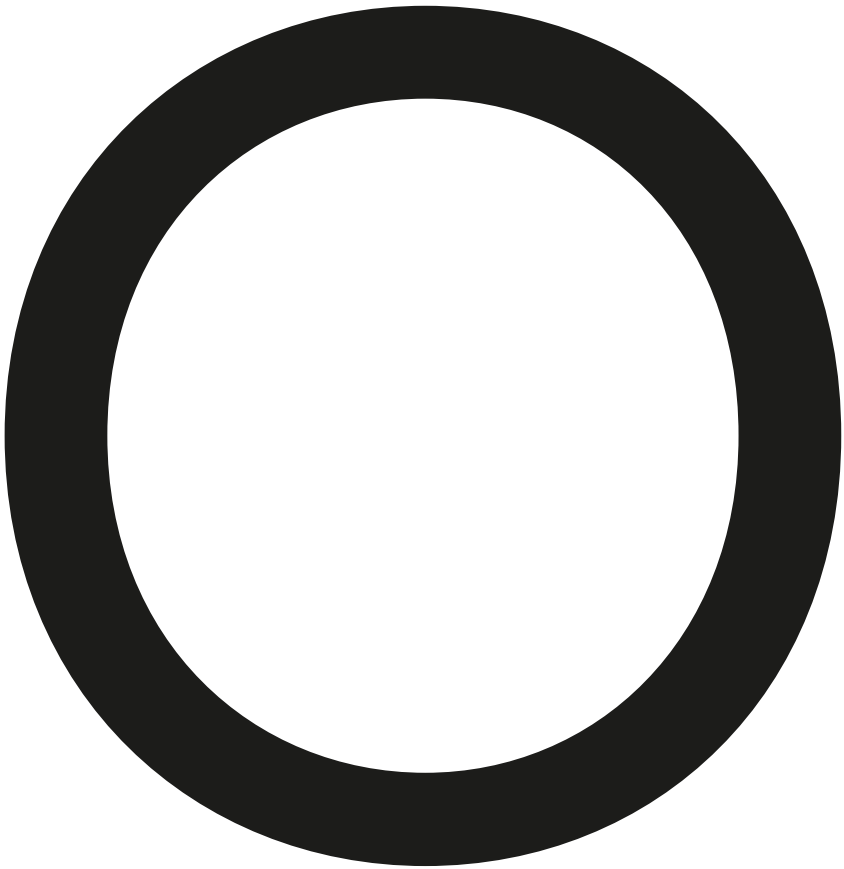

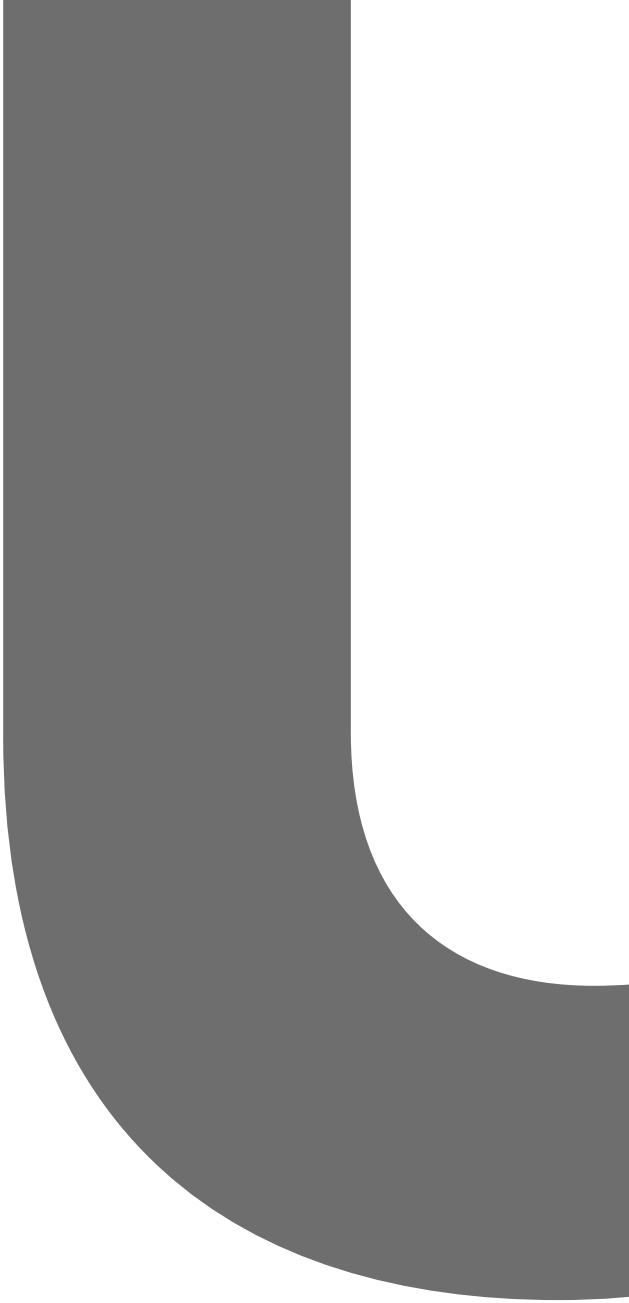

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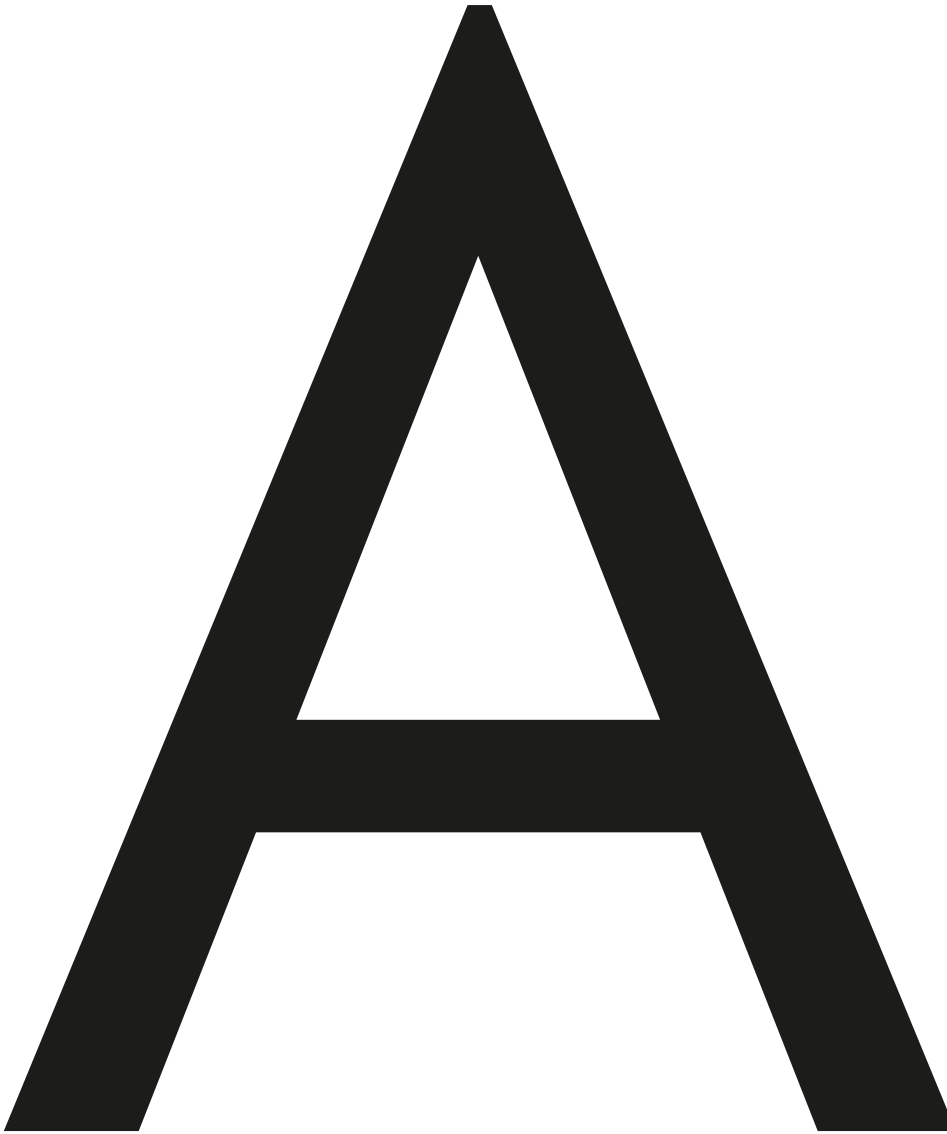

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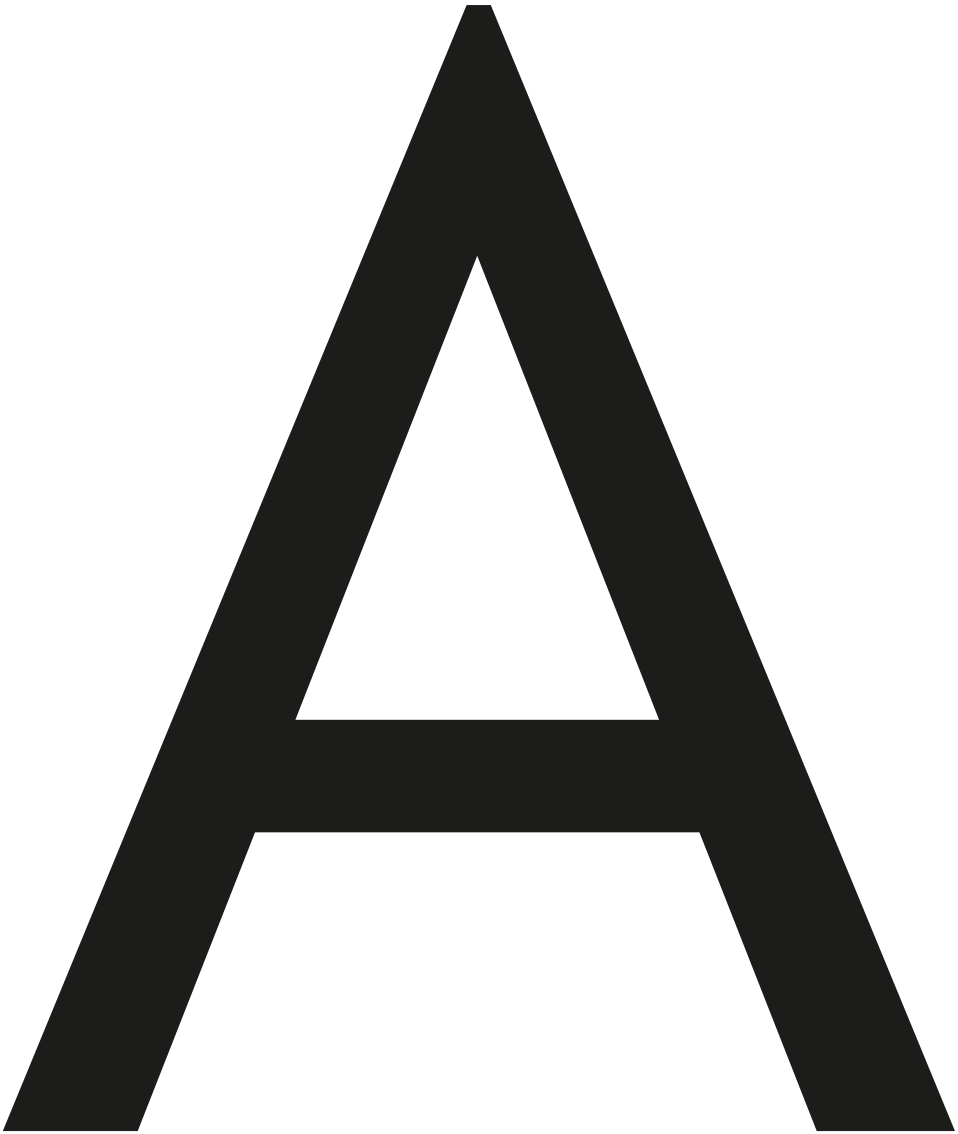

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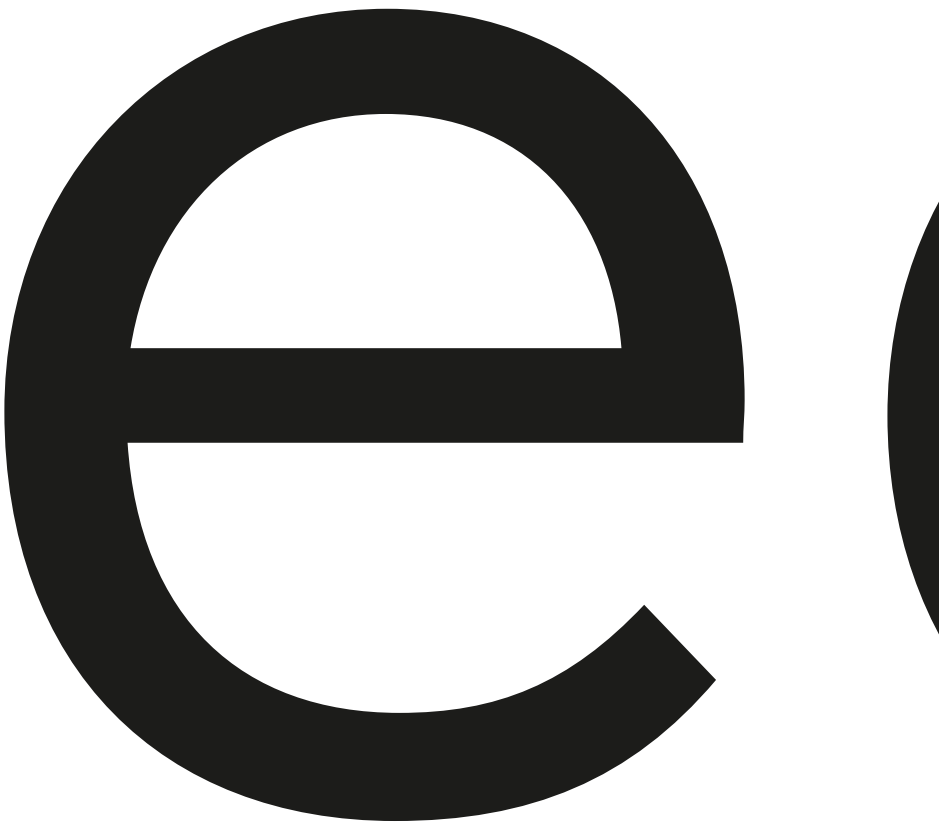

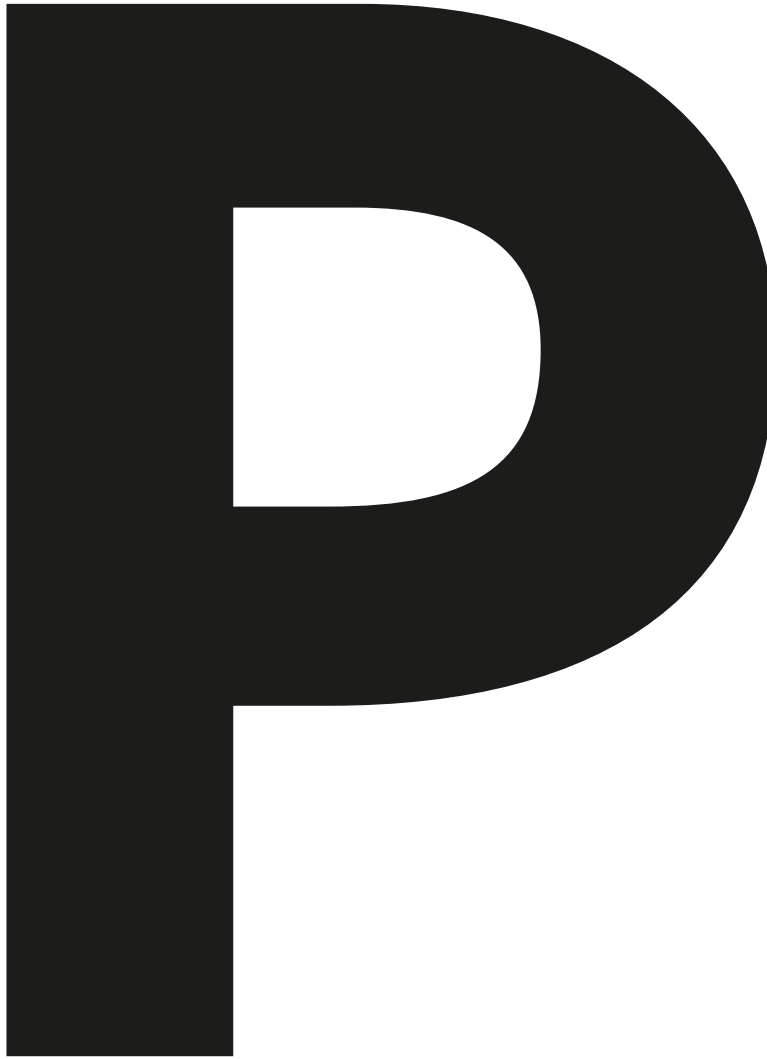

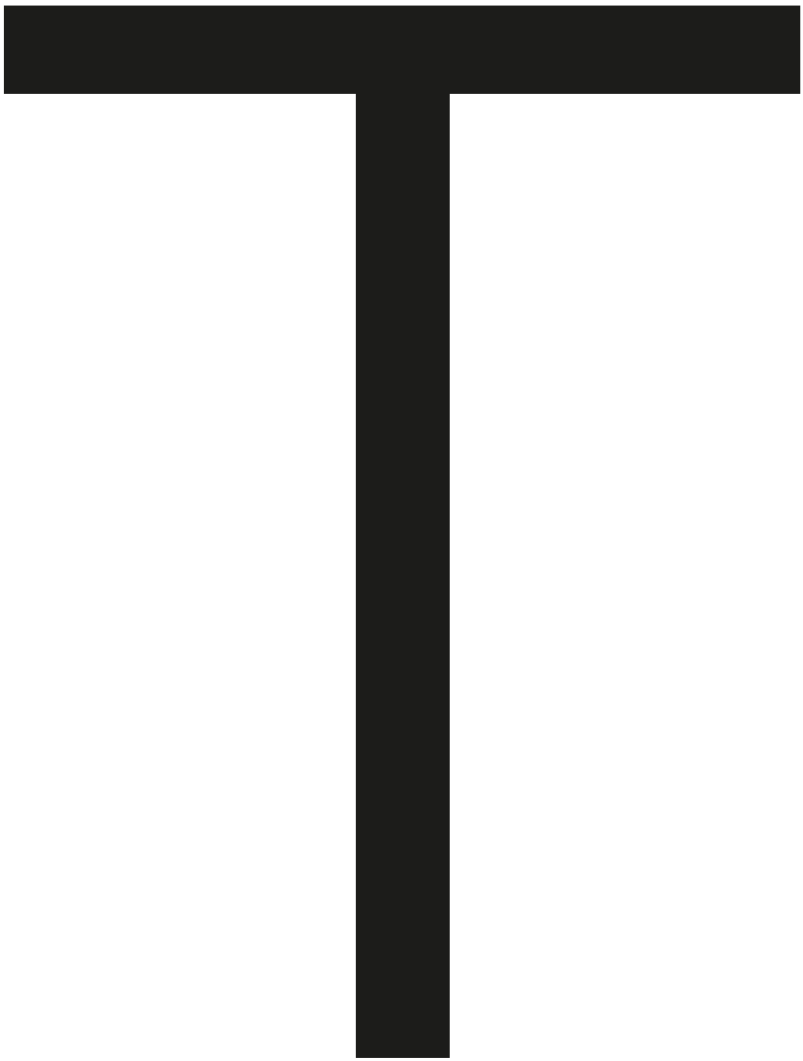

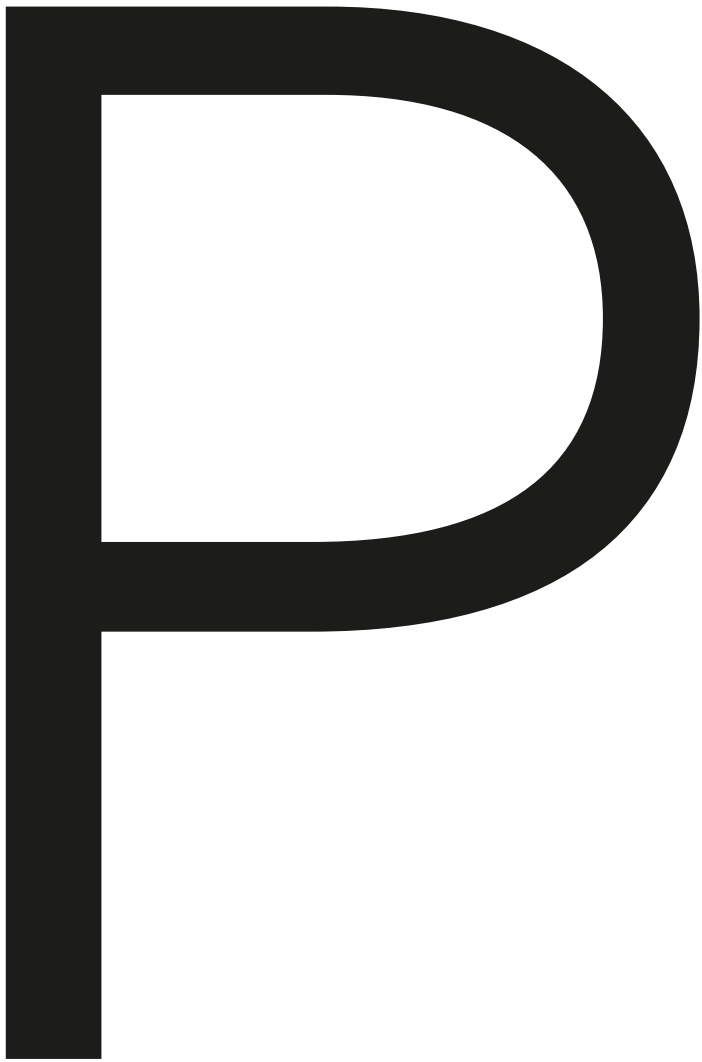

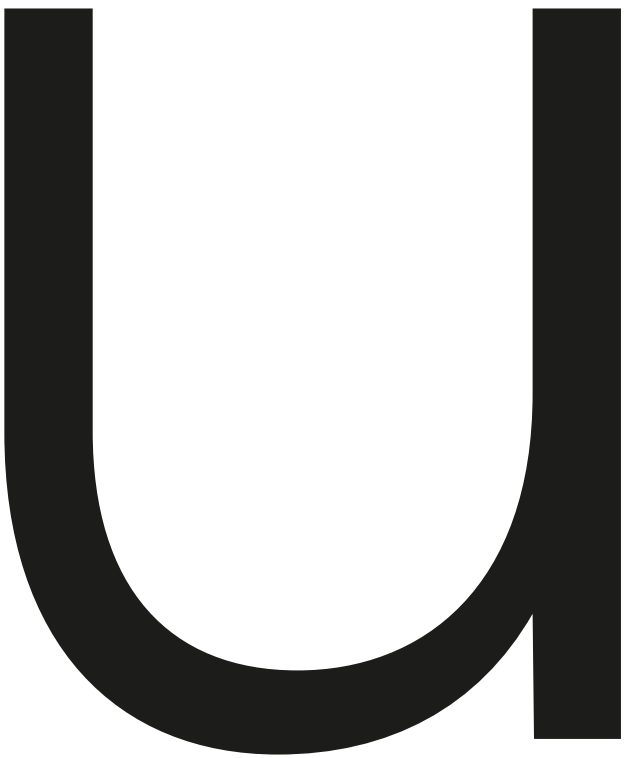

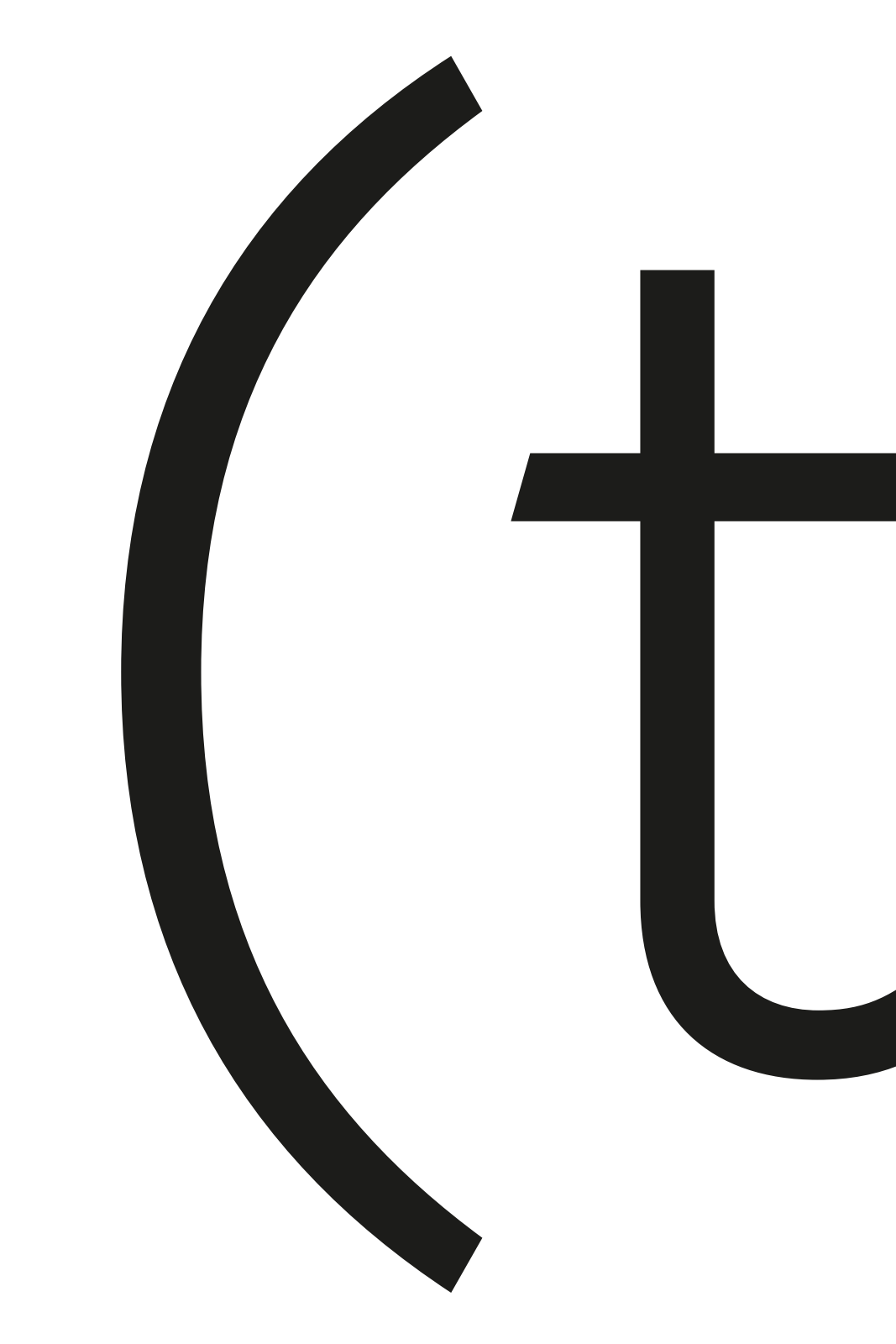

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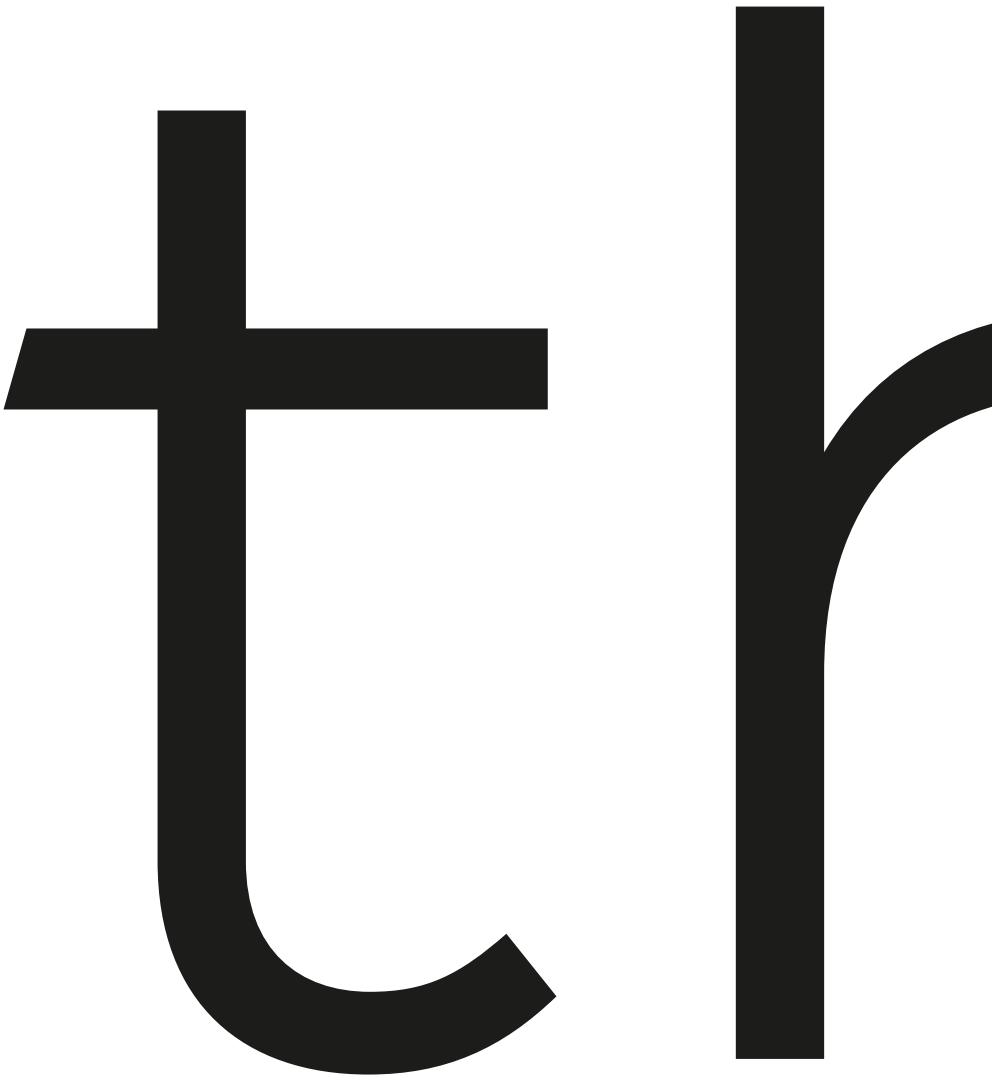

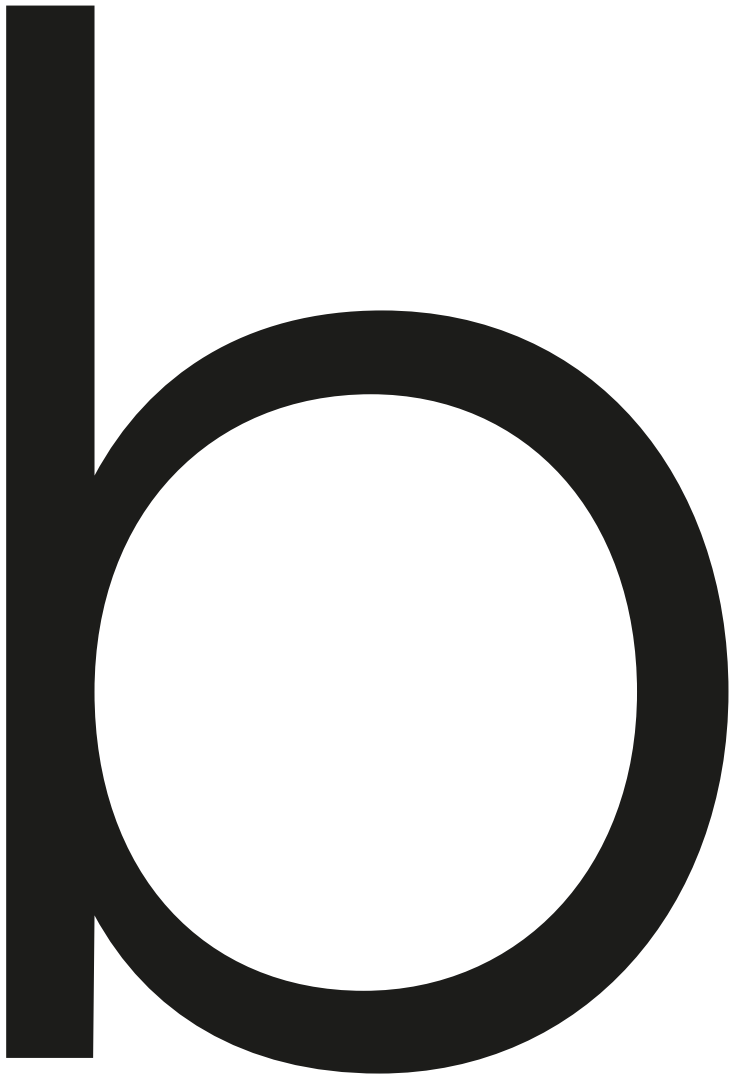

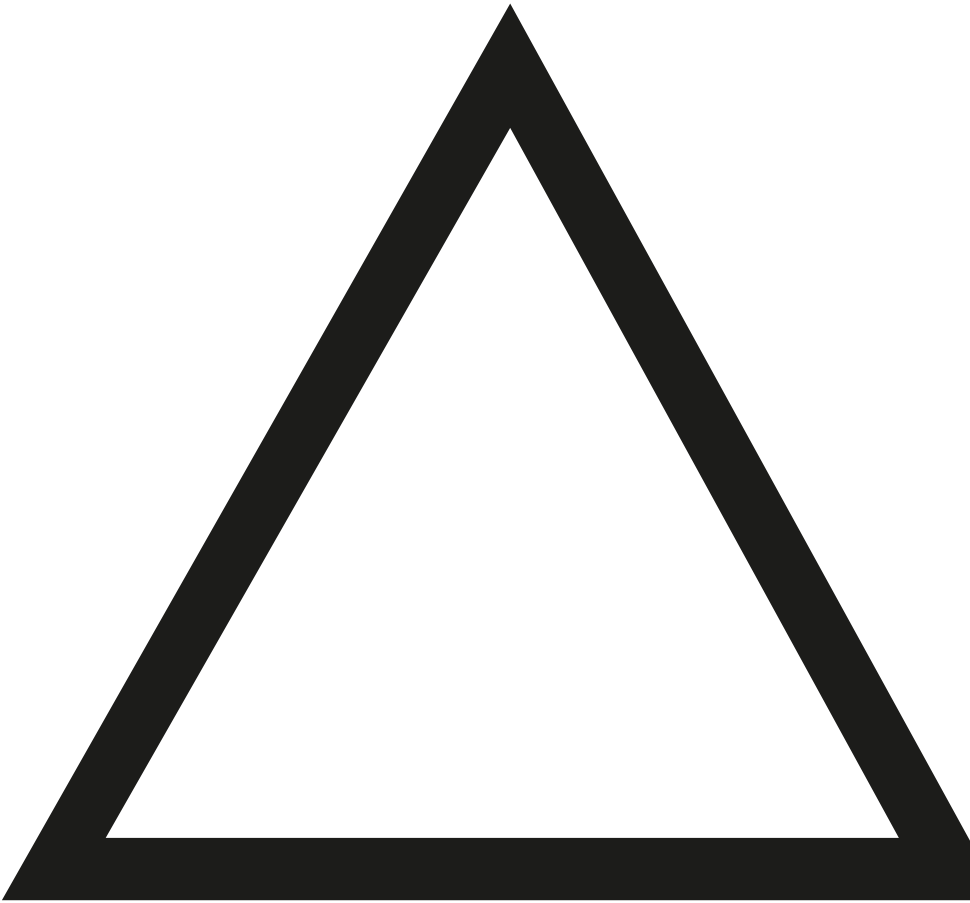

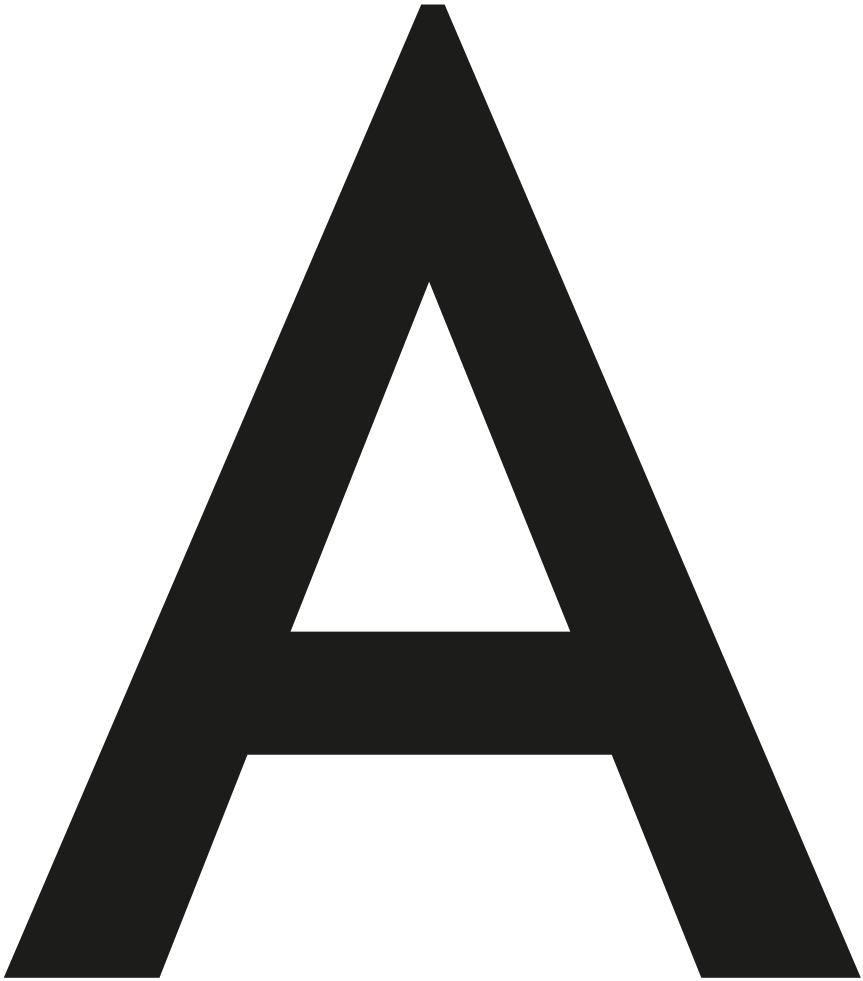

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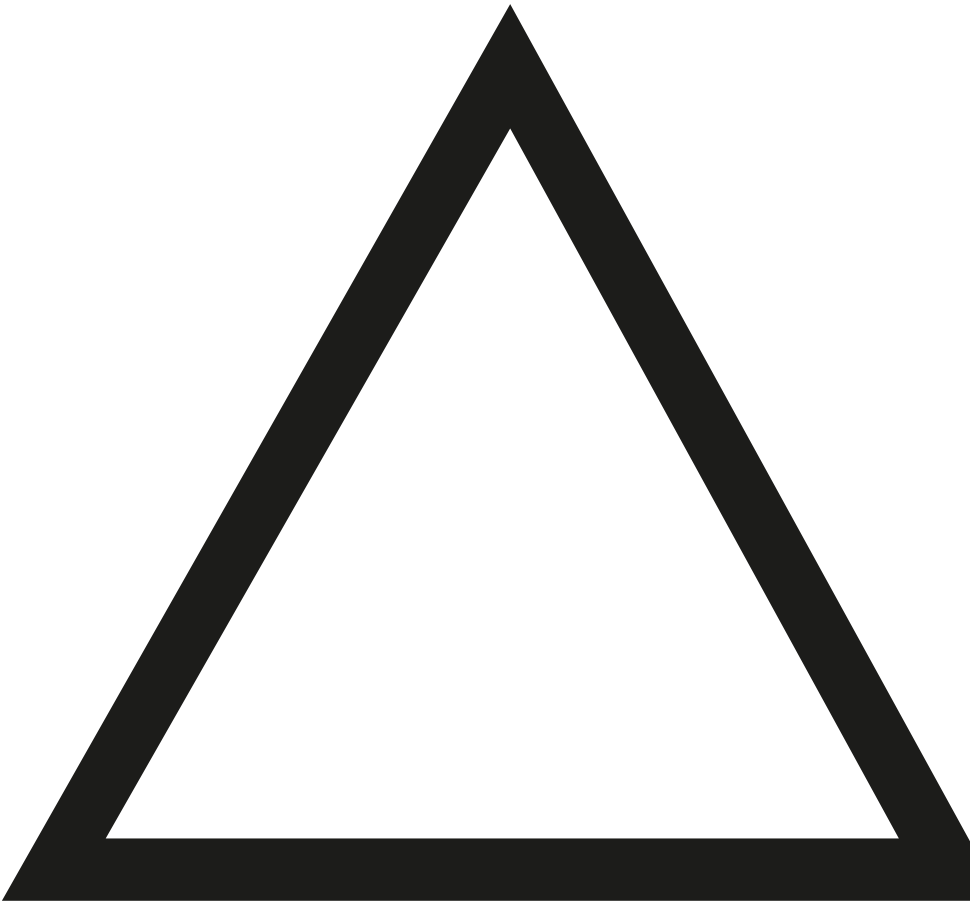

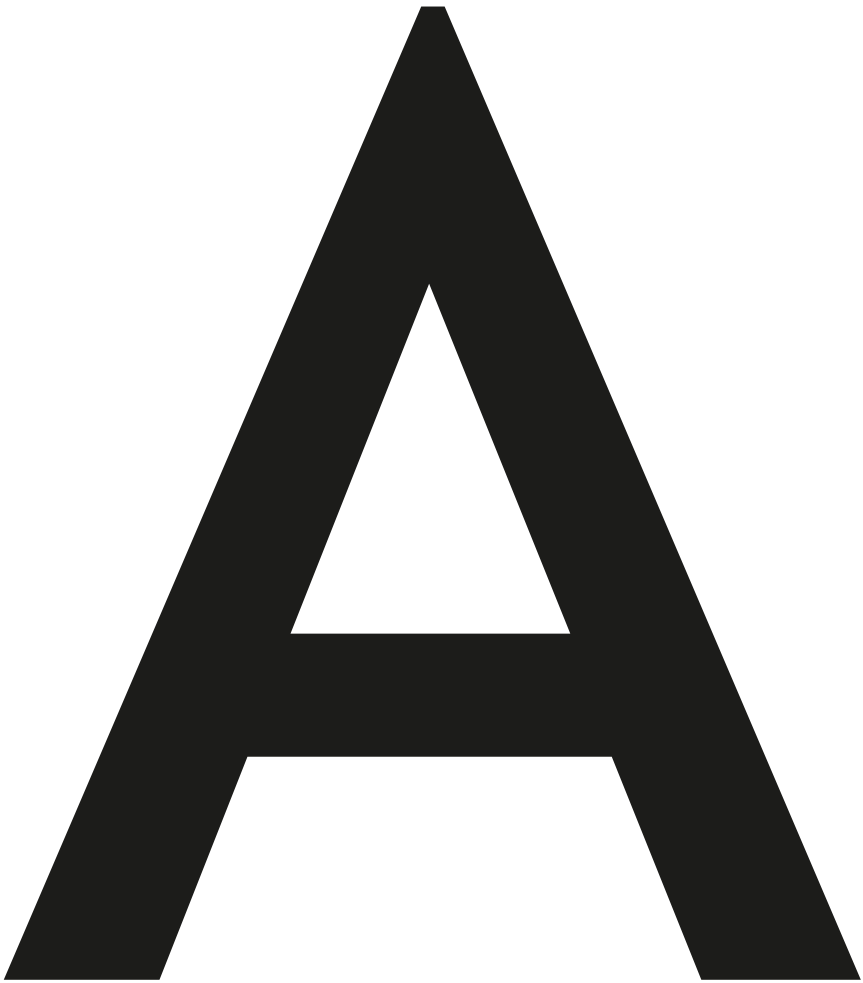

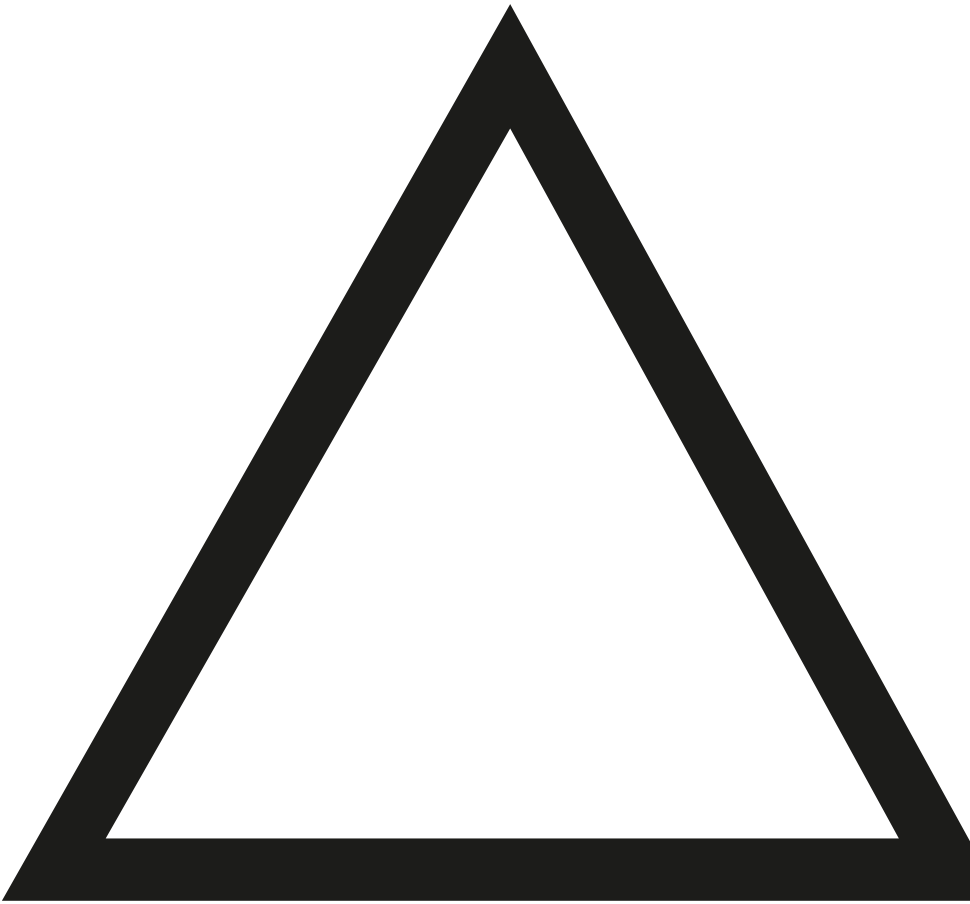

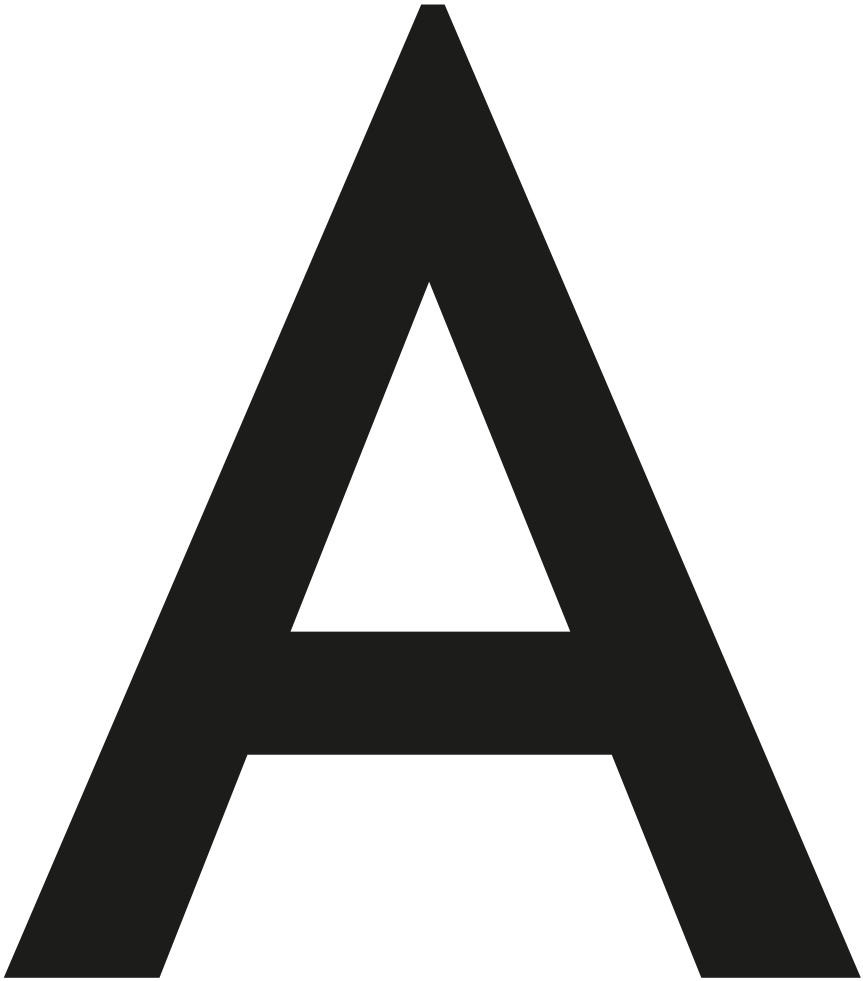

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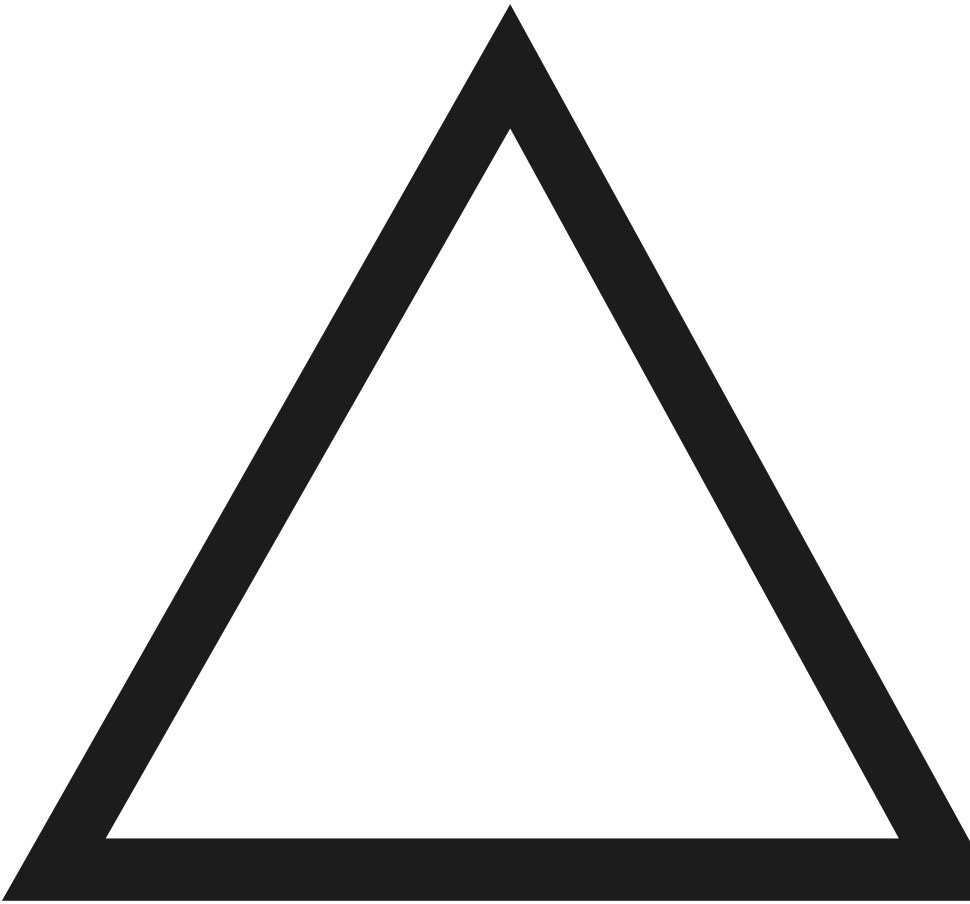

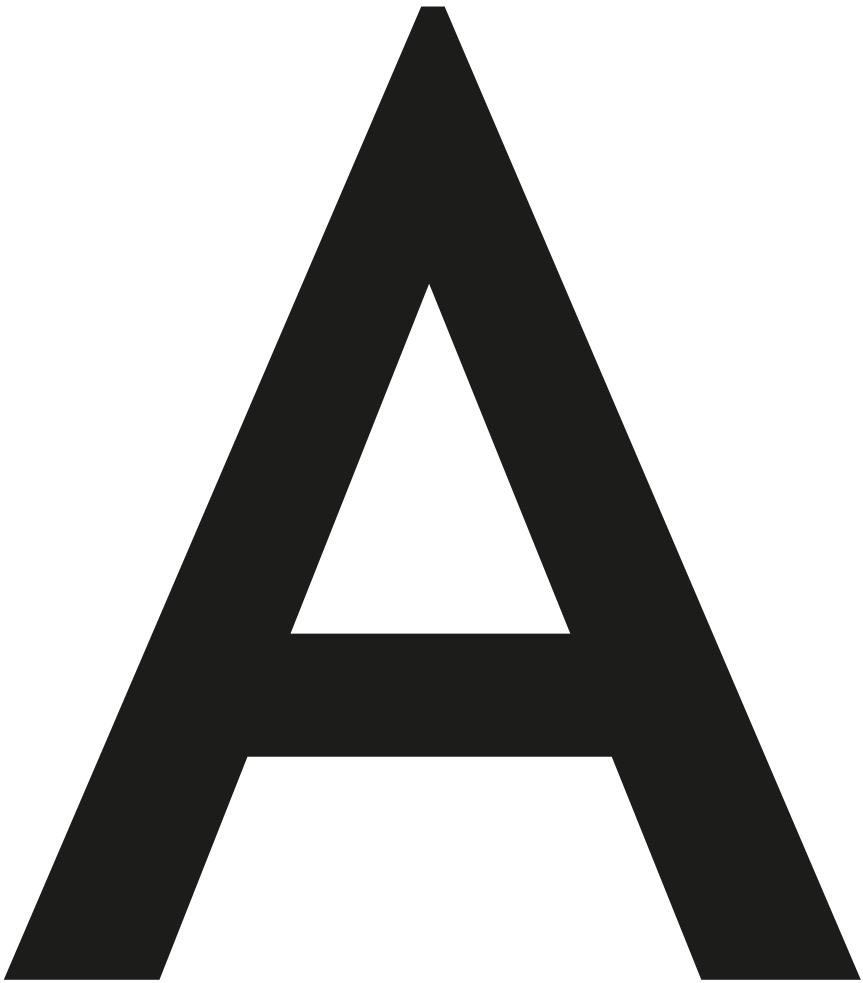

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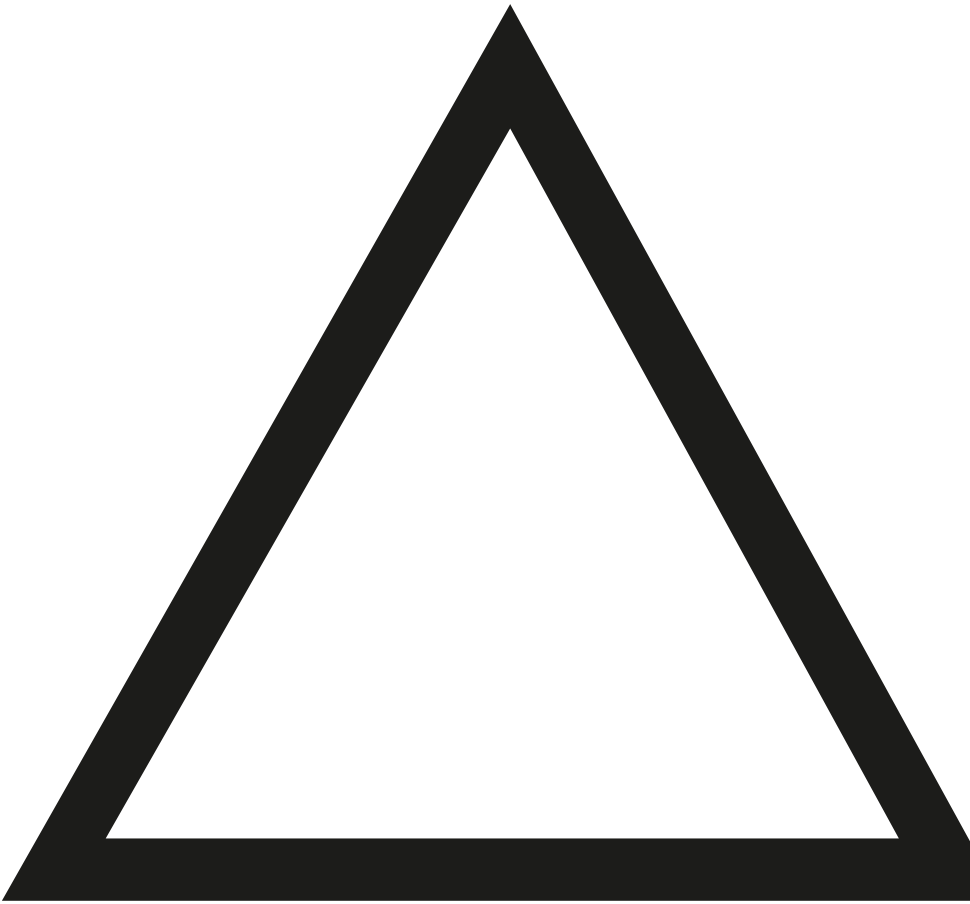

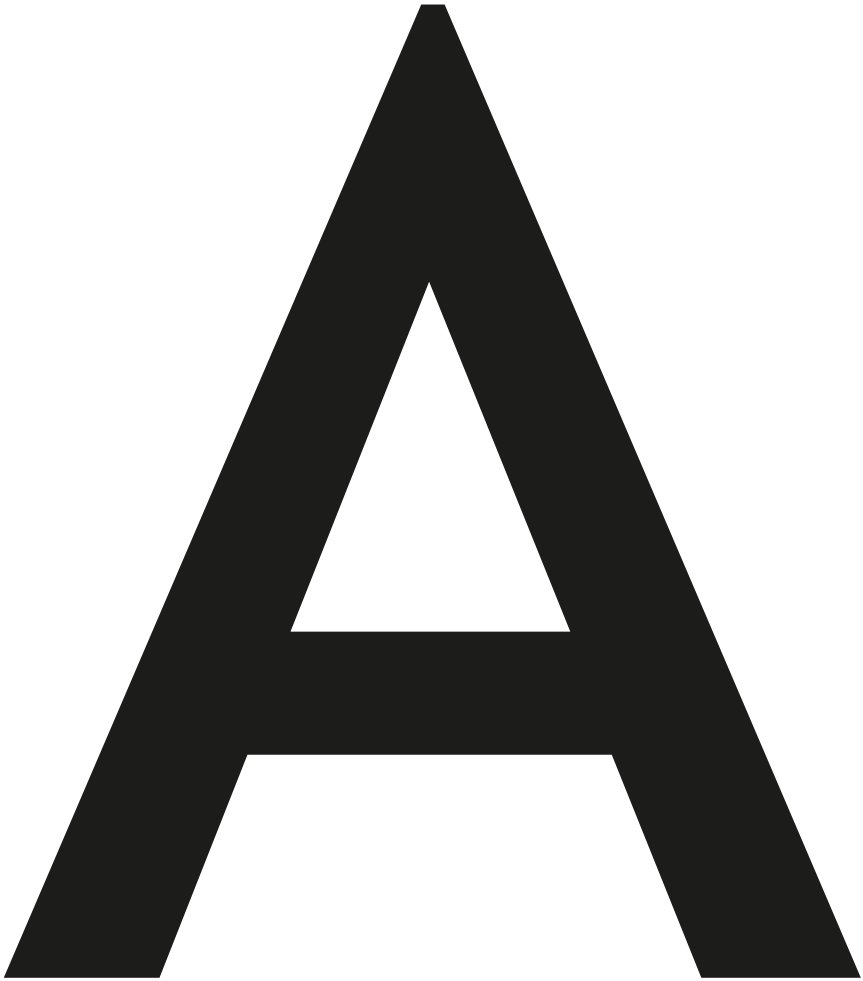

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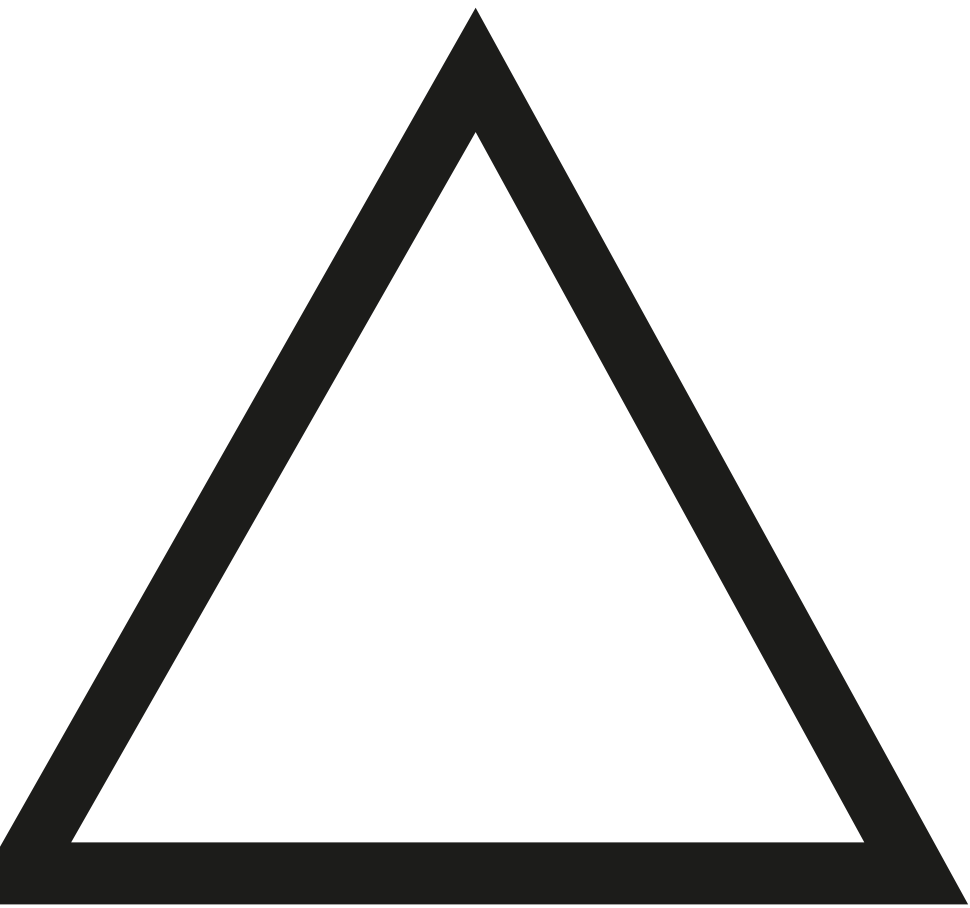

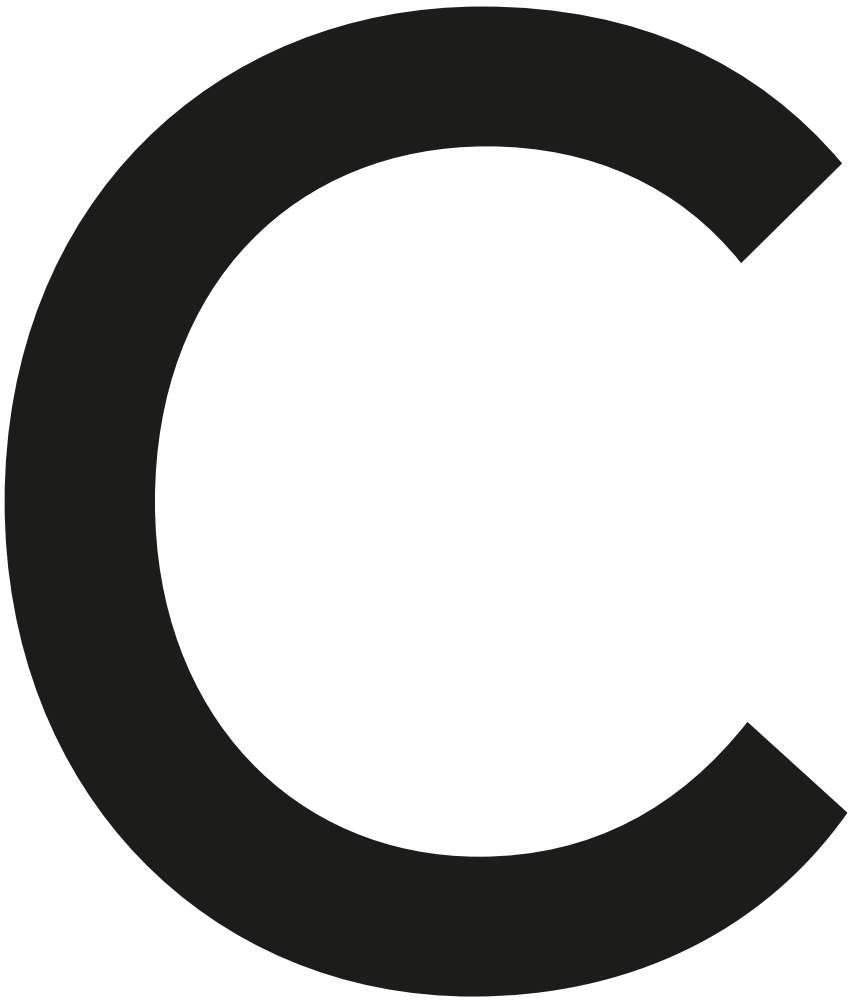

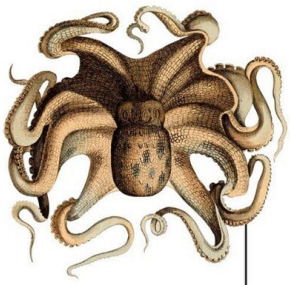

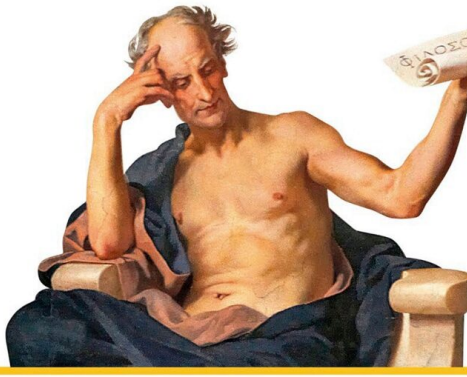

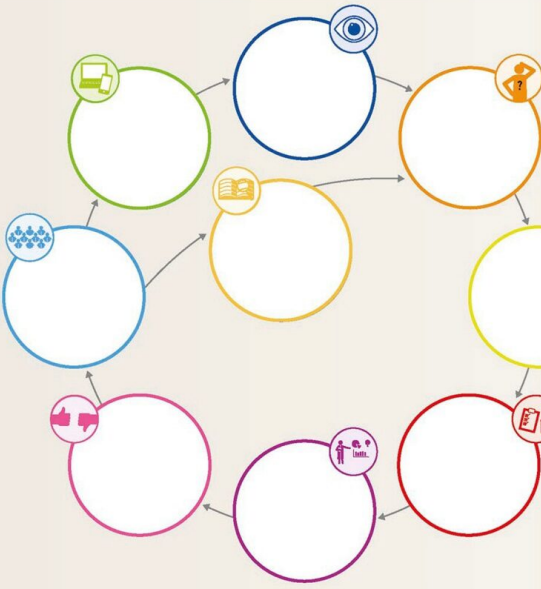

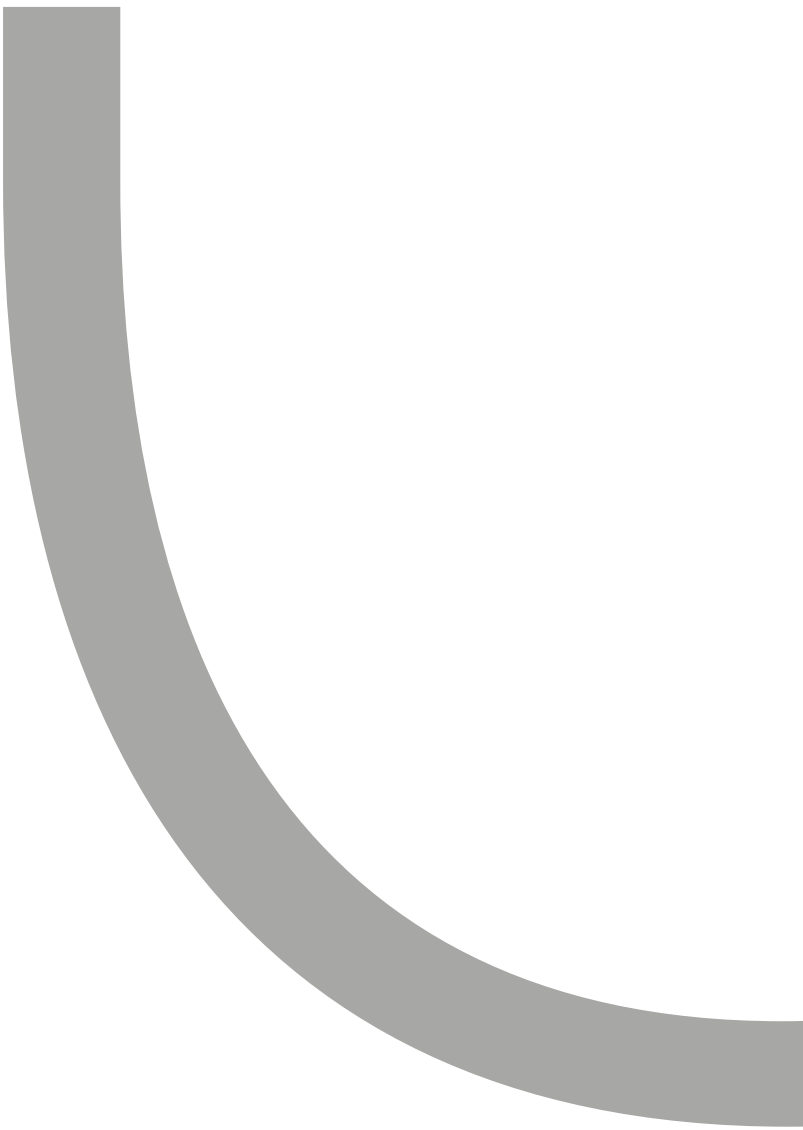

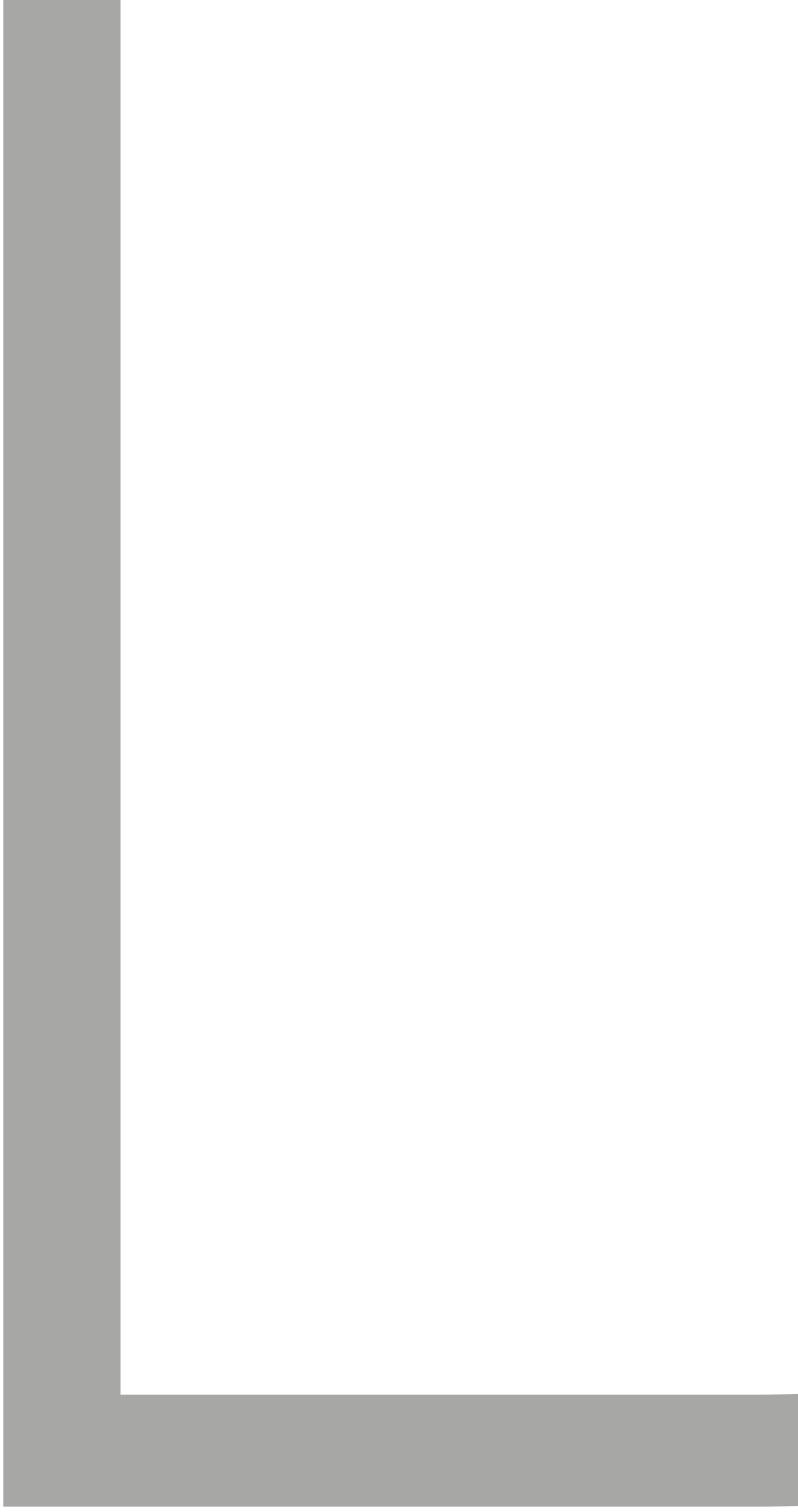

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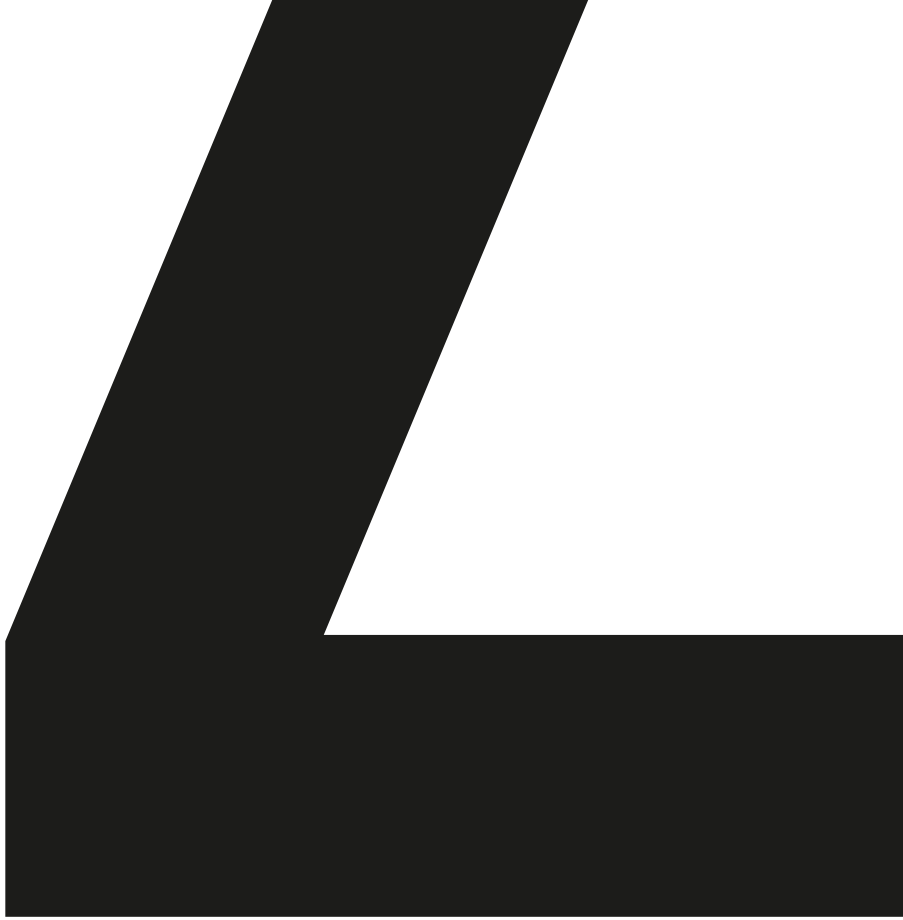

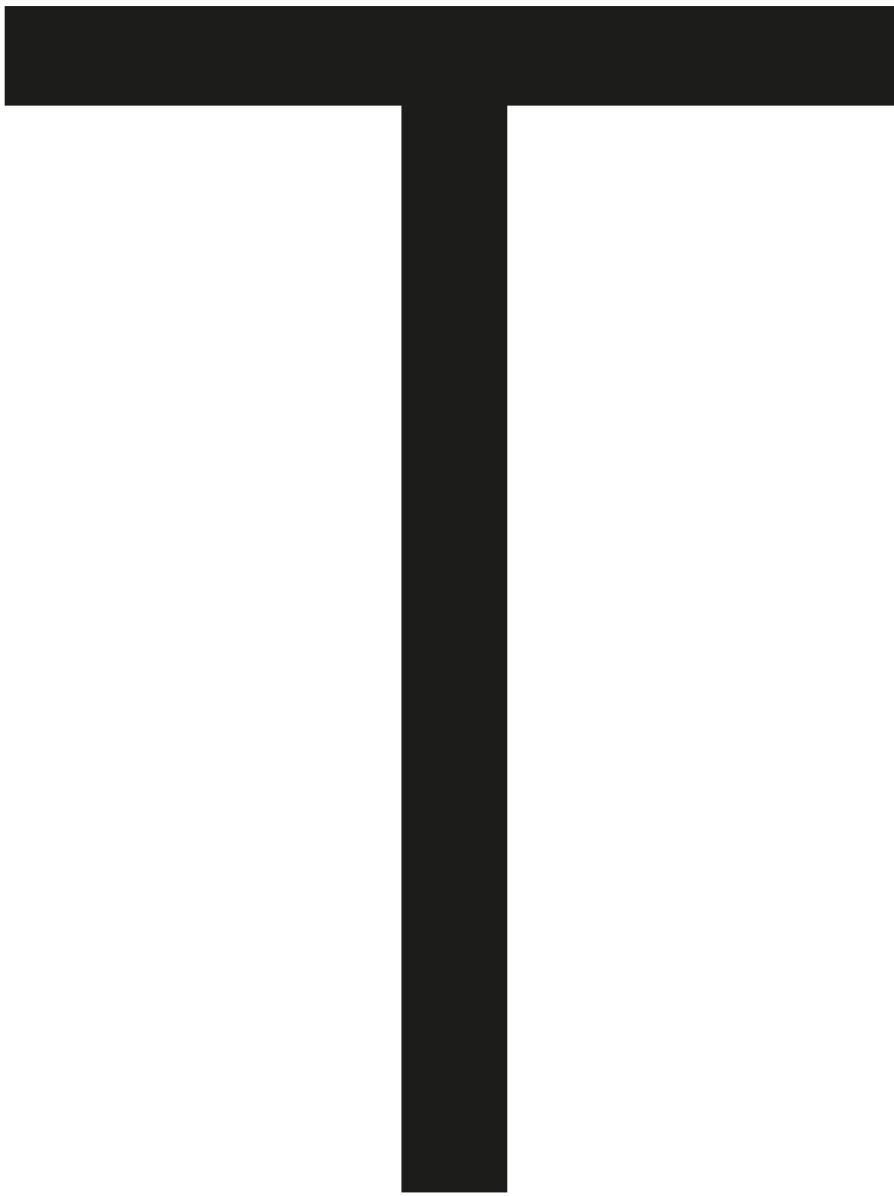

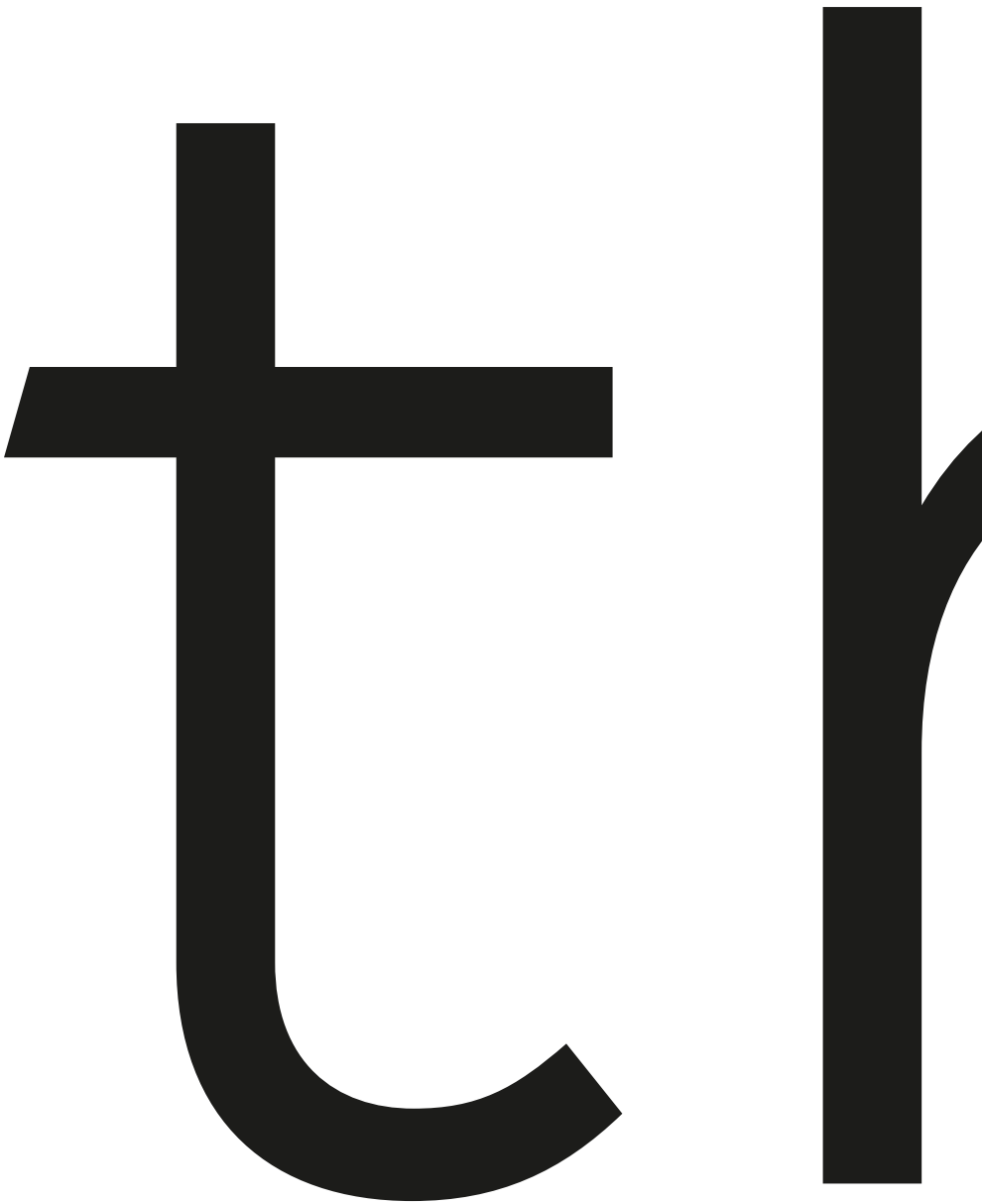

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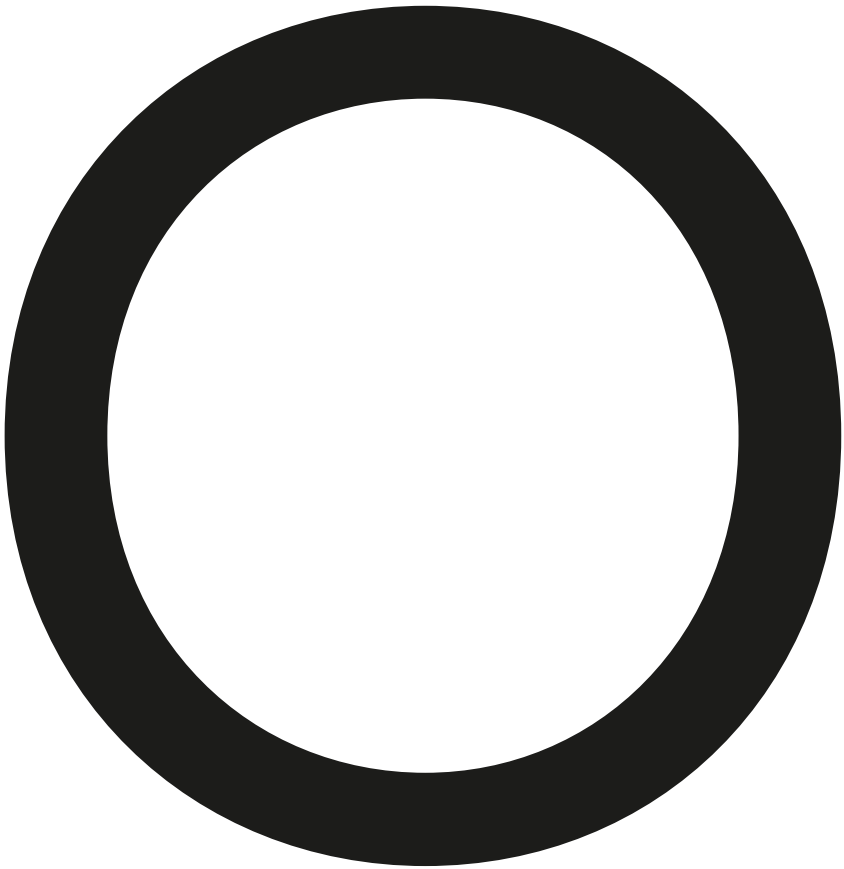

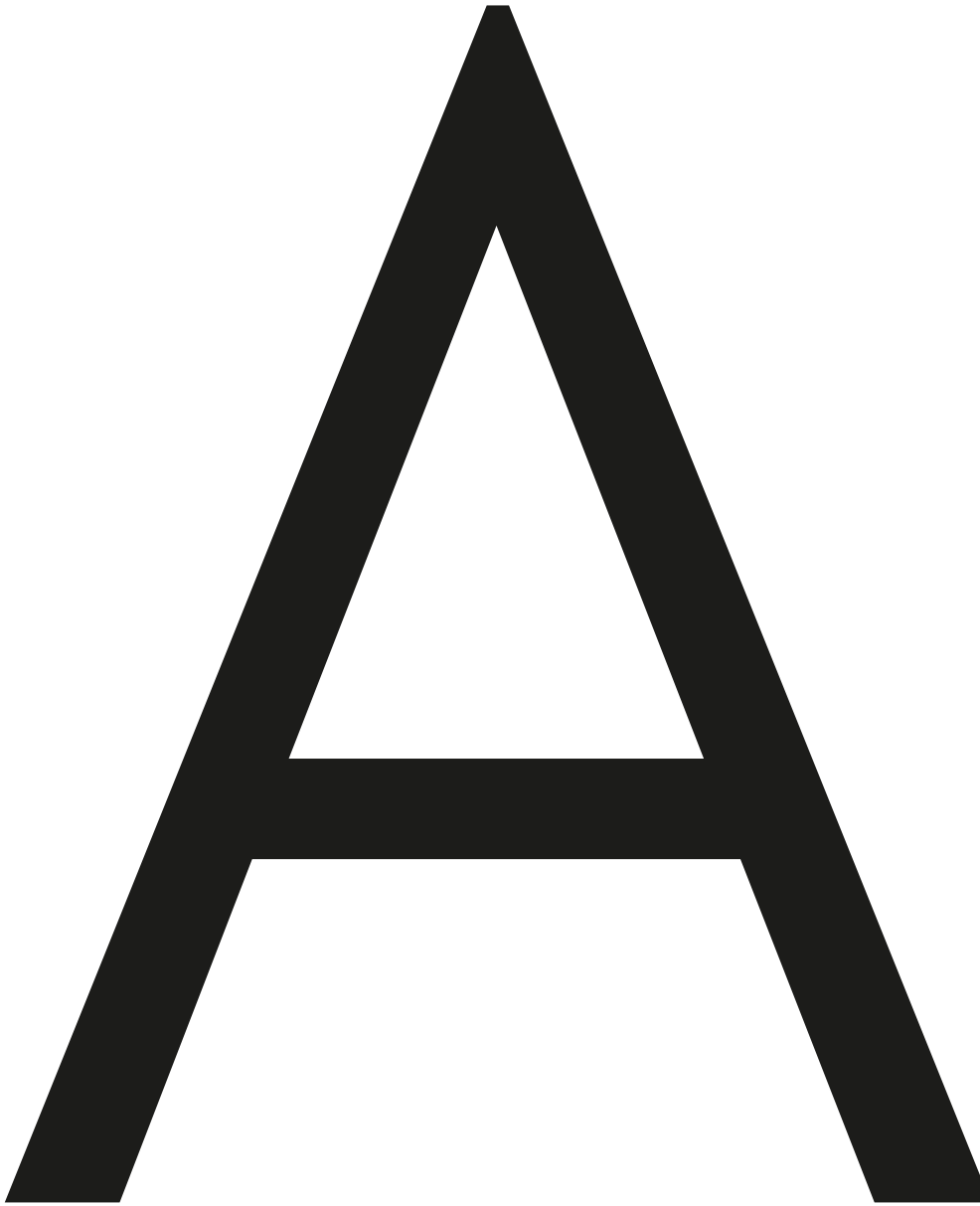

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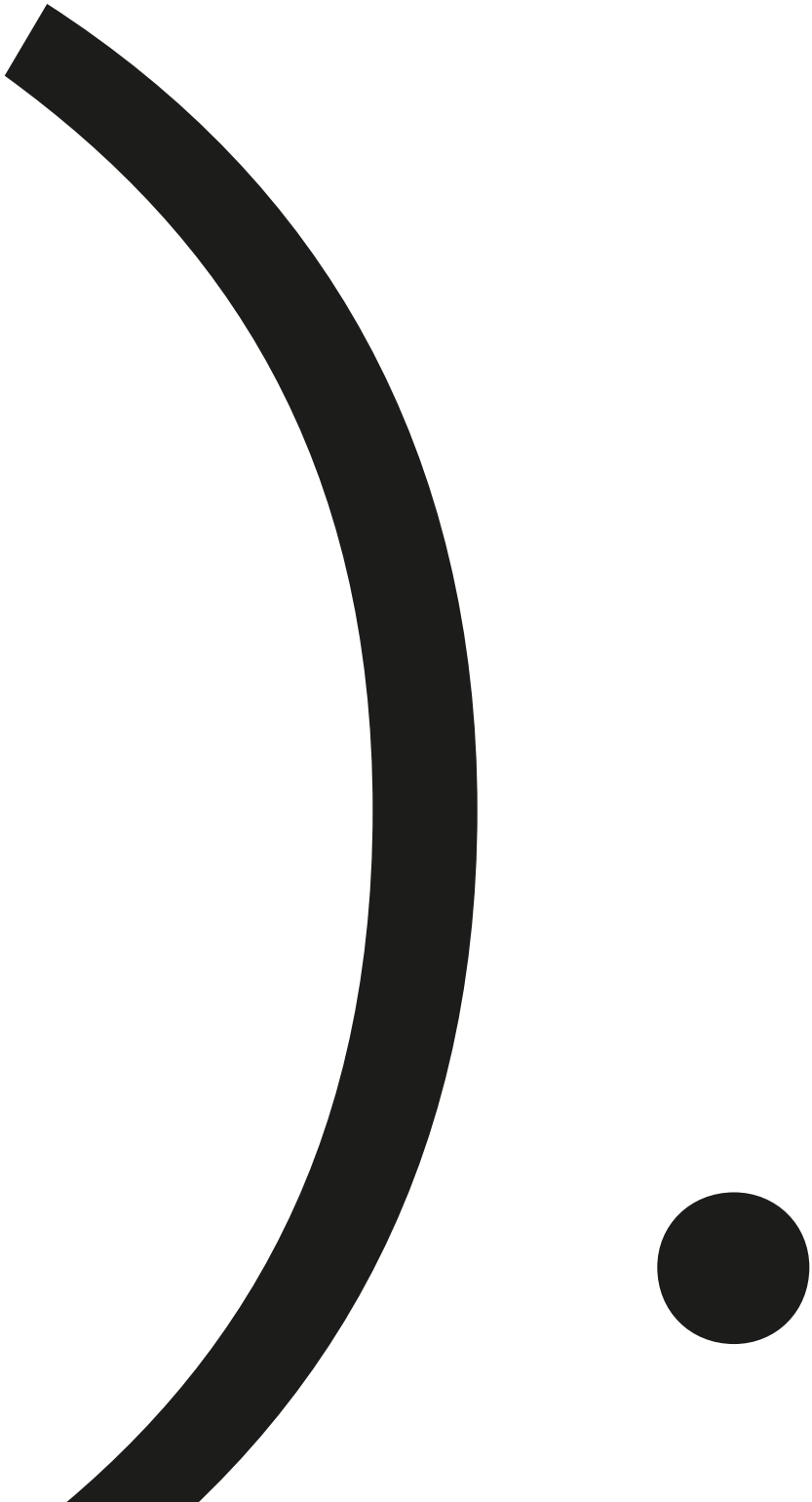

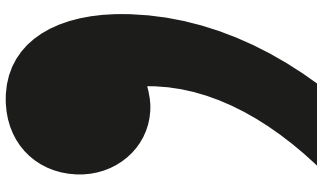

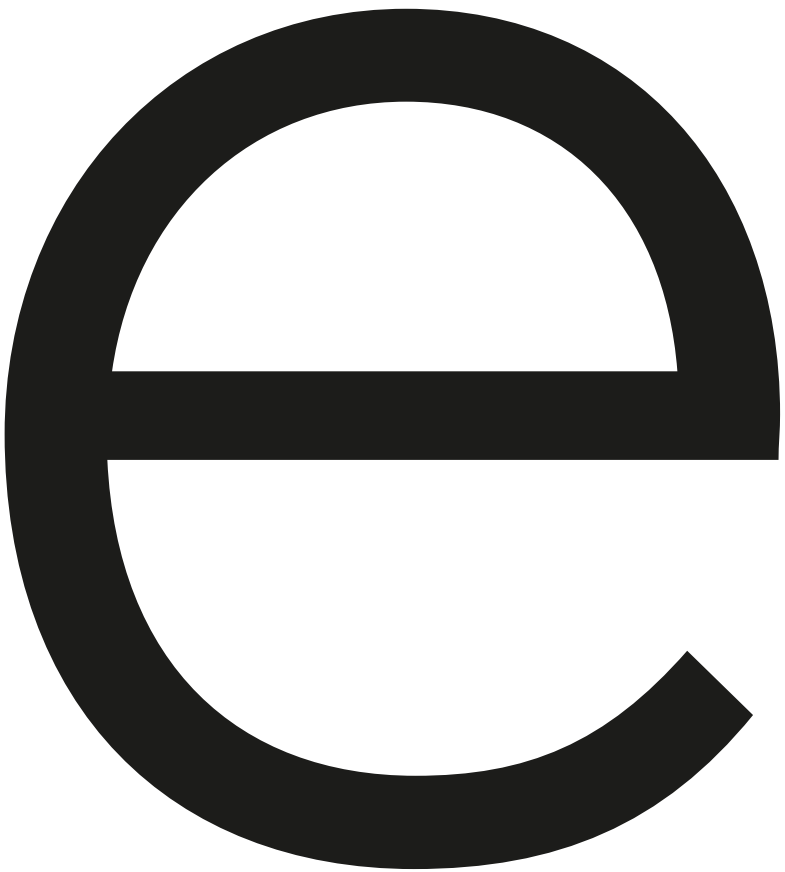

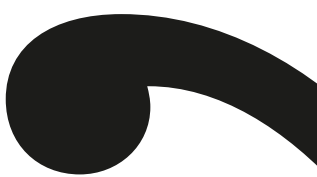

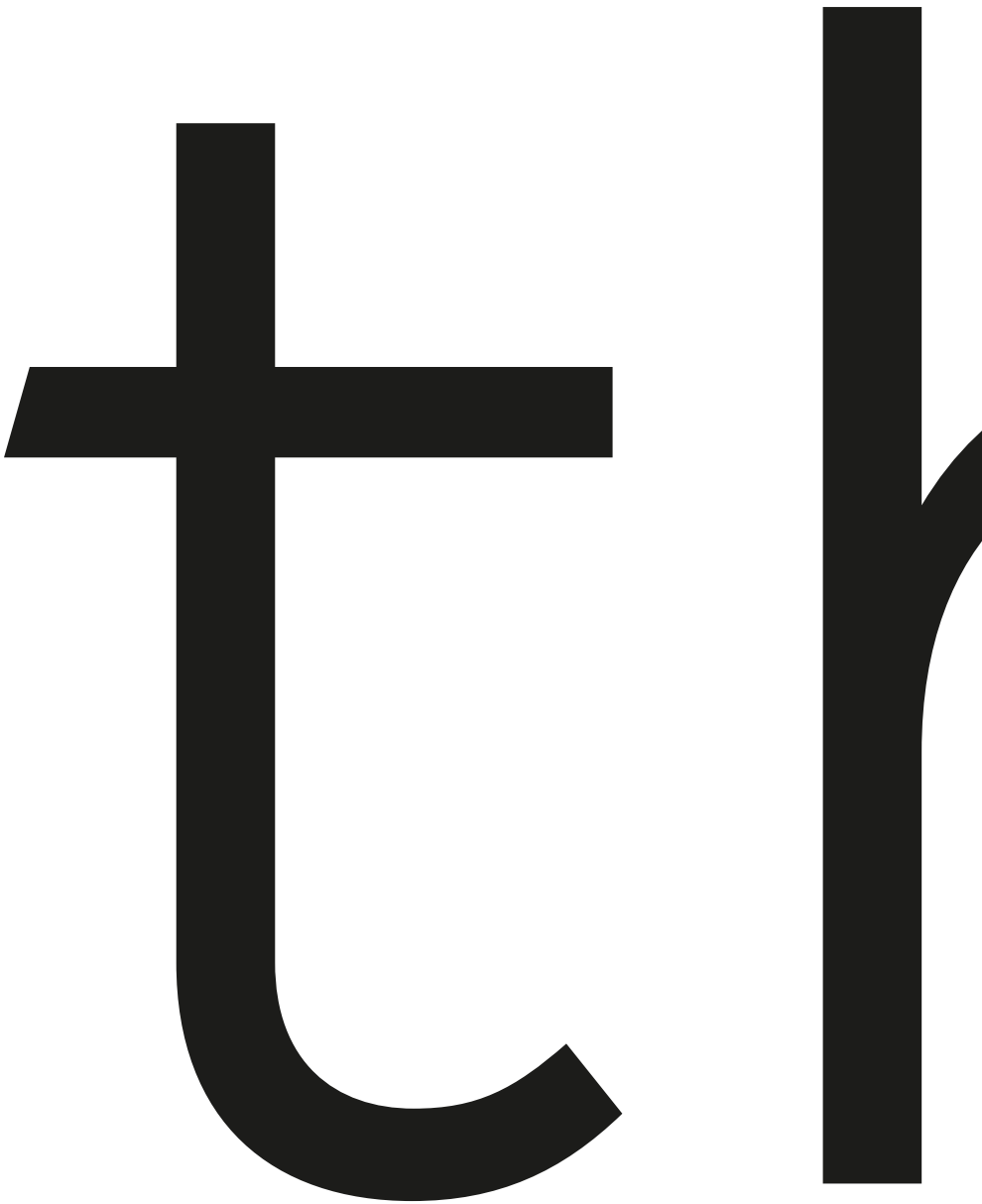

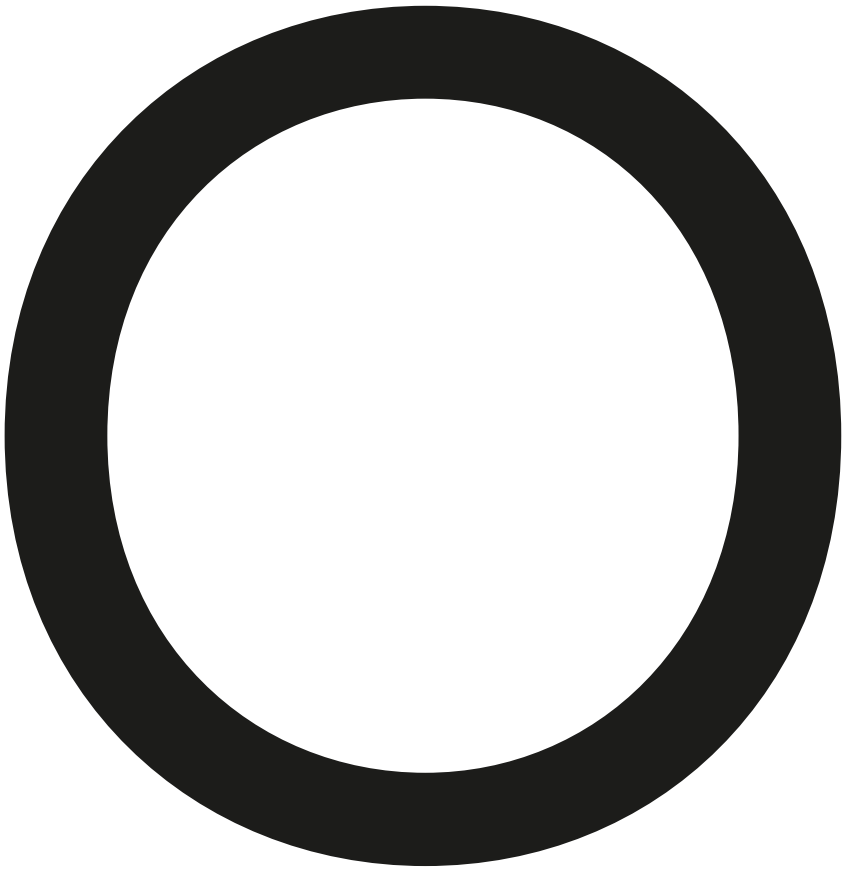

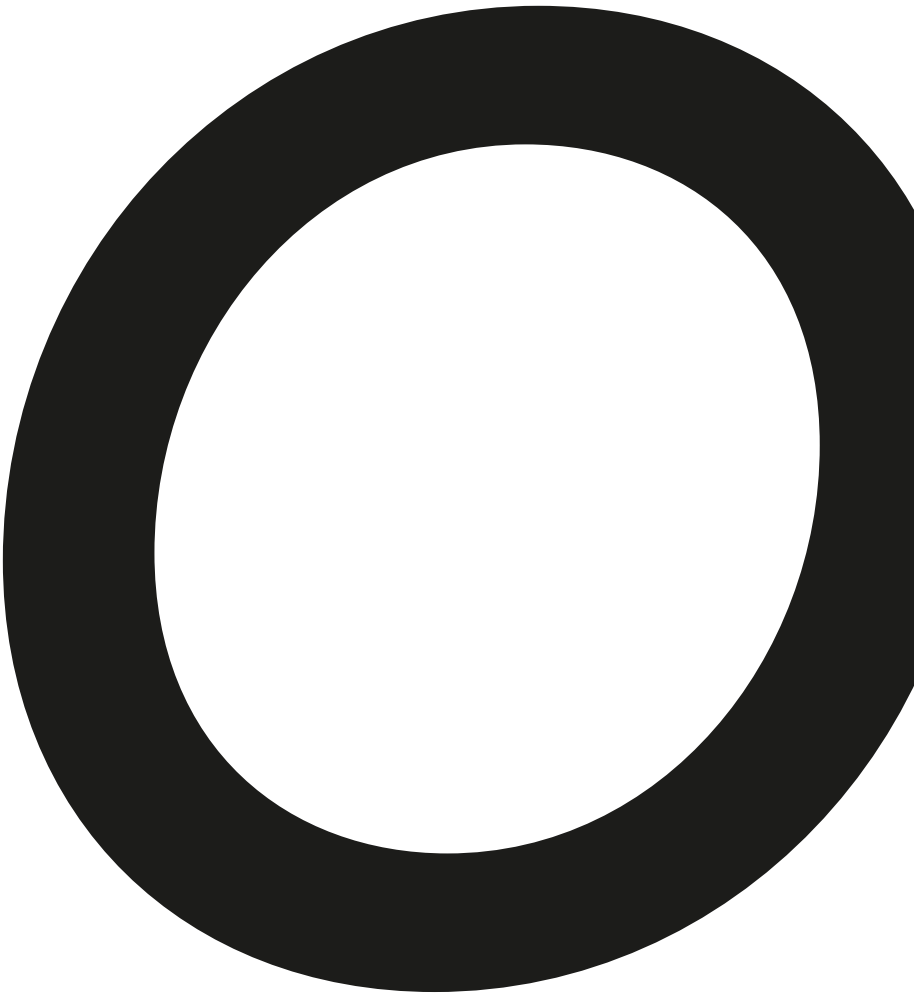

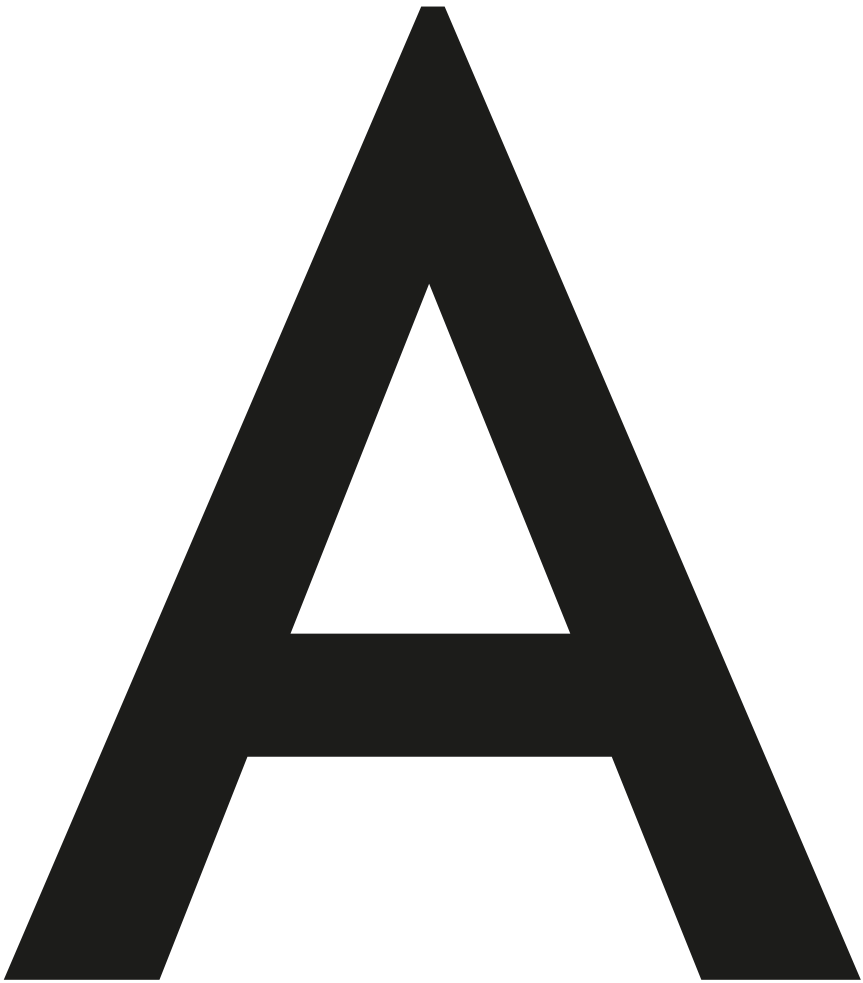

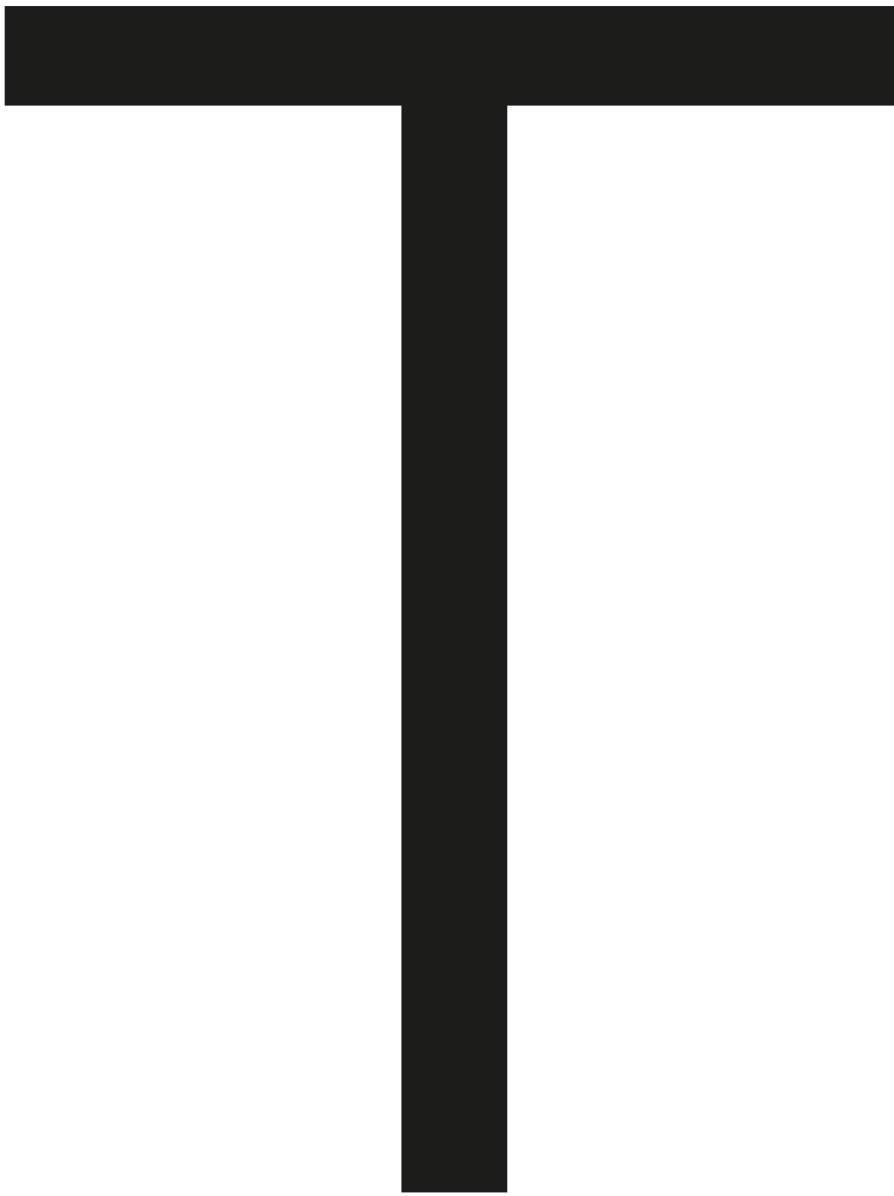

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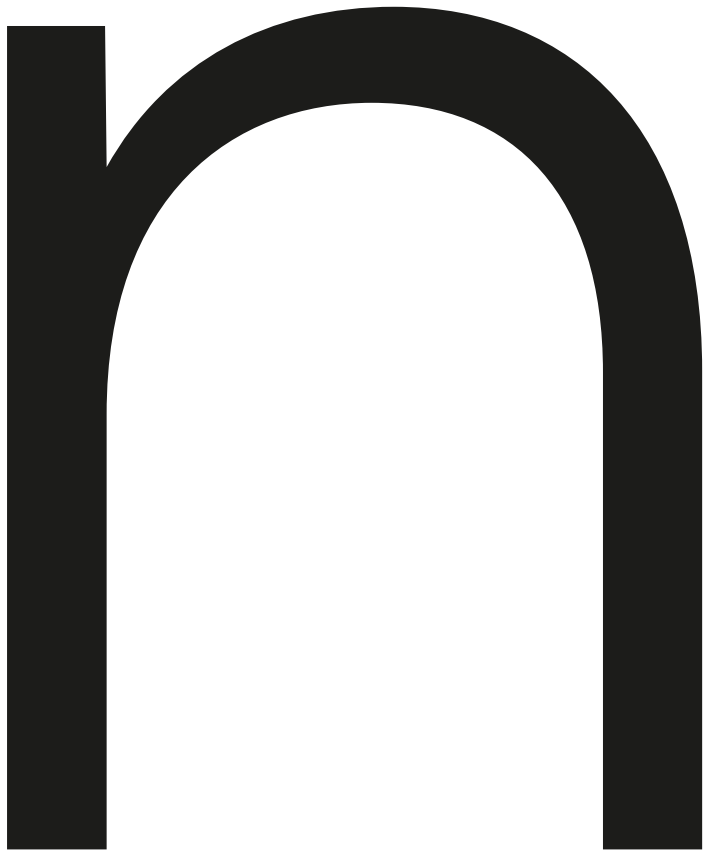

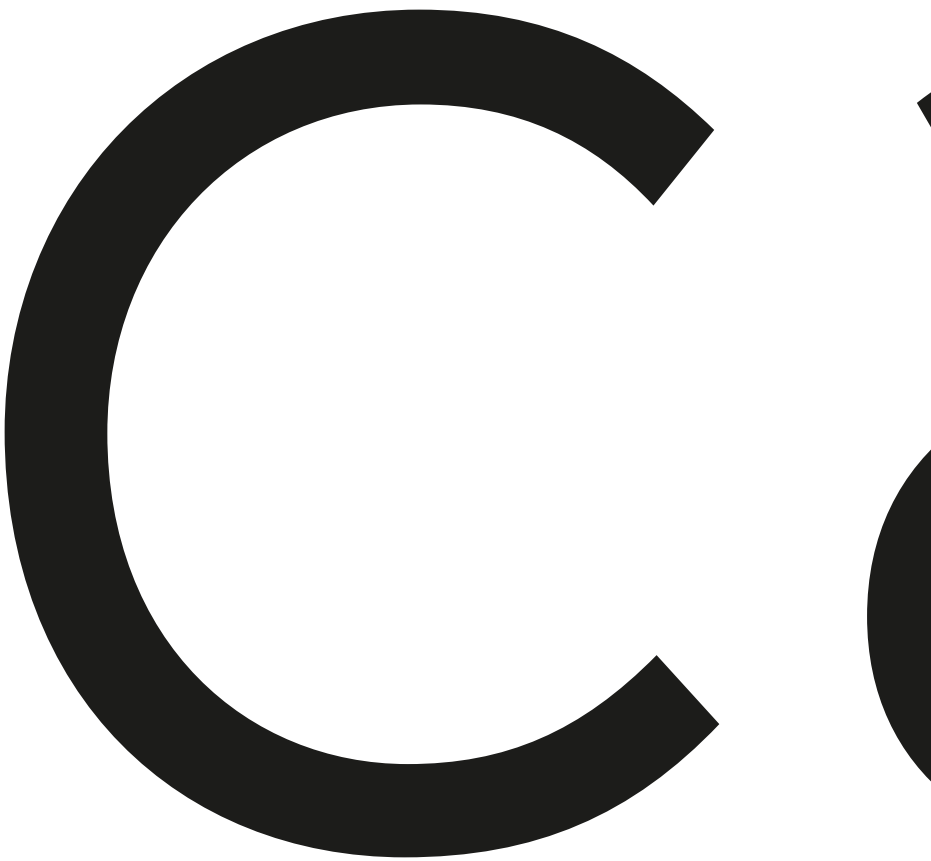

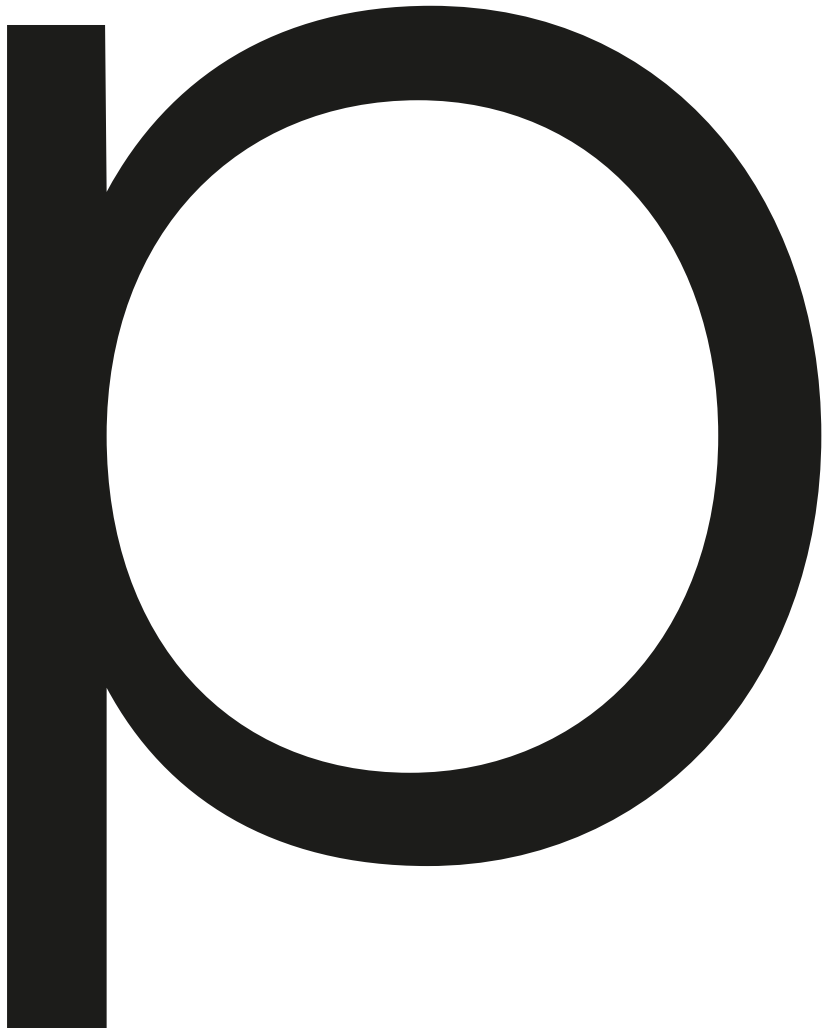

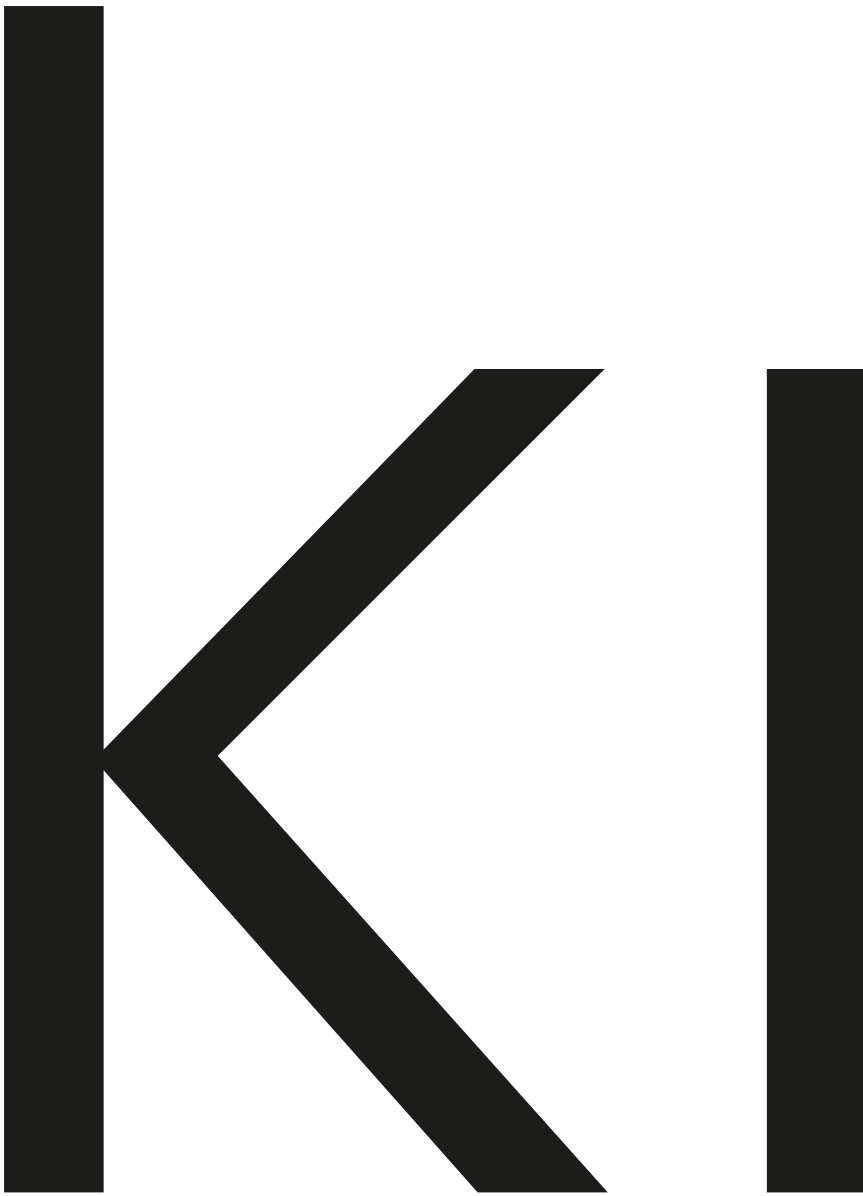

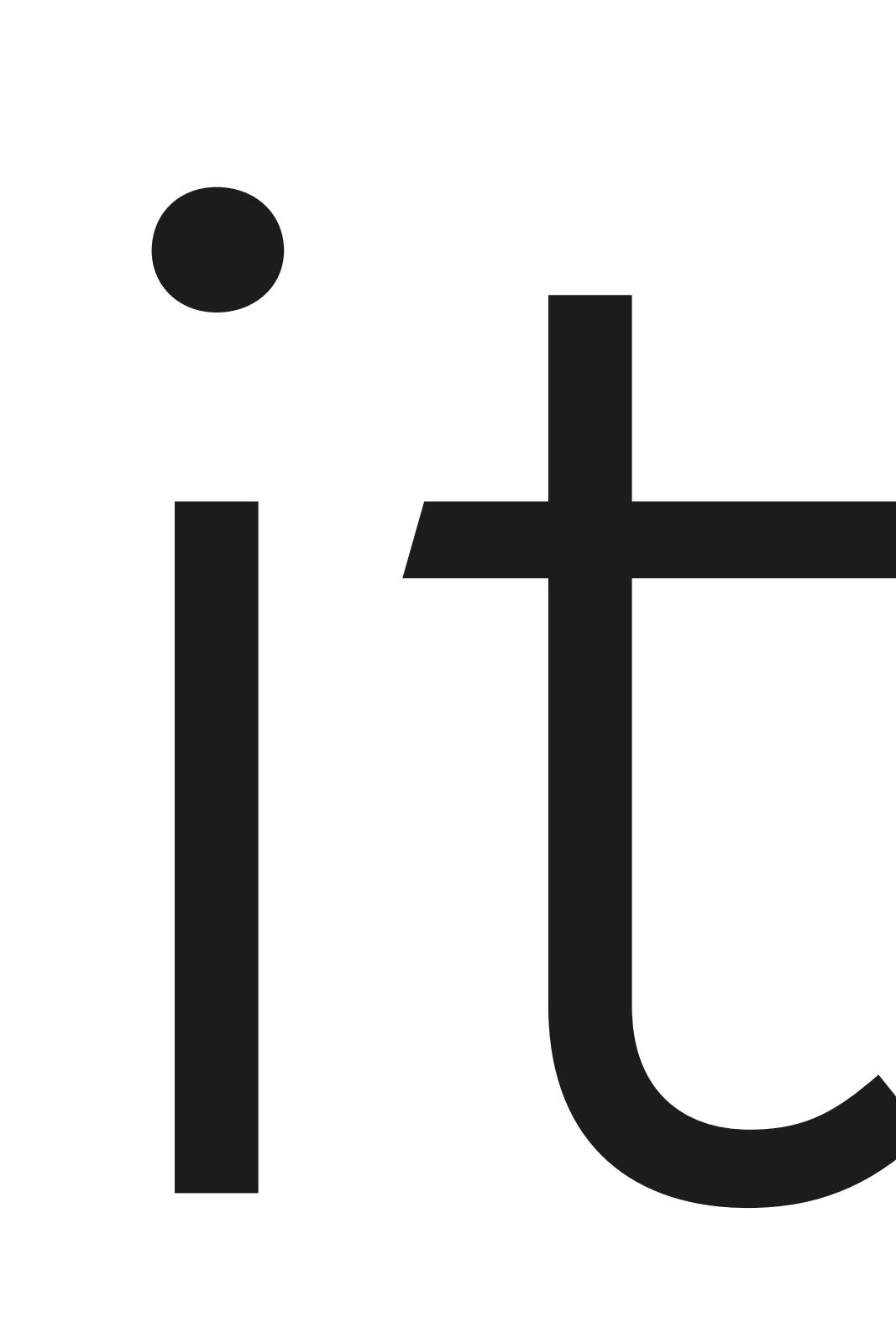
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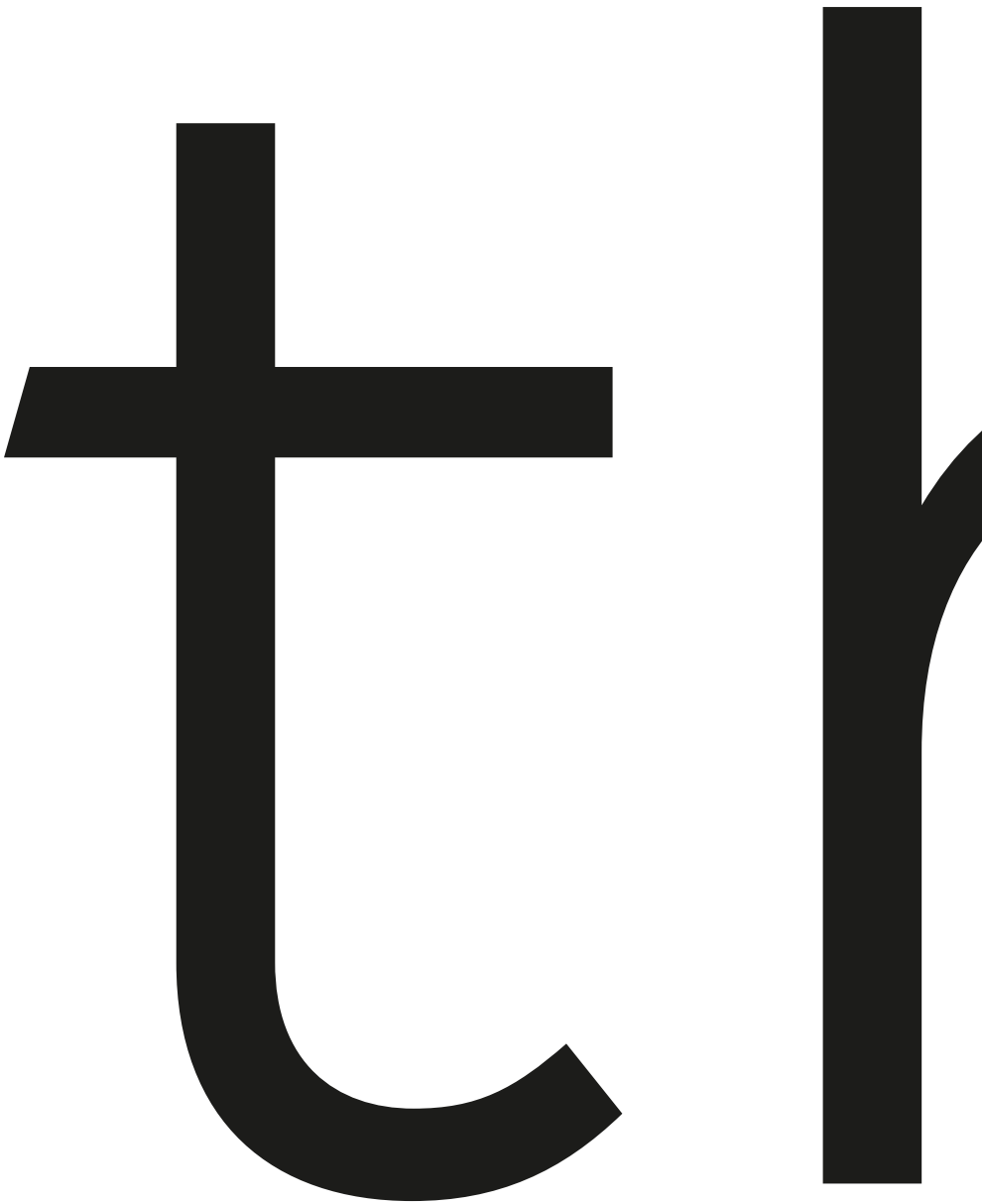

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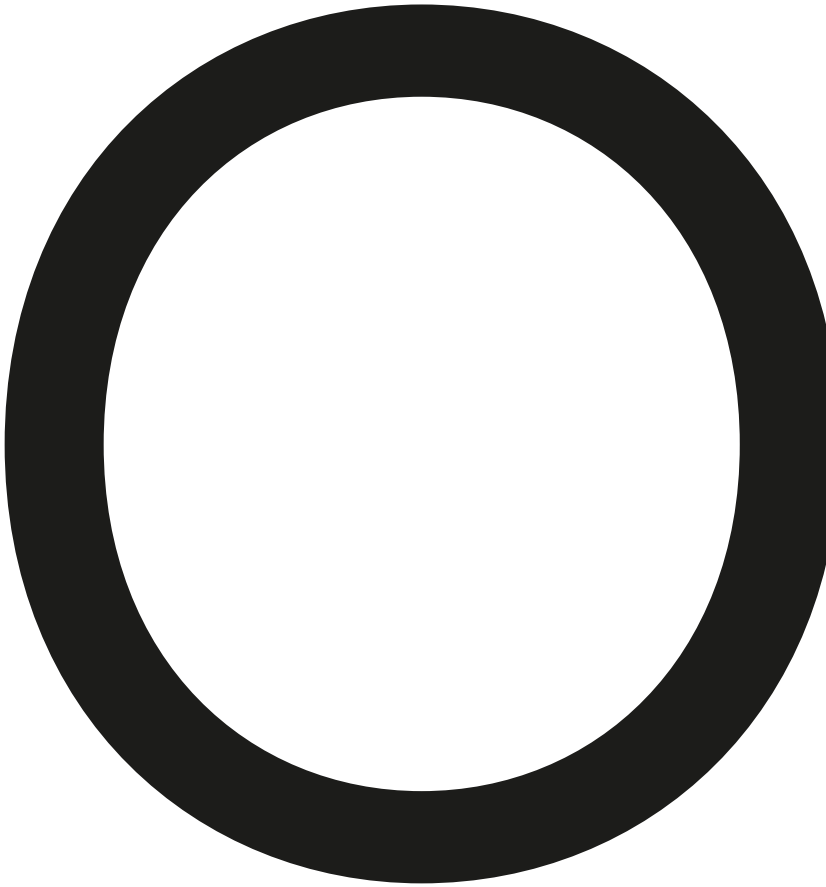

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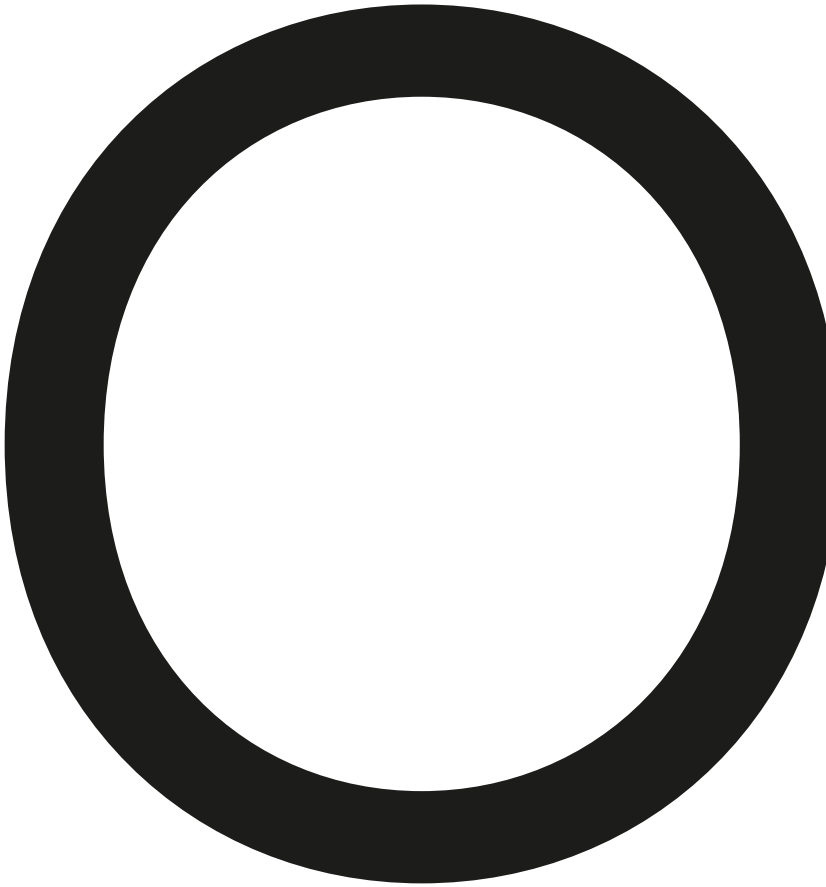

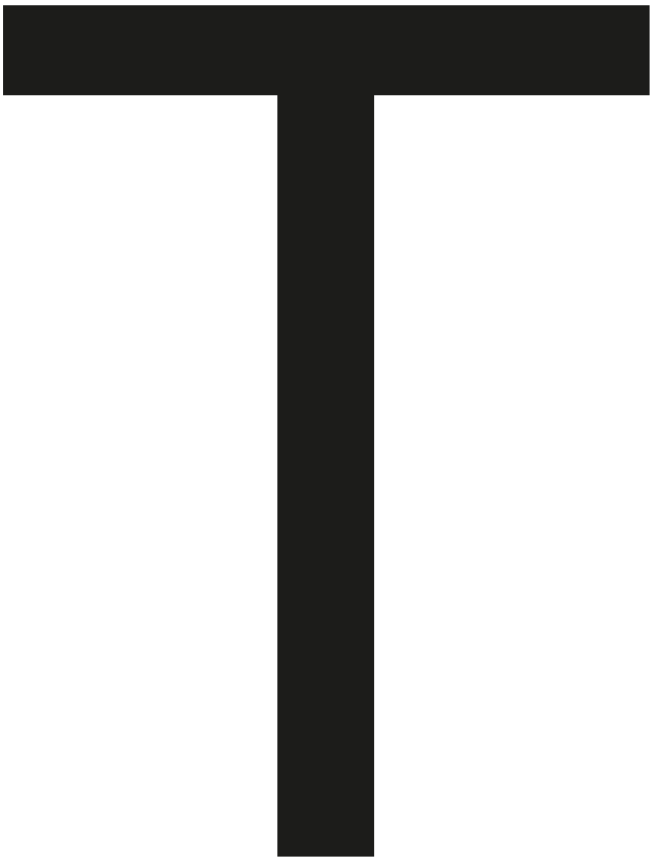

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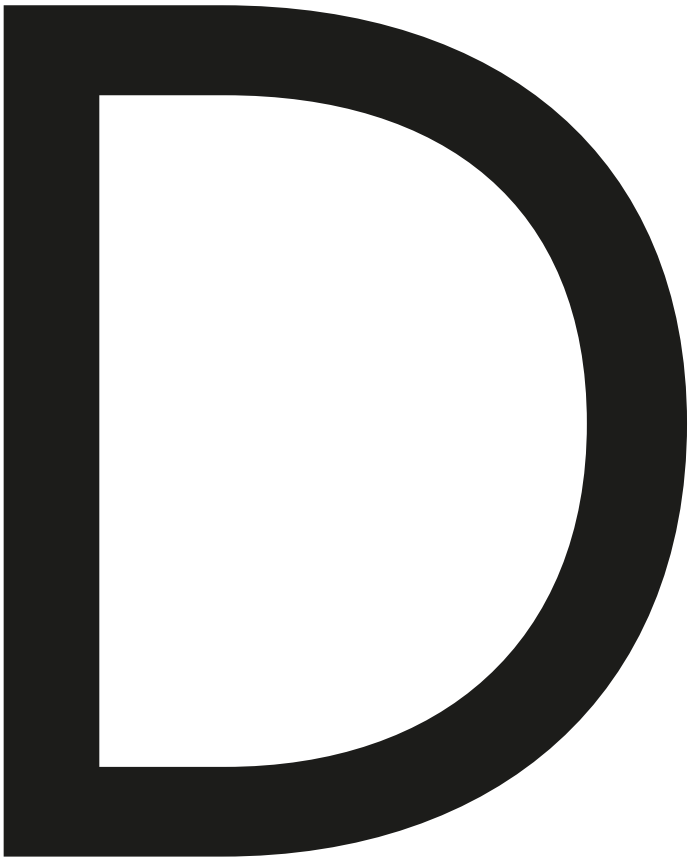

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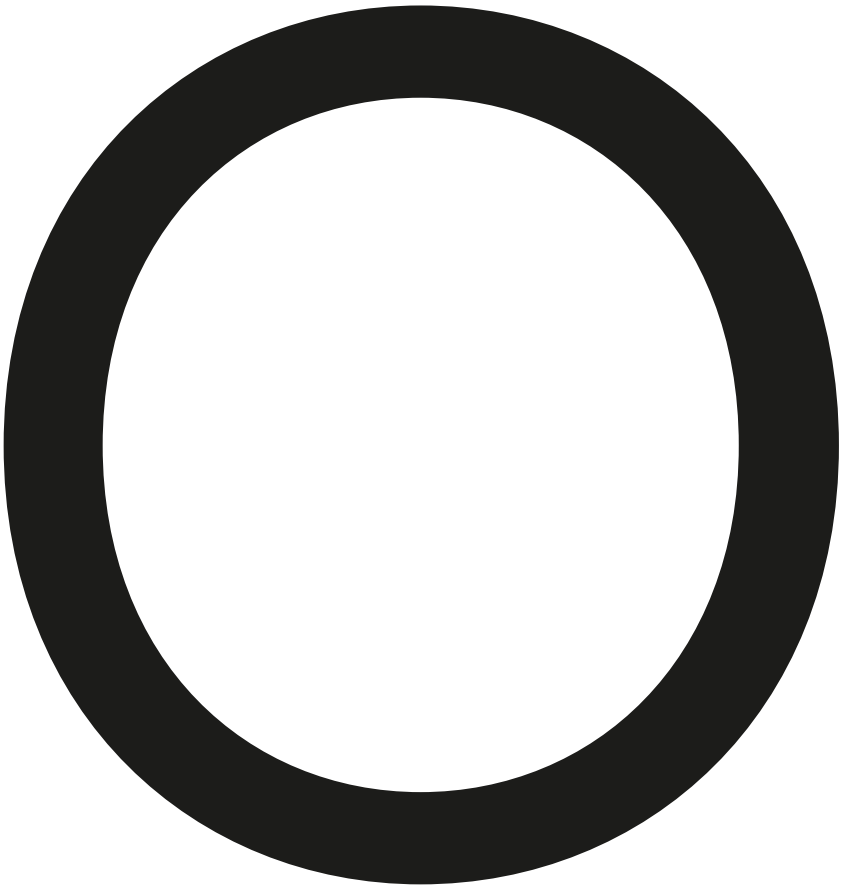

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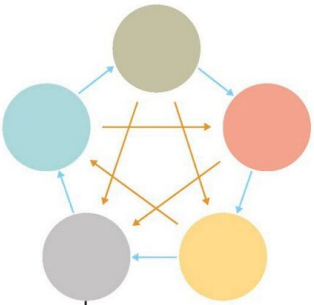

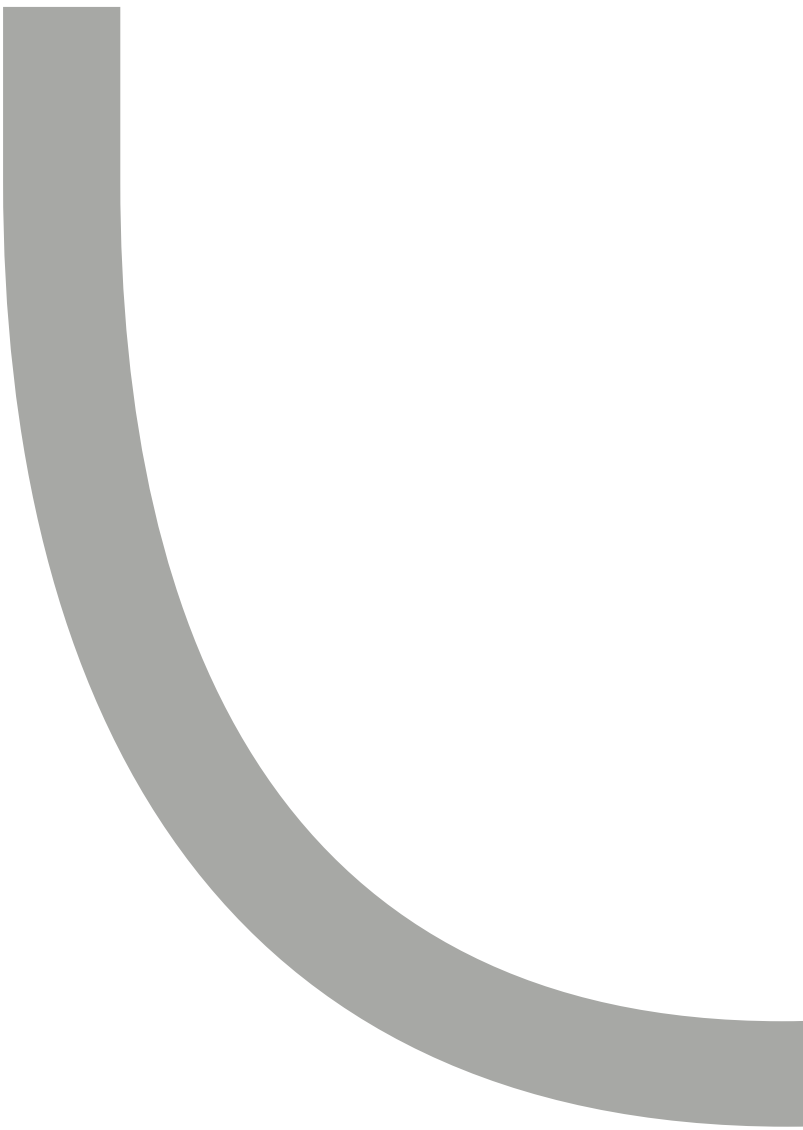

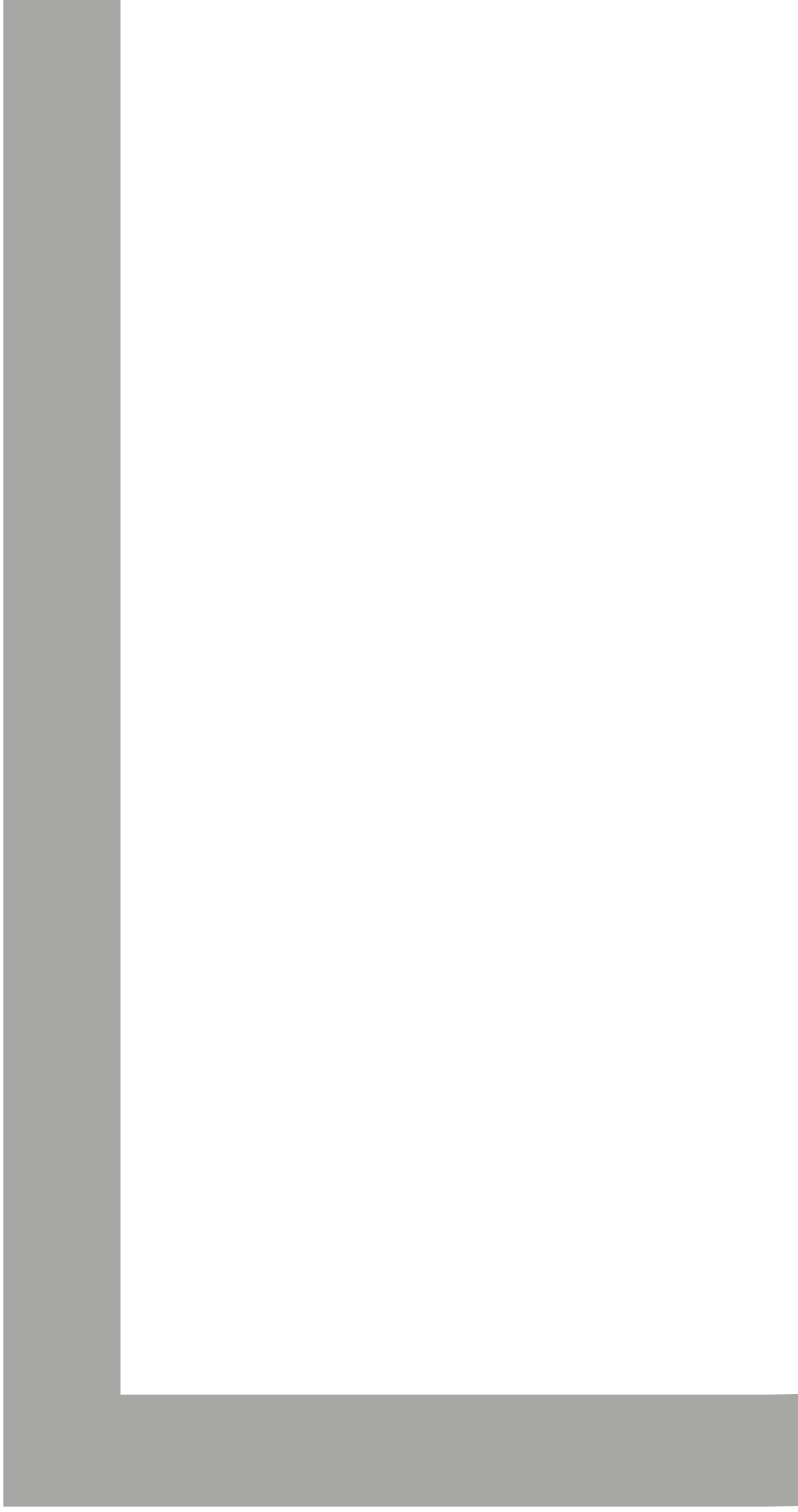

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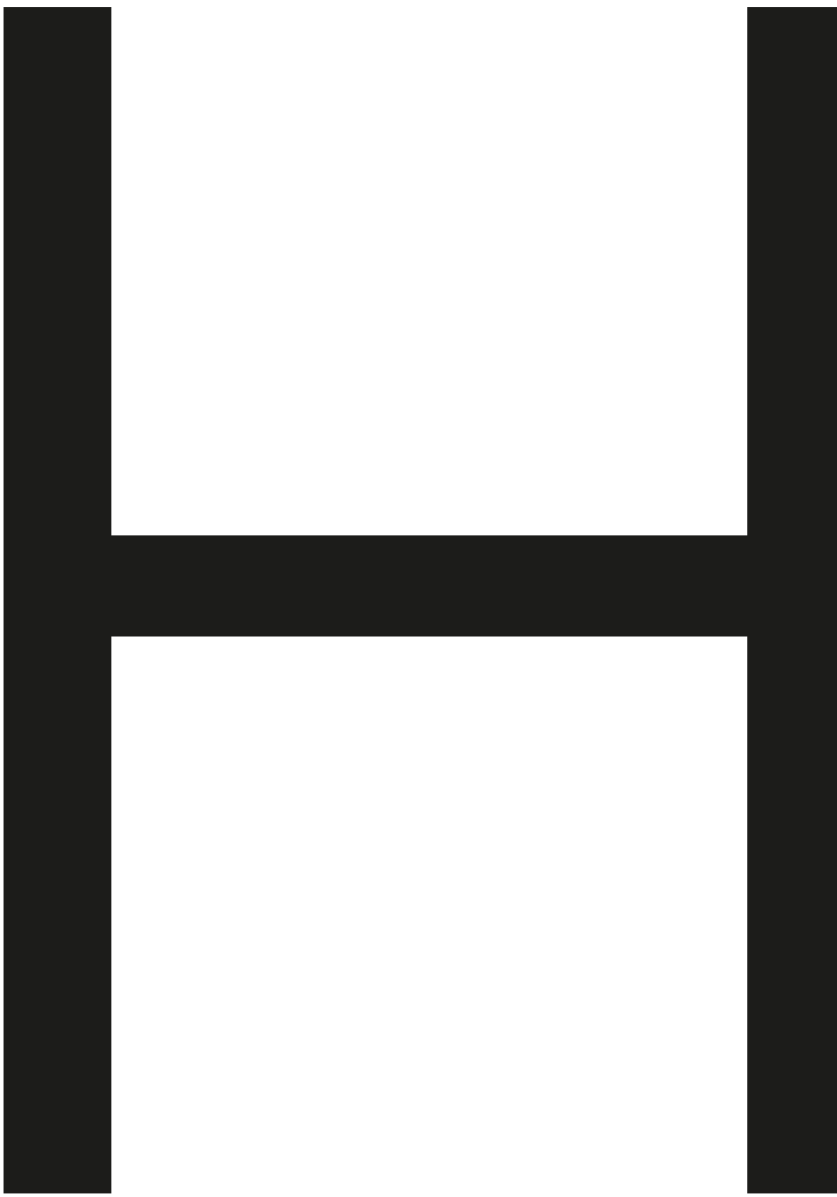

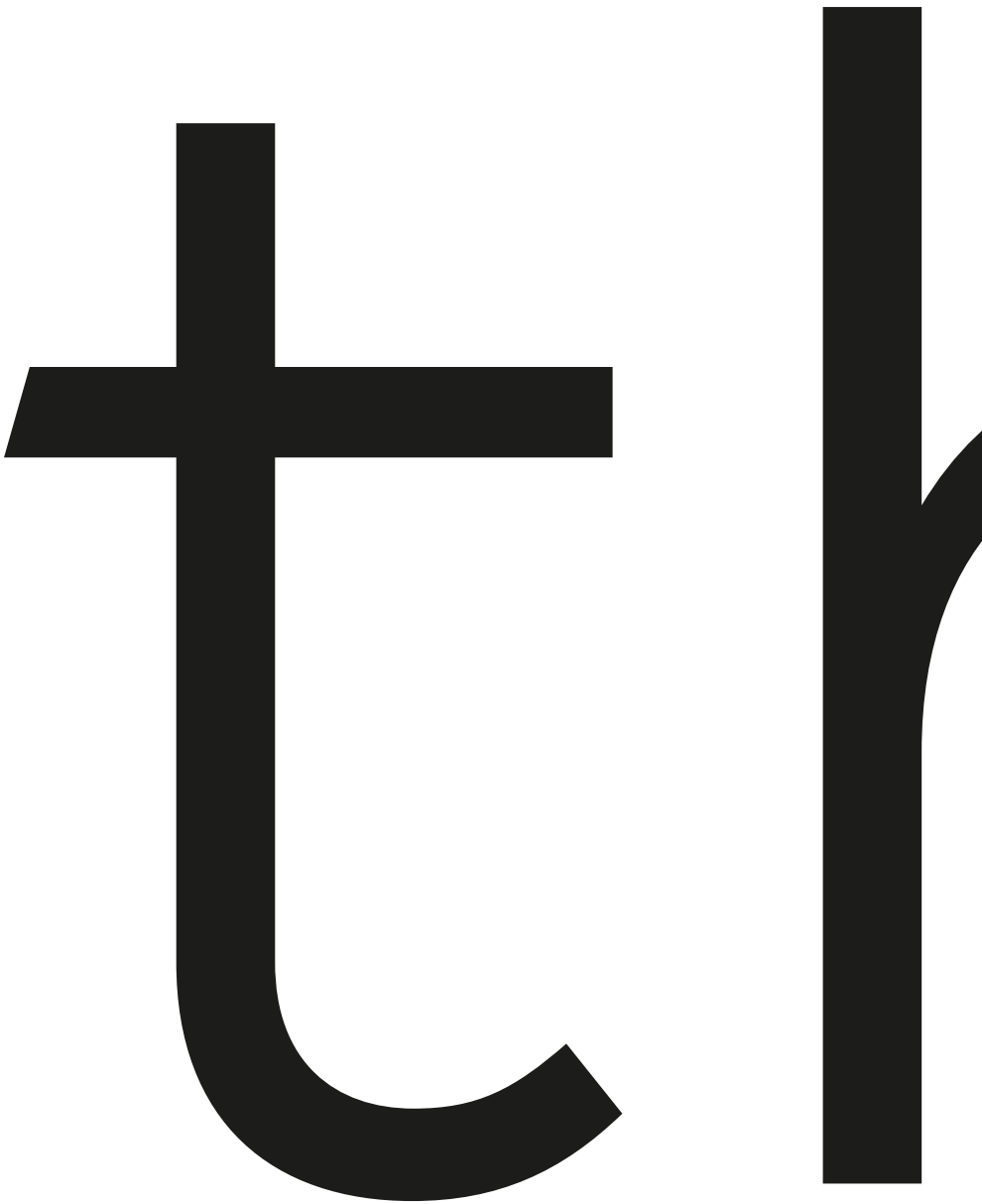

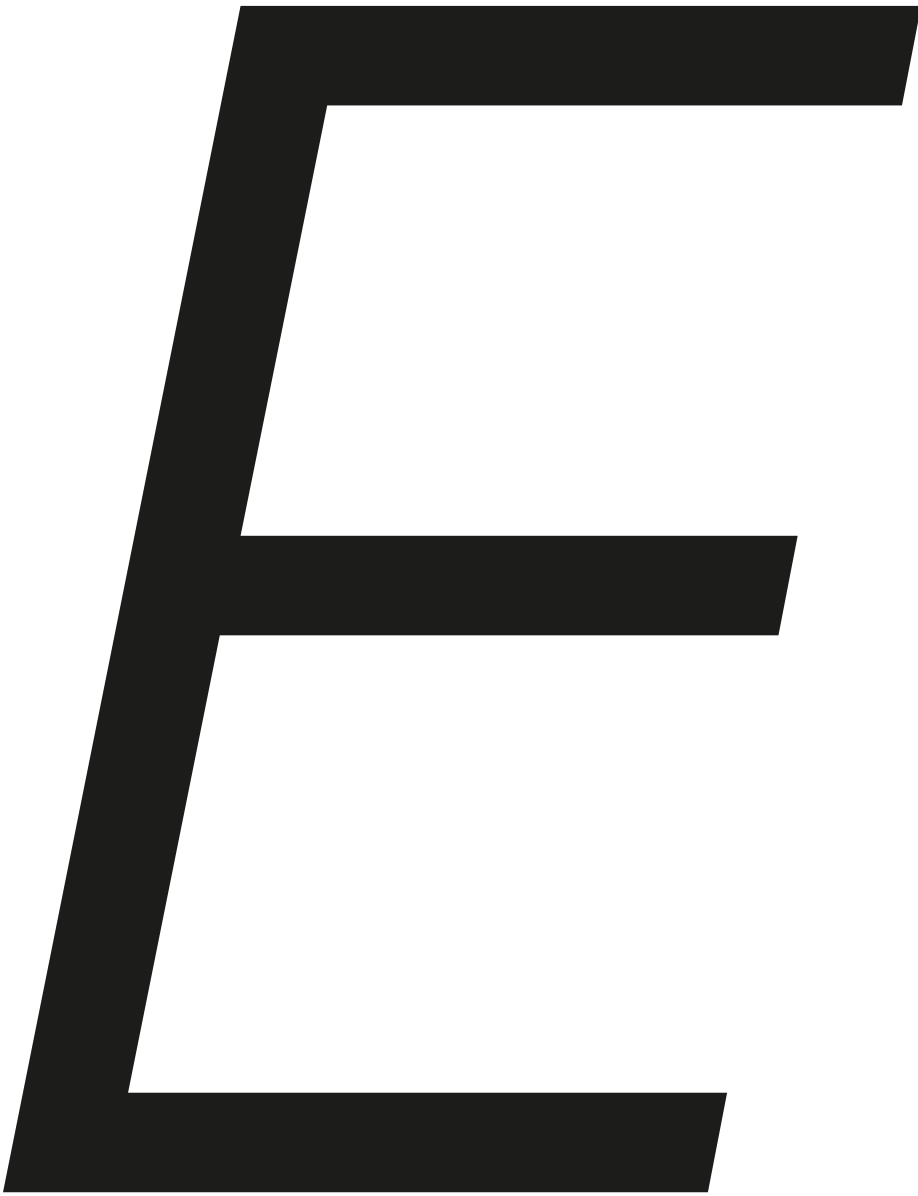

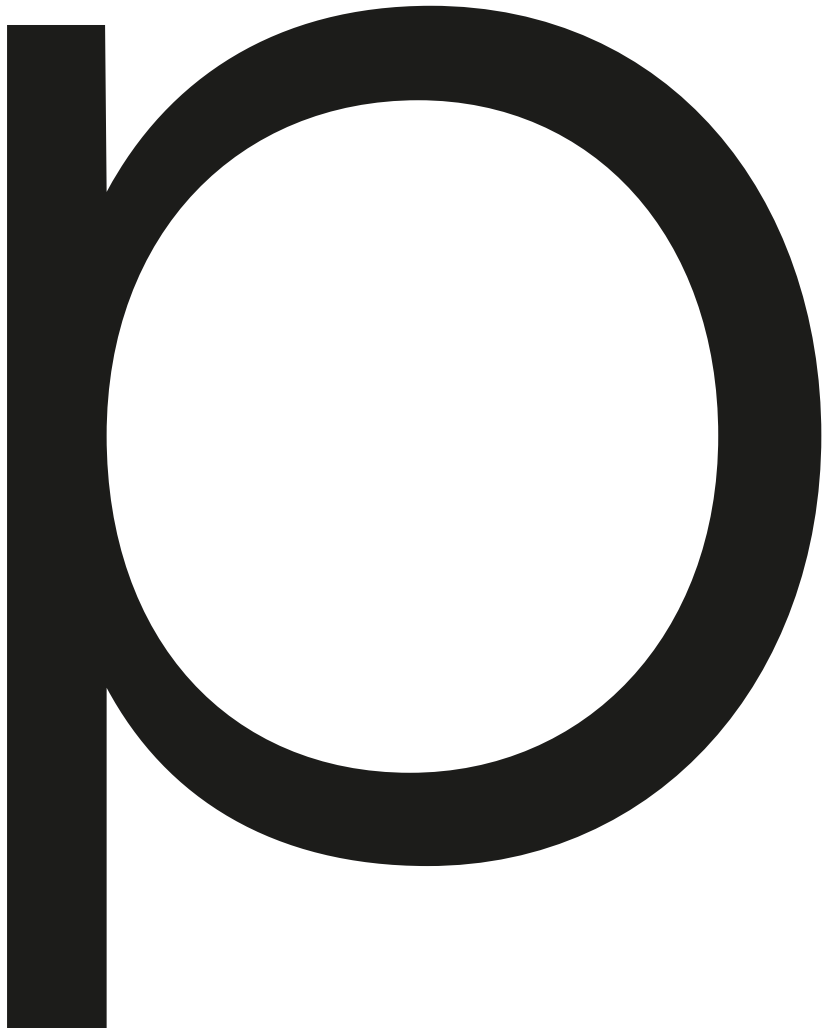

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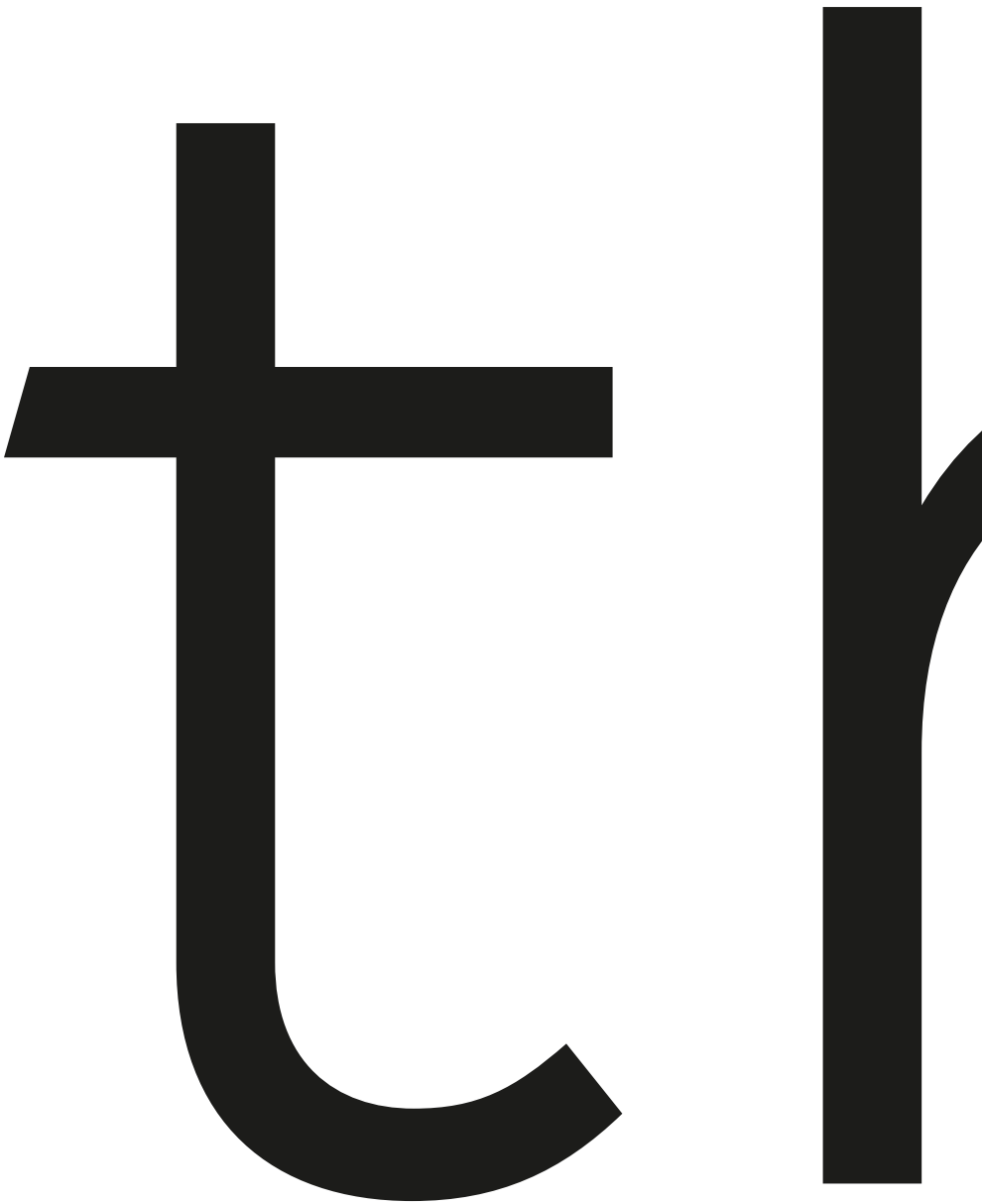

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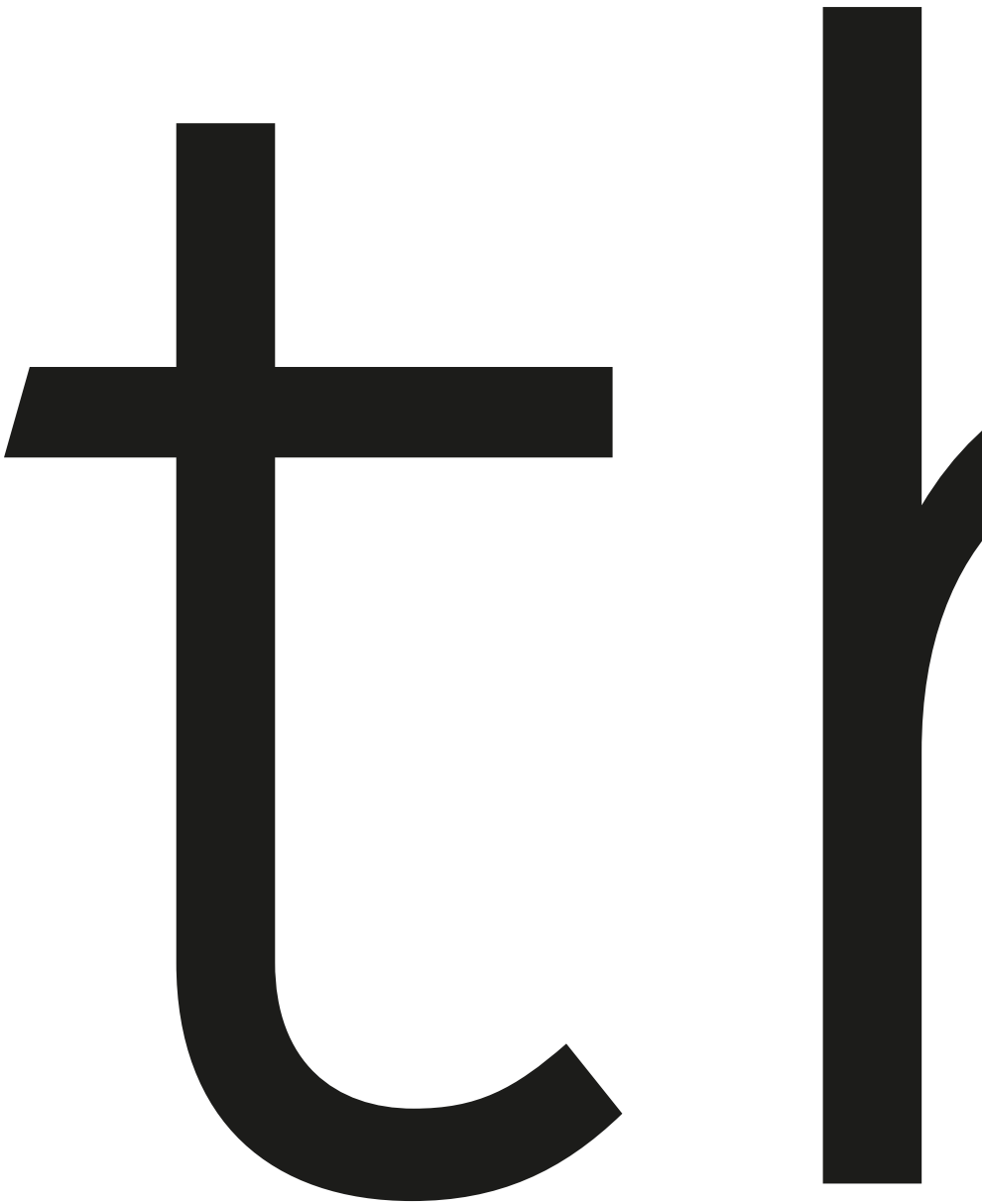

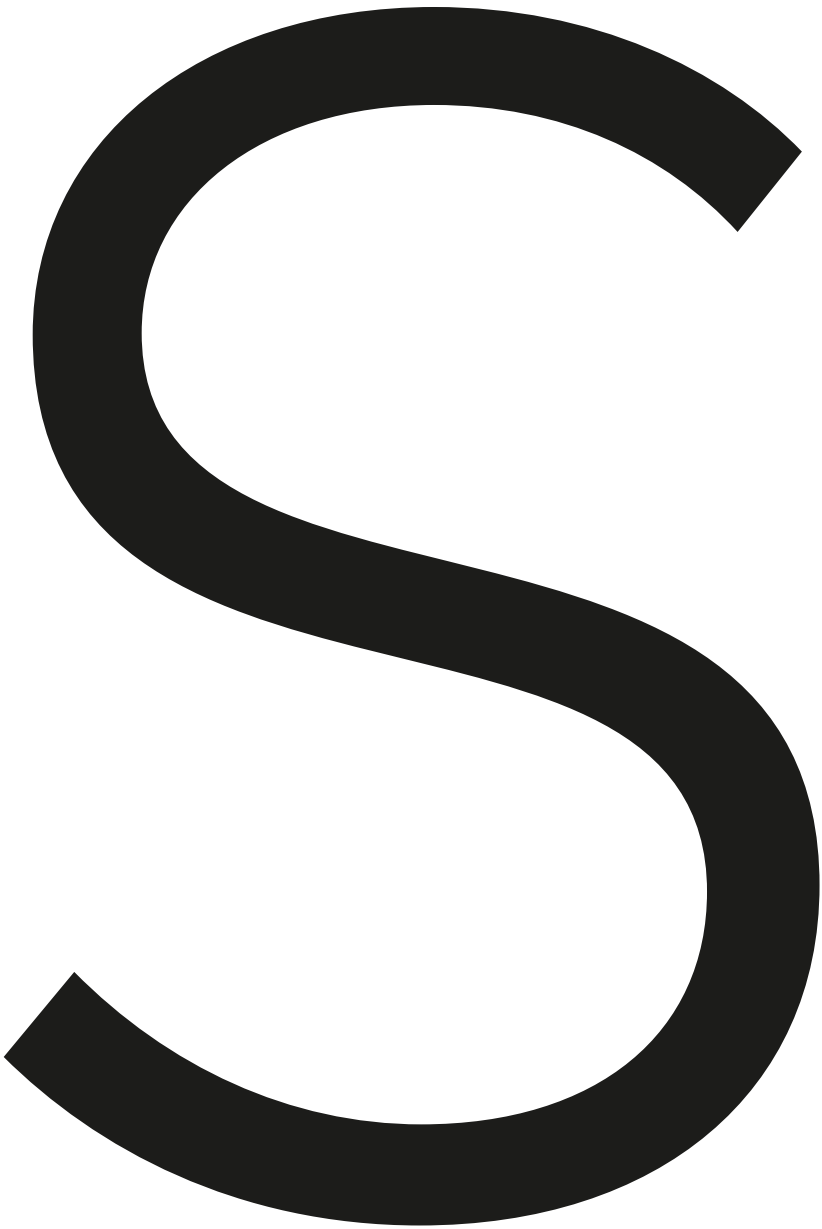

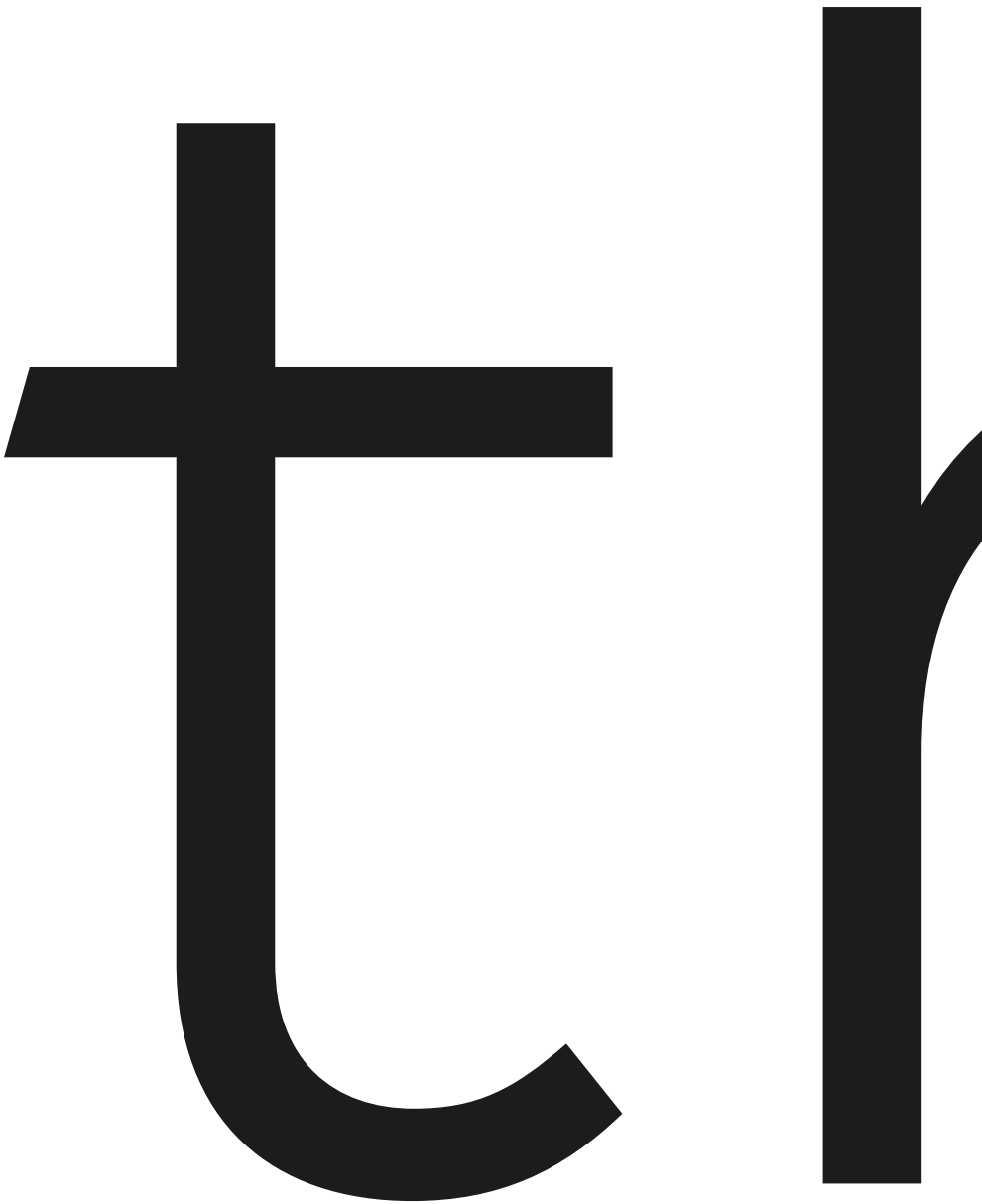

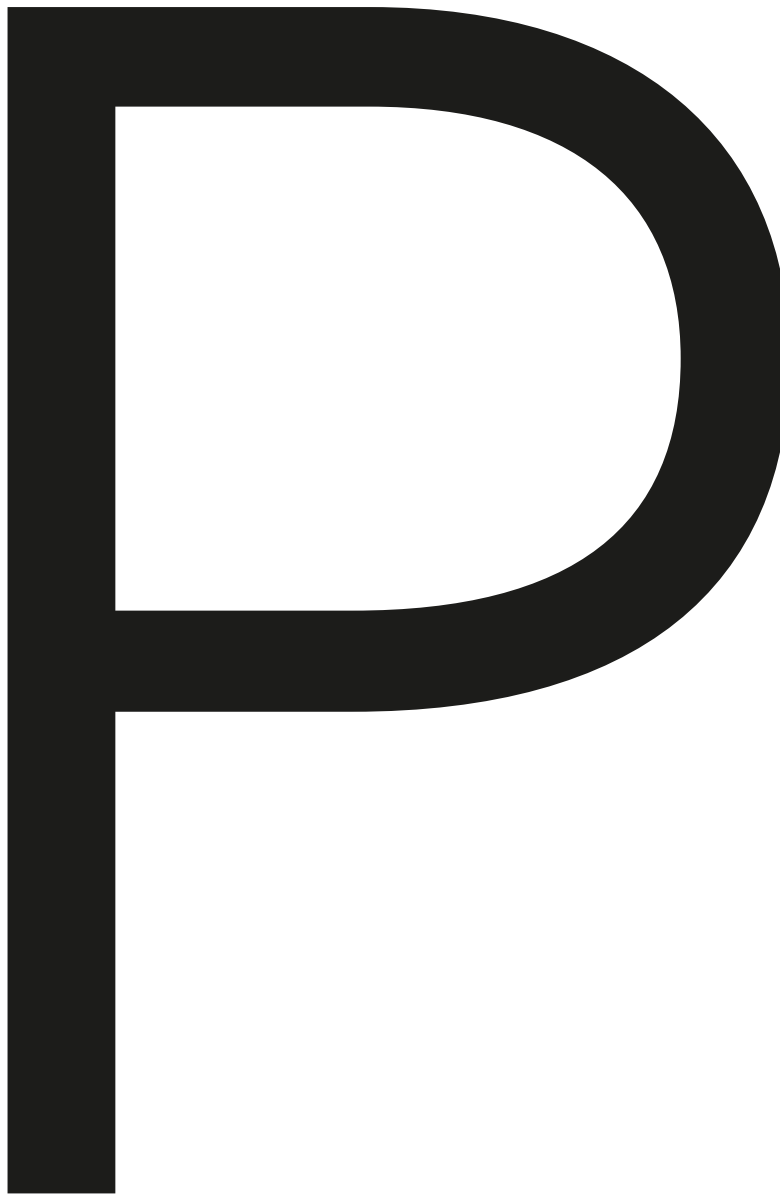

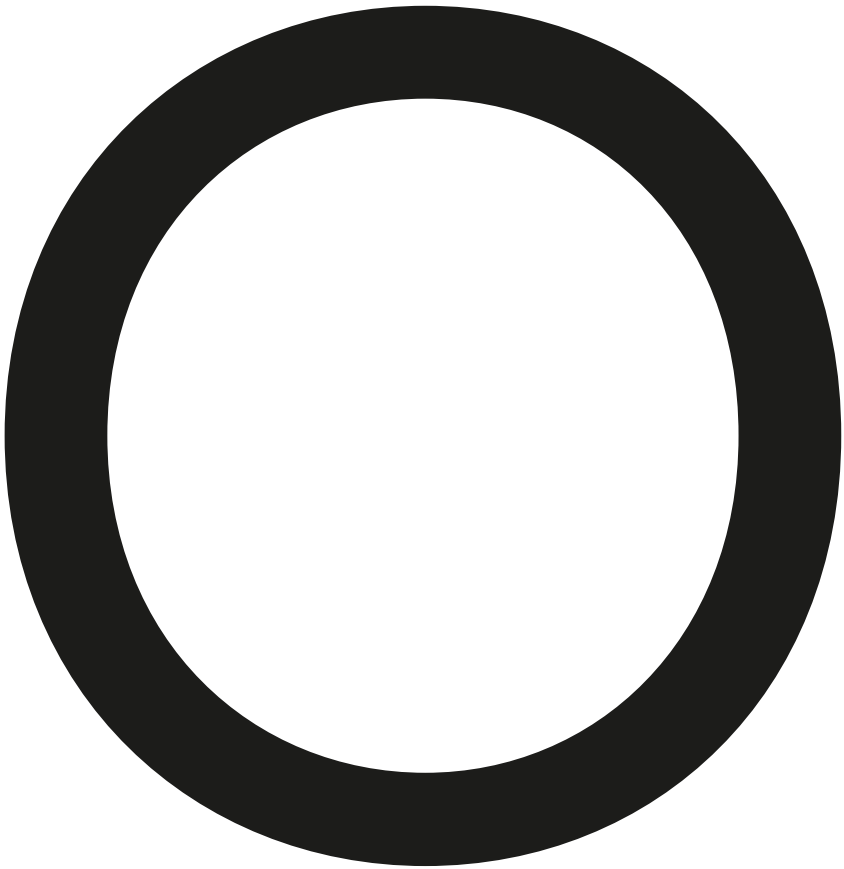

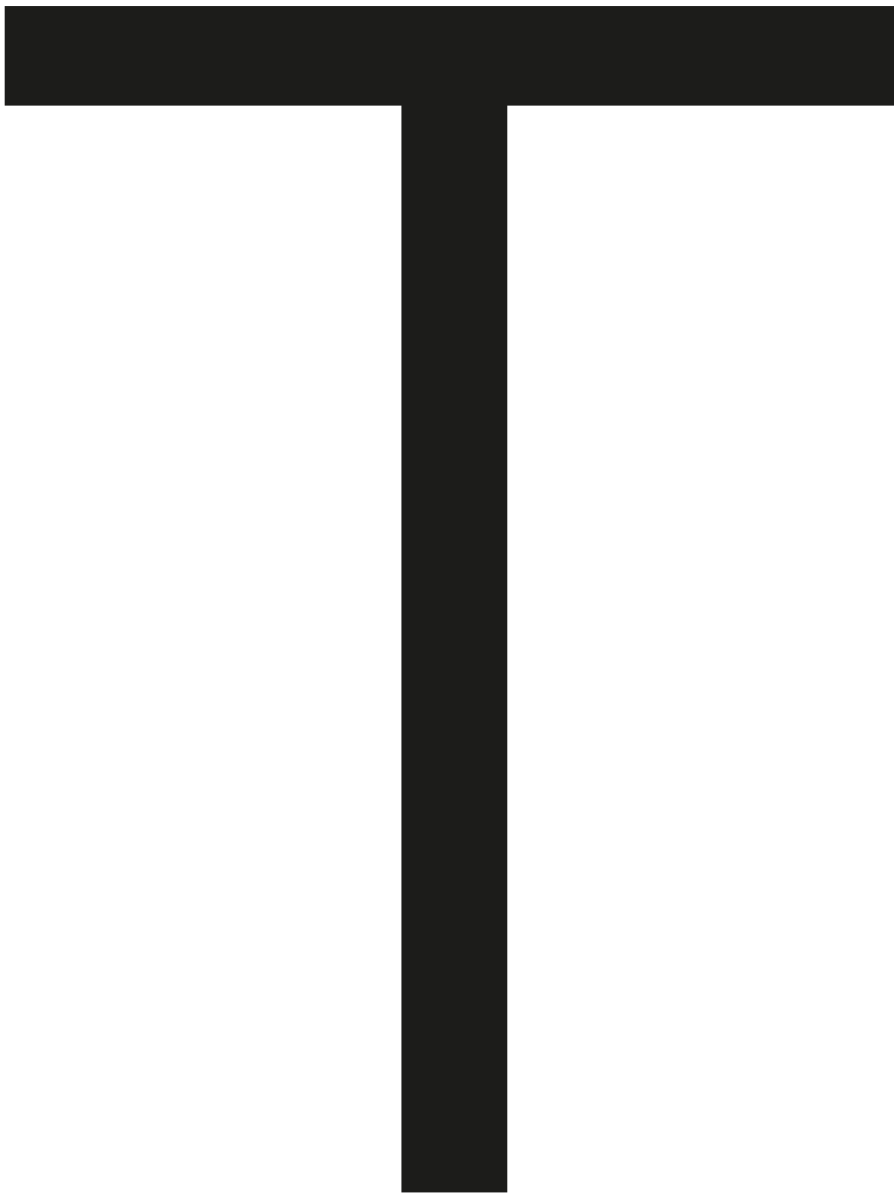

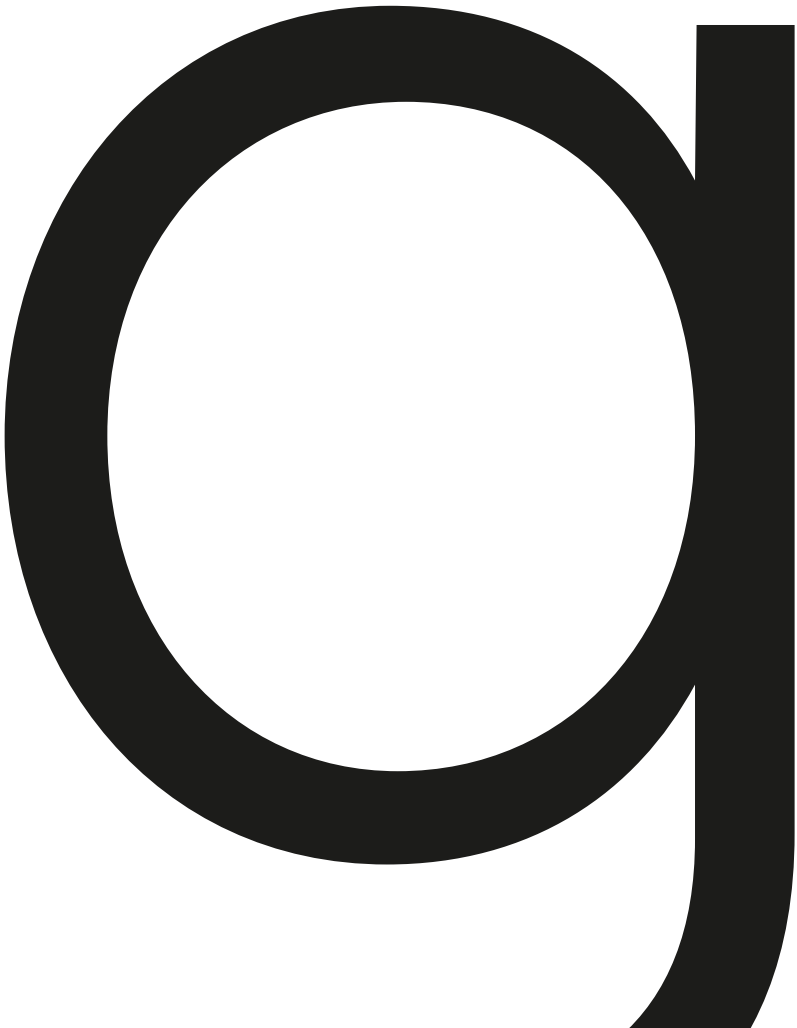

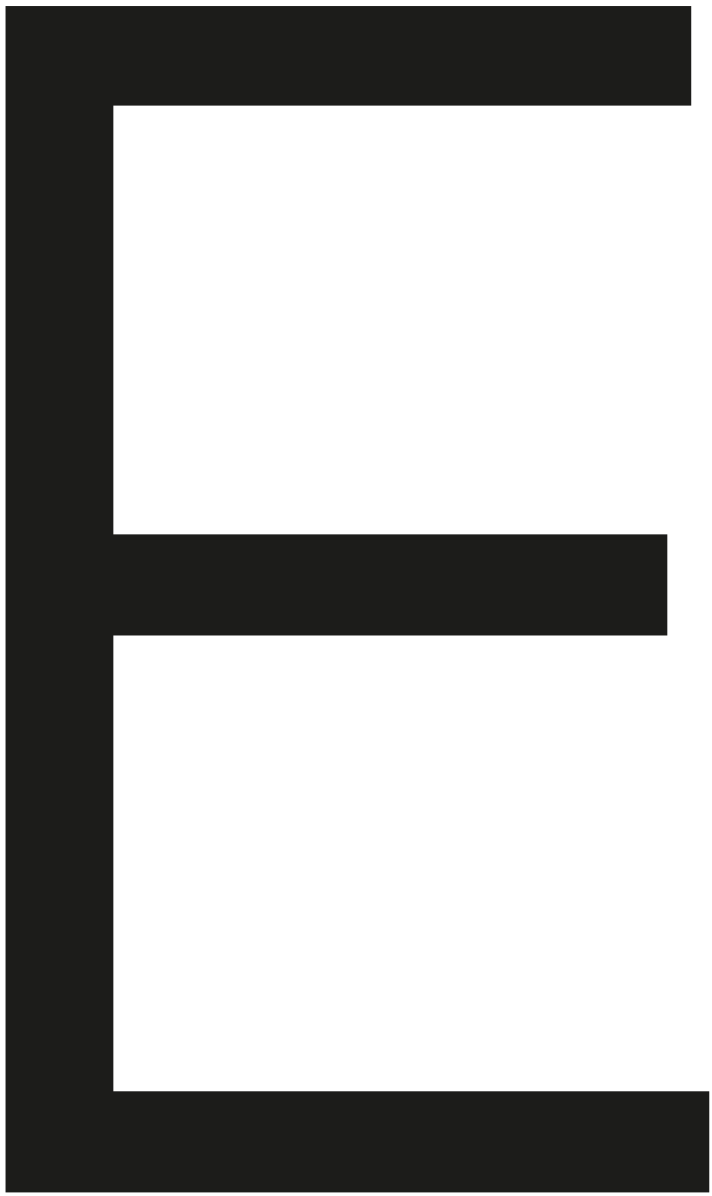

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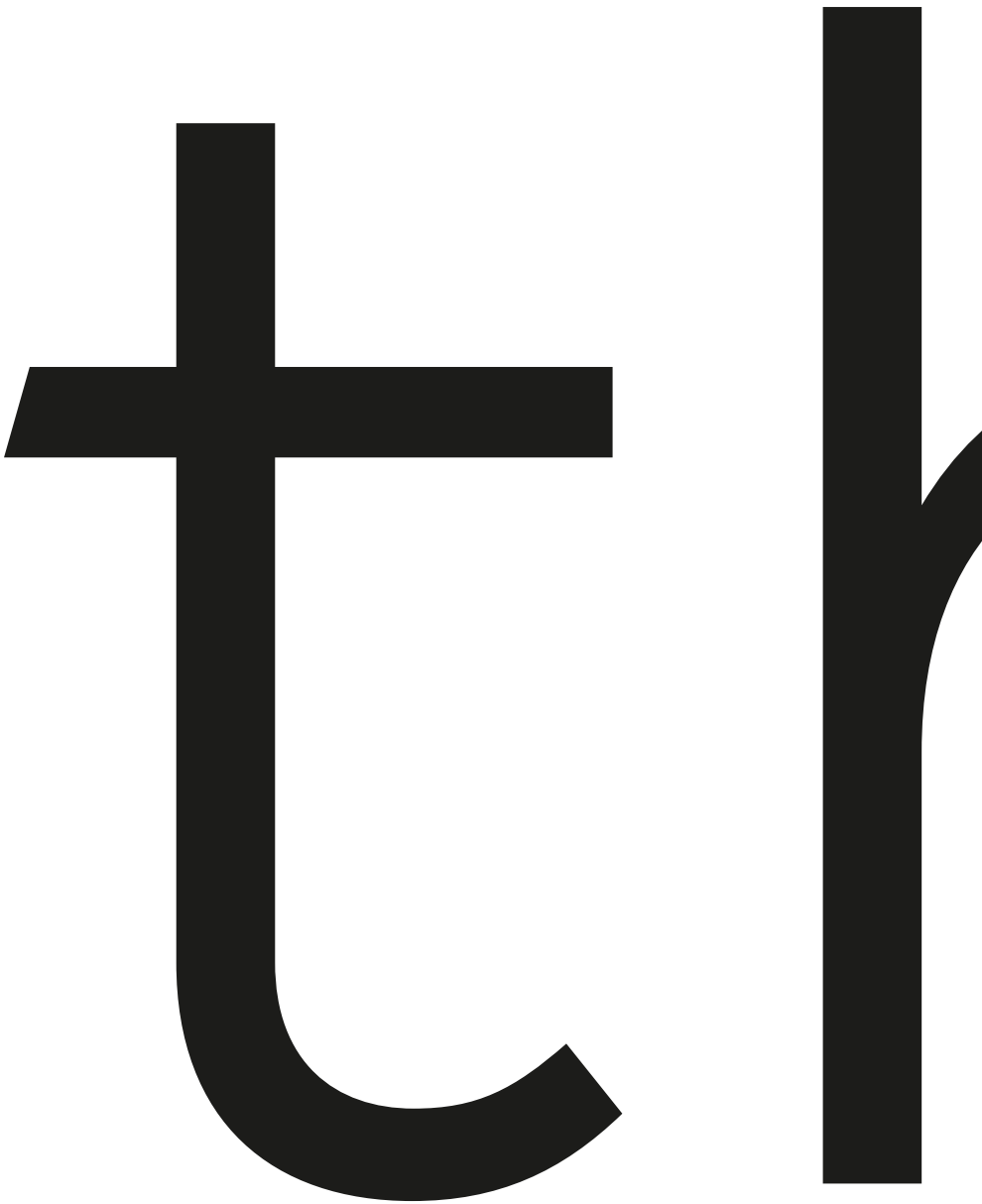

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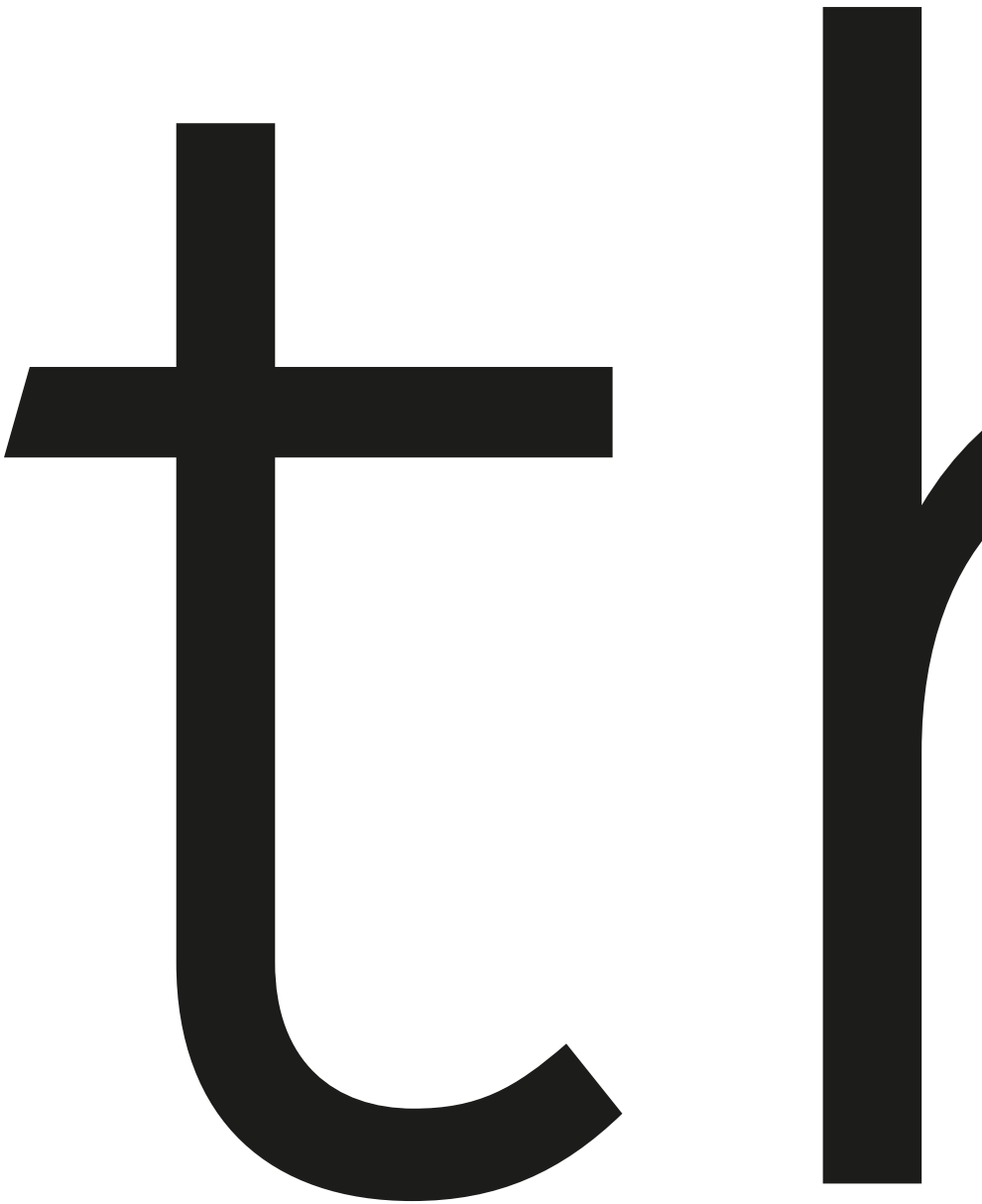

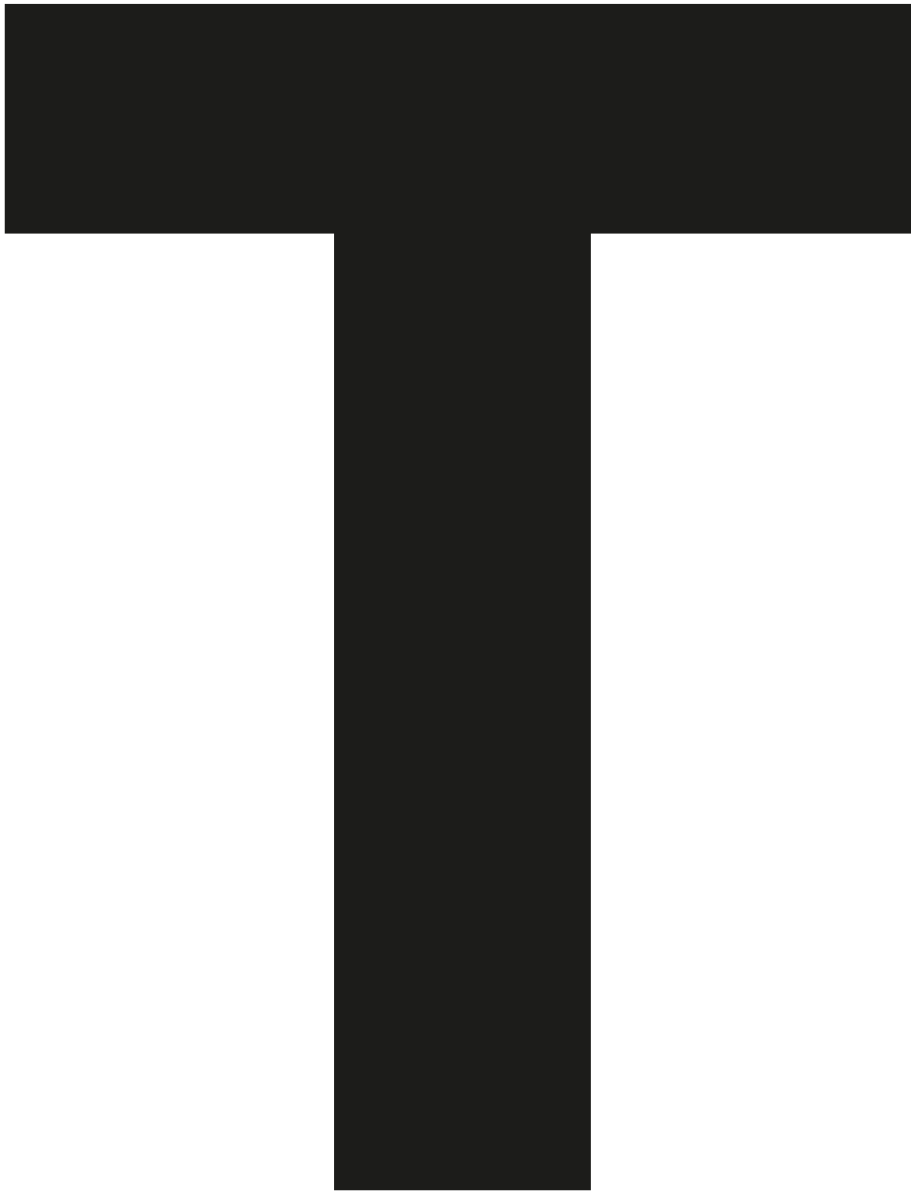

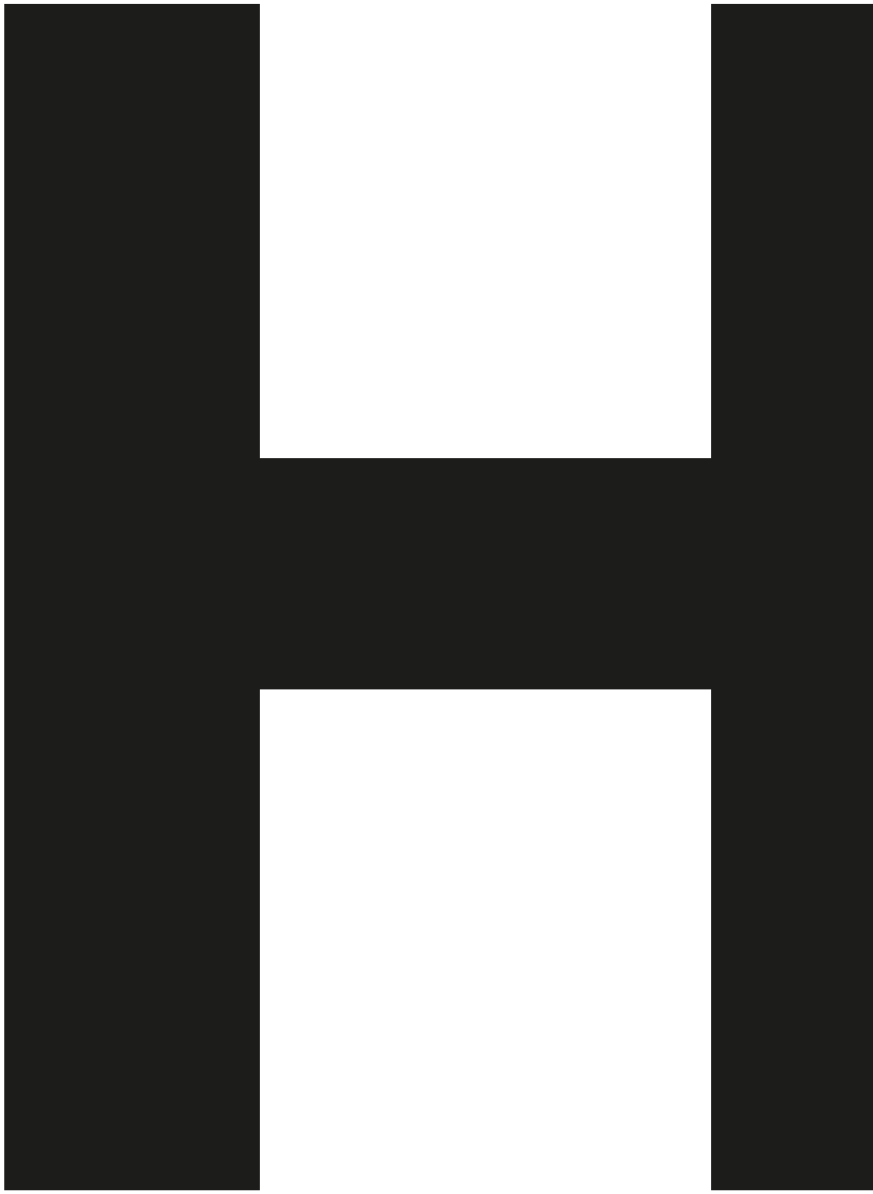

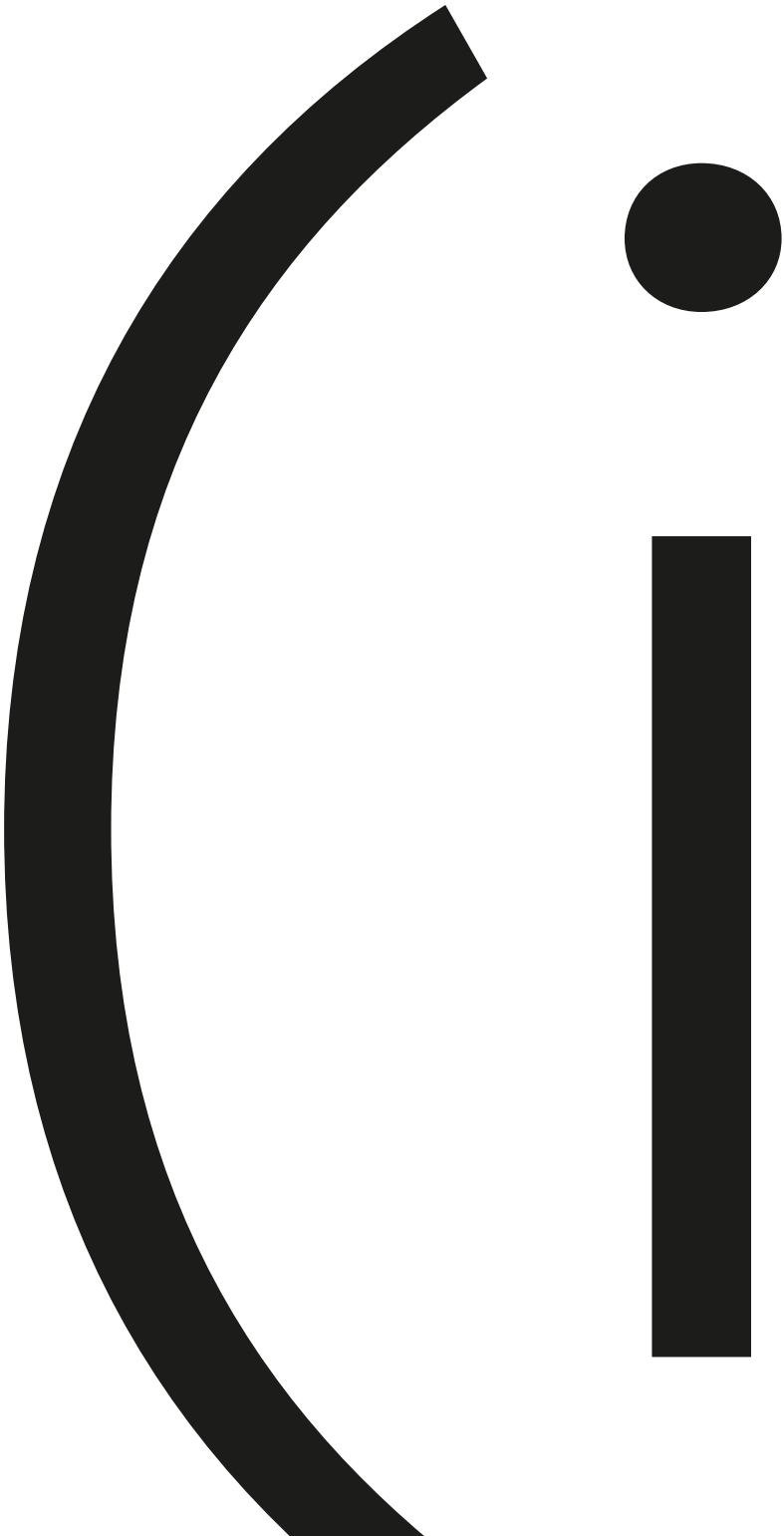

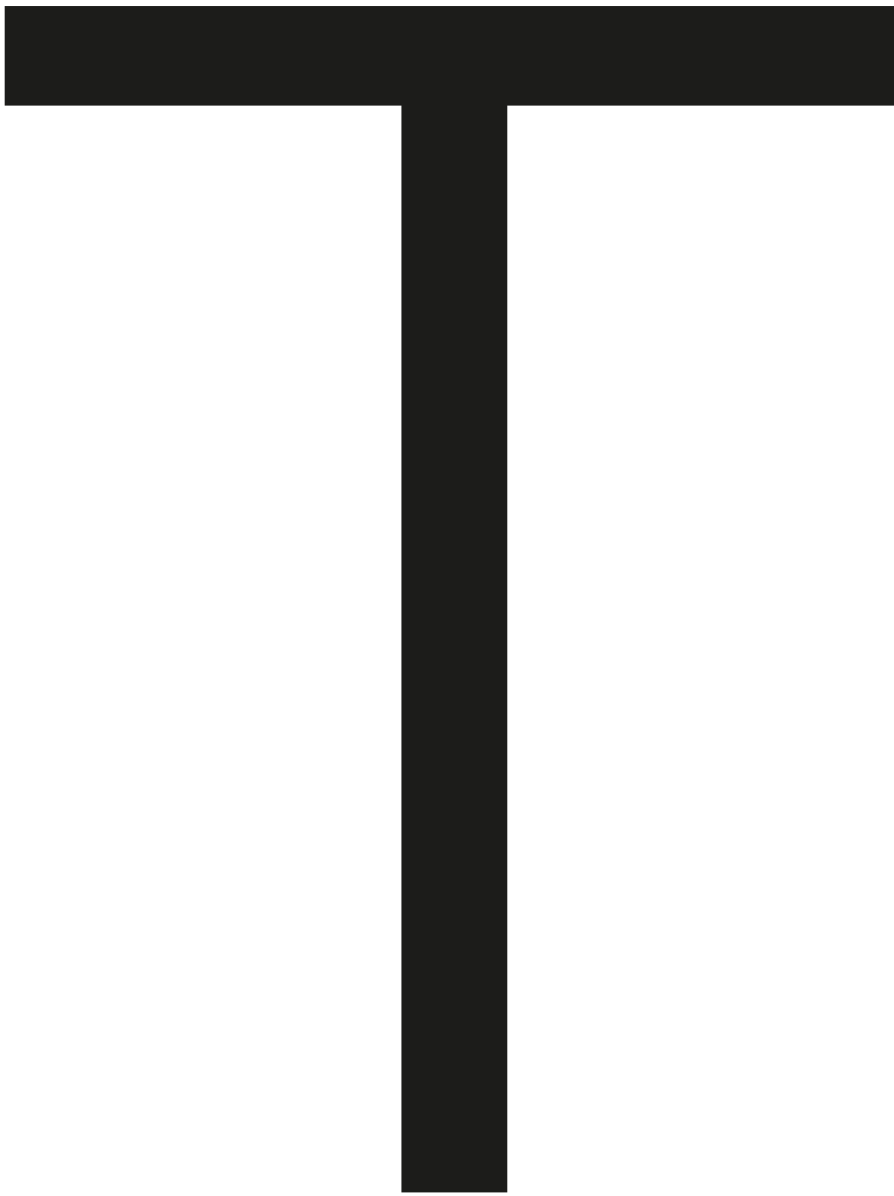

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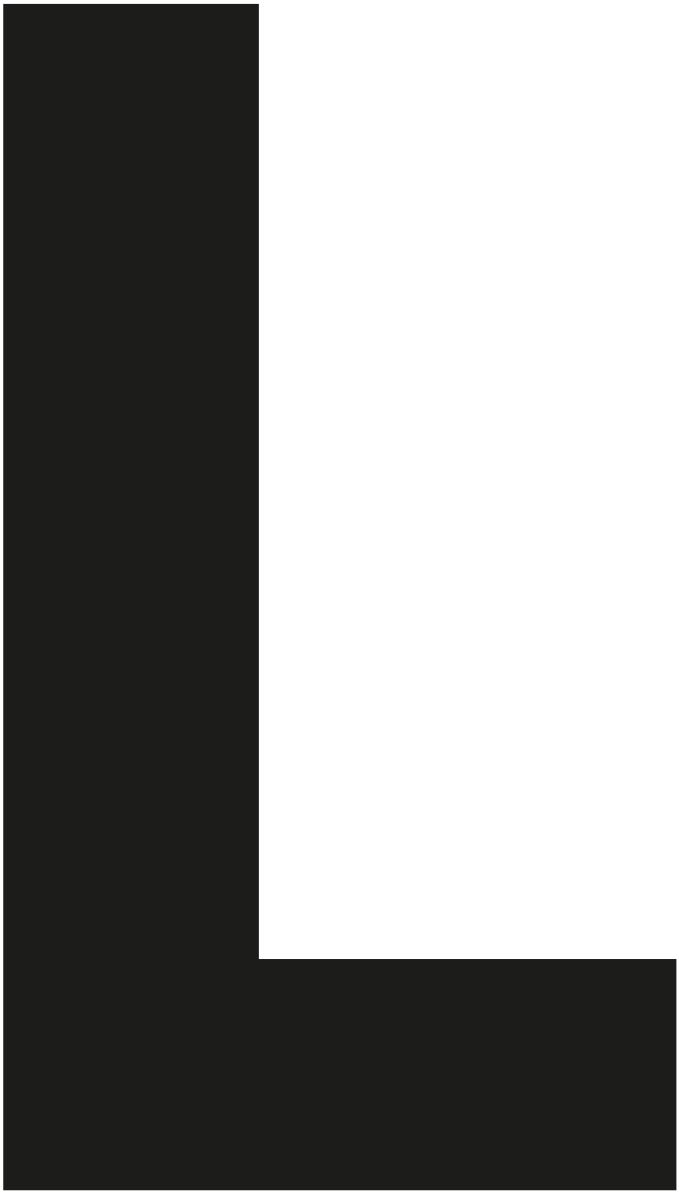

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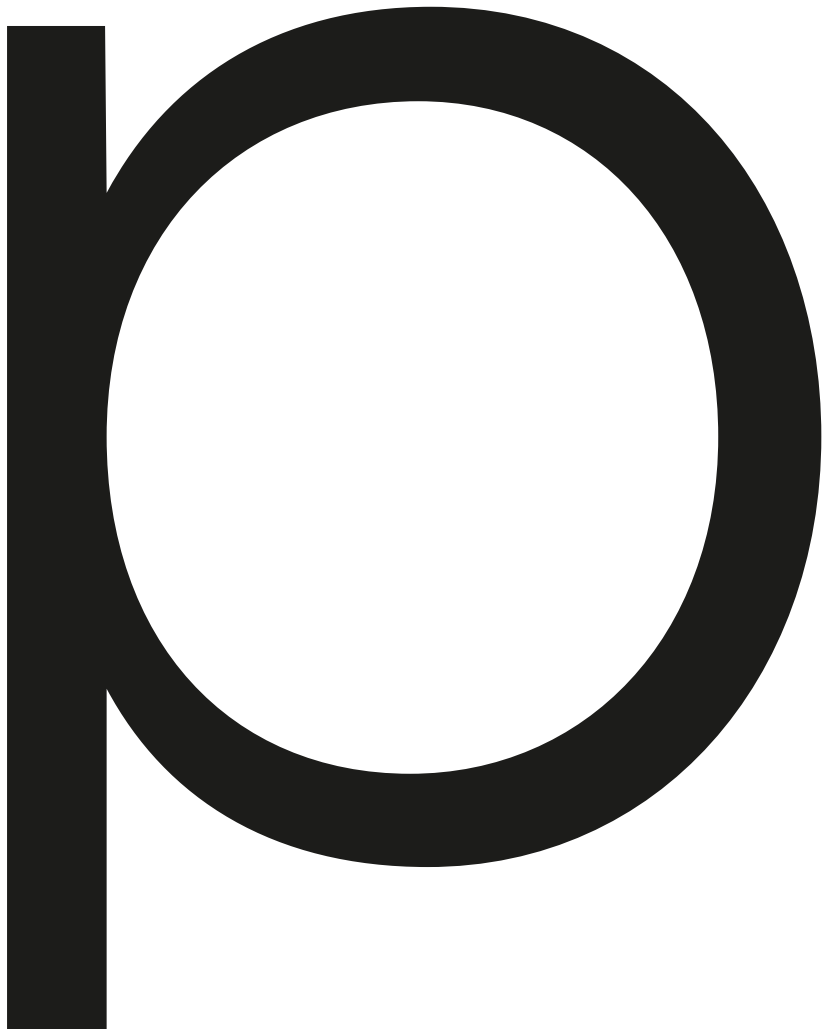

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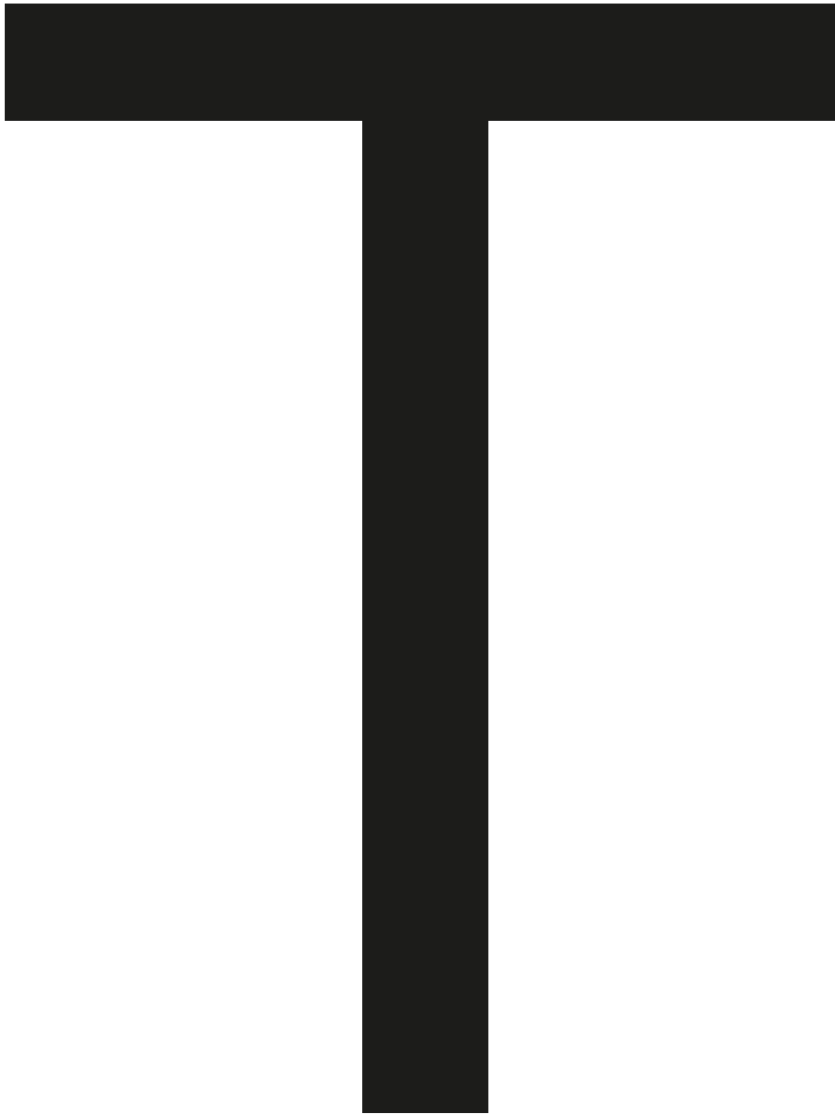

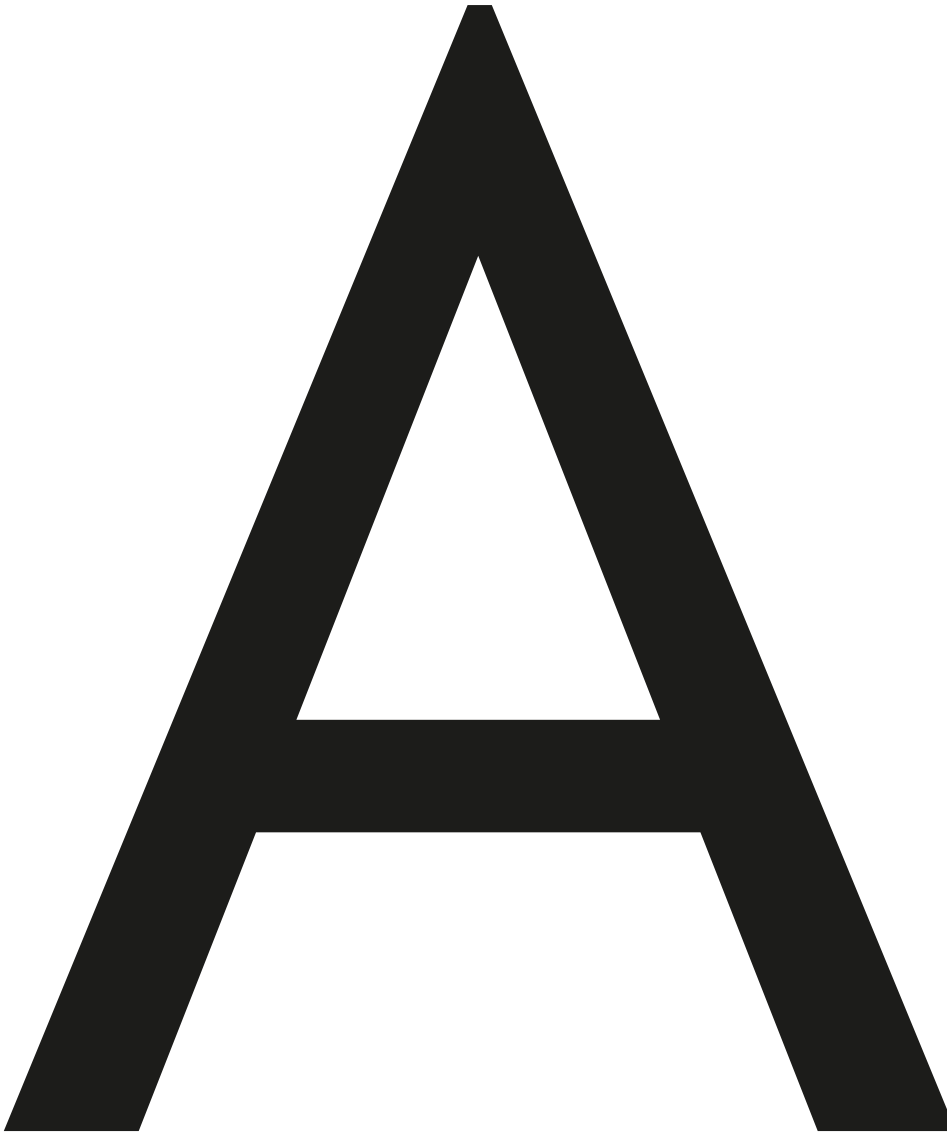

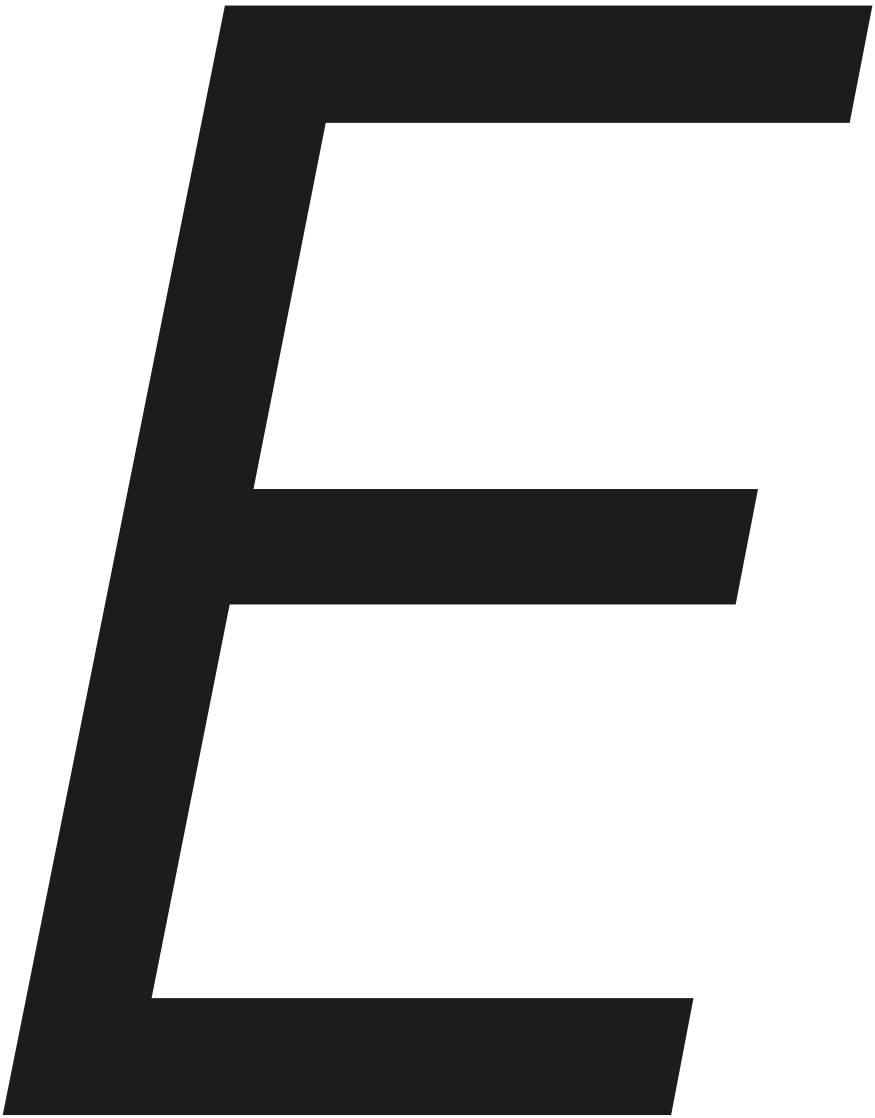

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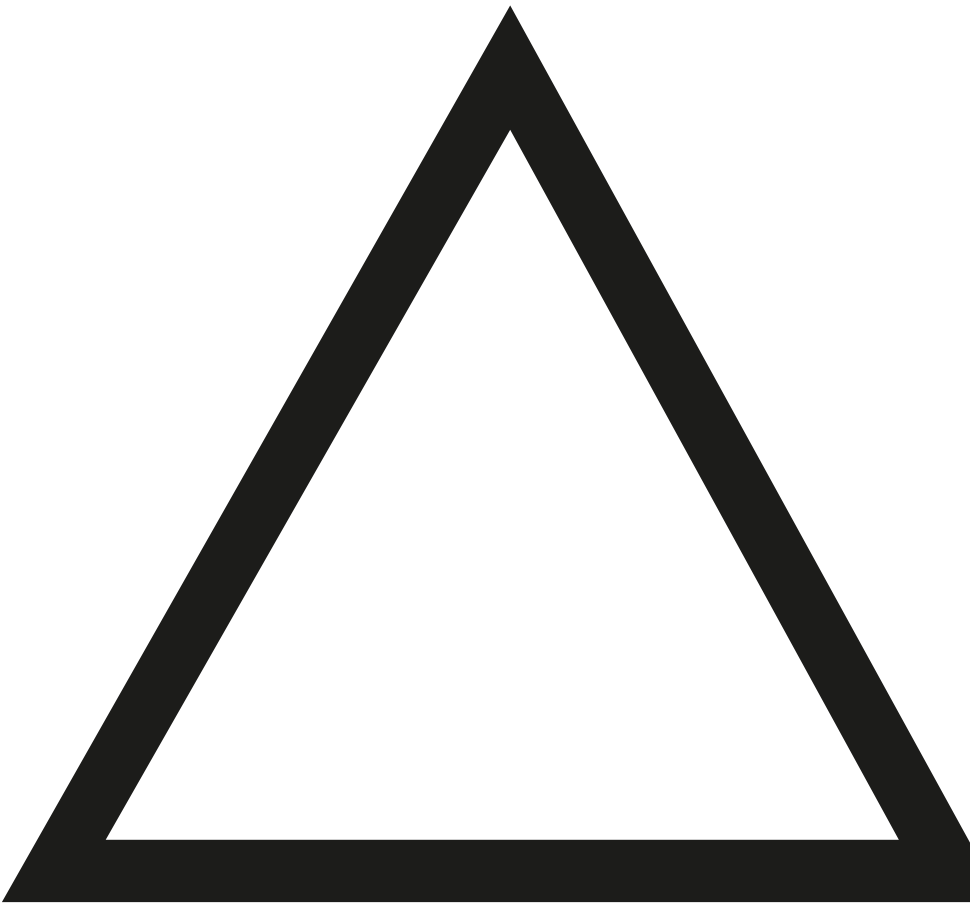

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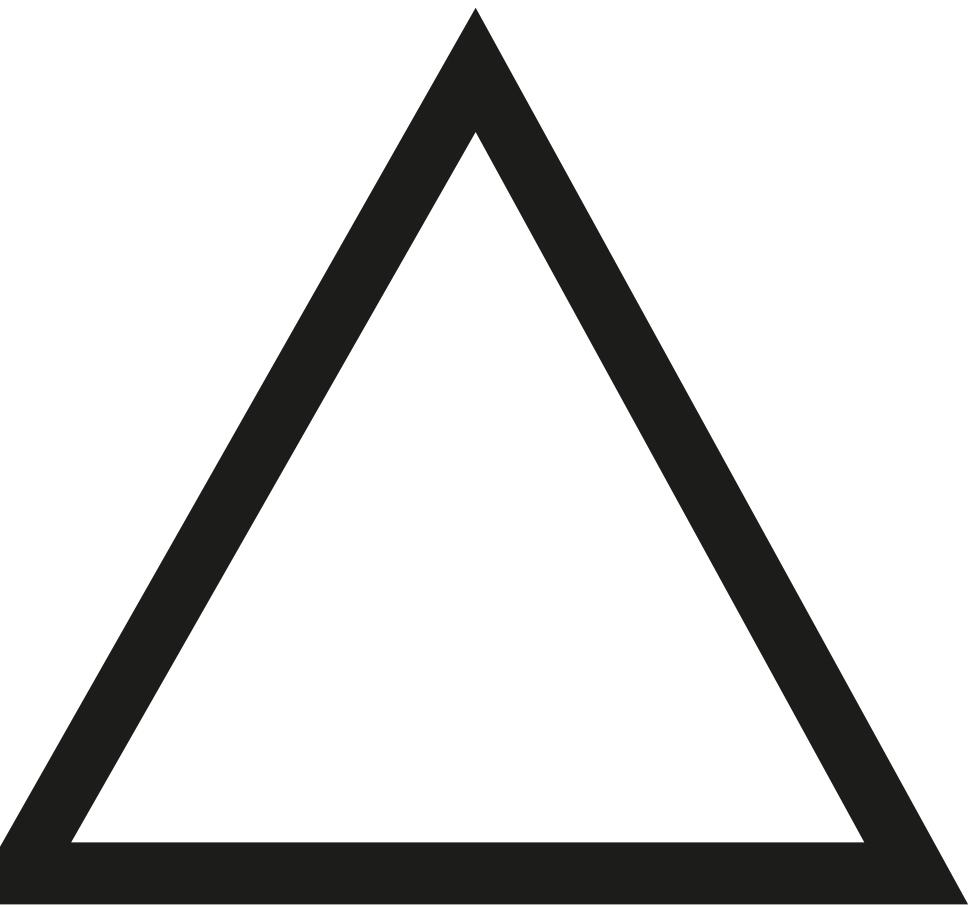

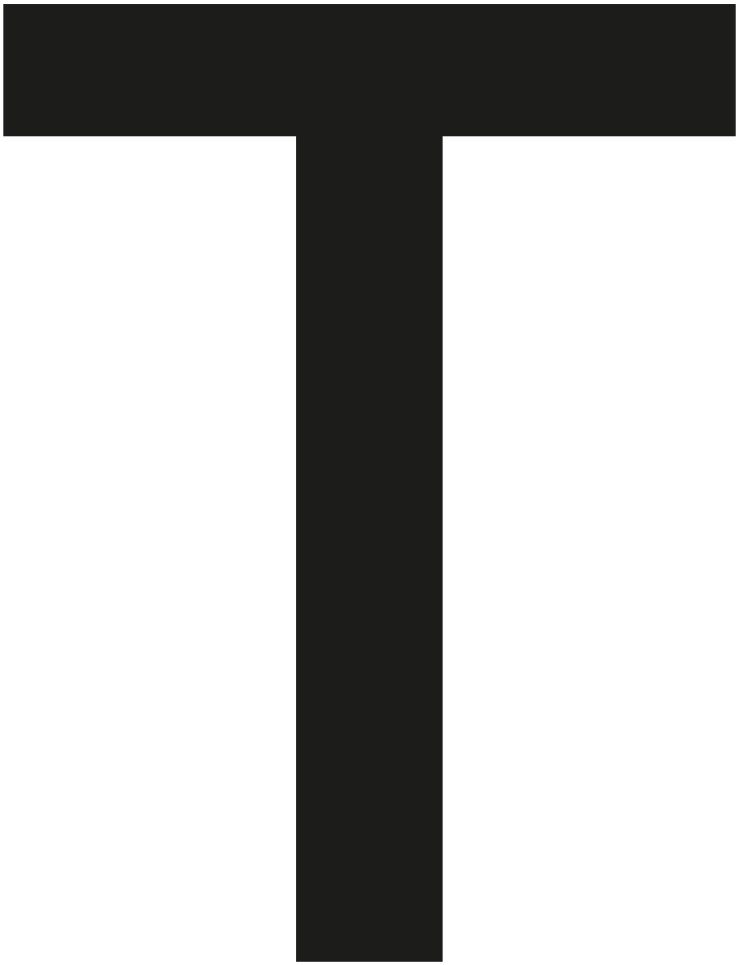

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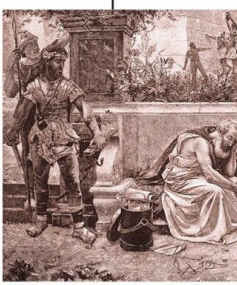

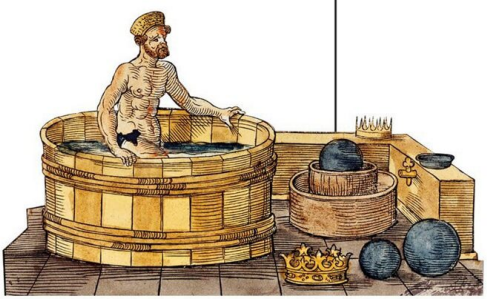

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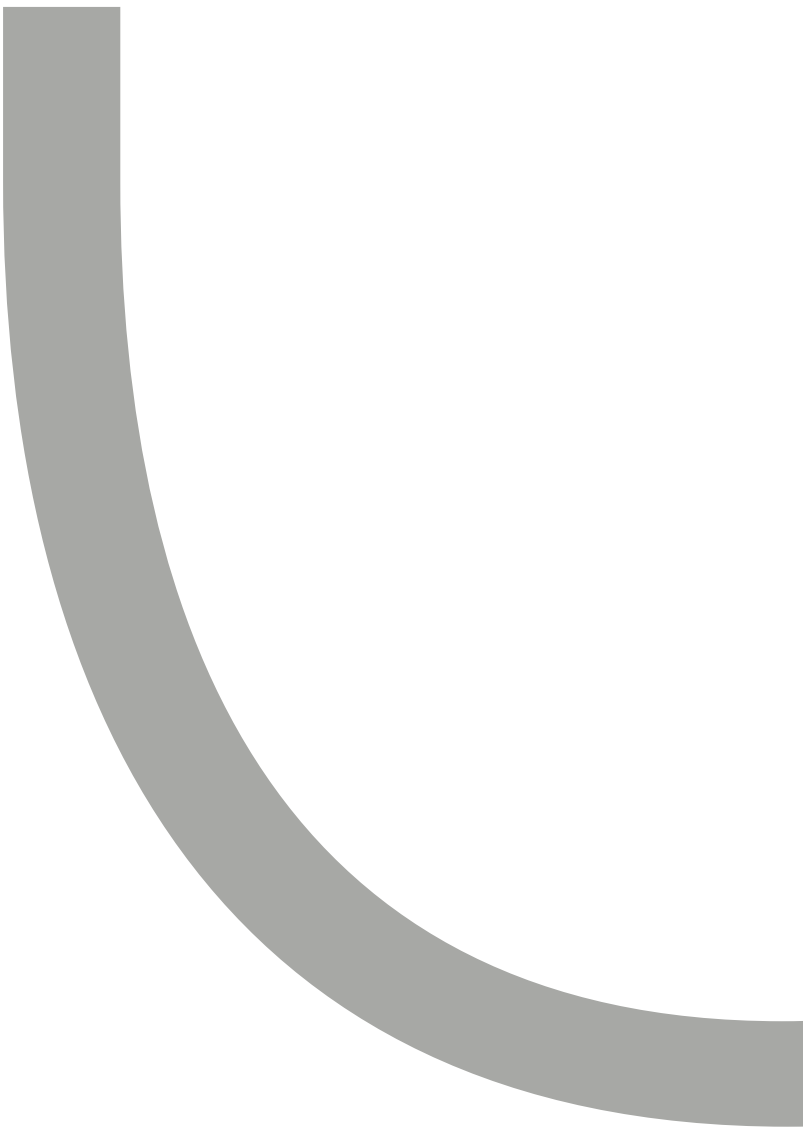

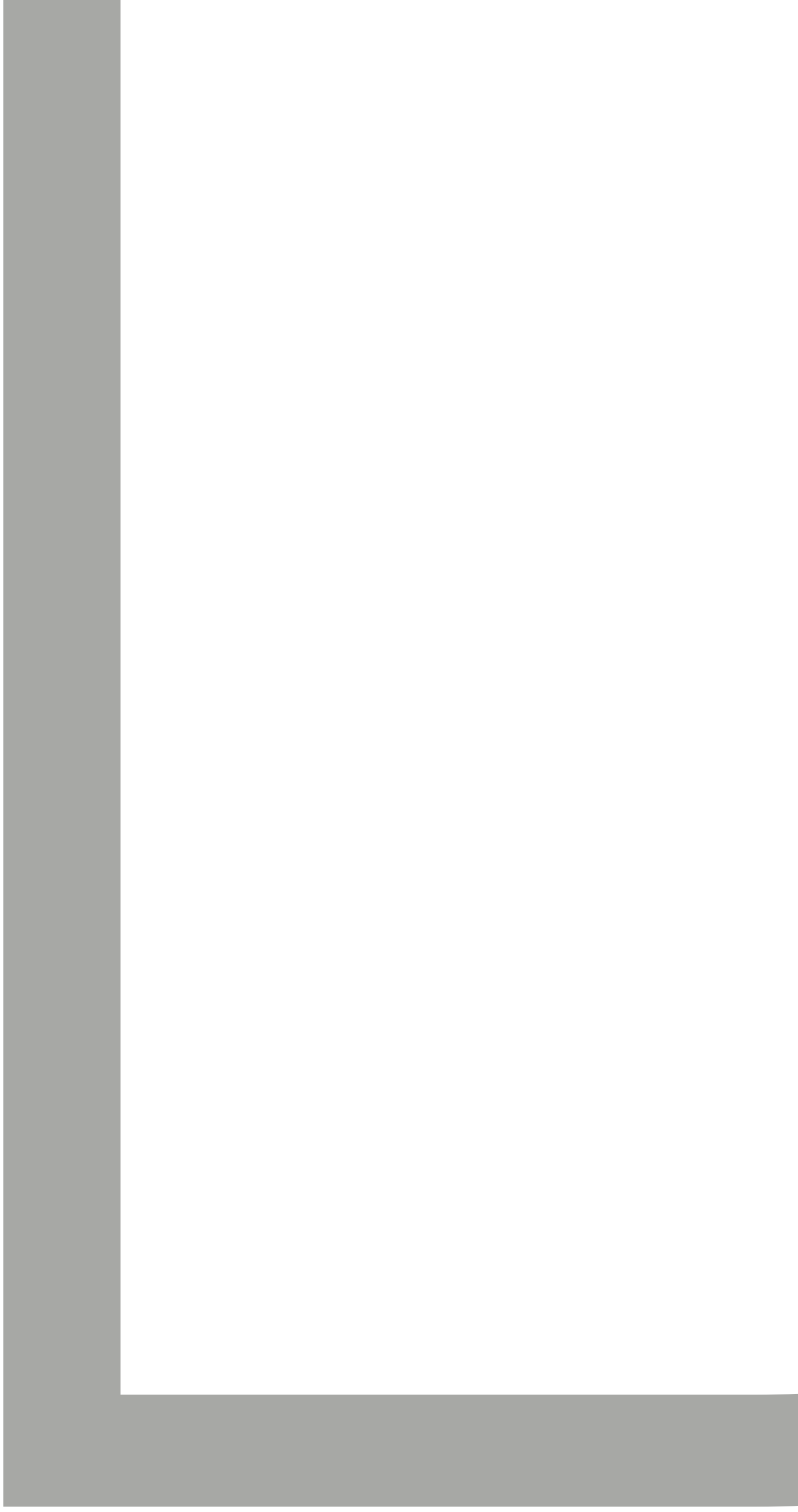

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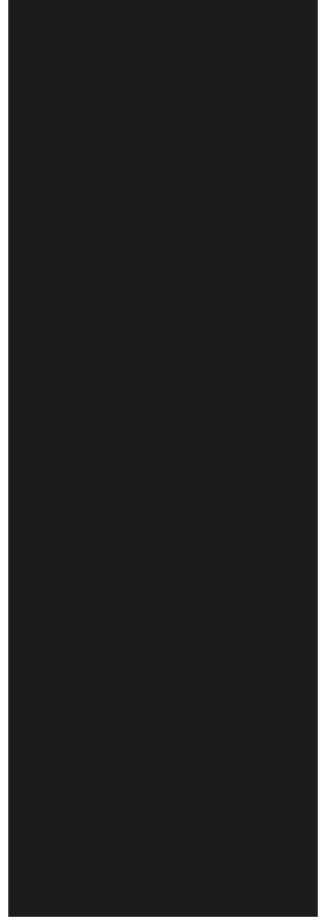

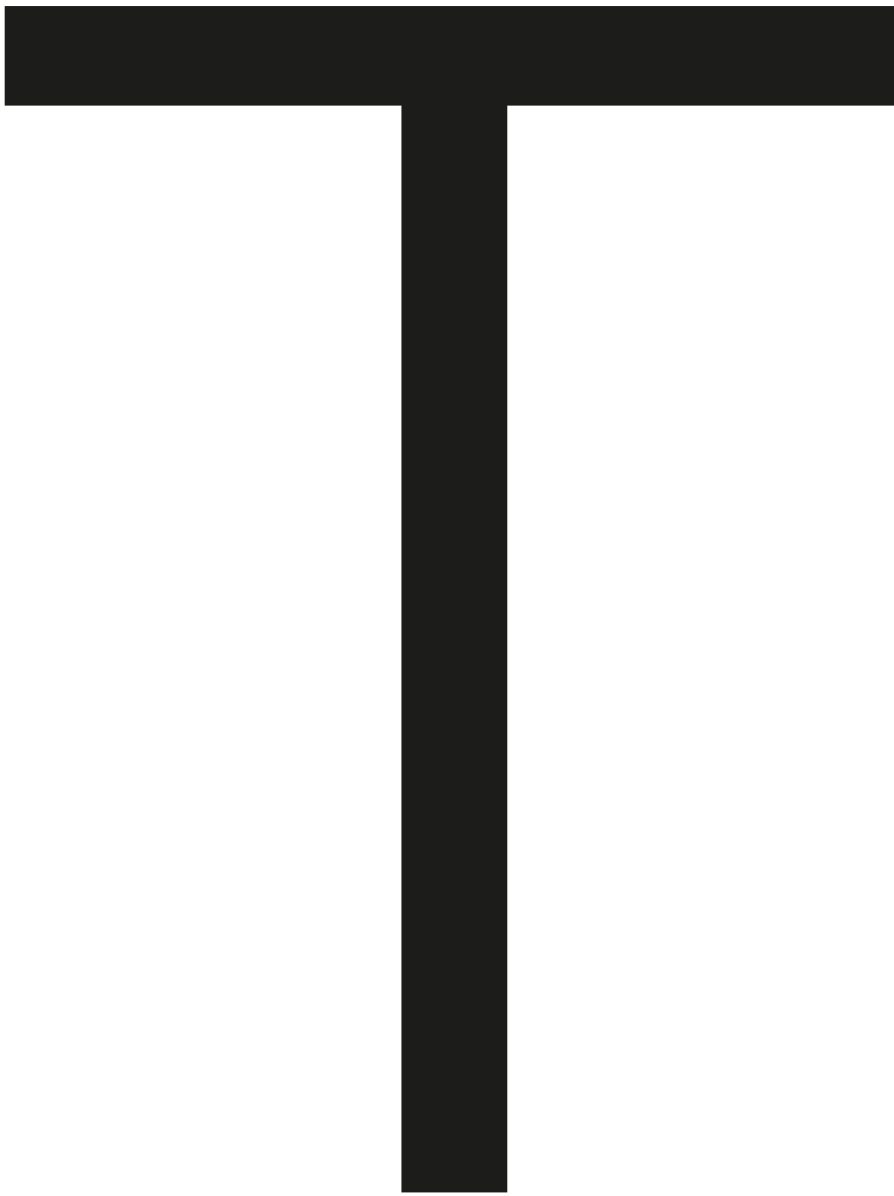

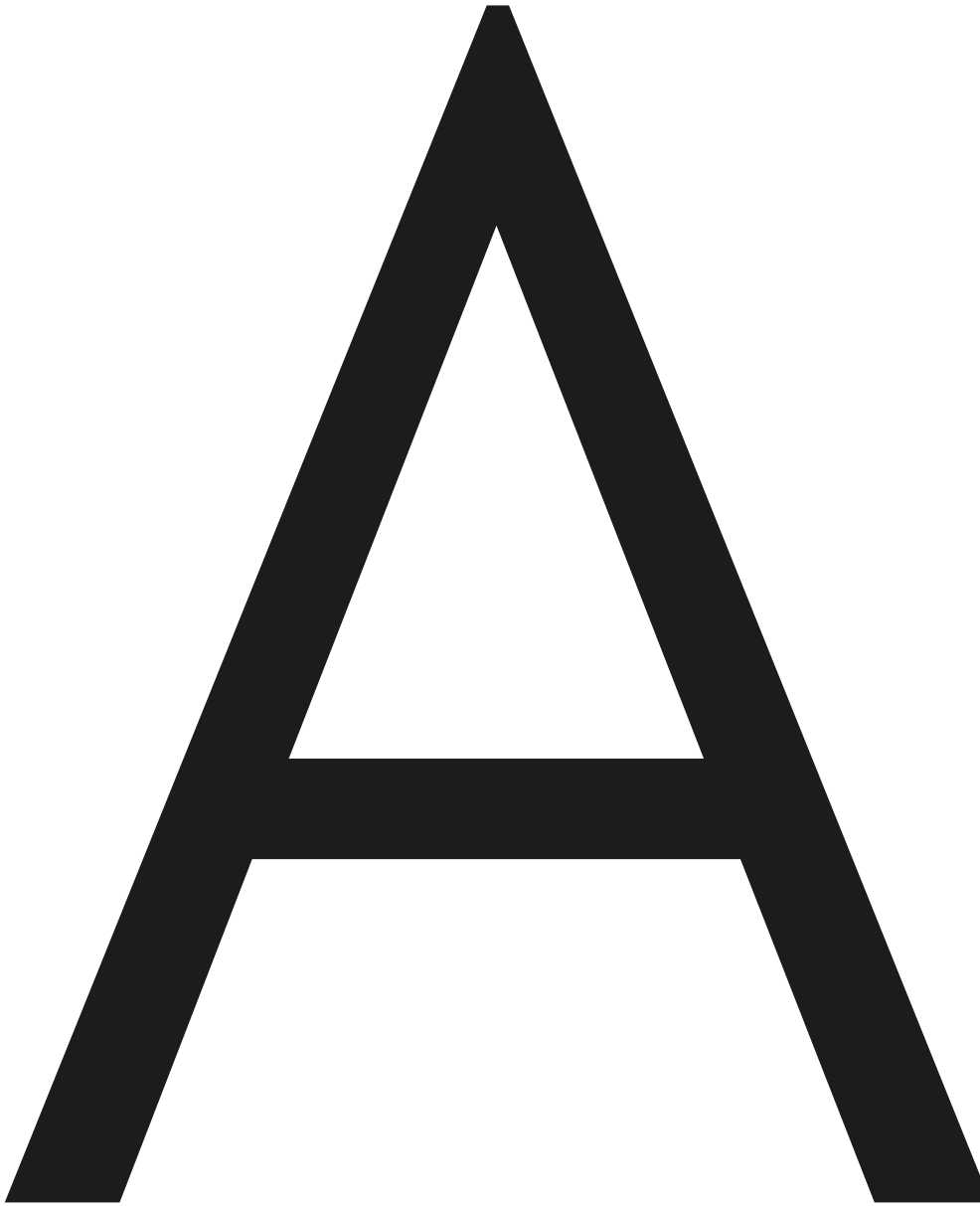

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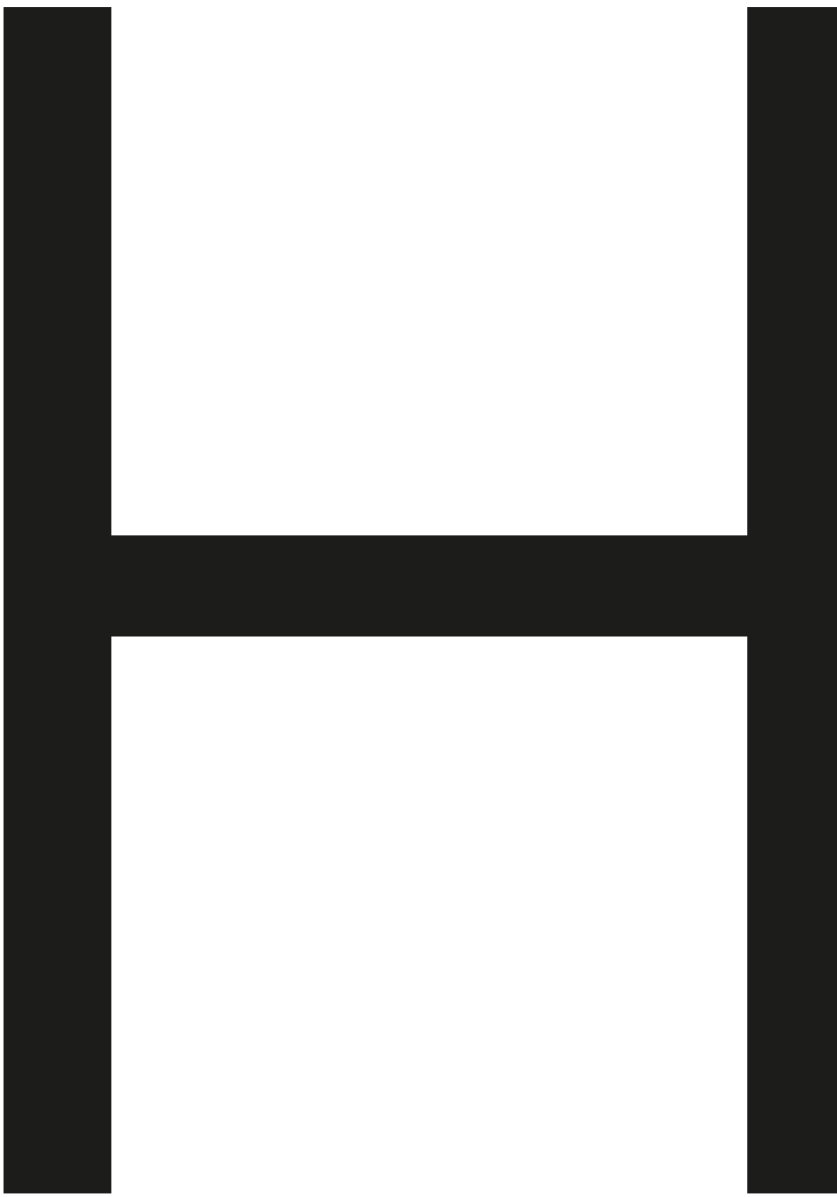

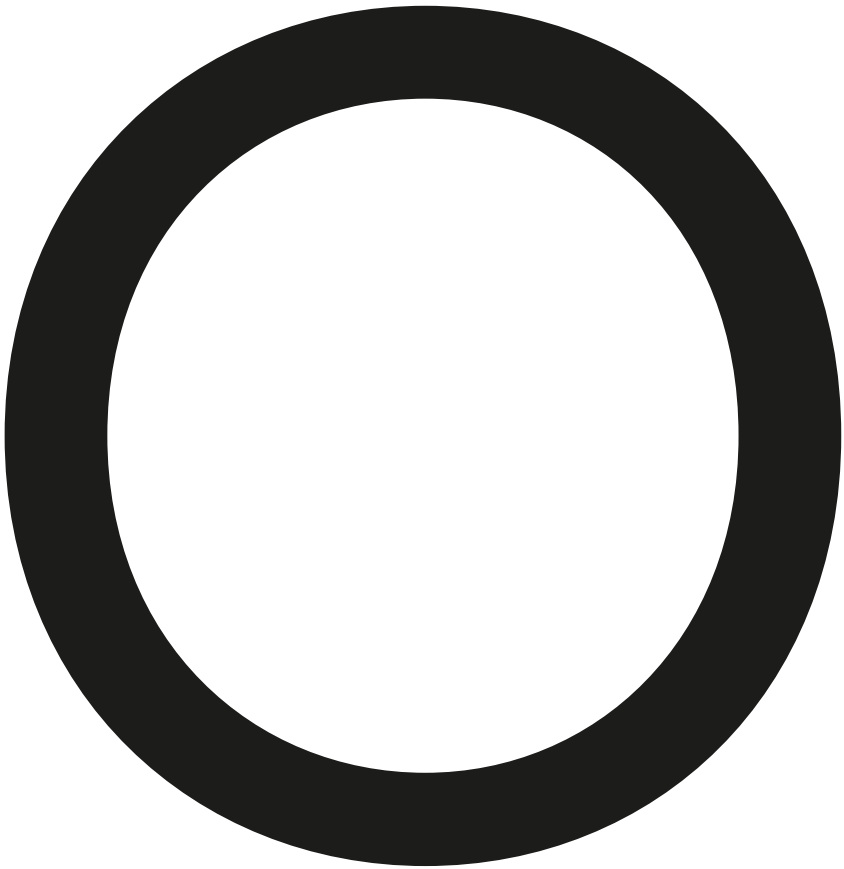

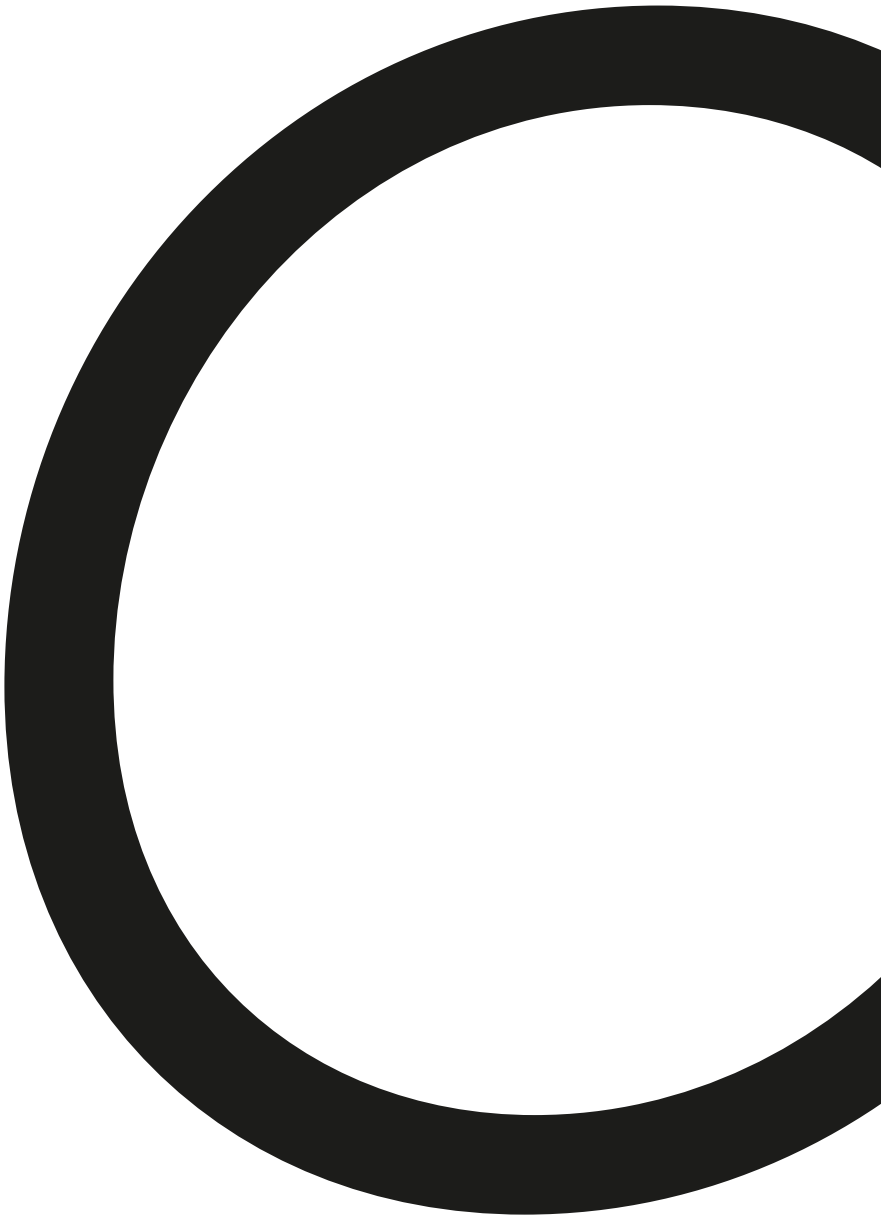

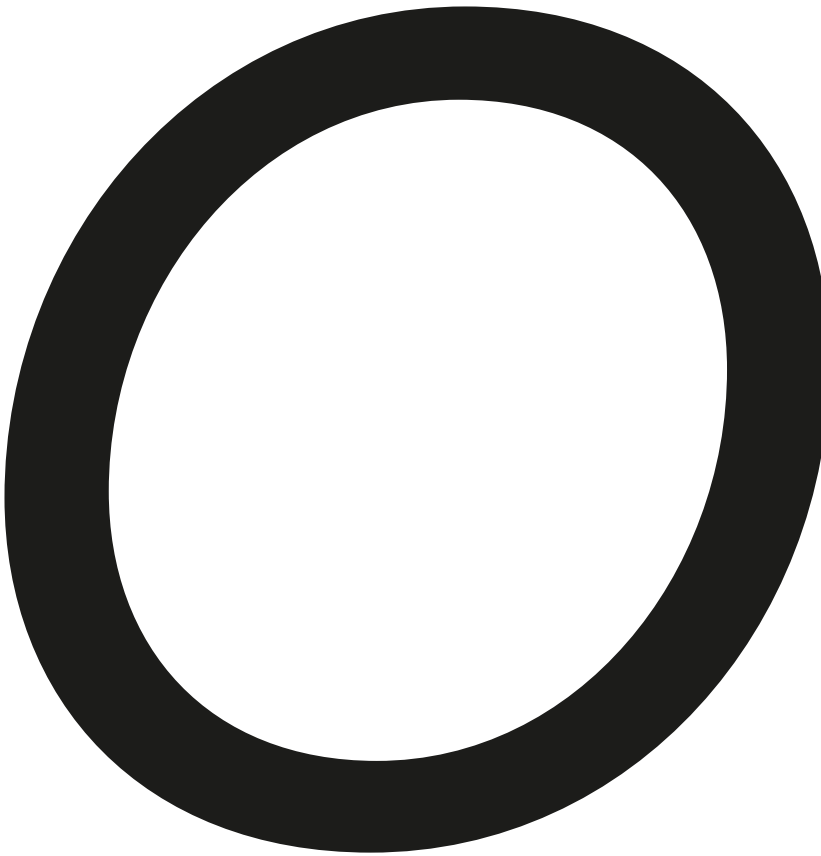

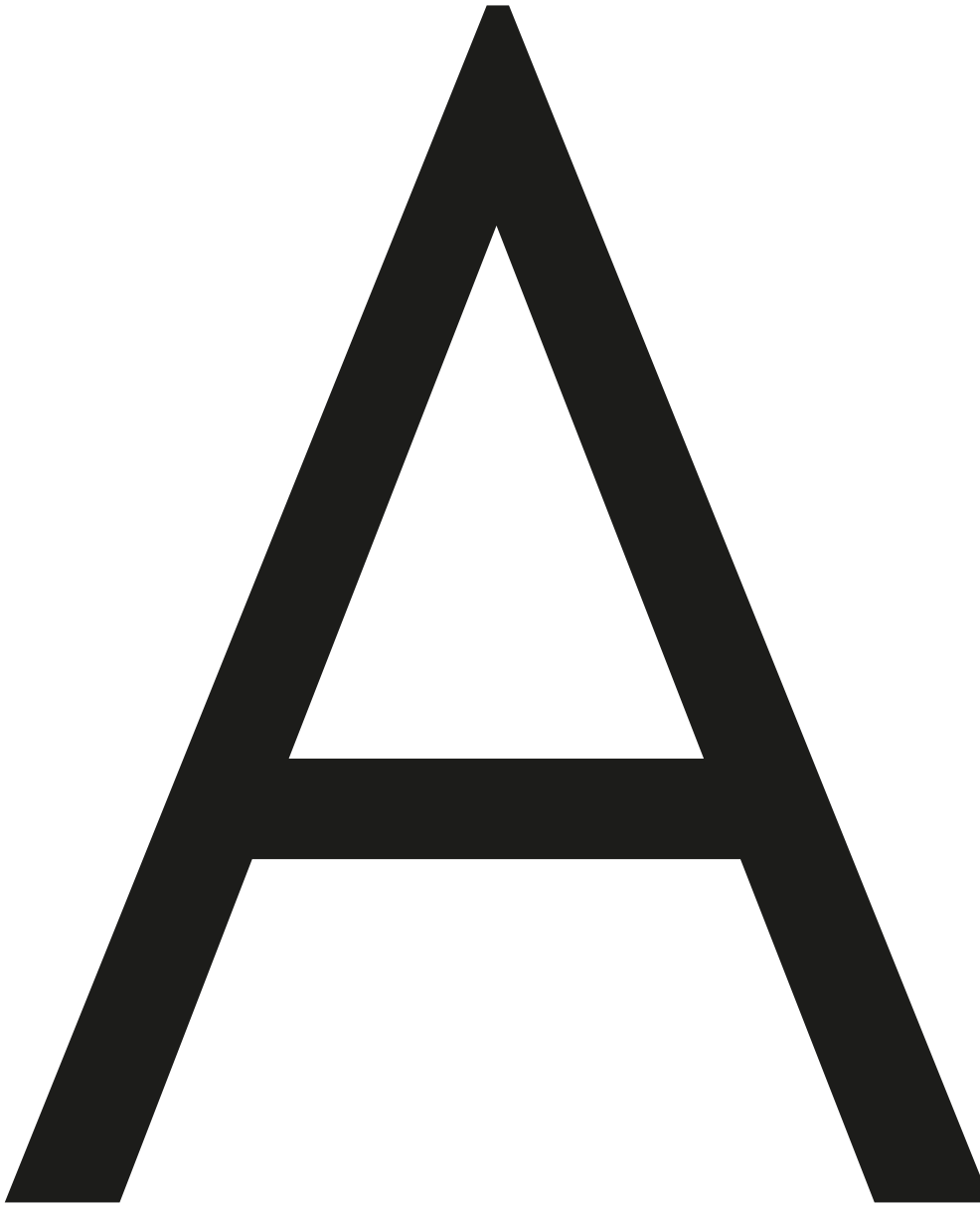

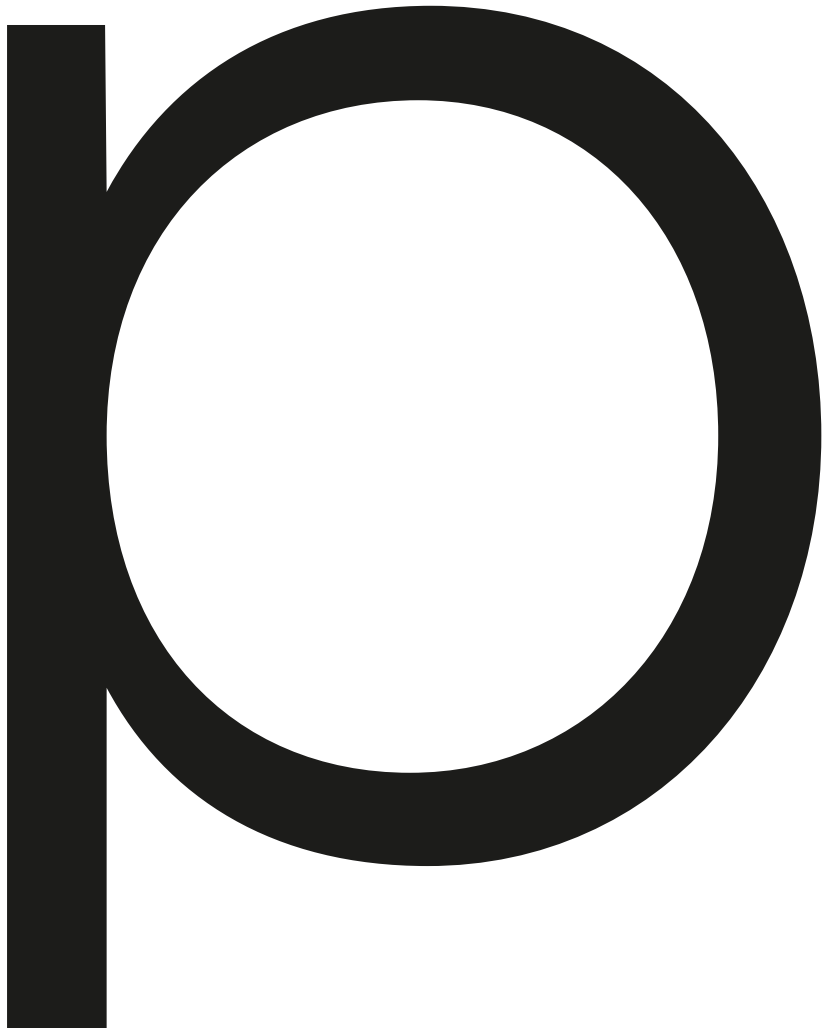

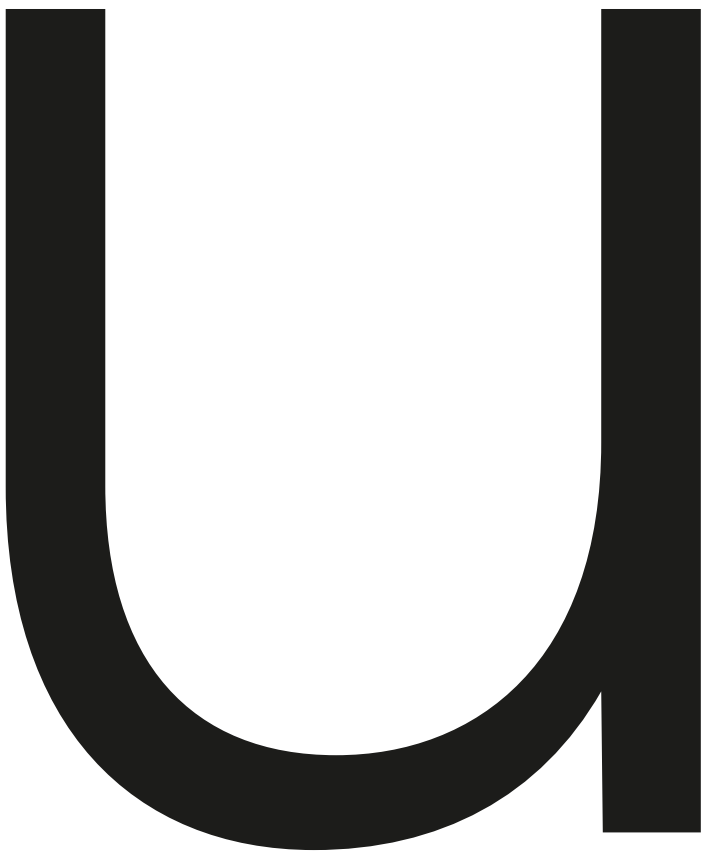

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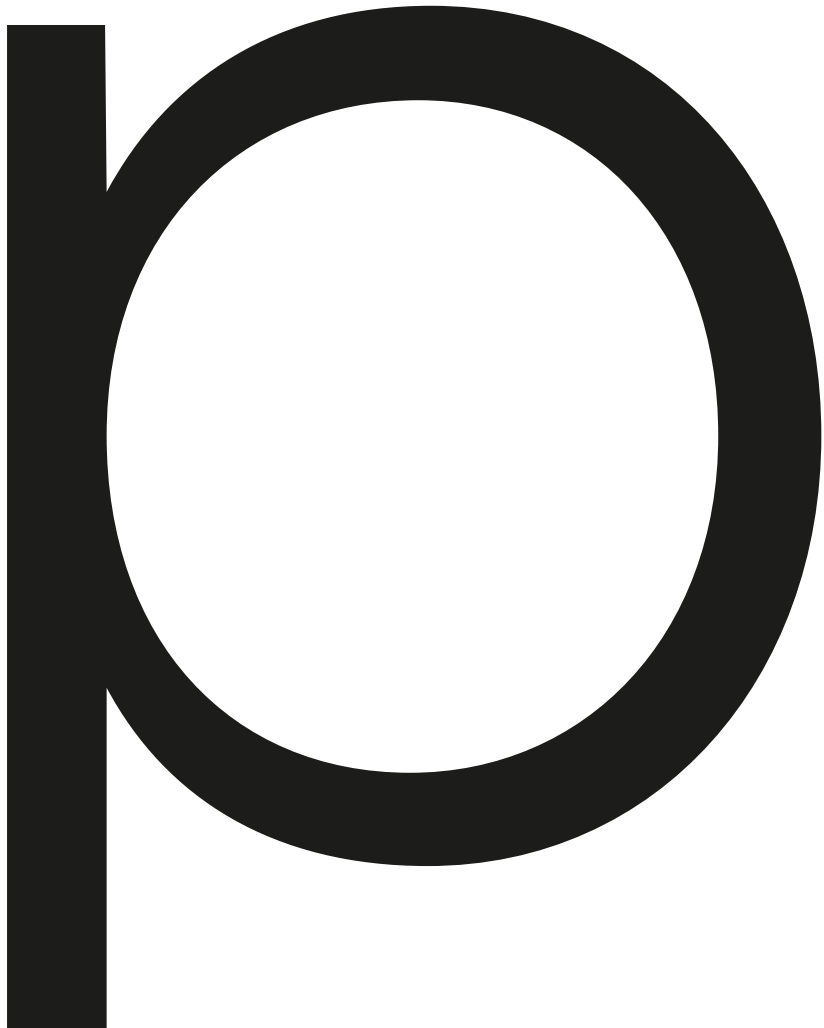

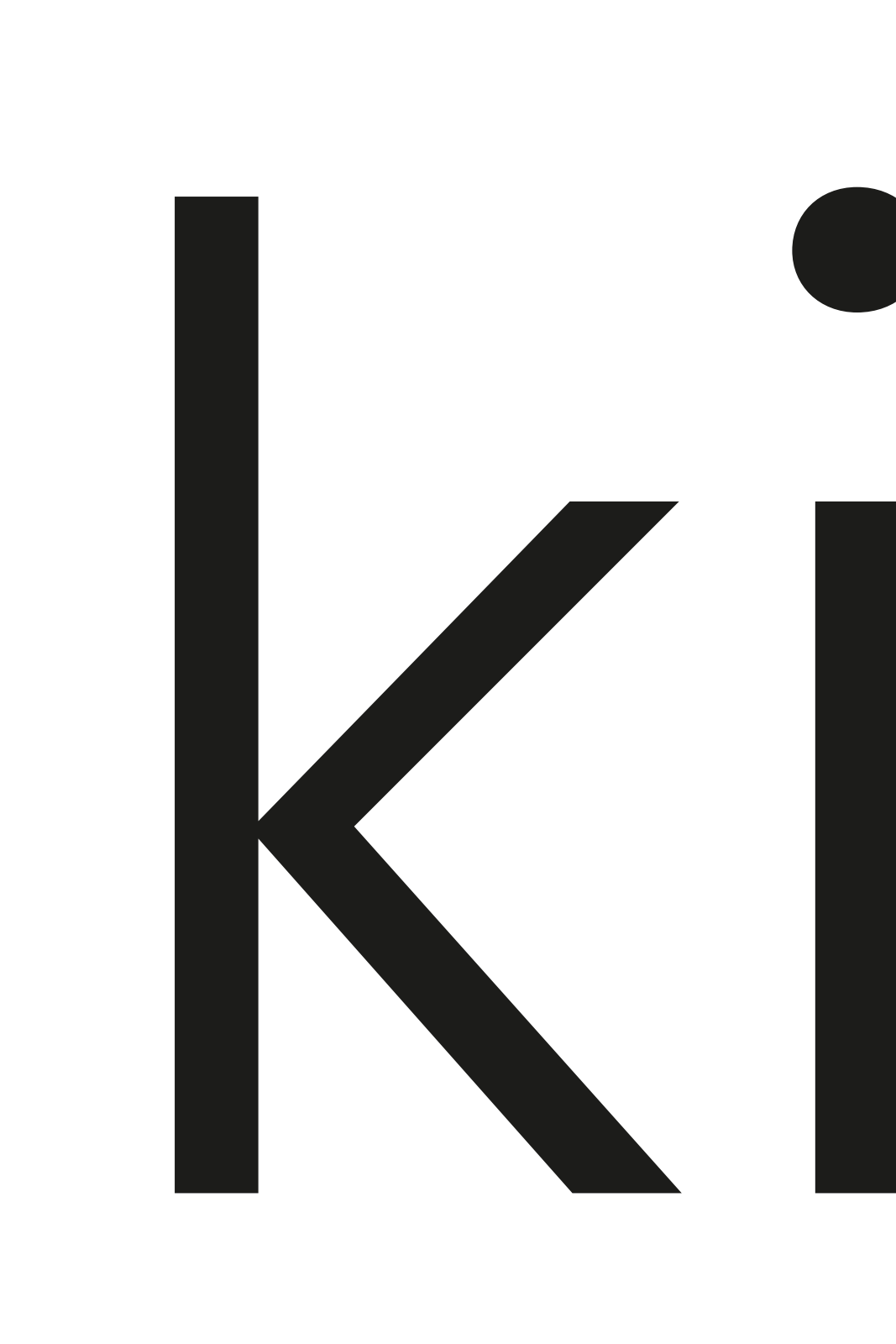

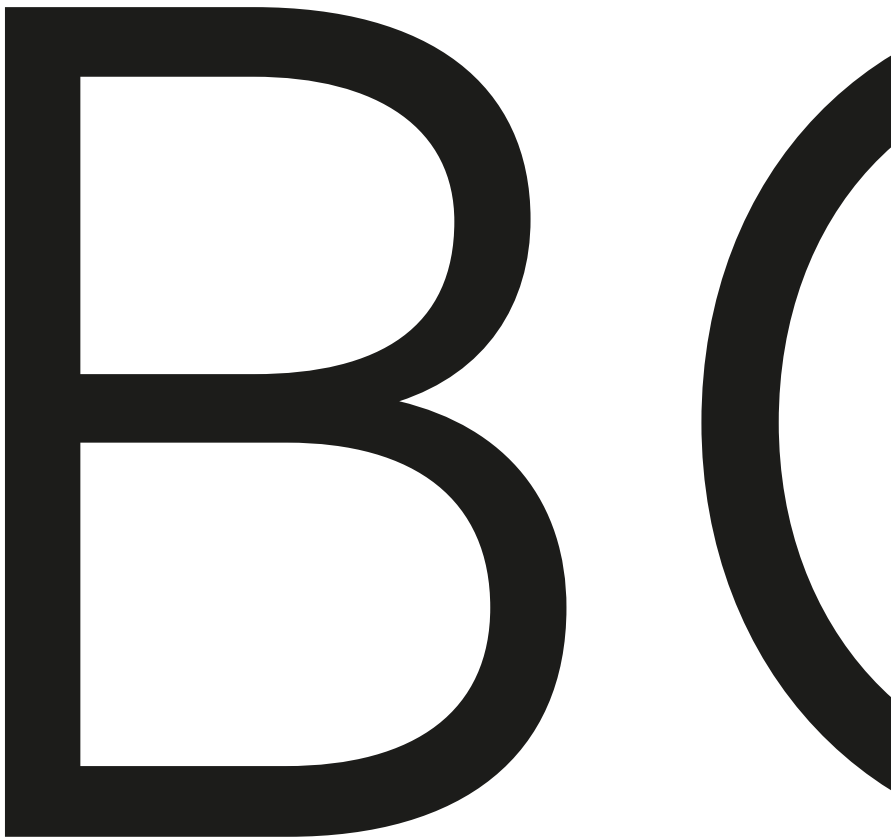

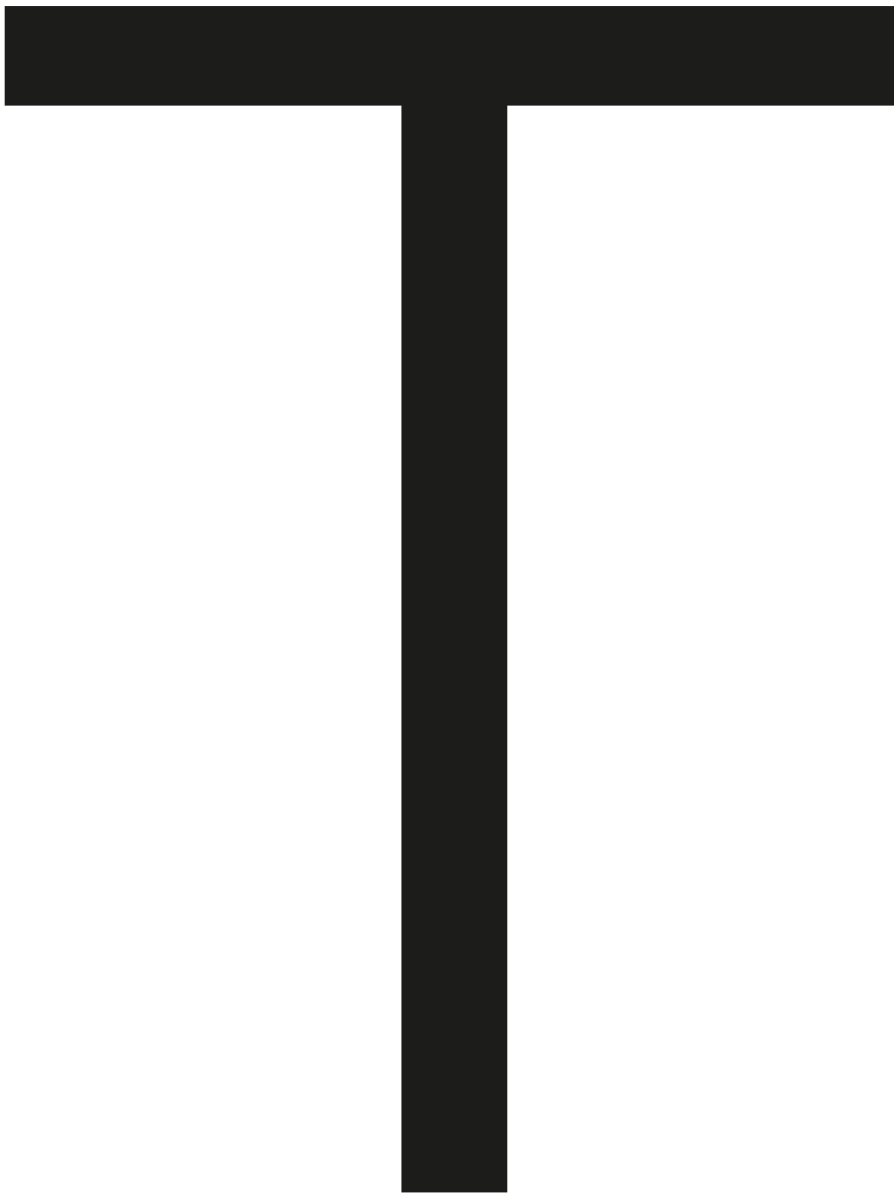

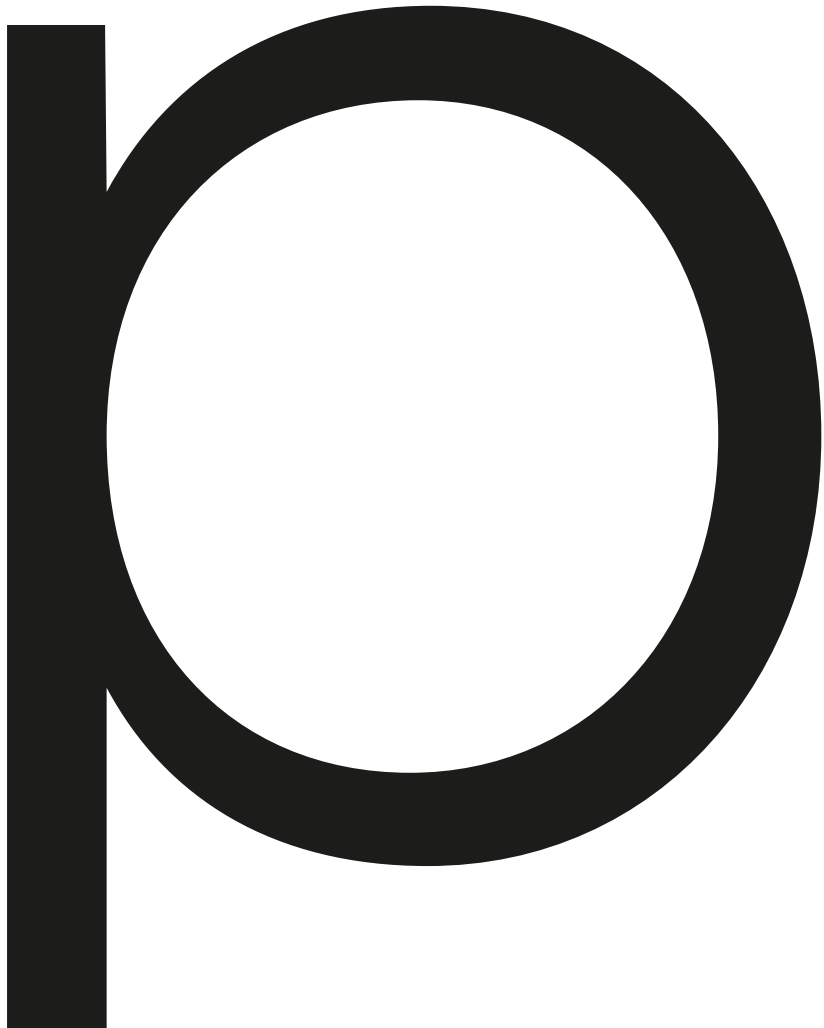

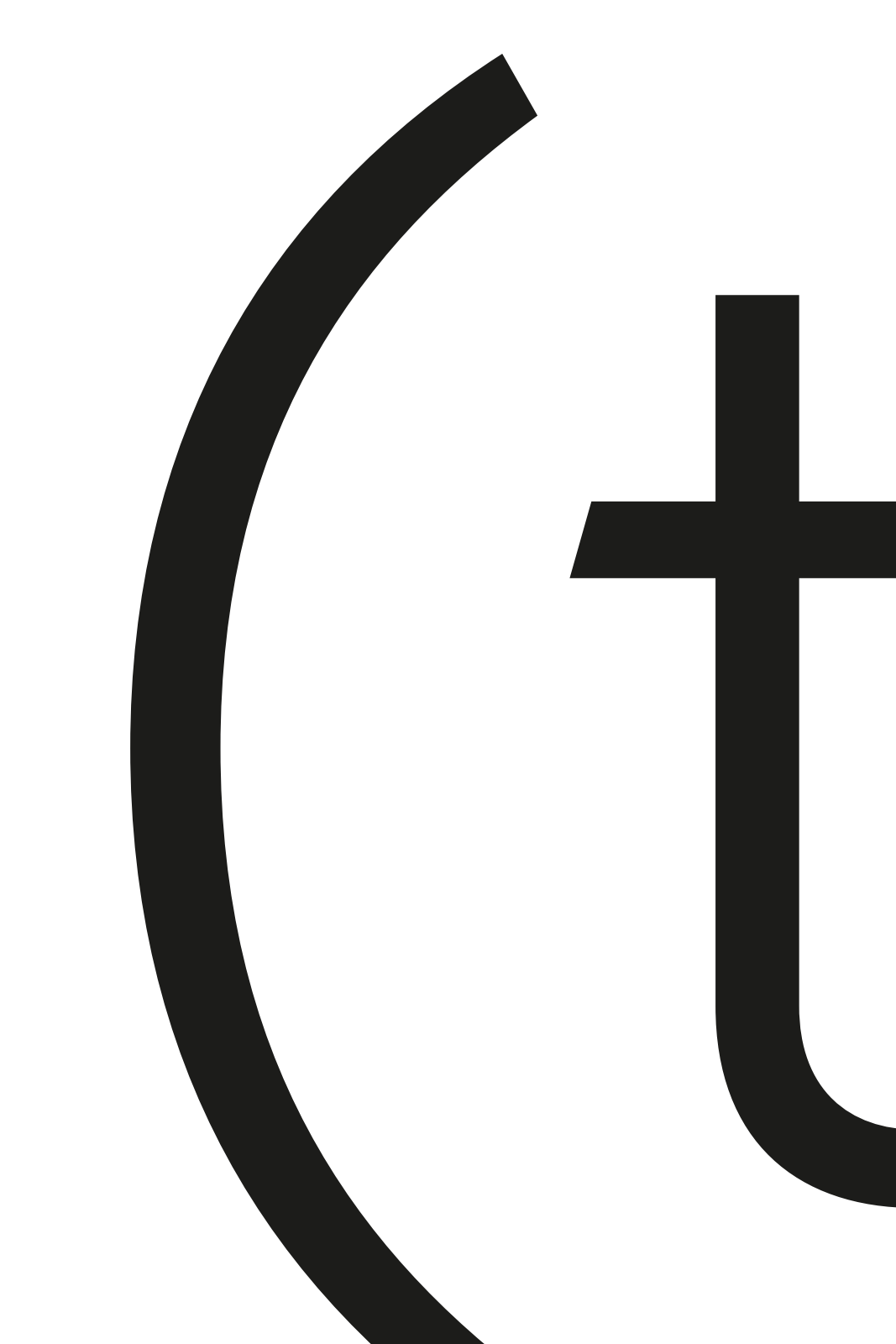

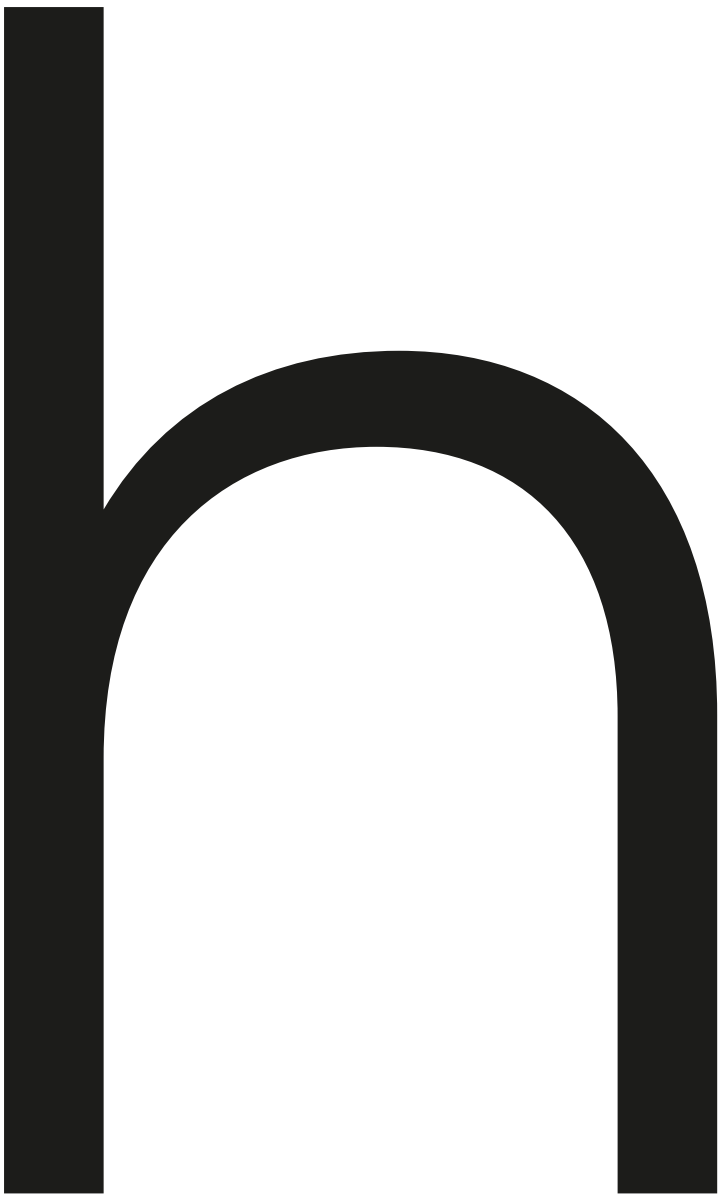

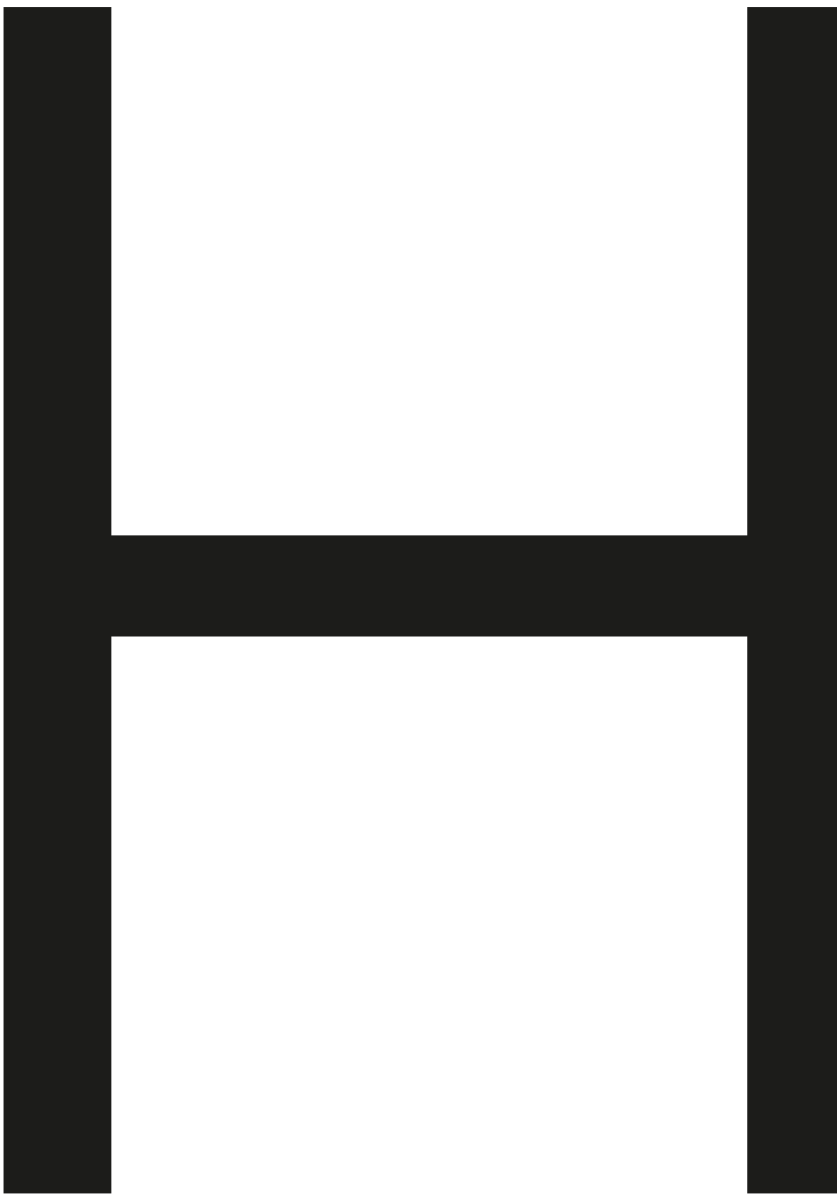

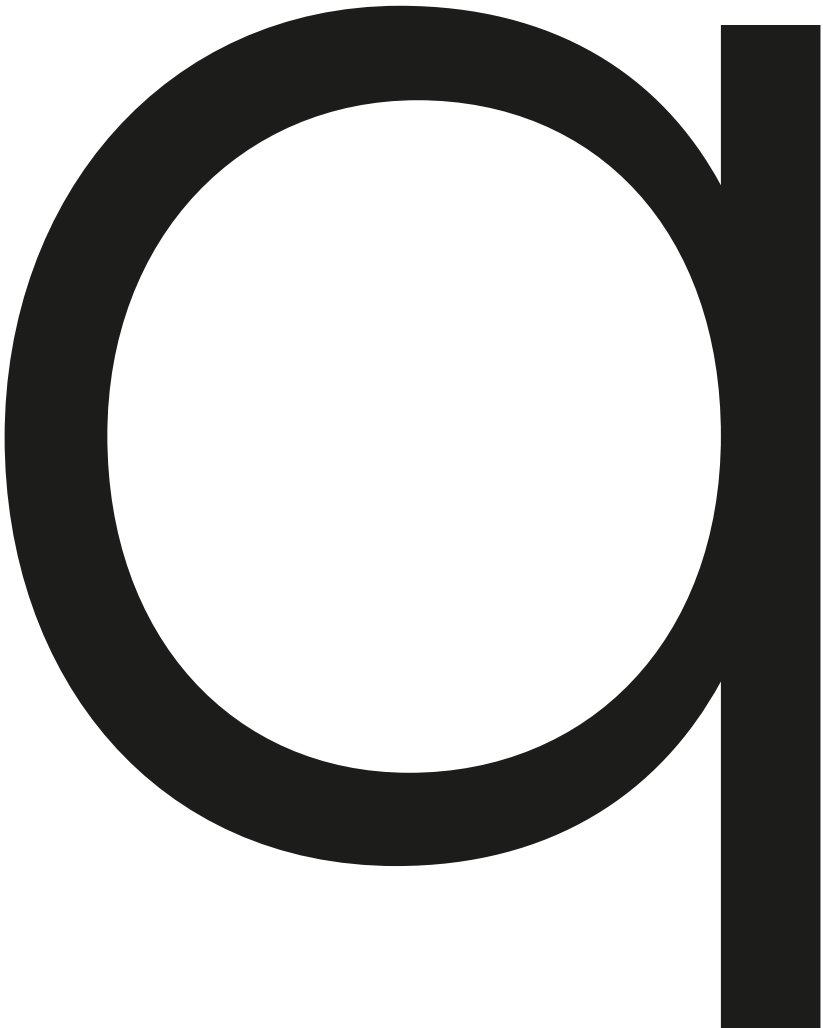

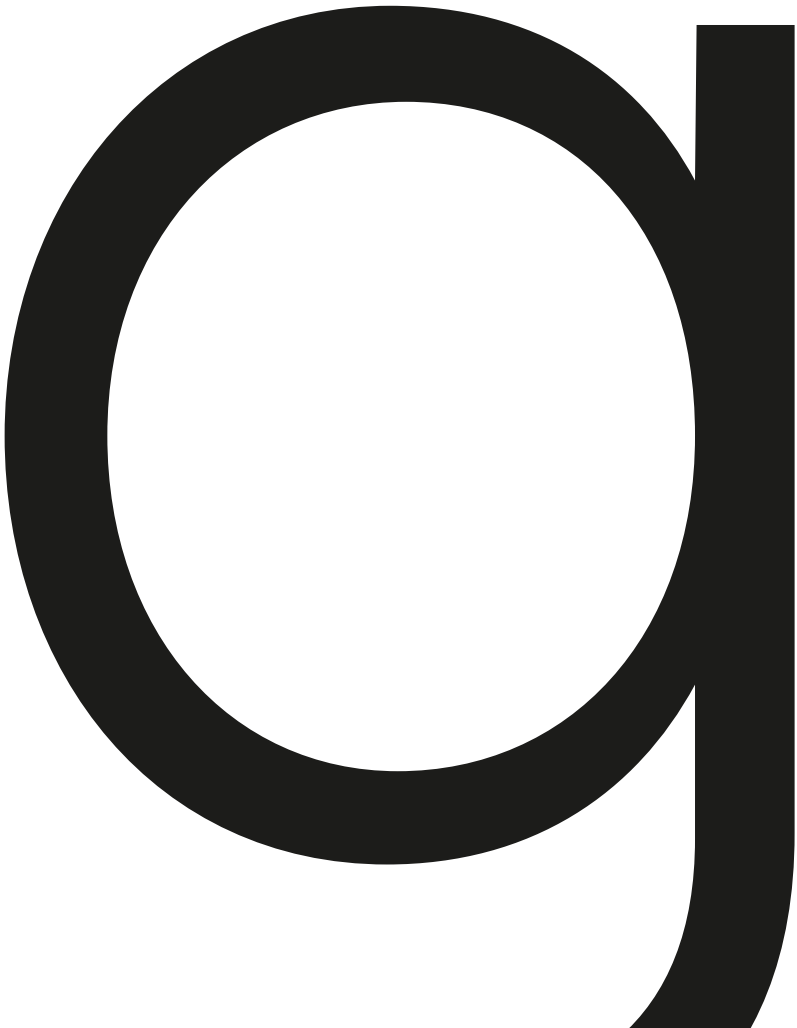

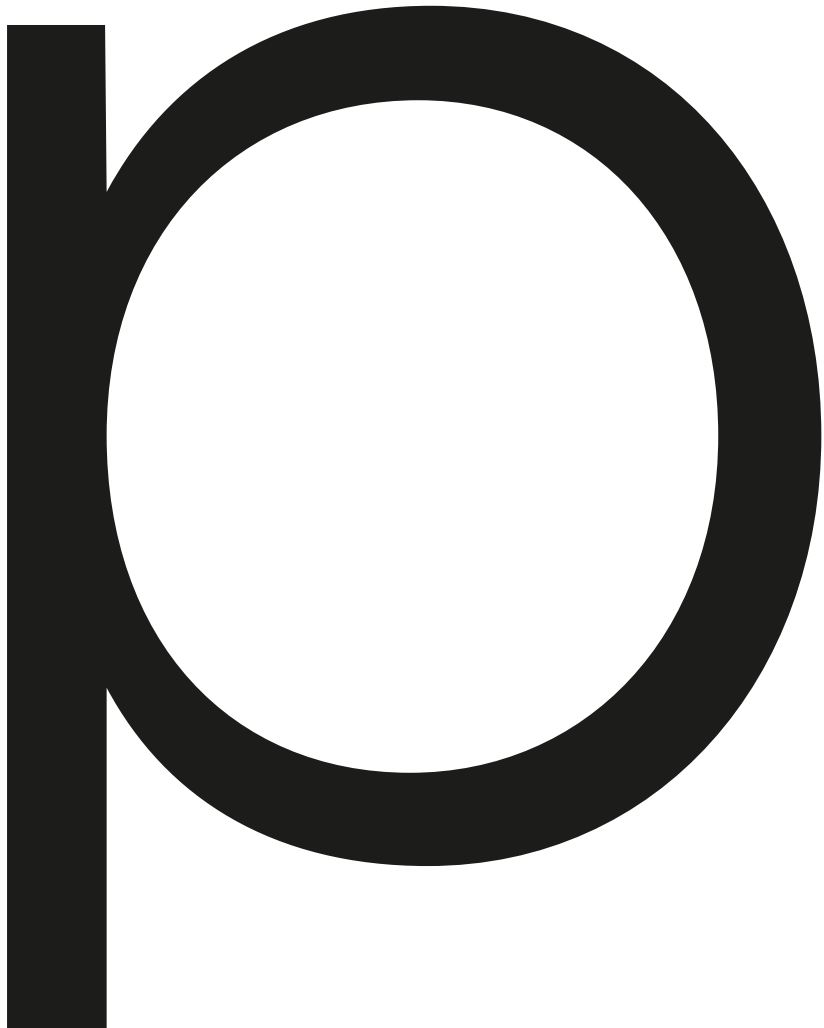

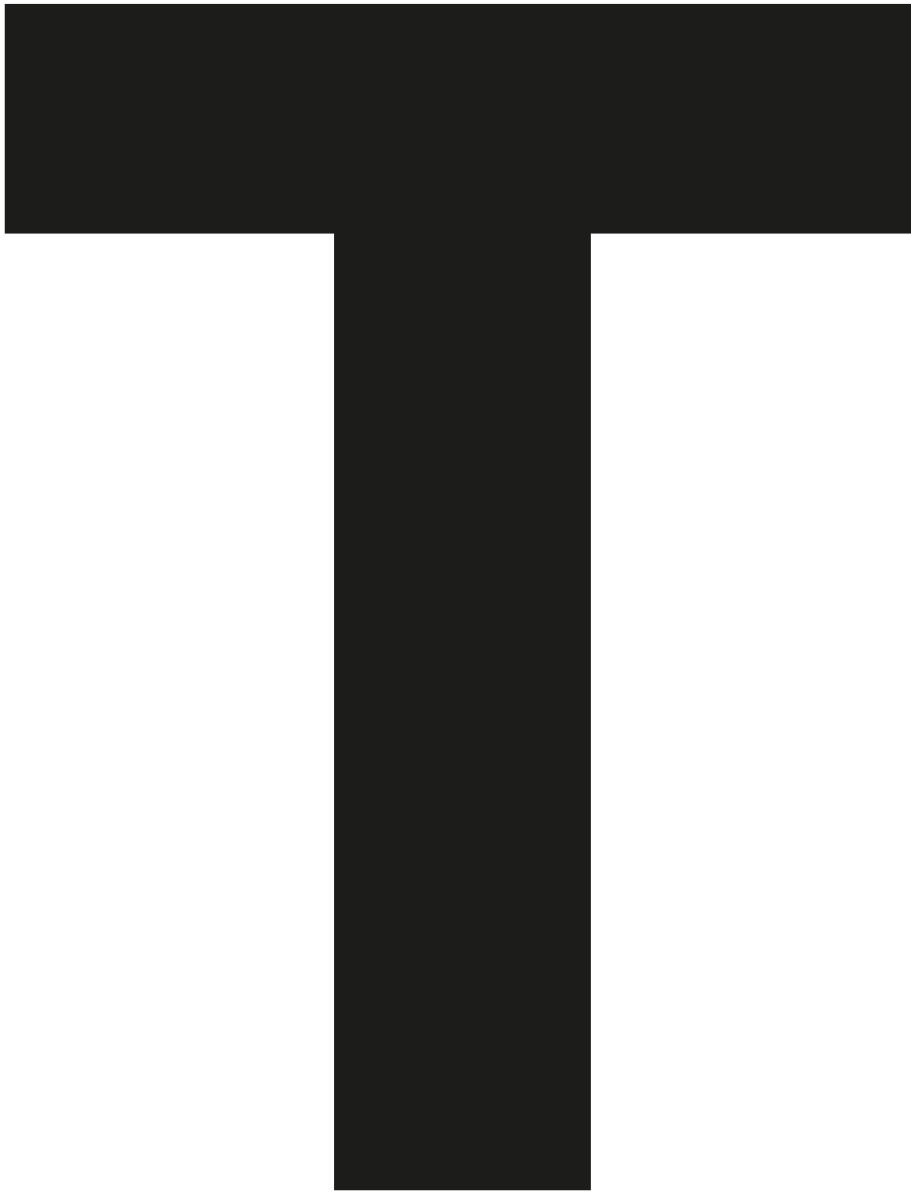

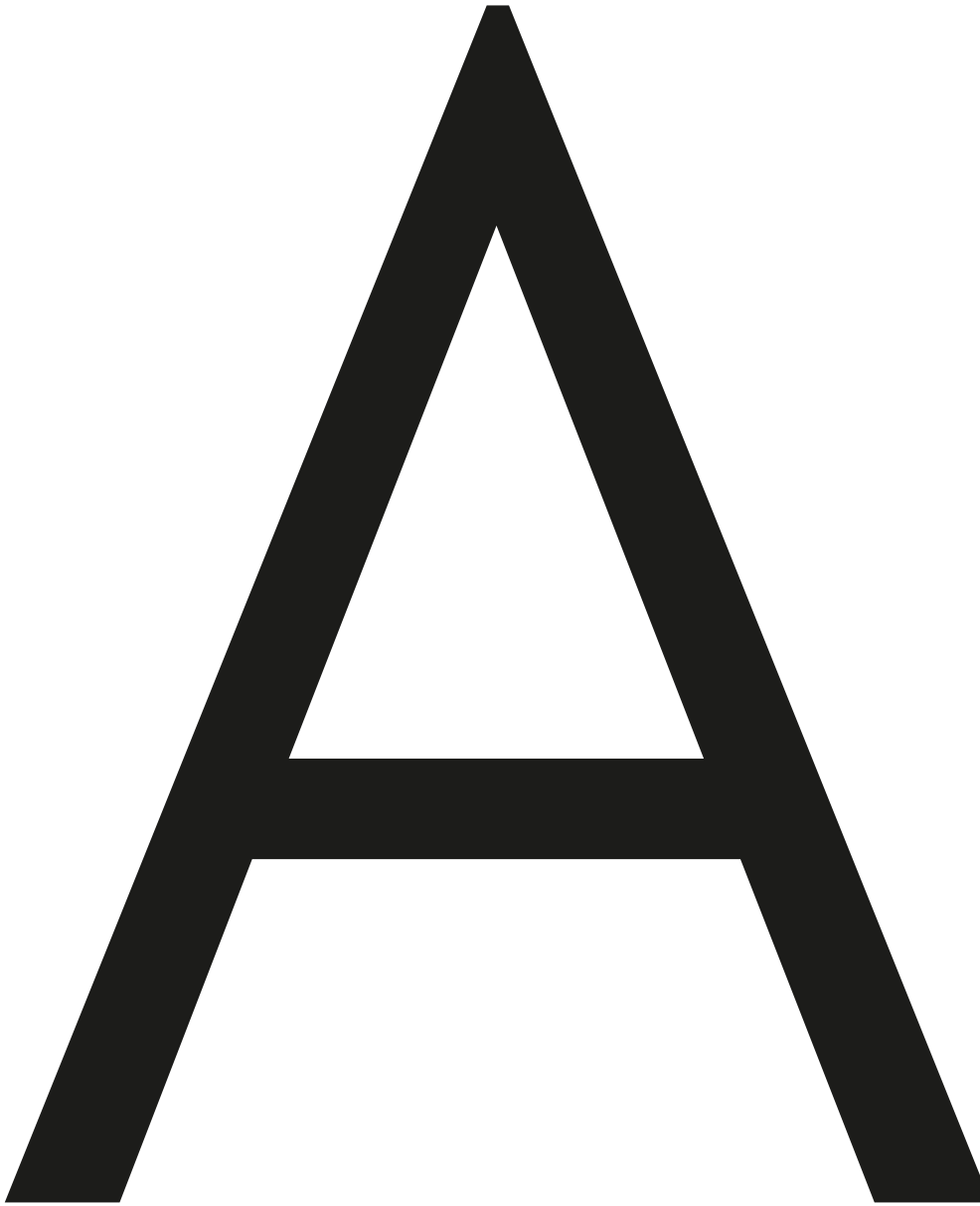

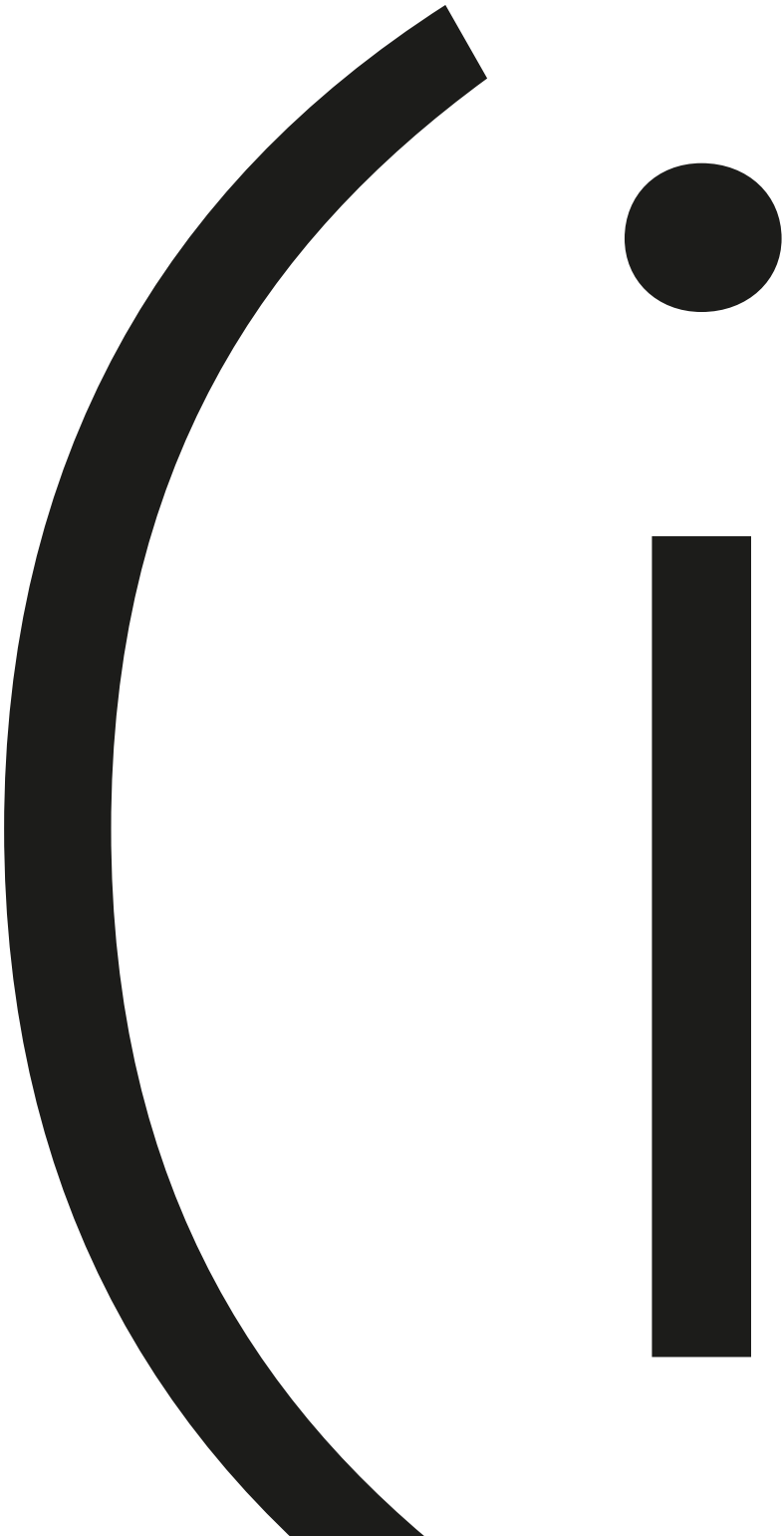

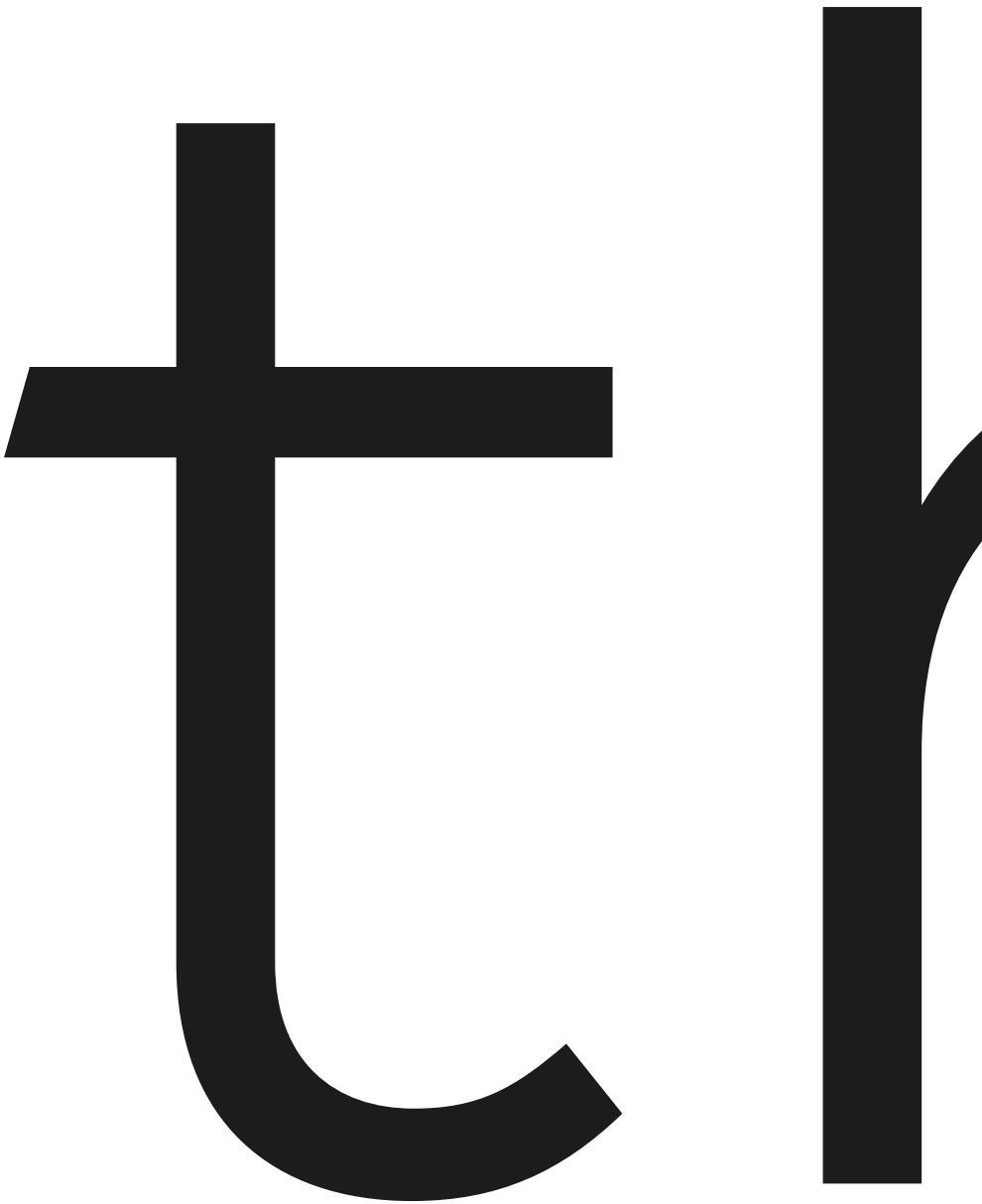

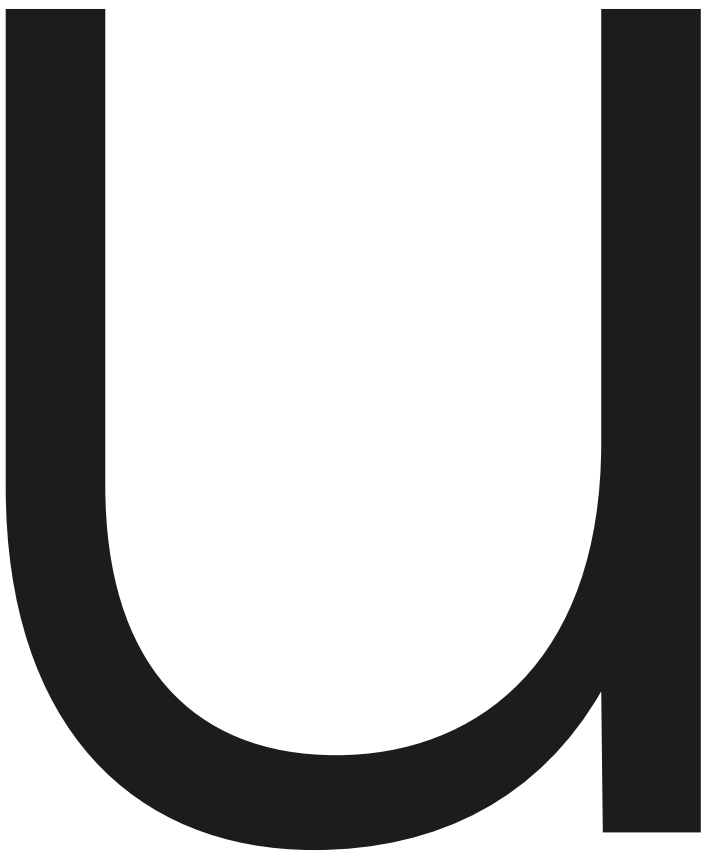

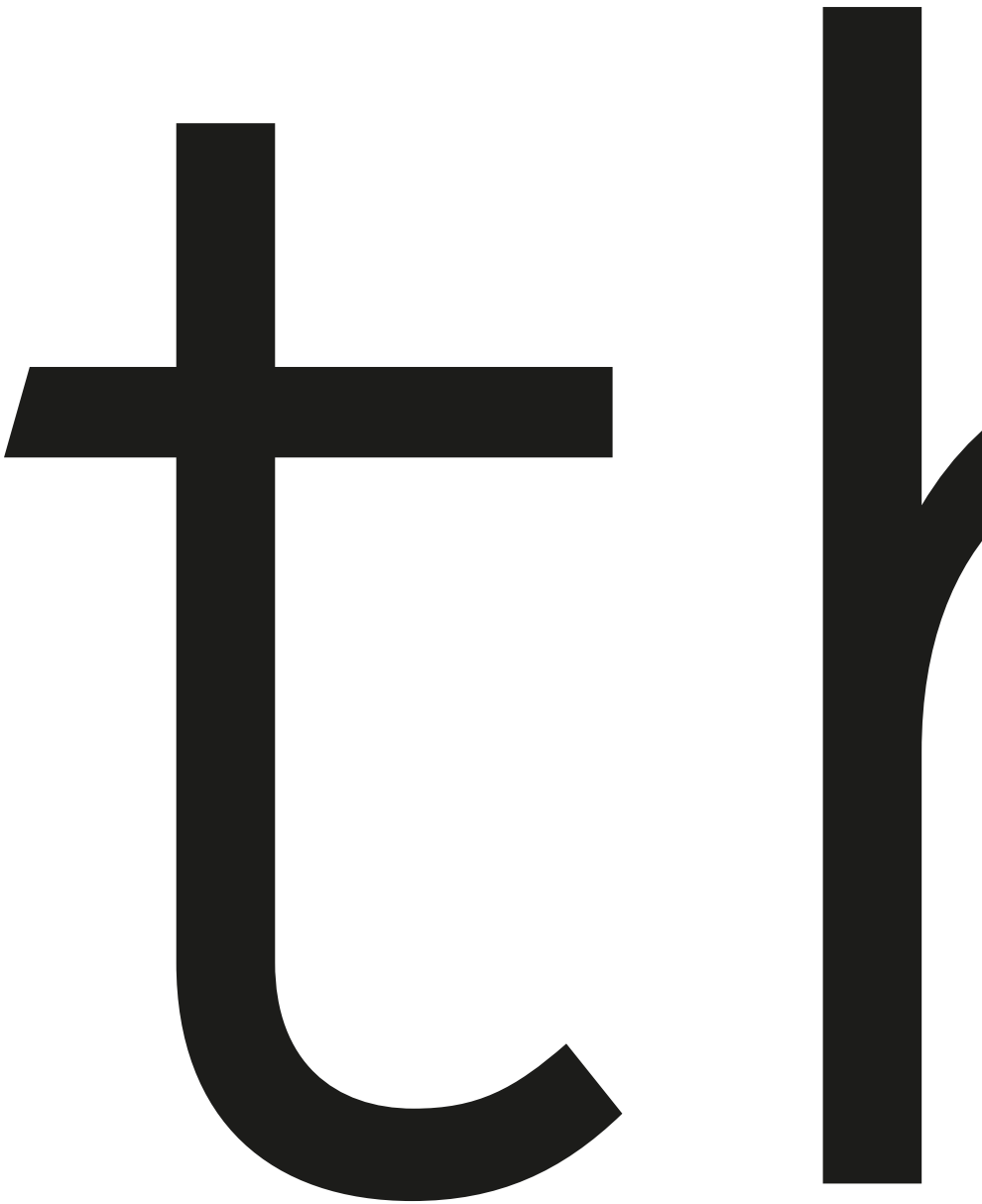

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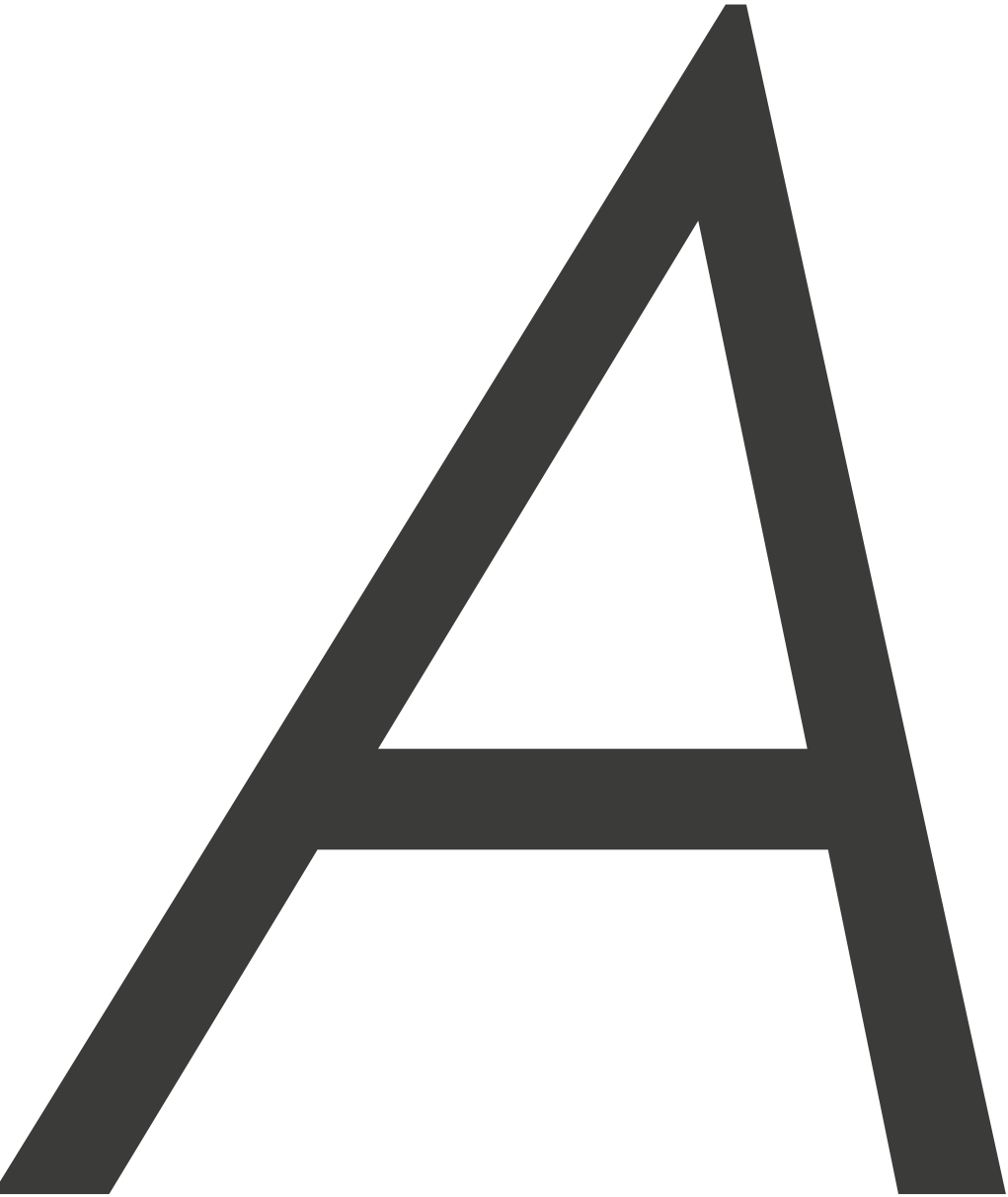

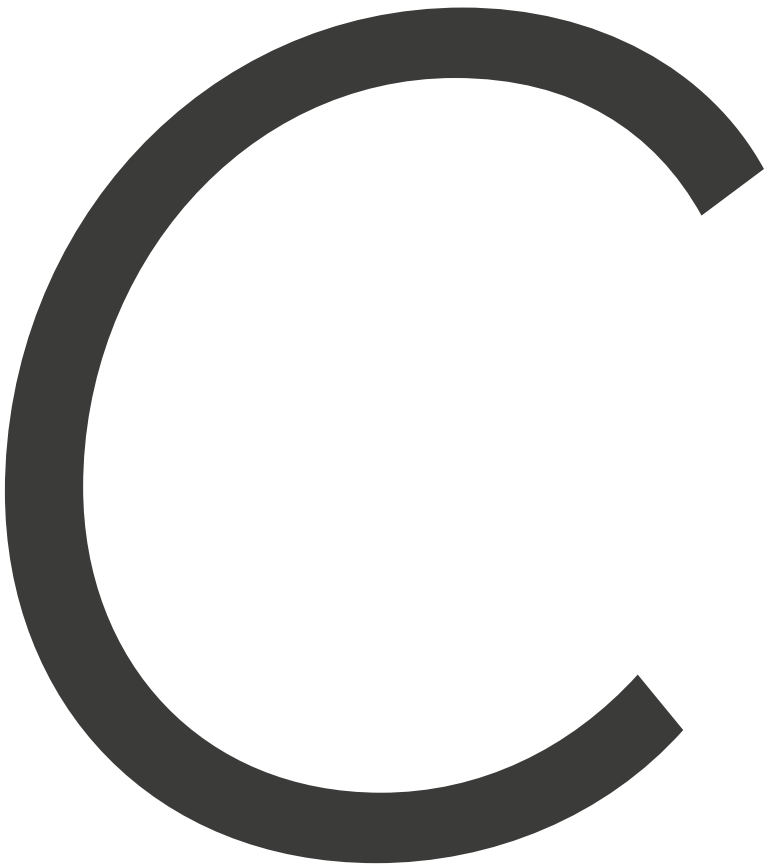

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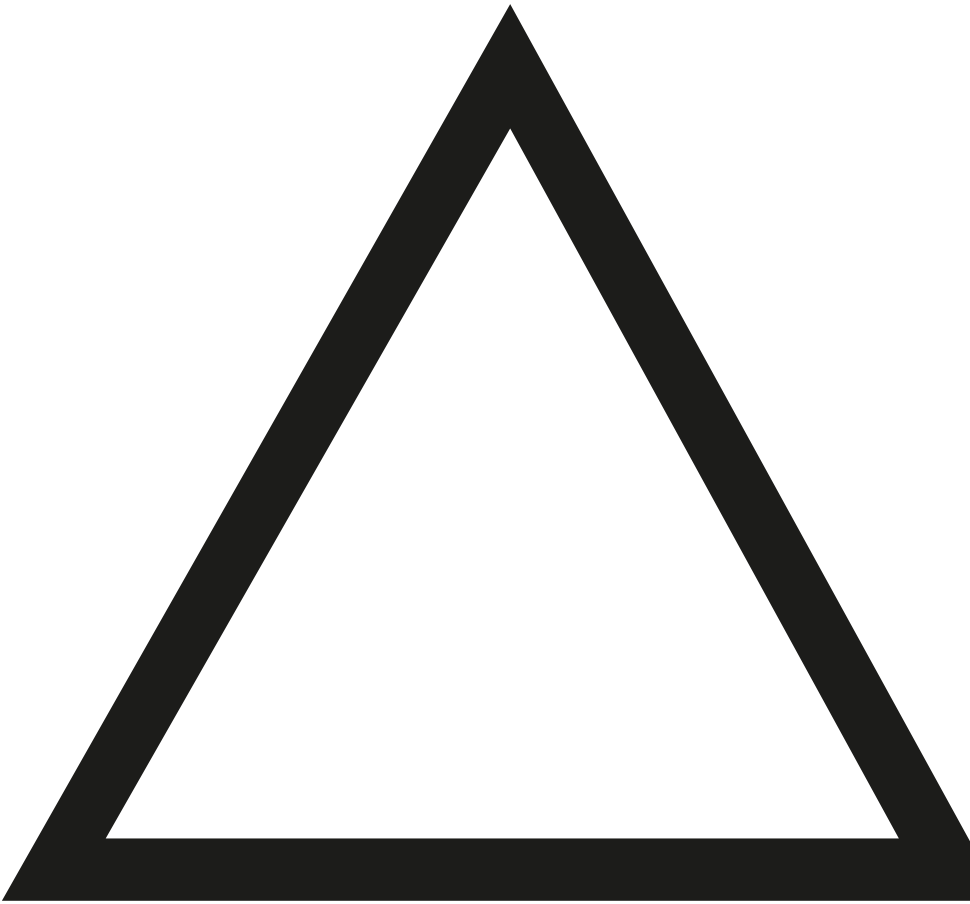

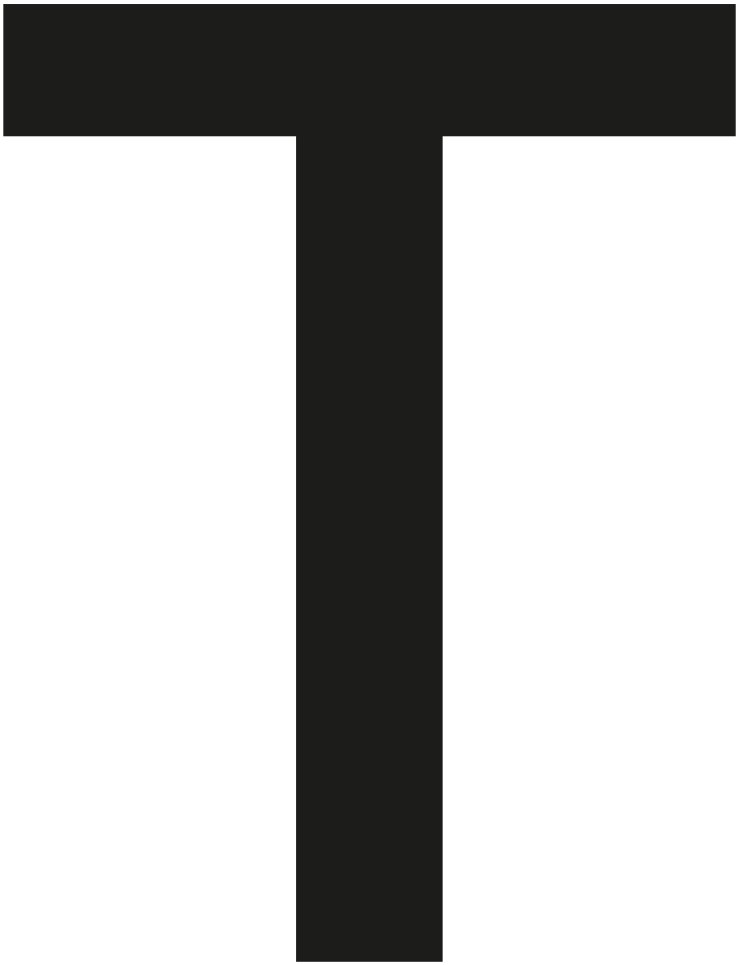

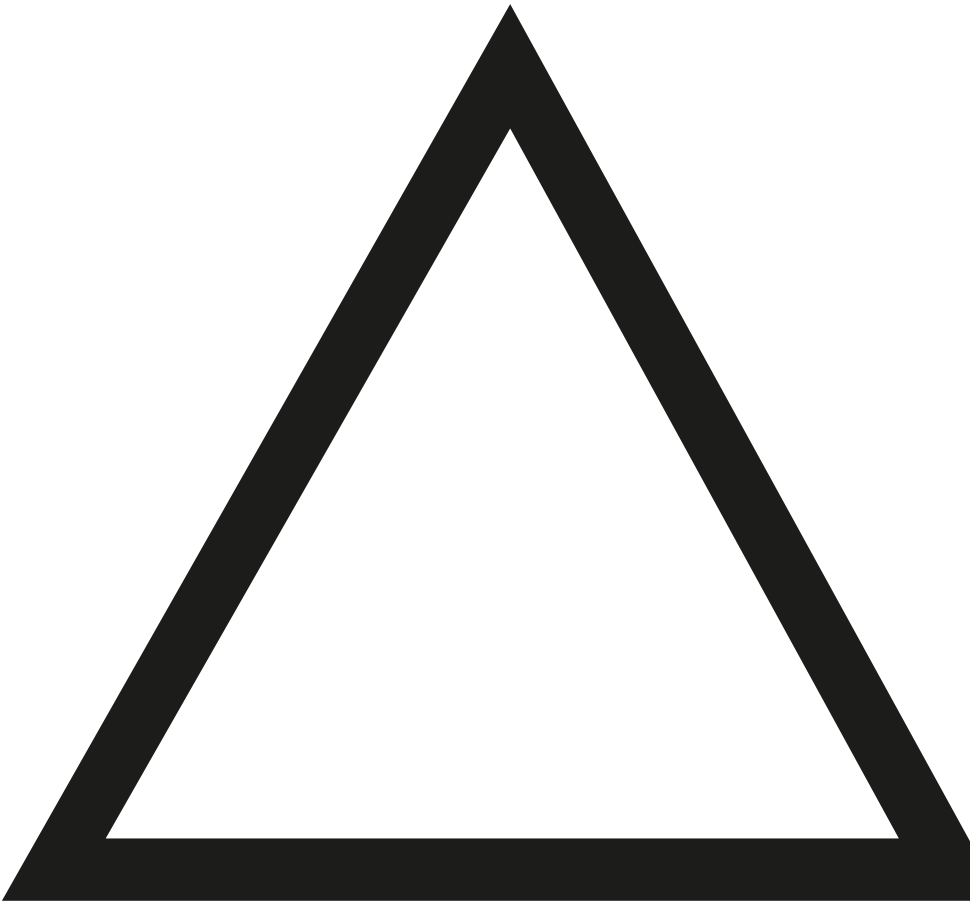

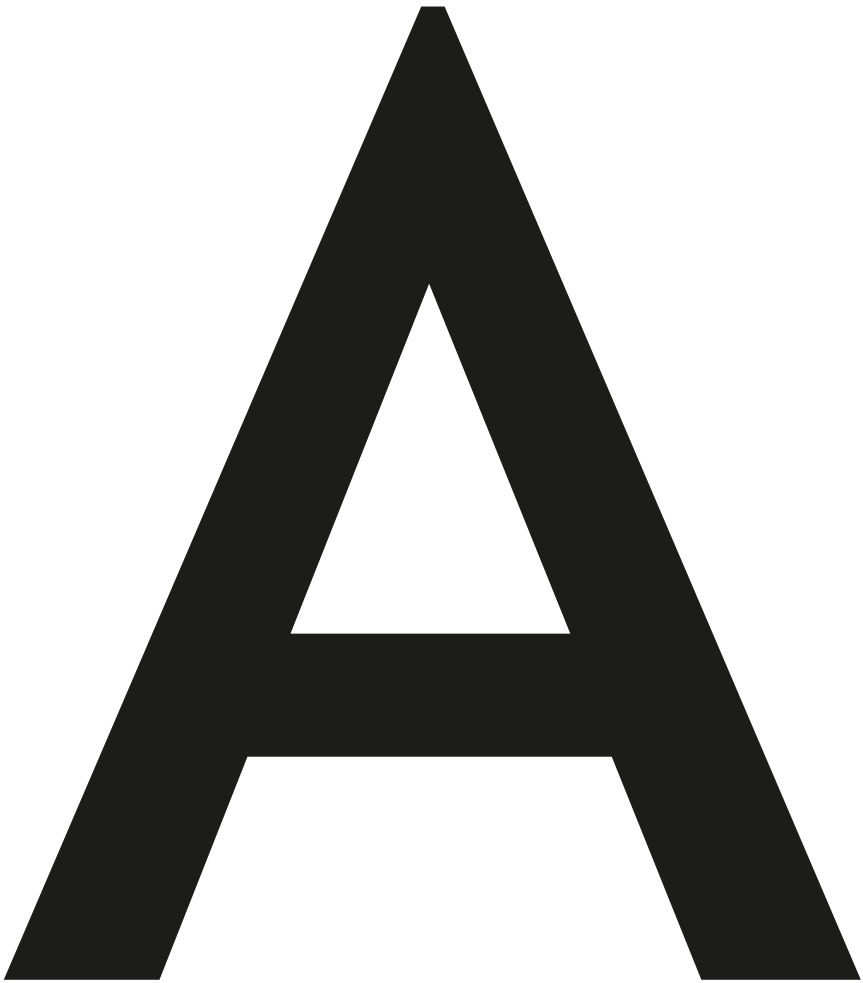

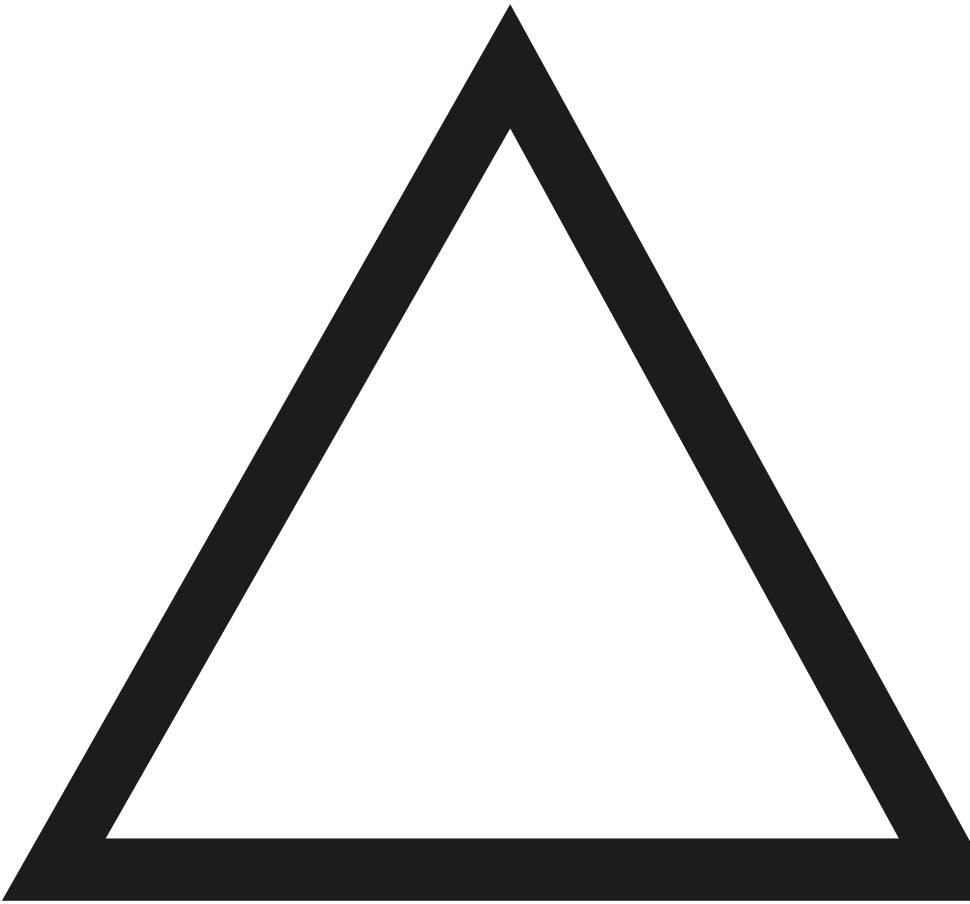

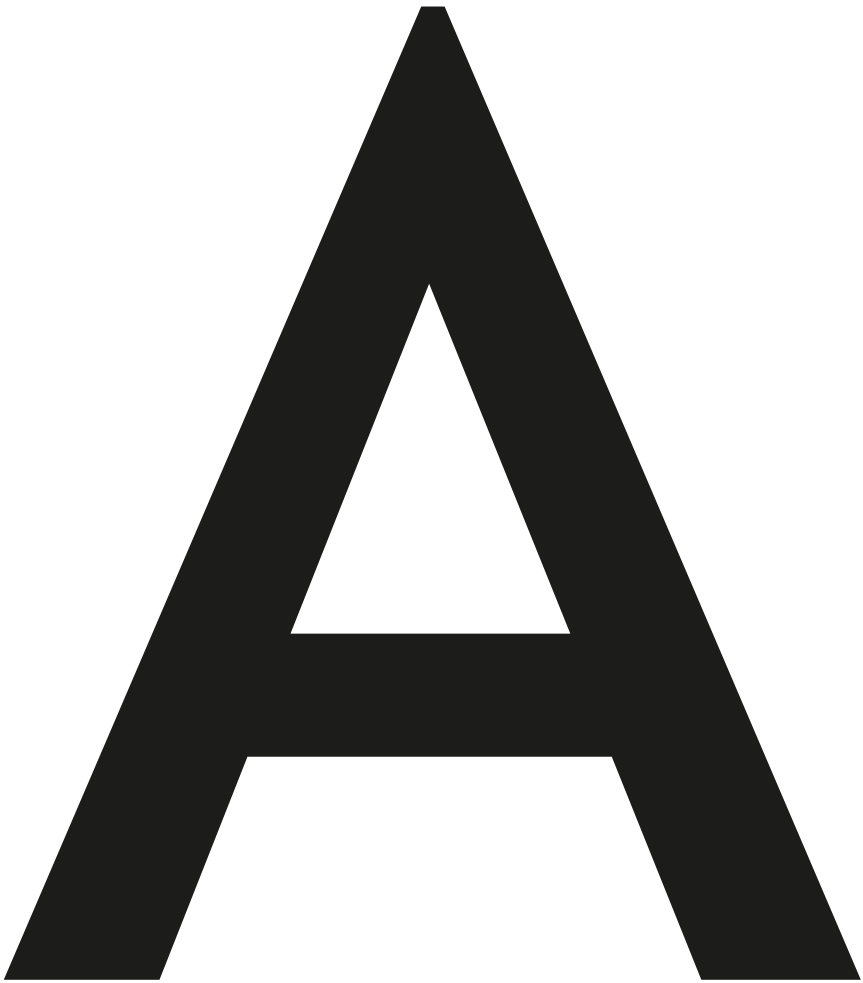

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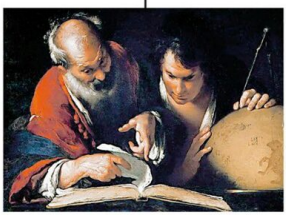

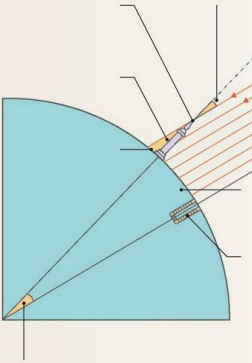

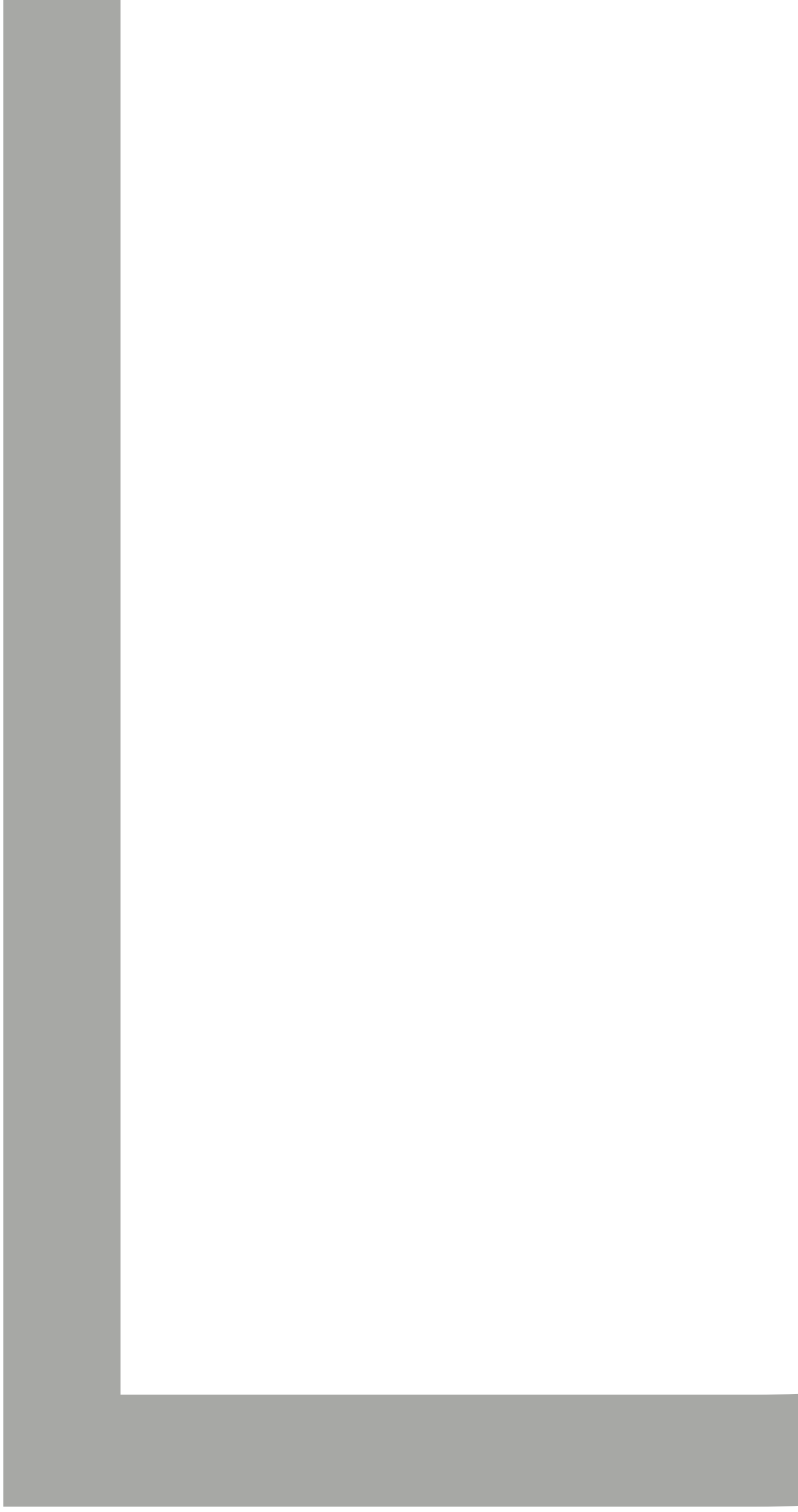

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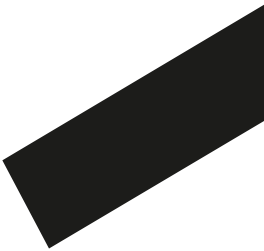

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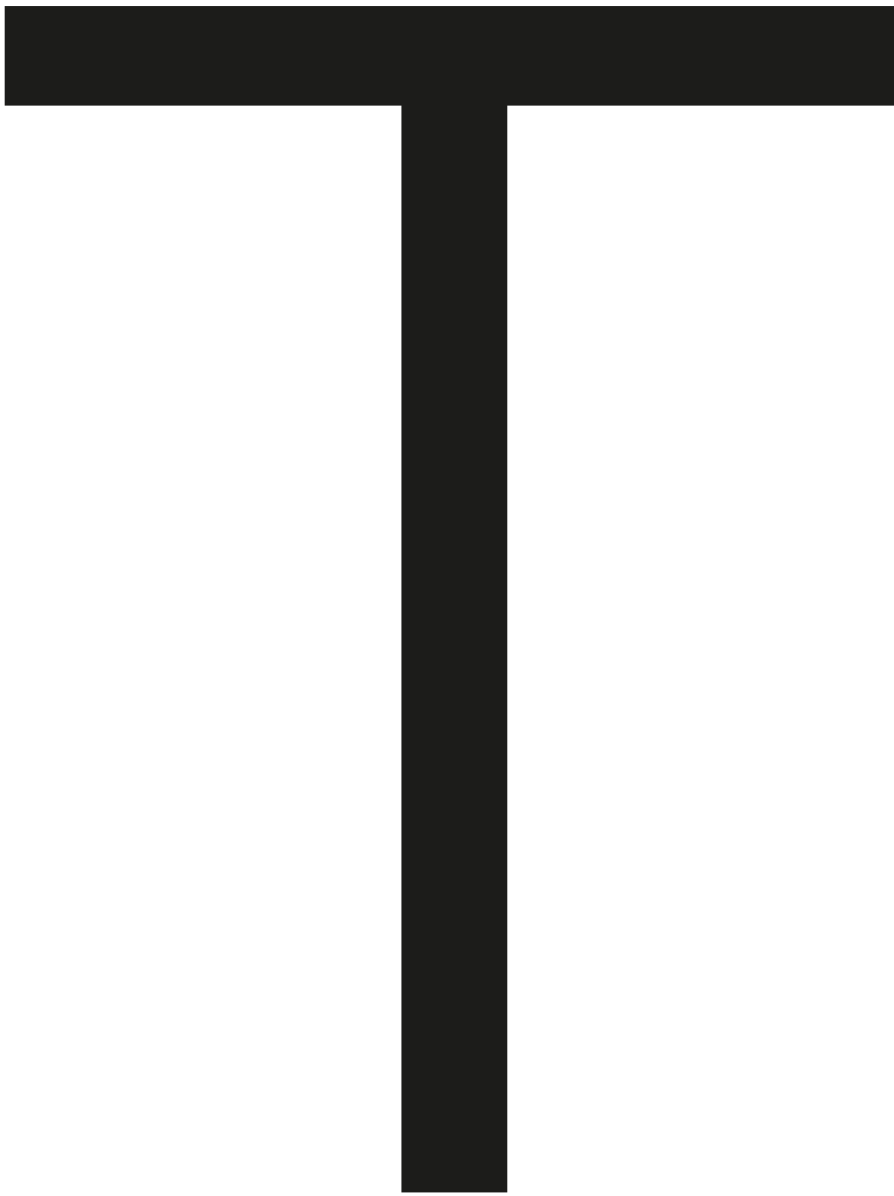

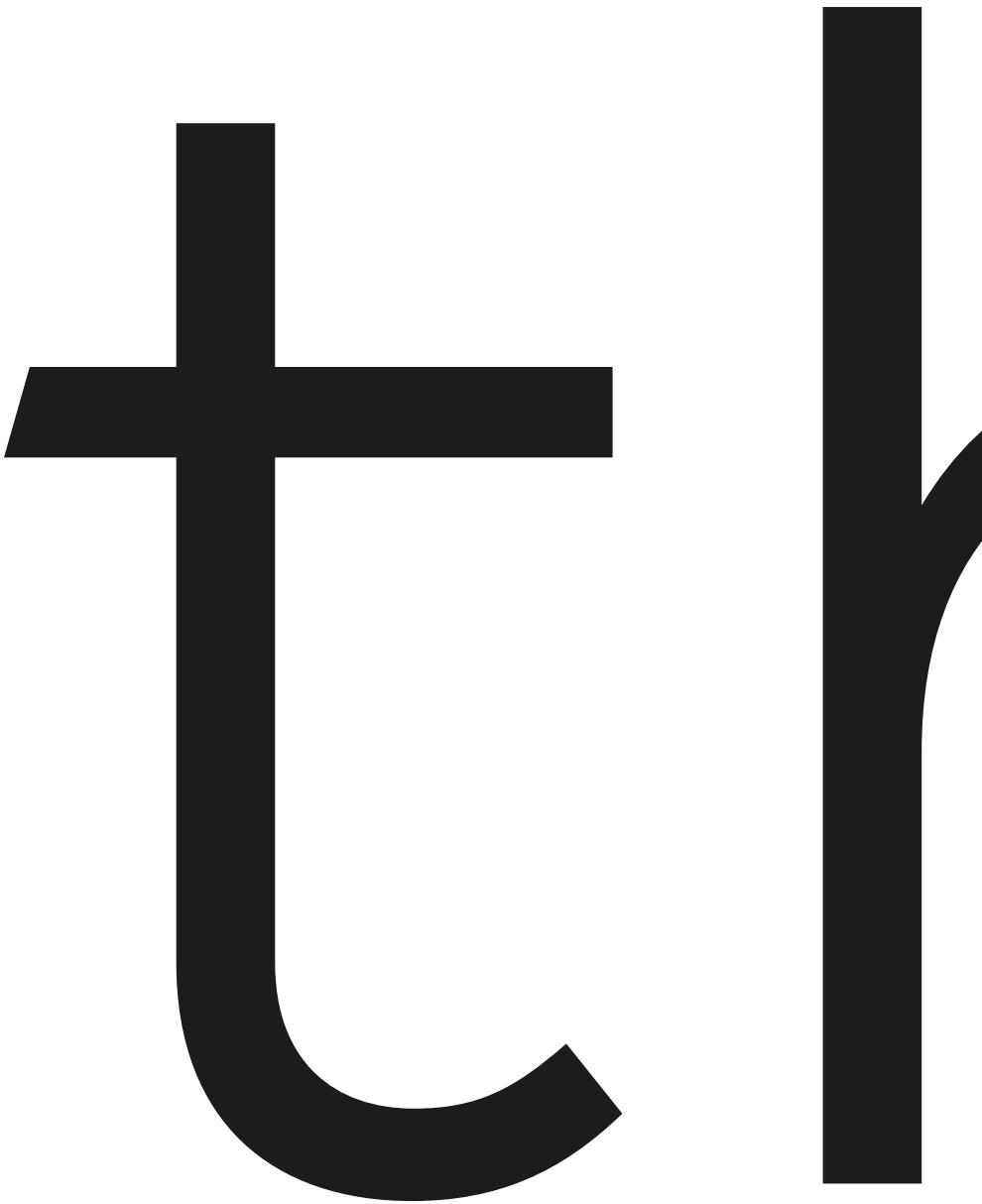

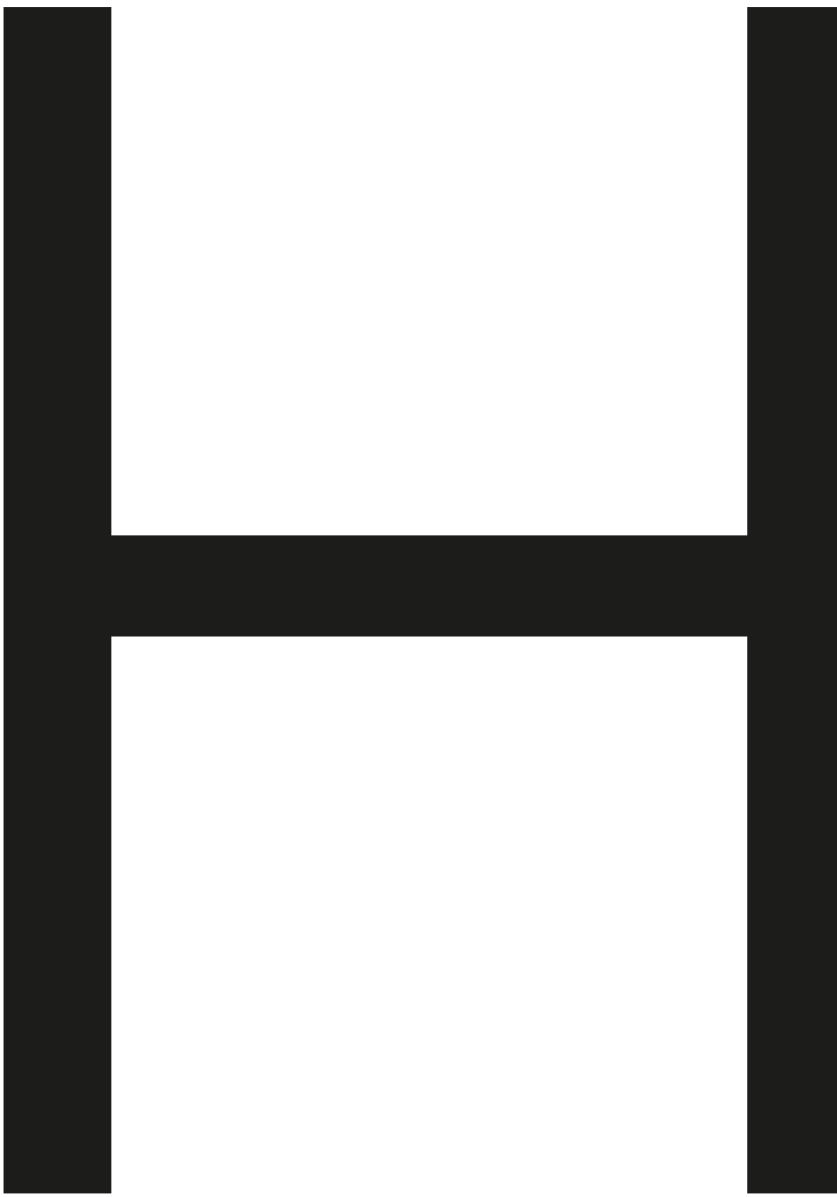

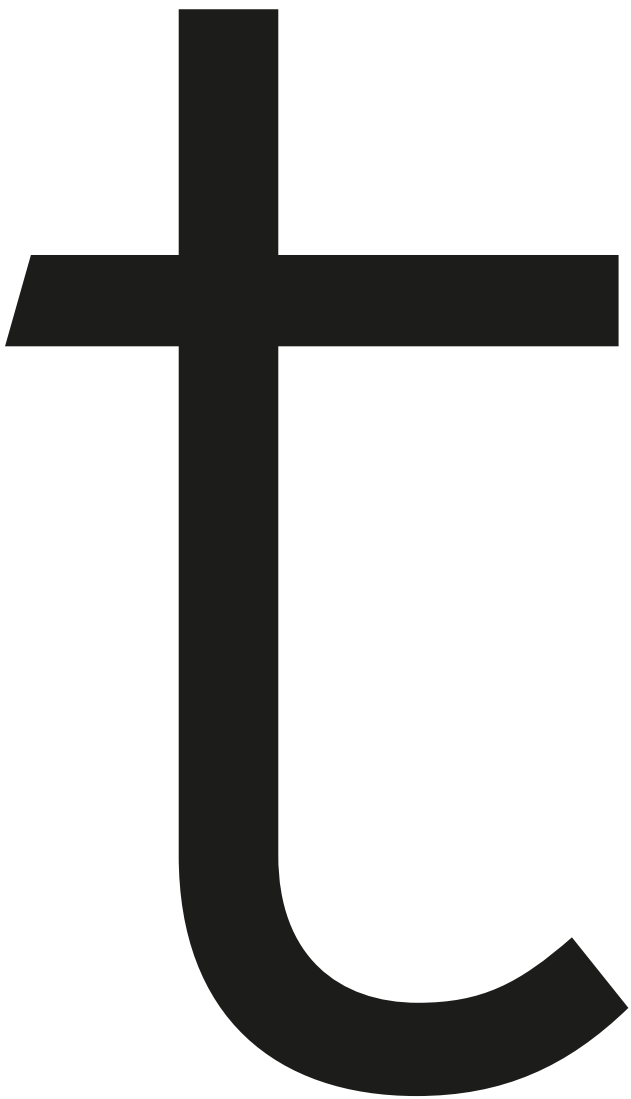

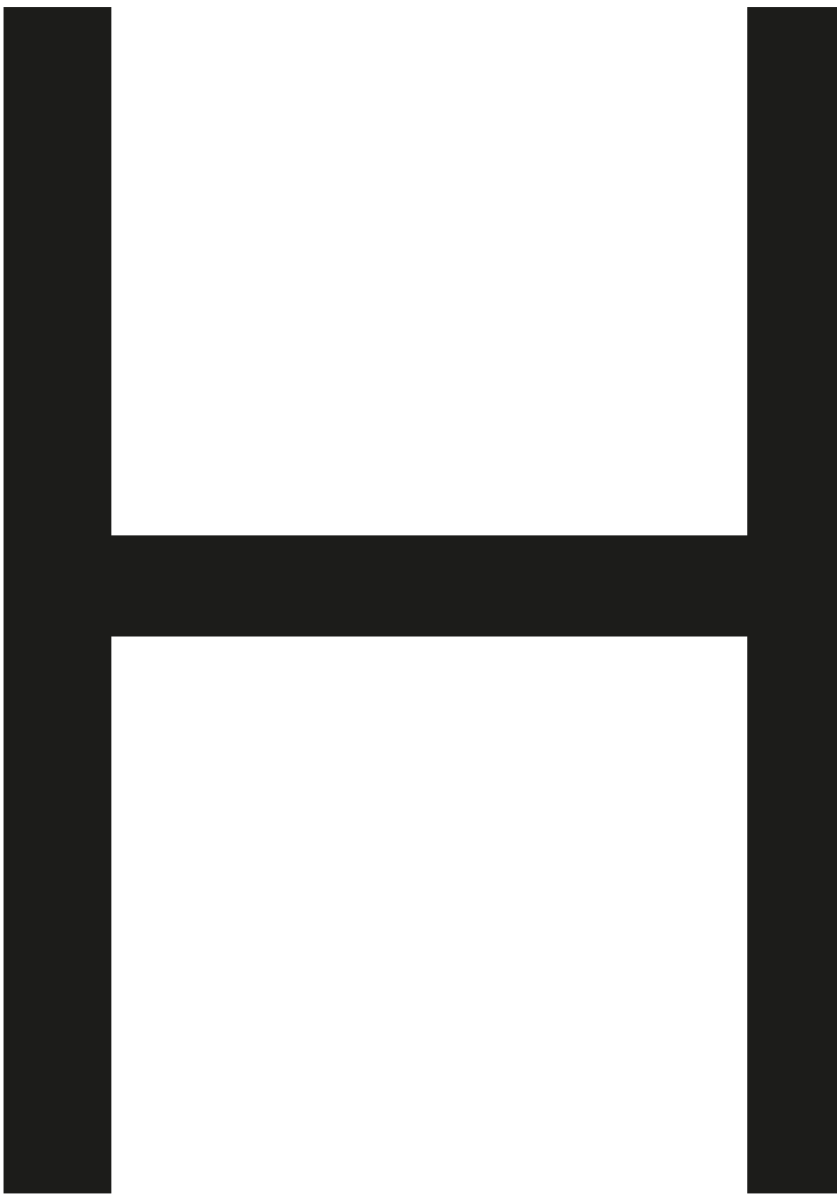

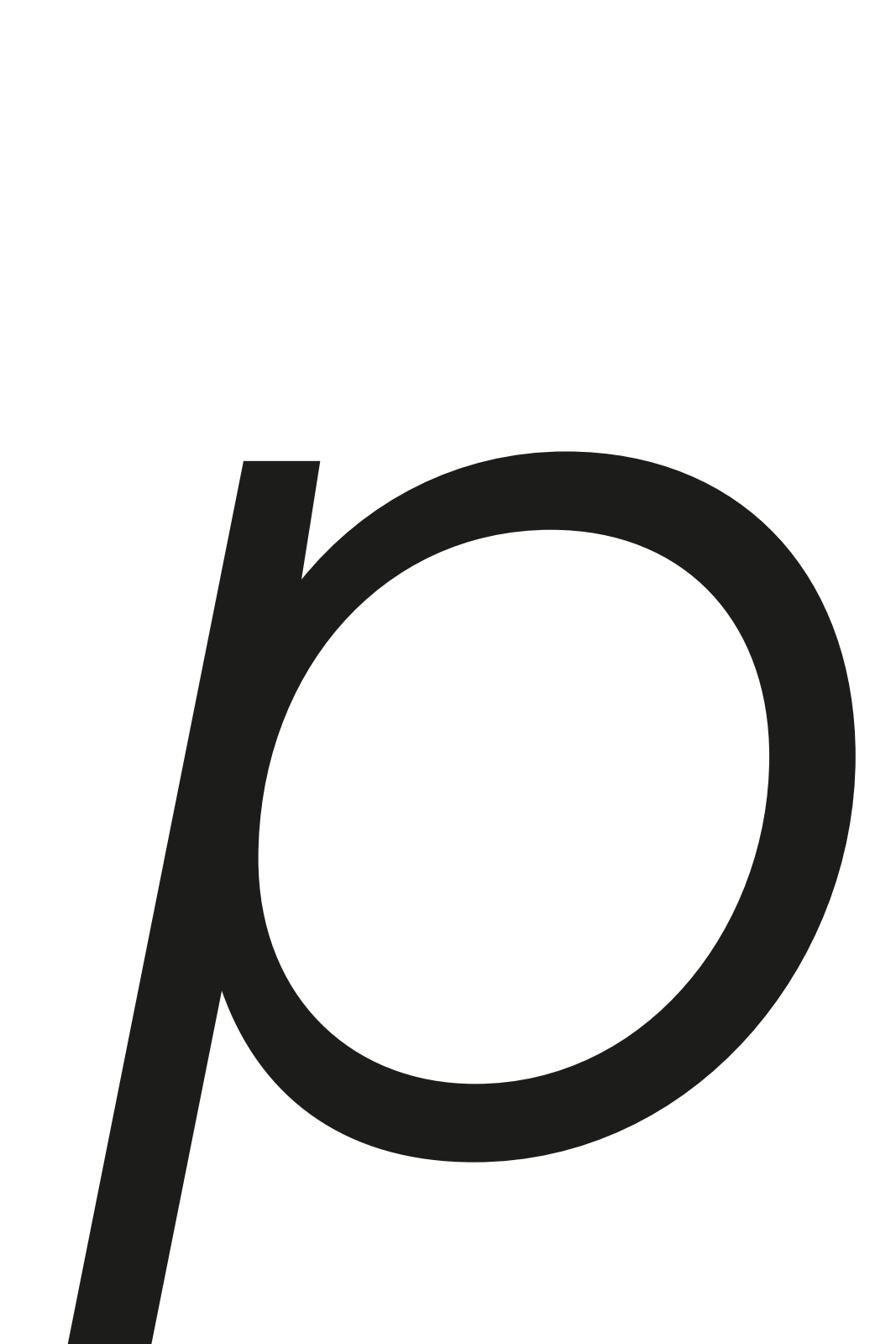

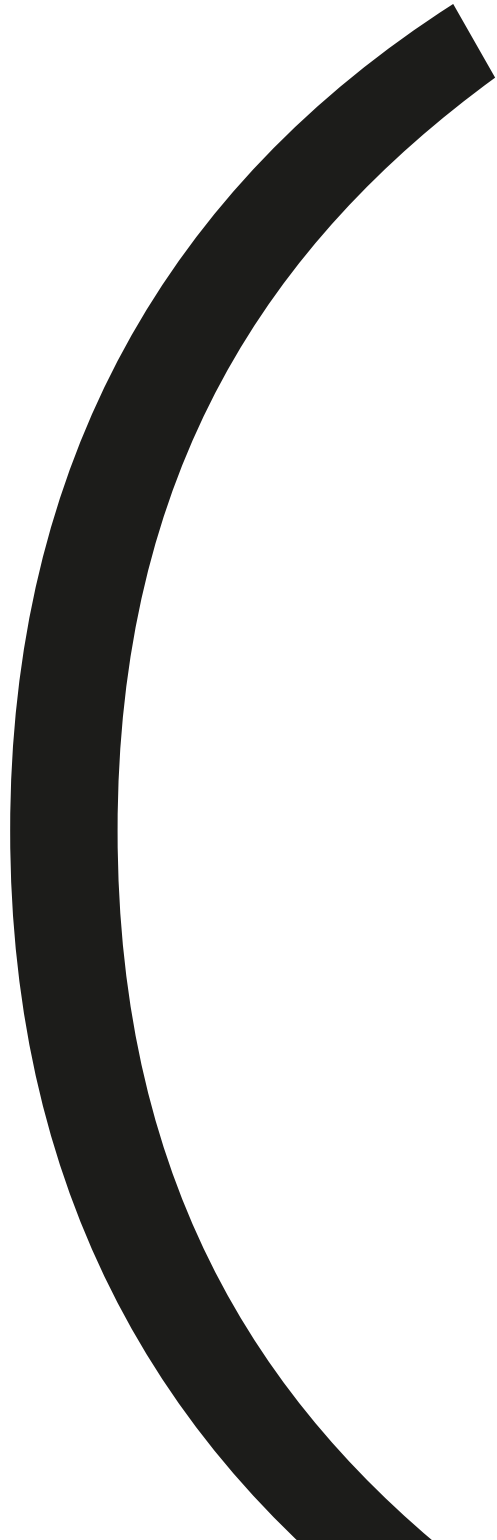

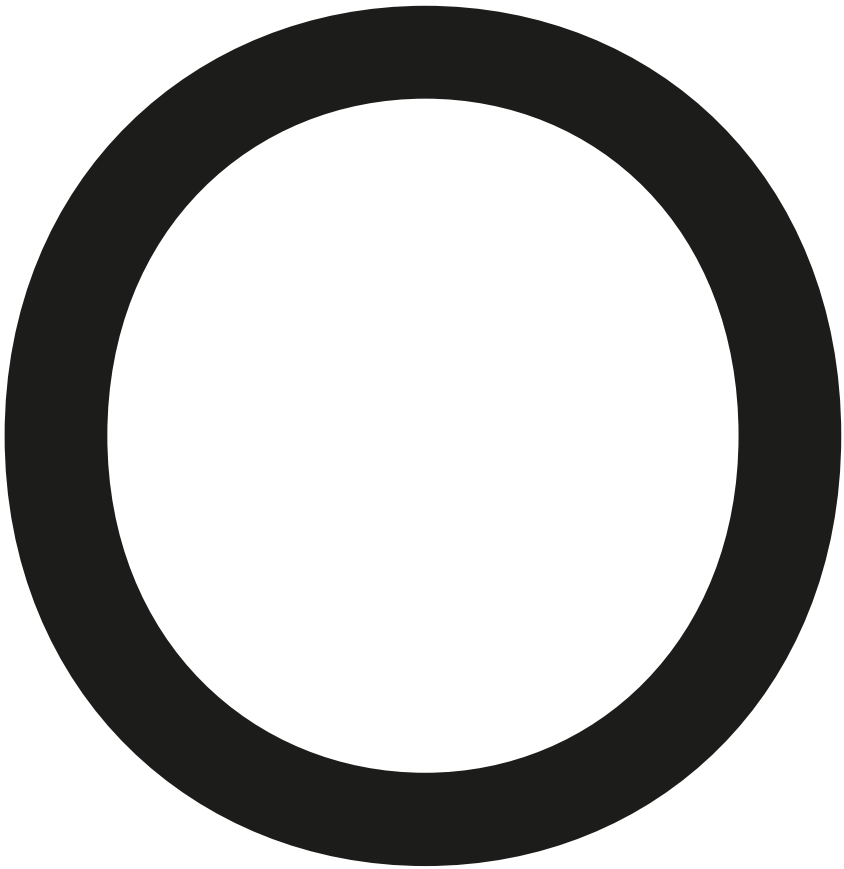

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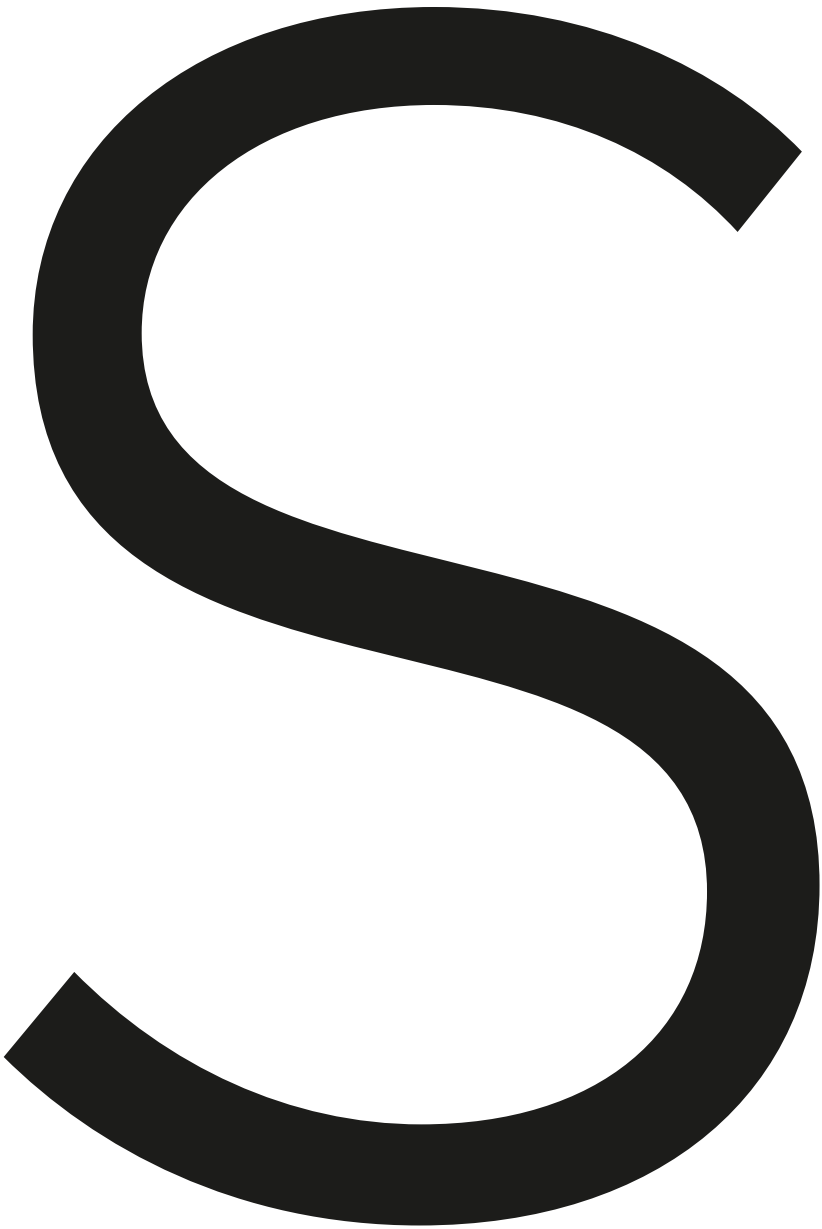

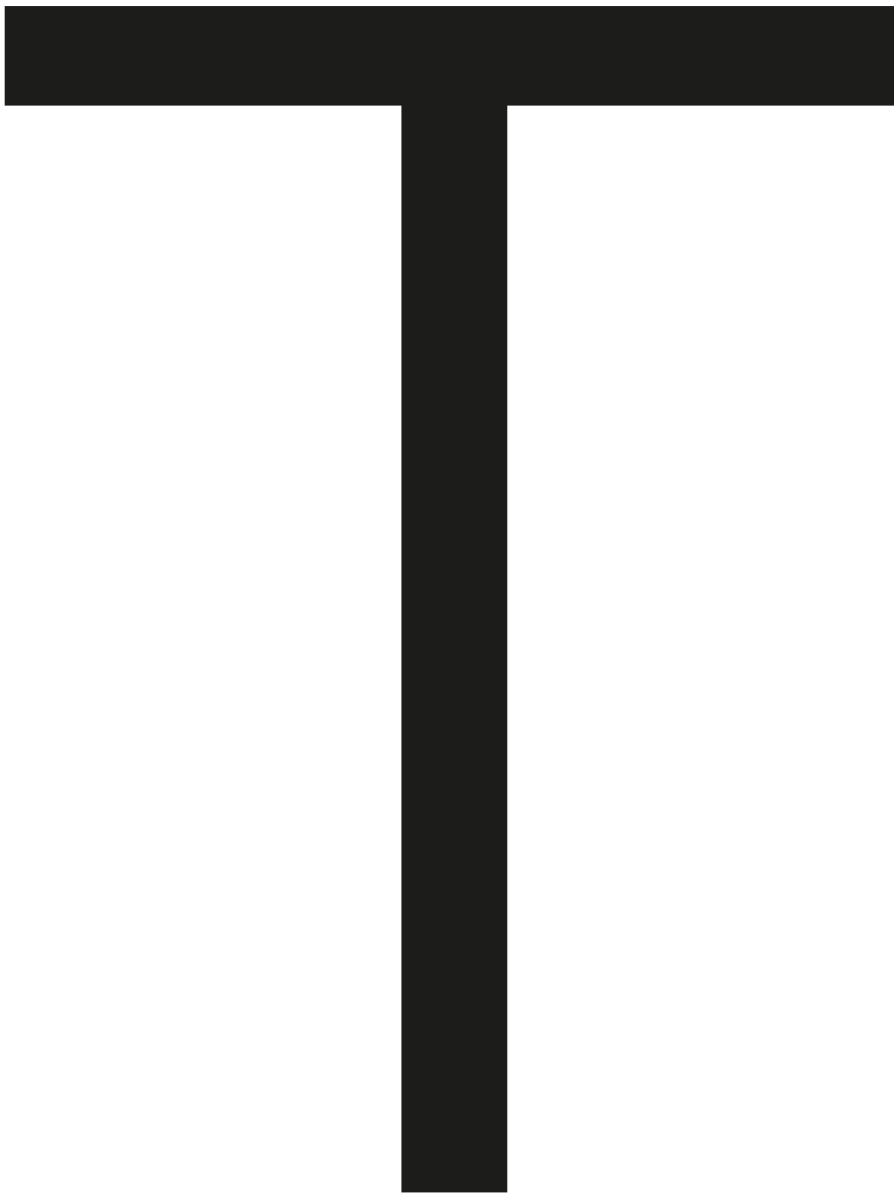

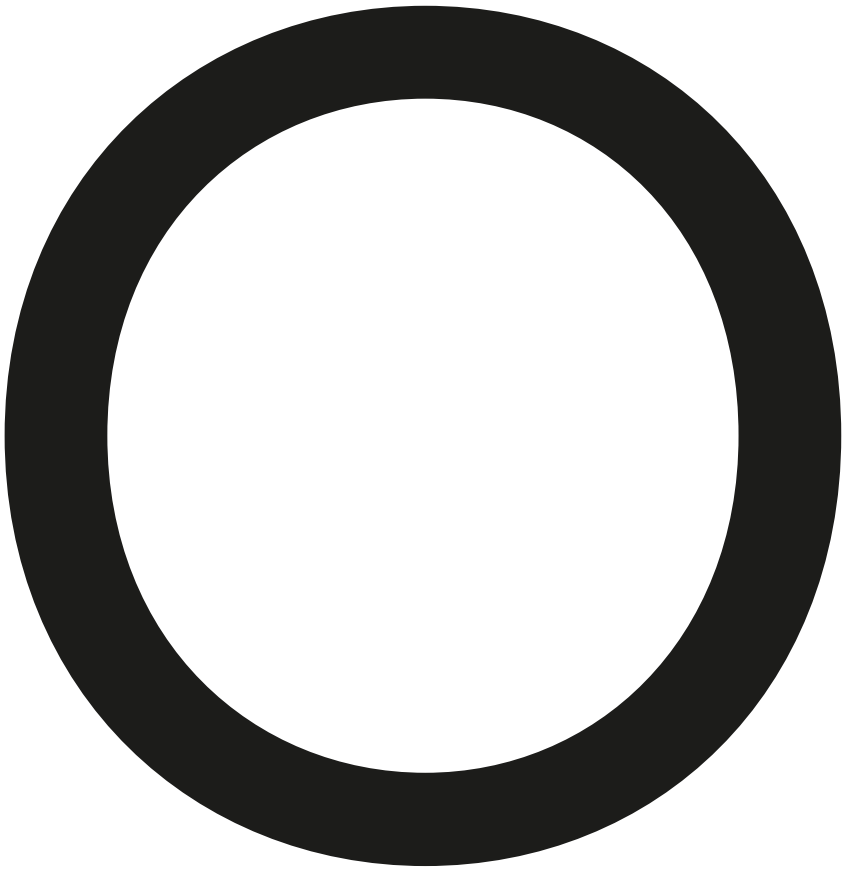

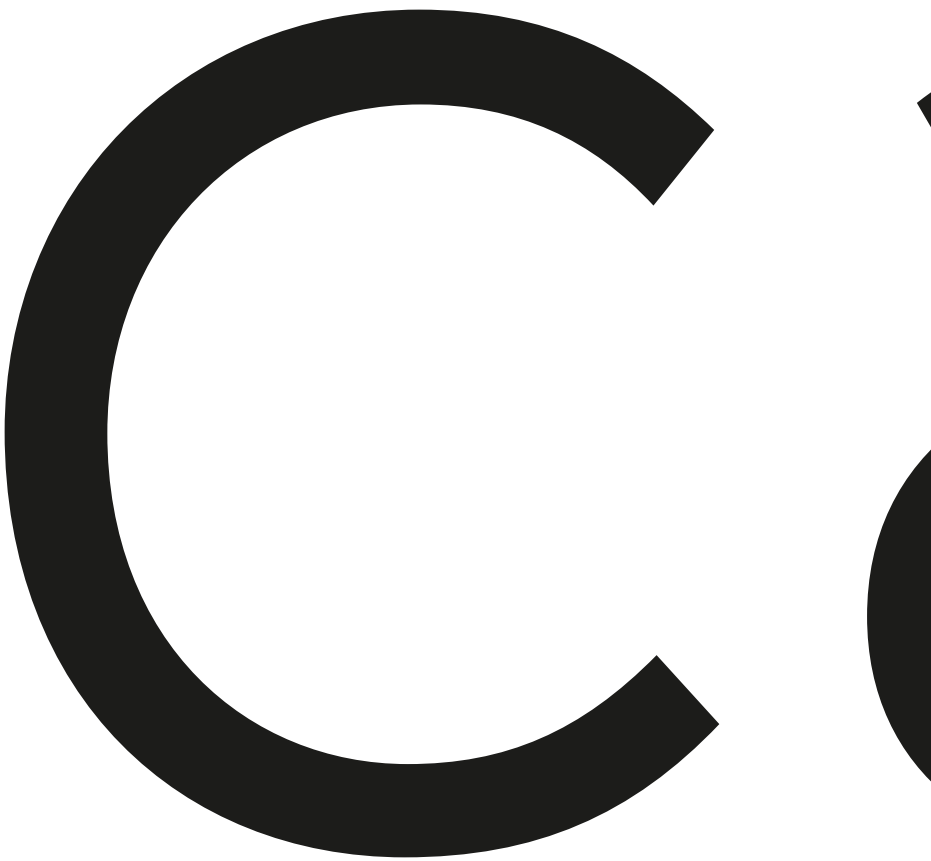

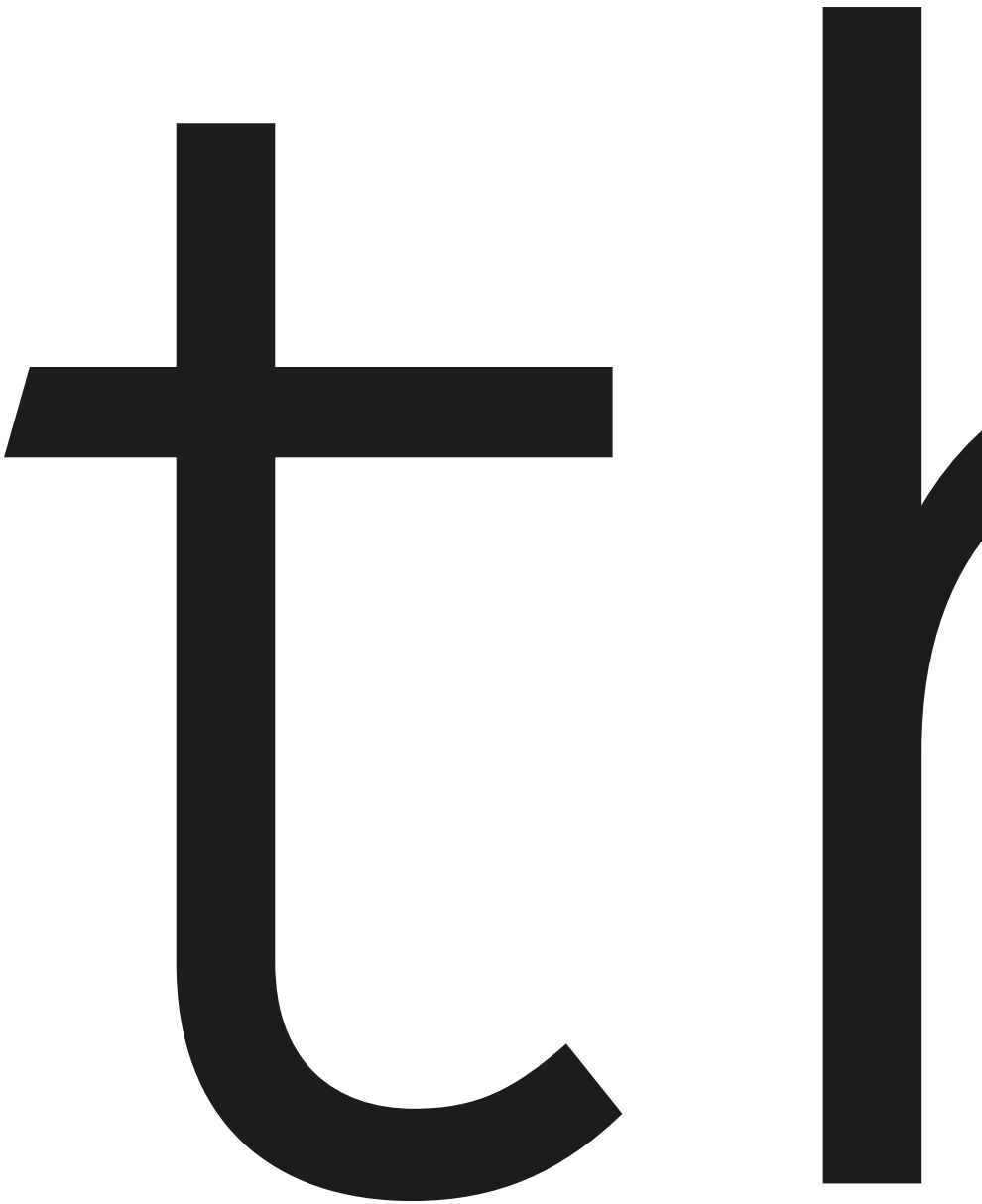

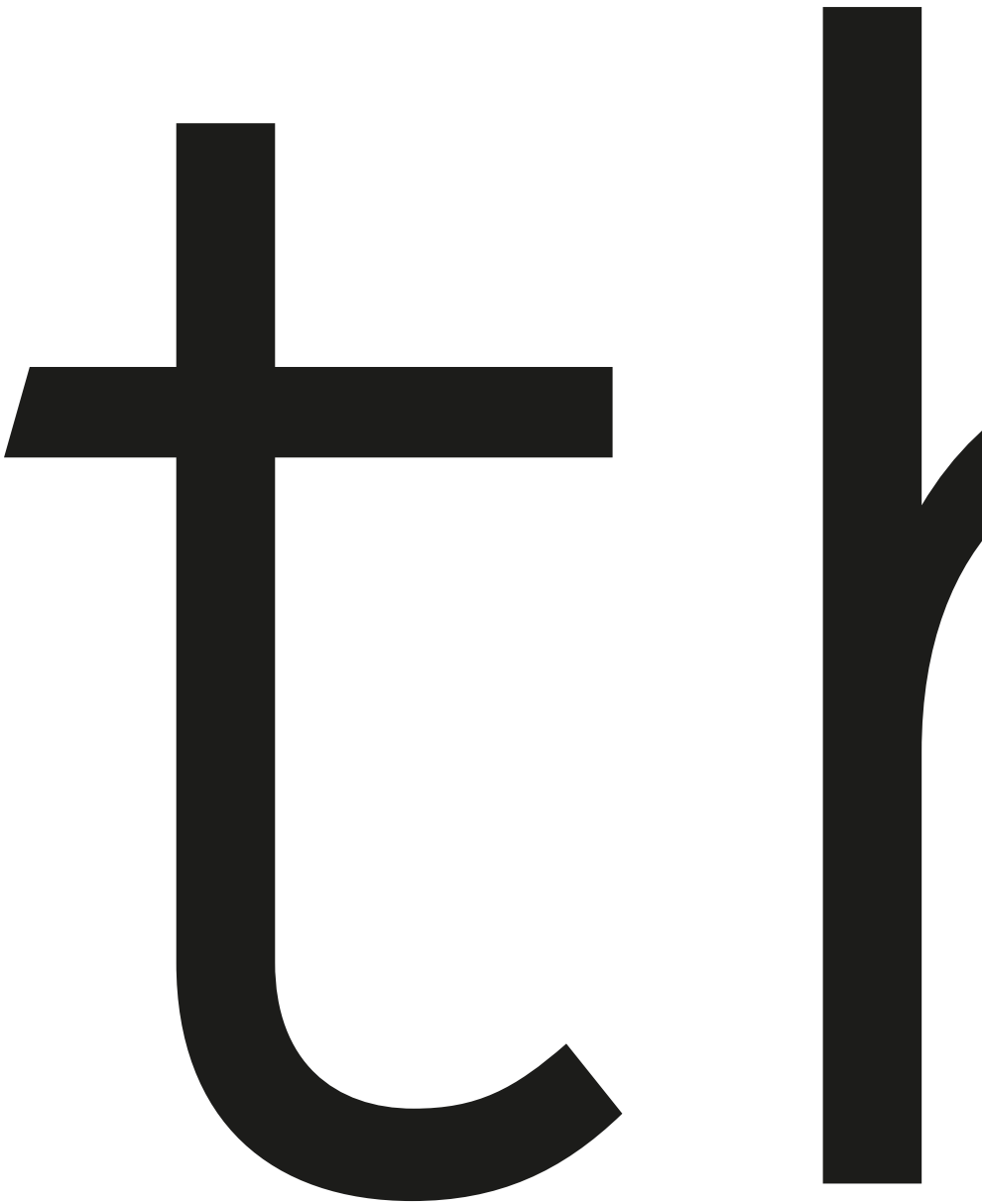

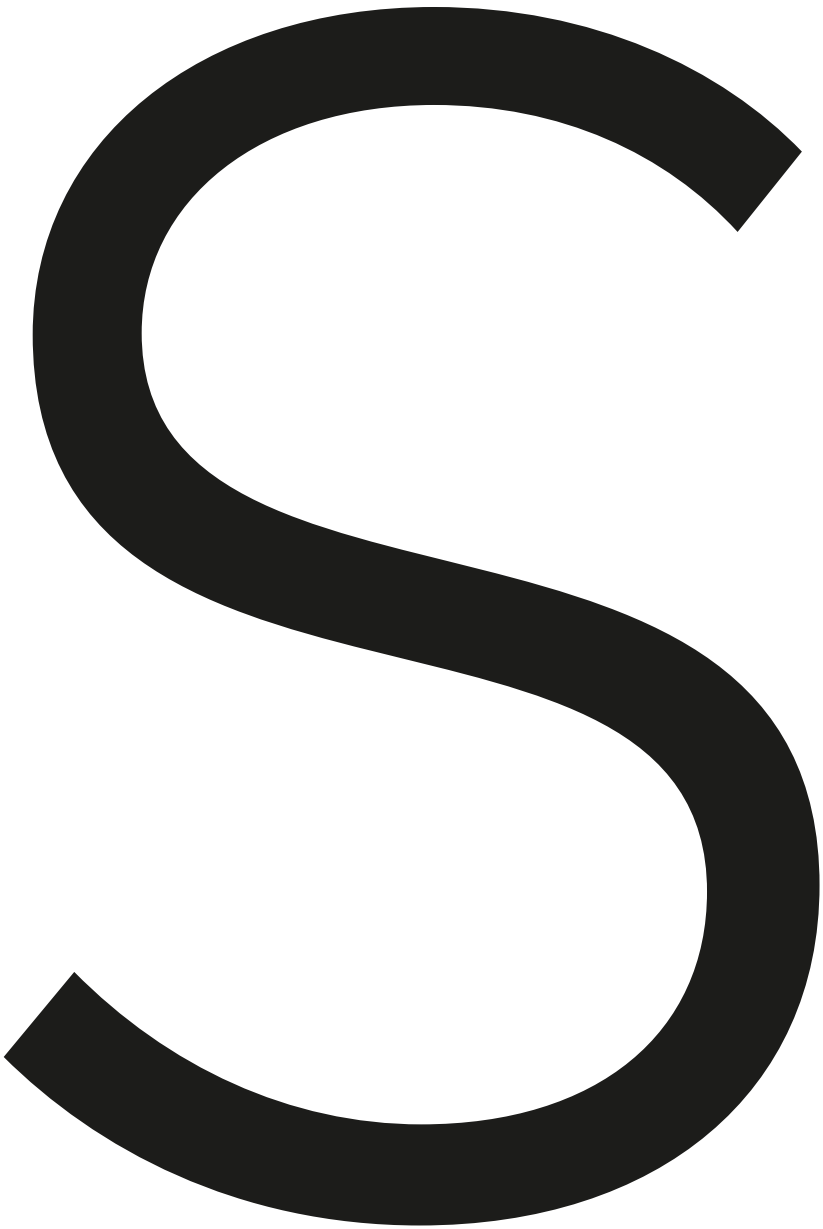

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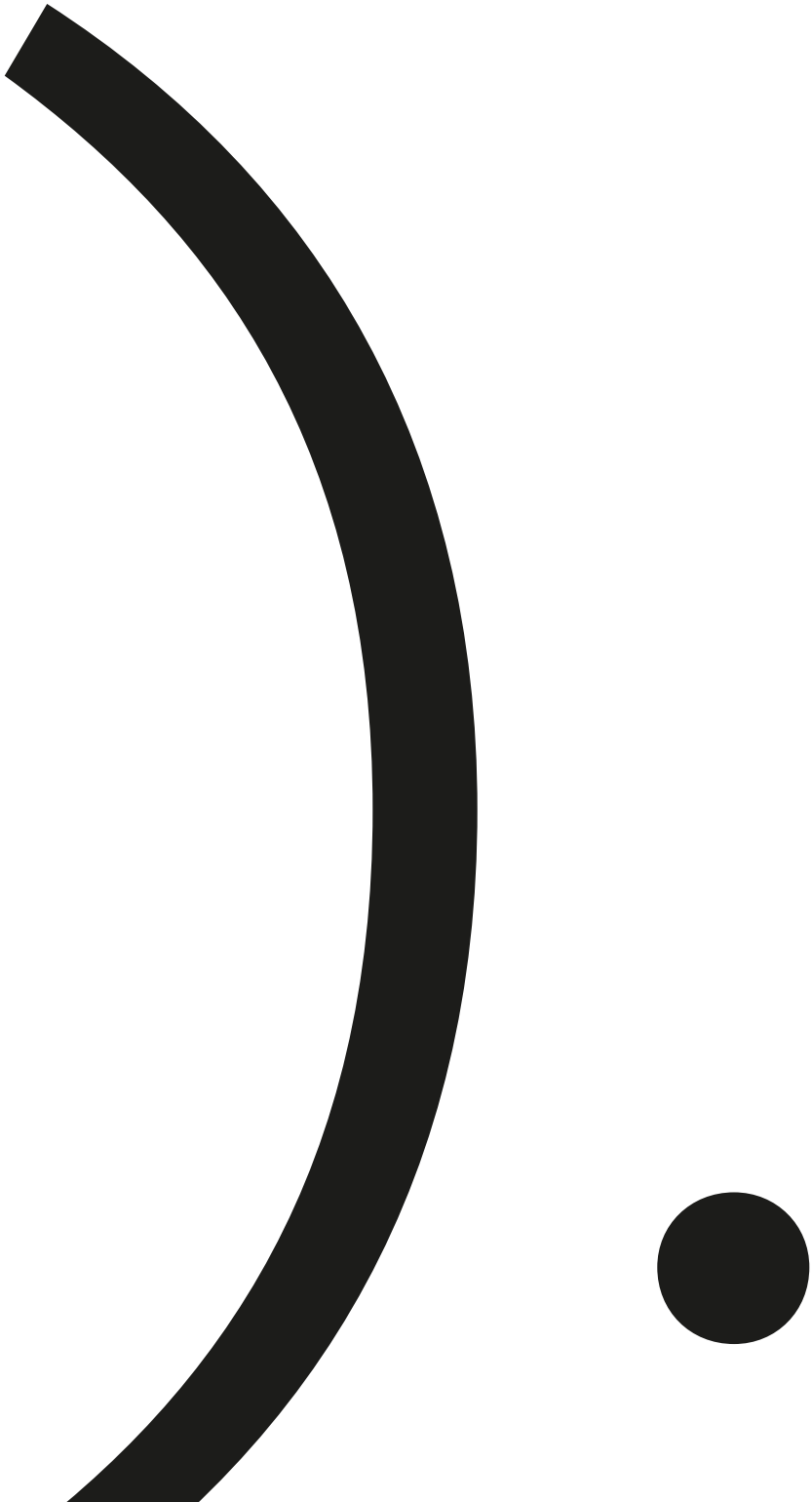

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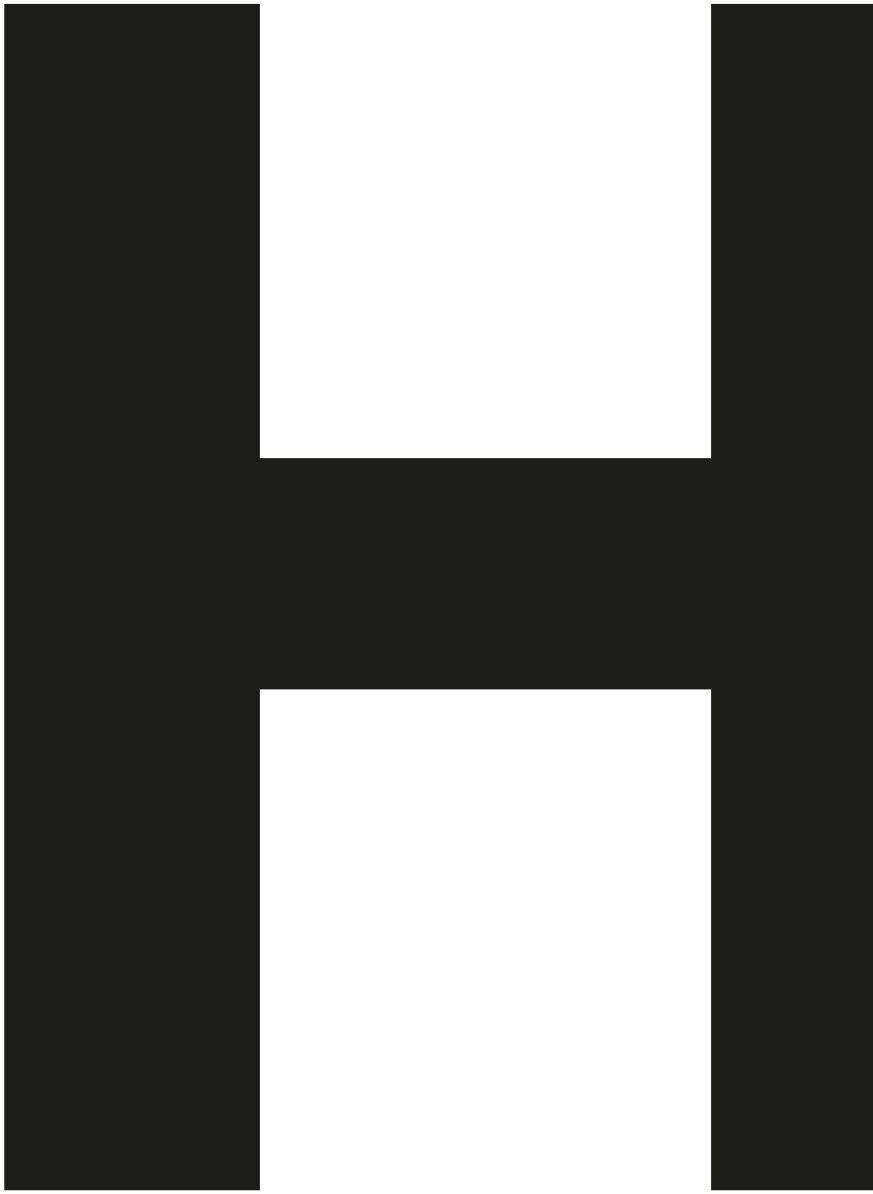

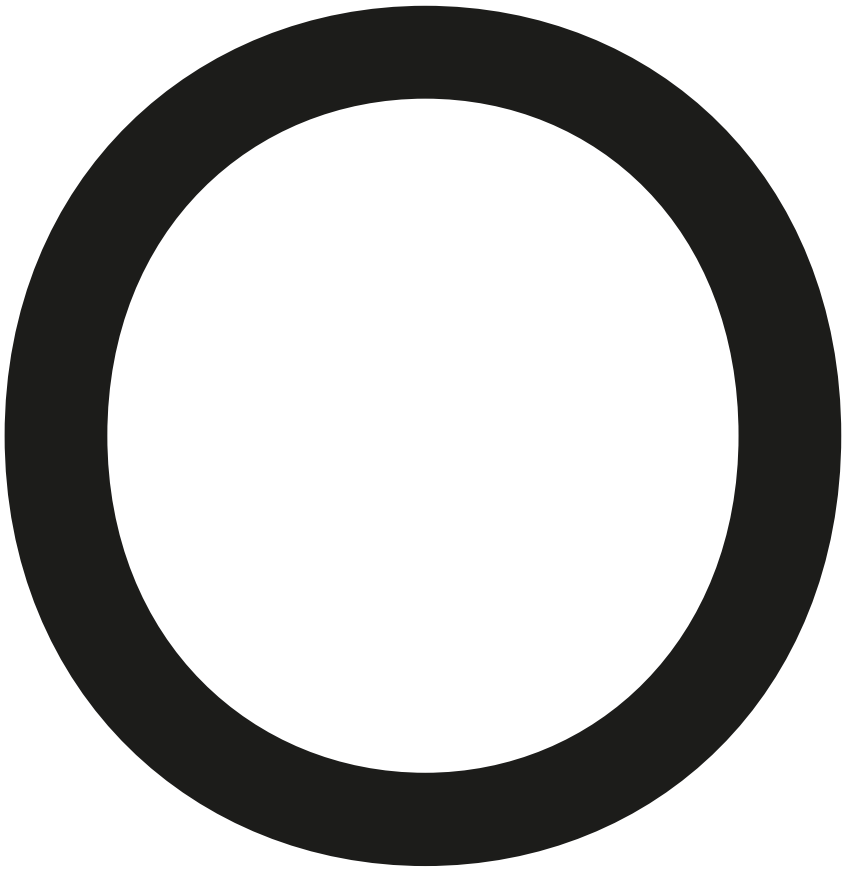

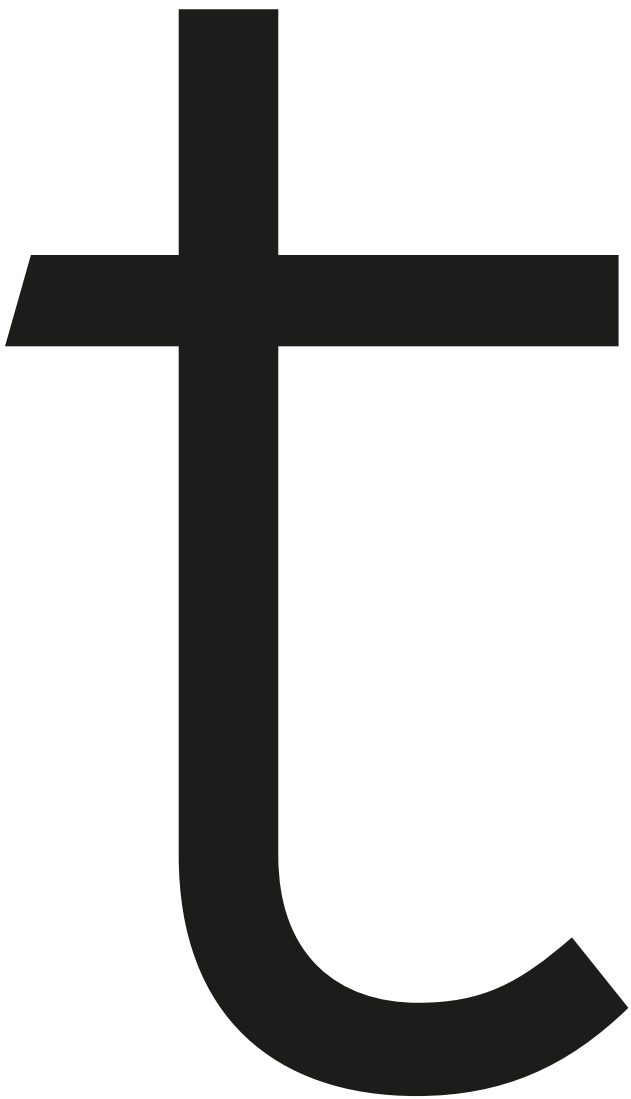

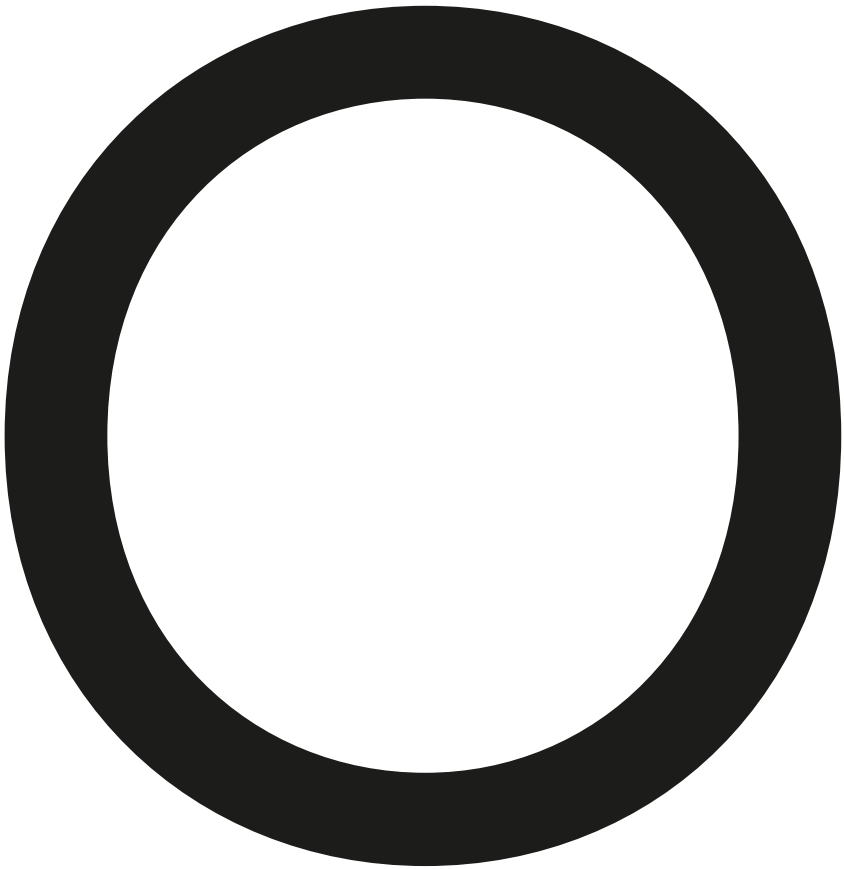

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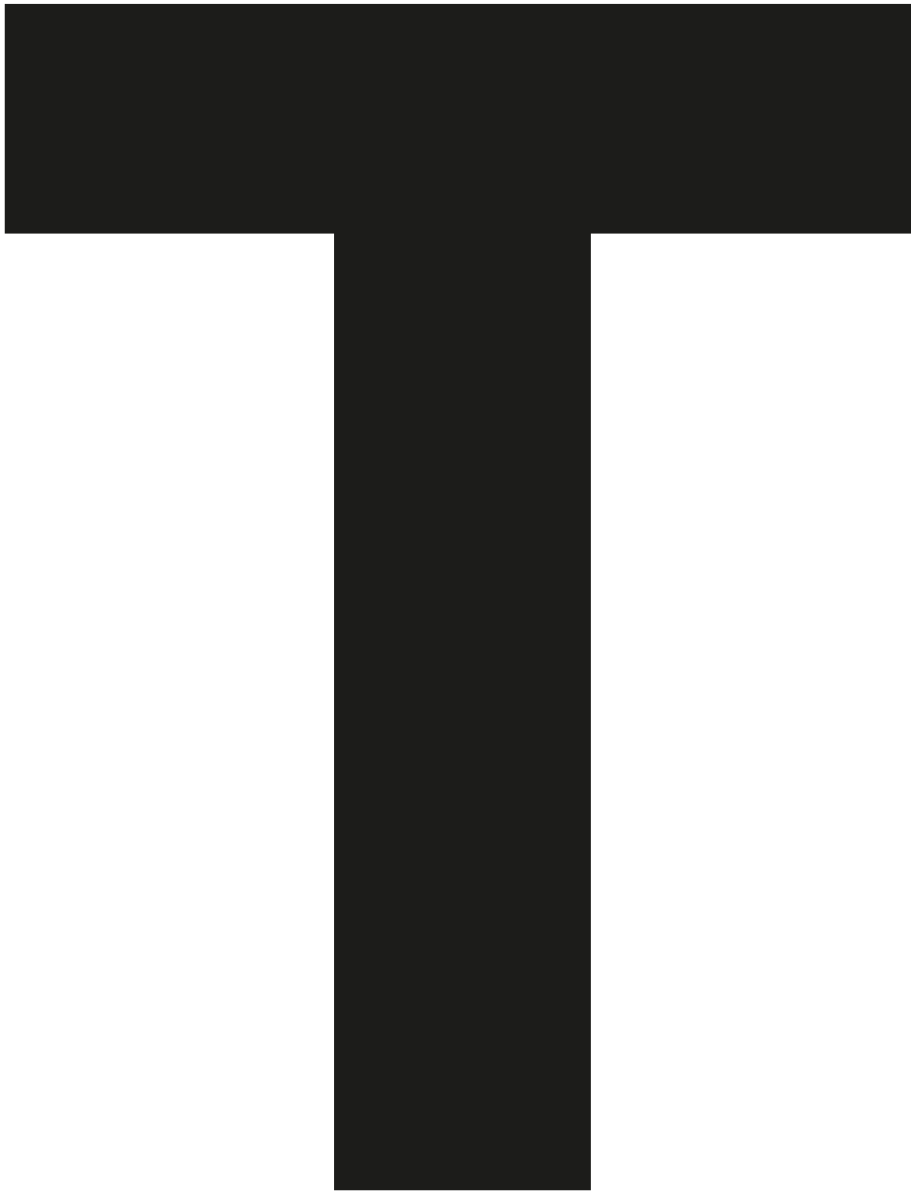

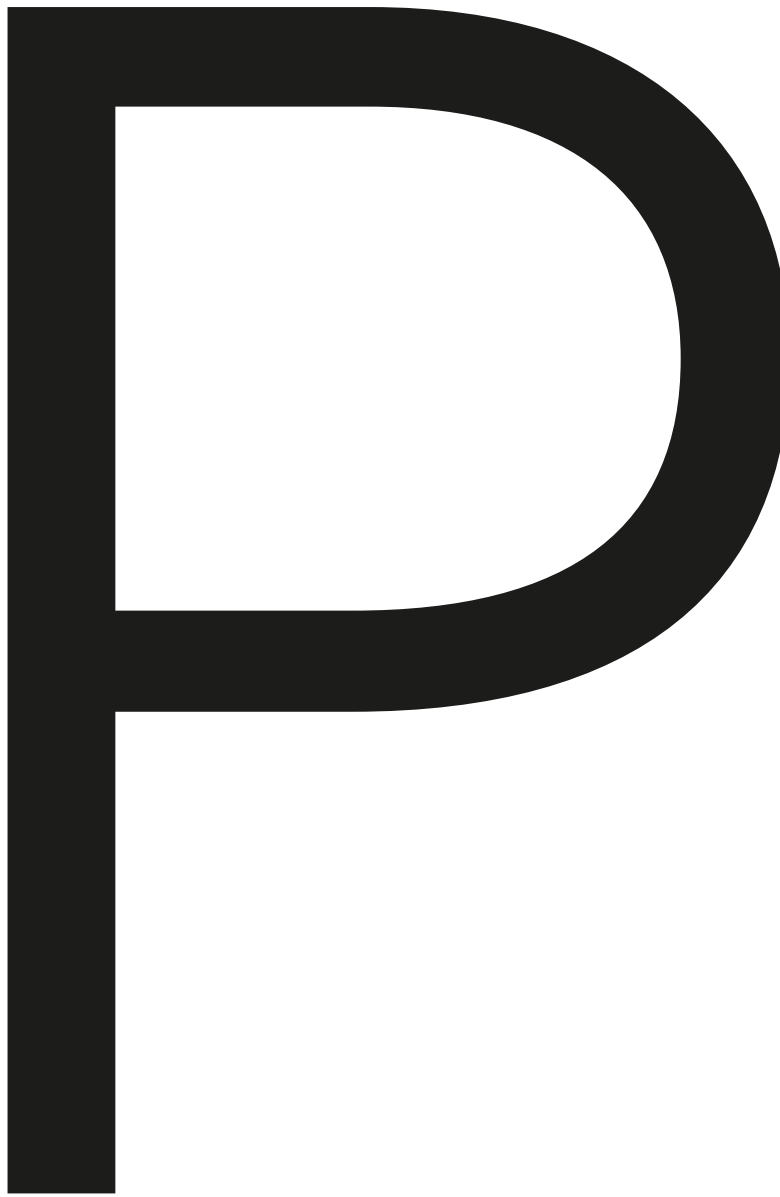

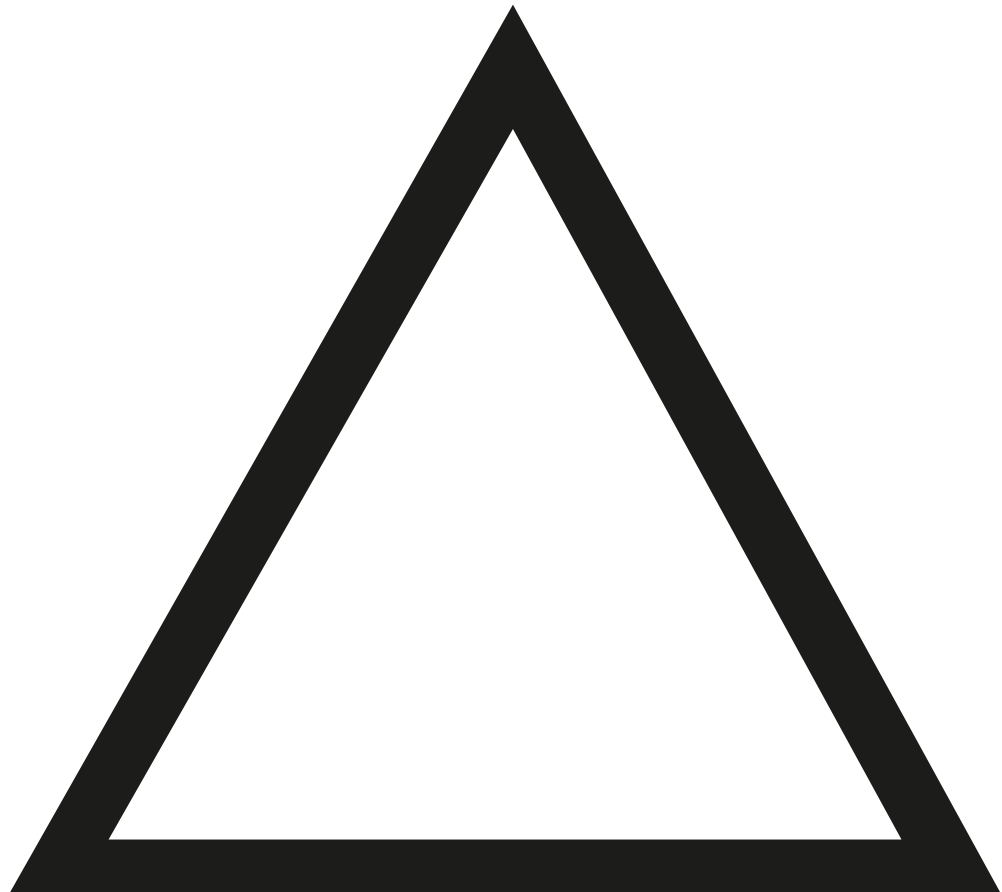

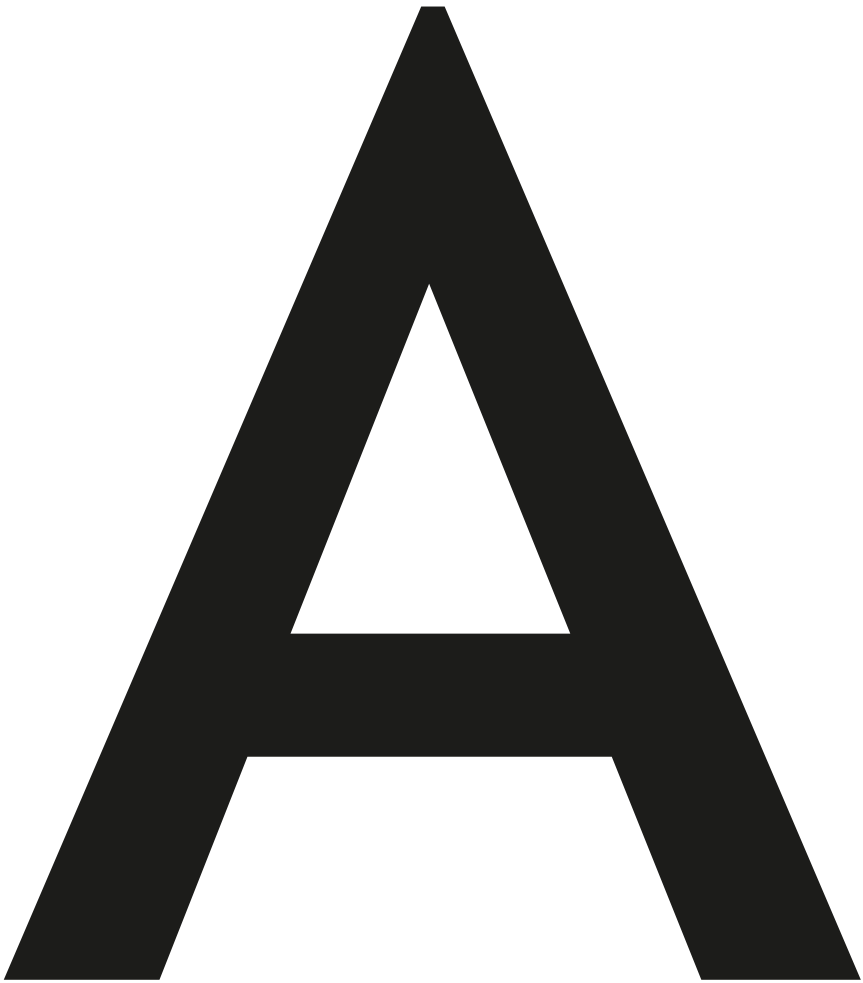

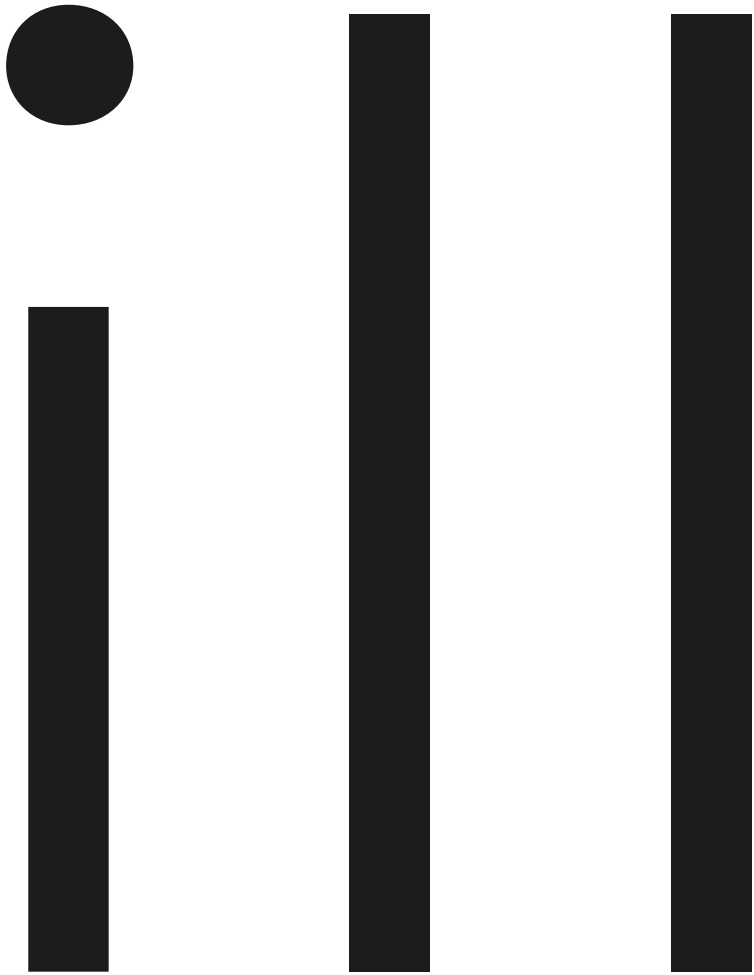

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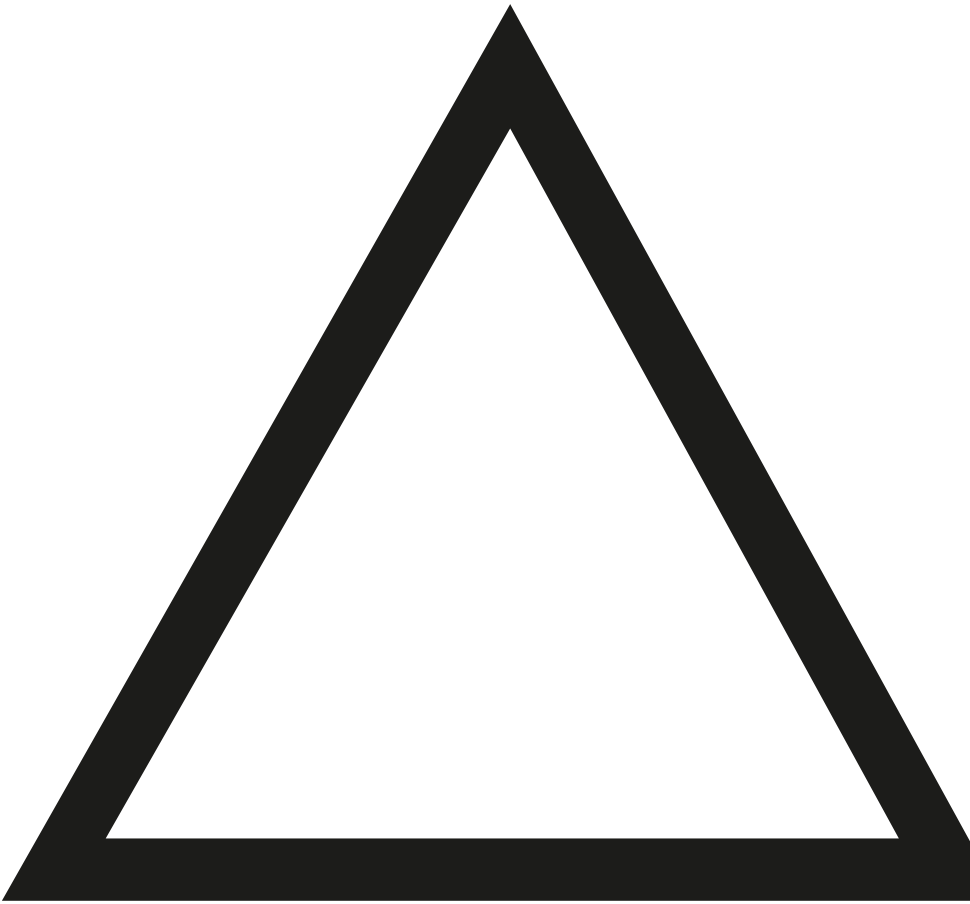

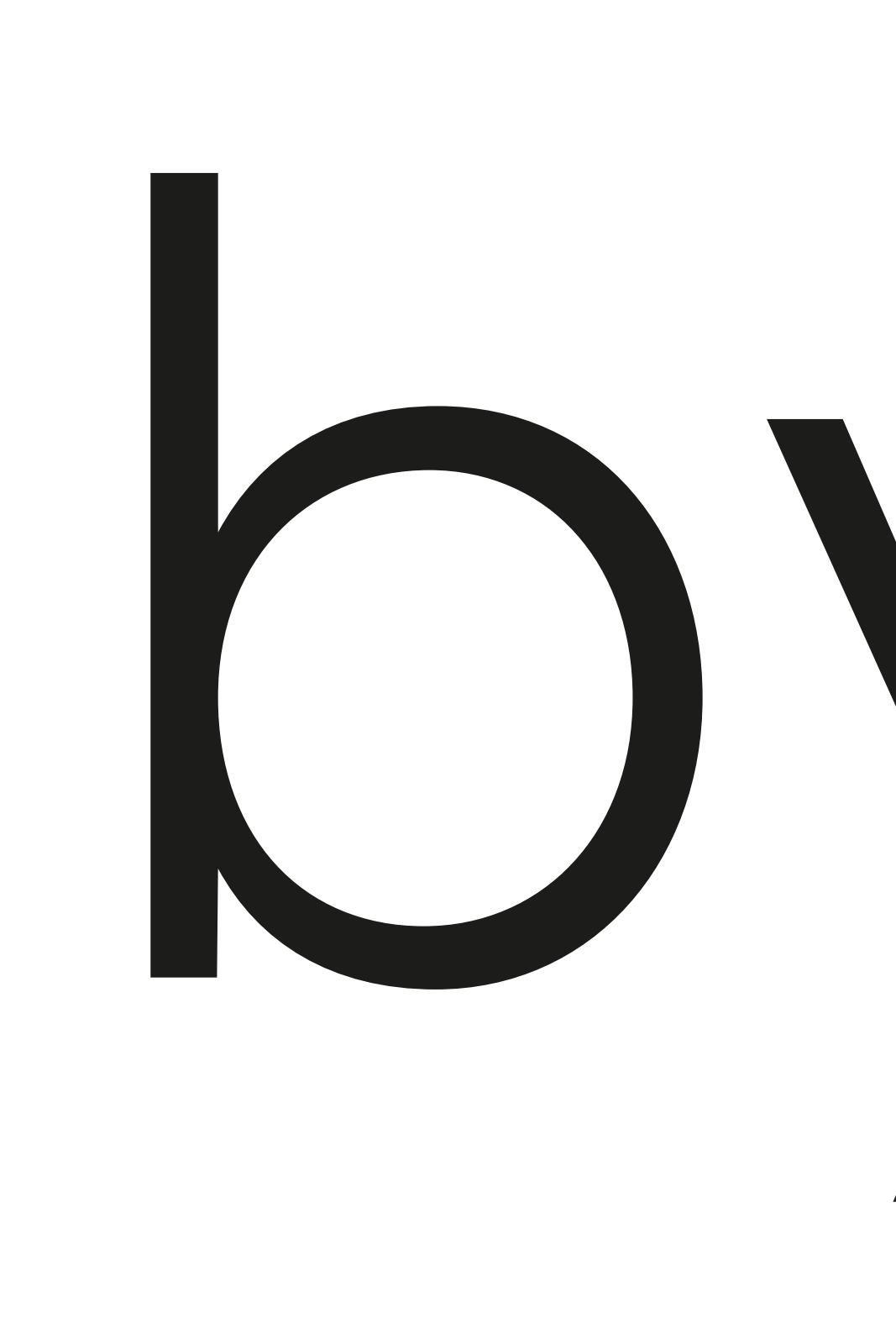

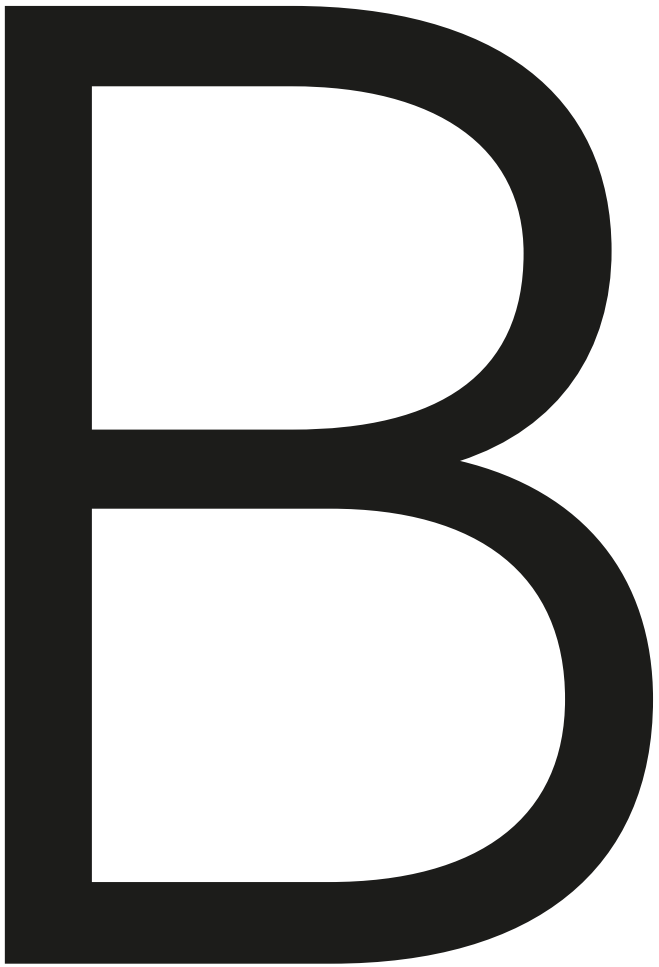

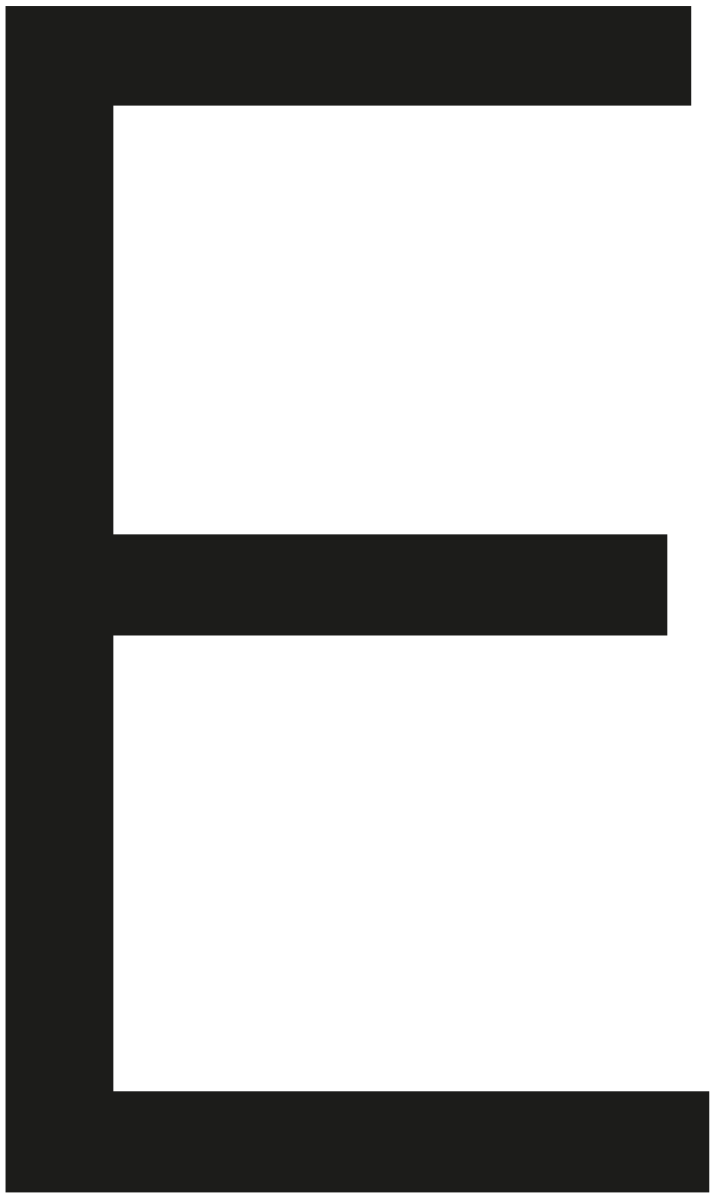

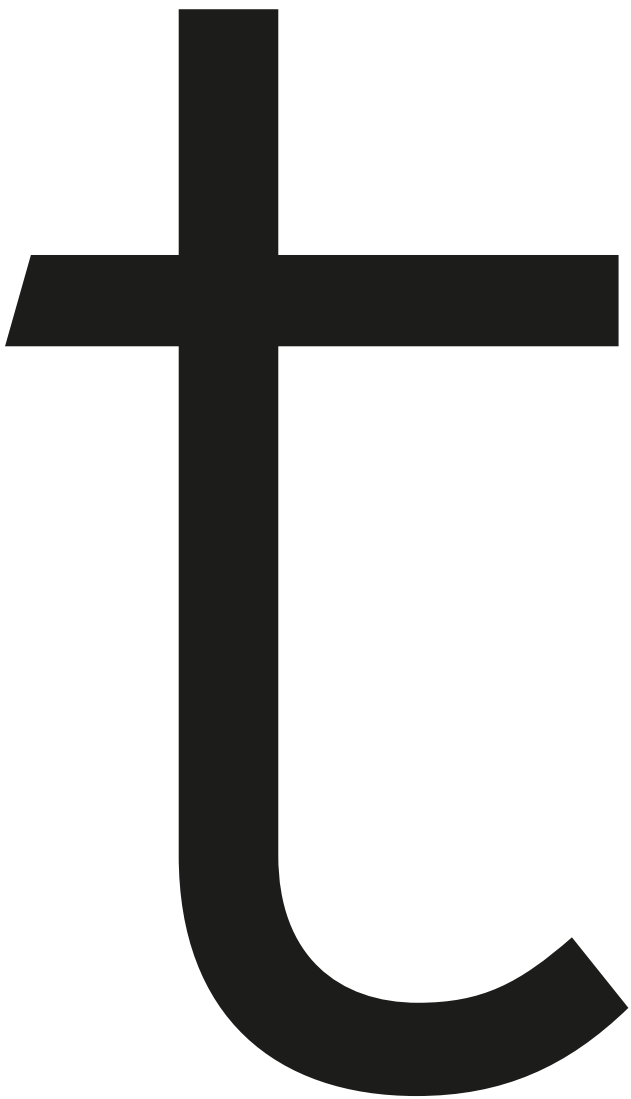

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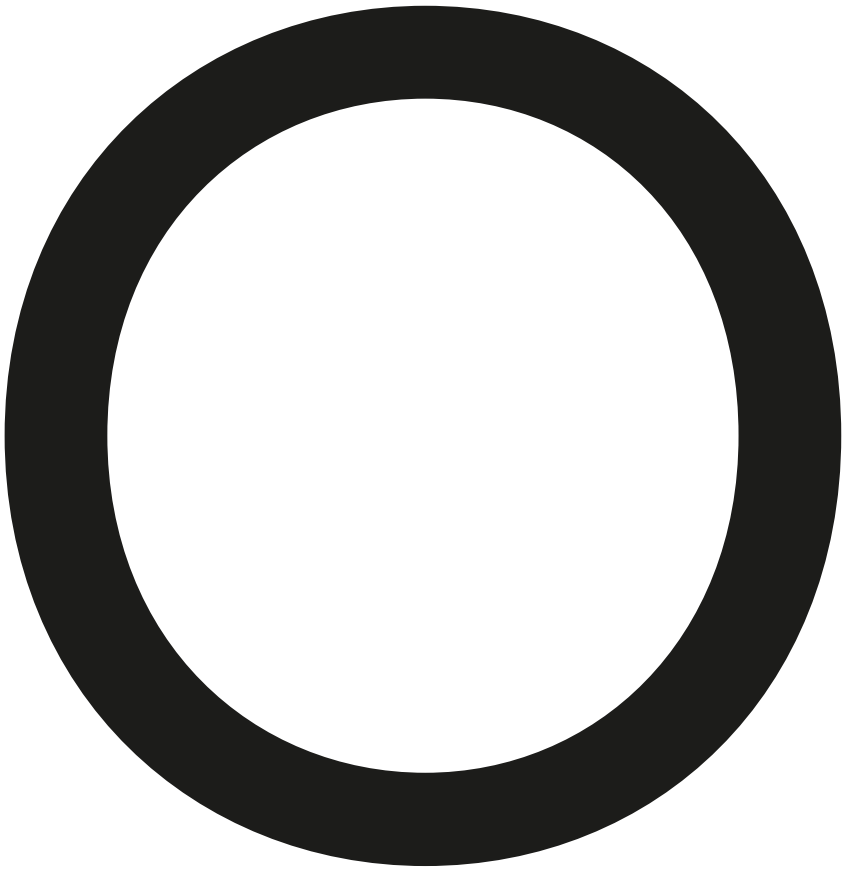

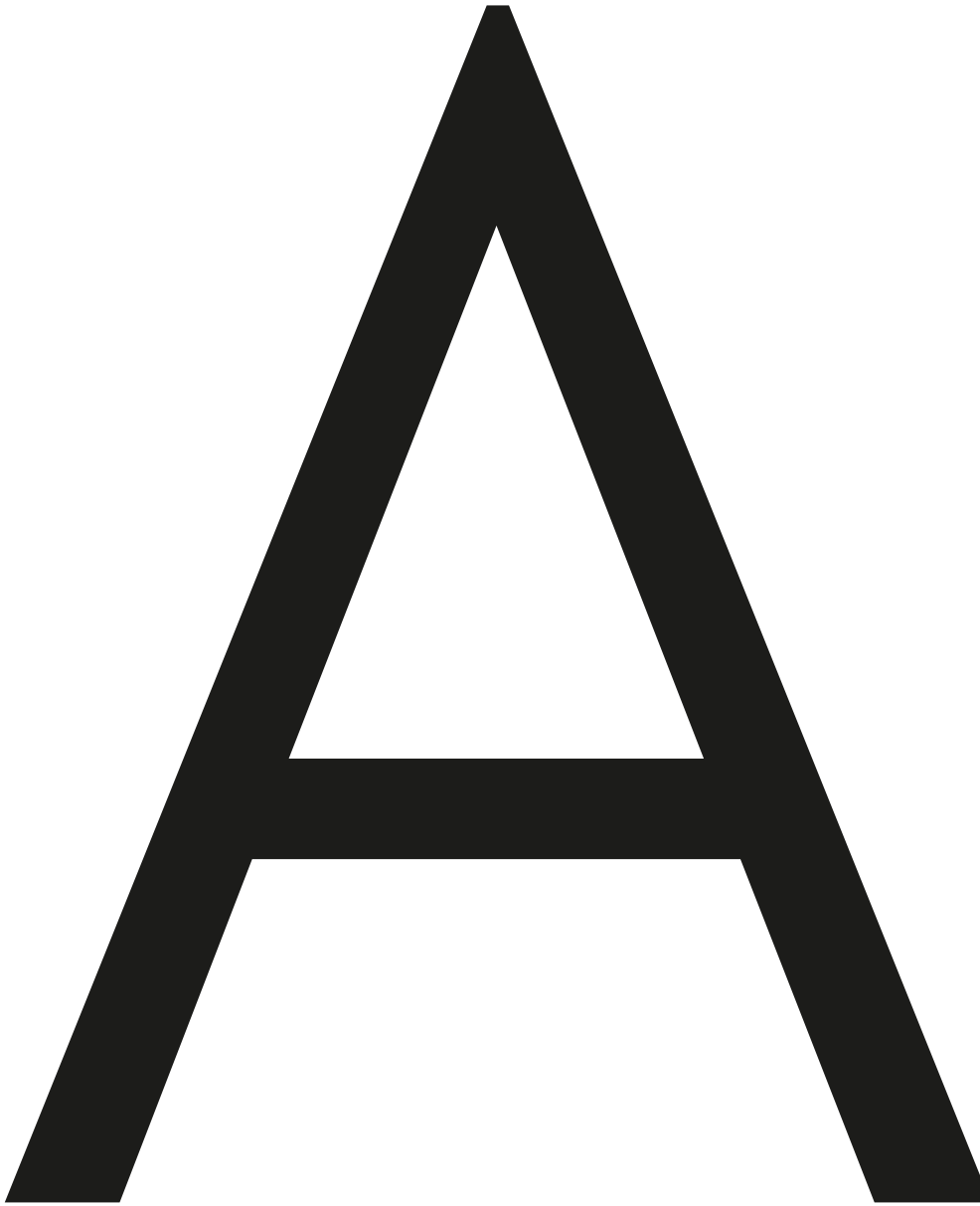

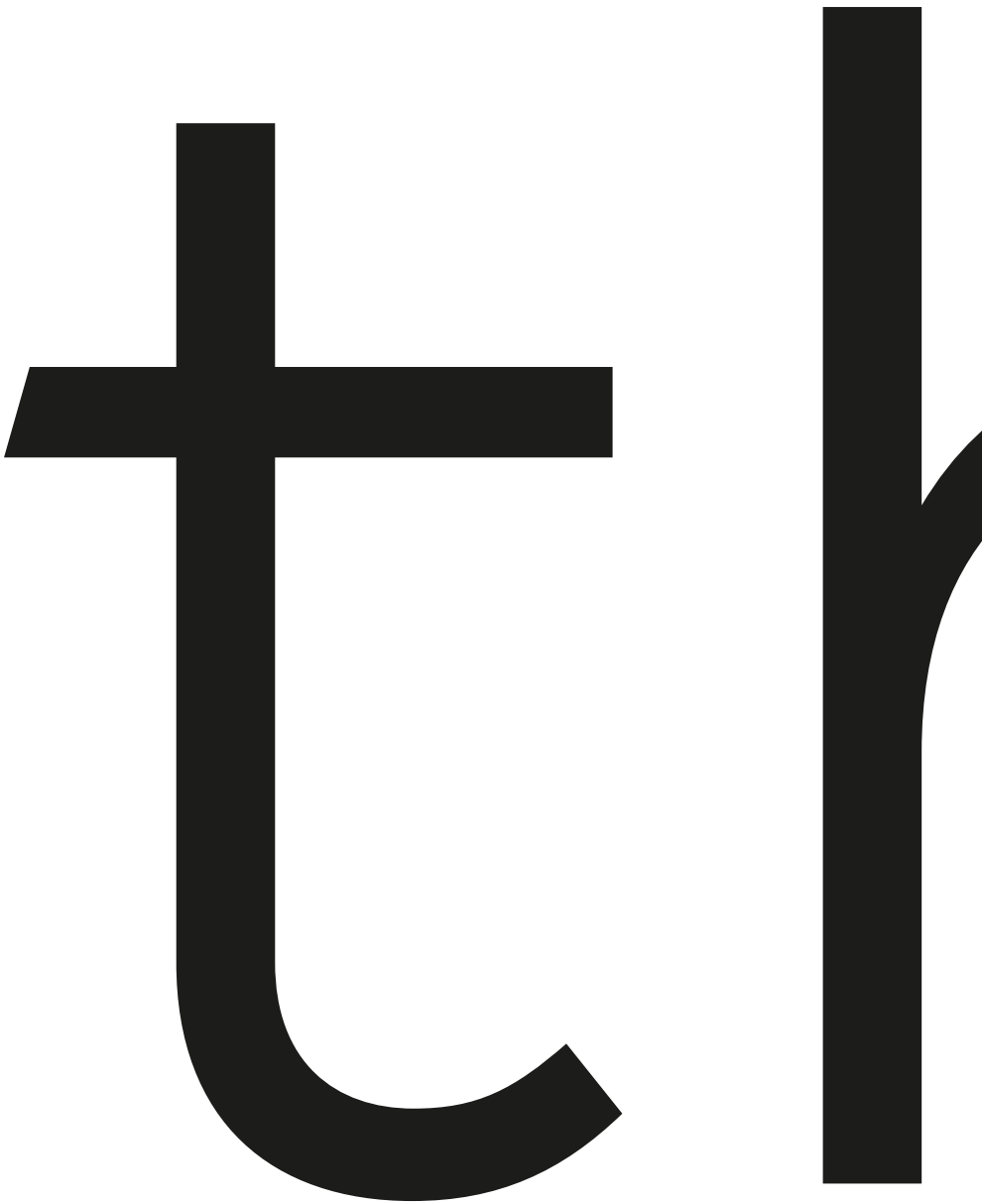

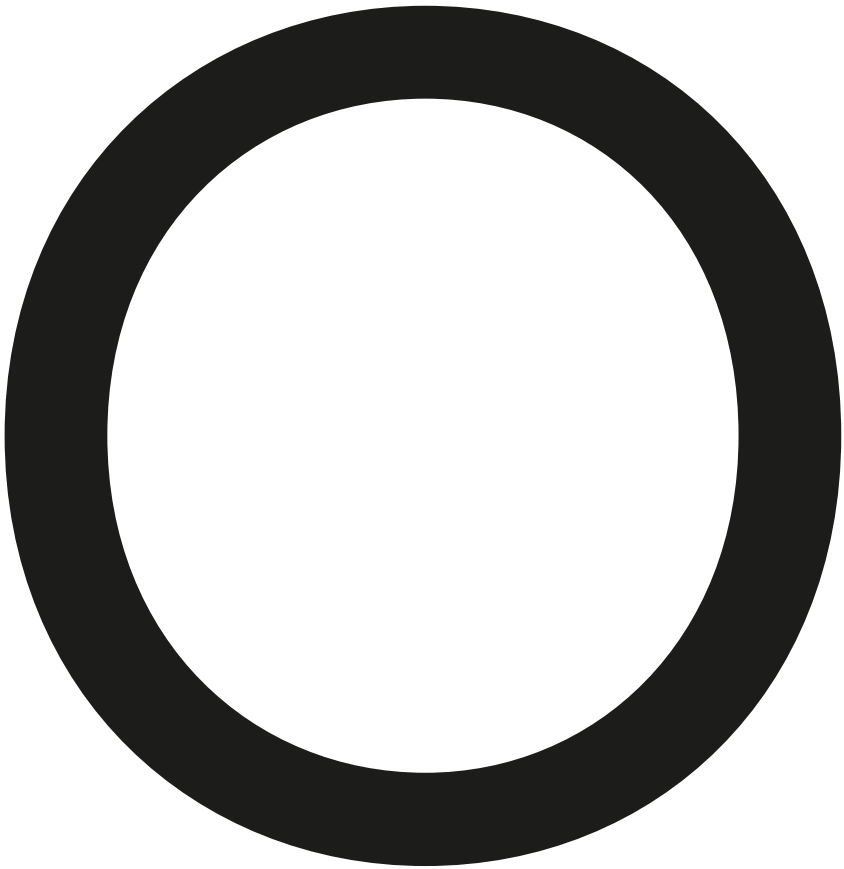

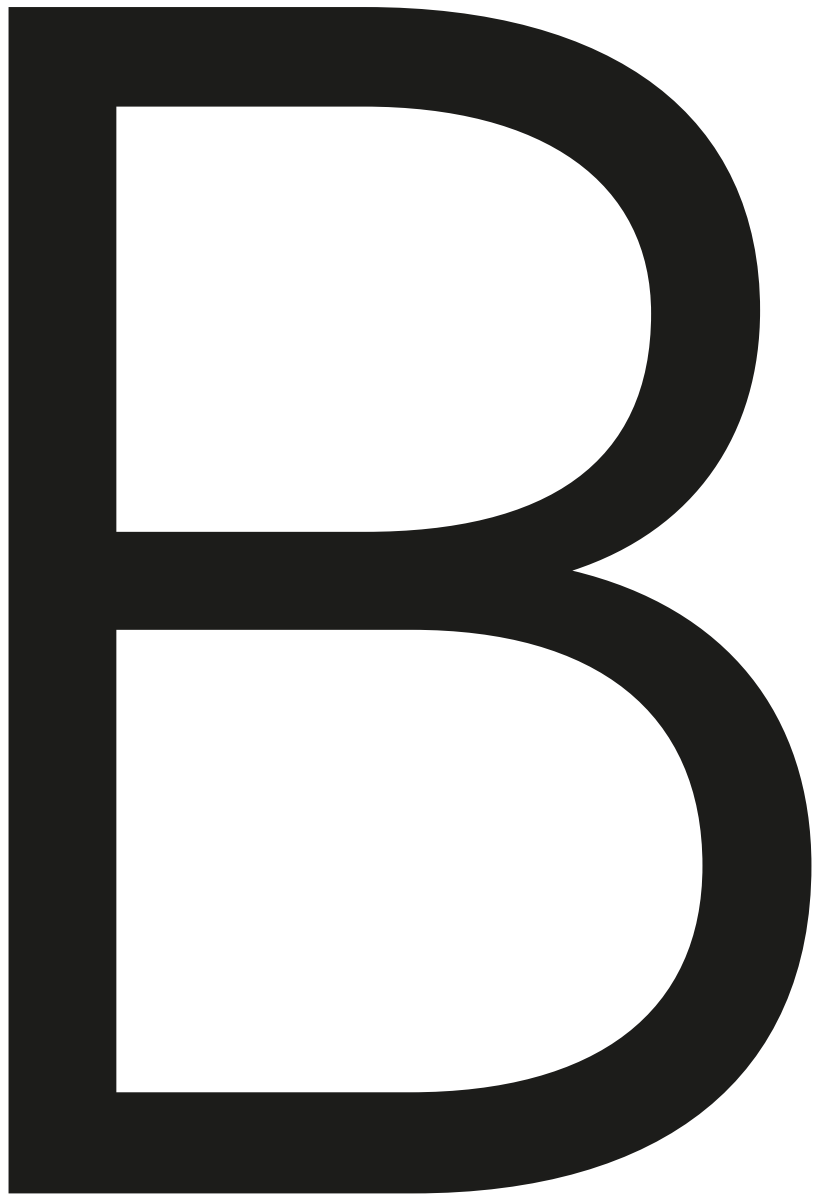

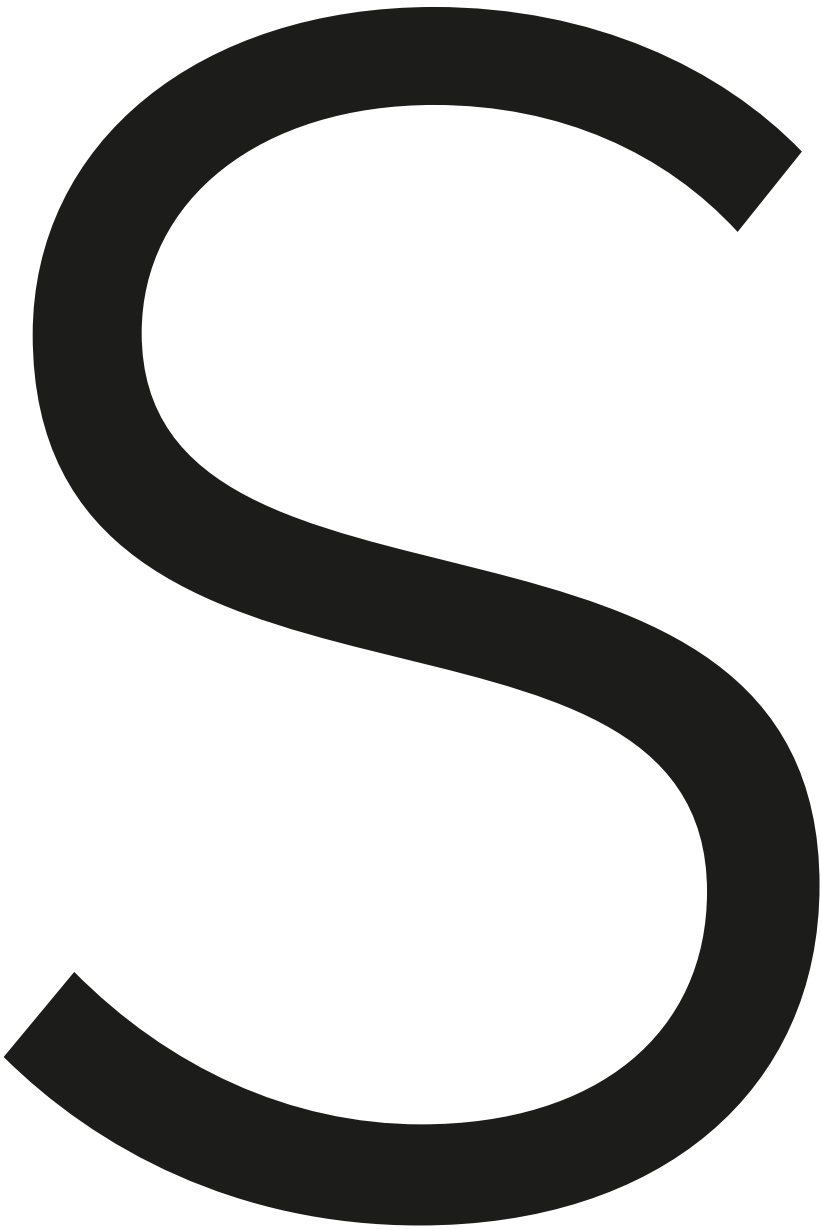

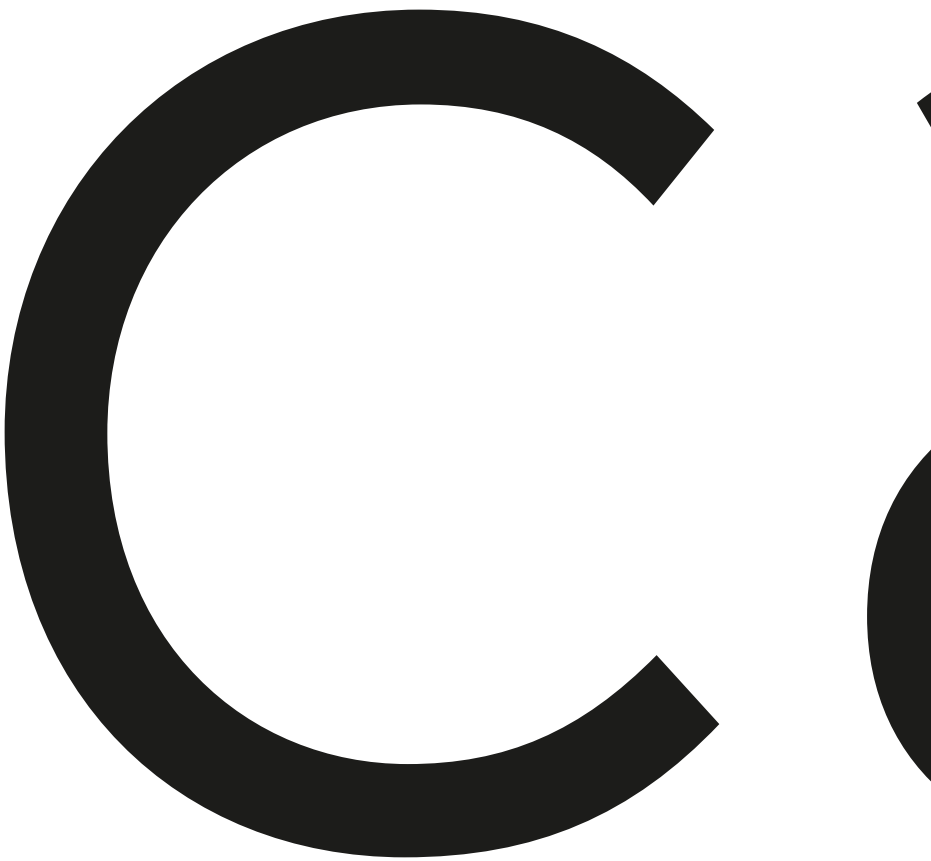

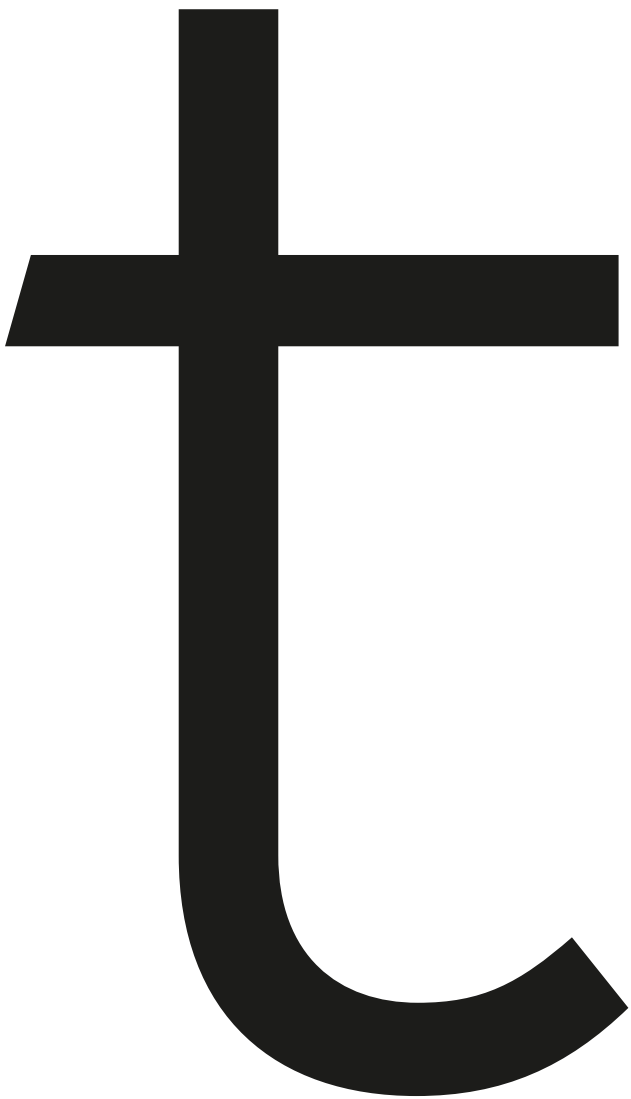

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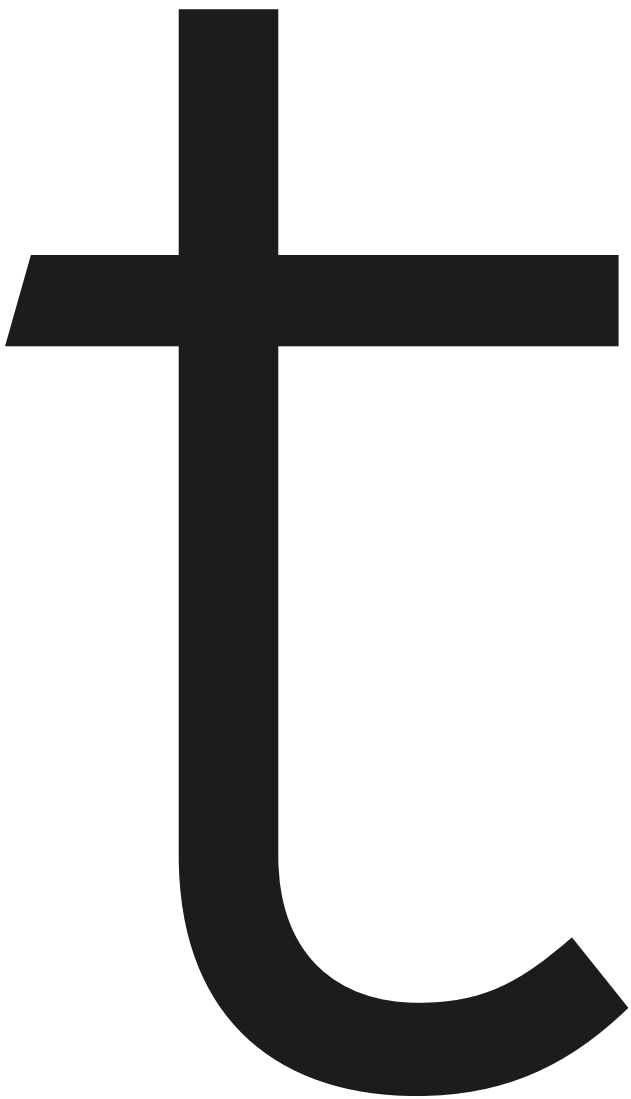

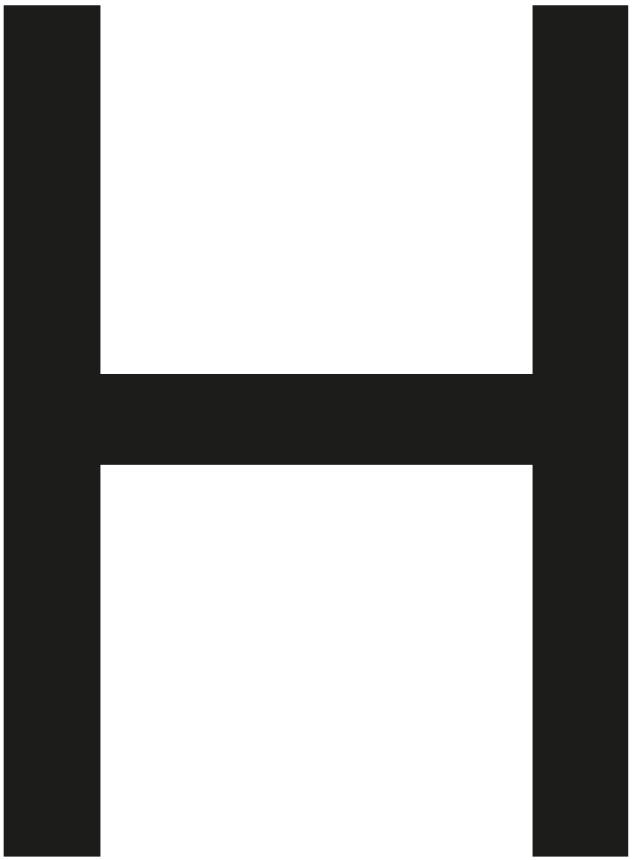

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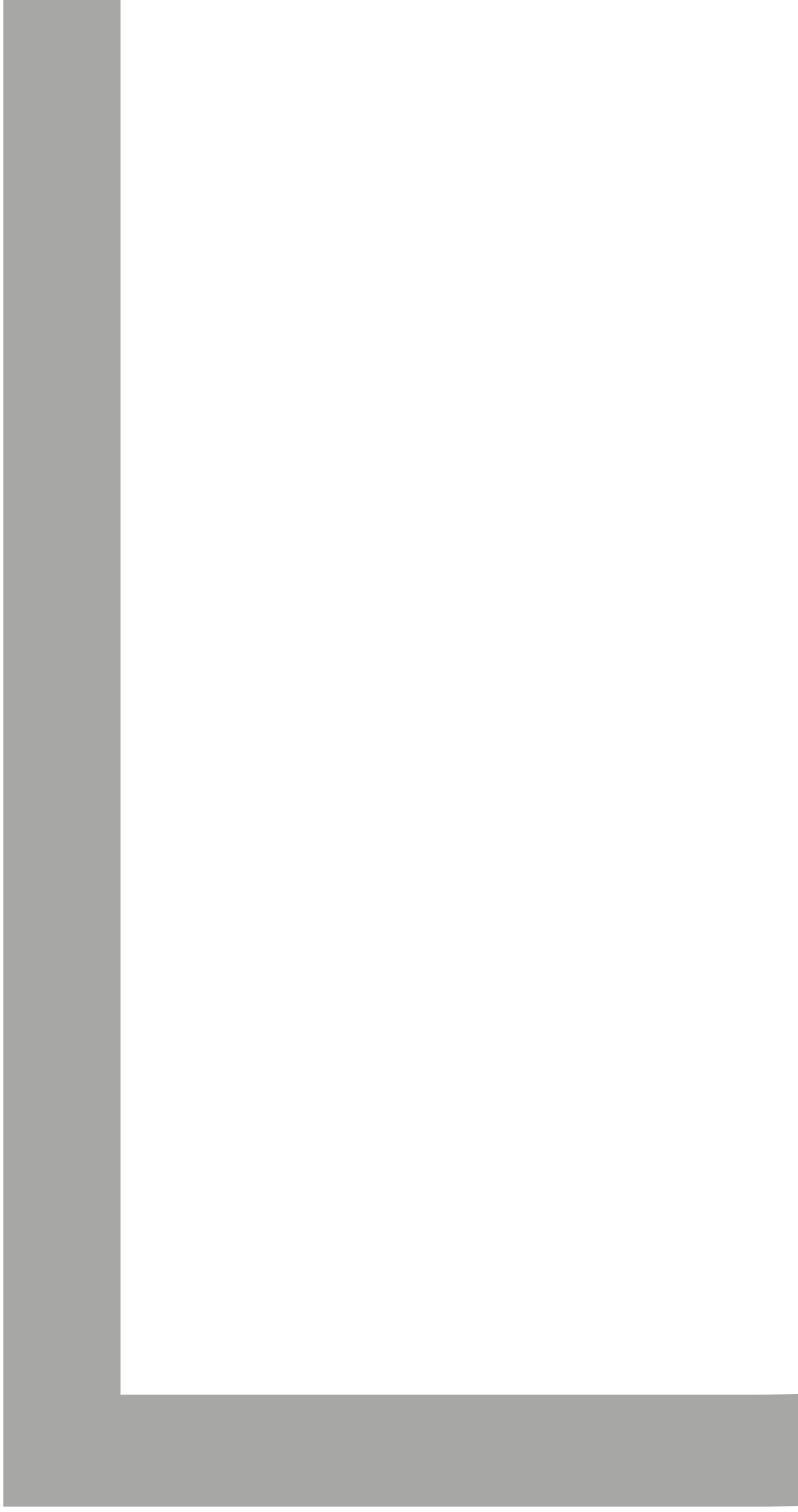

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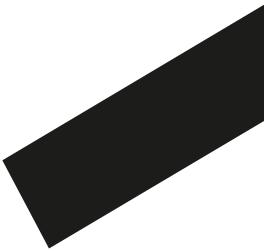

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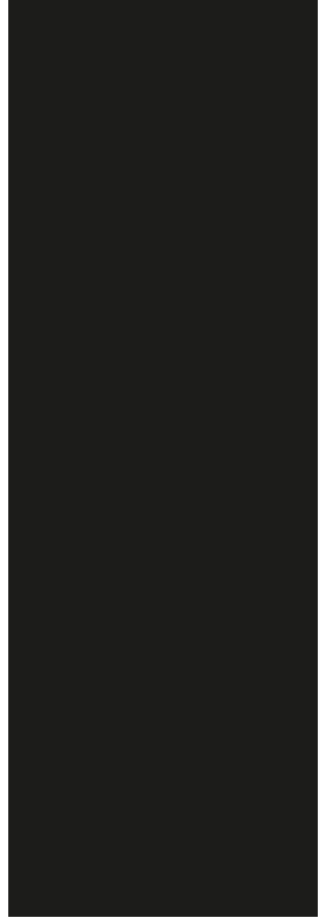

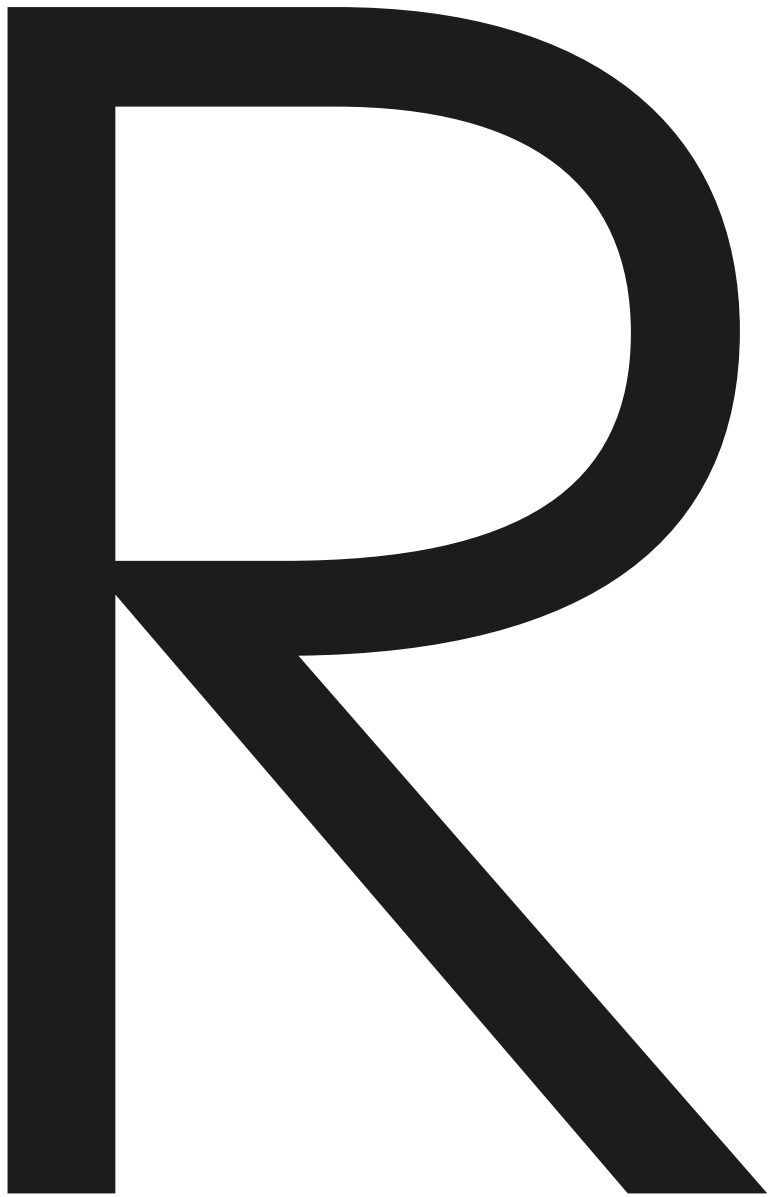

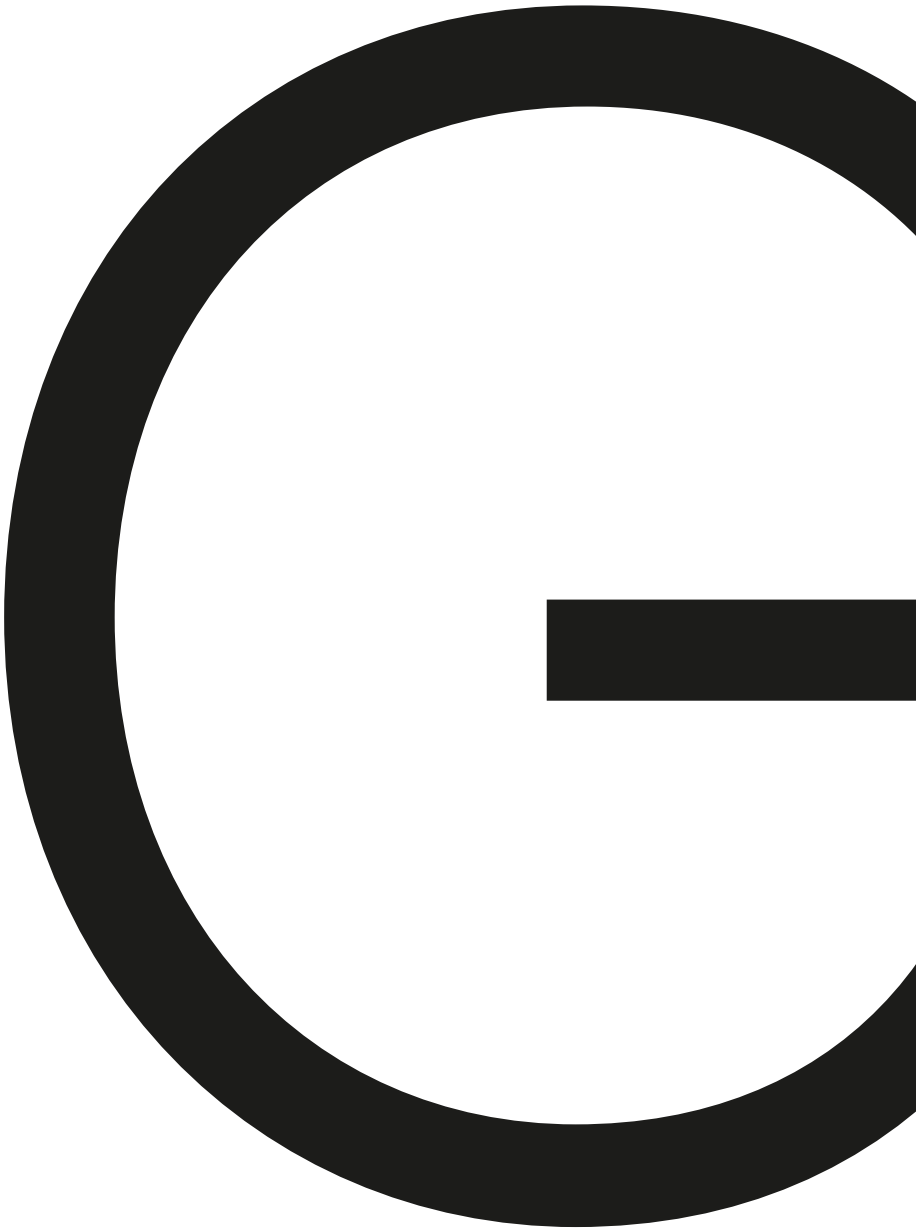

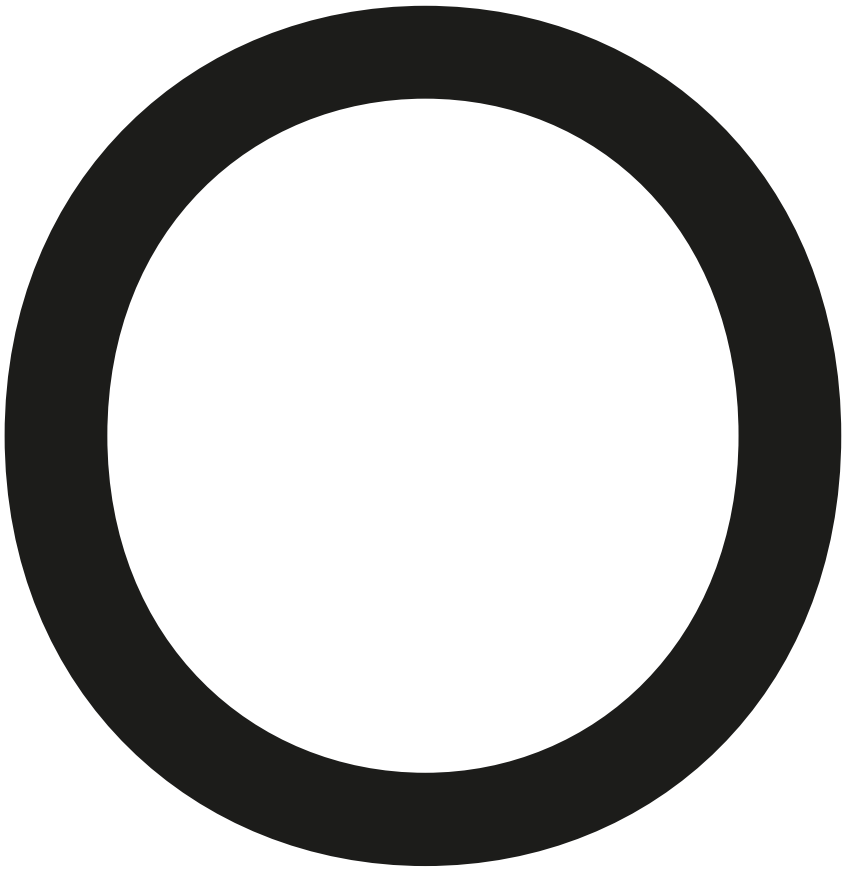

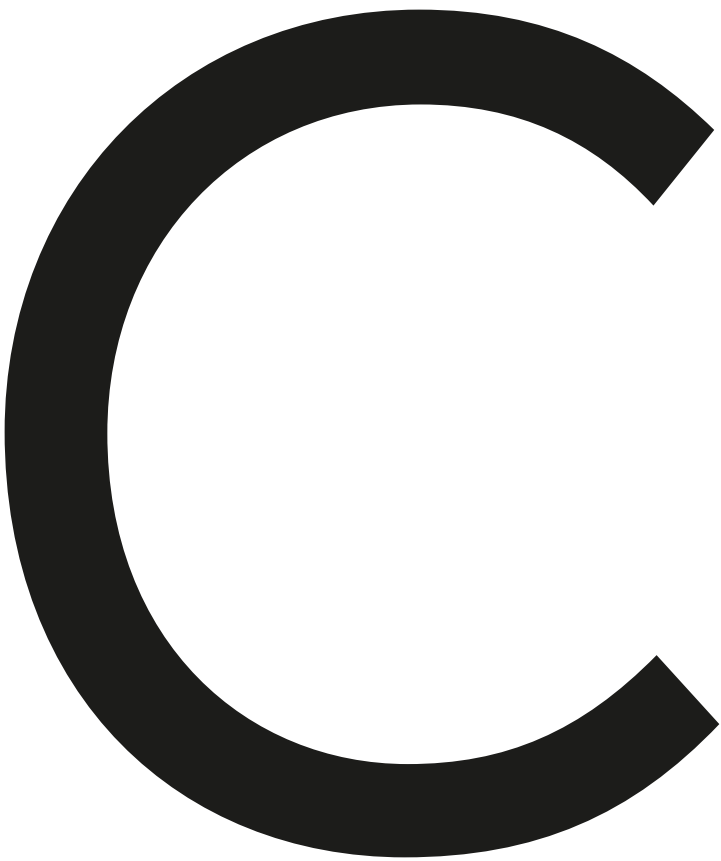

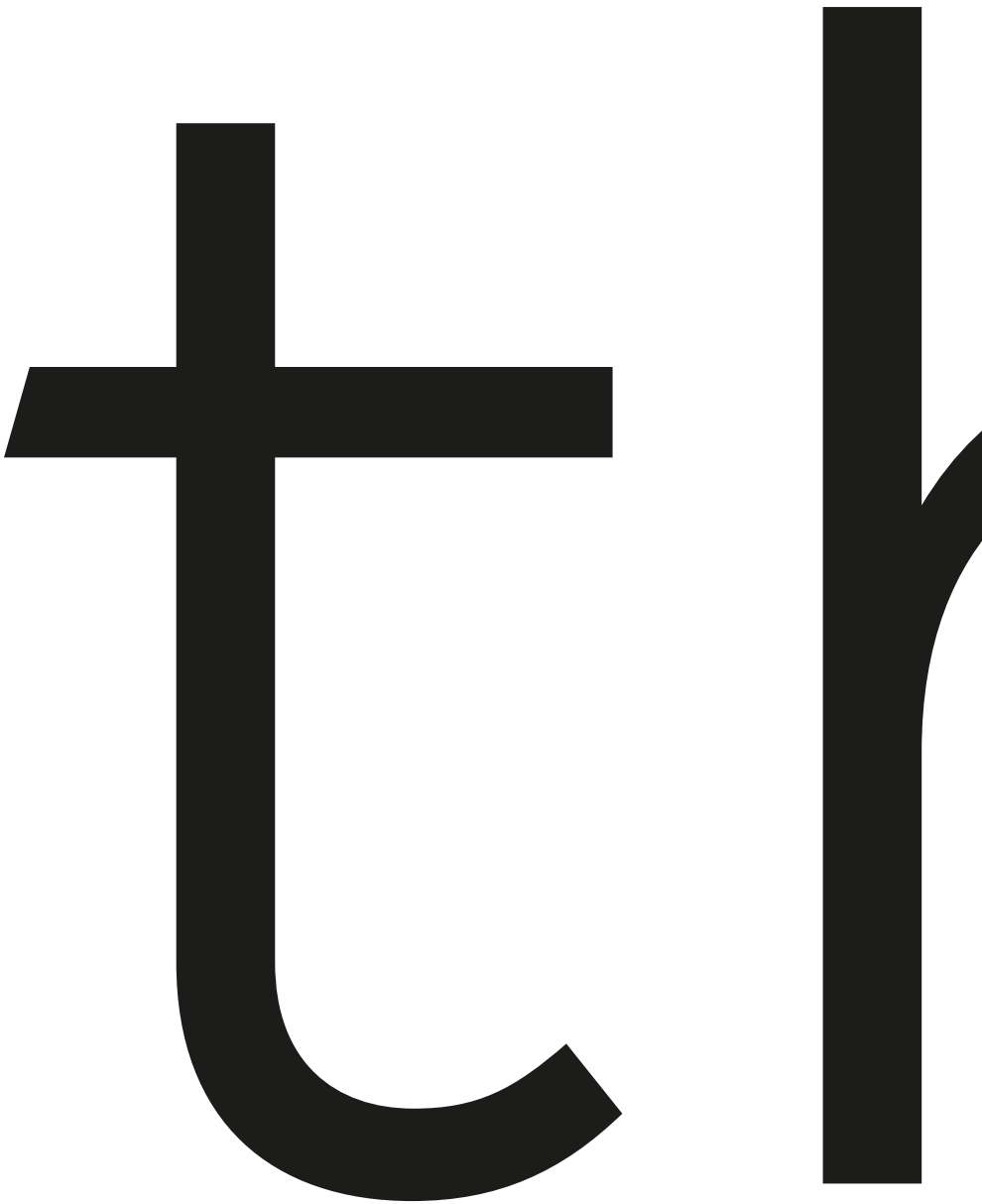

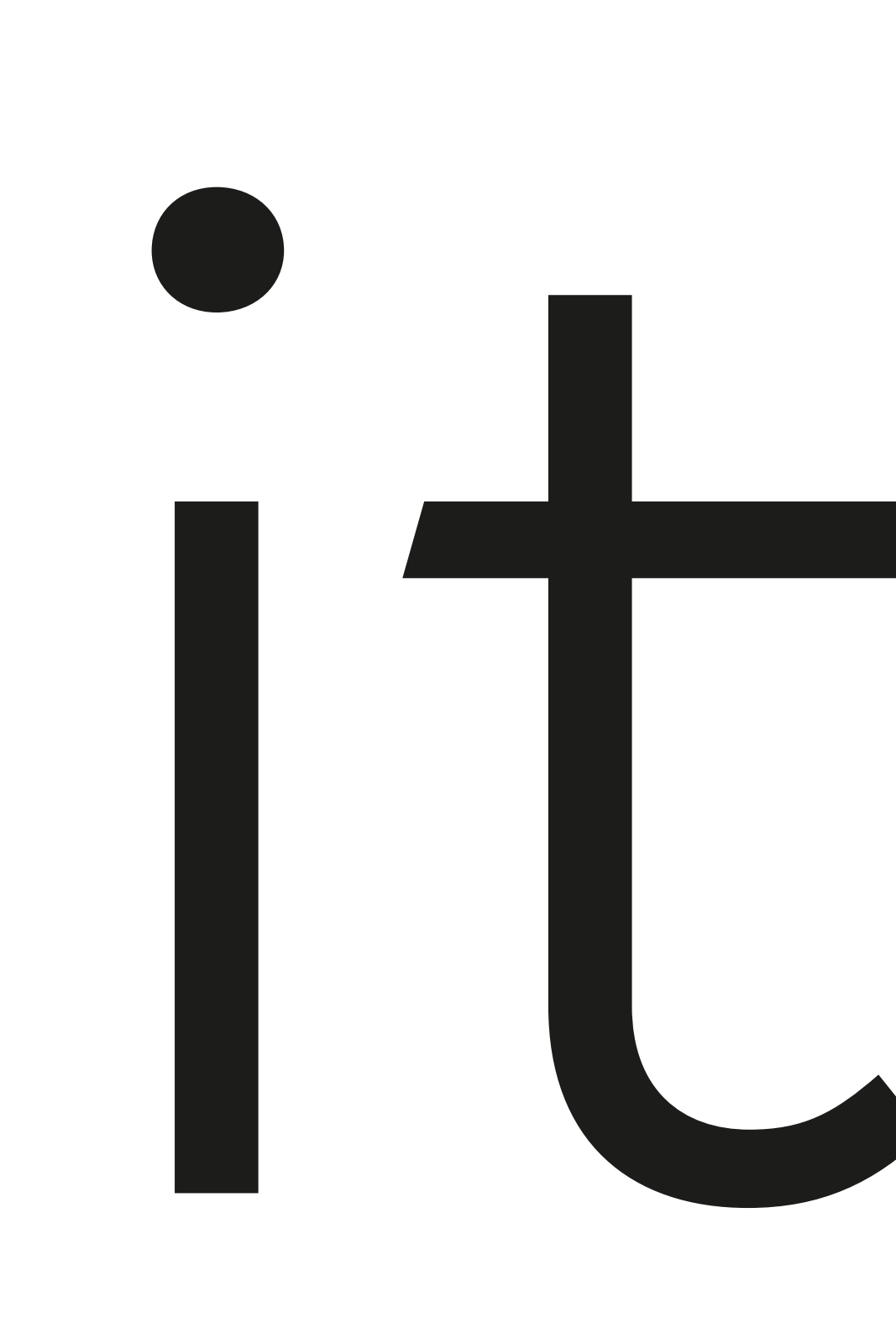
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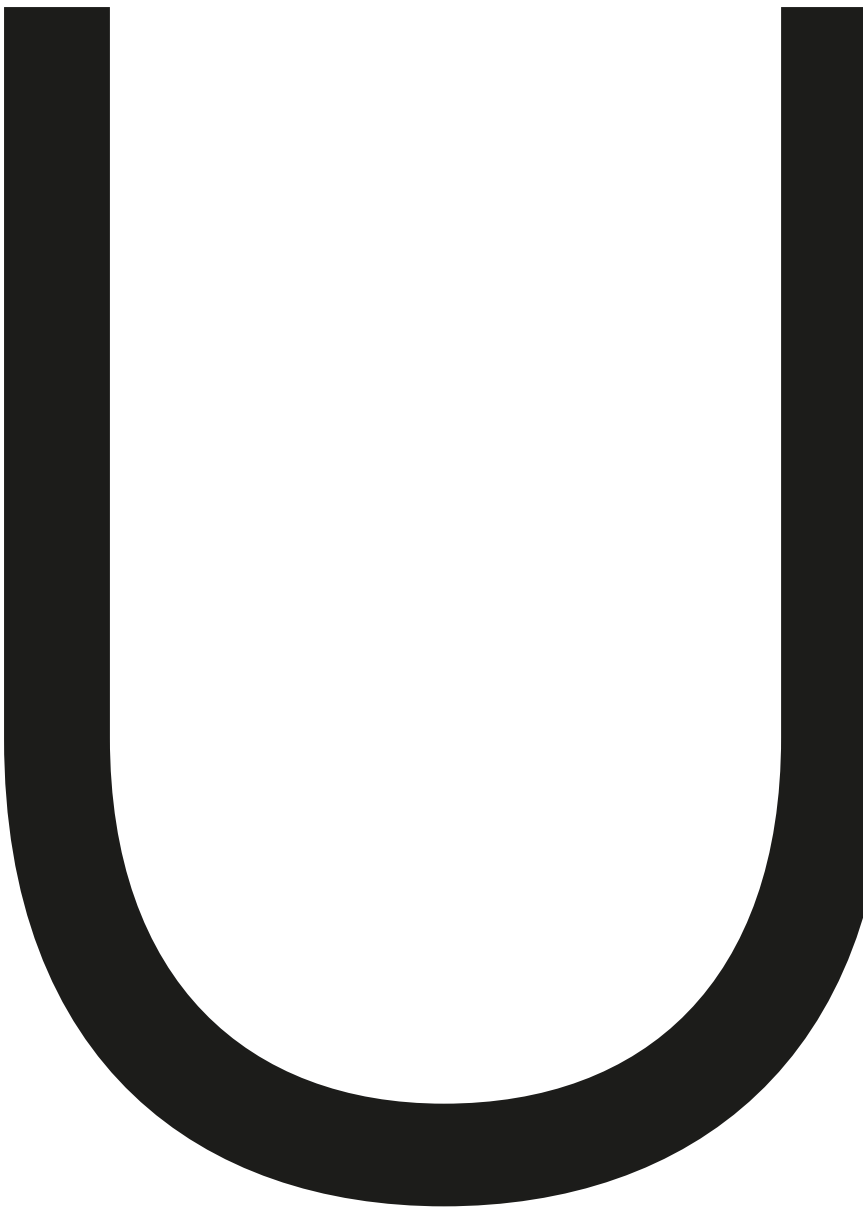

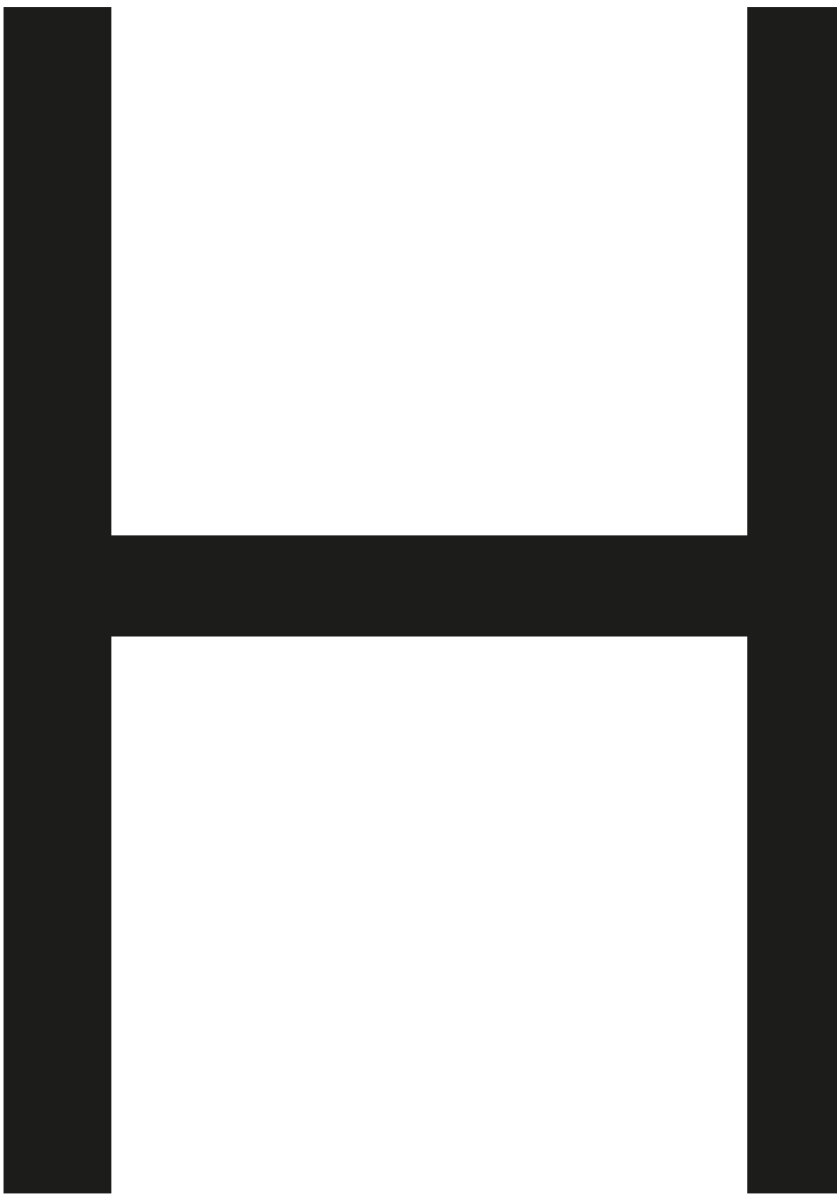

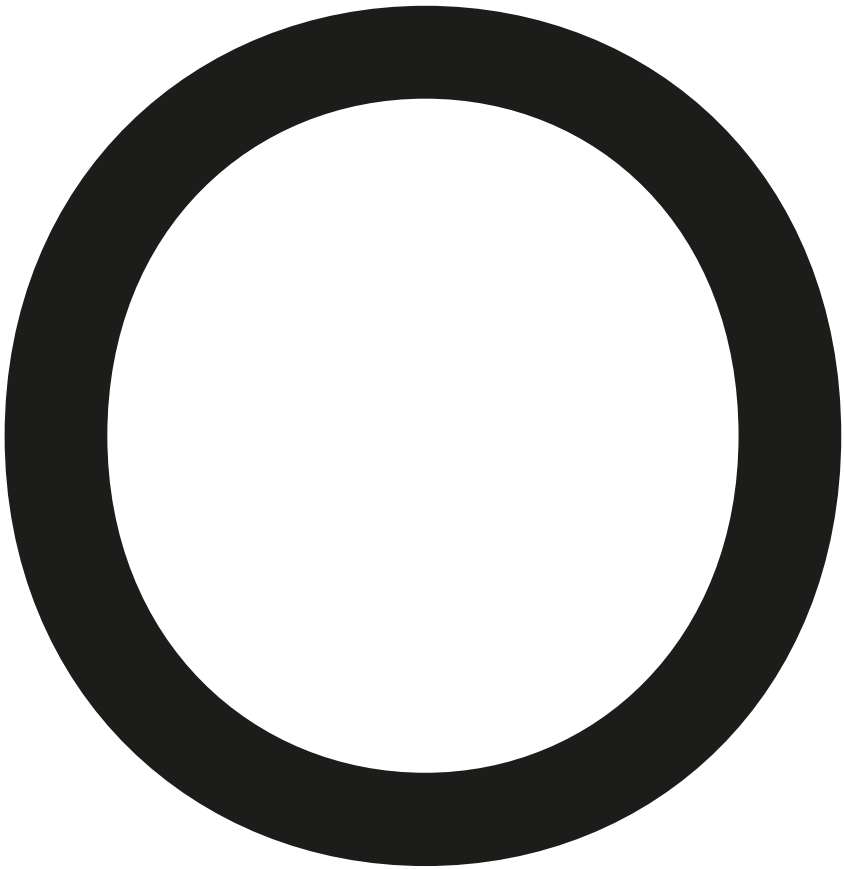

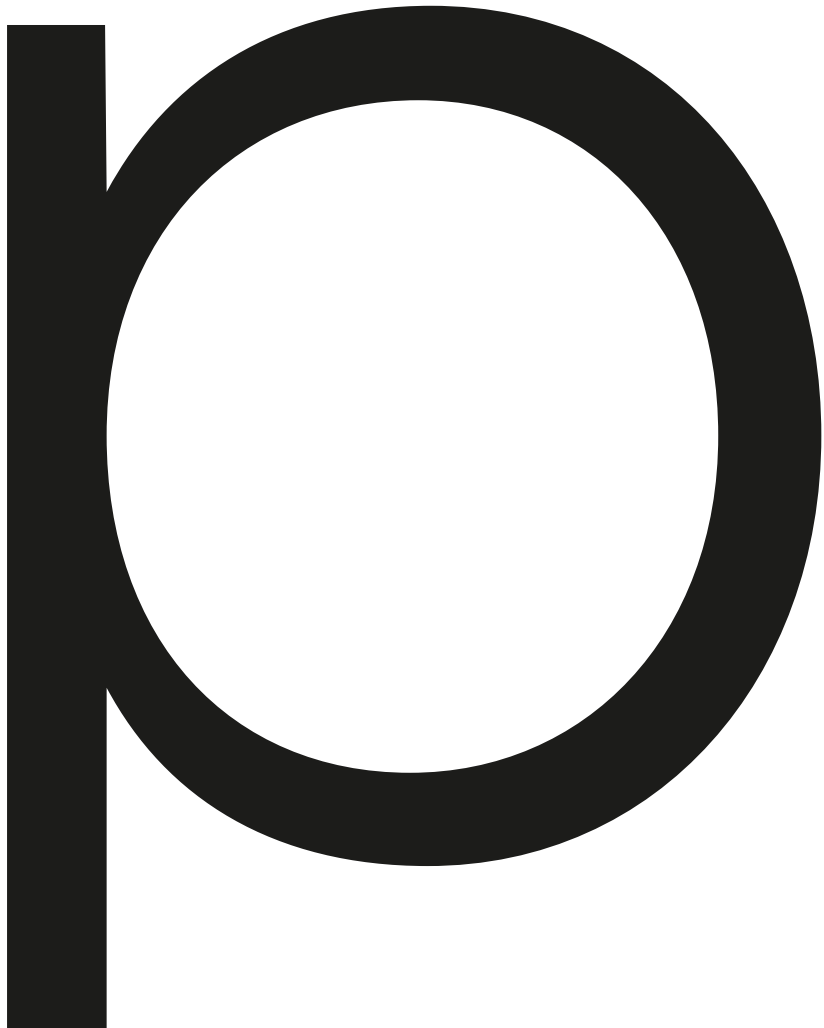

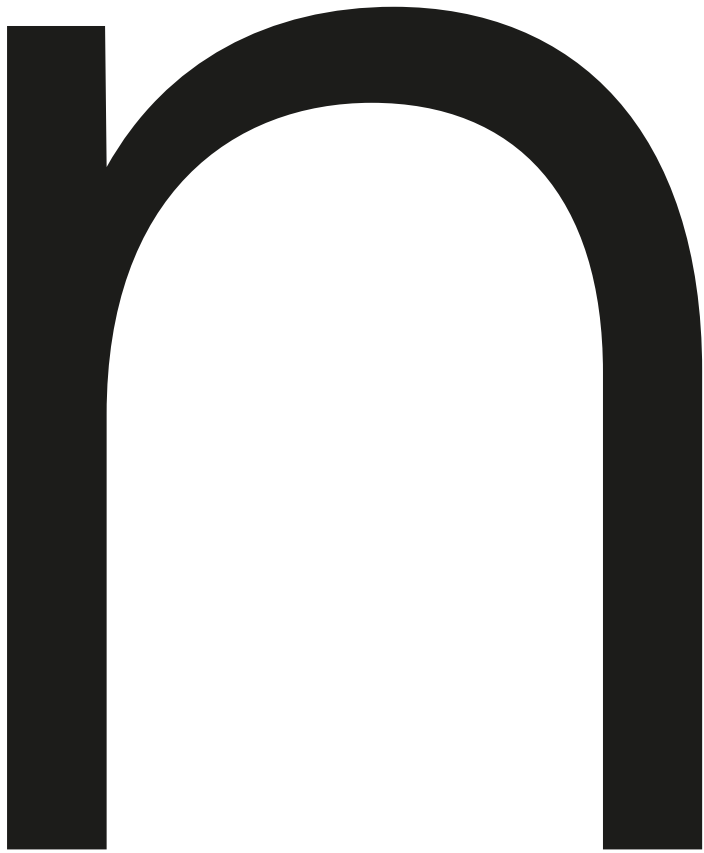

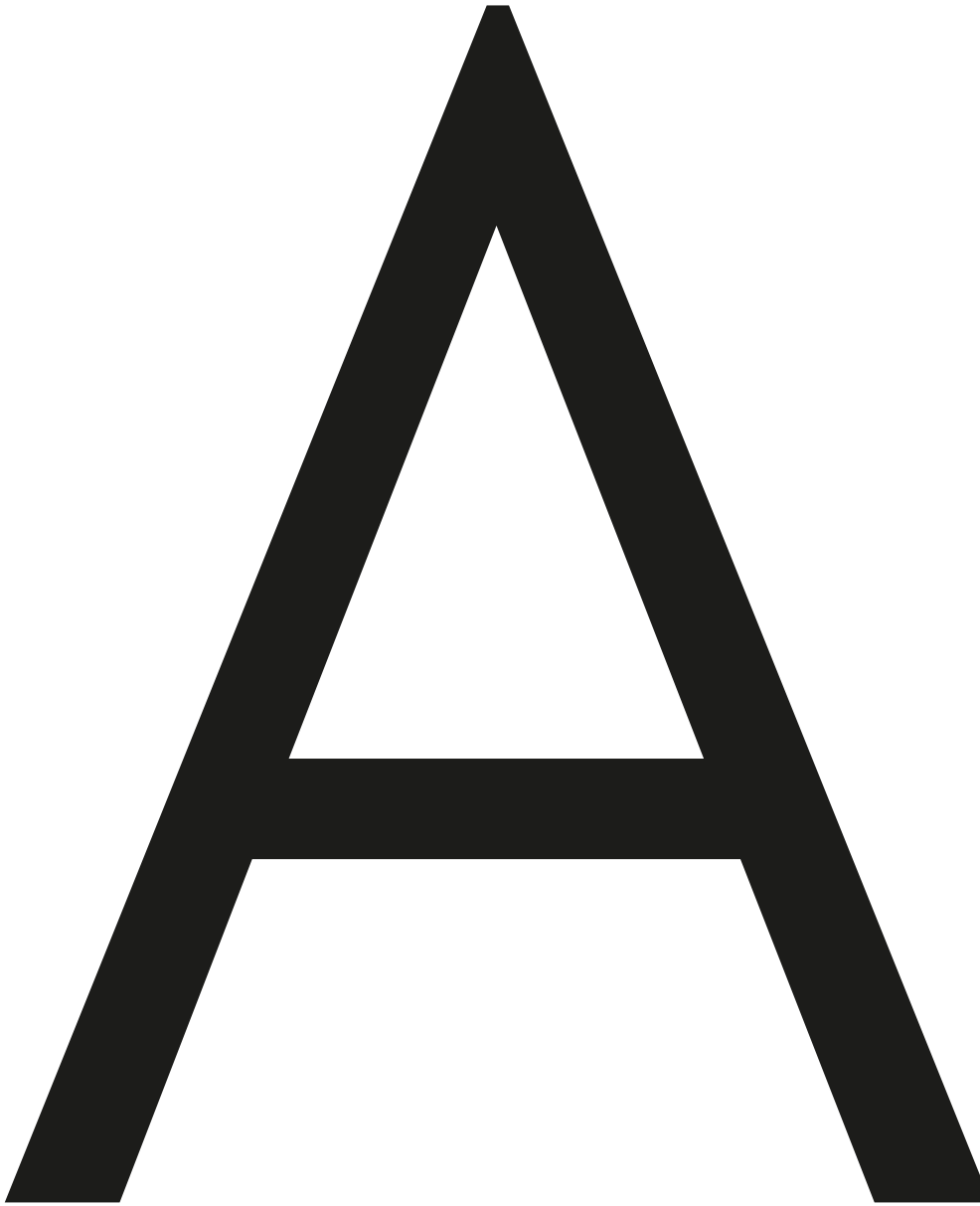

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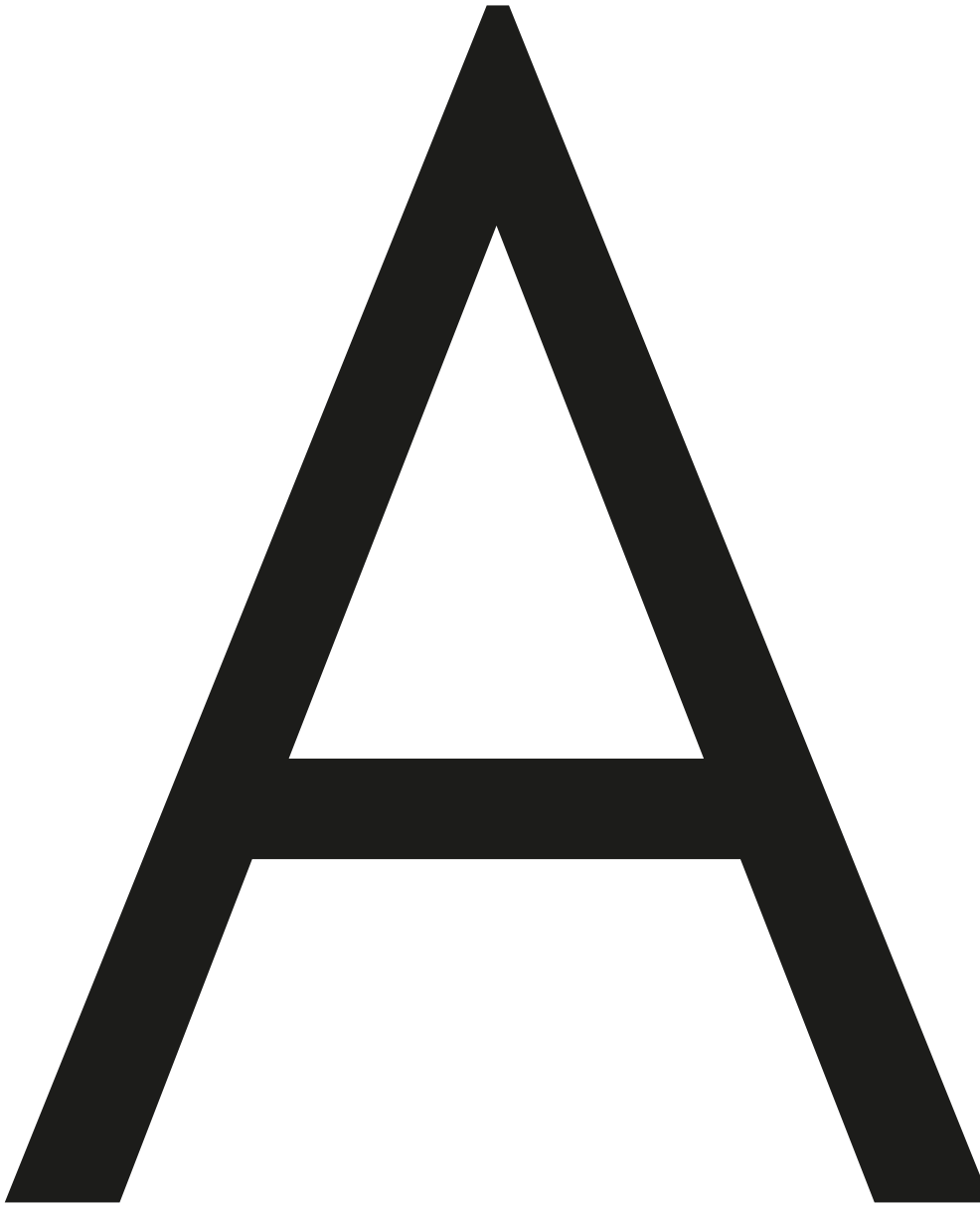

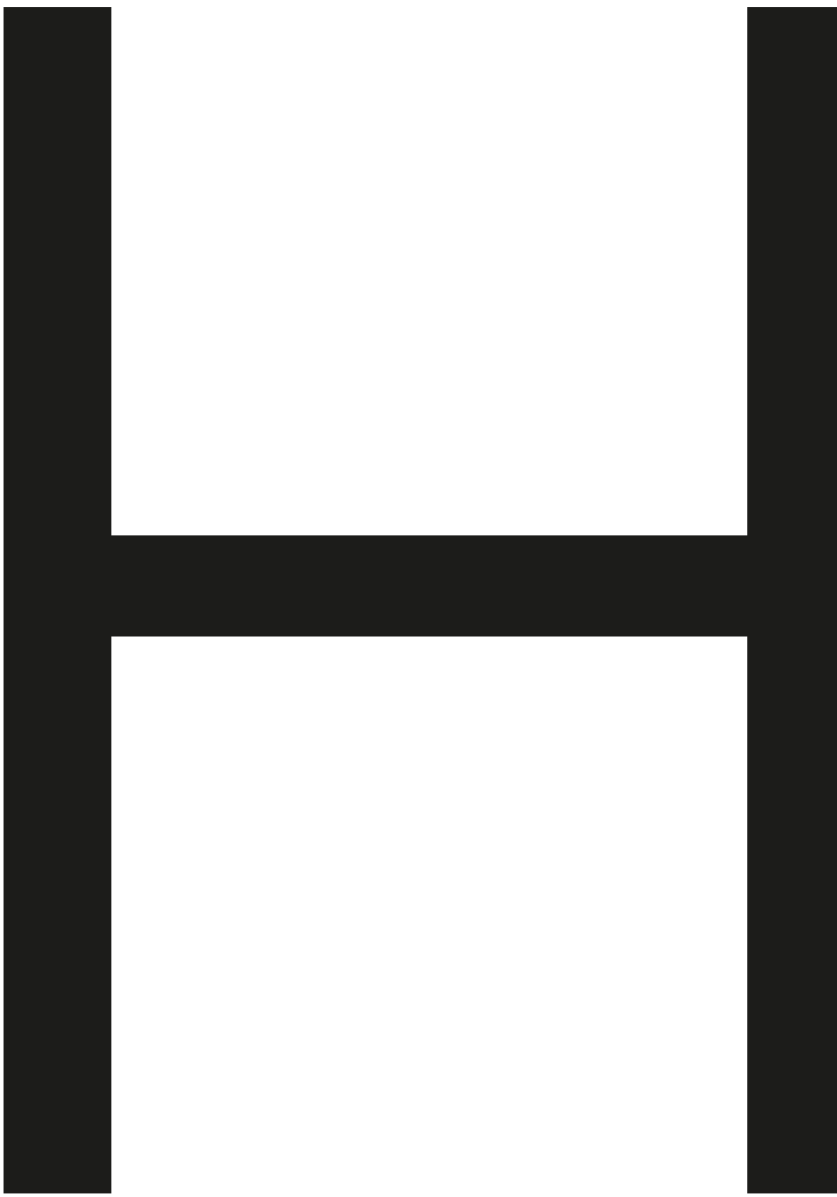

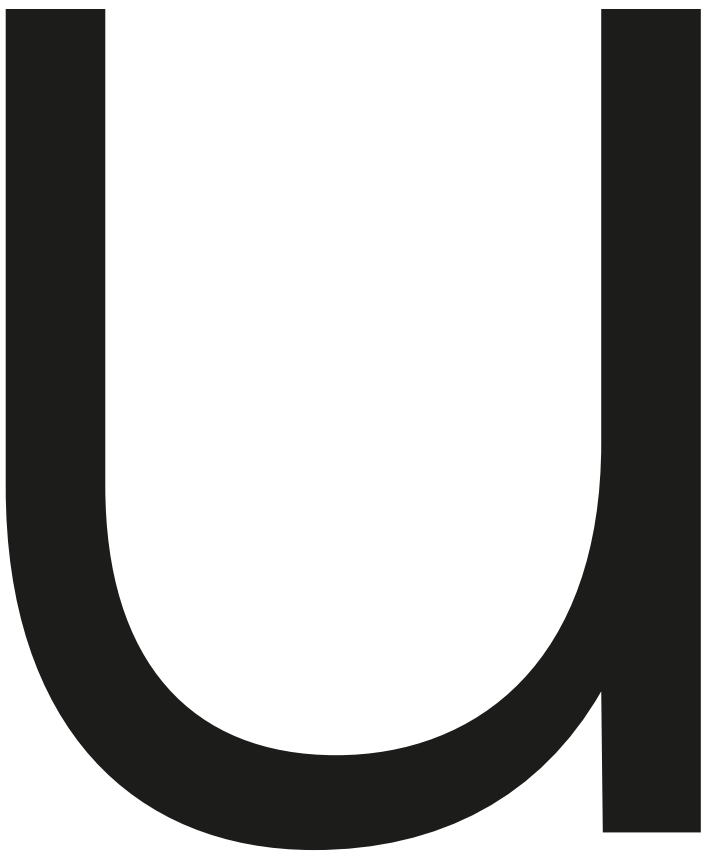

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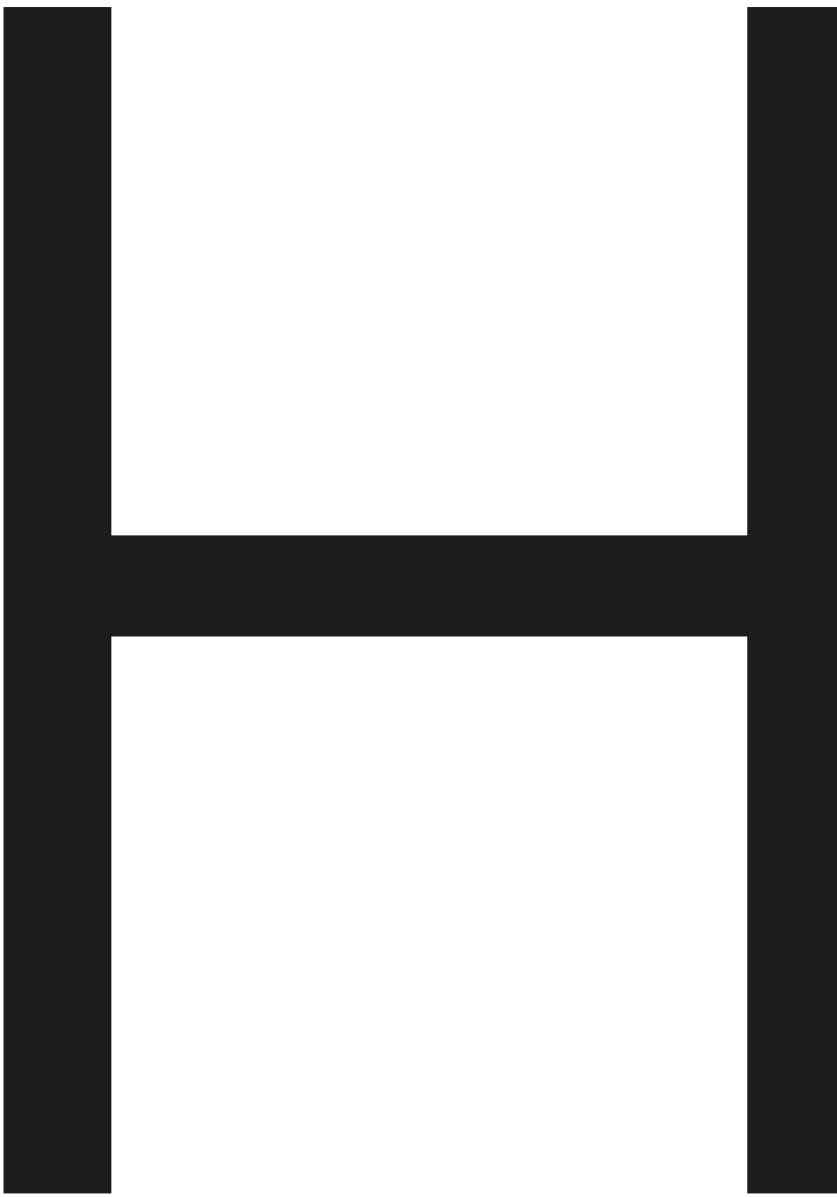

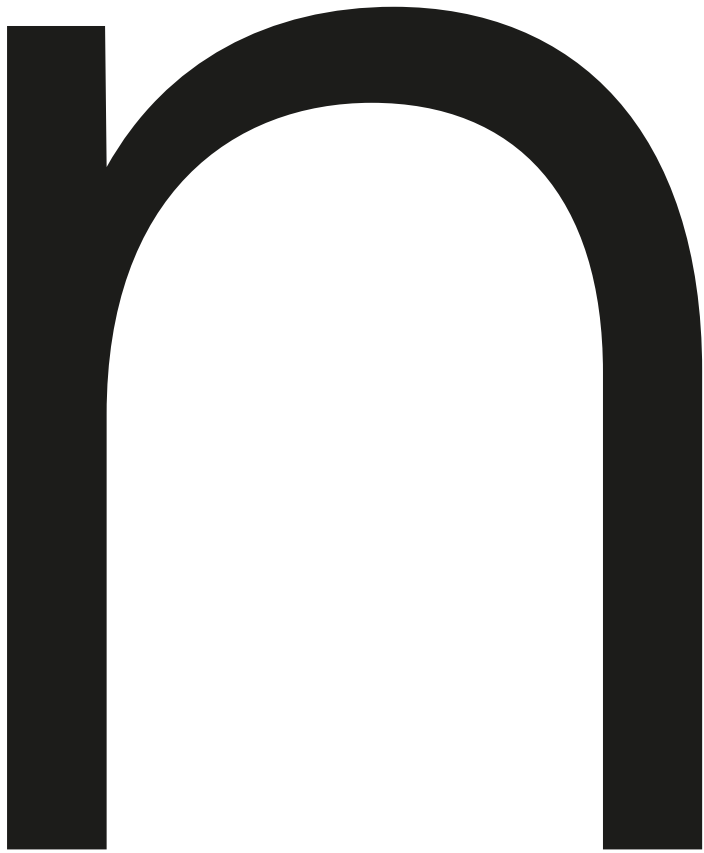

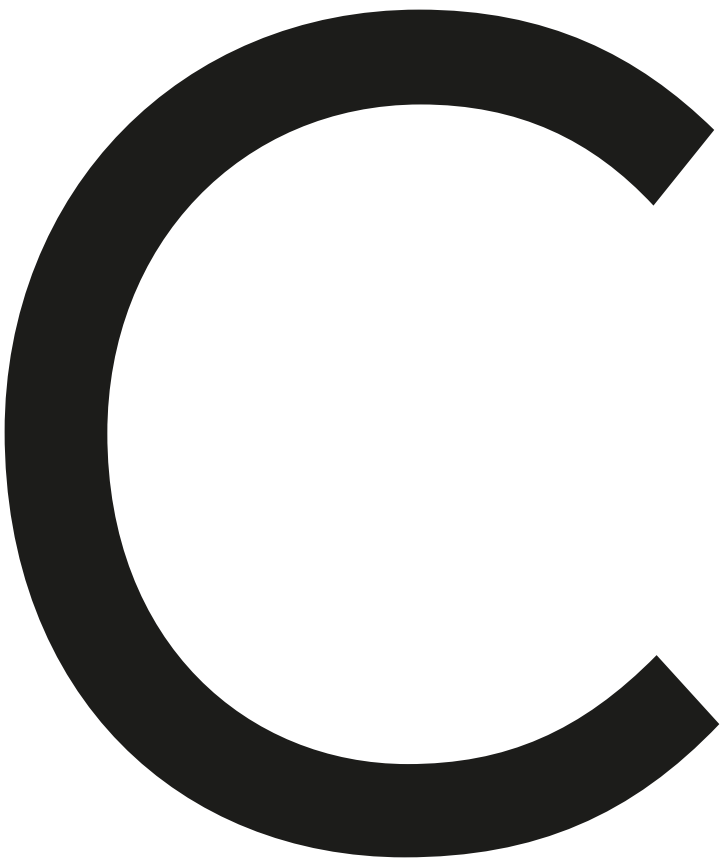

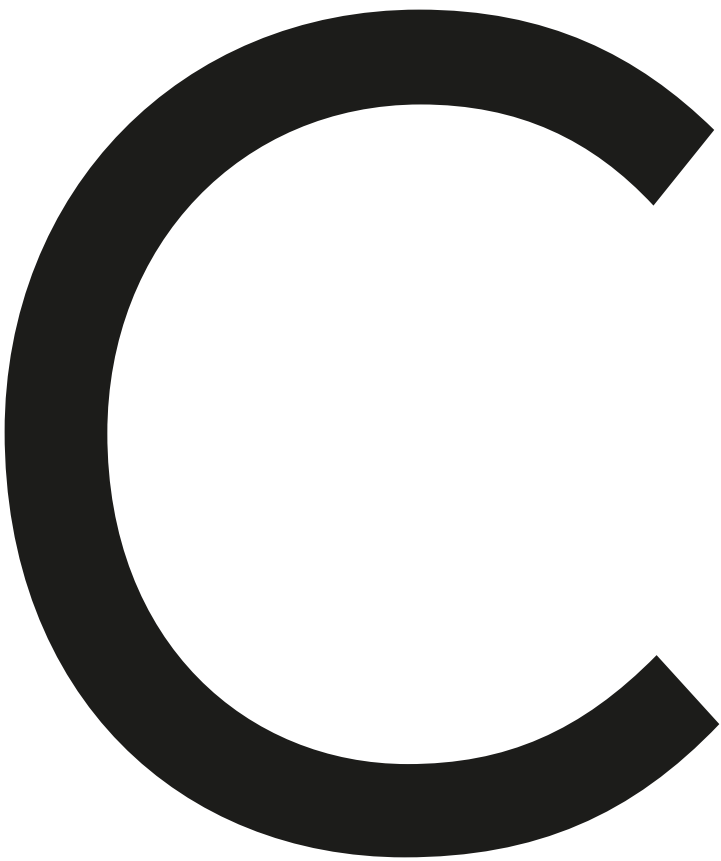

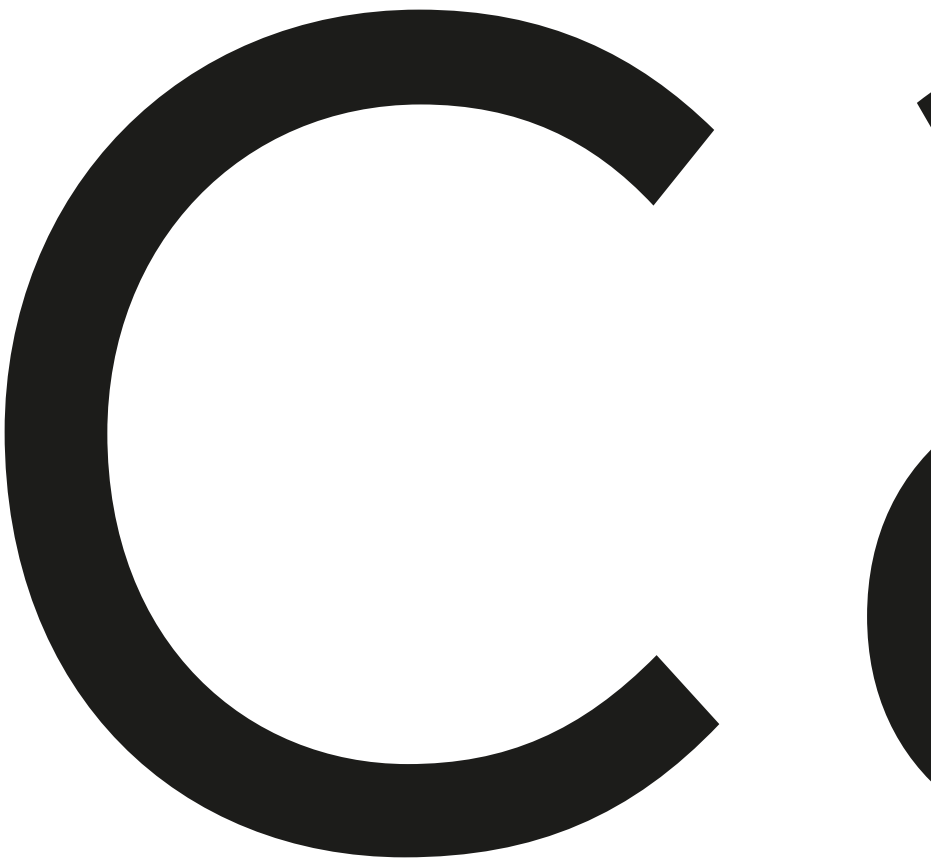

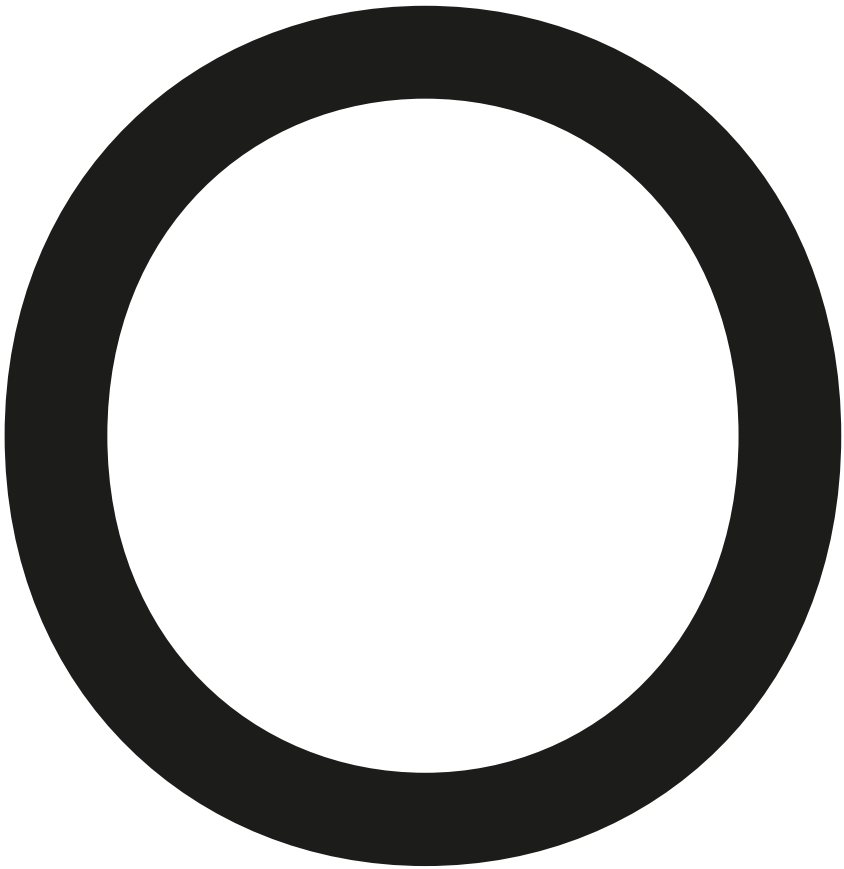

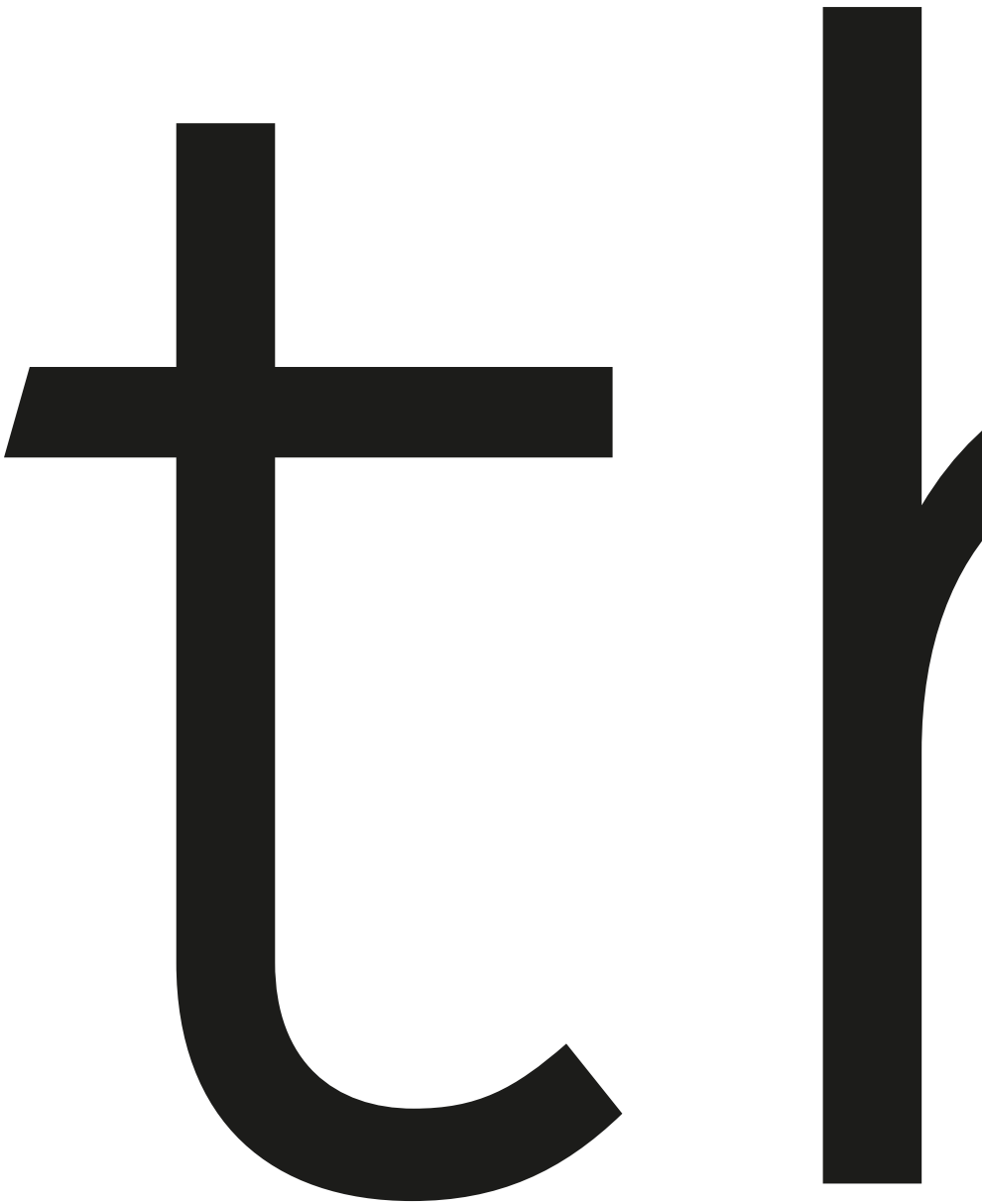

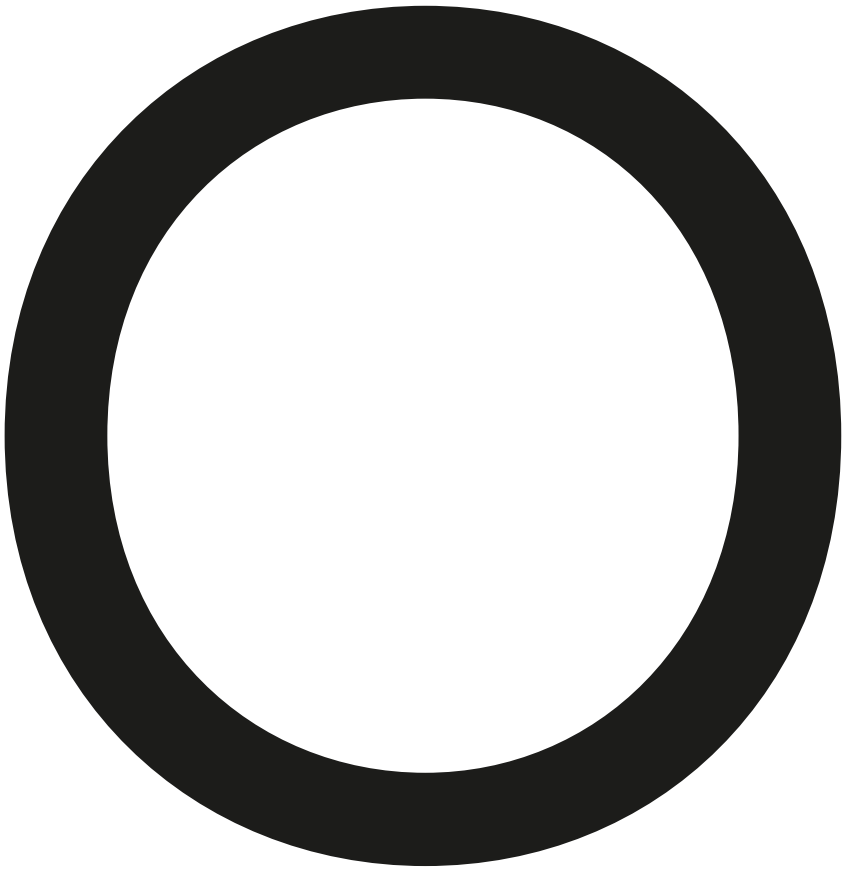

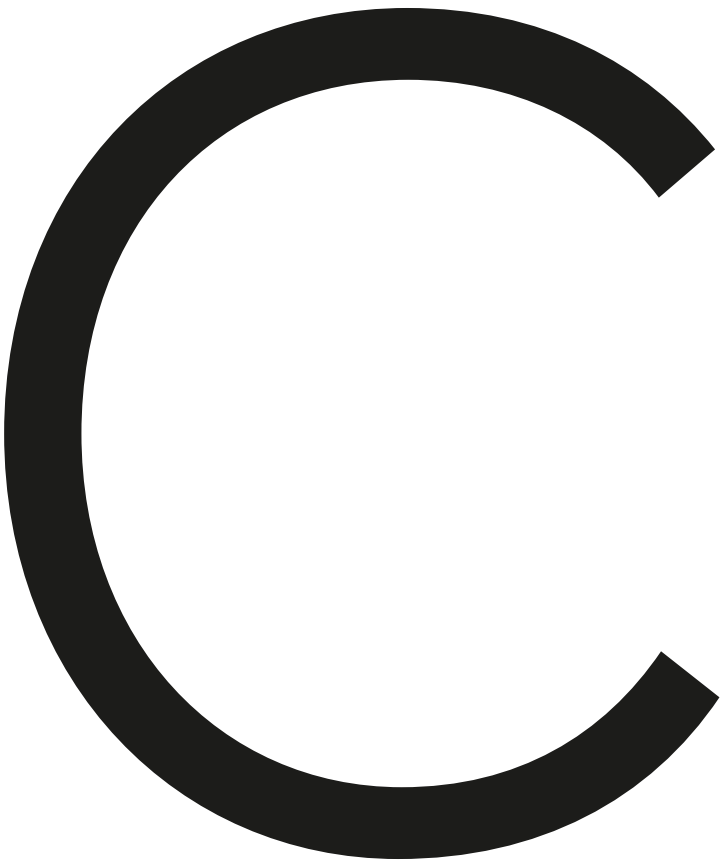

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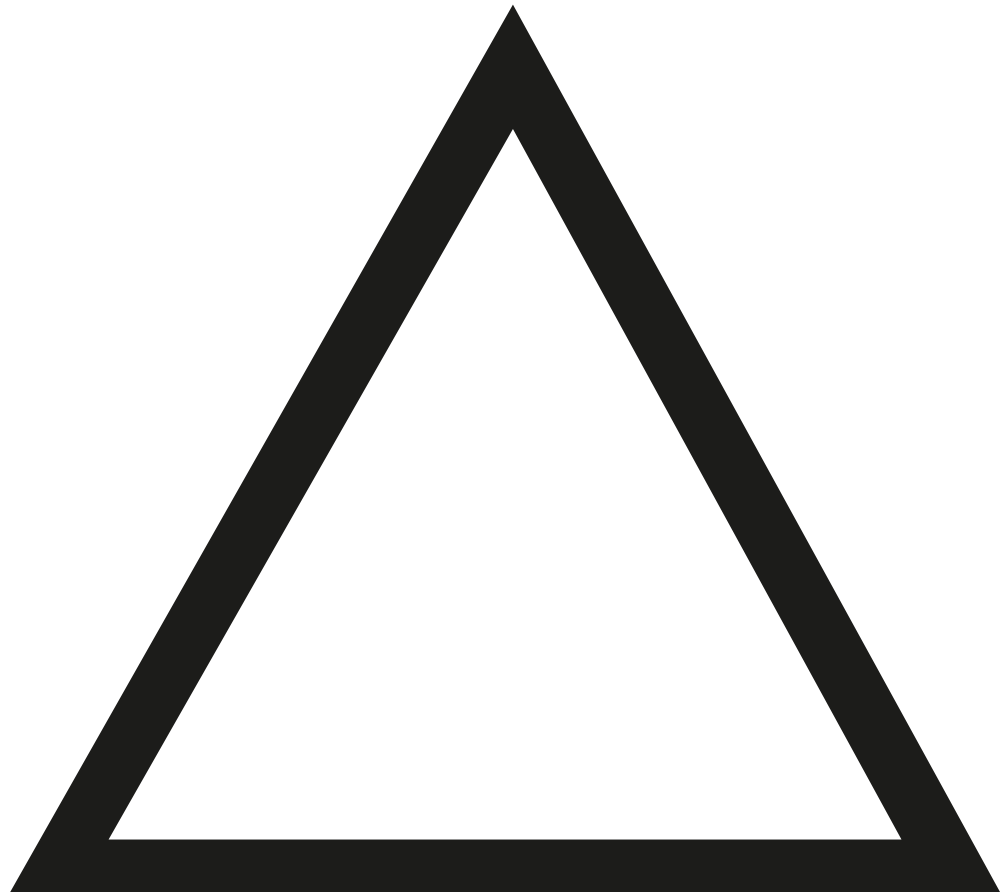

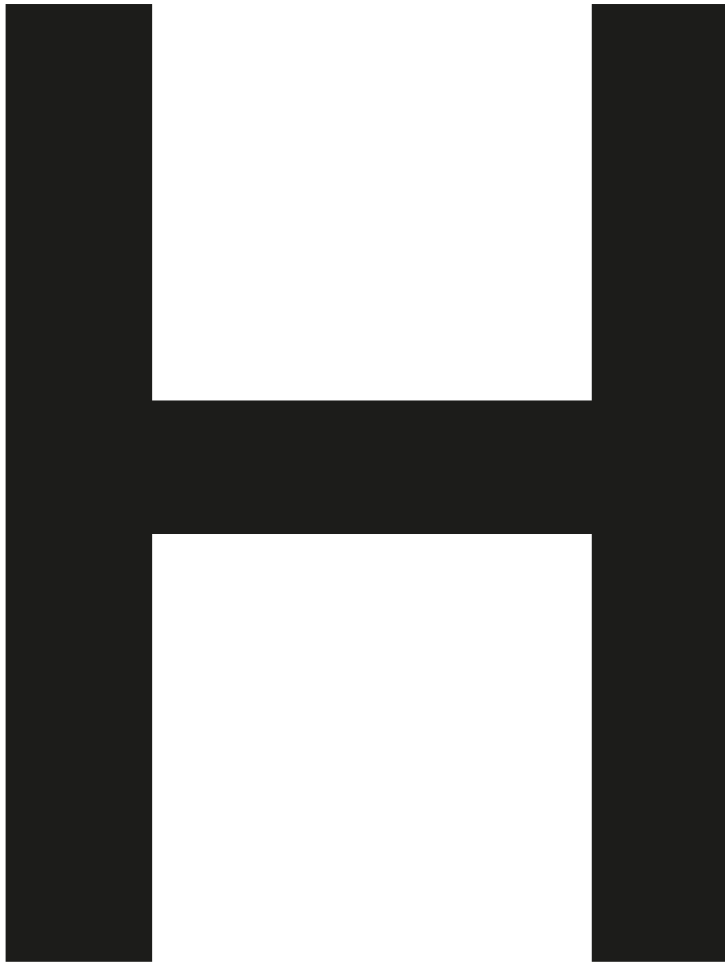

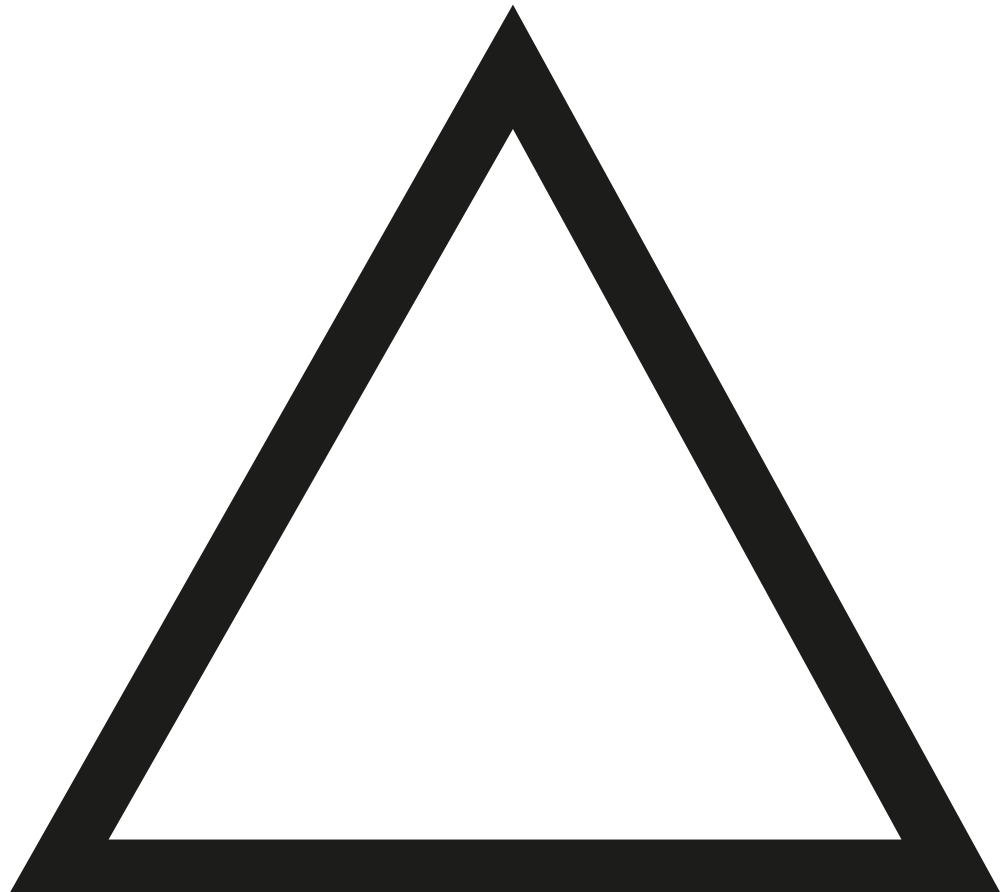

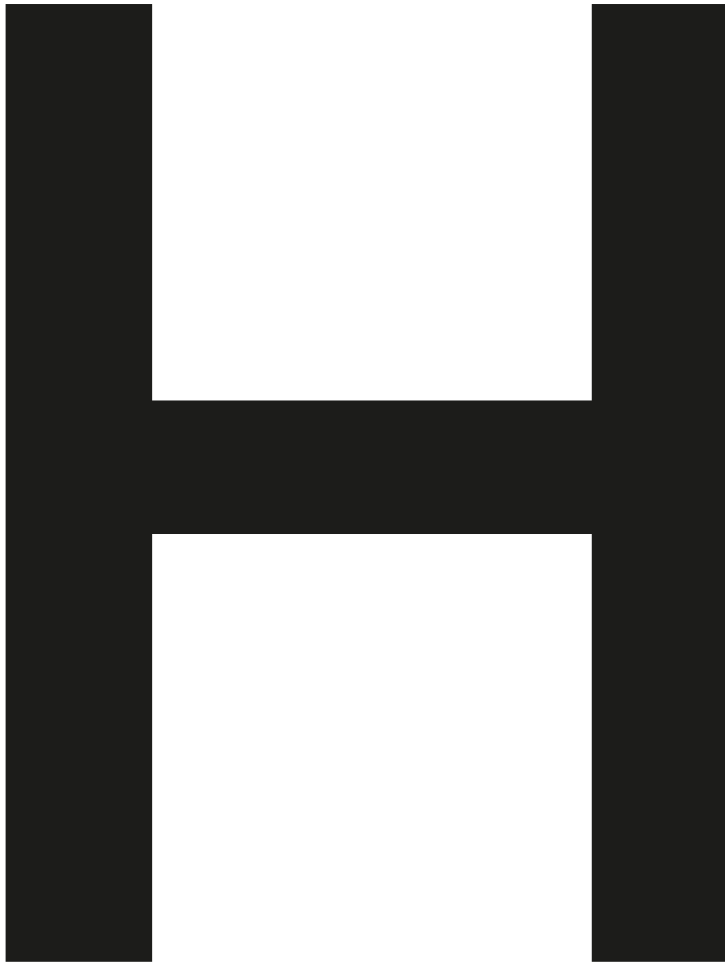

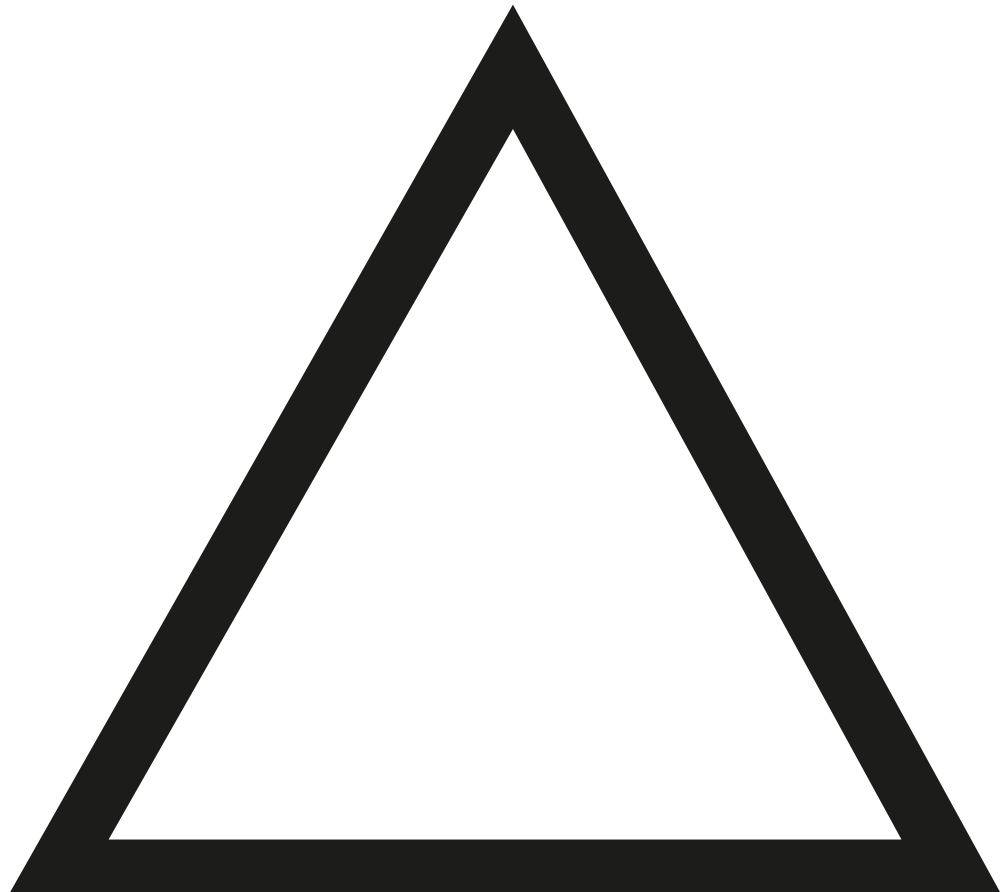

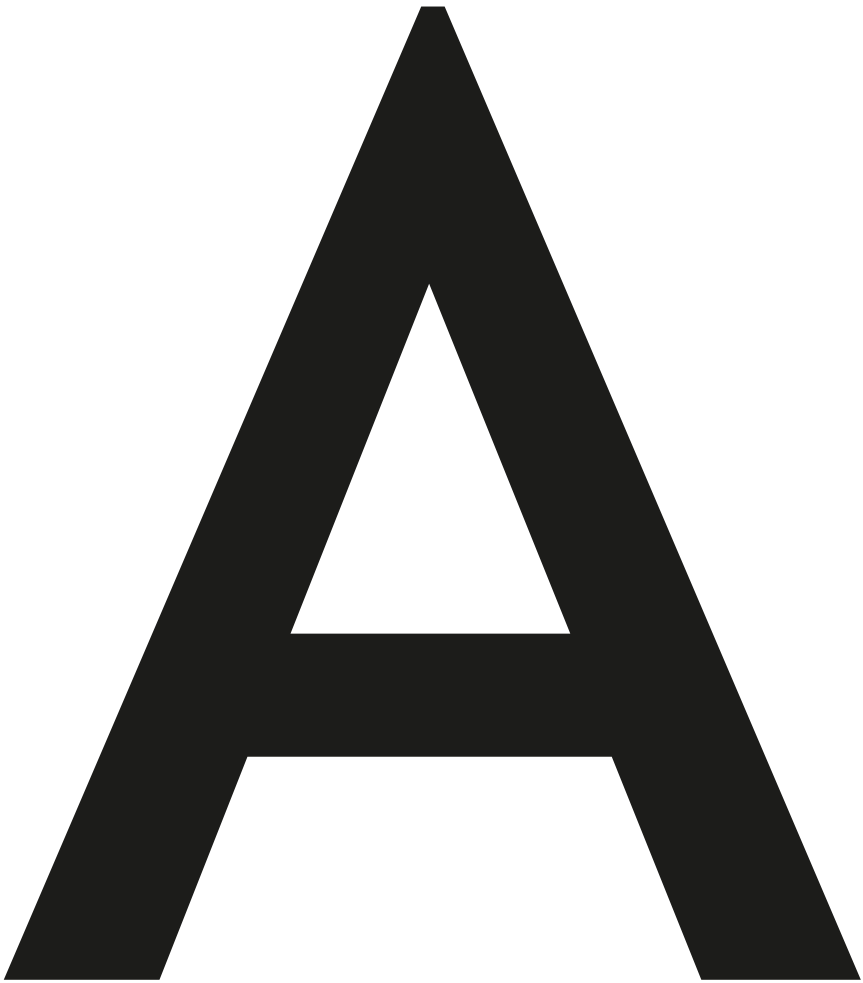

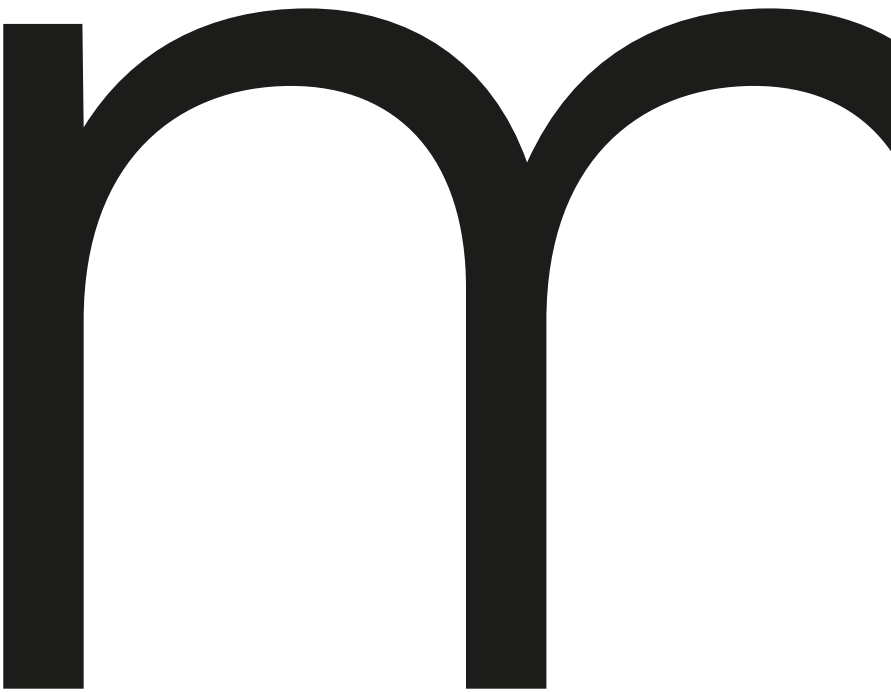

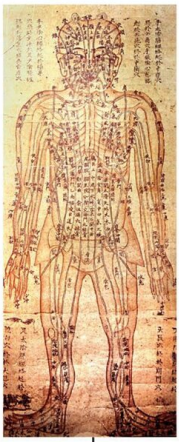

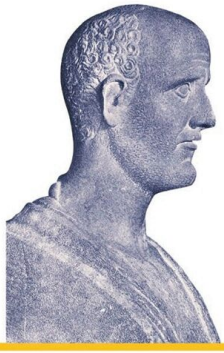

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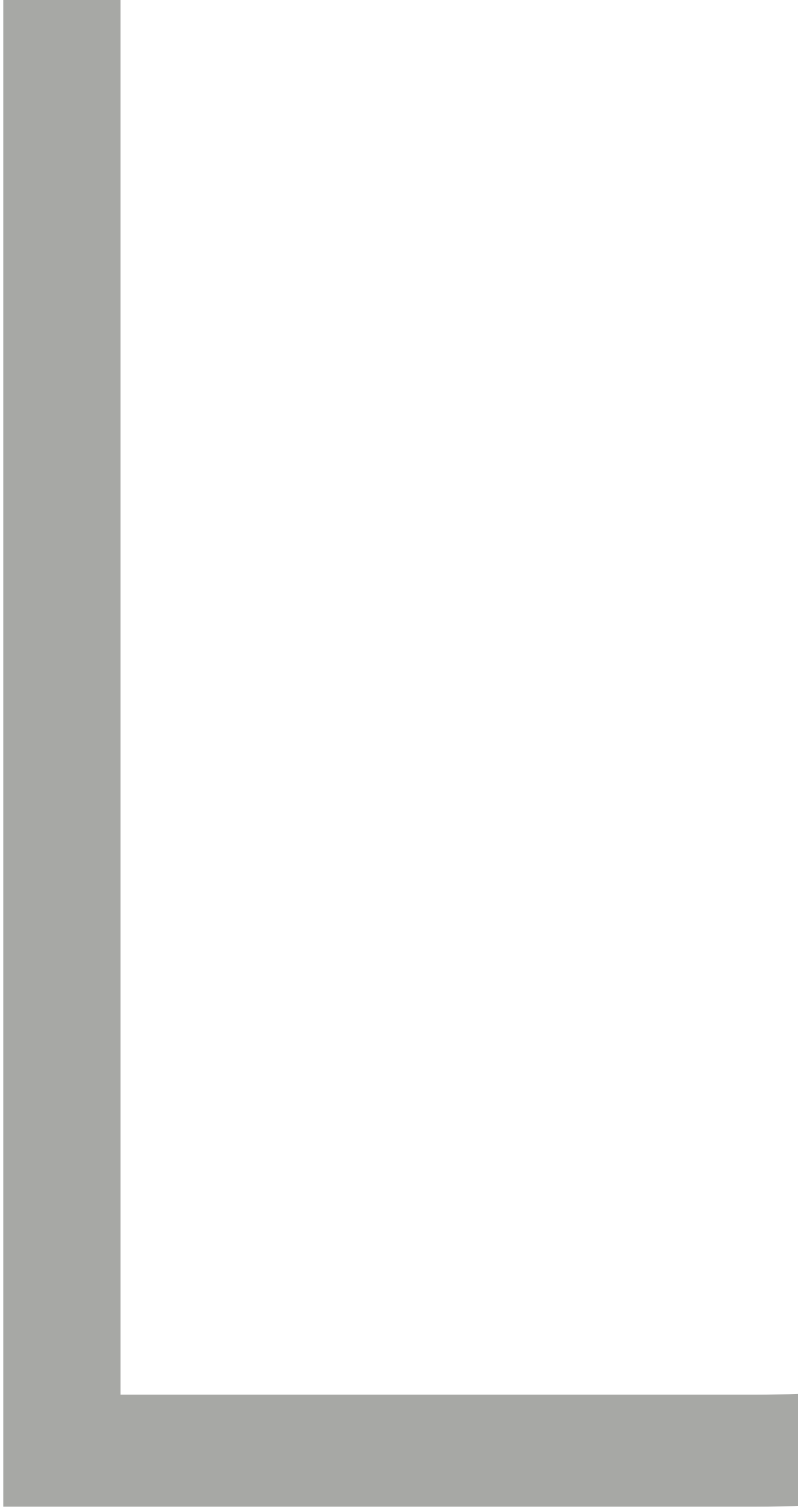

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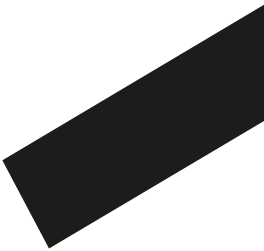

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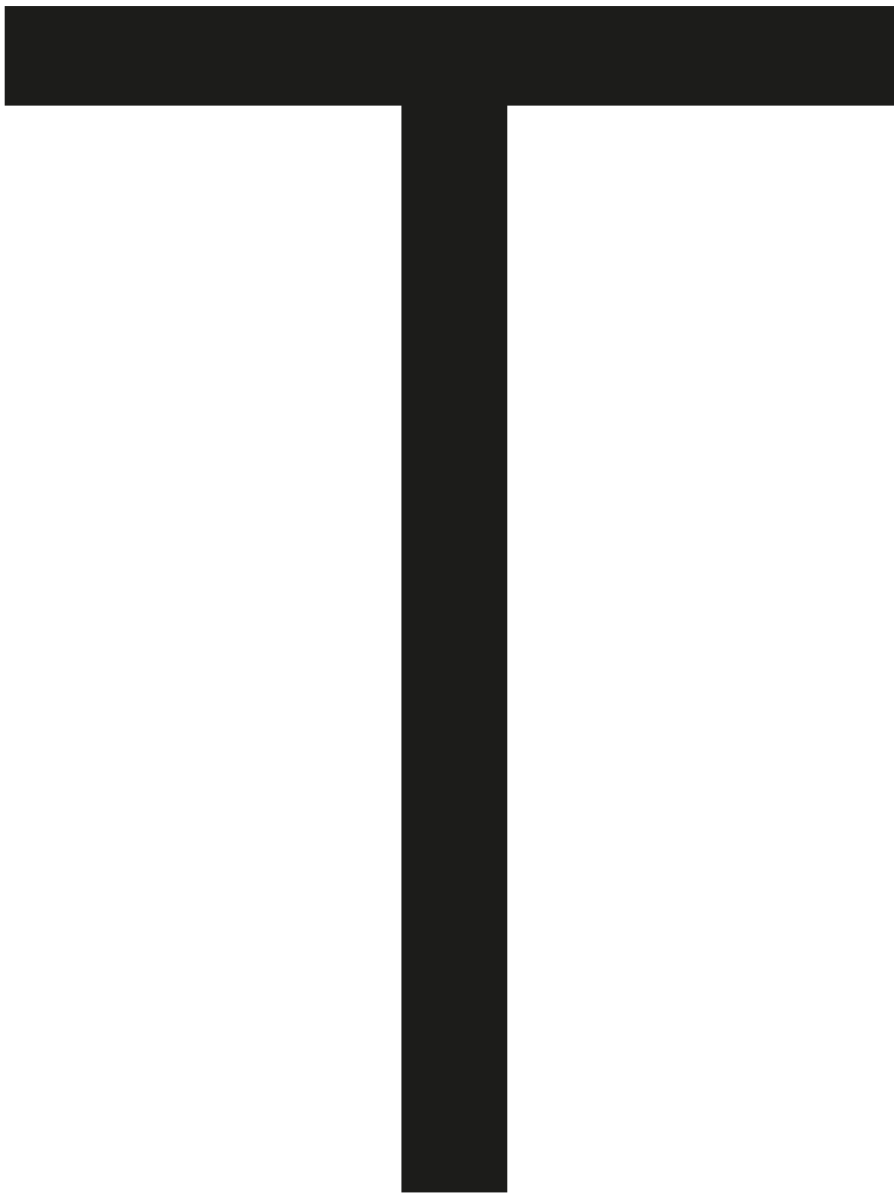

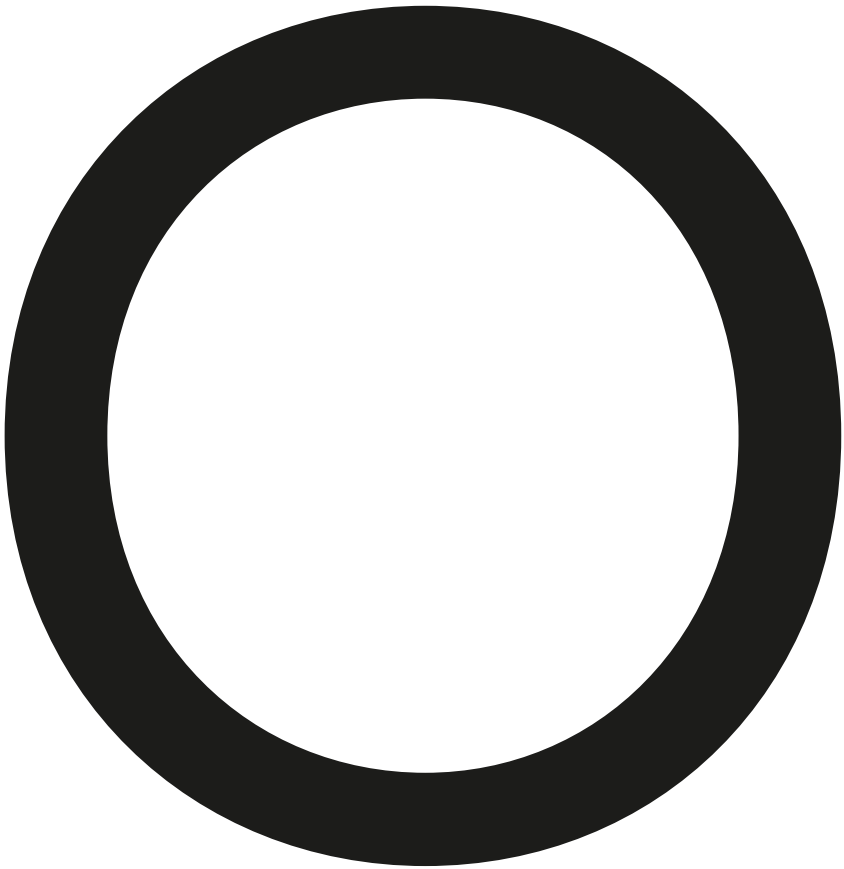

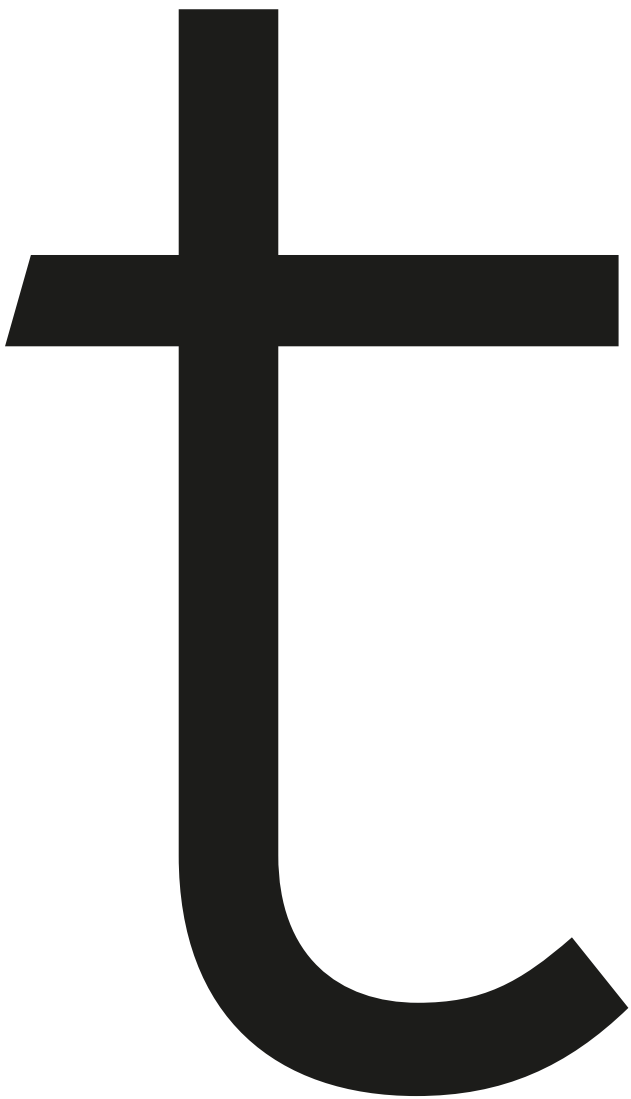

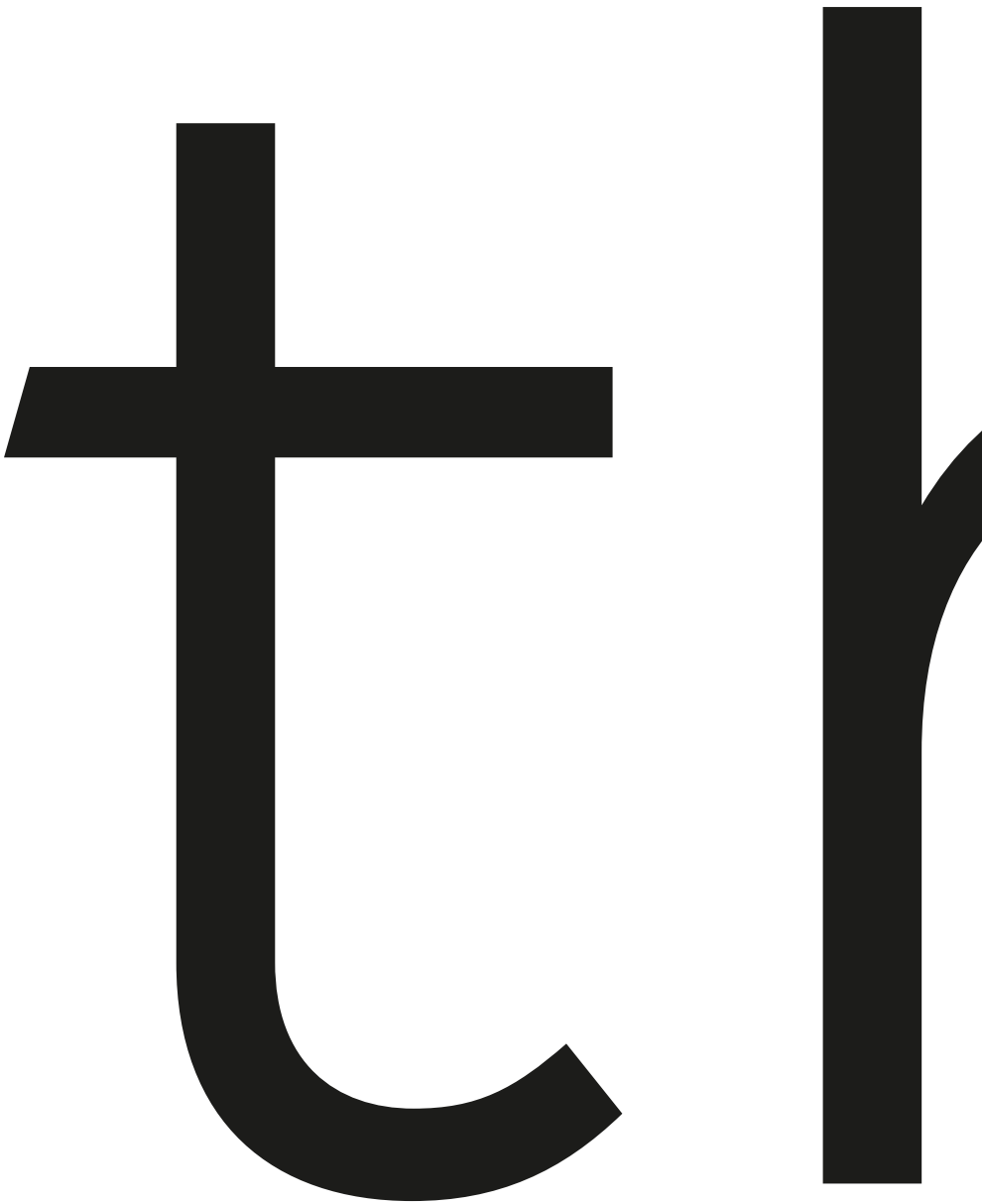

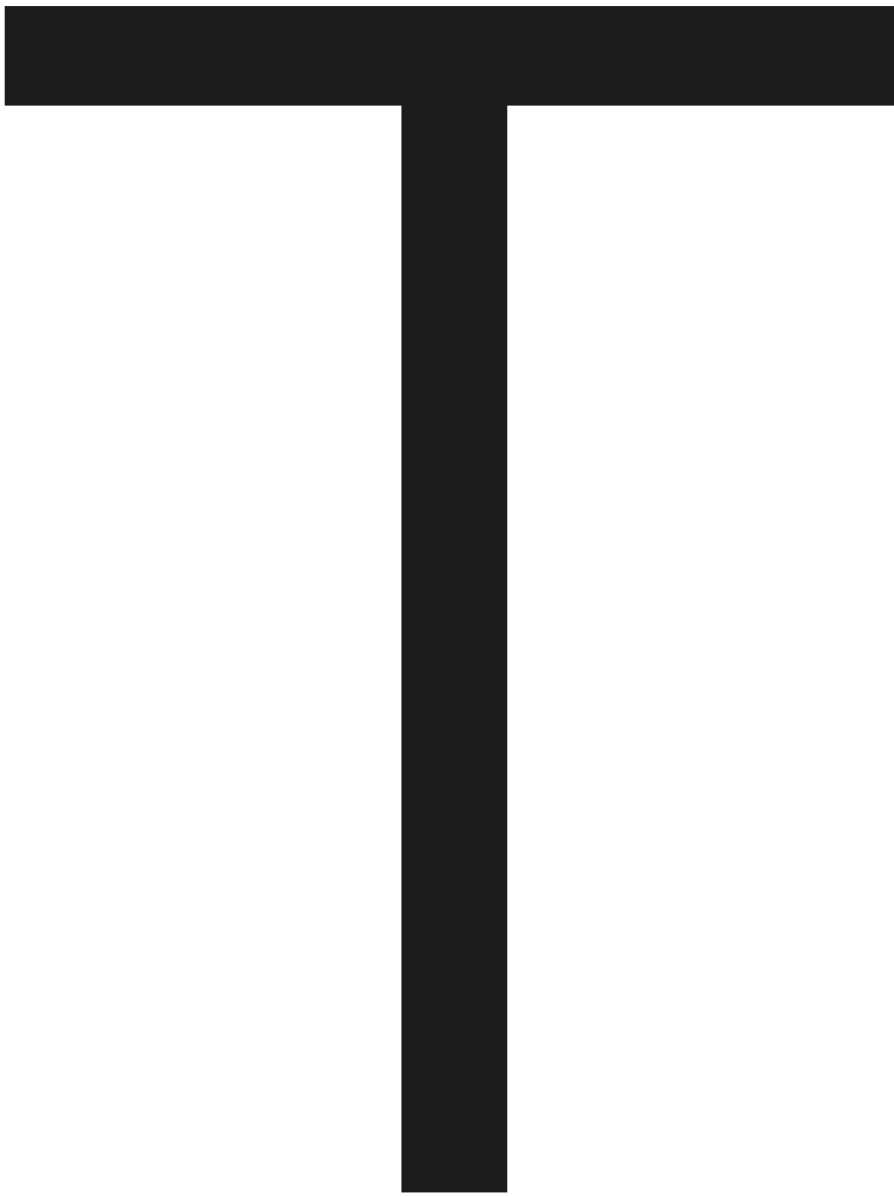

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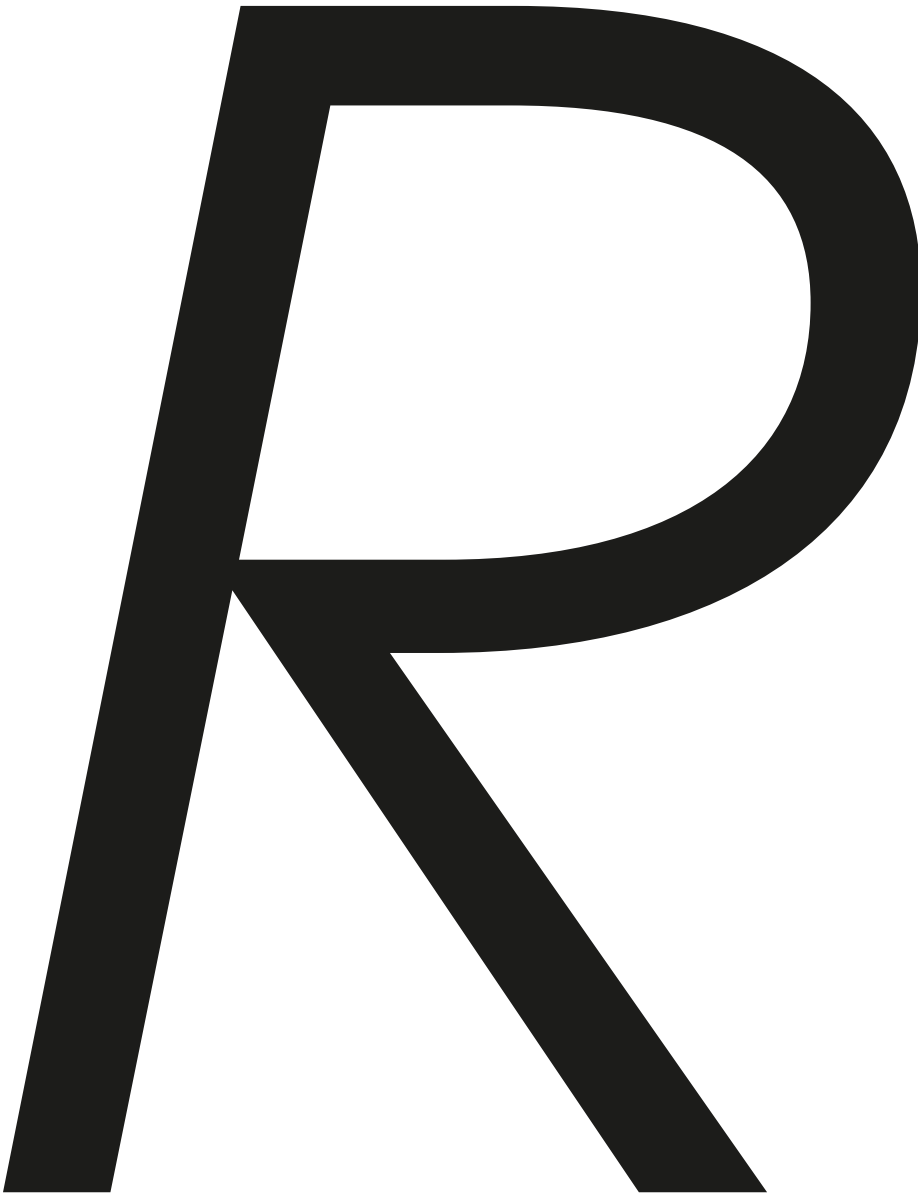

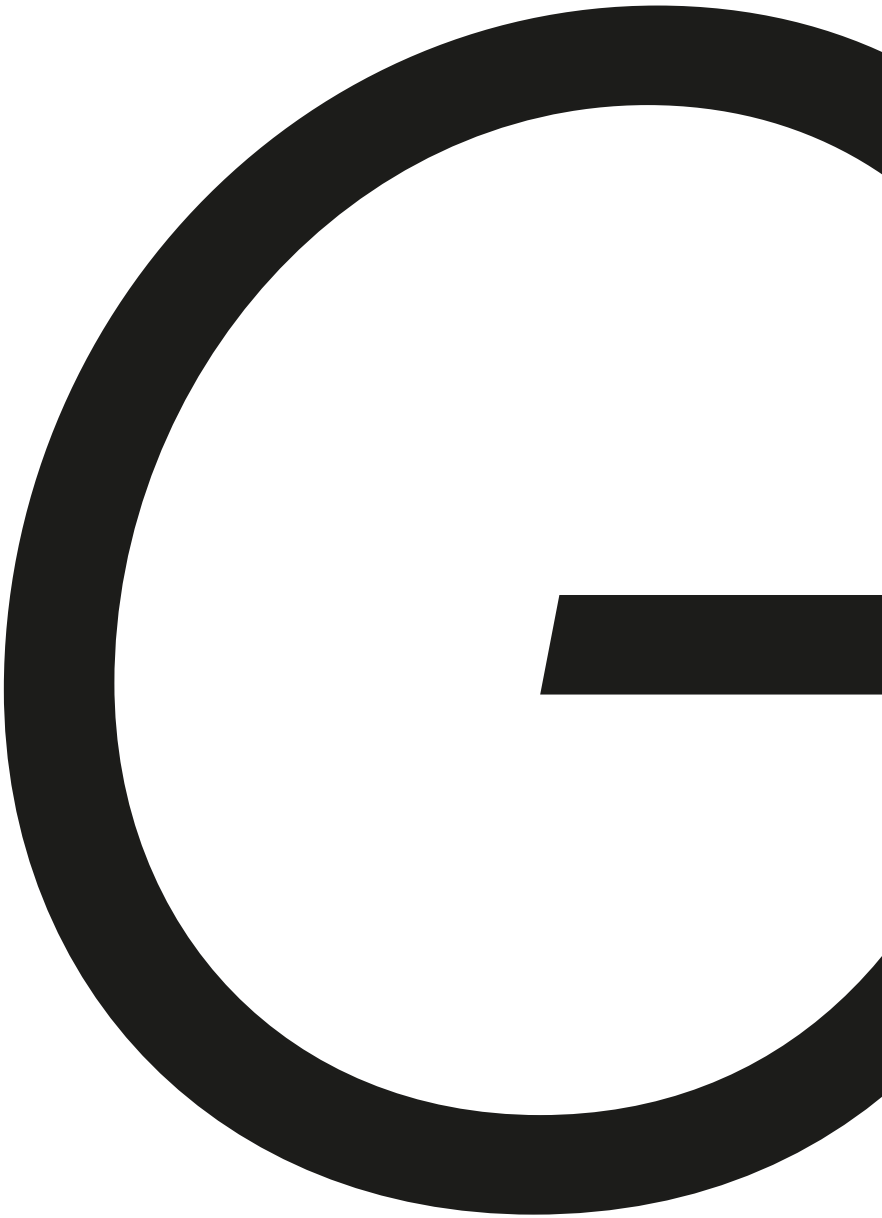

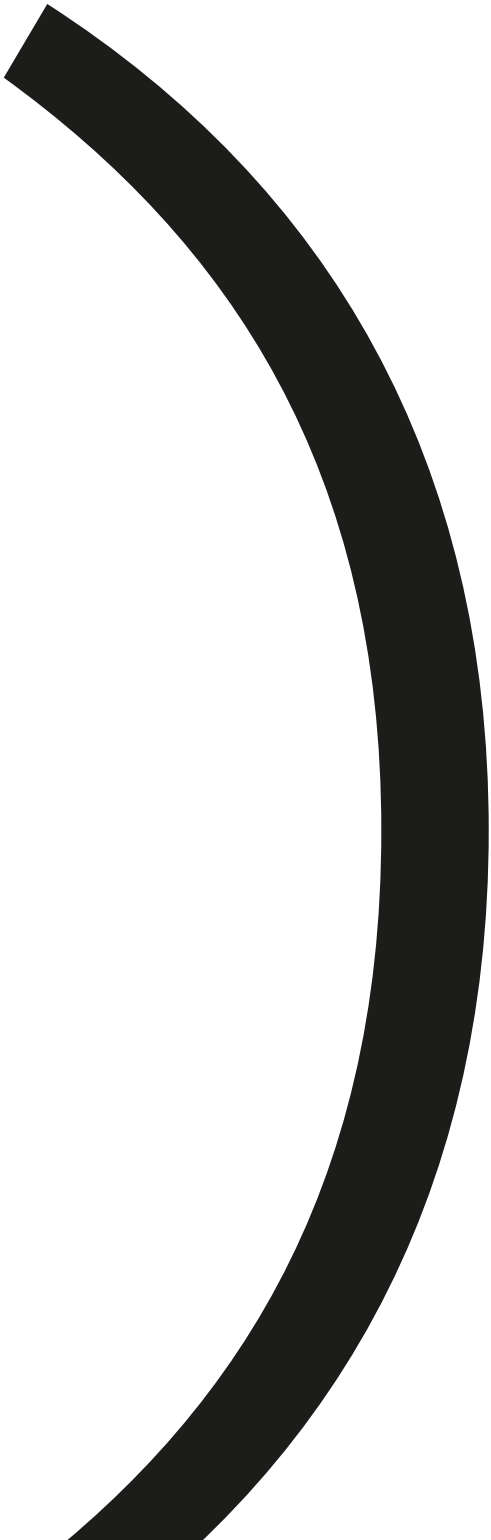

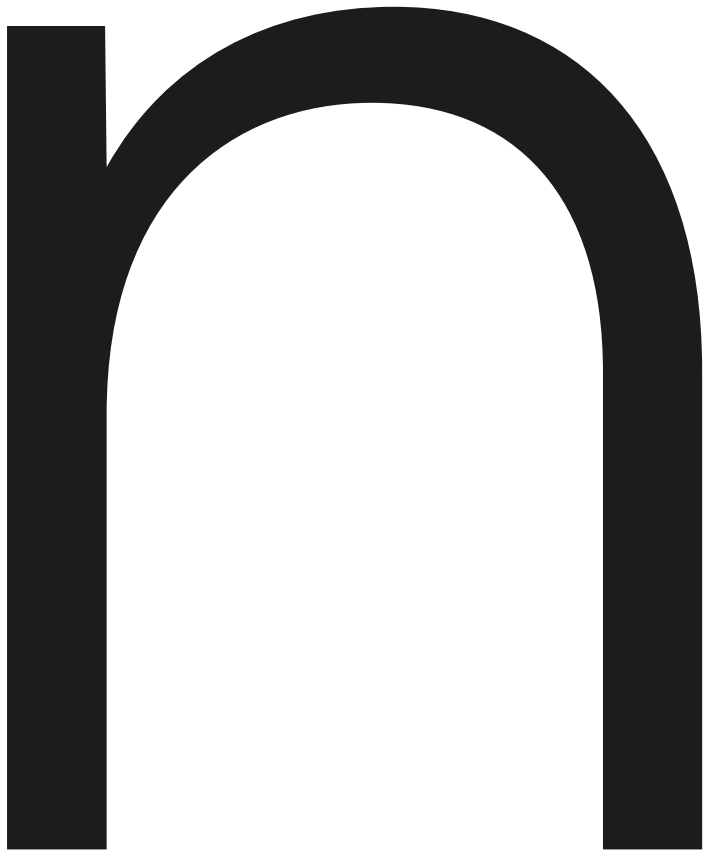

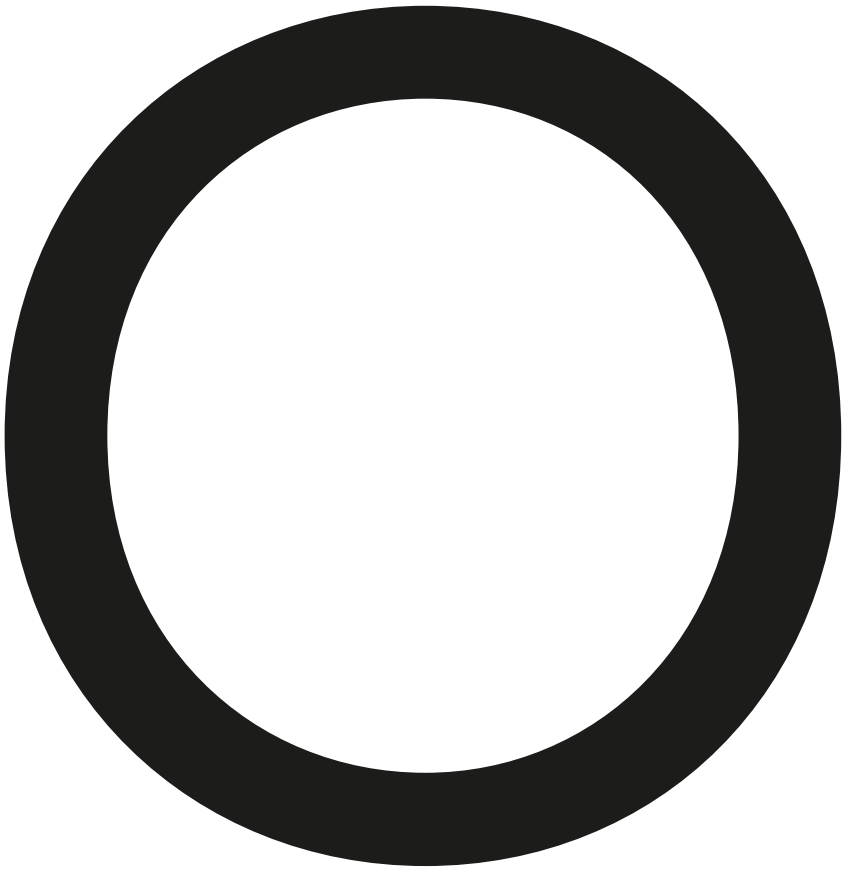

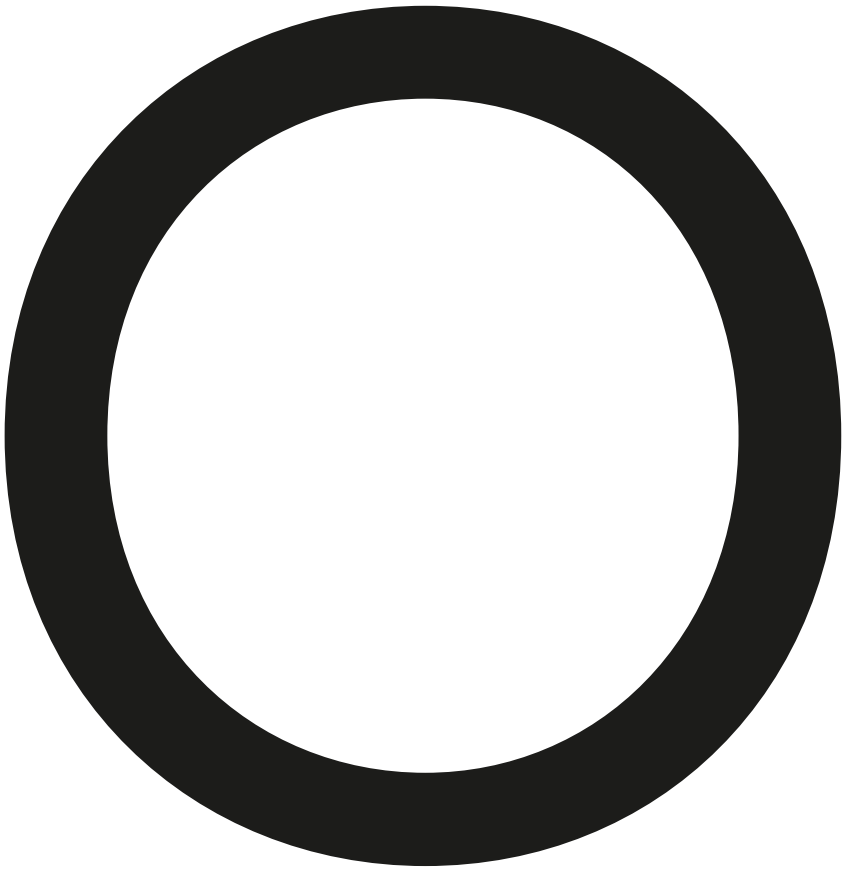

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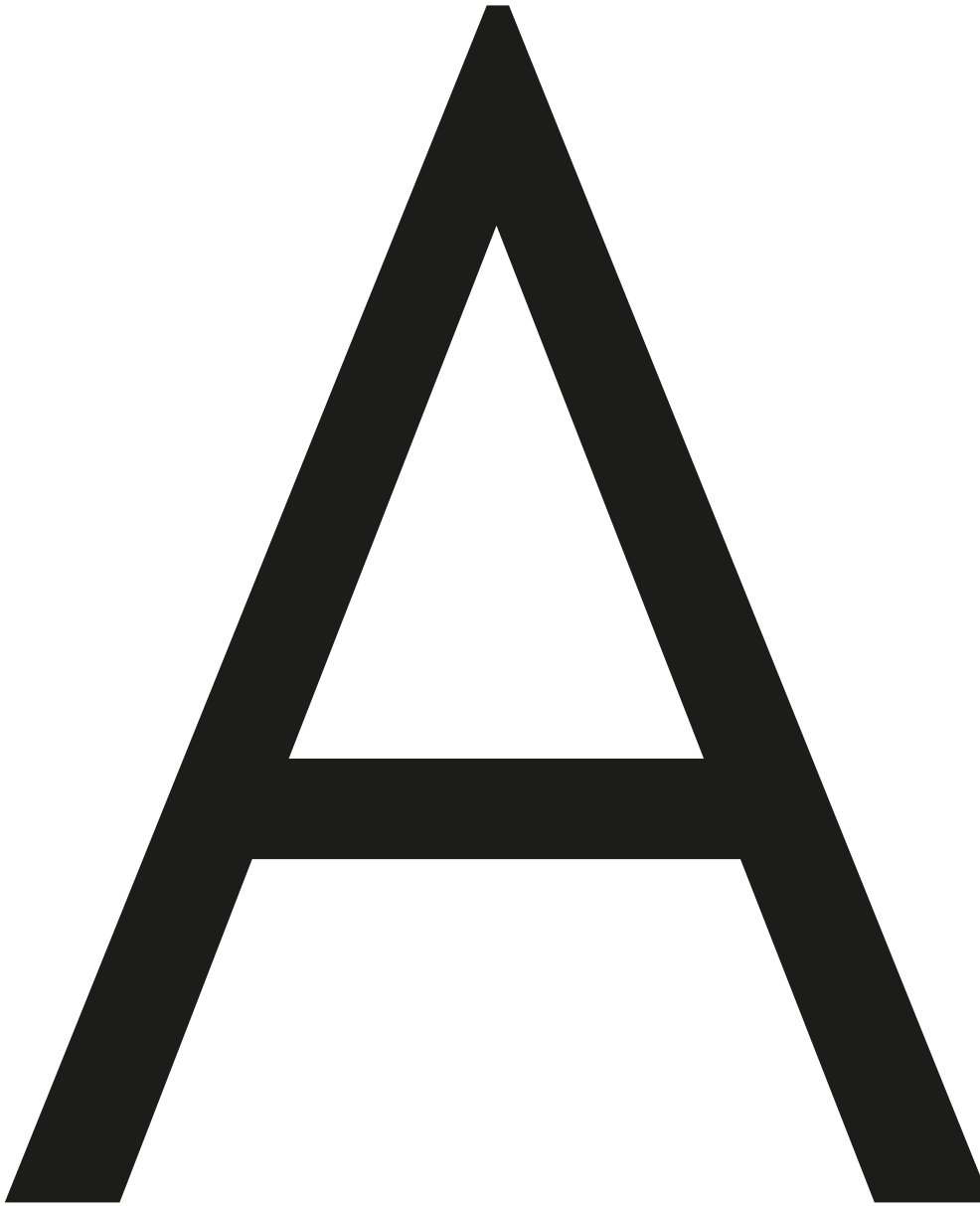

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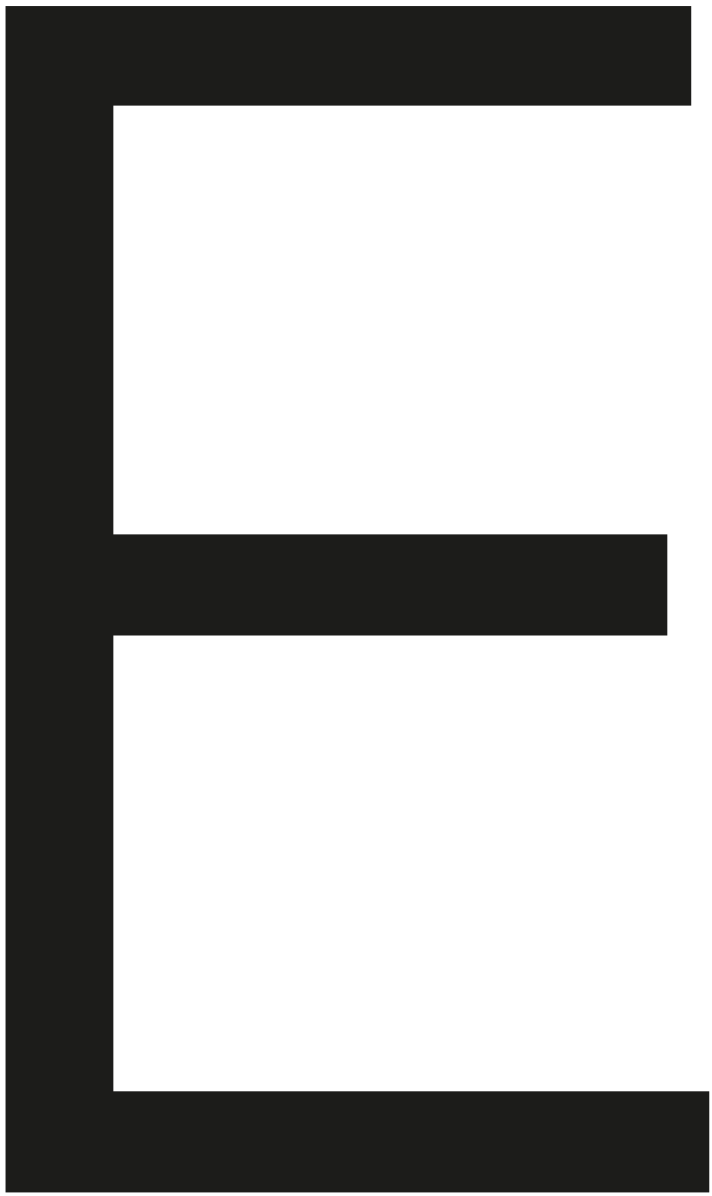

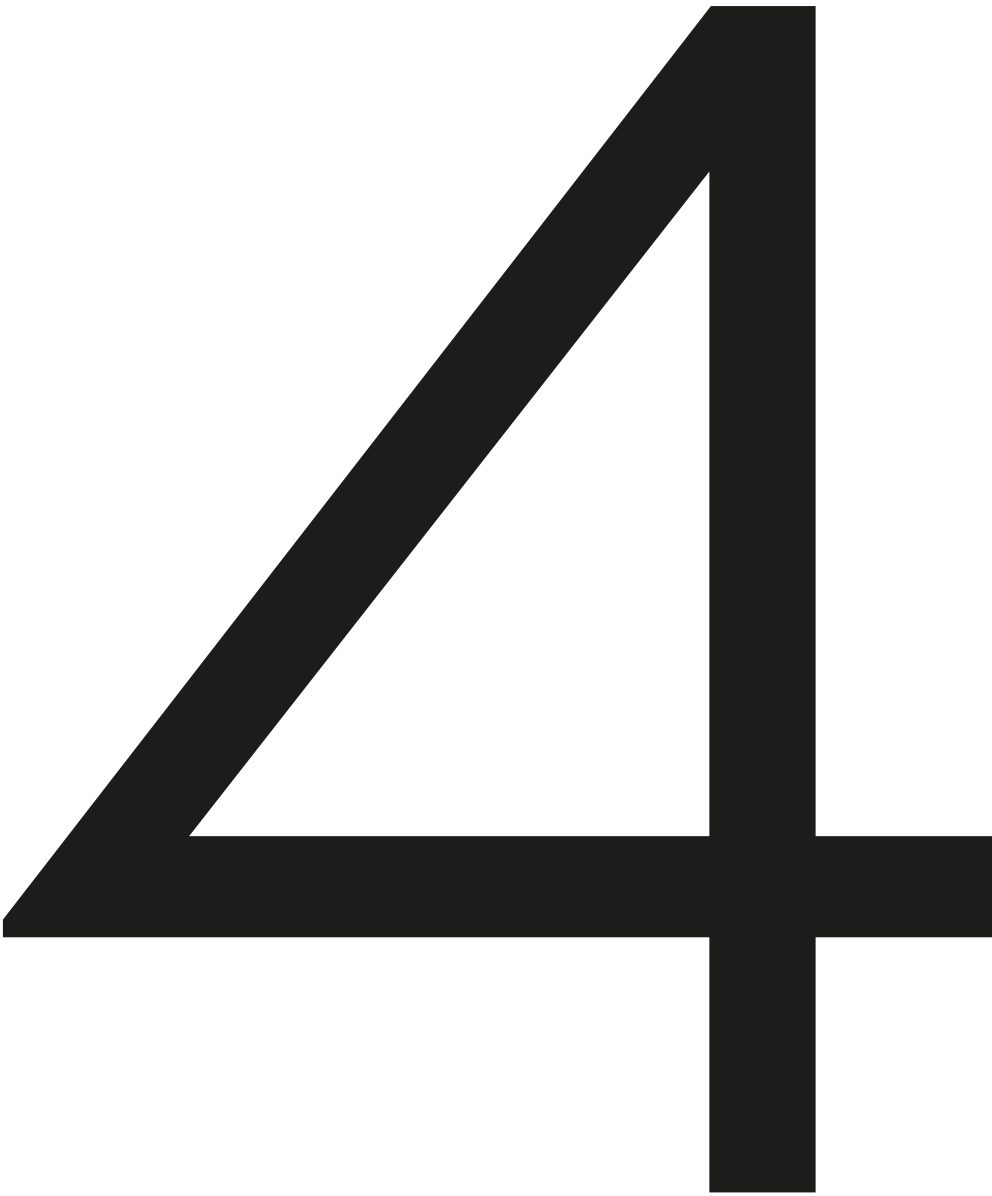

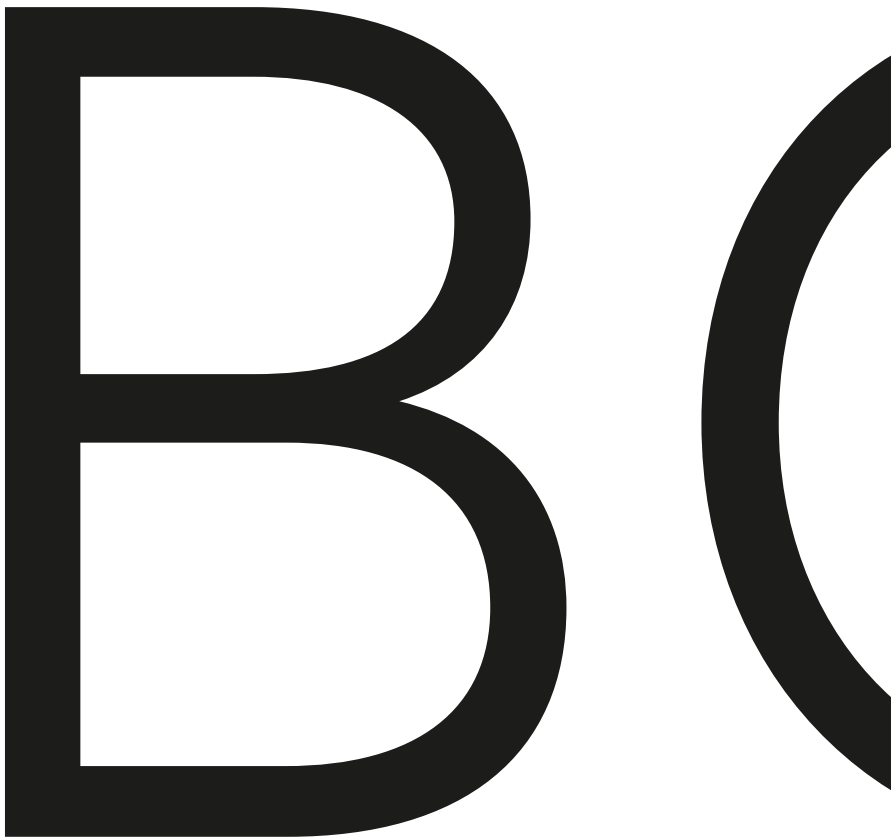

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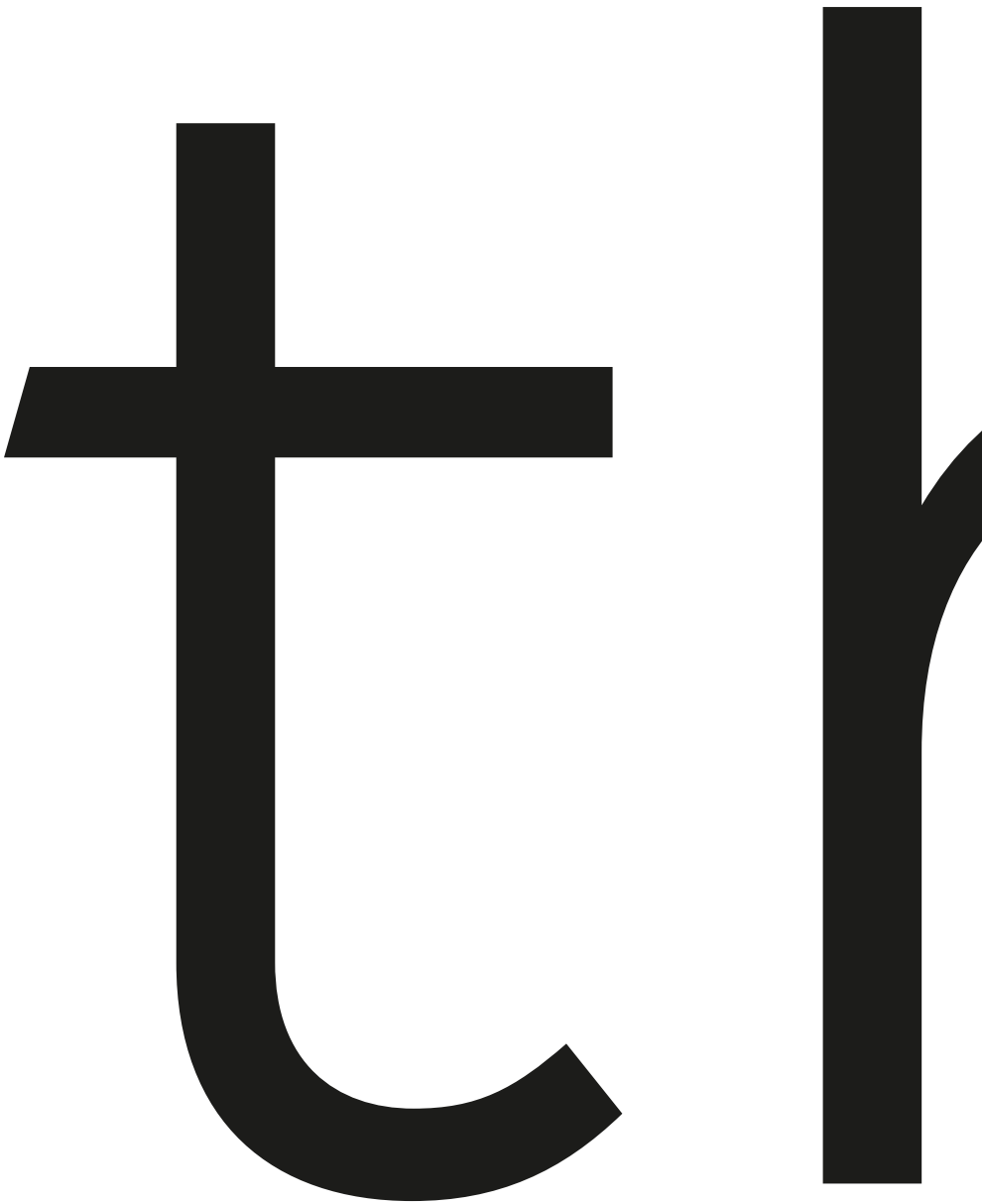

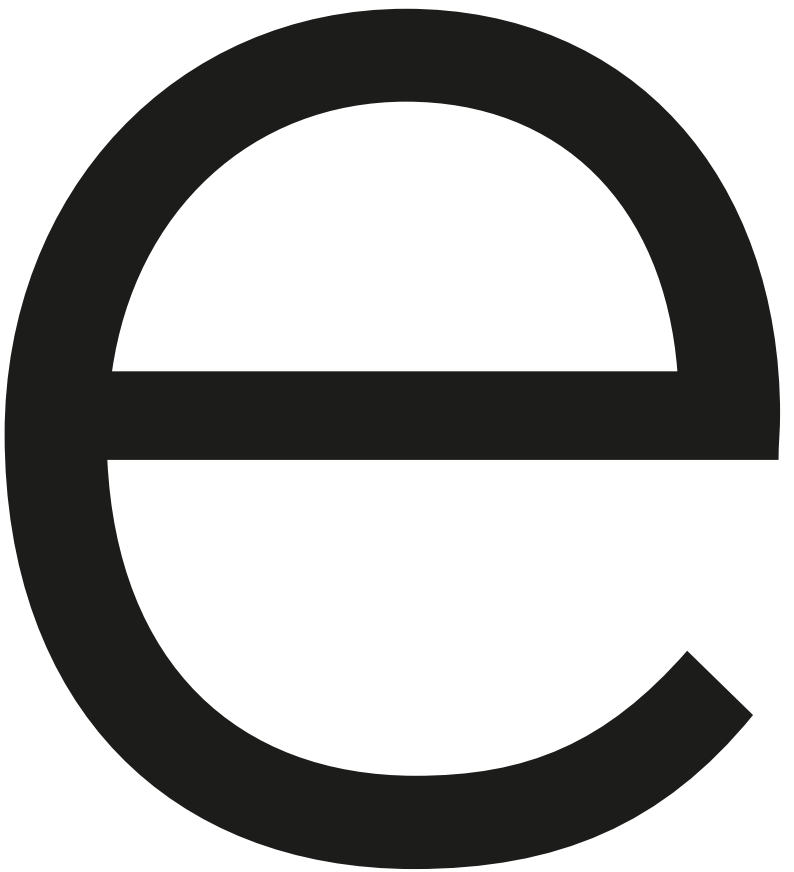

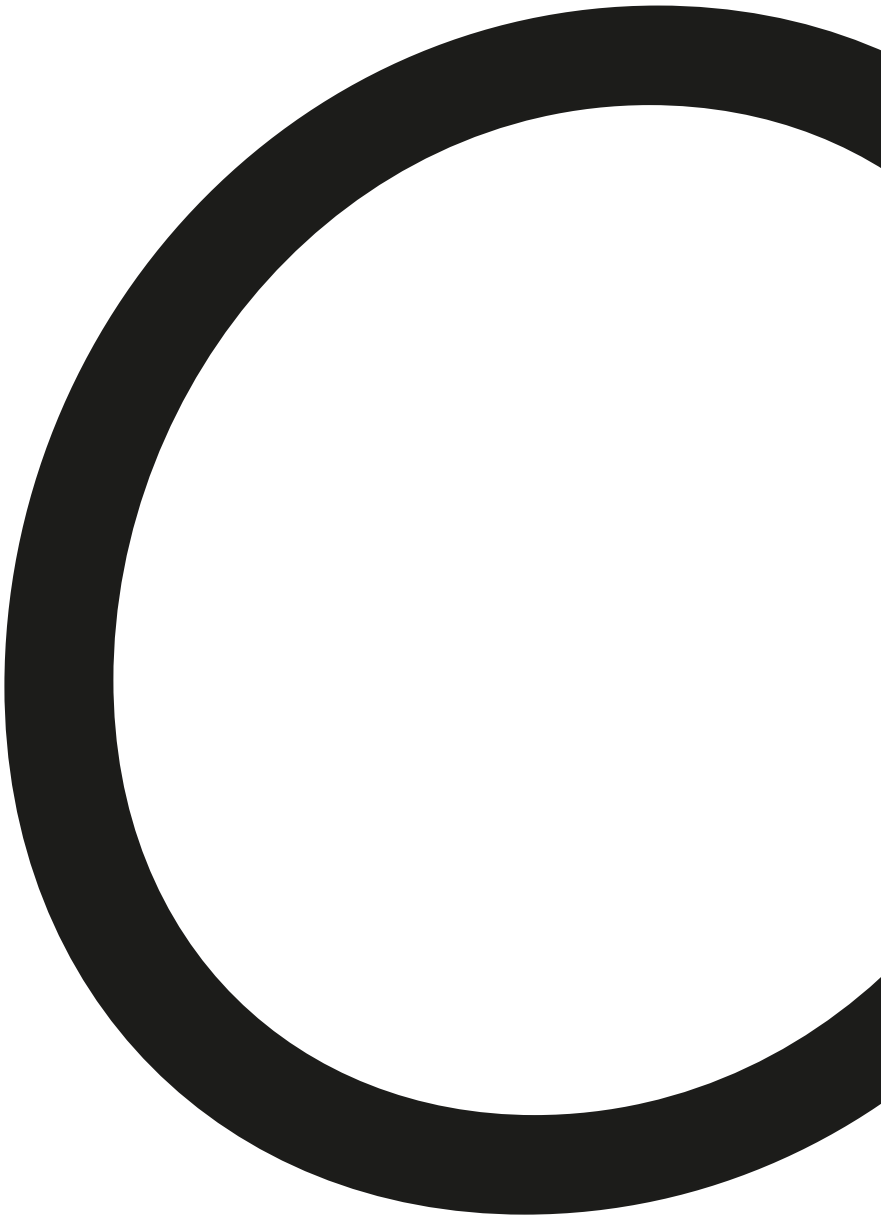

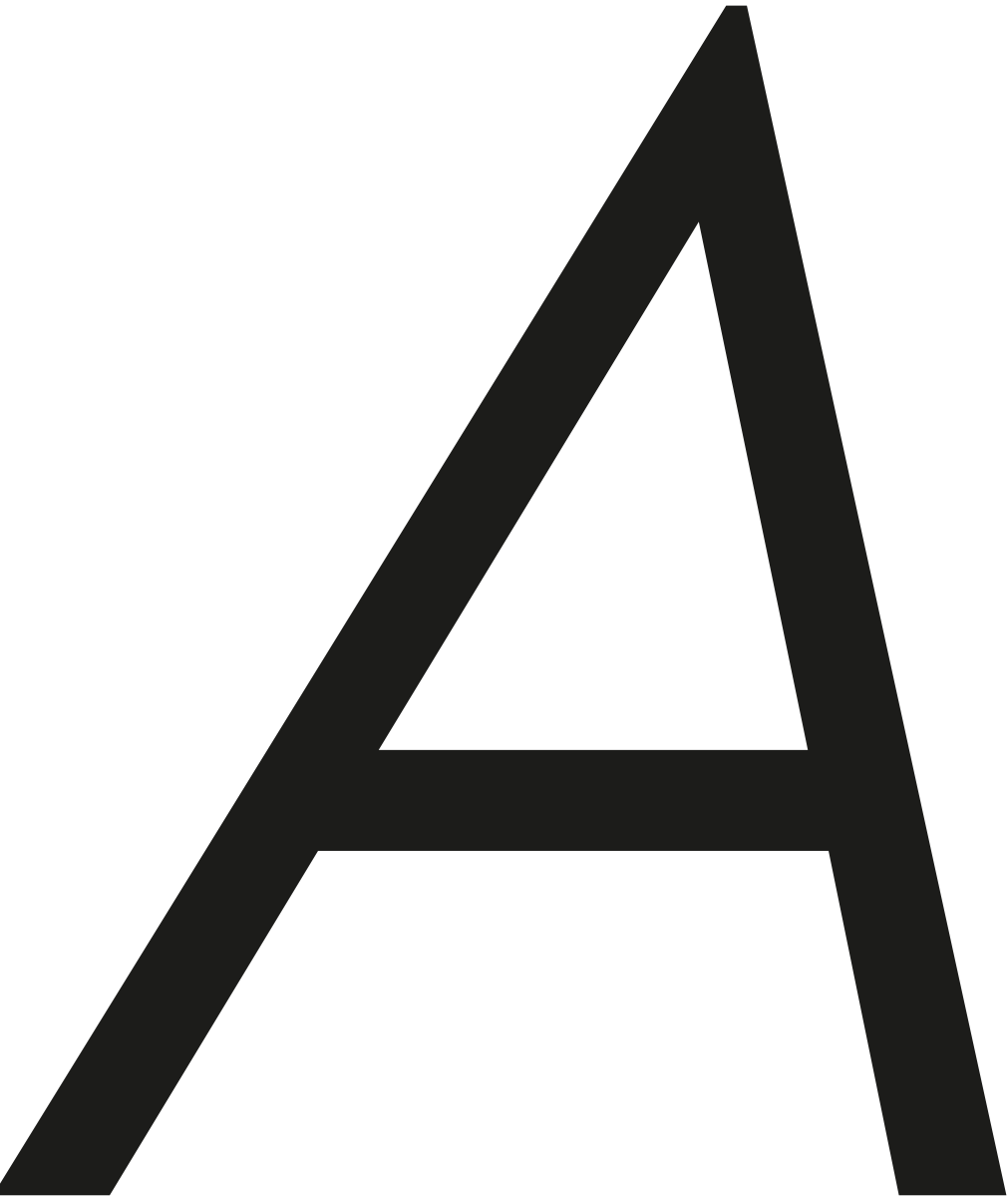

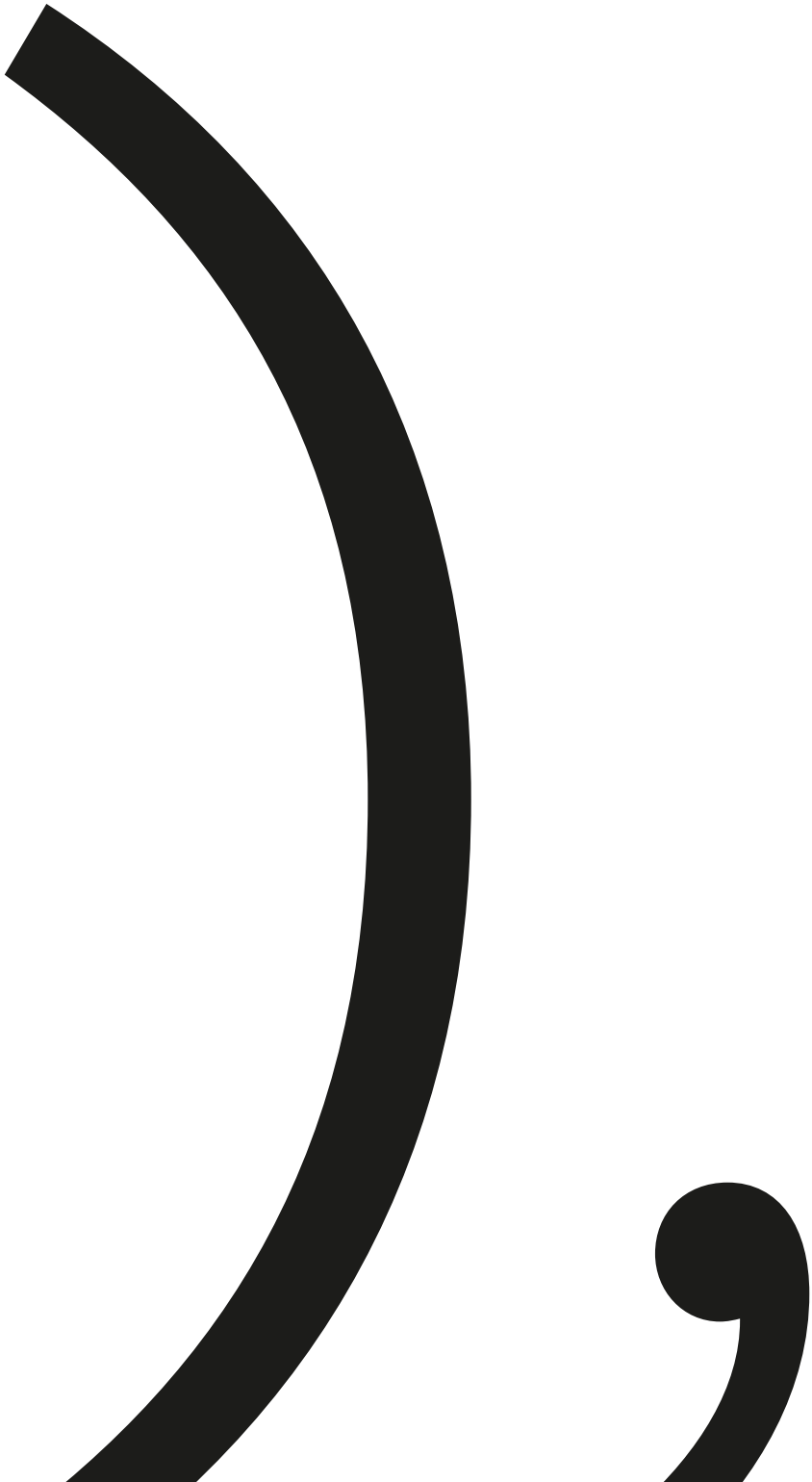

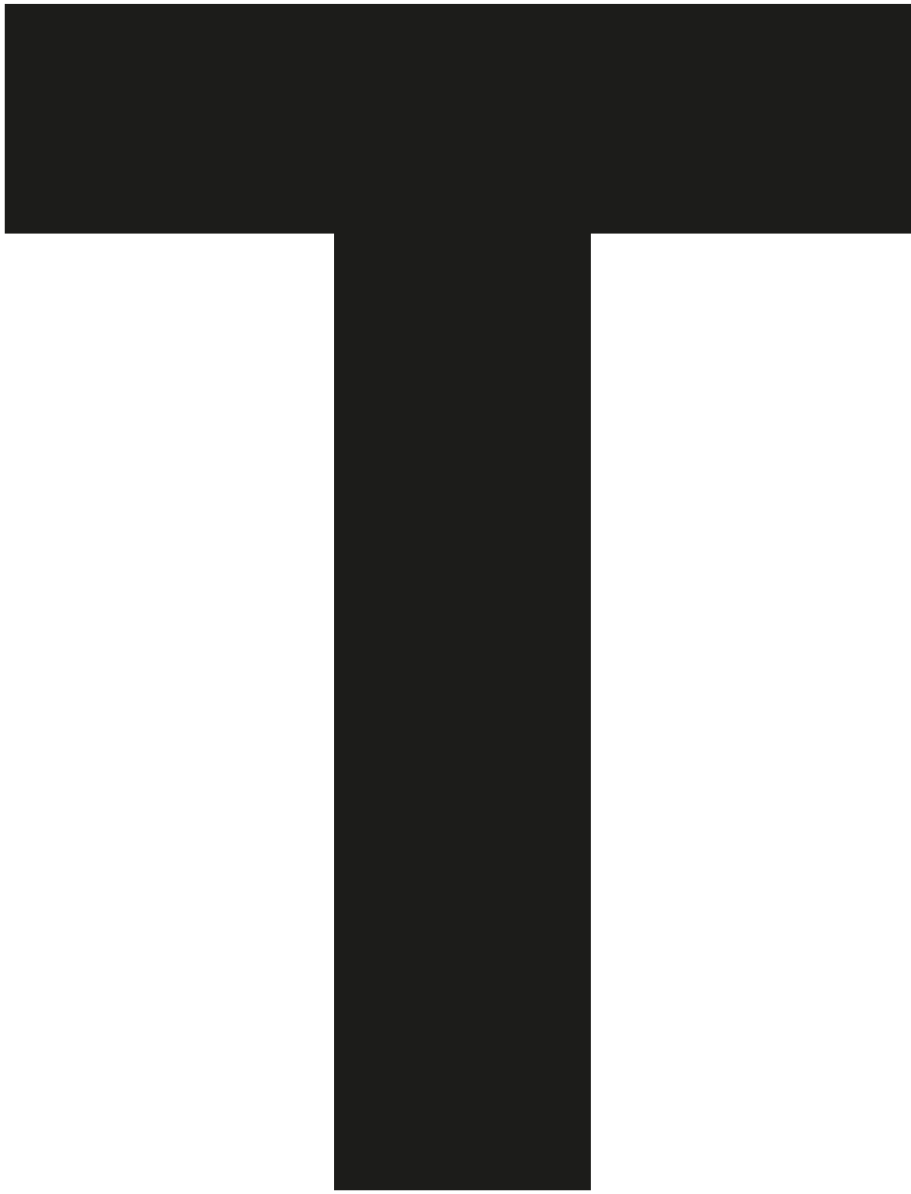

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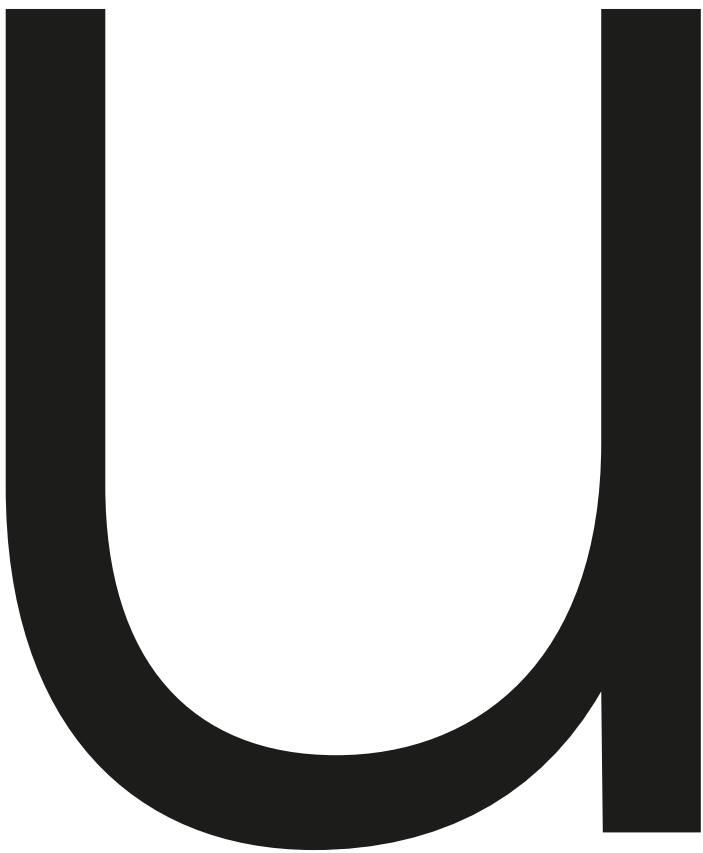

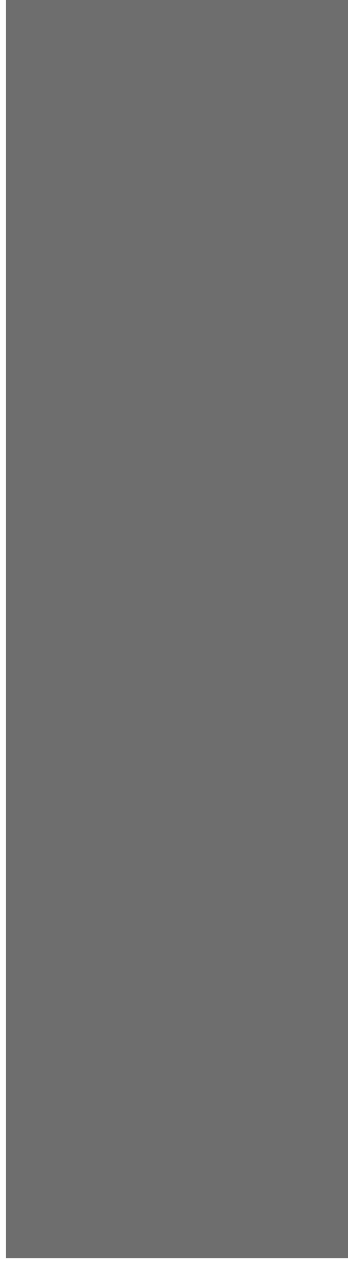

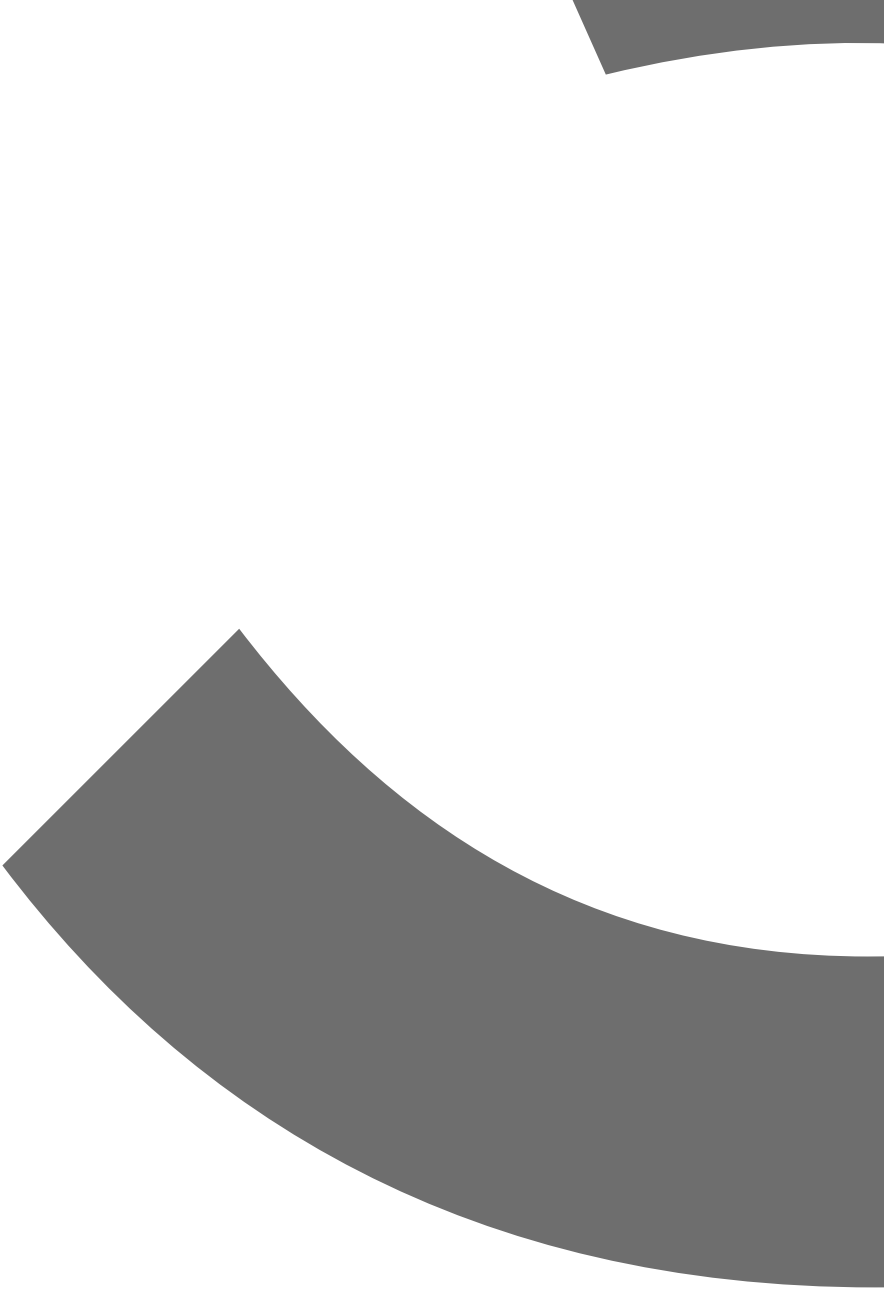

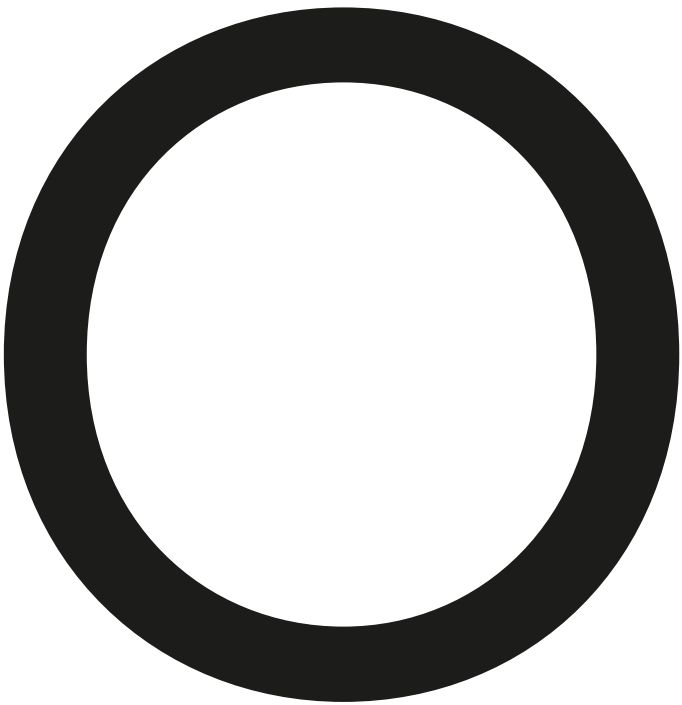

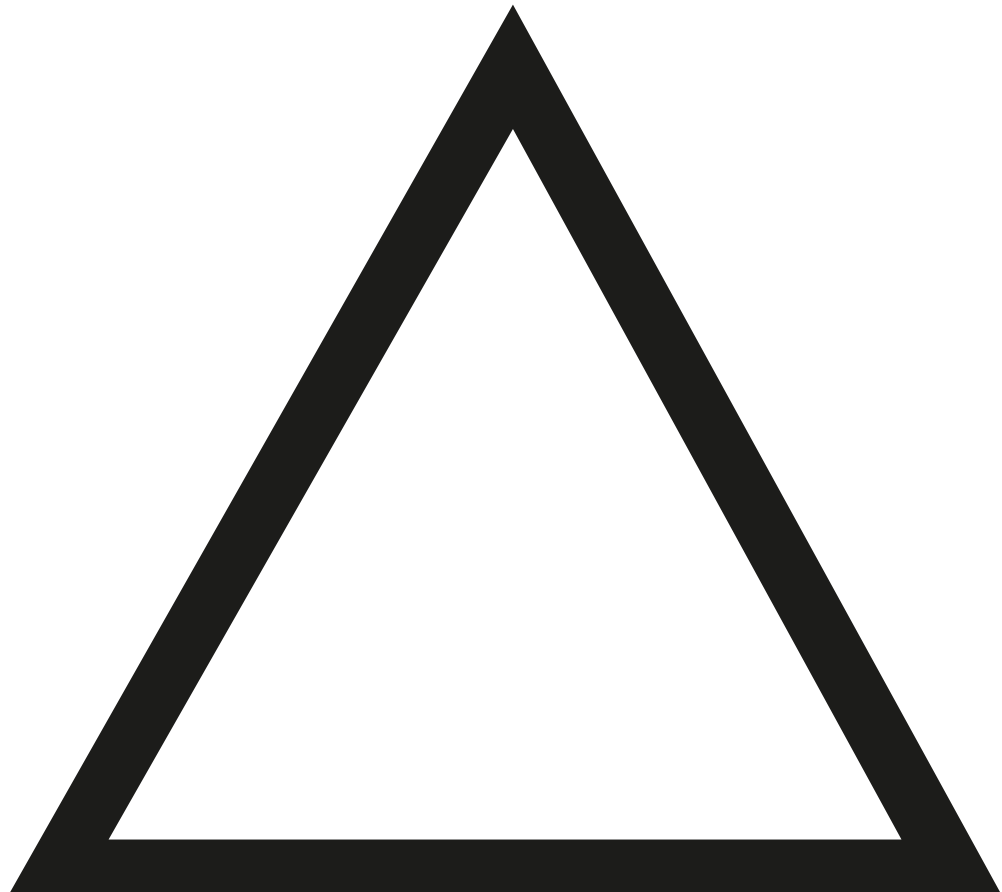

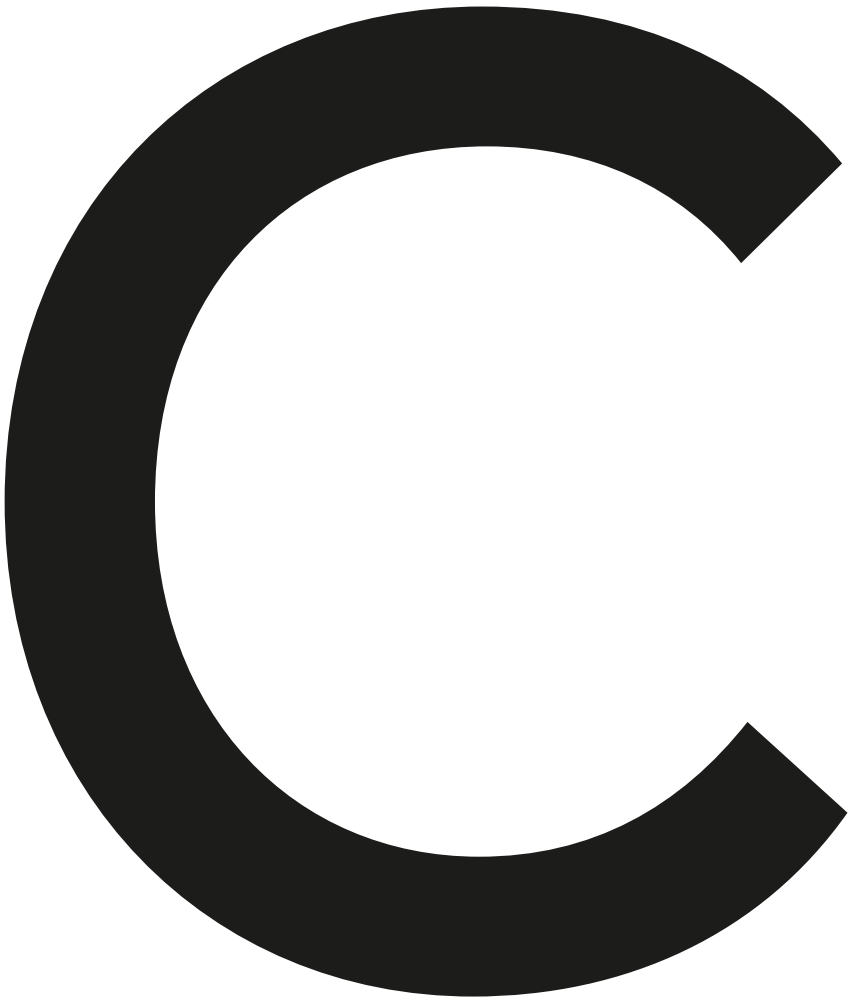

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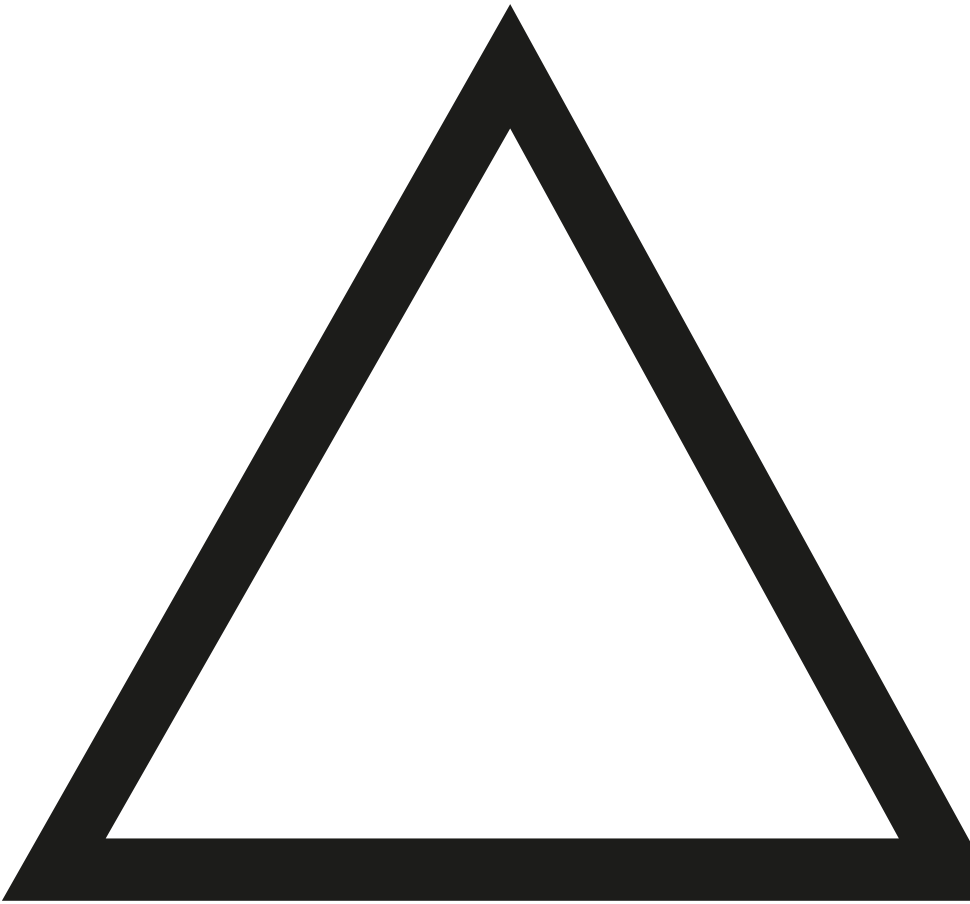

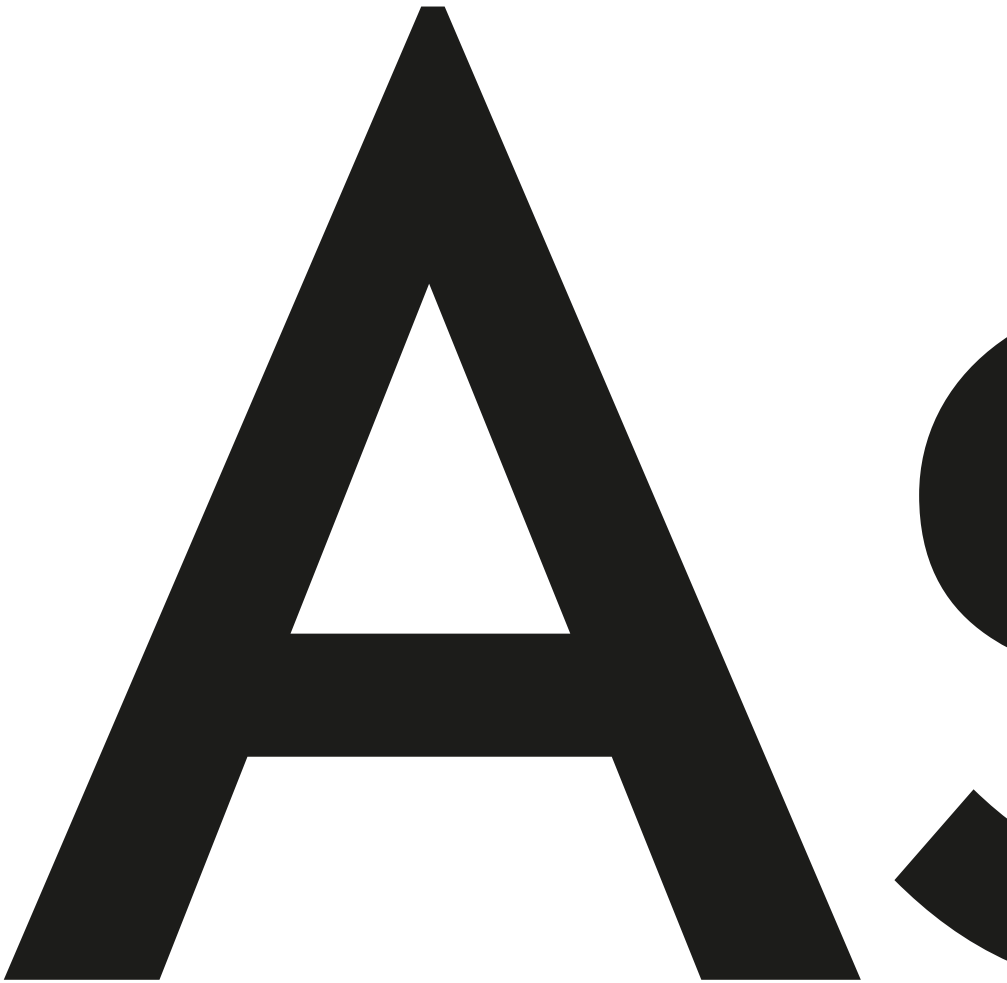

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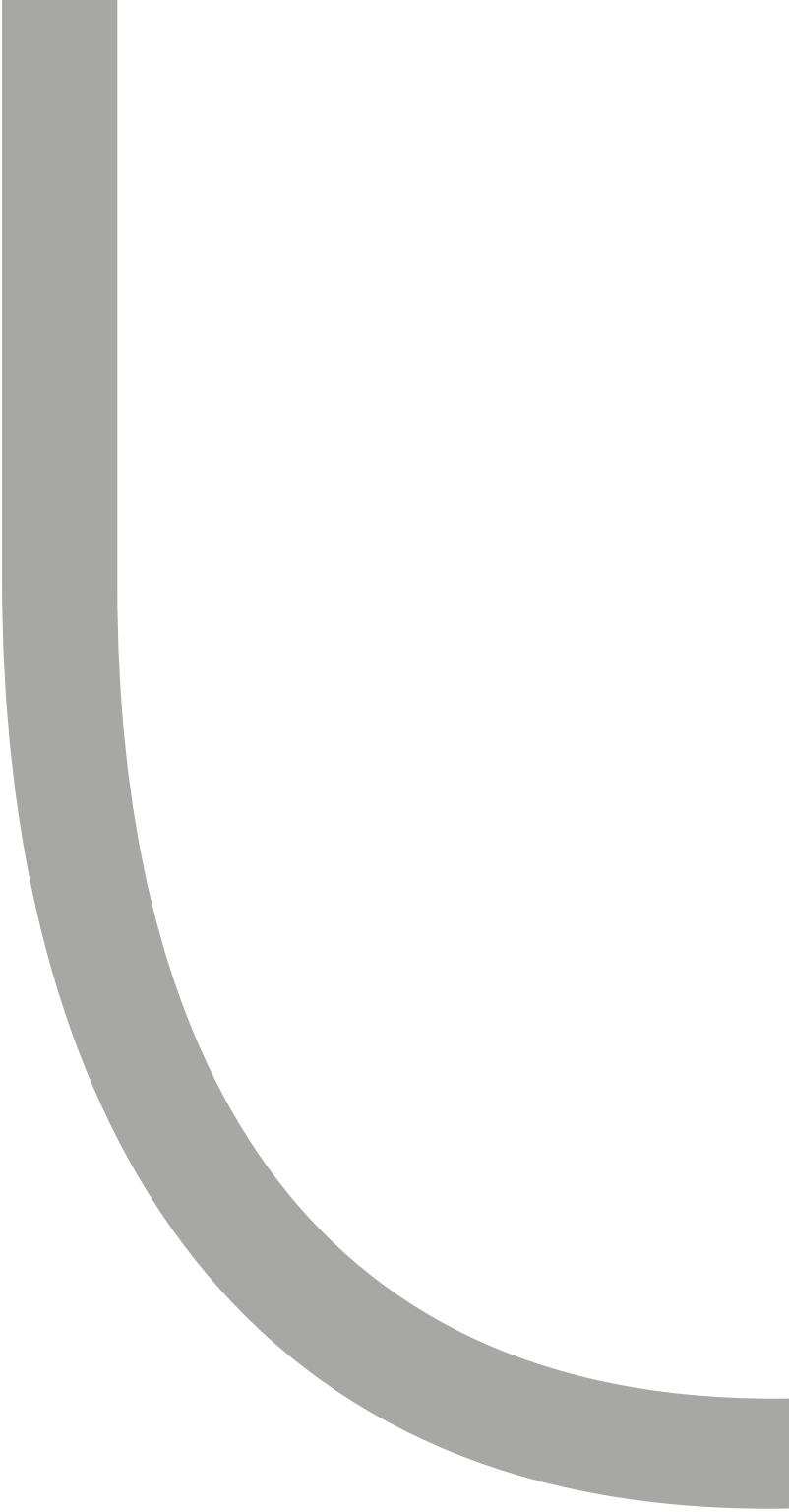

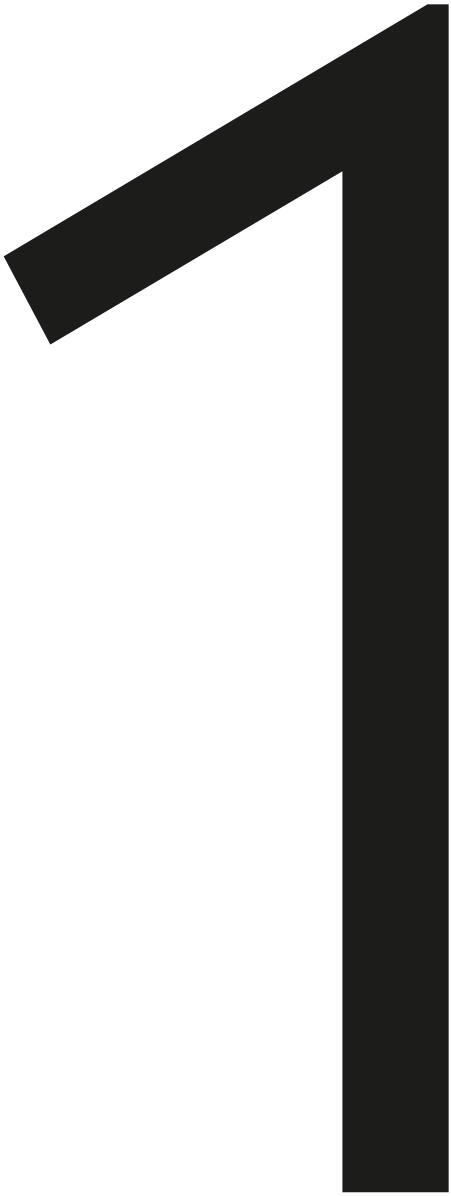

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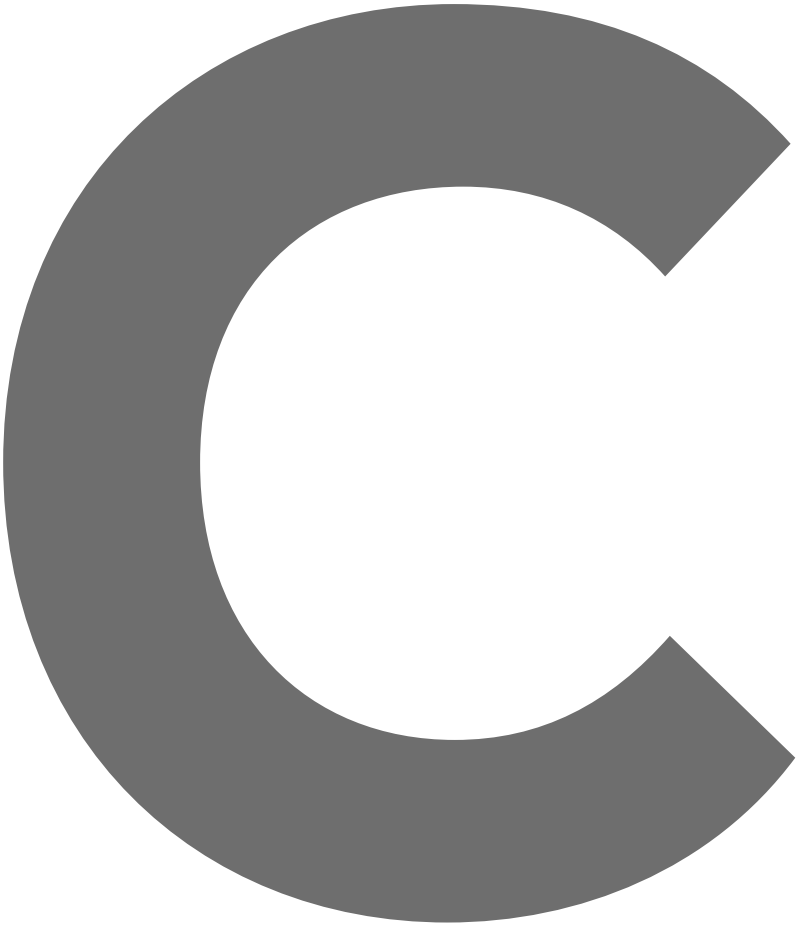

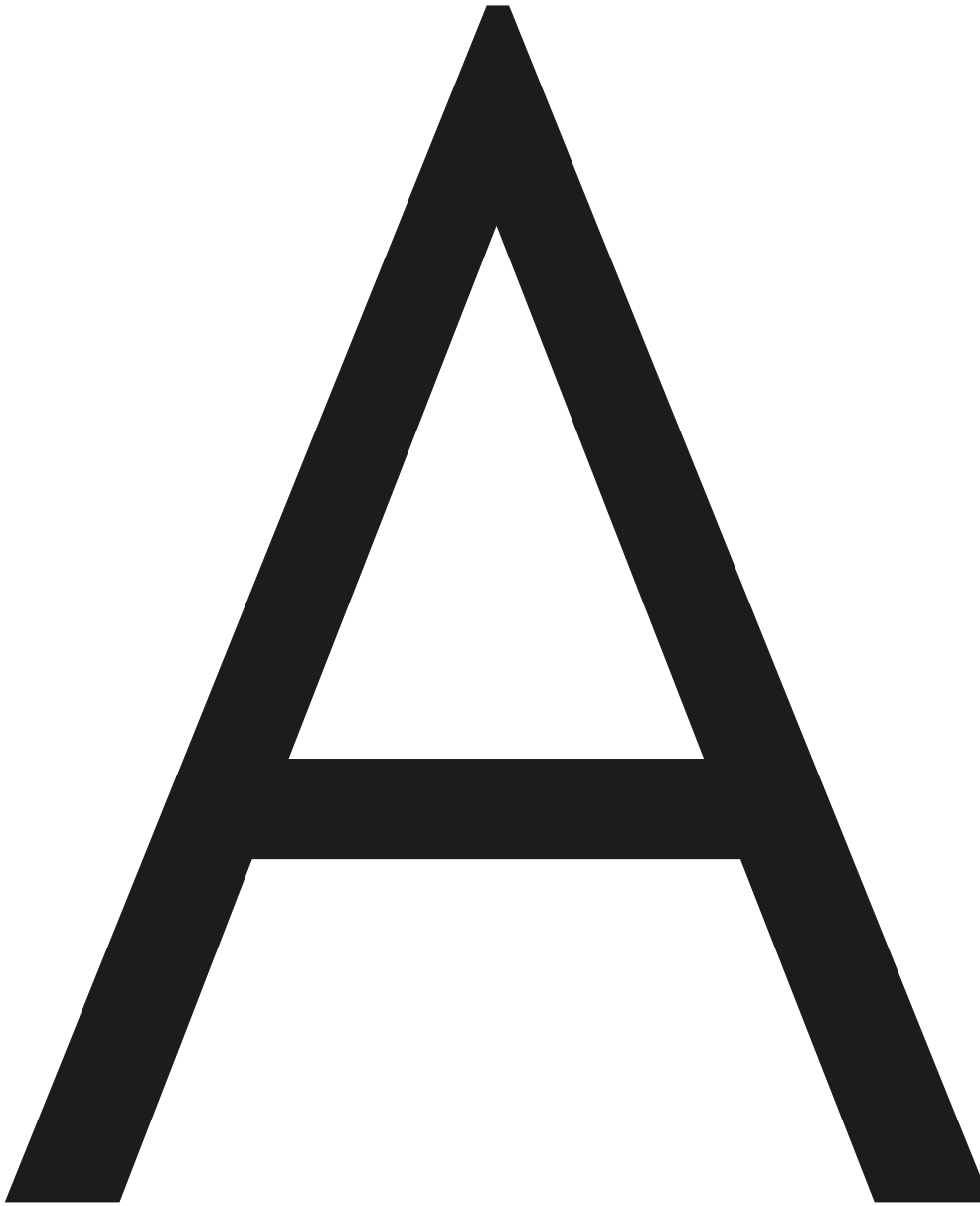

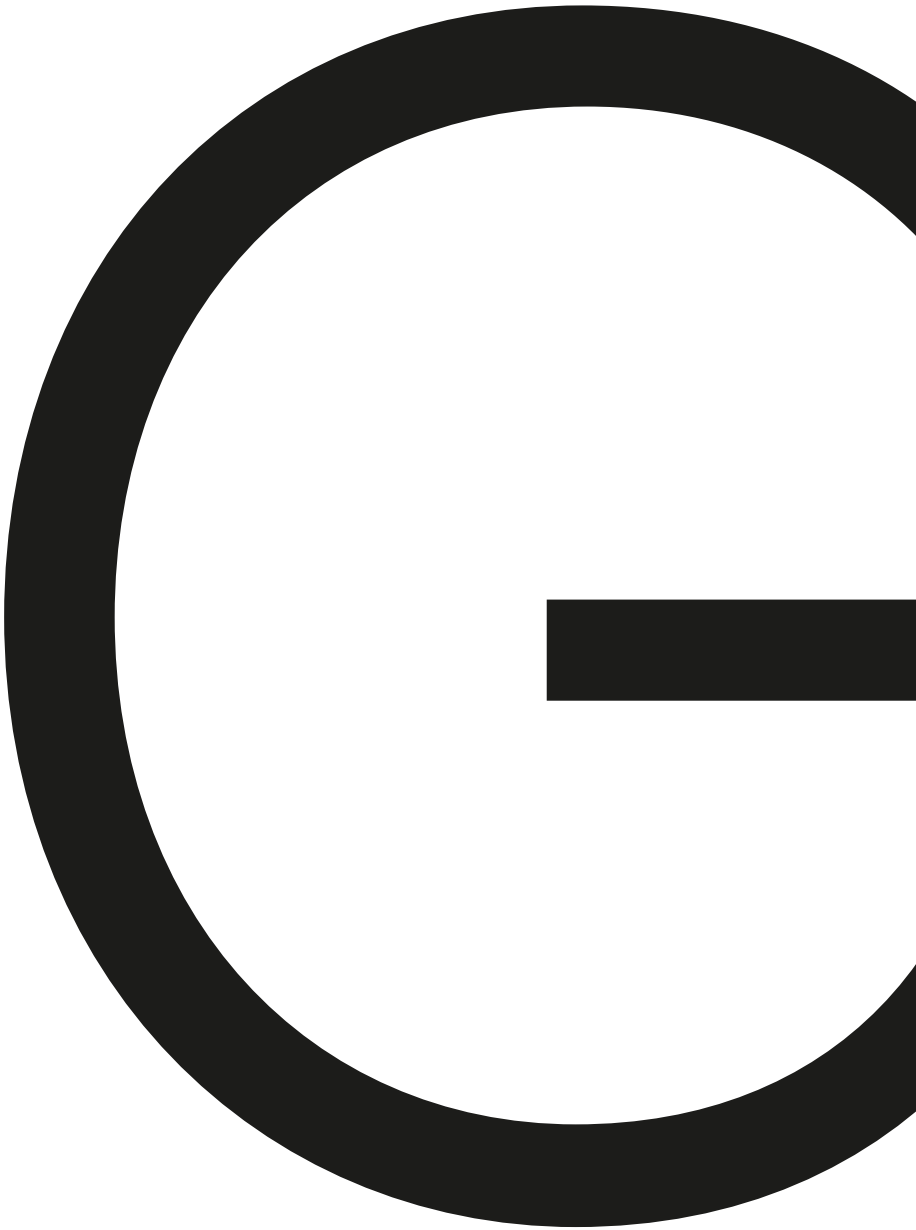

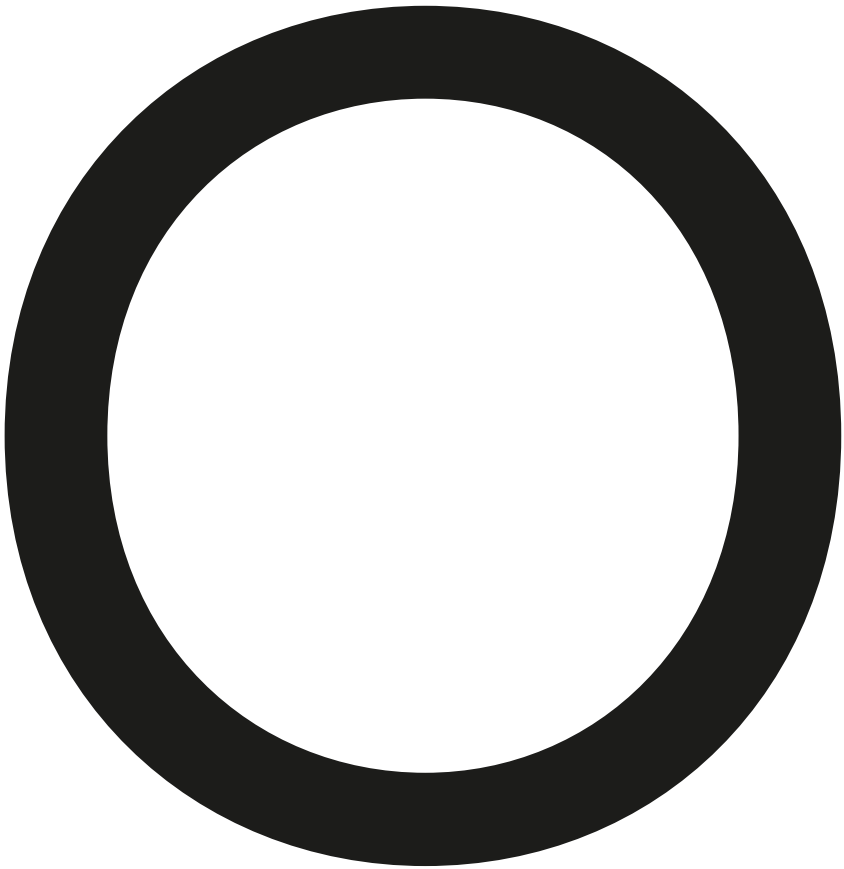

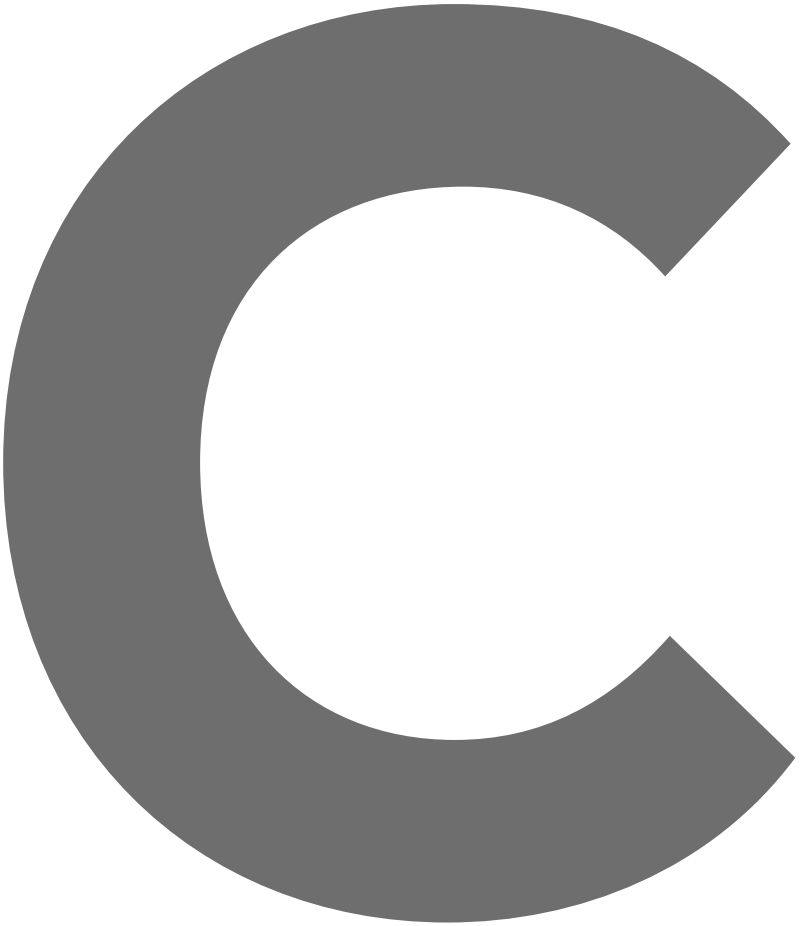

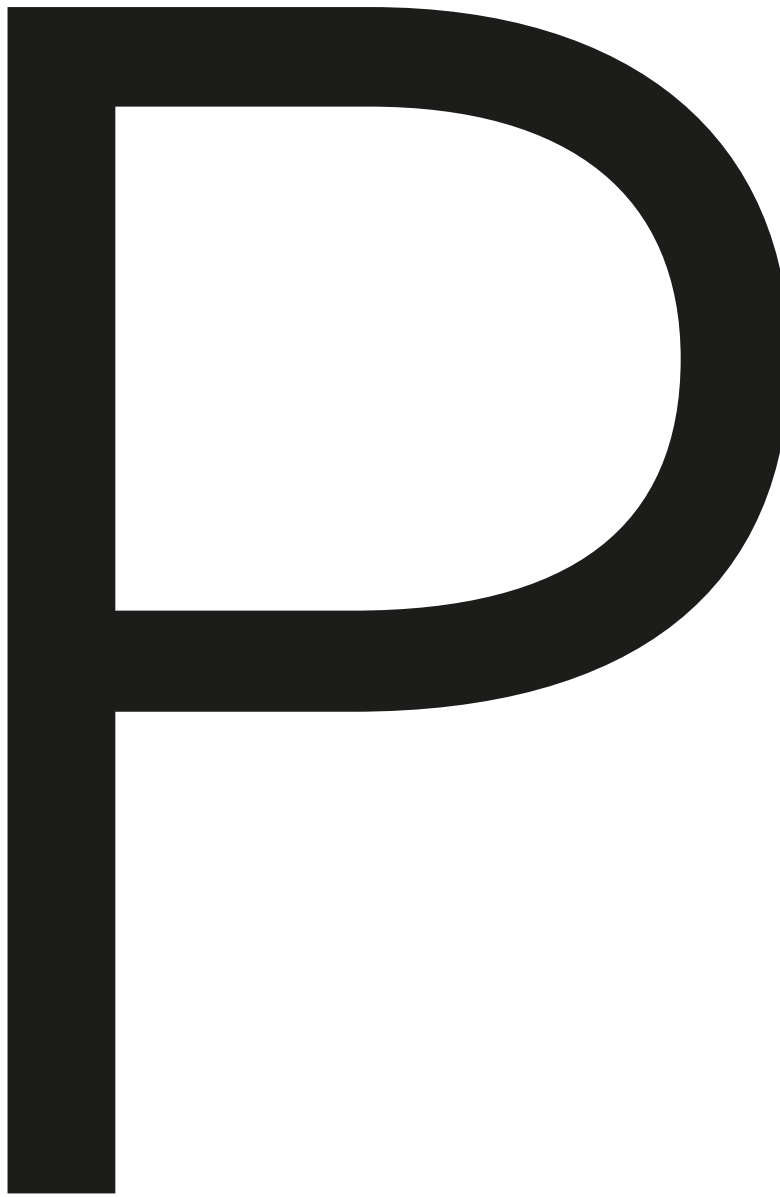

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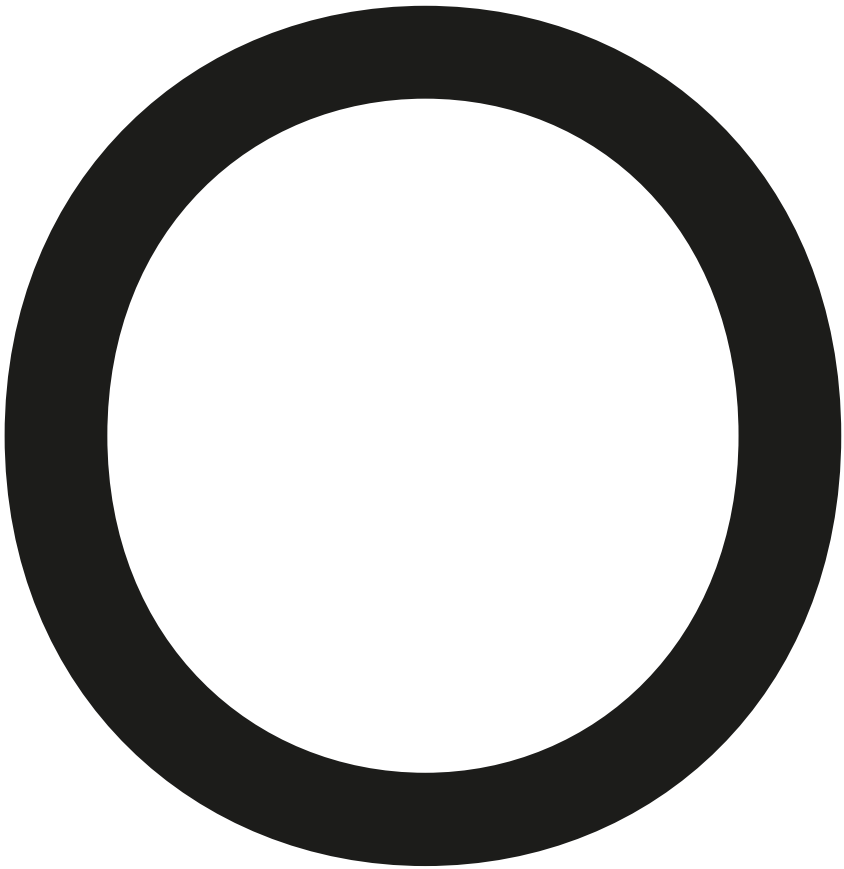

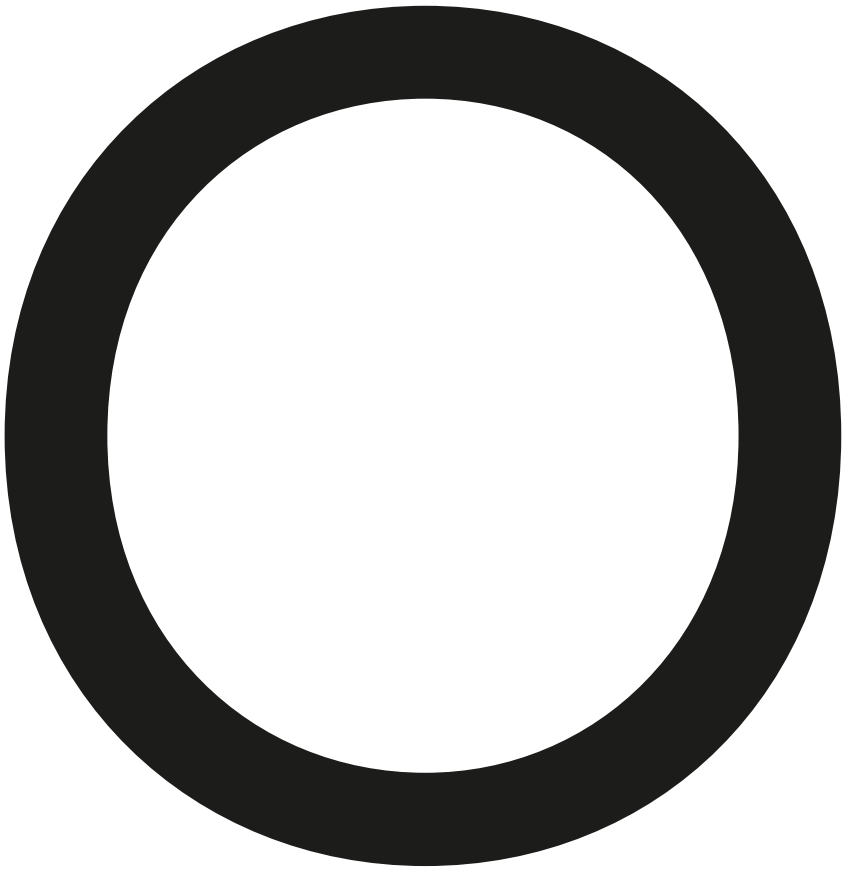

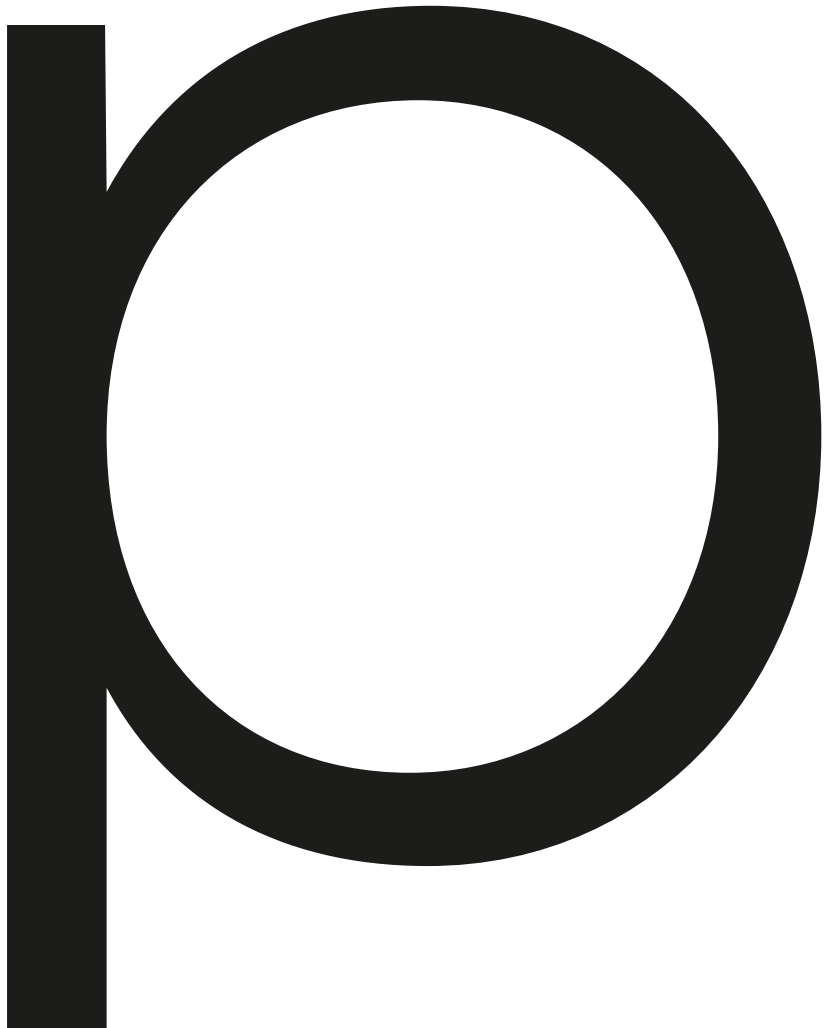

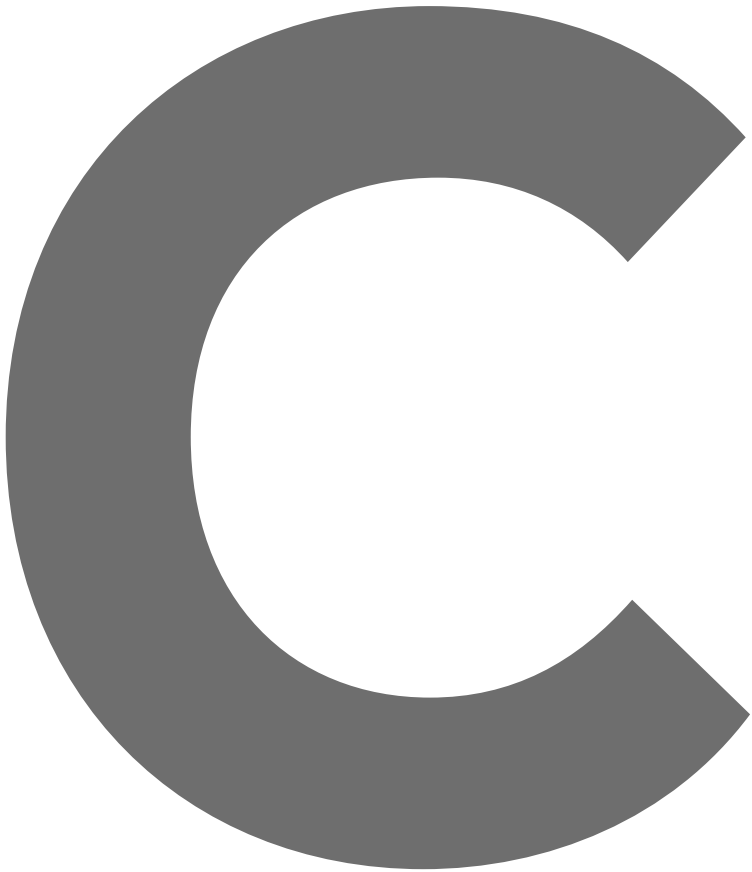

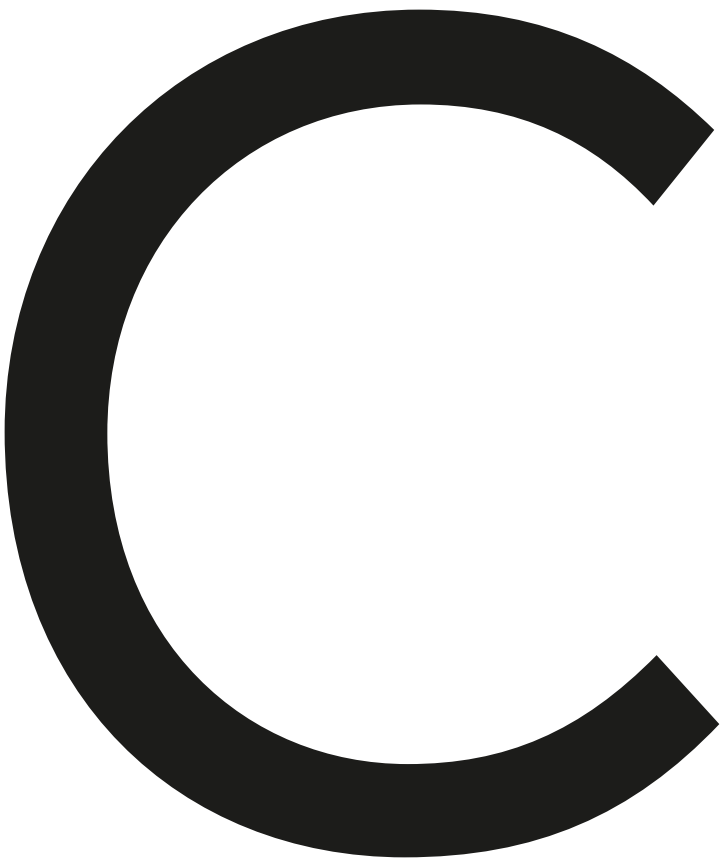

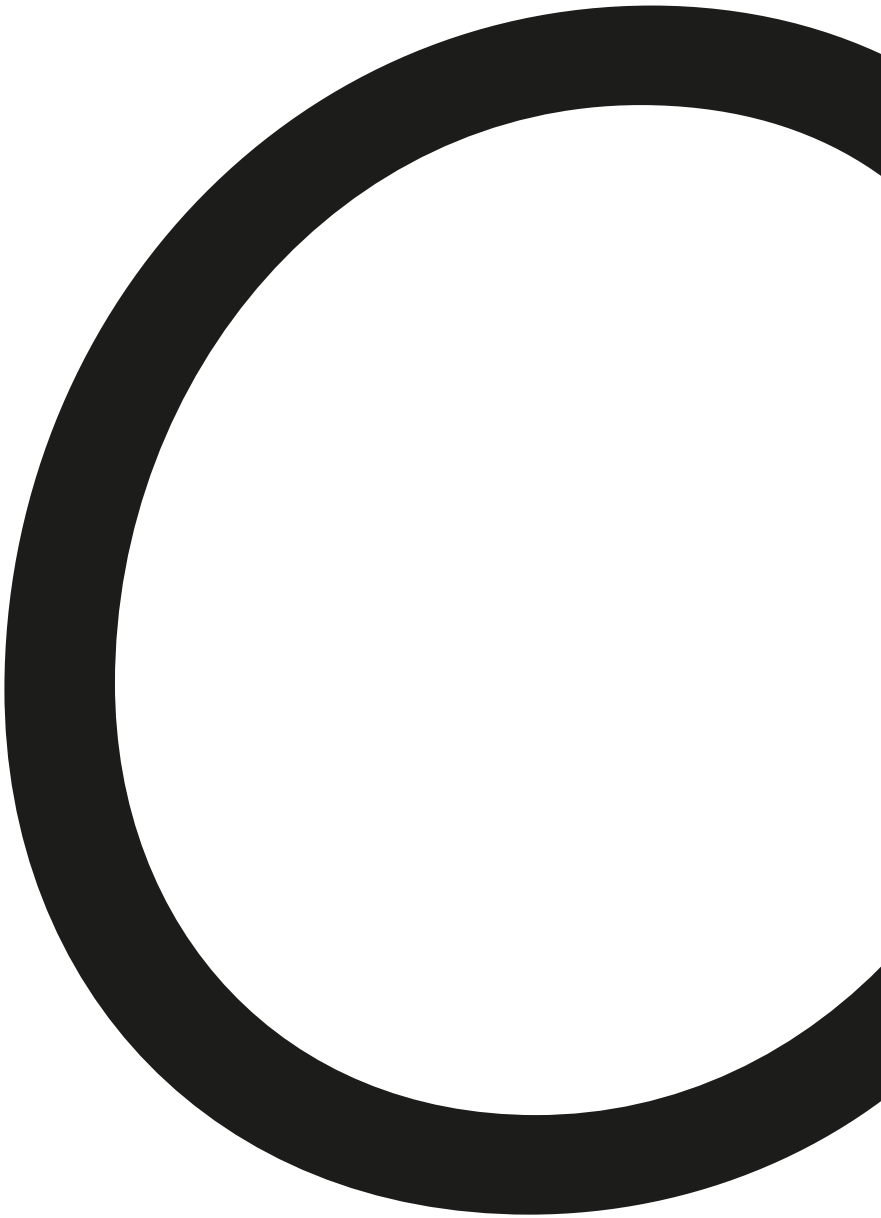

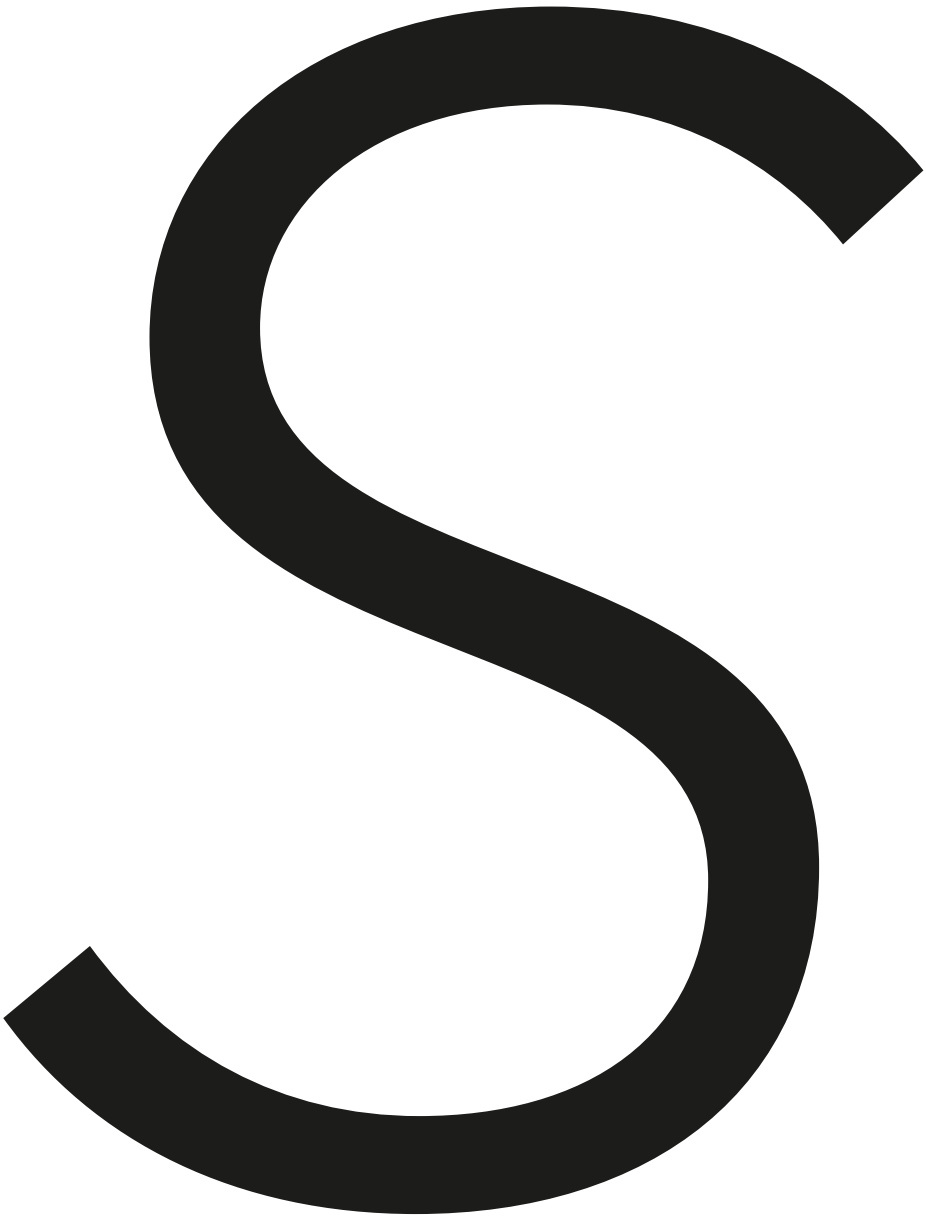

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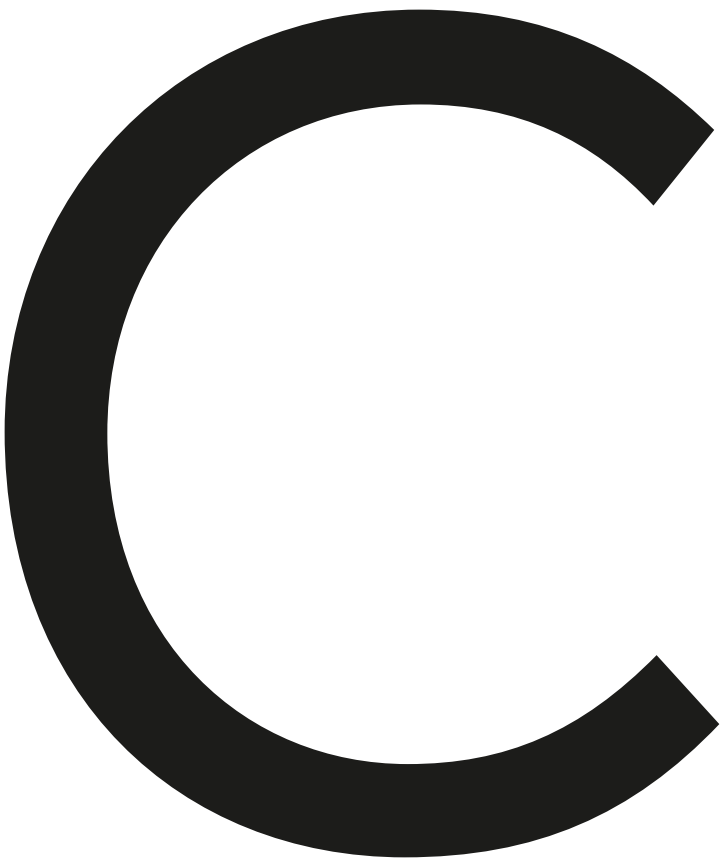

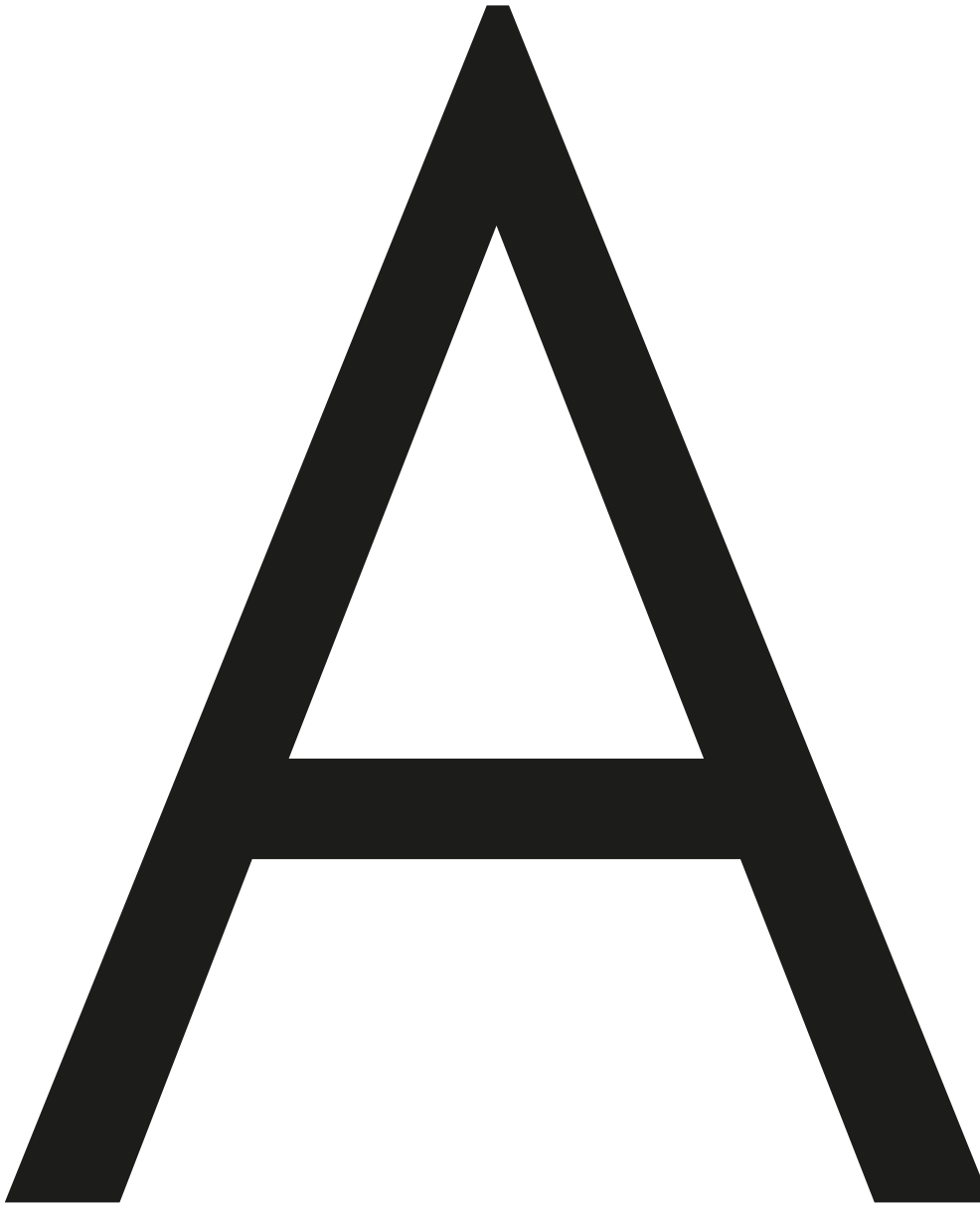

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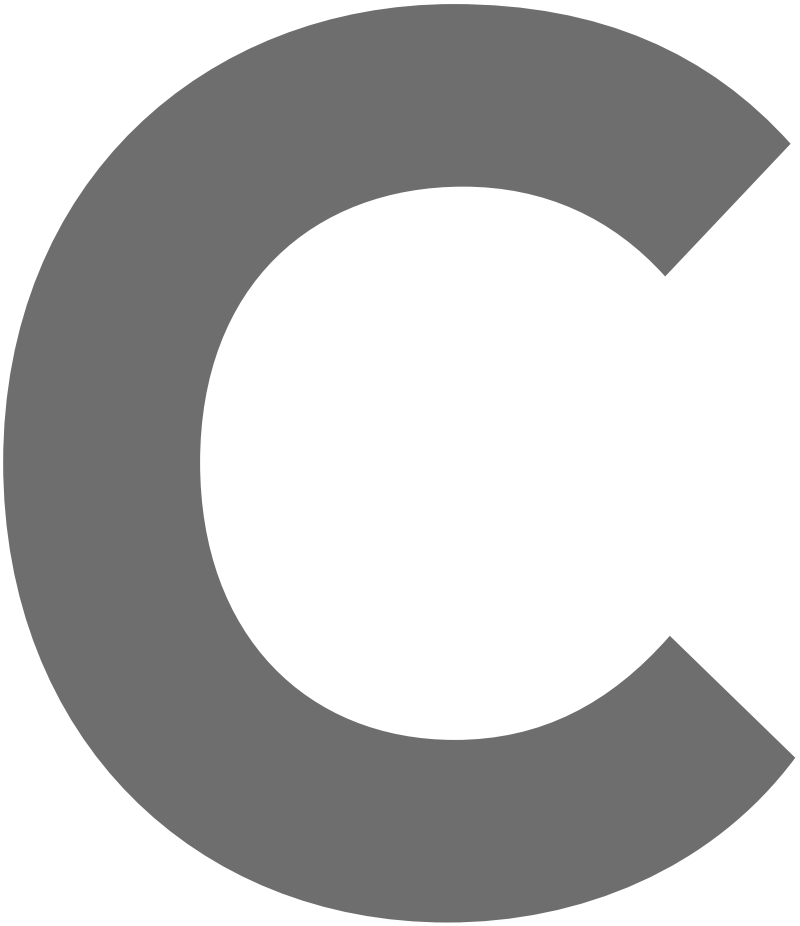

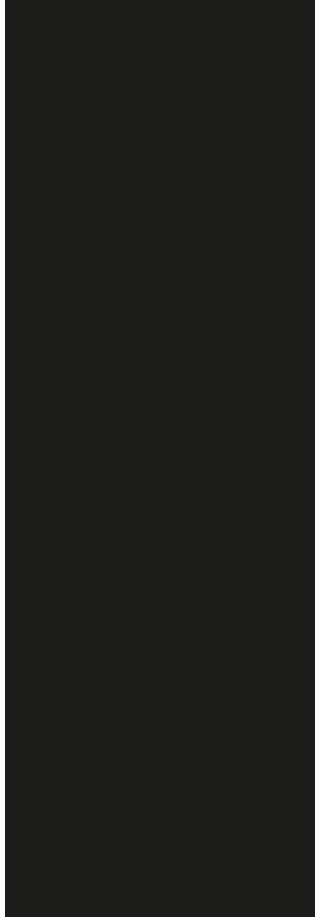
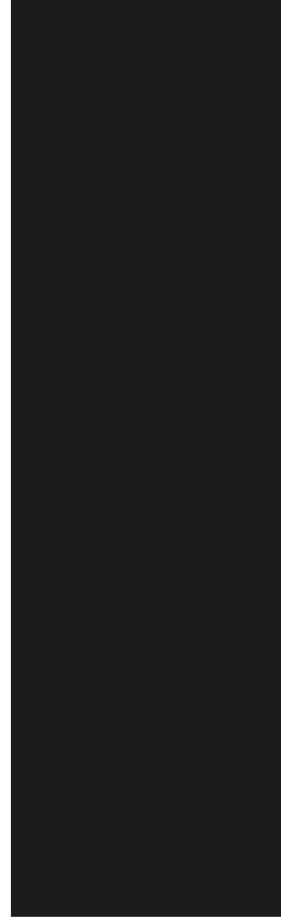

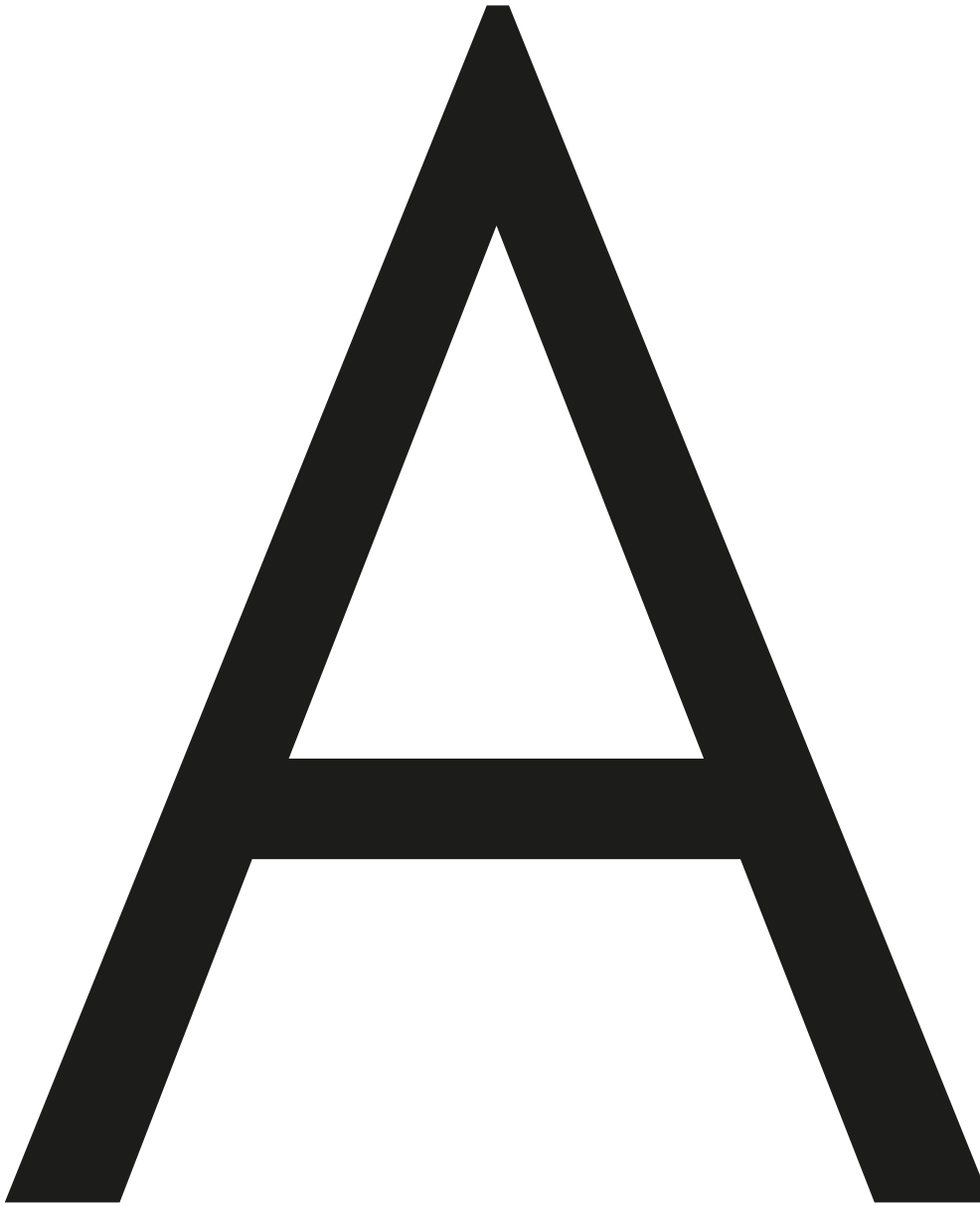

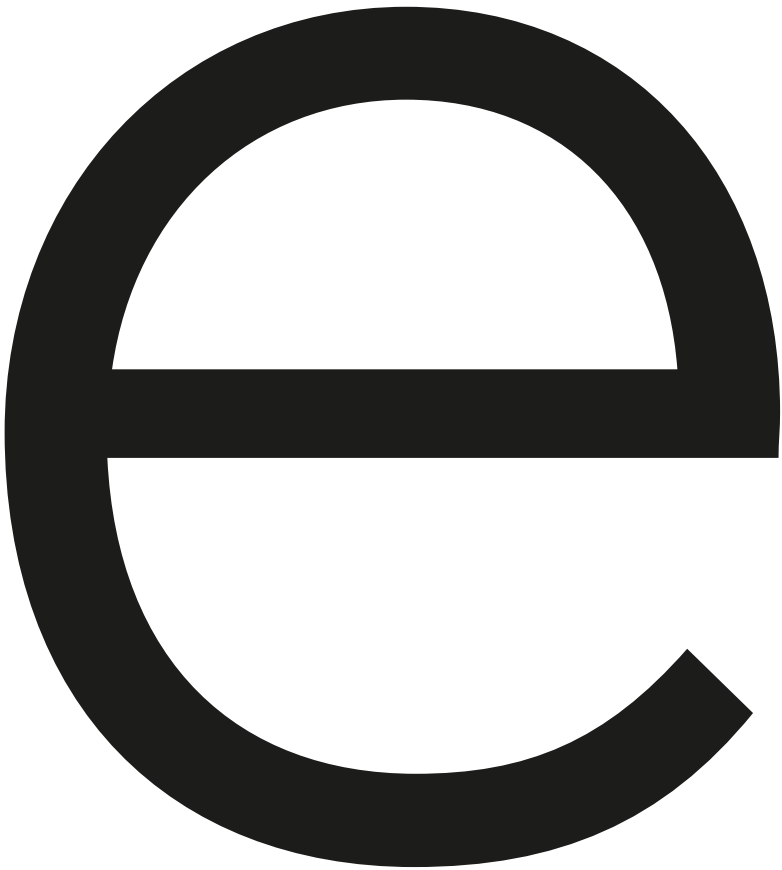

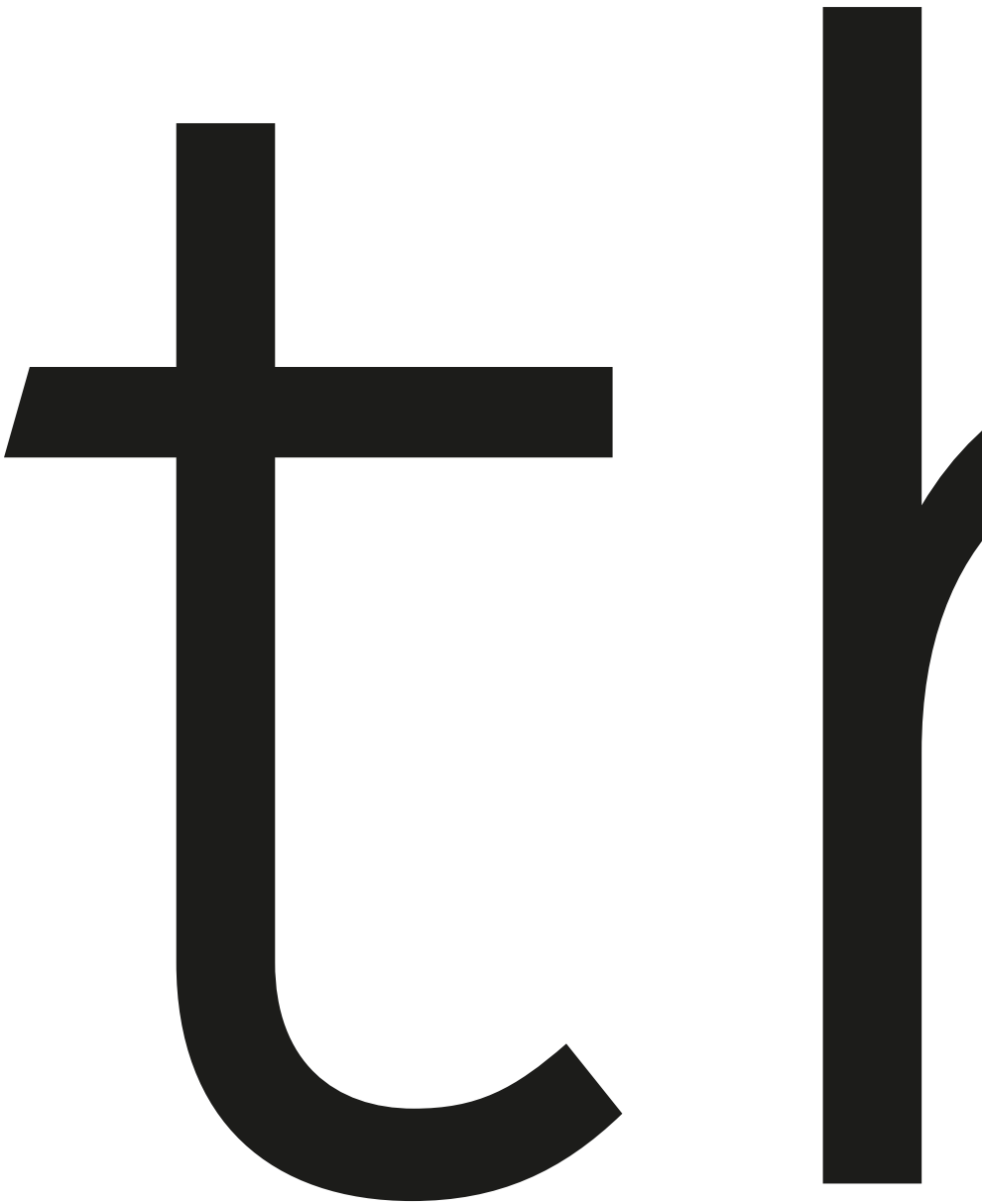

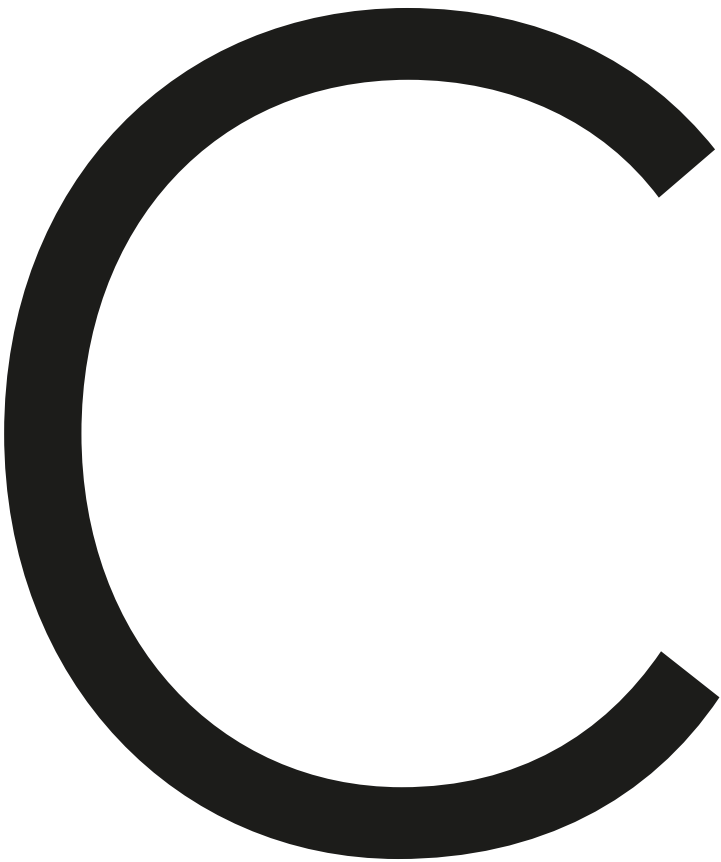

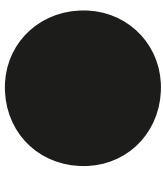

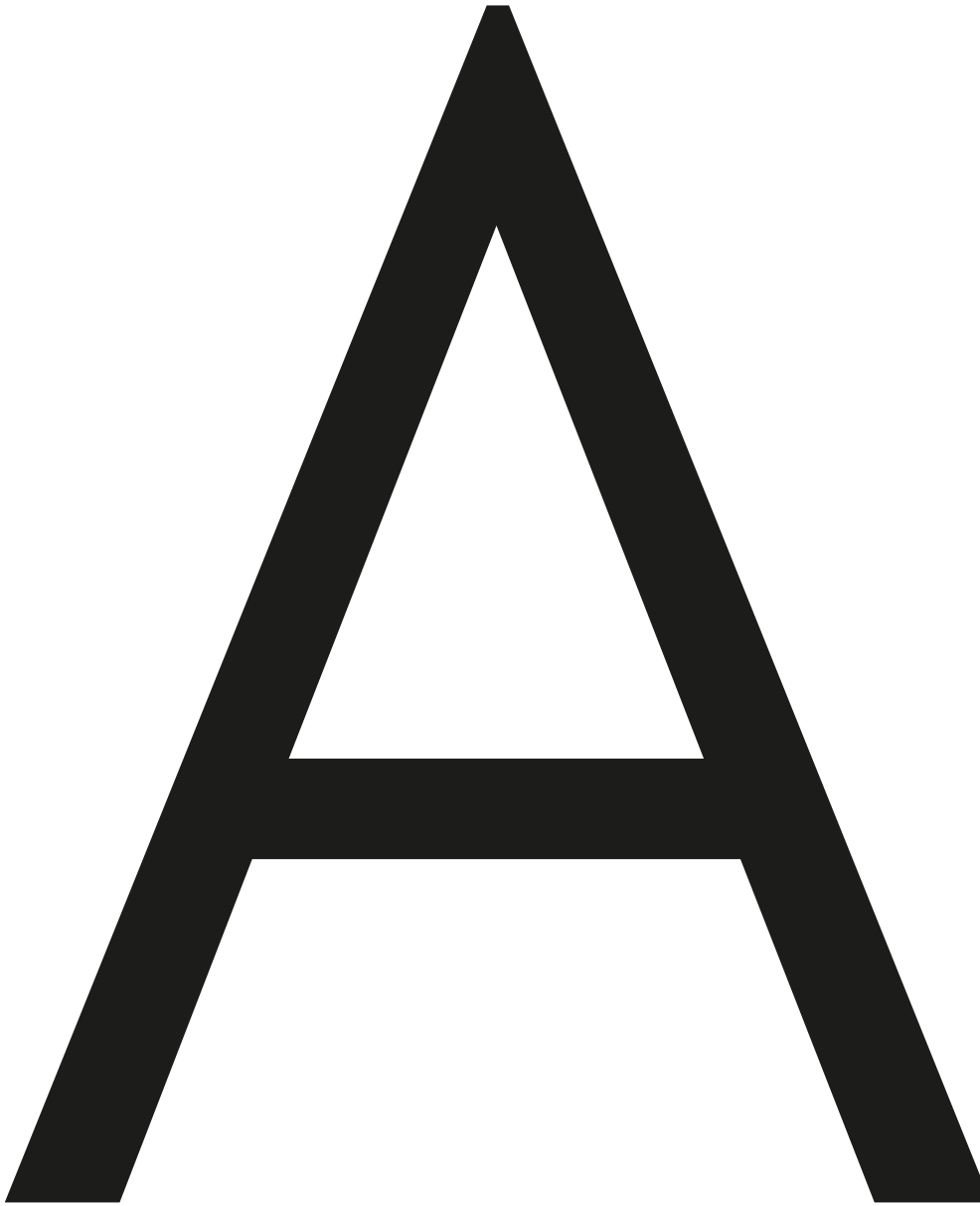

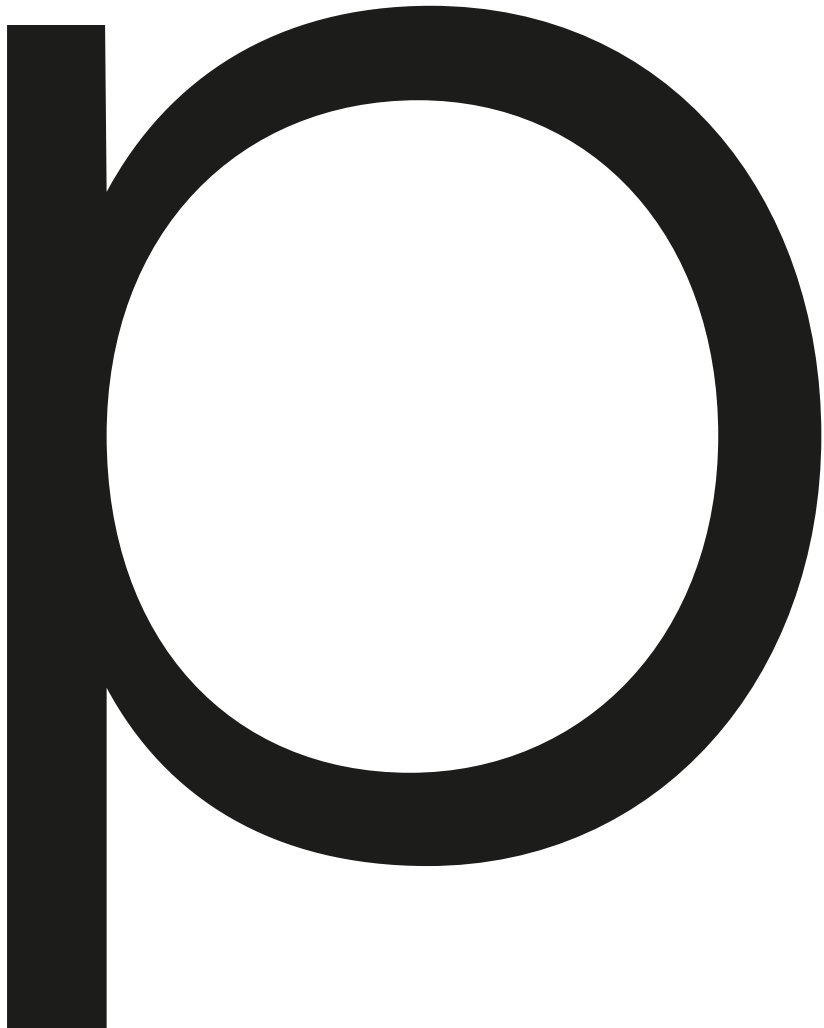

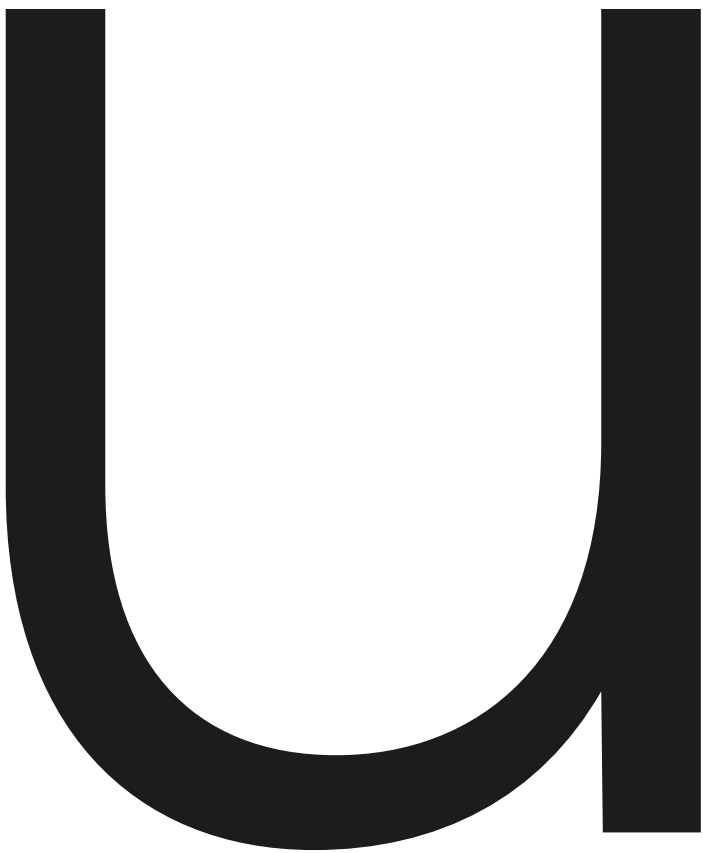

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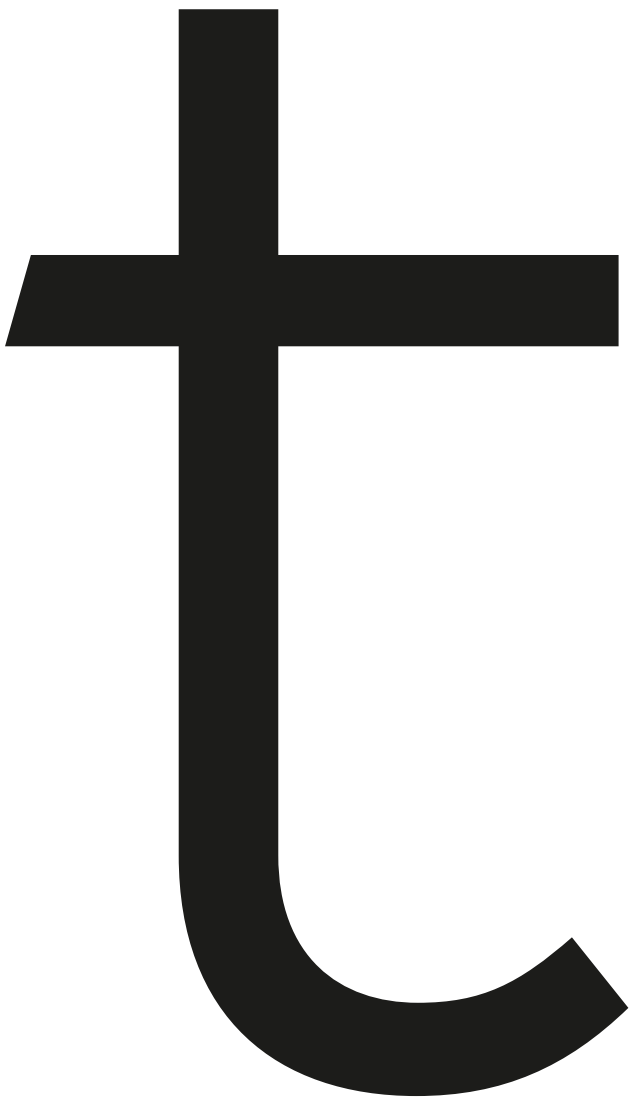

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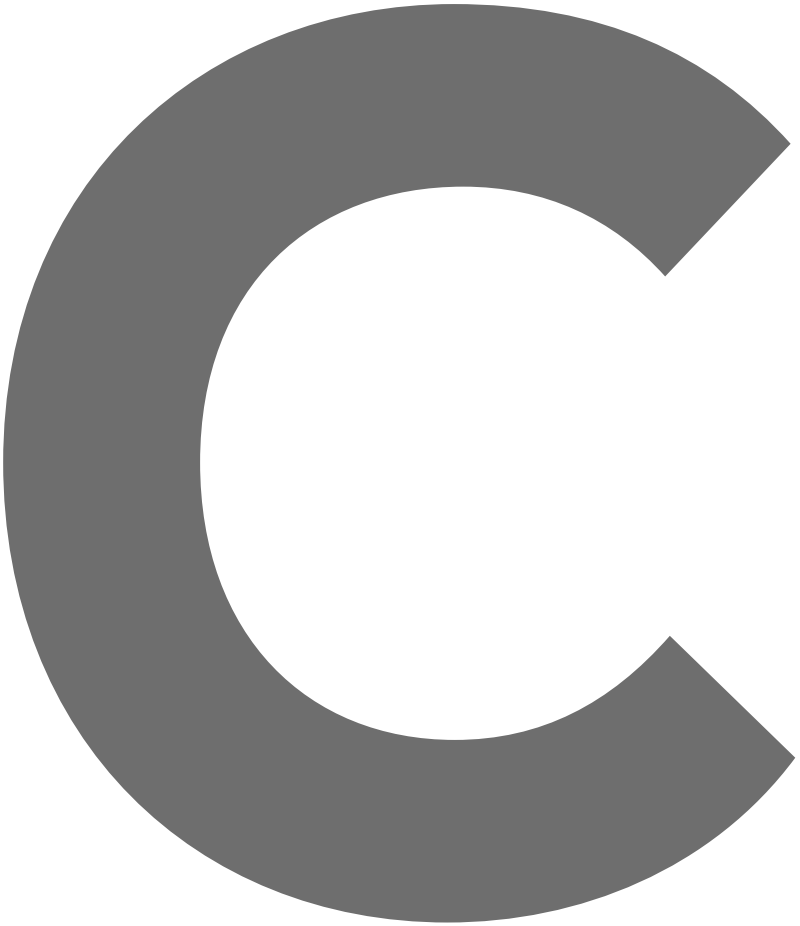

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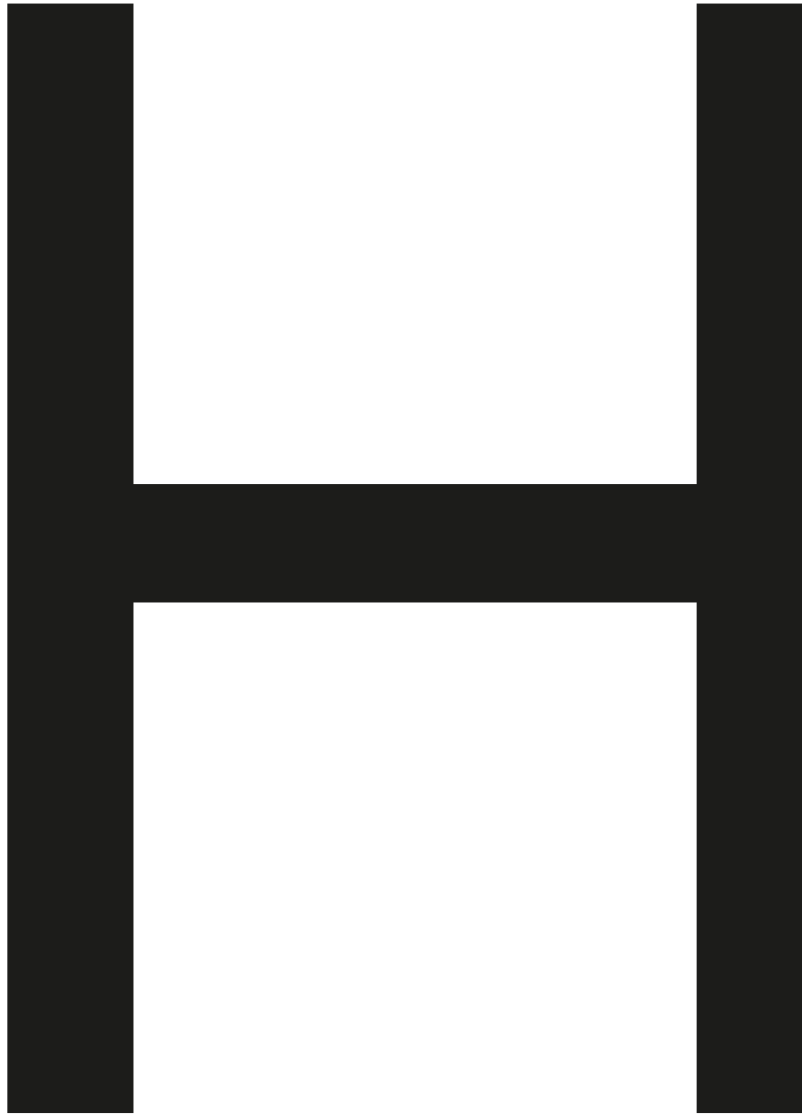

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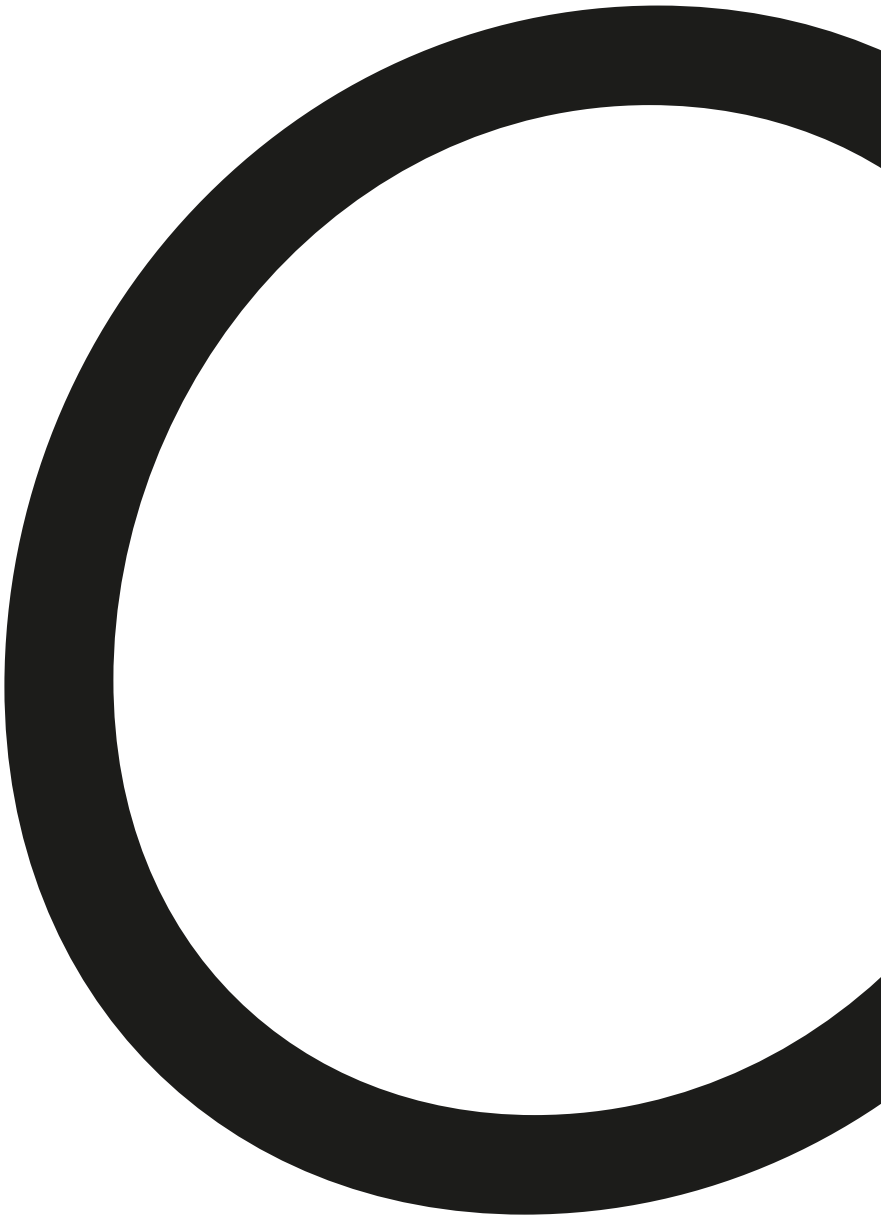

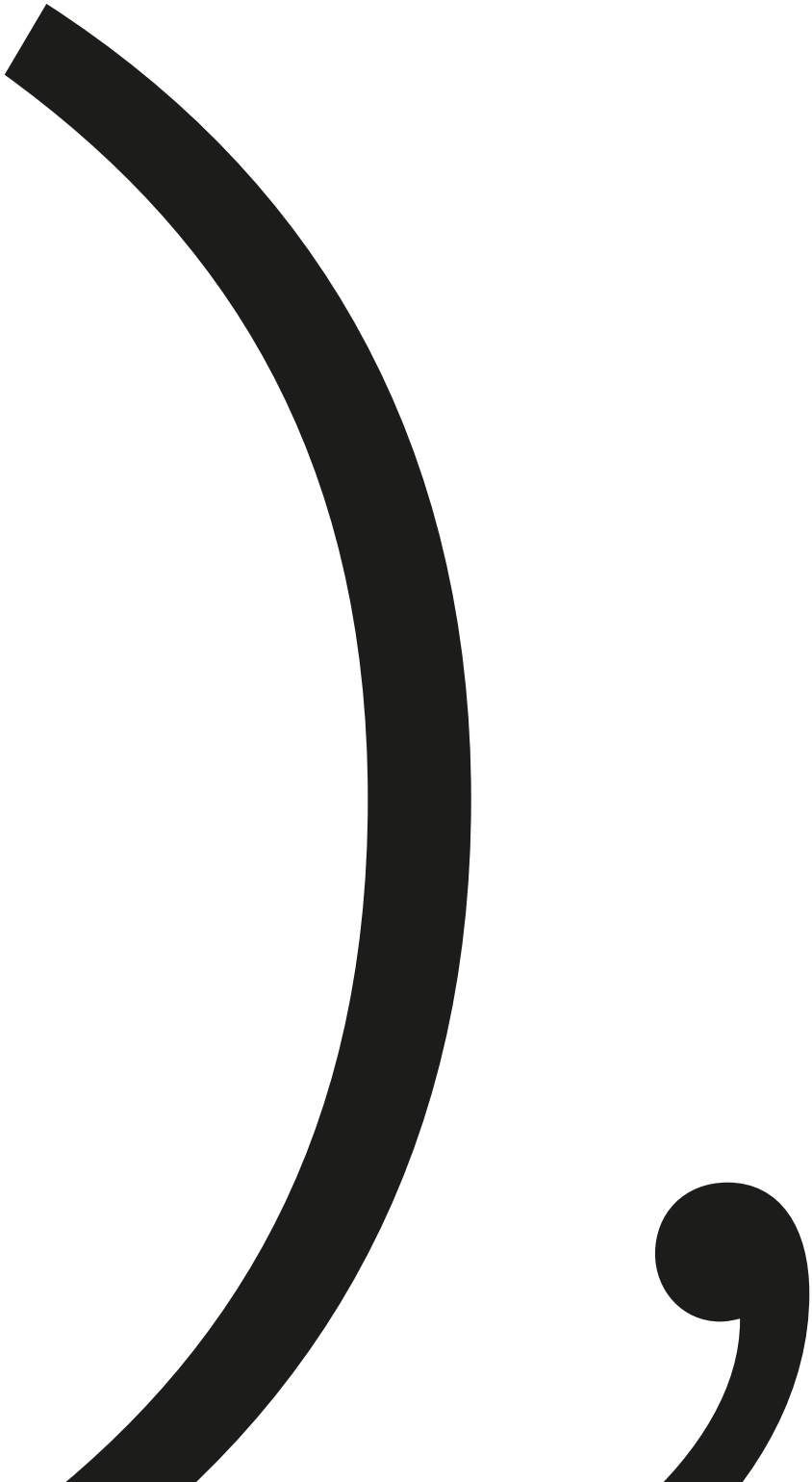

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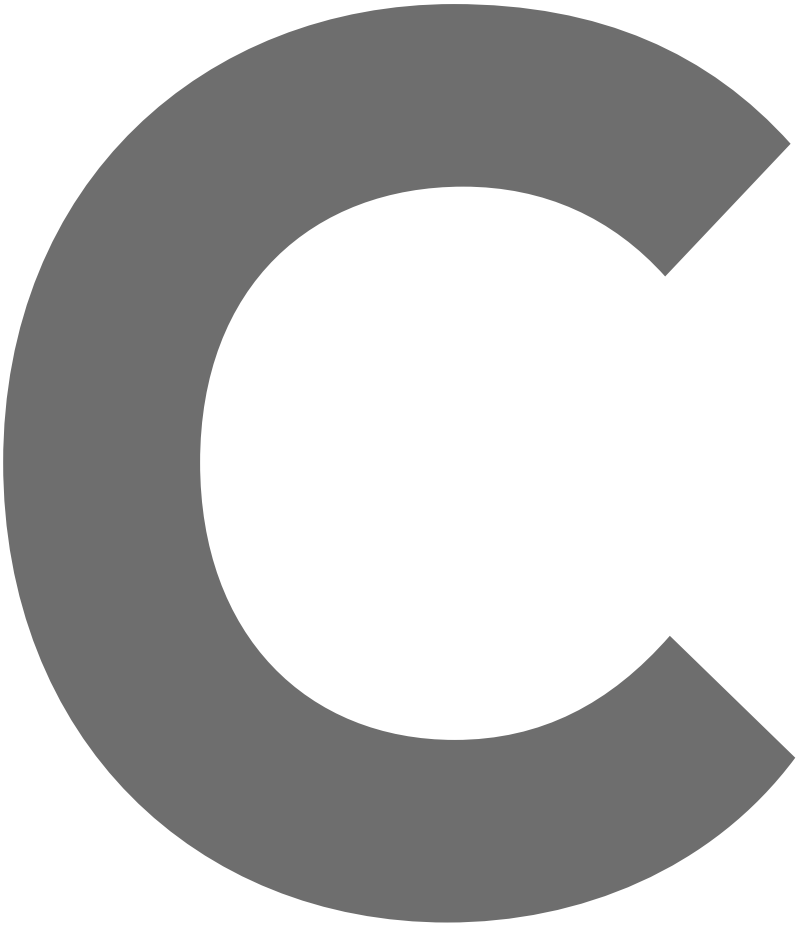

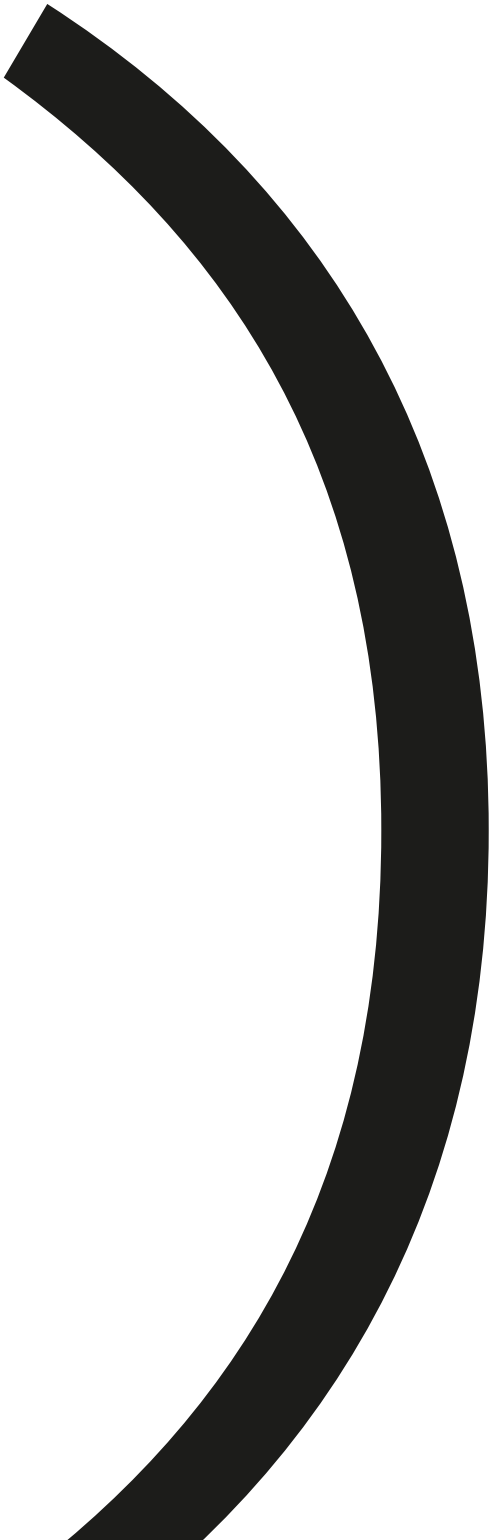

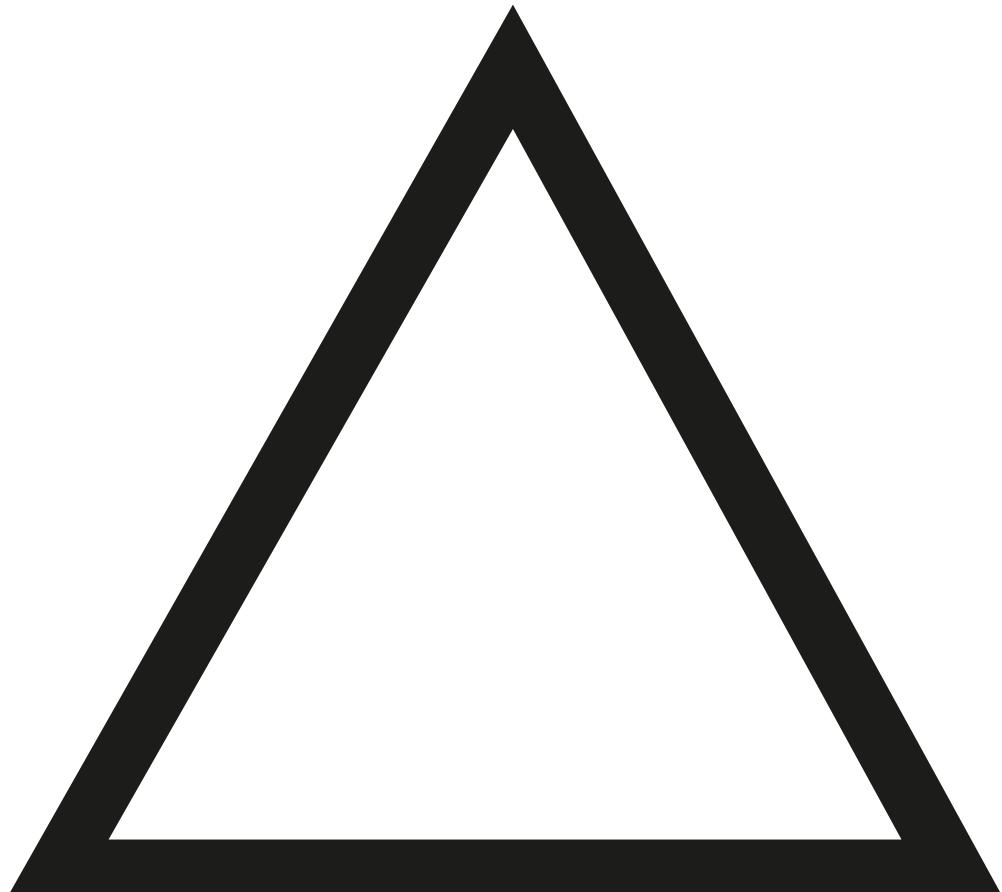

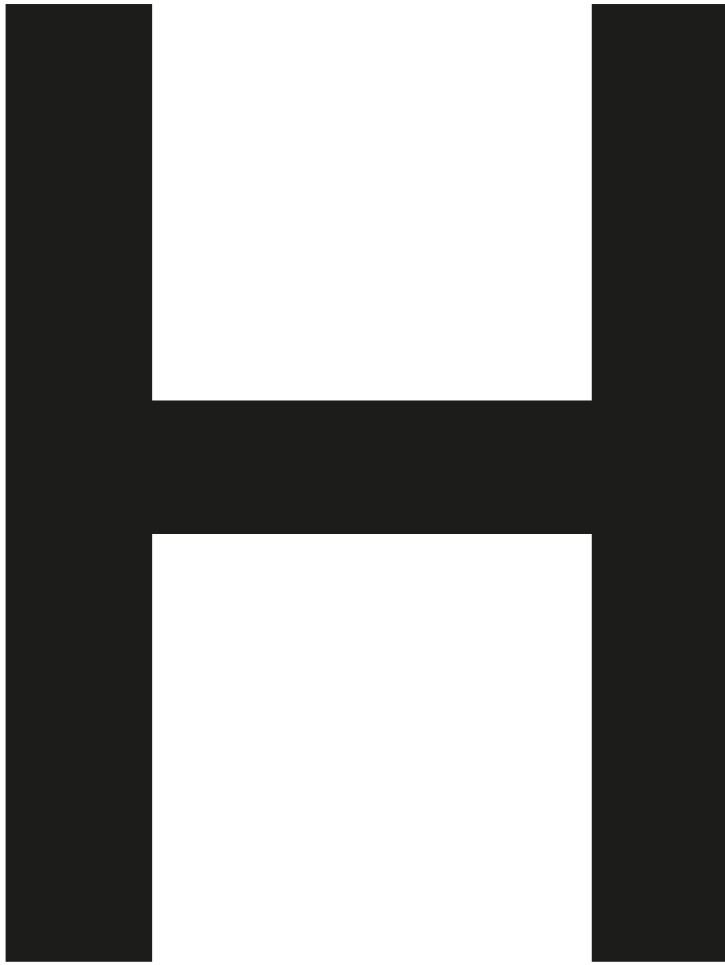

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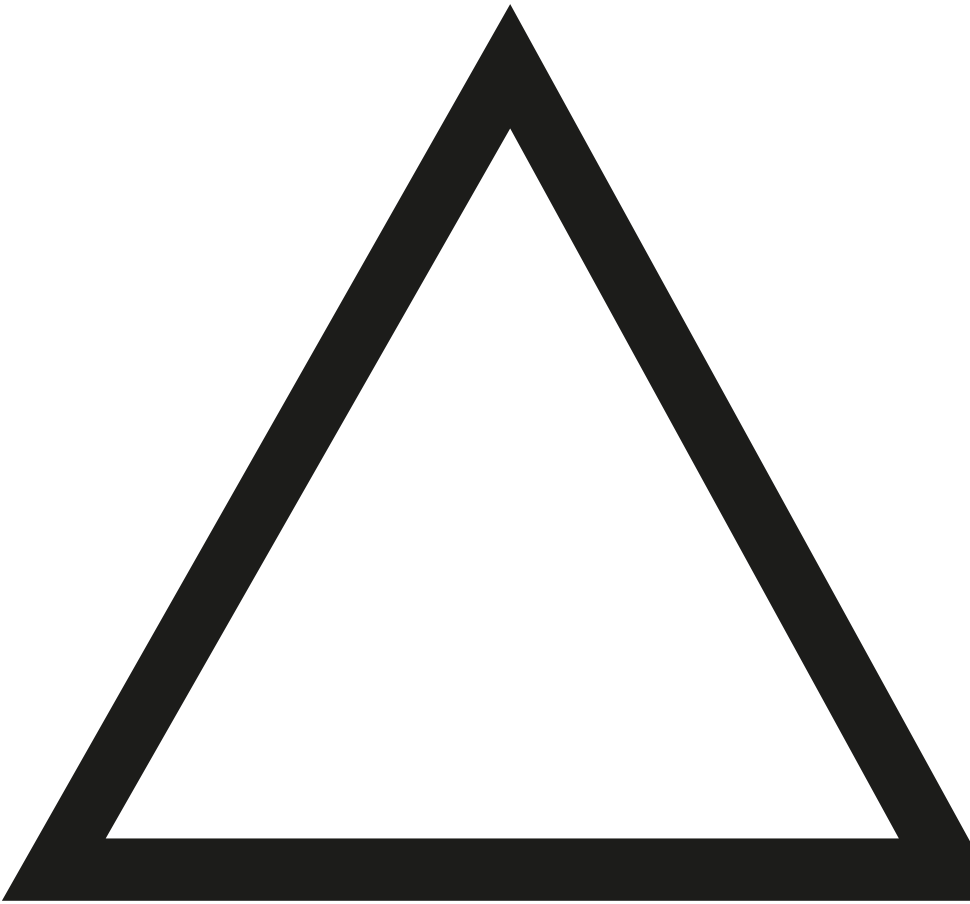

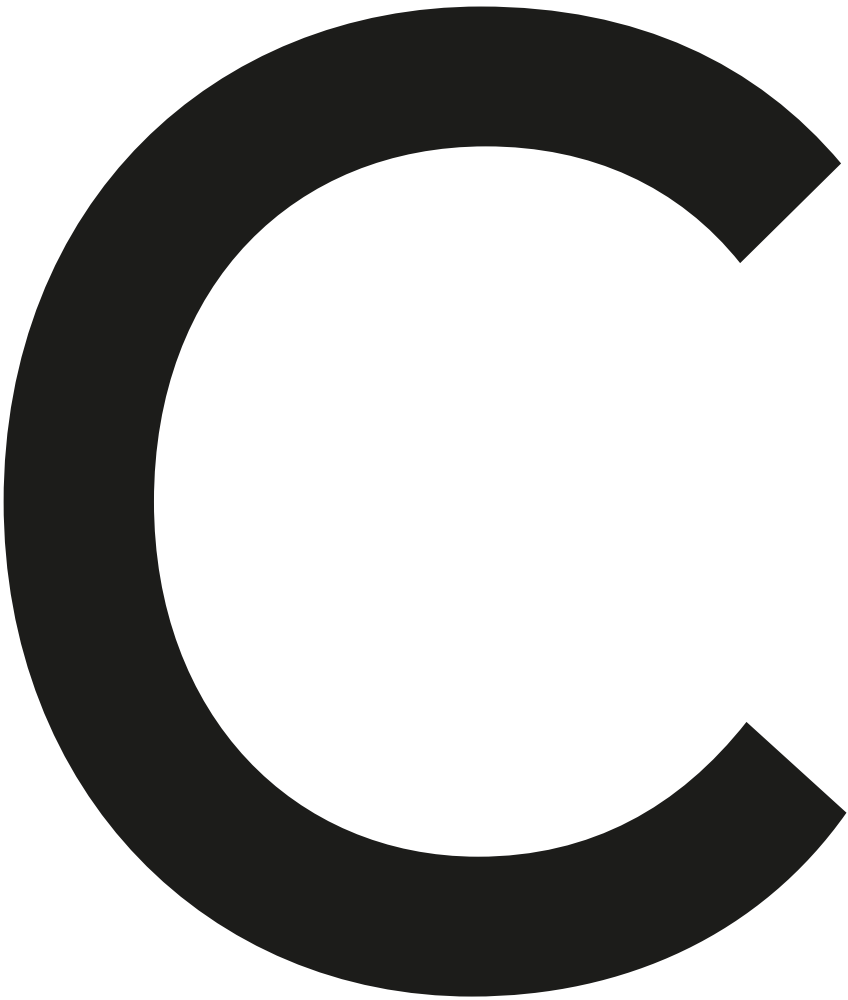

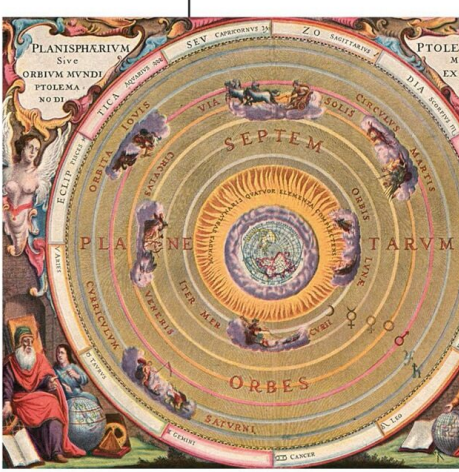
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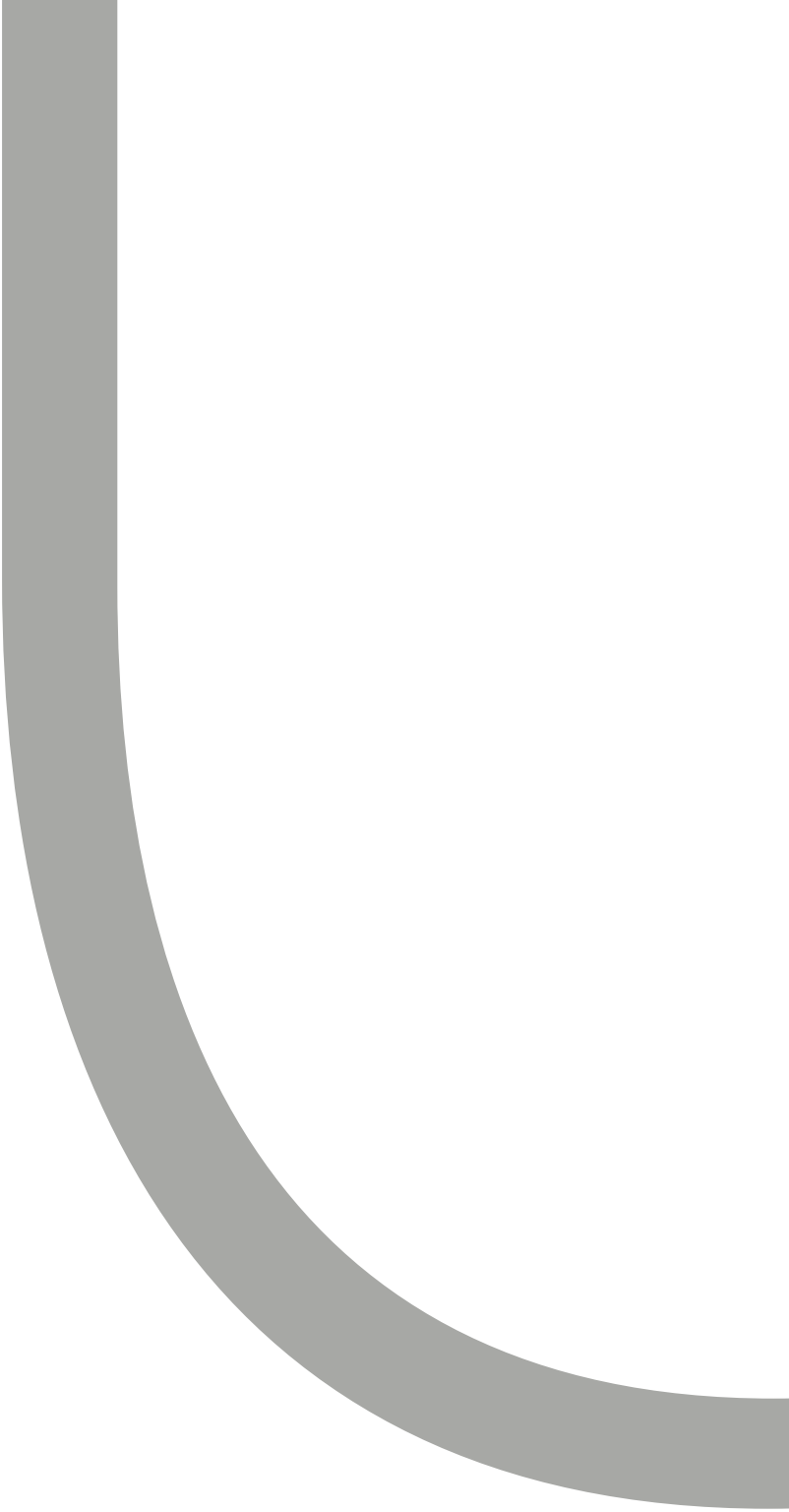

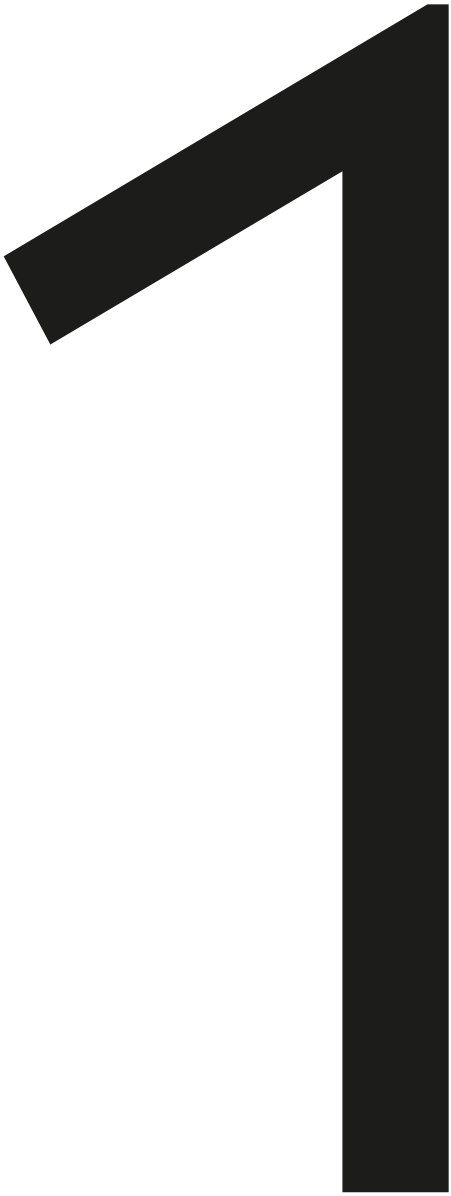

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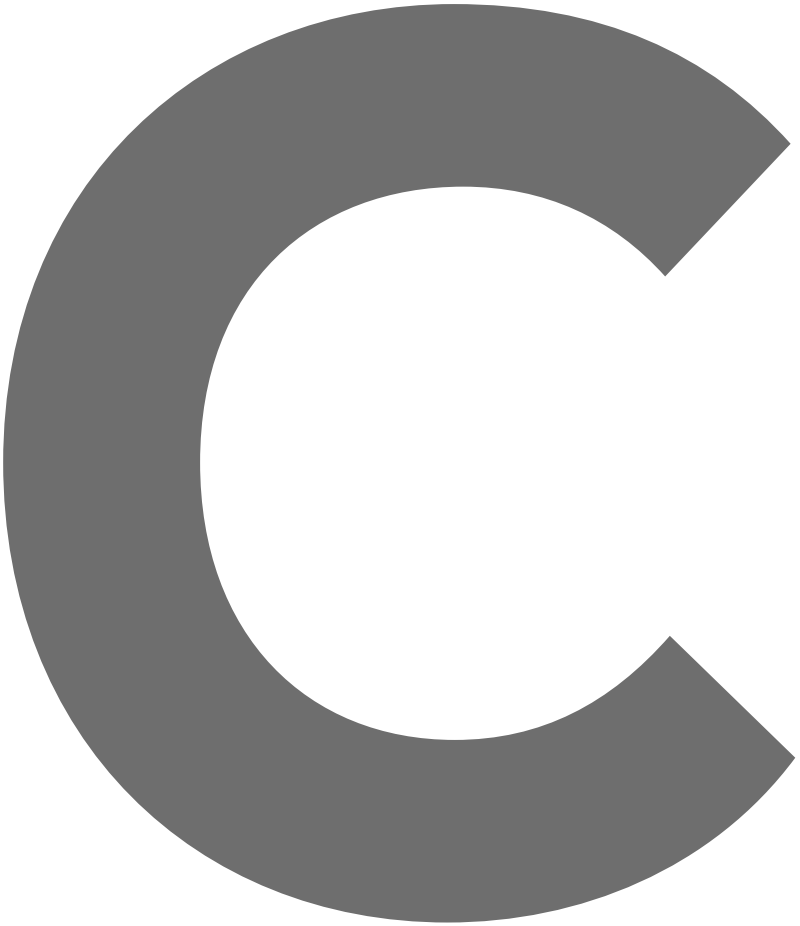

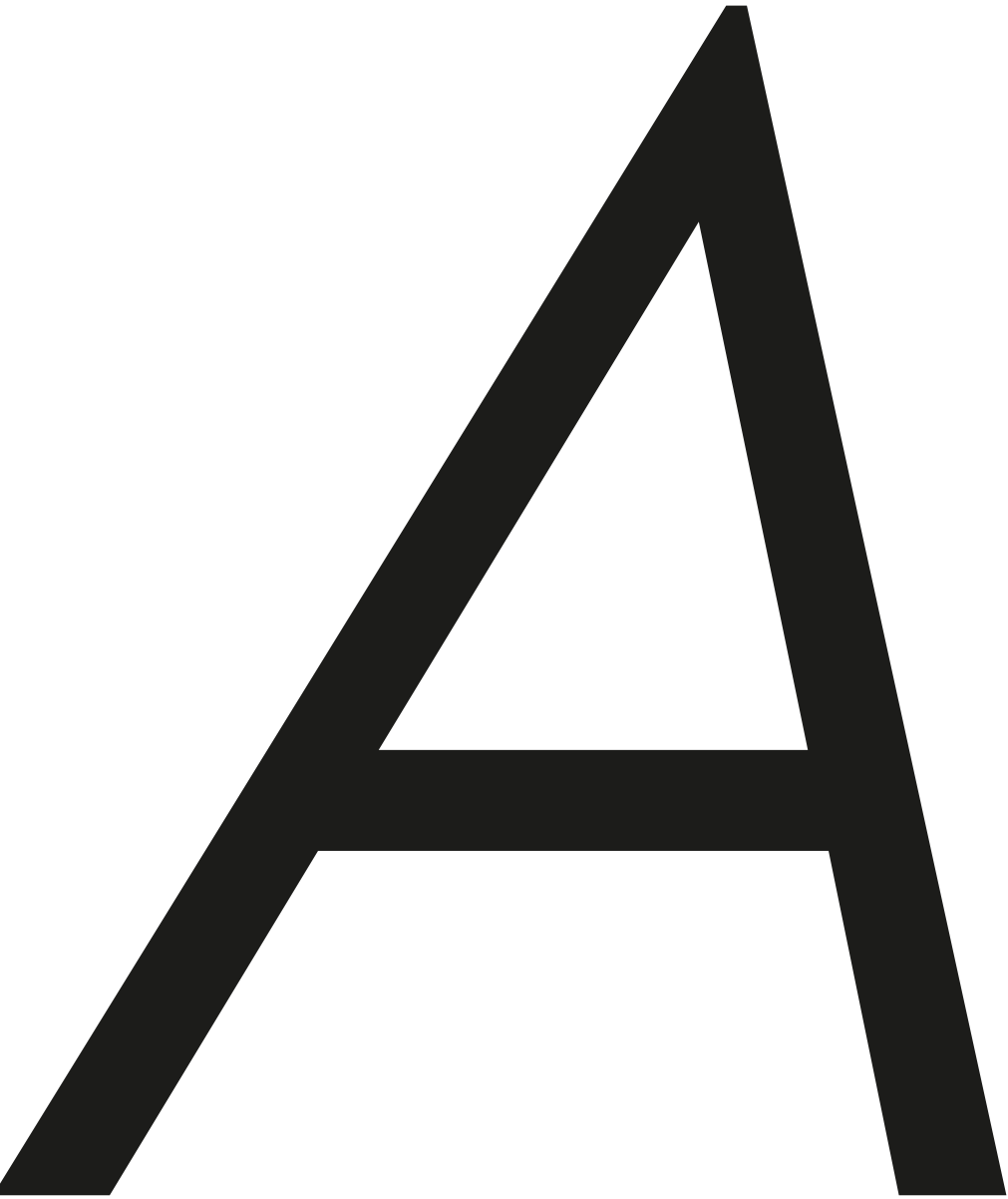

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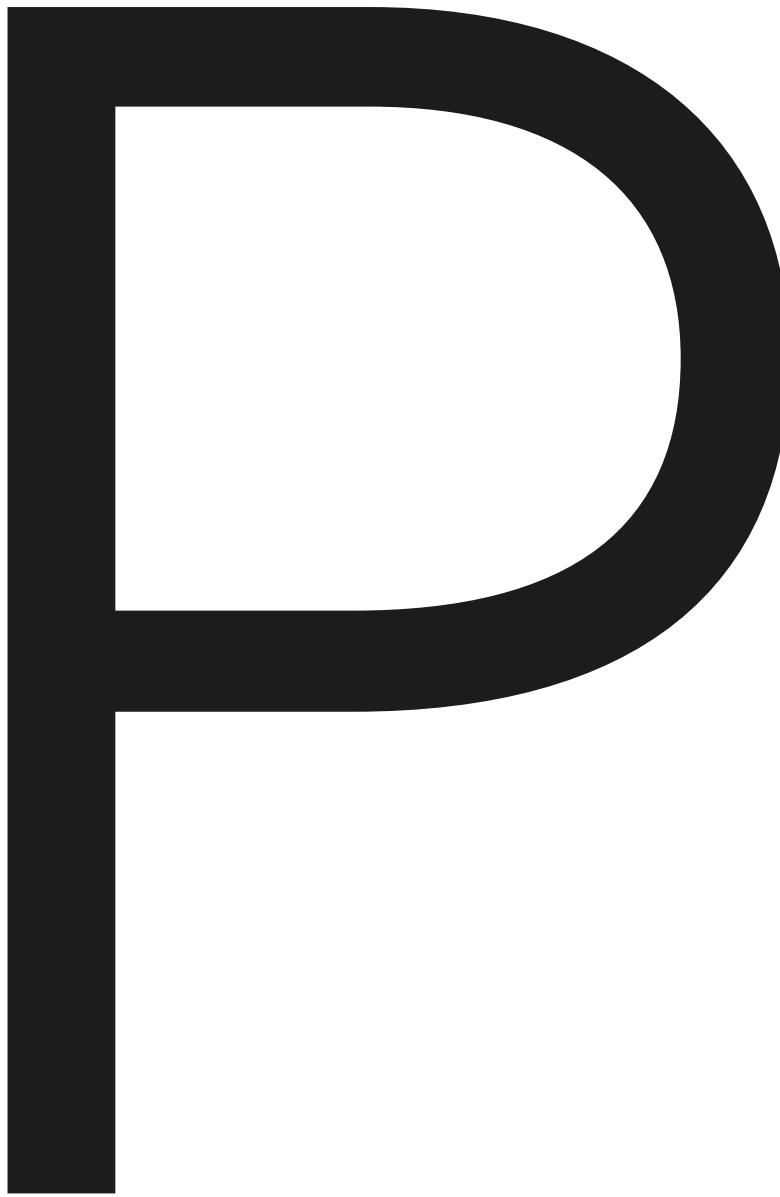

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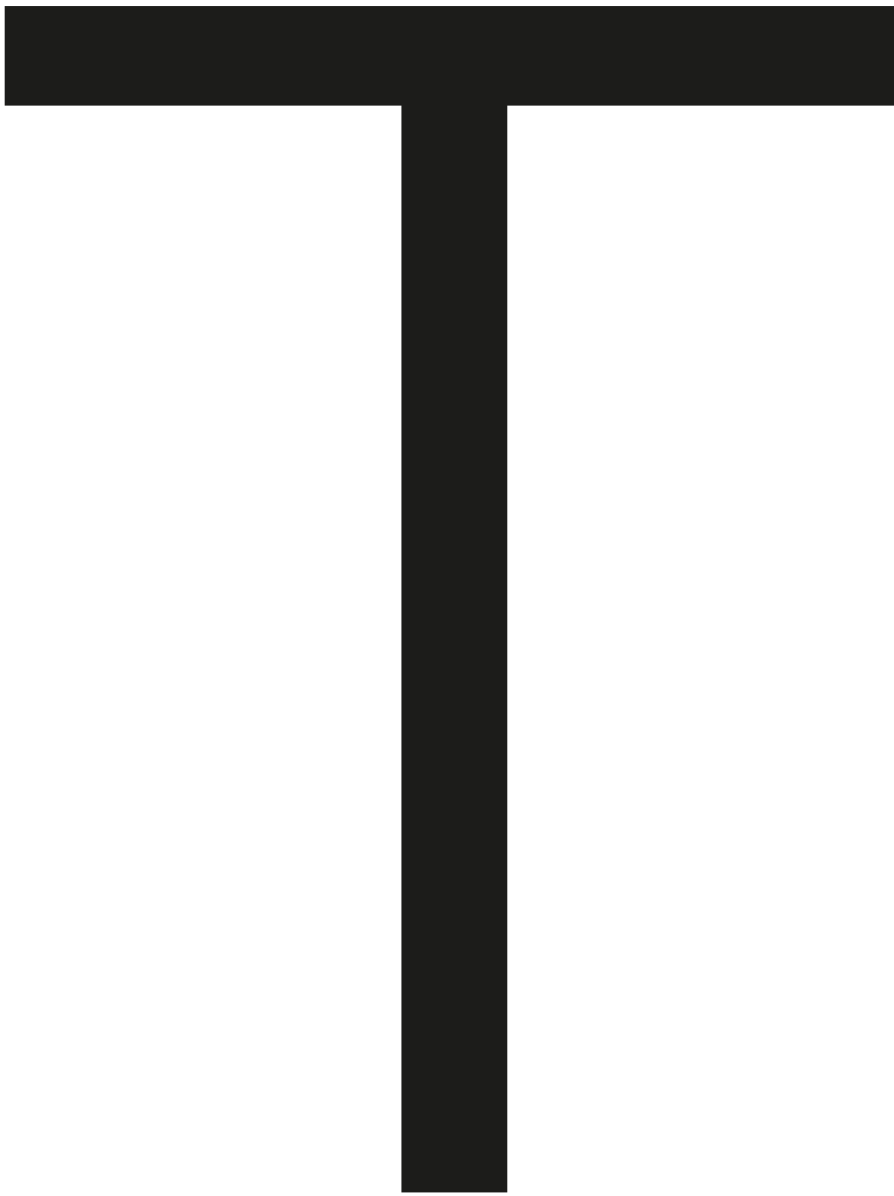

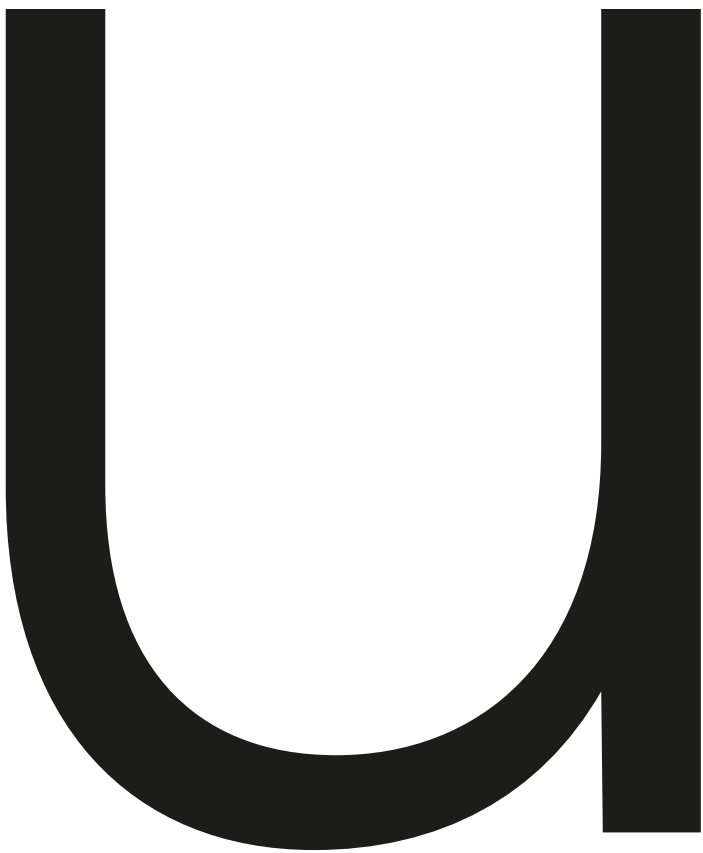

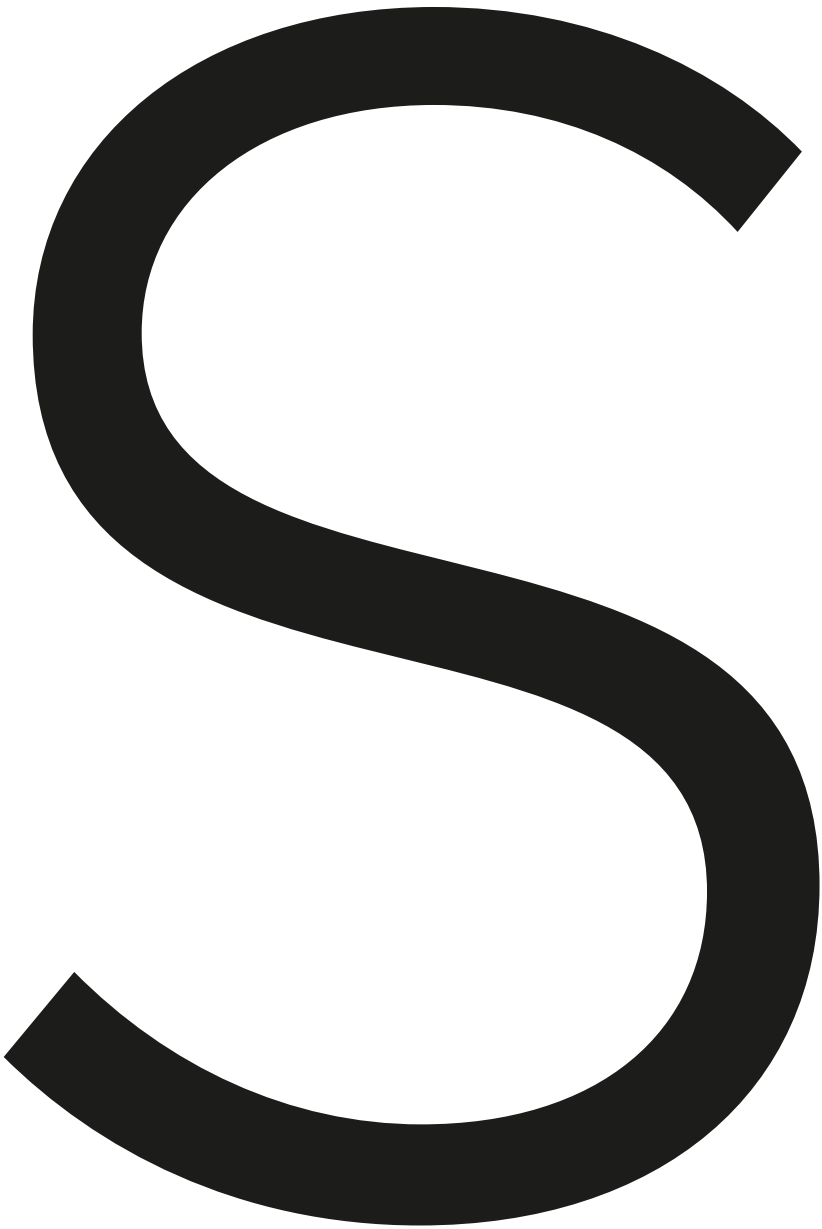

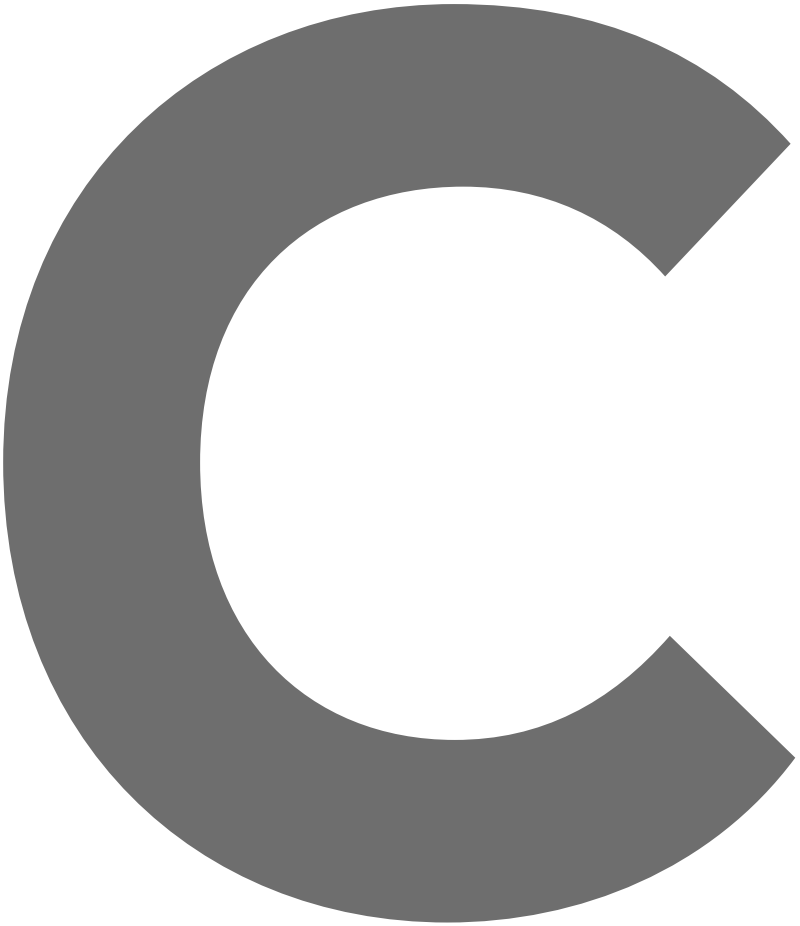

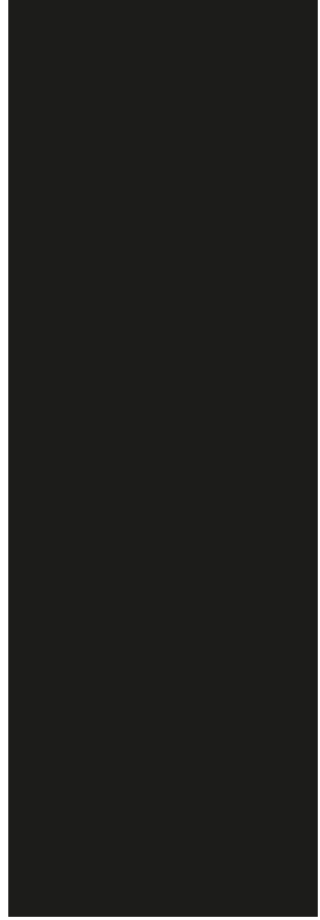

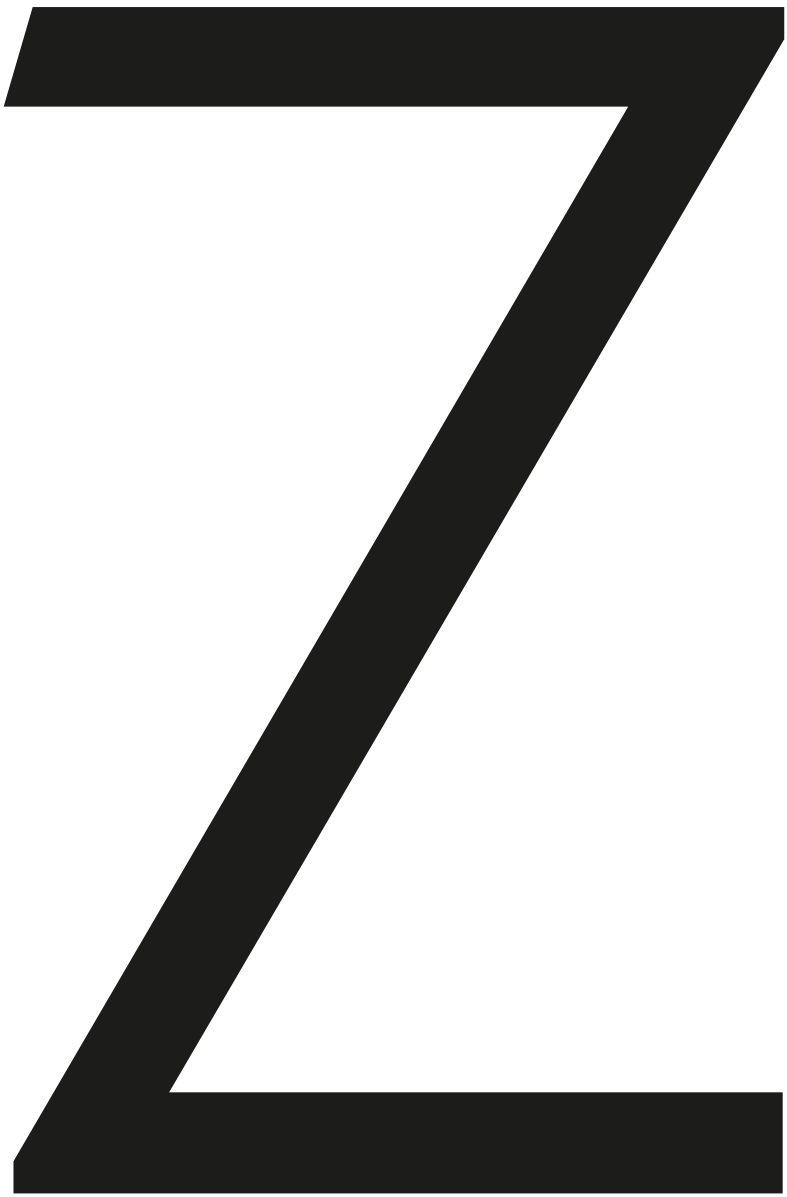

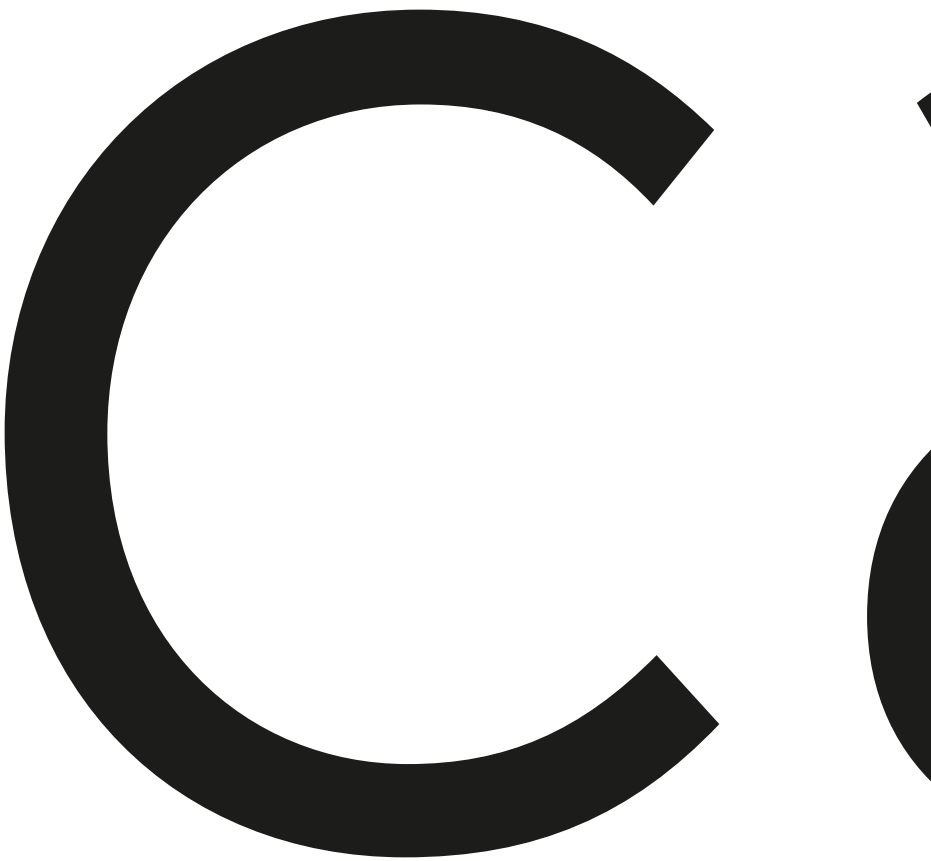

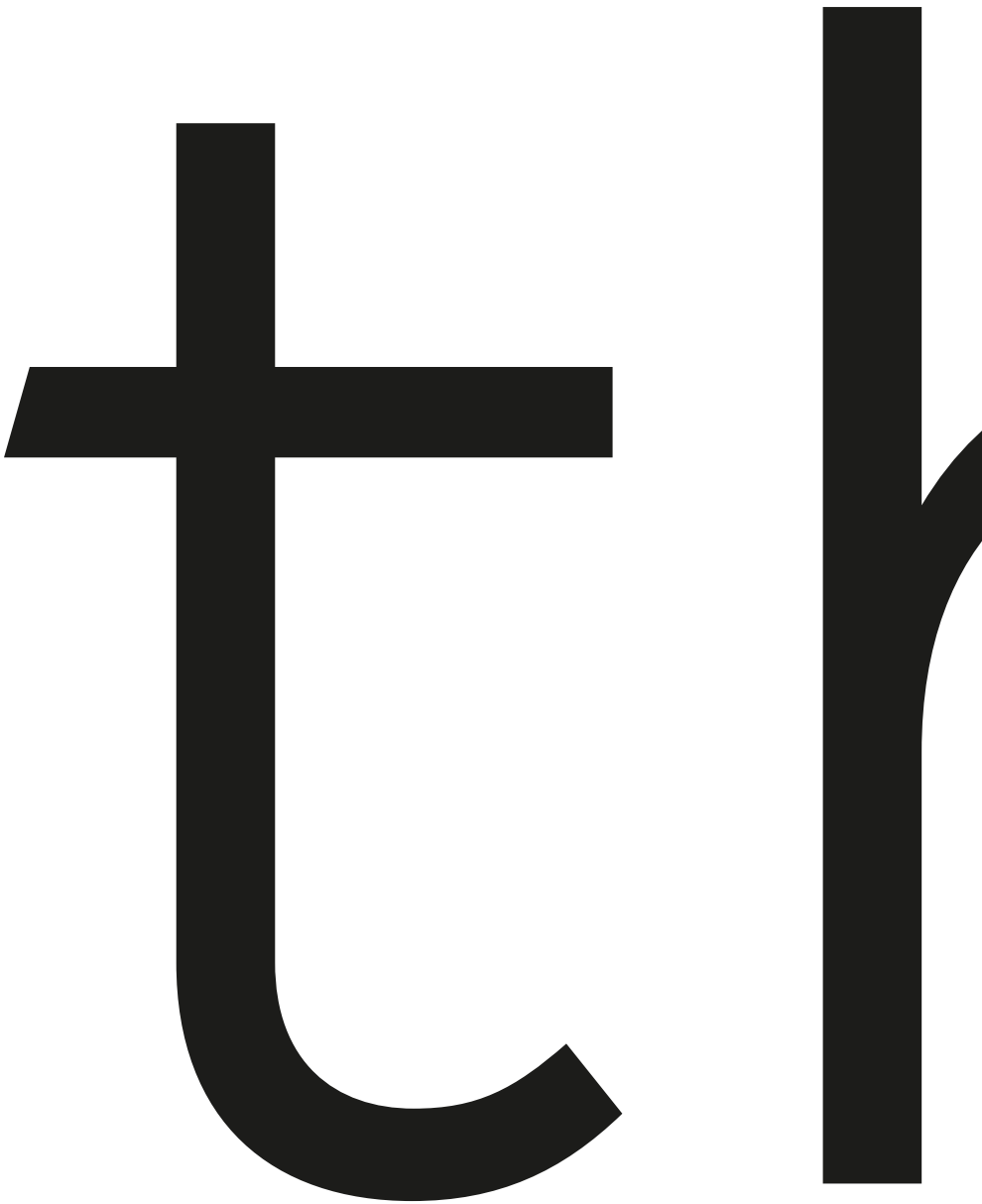

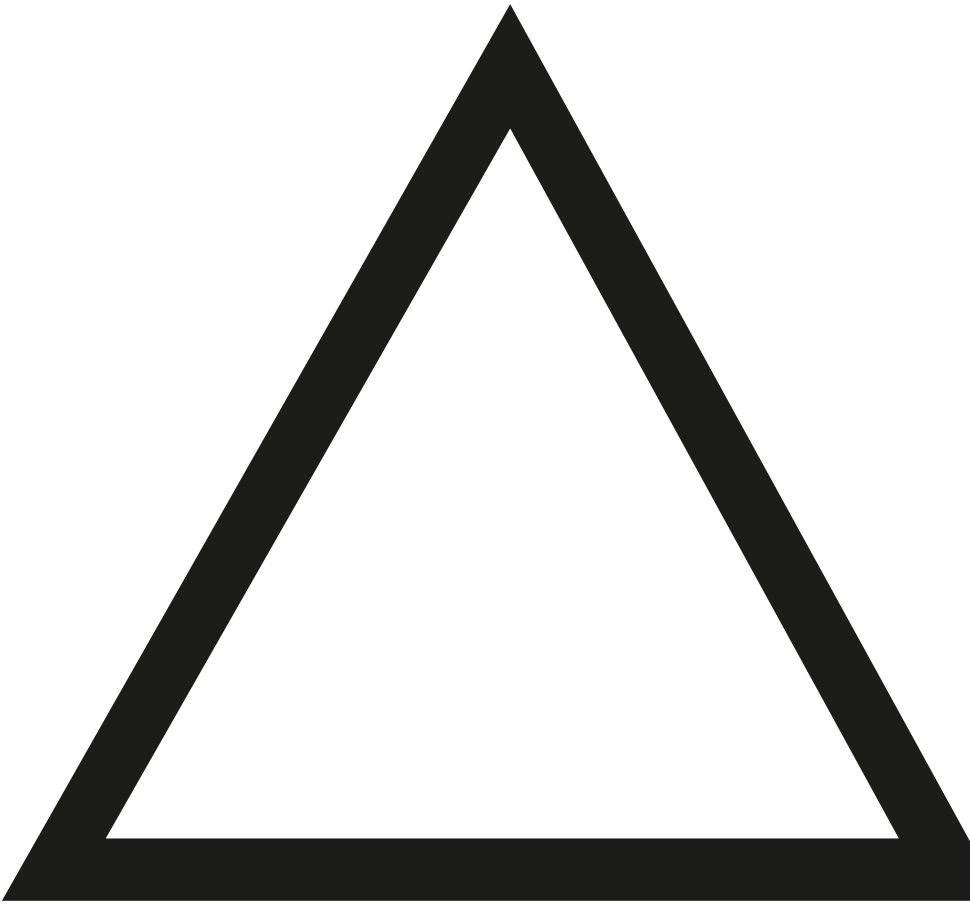

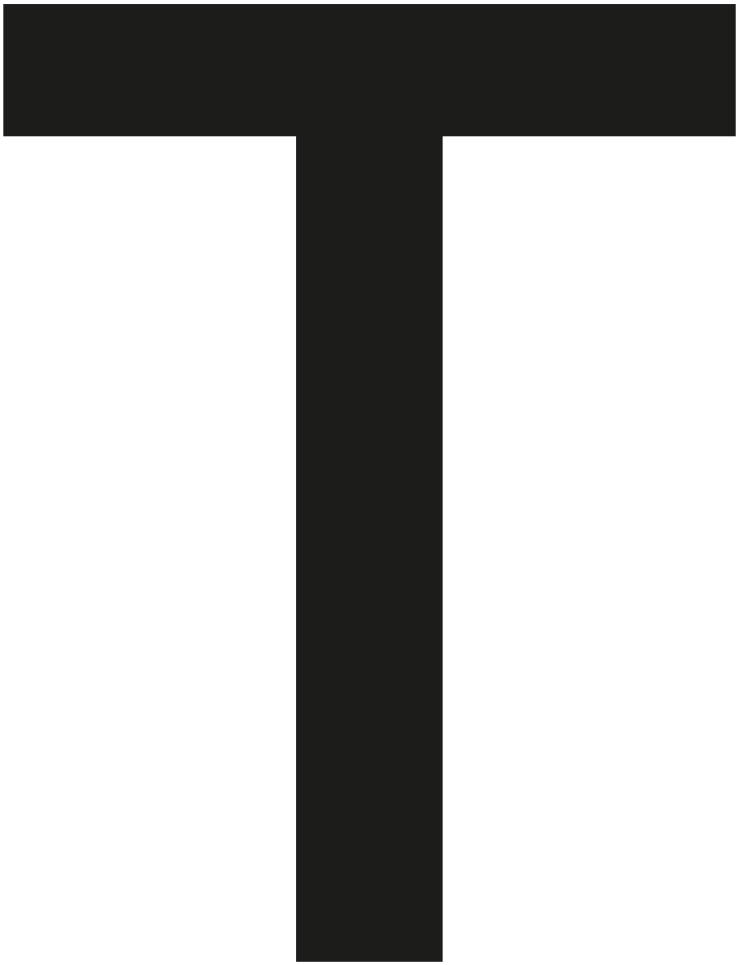

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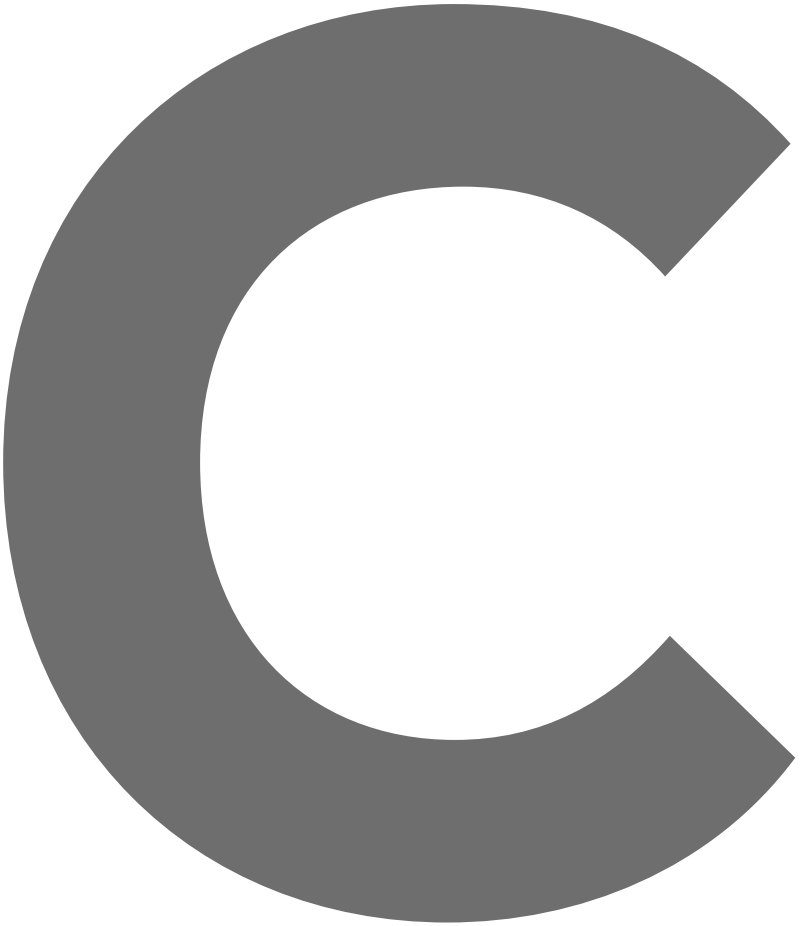

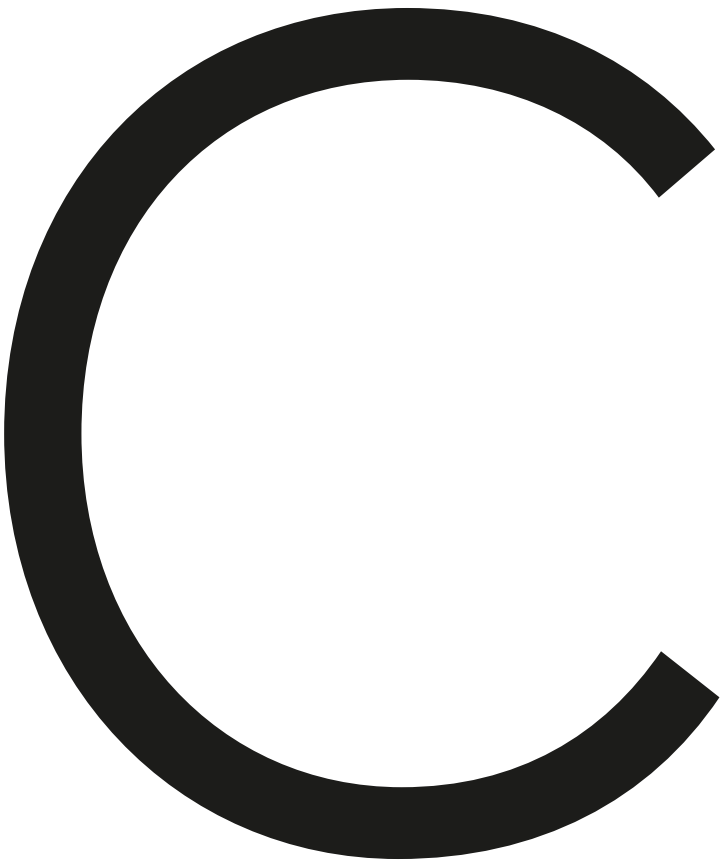

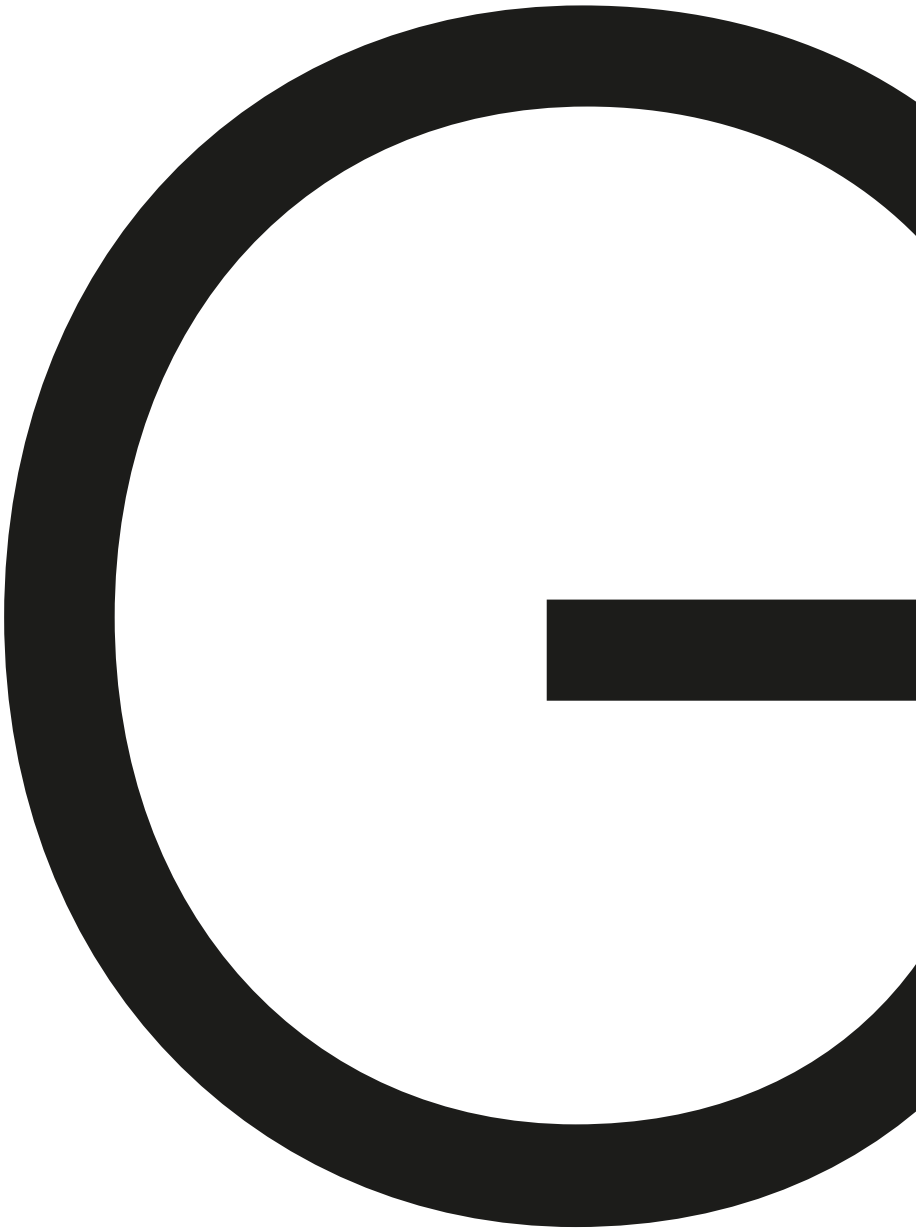

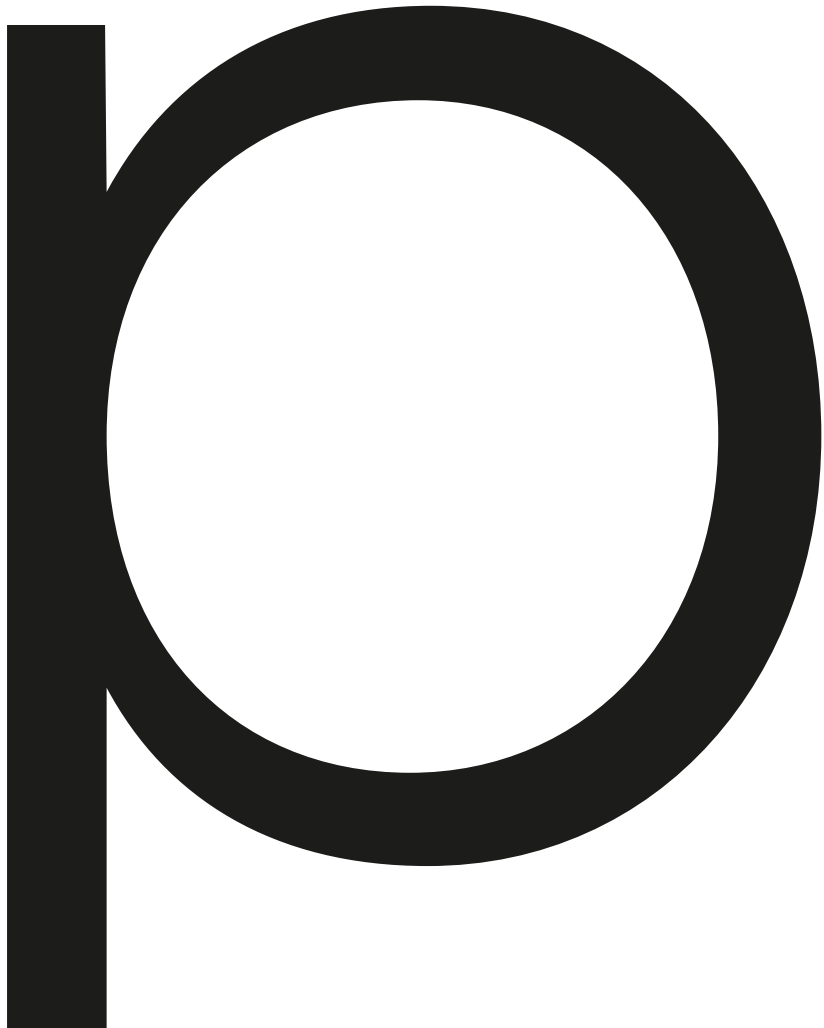

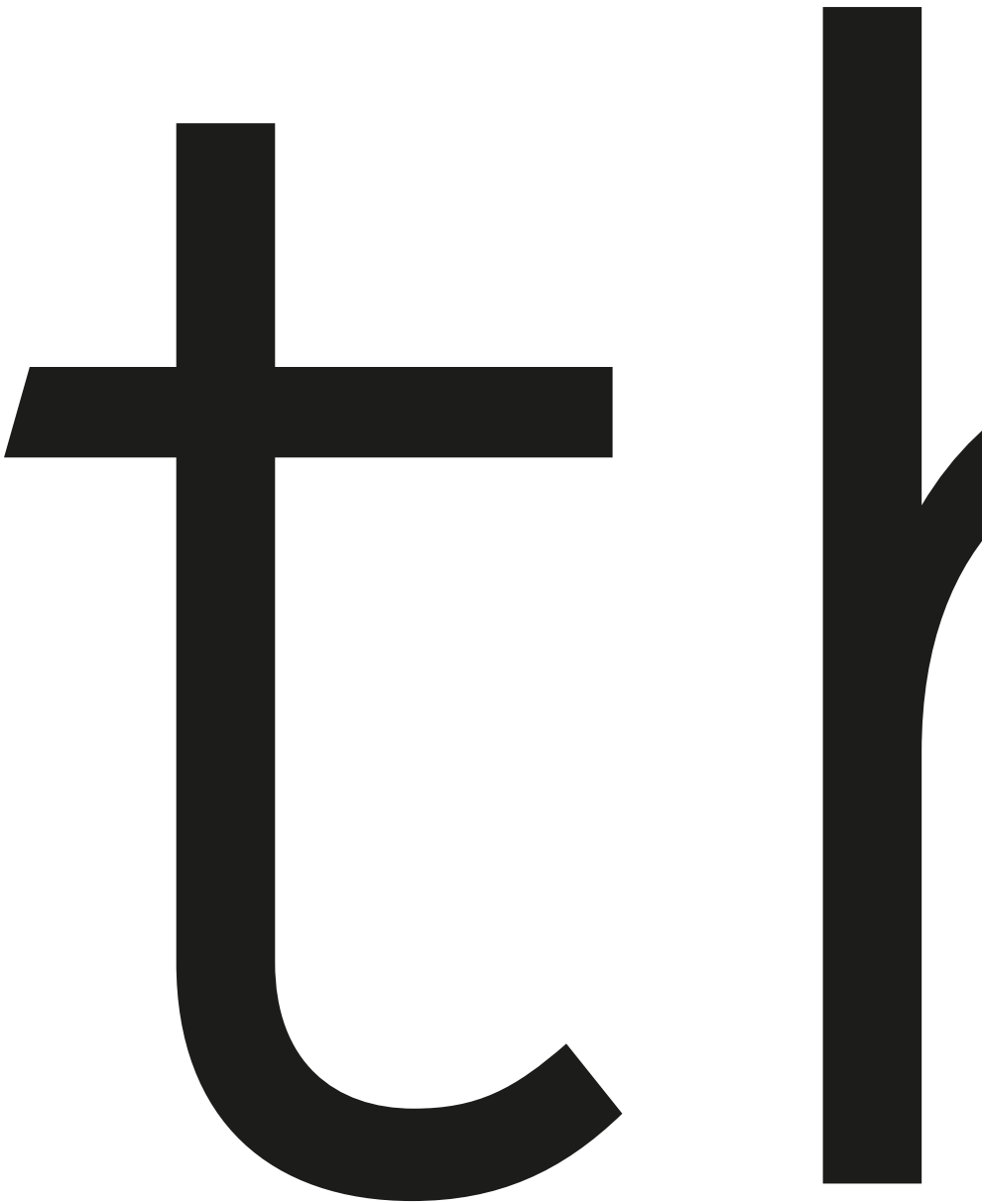

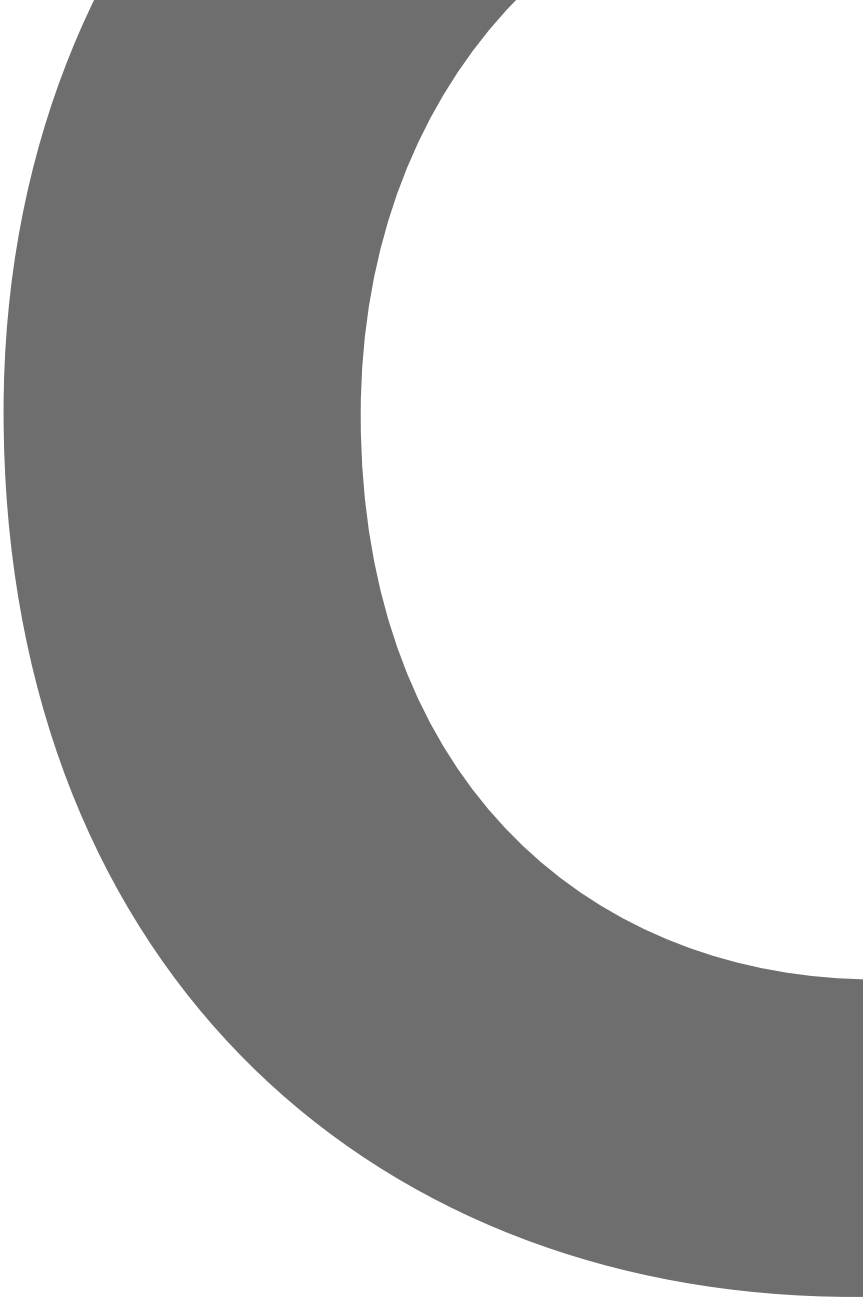

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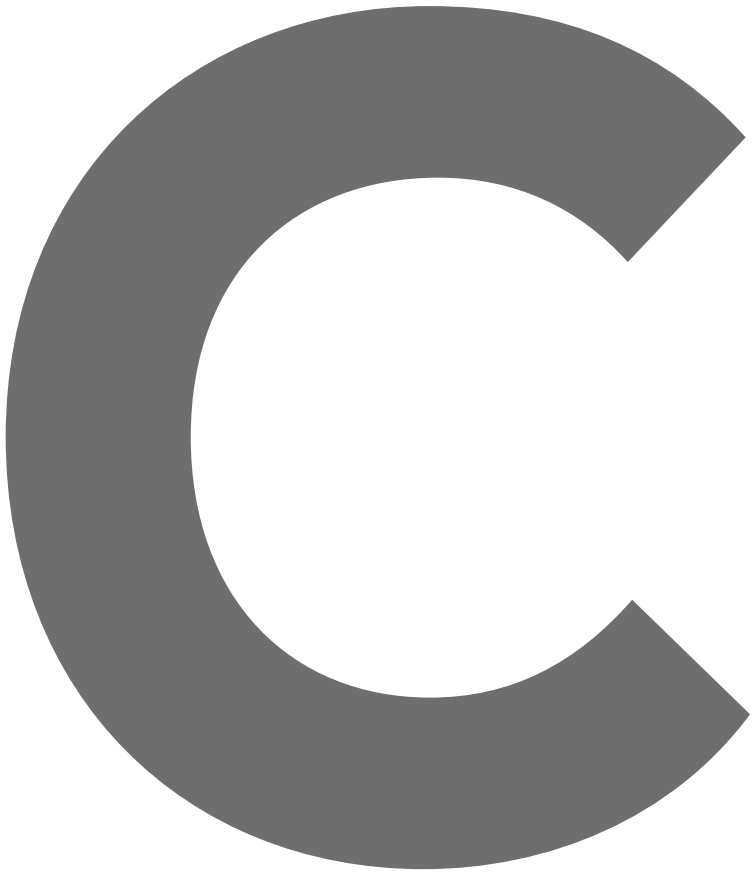

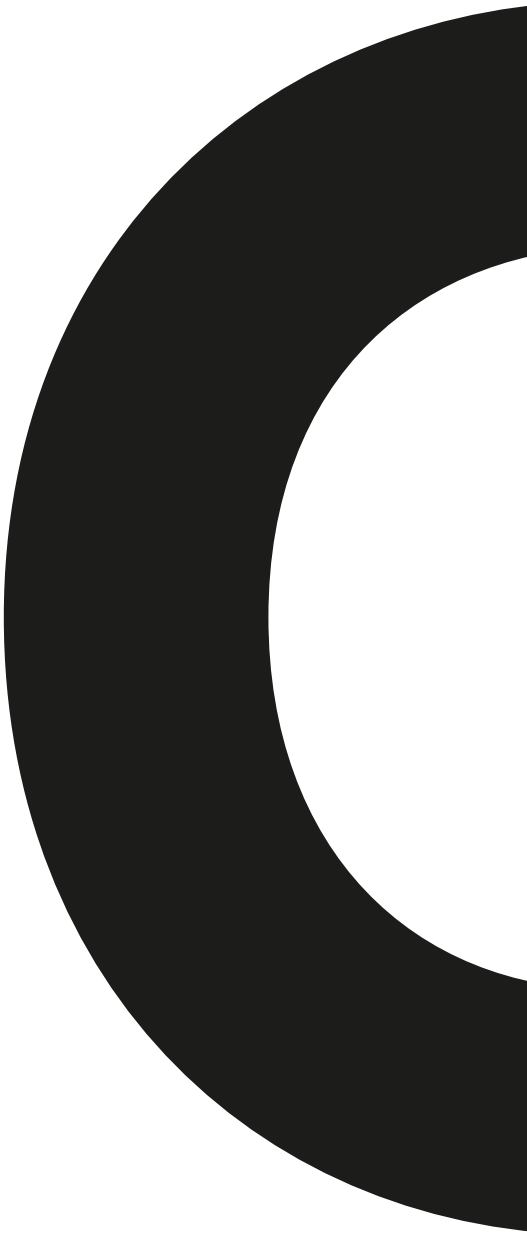

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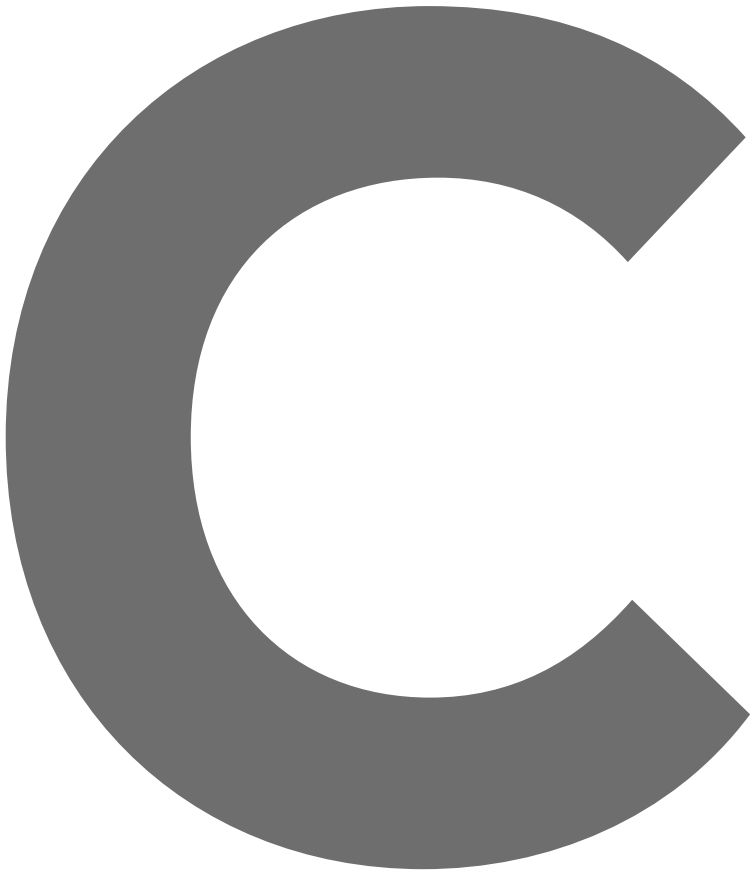

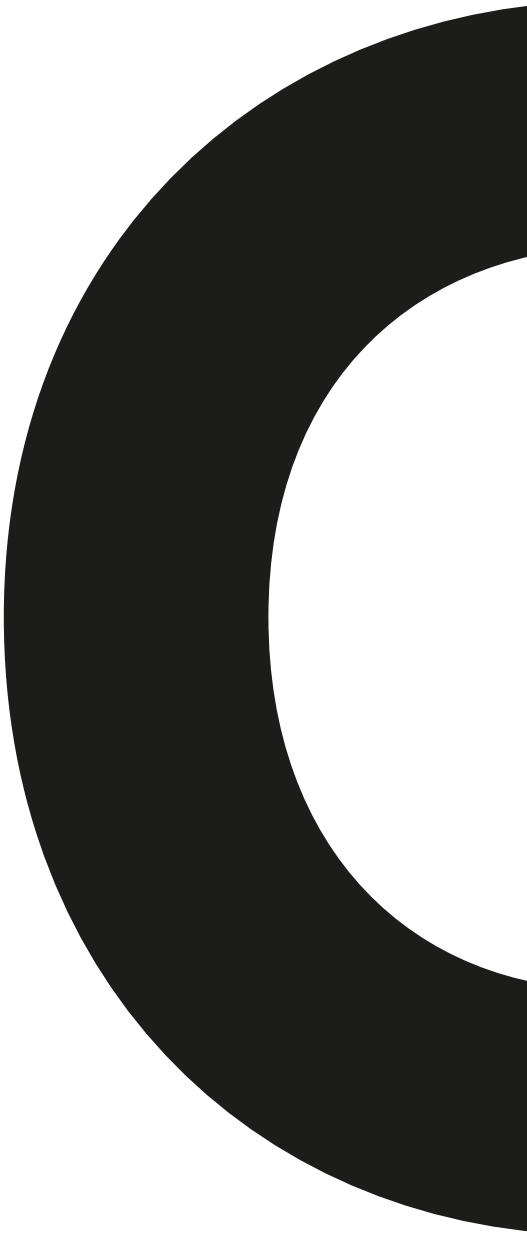

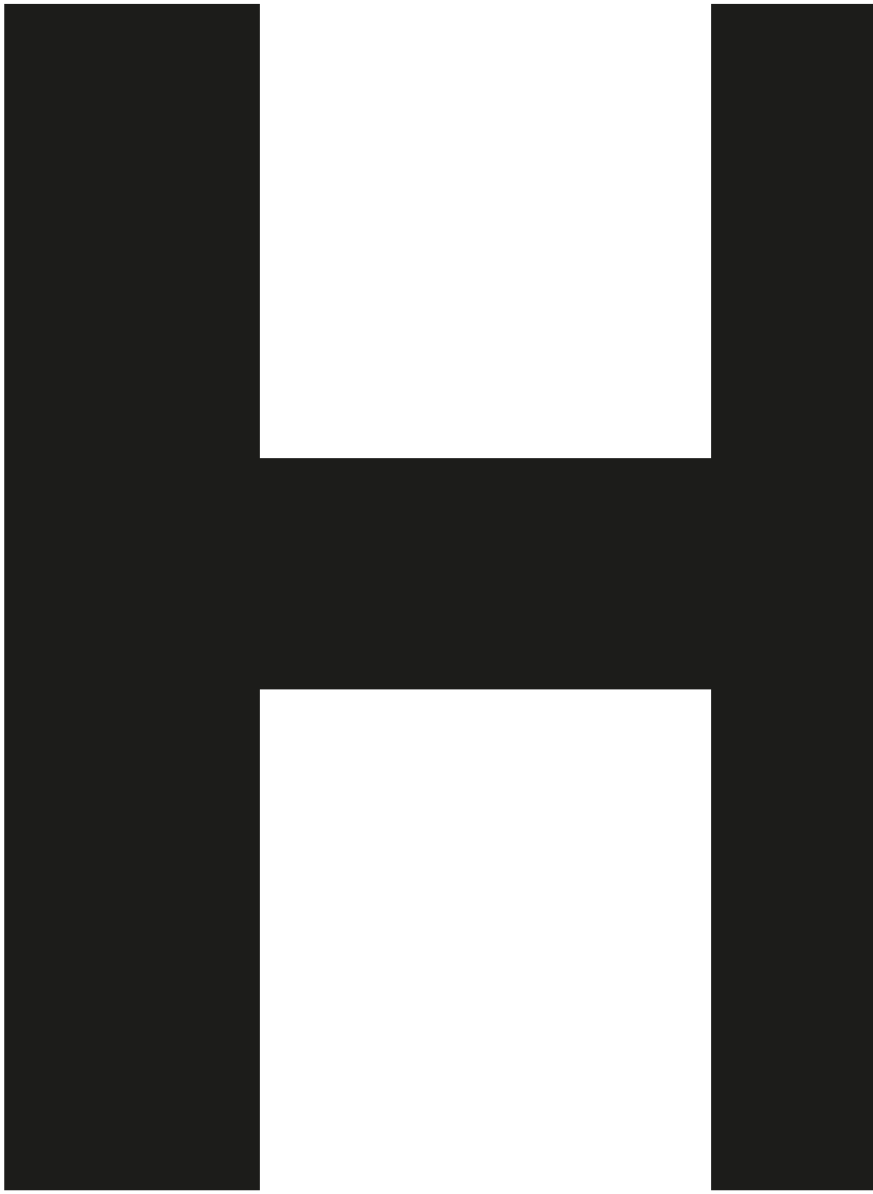

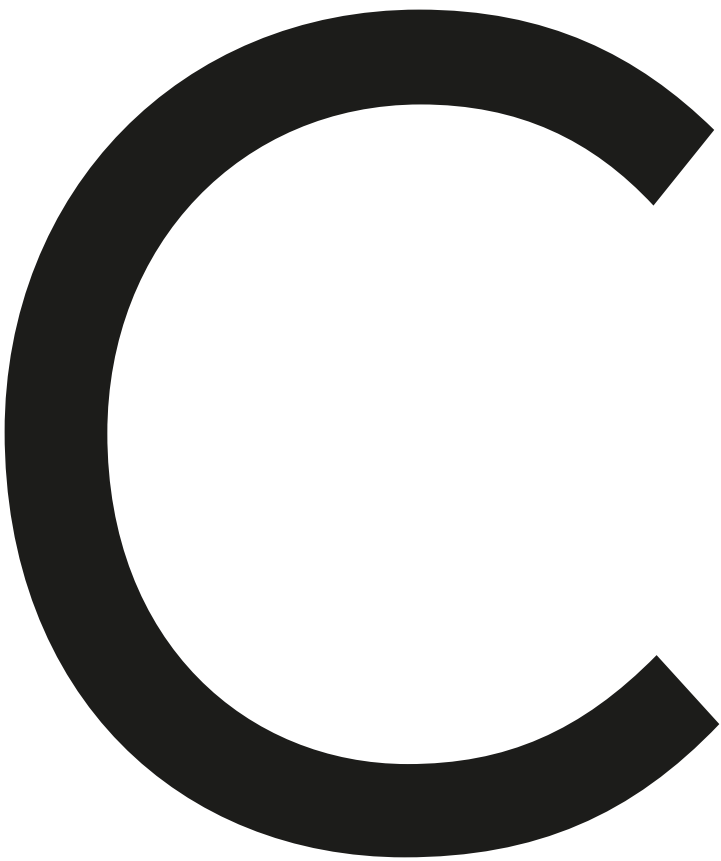

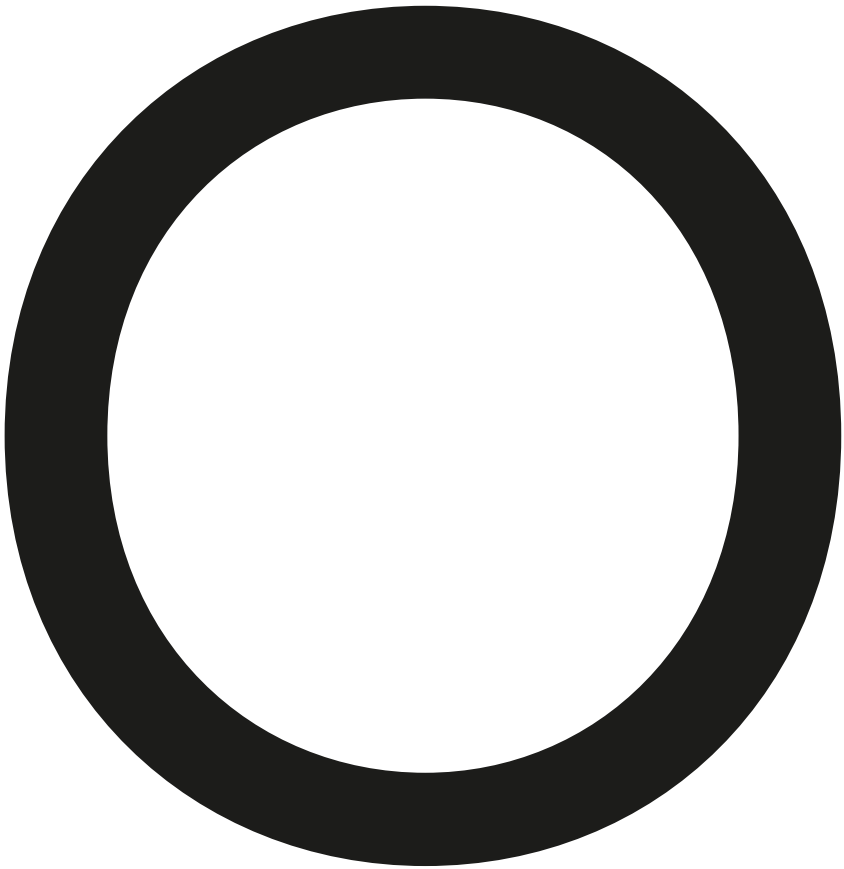

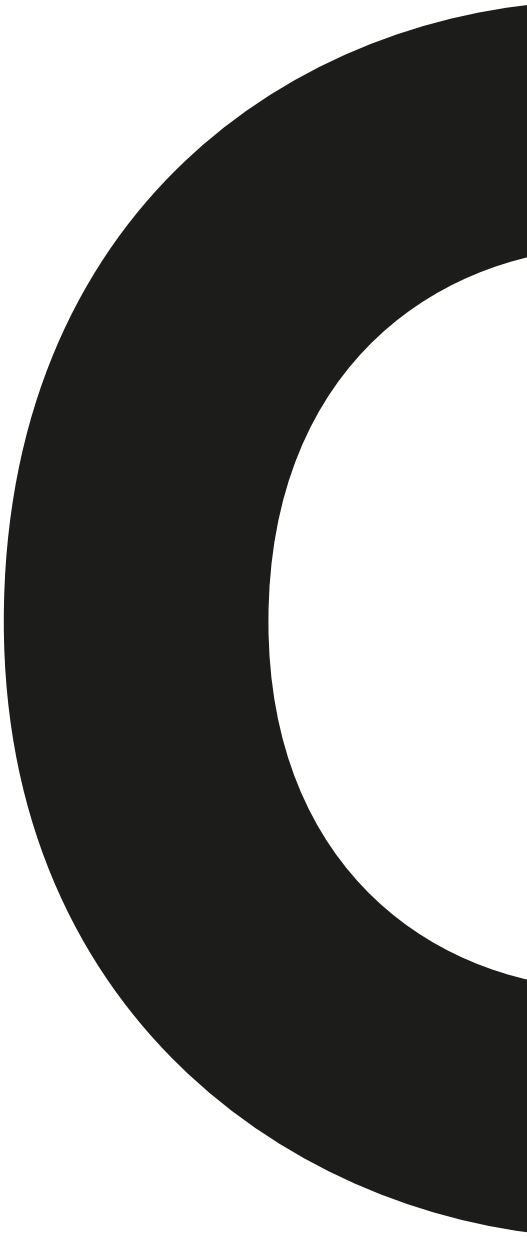

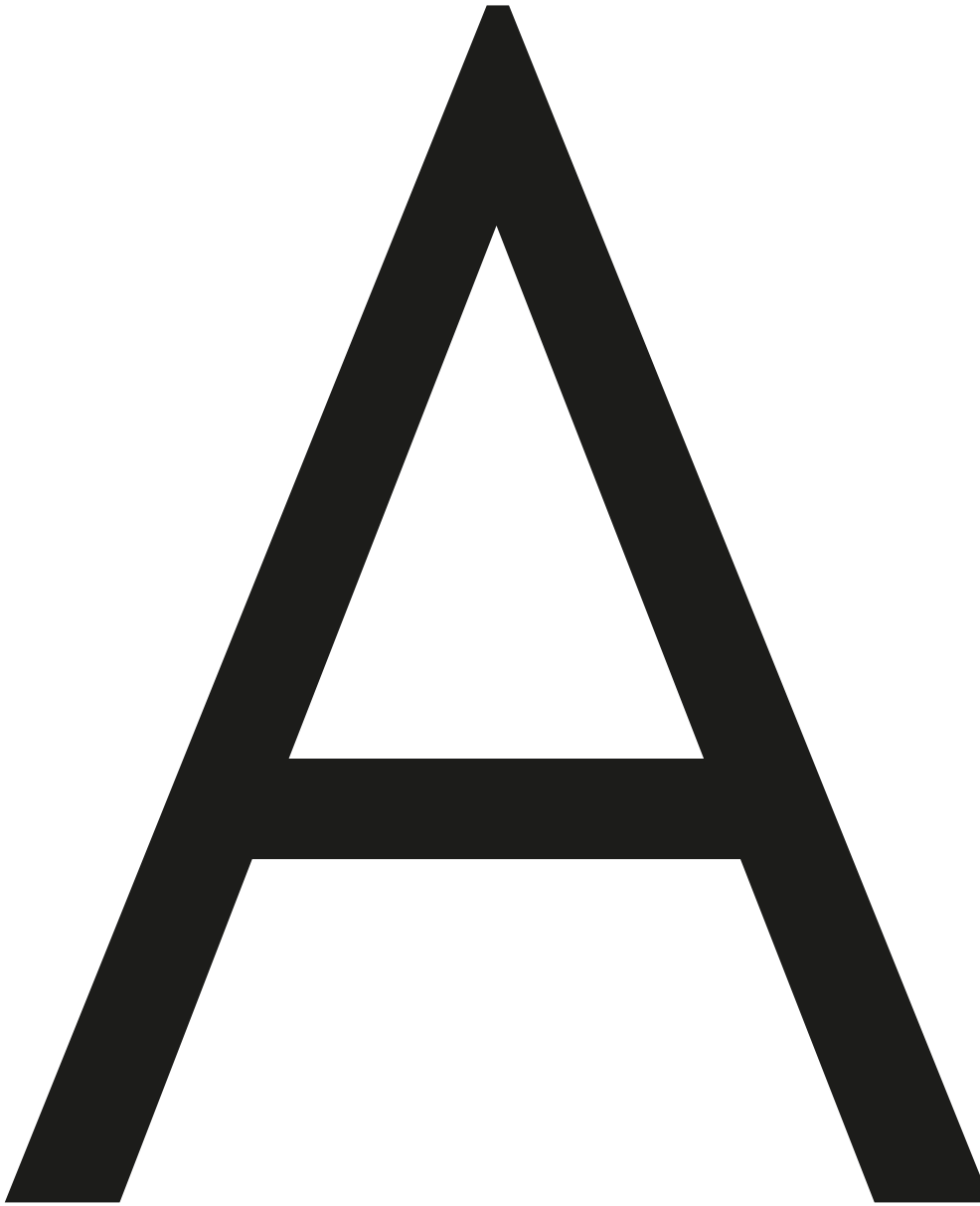

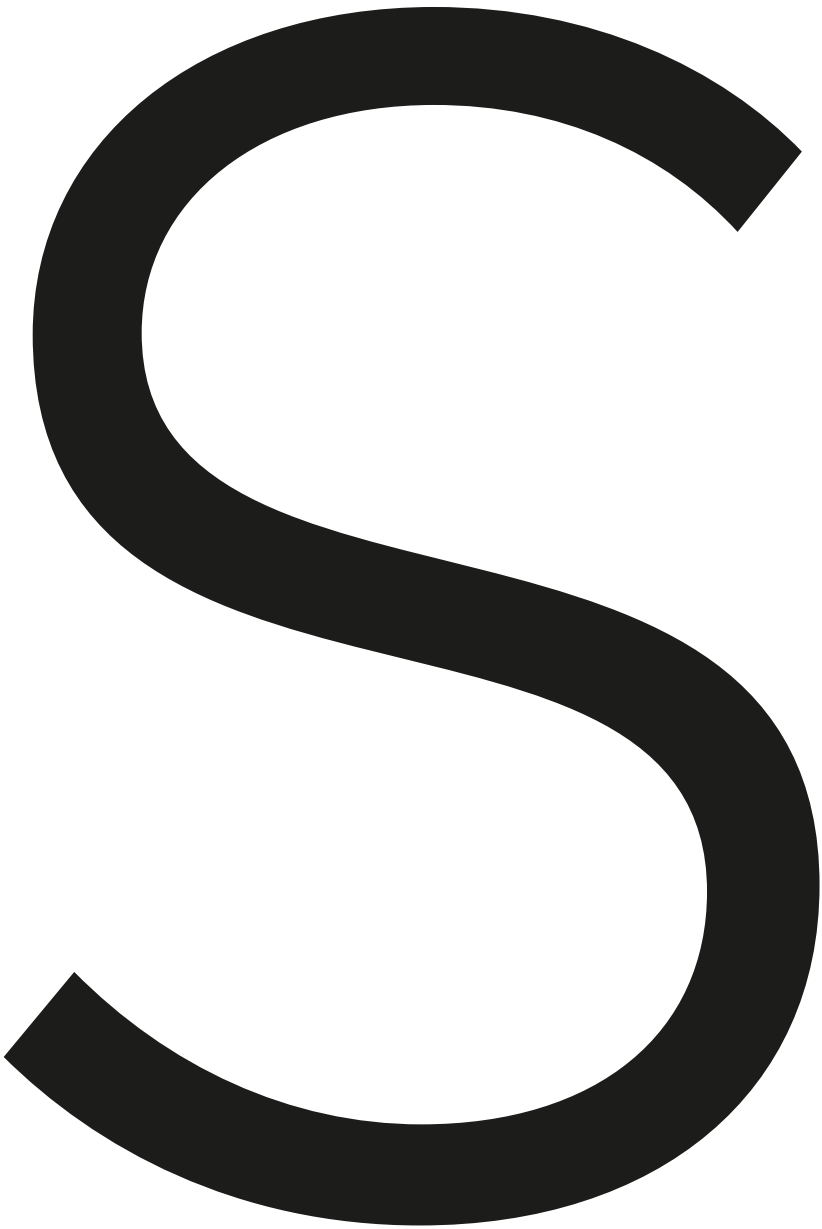

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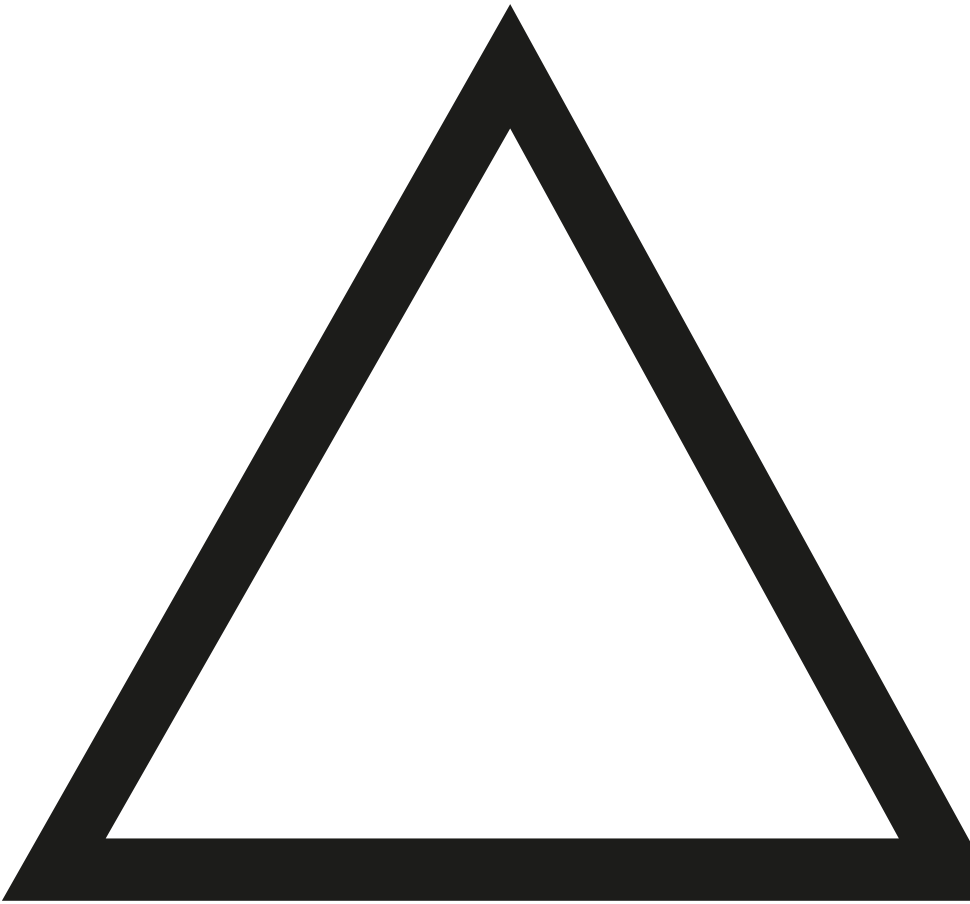

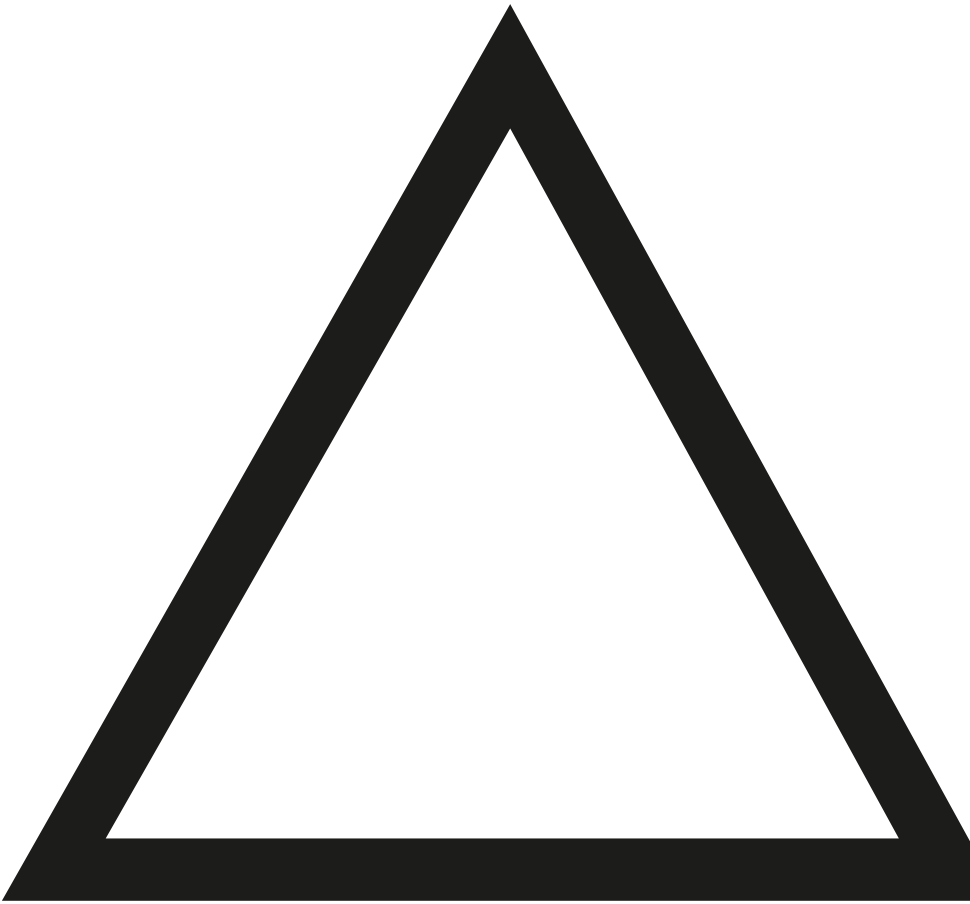

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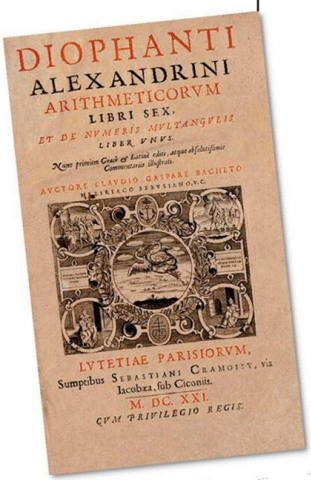
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LIBRI SEX.
ET DE NVMERIS MVLTANGVLIS
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Nunc primum Græcè & Latinè editi, atque absolutissimis Commentariis illustrati.
AVCTORE CLAVDIO GASPARE BACHETO
M. SIRIACO SEBVSIANO V. C.
LVTETIAE PARISIORVM,
Sumptibus SEBASTIANI CRAMOISY, viâ Iacobæa, sub Ciconiis.
M. DC. XXI.
CVM PRIVILEGIO REGIS.

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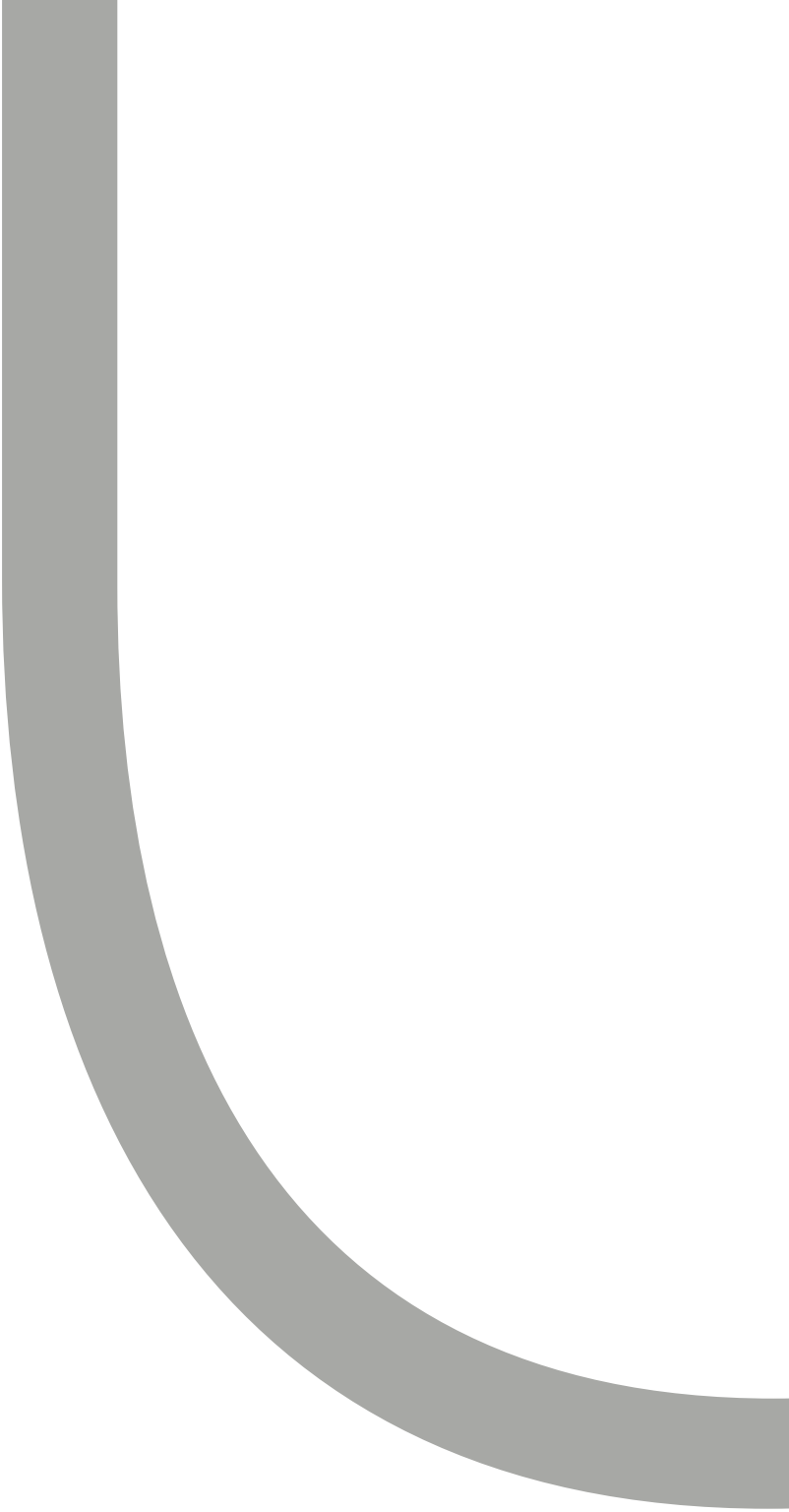

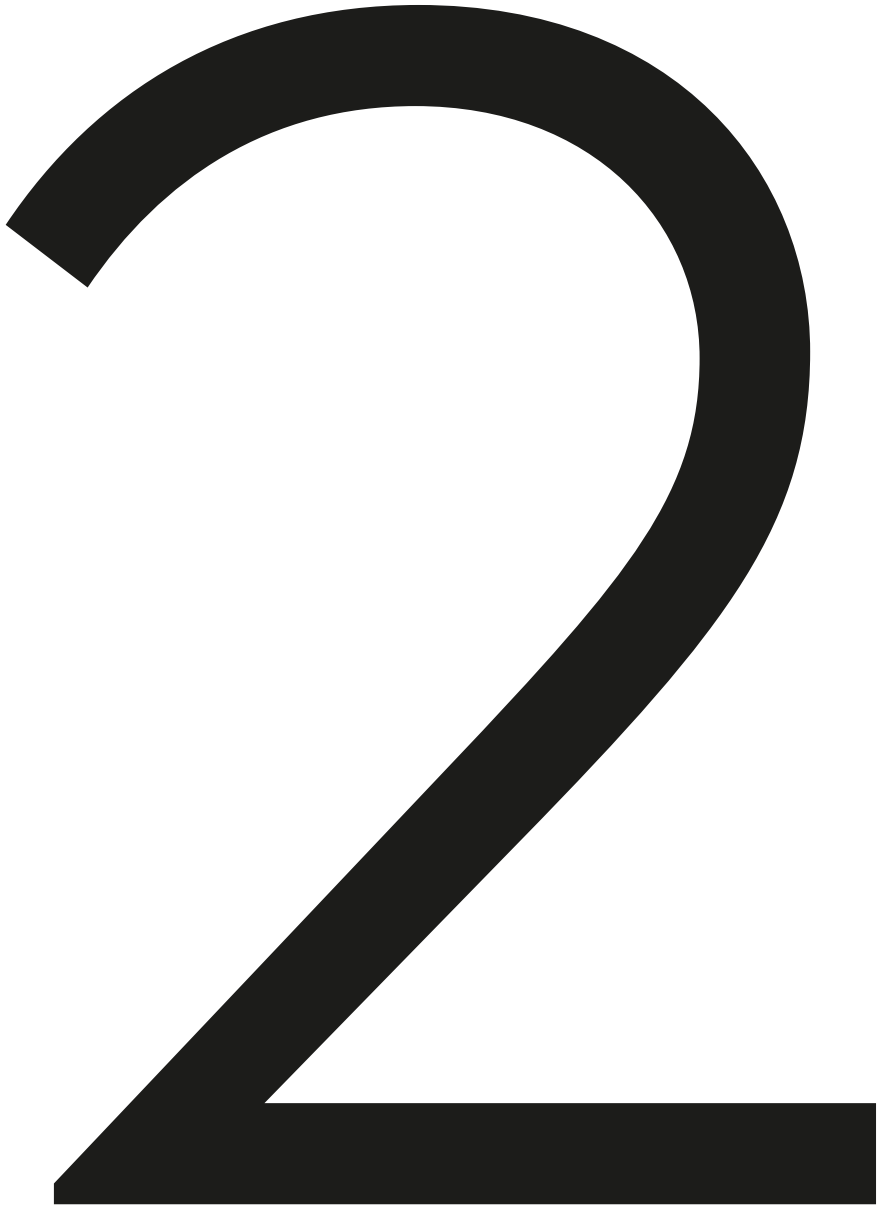

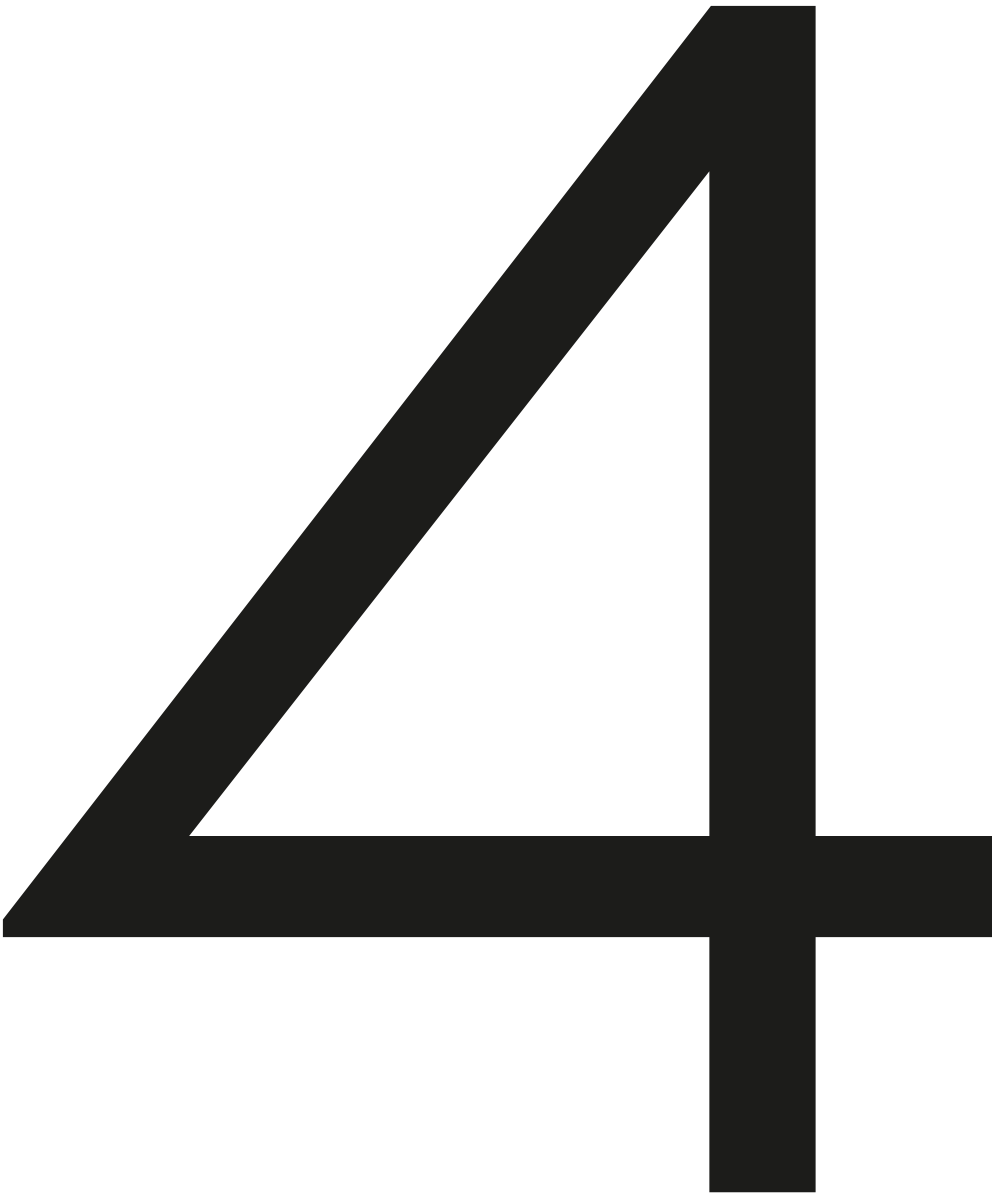

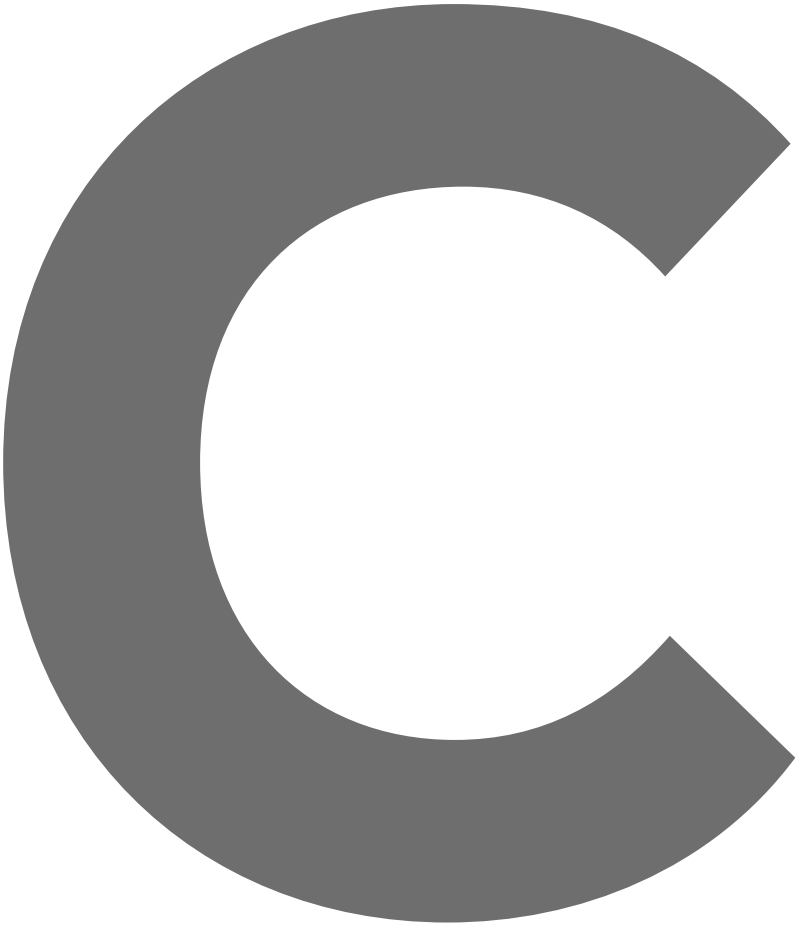

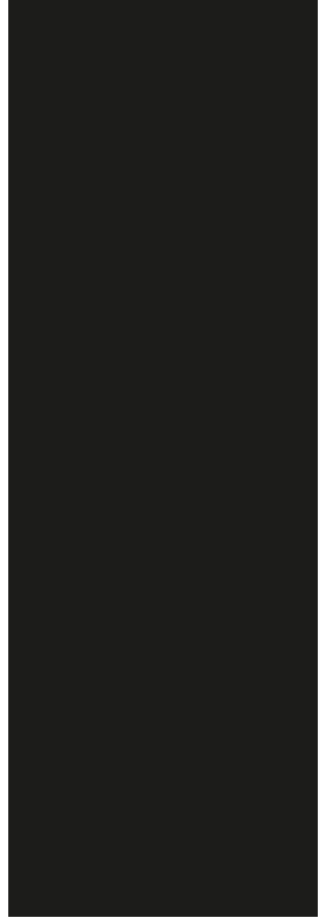

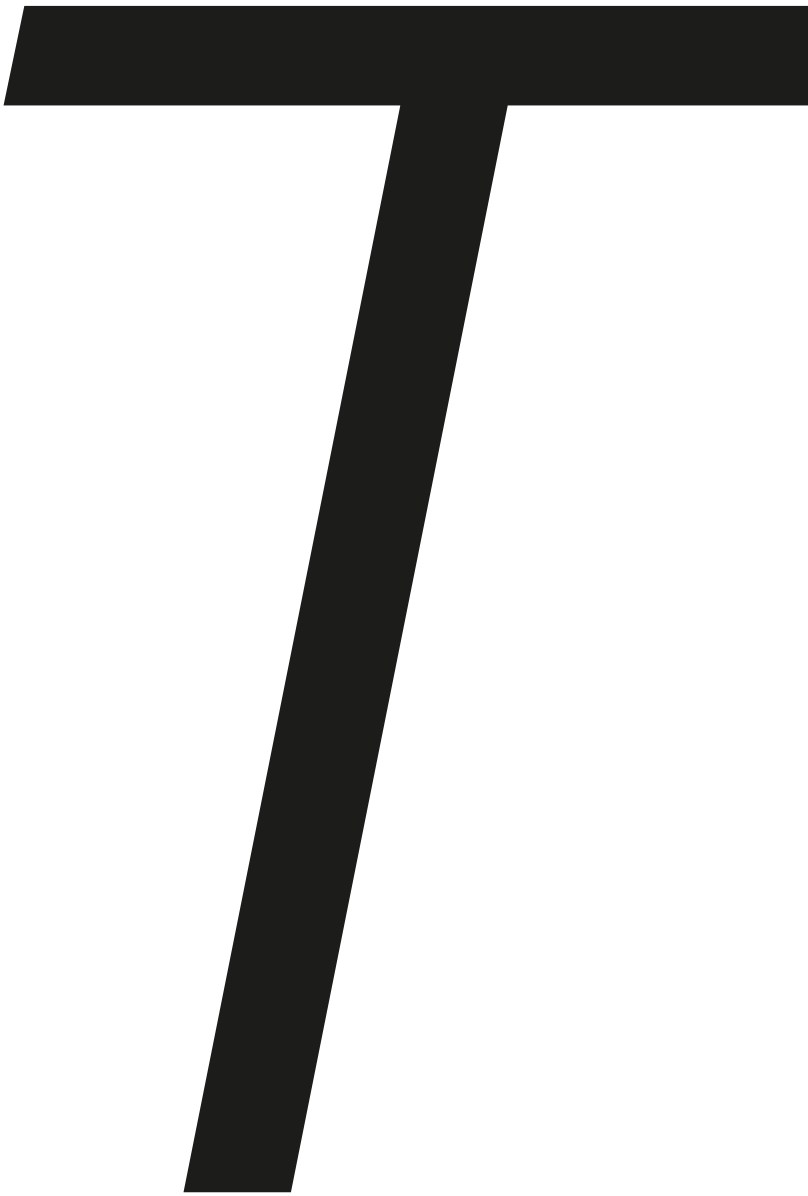

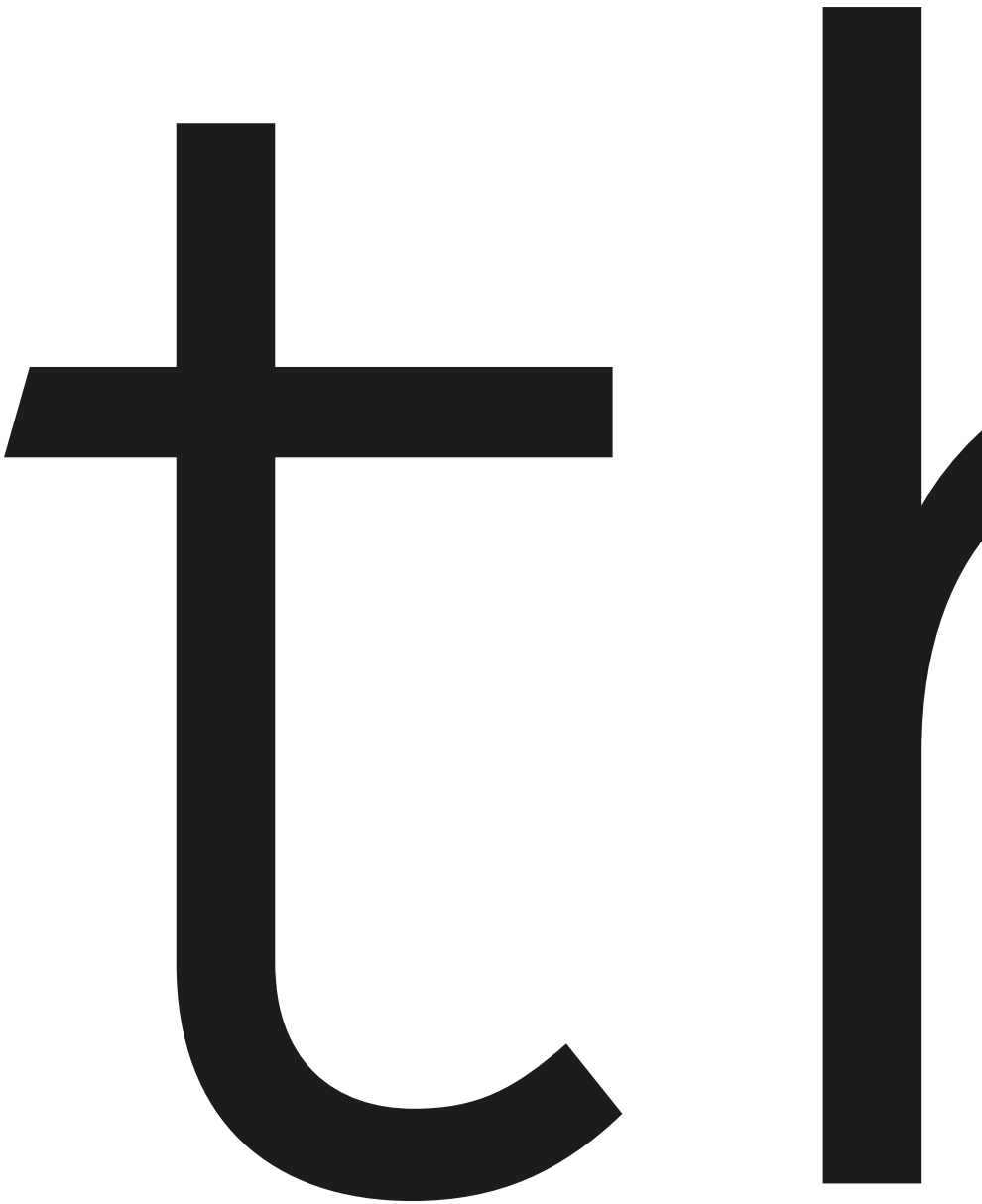

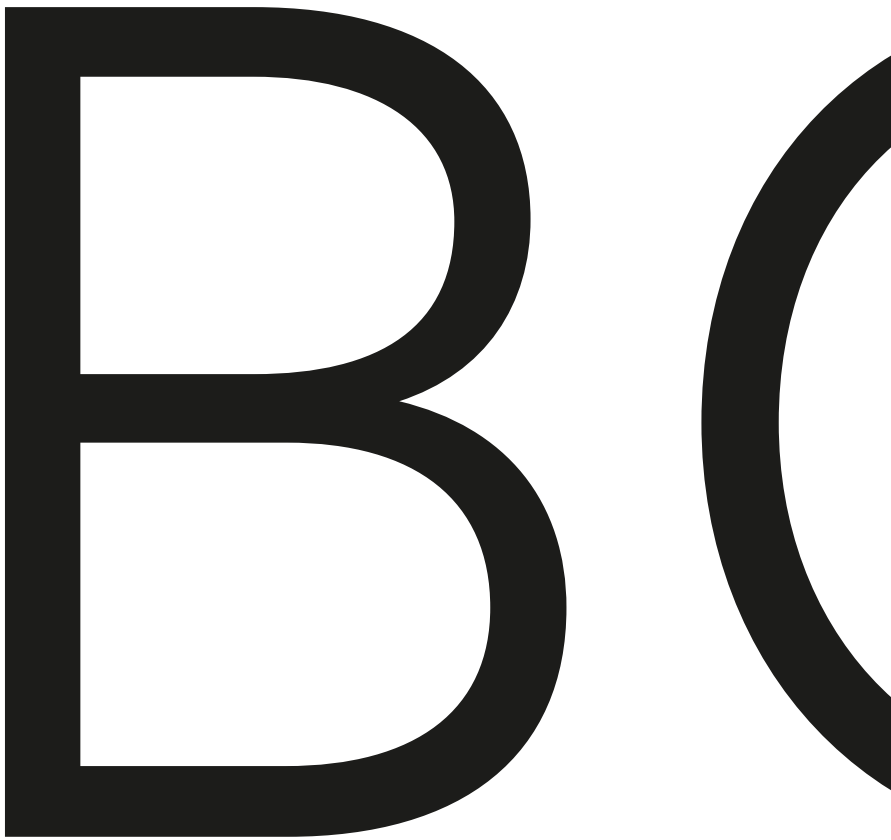

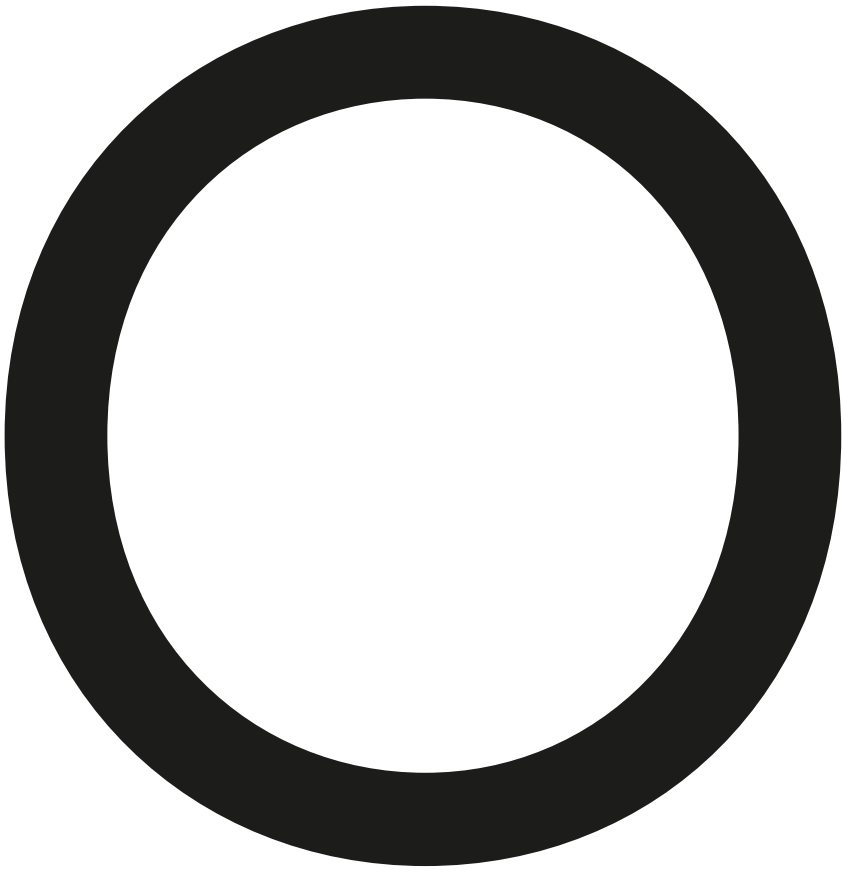

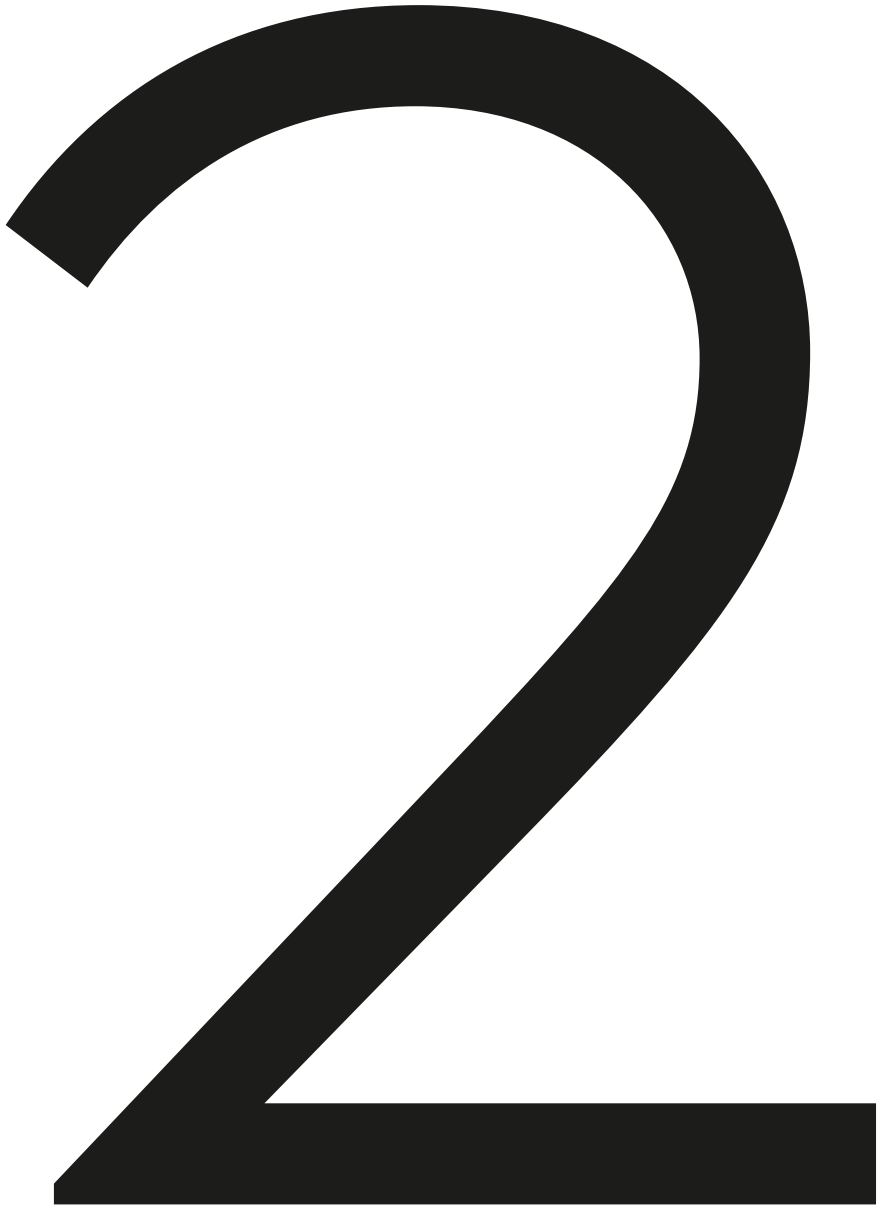

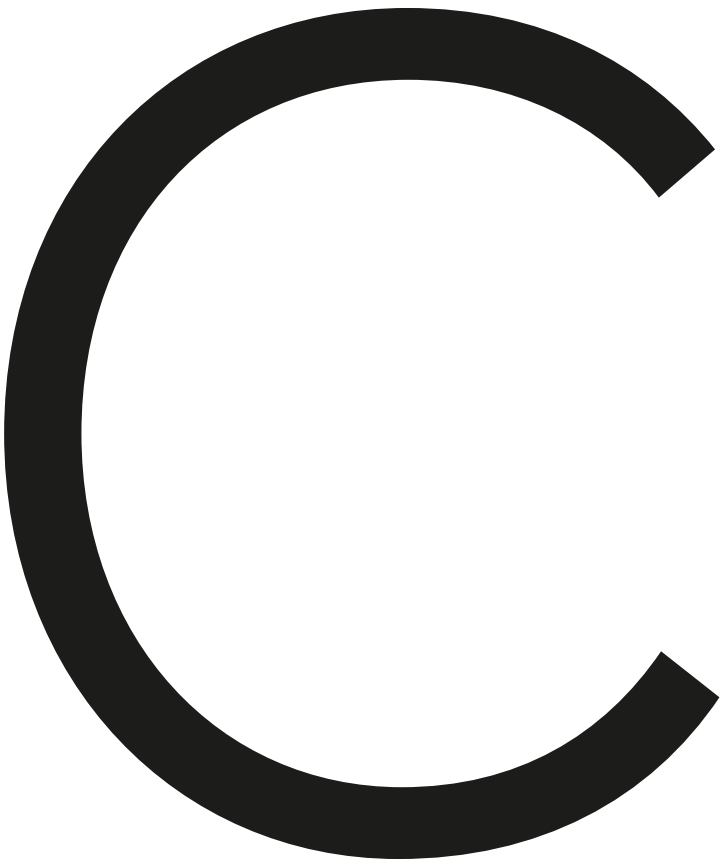

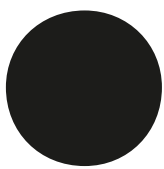

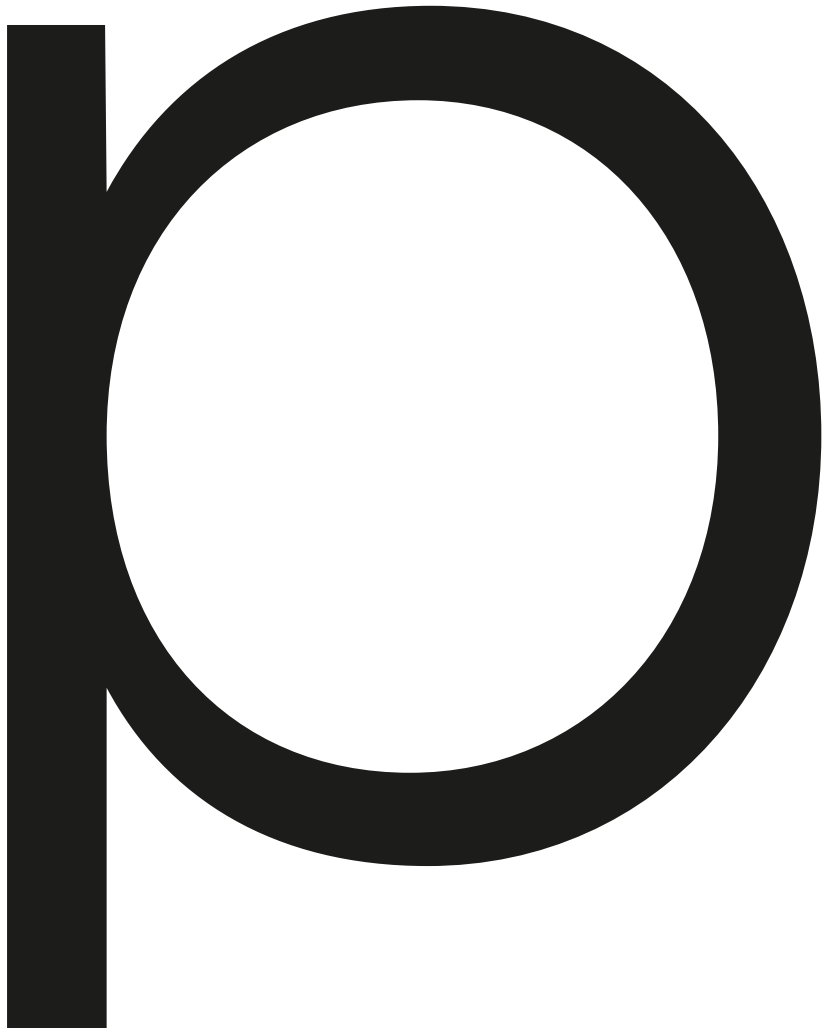

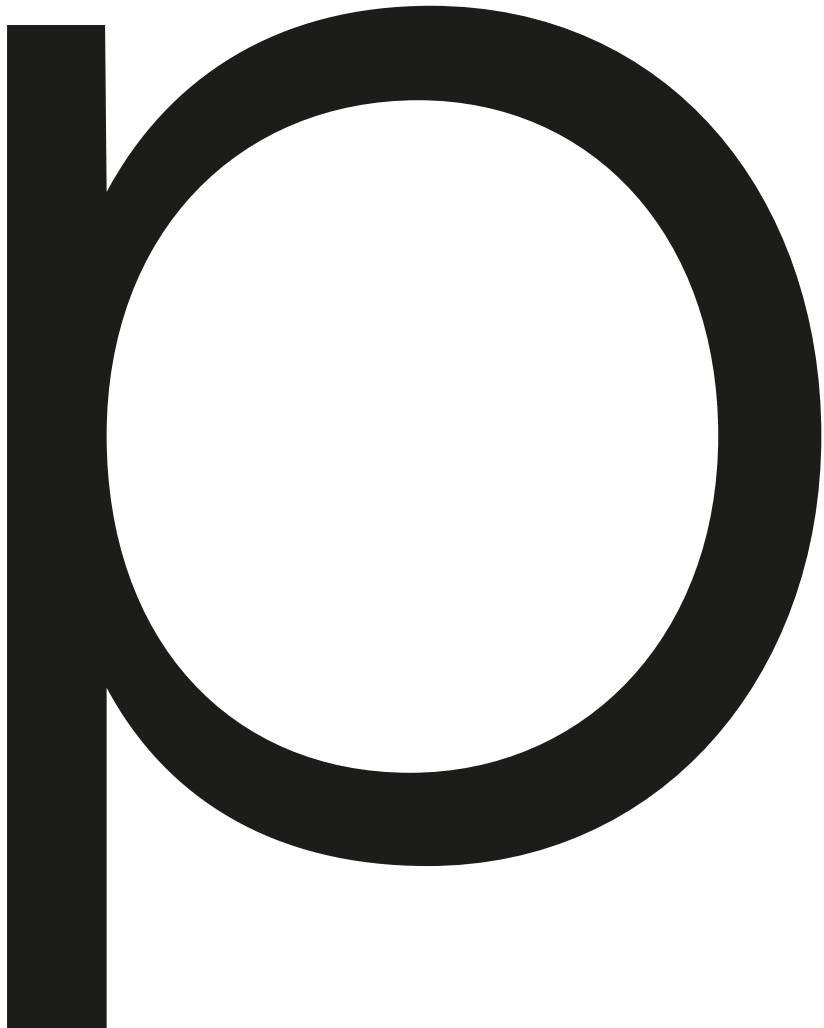

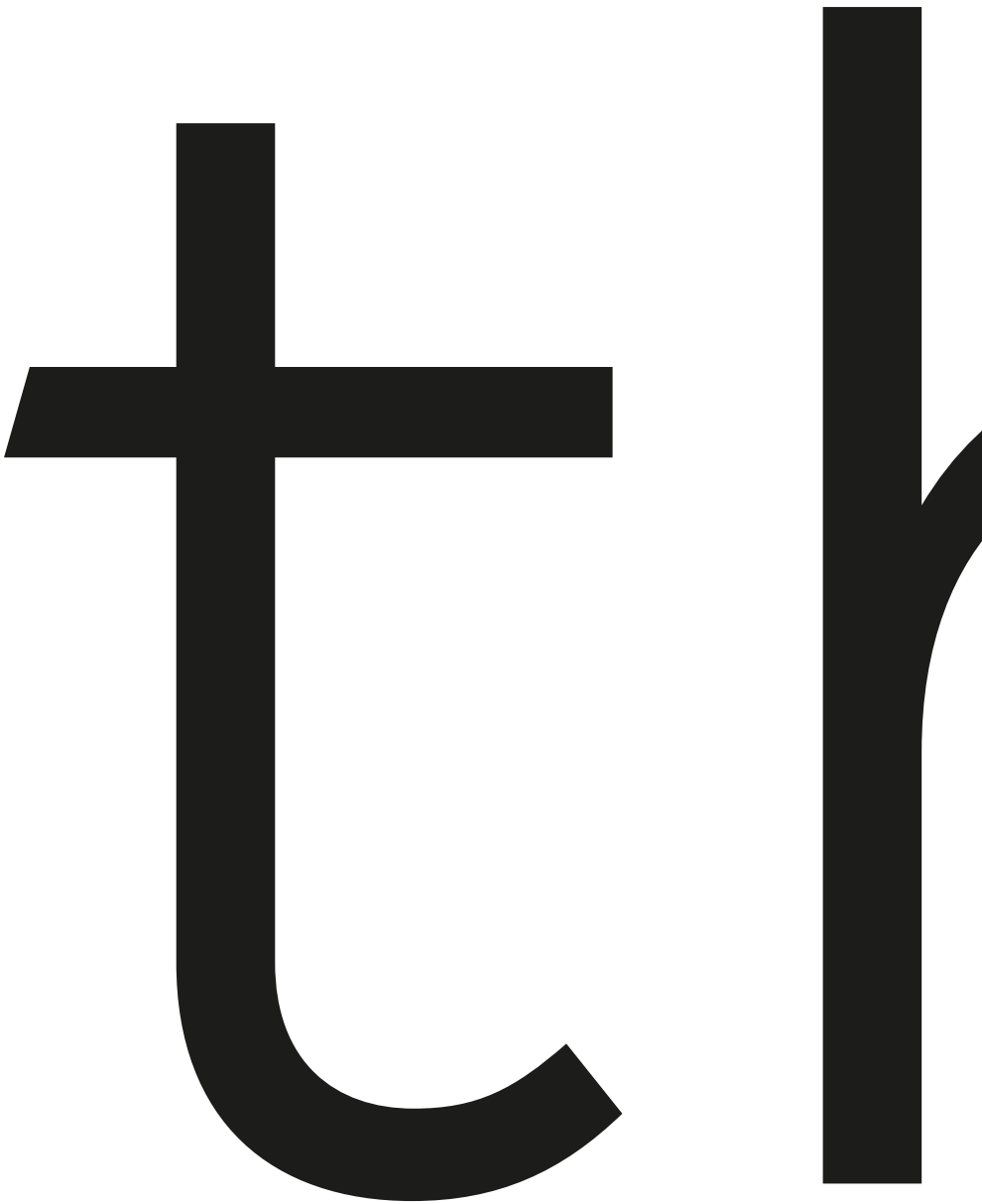

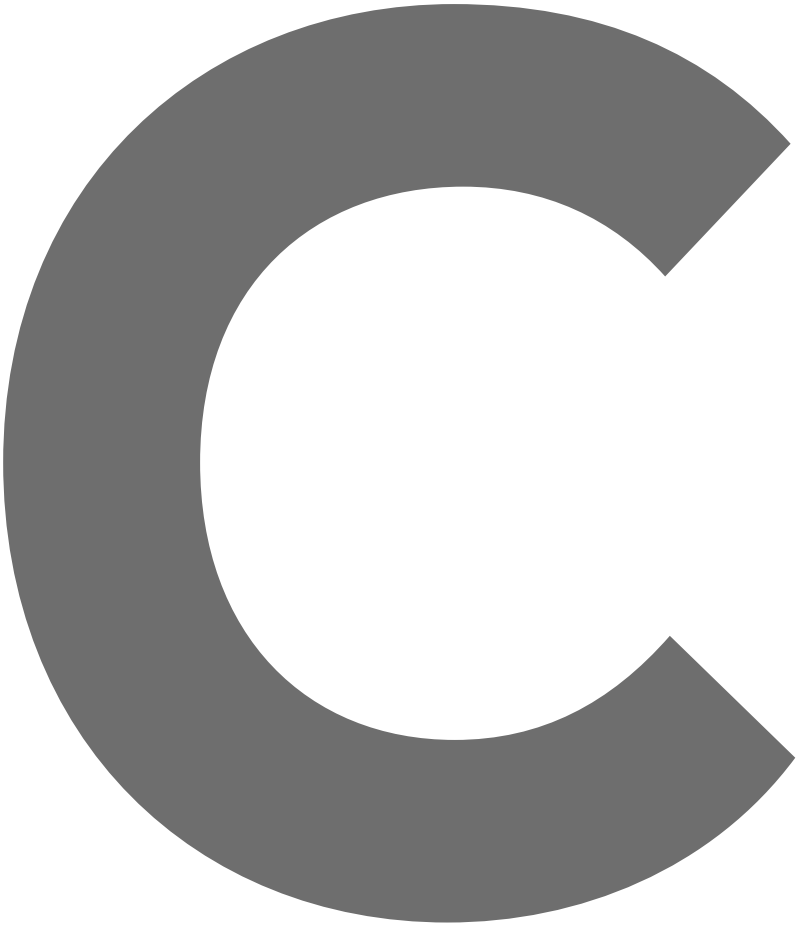

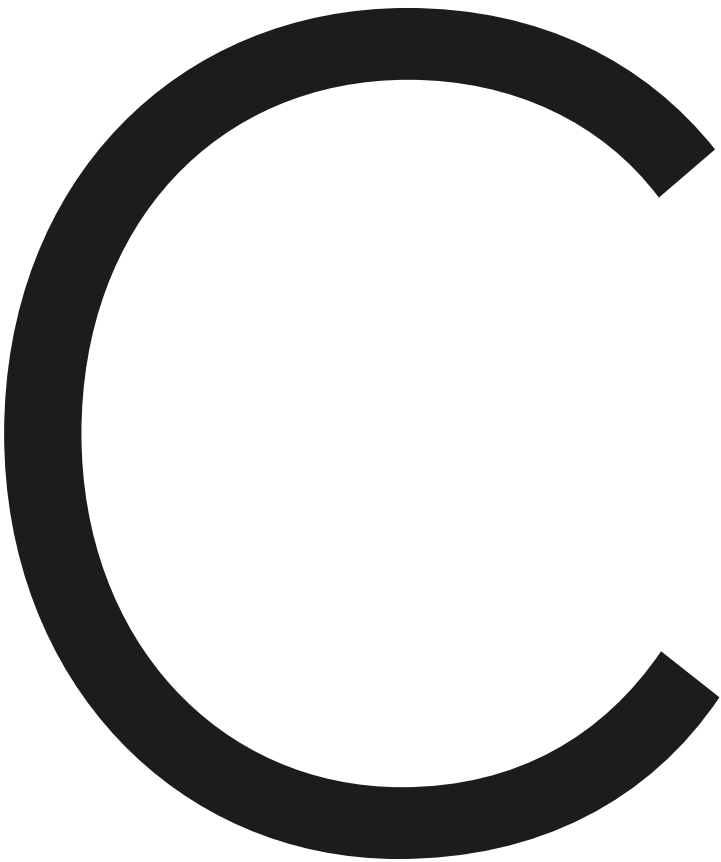

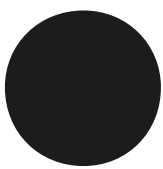

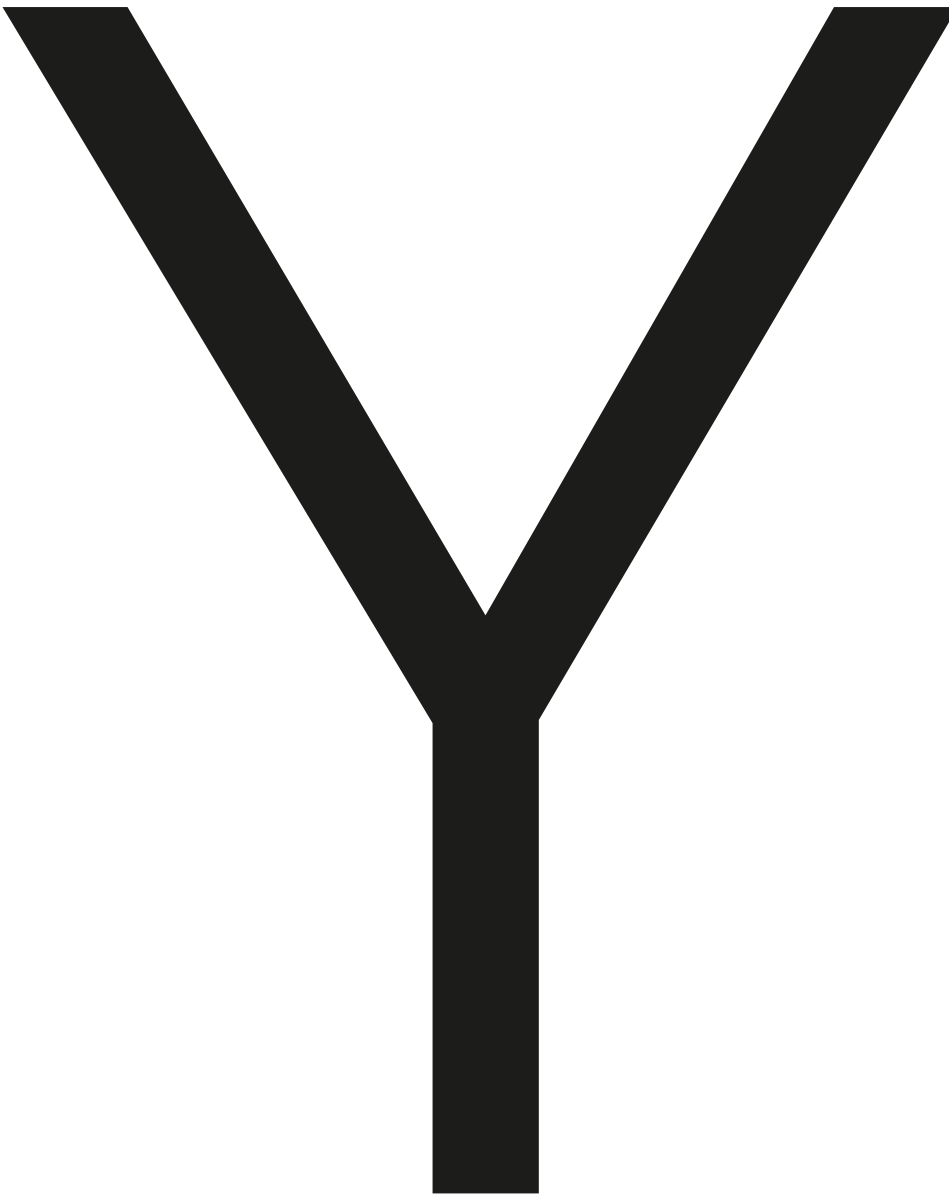

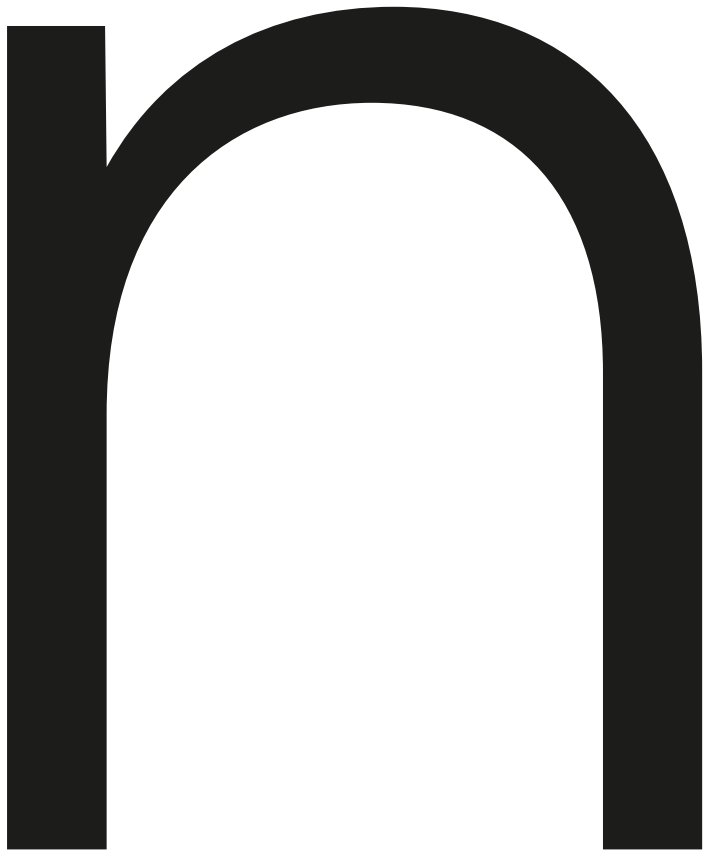

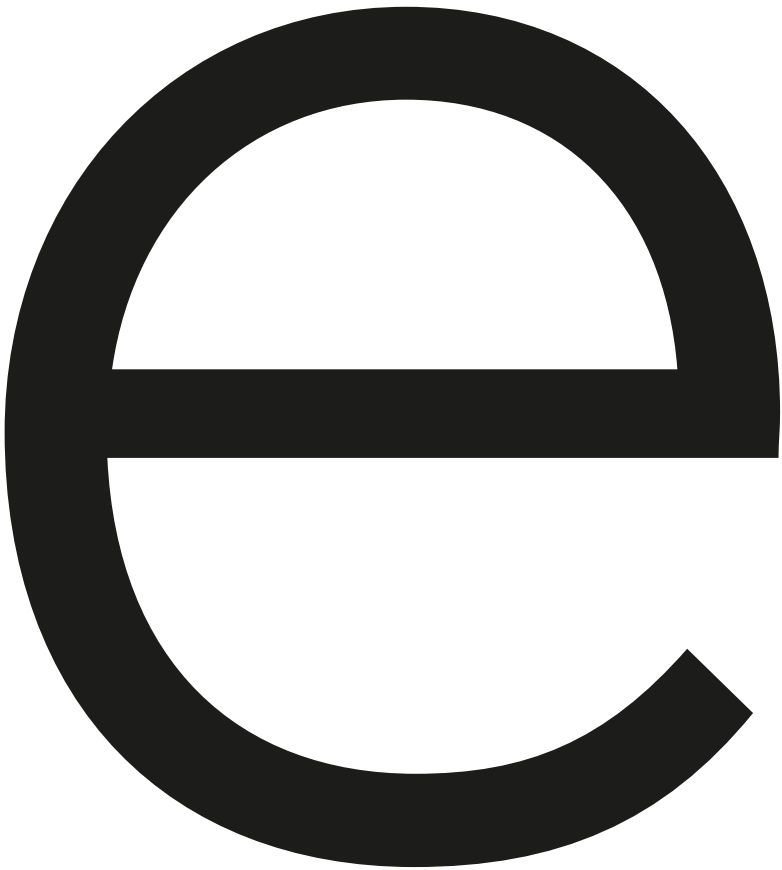

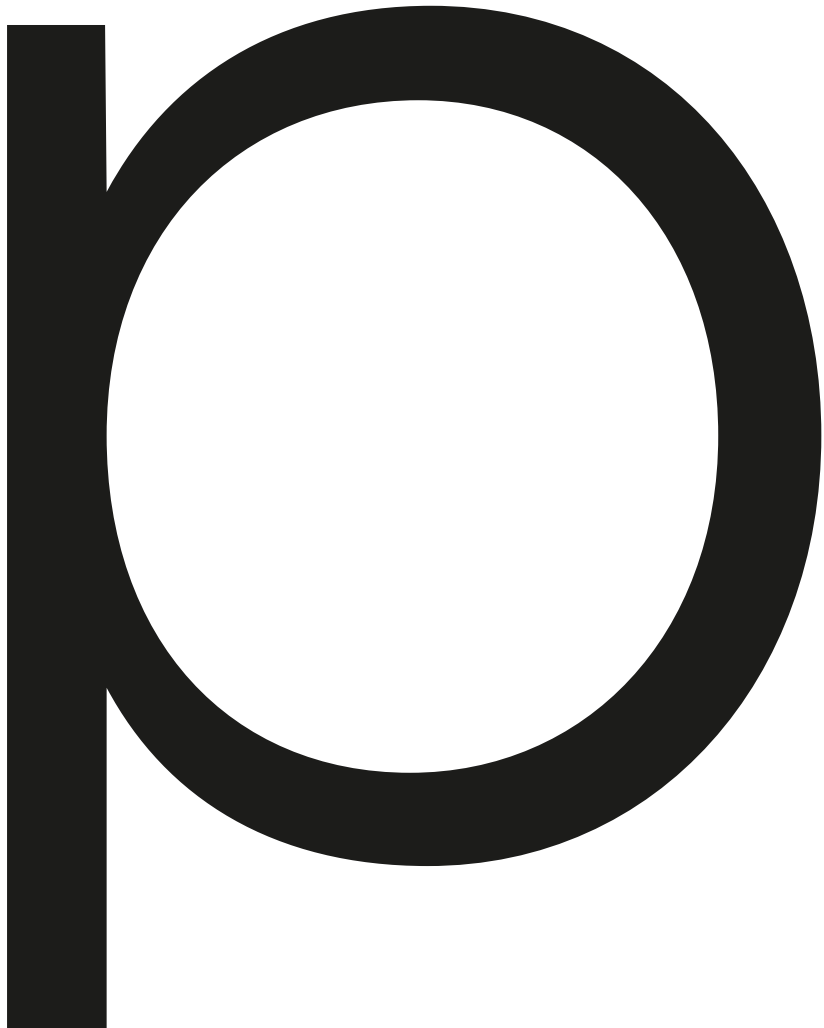

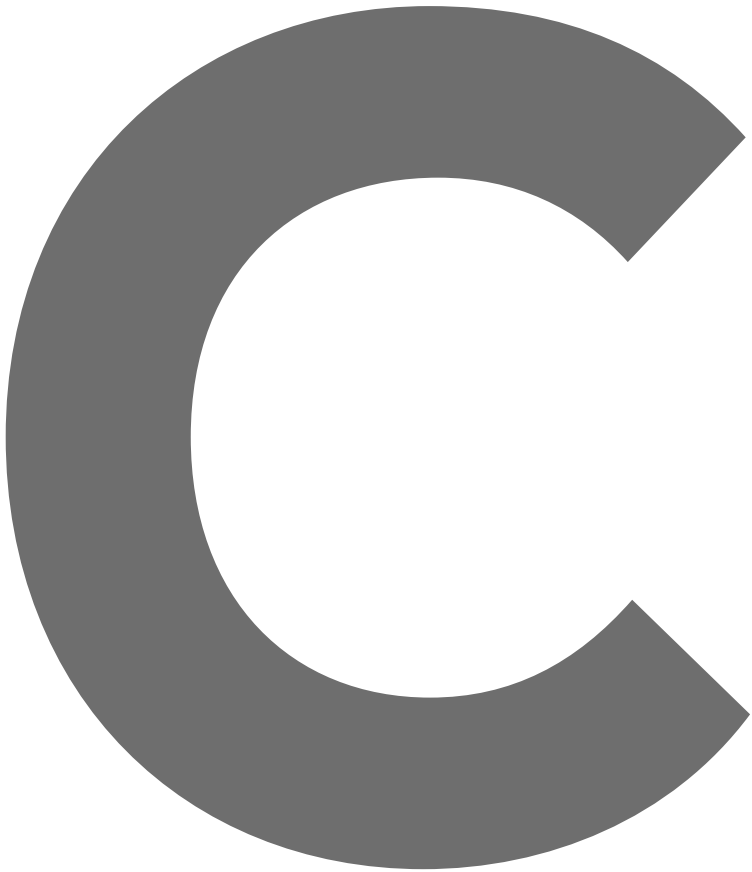

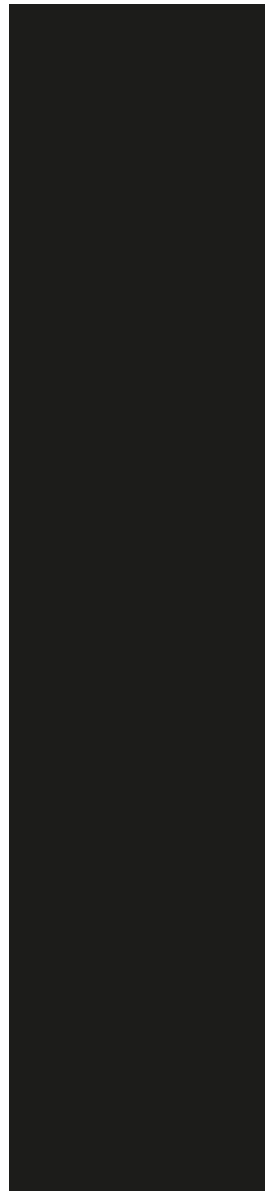

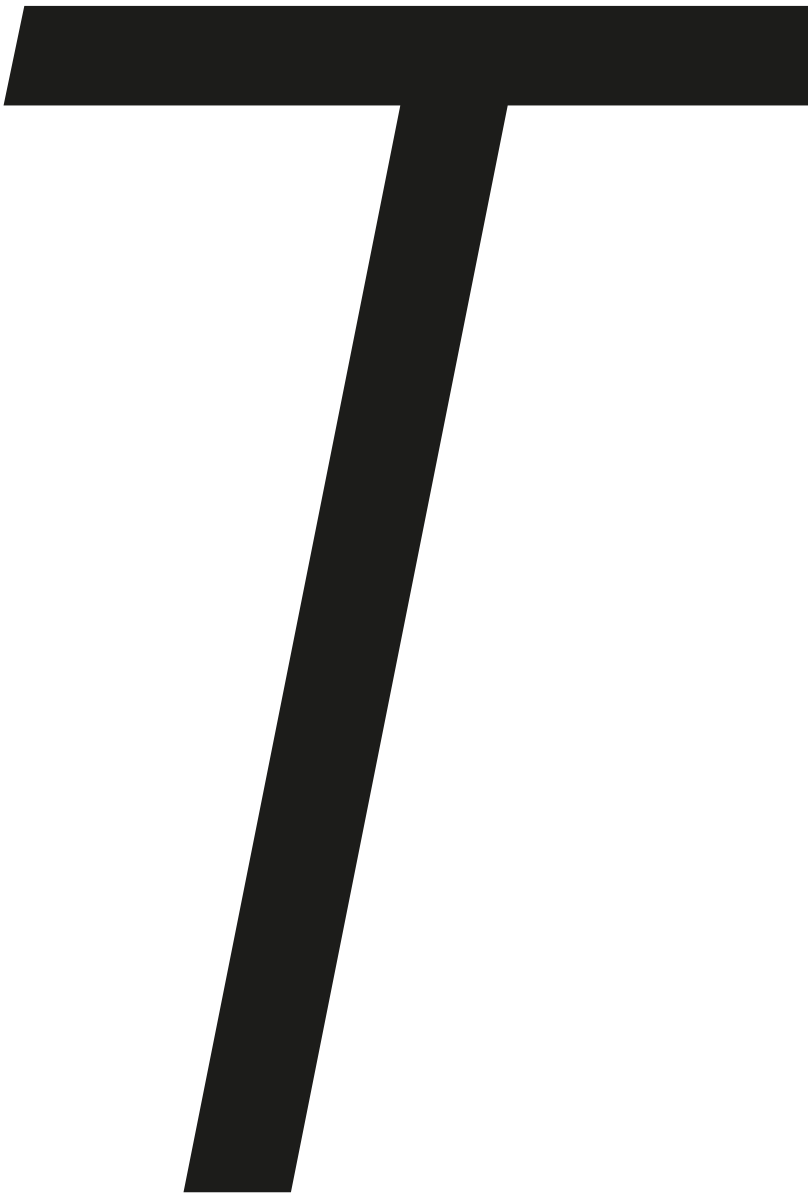

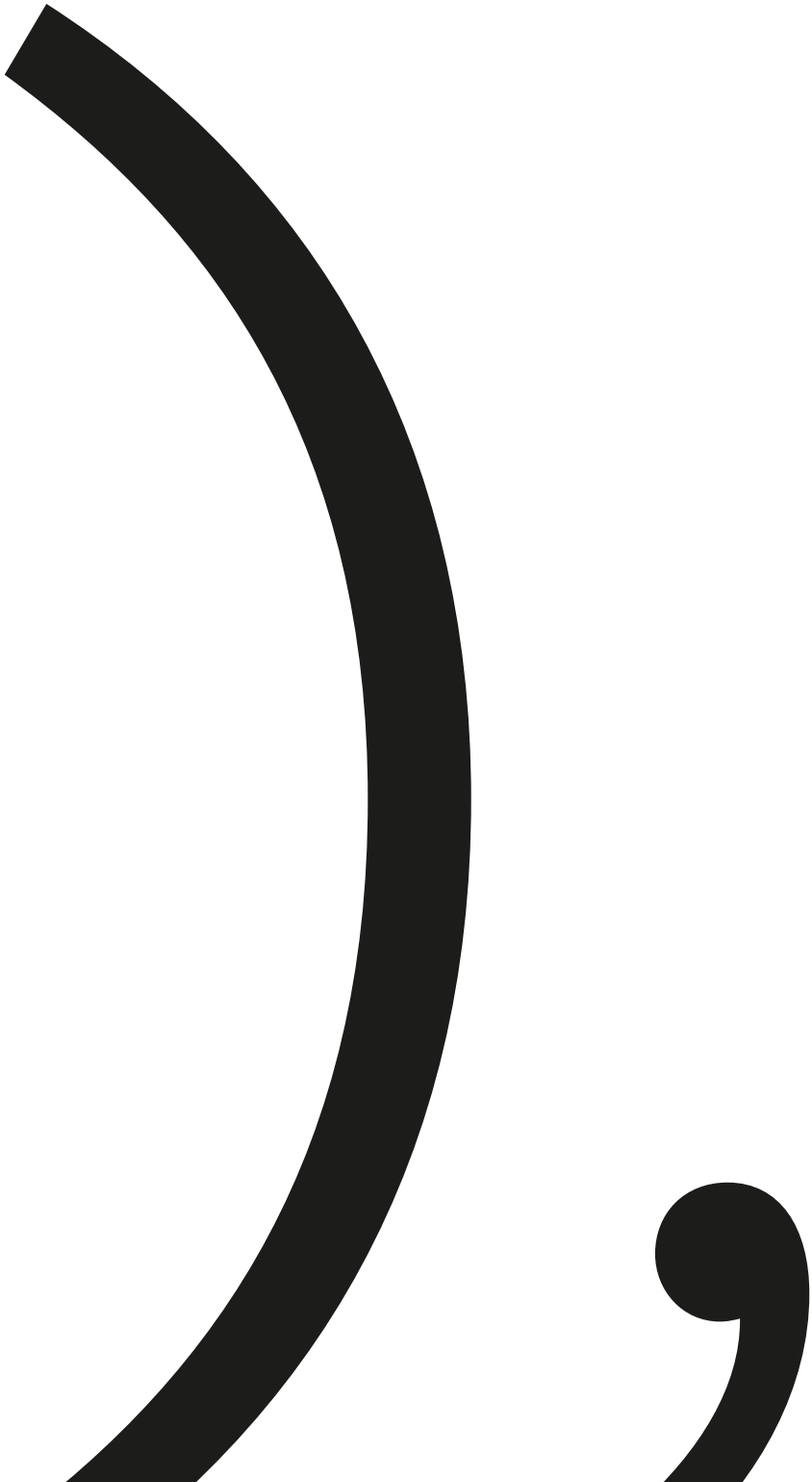

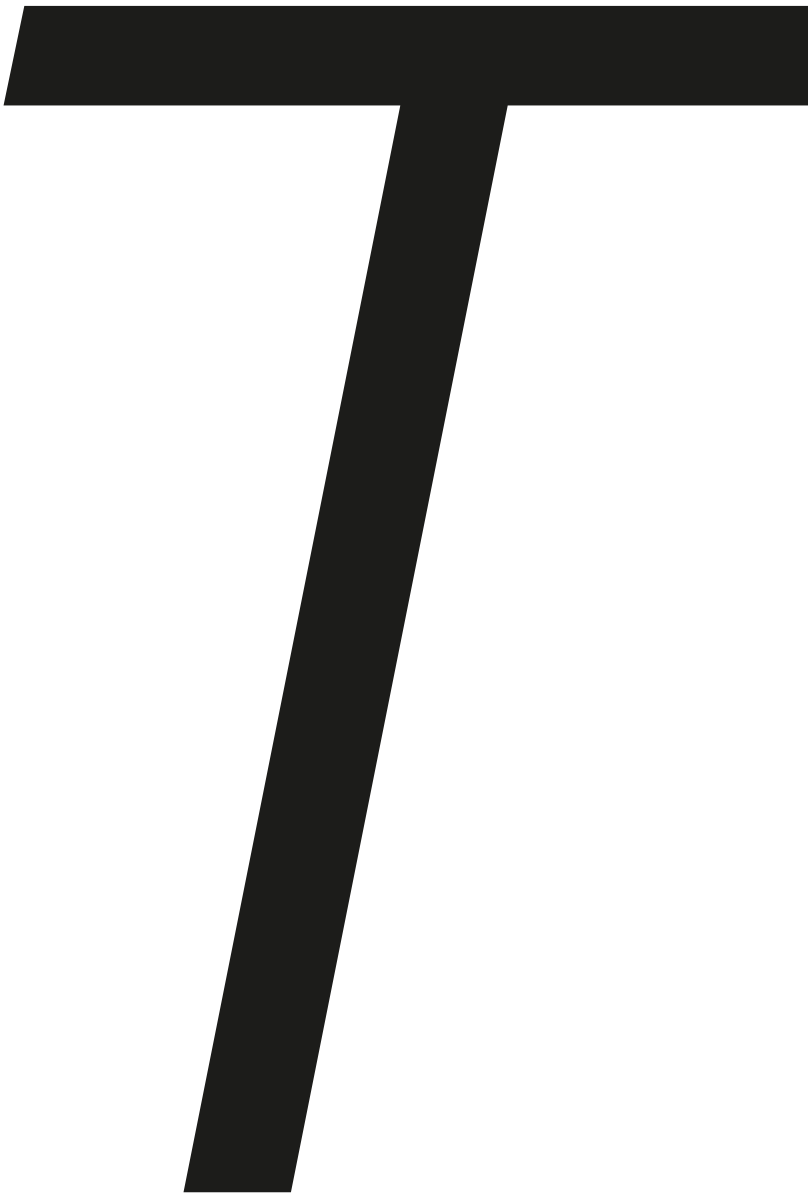

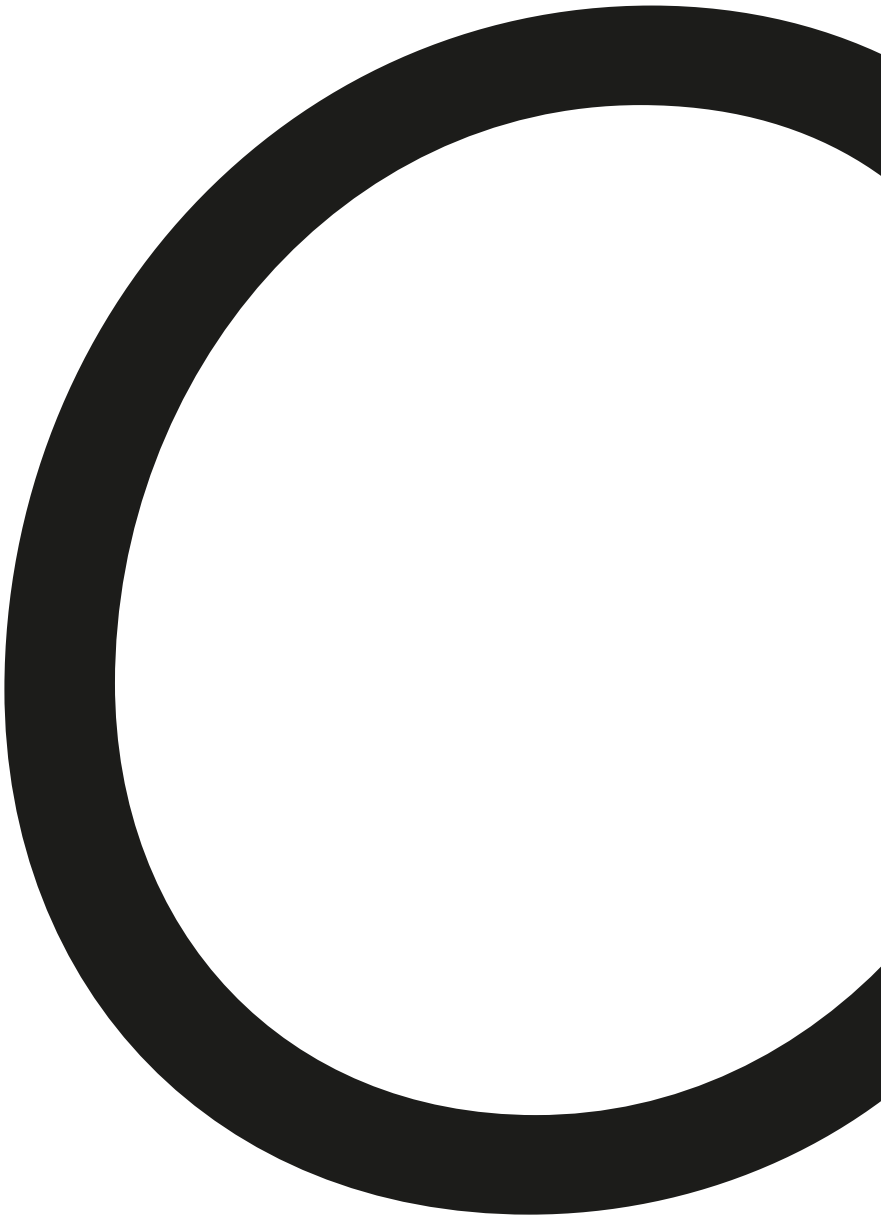

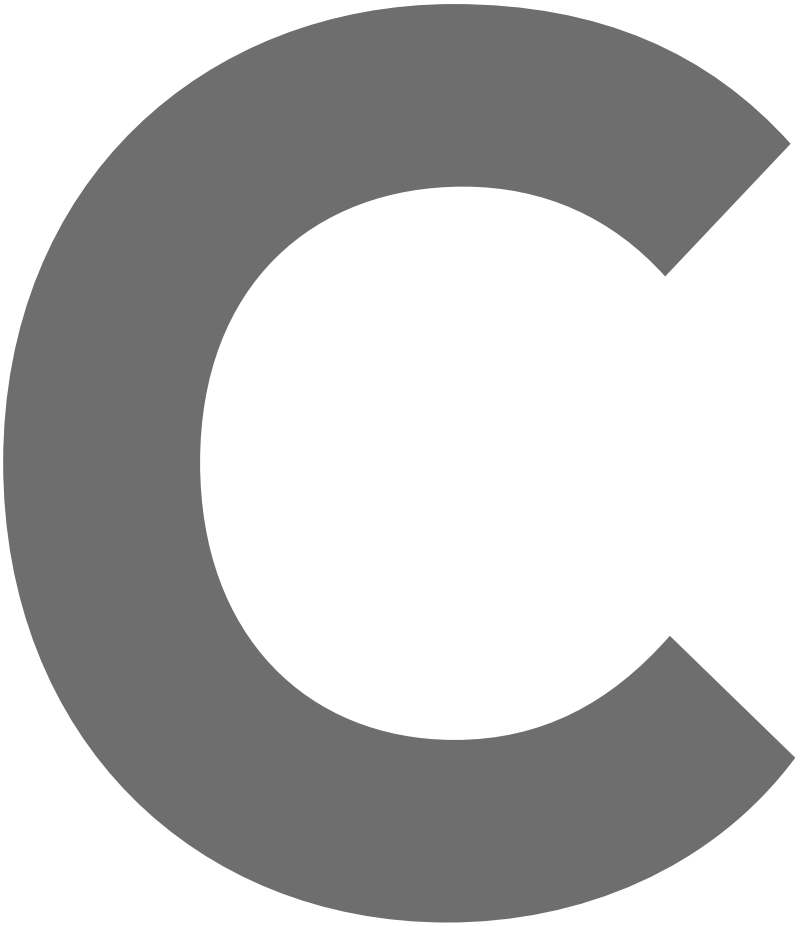

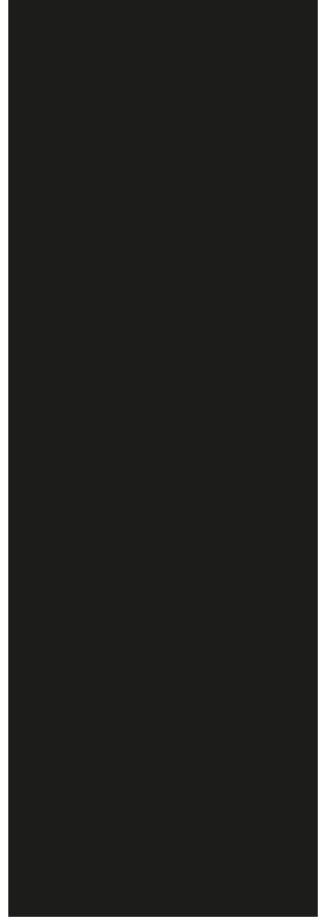

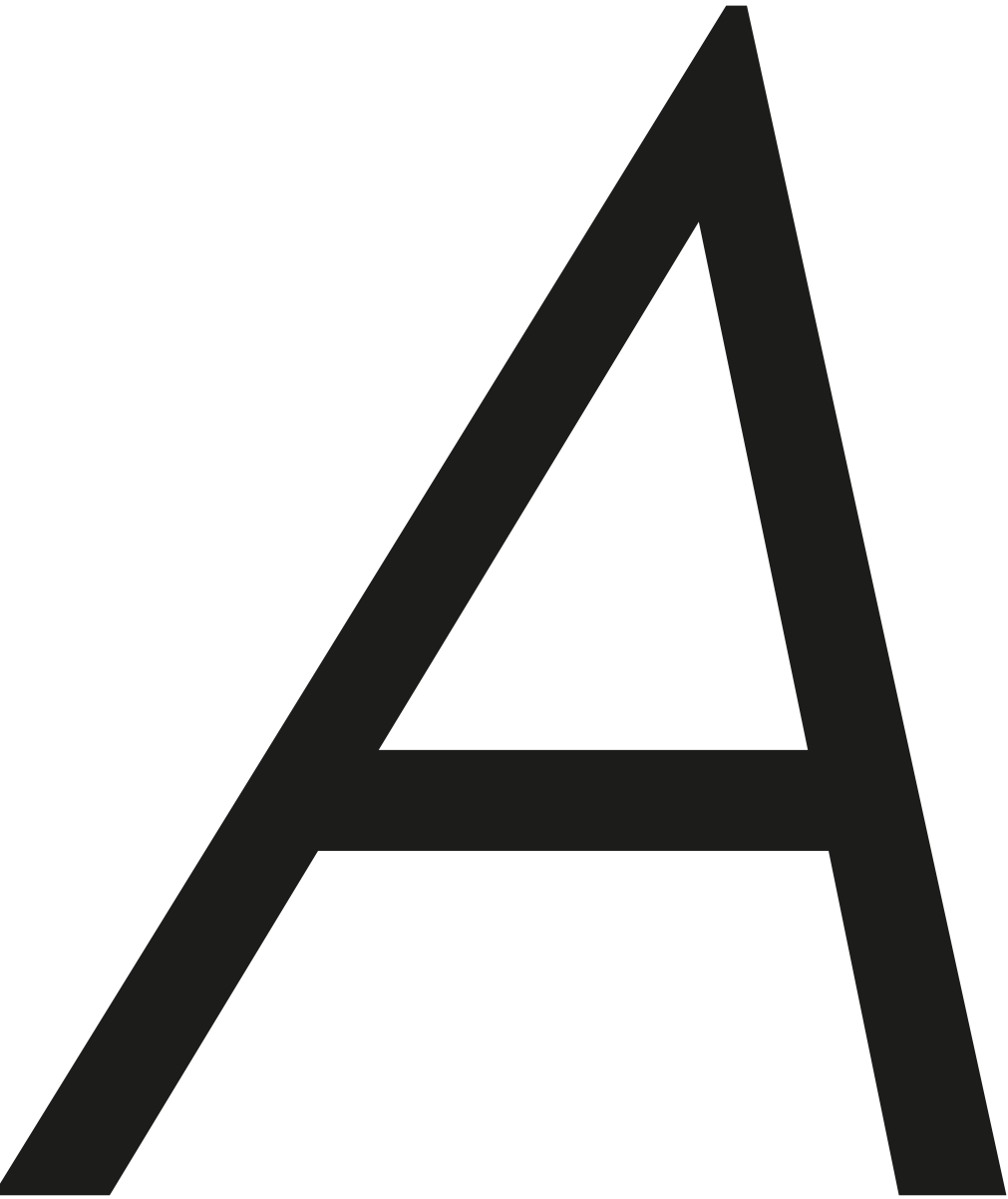

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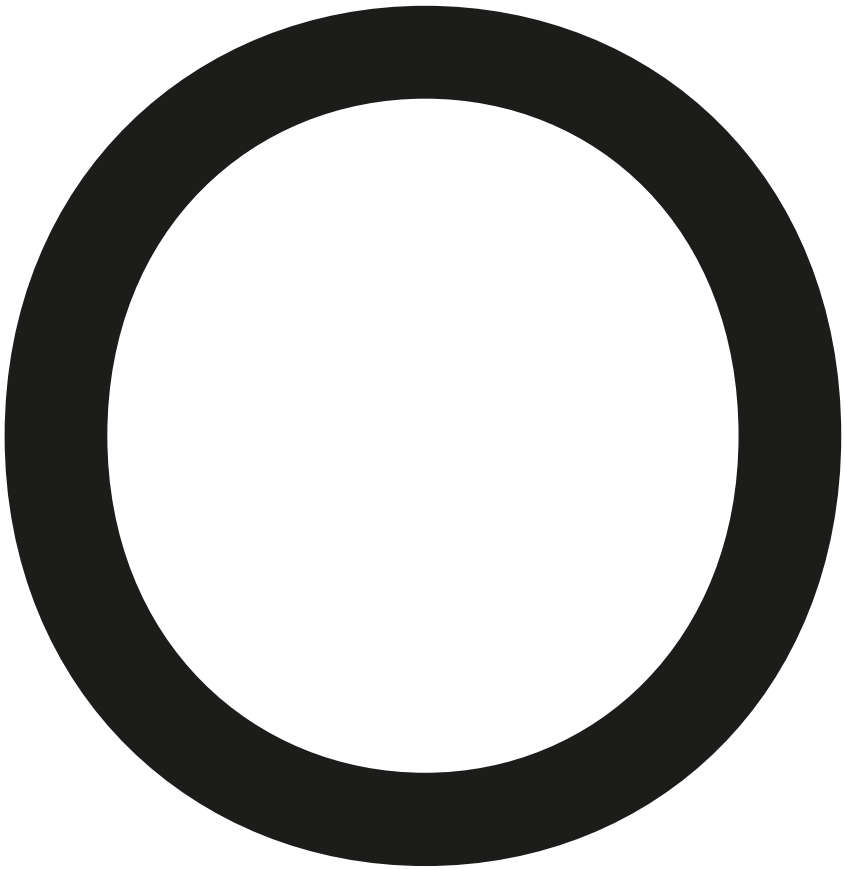

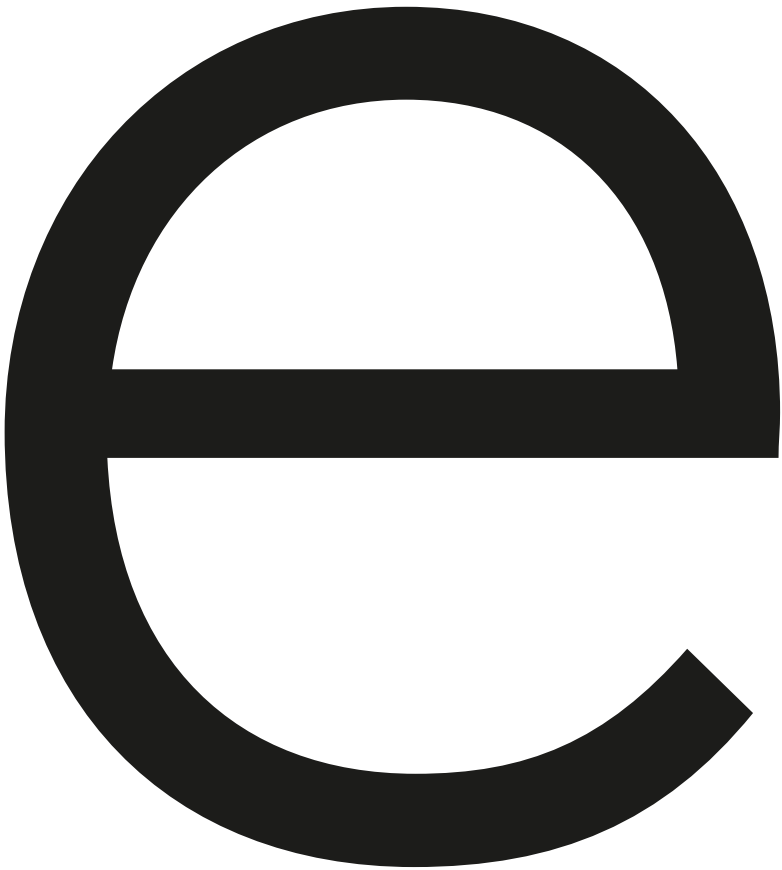

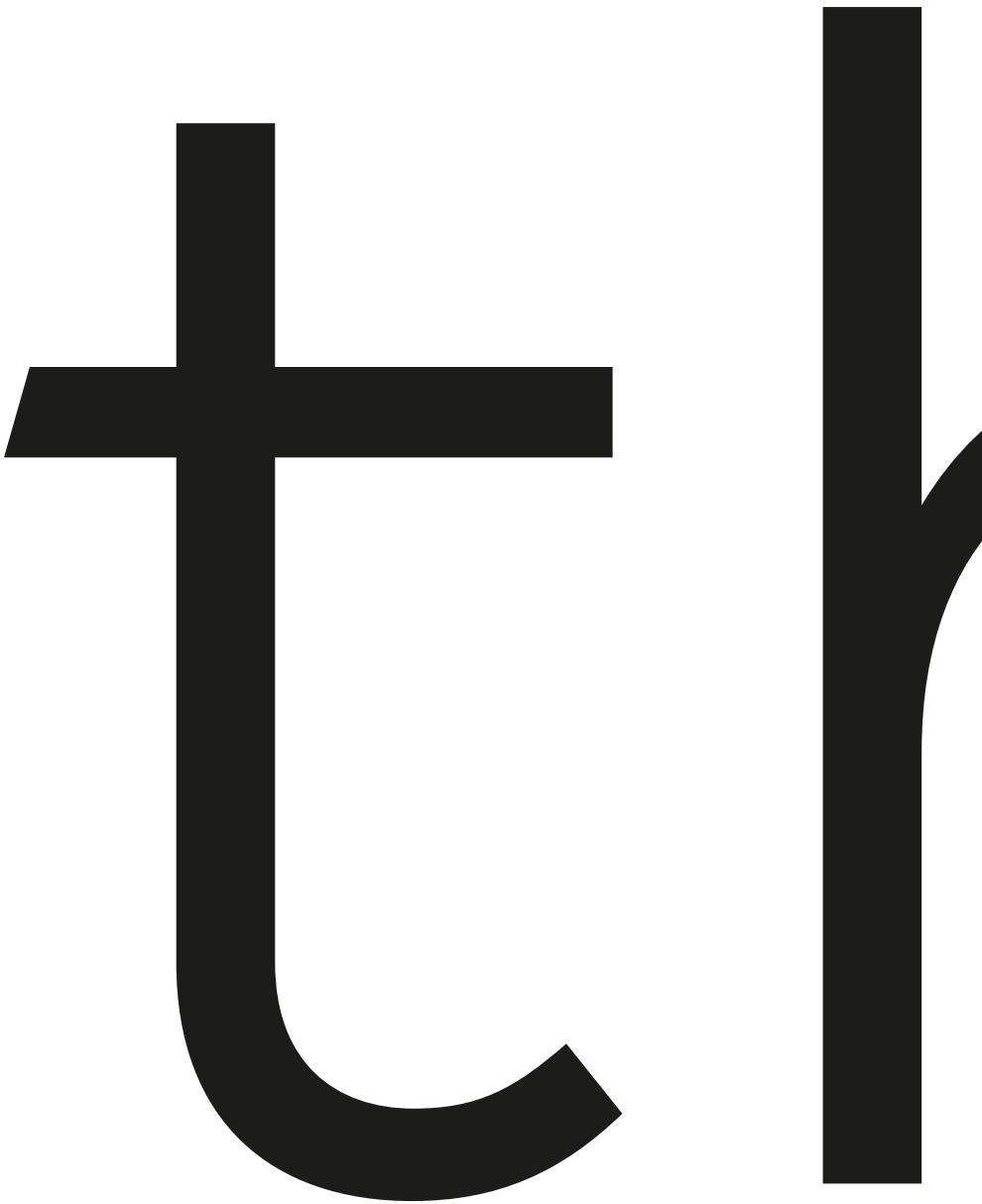

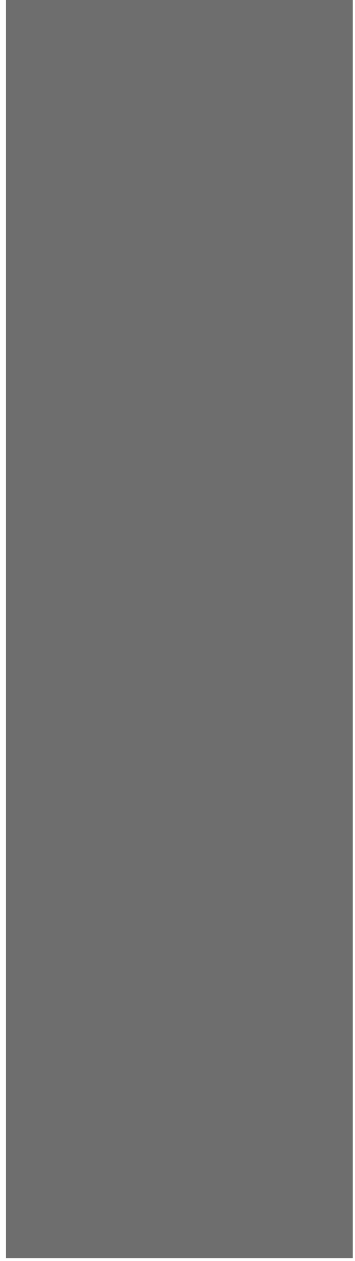

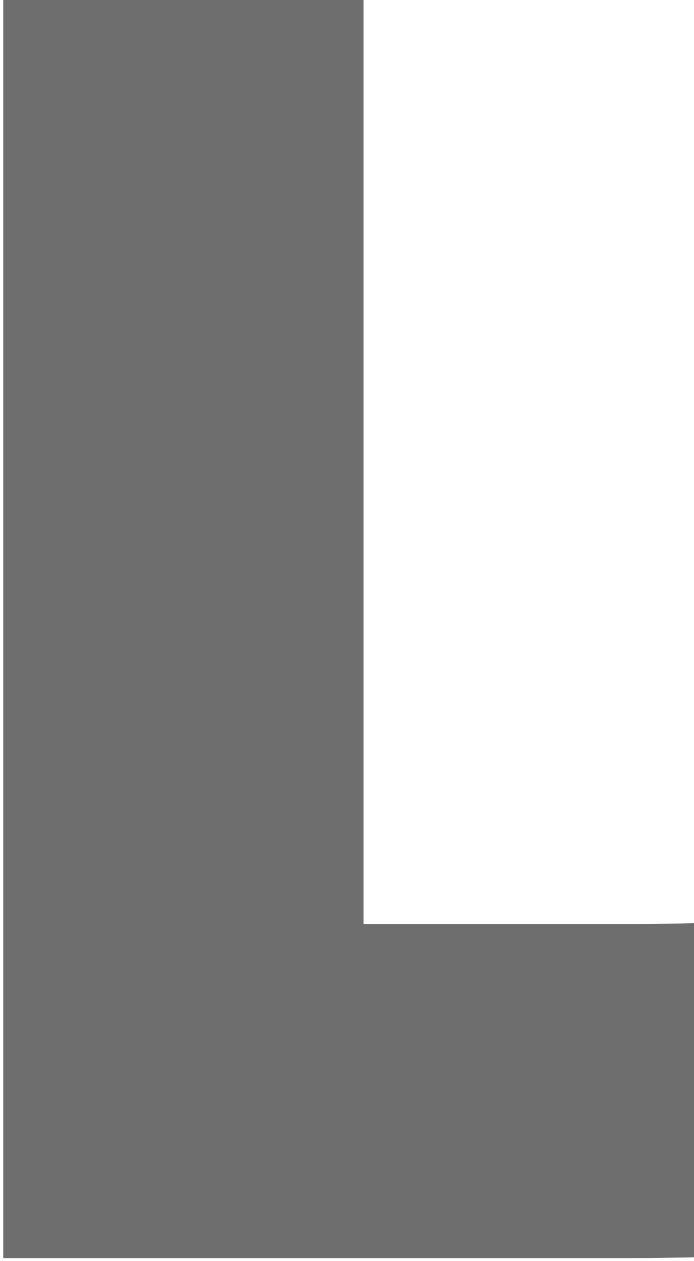

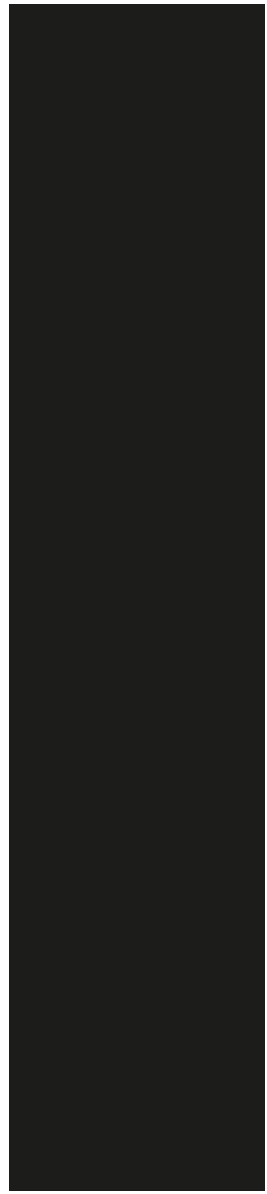

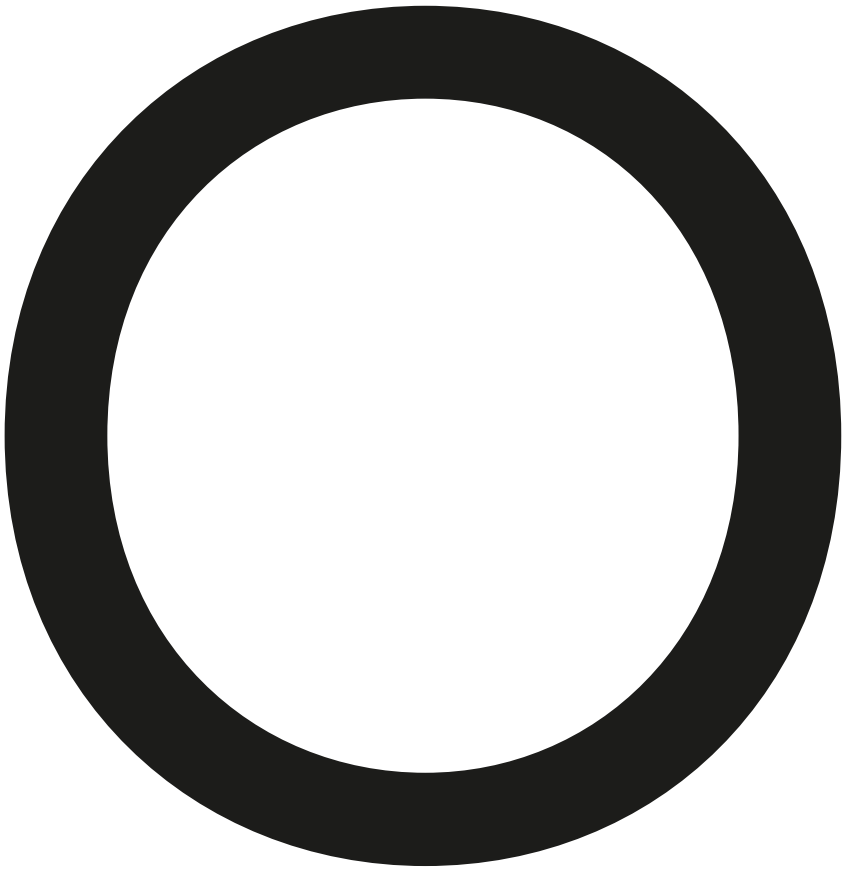

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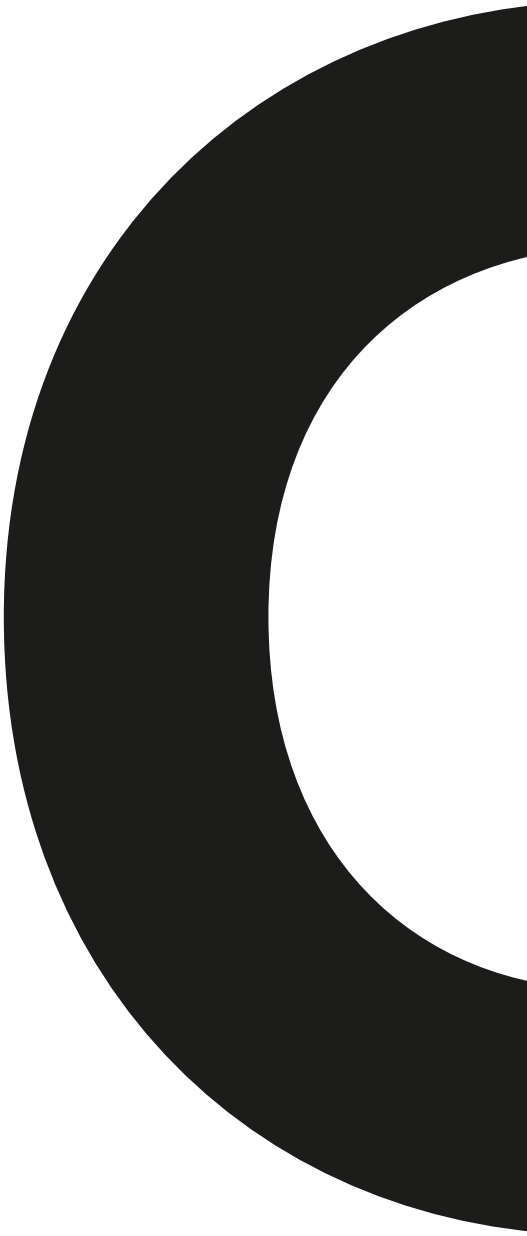

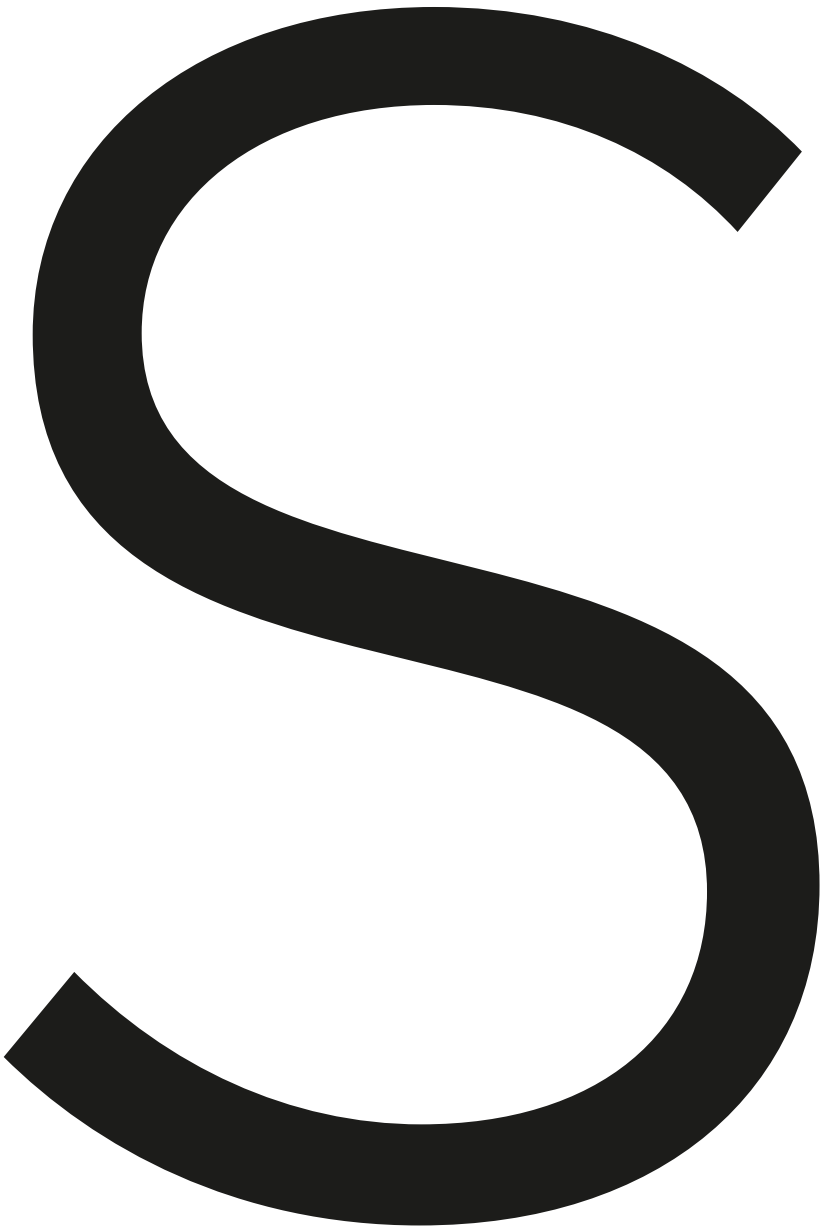

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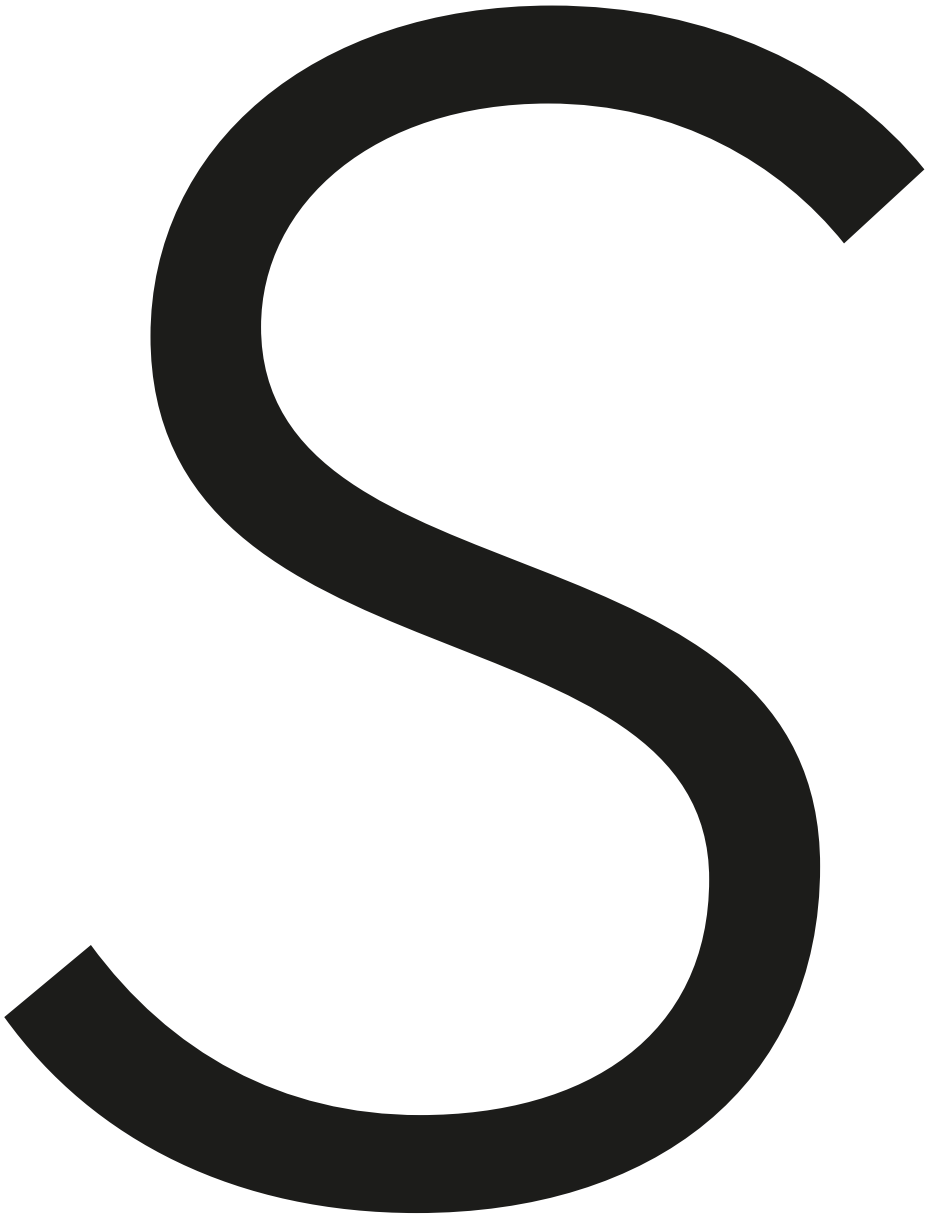

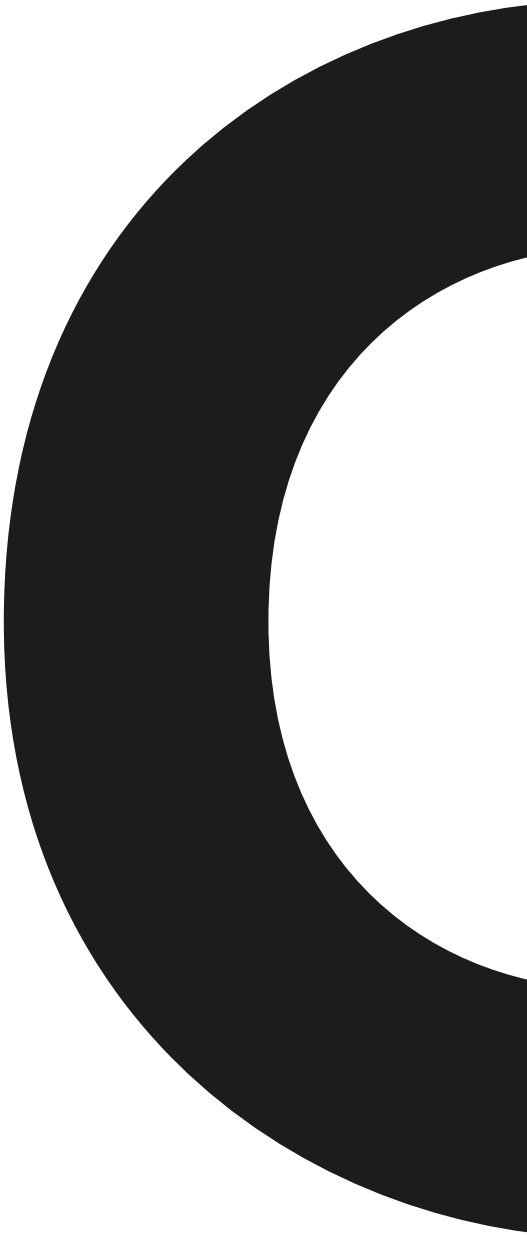

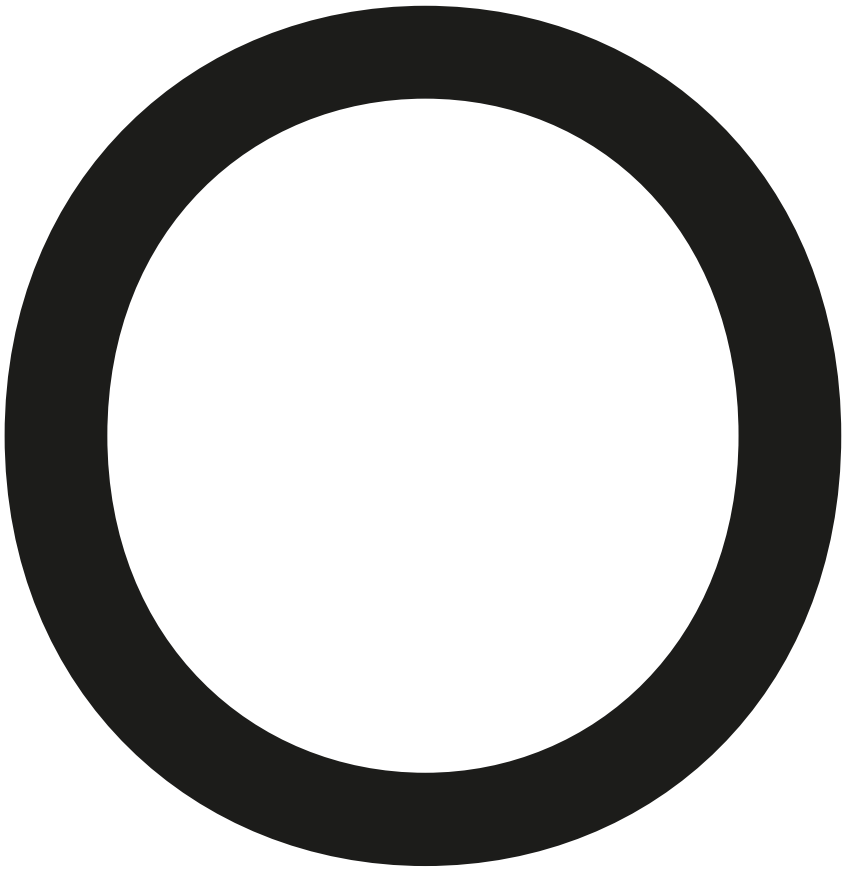

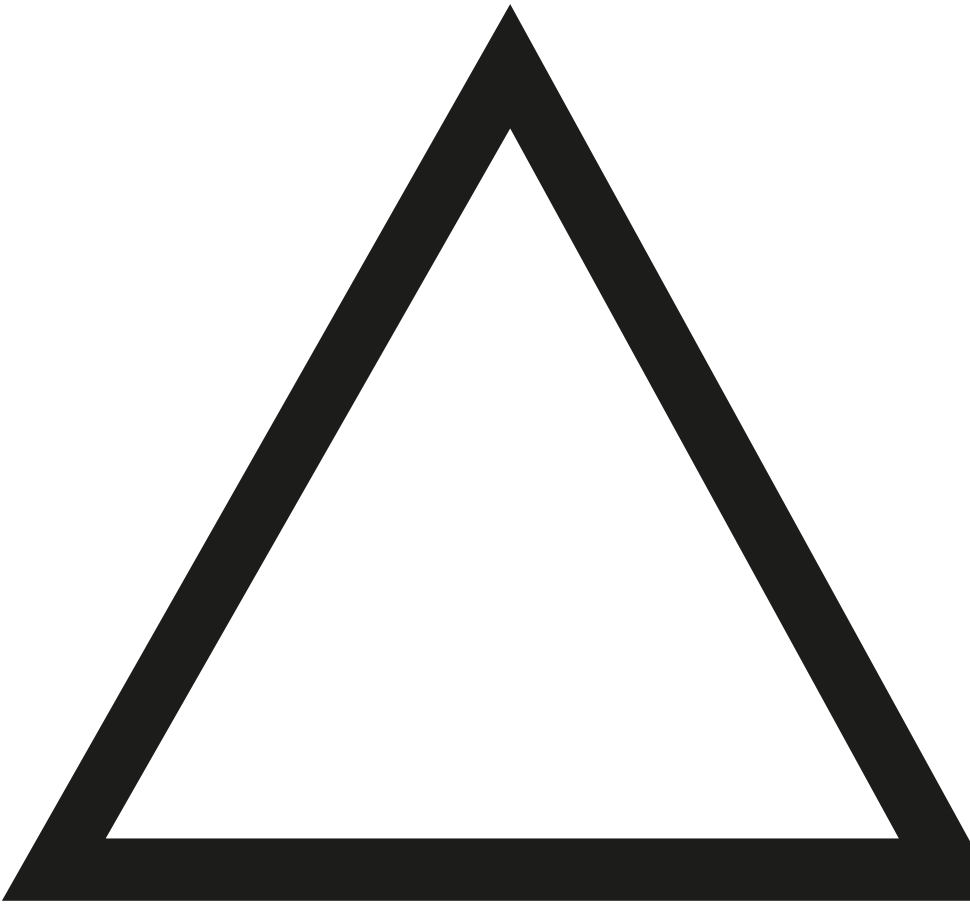

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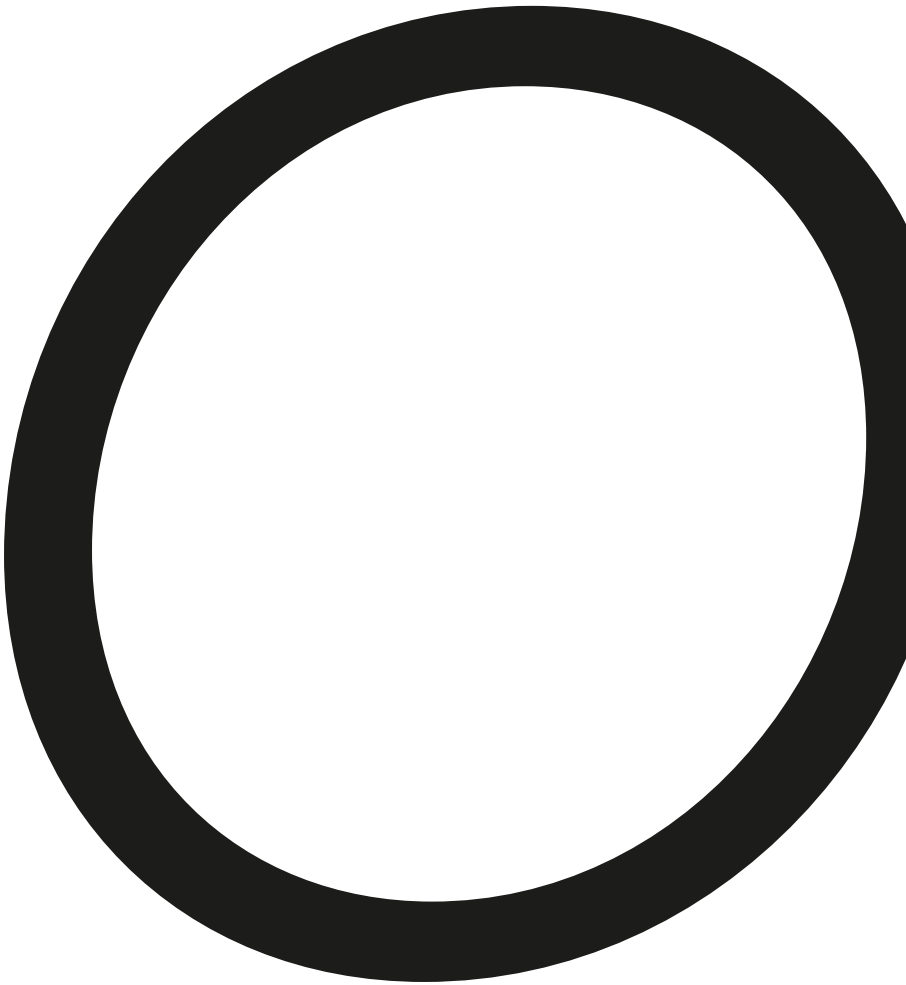

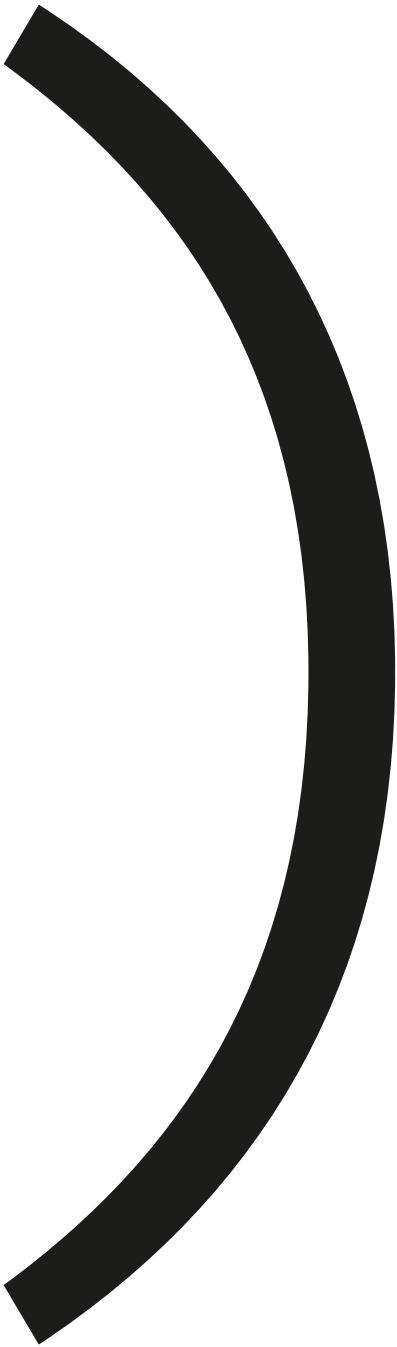

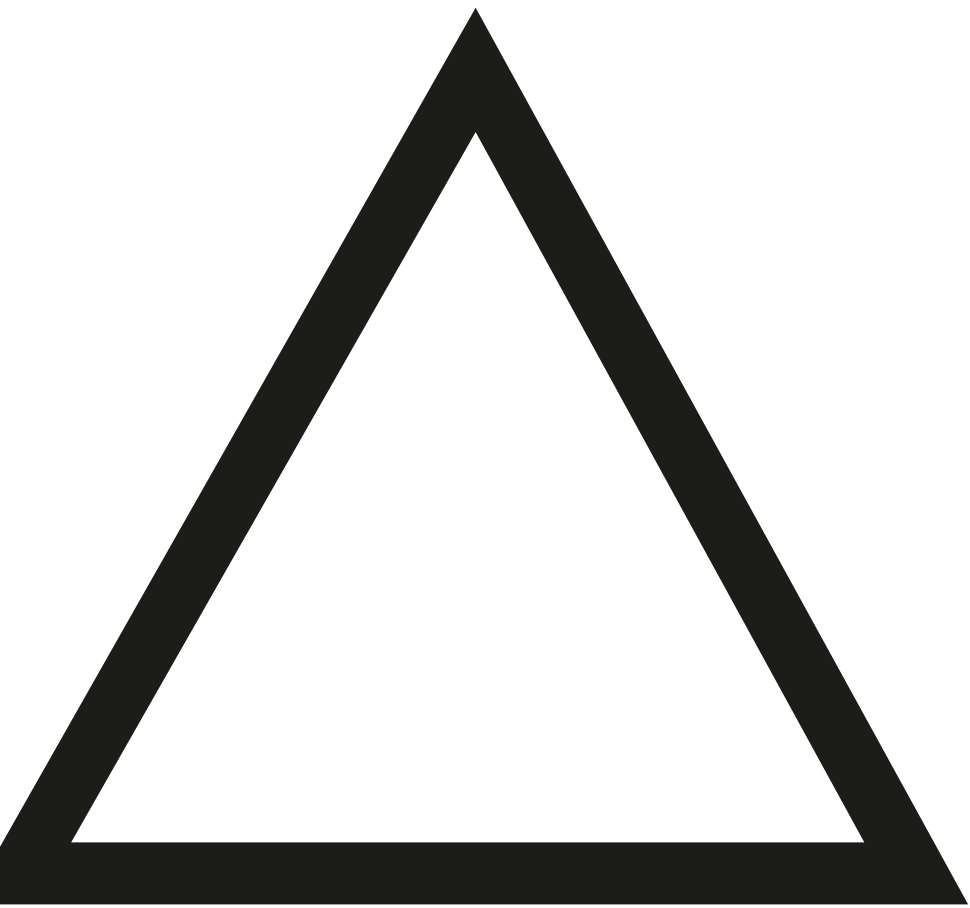

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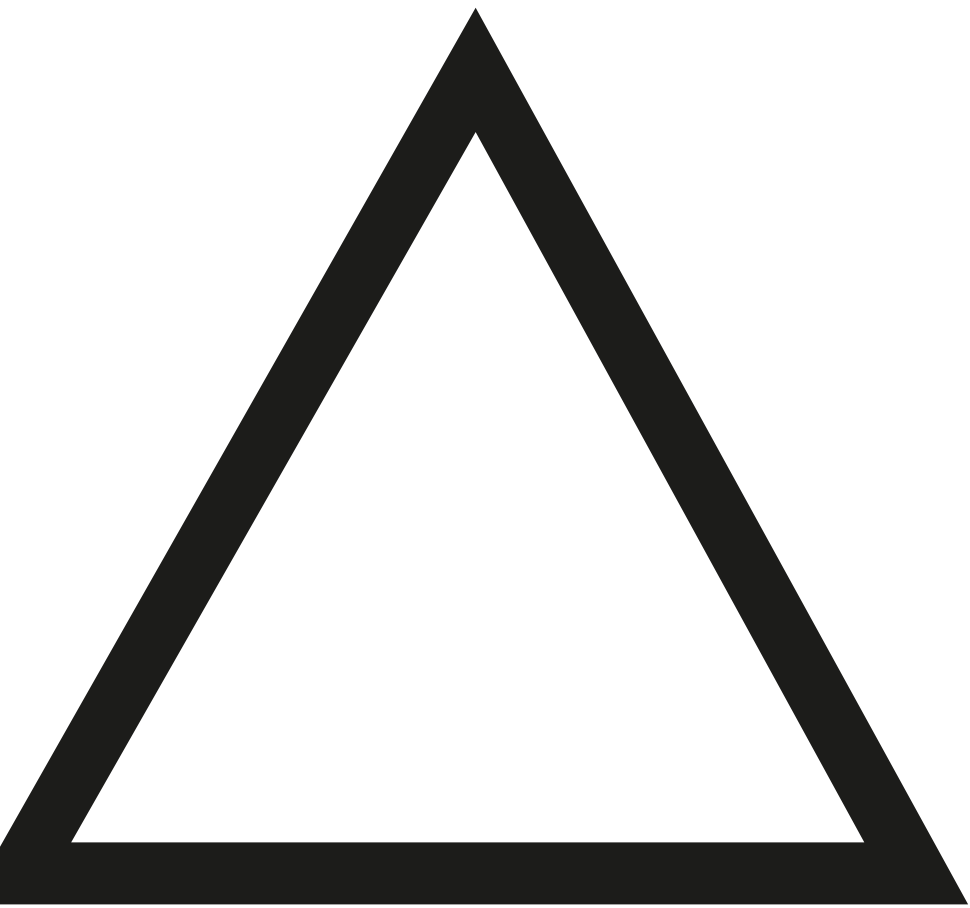

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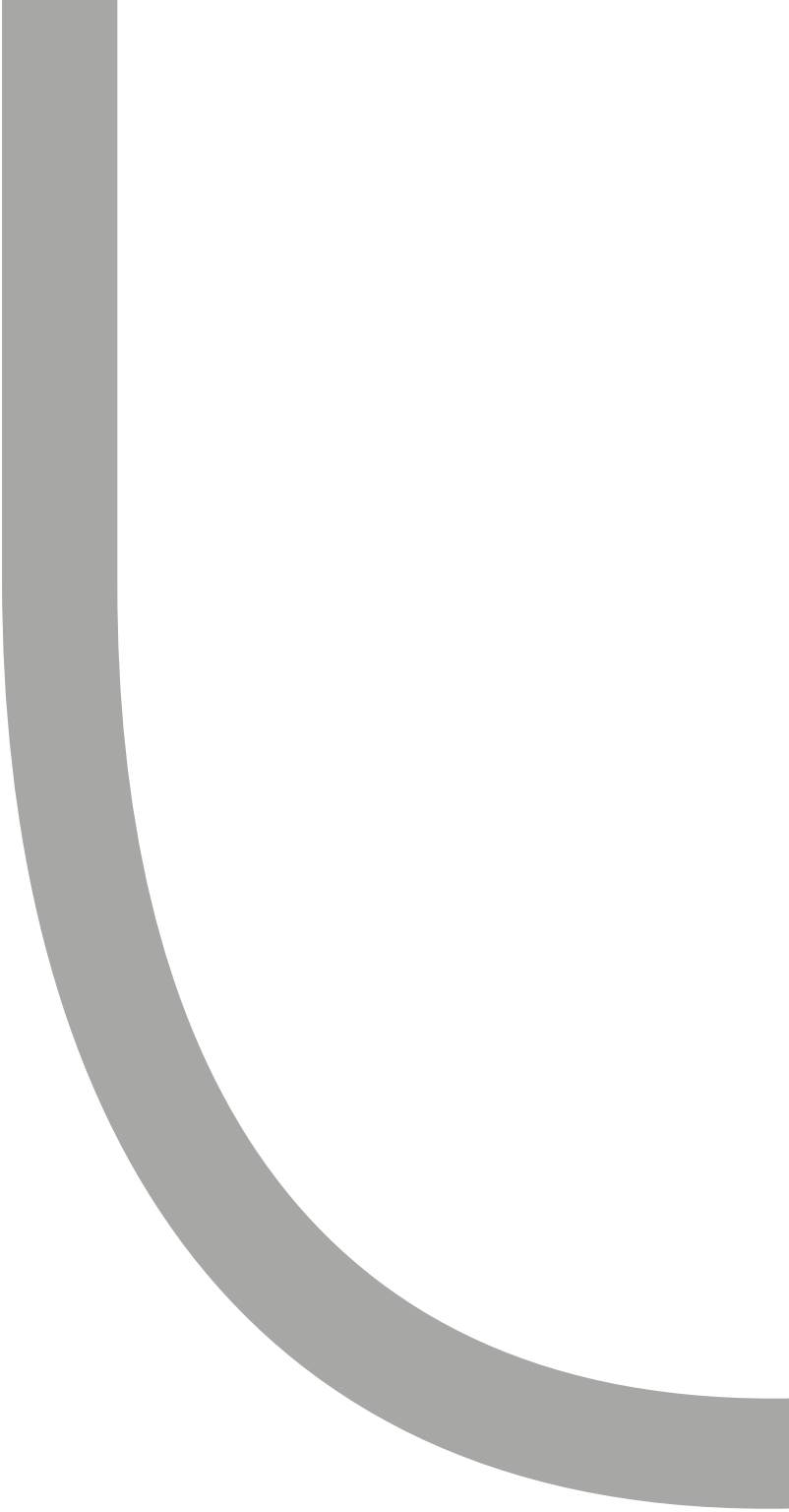

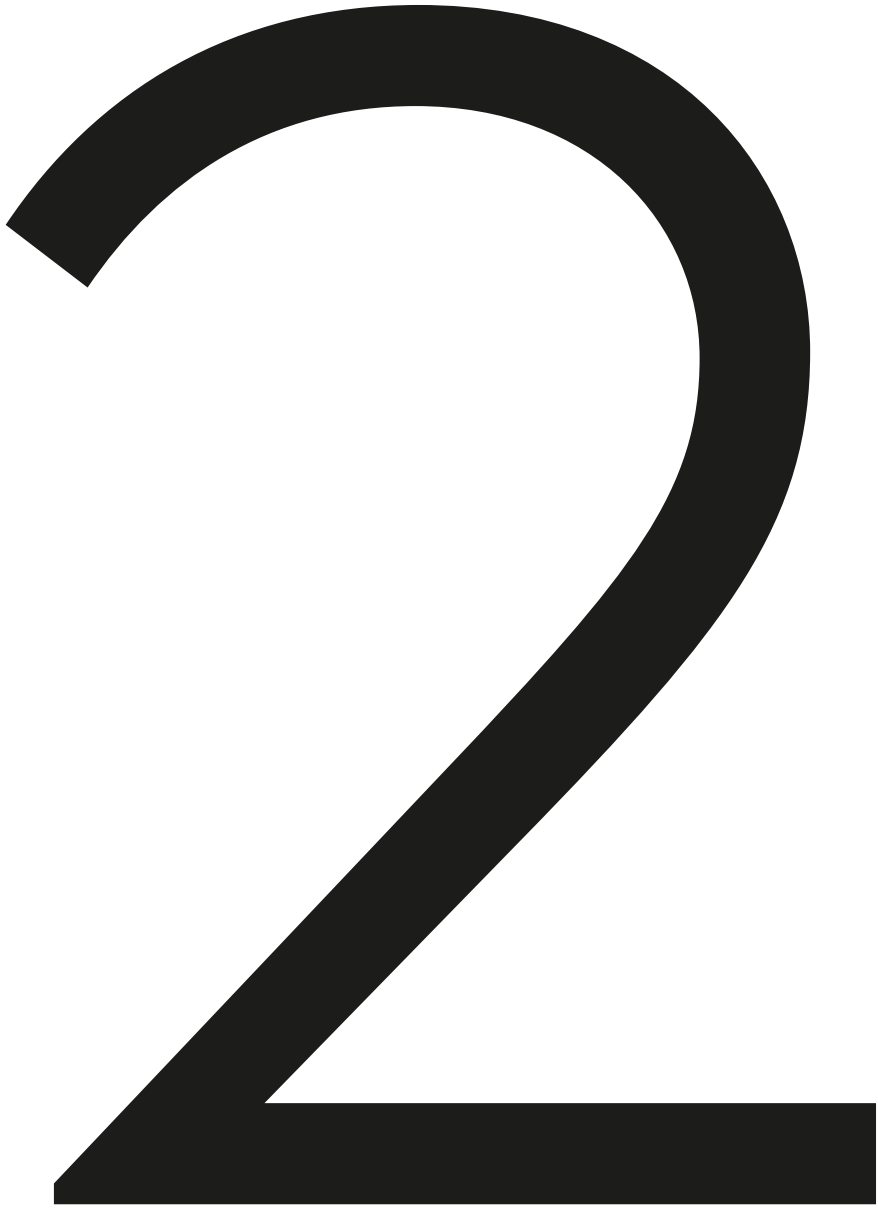

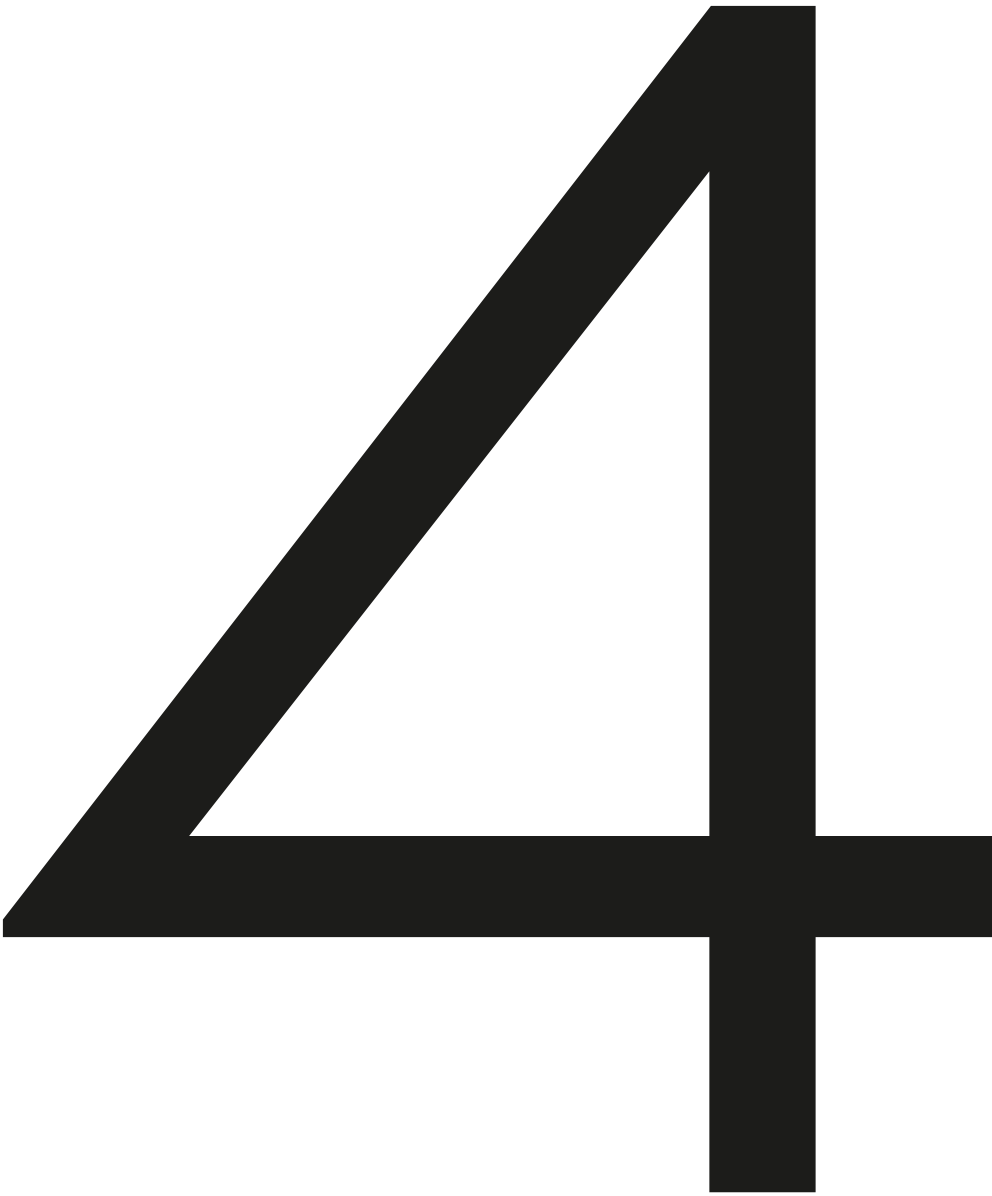

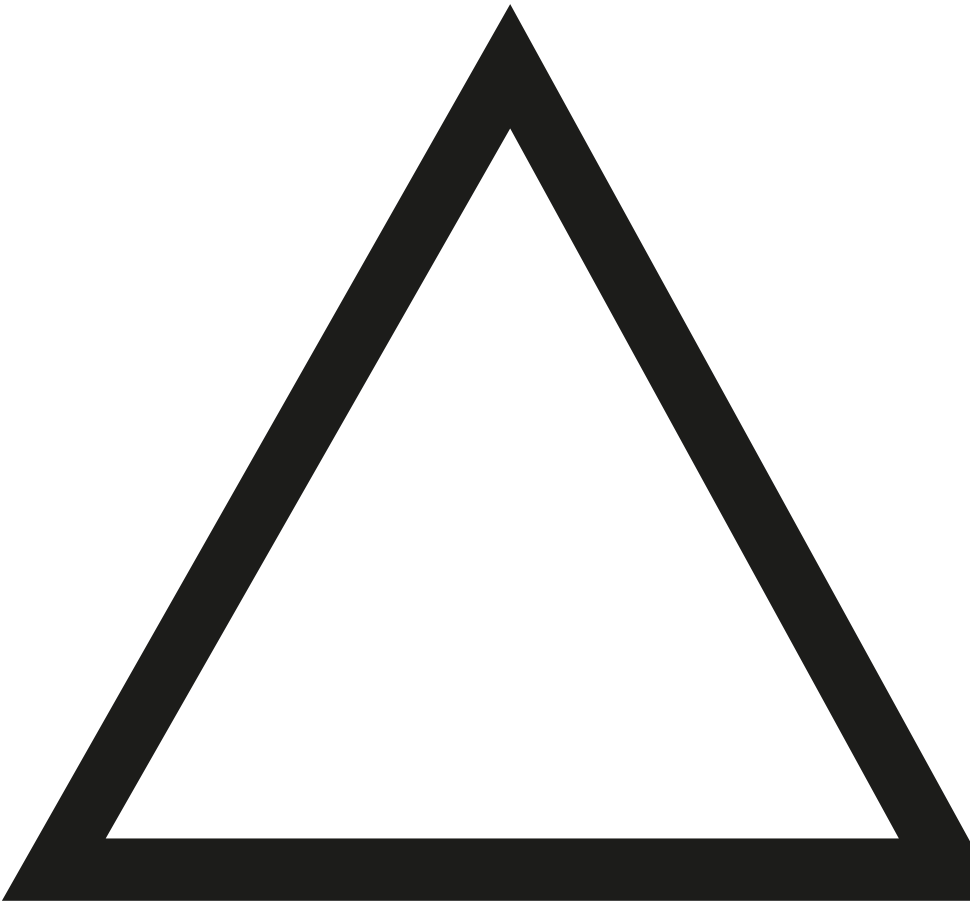

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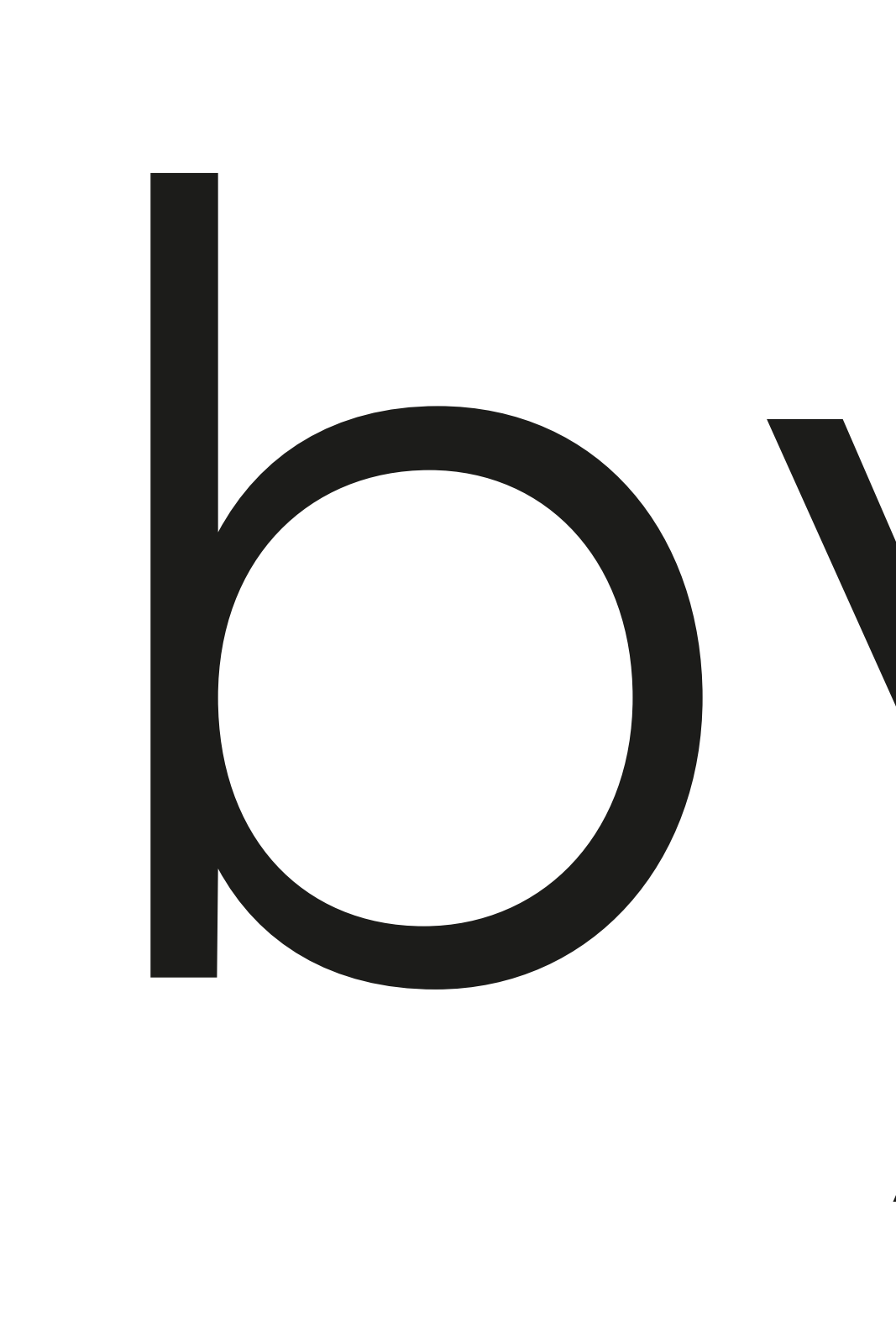

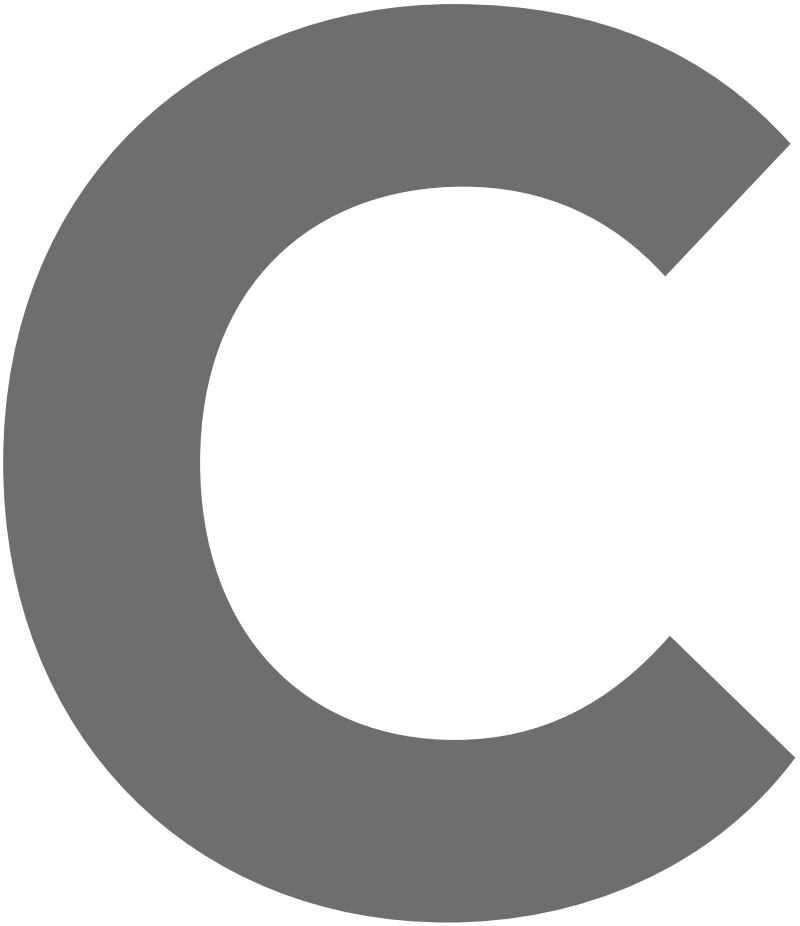

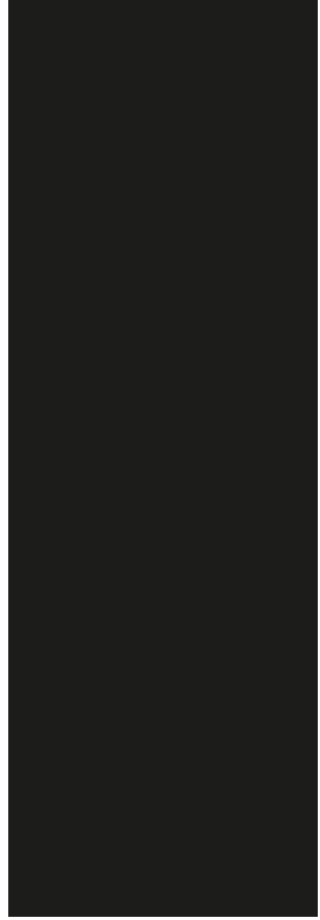

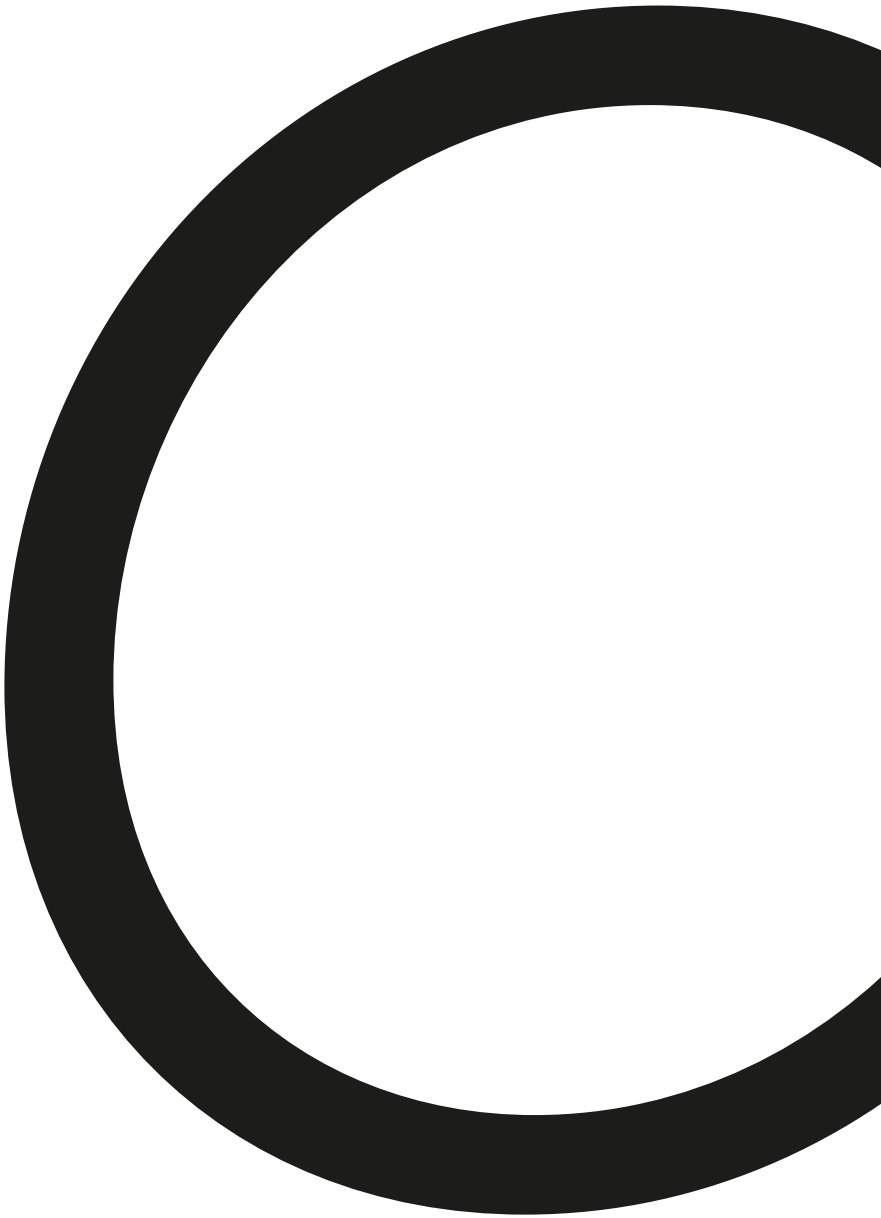

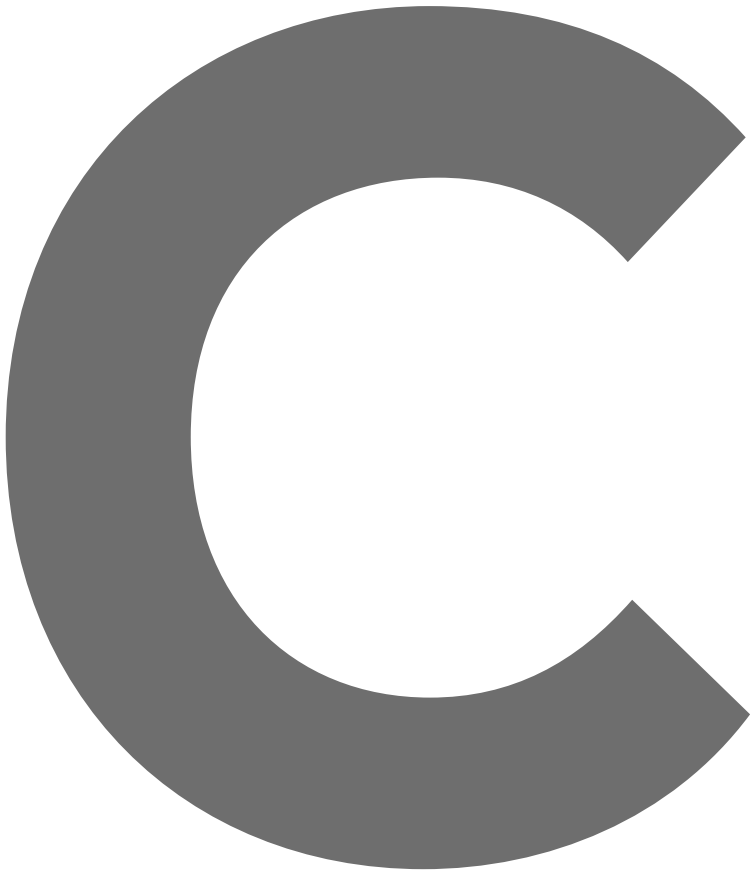

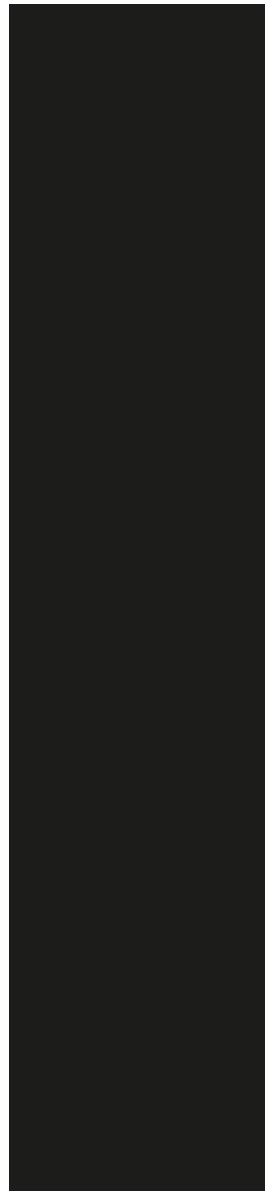

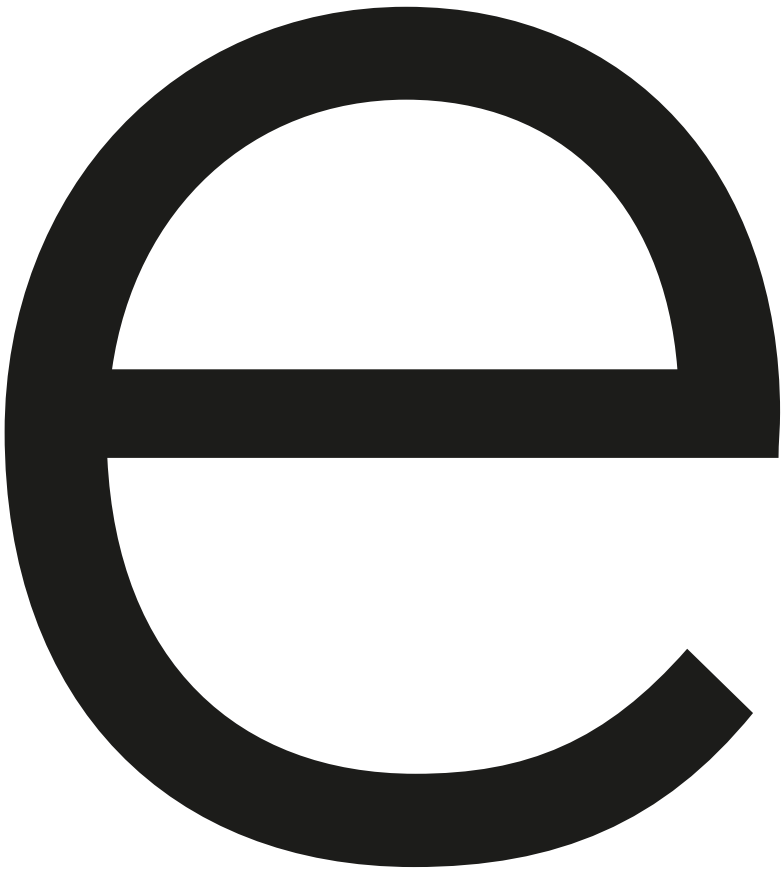

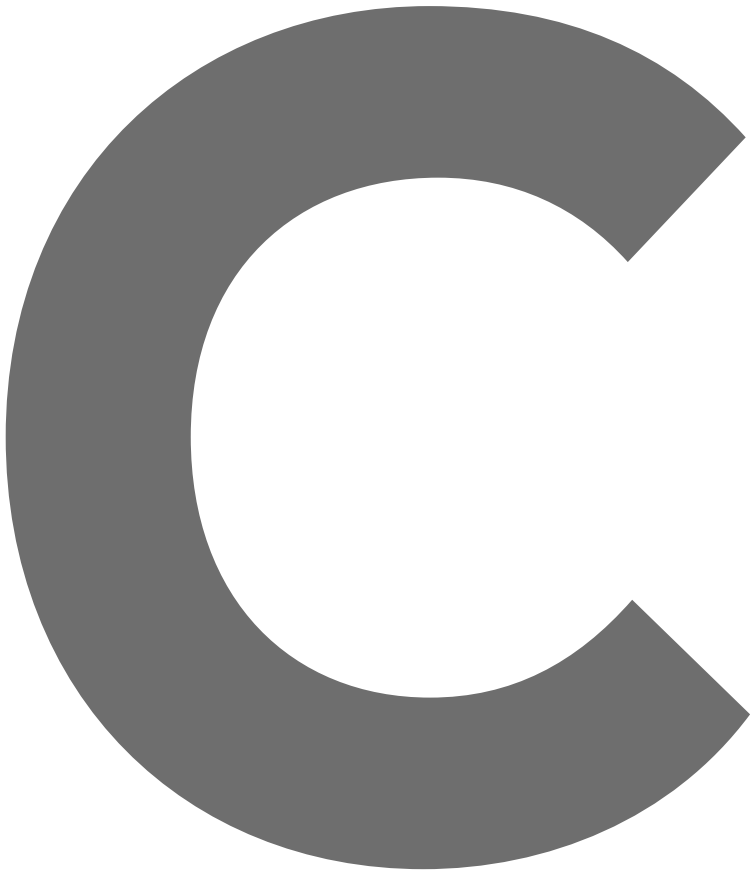

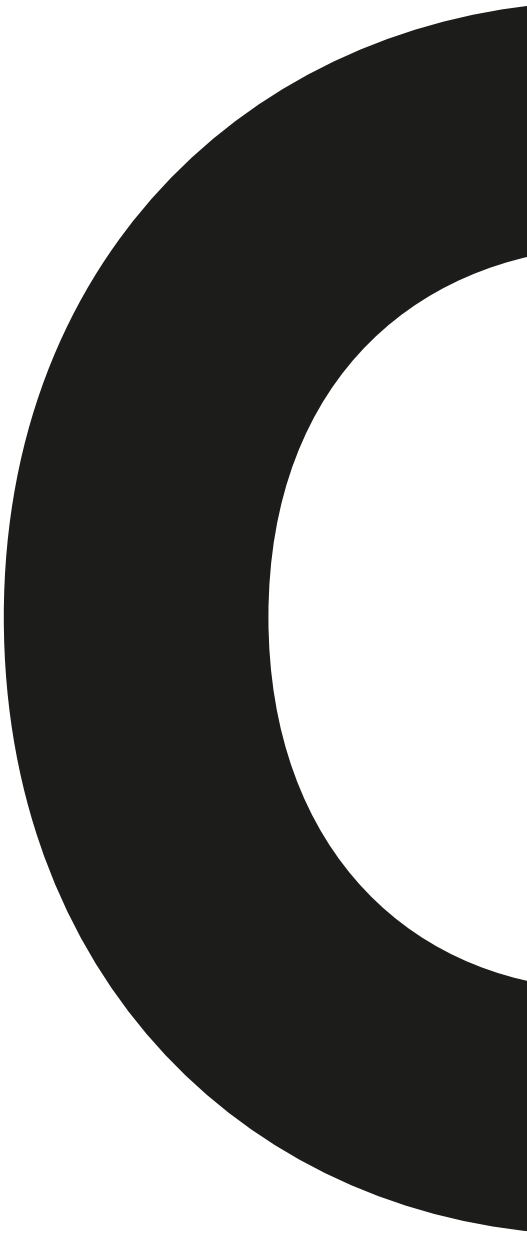

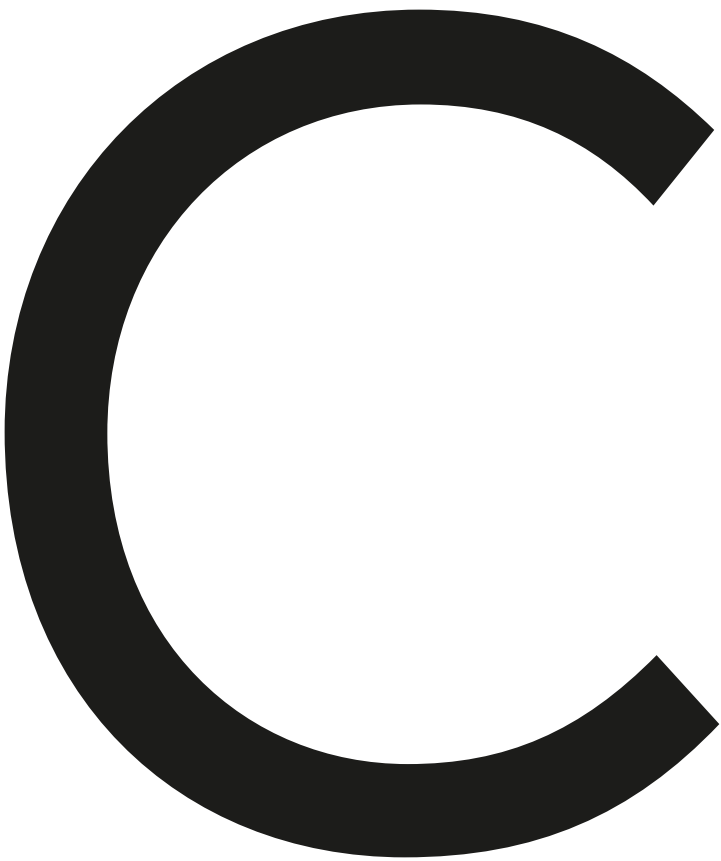

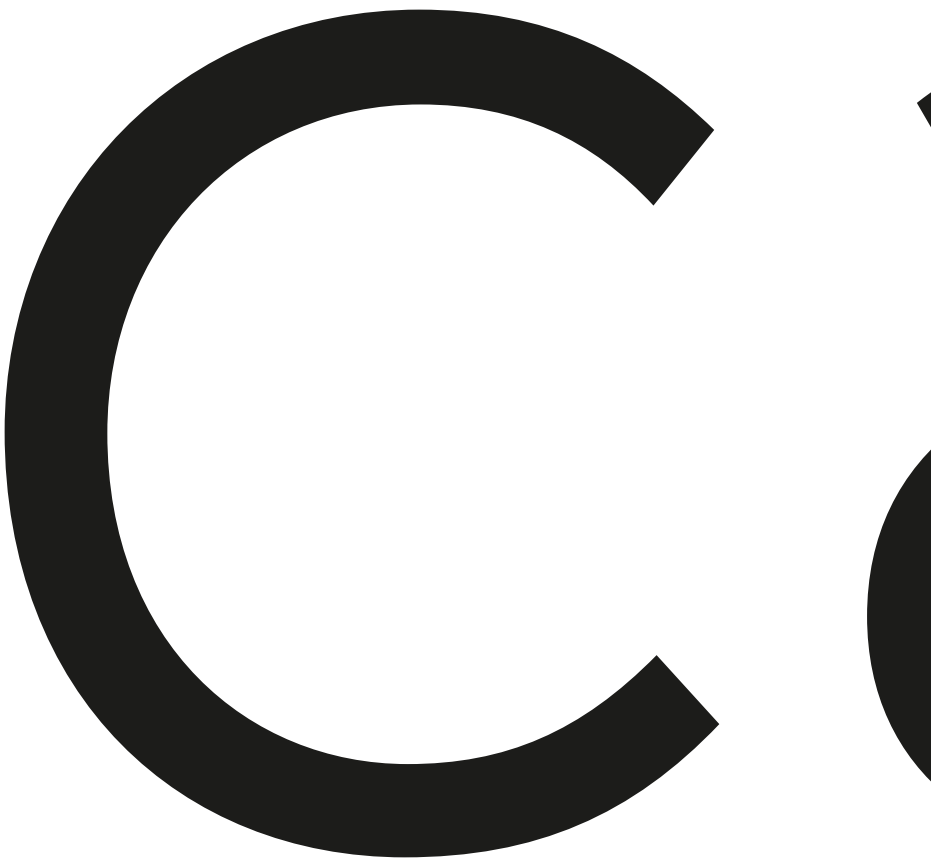

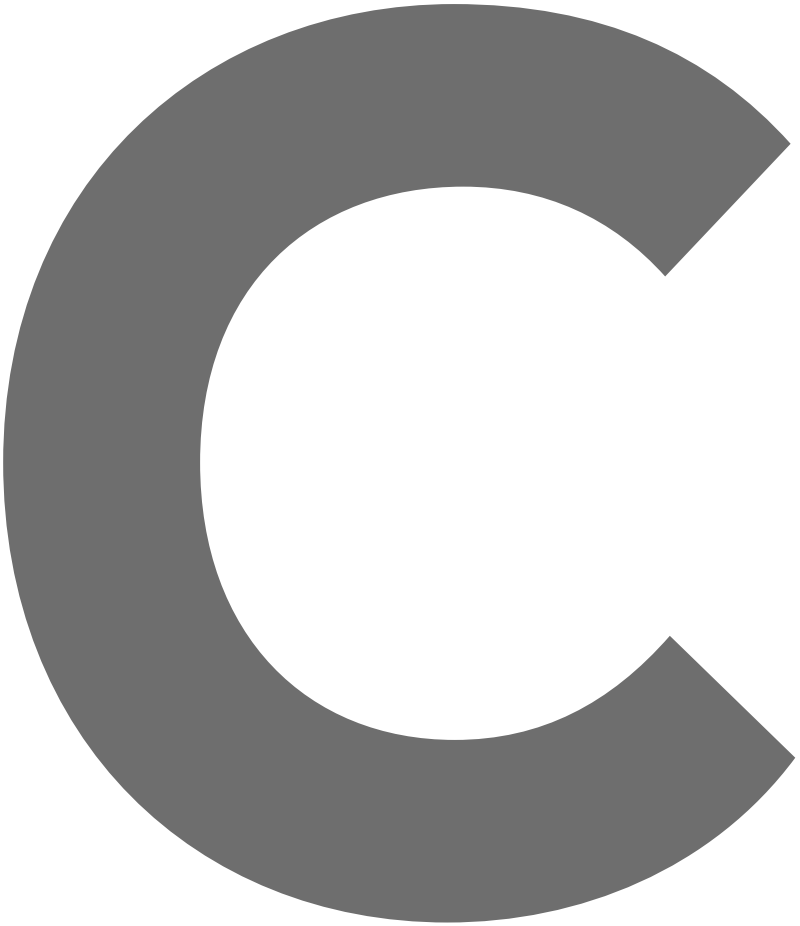

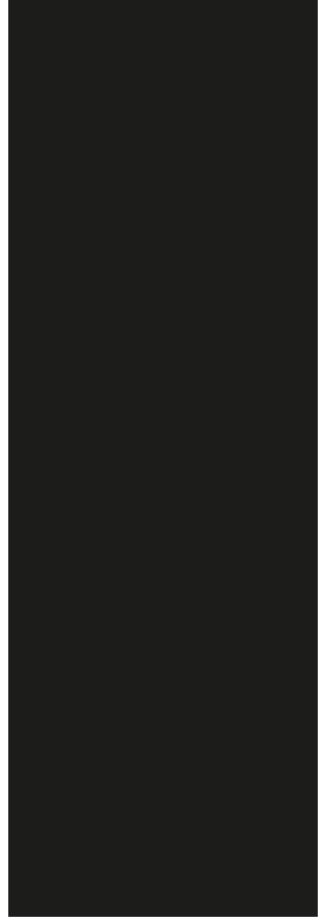

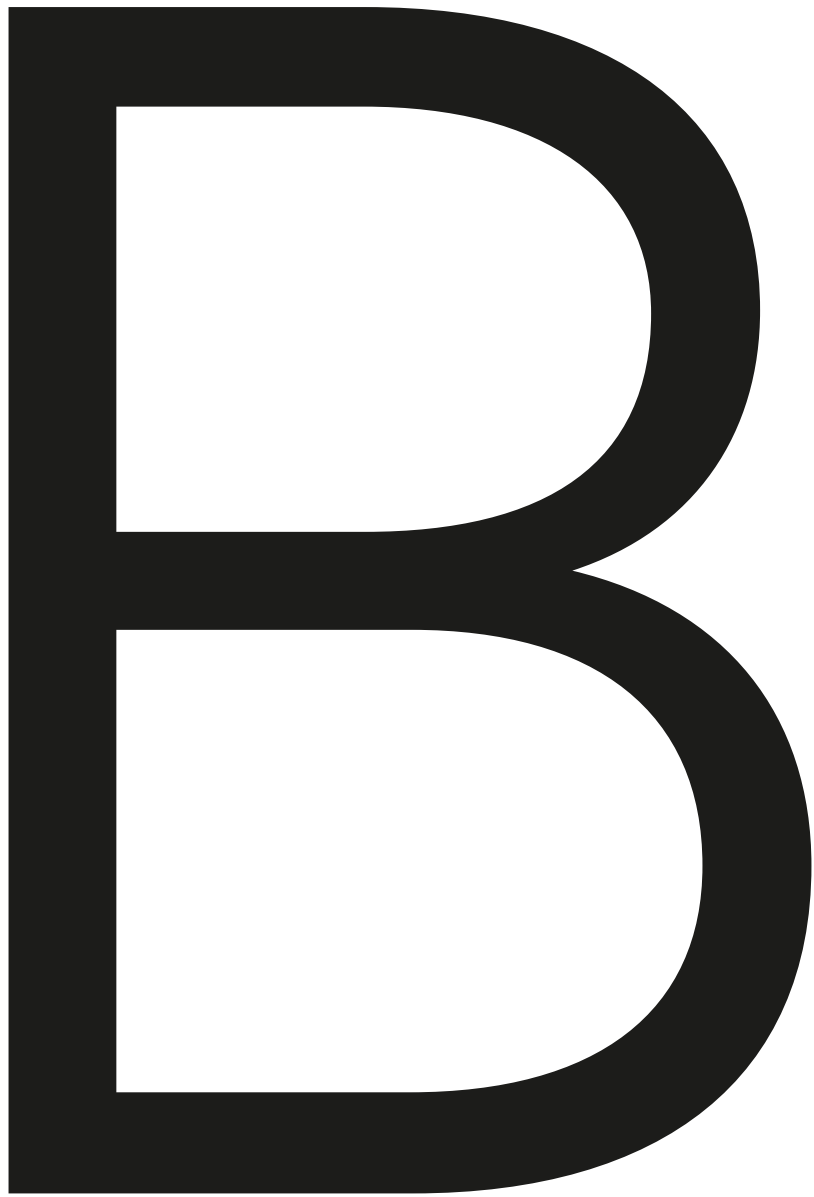

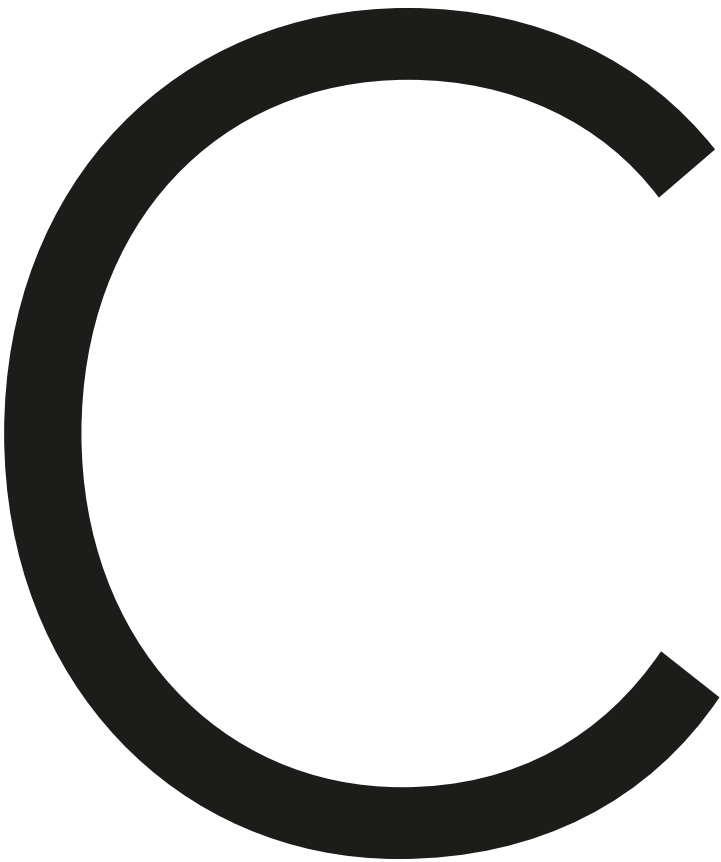

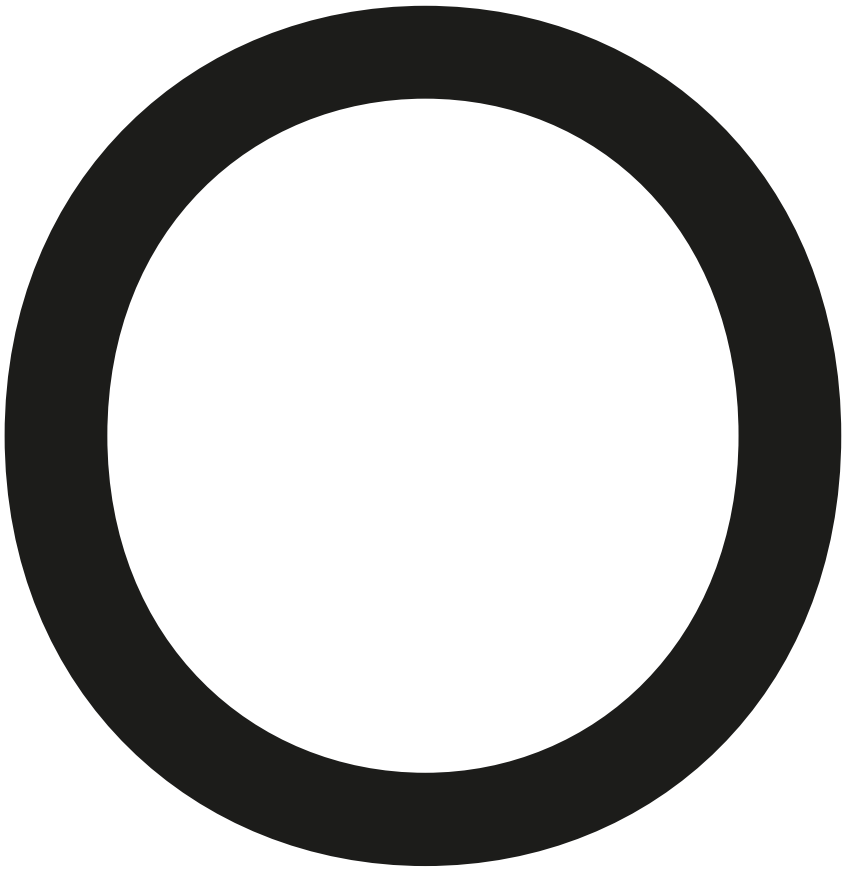

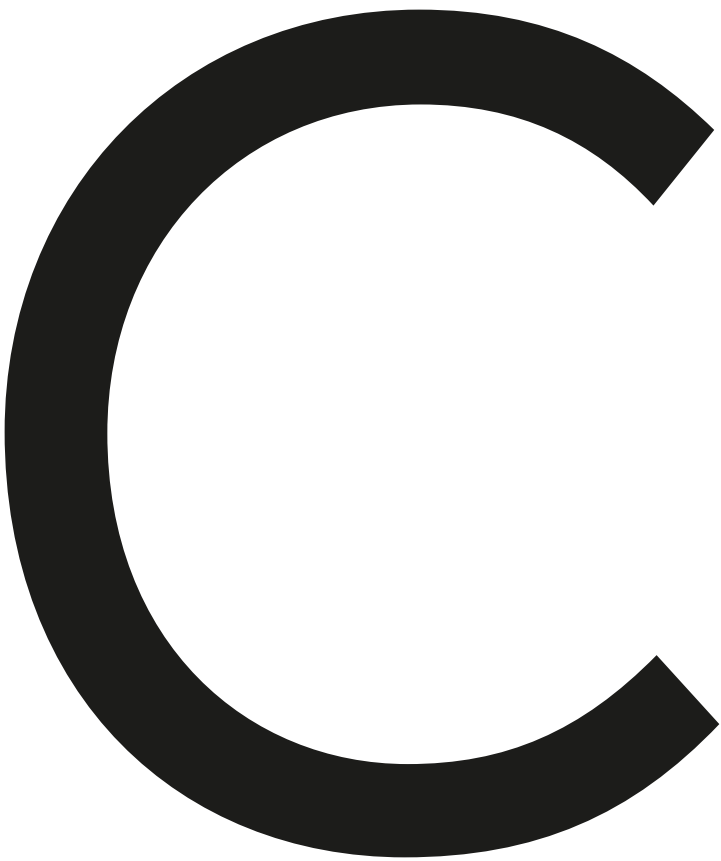

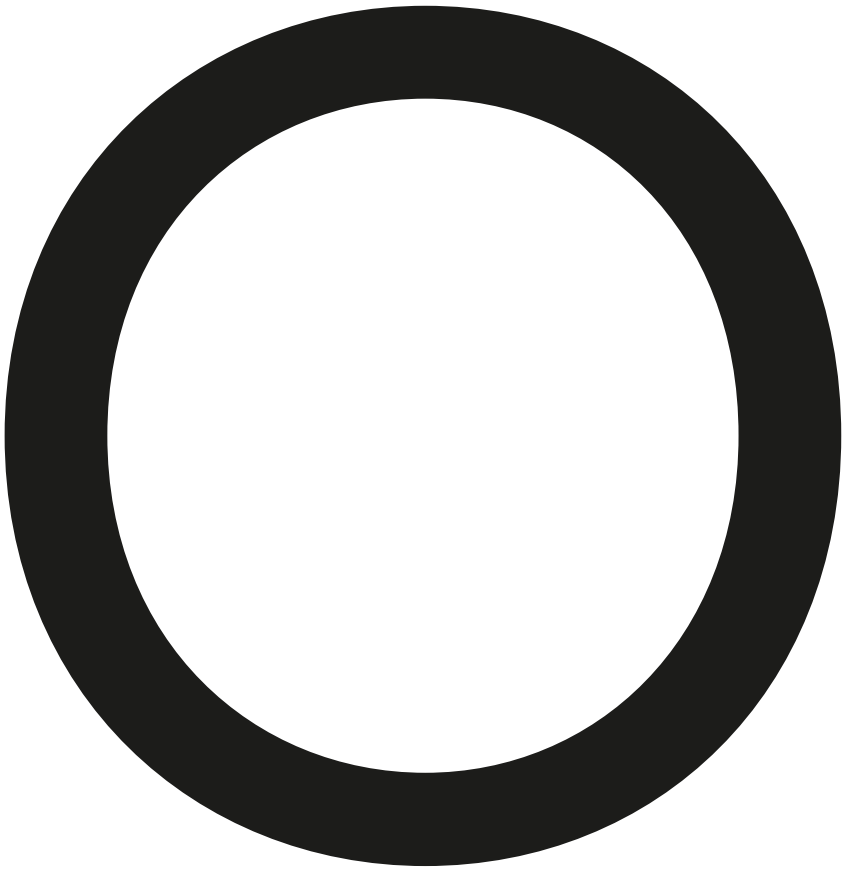

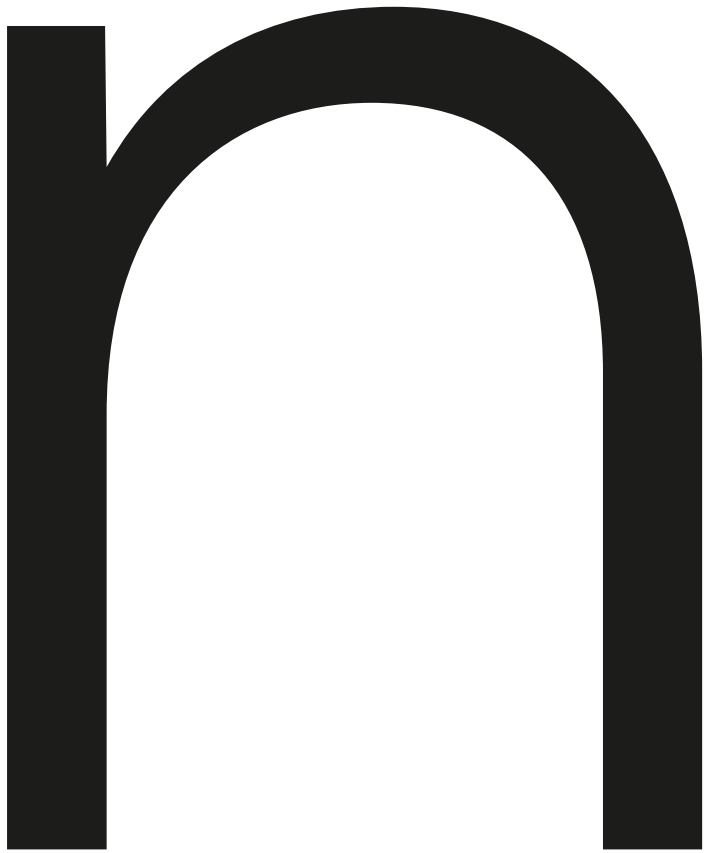

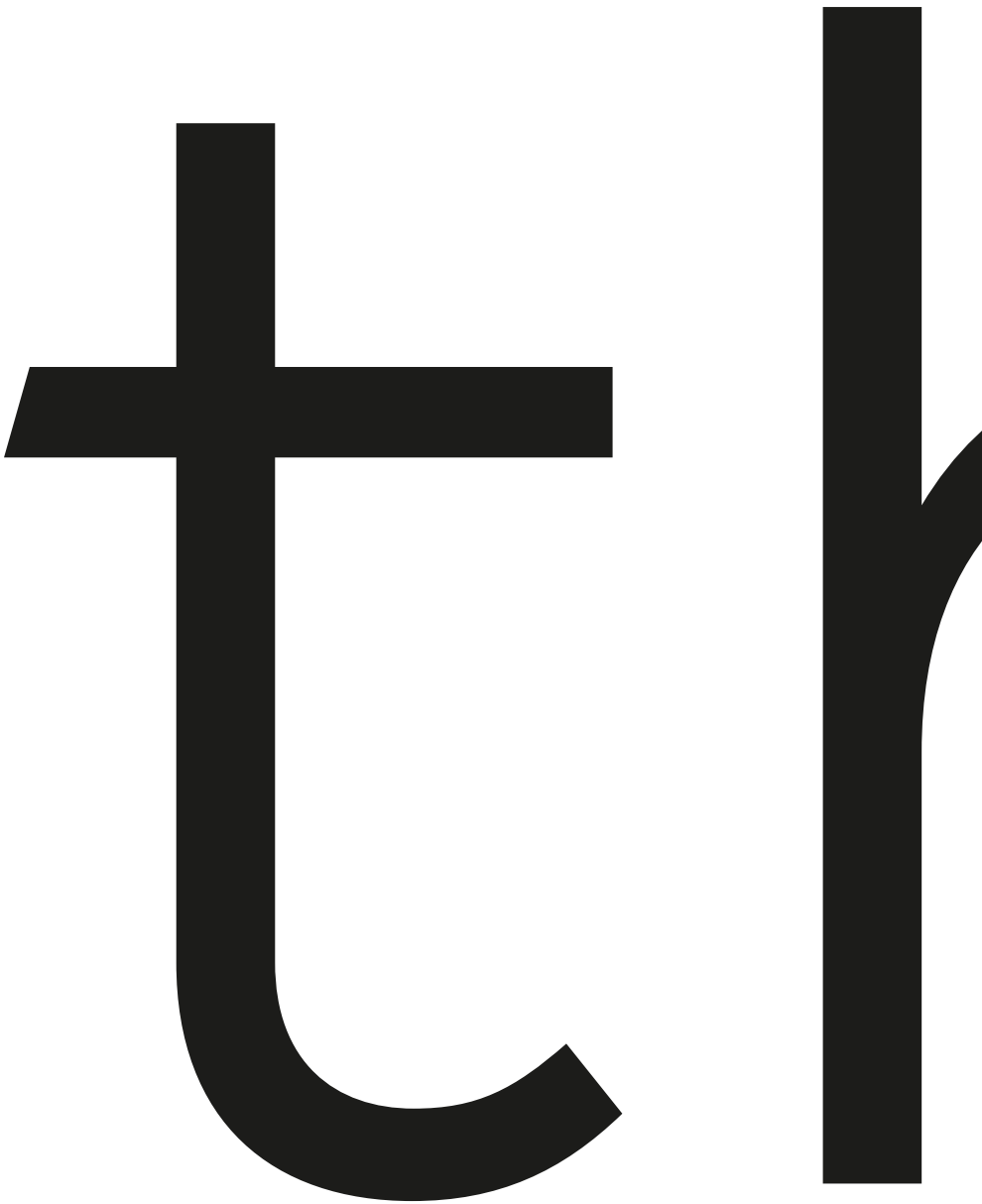

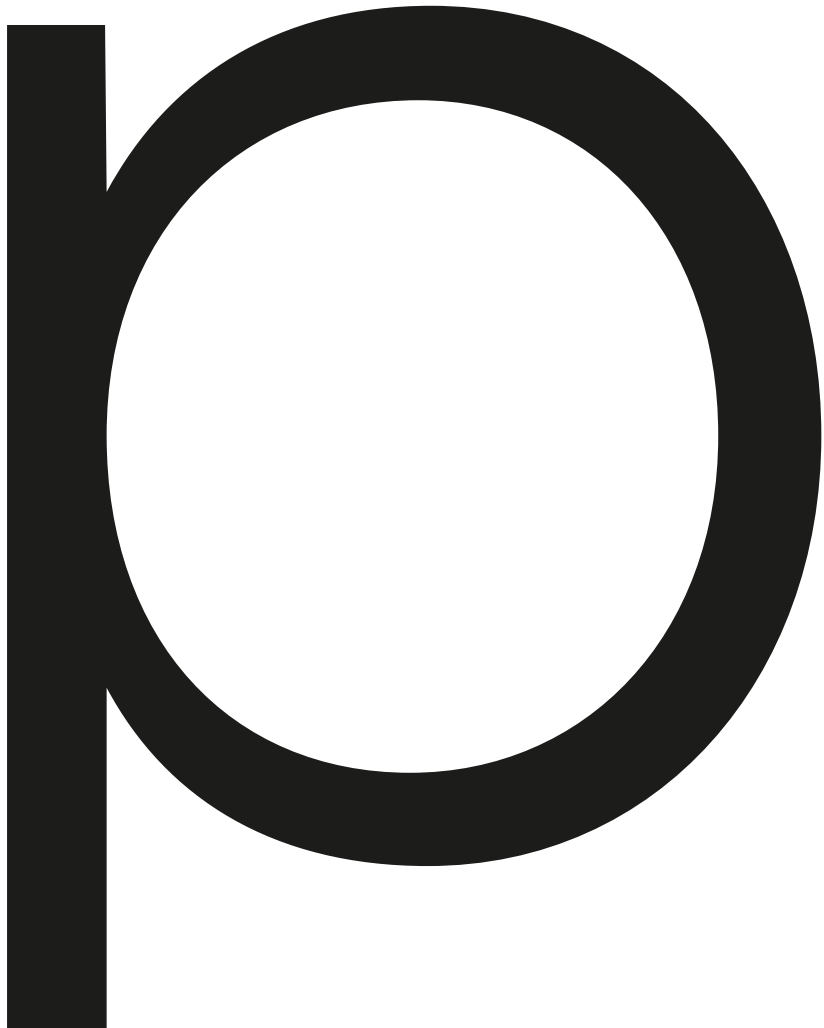

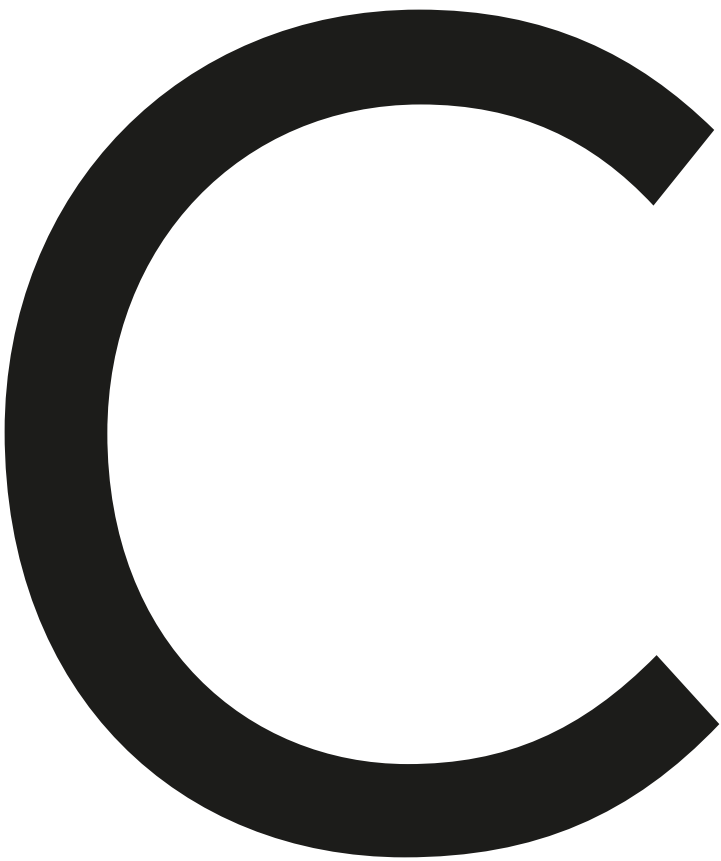

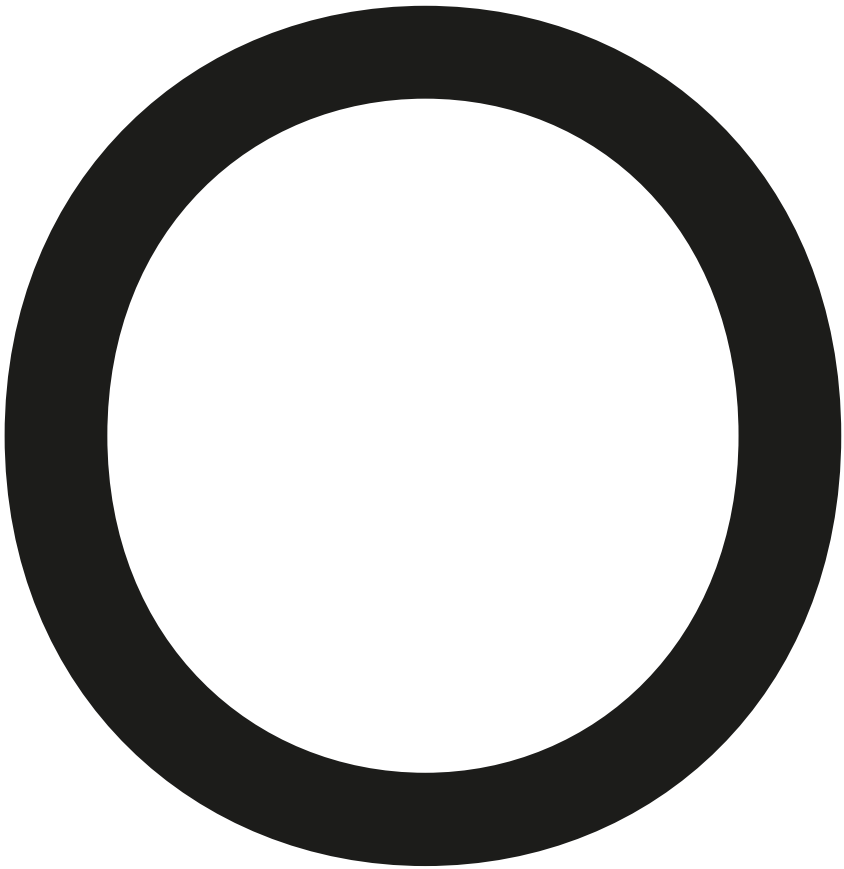

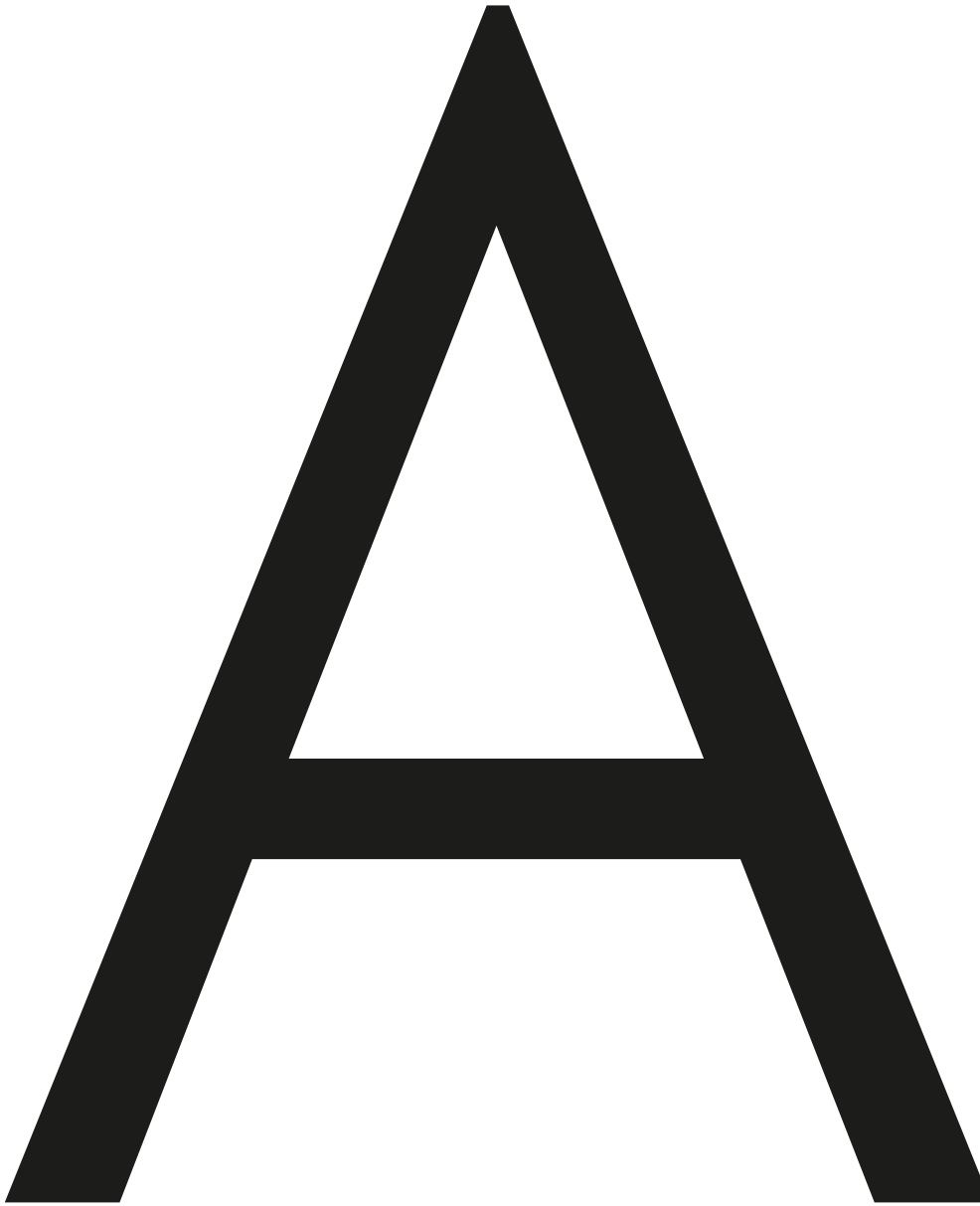

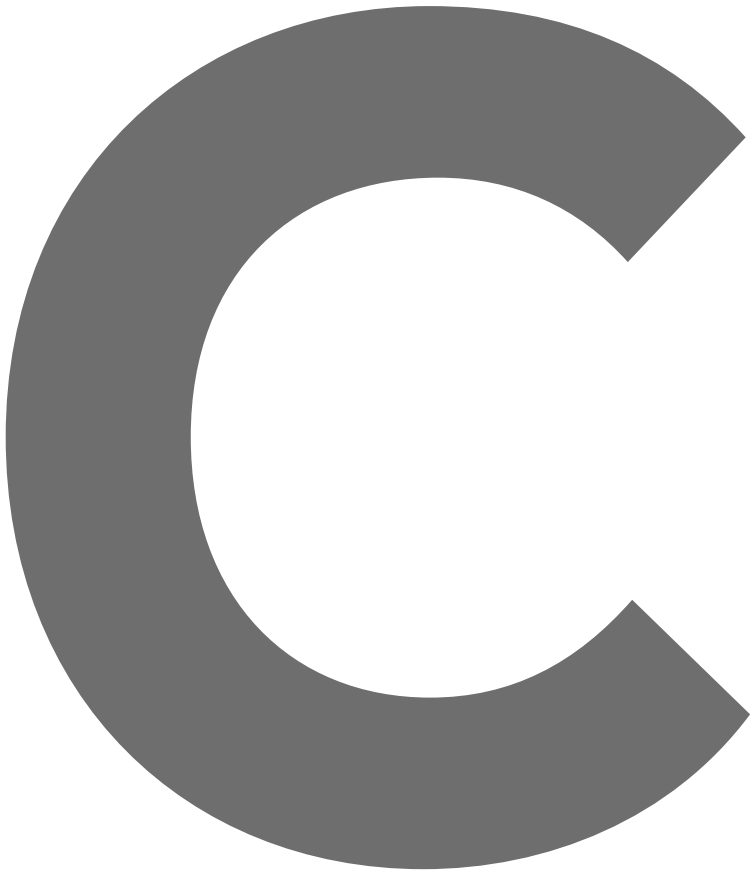

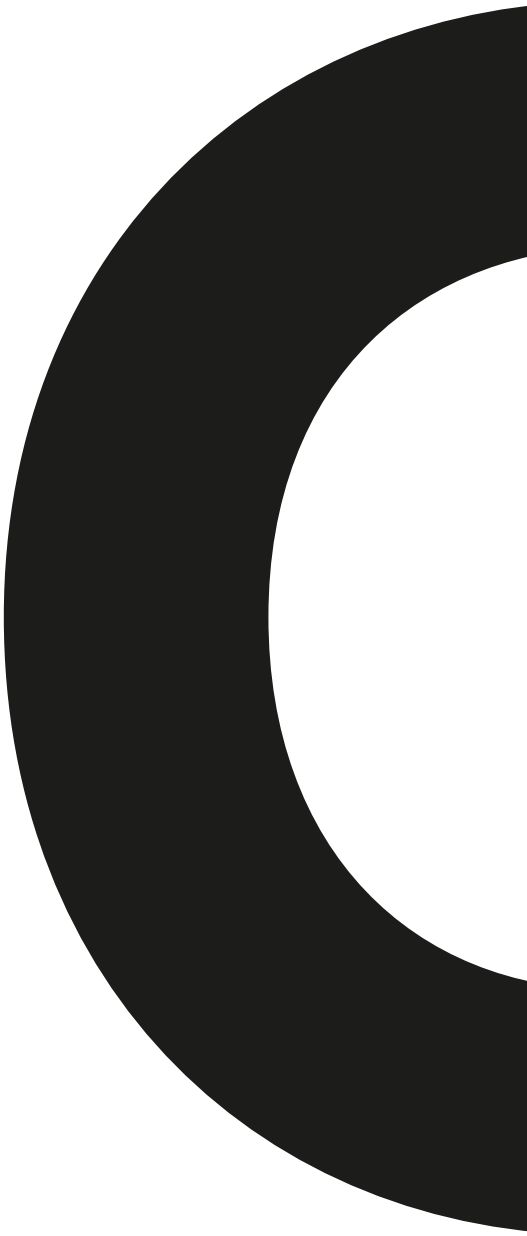

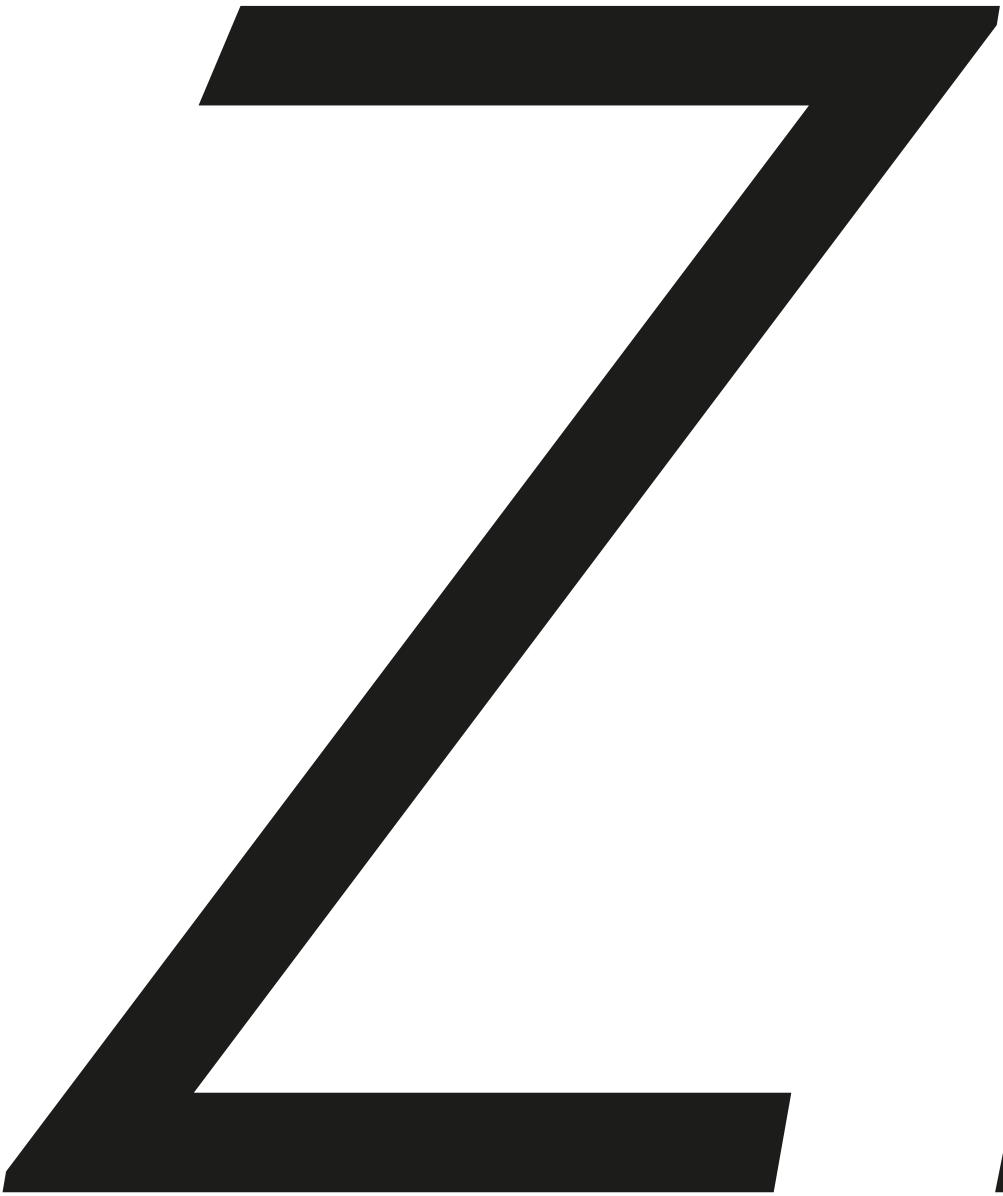

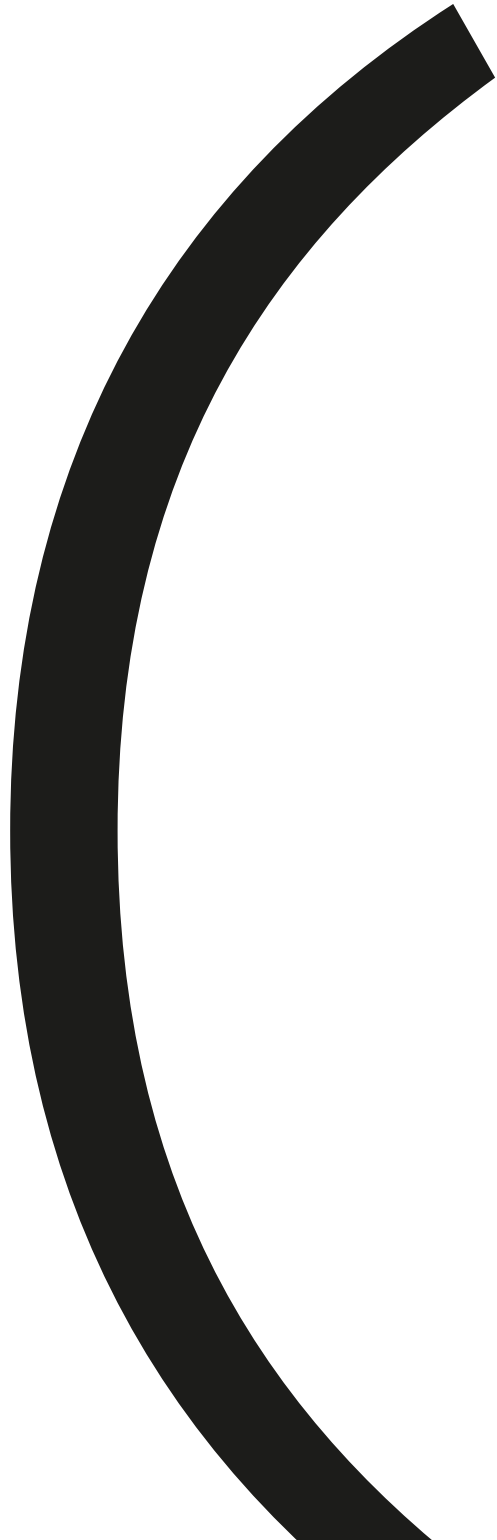

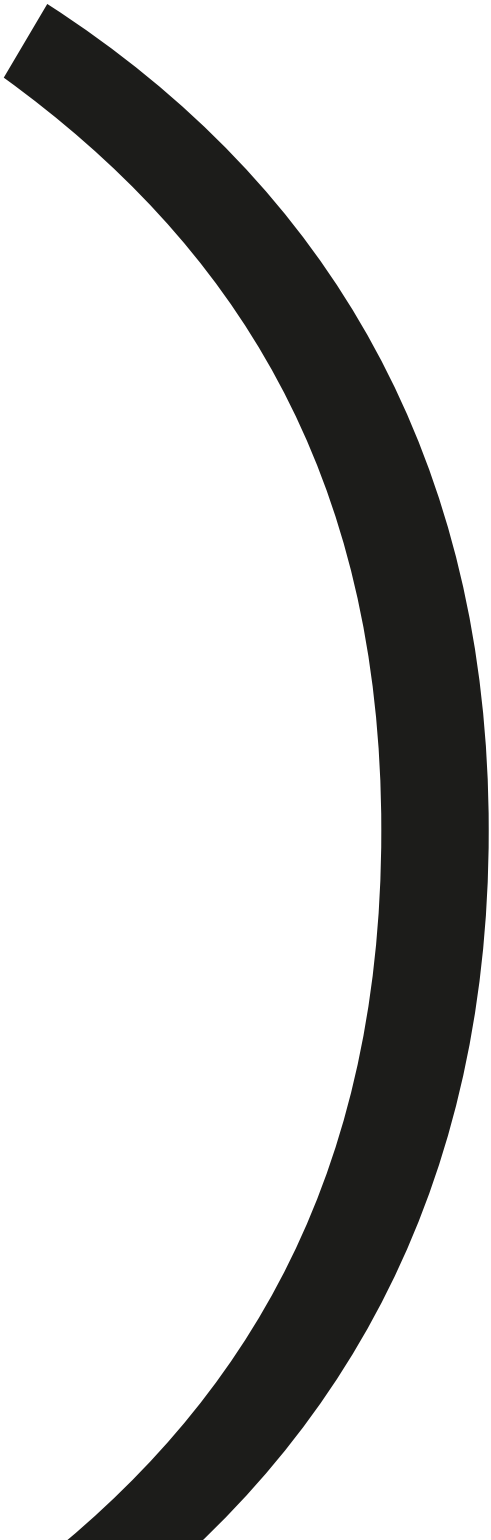

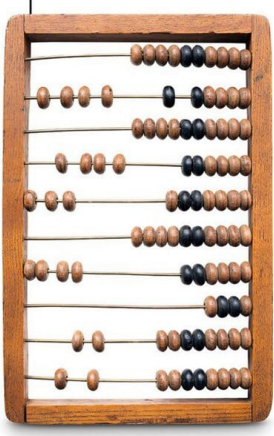

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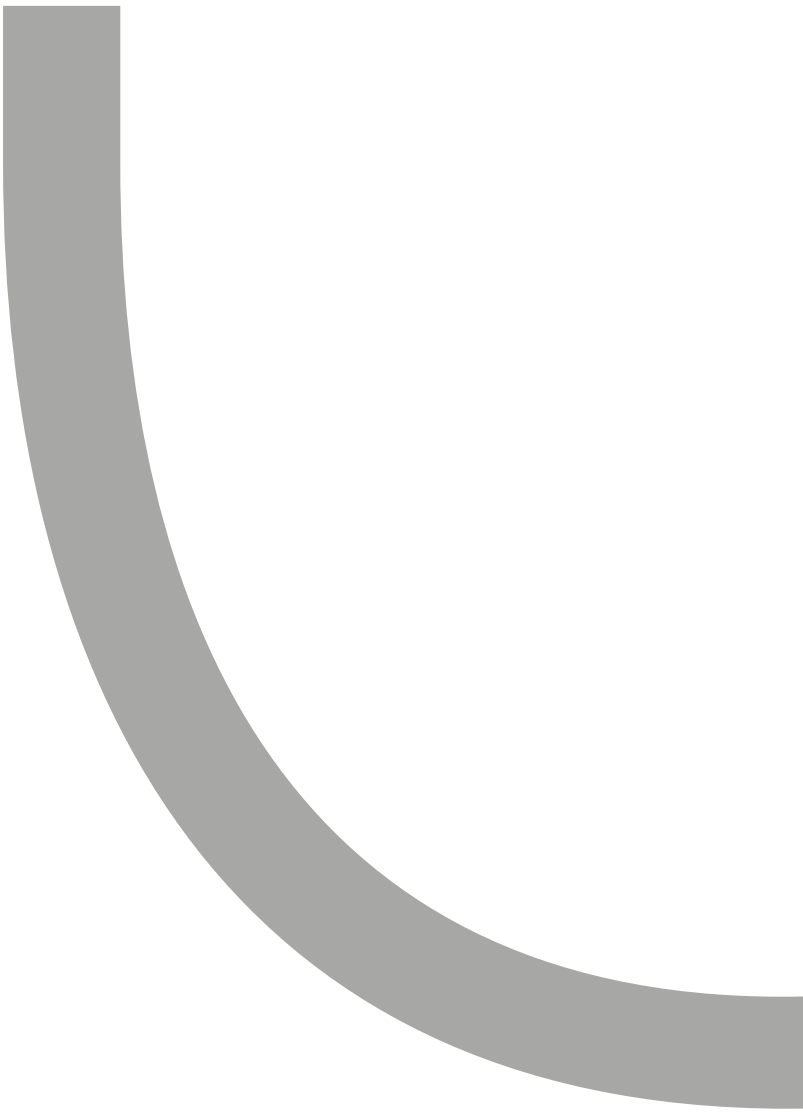

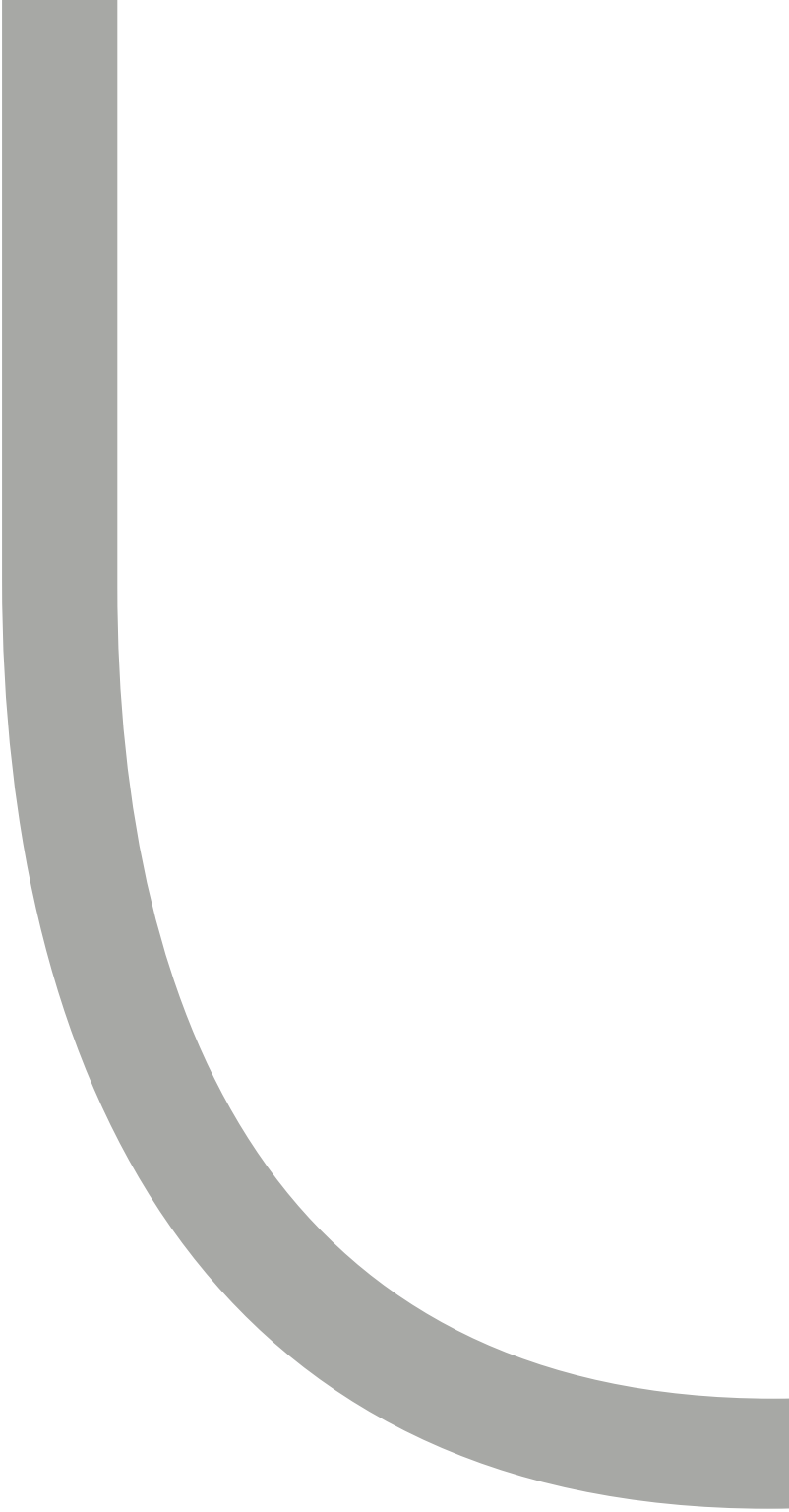

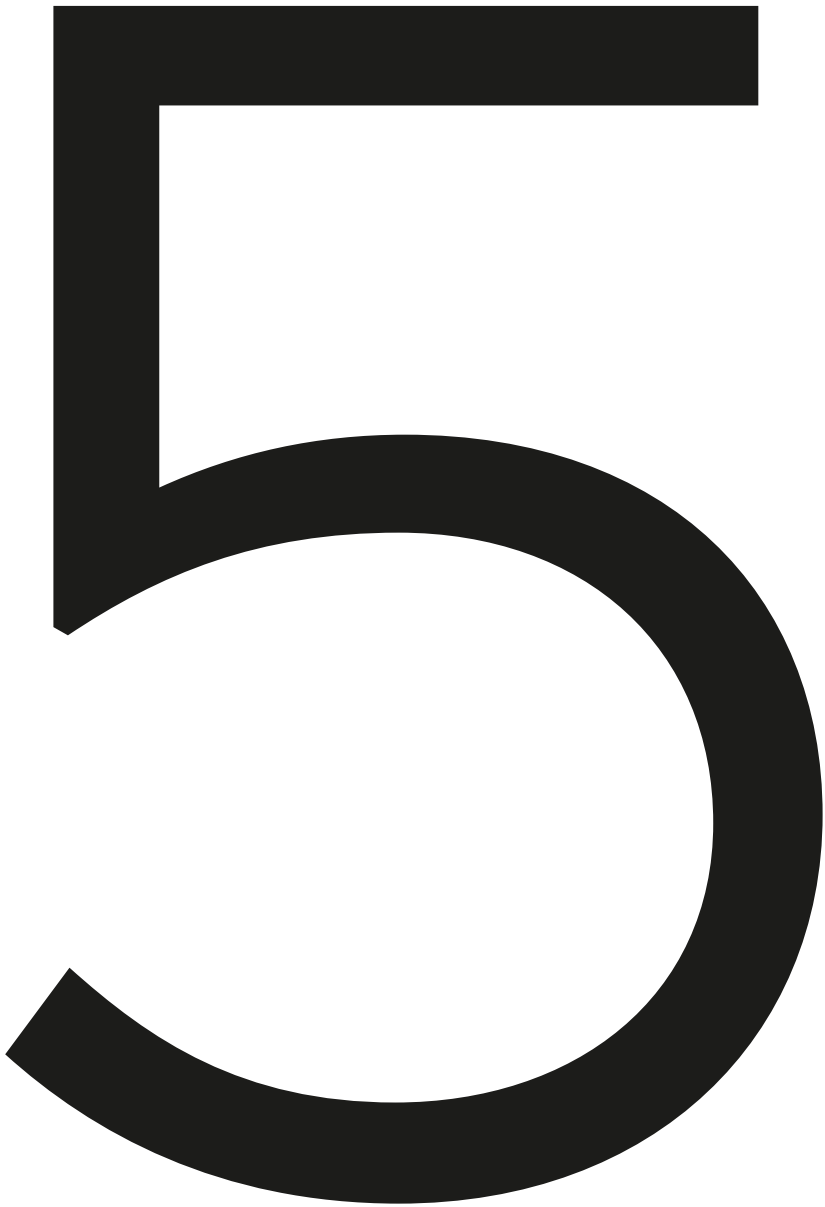

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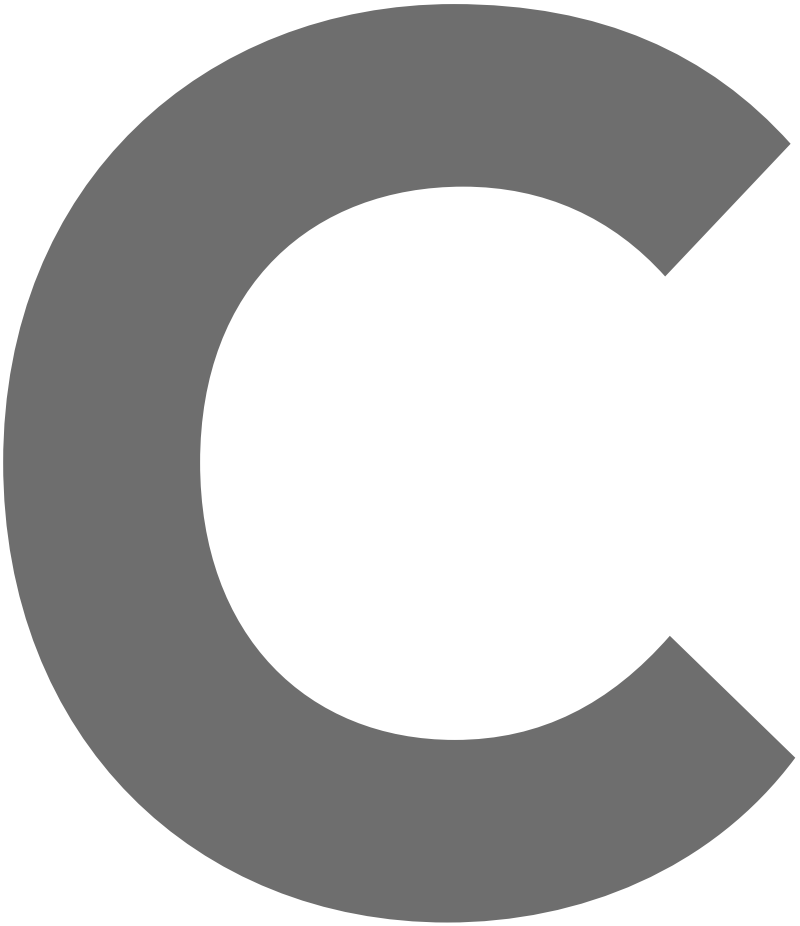

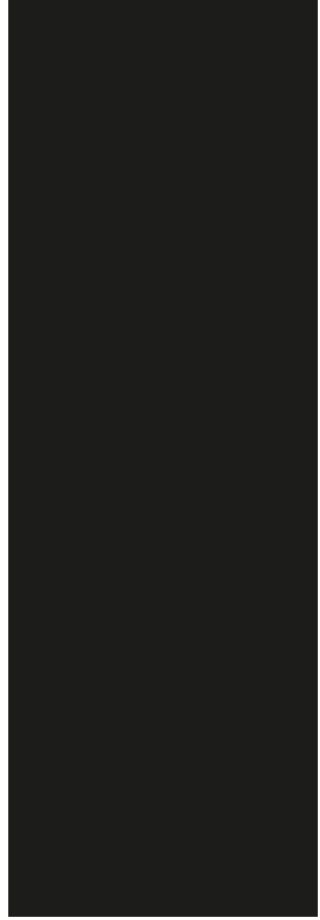

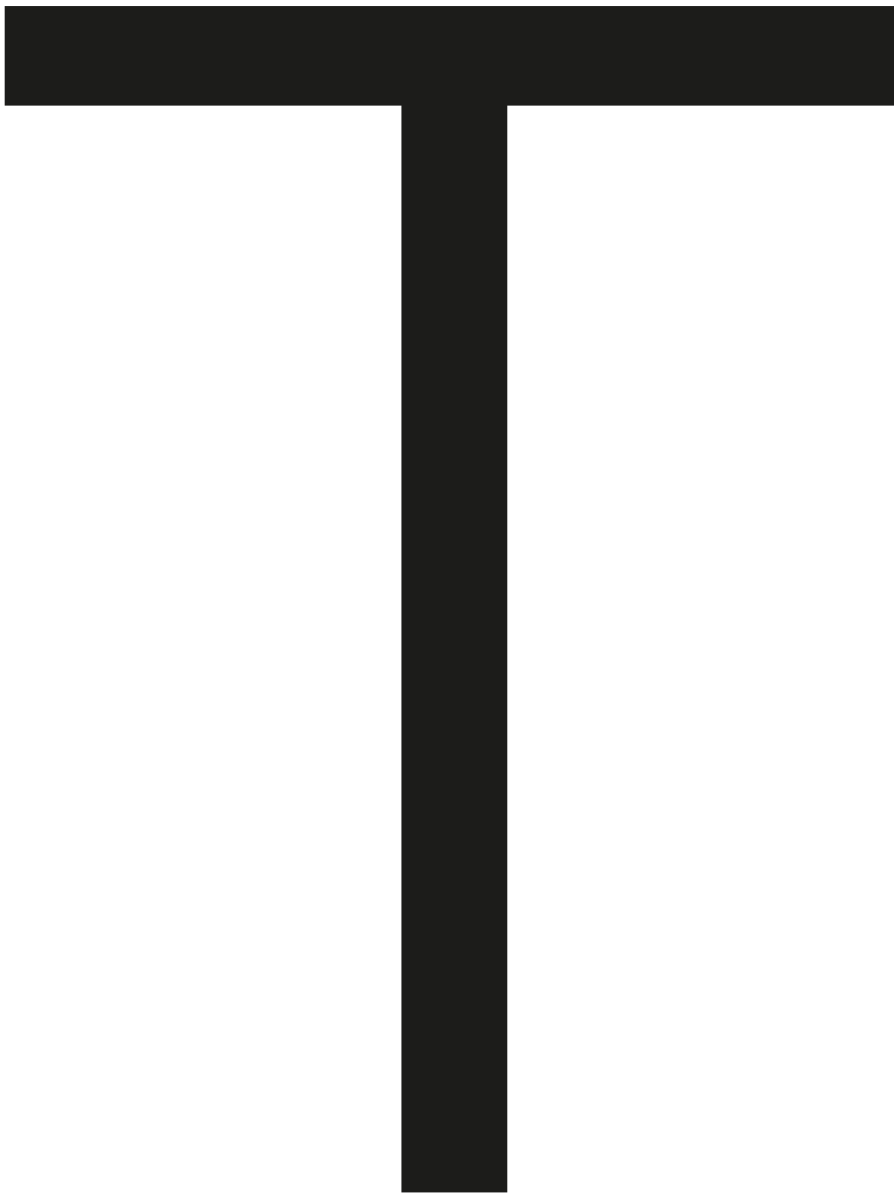

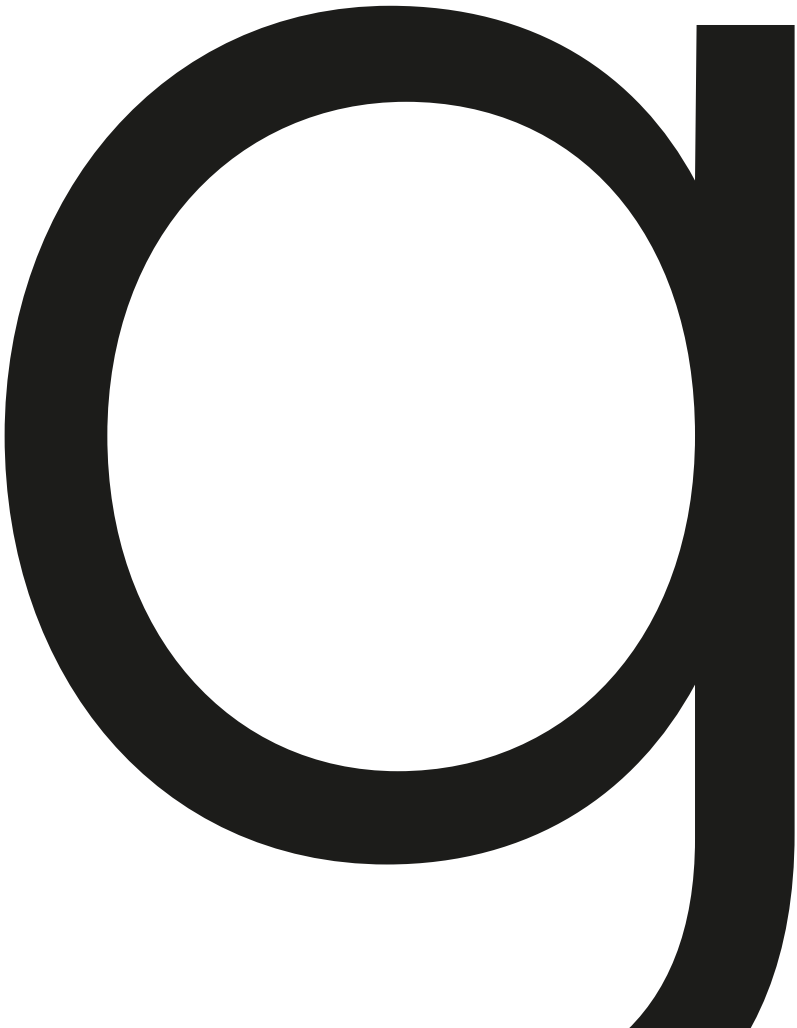

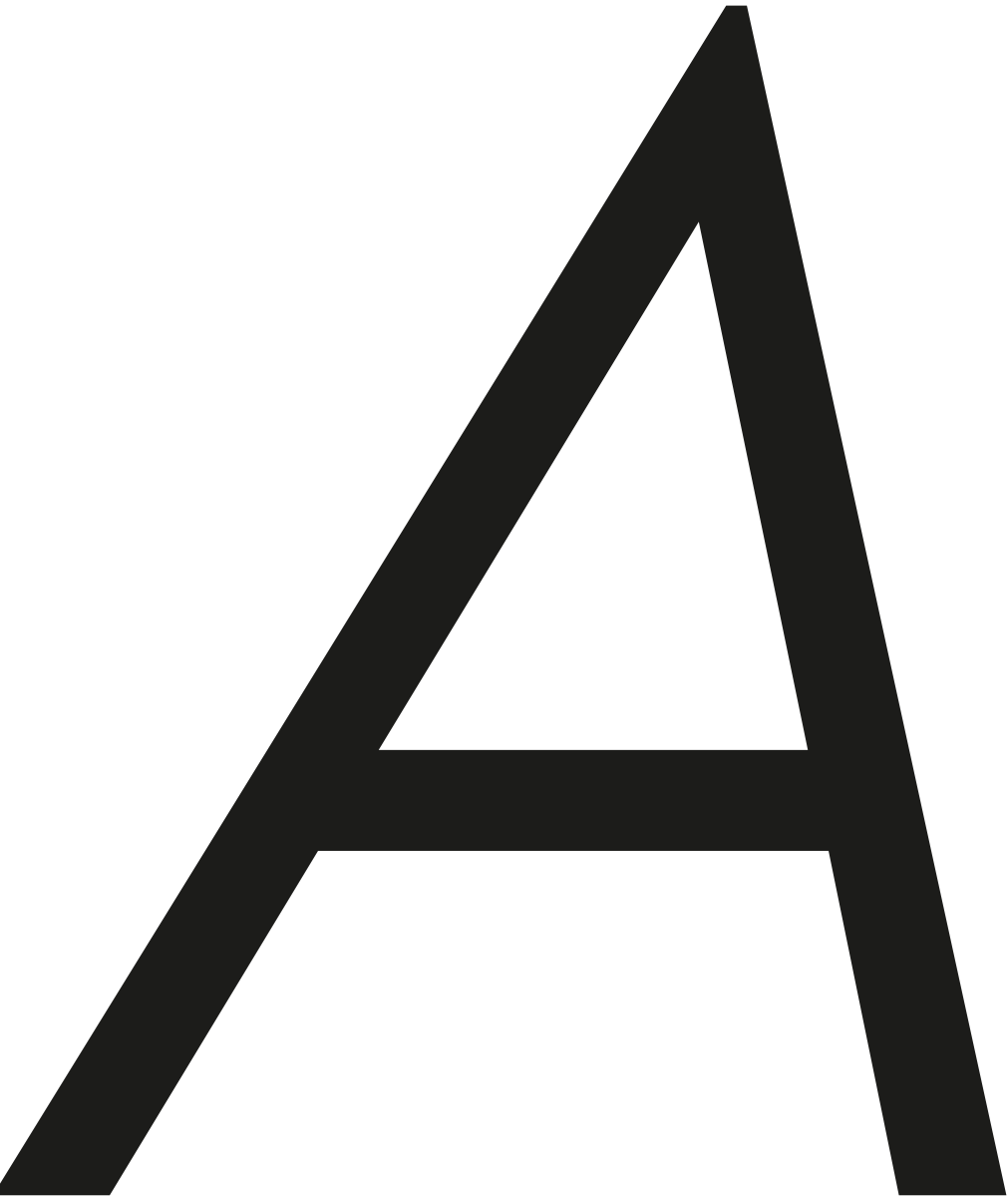

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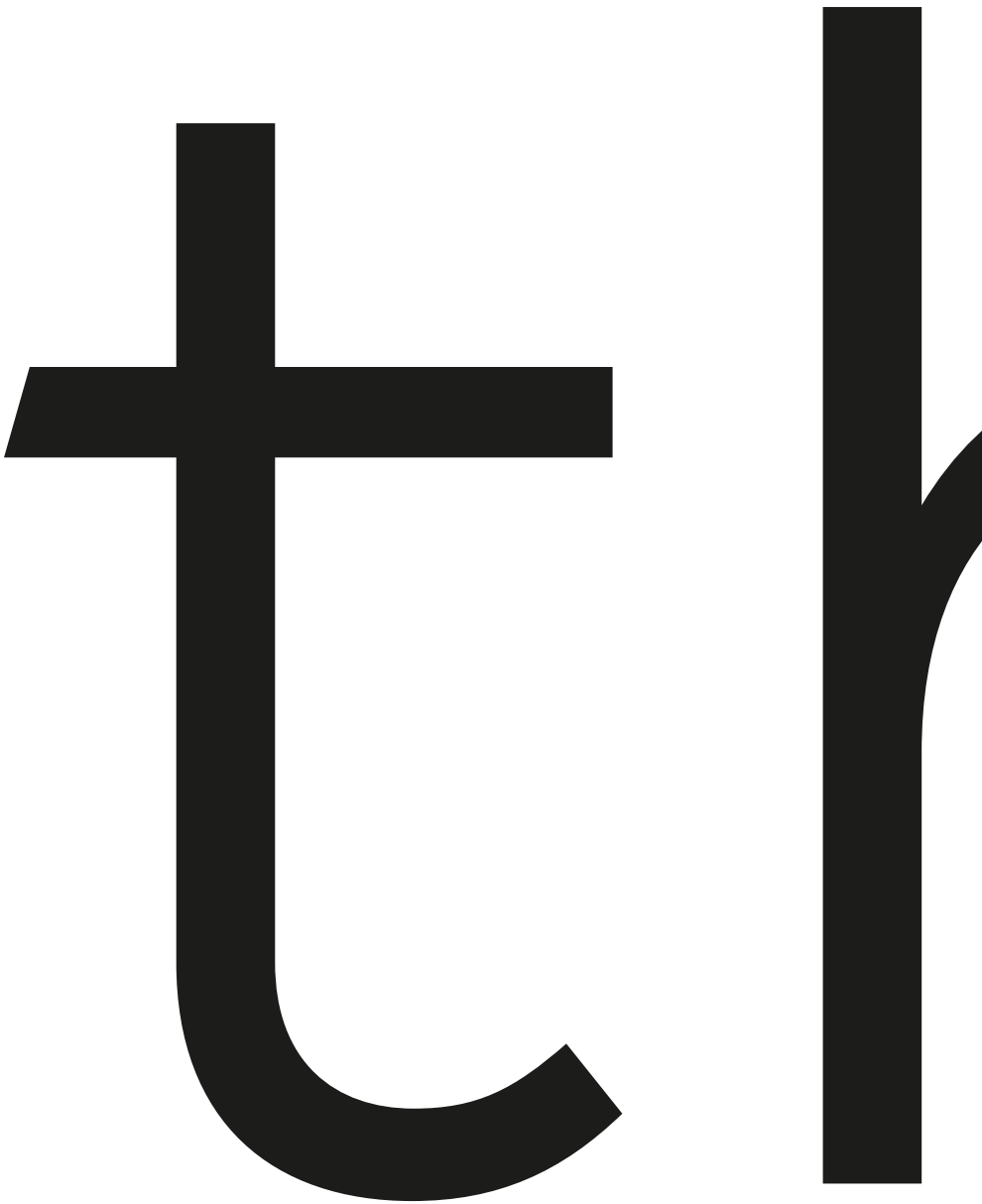

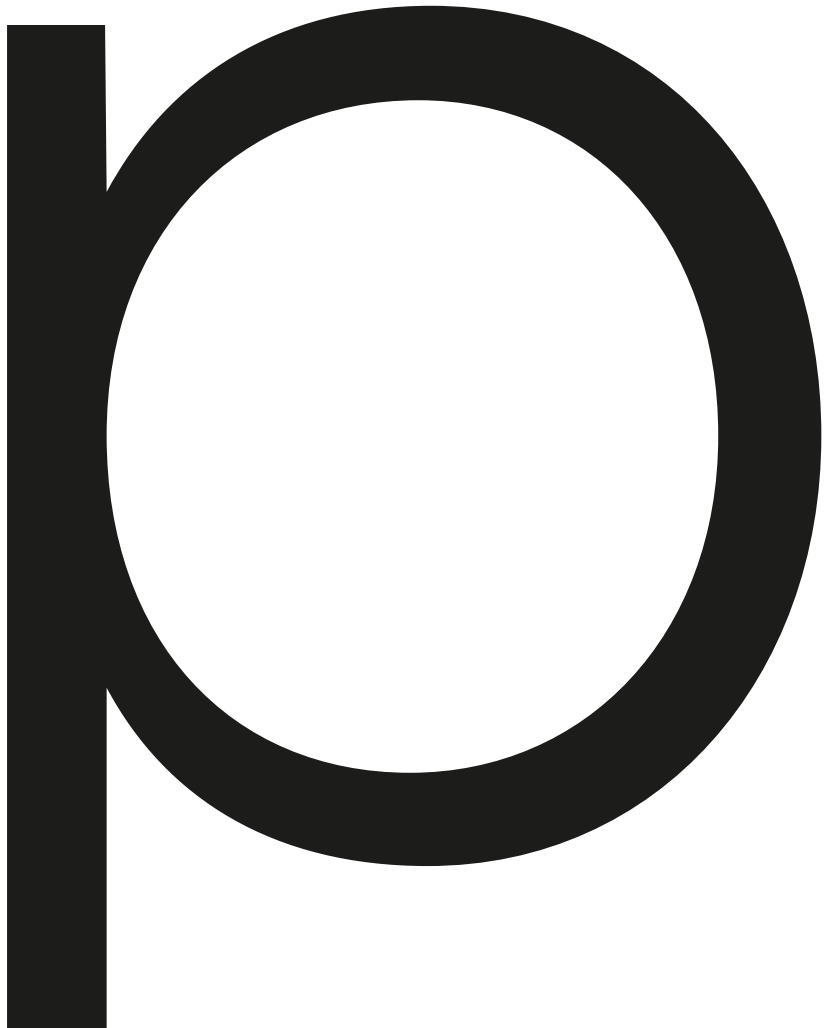

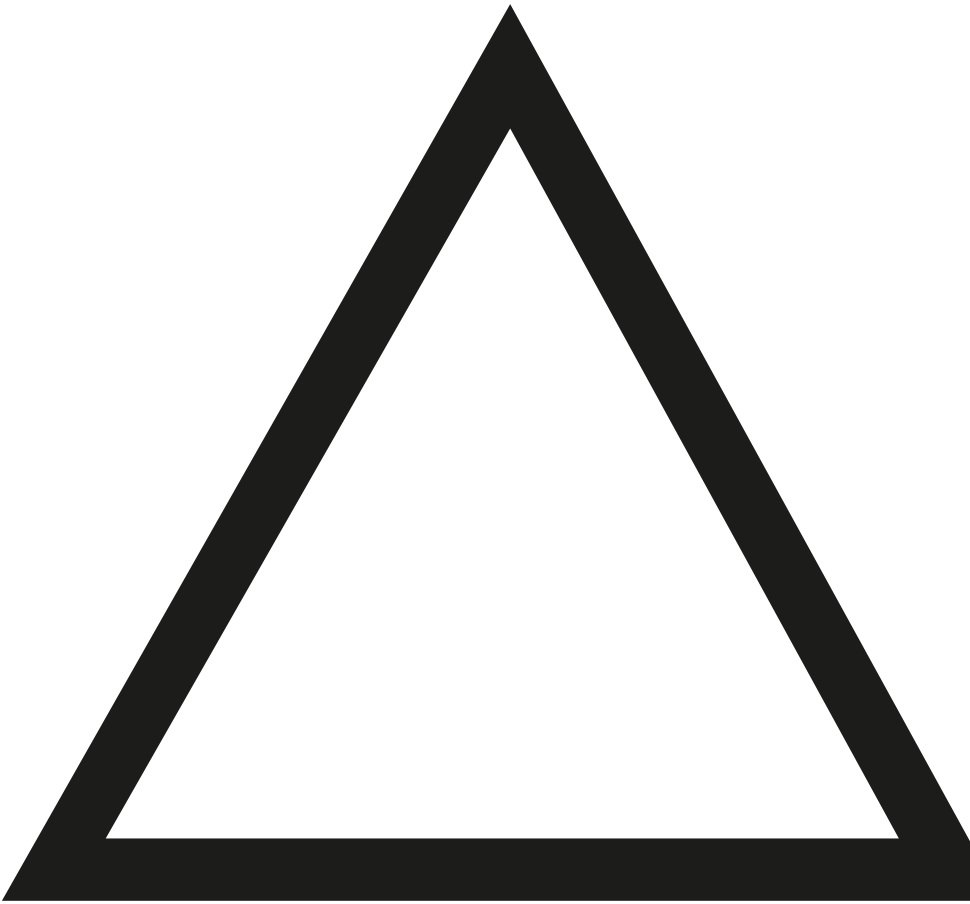

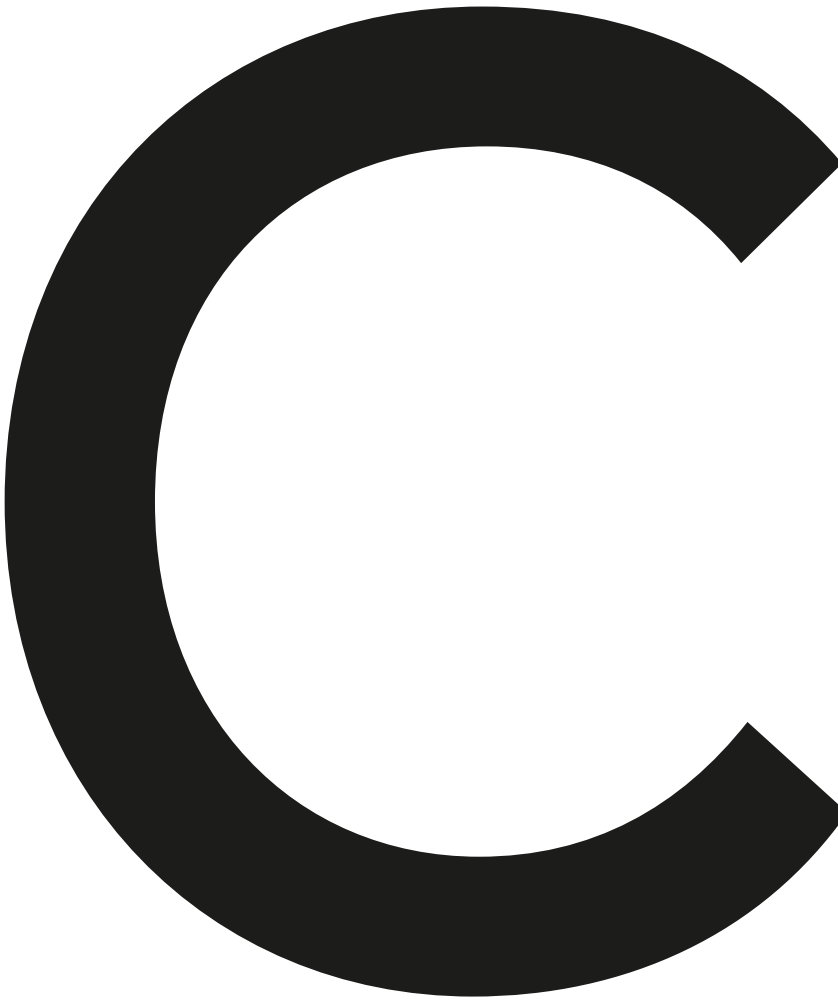

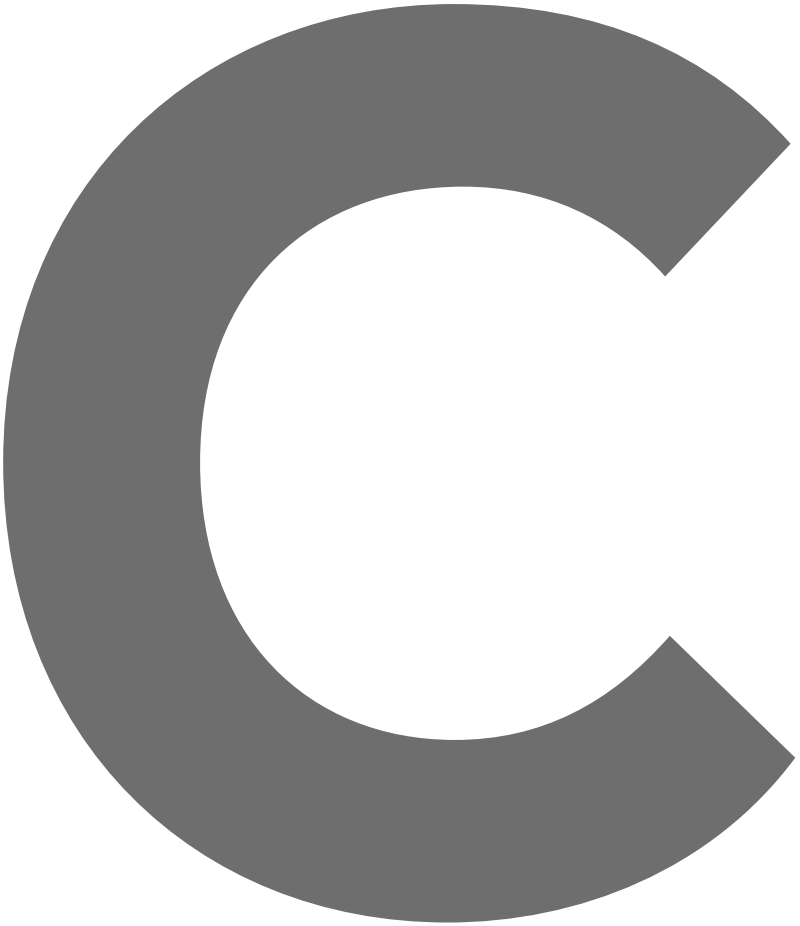

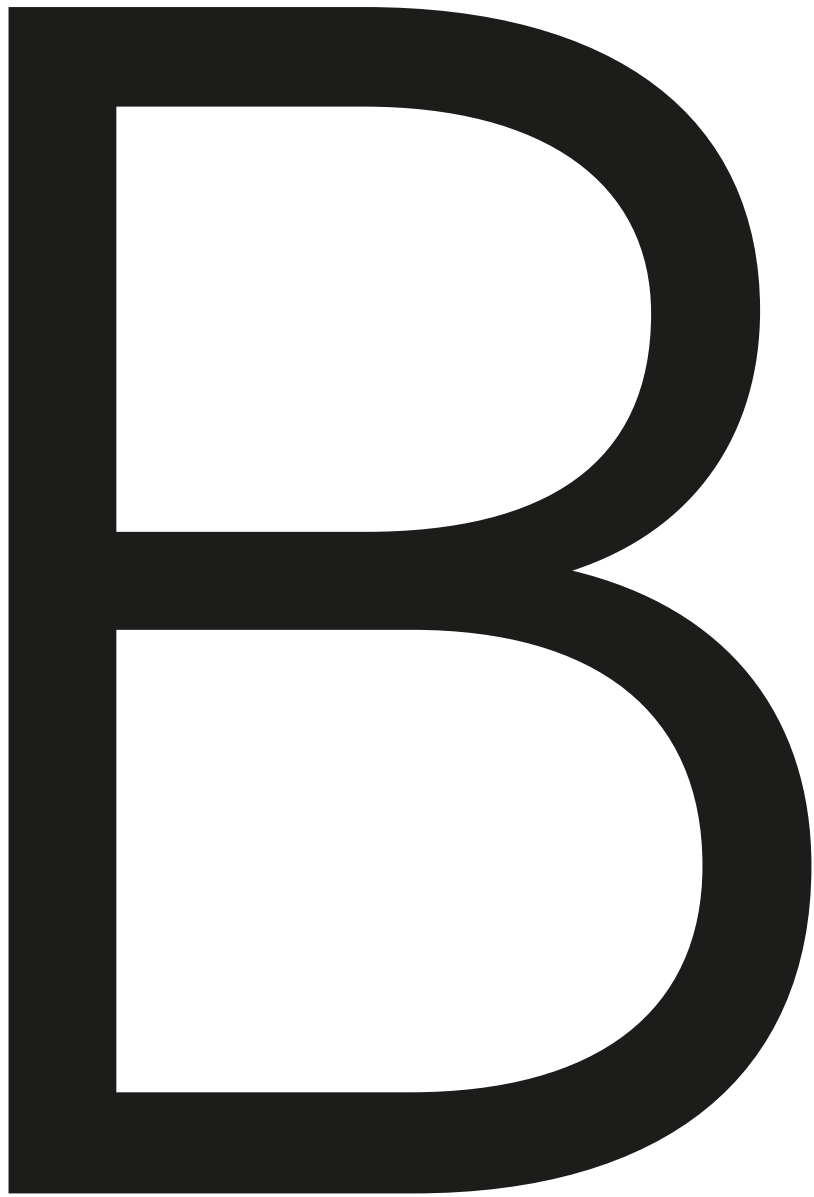

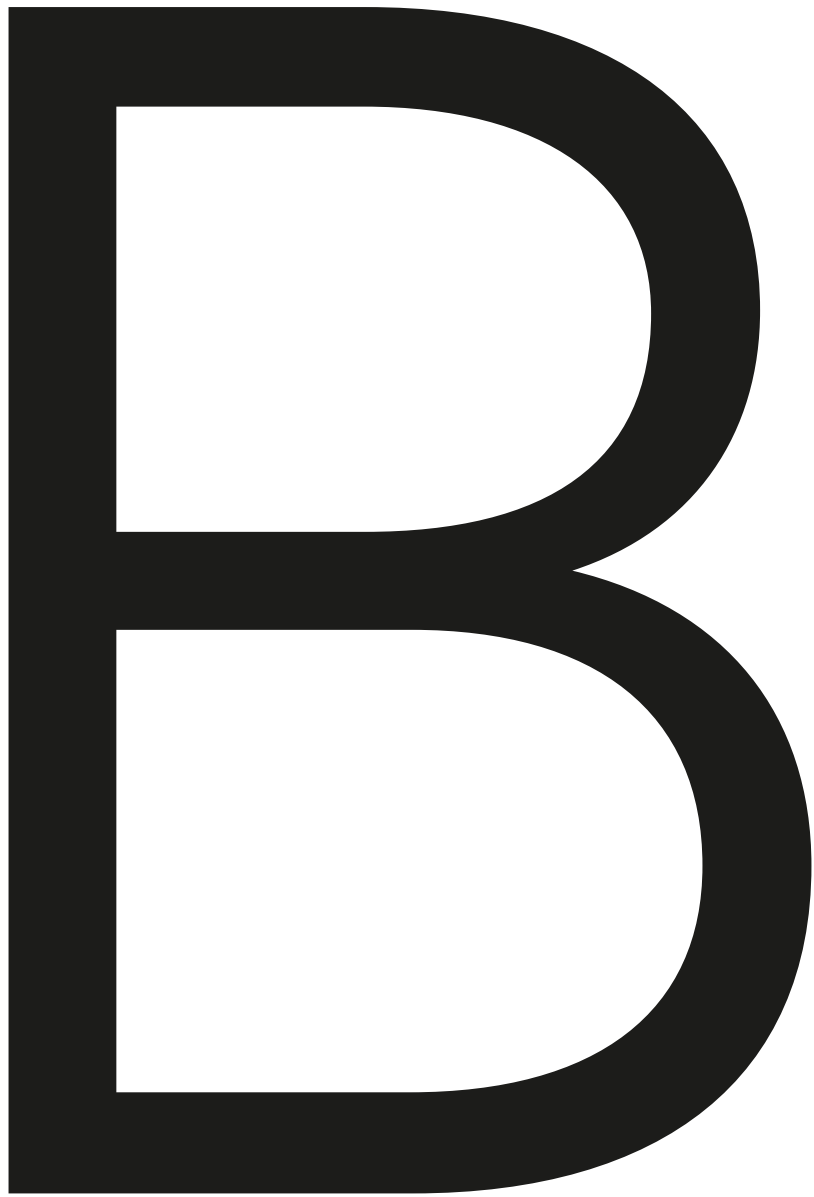

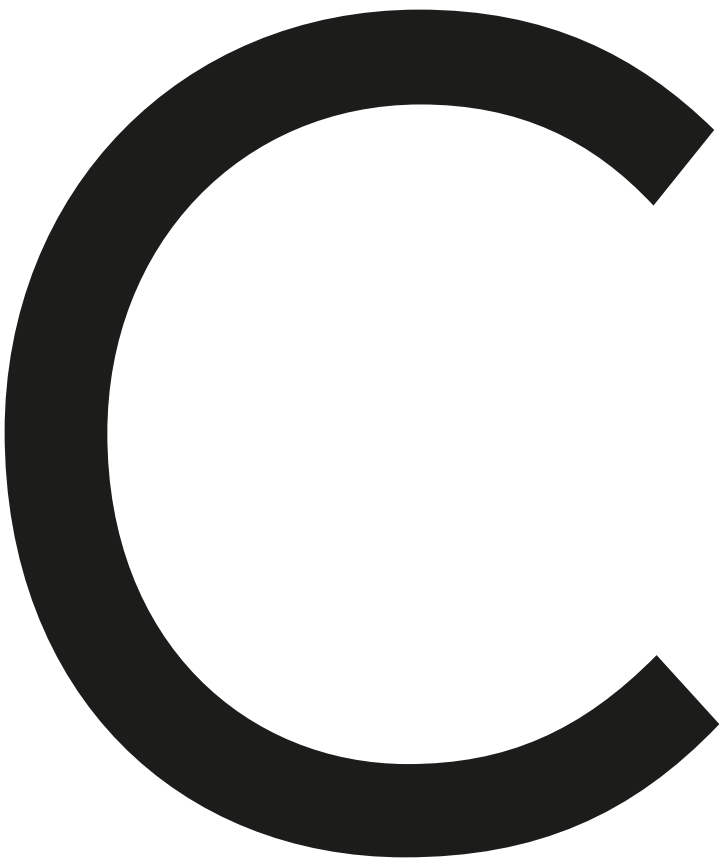

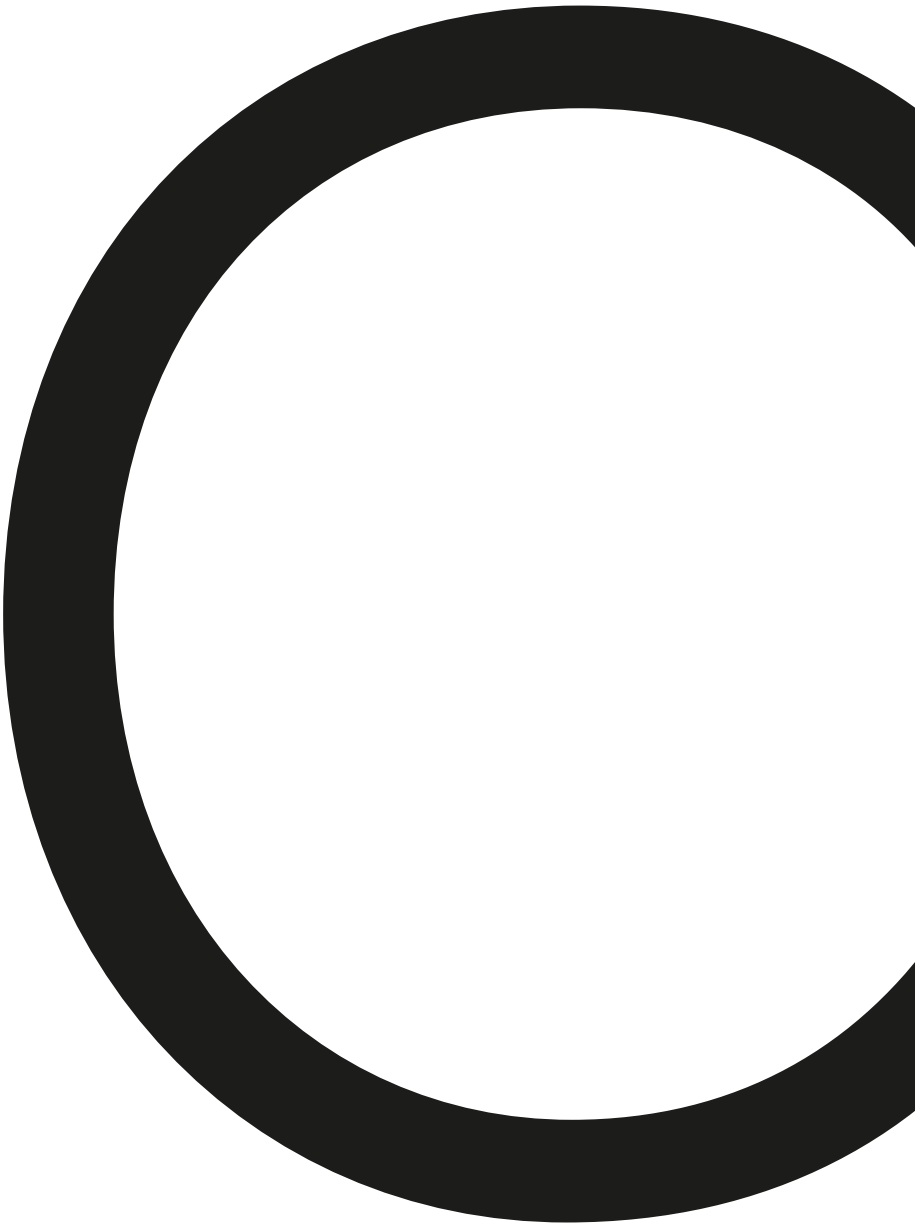

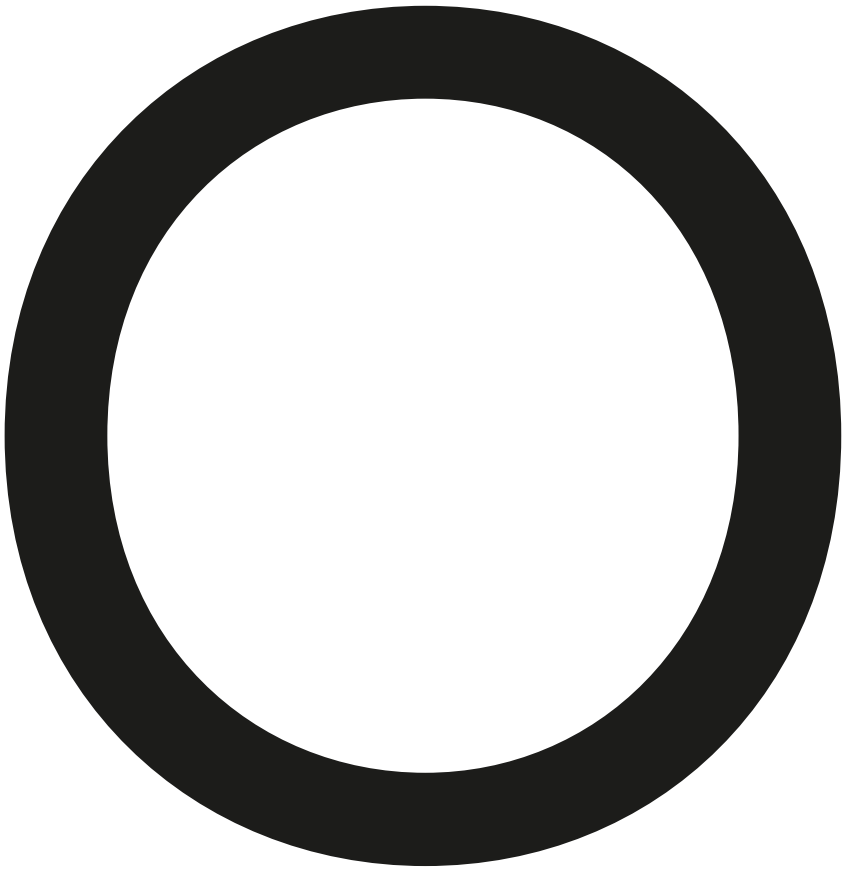

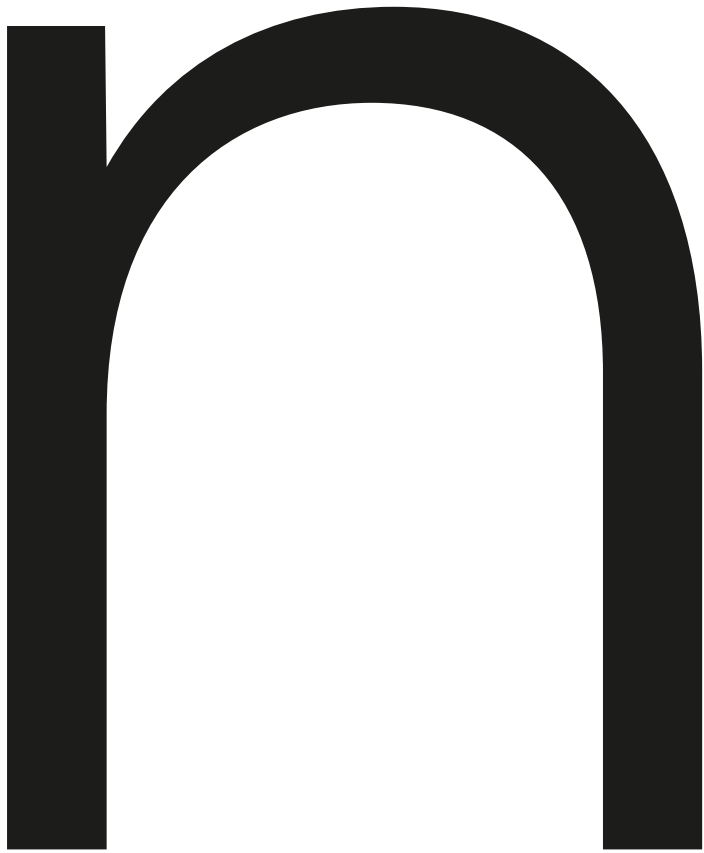

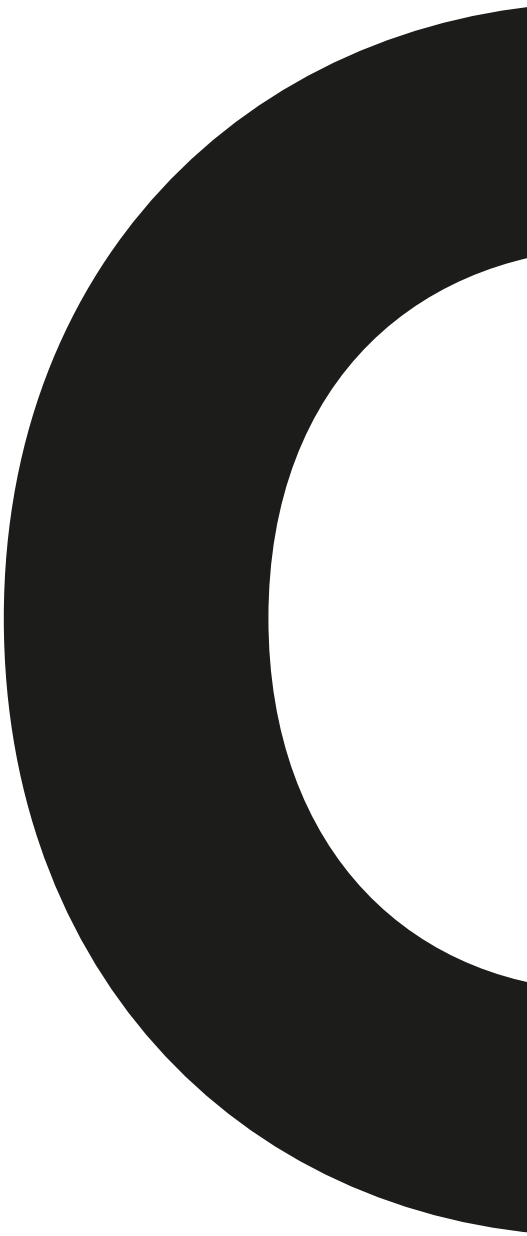

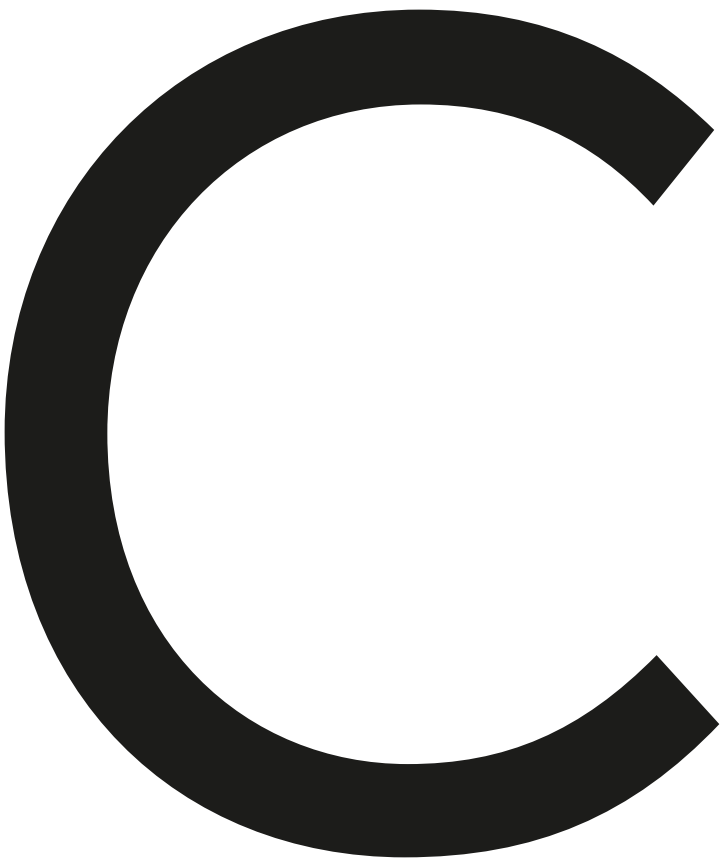

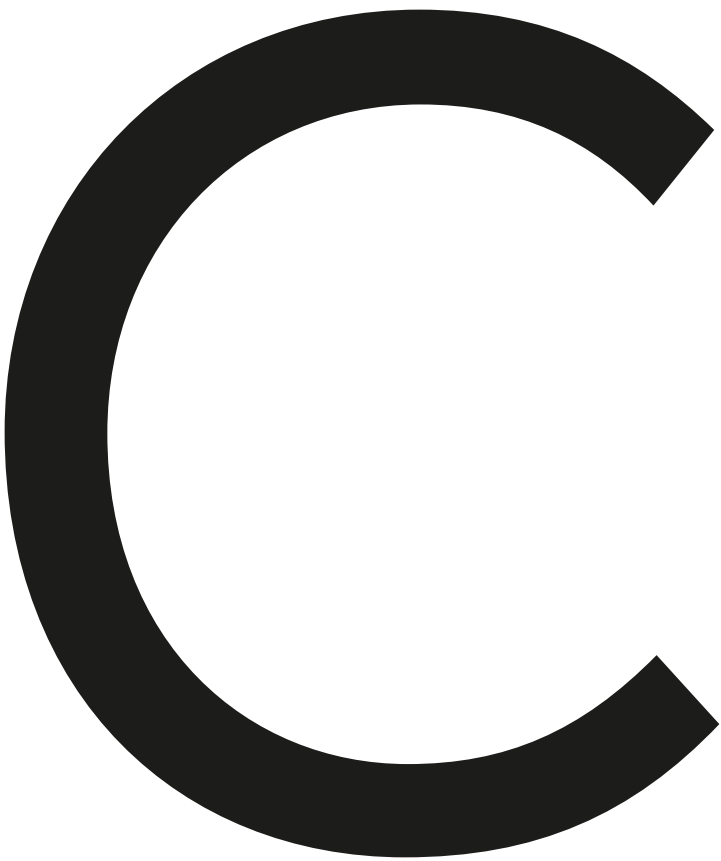

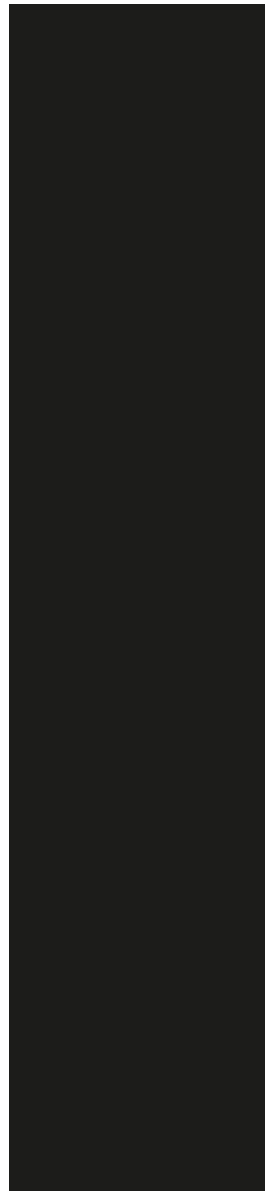

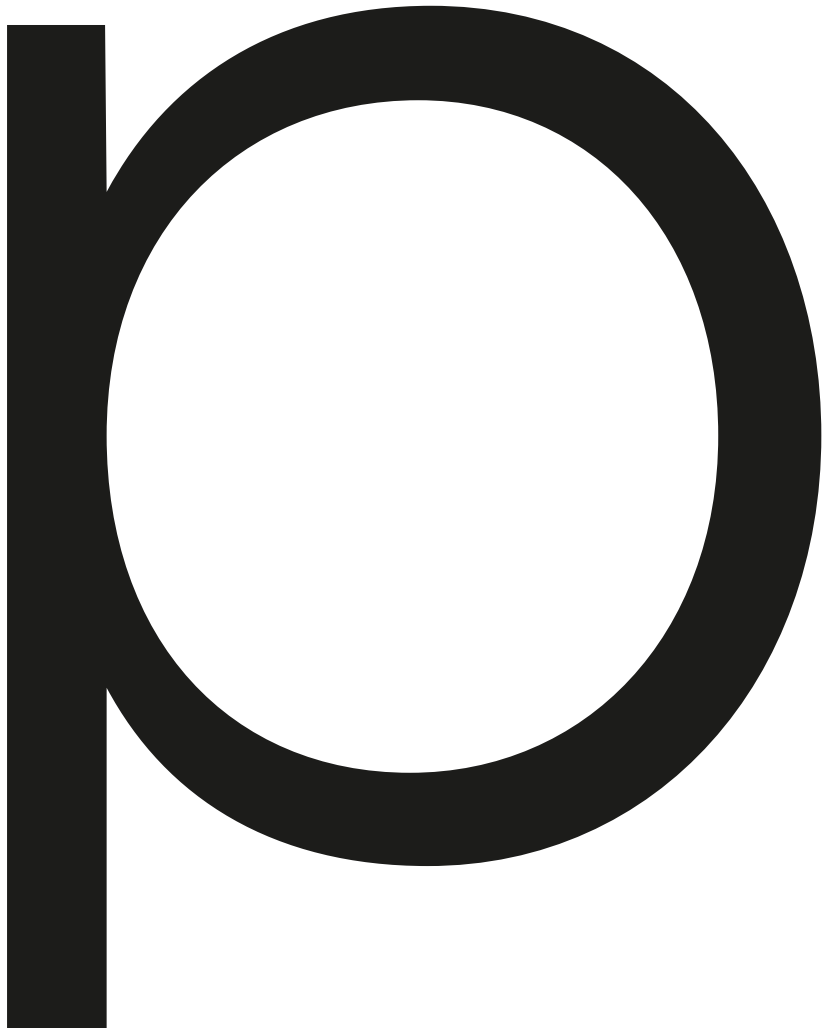

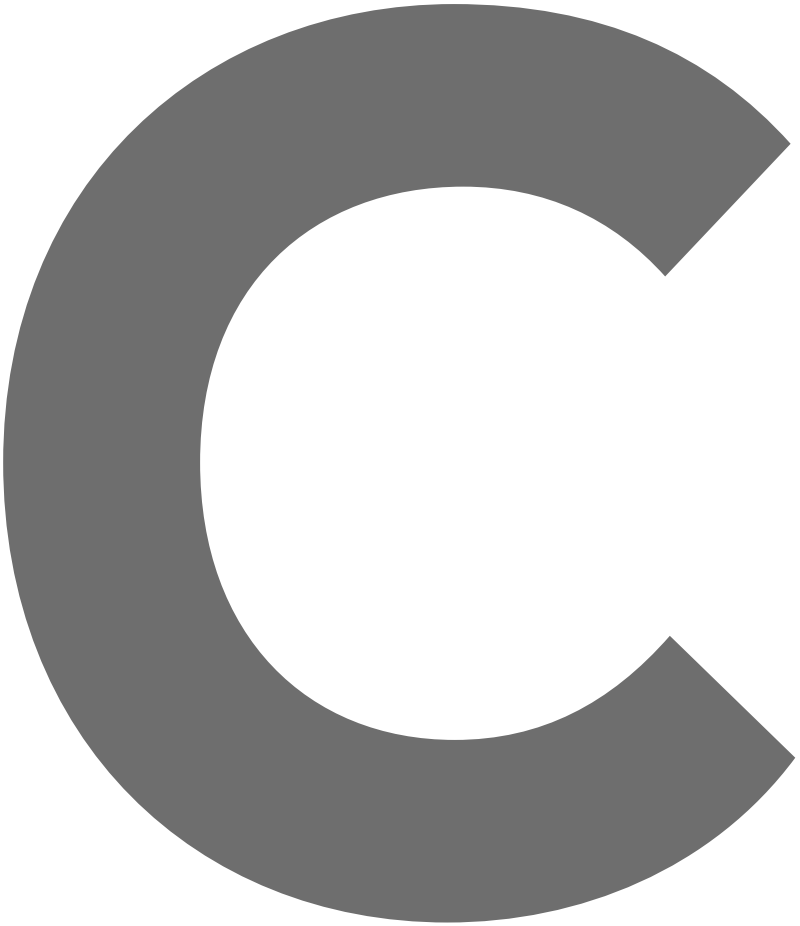

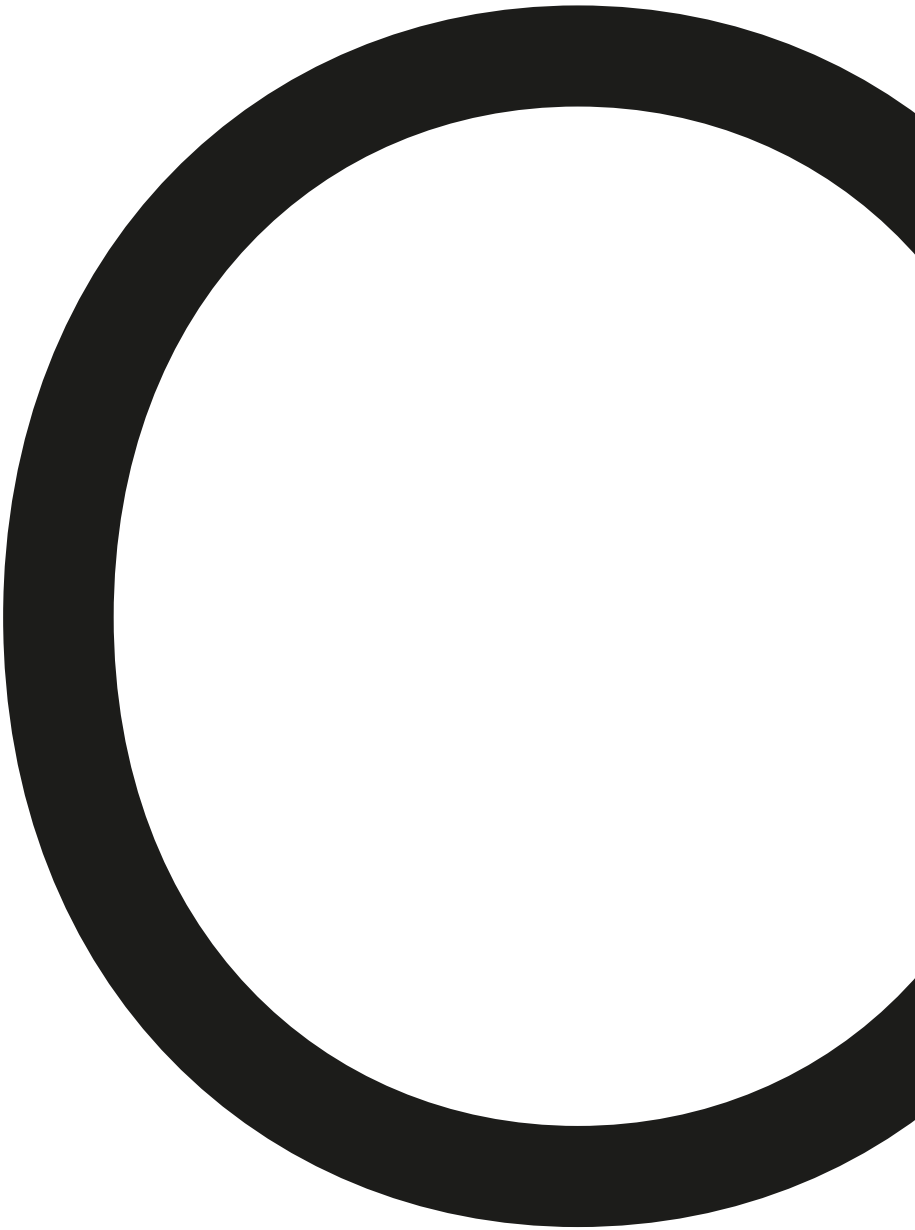

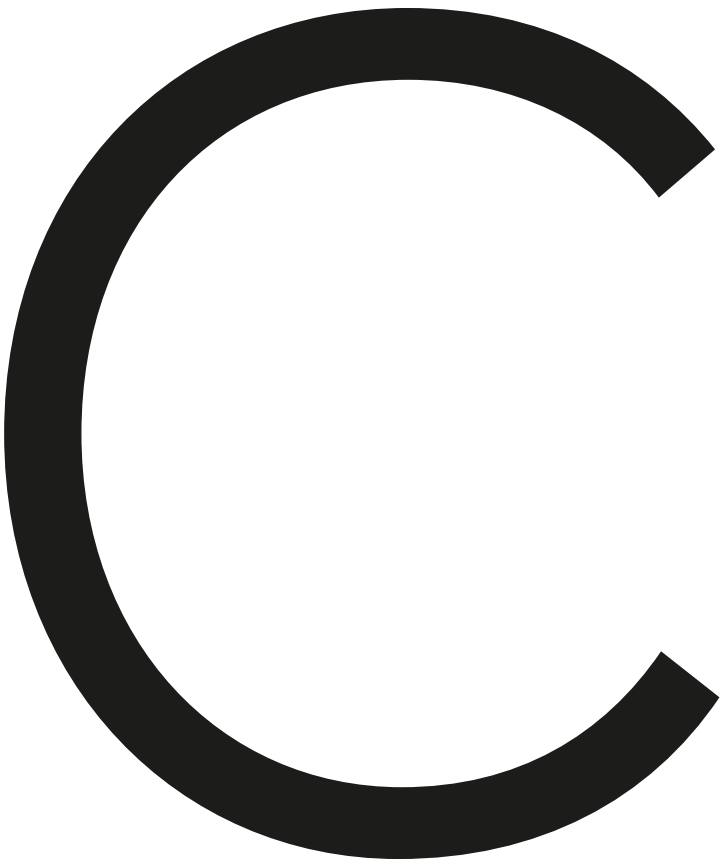

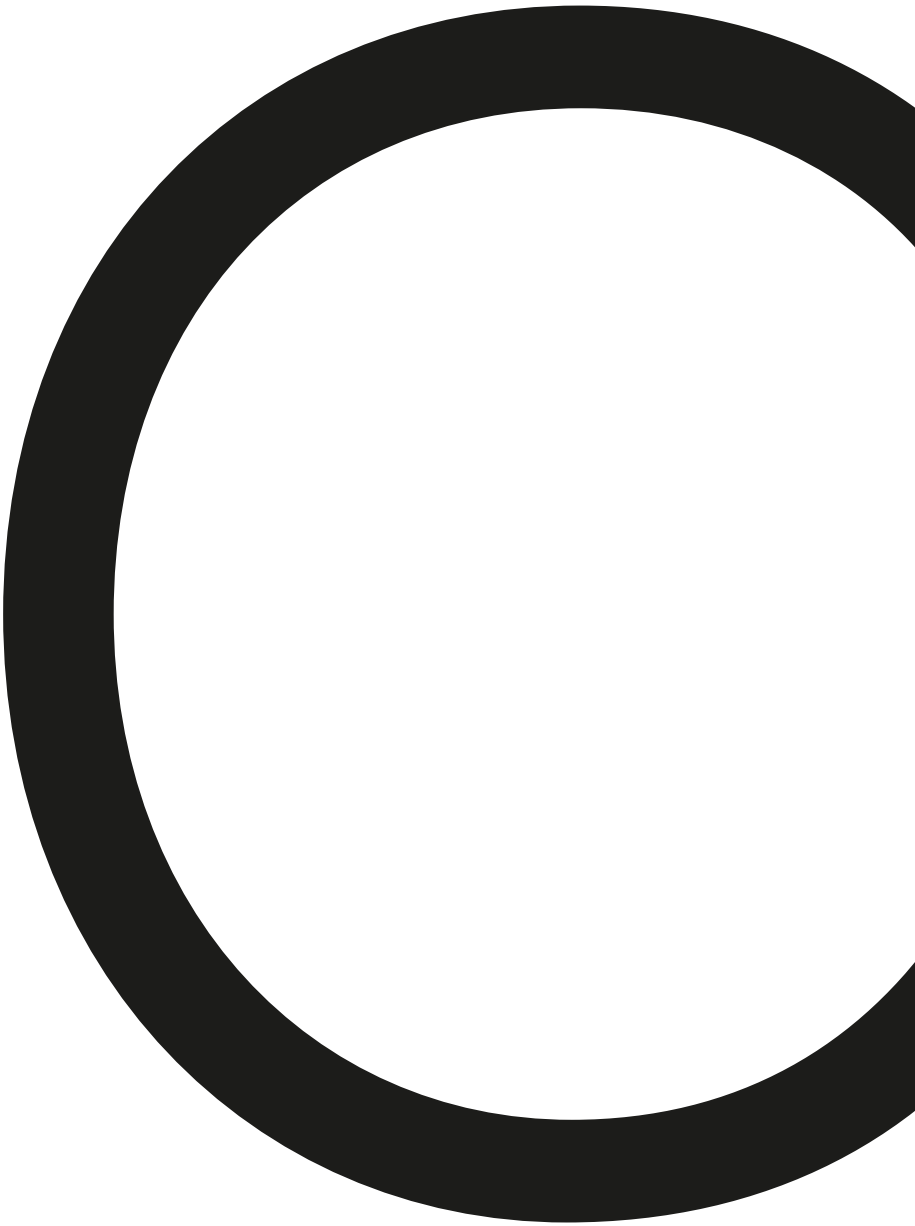

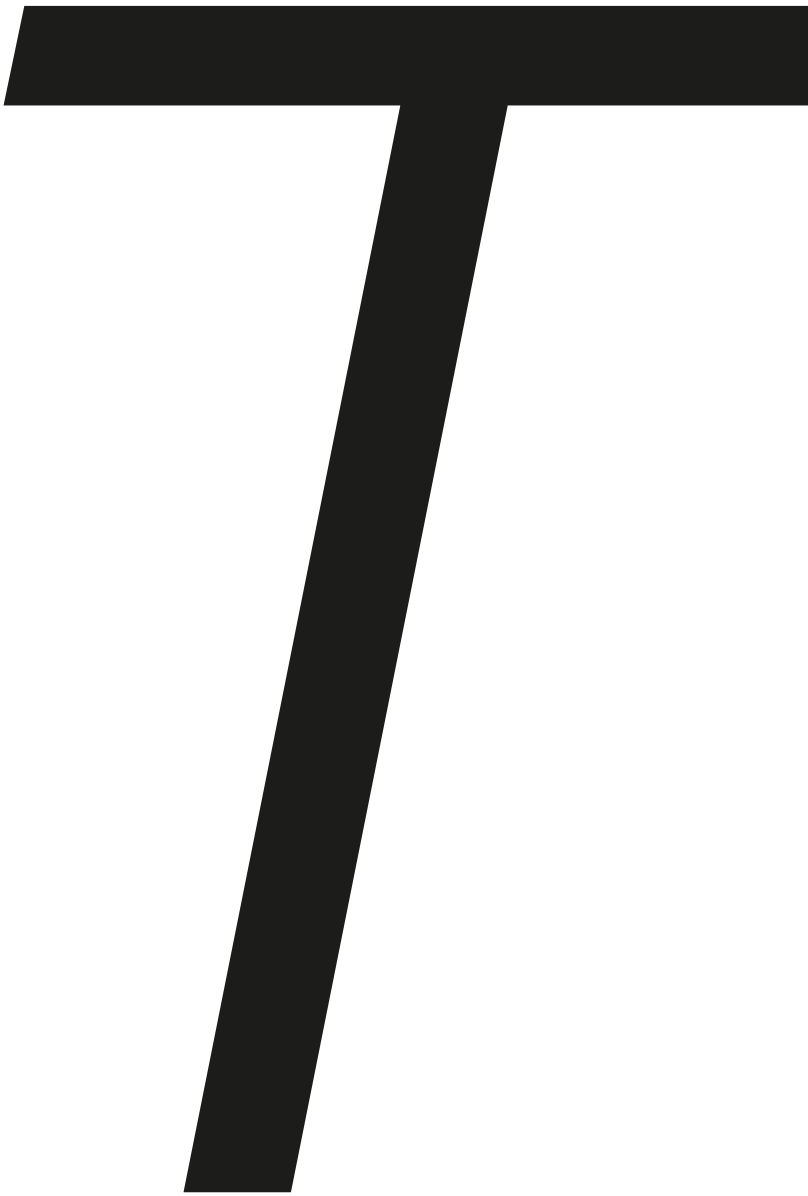

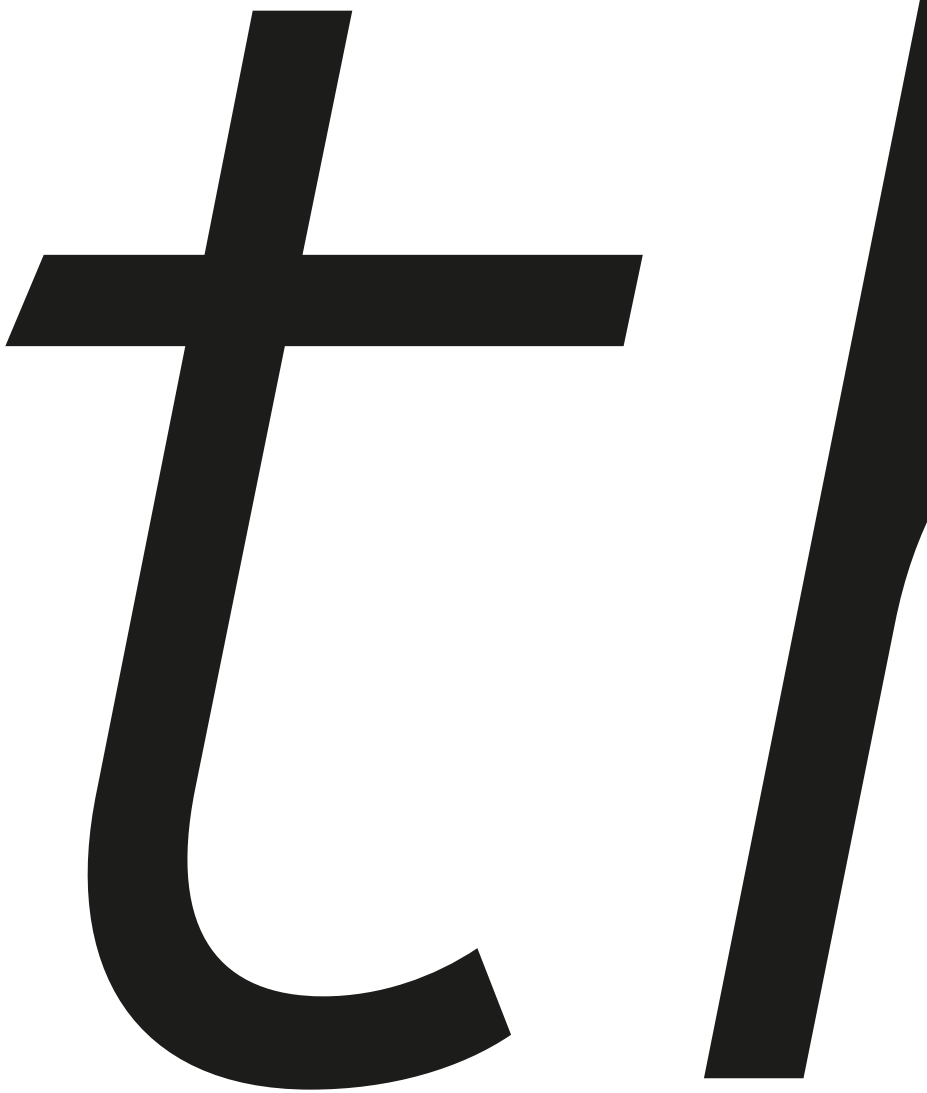

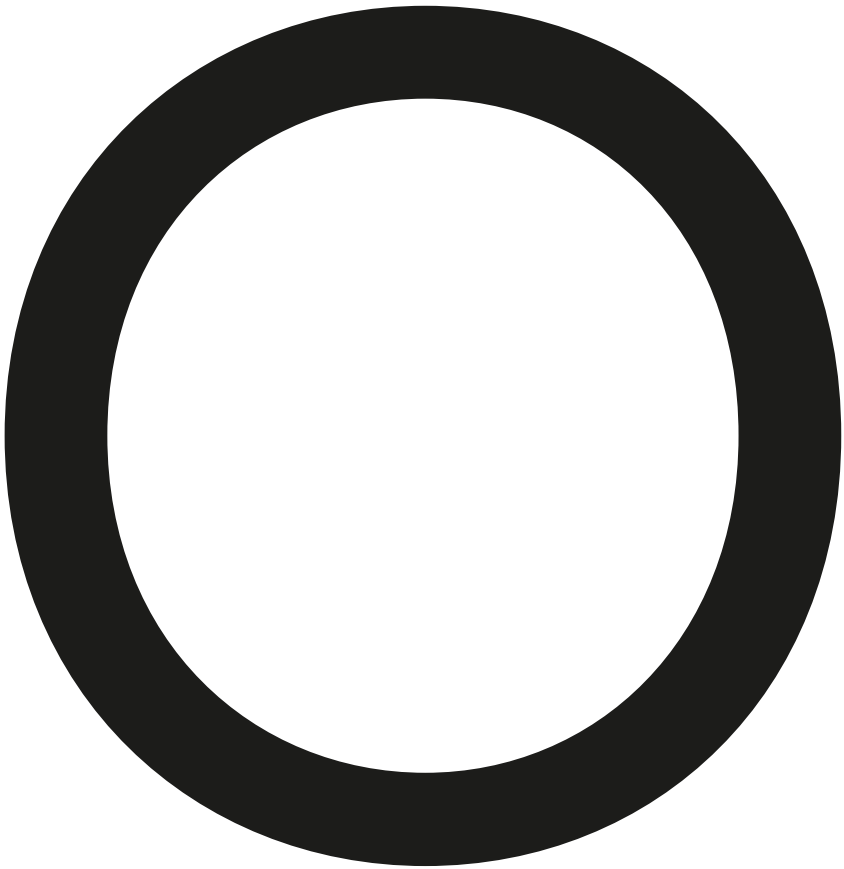

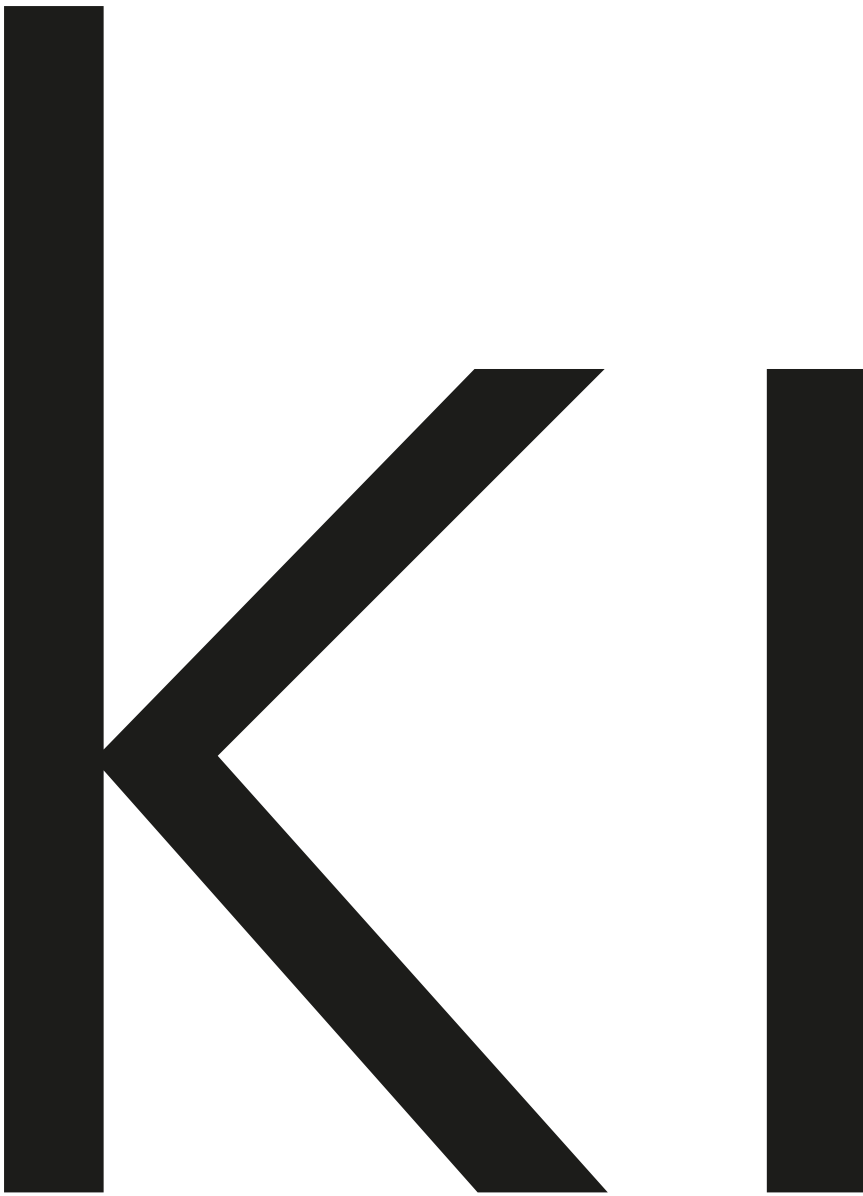

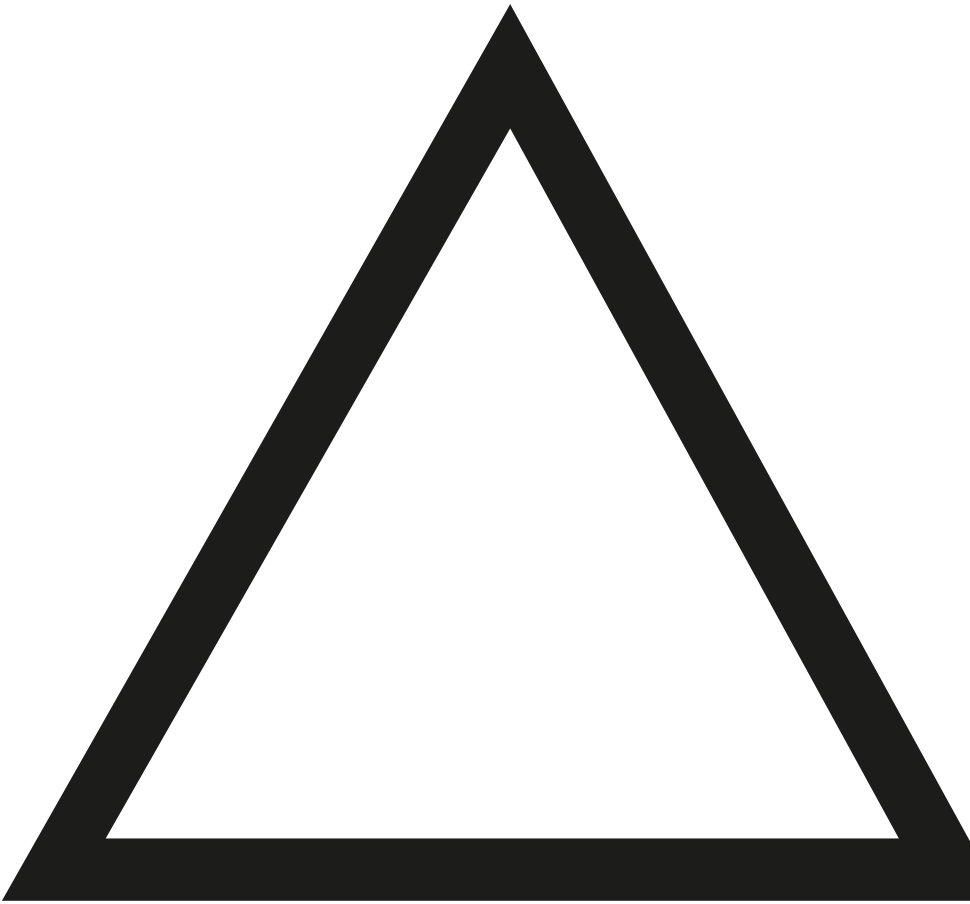

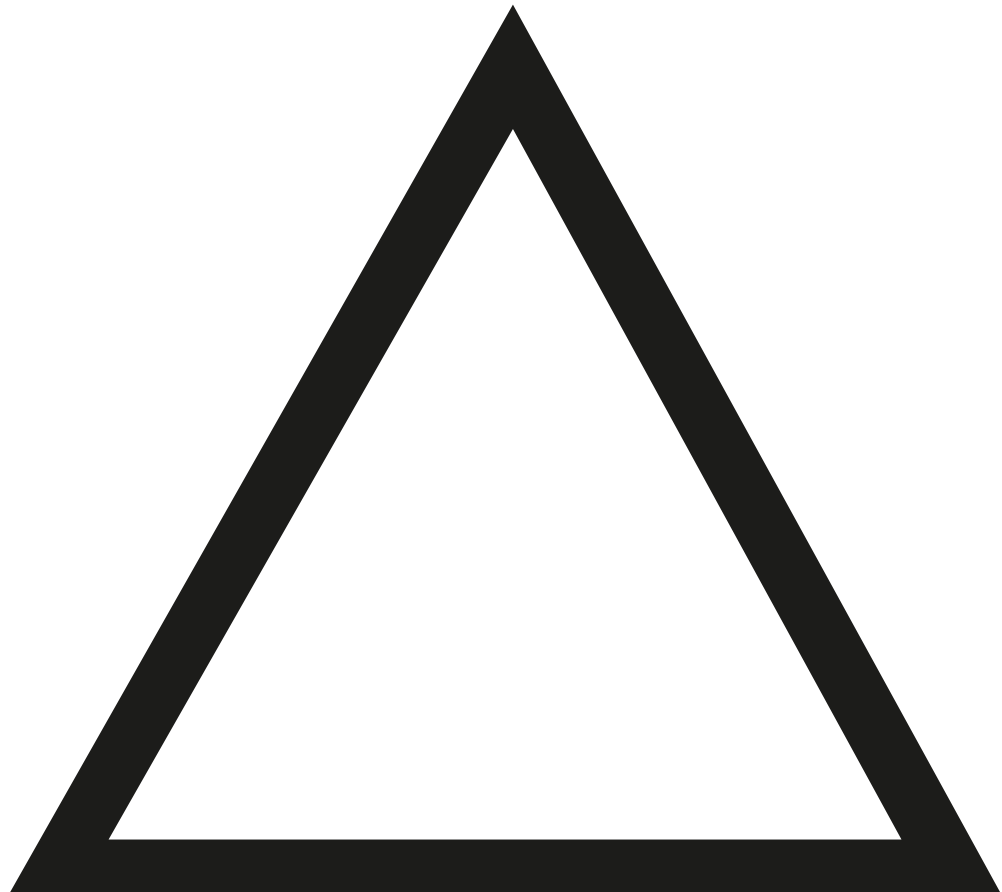

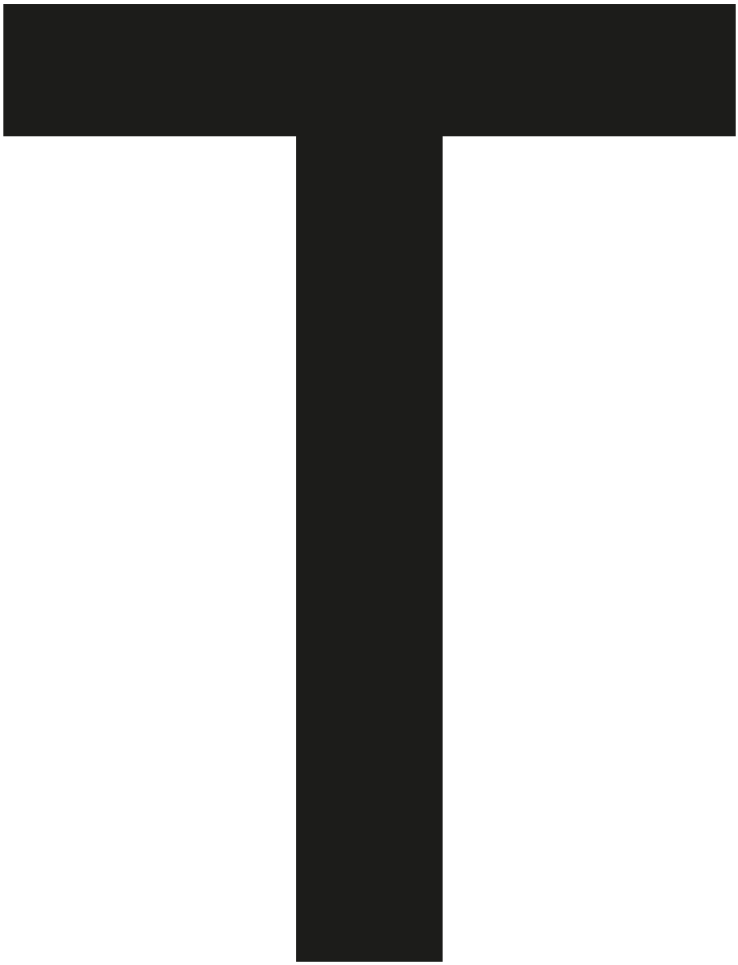

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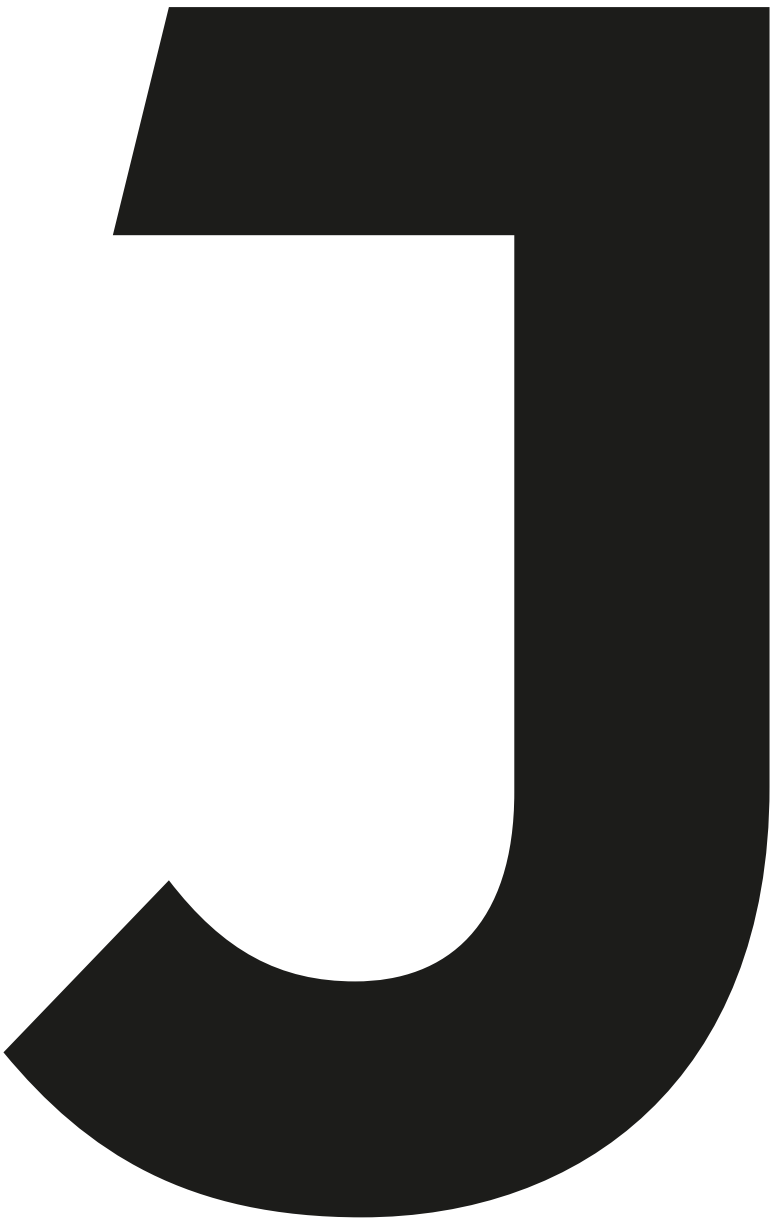

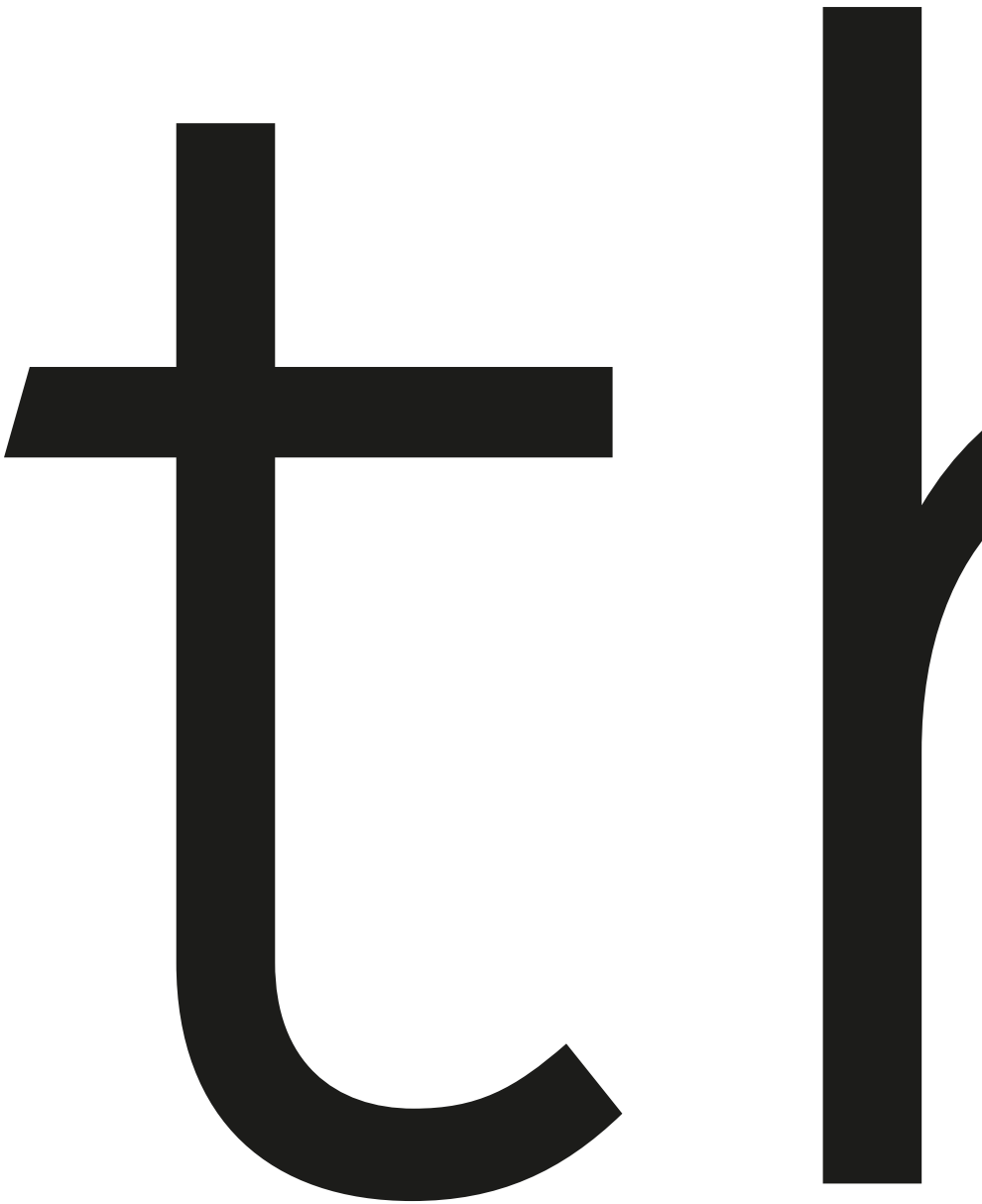

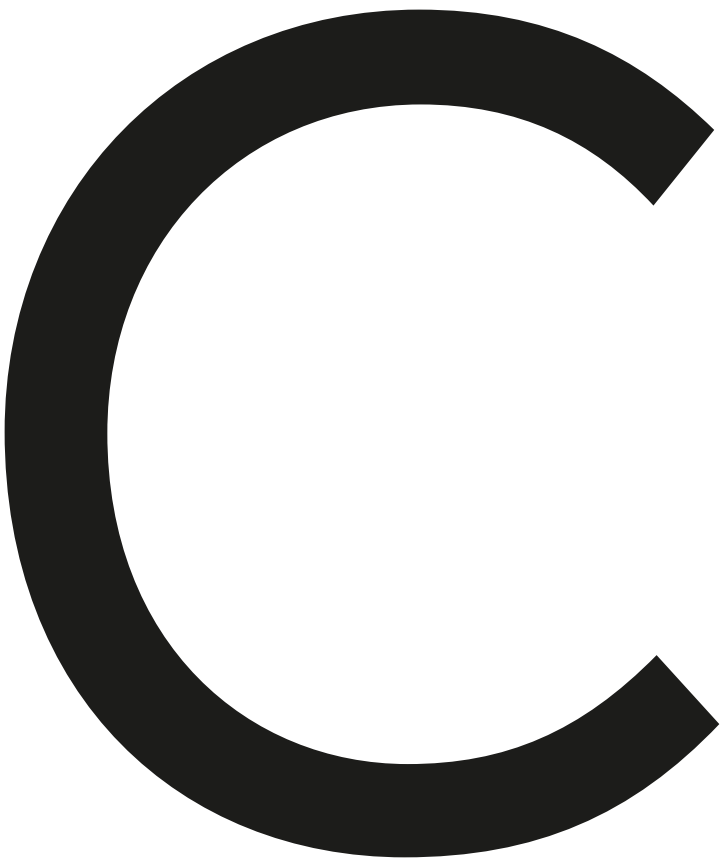

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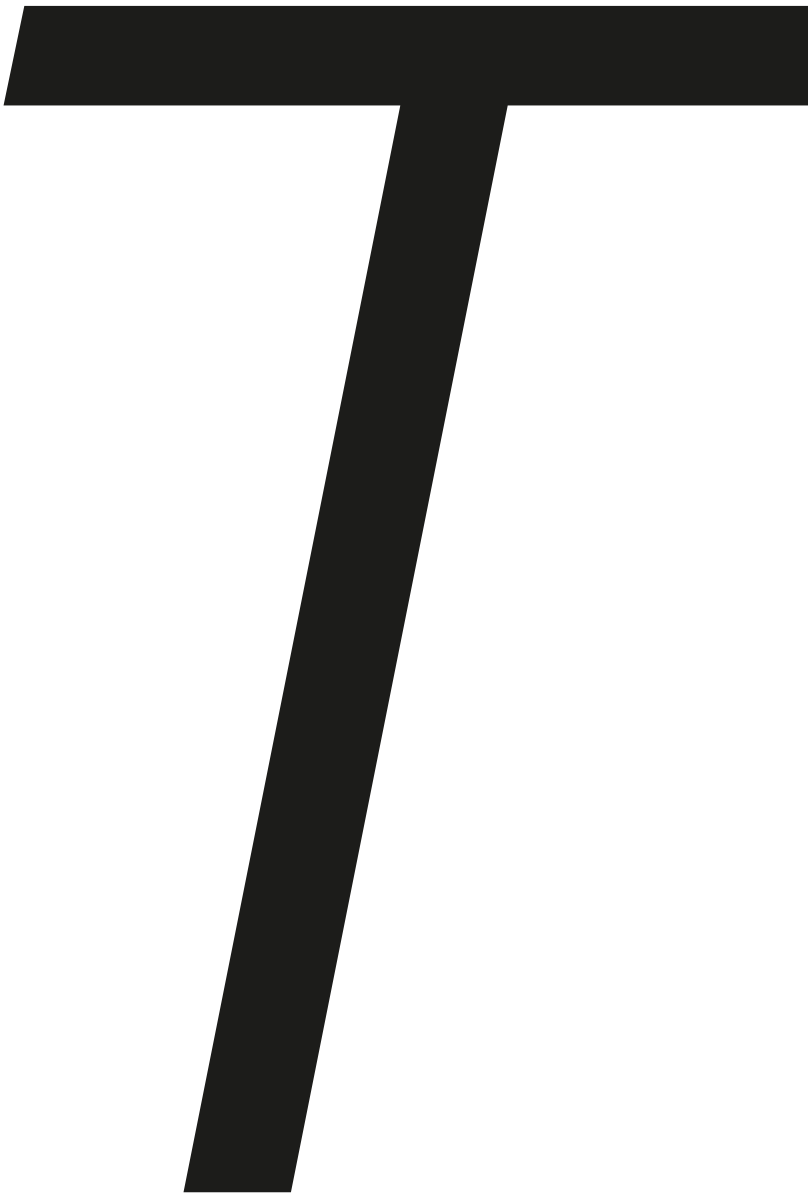
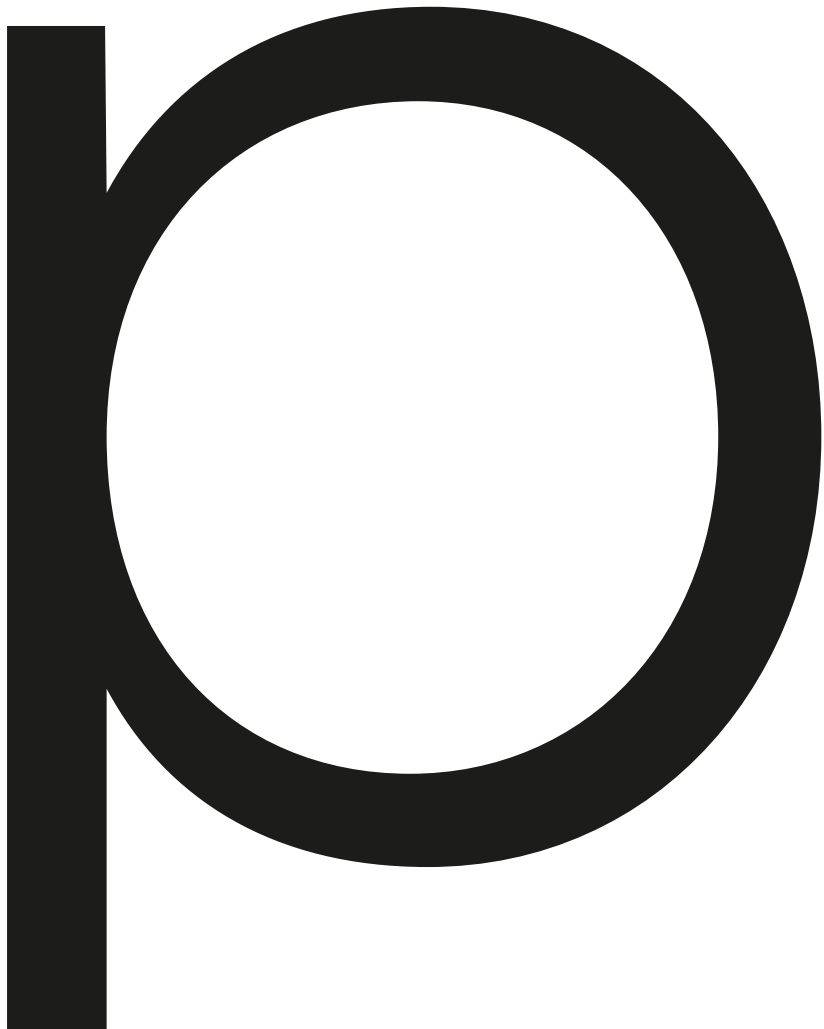
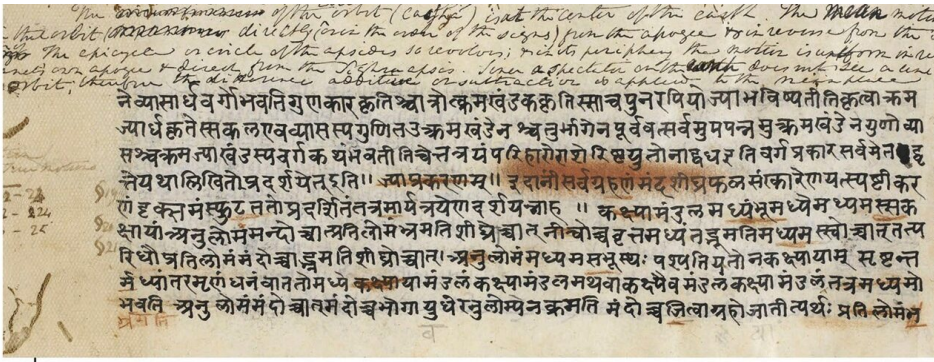
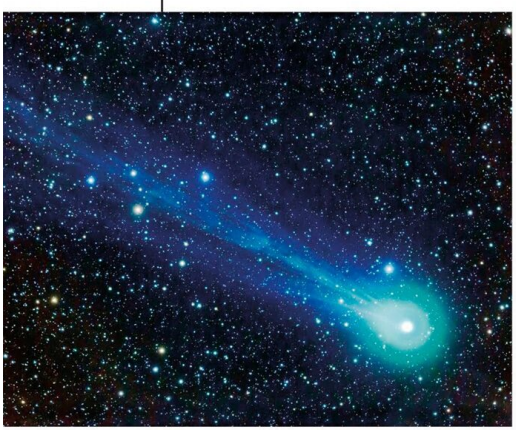
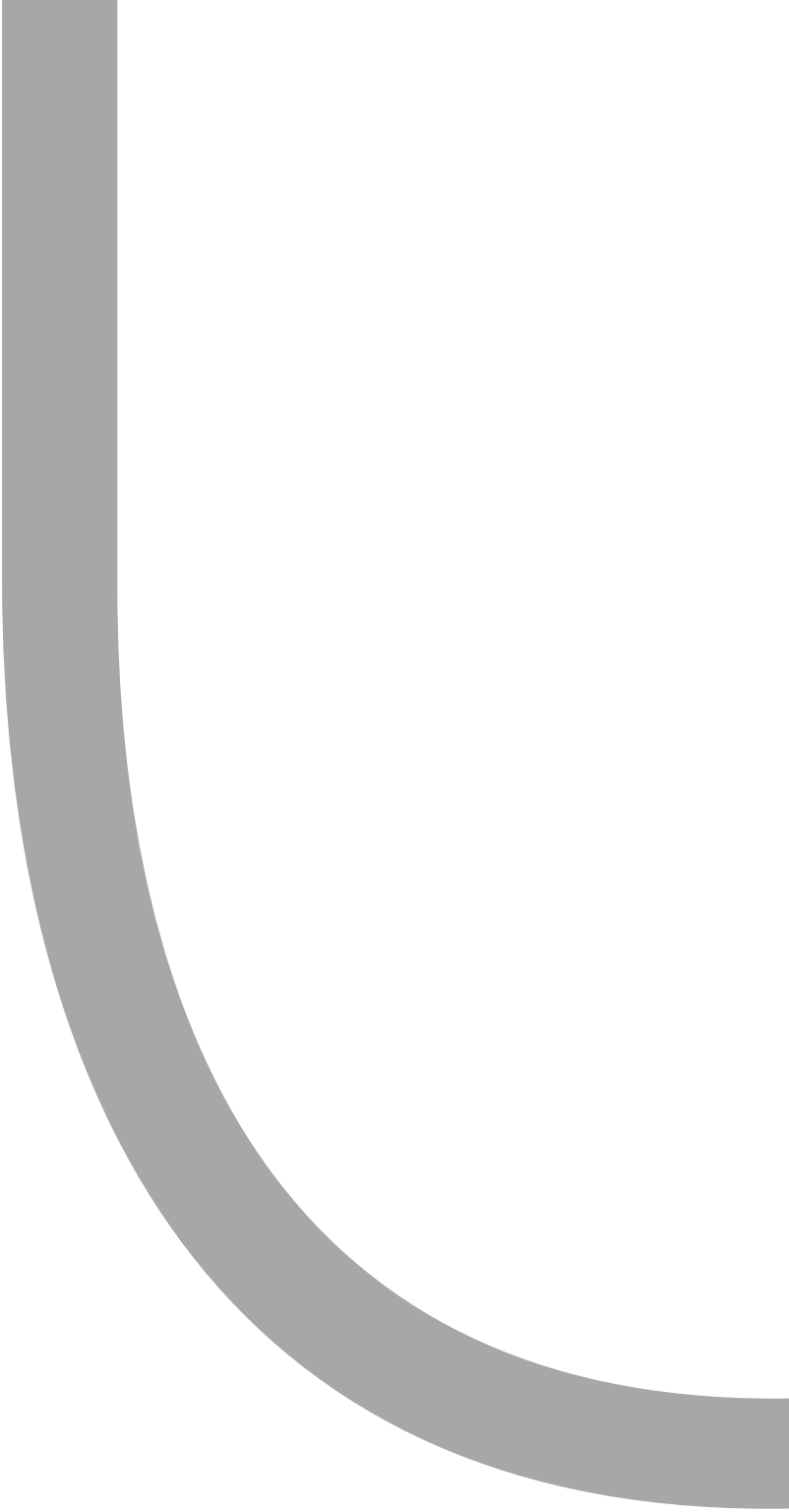


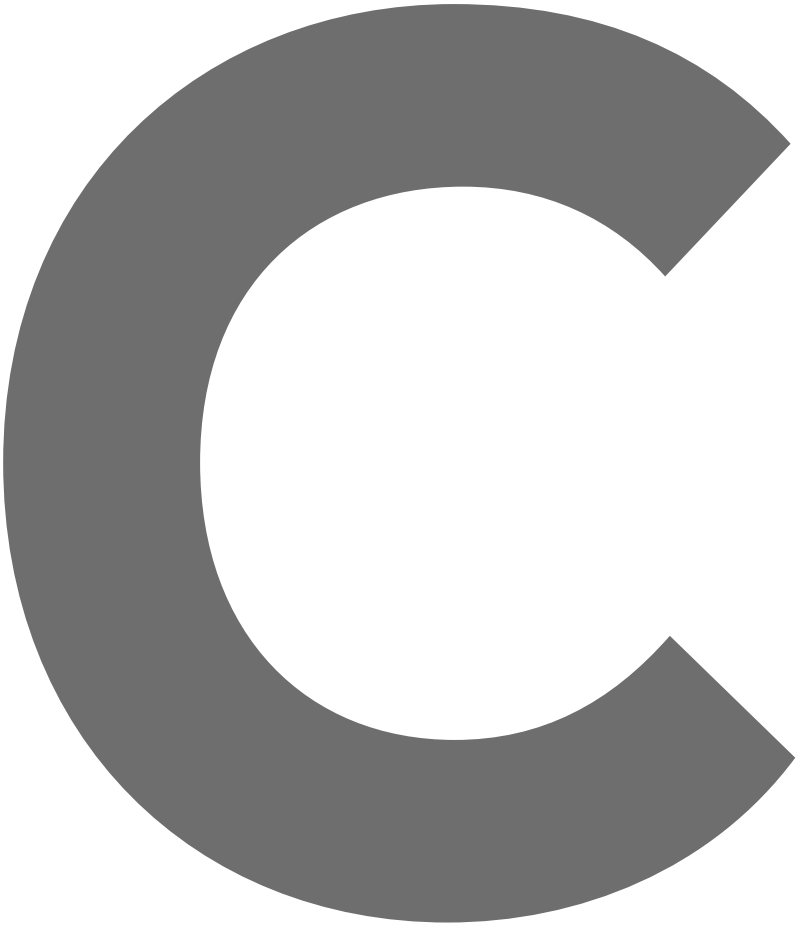


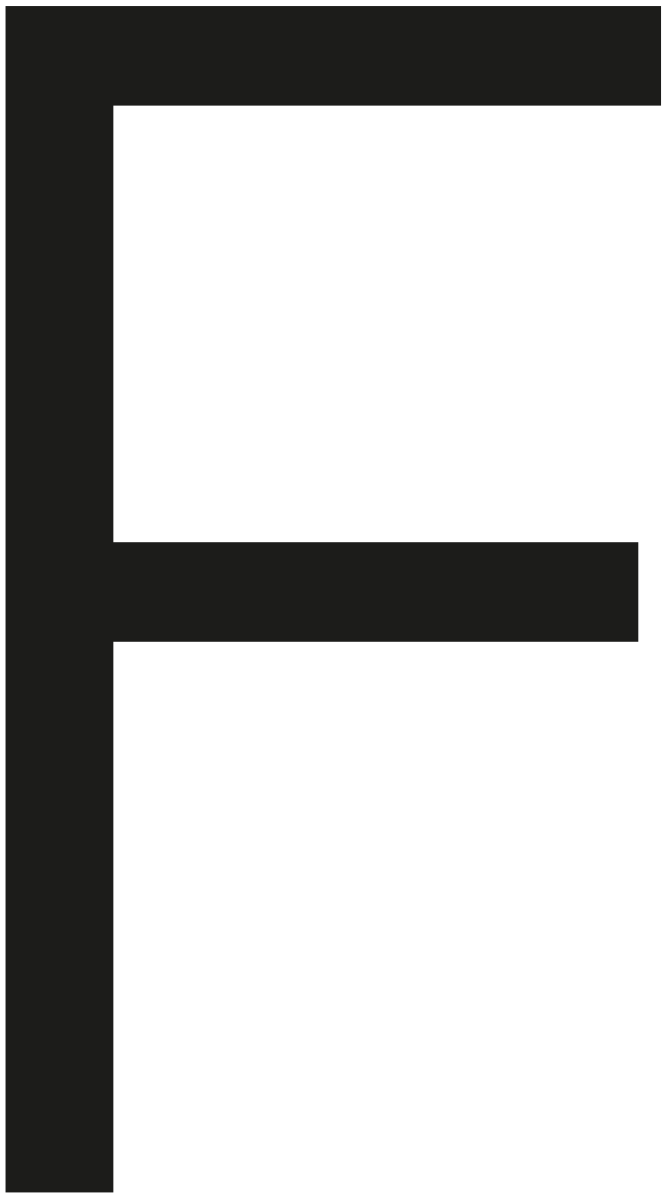


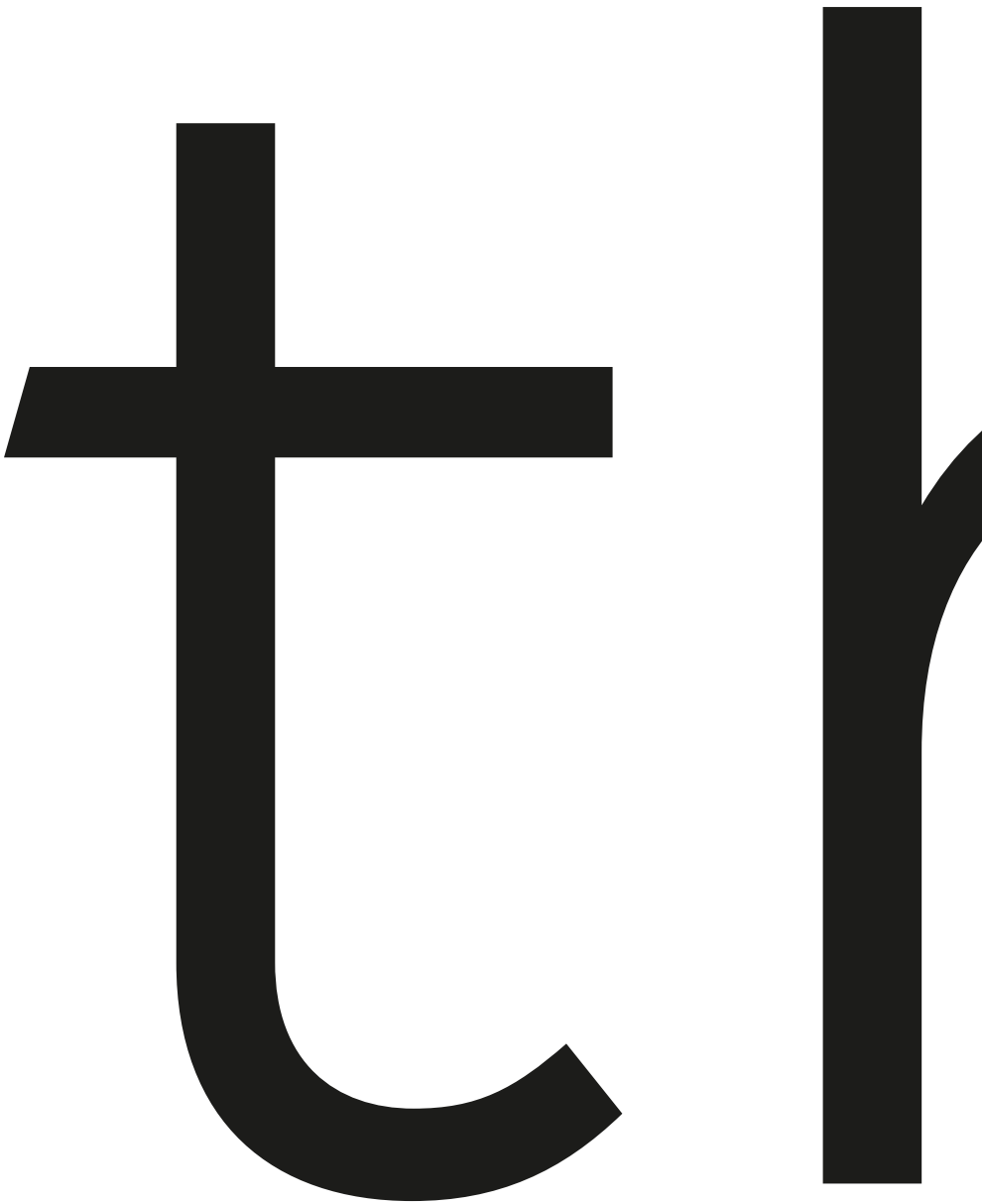
ने व्यासार्धवर्गो भवति गुणकारकृतिश्चानेक्रमखंडकृतिस्साच पुनरपियोज्या भविष्यतीतिकृत्वाक्रम
ज्यार्धकृतेस्तत्कलएवव्यासस्पृगुणितउक्रमखंडेन श्चानुभागेन पूर्ववत्सर्वमुपपन्नमुक्रमखंडेनयुणो ज्या
सश्चक्रमज्याखंडस्यवर्गकयंभवतीतिचेन्नत्र्यंपरिहारेणशेषिष्ययुनोनाद्धरतिवर्गप्रकारसर्वमनुद्दे
श्यंथालिखितोप्रदर्शयेत्इति॥ ज्याप्रकरणम्॥ इदानीसर्वग्रहणांमंदशीघ्रफलसंस्कारेणयत्स्पष्टीकर
णंदृक्तुल्यंस्फुटंततोग्रदर्शनंतत्रमार्गमेनयेनदर्शयन्नाह ॥ कक्ष्यामंडलमध्येभूमध्येमध्यमस्तत्क
क्षायोग्यानुलोममन्दोच्चात्प्रतिलोममन्यमतिशीघ्रोच्चात्तुल्योच्चदृक्समध्यंनेदृग्मतिमध्यमस्वोच्चात्तत्प
रिधौग्रतिलोमंमंदोच्चाद्गमतिशीघ्रोच्चात्। अनुलोमंमध्यमसभूस्थः पश्यतियुनोनकक्ष्यायाम् सदृश्यन्त
मेध्यांतरमृणंधनंचांतरोमध्येकक्ष्यायांमंडलंकक्ष्यैवमंडलमथवाकक्ष्यैवमंडलंकक्ष्यामेउलंतत्रमध्यमो
भवति अनुलोममंदोच्चात्मंदोच्चभोगायुधेरनुलोम्यनक्रमतिमंदोच्चजित्वाग्रहोजातीत्यर्थः प्रतिलोमेन

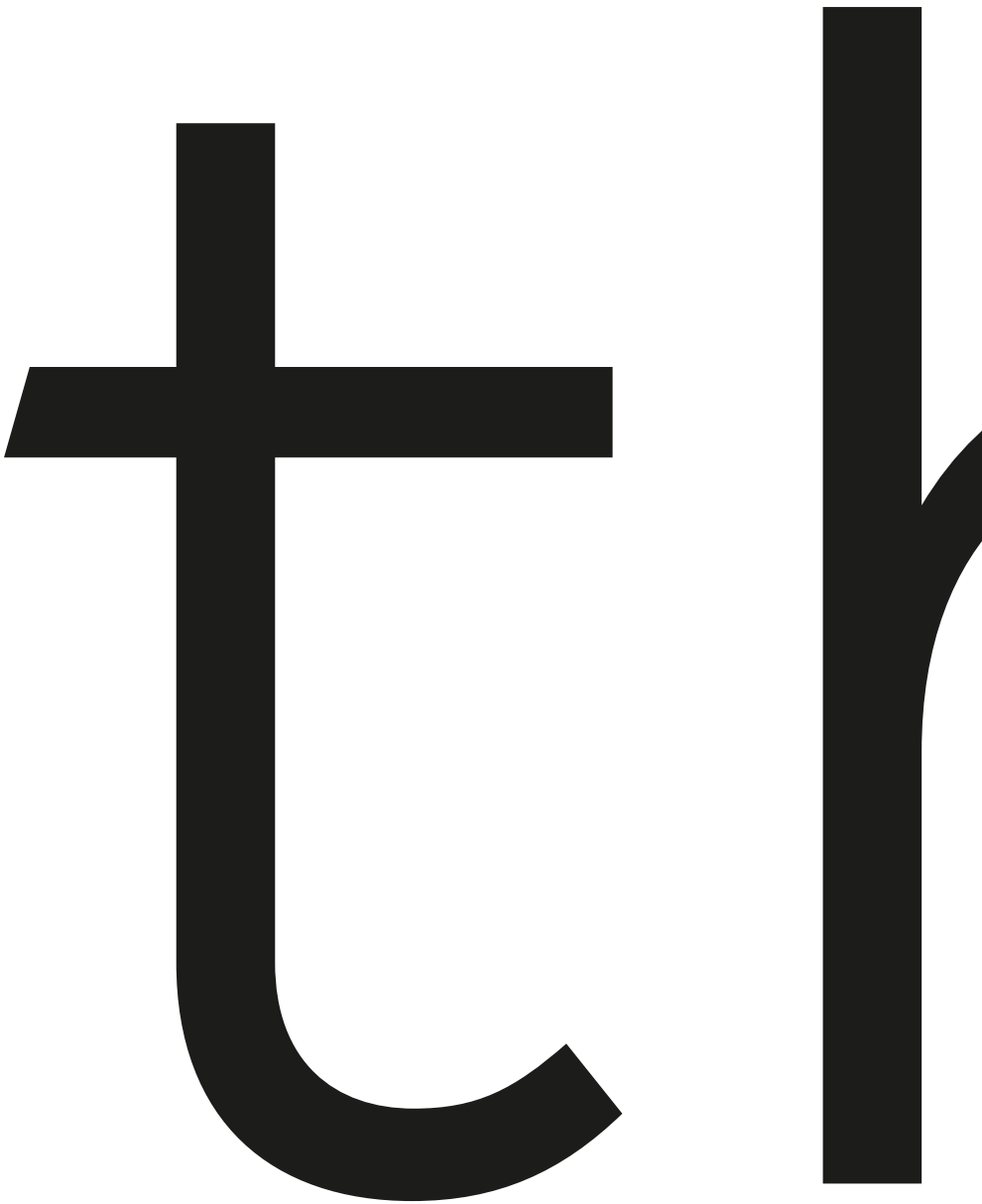


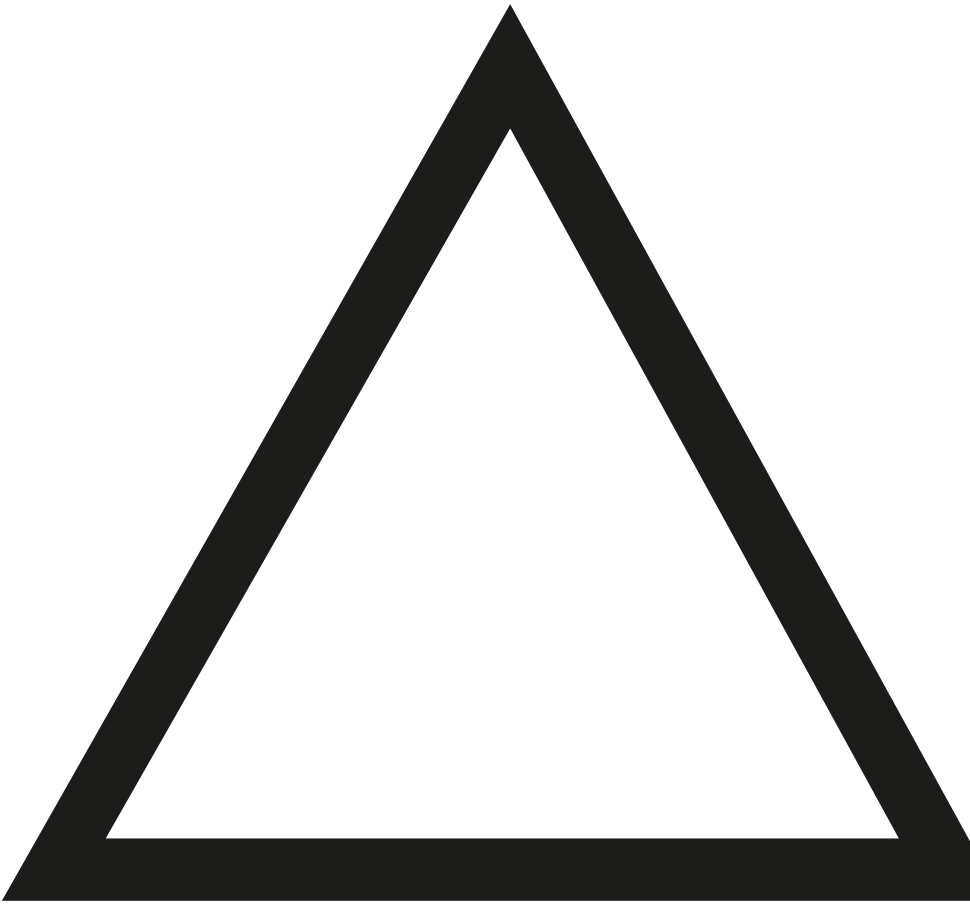


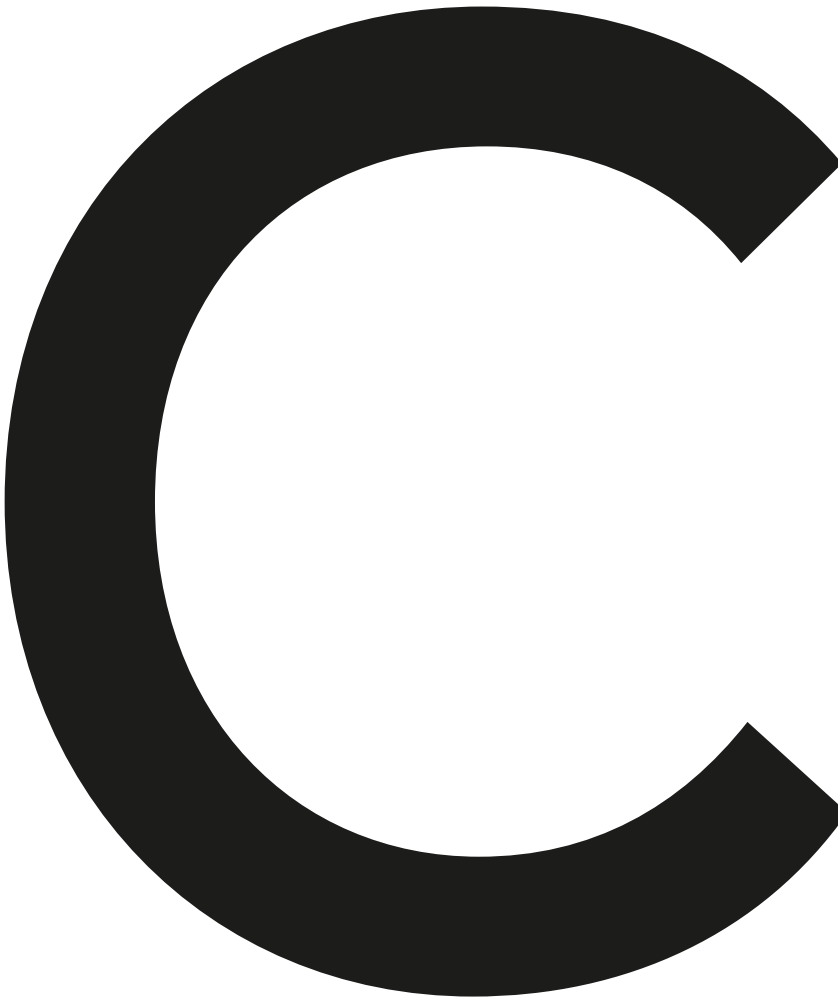












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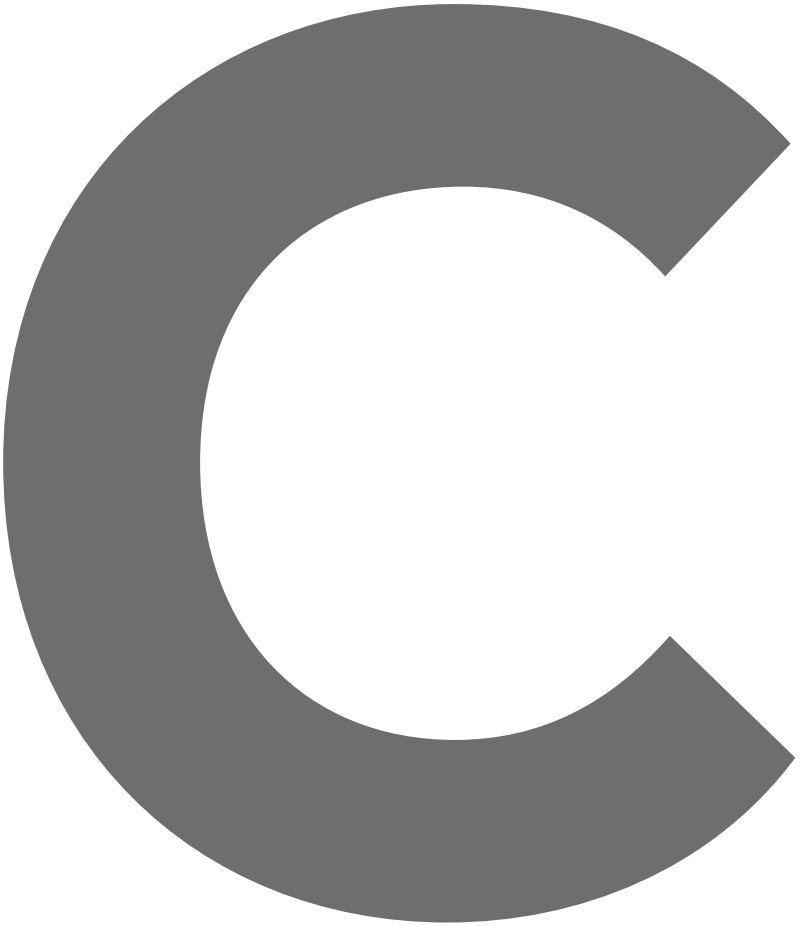

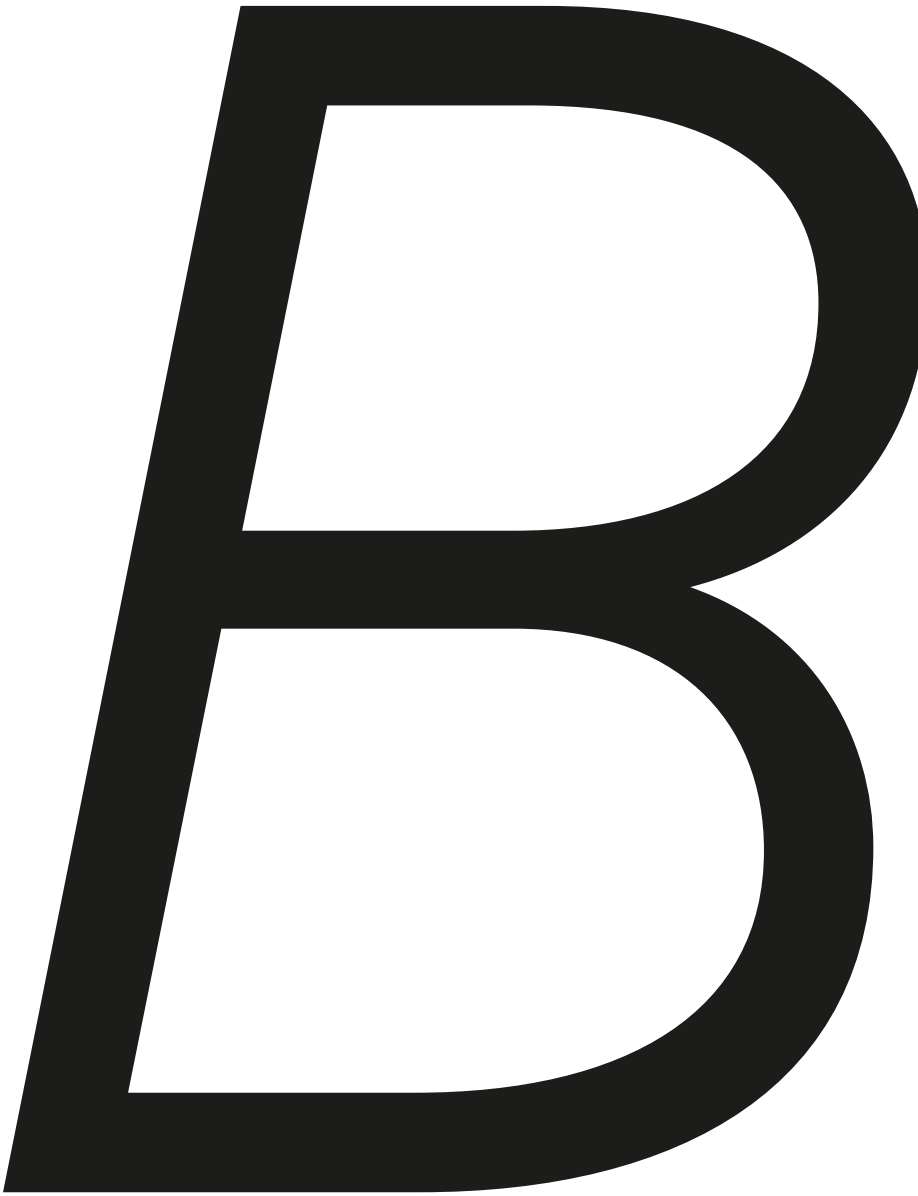

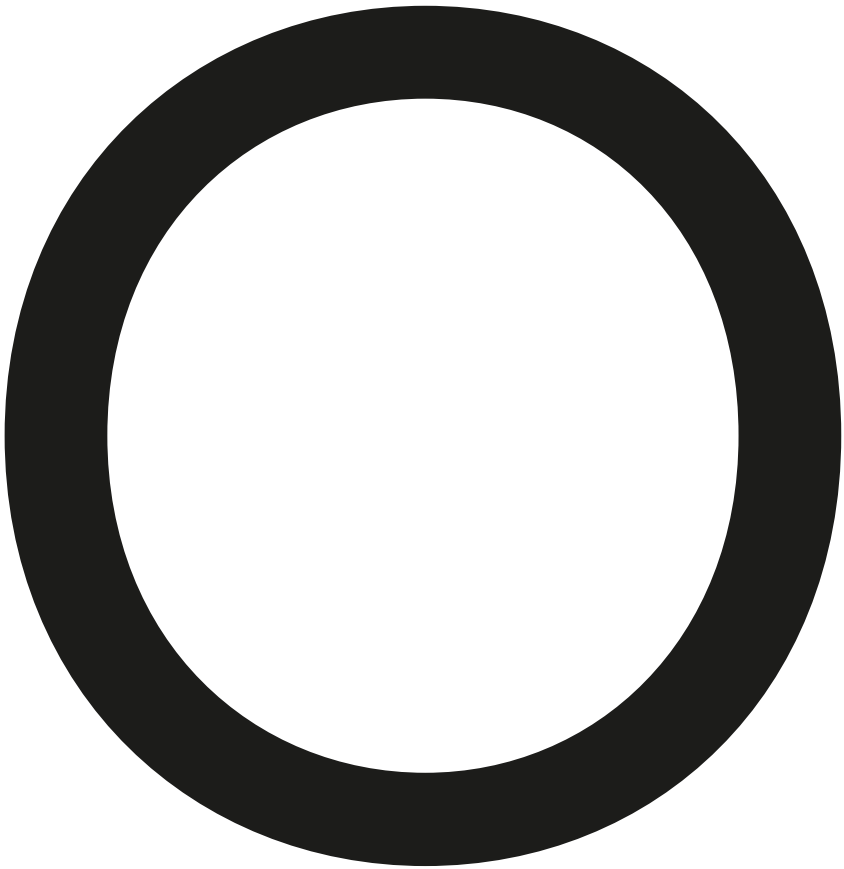

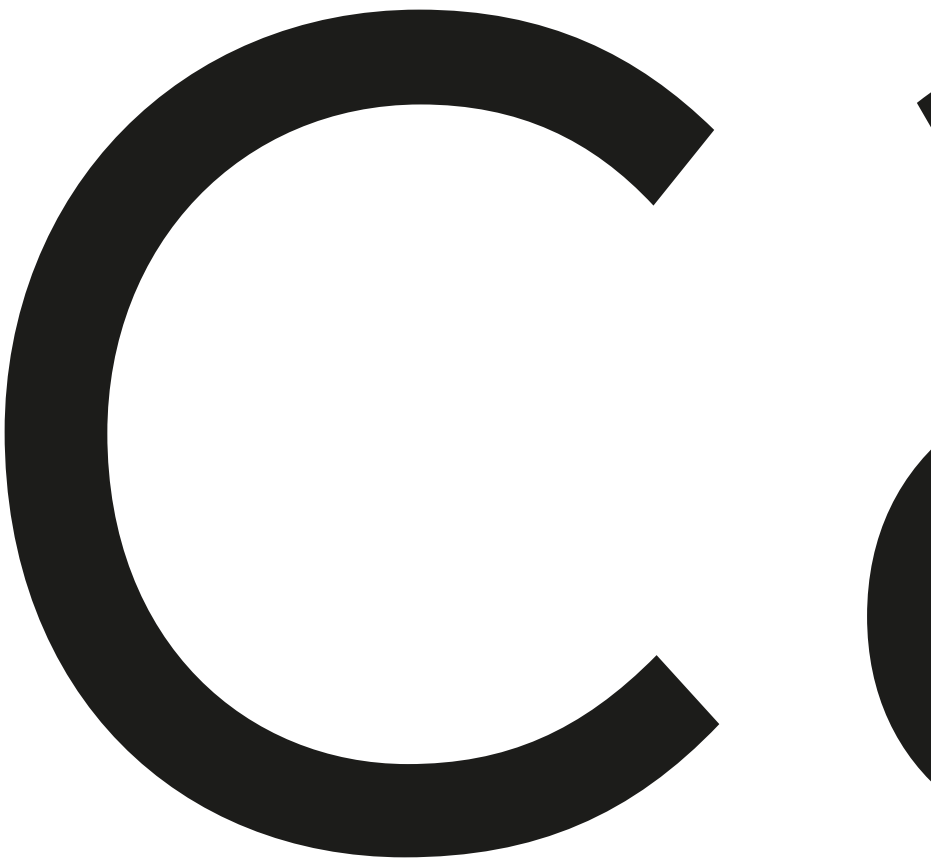

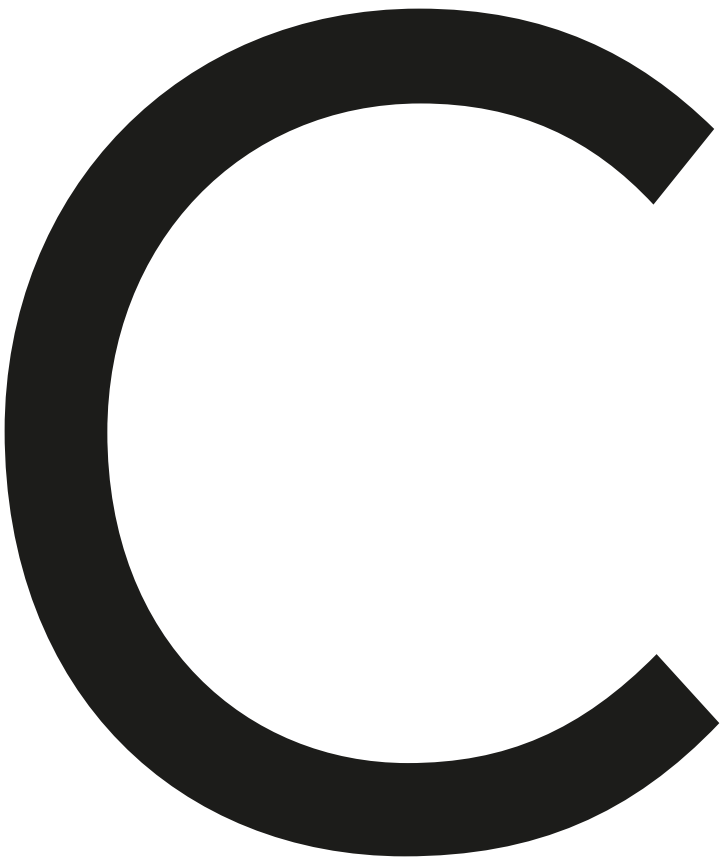

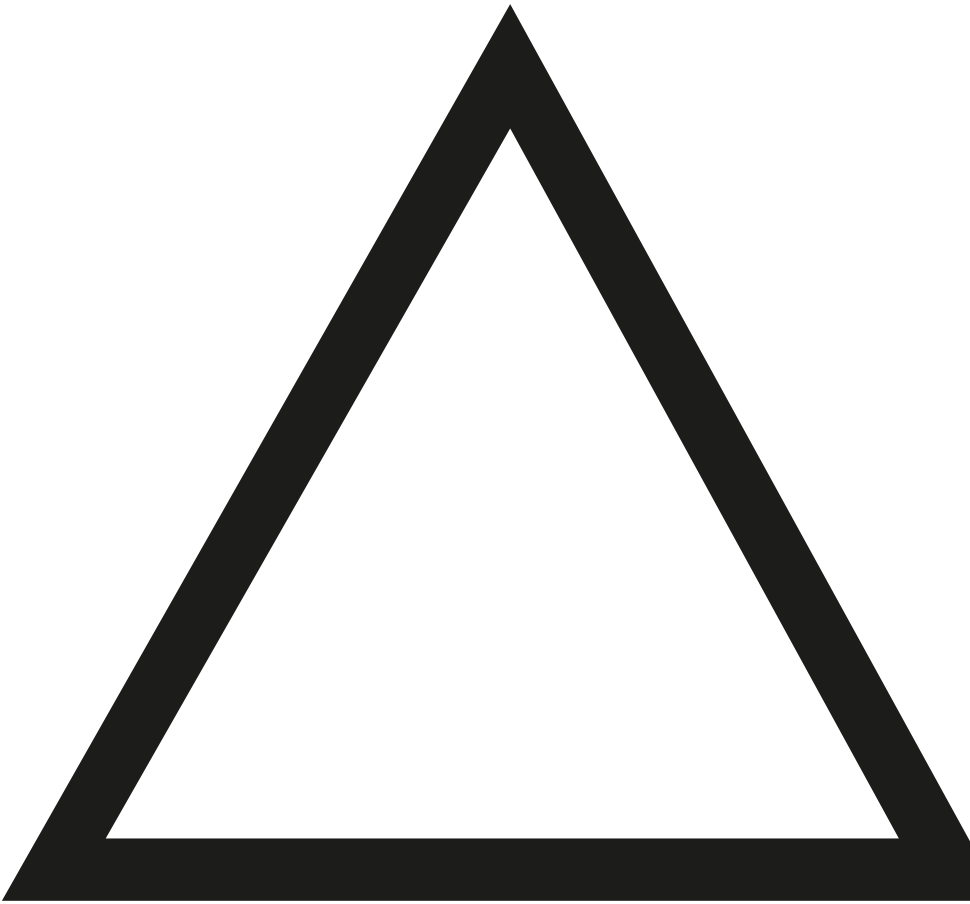

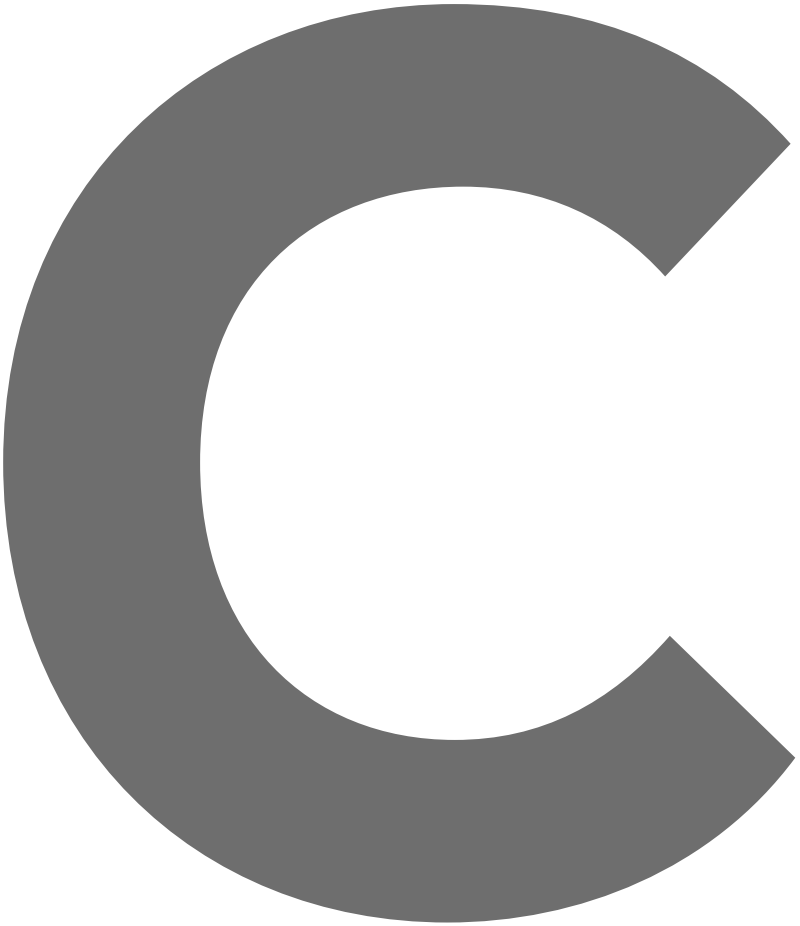

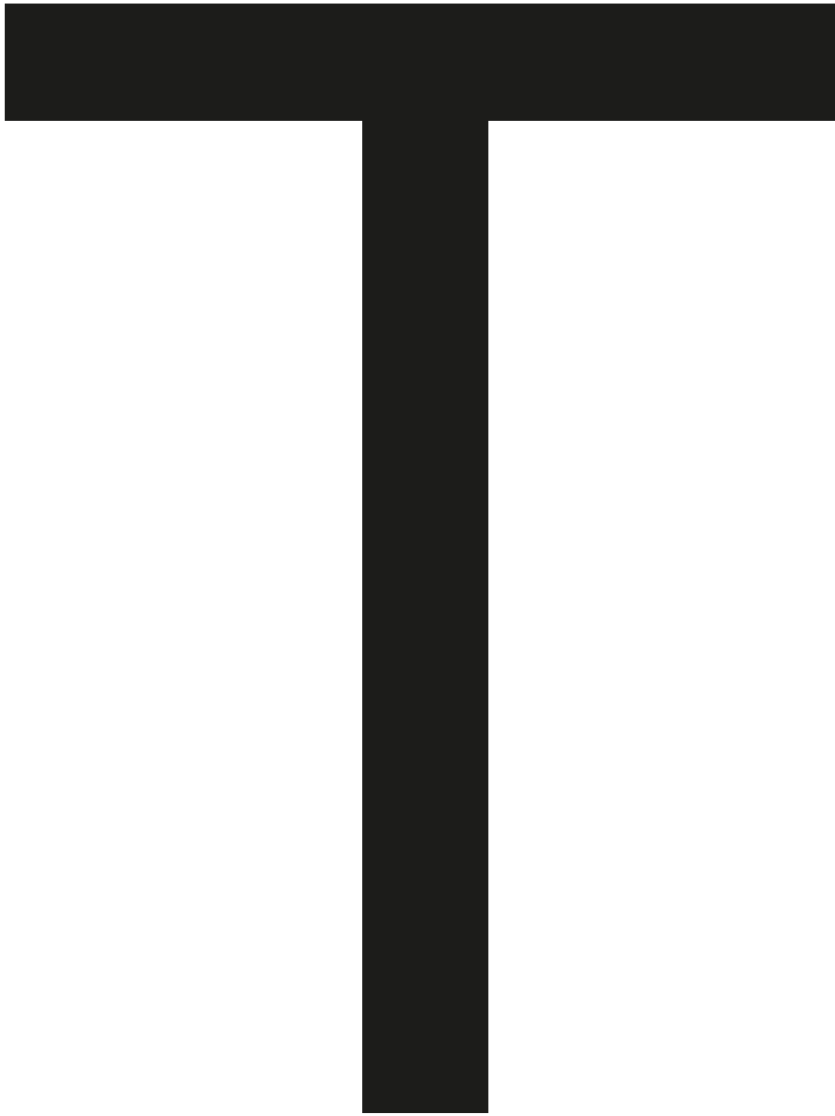

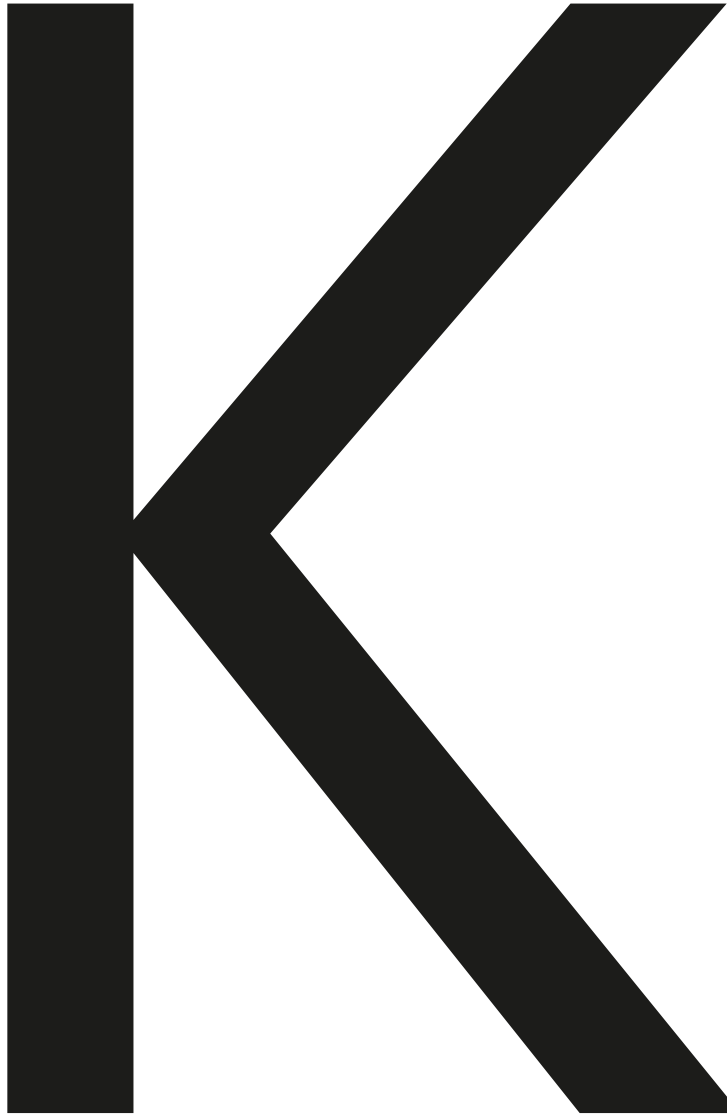

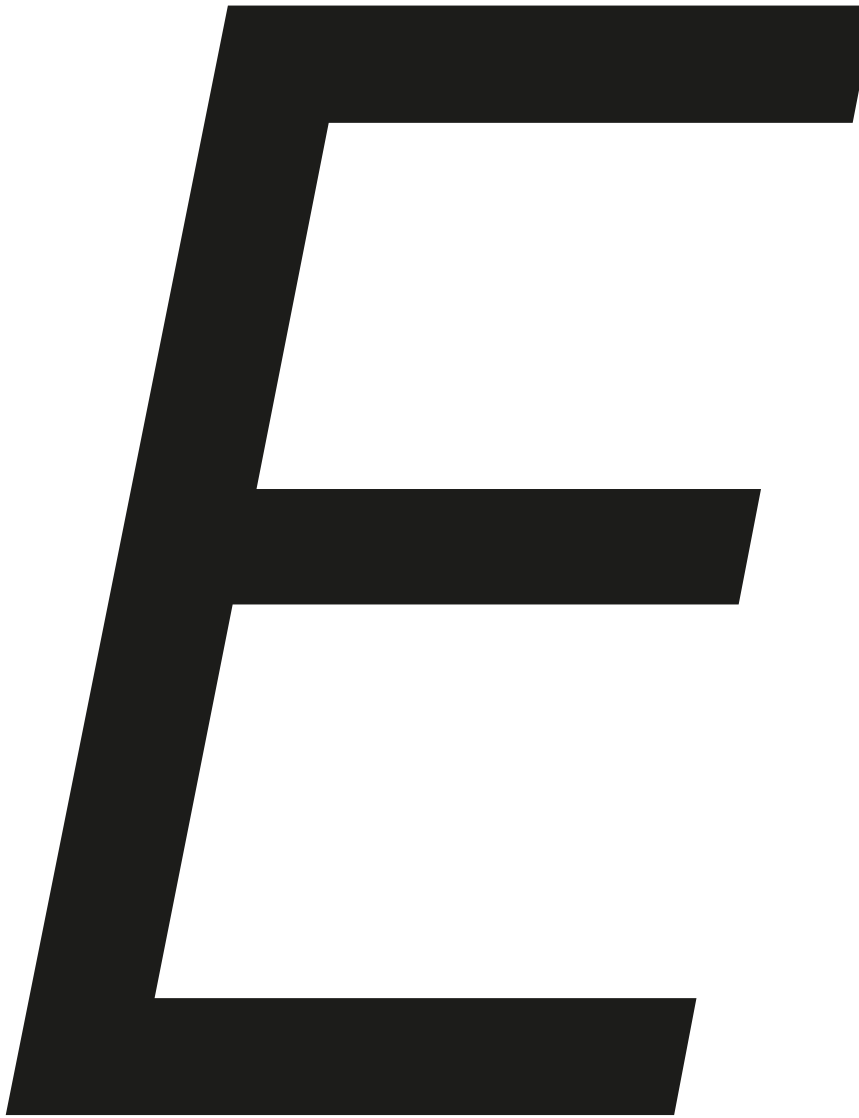

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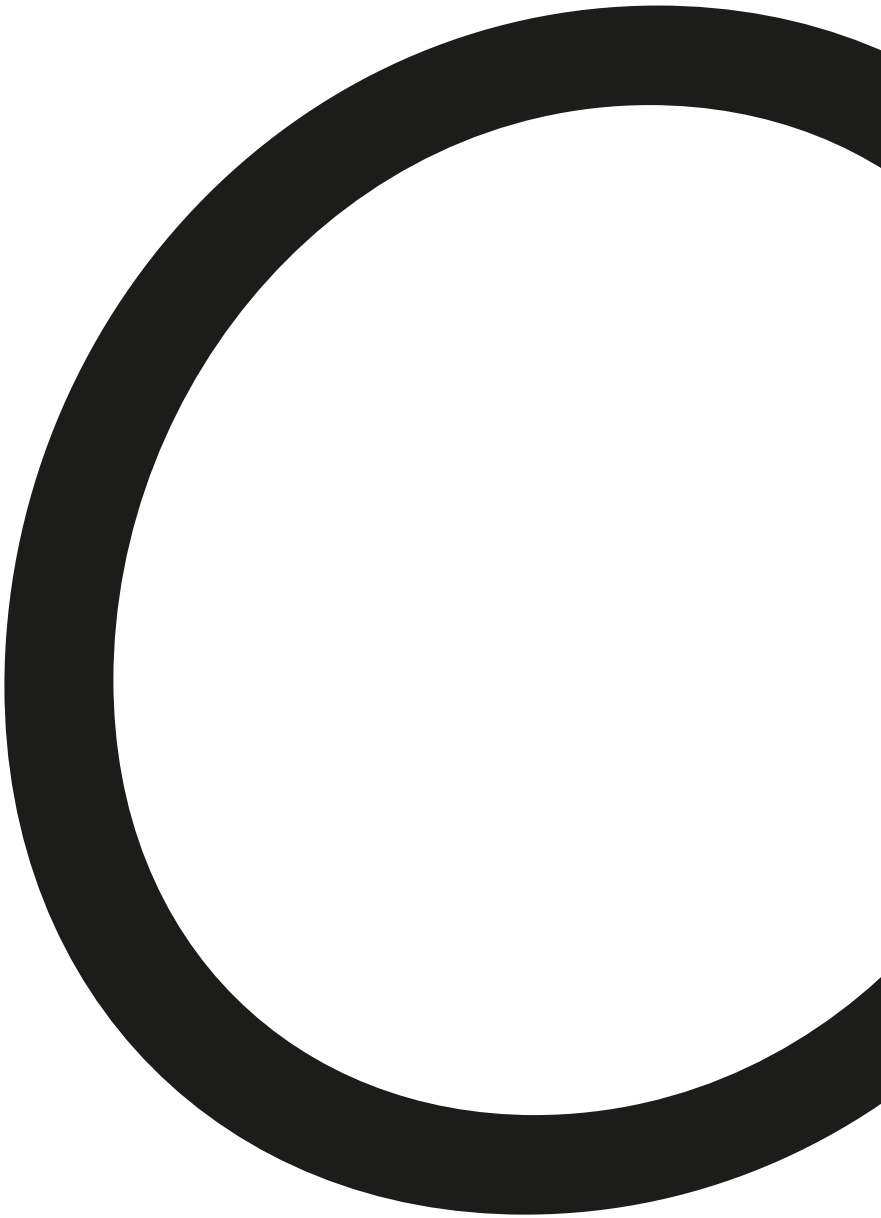

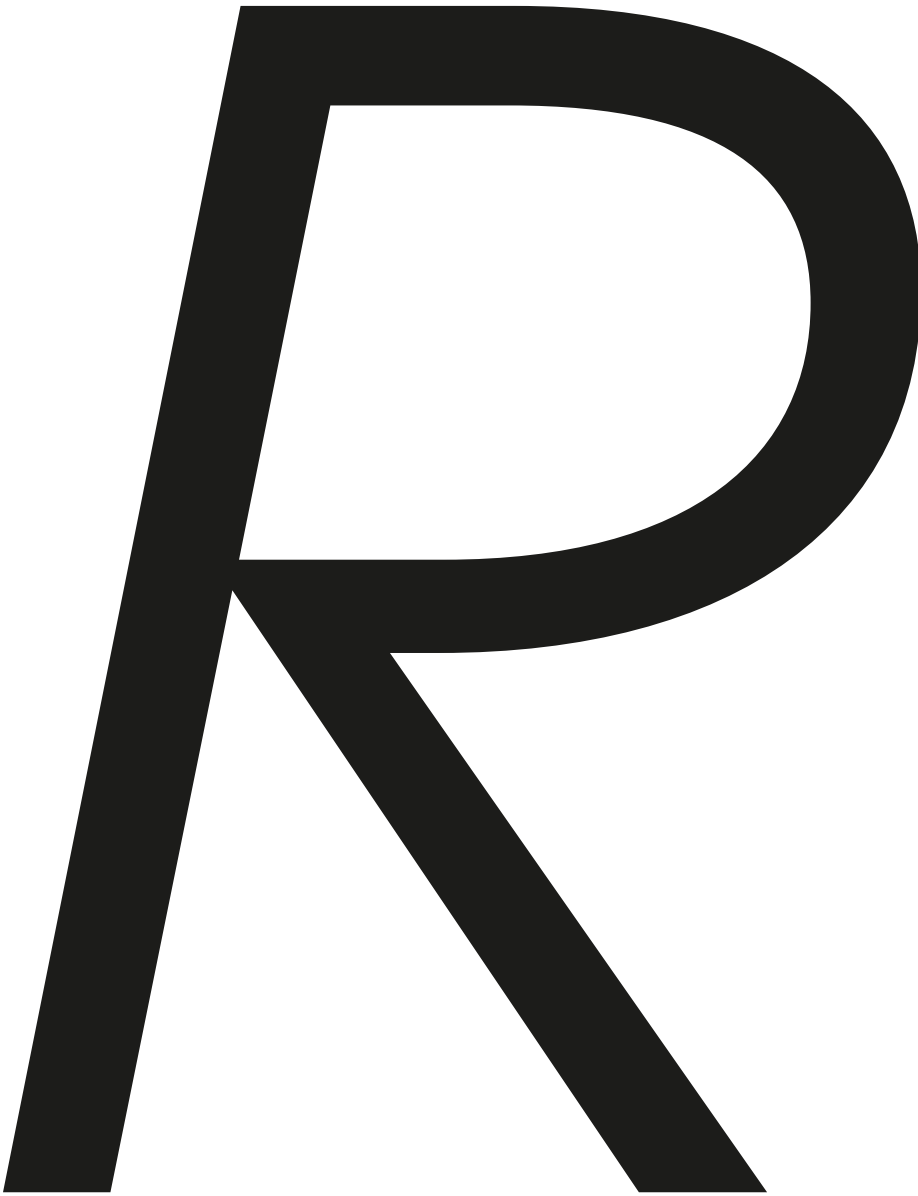

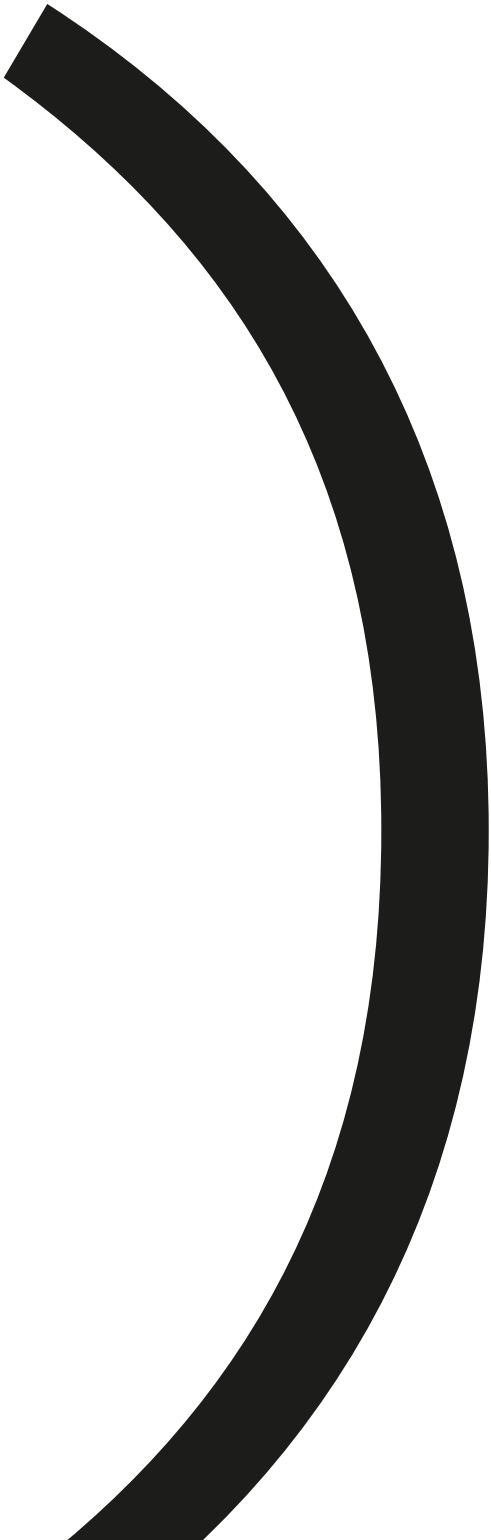

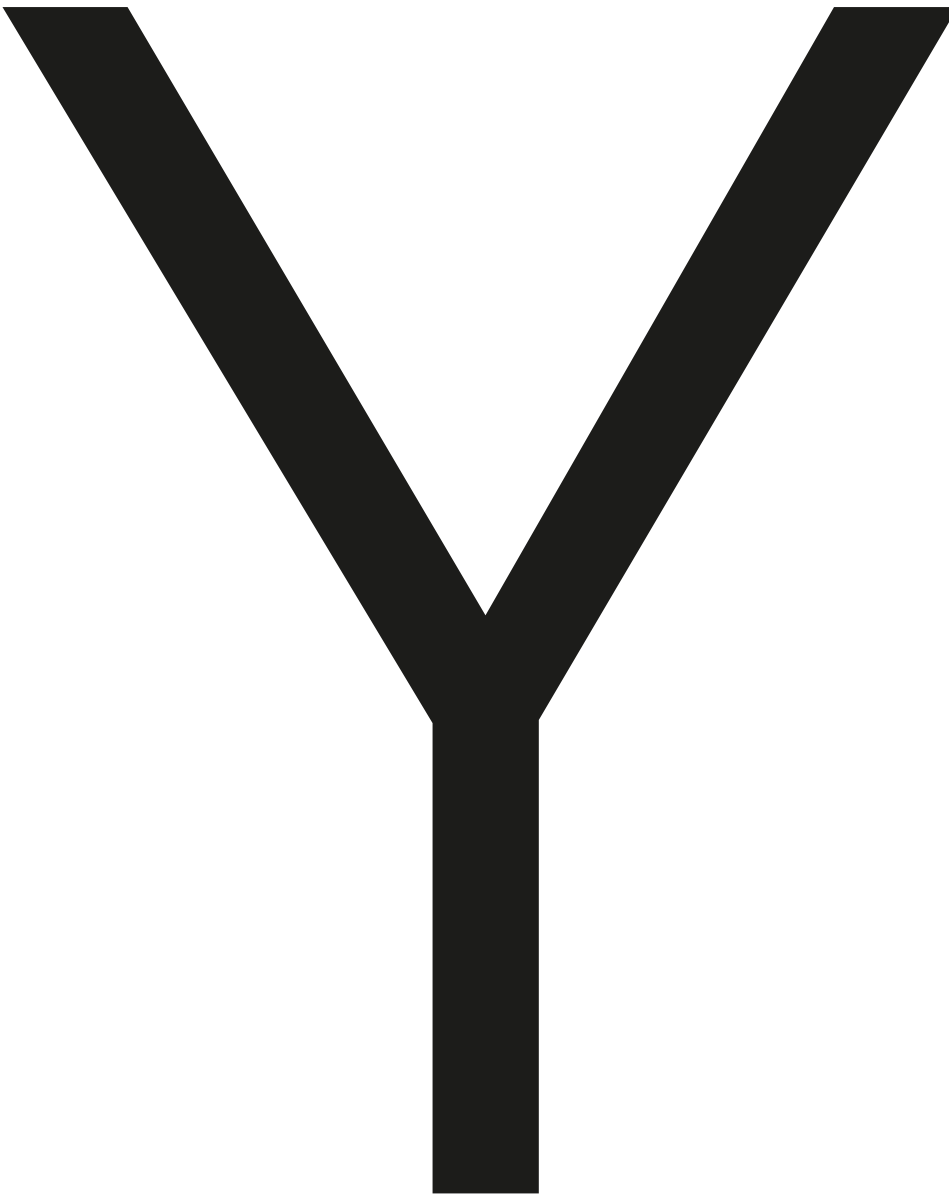

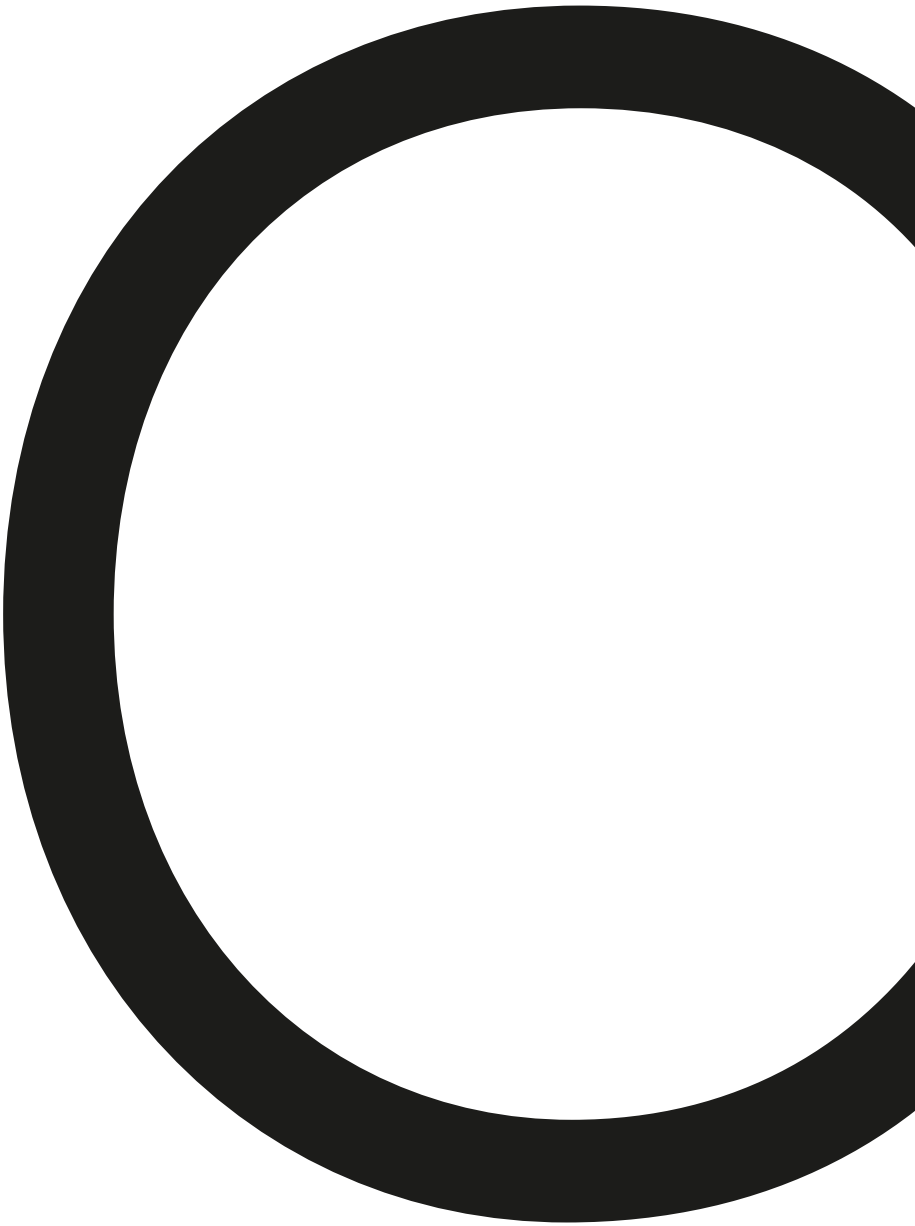

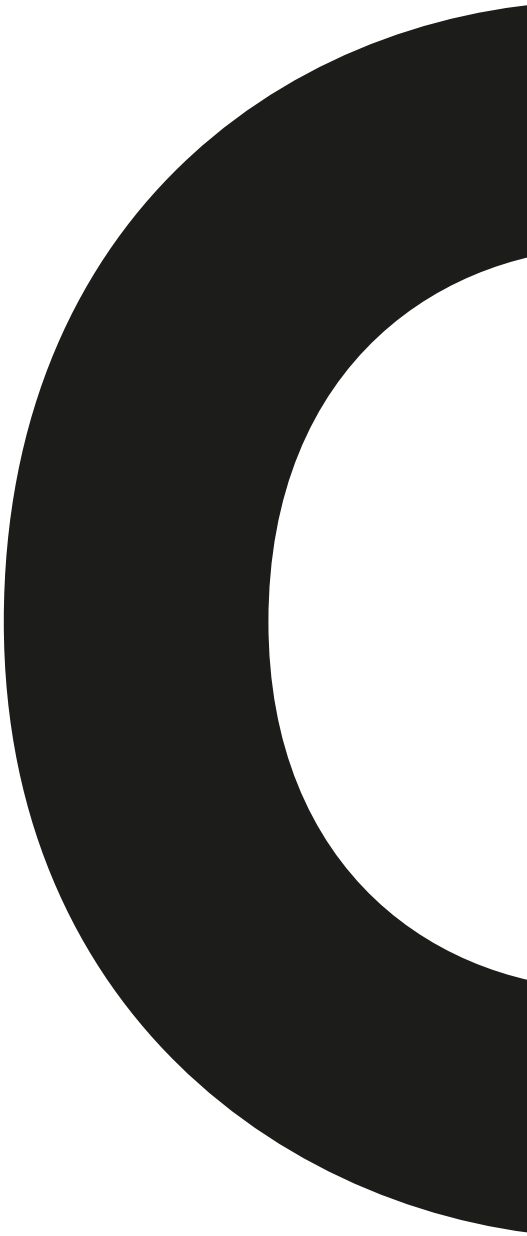

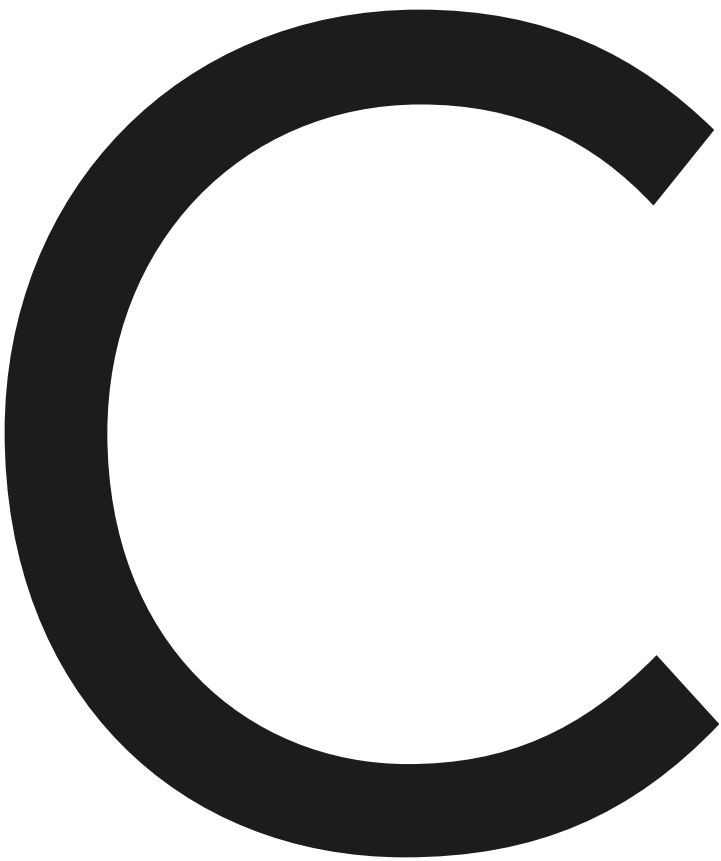

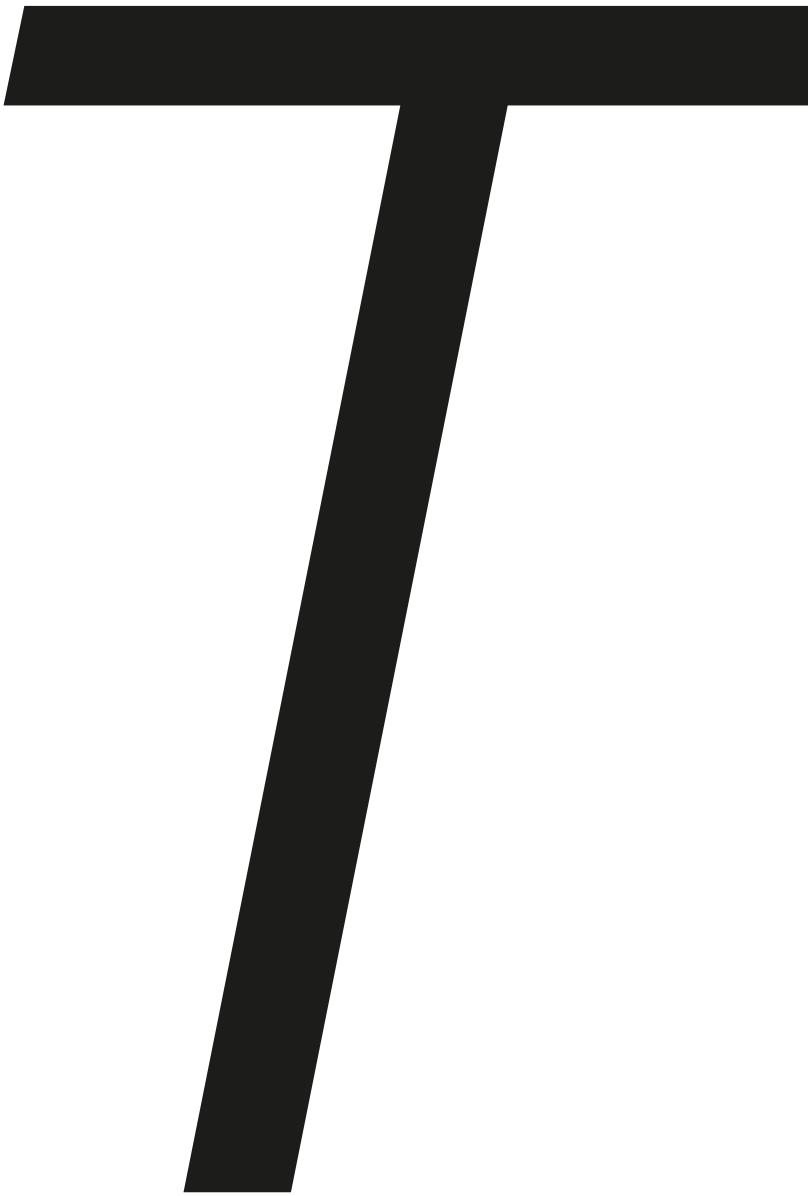

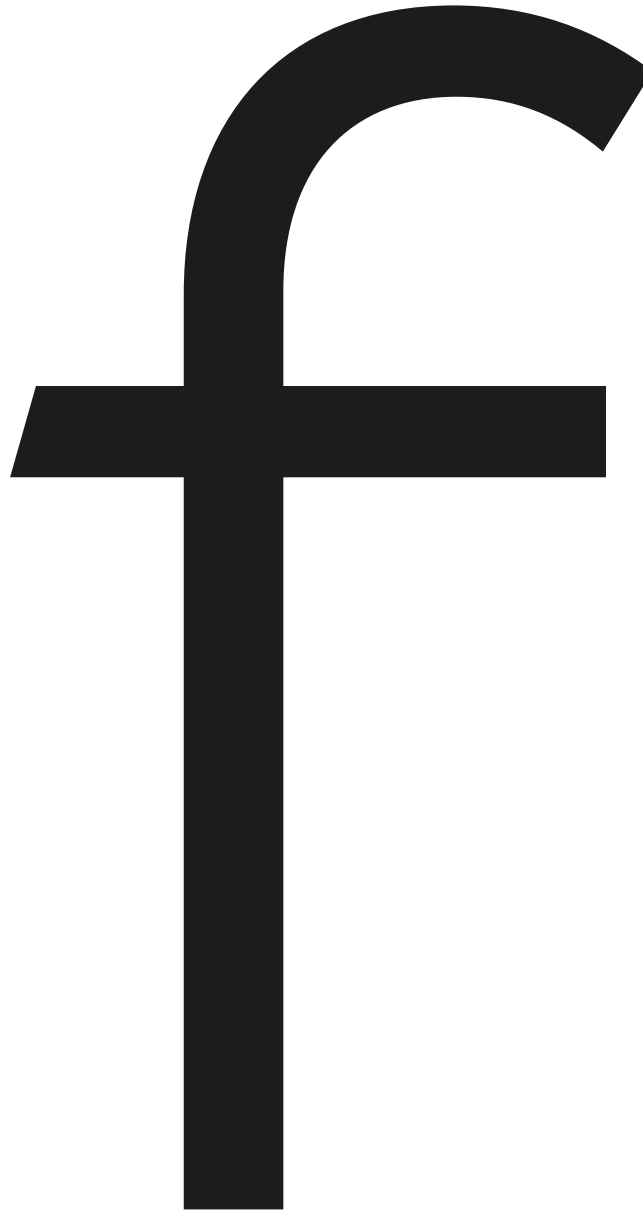

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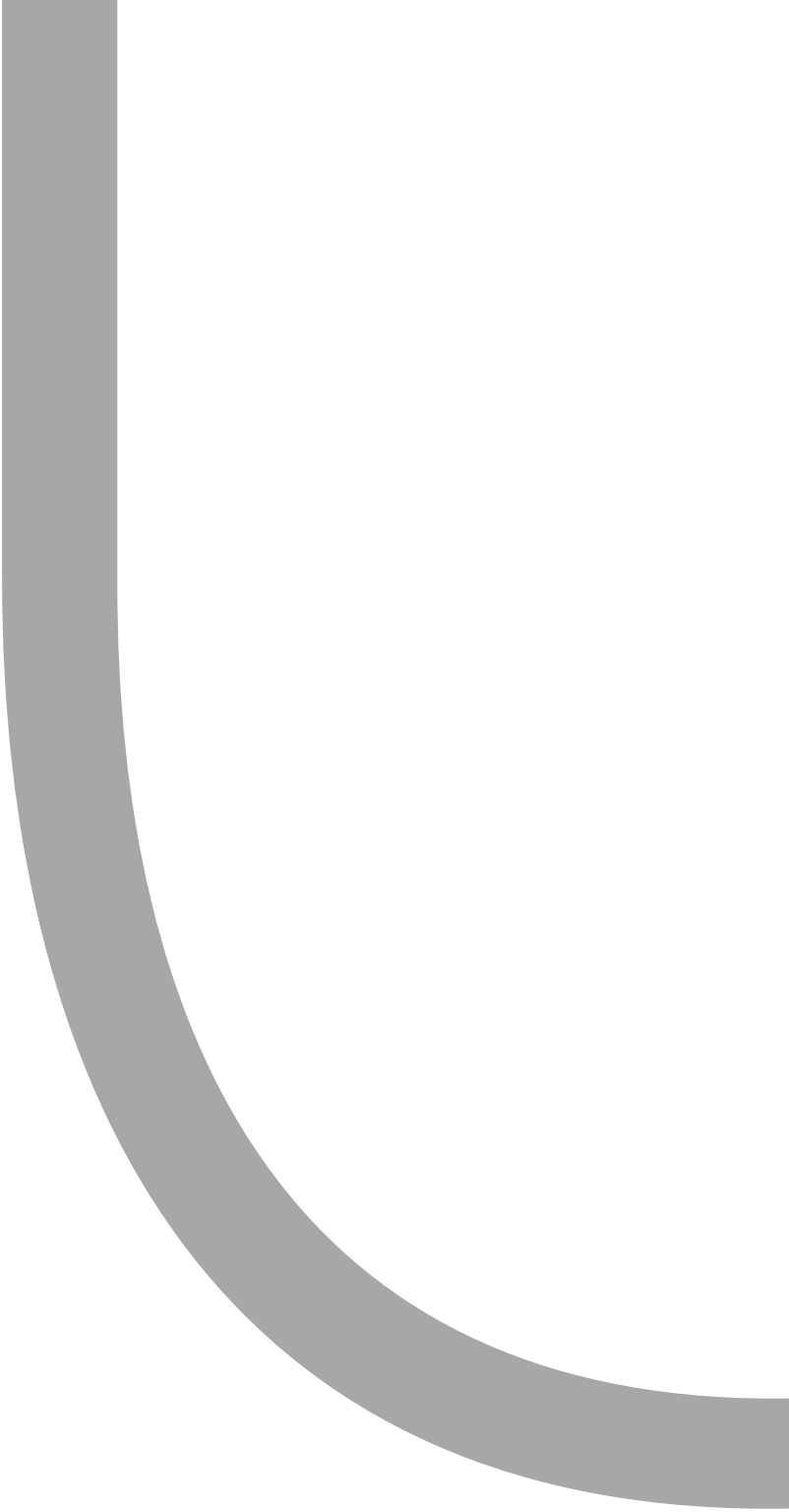

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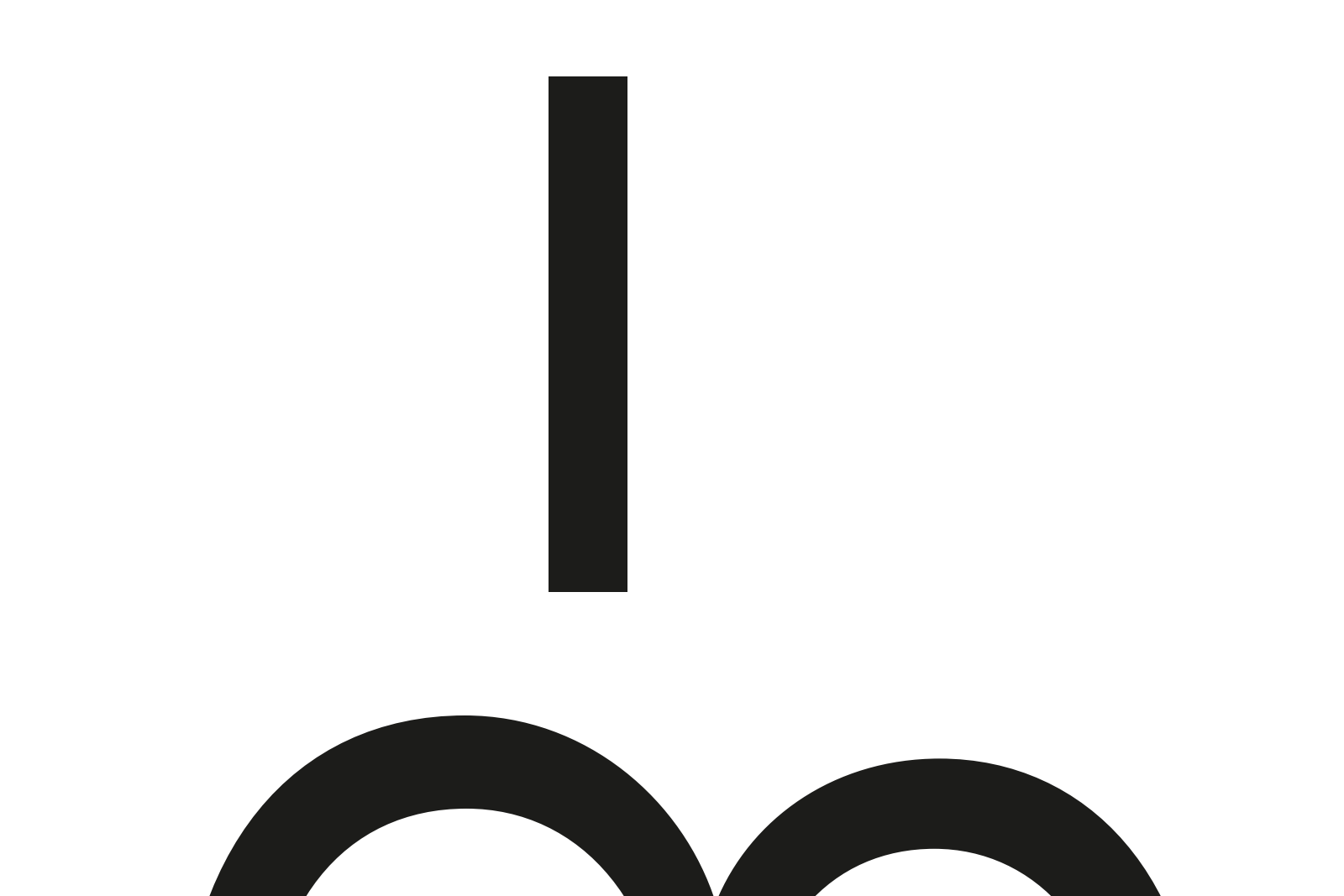

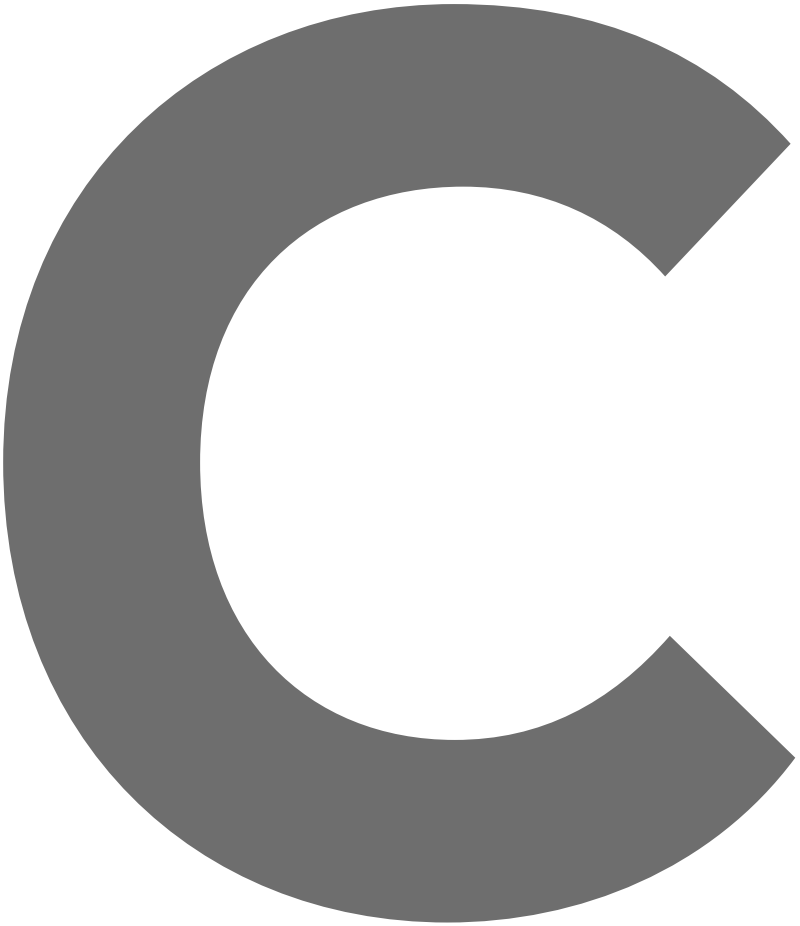

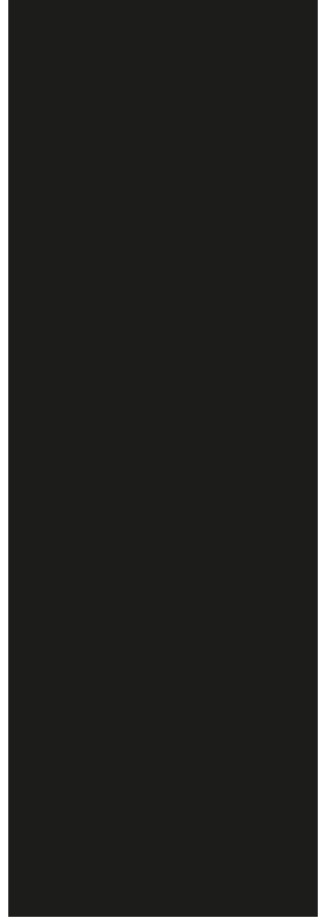

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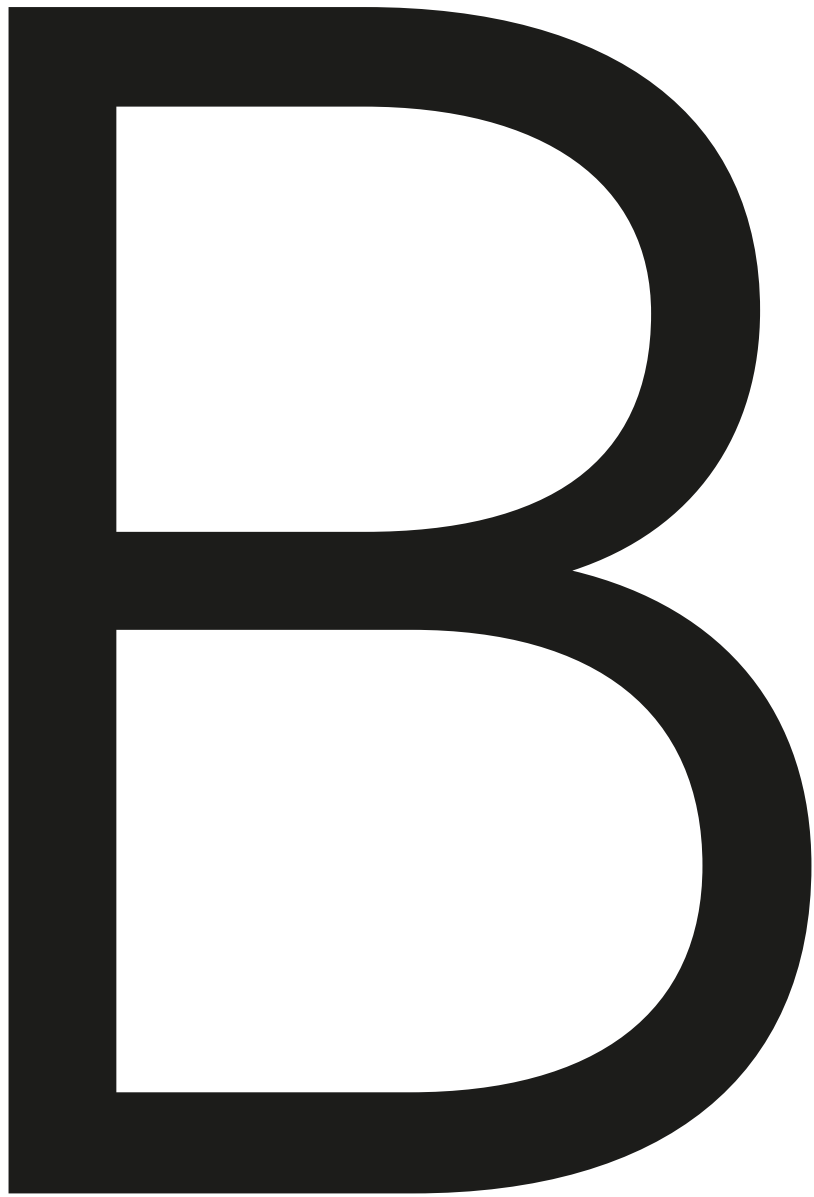

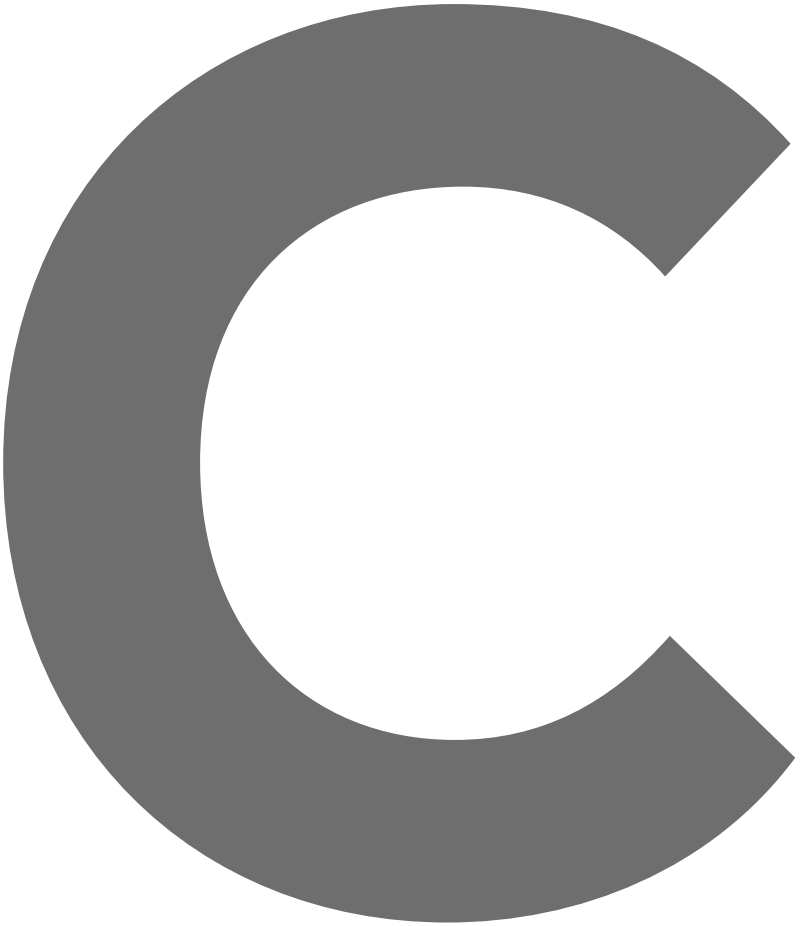

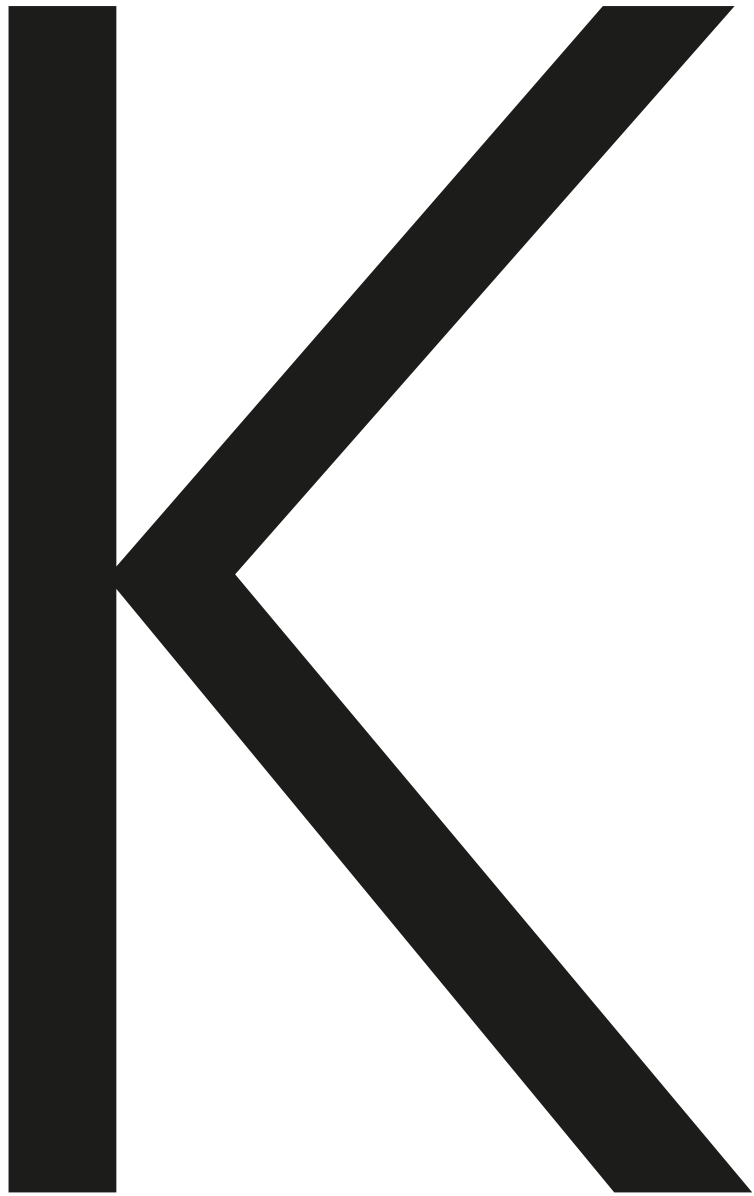

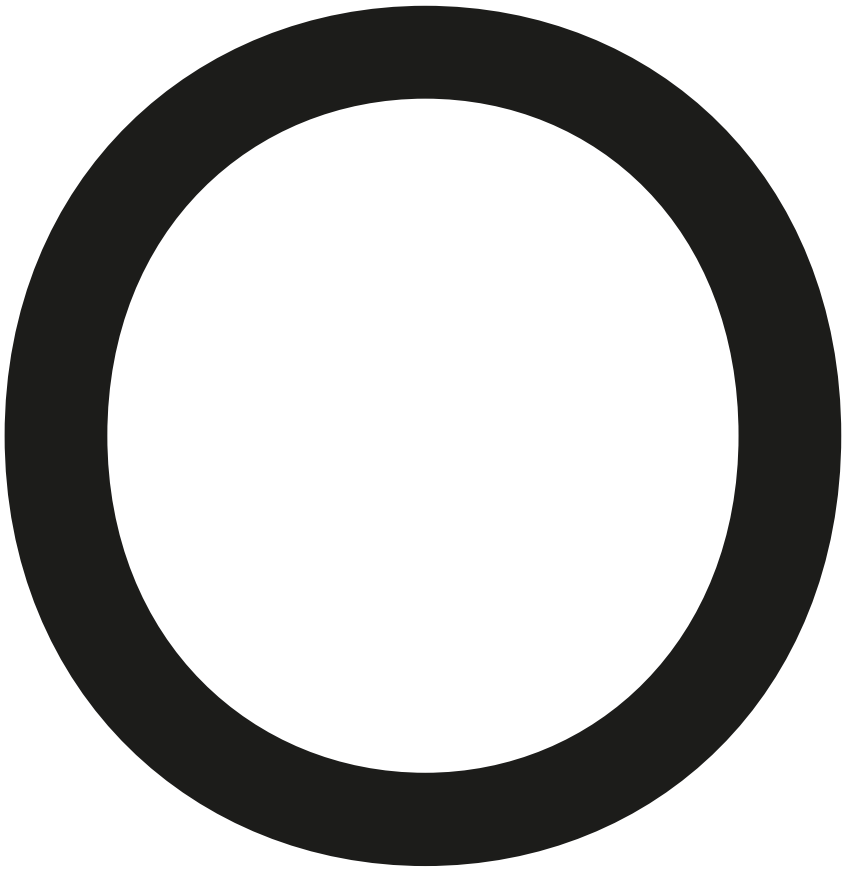

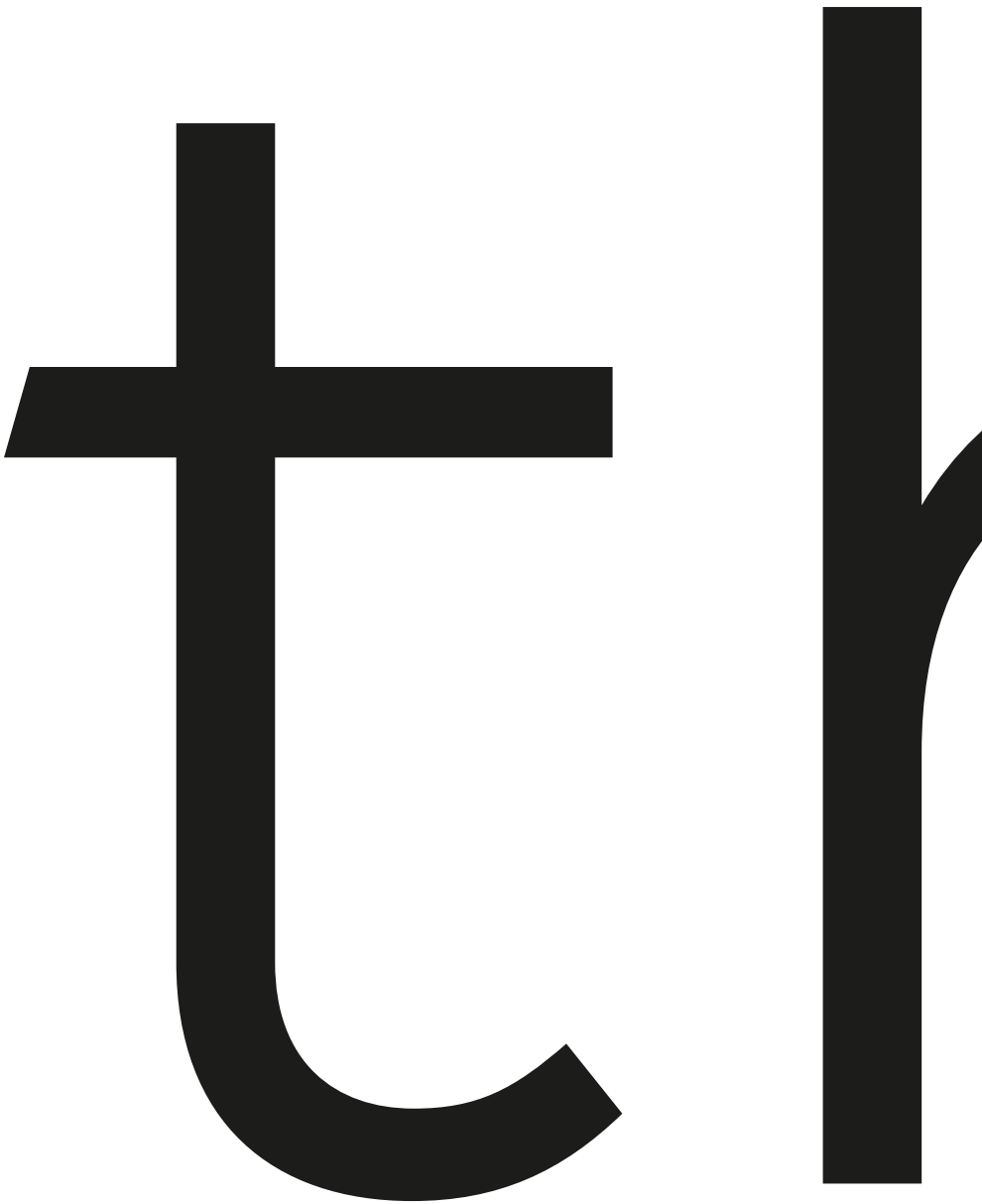

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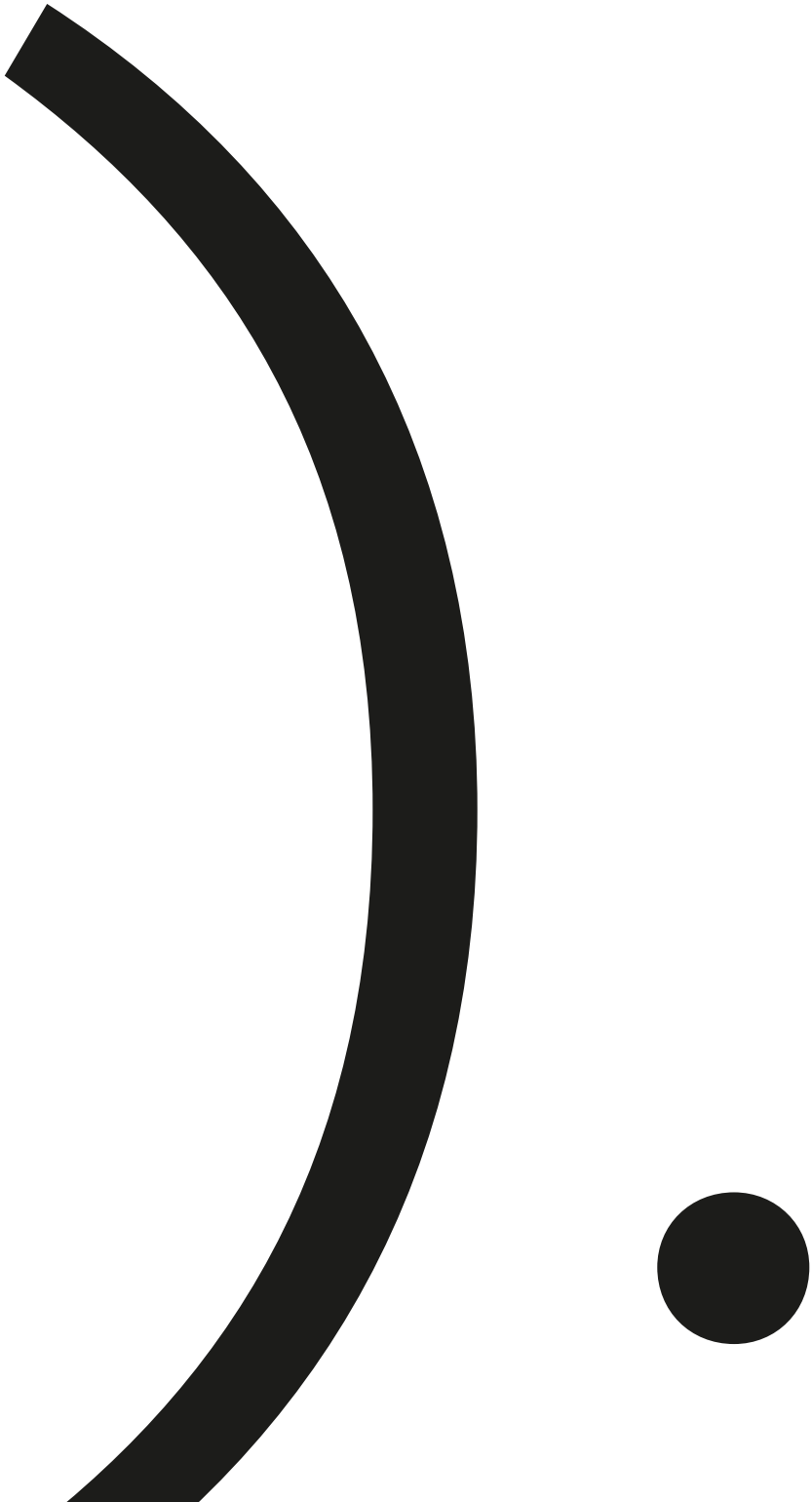

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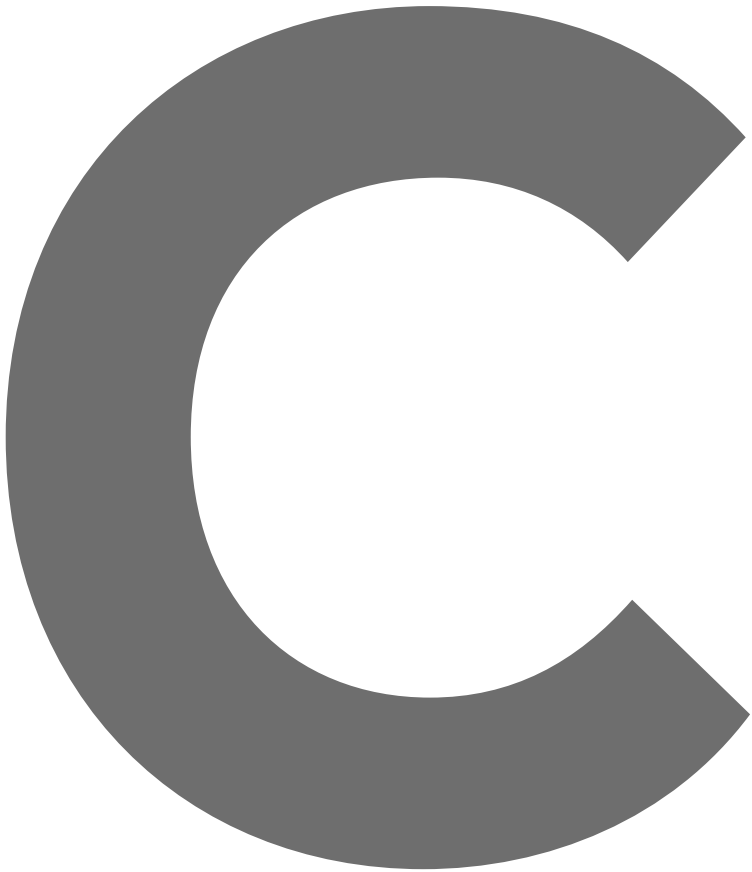

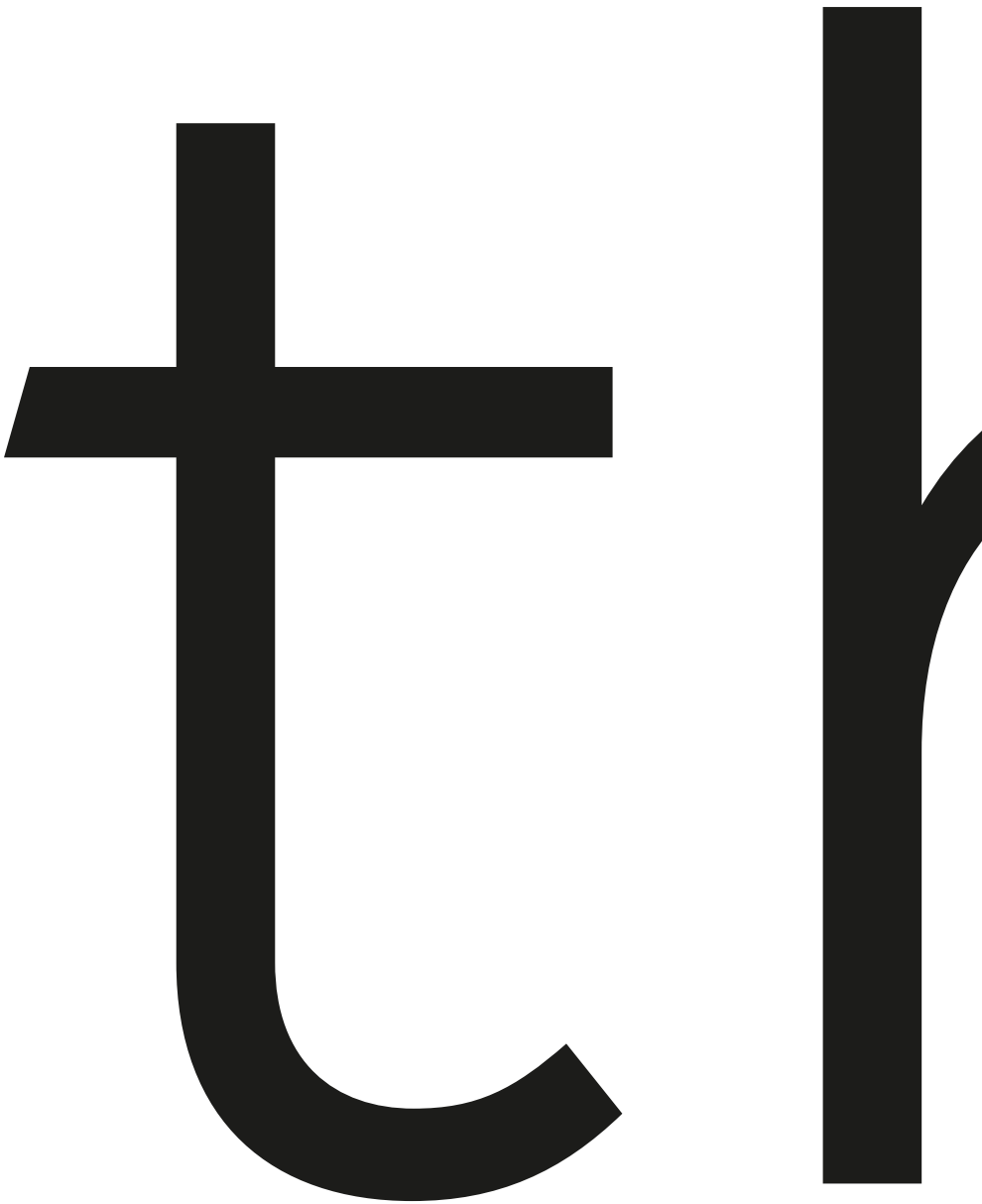

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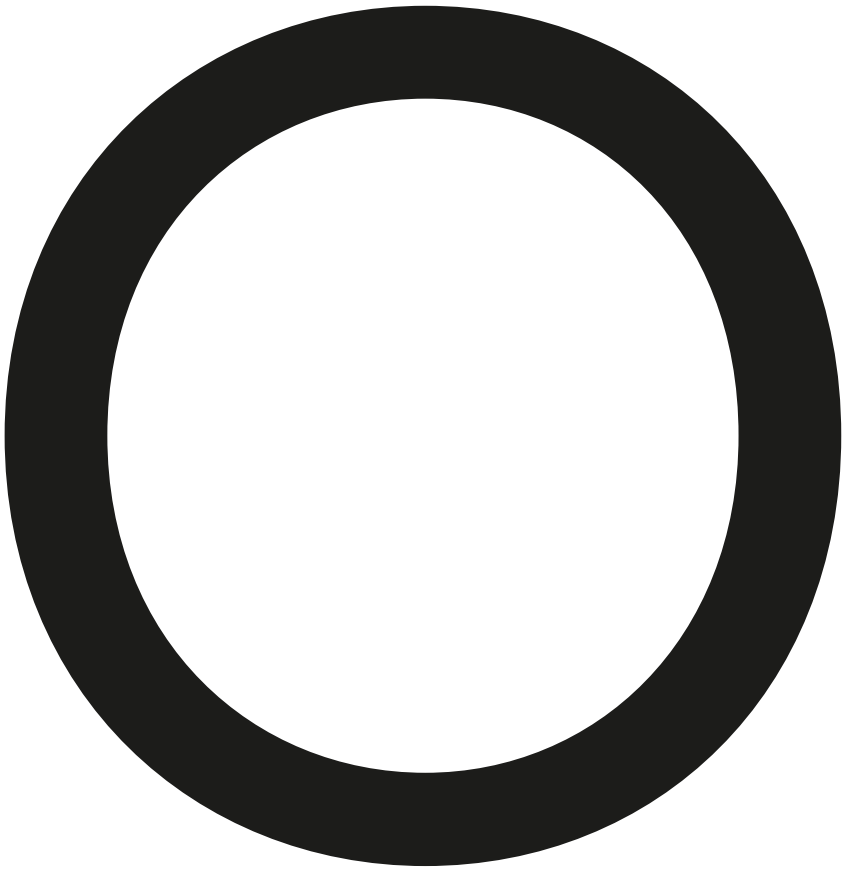

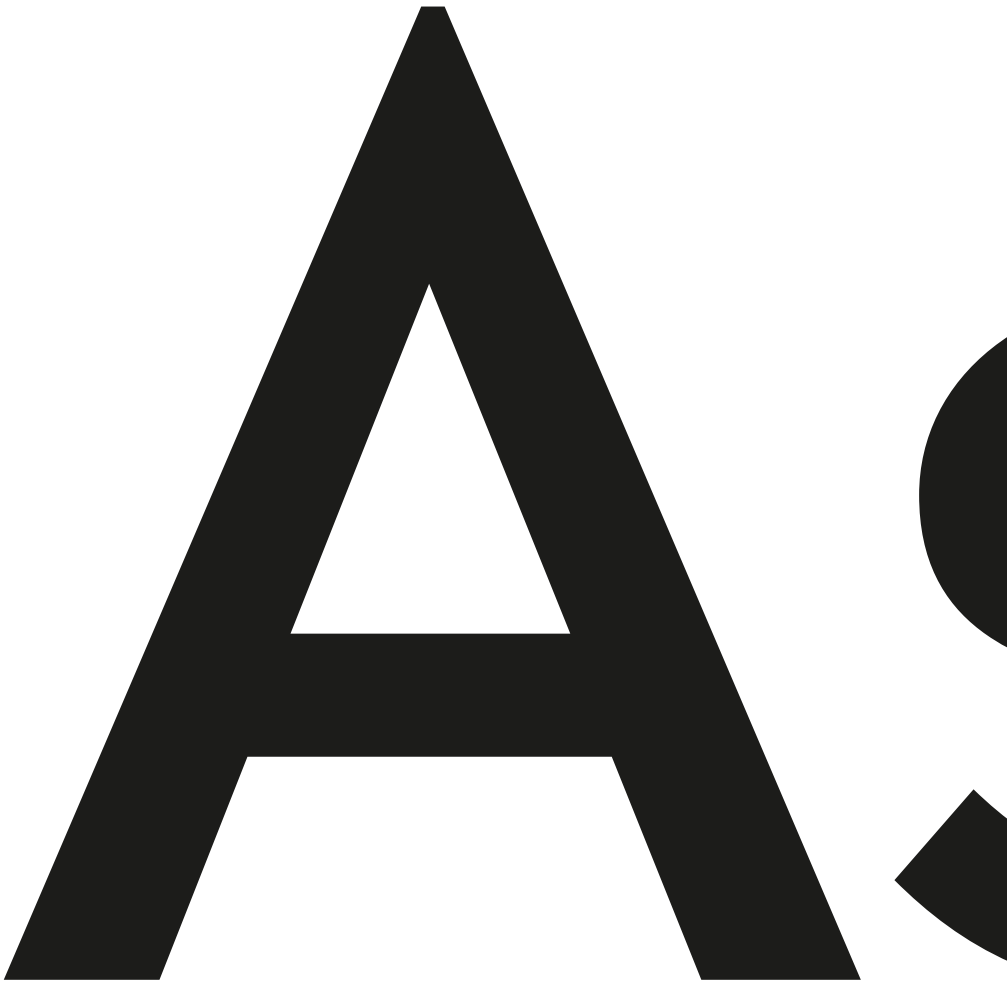

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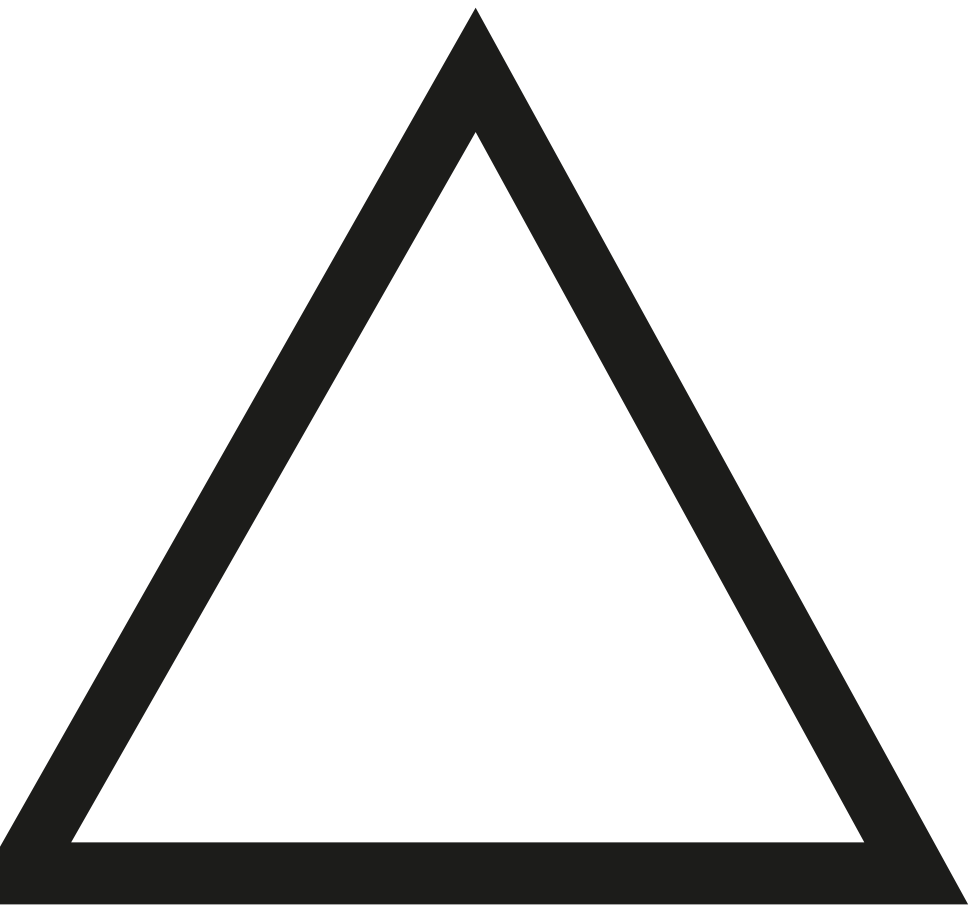

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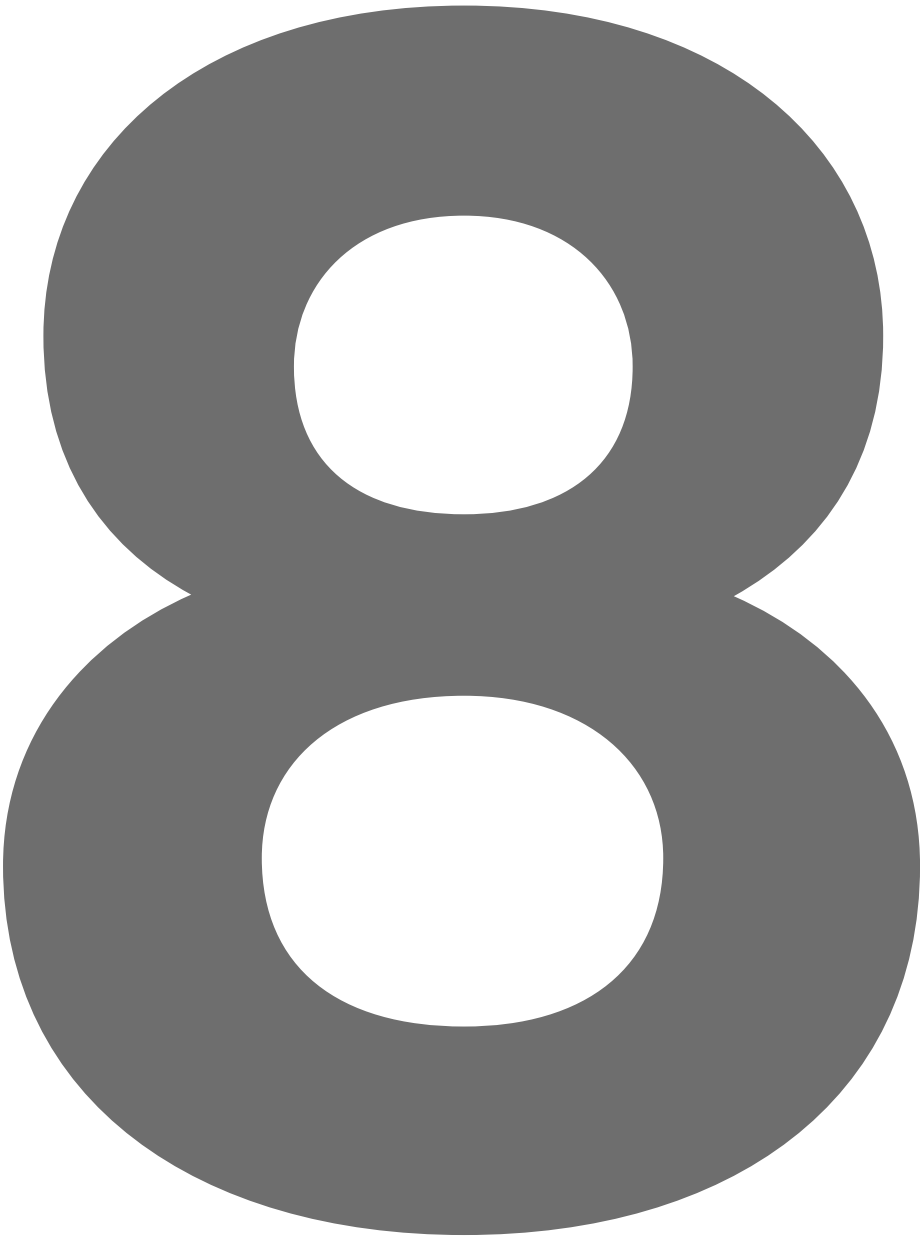

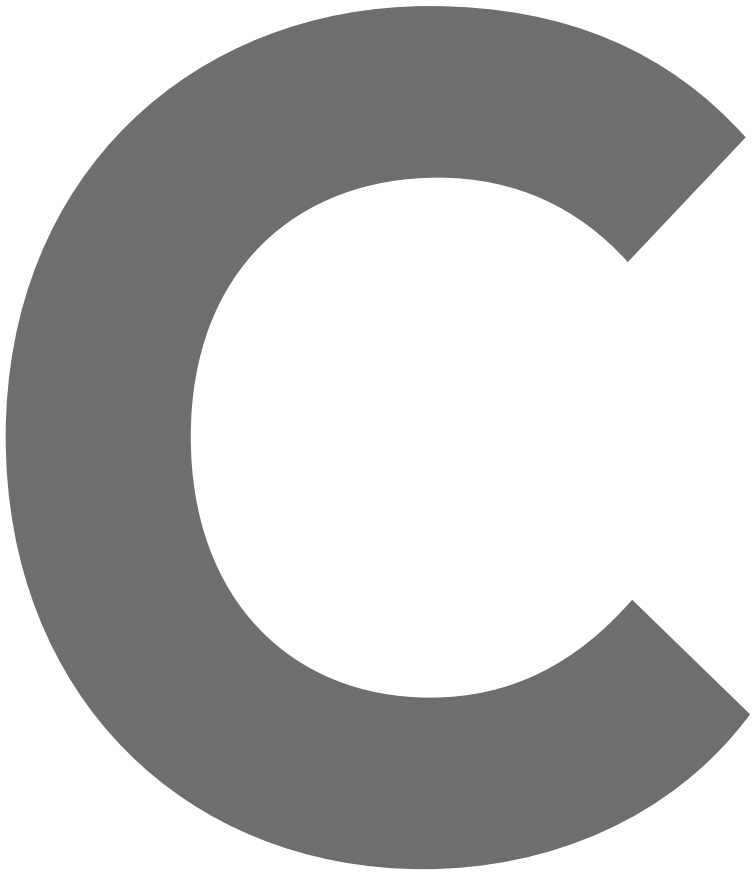

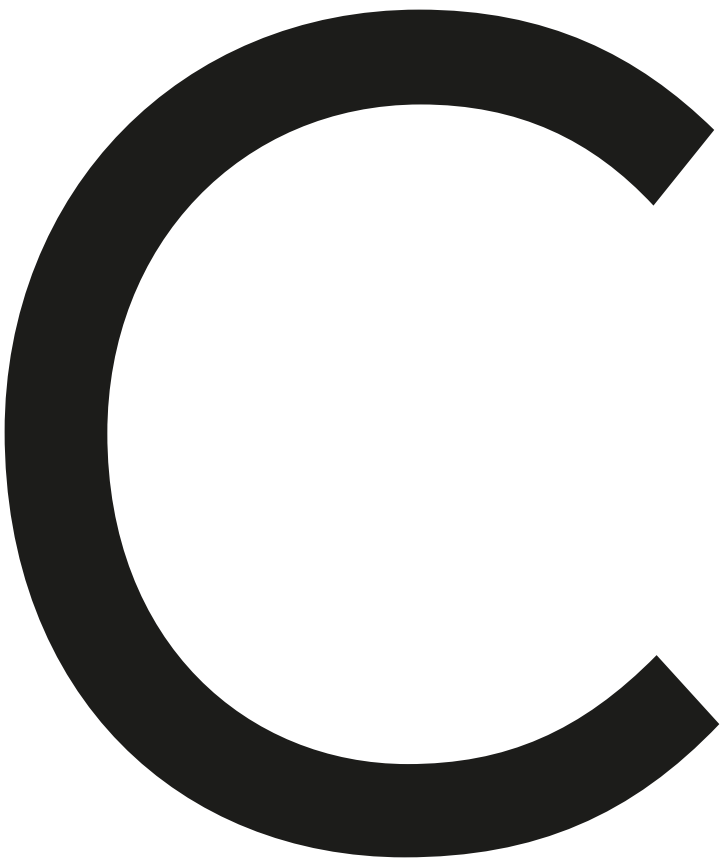

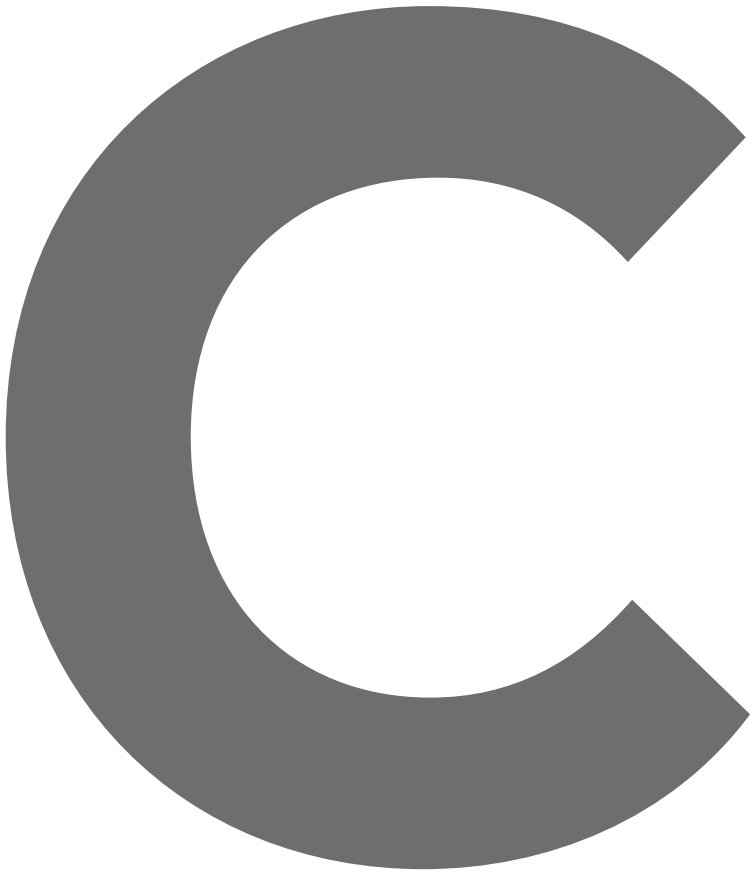

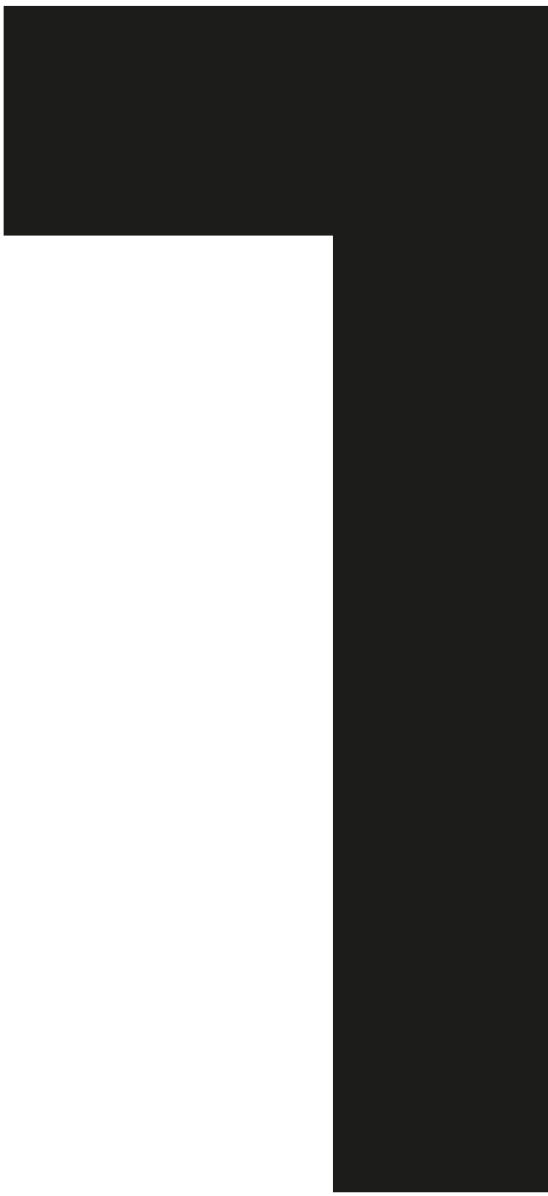

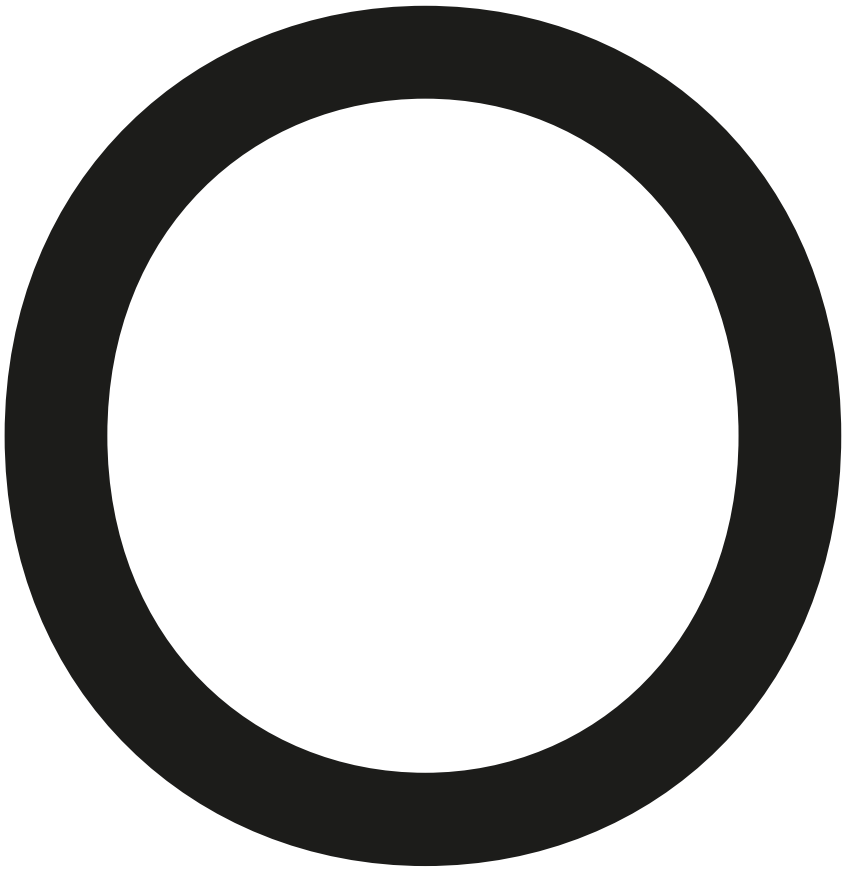

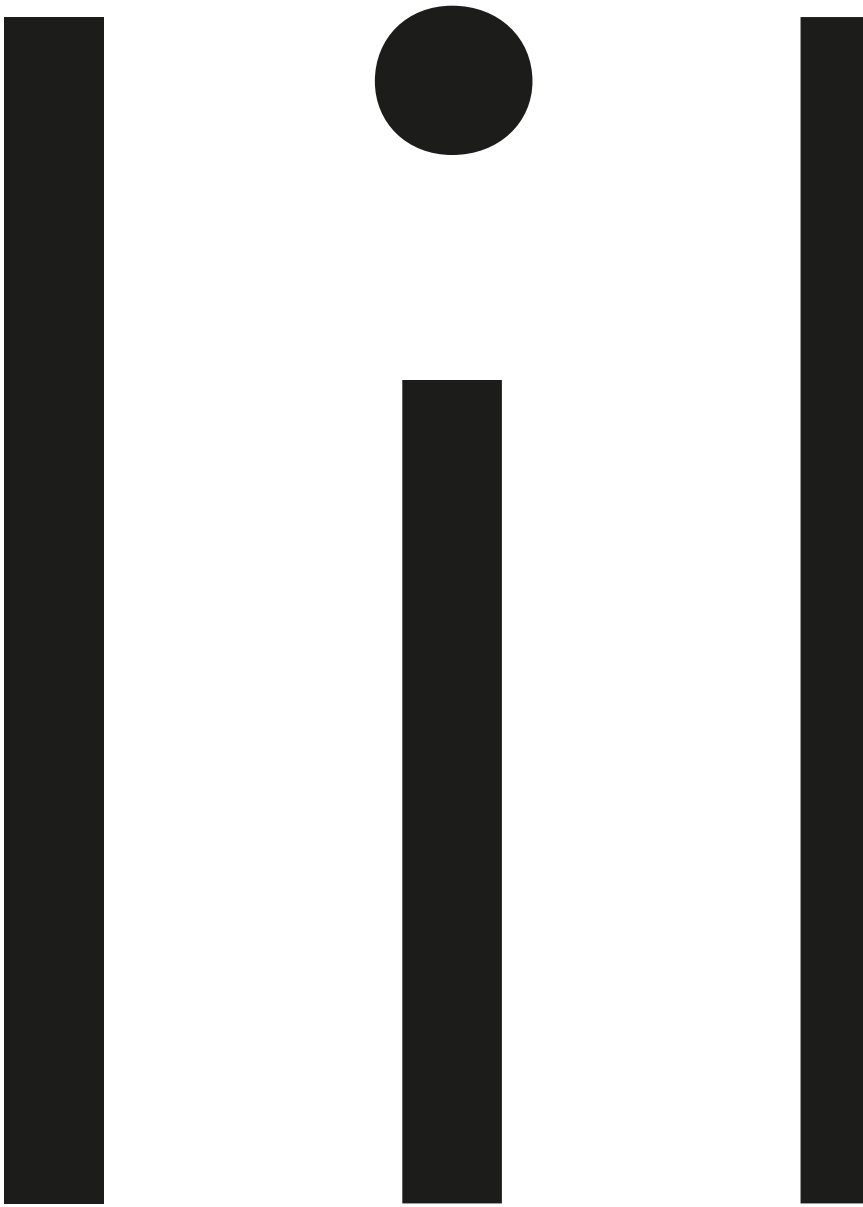

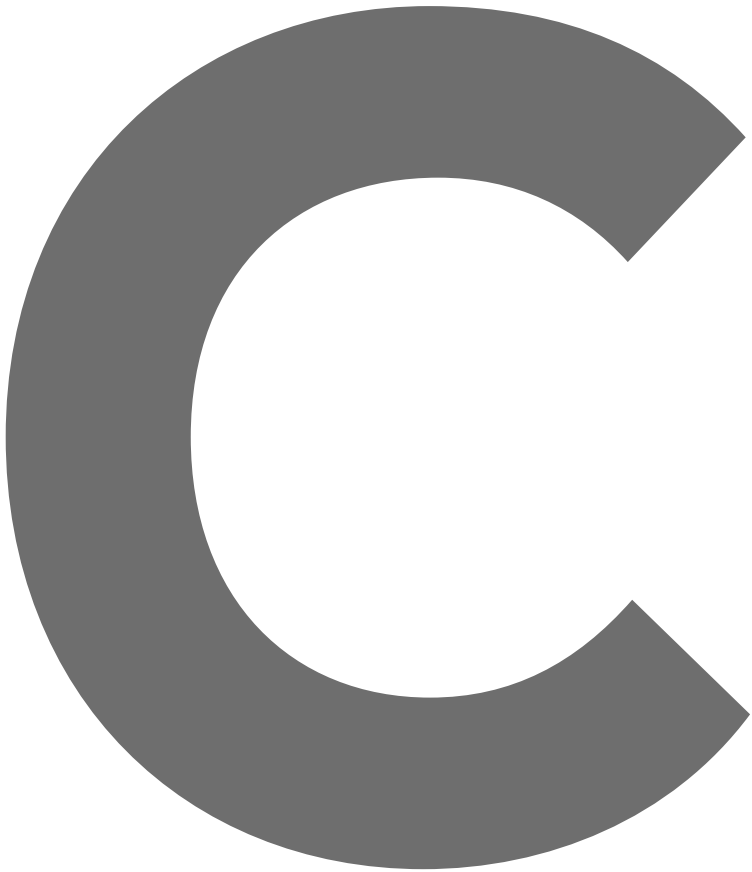

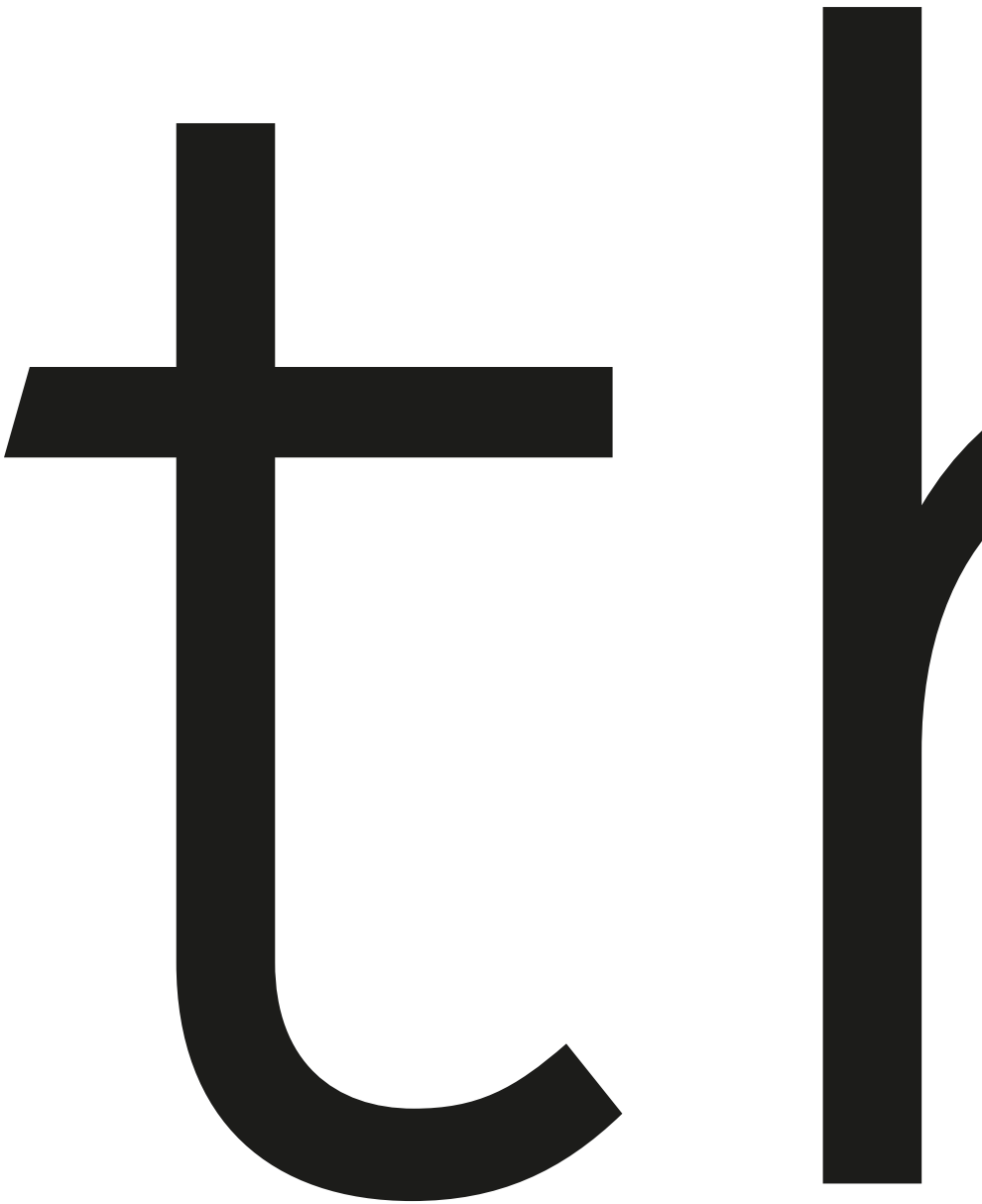

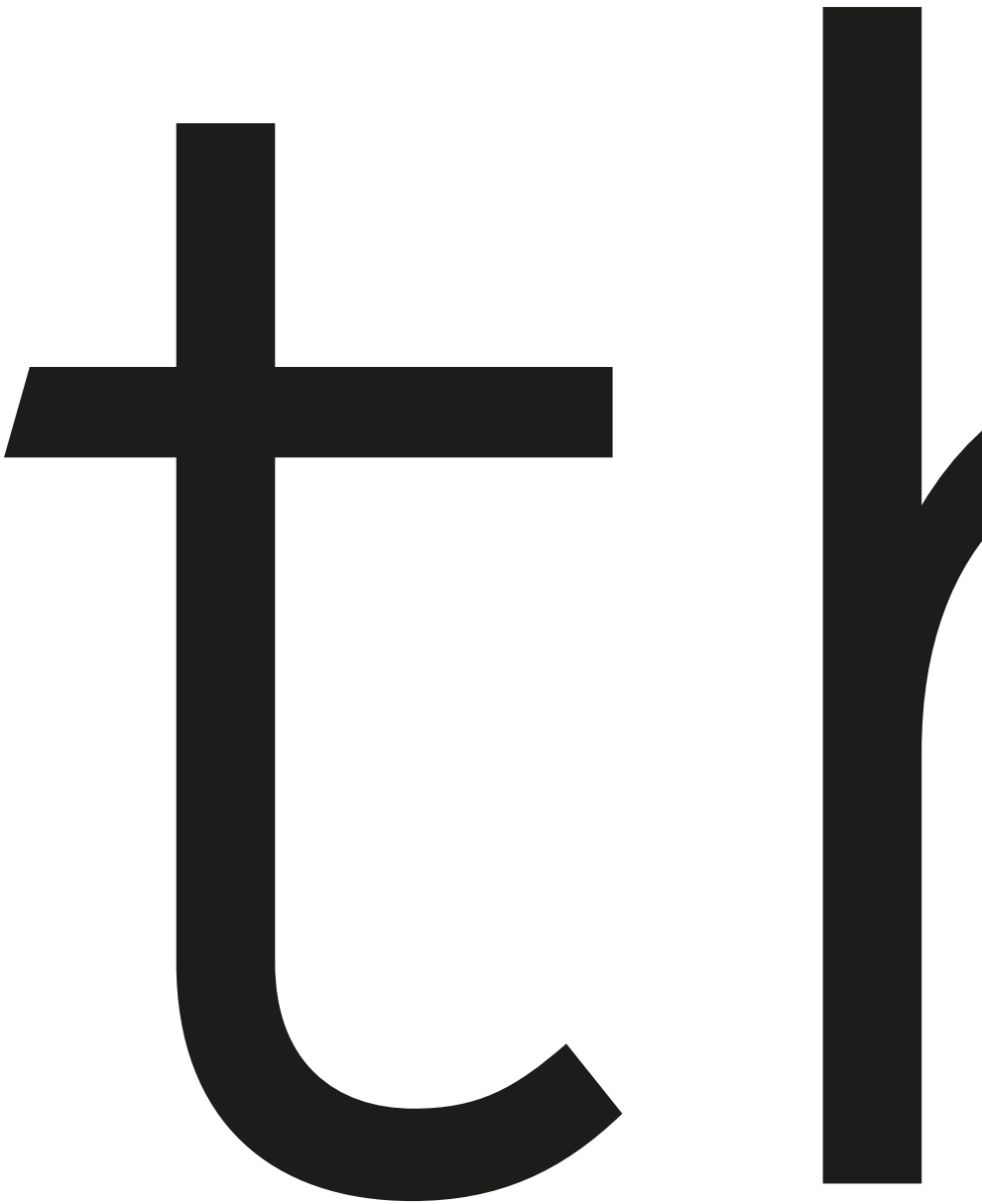

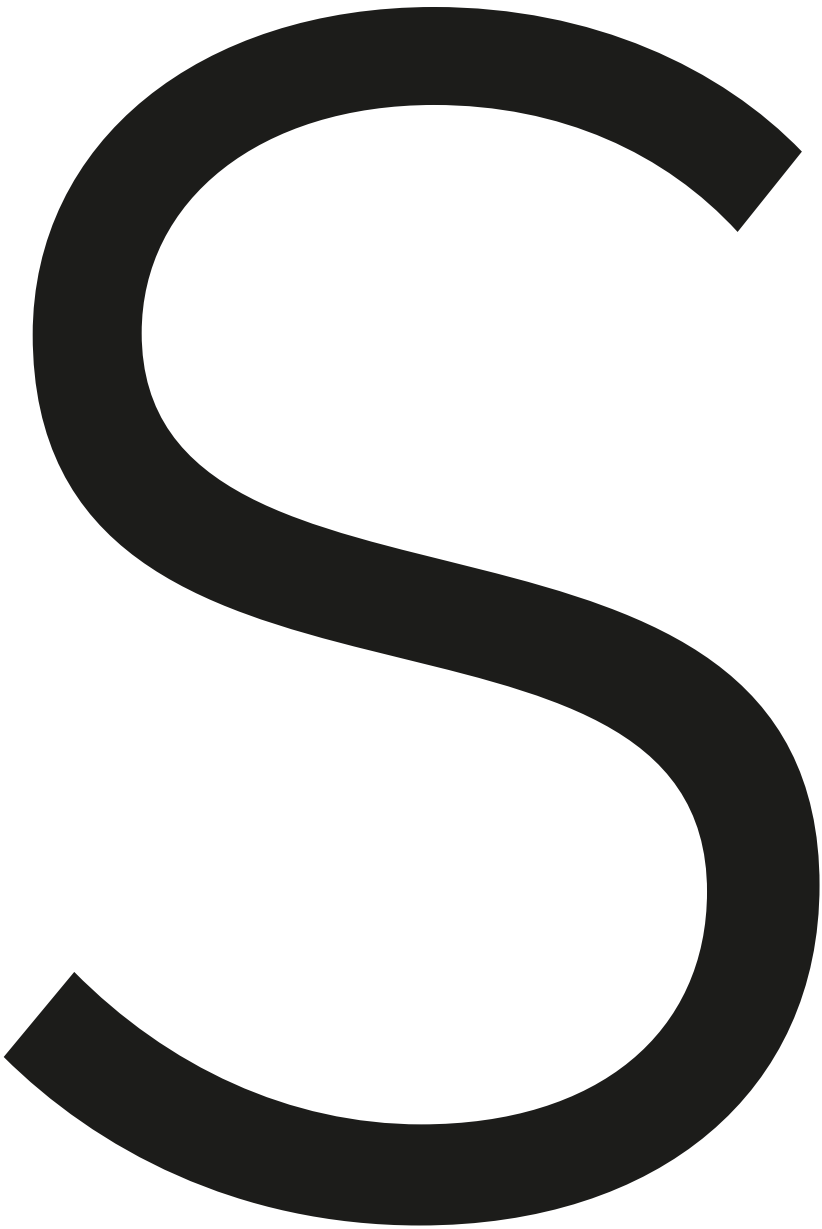

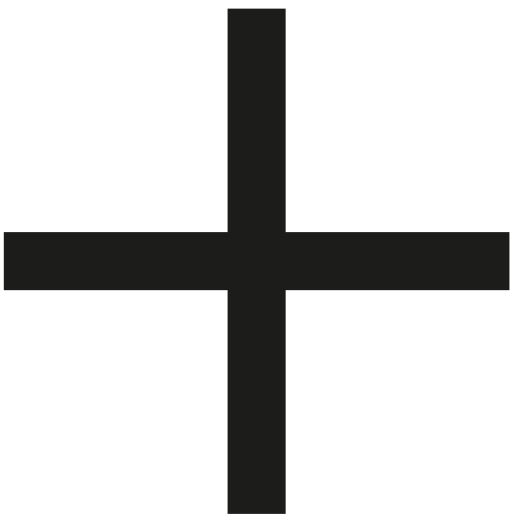

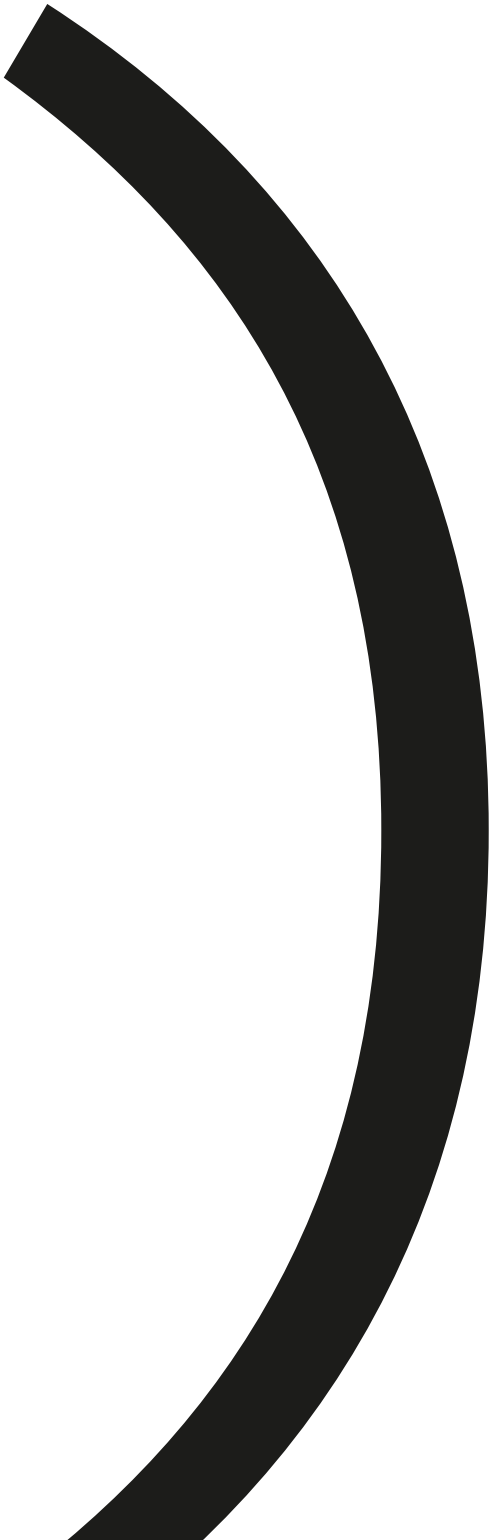

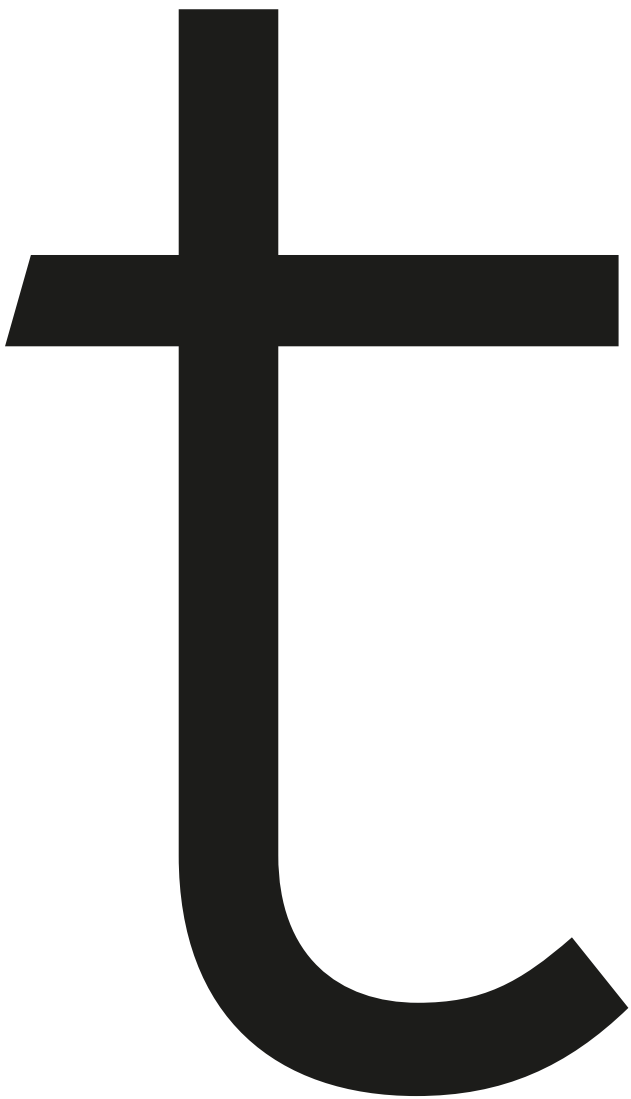

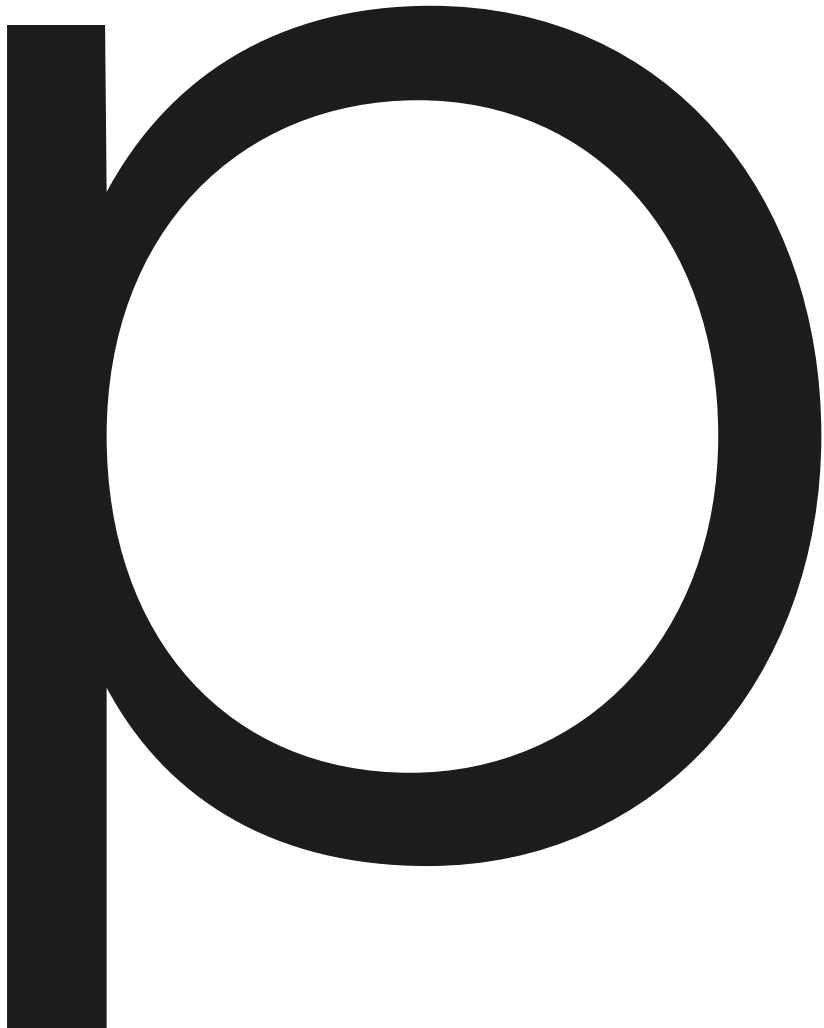

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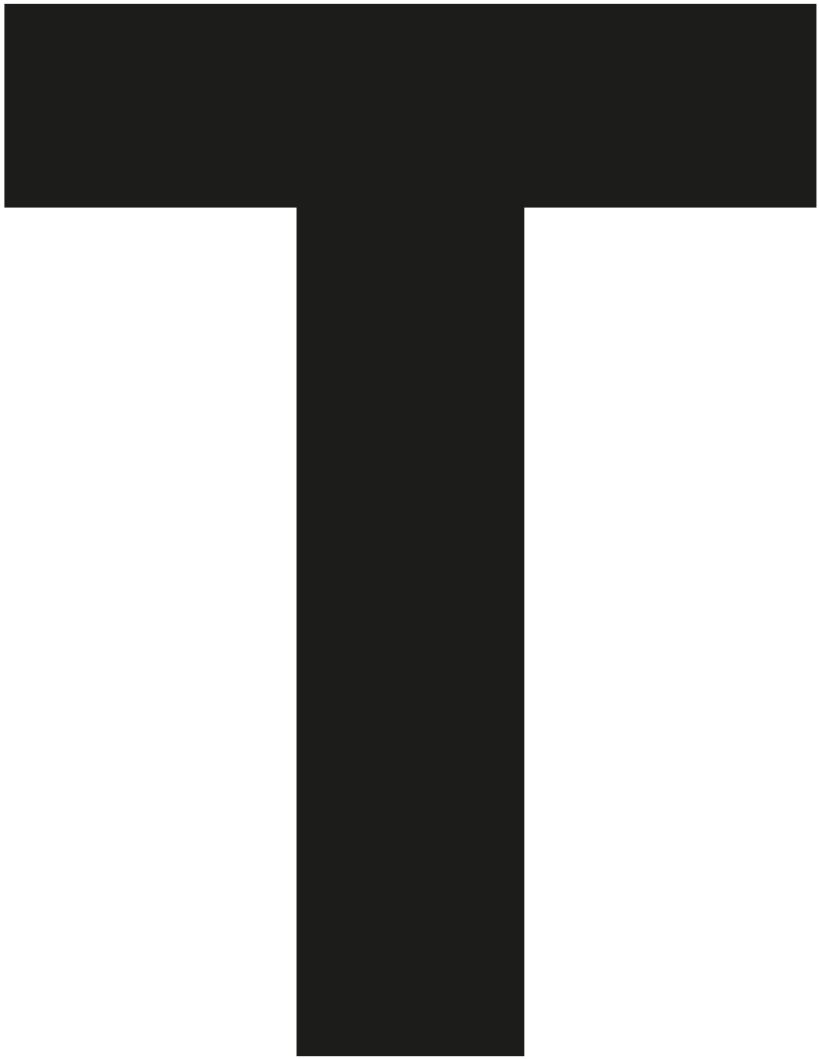

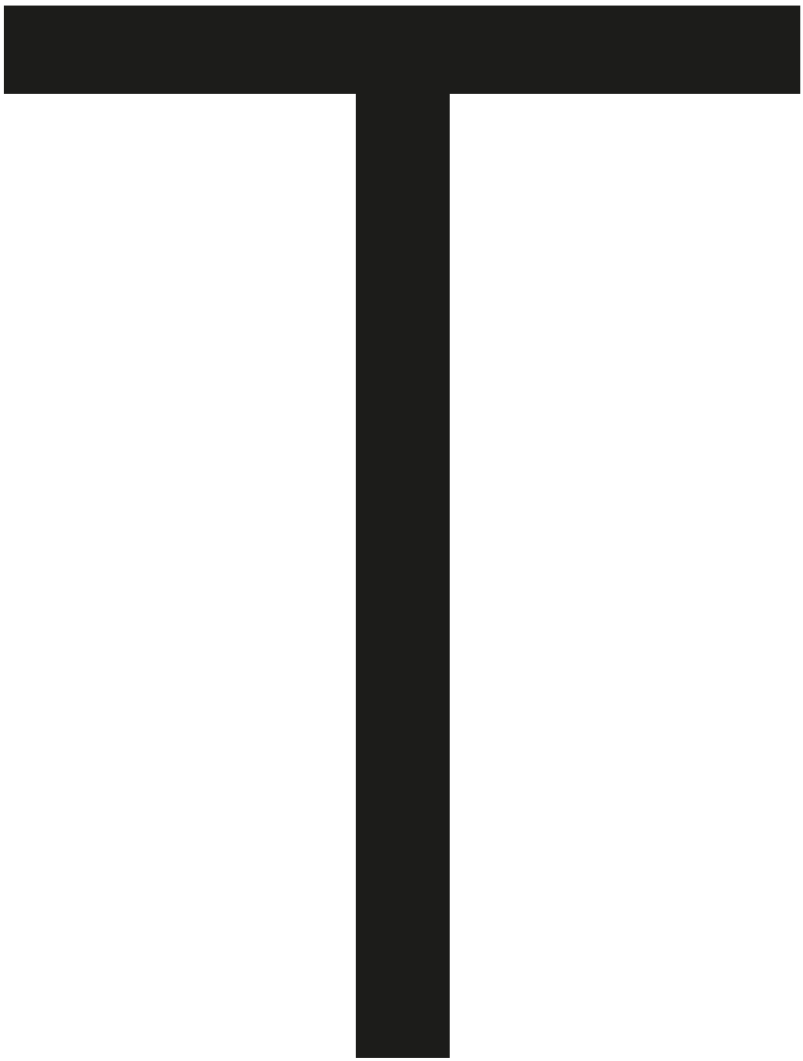

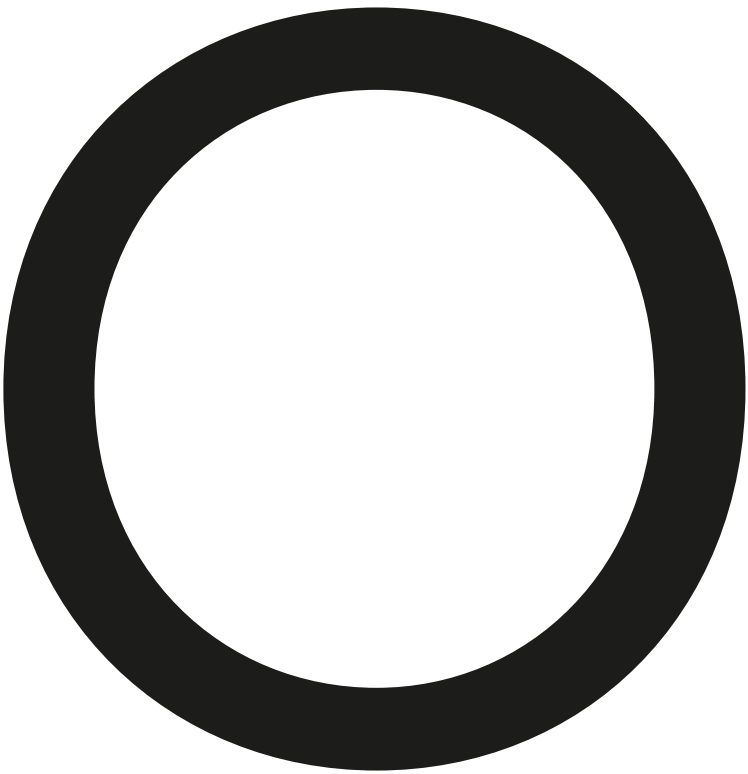

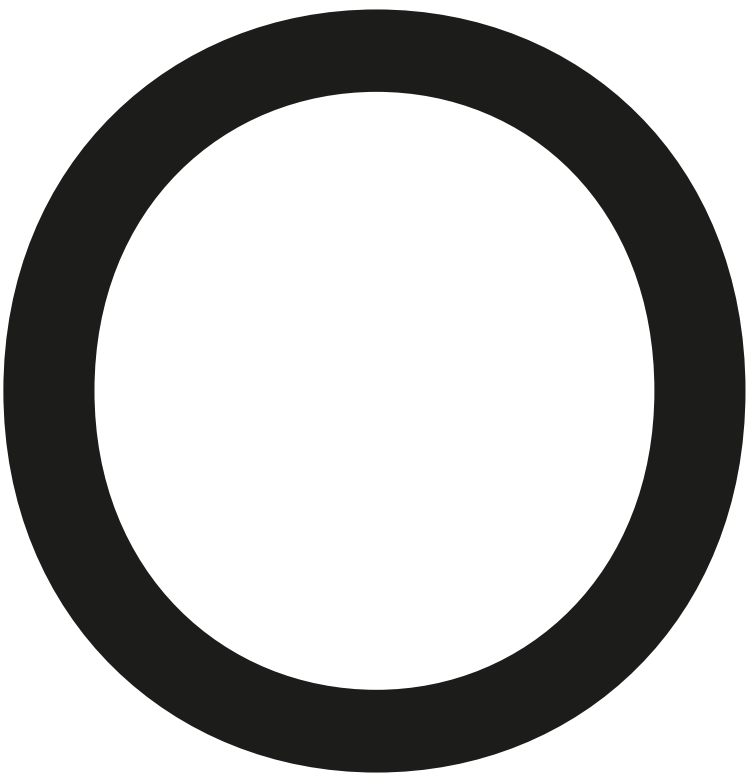

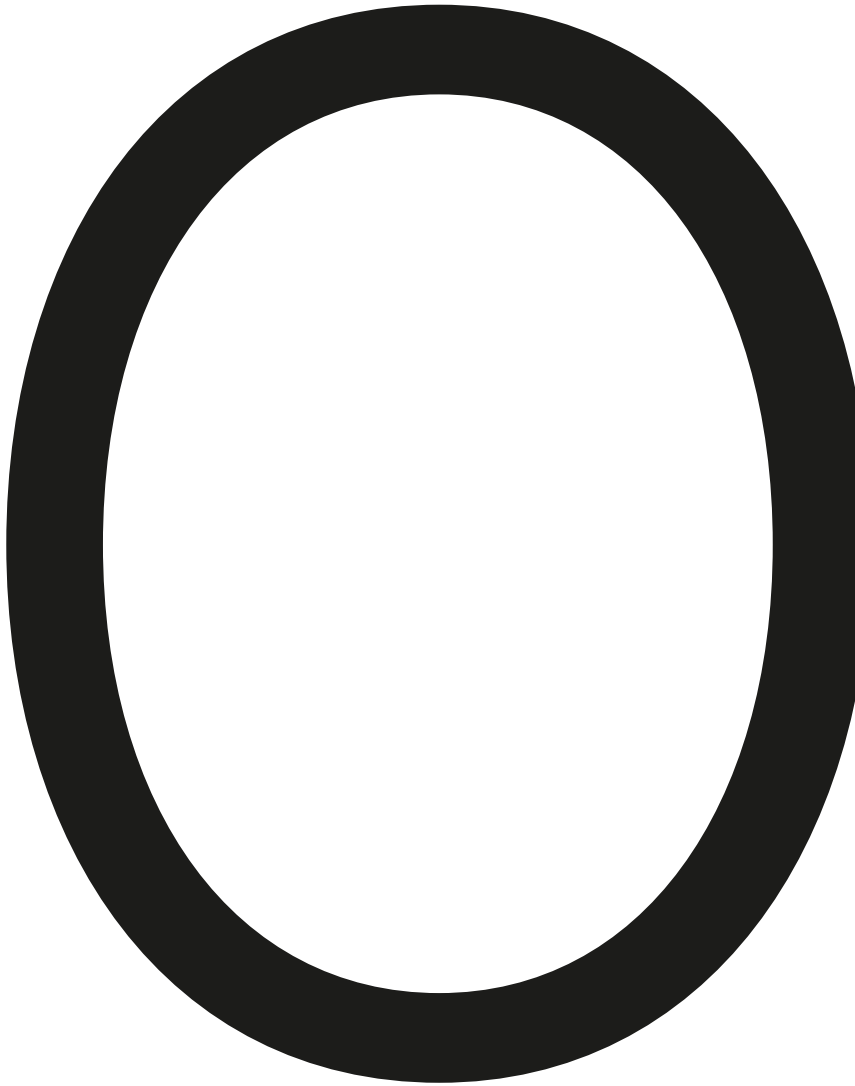

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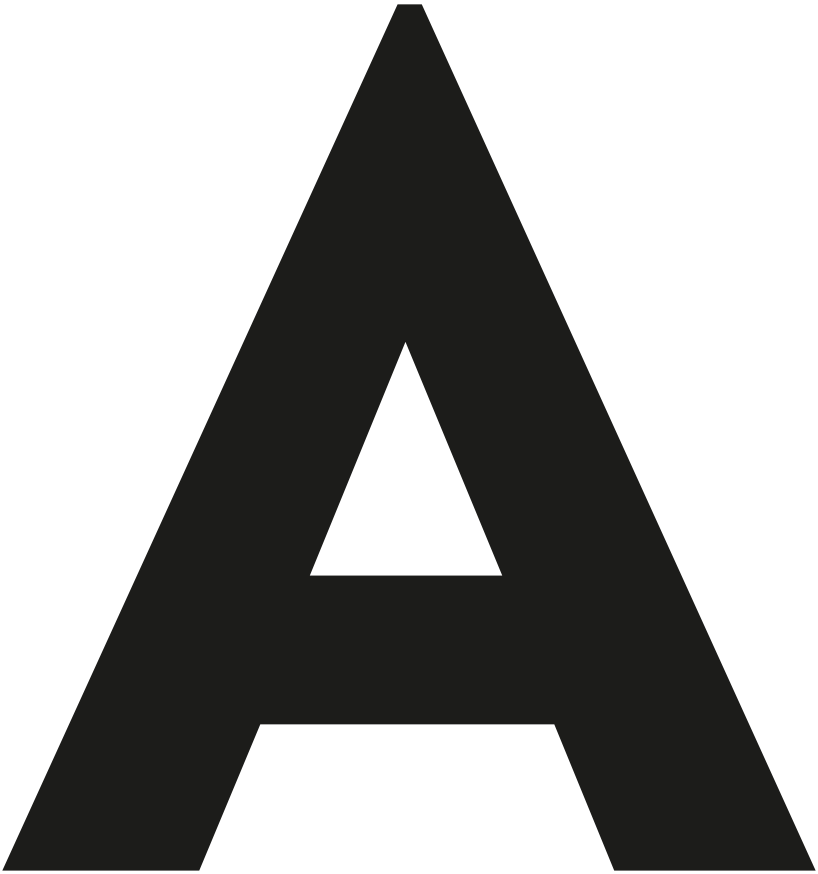

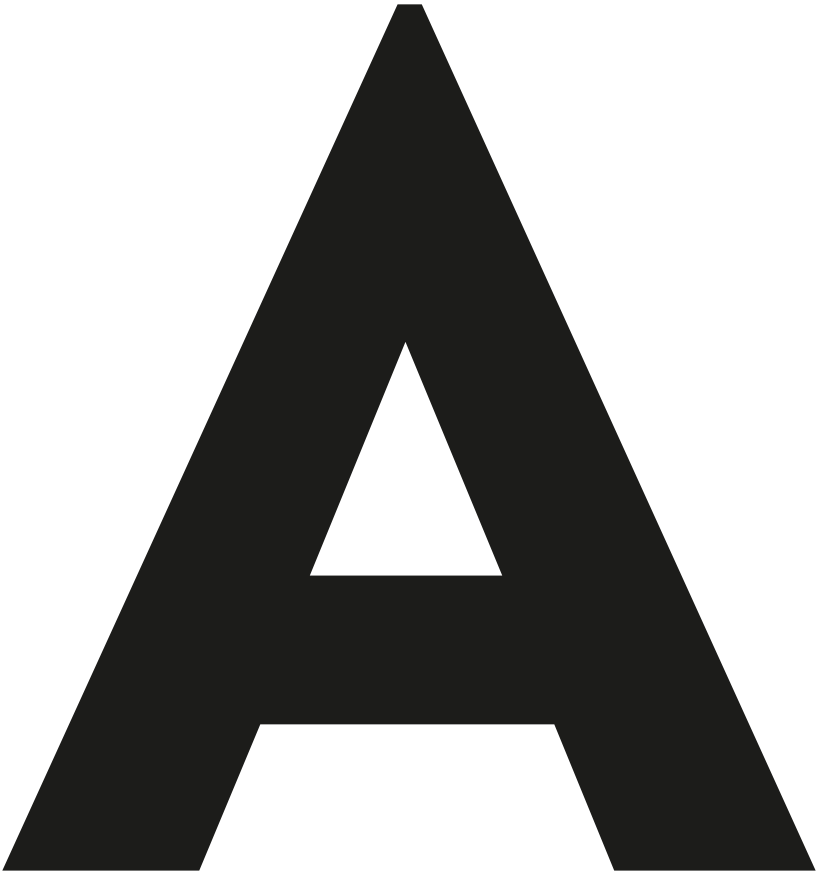

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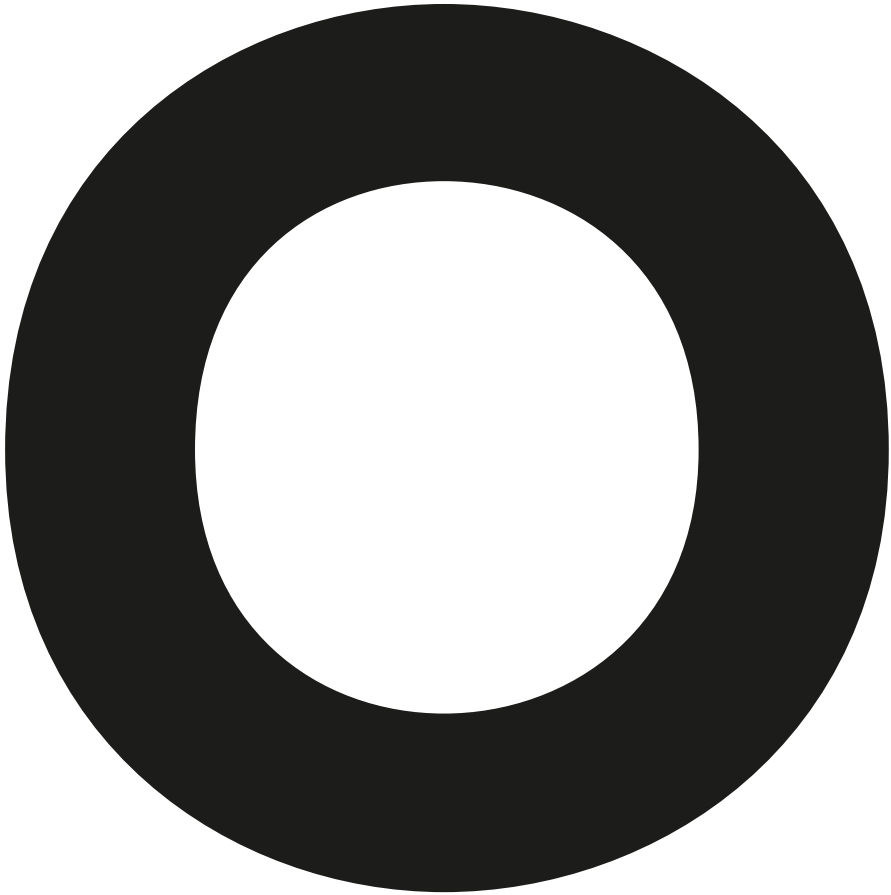

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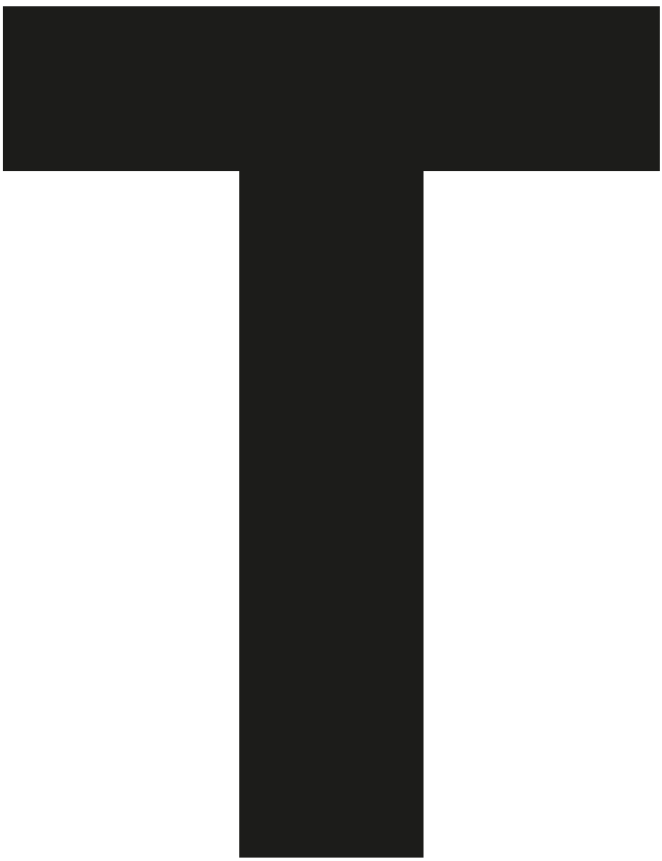

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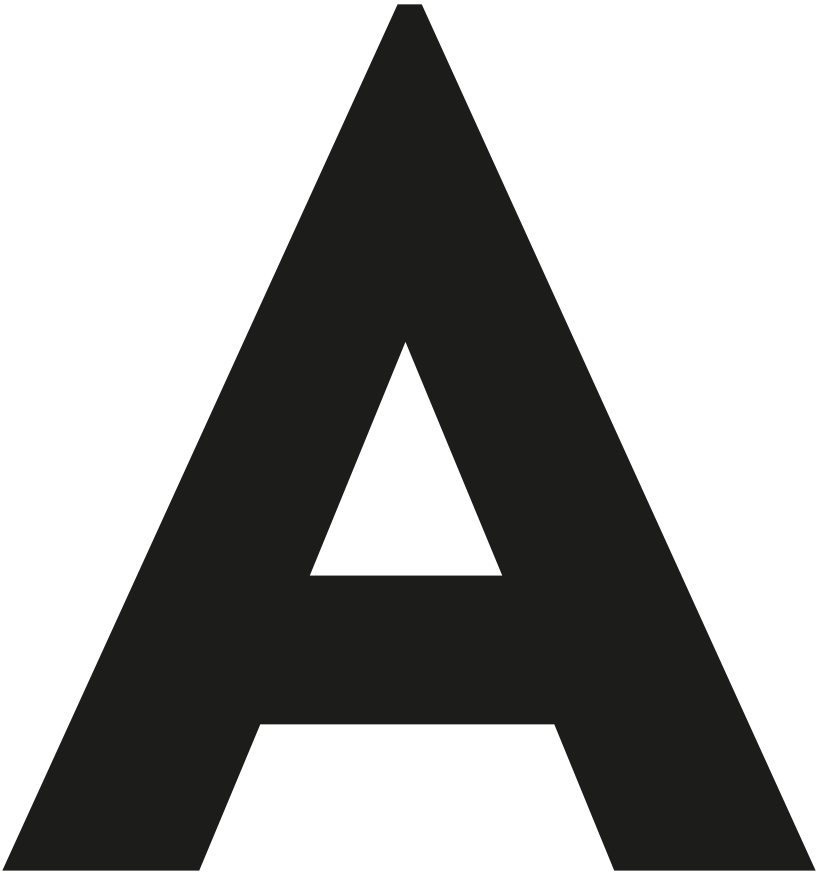

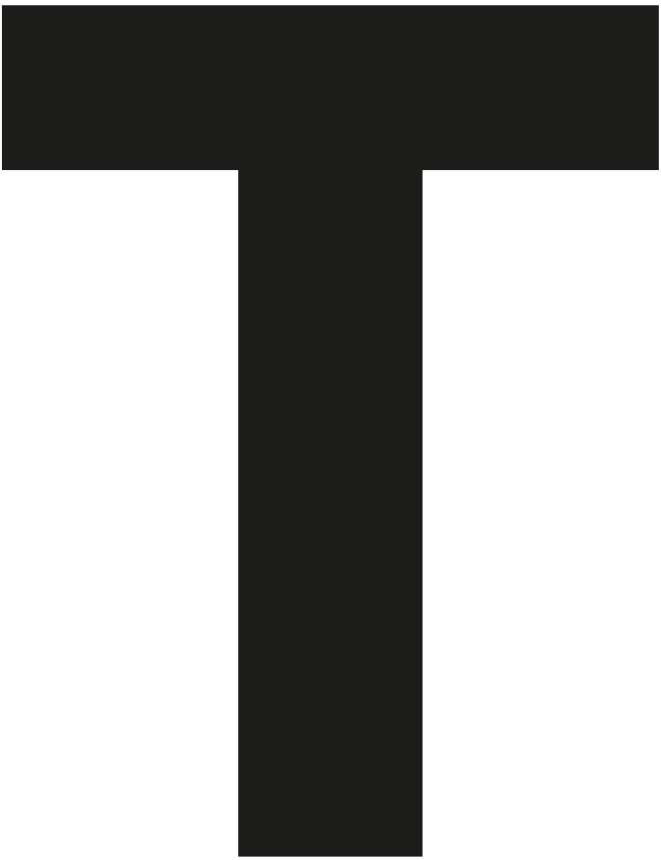

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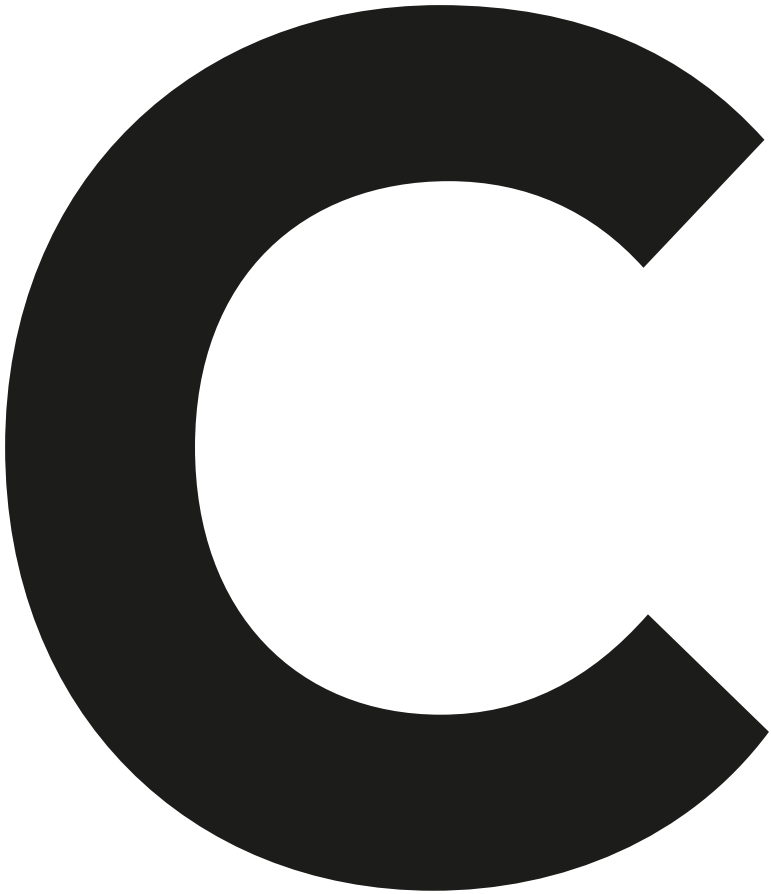

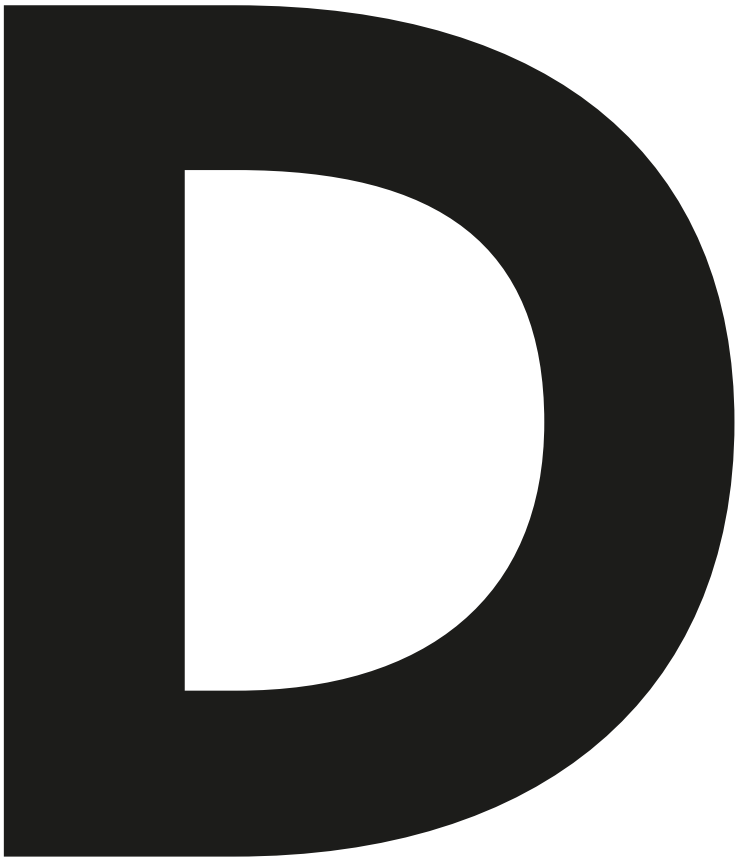

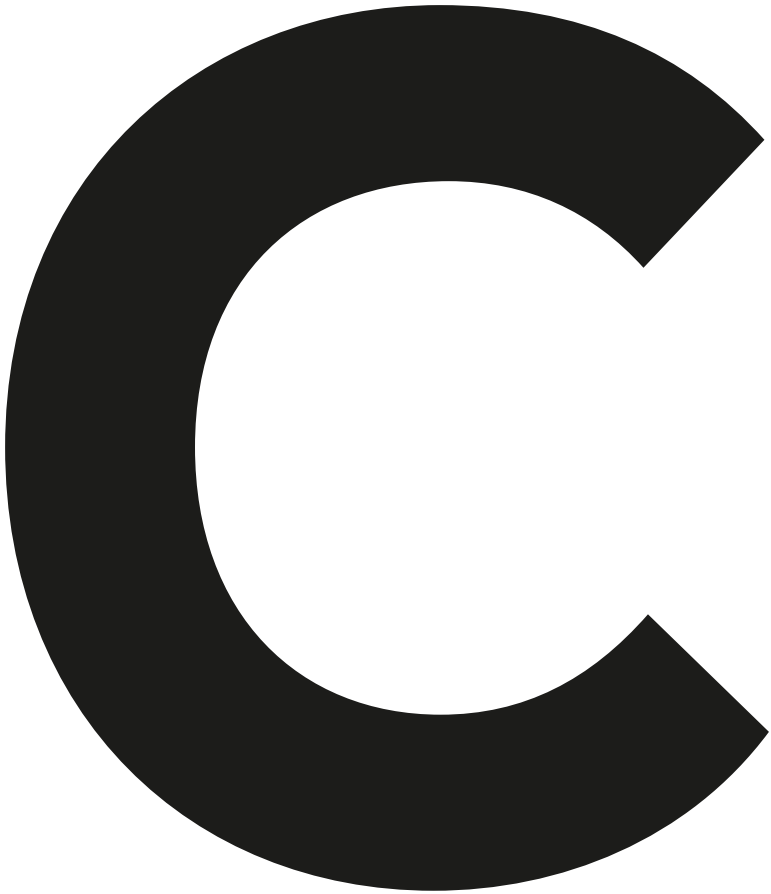

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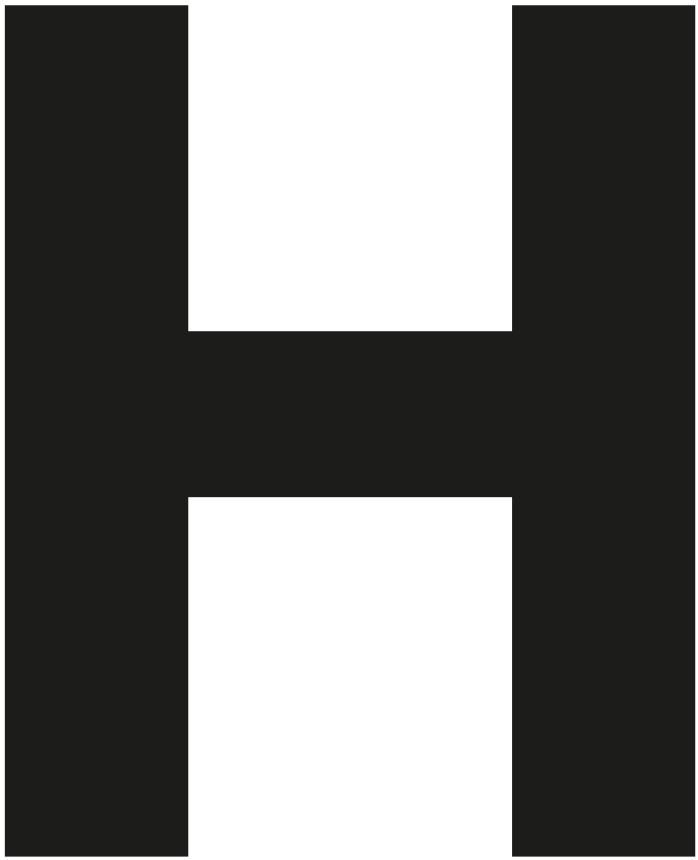

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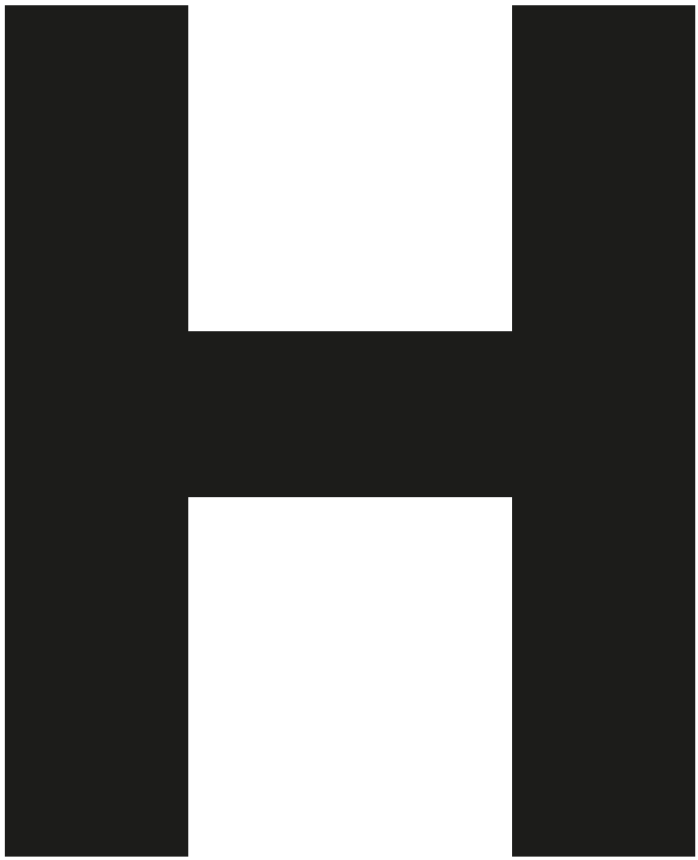

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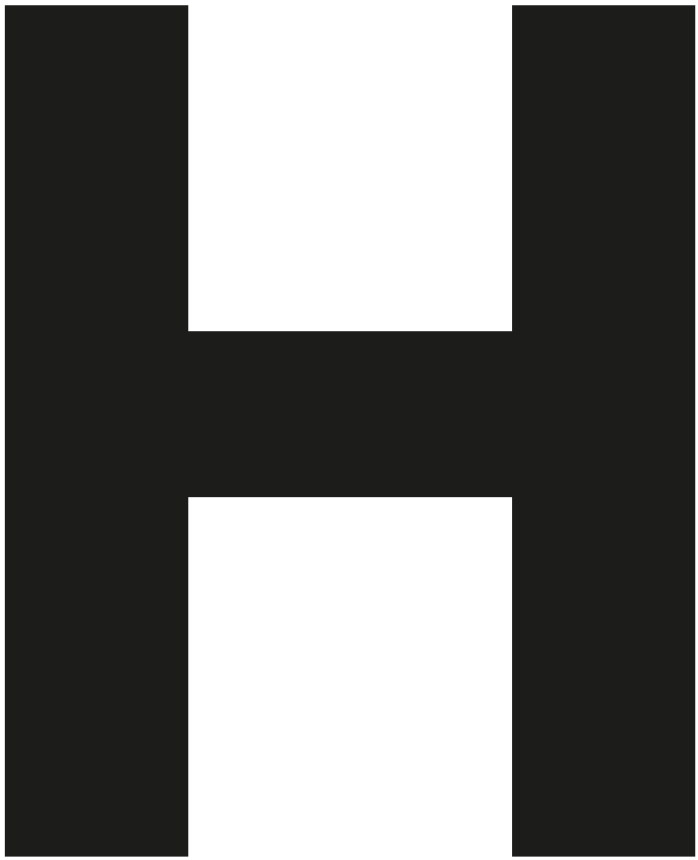

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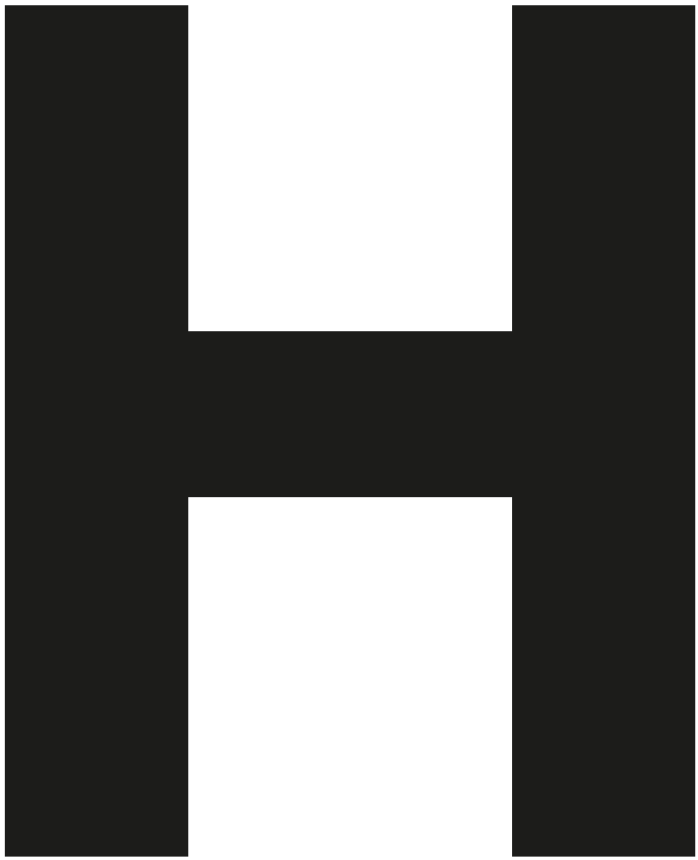

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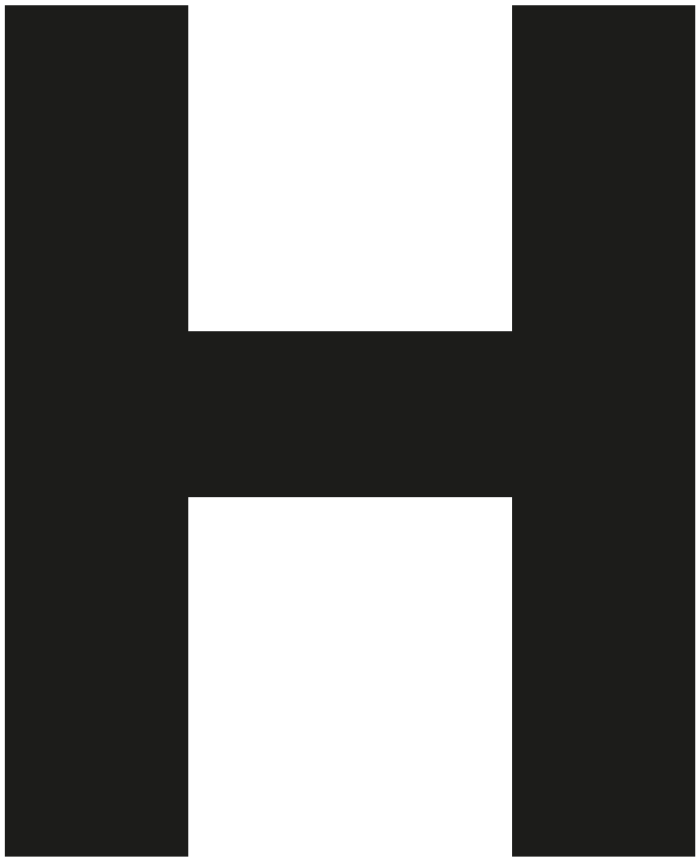

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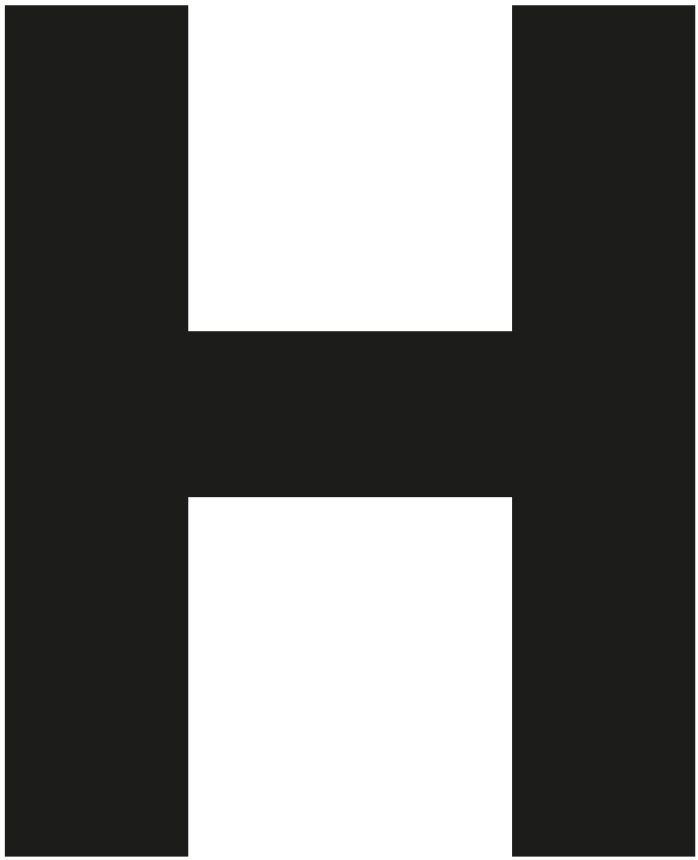

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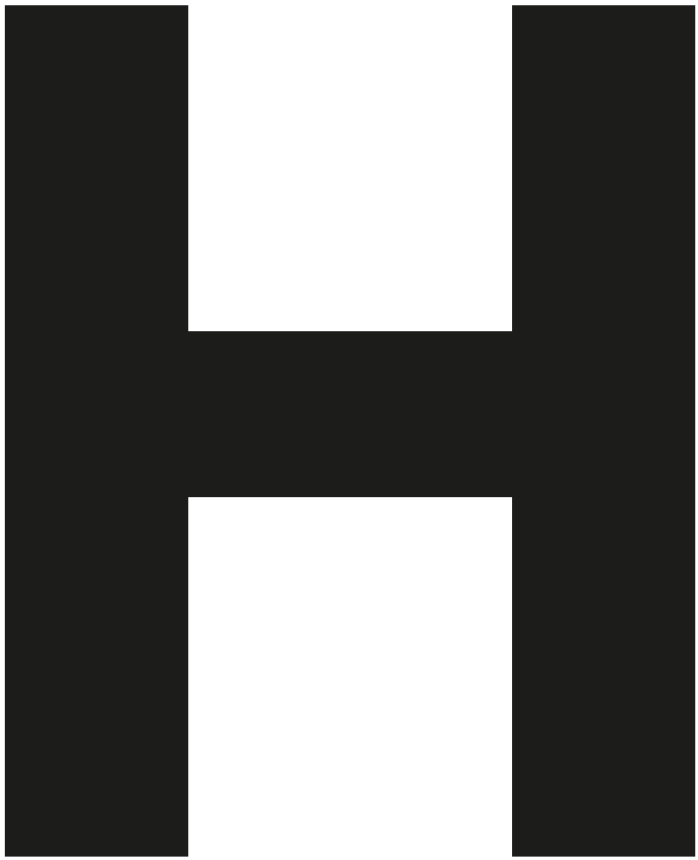

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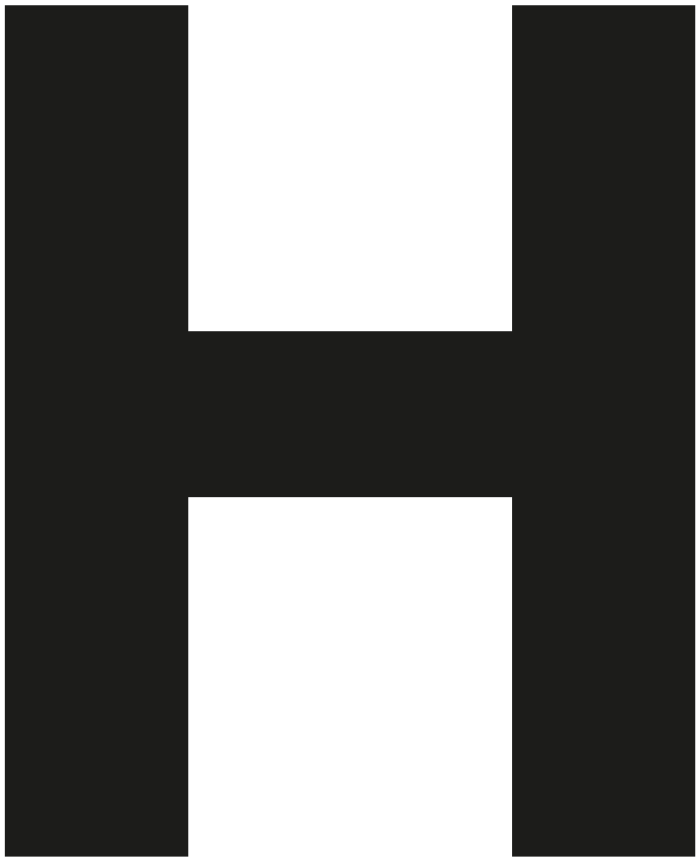

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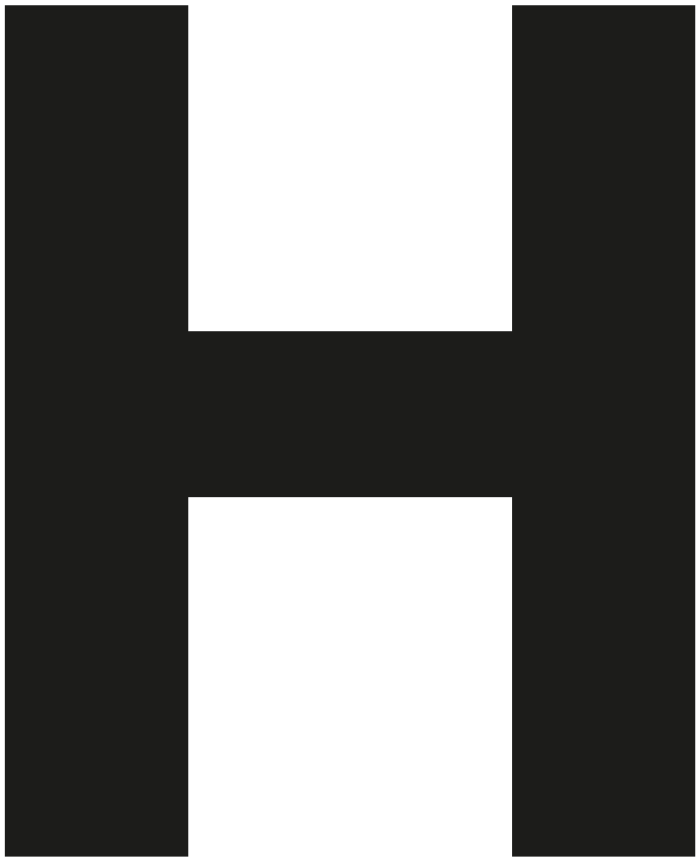

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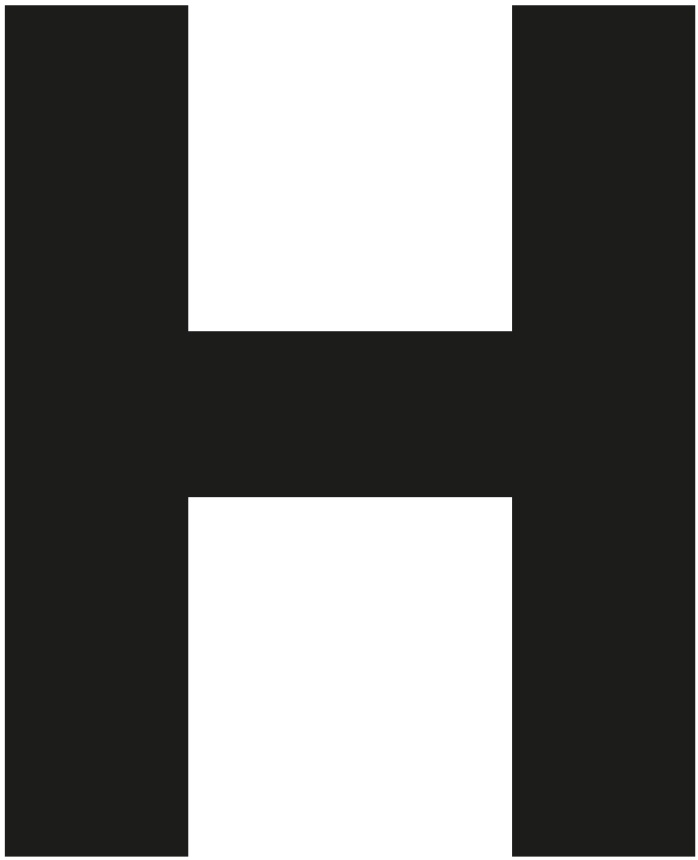

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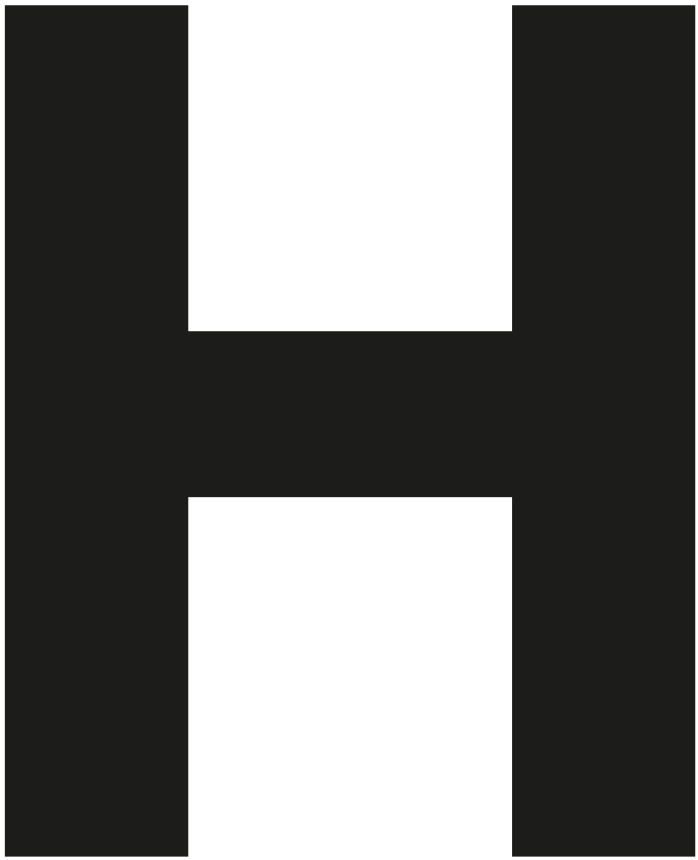

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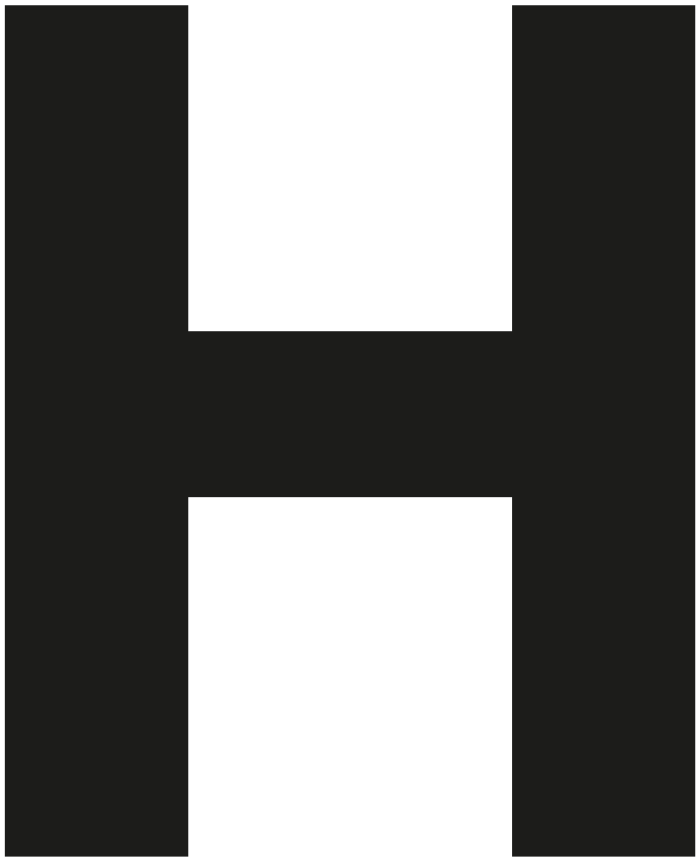

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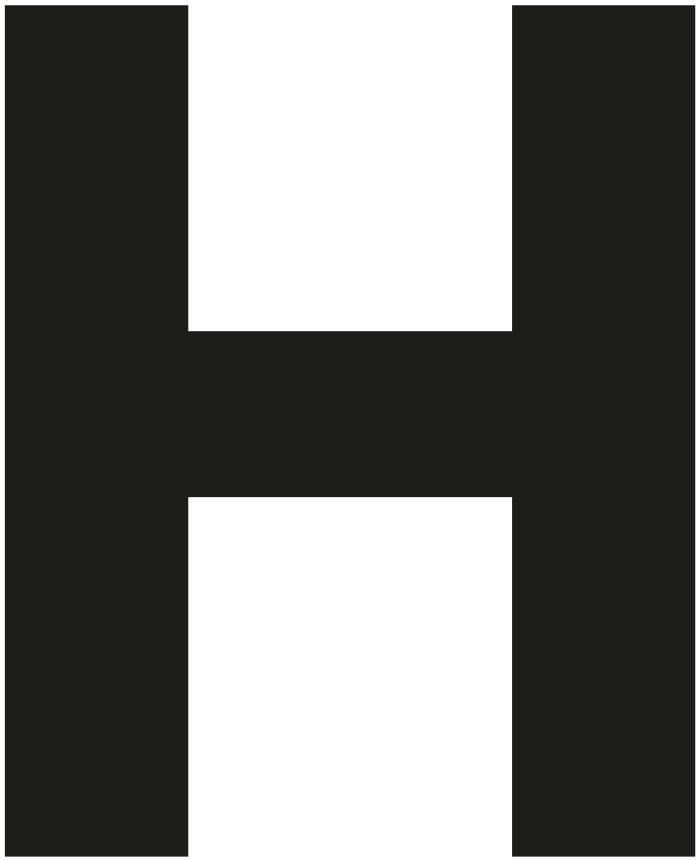

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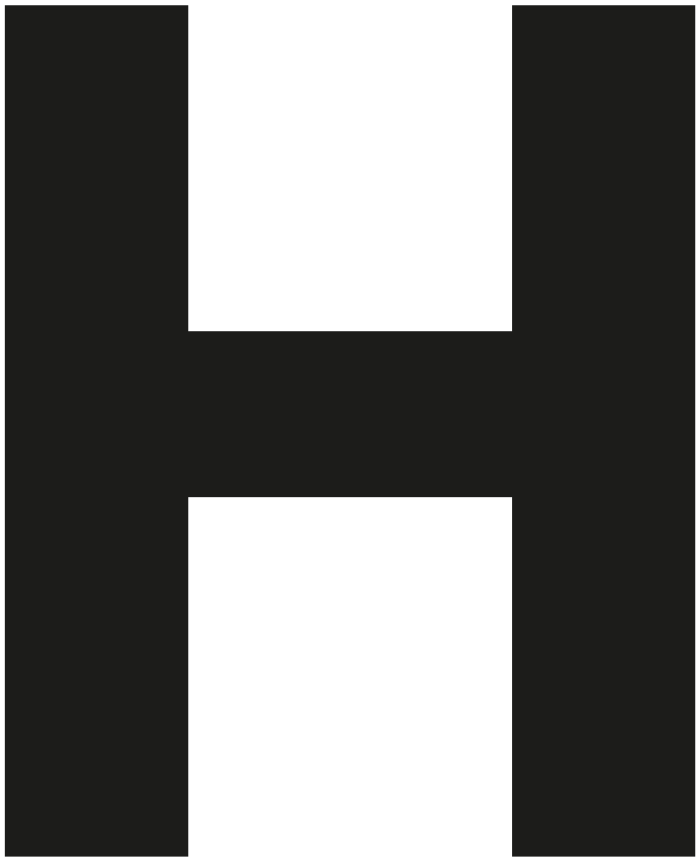

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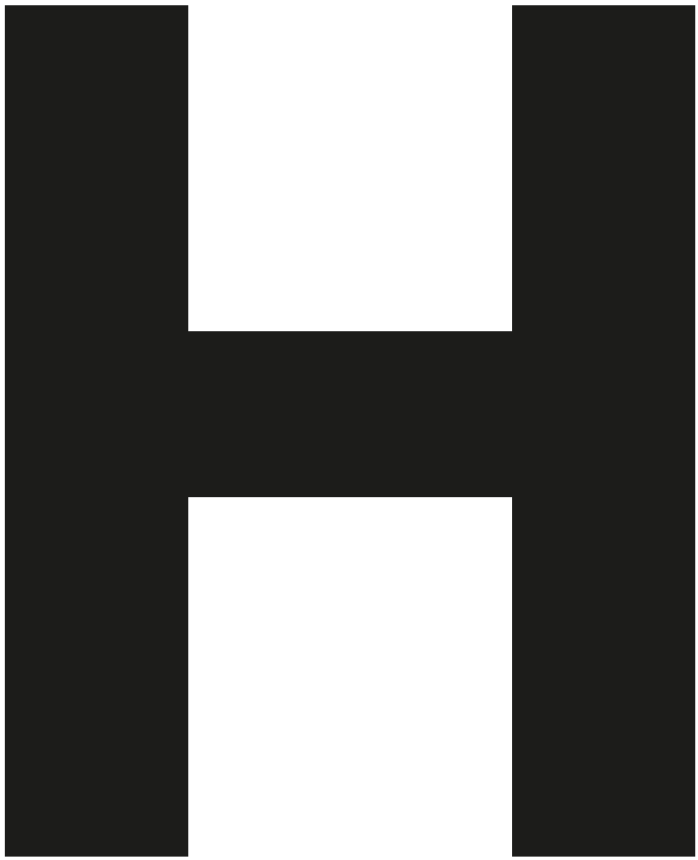

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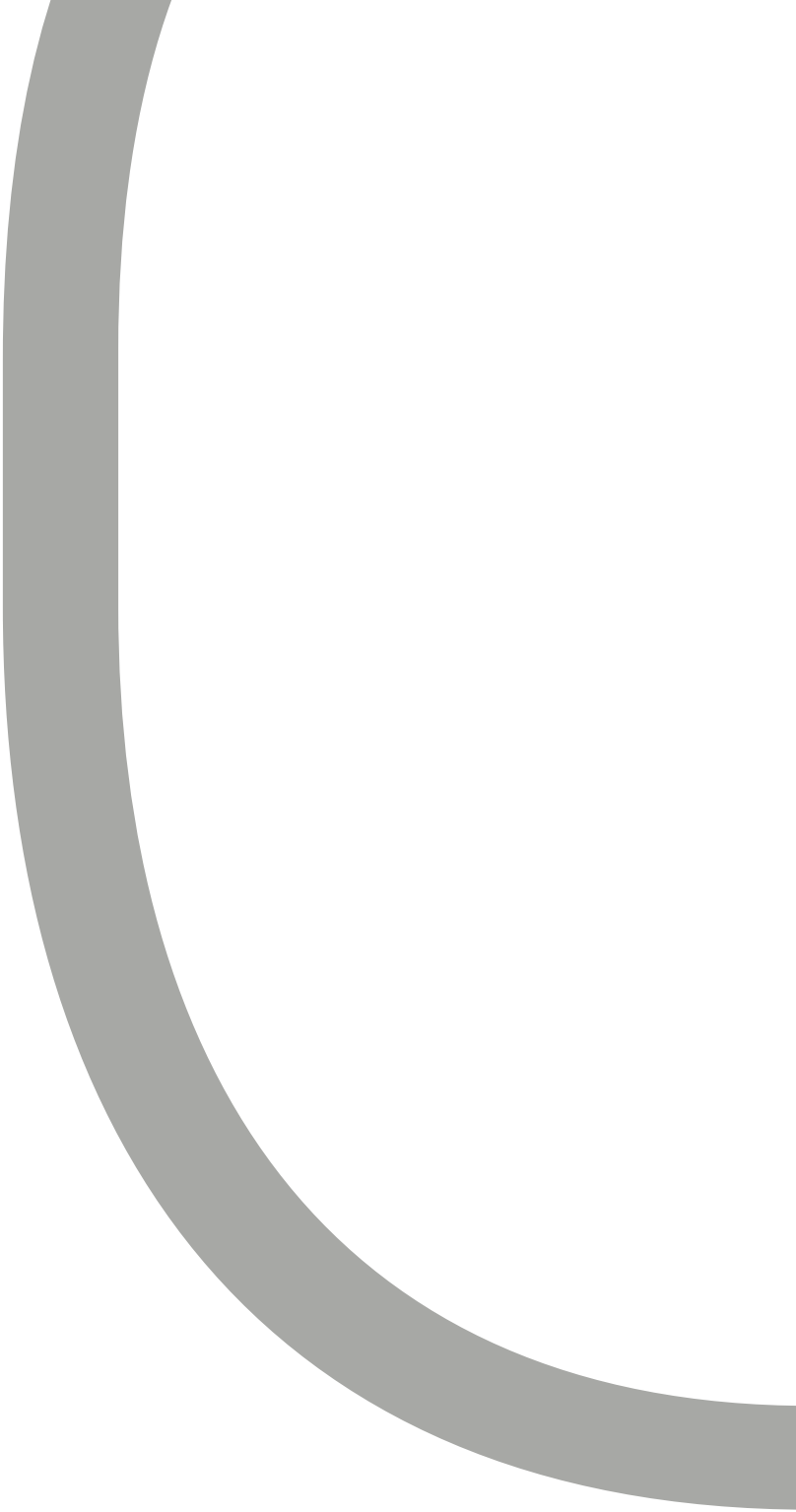

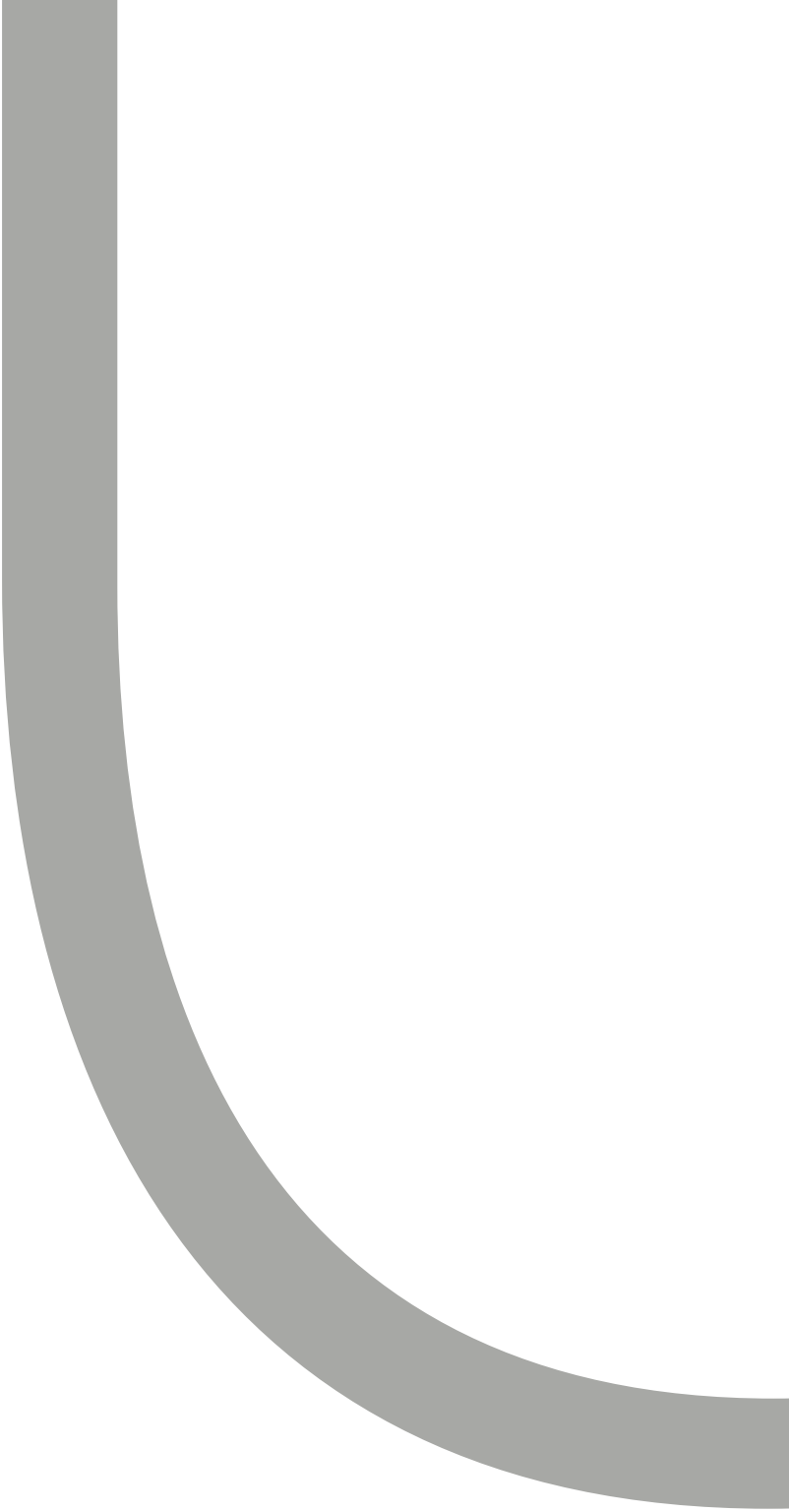

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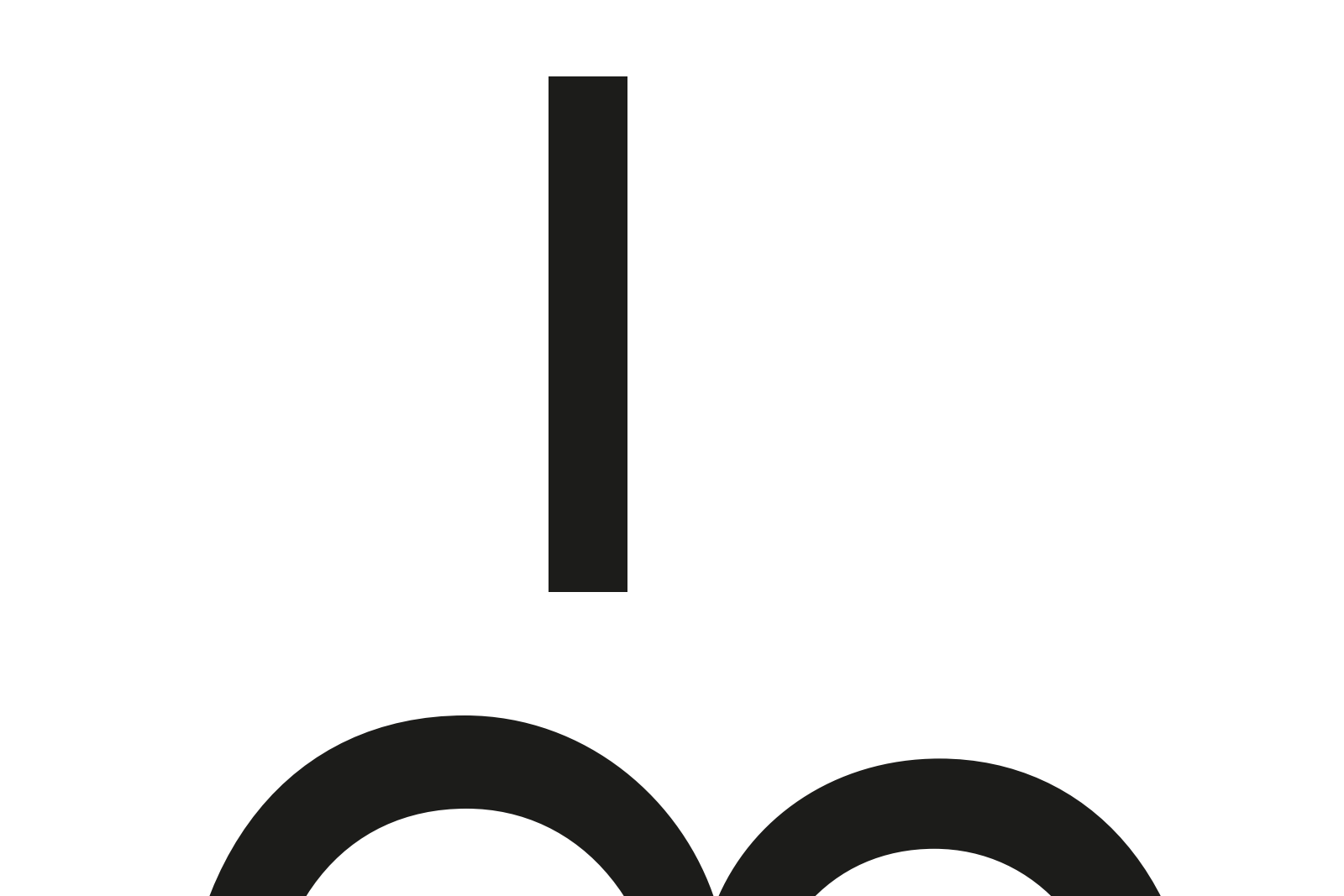

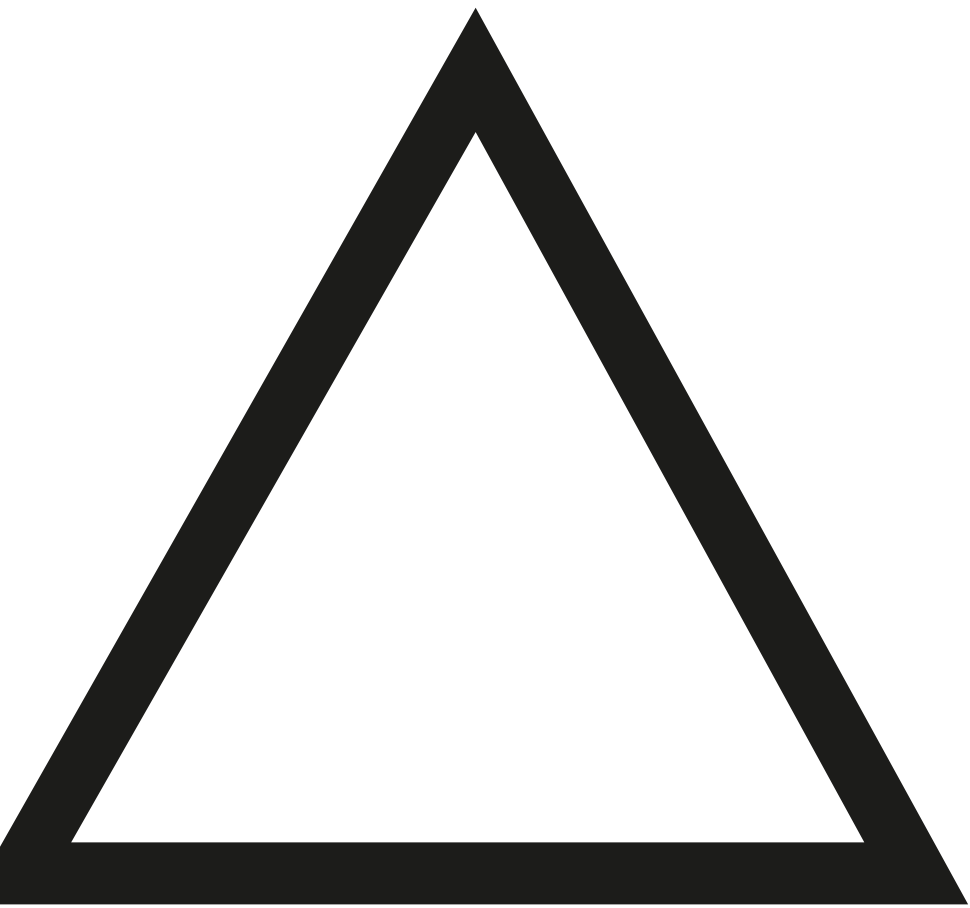

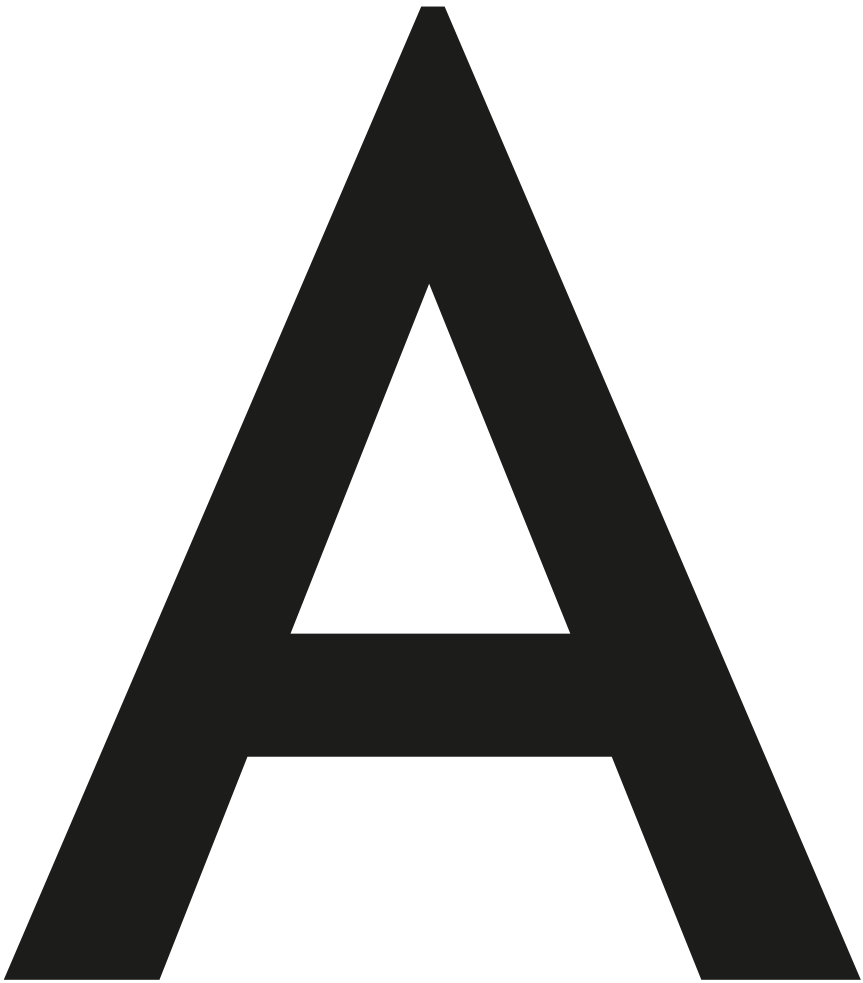

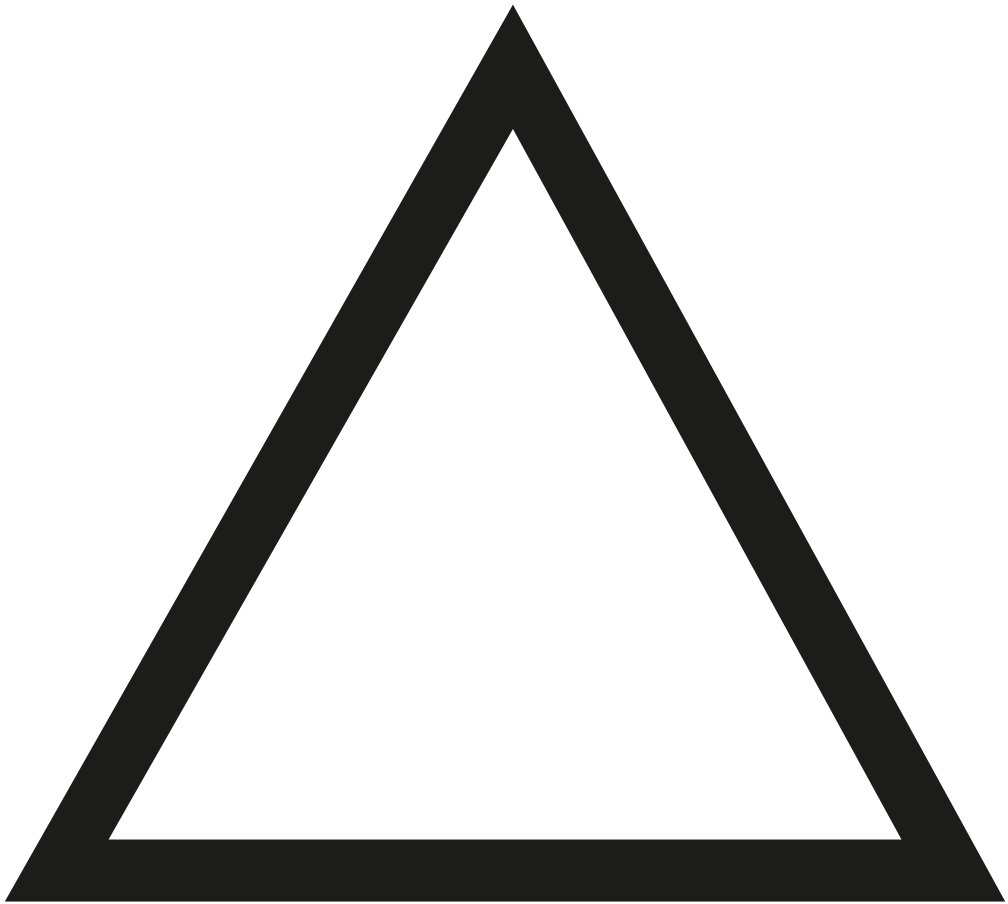

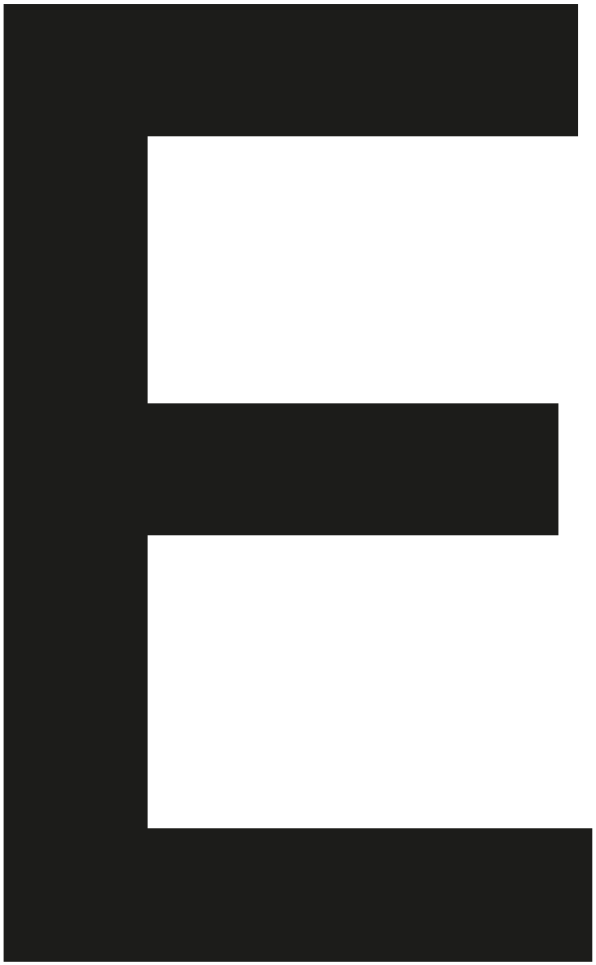

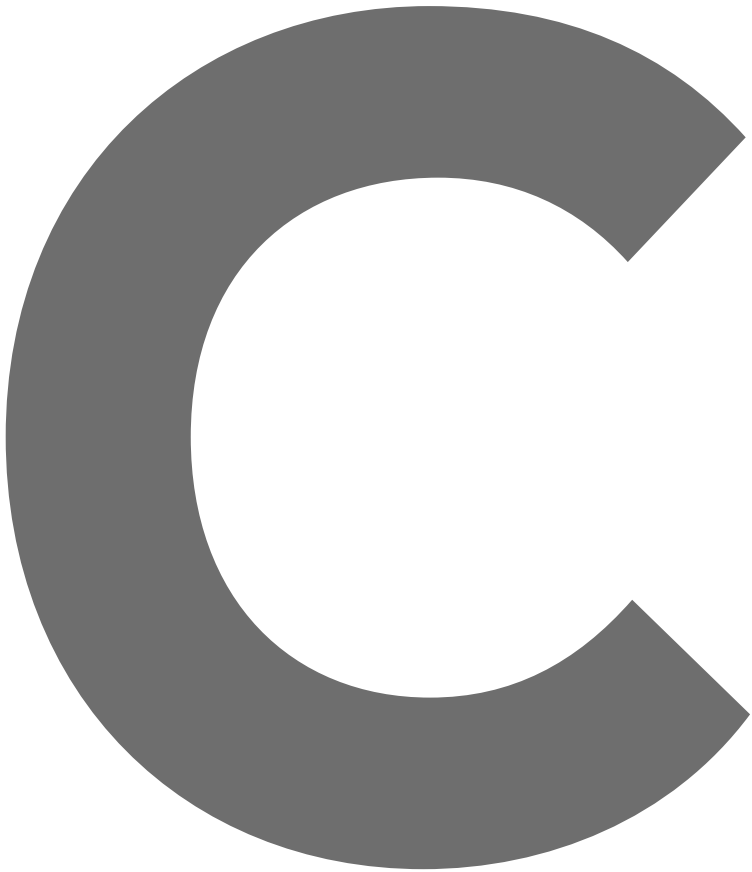

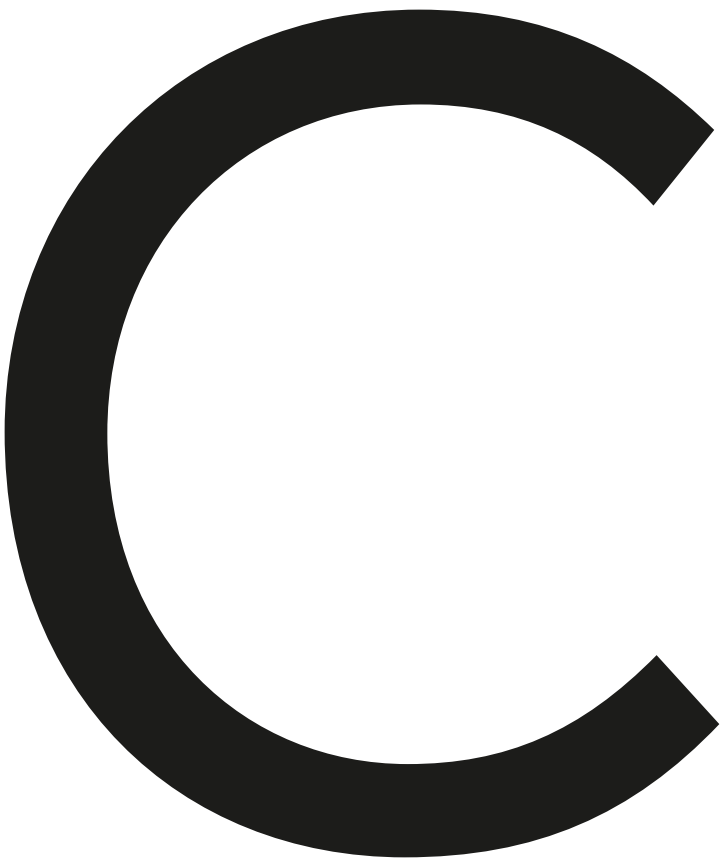

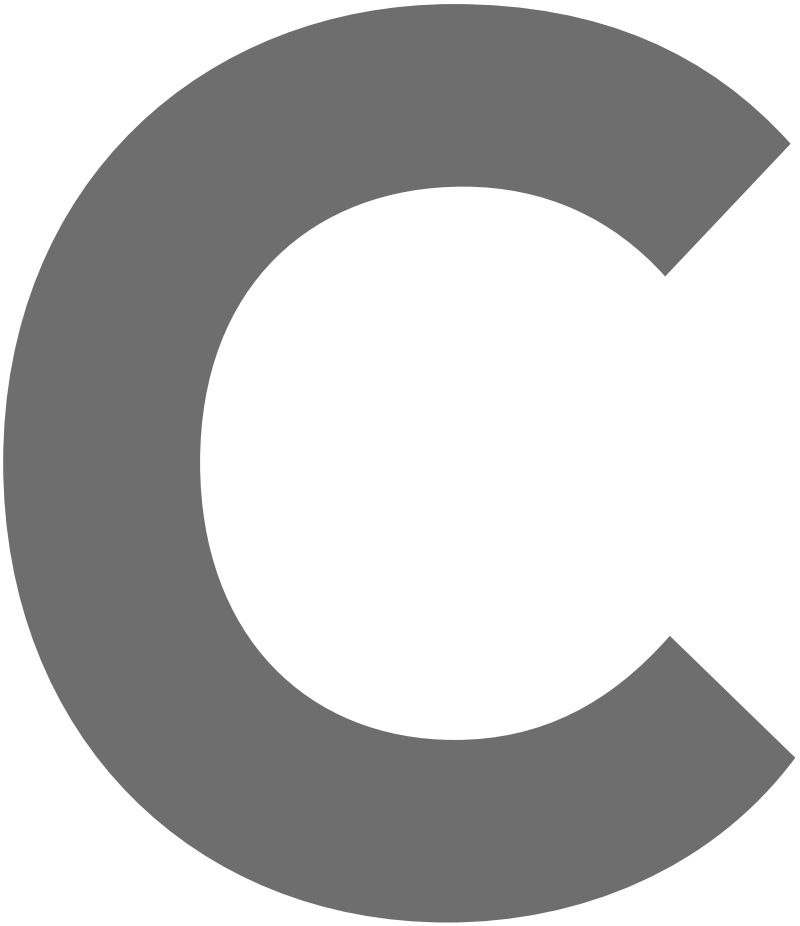

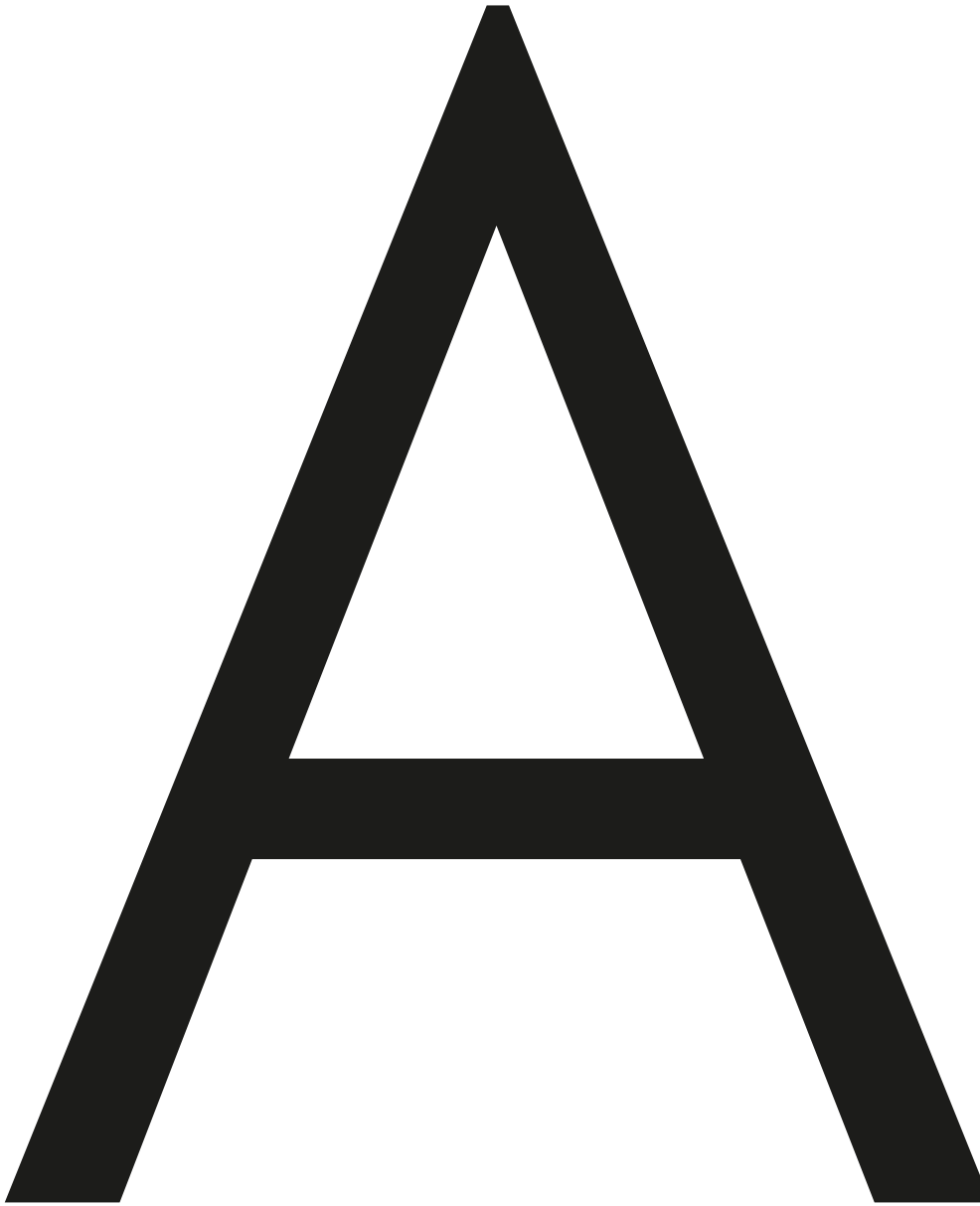

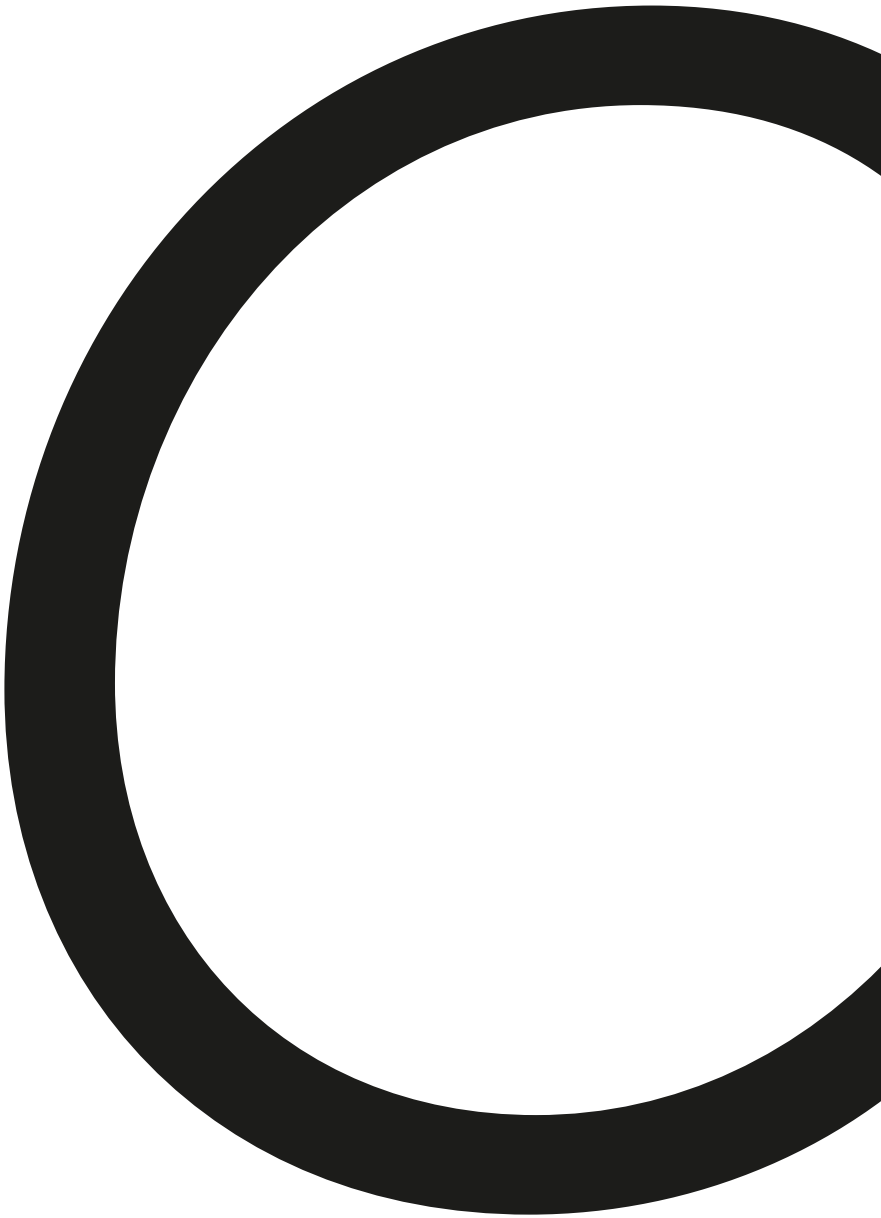

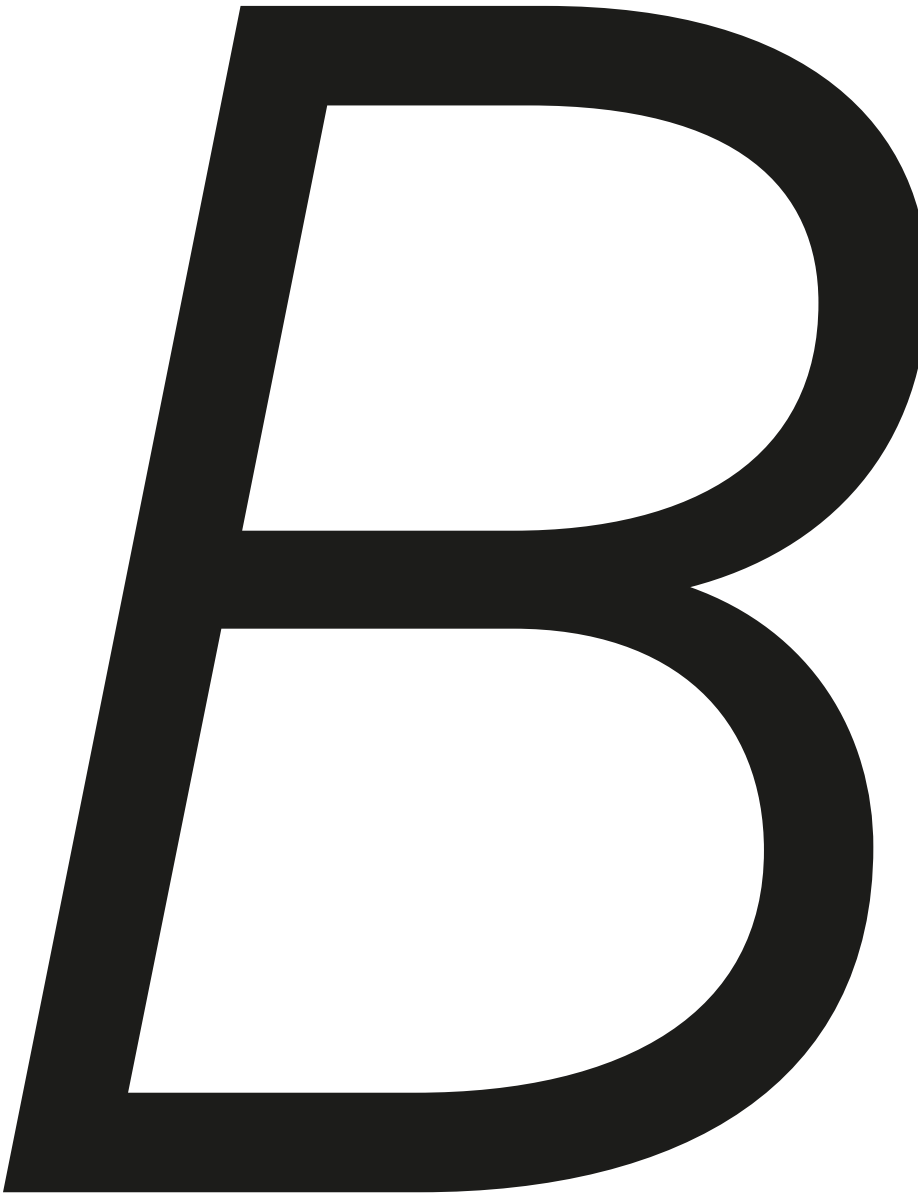

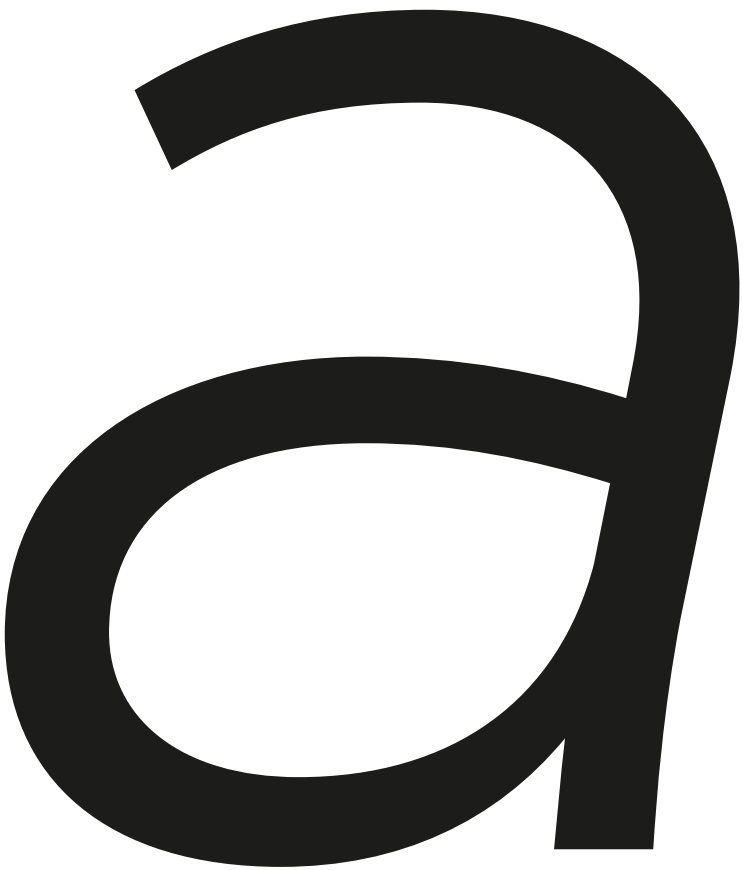

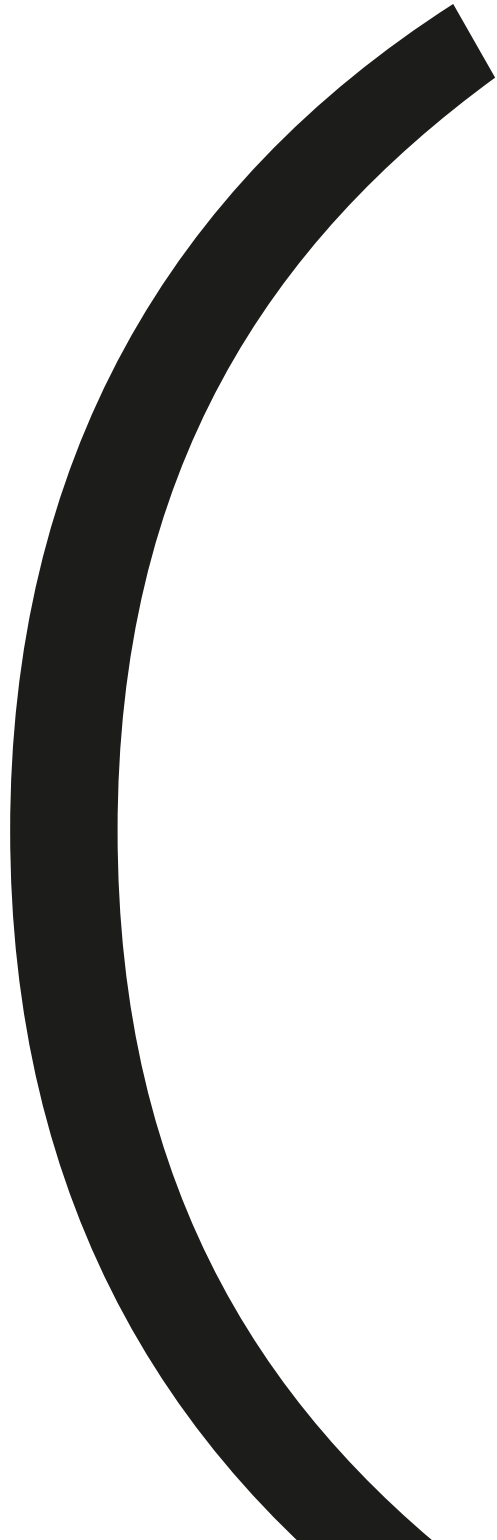

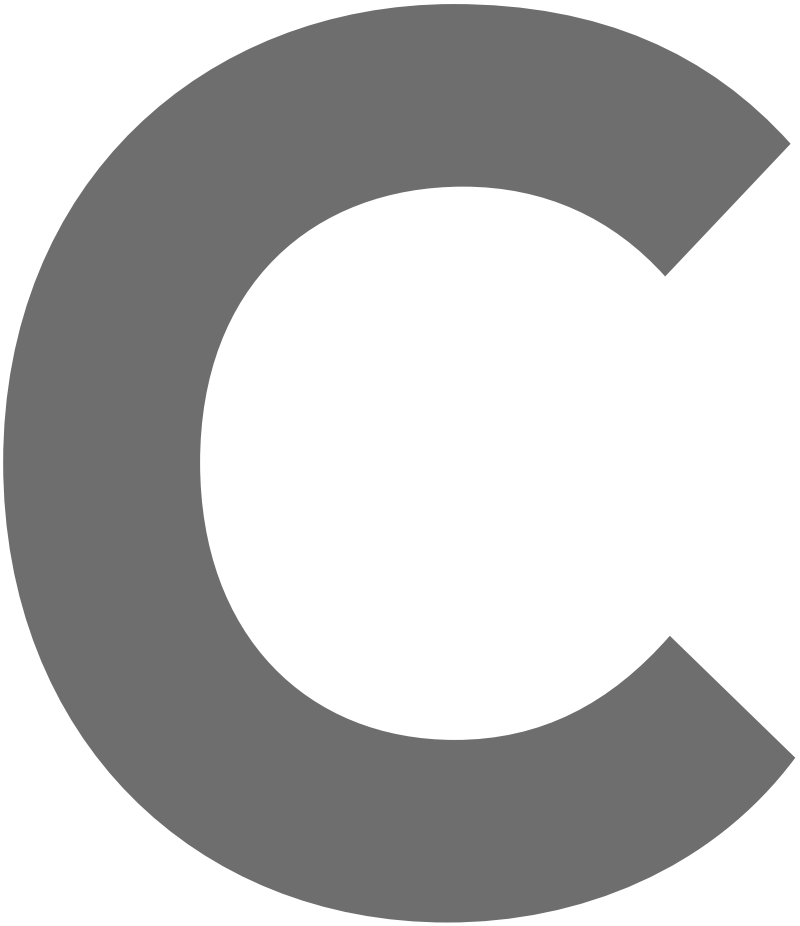

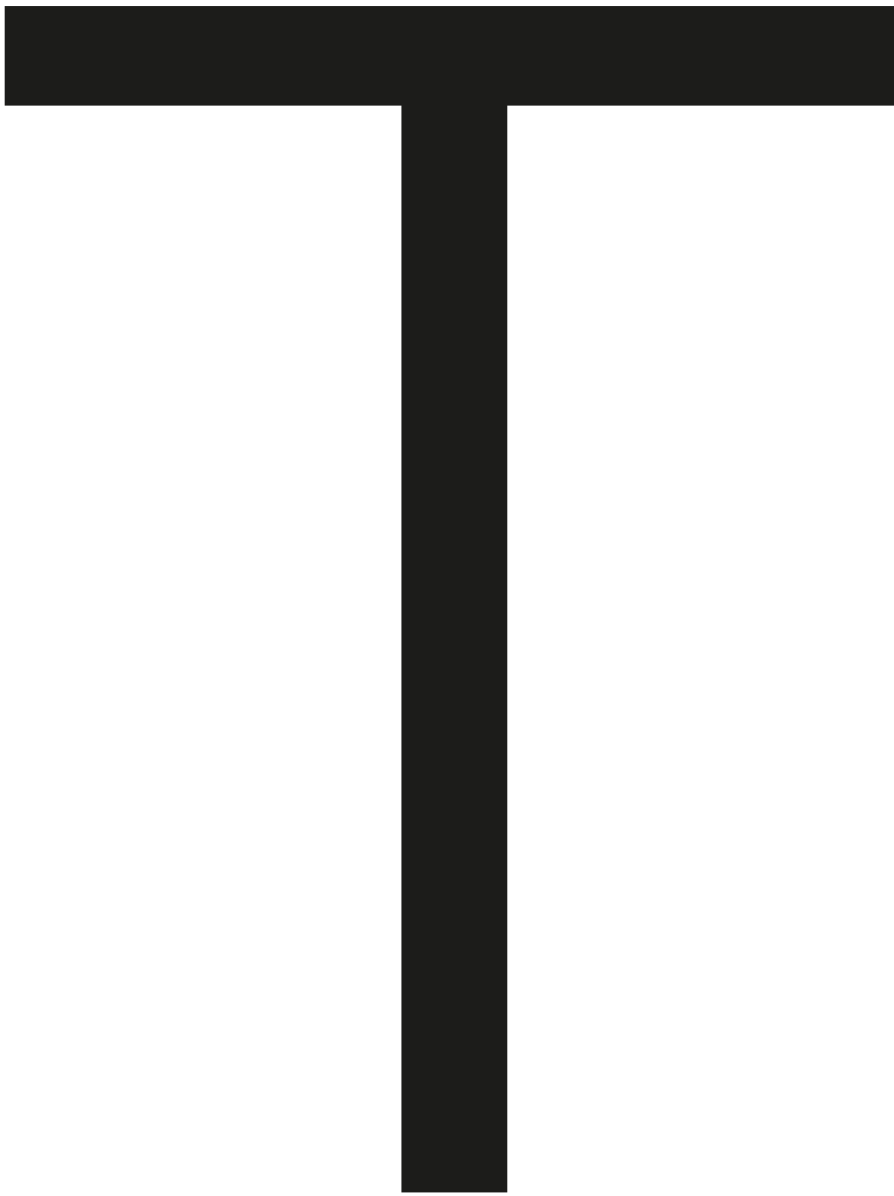

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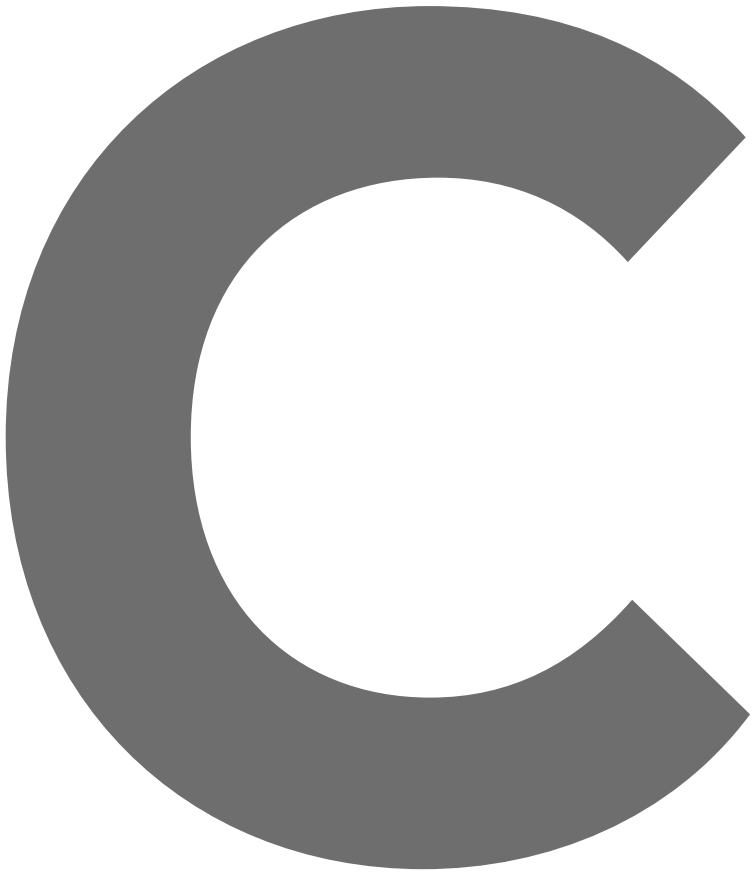

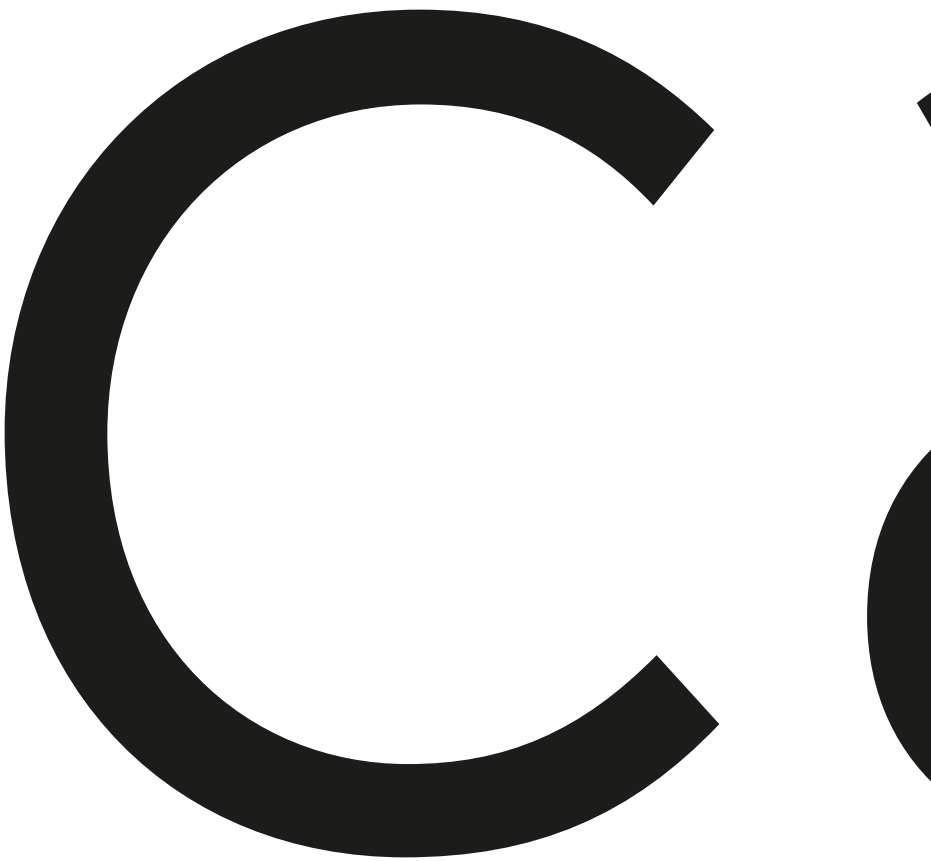

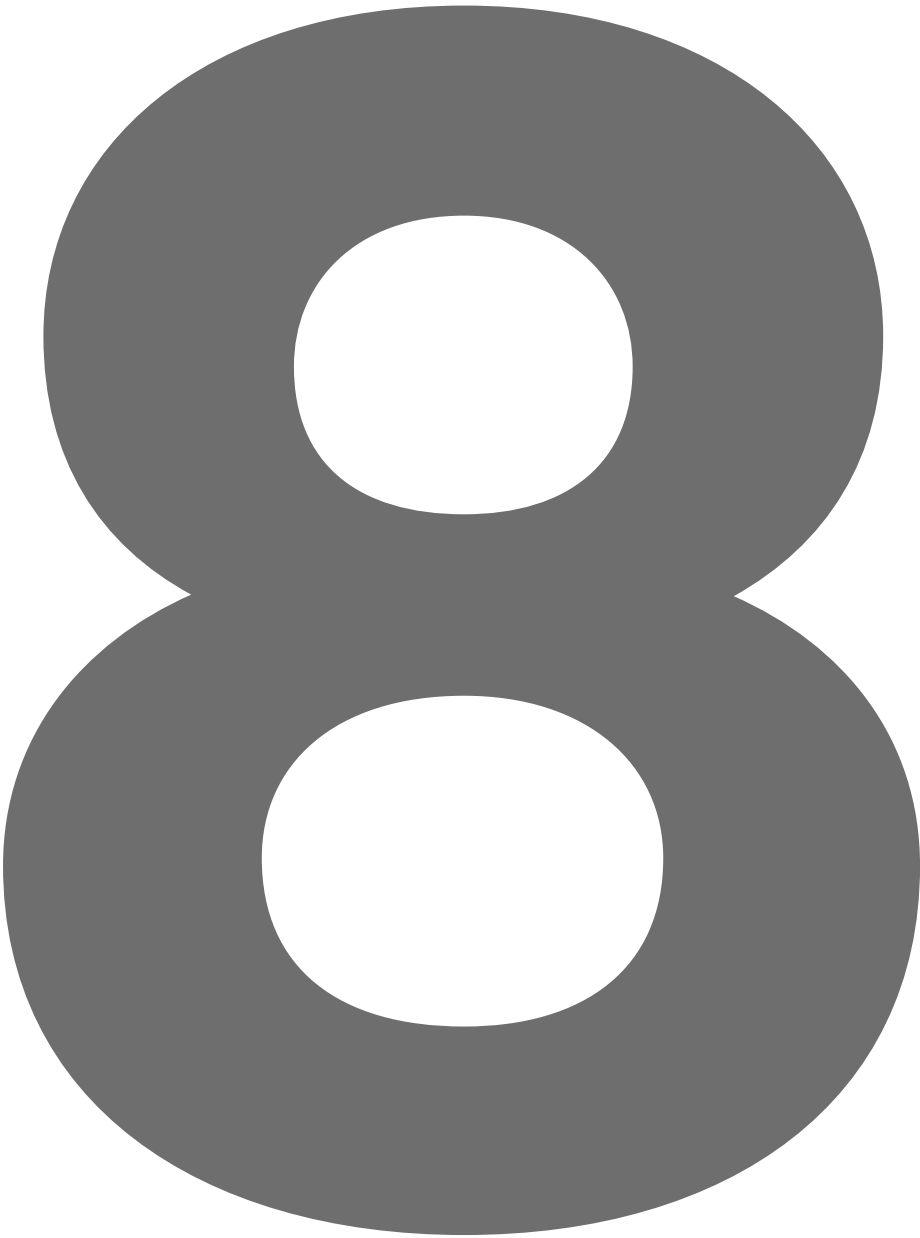

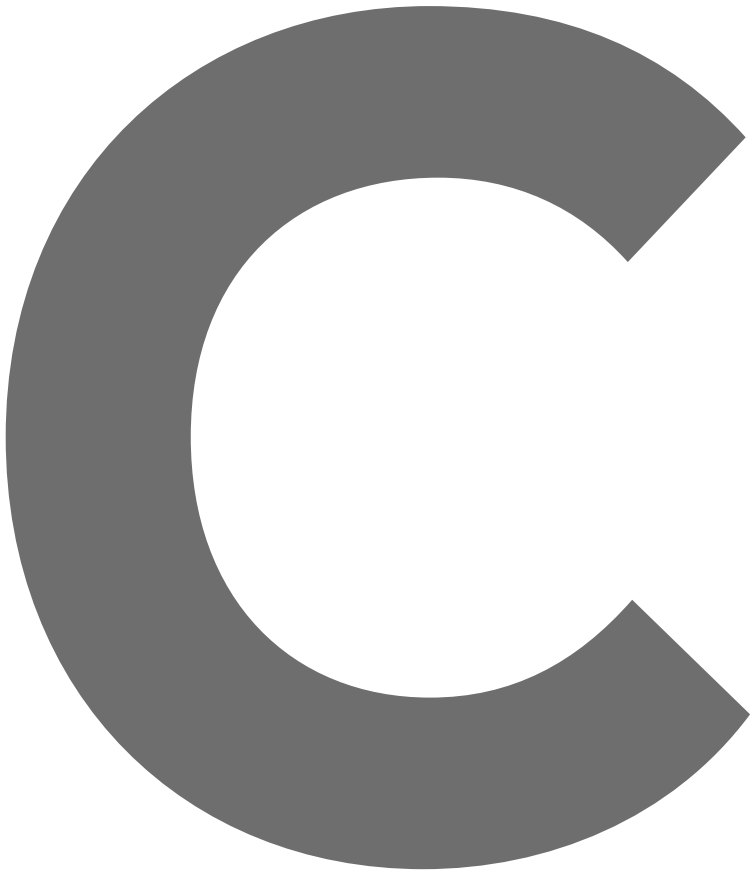

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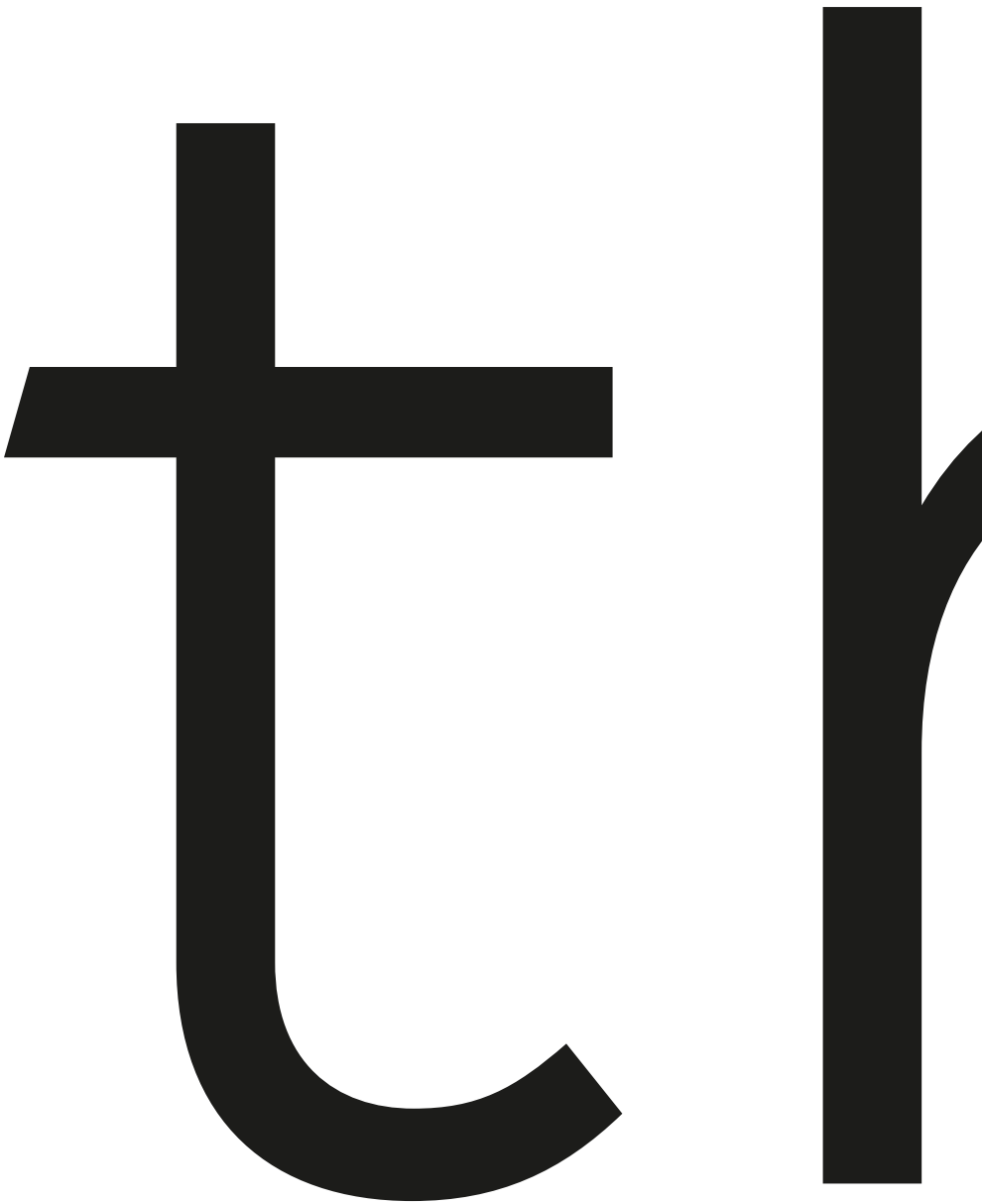

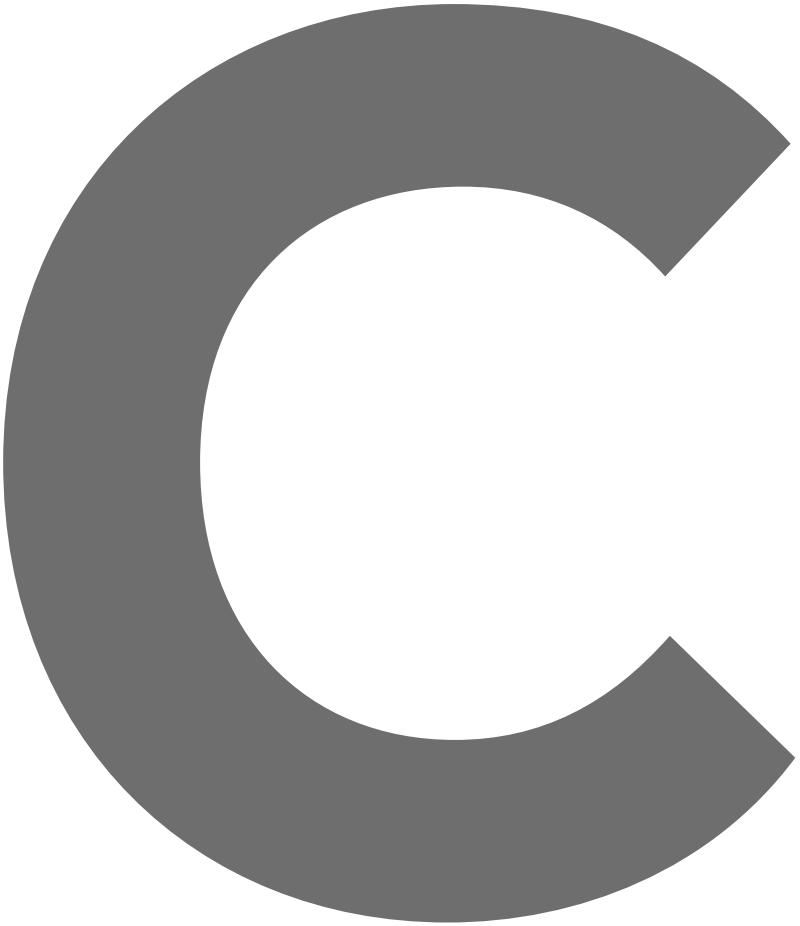

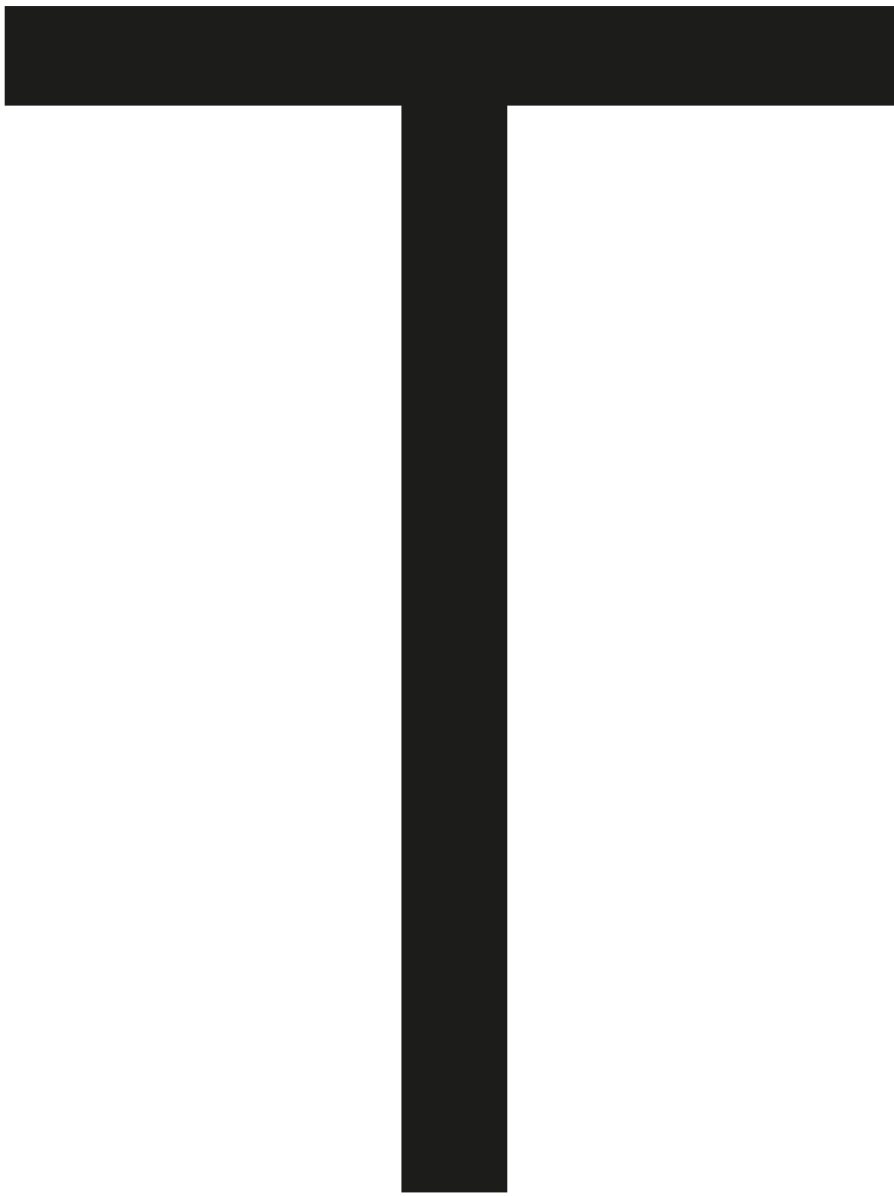

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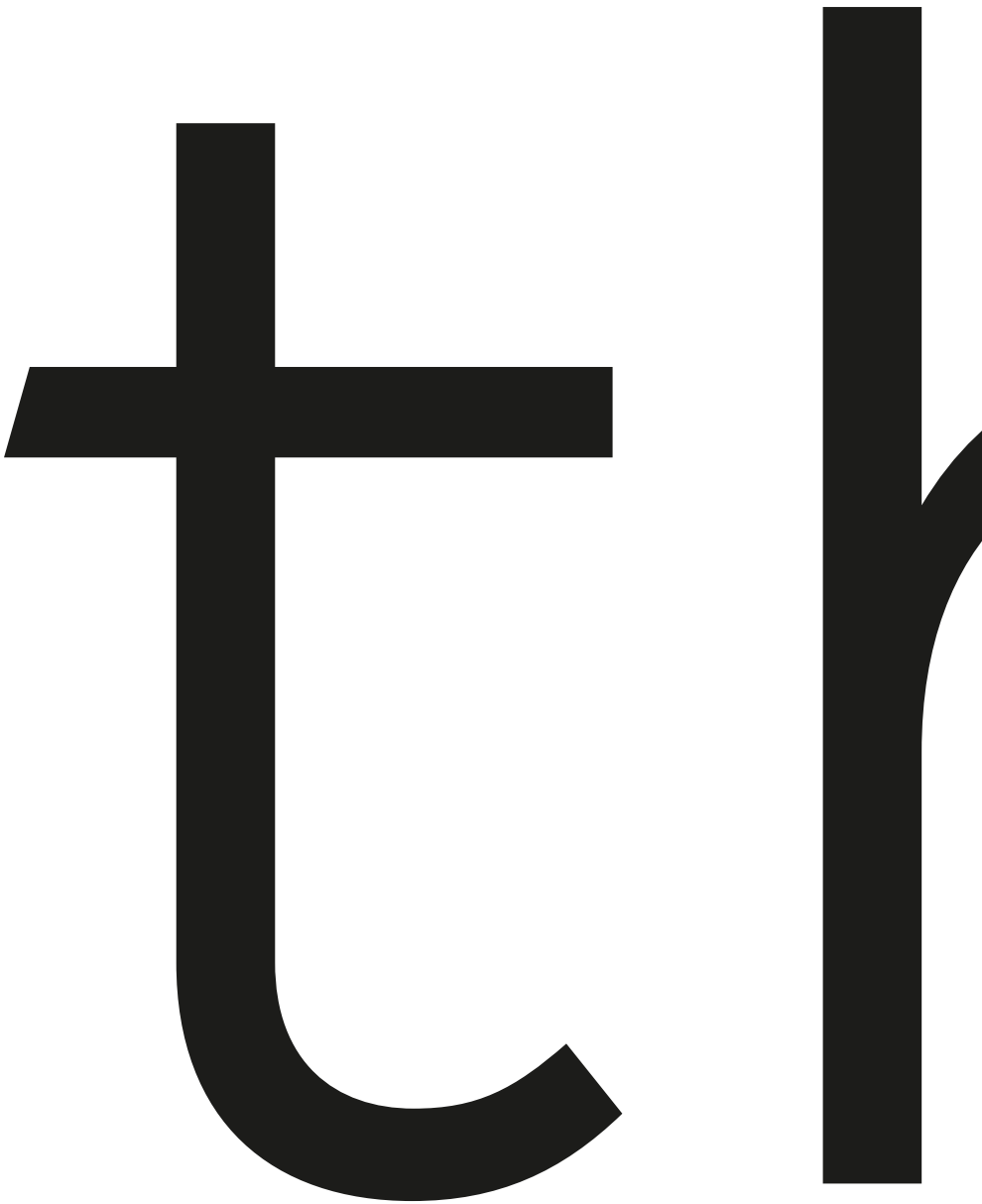

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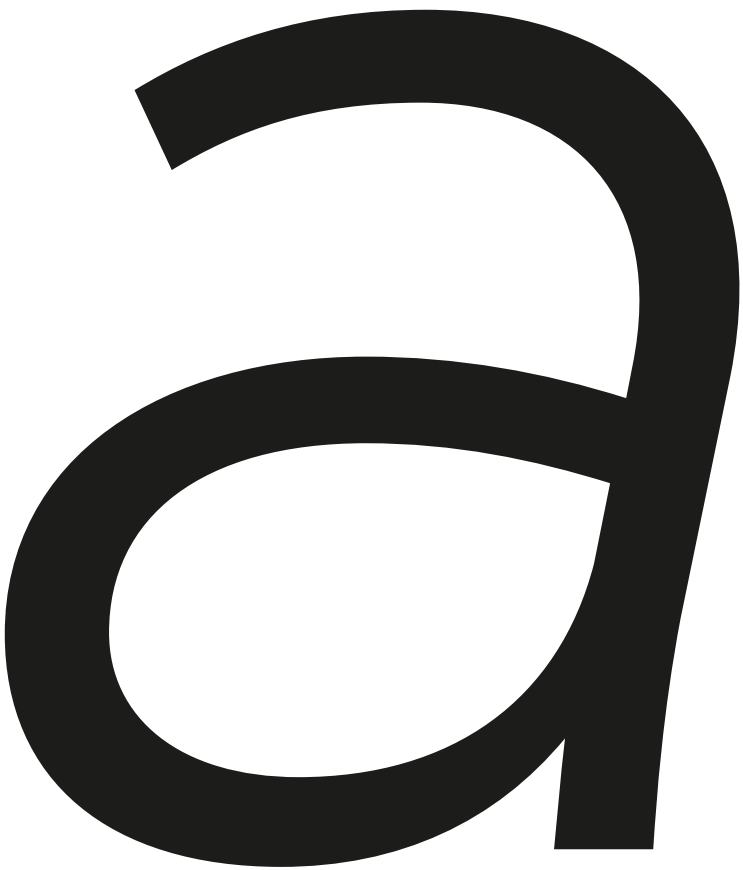

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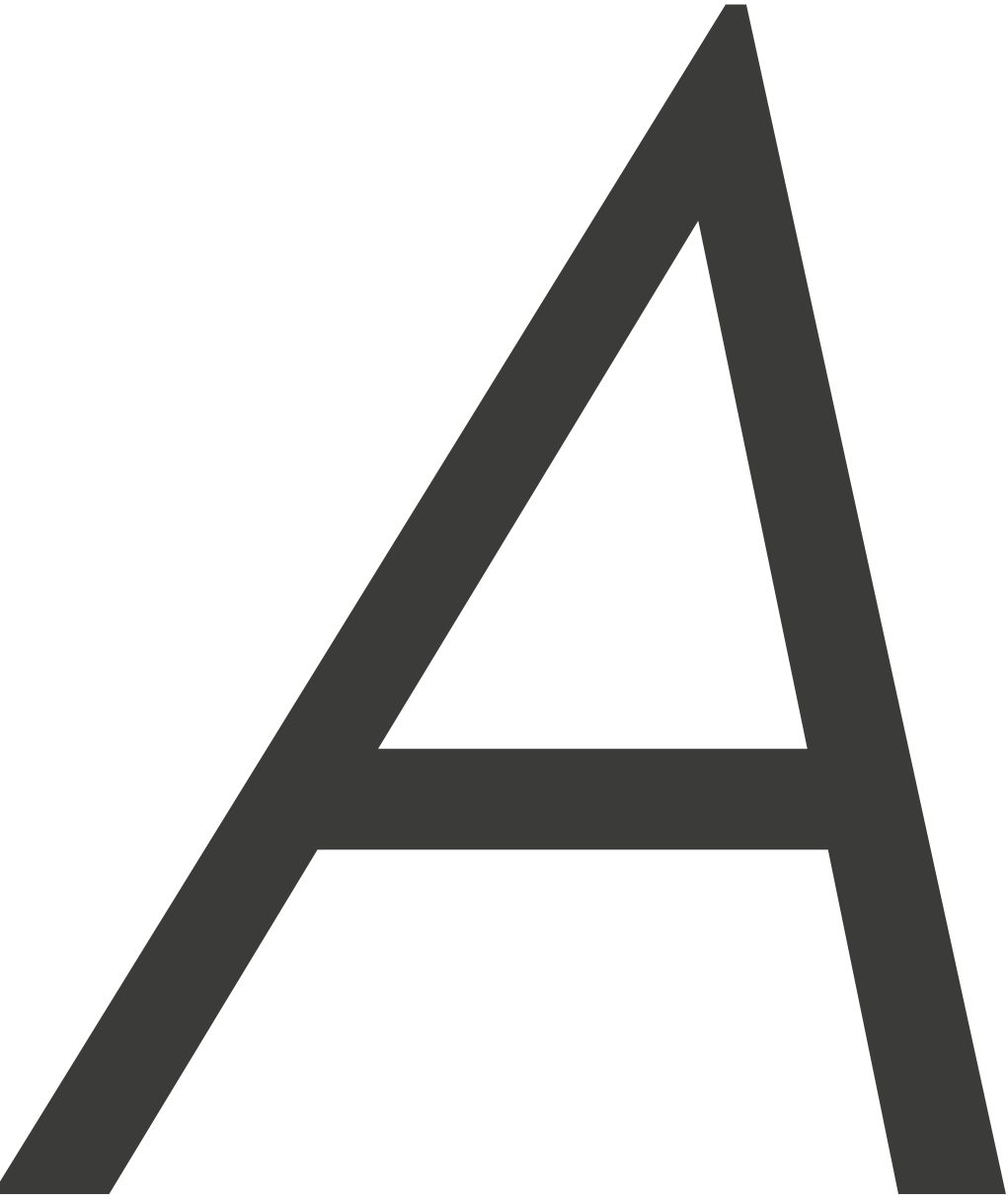

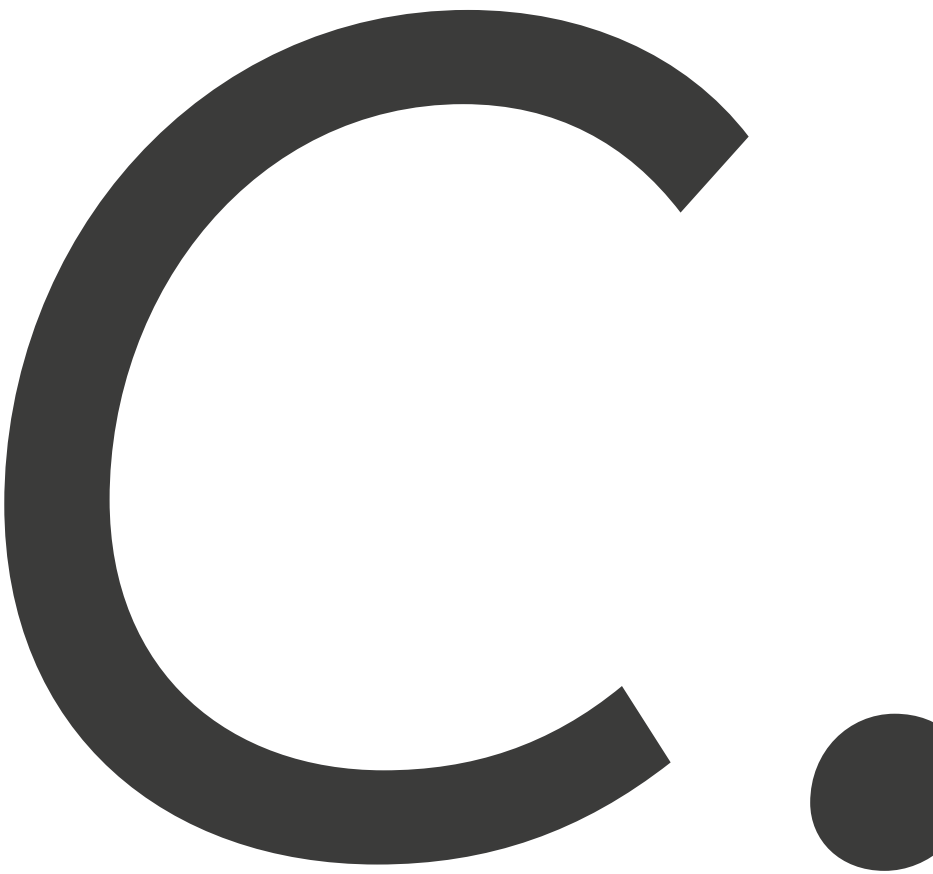

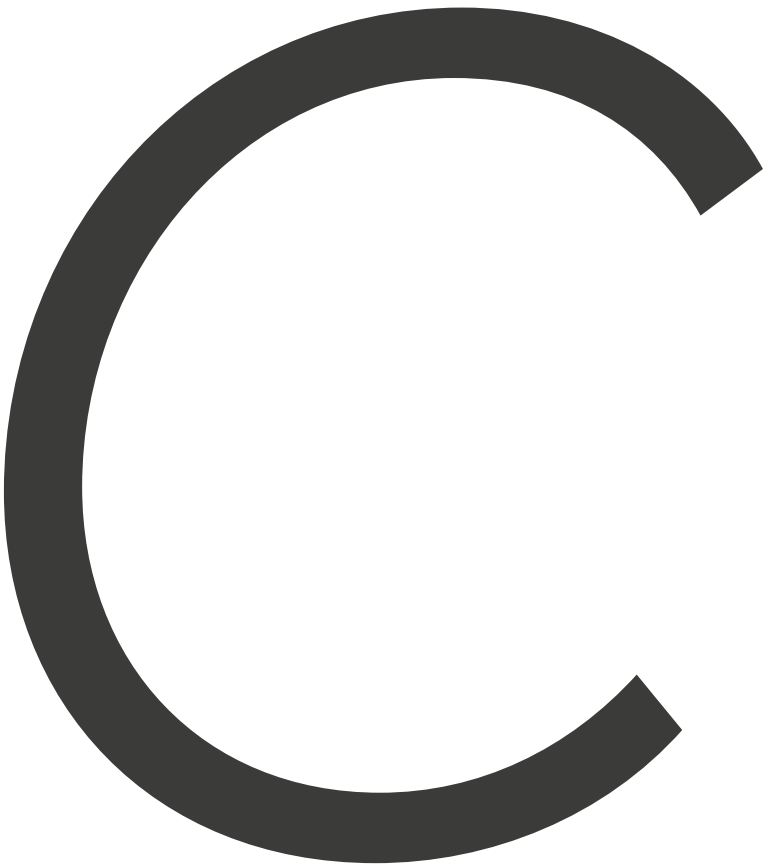

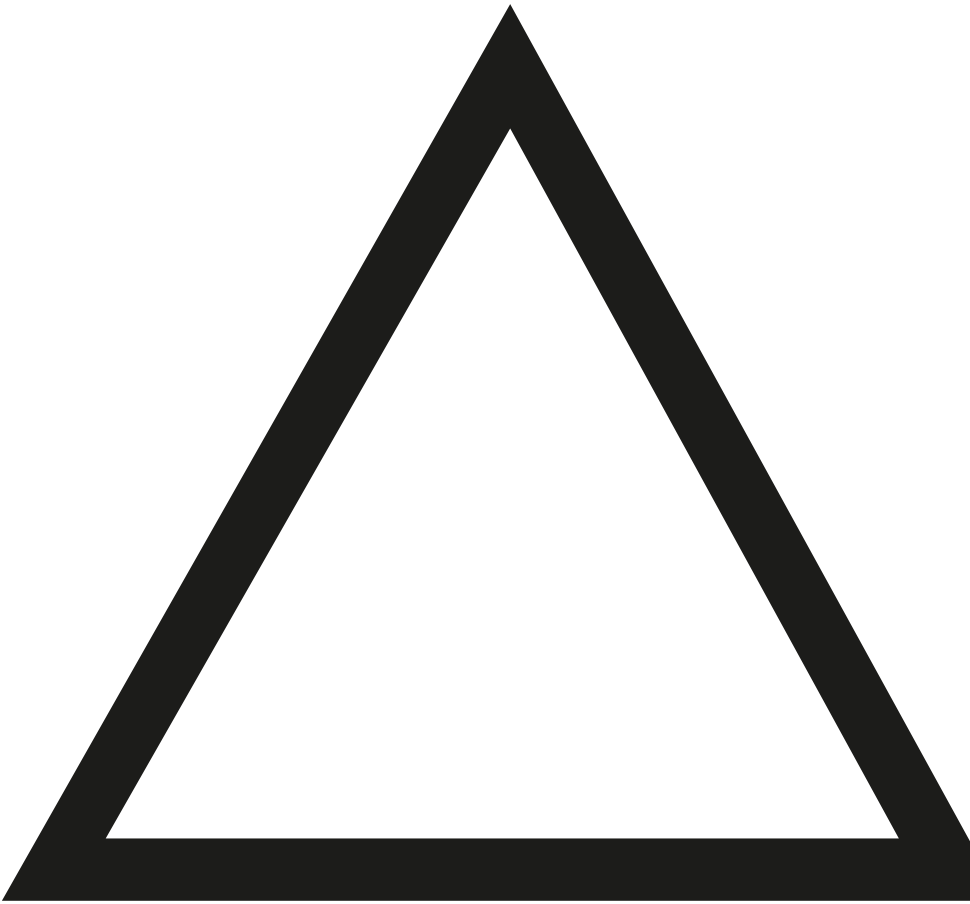

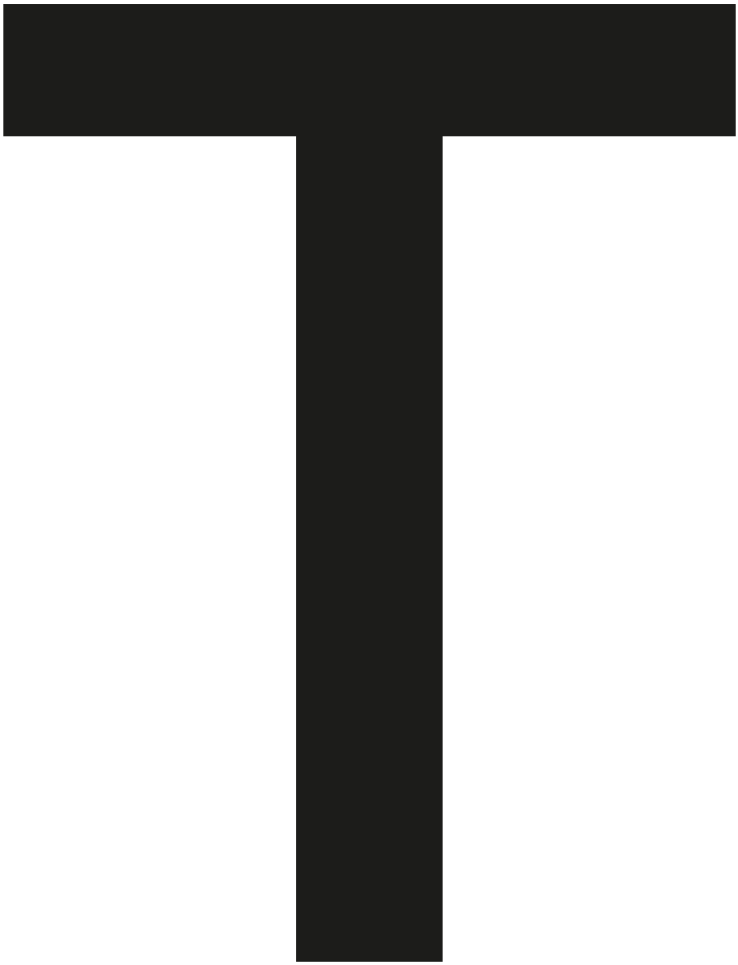

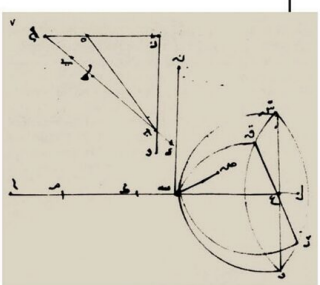

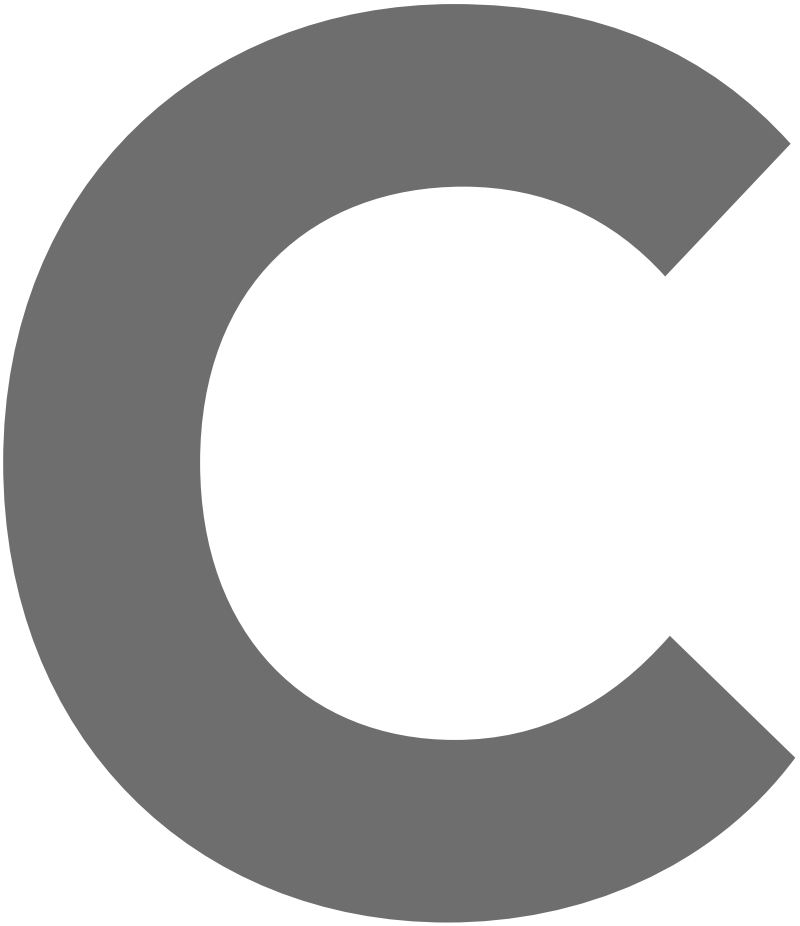

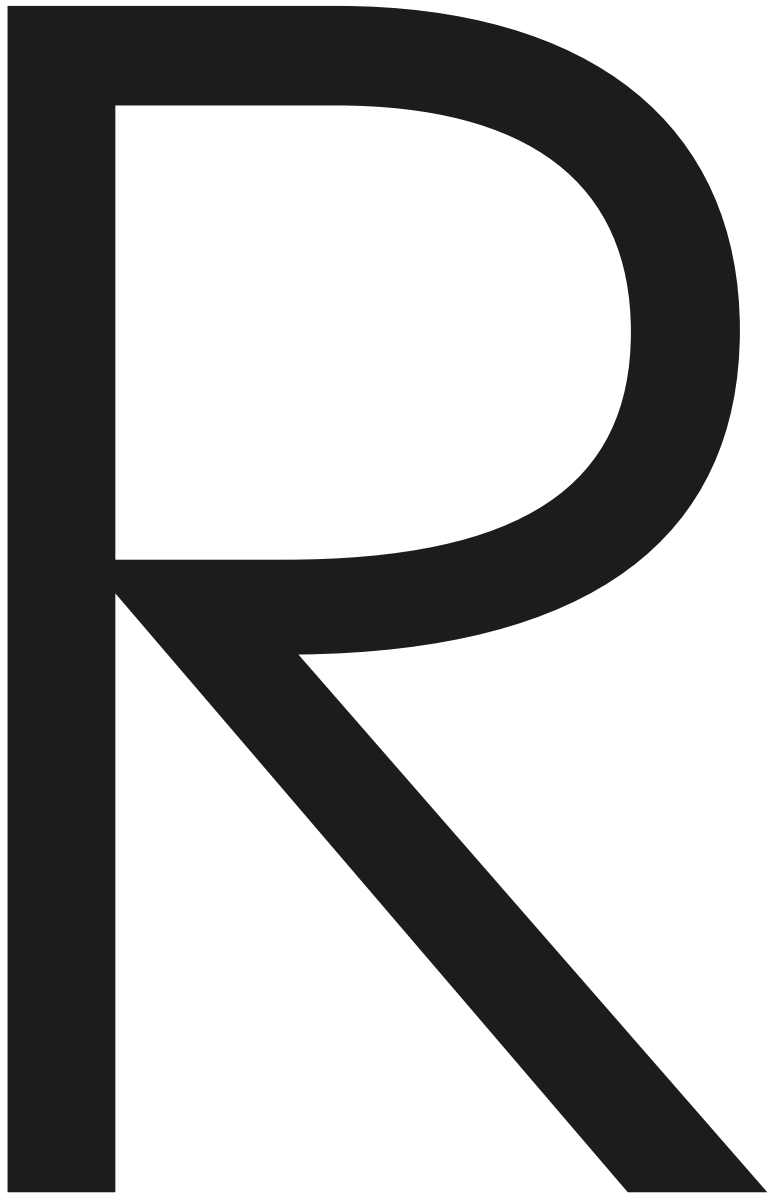

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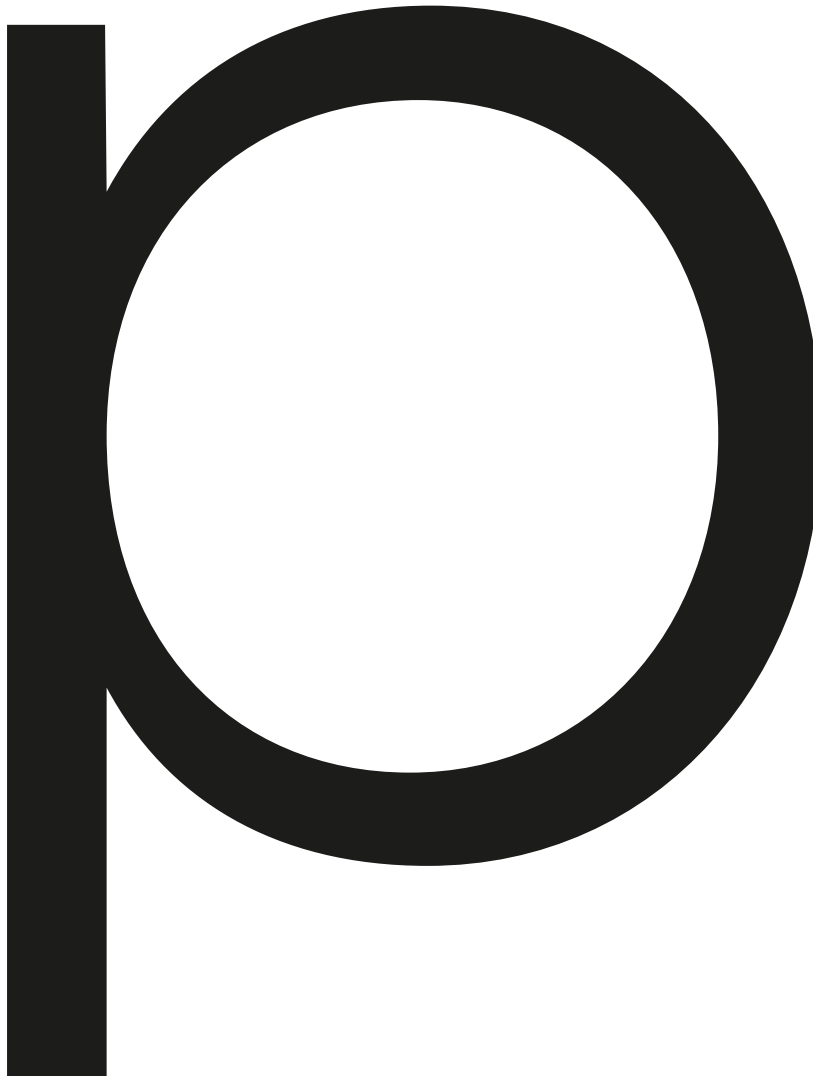

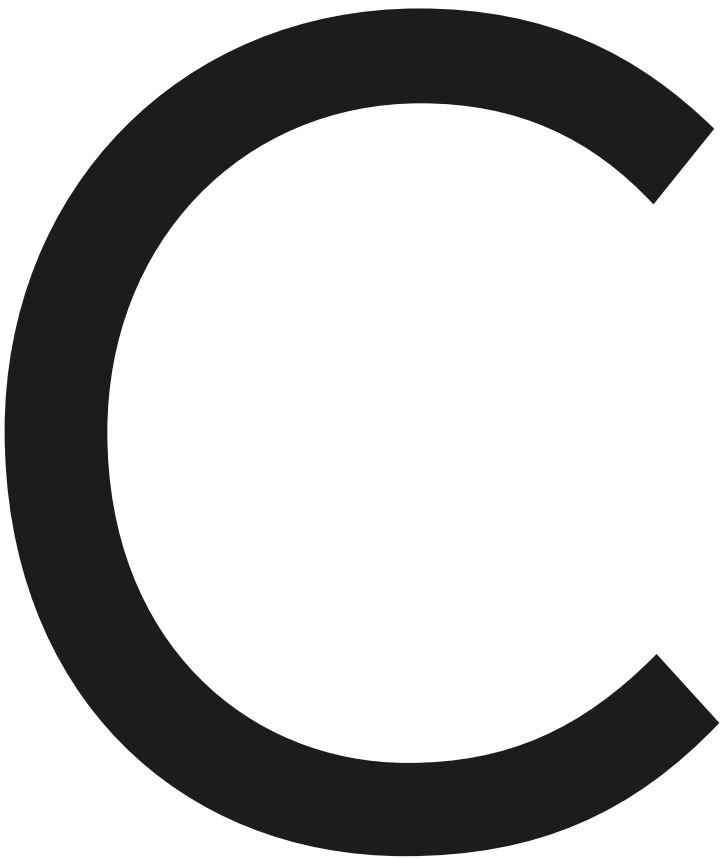

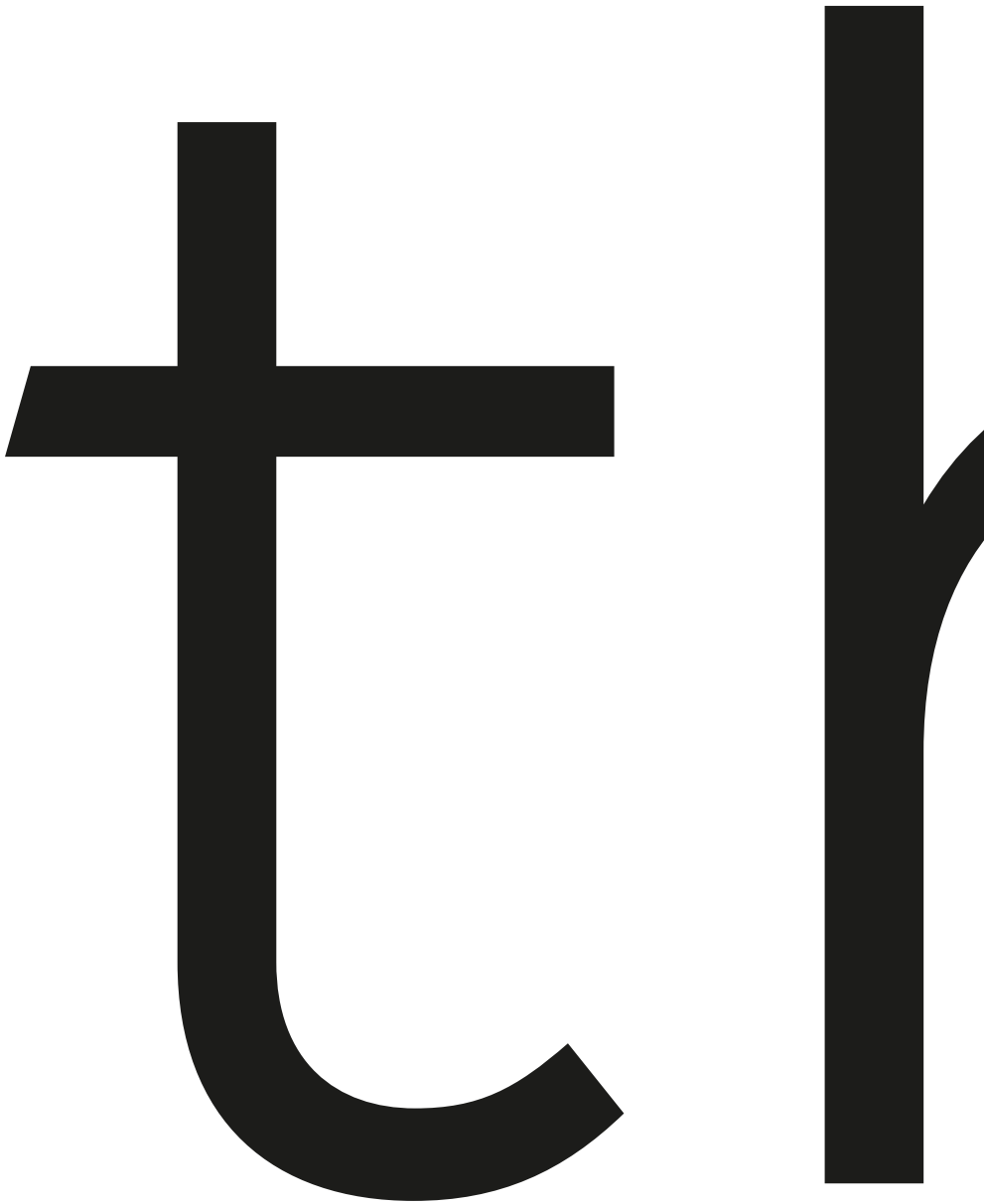

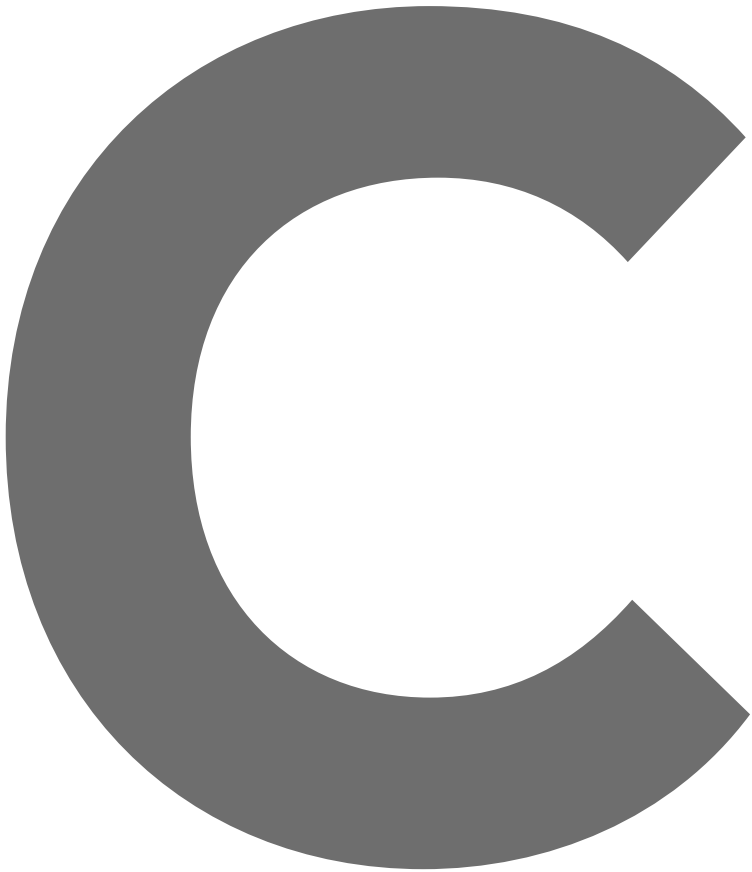

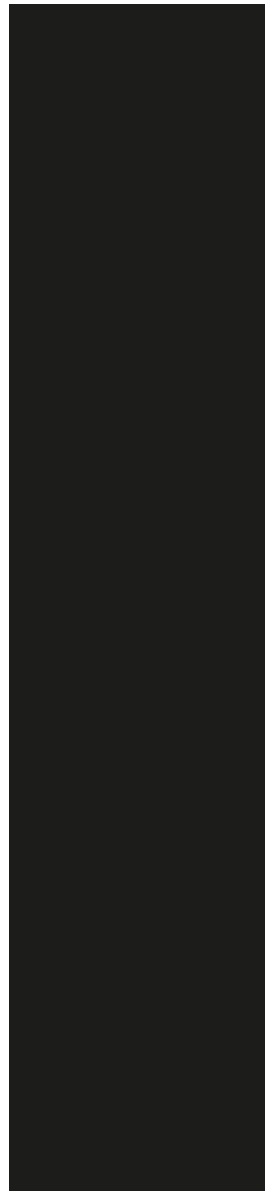

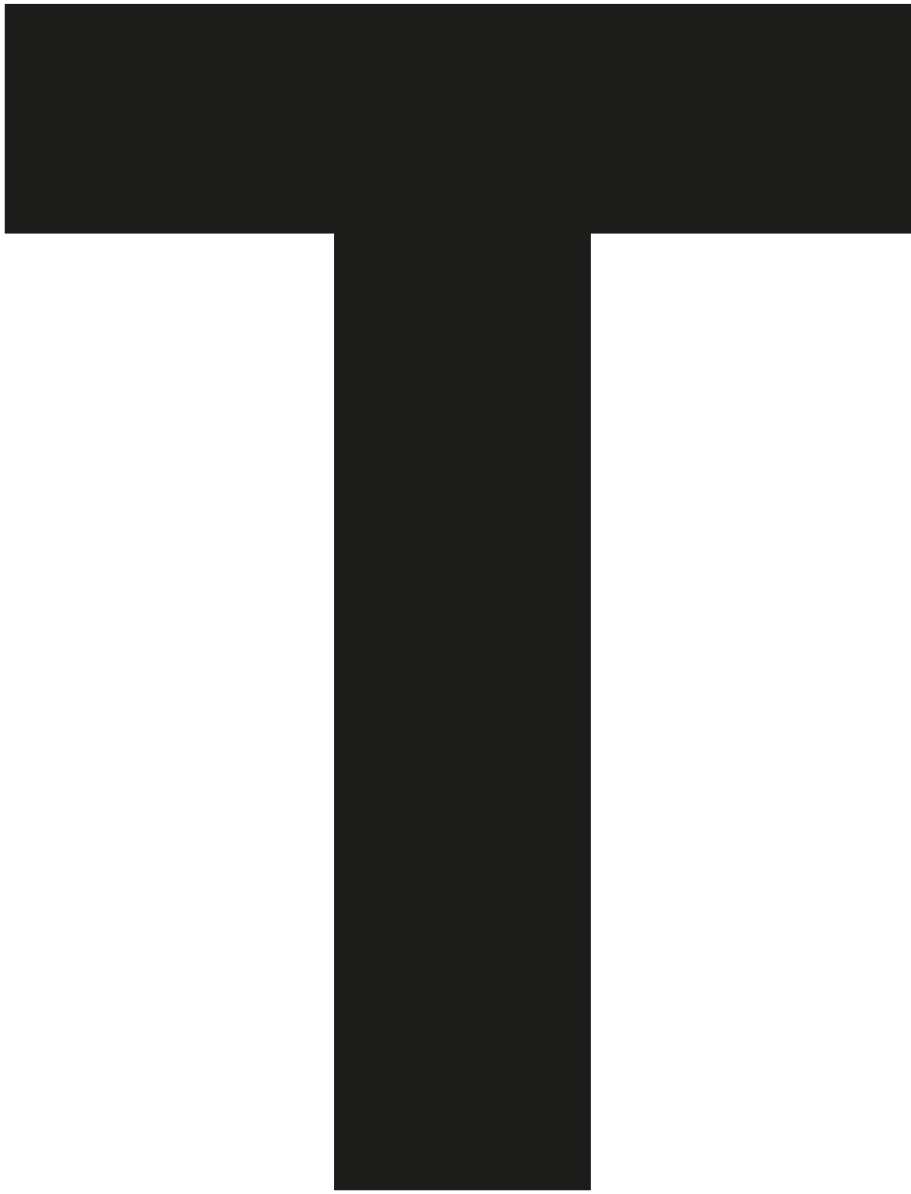

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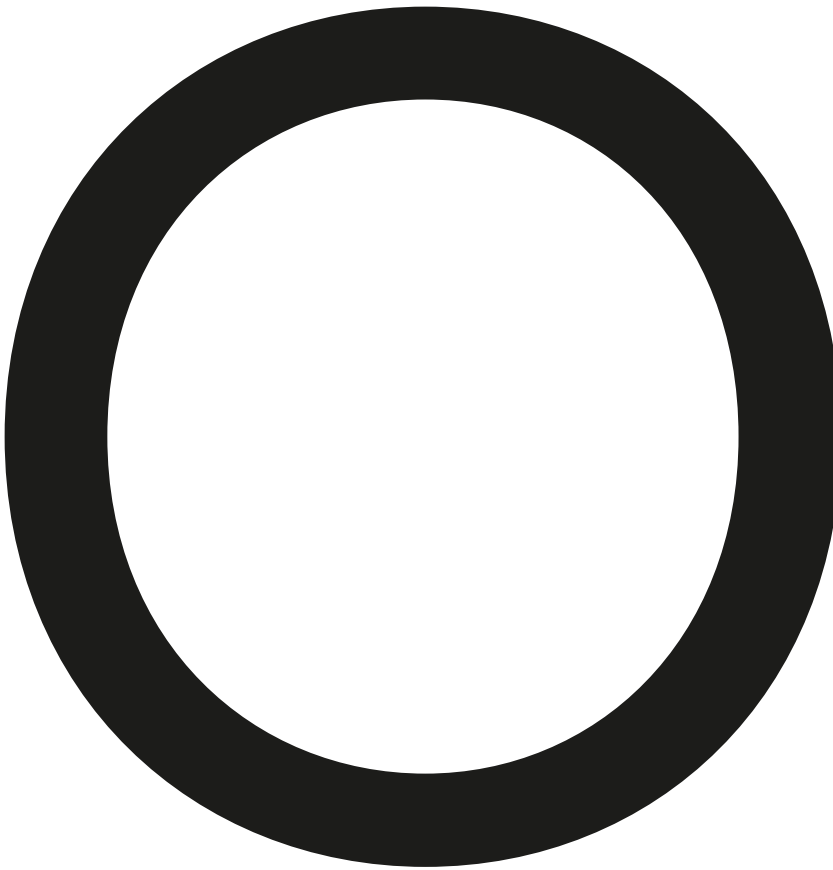

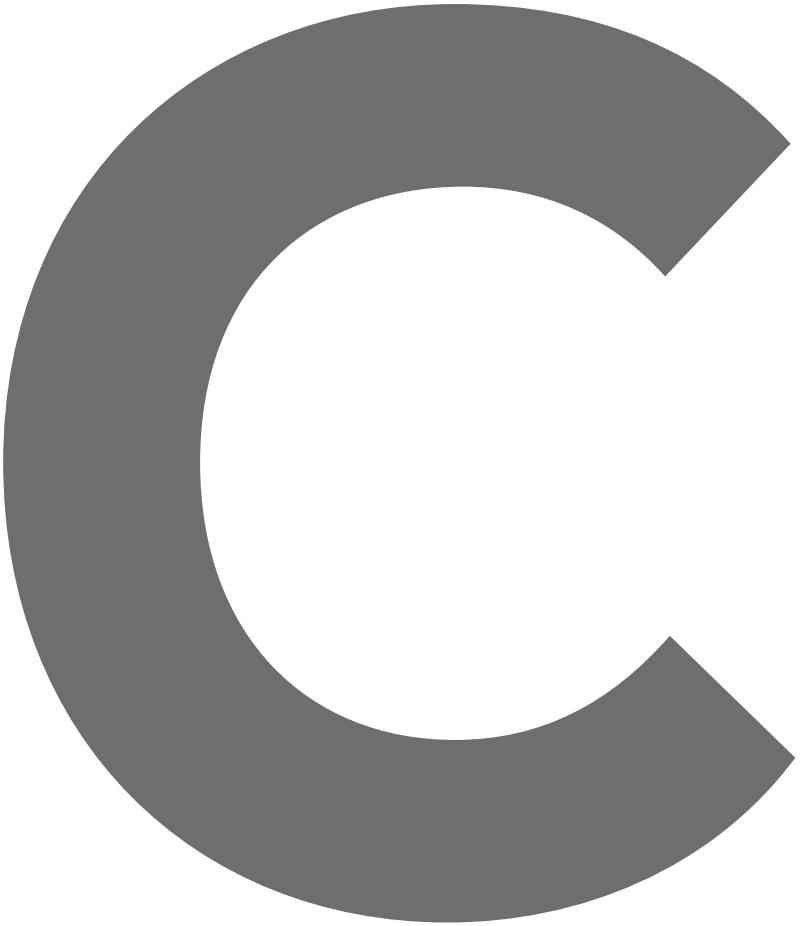

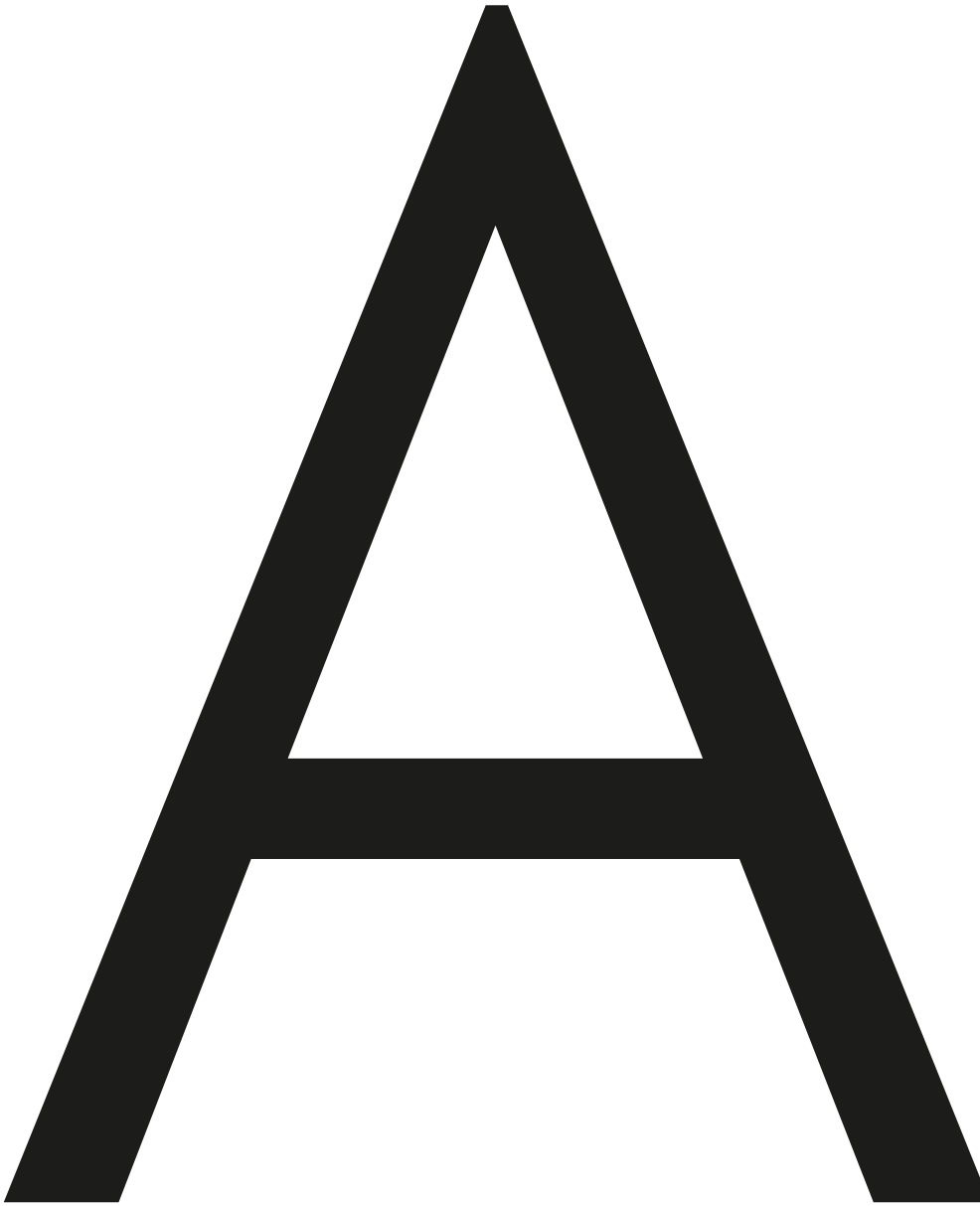

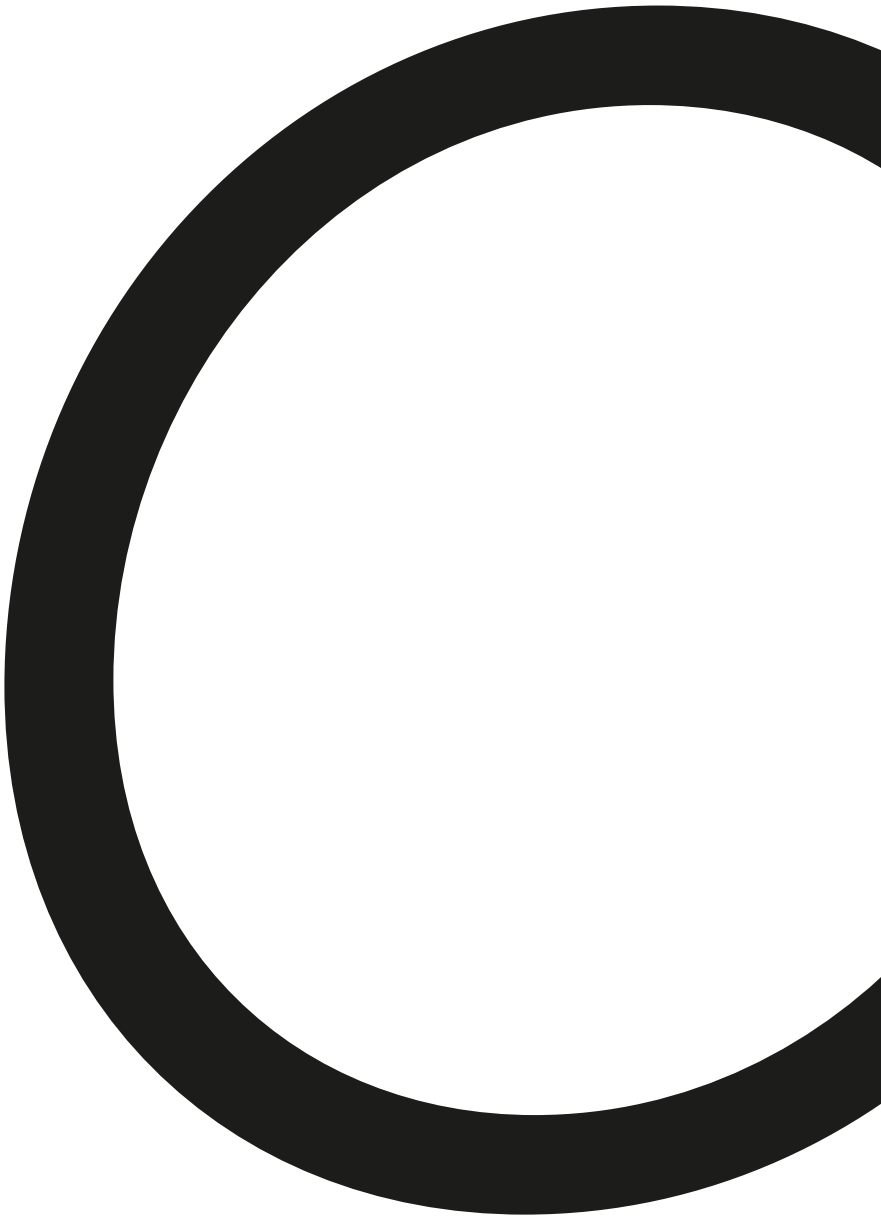

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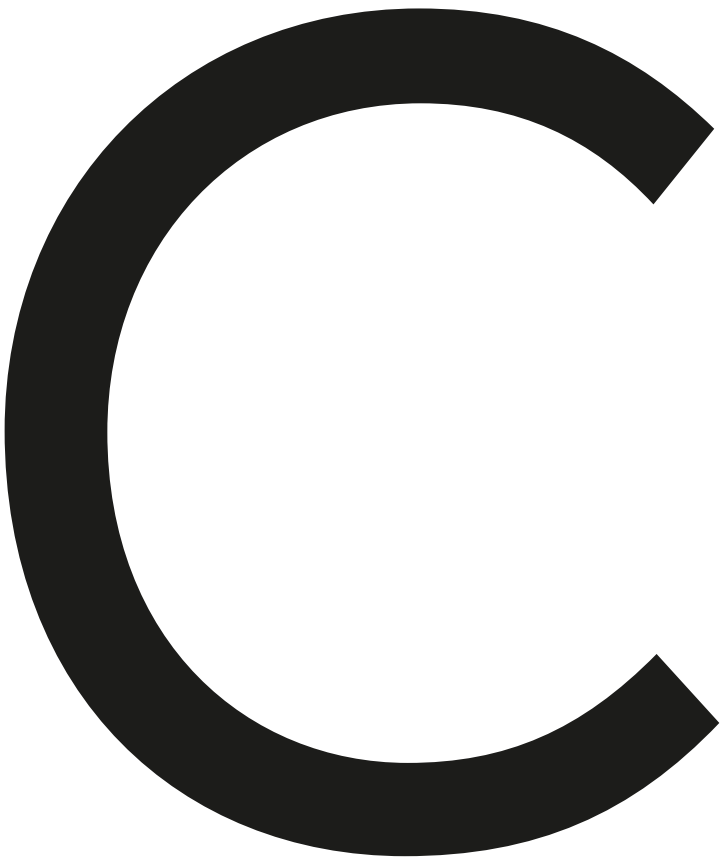

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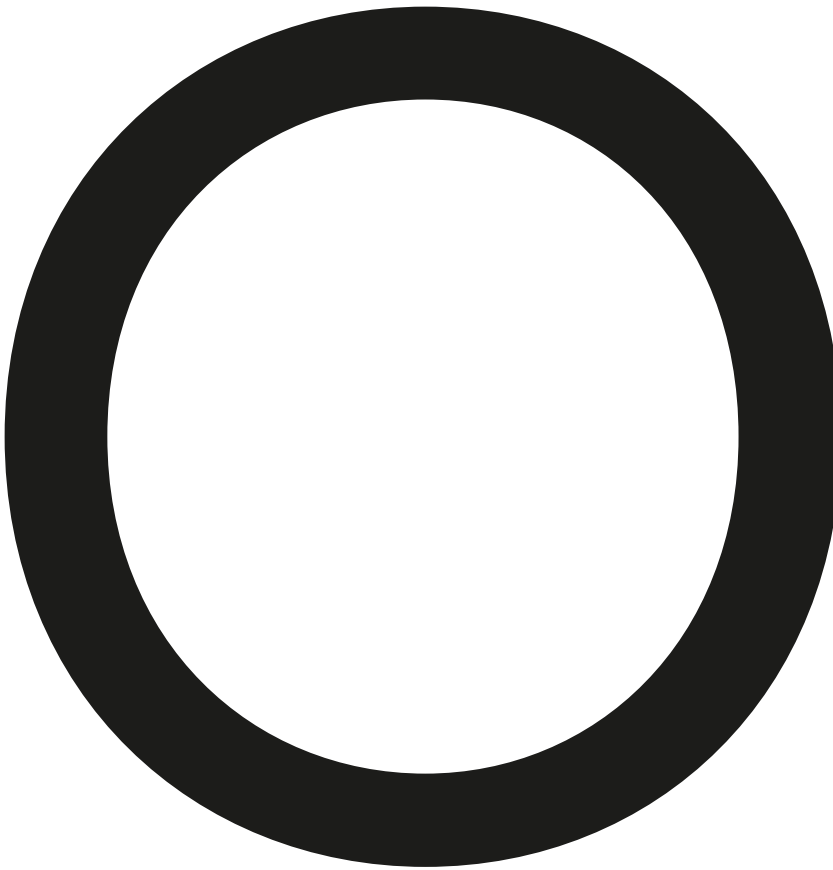

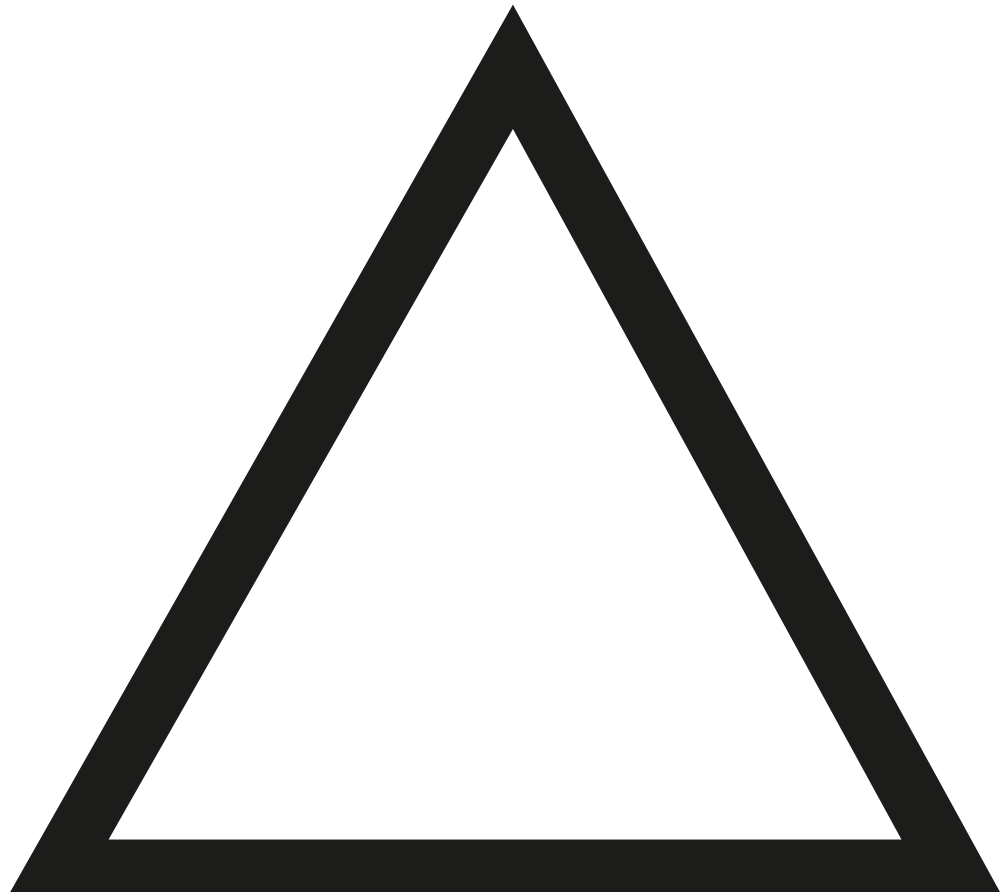

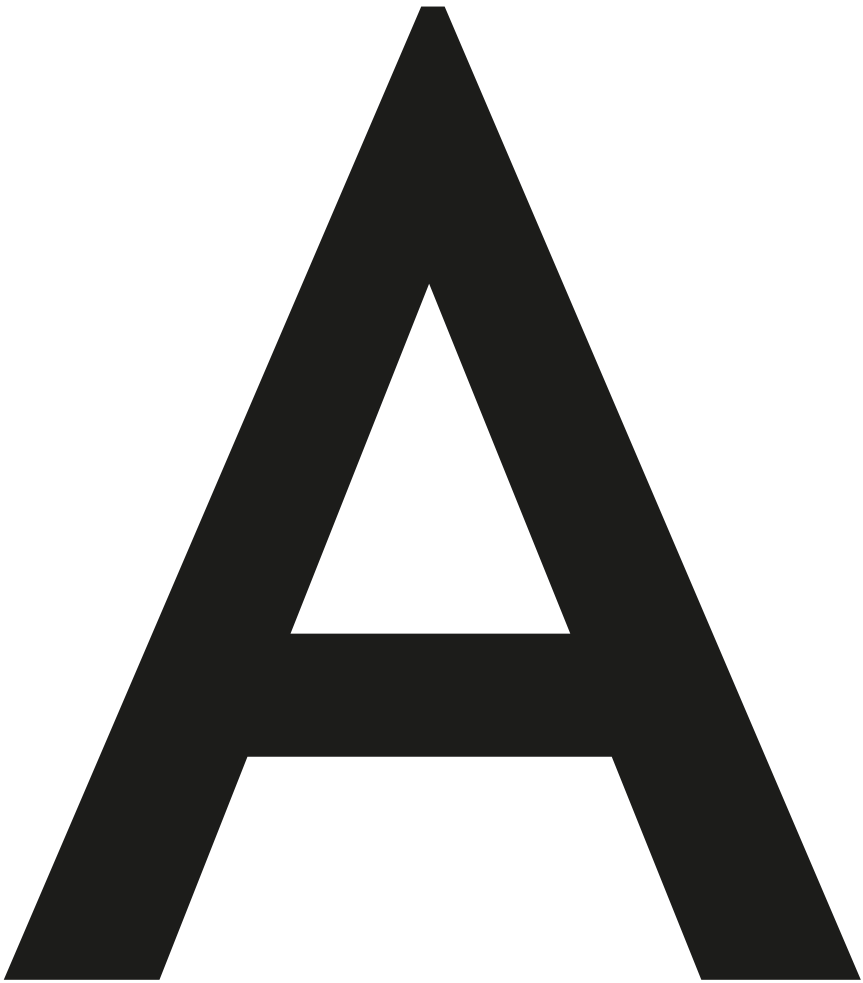

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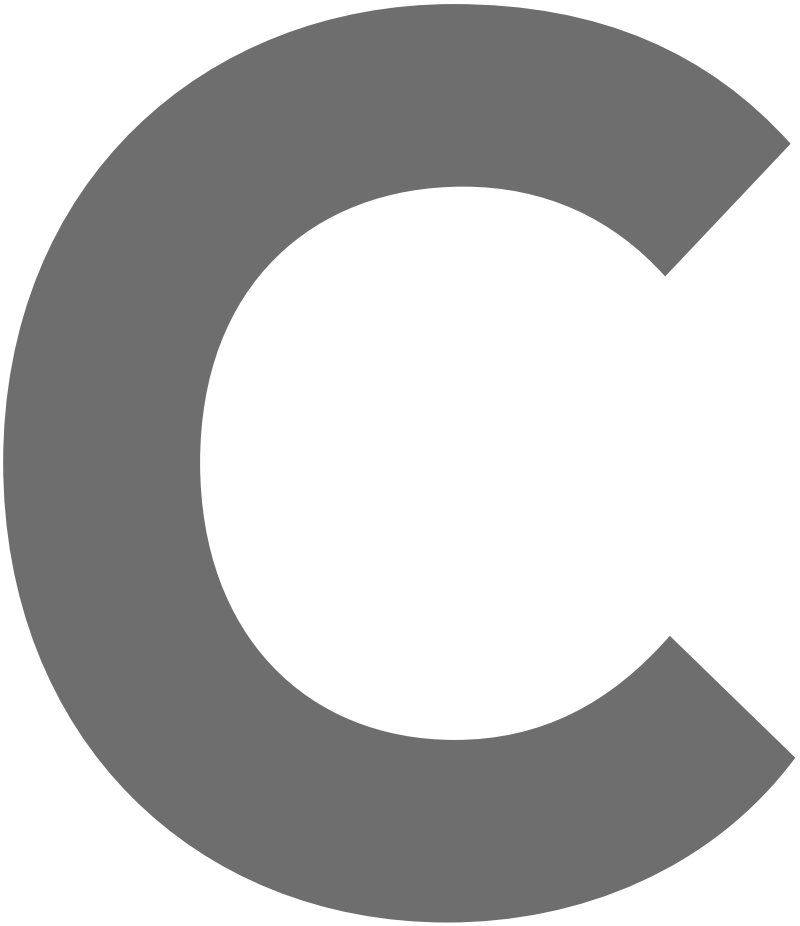

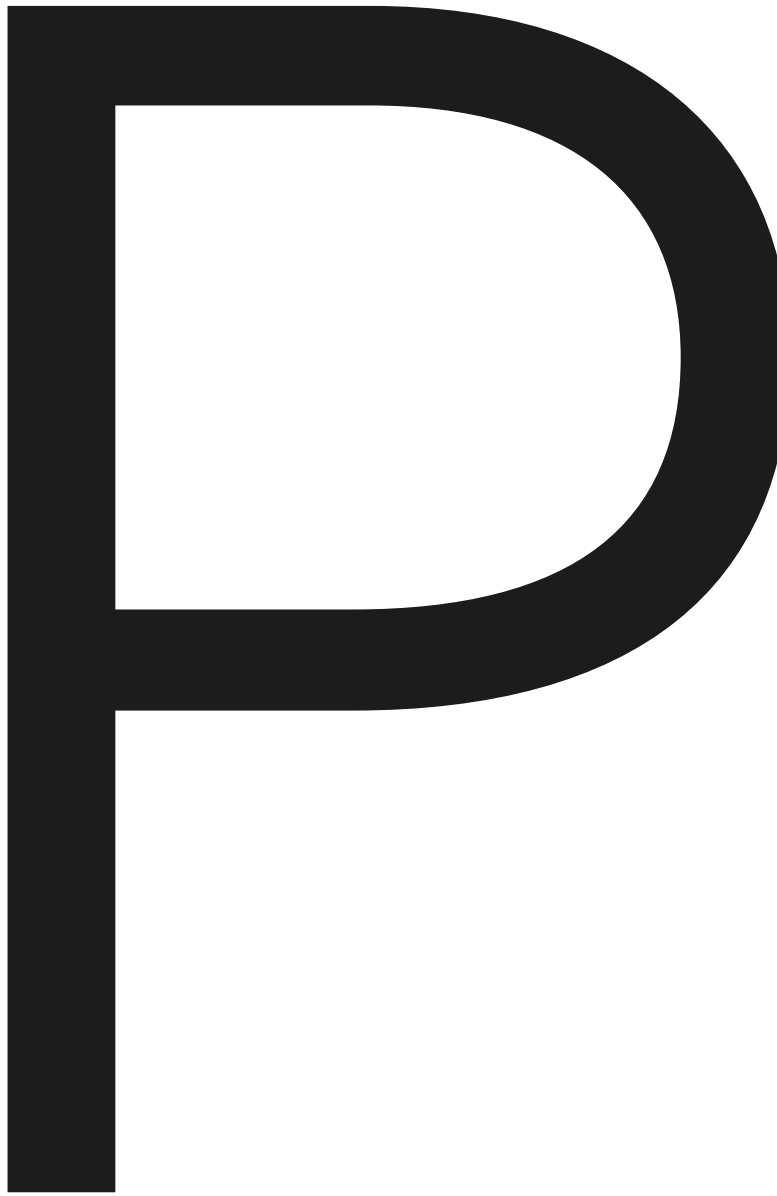

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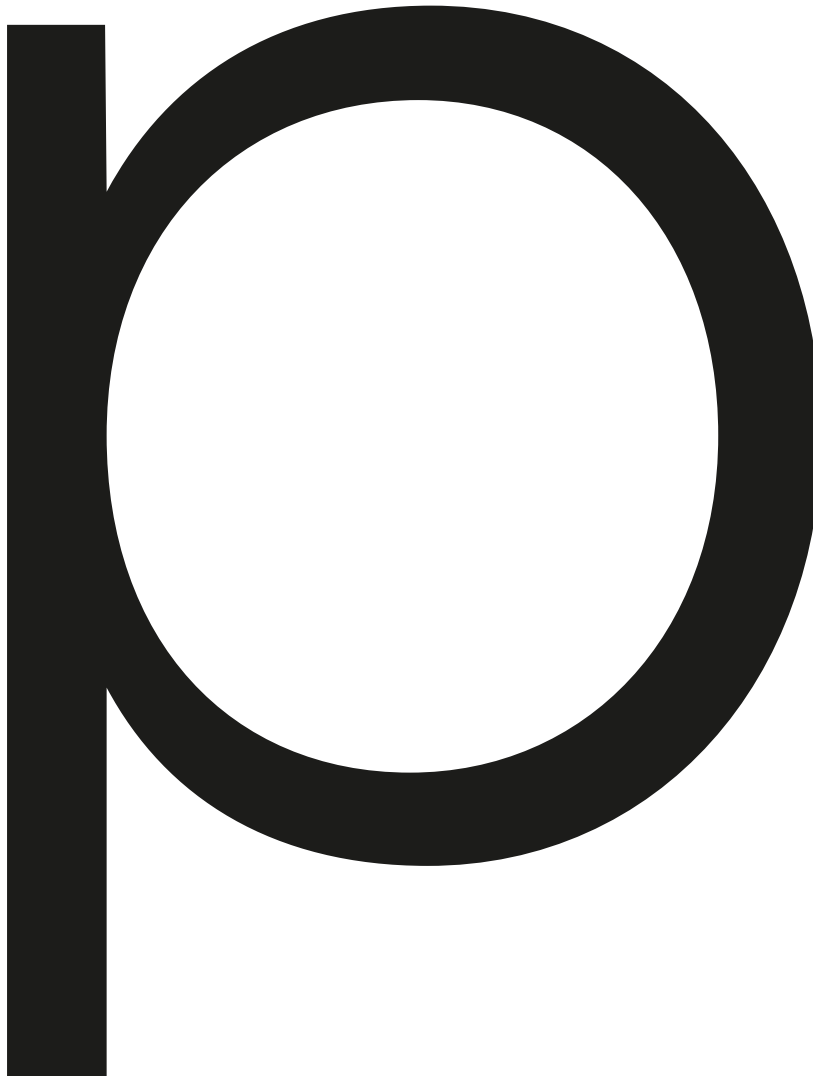

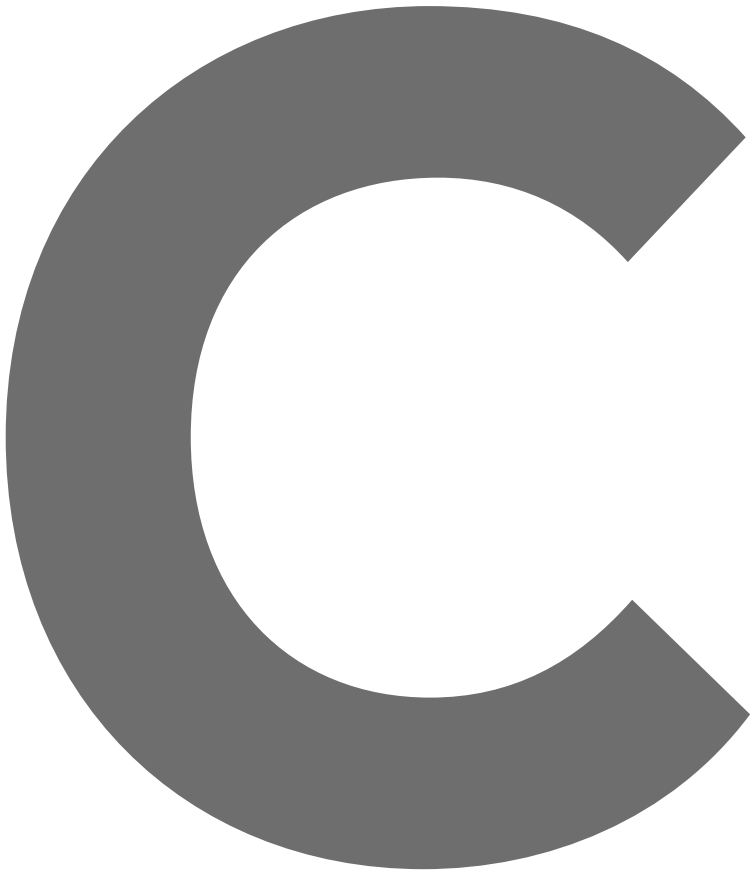

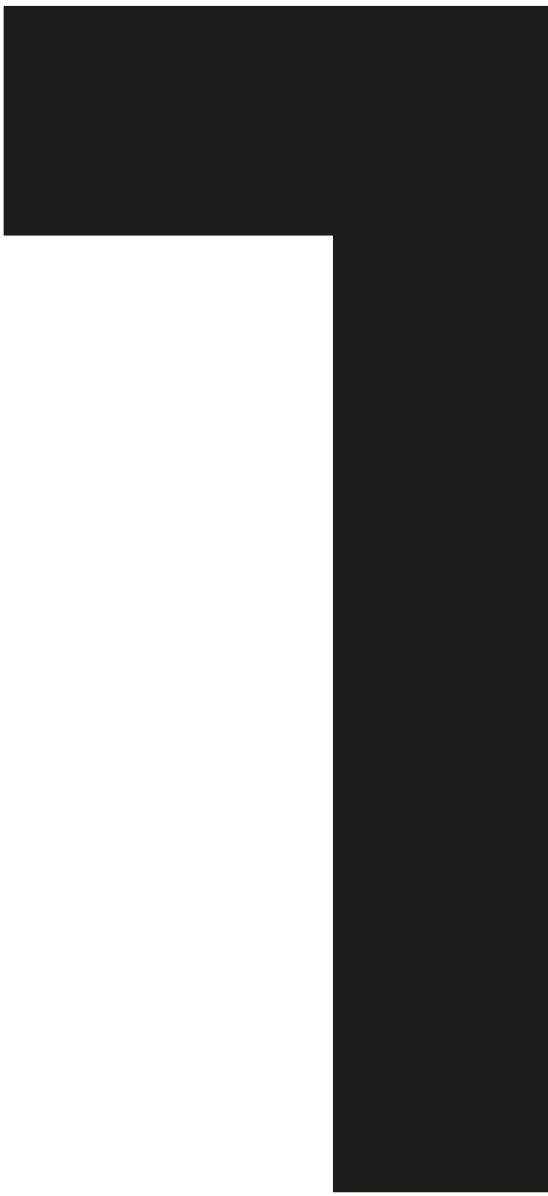

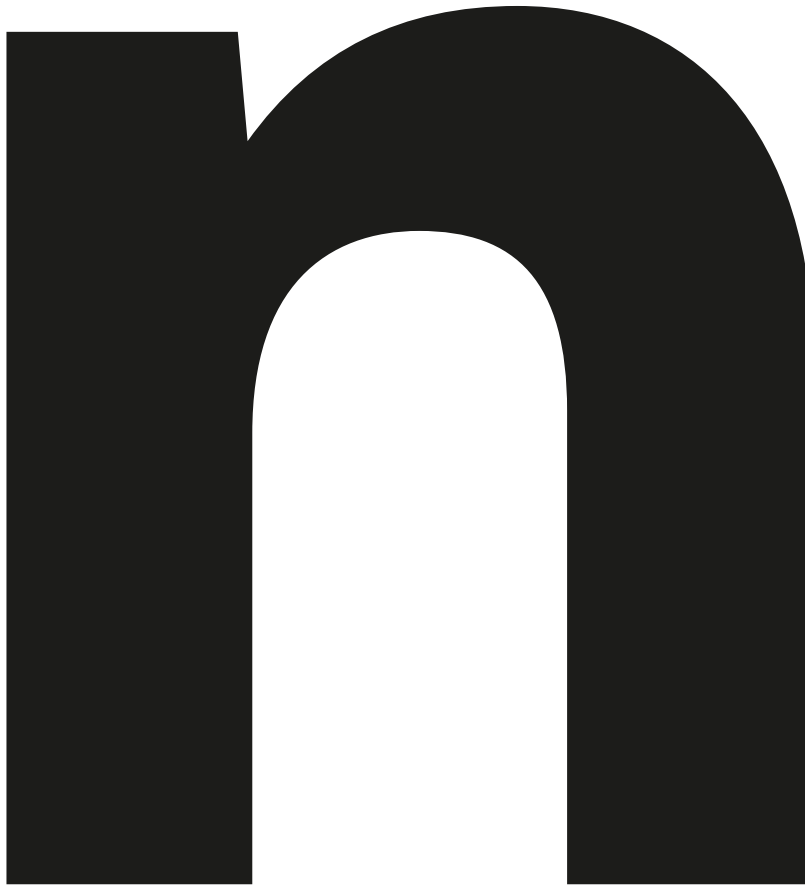

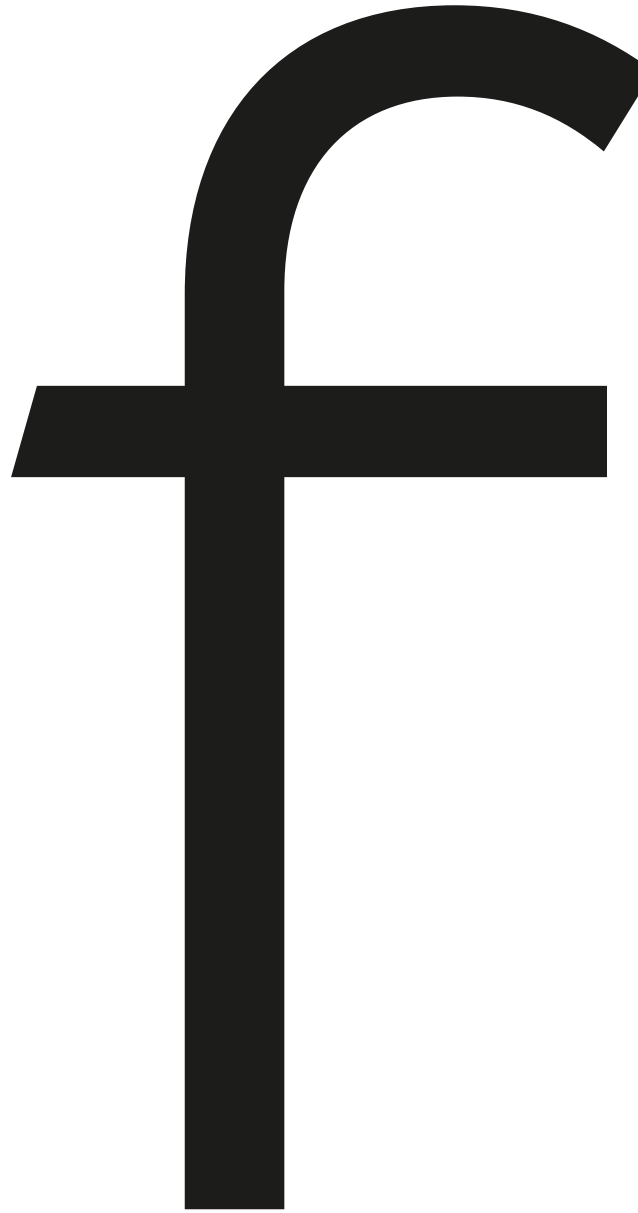

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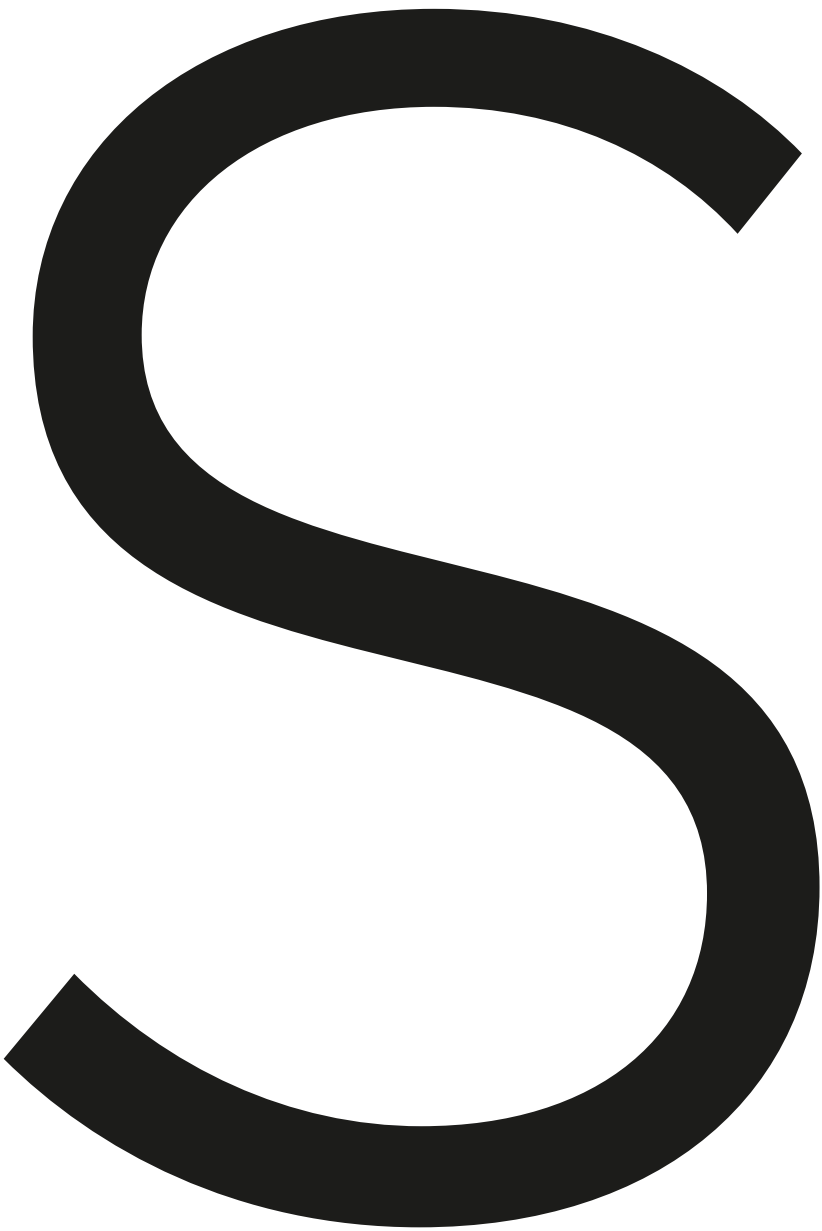

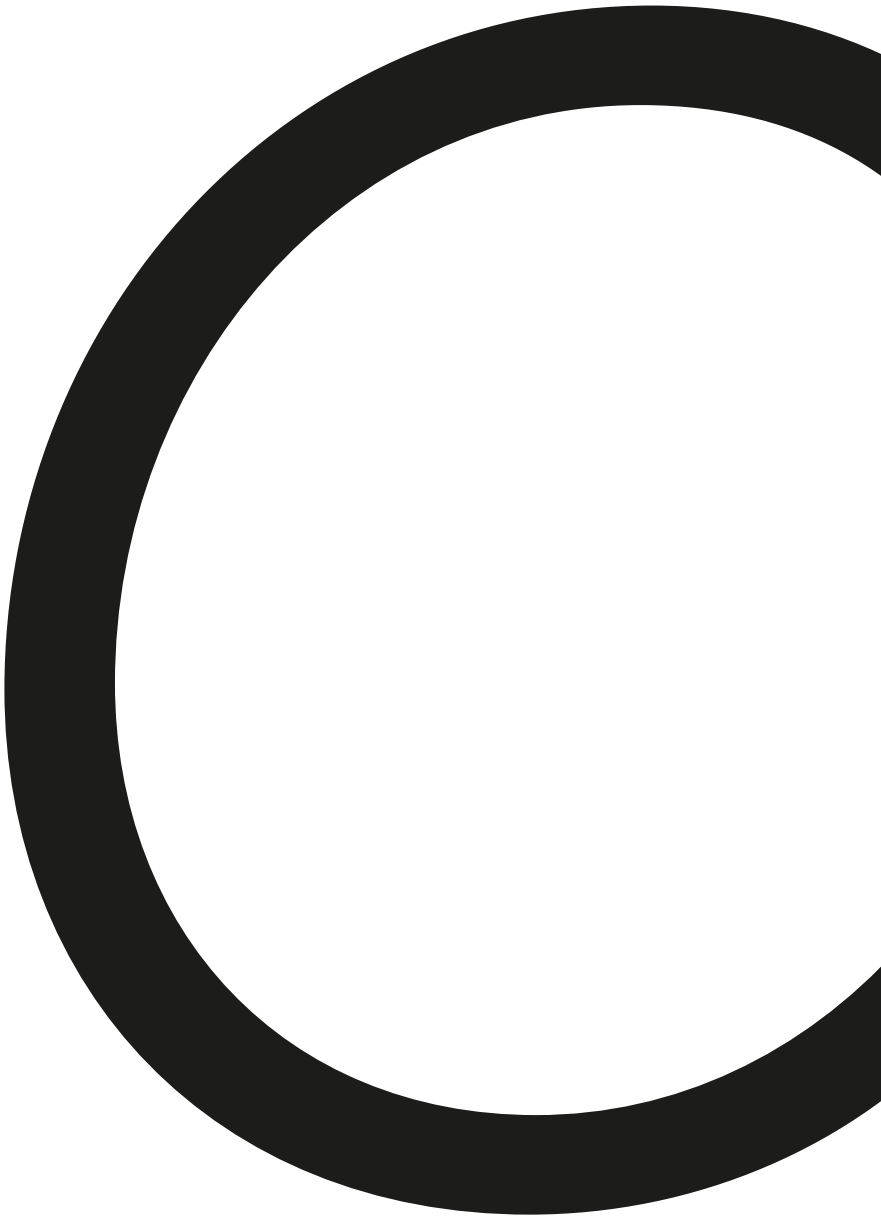

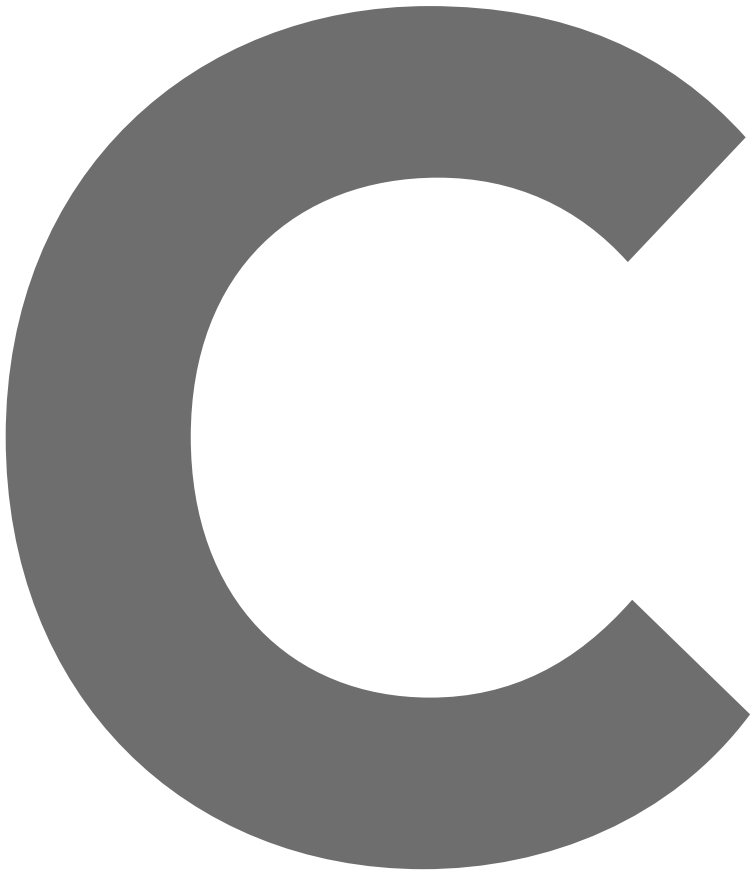

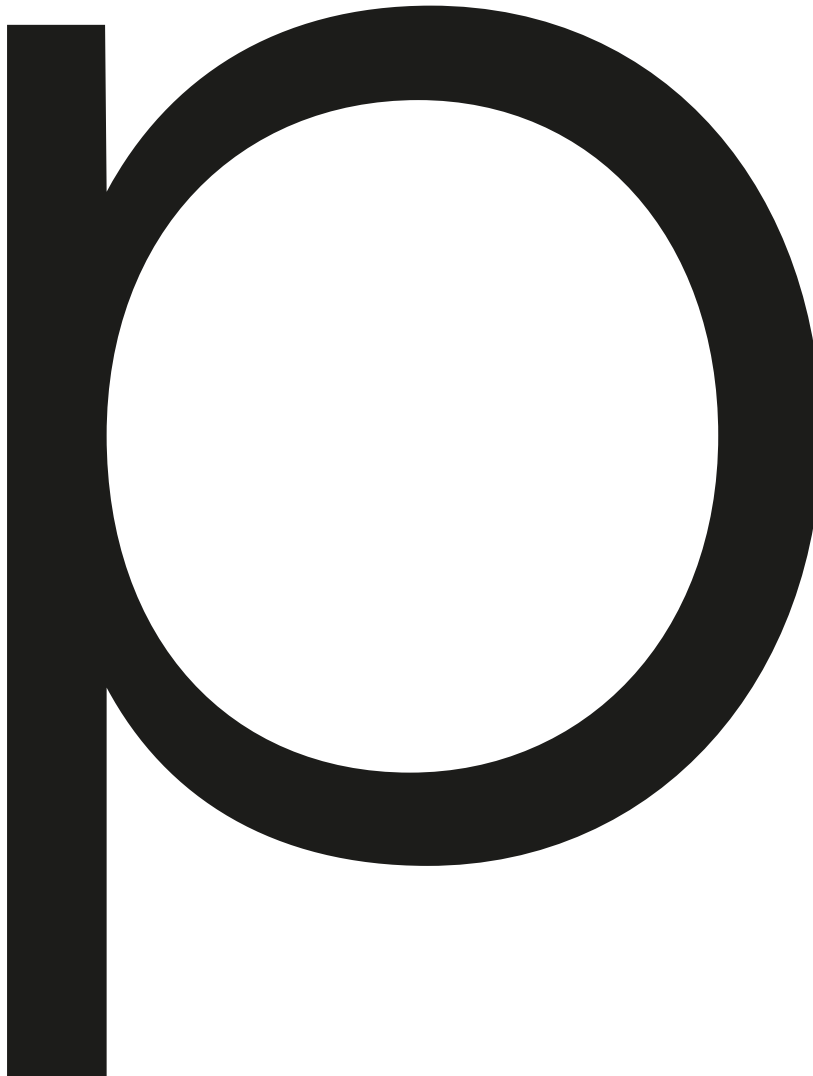

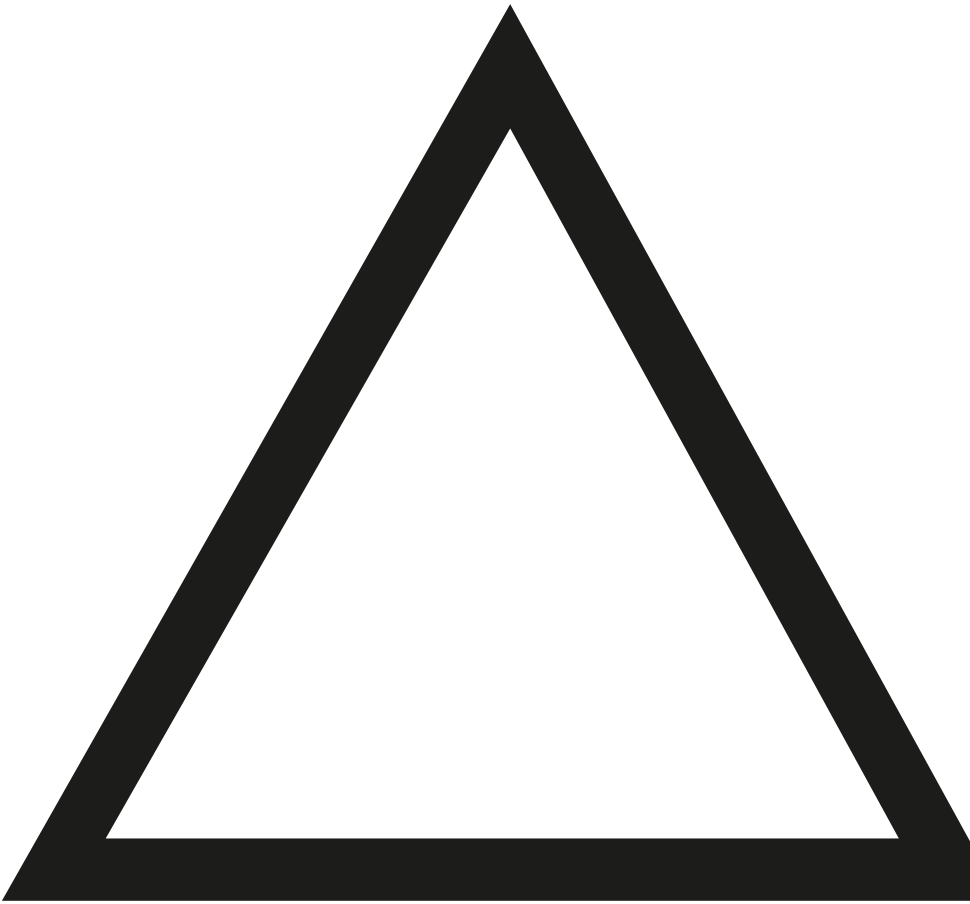

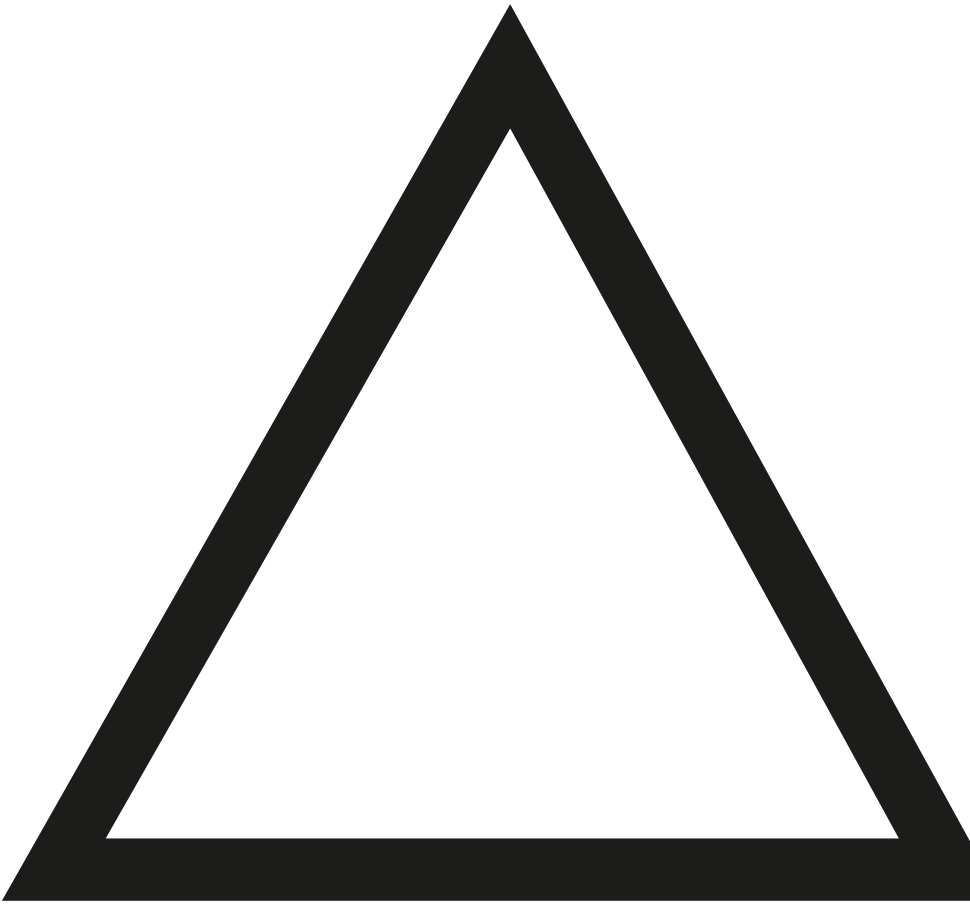

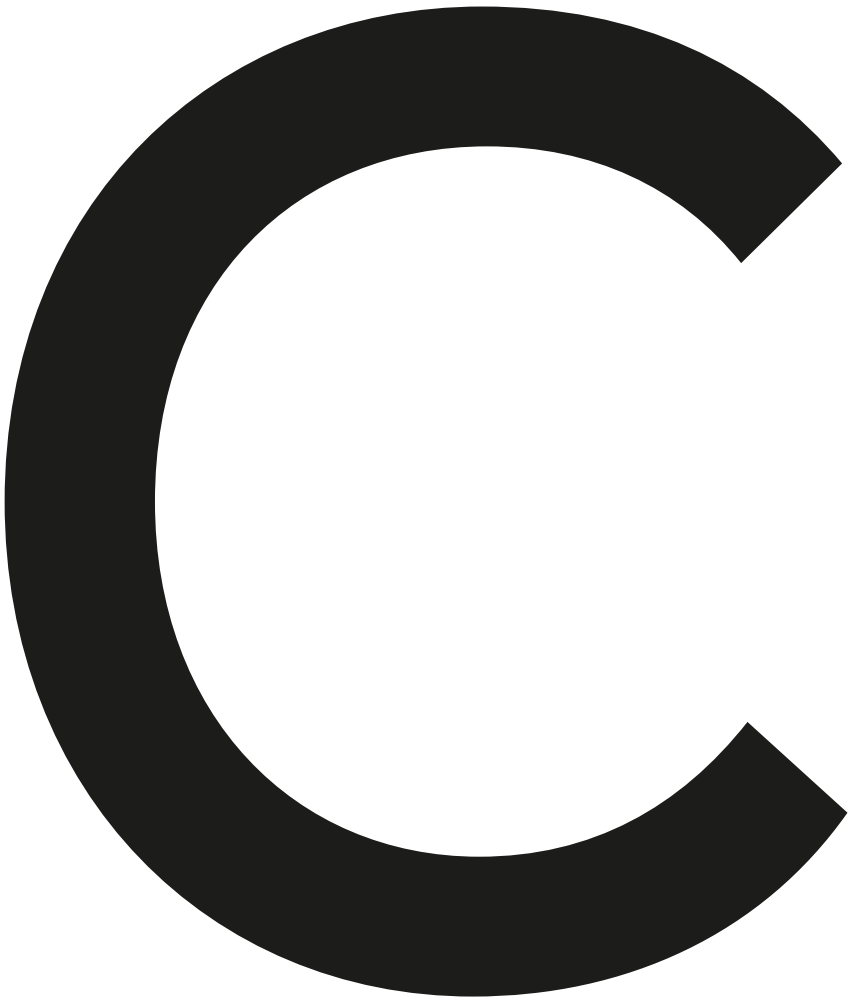

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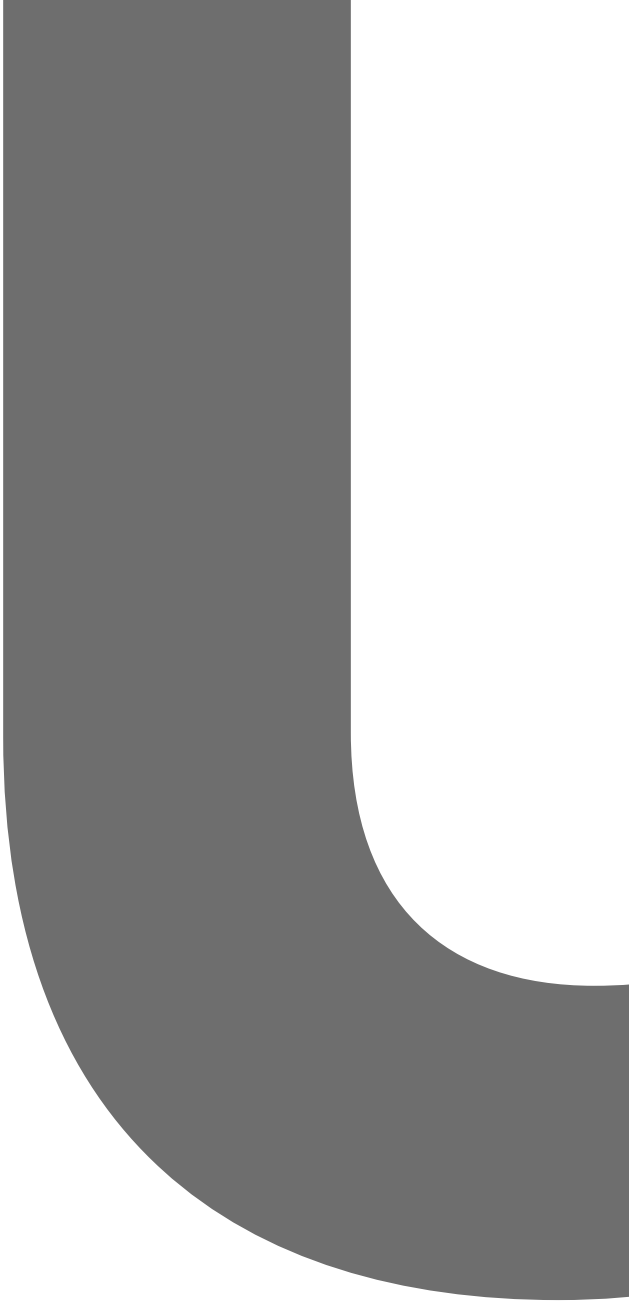

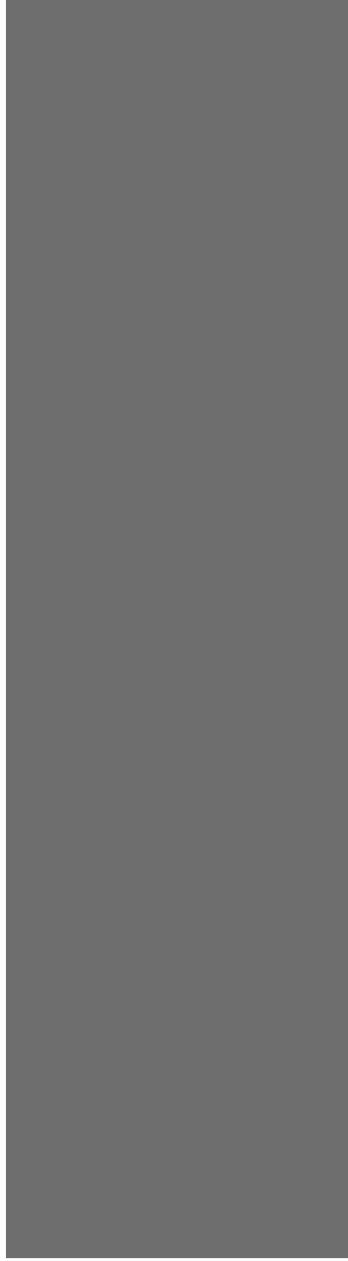

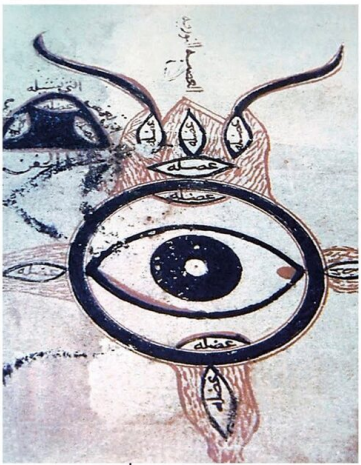

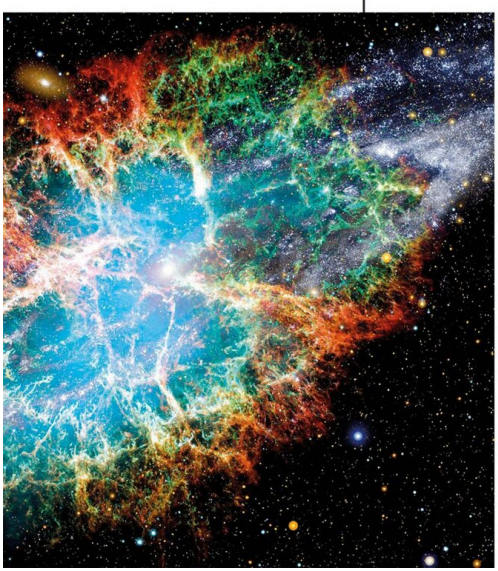

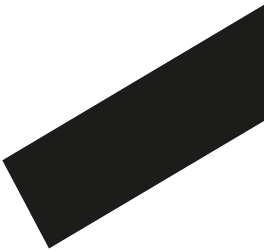

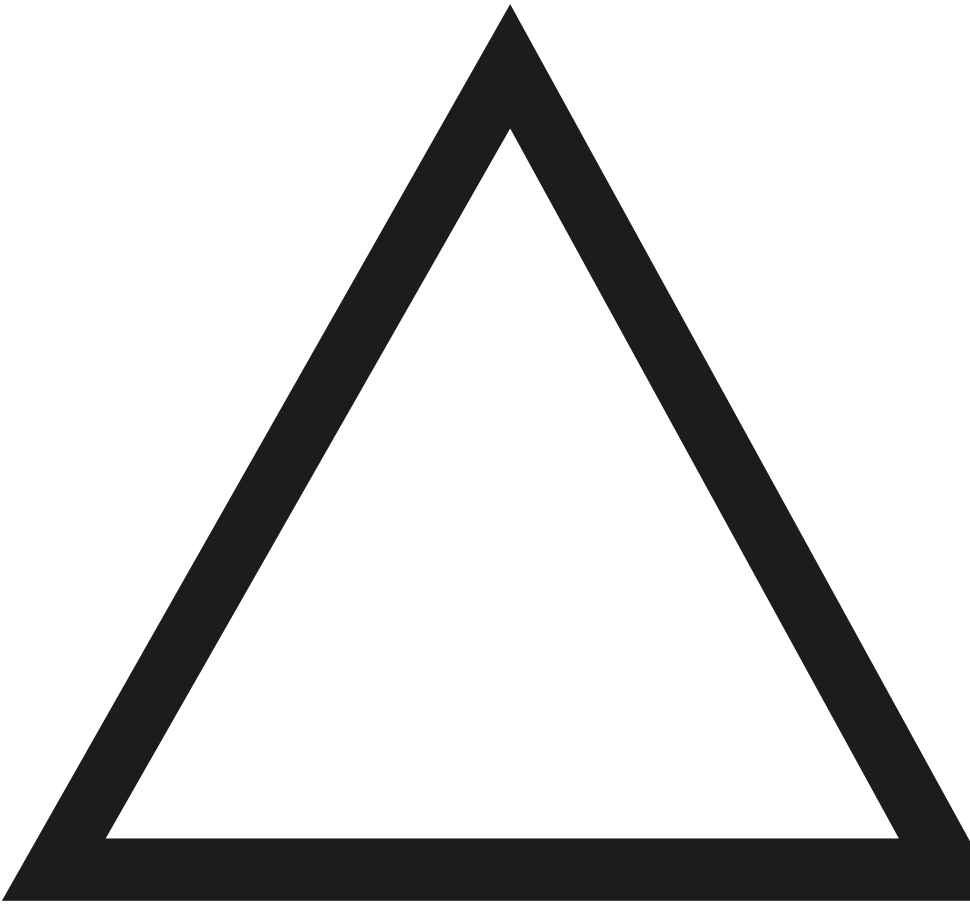

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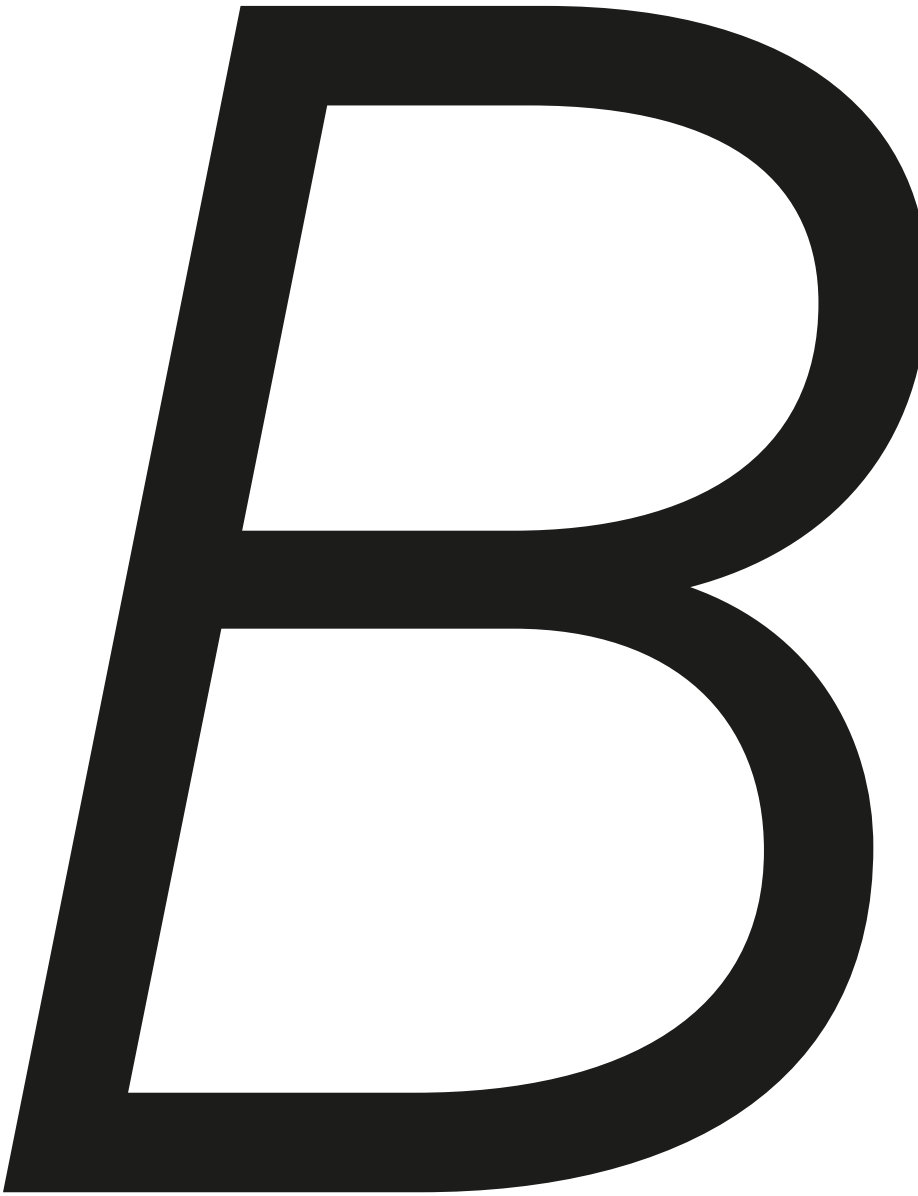

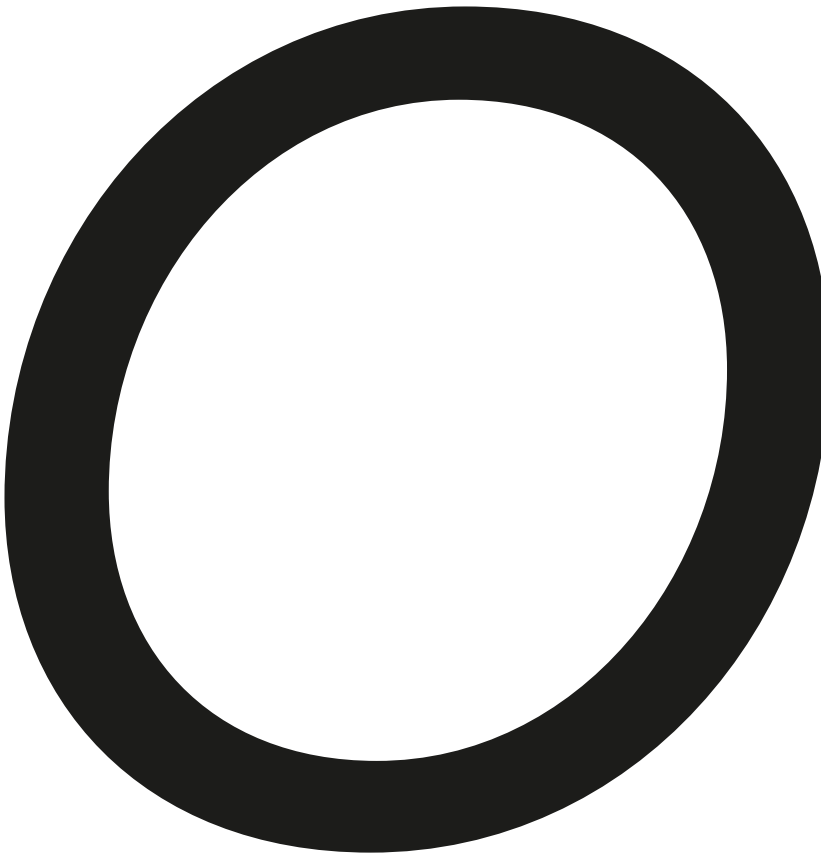

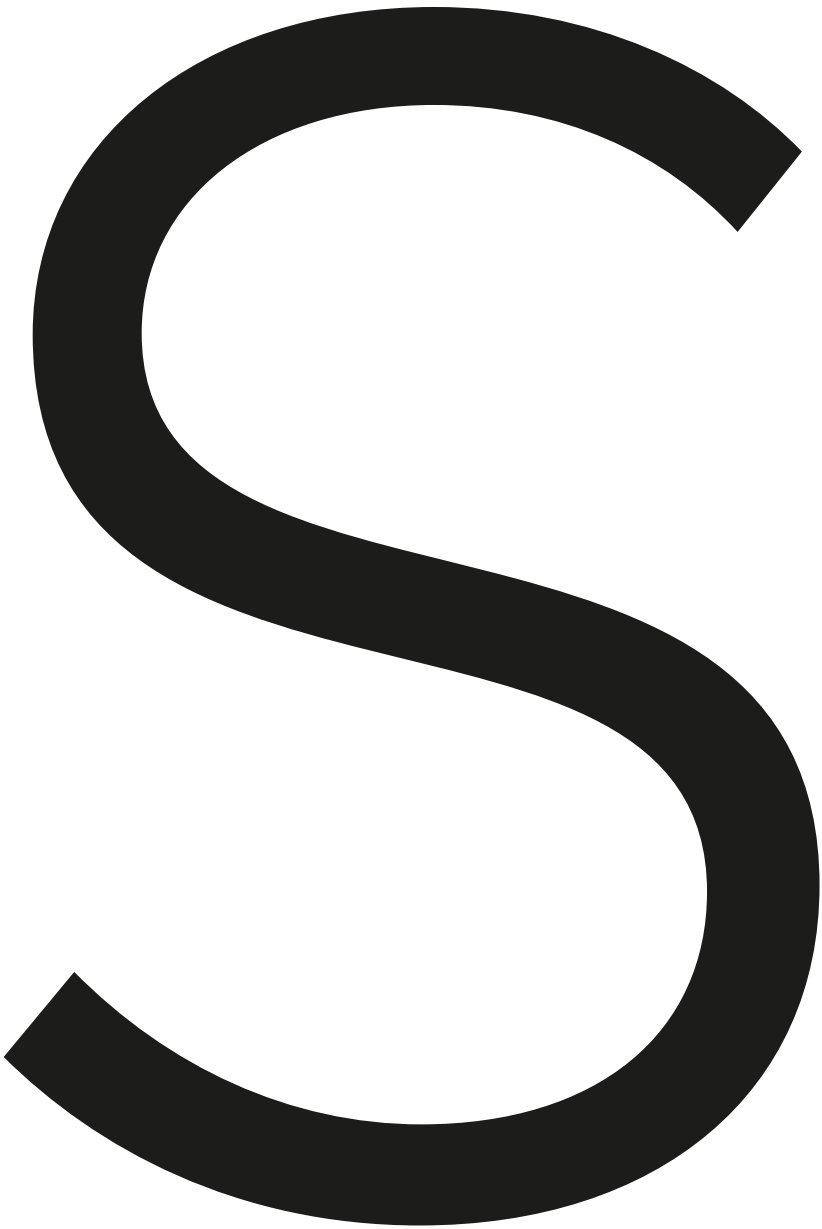

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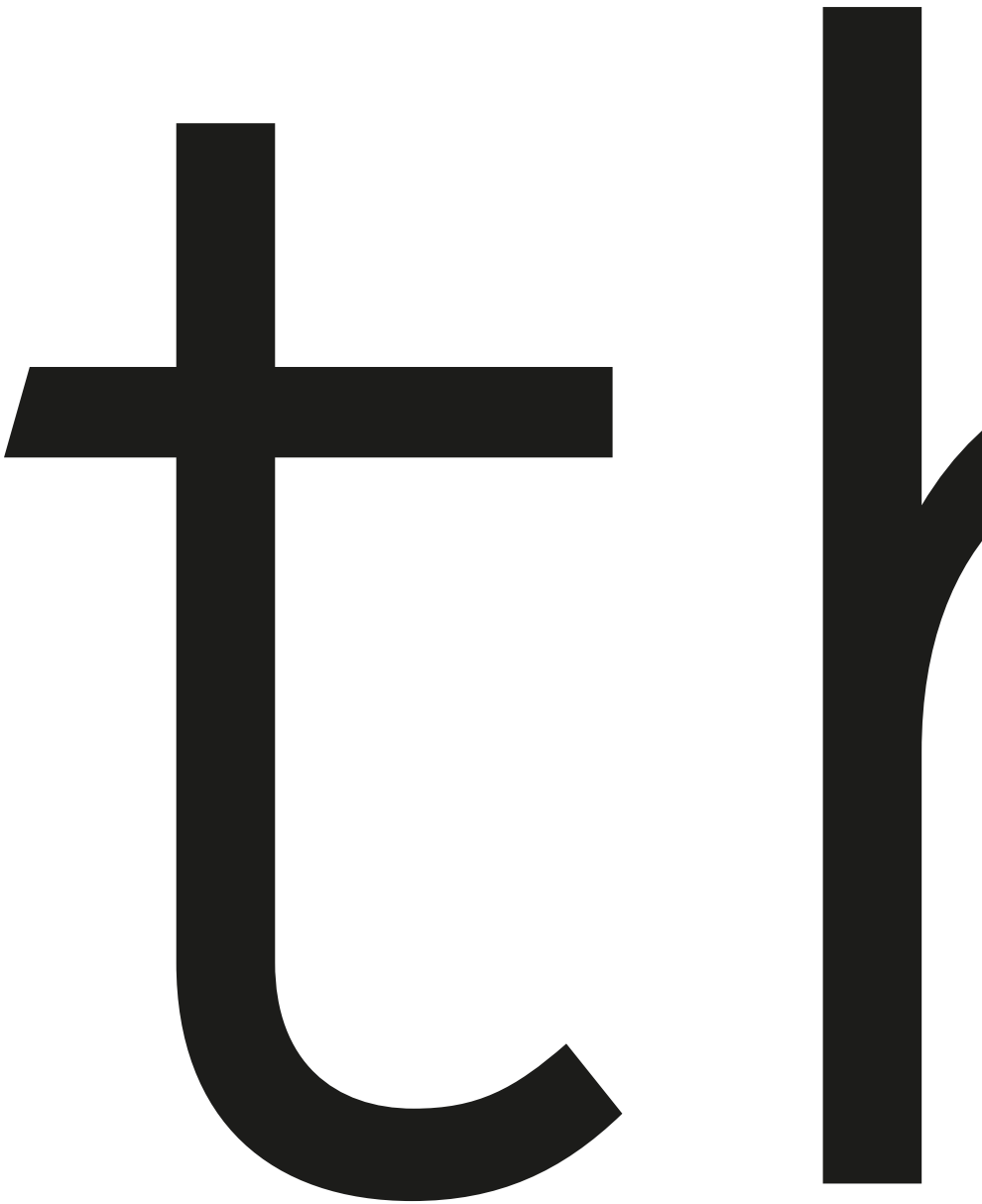

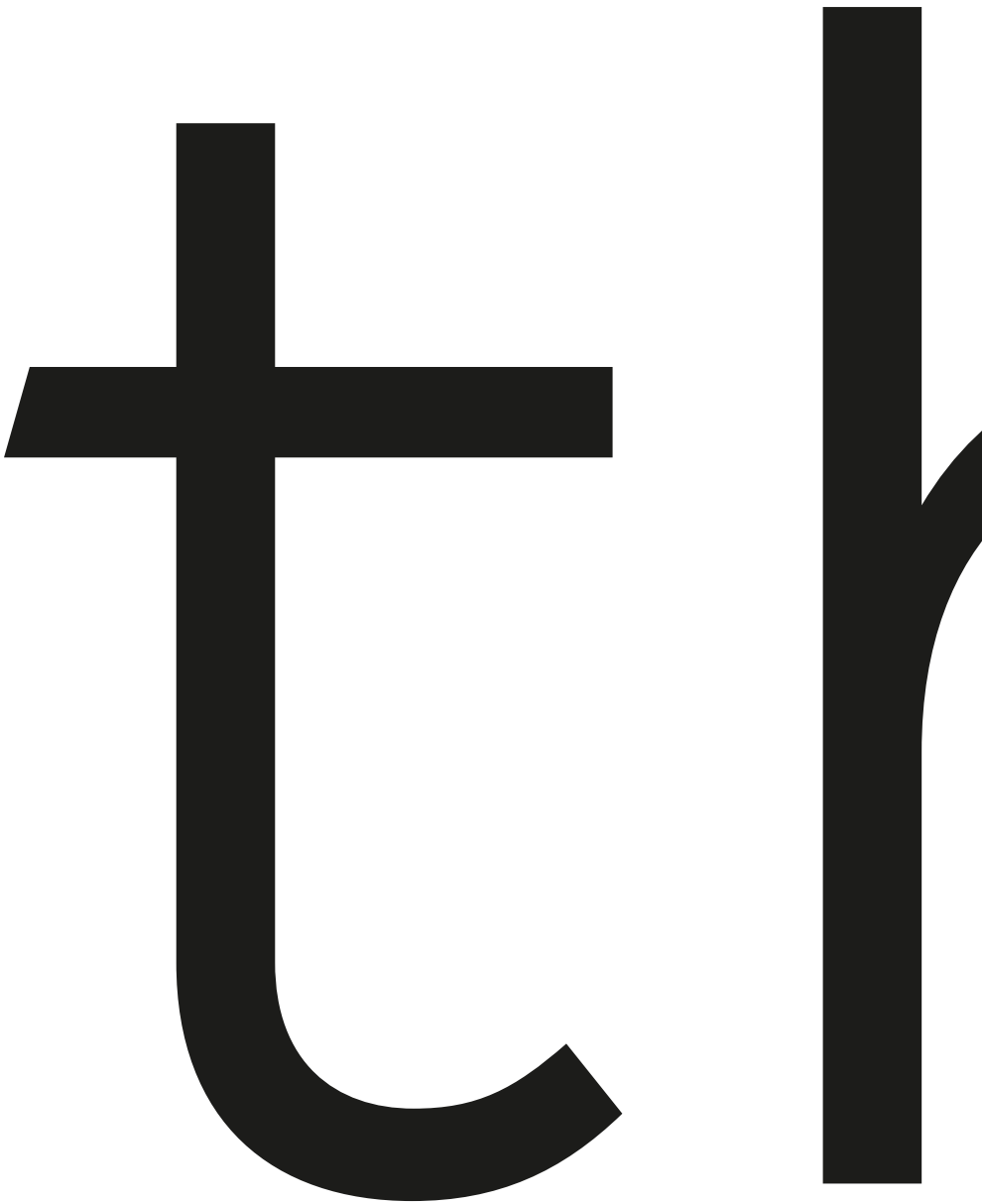

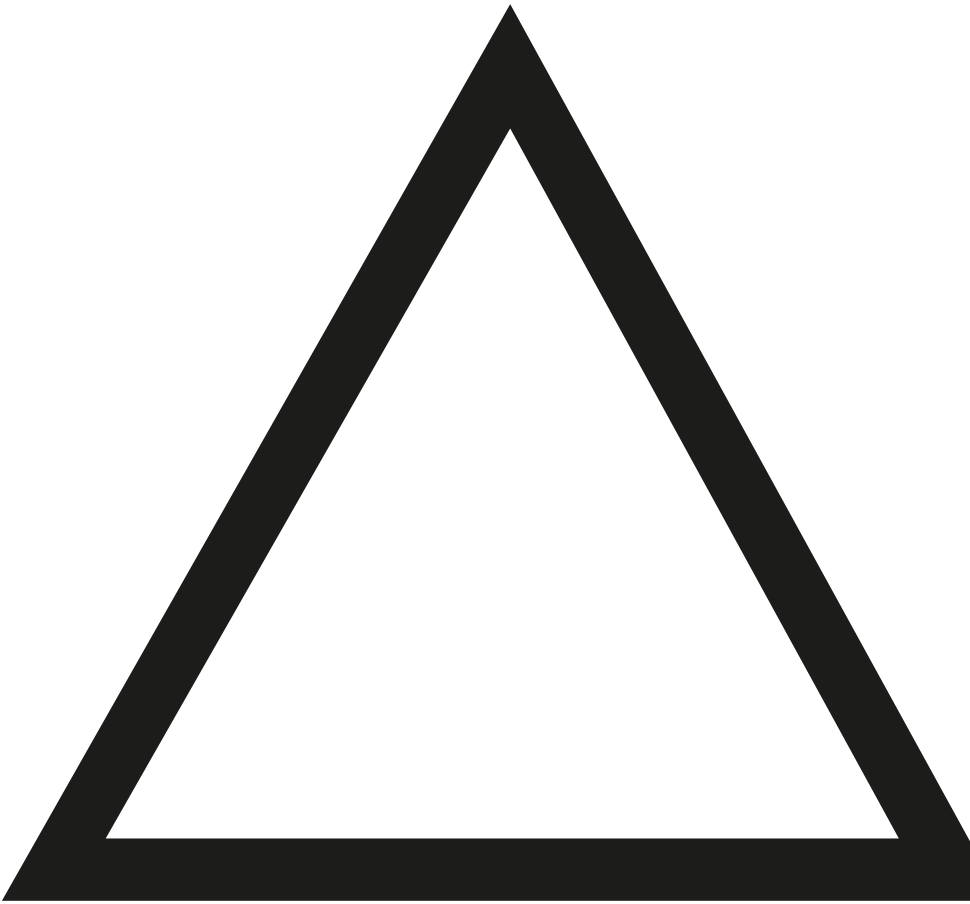

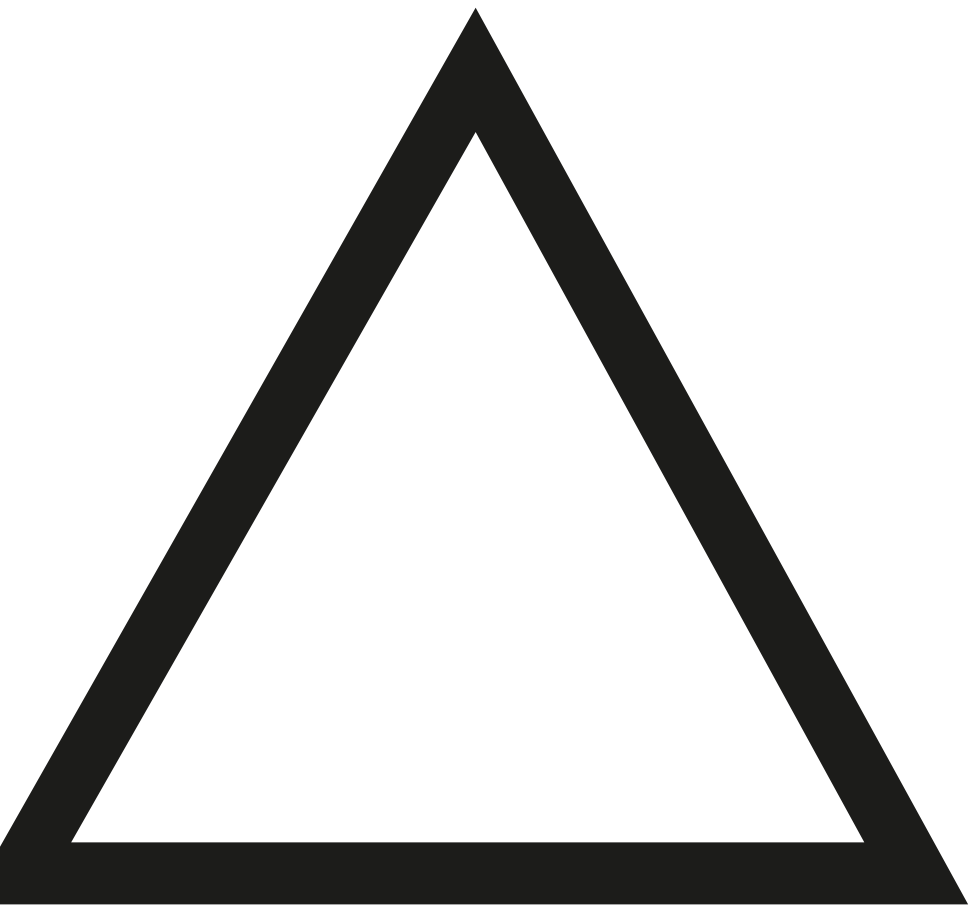

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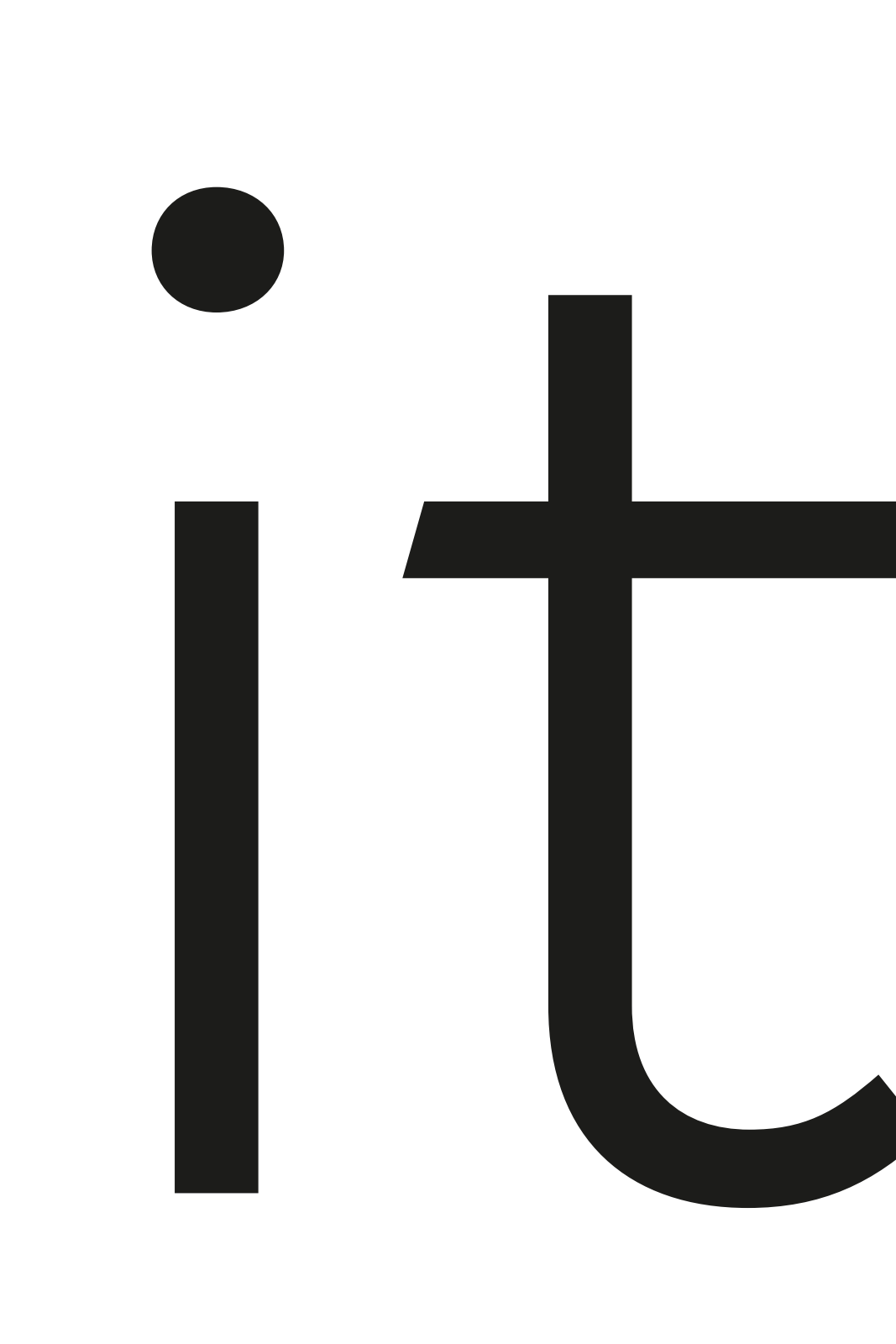
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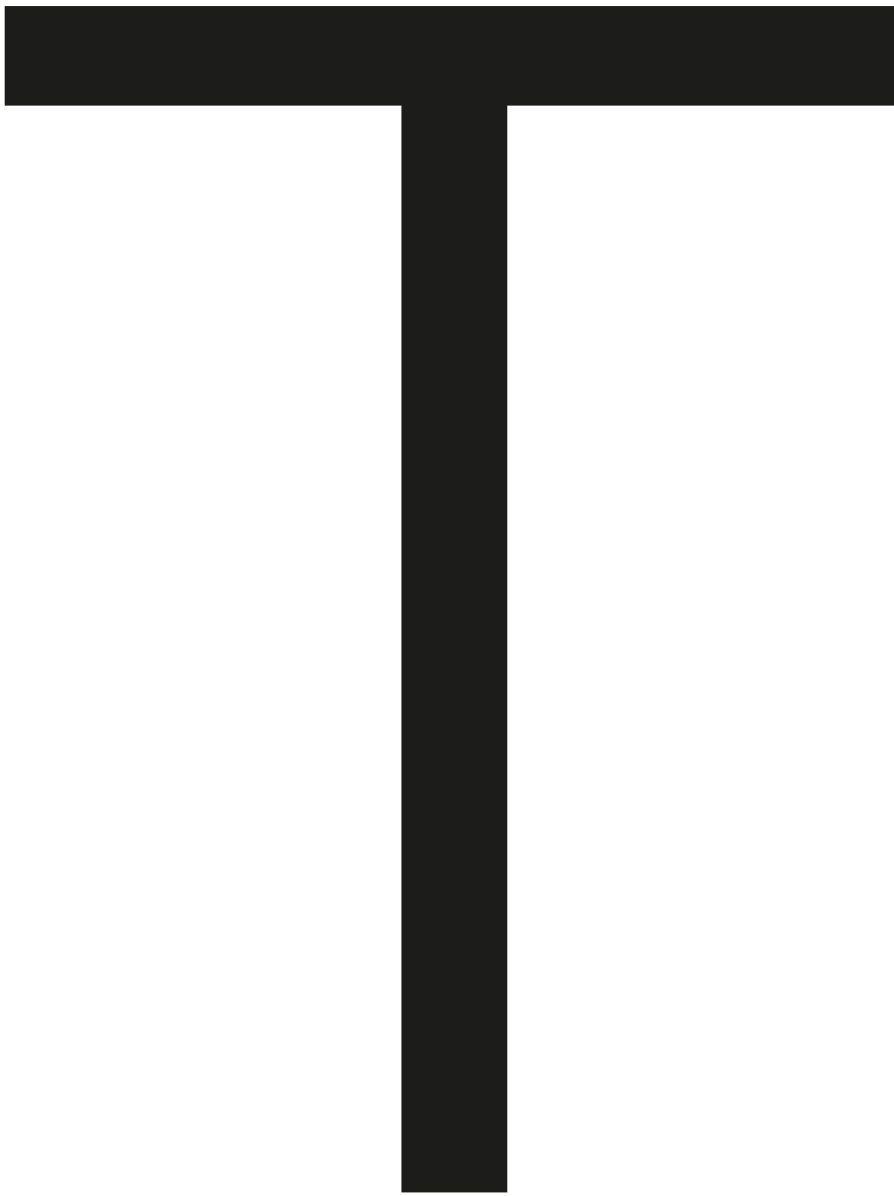

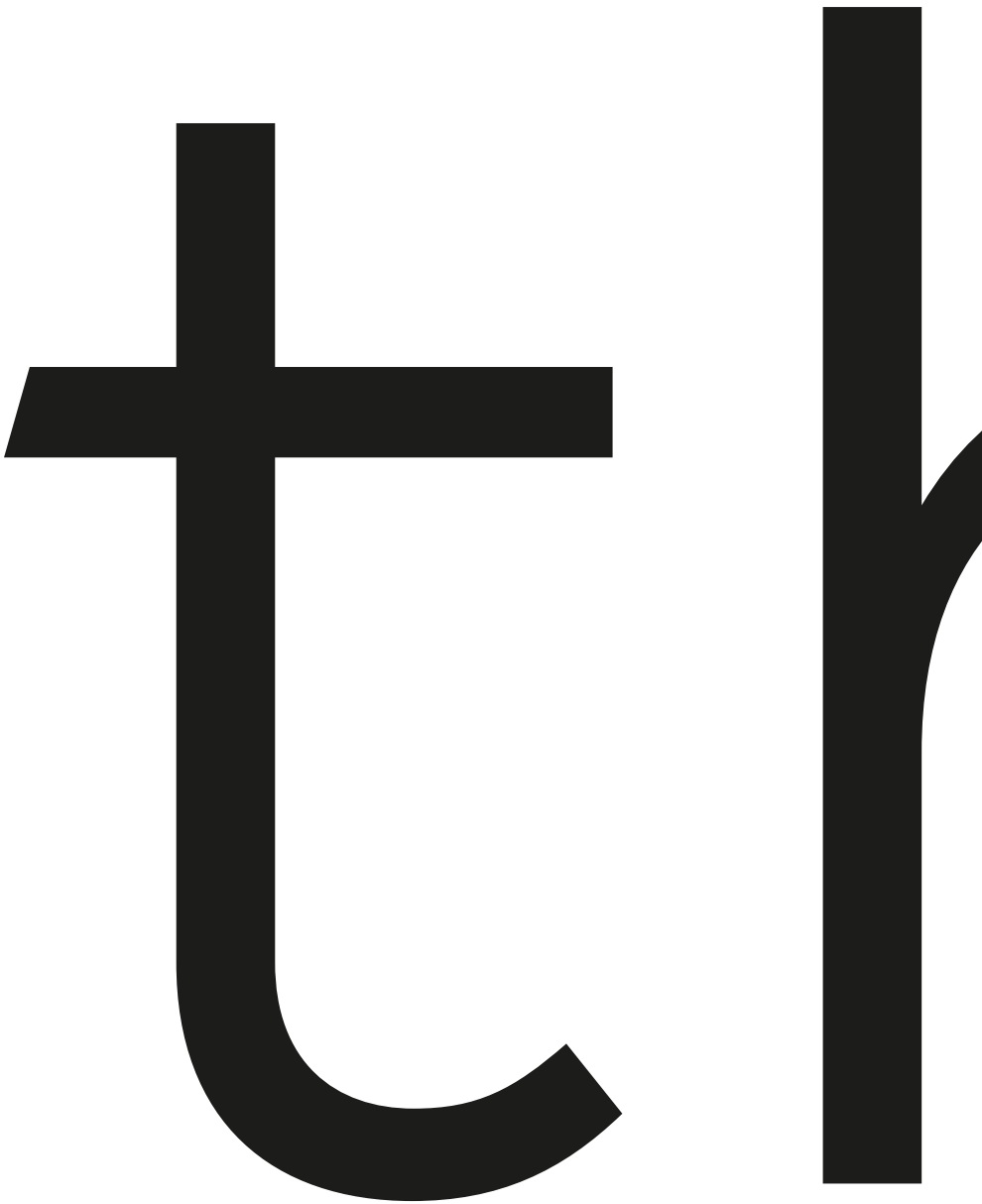

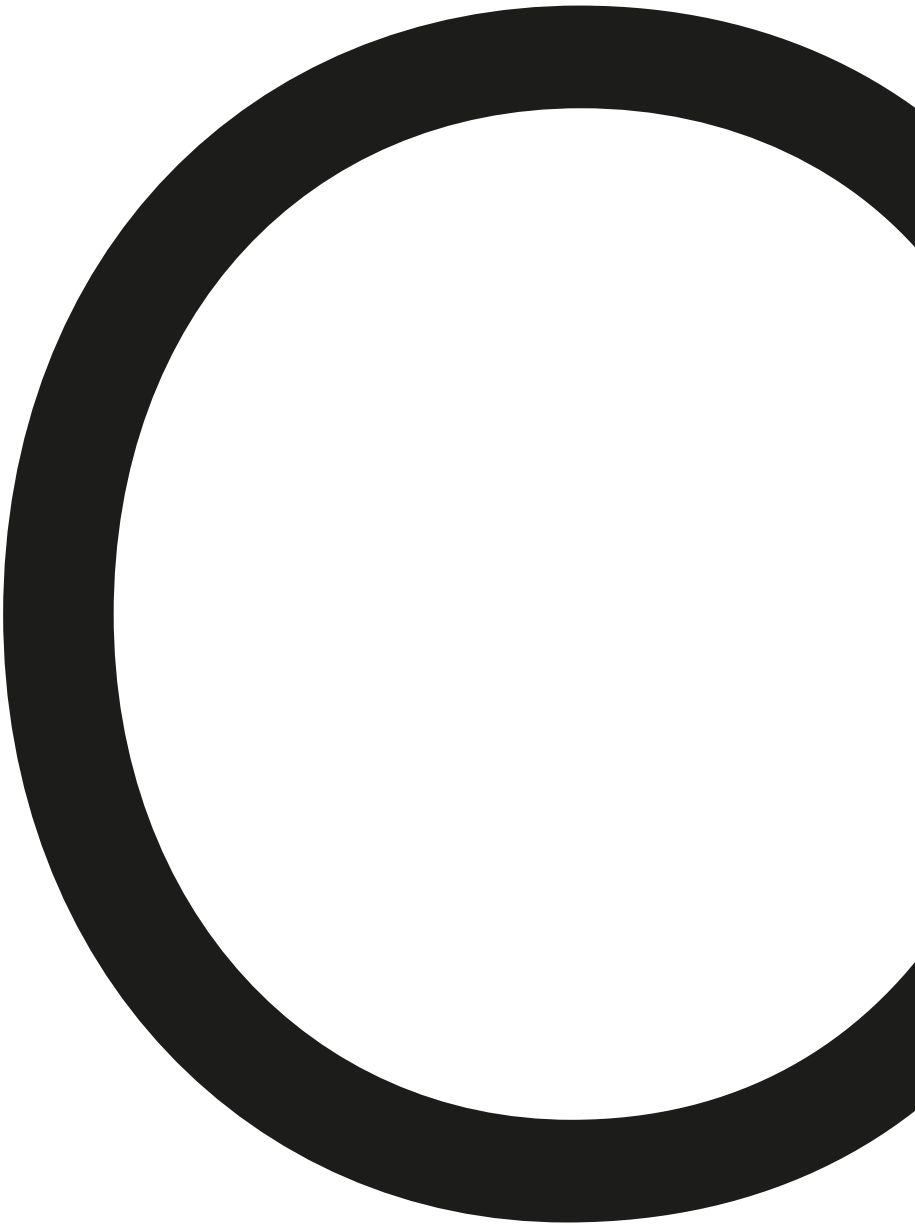

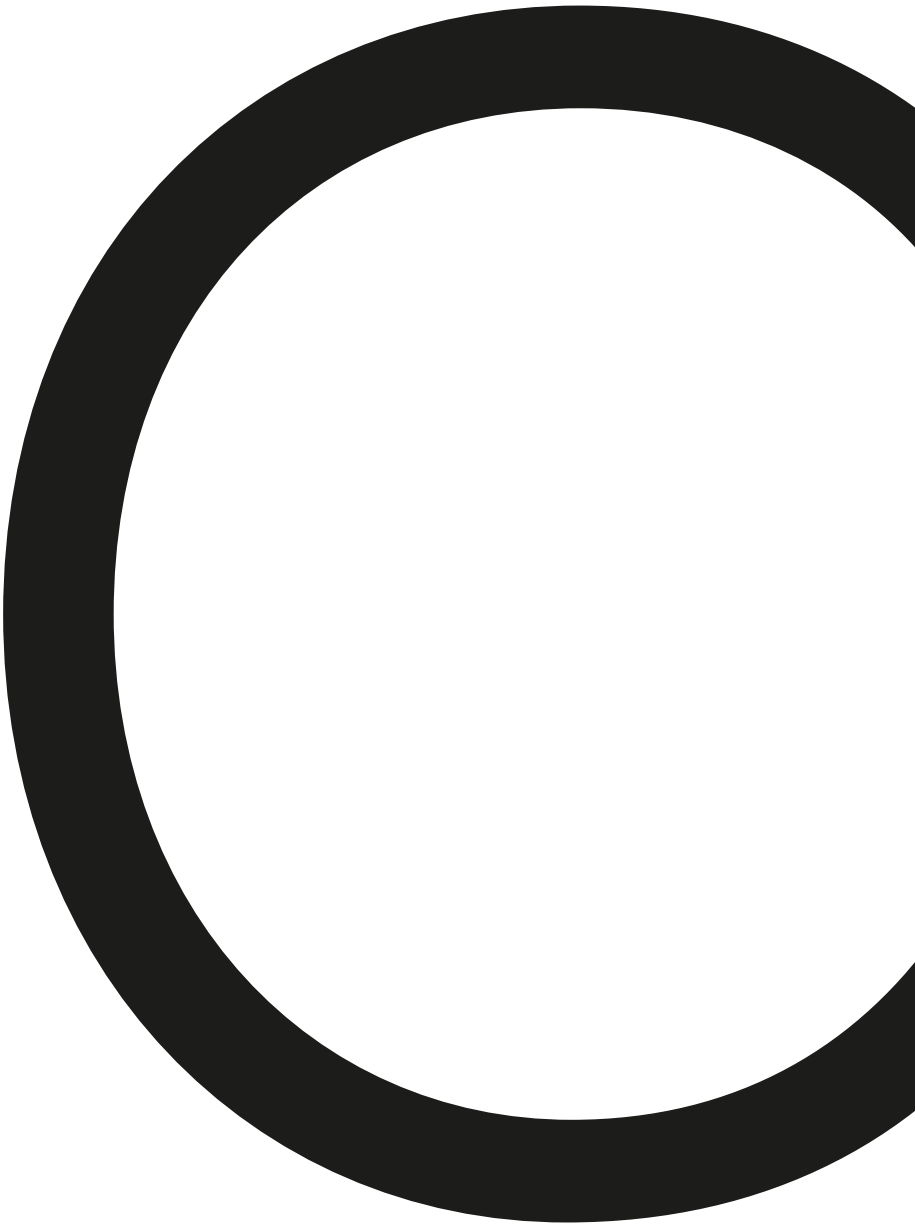

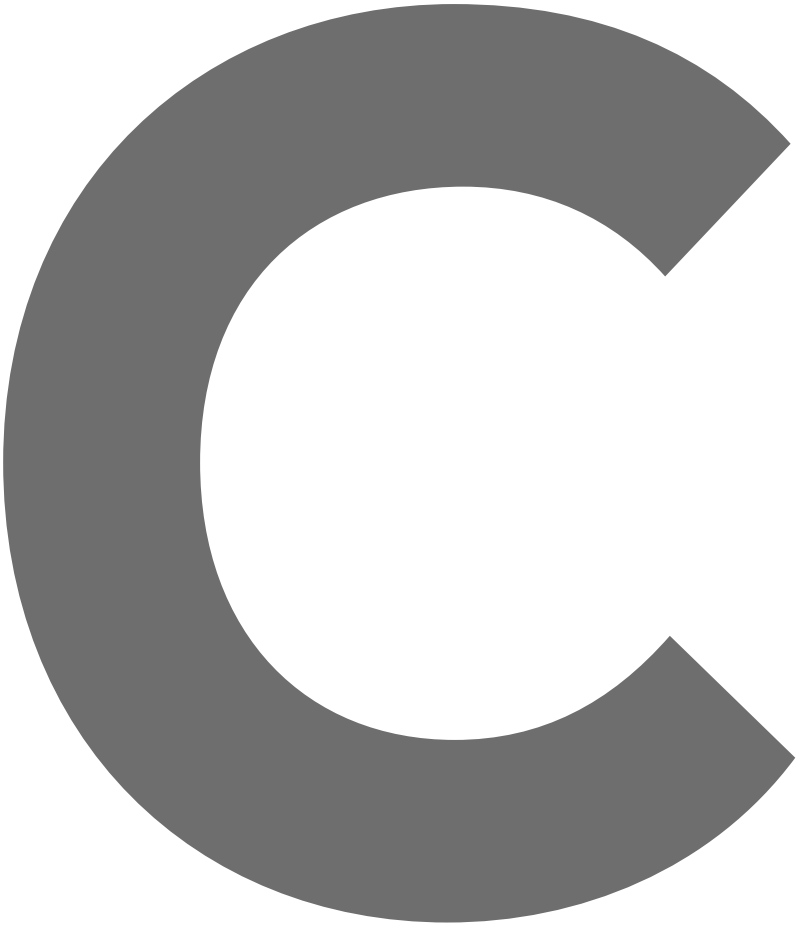

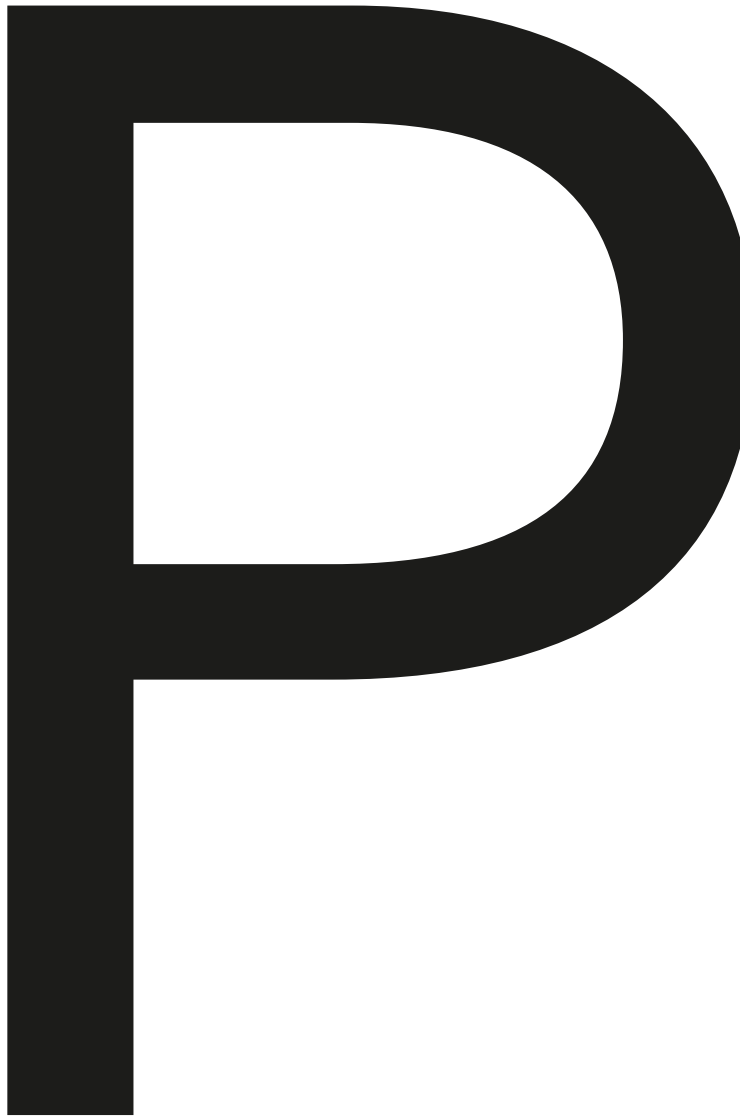

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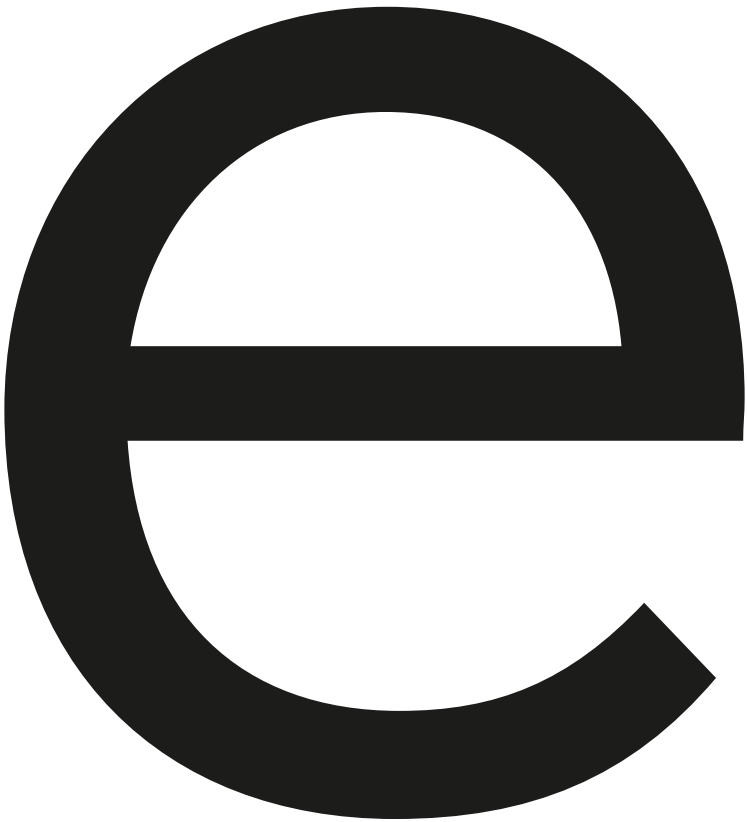

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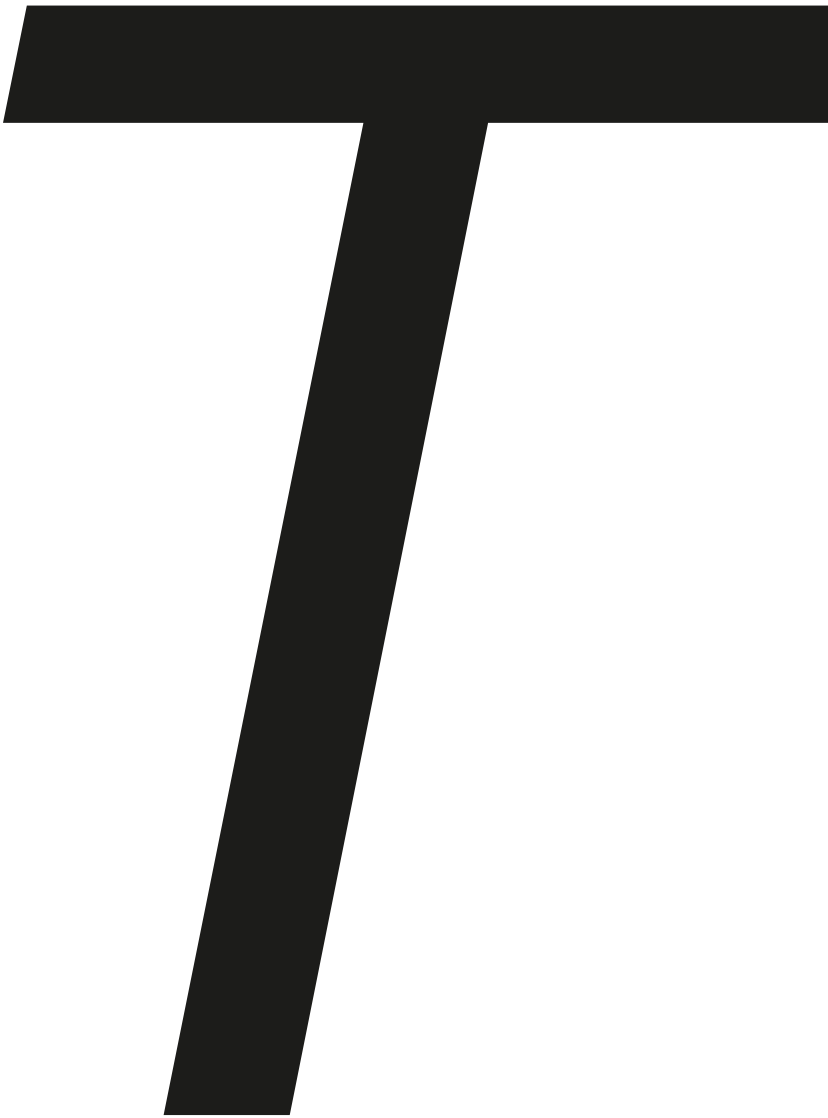

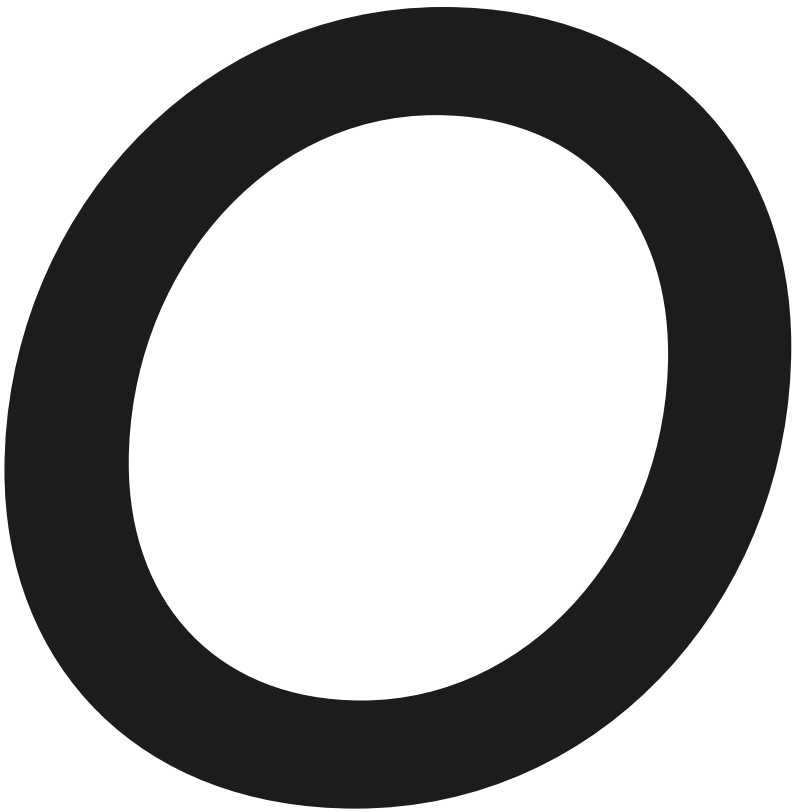

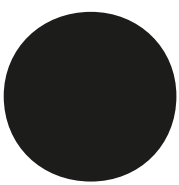

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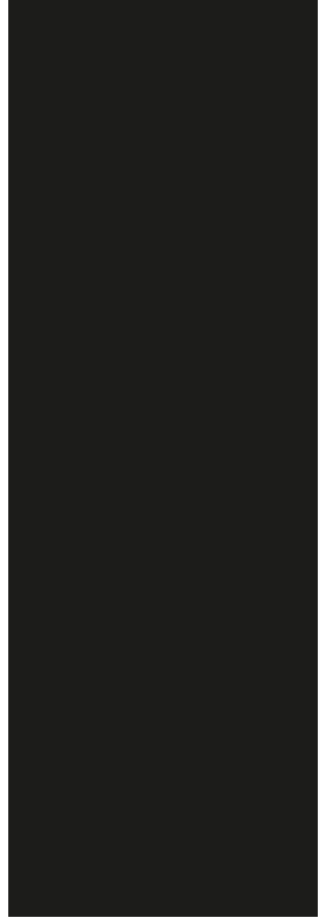

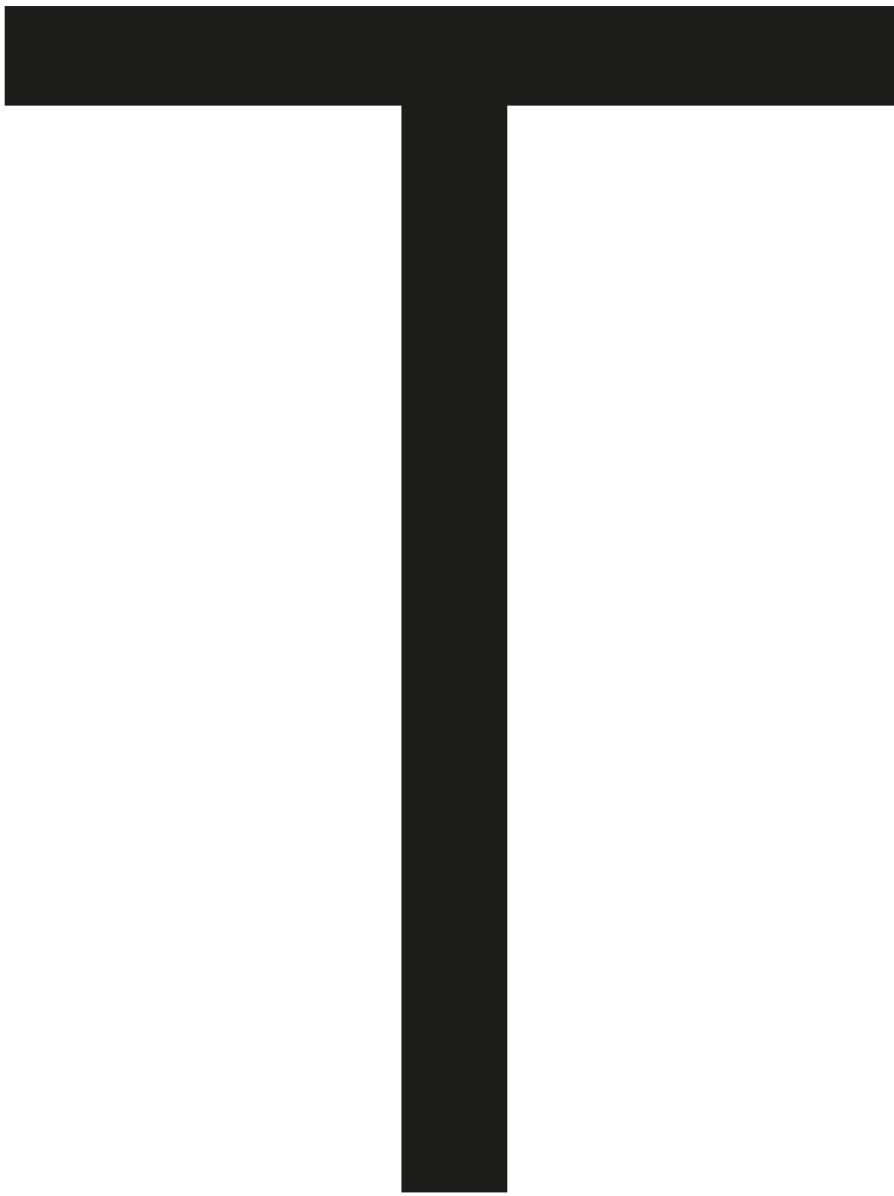

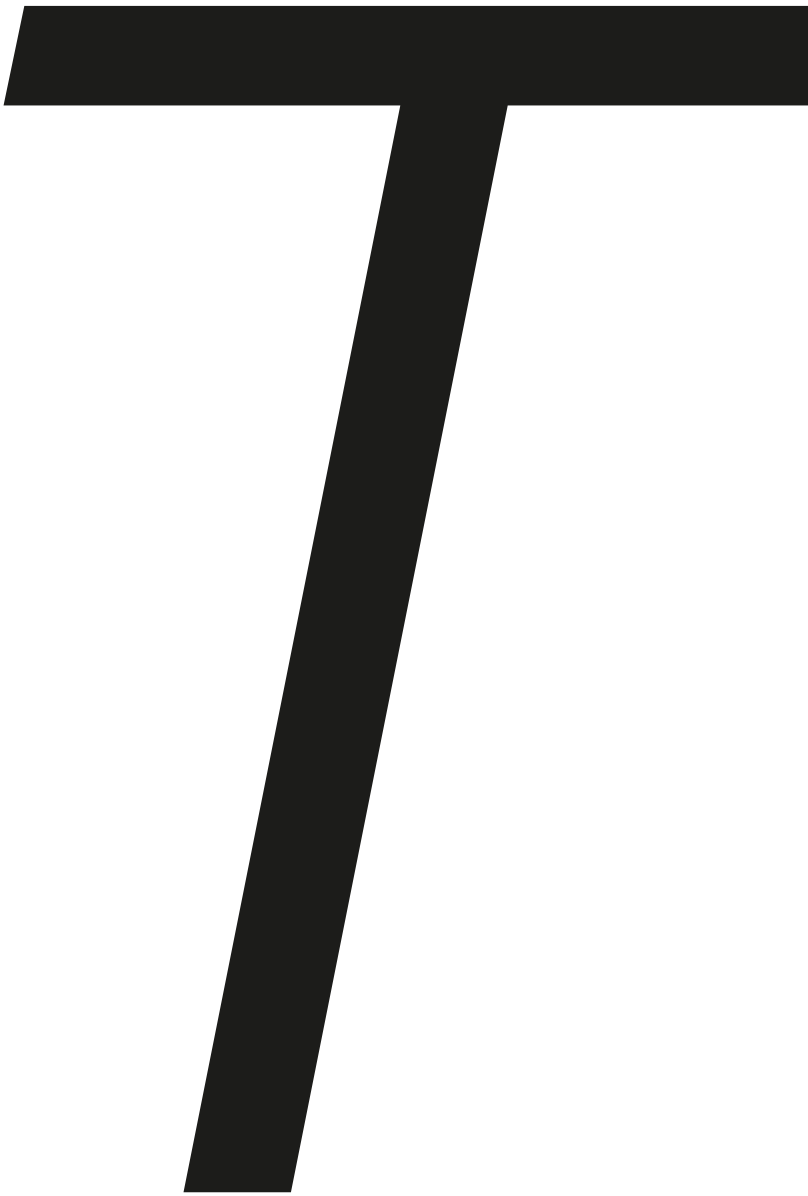

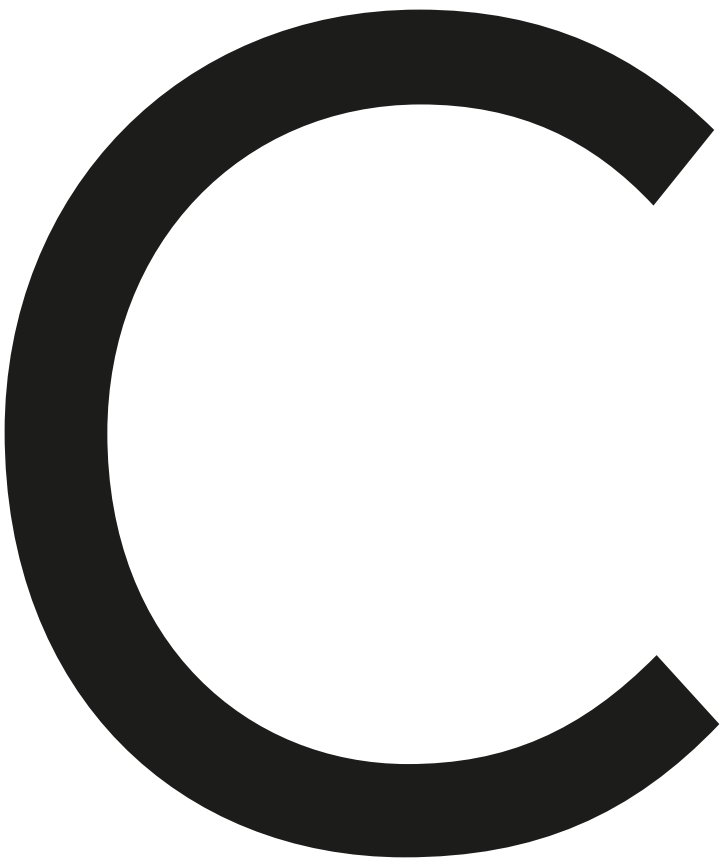

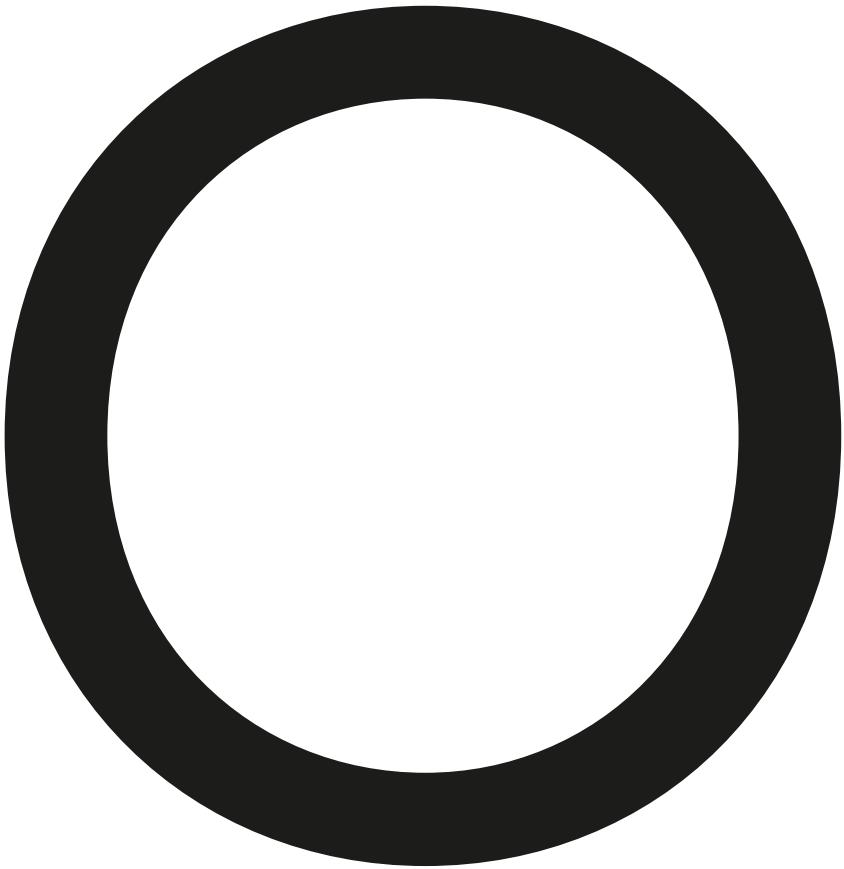

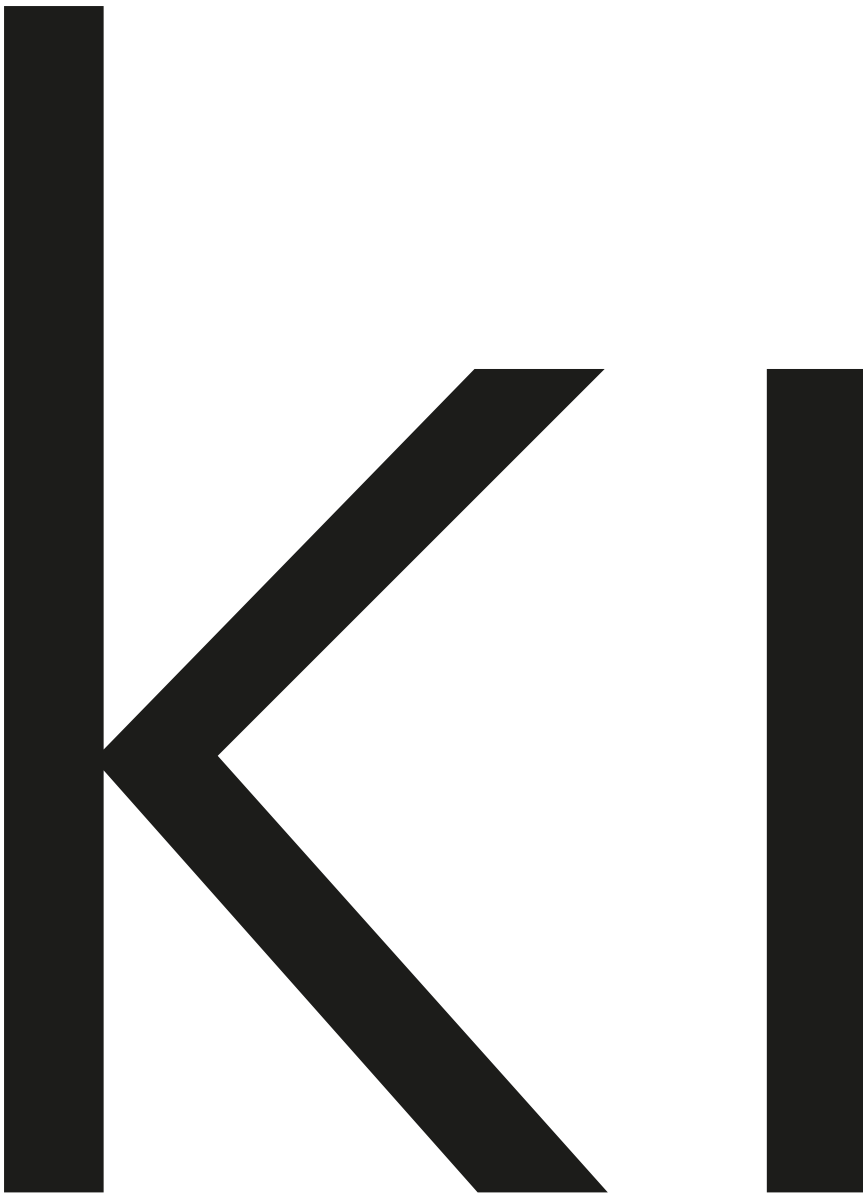

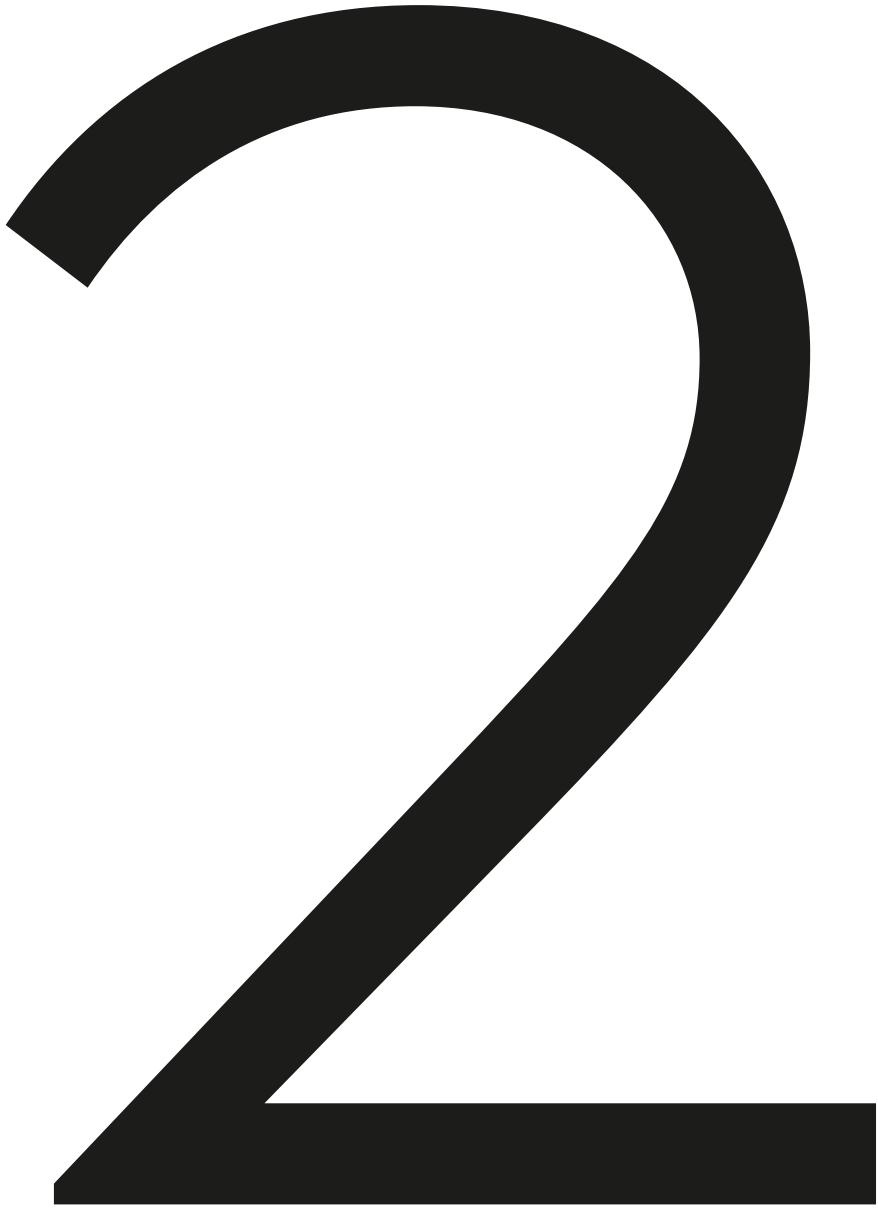

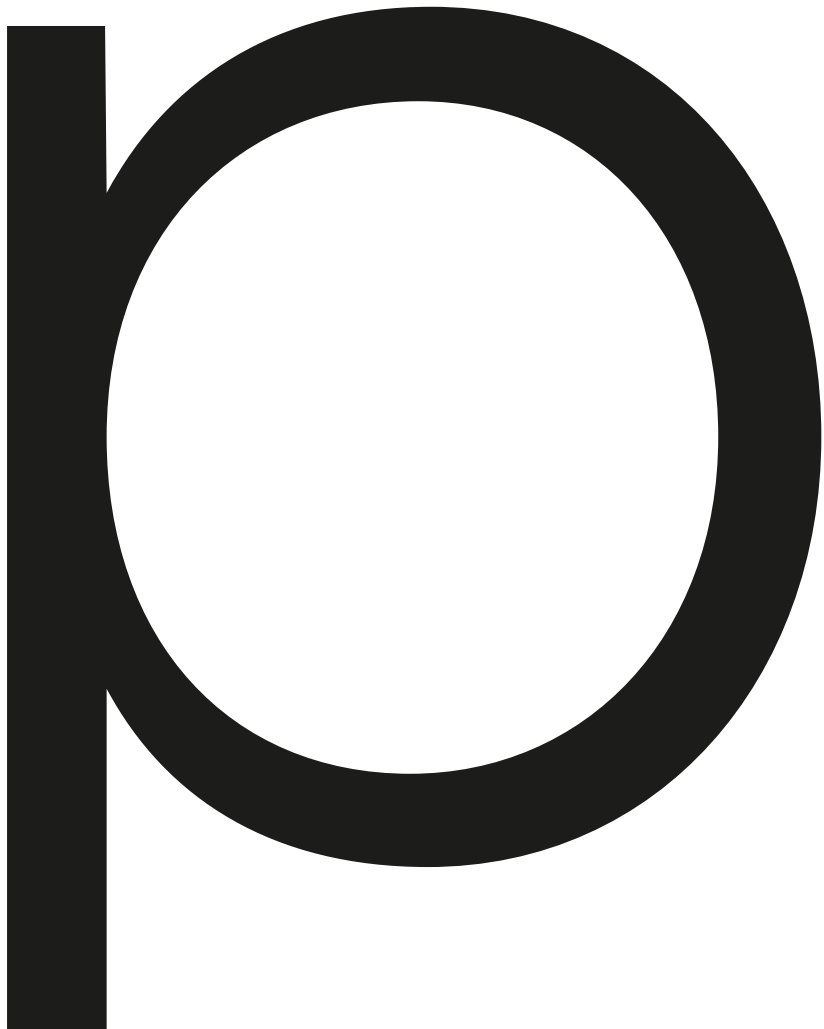

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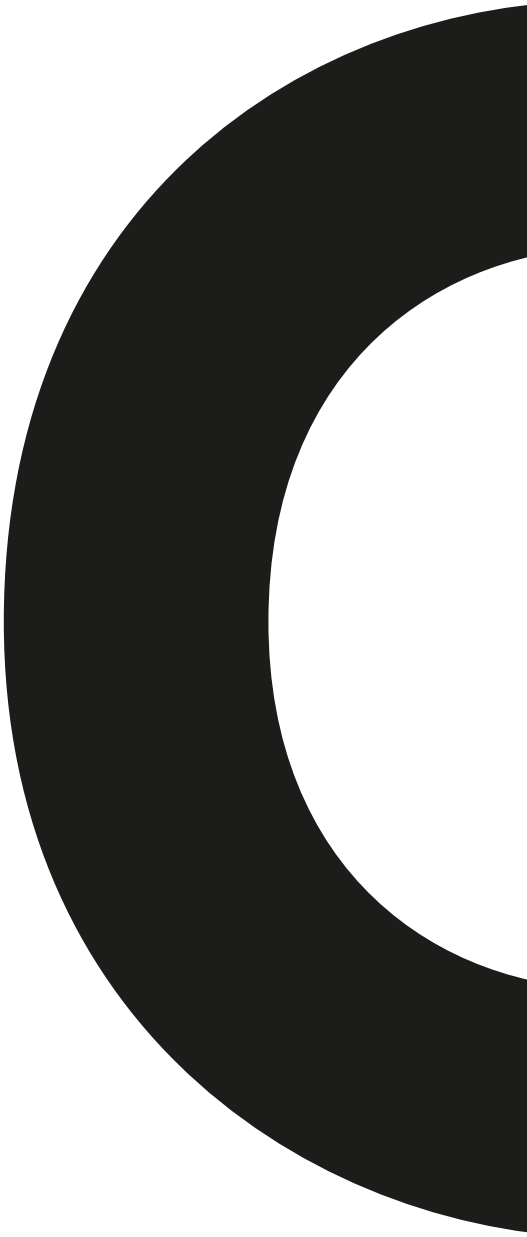

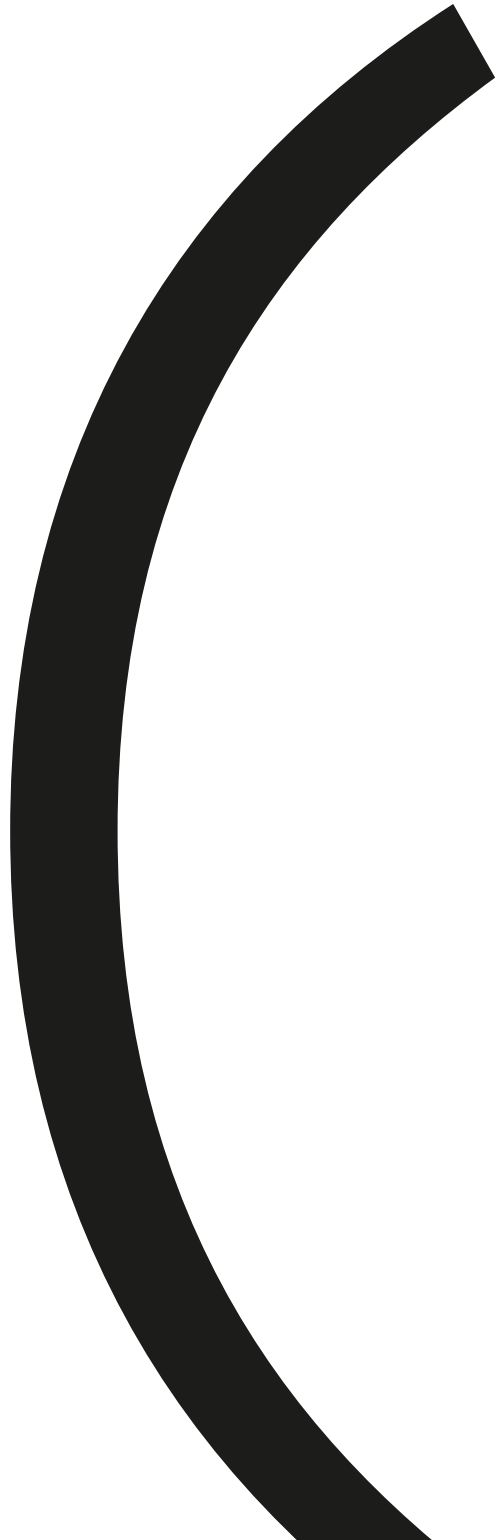

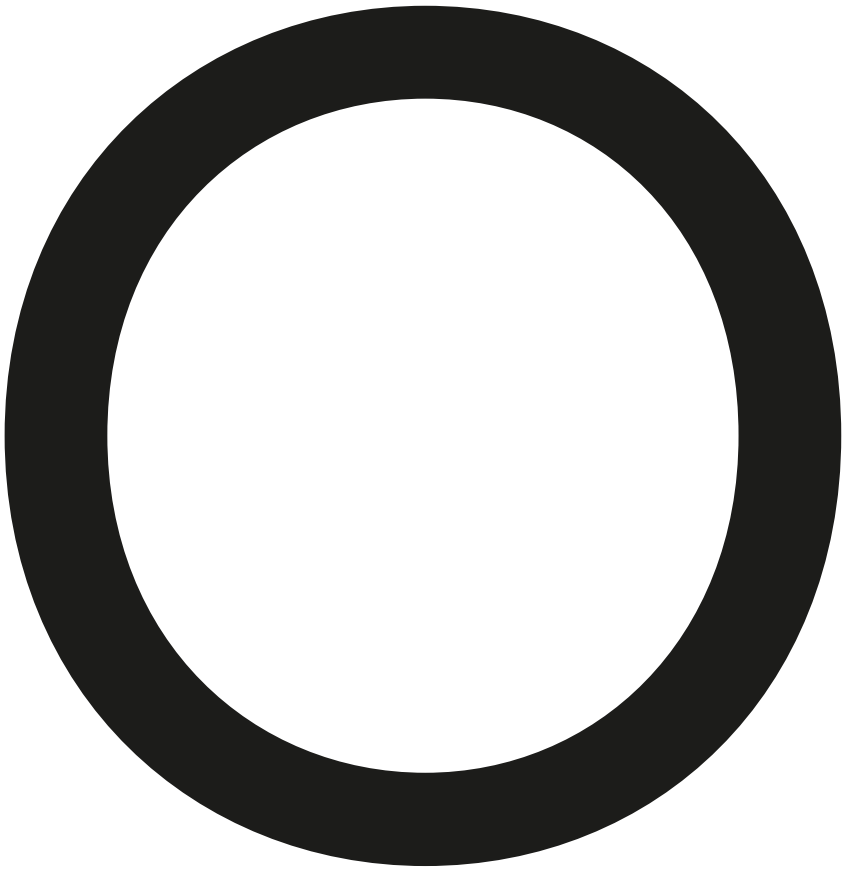

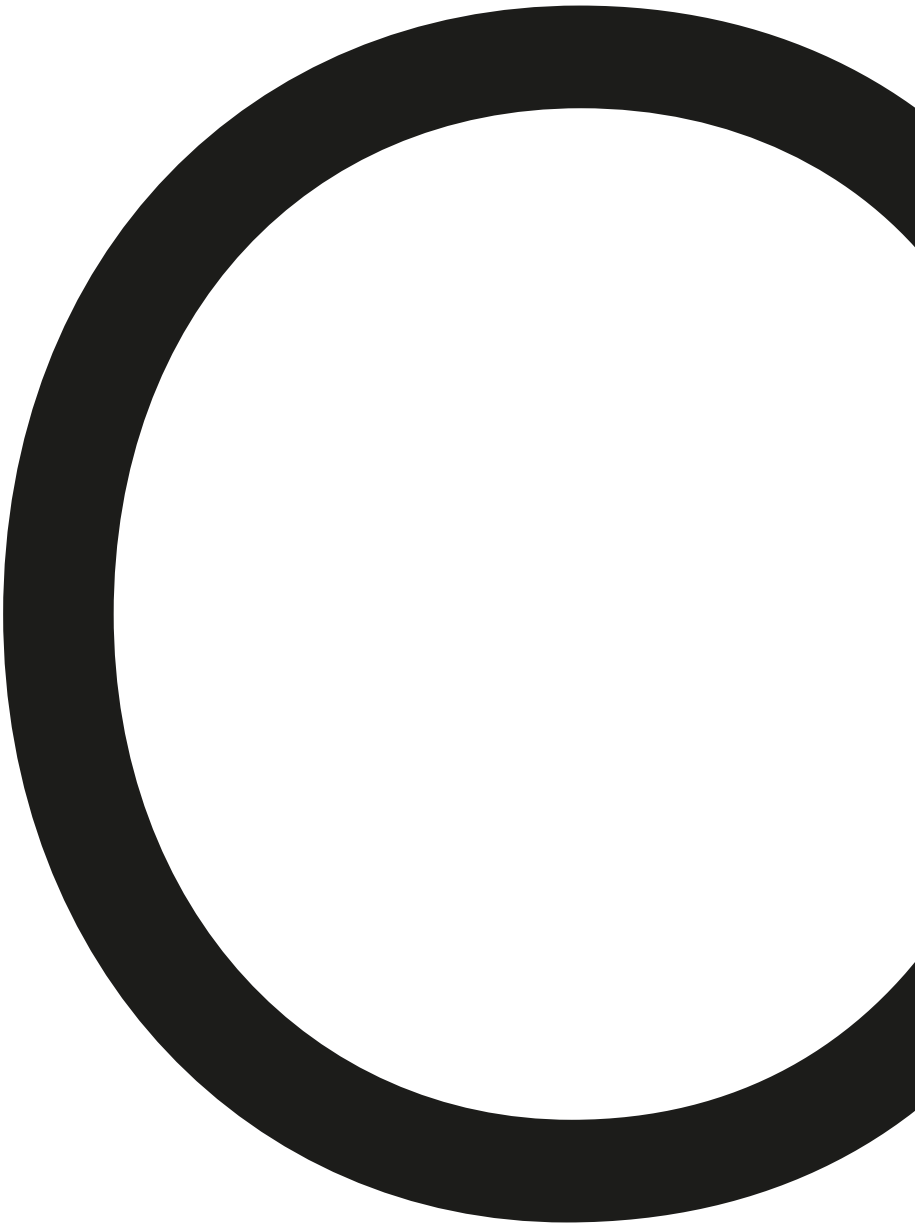

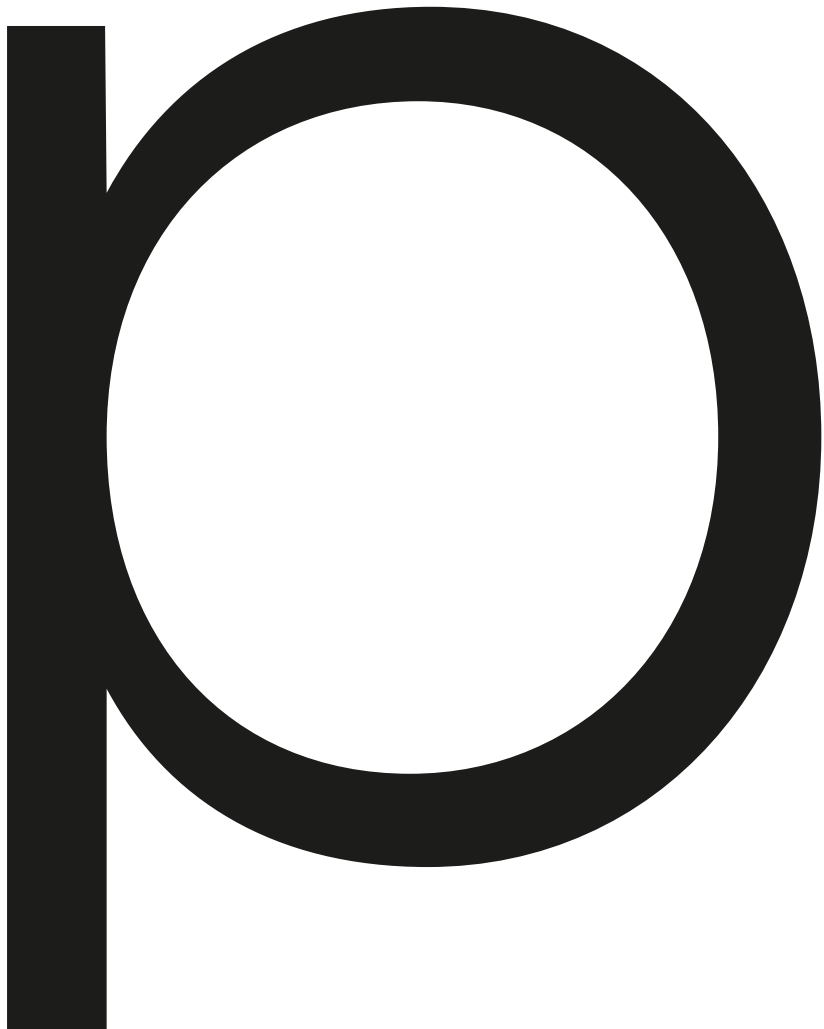

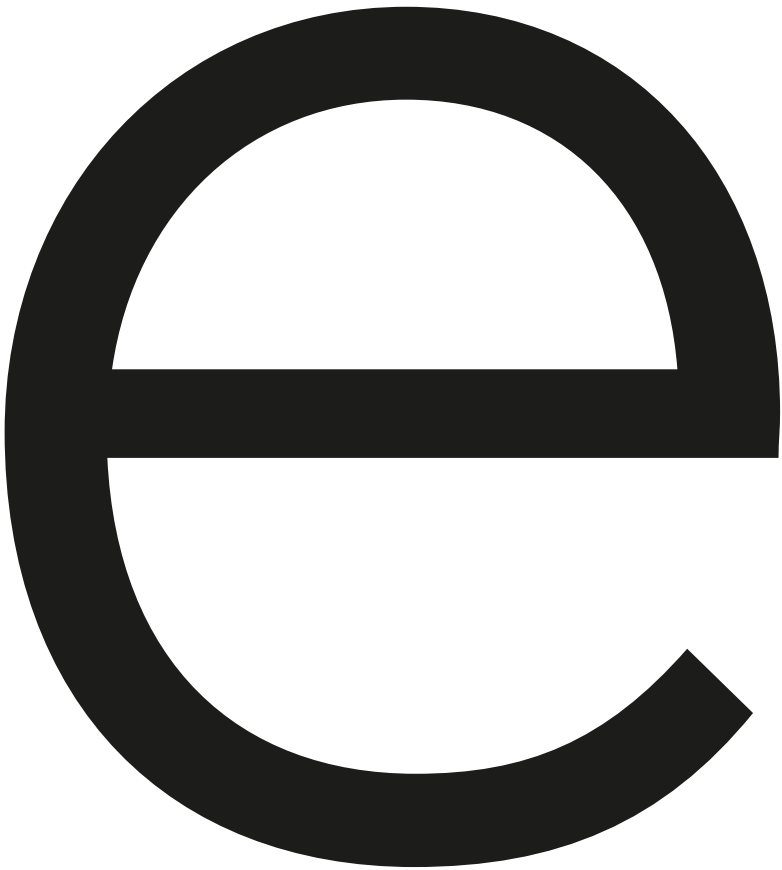

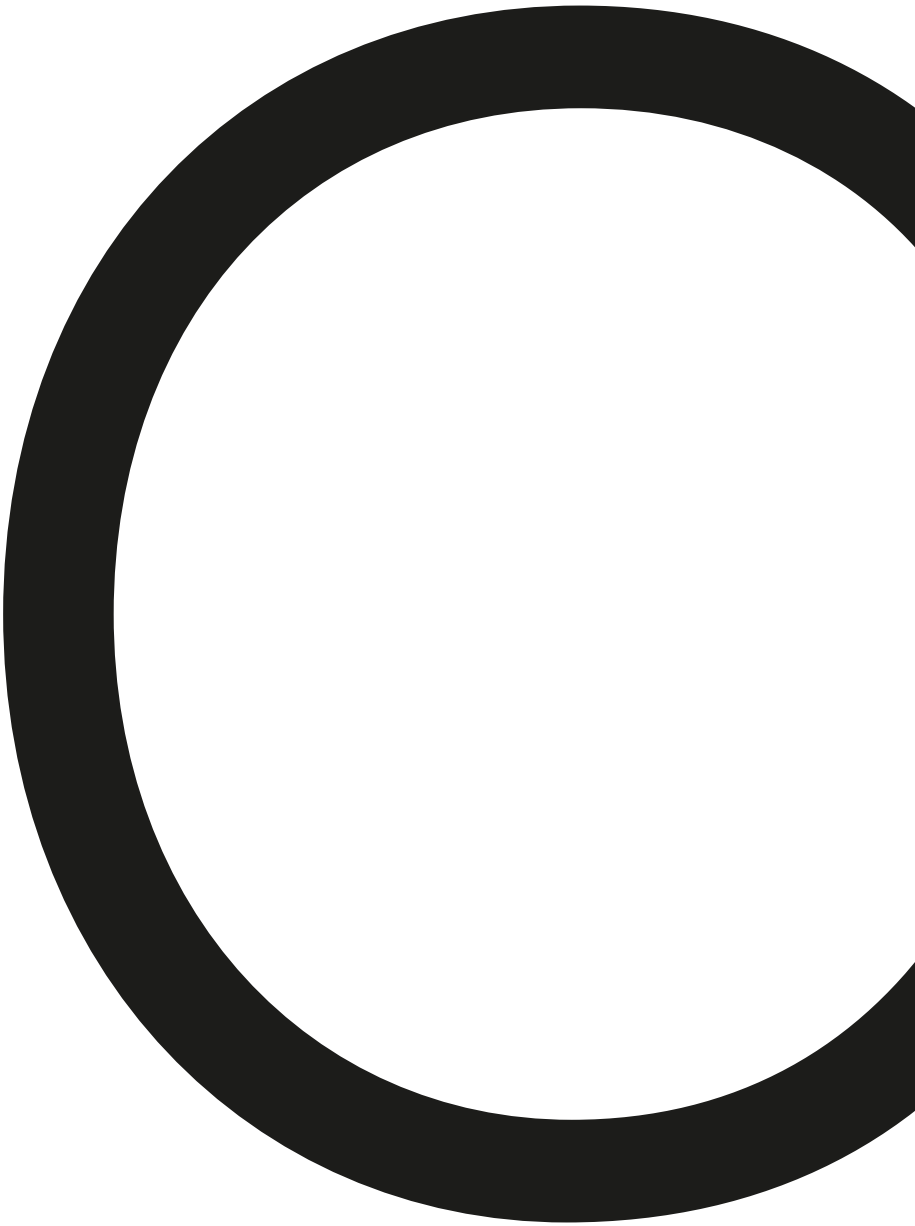

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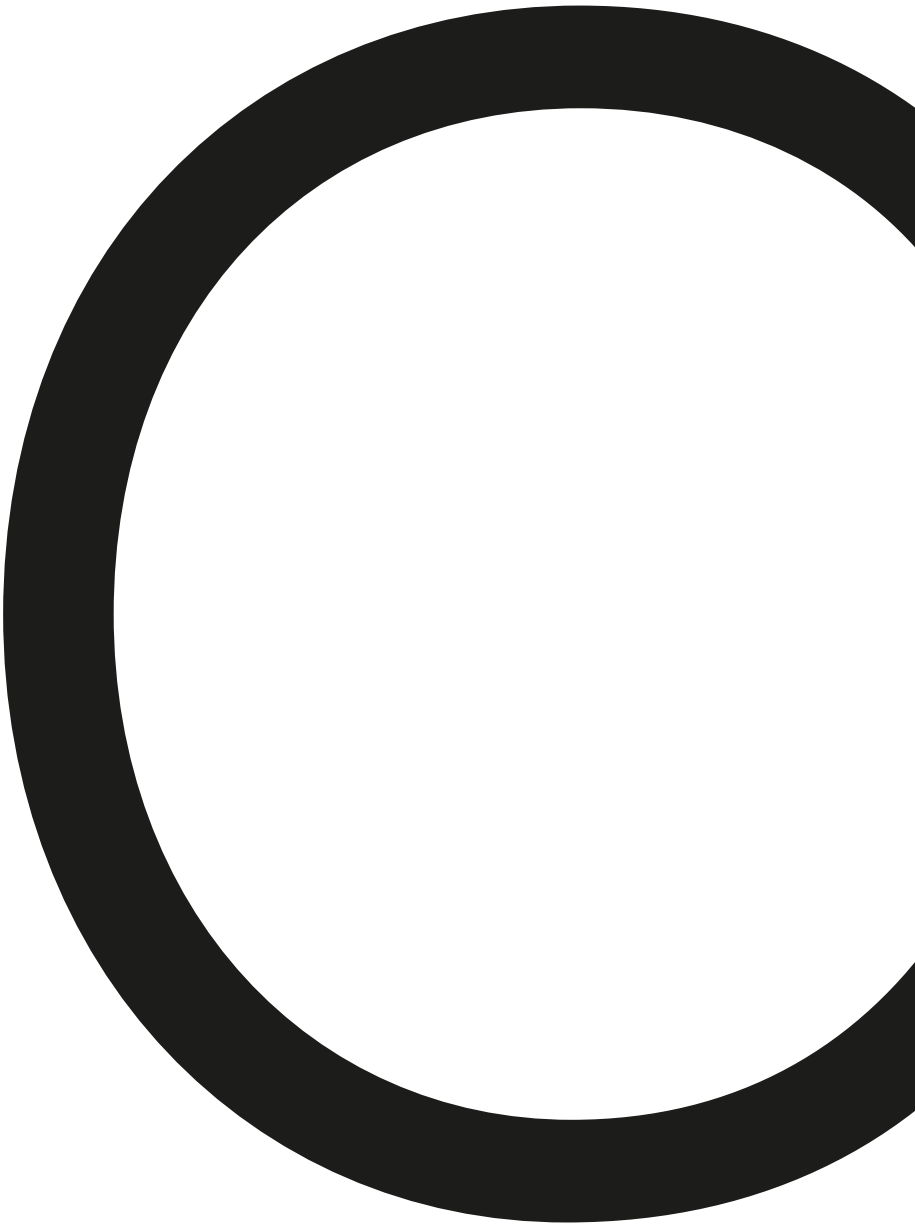

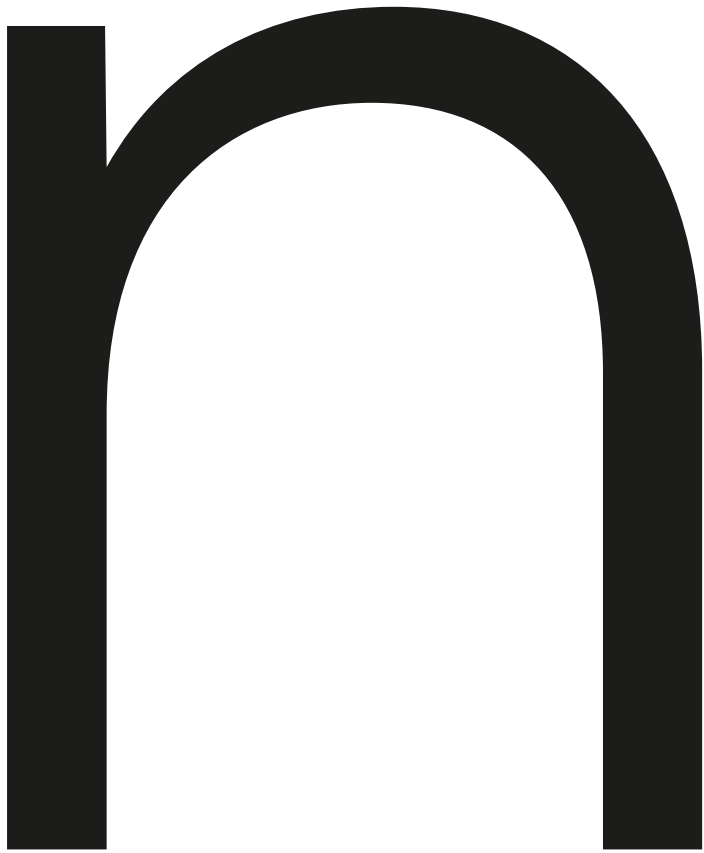

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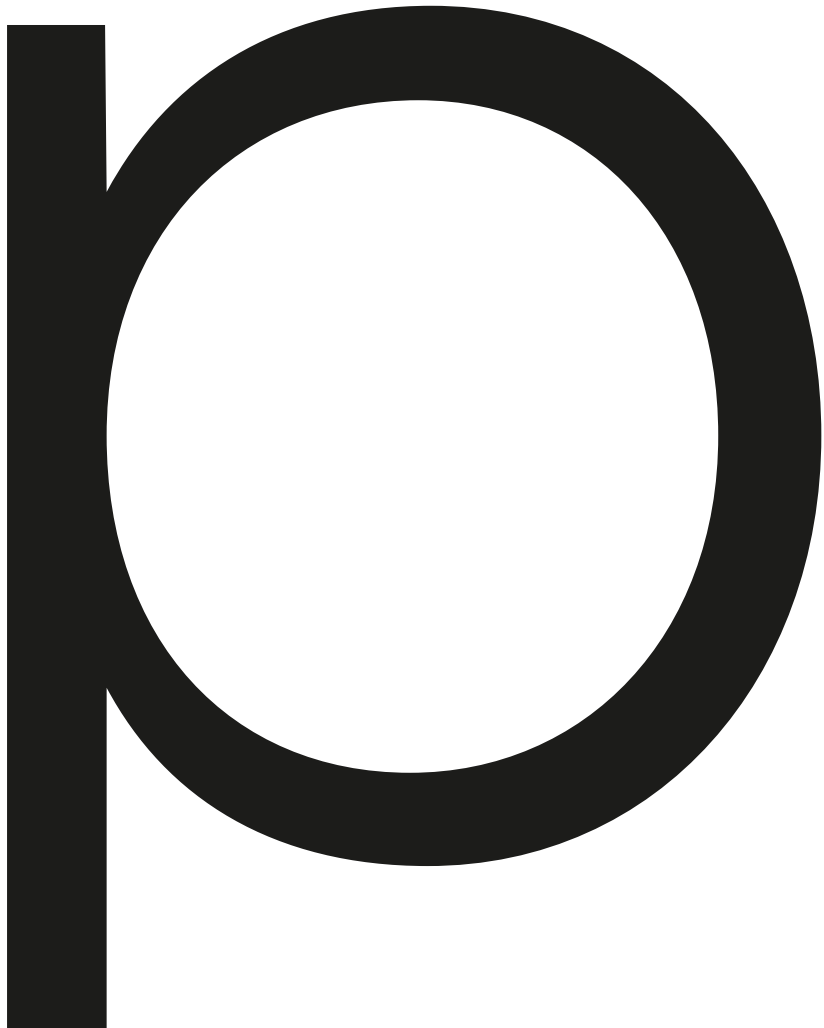

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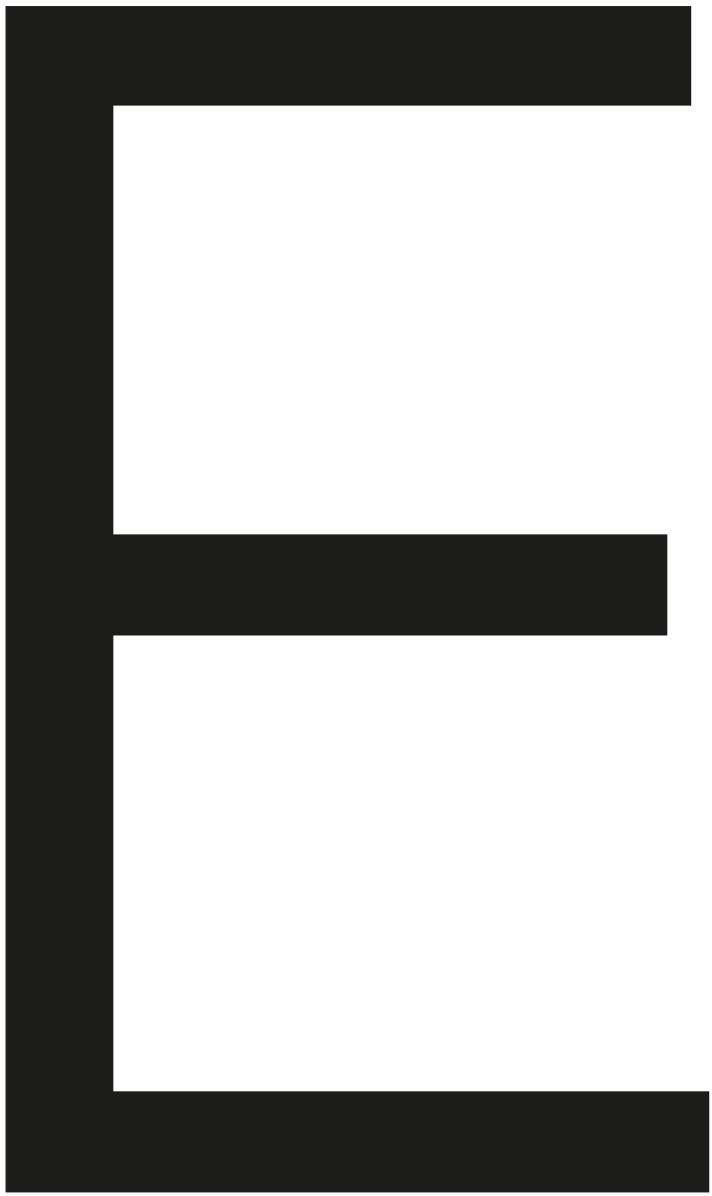

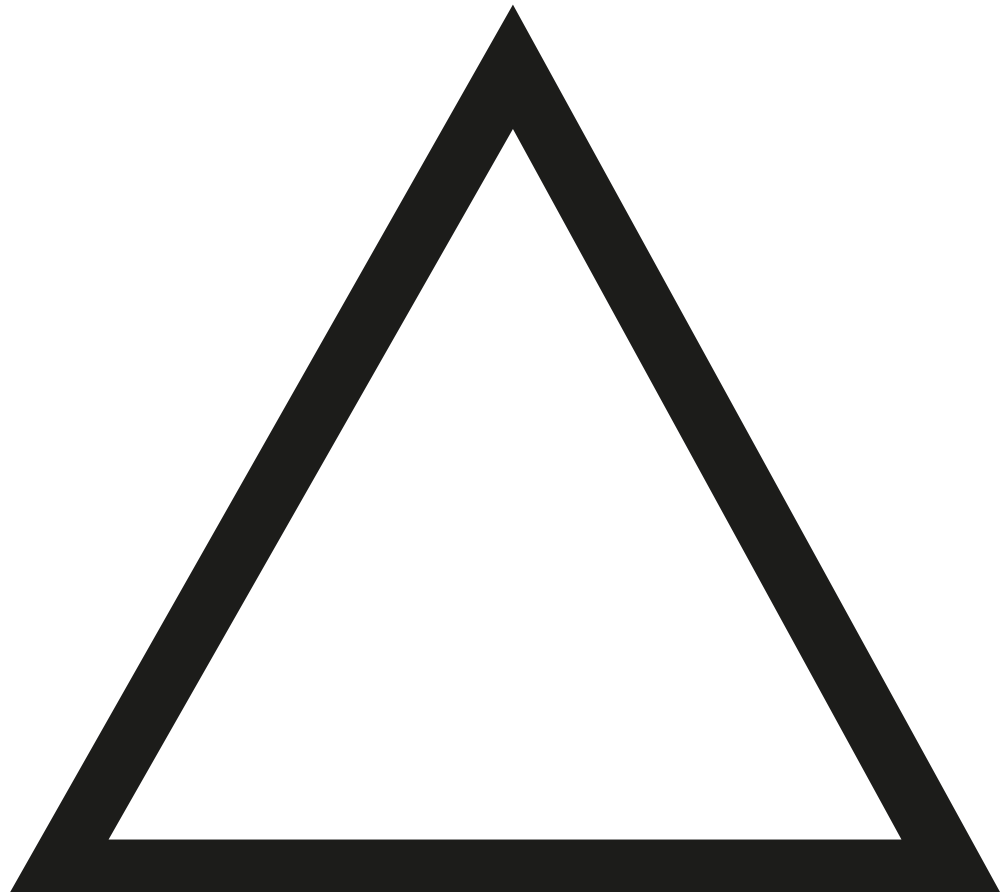

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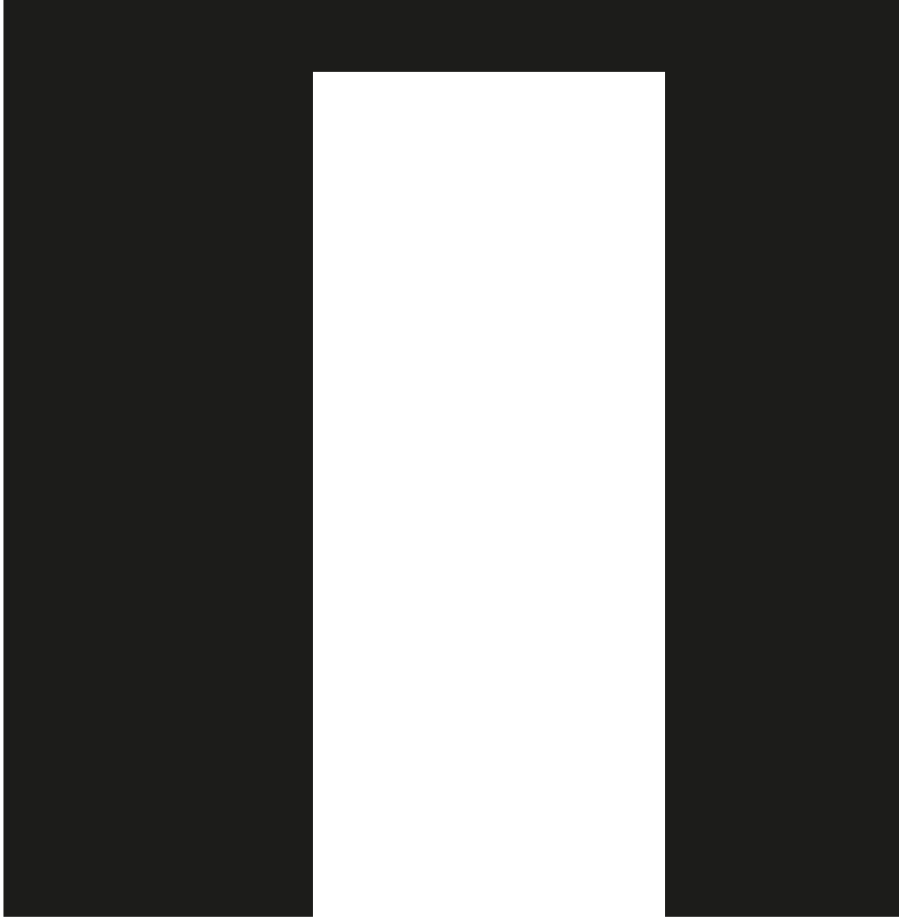

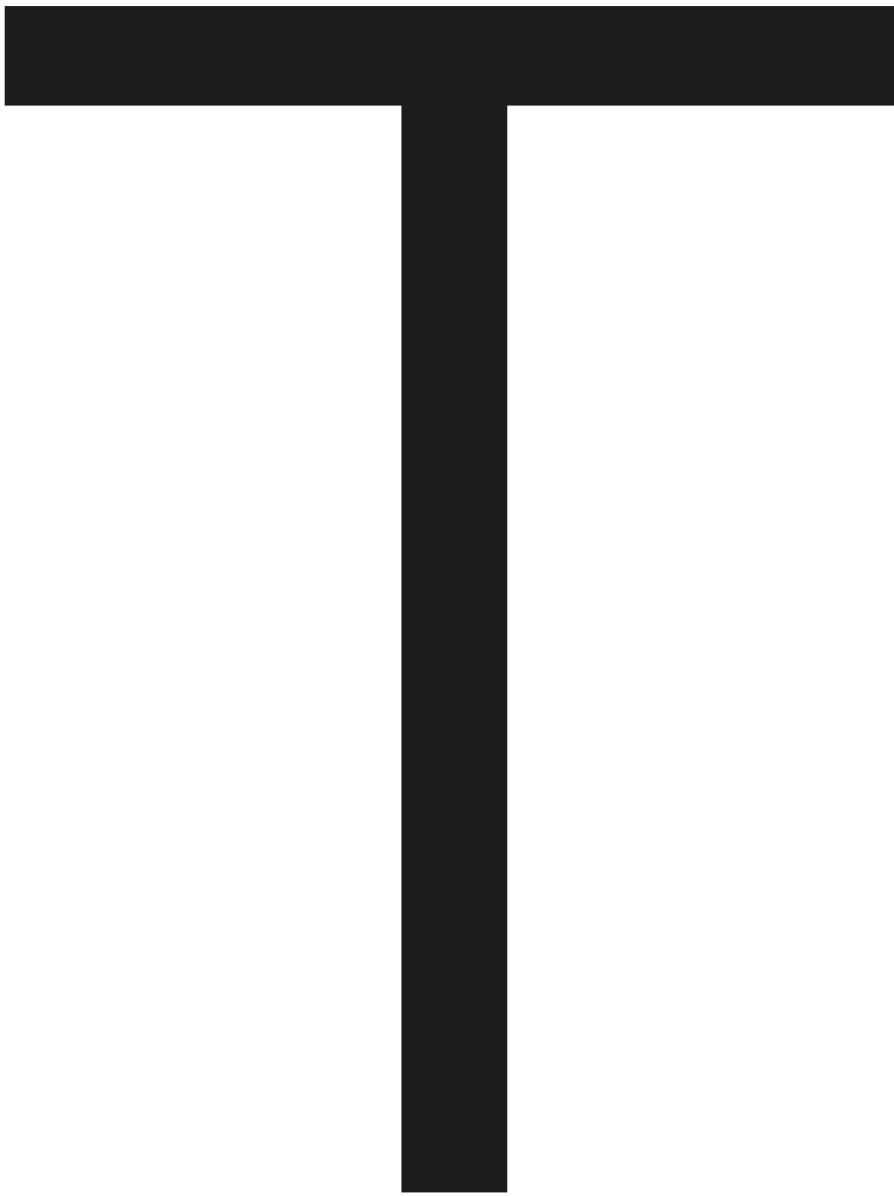

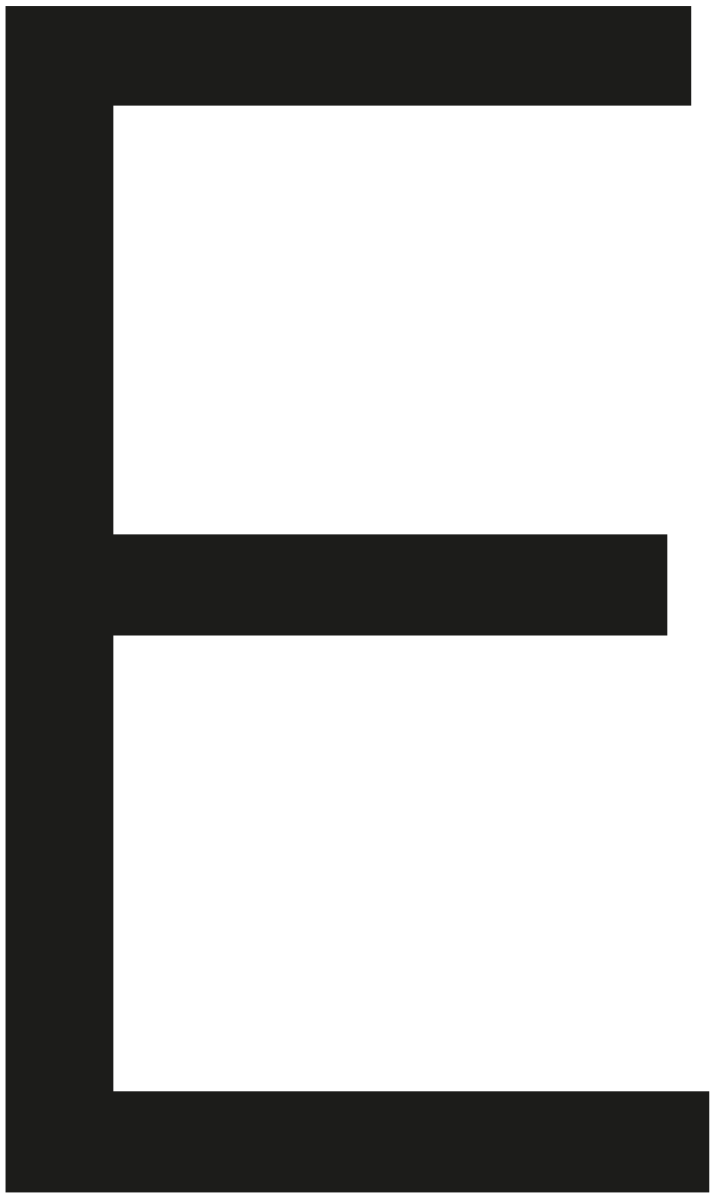

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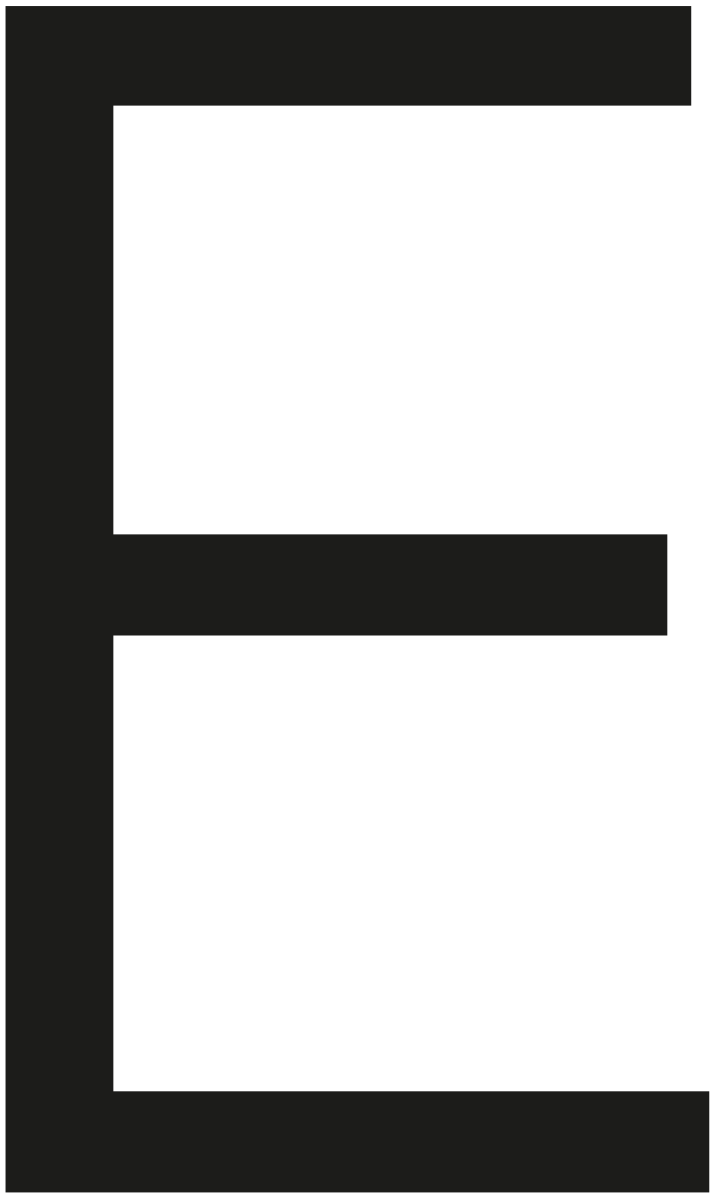

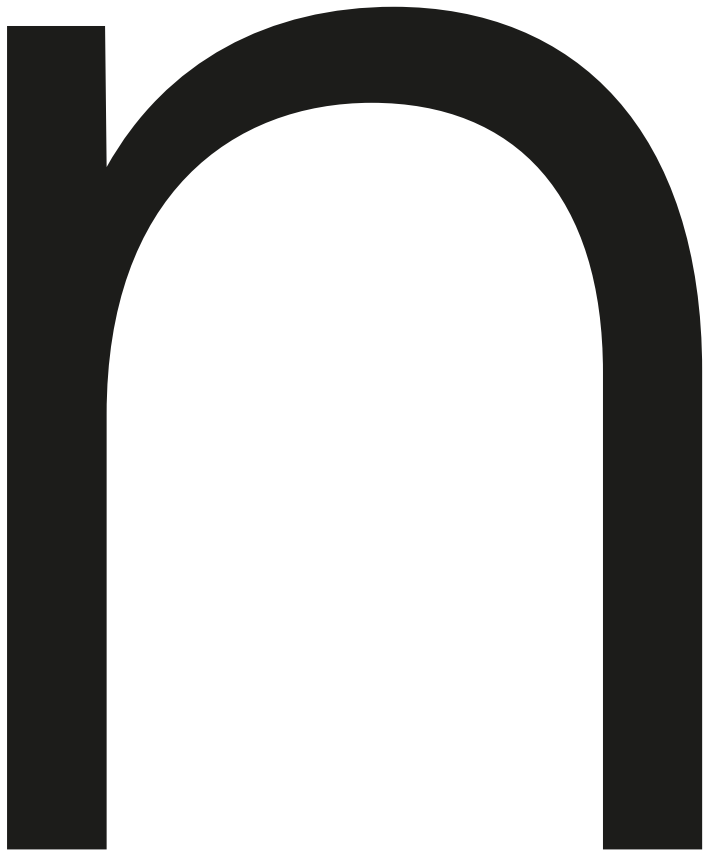

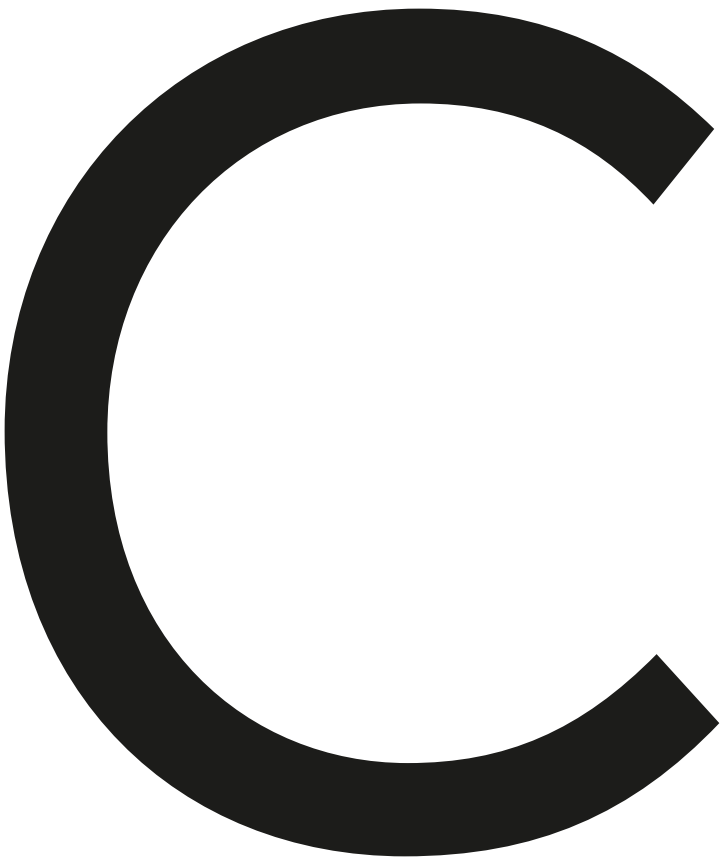

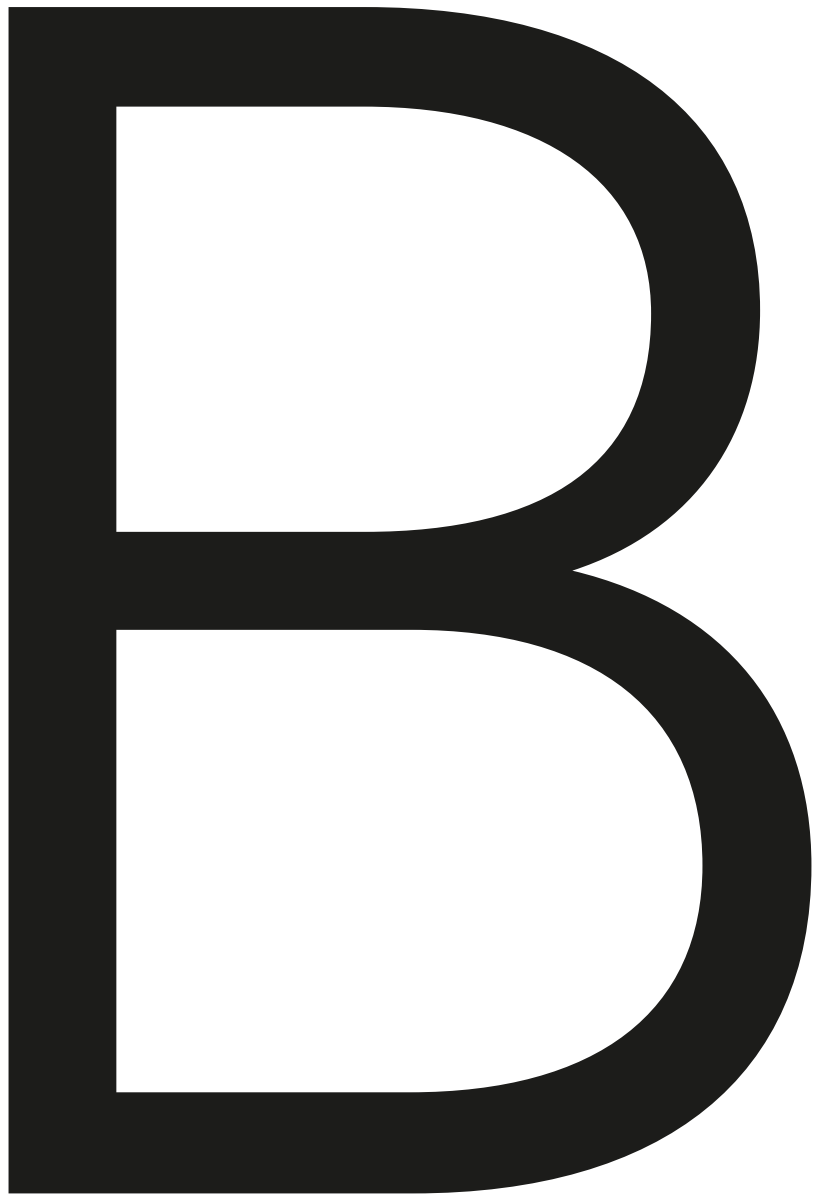

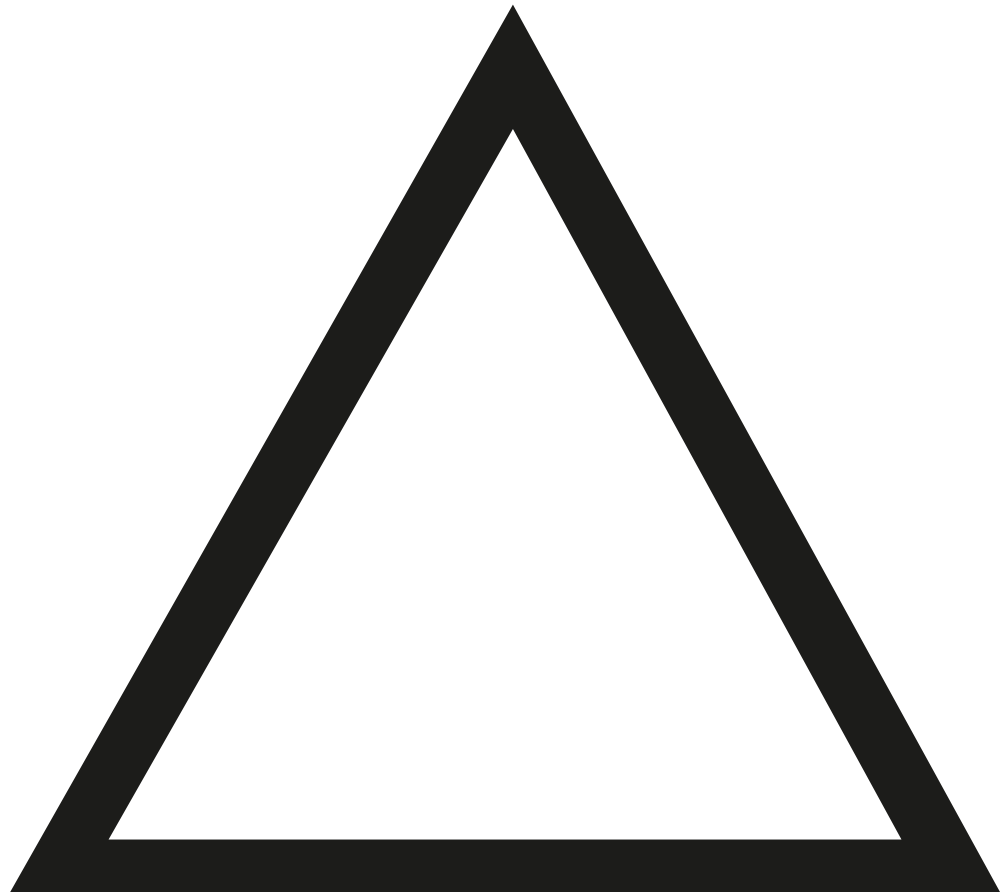

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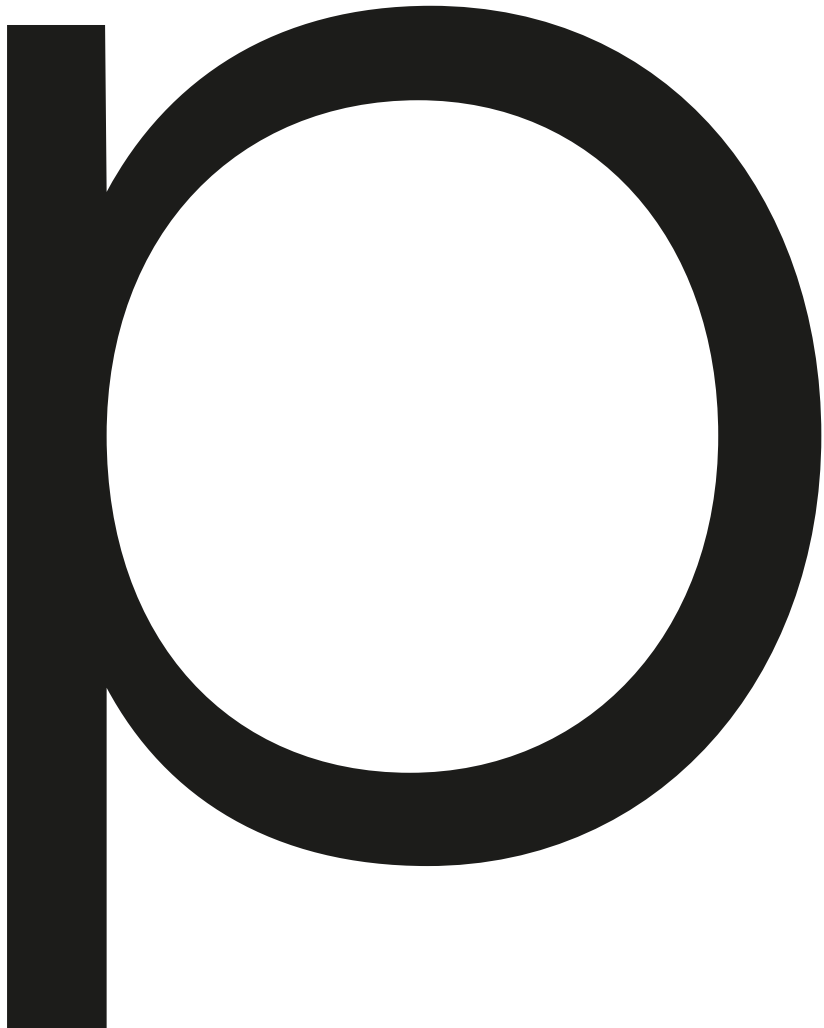

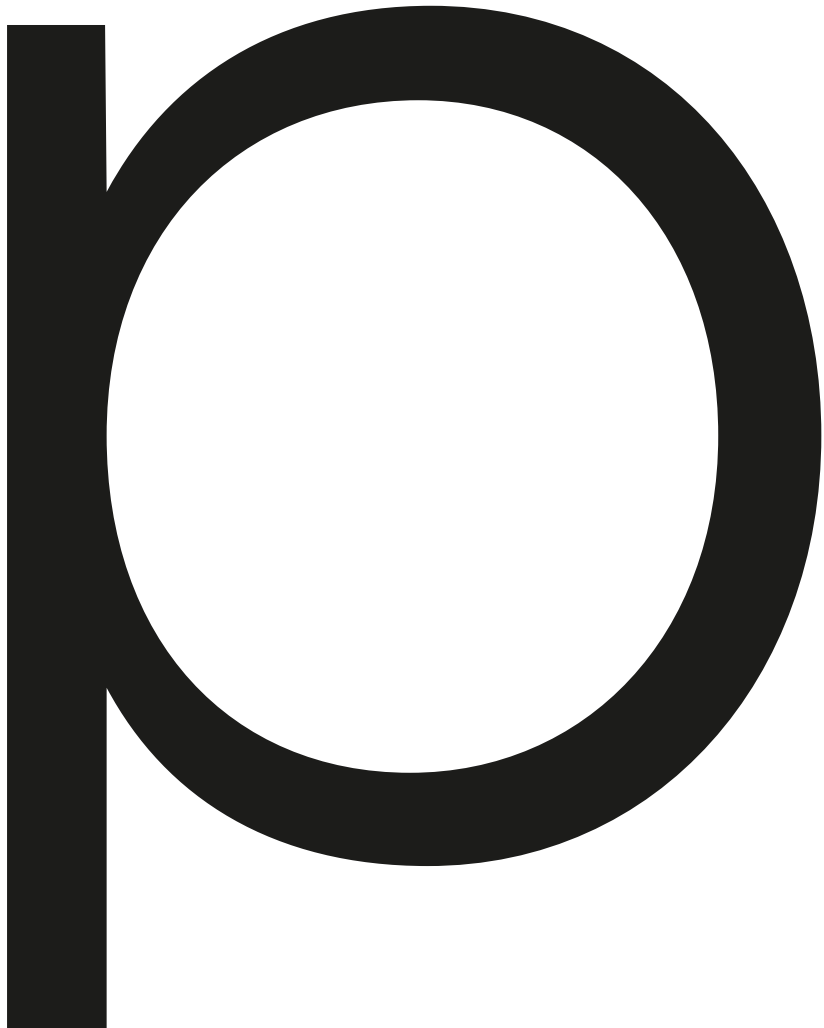

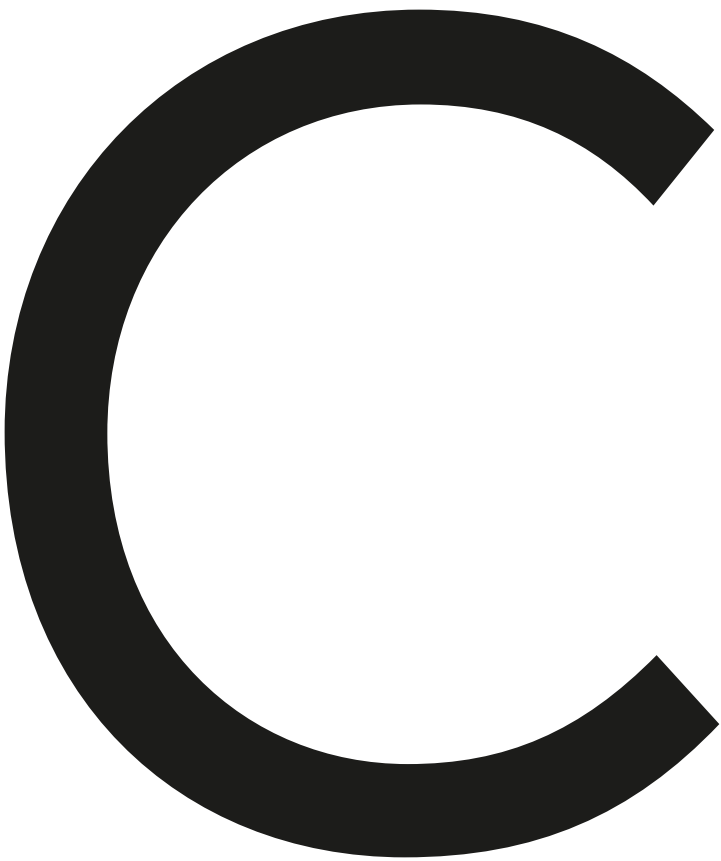

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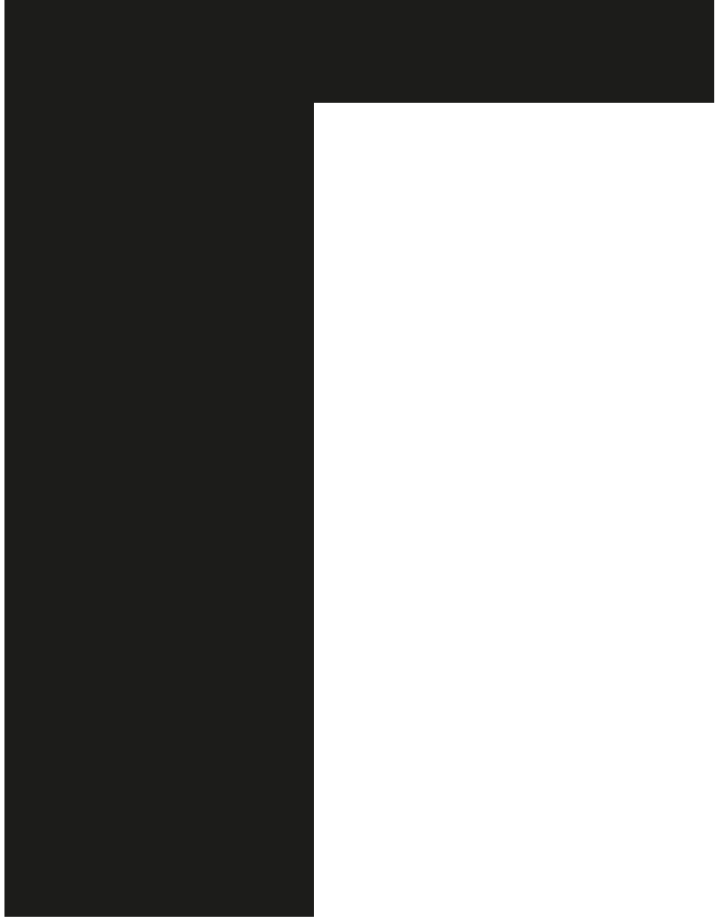

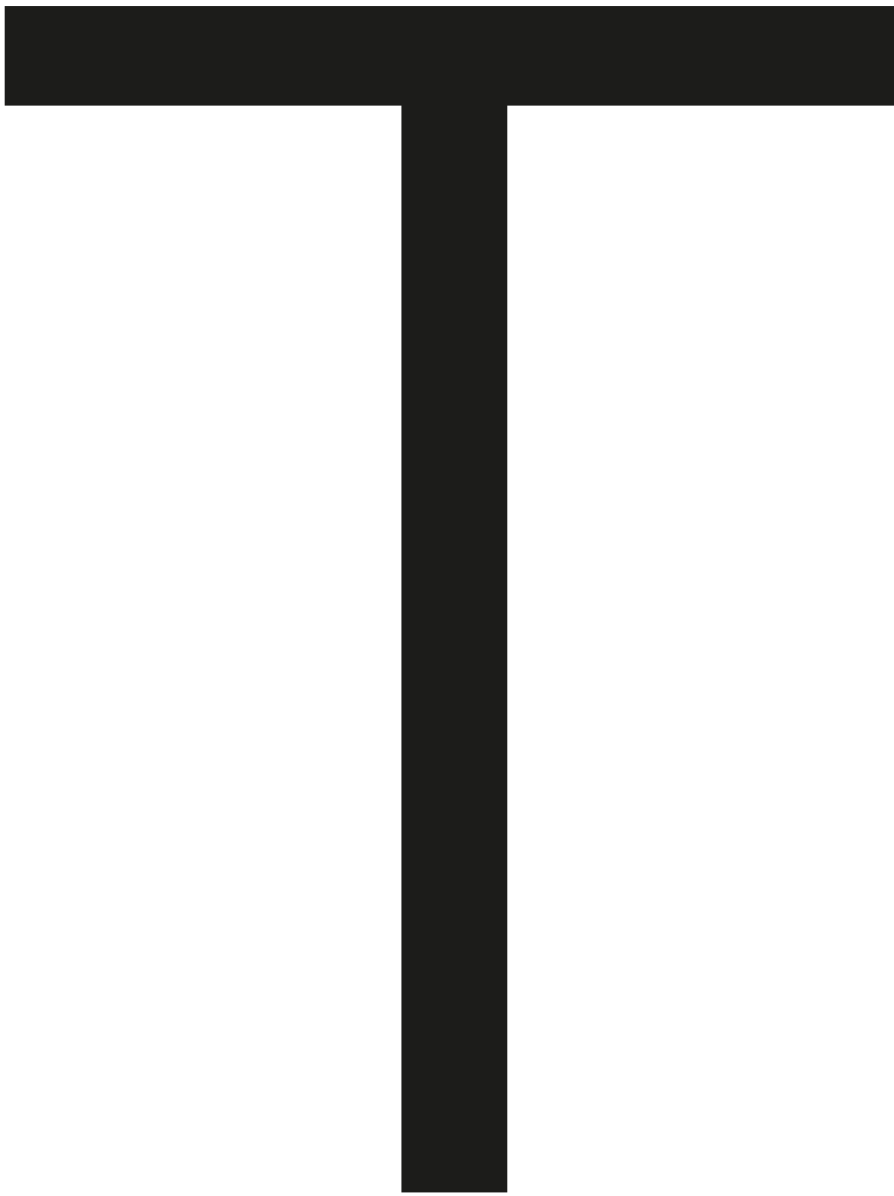

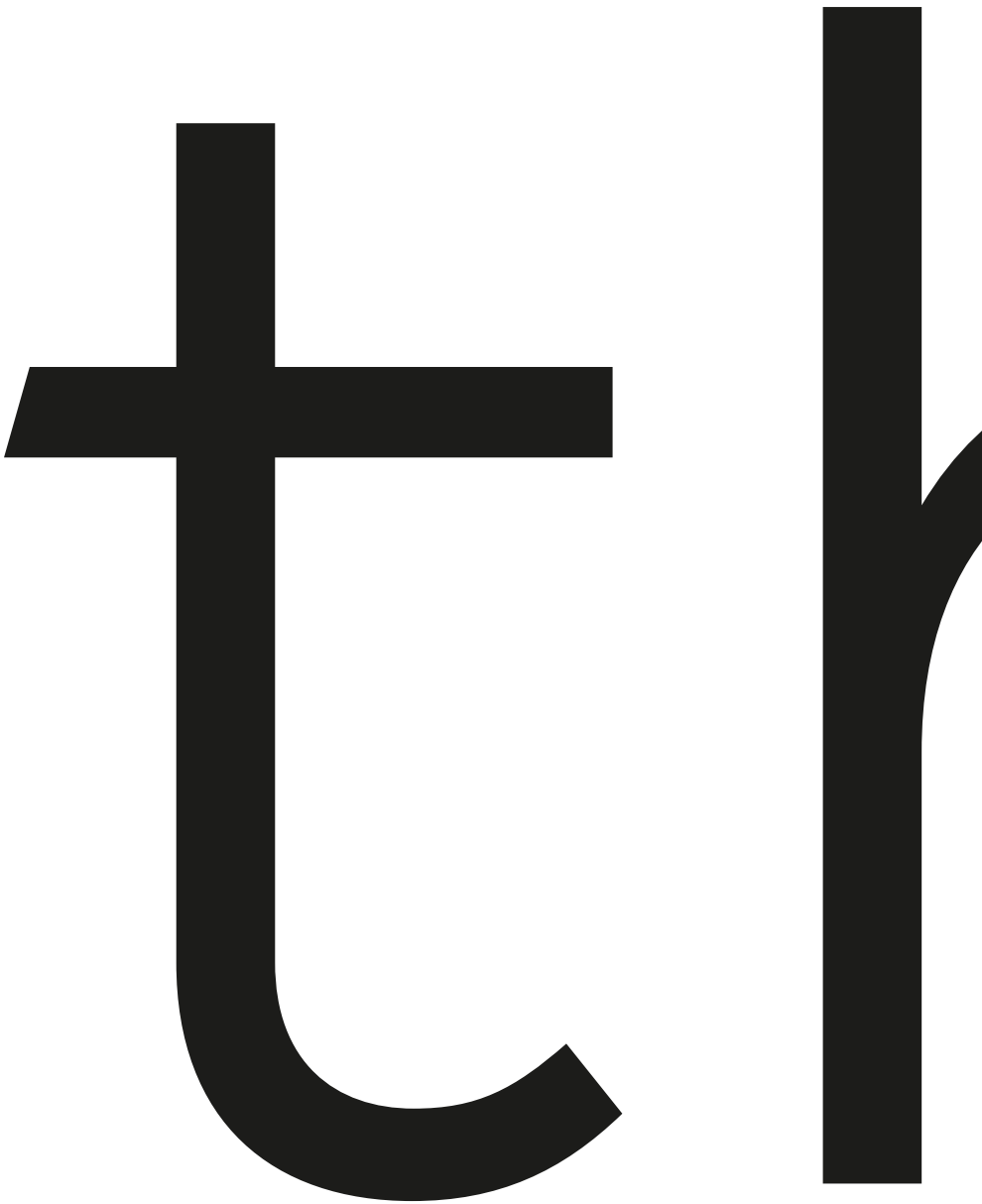

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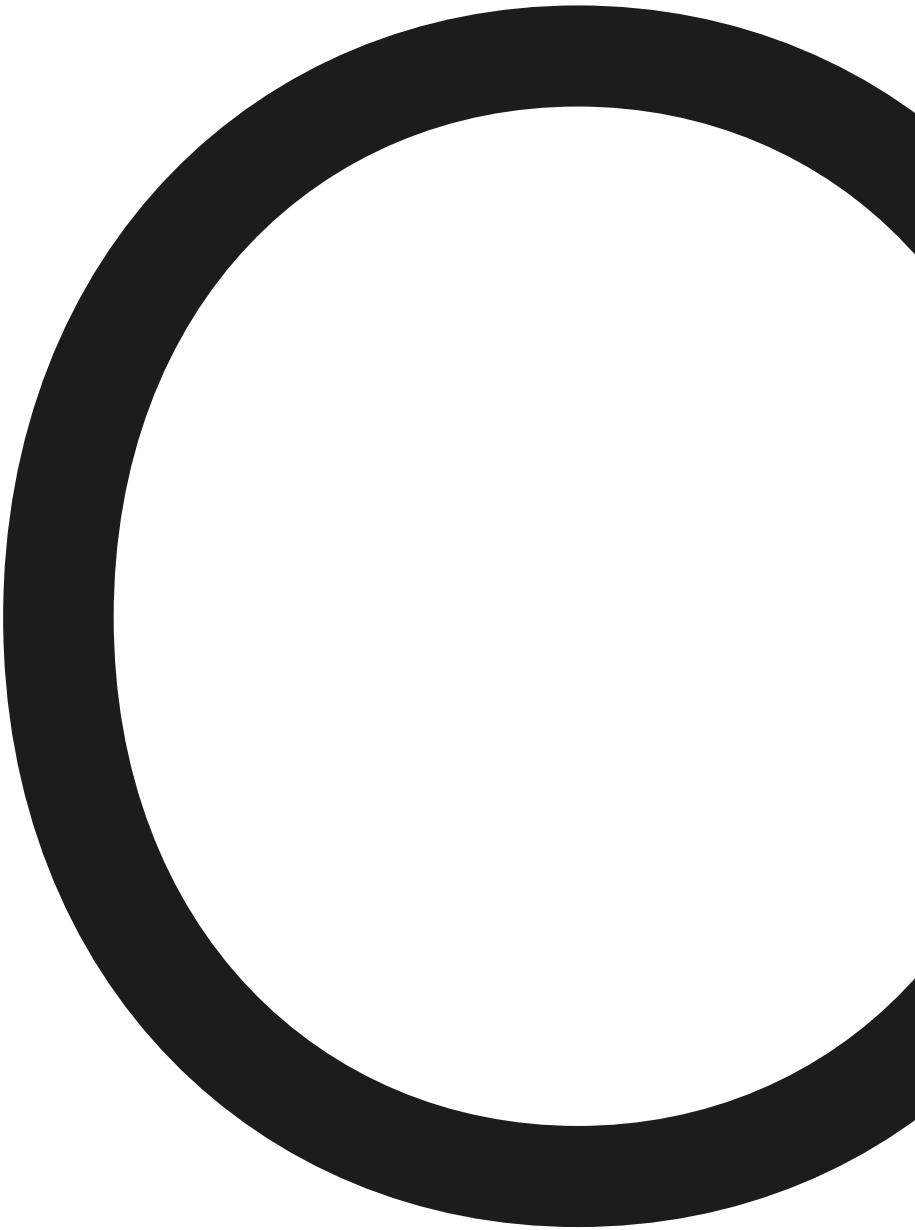

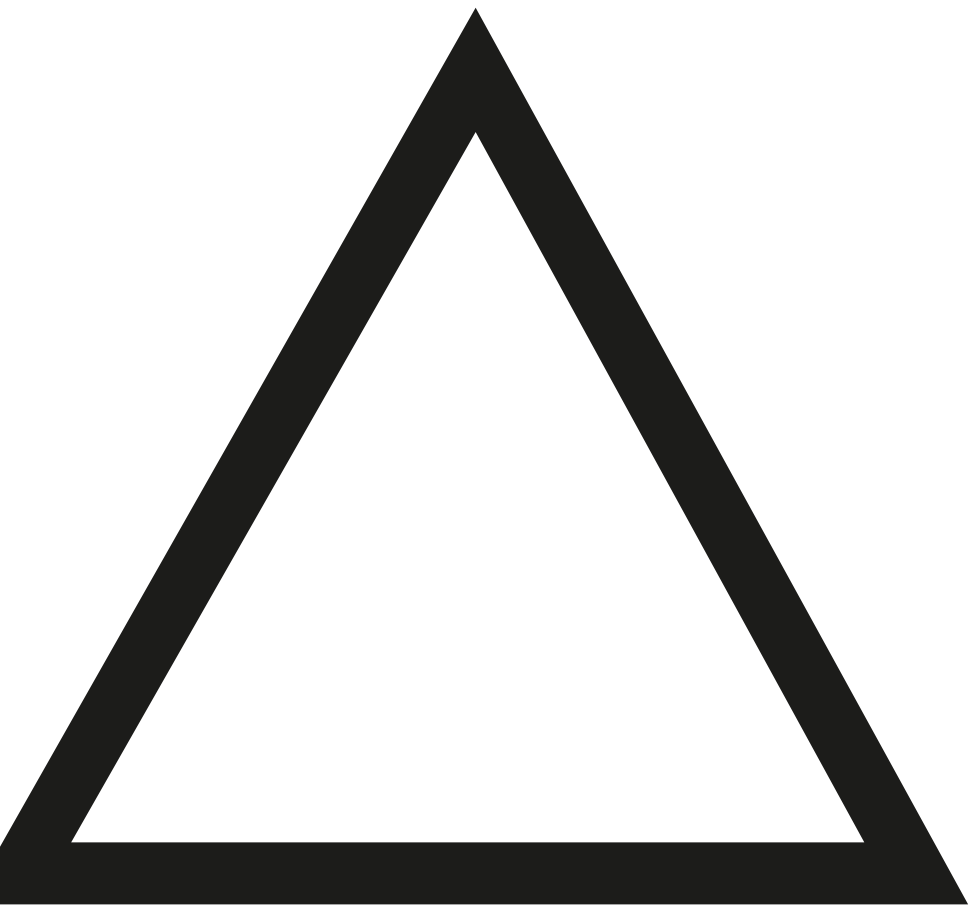

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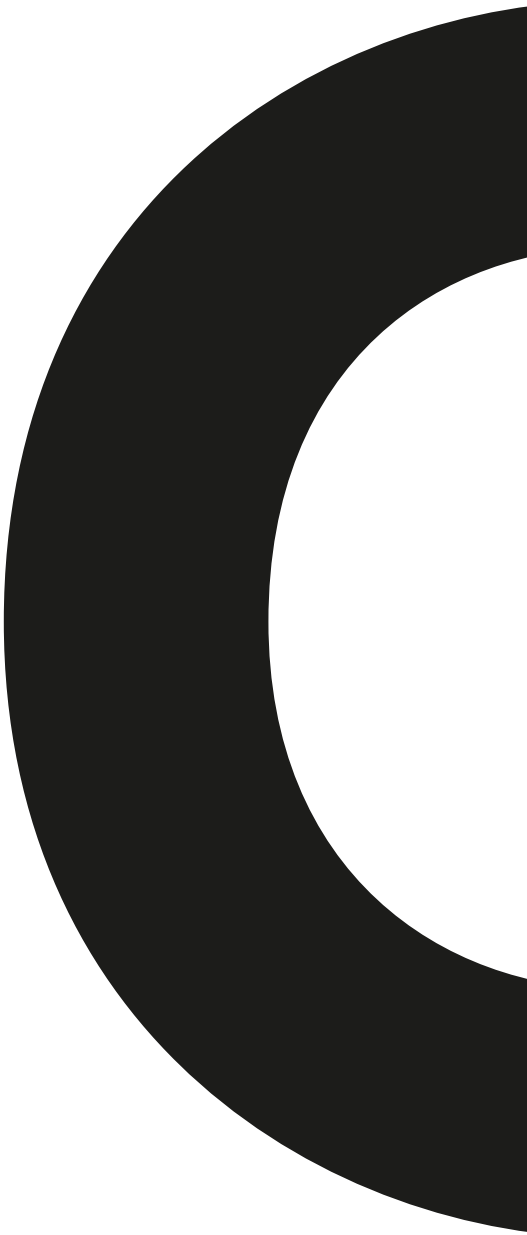

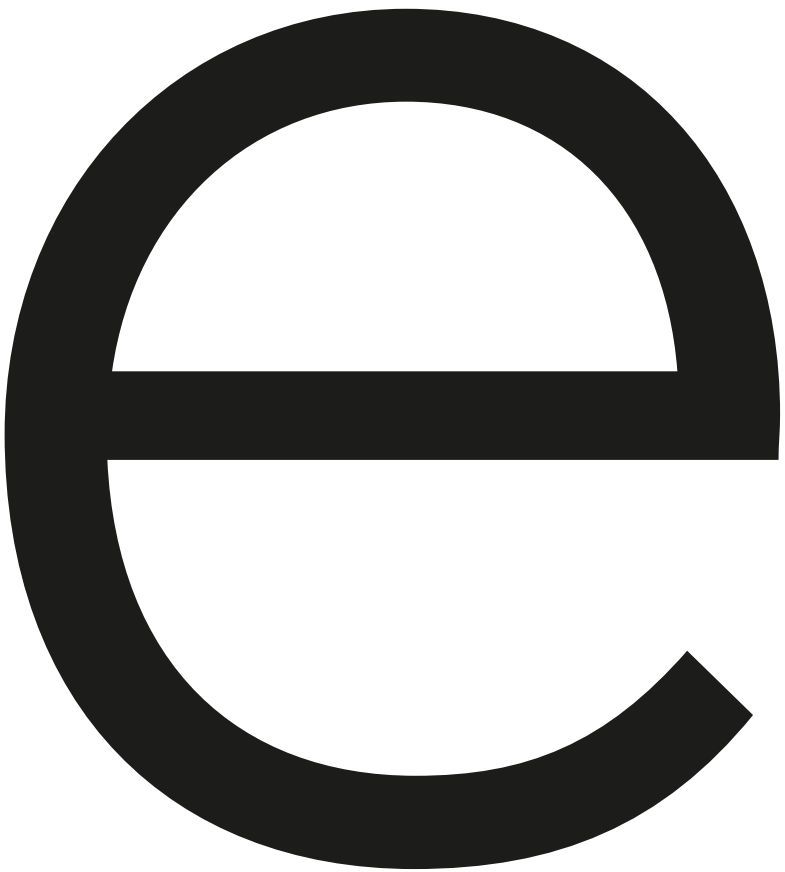

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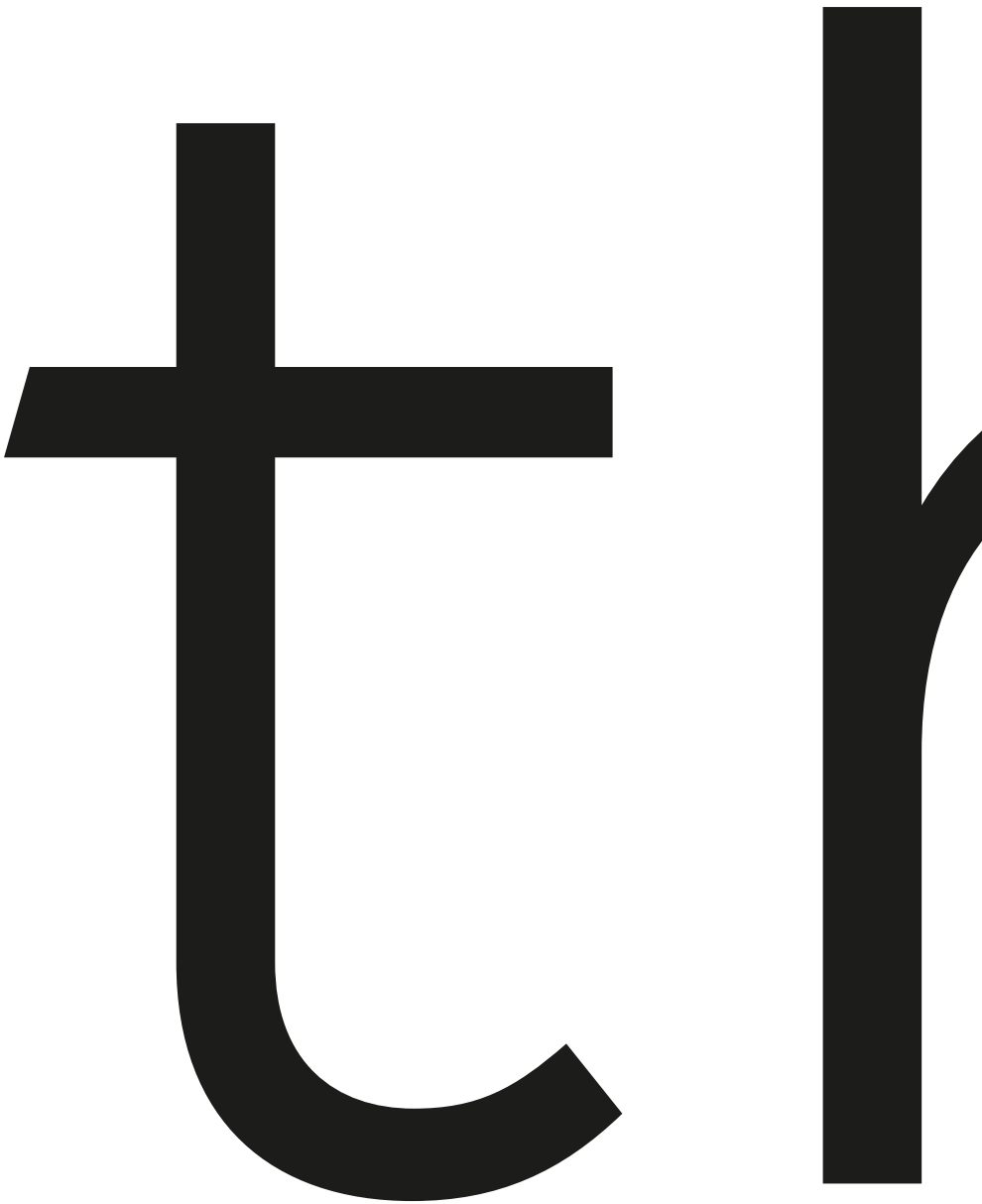

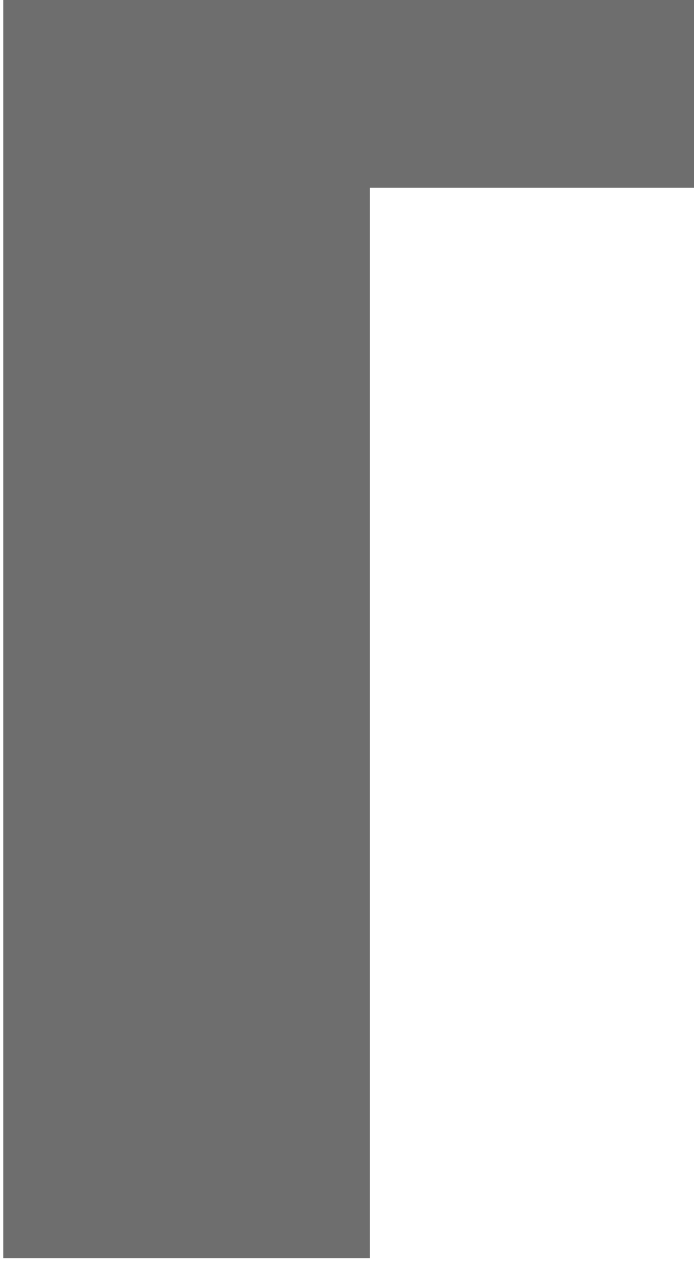

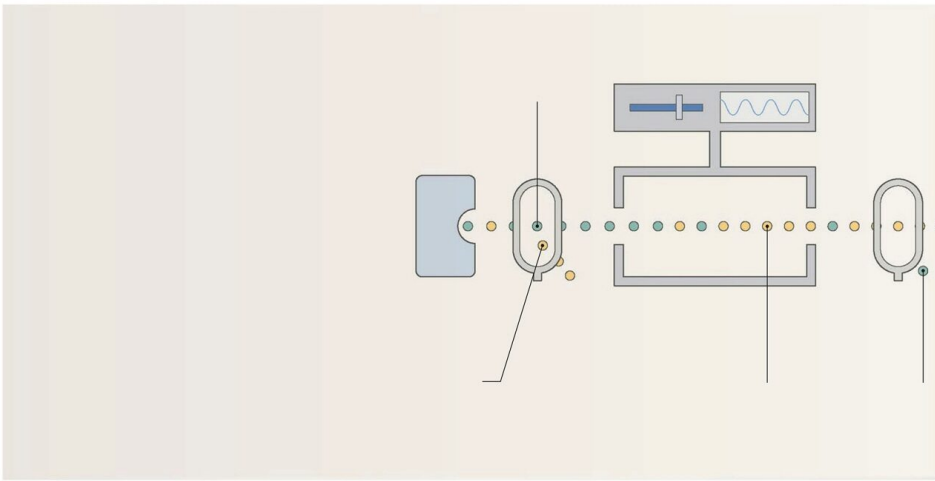

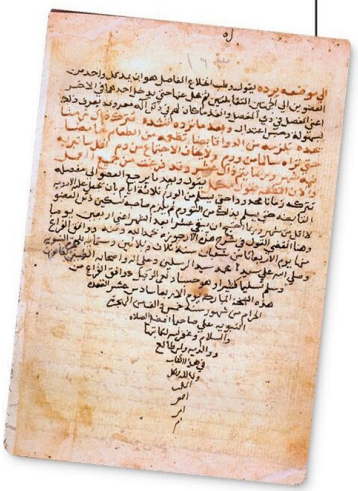

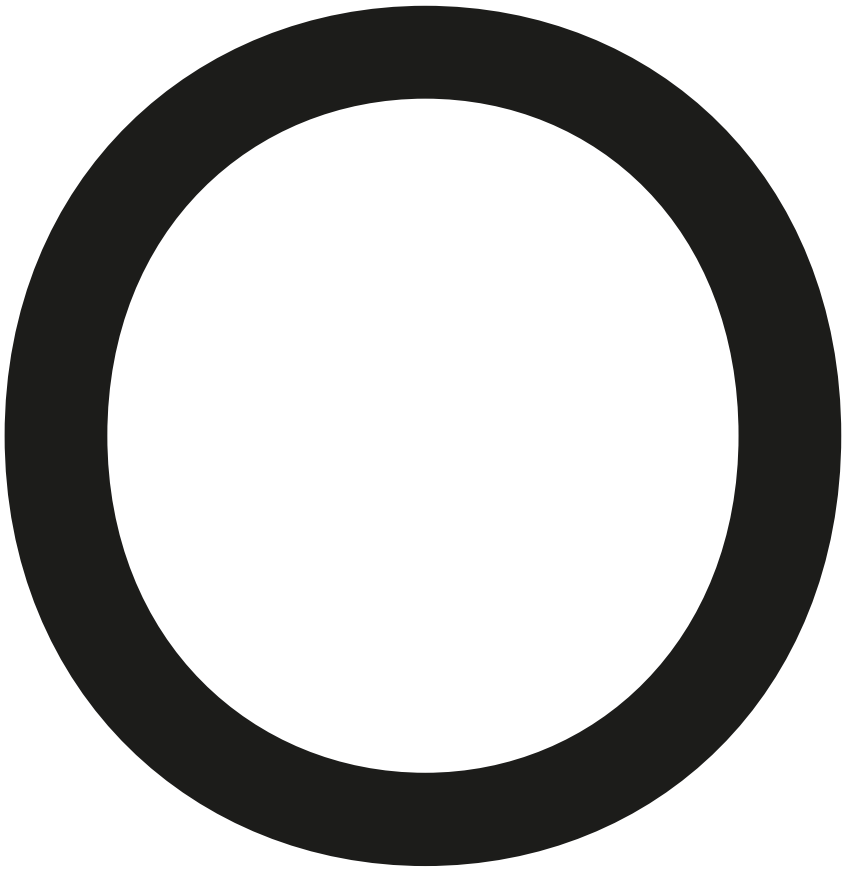

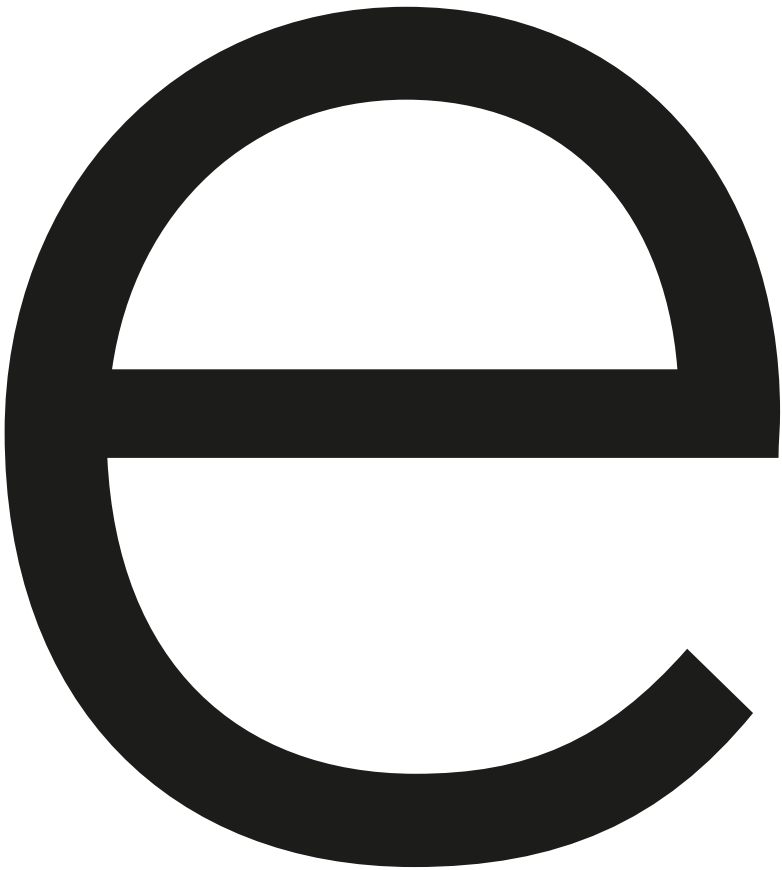

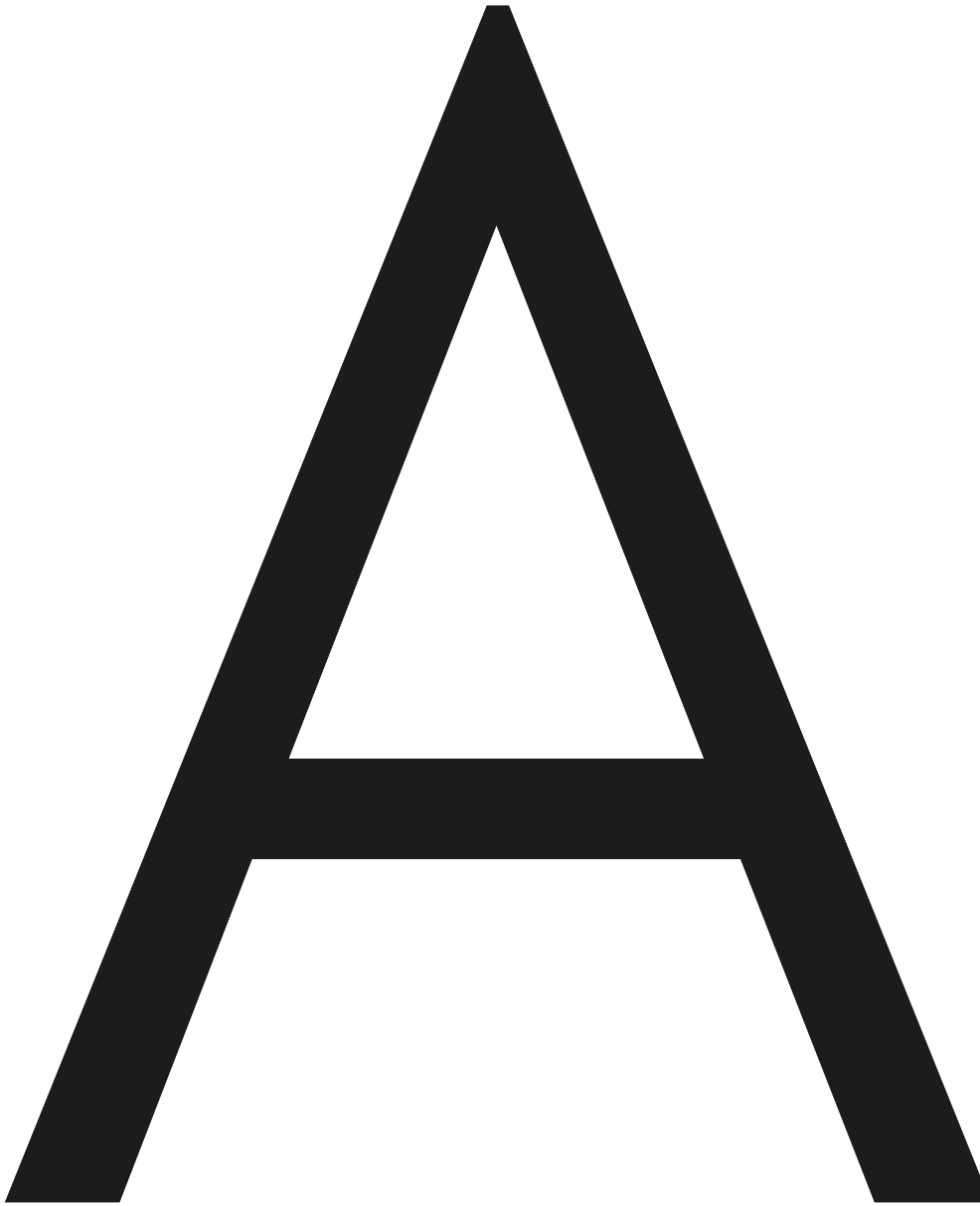

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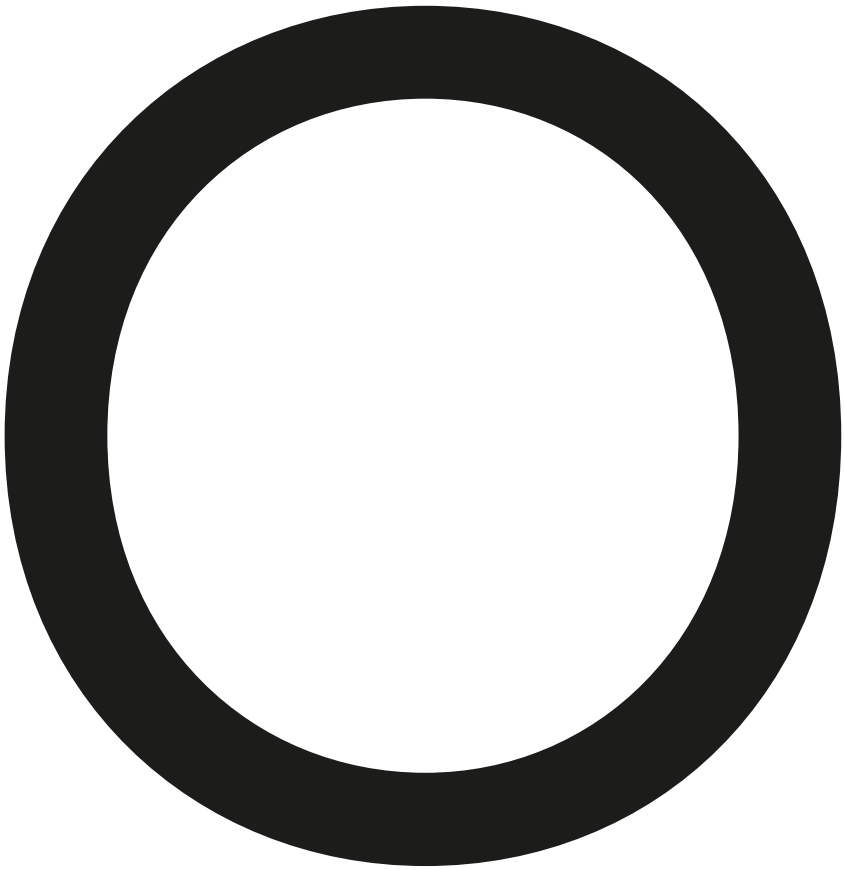

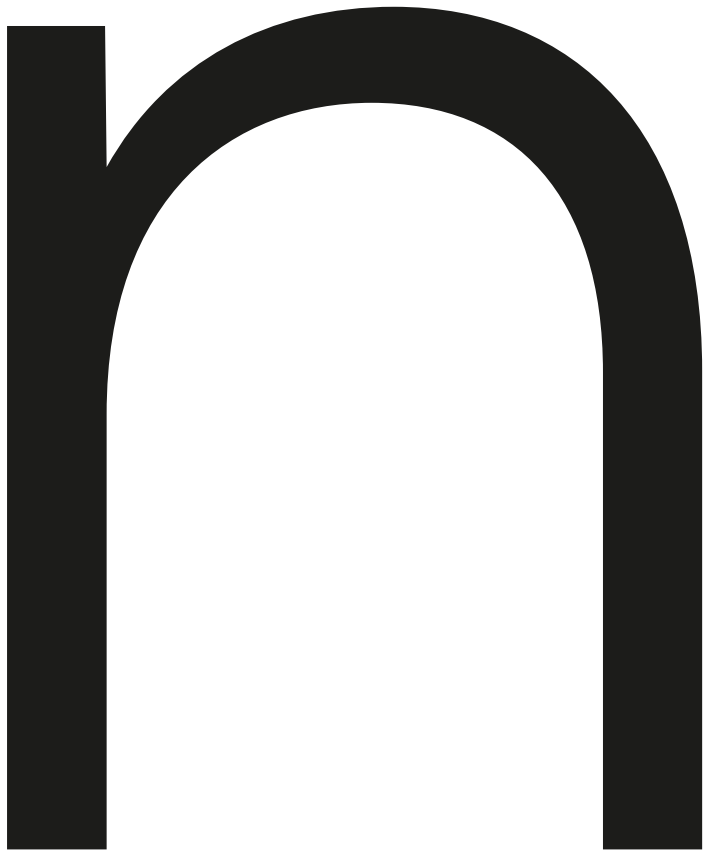

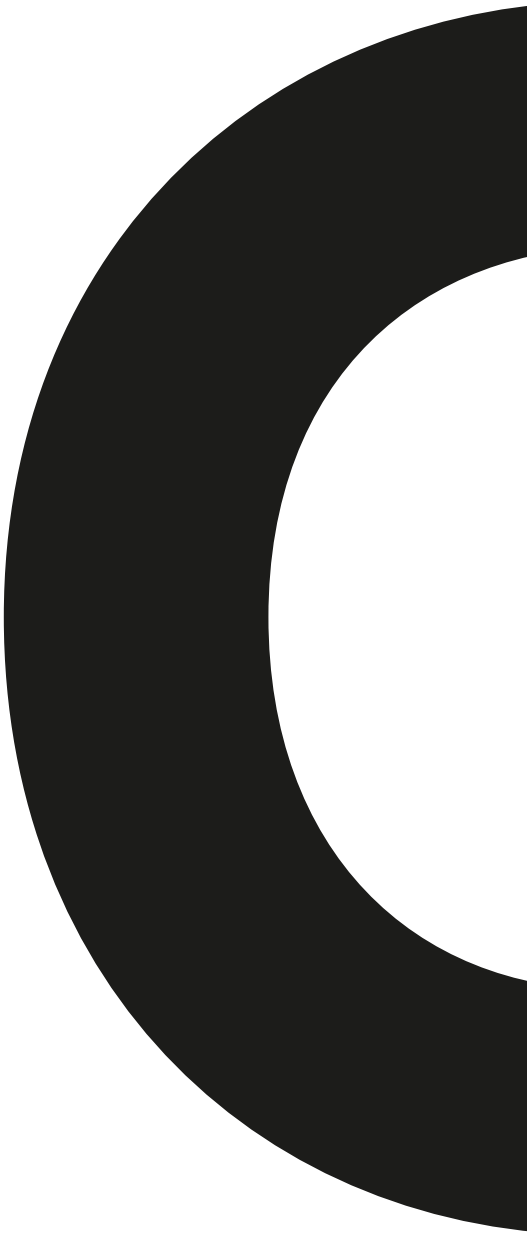

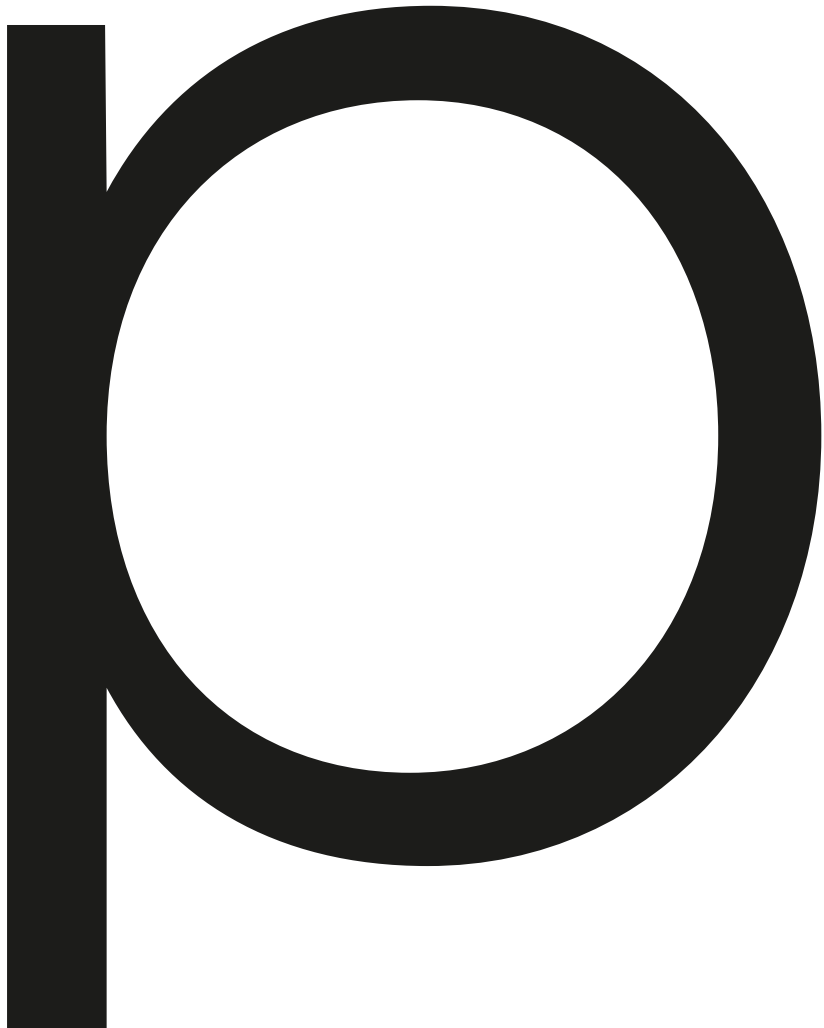

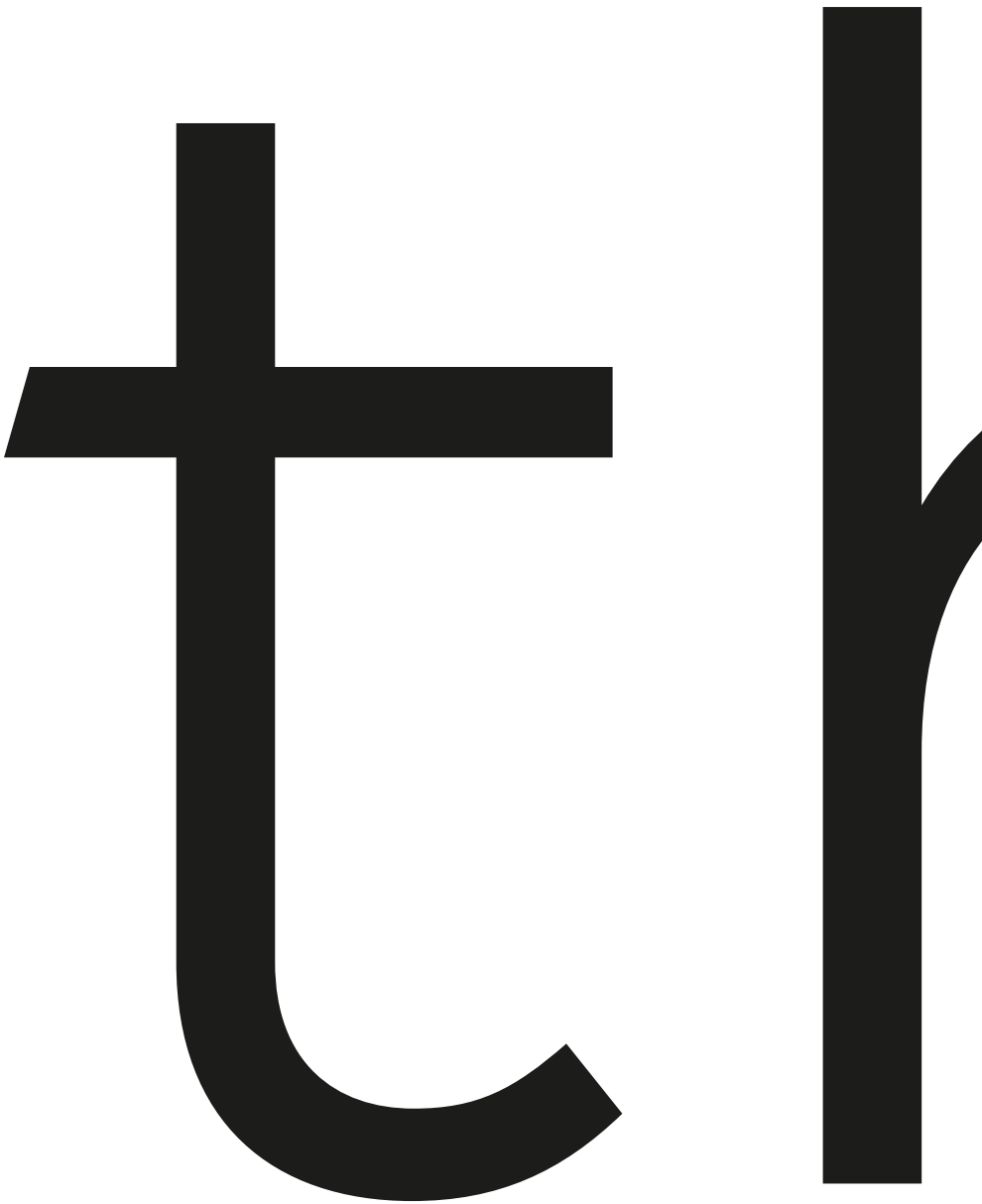

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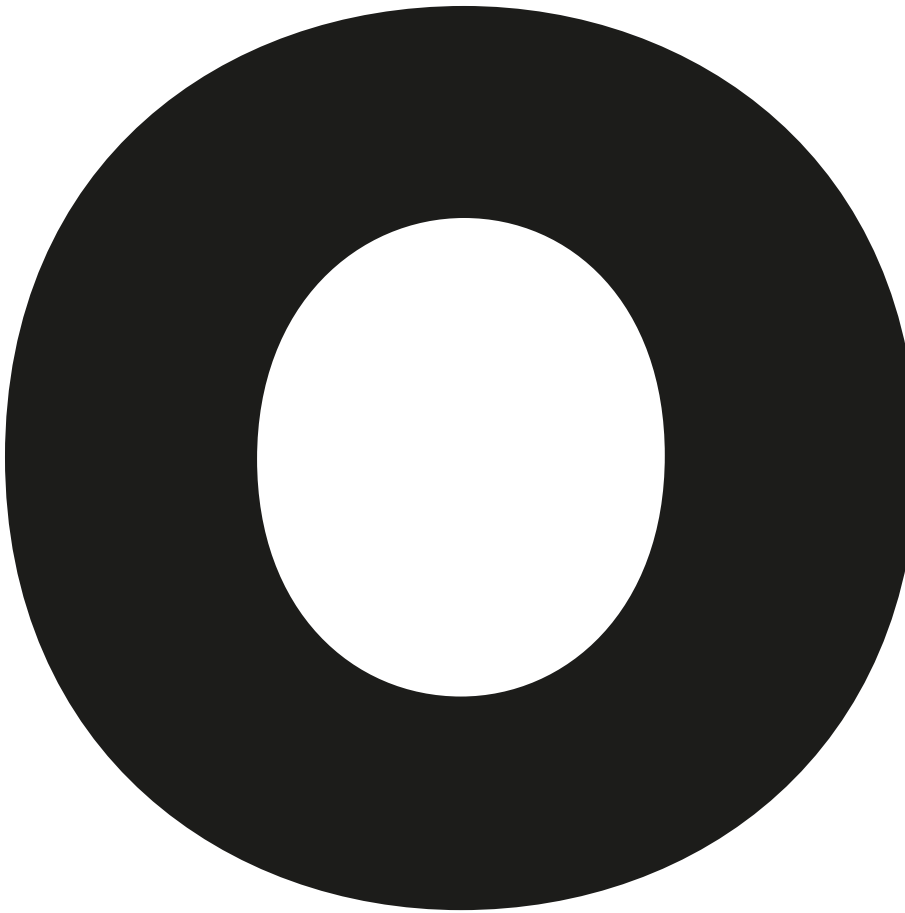

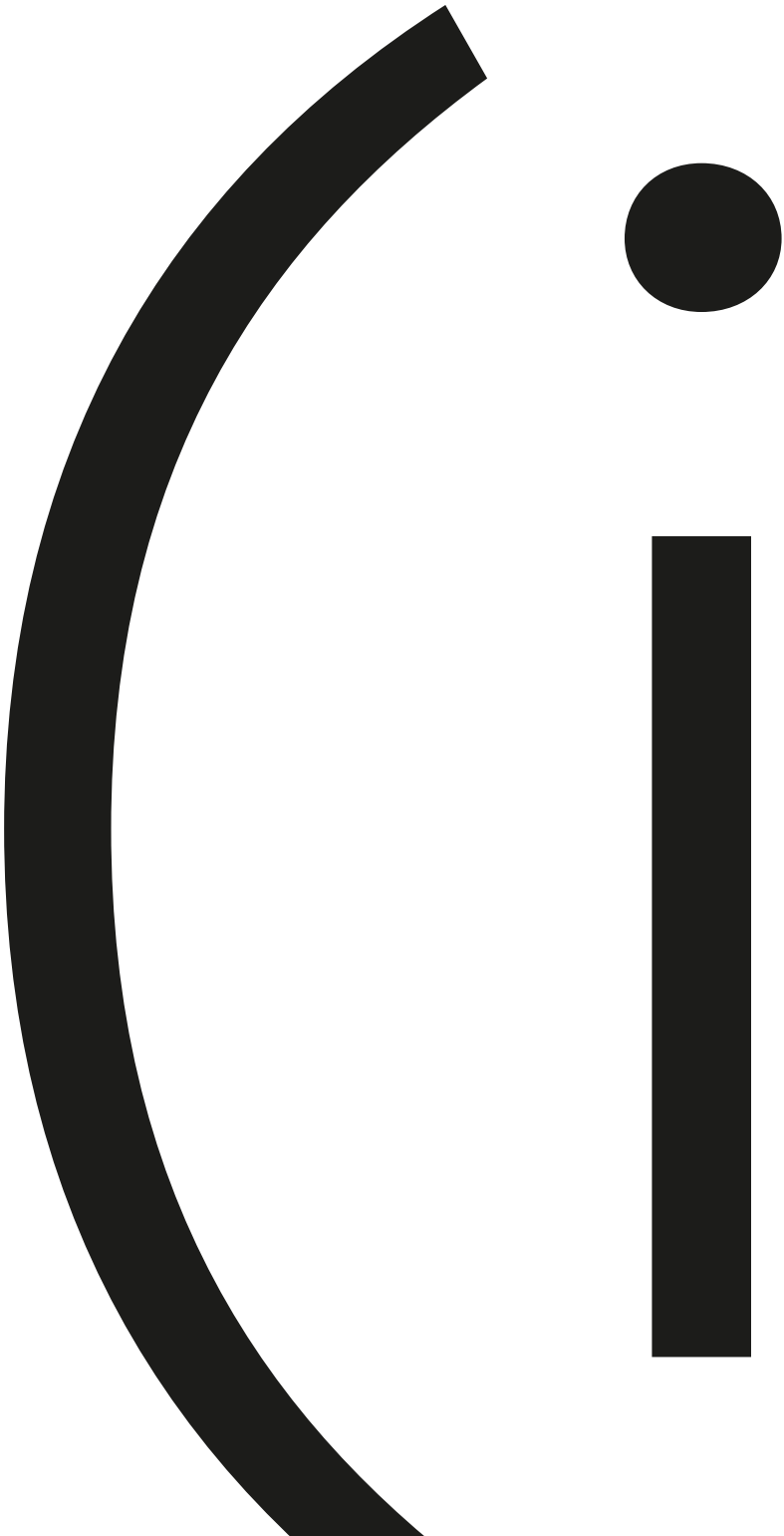

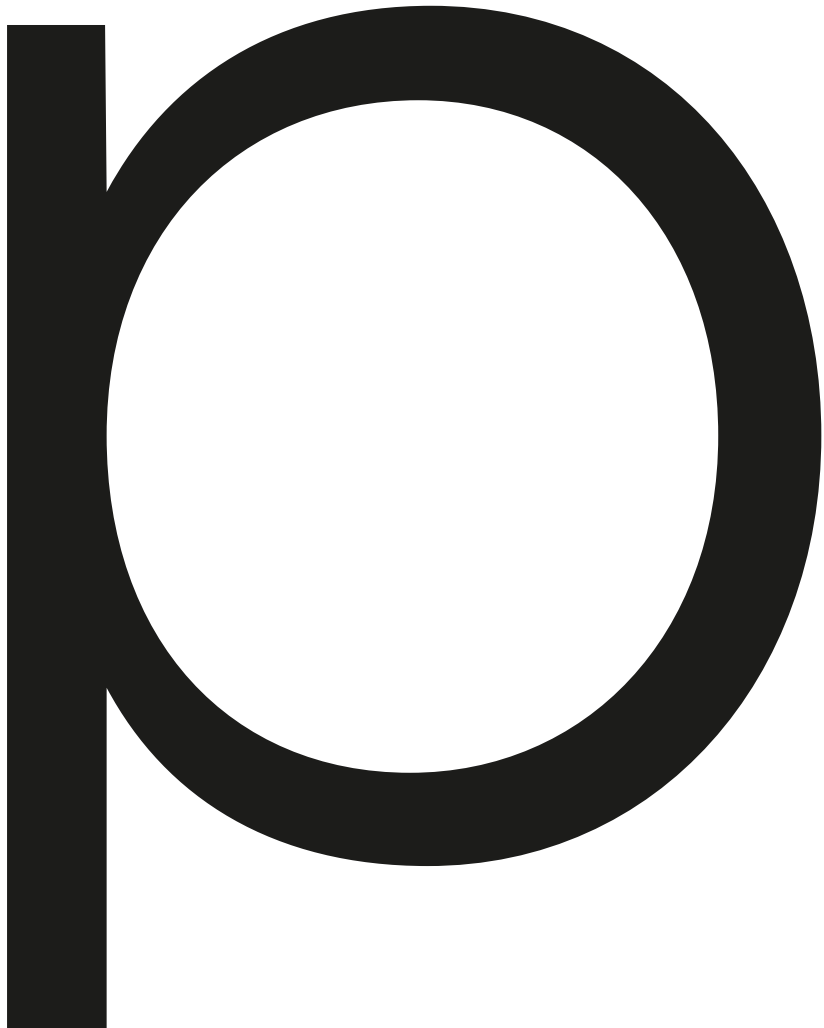

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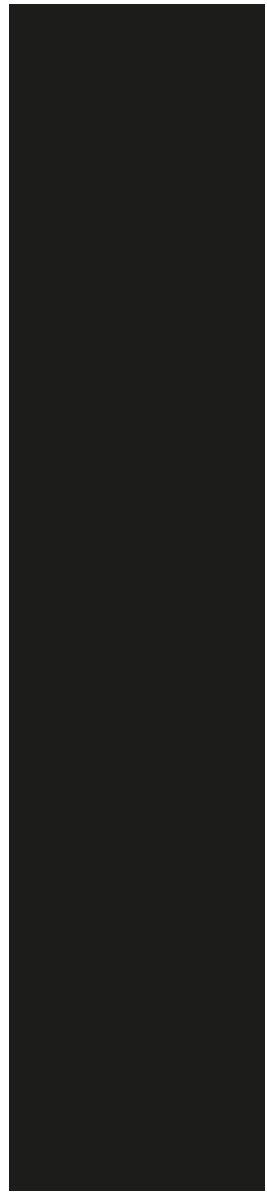

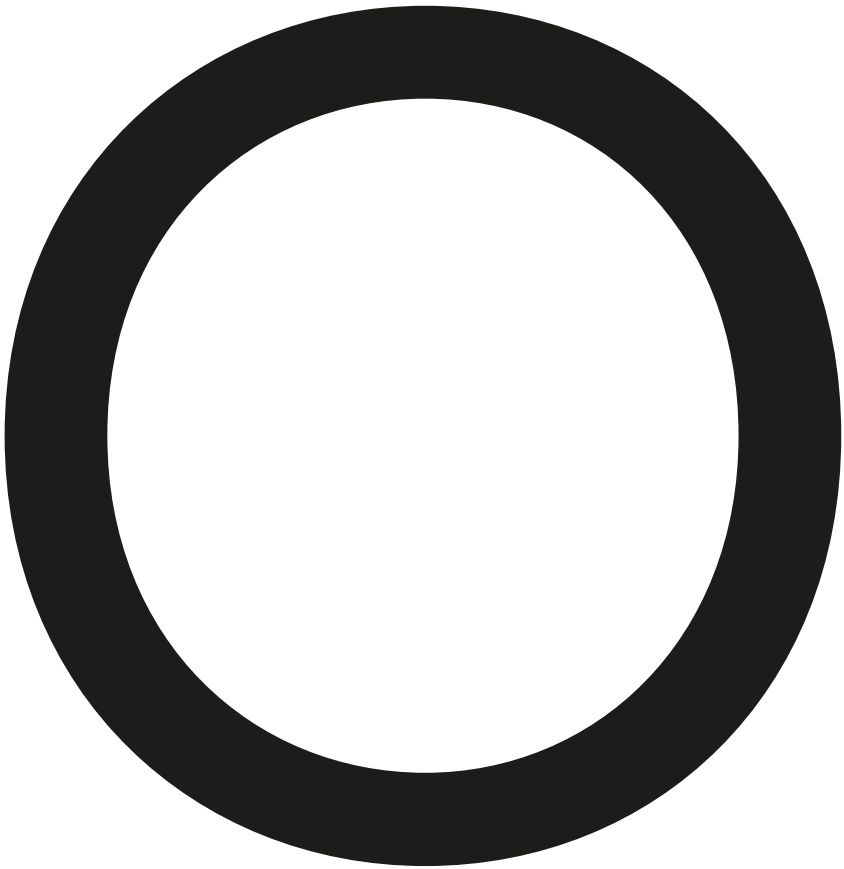

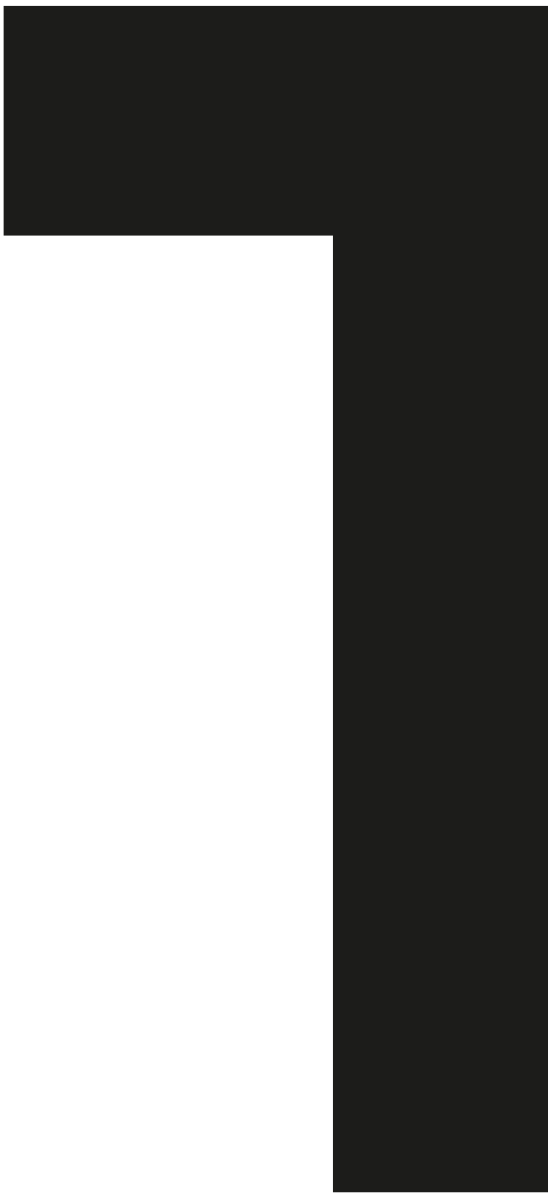

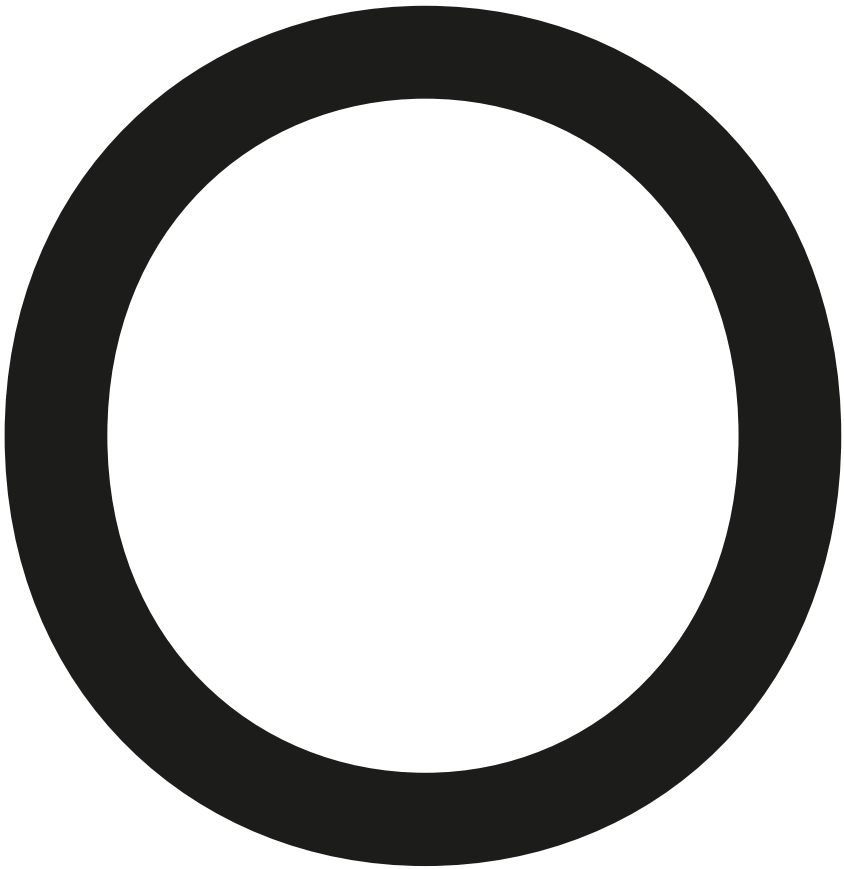

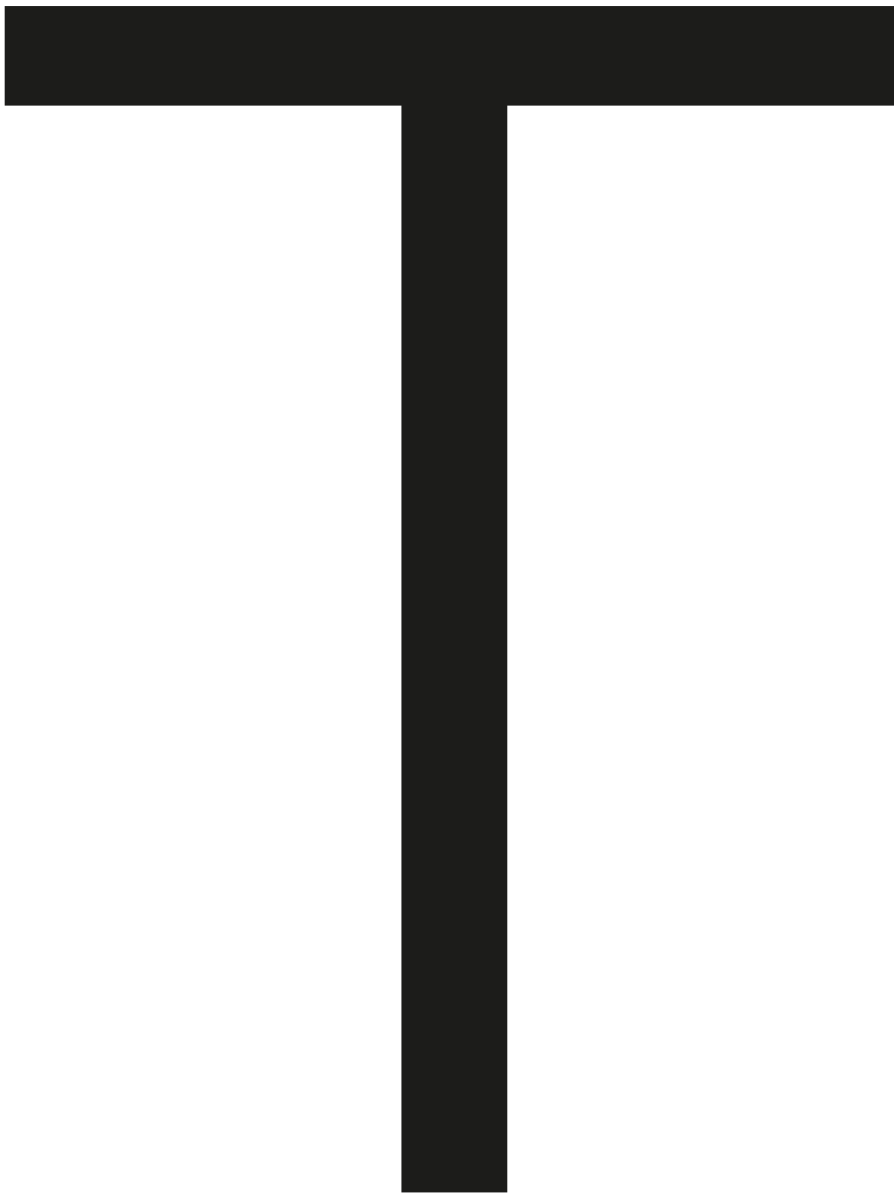

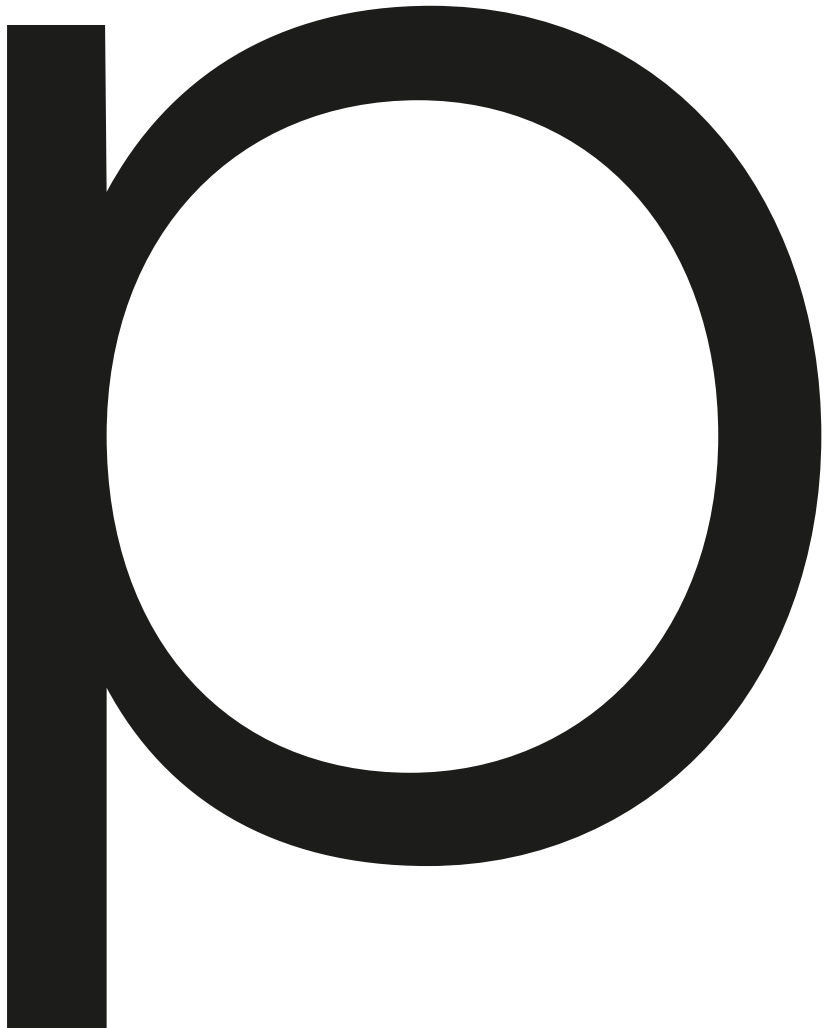

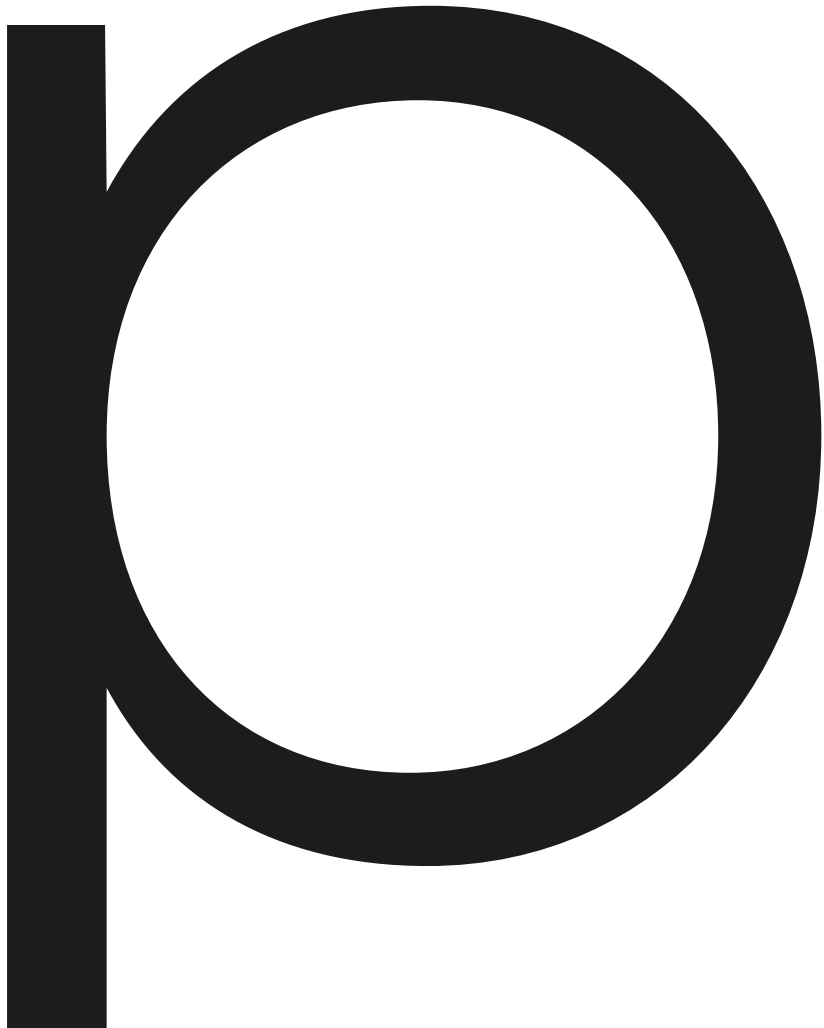

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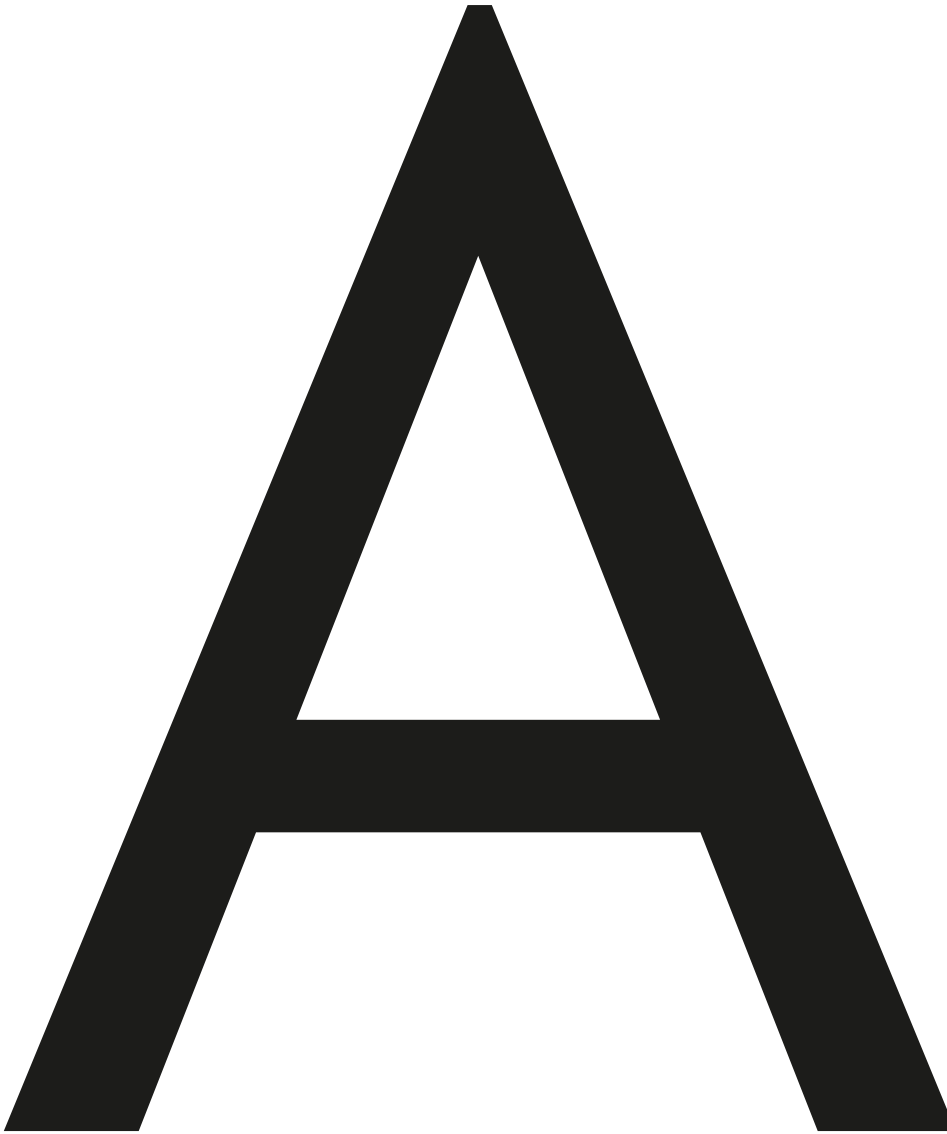

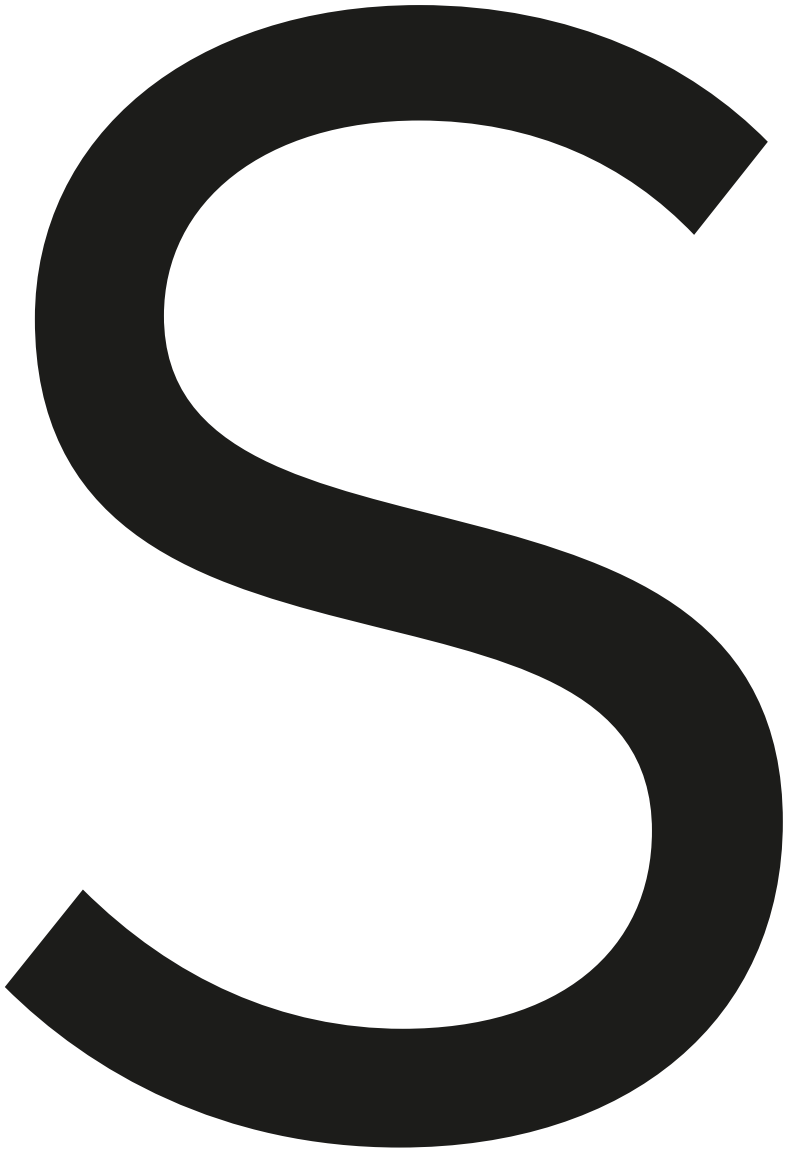

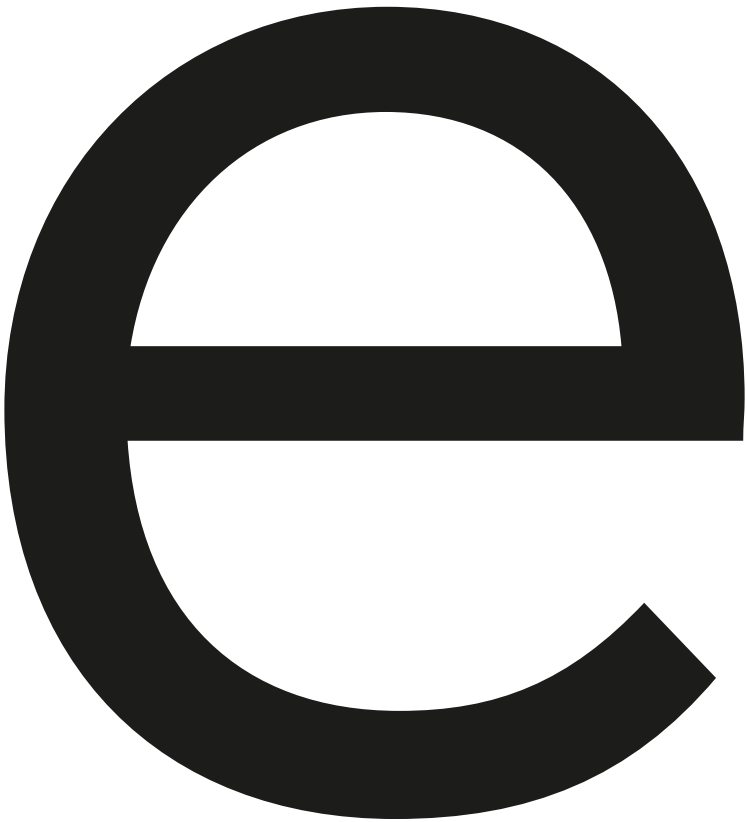

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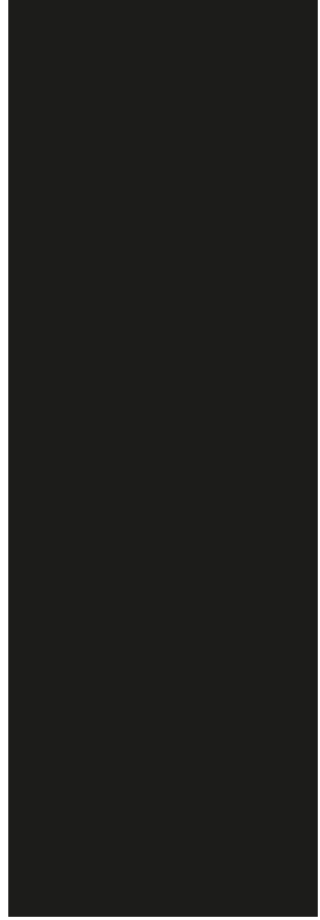

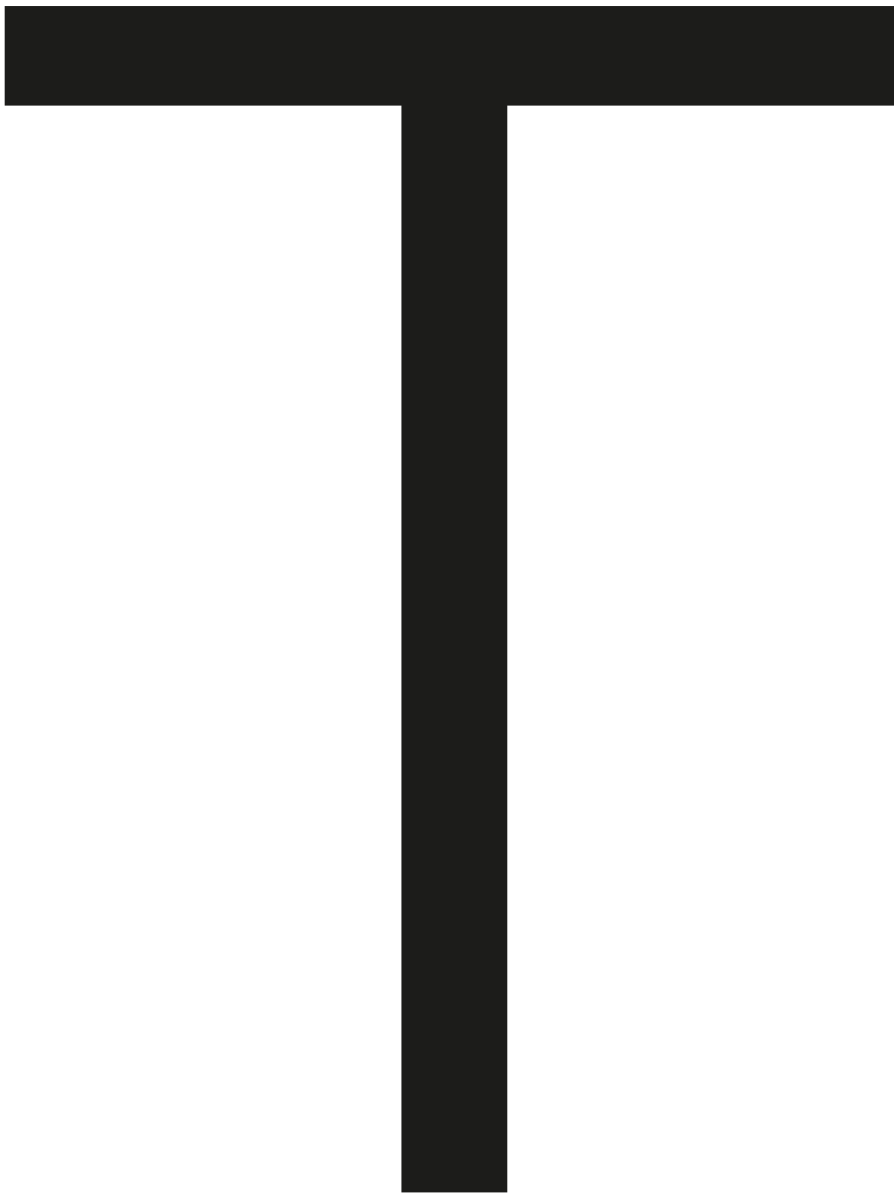

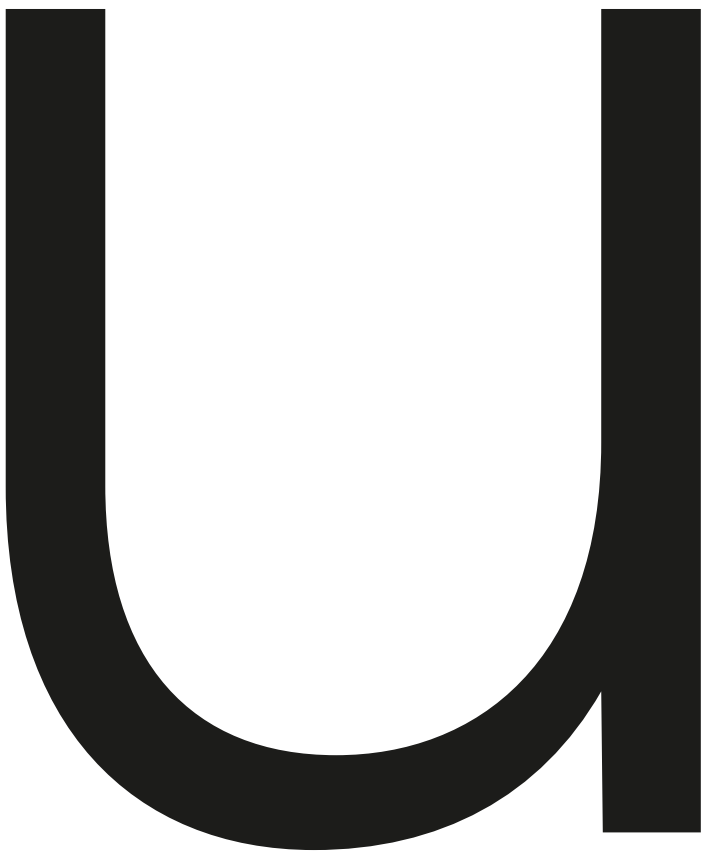

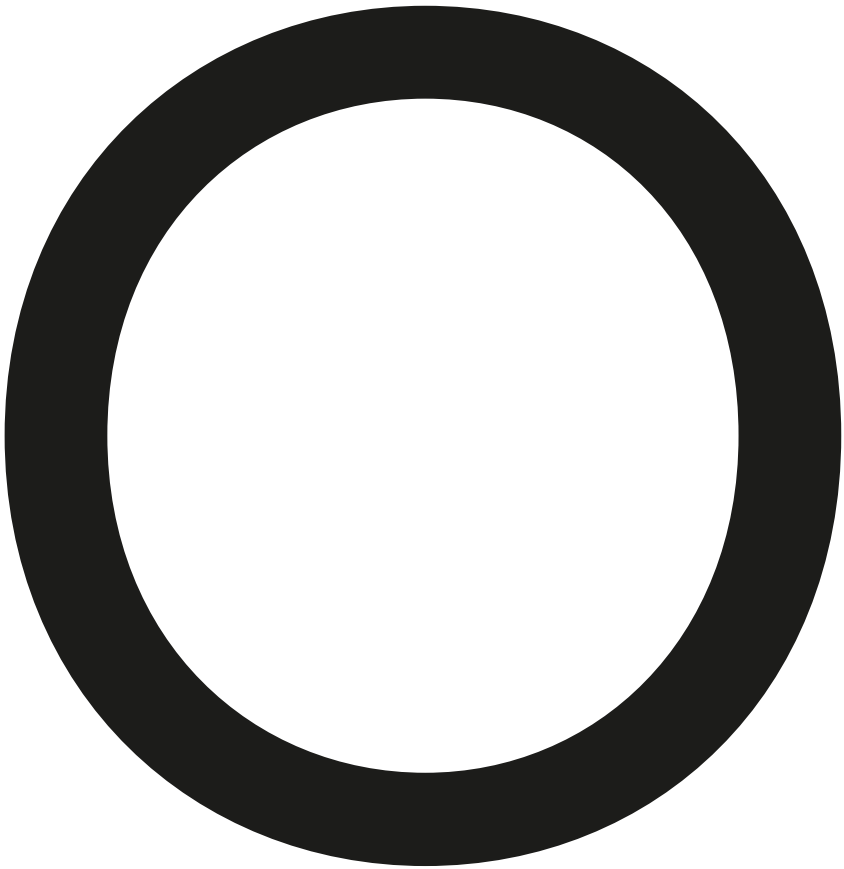

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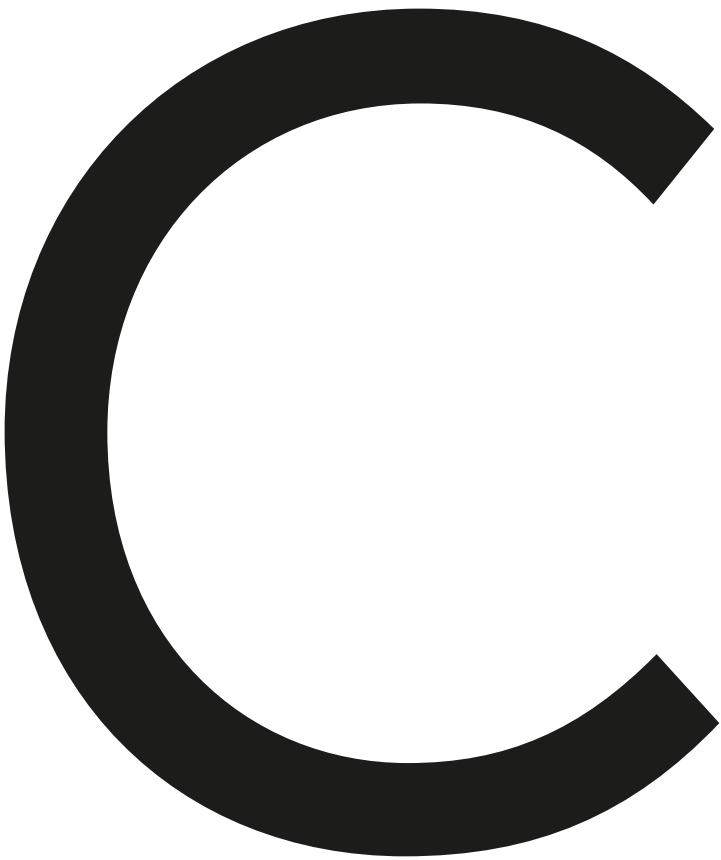

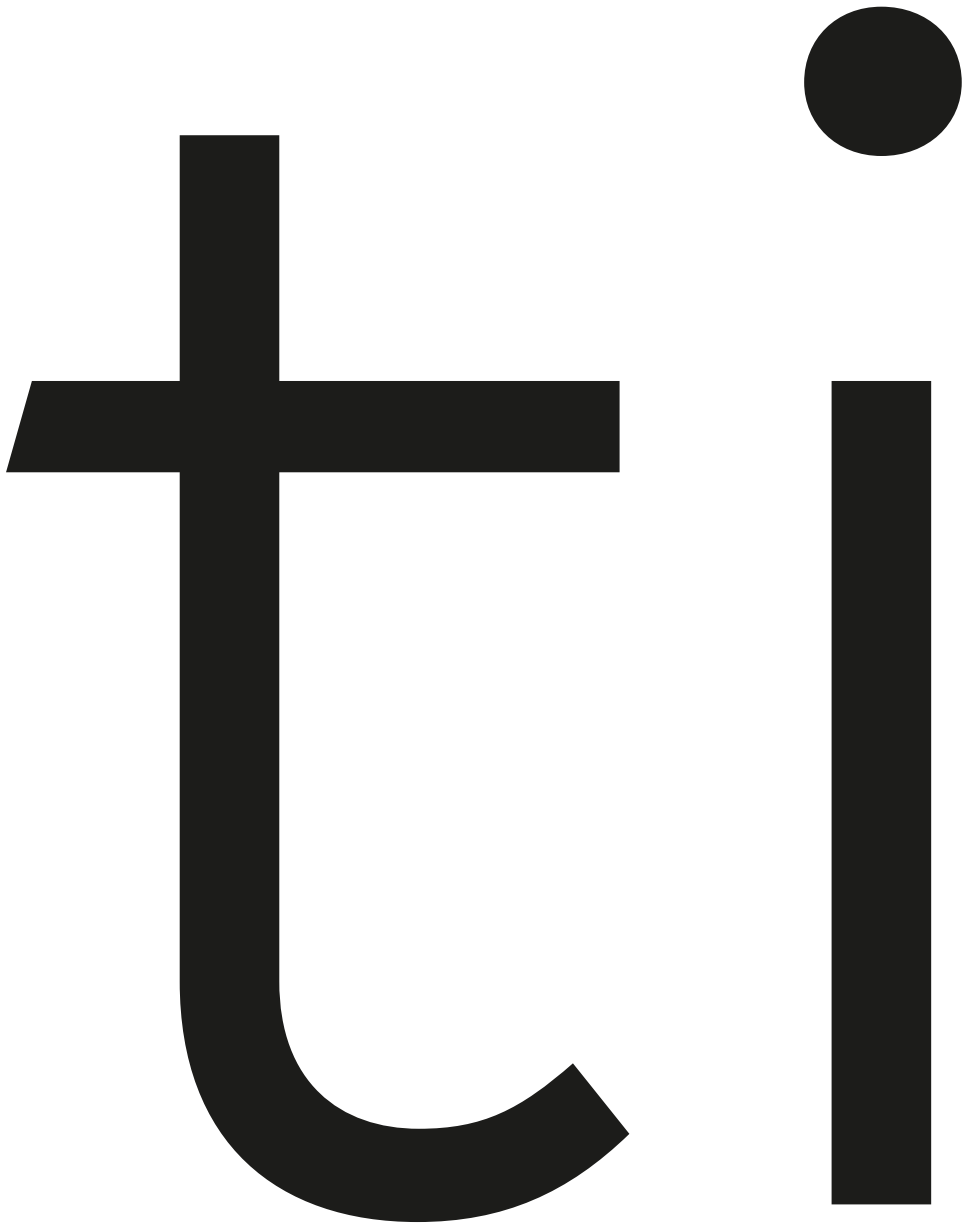

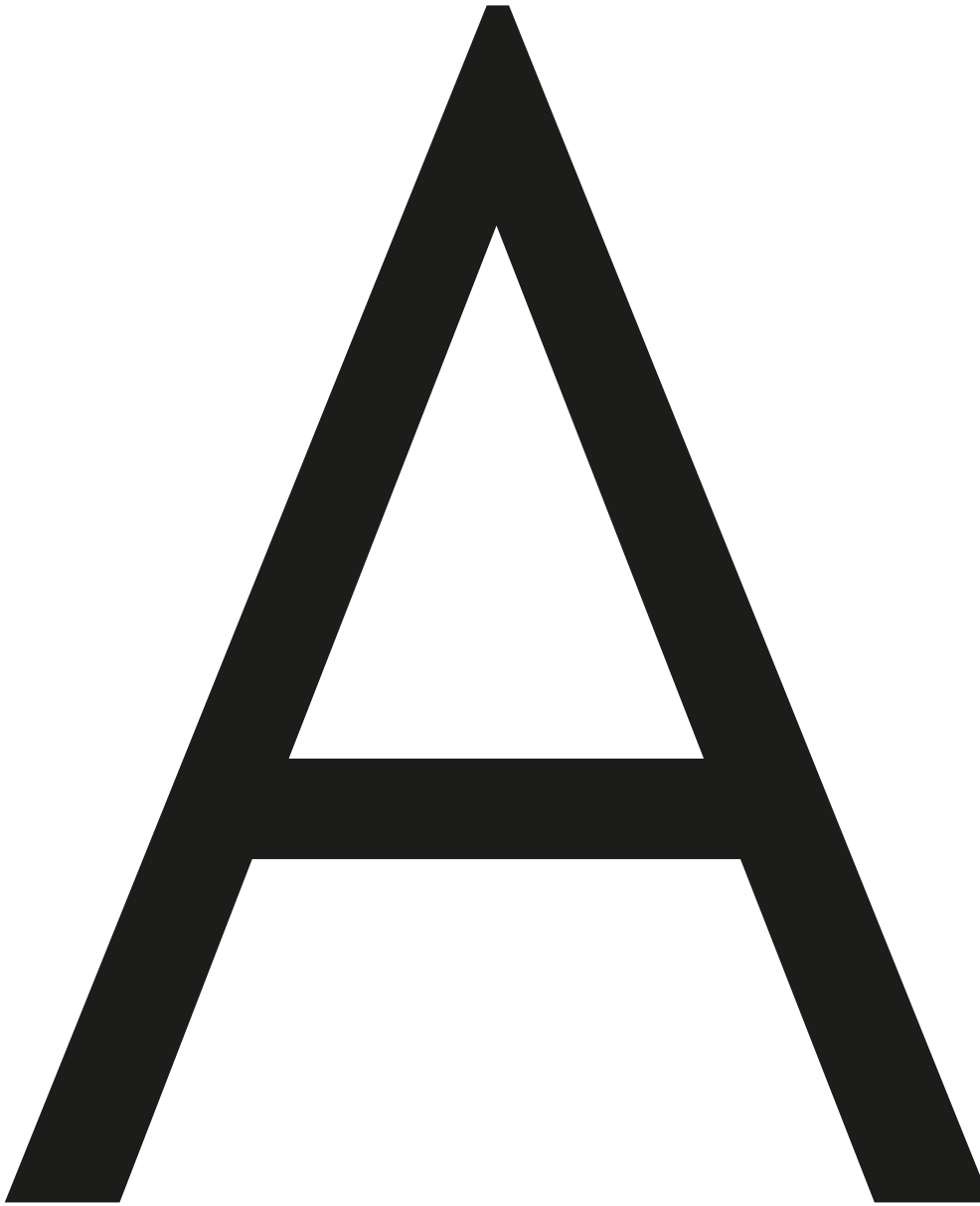

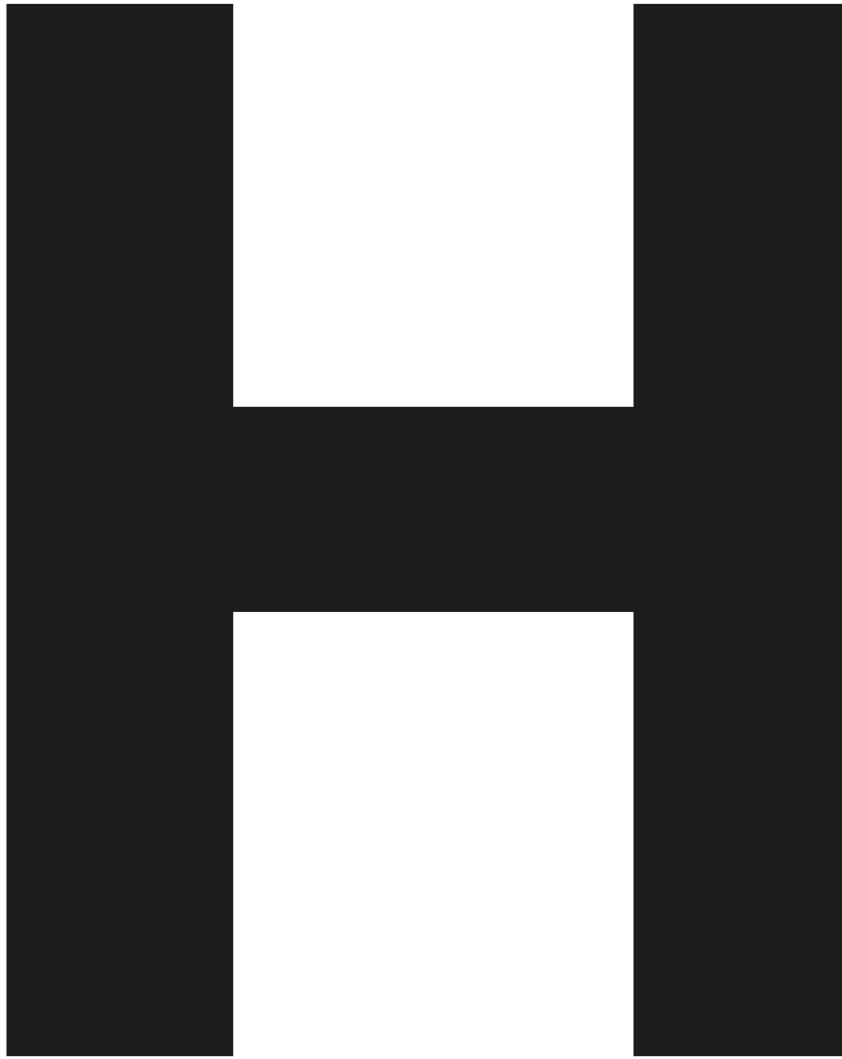

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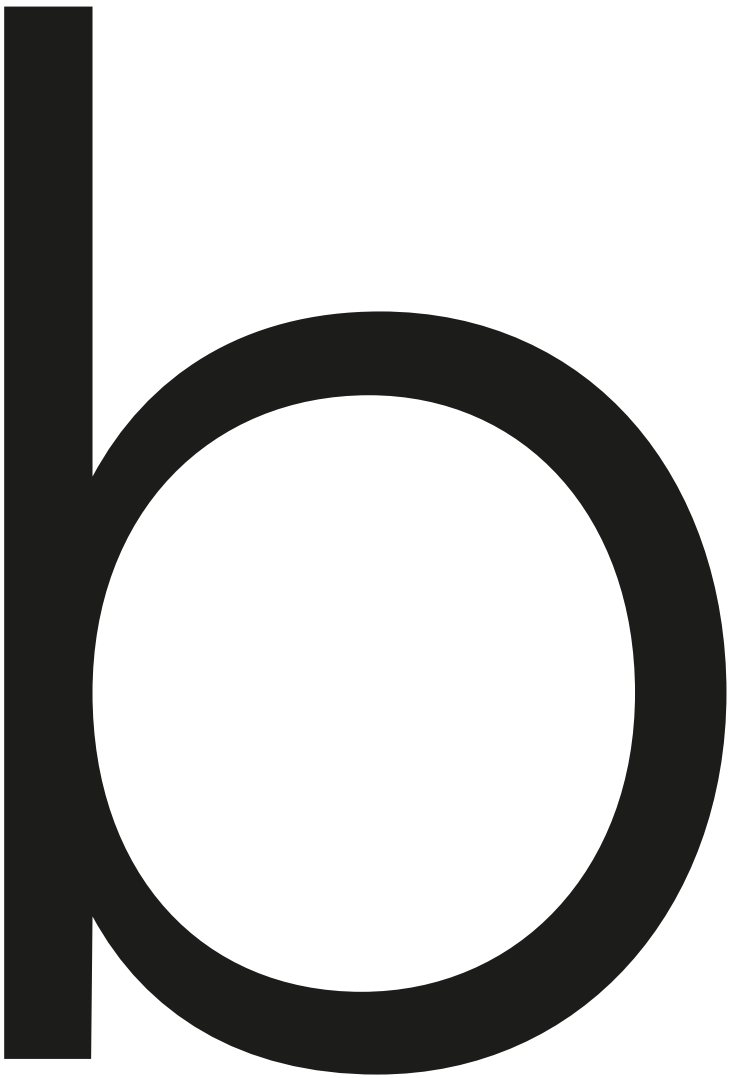

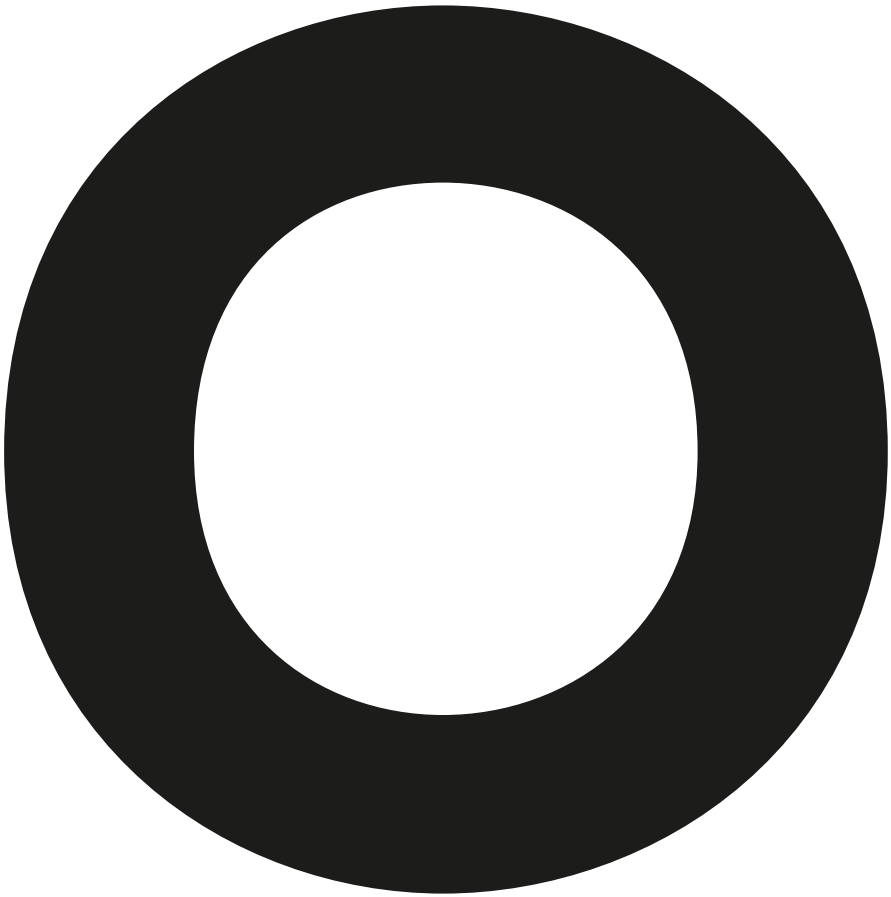

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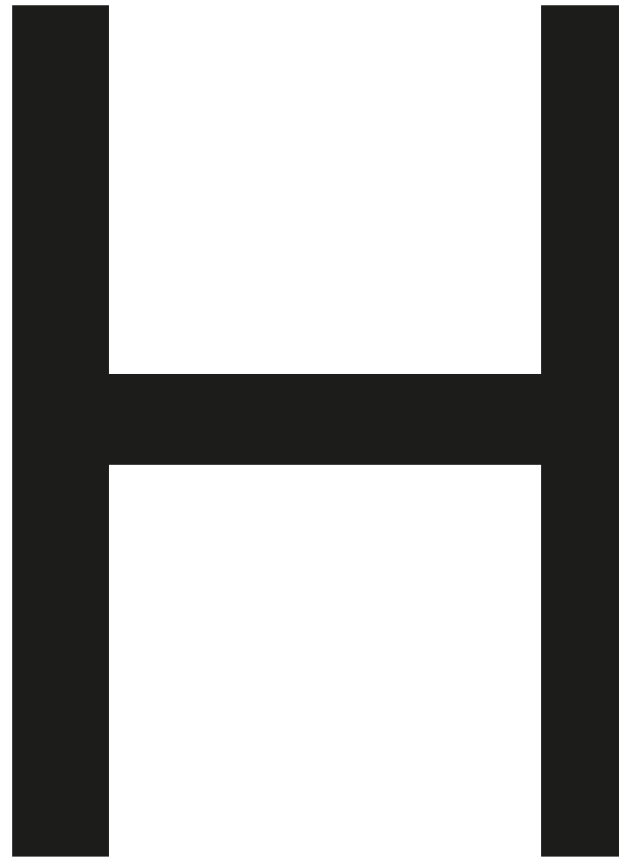

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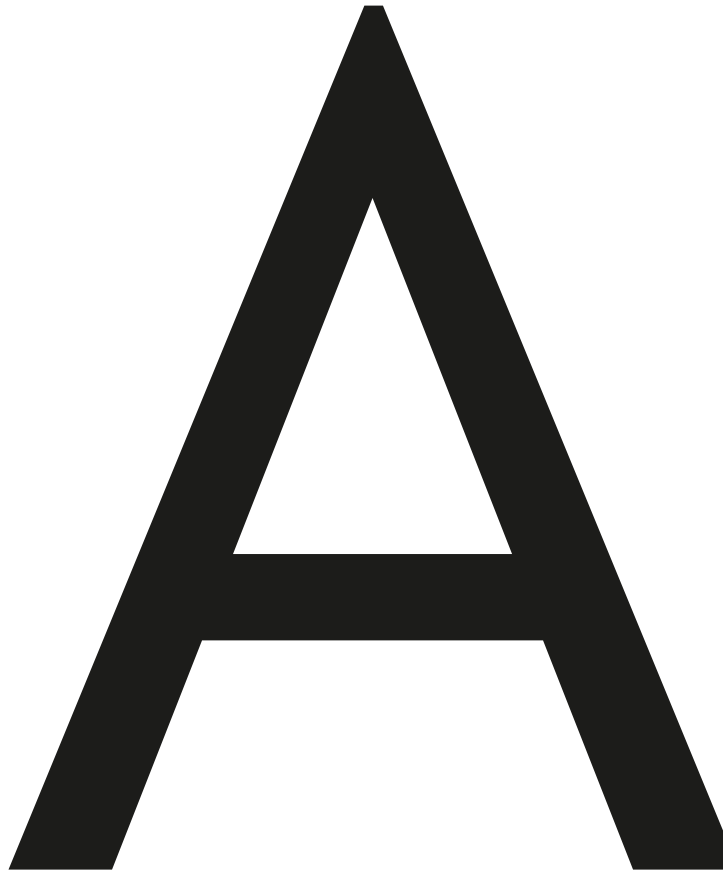

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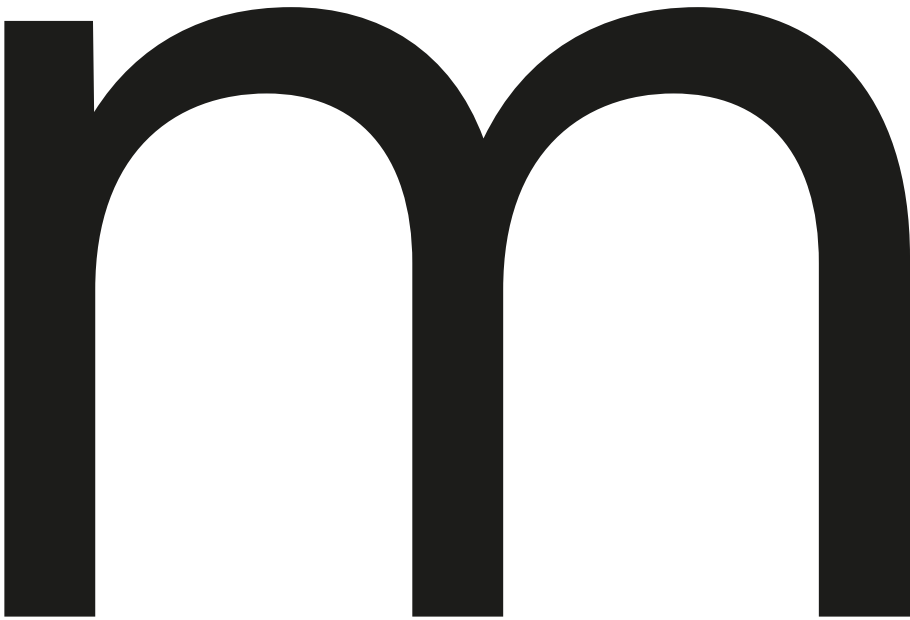

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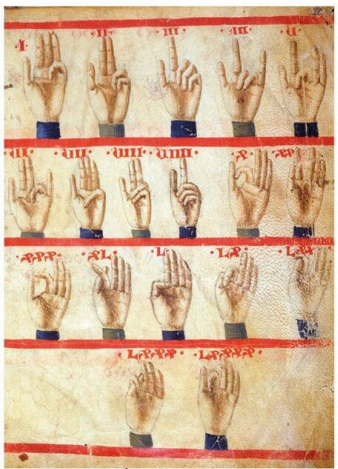

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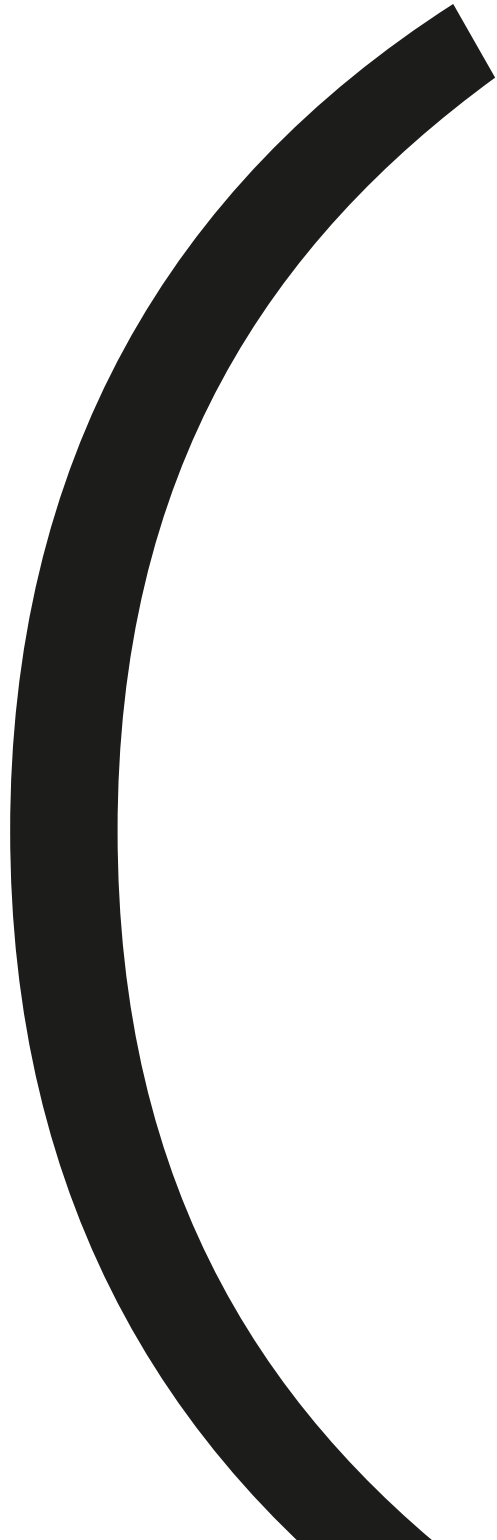

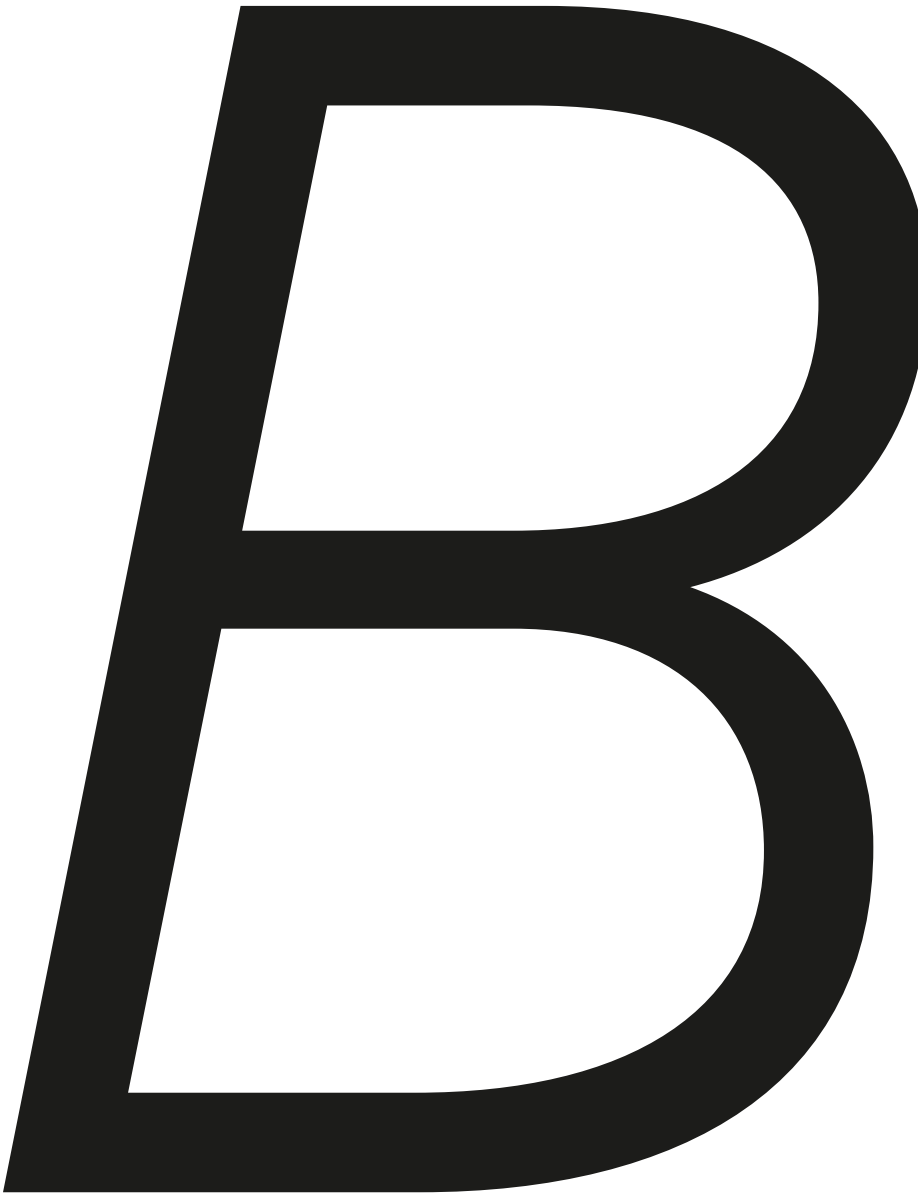

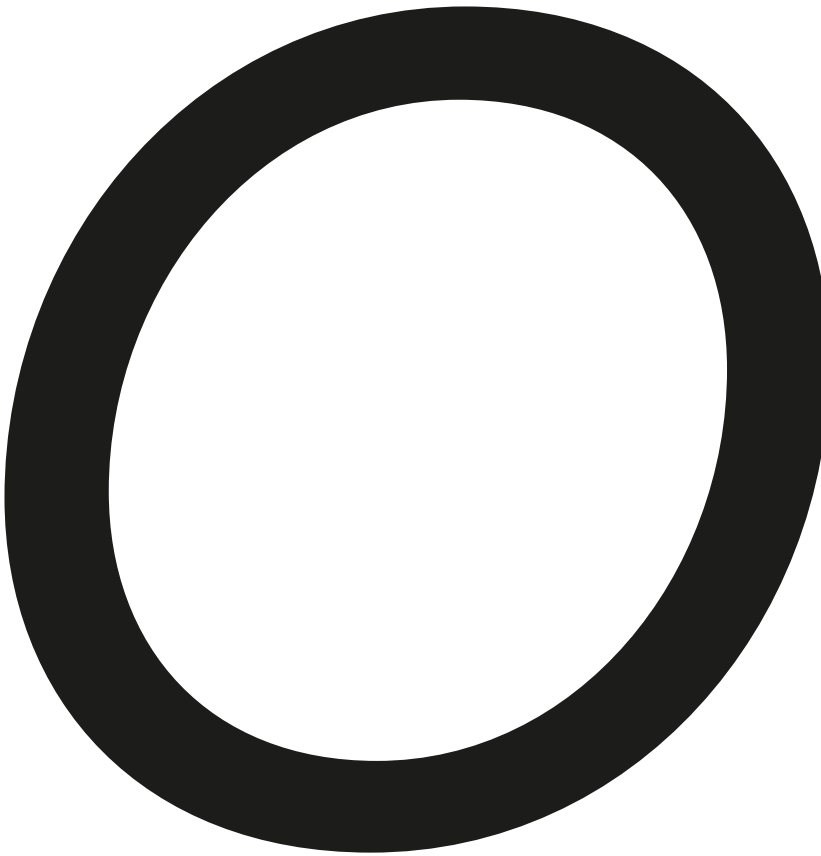

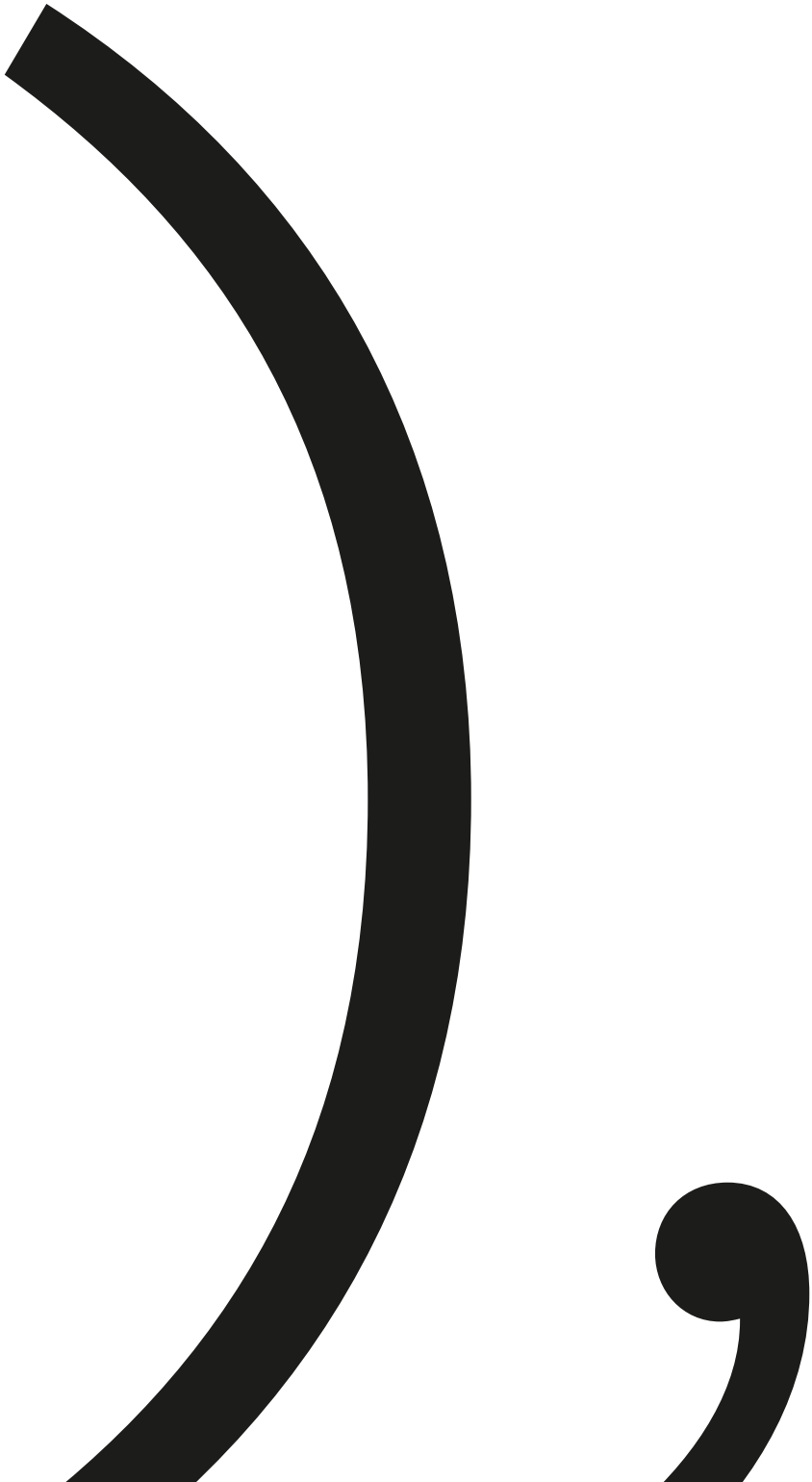

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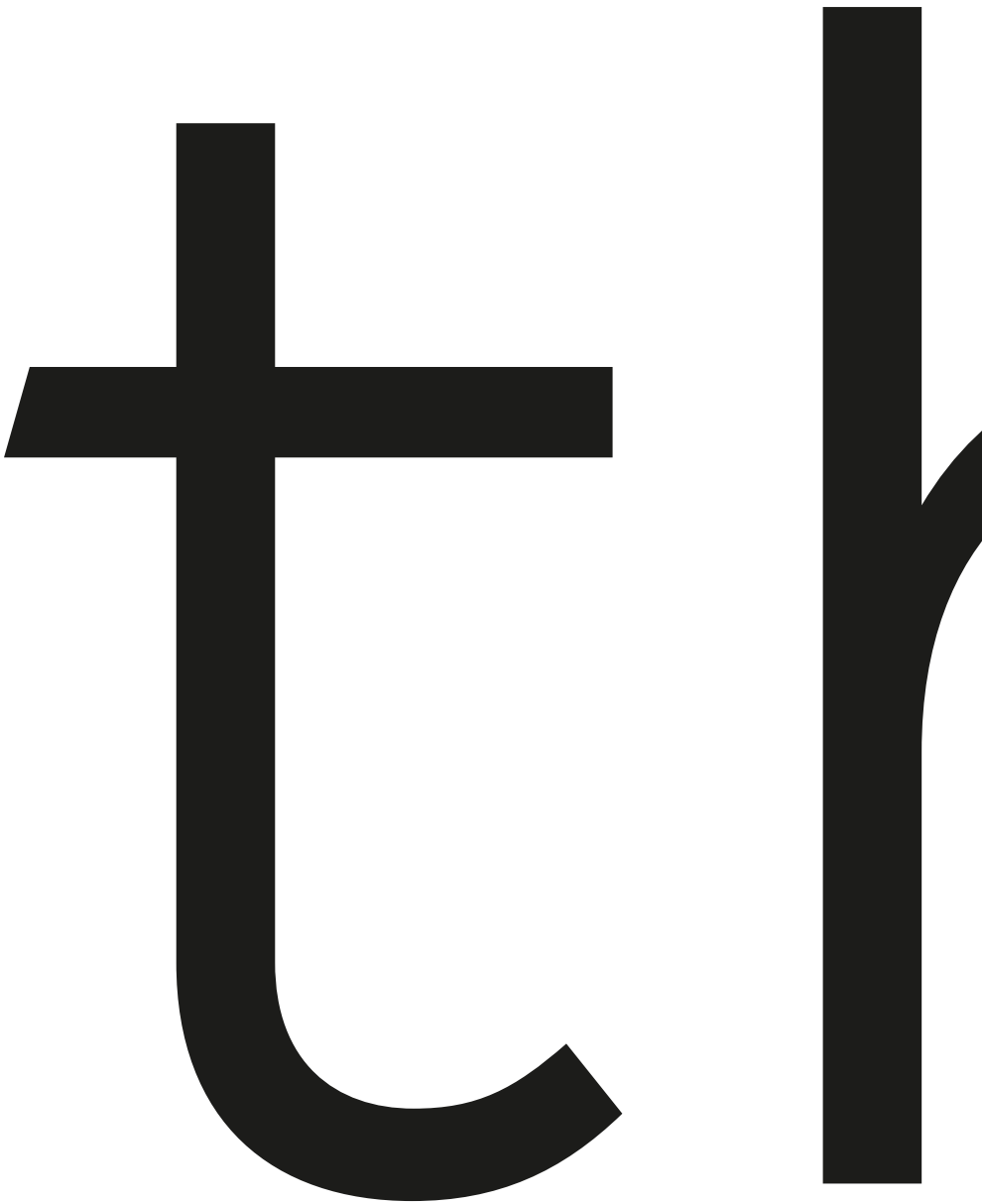

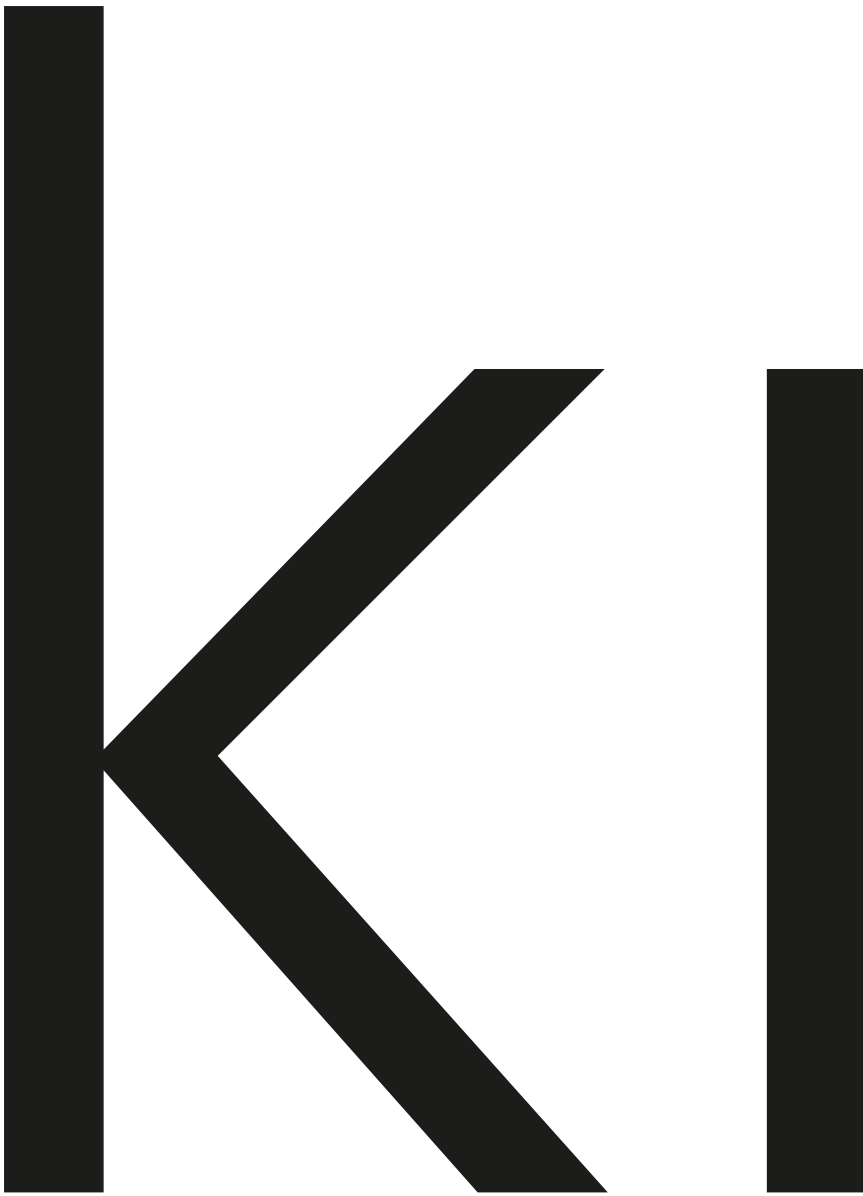

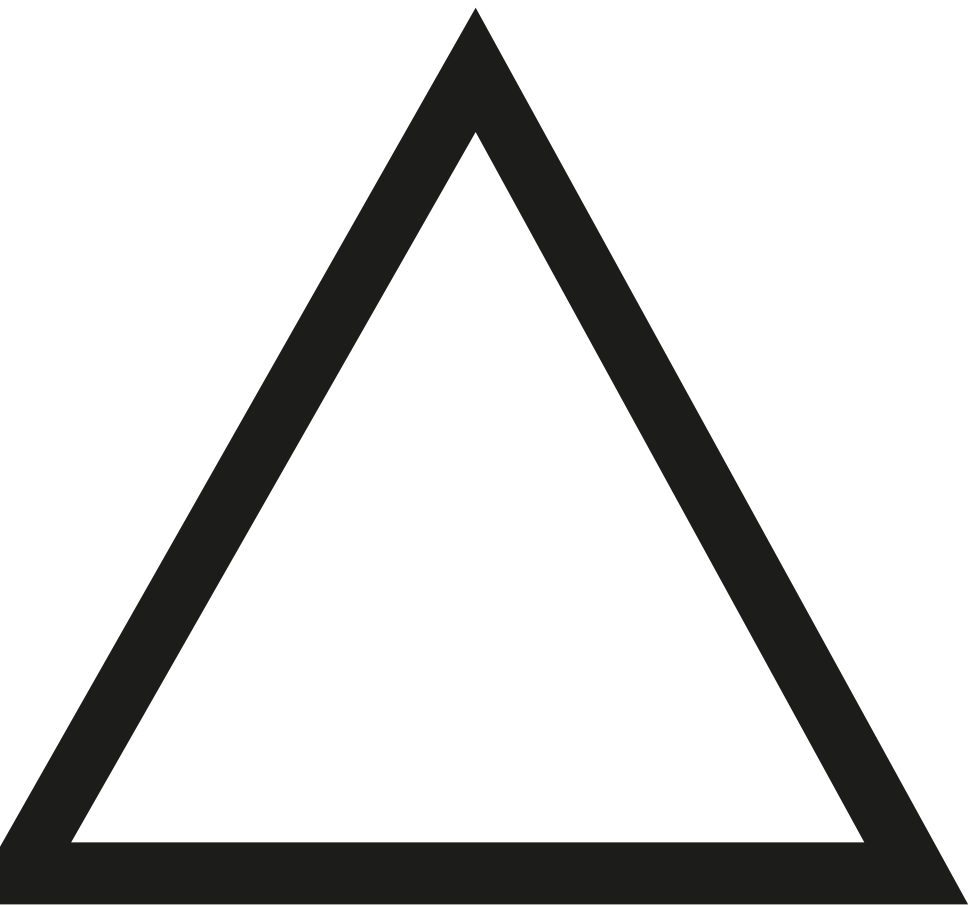

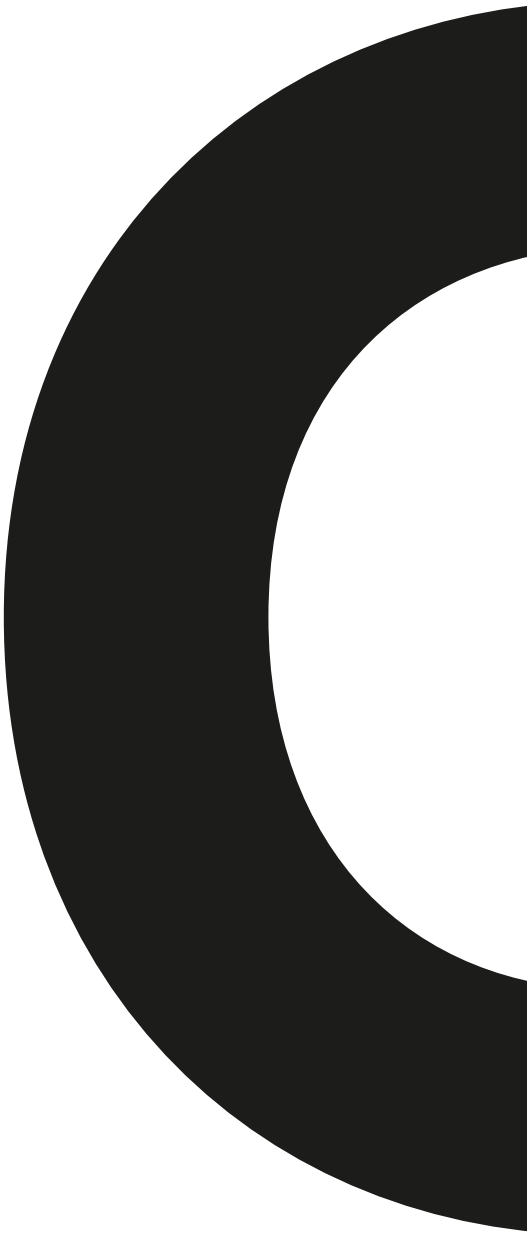

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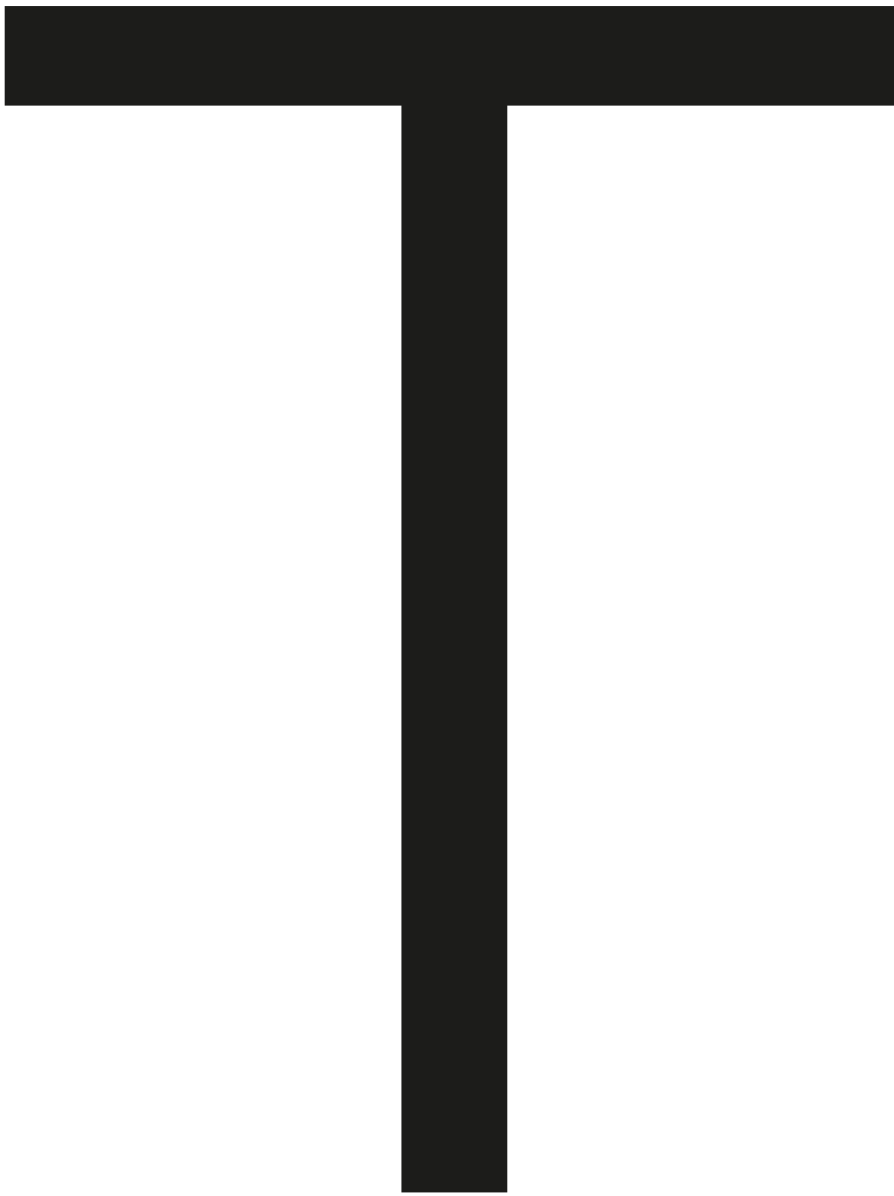

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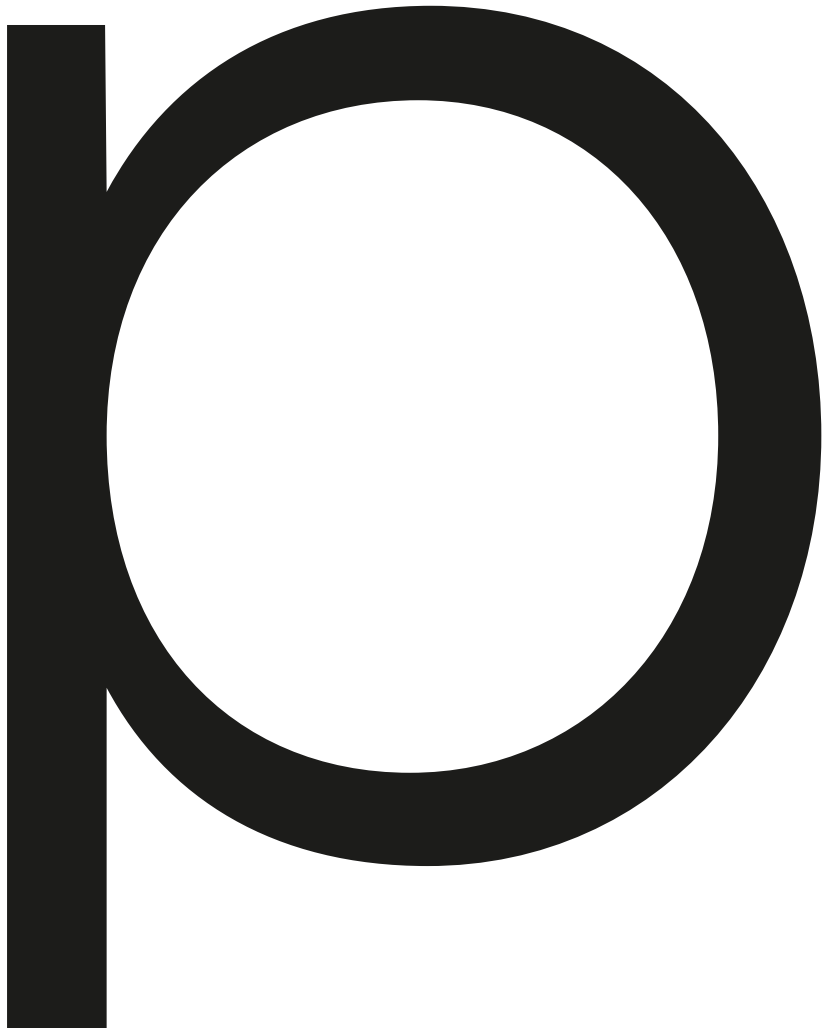

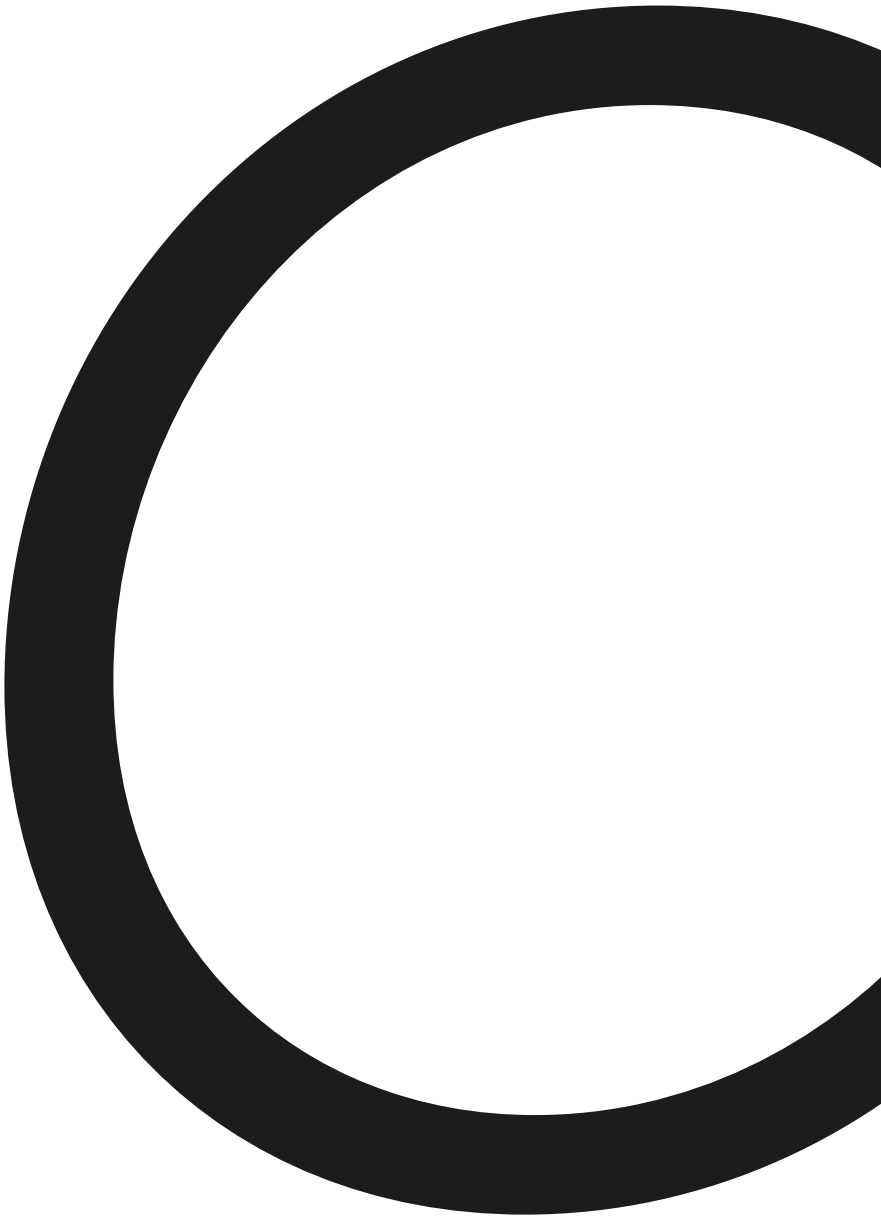

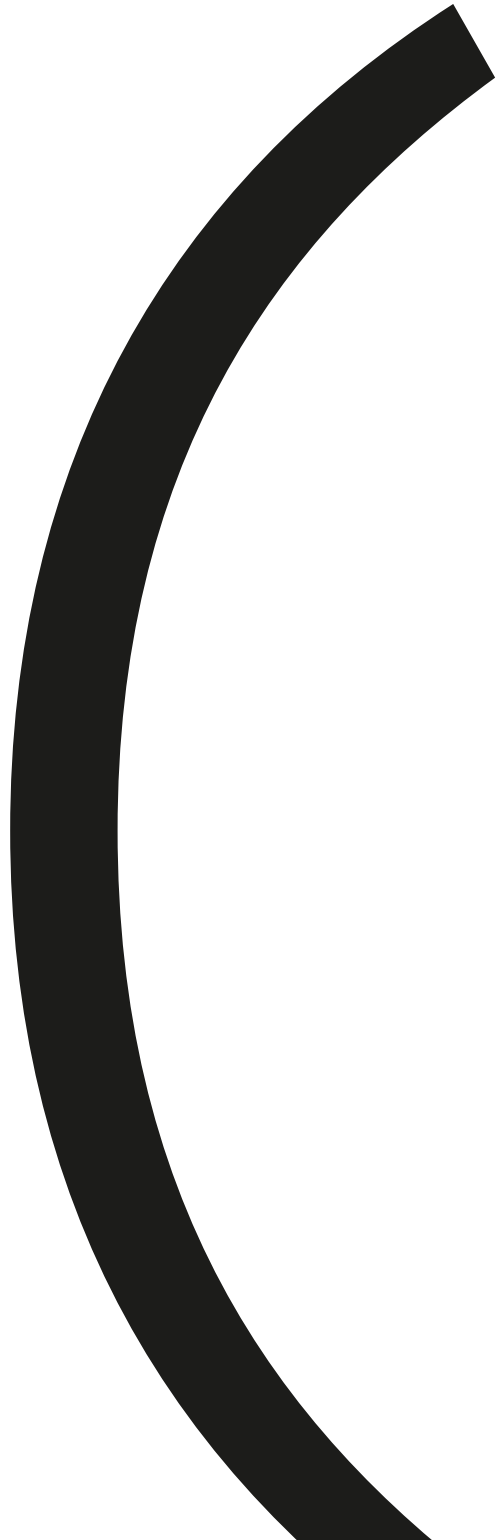

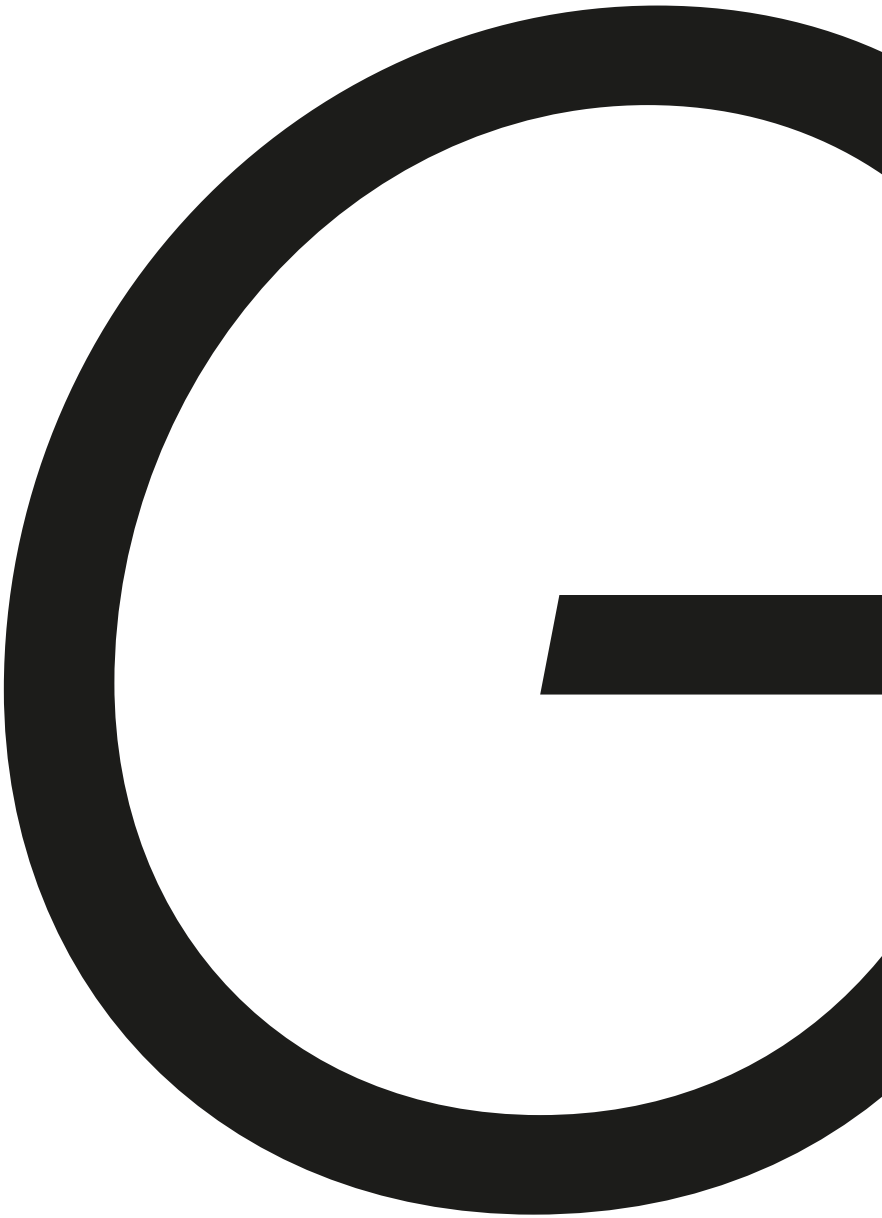

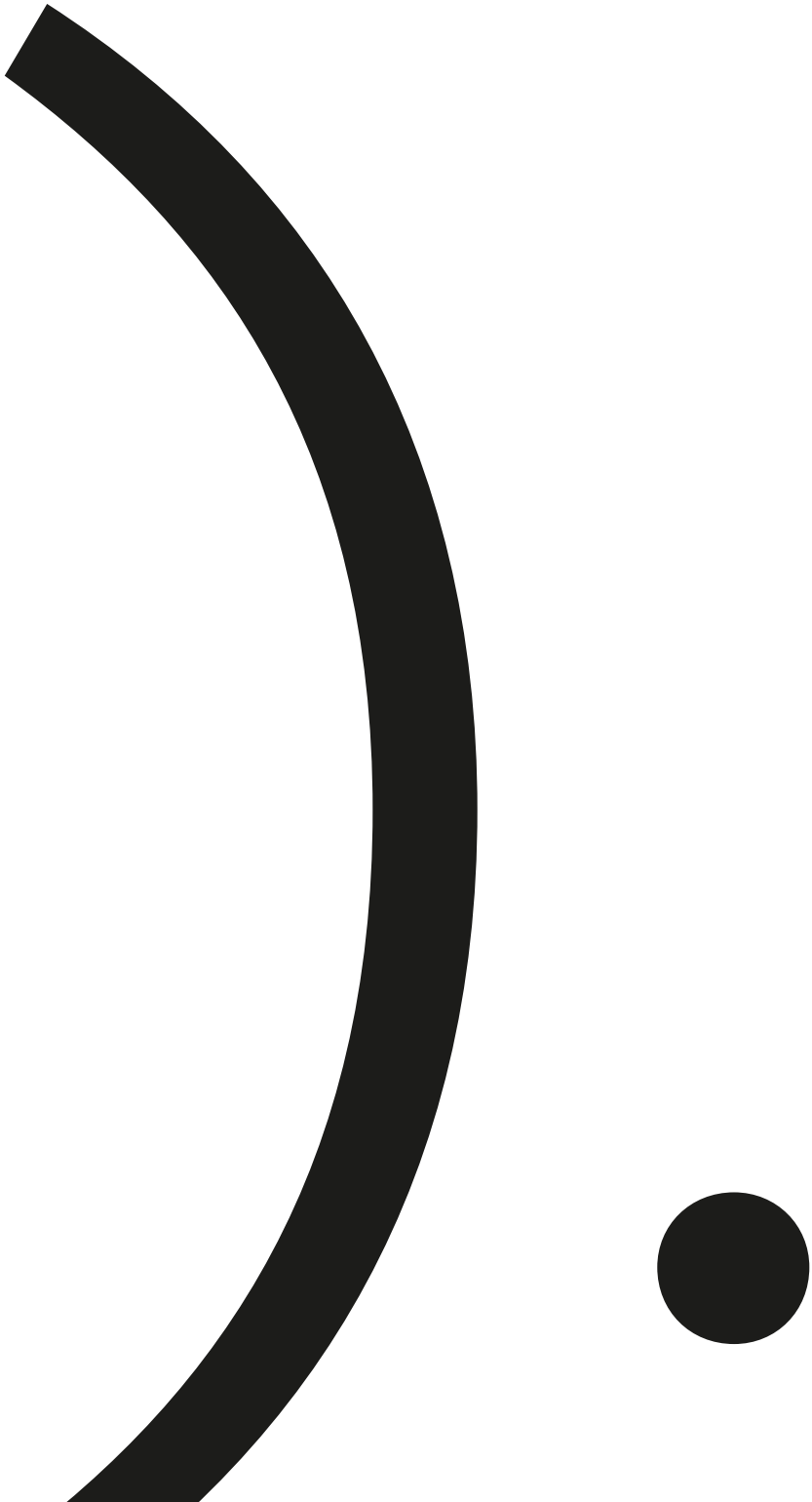

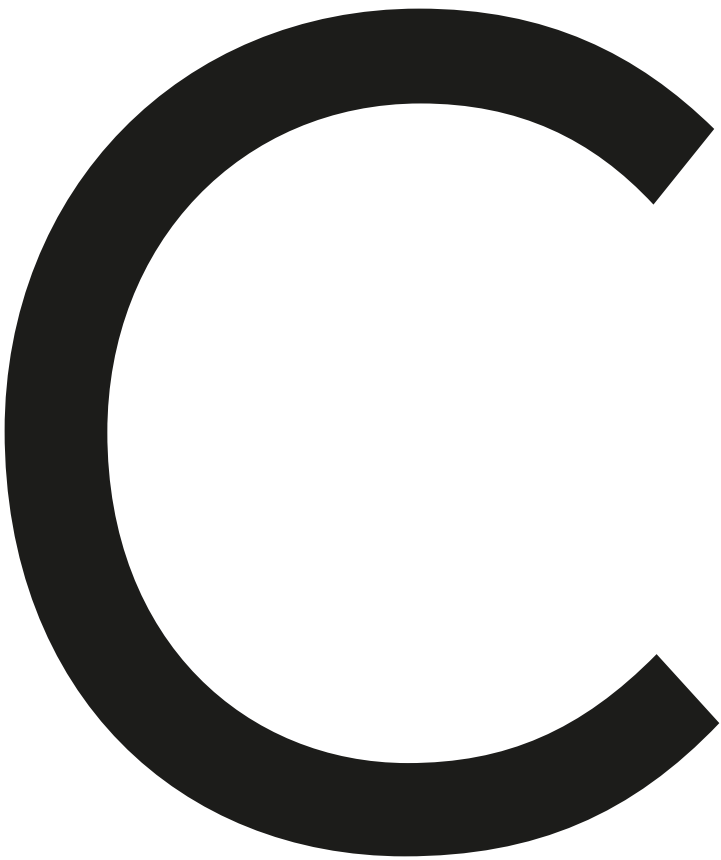

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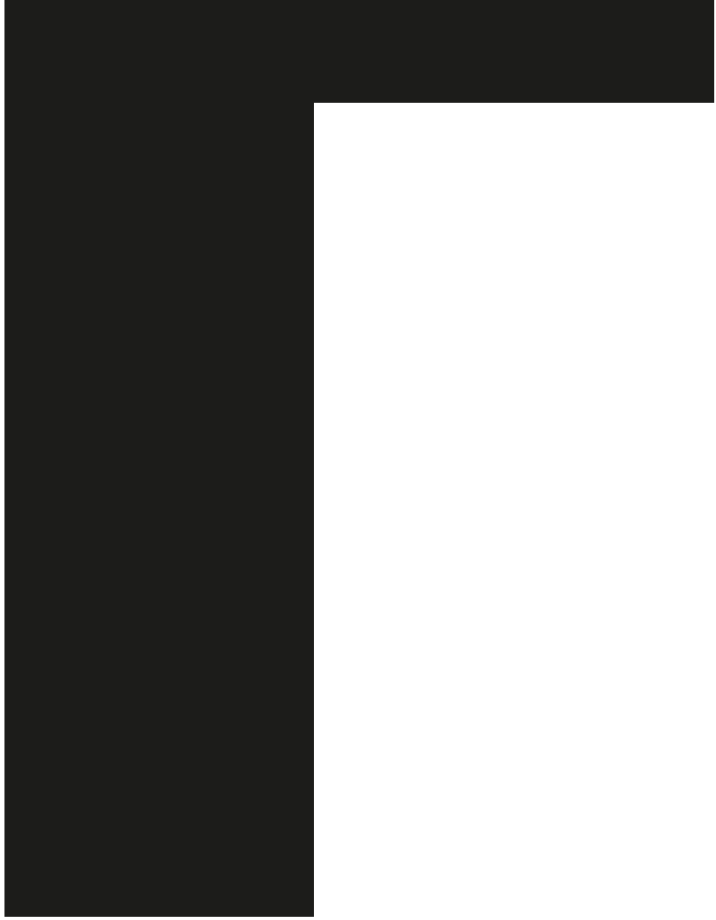

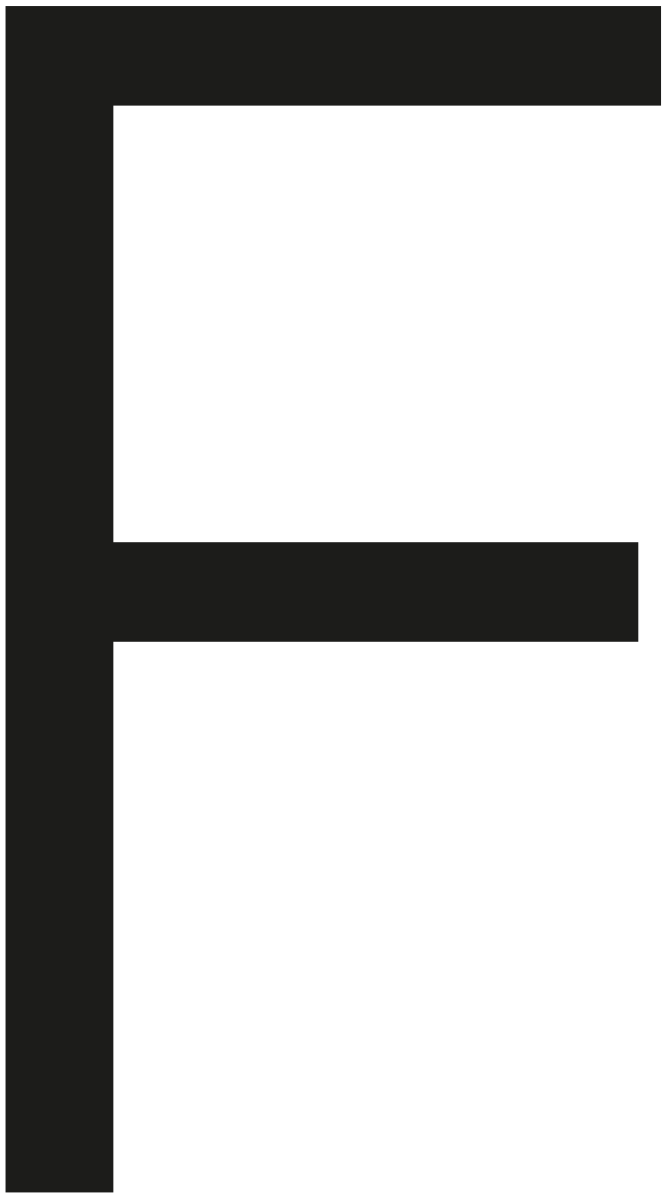

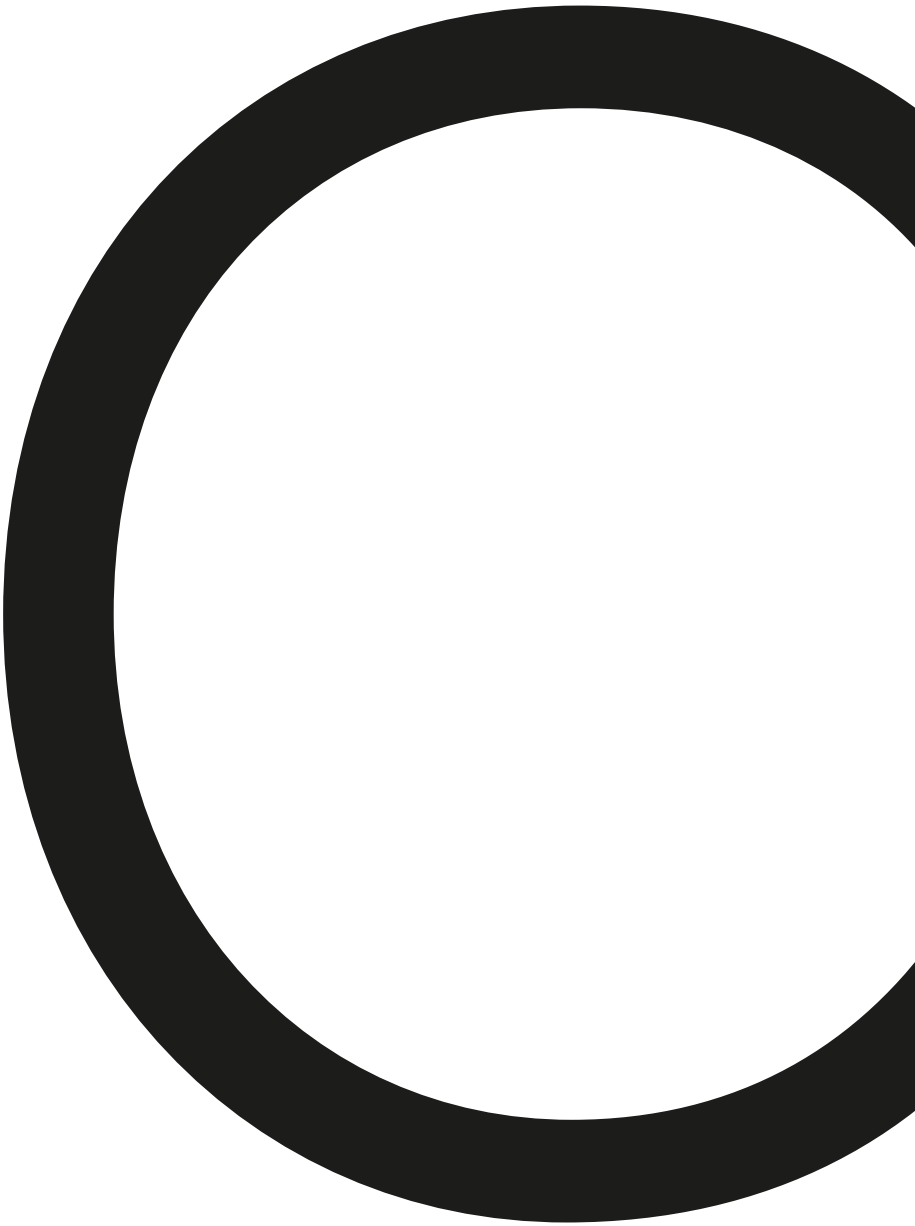

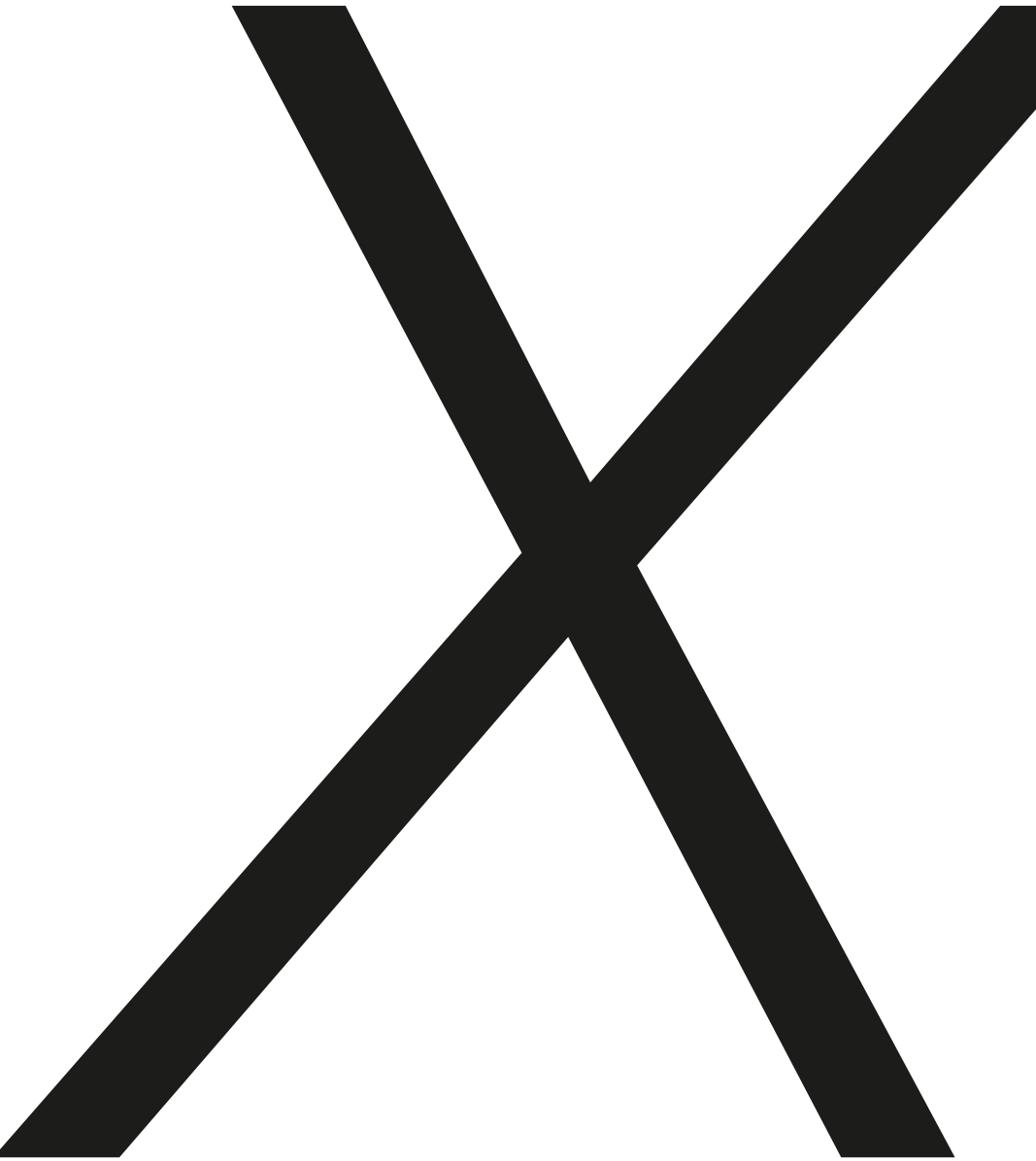

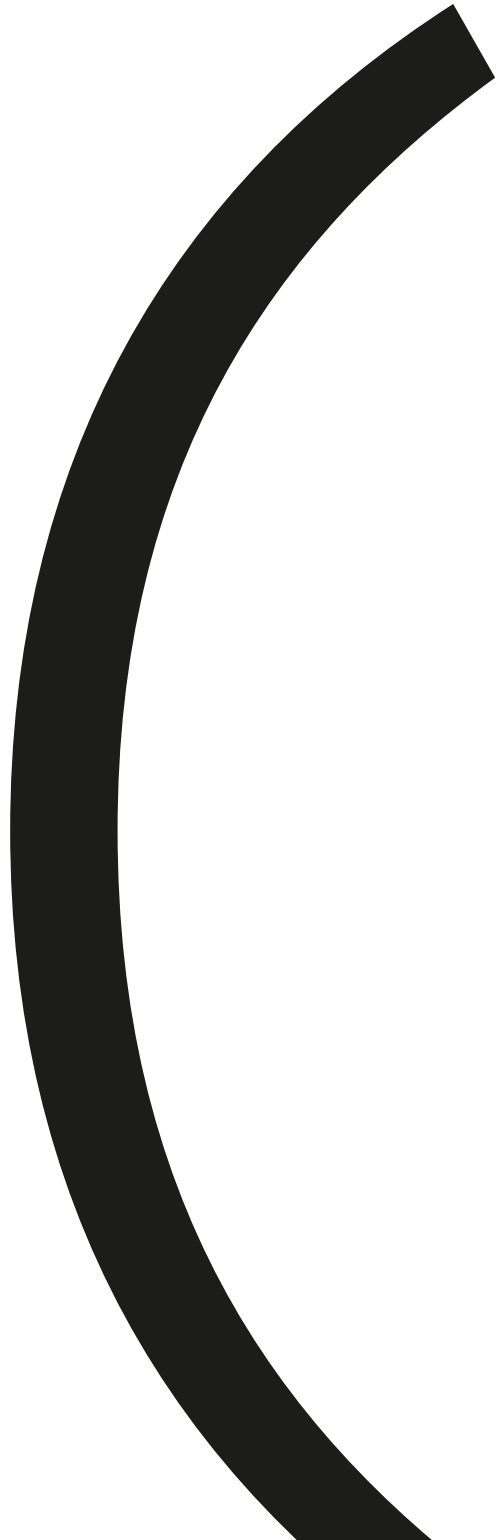

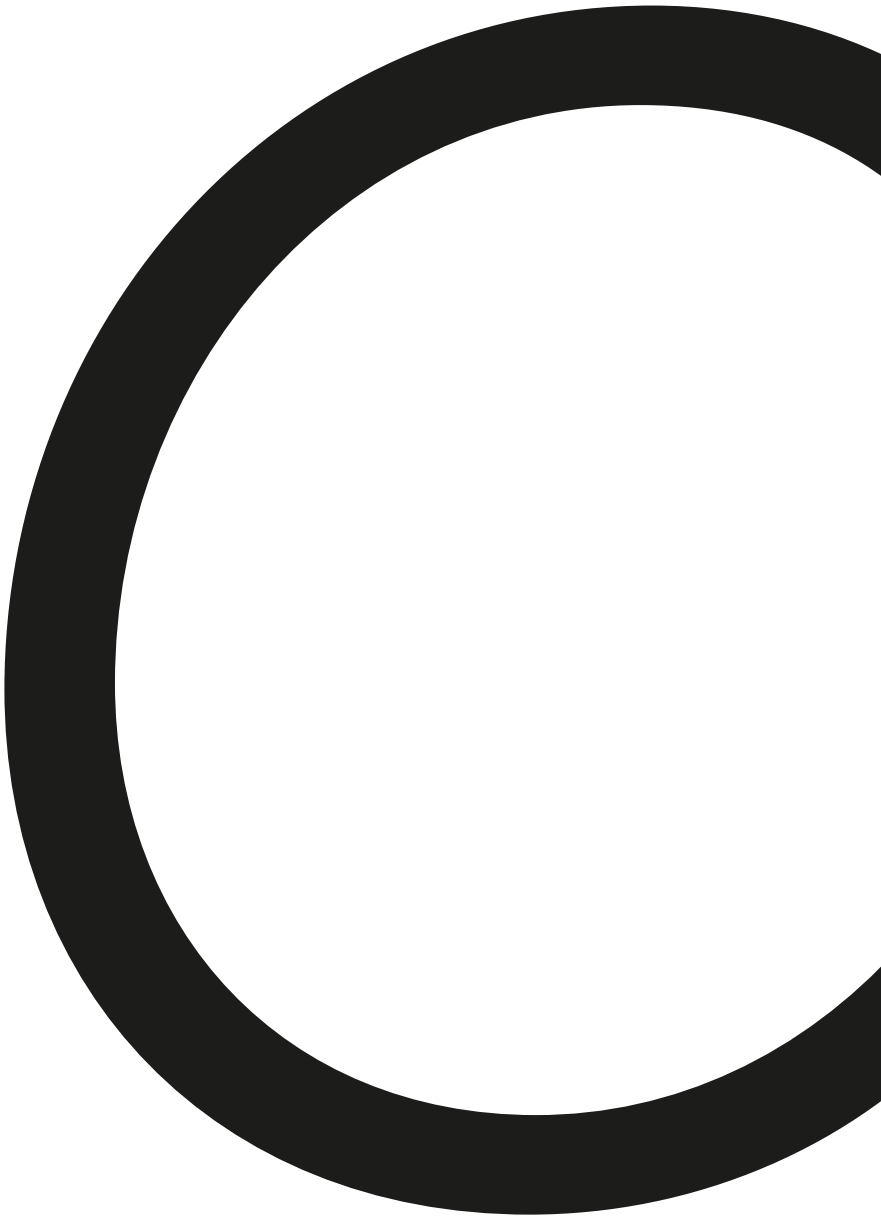

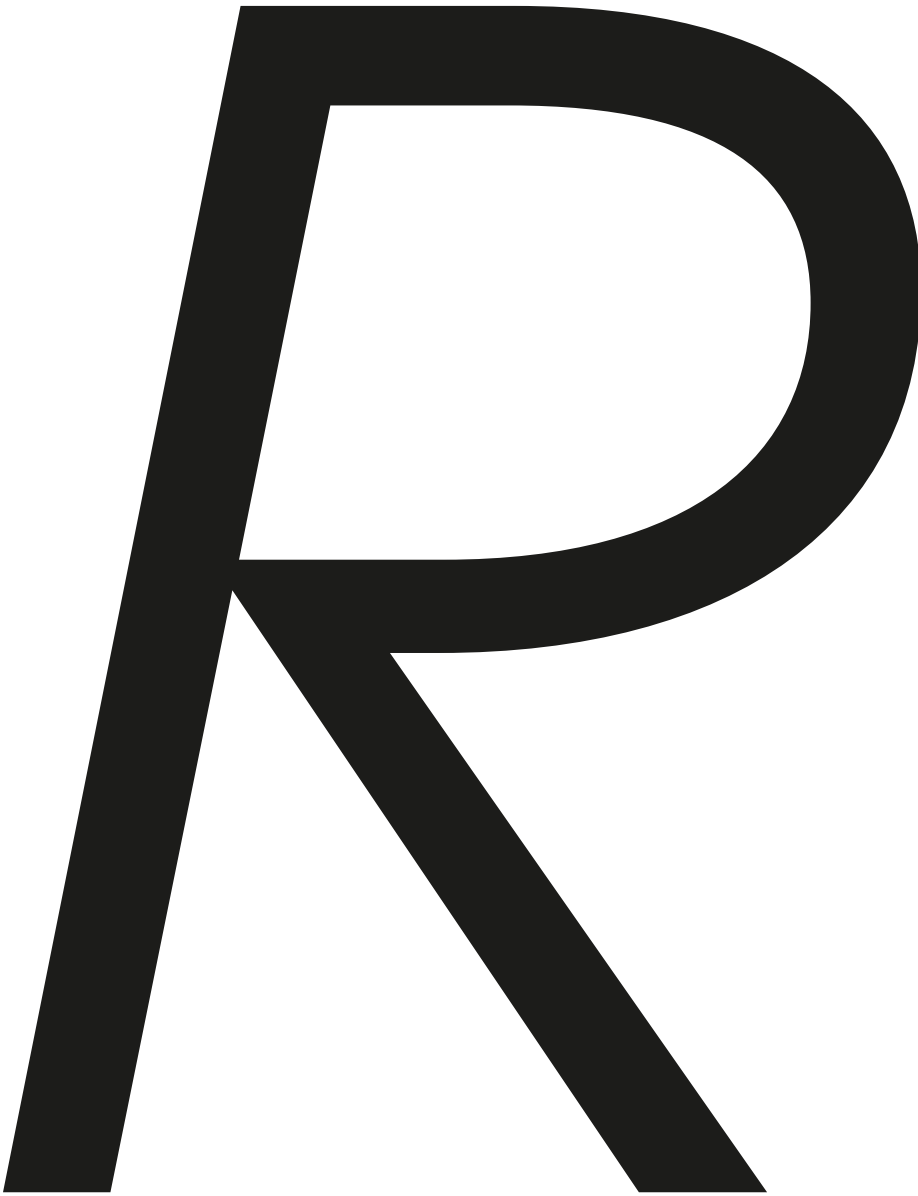

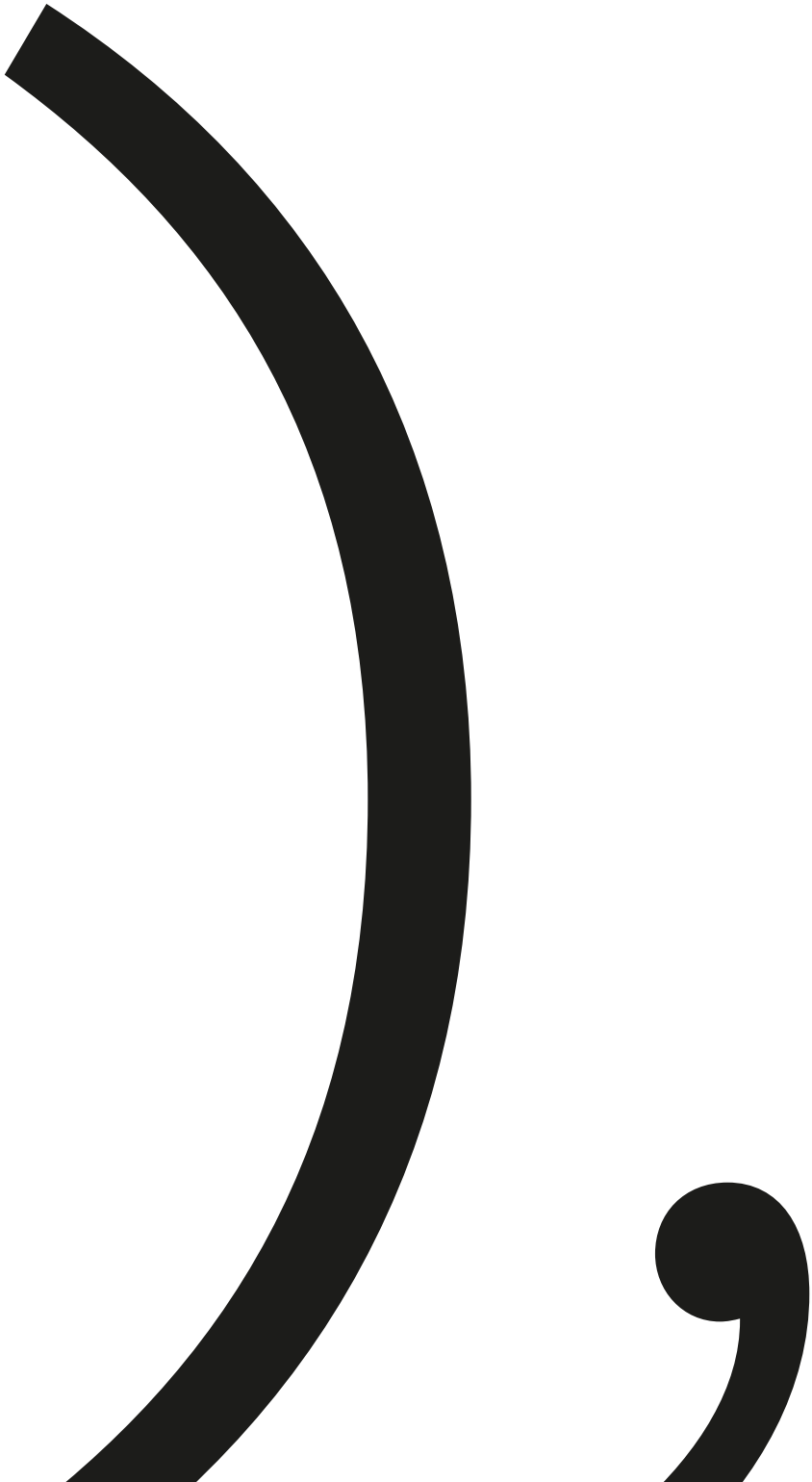

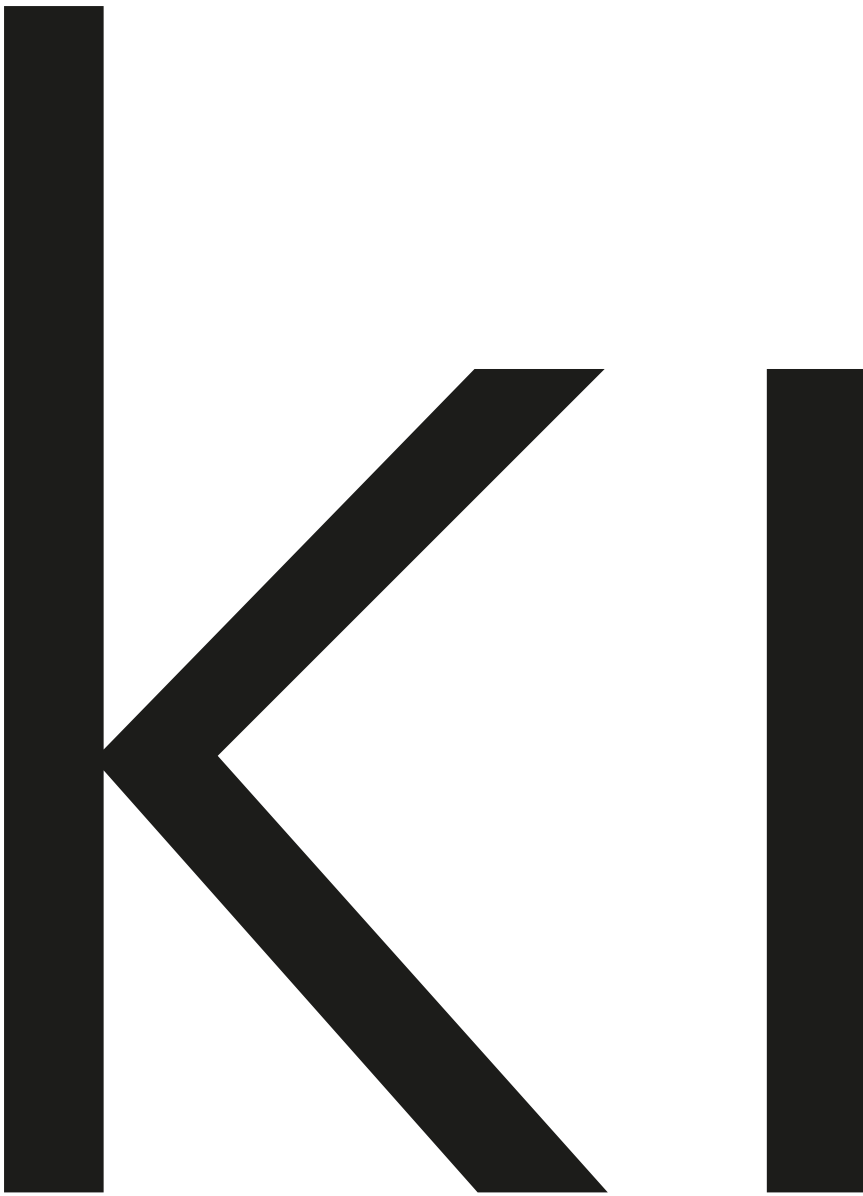

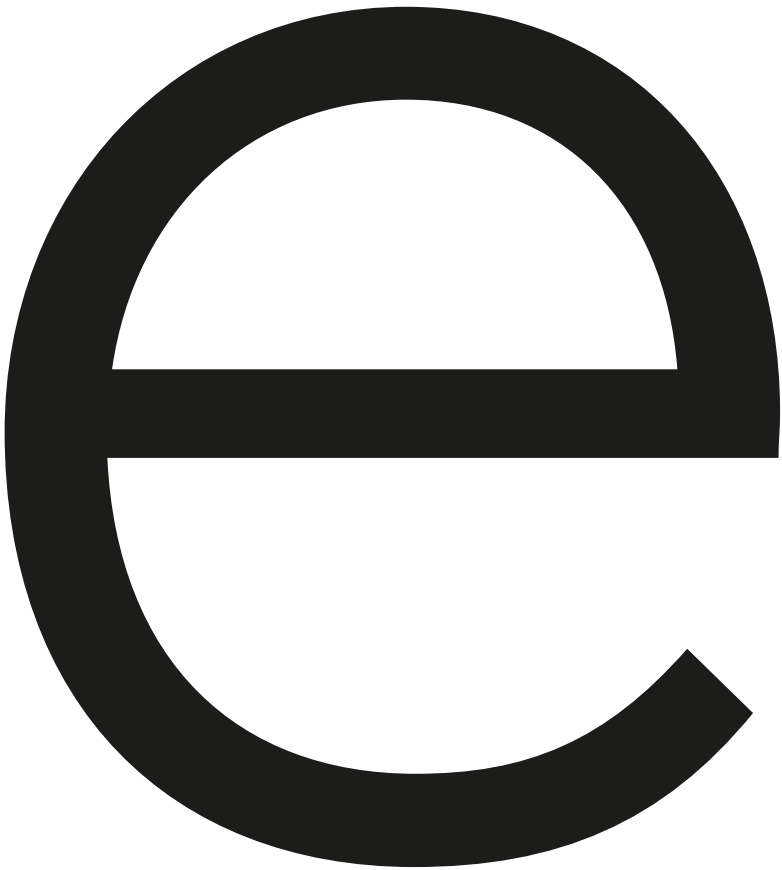

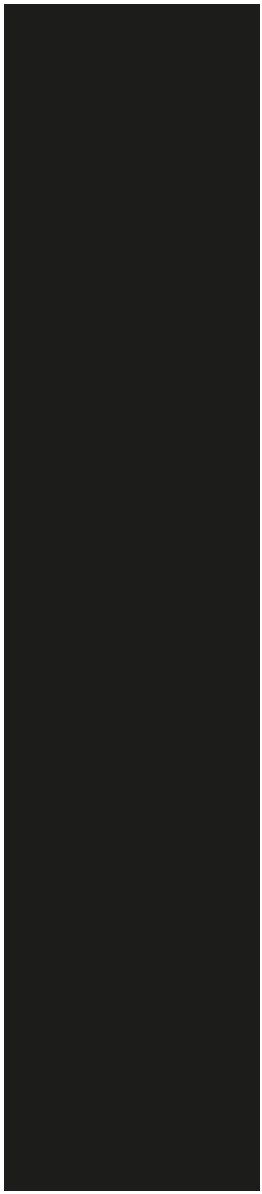

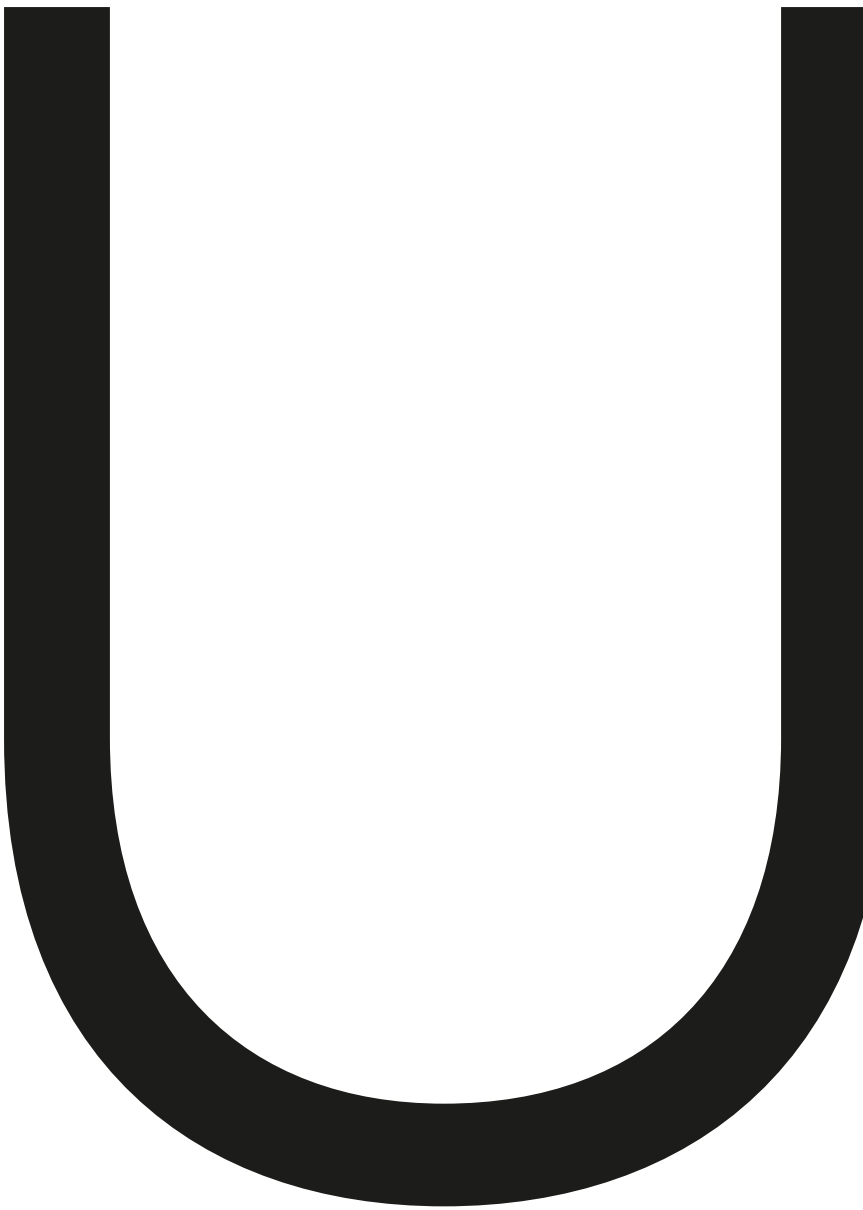

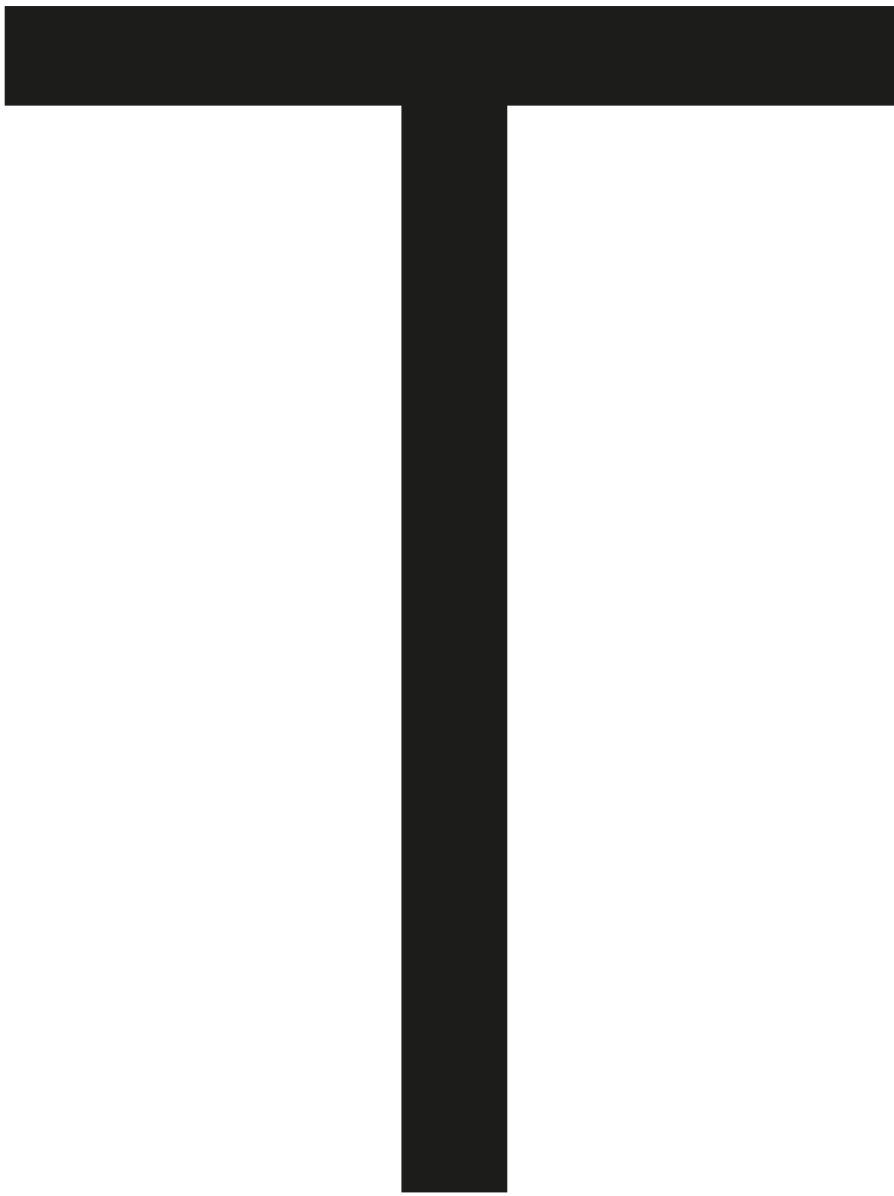

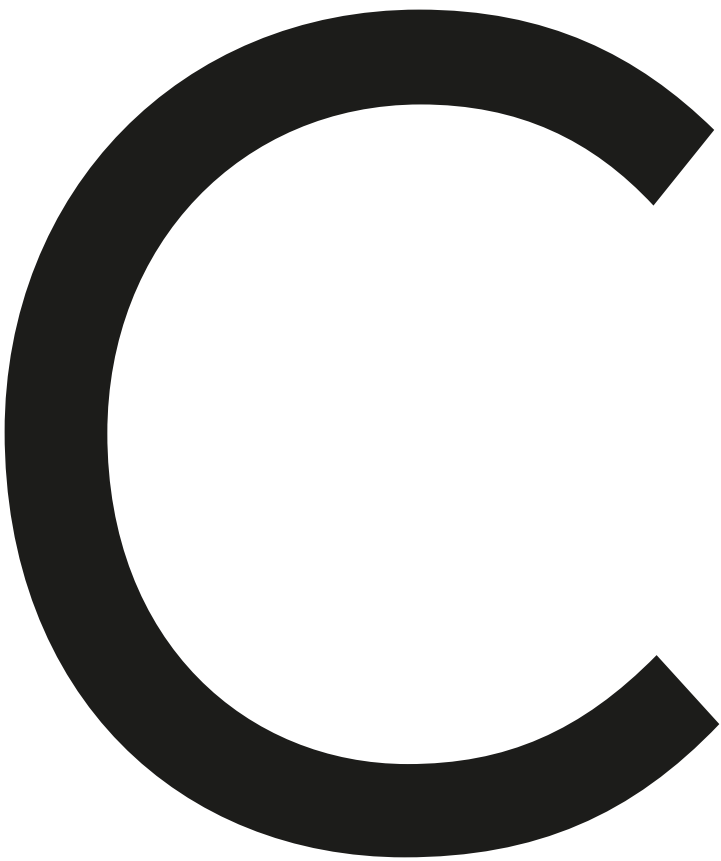

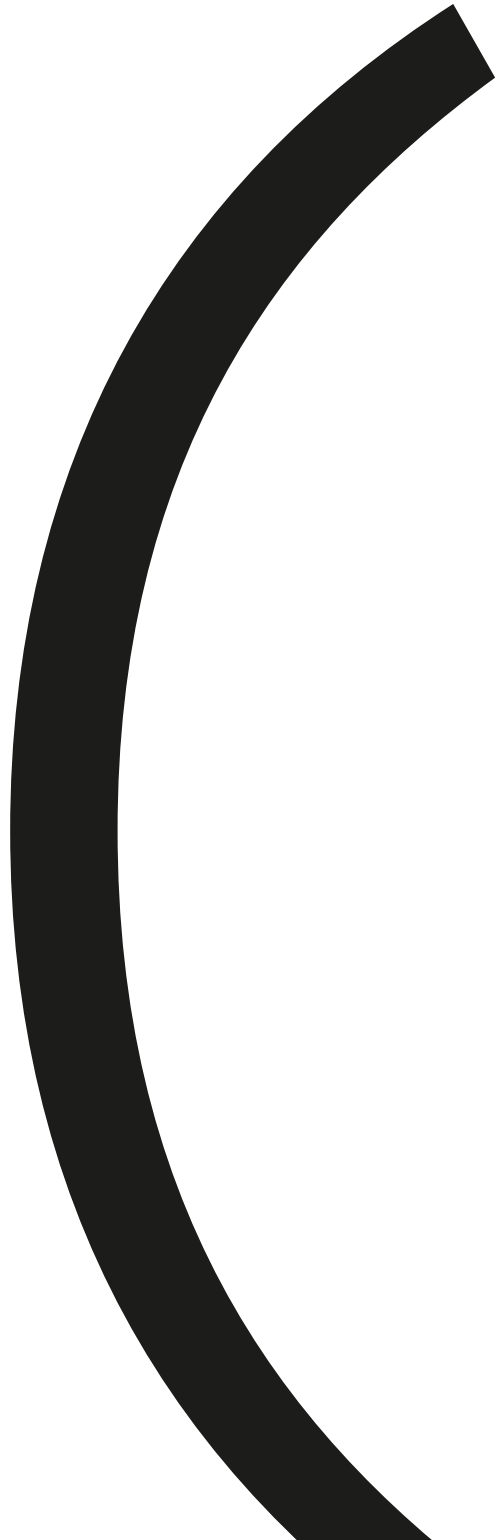

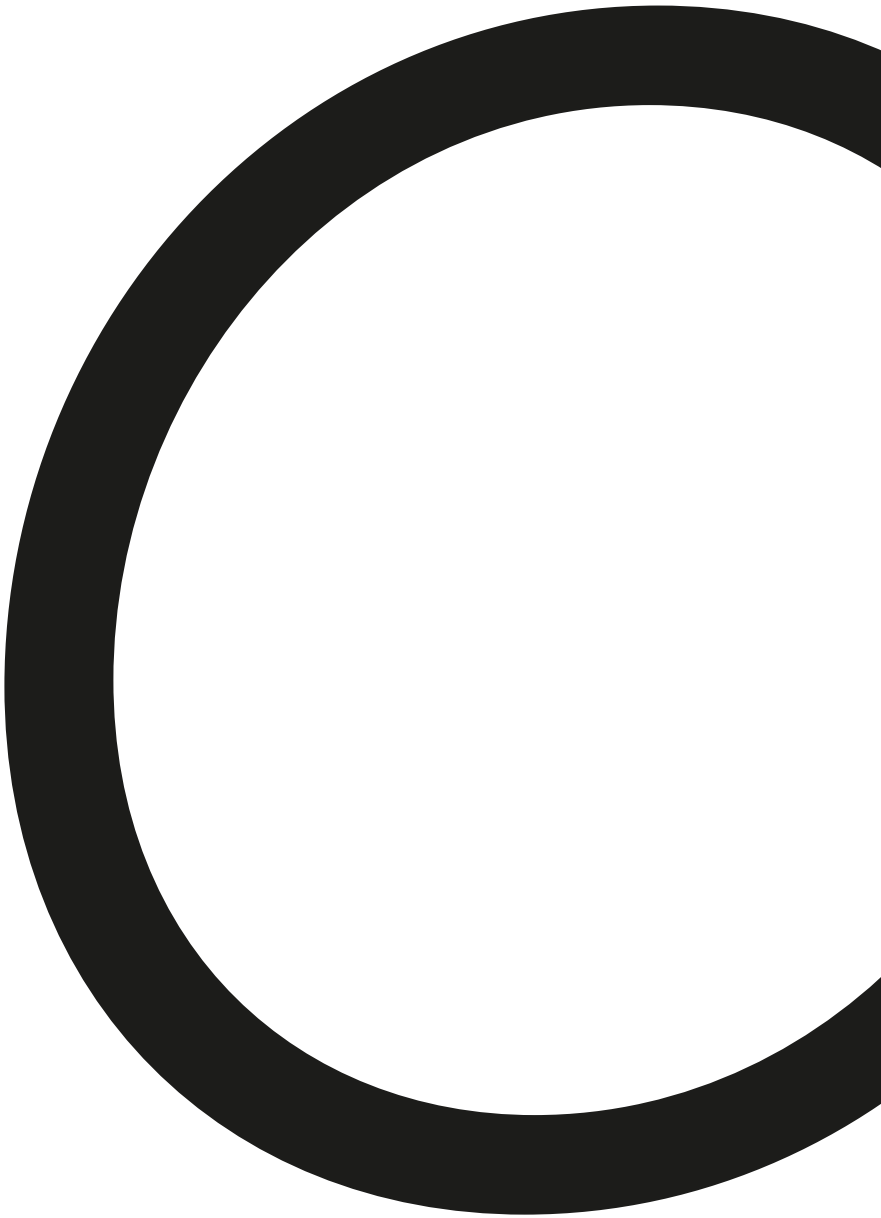

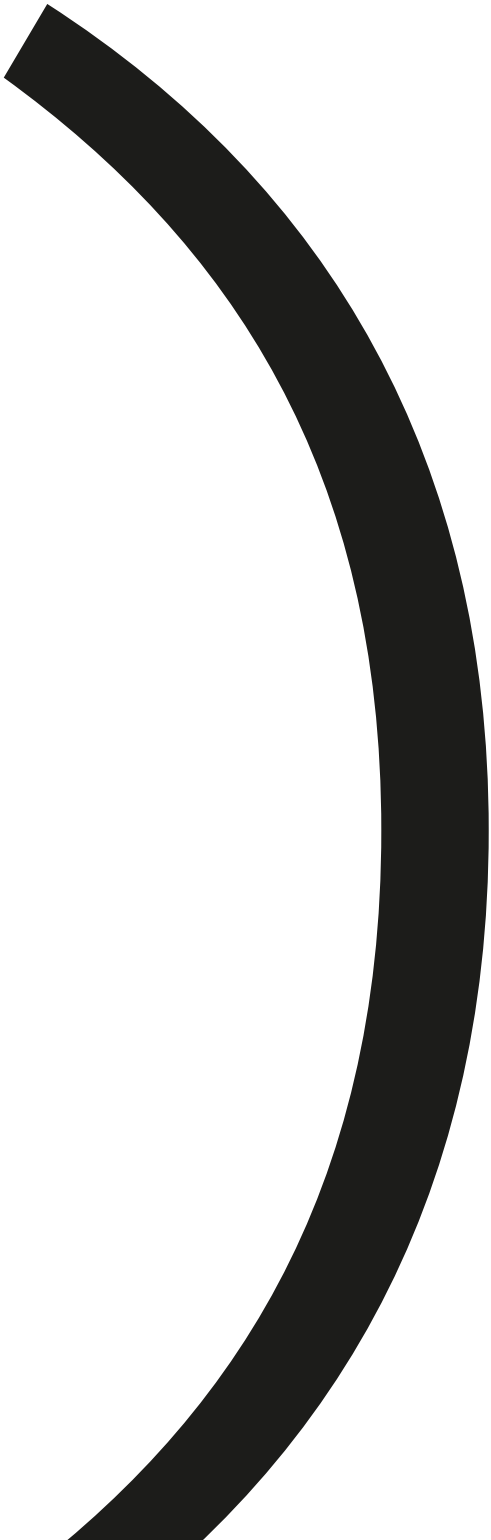

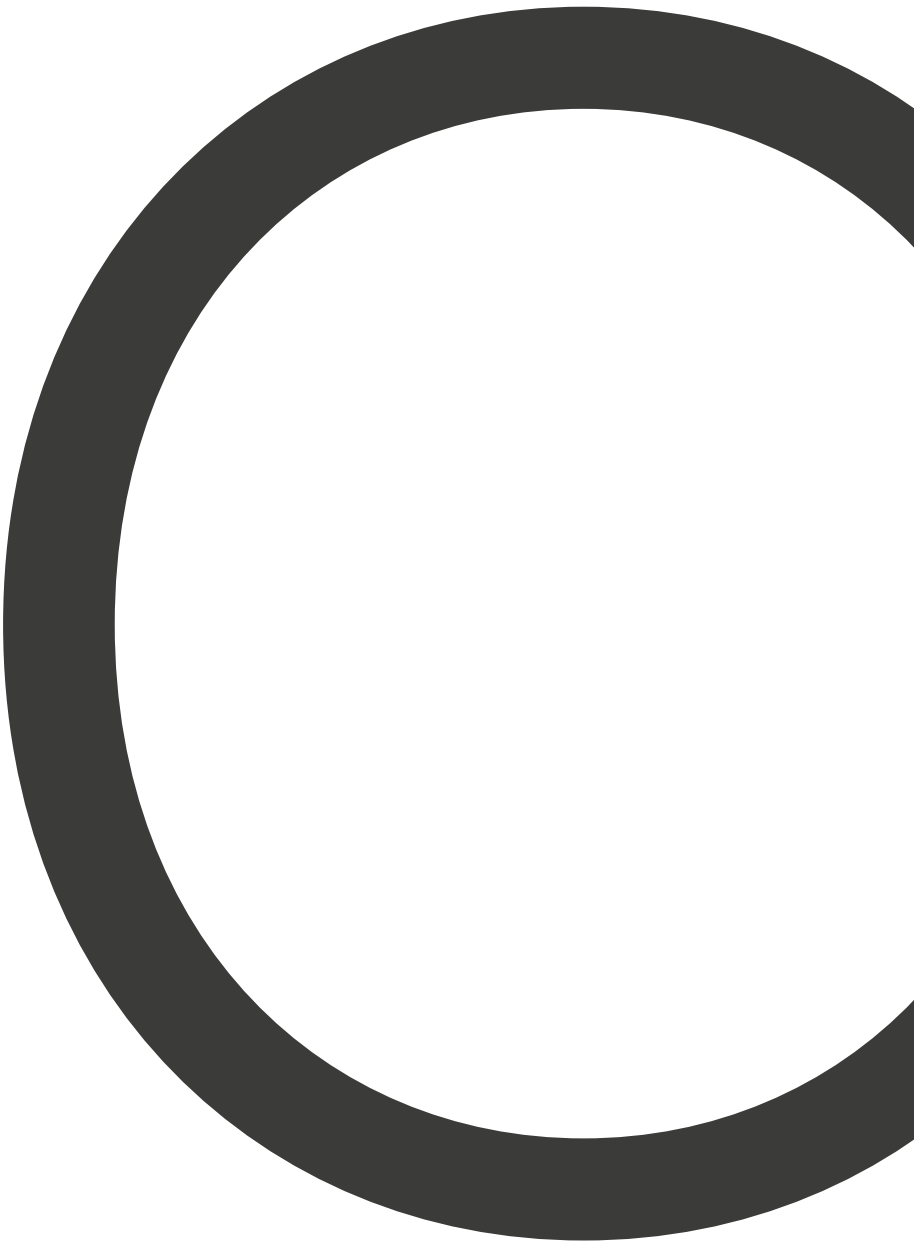

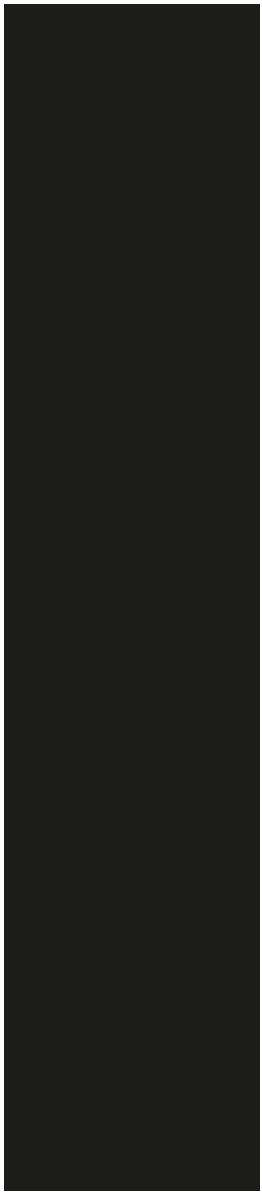

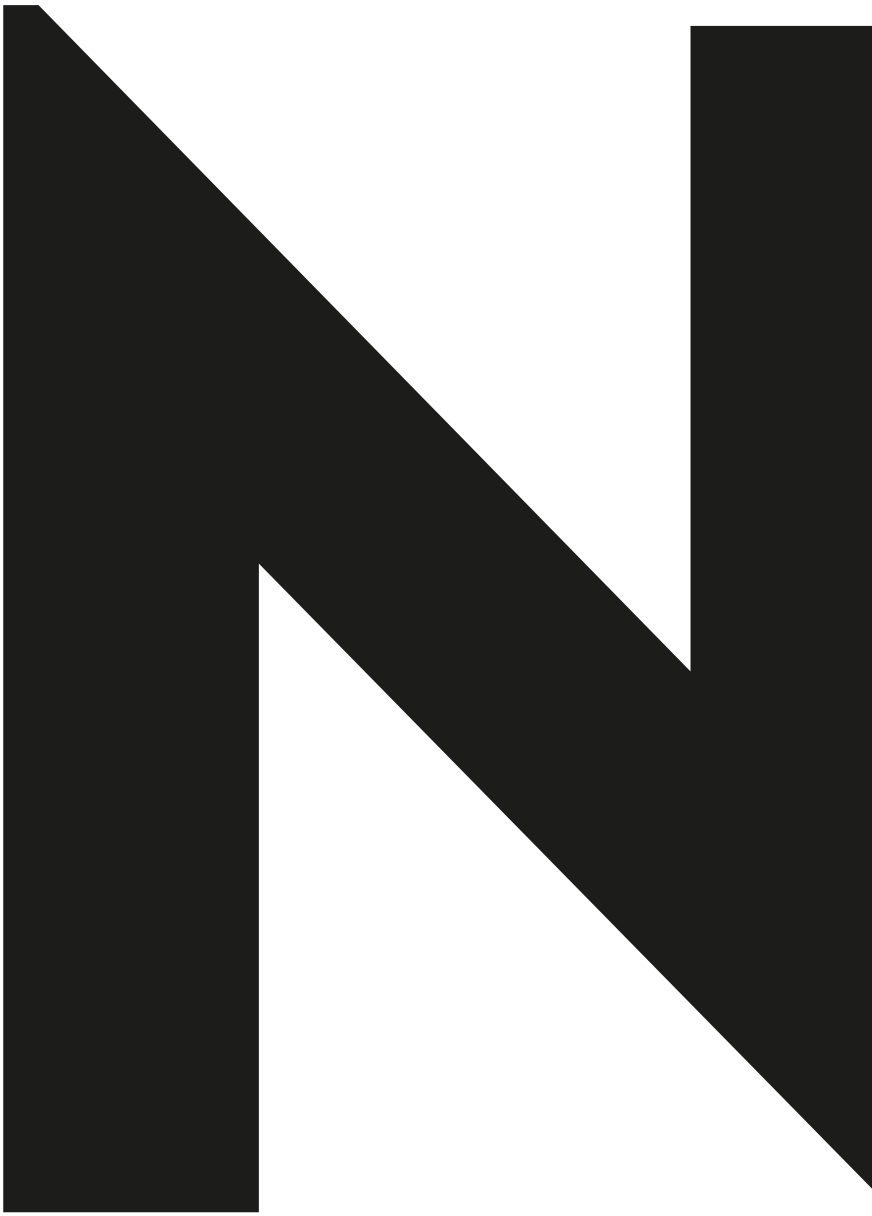

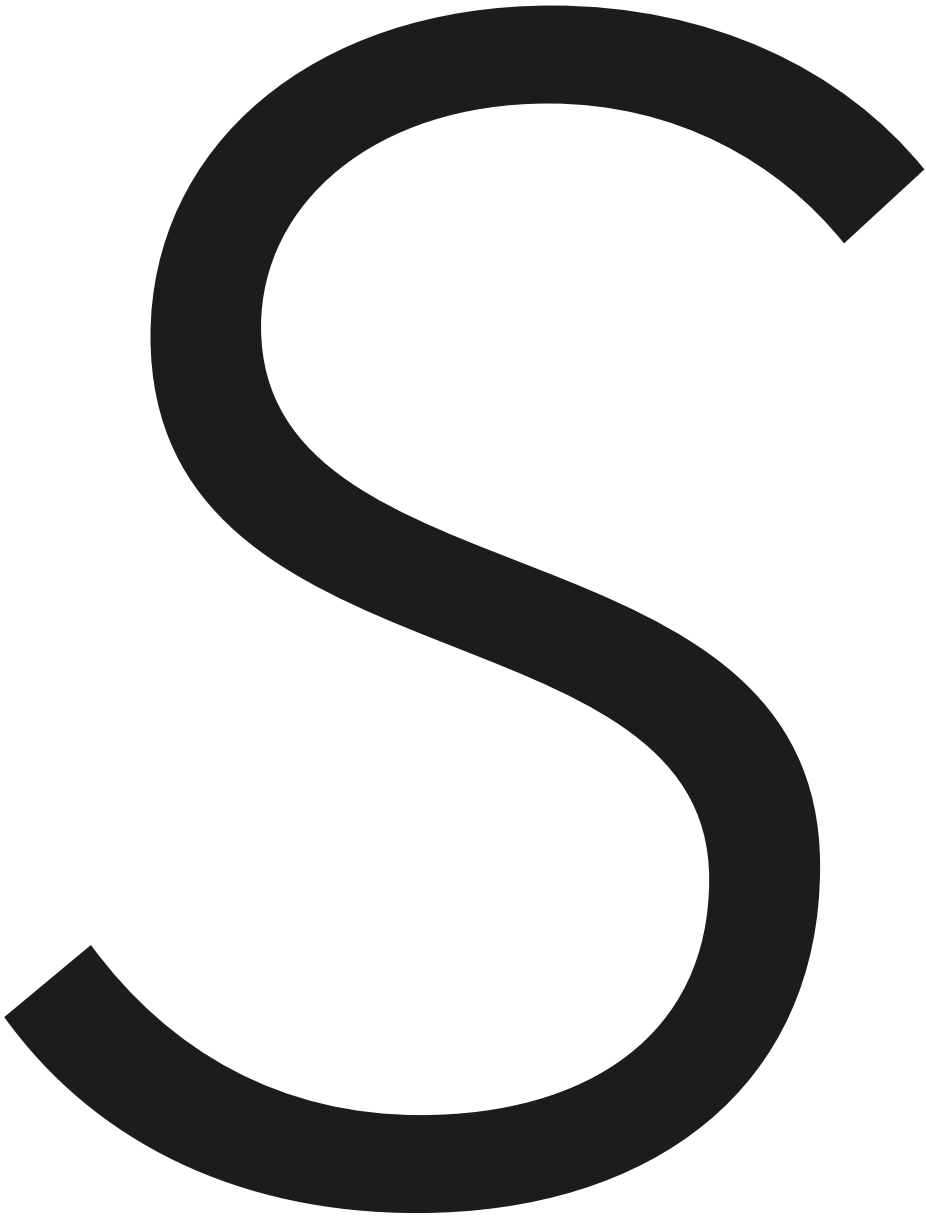

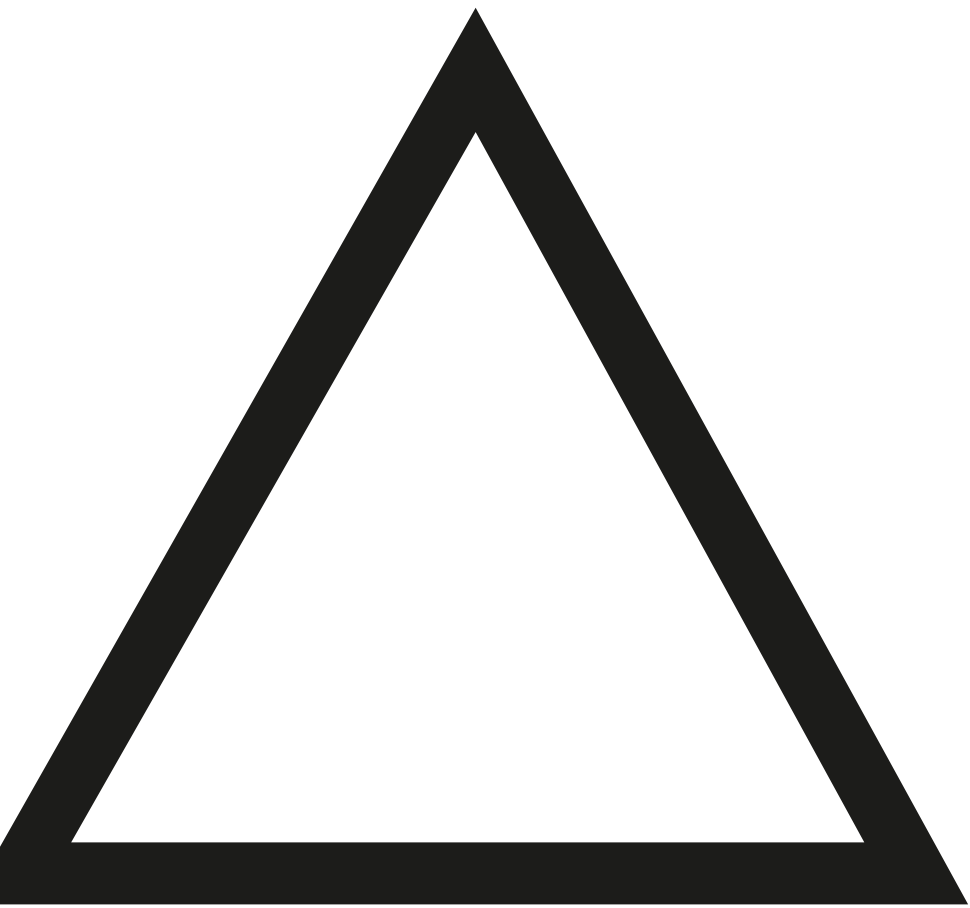

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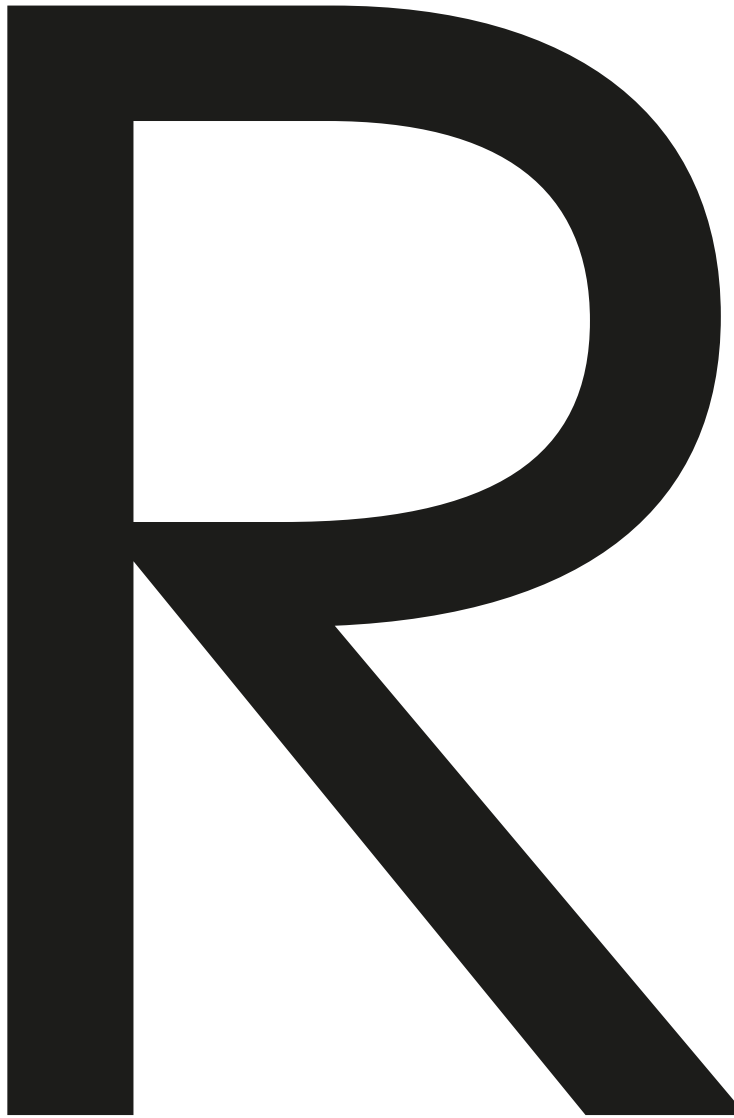

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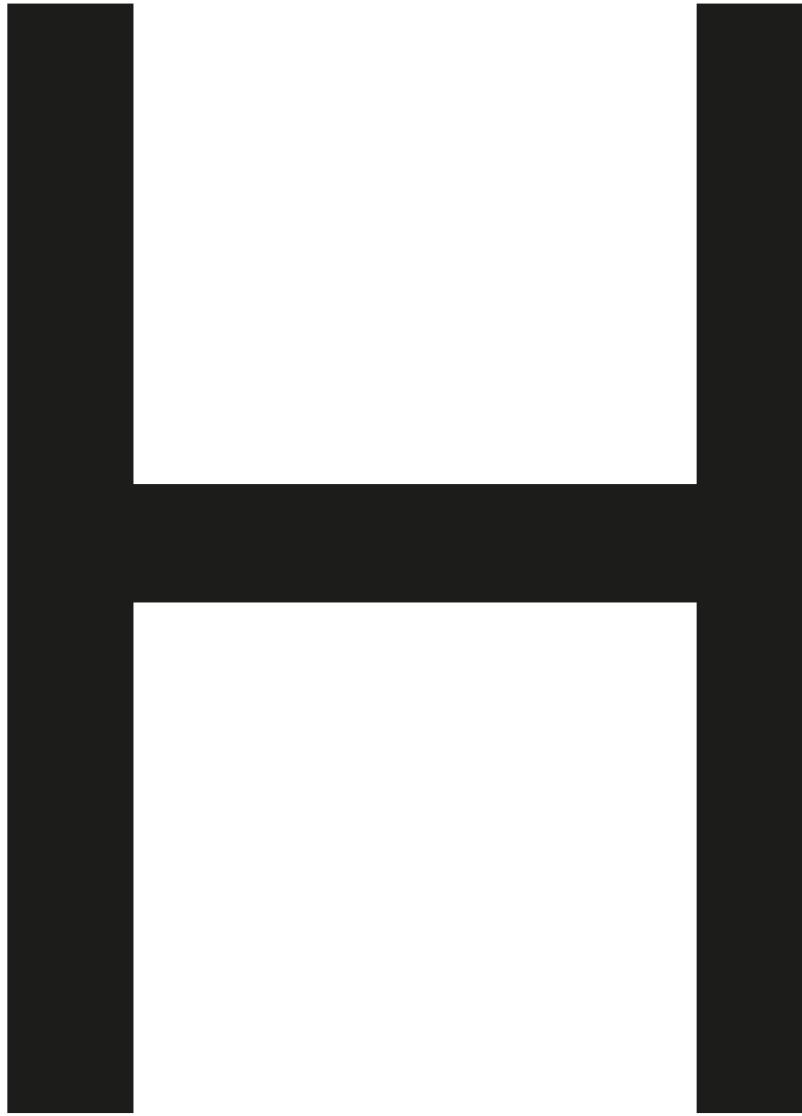

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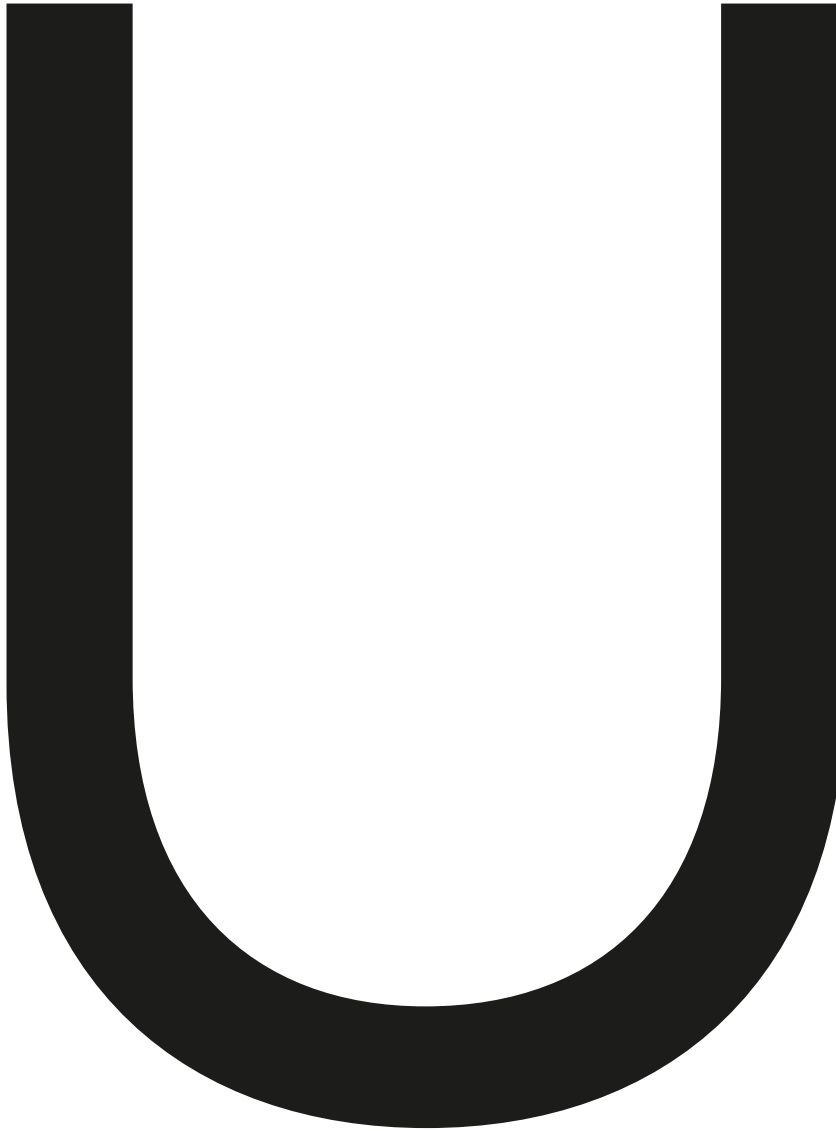

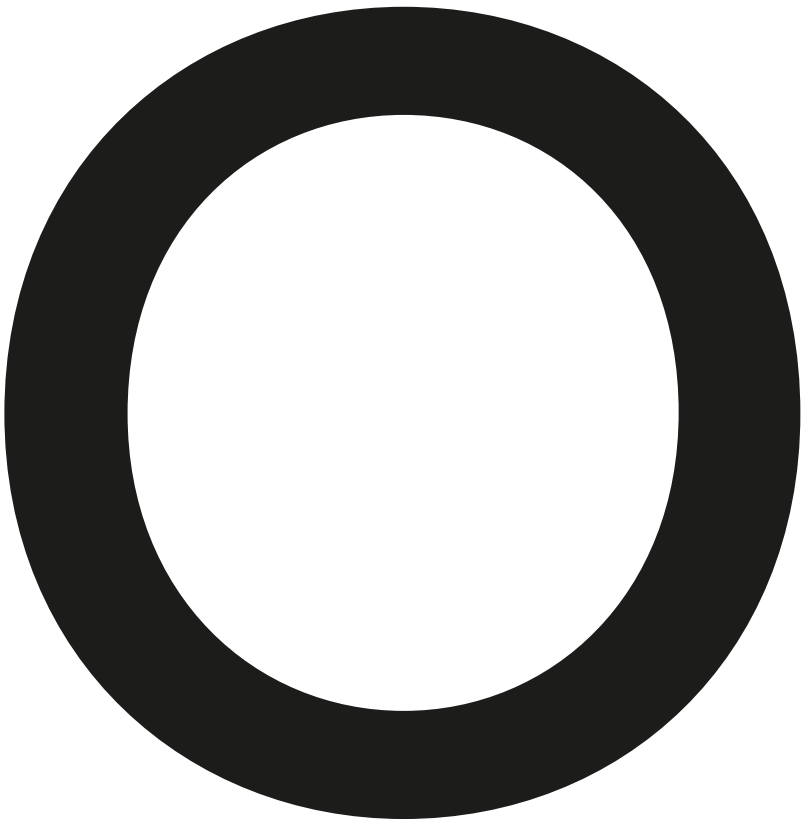

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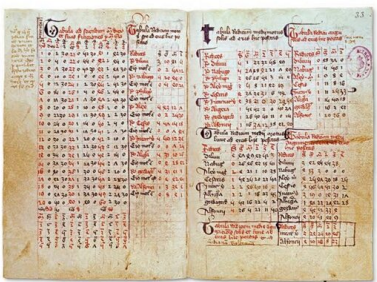

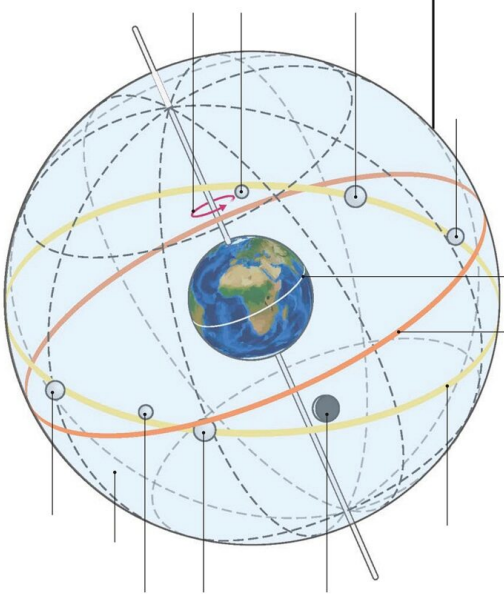

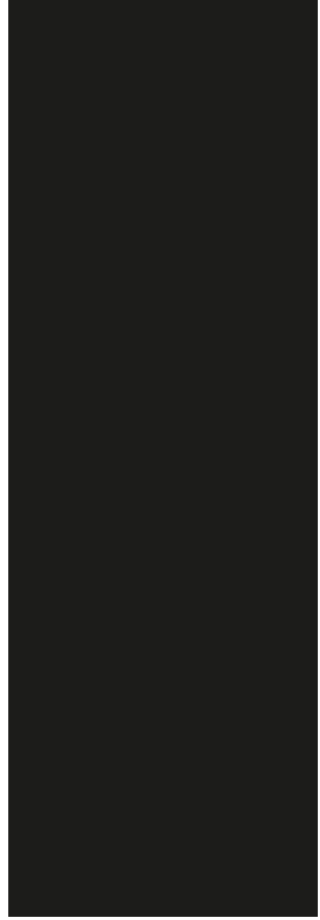

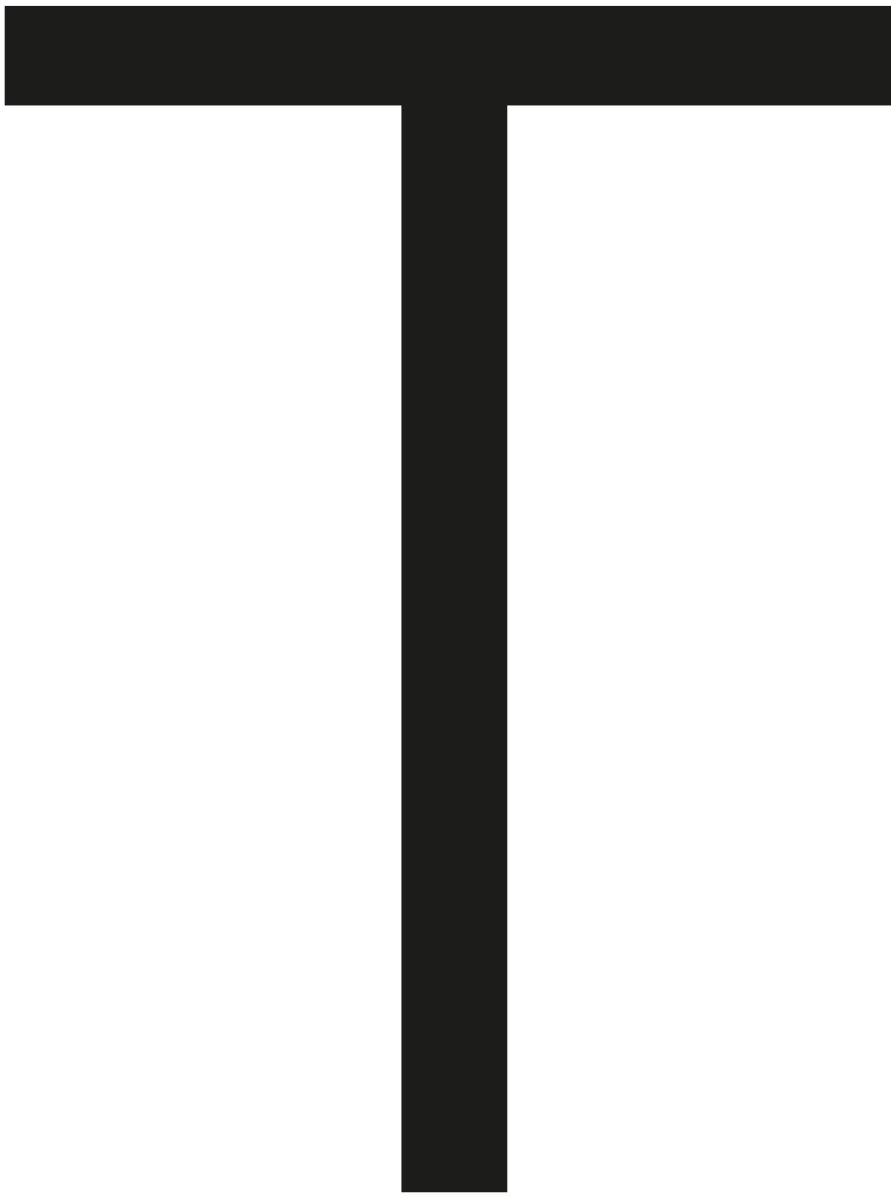

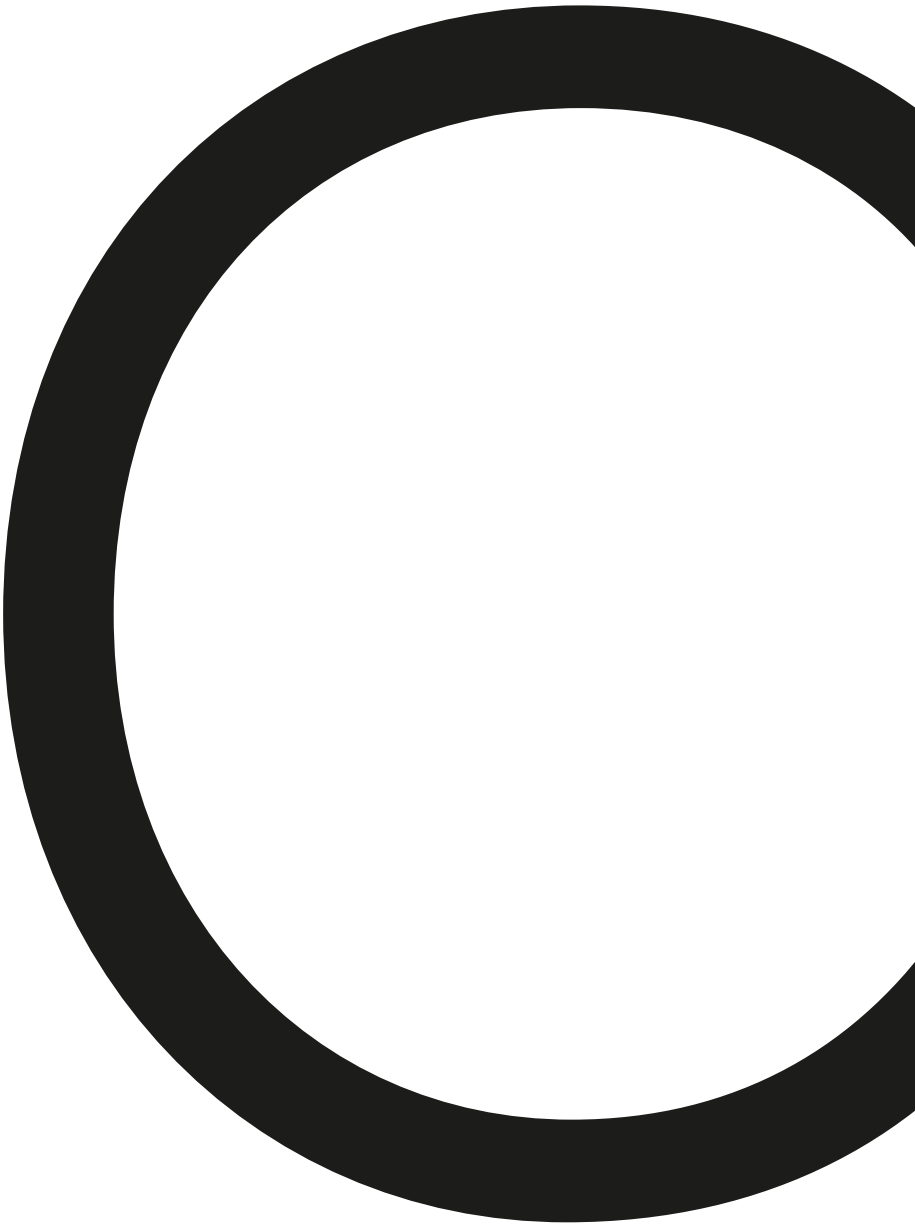

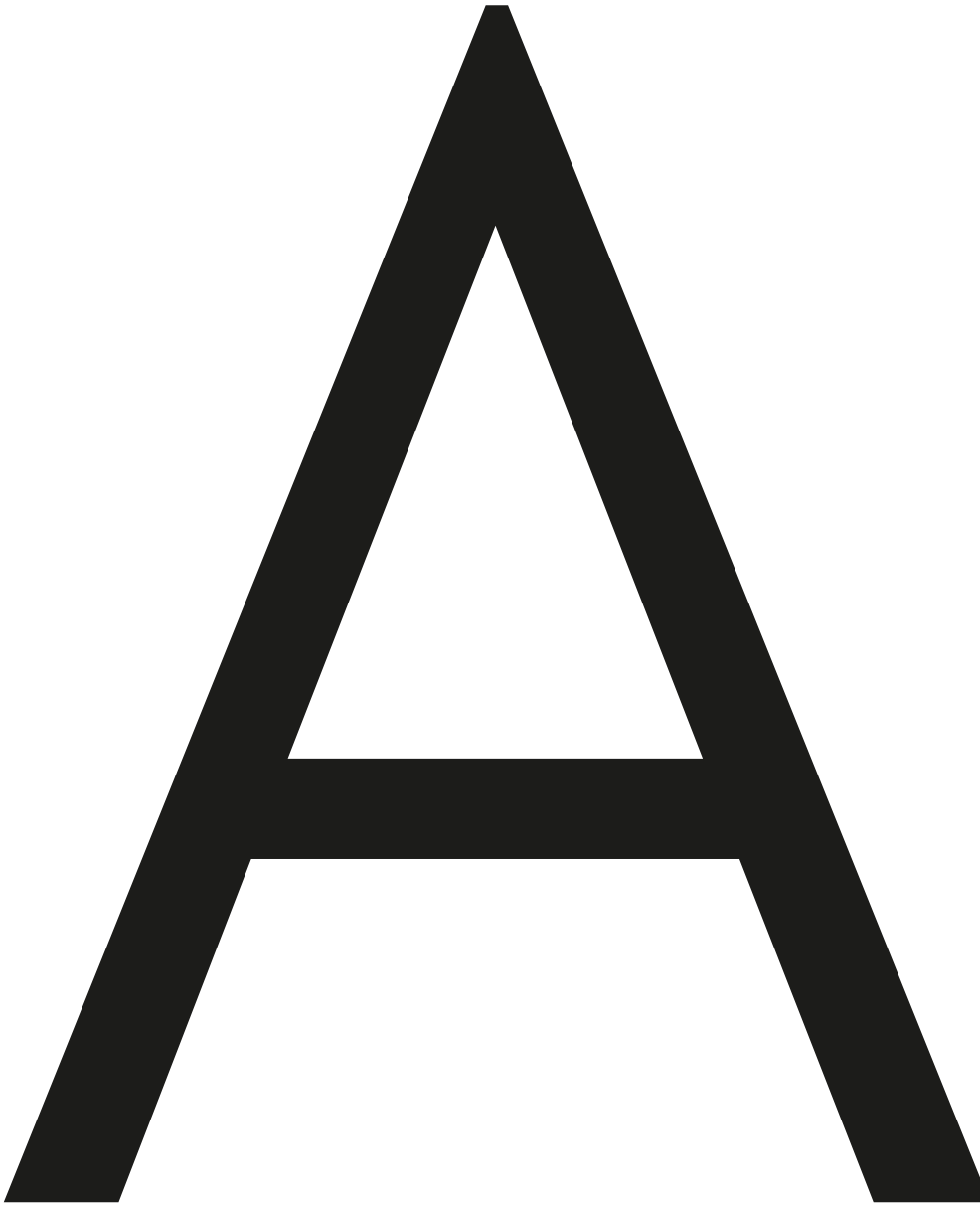

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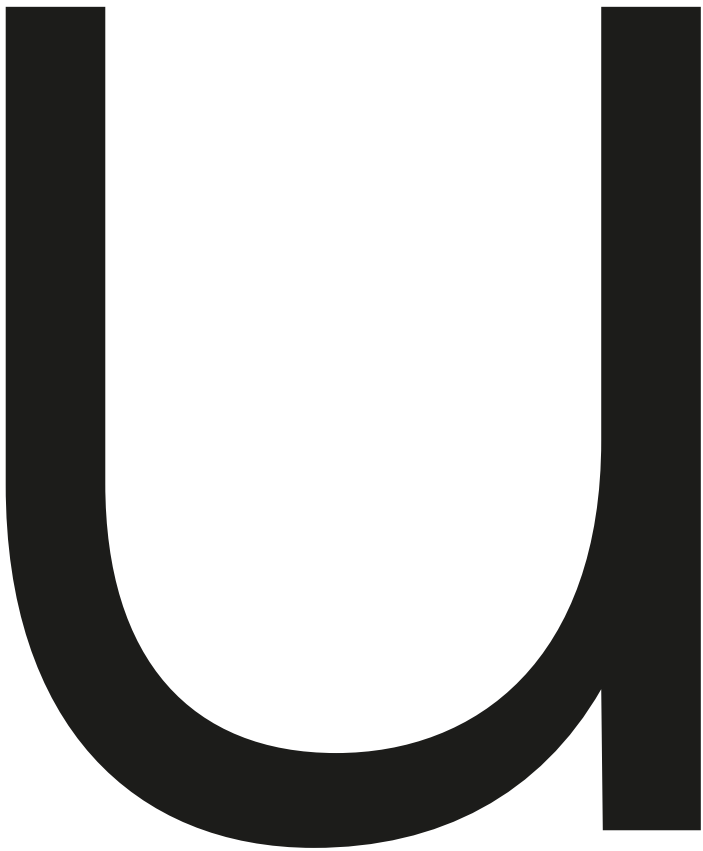

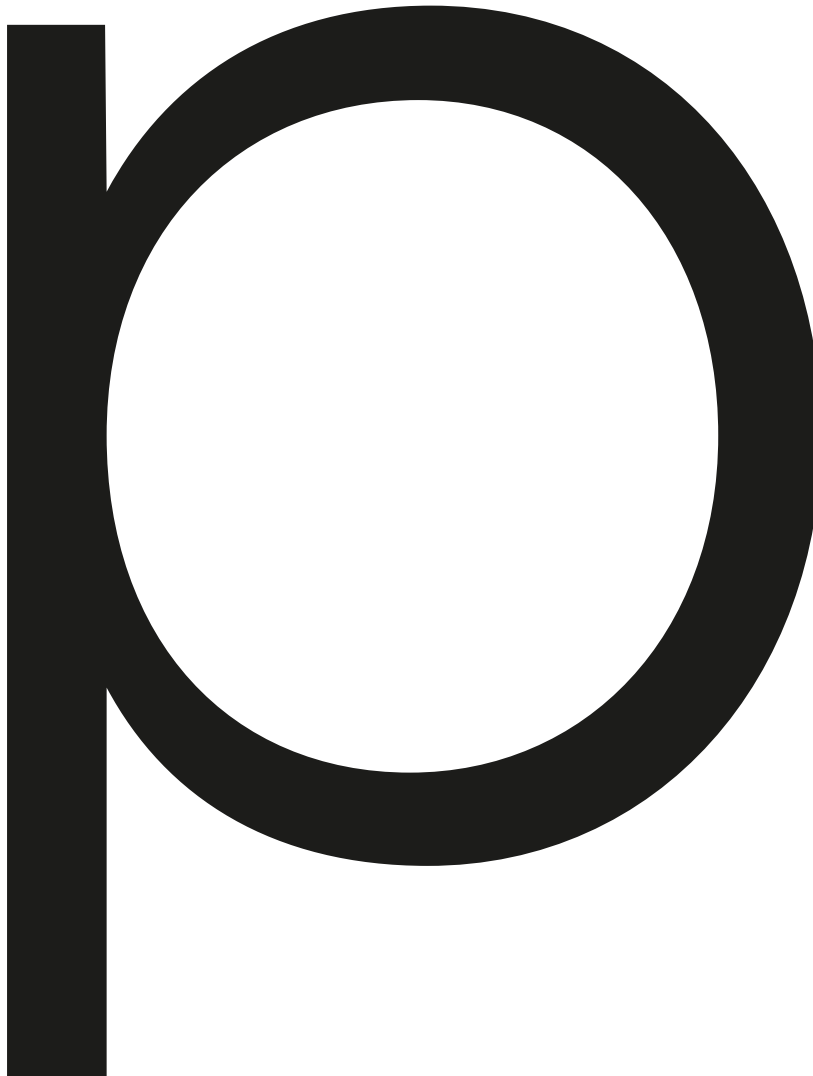

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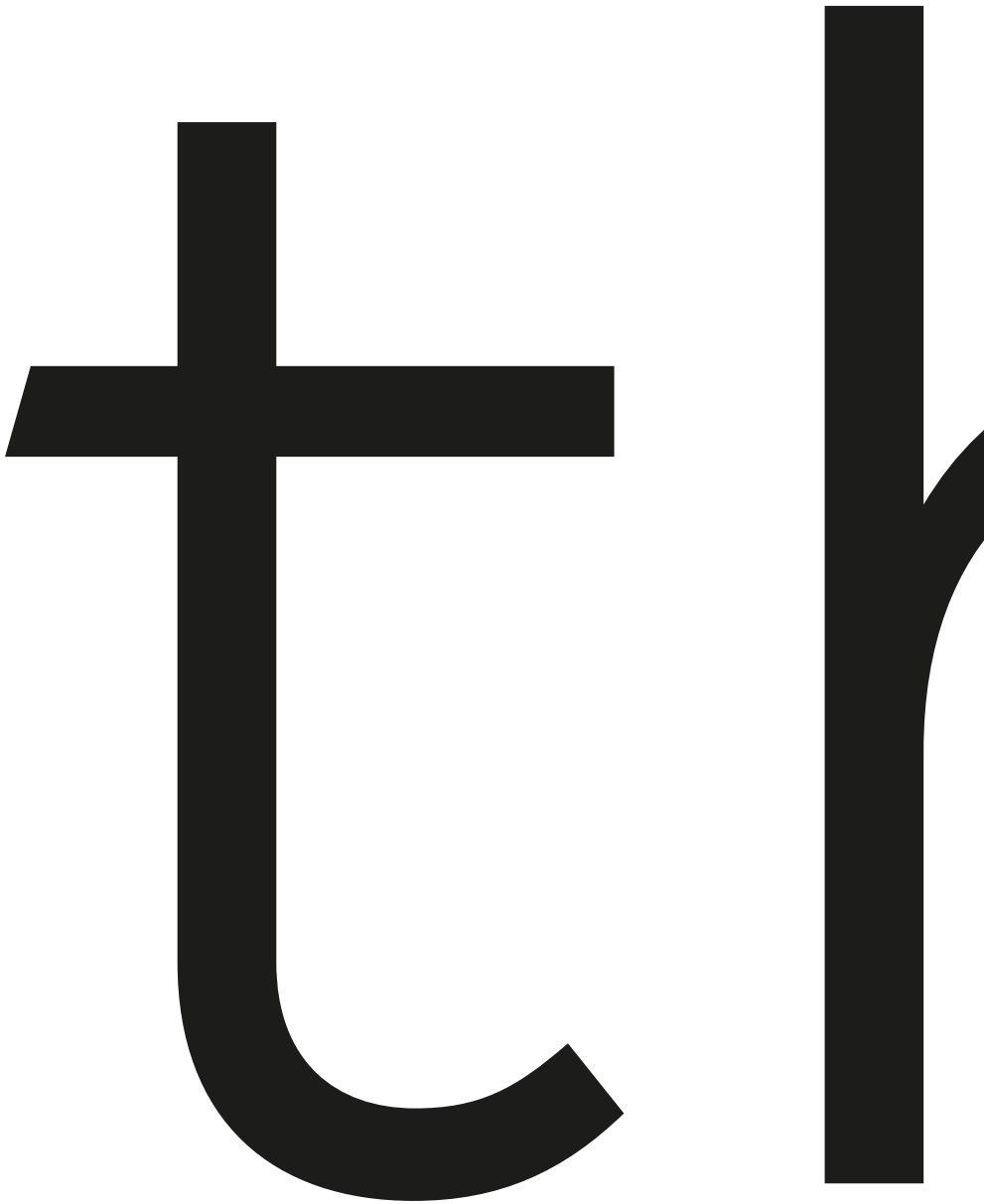

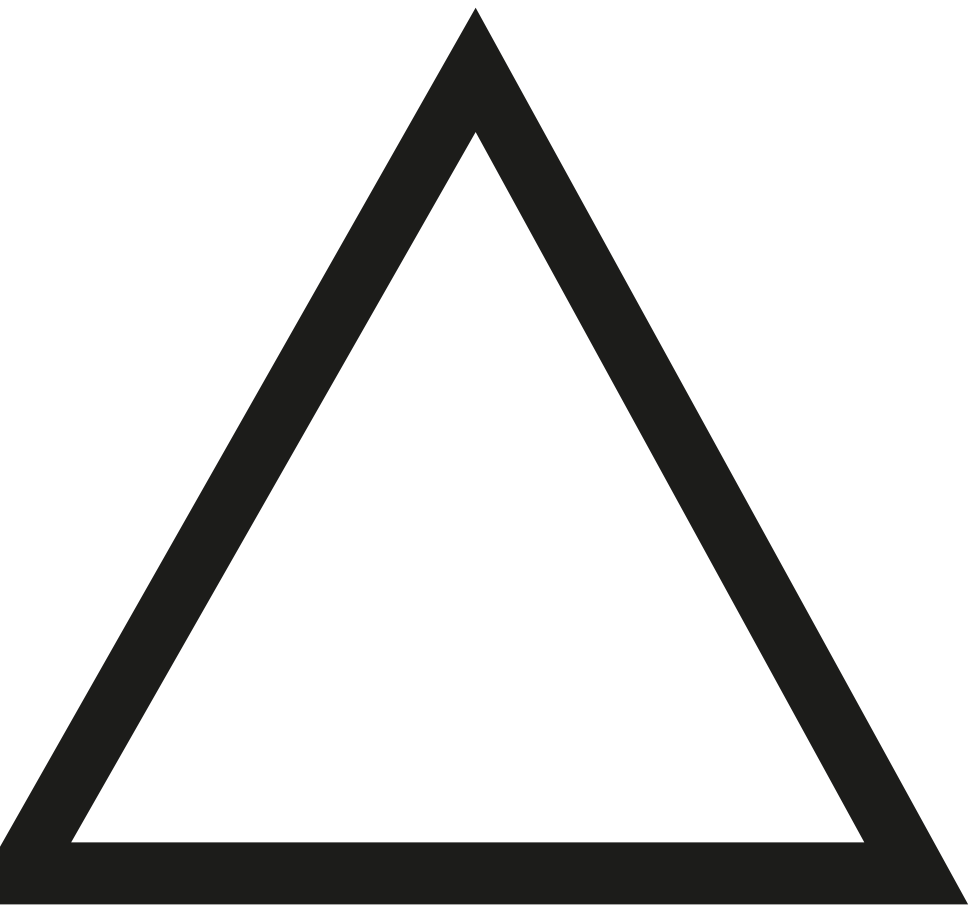

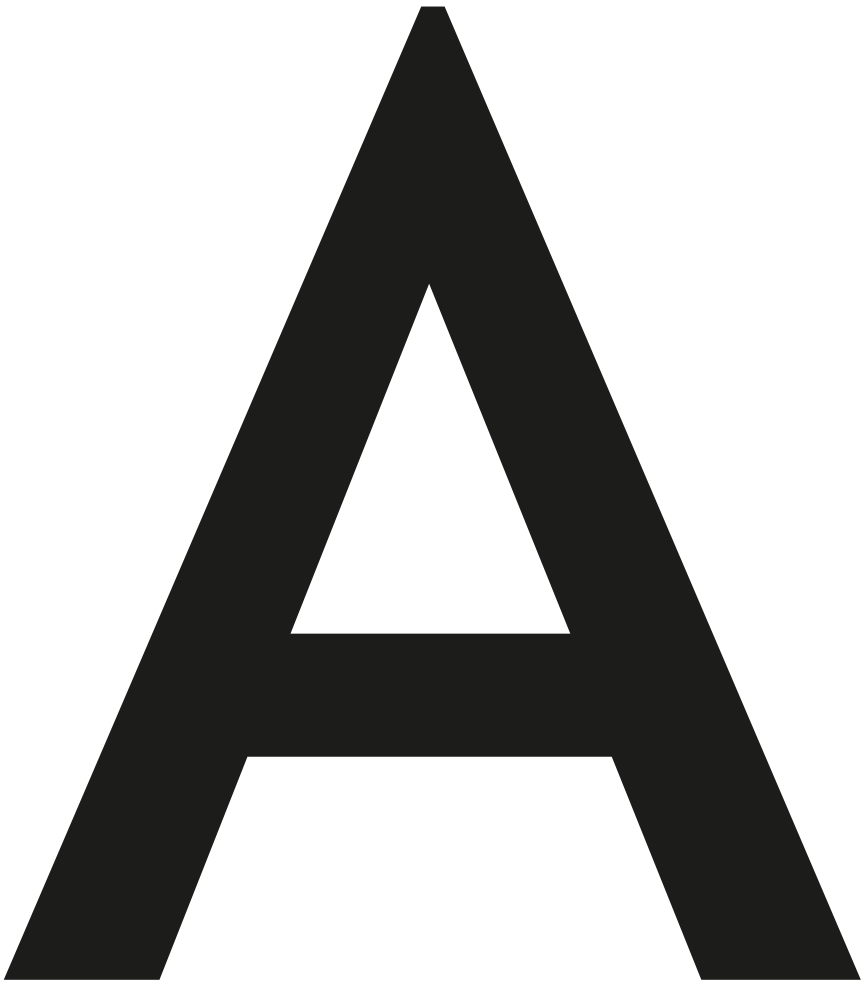

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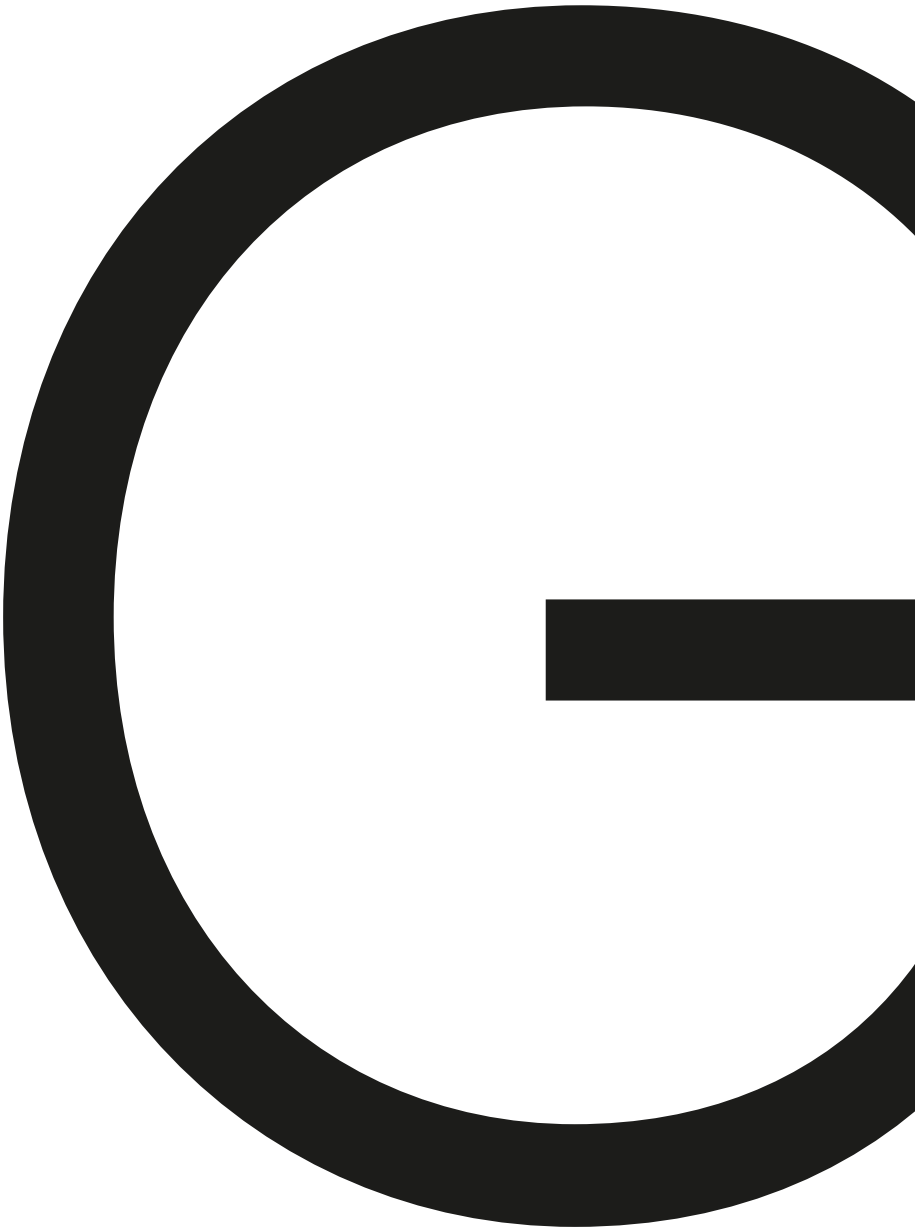

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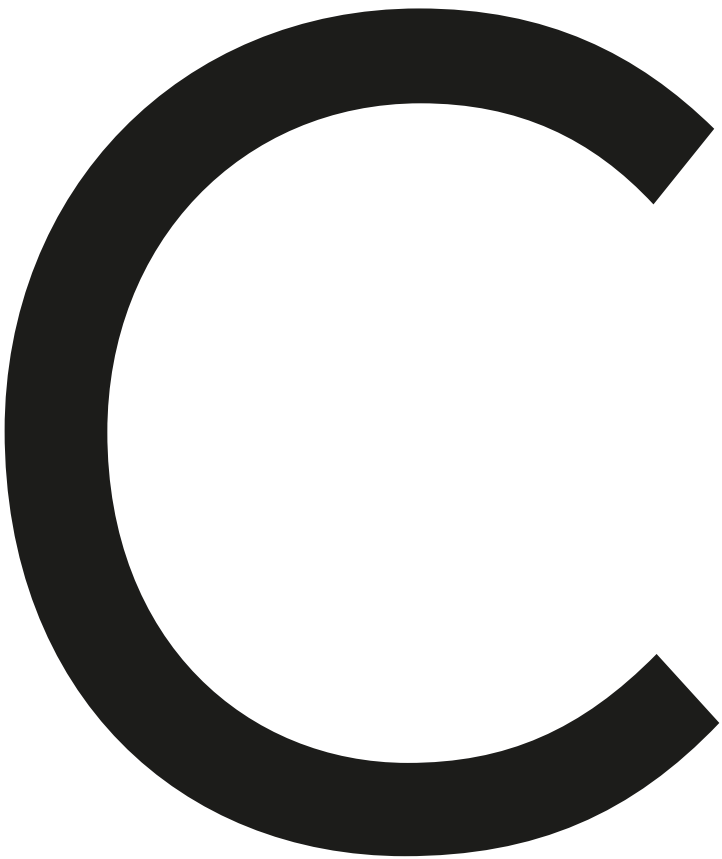

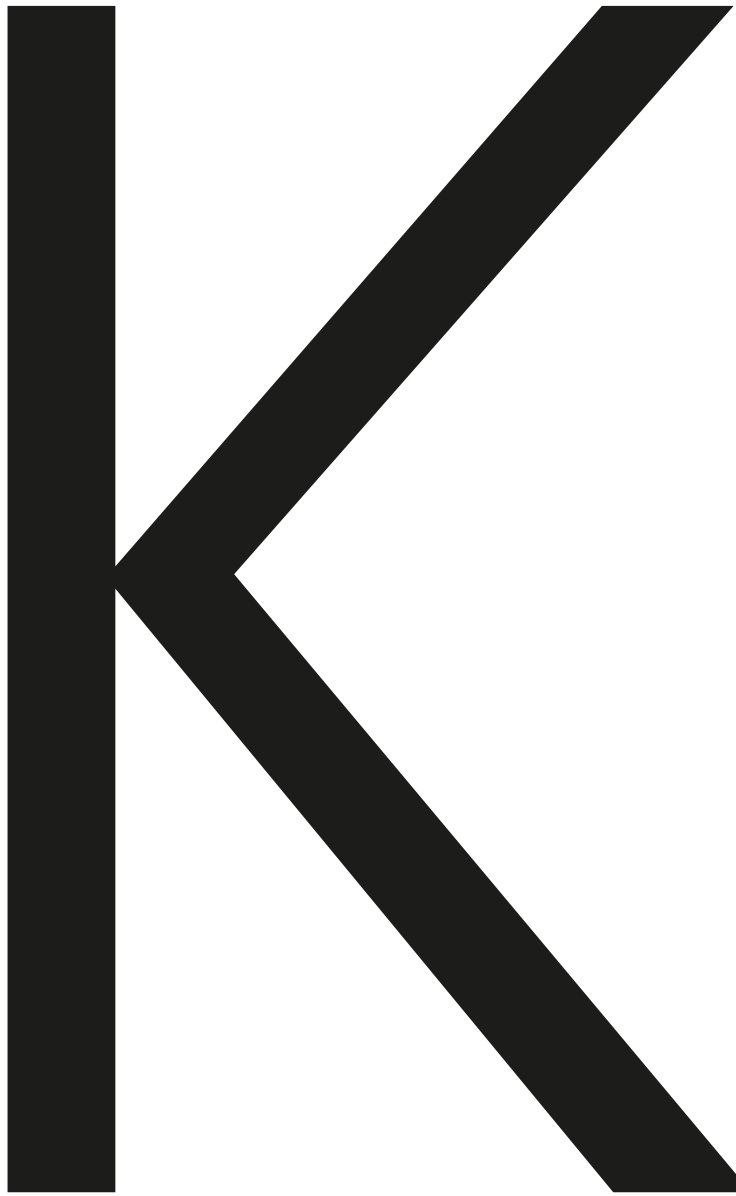

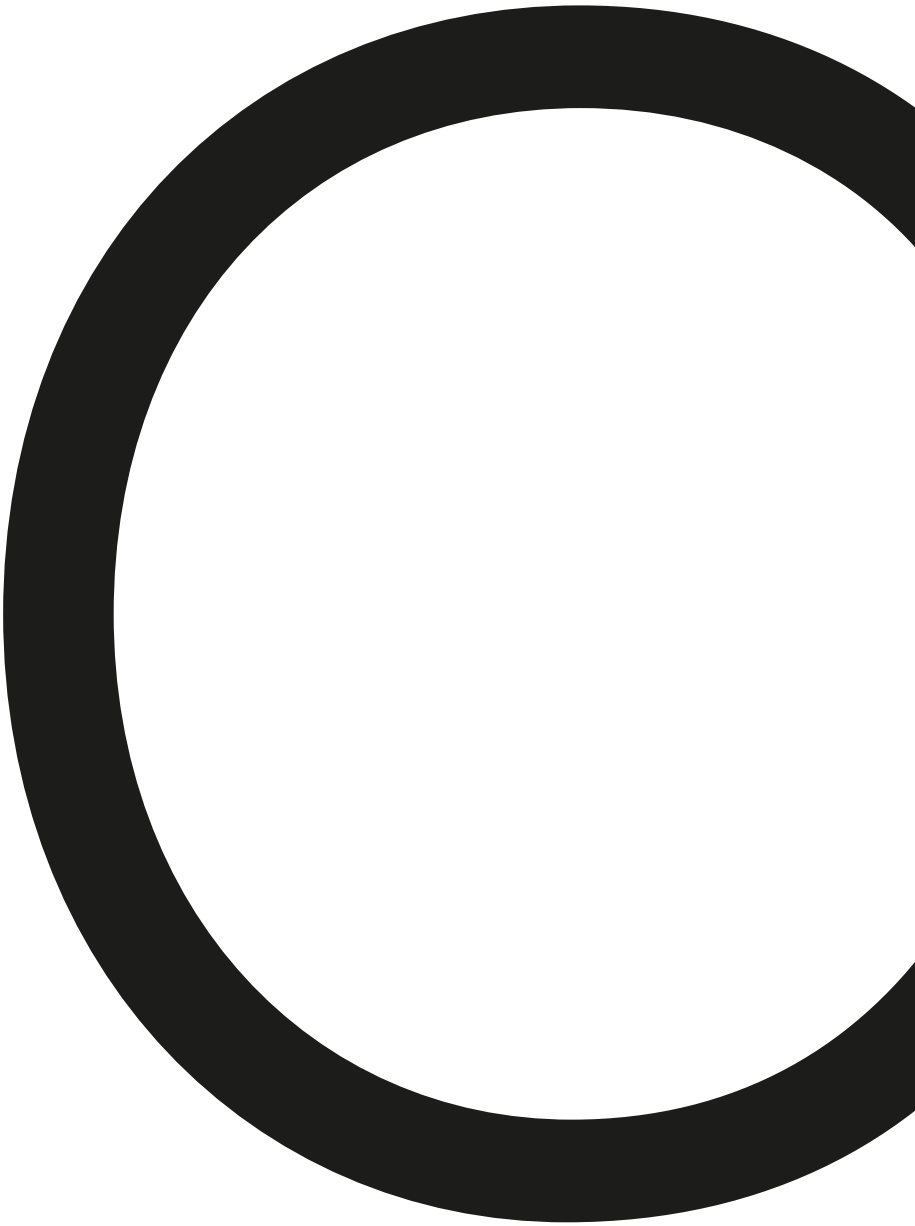

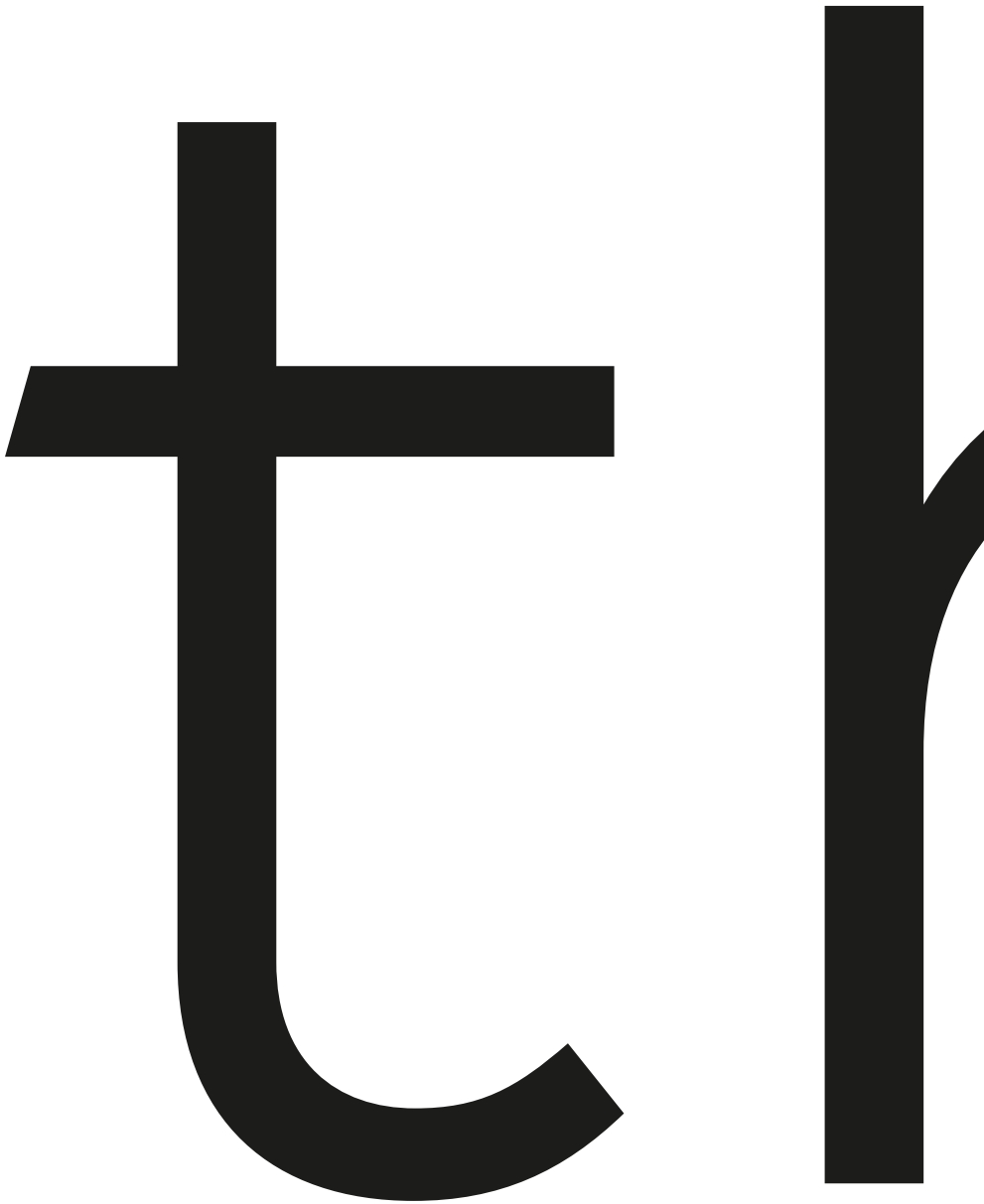

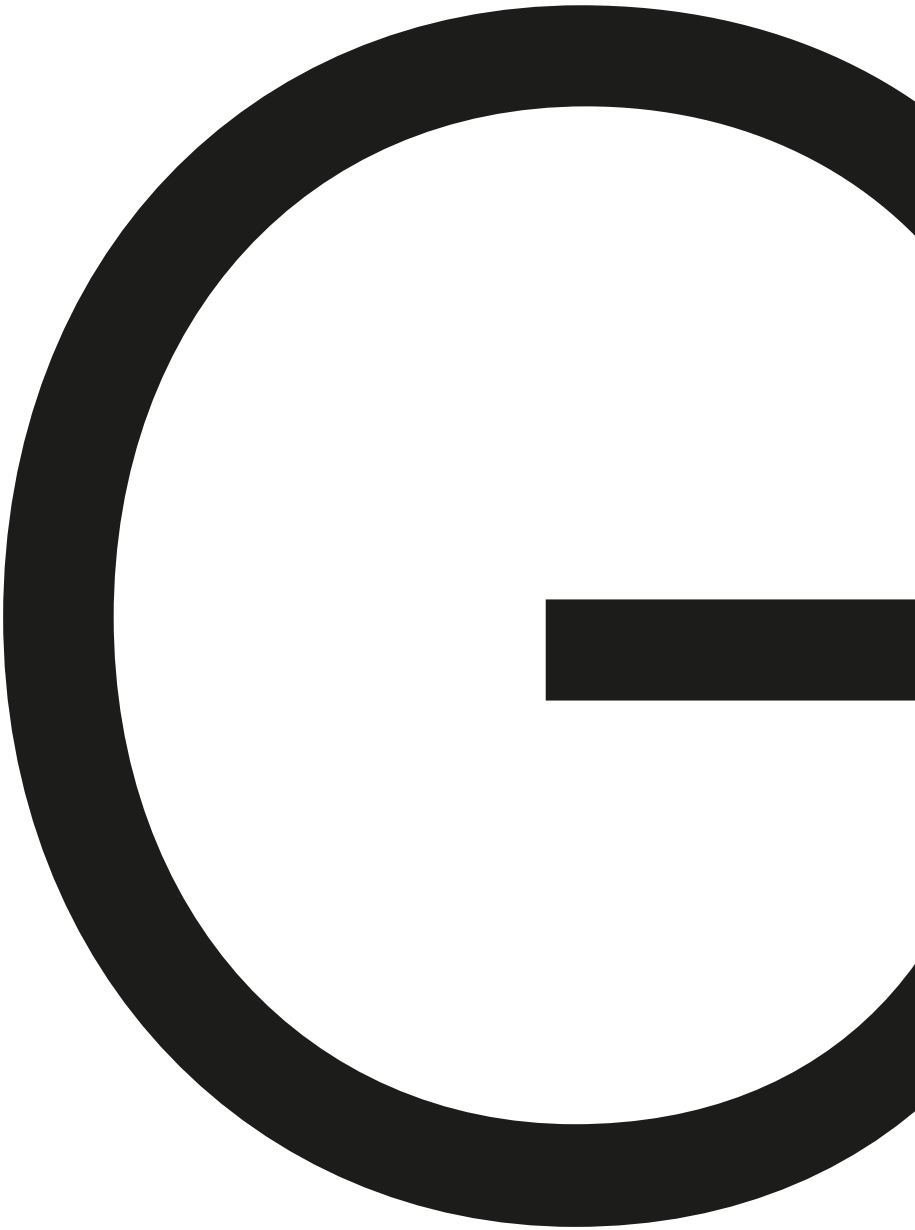

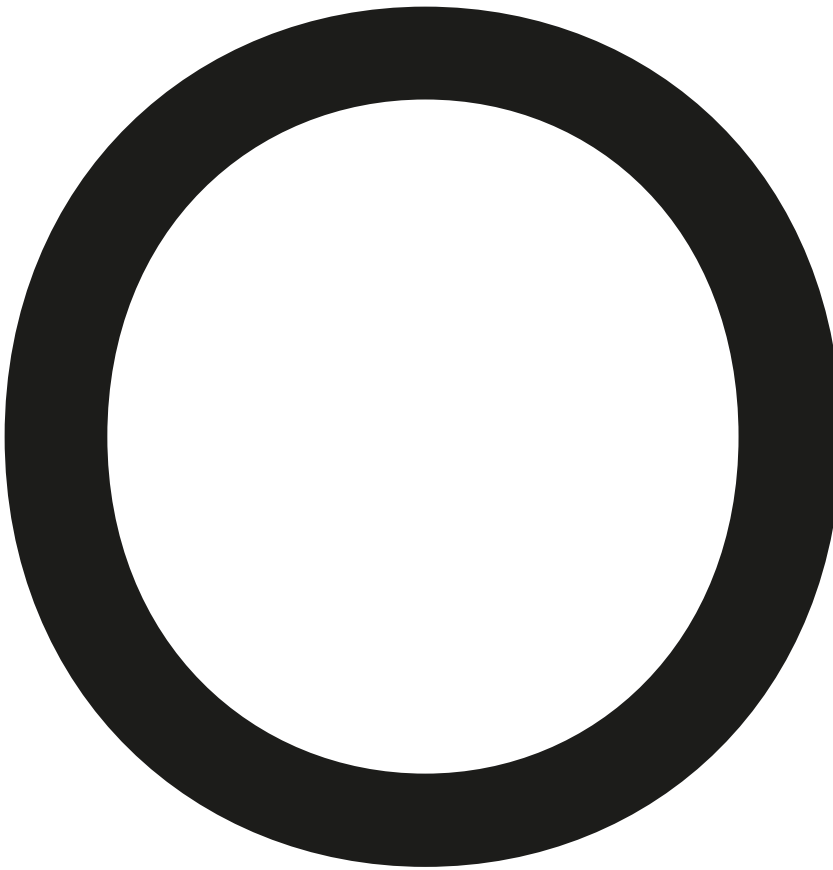

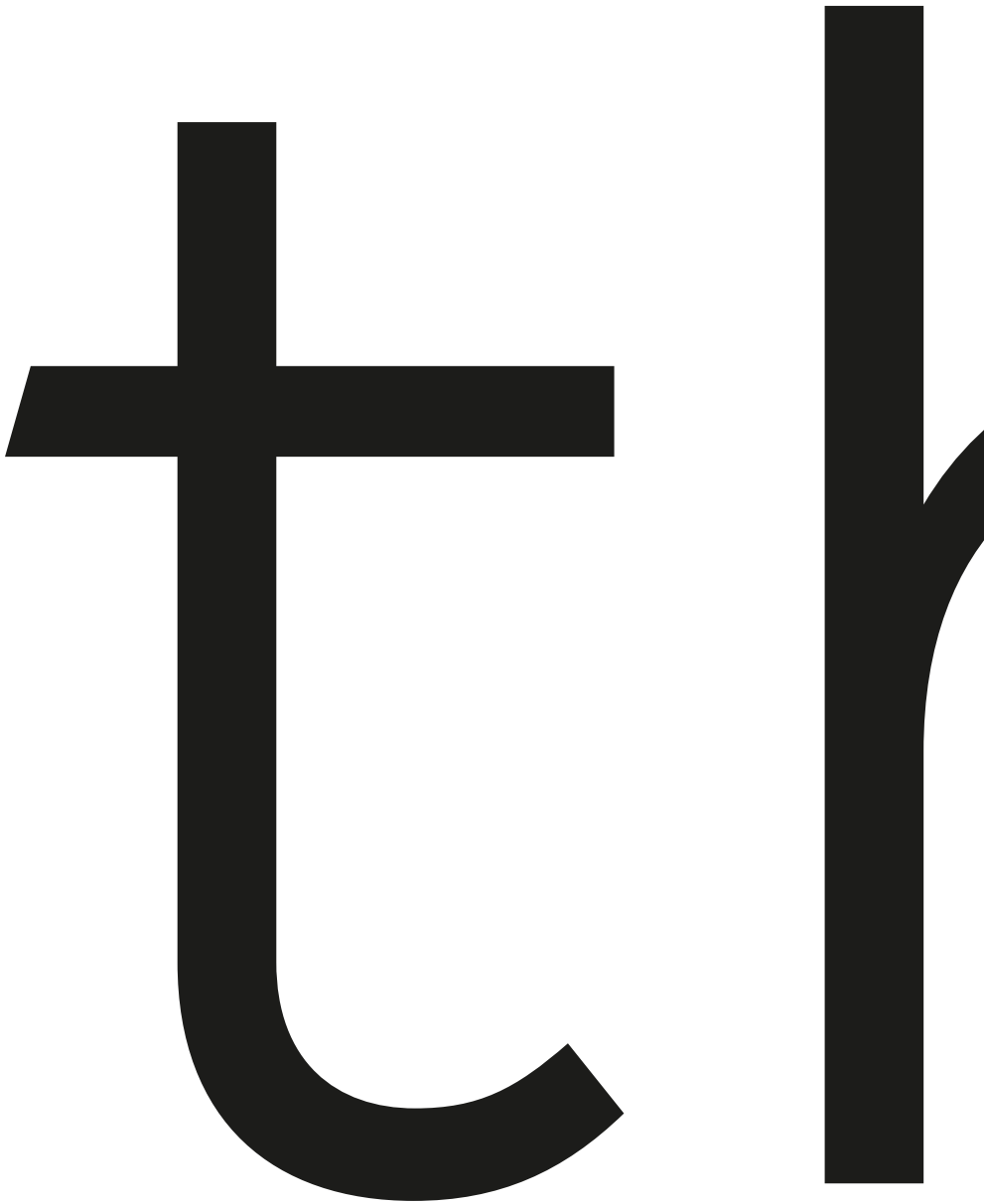

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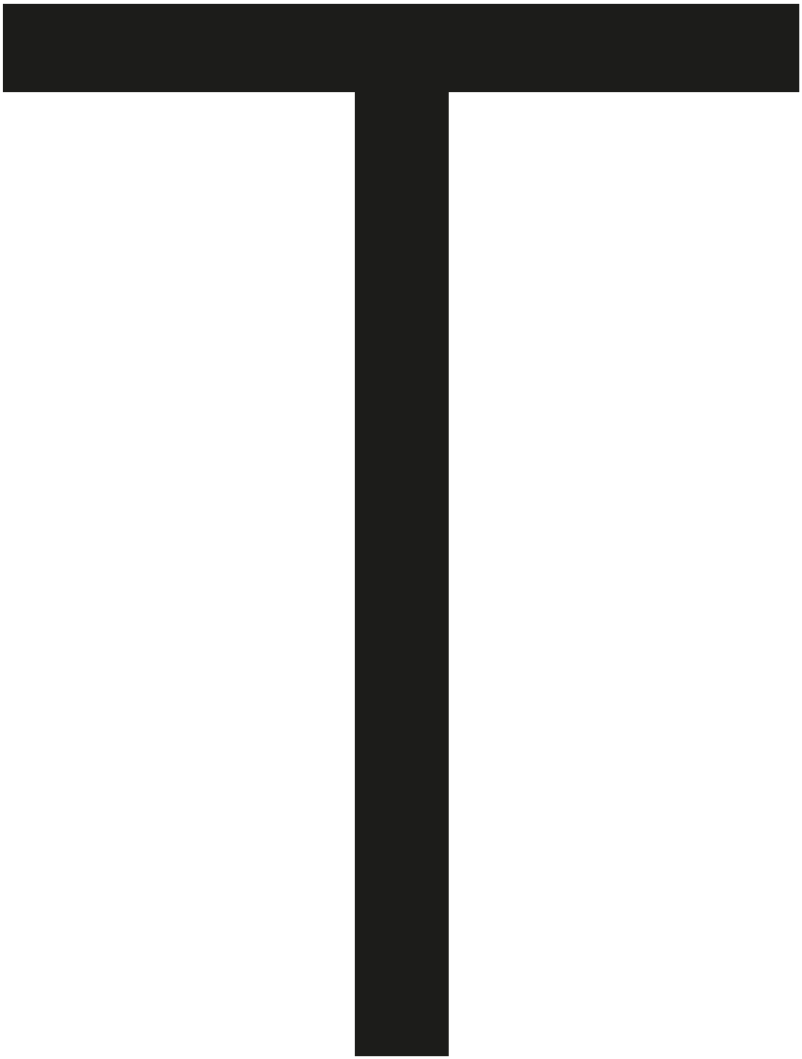

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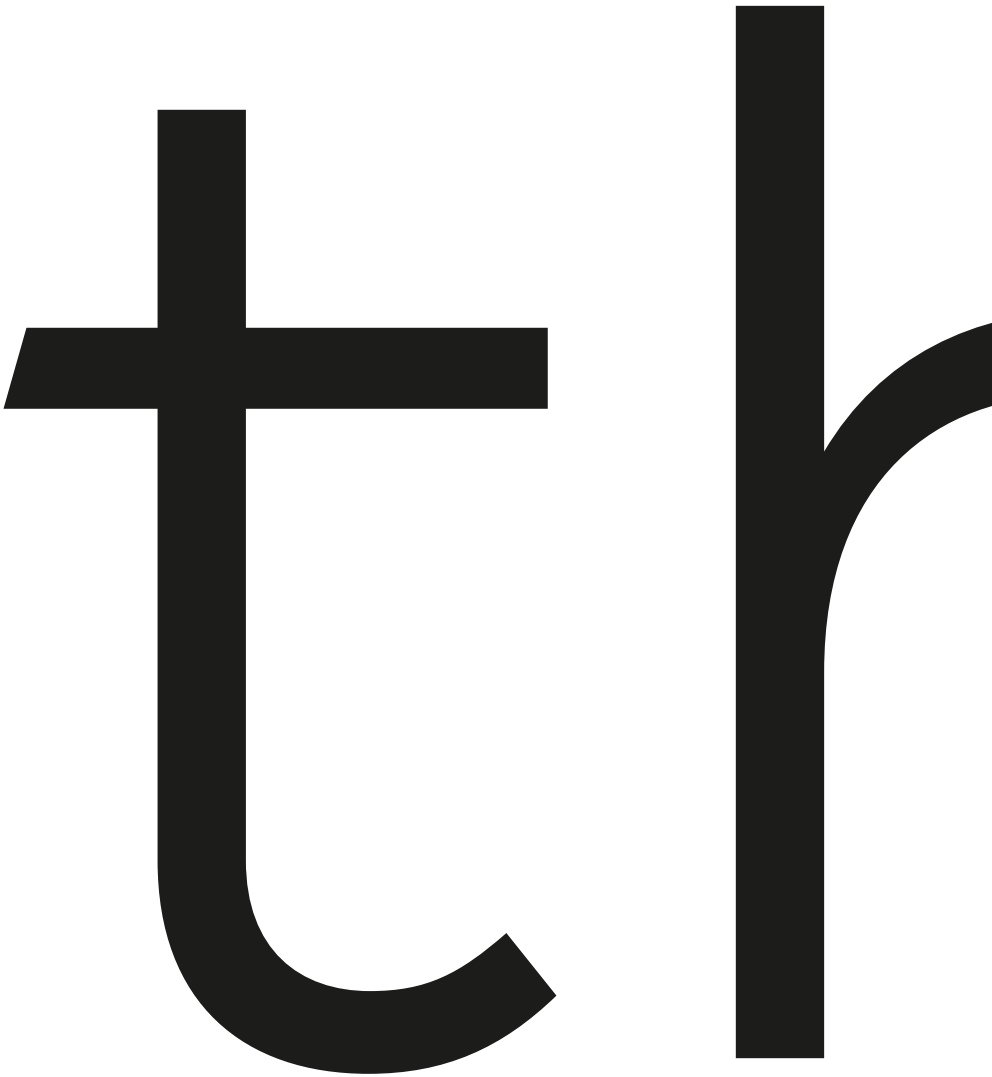

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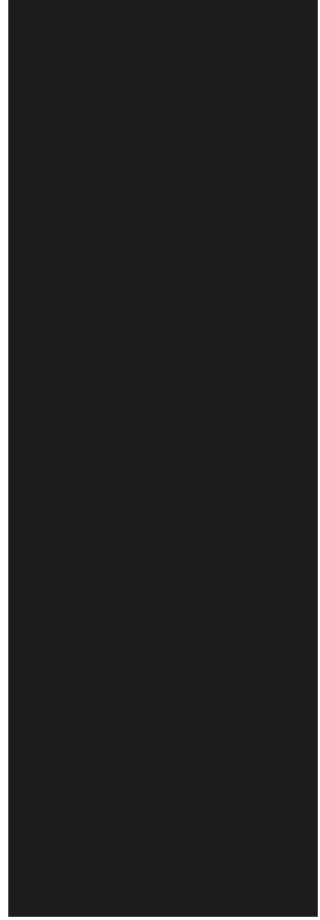

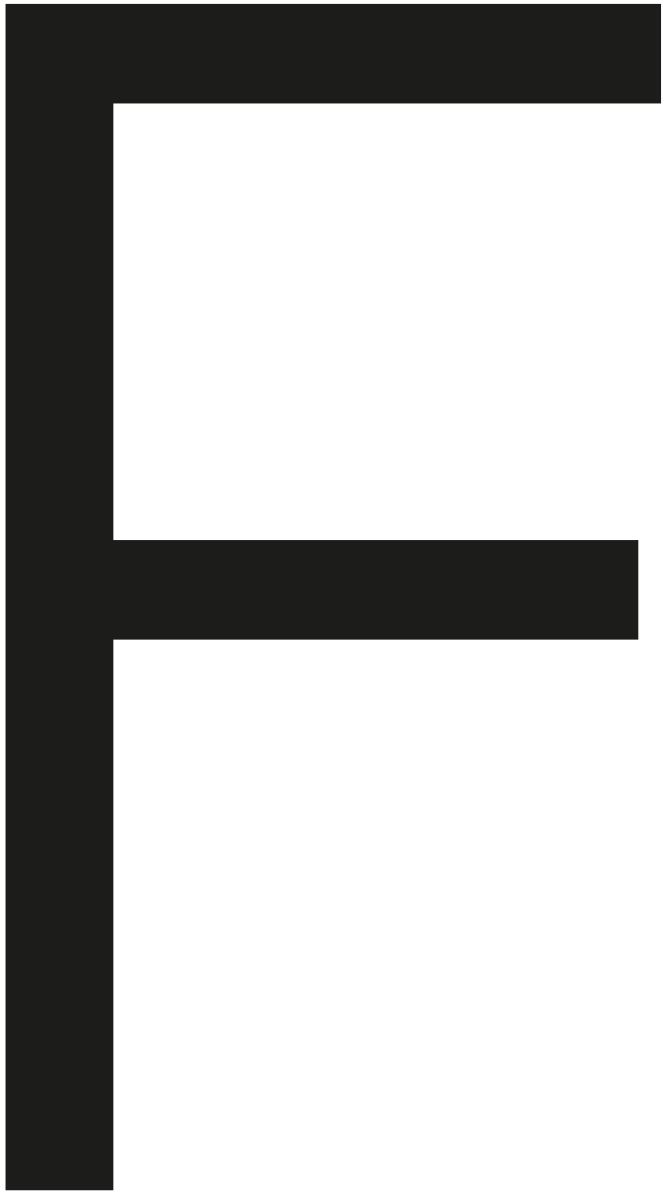

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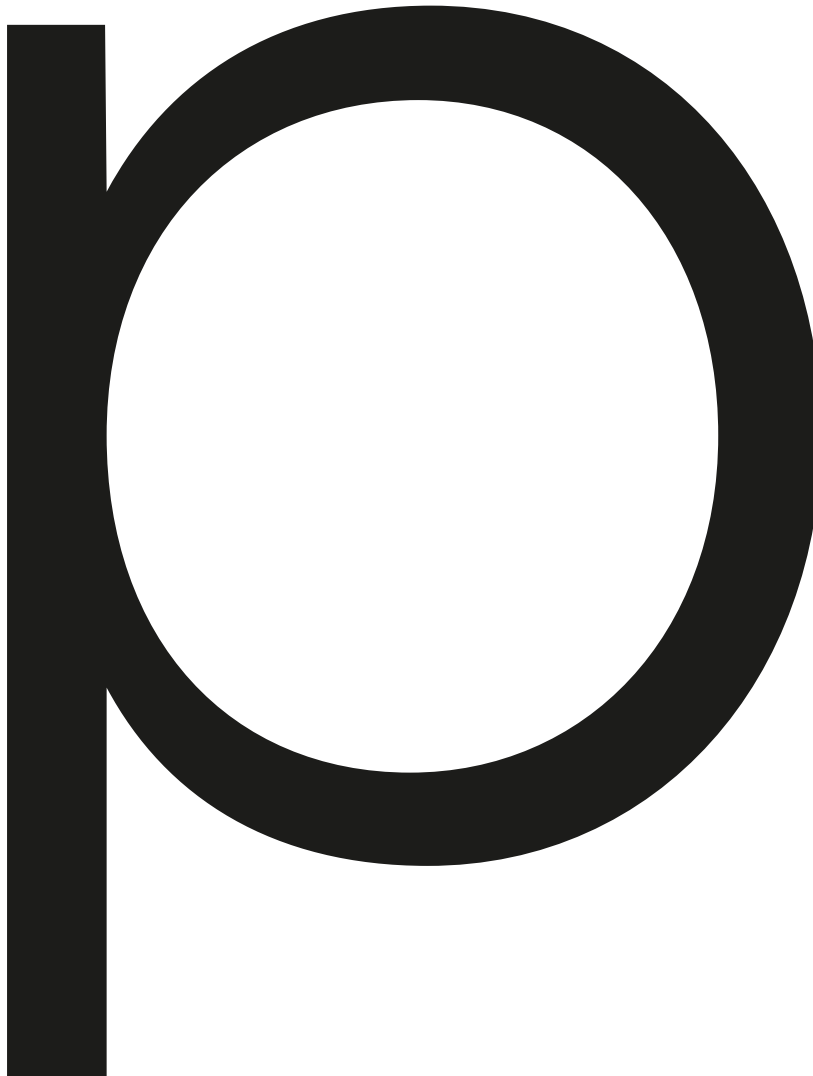

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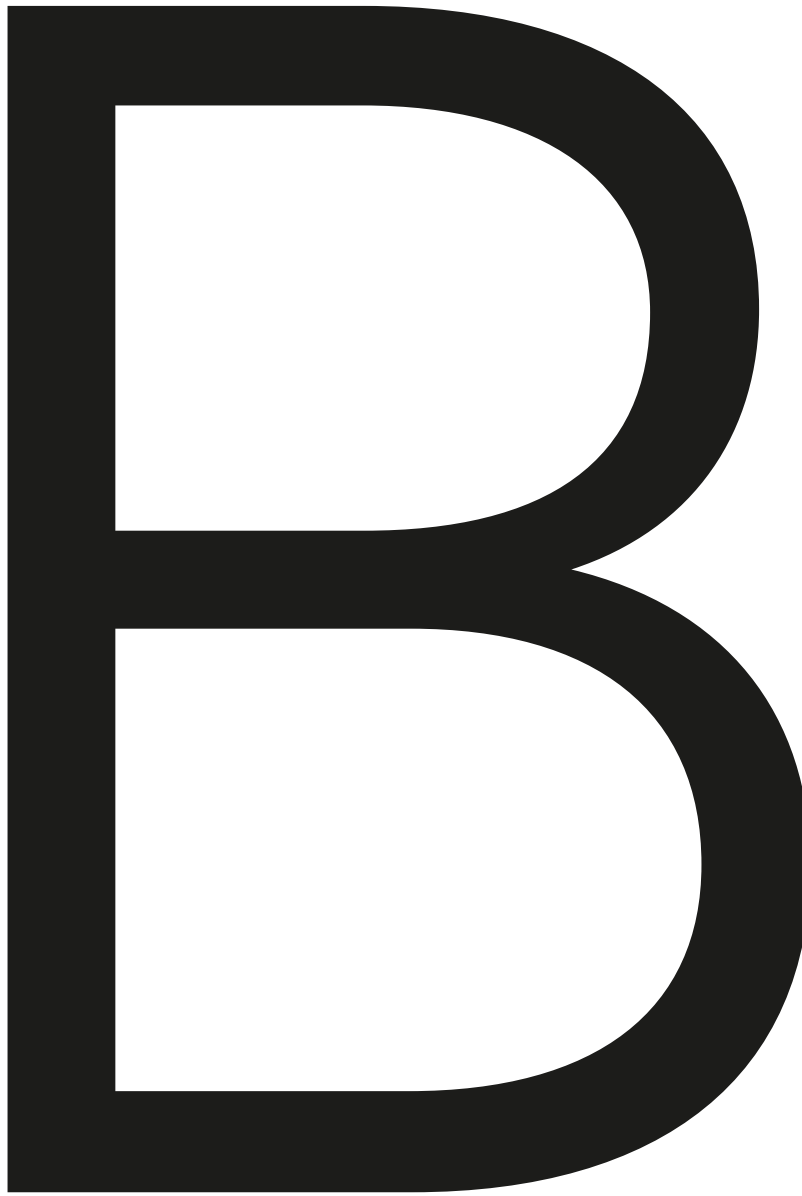

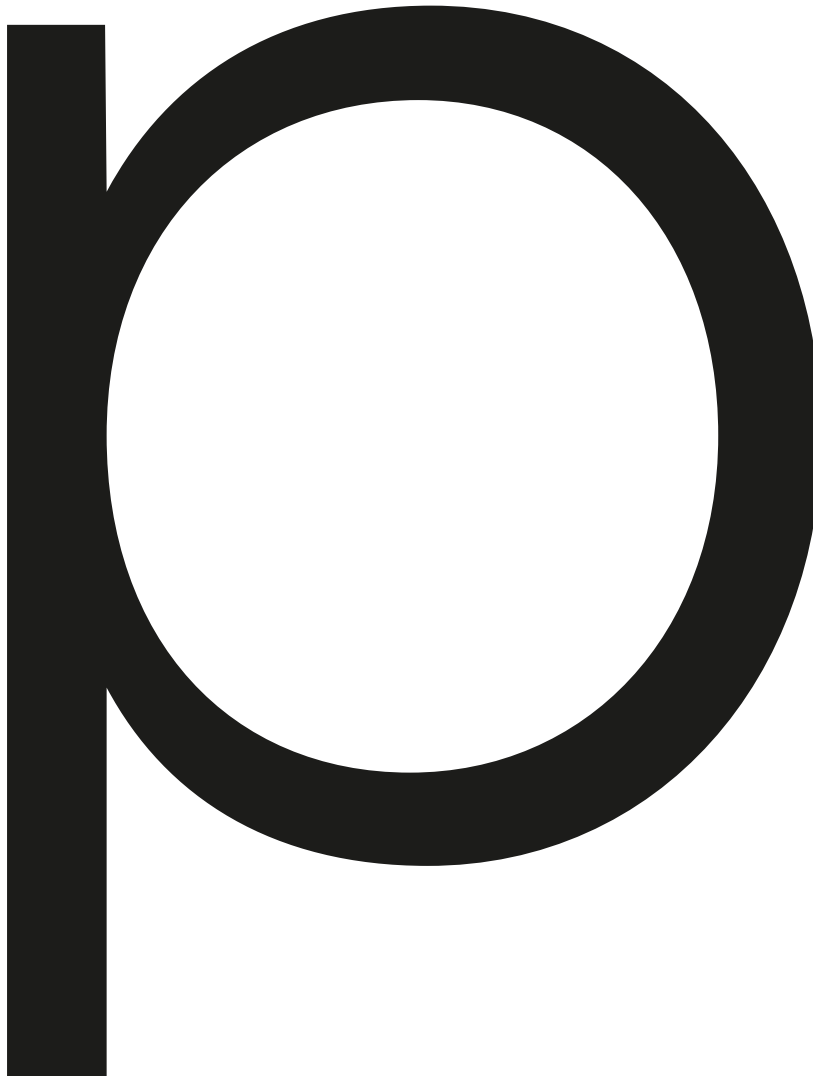

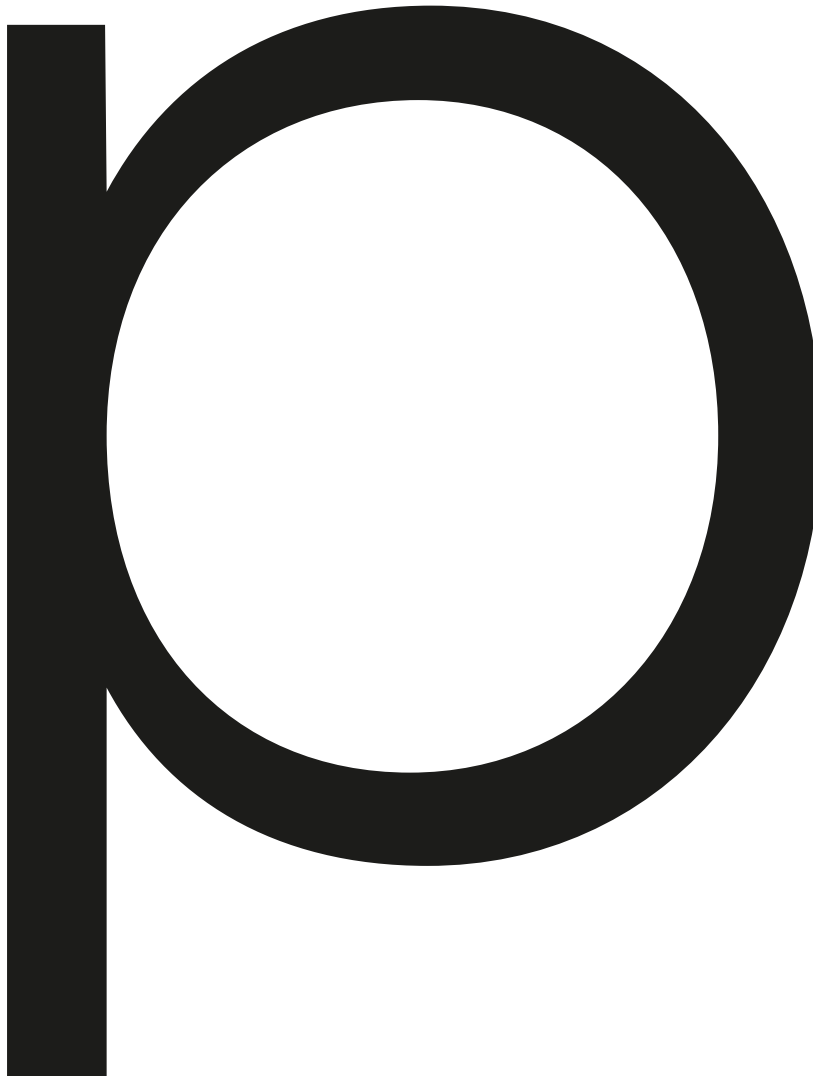

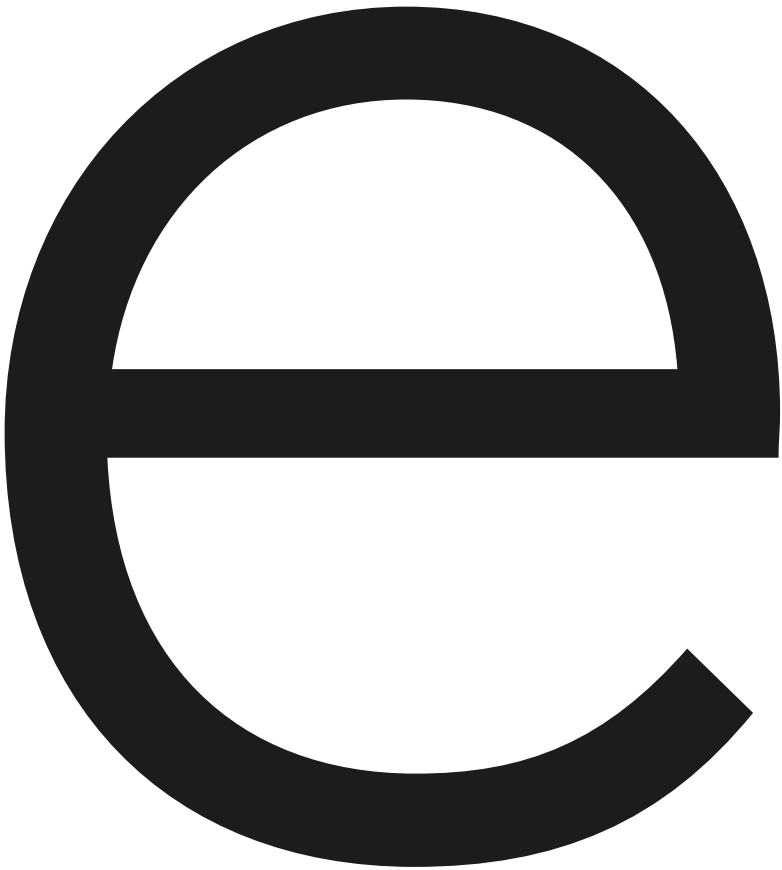

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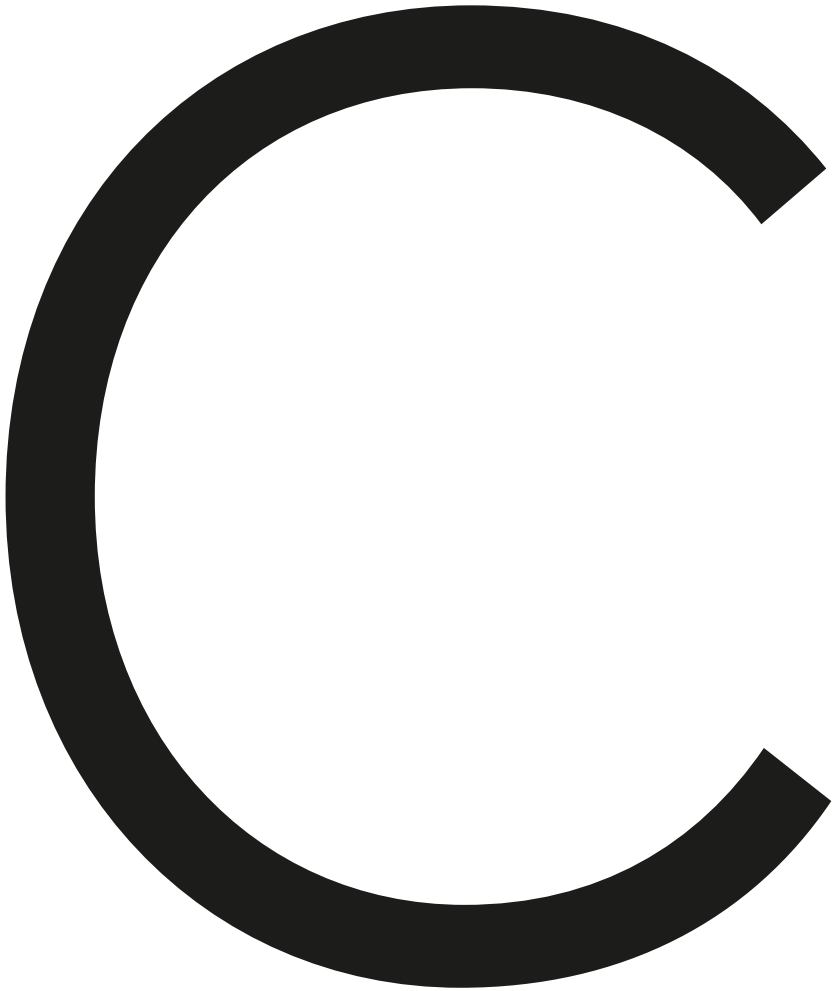

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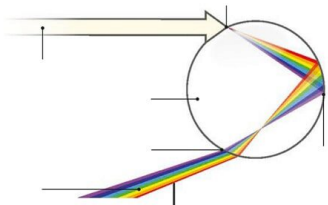

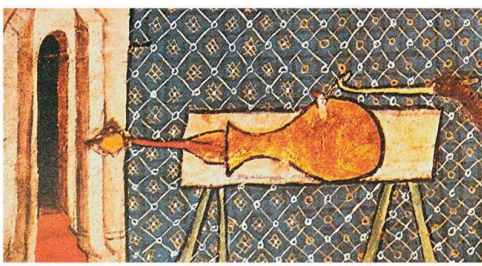

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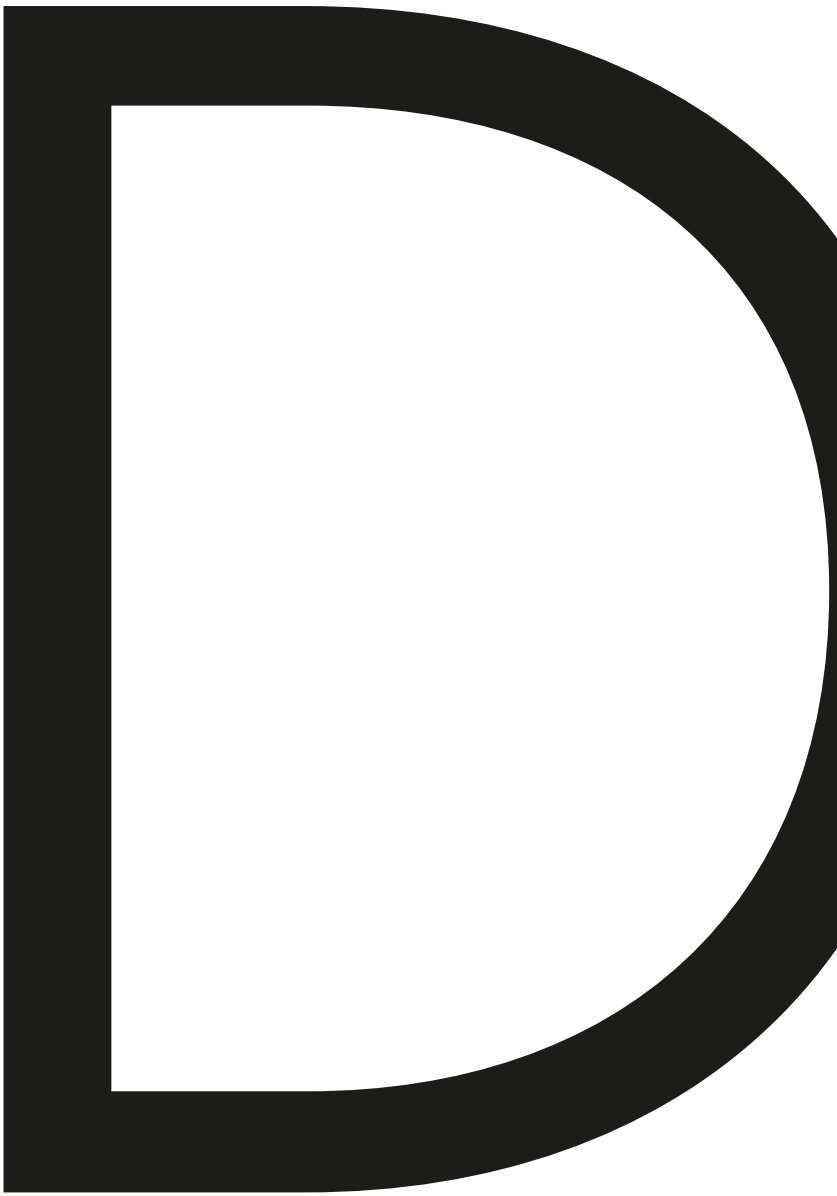

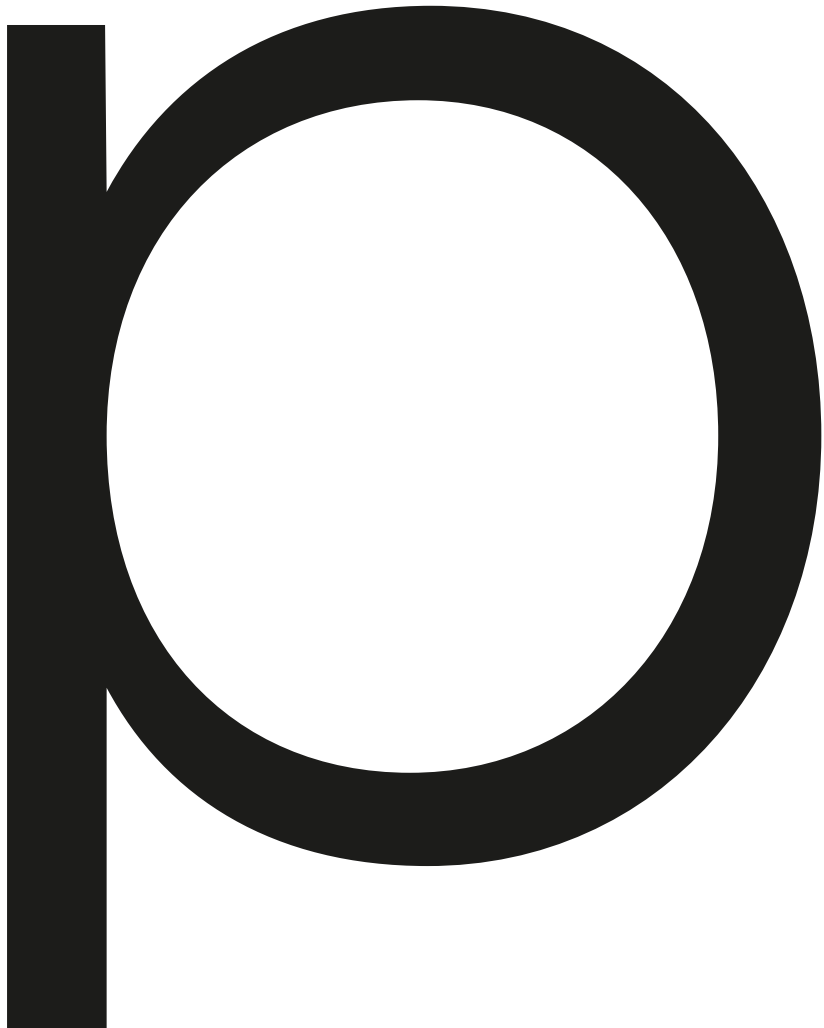

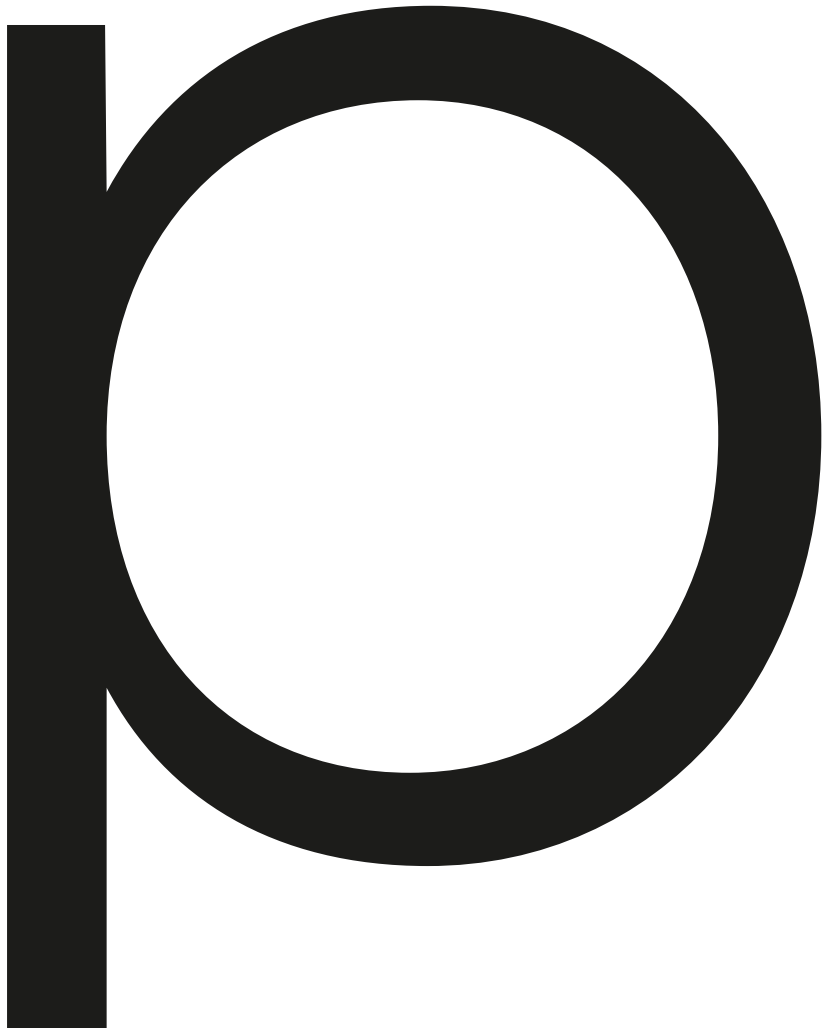

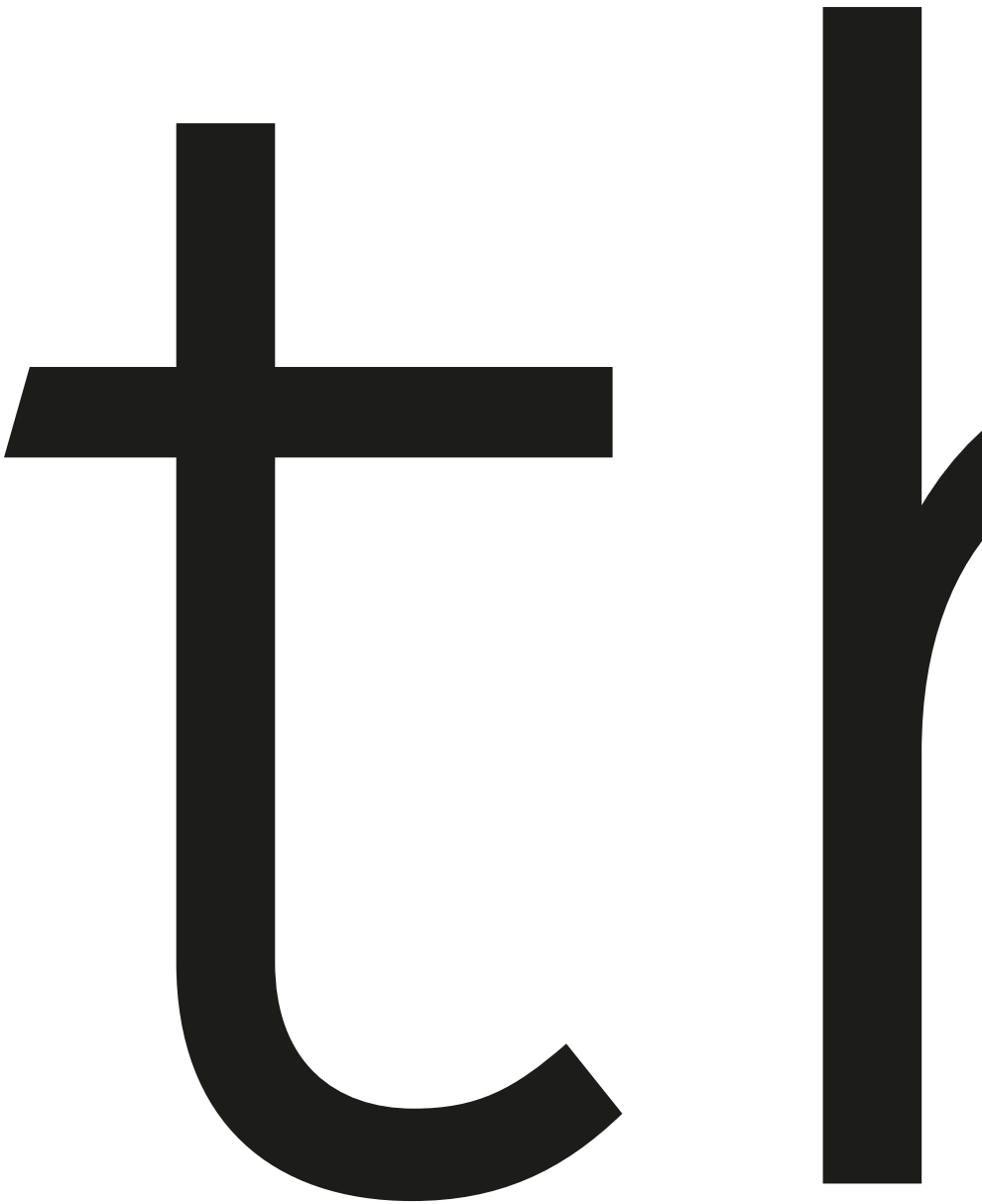

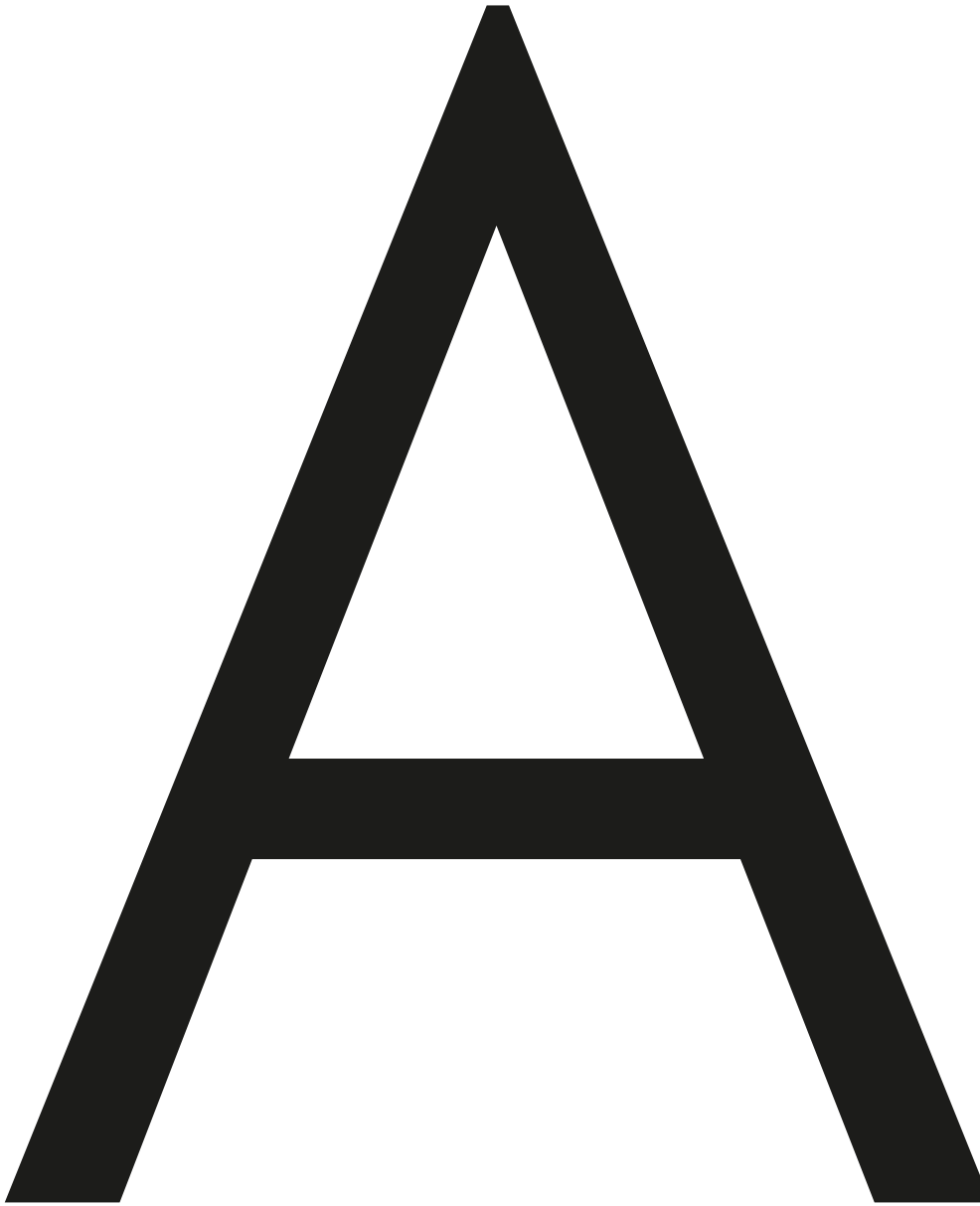

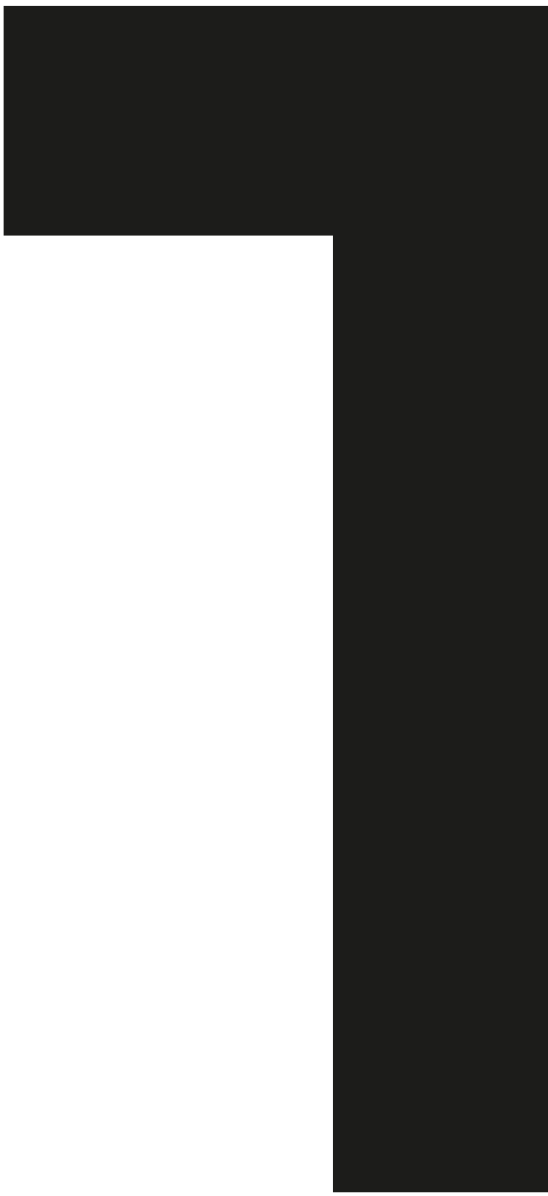

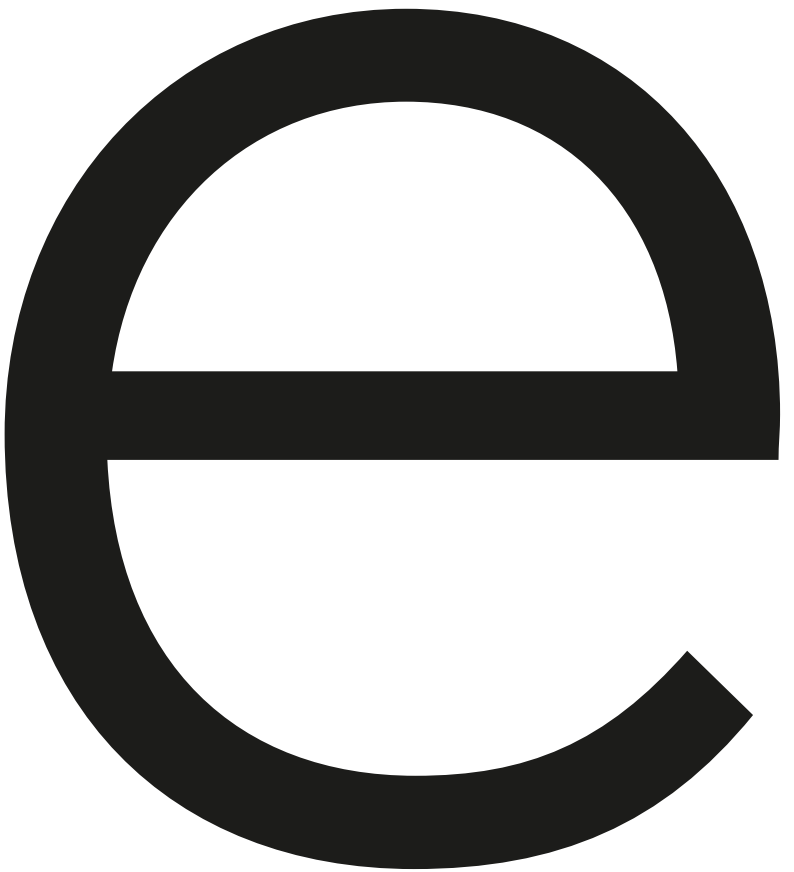

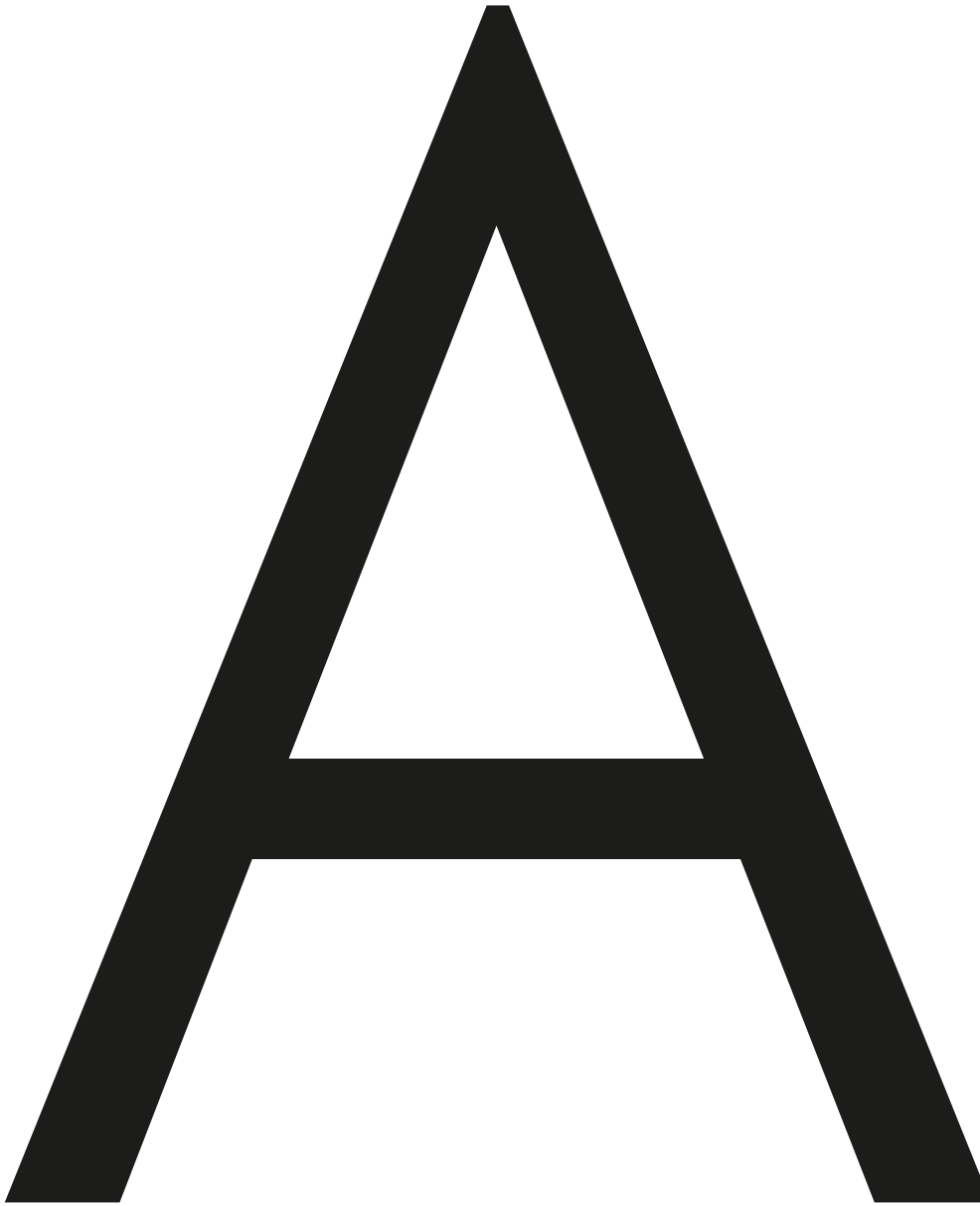

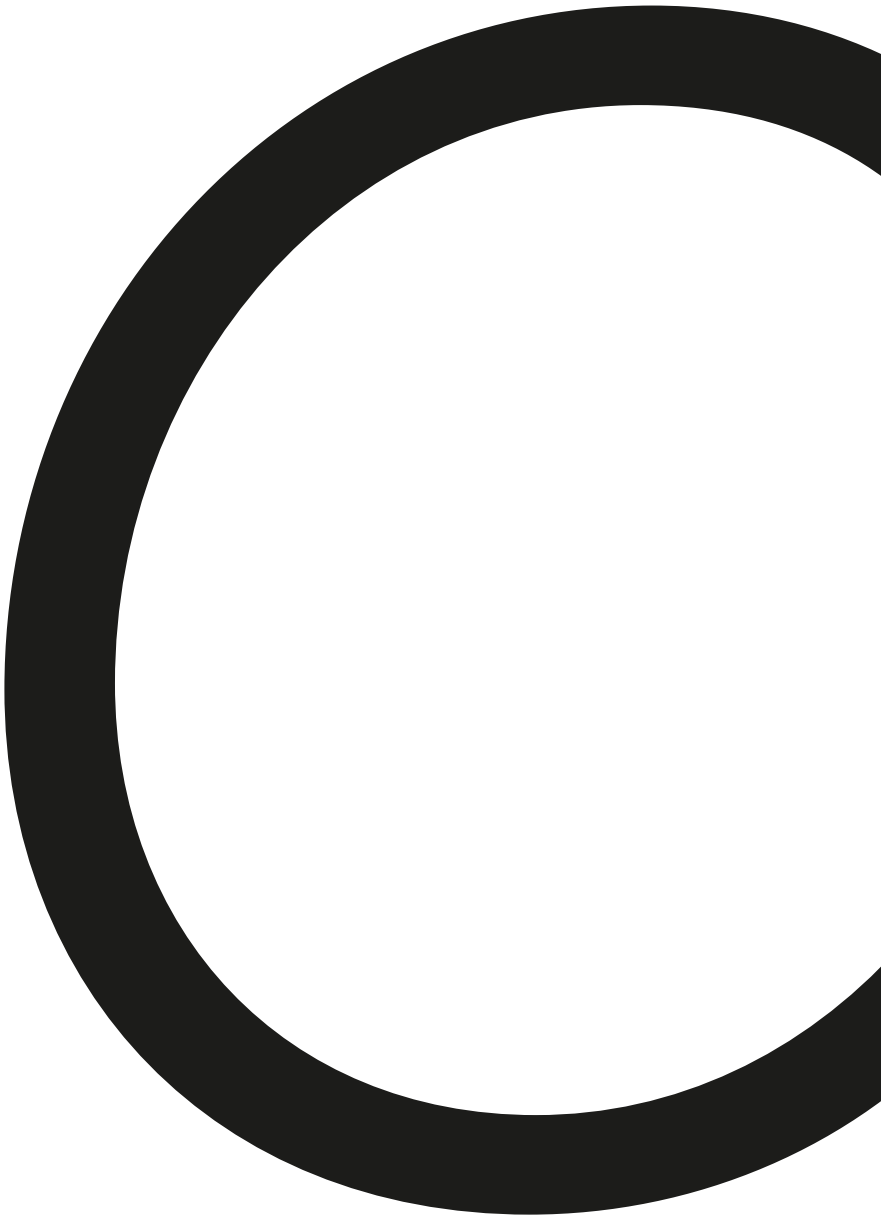

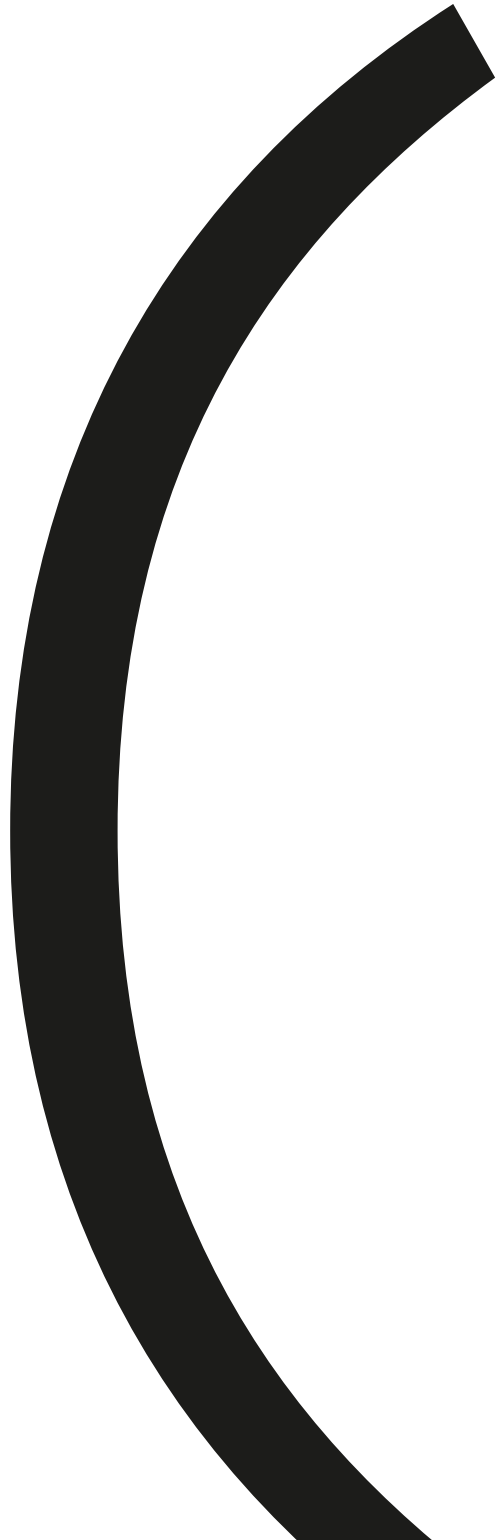

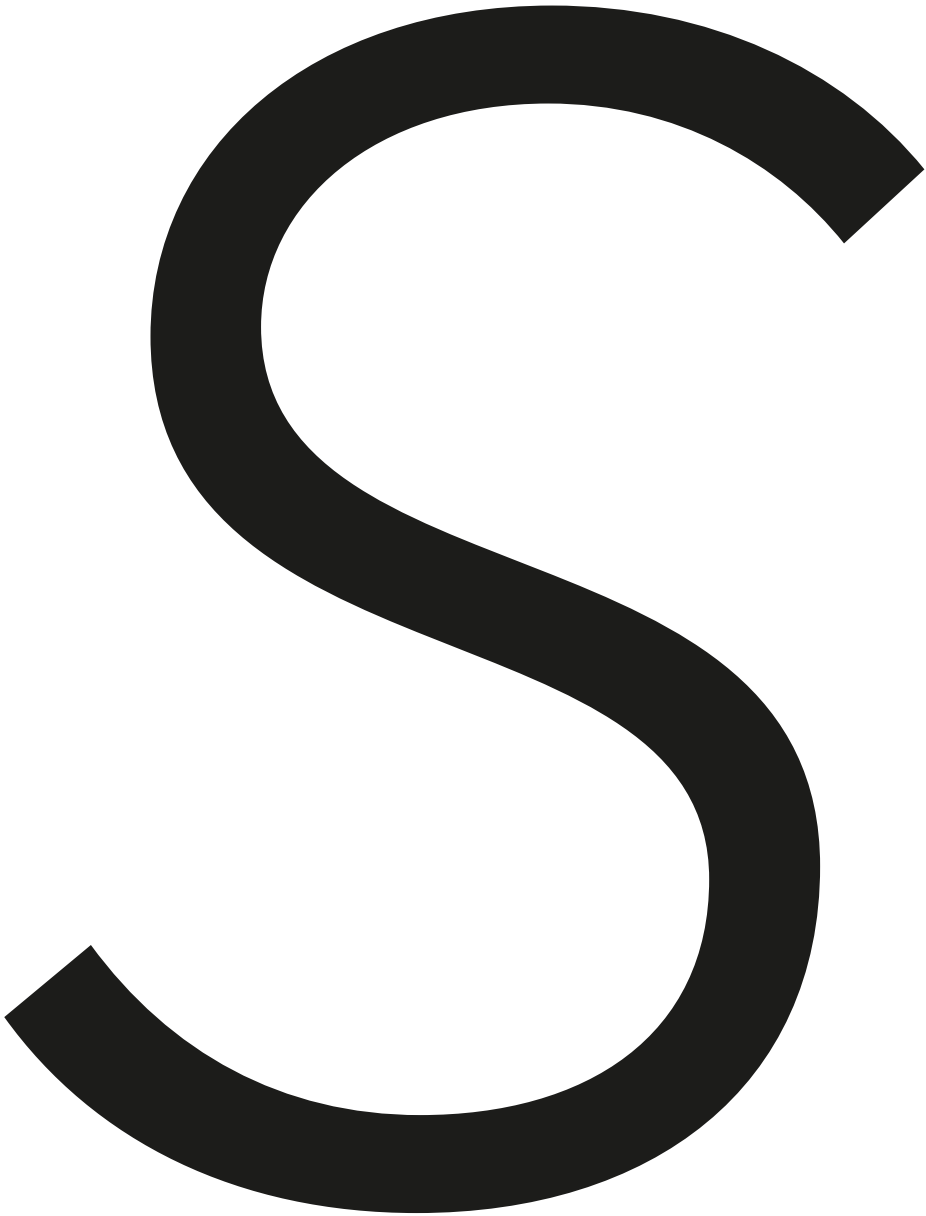

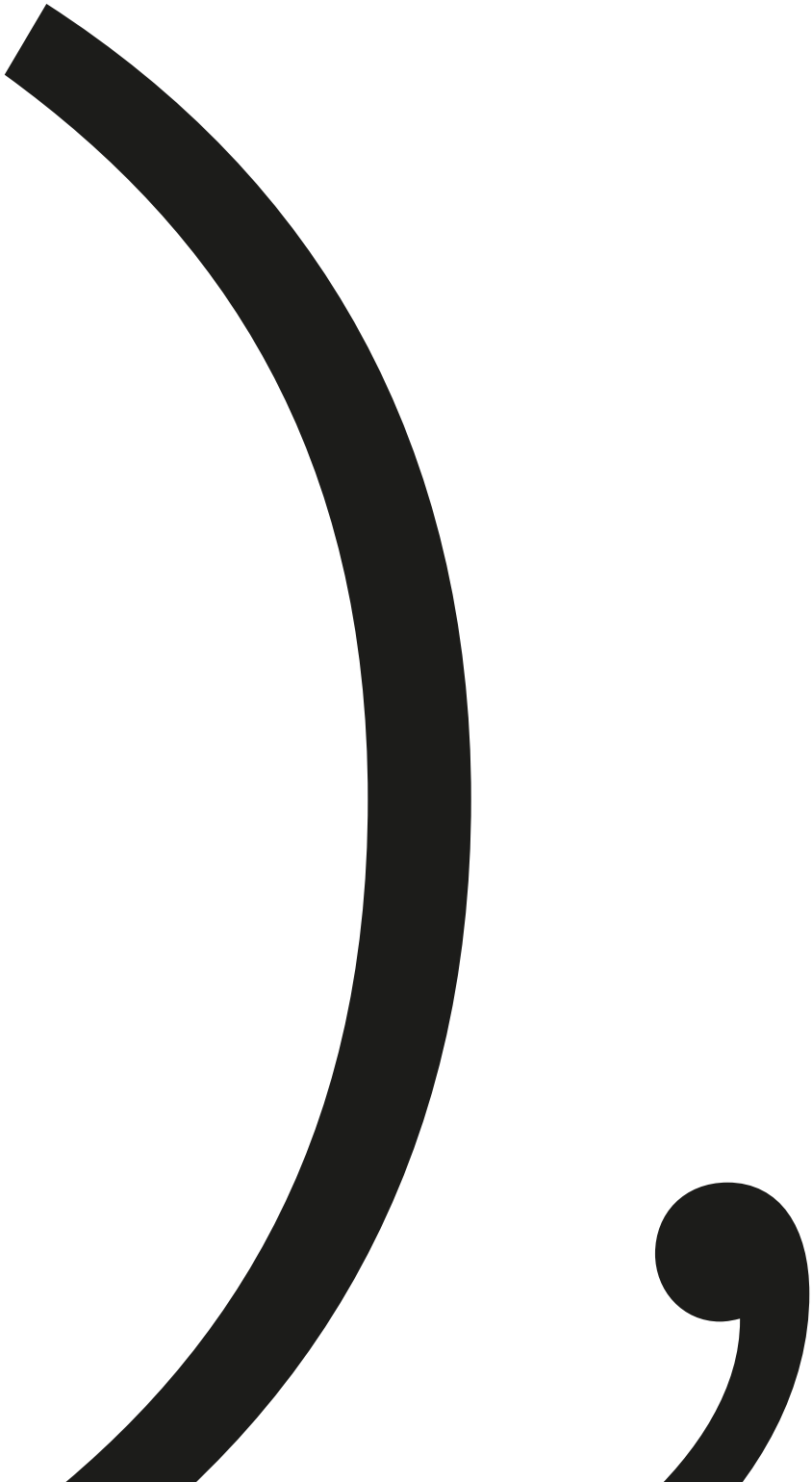

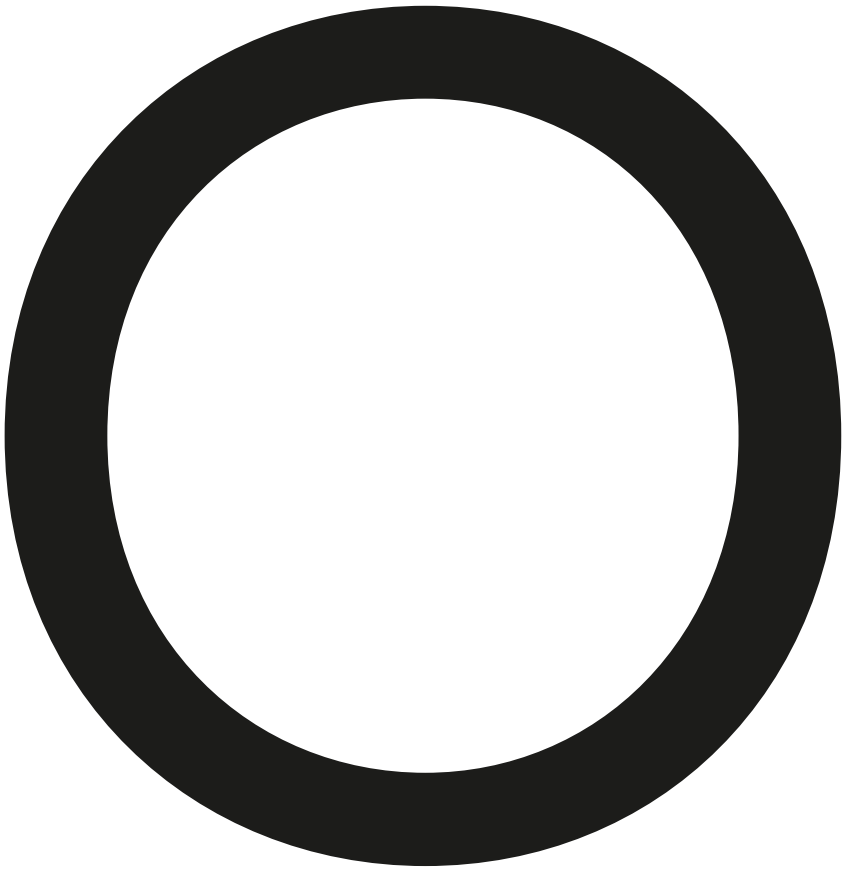

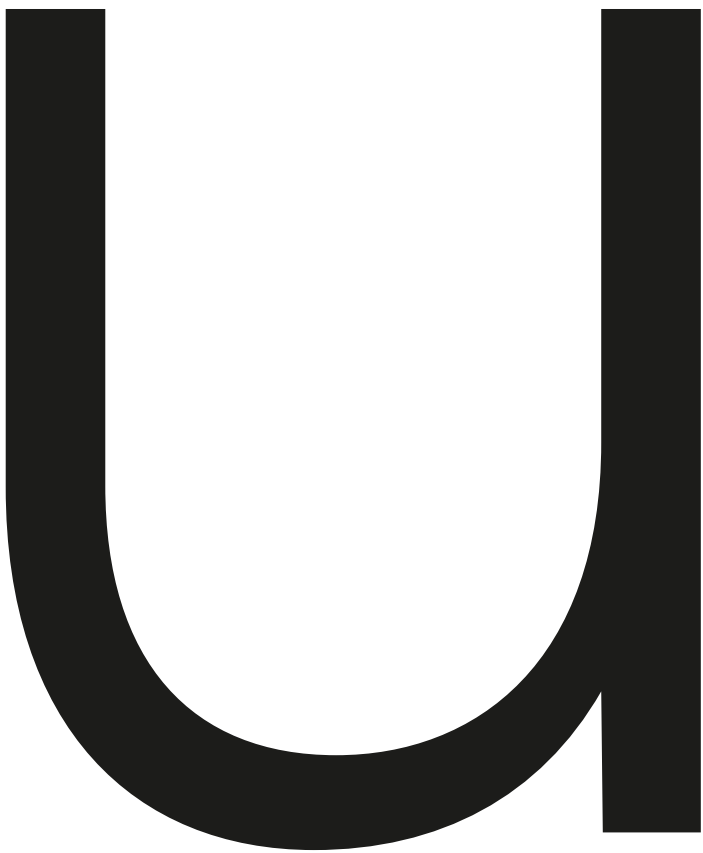

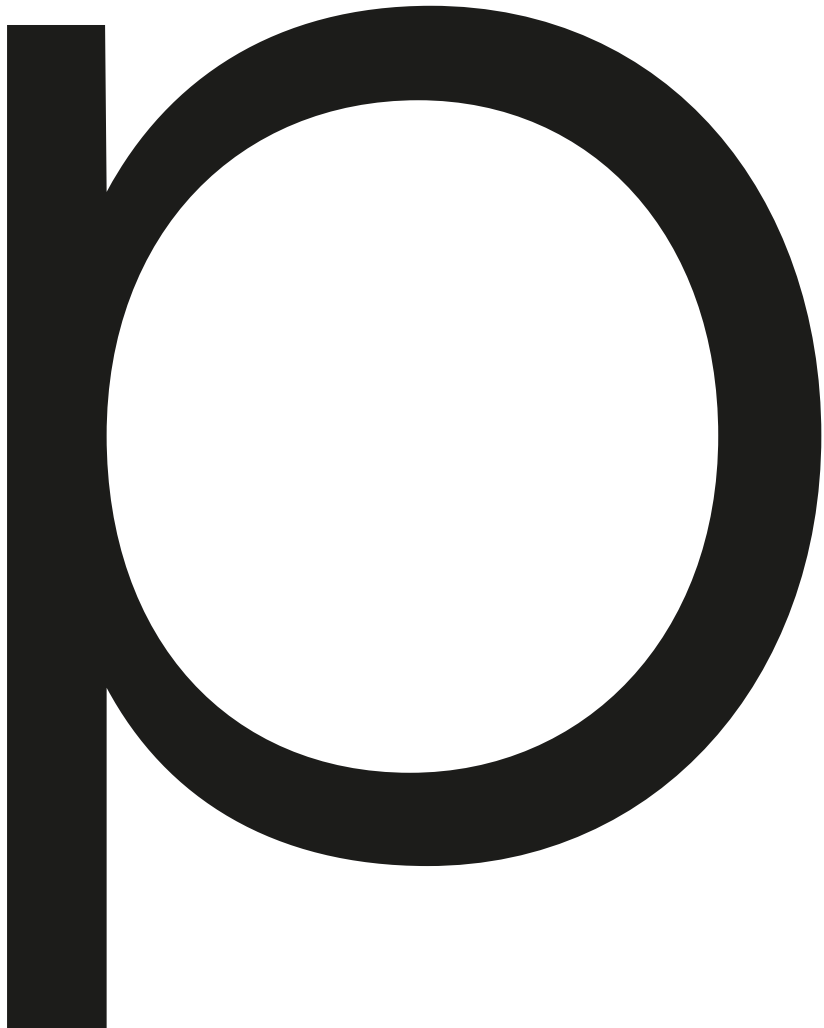

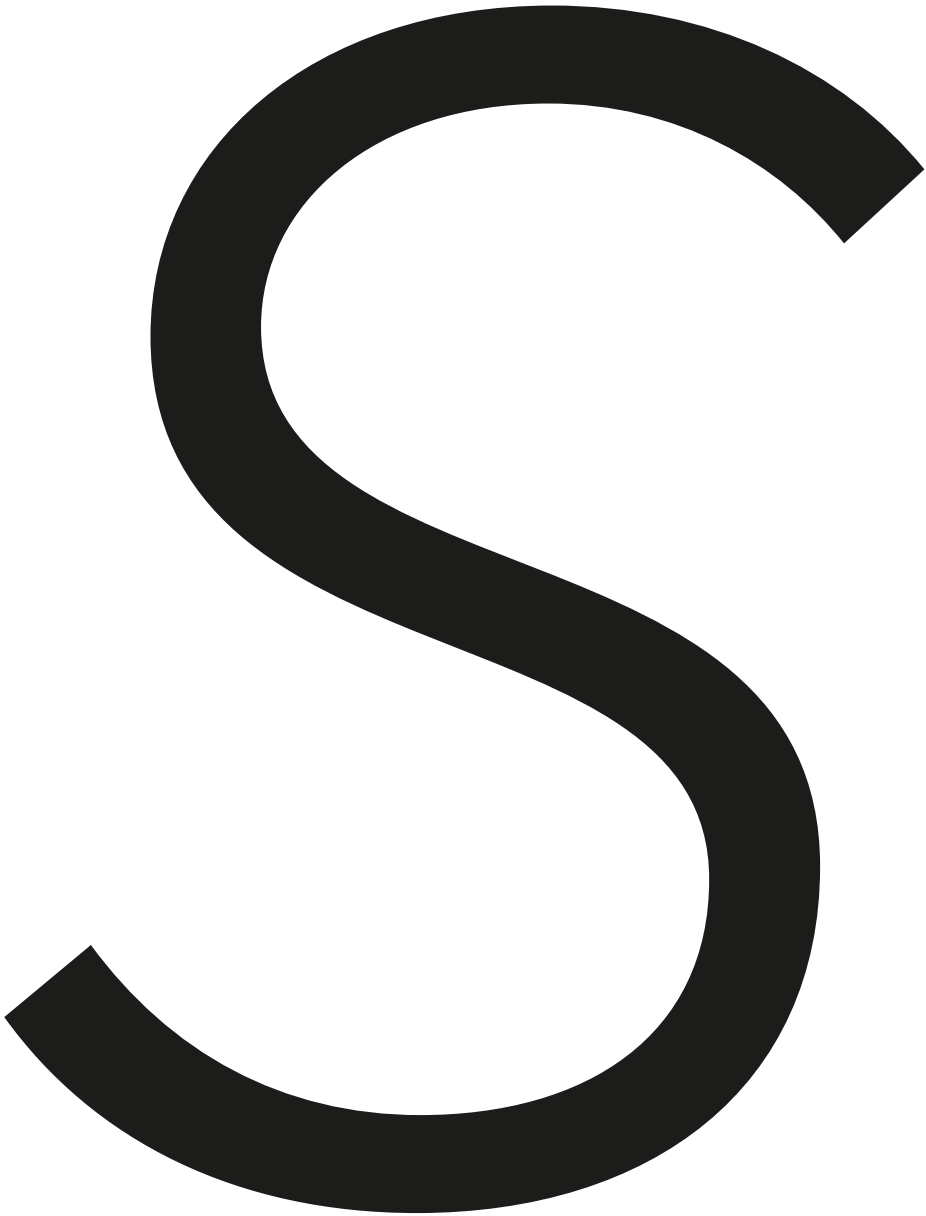

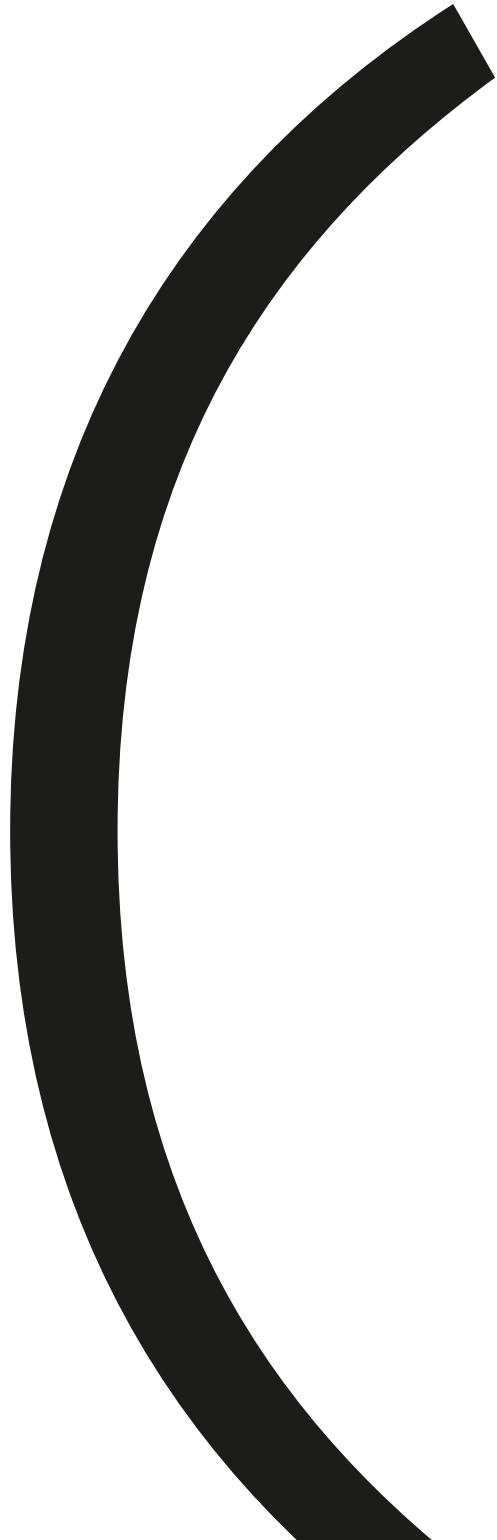

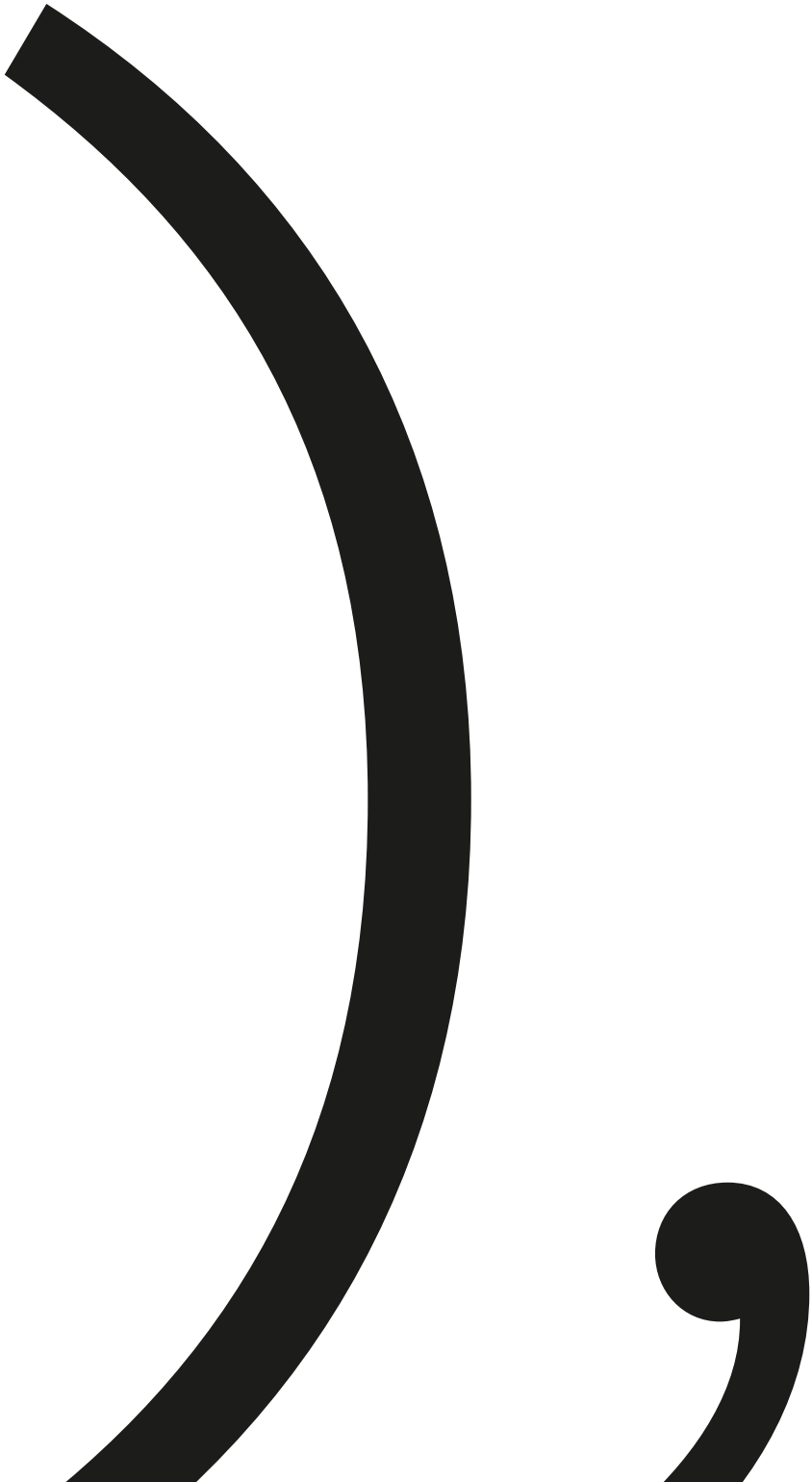

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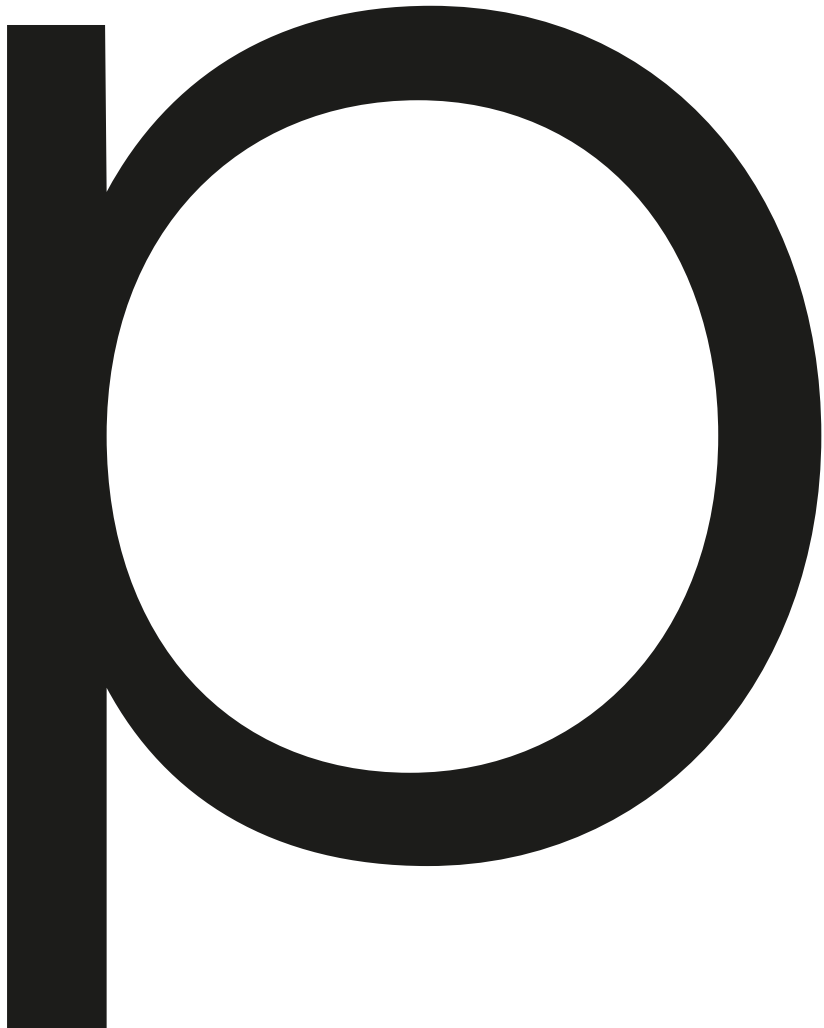

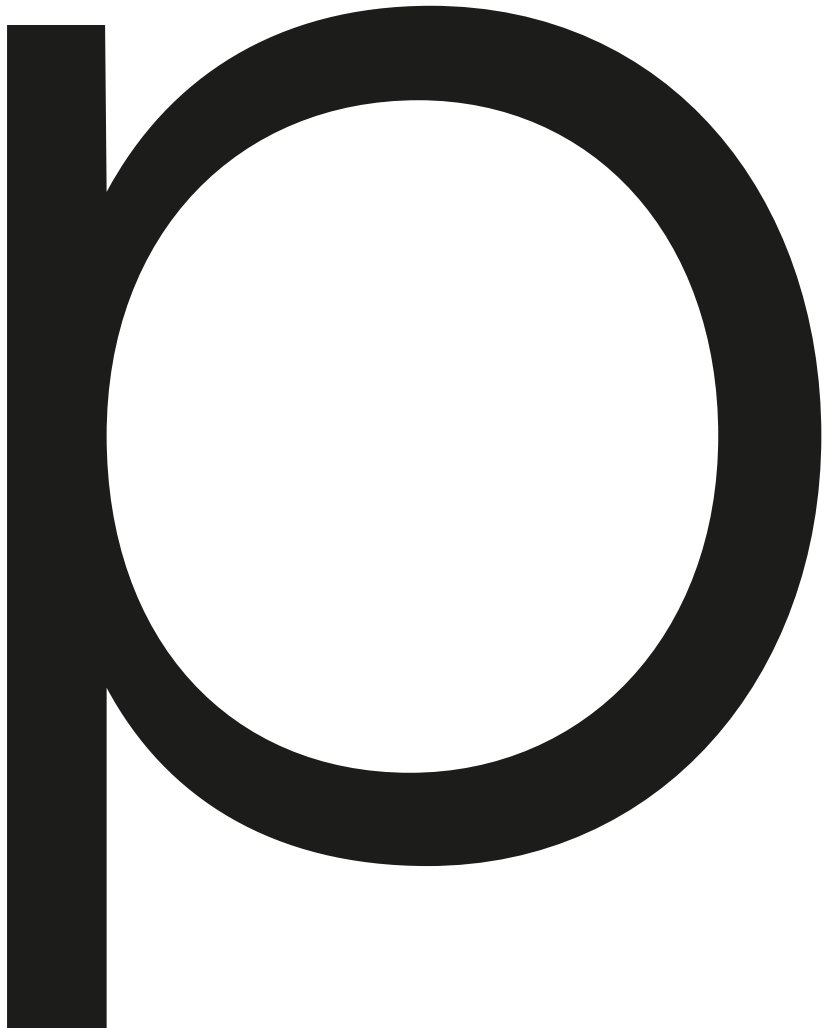

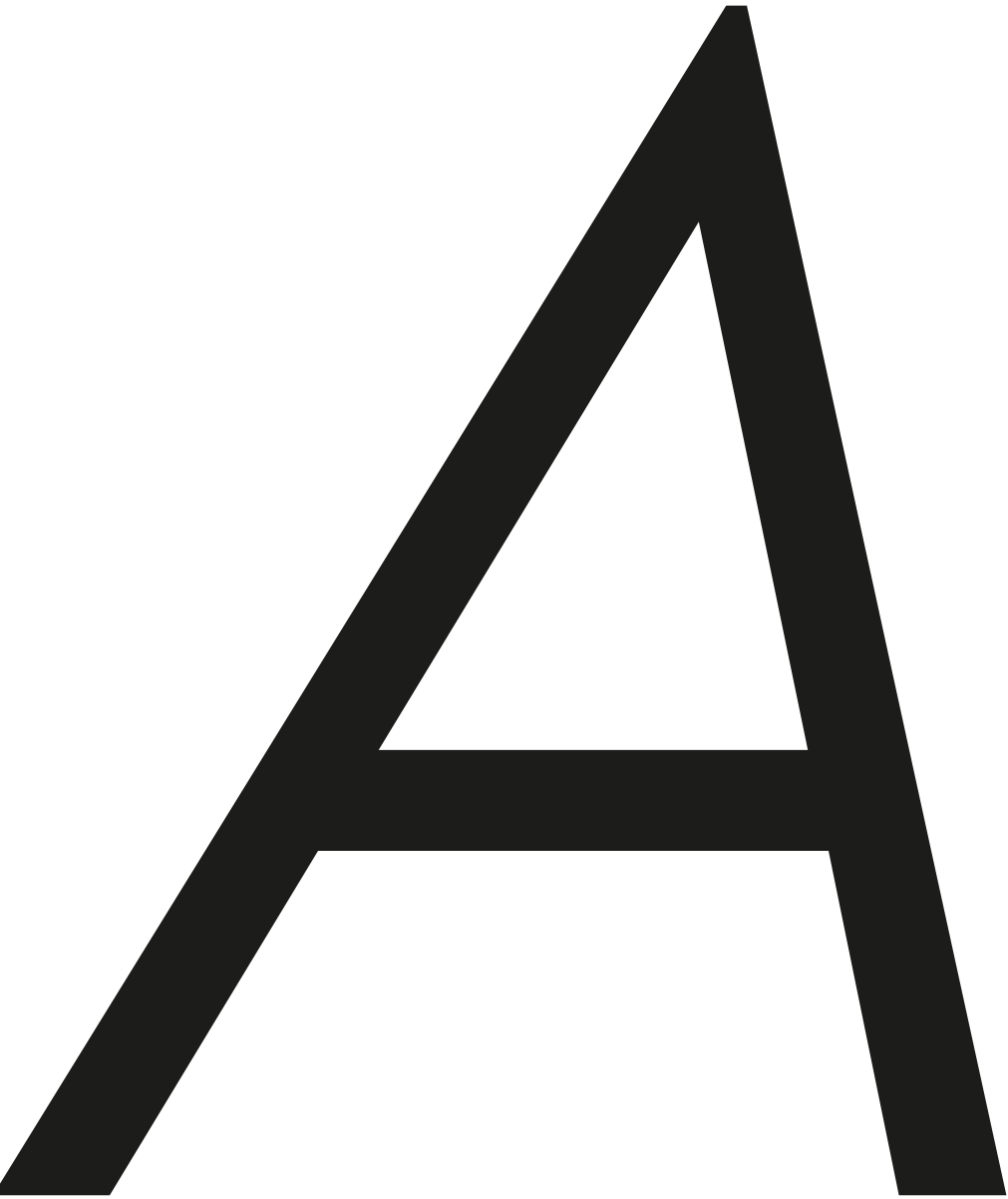

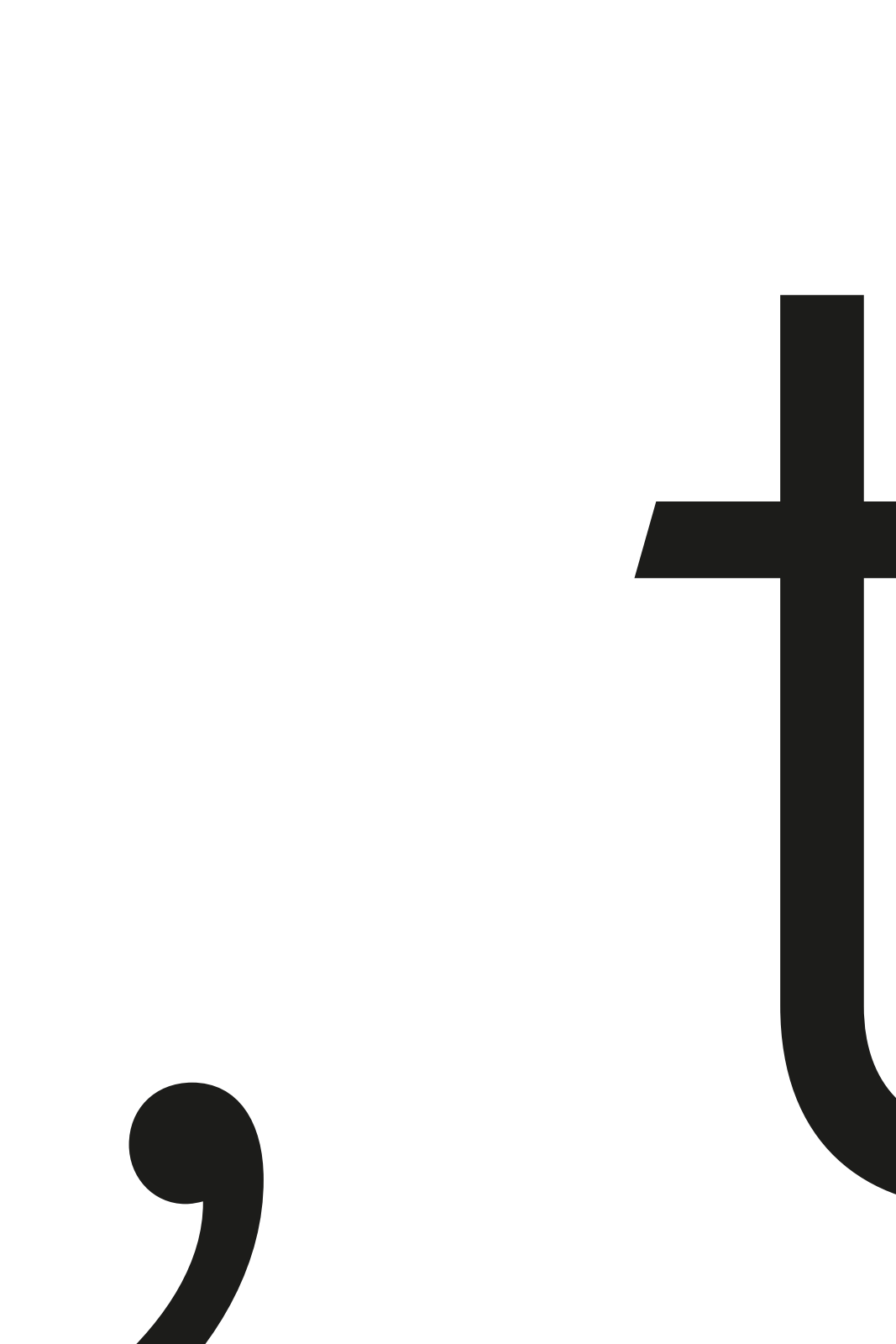

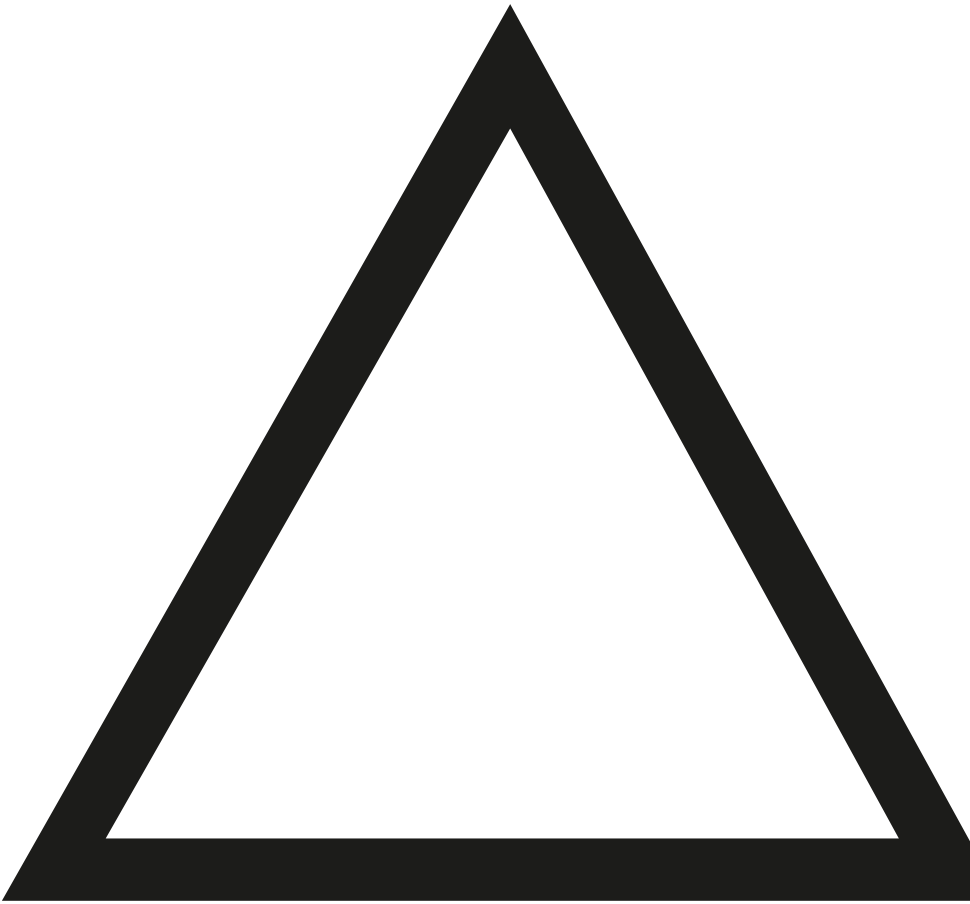

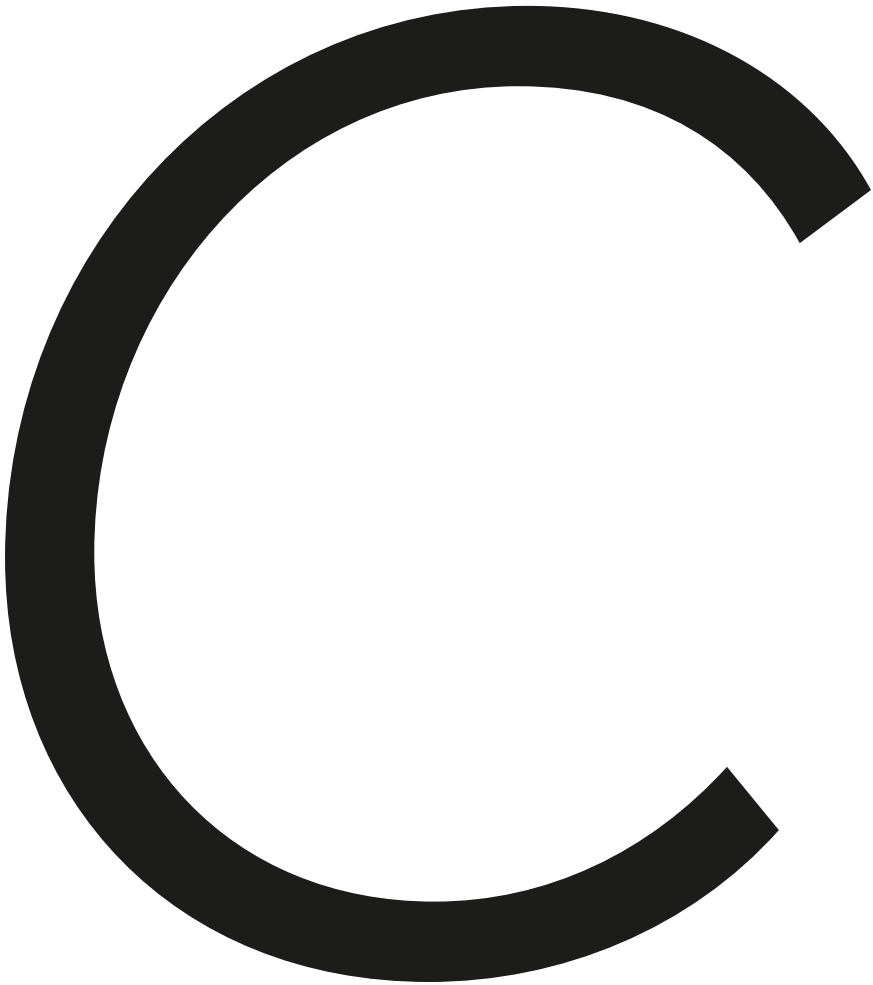

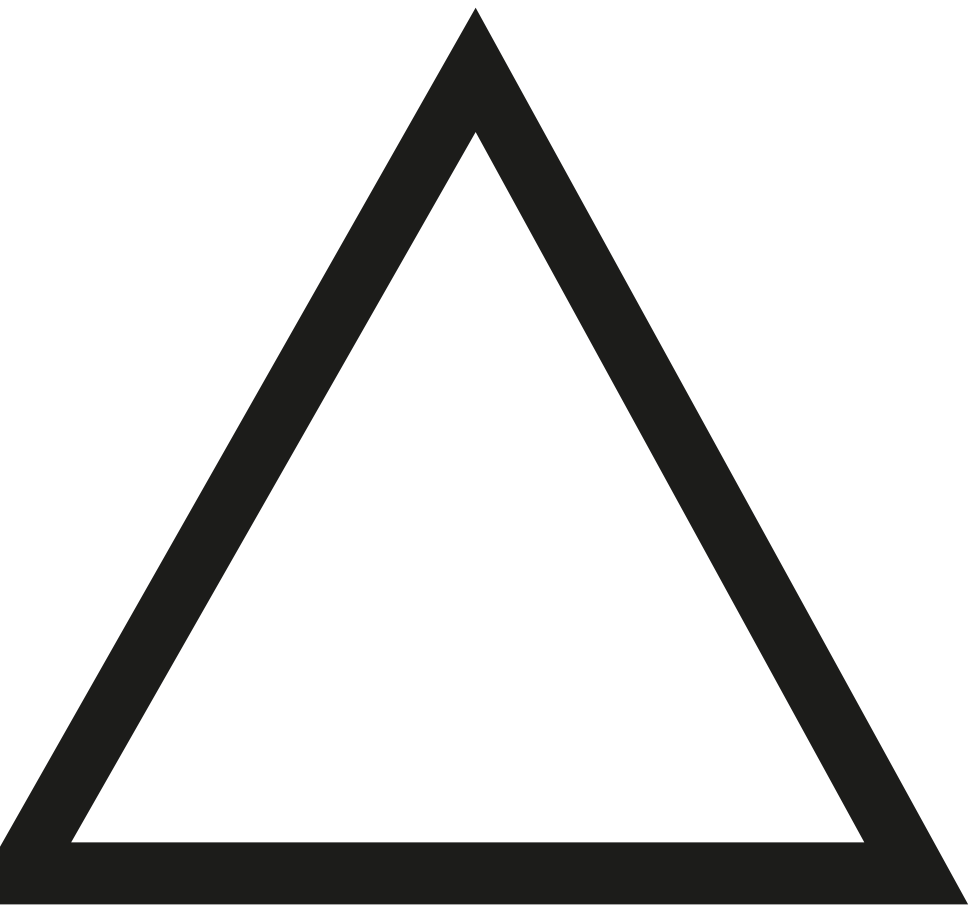

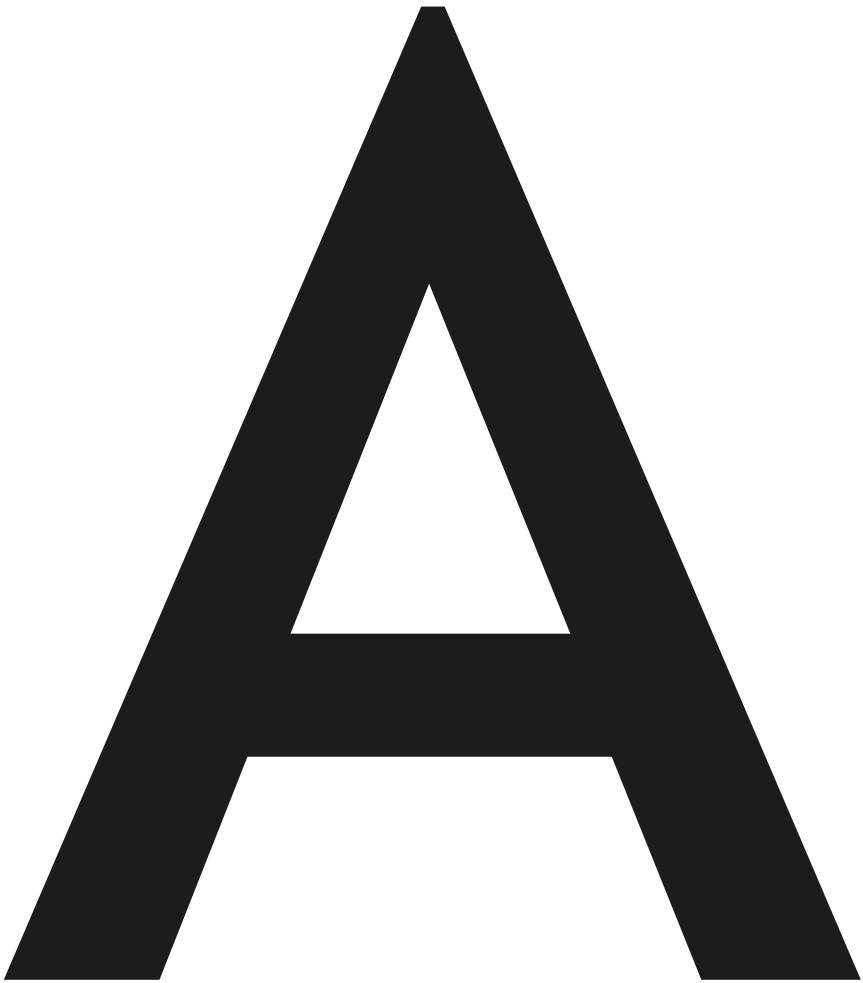

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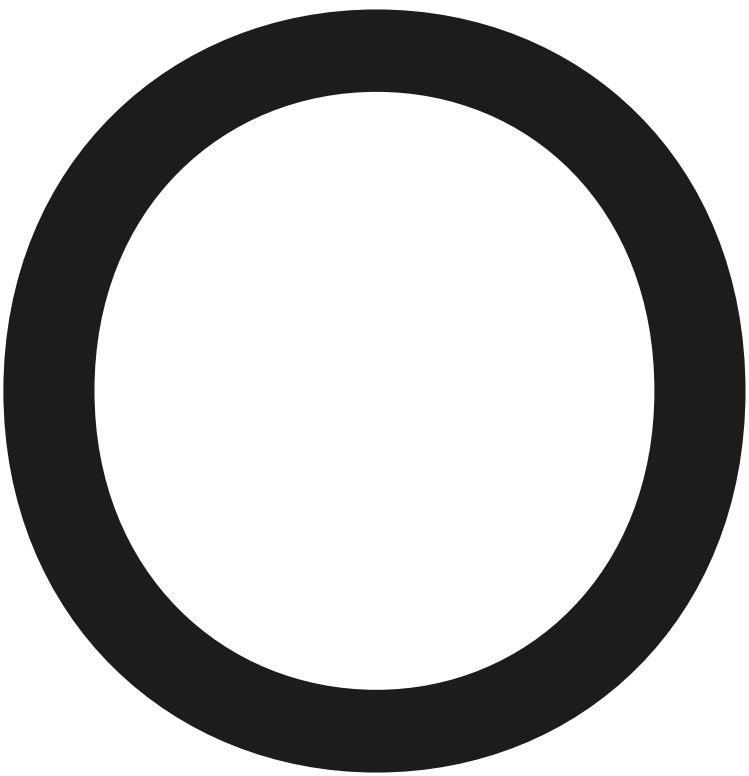

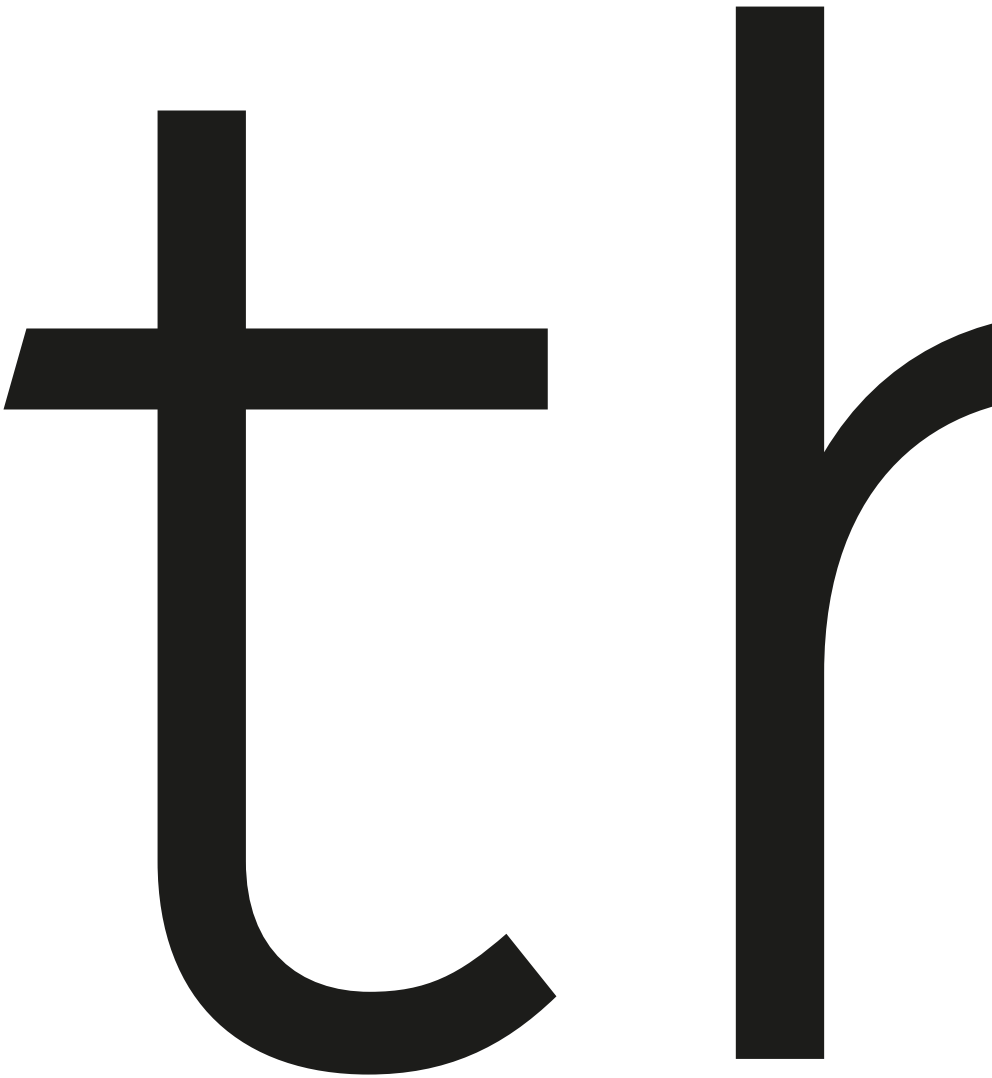

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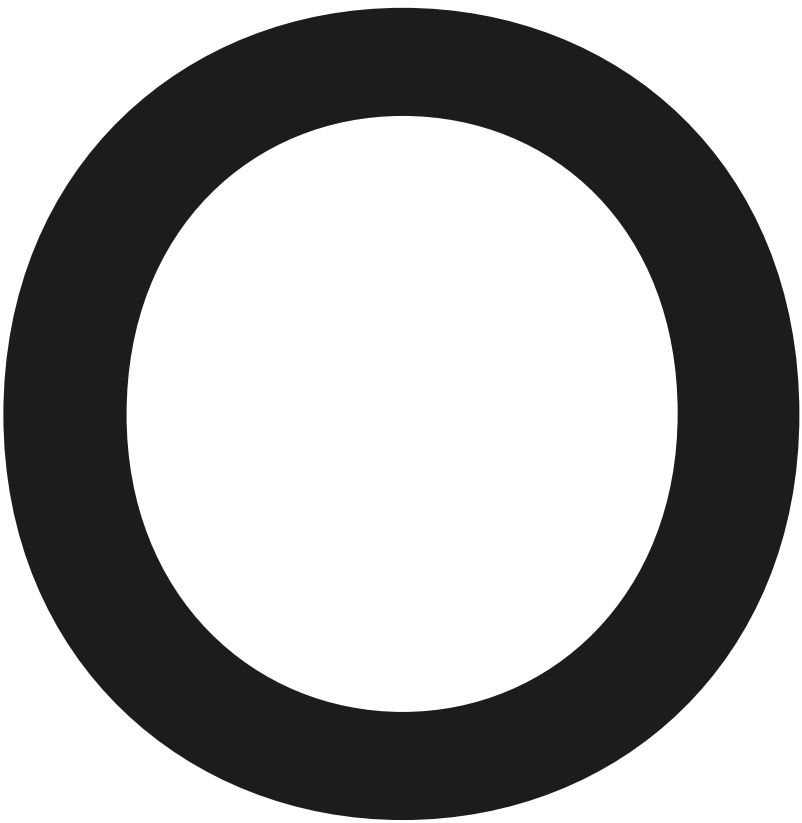

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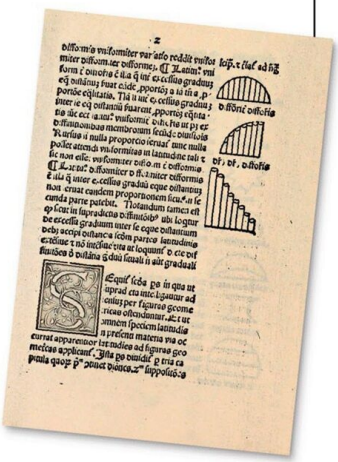

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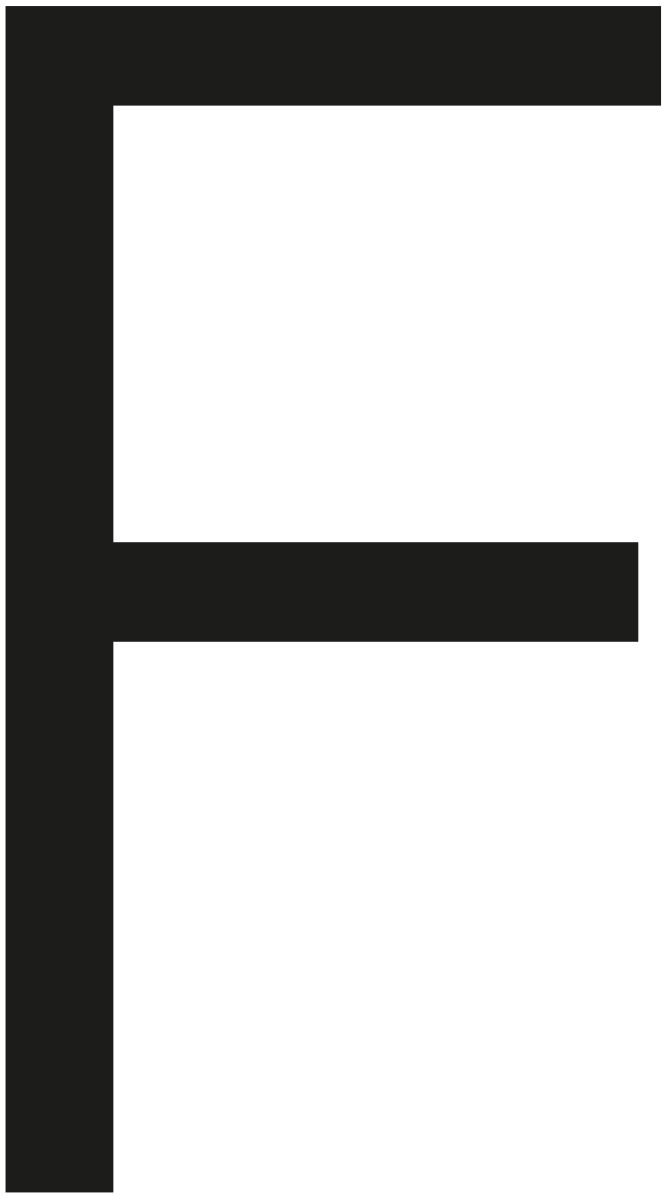

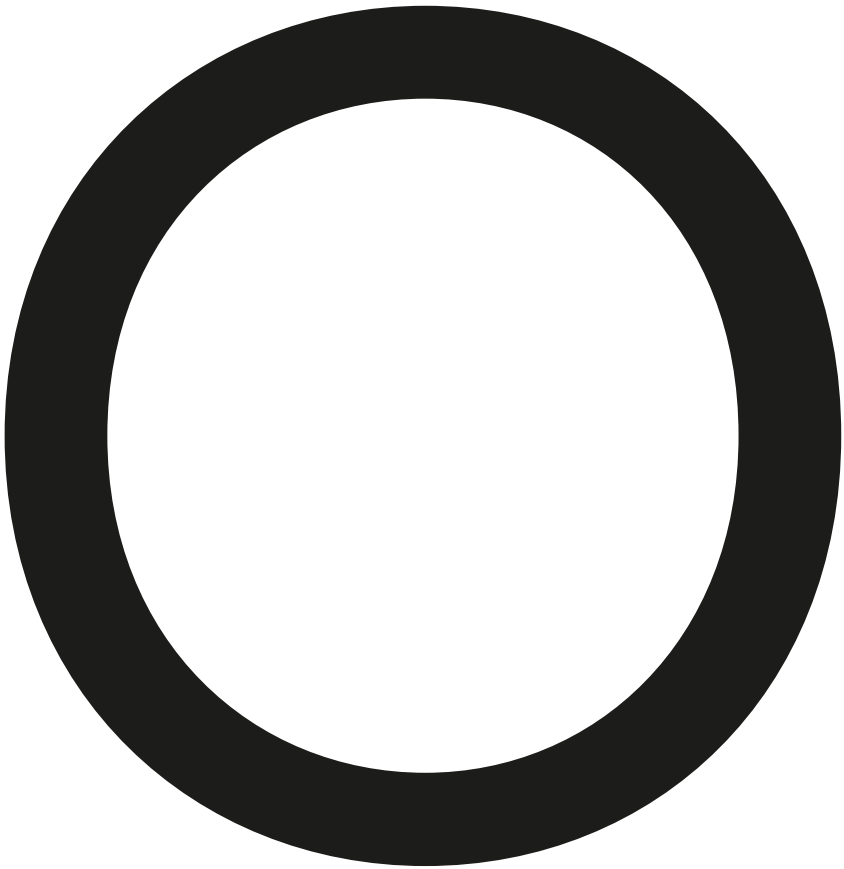

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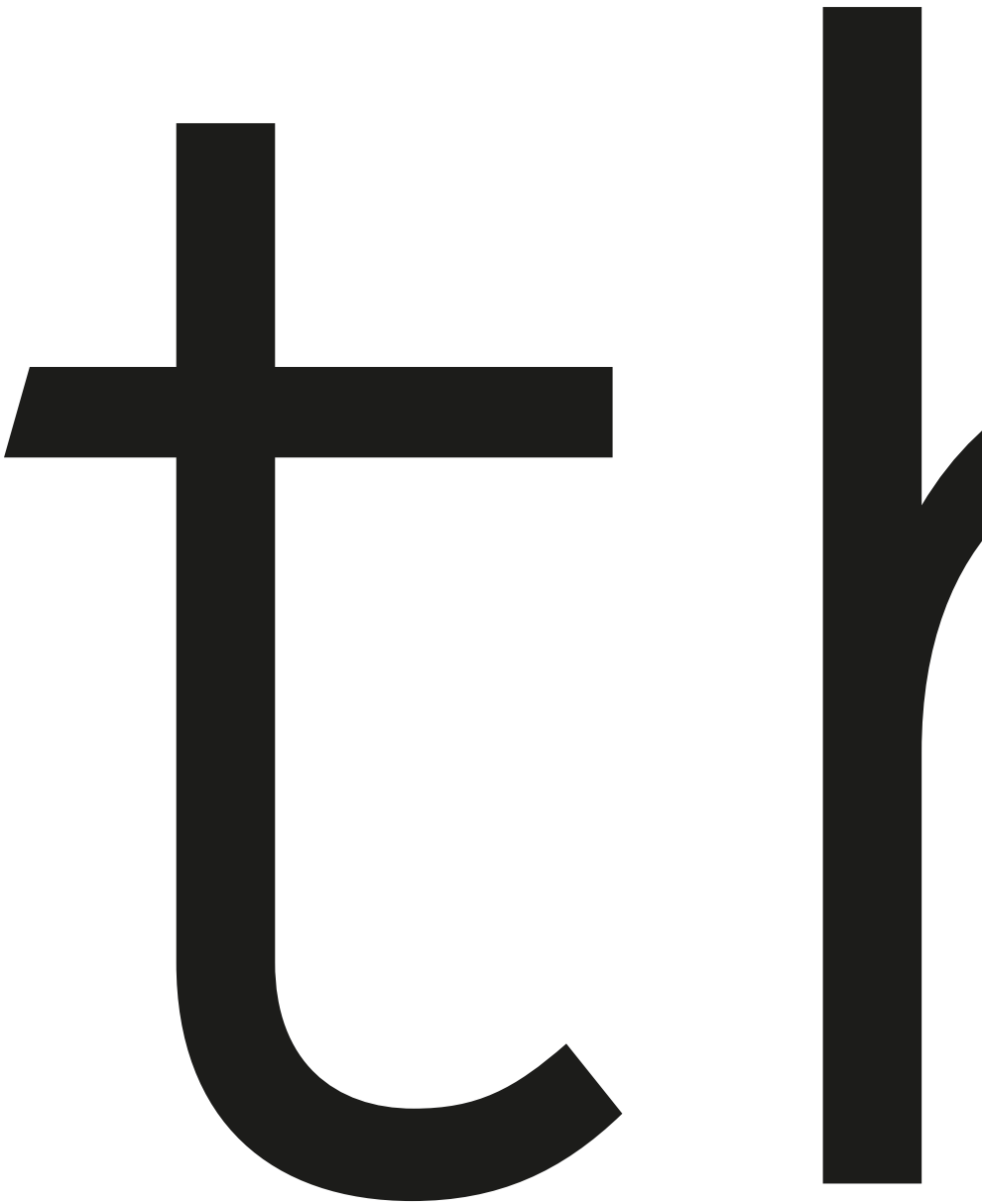

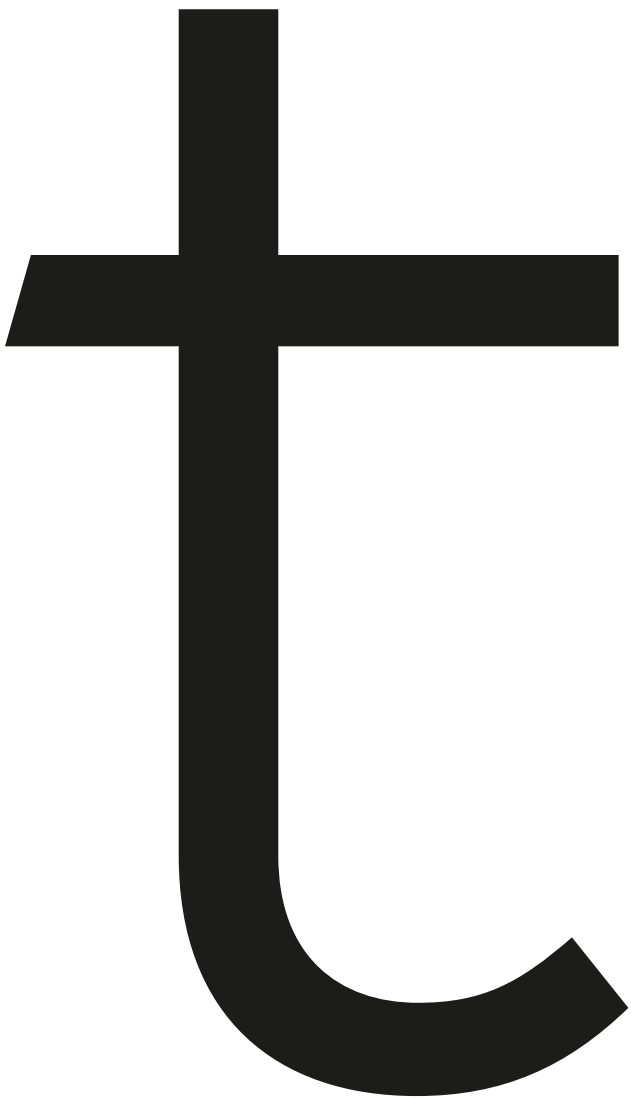

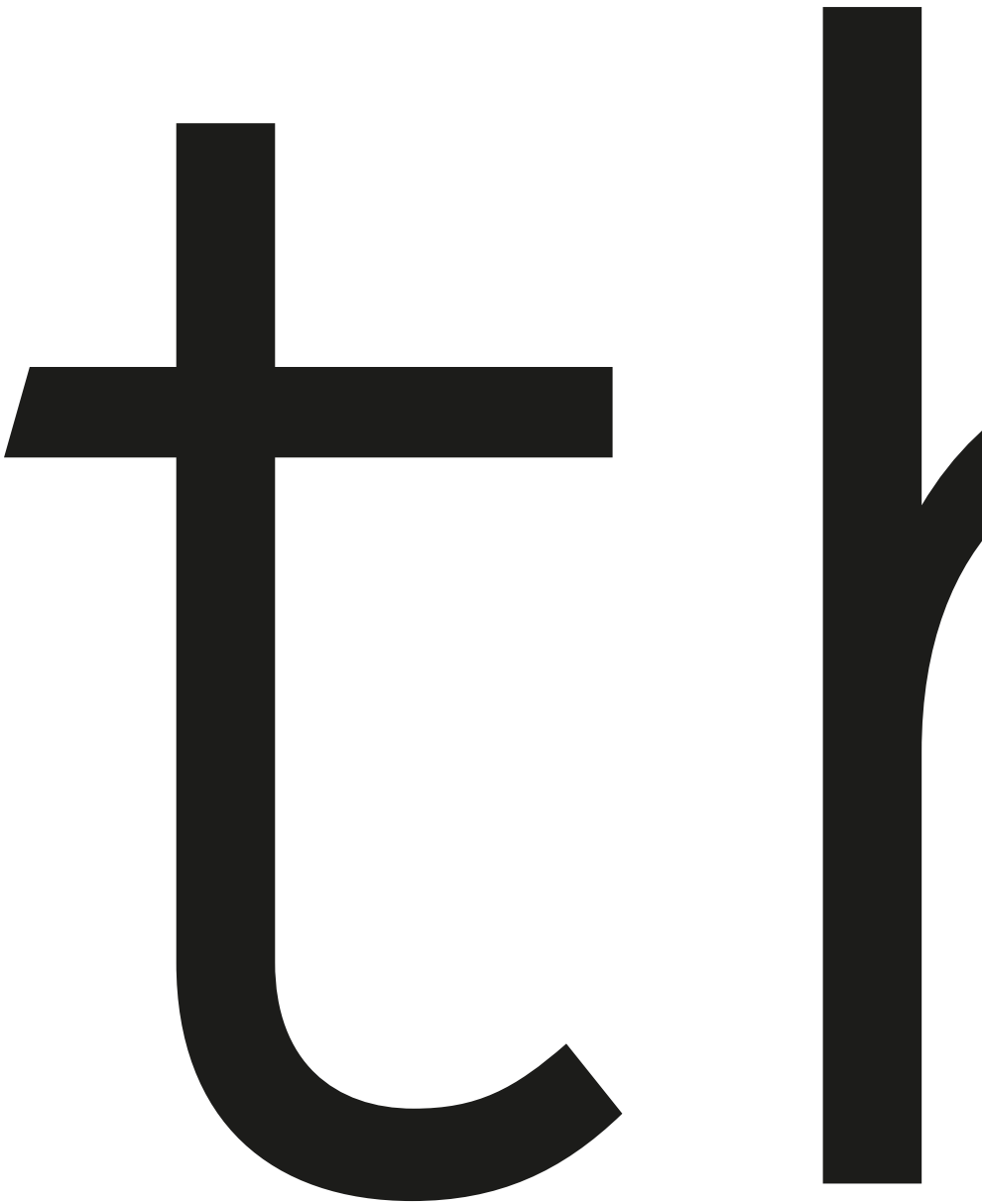

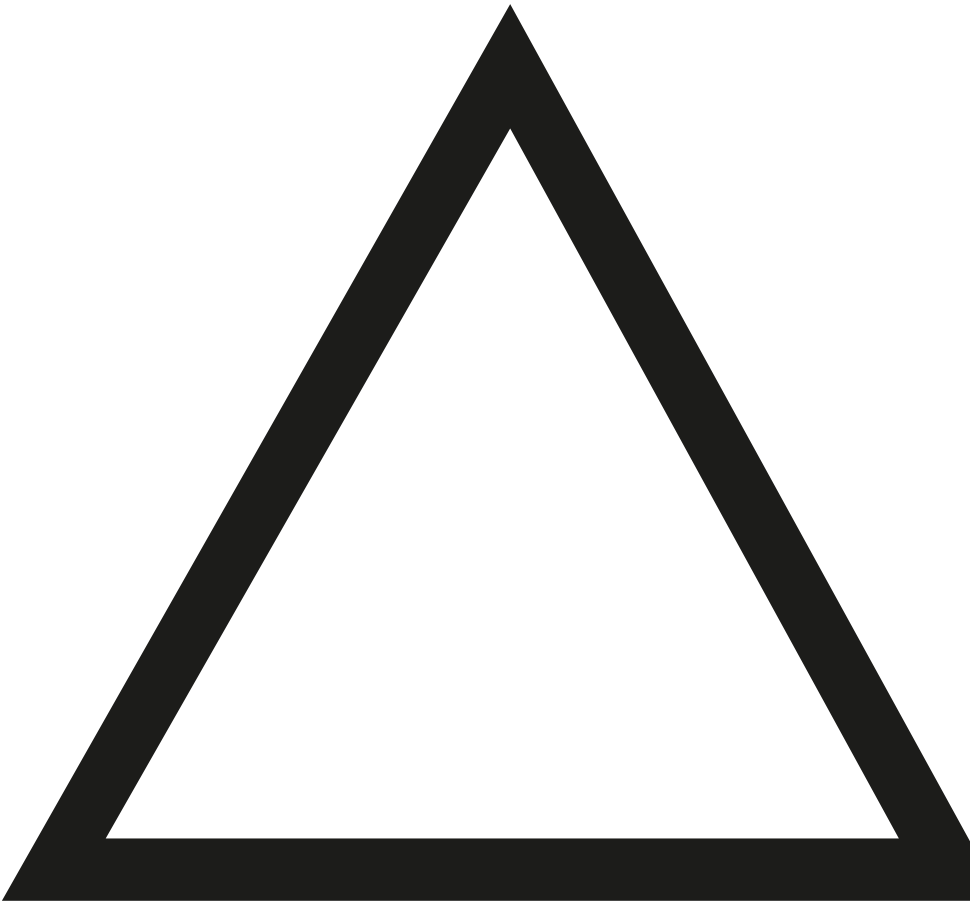

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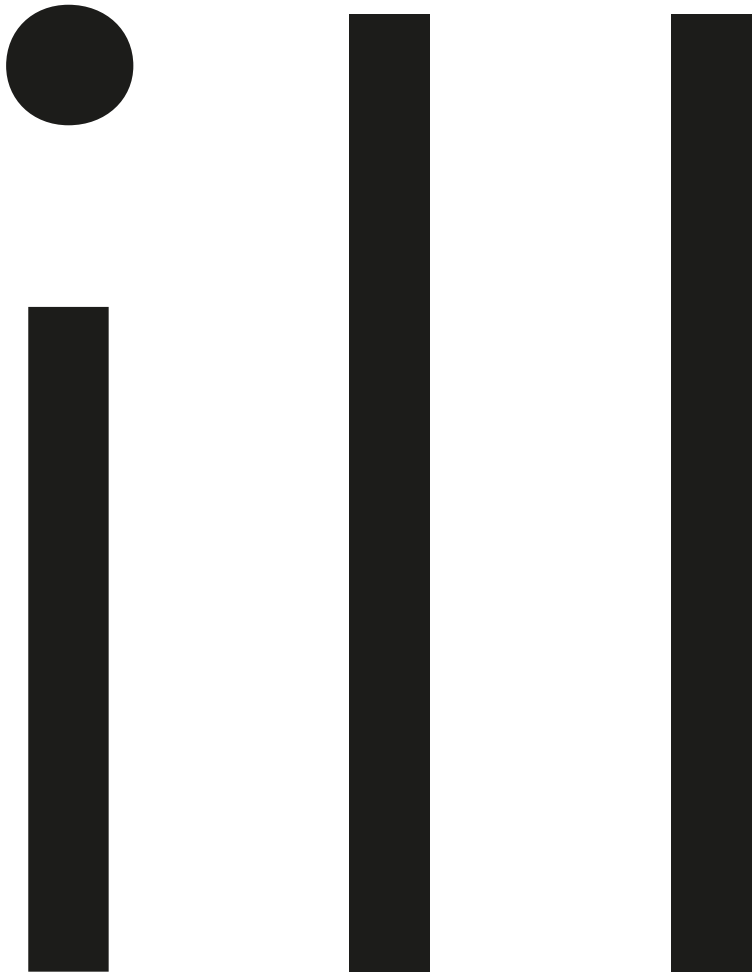

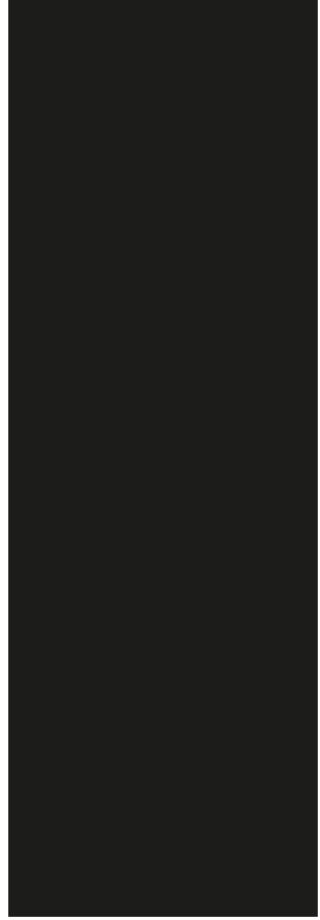

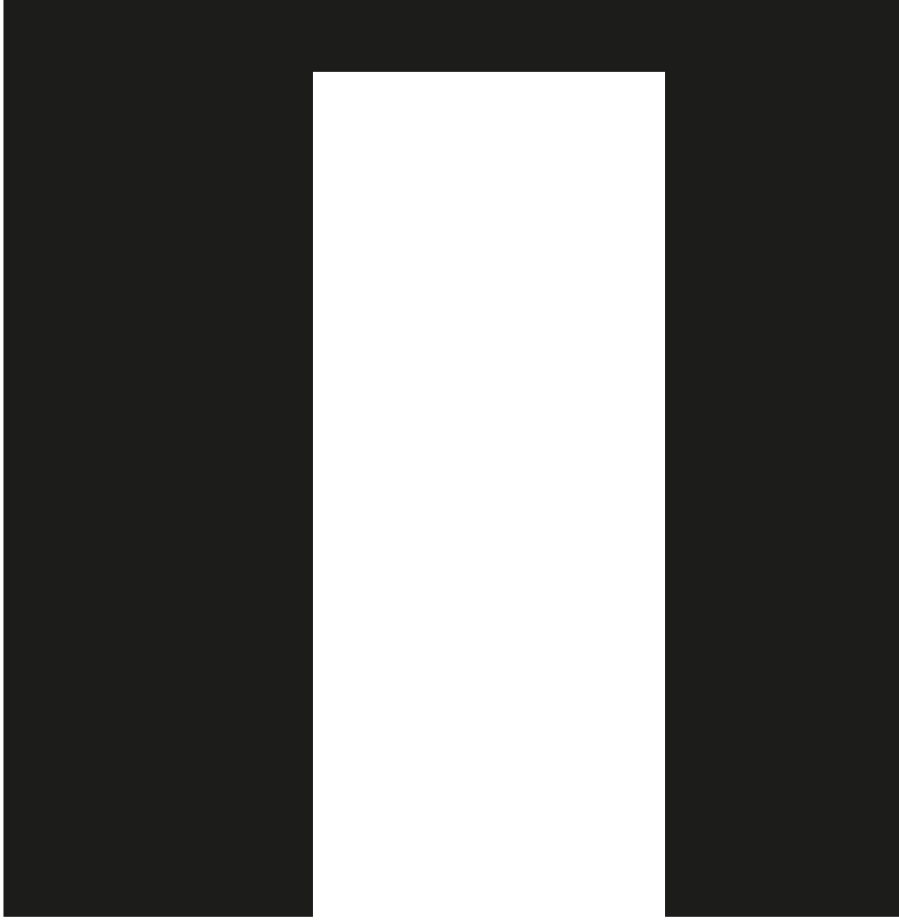

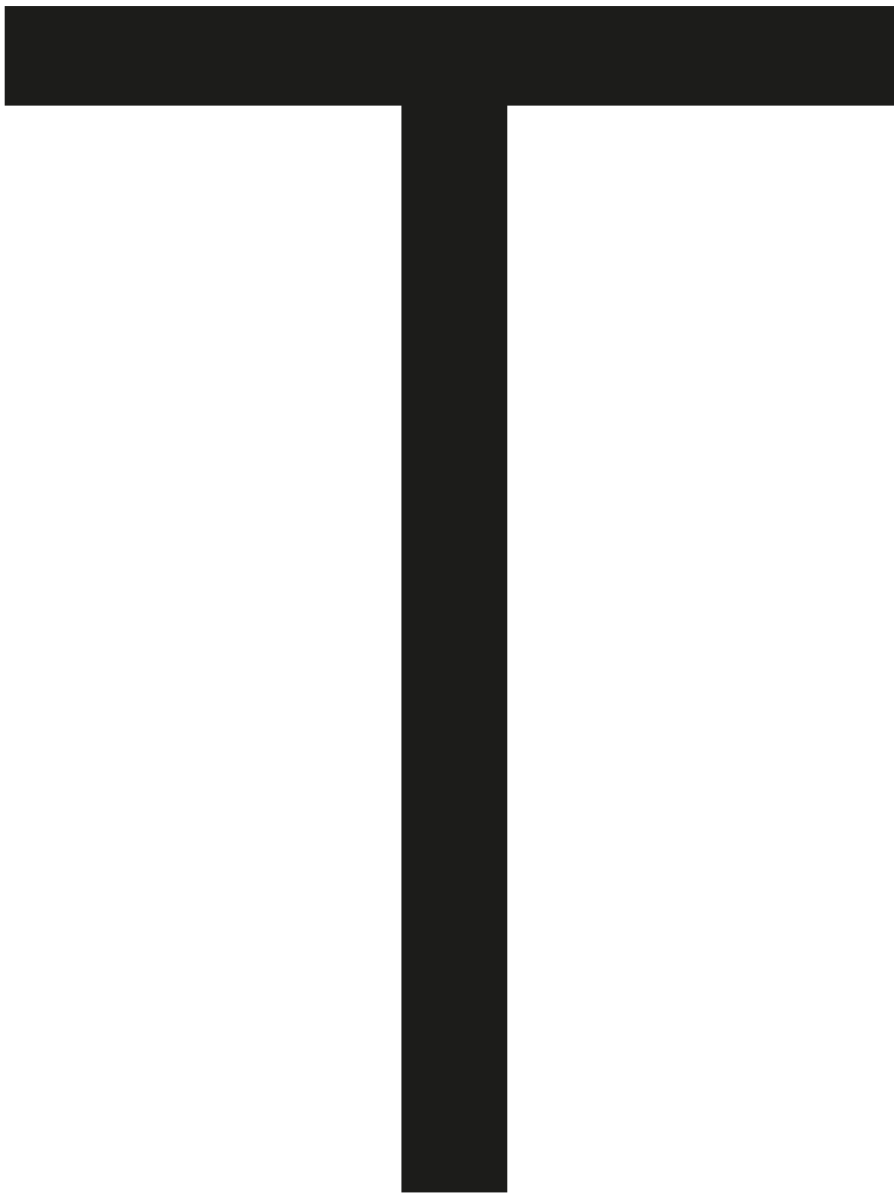

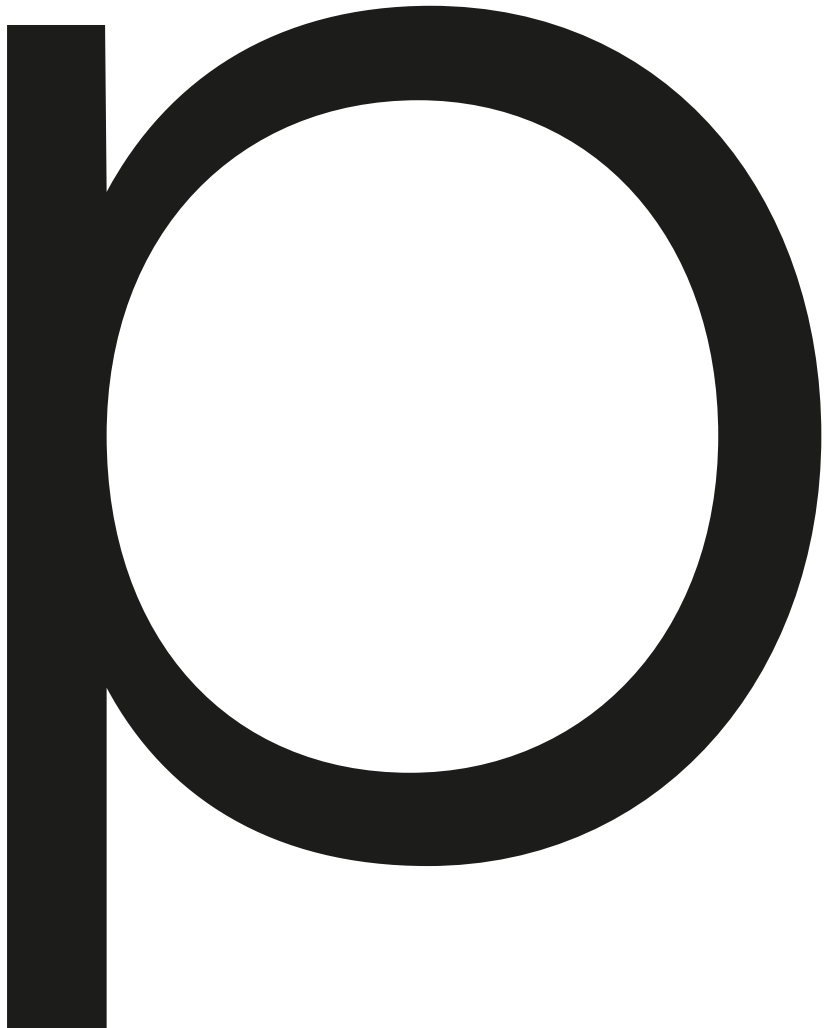

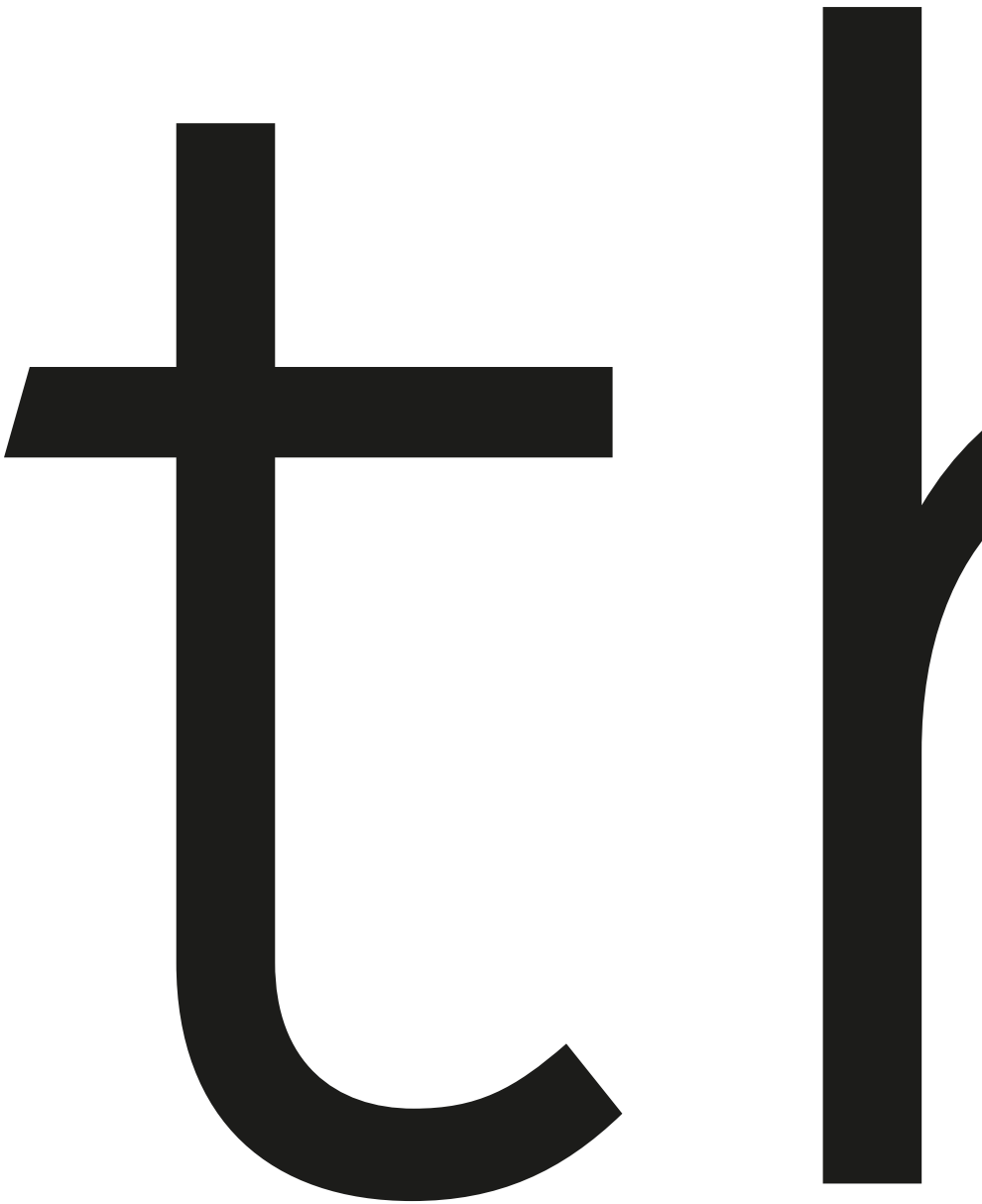

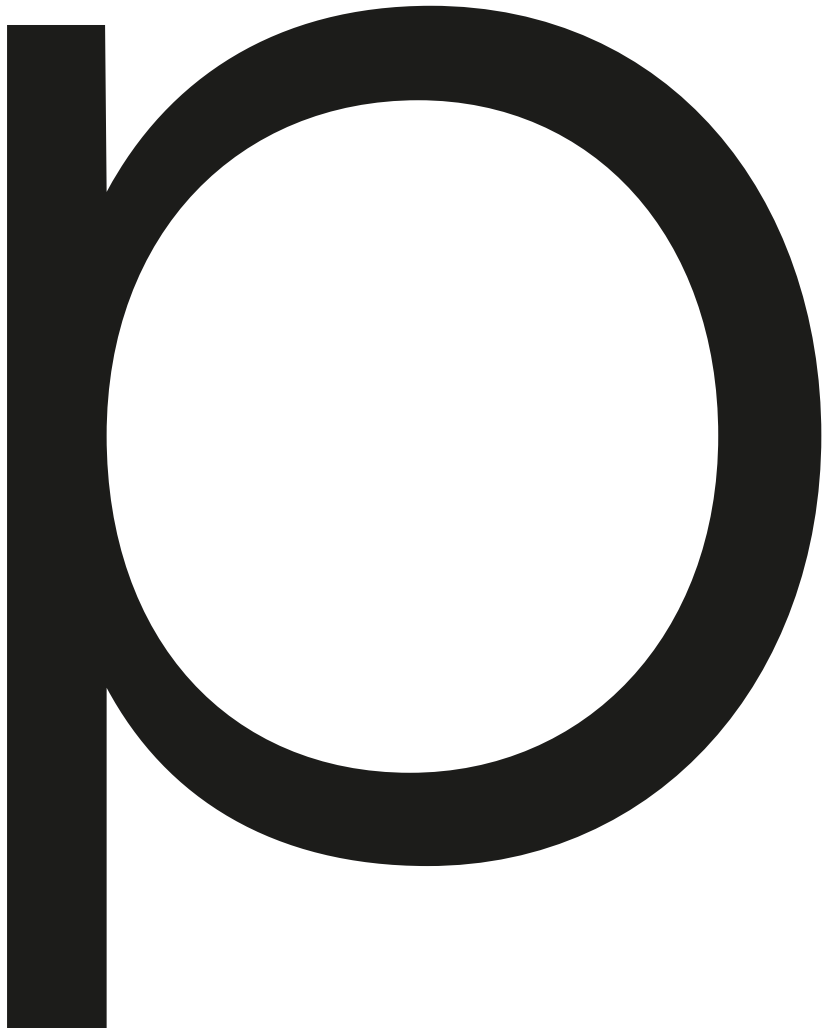

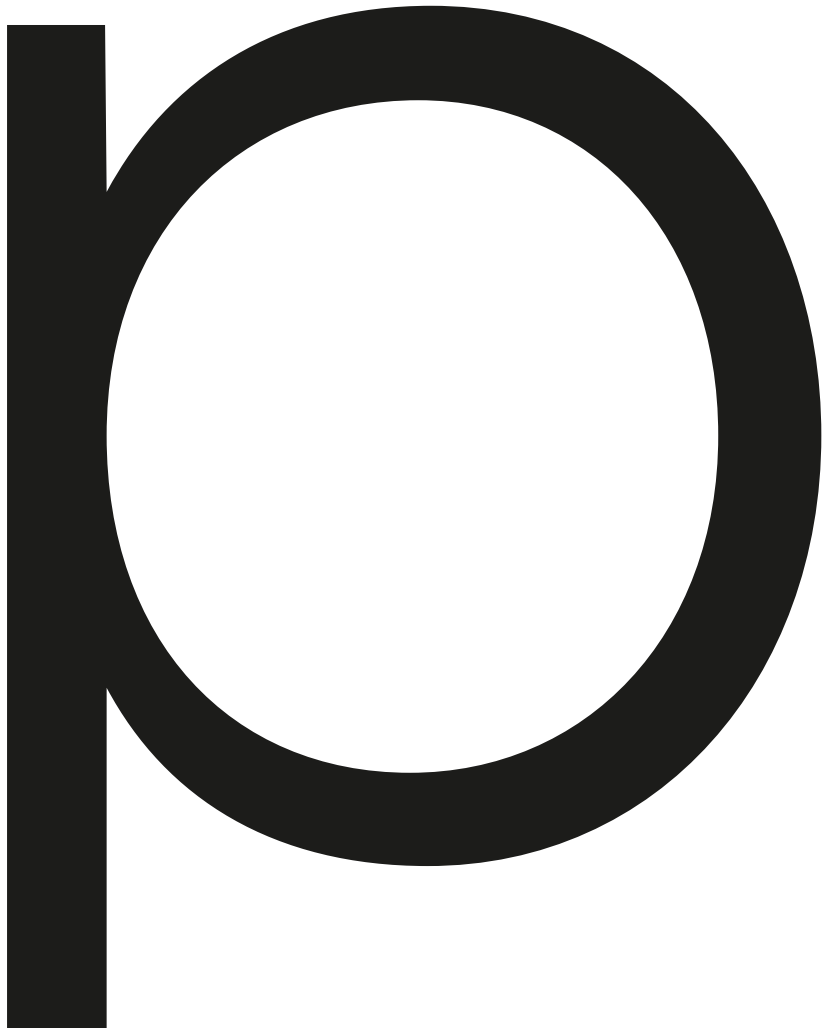

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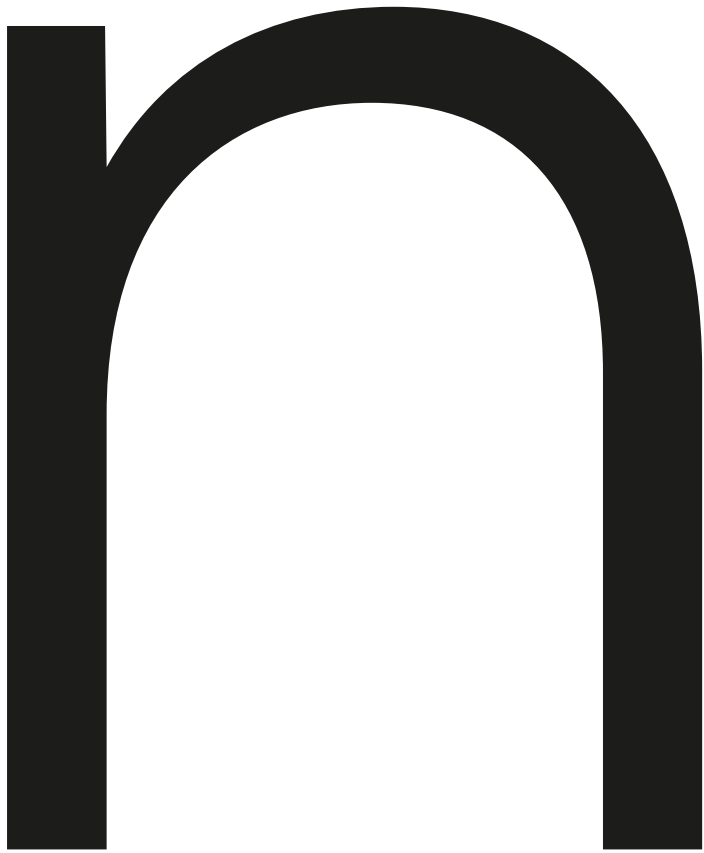

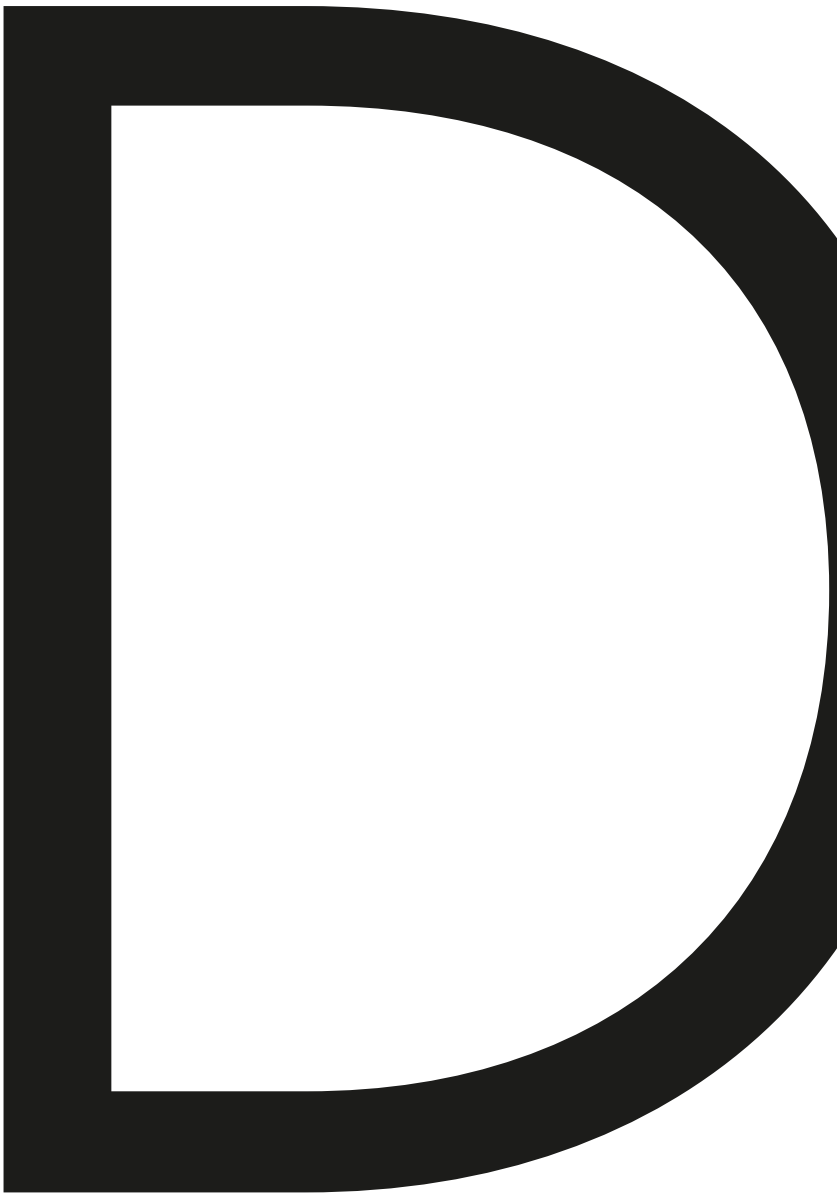

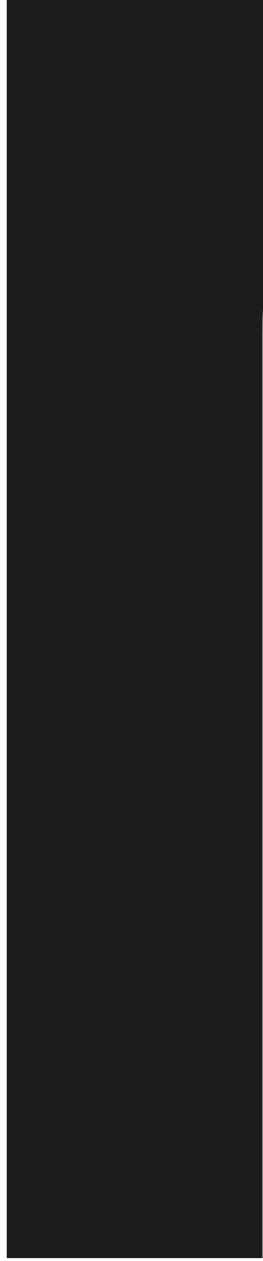

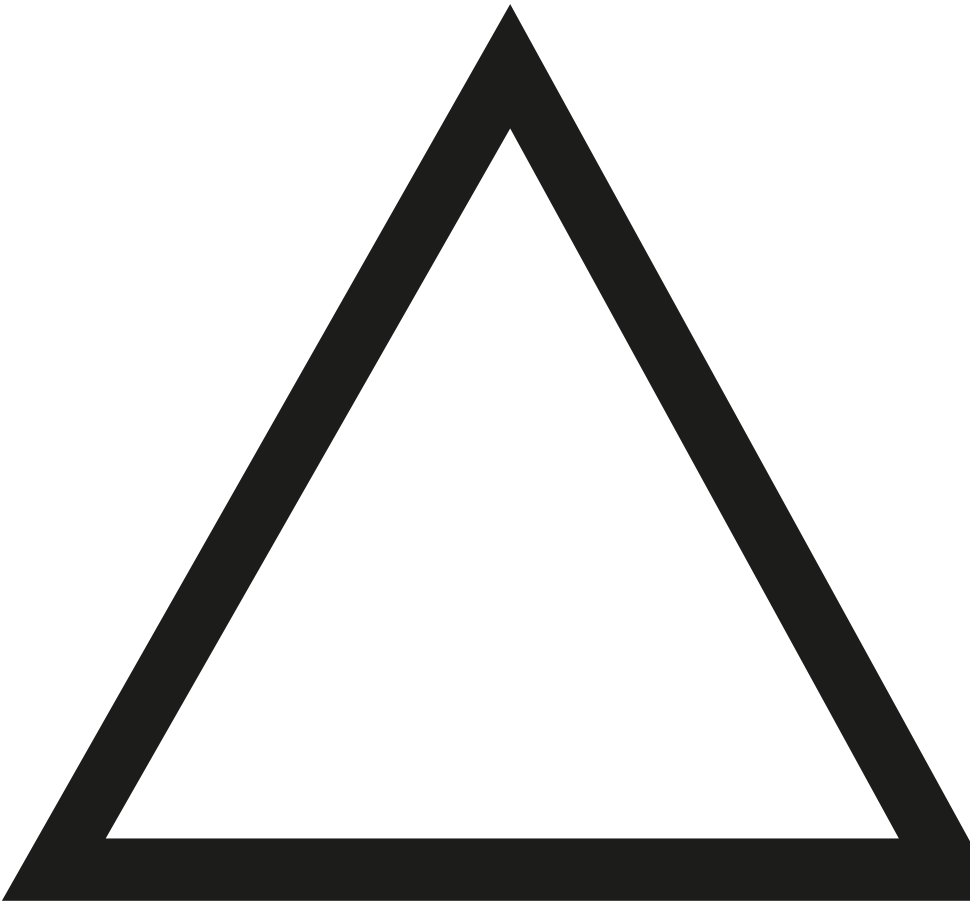

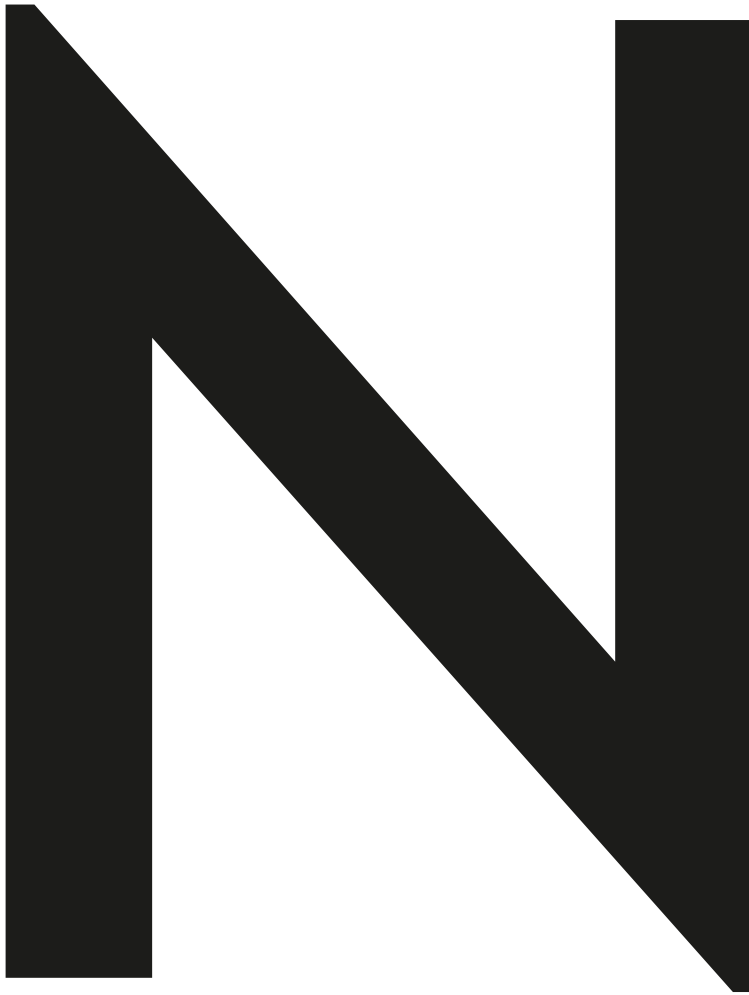

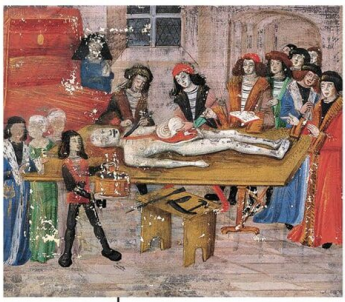

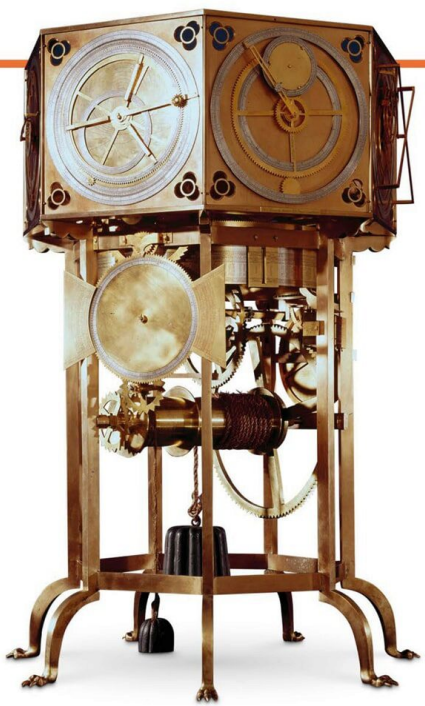

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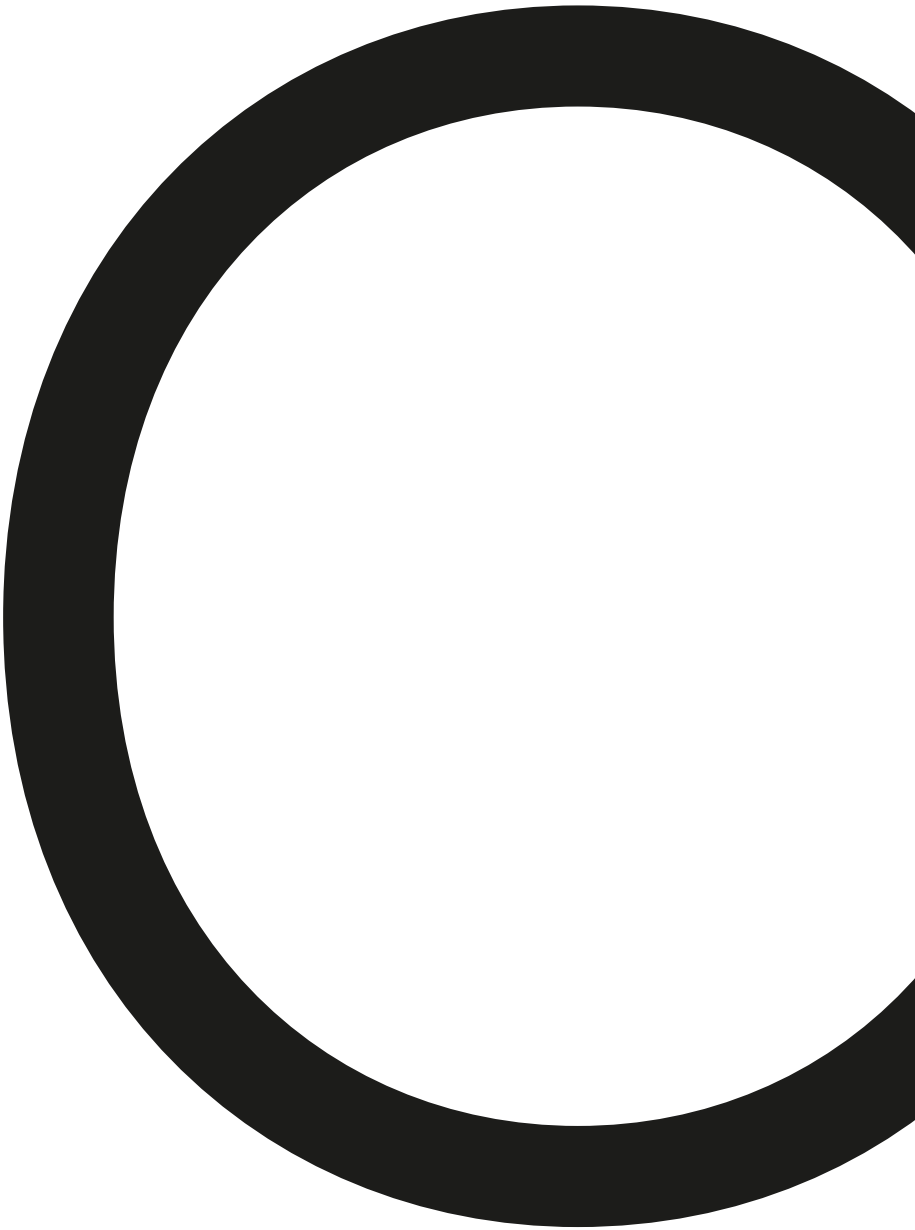

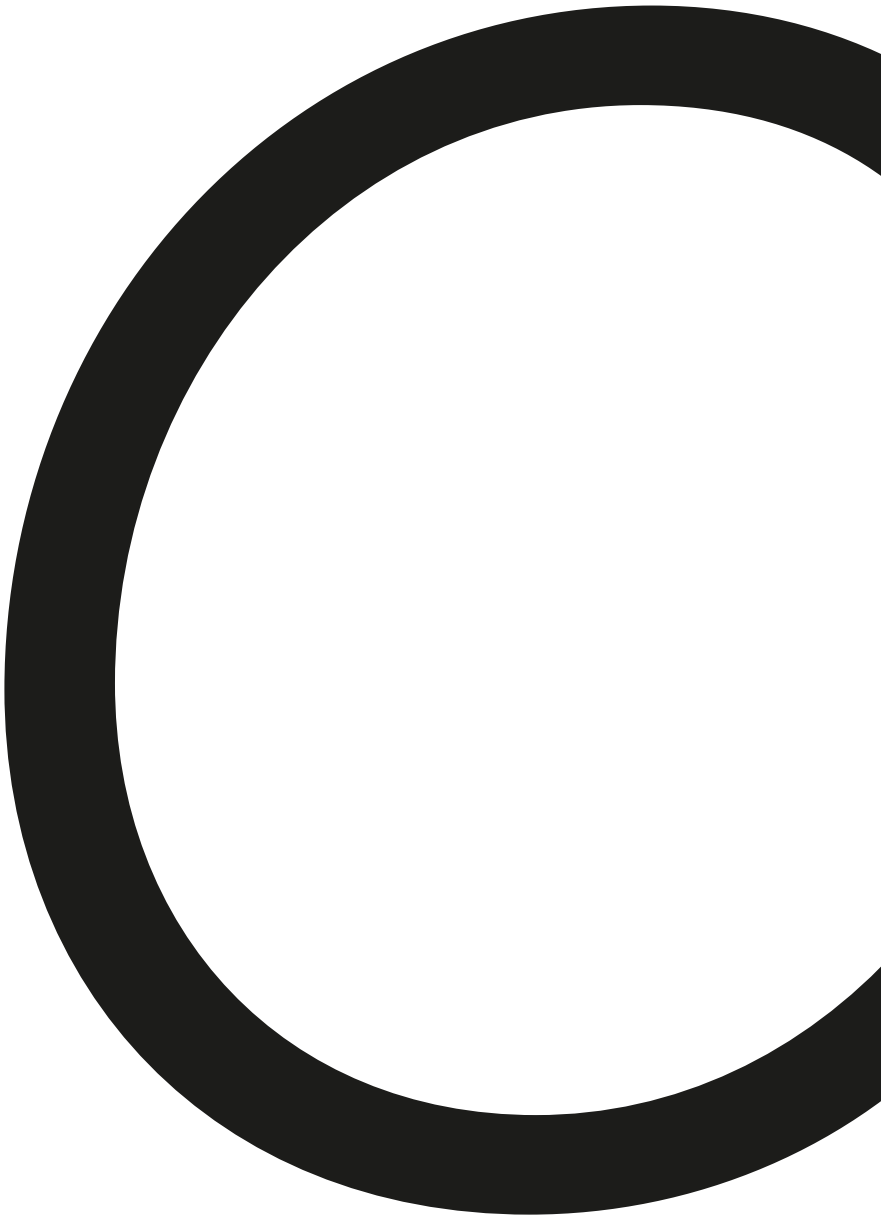

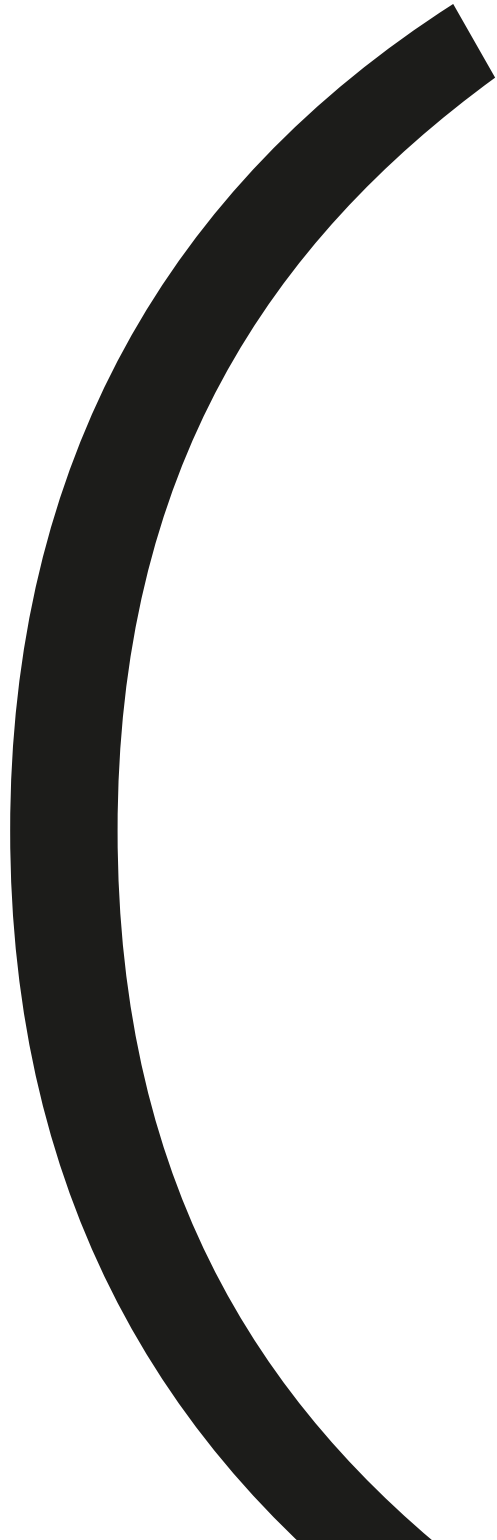

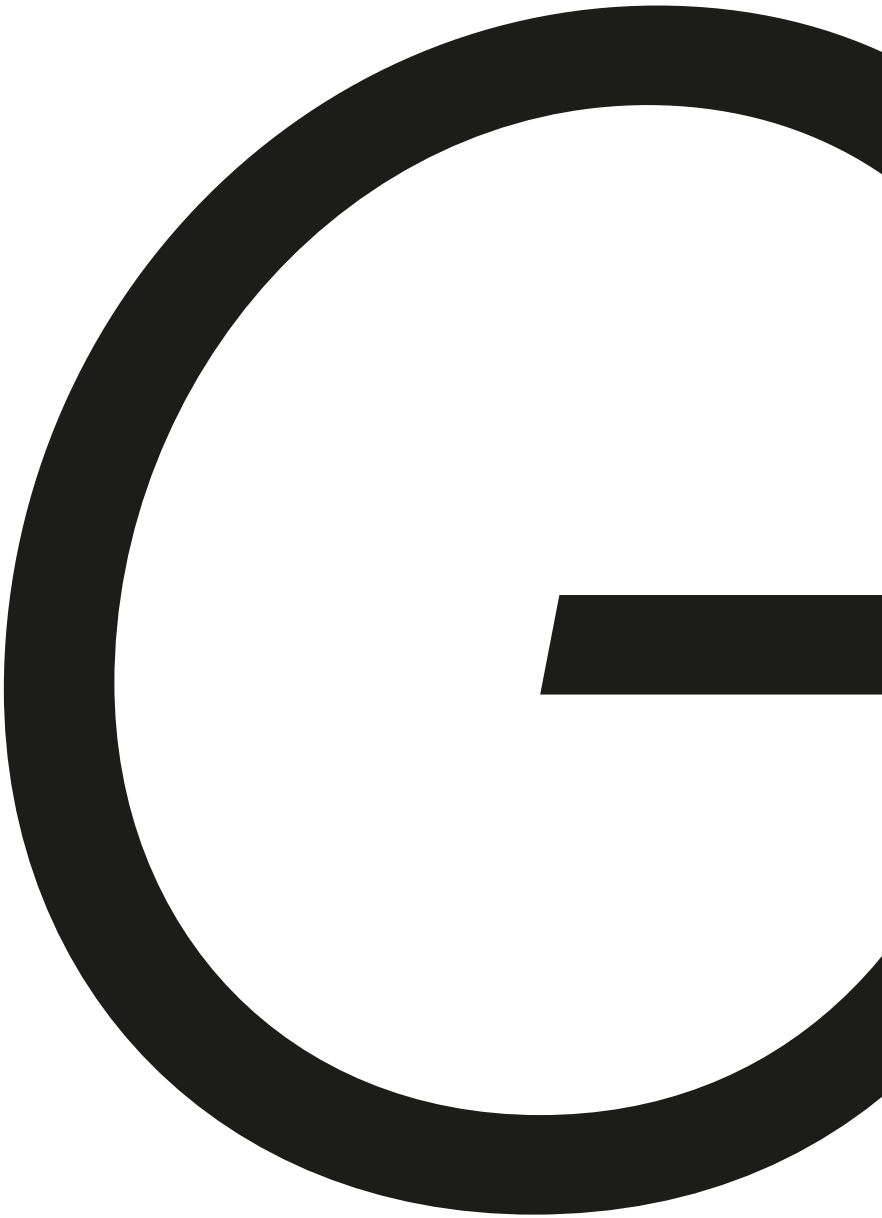

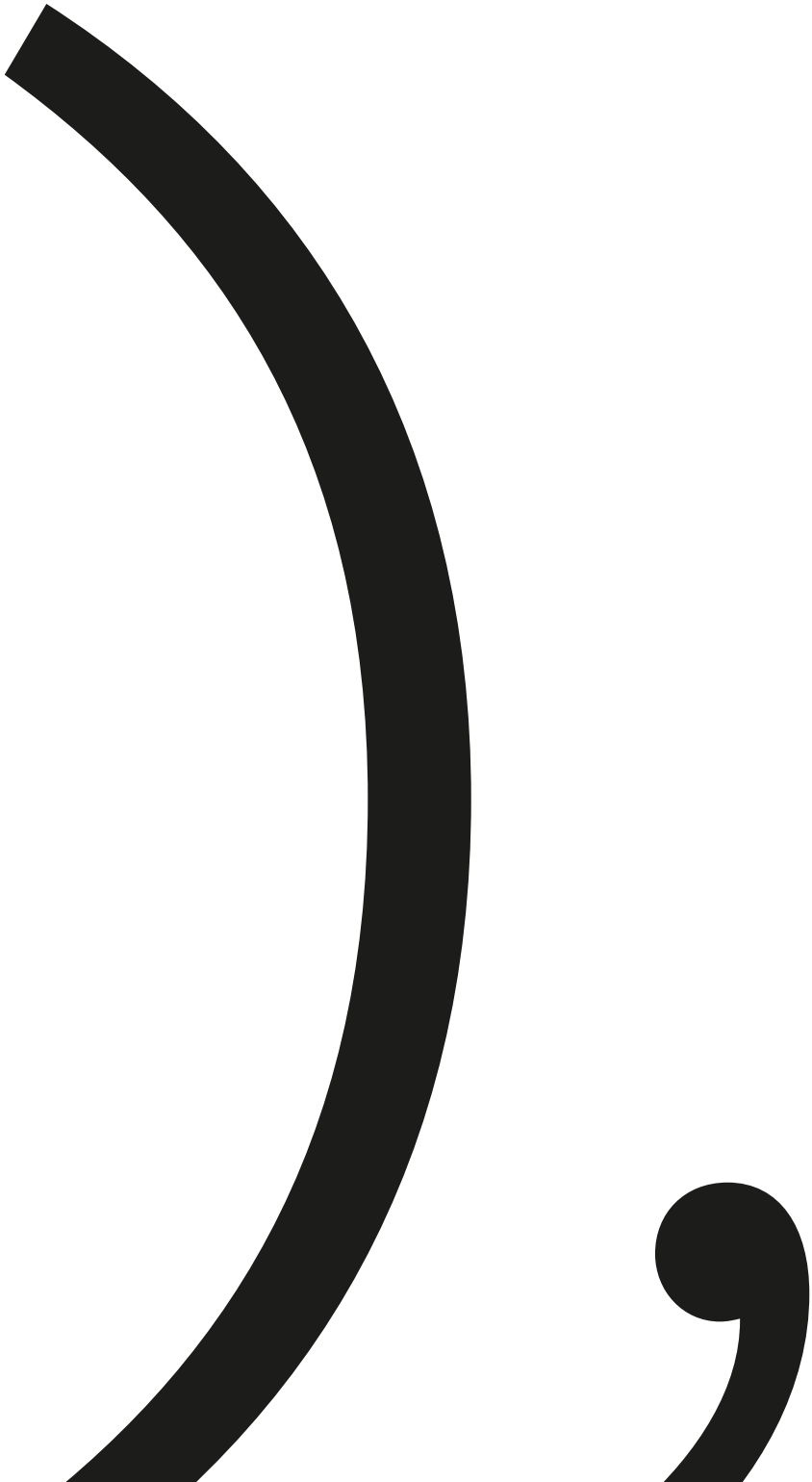

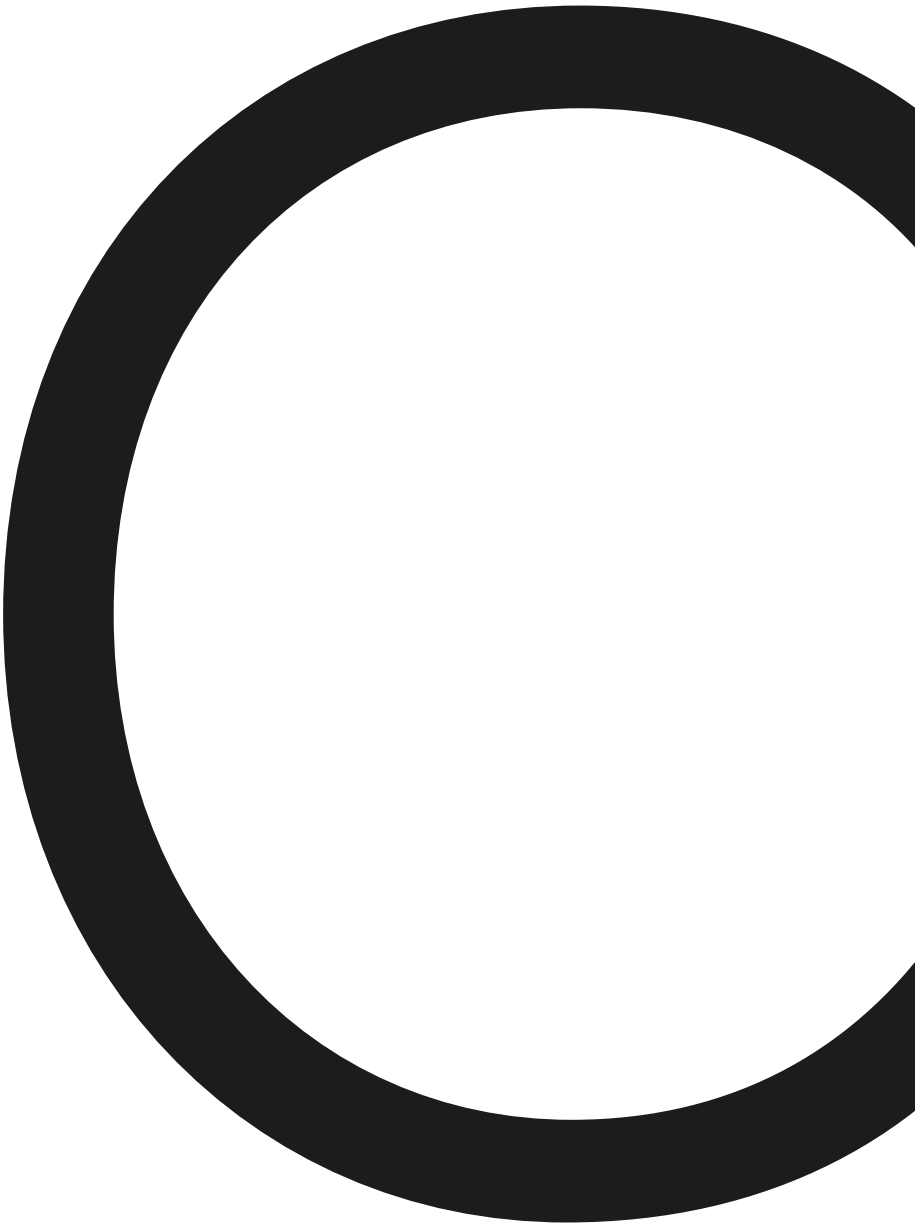

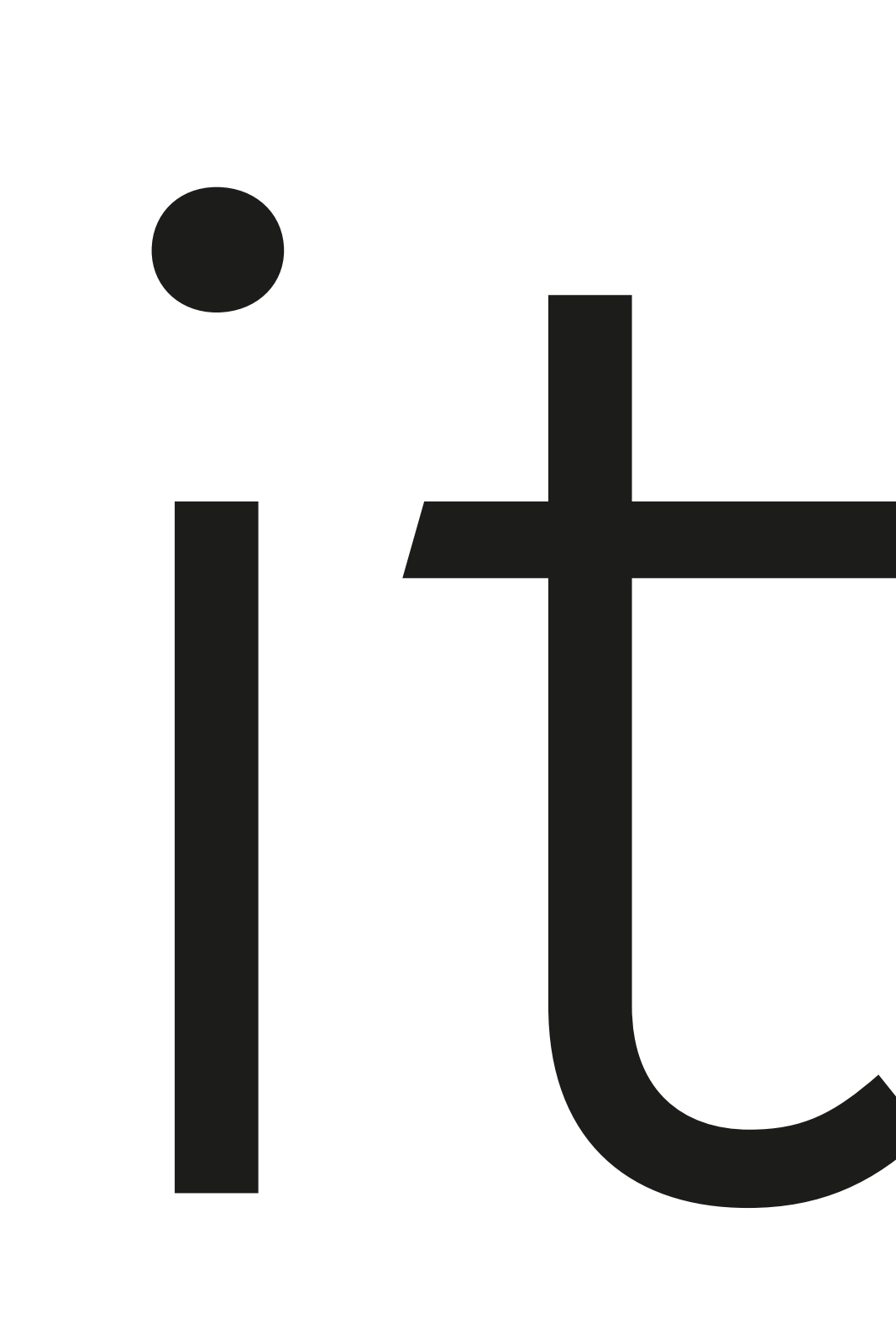
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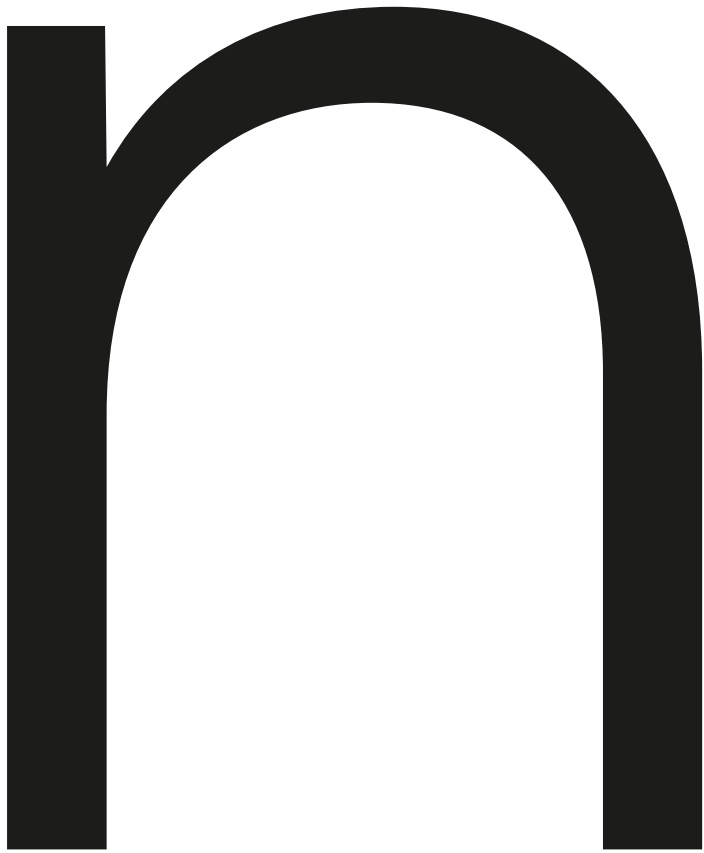

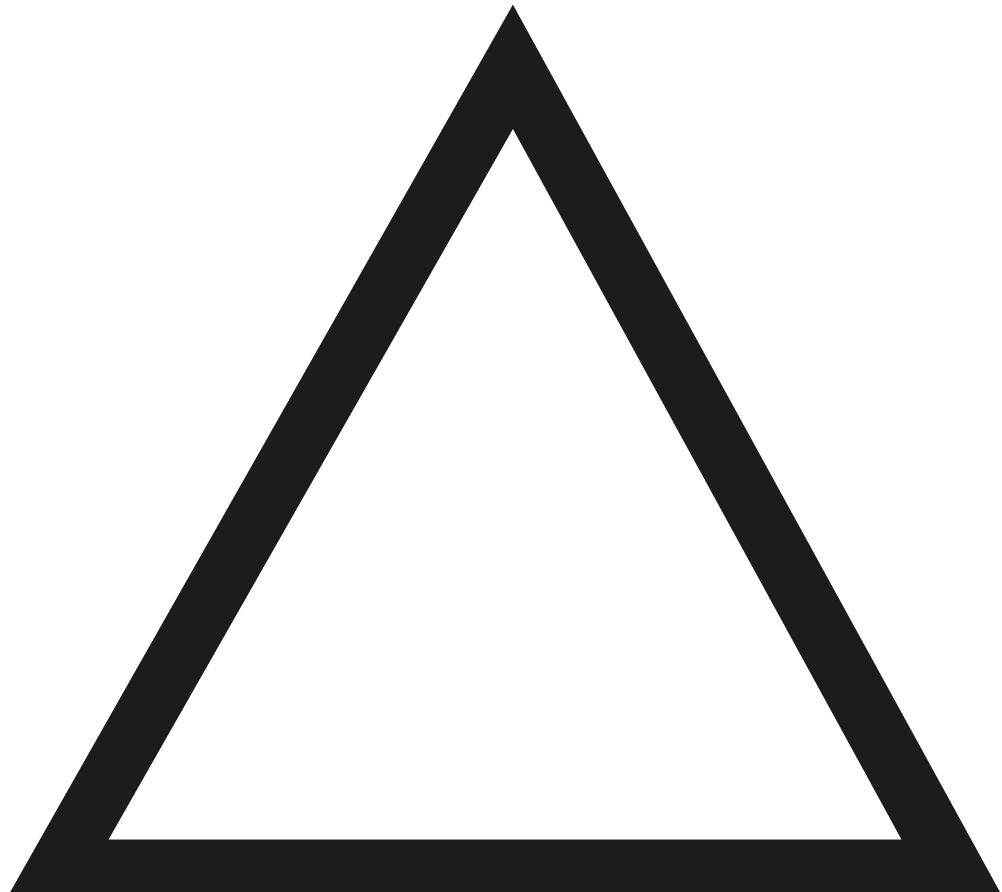

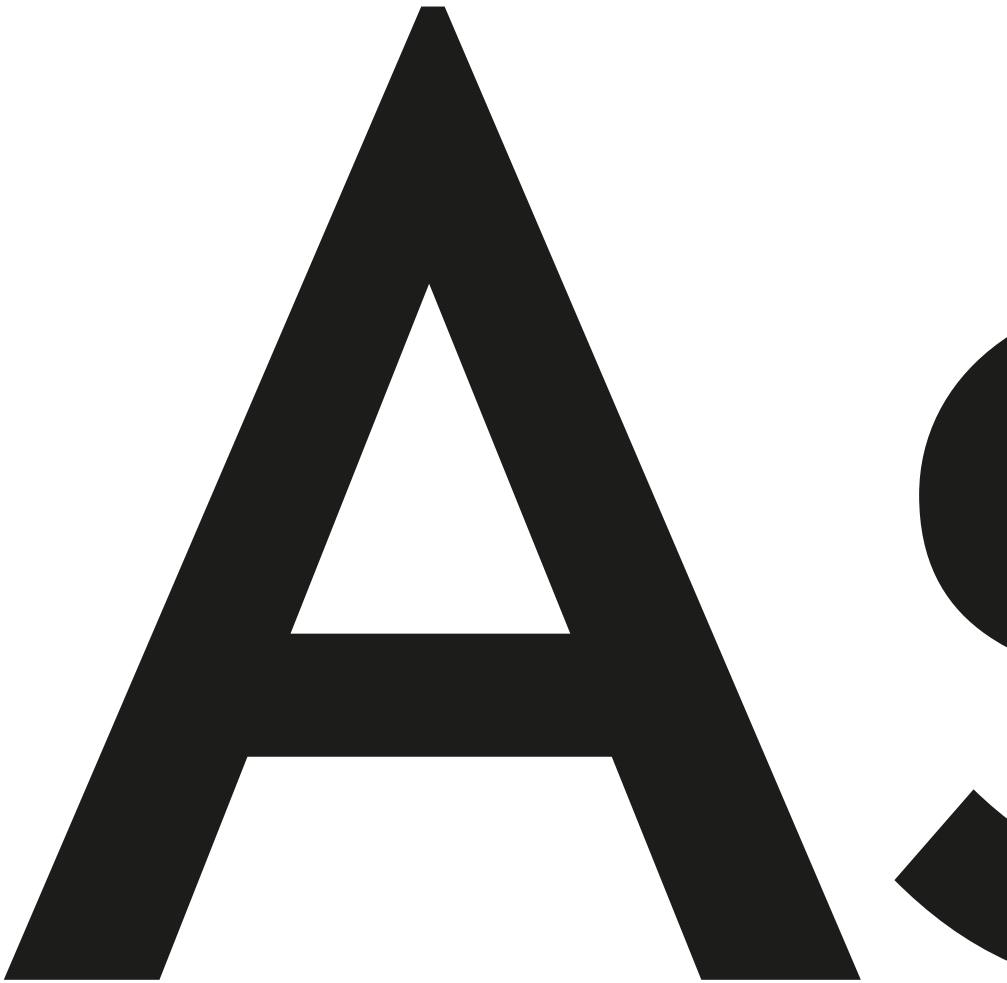

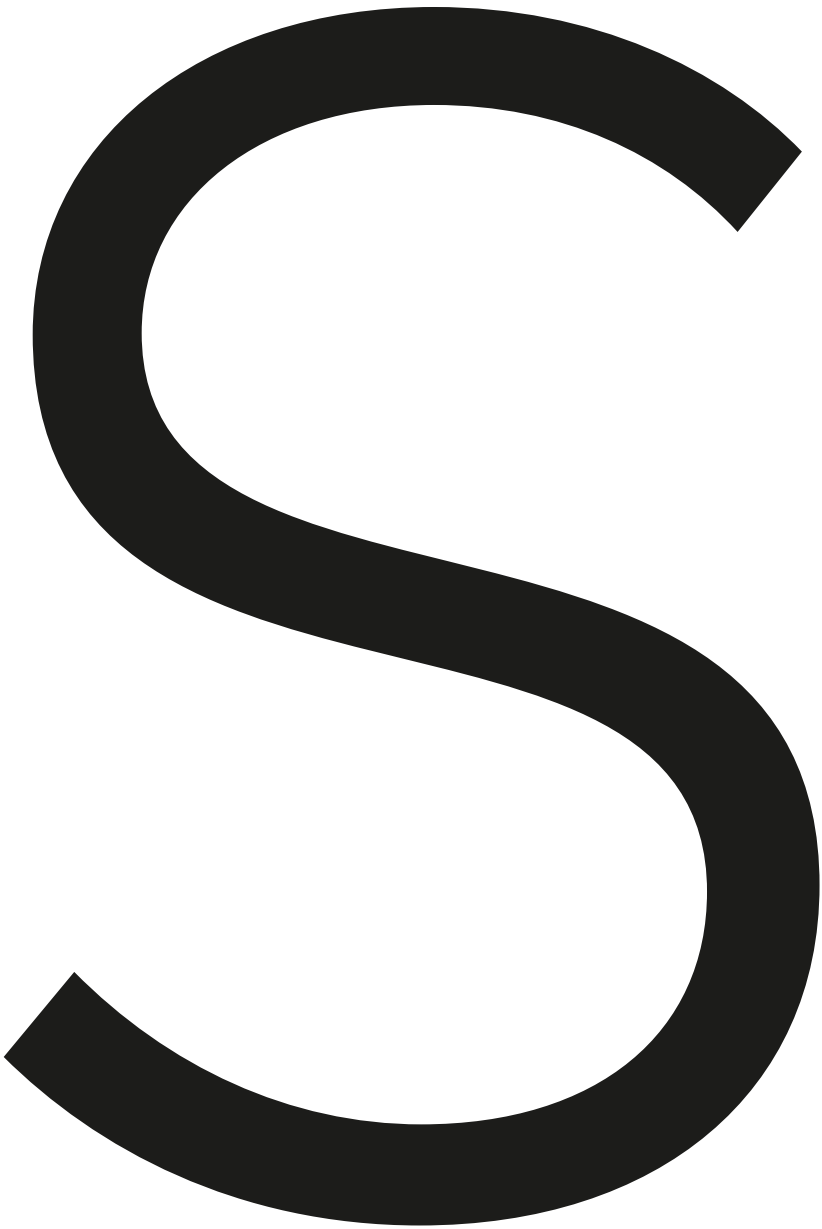

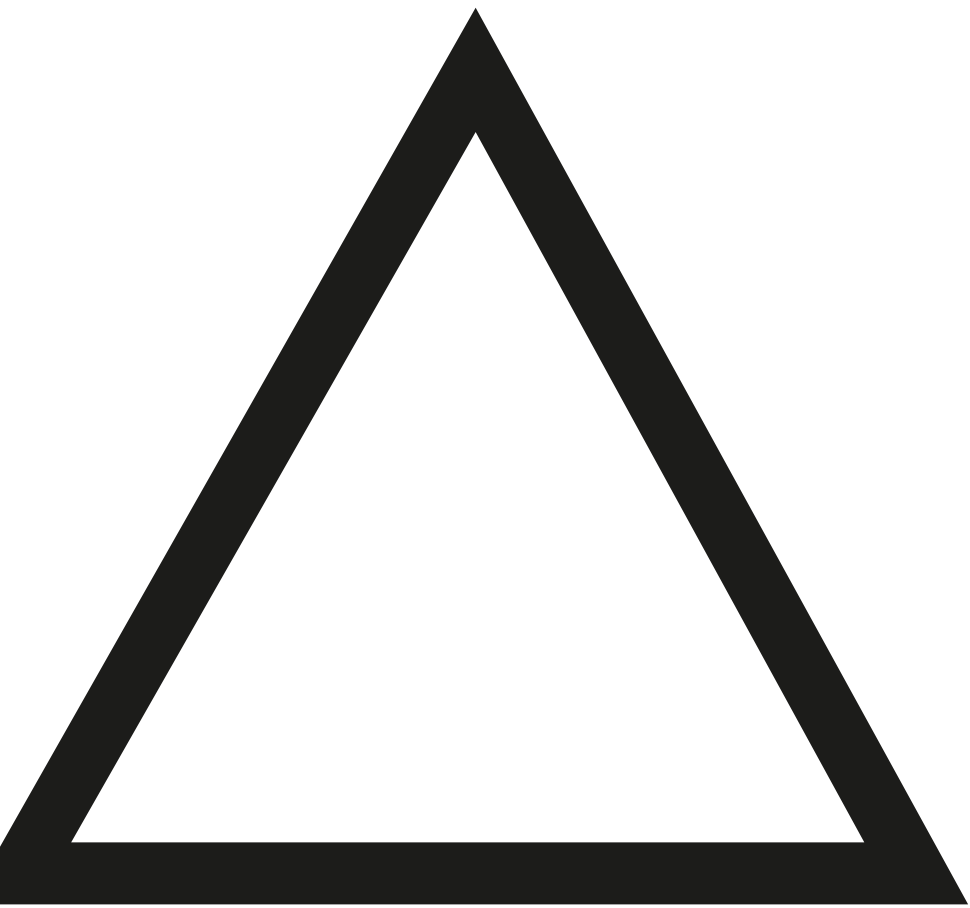

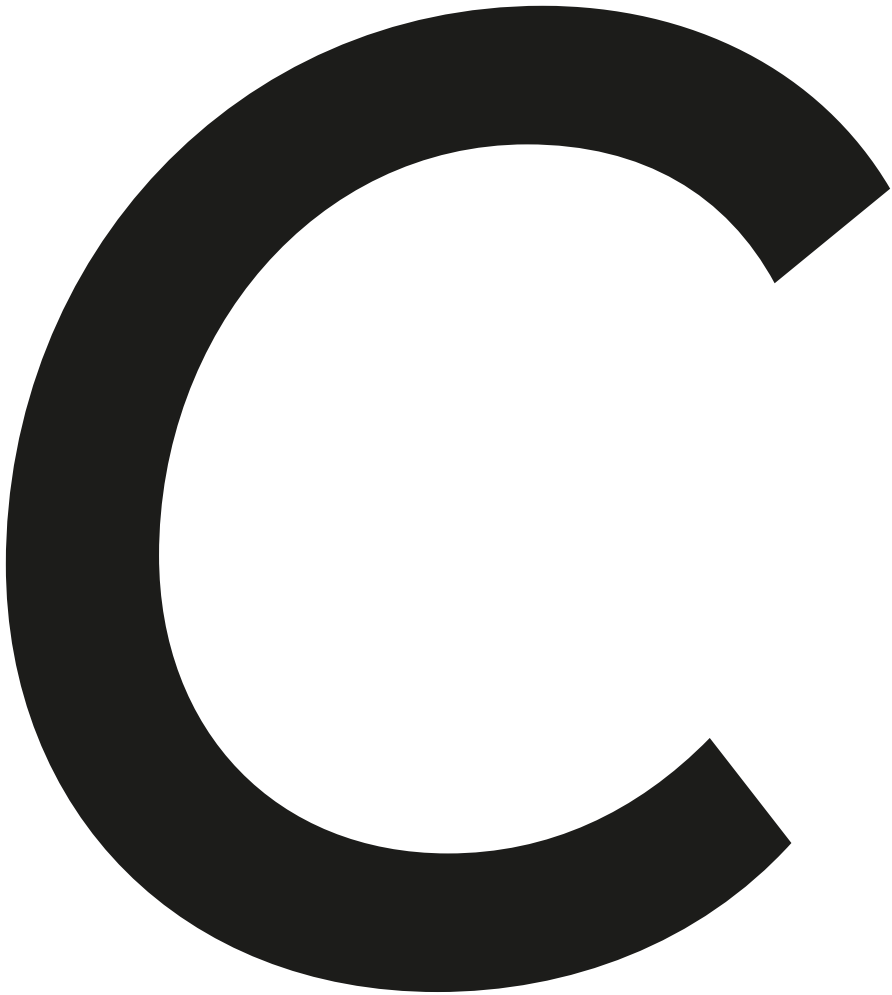

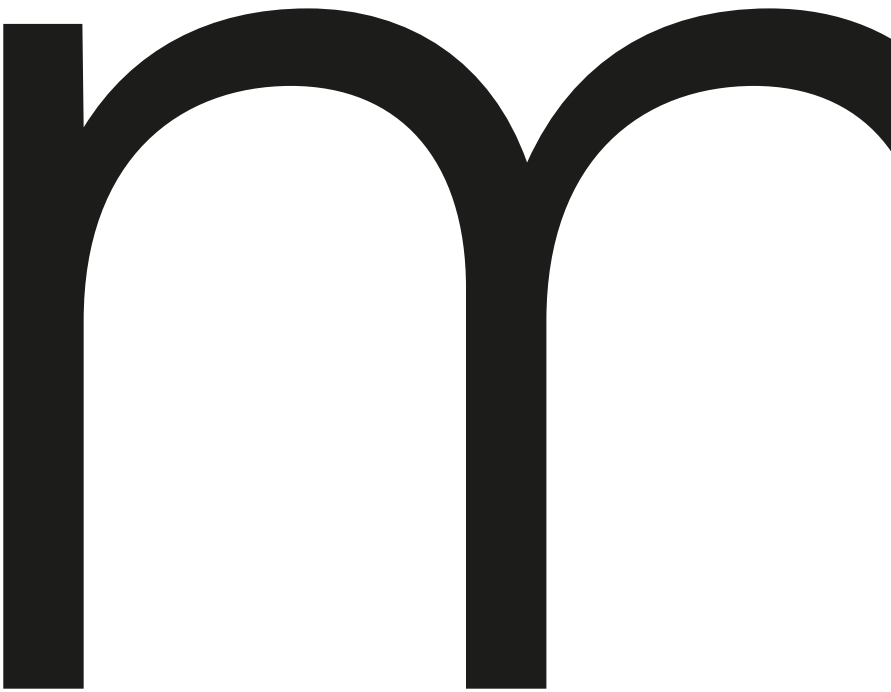

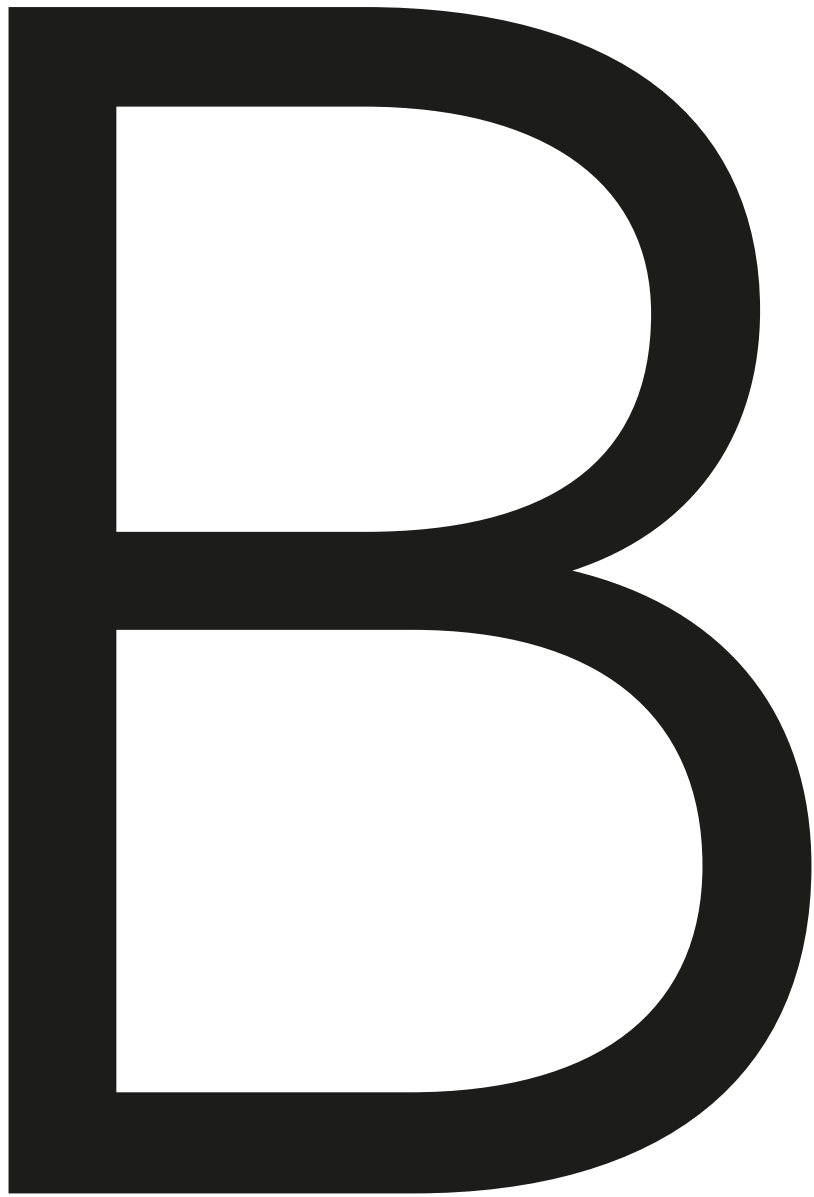

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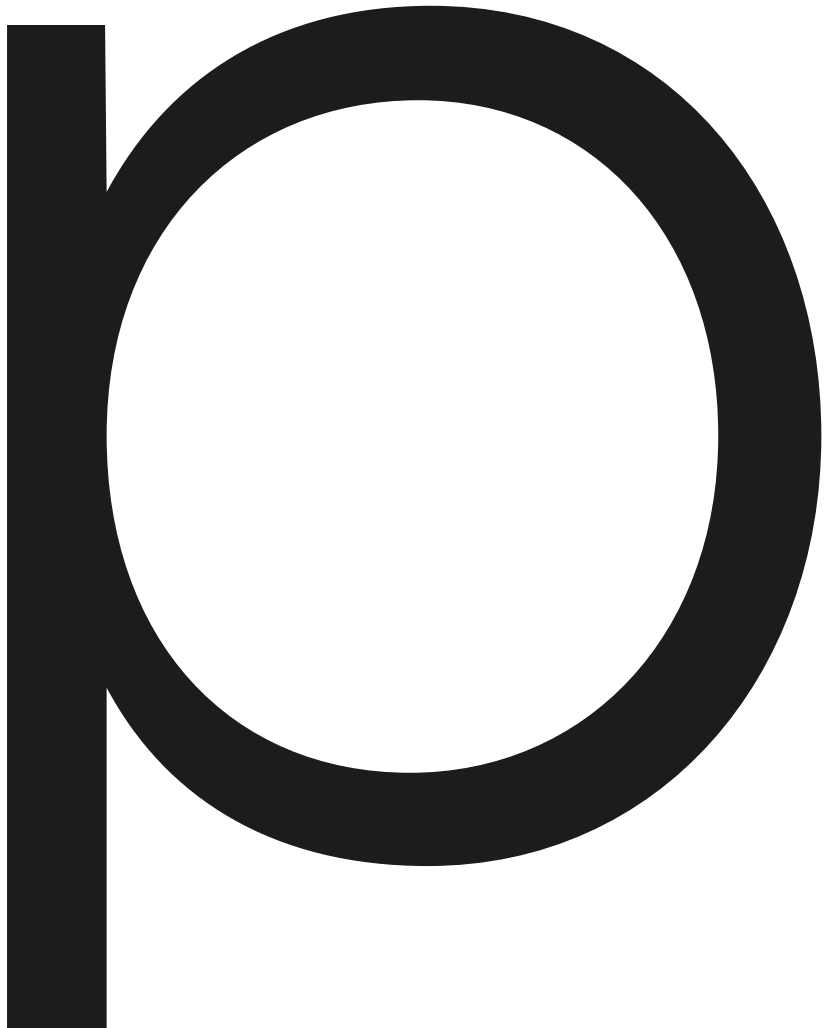

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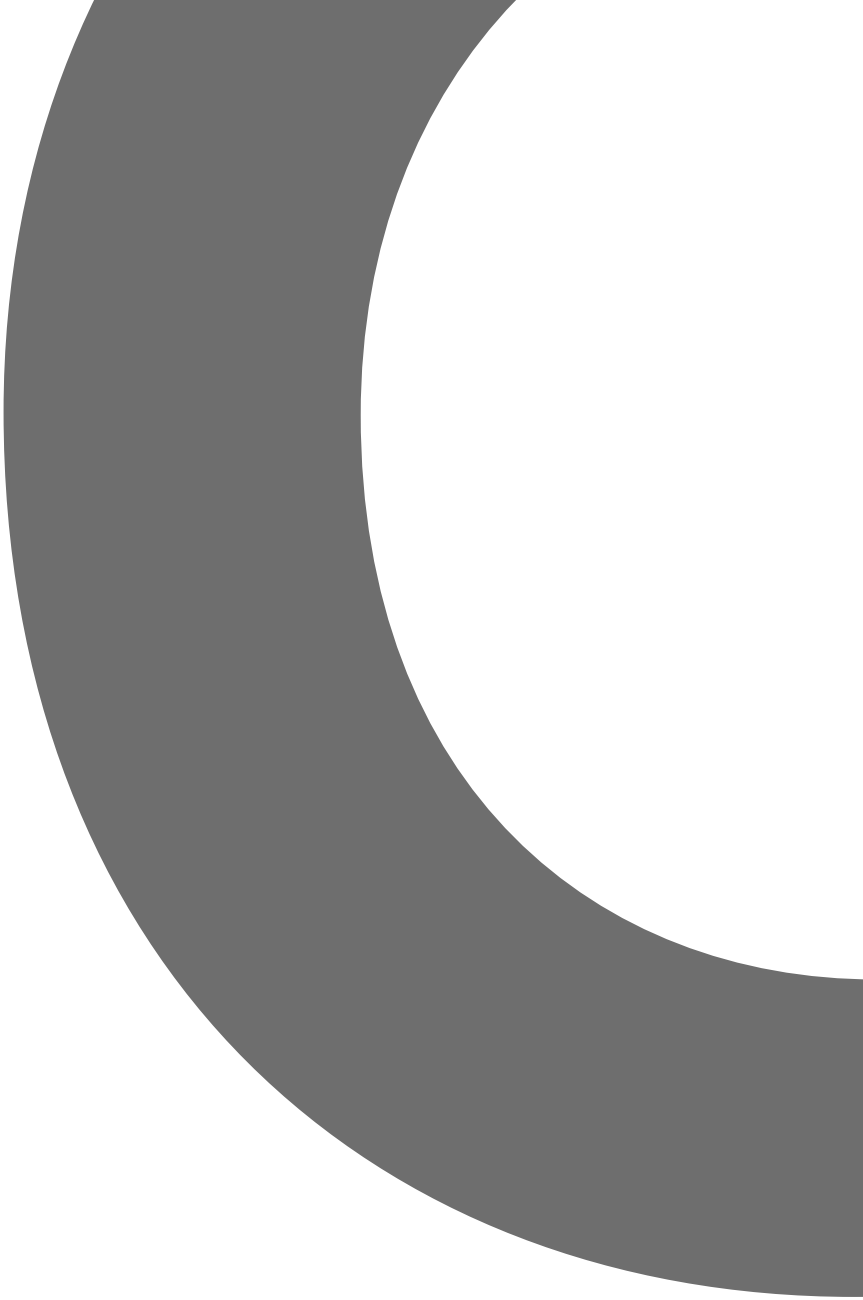

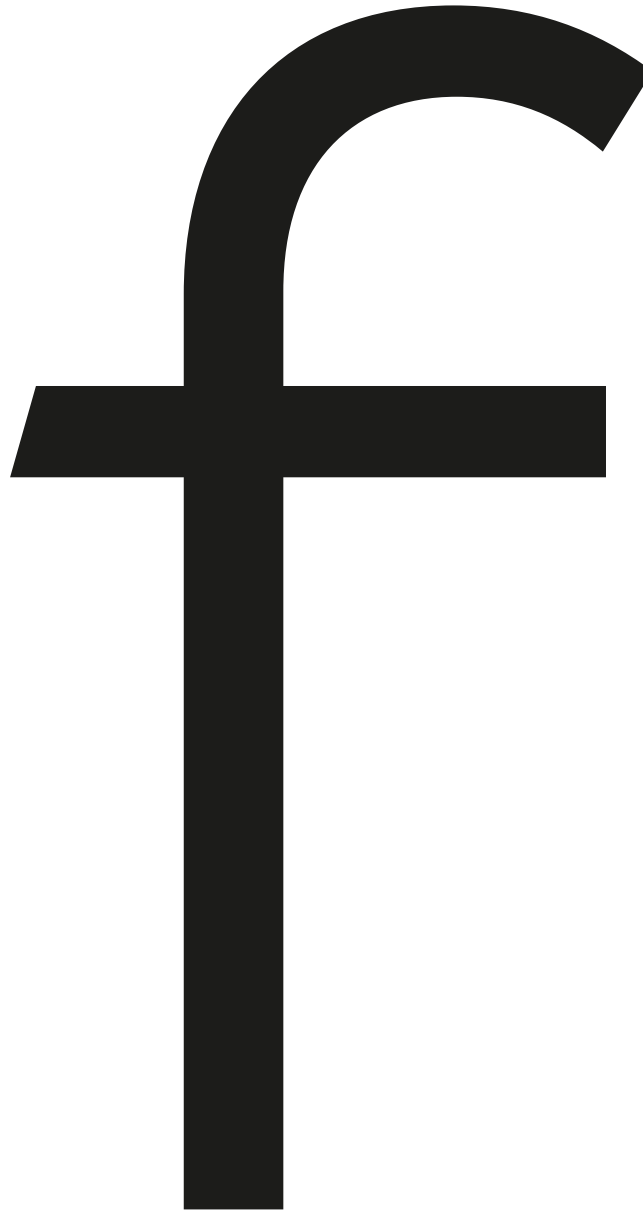

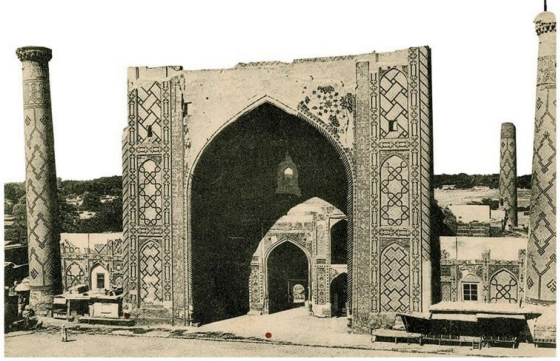

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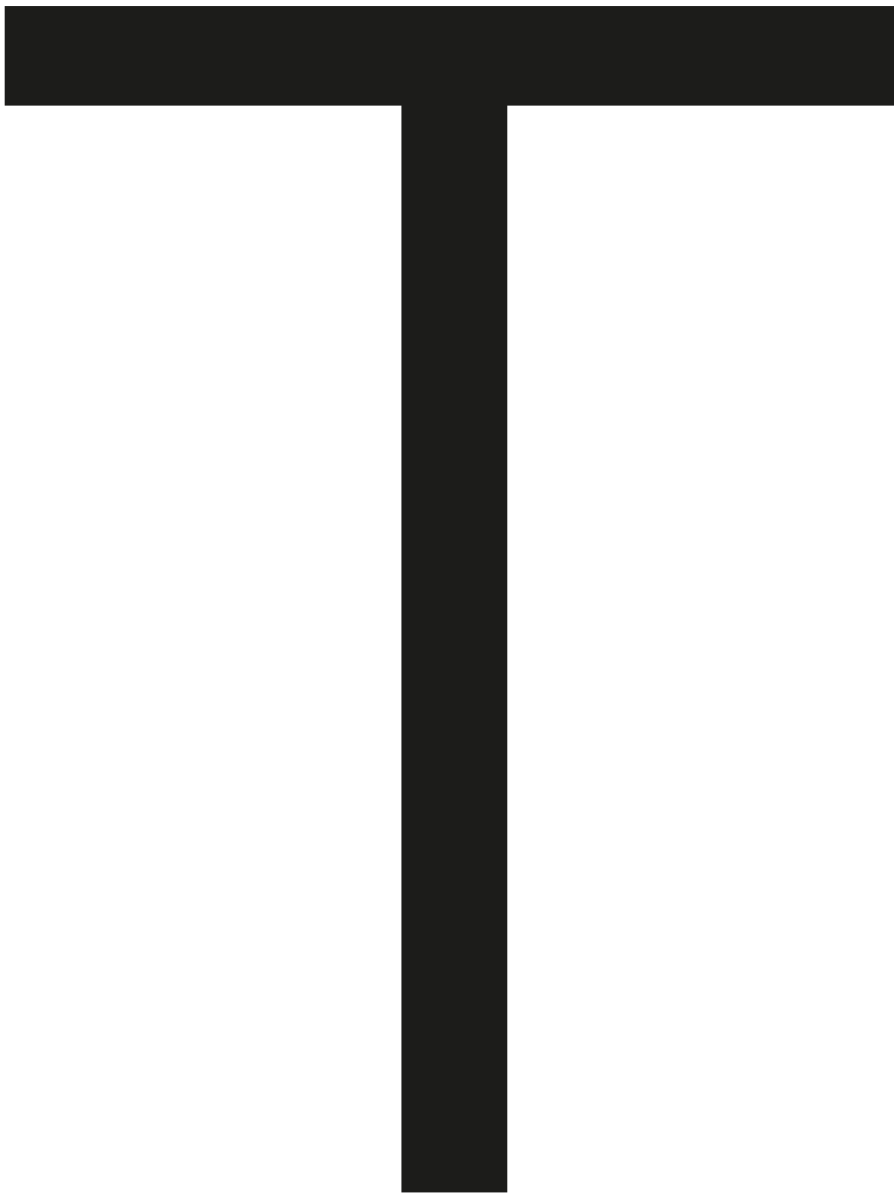

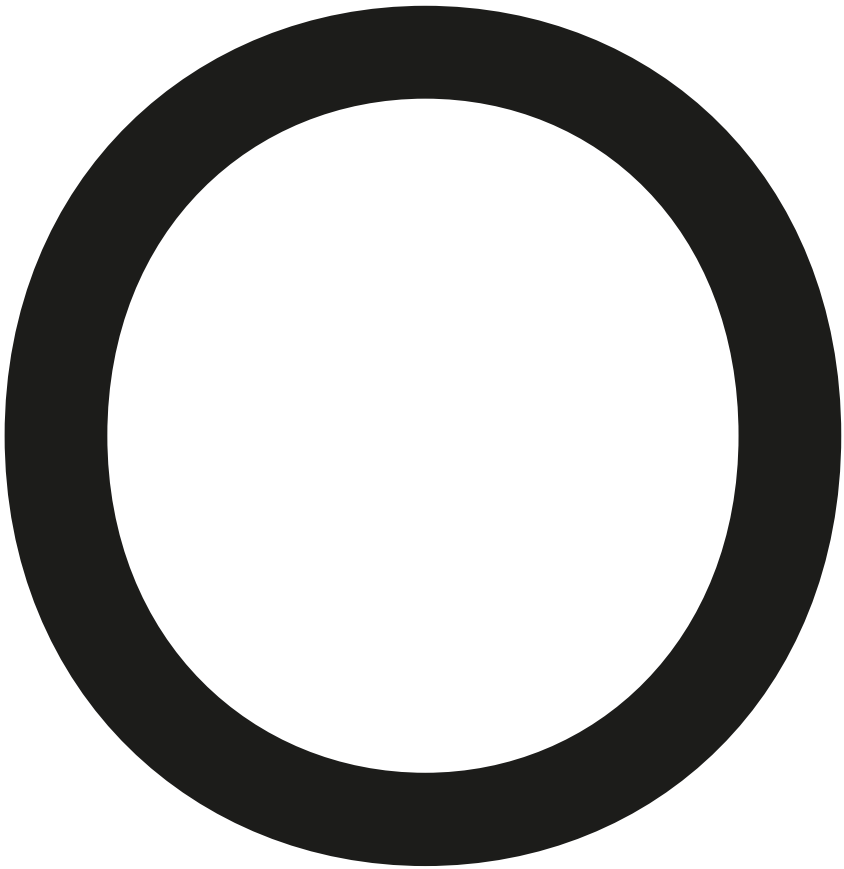

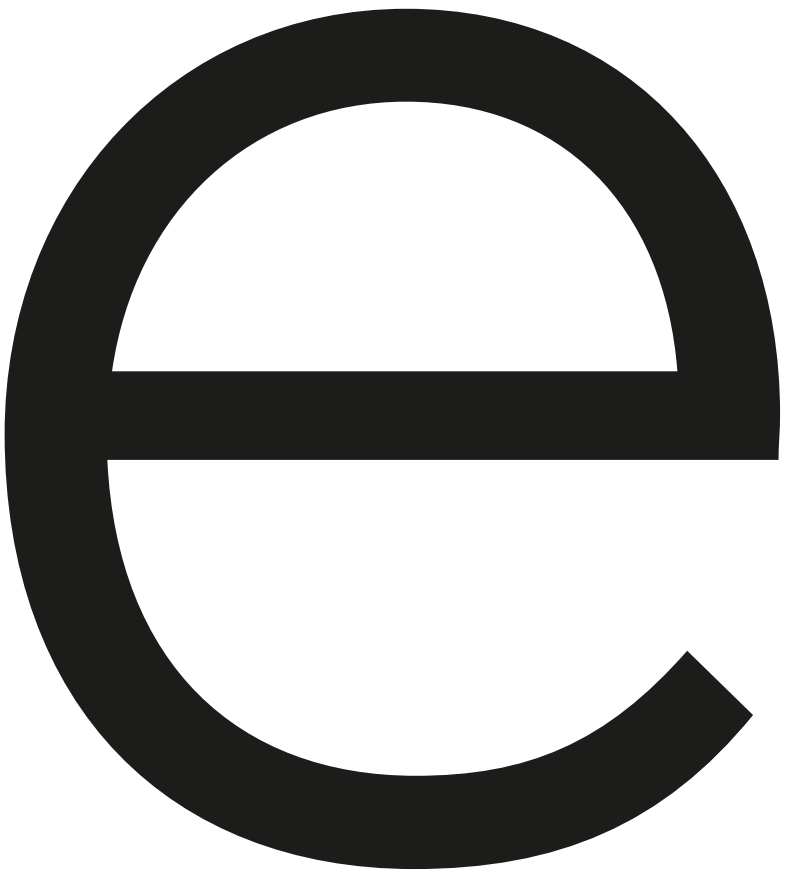

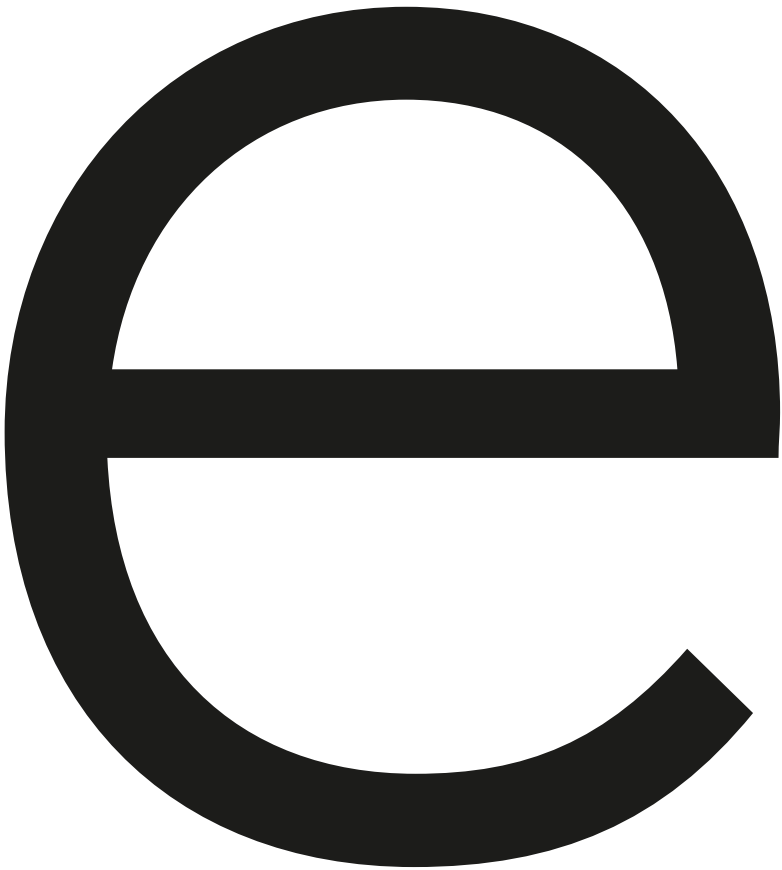

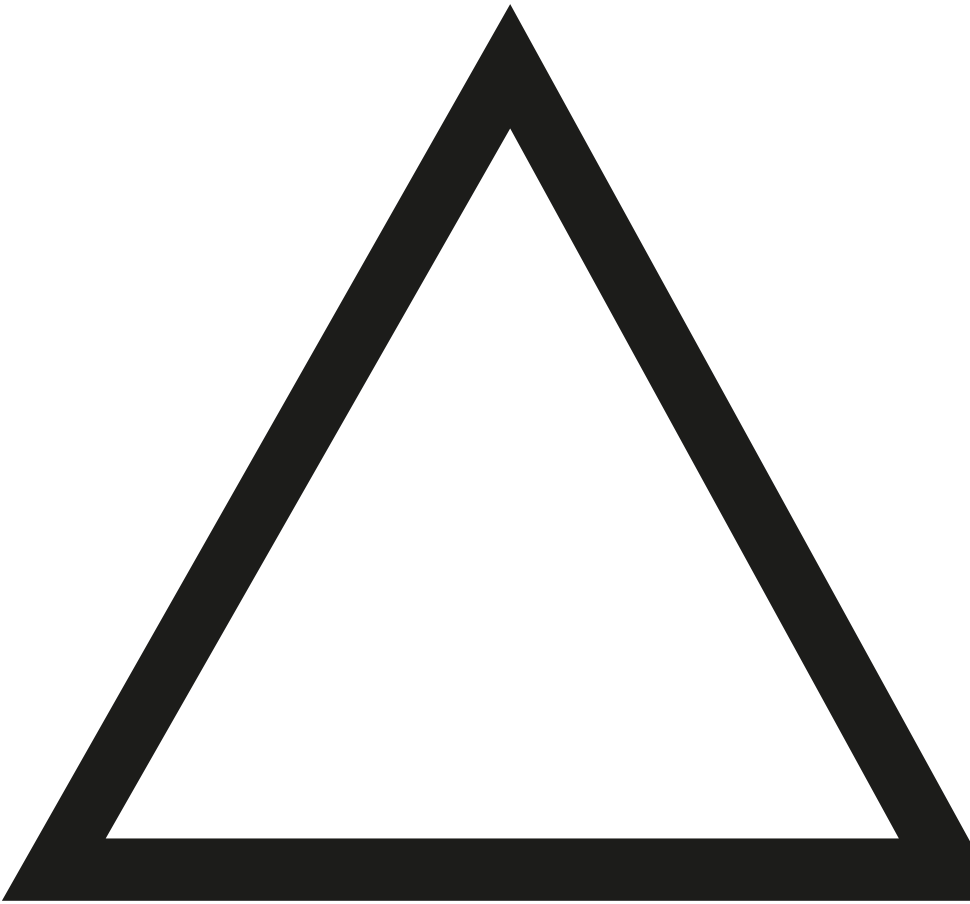

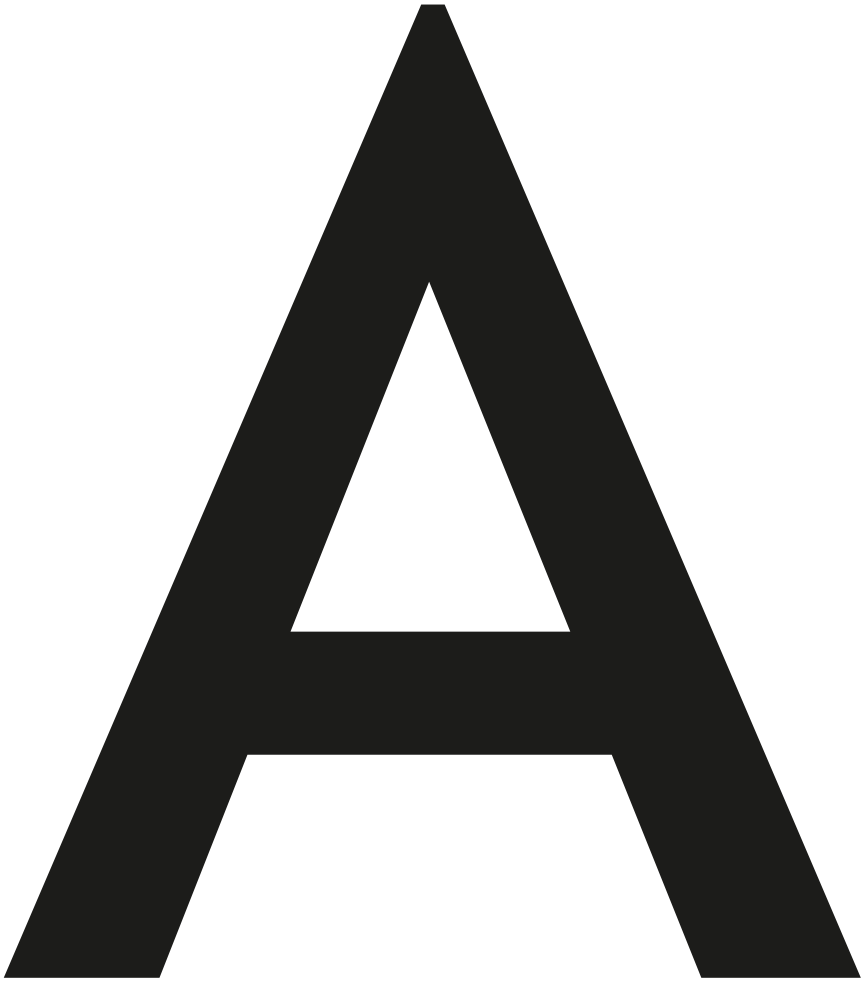

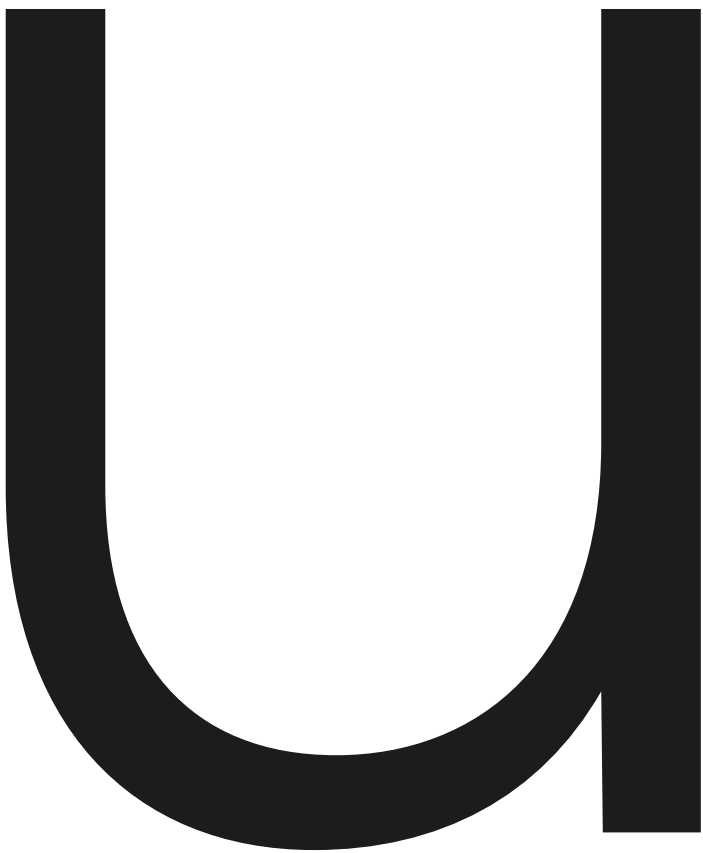

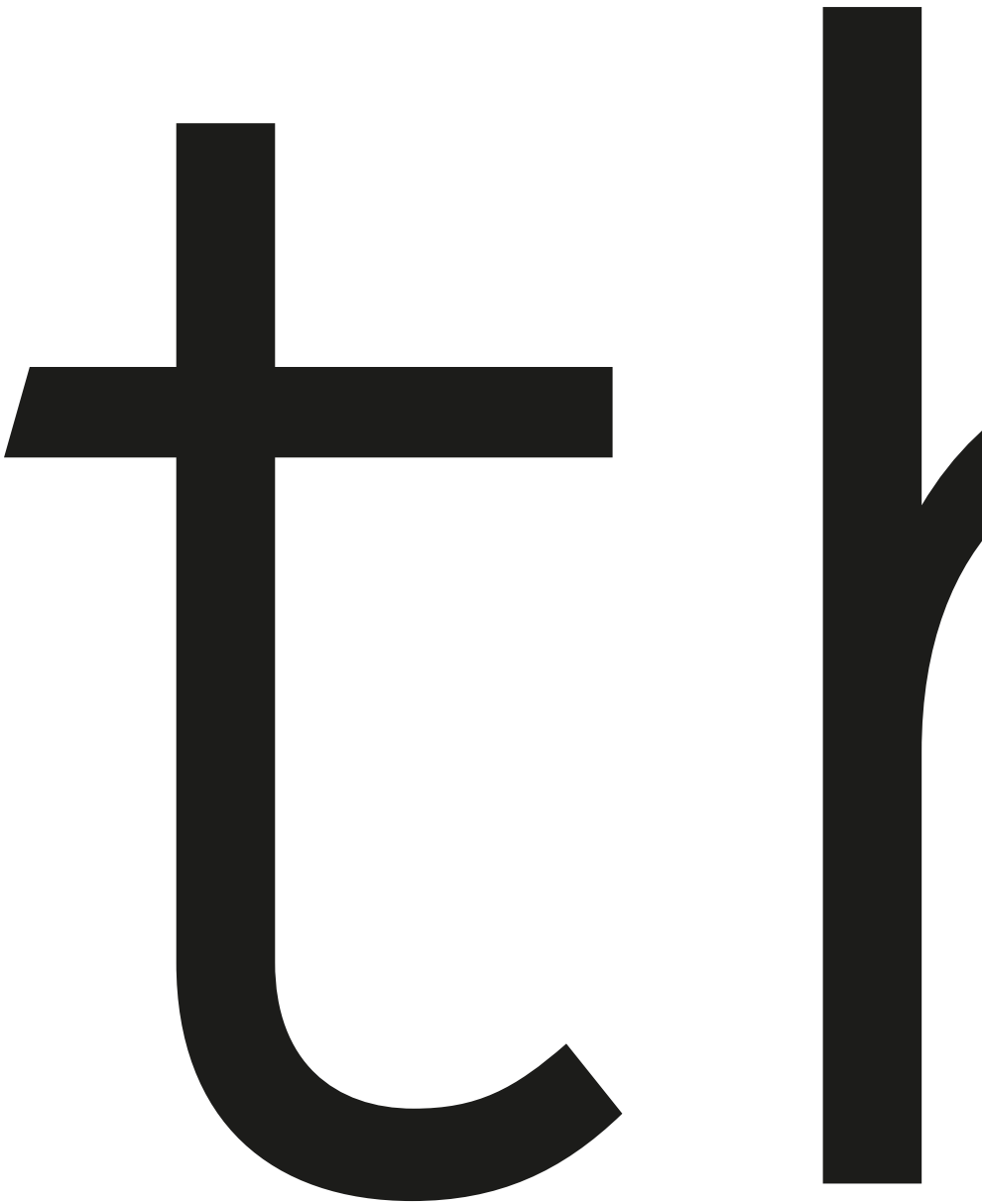

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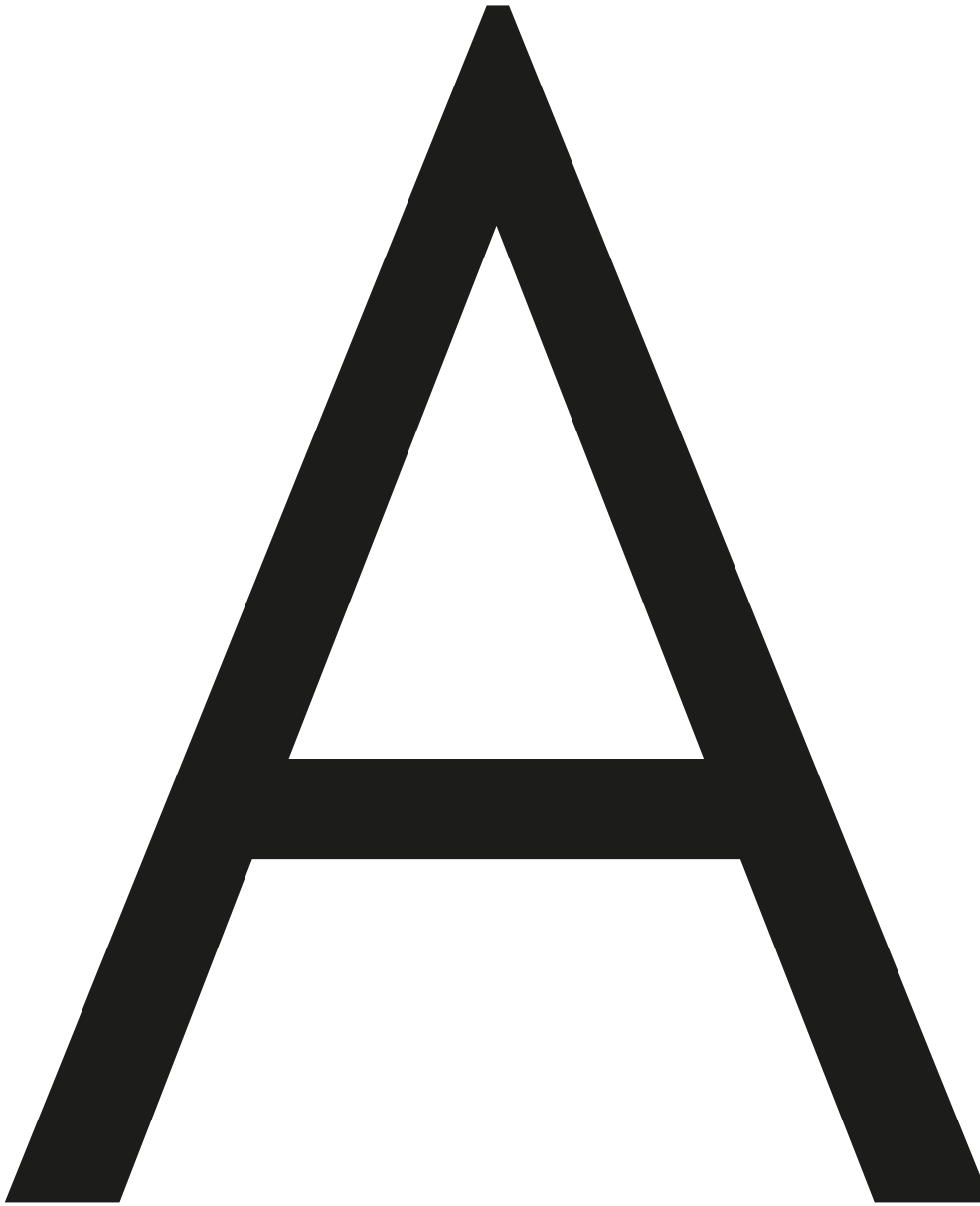

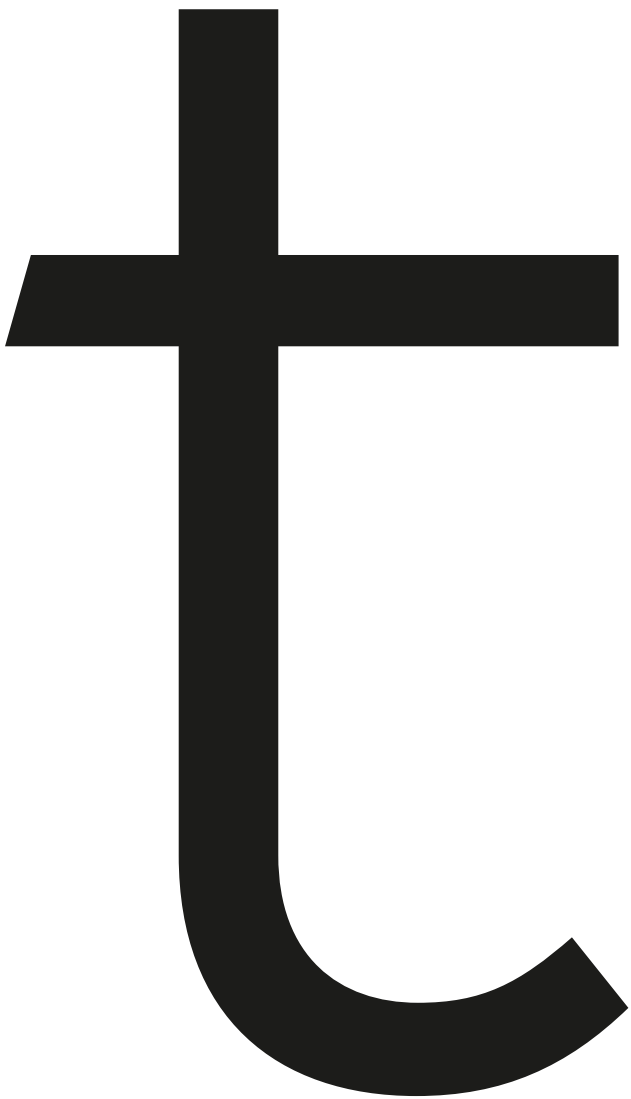

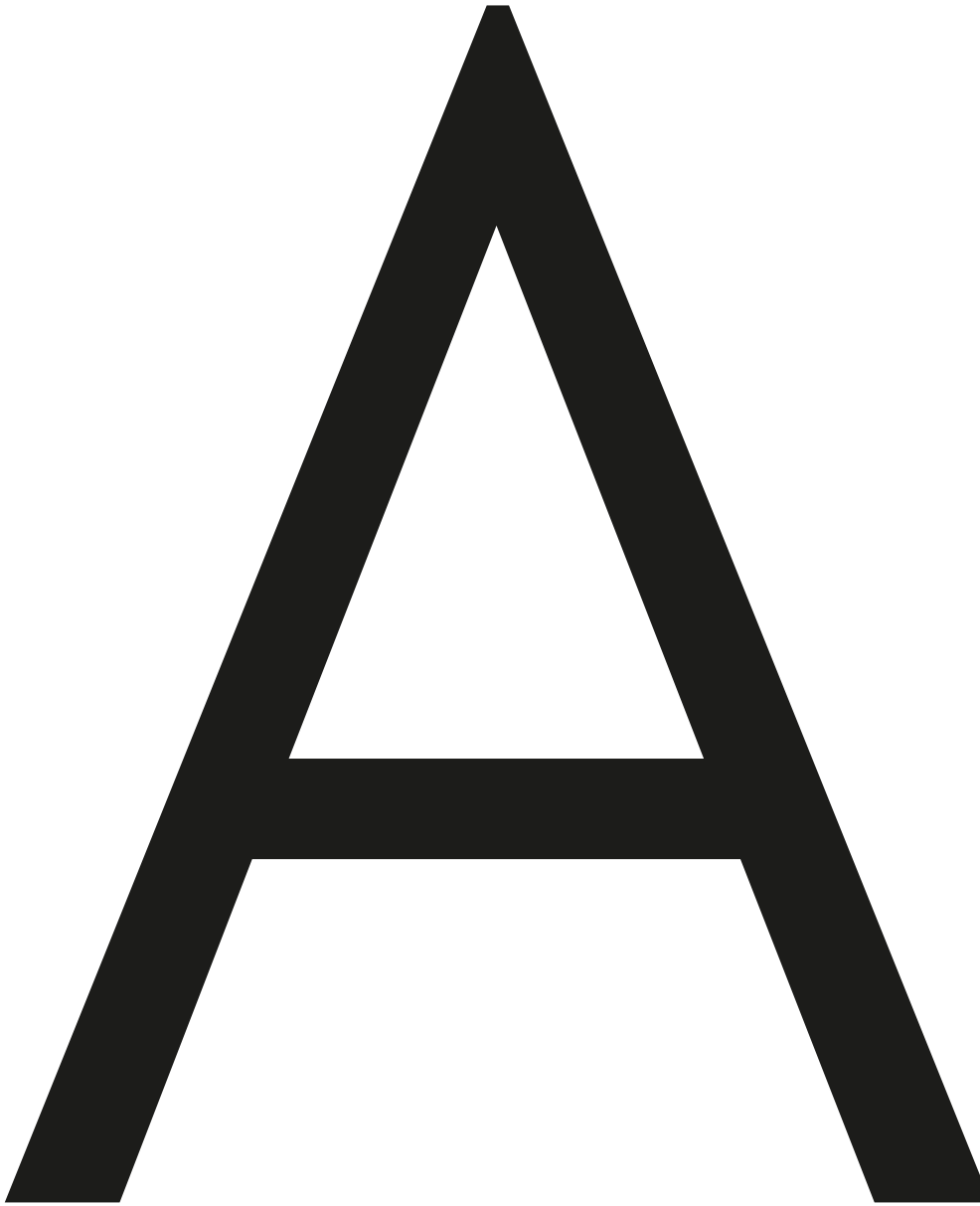

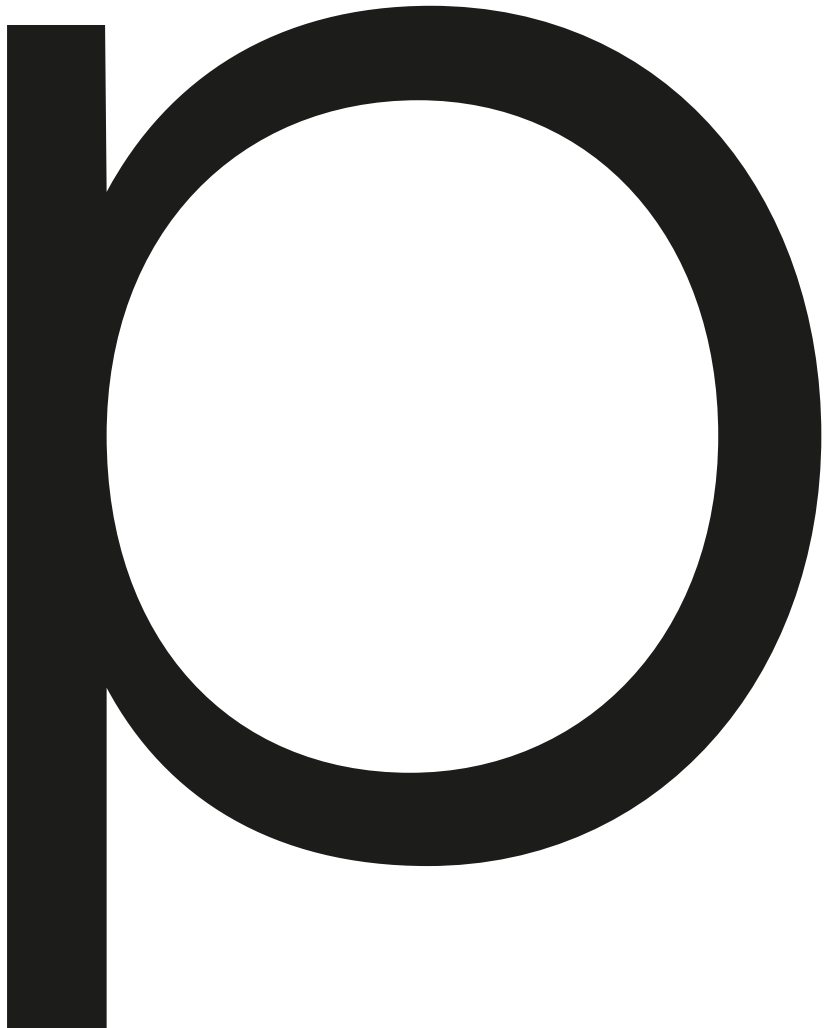

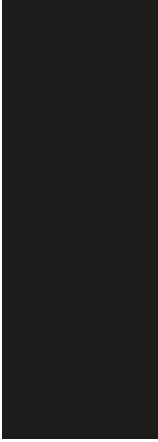

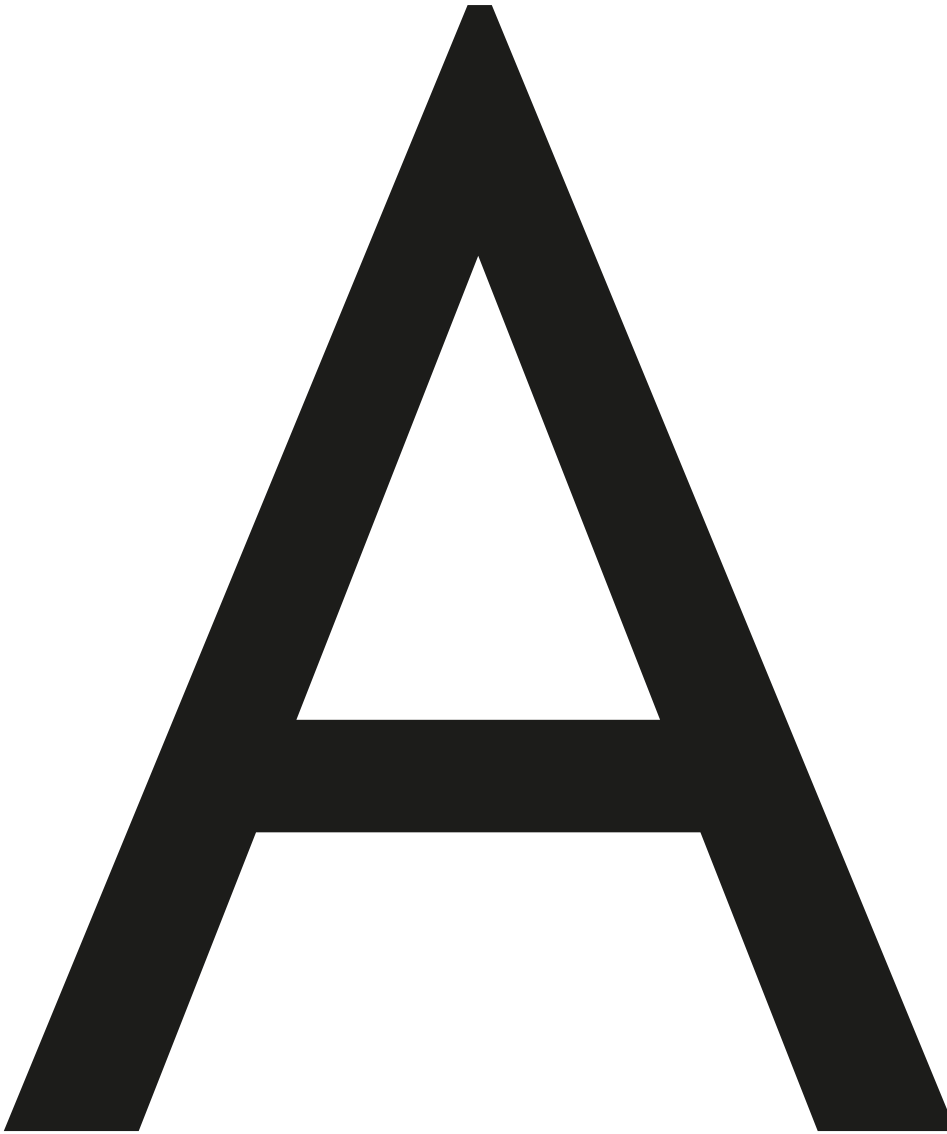

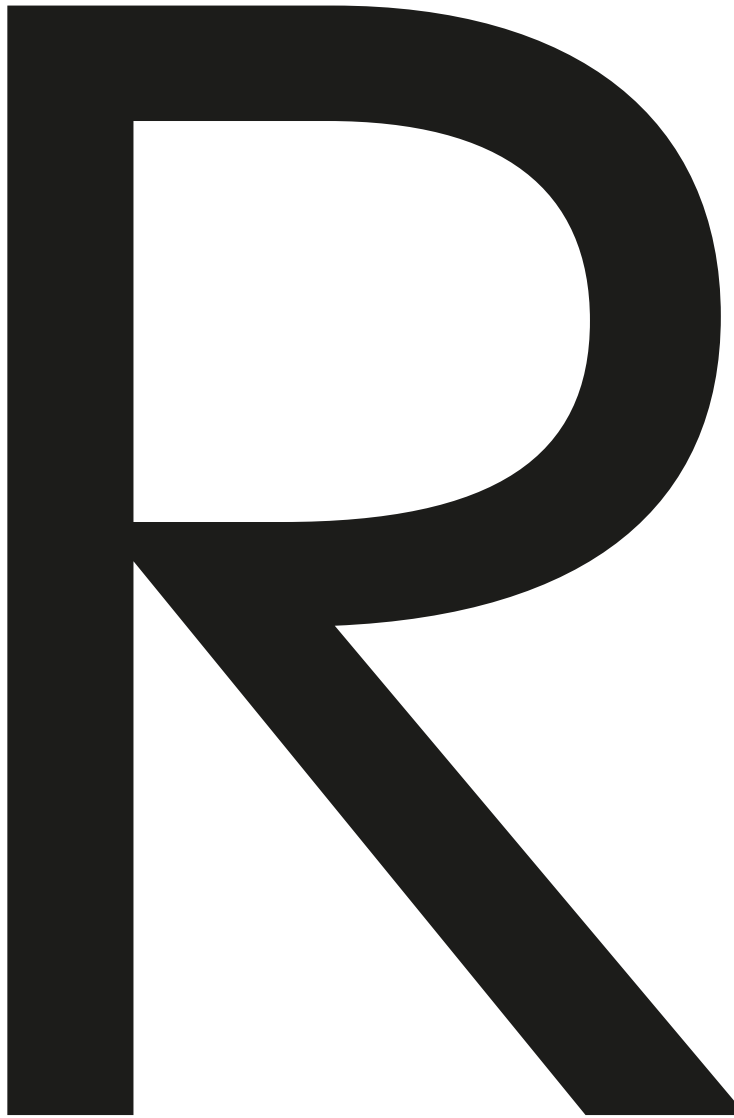

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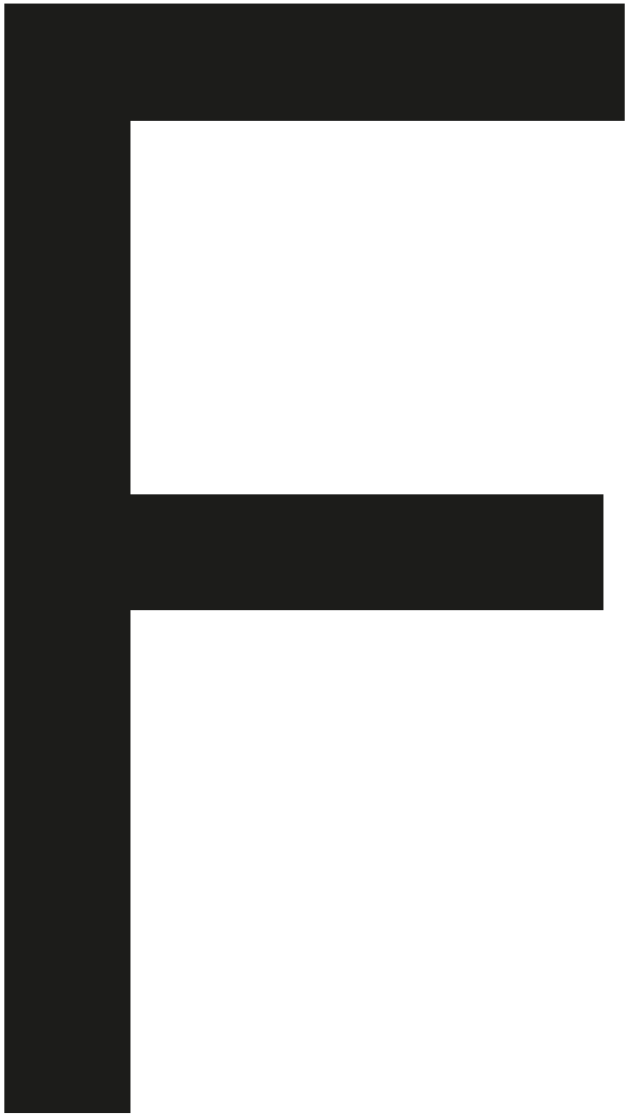

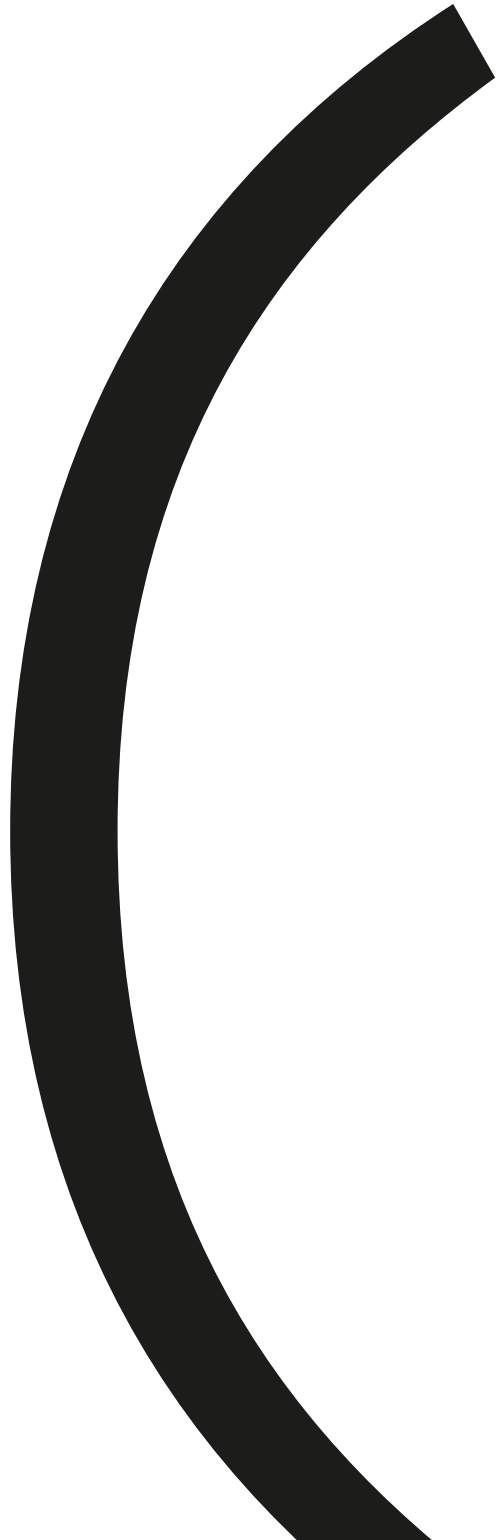

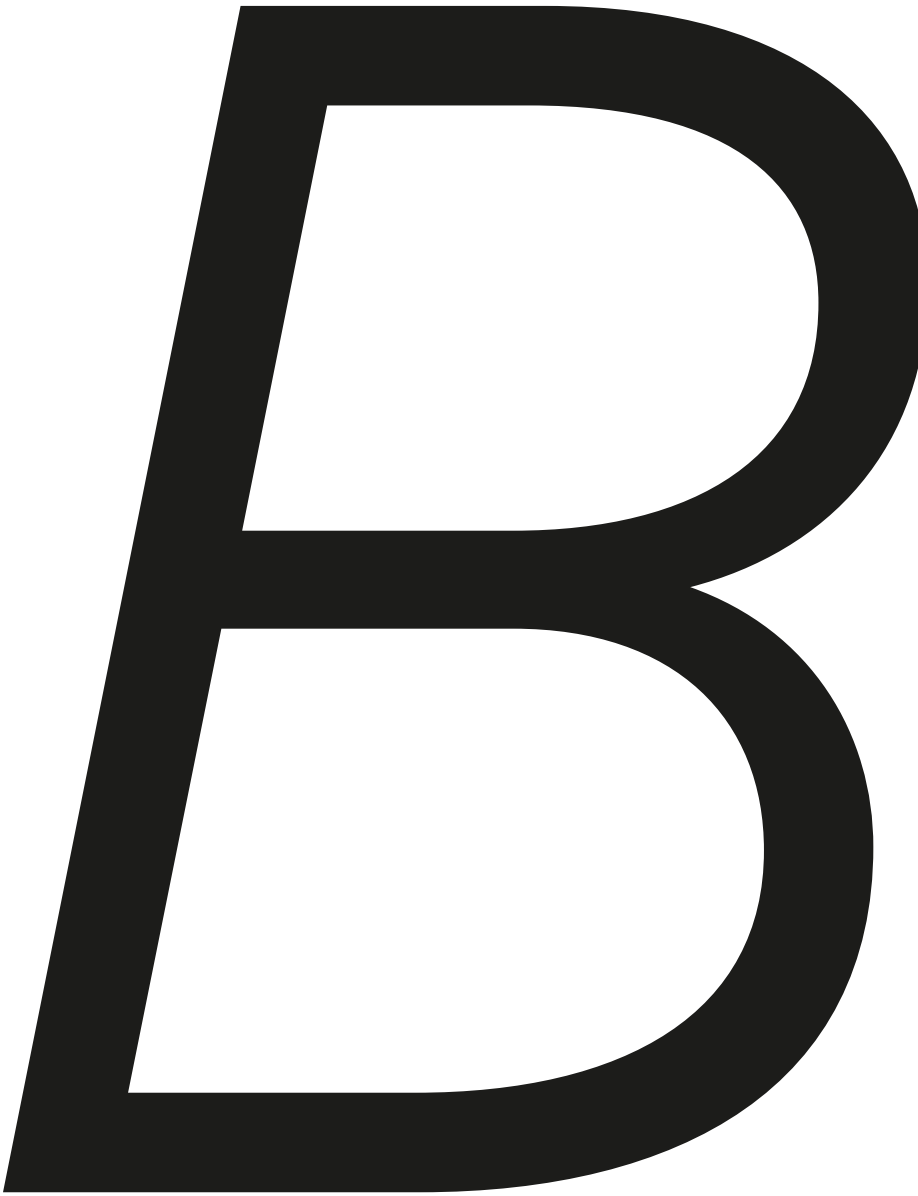

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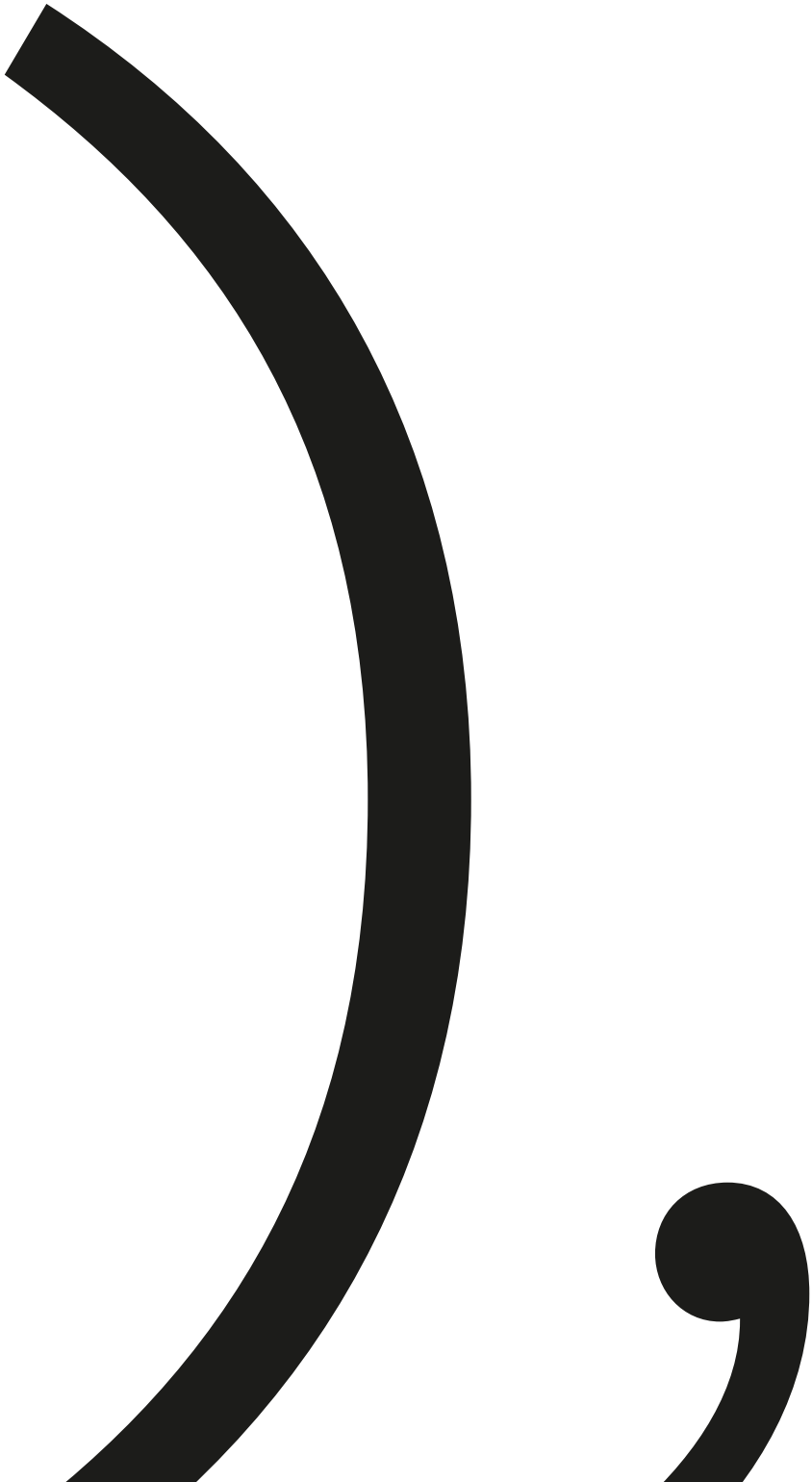

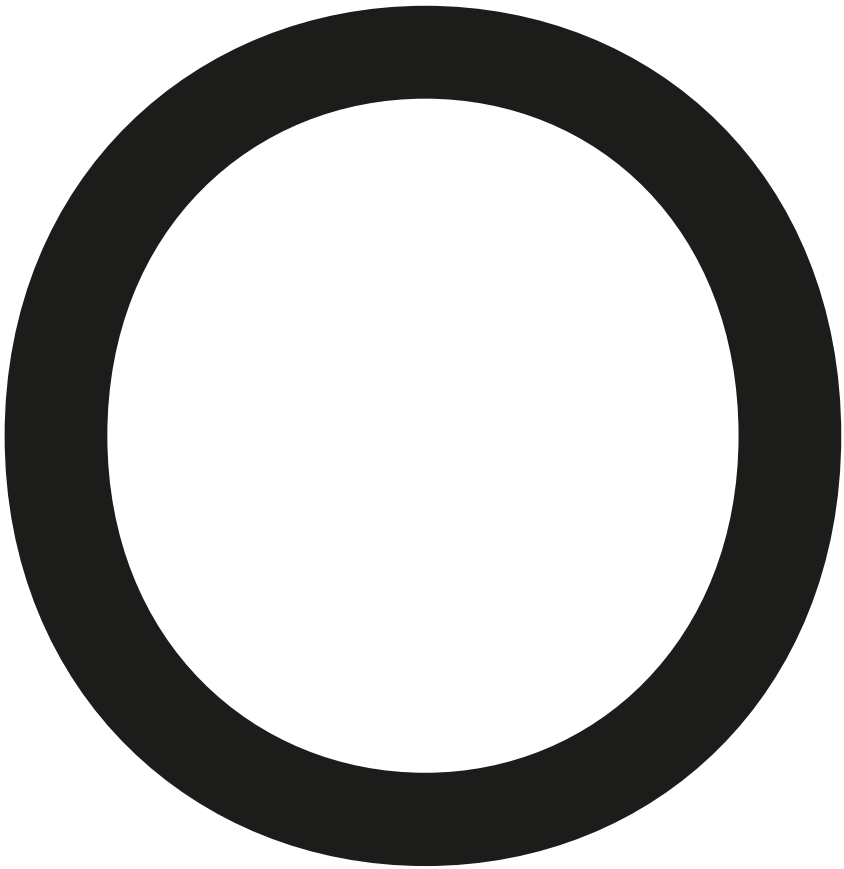

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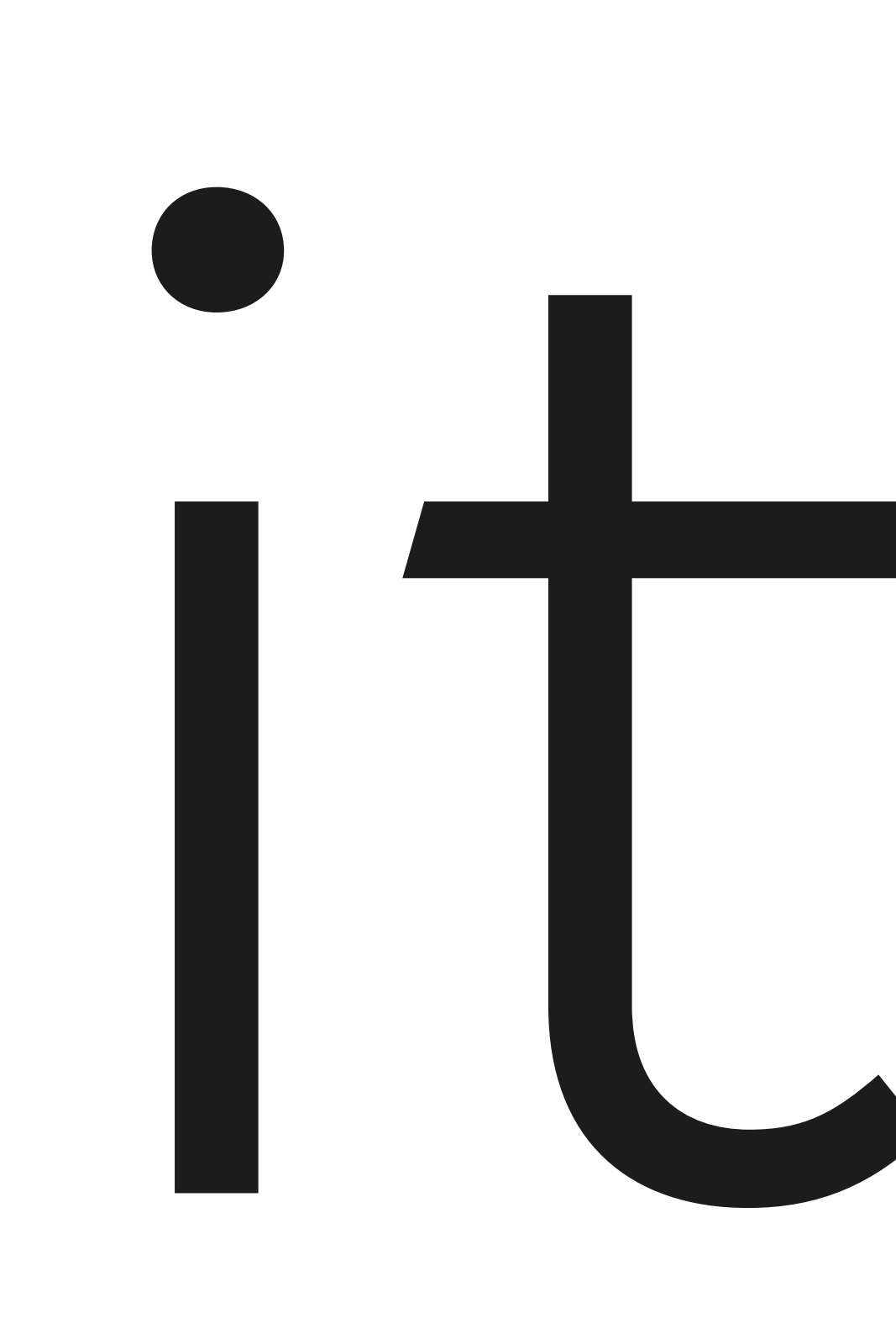
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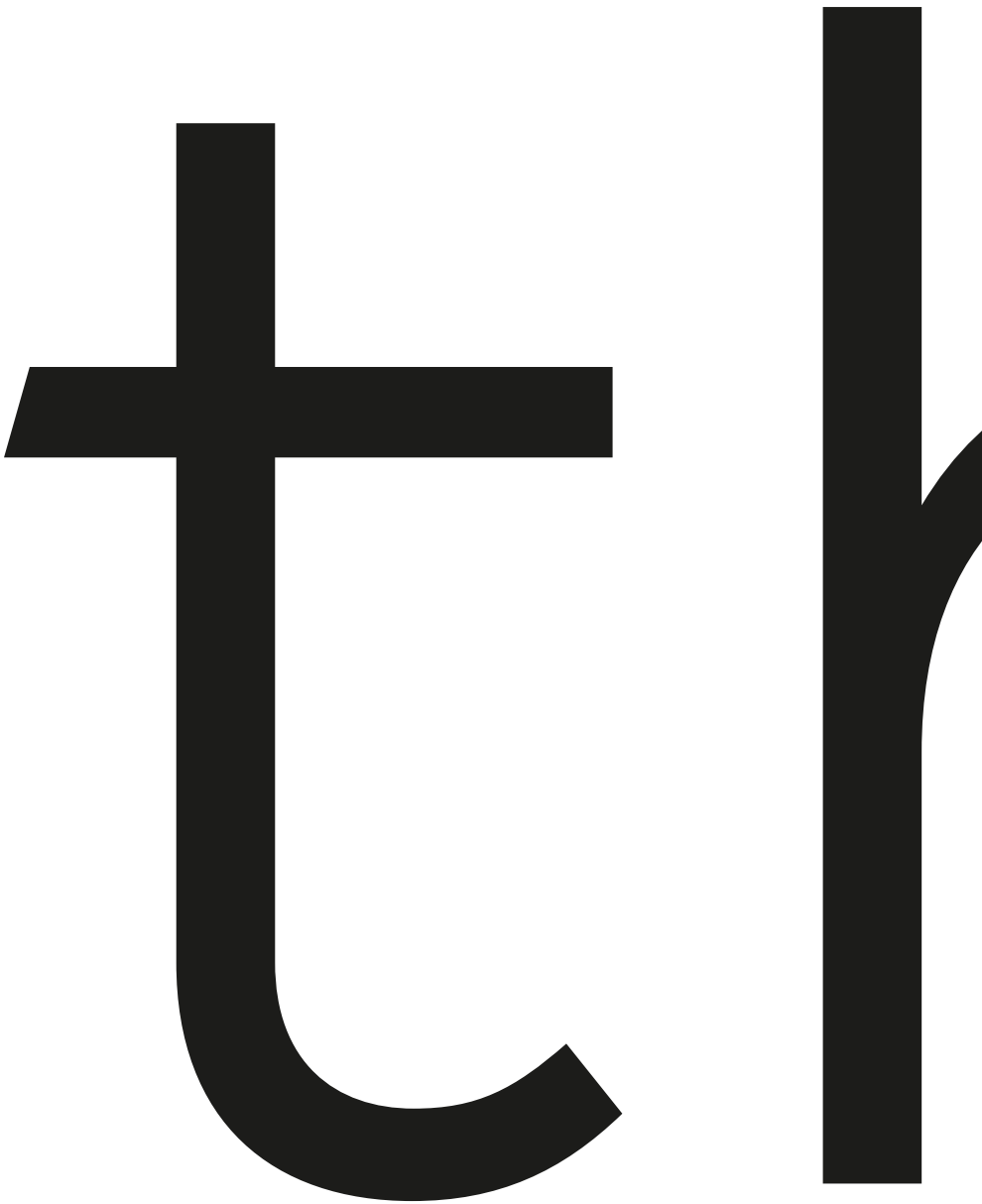

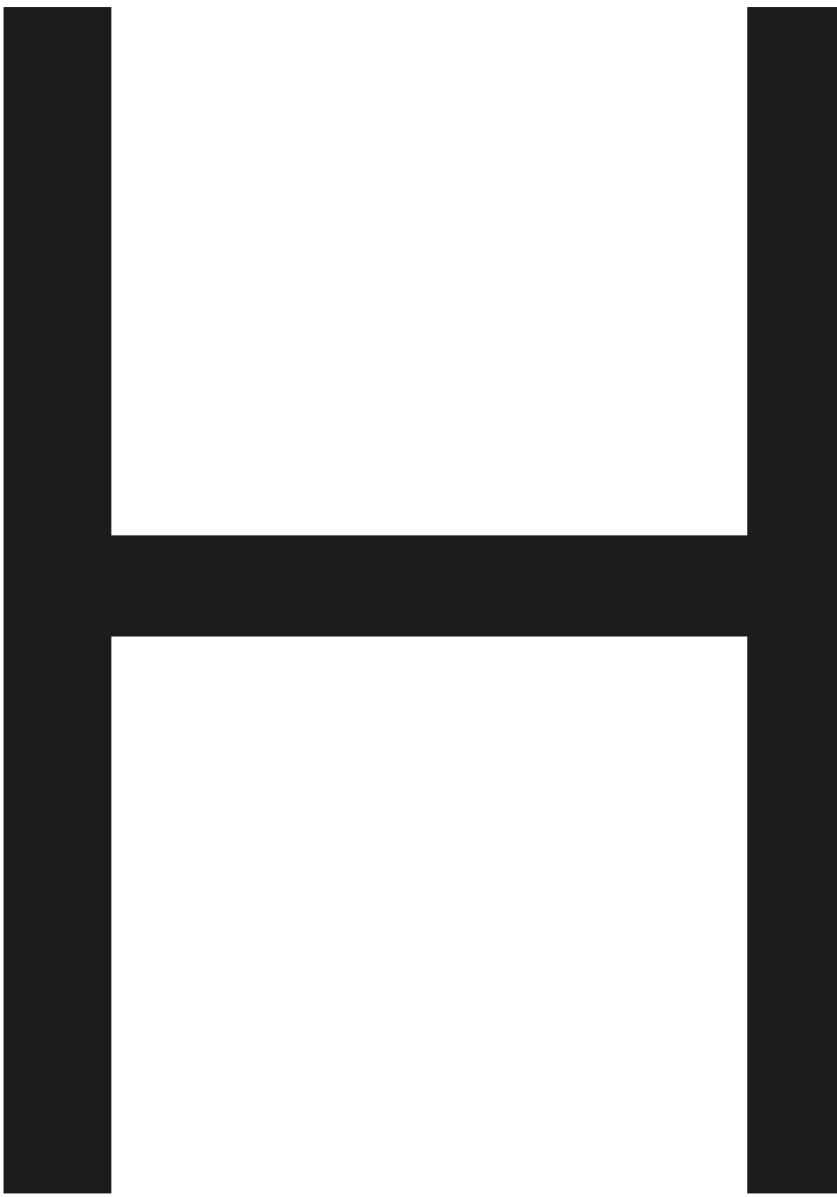

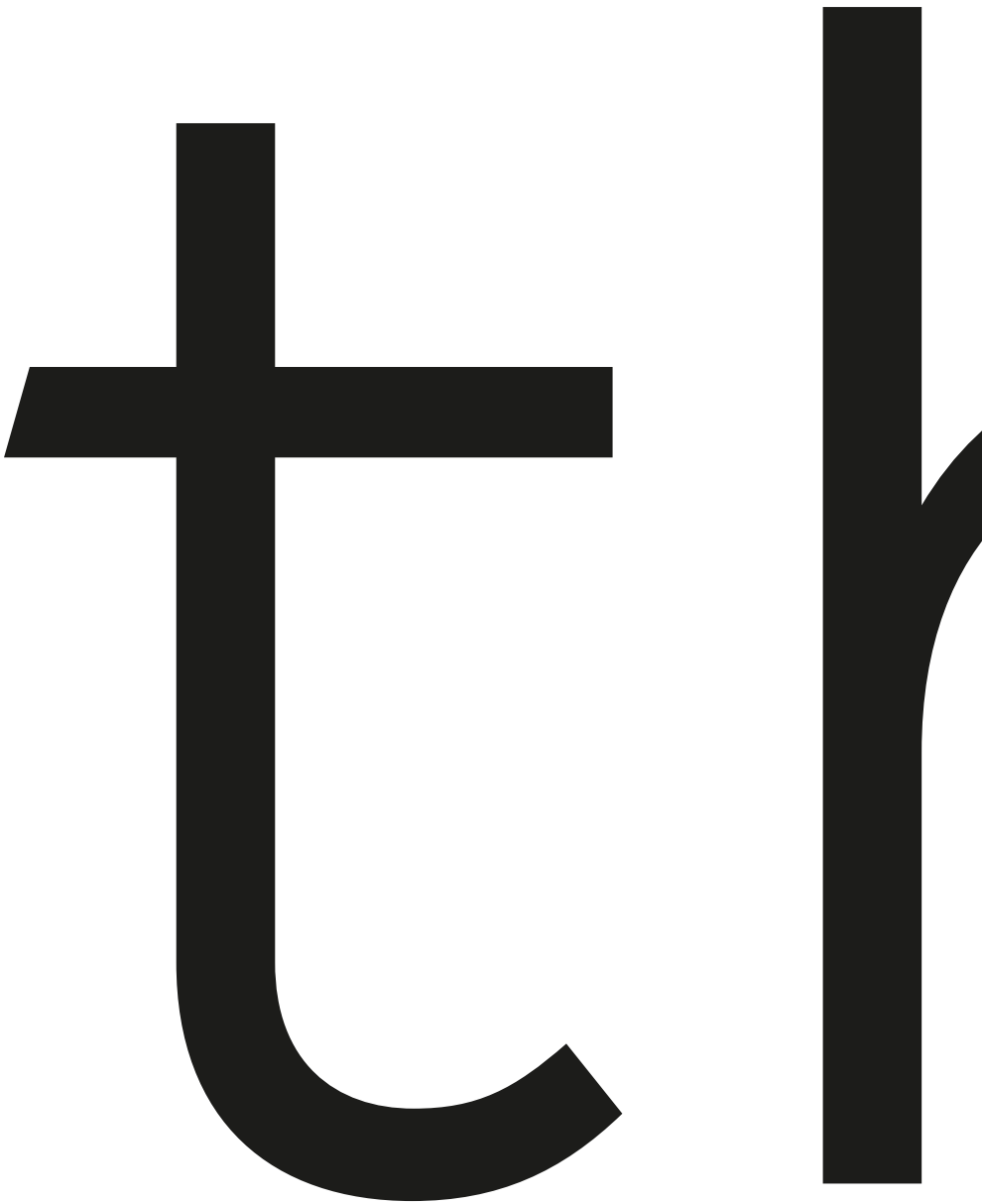

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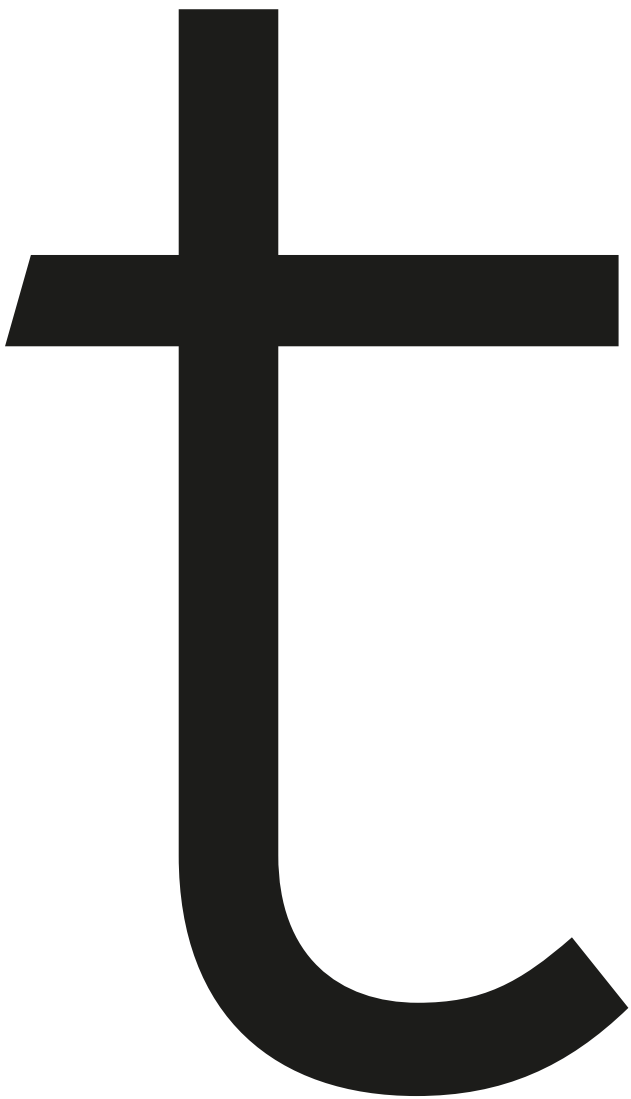

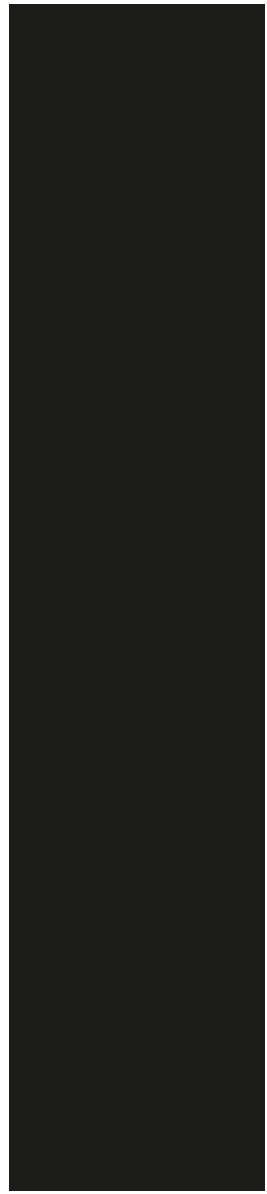

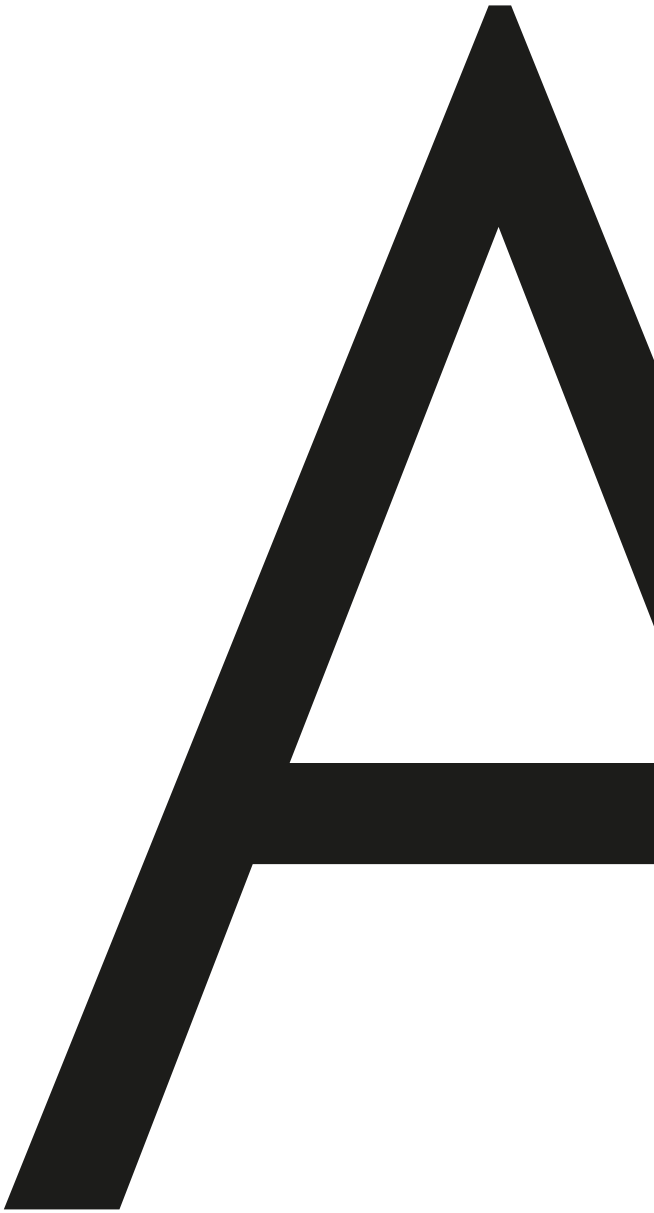

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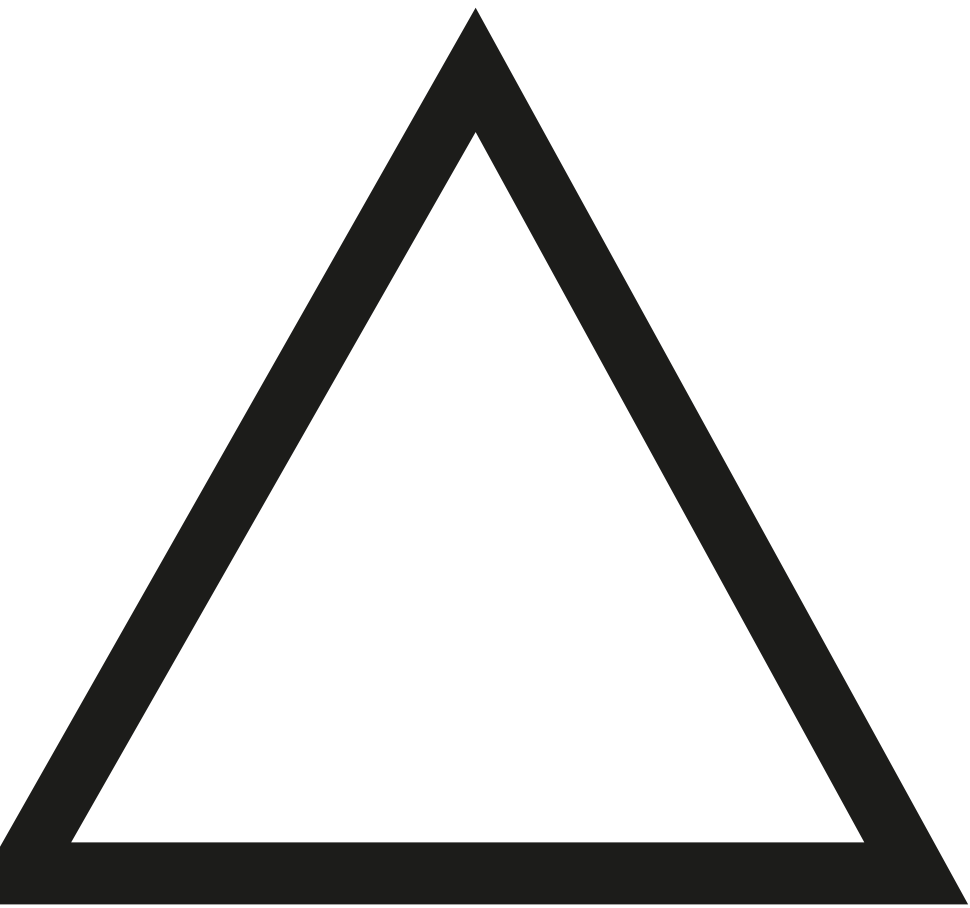

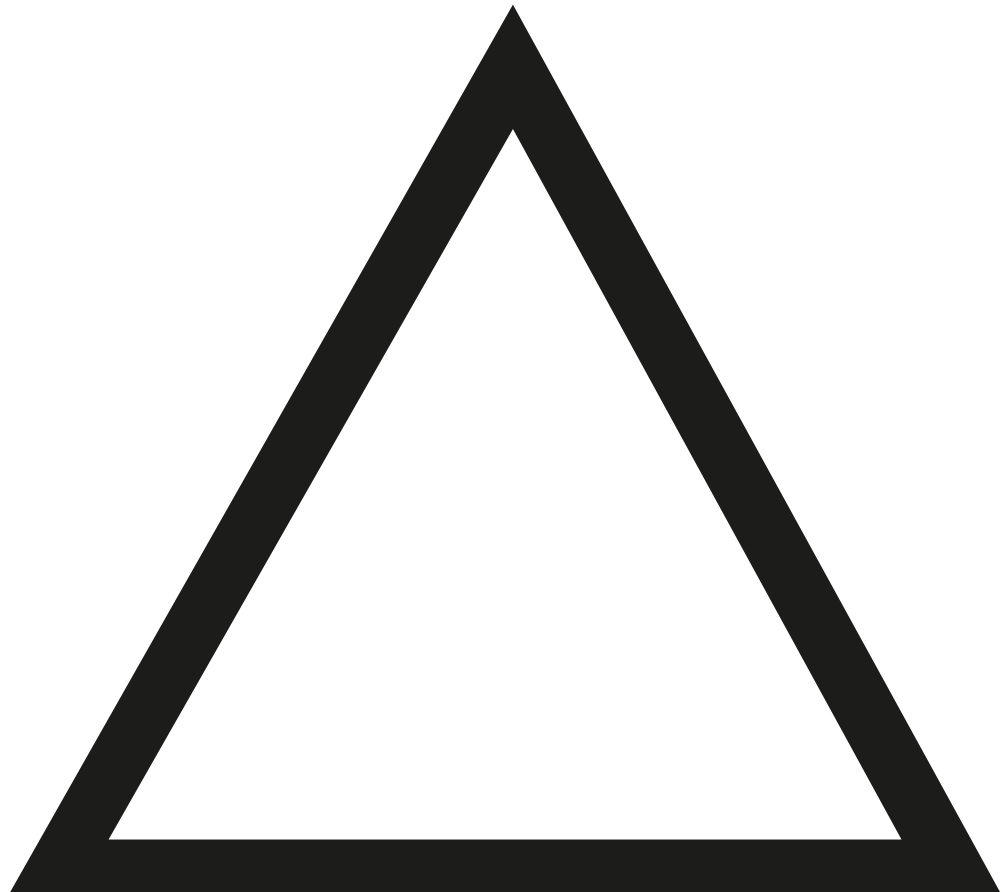

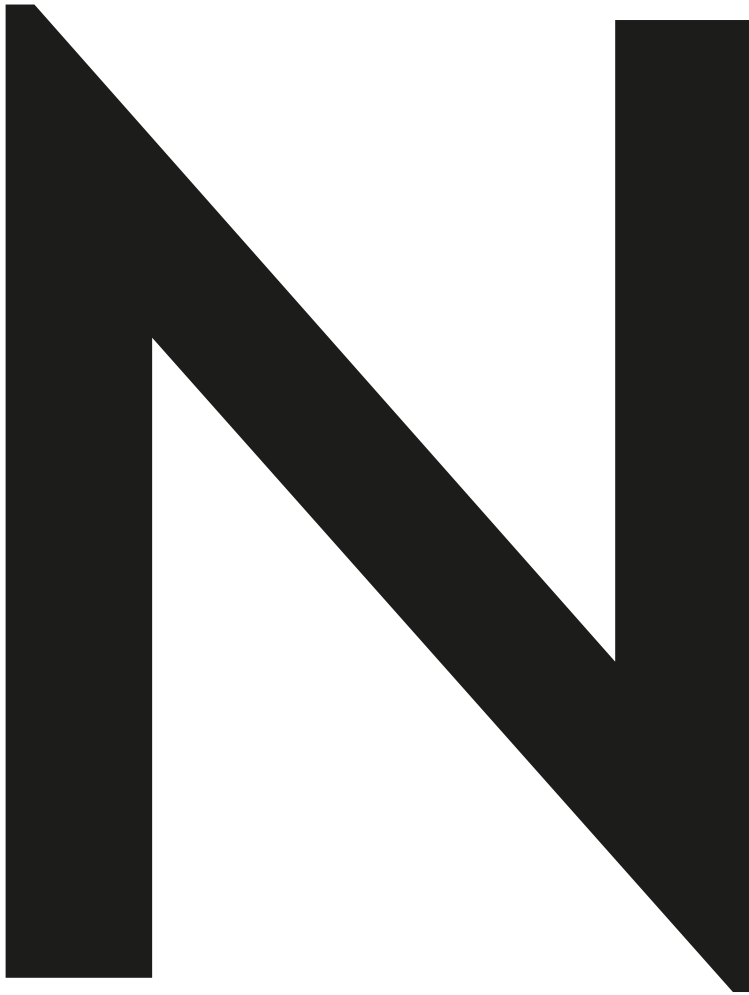

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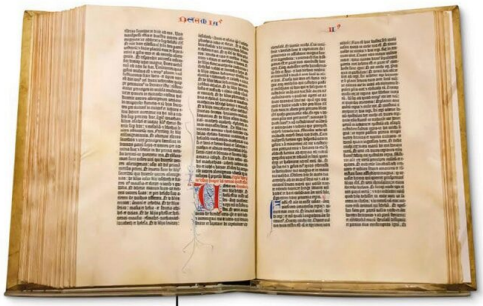

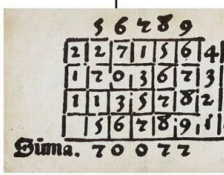
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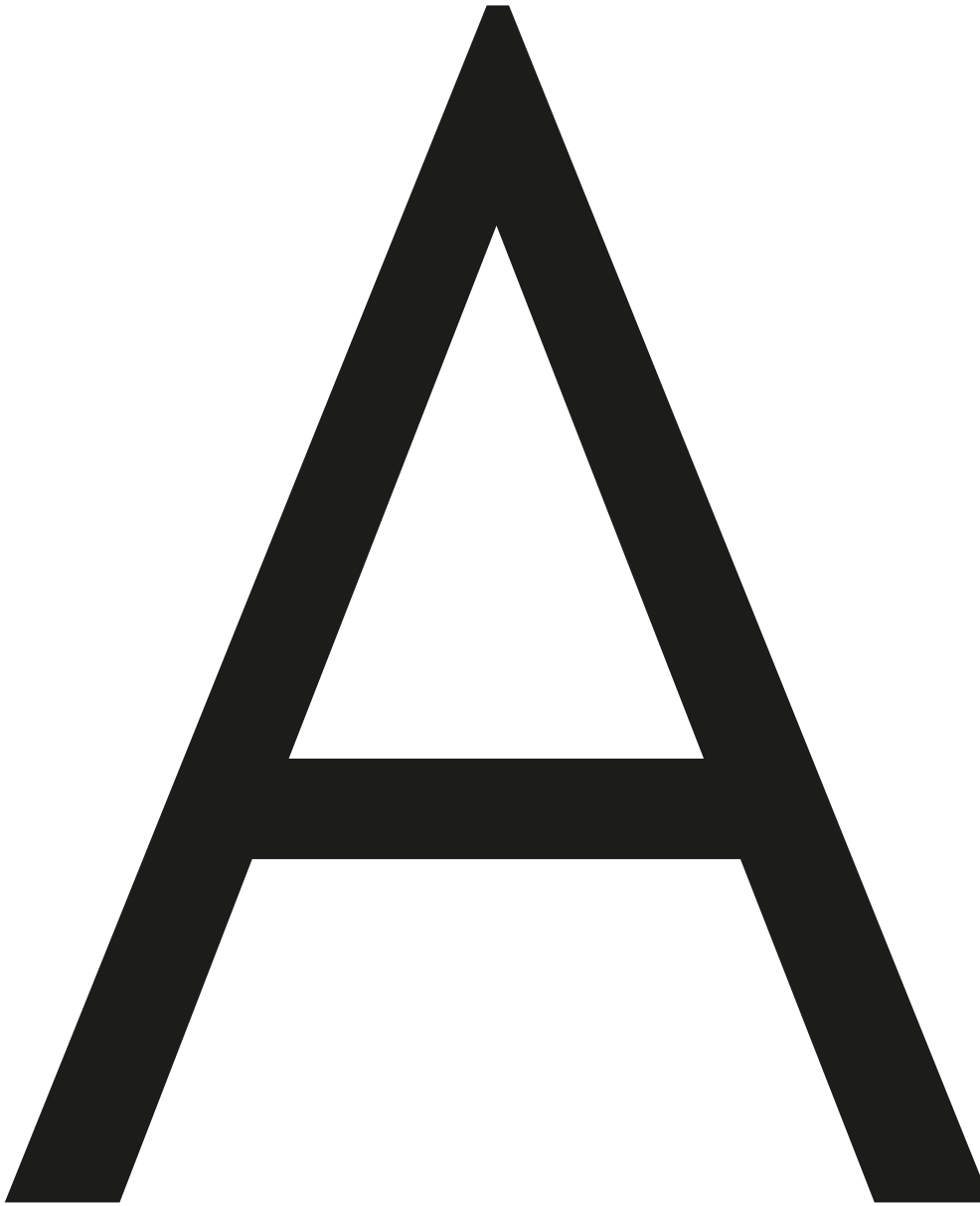

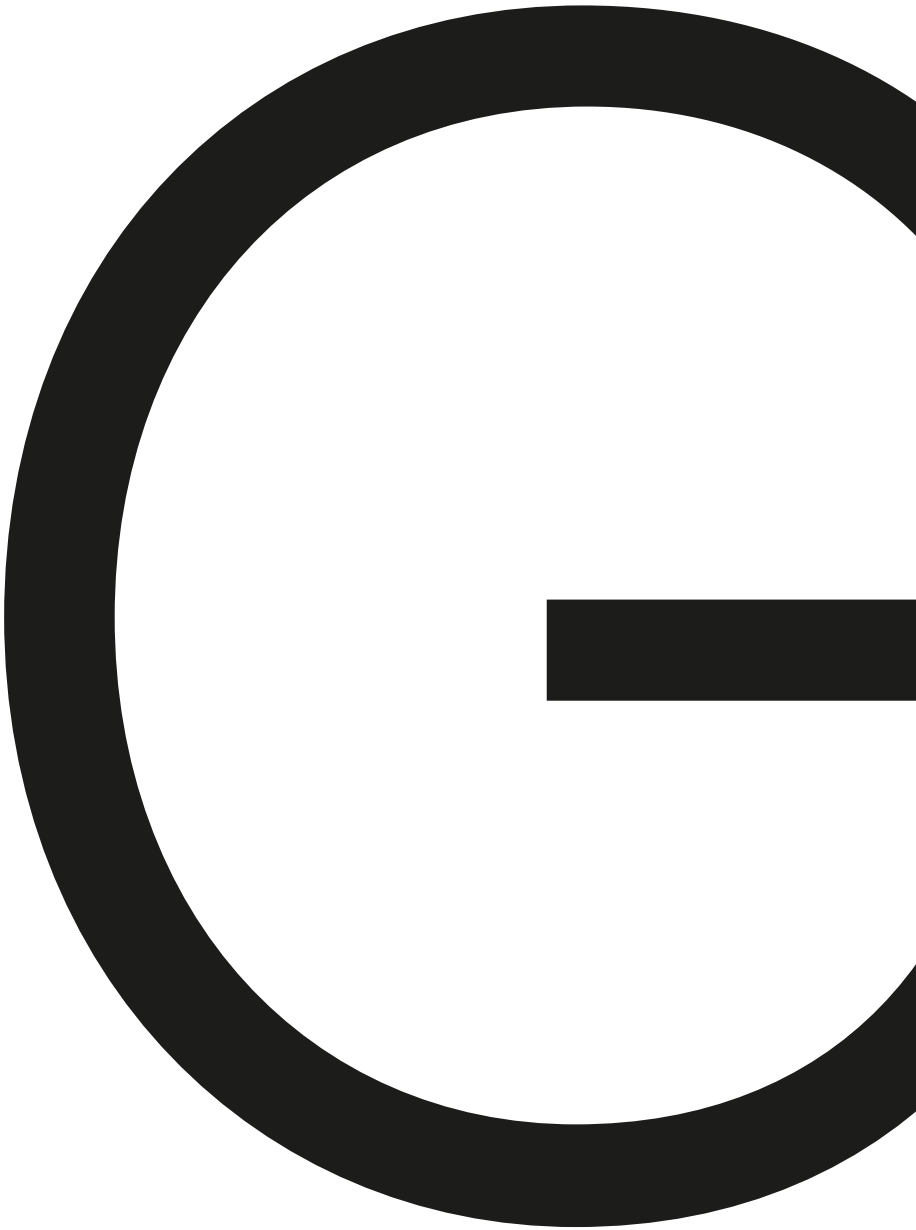

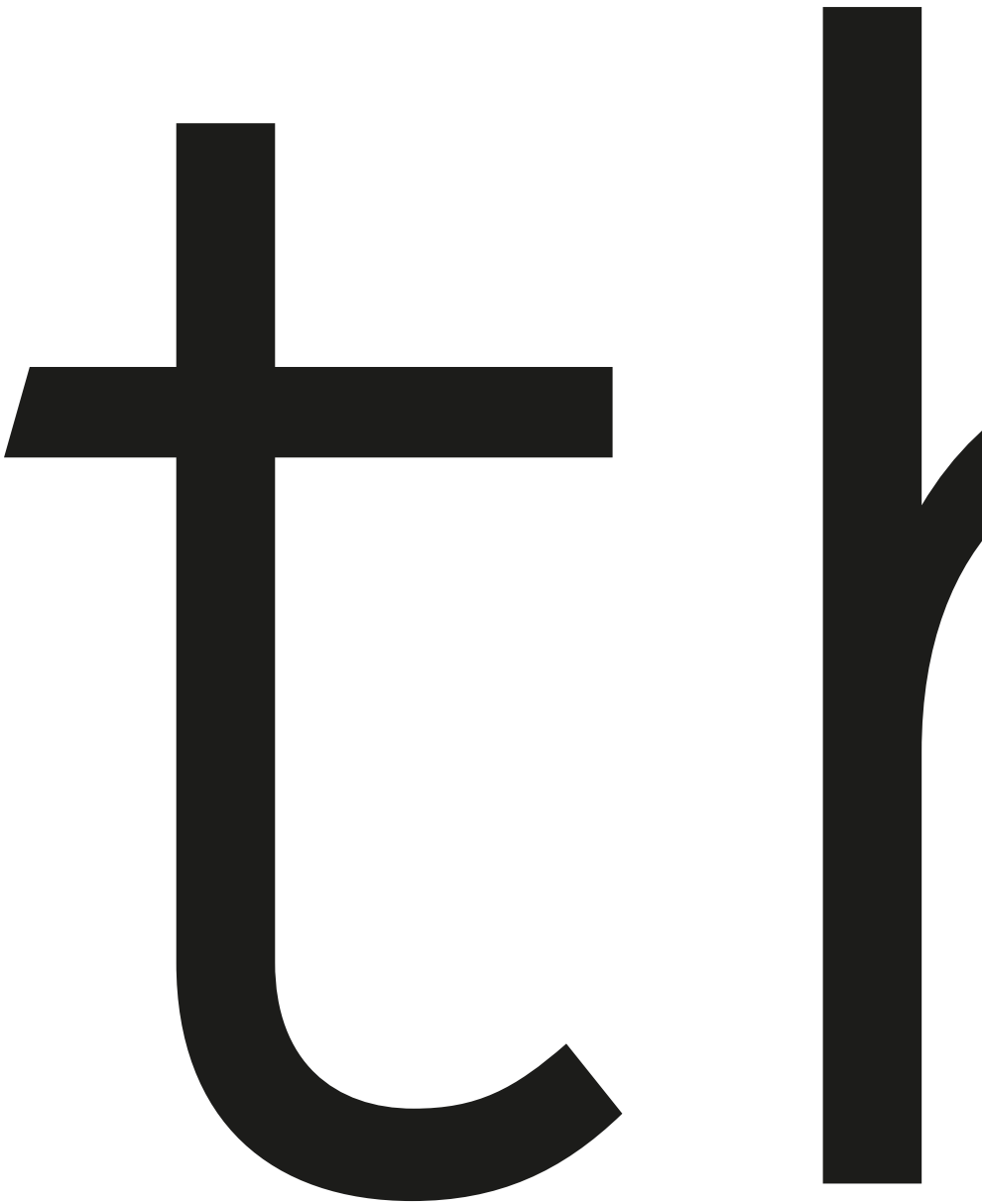

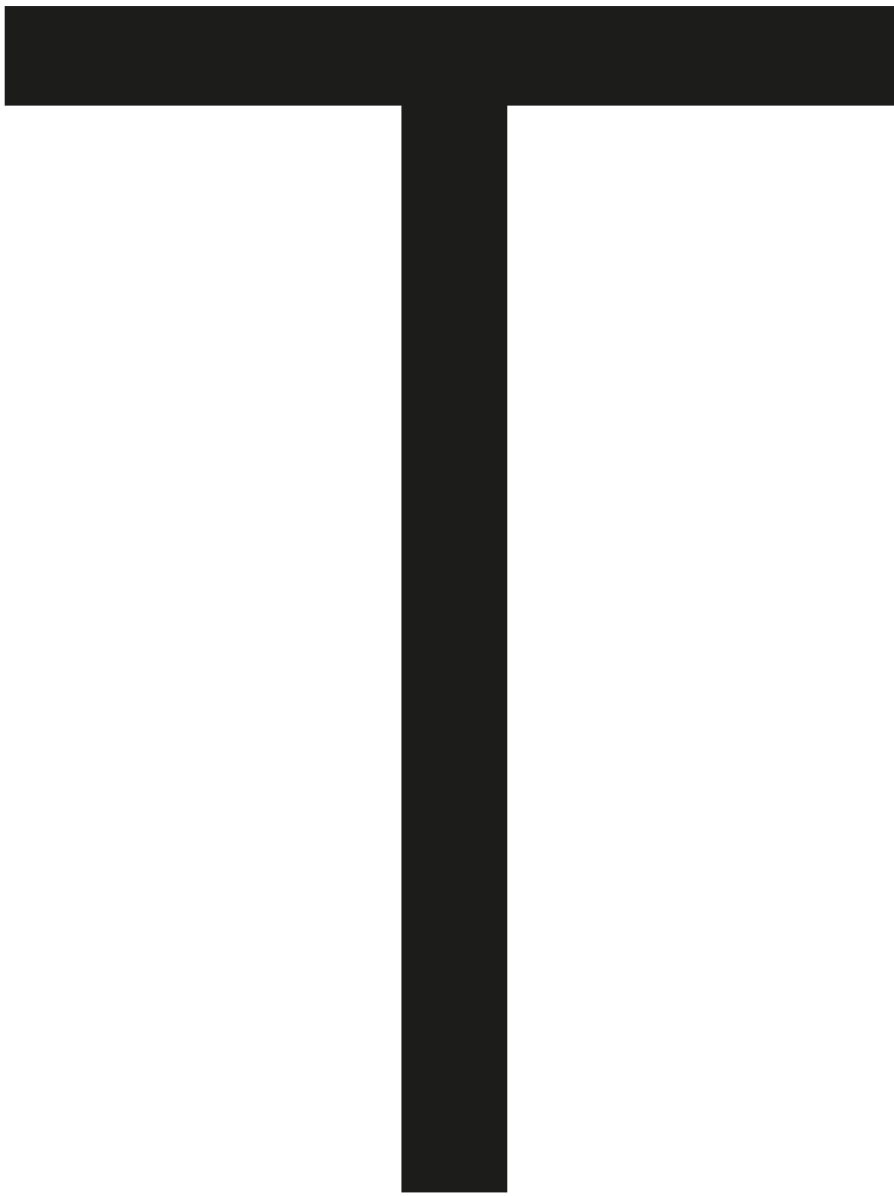

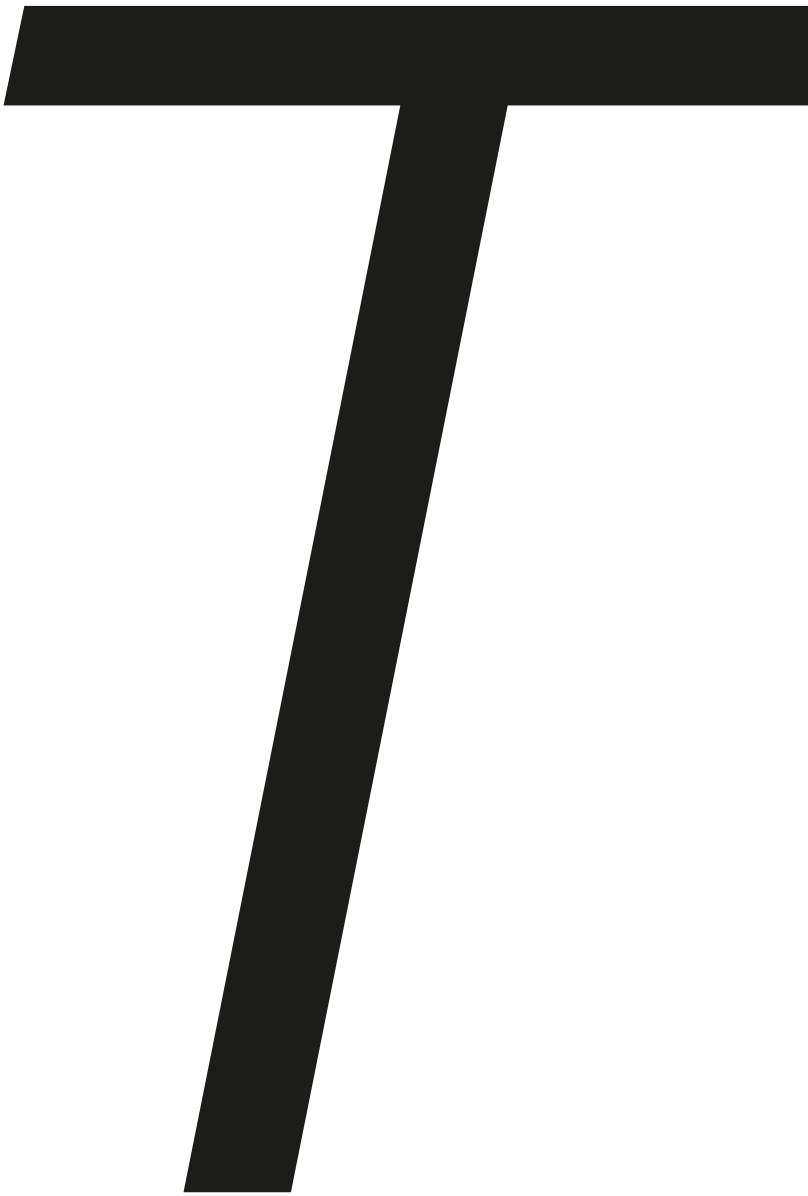

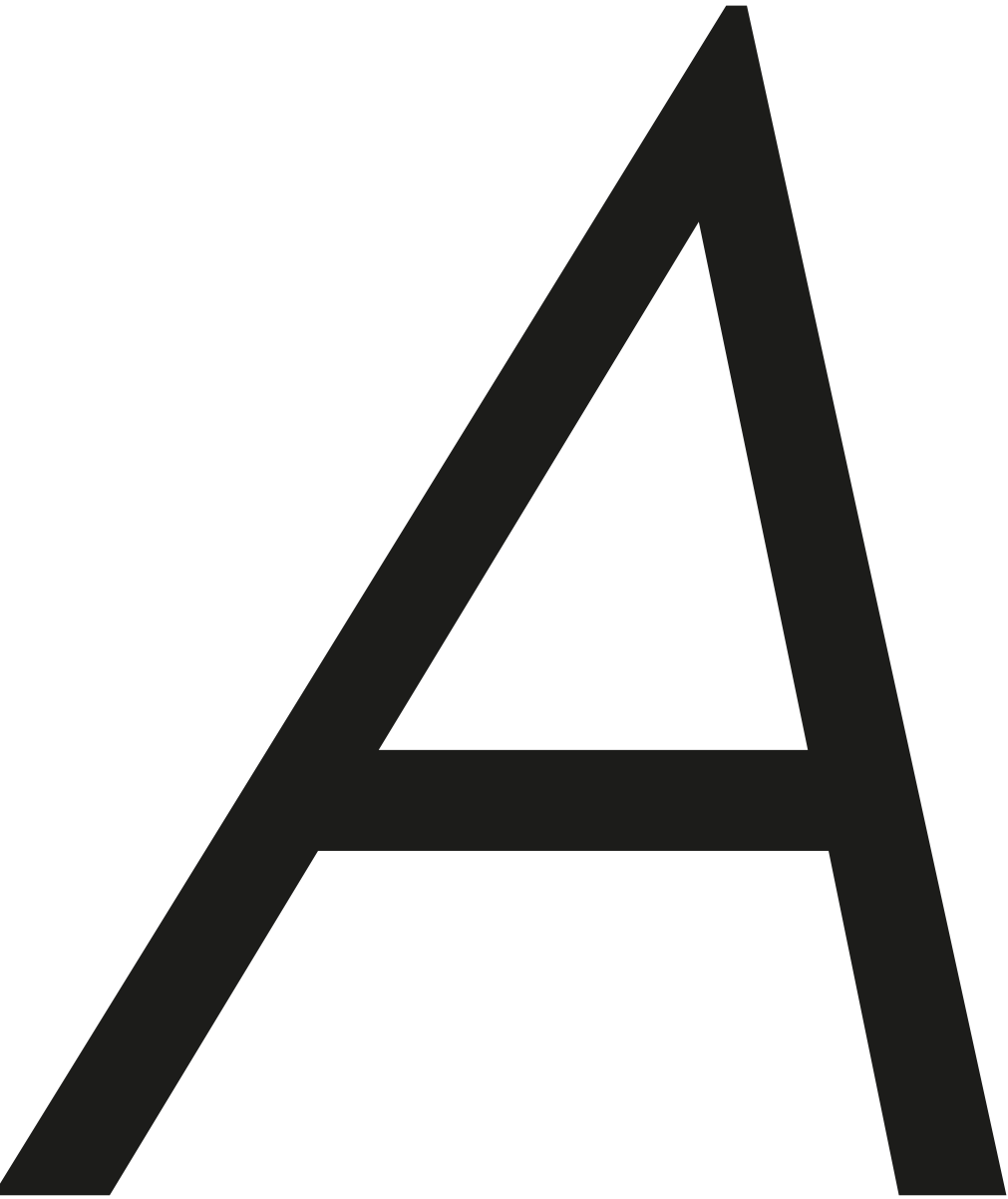

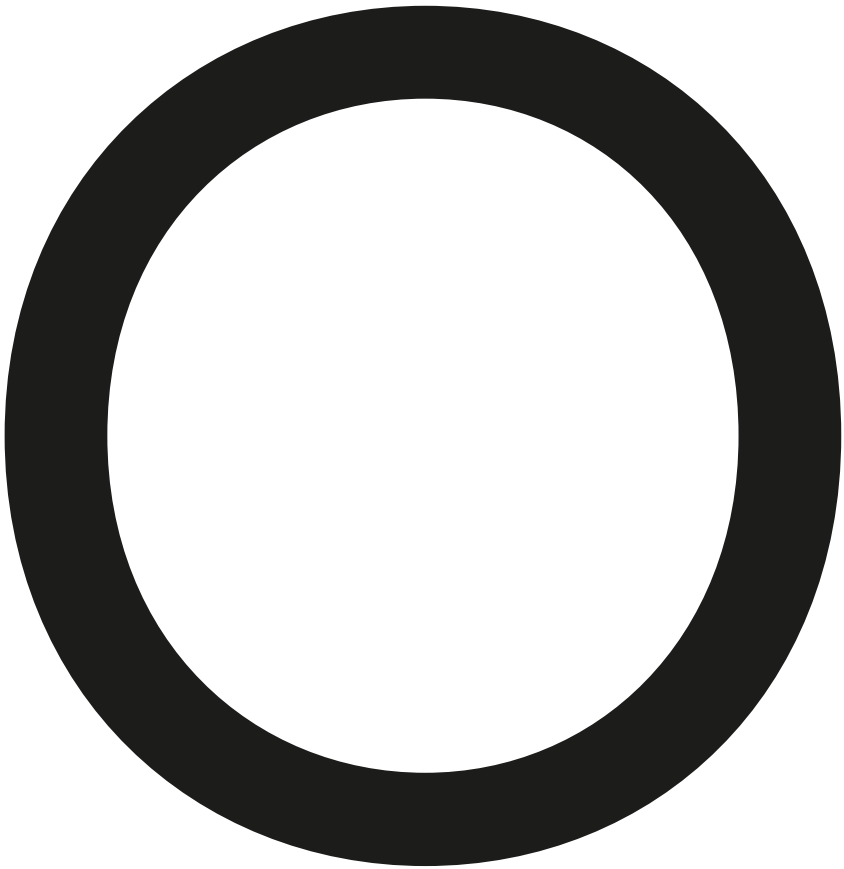

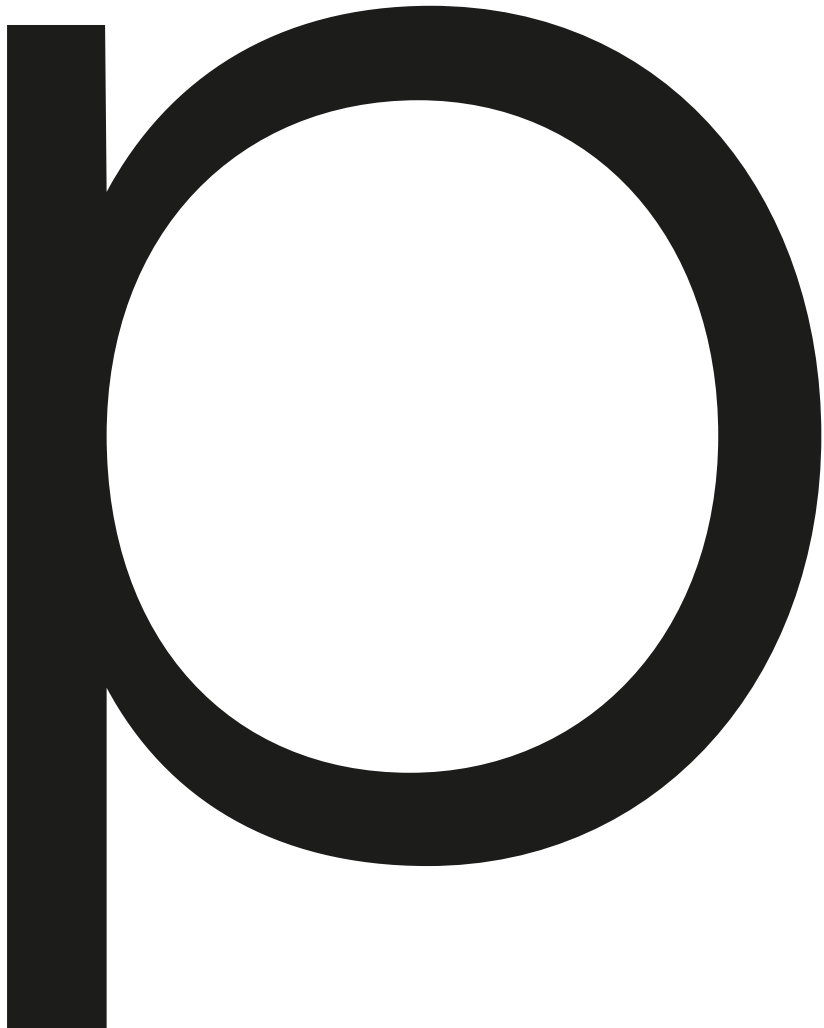

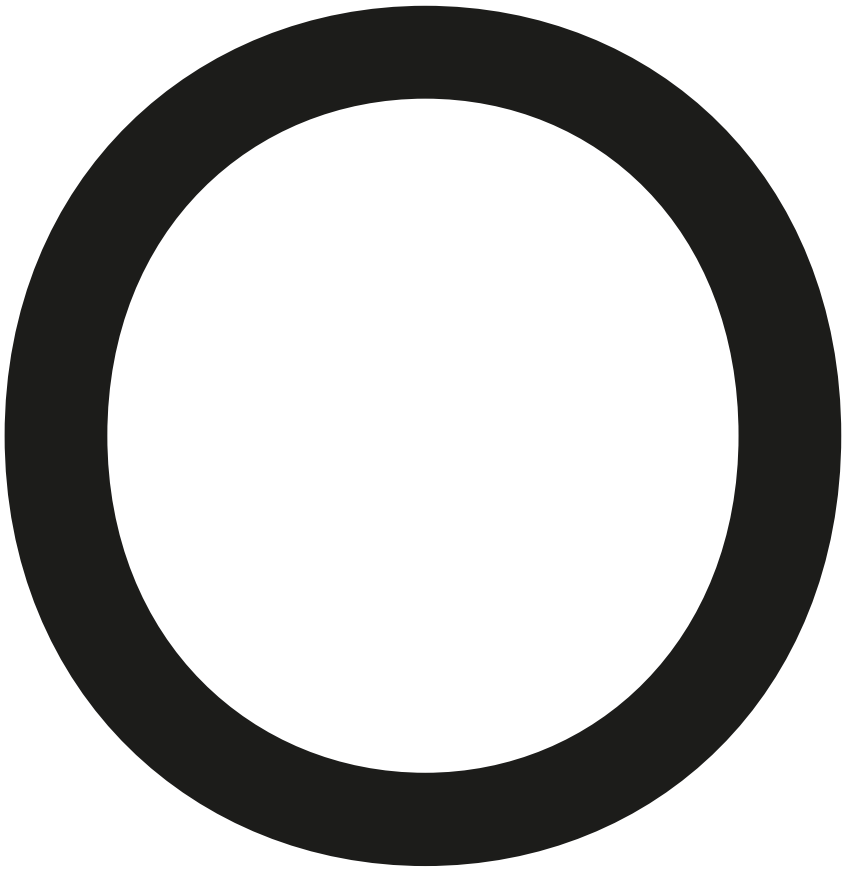

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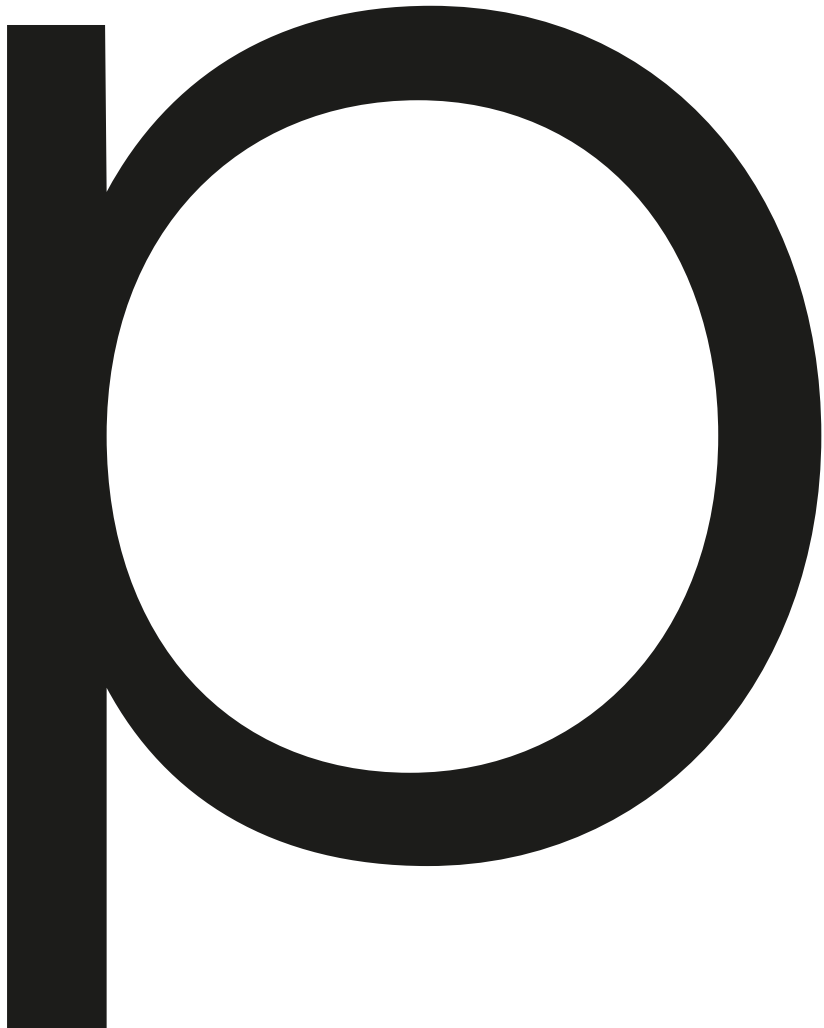

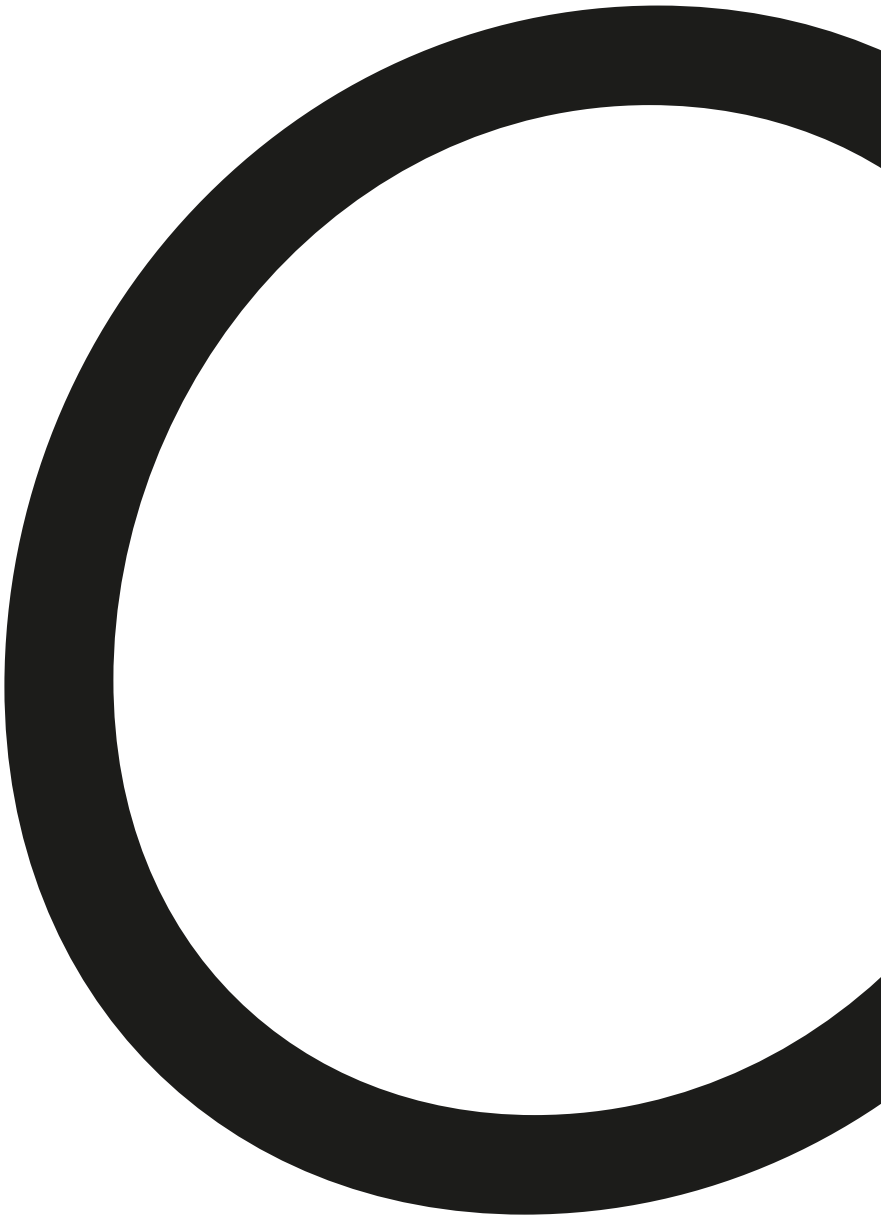

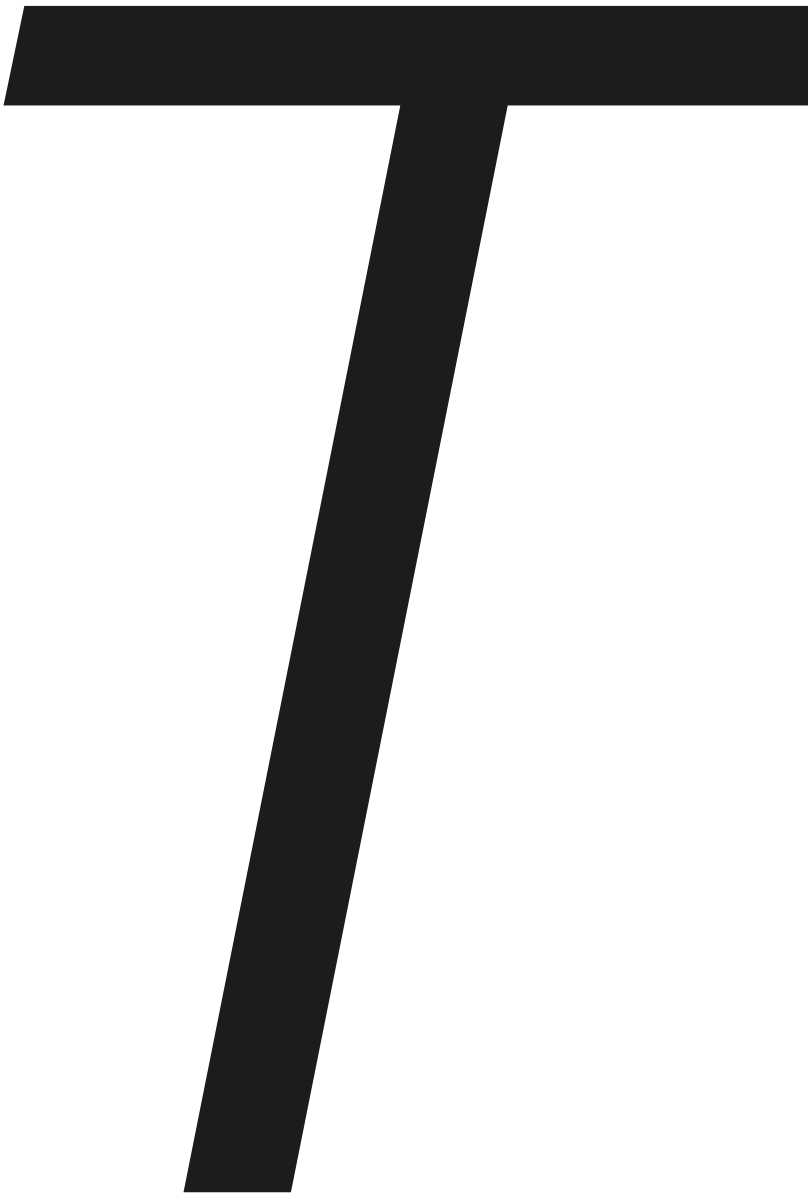

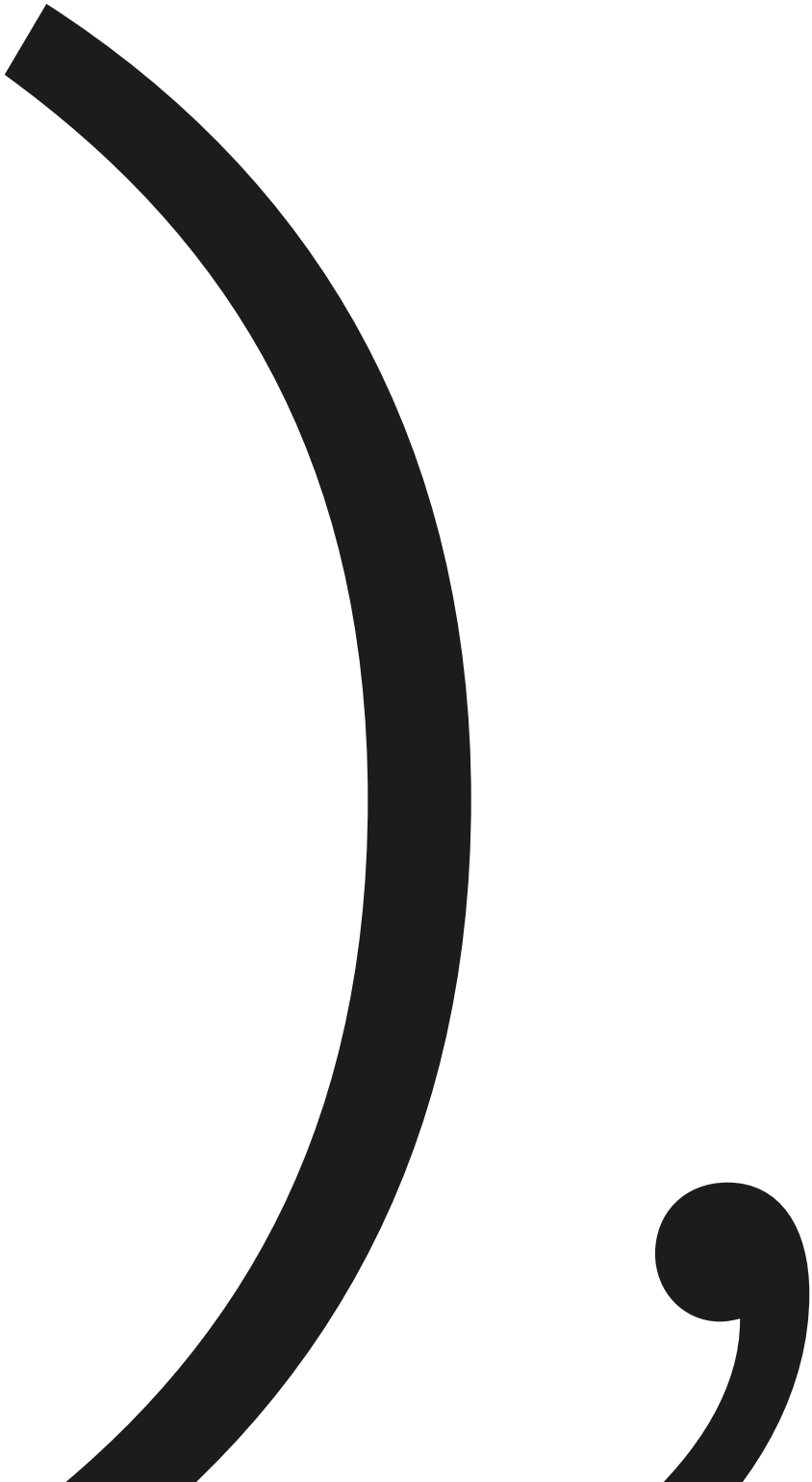

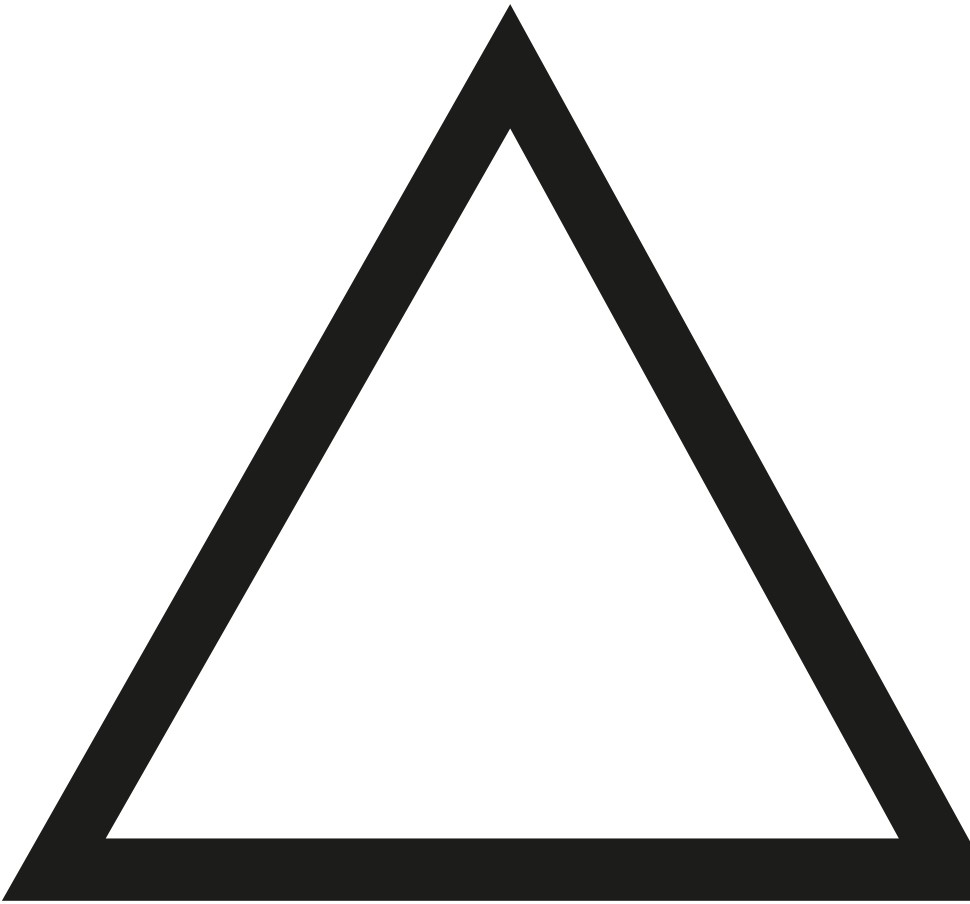

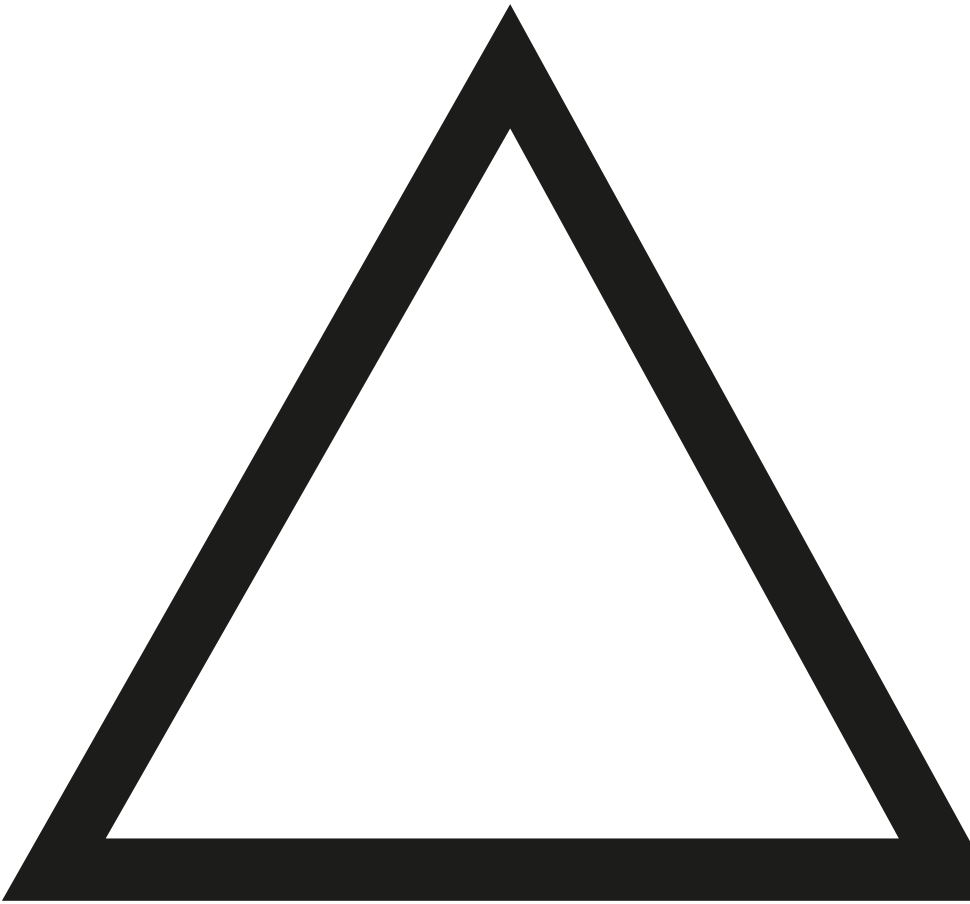

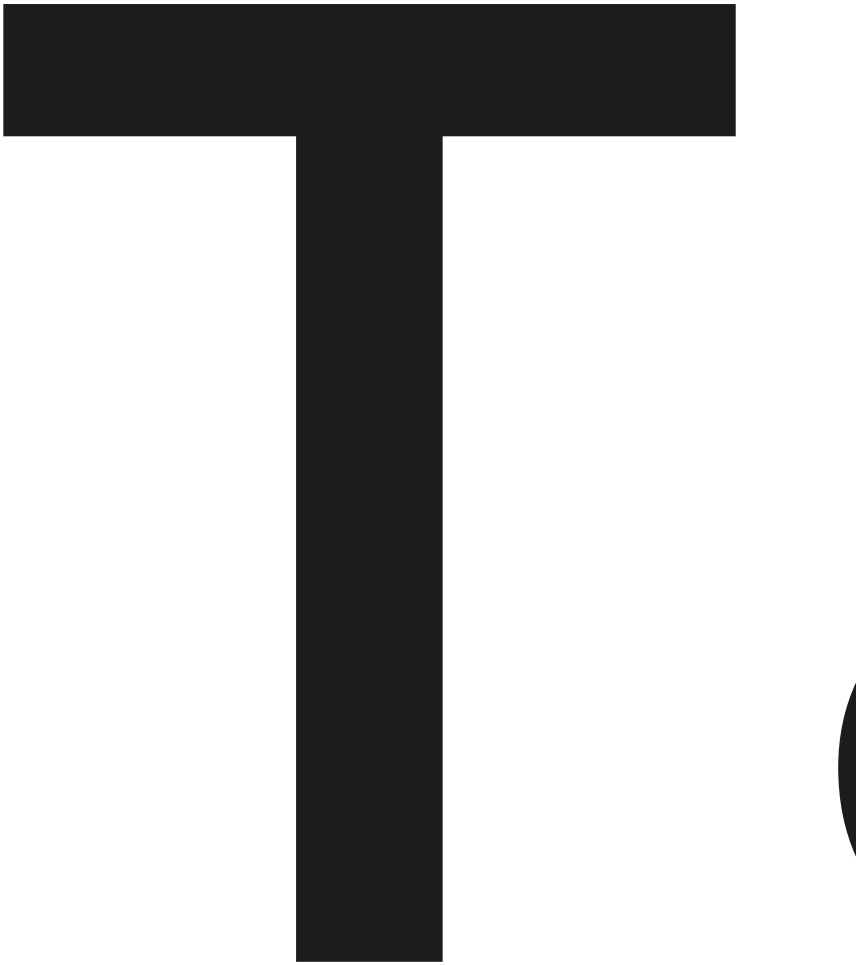

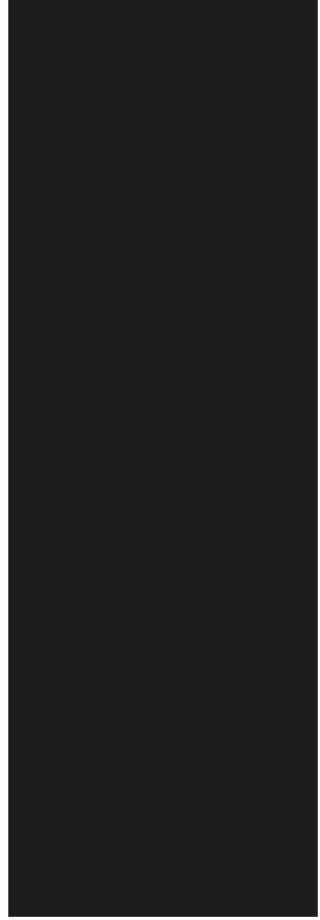

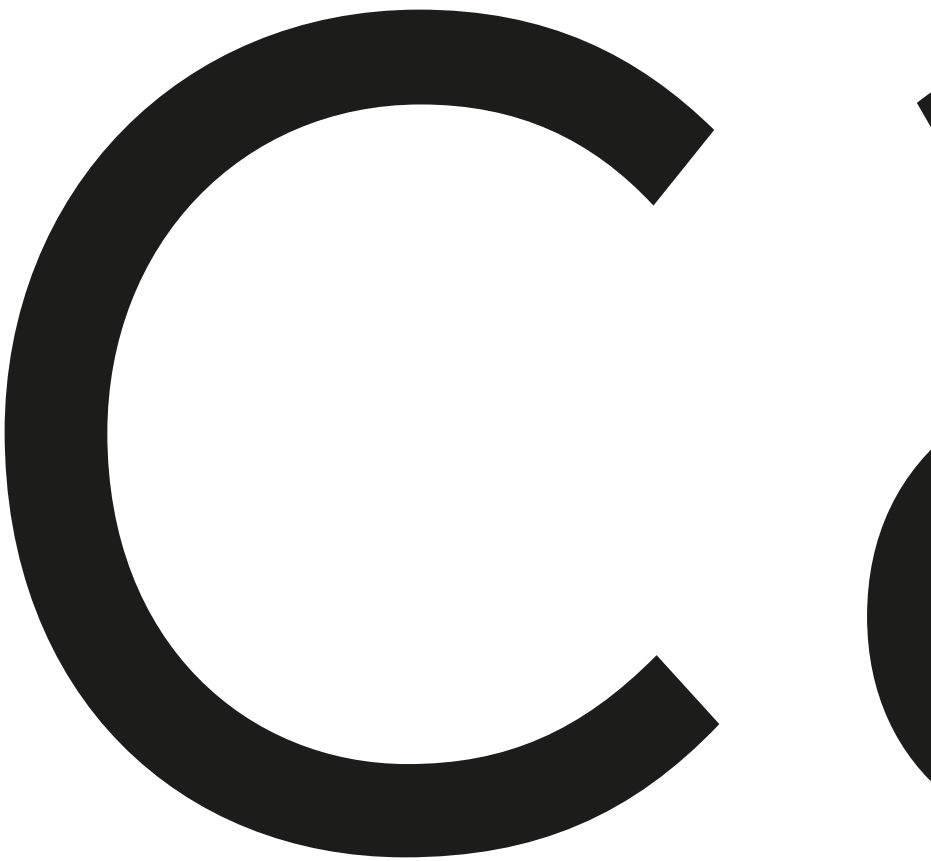

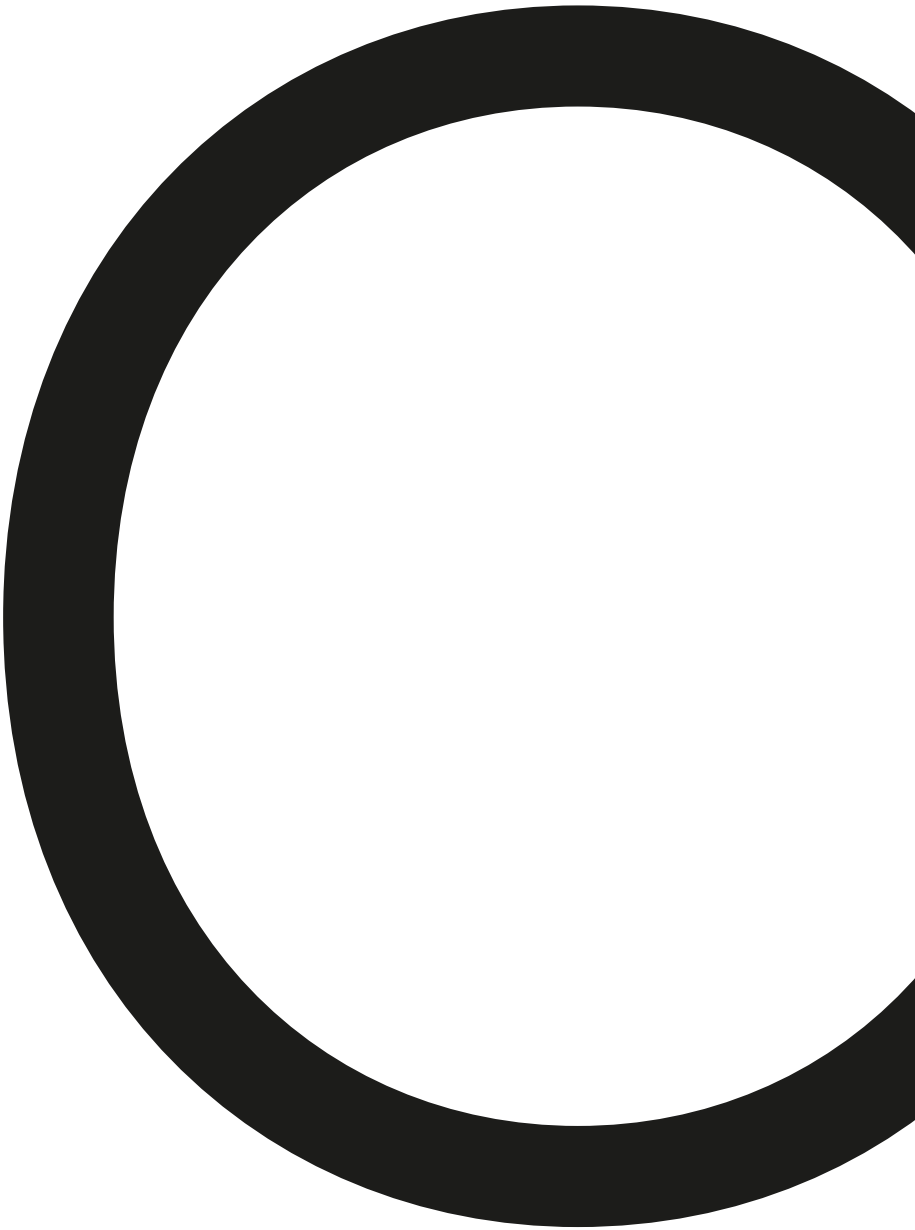

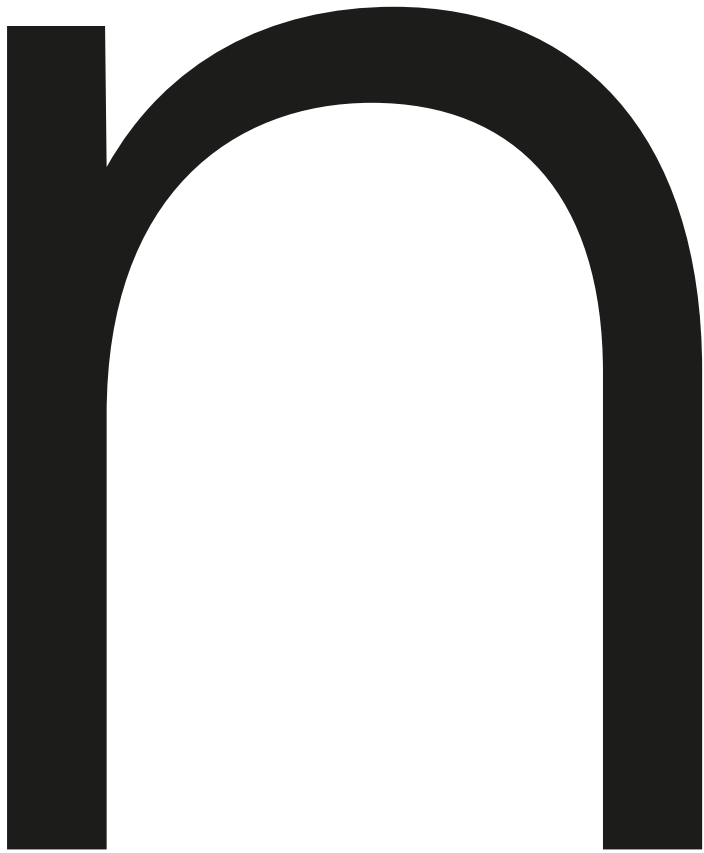

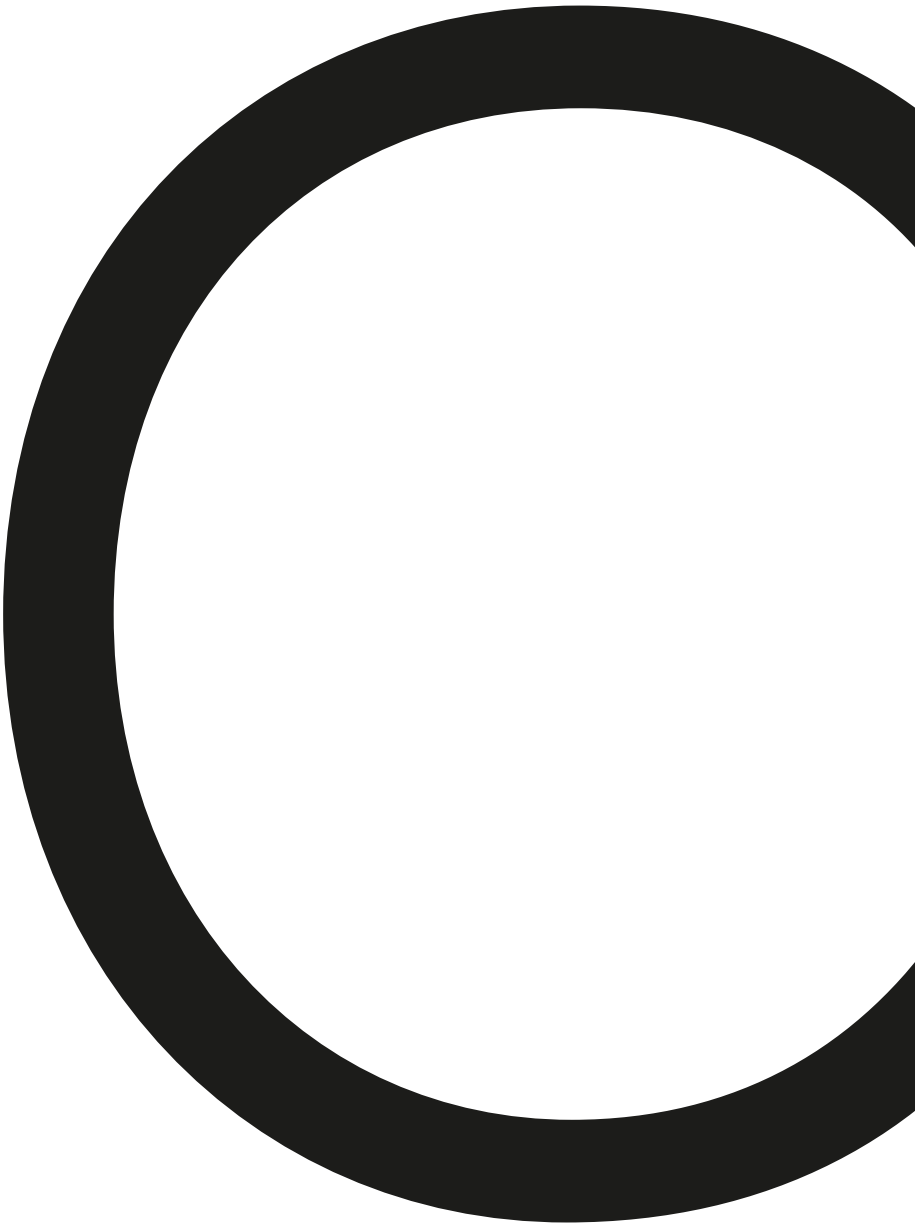

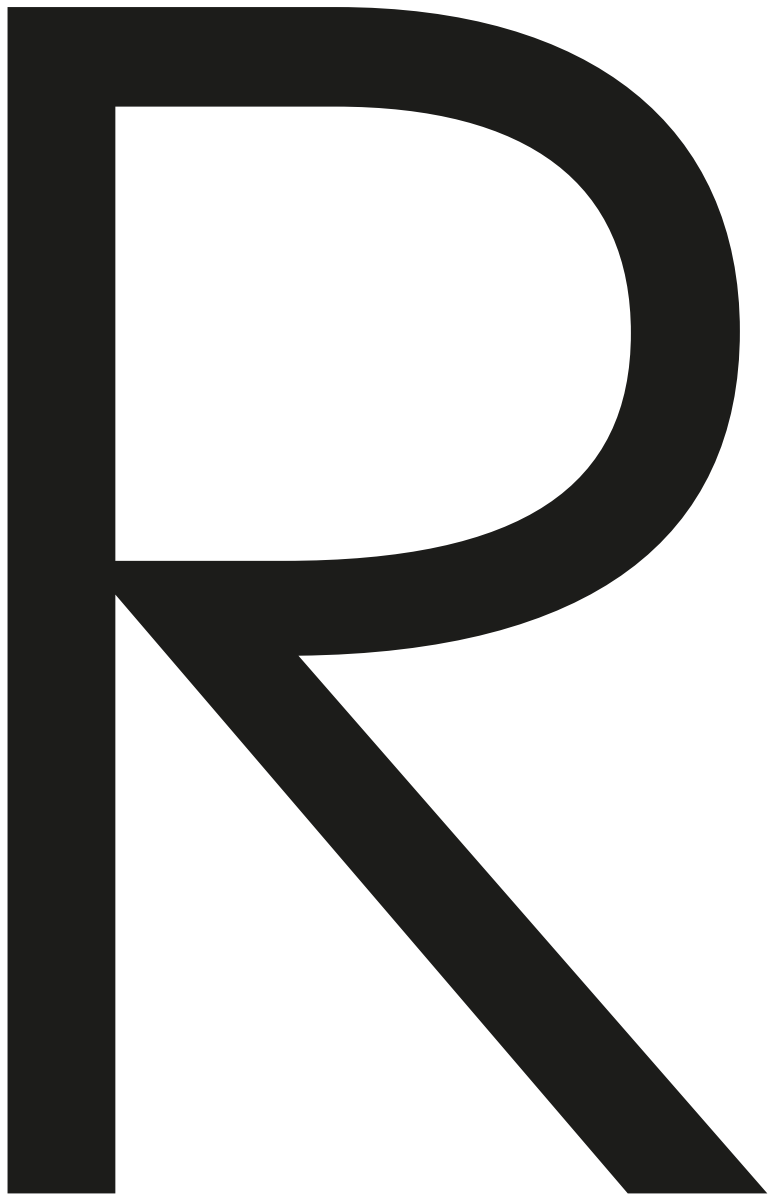

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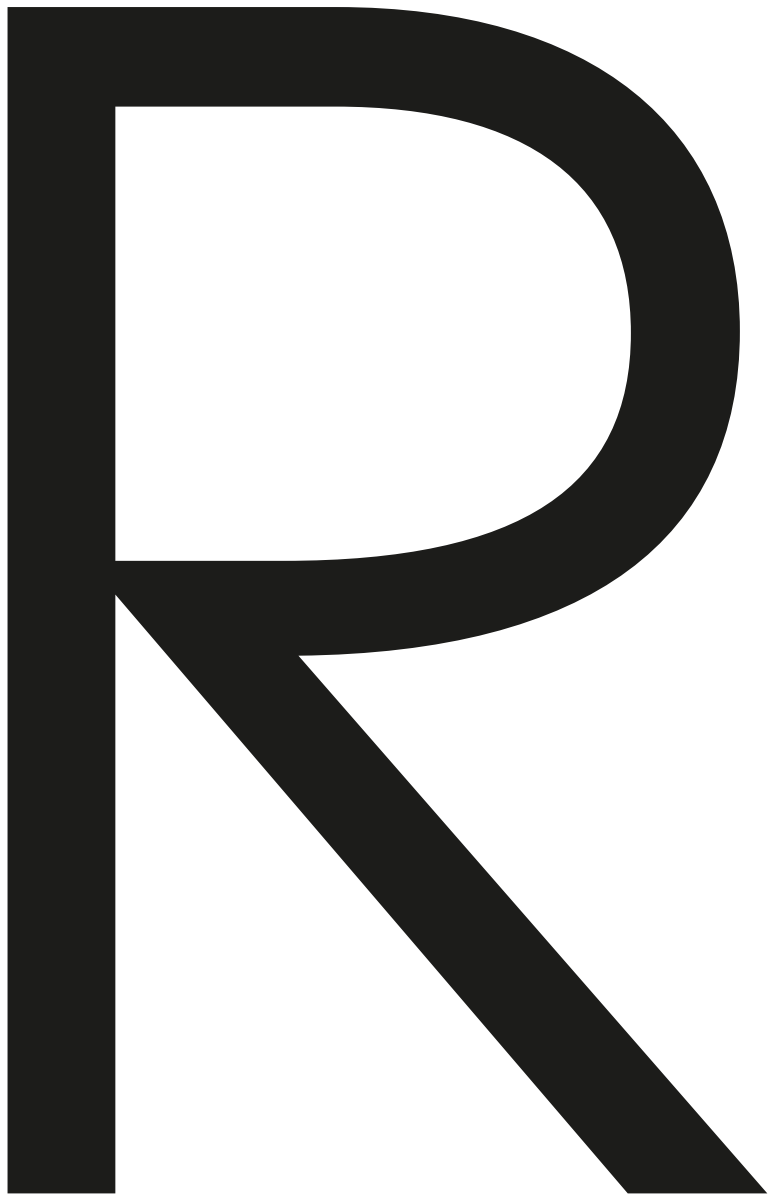

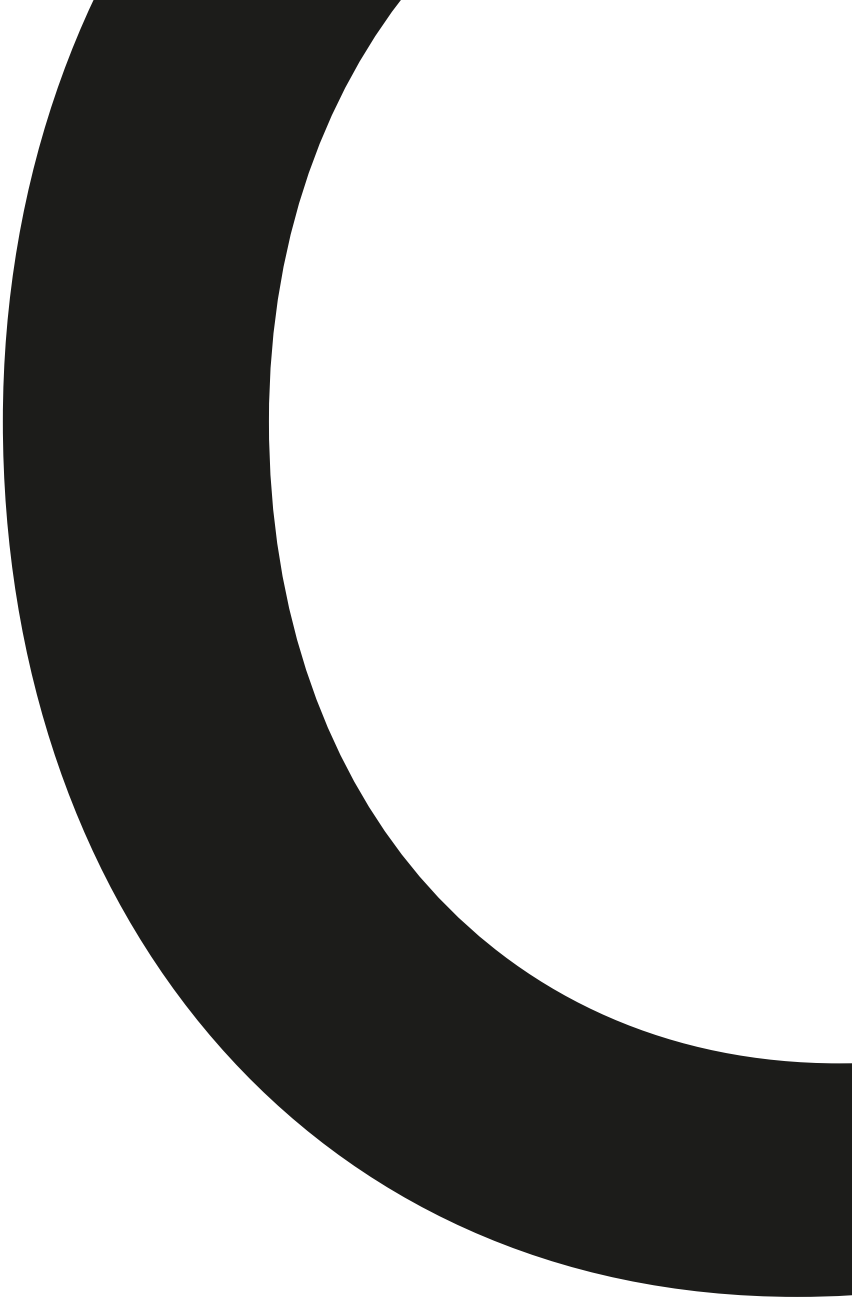

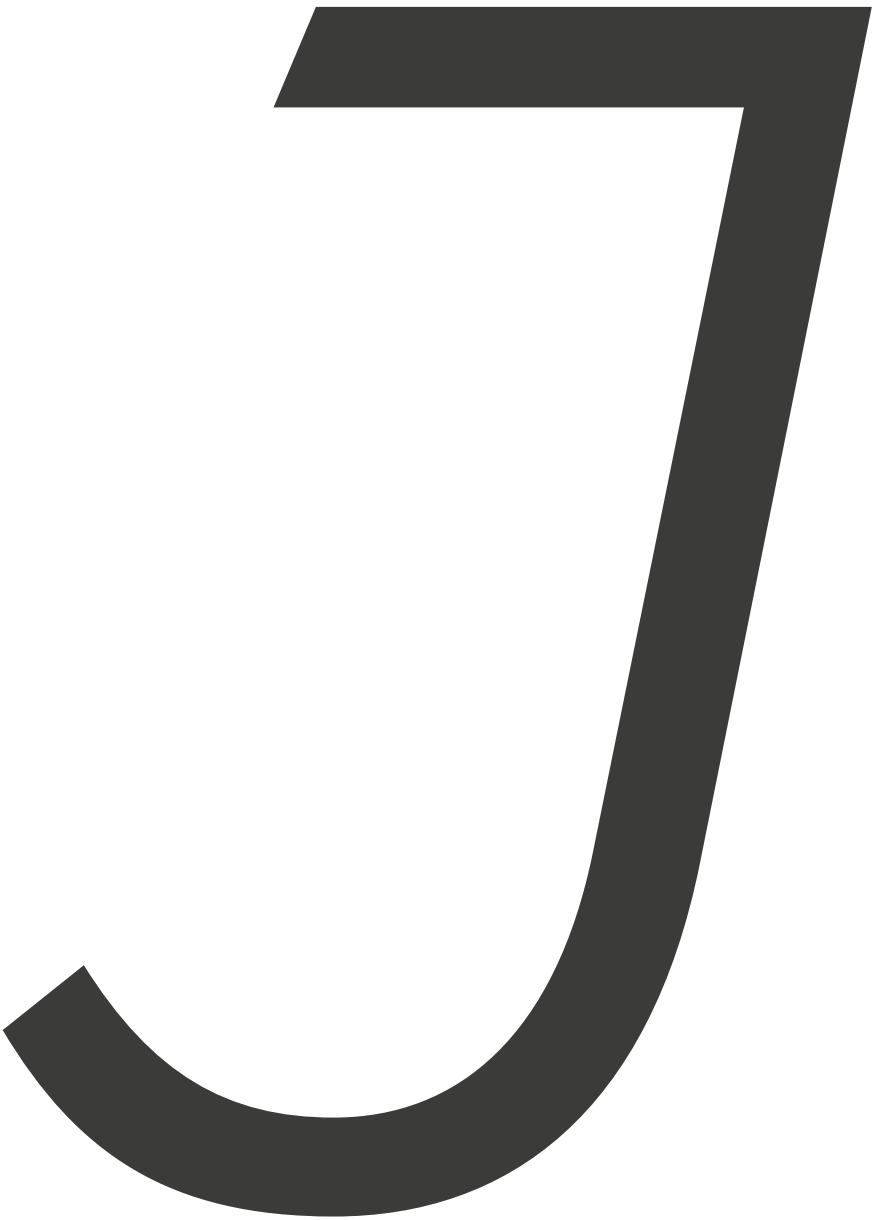

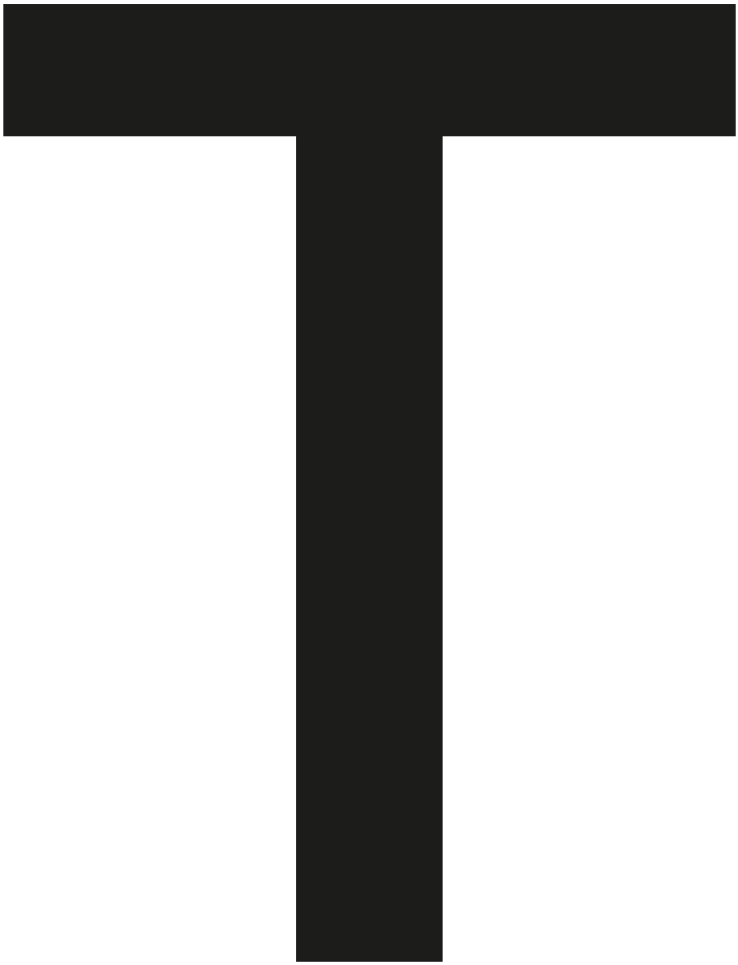

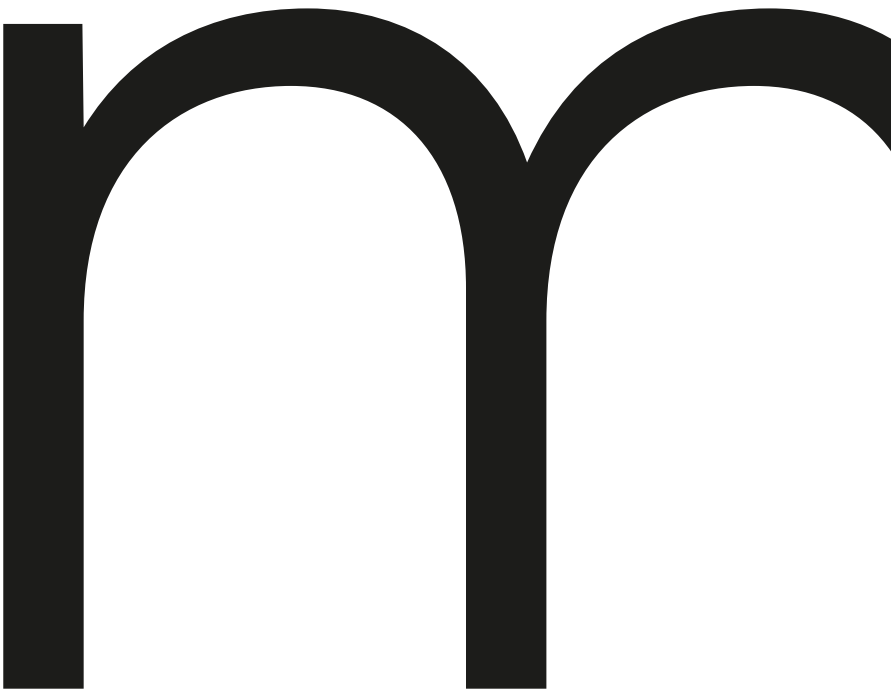

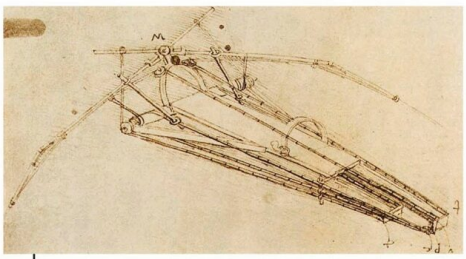

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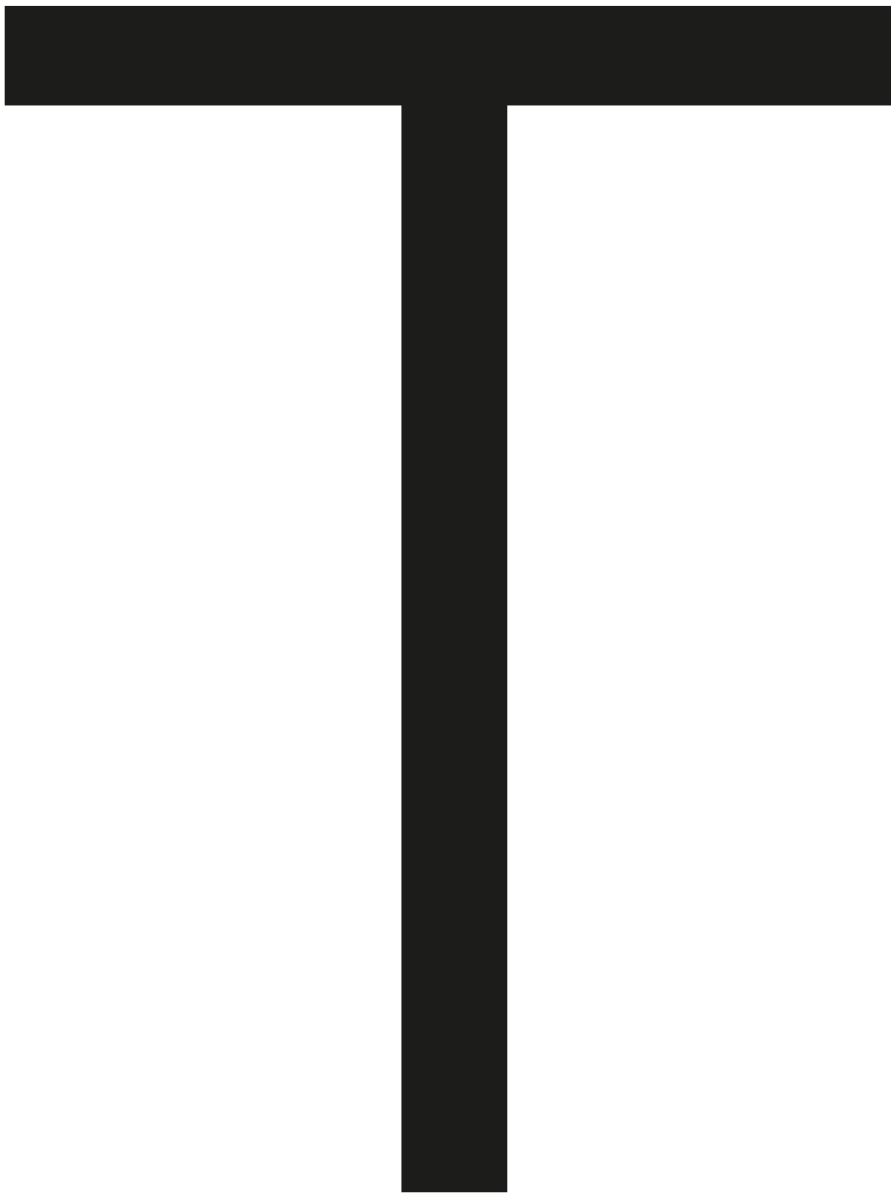

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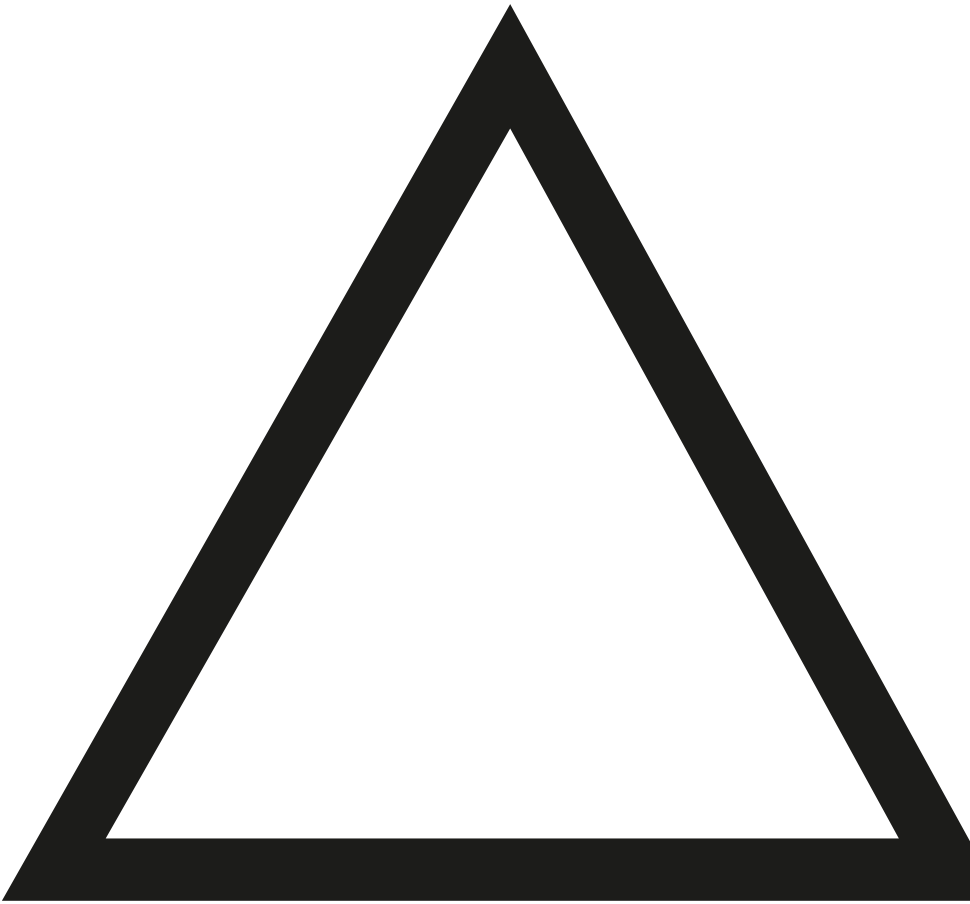

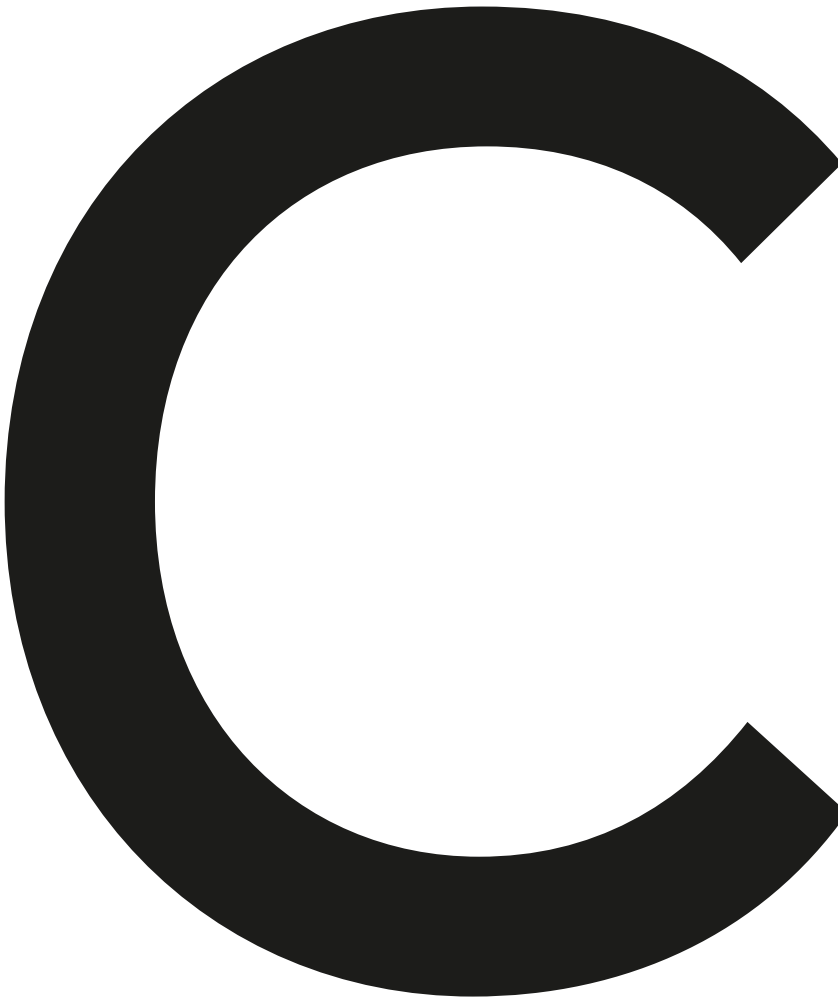

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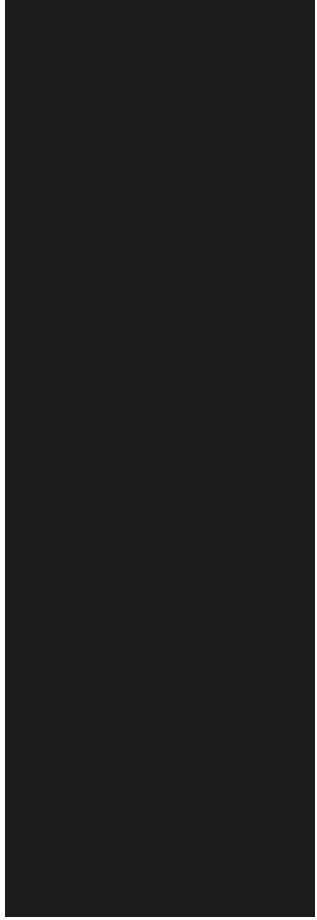
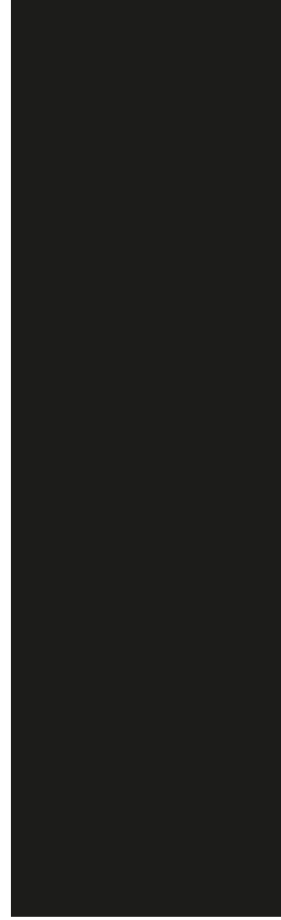

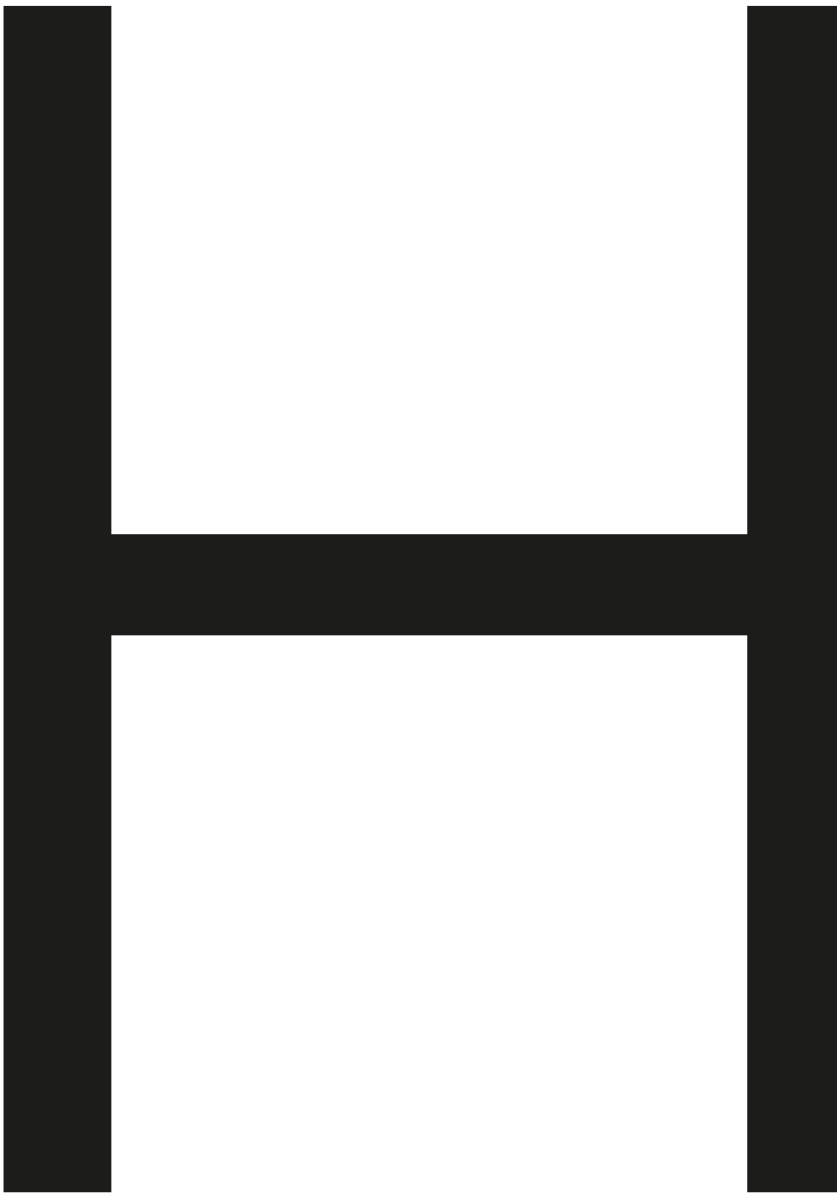

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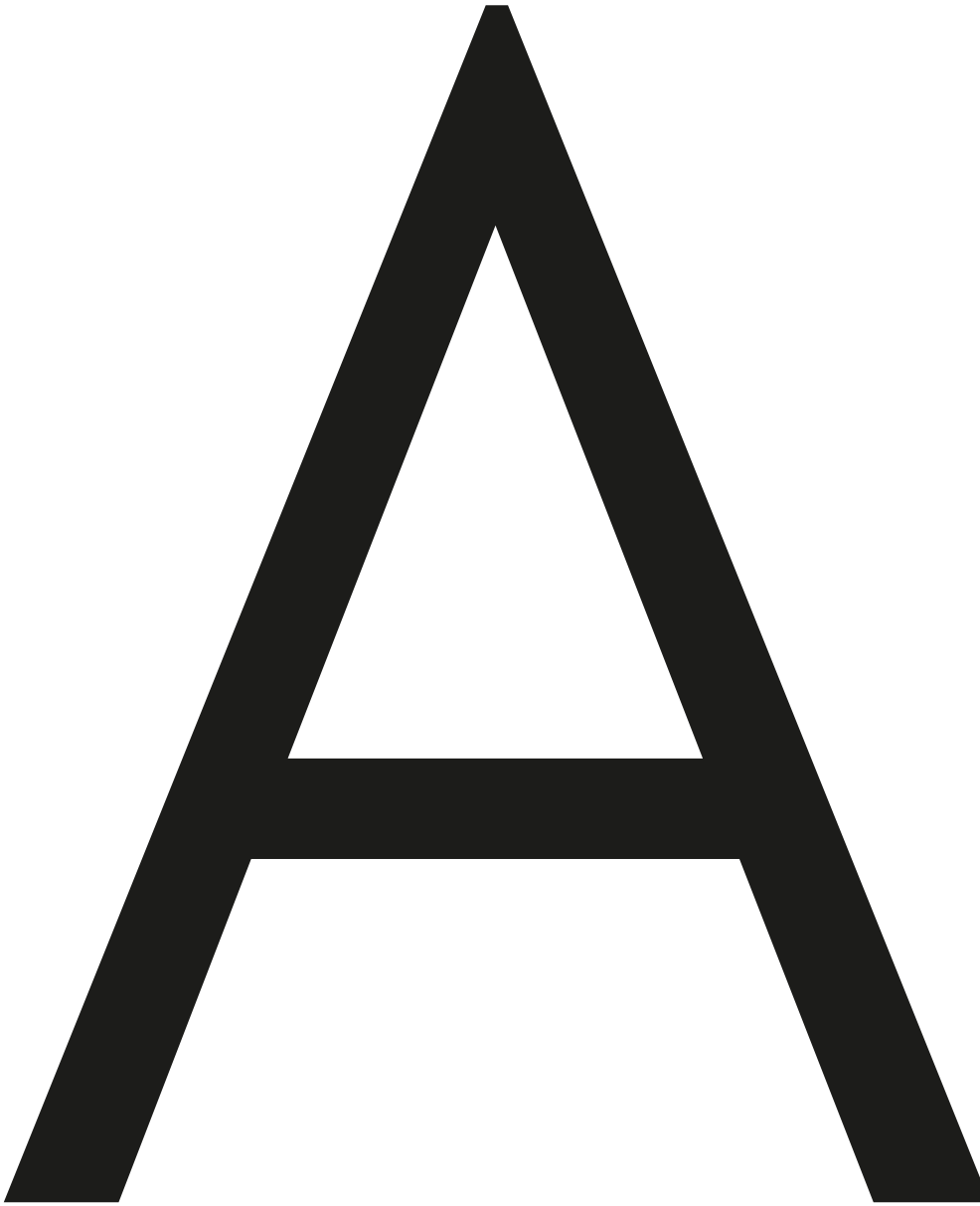

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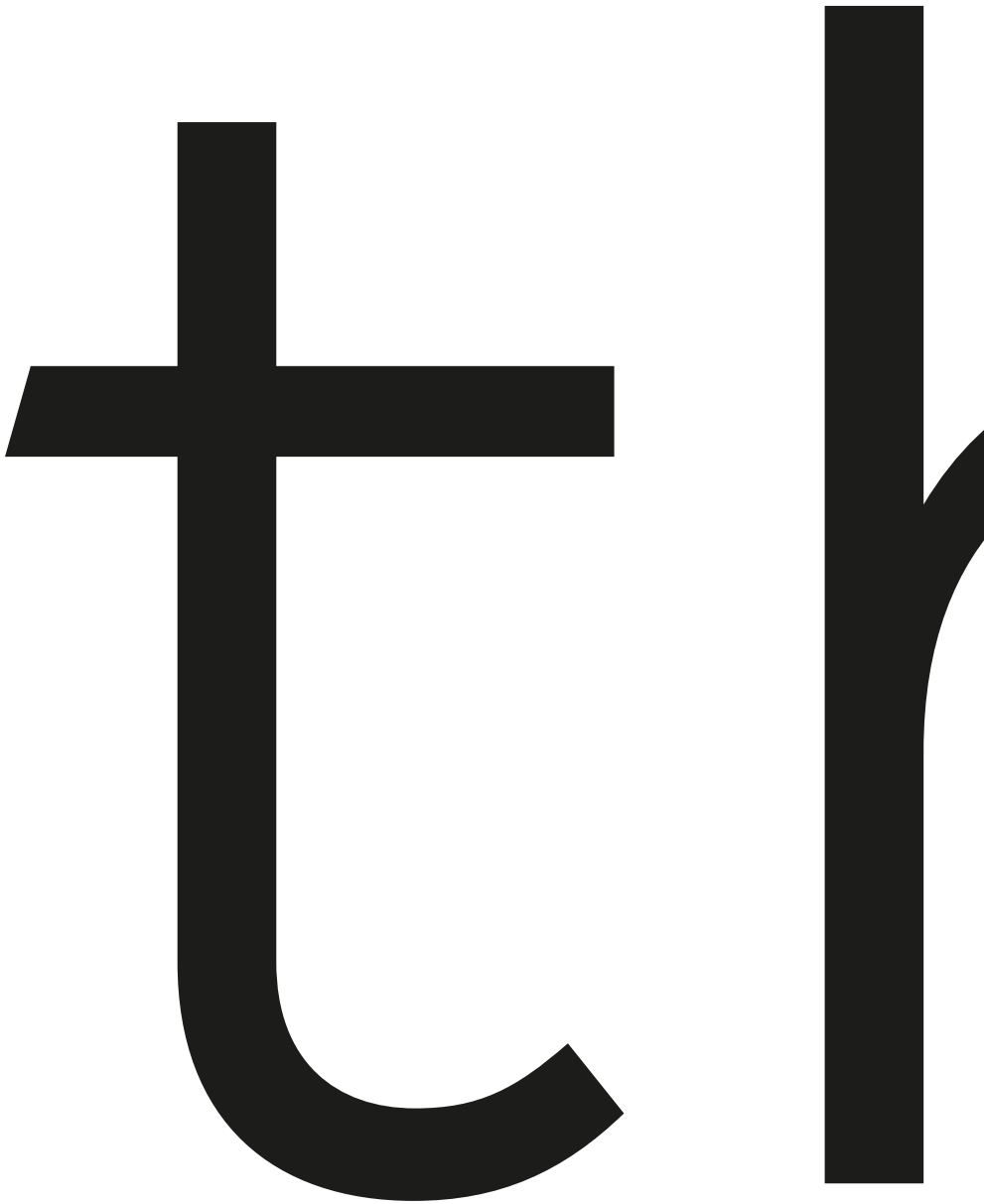

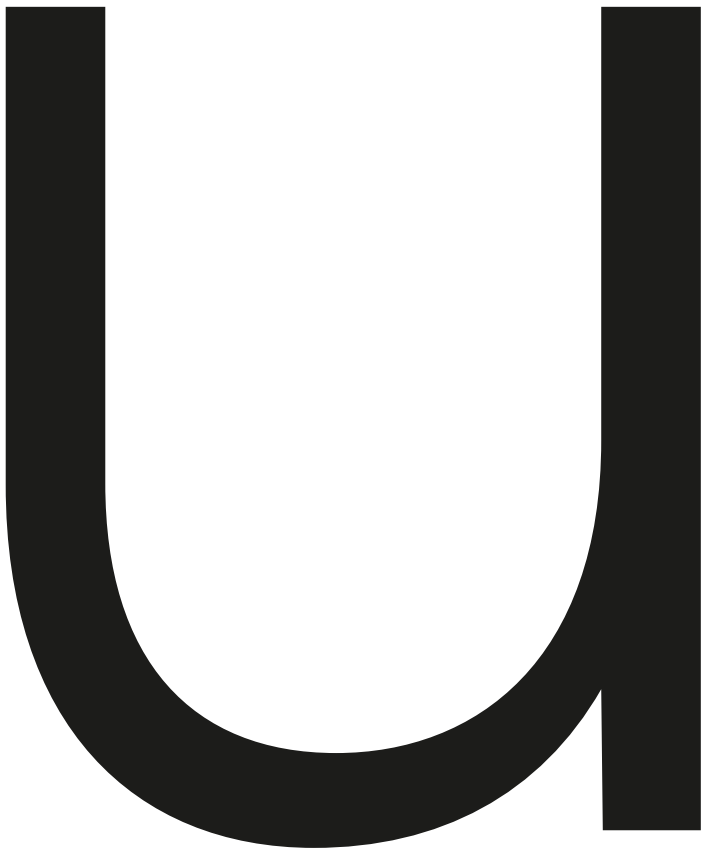

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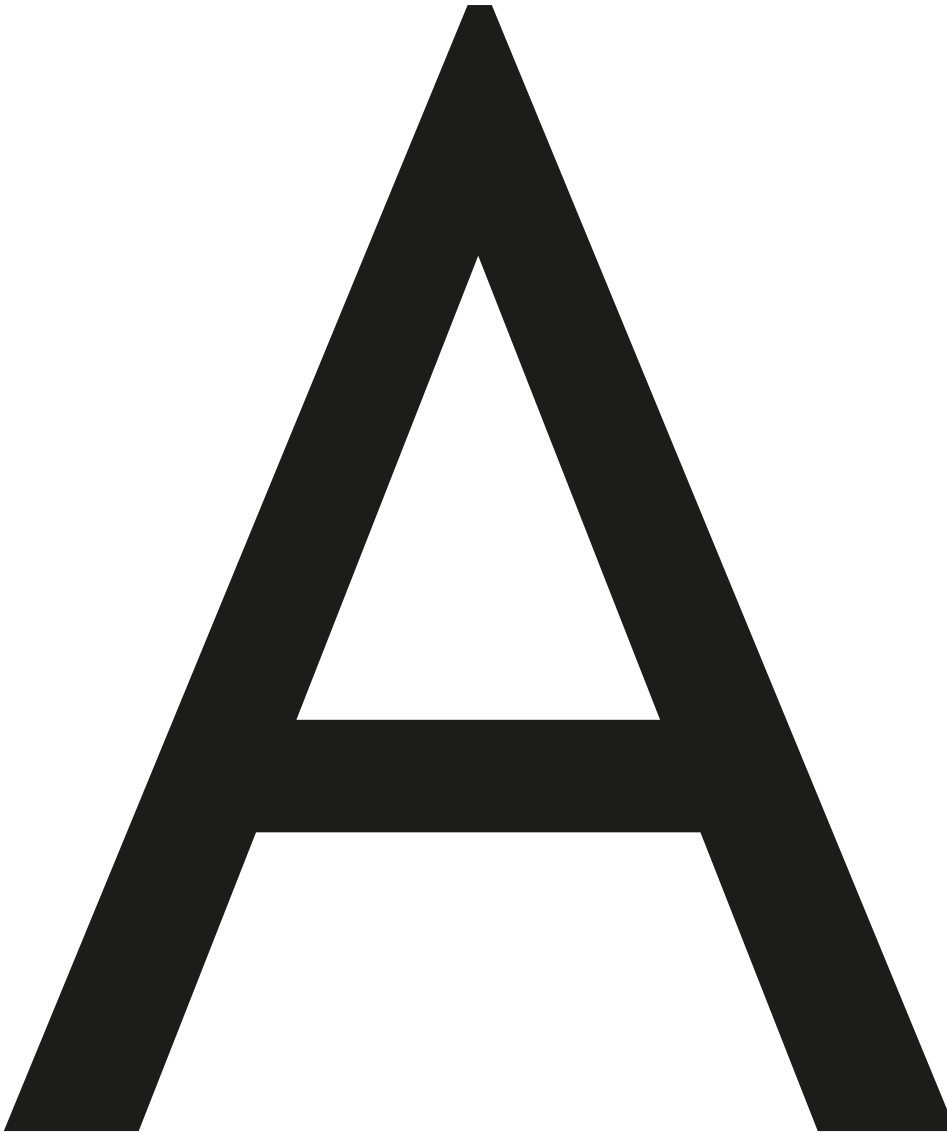

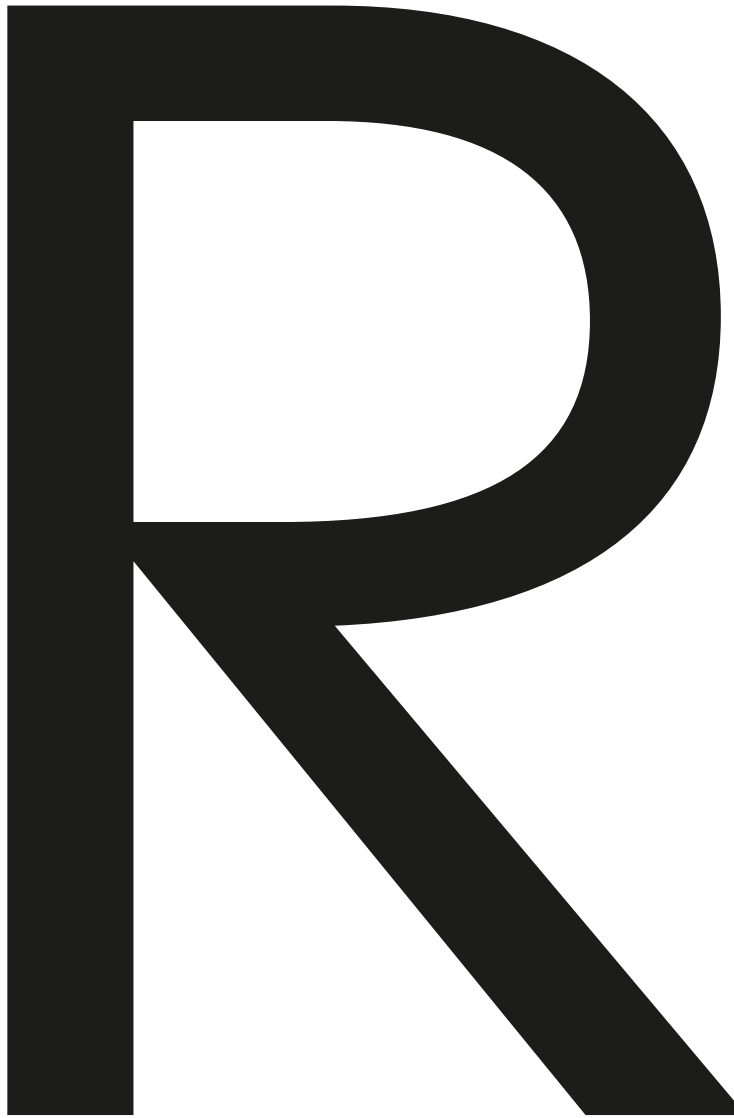

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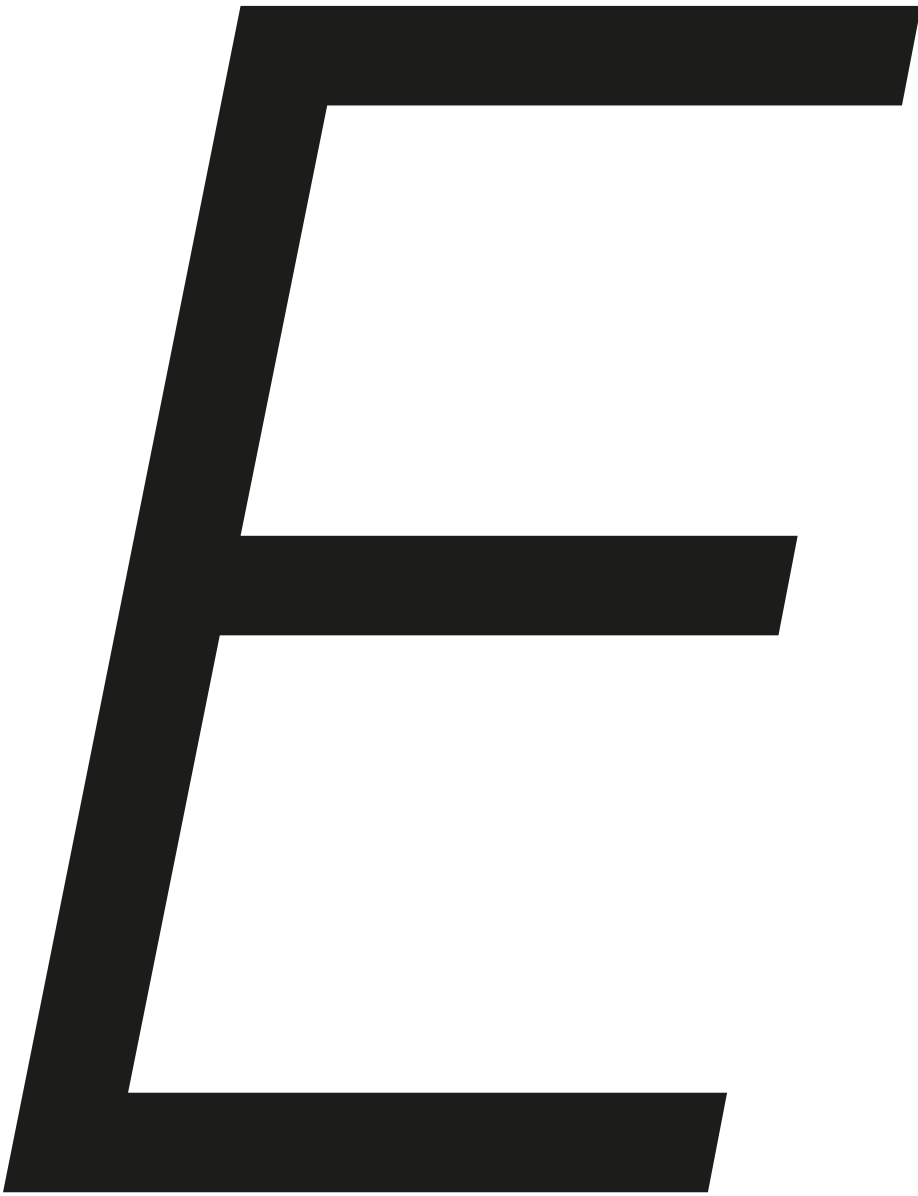

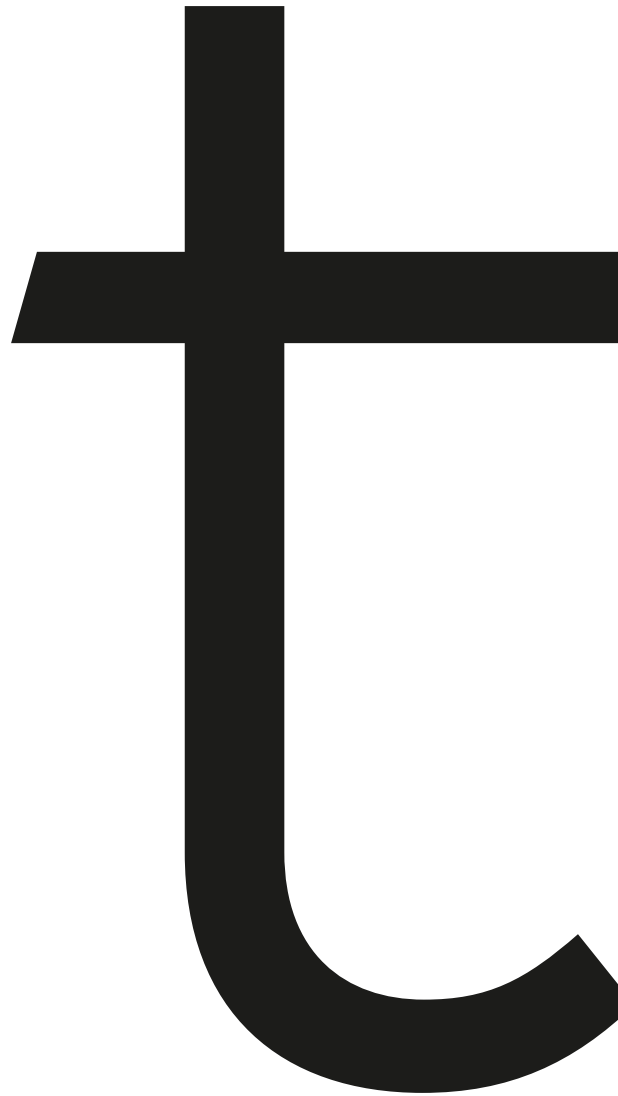

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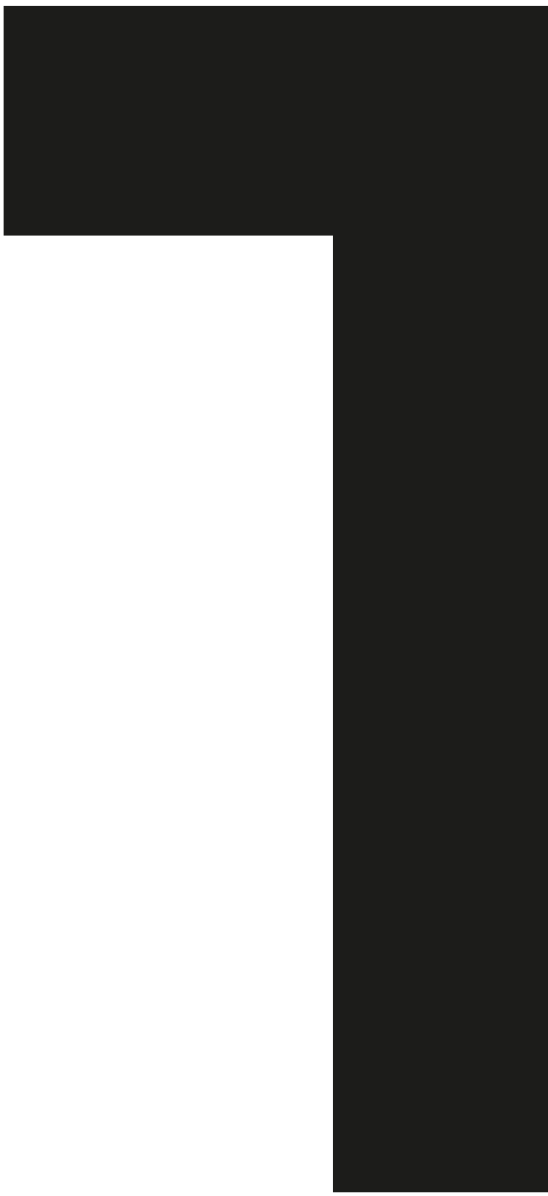

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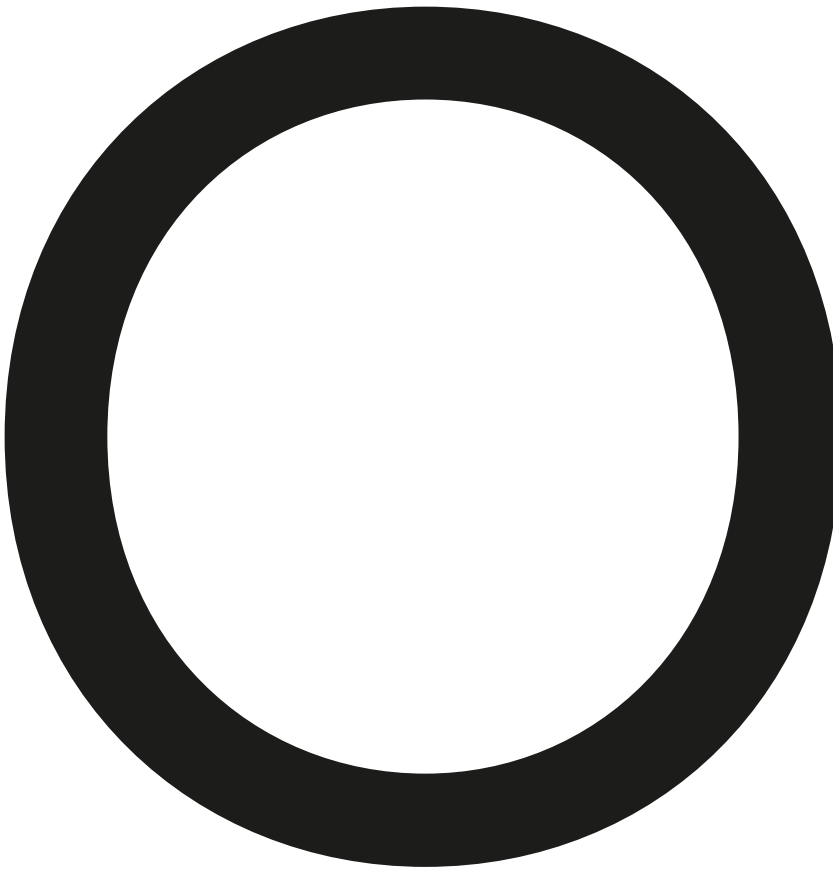

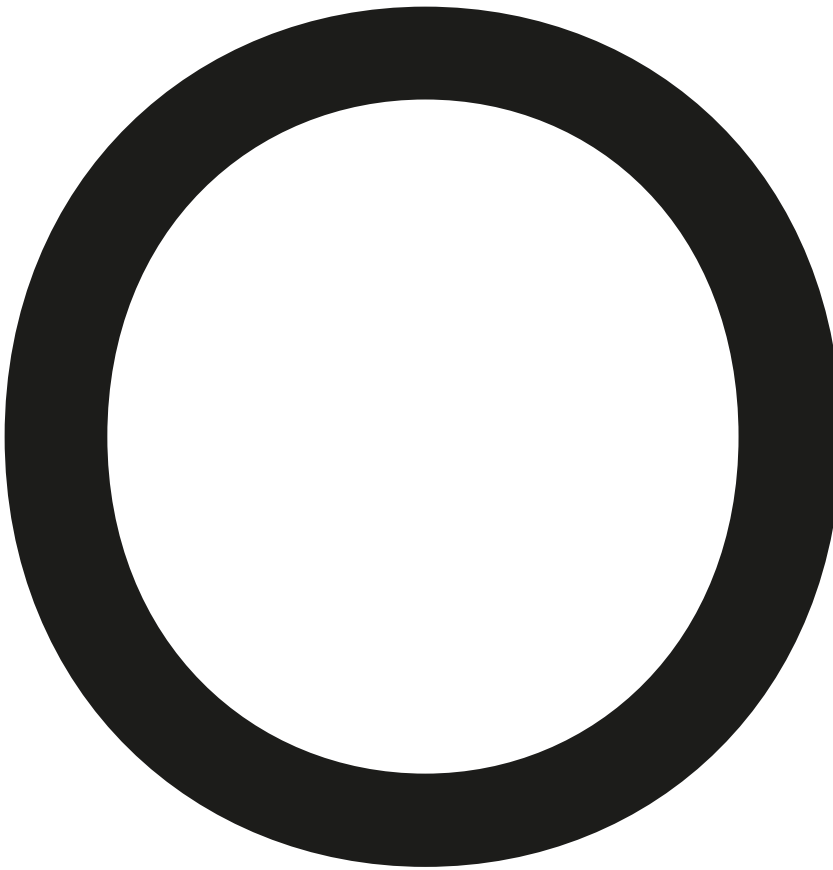

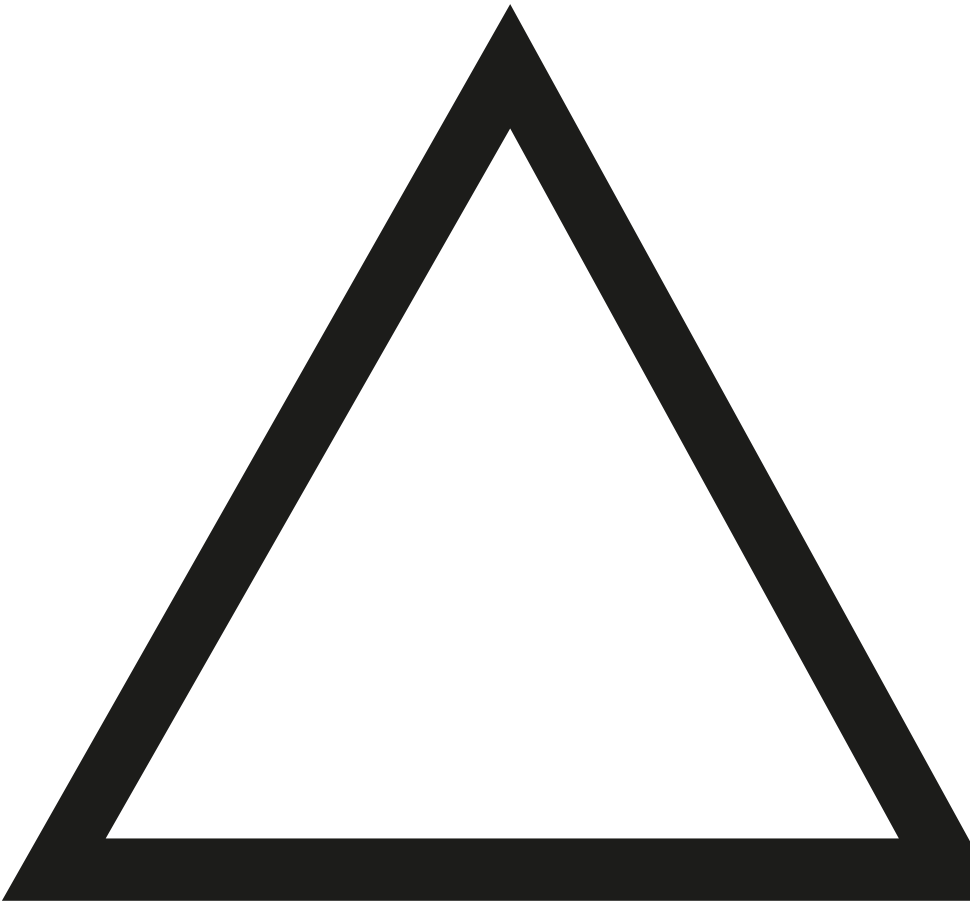

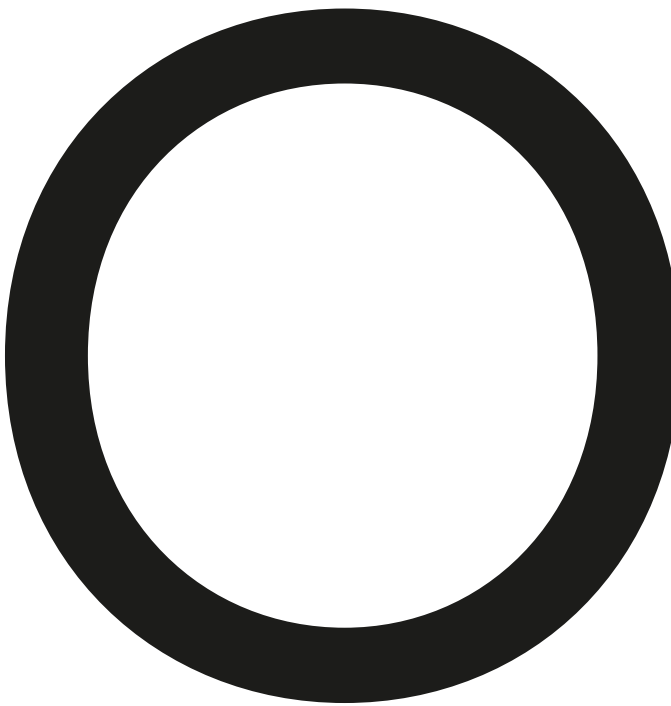

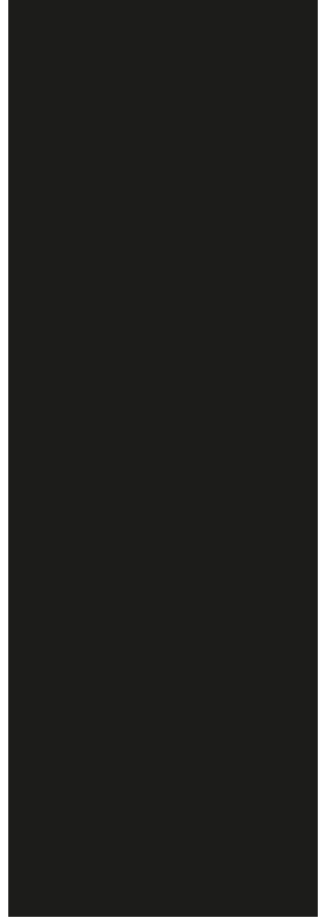

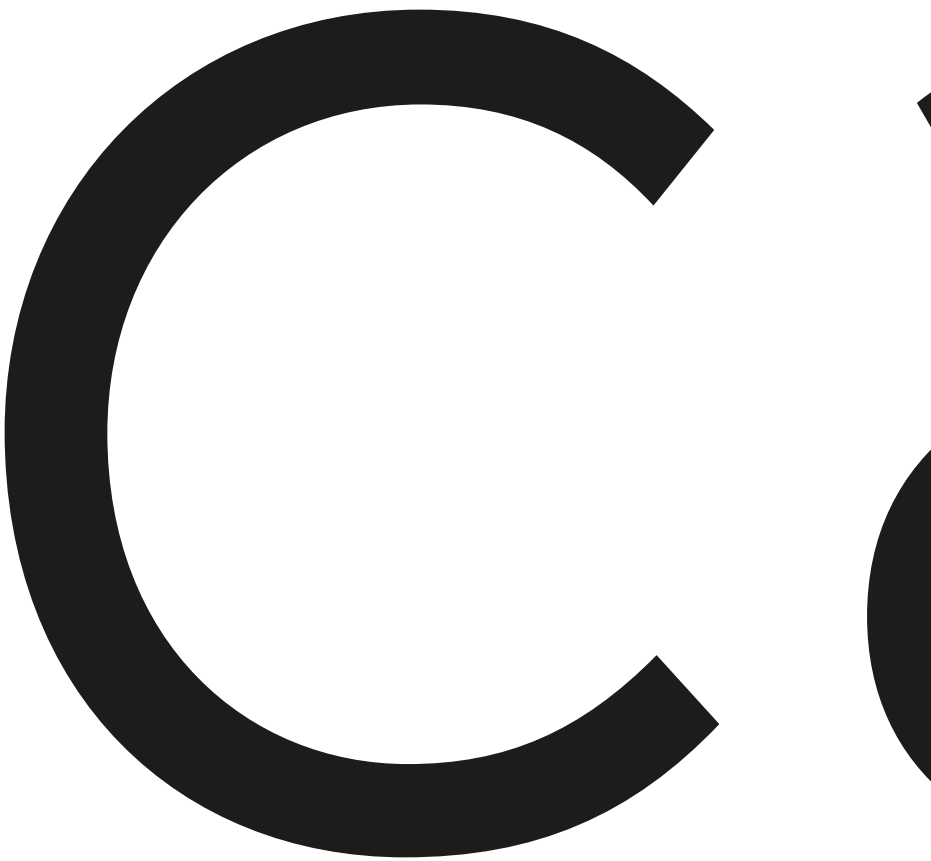

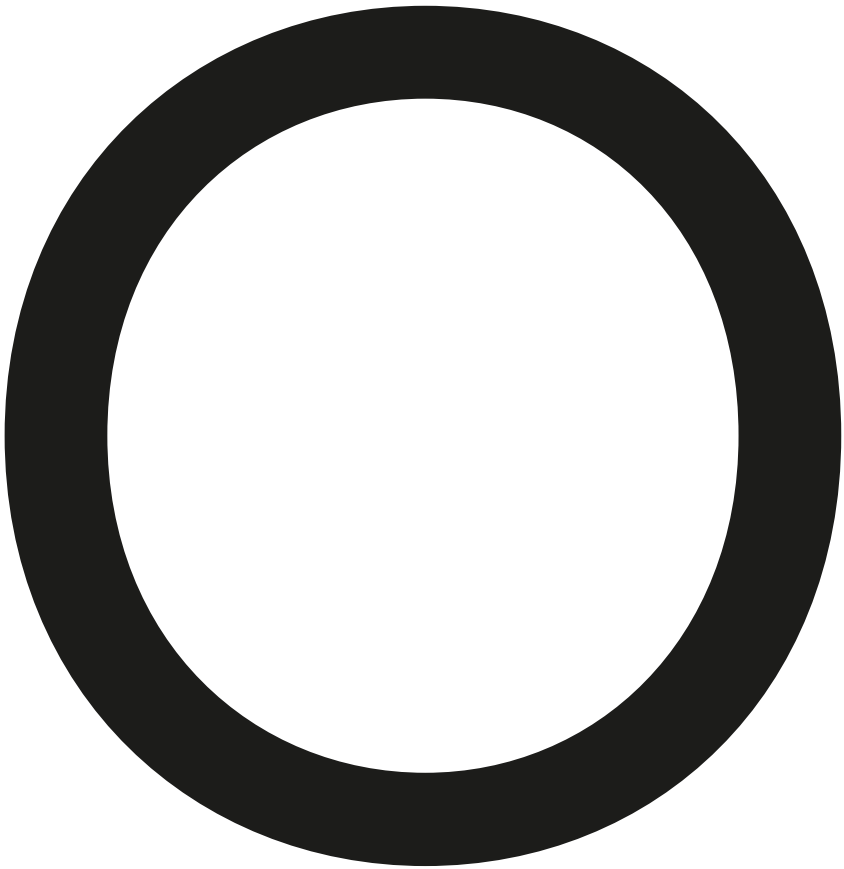

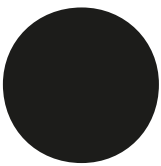

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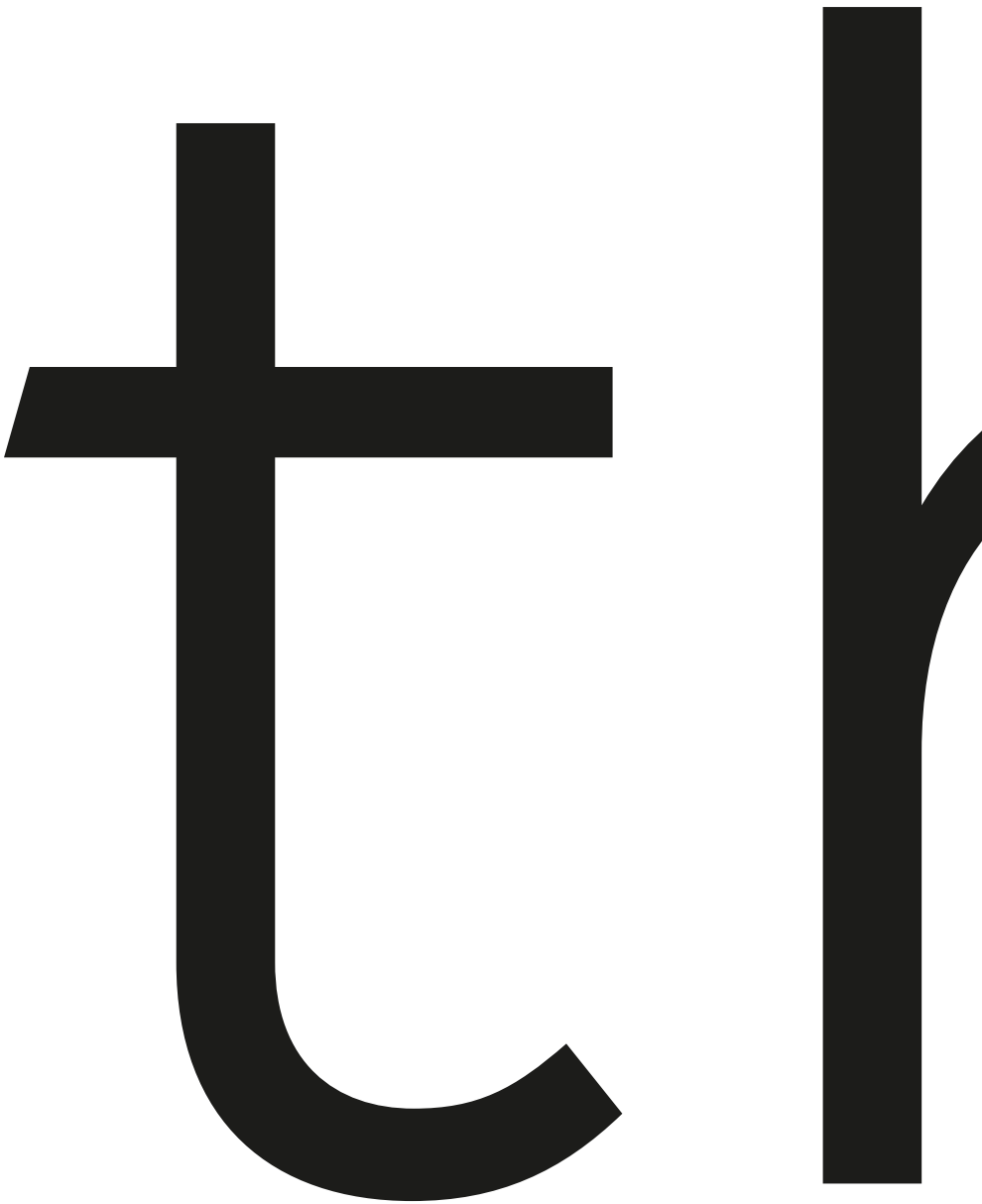

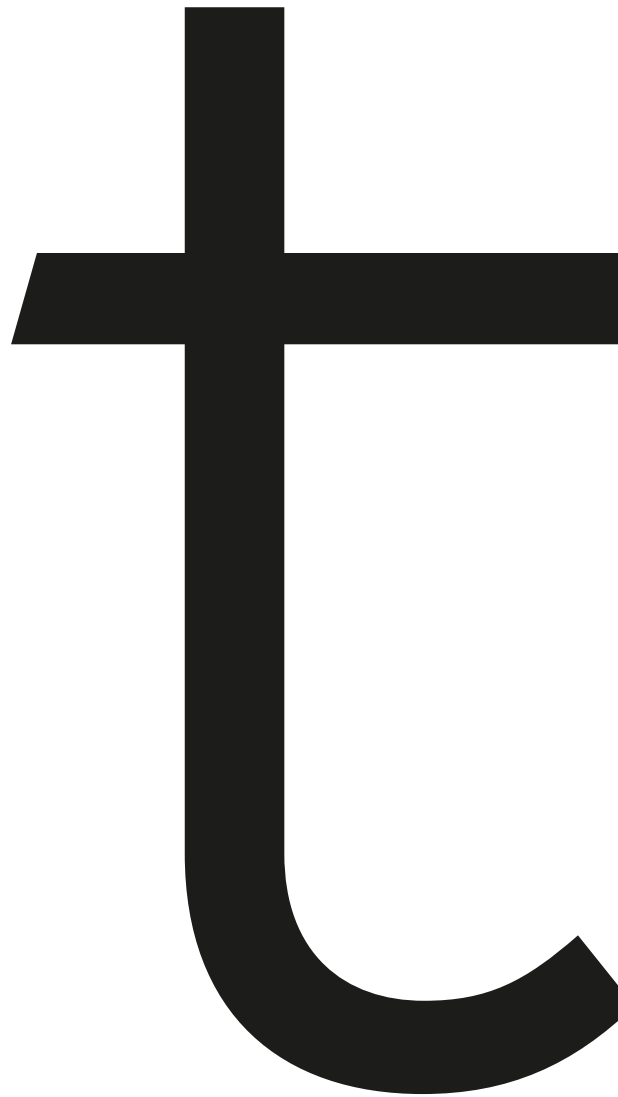

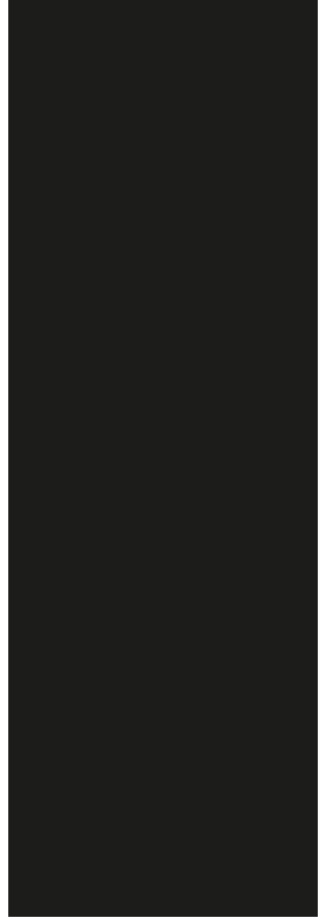

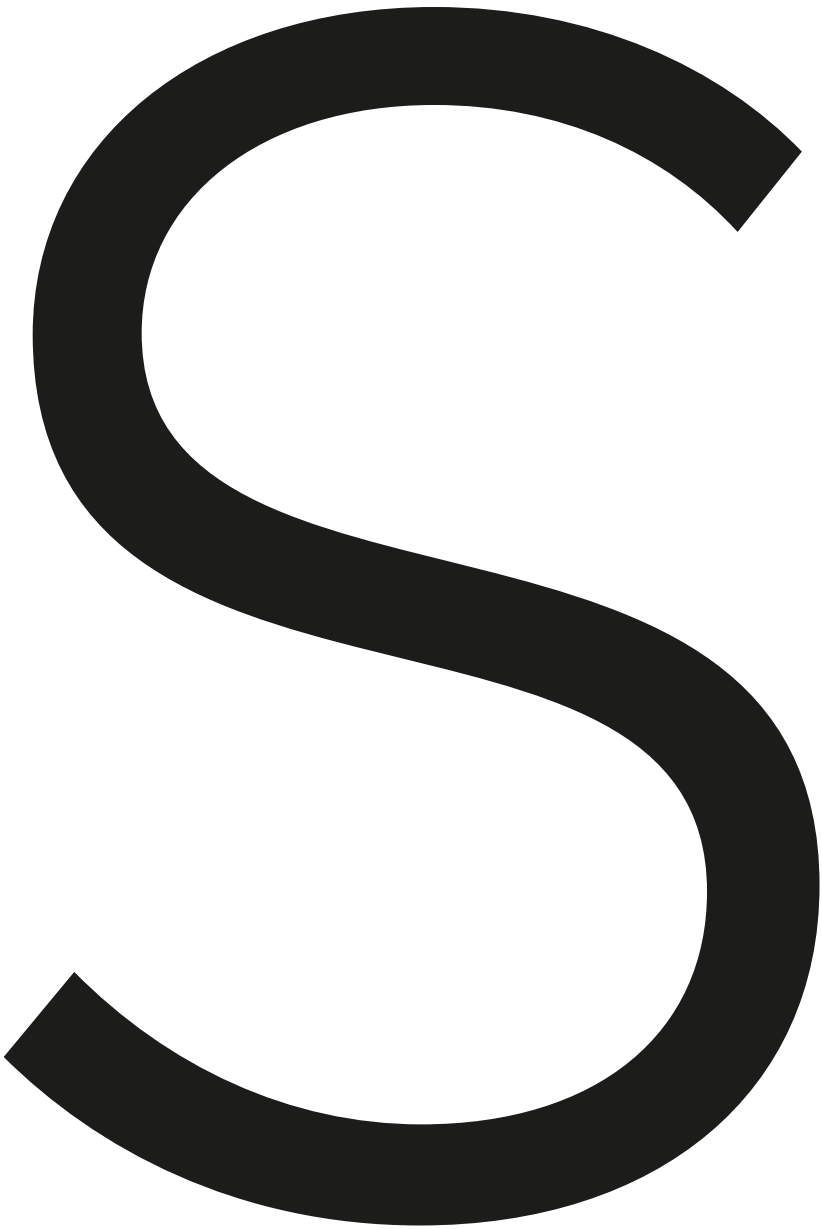

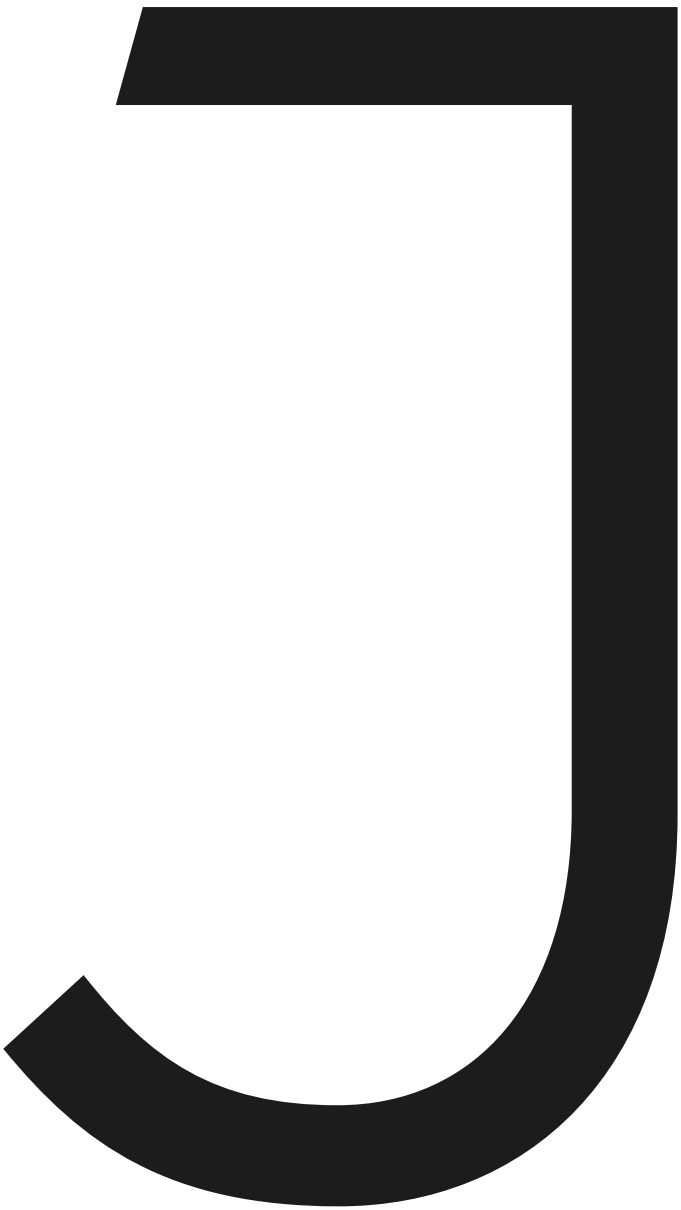

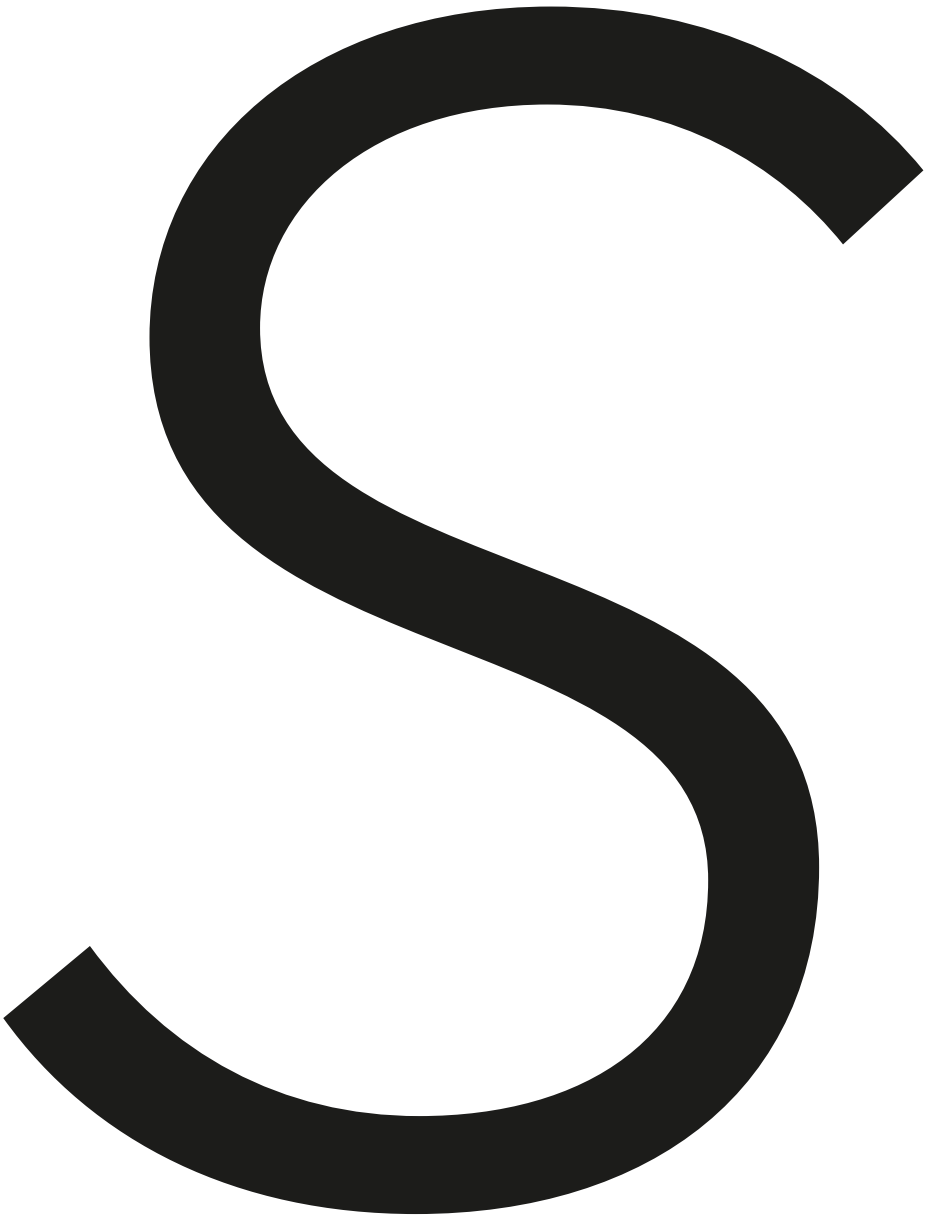

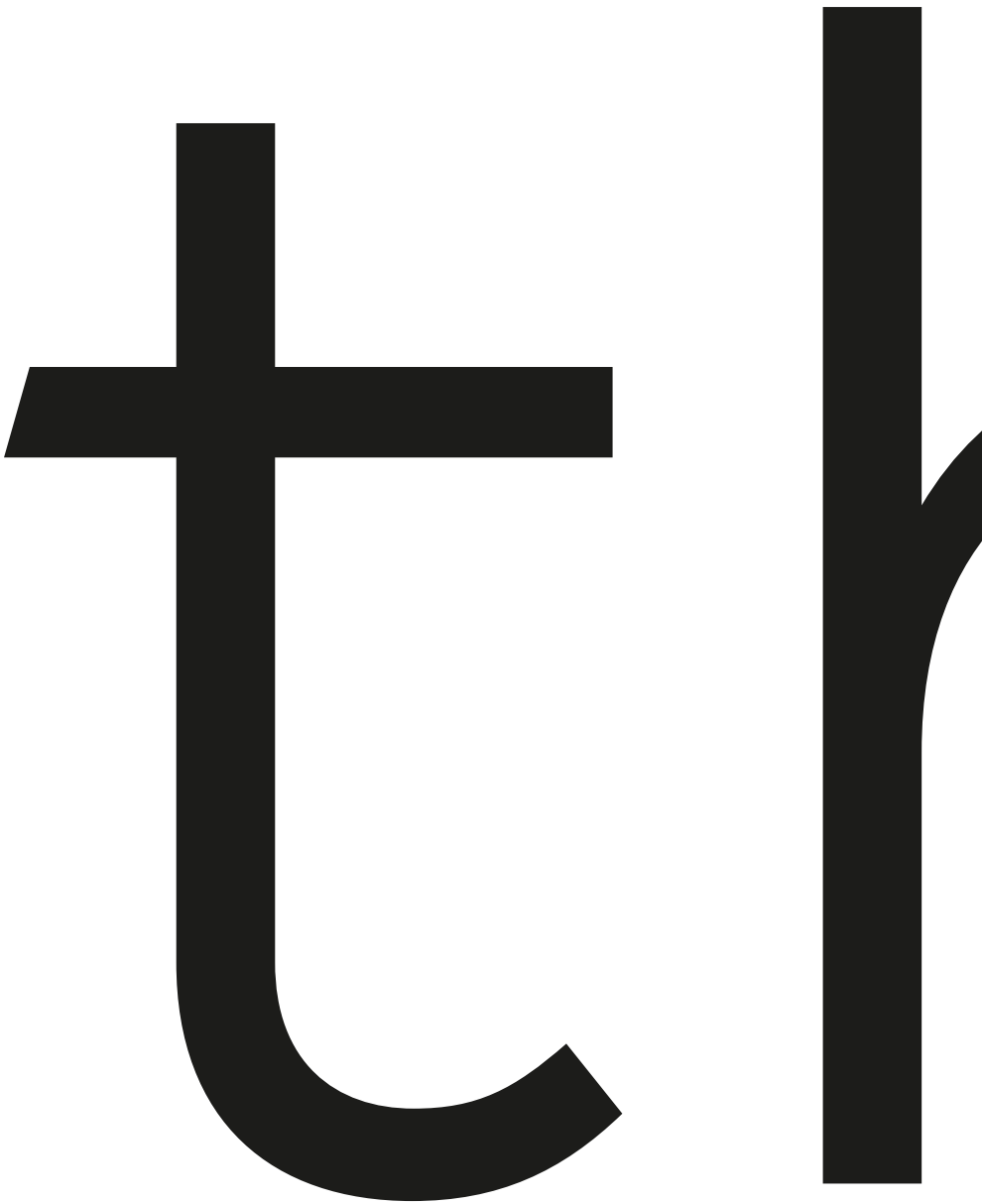

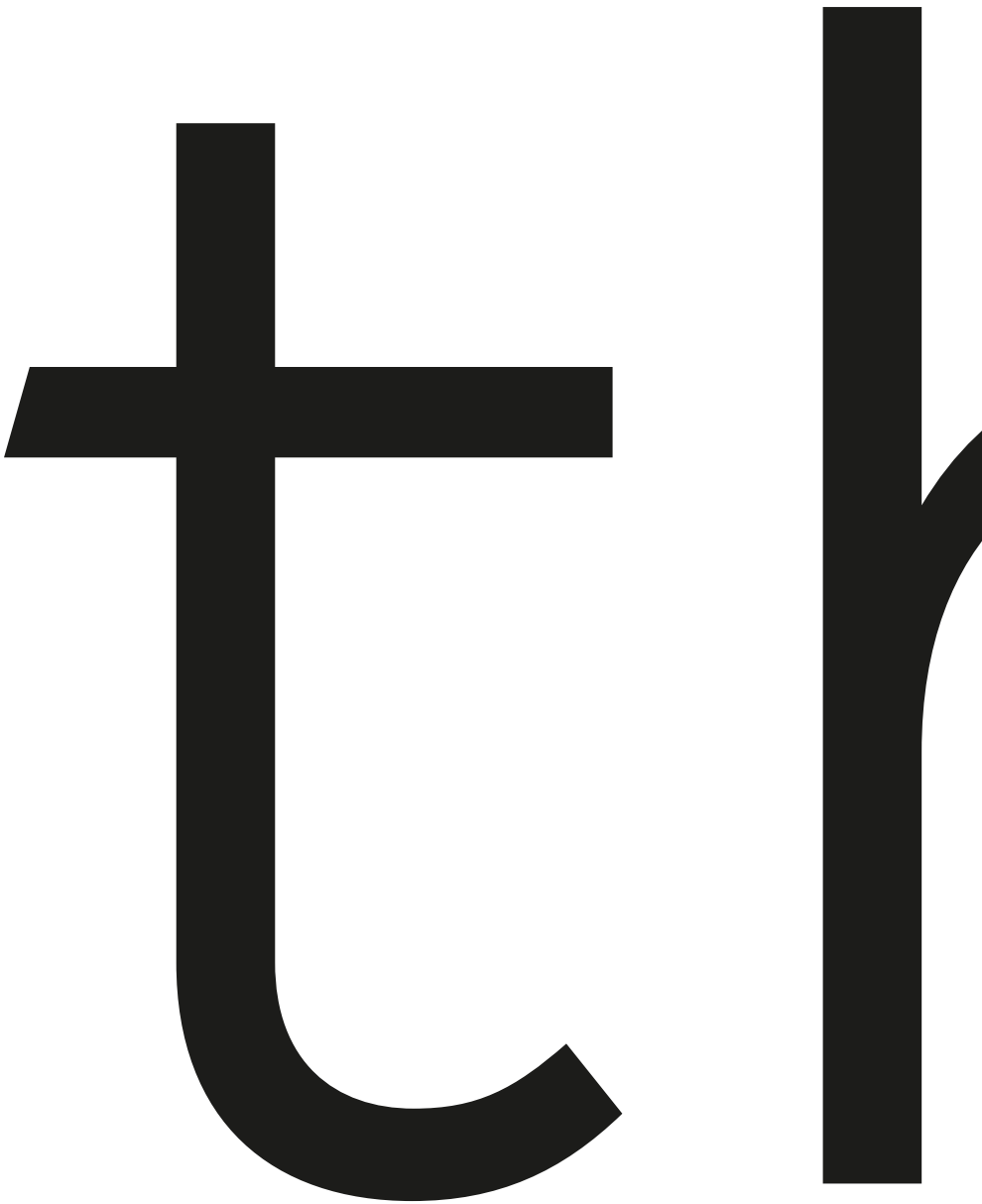

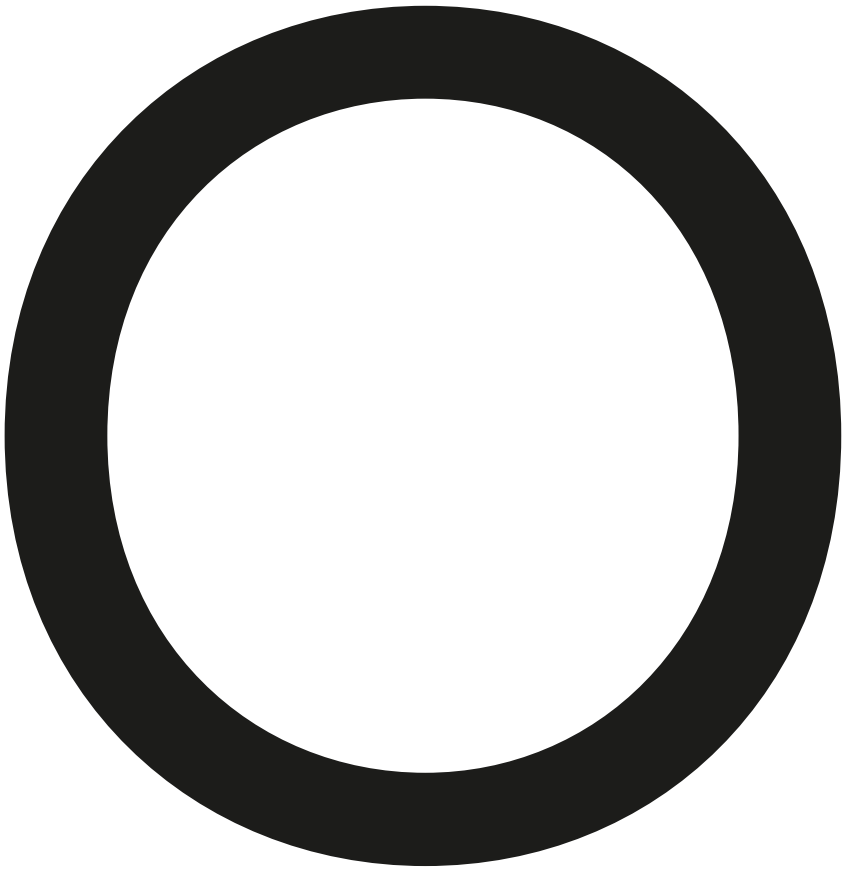

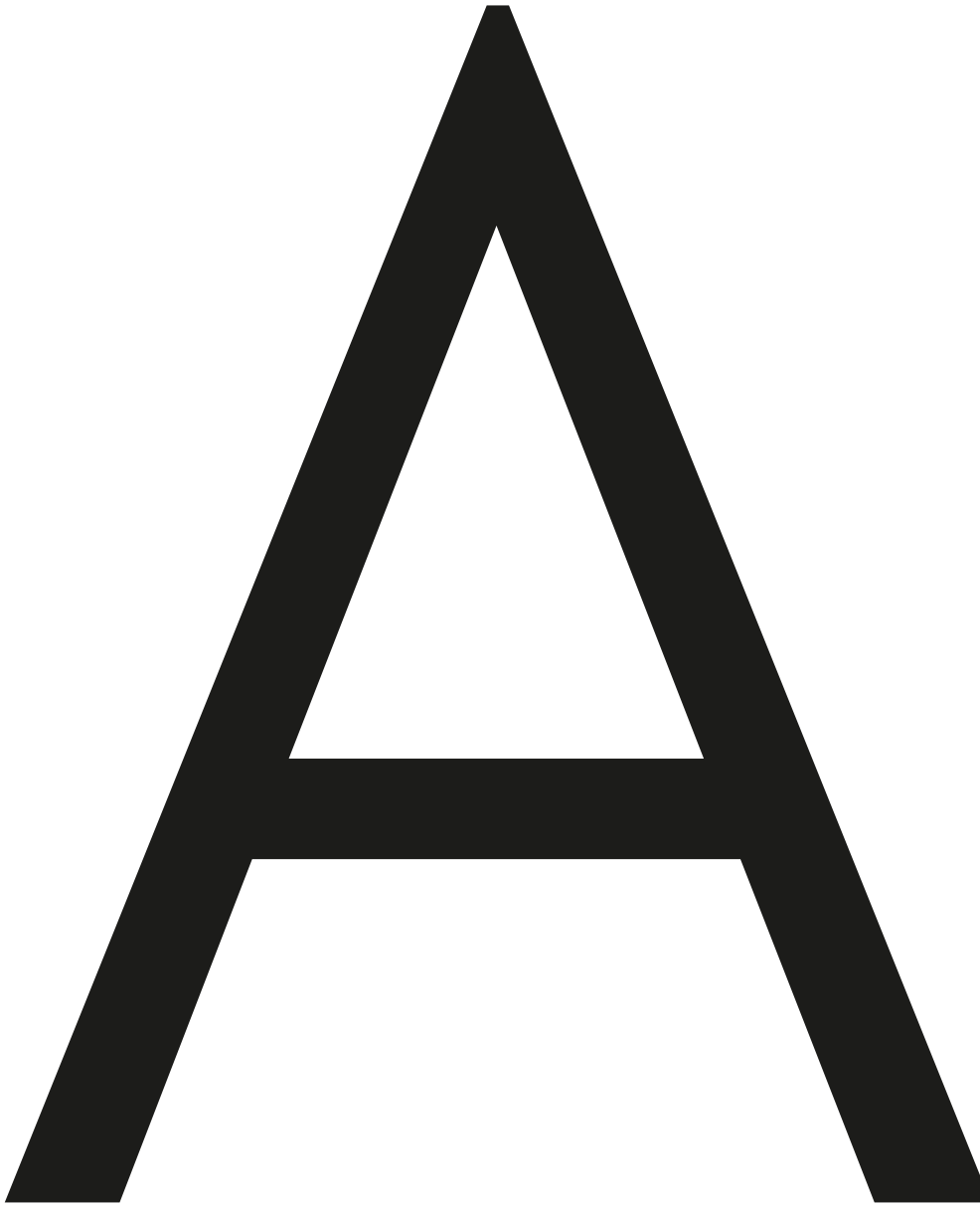

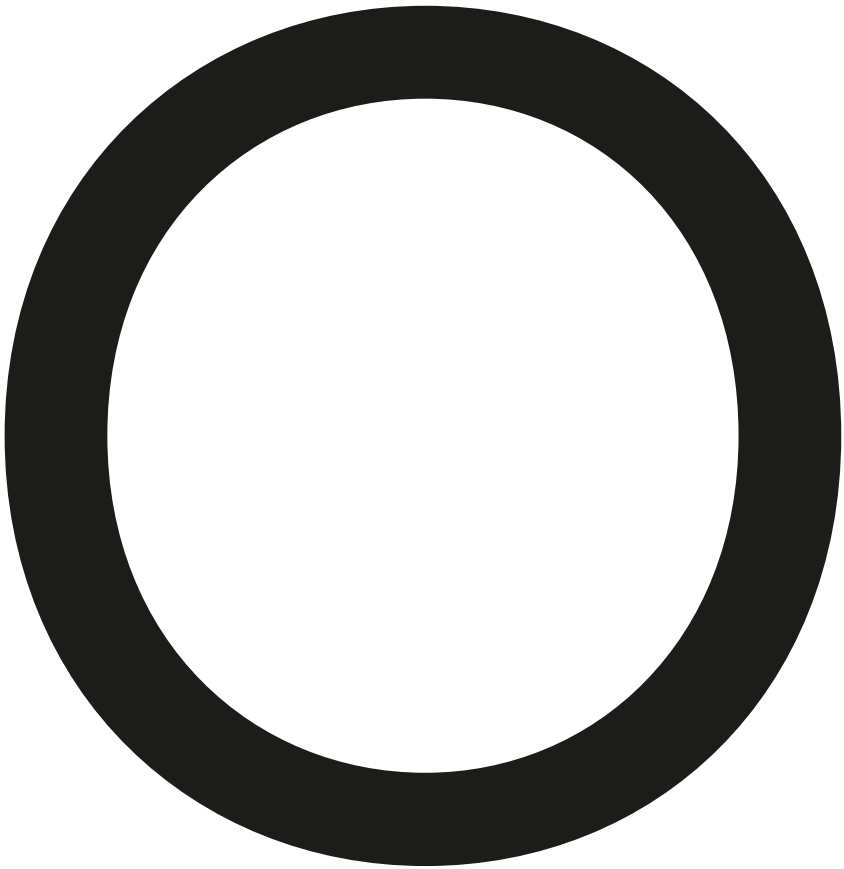

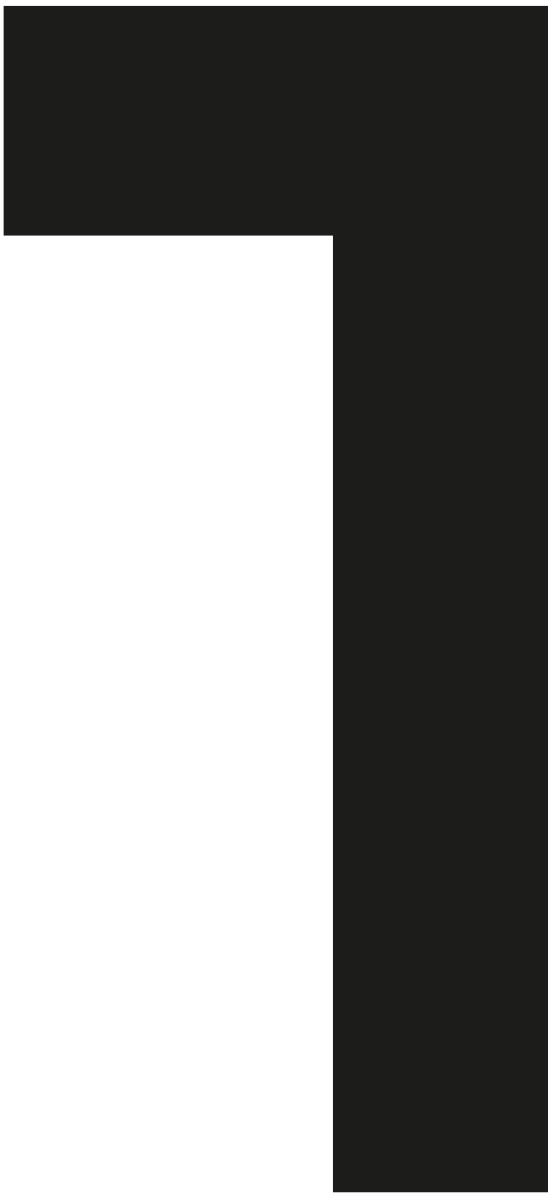

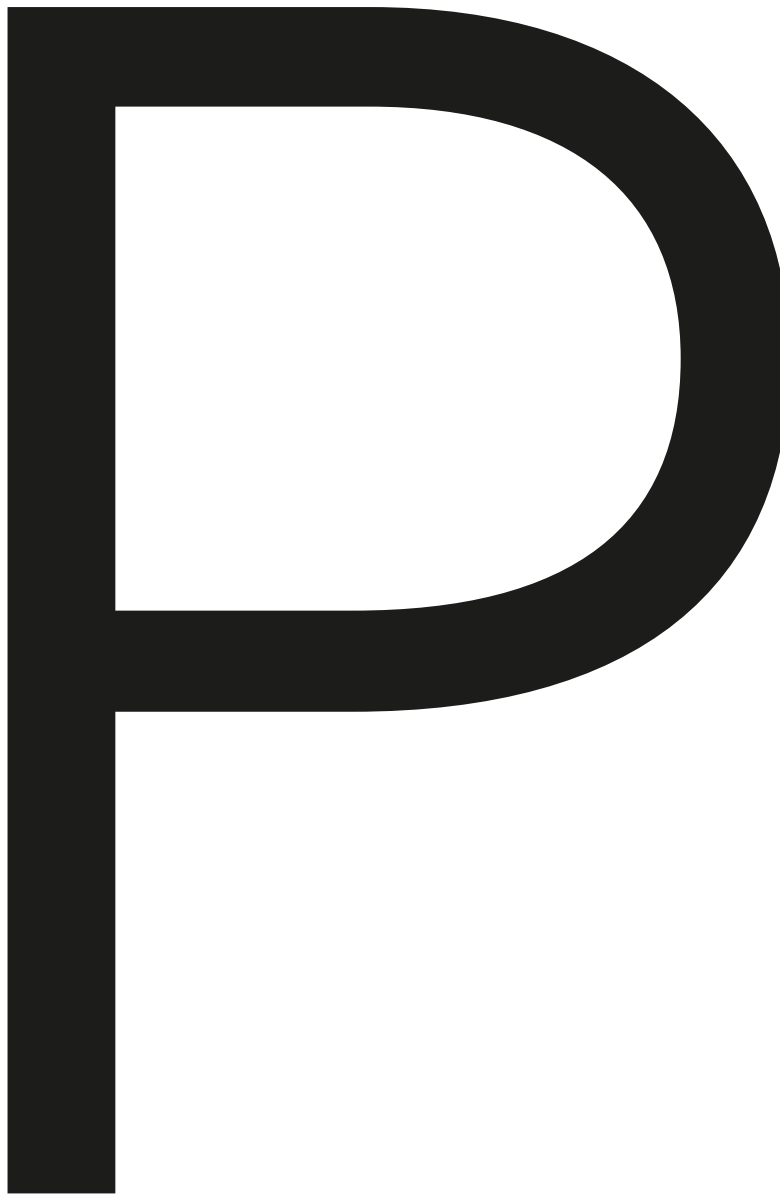

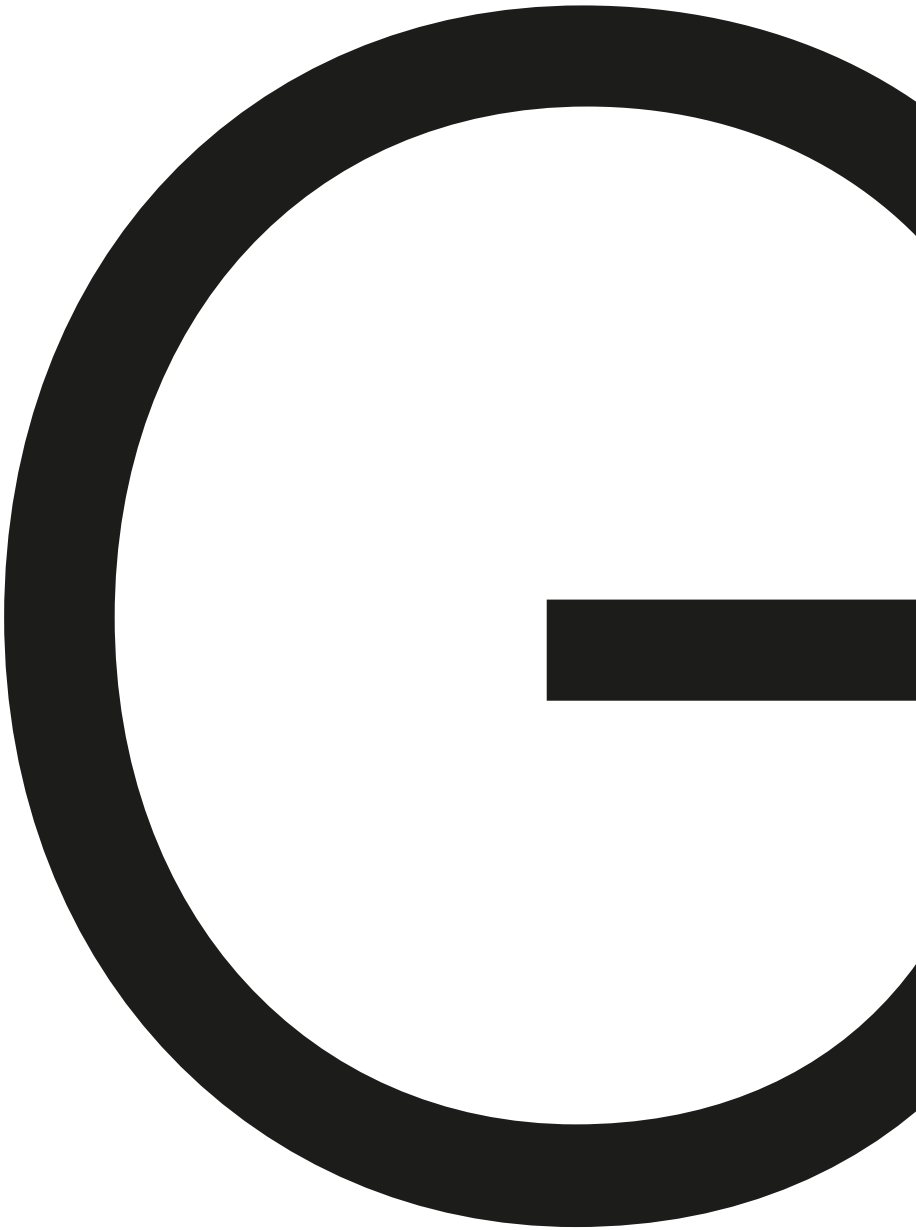

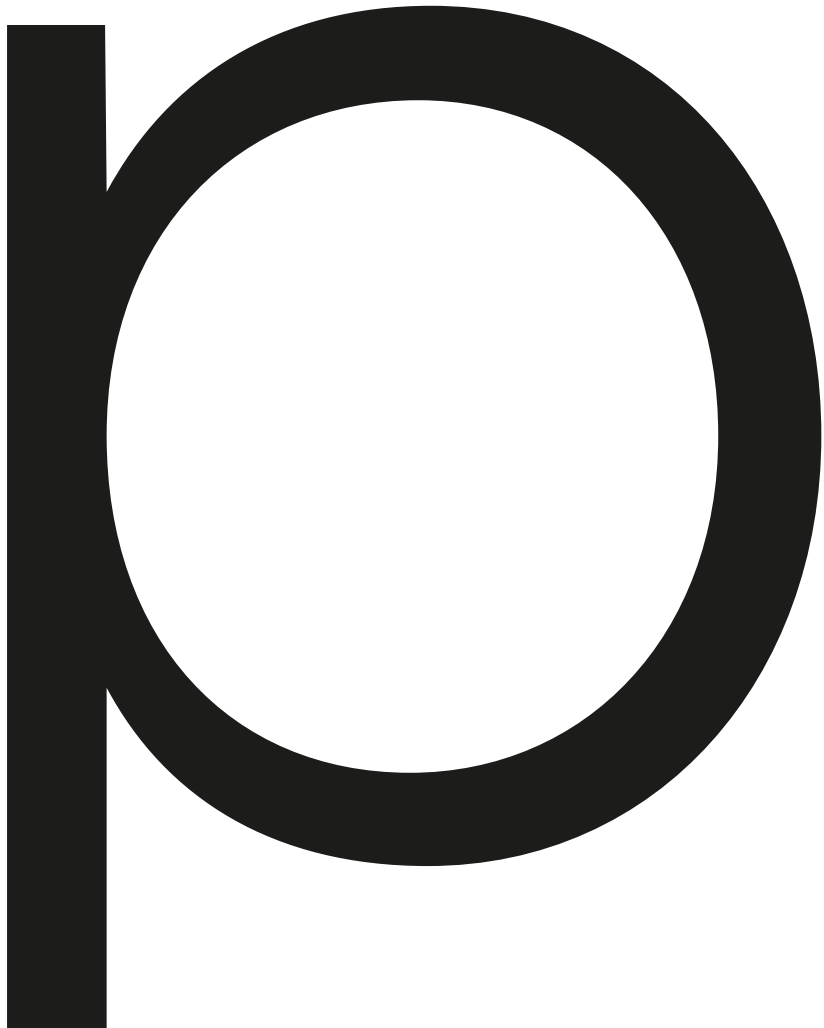

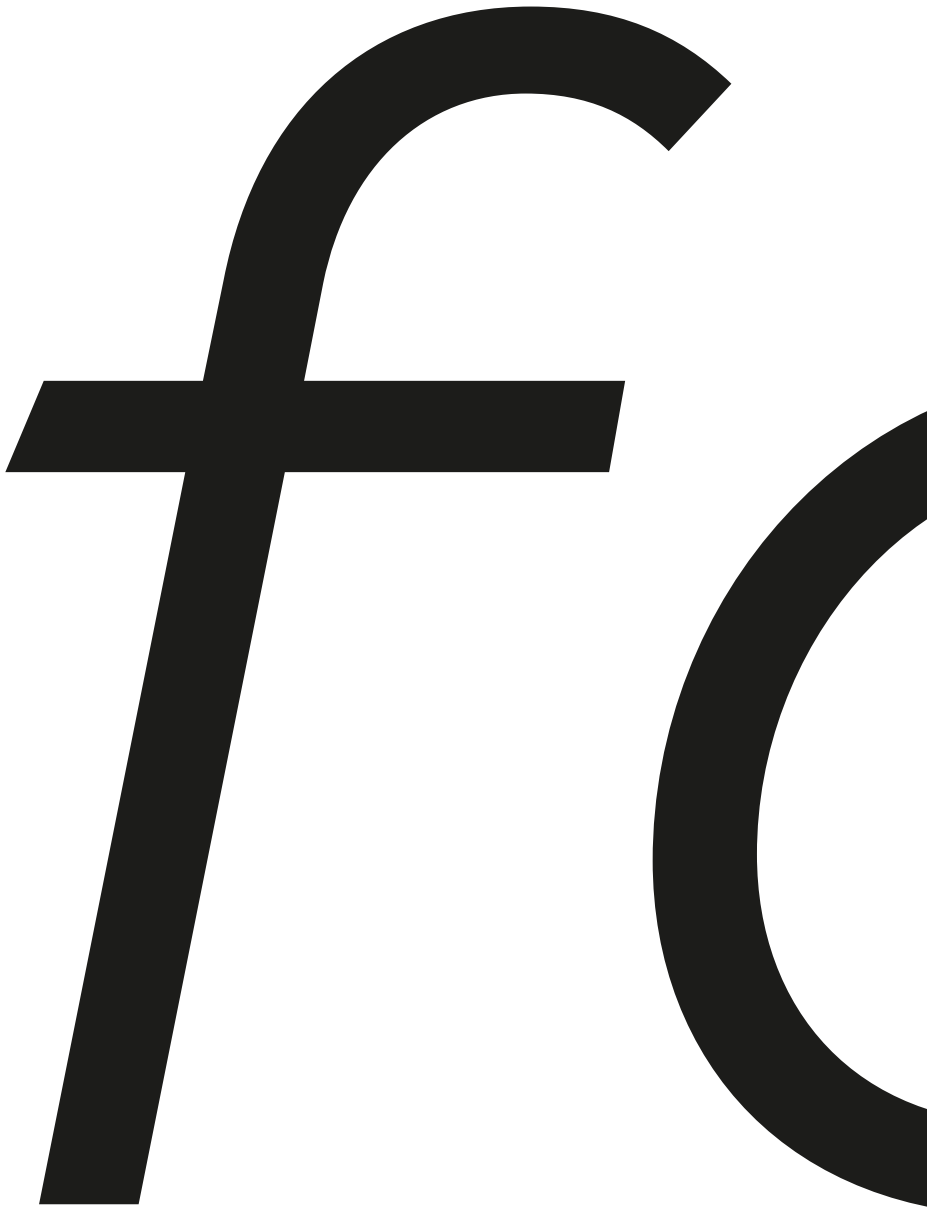

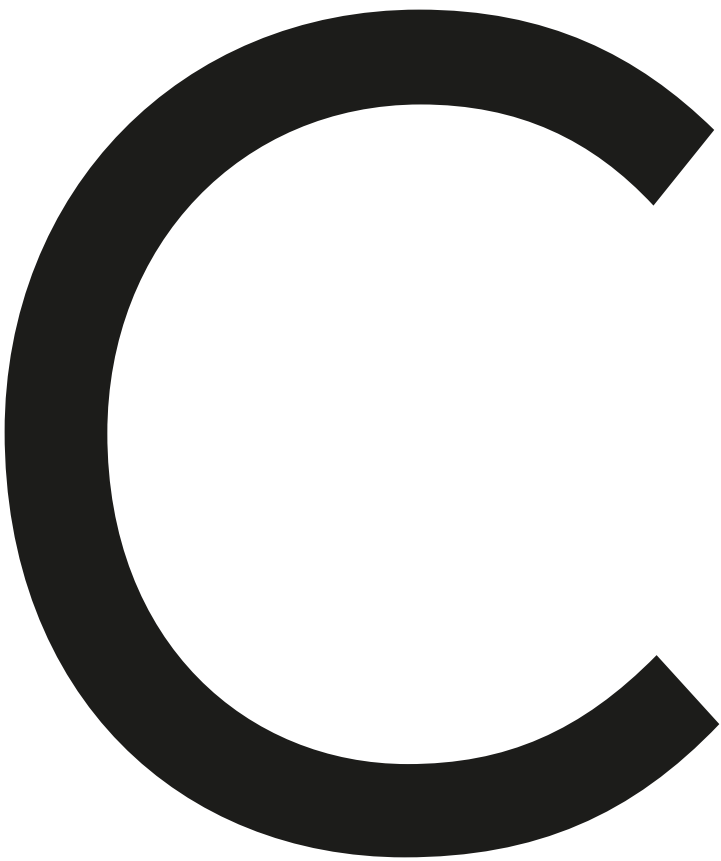

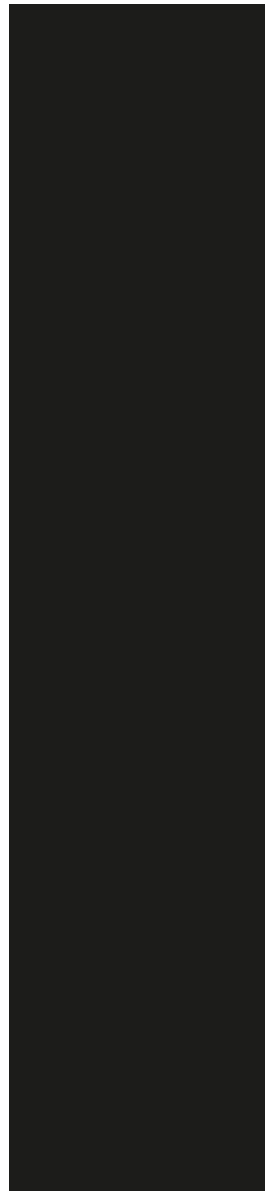

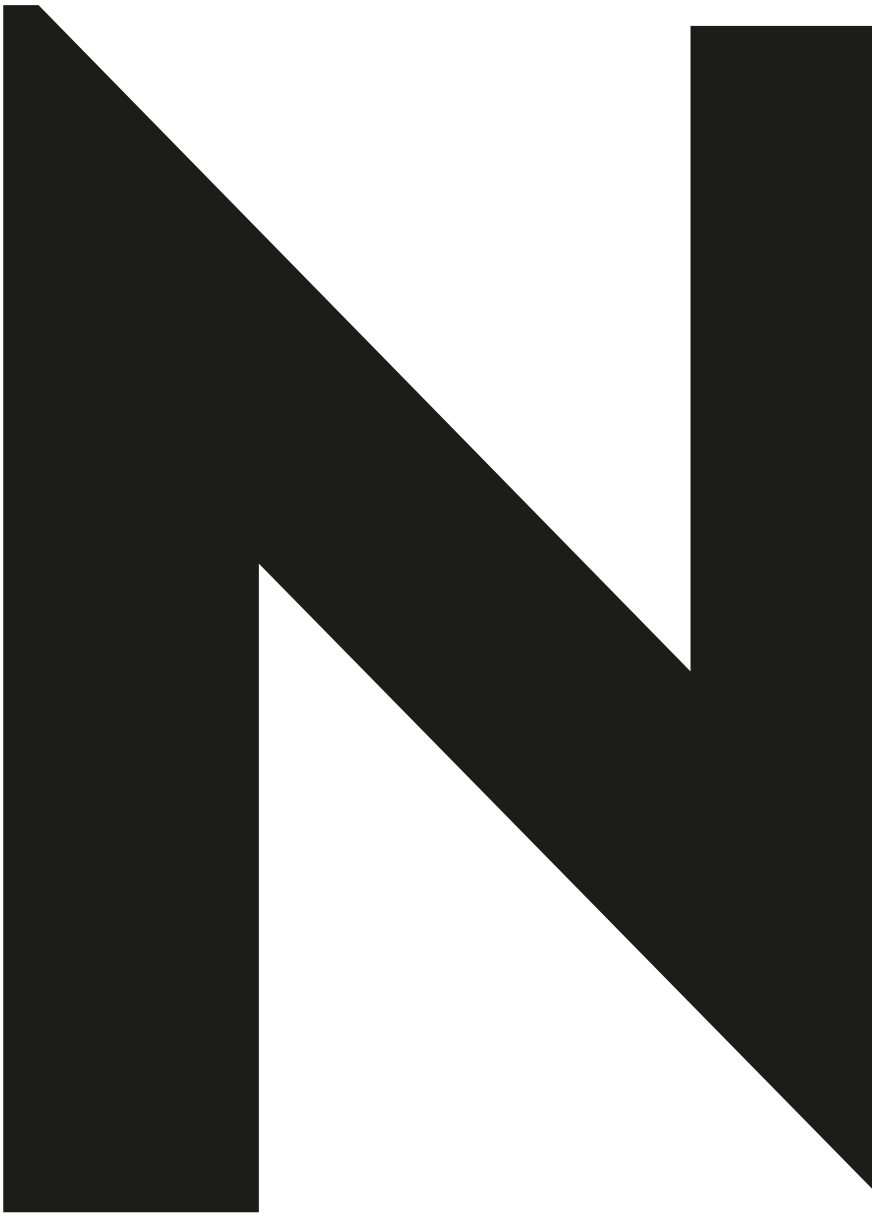

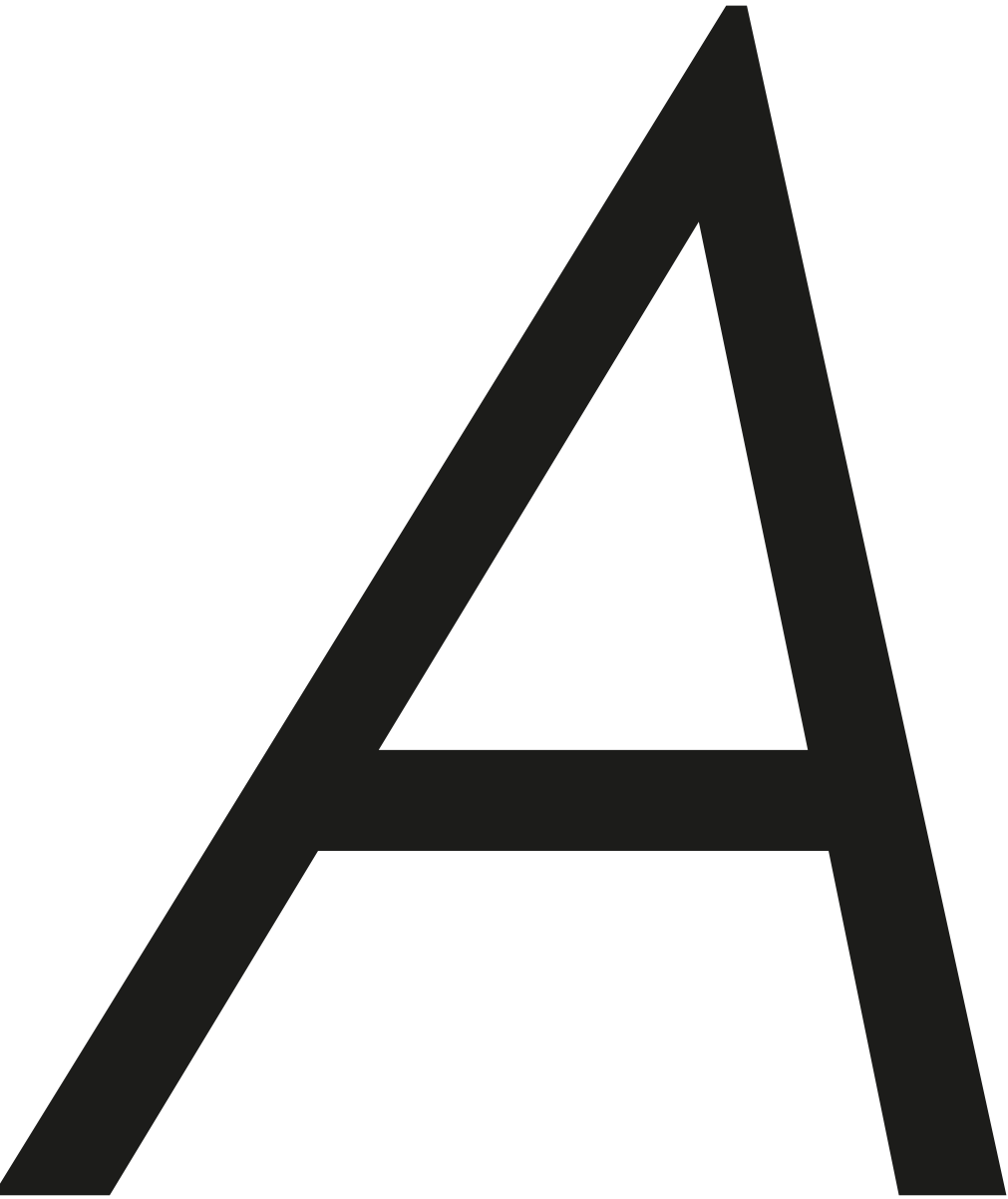

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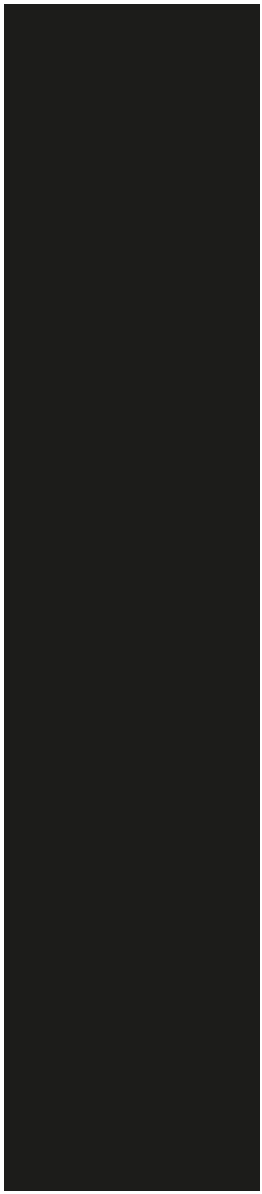

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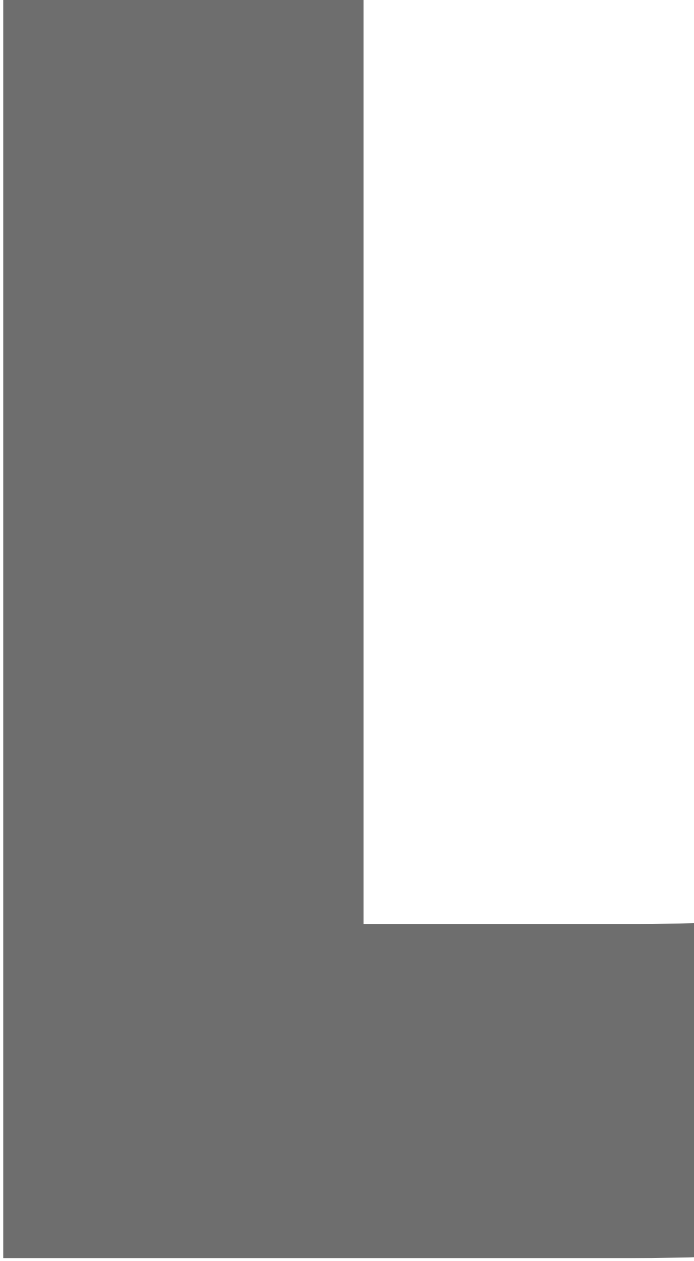

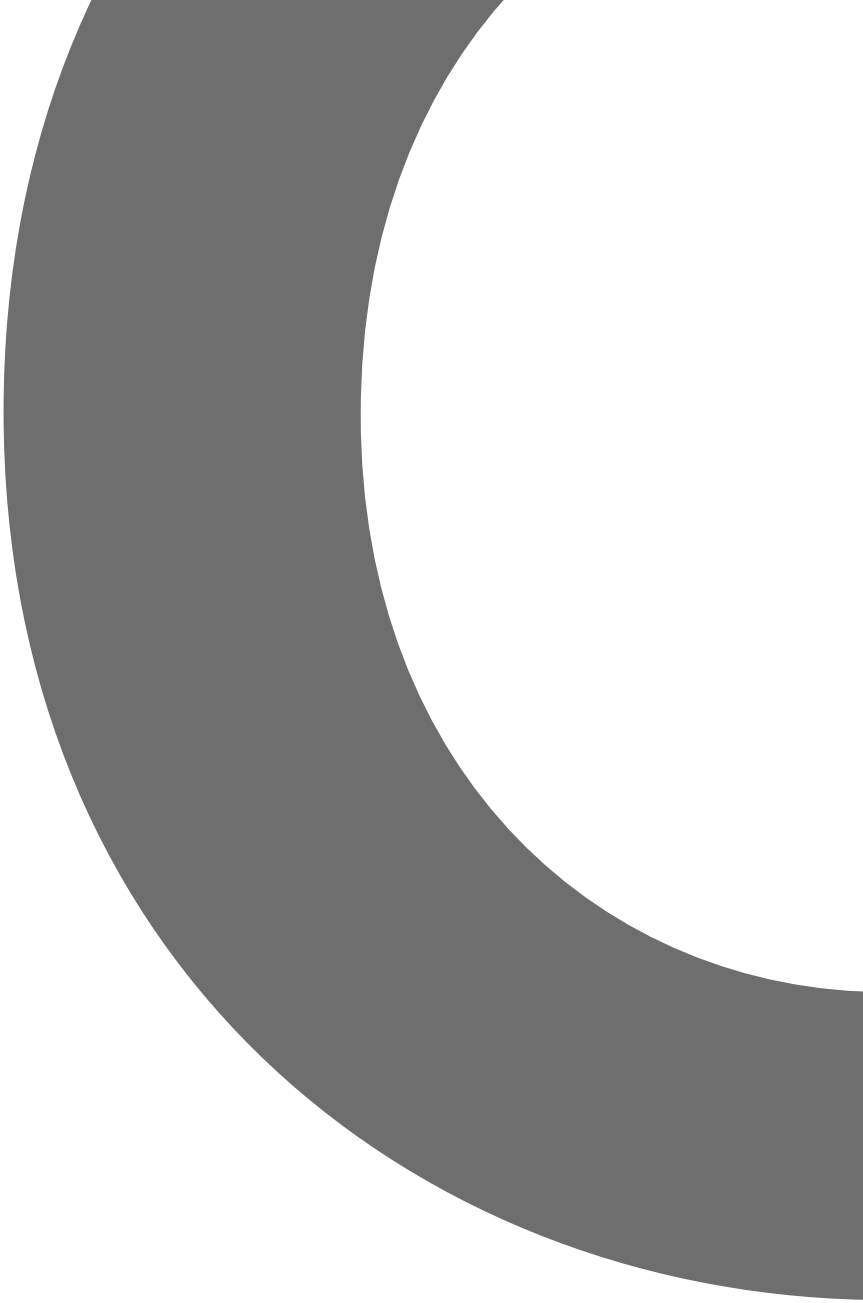

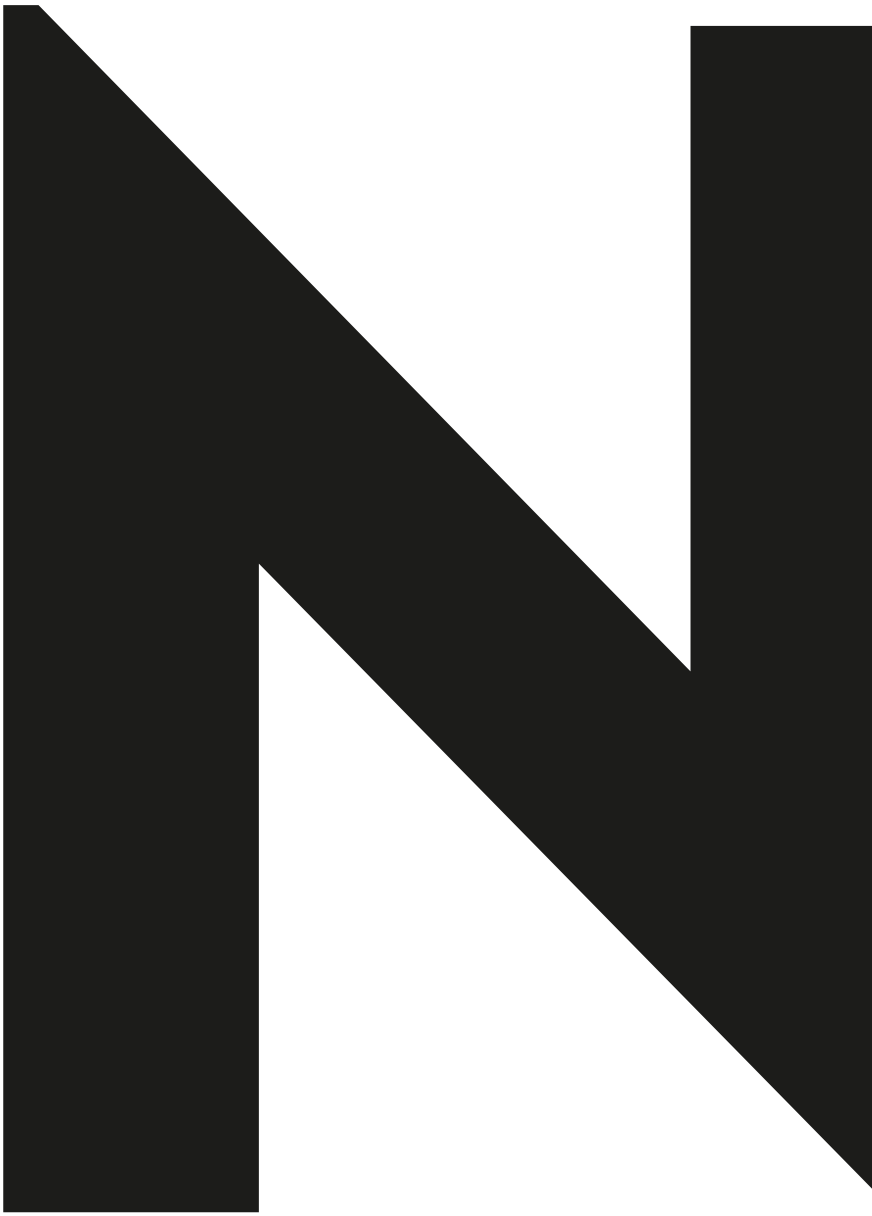

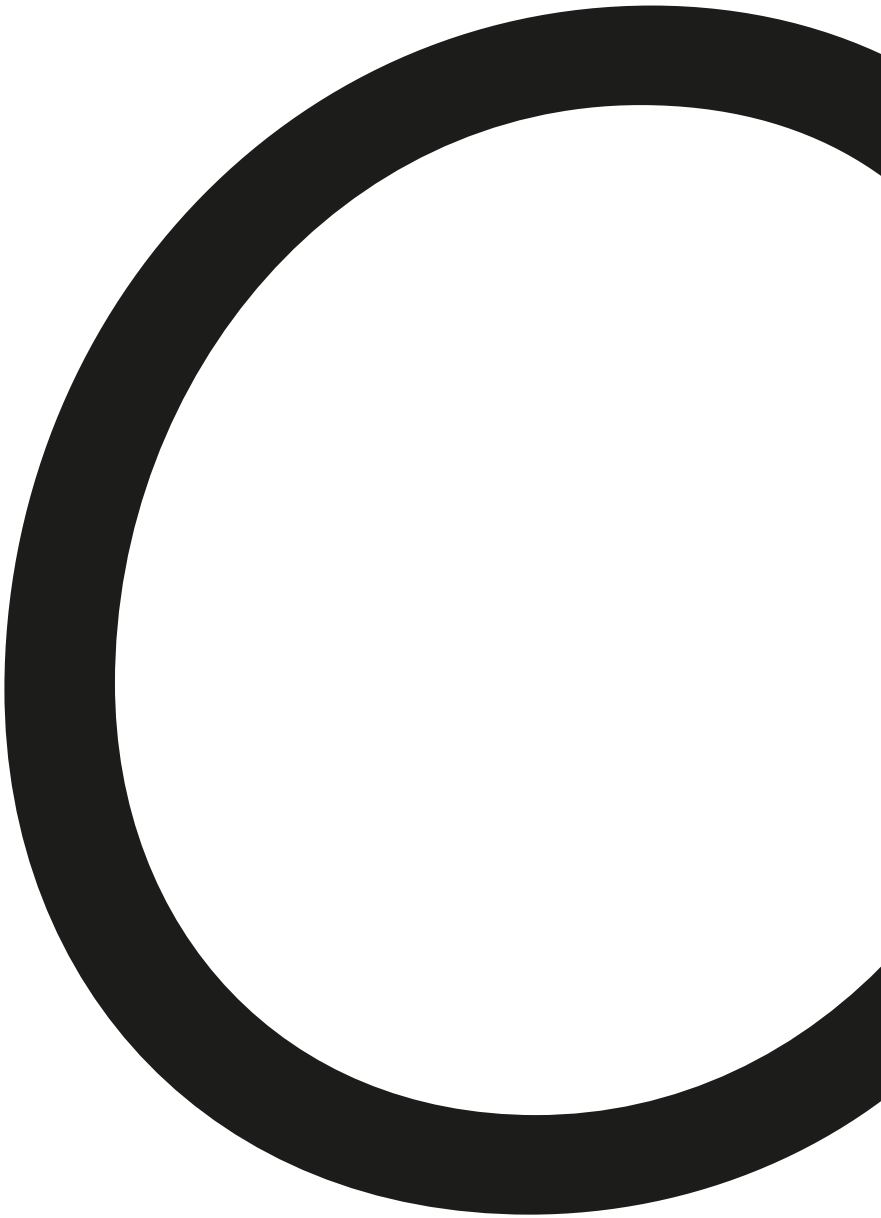

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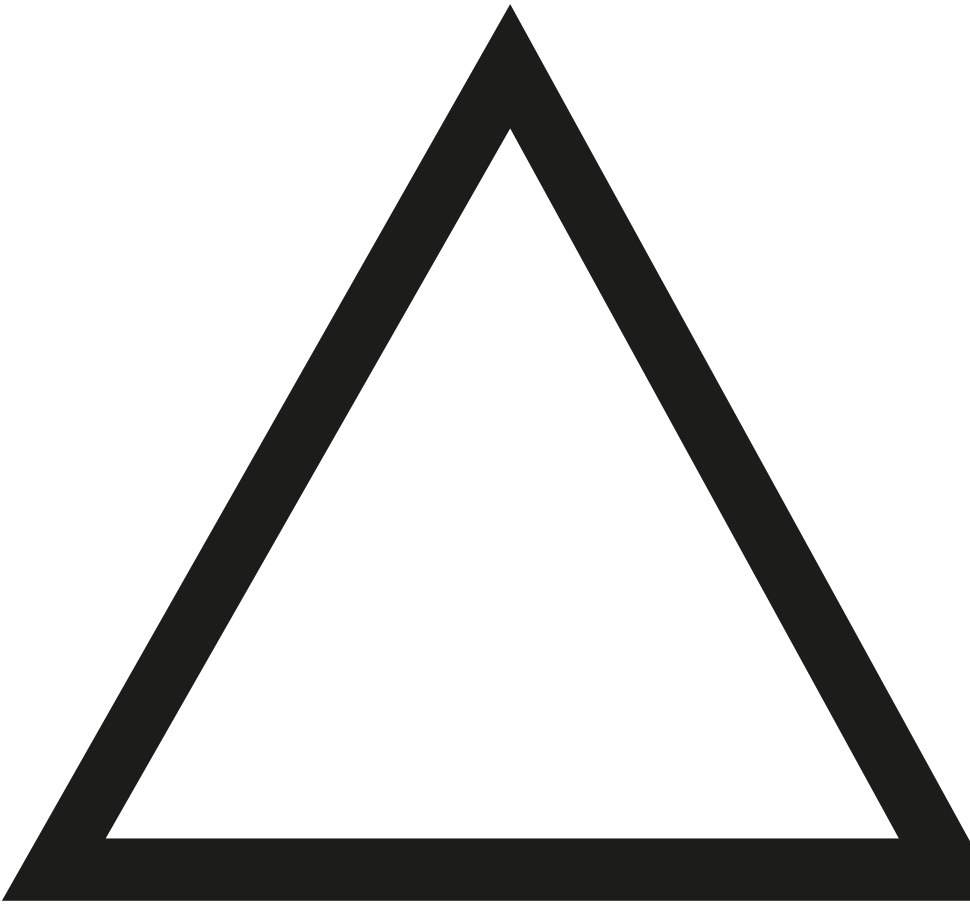

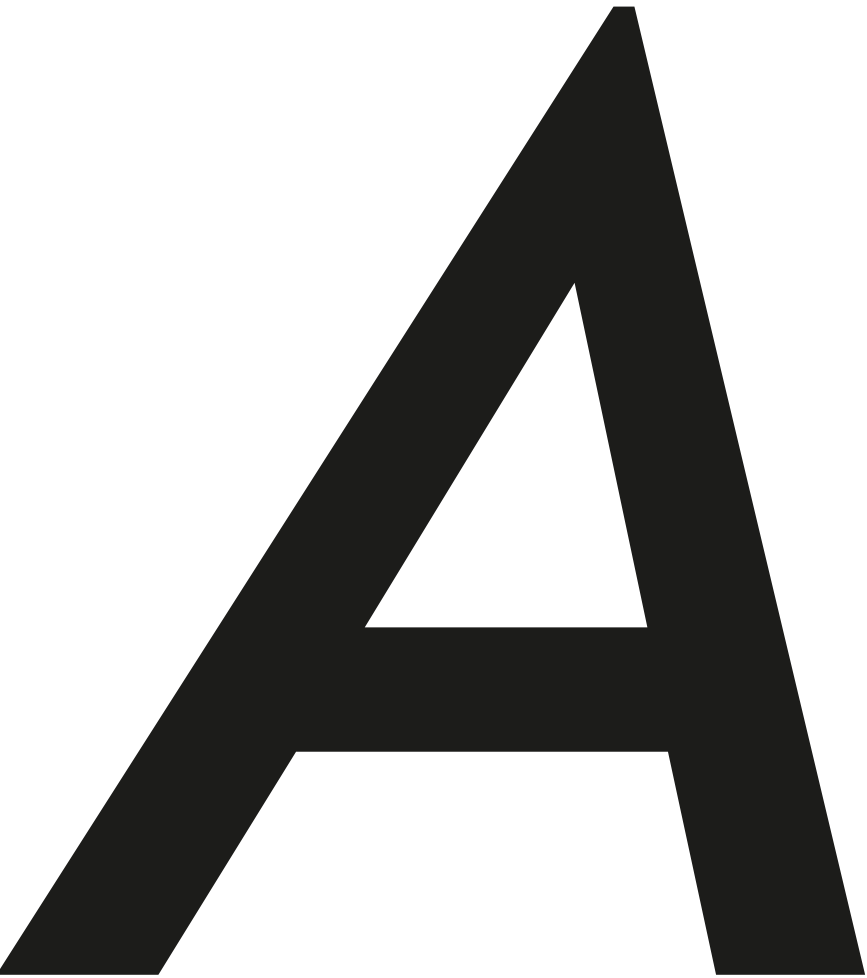

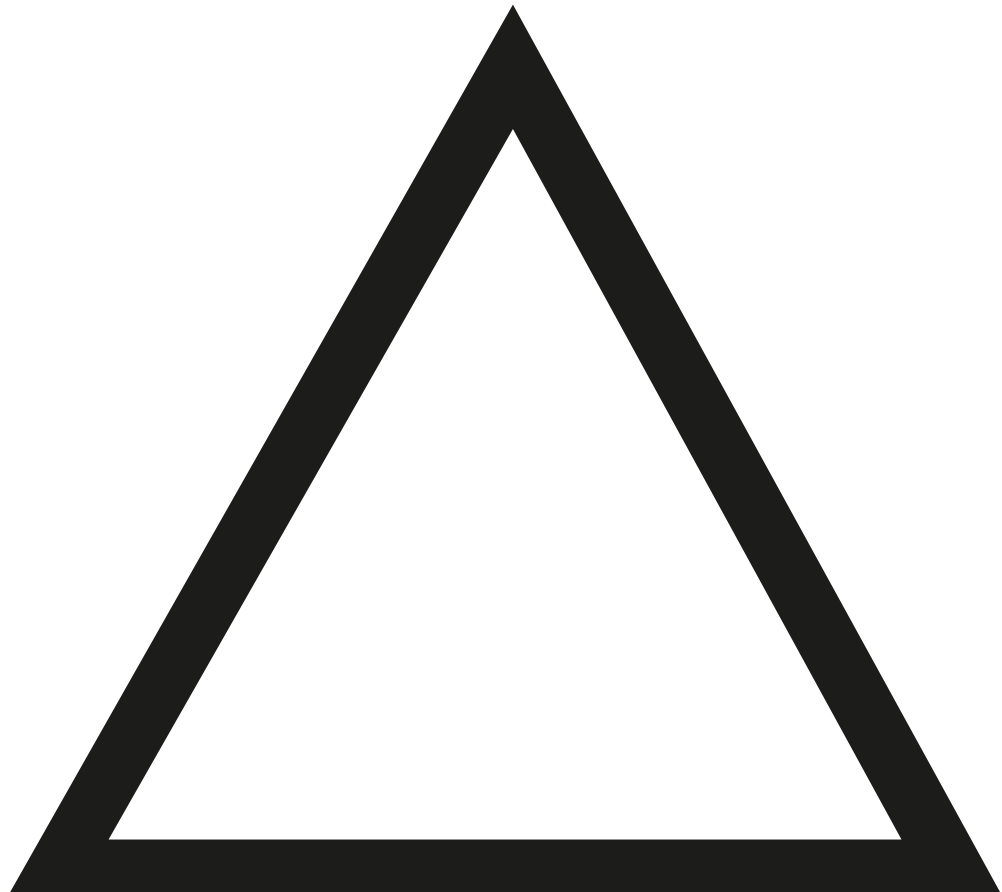

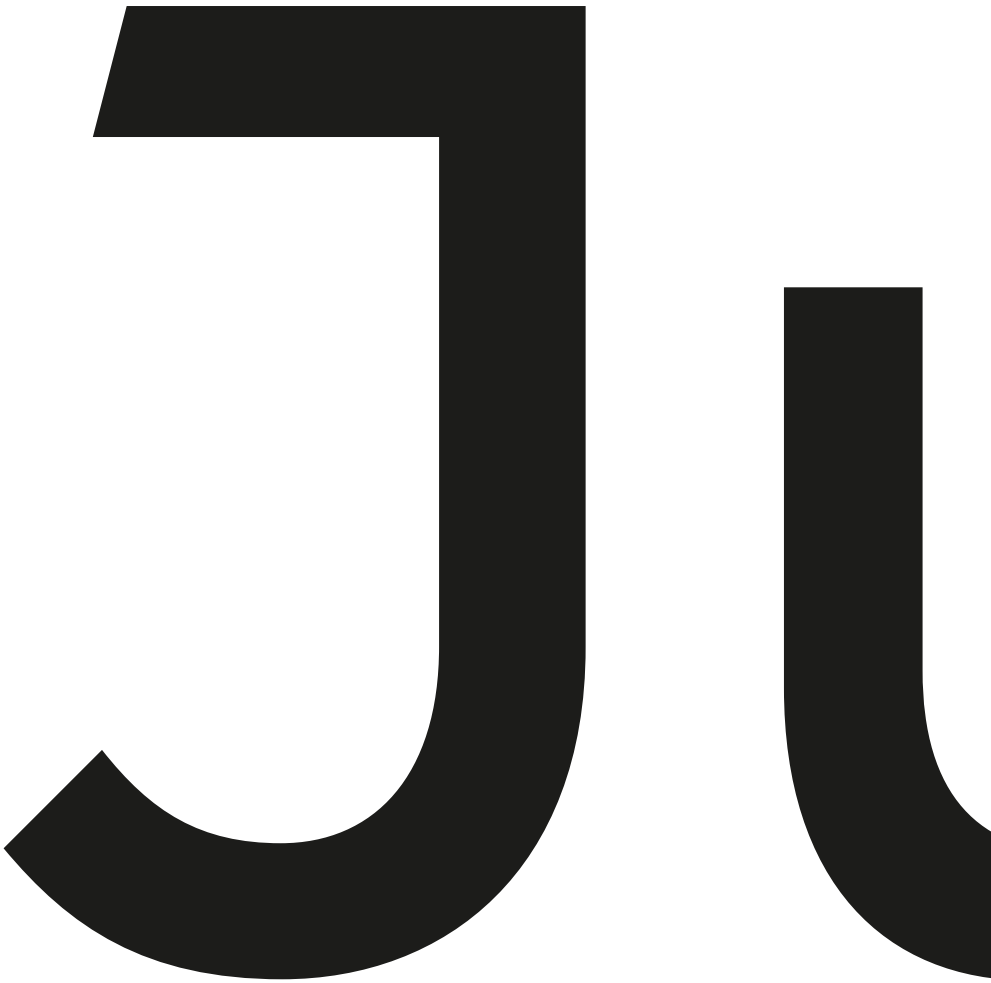

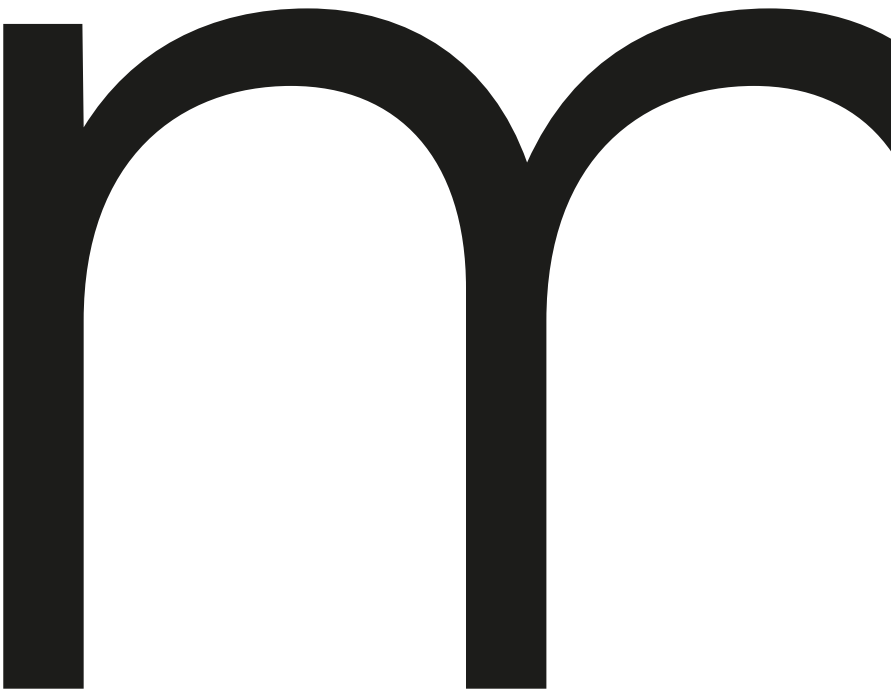

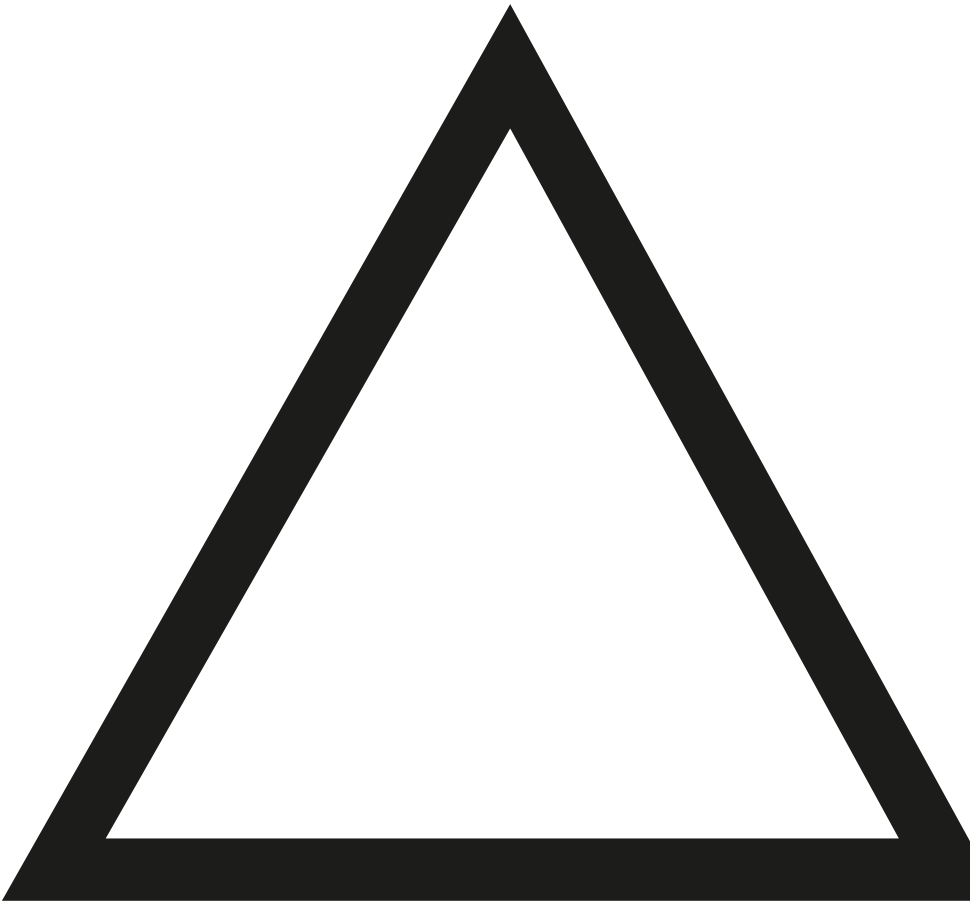

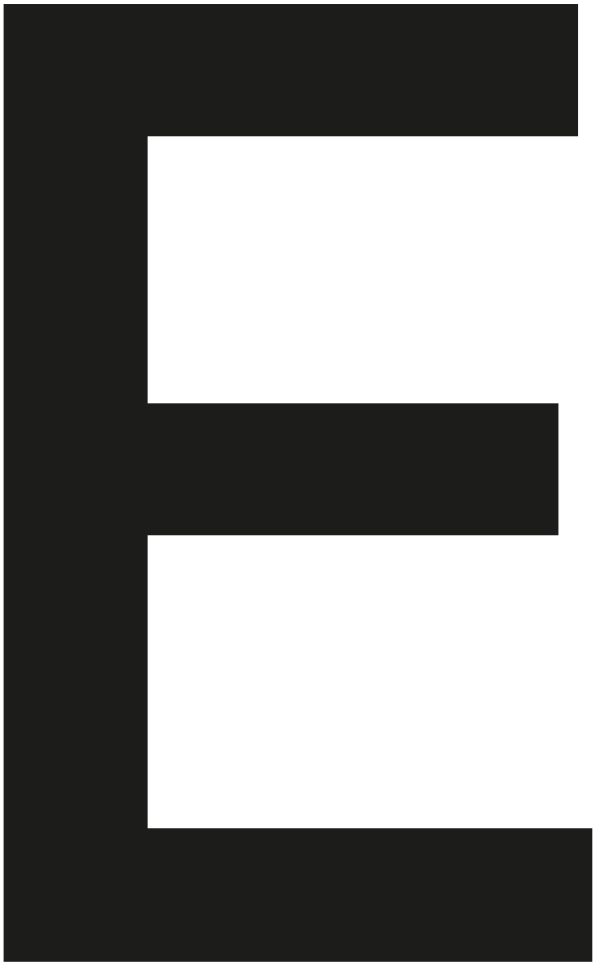

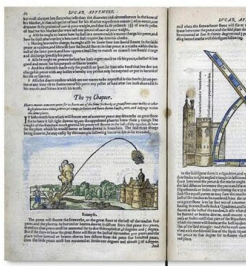

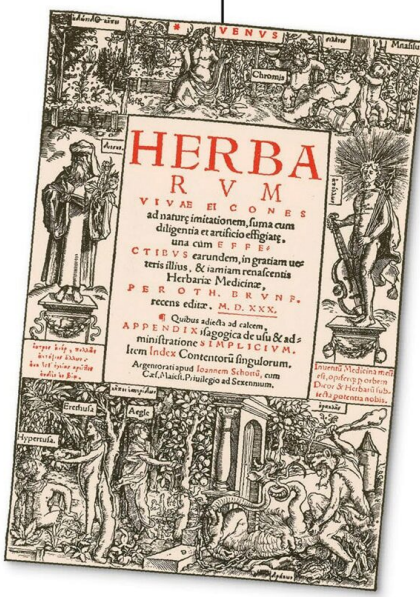
VENVS
HERBA
RVM
VIVAE ICONES
ad naturę imitationem, suma cum
diligentia et artificio effigiatę,
una cum EFFE-
CTIBVS earundem, in gratiam ue-
teris illius, & iamiam renascentis
Herbariæ Medicinæ,
PER OTH. BRVNF.
recens editæ. M. D. XXX.
Quibus adiecta ad calcem,
APPENDIX ἀγωγοῖα de usu & ad-
ministratione SIMPLICIVM.
Item Index Contentorū singulorum.
Argentorati apud Ioannem Schott, cum
Cæs. Maiest. Priuilegio ad Sexennium.

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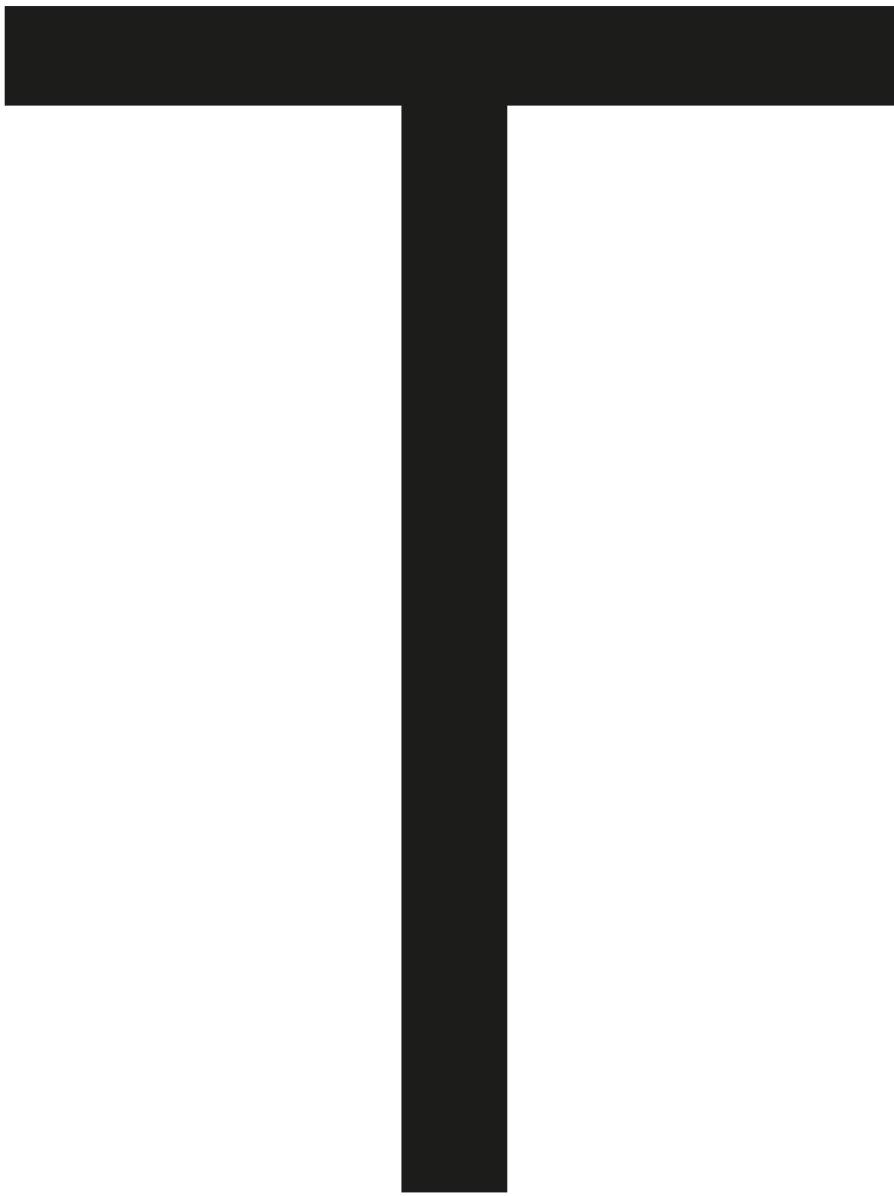

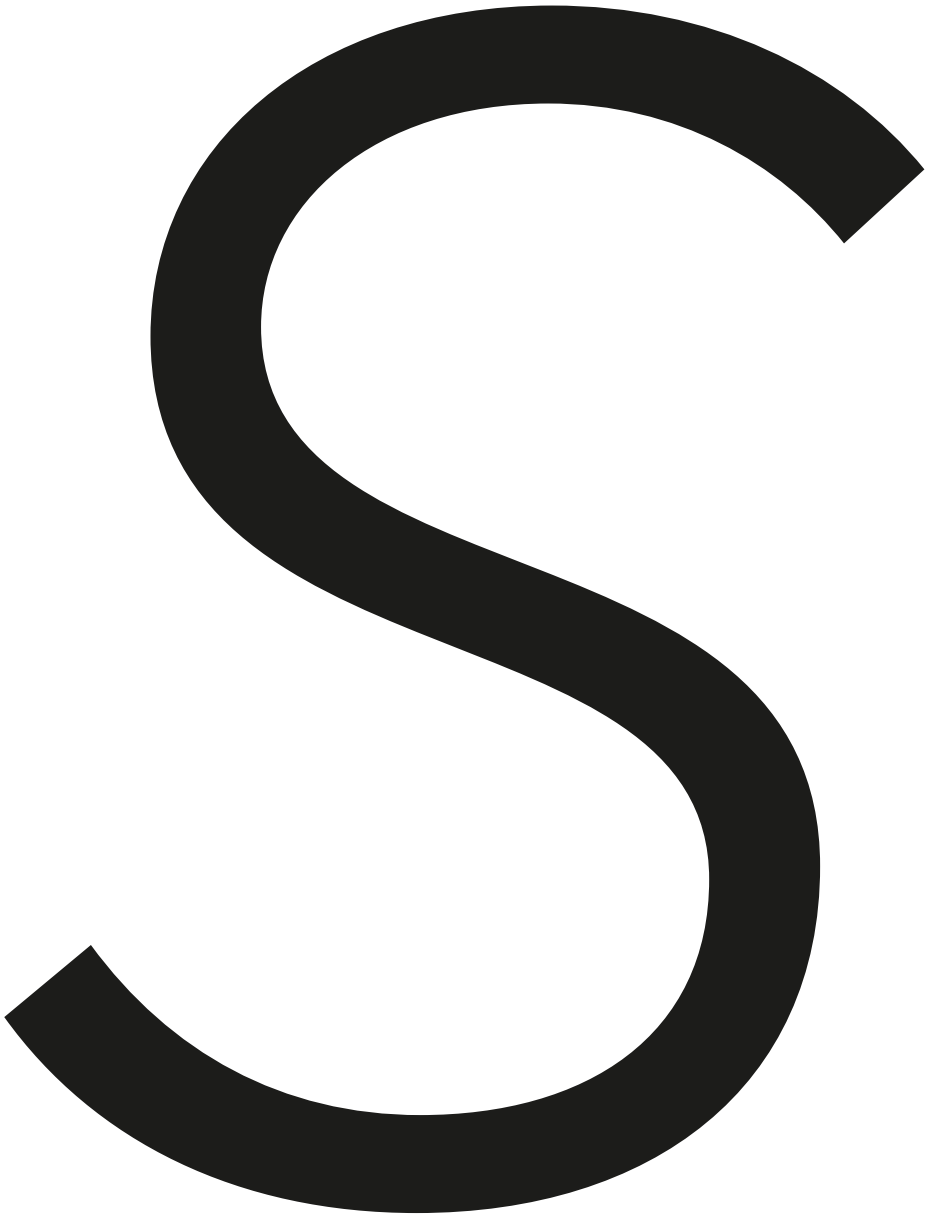

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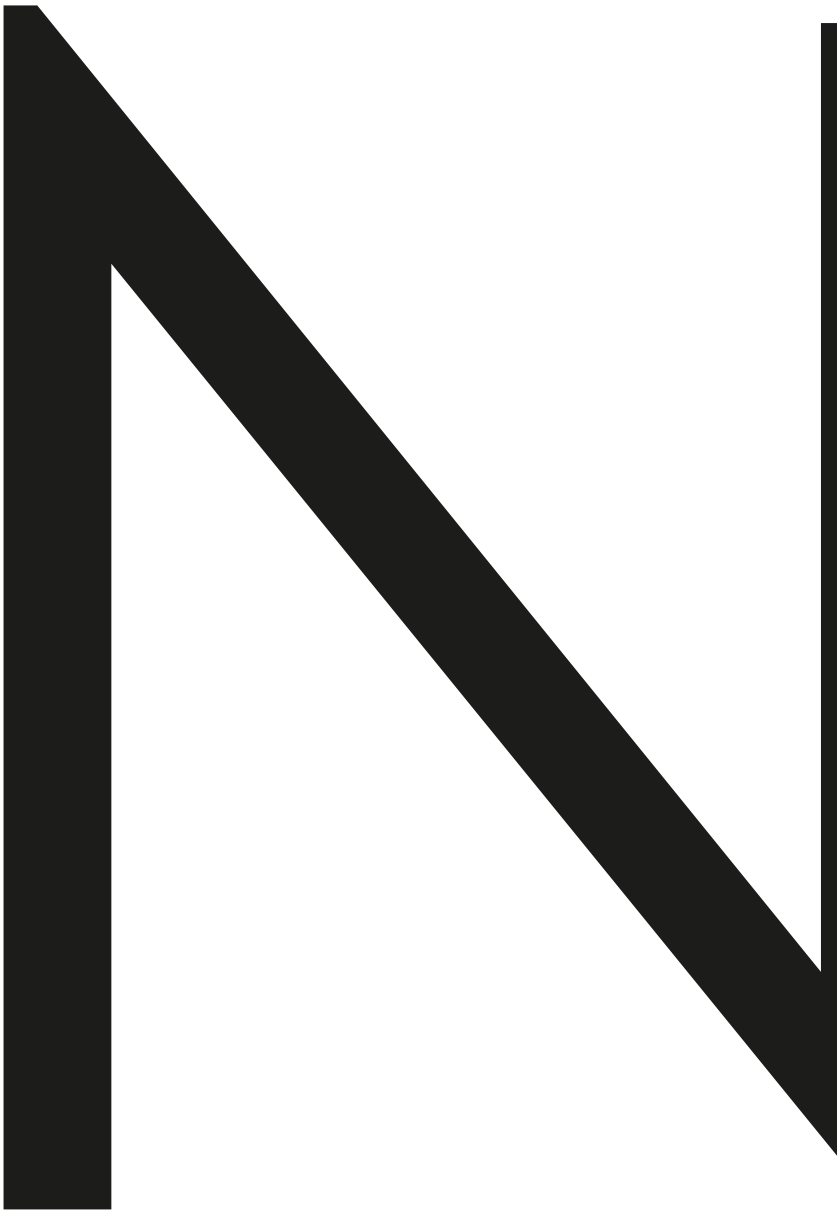

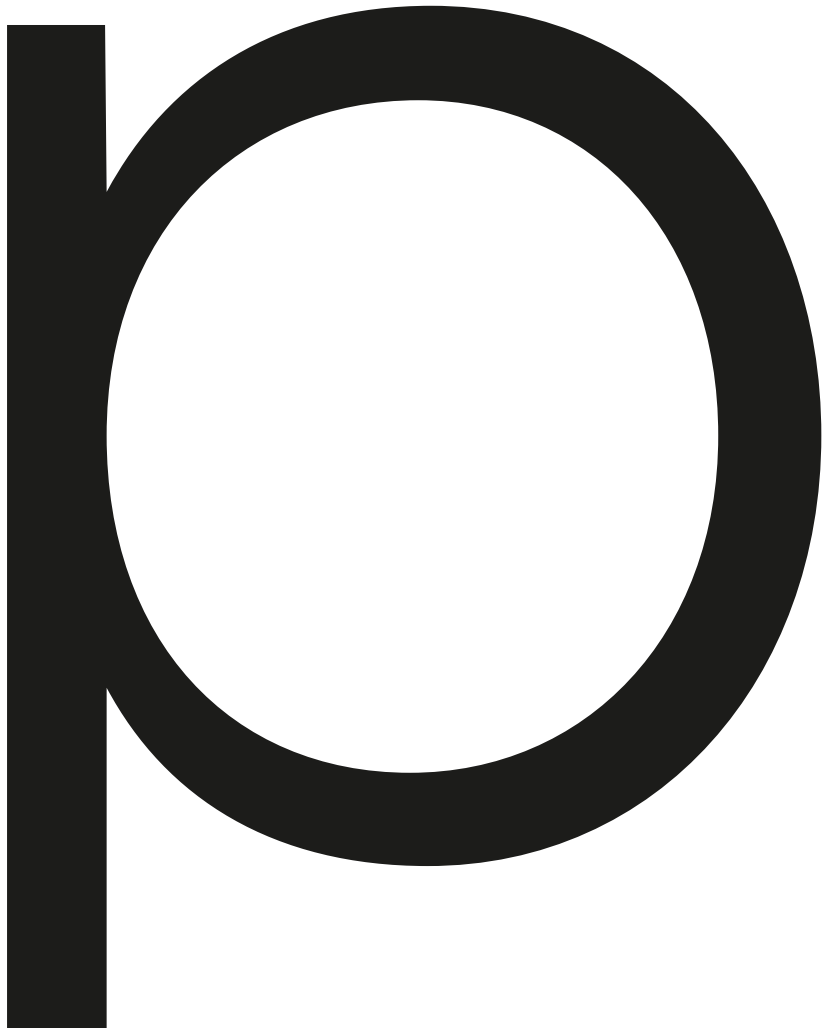

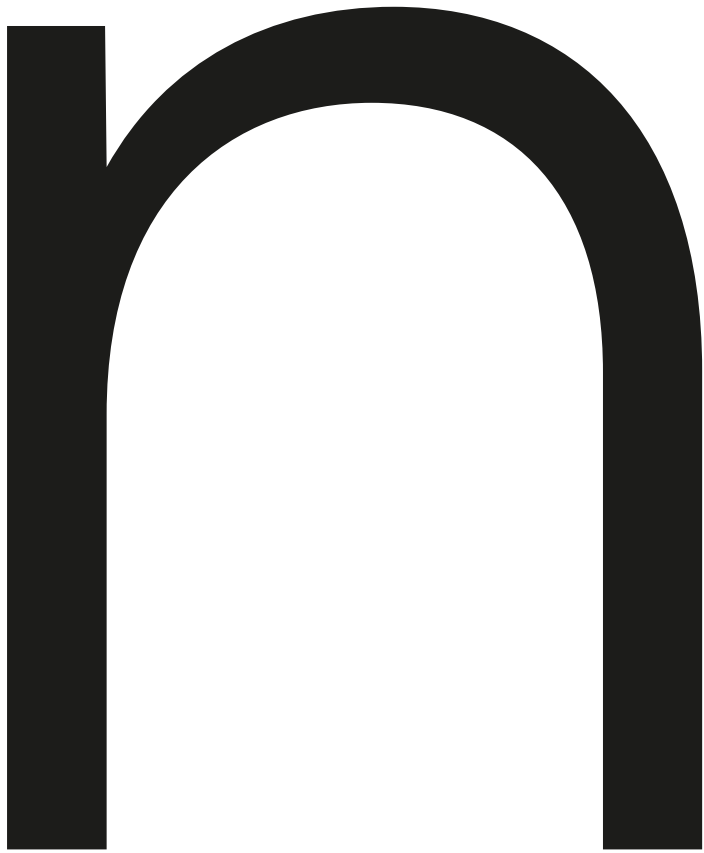

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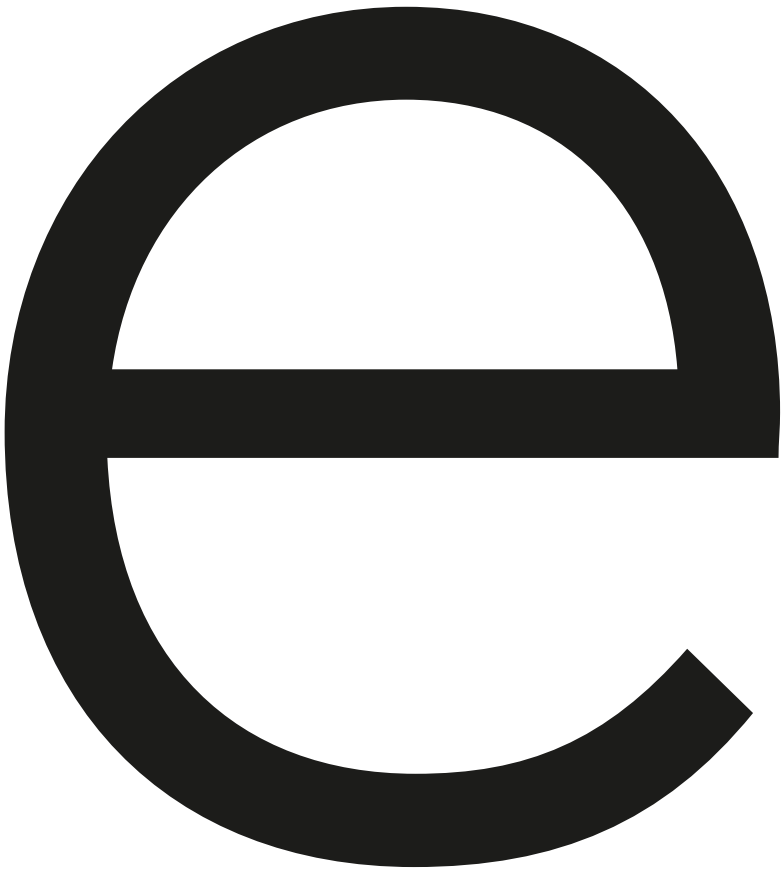

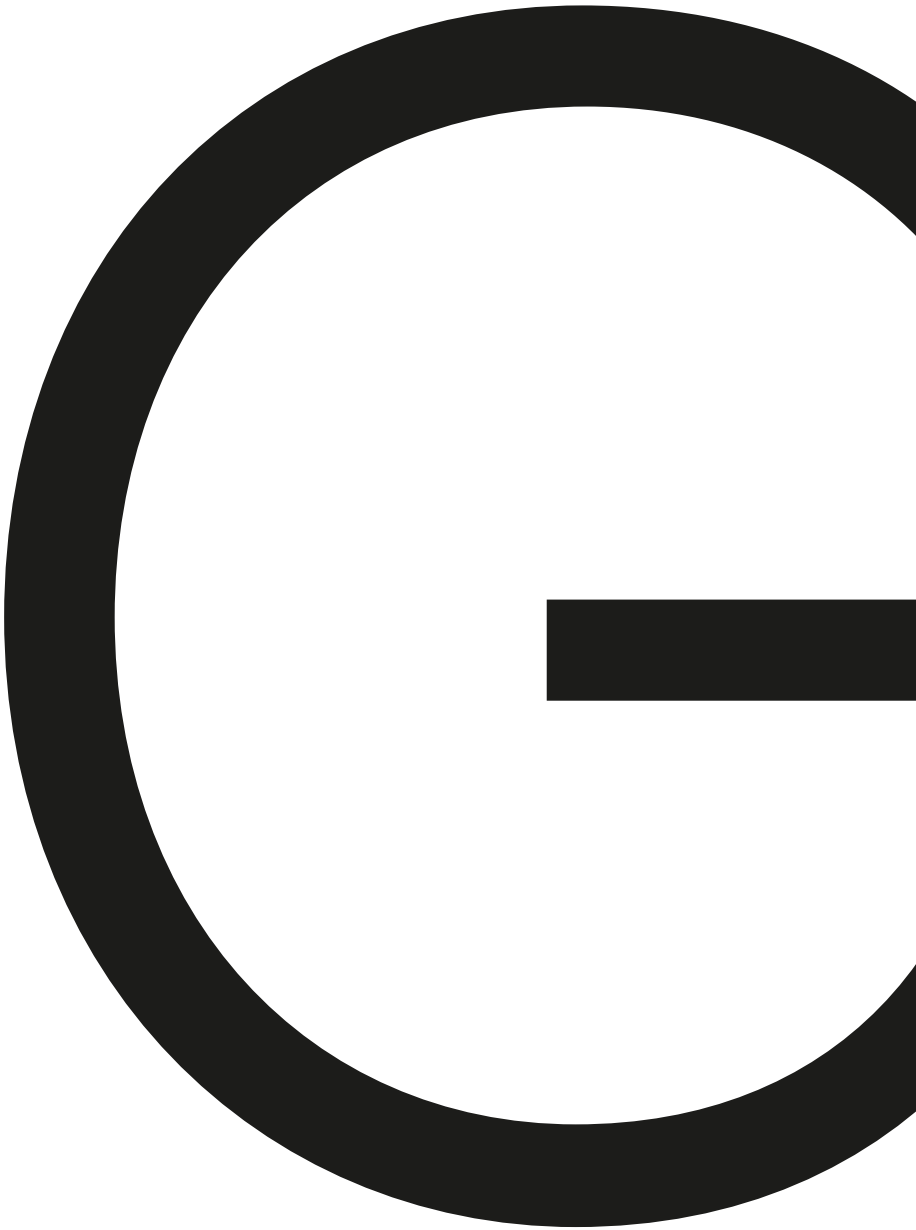

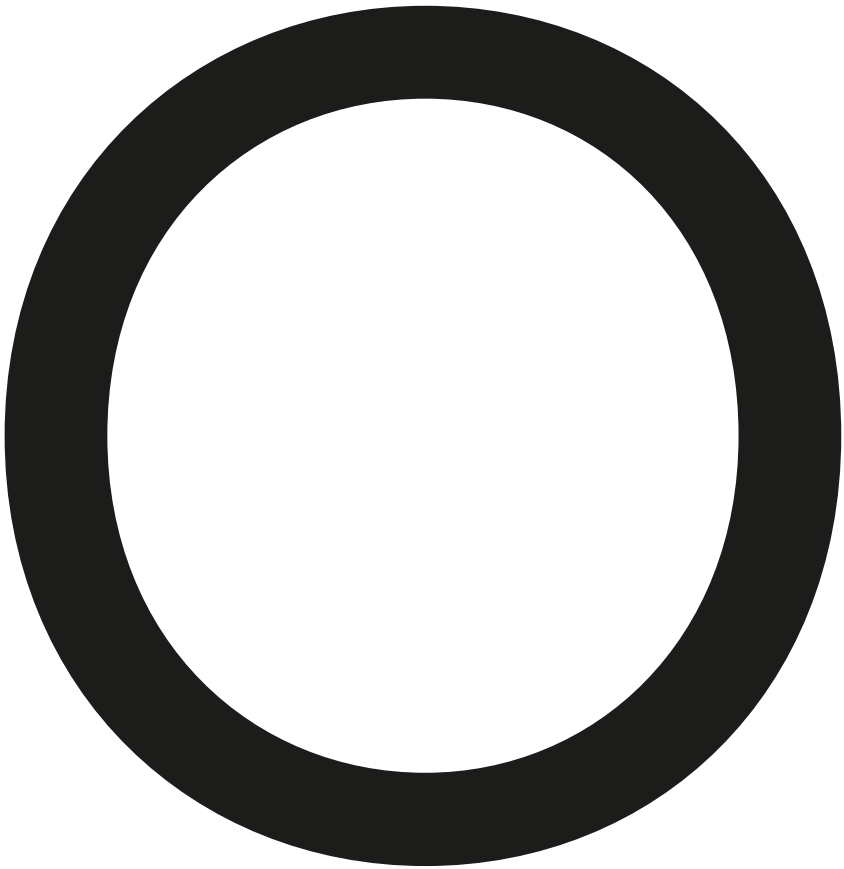

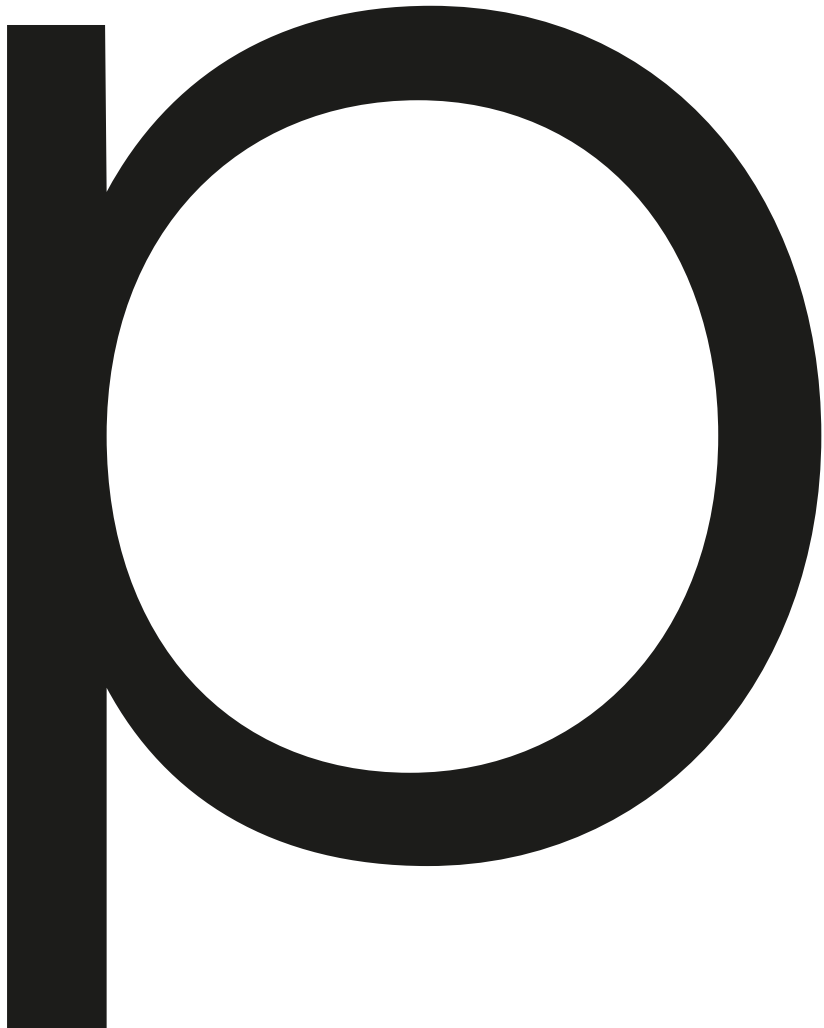

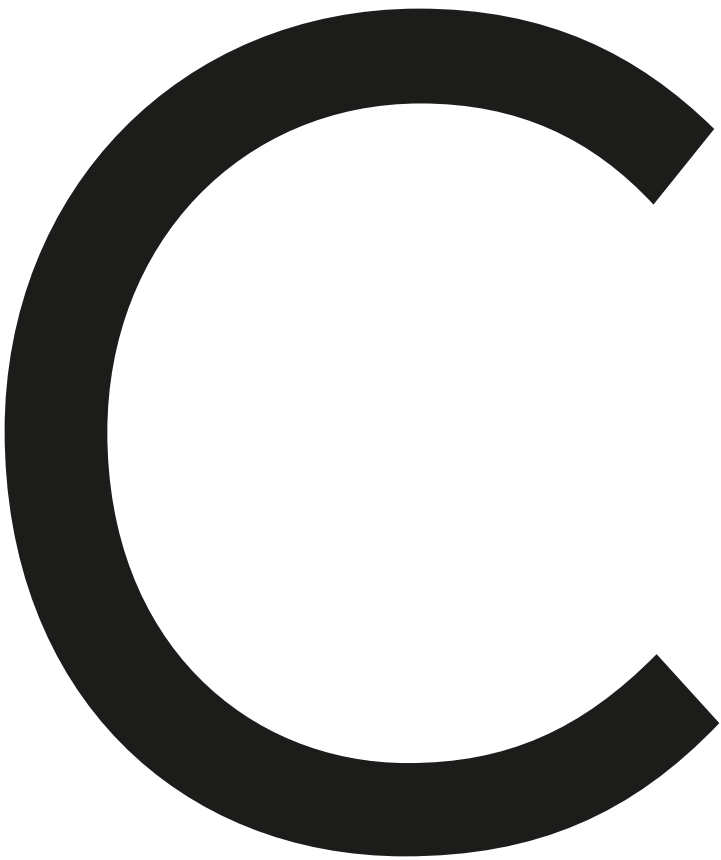

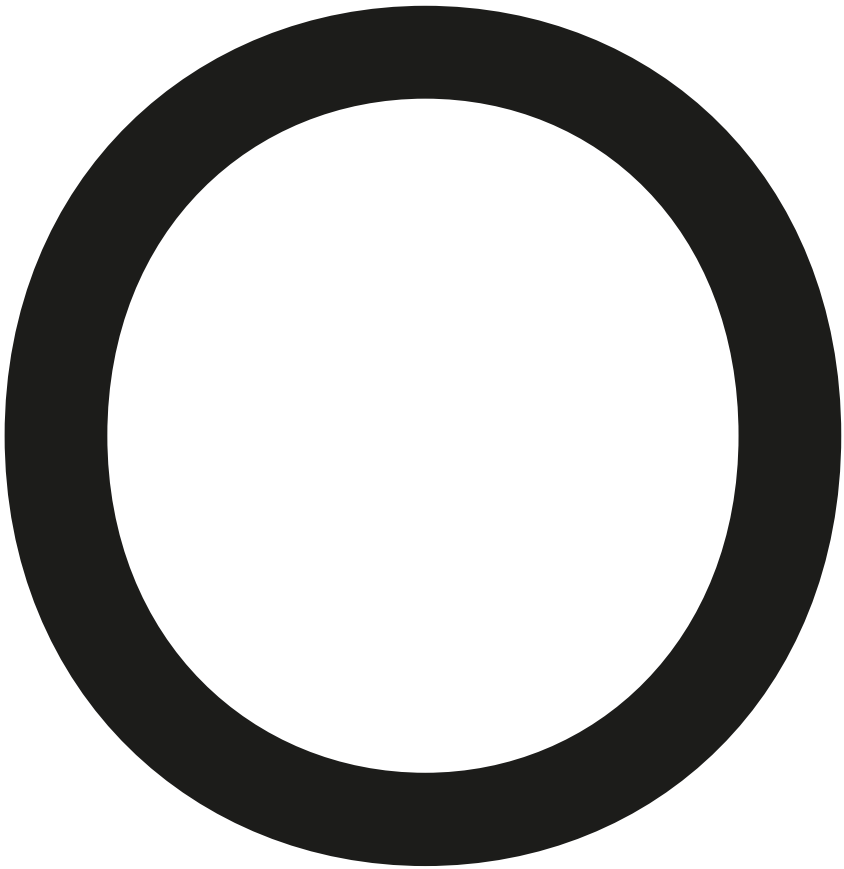

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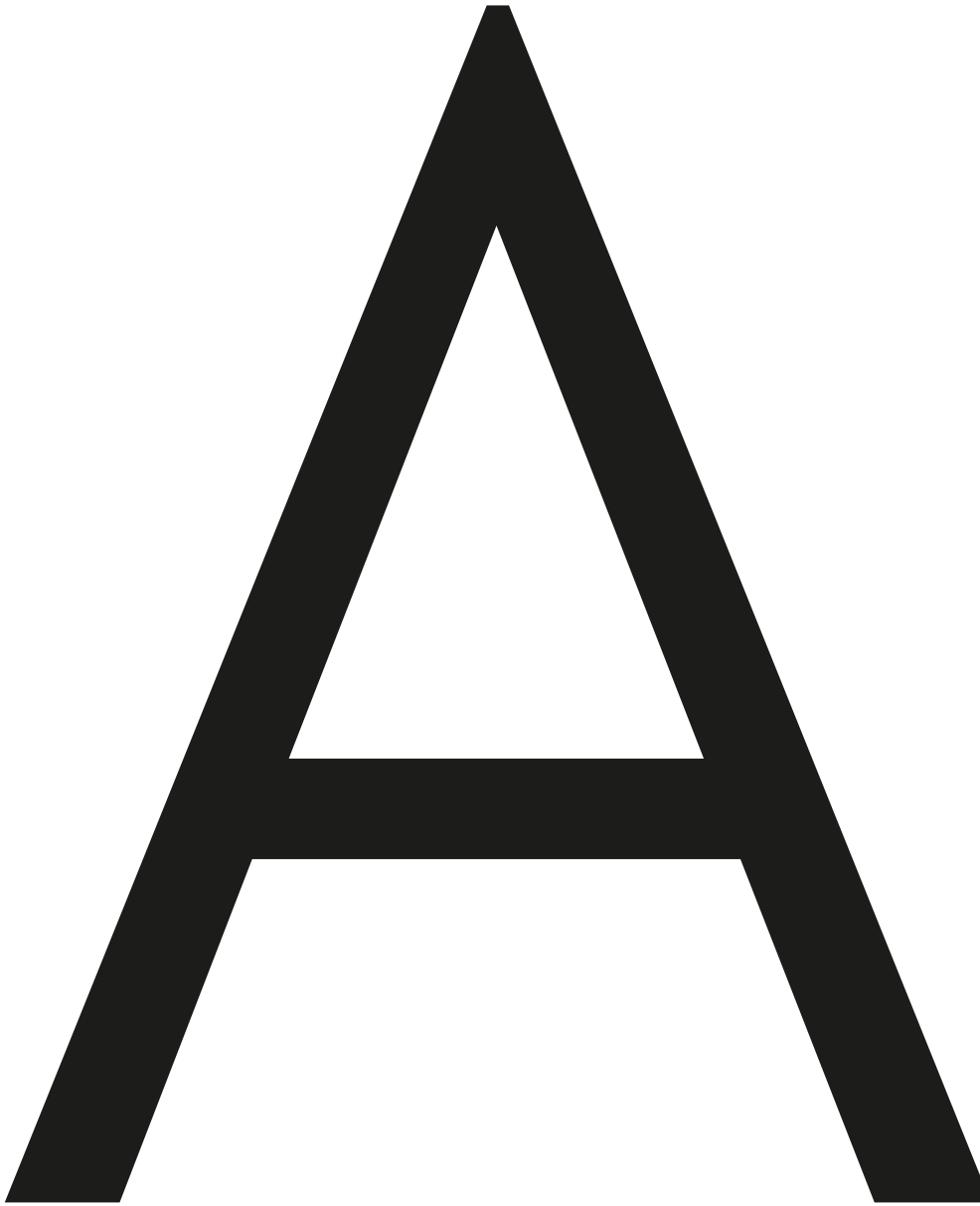

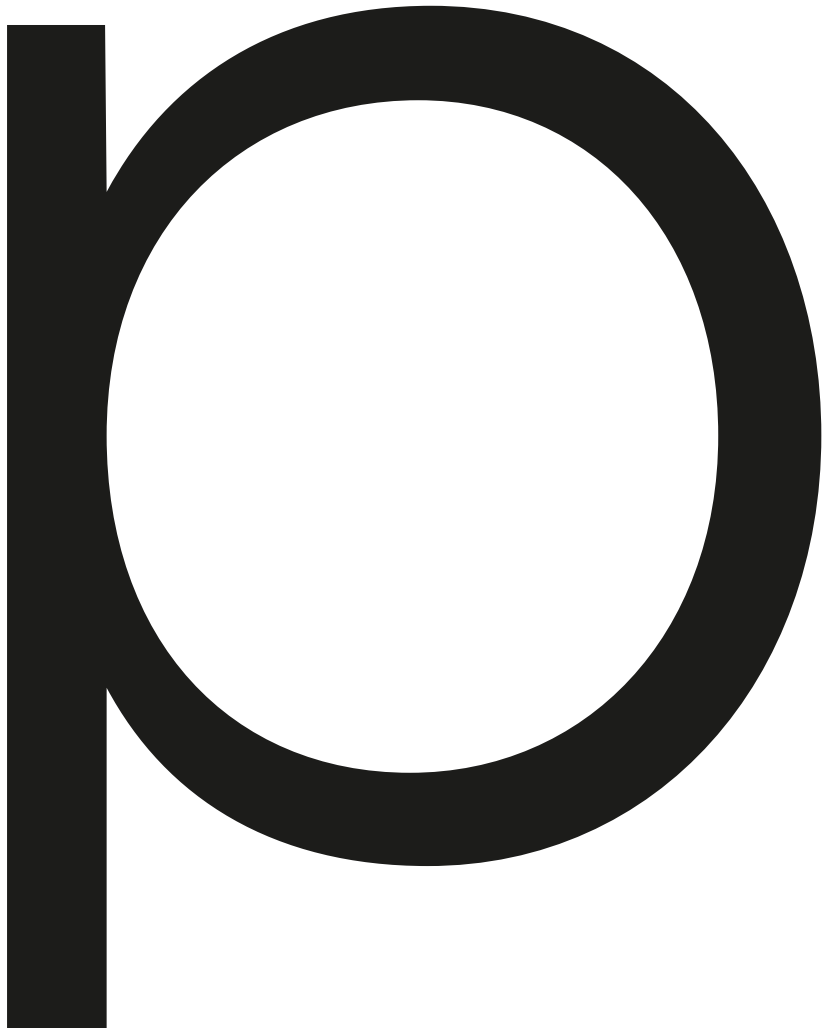

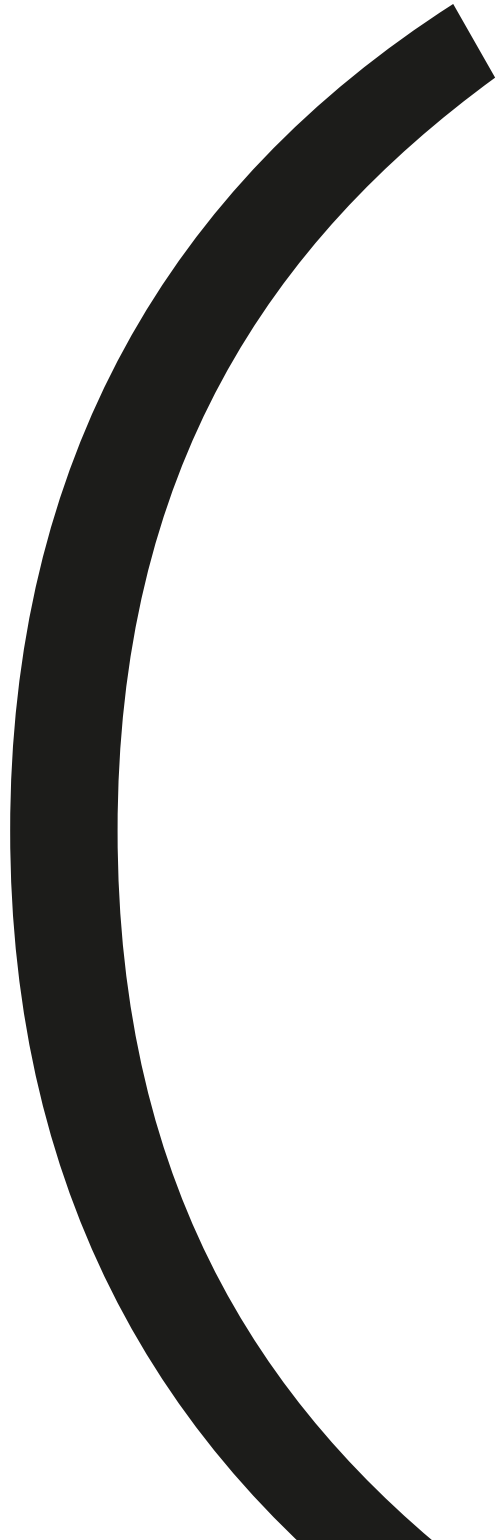

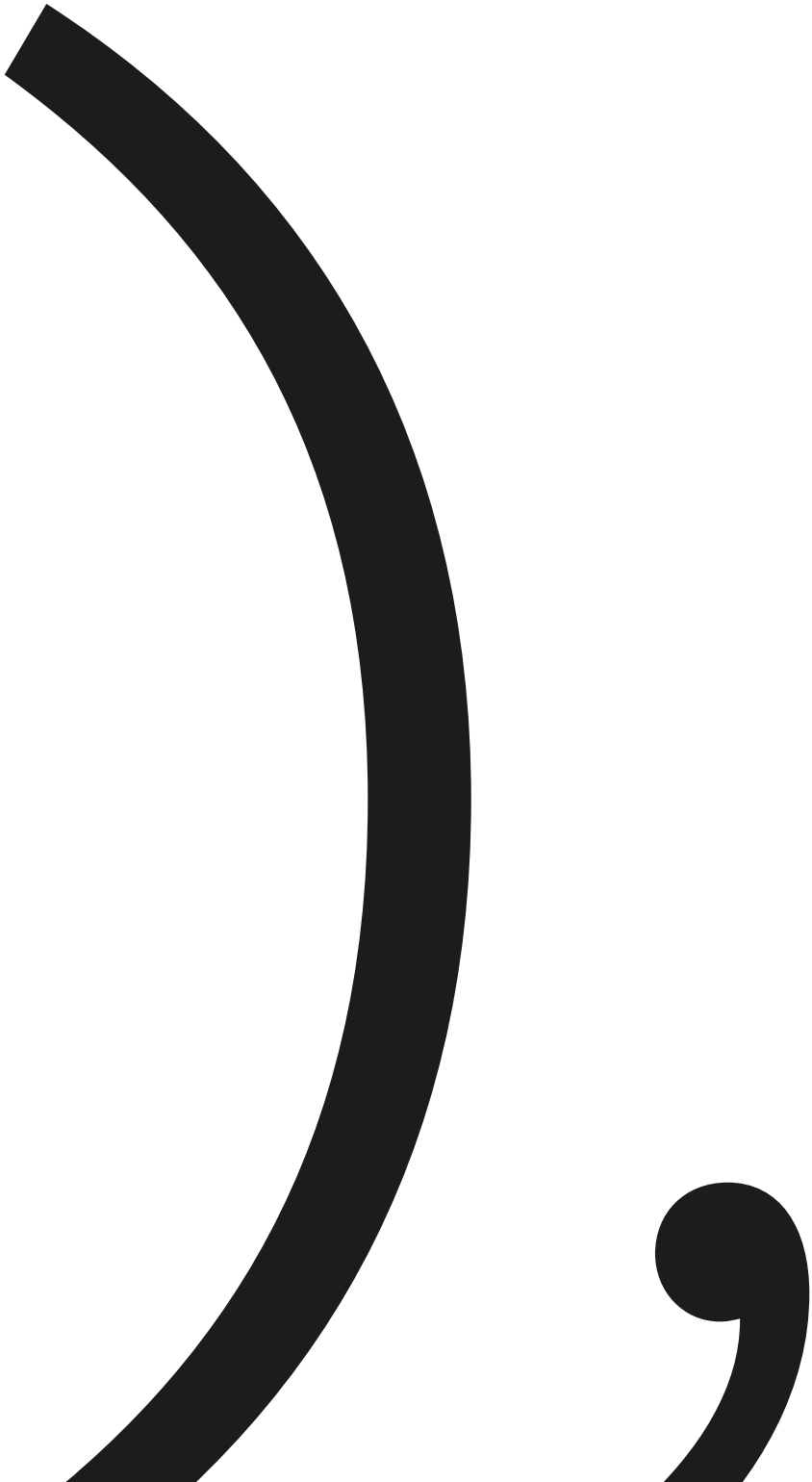

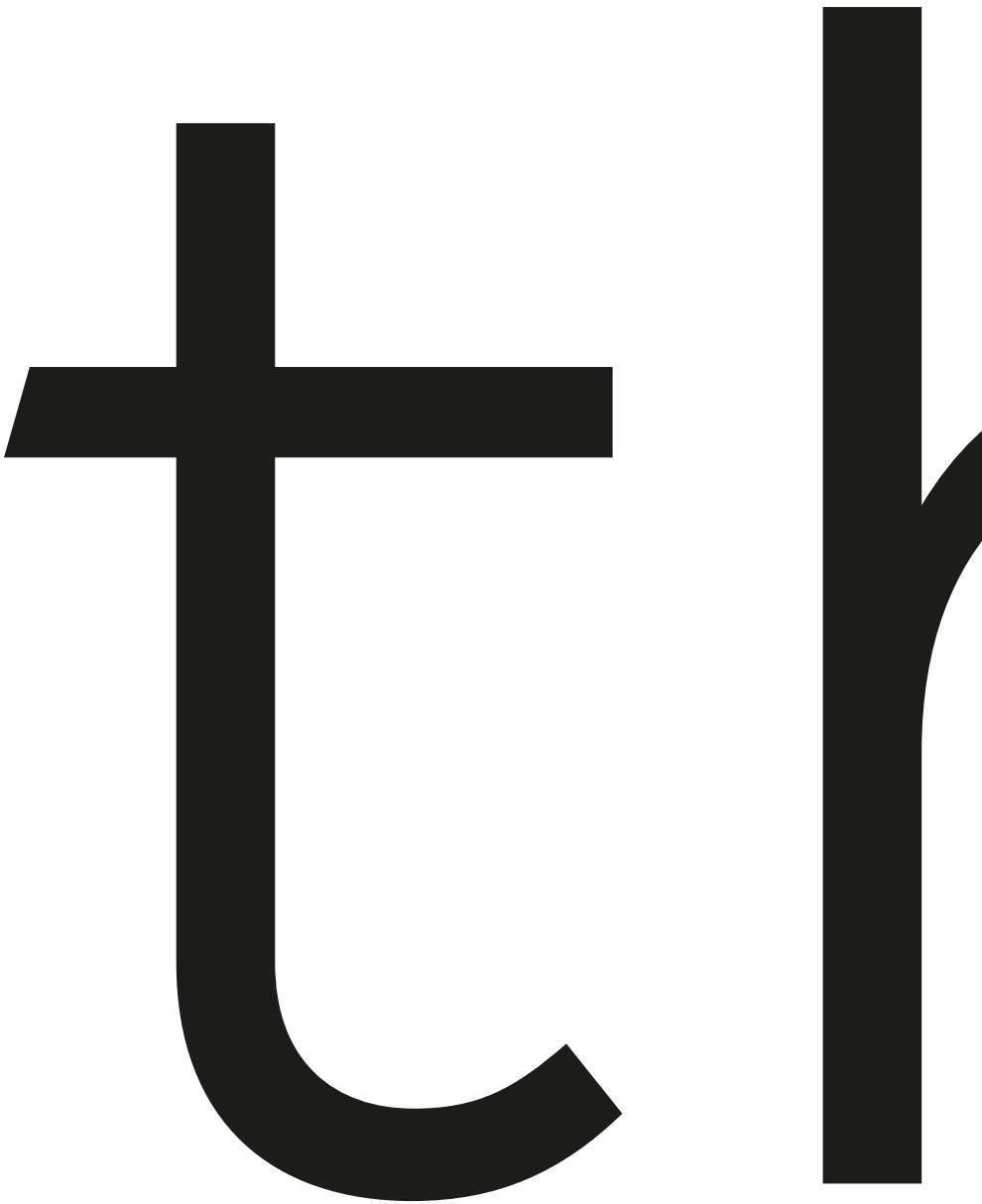

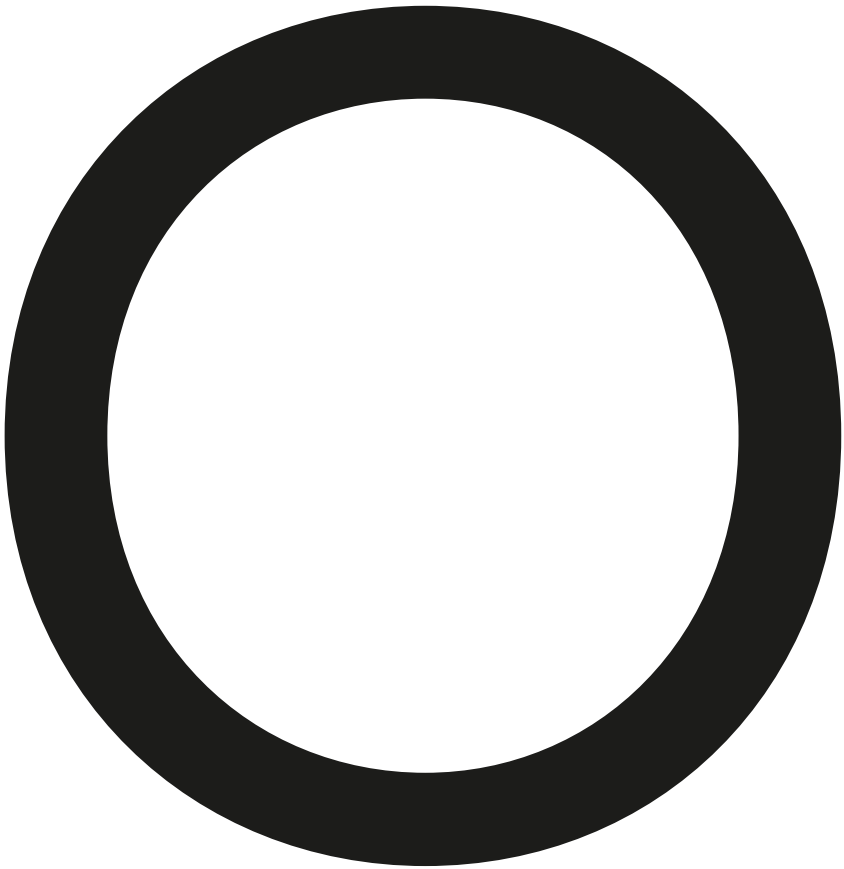

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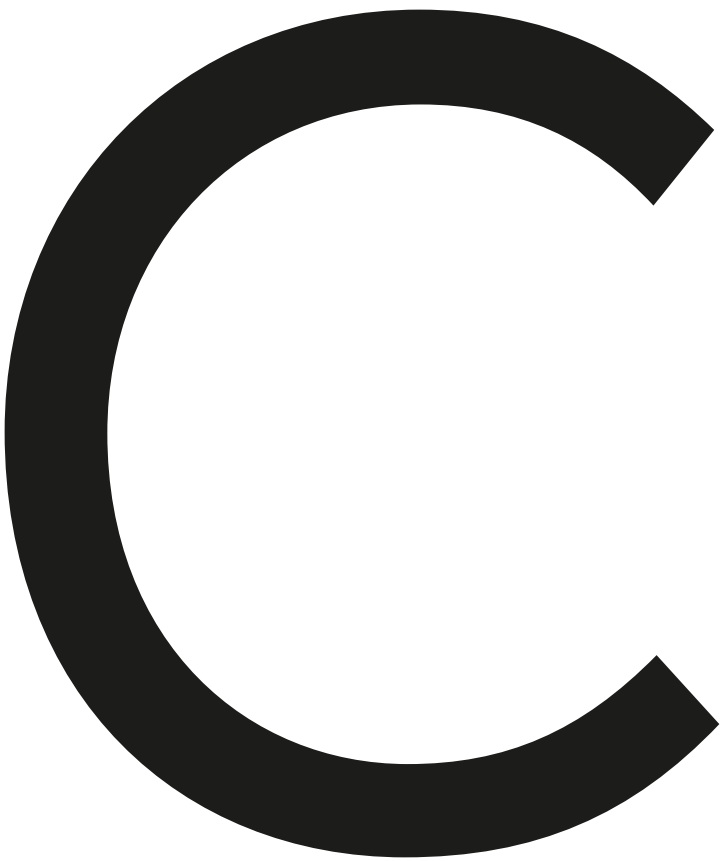

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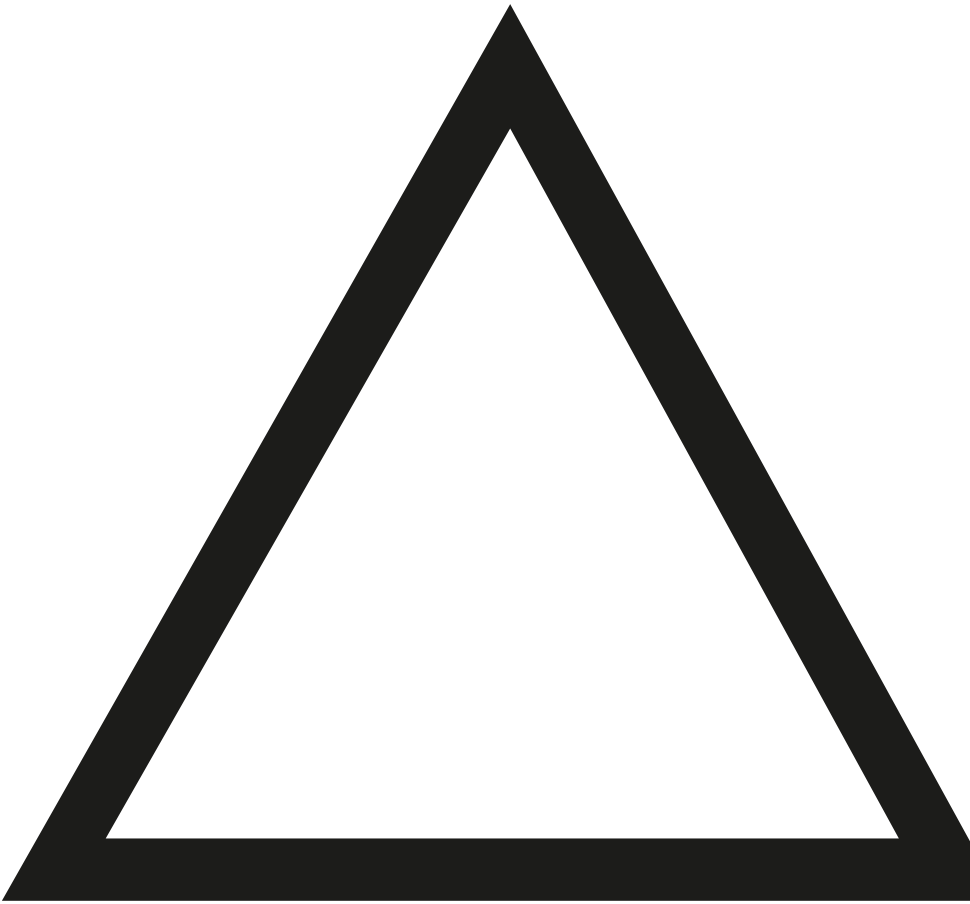

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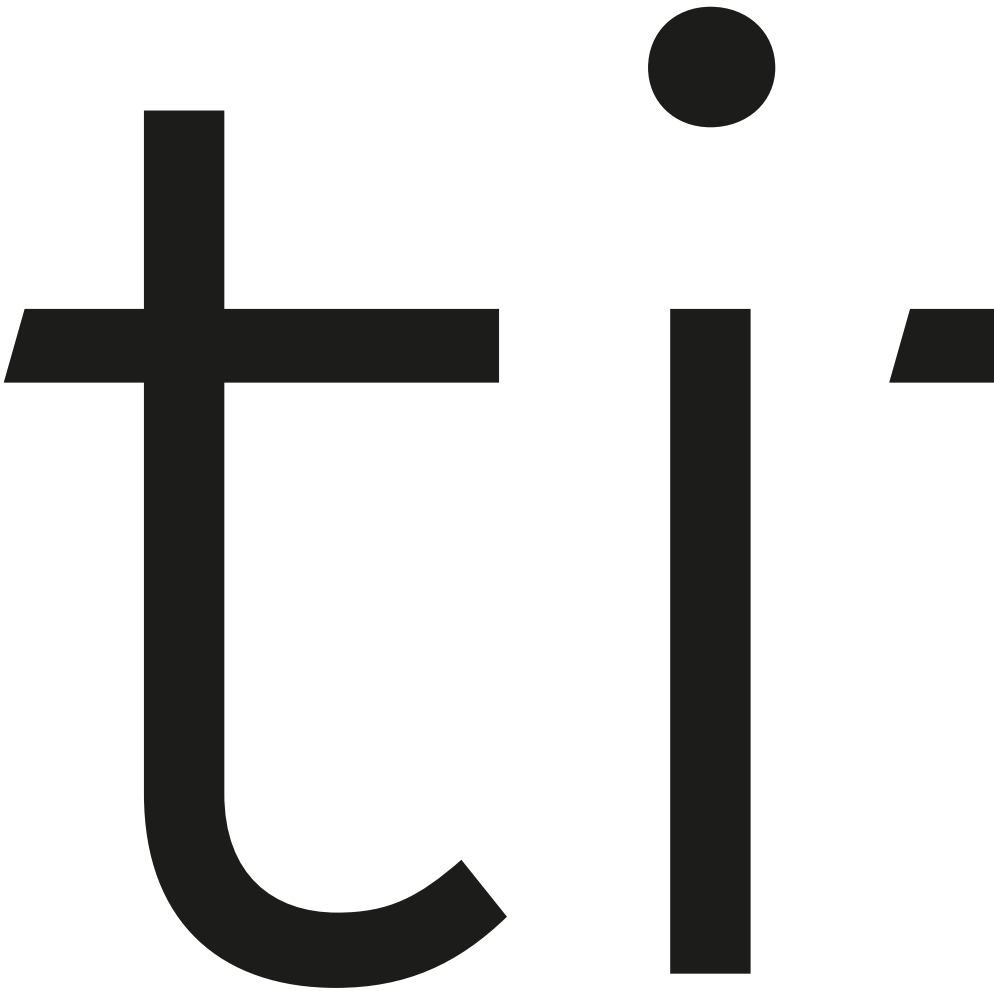

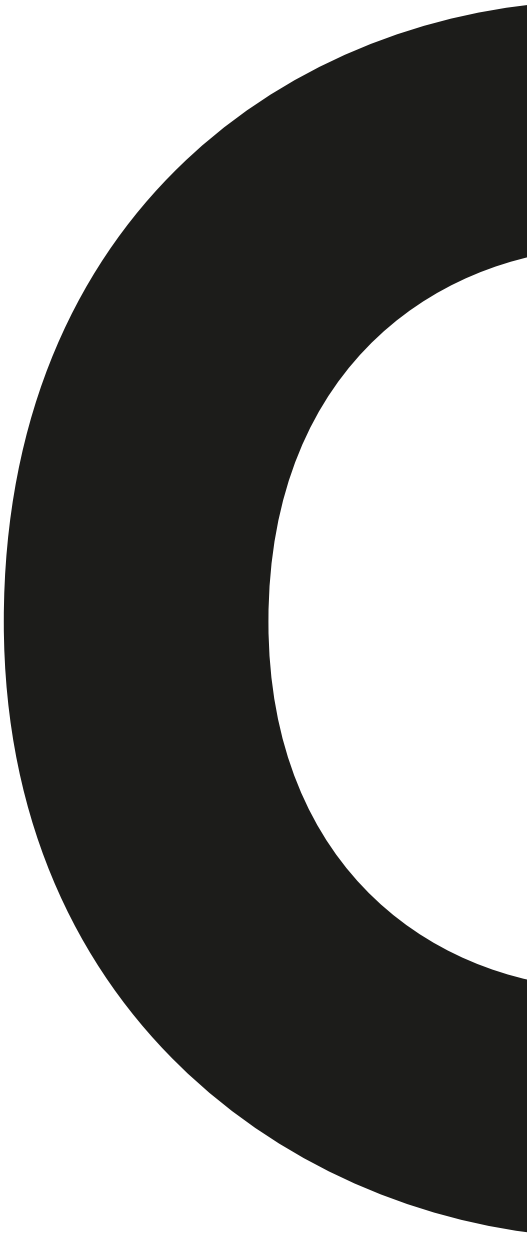

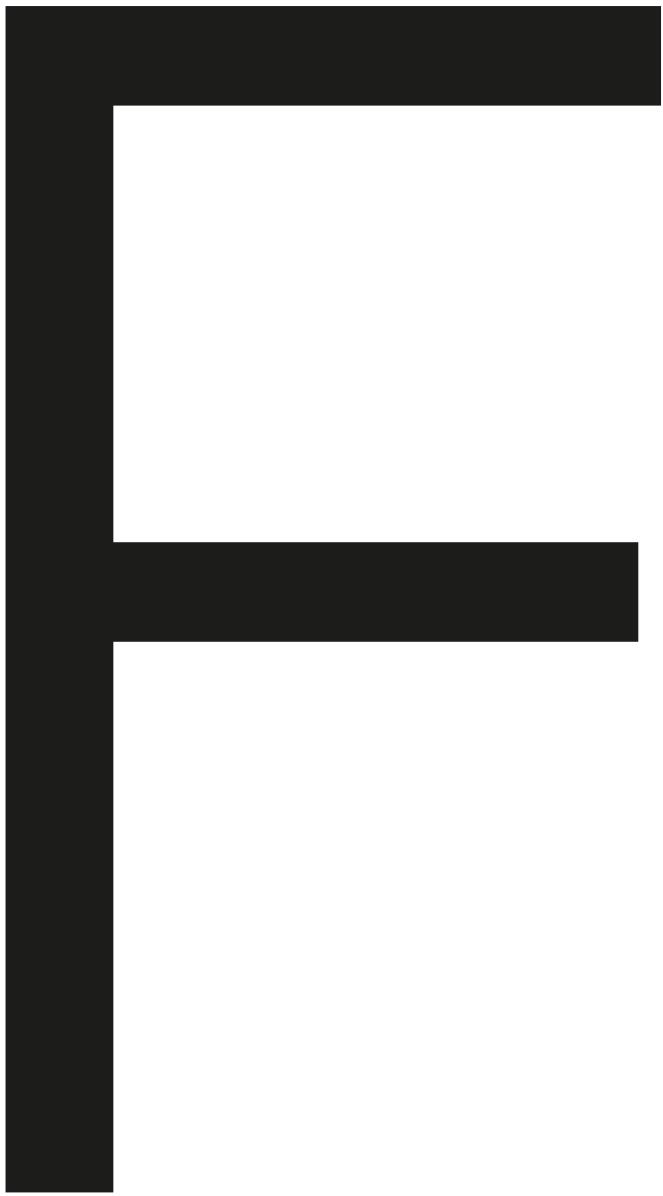

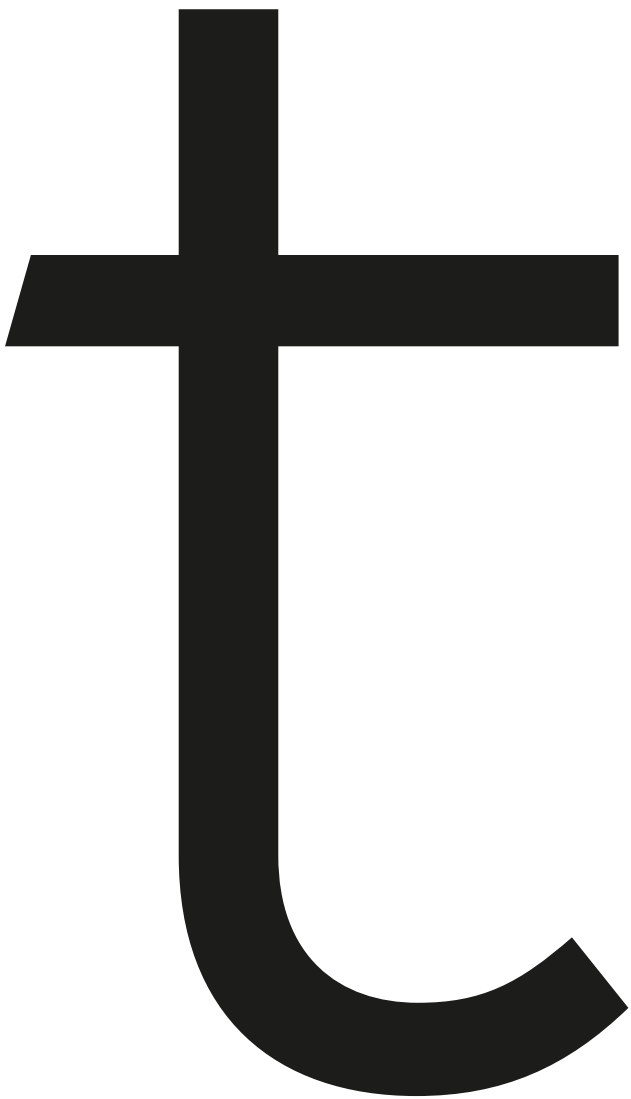

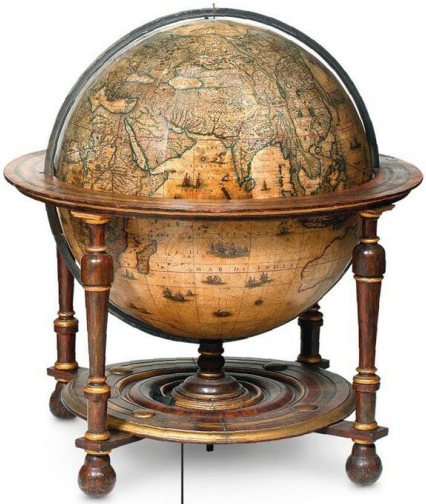

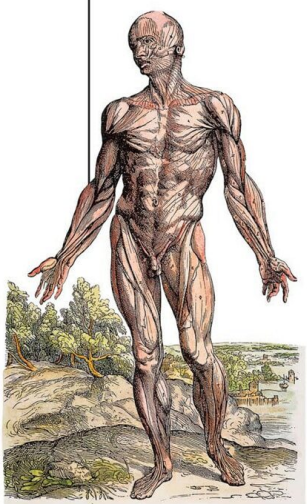

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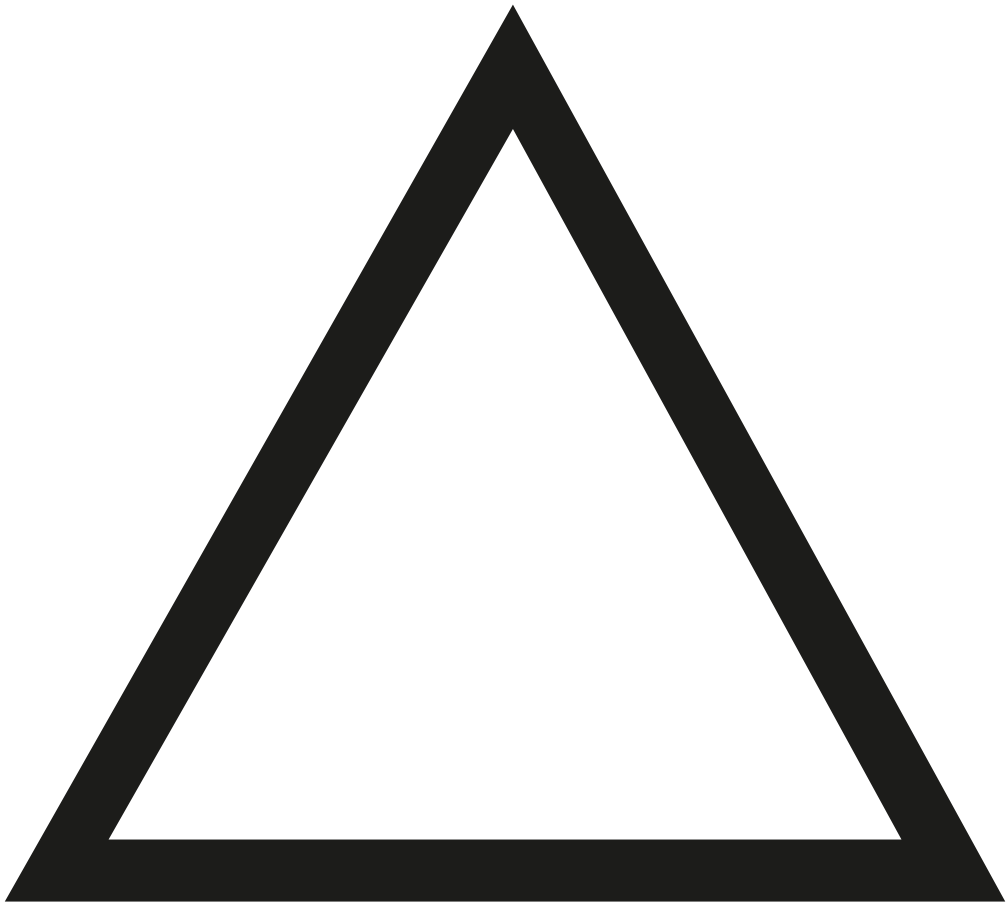

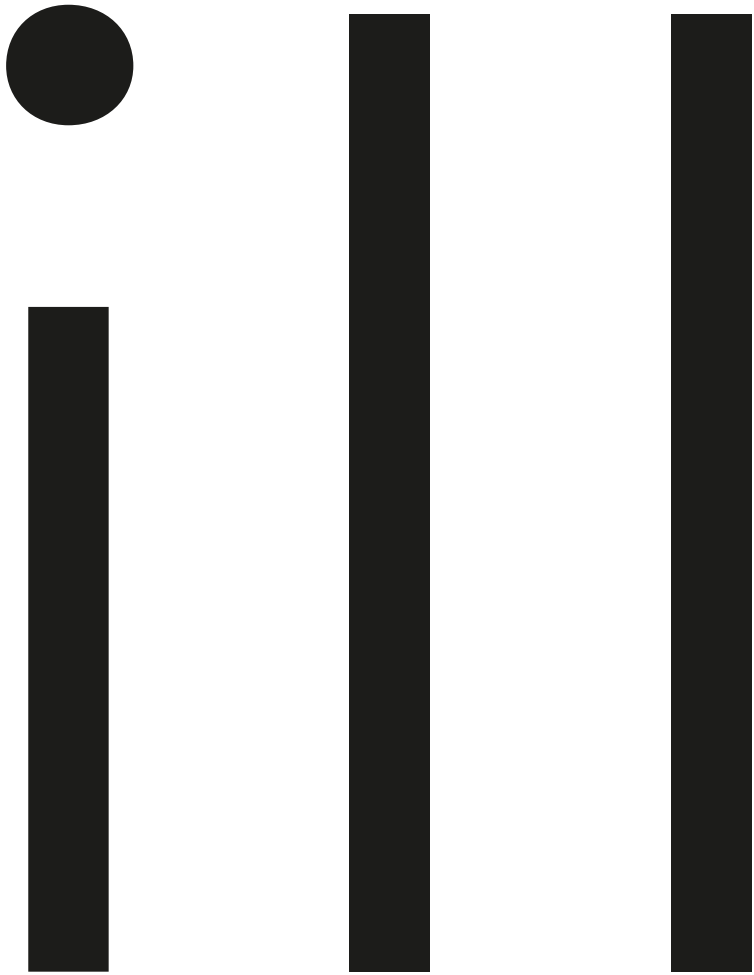

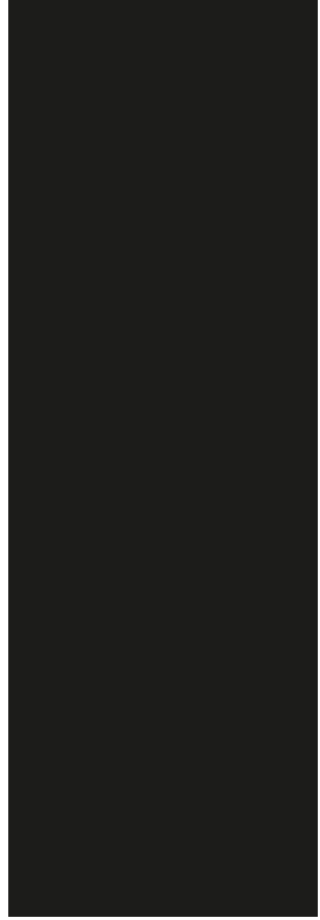

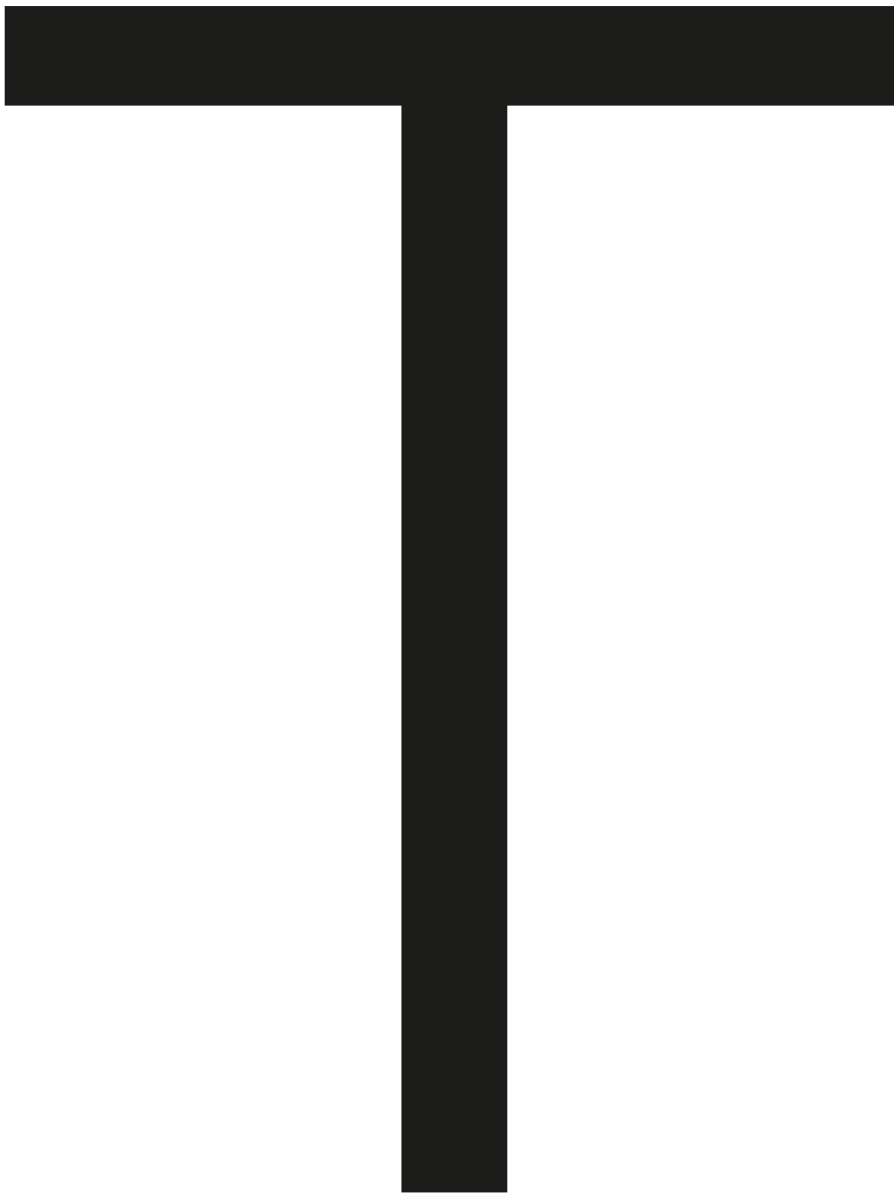

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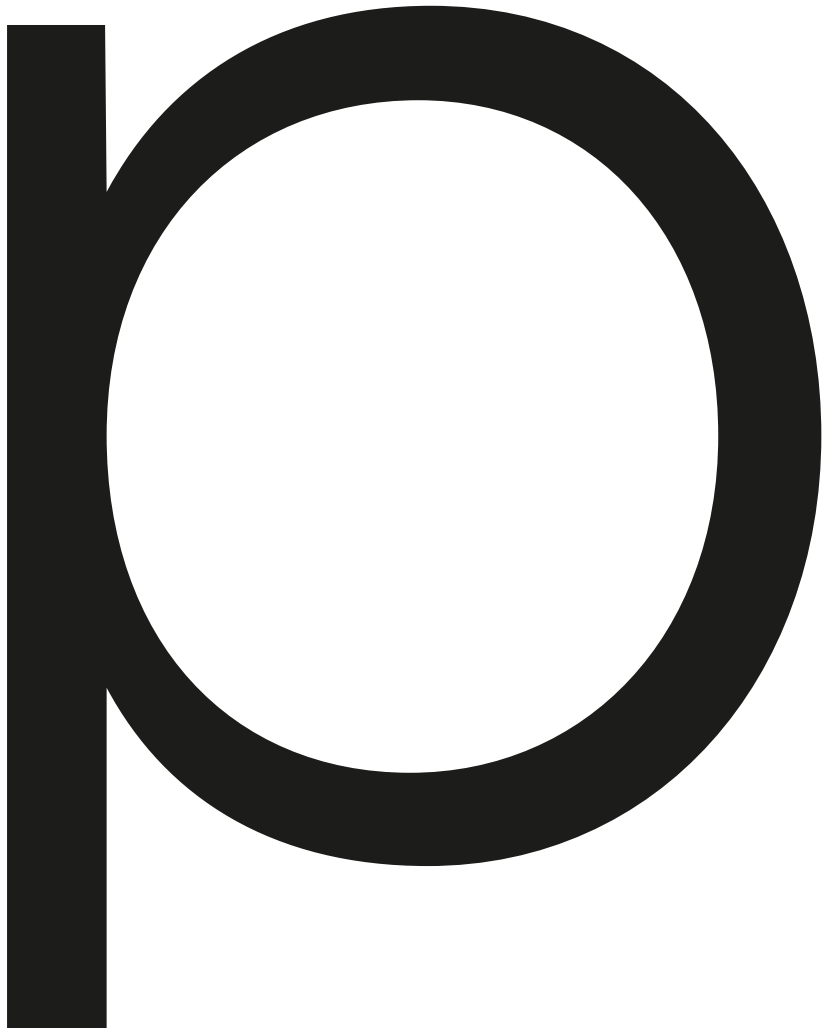

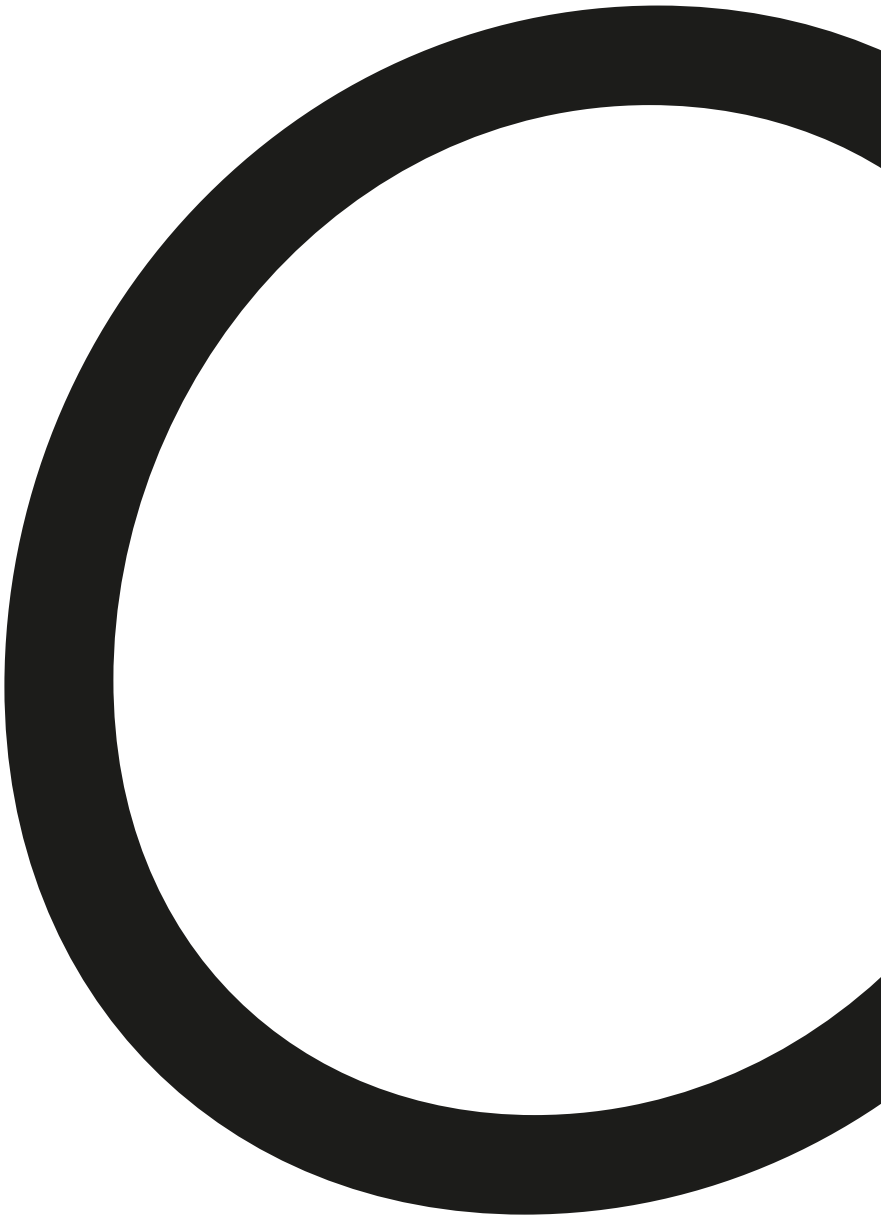

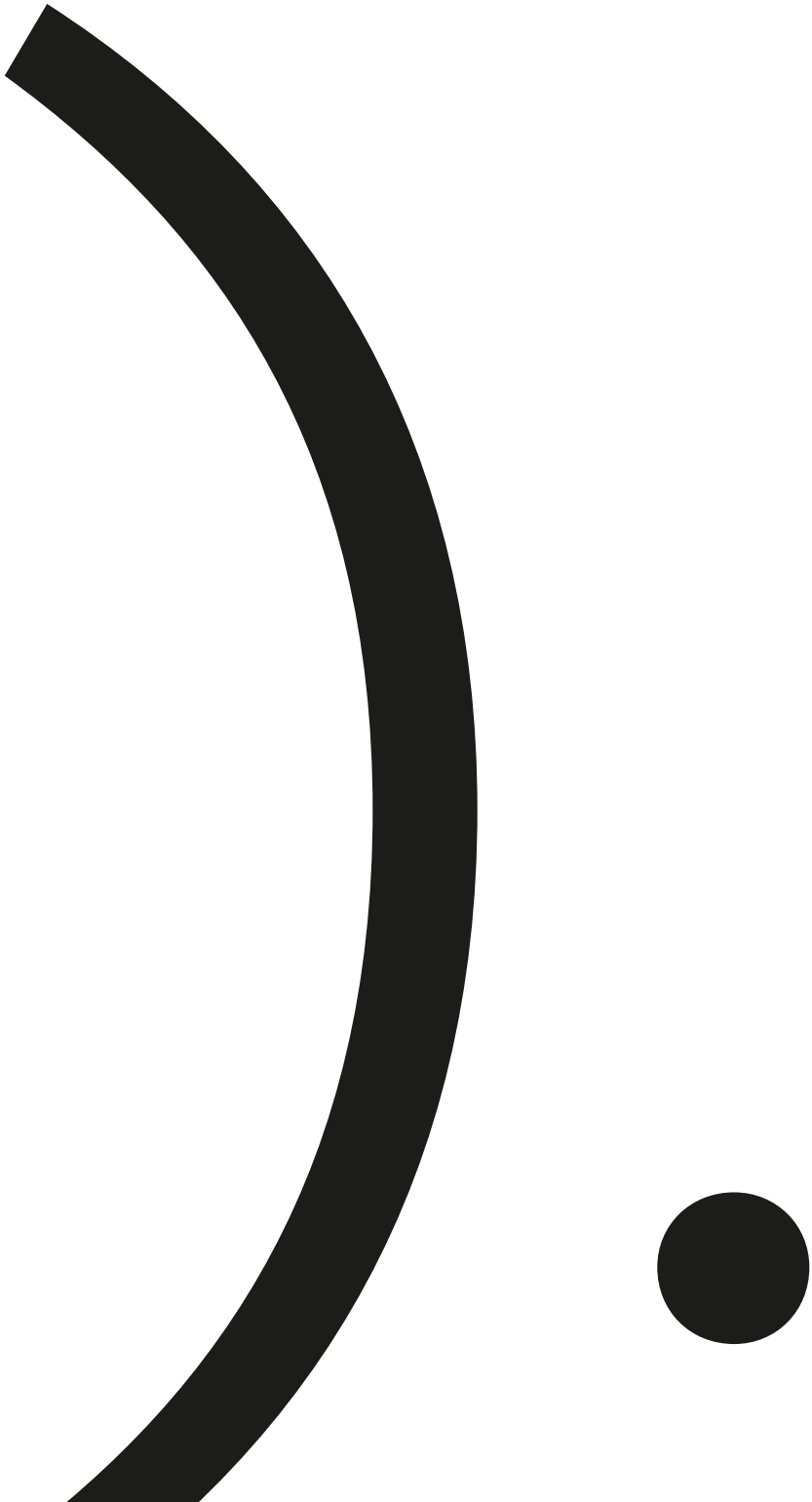

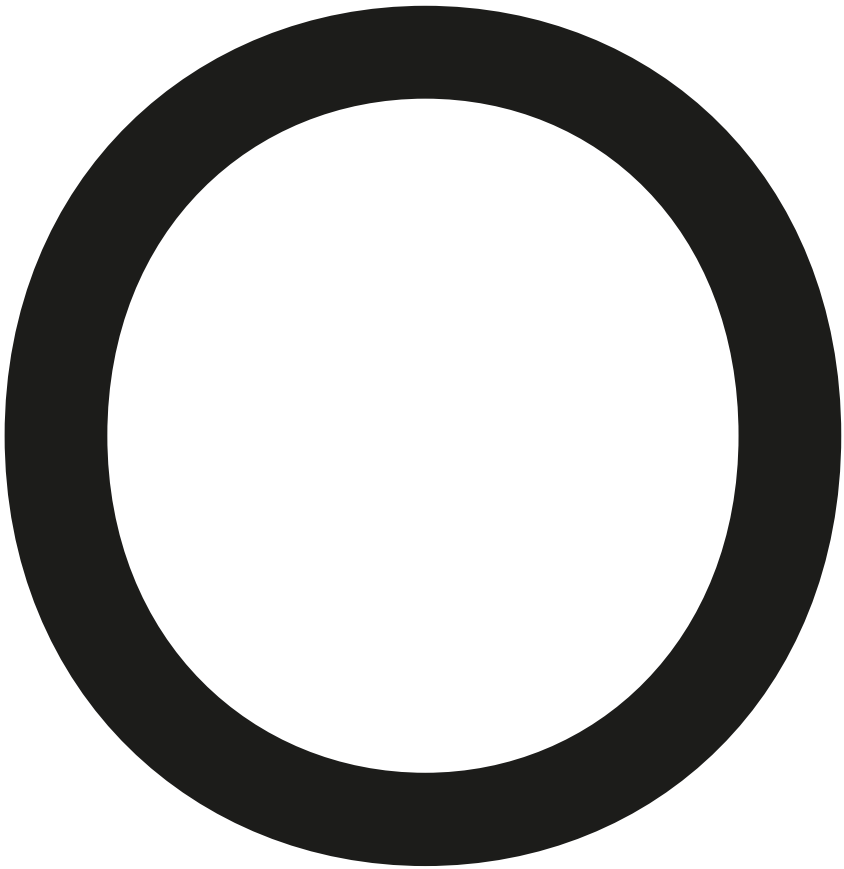

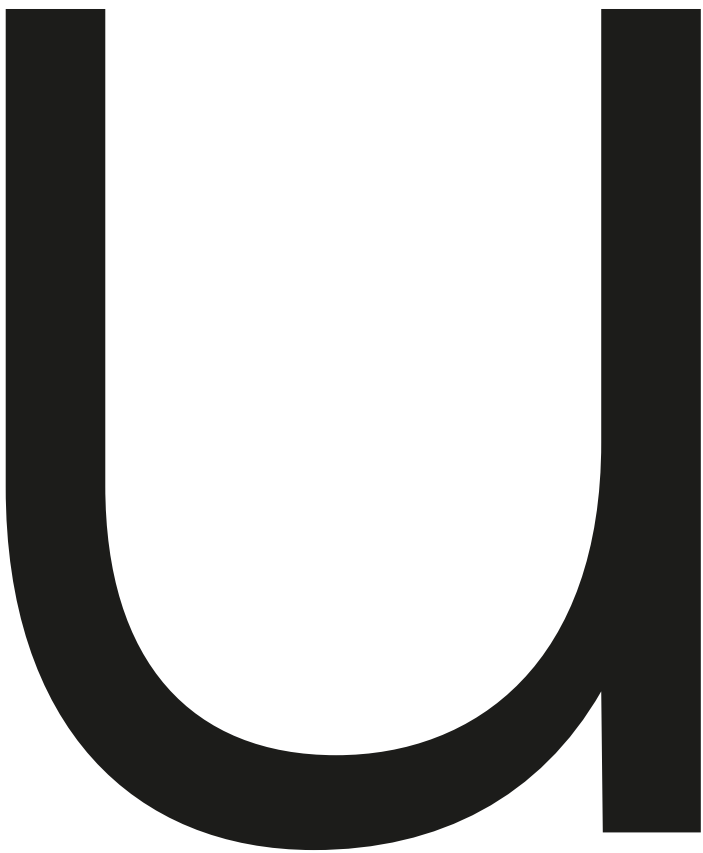

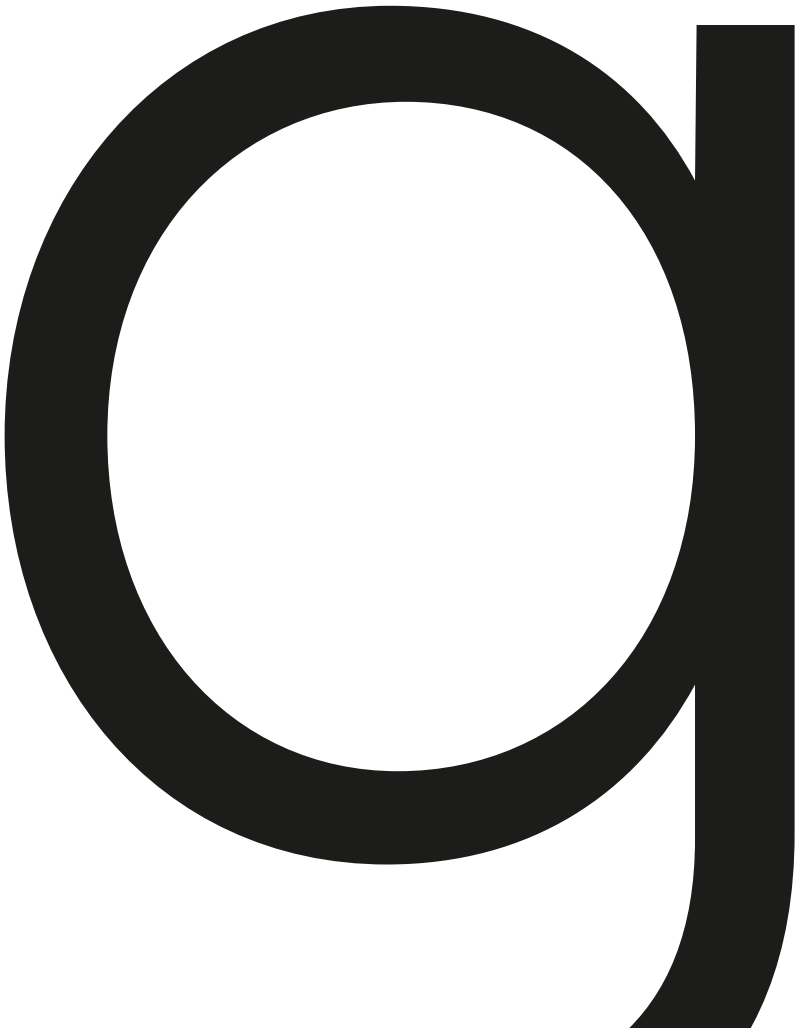

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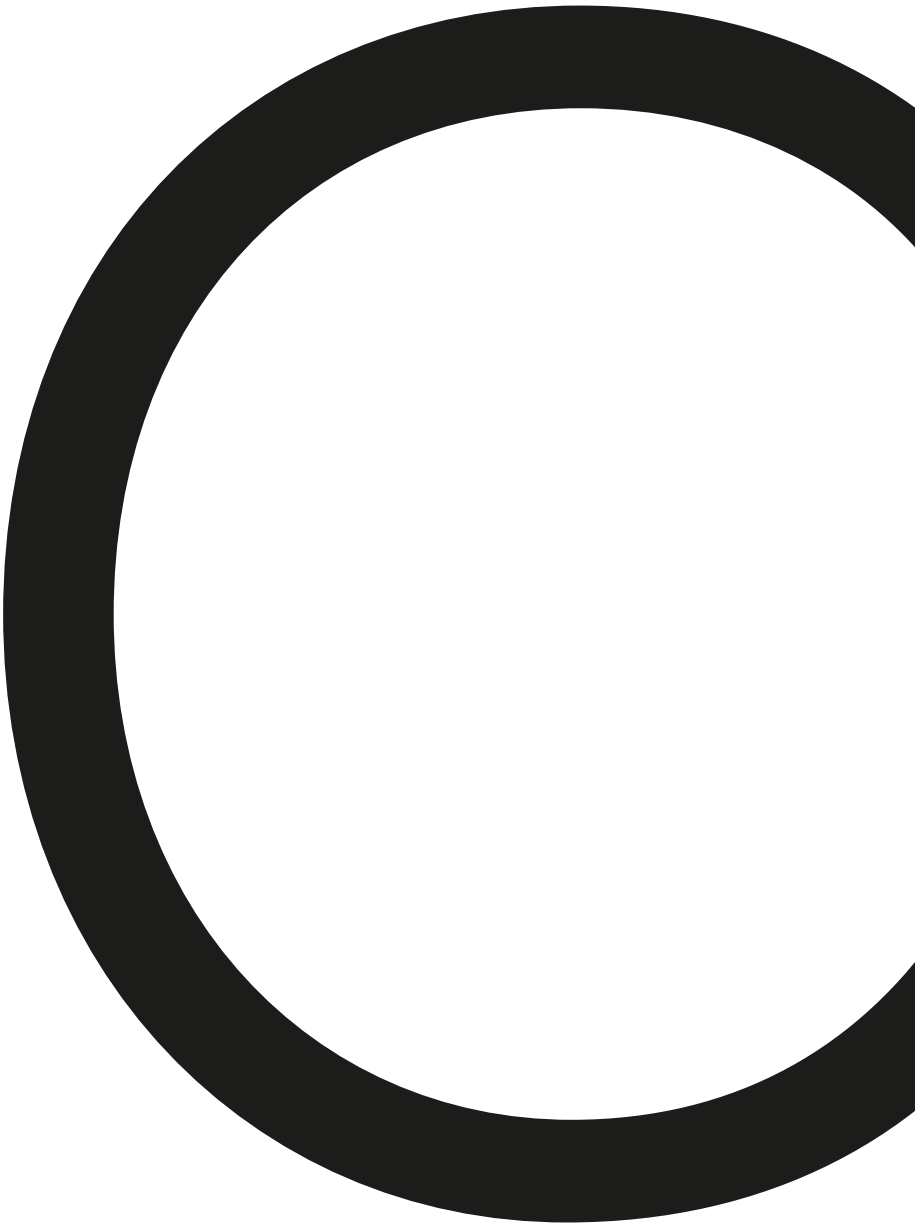

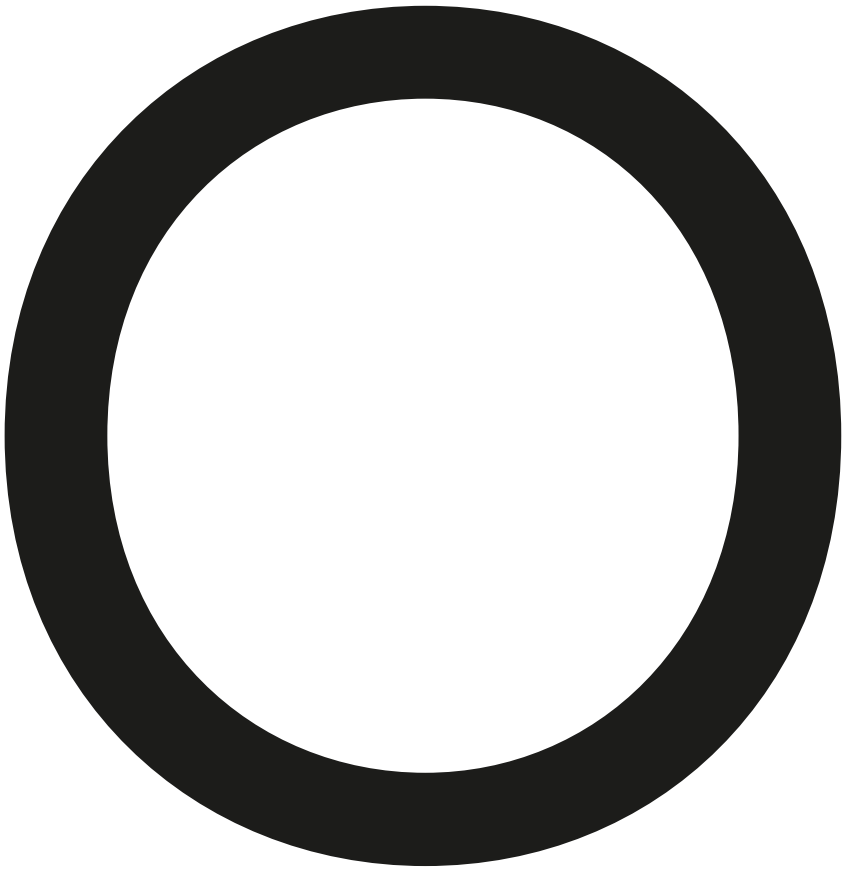

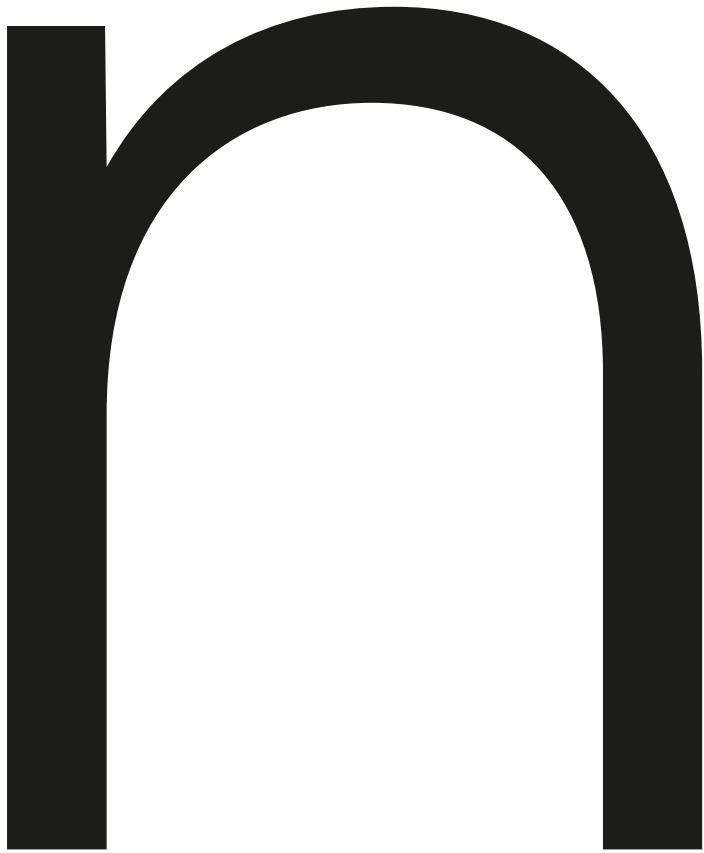

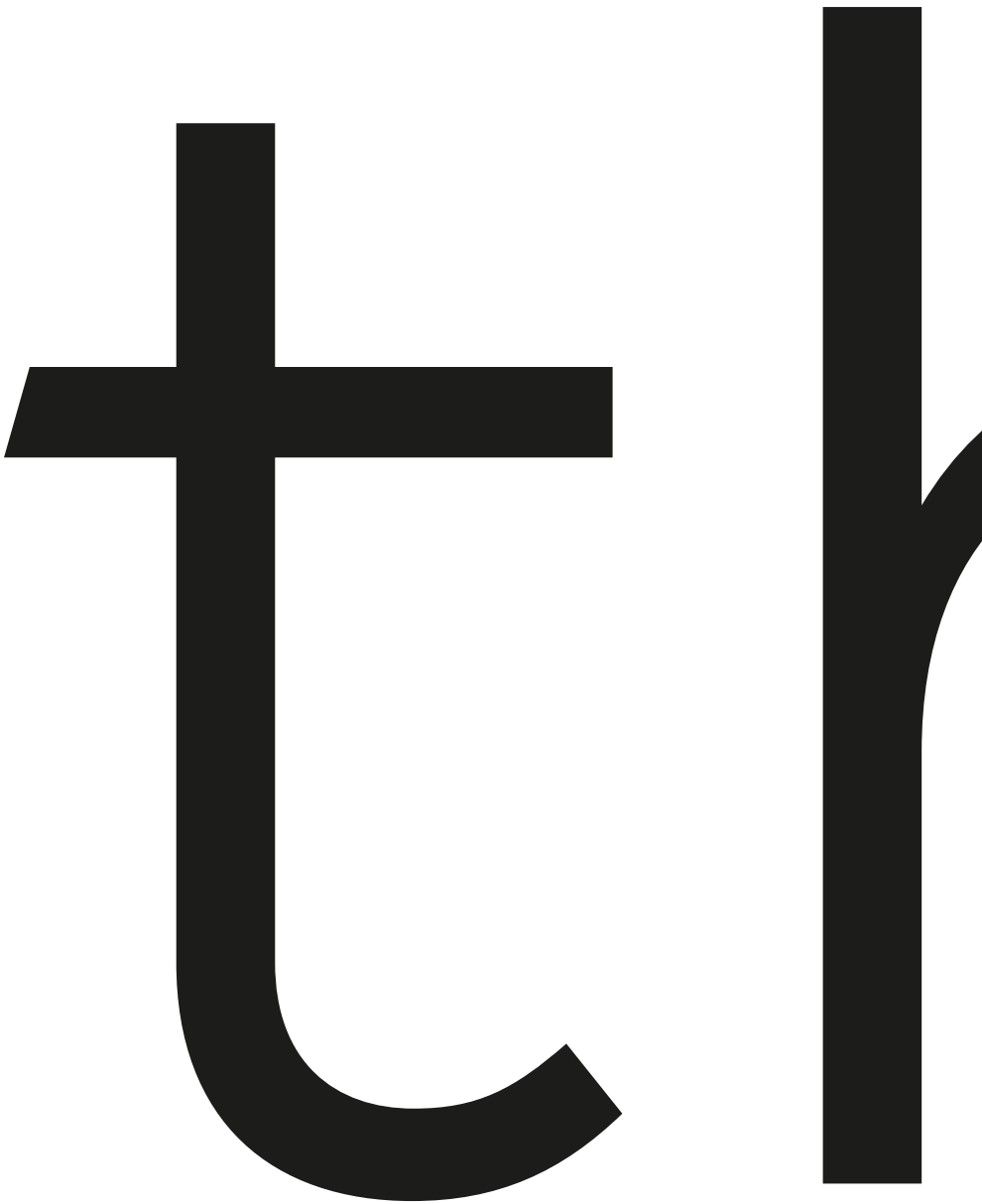

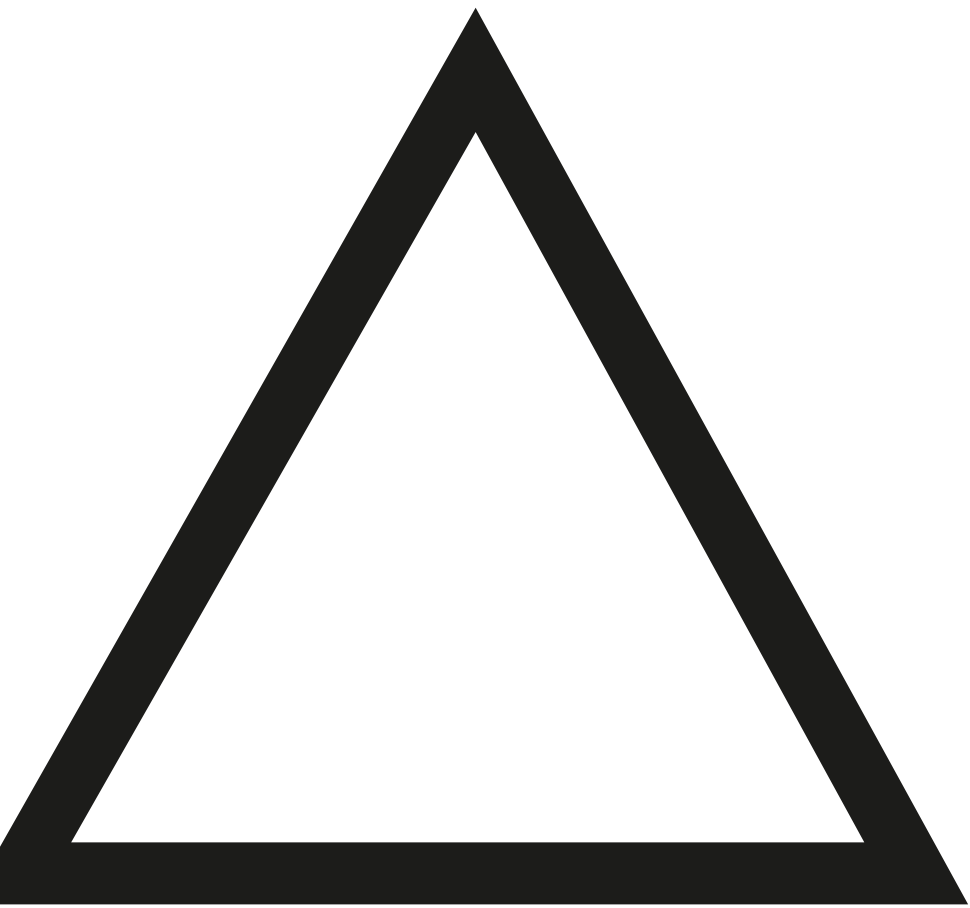

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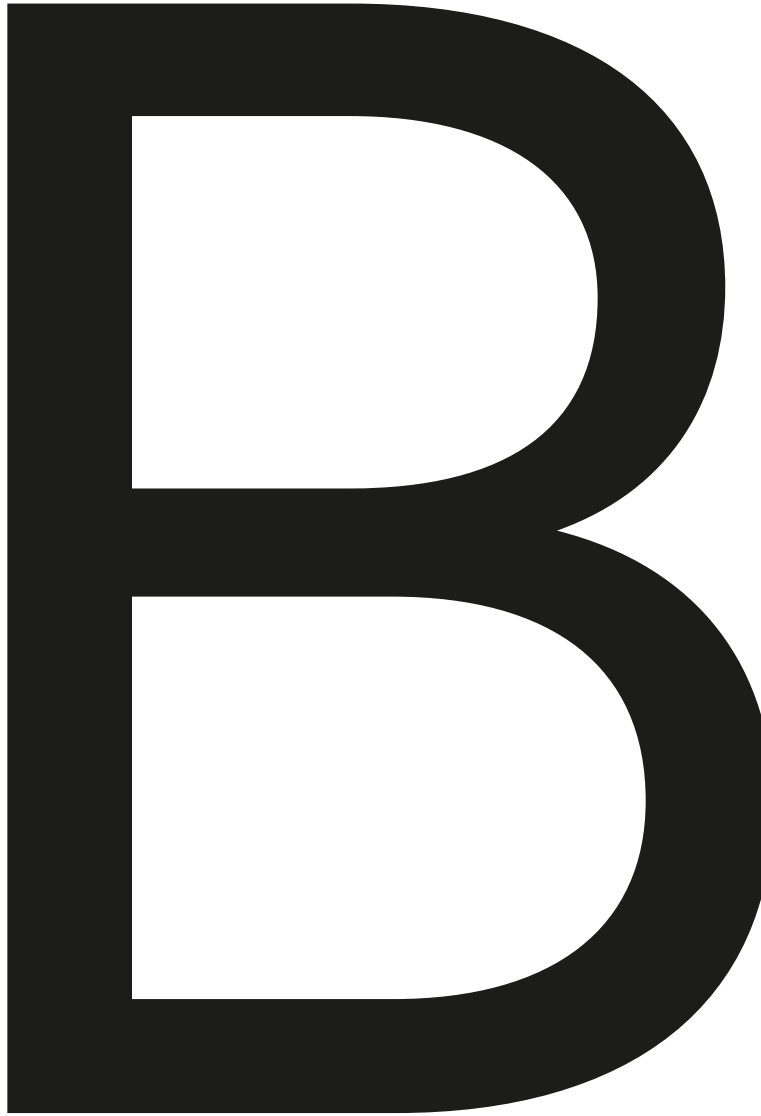

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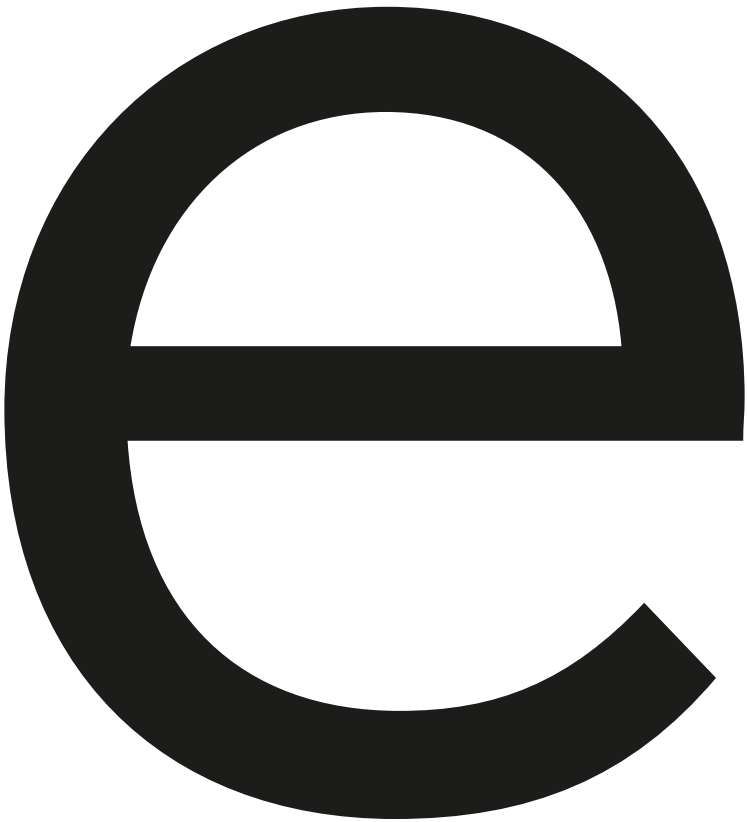

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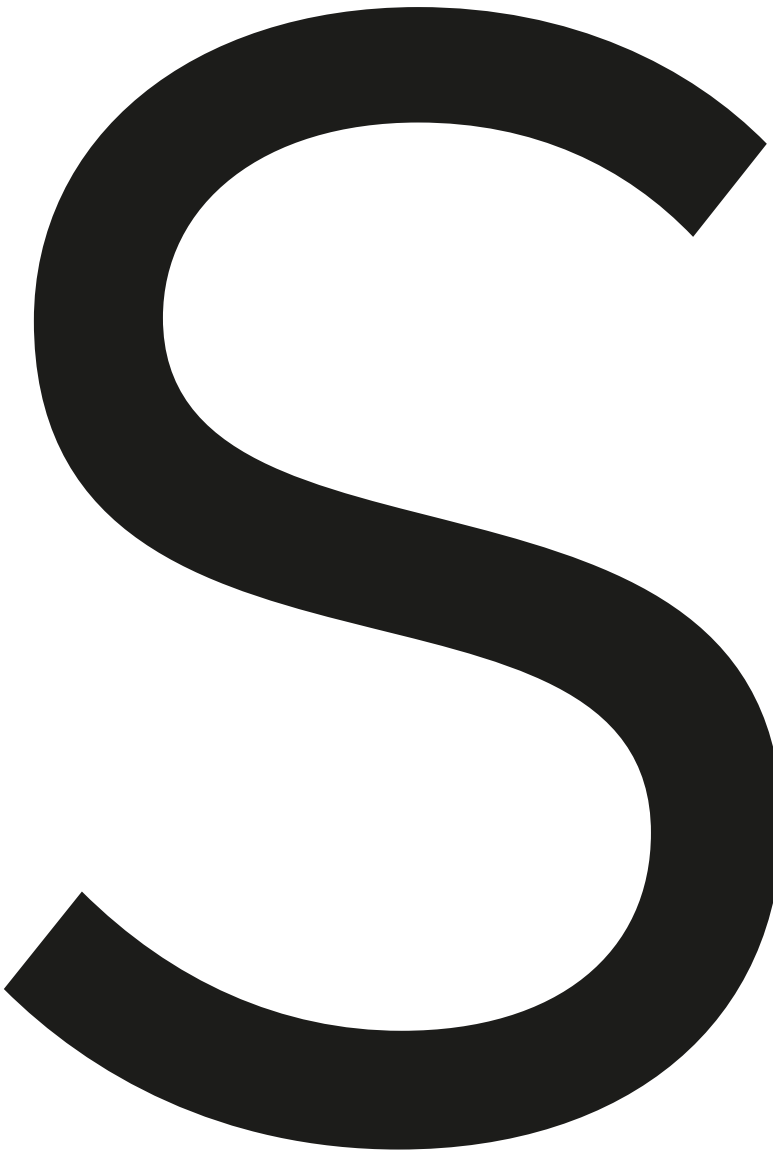

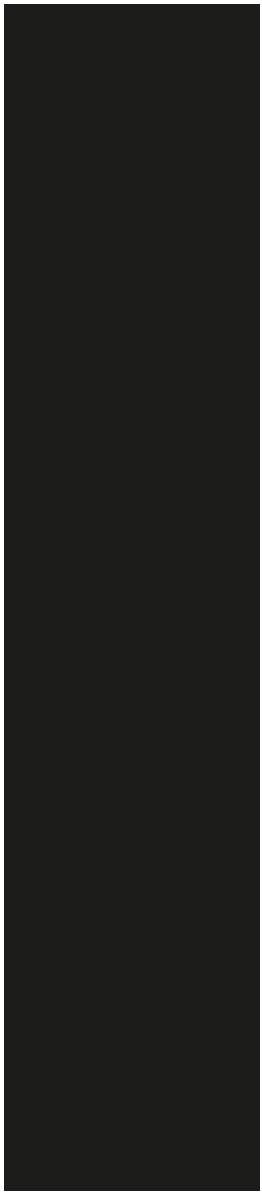

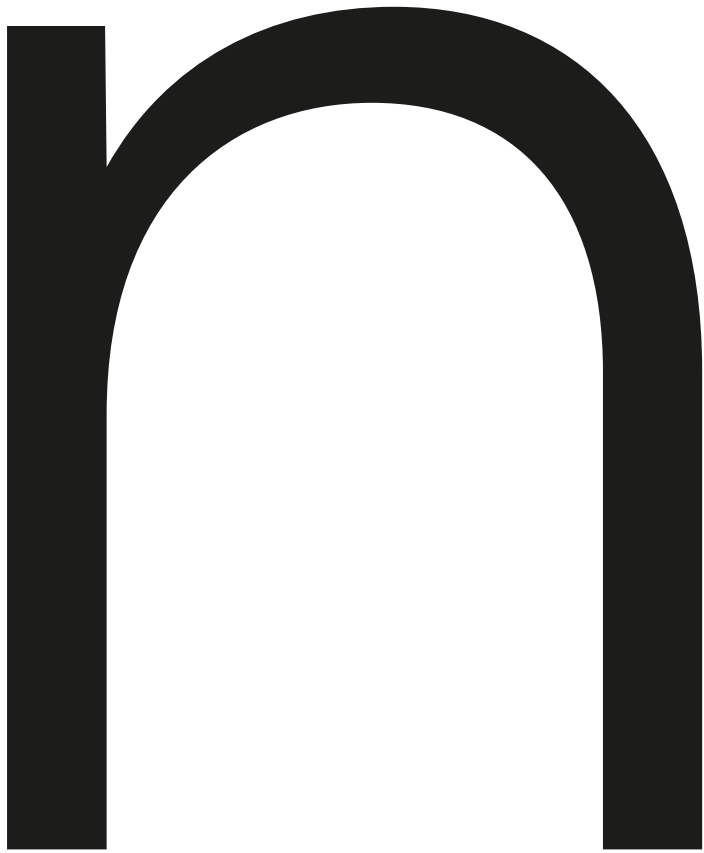

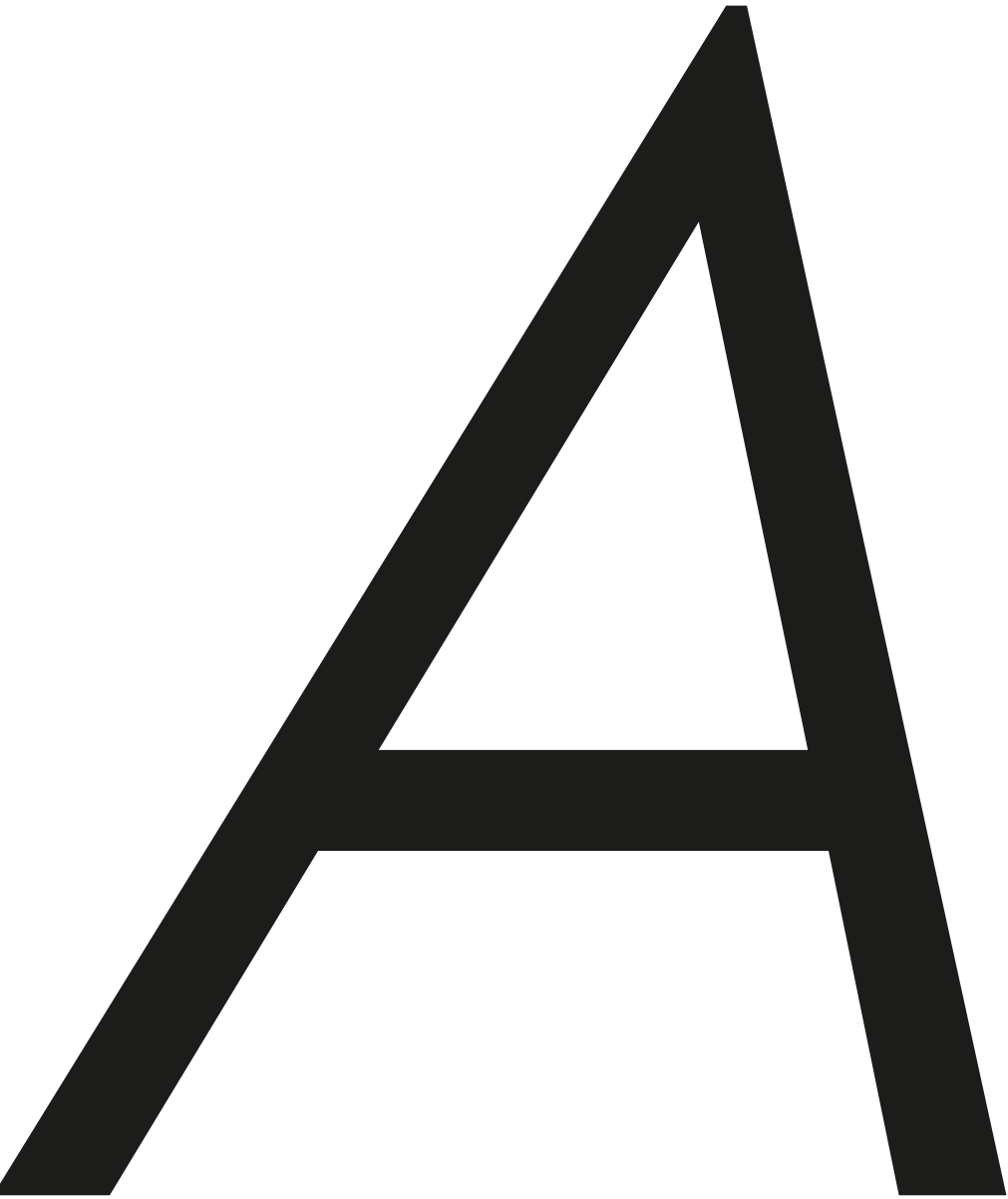

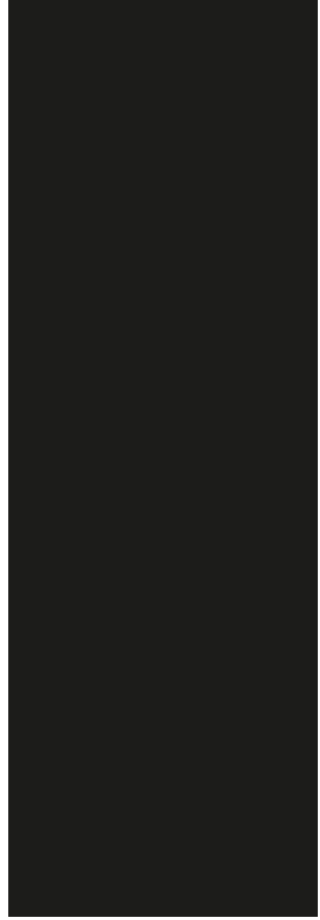

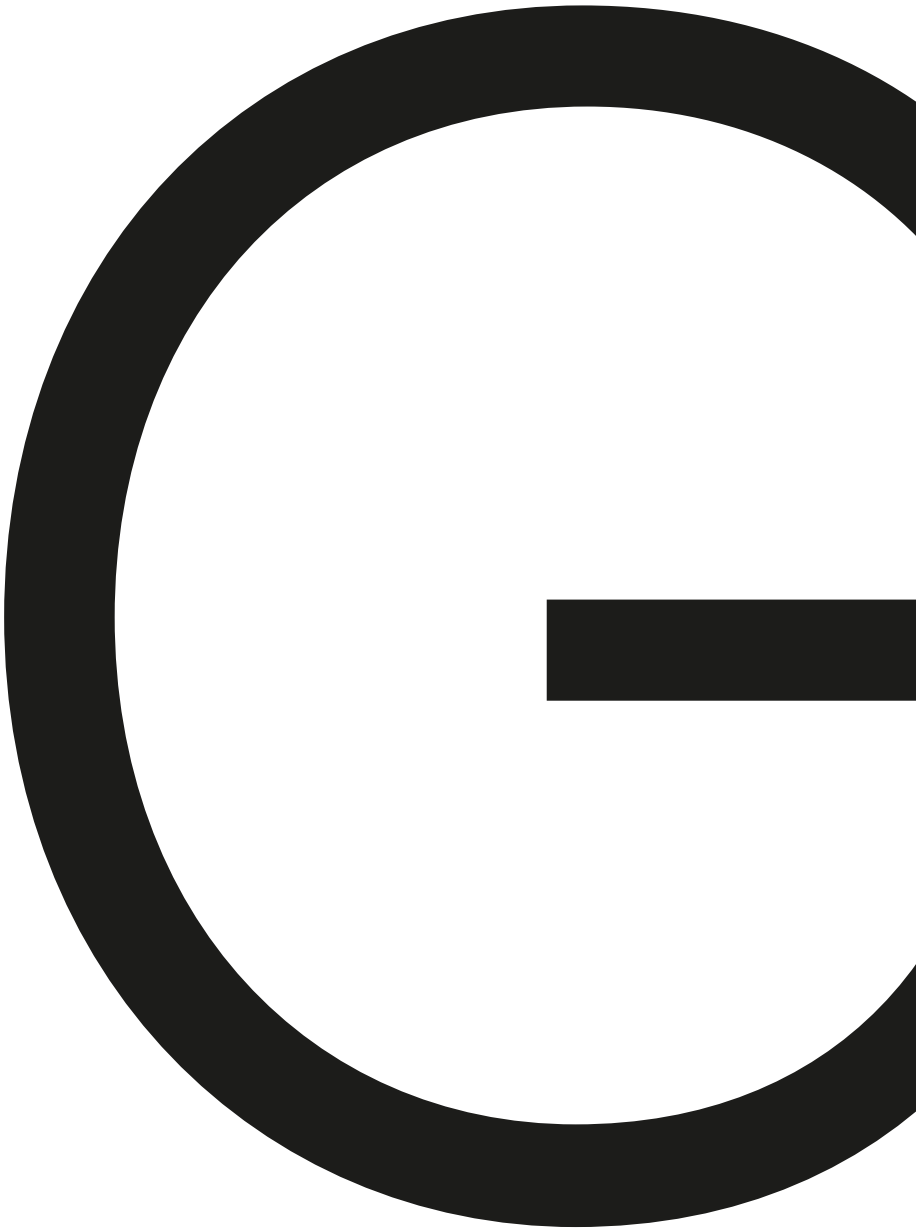

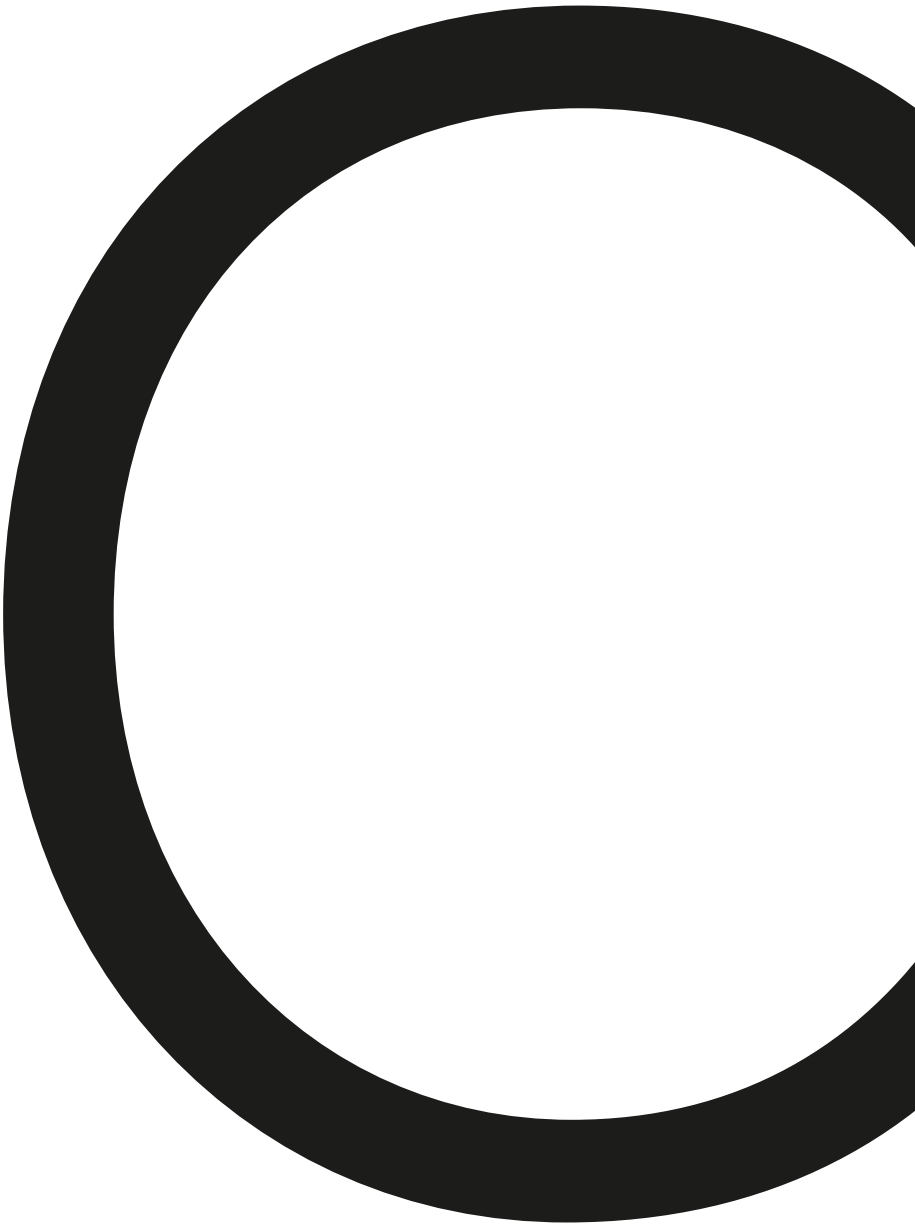

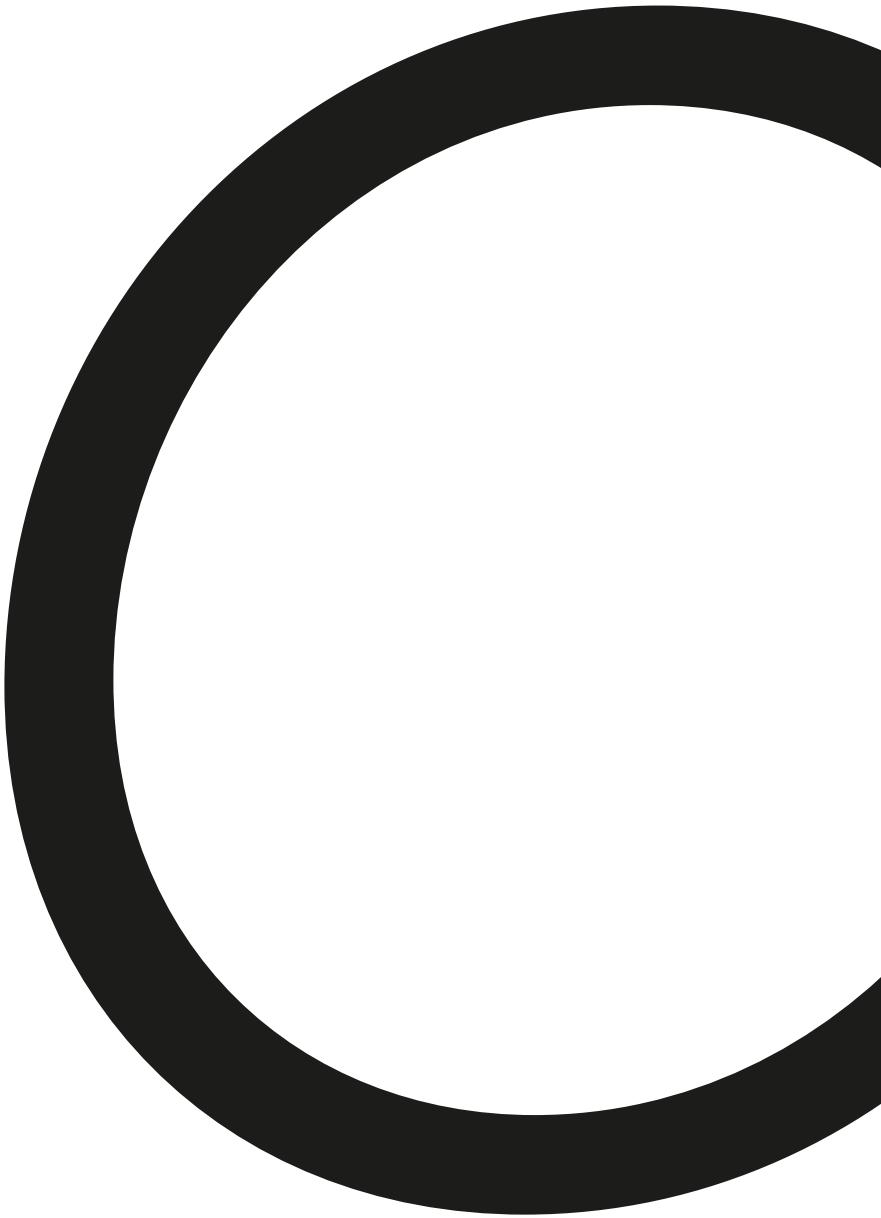

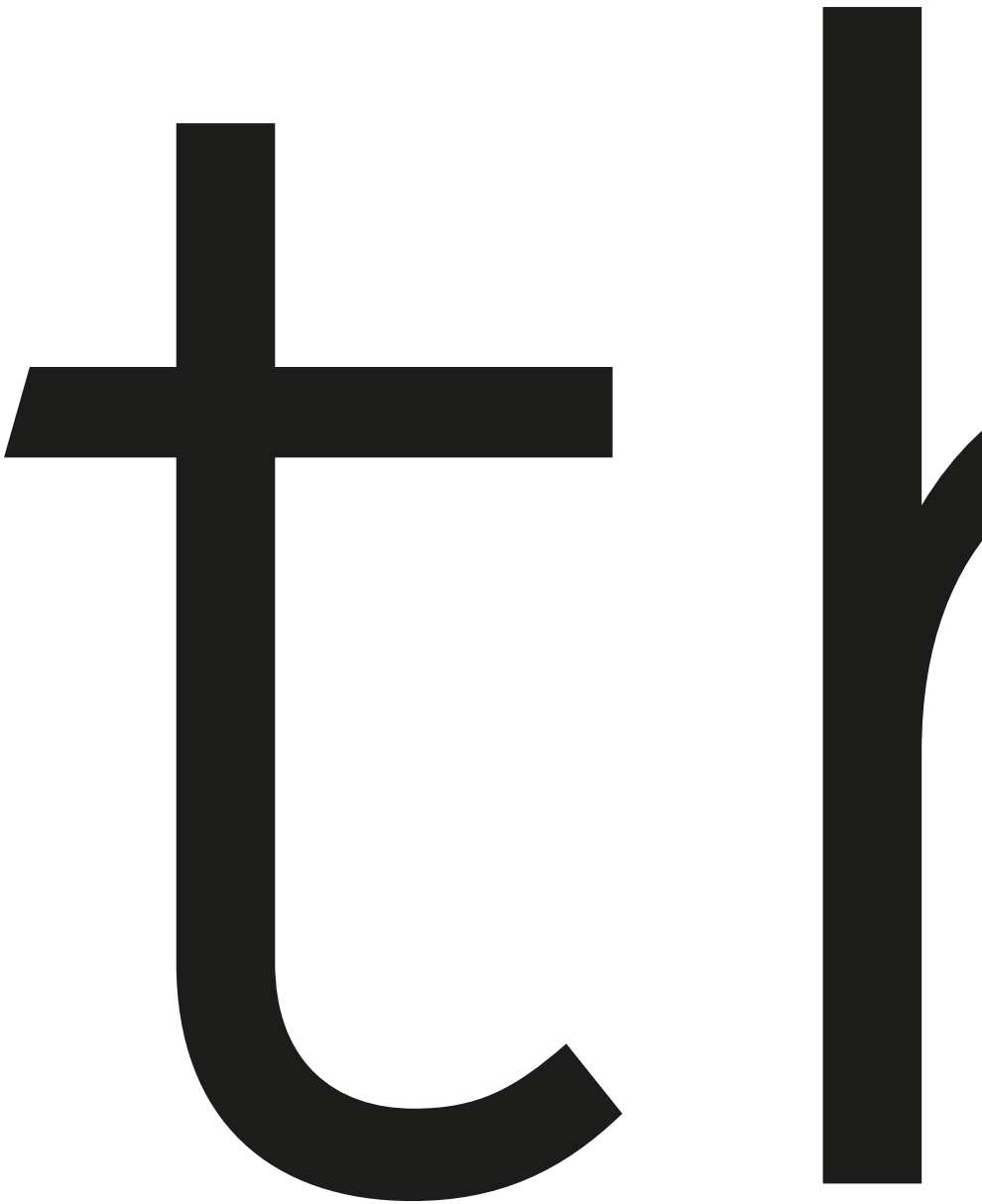

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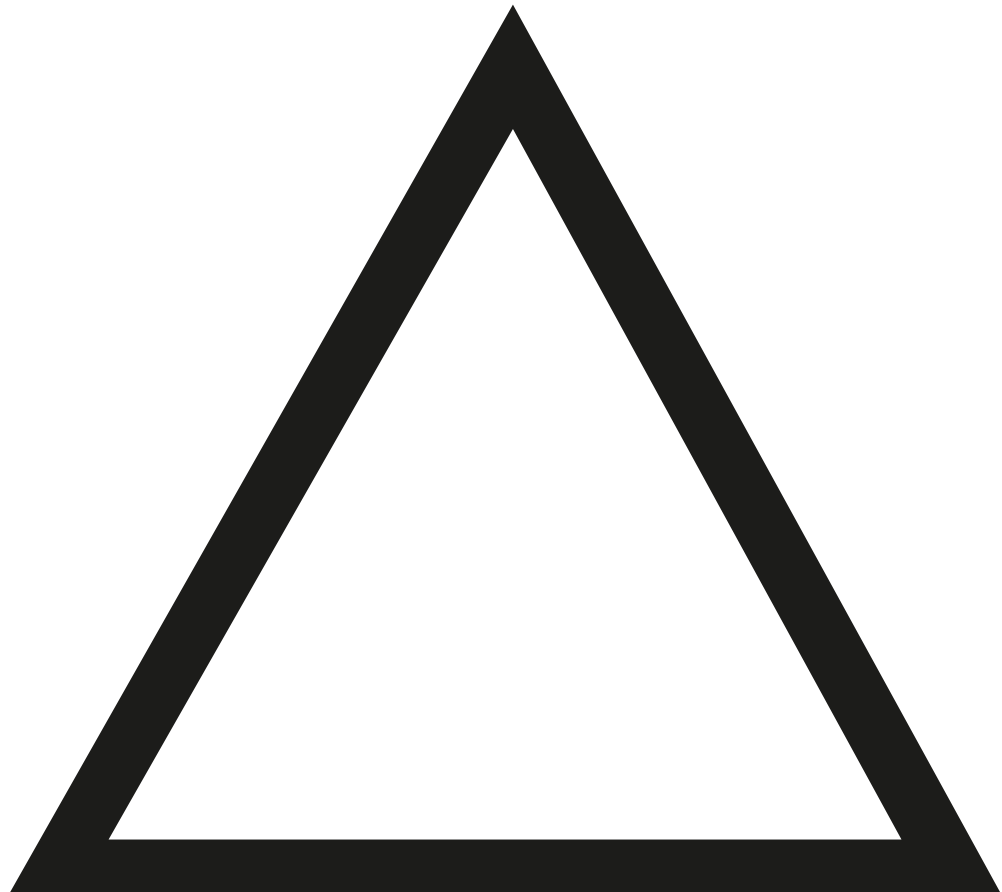

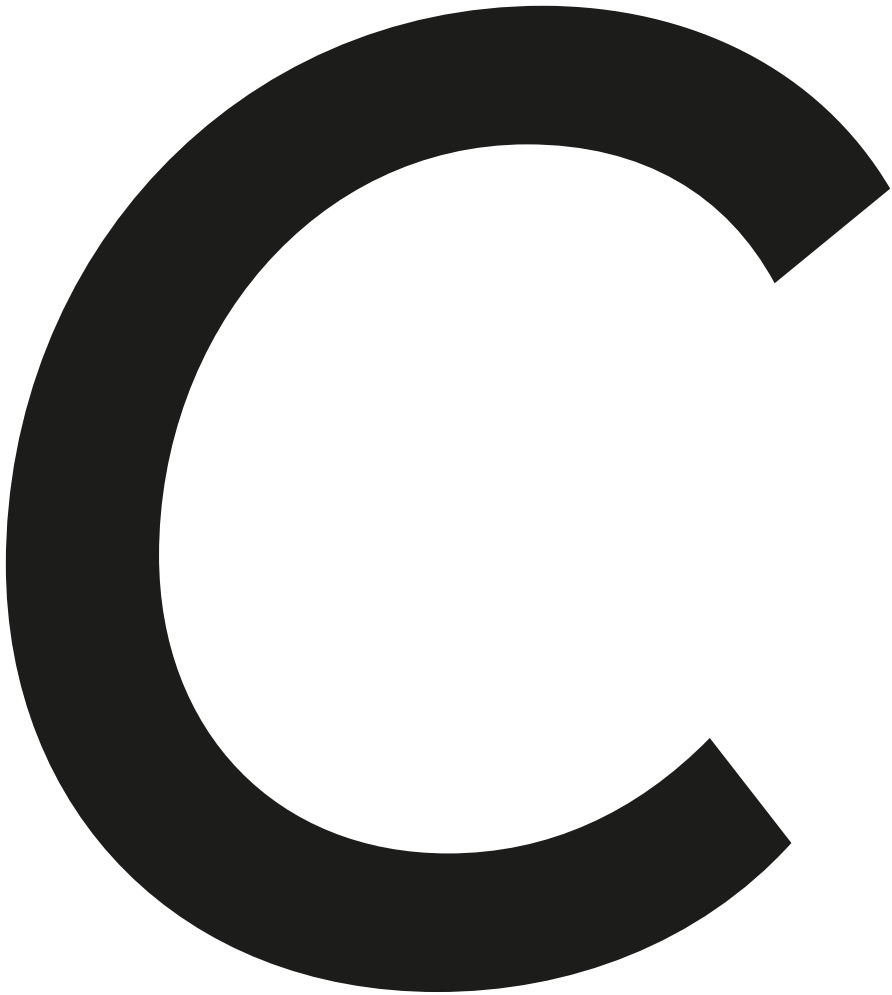

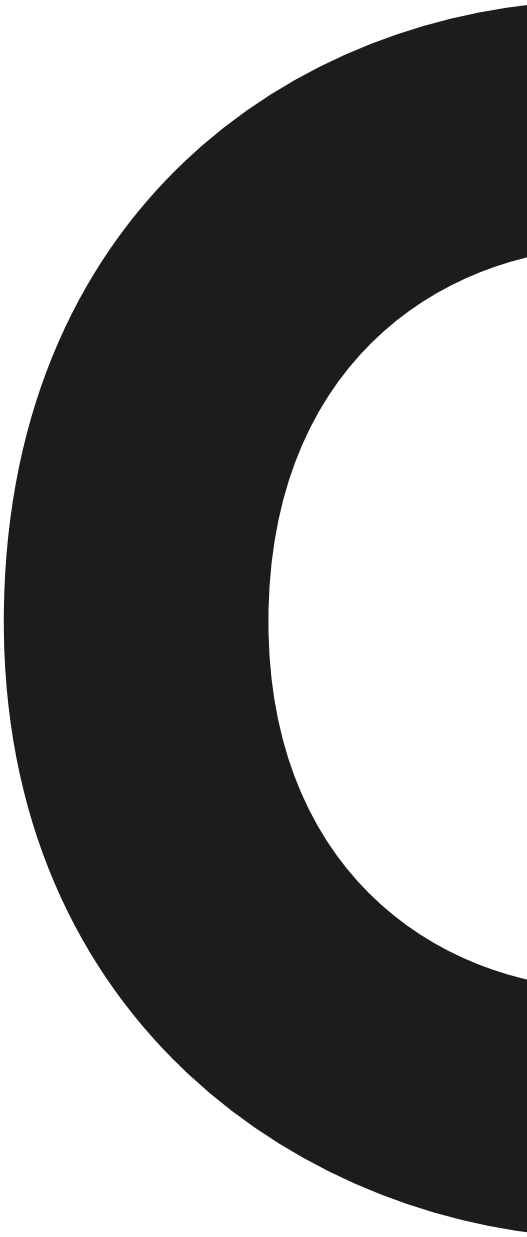

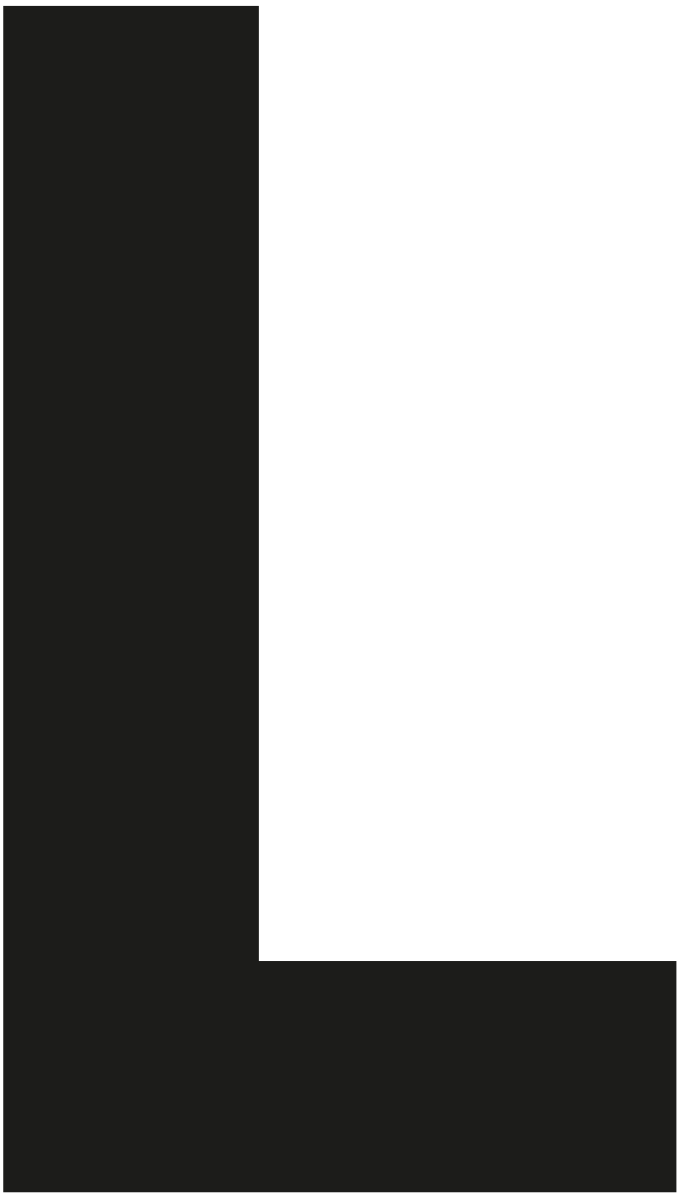

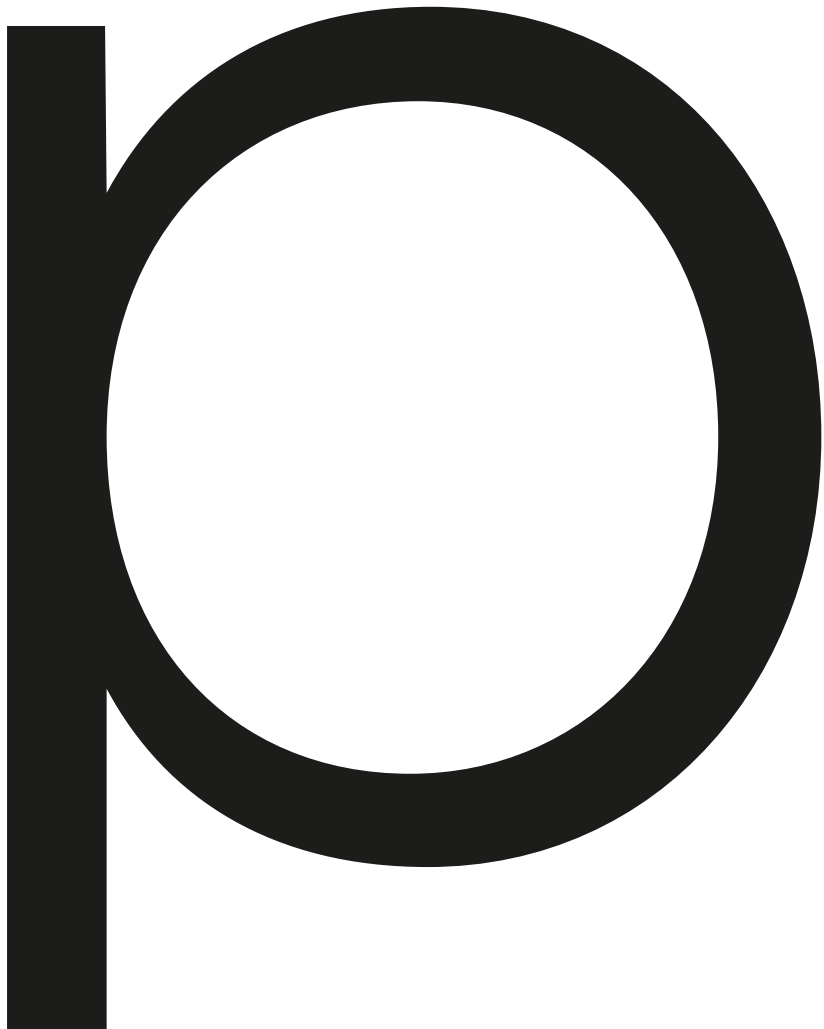

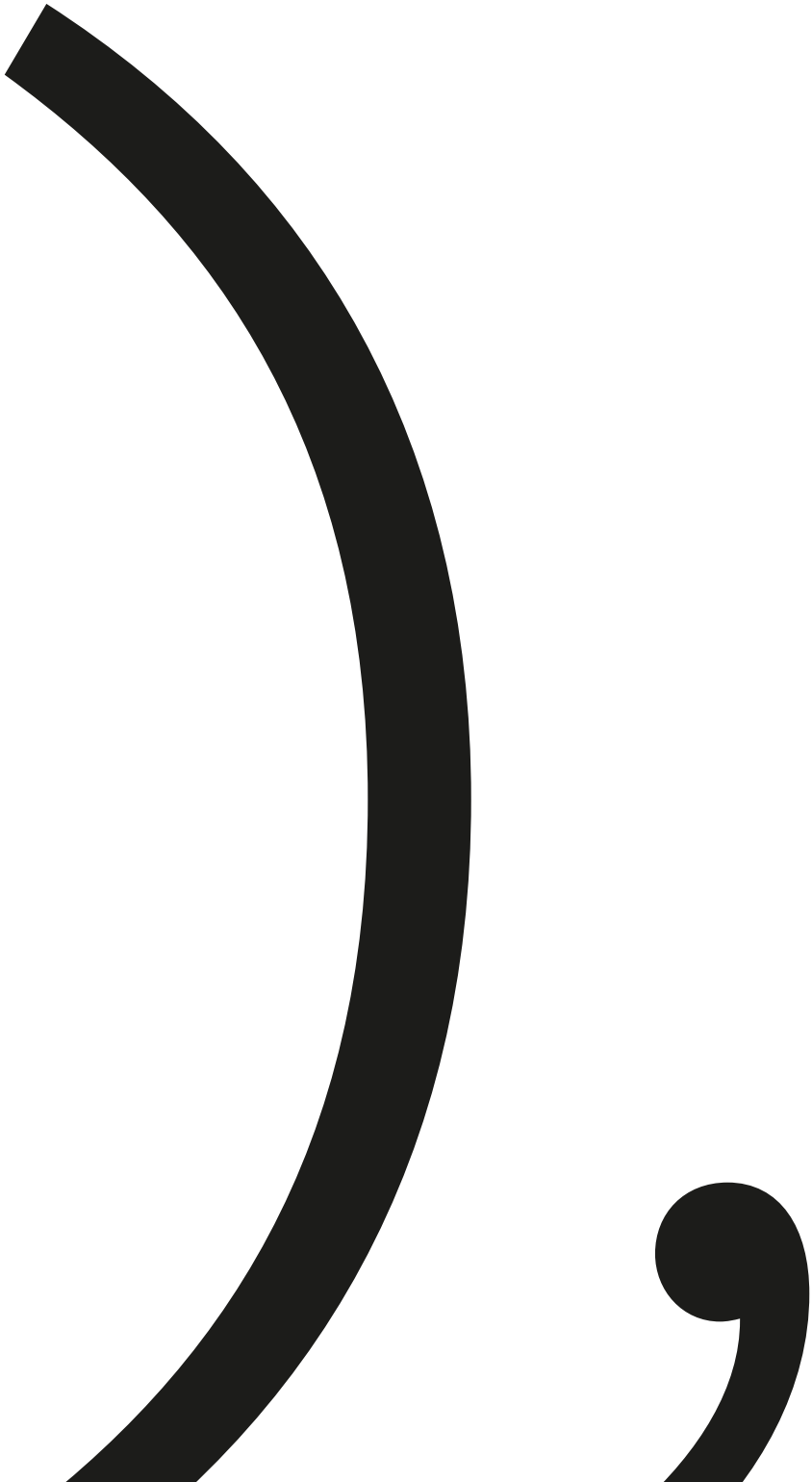

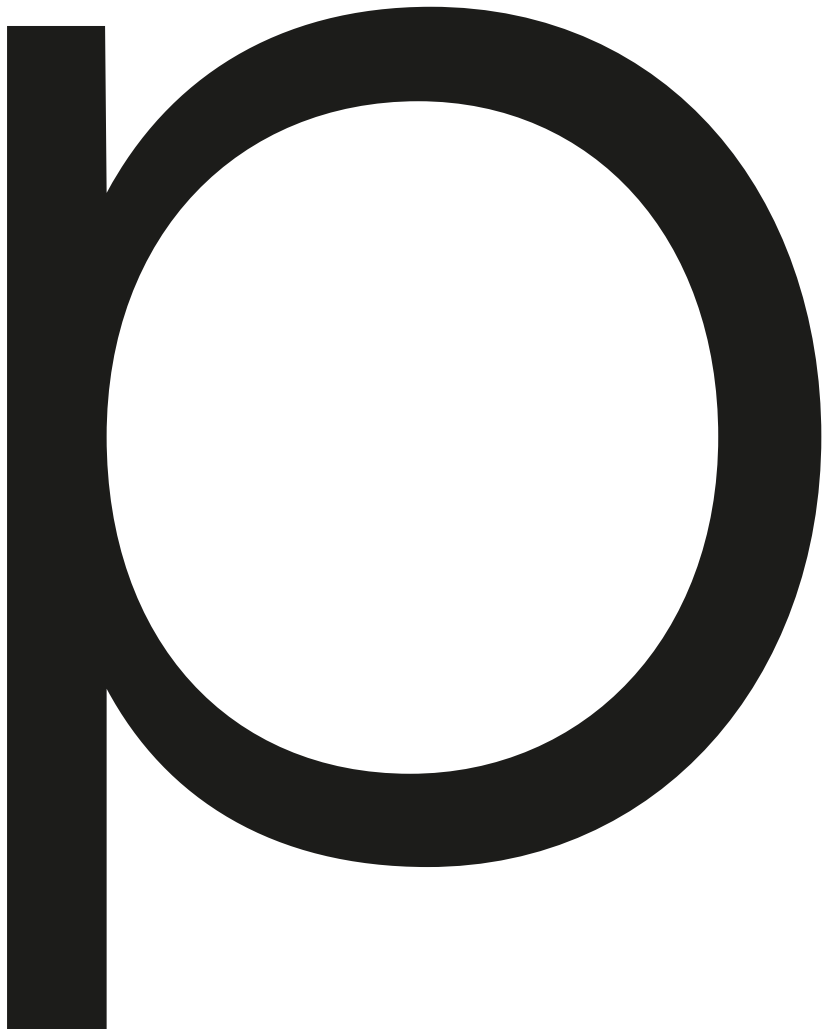

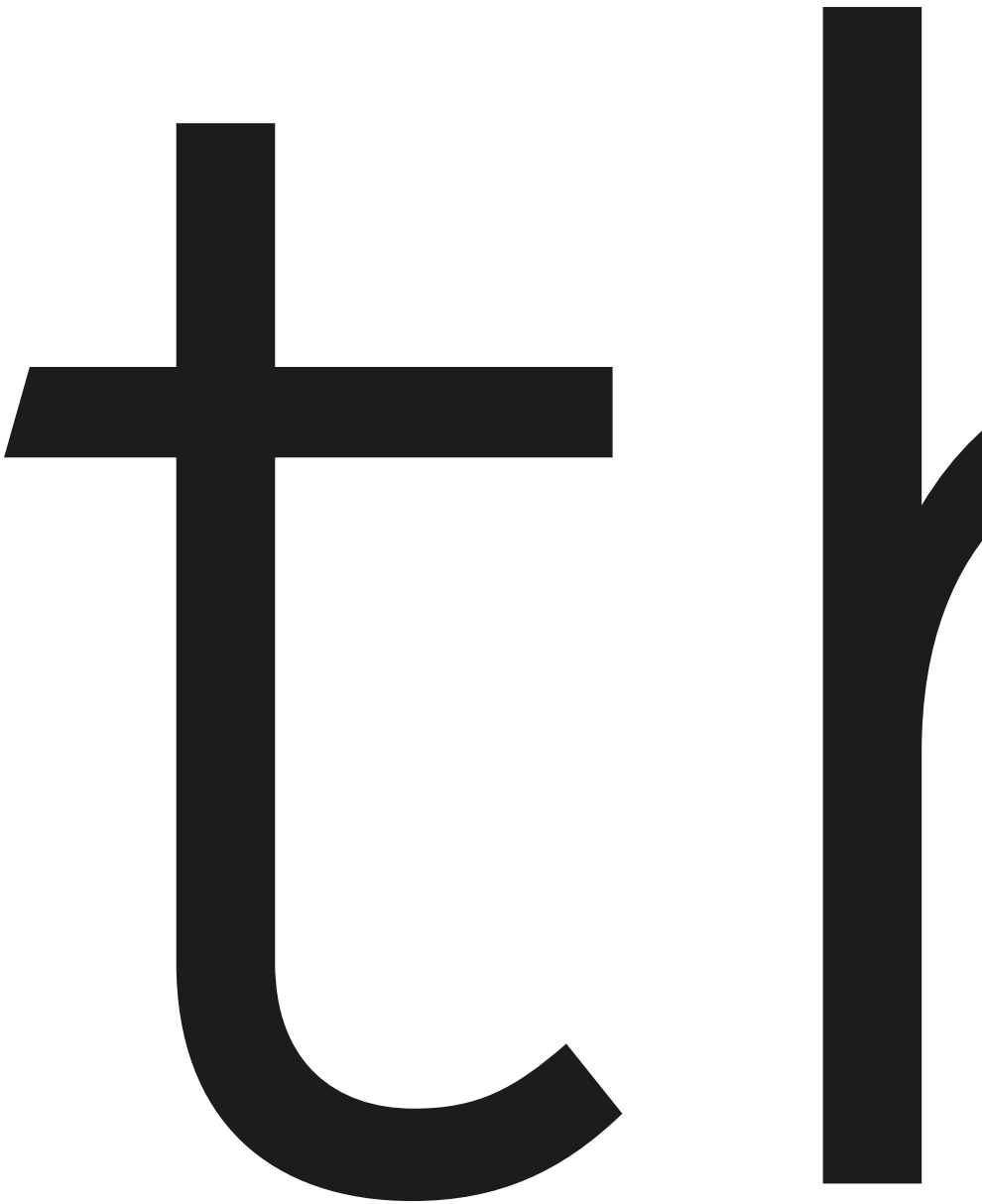

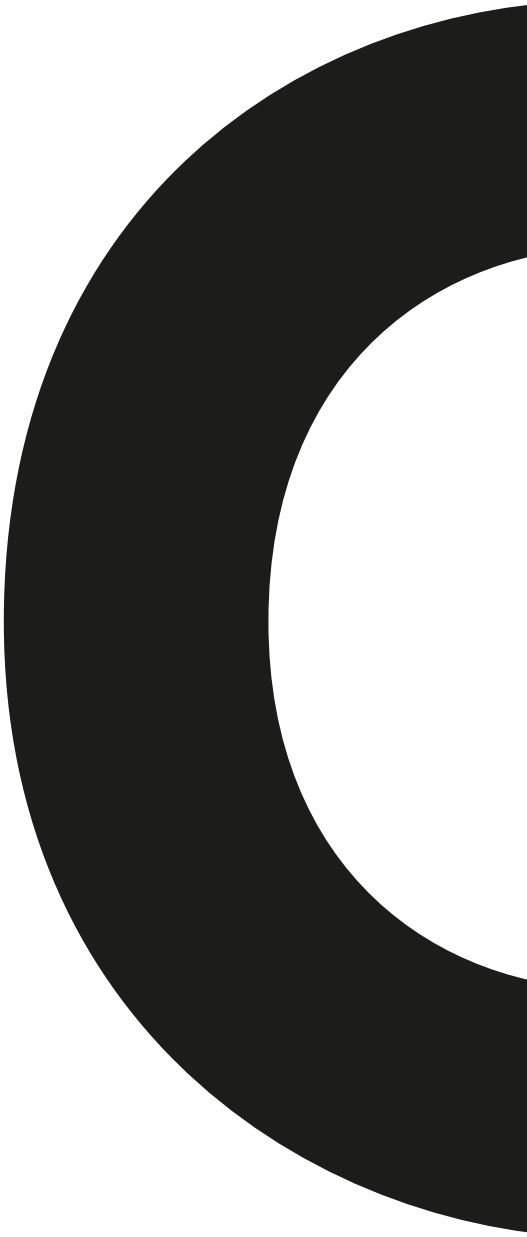

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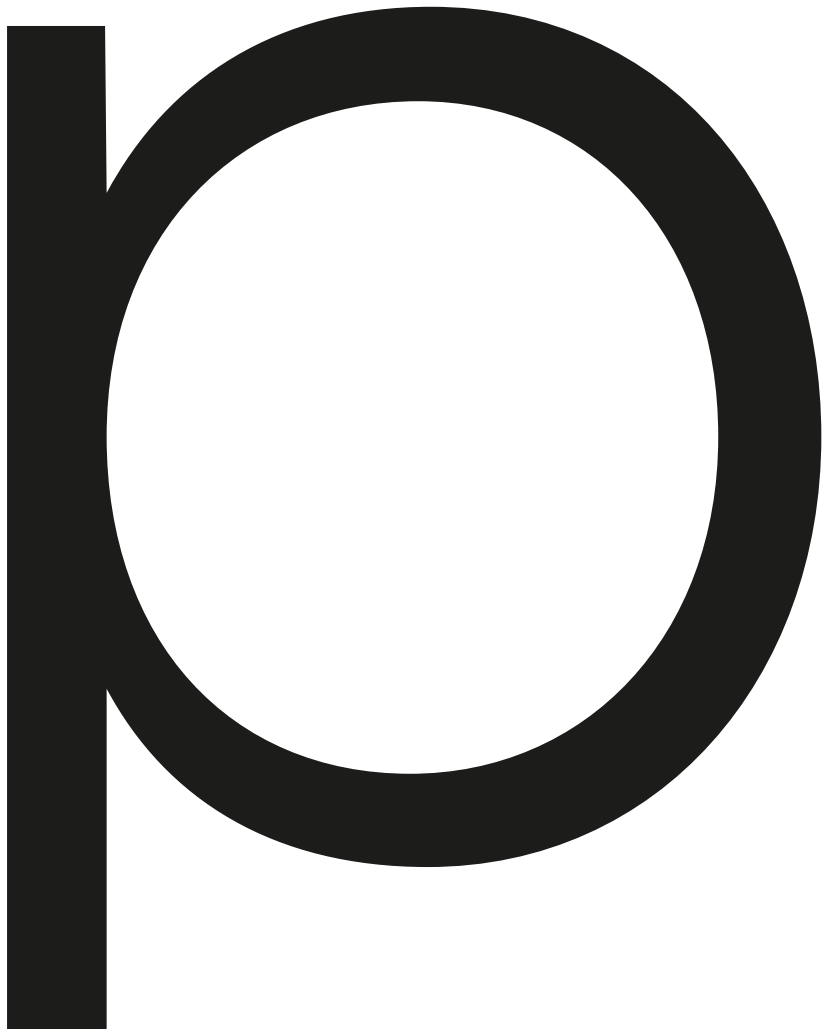

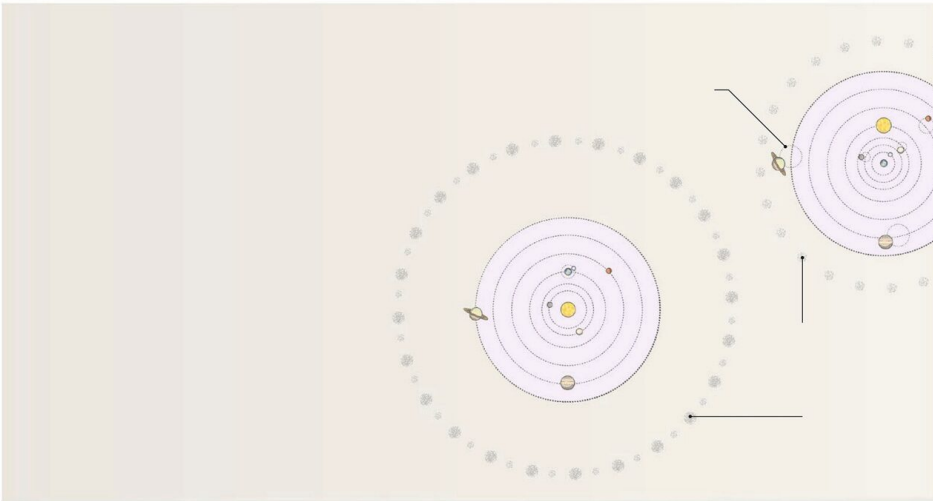

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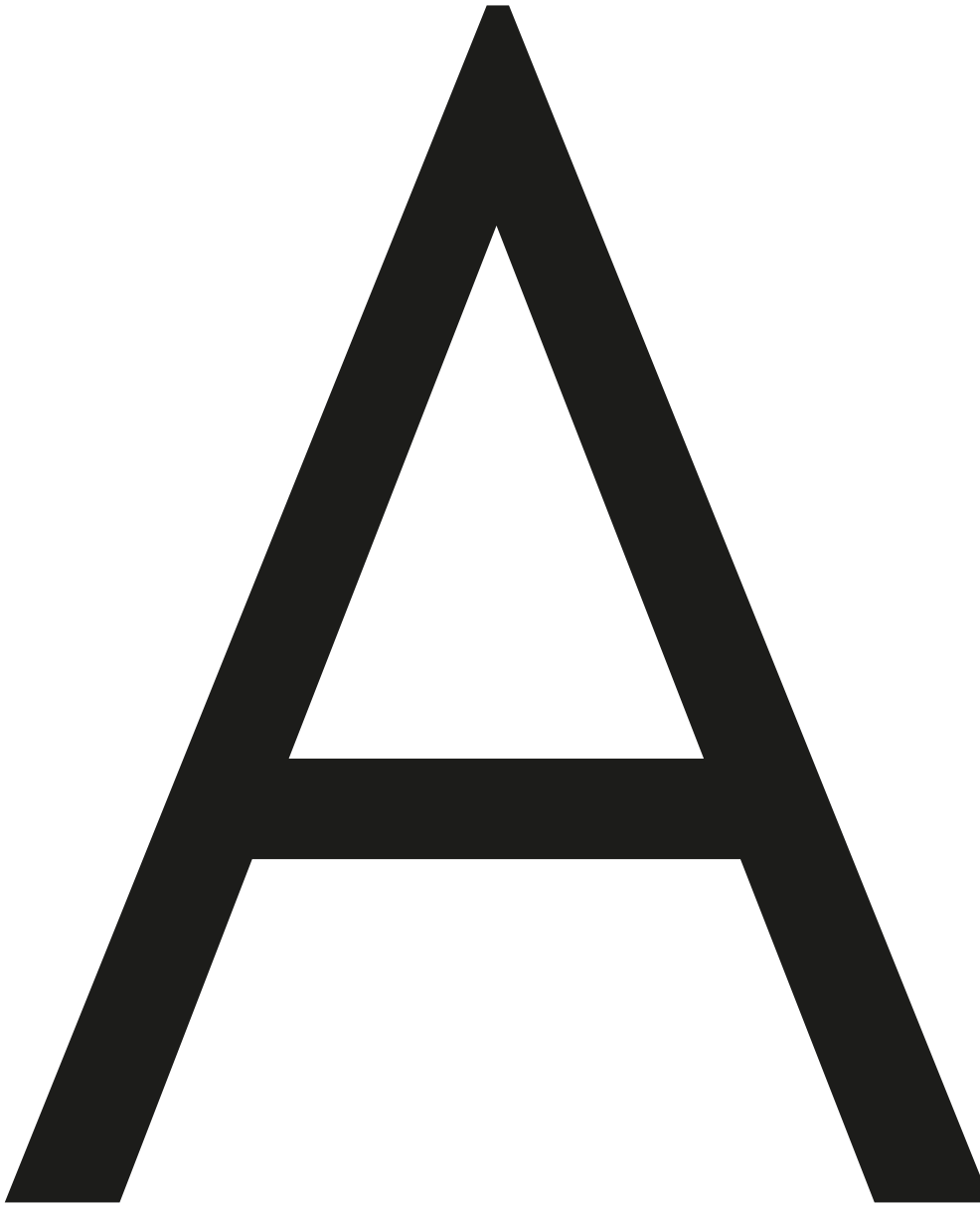

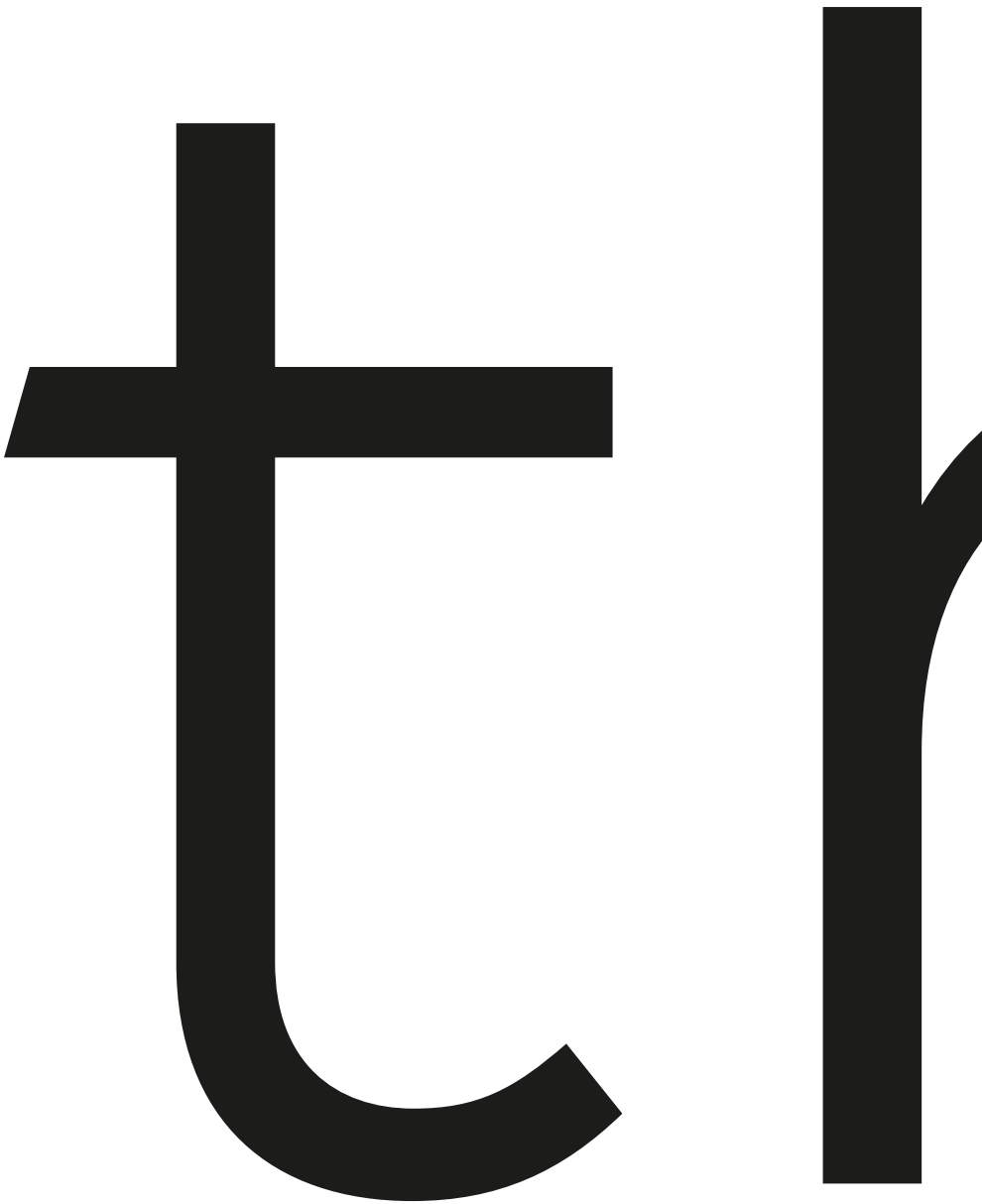

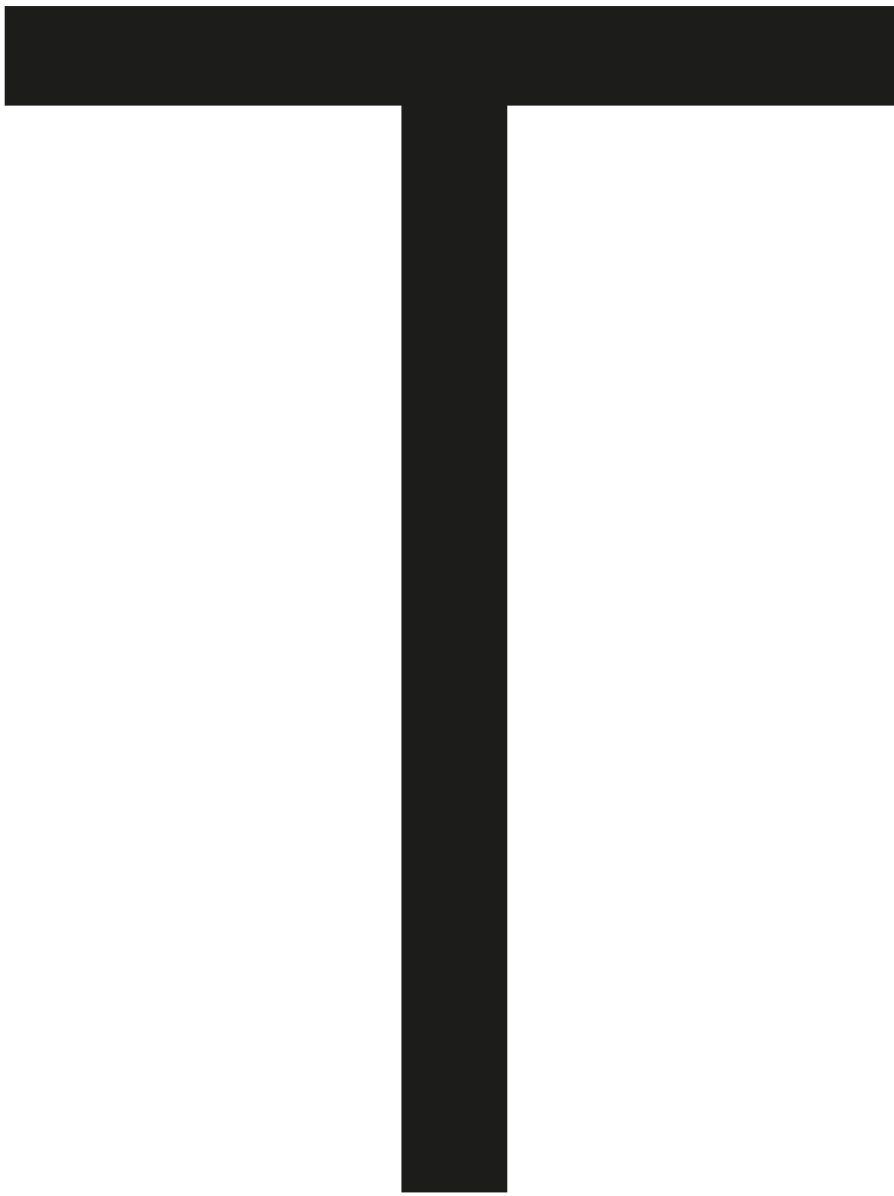

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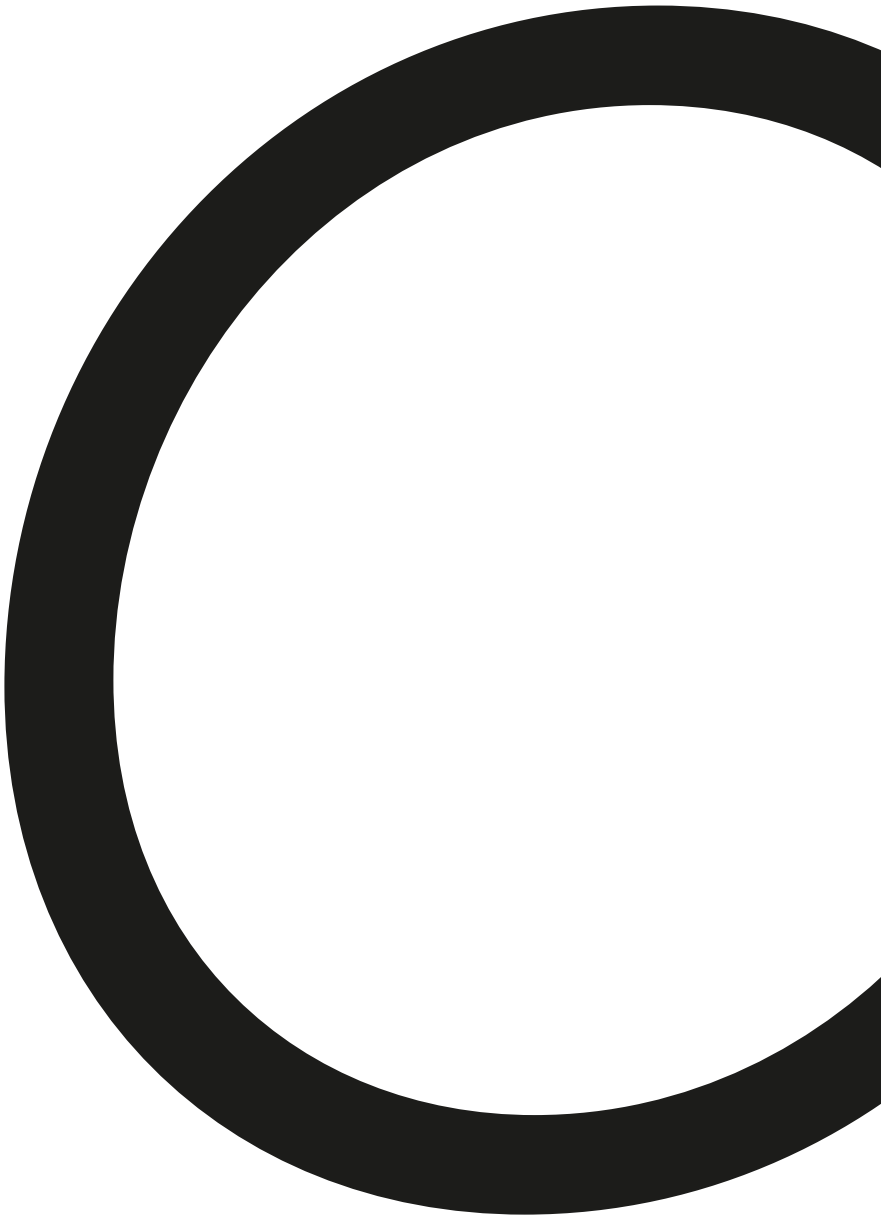

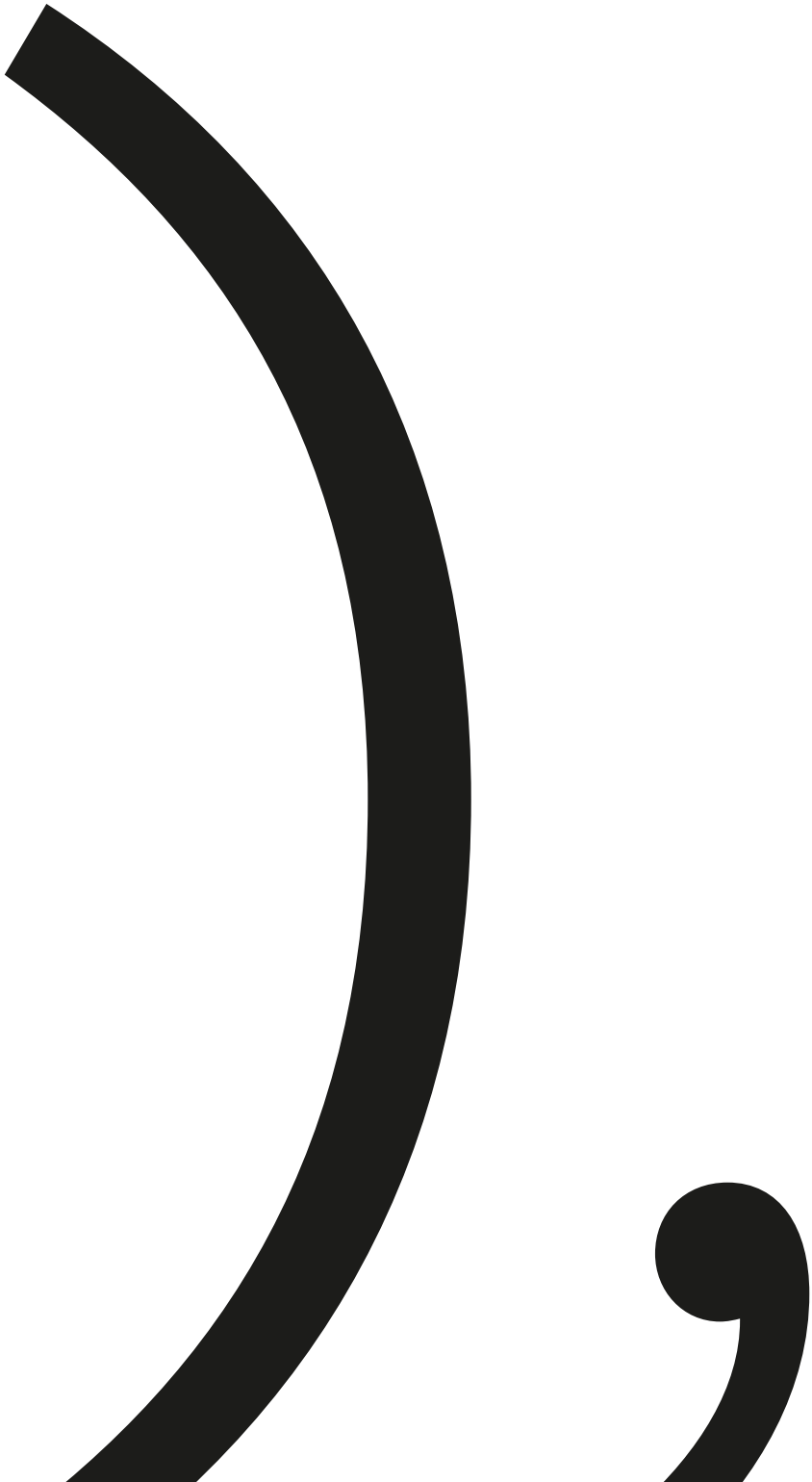

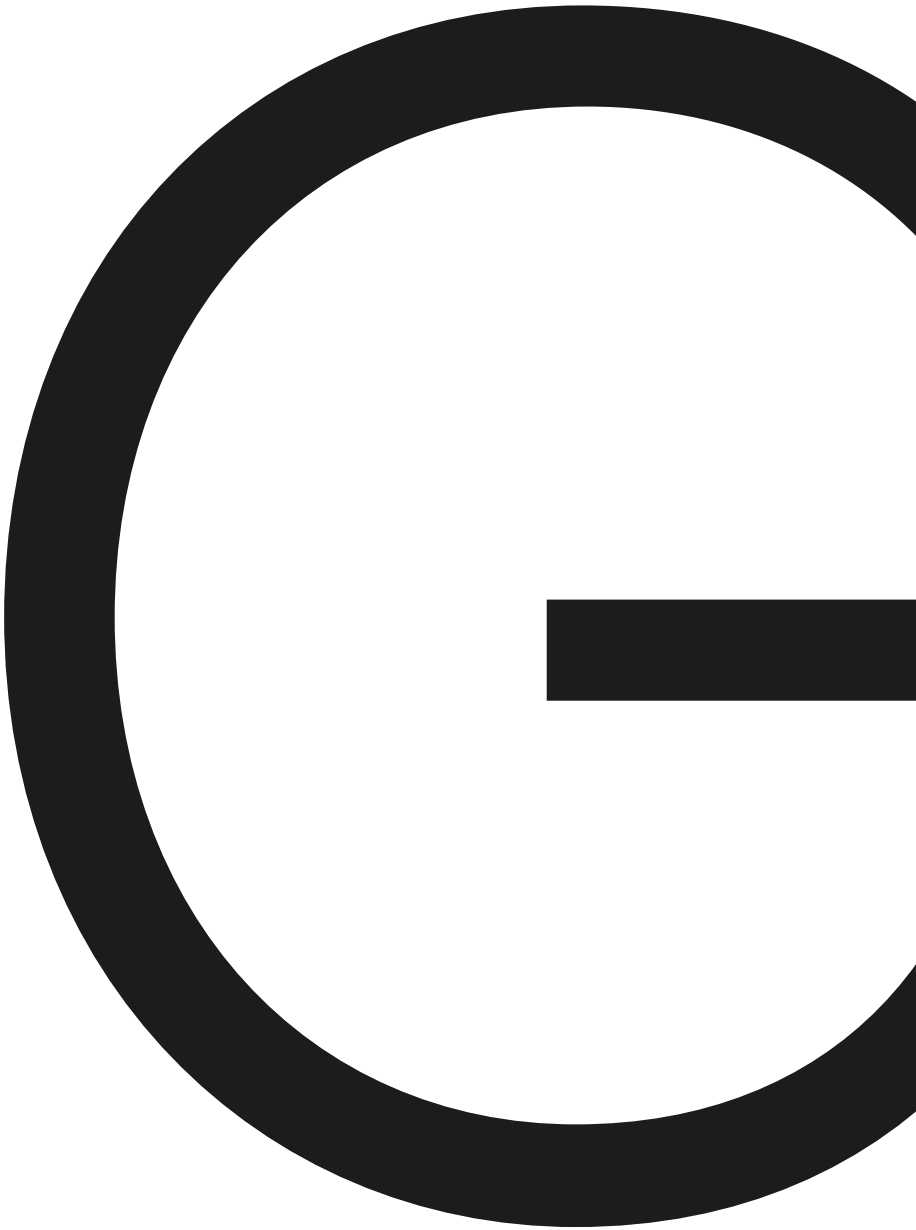

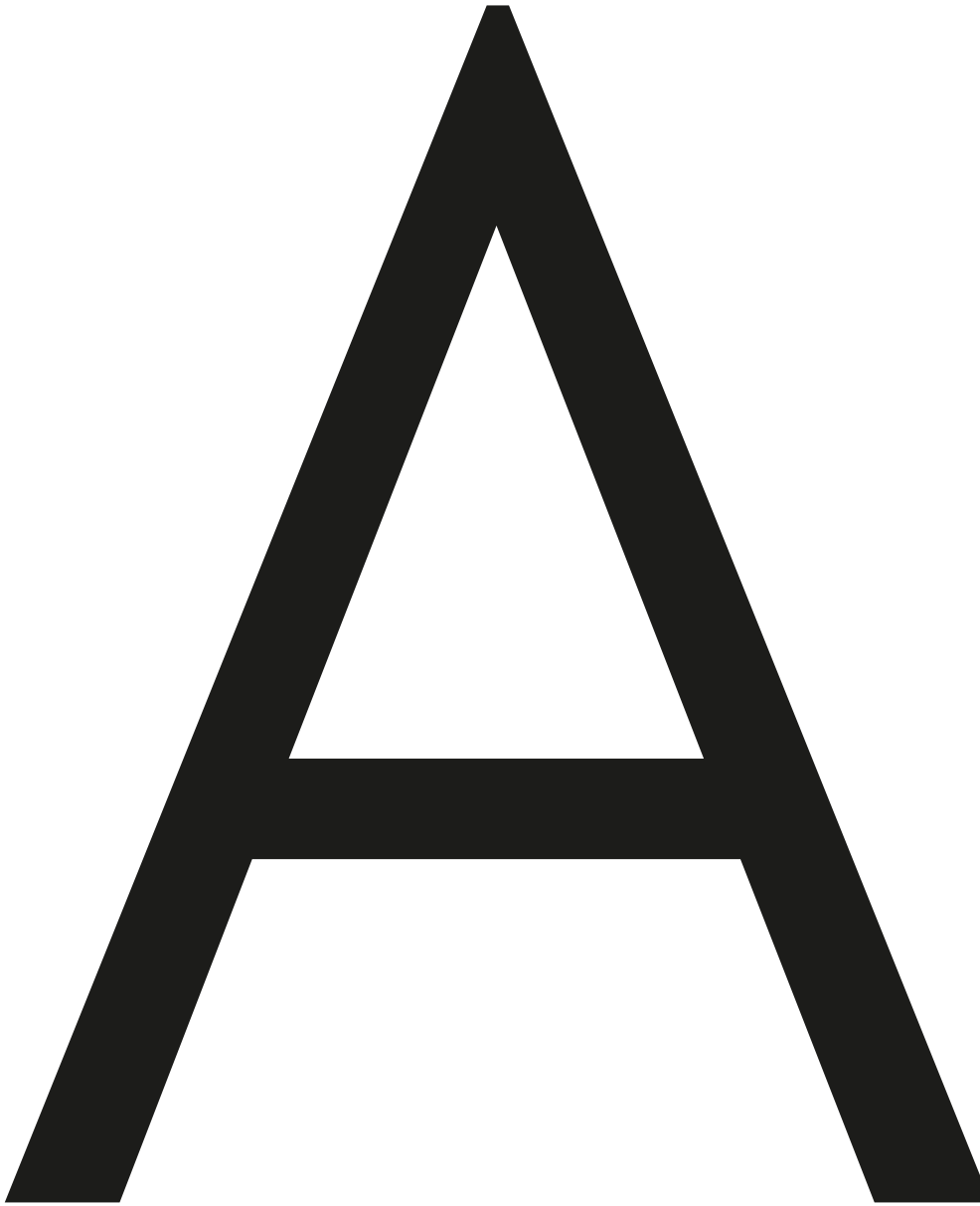

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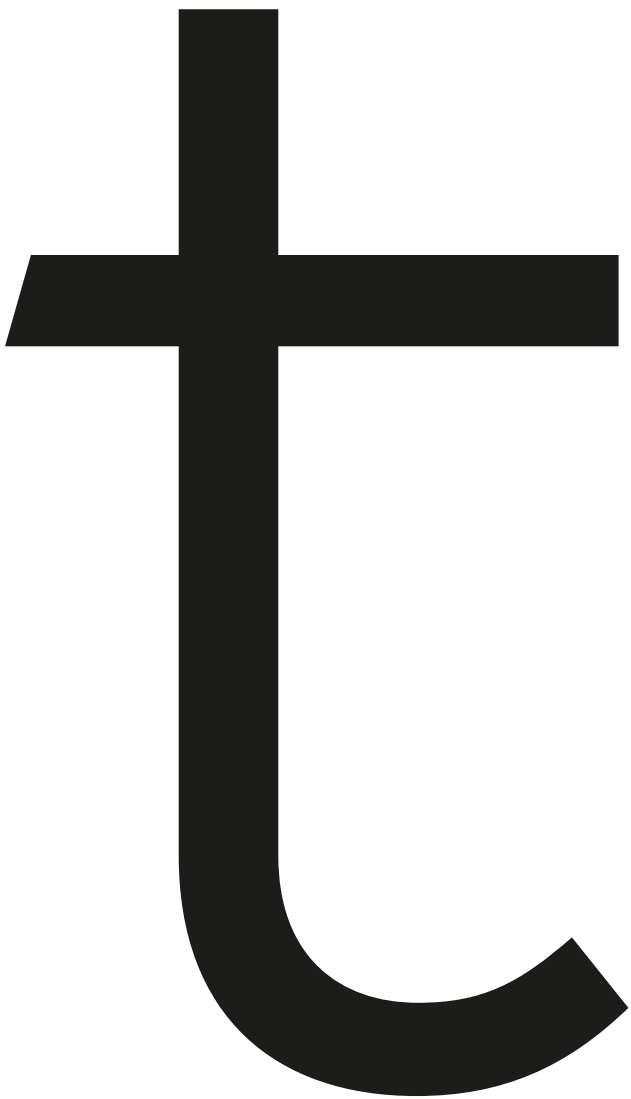

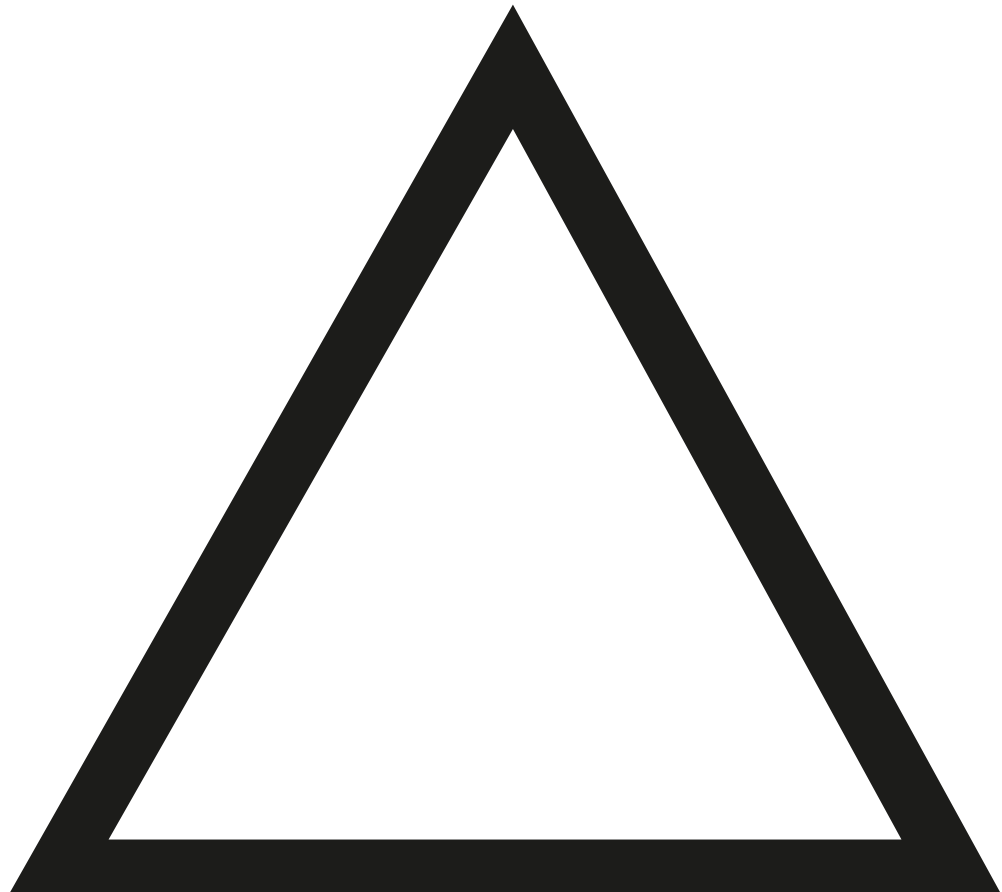

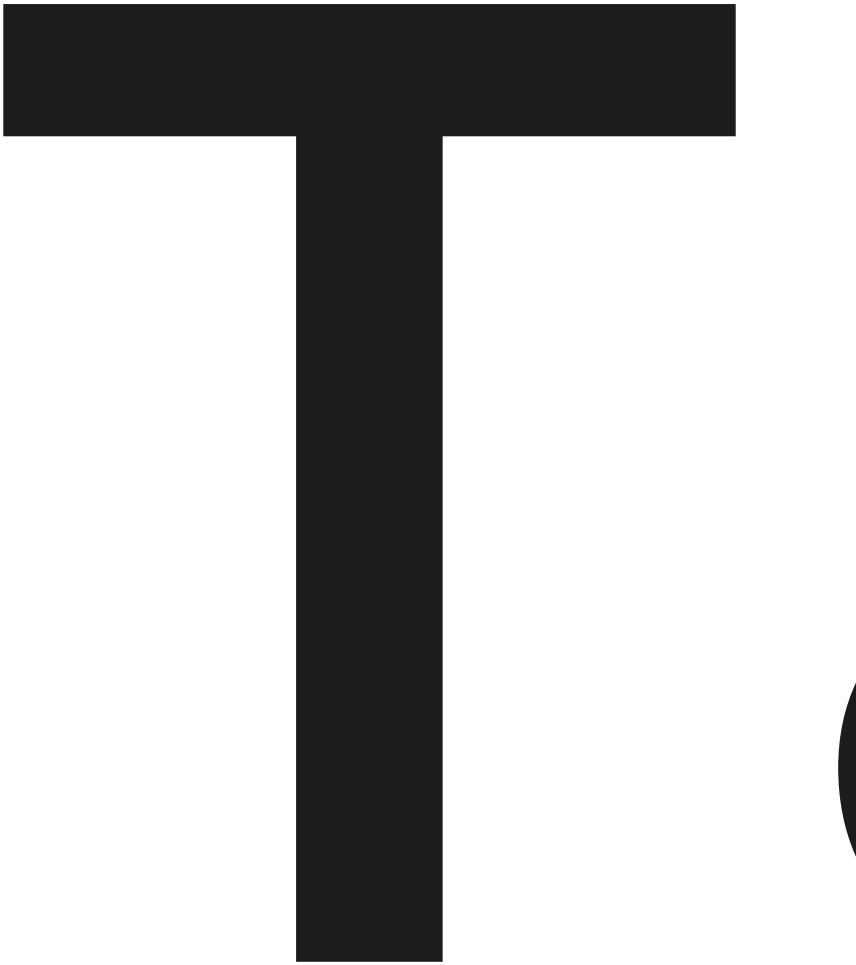

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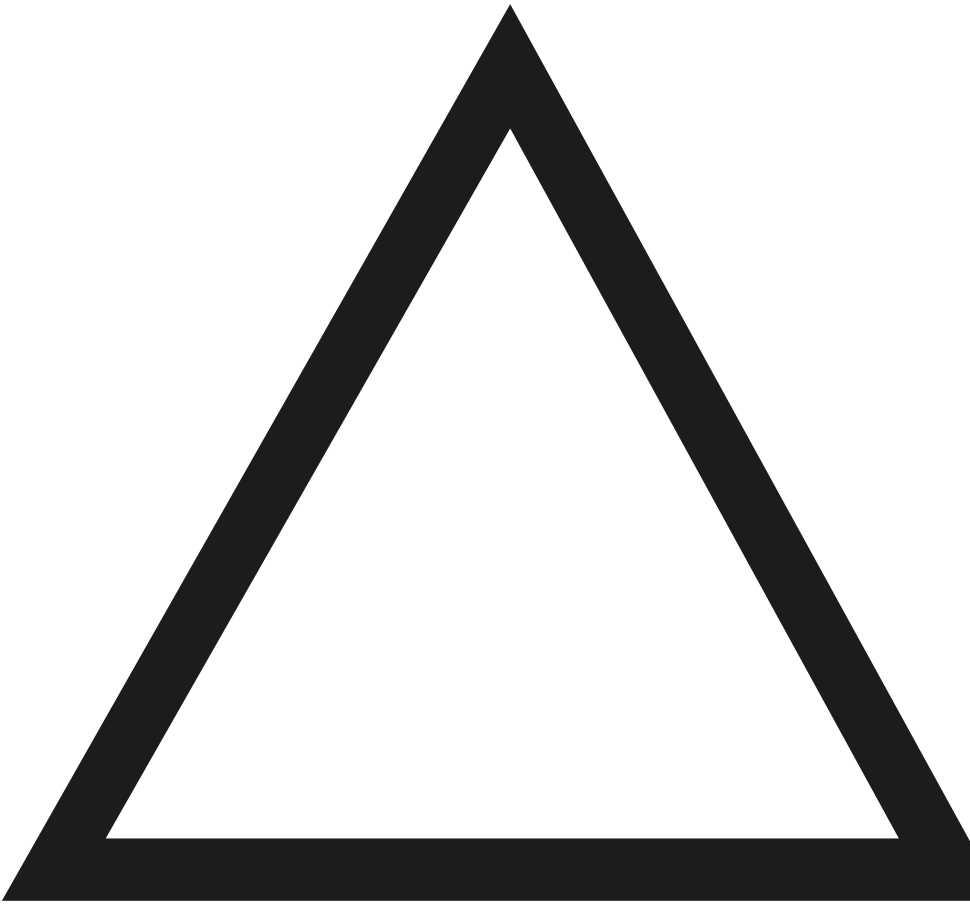

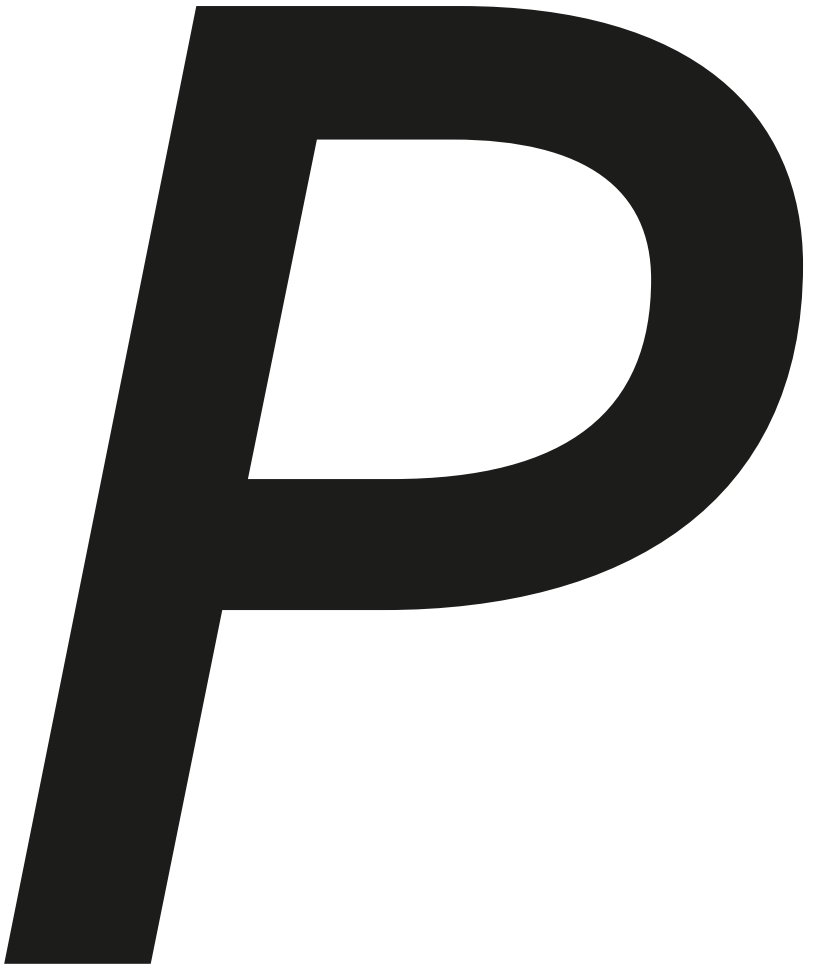

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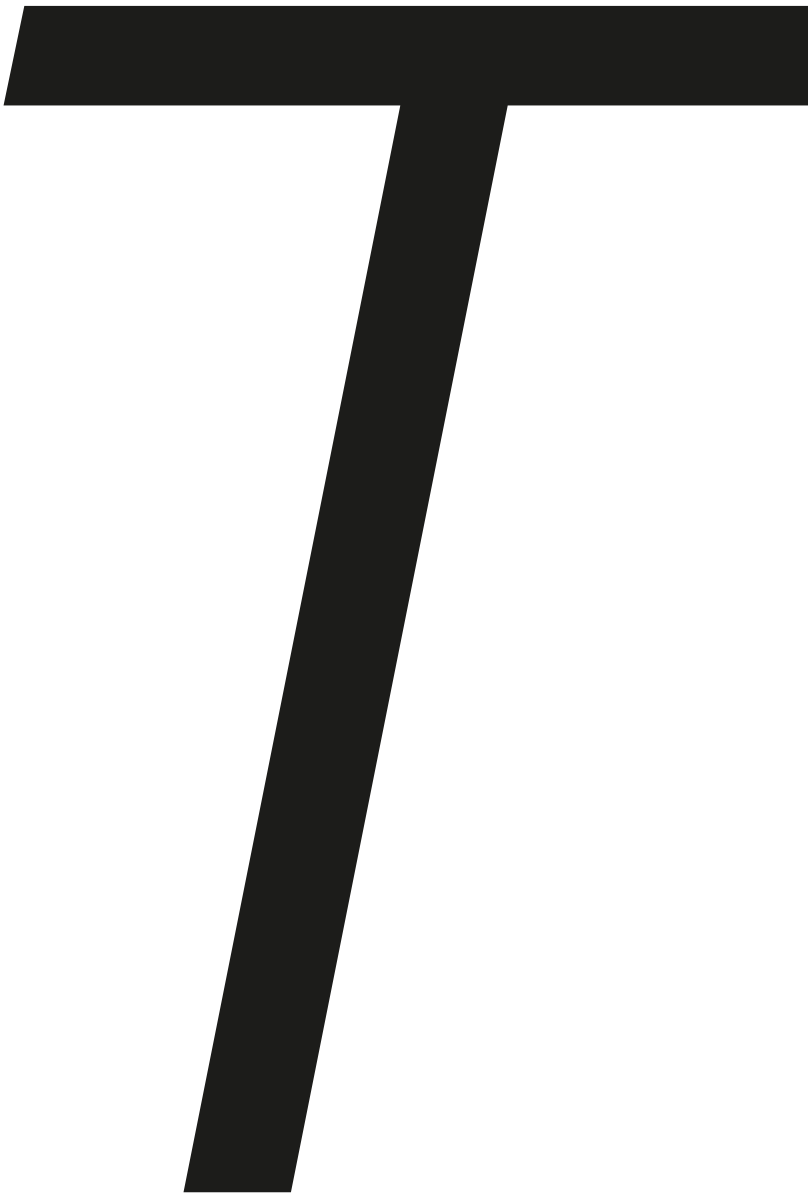

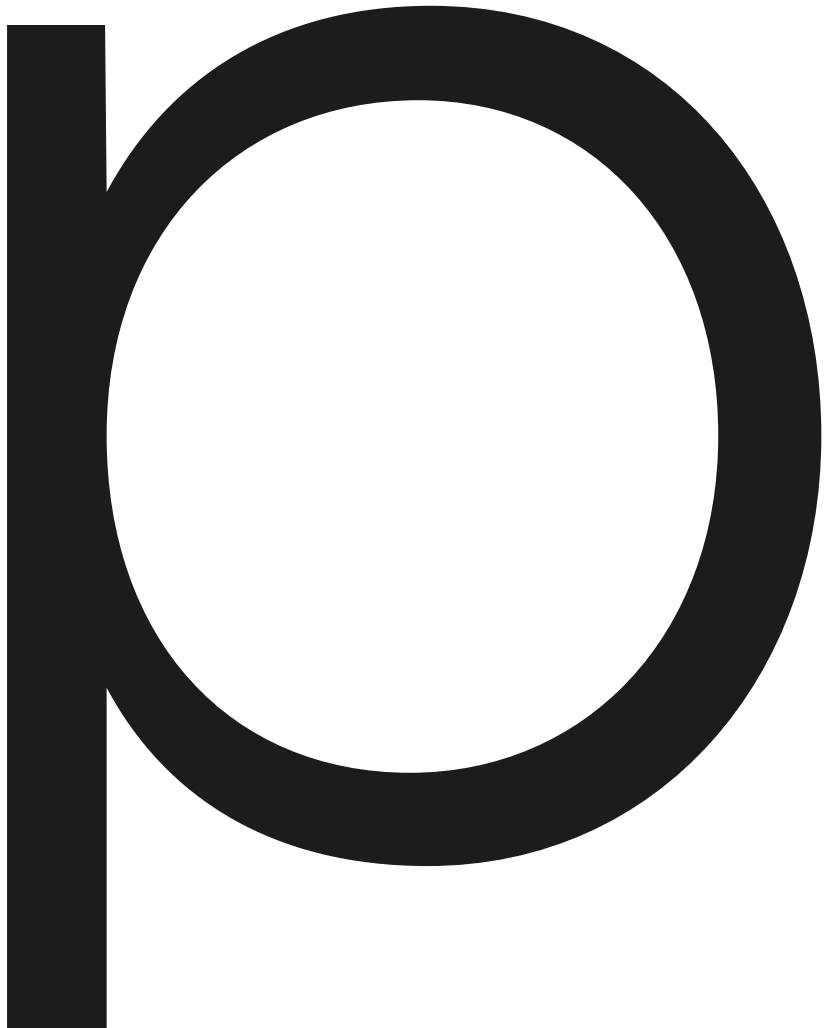

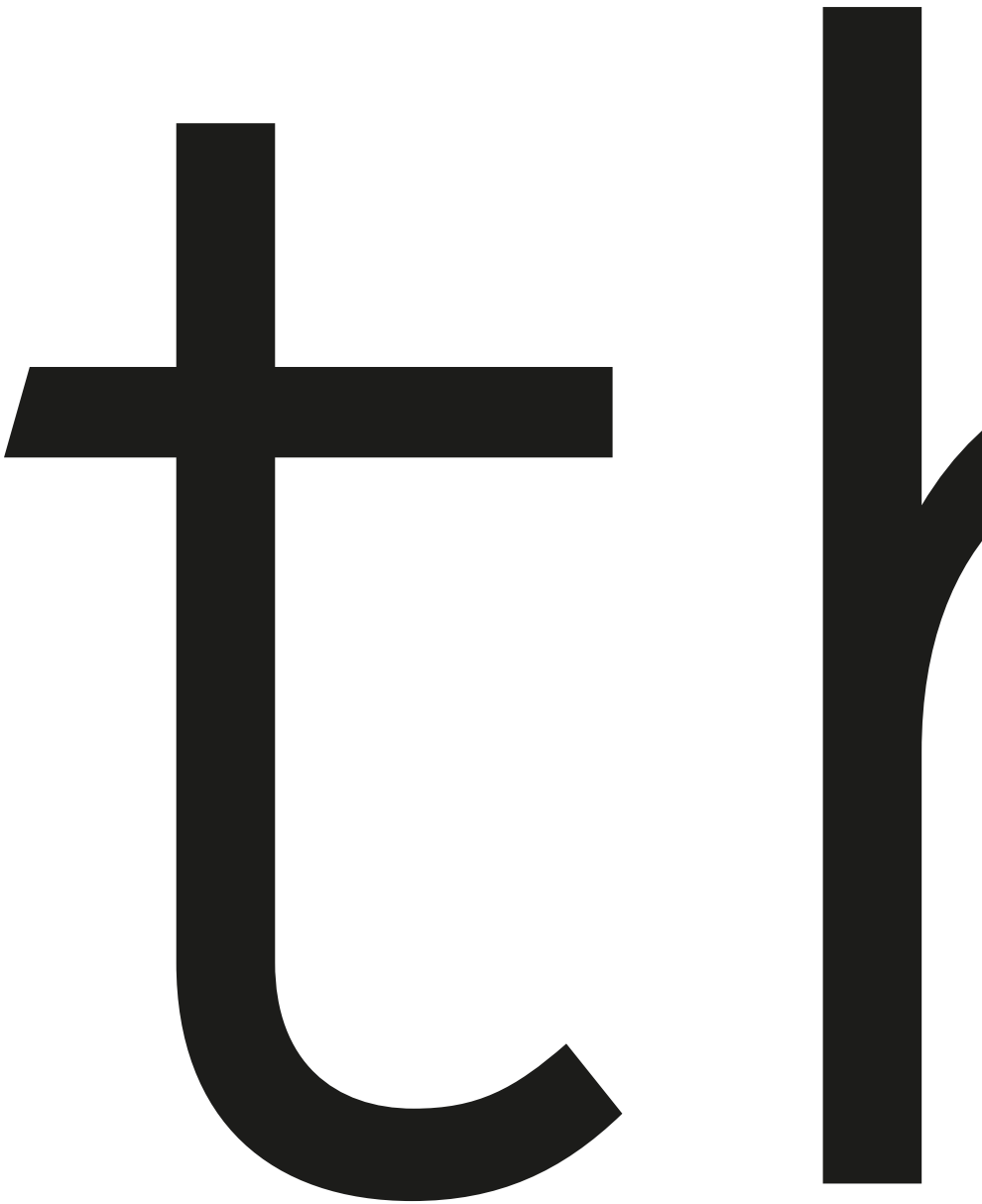

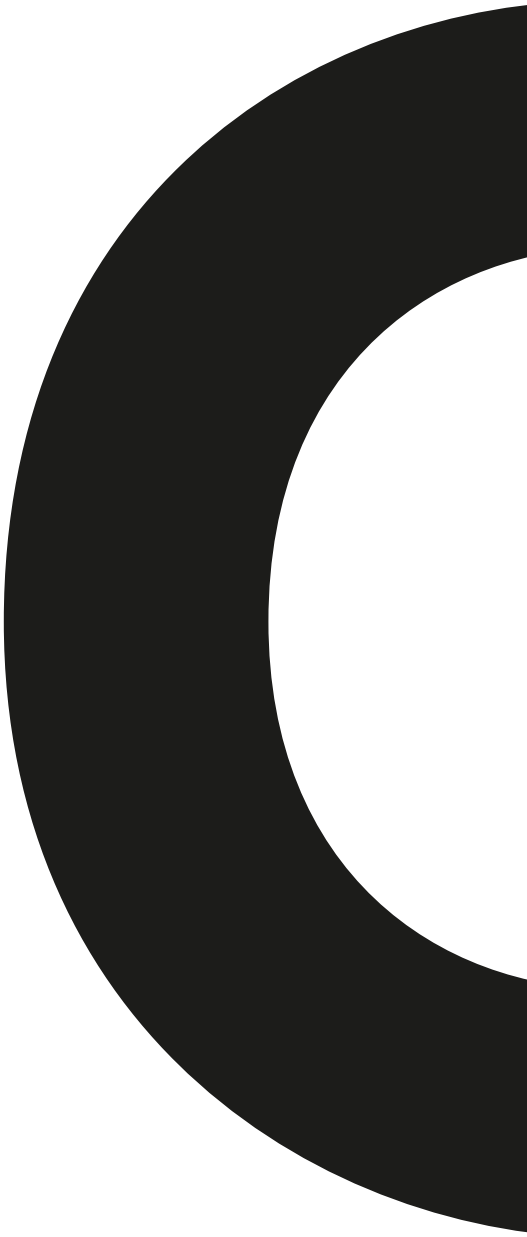

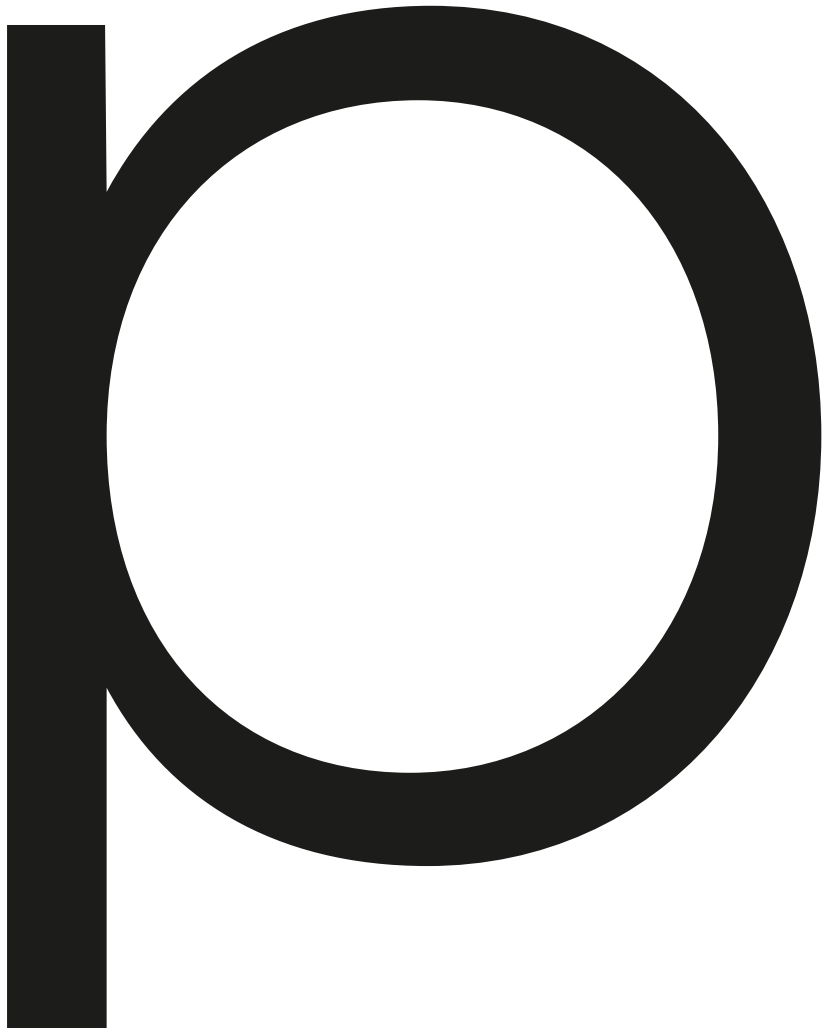

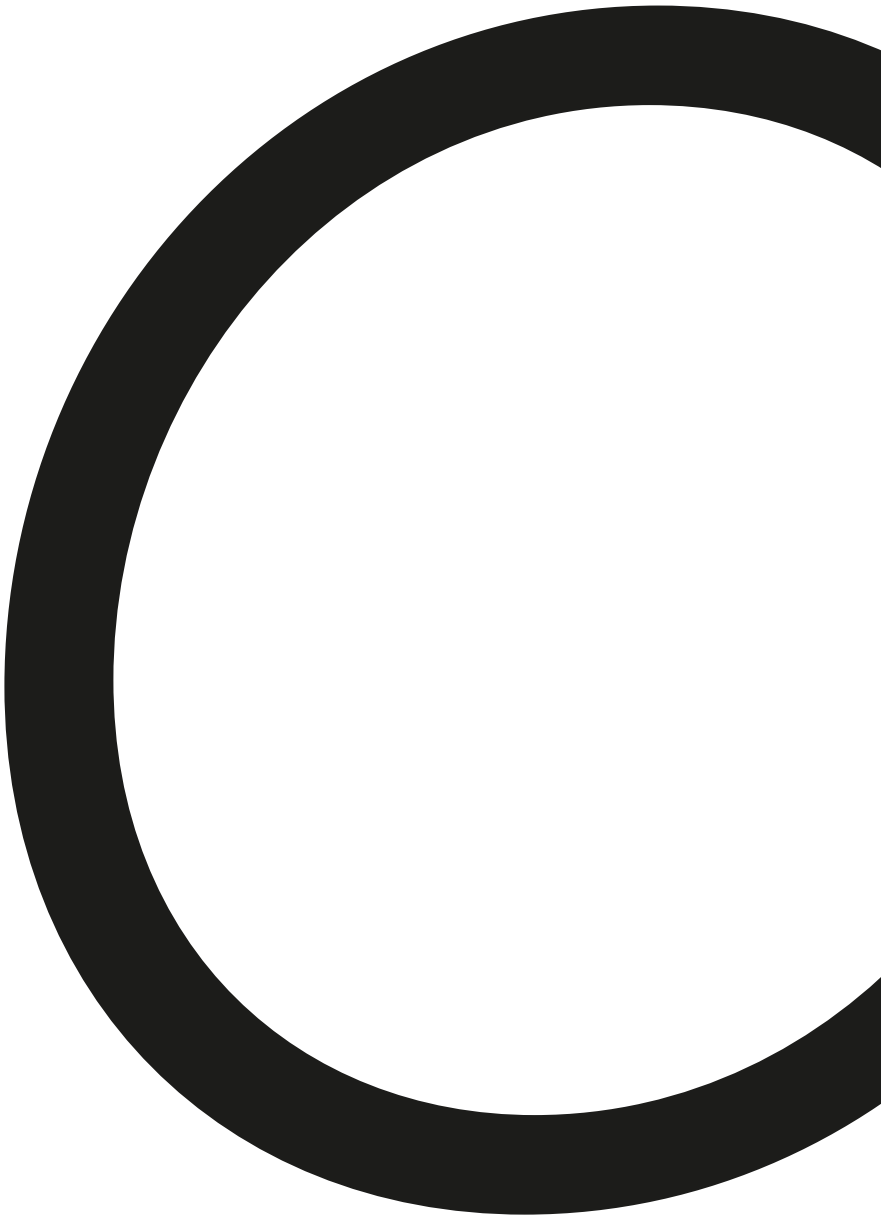

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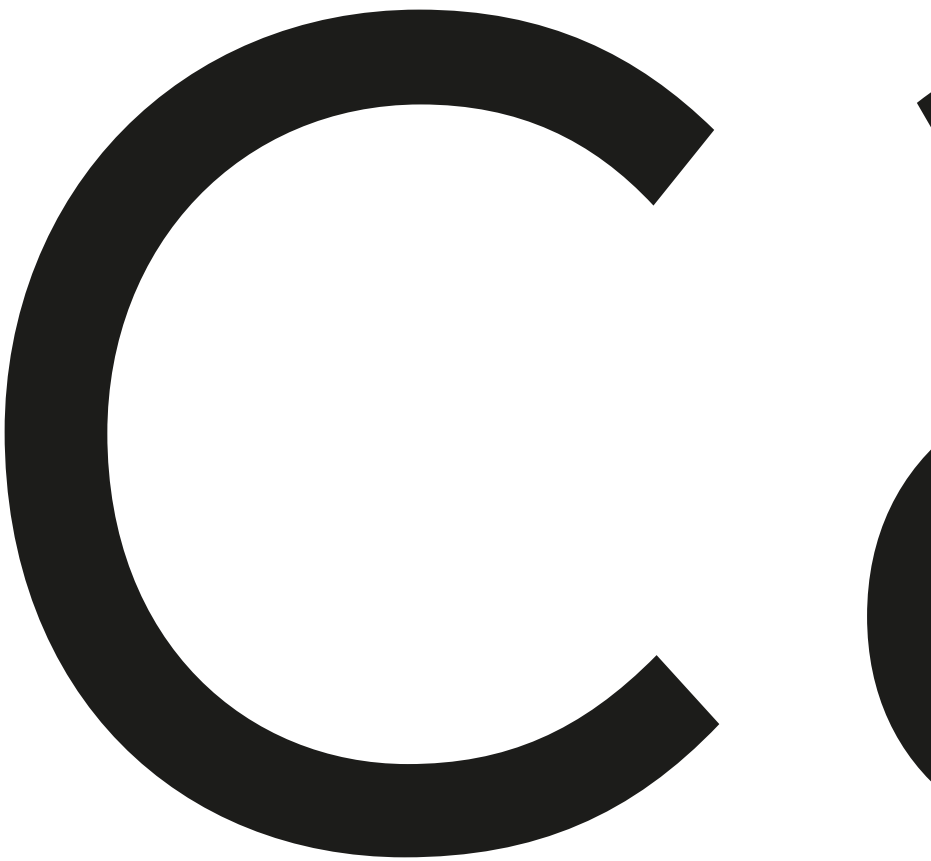

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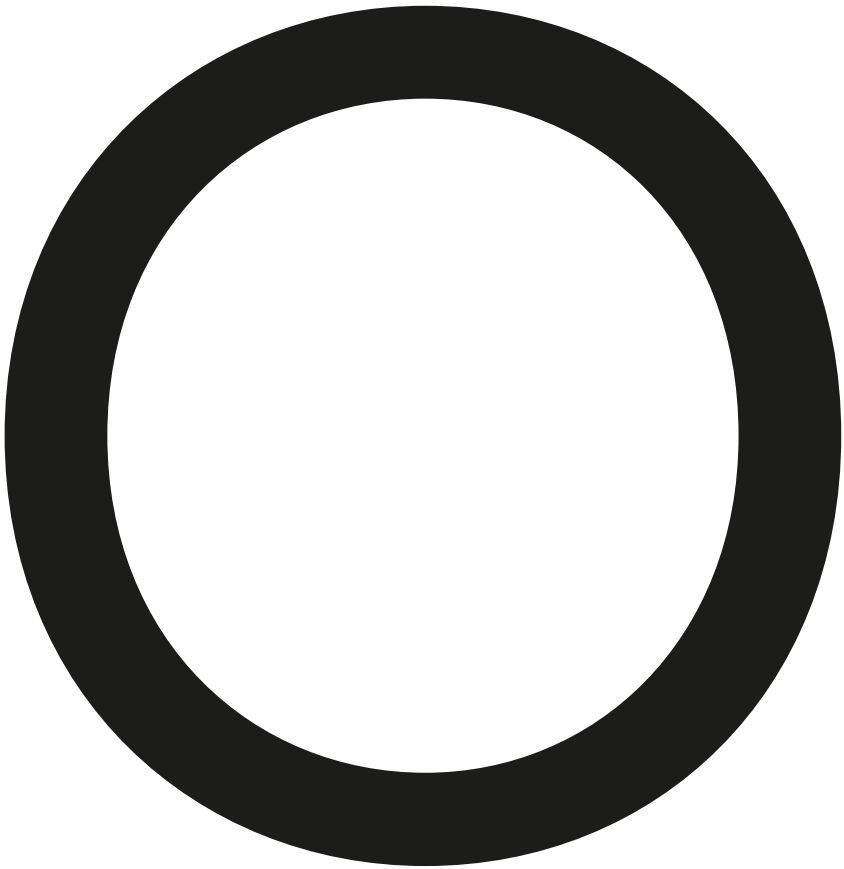

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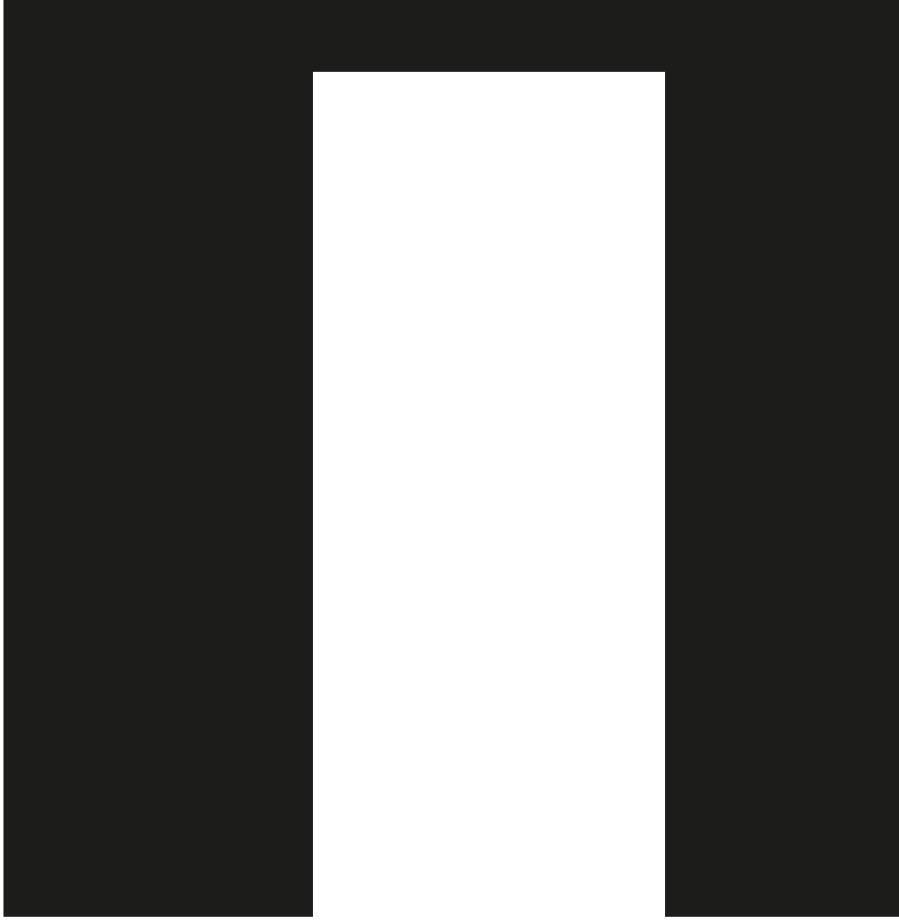

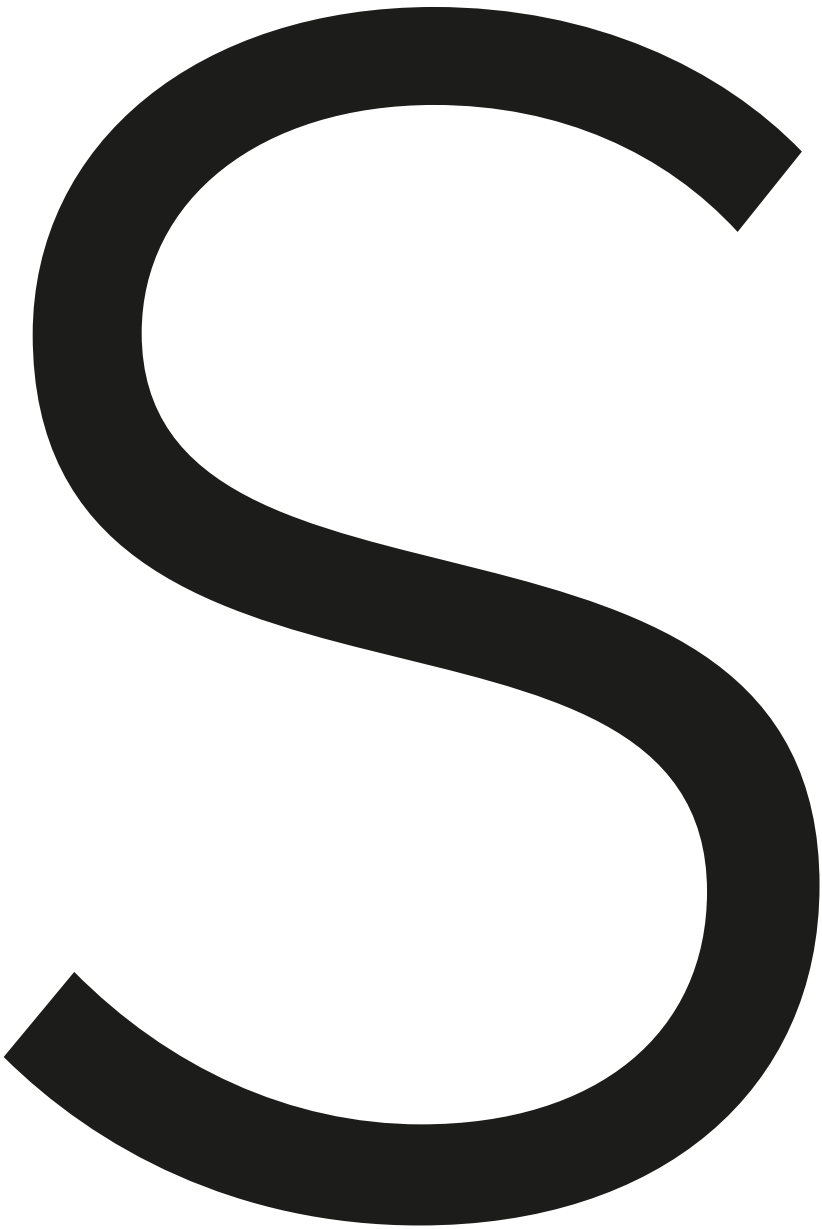

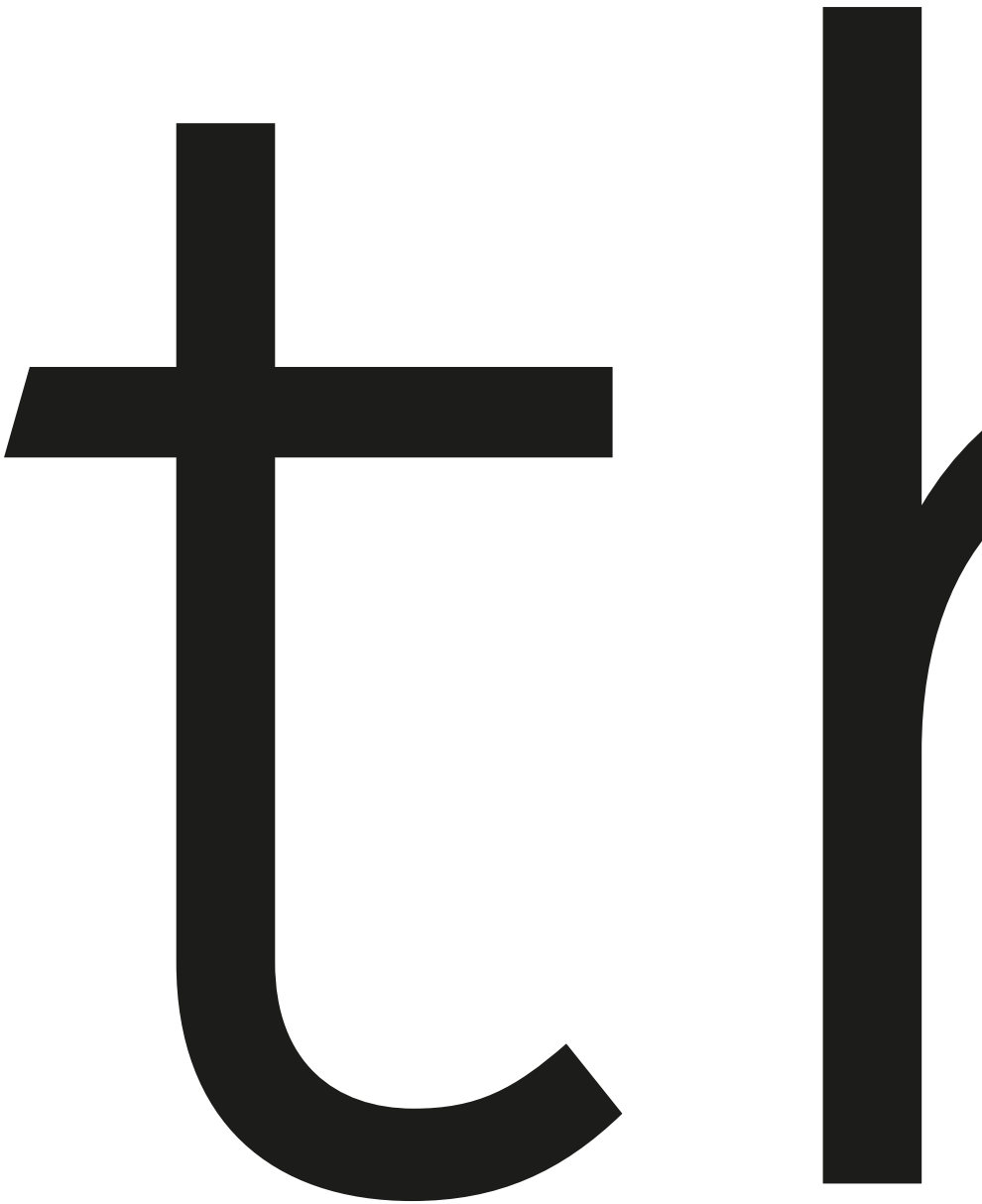

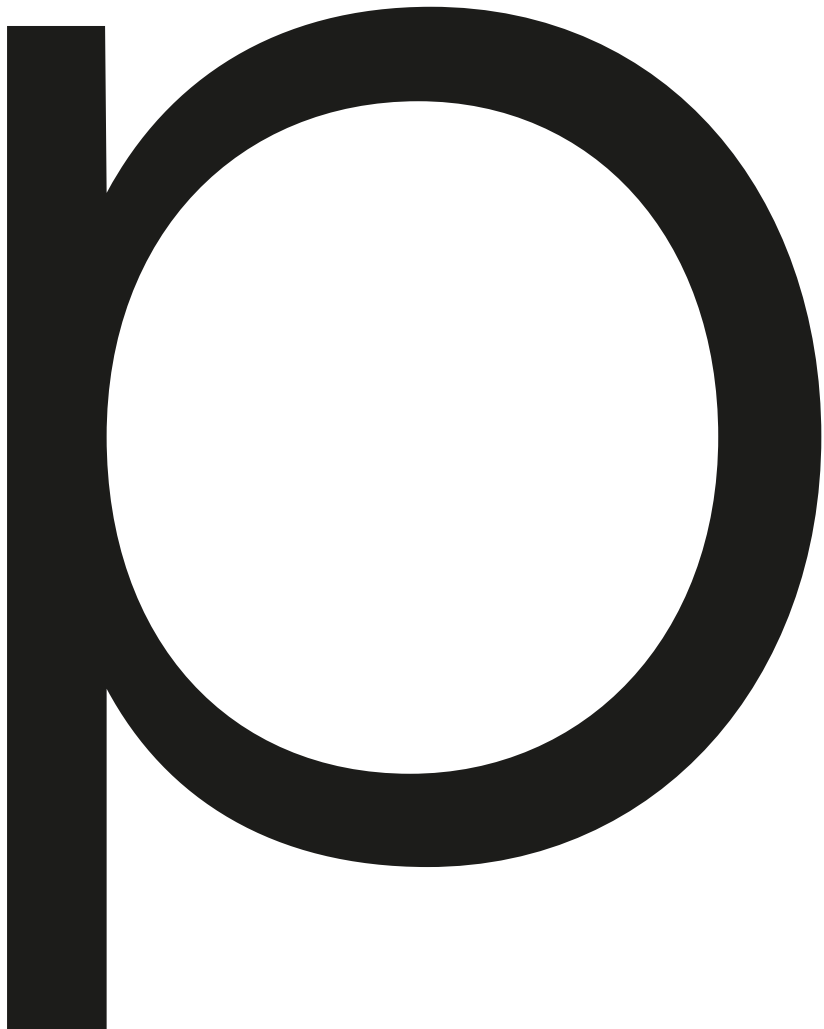

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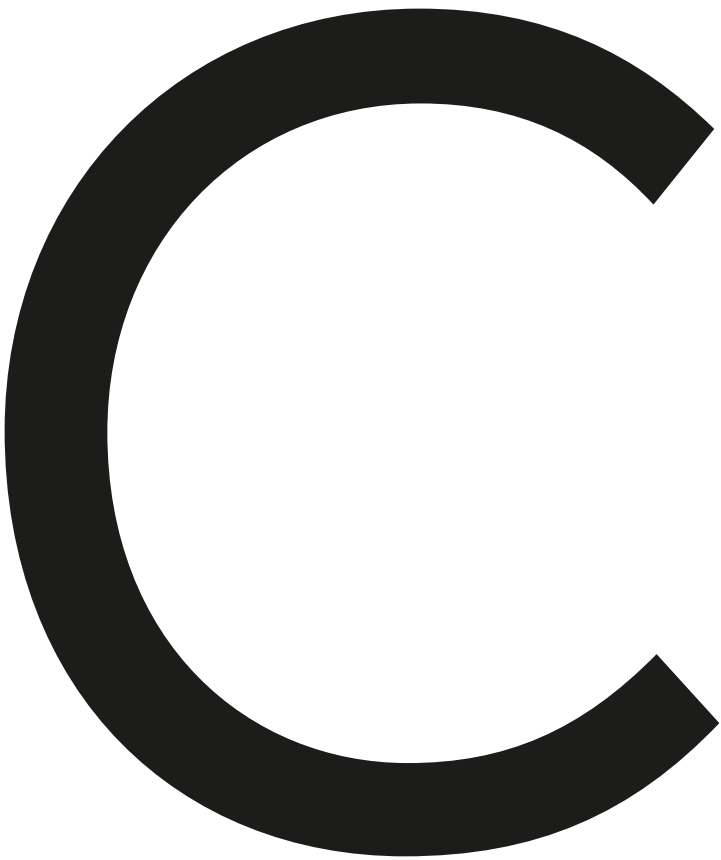

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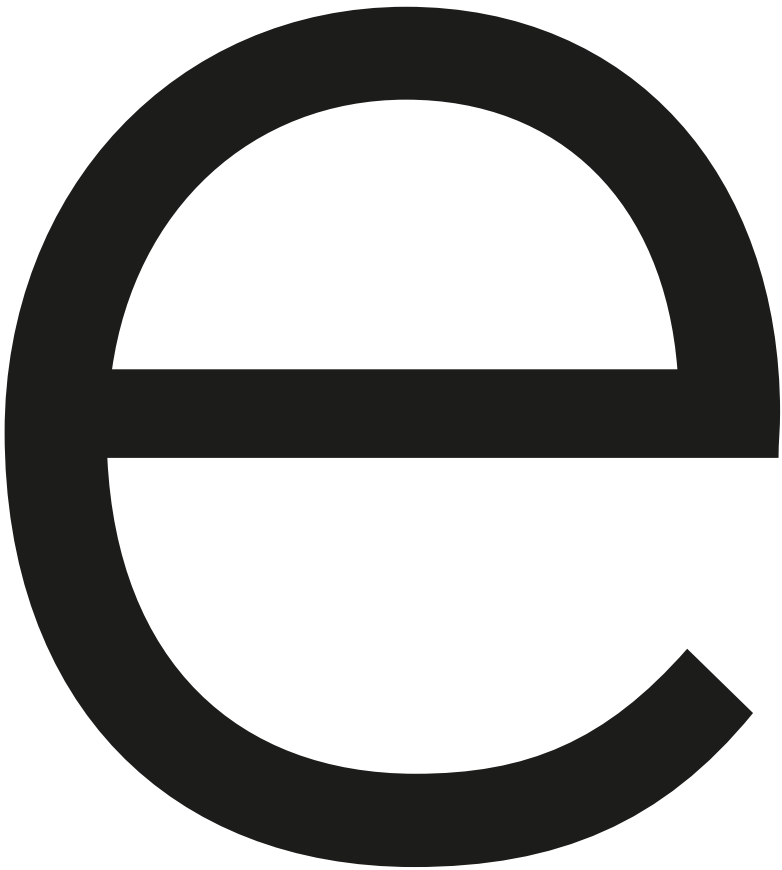

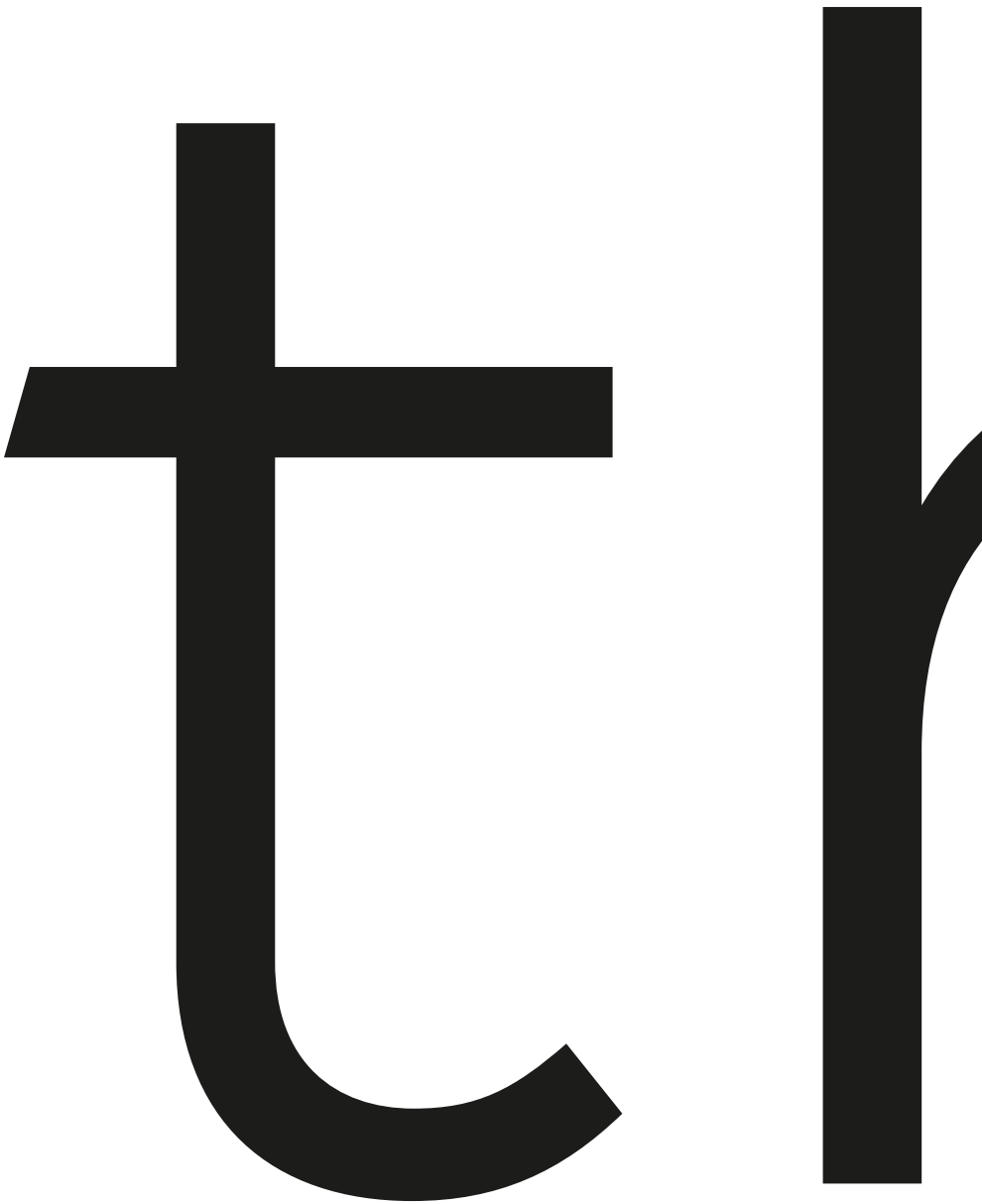

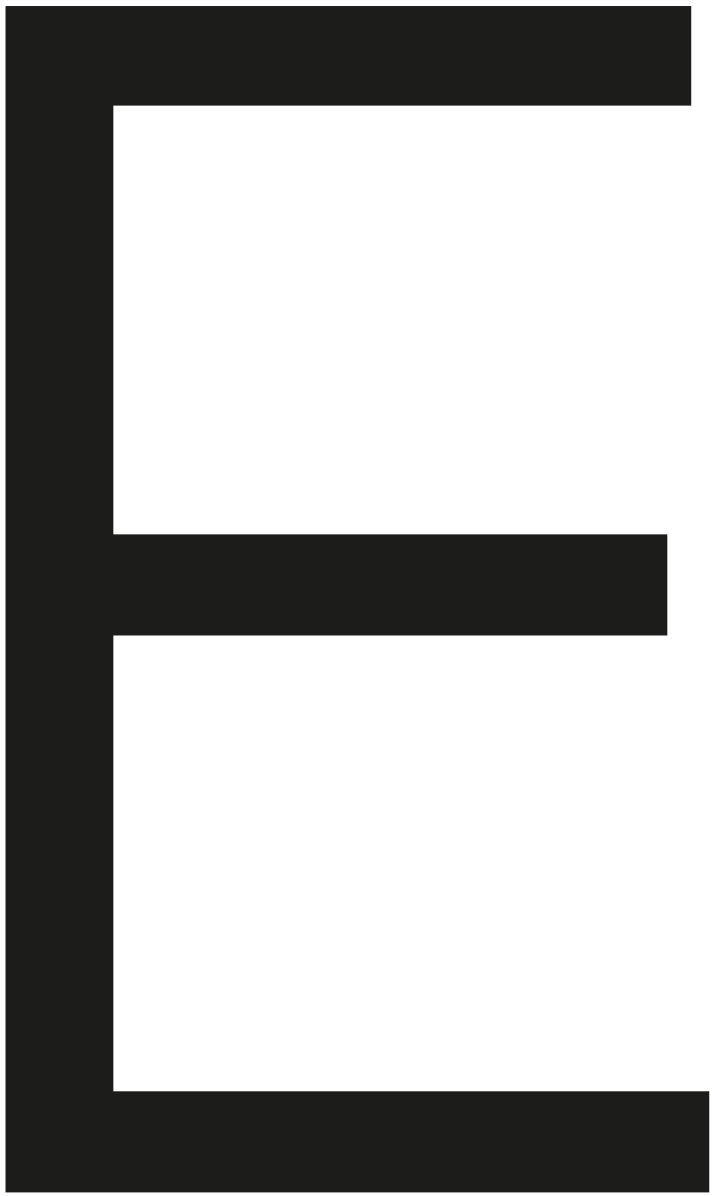

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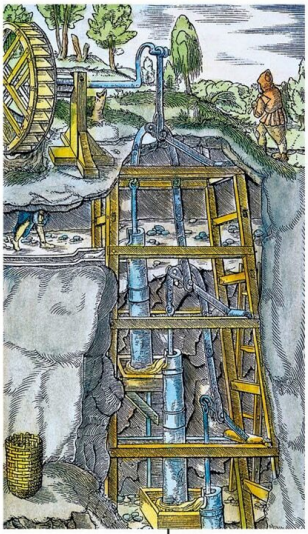

Howbeit, for easie alteratiõ of *equations*. I will propounde a fewe exãples, bicause the extraction of their rootes, maie the more aptly bee wrought. And to auoide the tediouse repetition of these woordes: is equalle to: I will sette as I doe often in woorke vse, a paire of paralleles, or Gemowe lines of one lengthe, thus: ═══, bicause noe. 2. thynges, can be moare equalle. And now marke these nombers.

14.2. — + — .15.9 ═══ 71.9.

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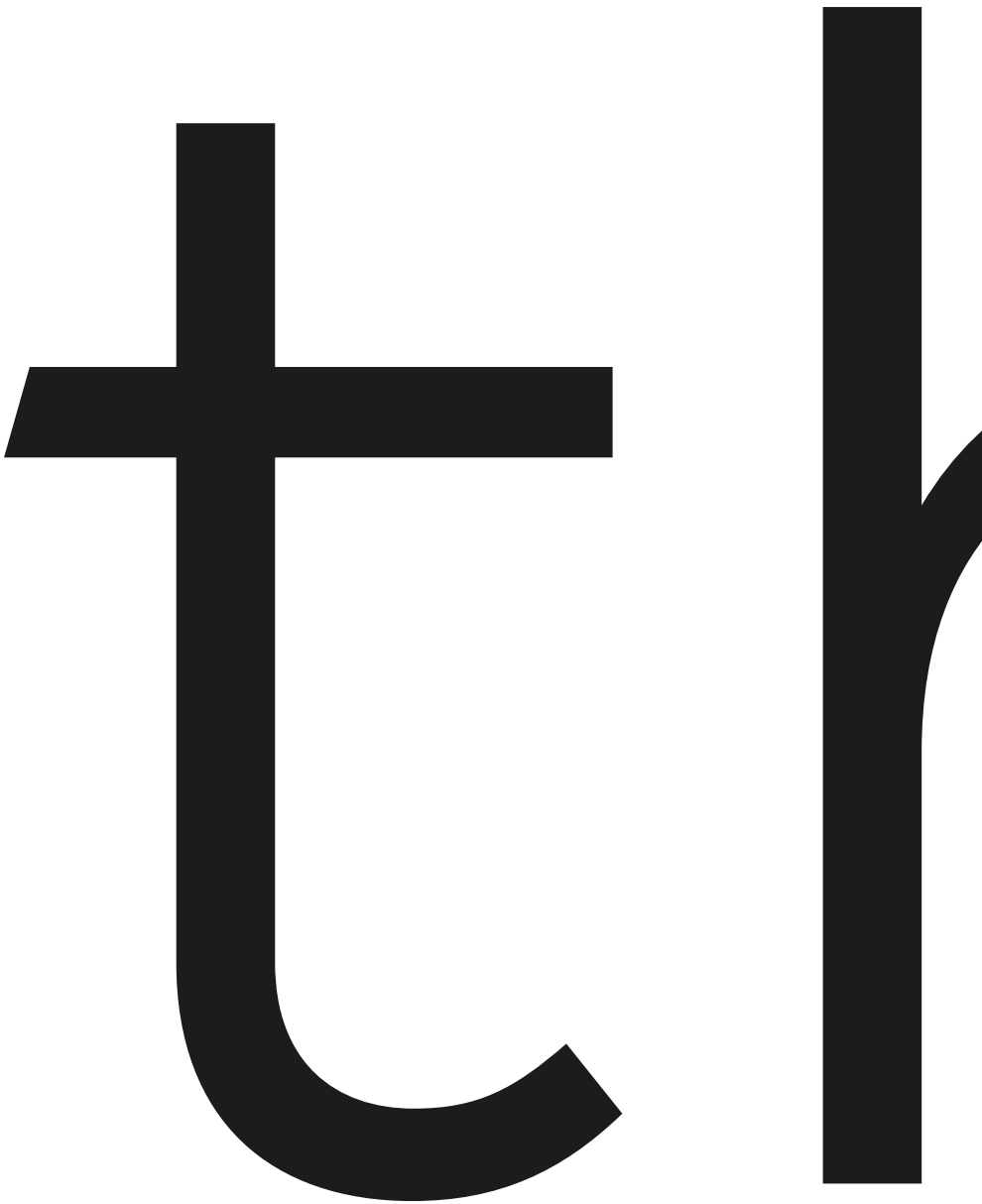

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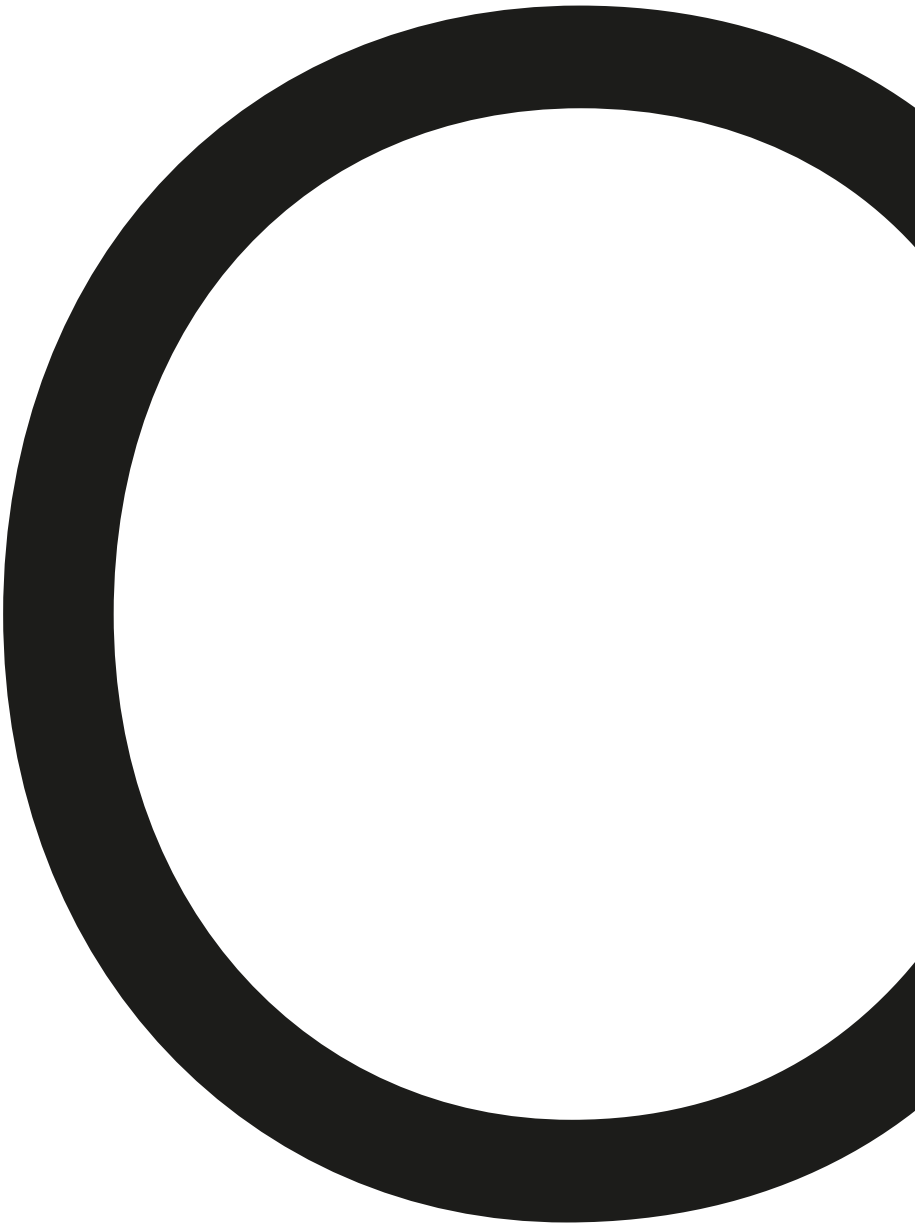

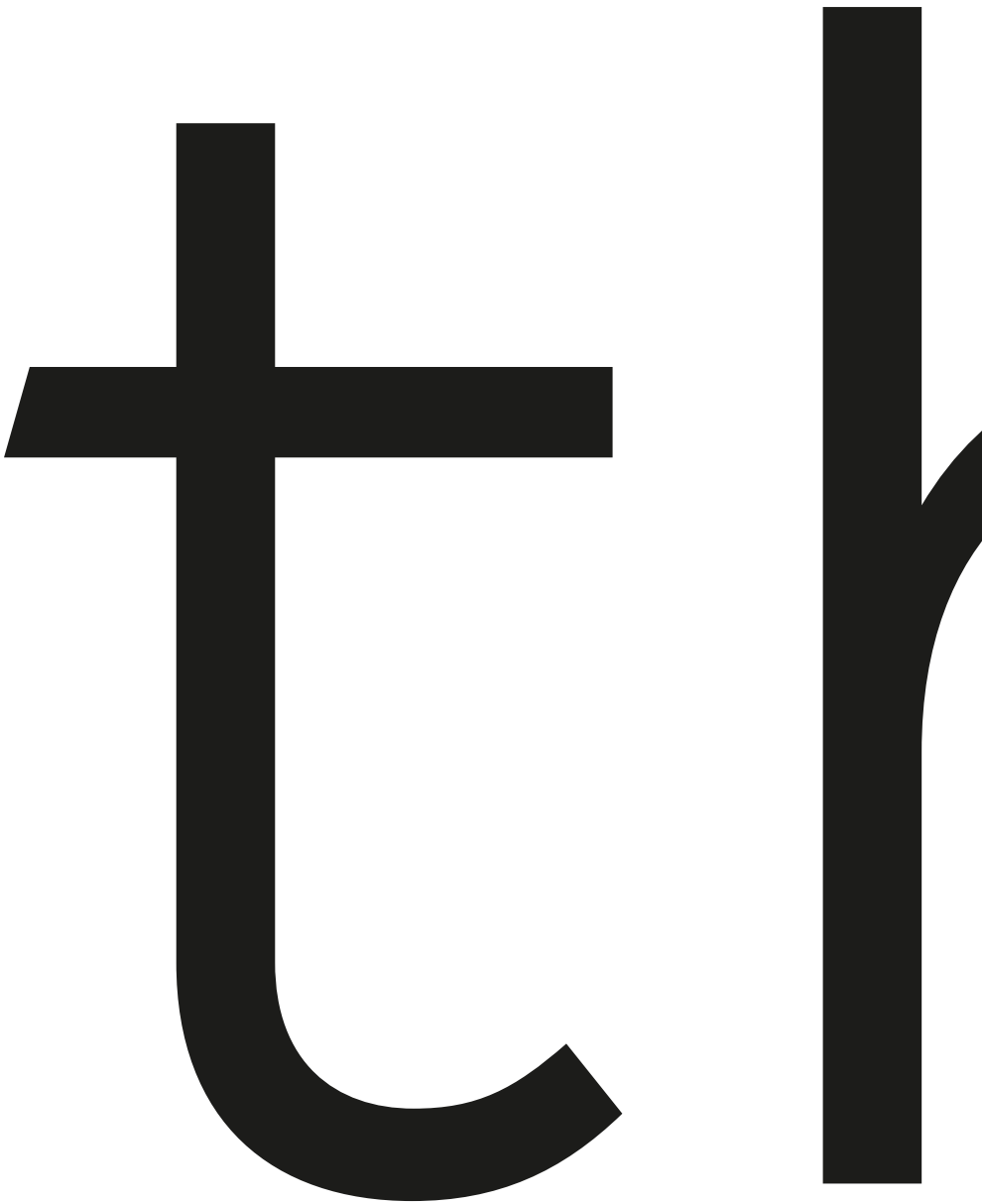

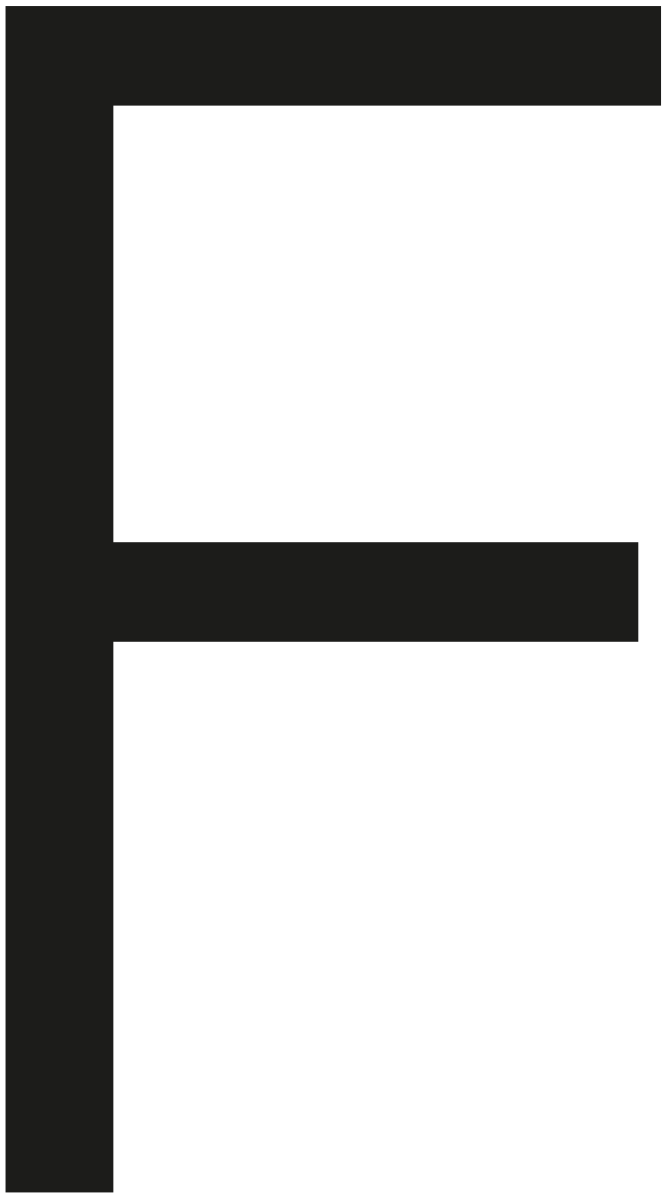

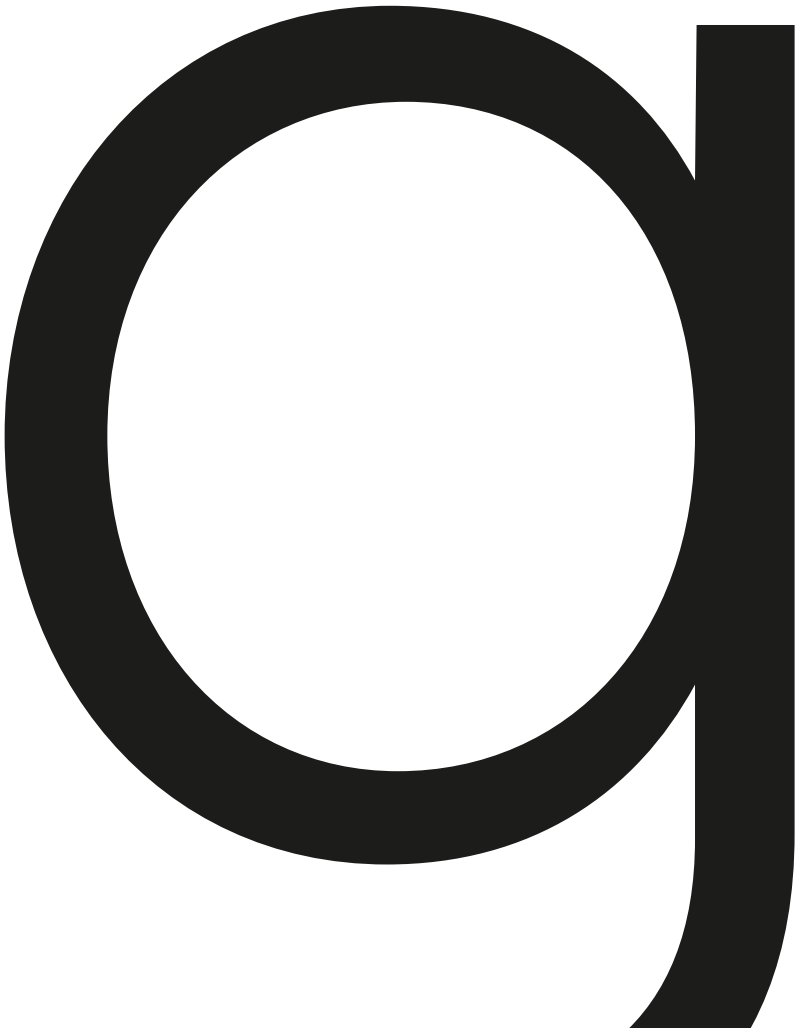

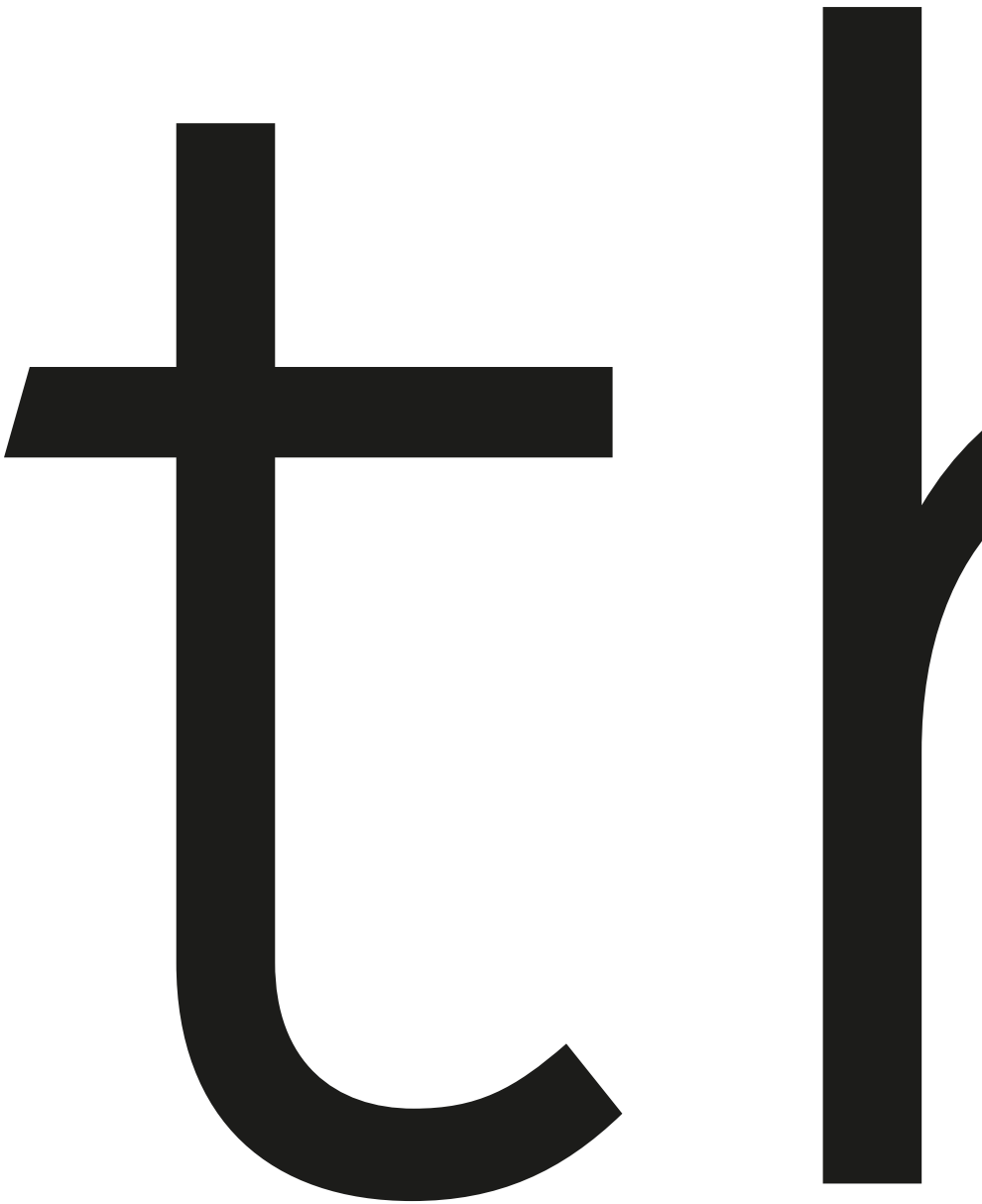

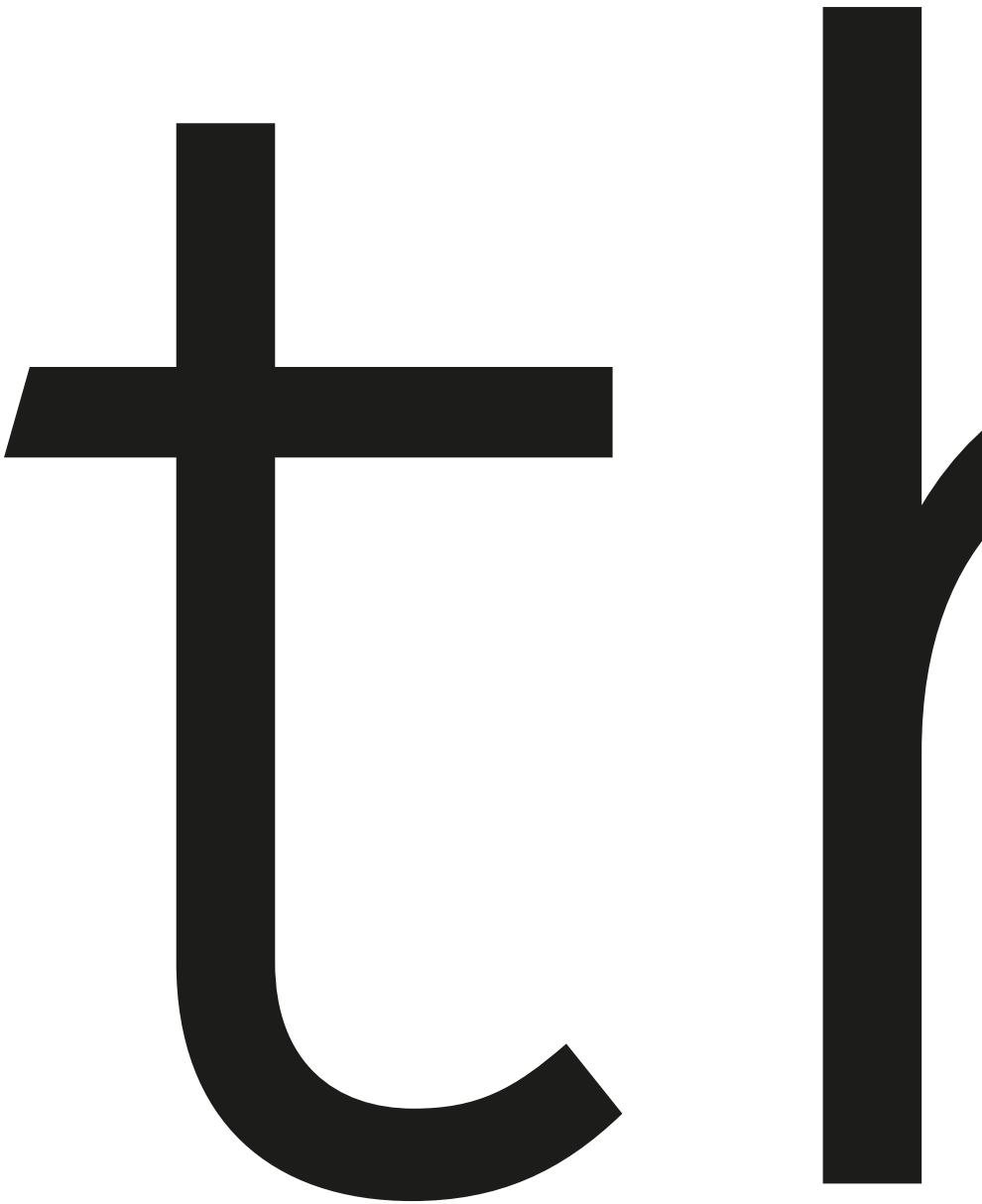

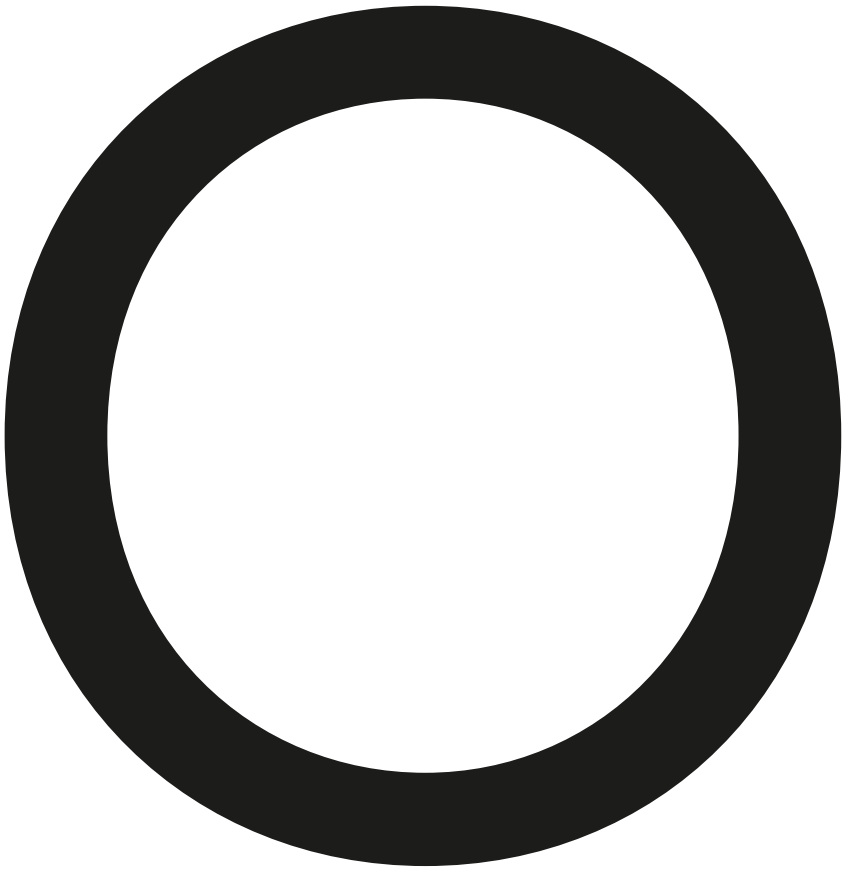

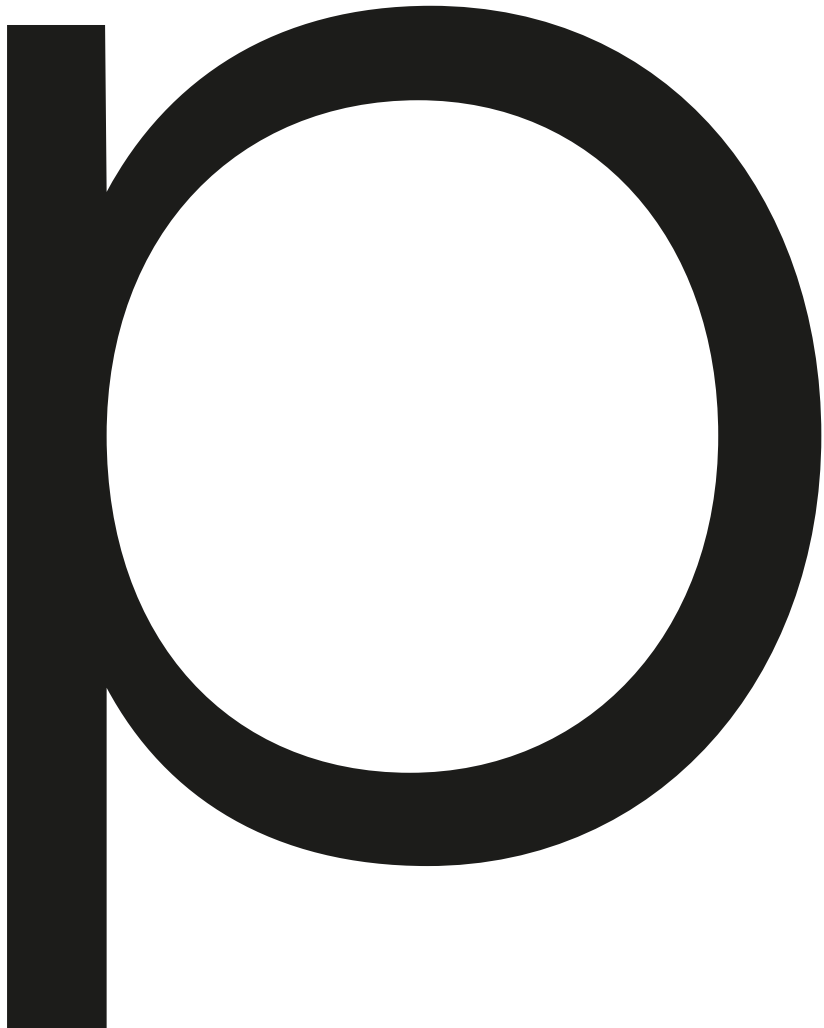

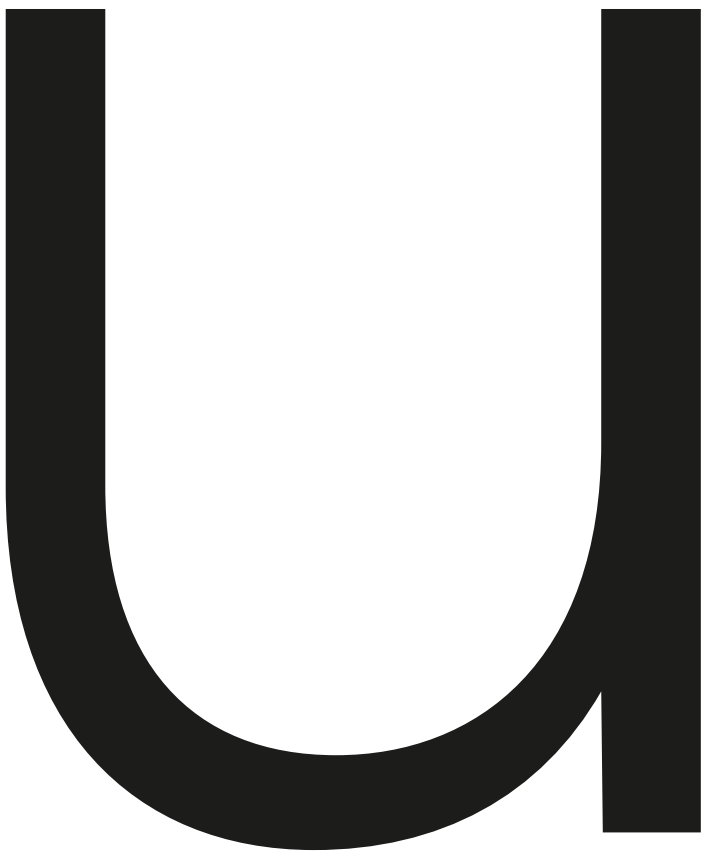

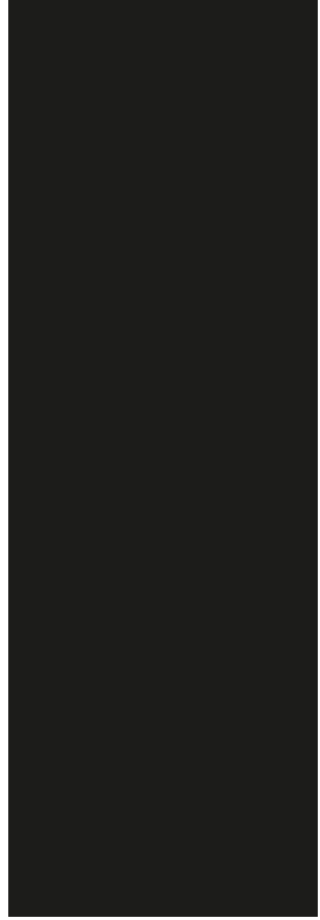

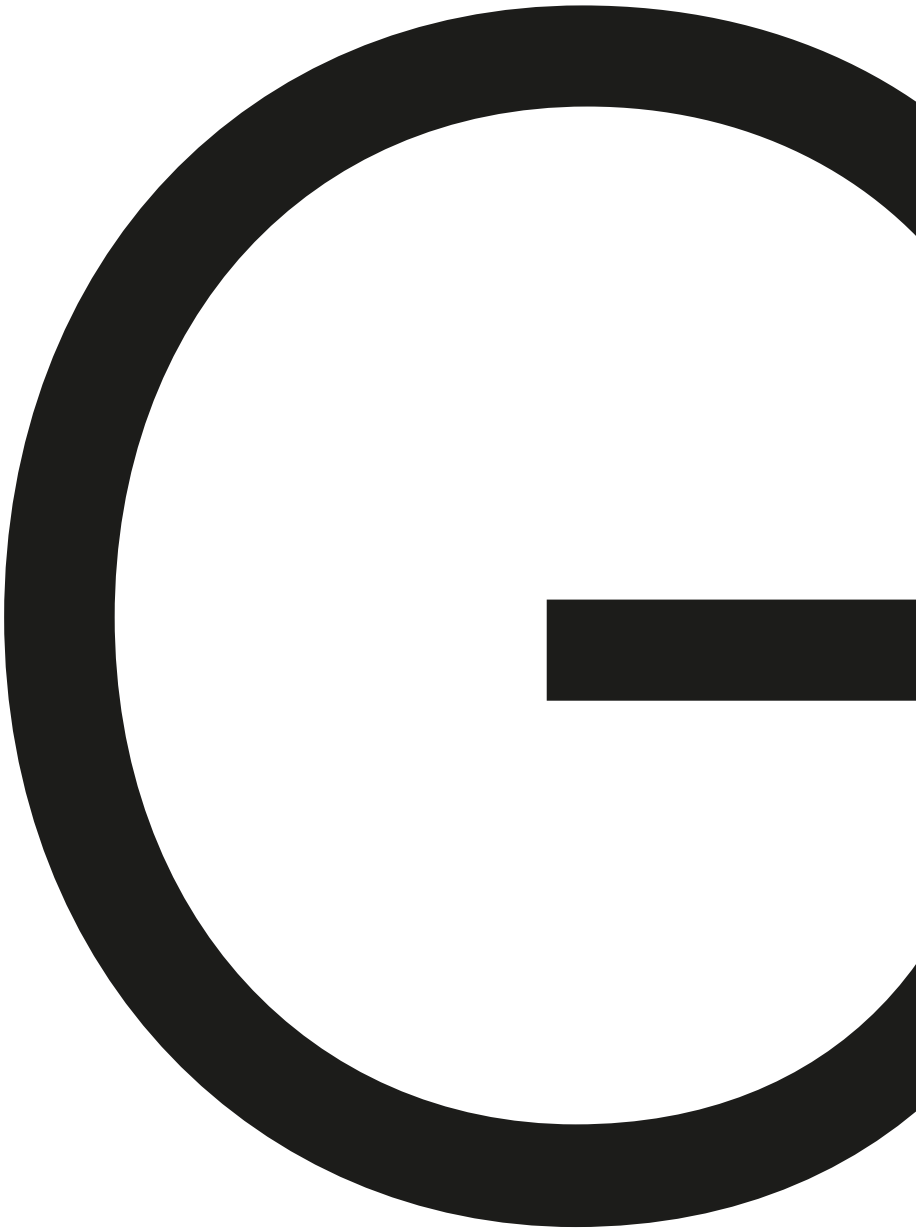

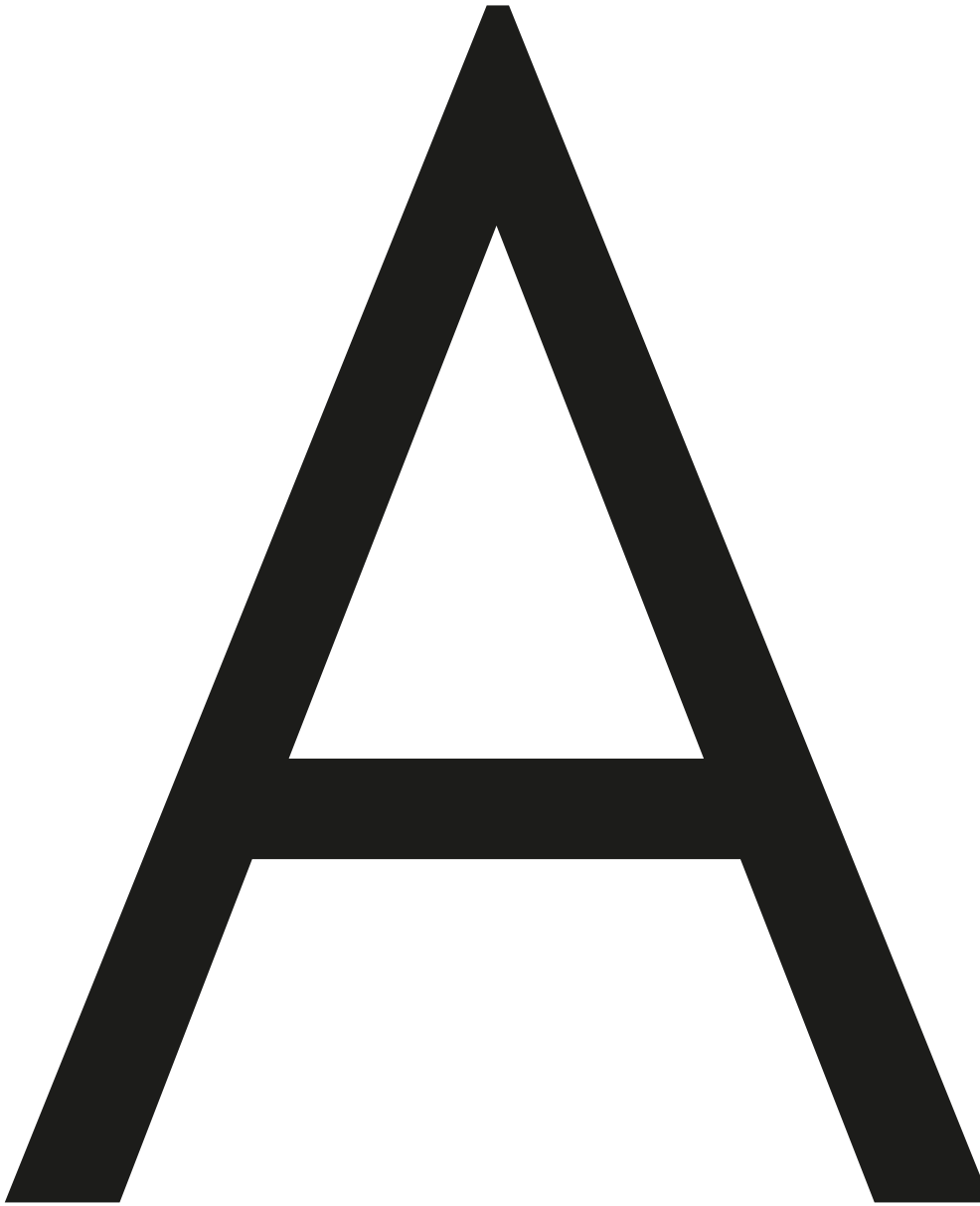

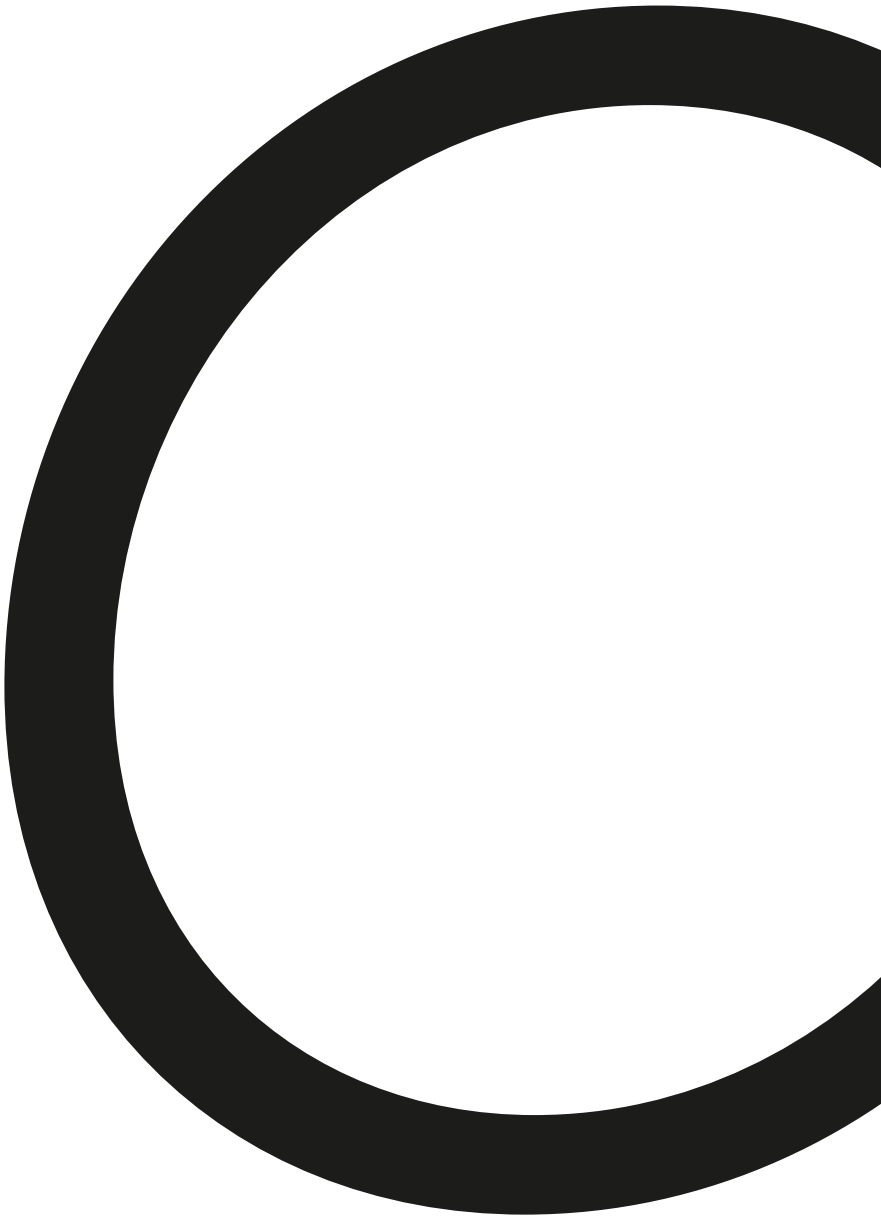

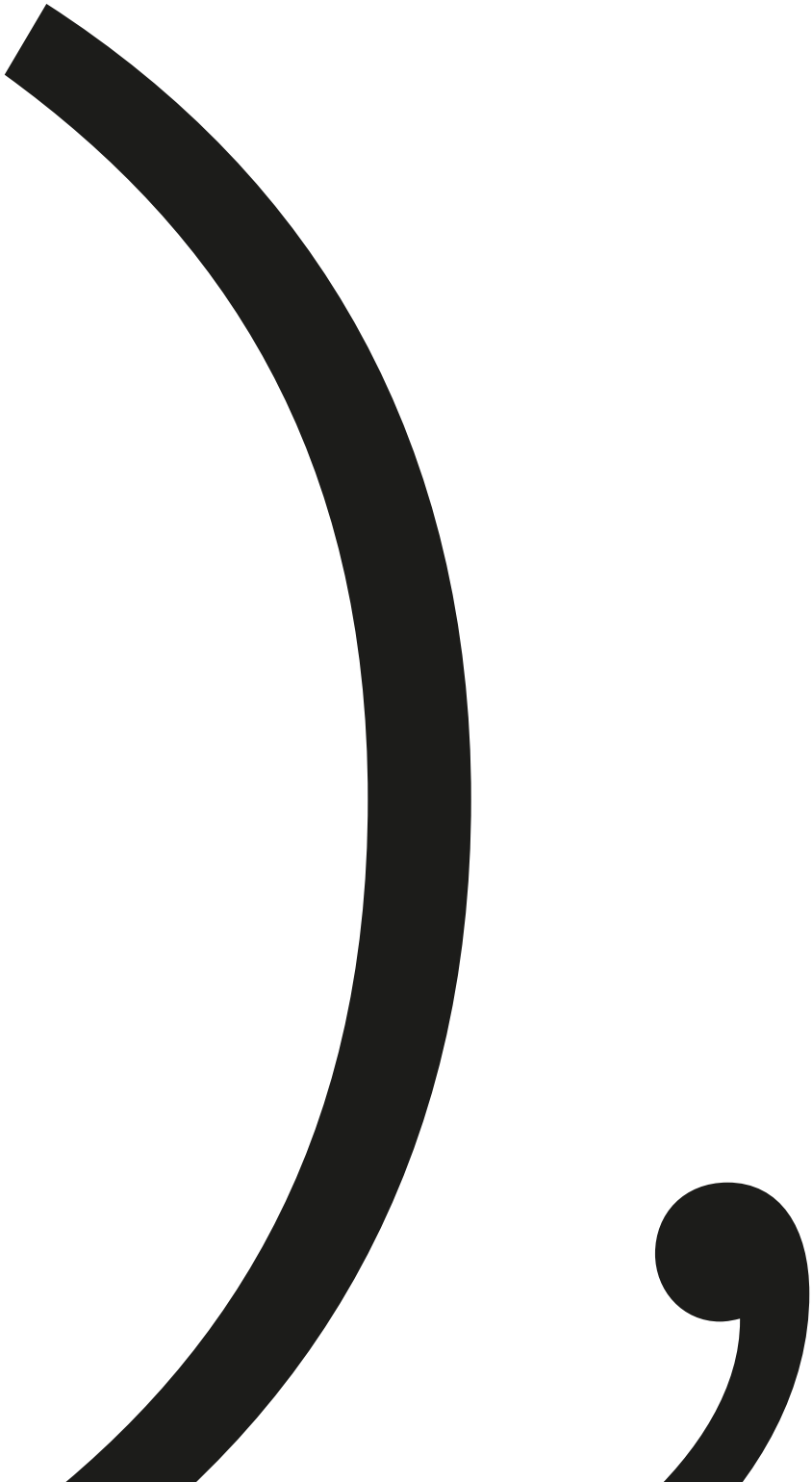

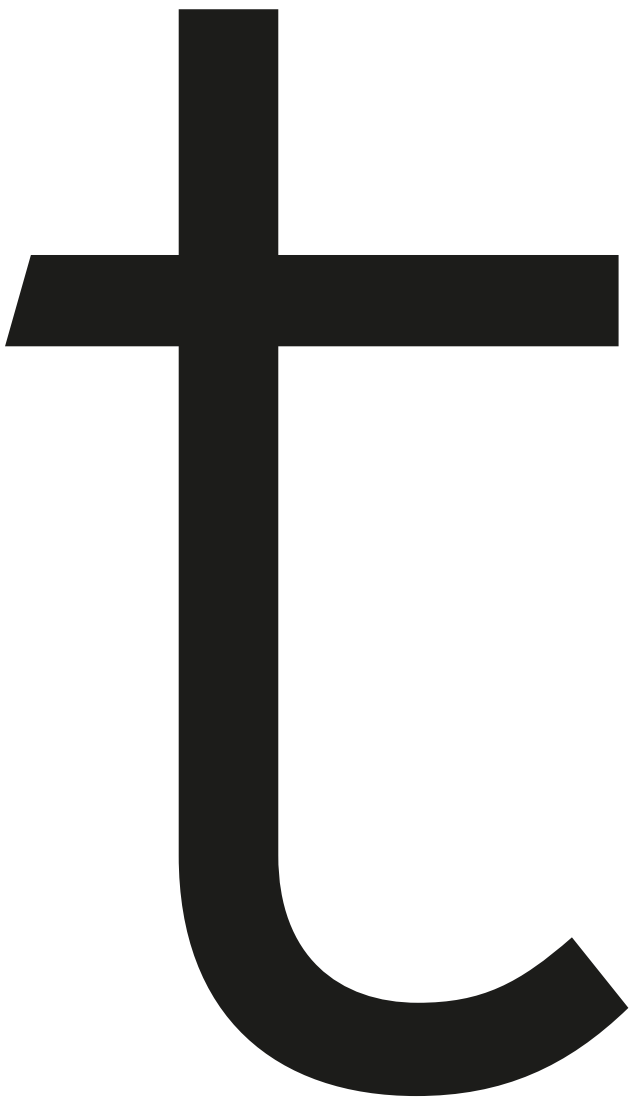

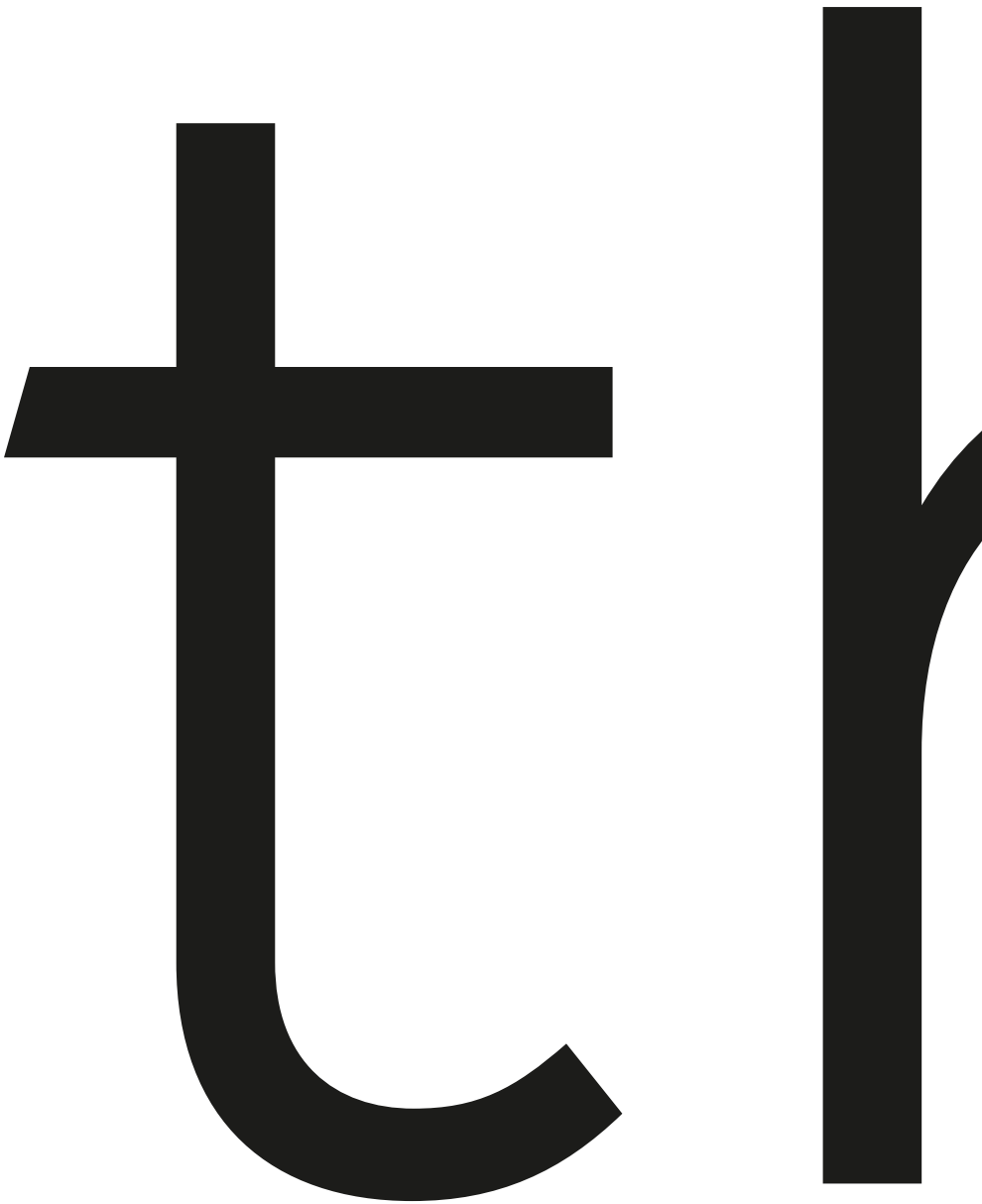

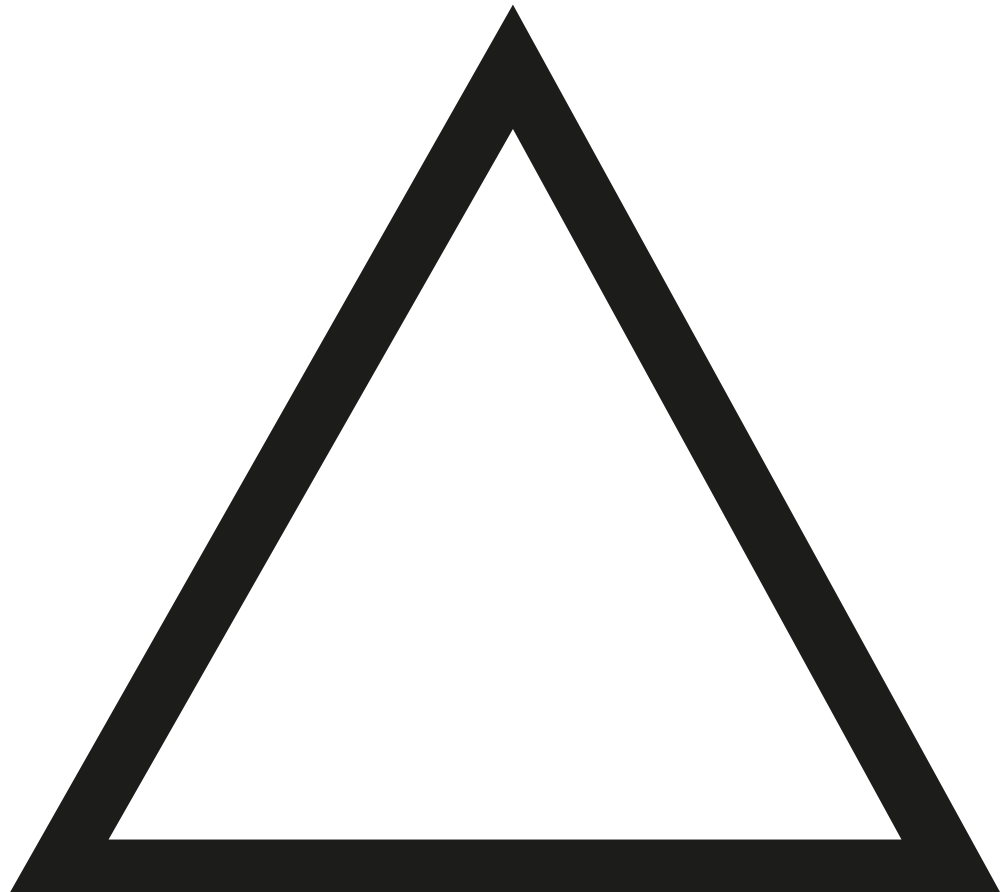

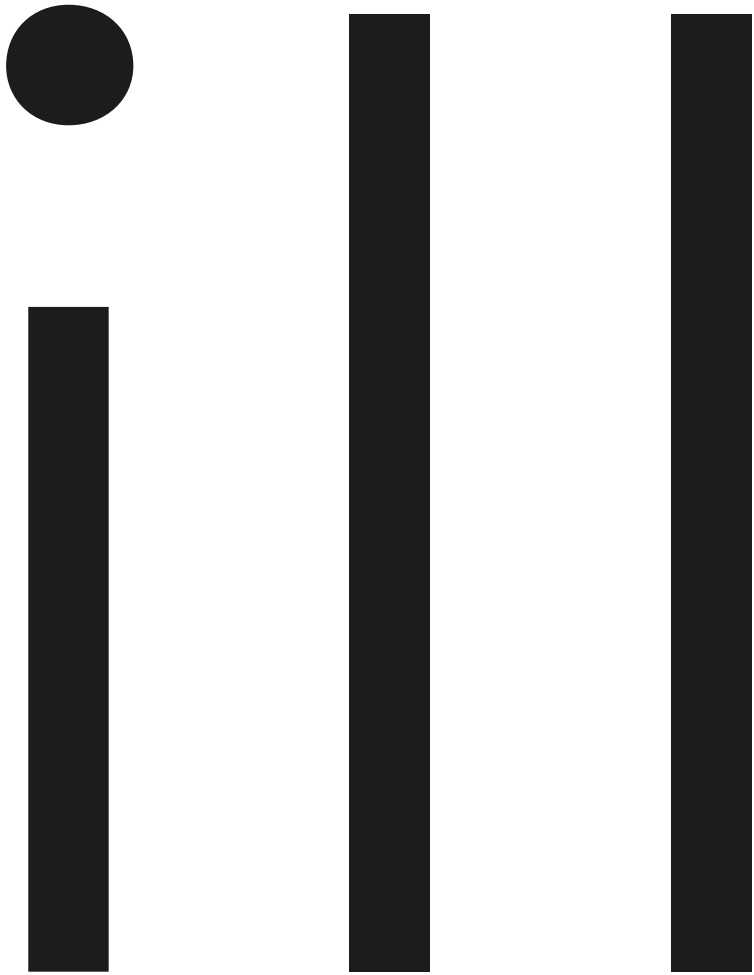

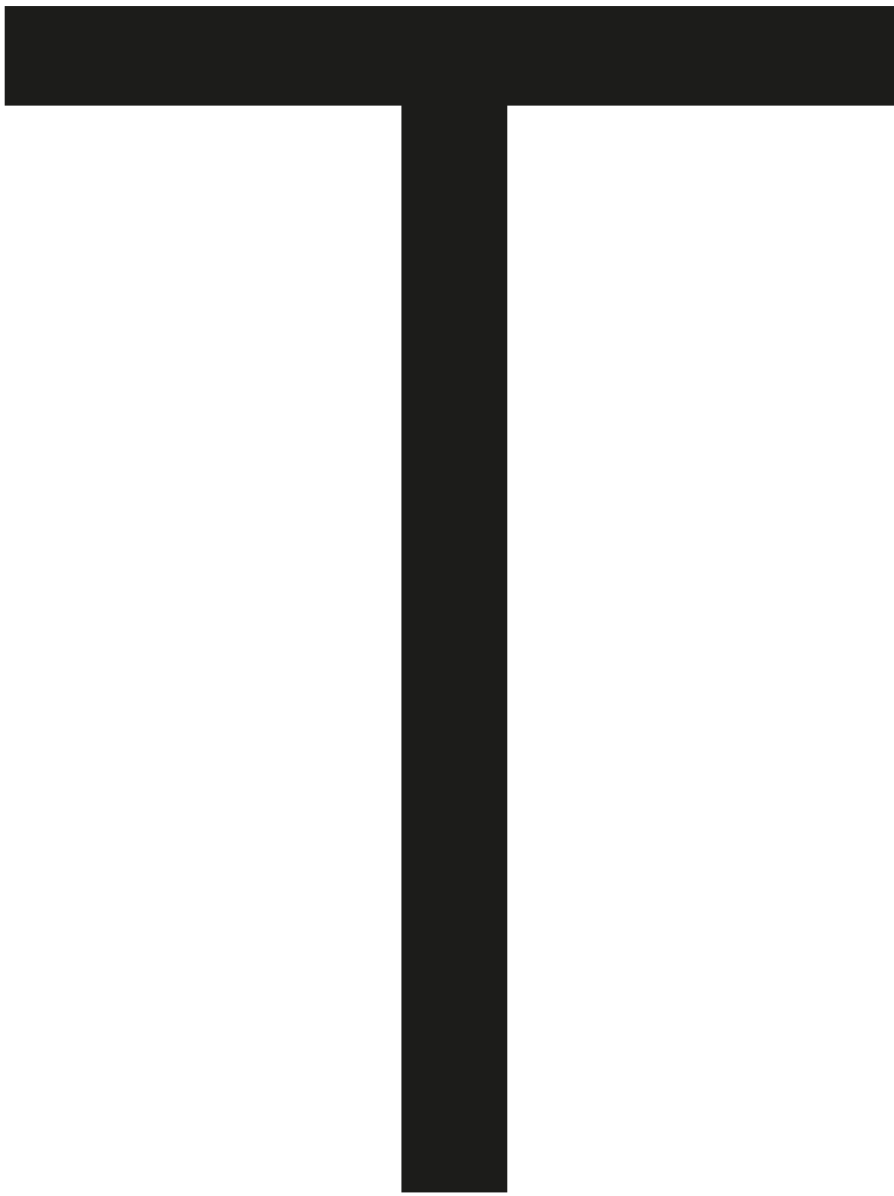

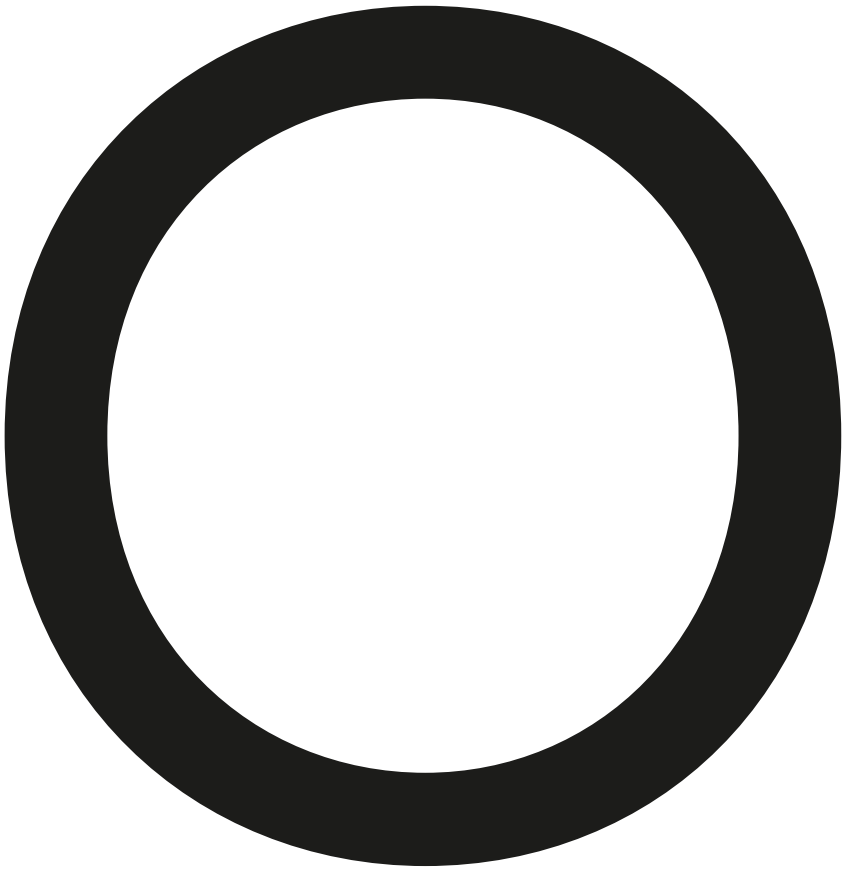

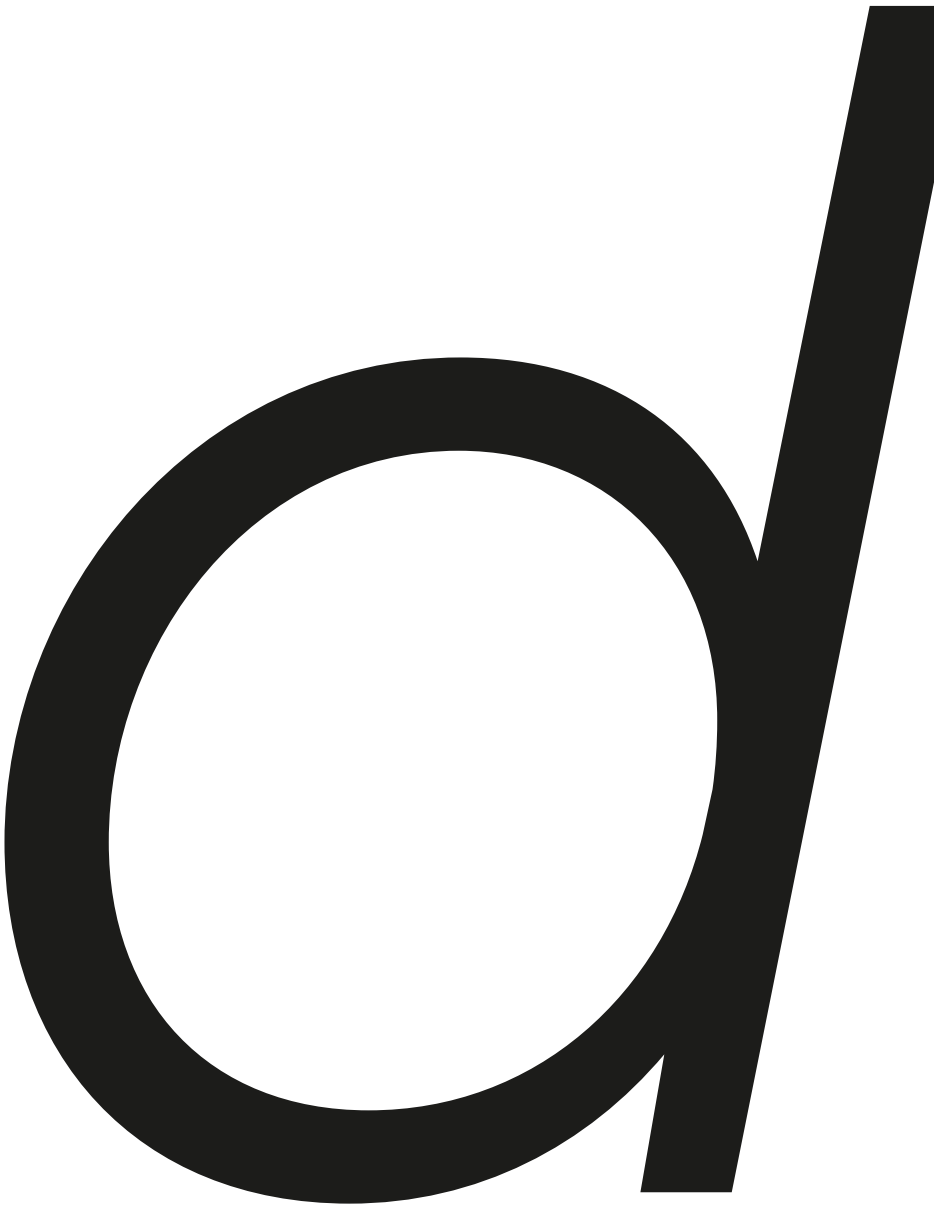

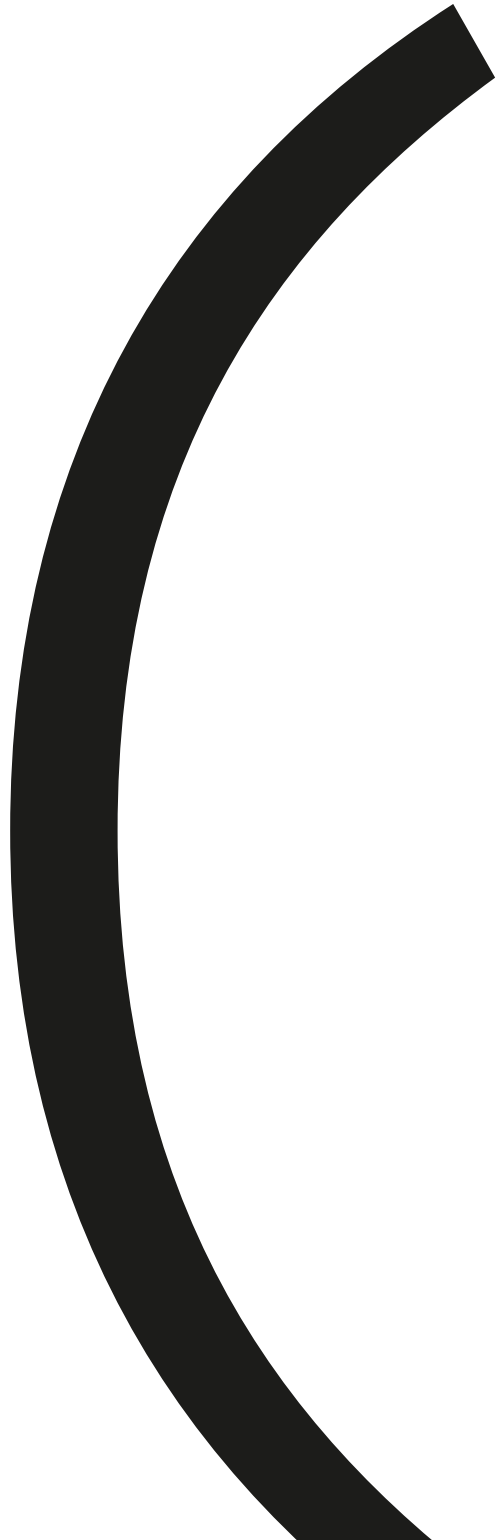

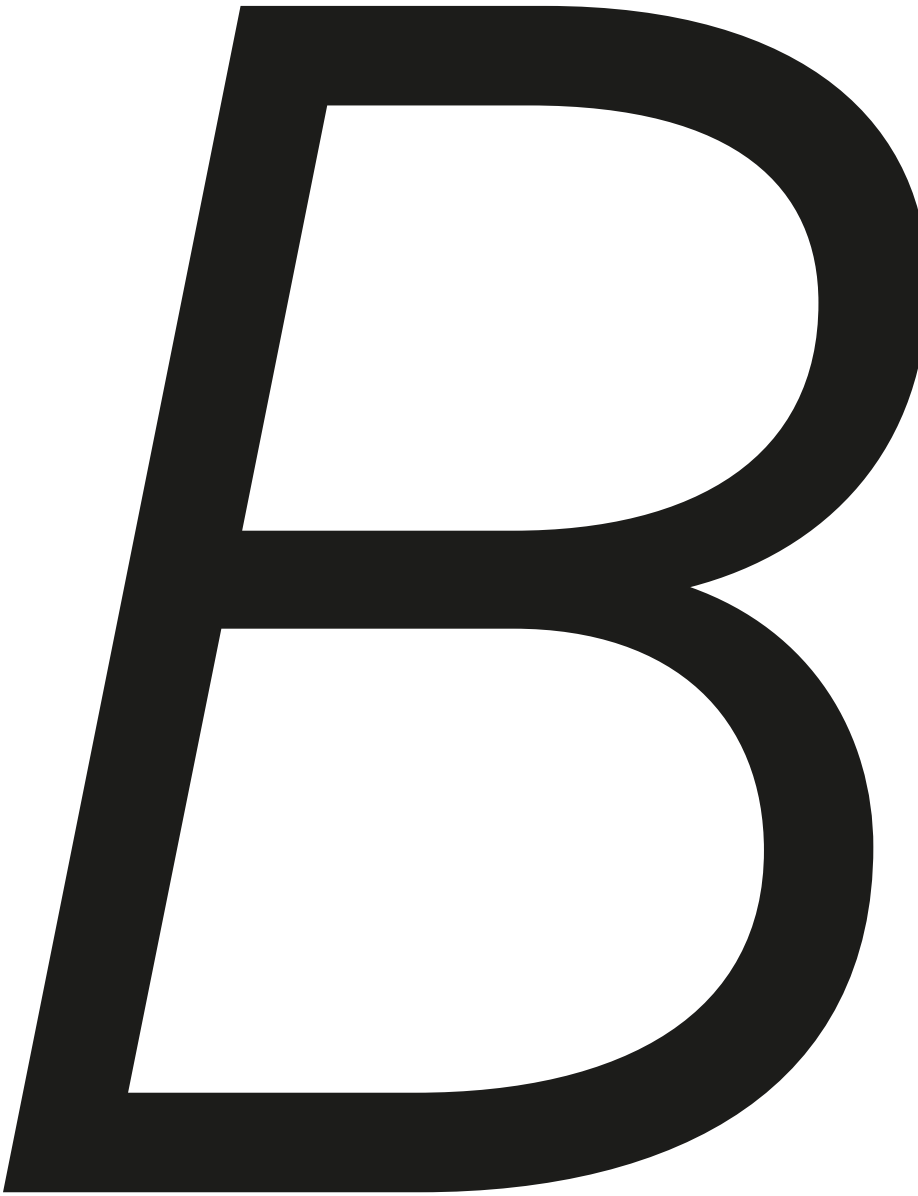

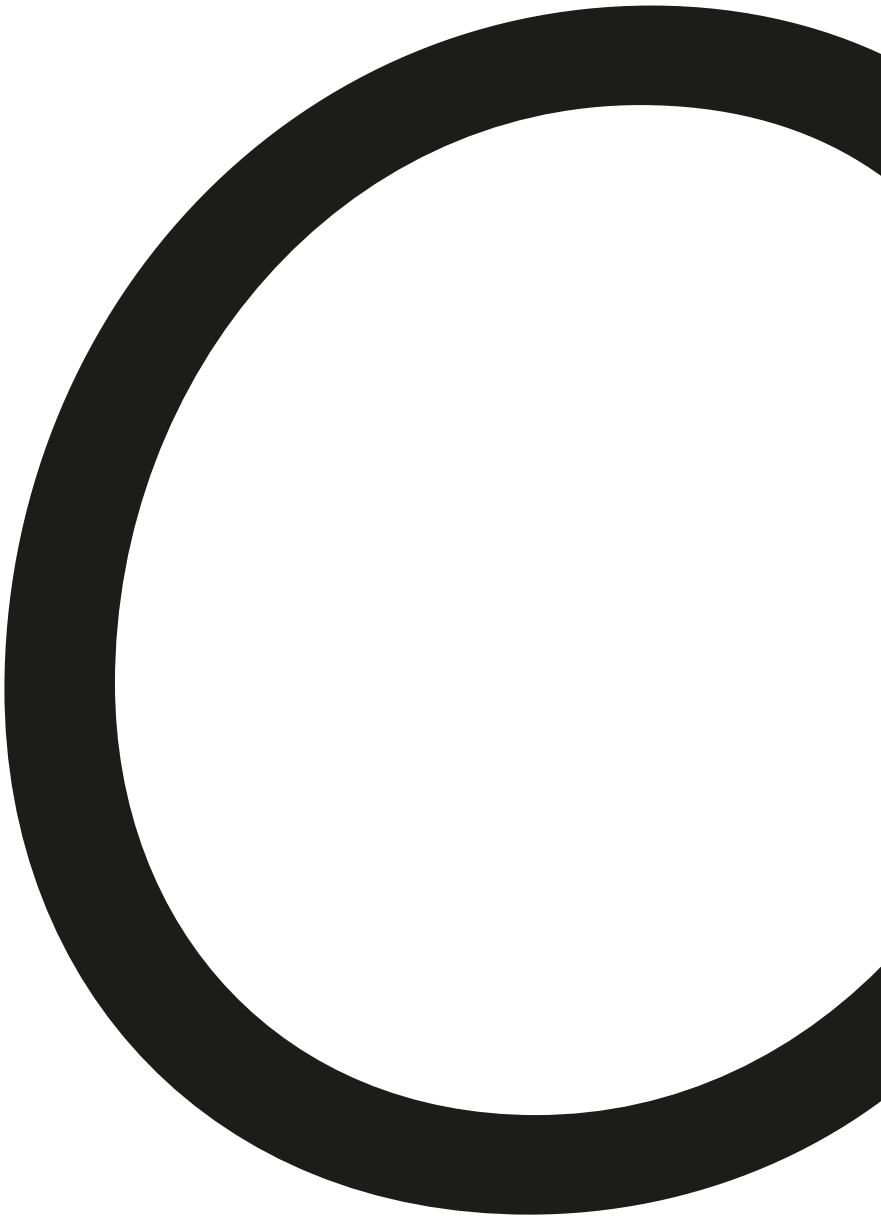

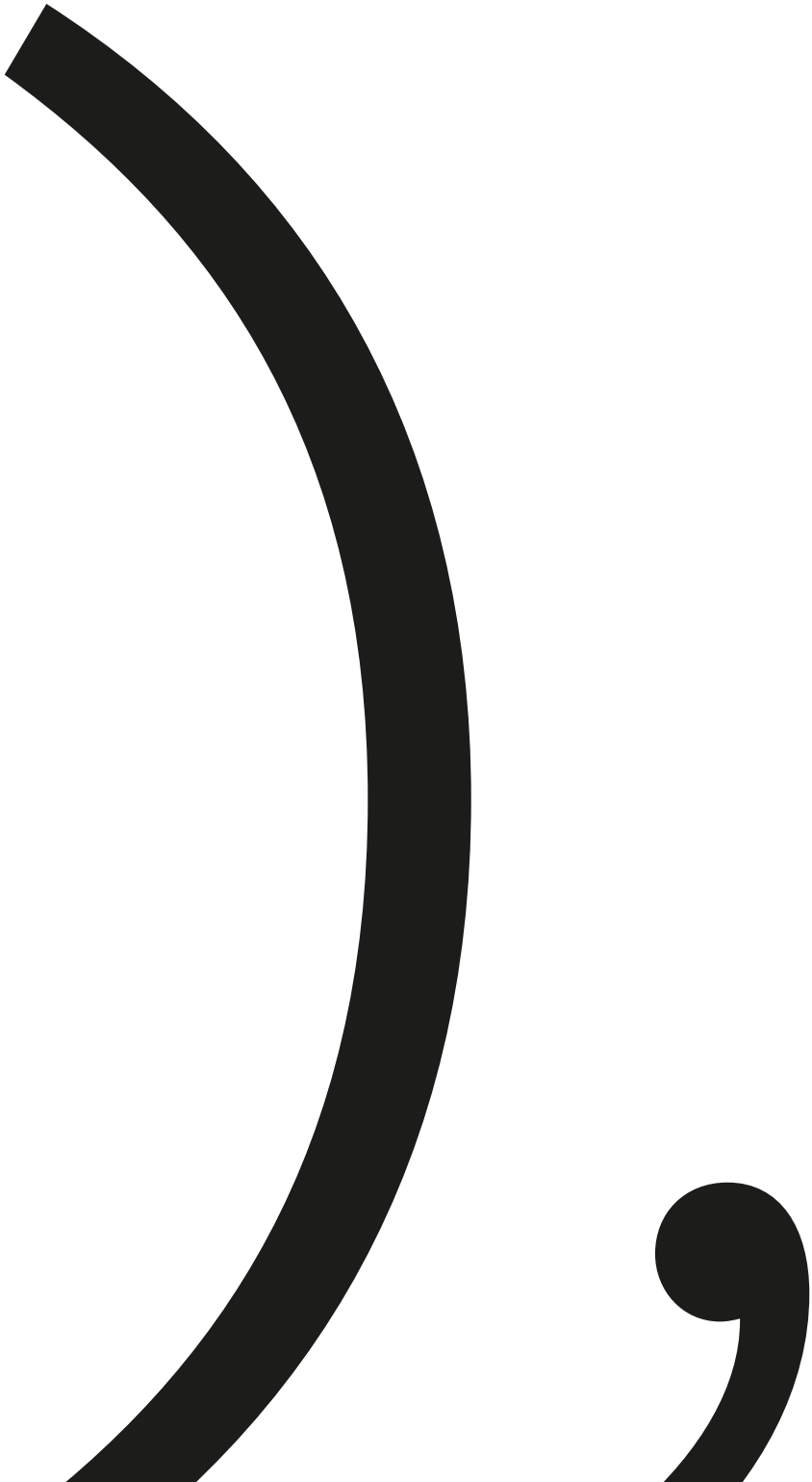

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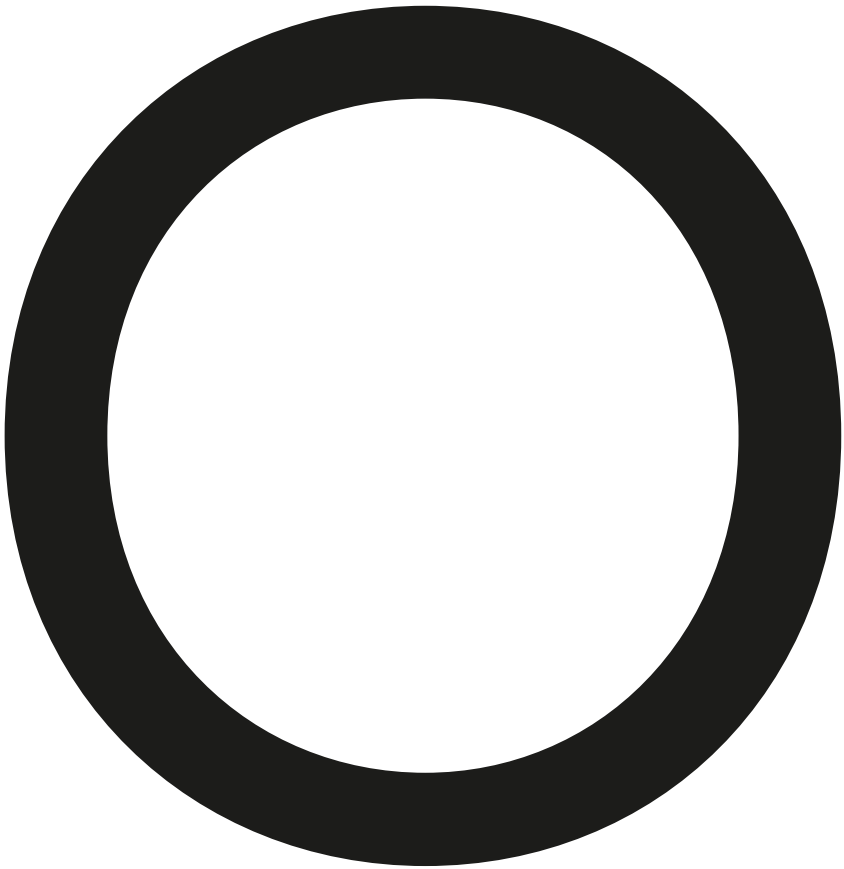

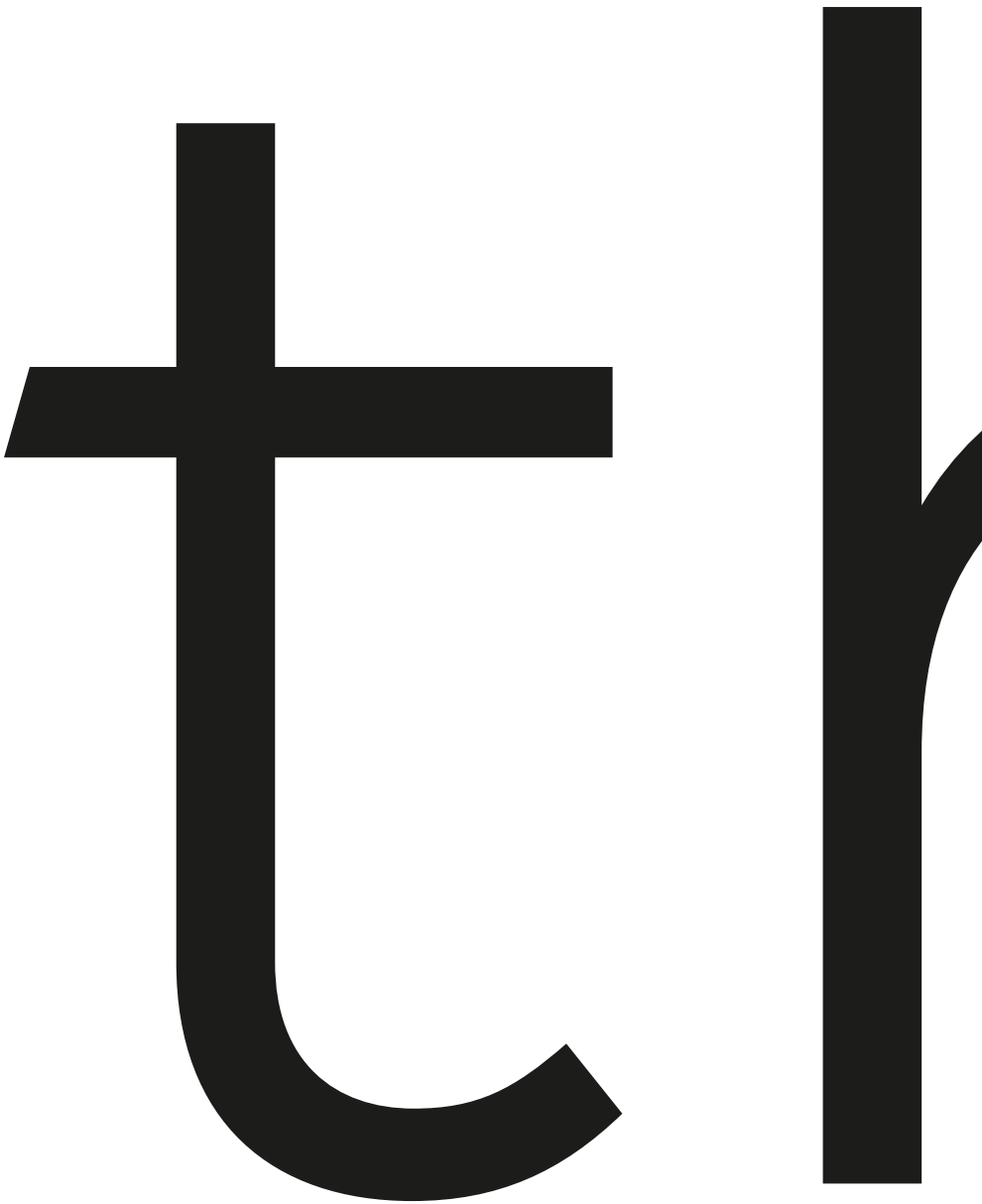

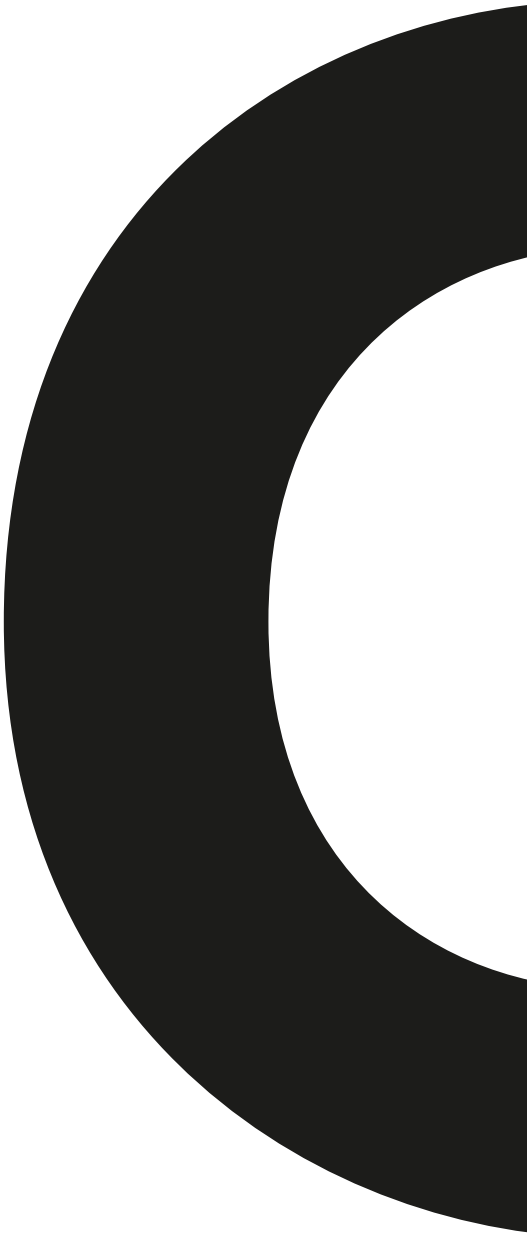

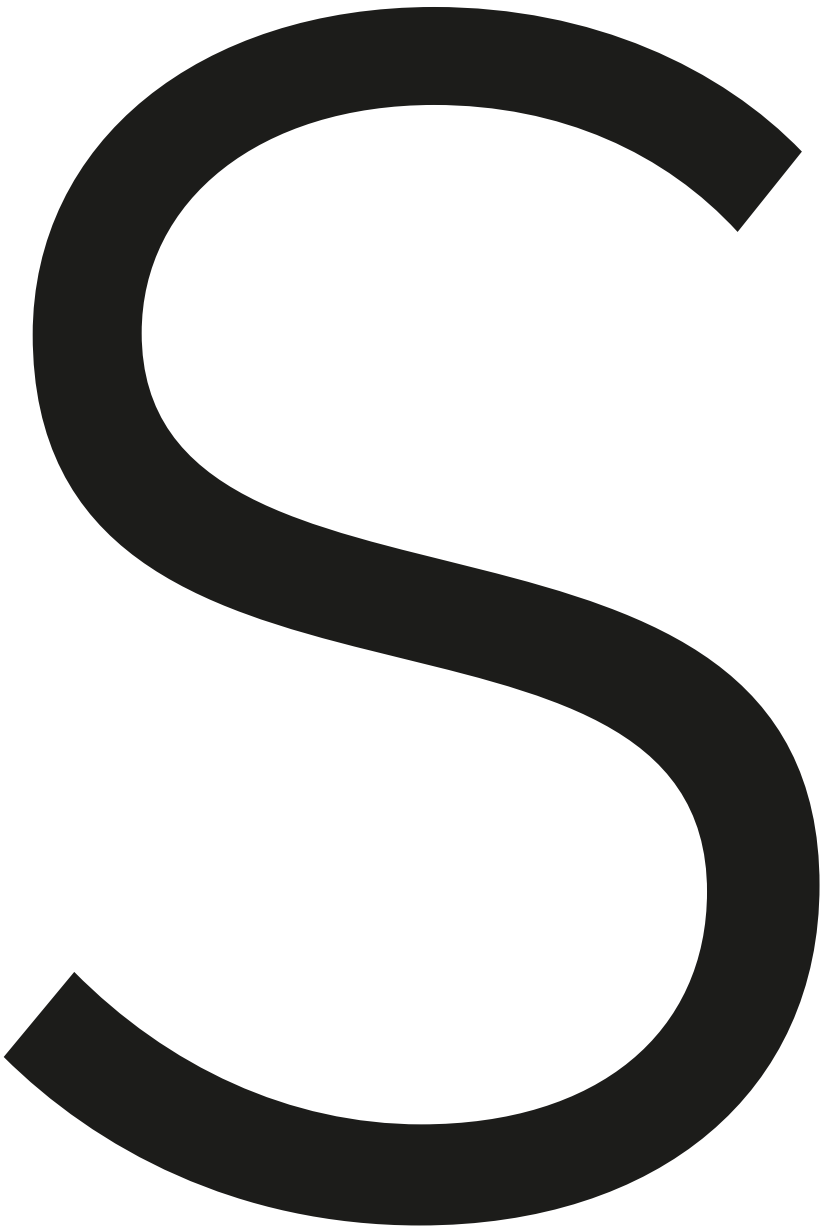

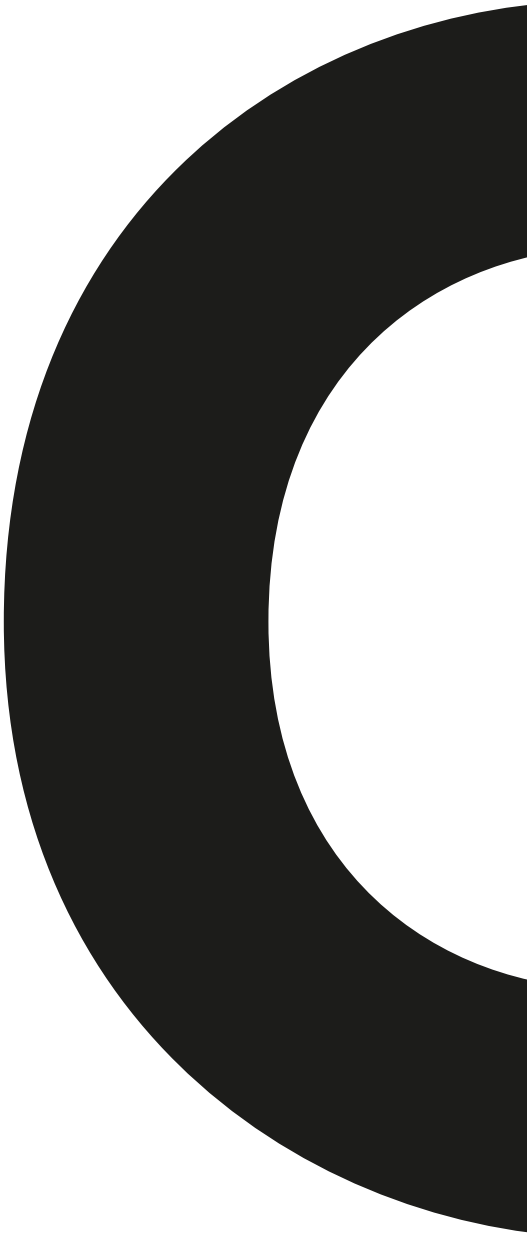

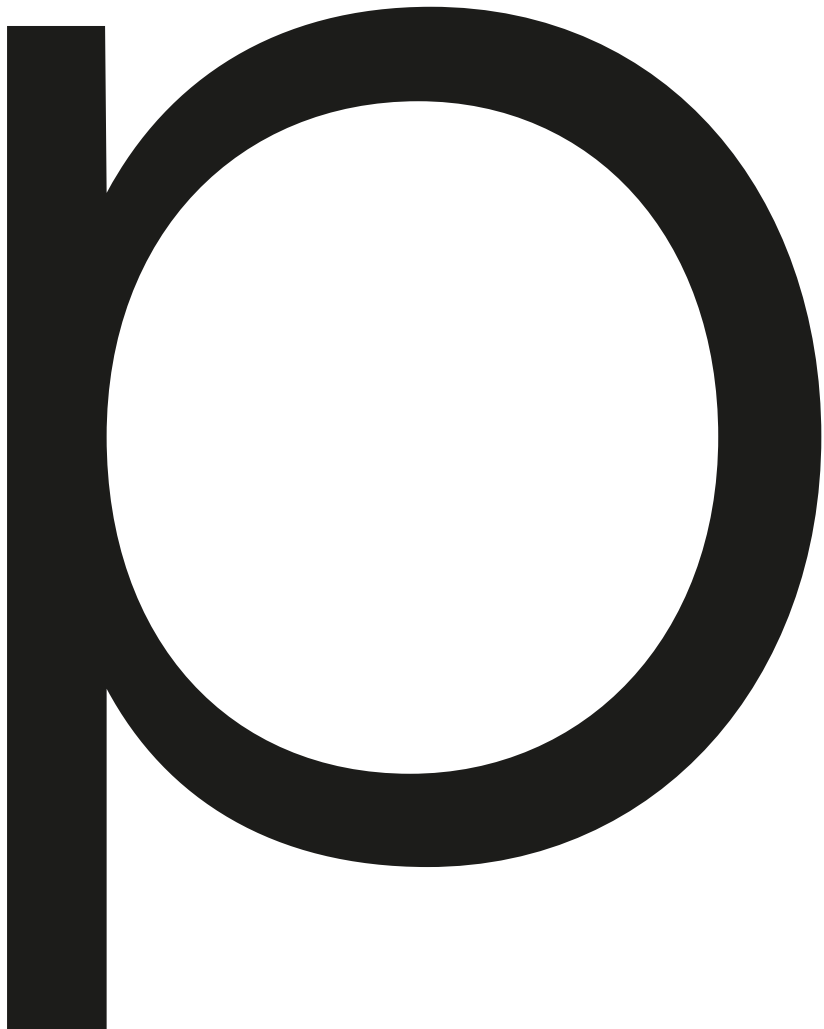

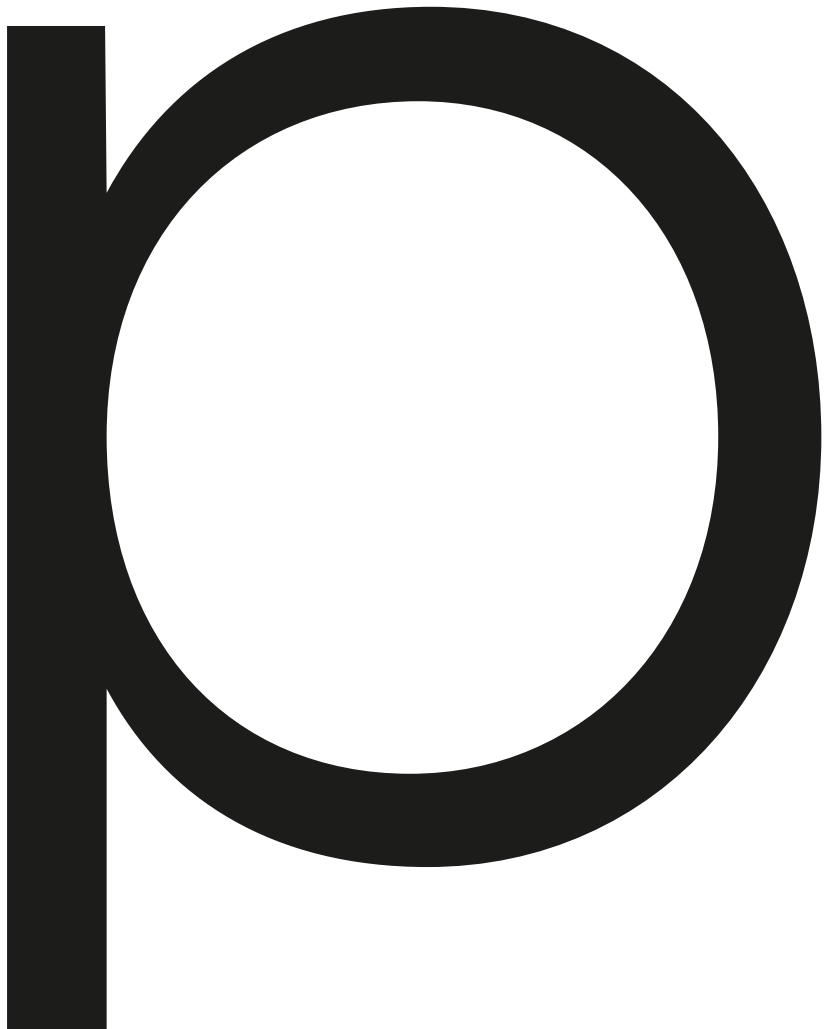

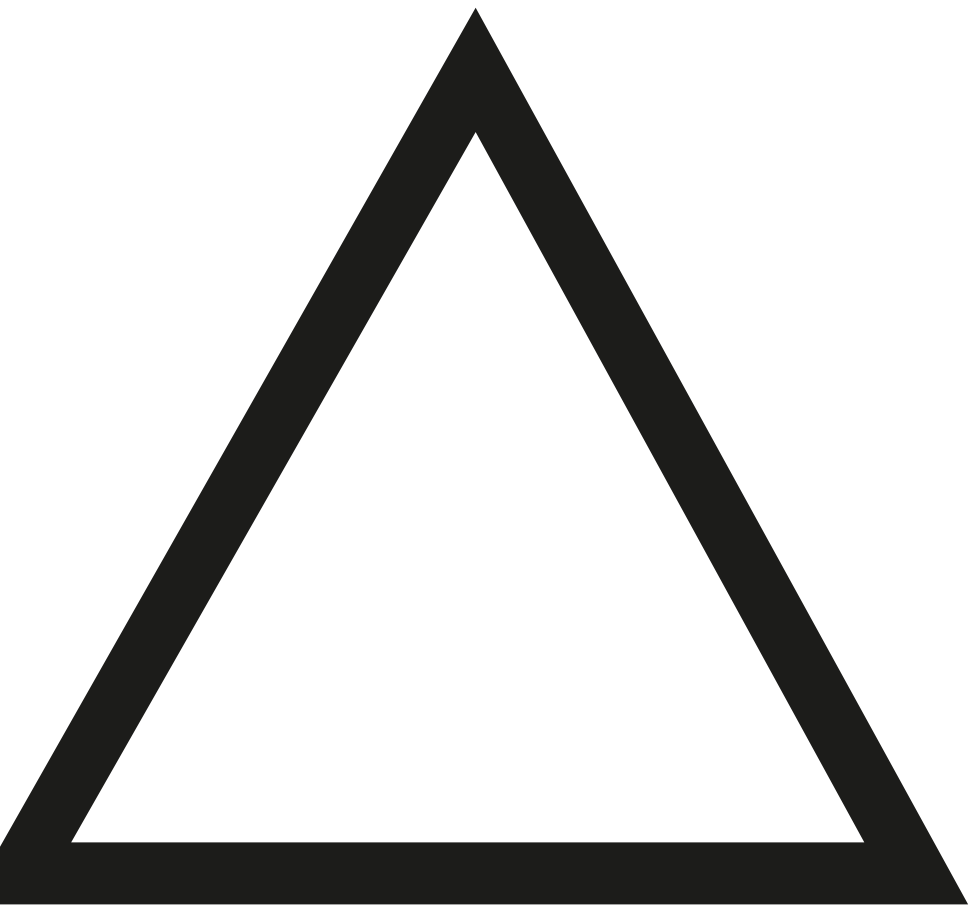

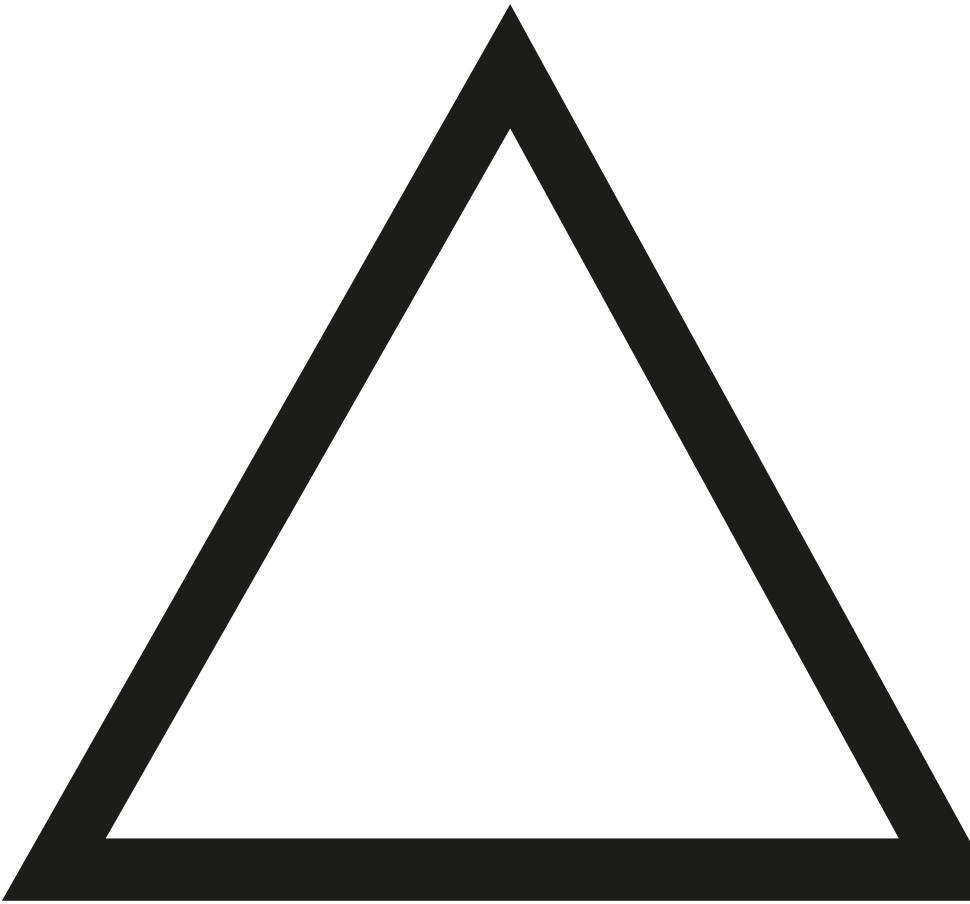

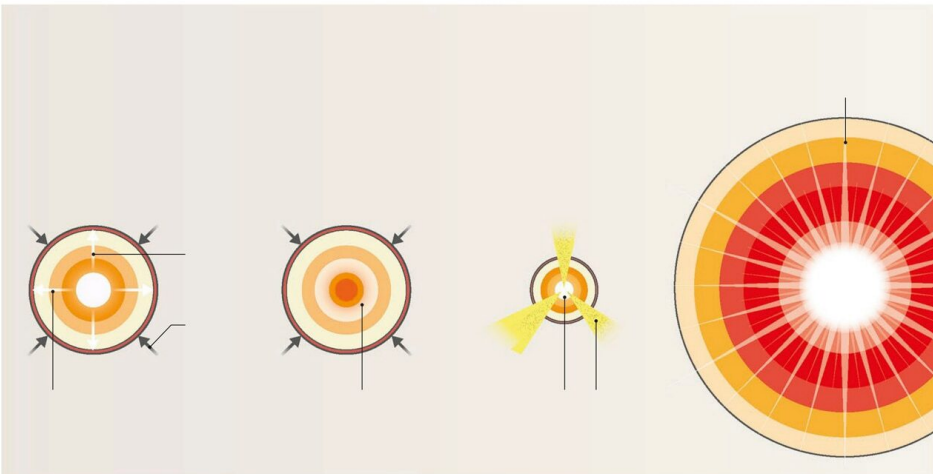

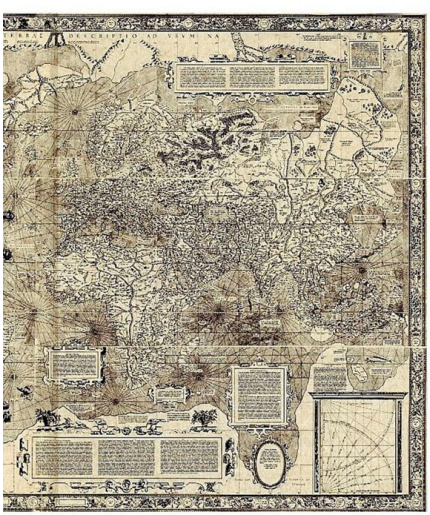

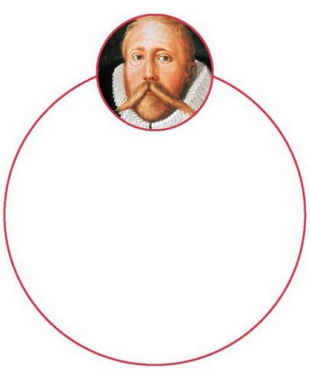

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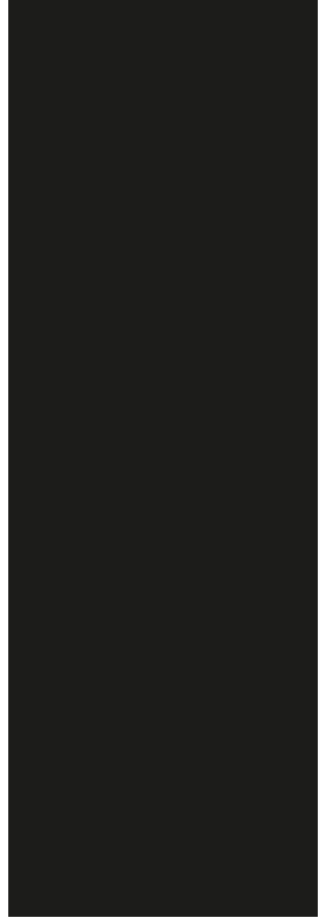

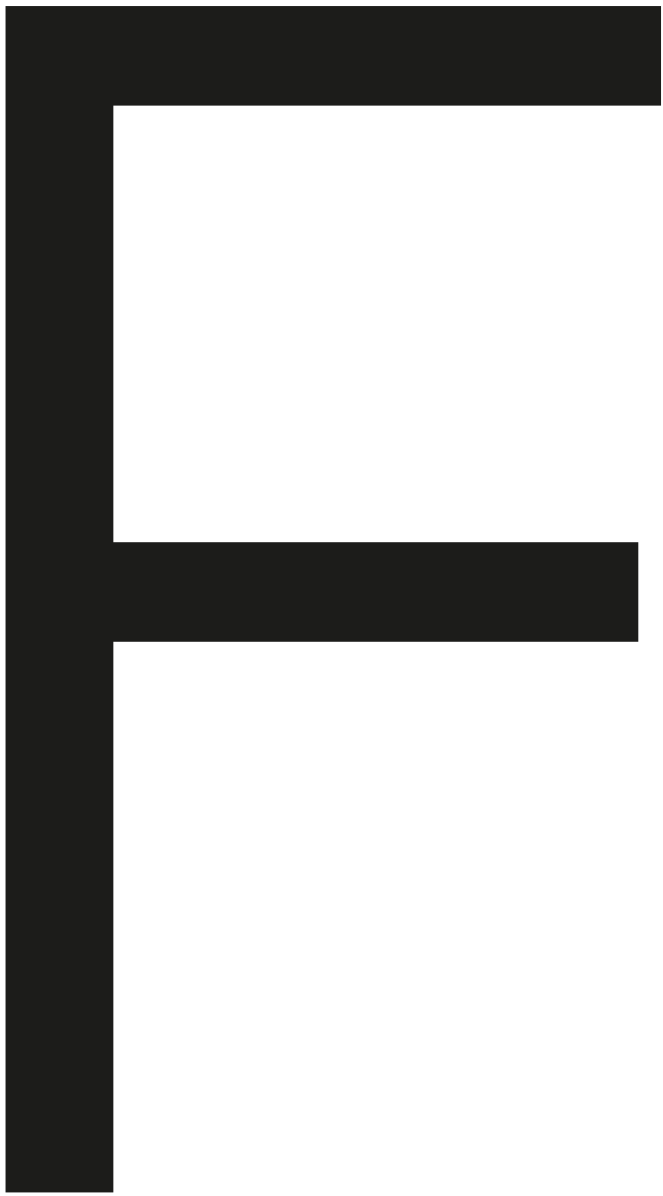

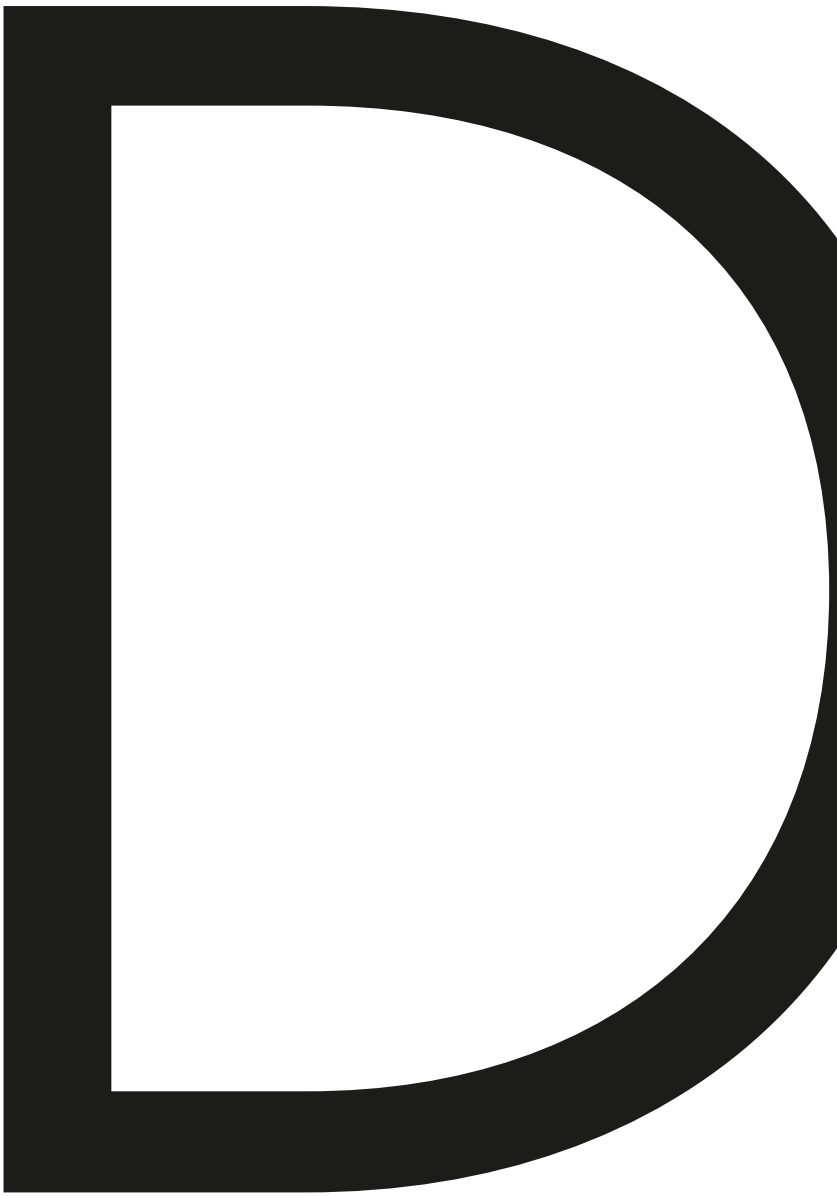

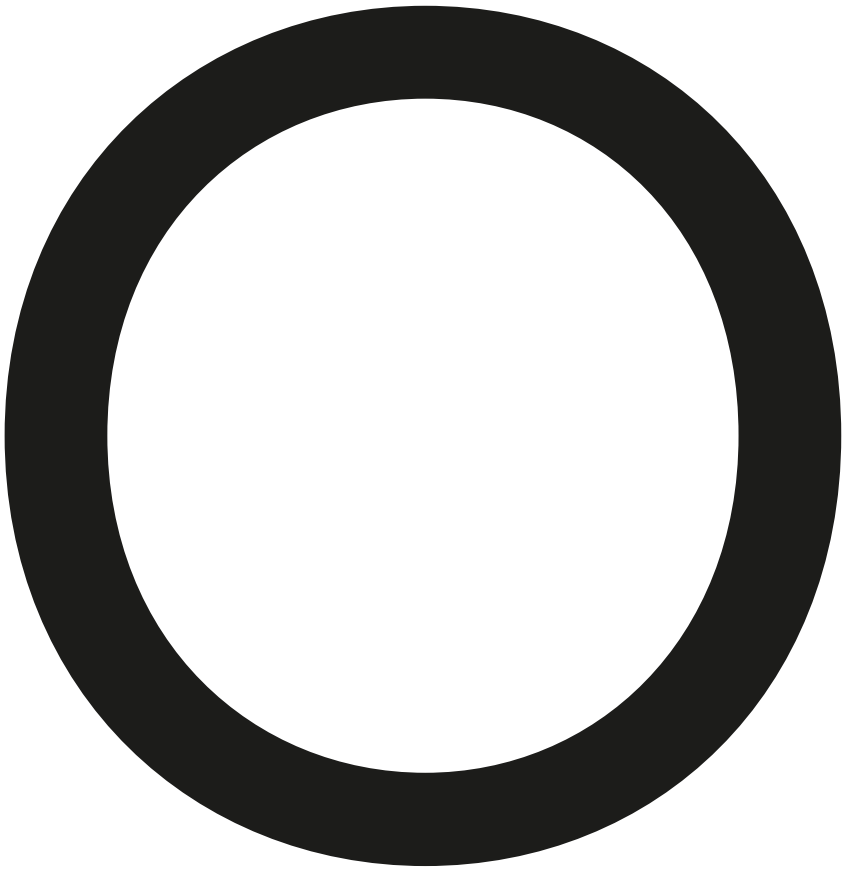

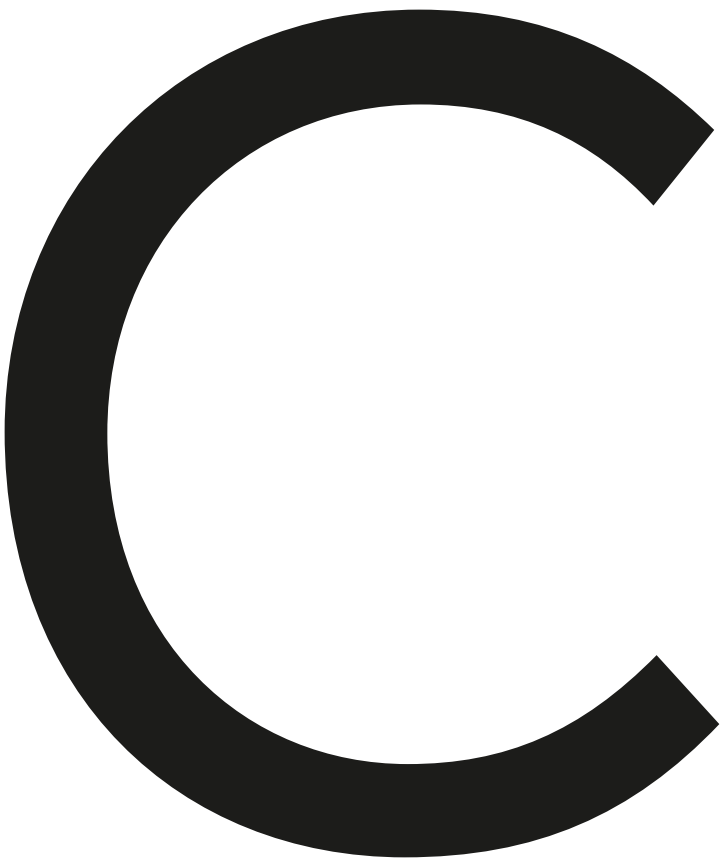

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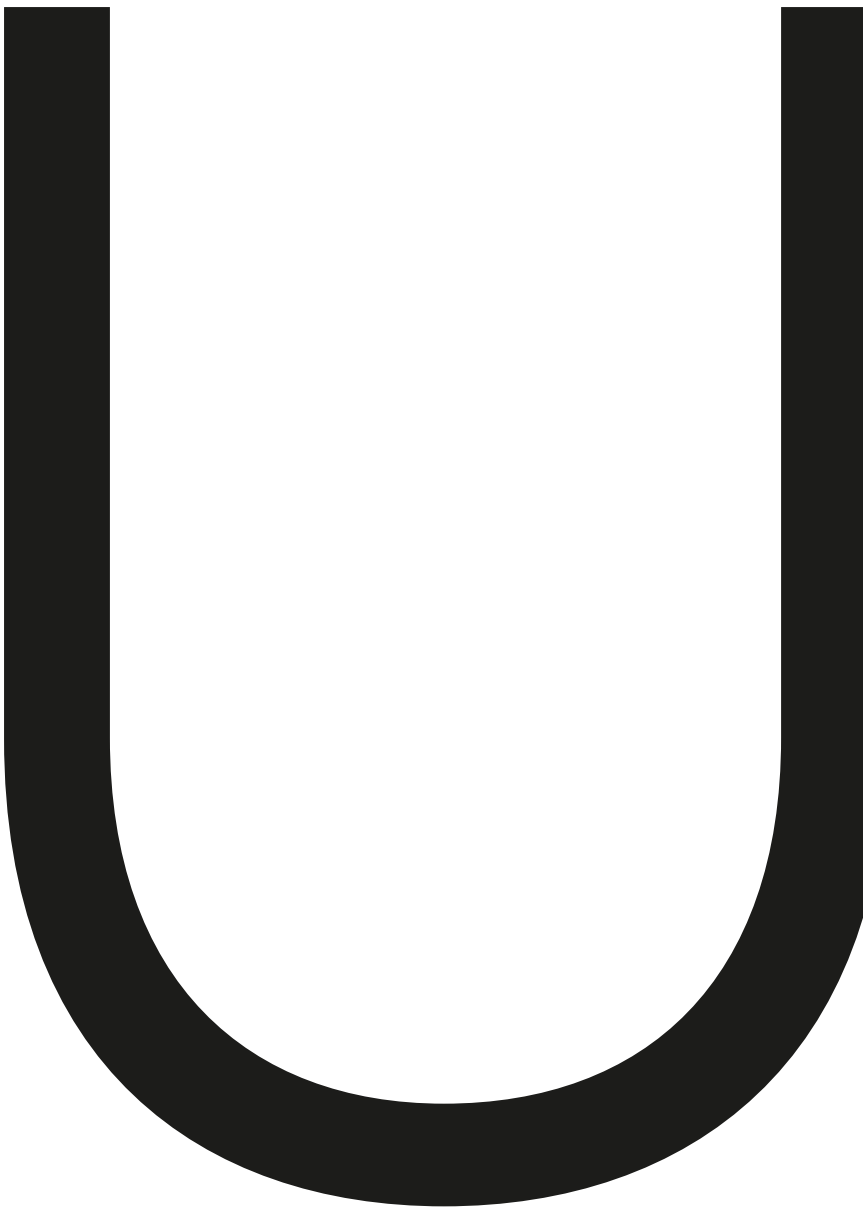

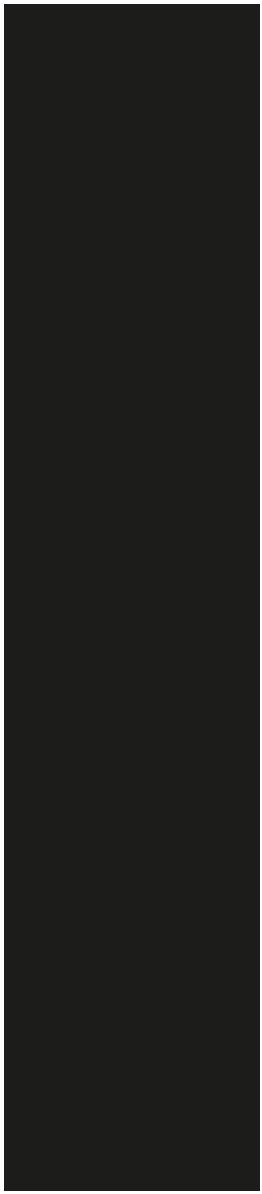

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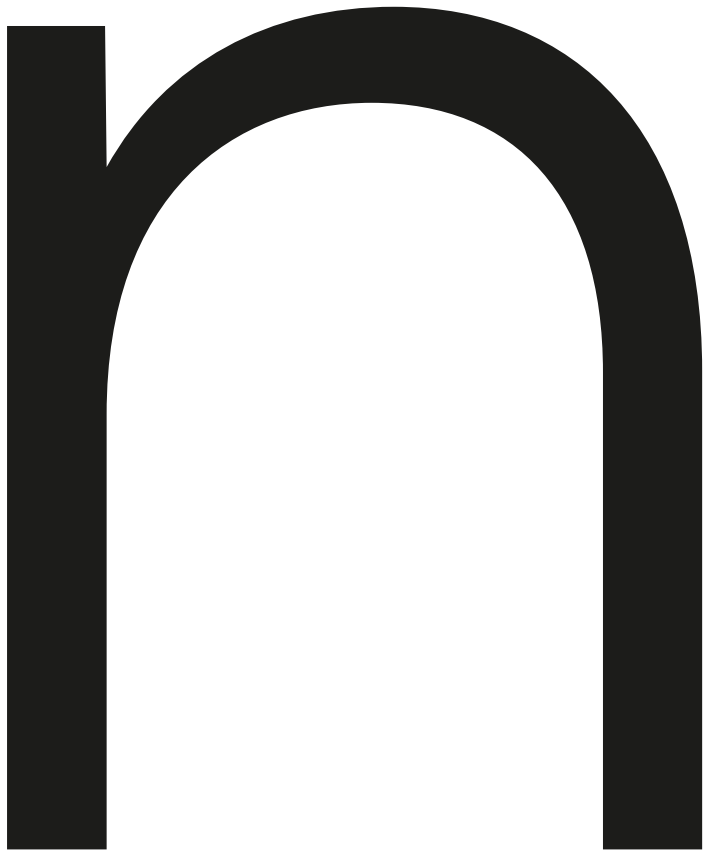

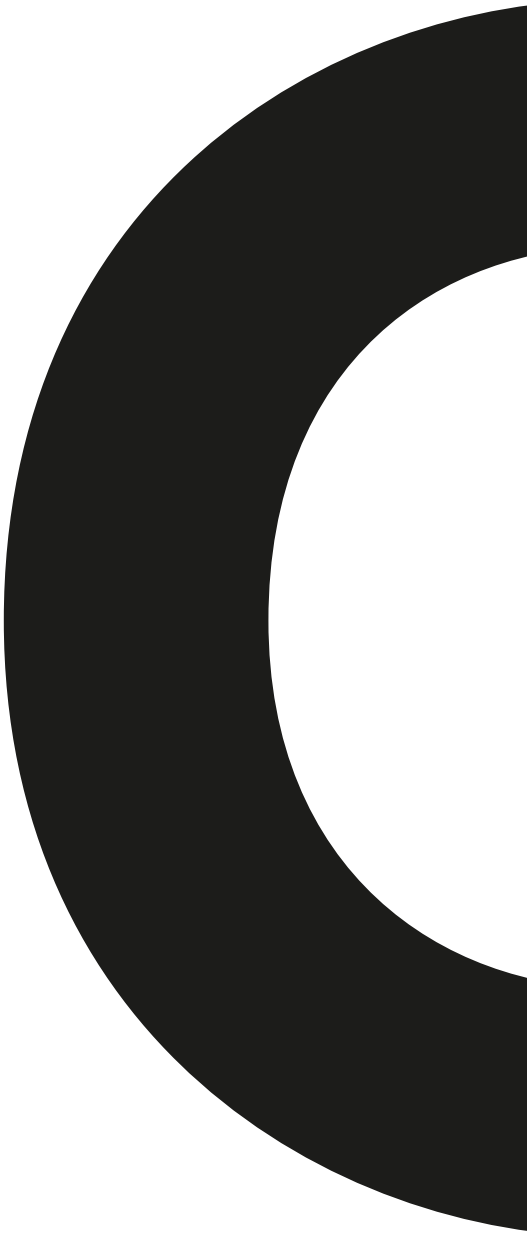

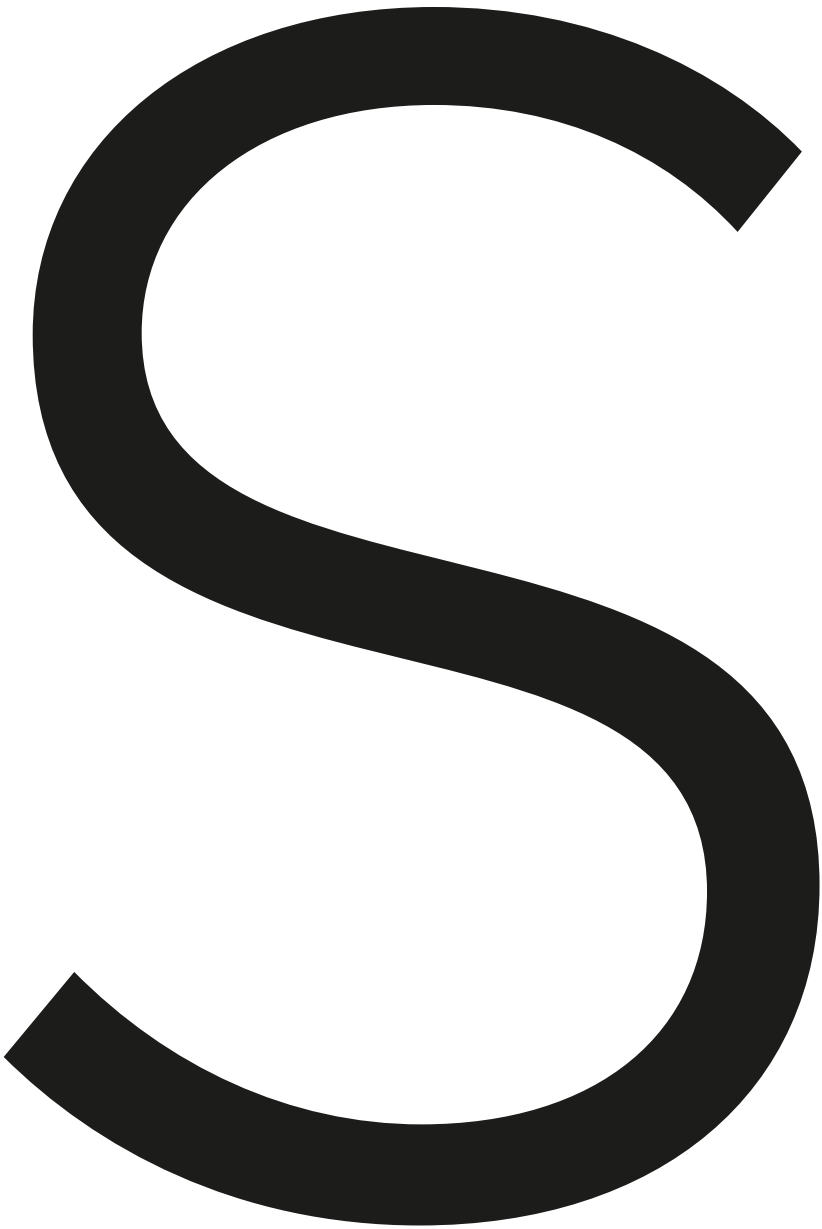

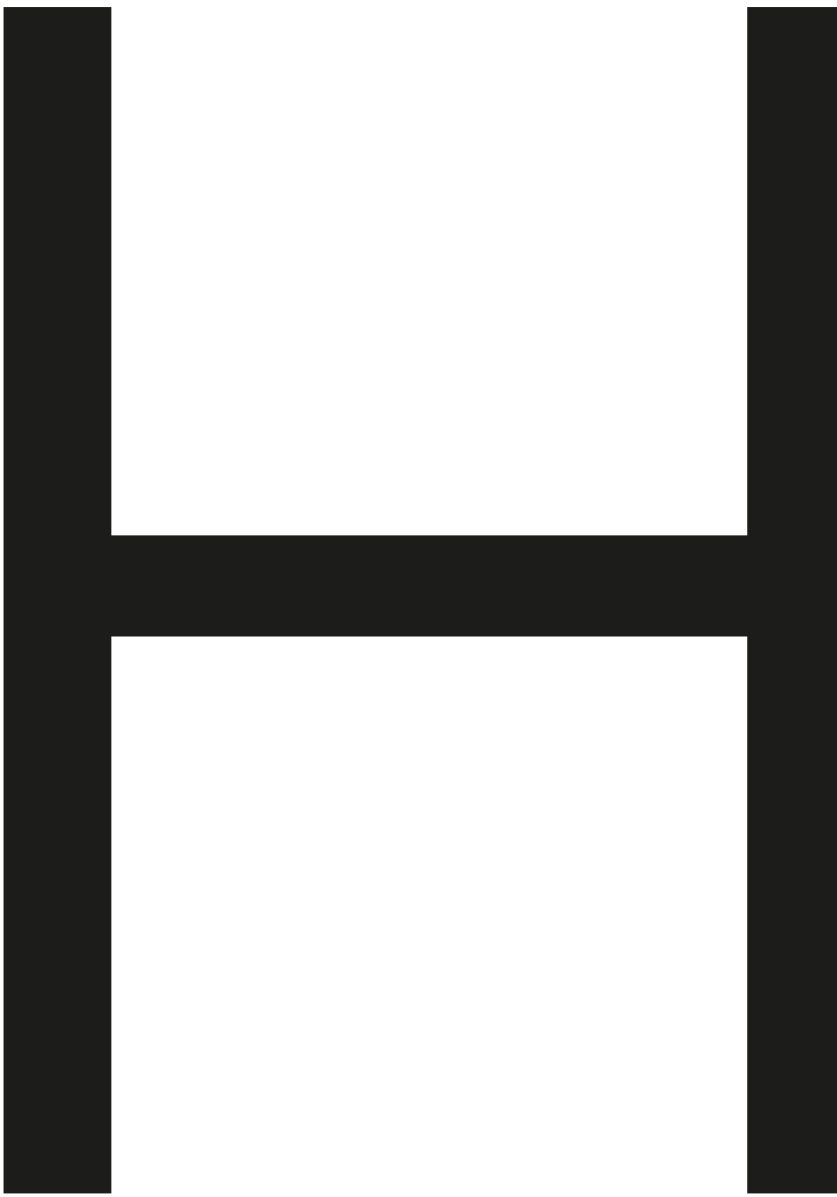

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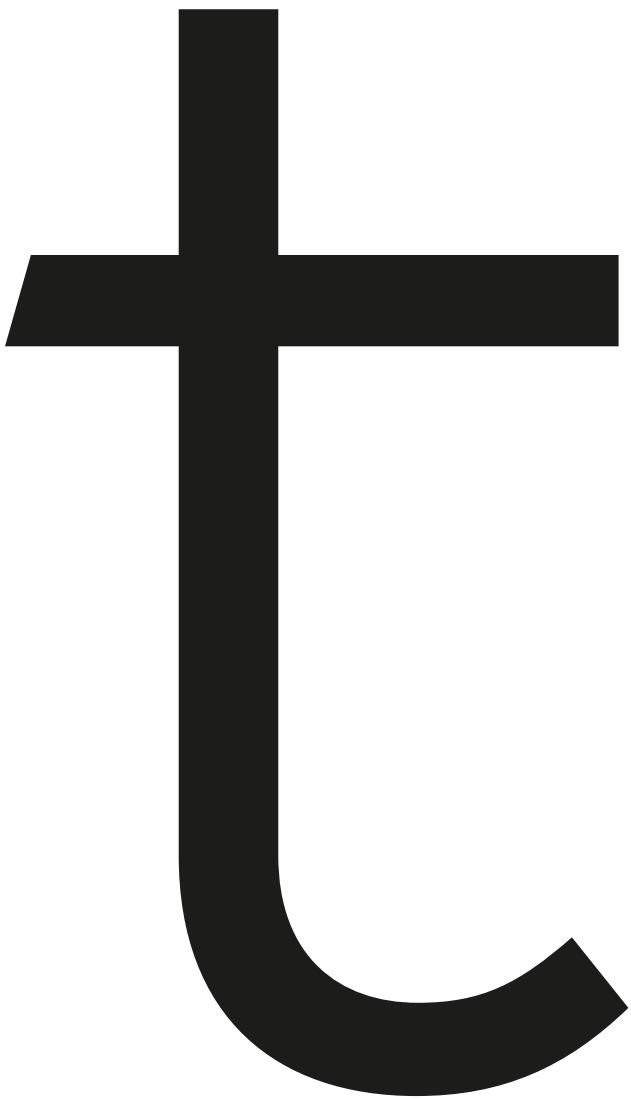

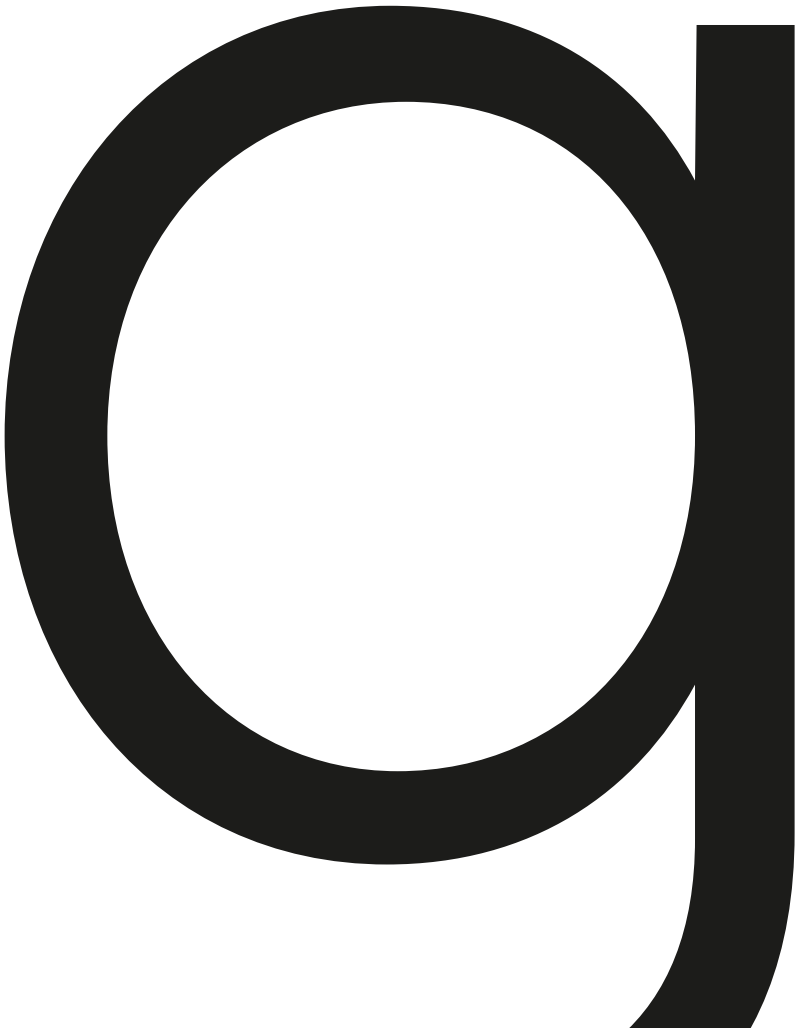

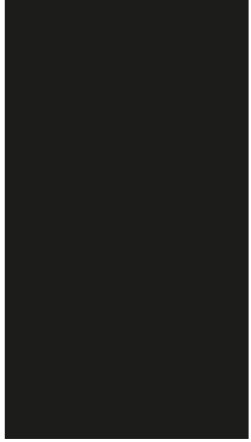

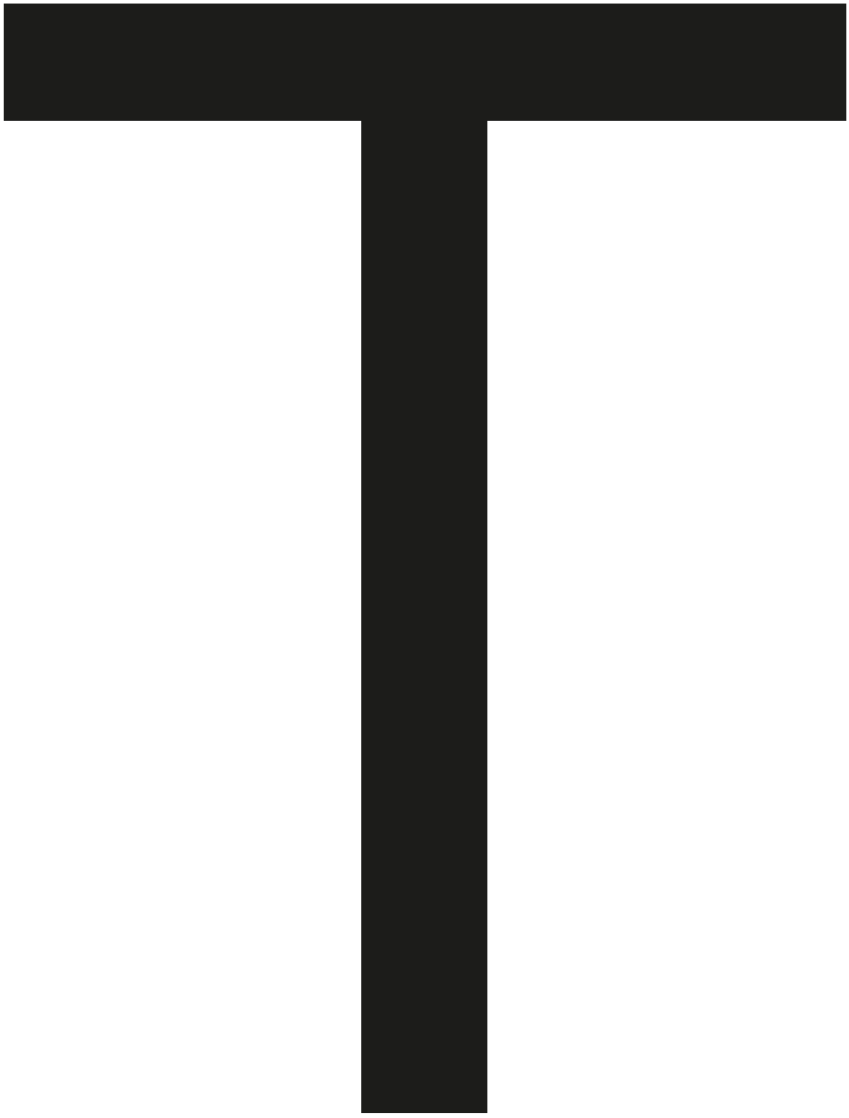

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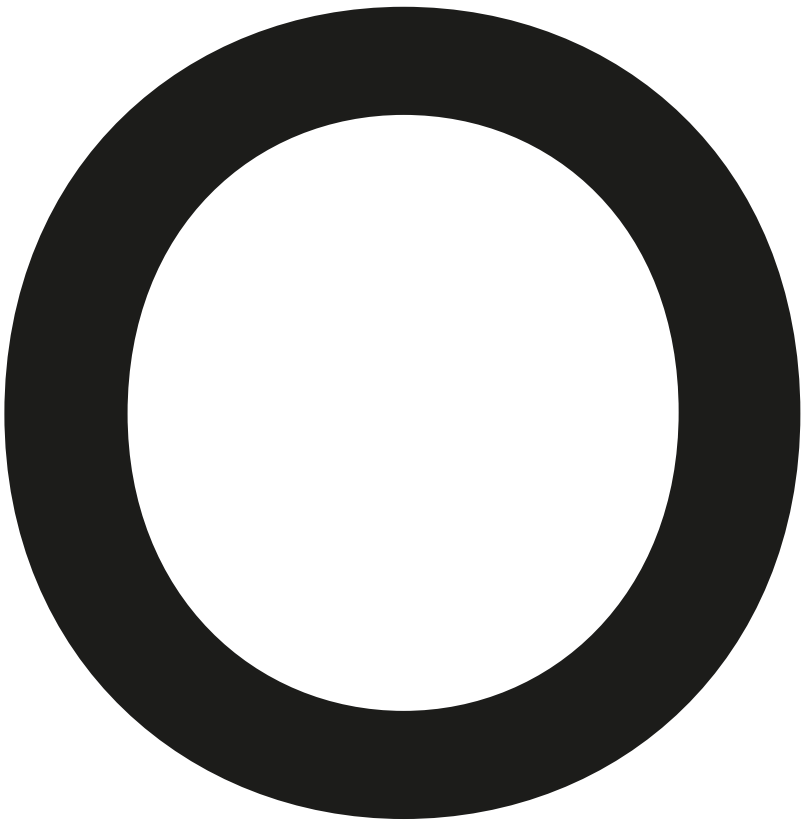

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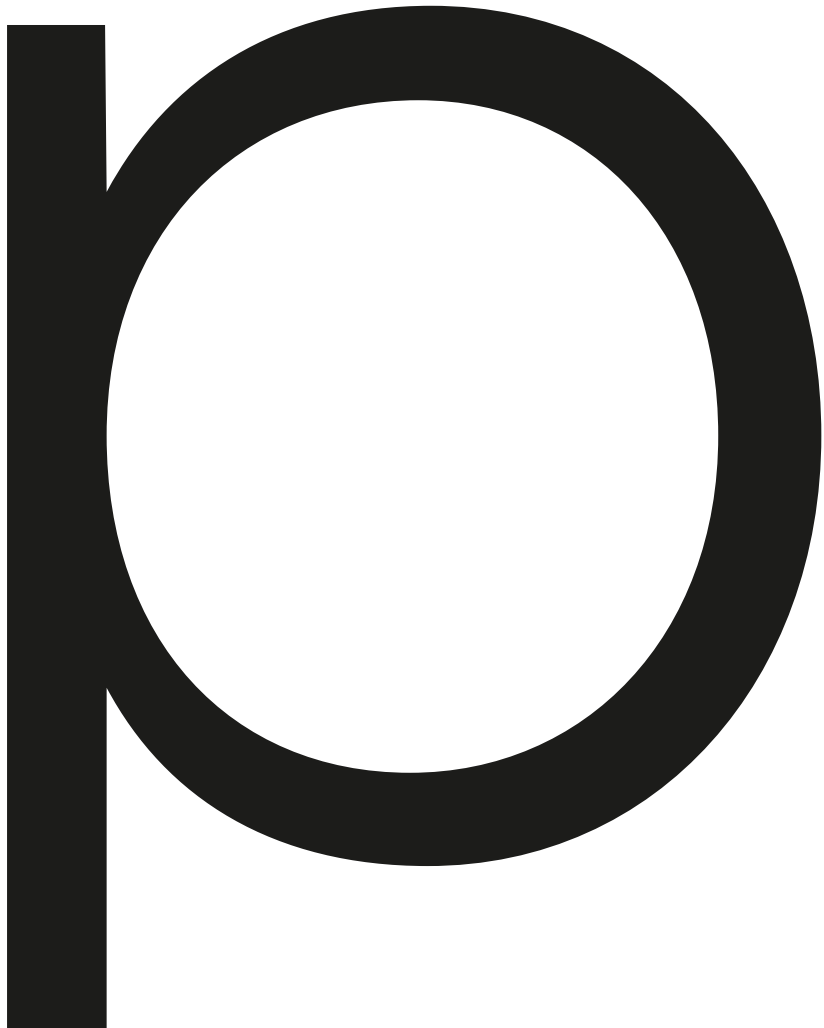

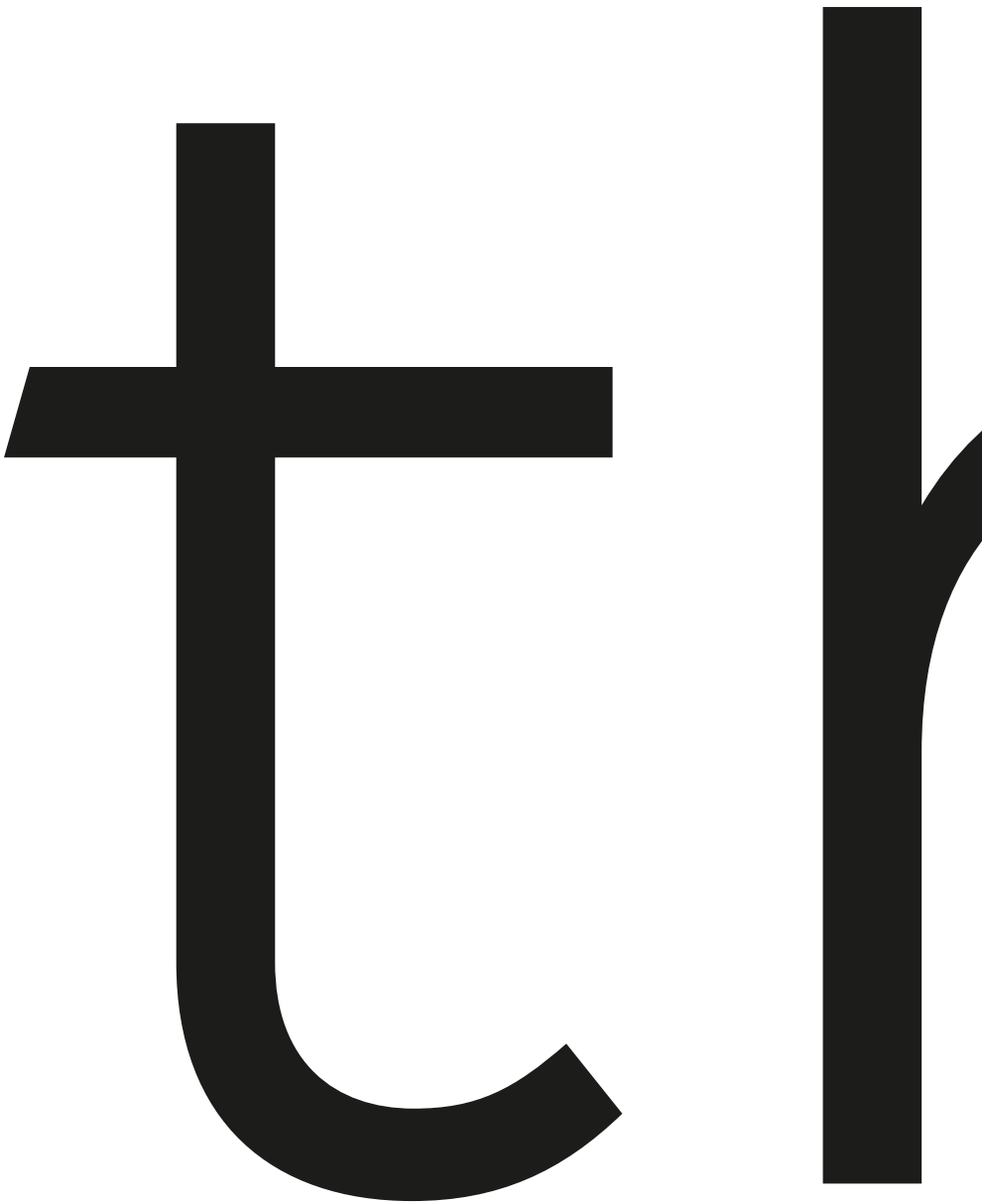

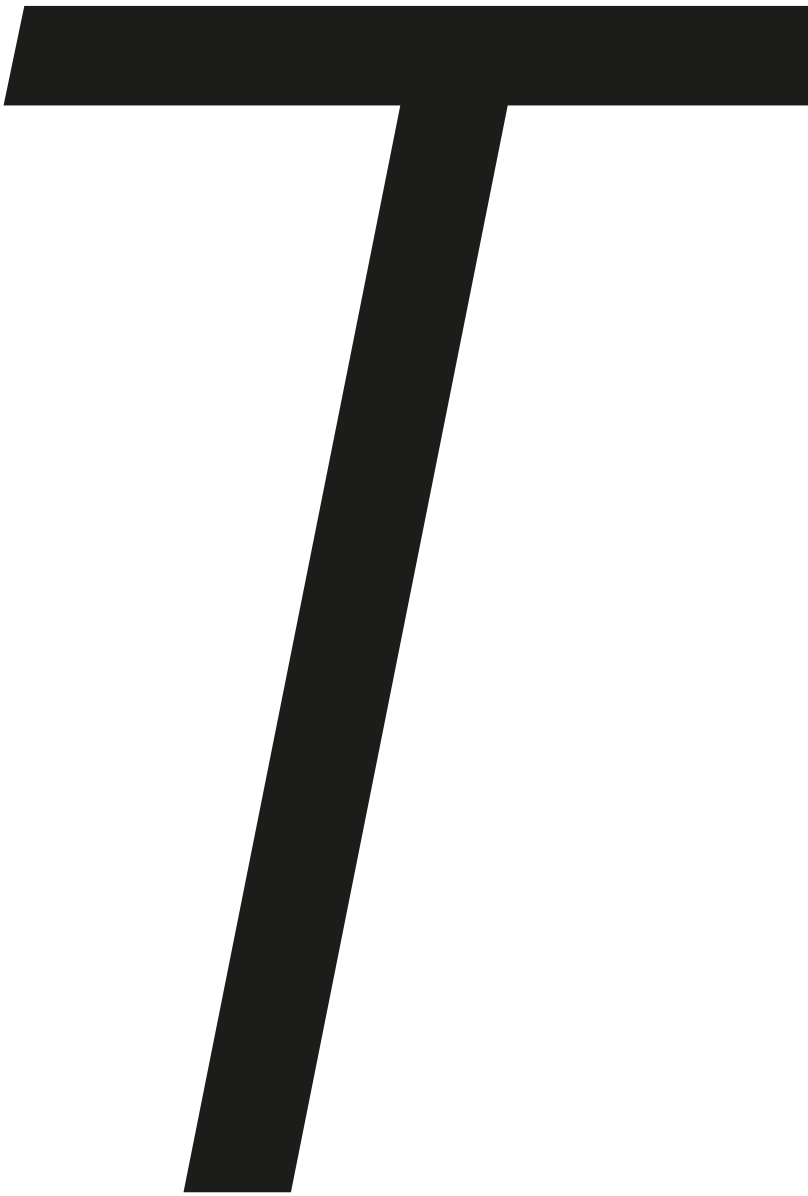

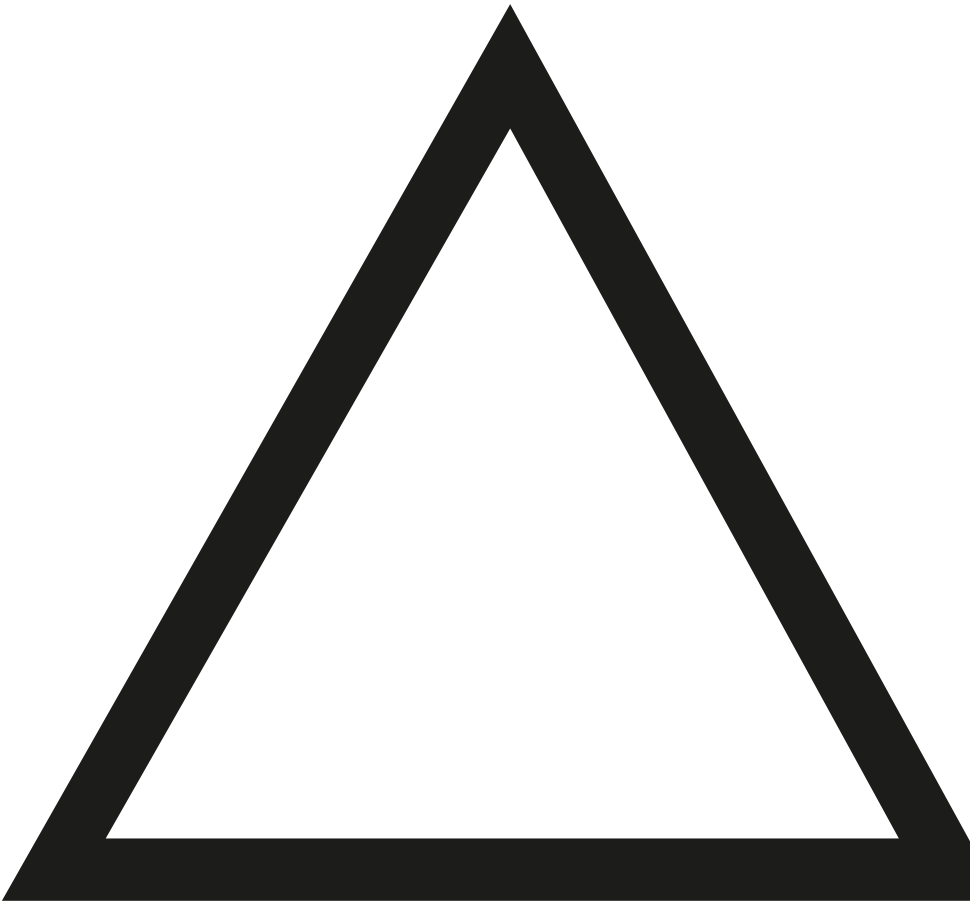

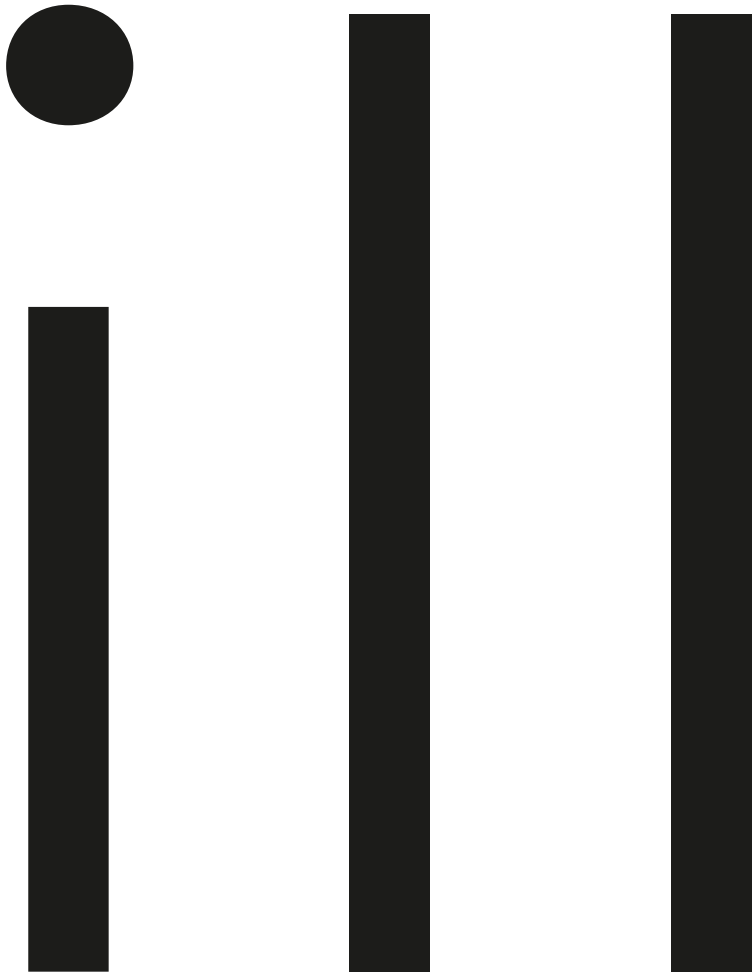

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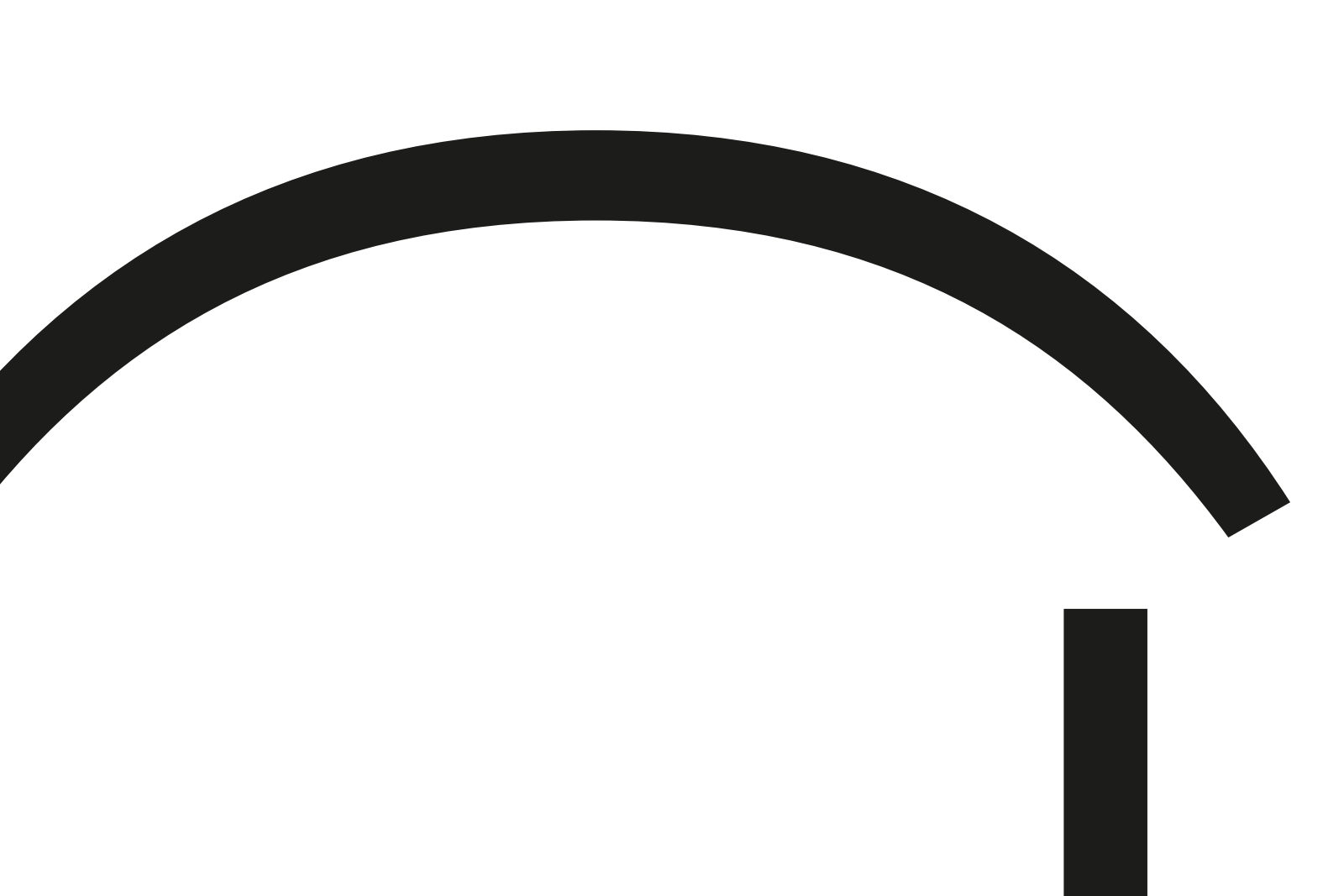

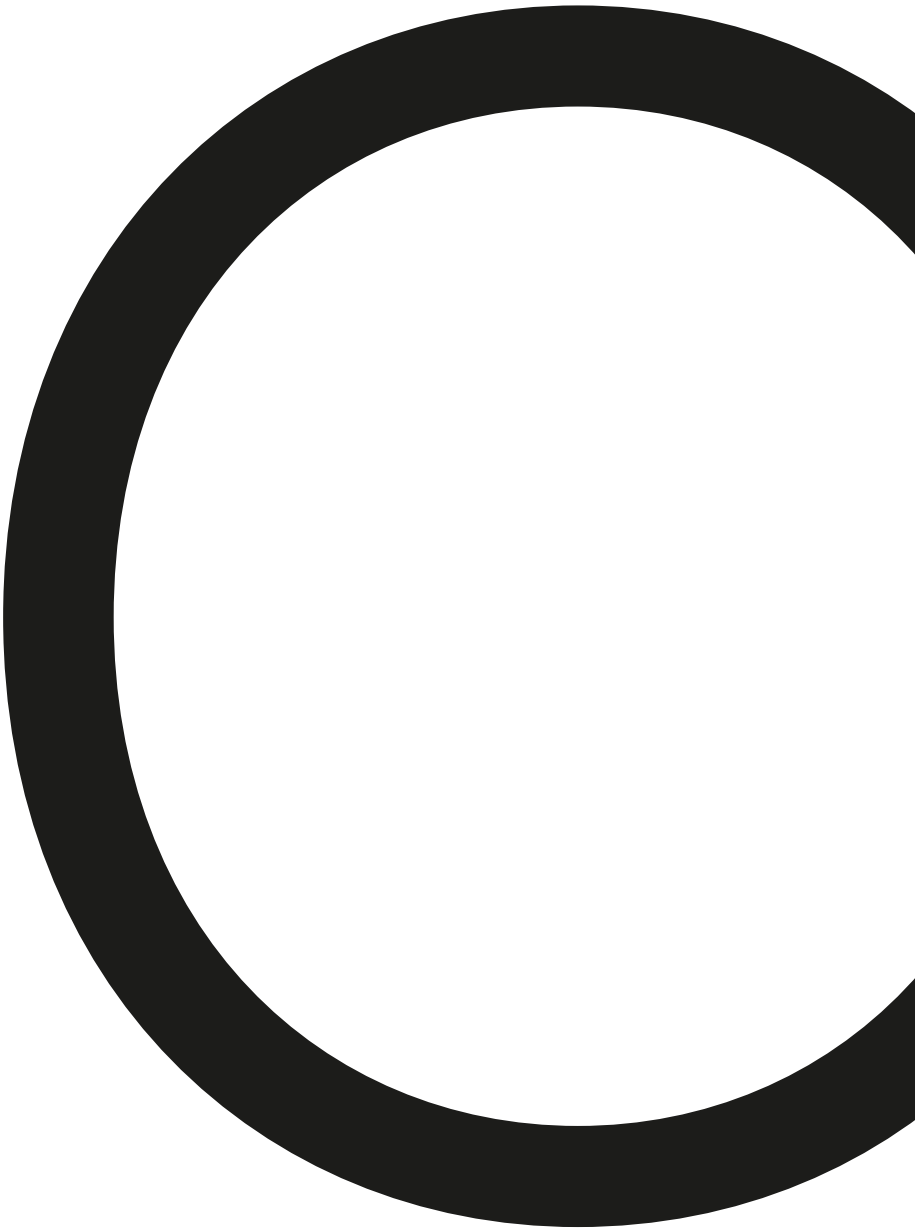

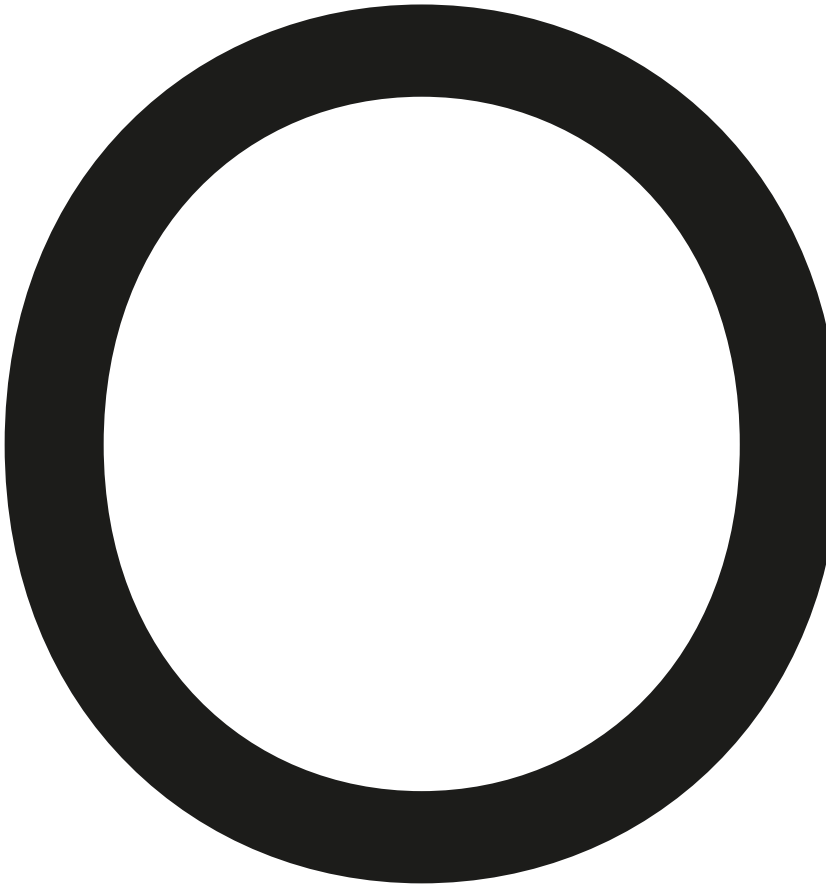

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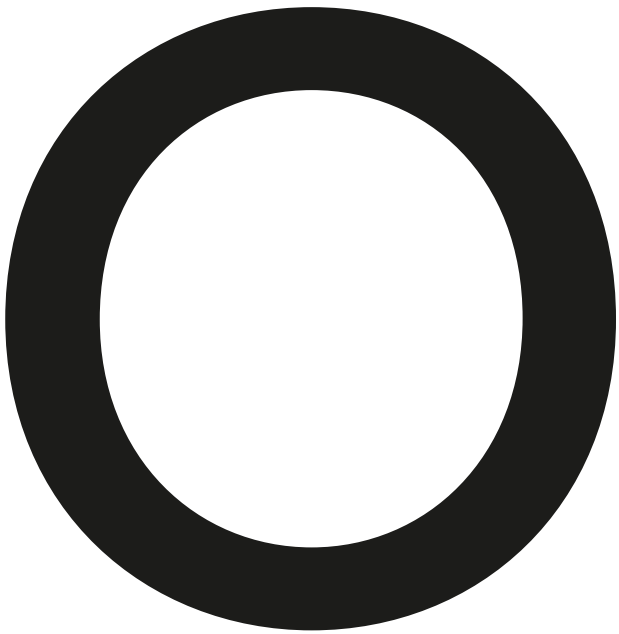

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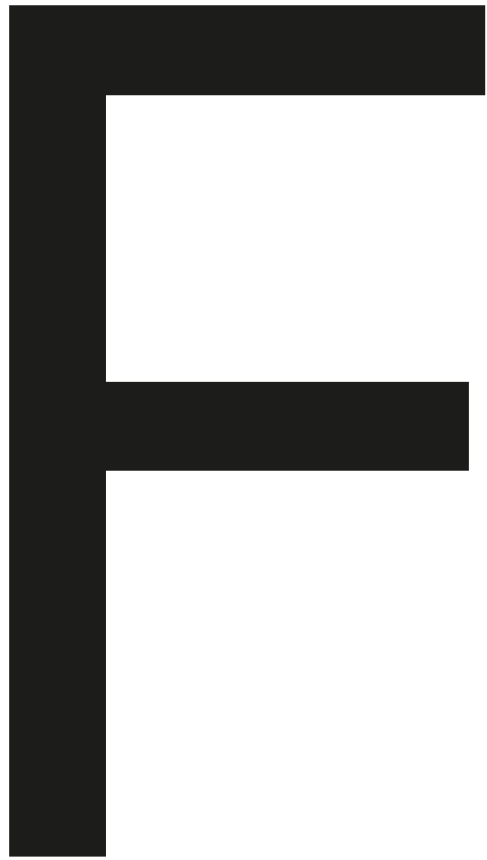

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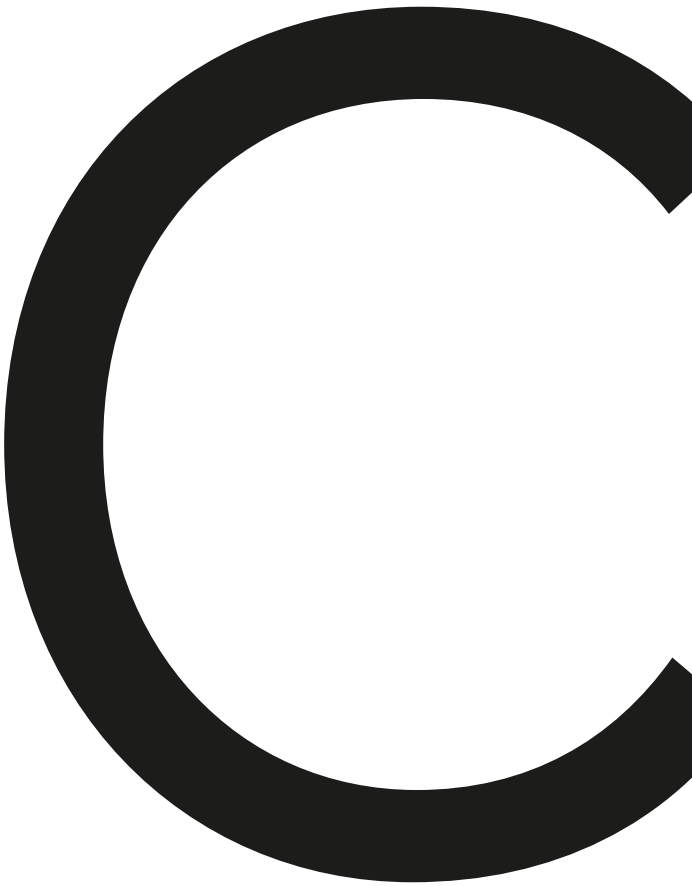

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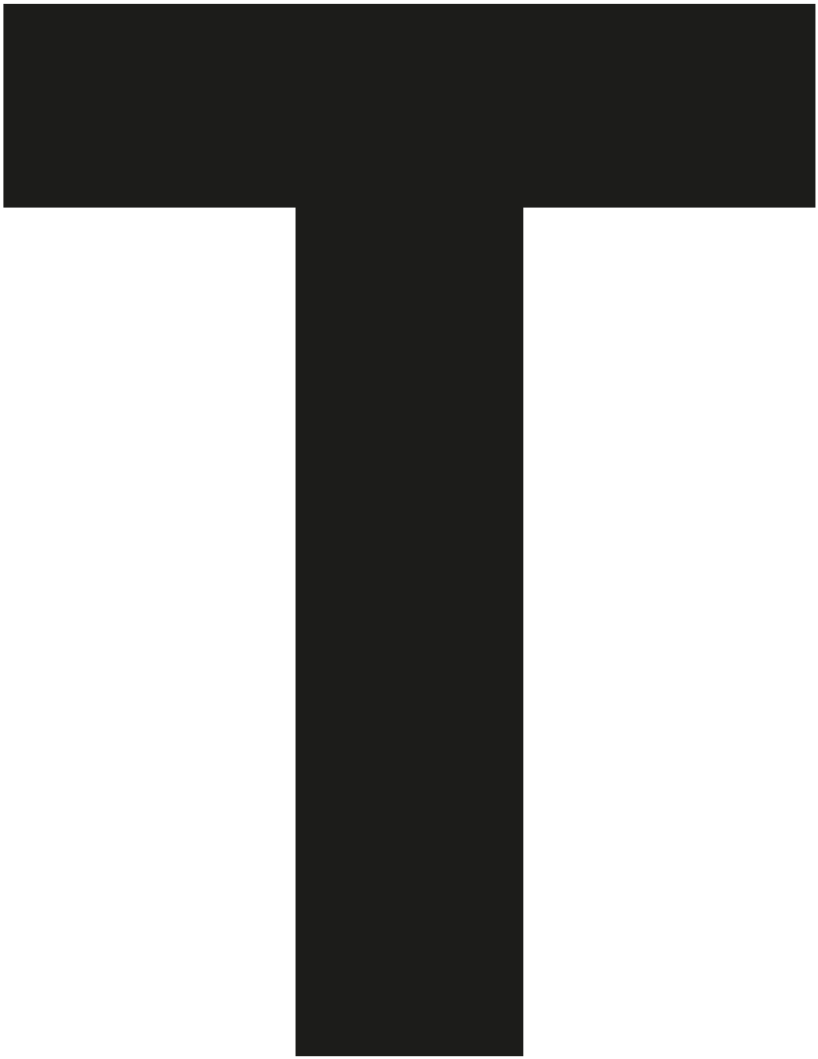

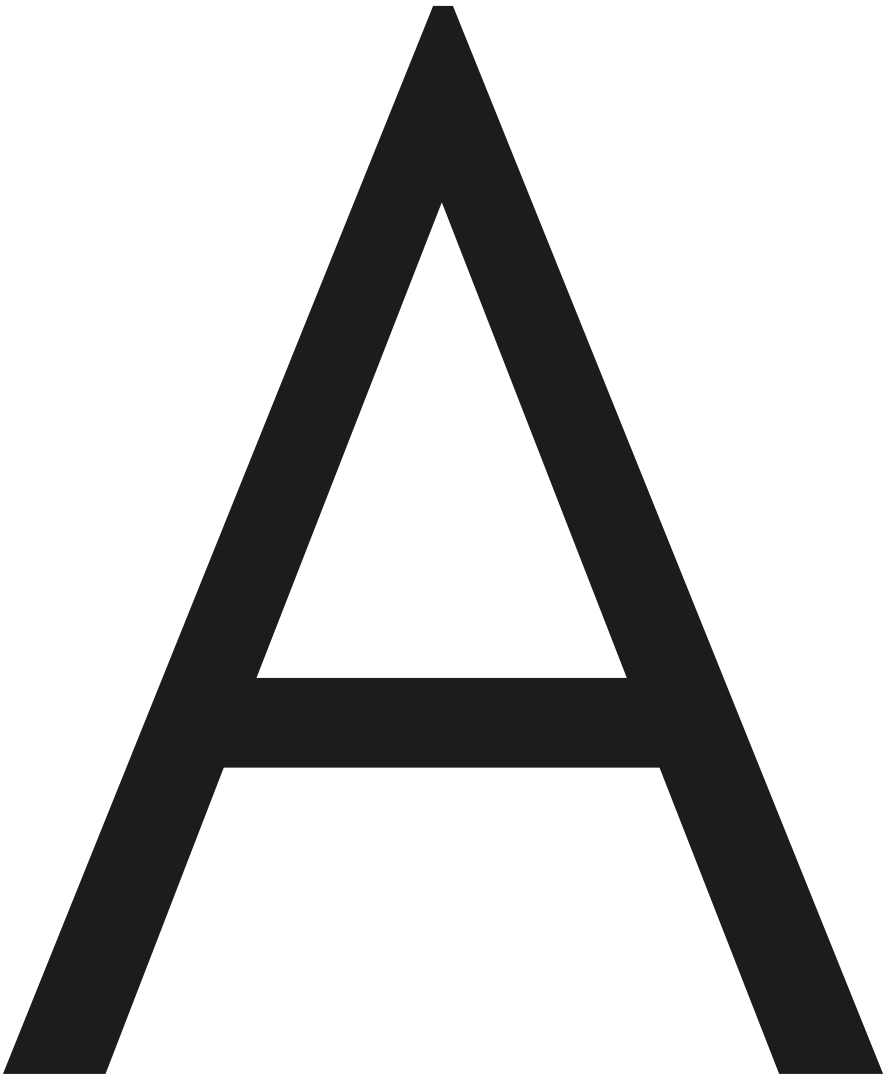

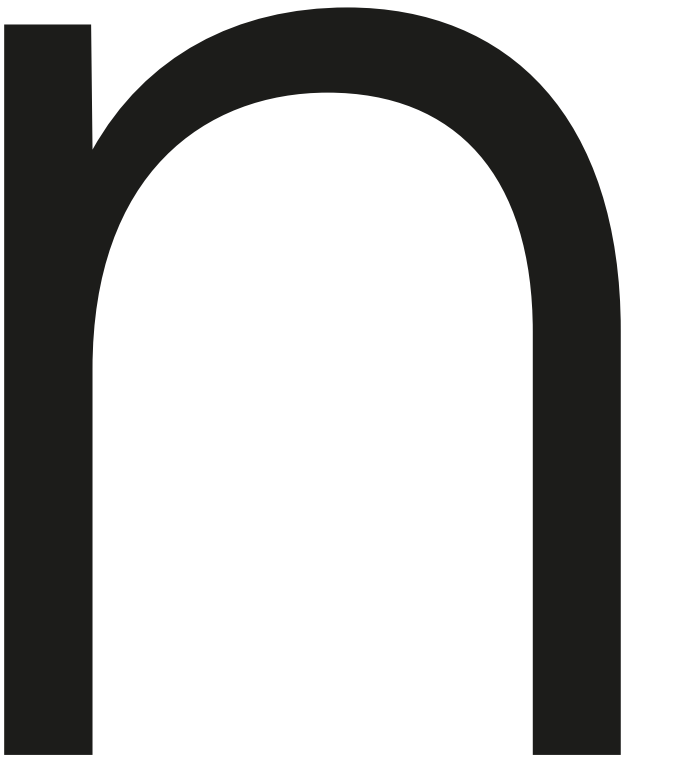

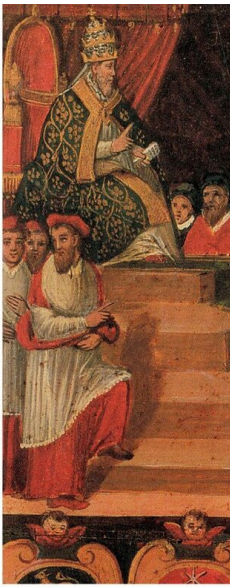

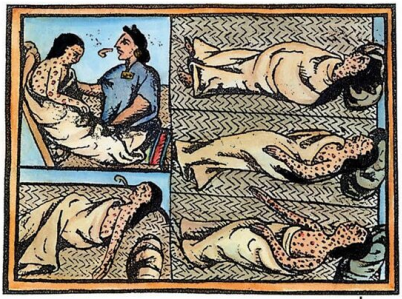

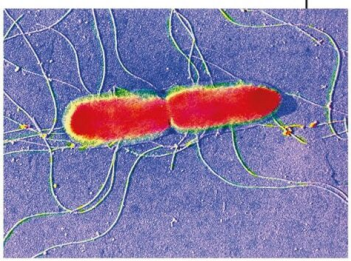

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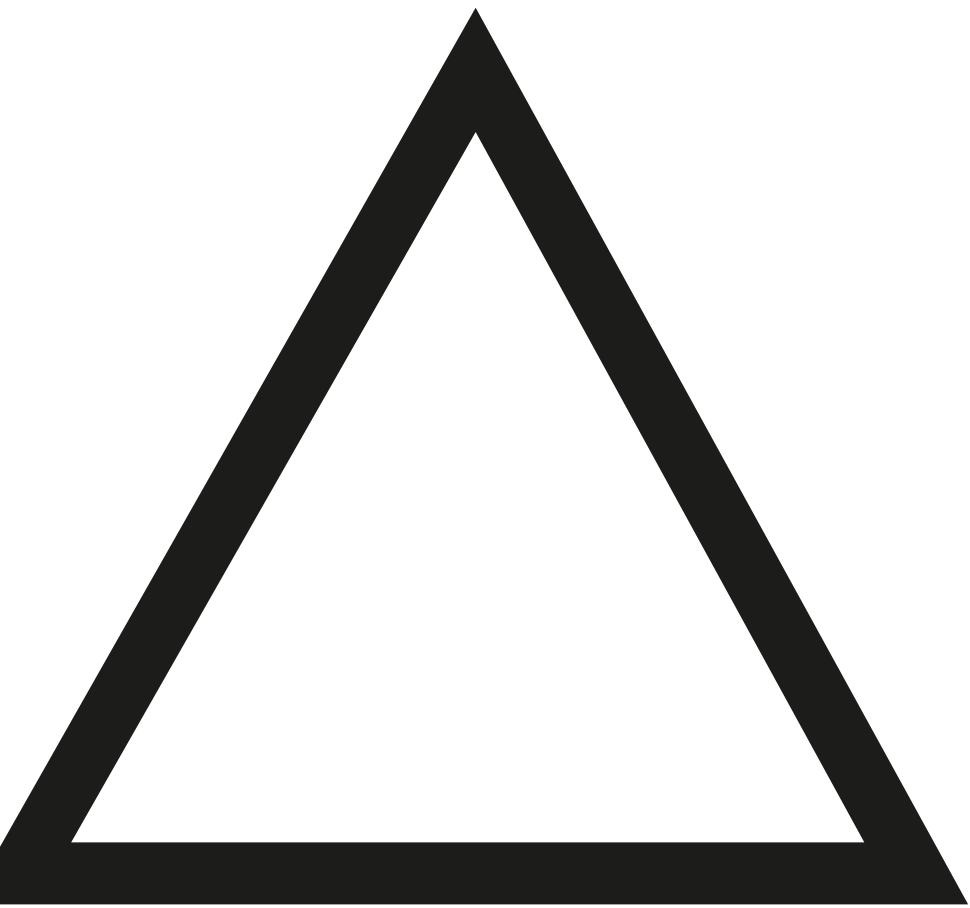

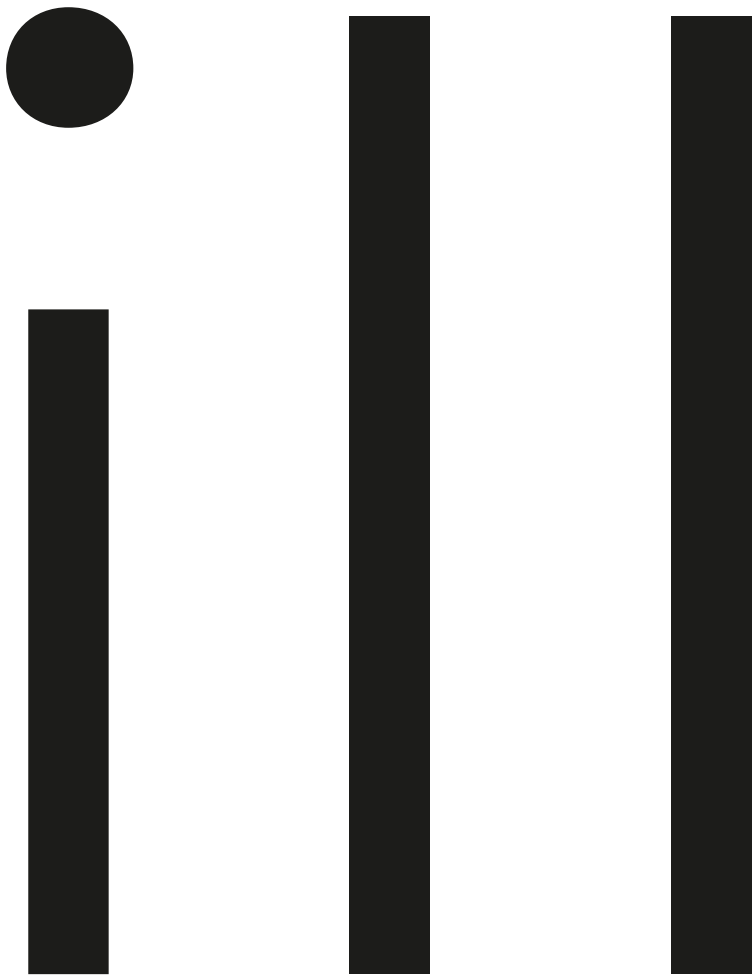

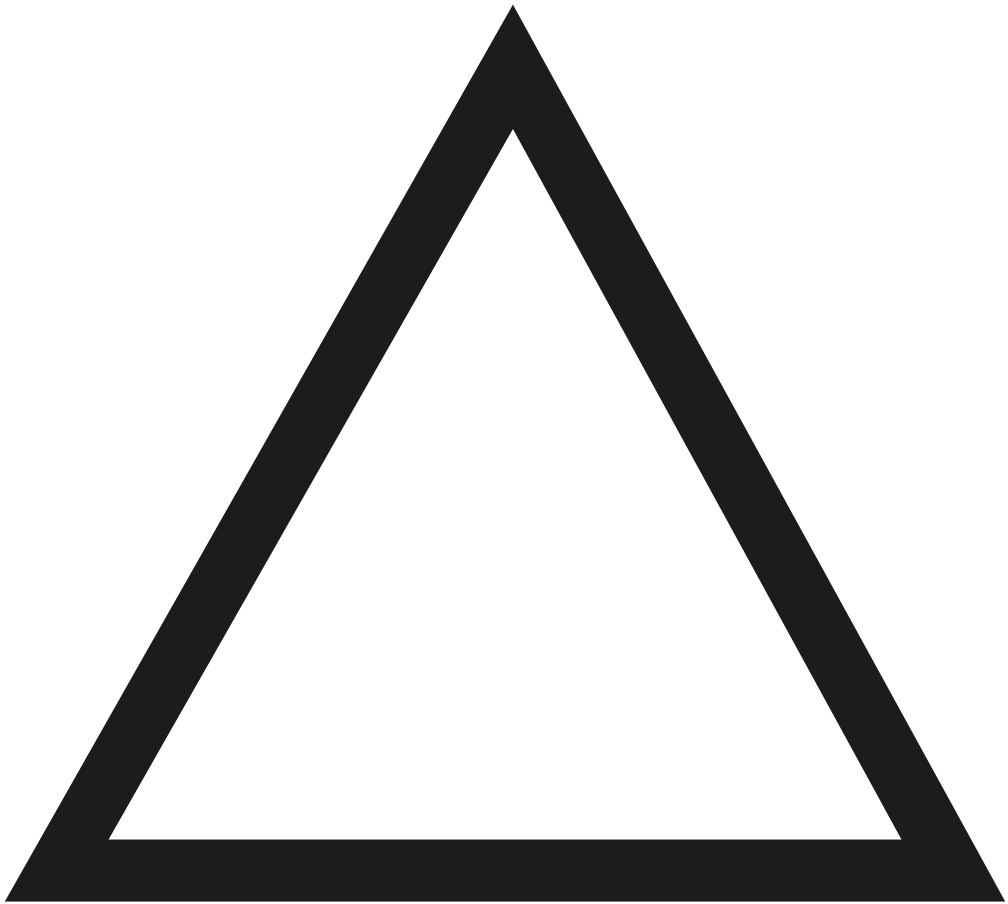

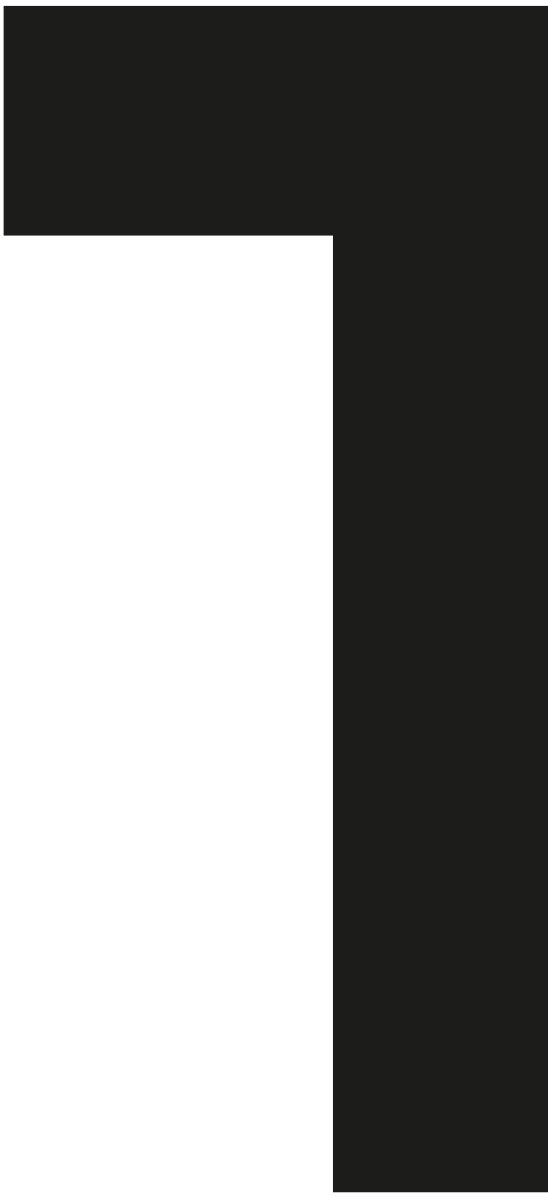

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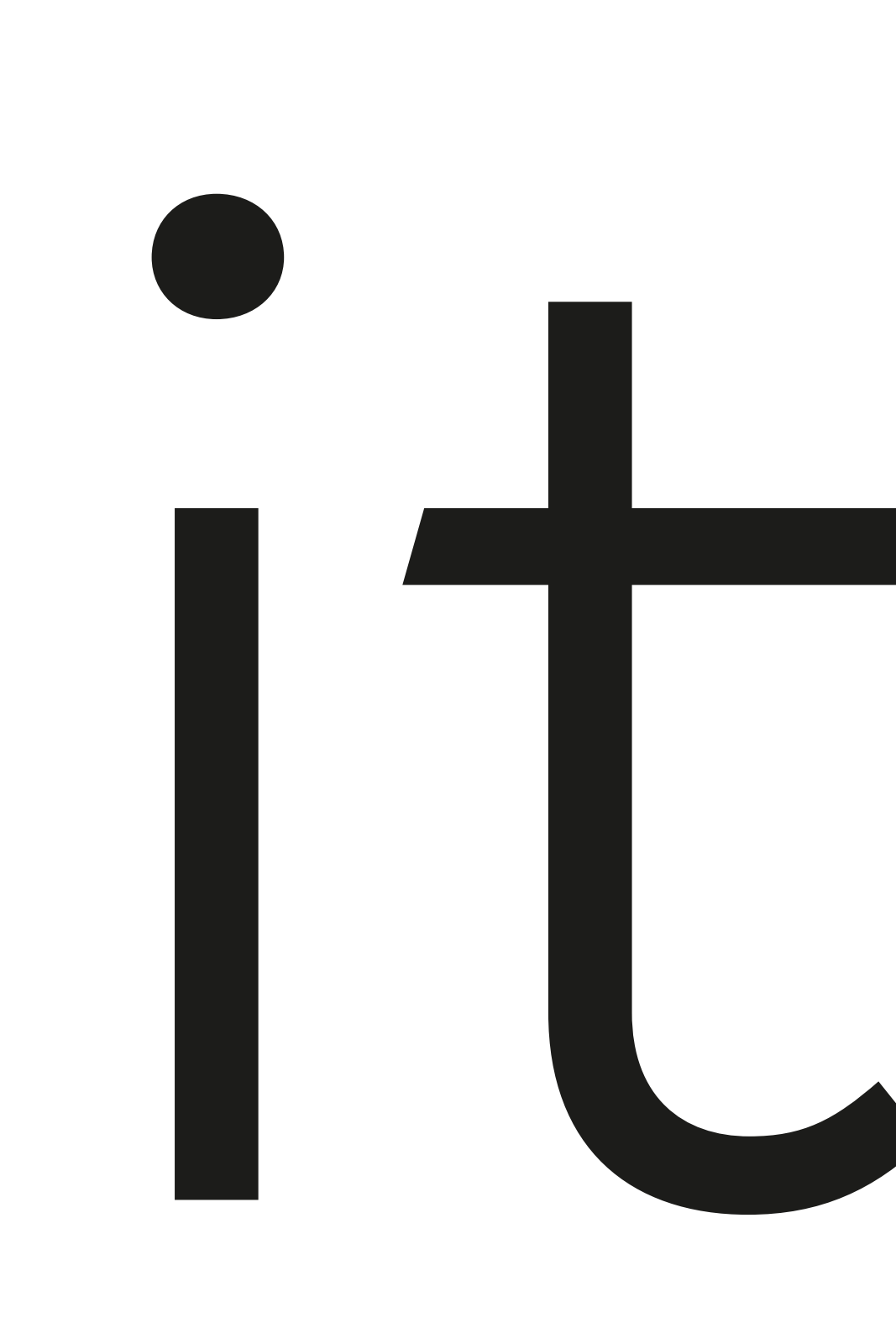

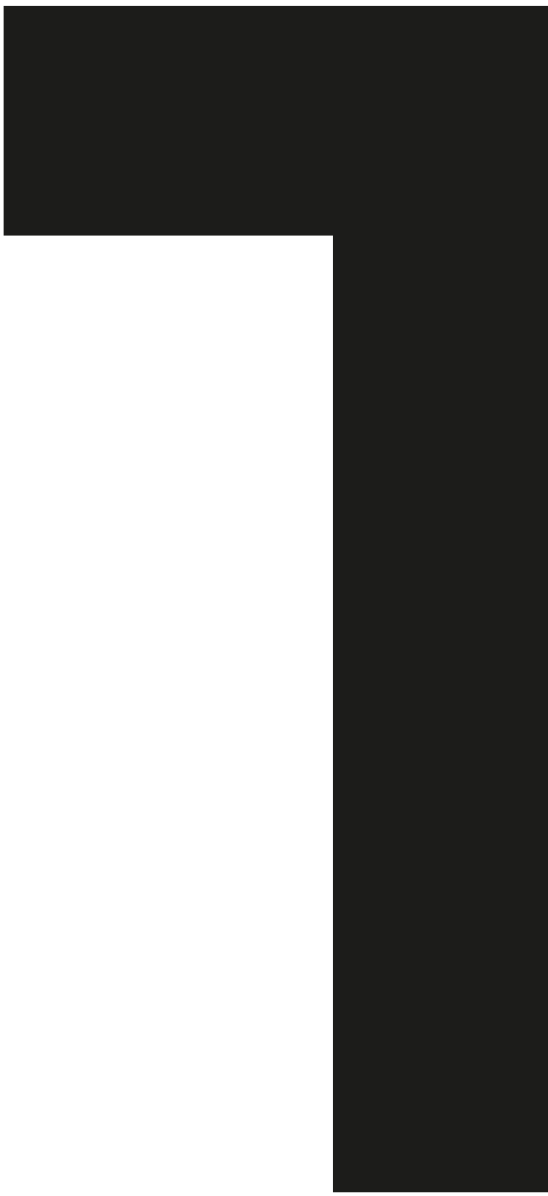

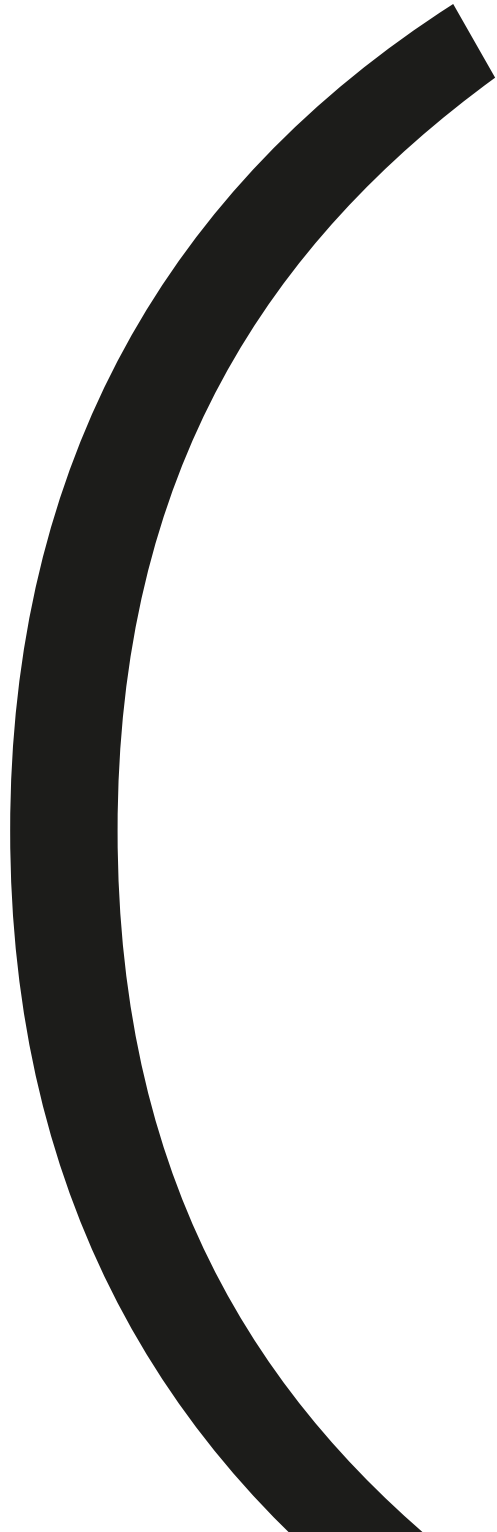

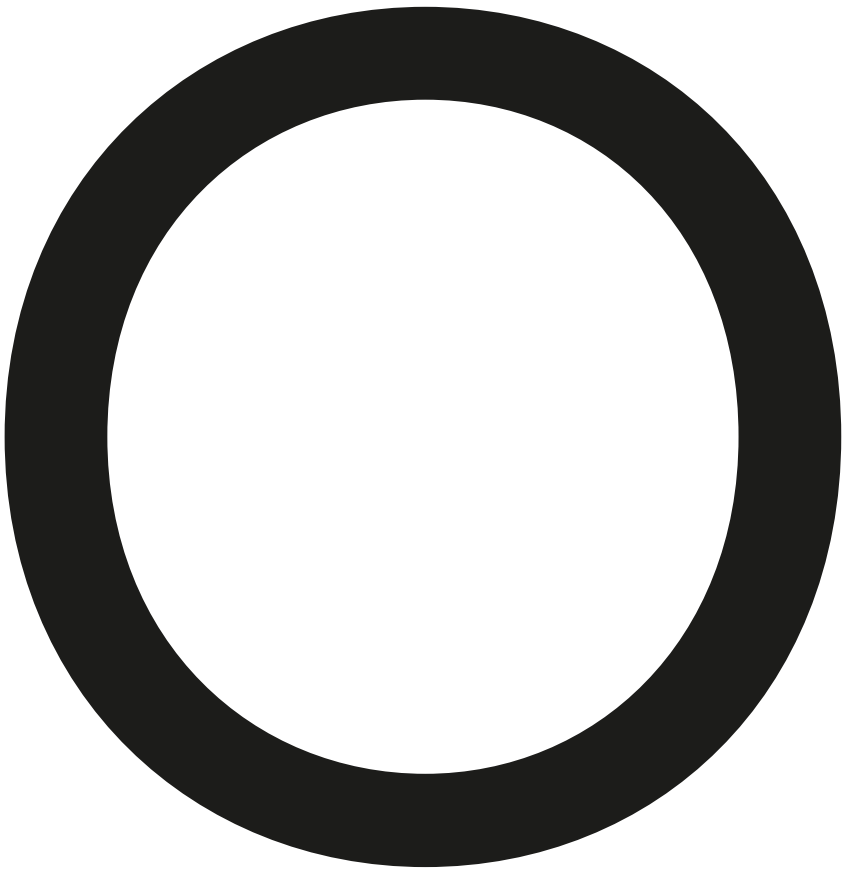

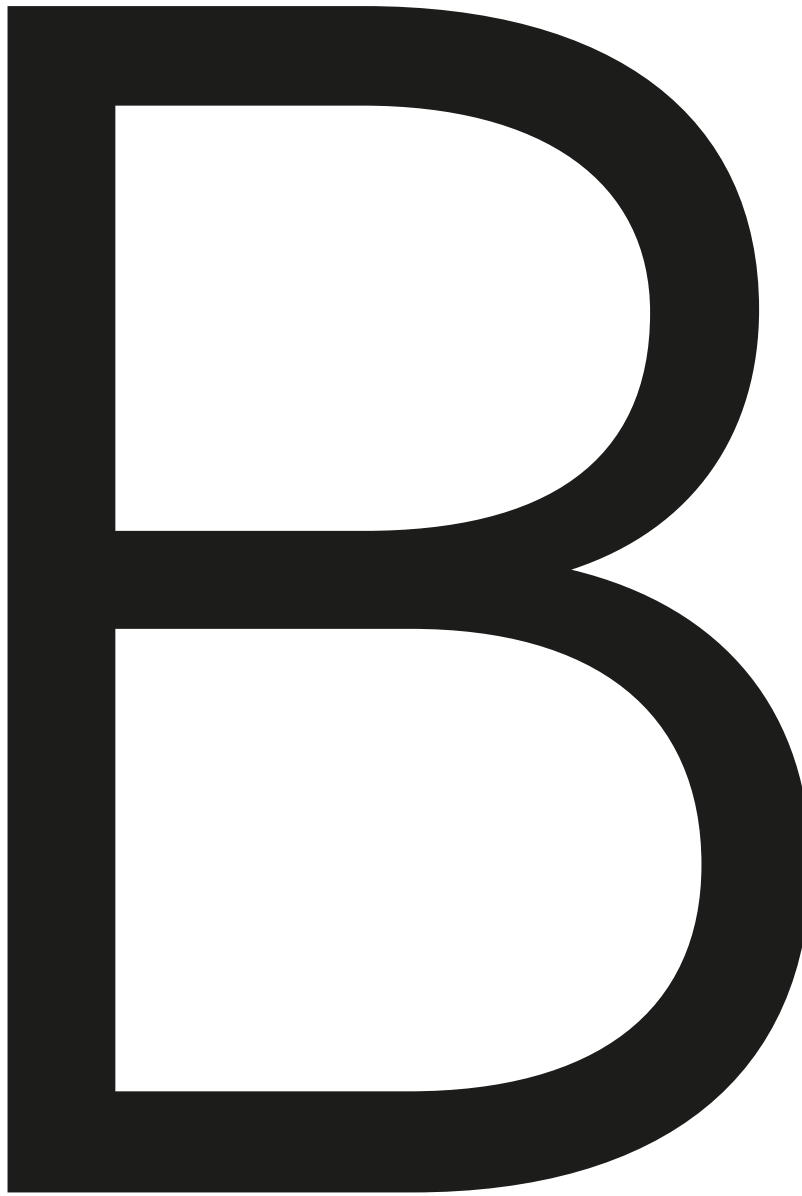

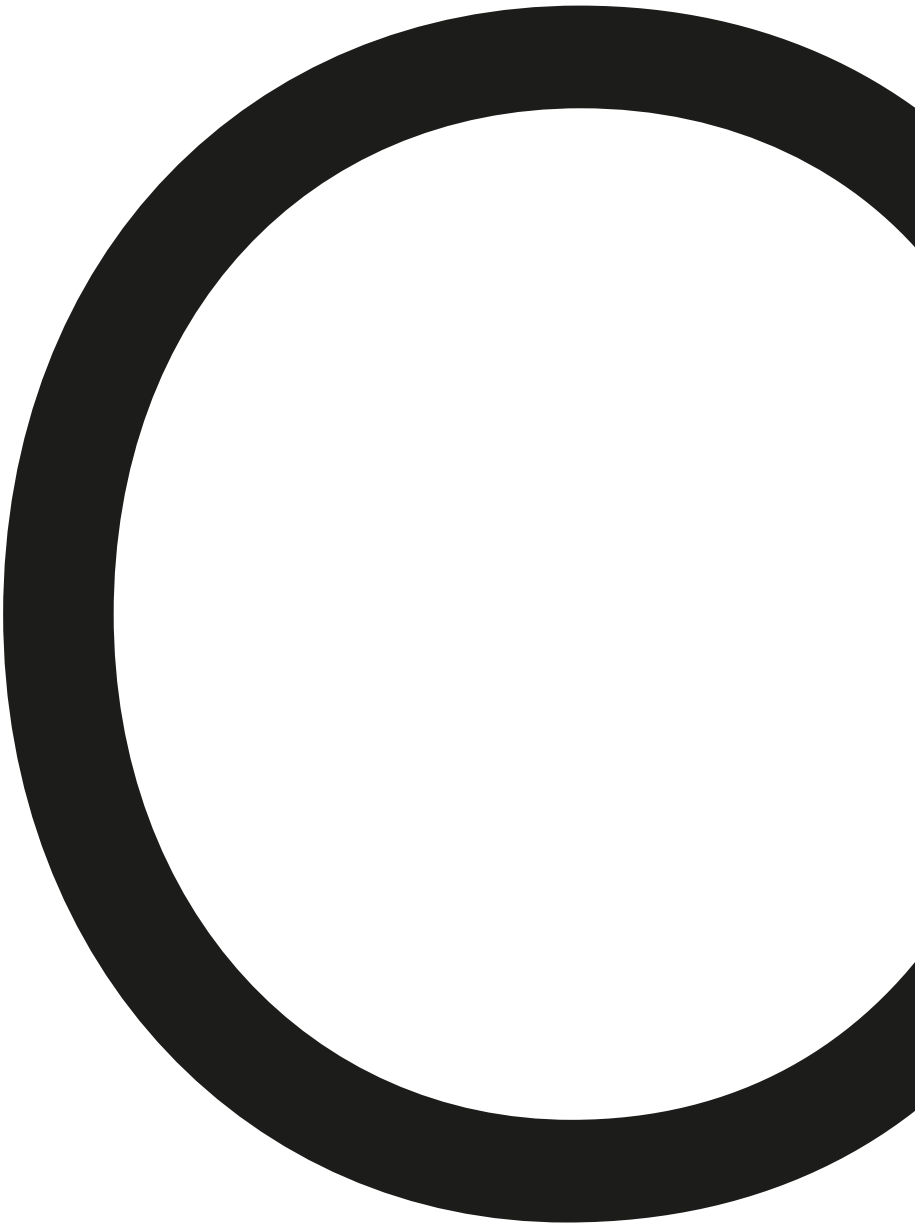

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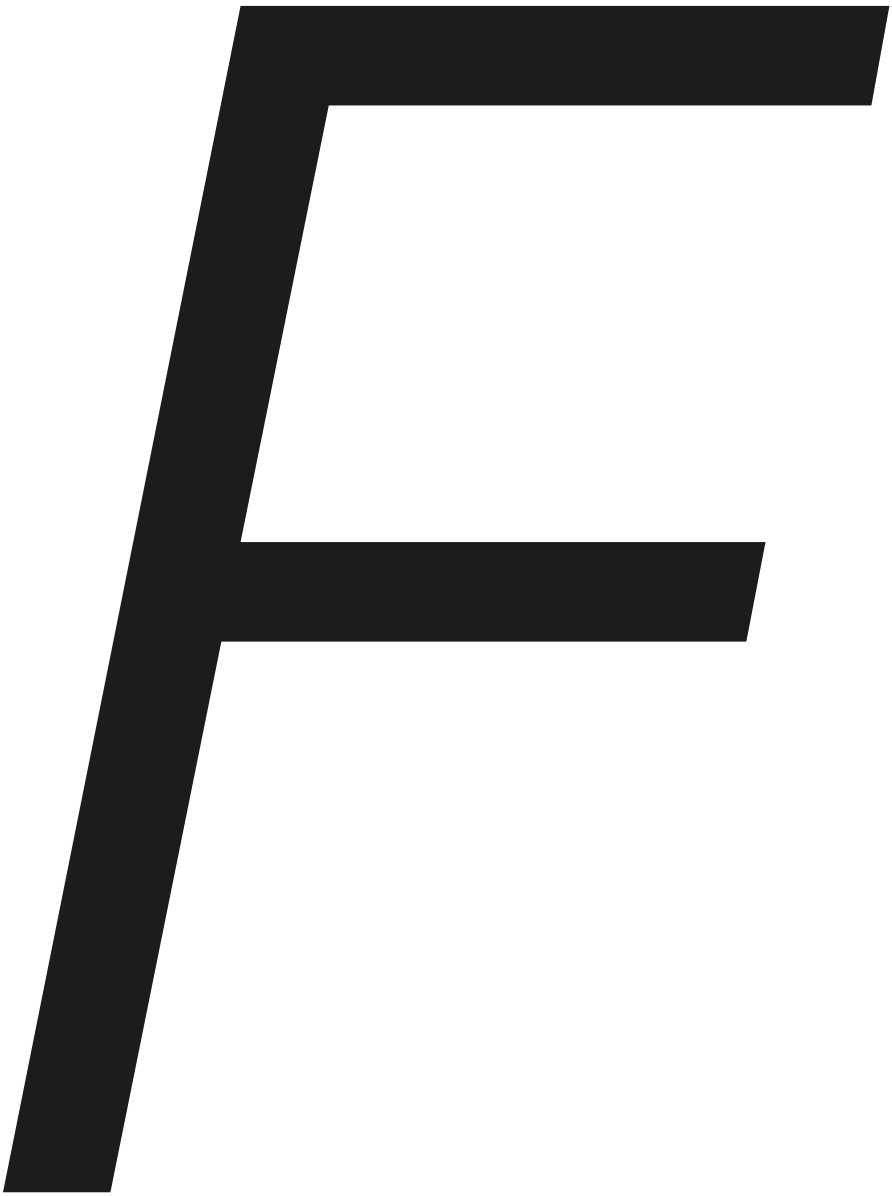

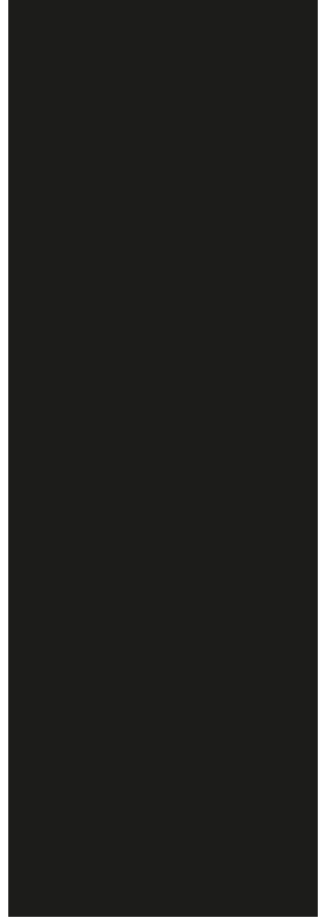

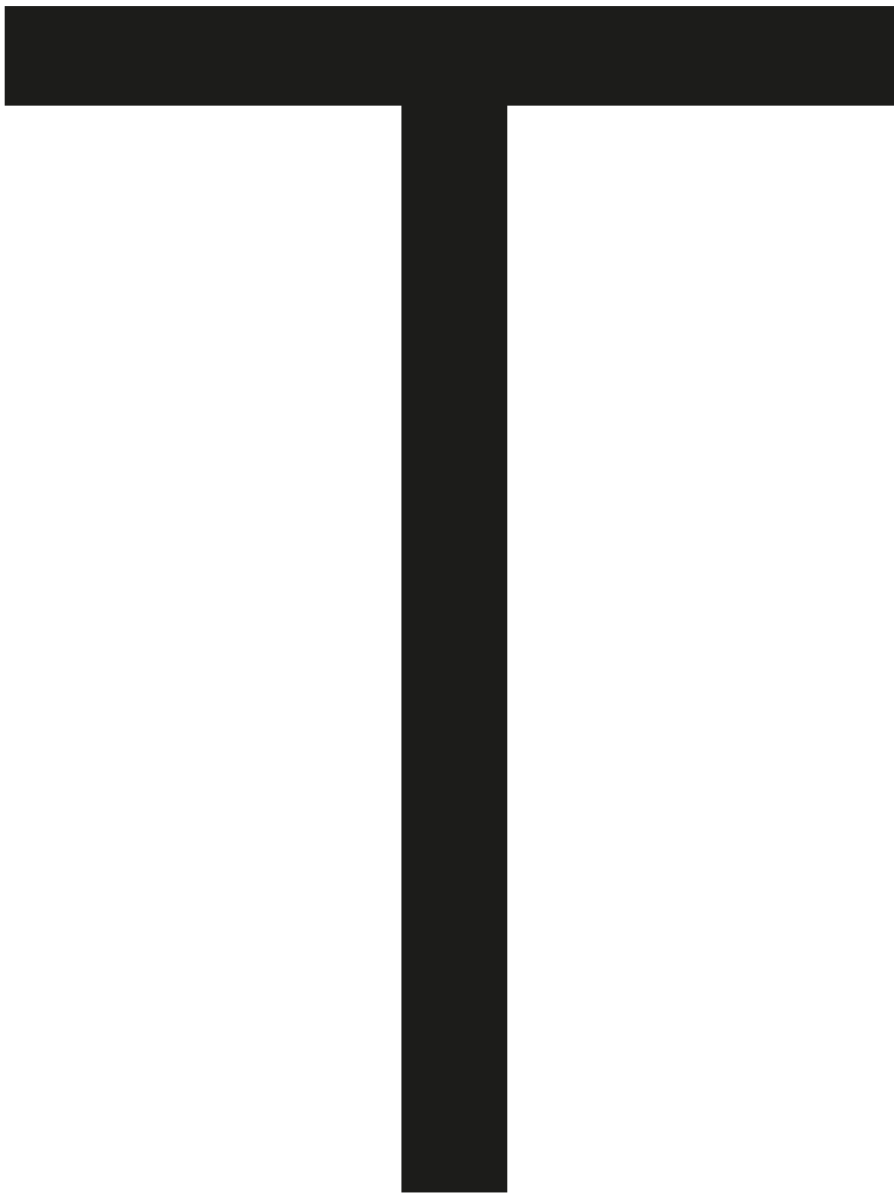

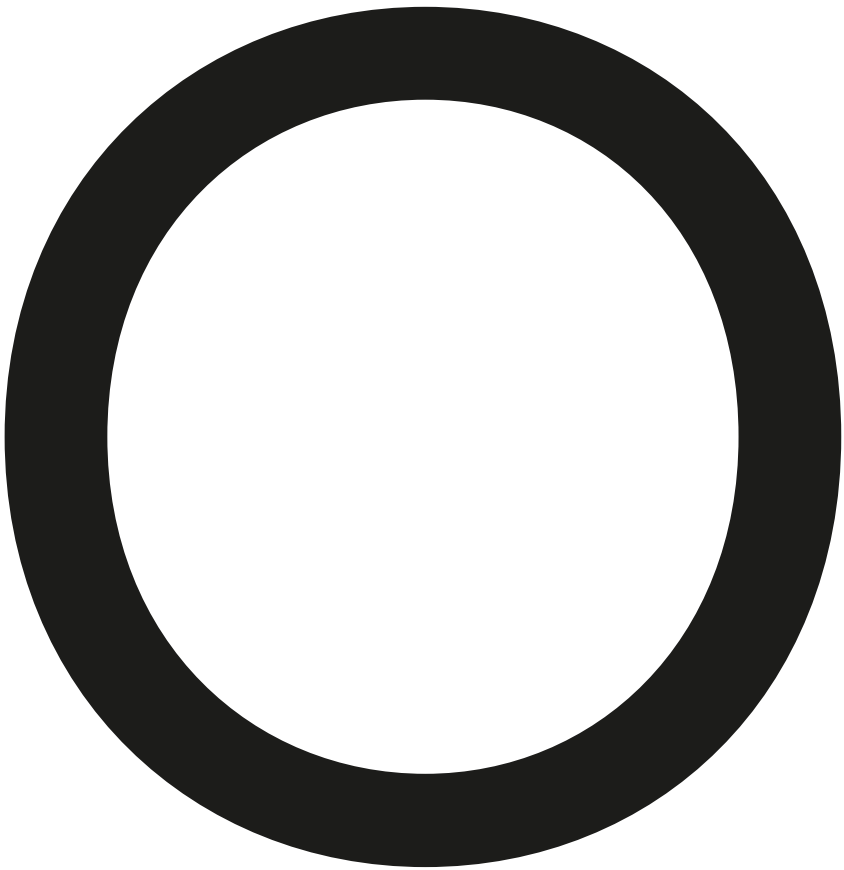

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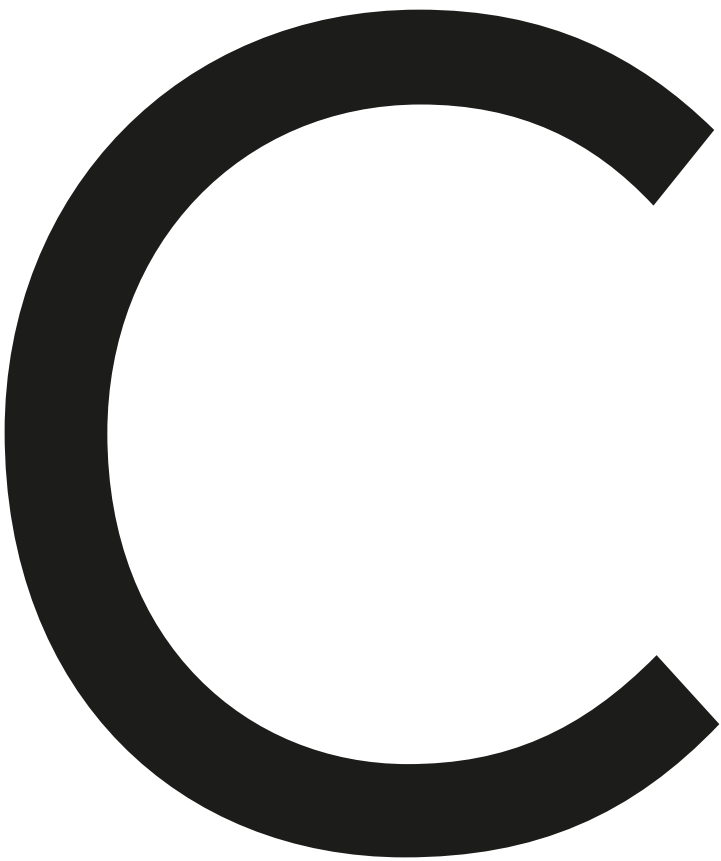

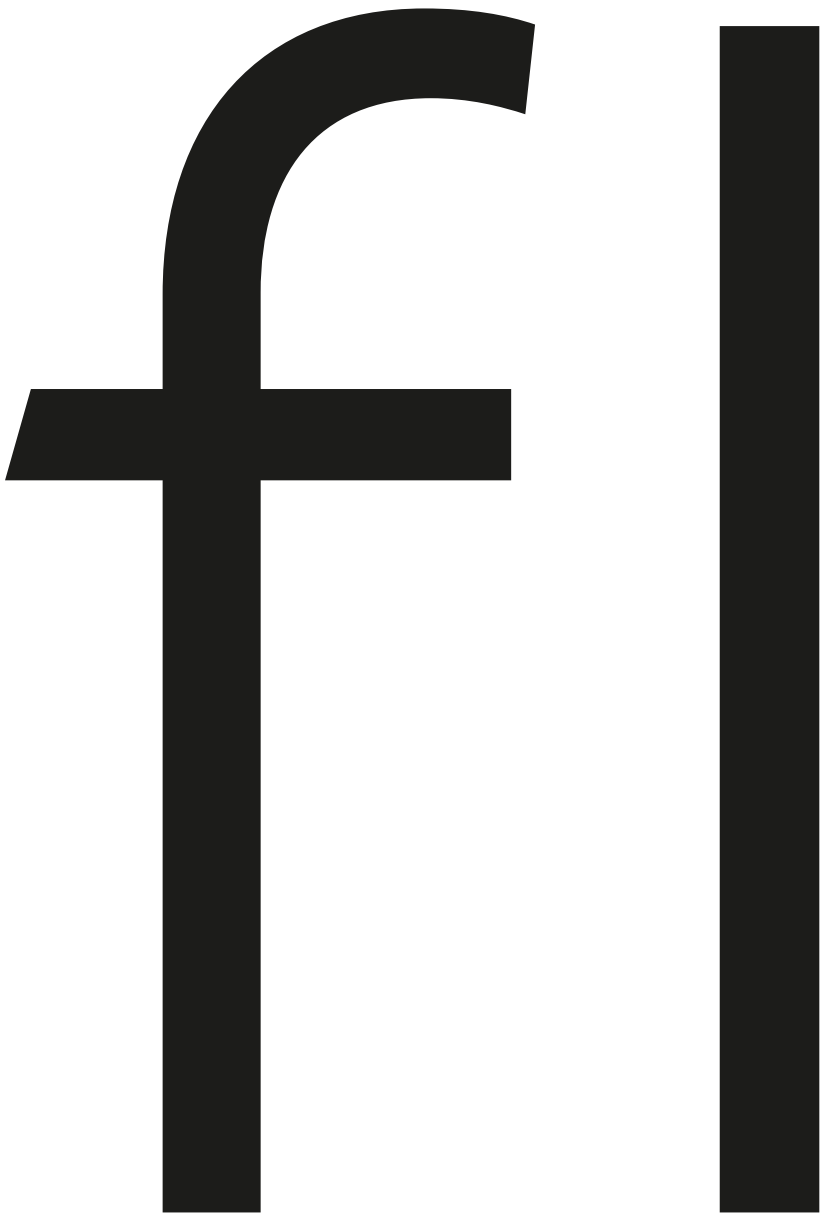

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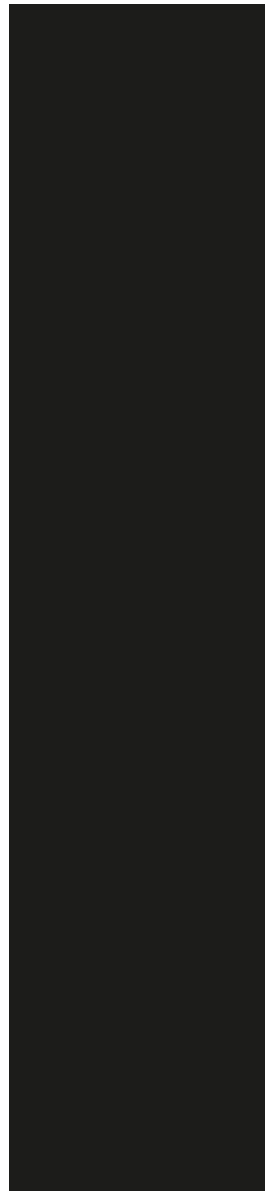

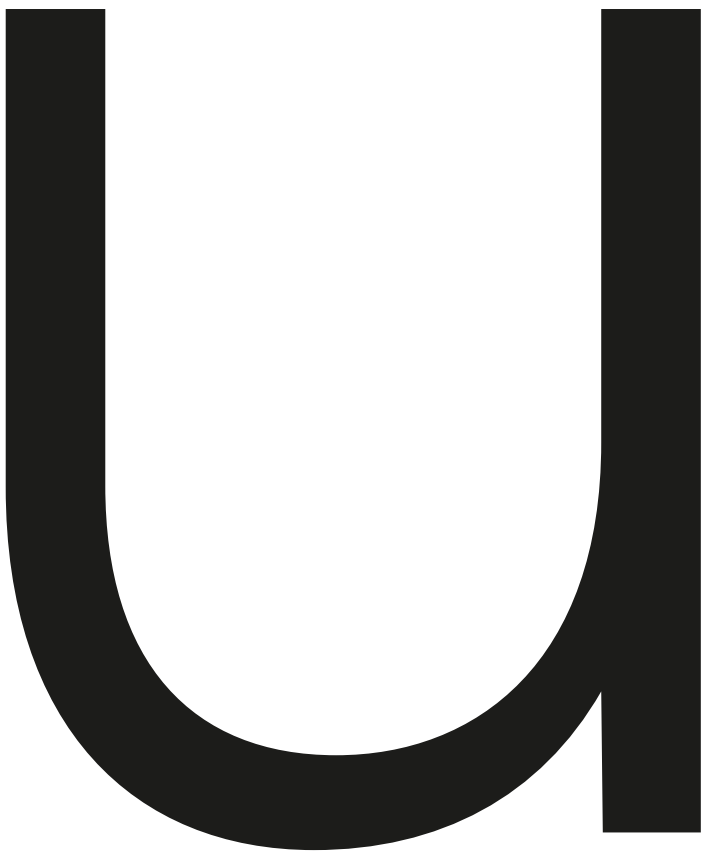

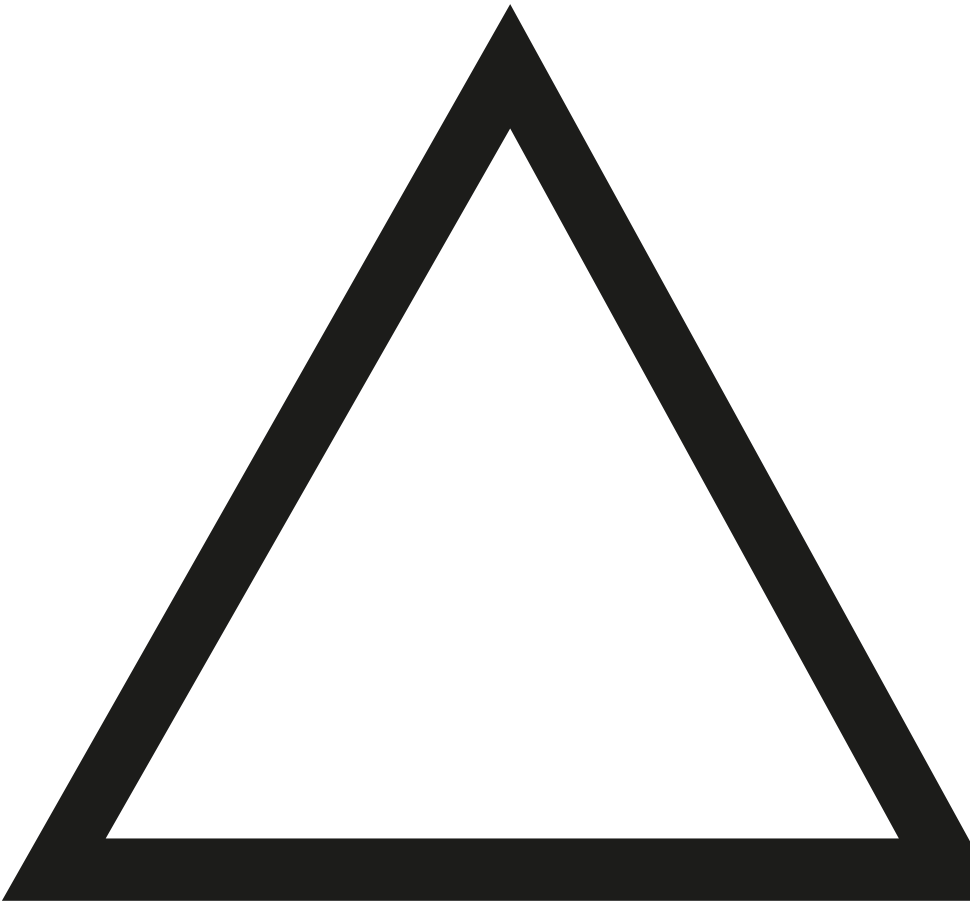

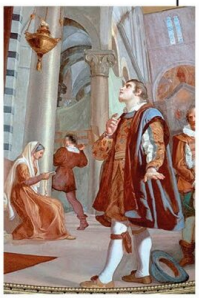

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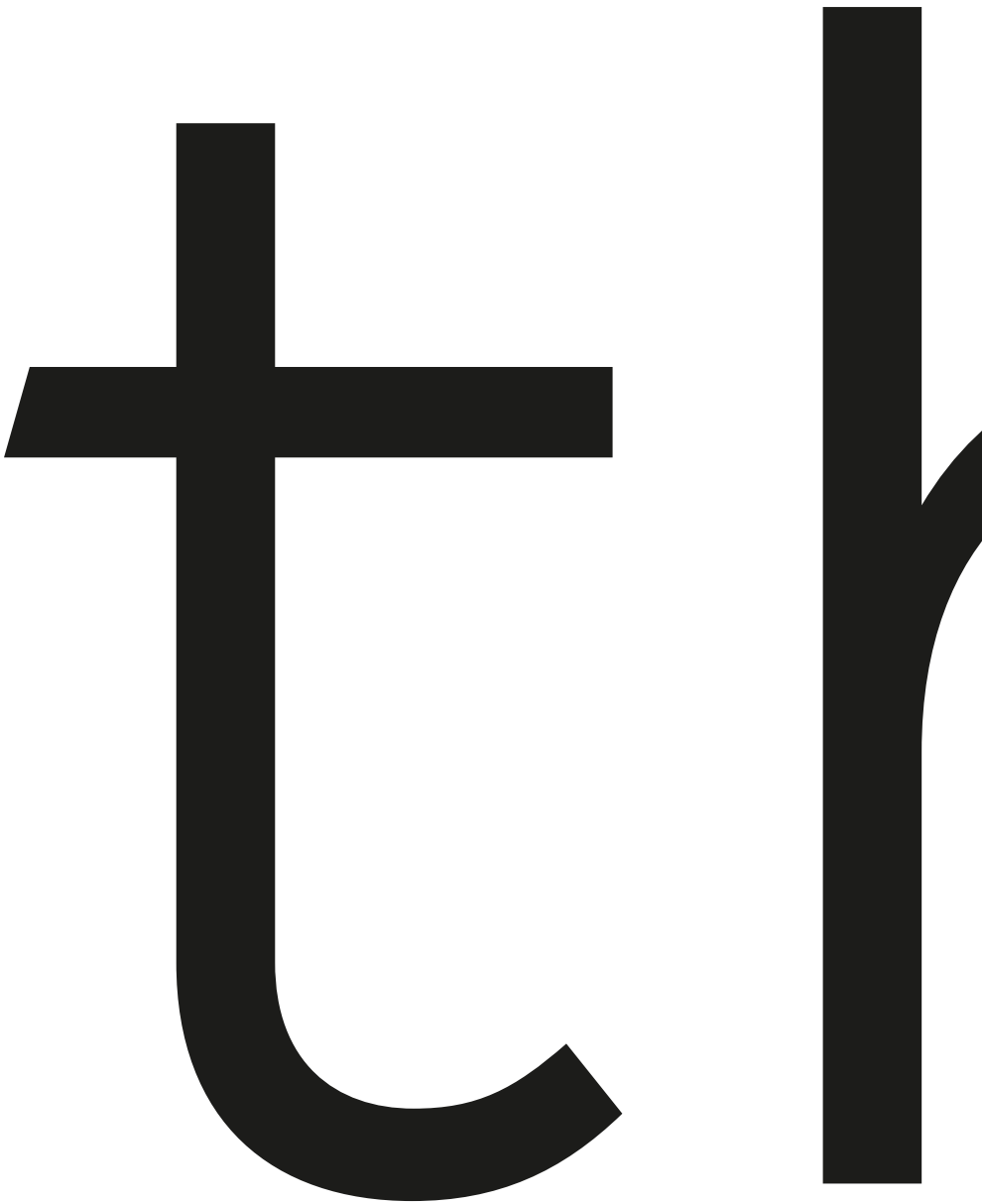

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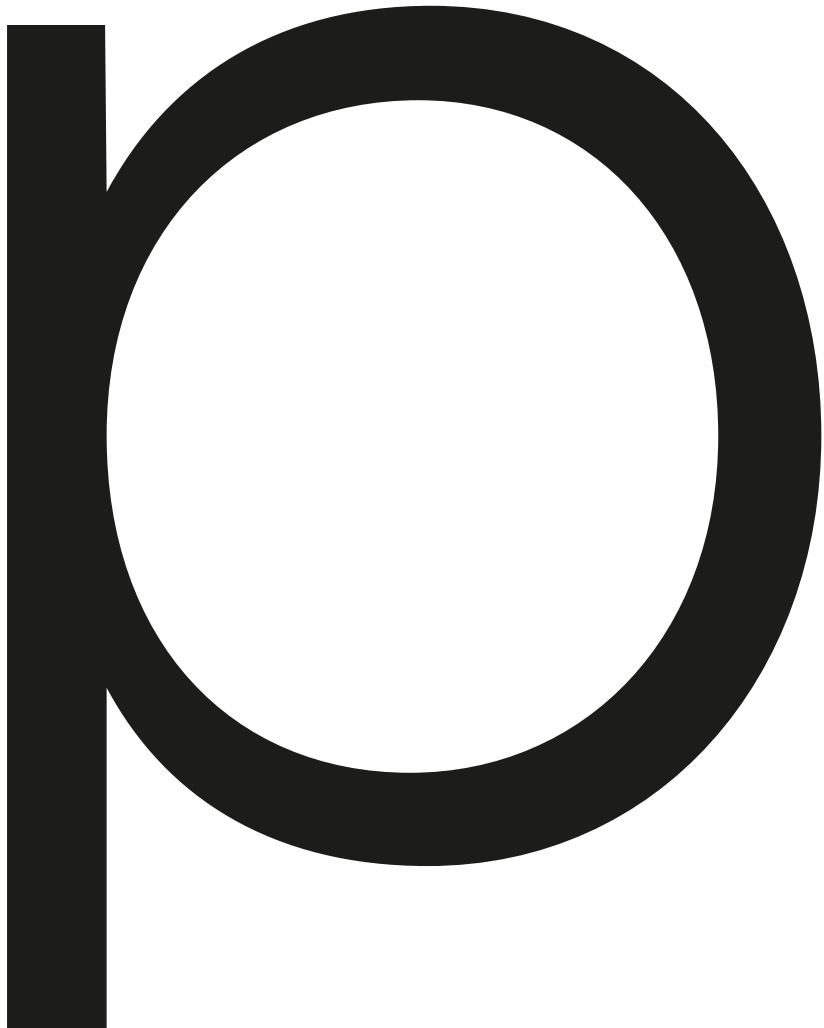

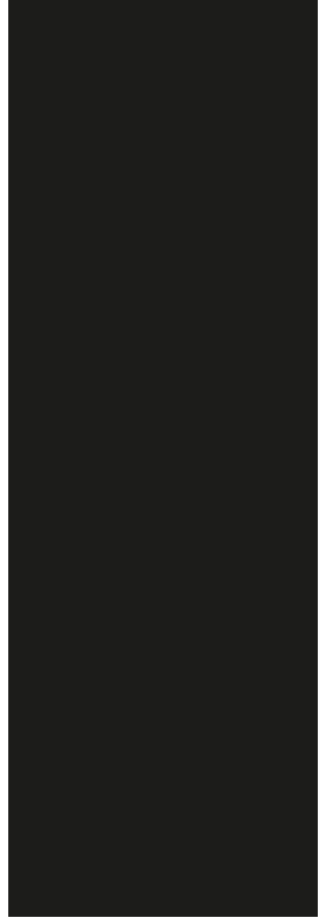

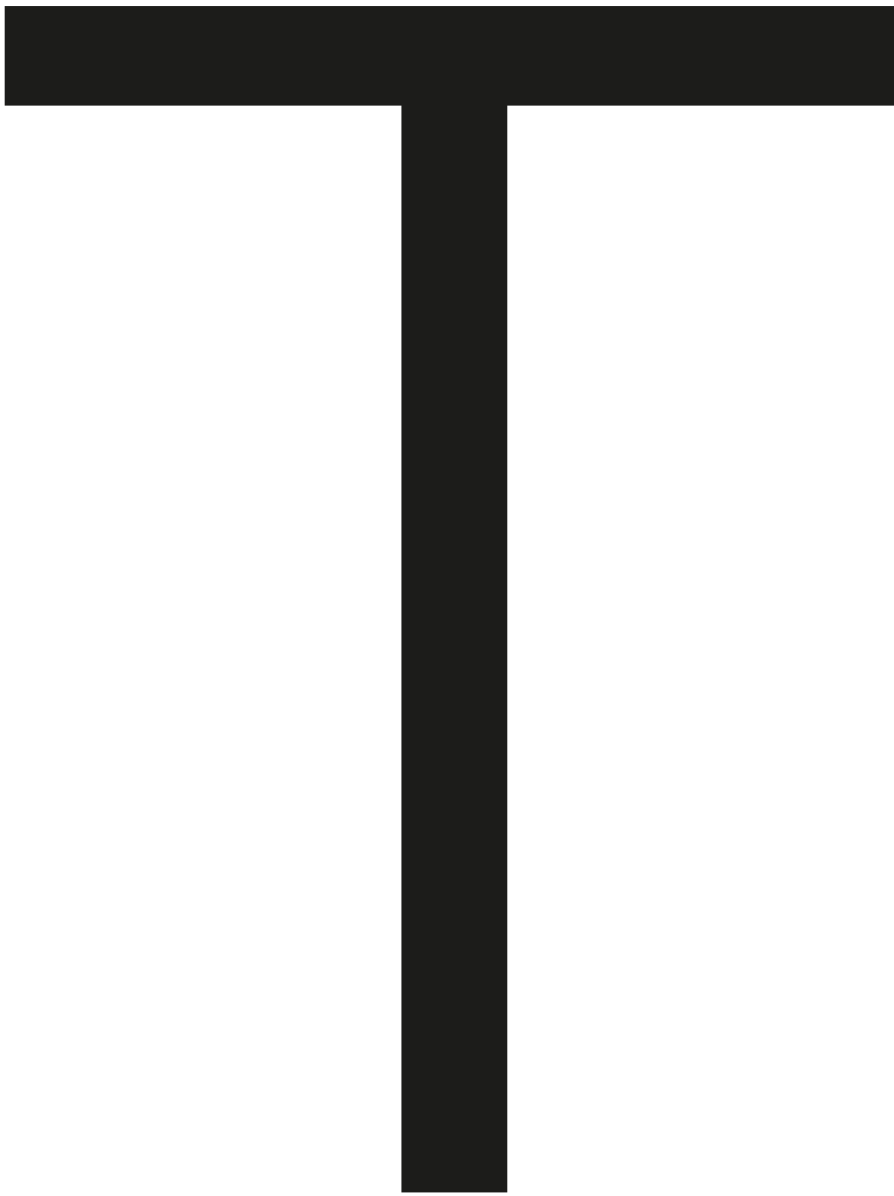

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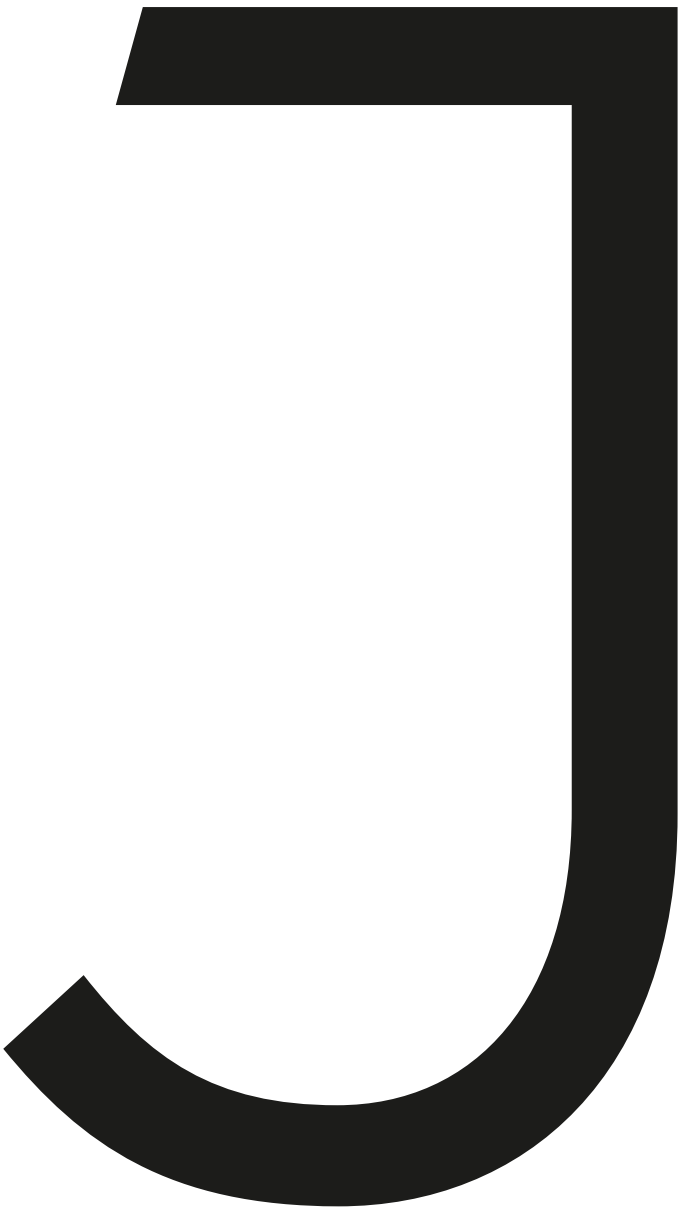

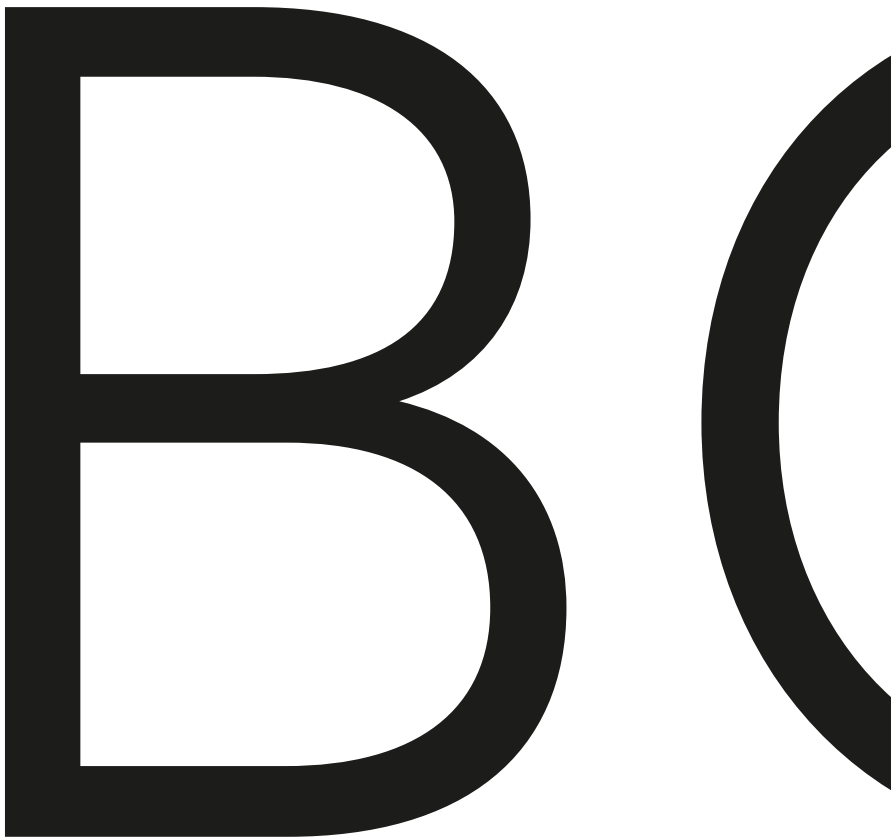

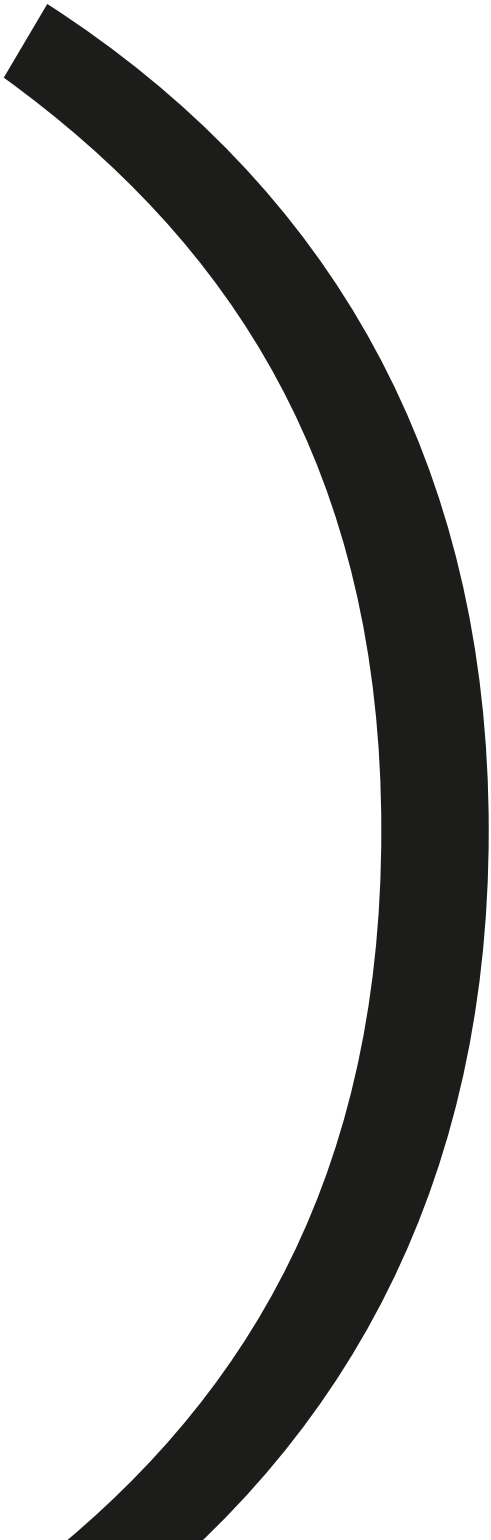

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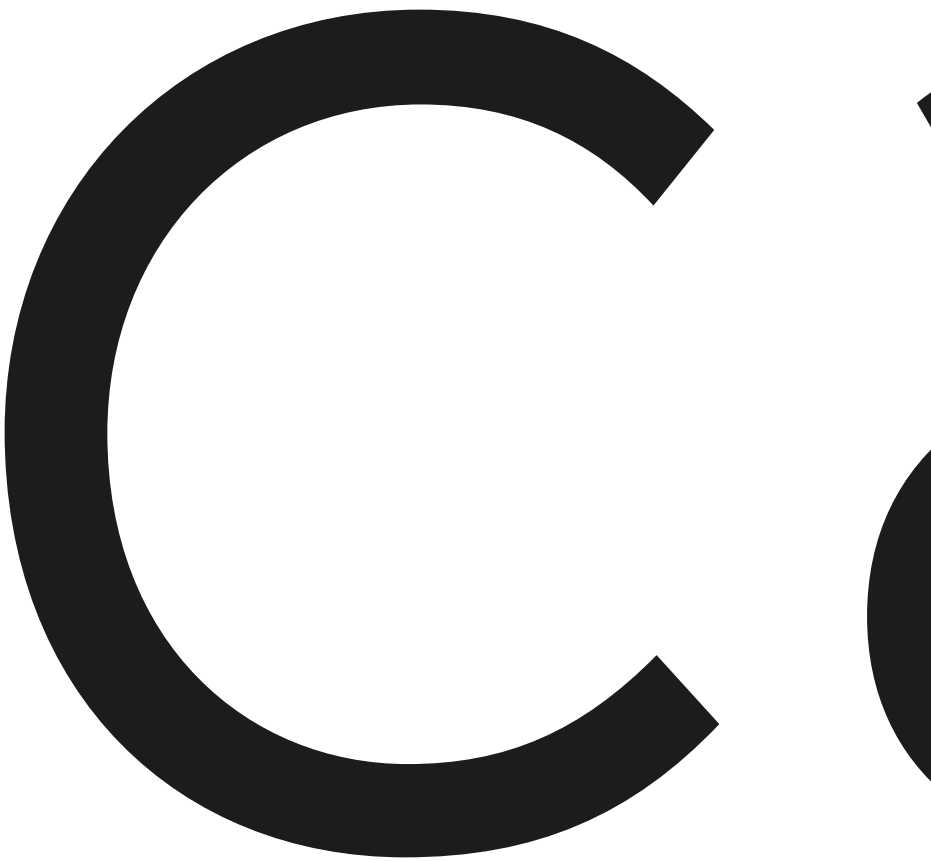
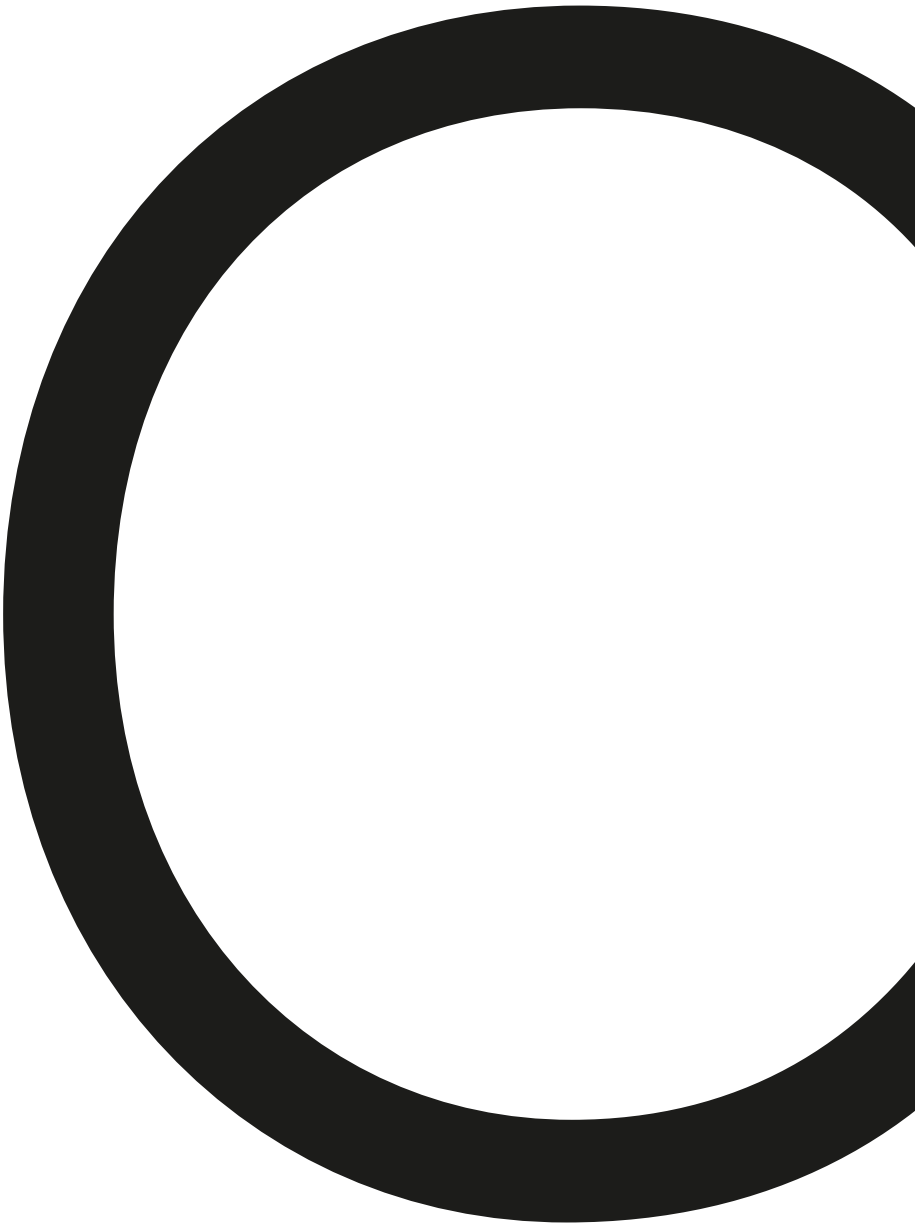
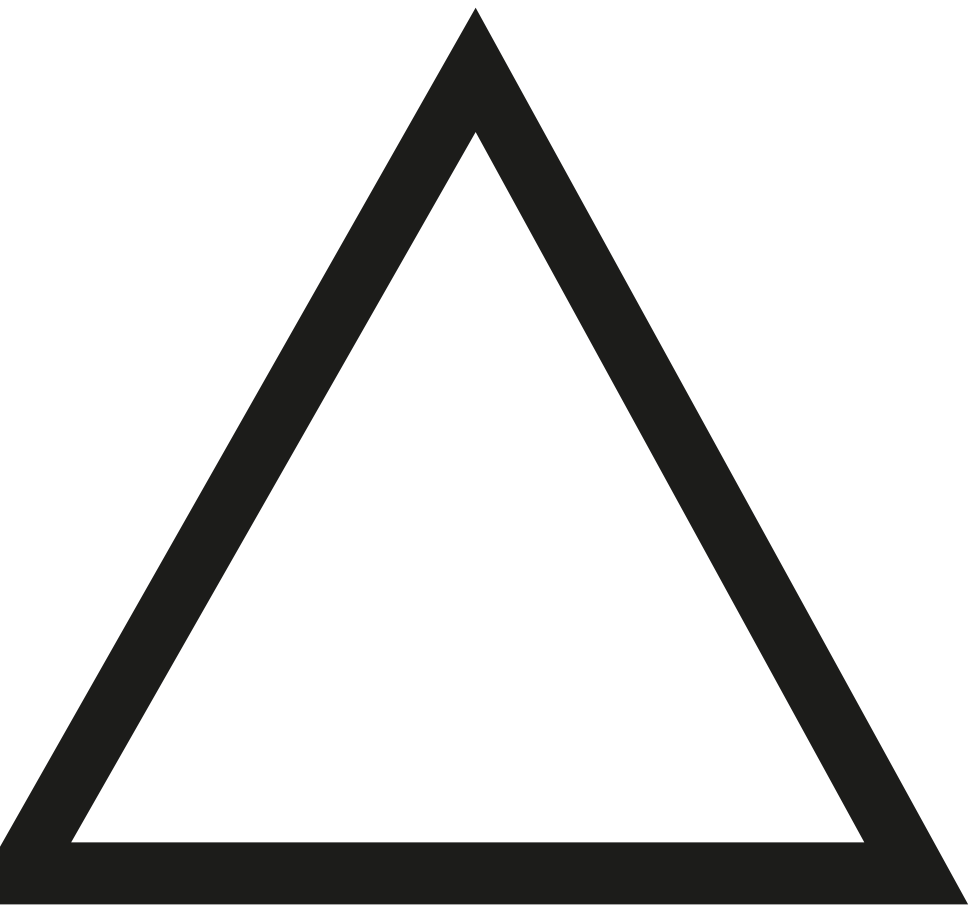
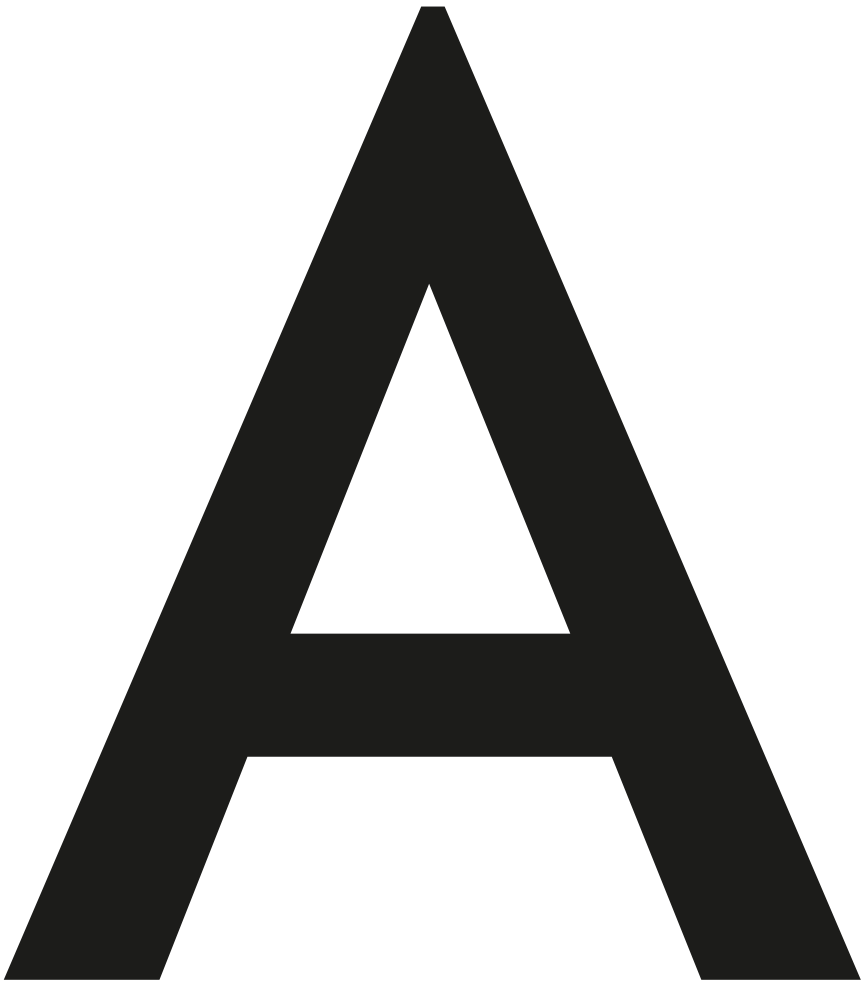
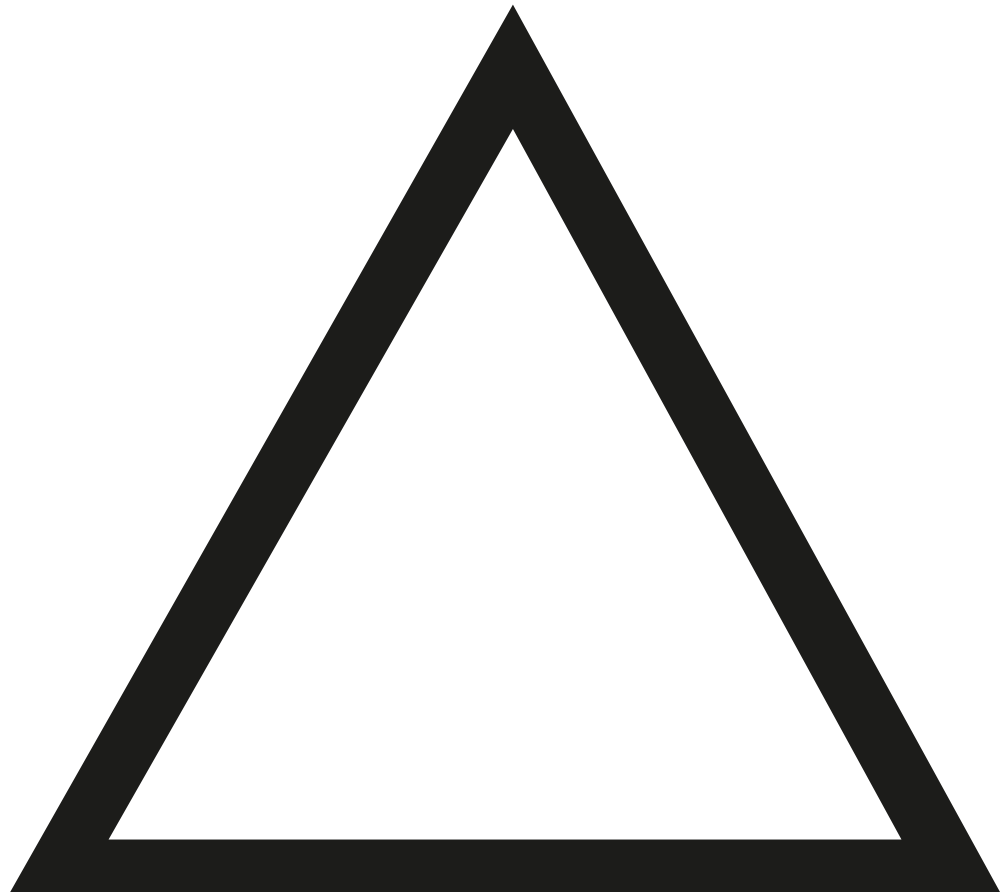
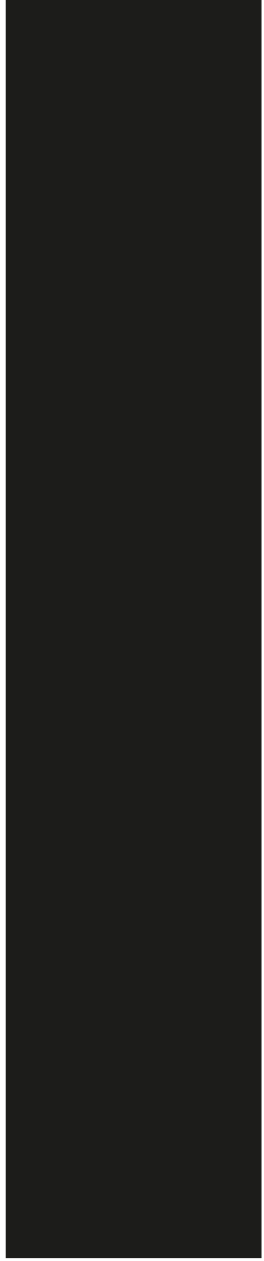


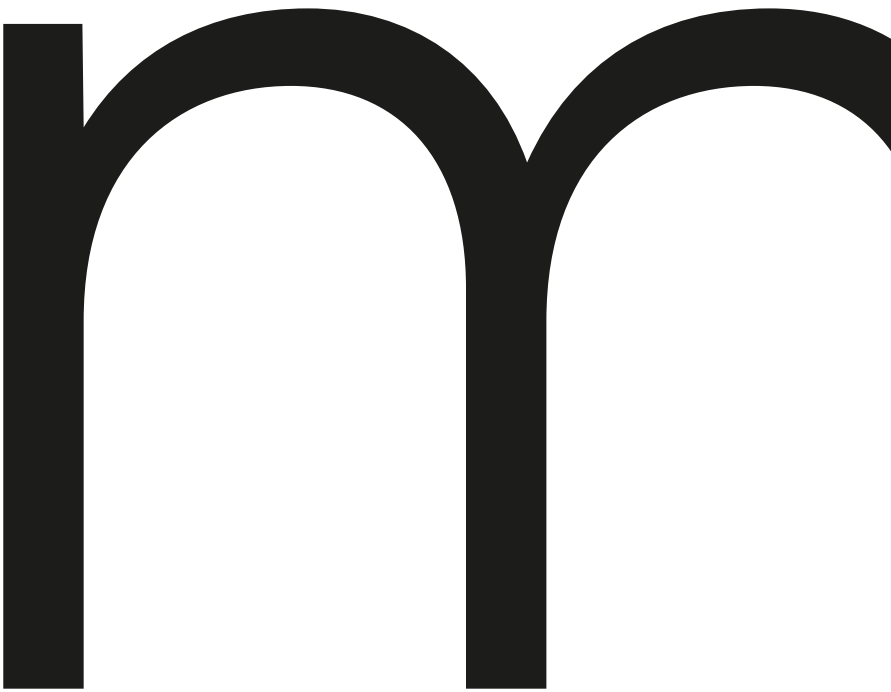


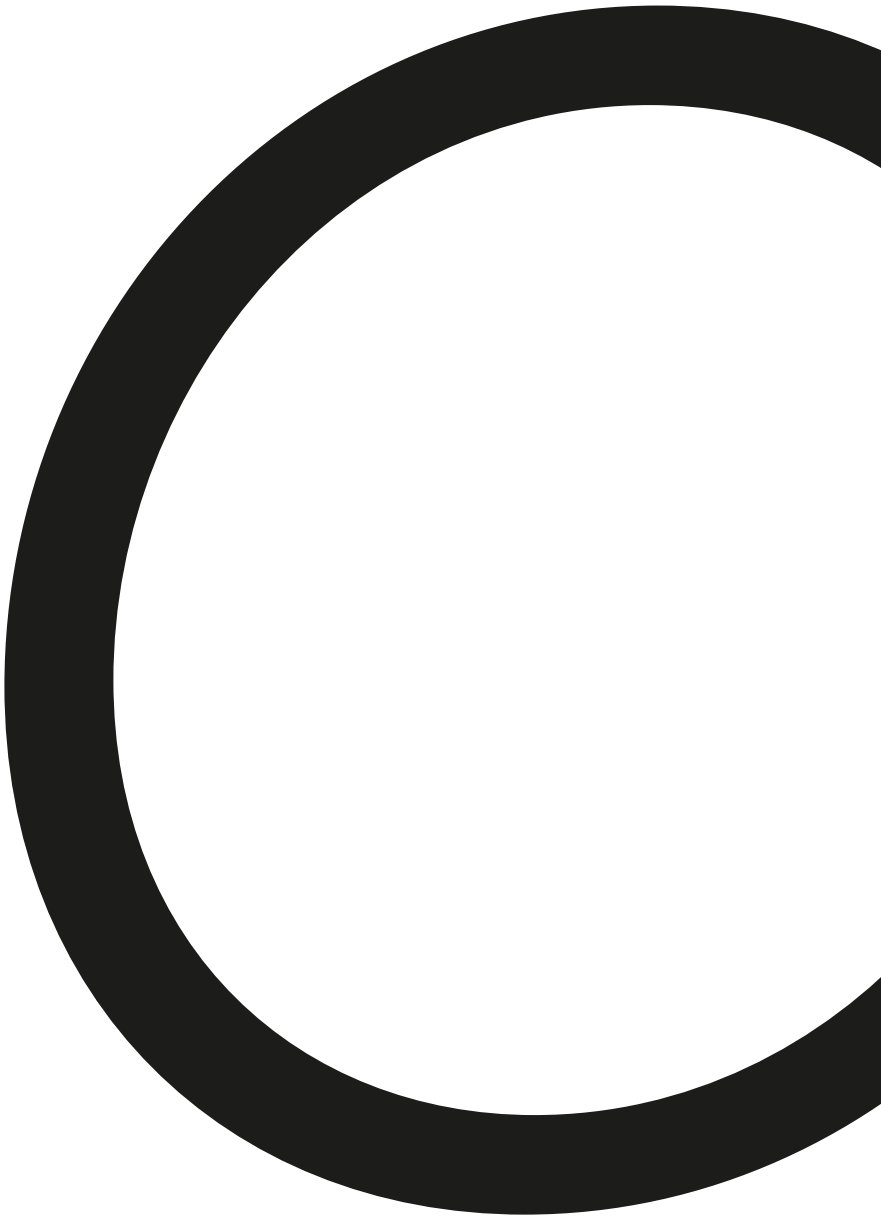


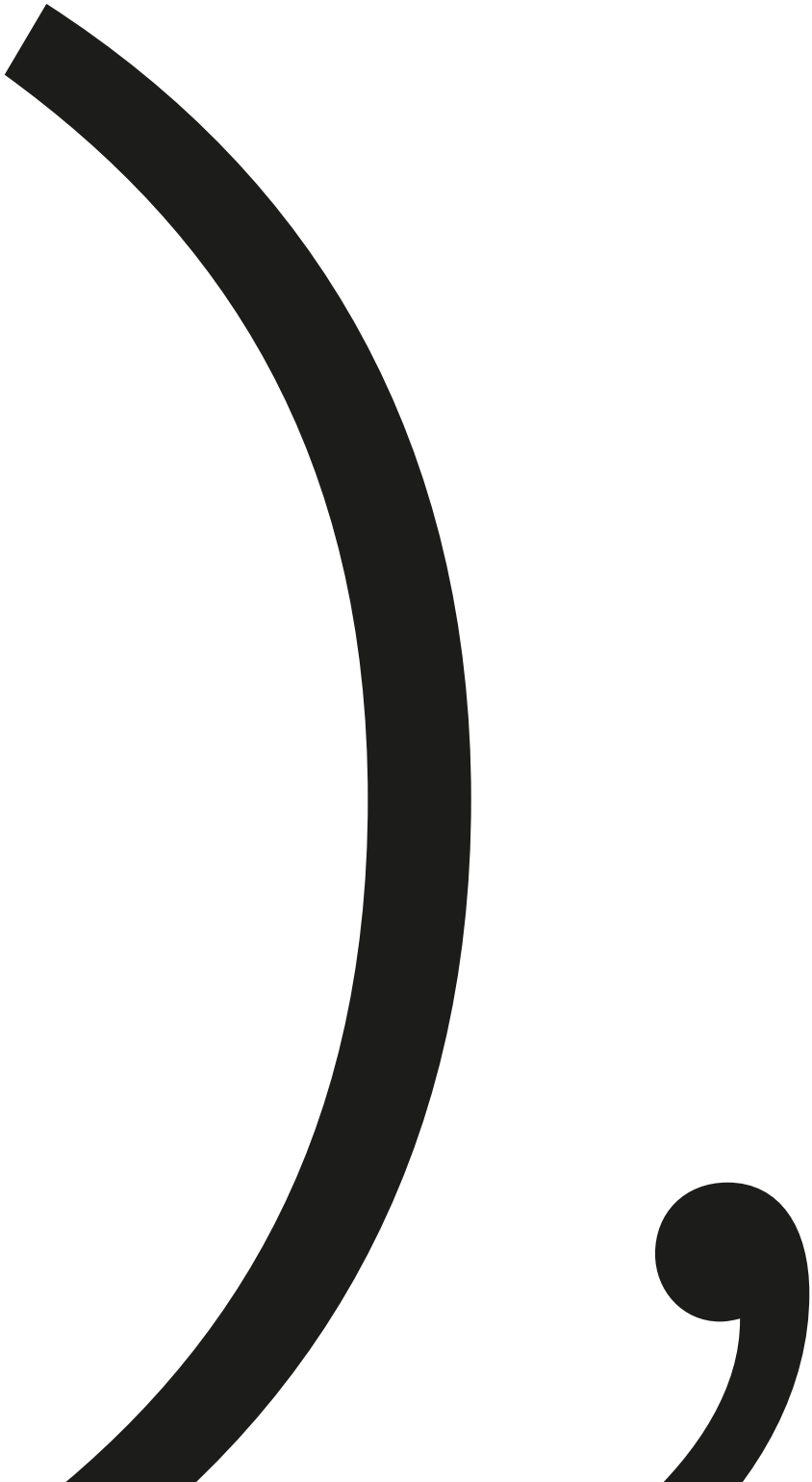


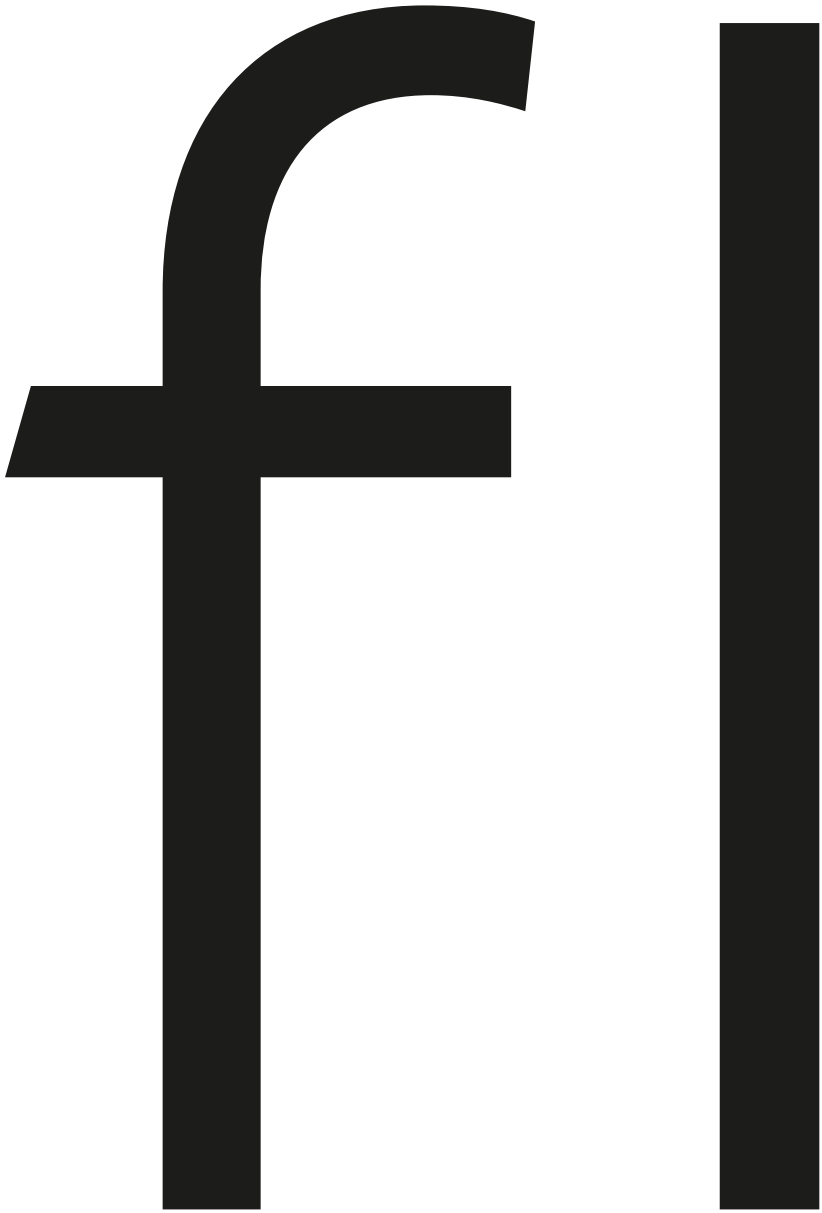


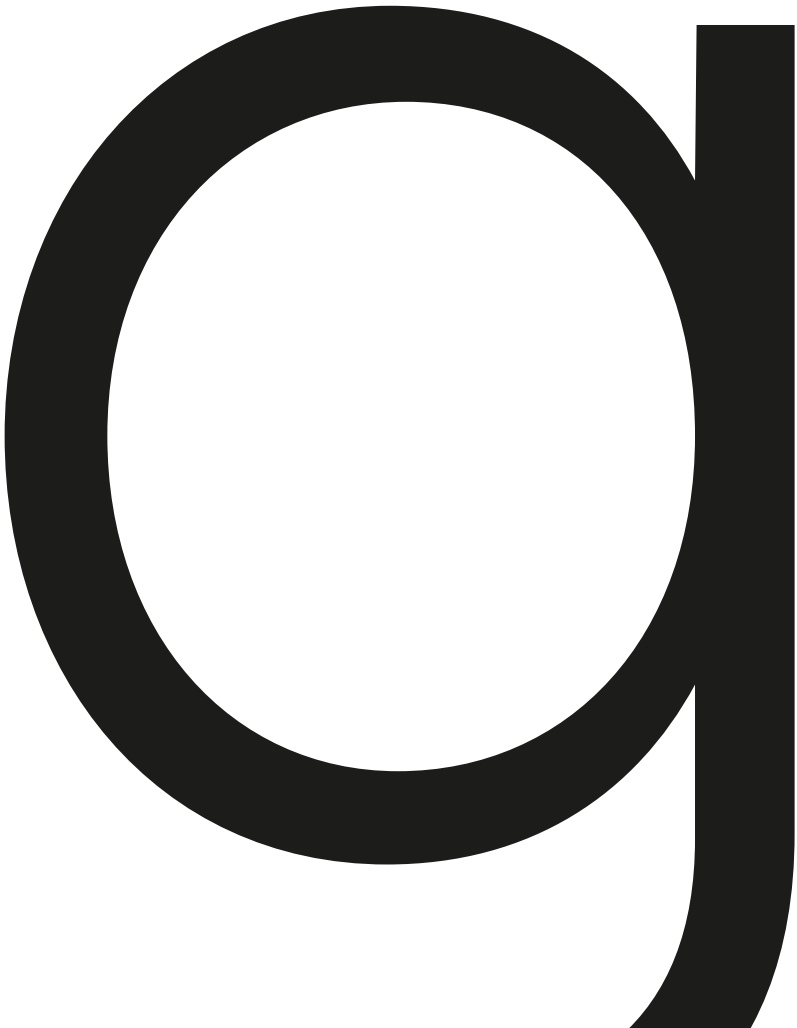


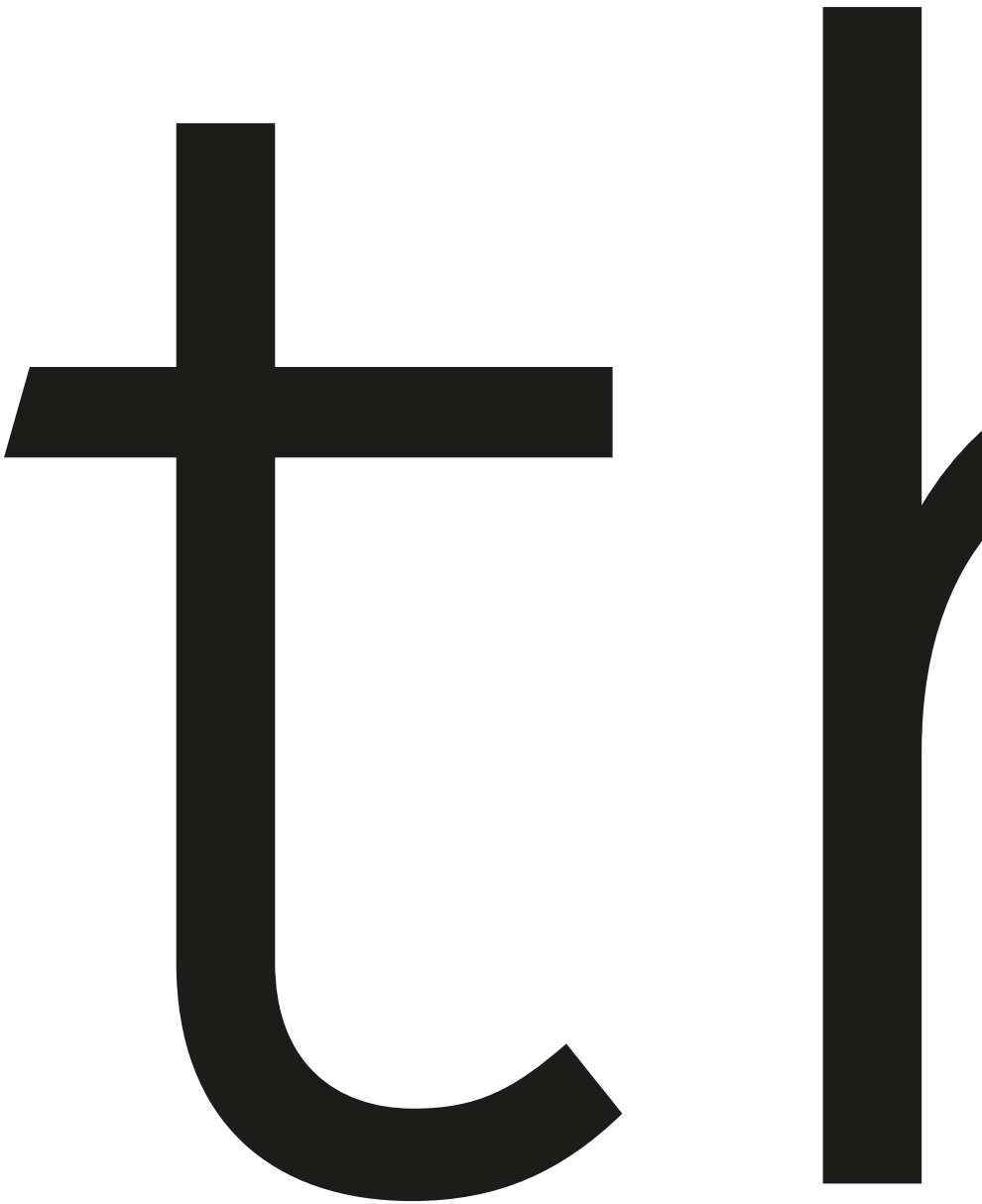


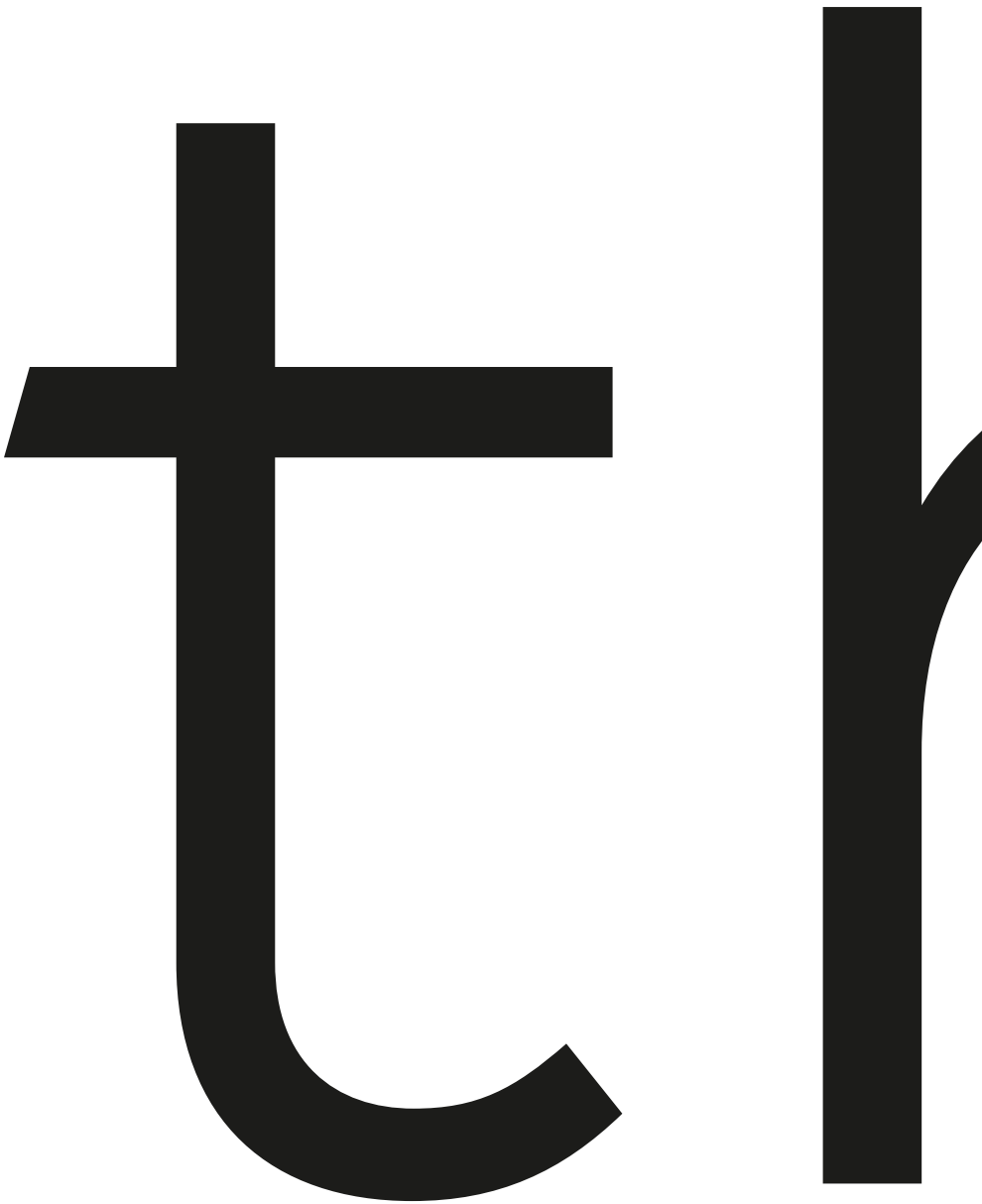


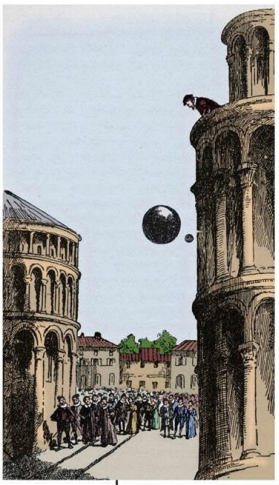


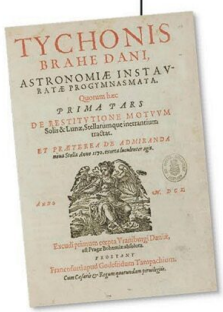


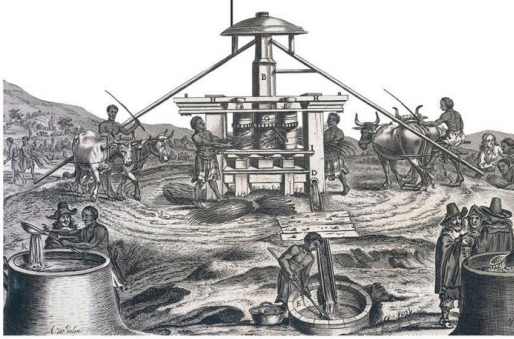









TYCHONIS
BRAHE DANI,
ASTRONOMIÆ INSTAV-
RATÆ PROGYMNASMATA.
Quorum hic
PRIMA PARS
DE RESTITVTIONE MOTVVM
Solis & Lunæ, Stellarumque inerrantium
tractat.
ET PRÆTEREA DE ADMIRANDA
nova Stella Anno 1572. exorta hactenus agit.



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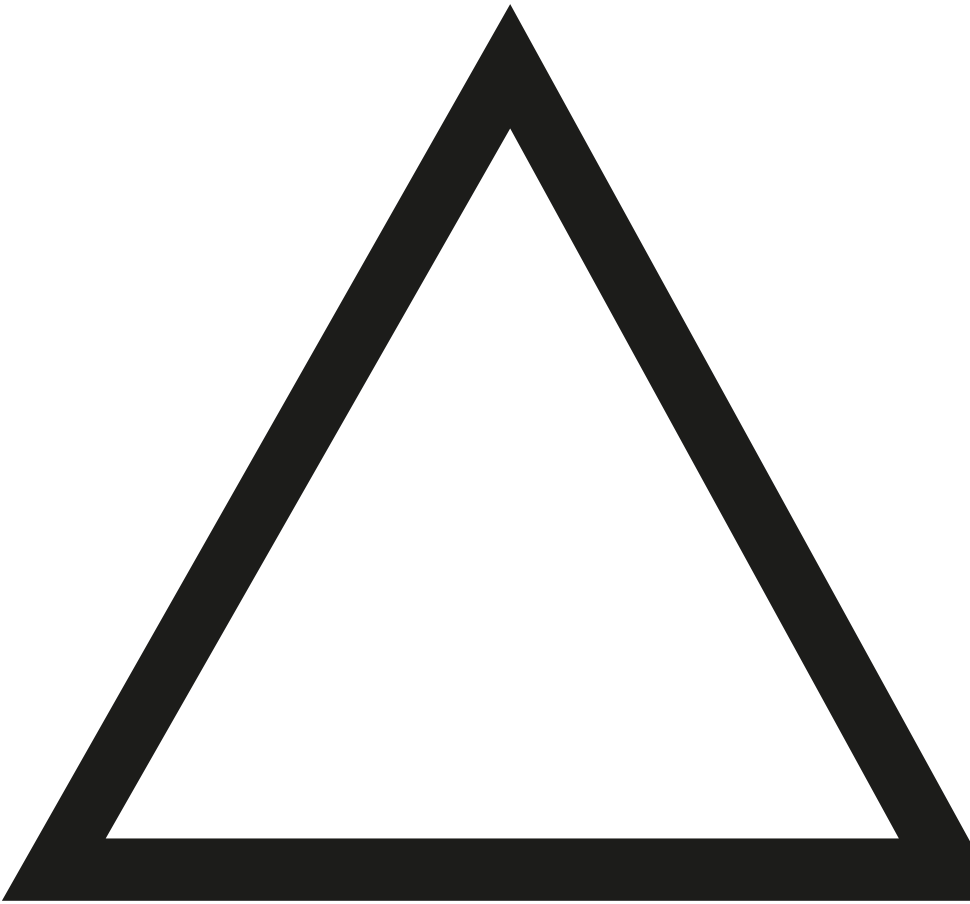

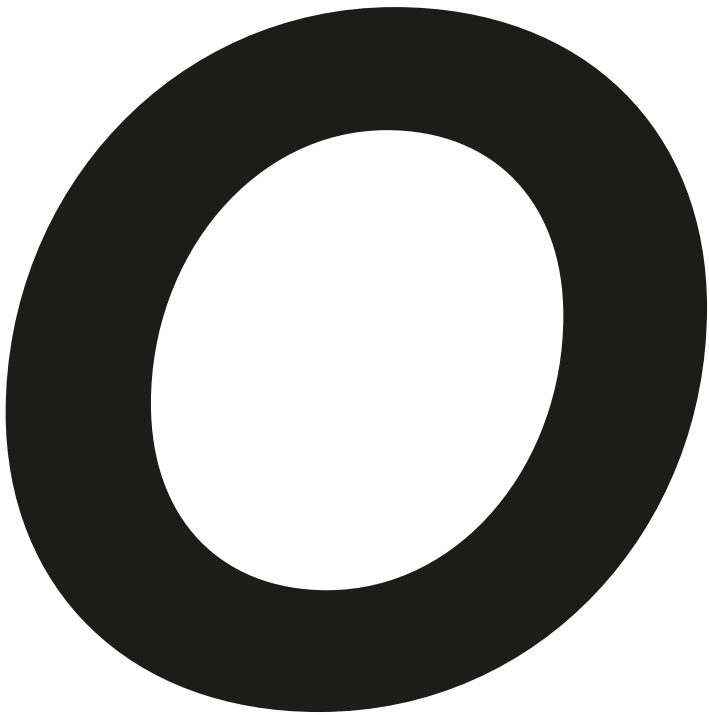

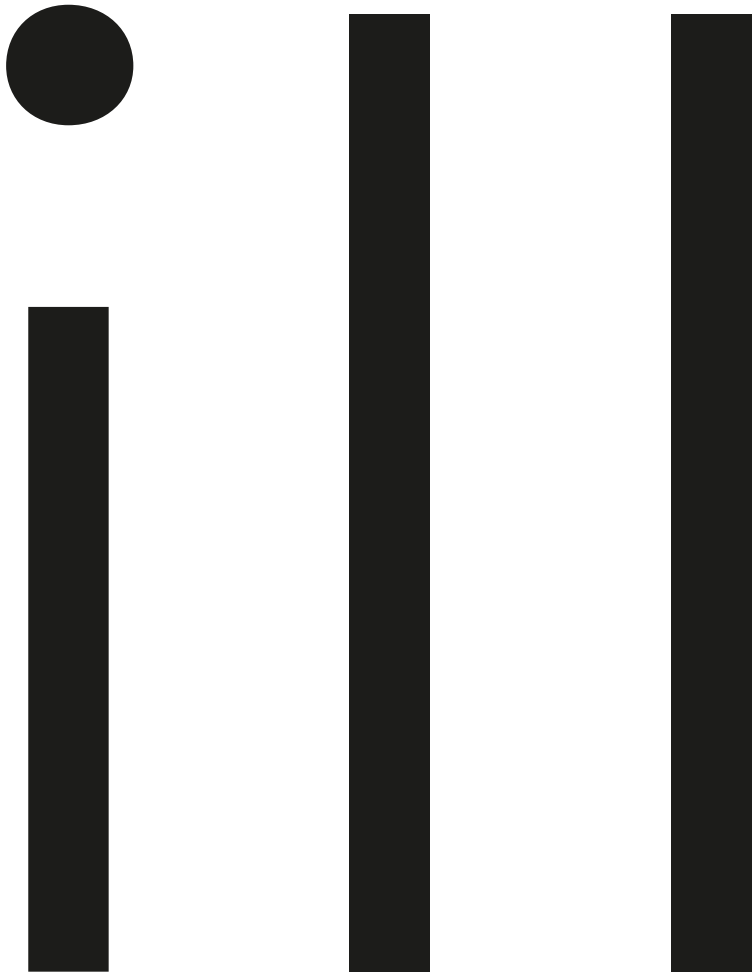

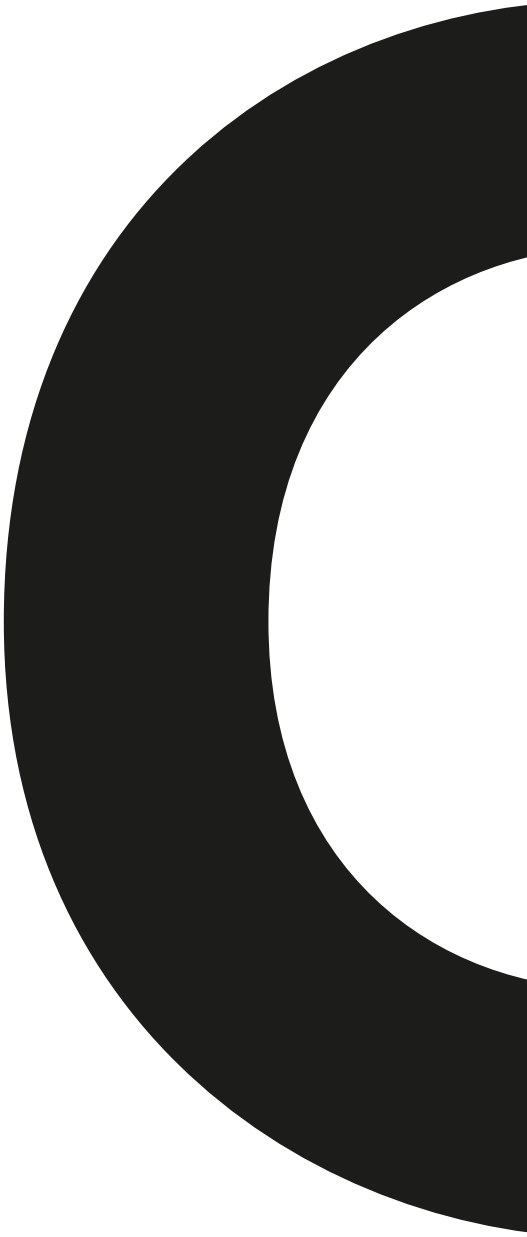

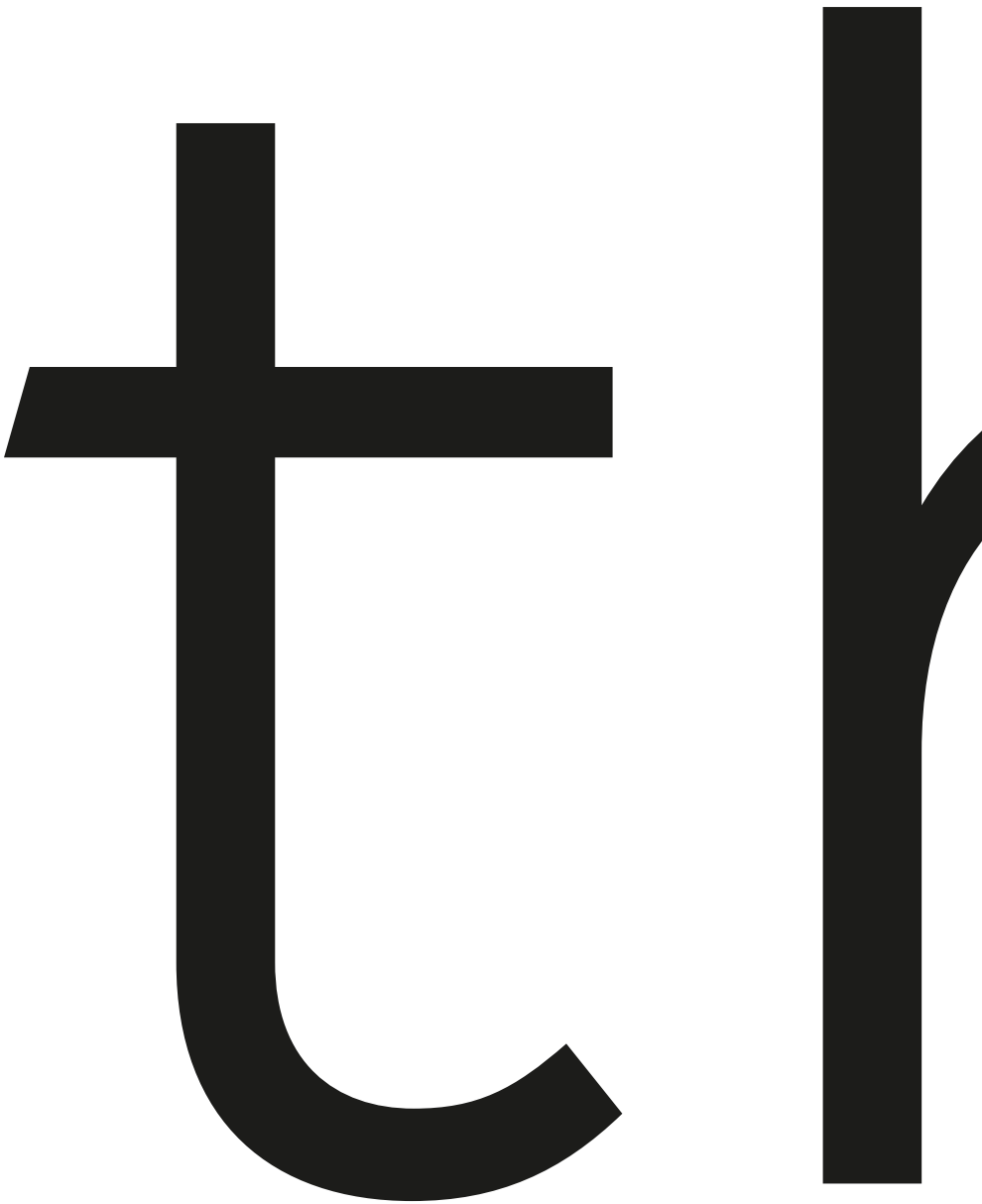

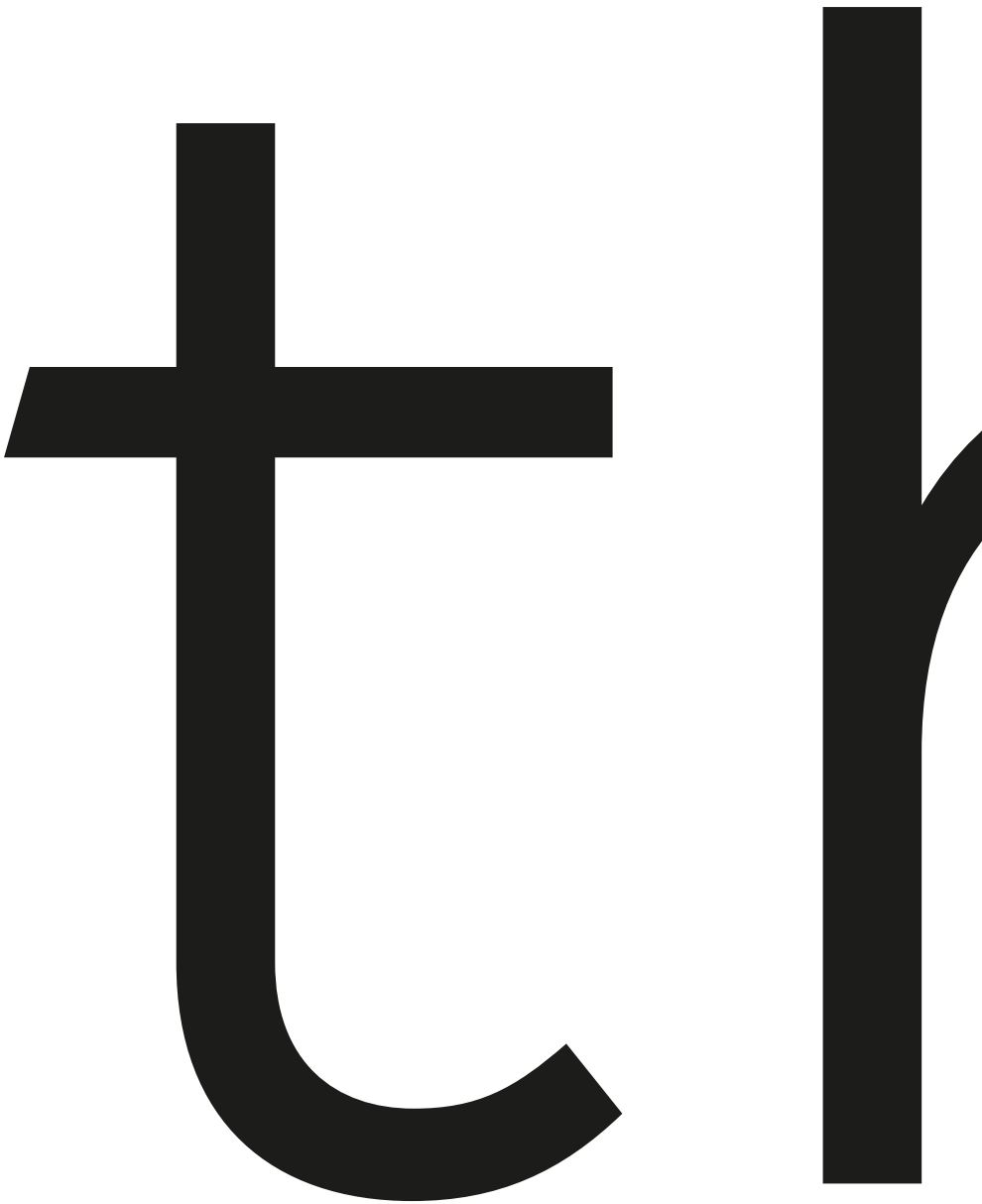

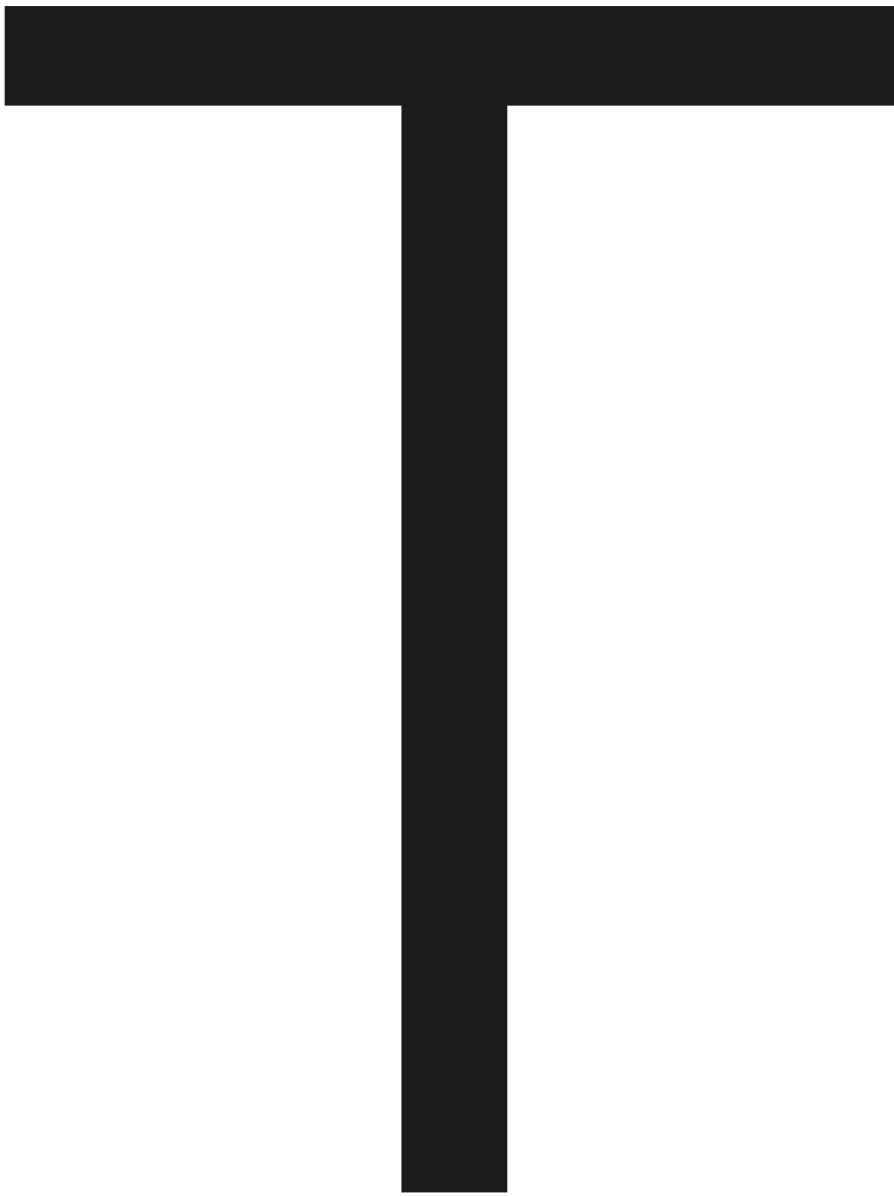

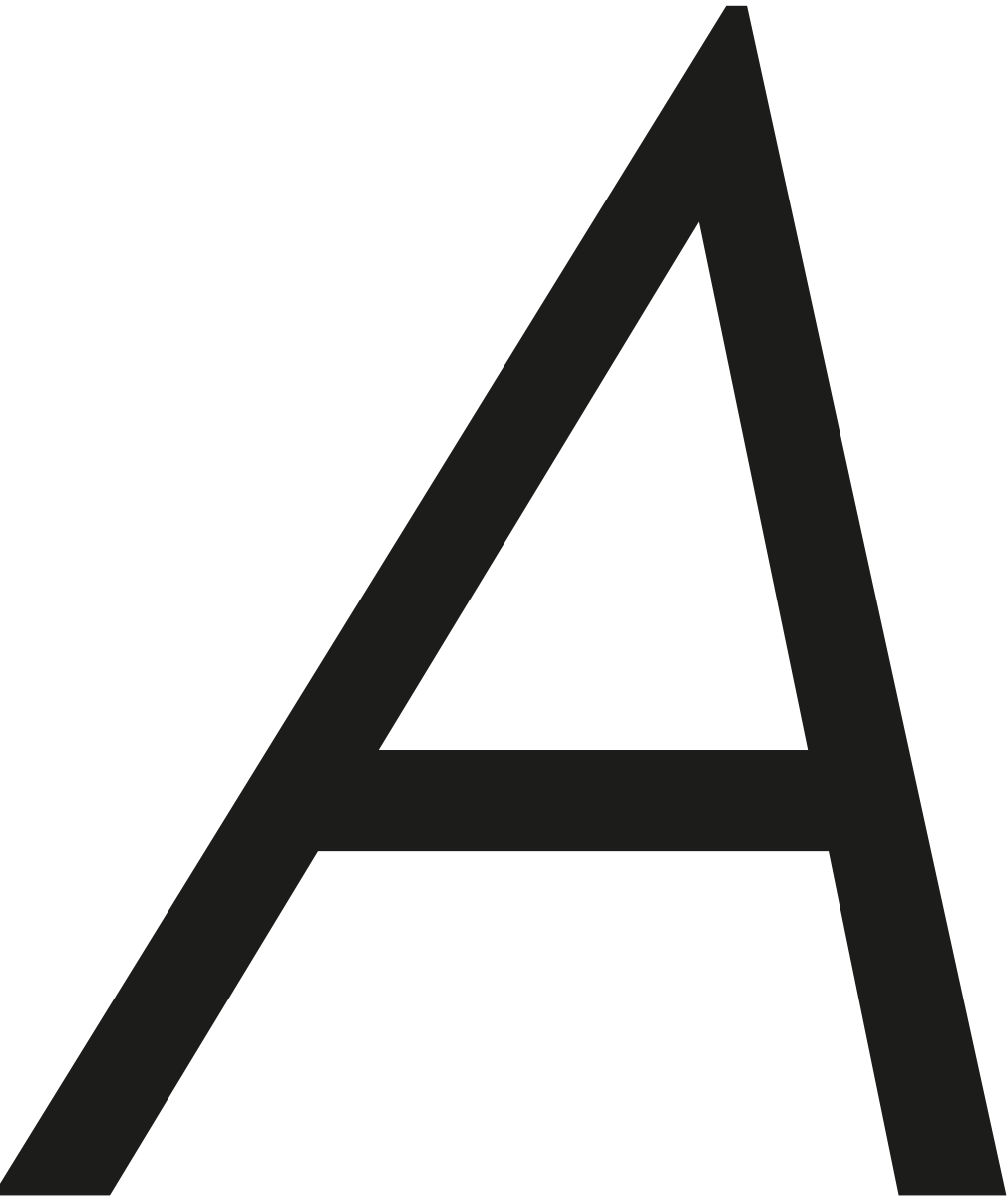

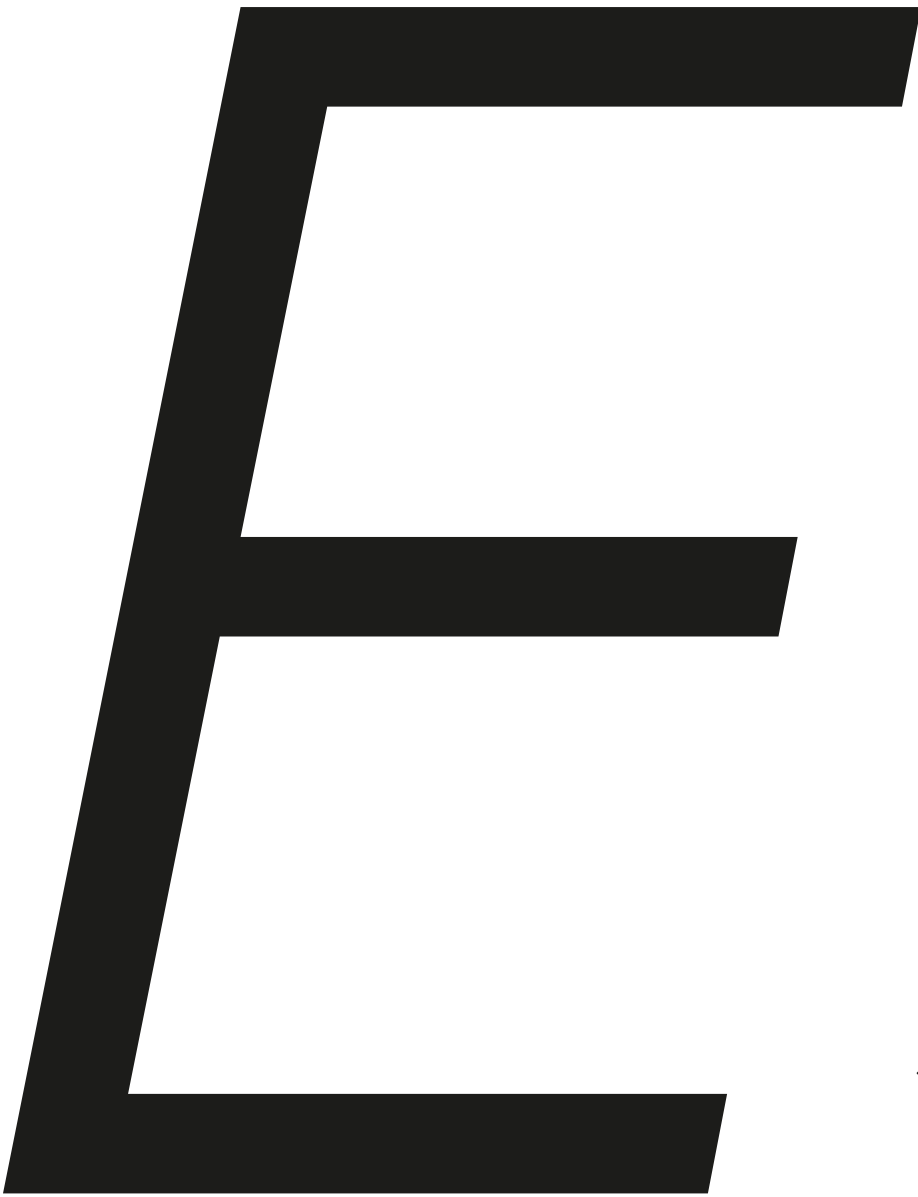

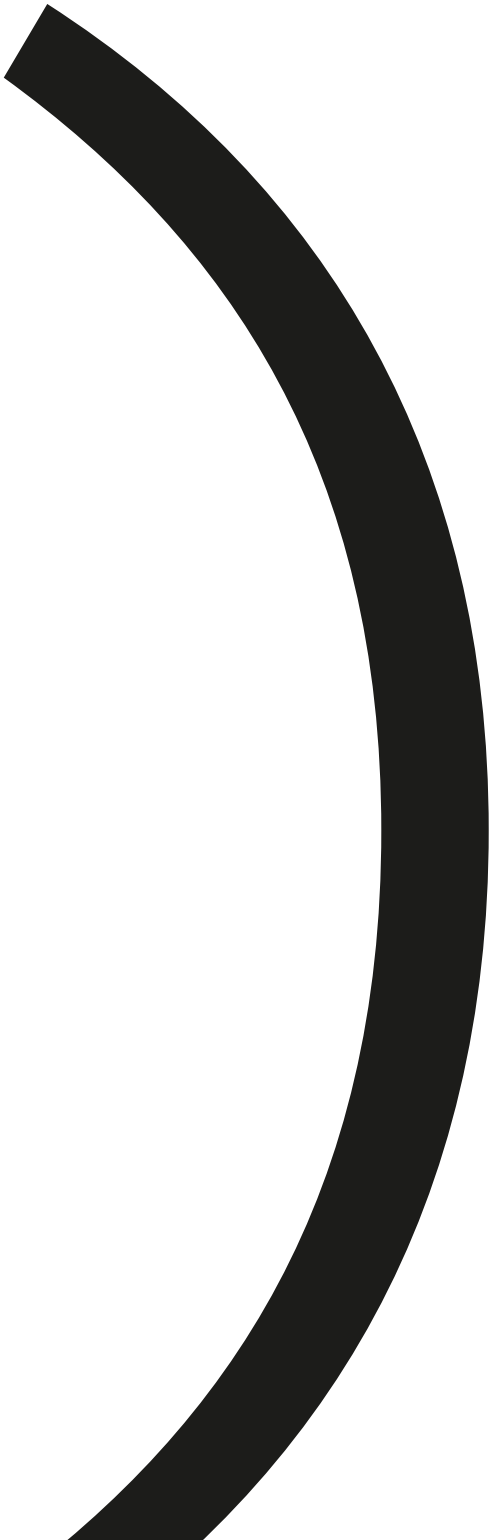

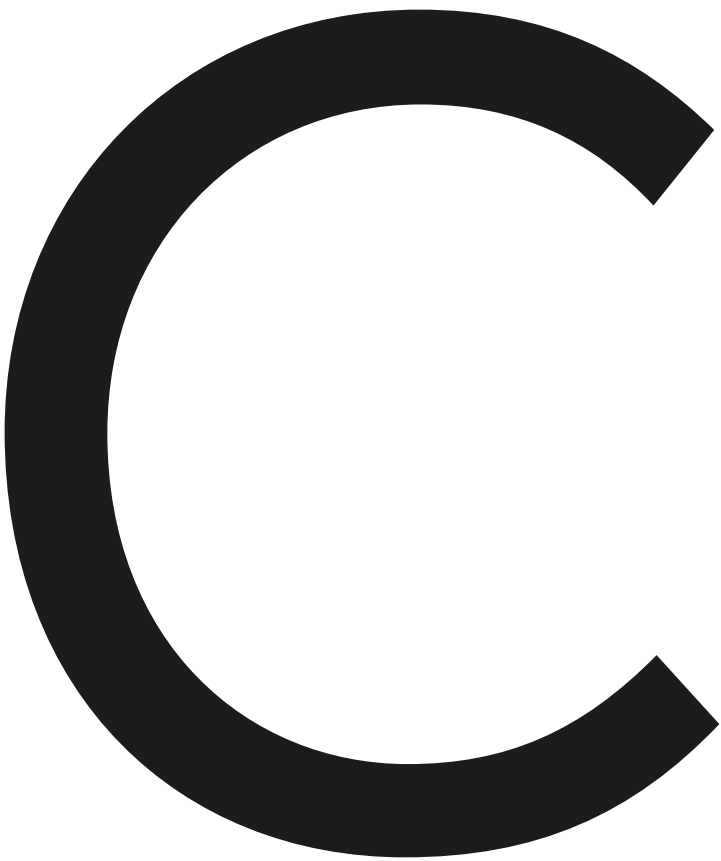

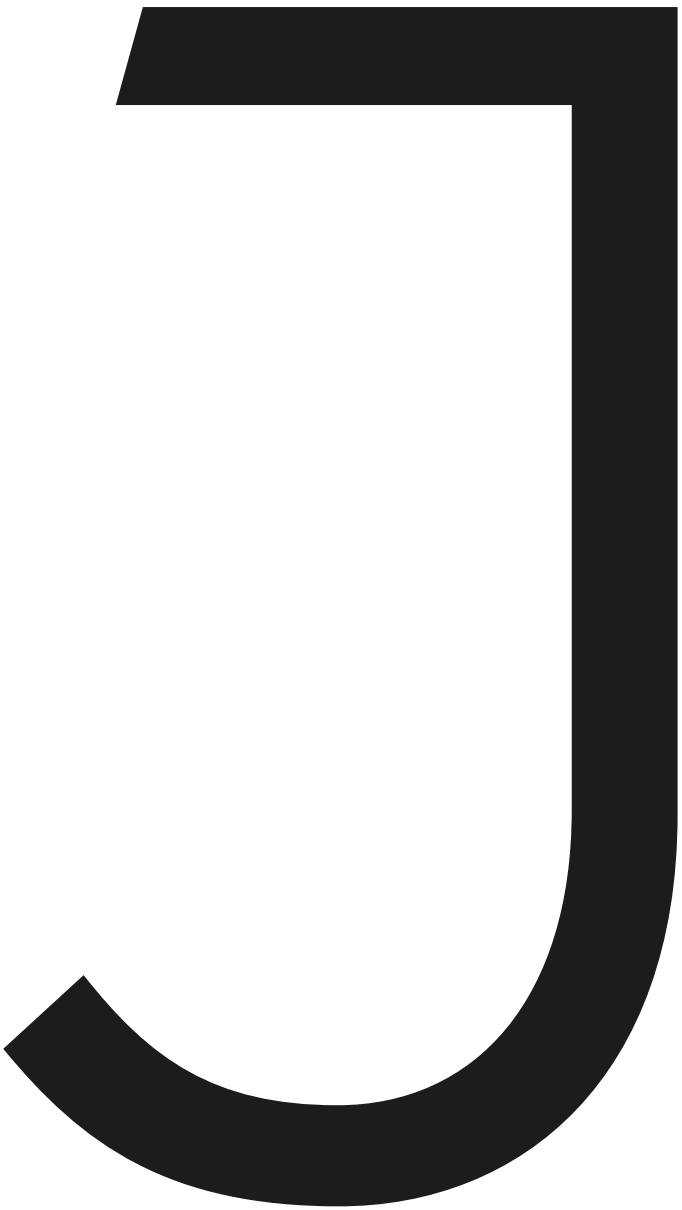

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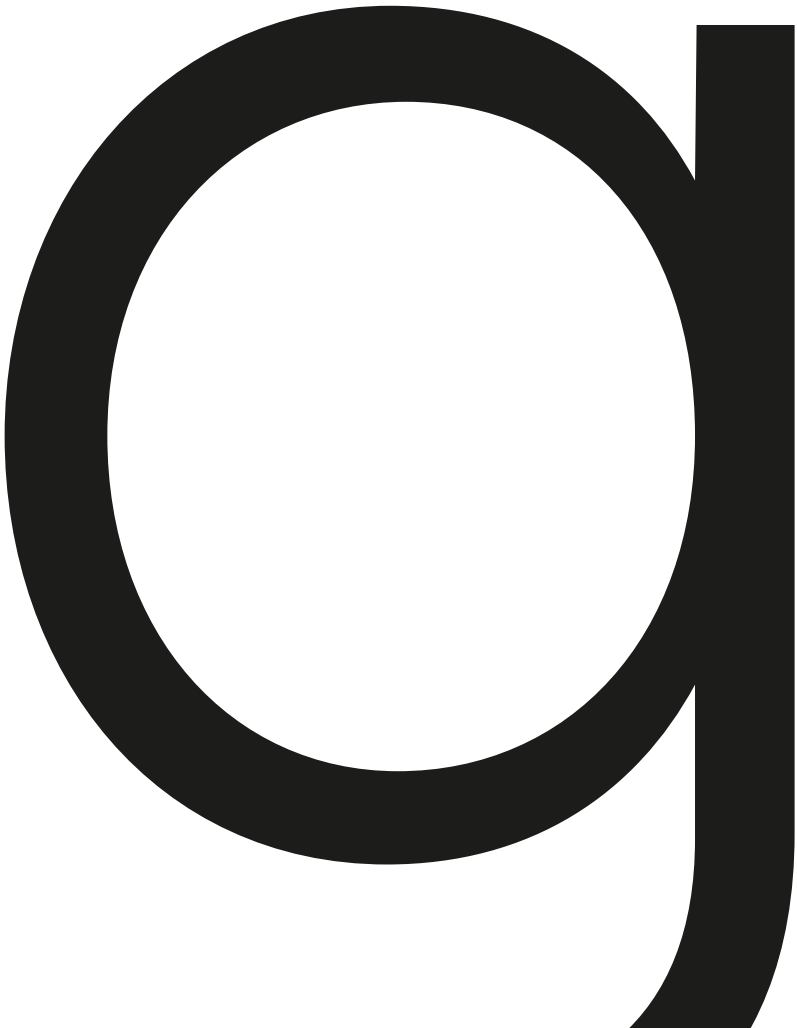

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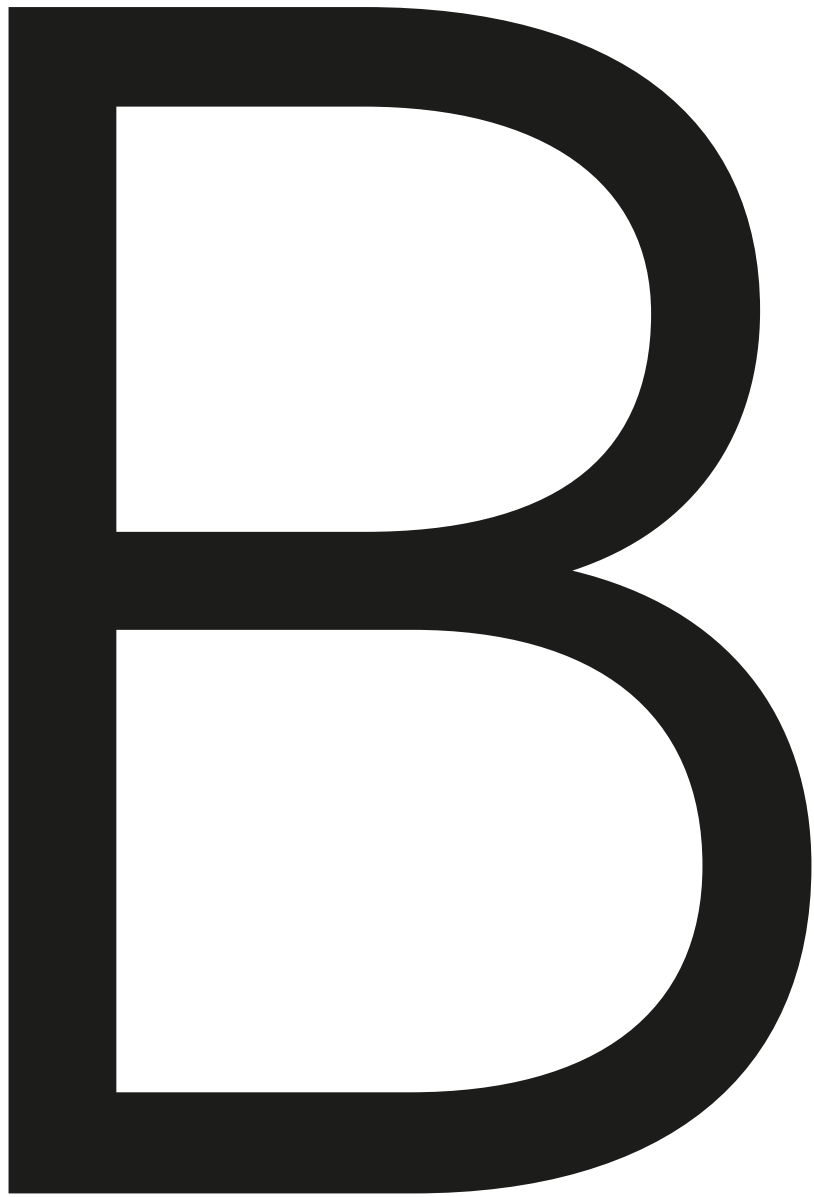

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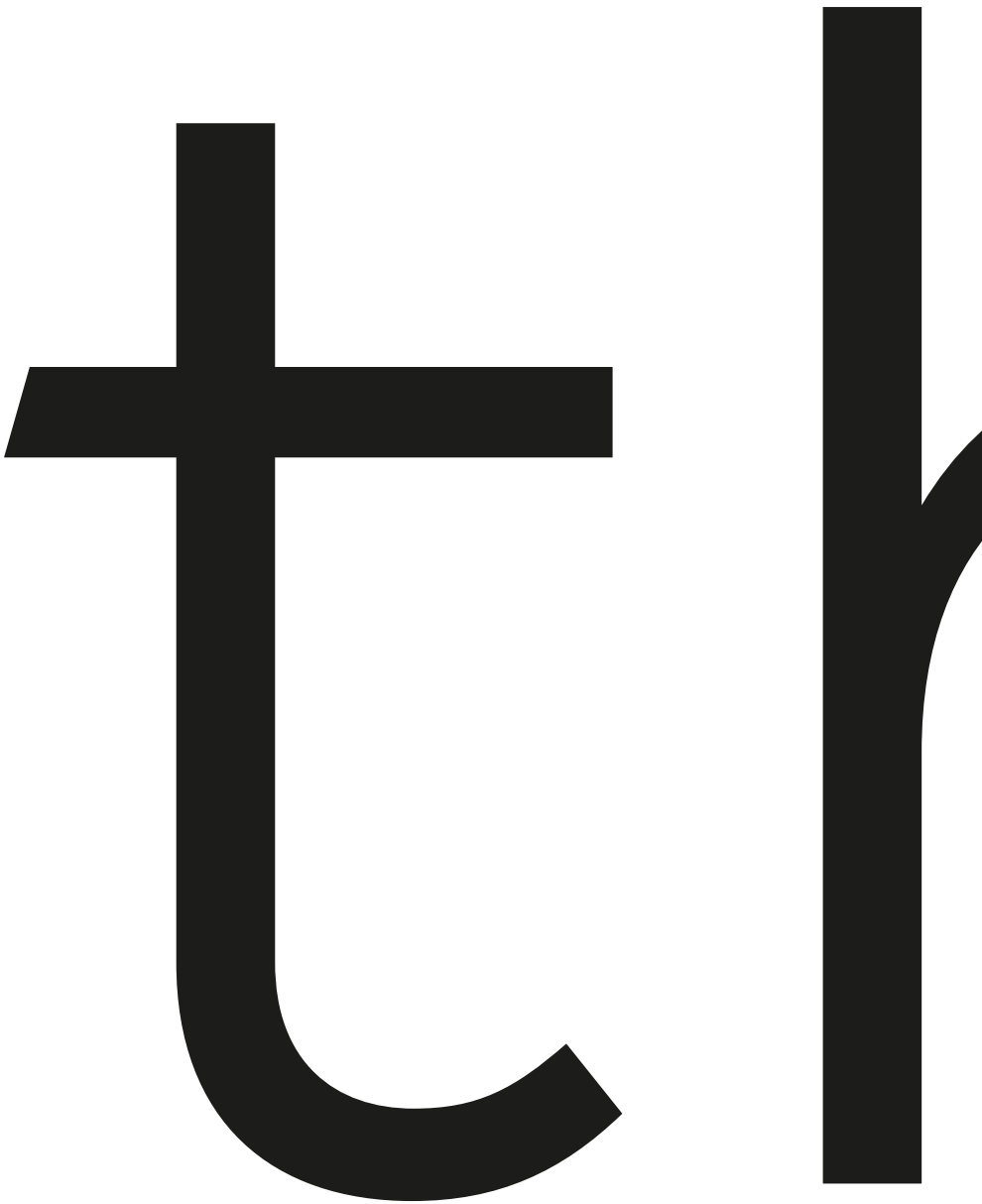

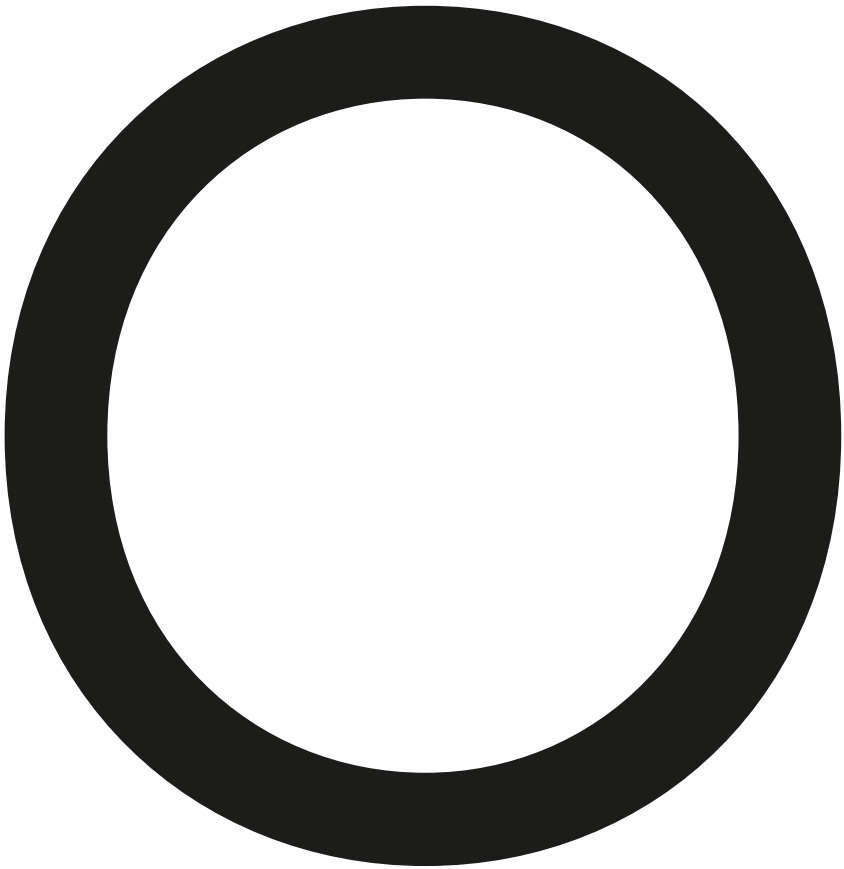

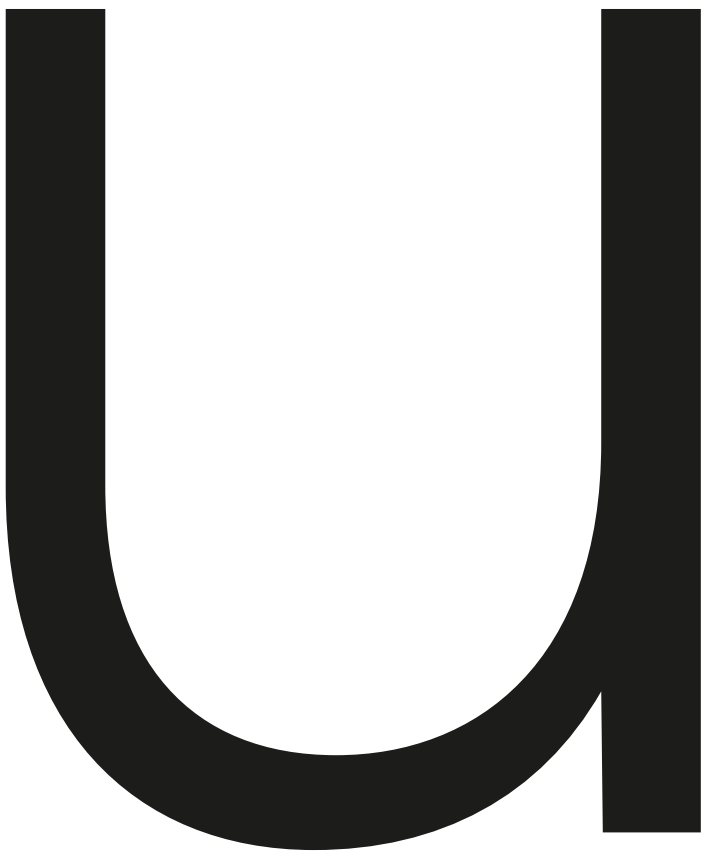

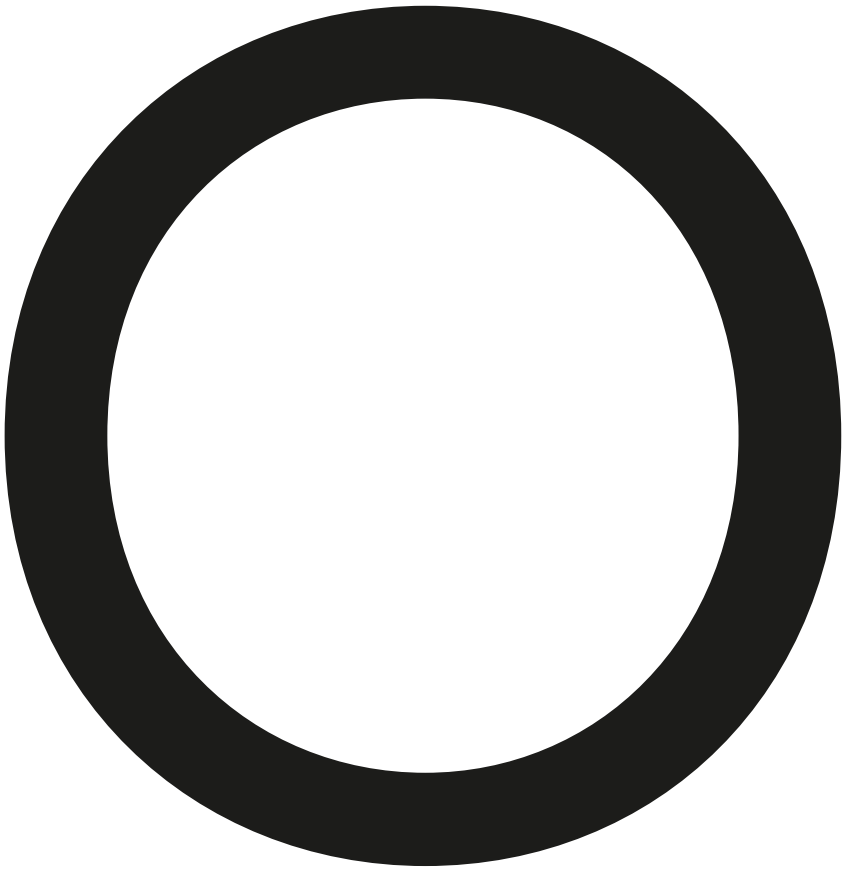

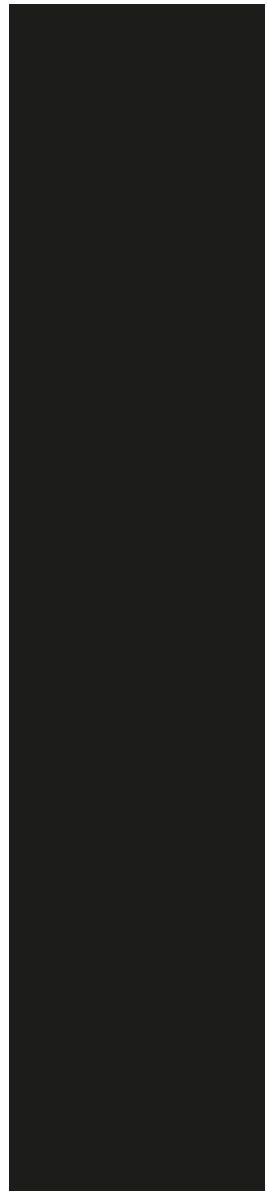

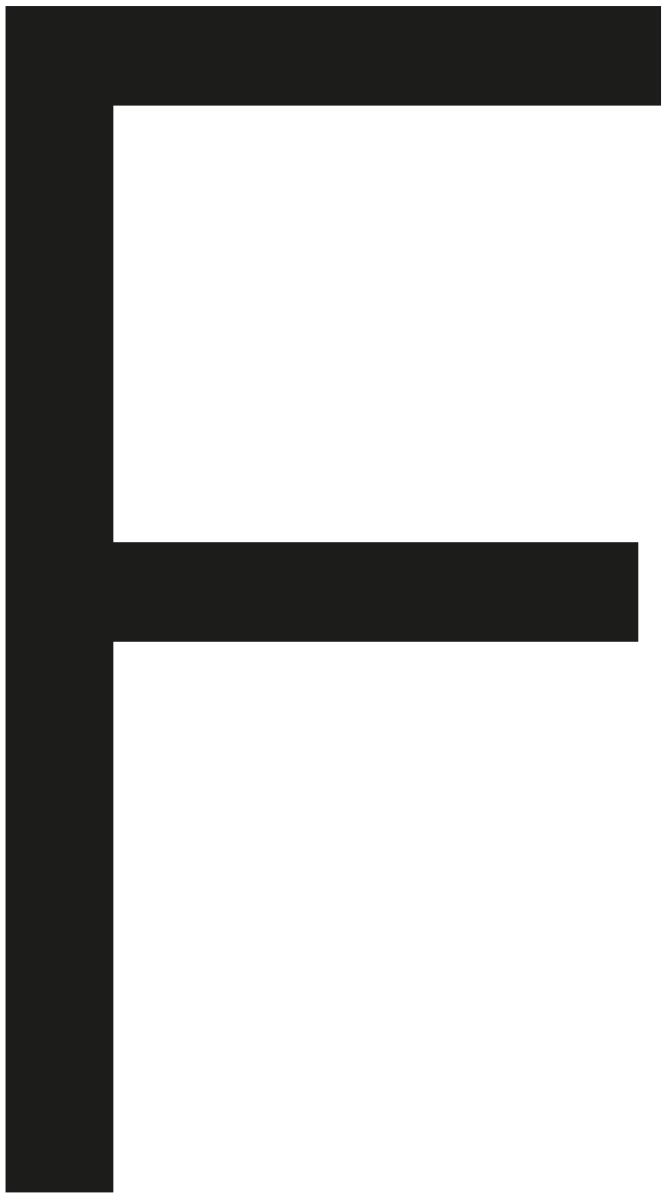

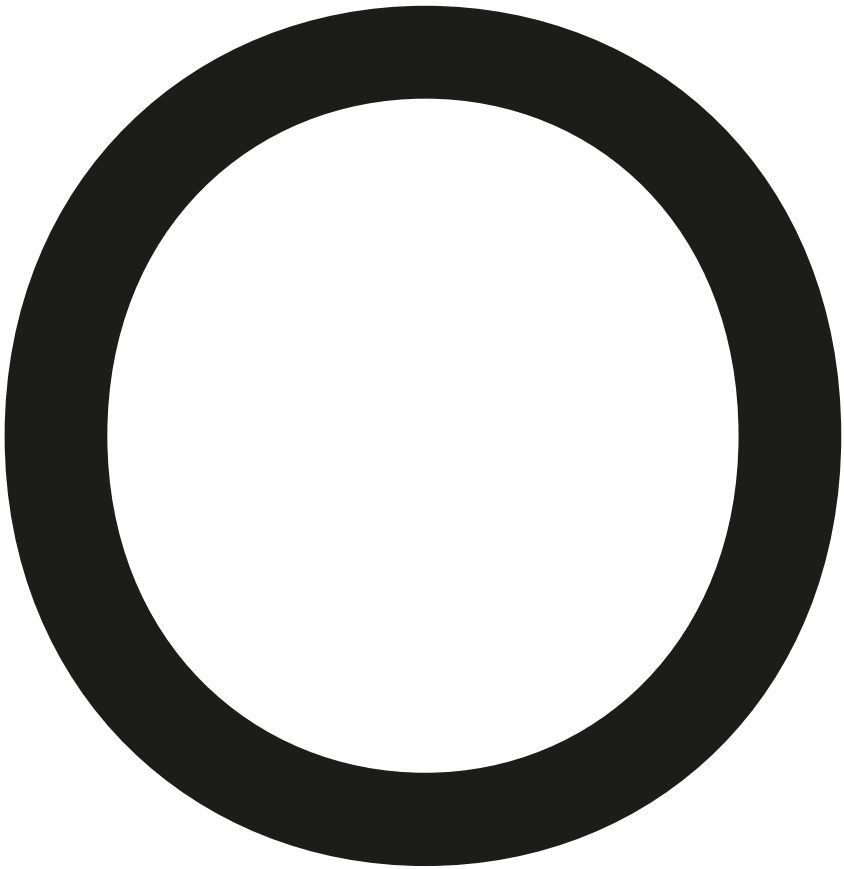

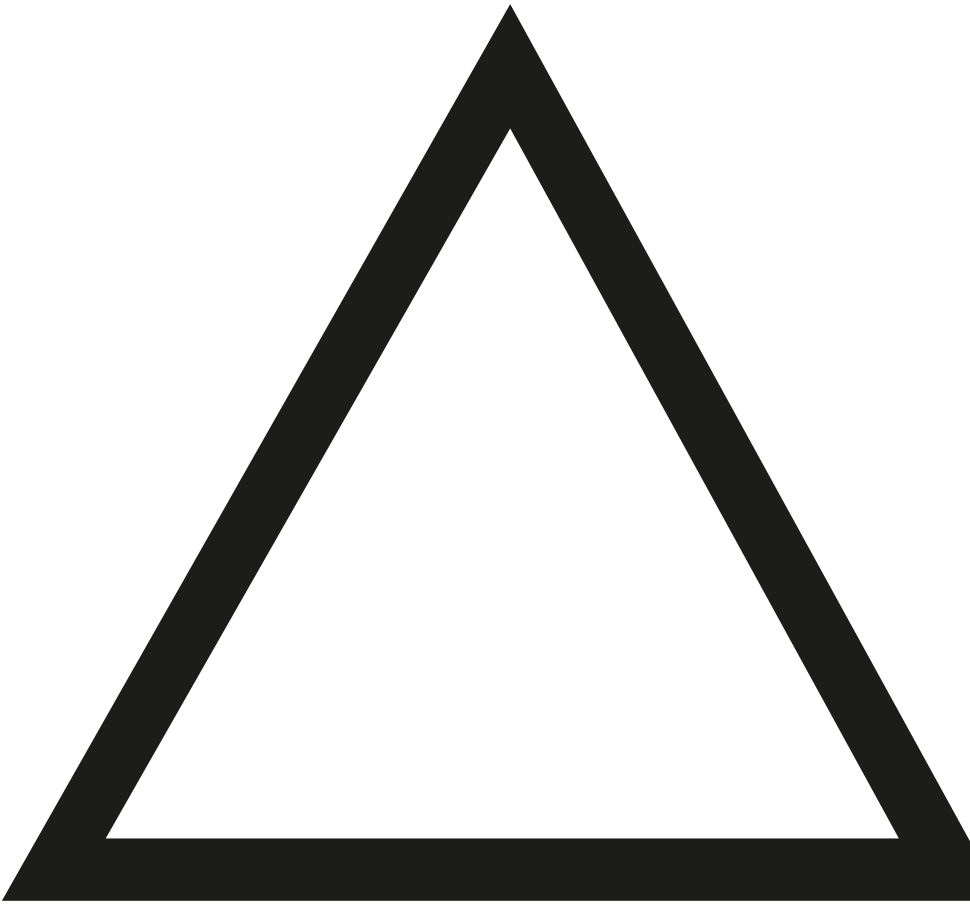

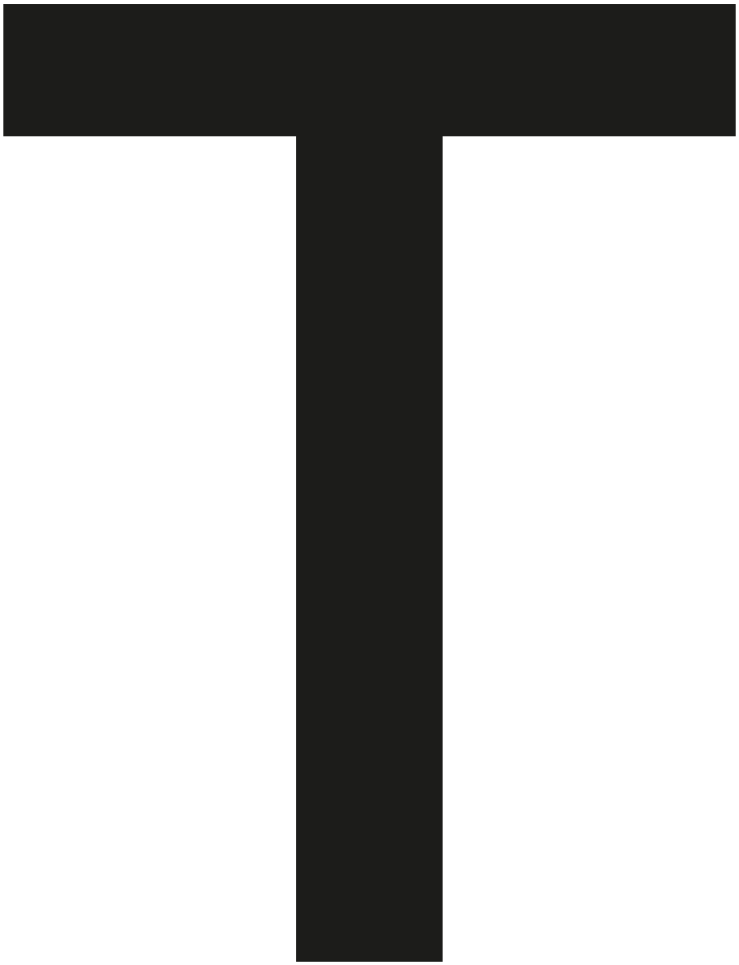

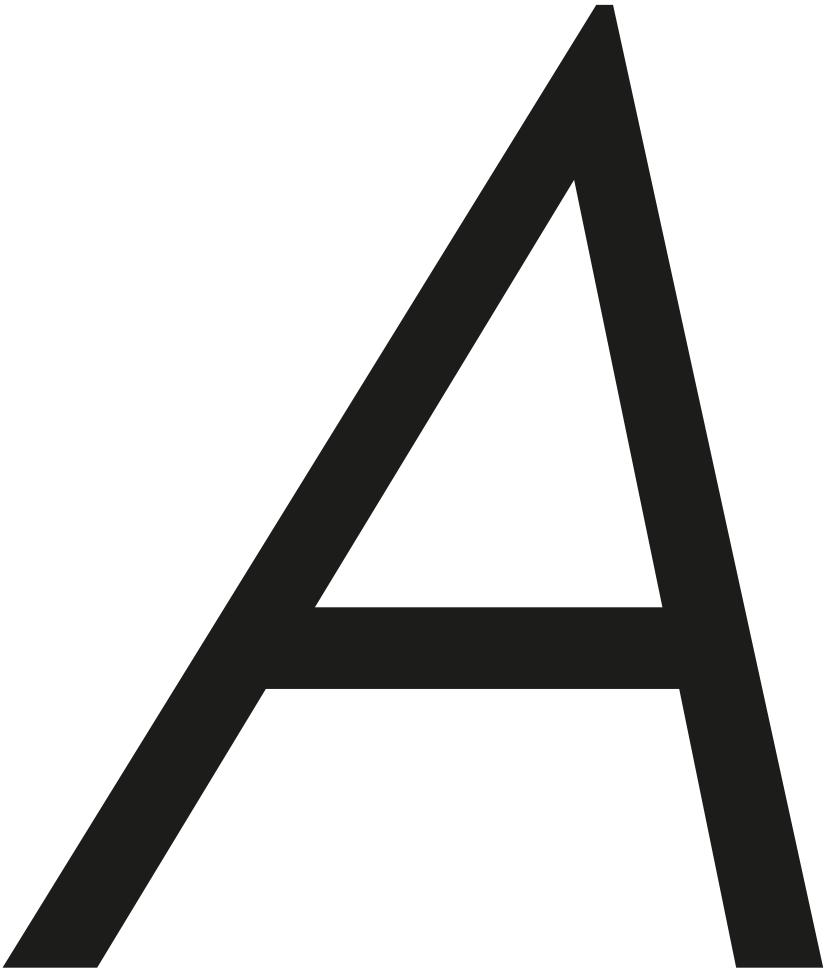

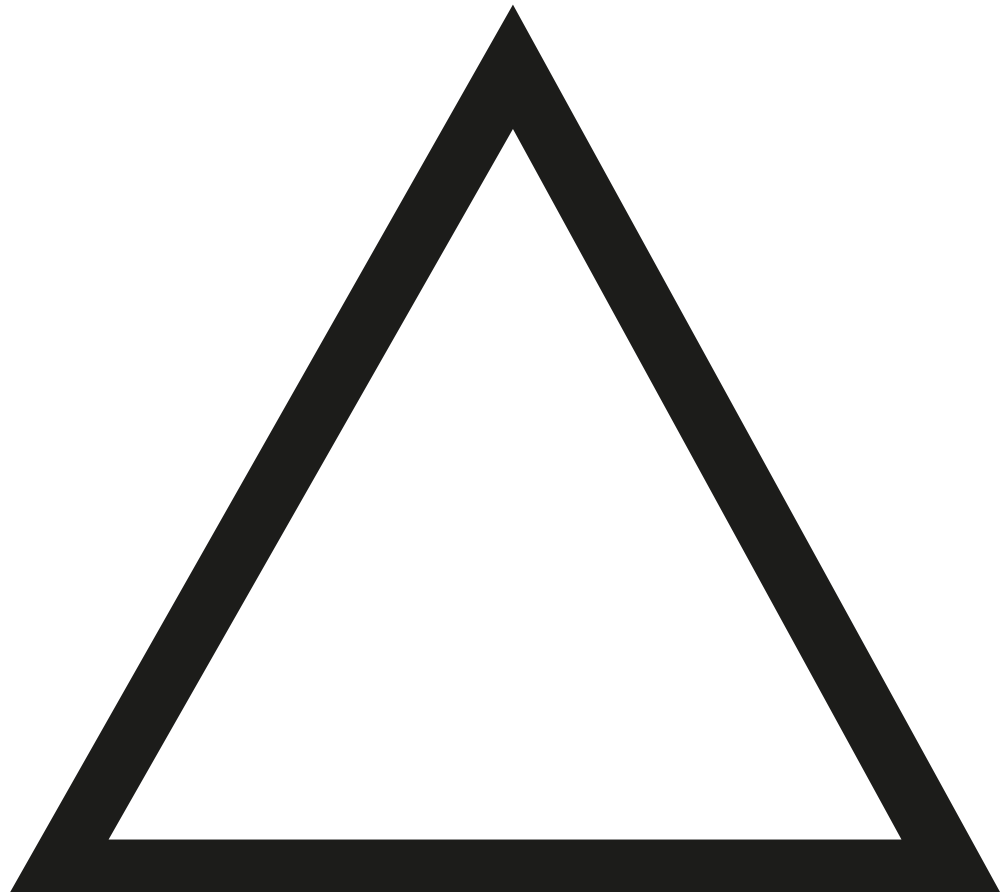

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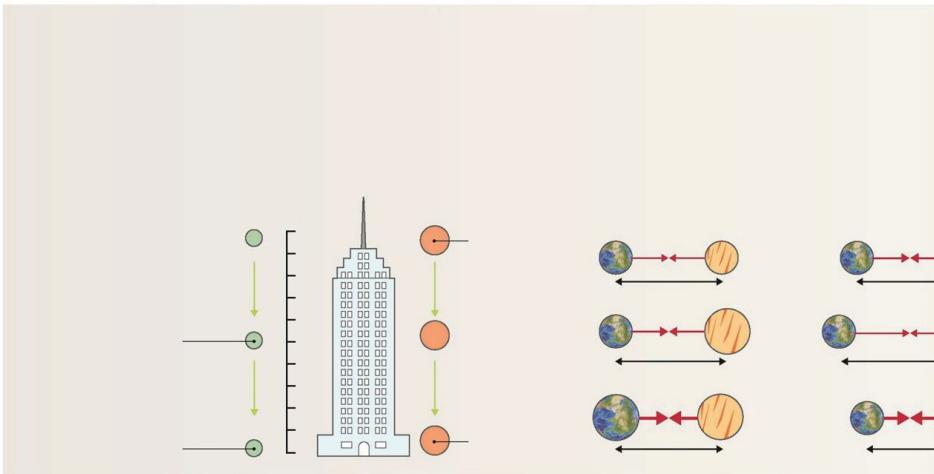

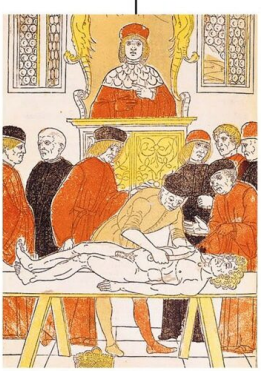

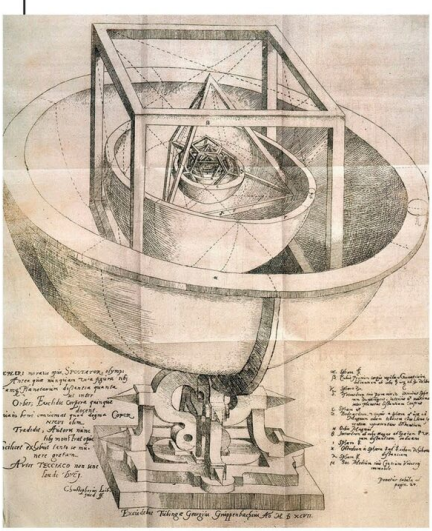

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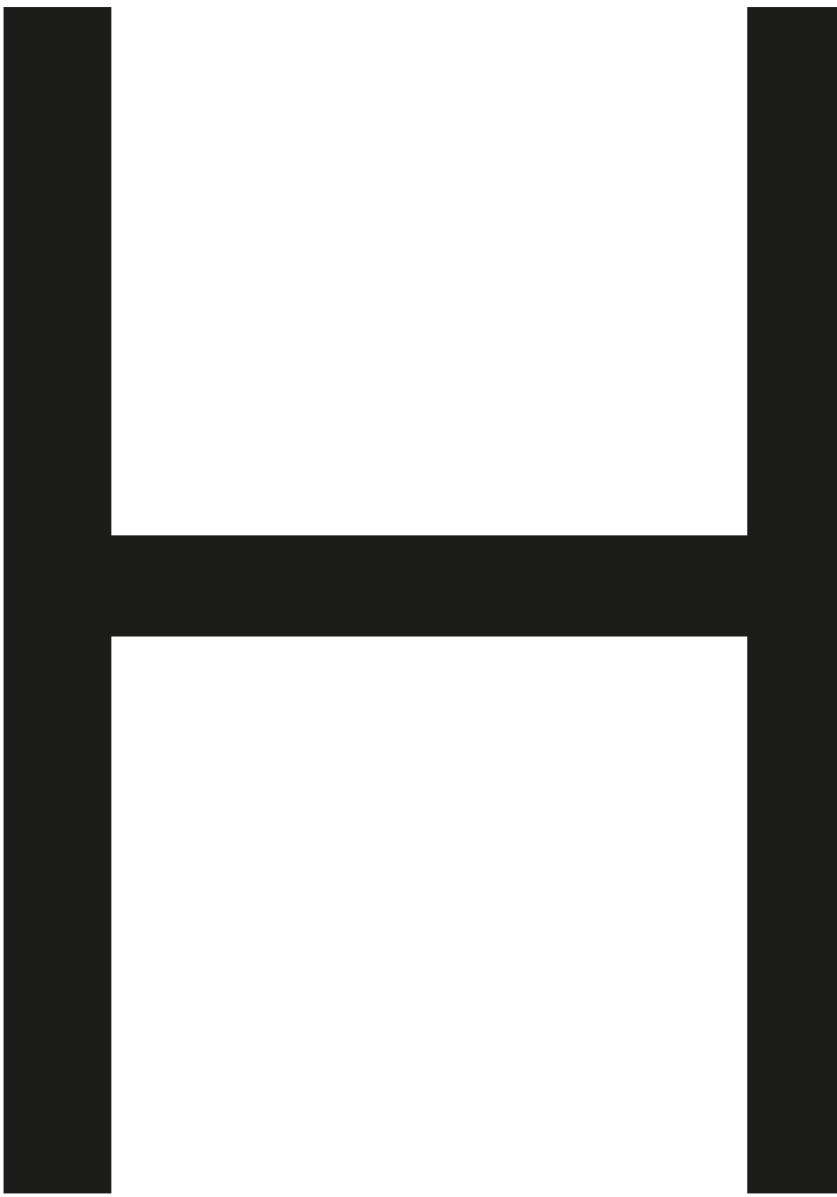

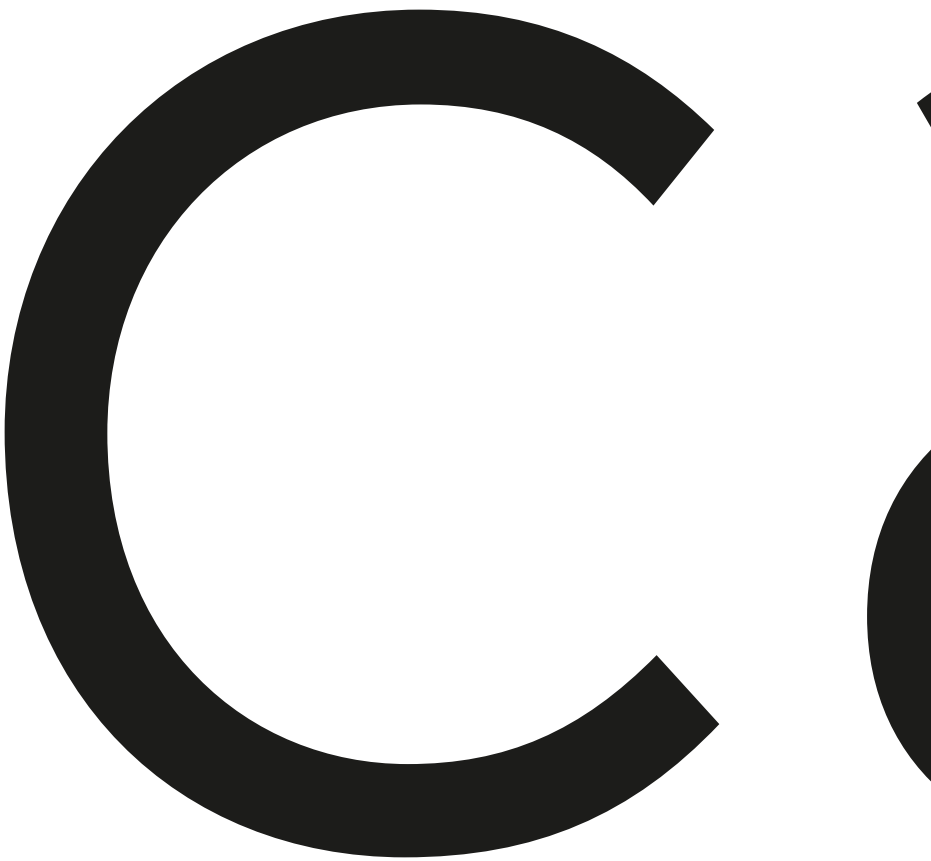

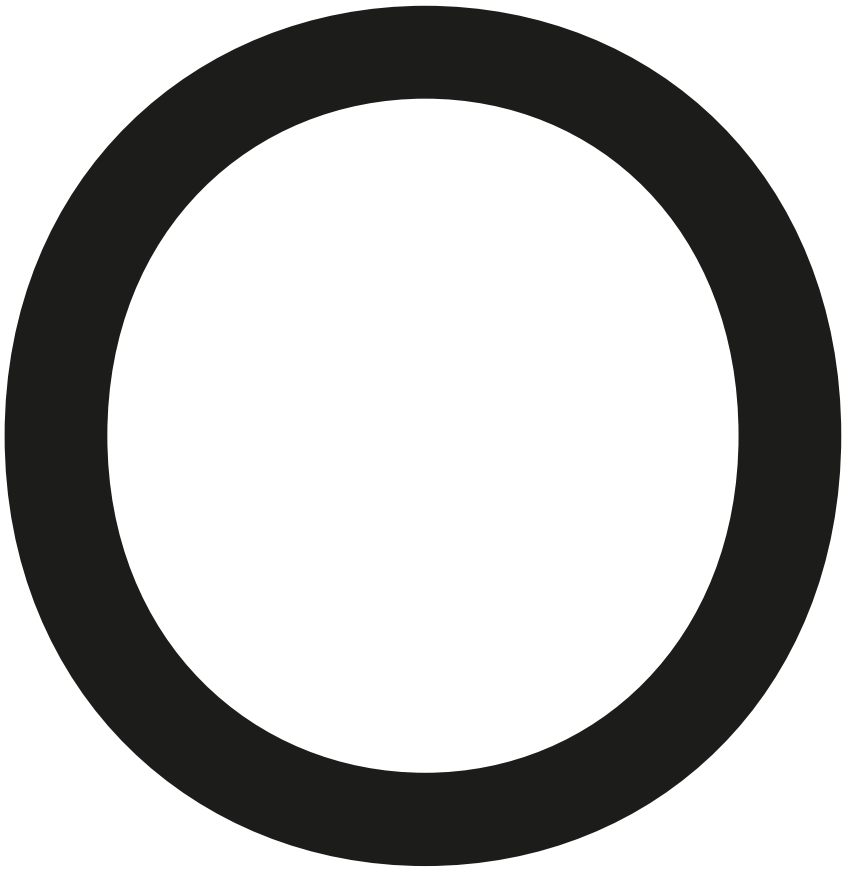

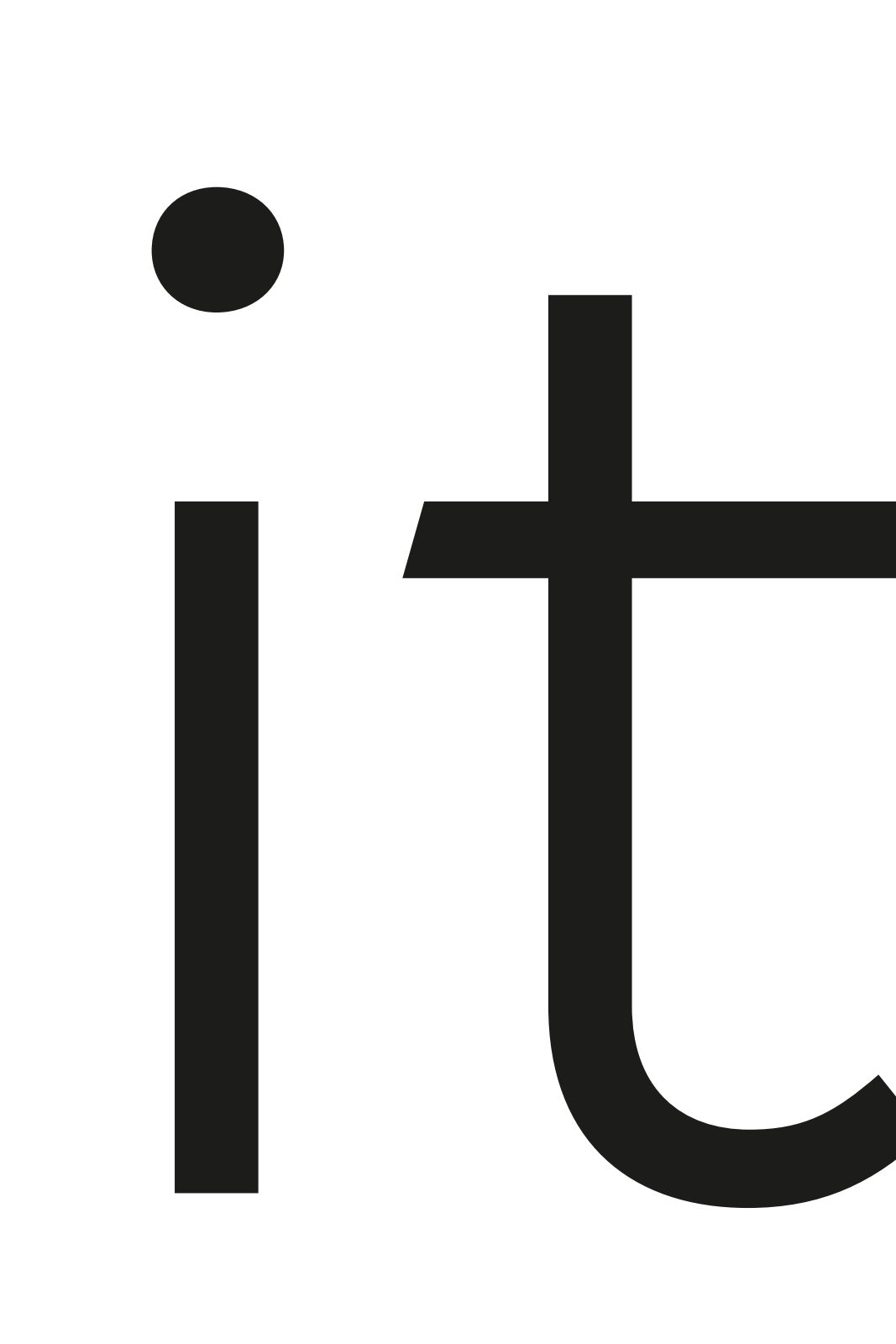
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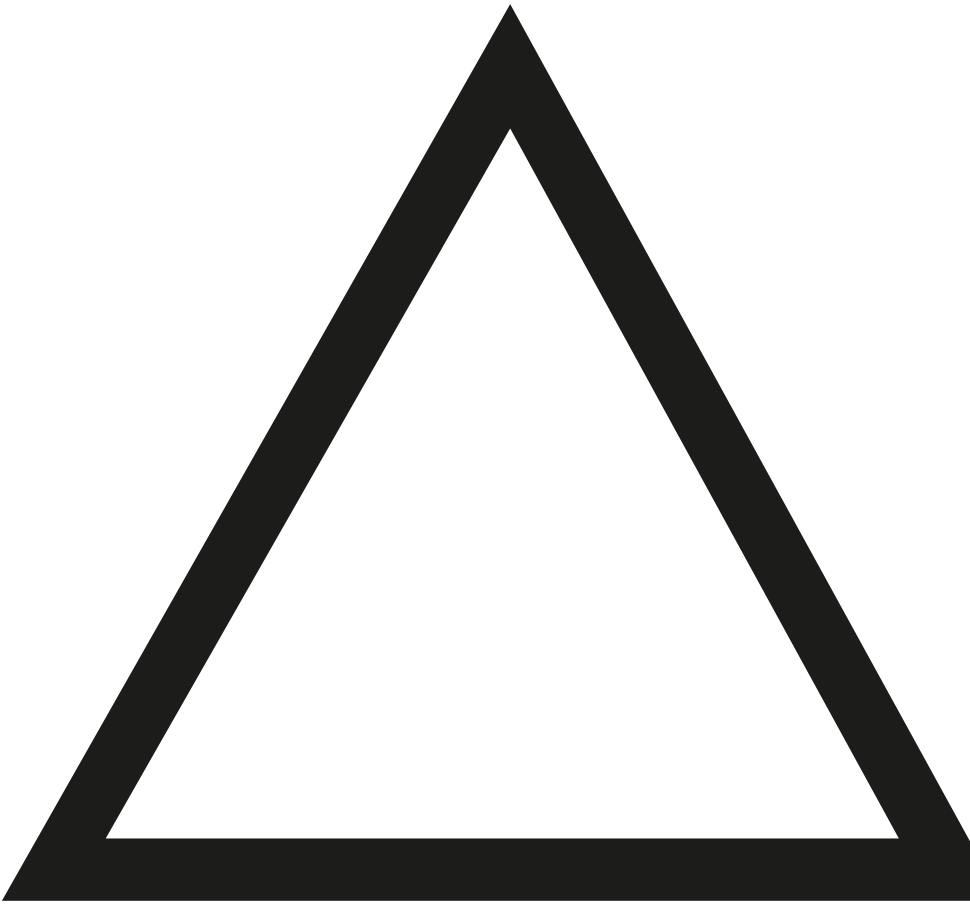

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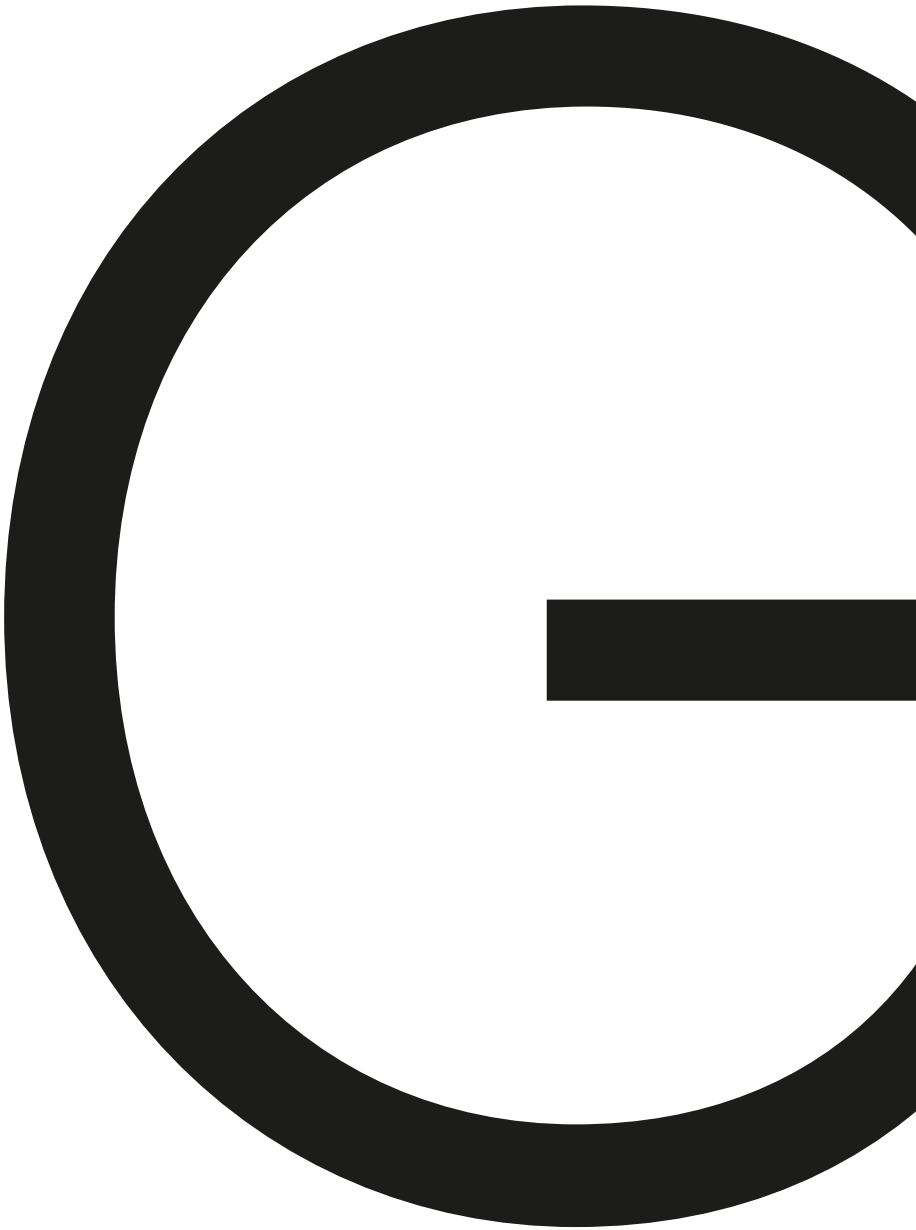

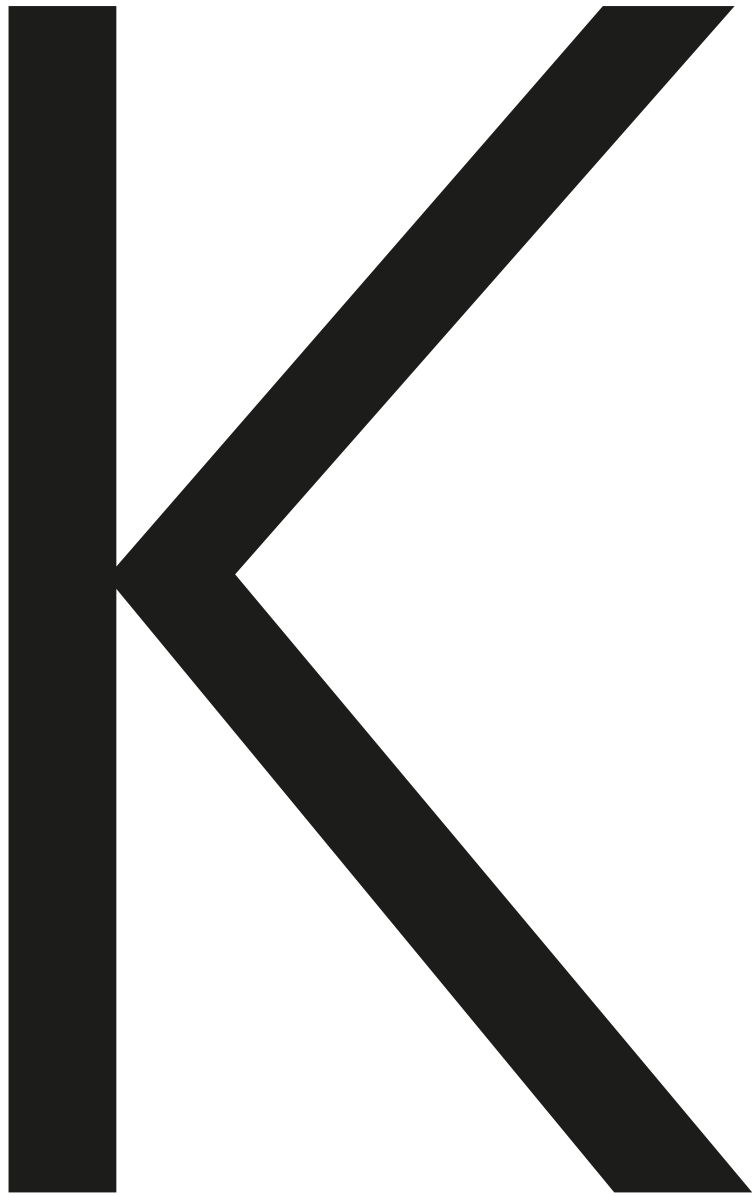

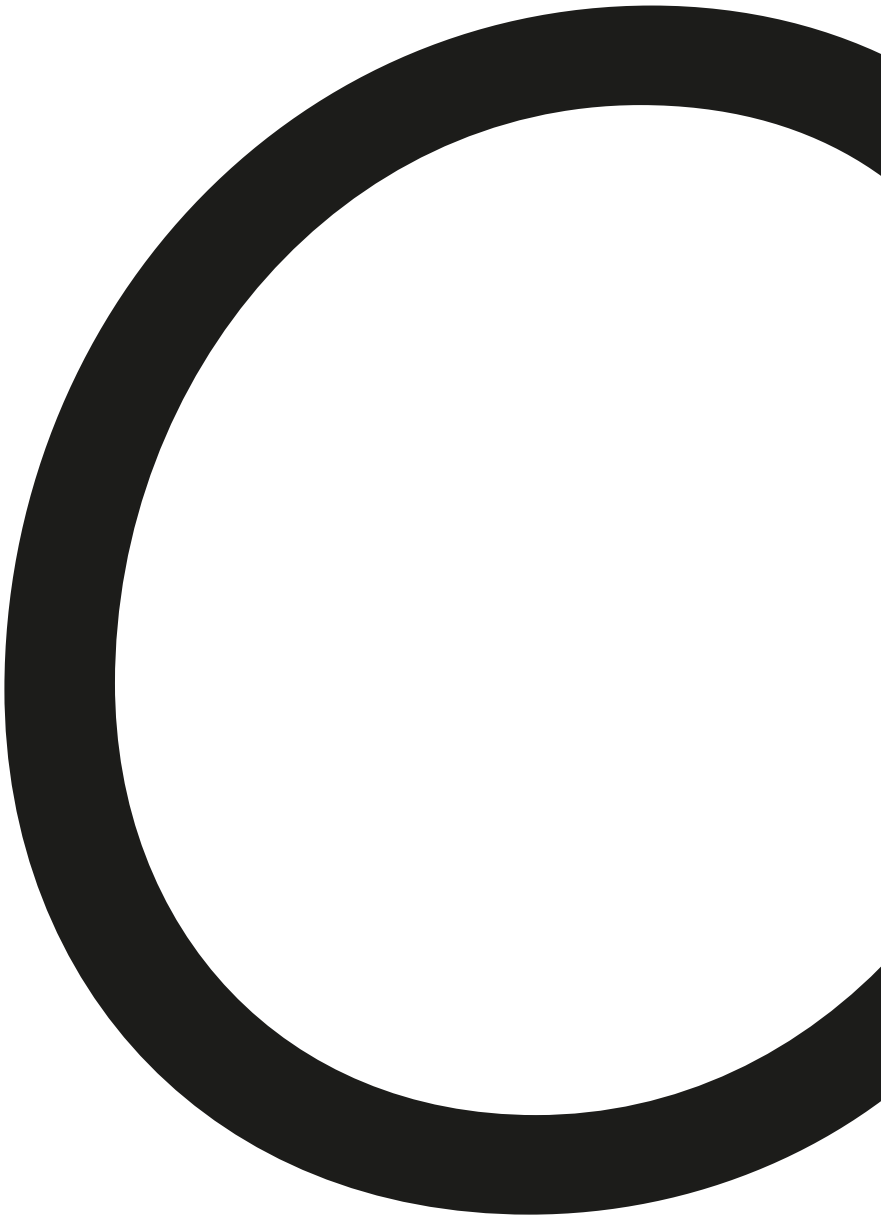

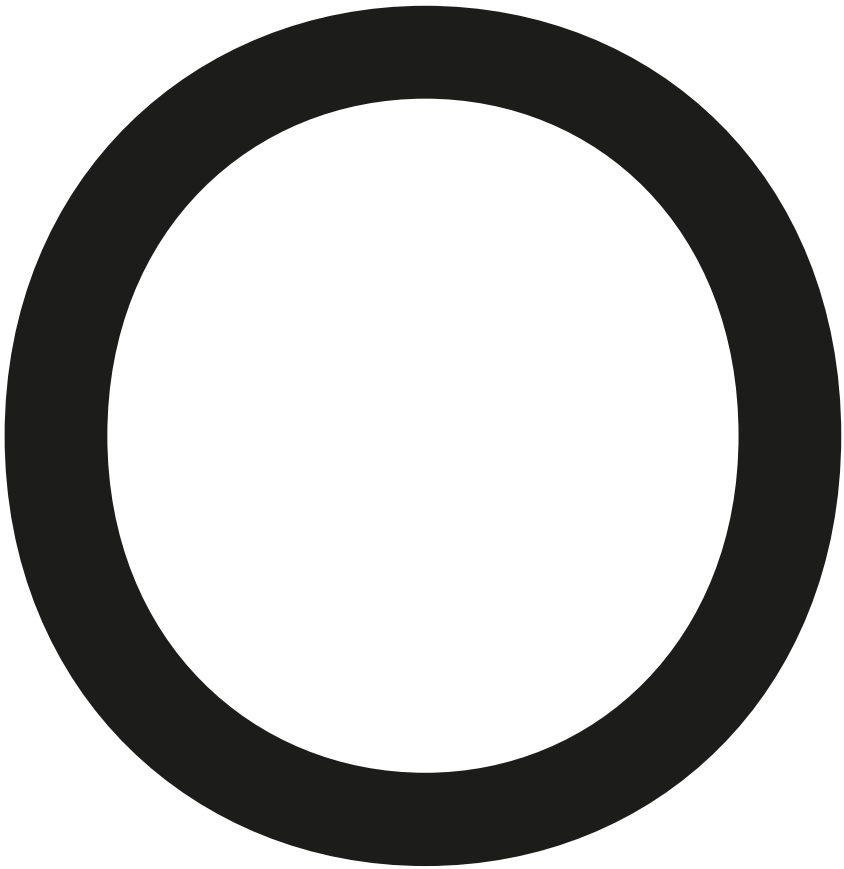

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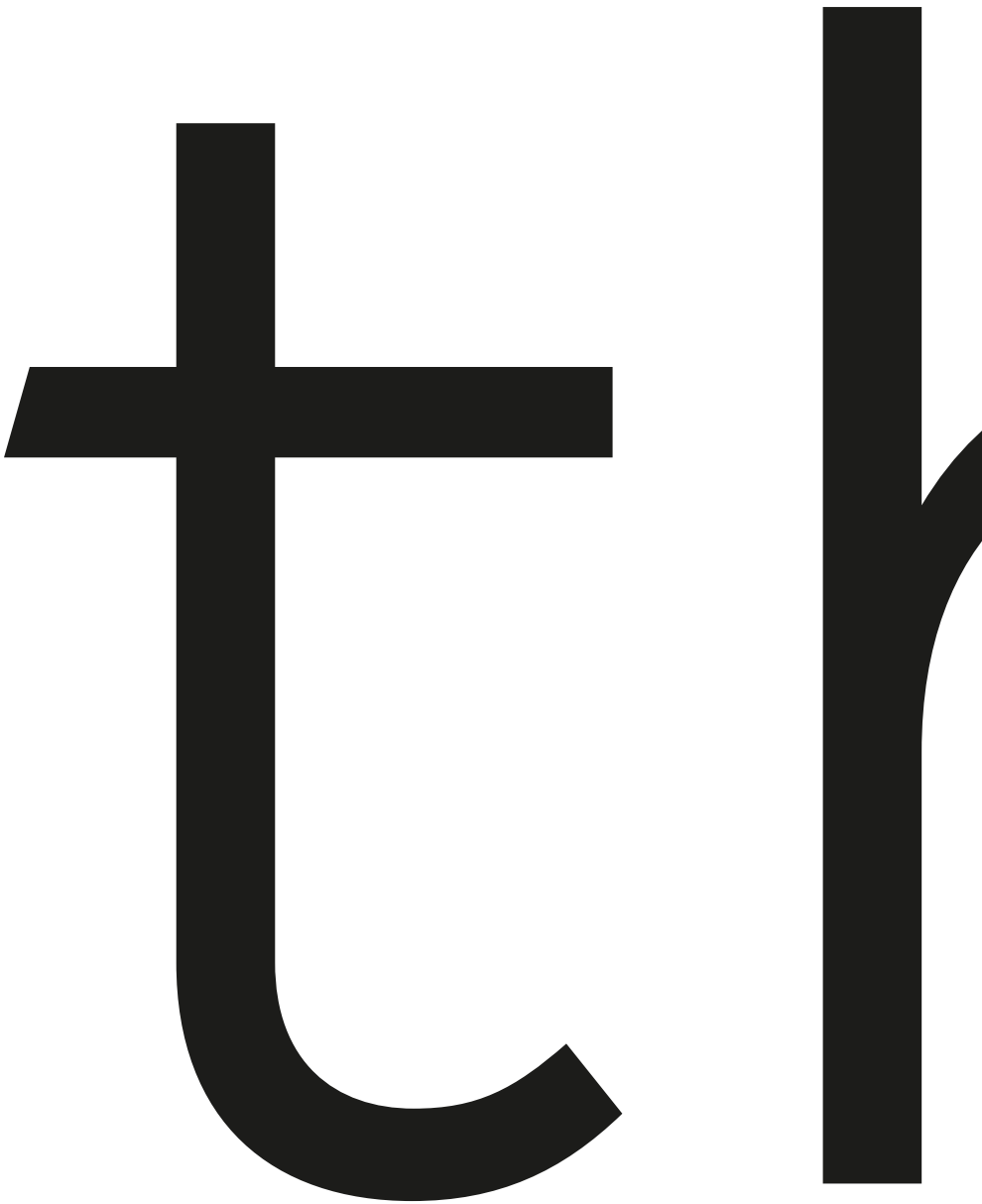

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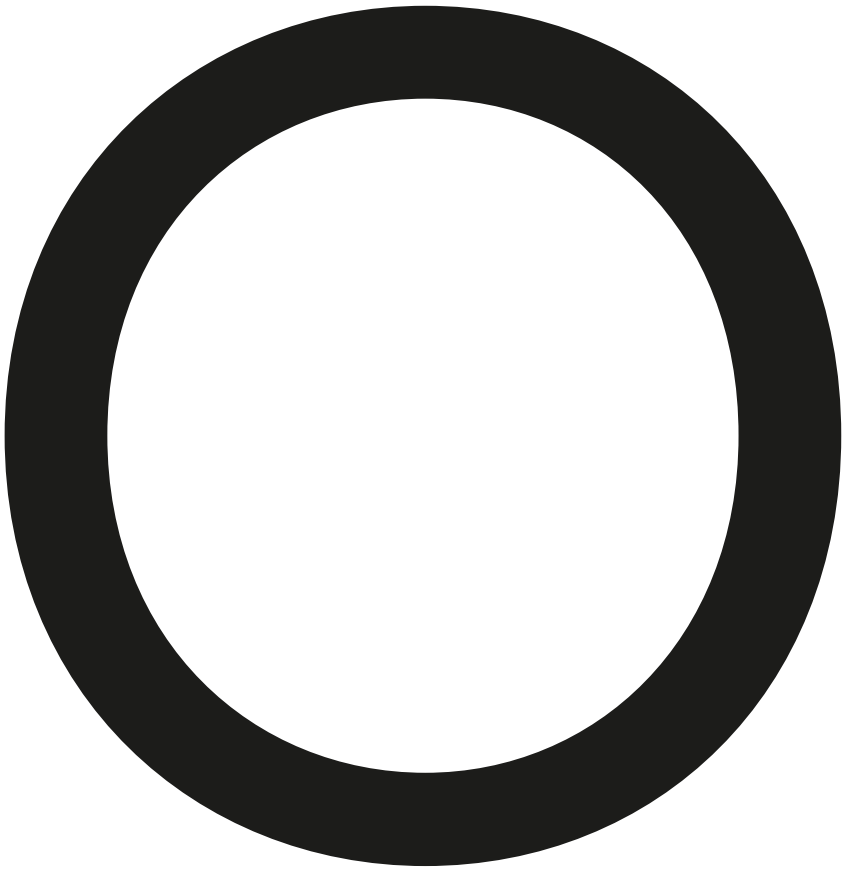

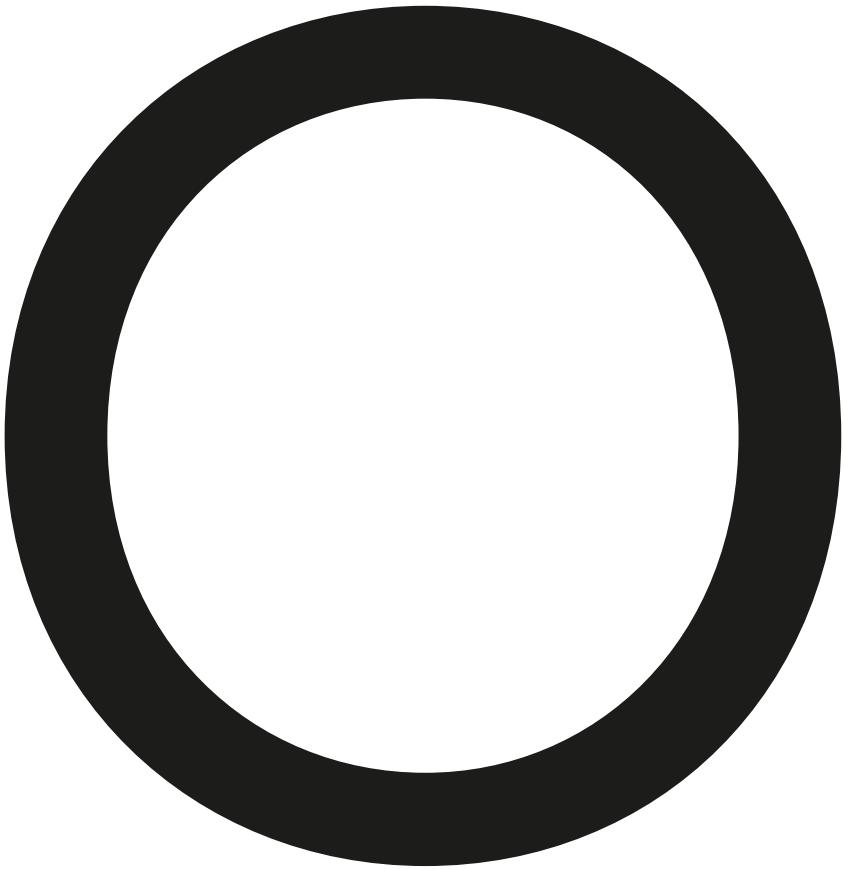

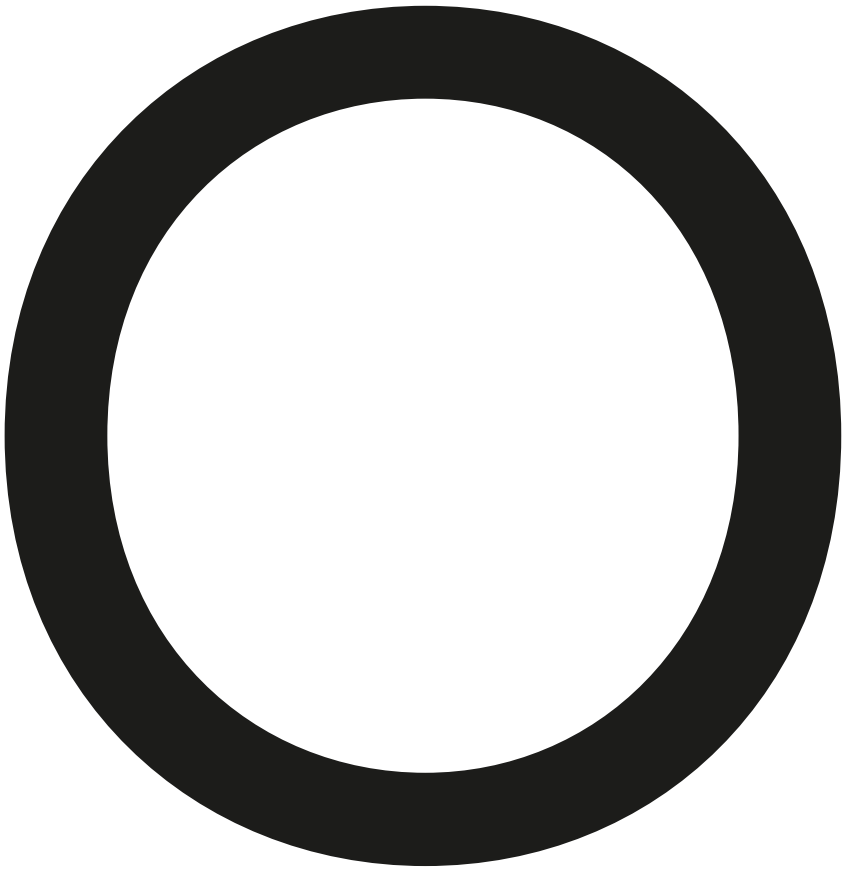

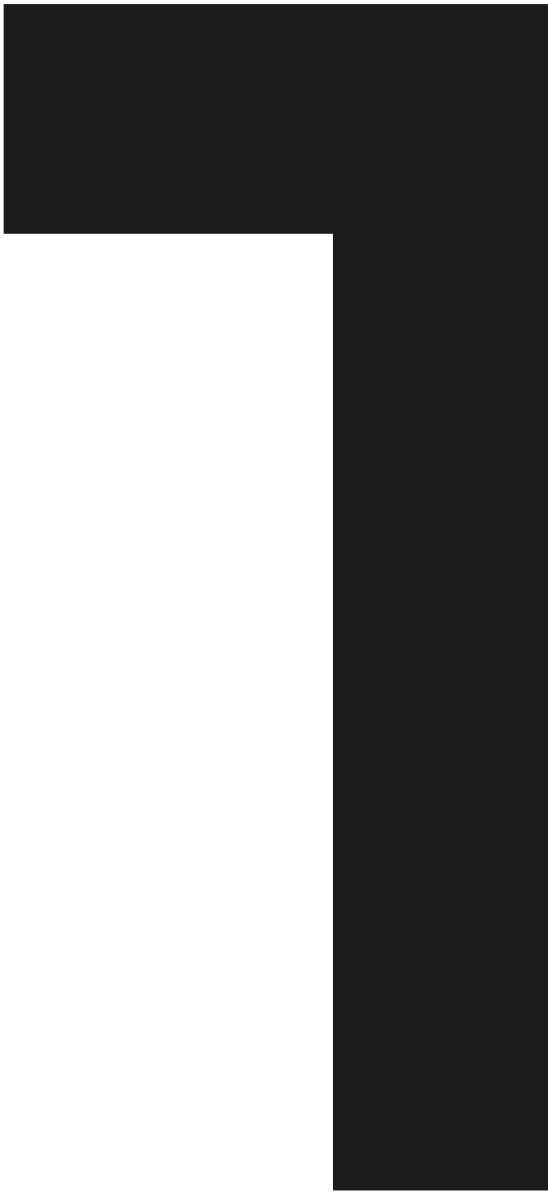

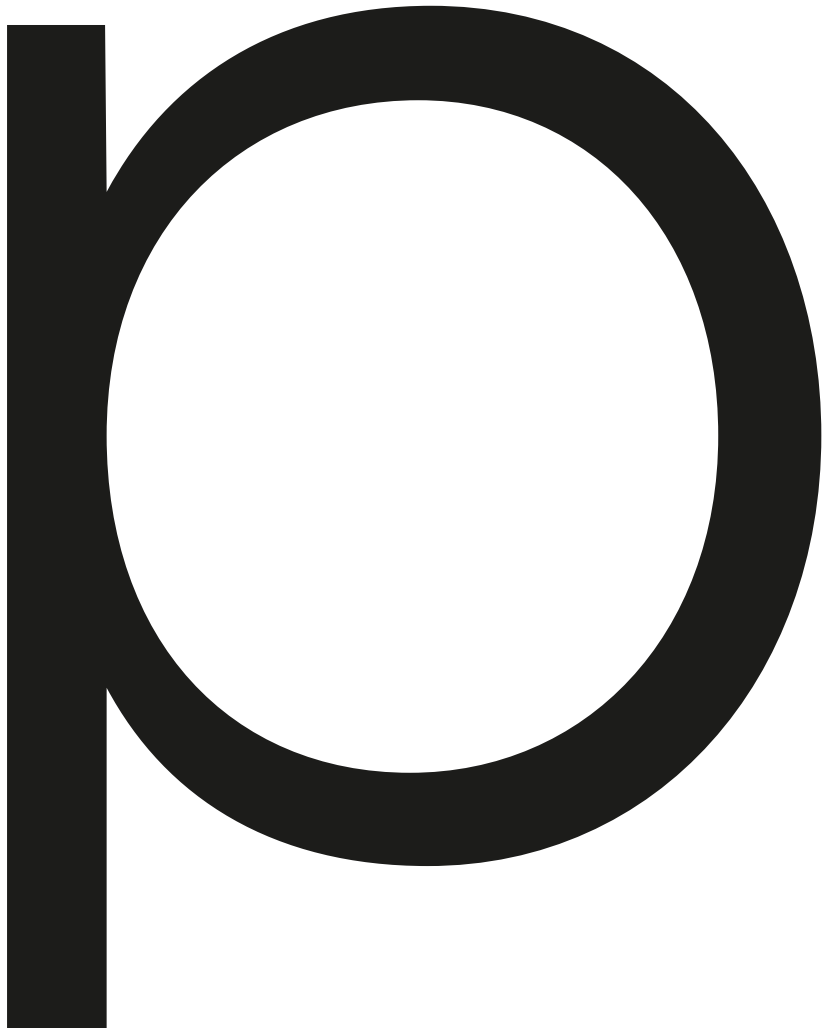

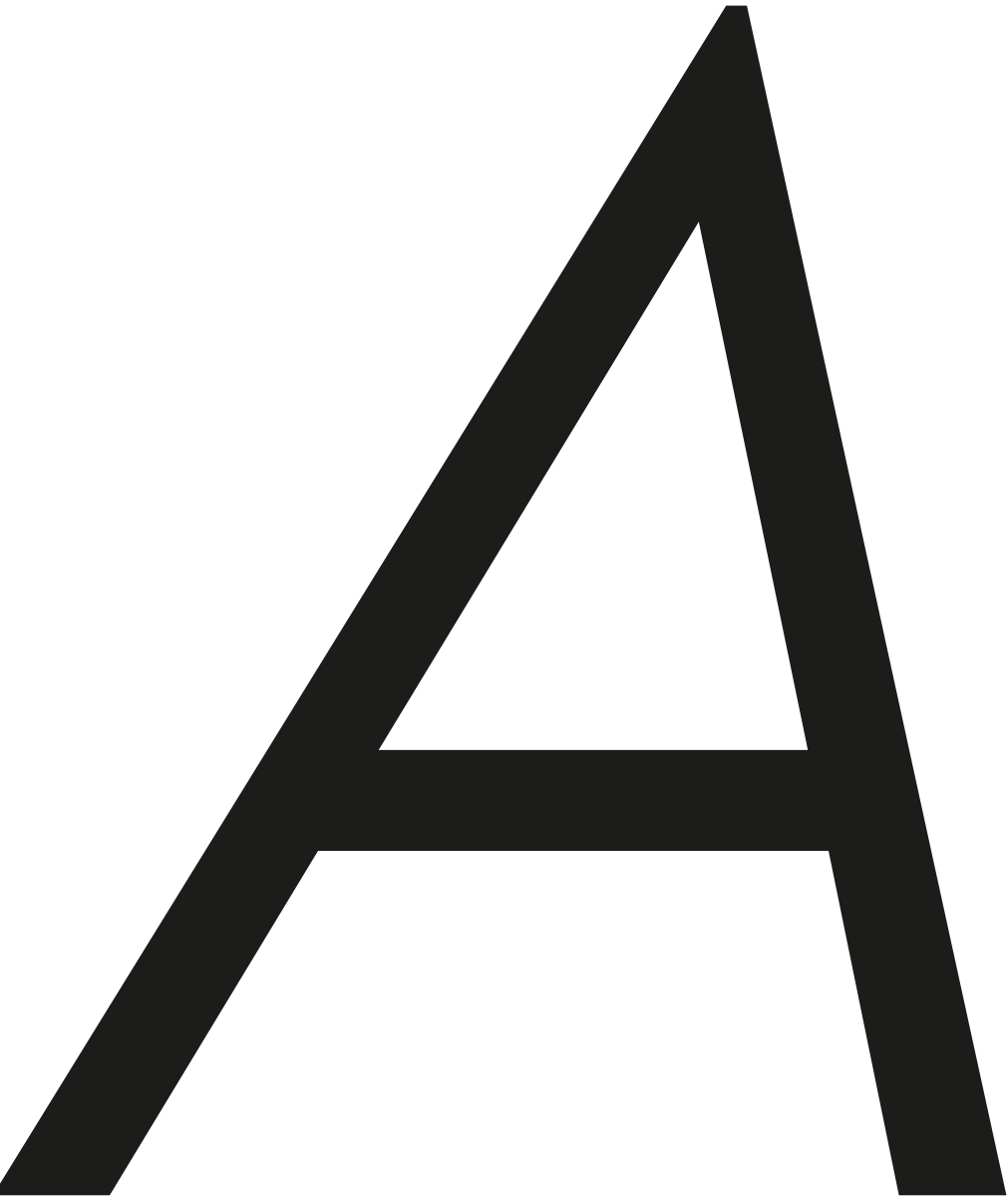

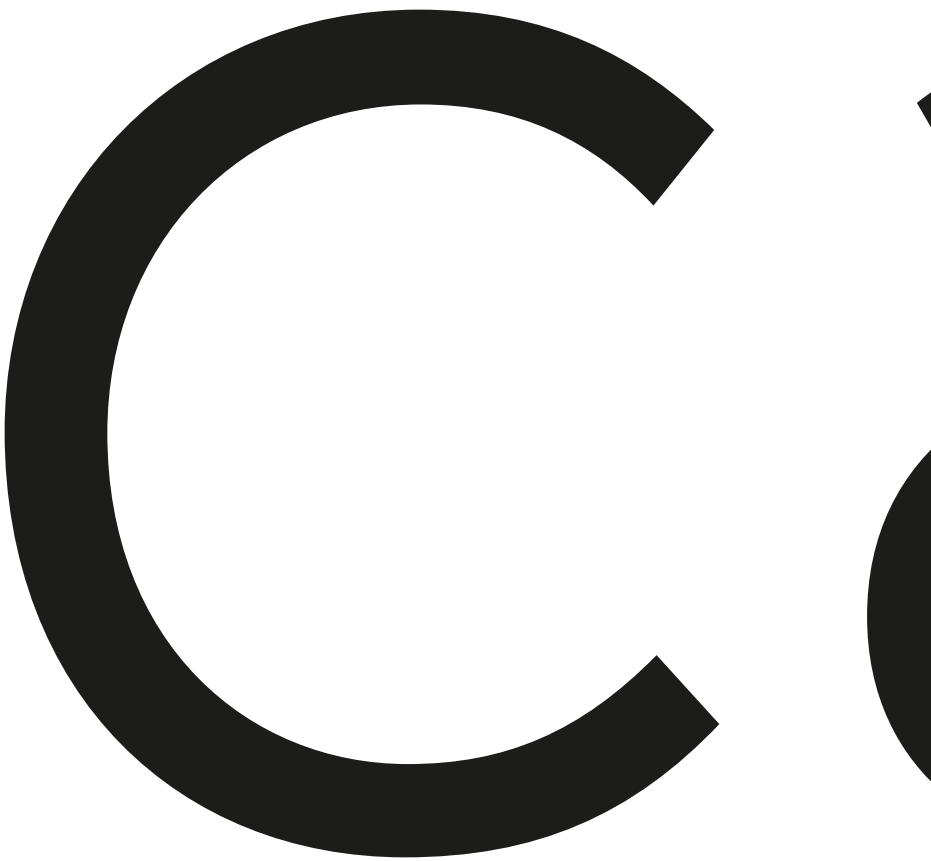

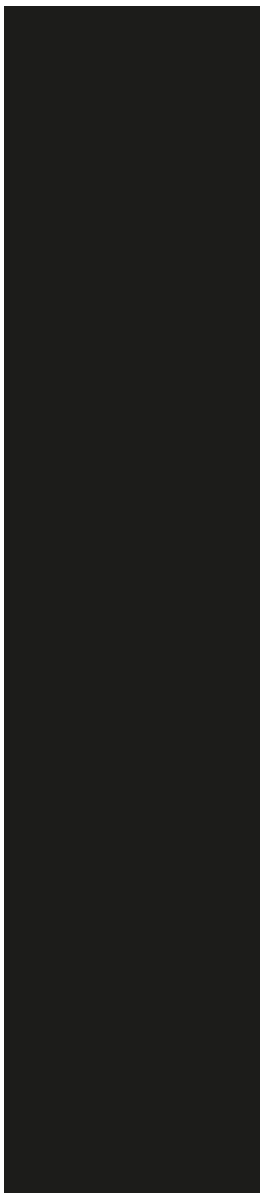

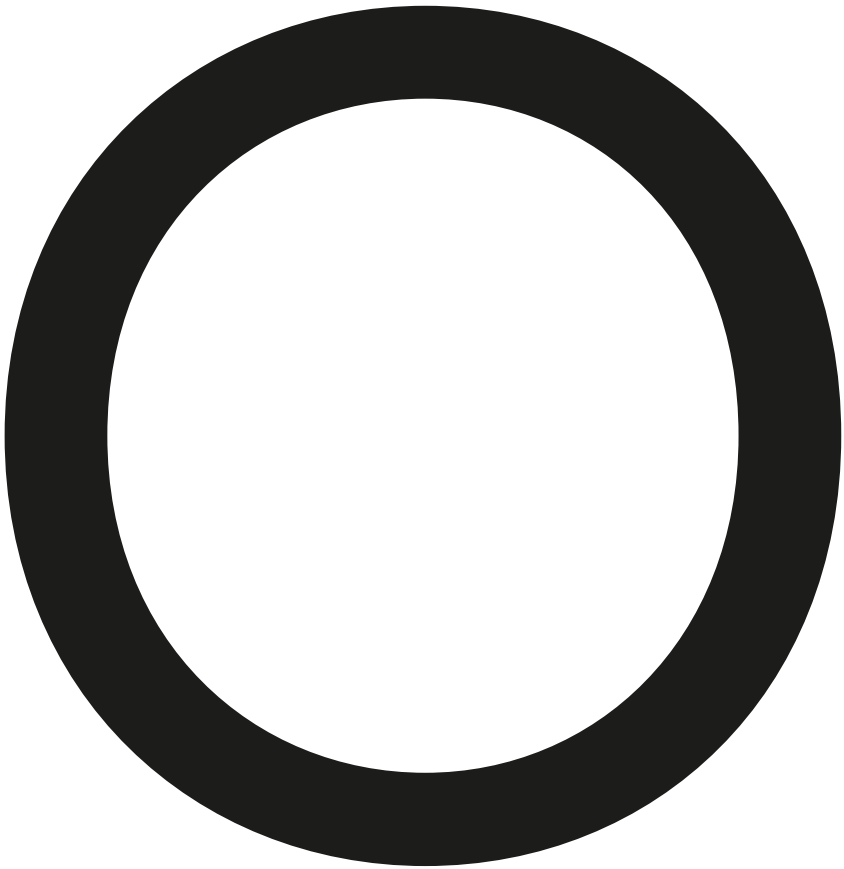

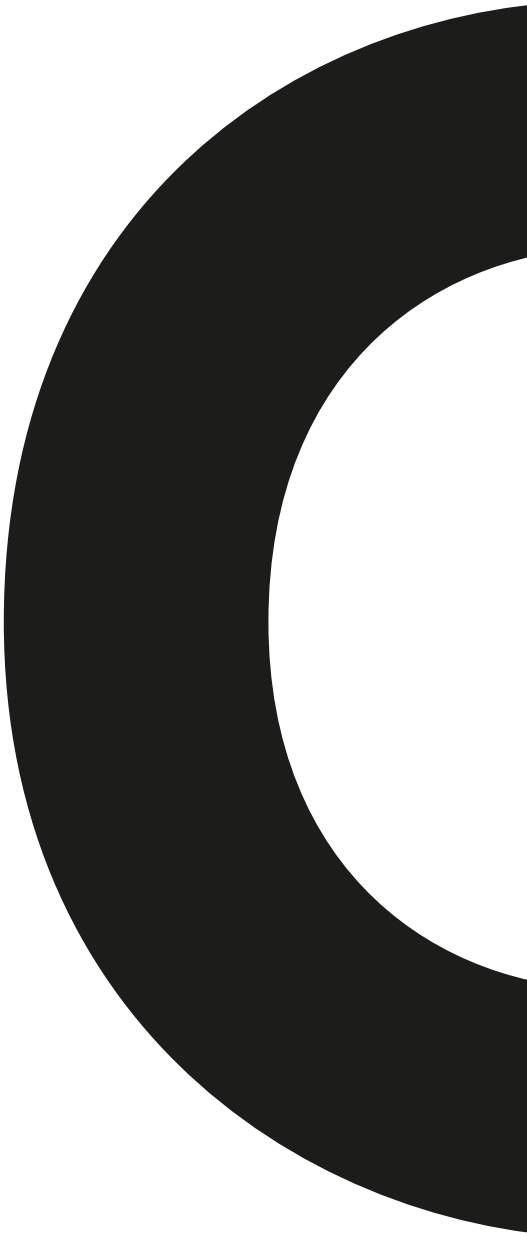

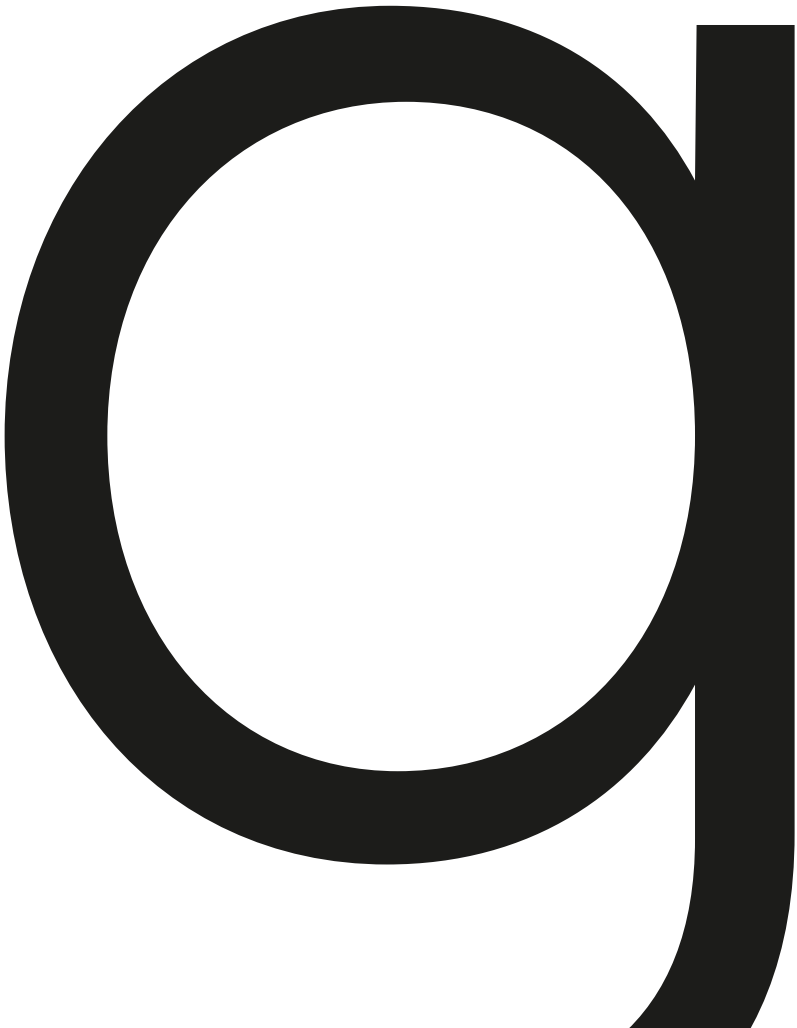

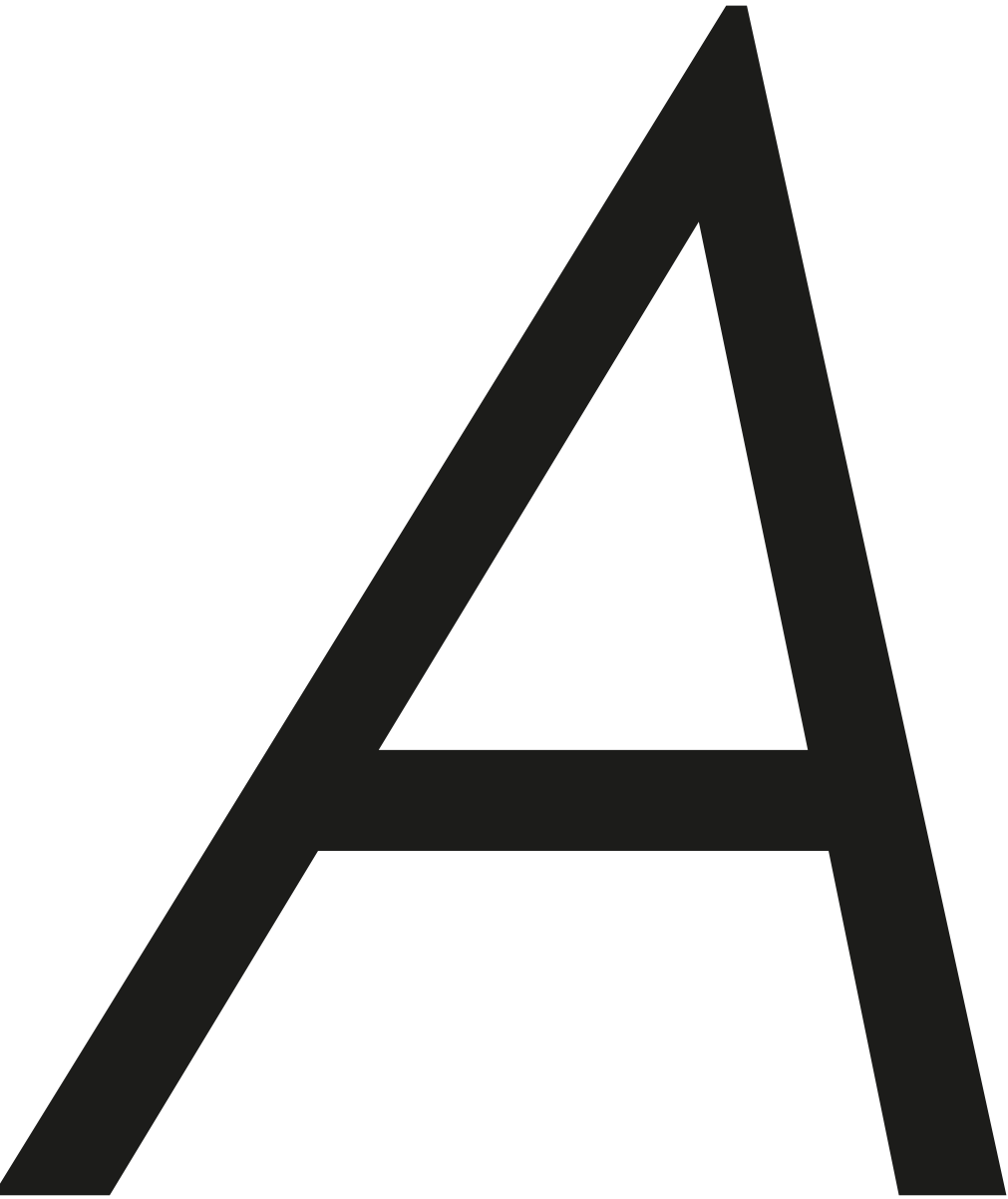

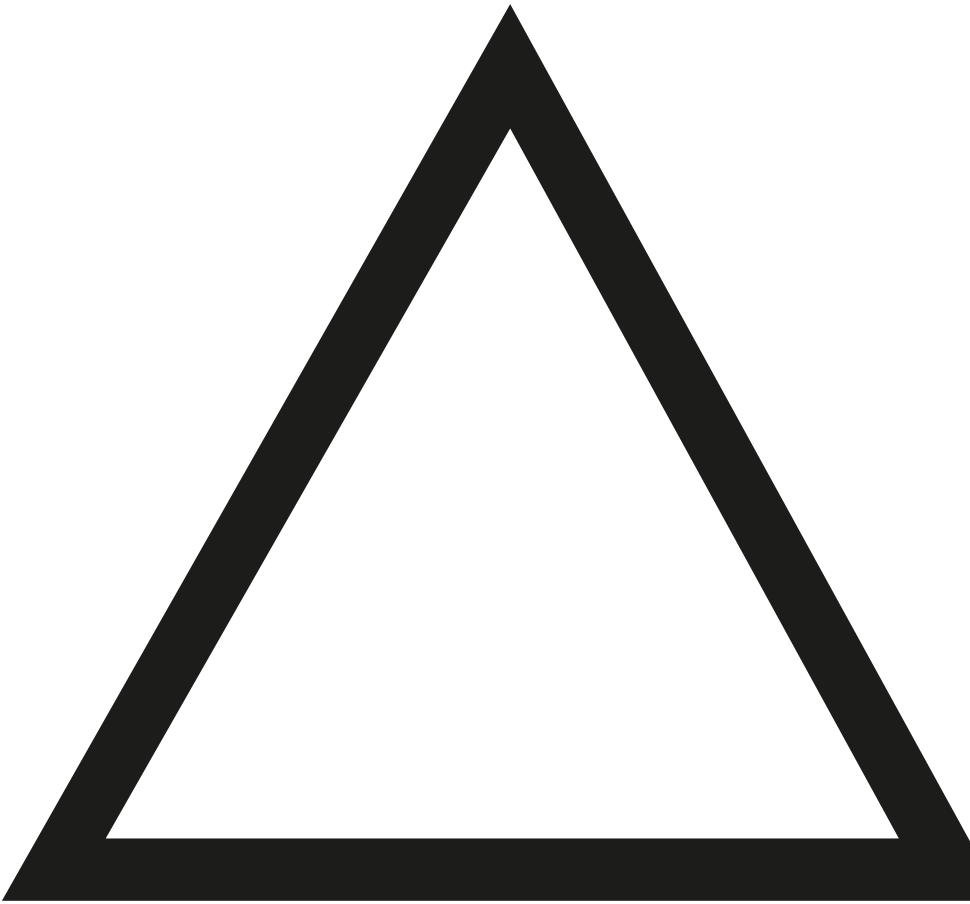

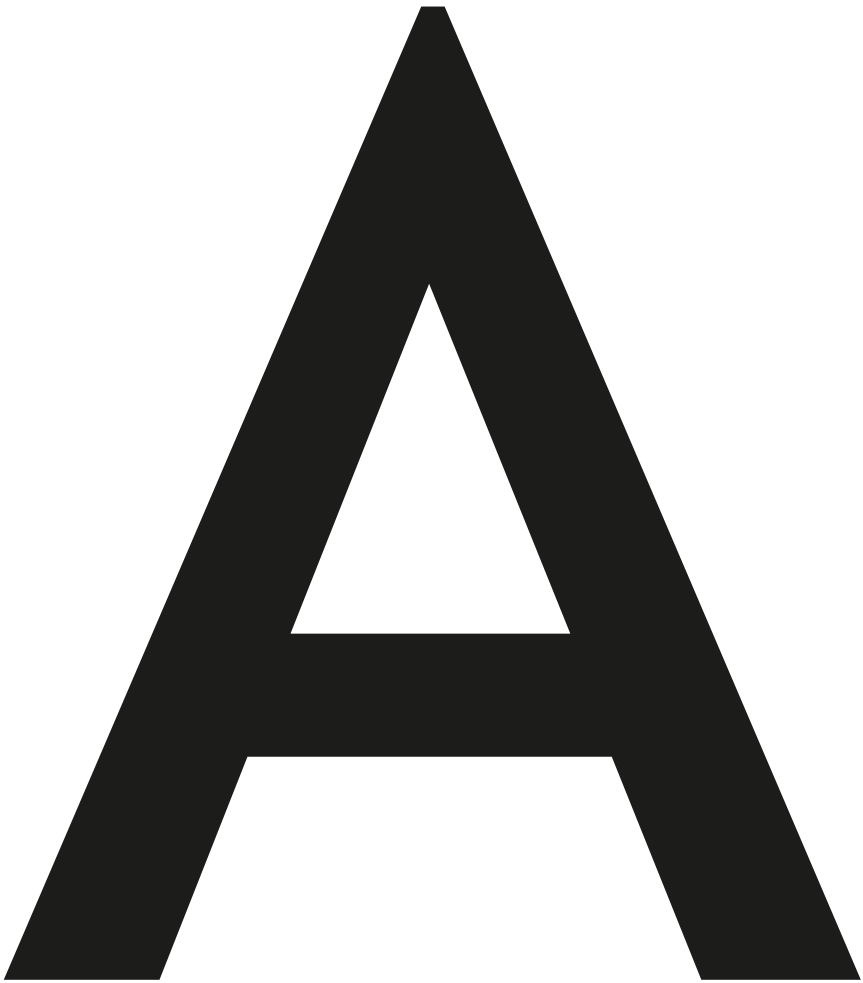

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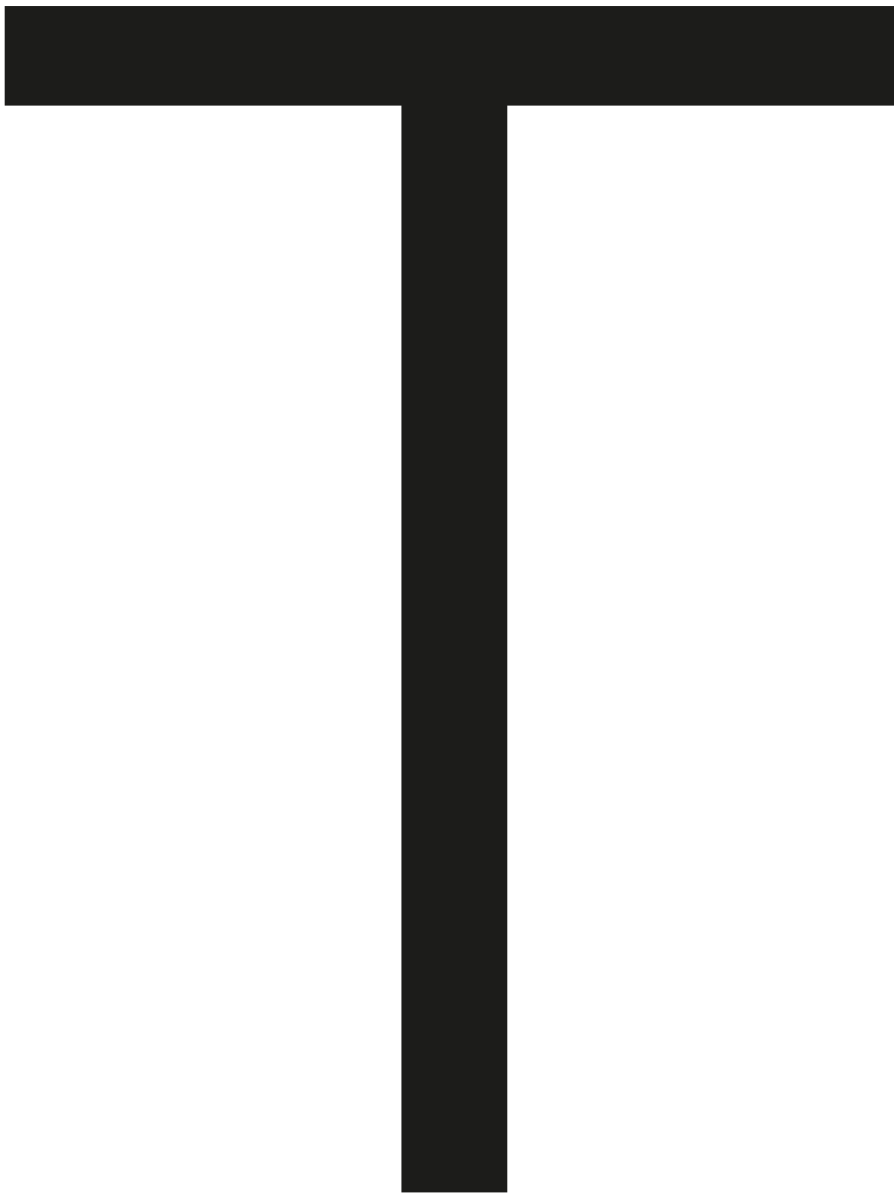

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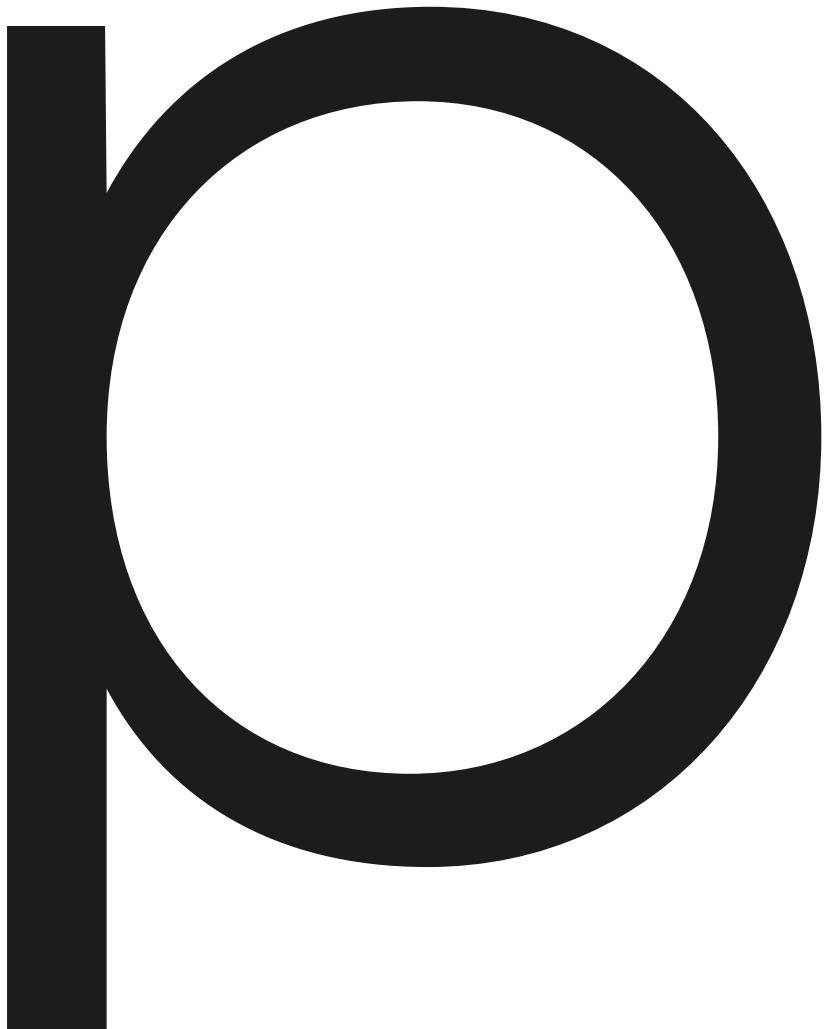

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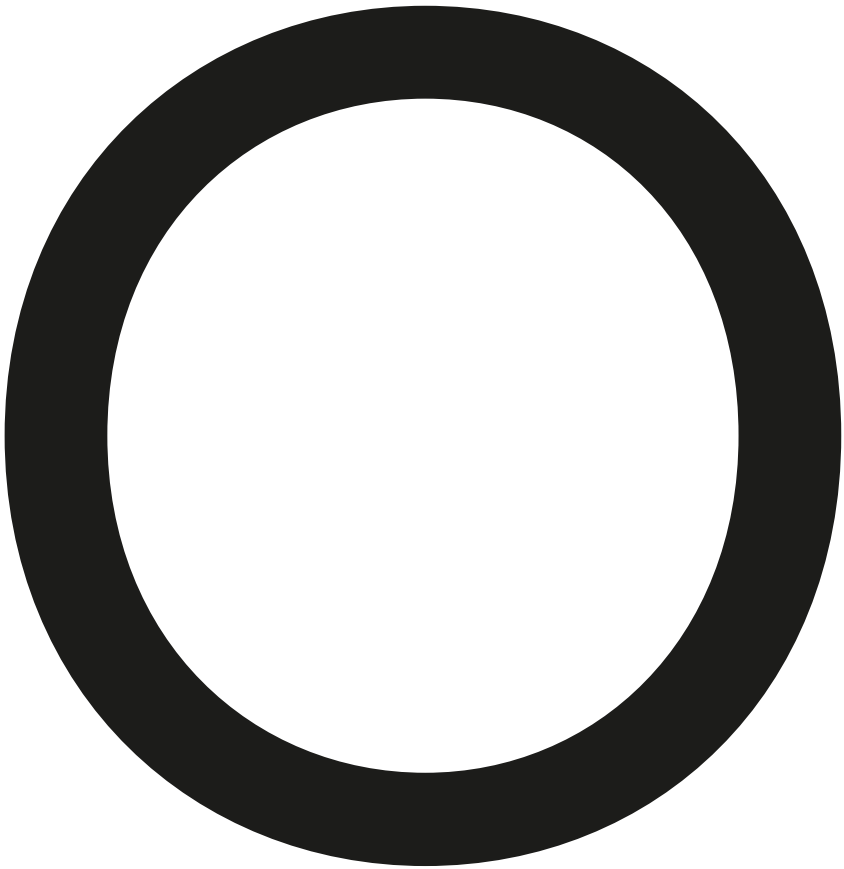

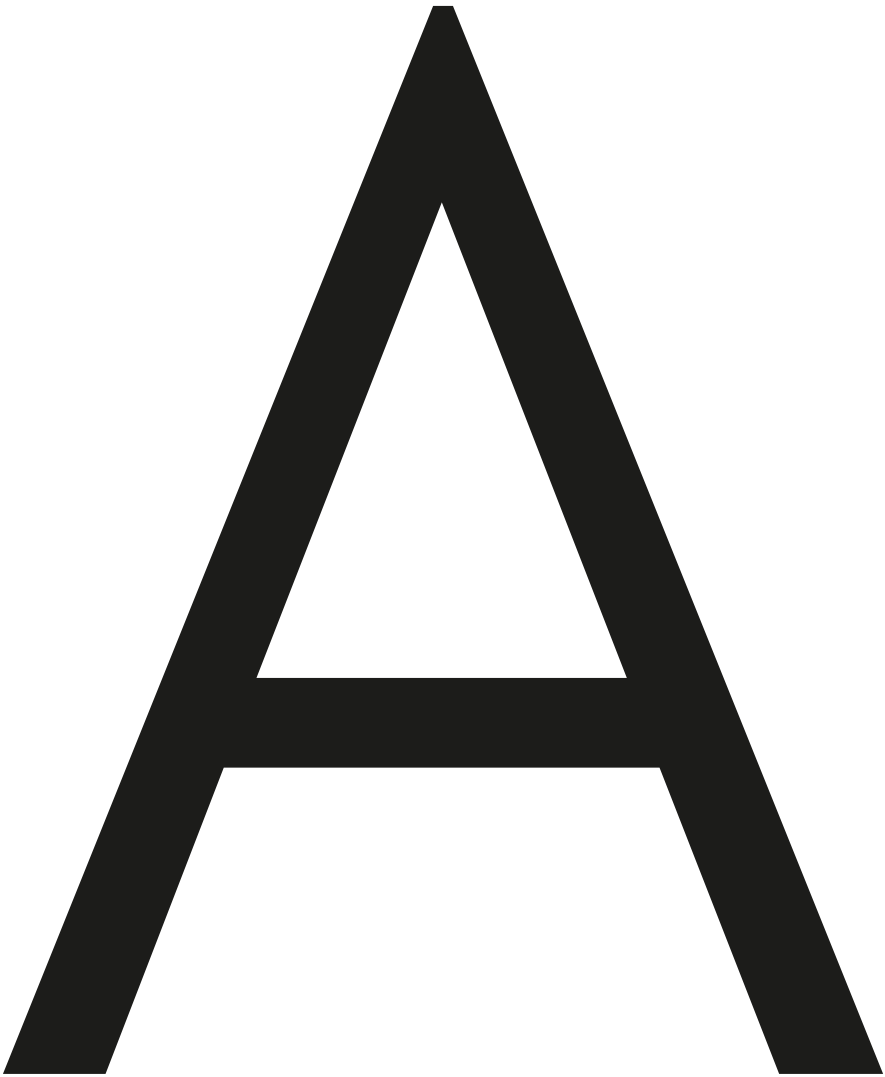

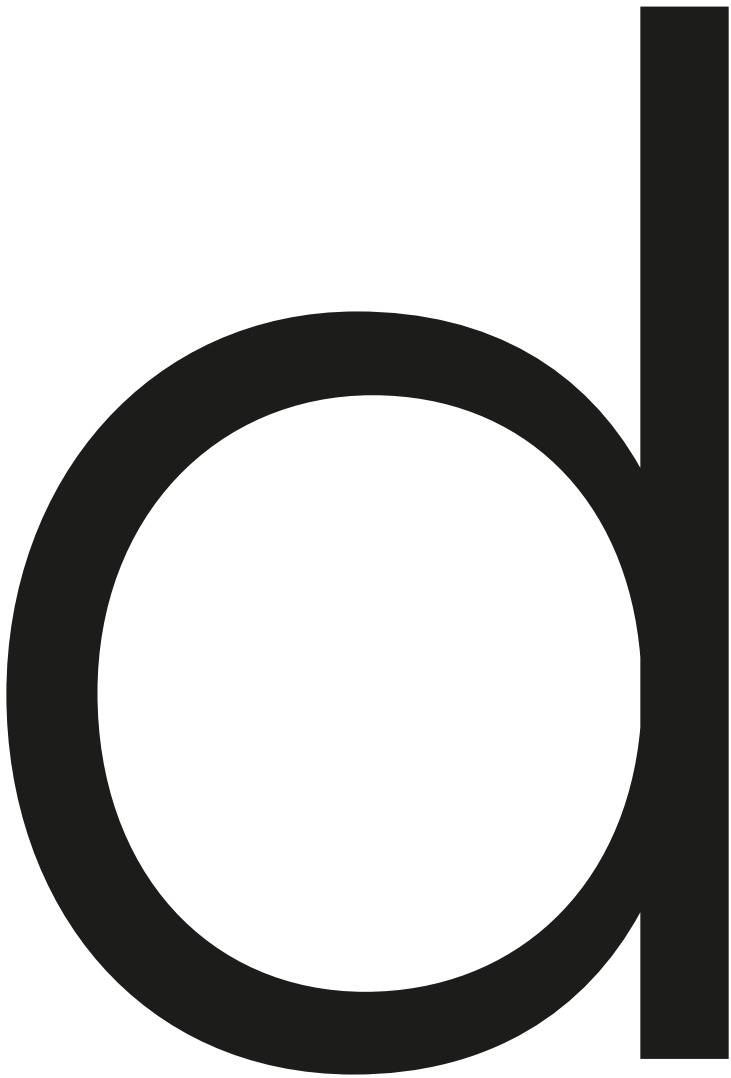

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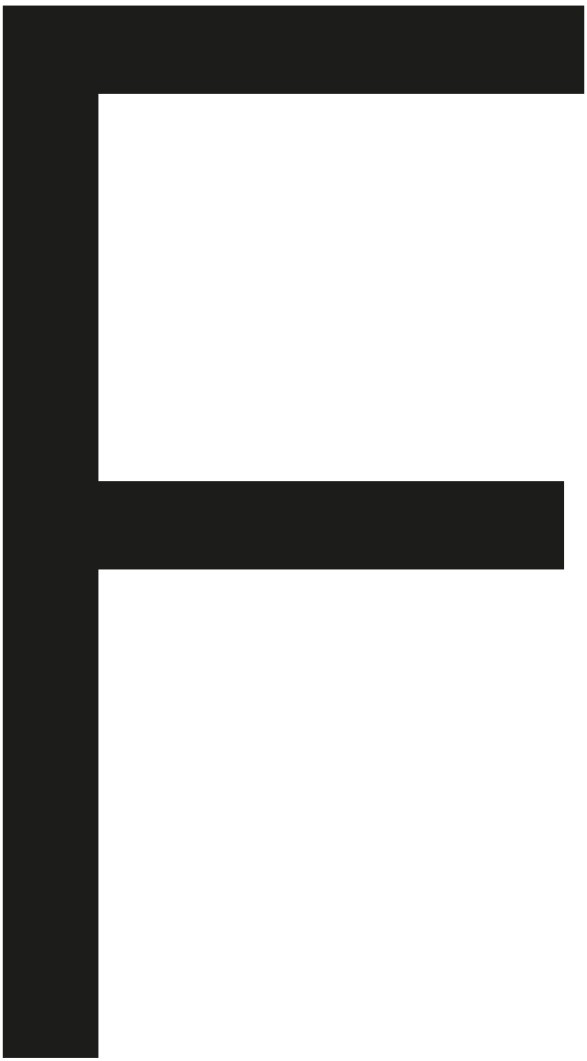

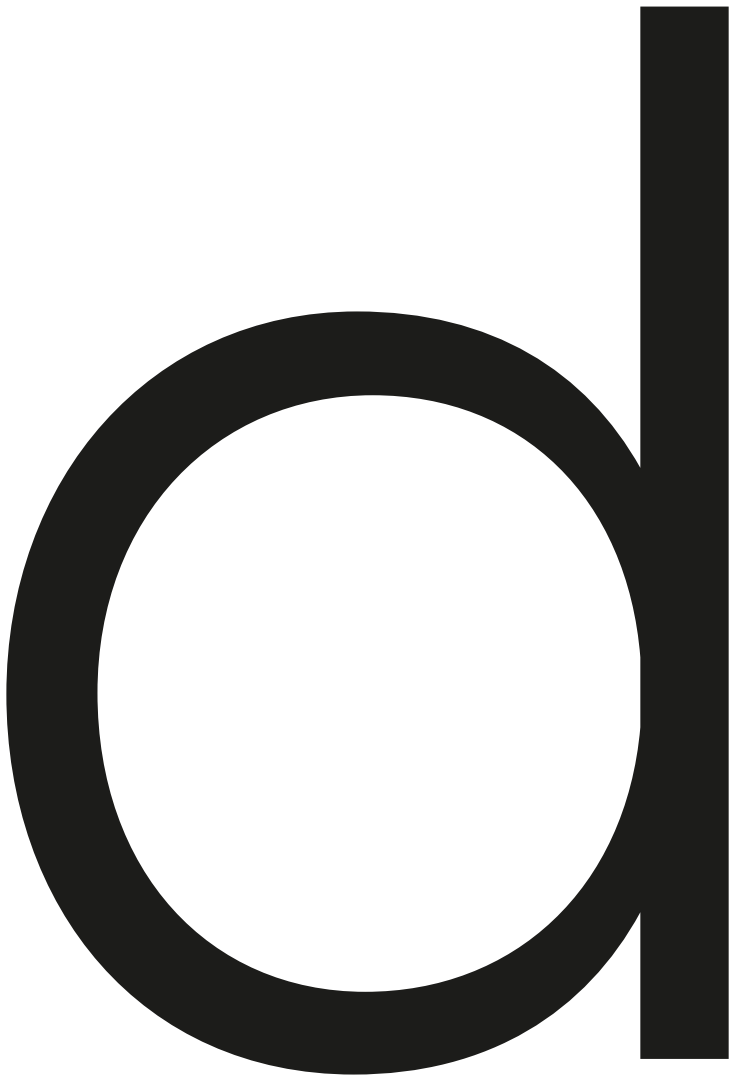

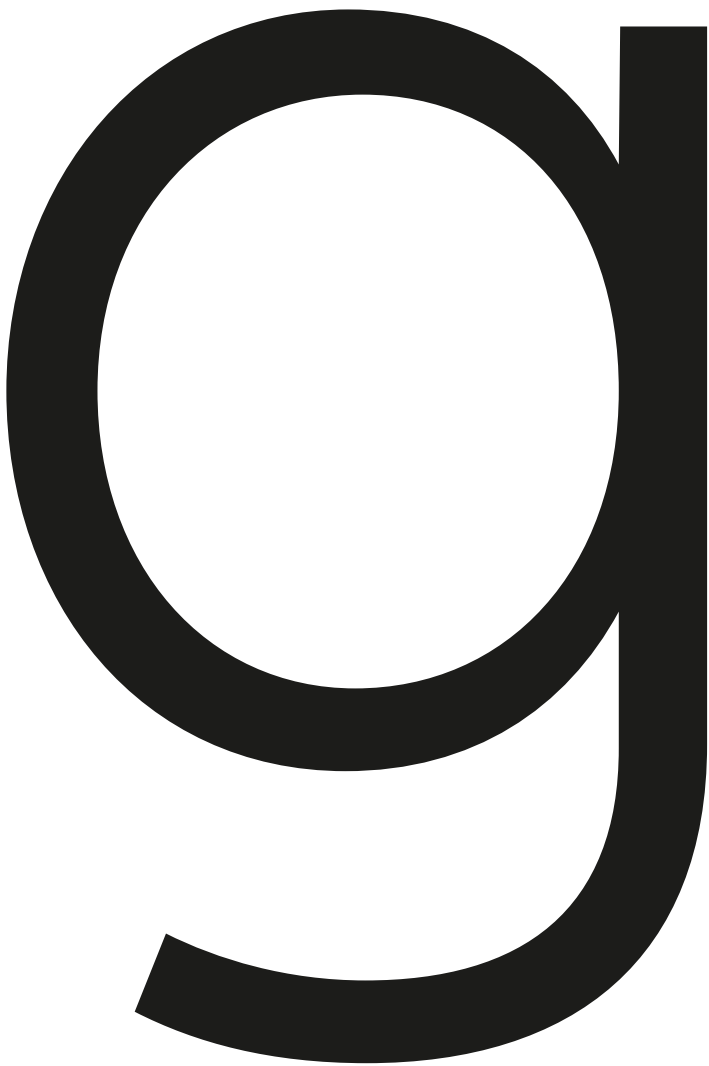

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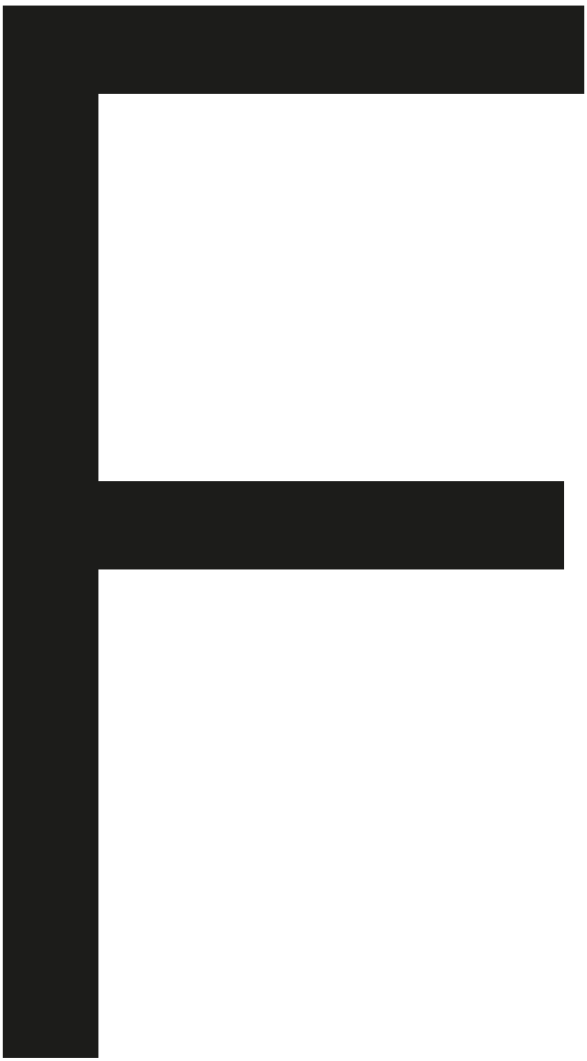

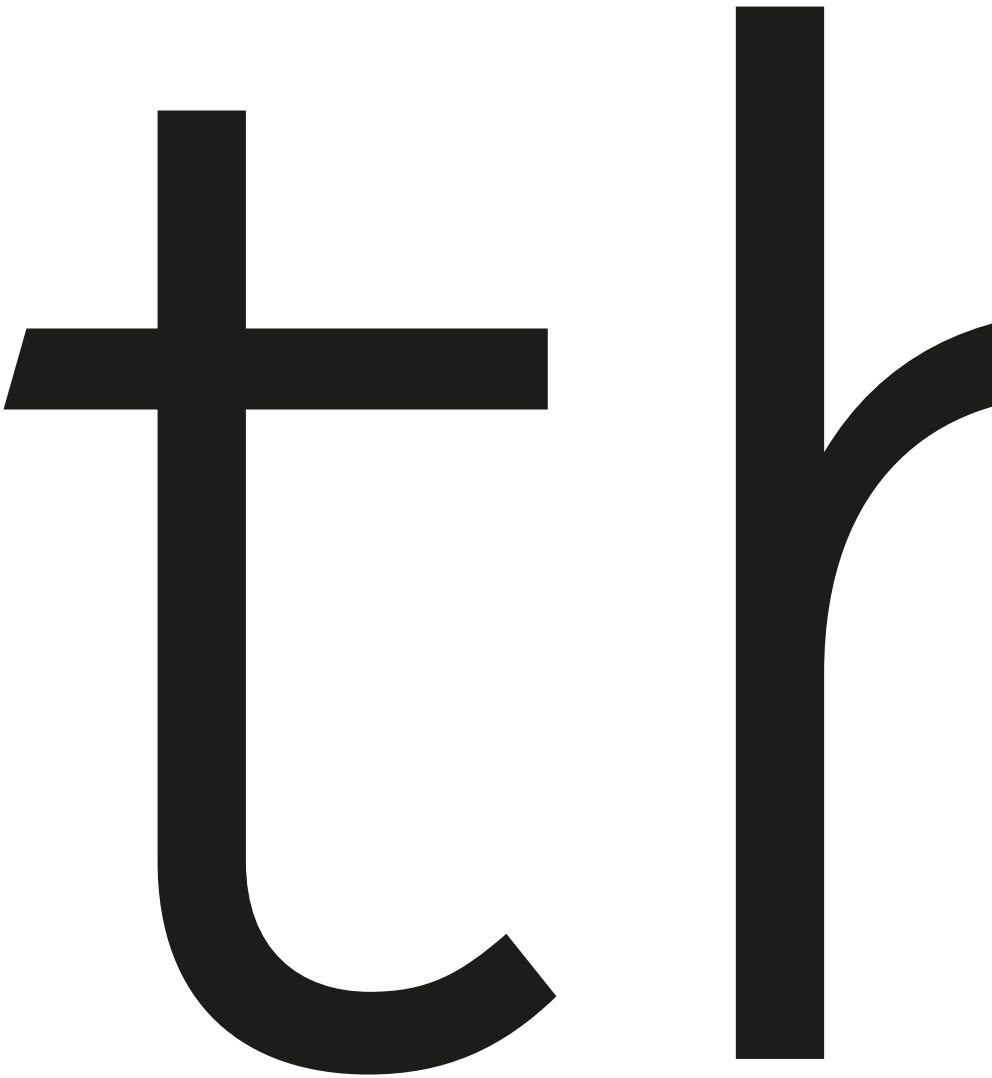

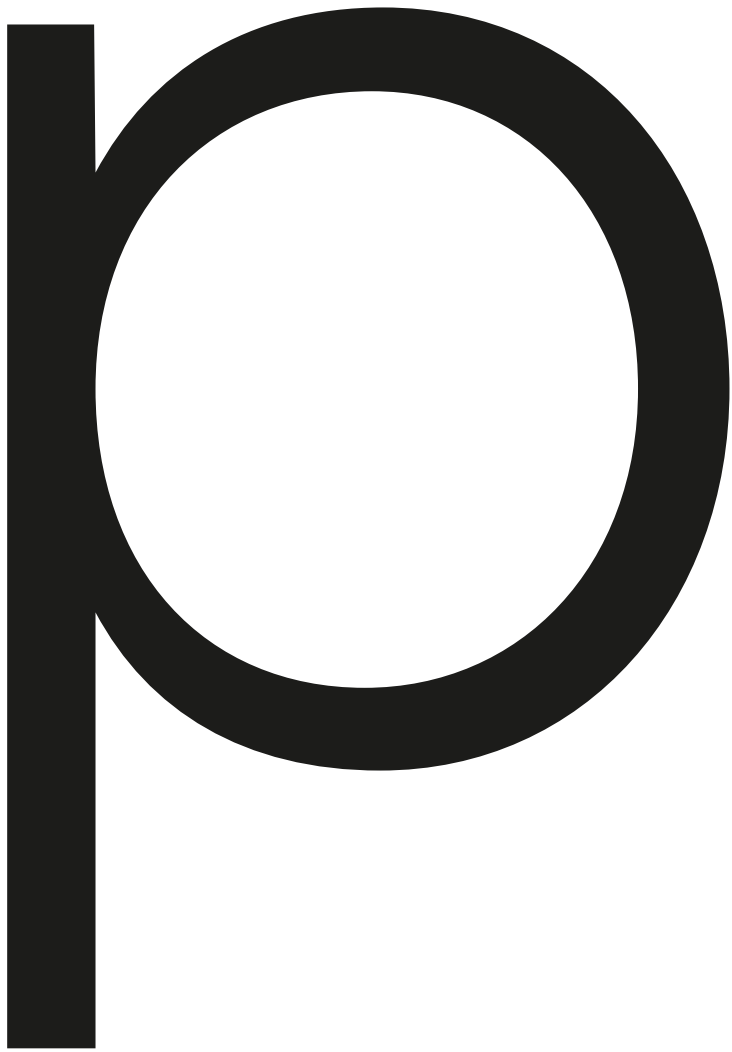

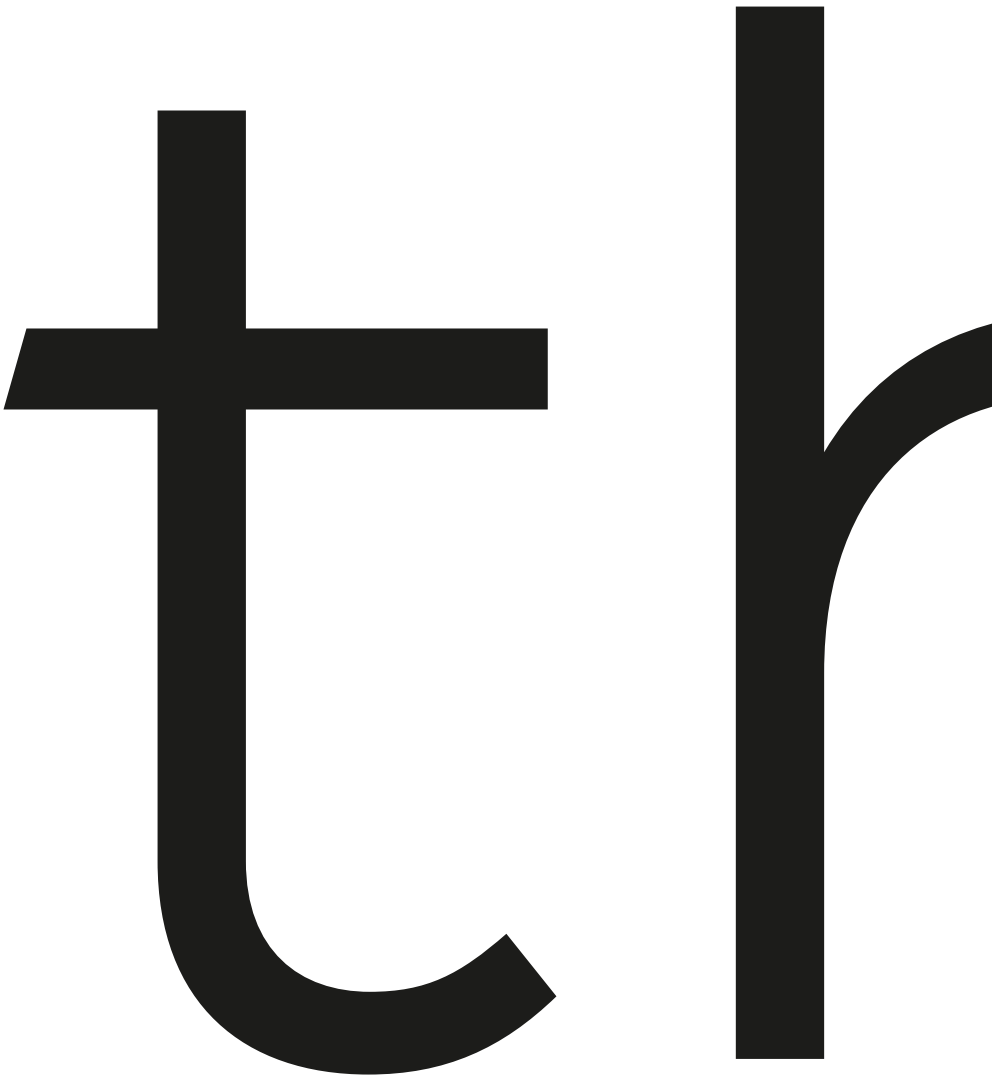

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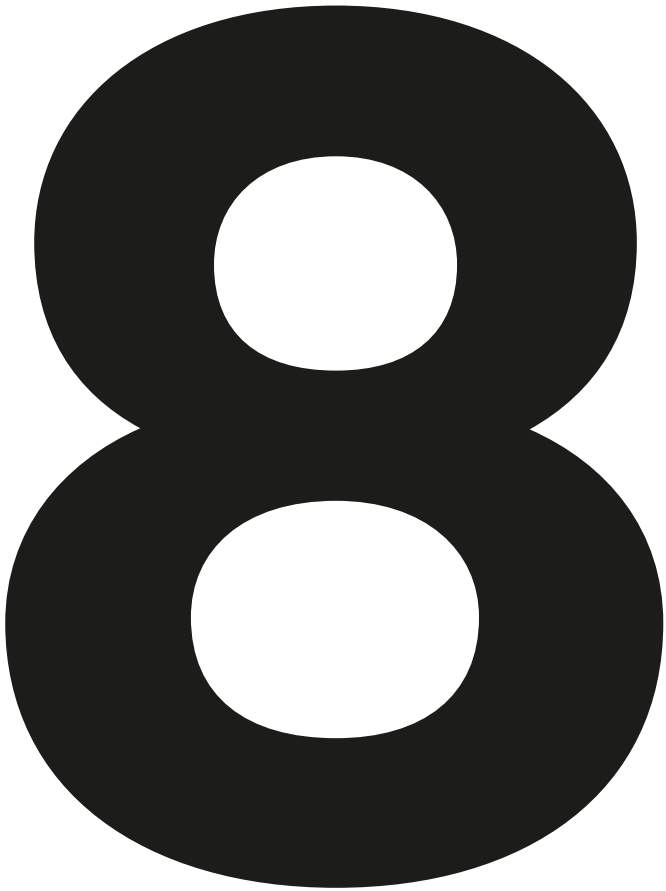

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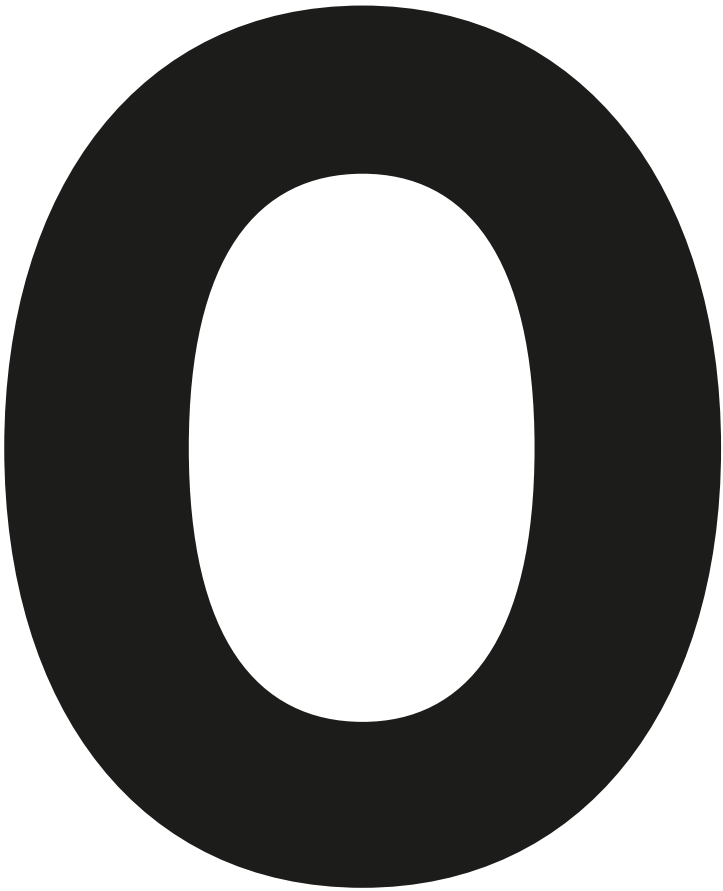

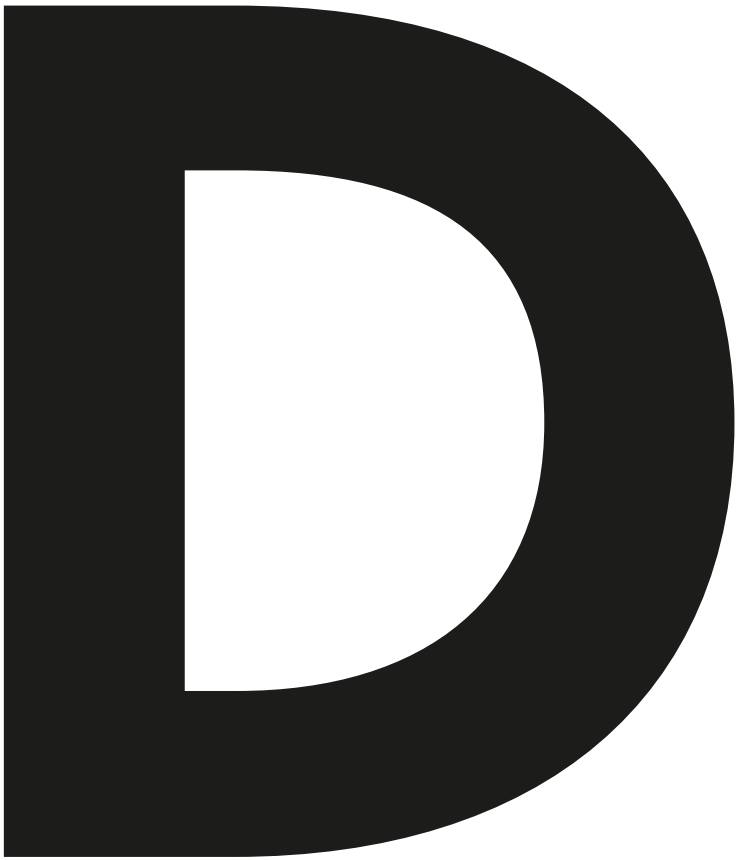

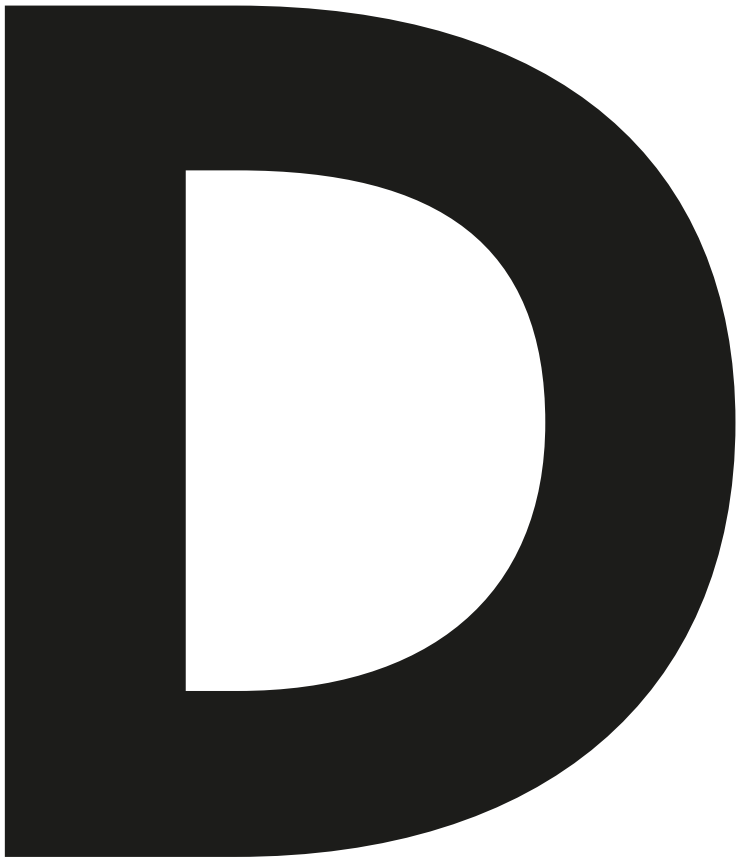

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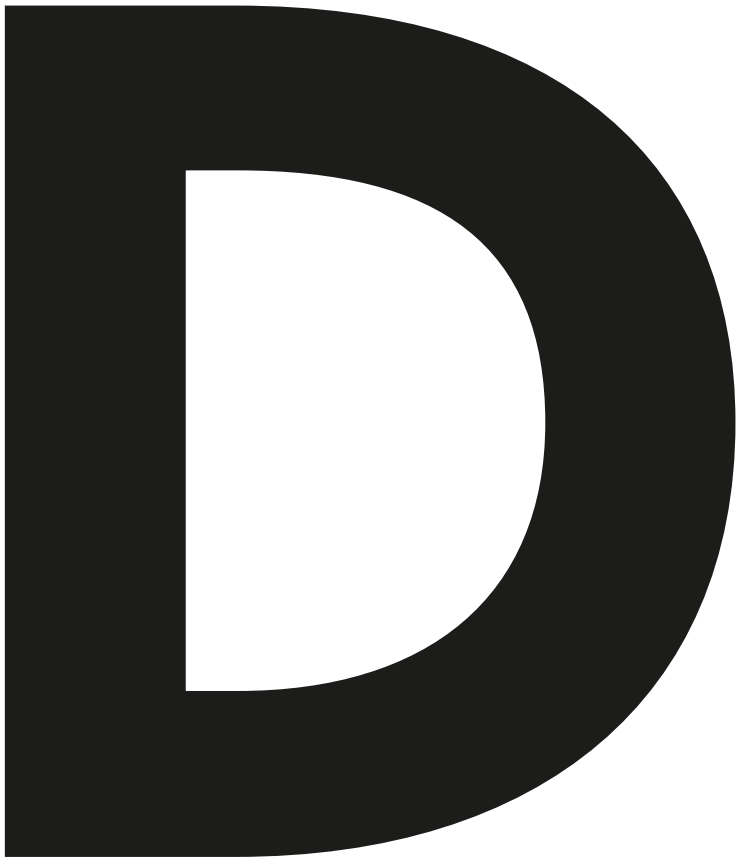

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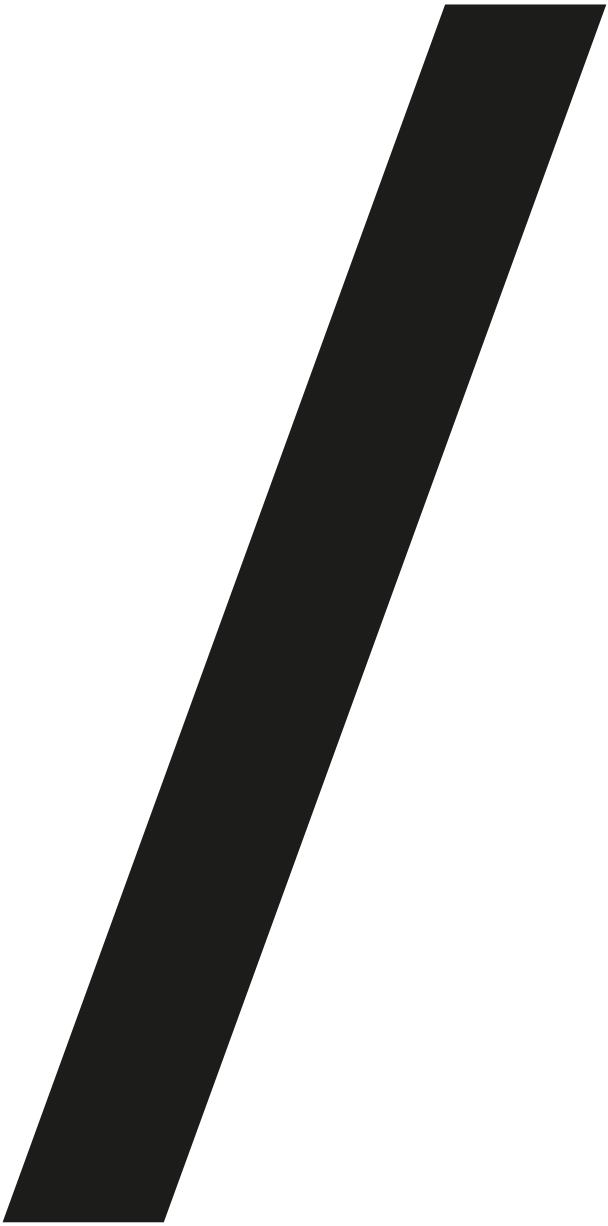

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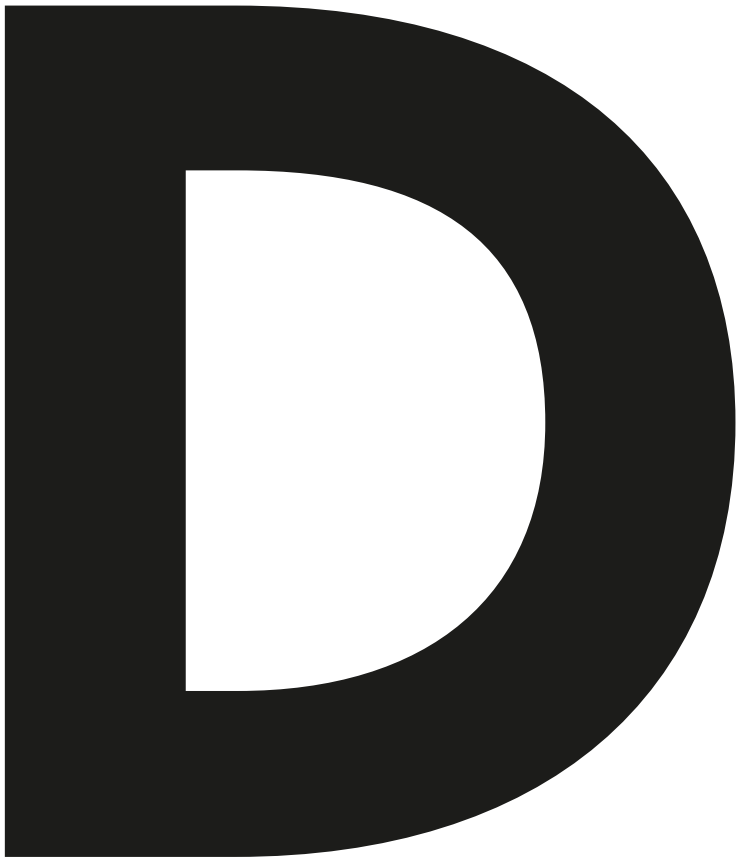

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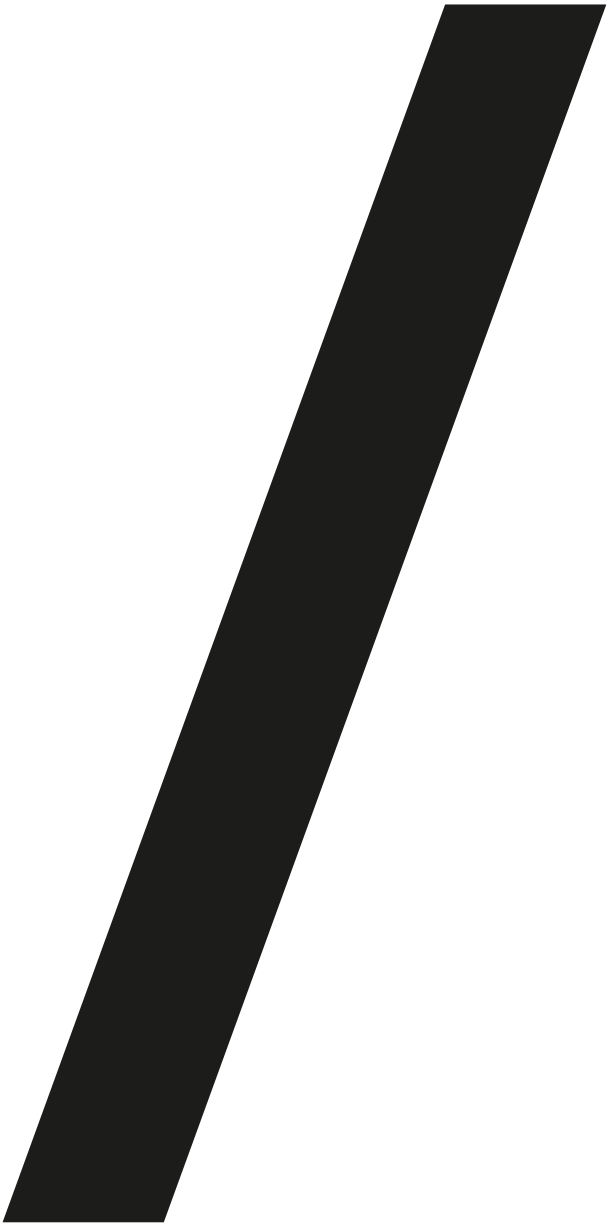

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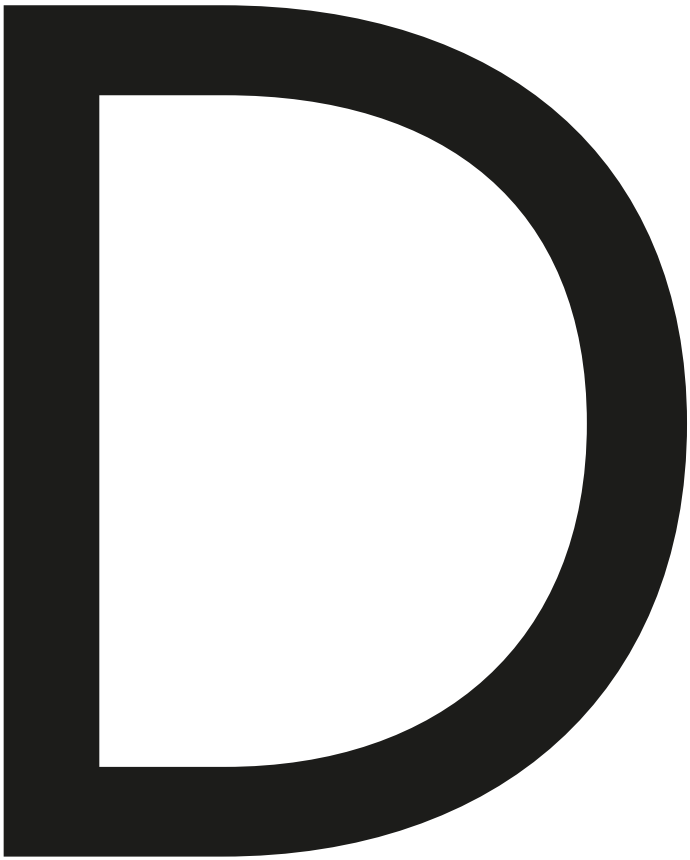

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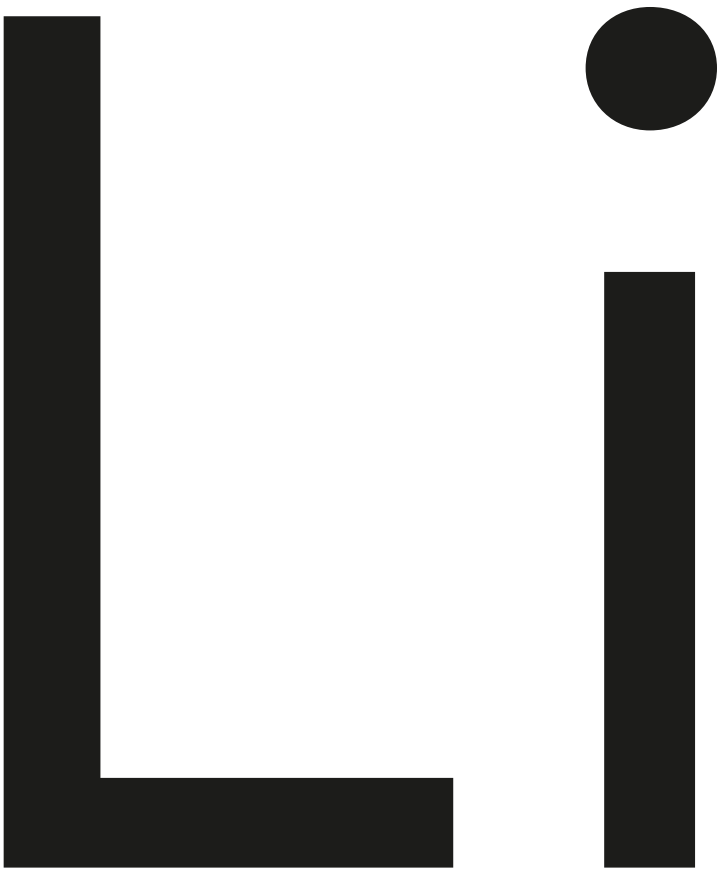

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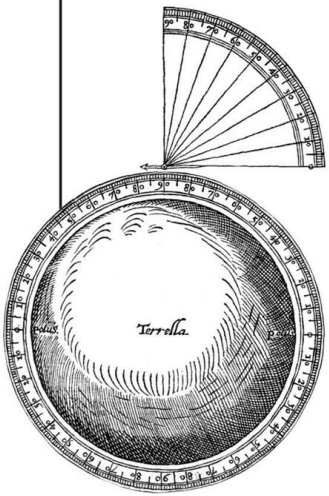
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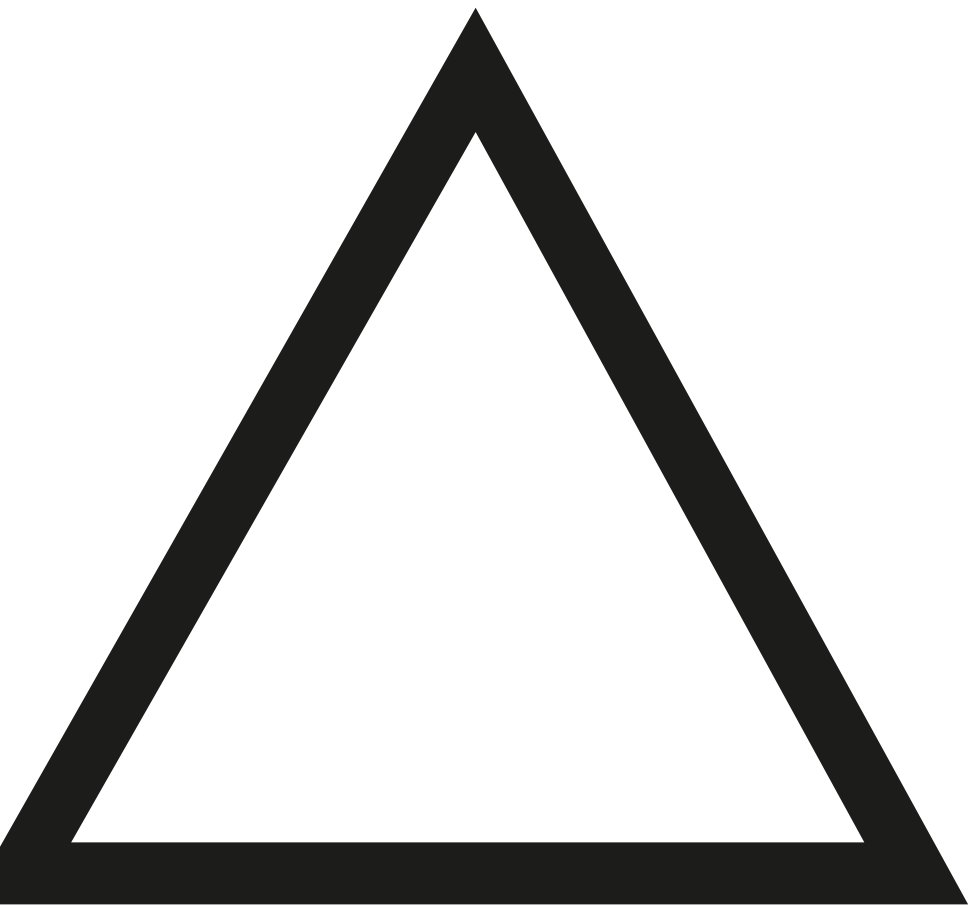

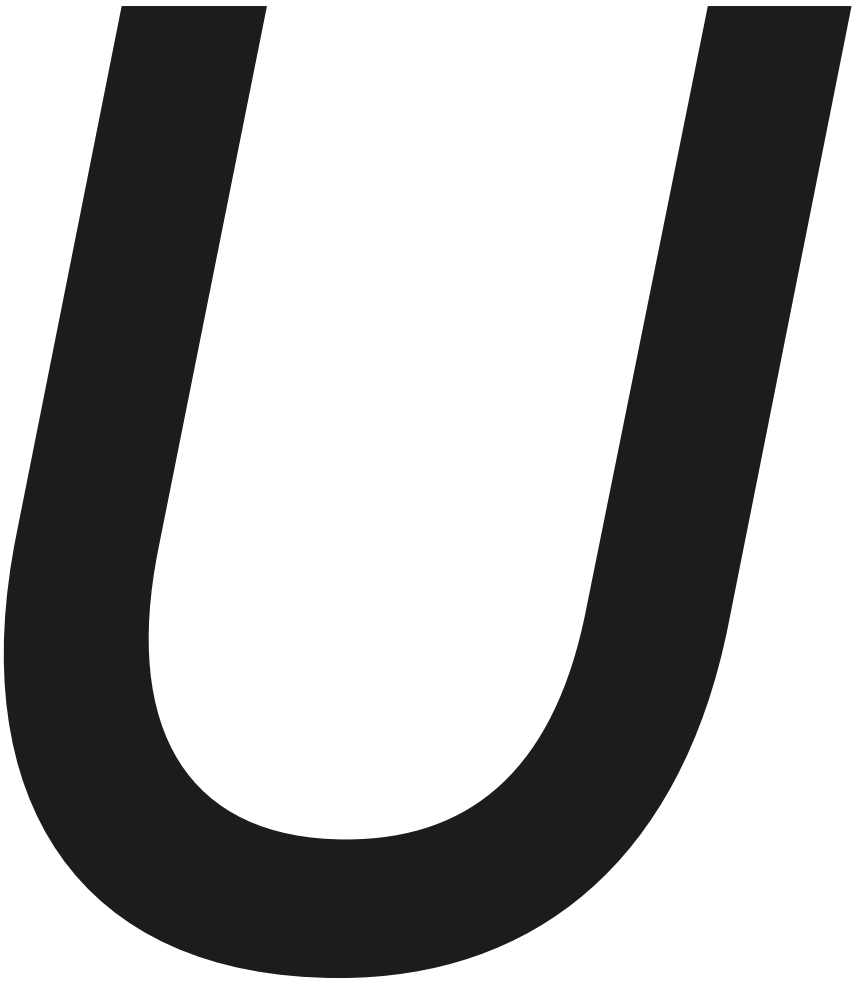

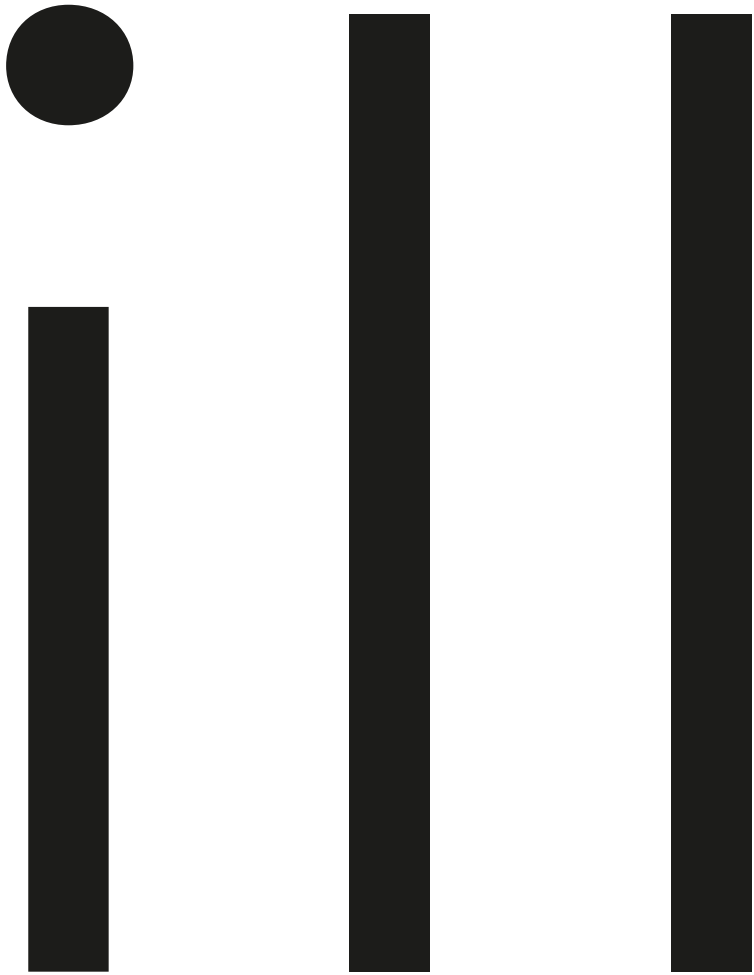

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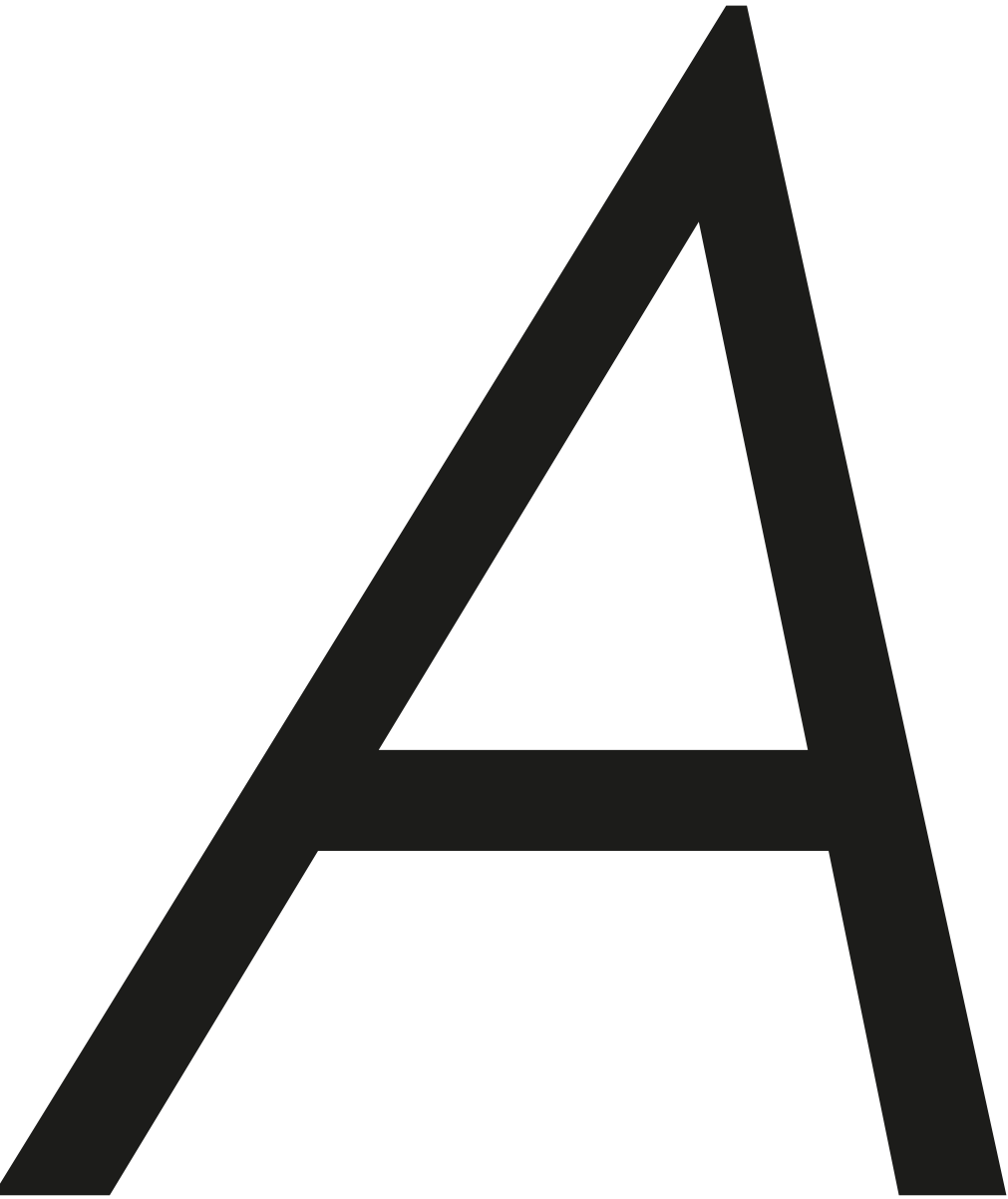

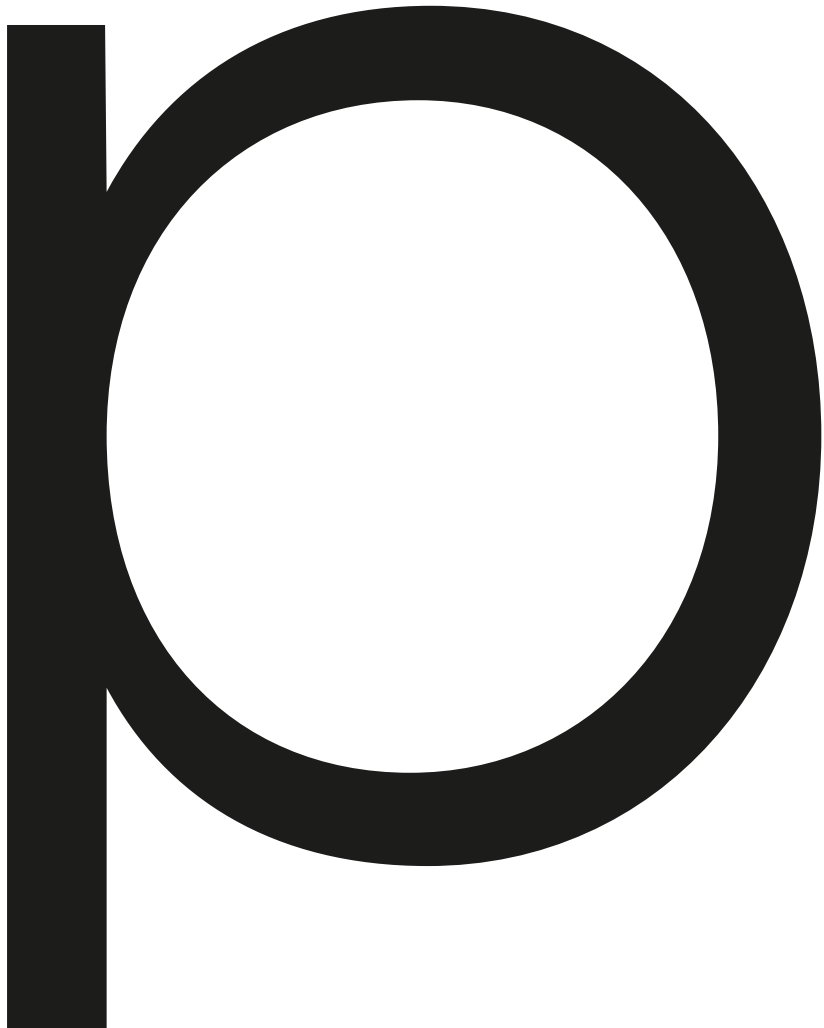

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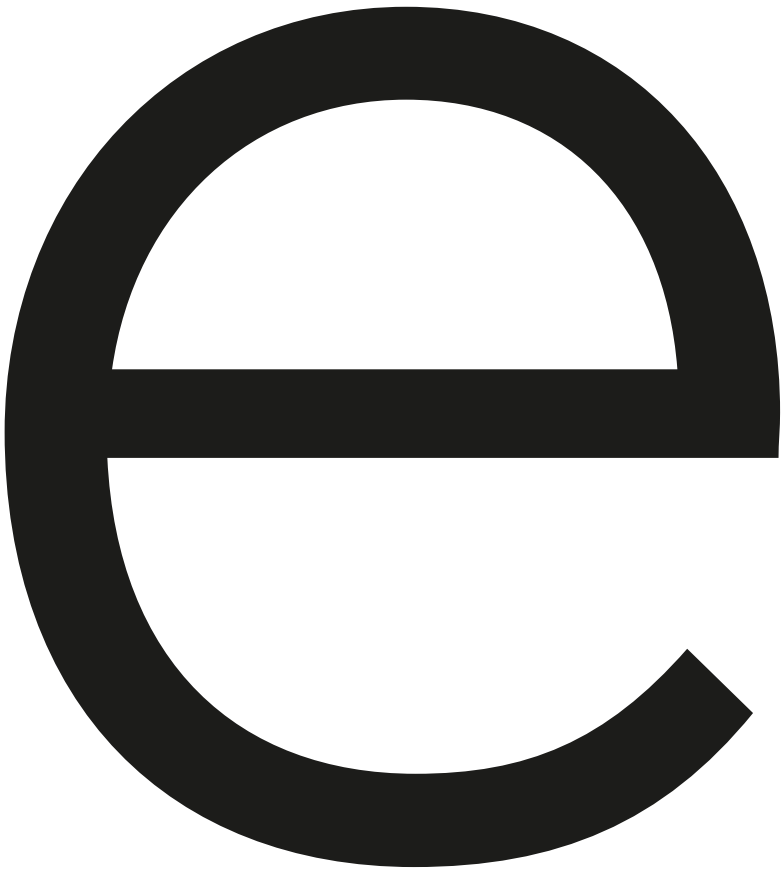

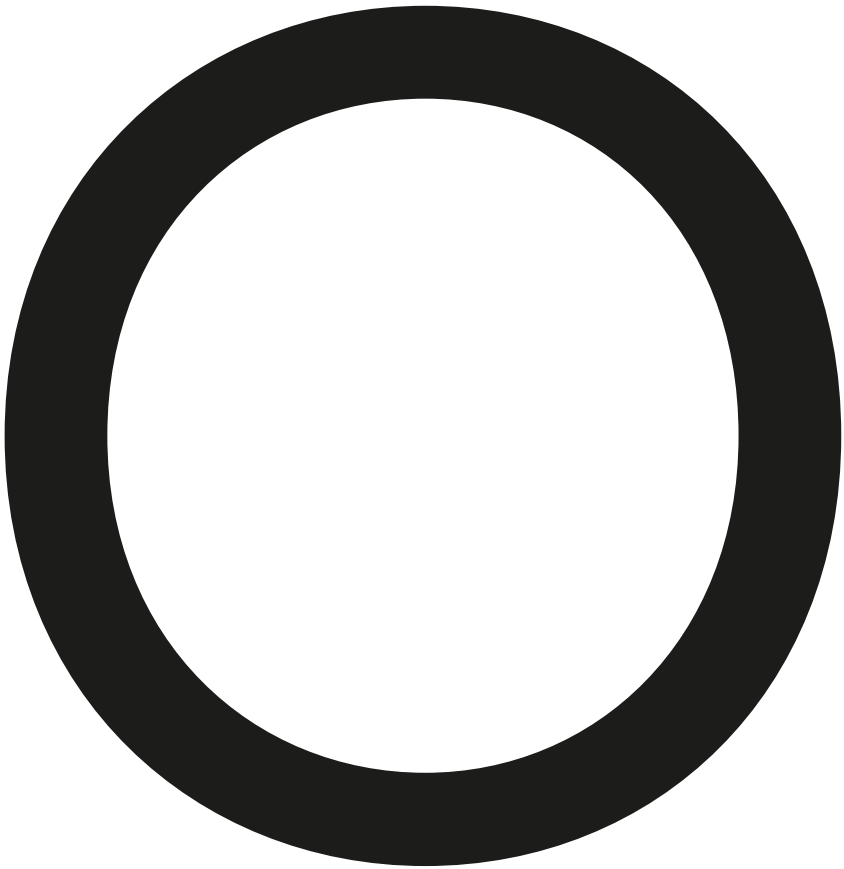

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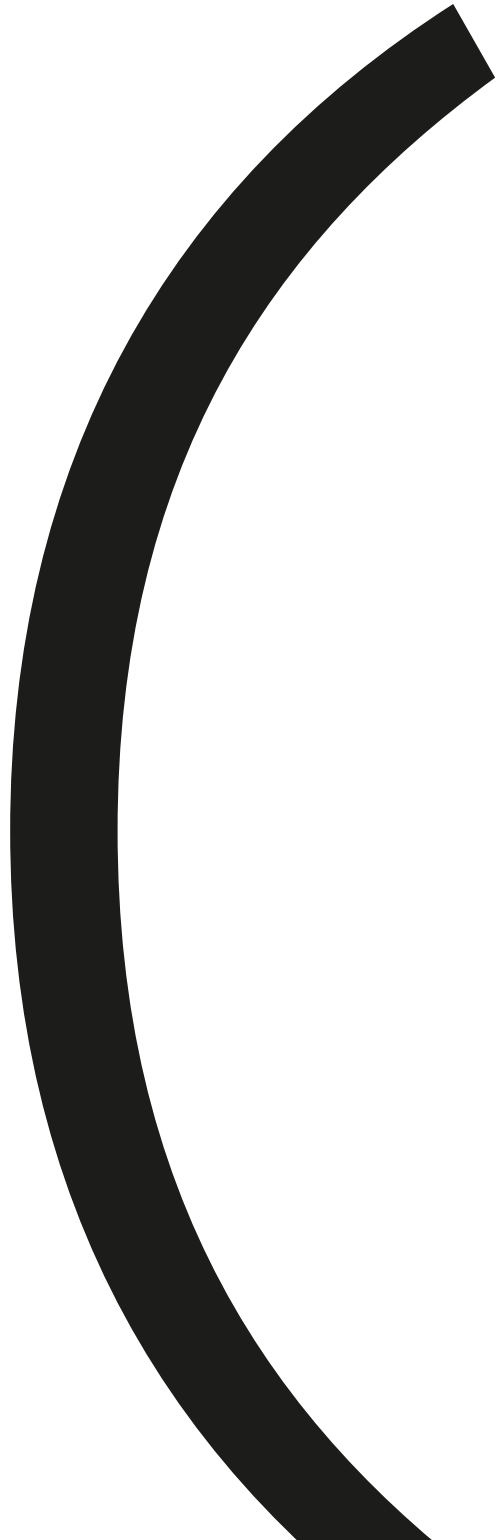

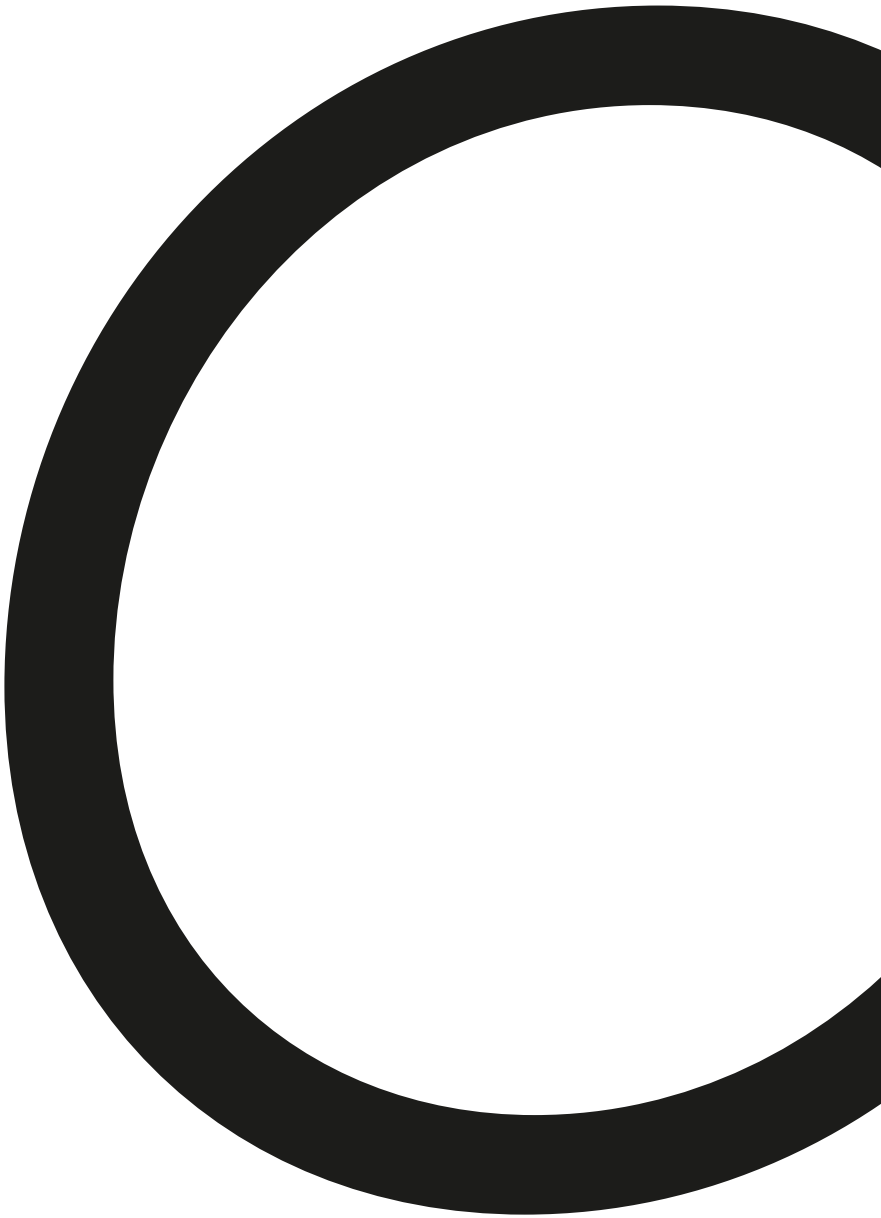

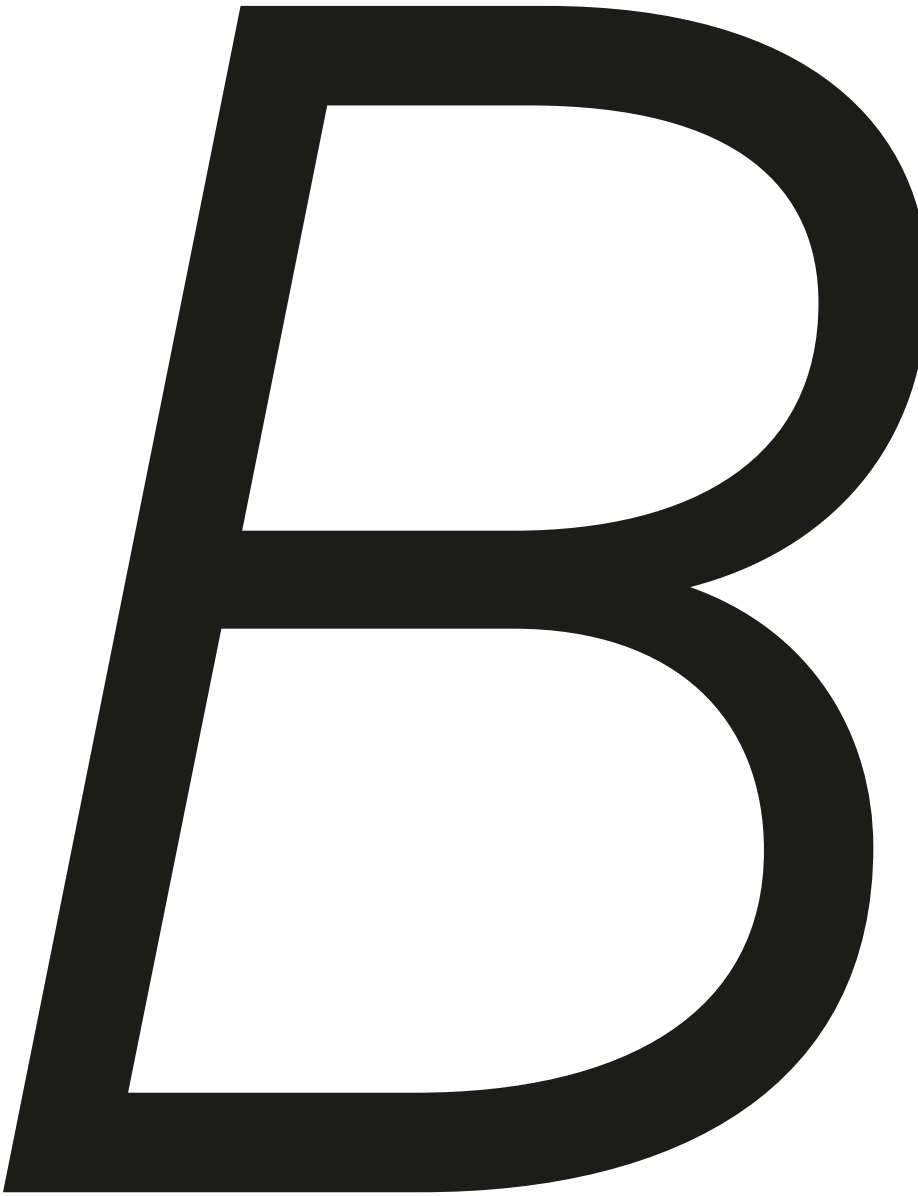

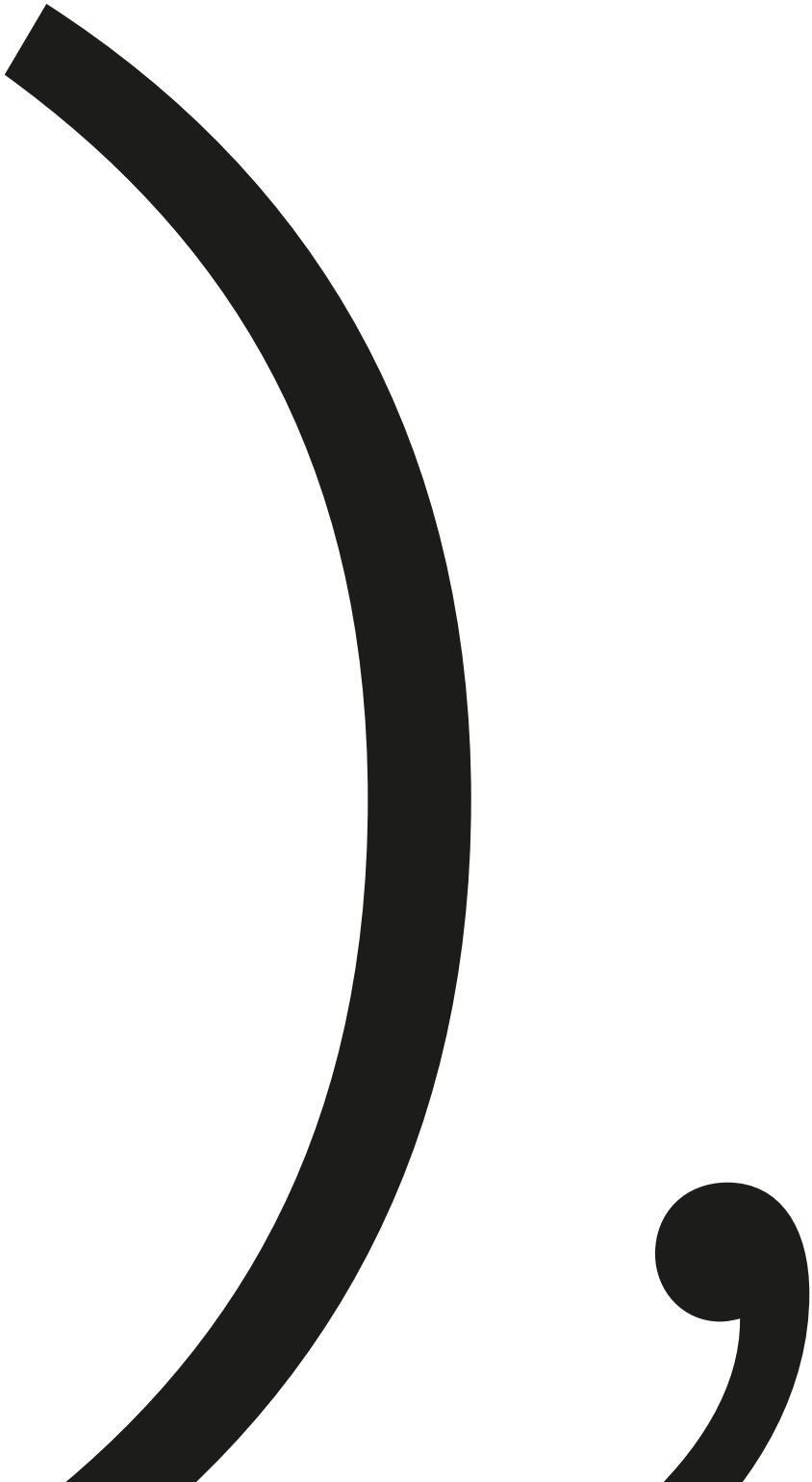

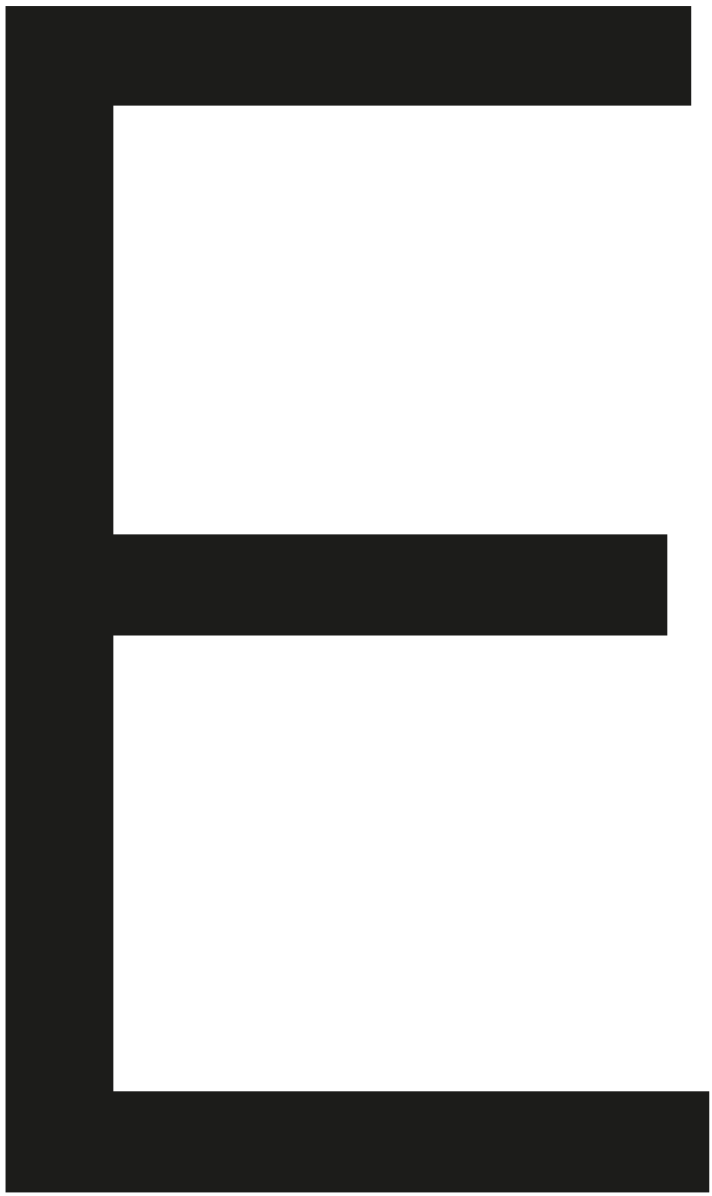

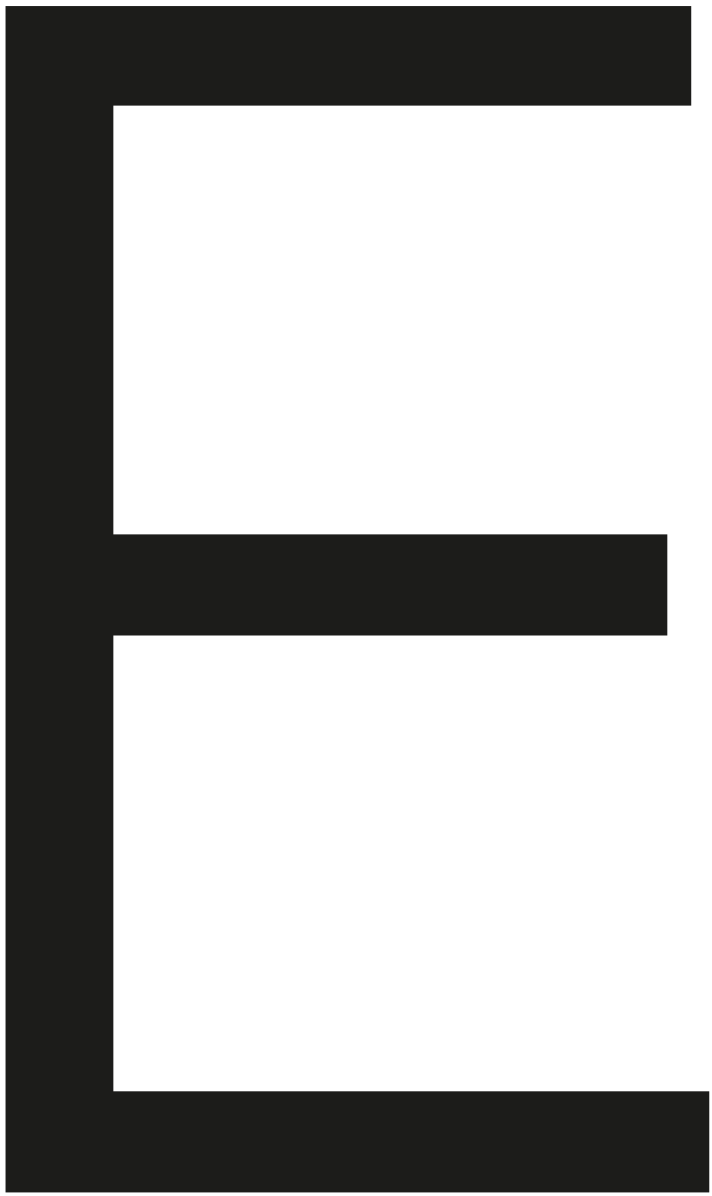

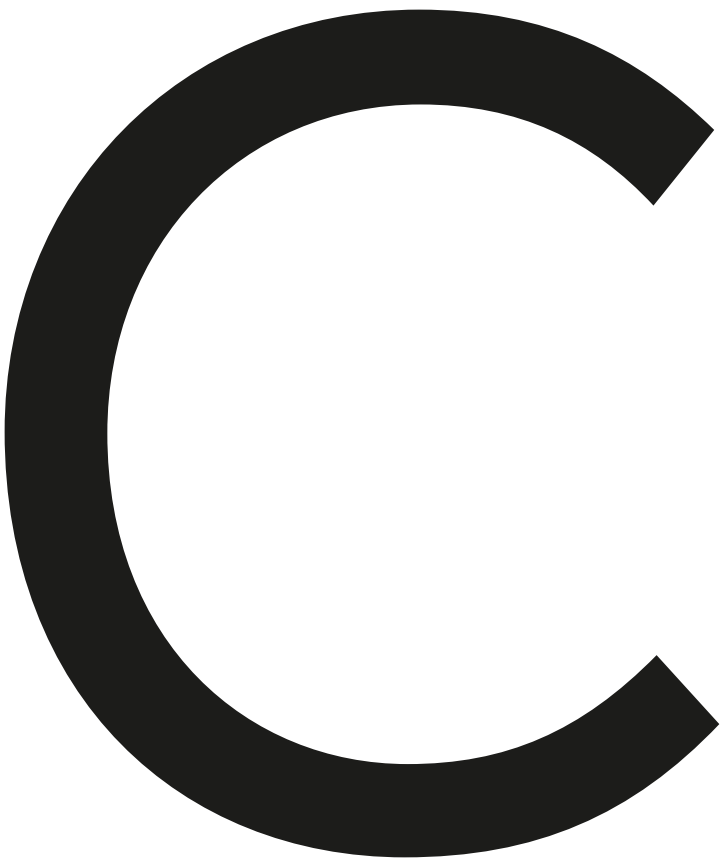

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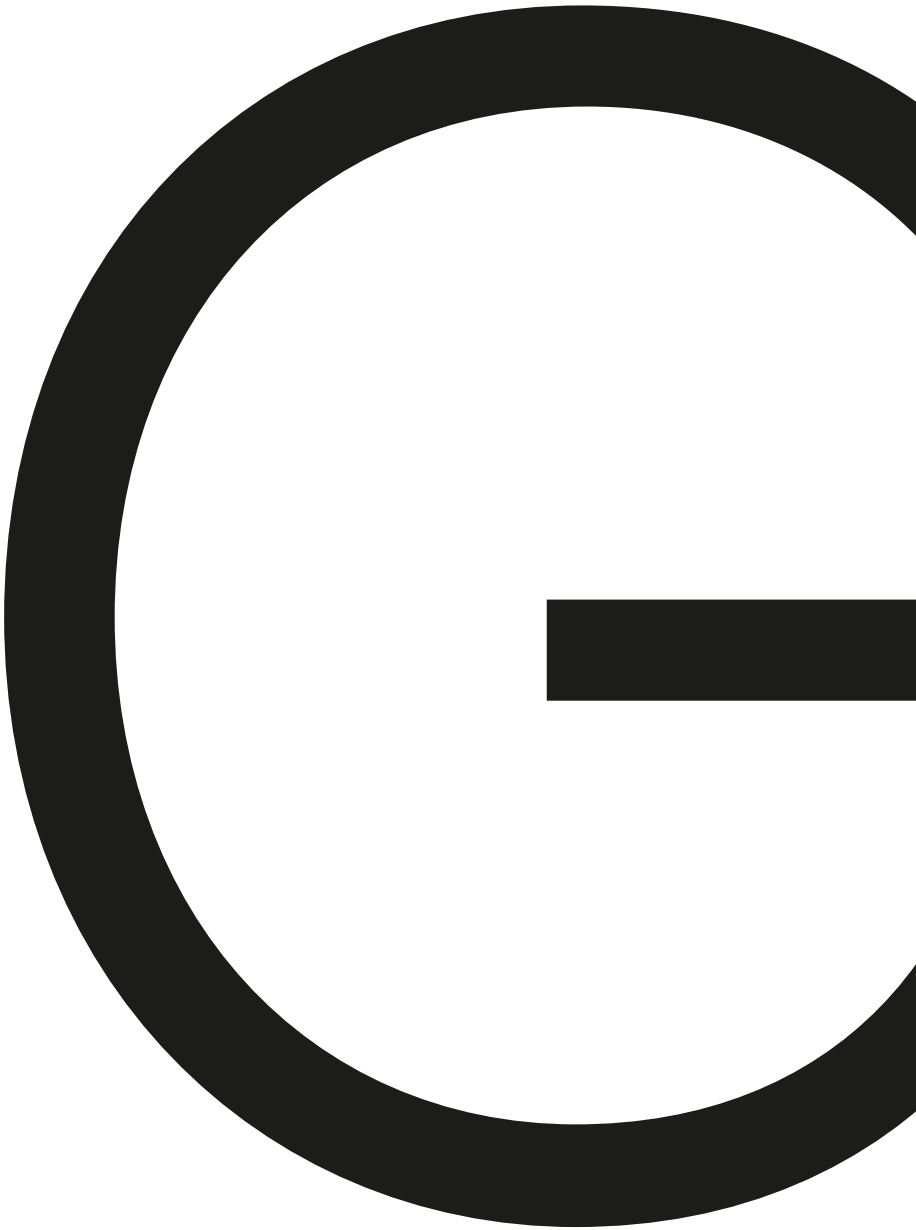

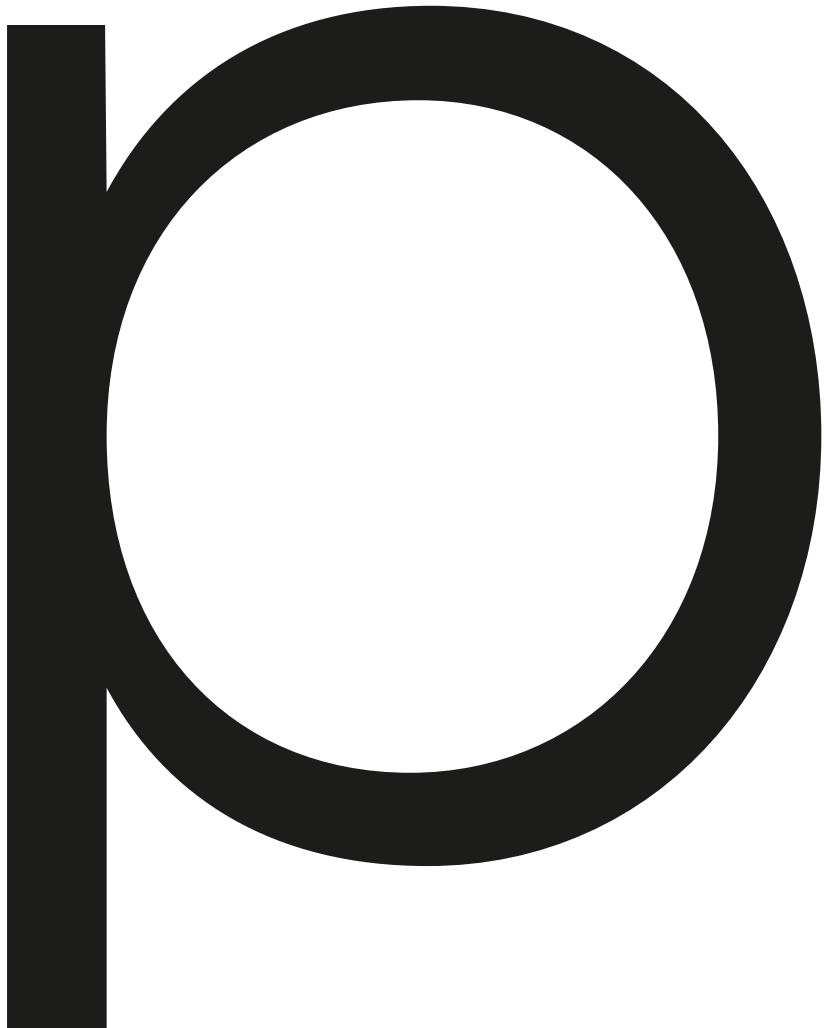

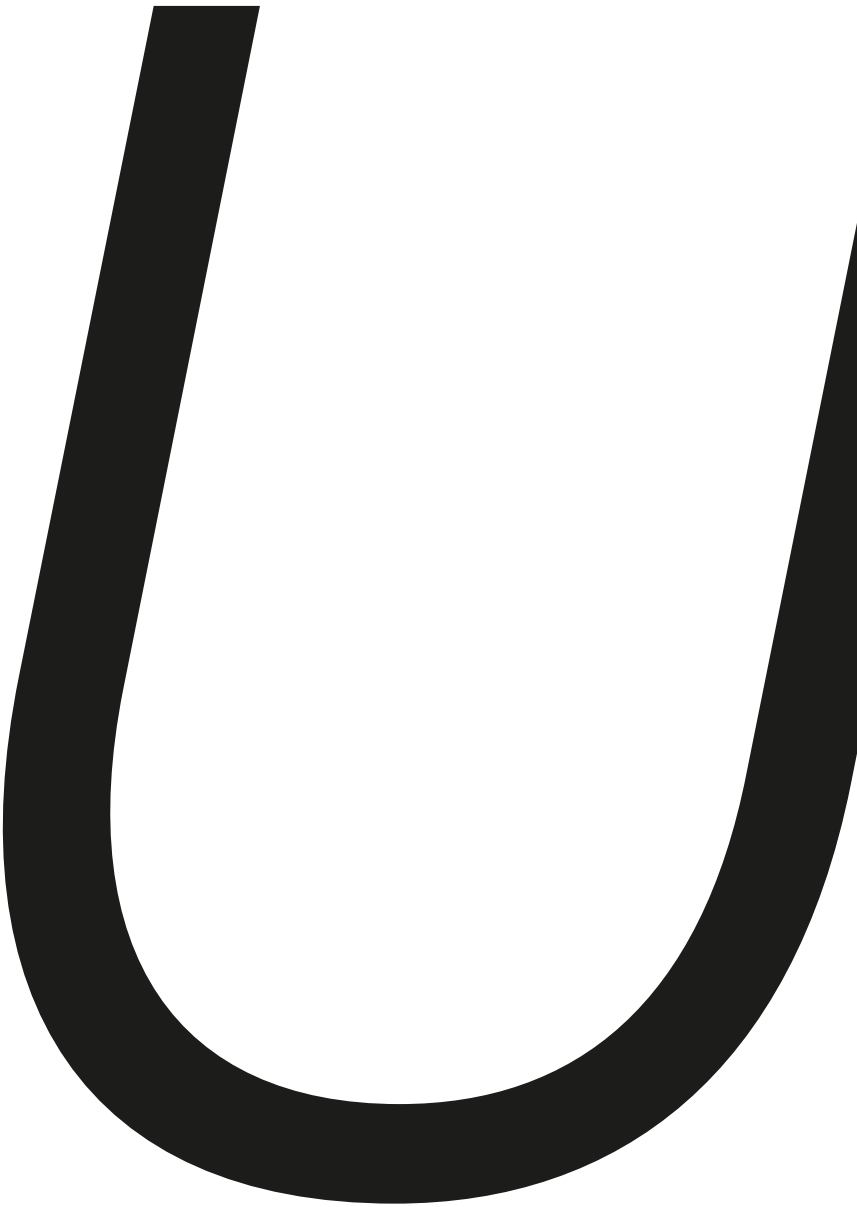

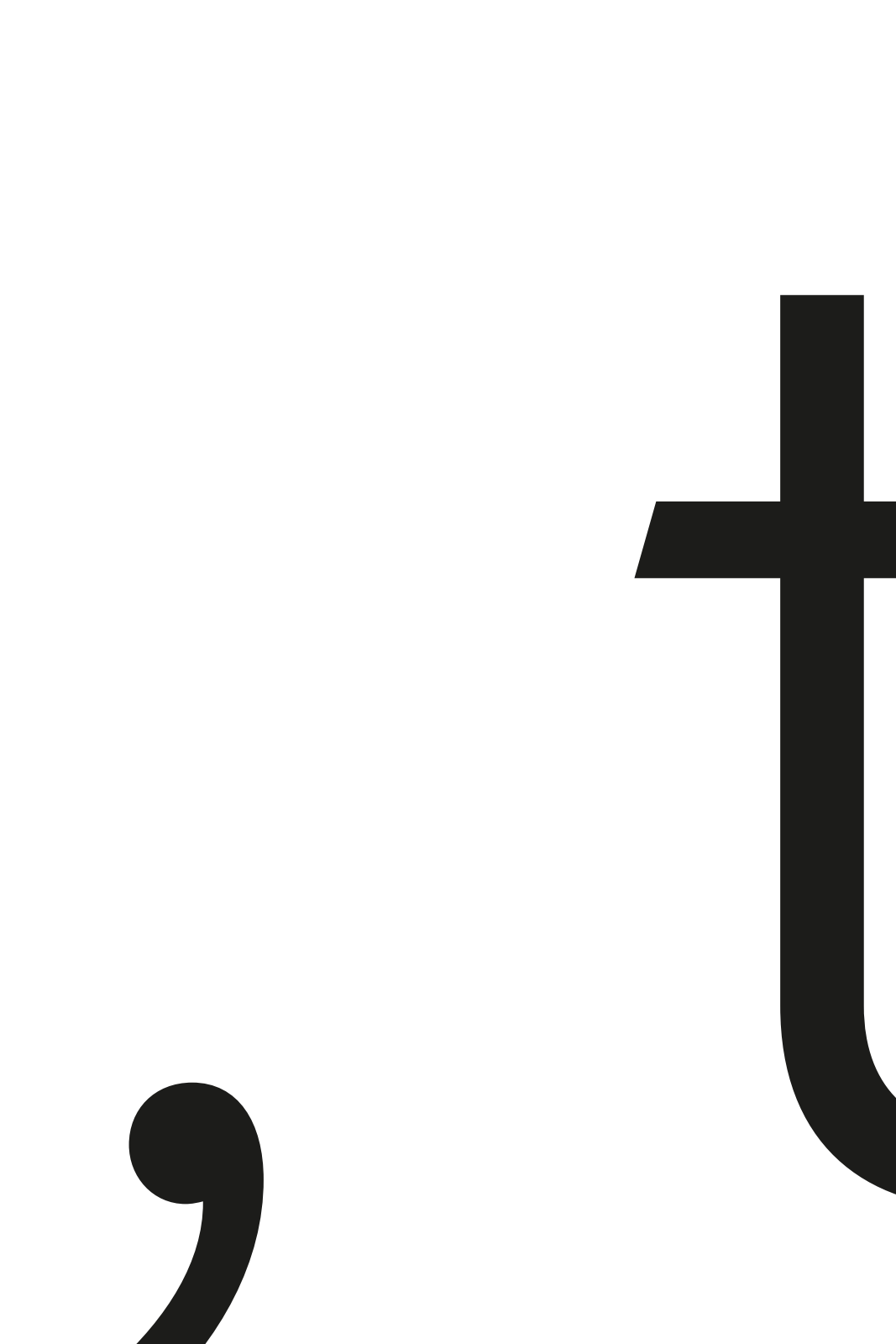

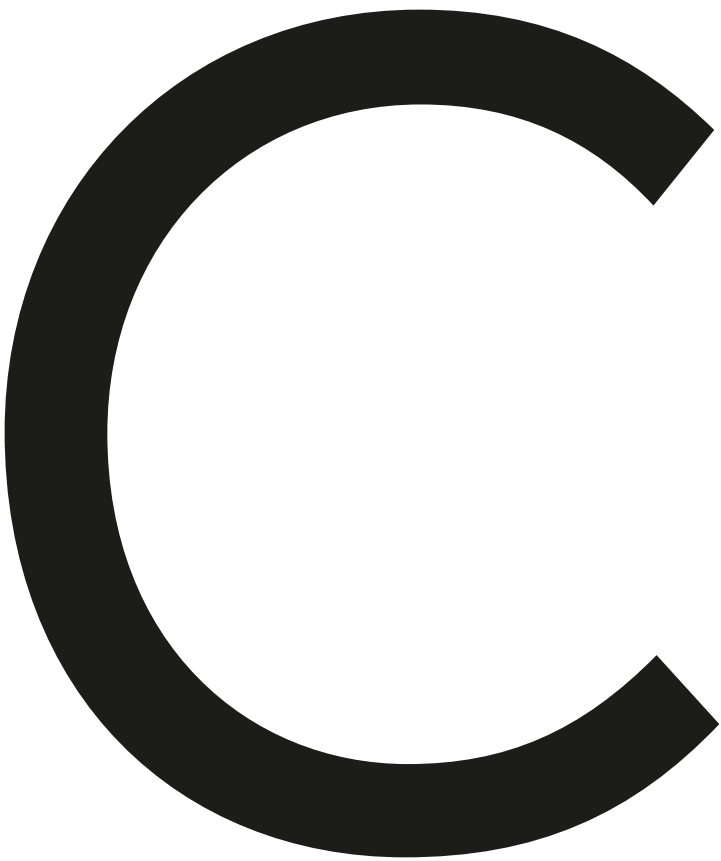

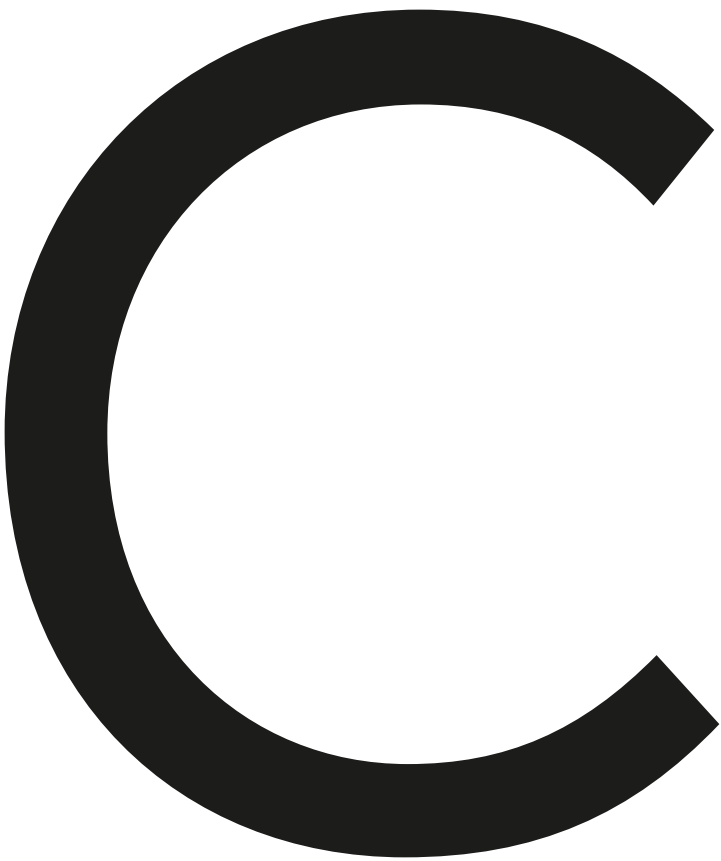

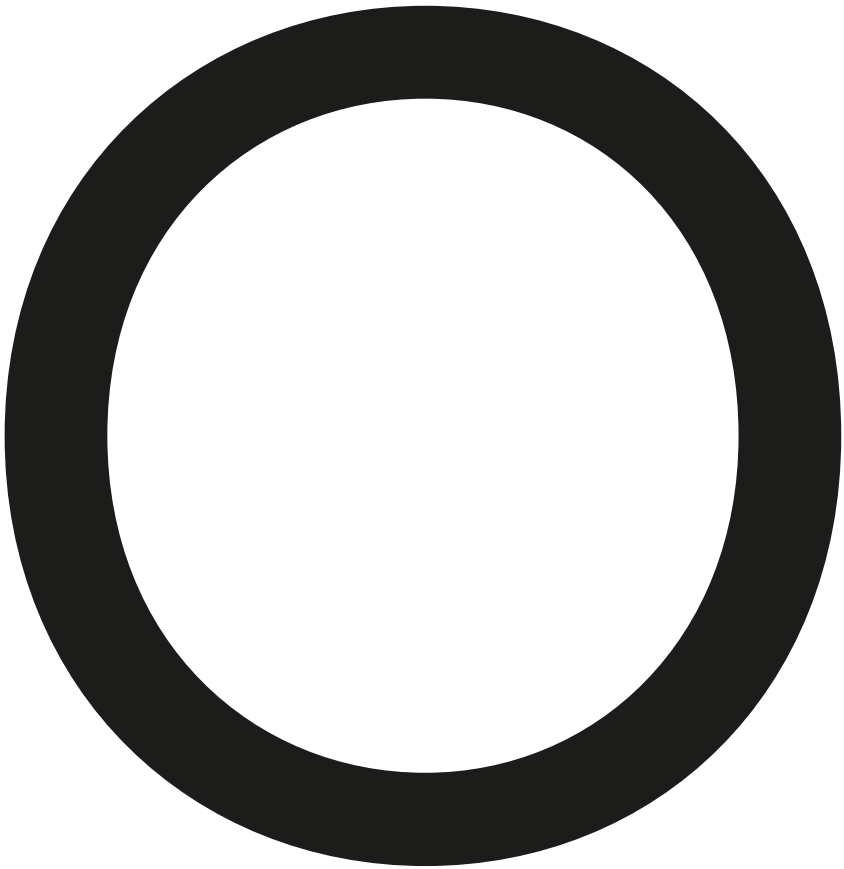

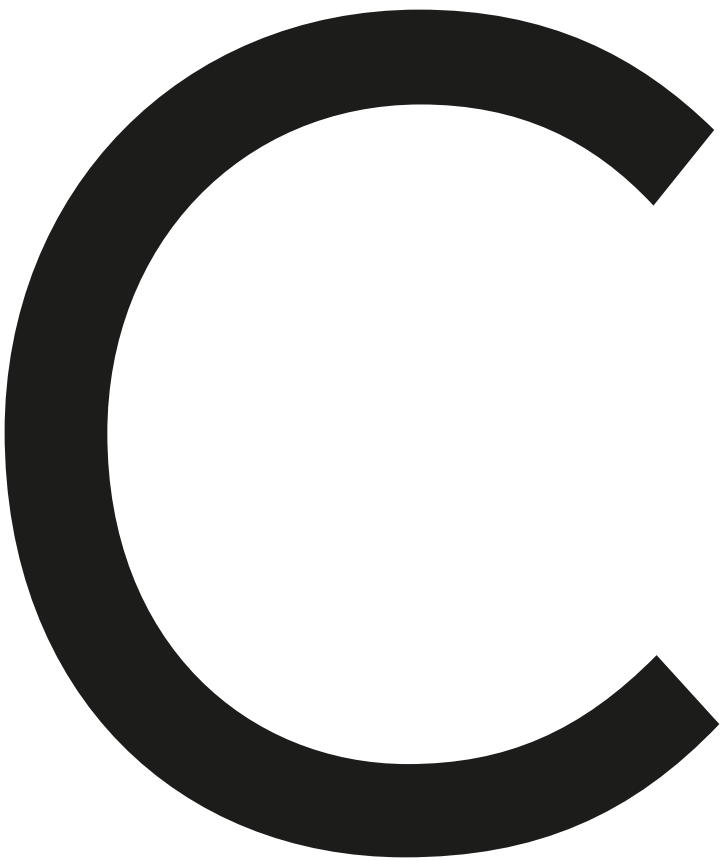

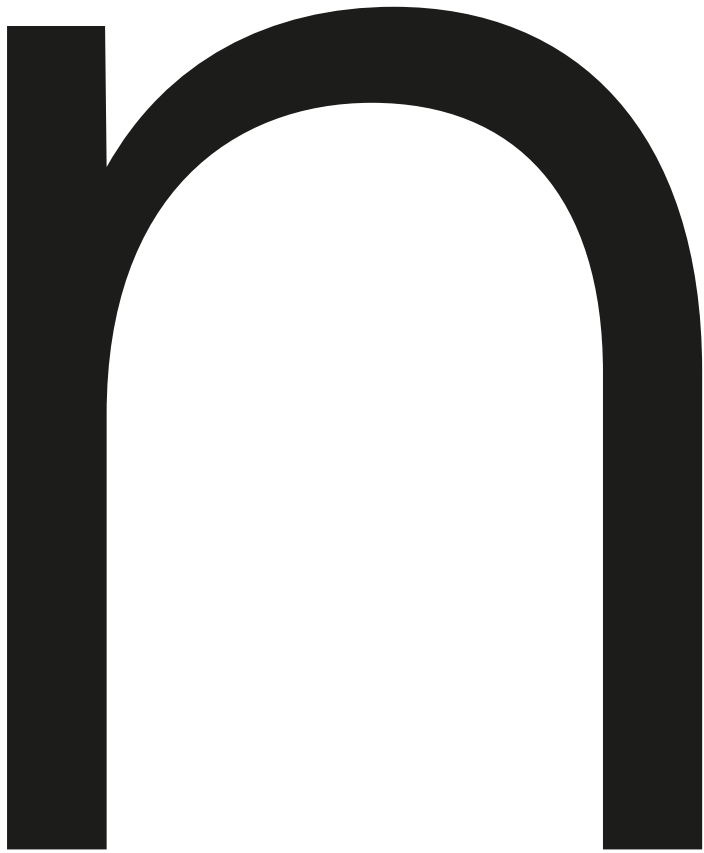

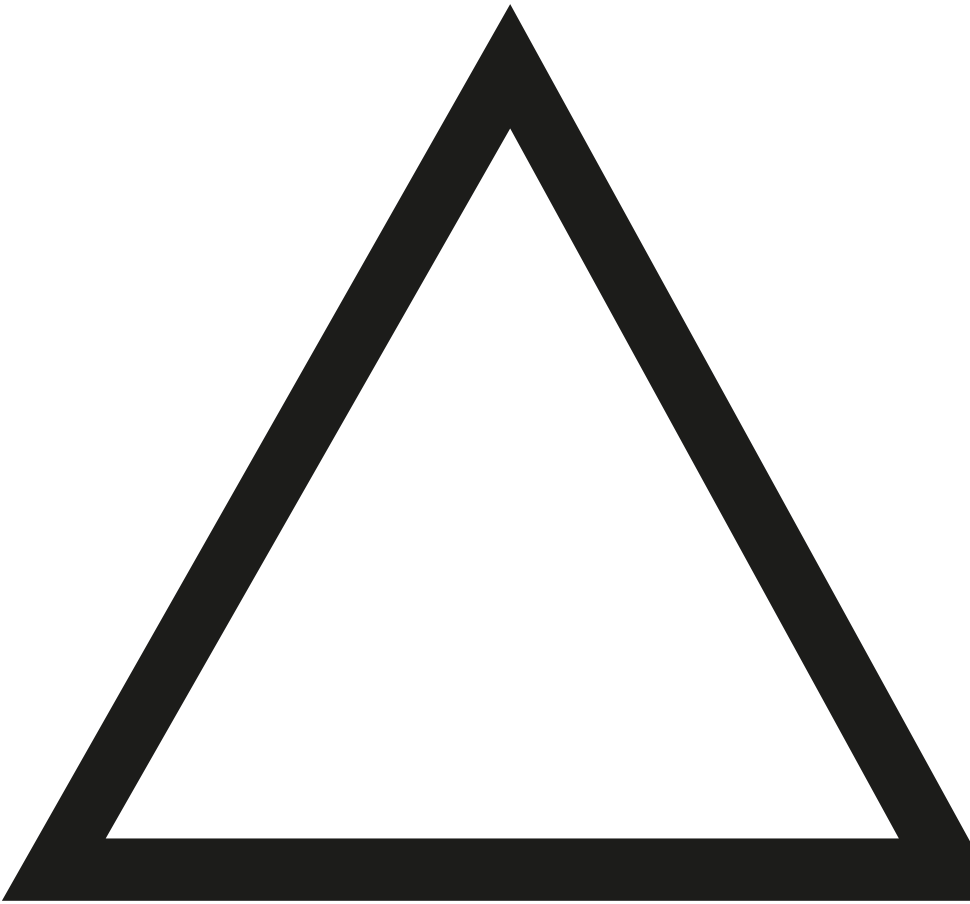

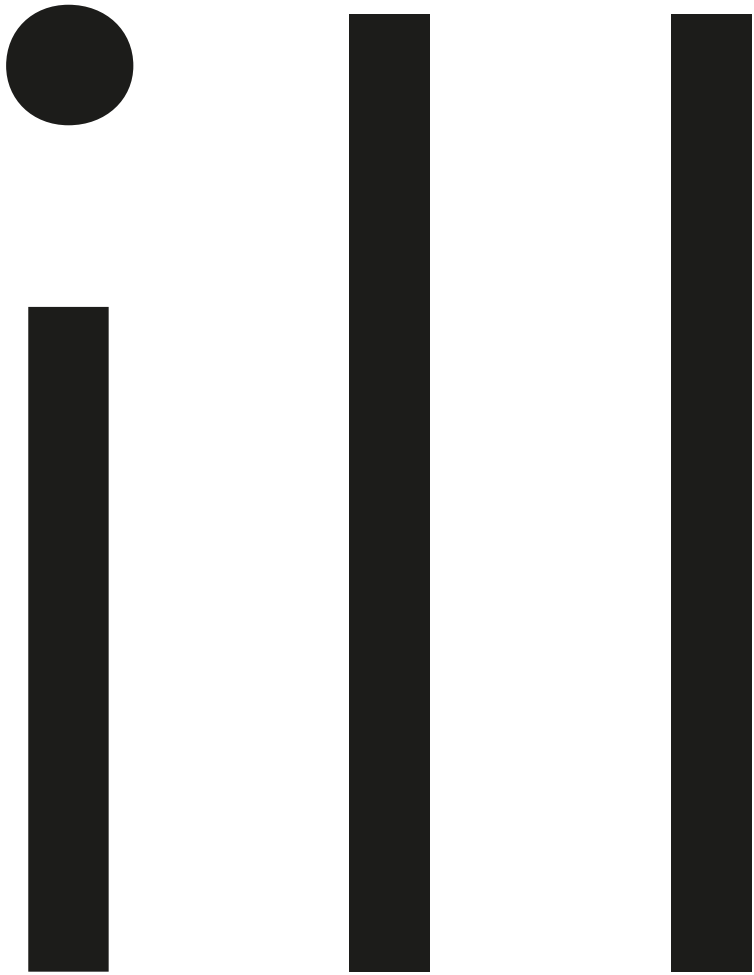

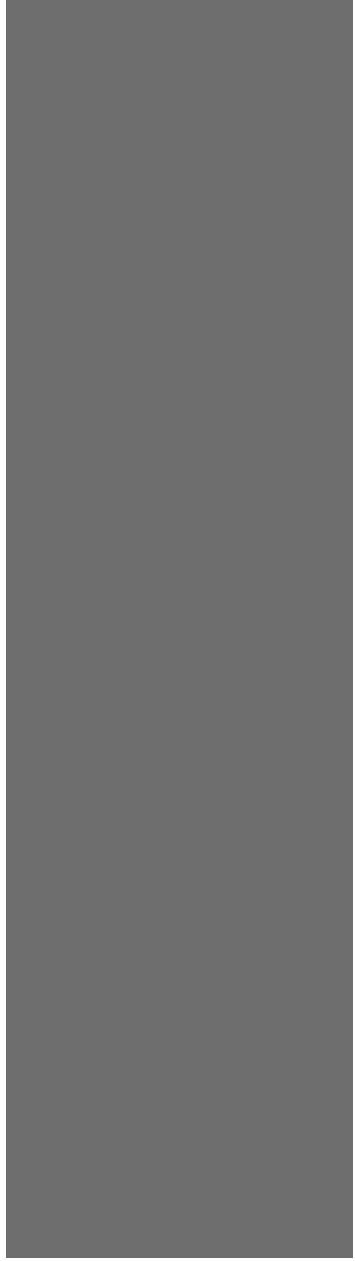

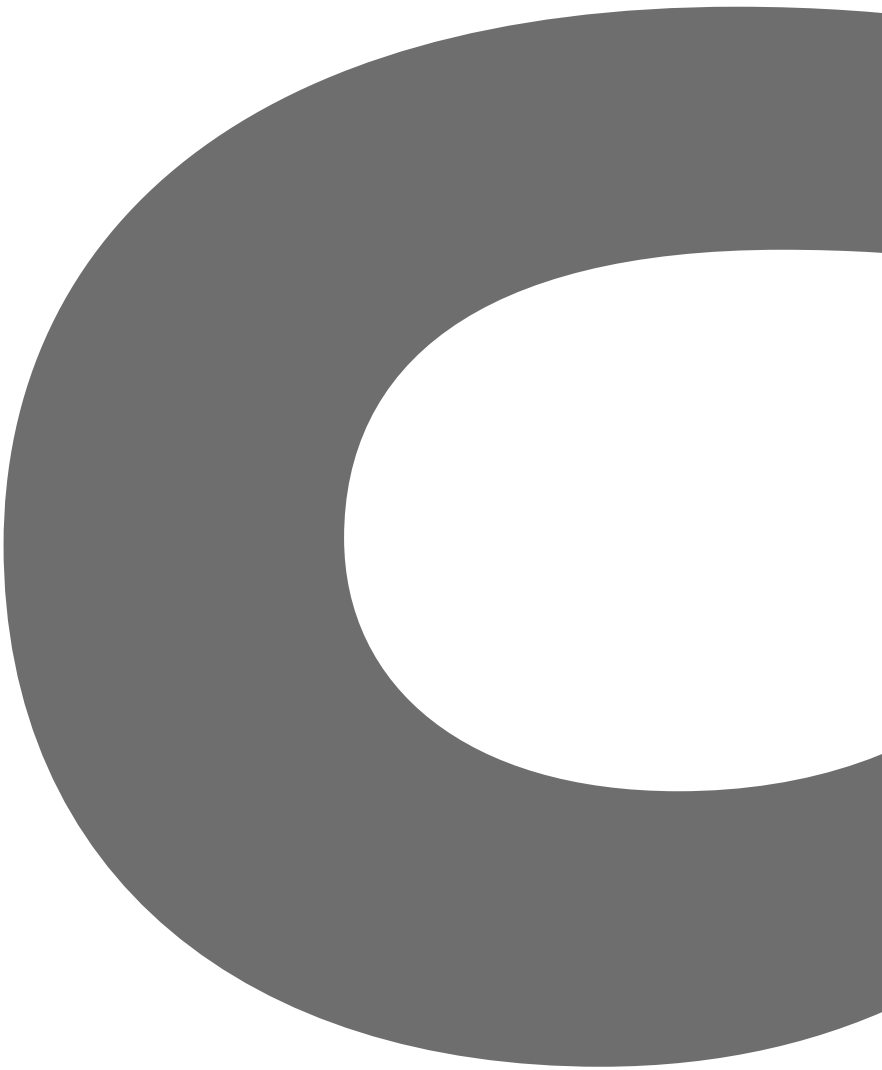

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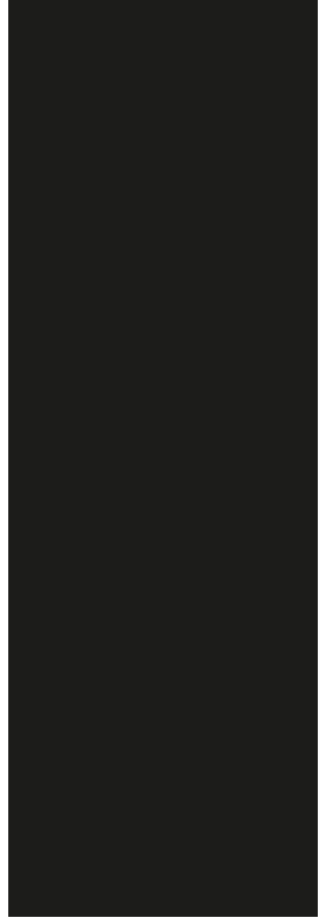

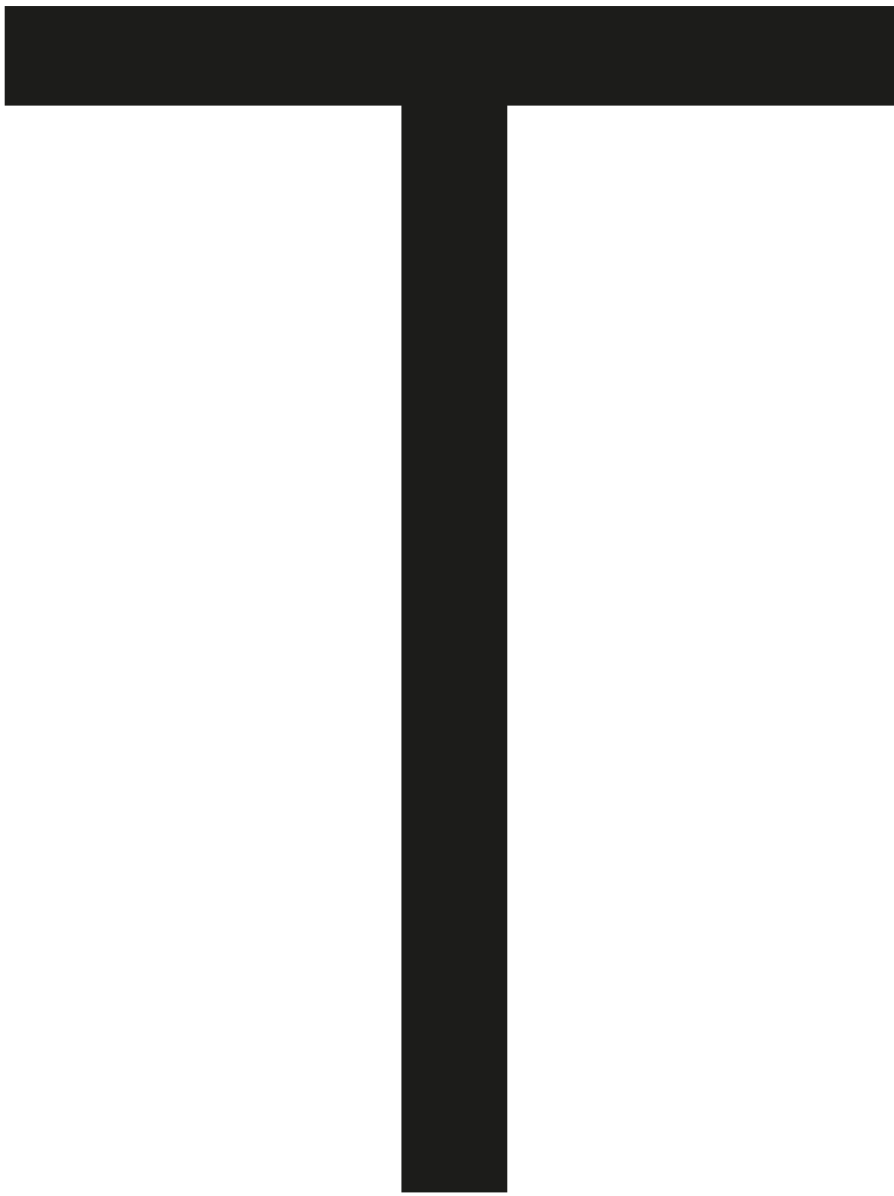

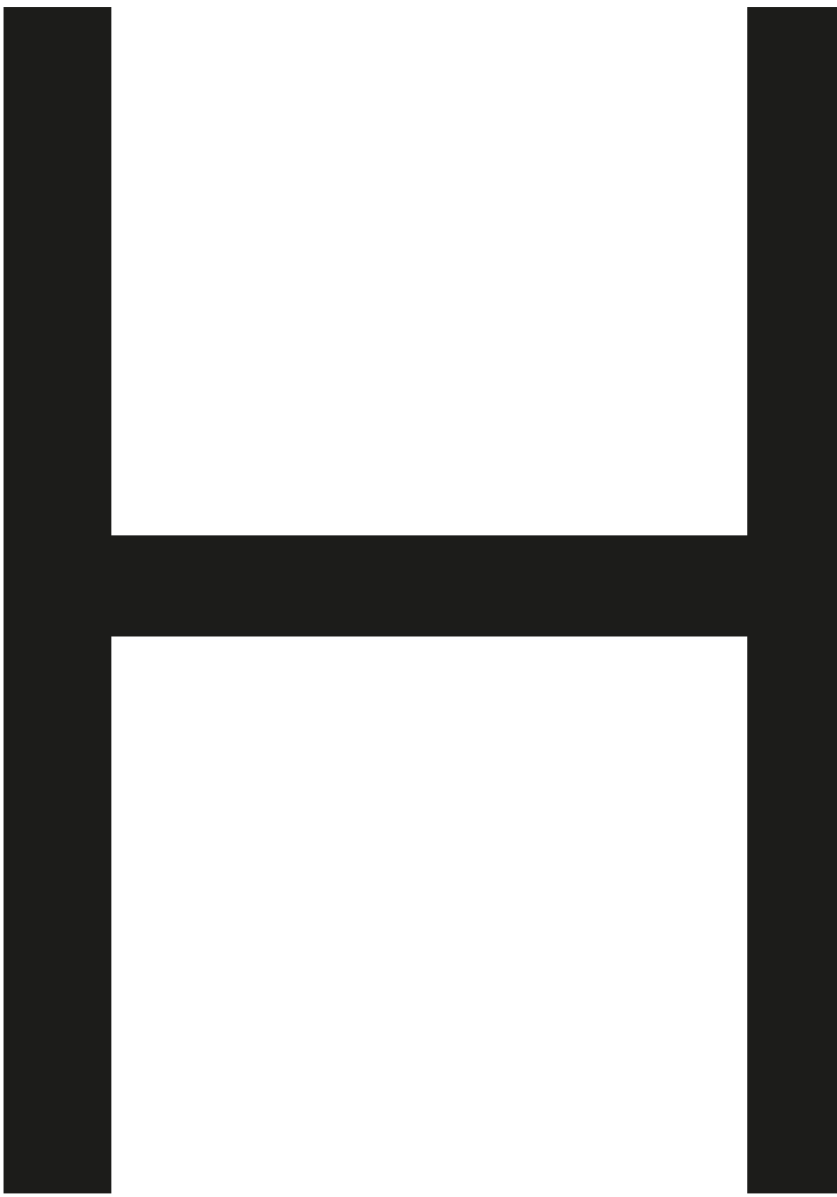

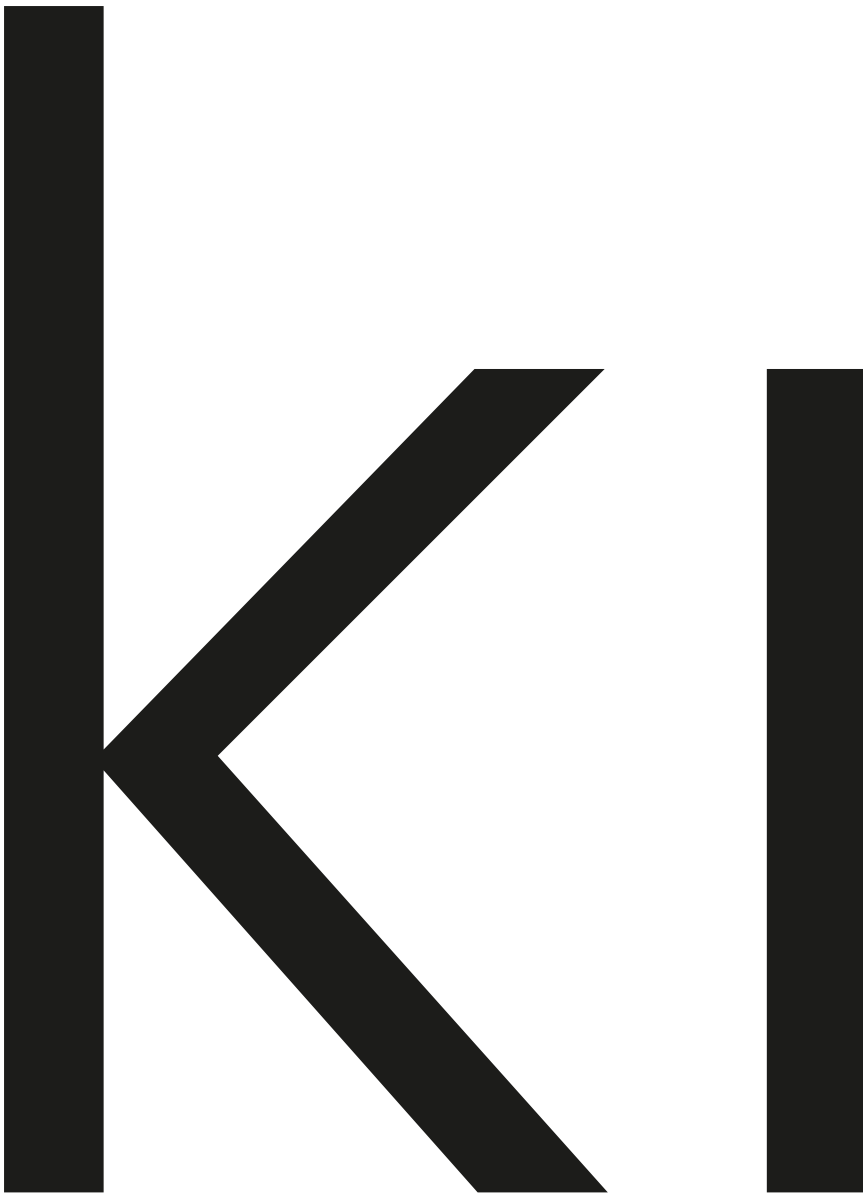

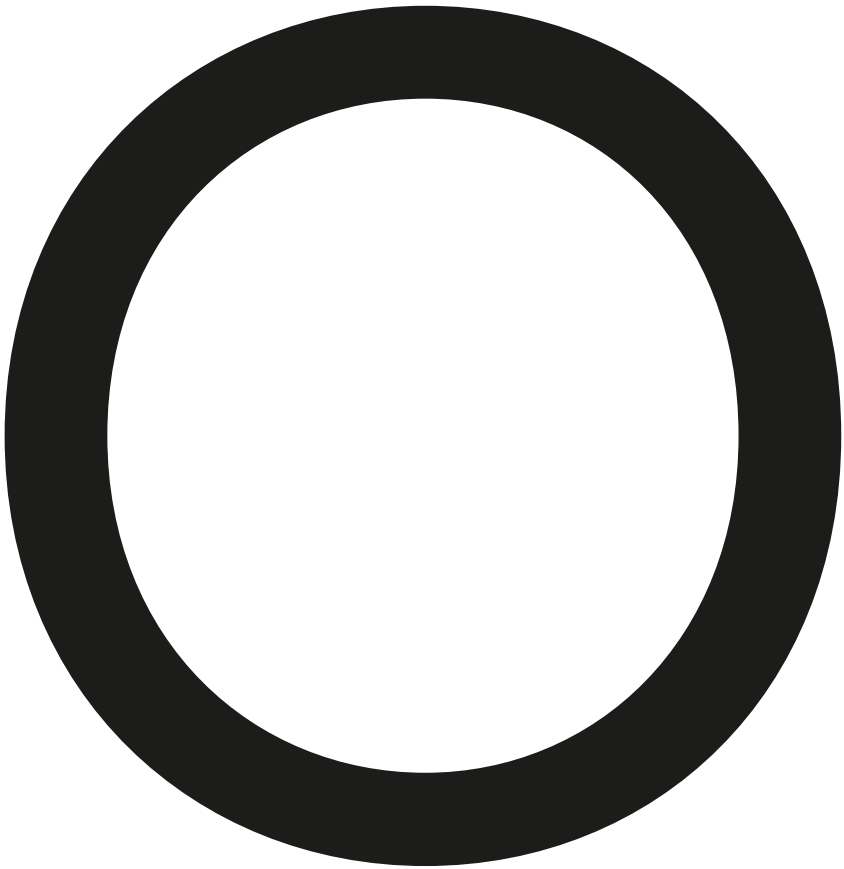

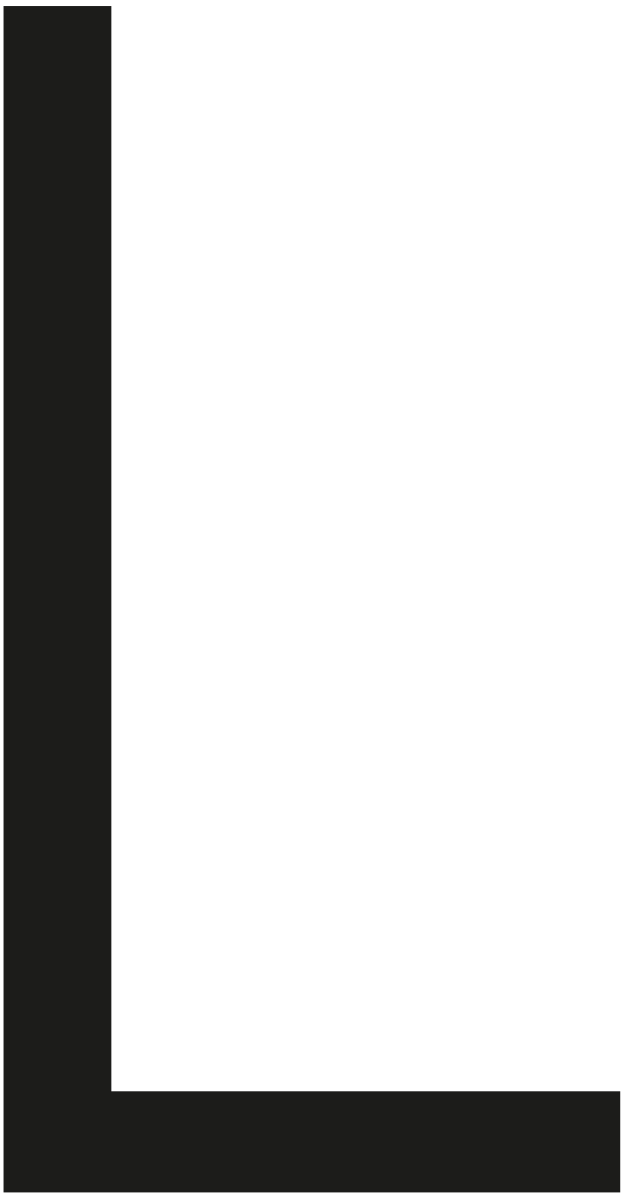

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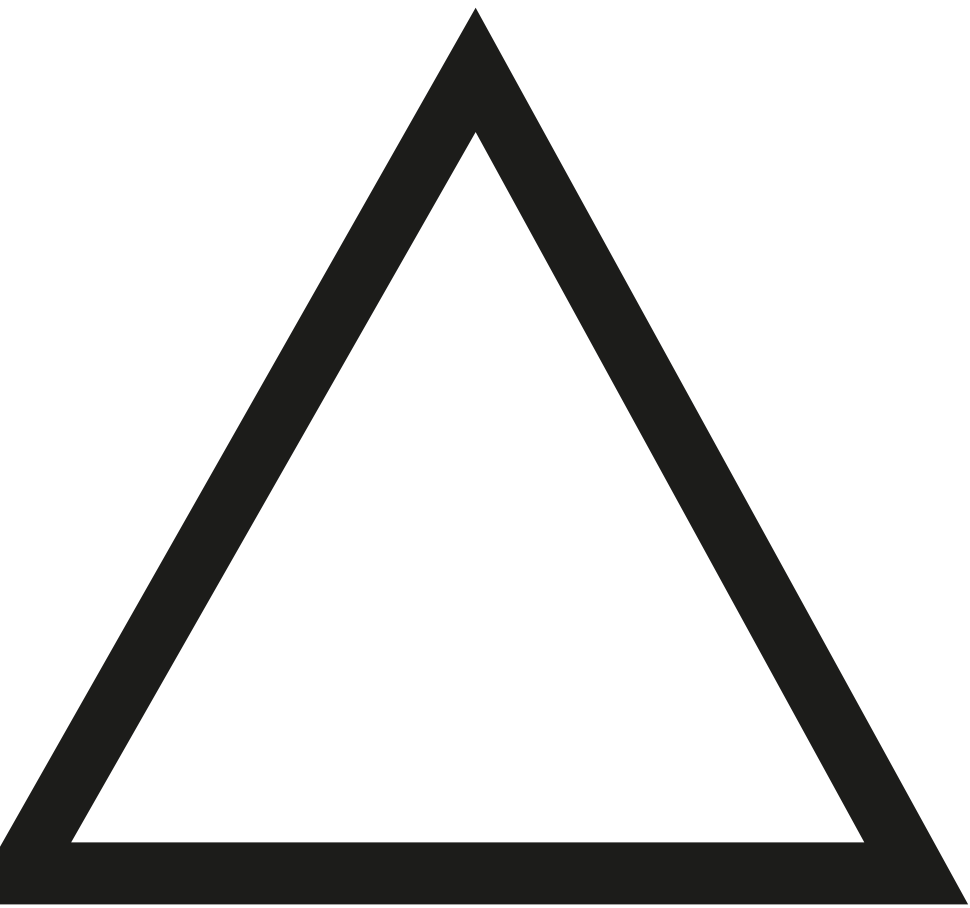

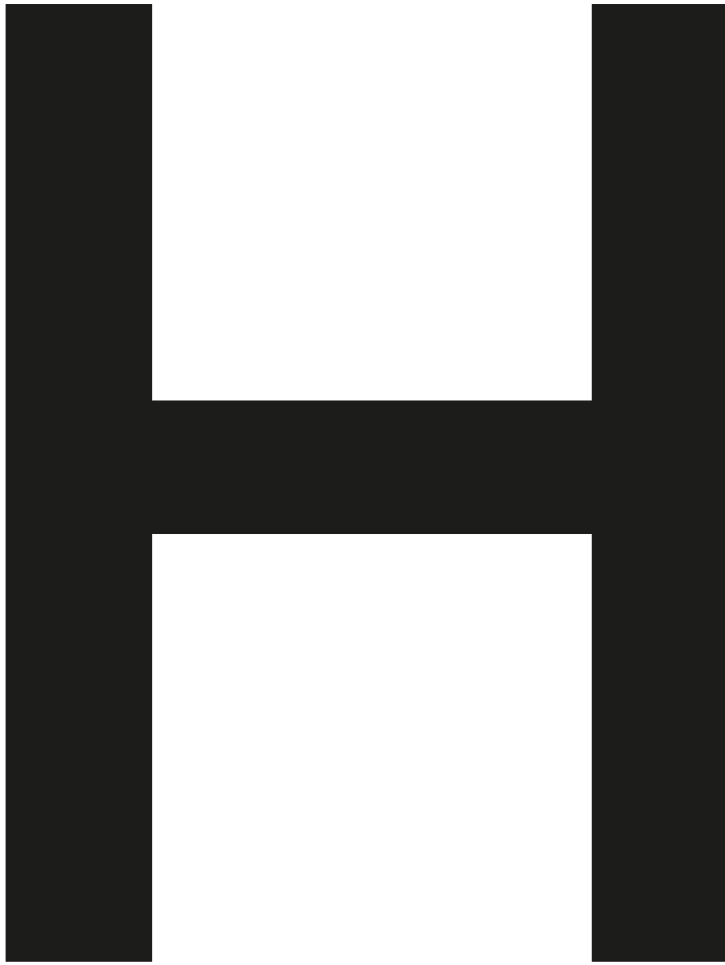

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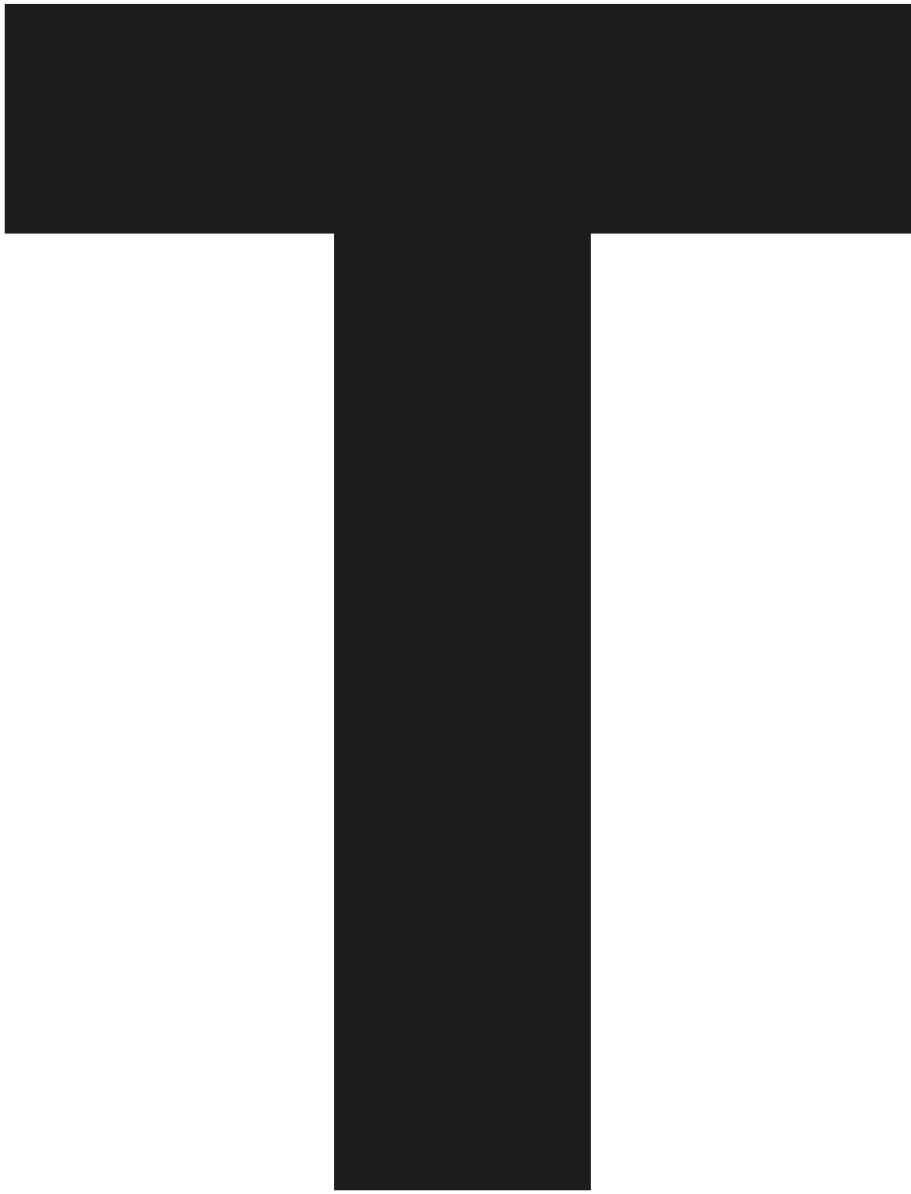

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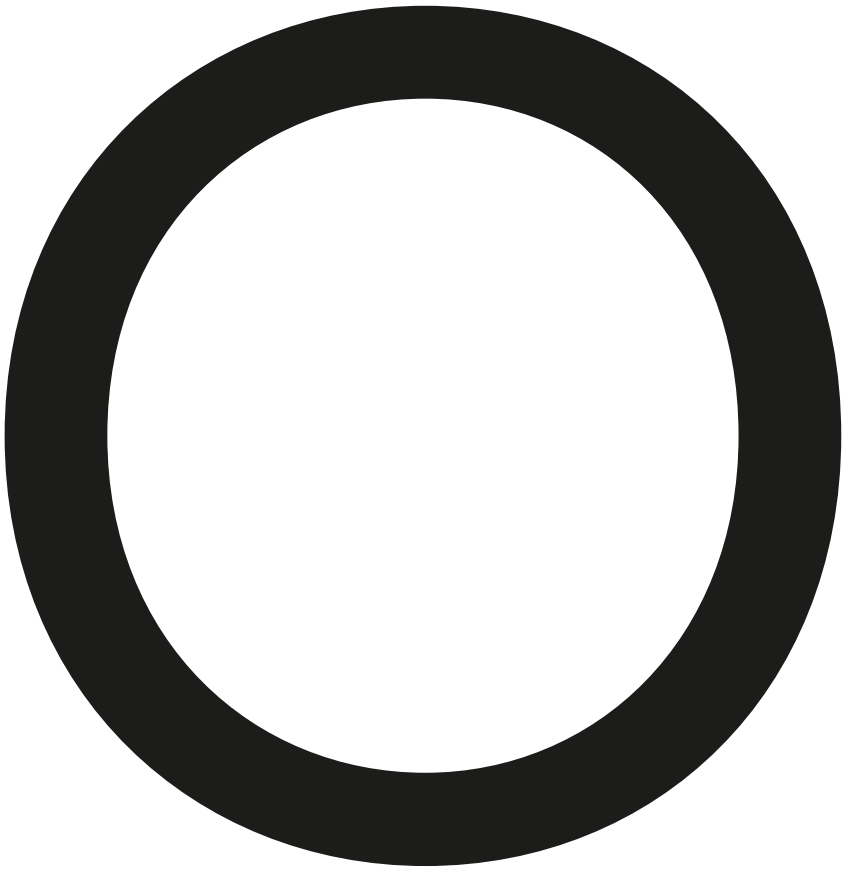

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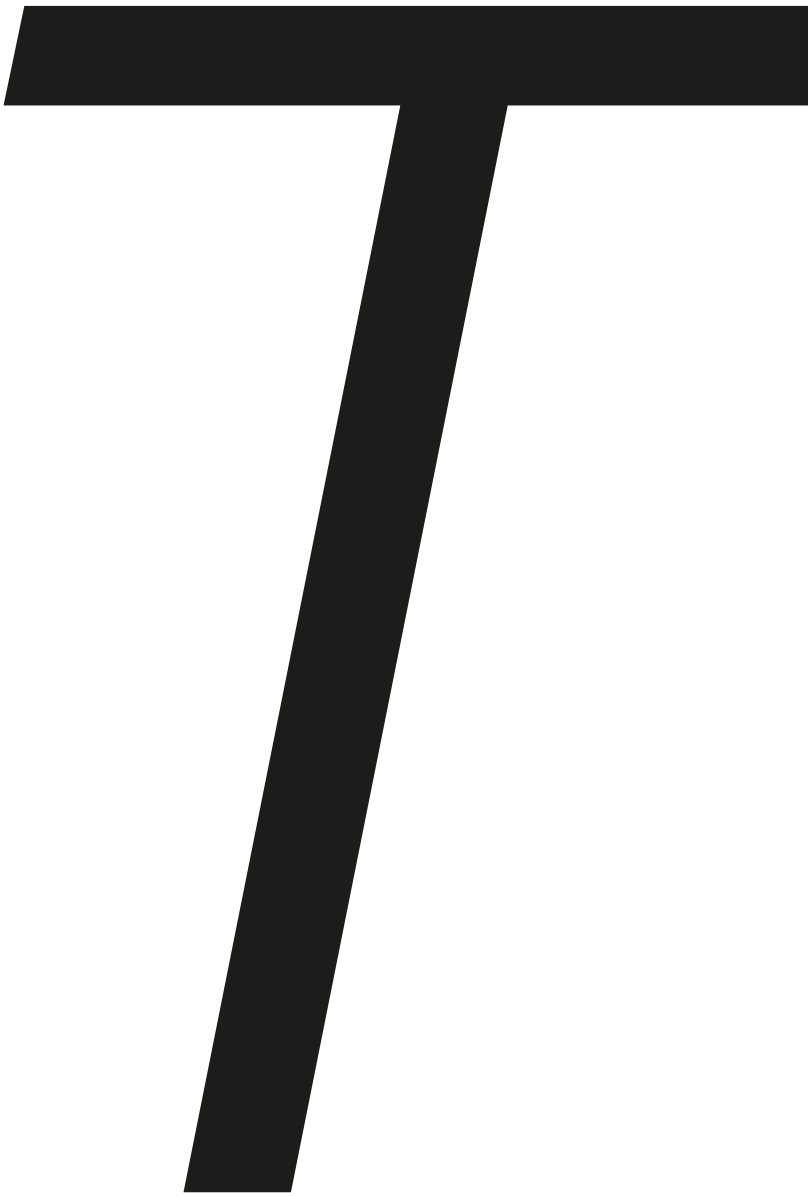

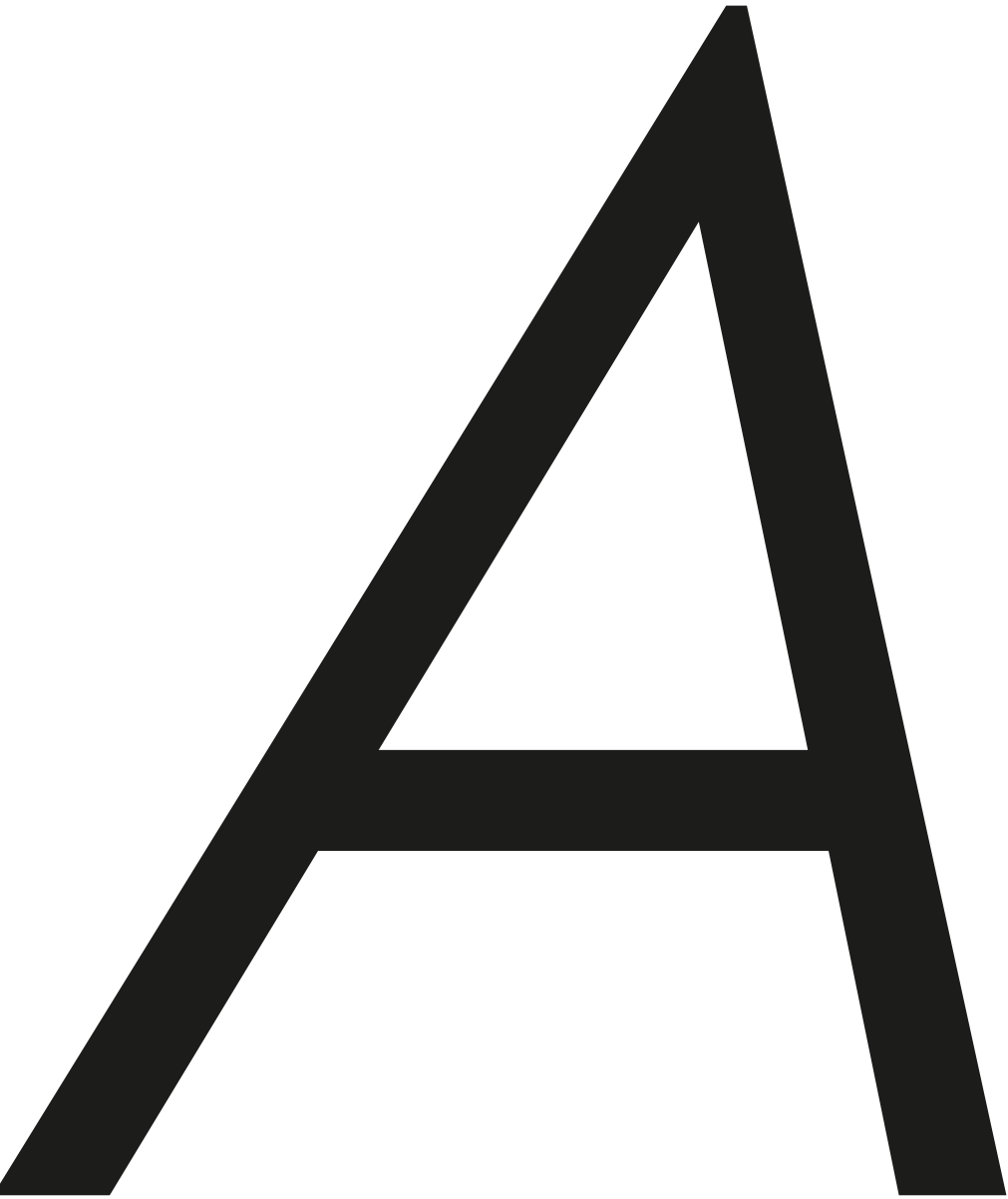

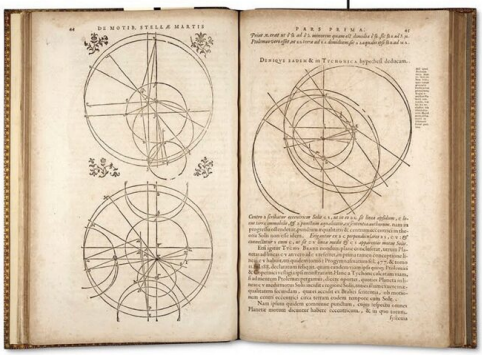
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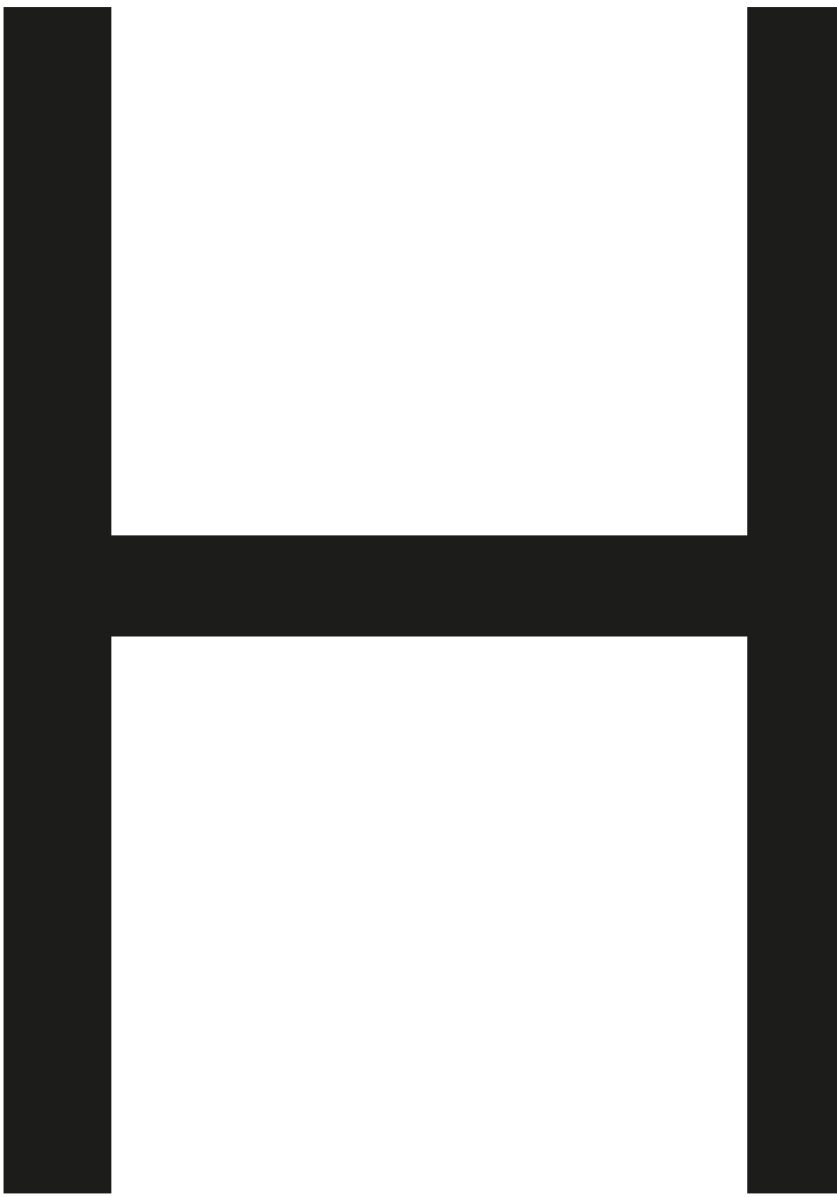

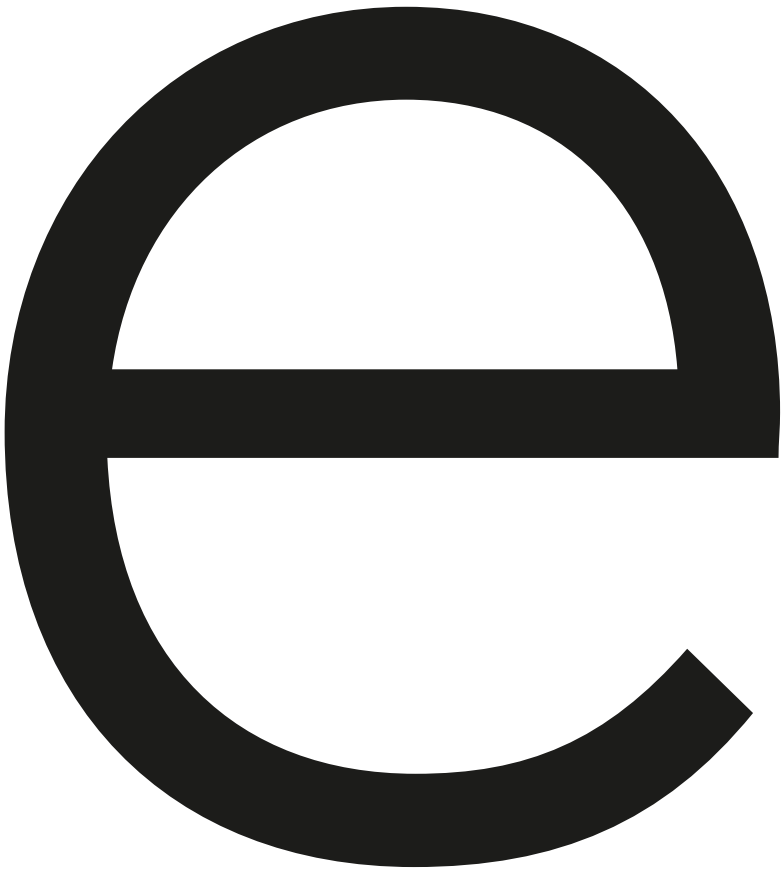

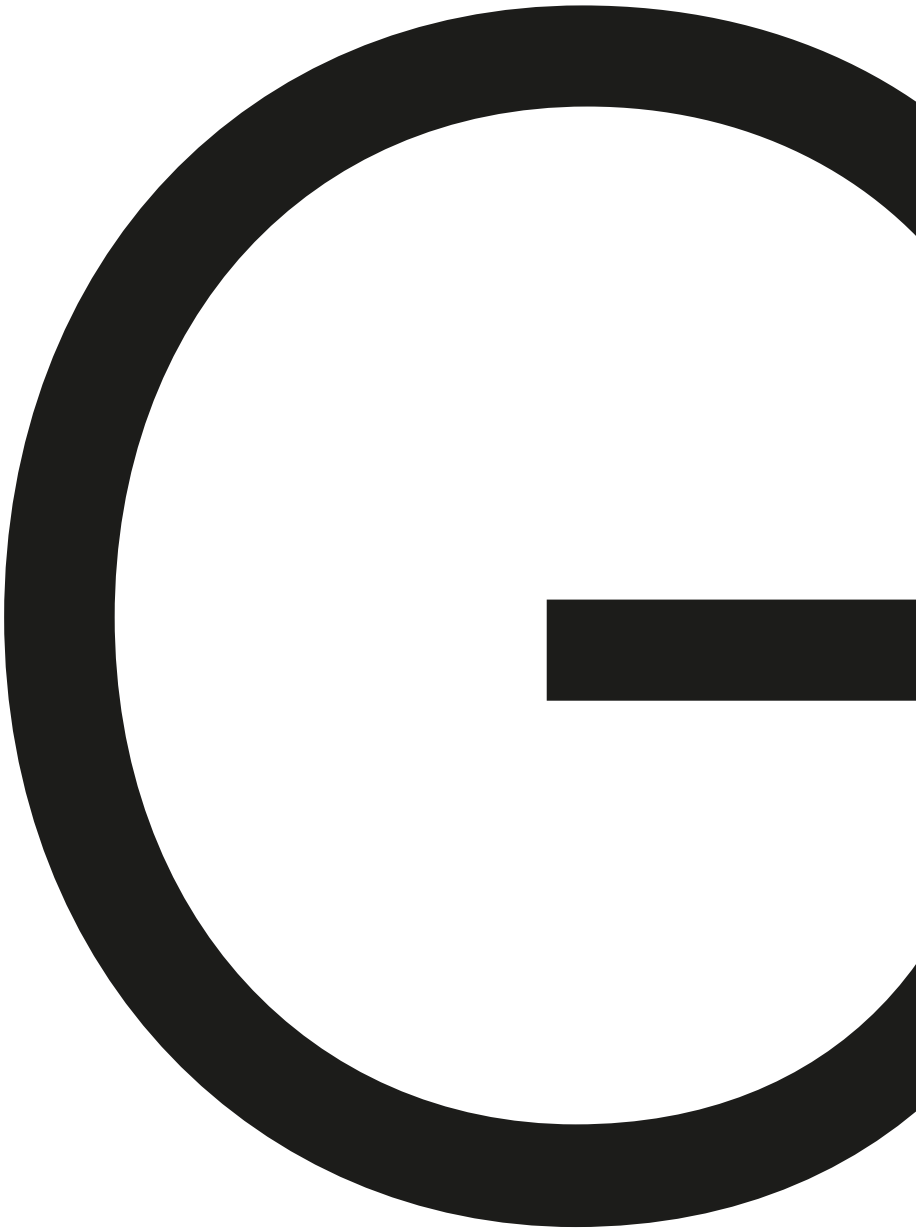

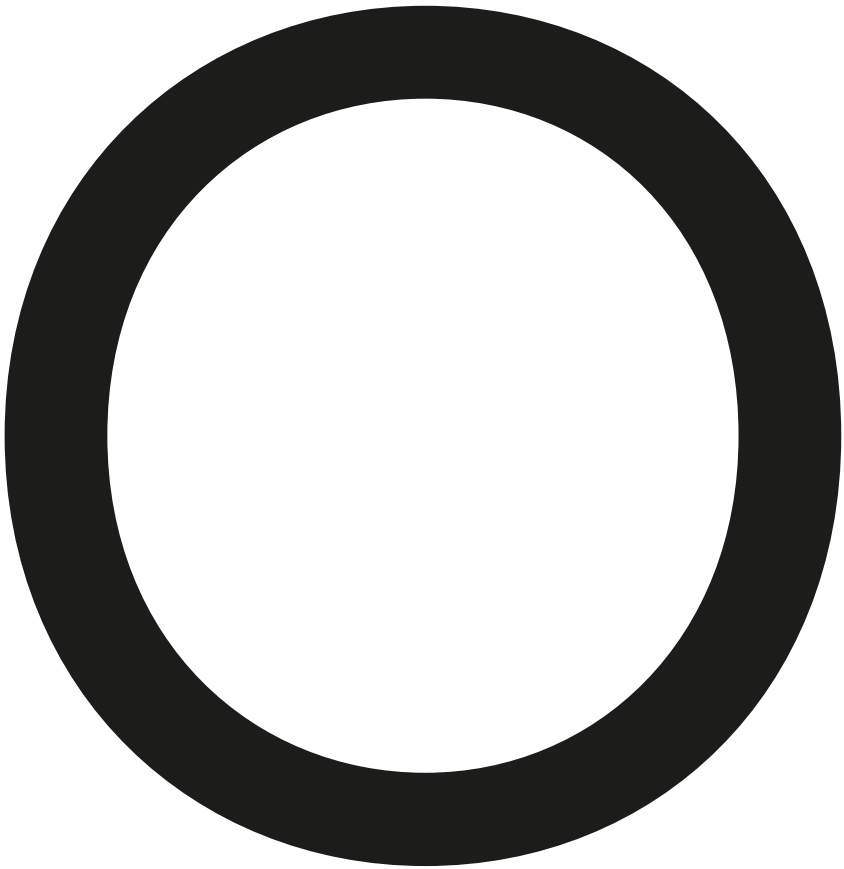

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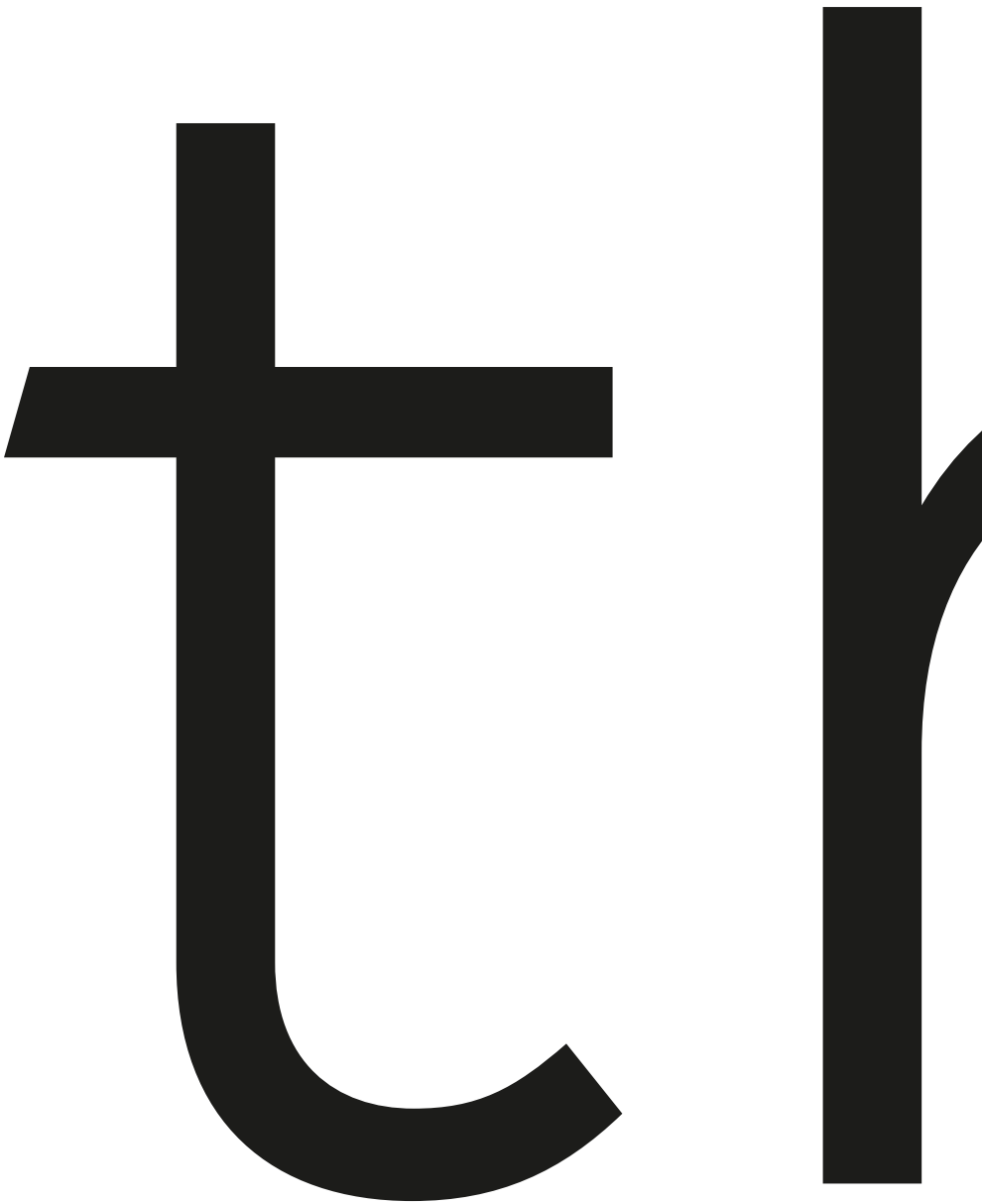

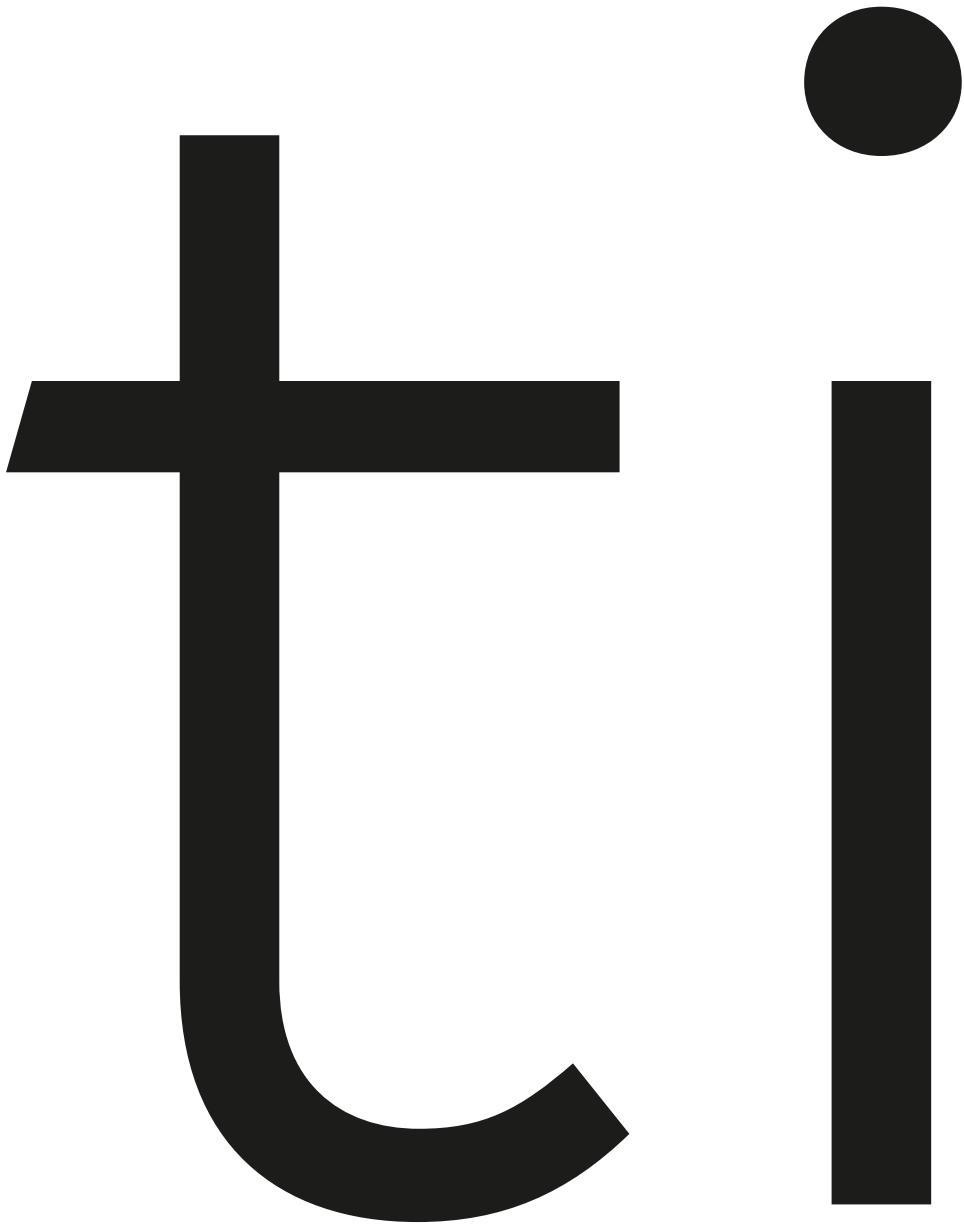

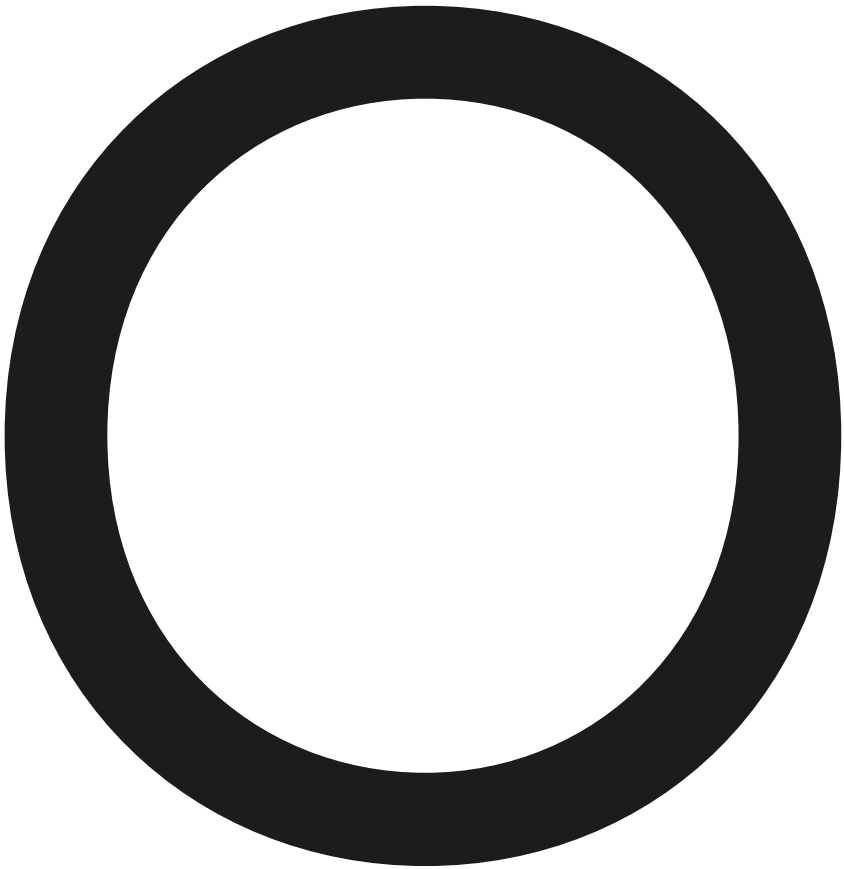

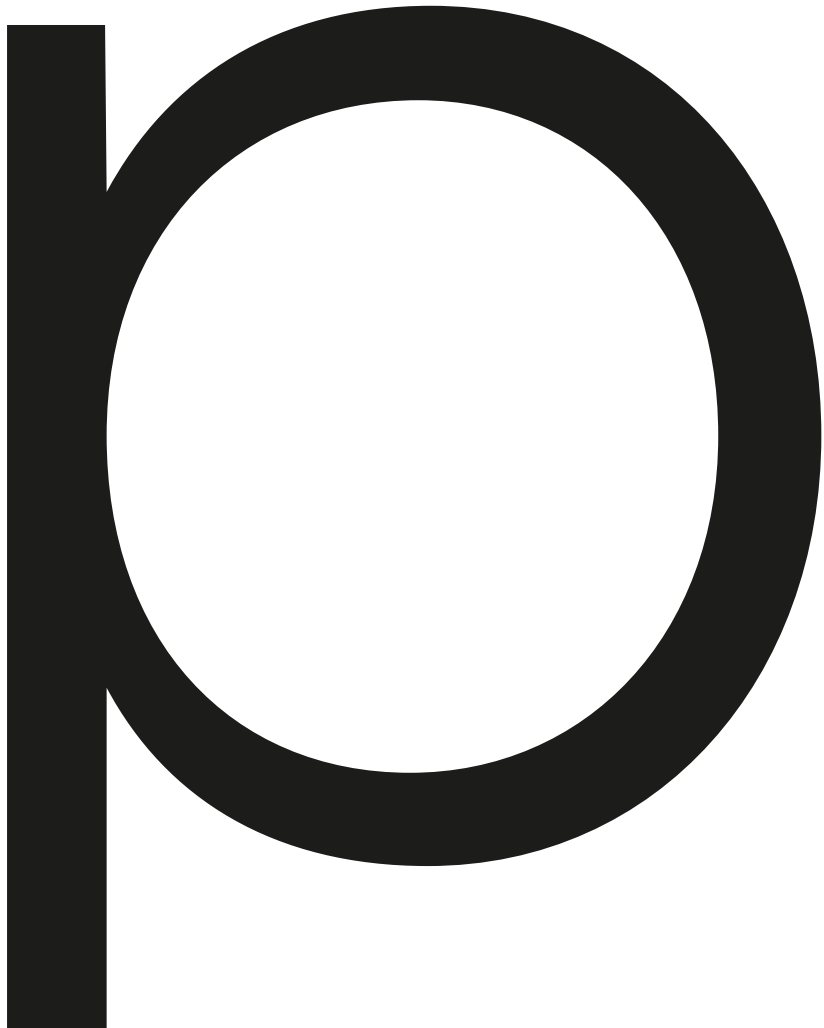

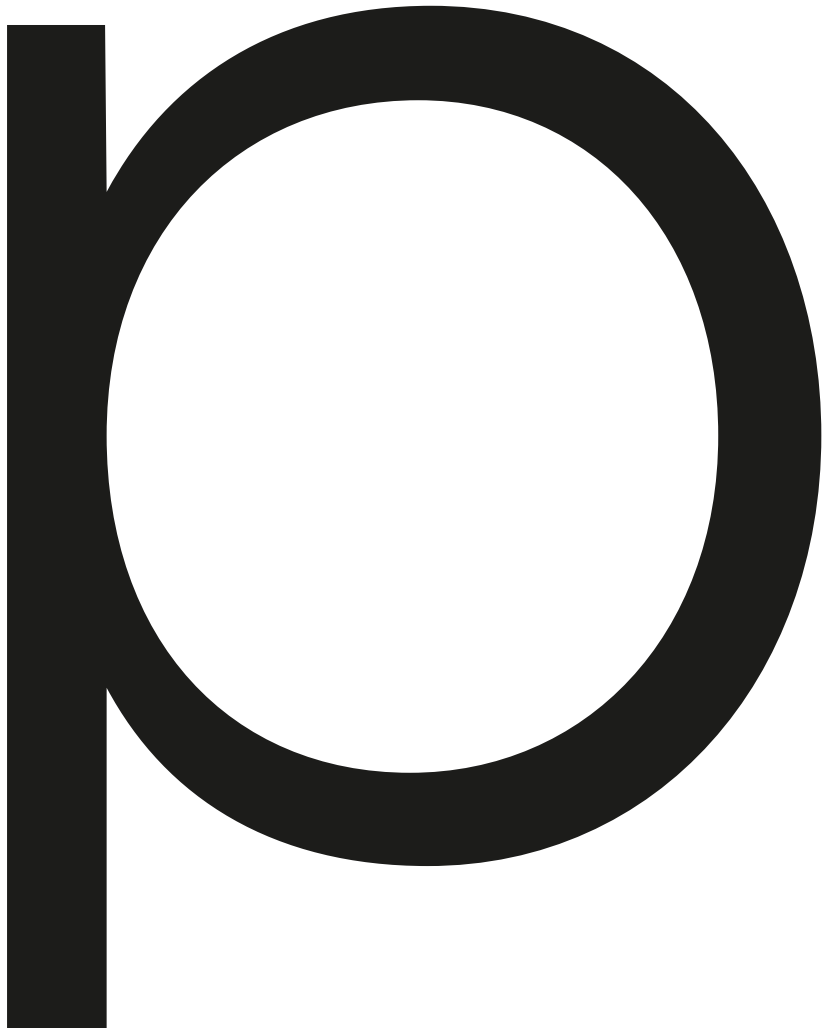

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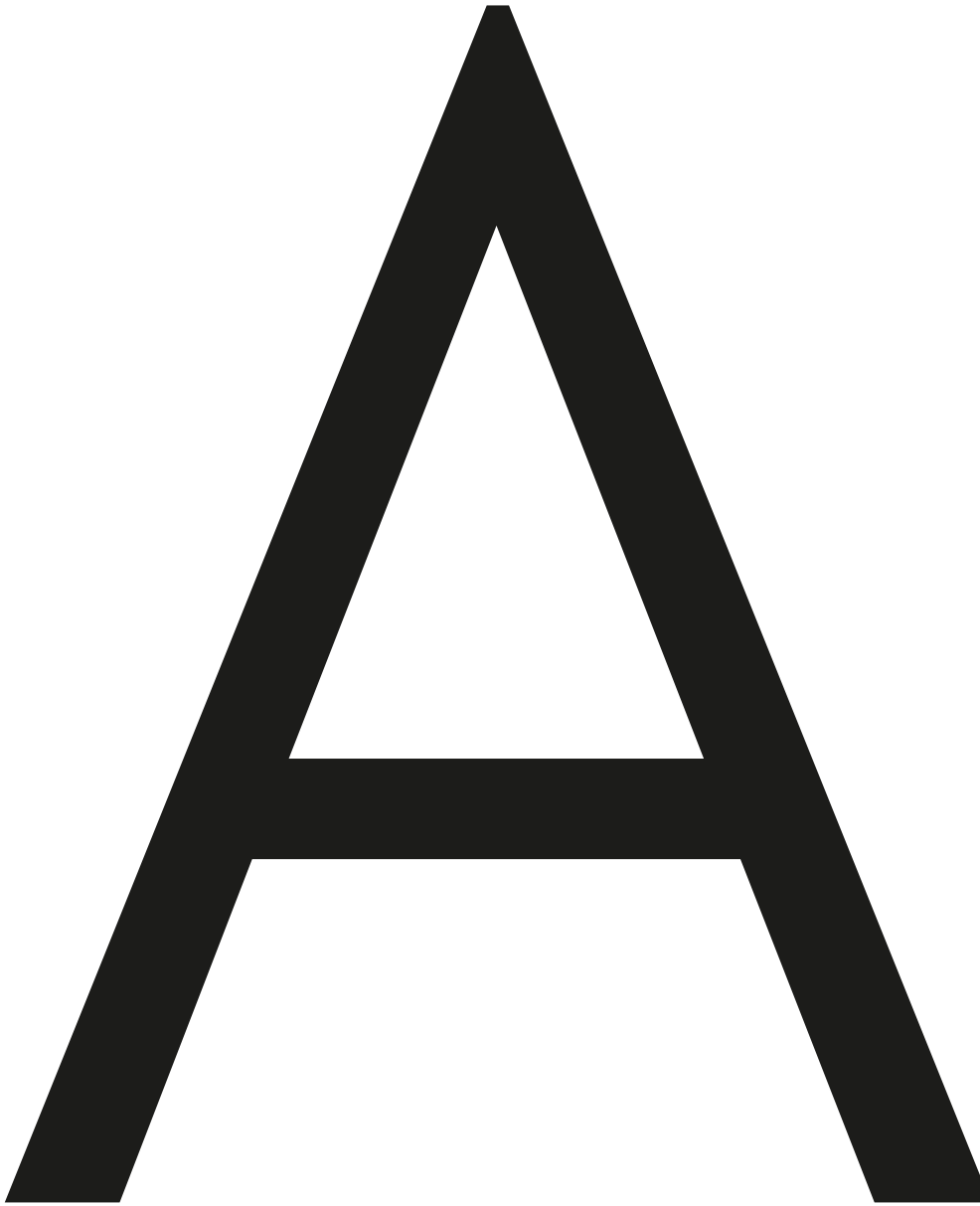

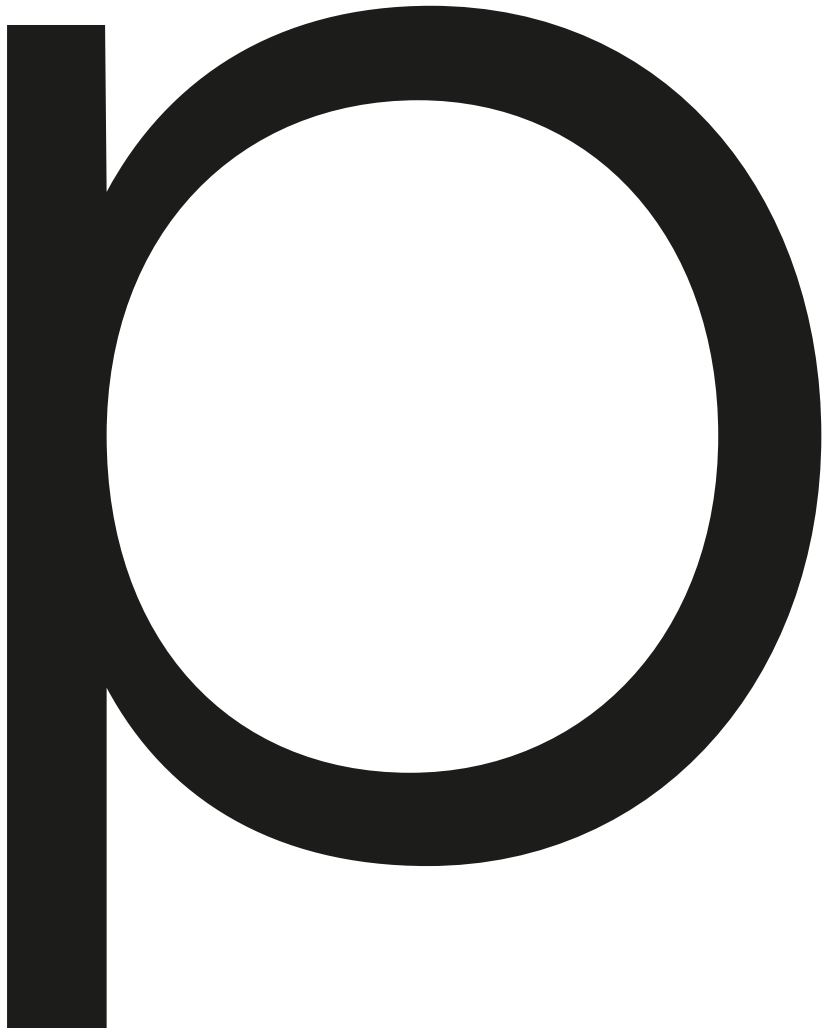

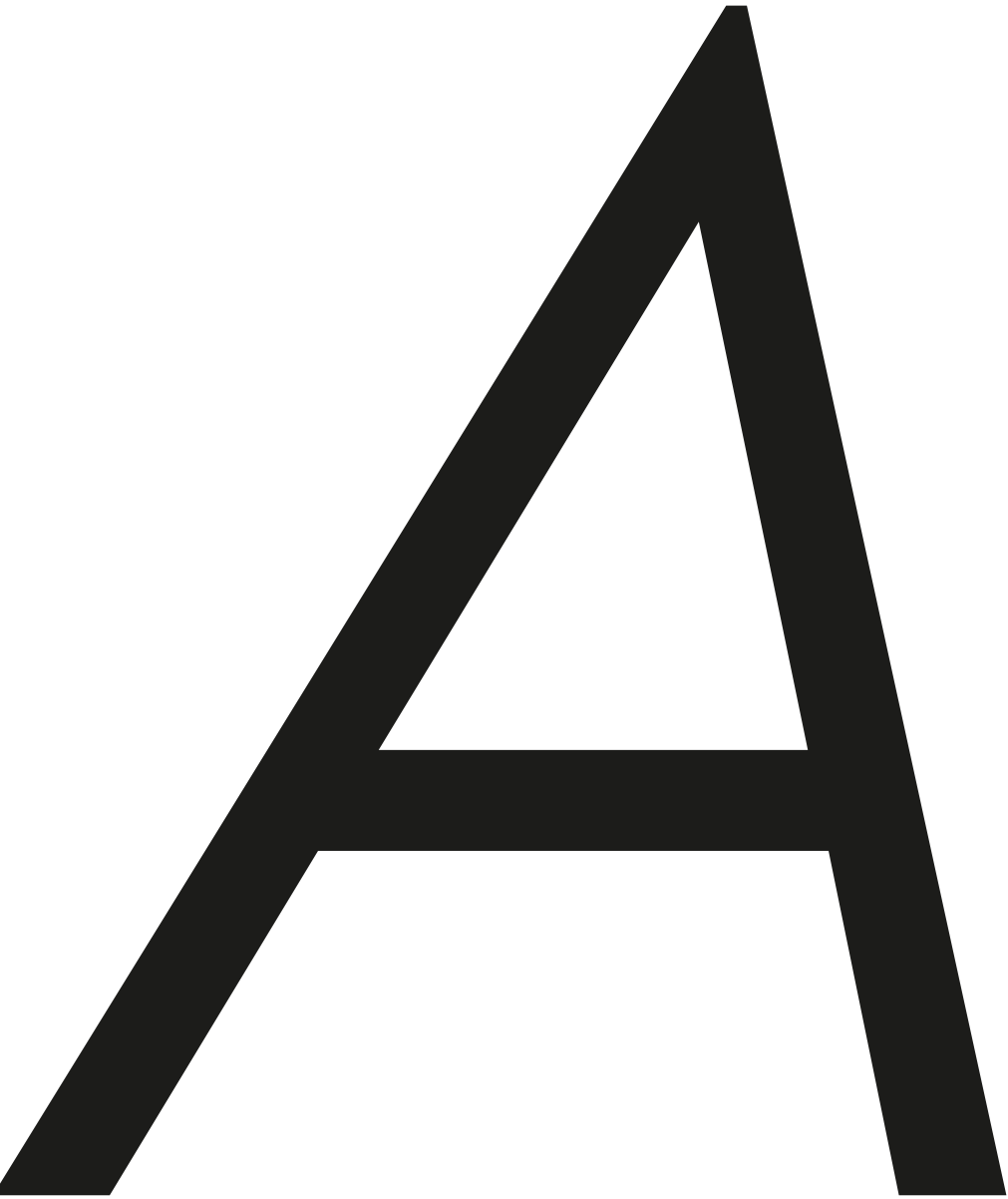

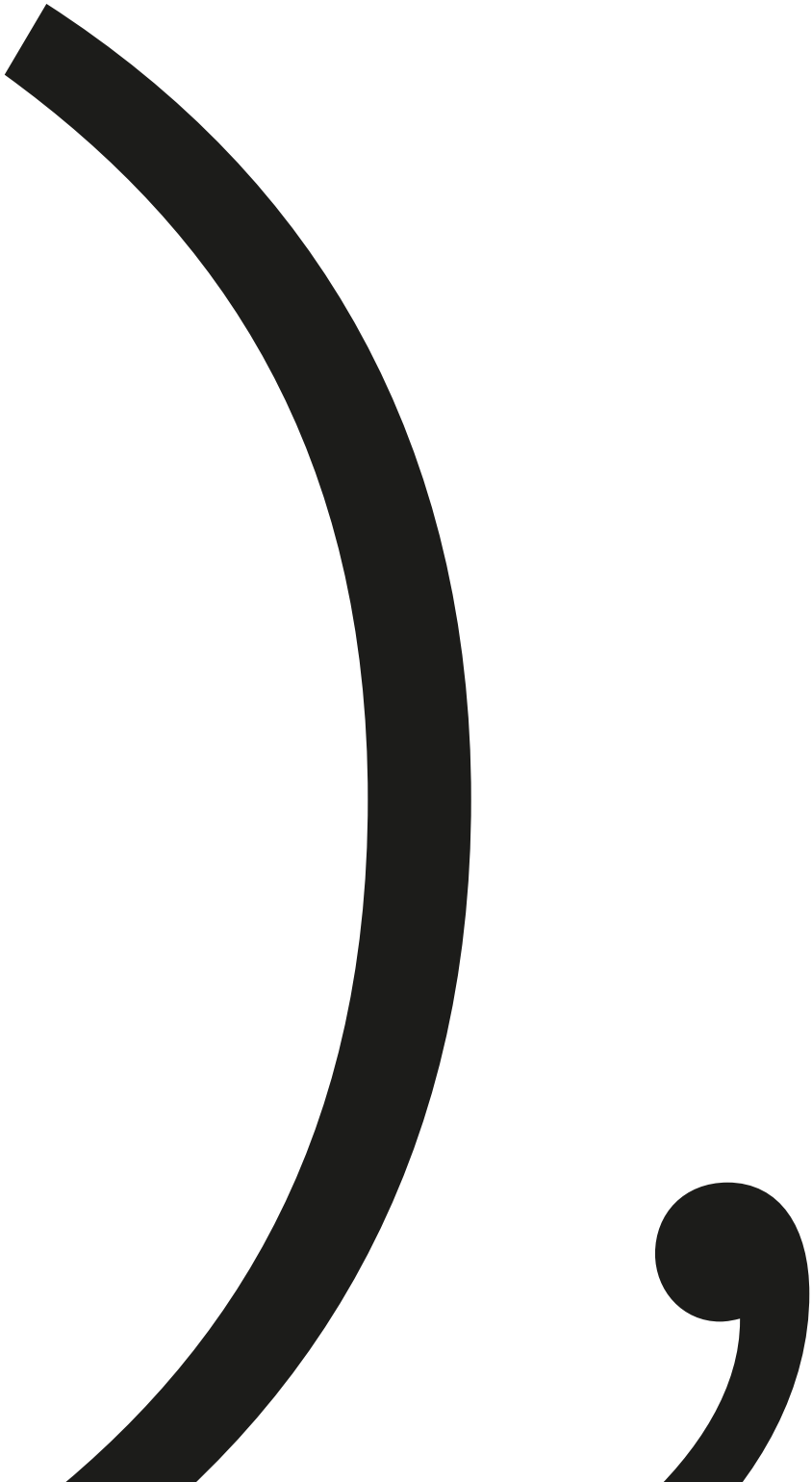

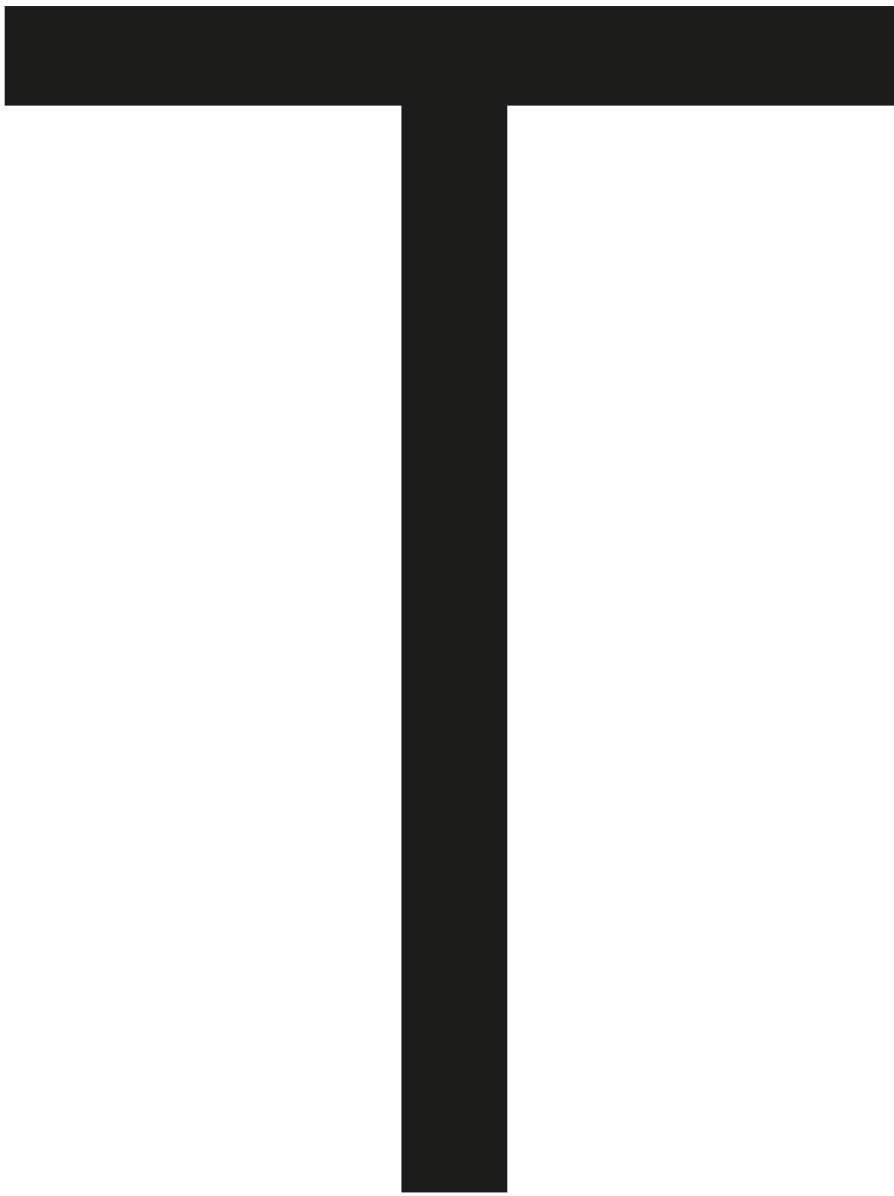

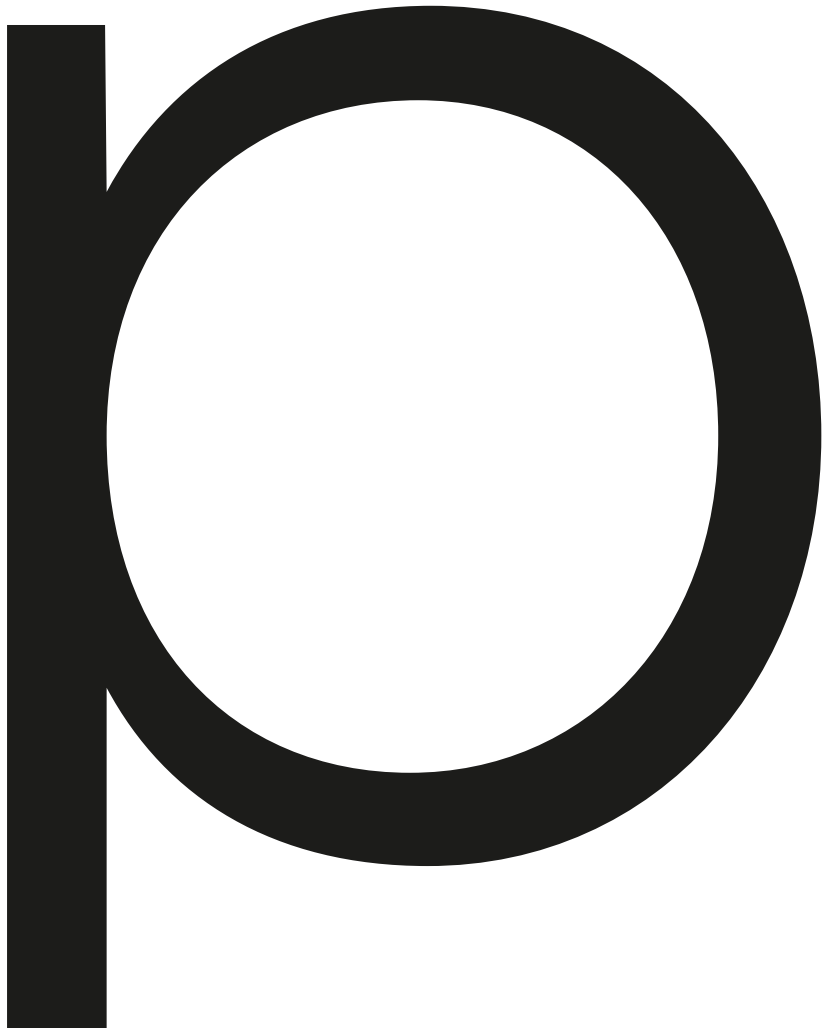

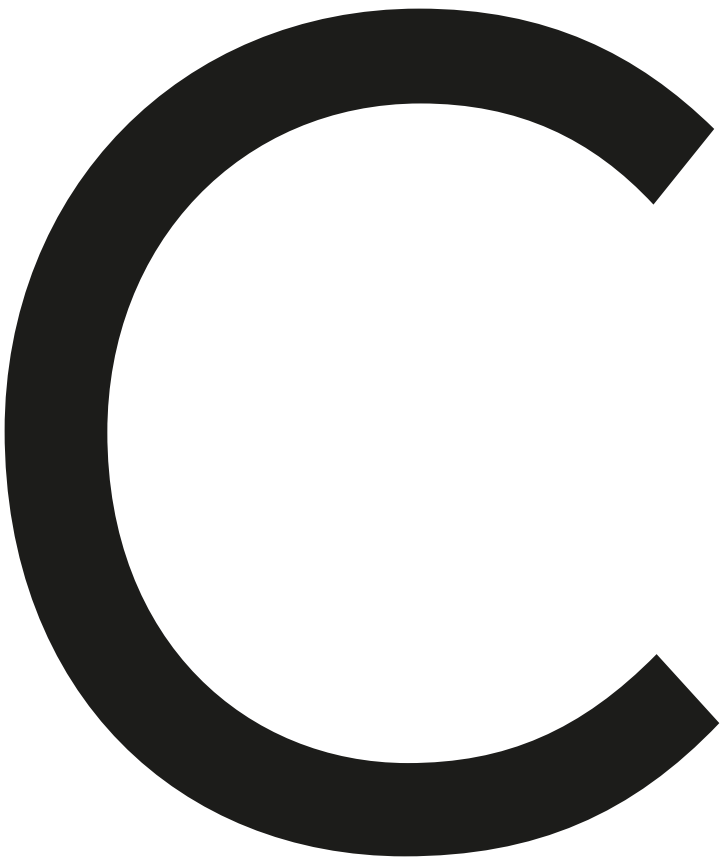

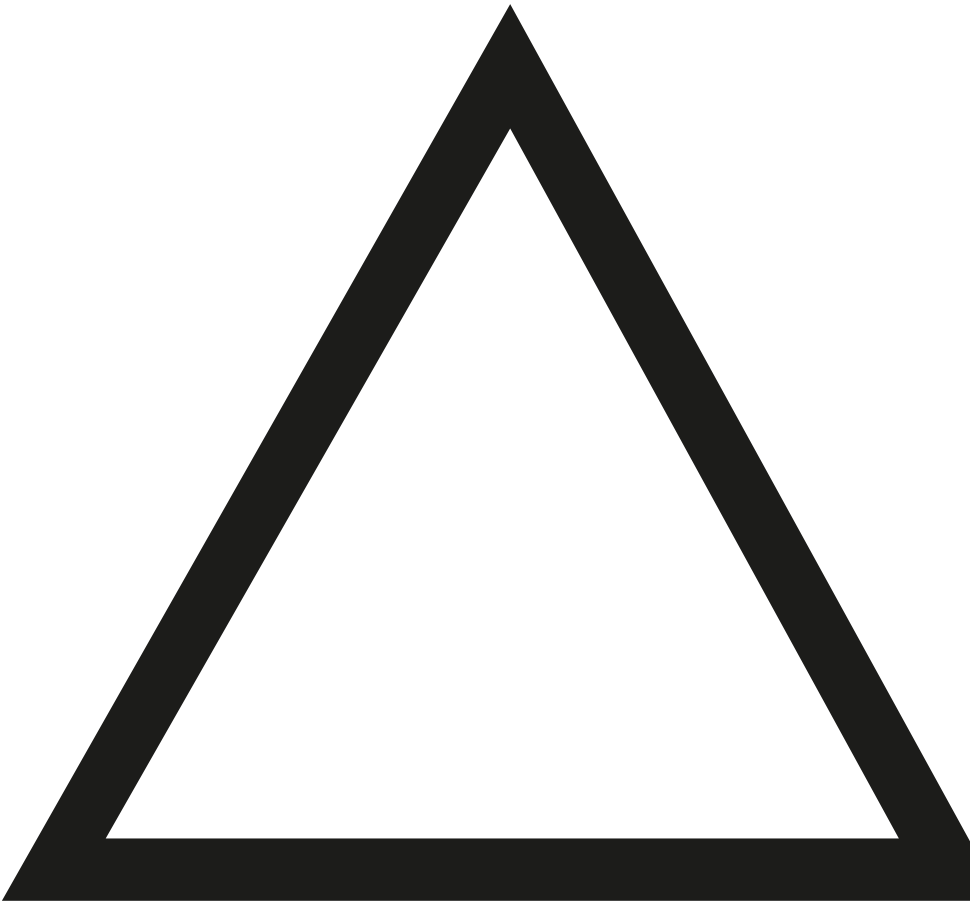

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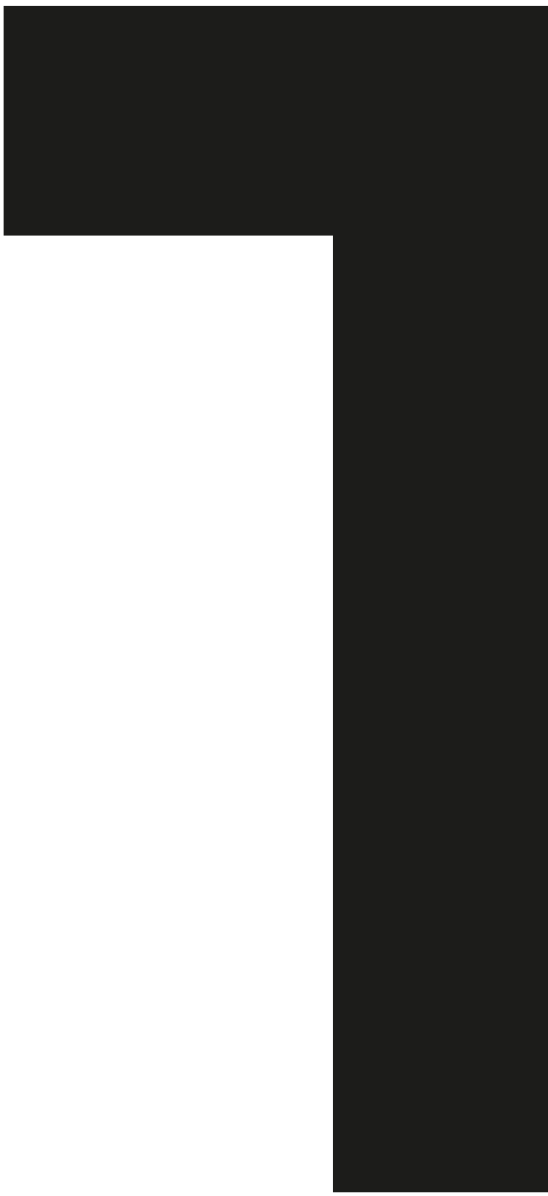

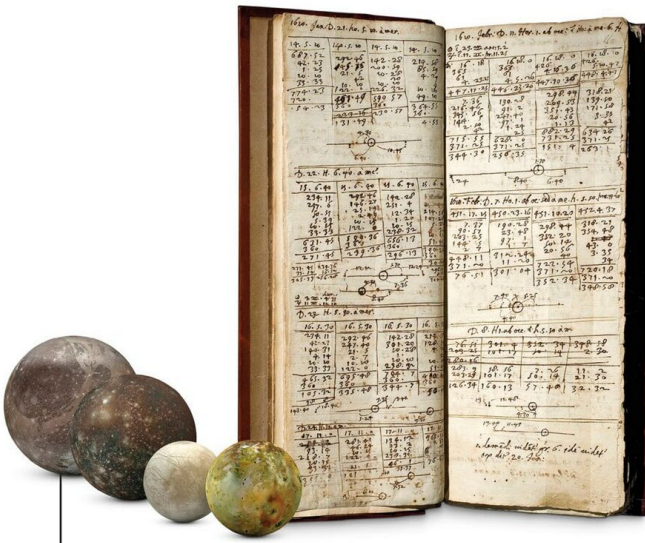

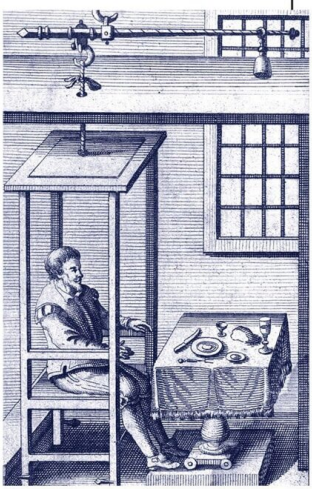

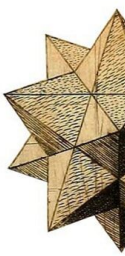

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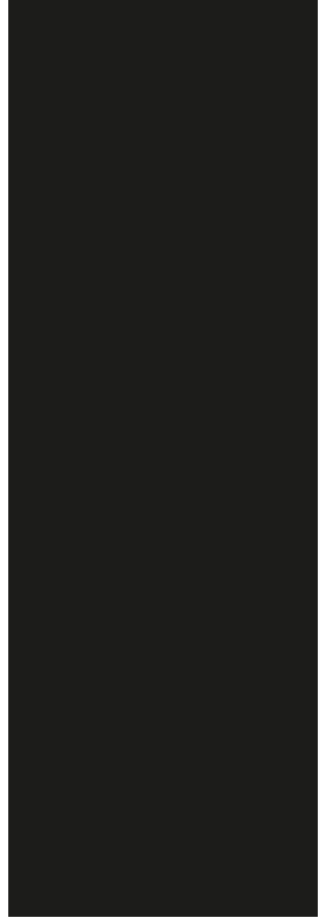

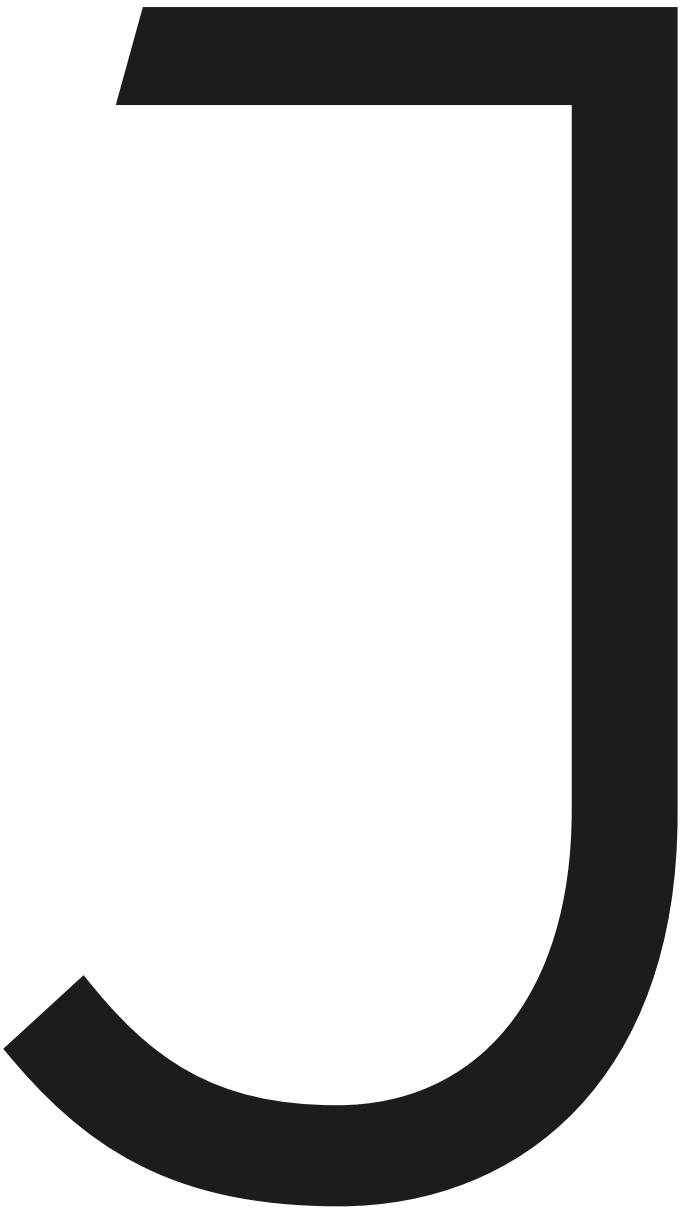

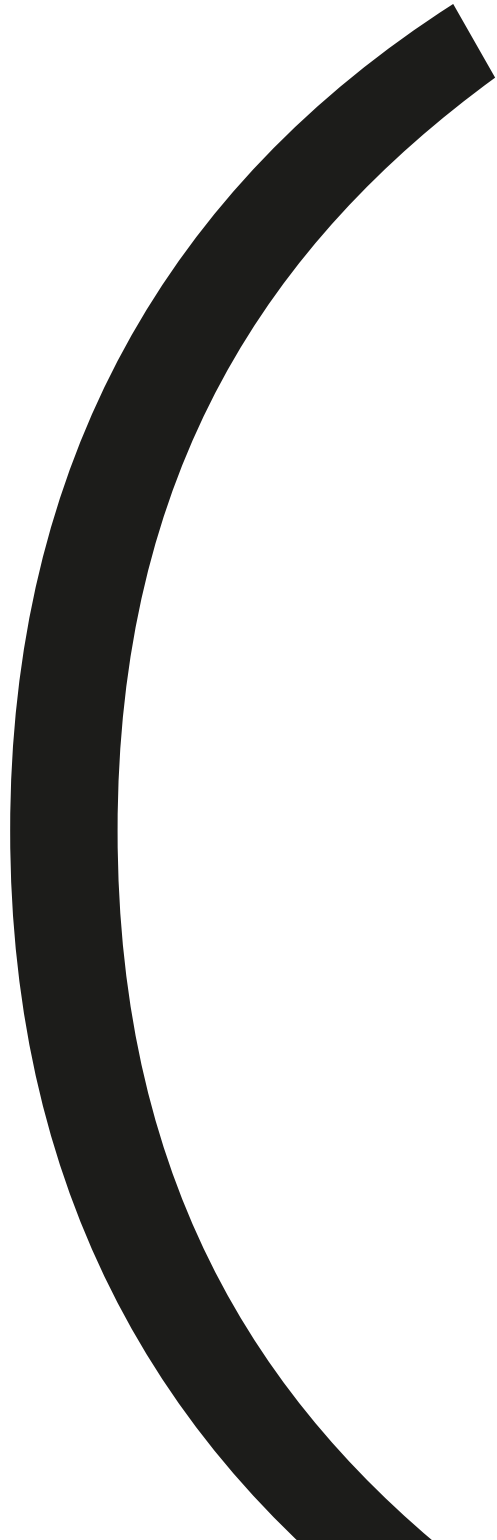

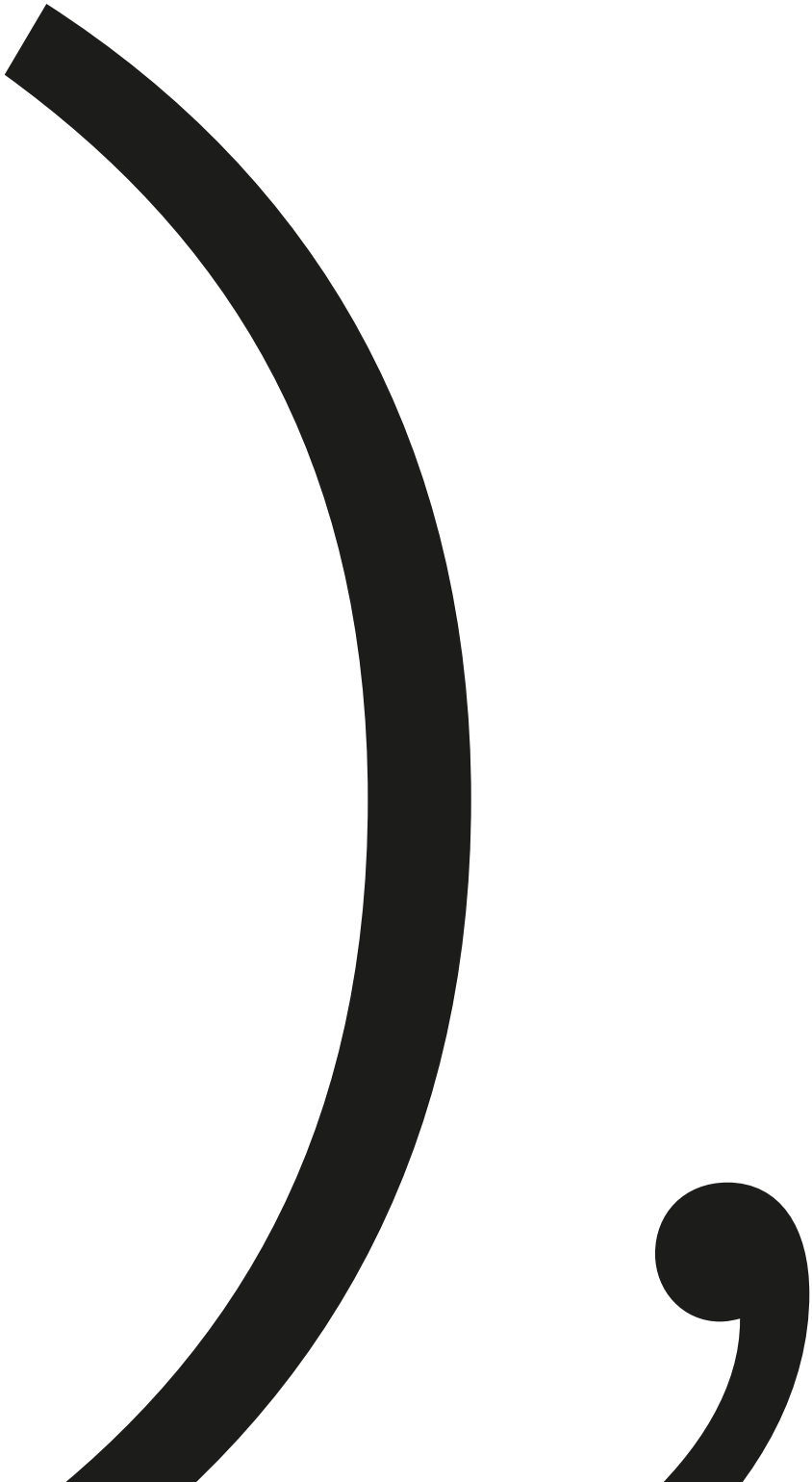

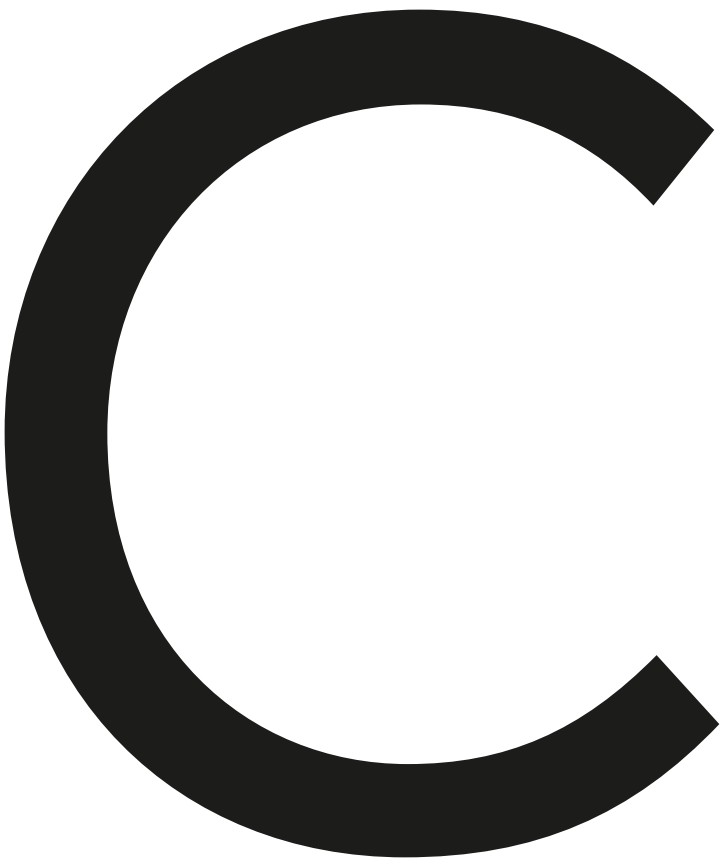

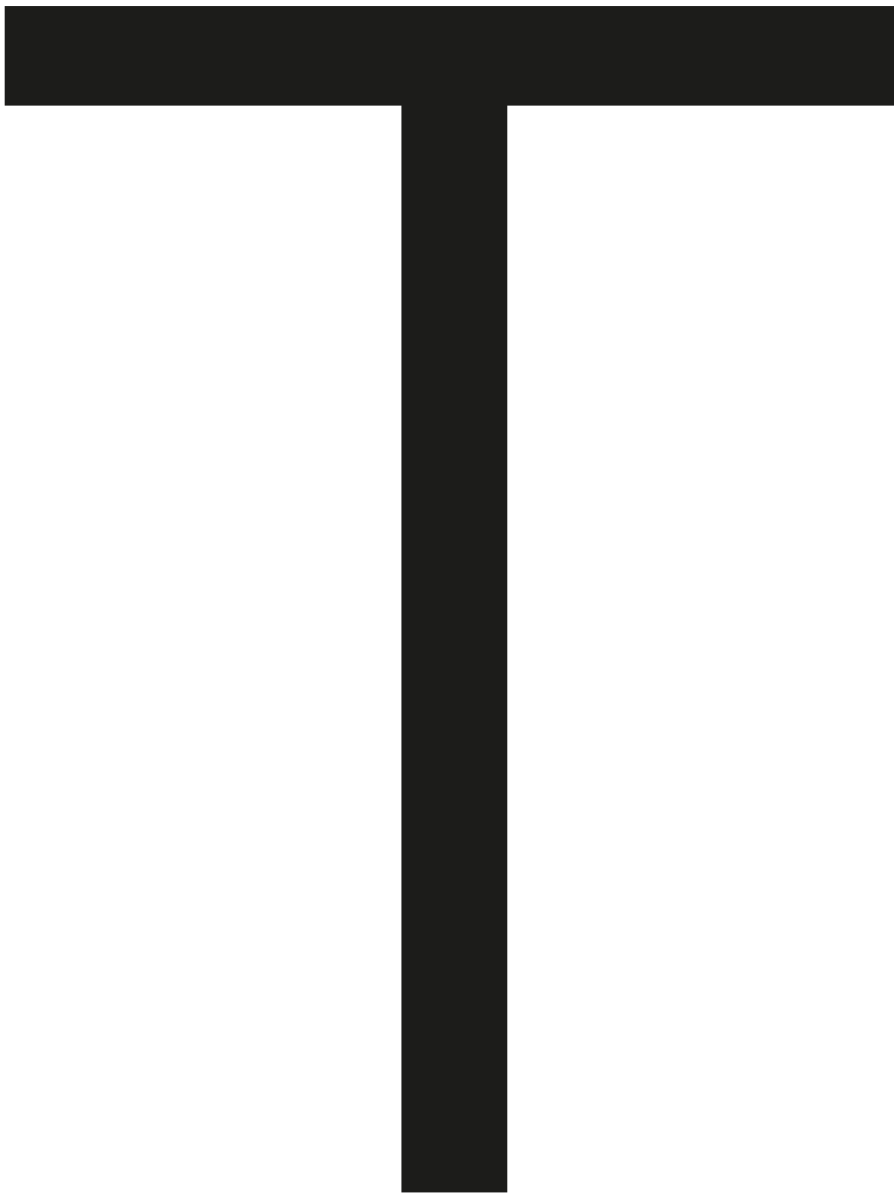

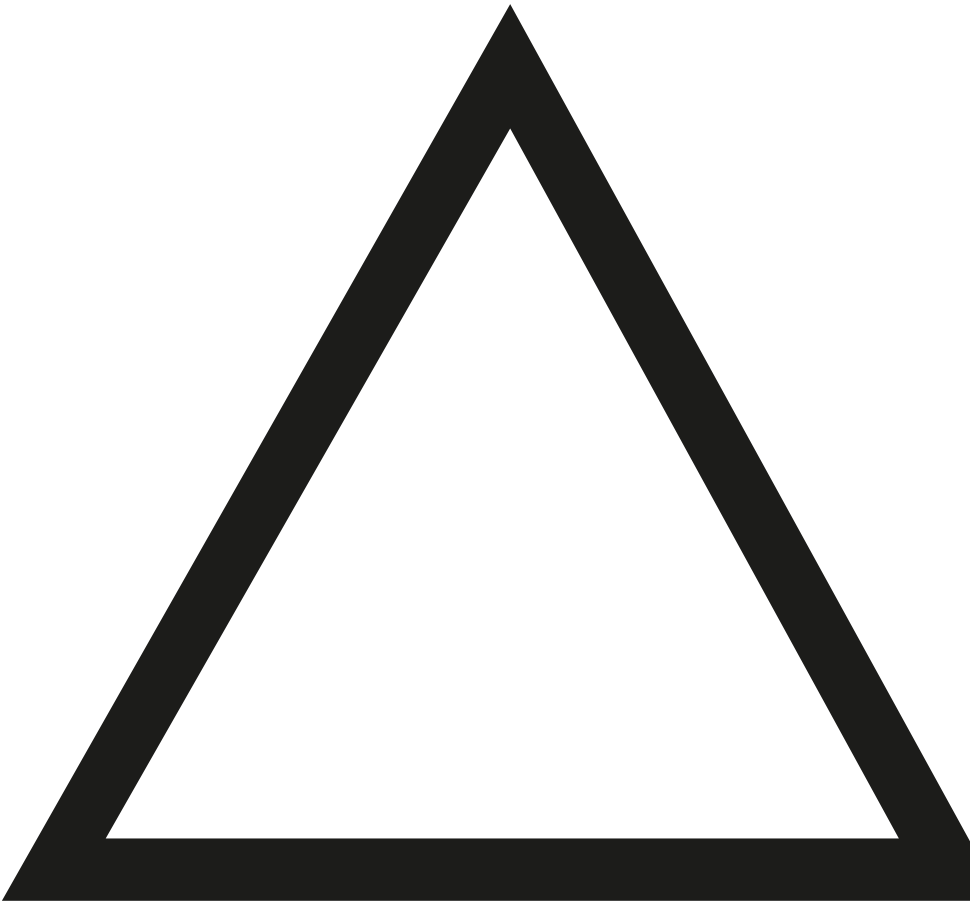

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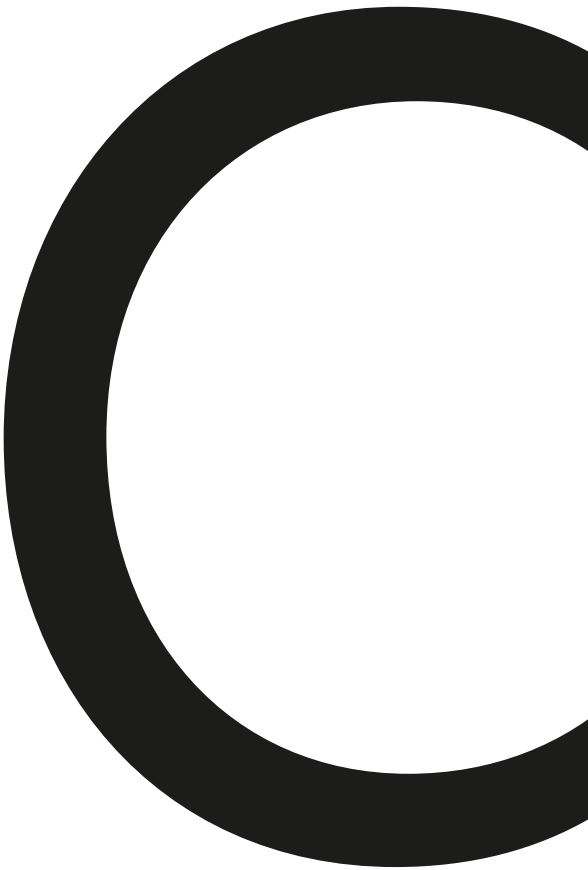

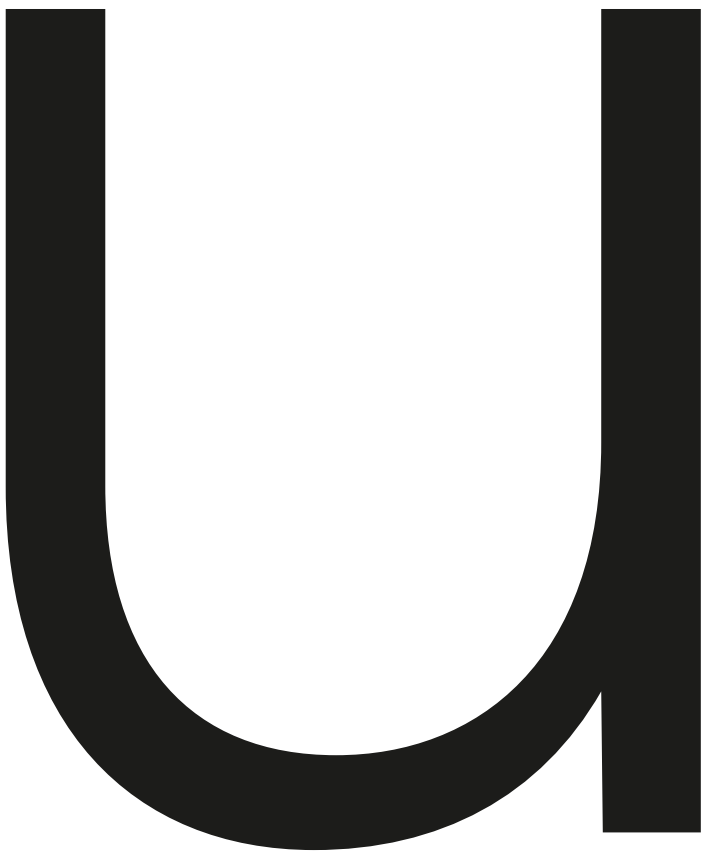

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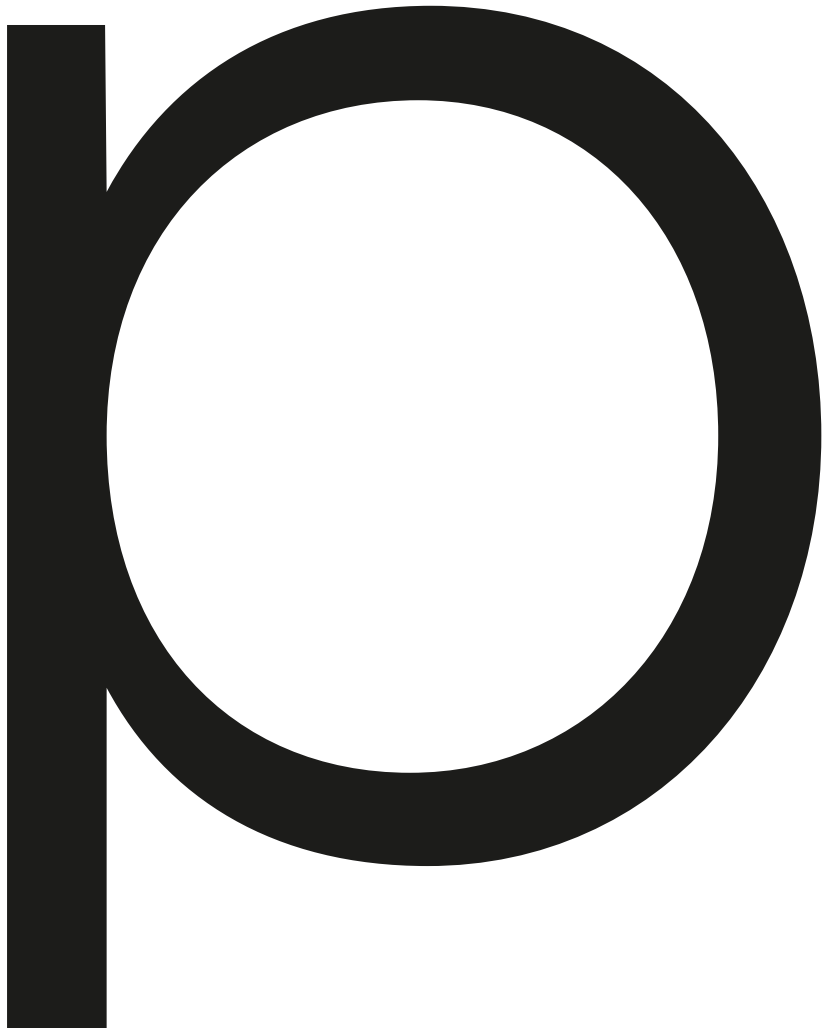

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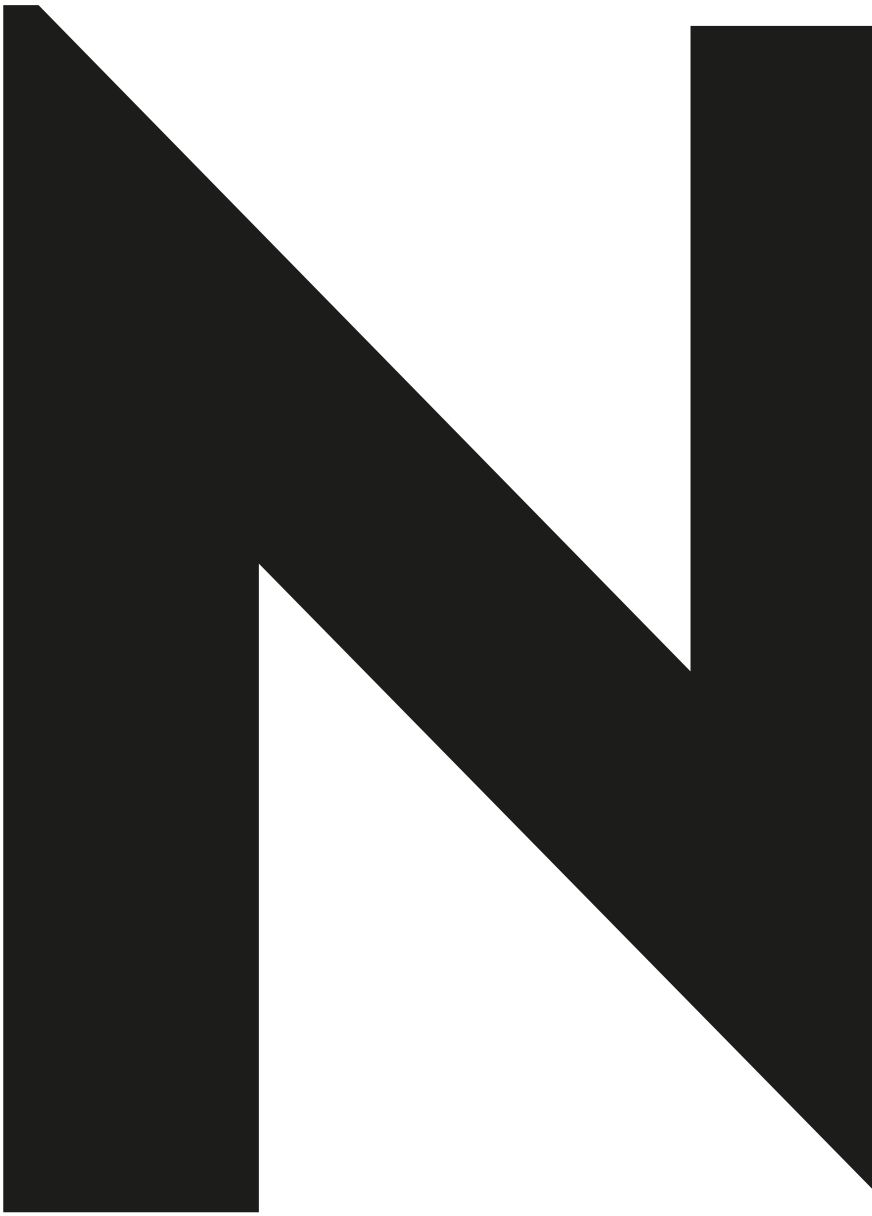

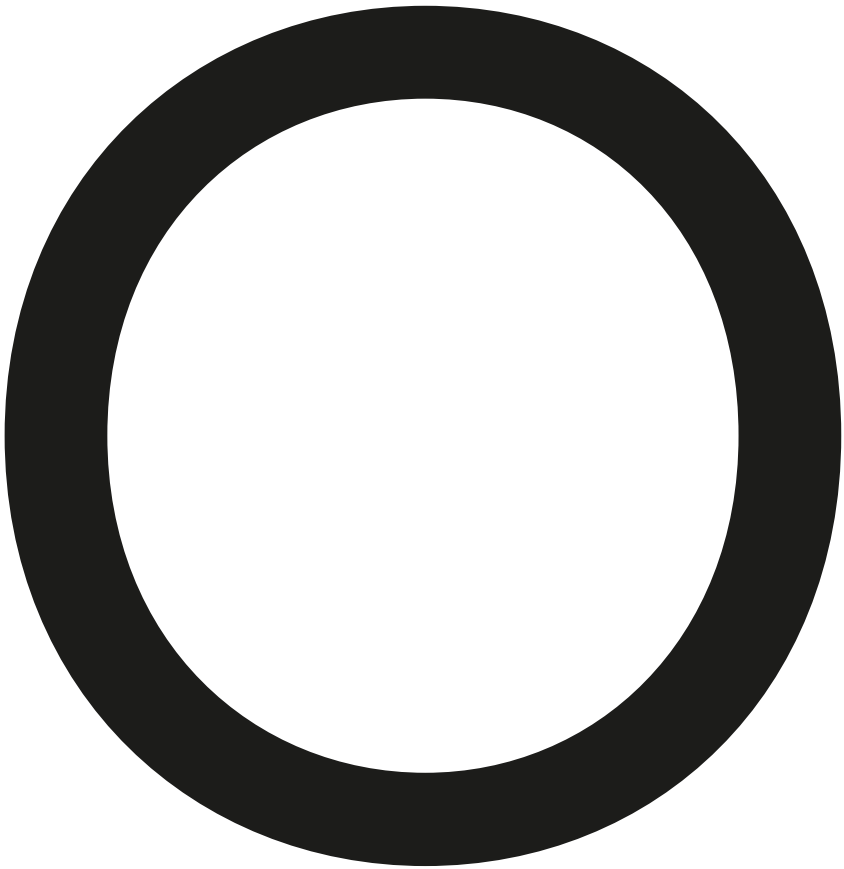

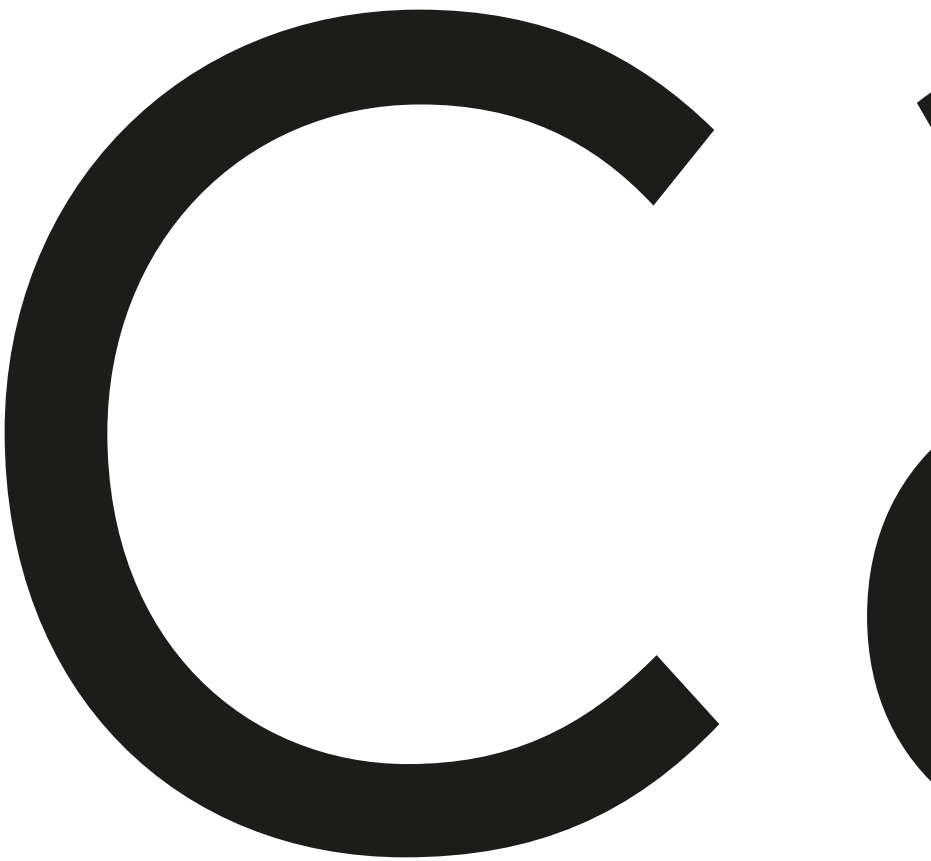

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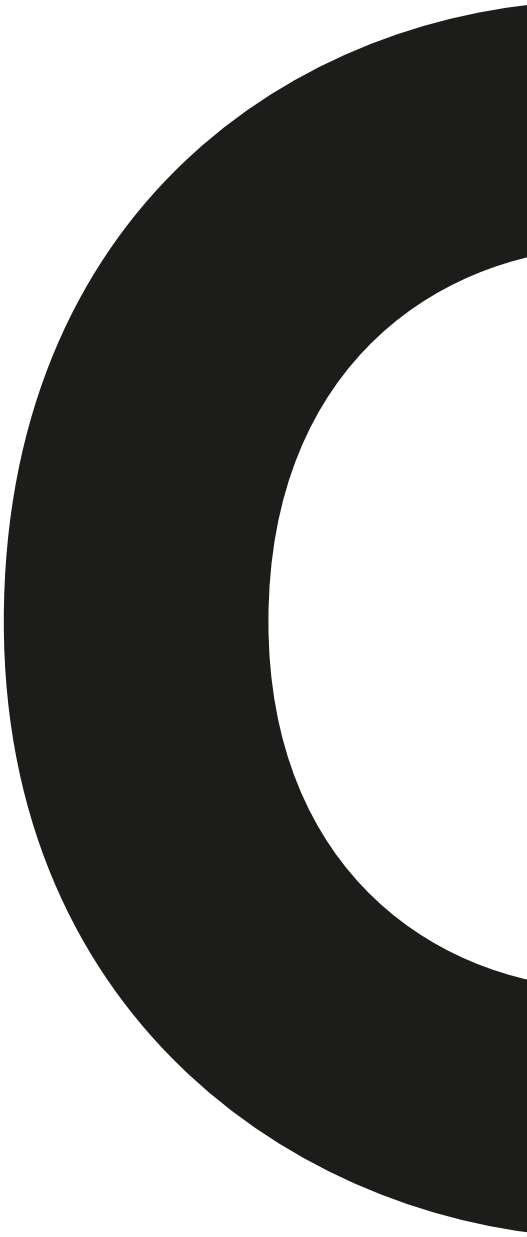

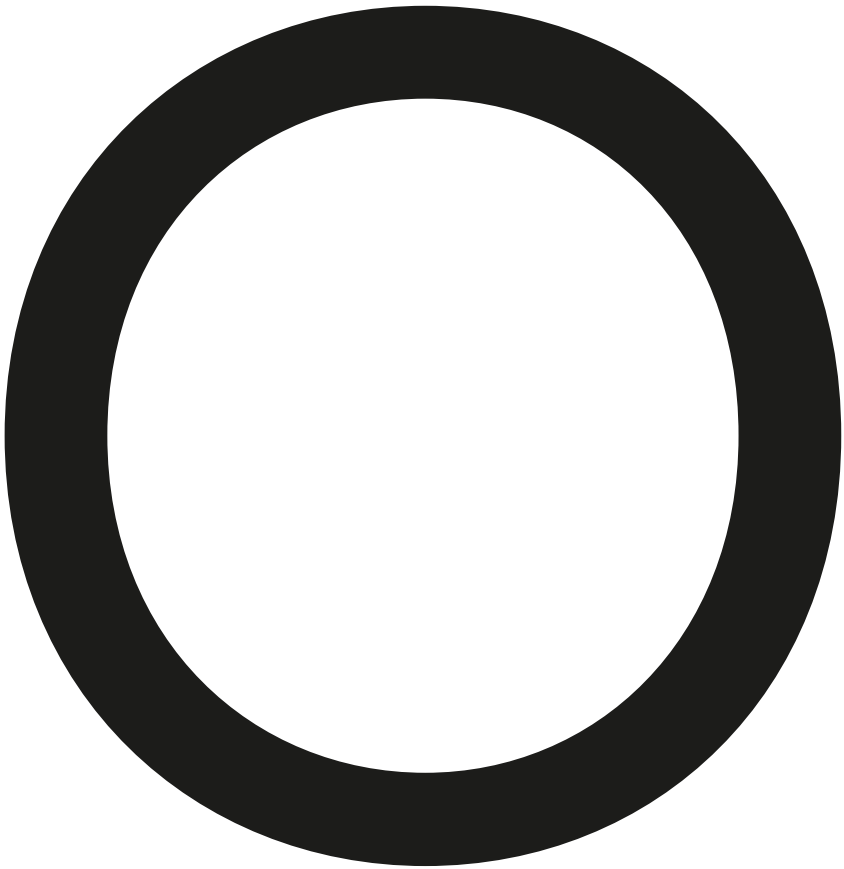

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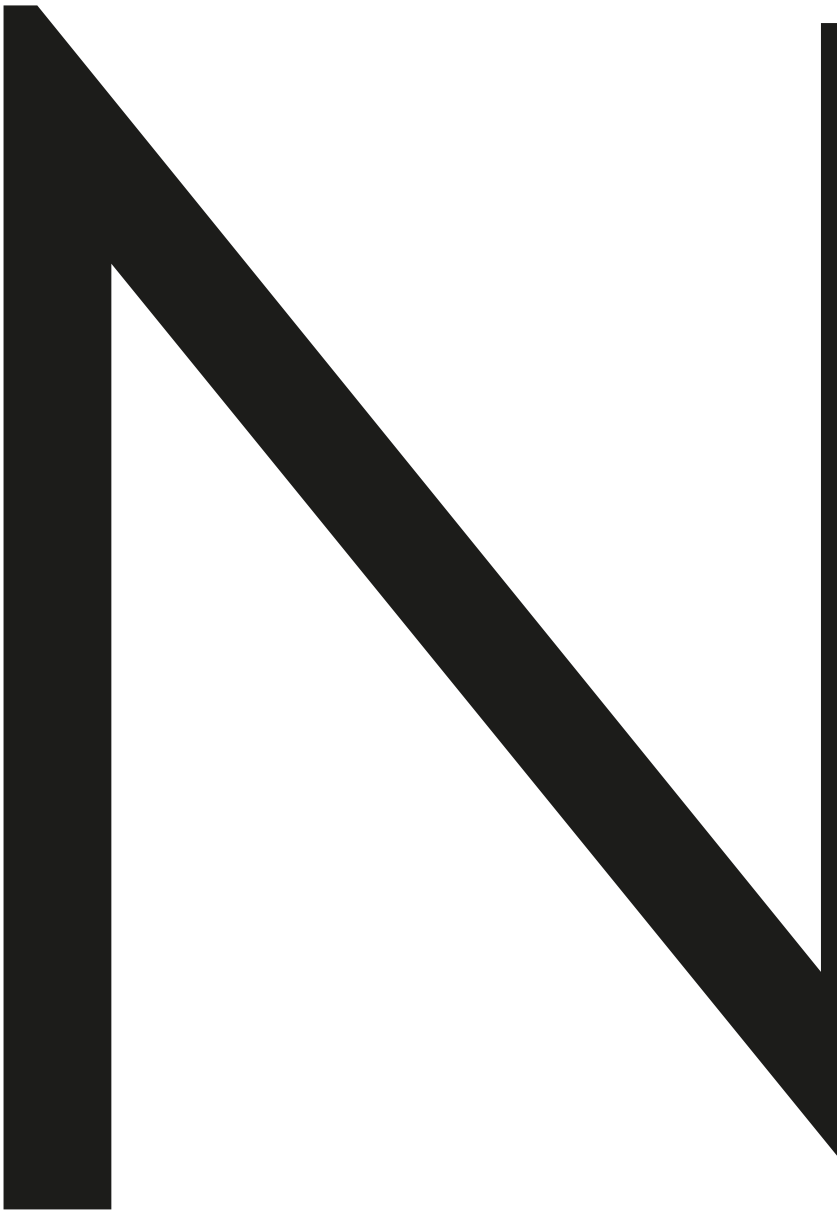

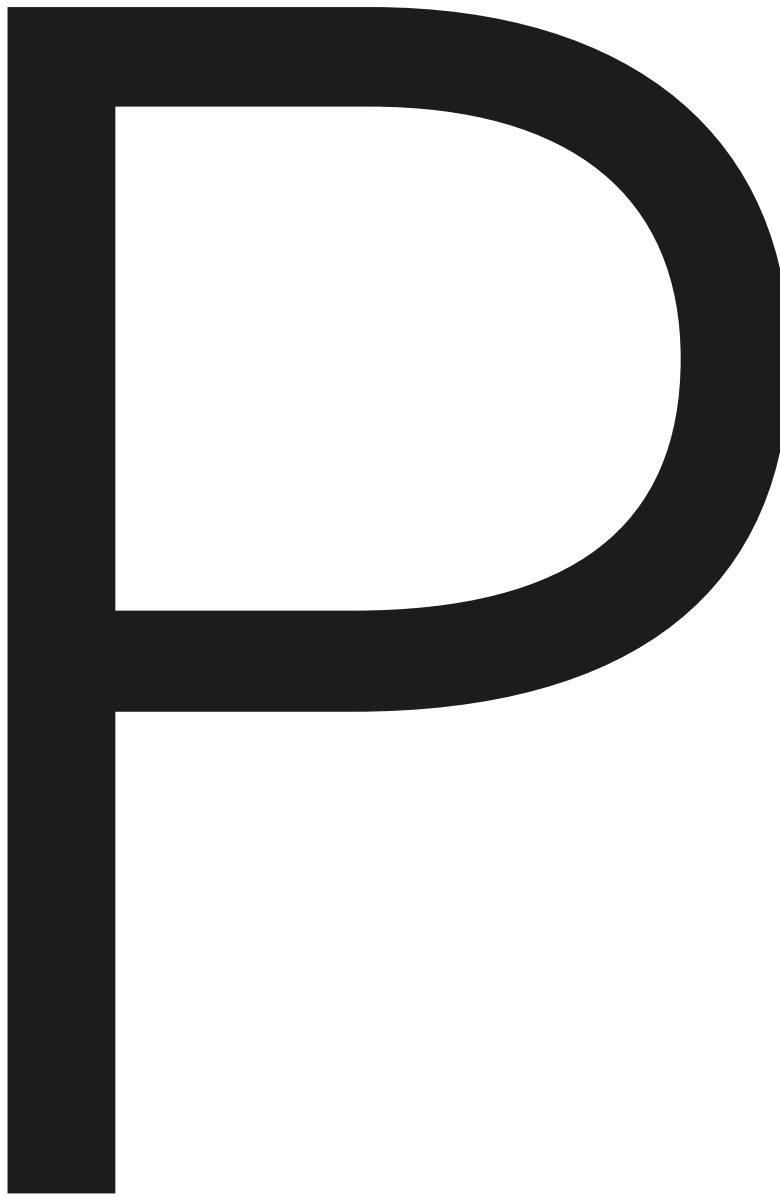

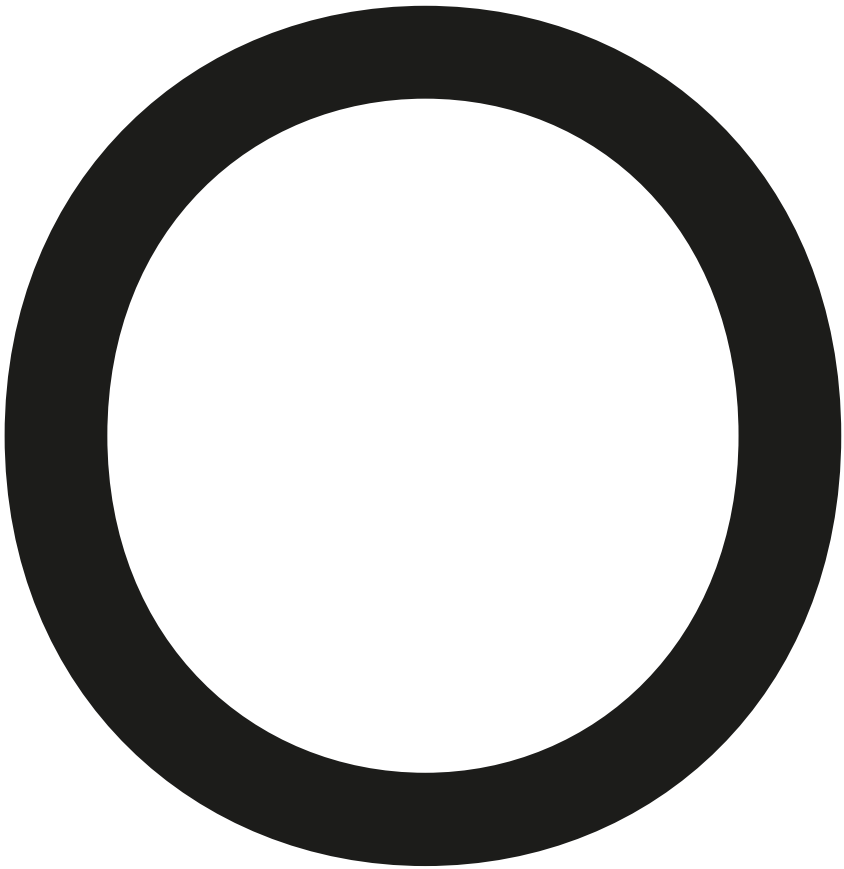

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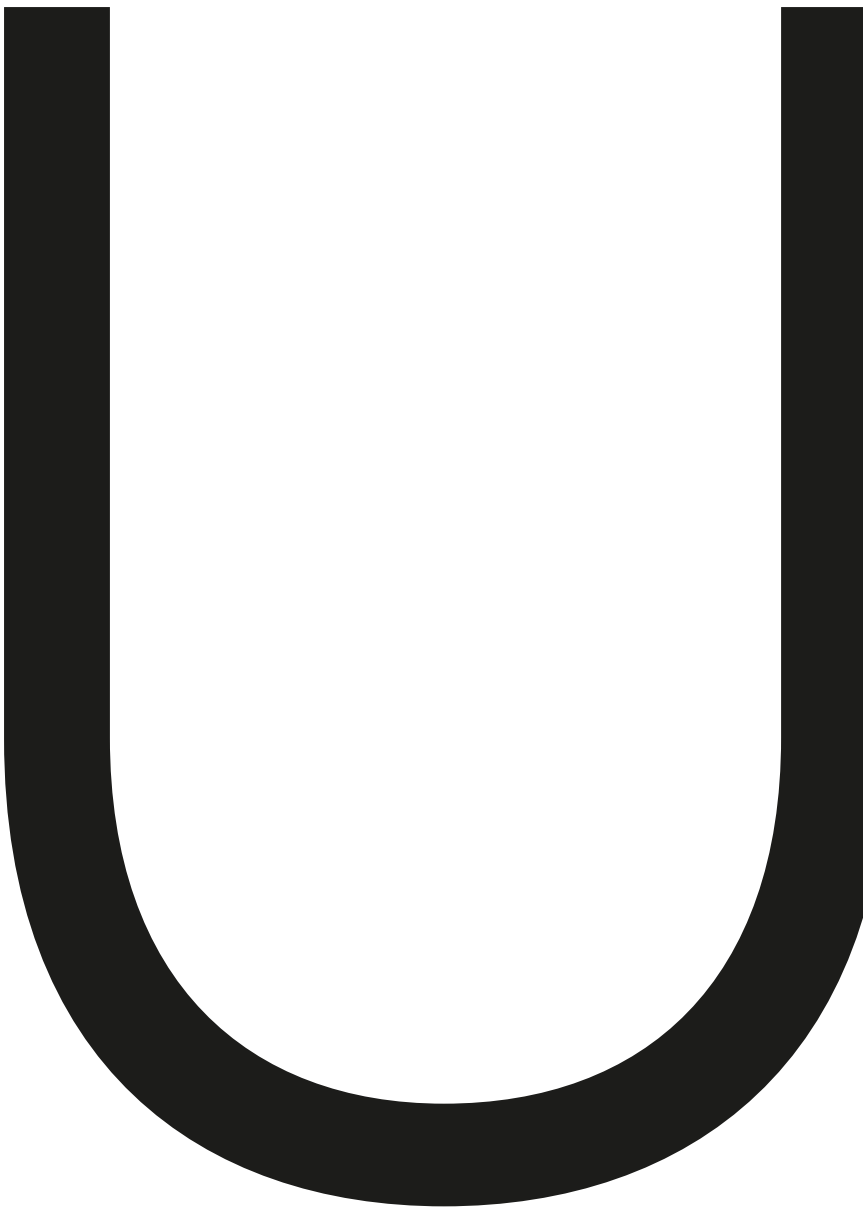

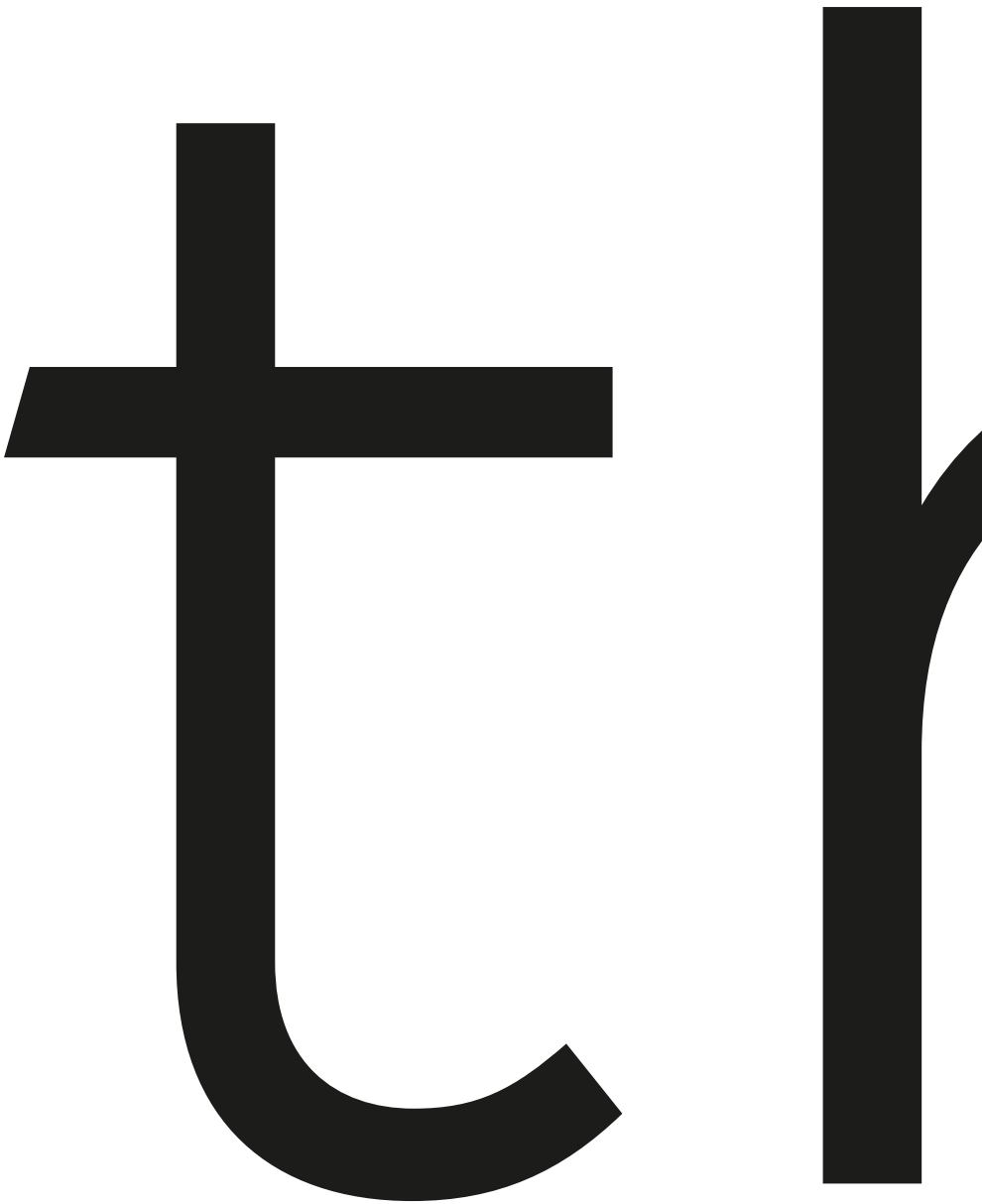

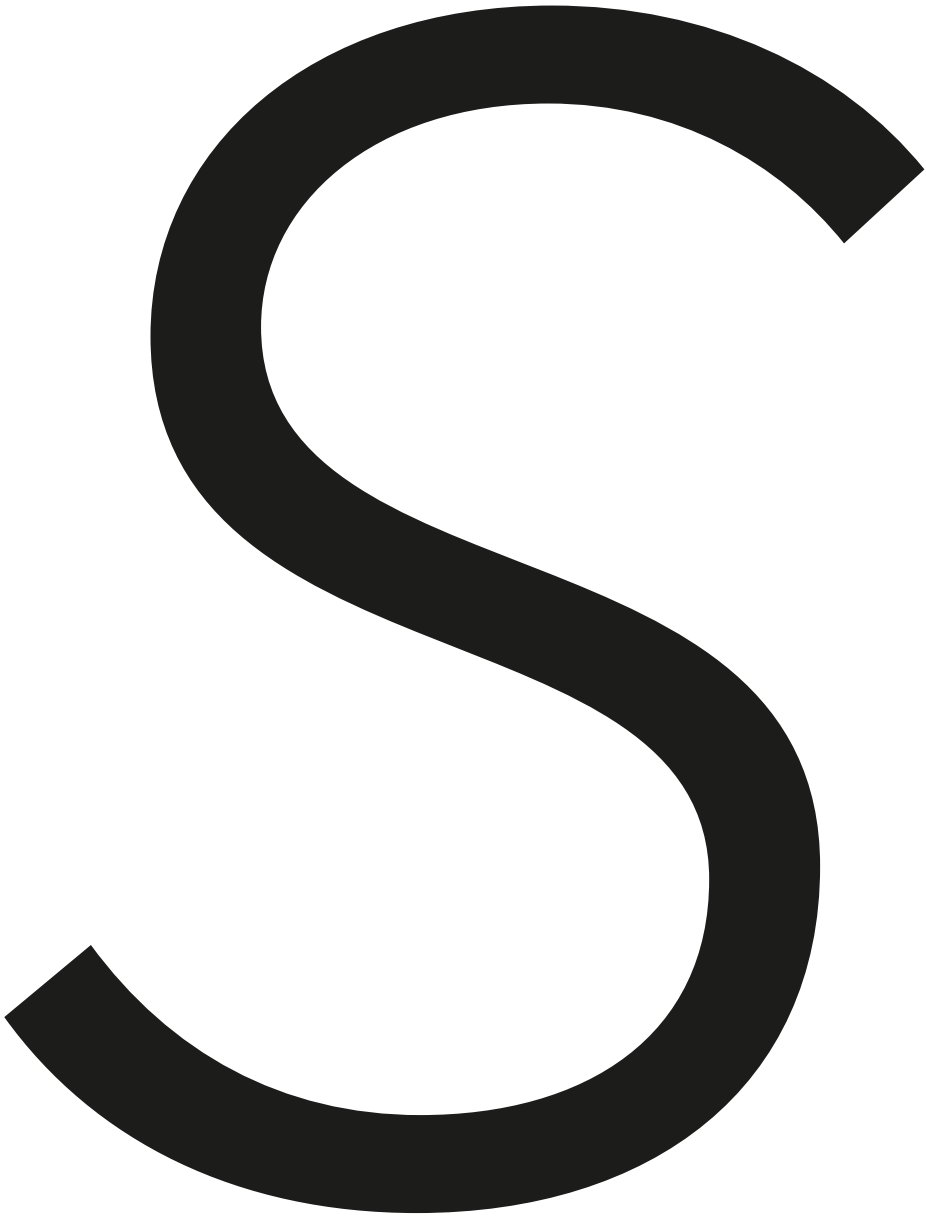

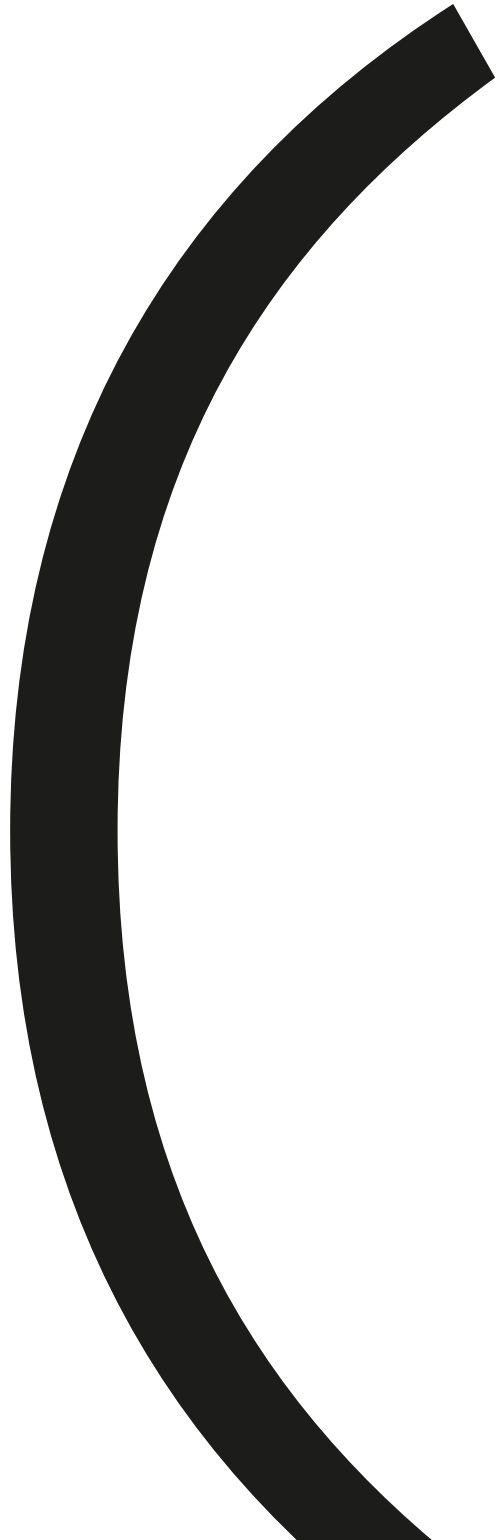

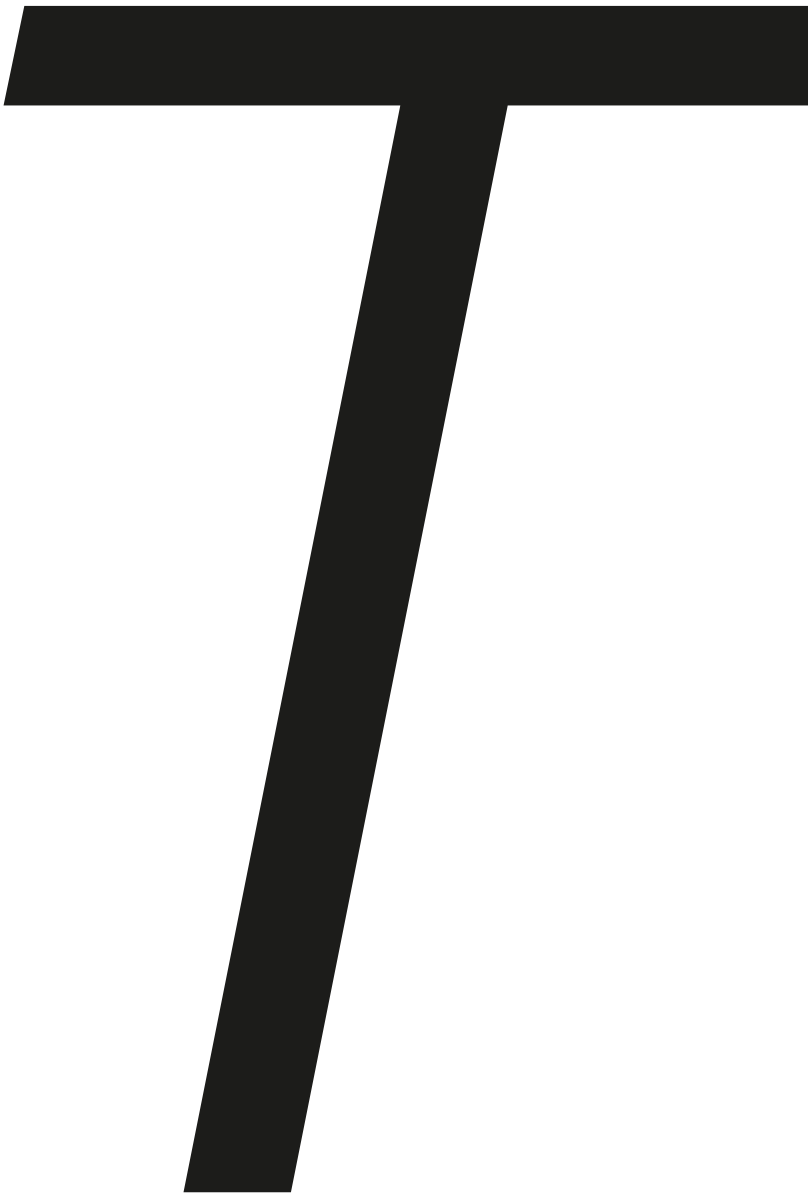

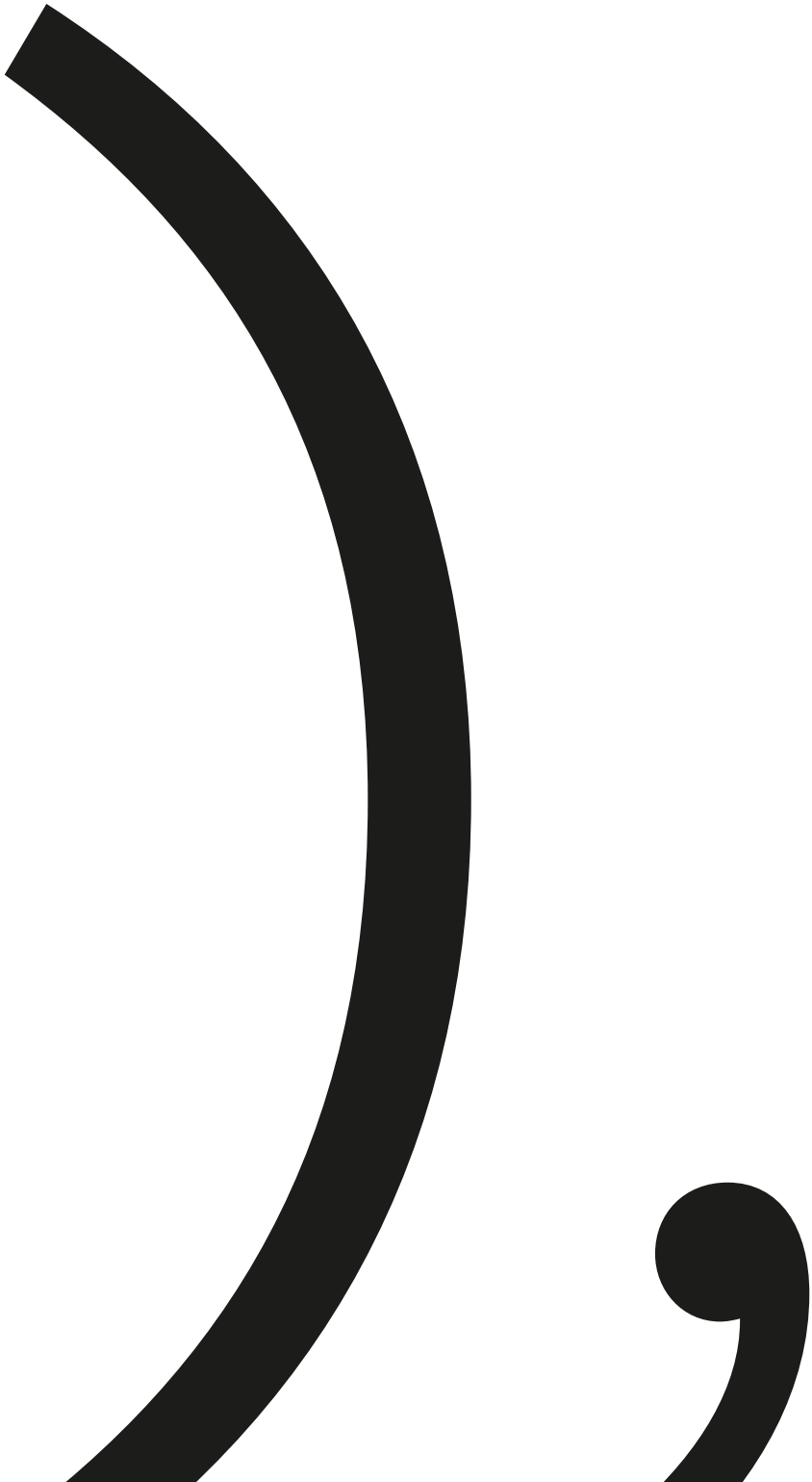

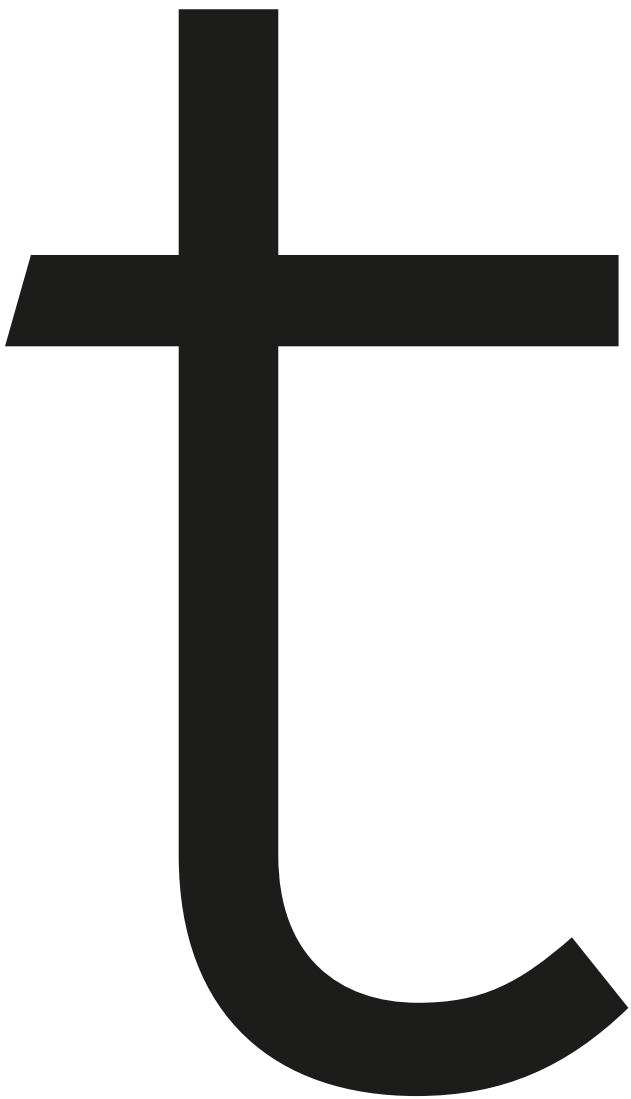

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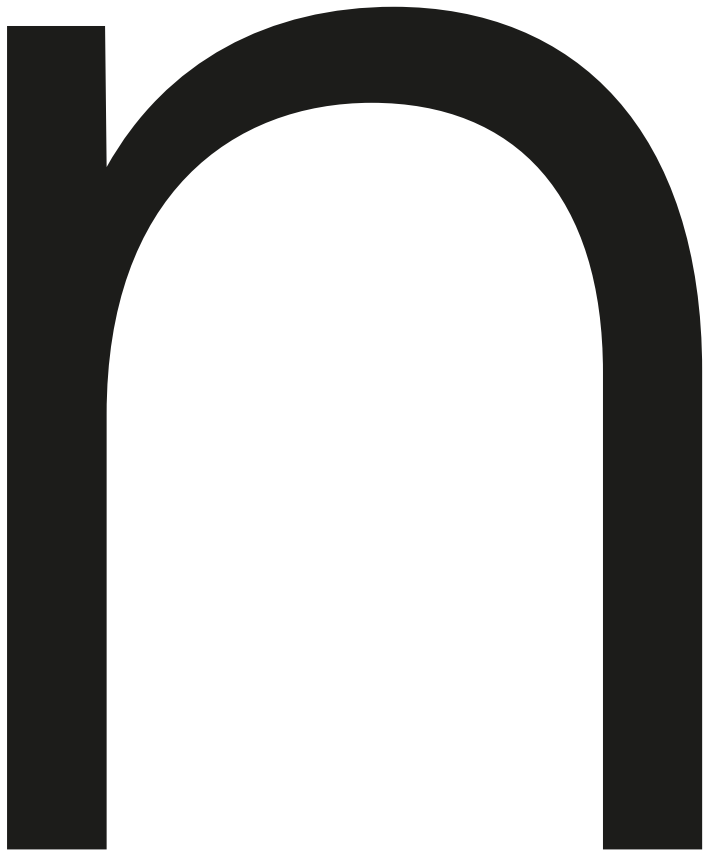

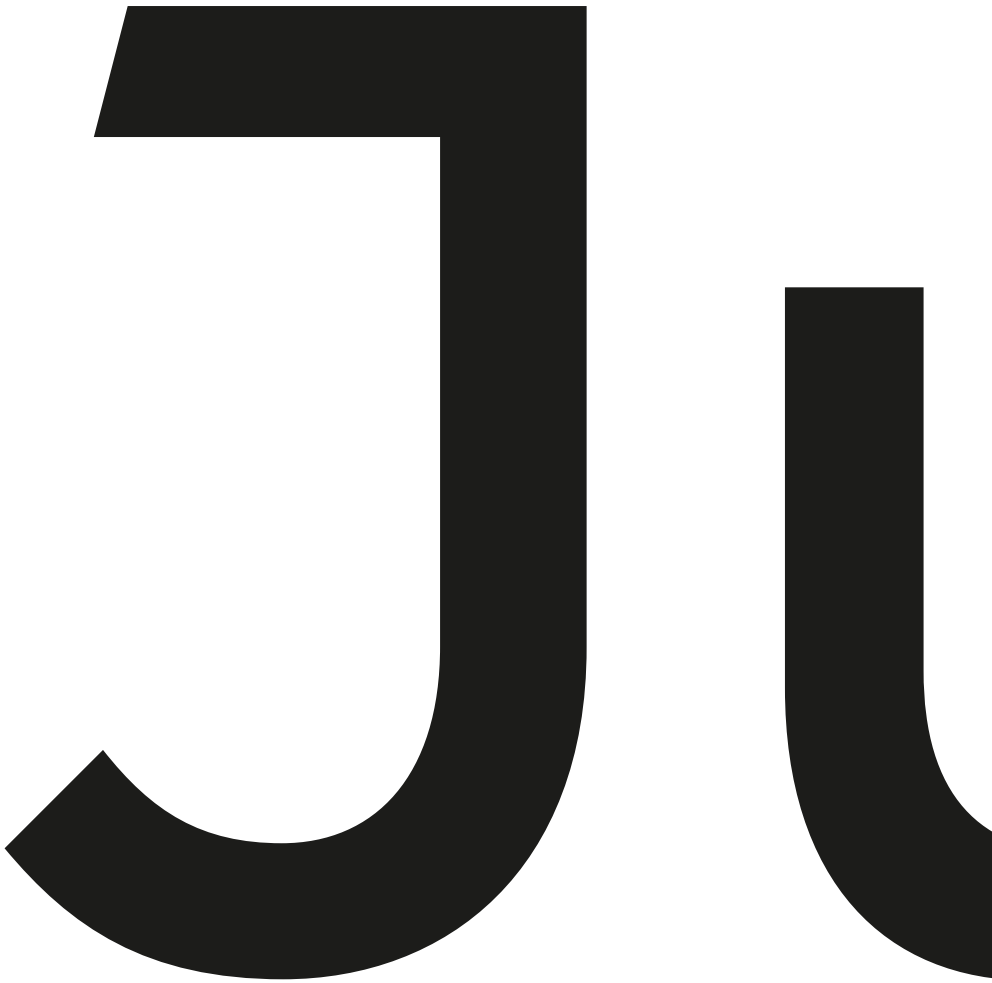

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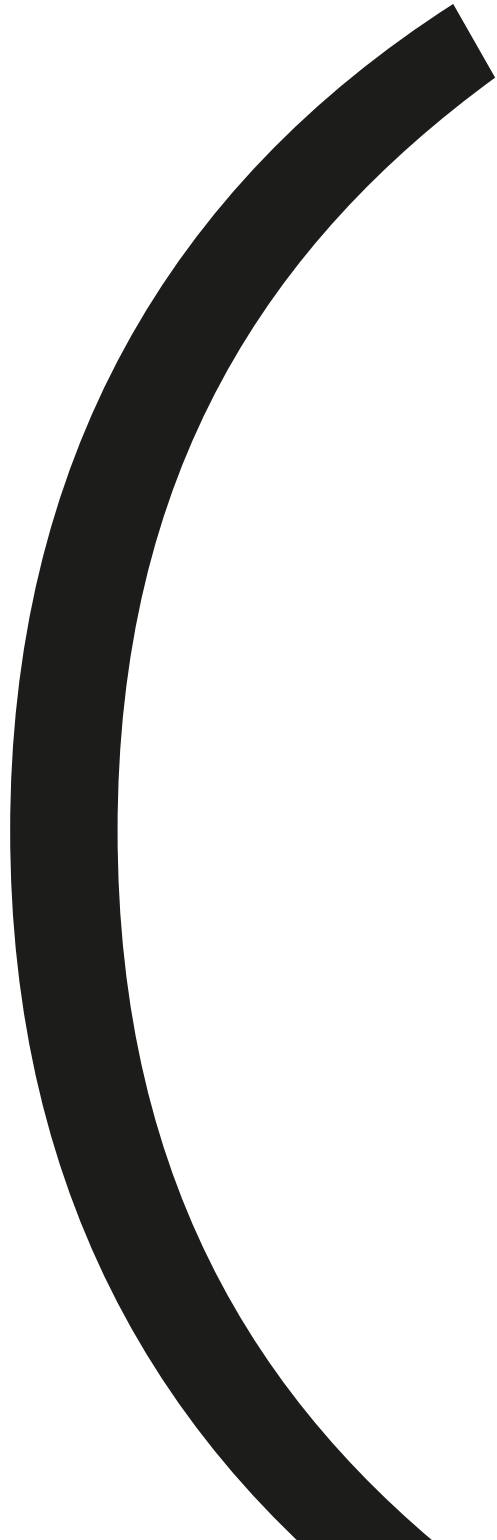

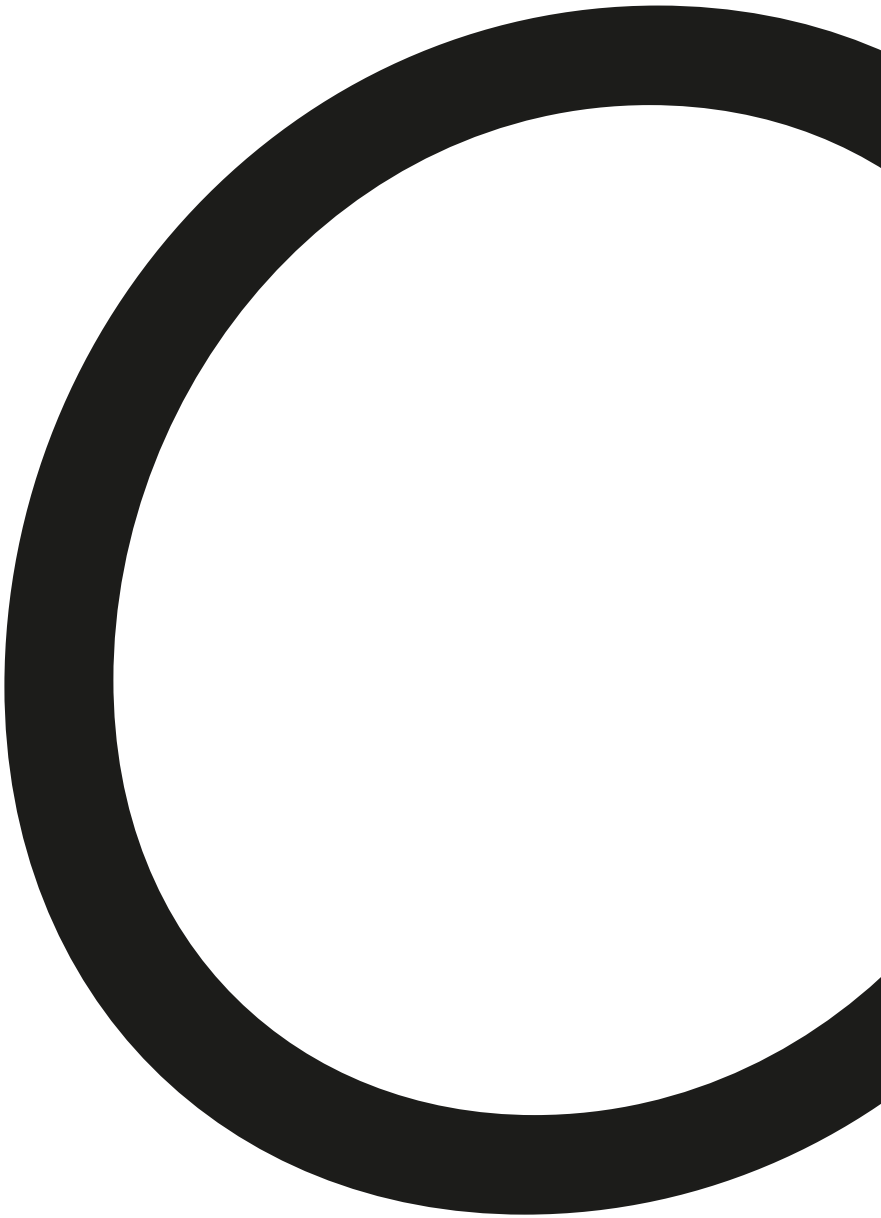

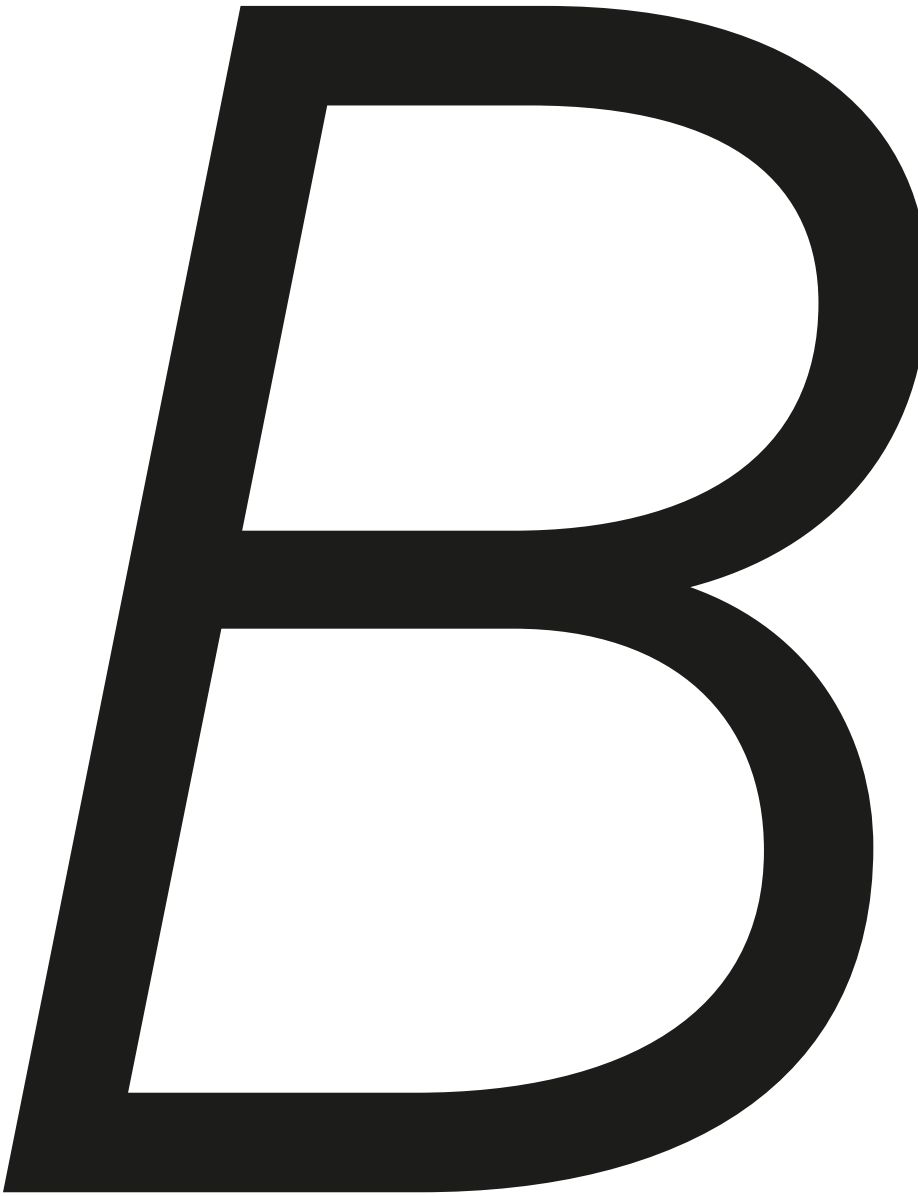

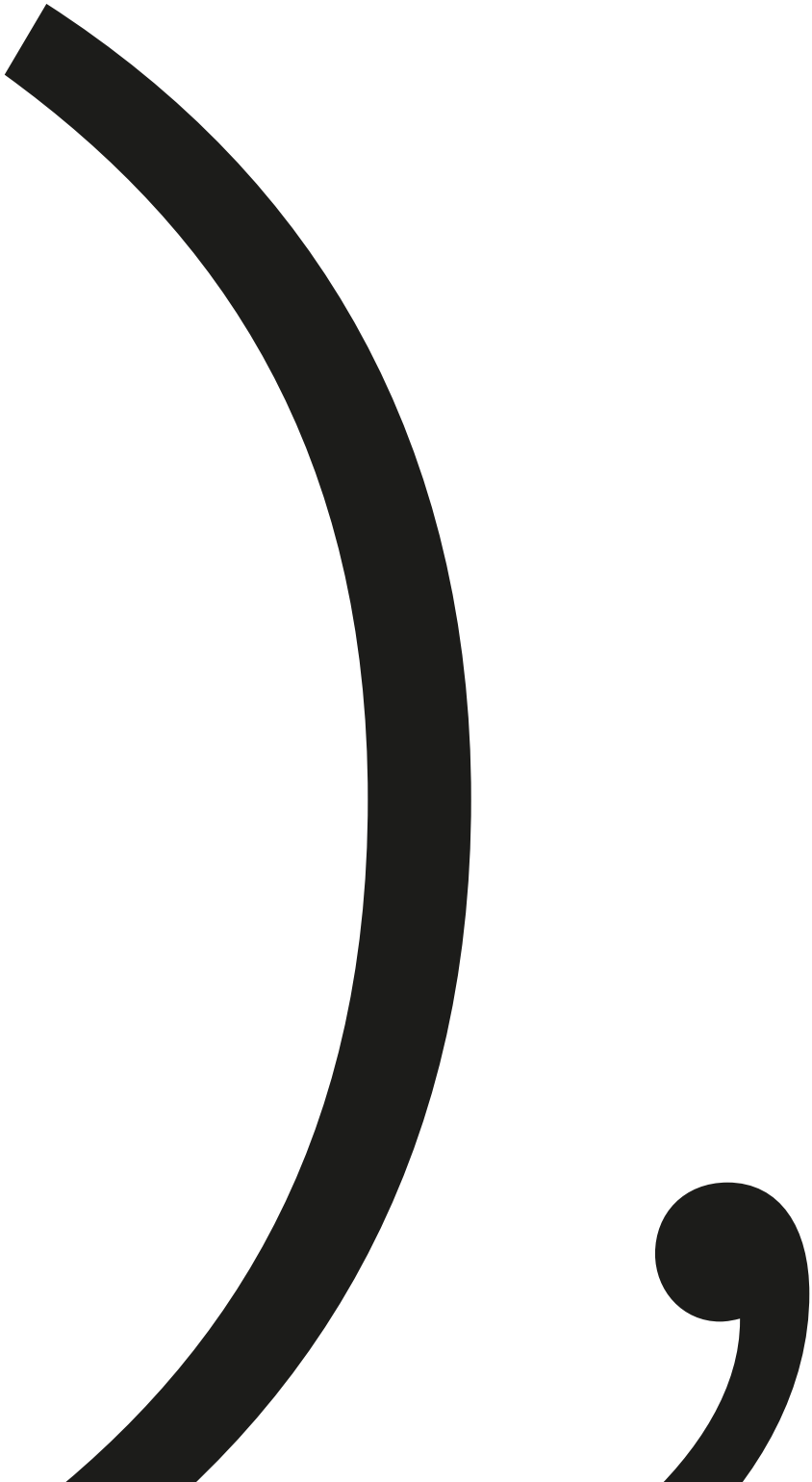

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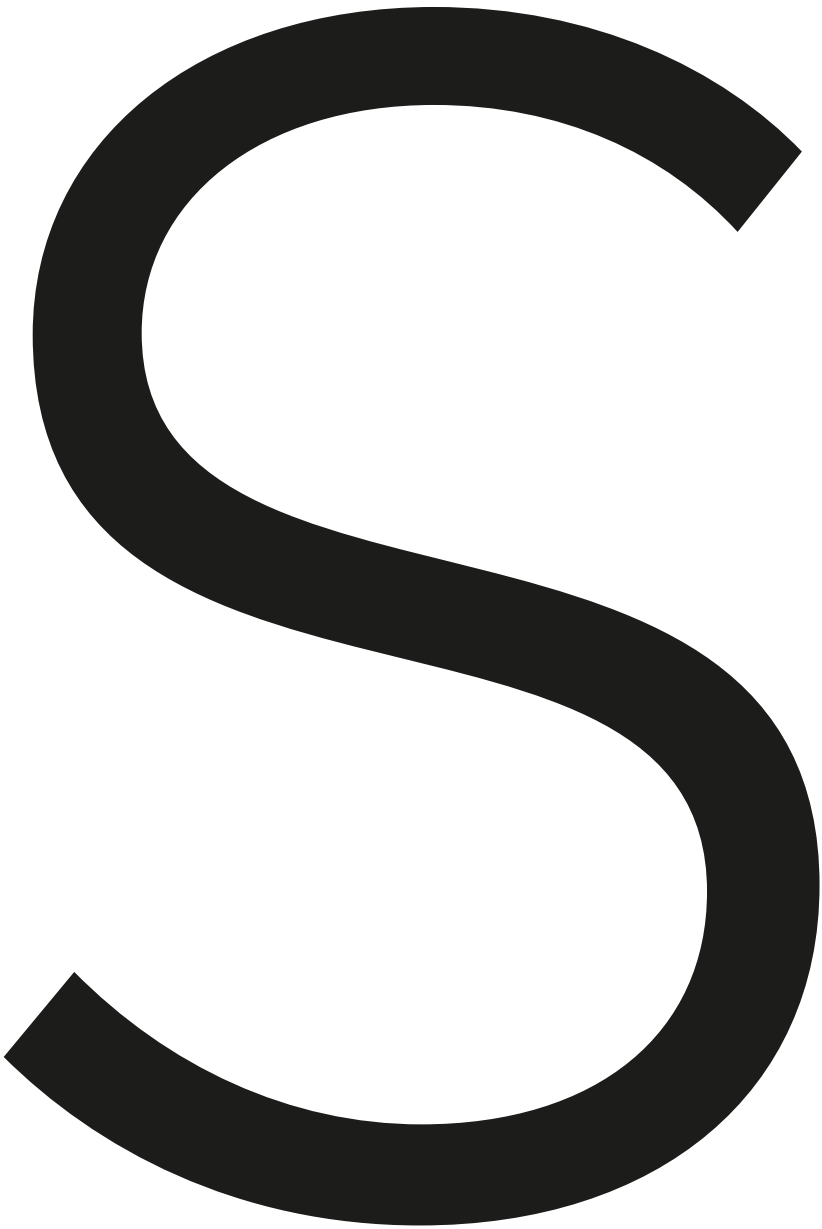

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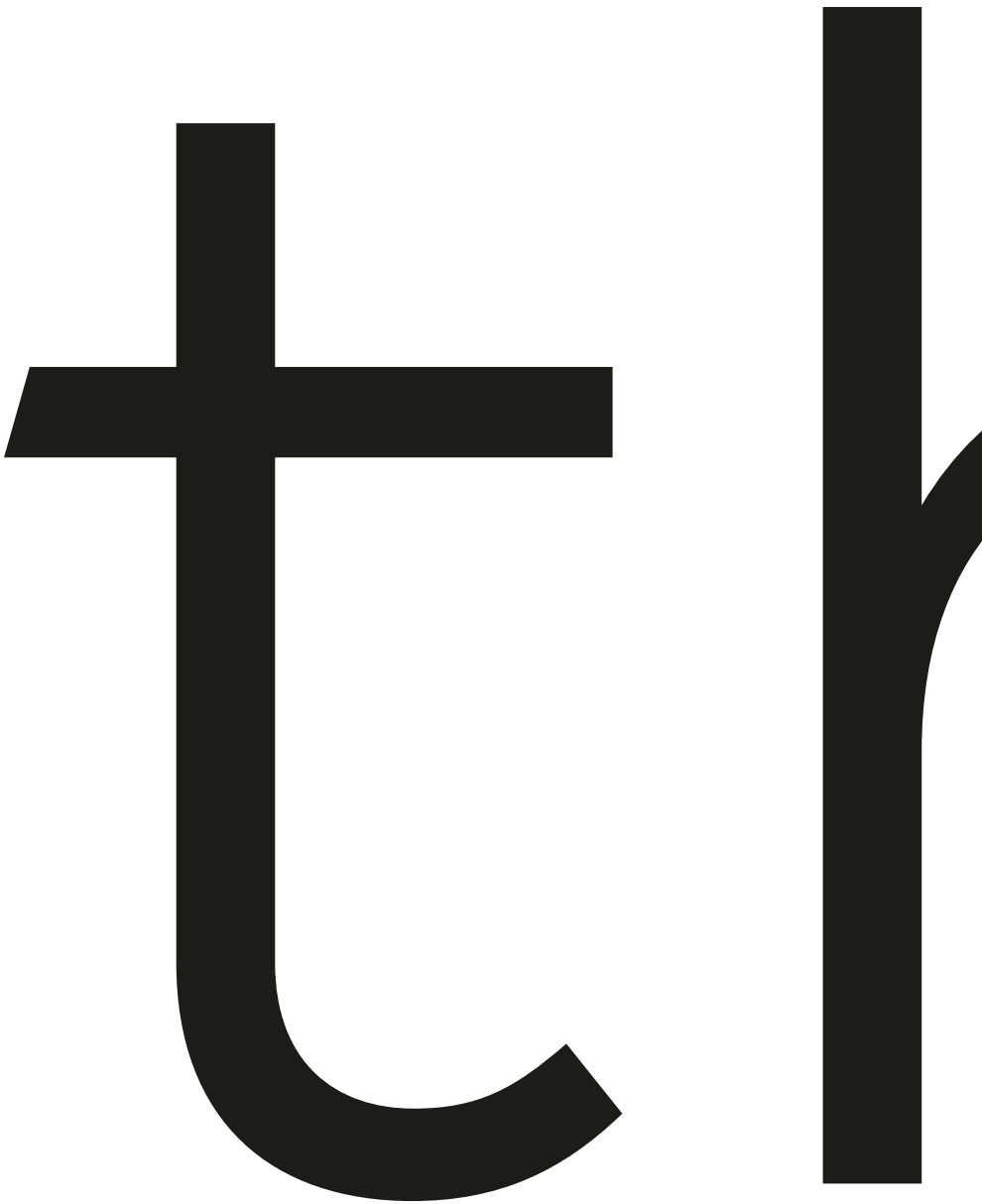

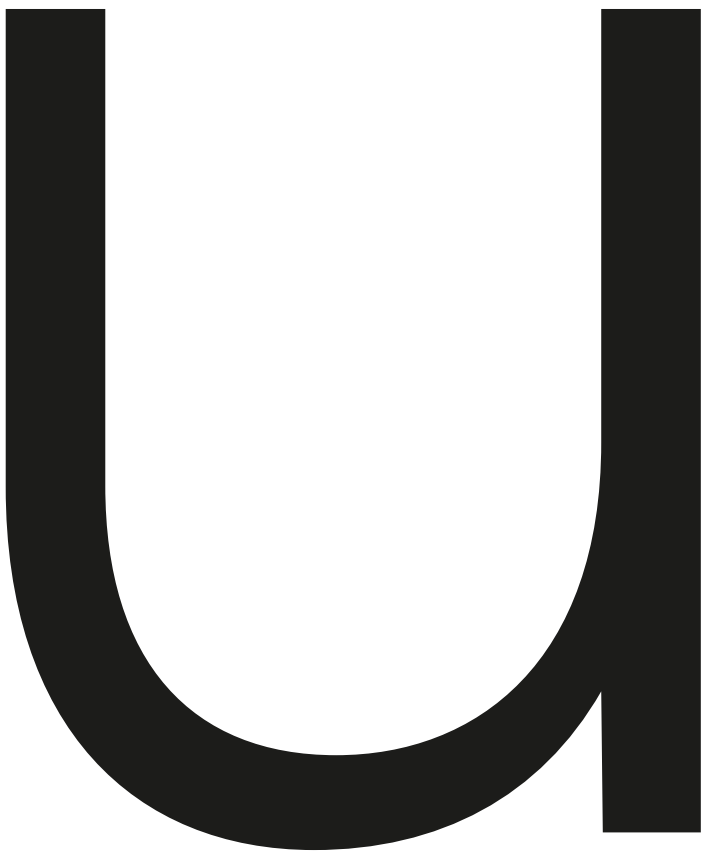

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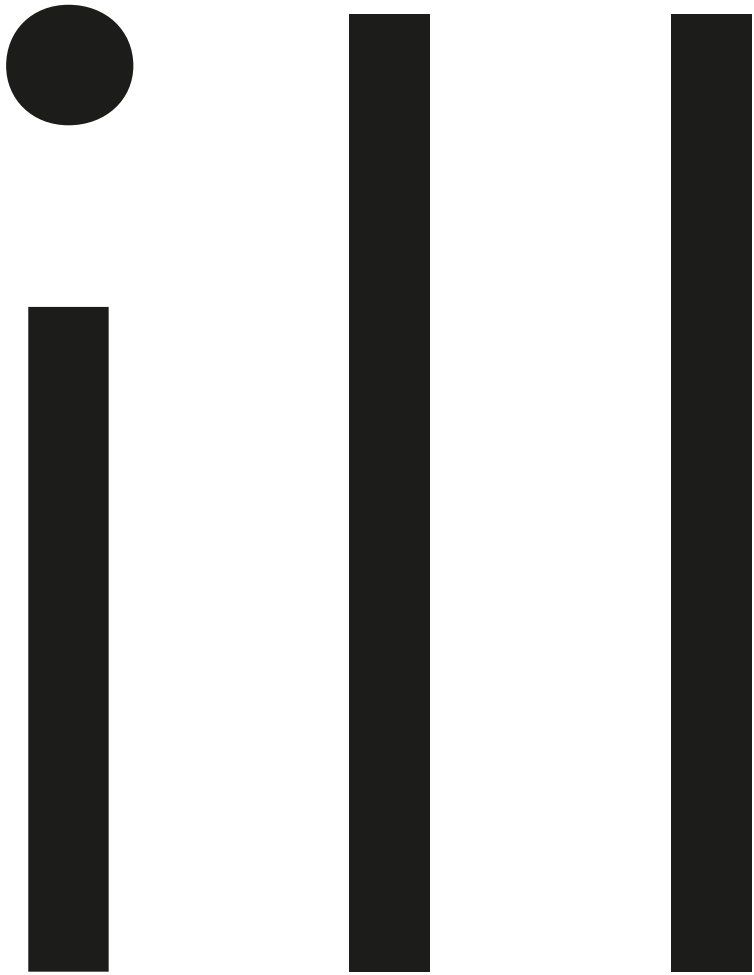

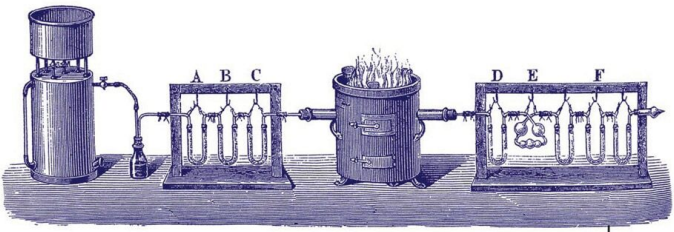
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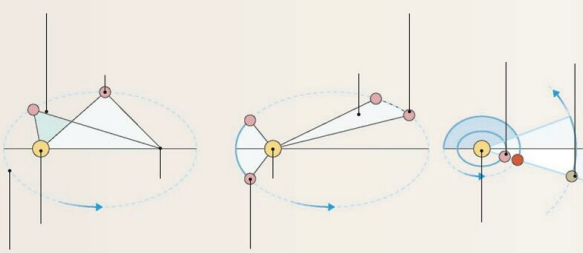

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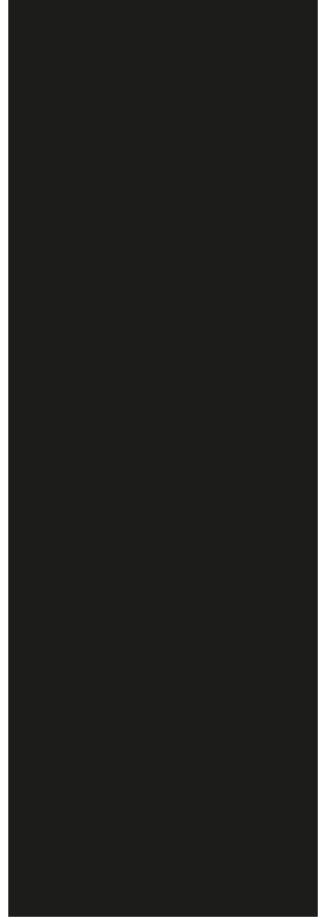

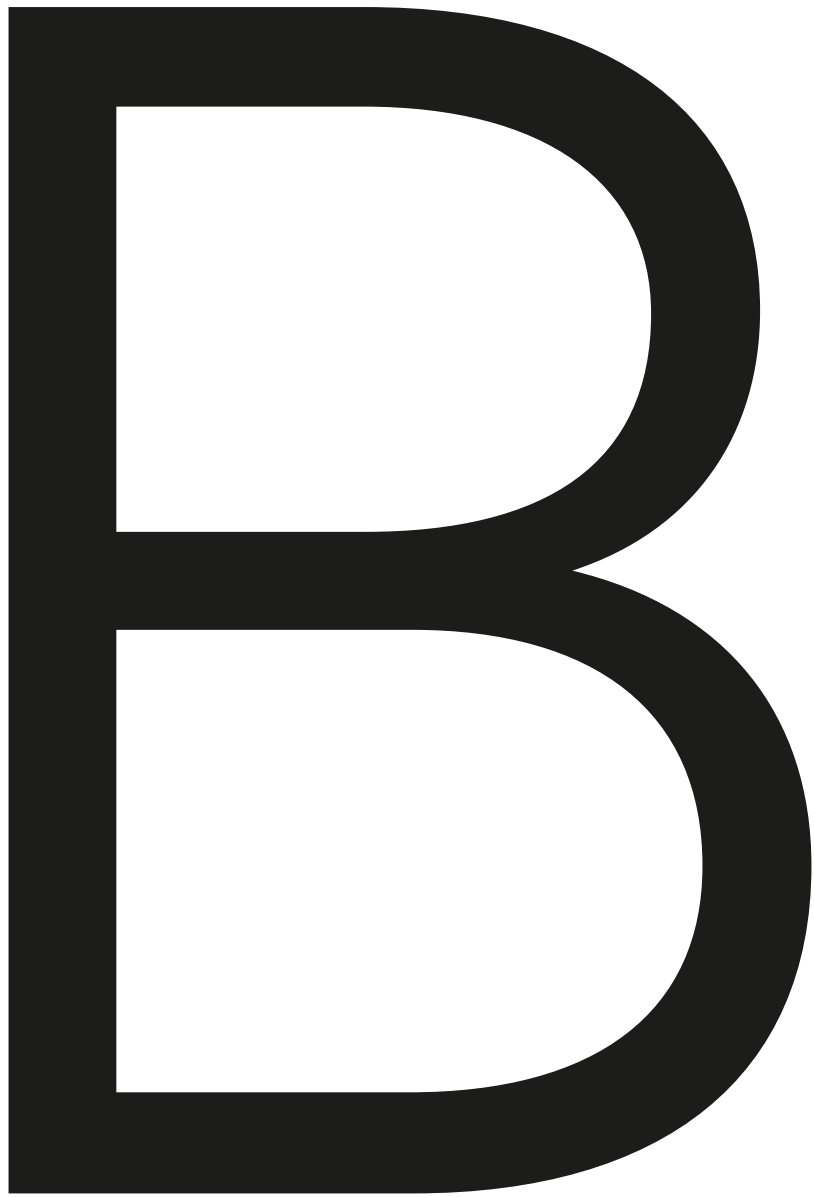

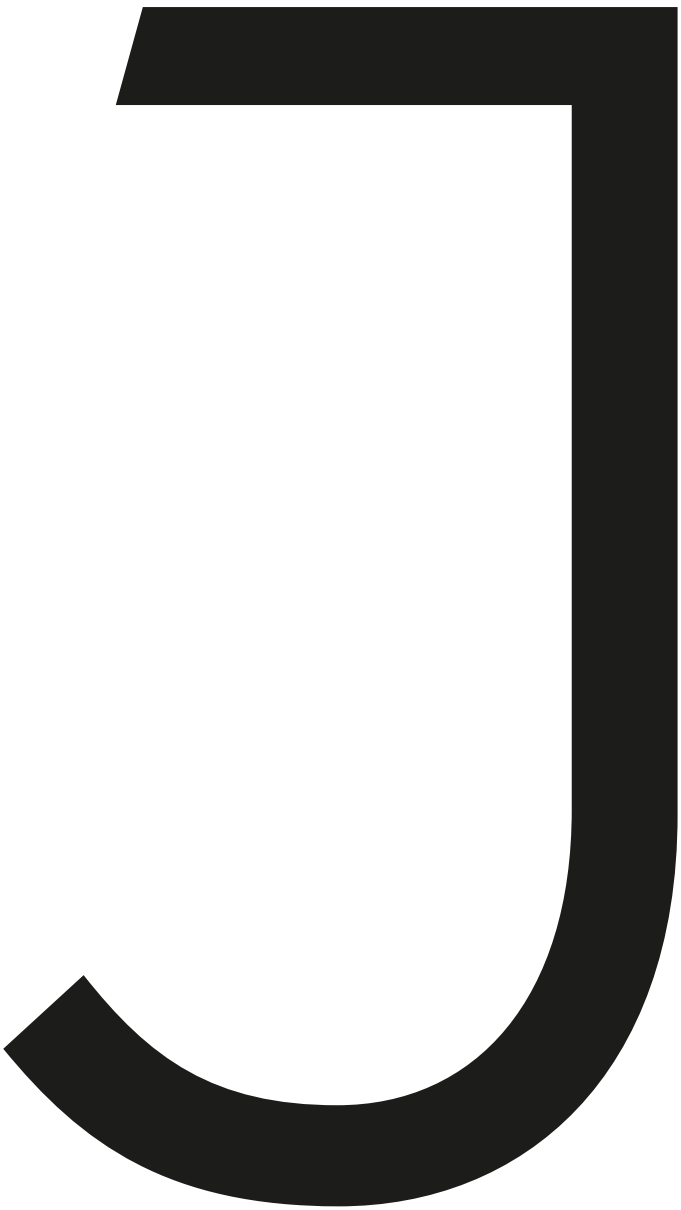

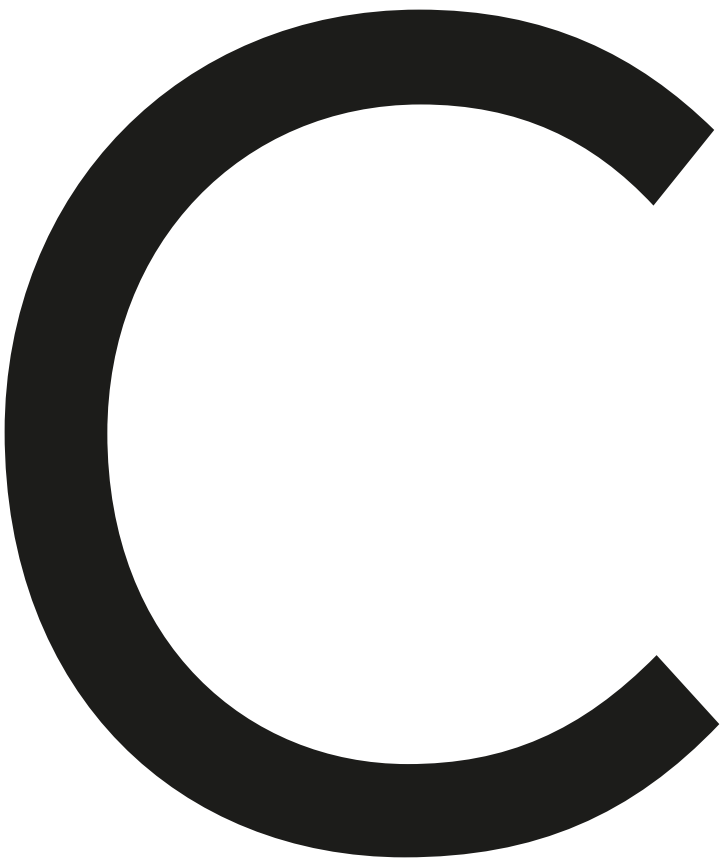

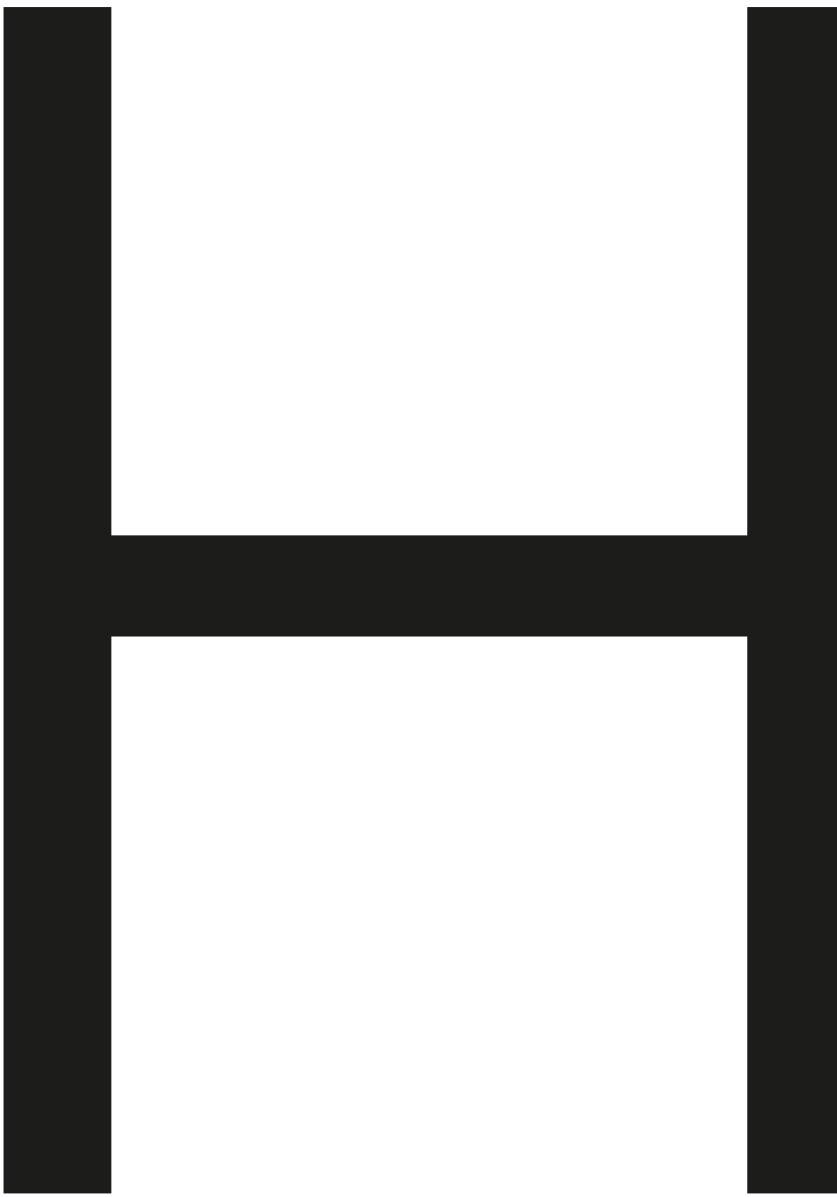

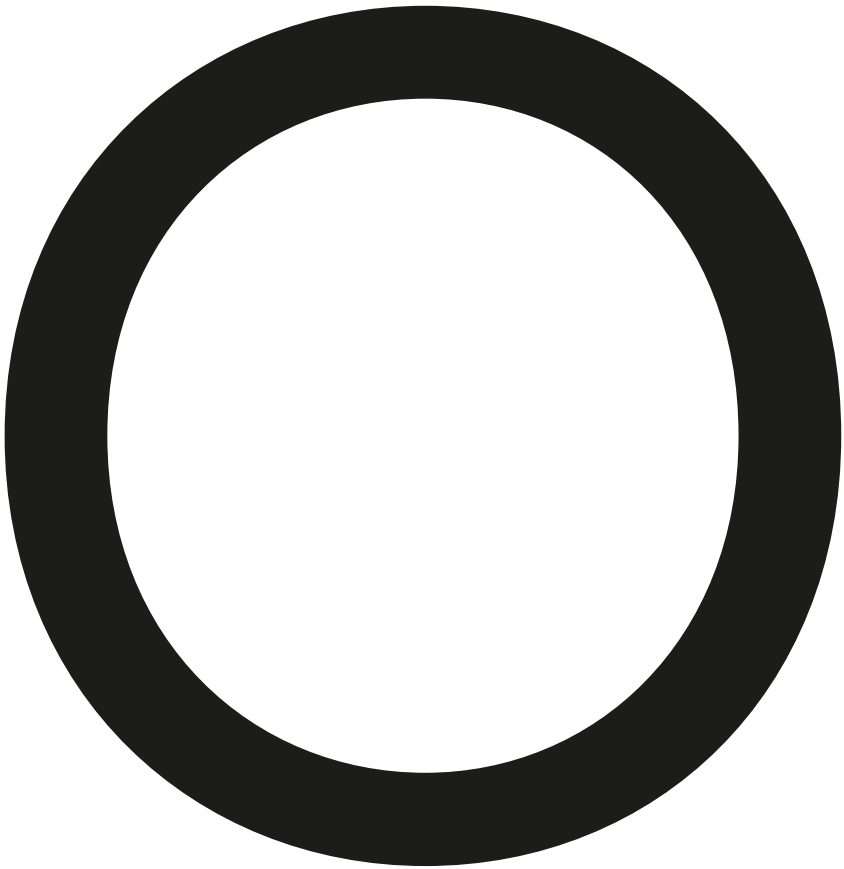

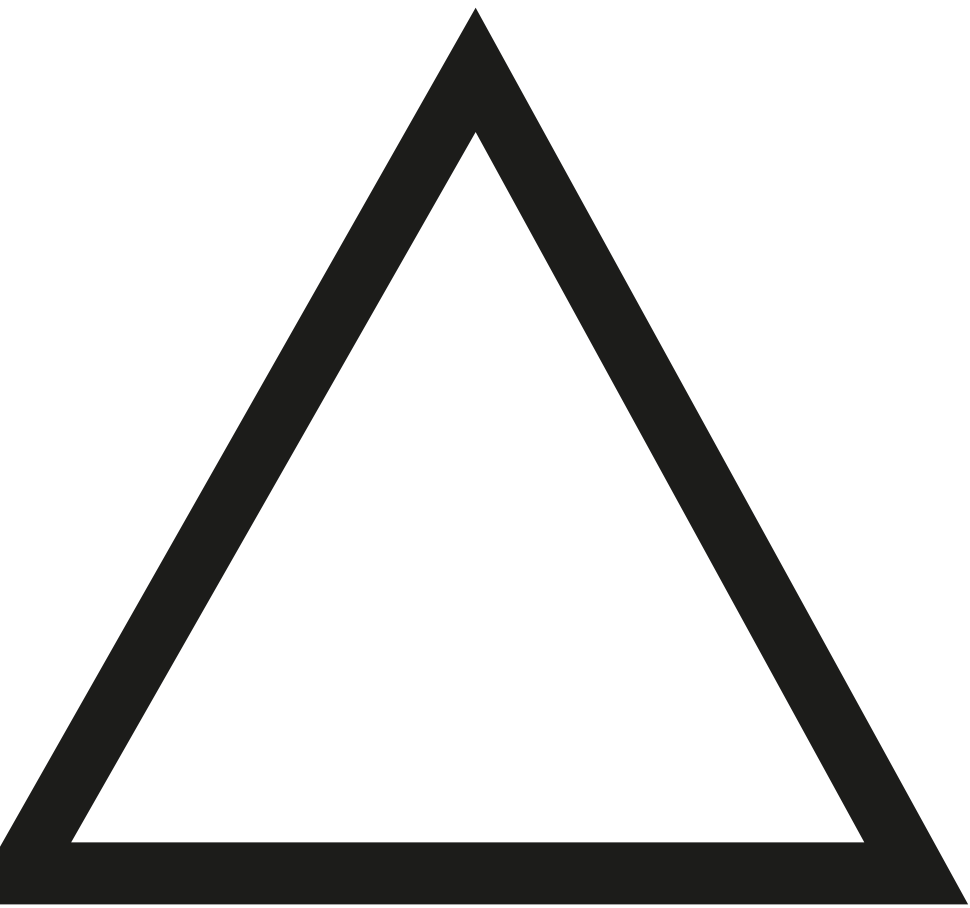

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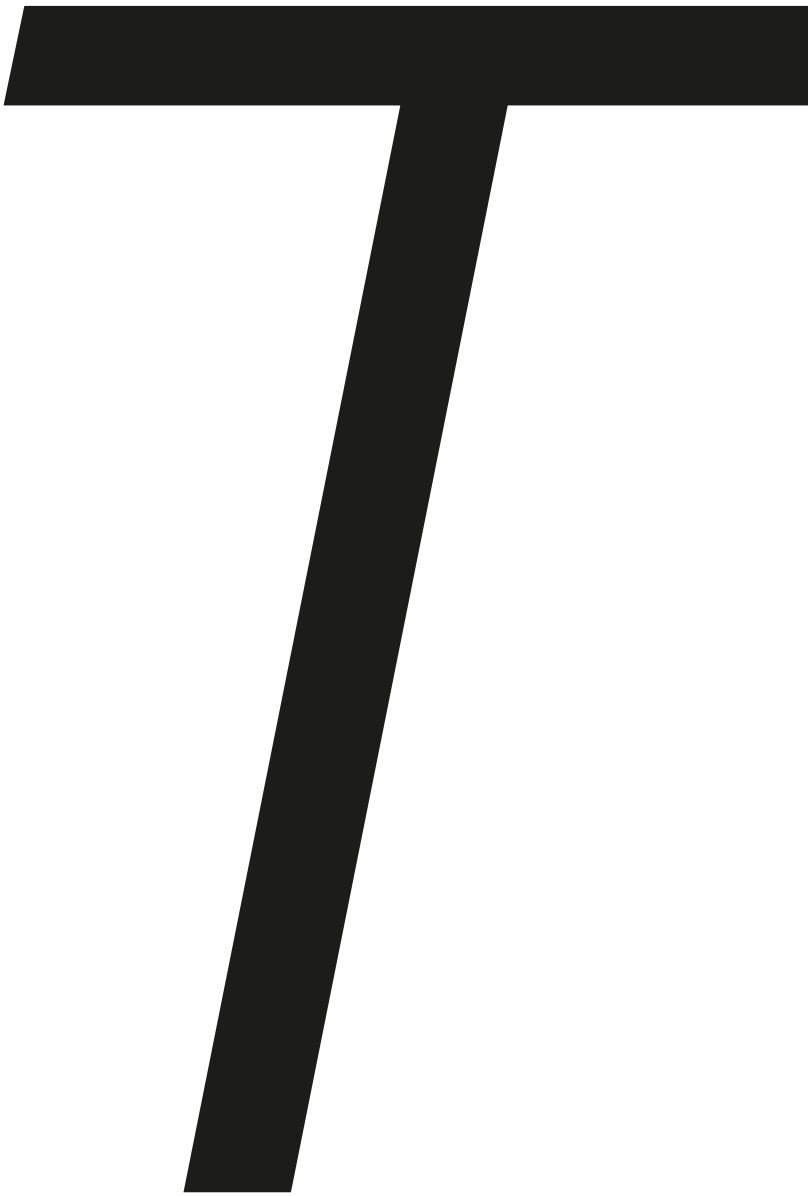

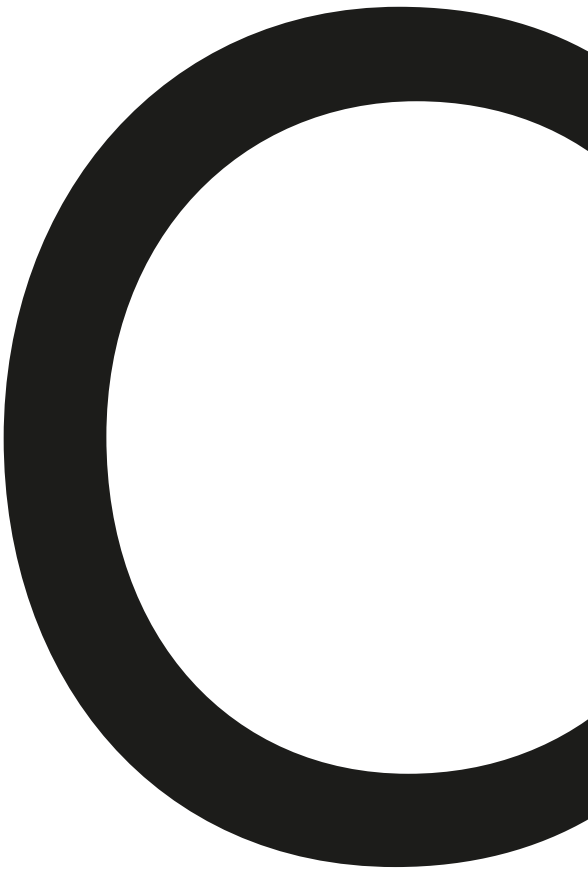

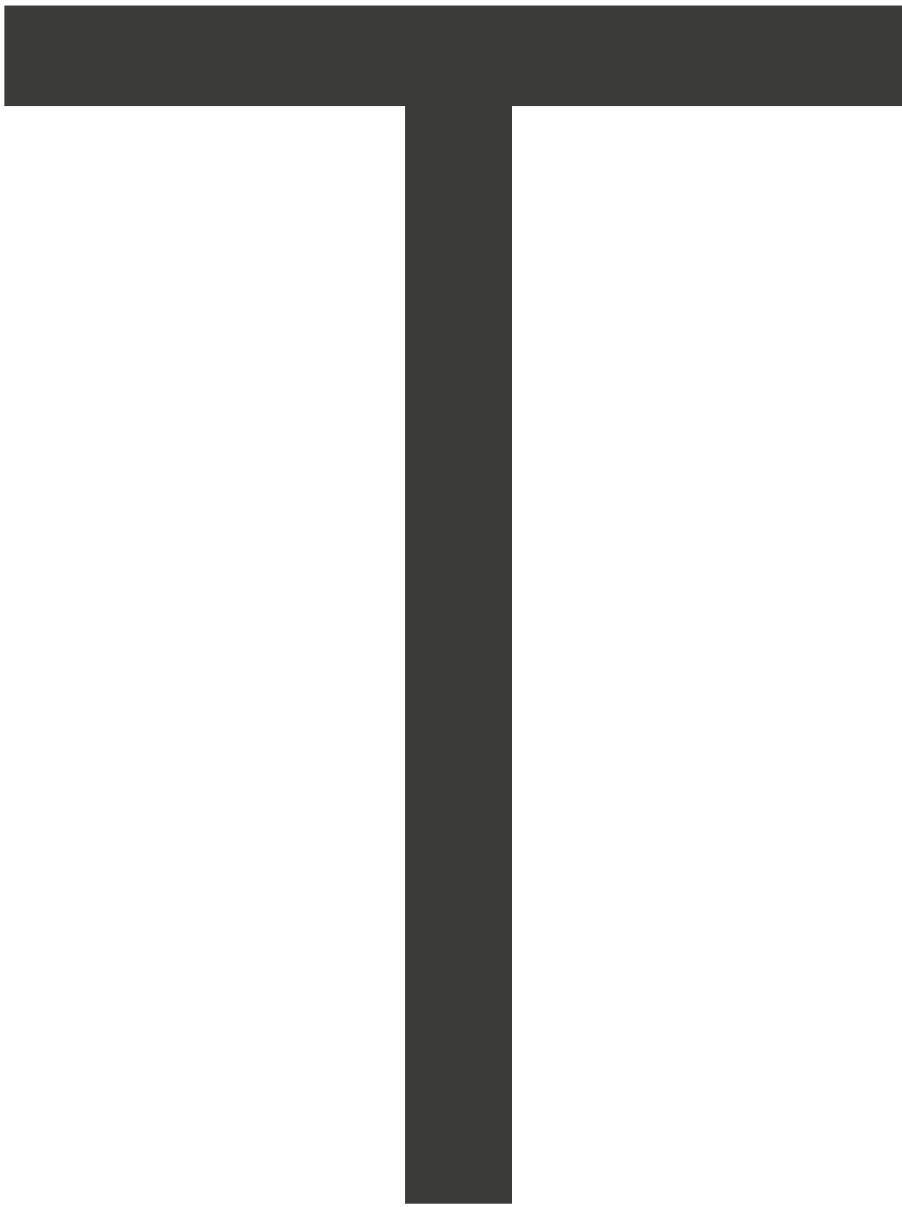

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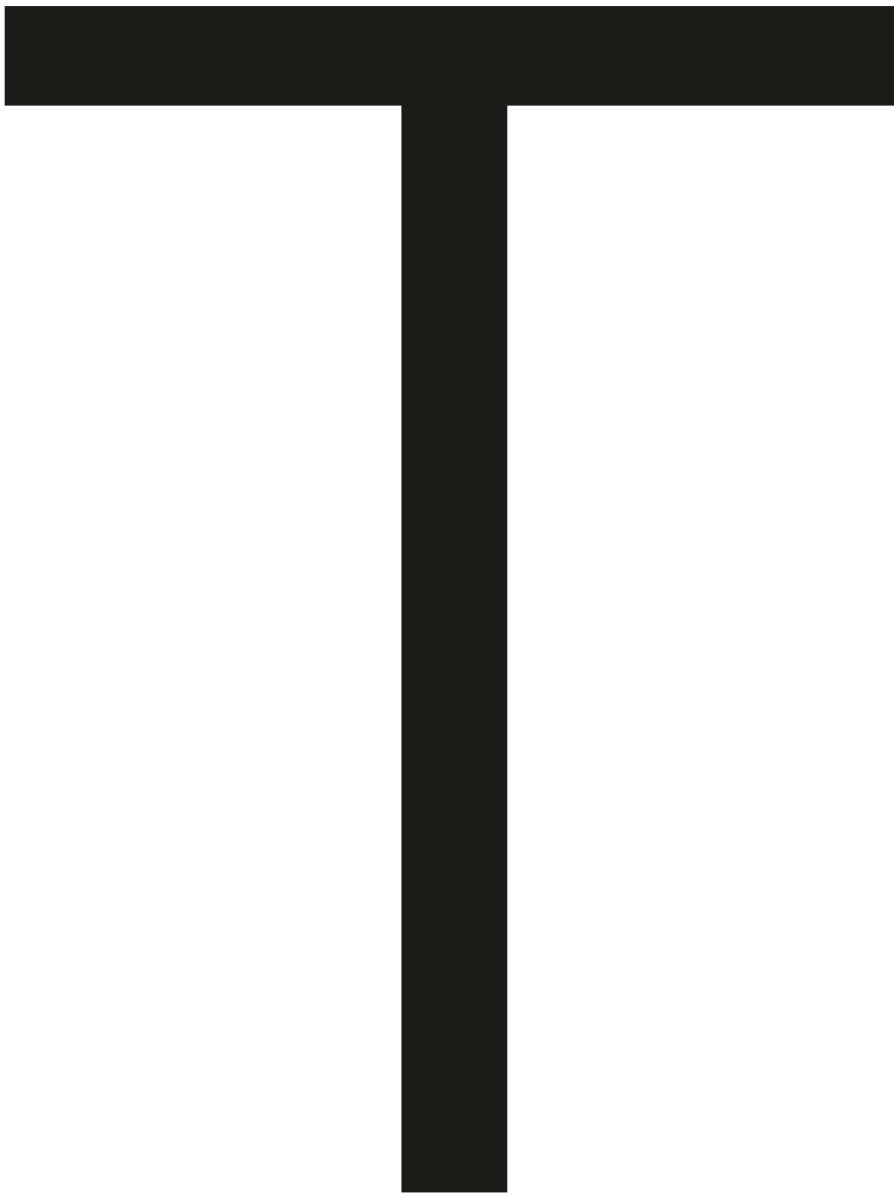

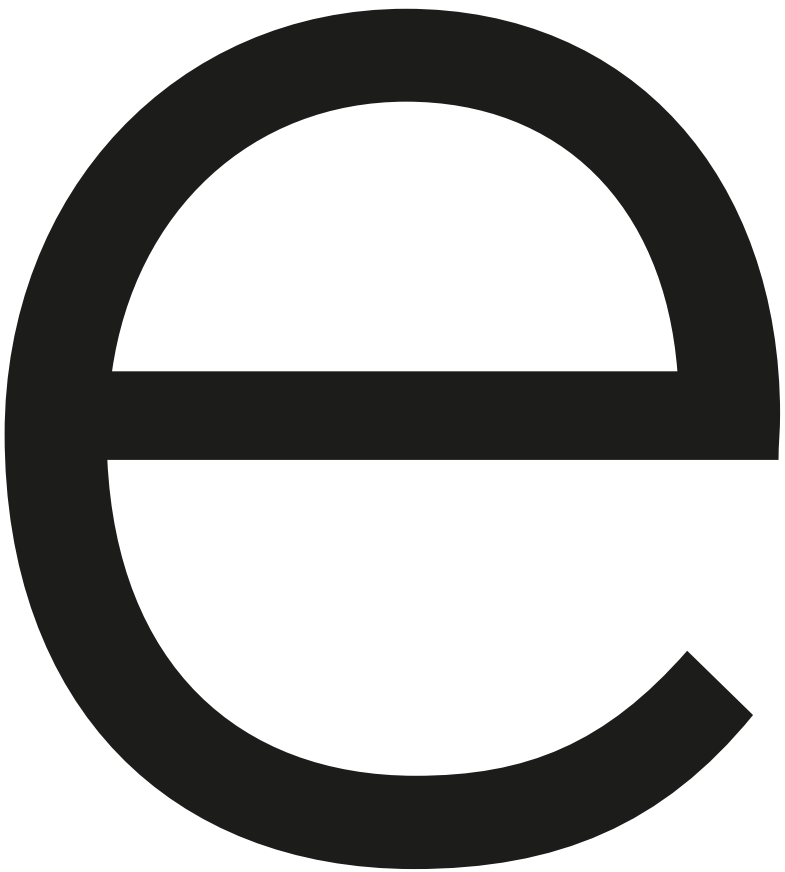

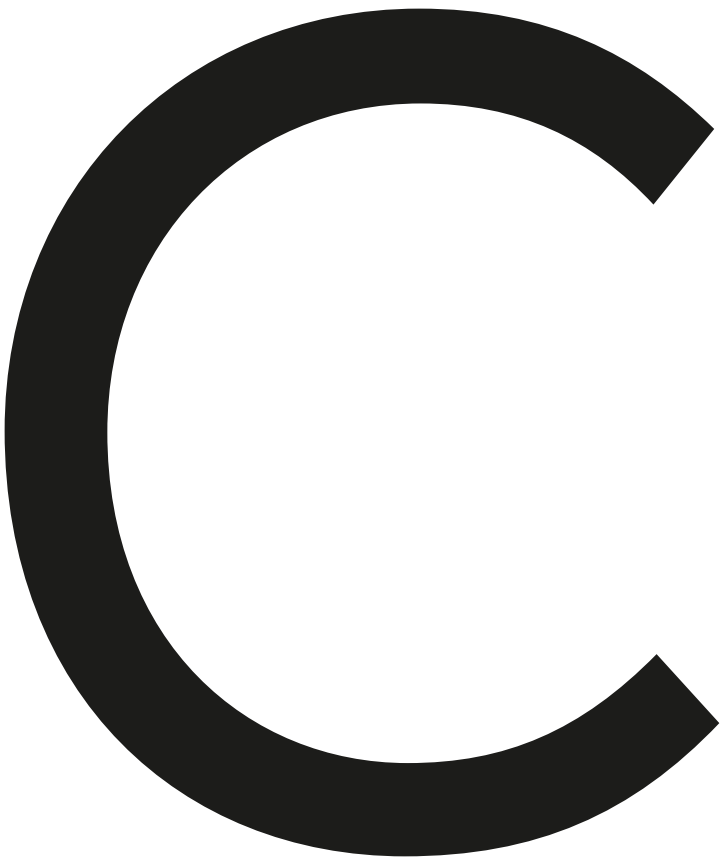

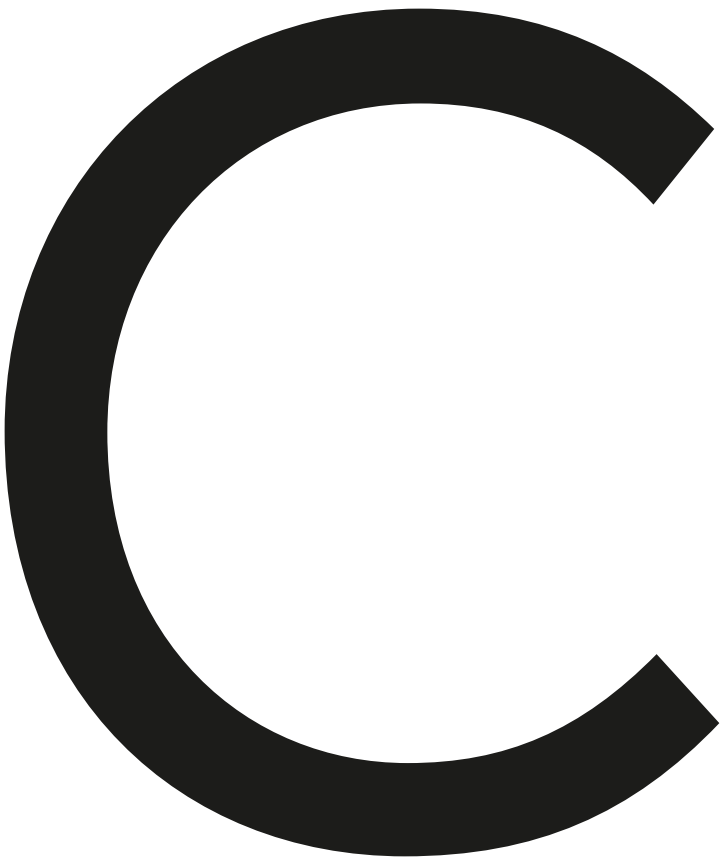

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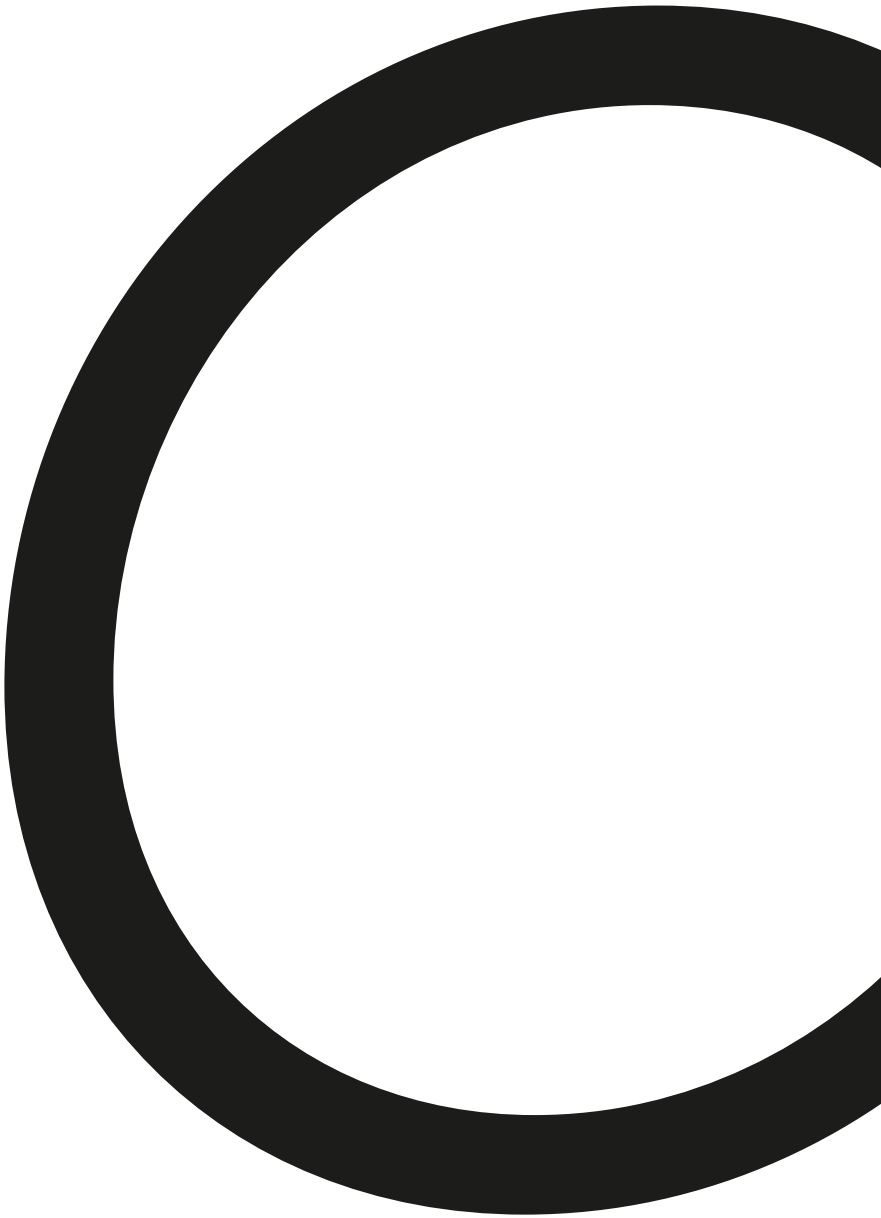

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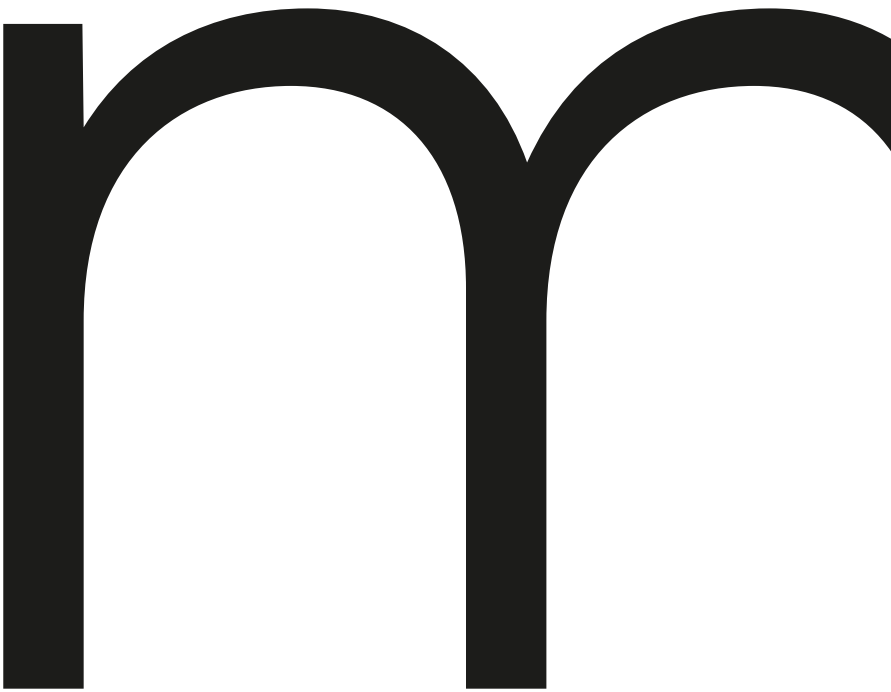

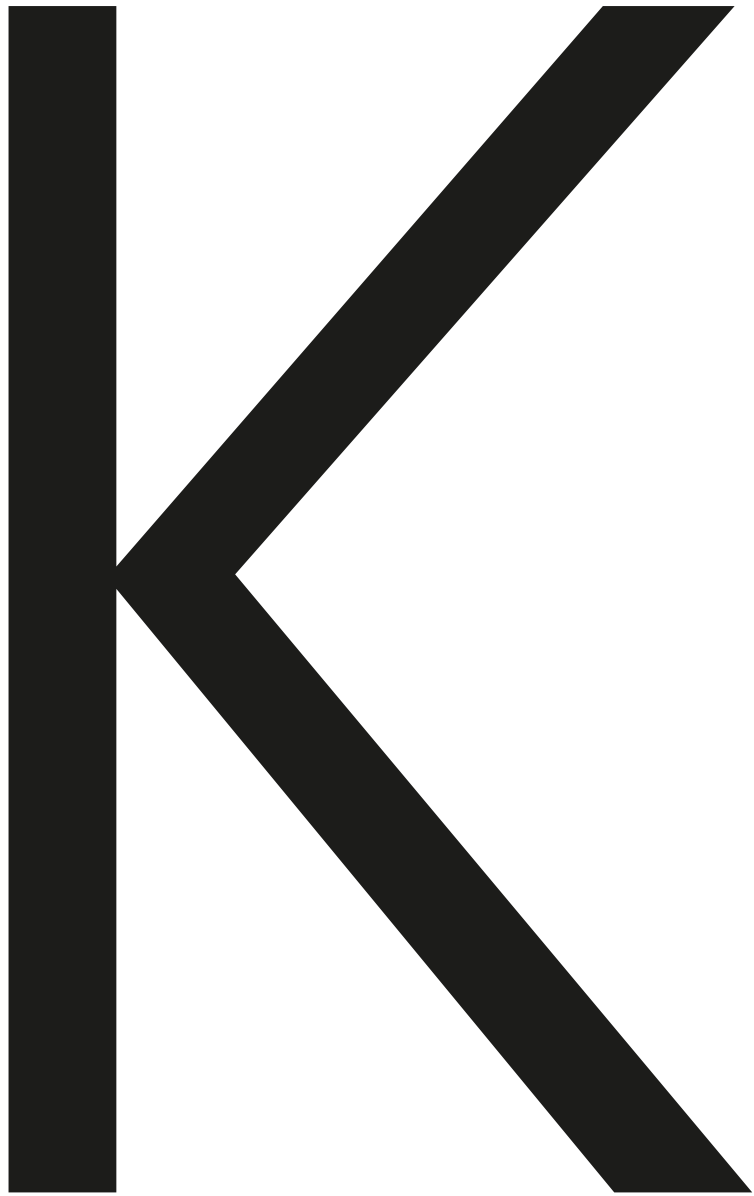

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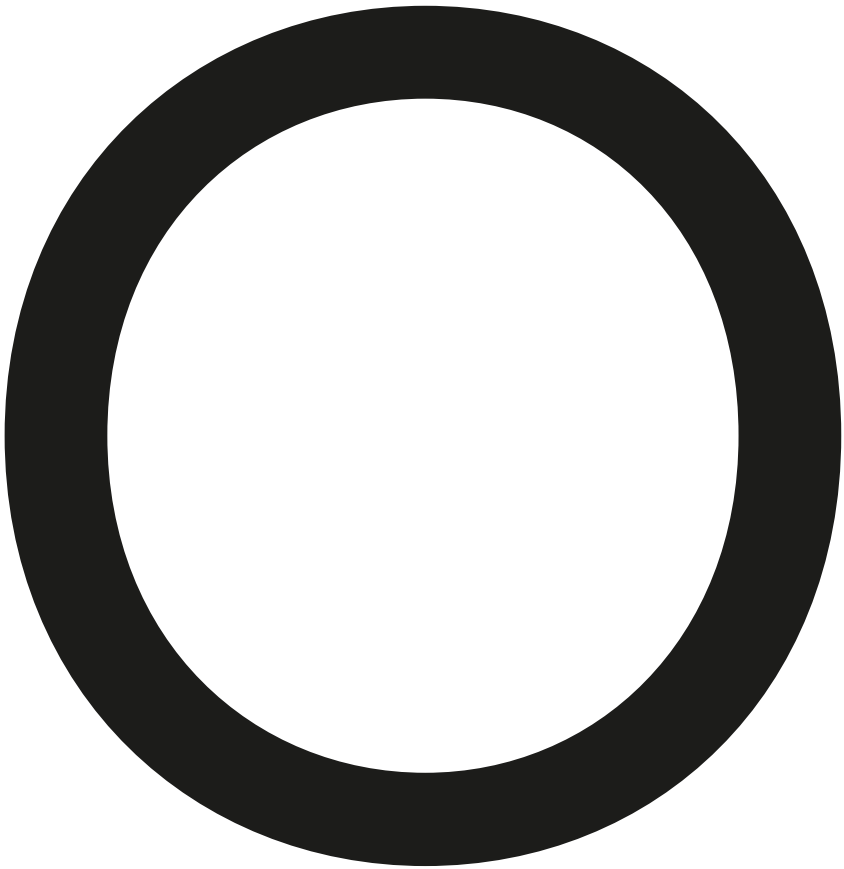

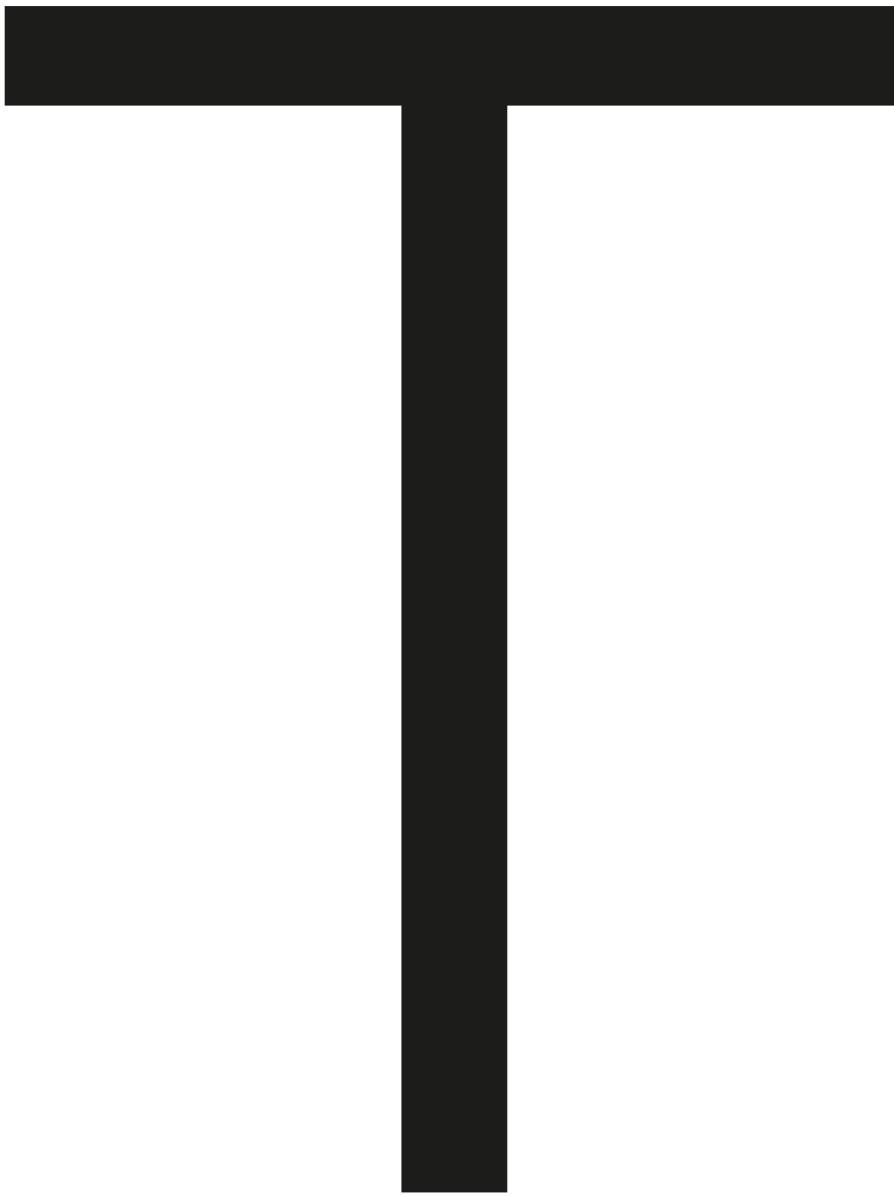

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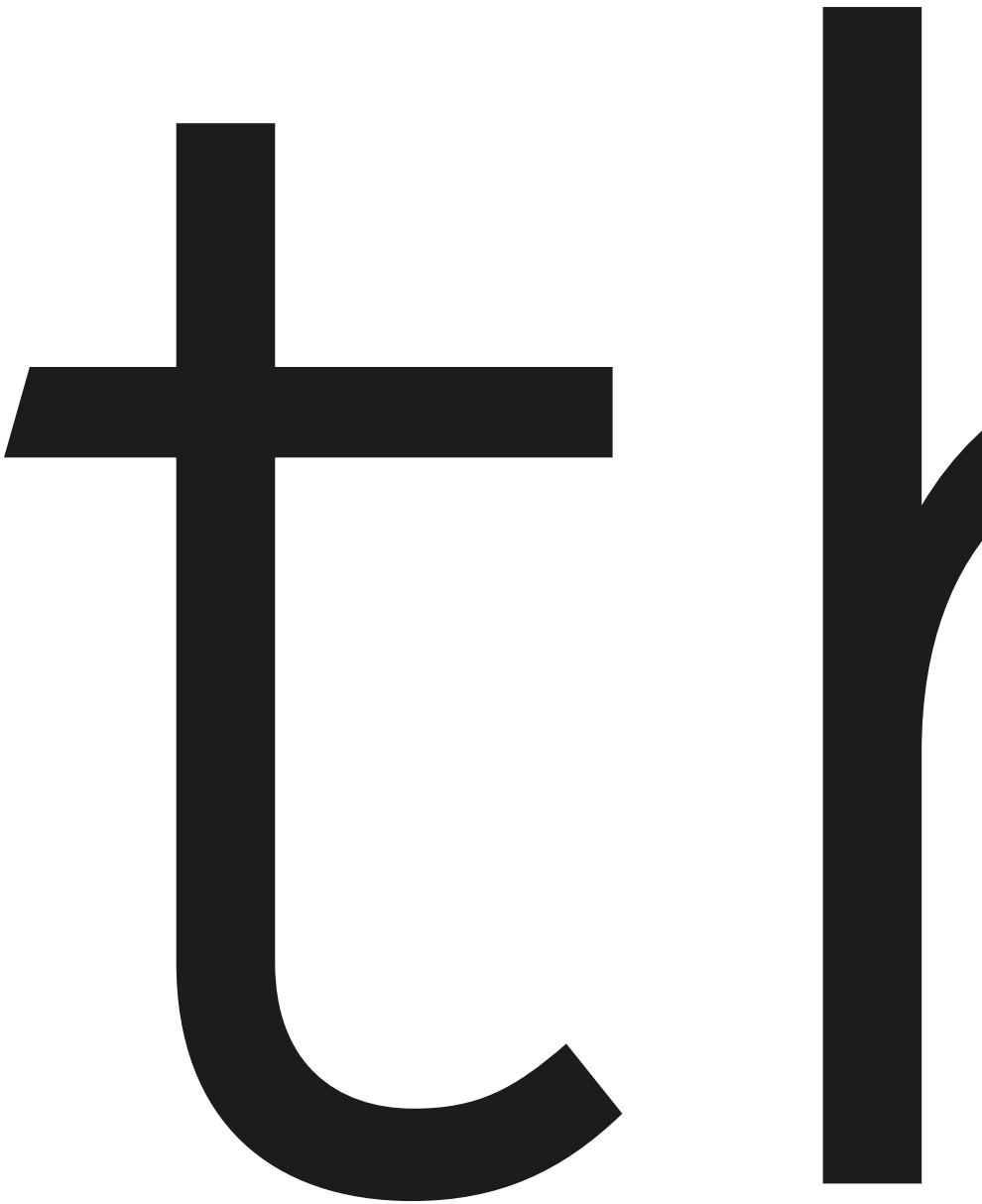

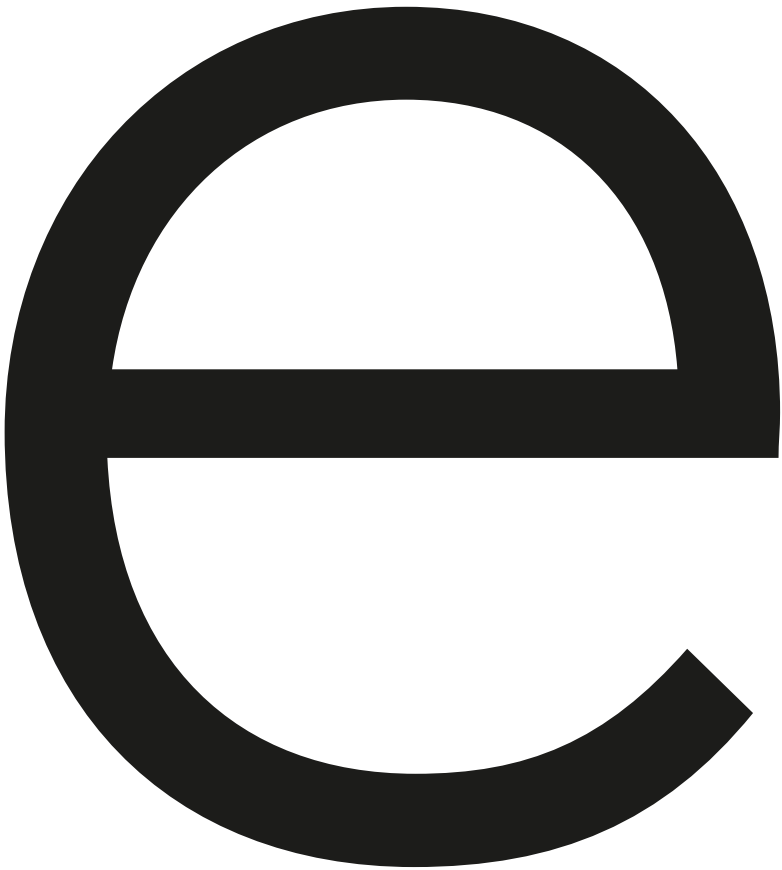

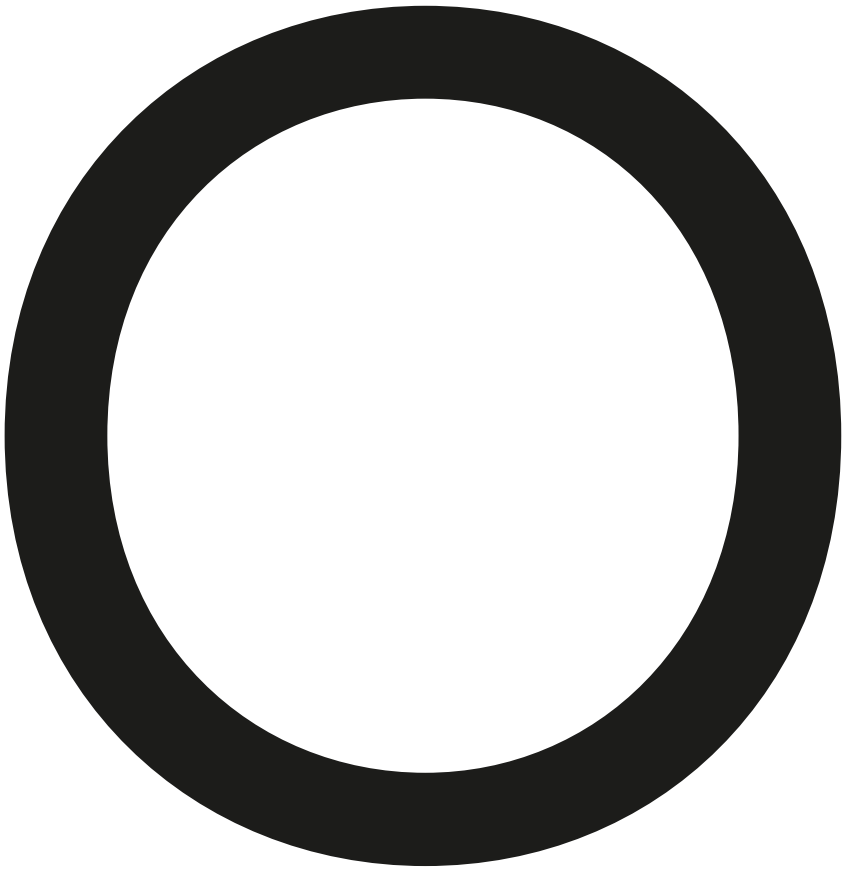

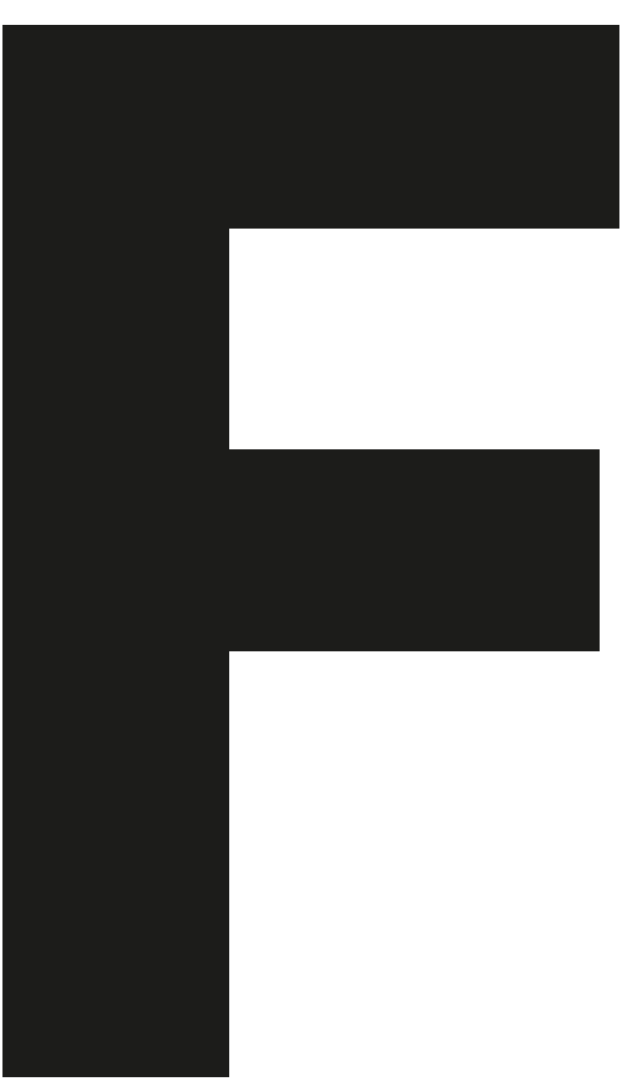

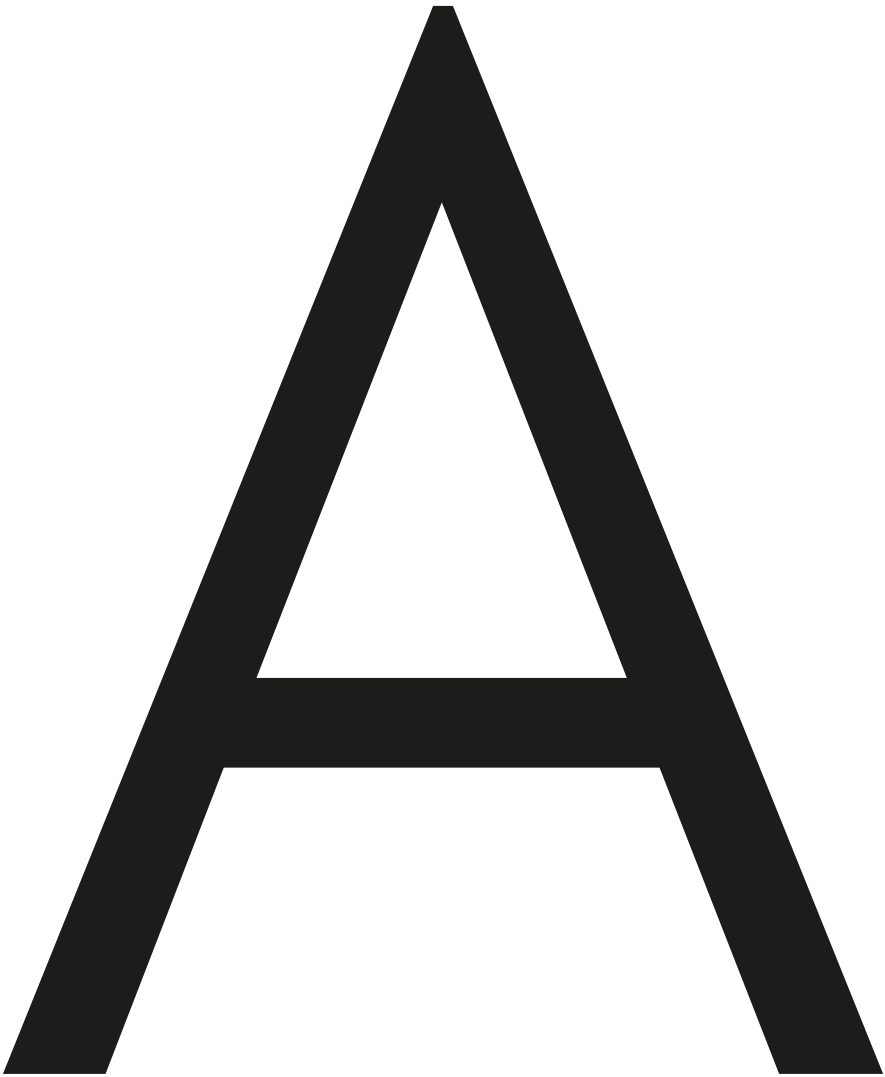

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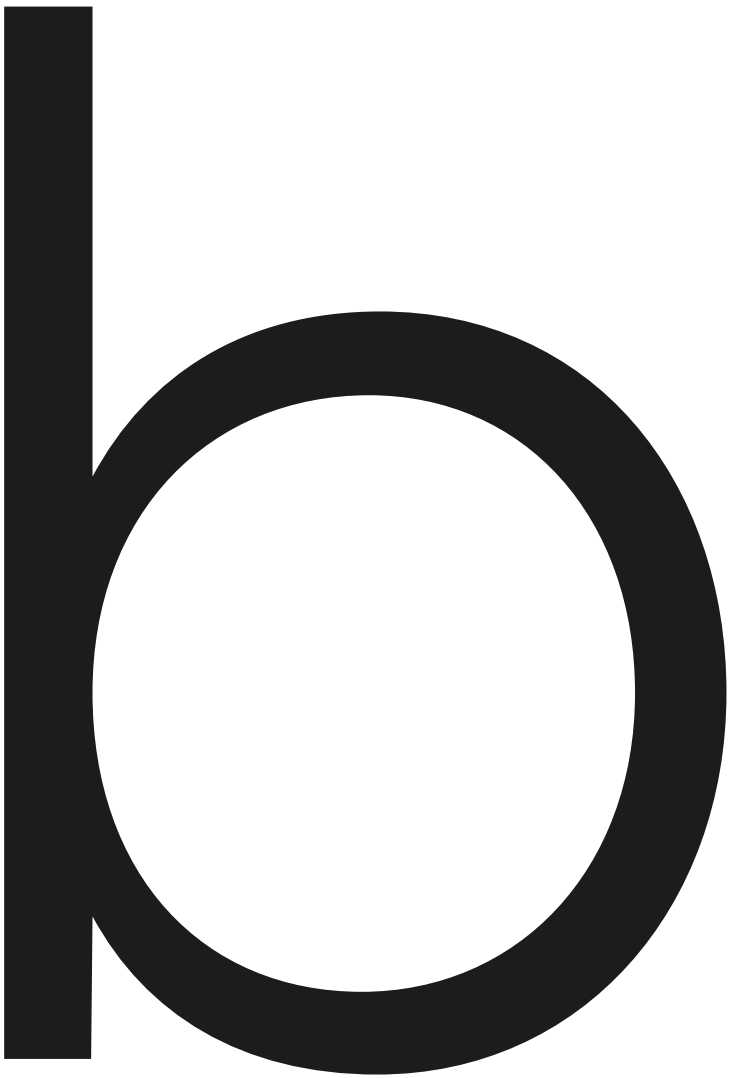

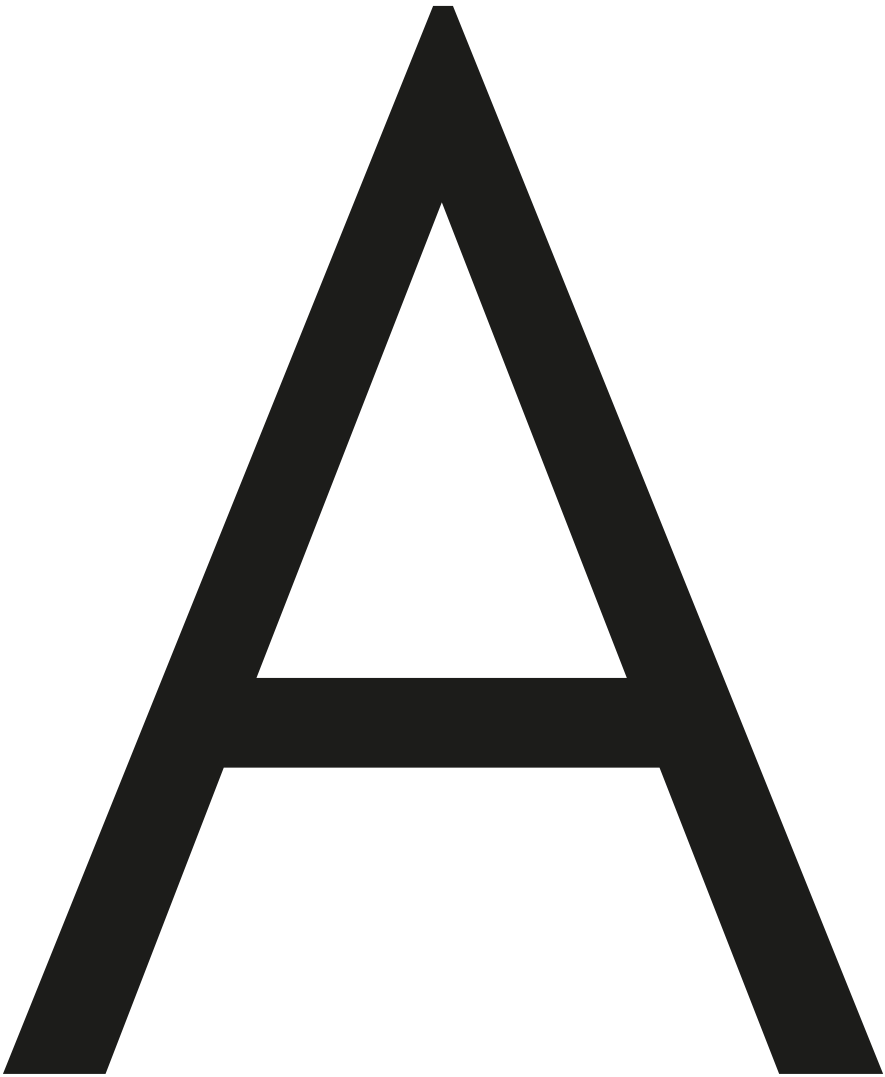

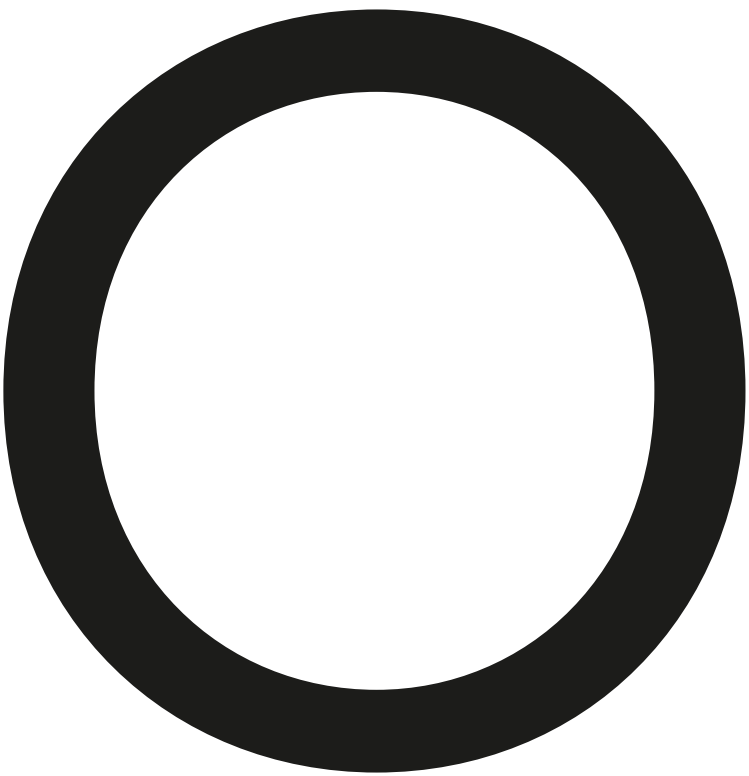

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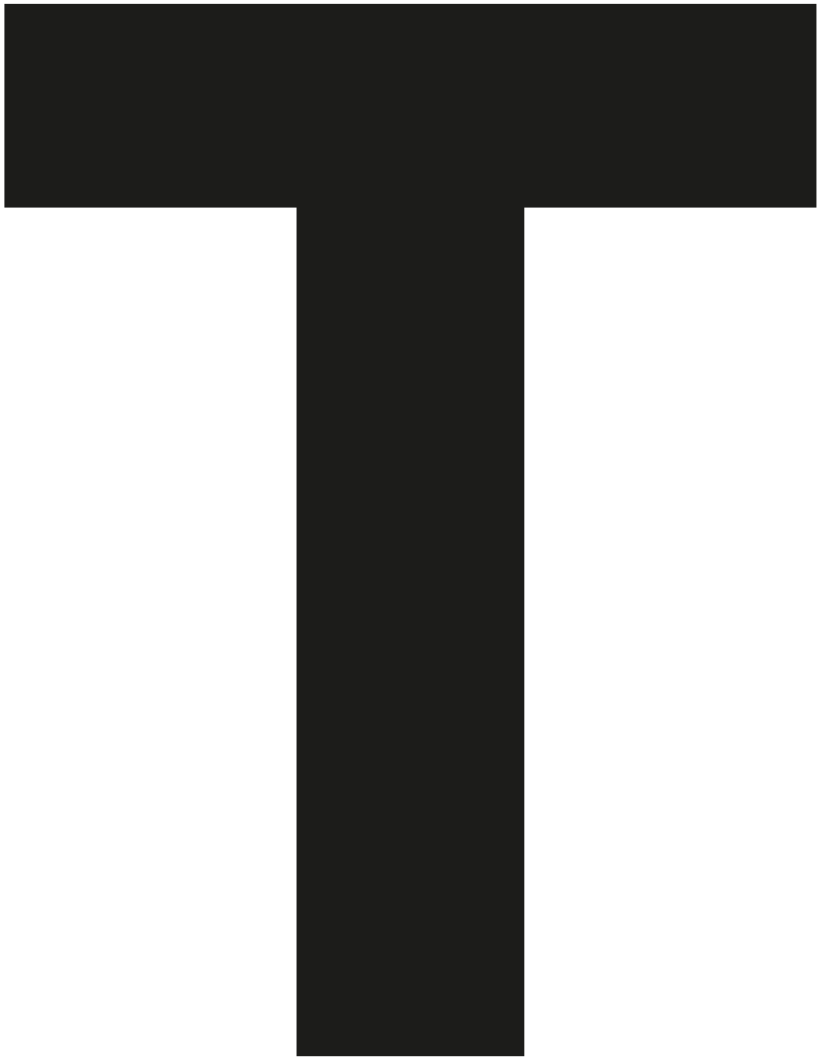

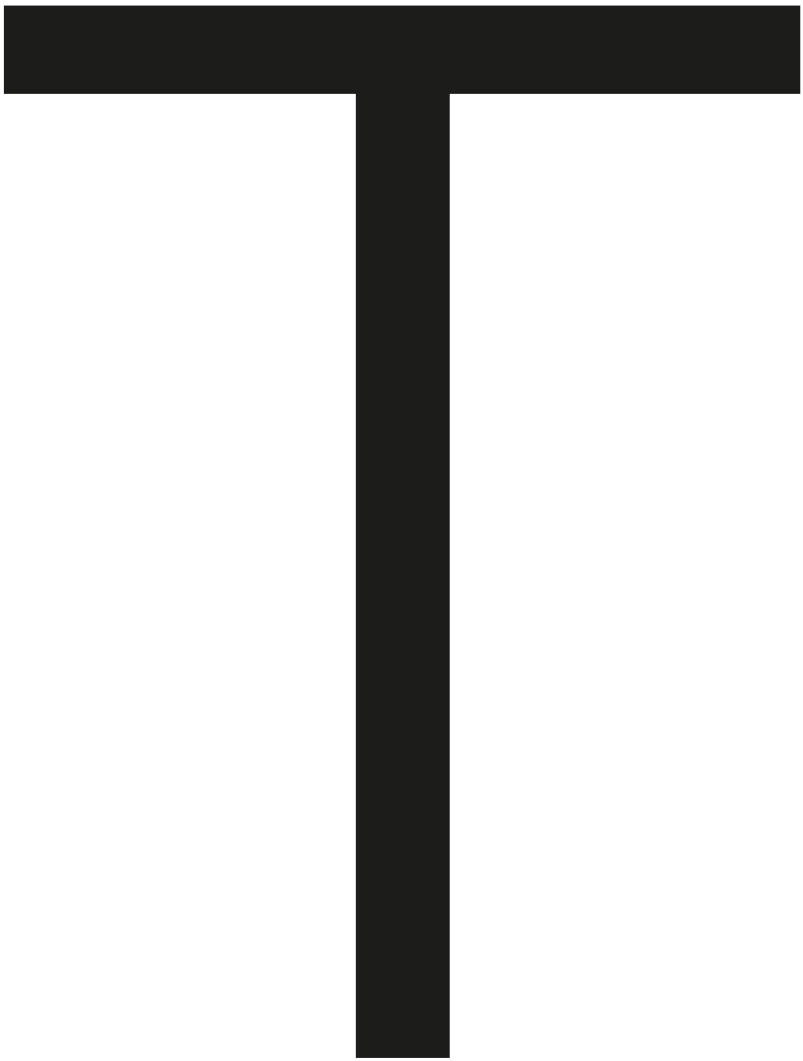

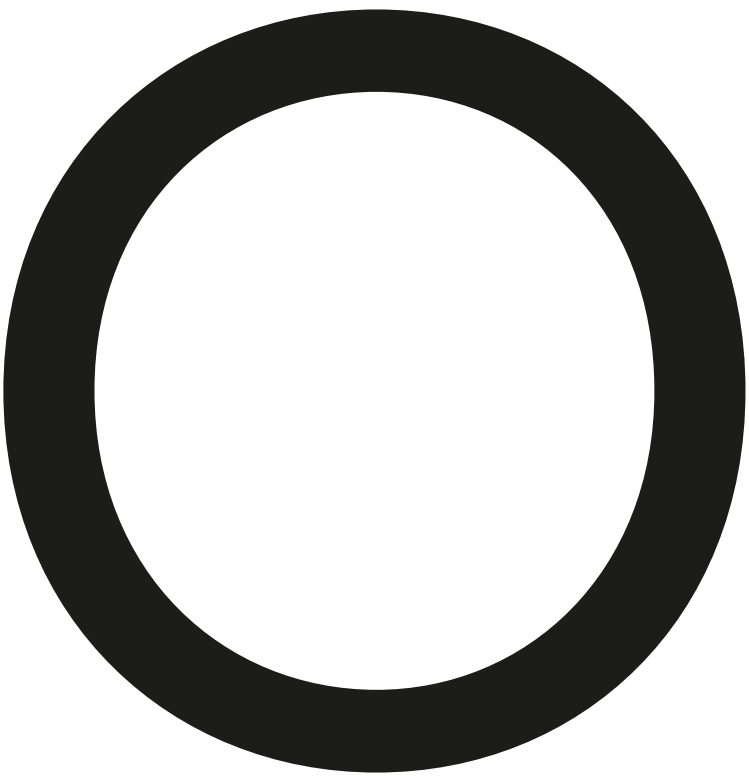

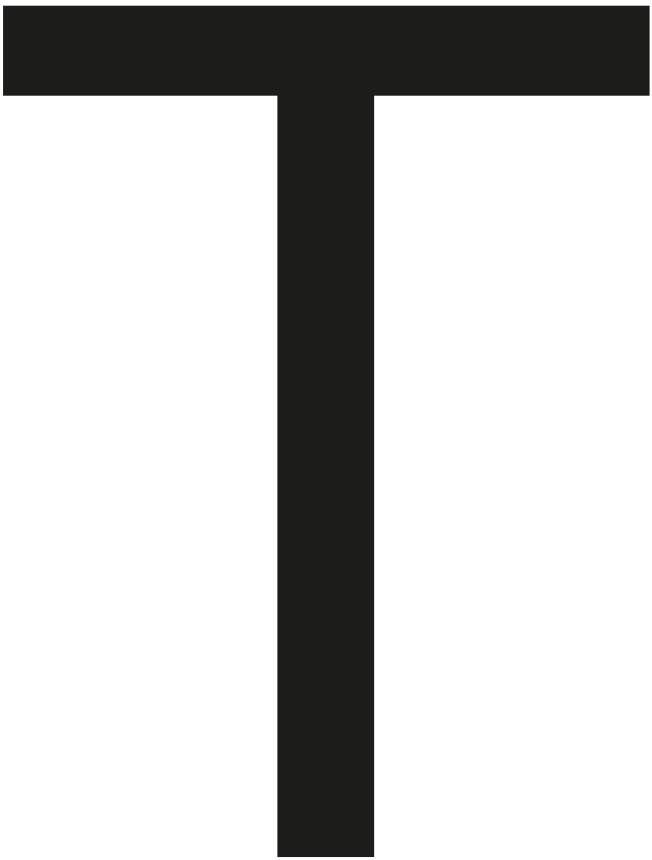

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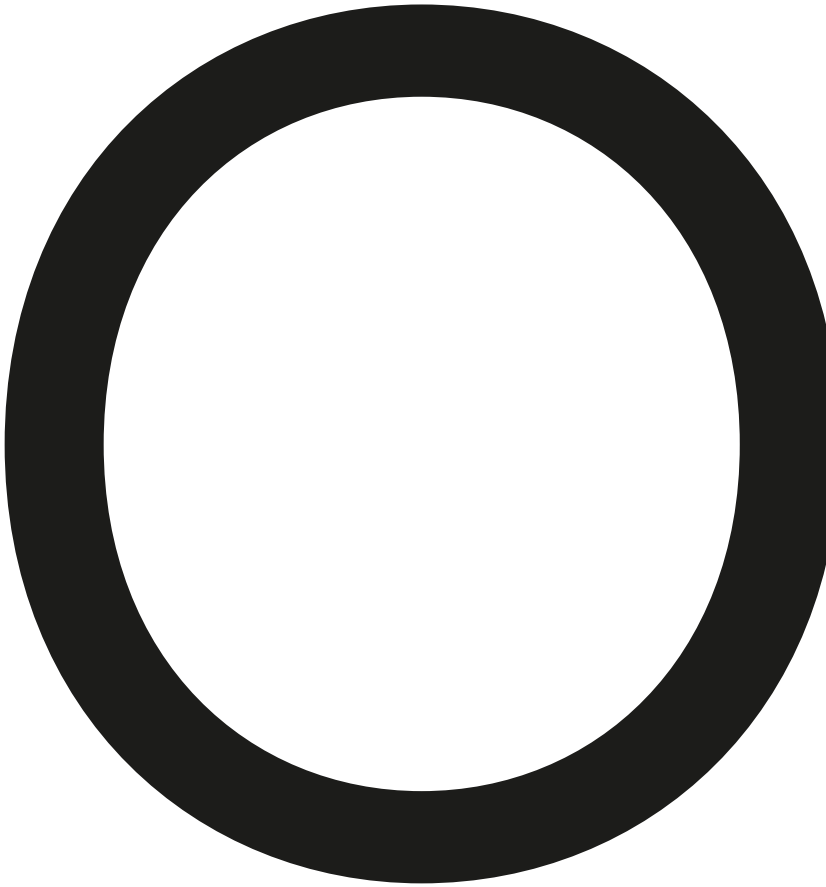

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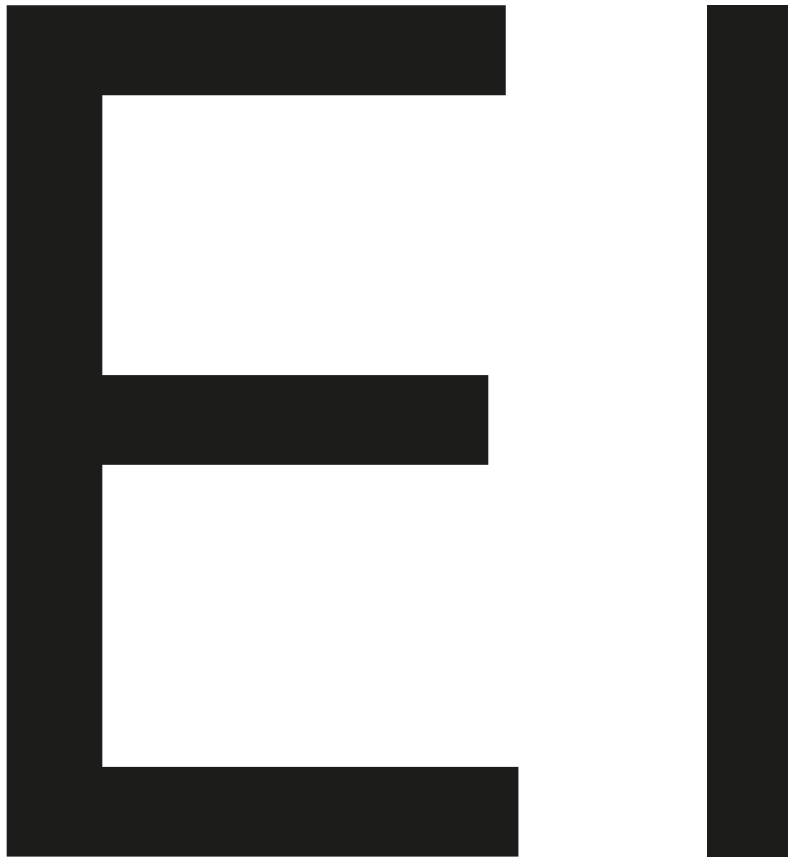

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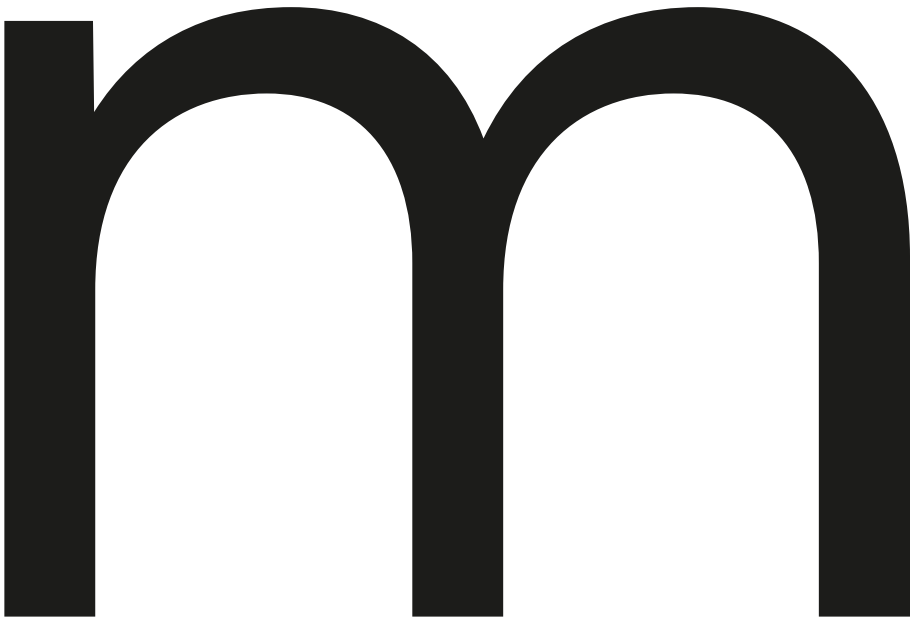

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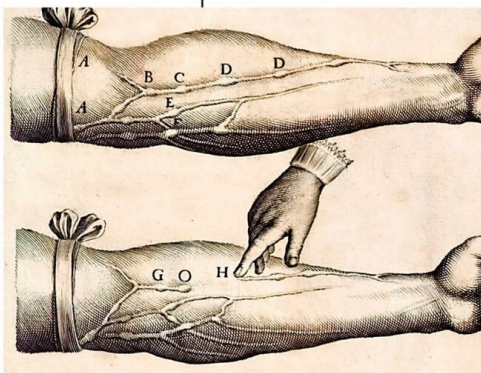
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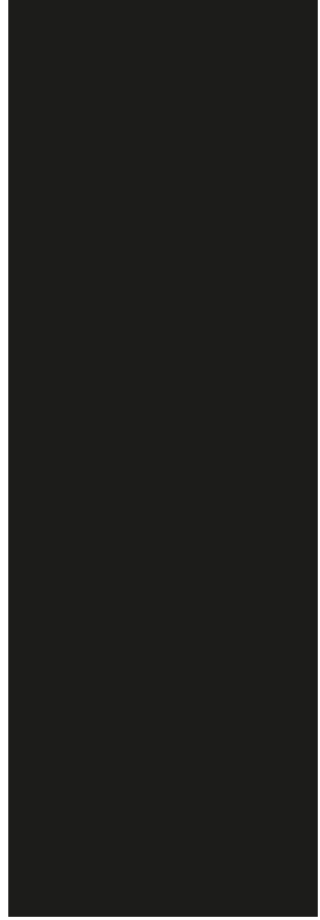

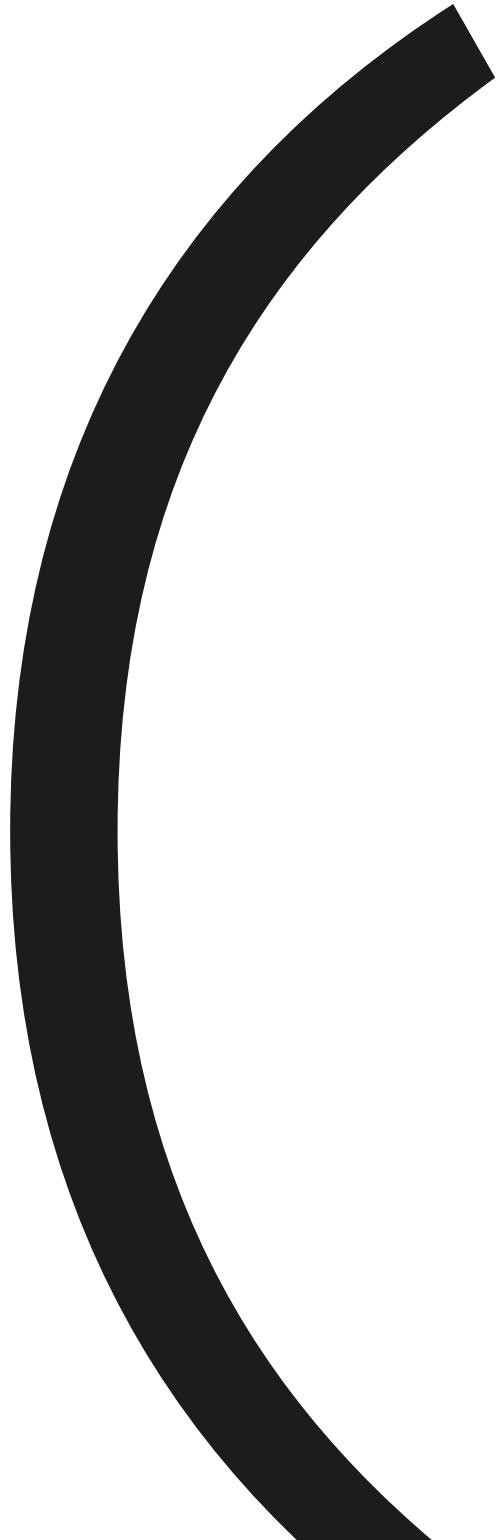

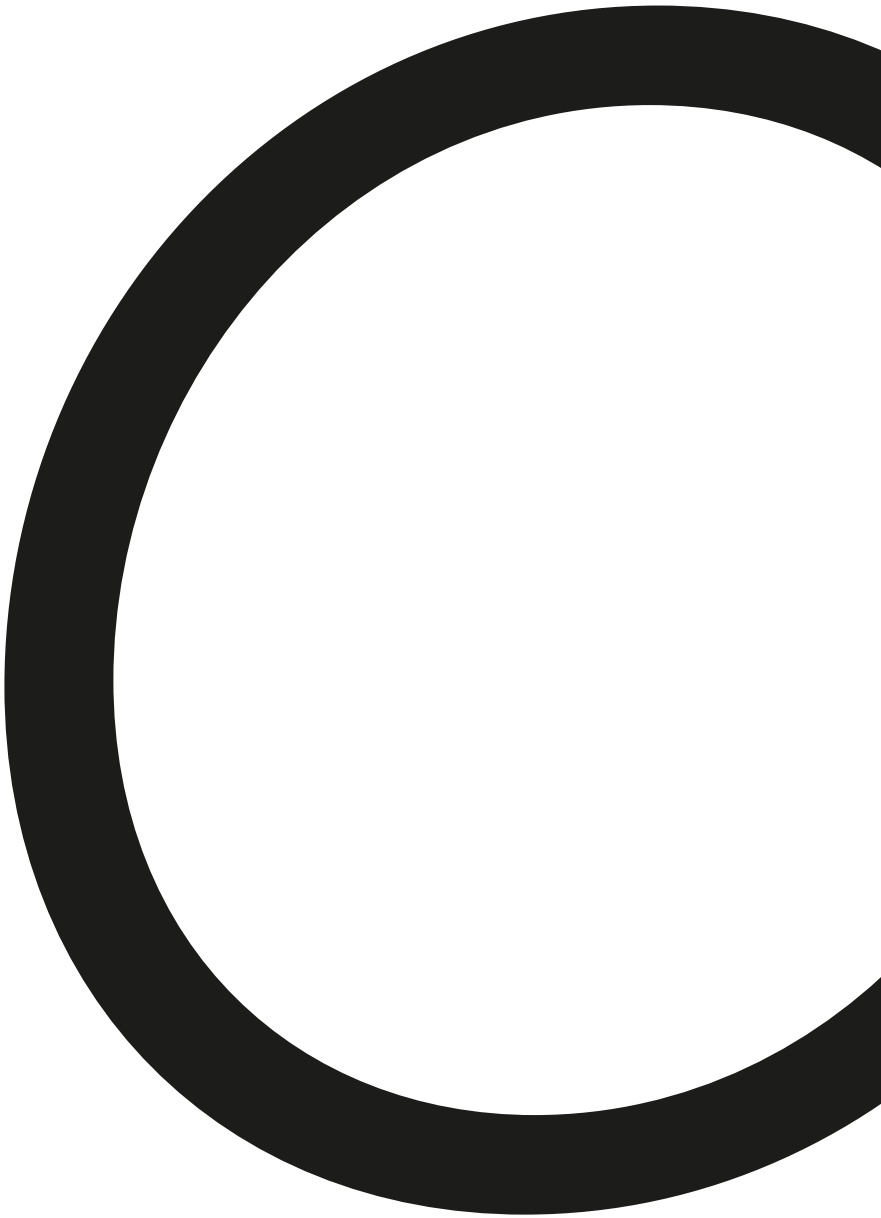

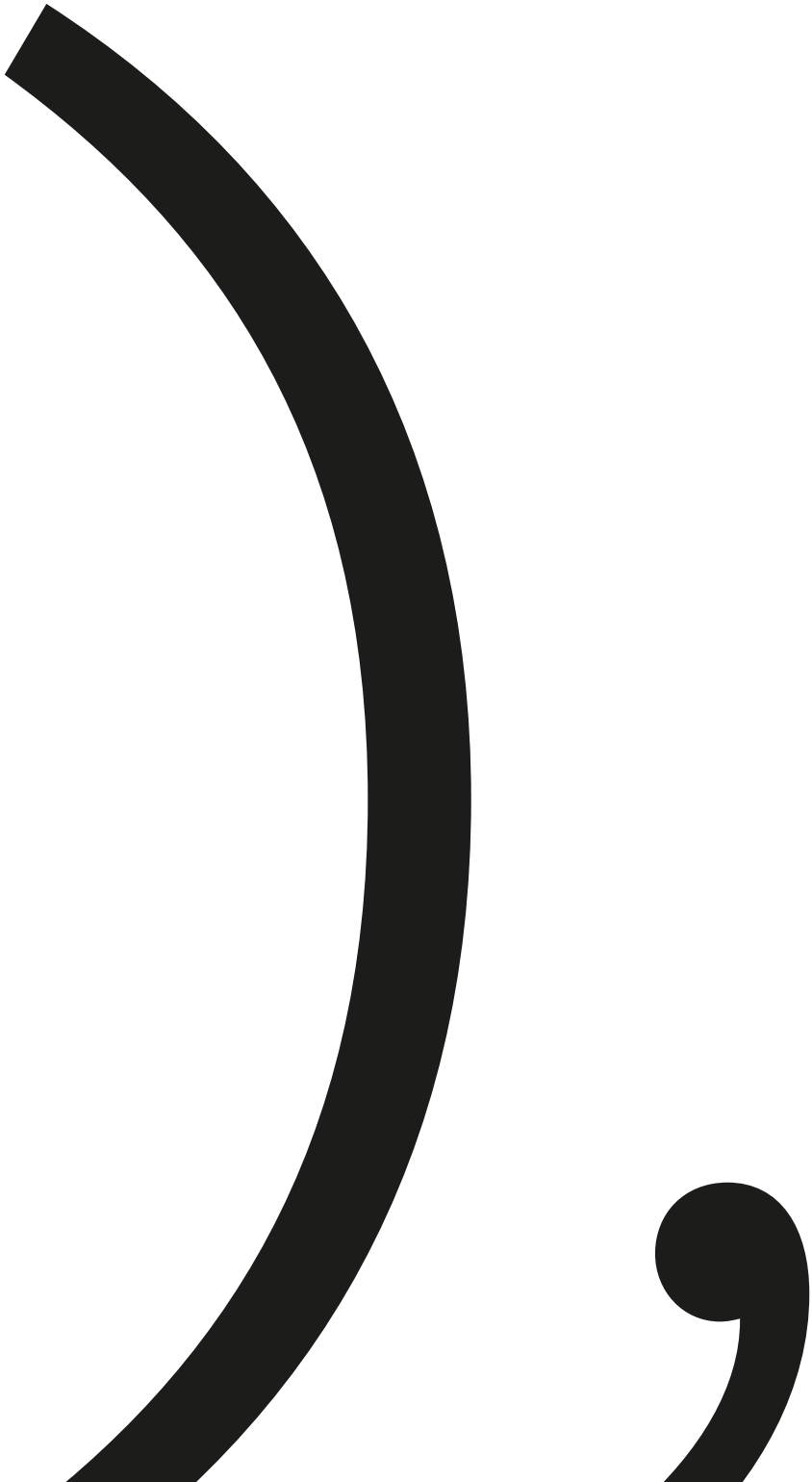

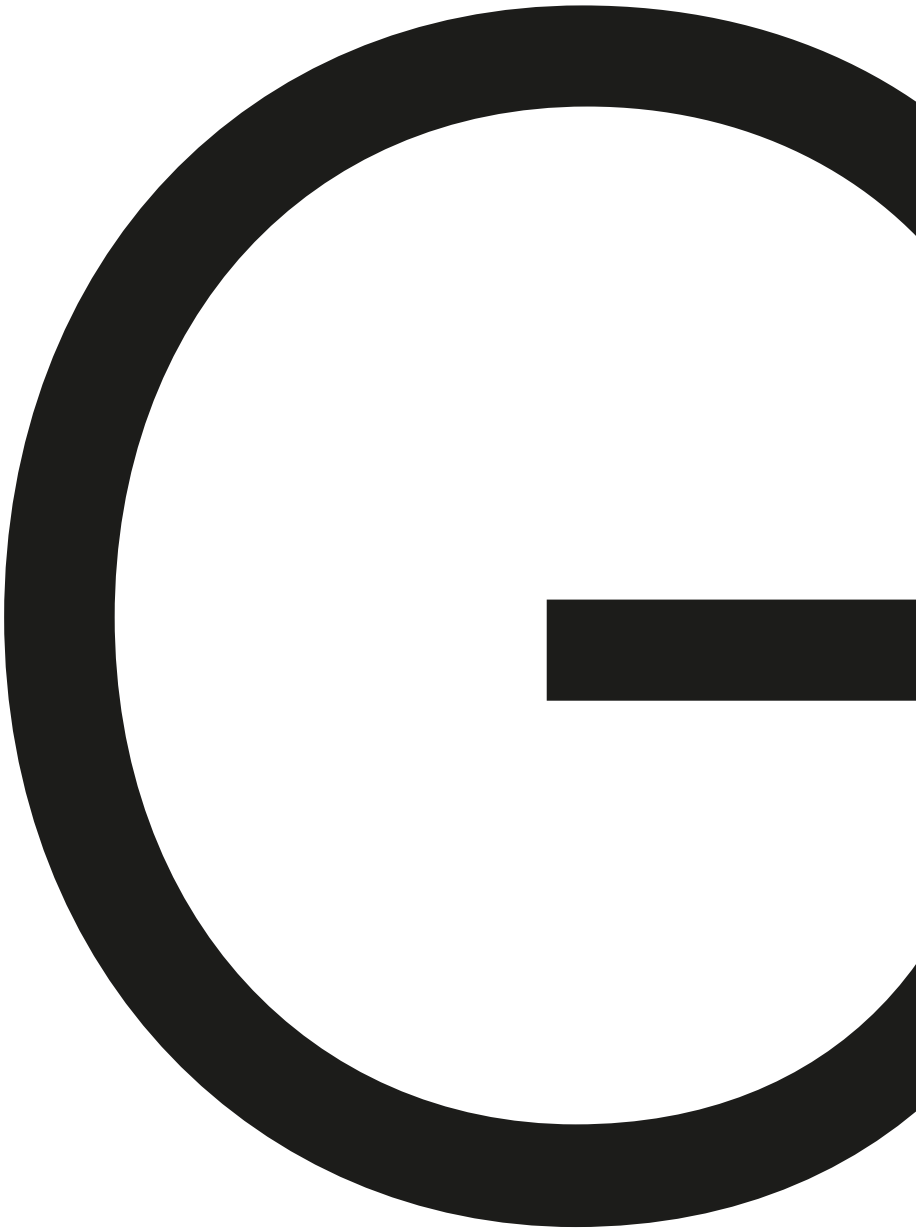

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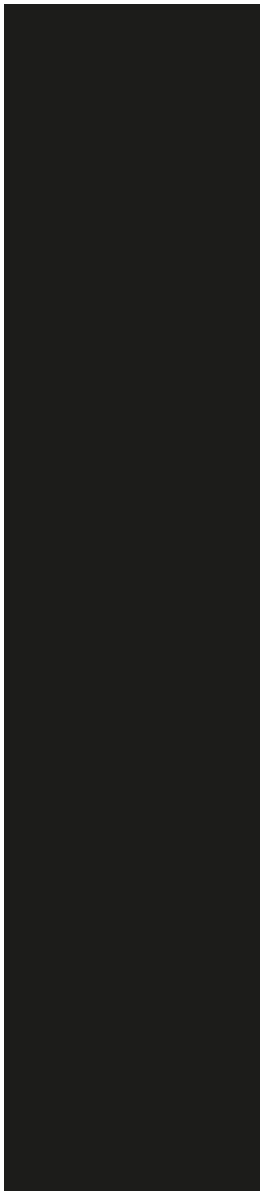

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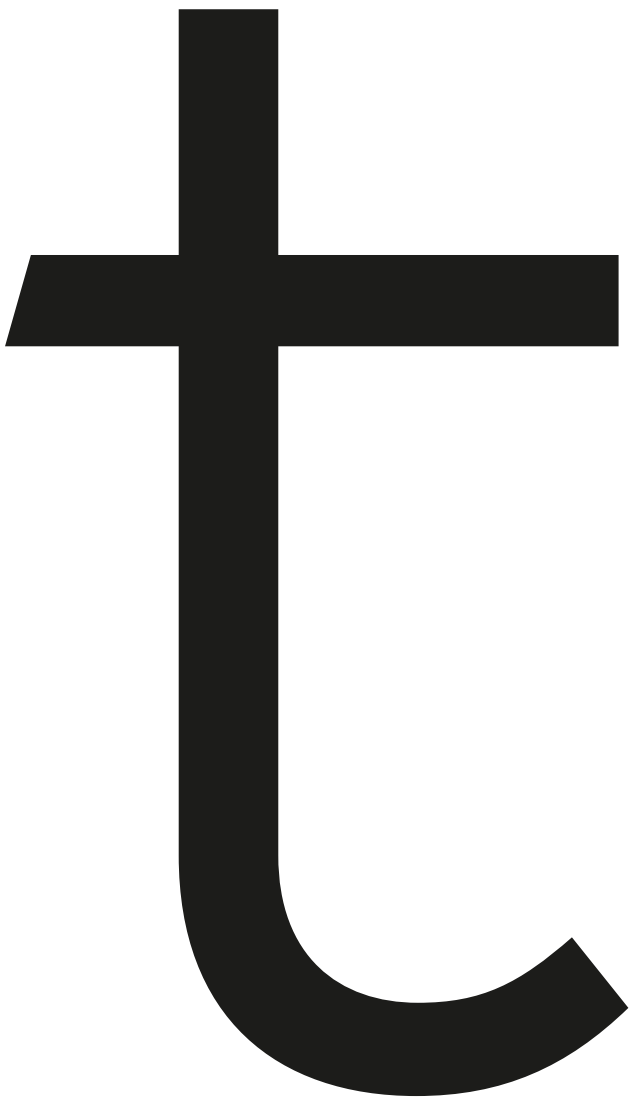

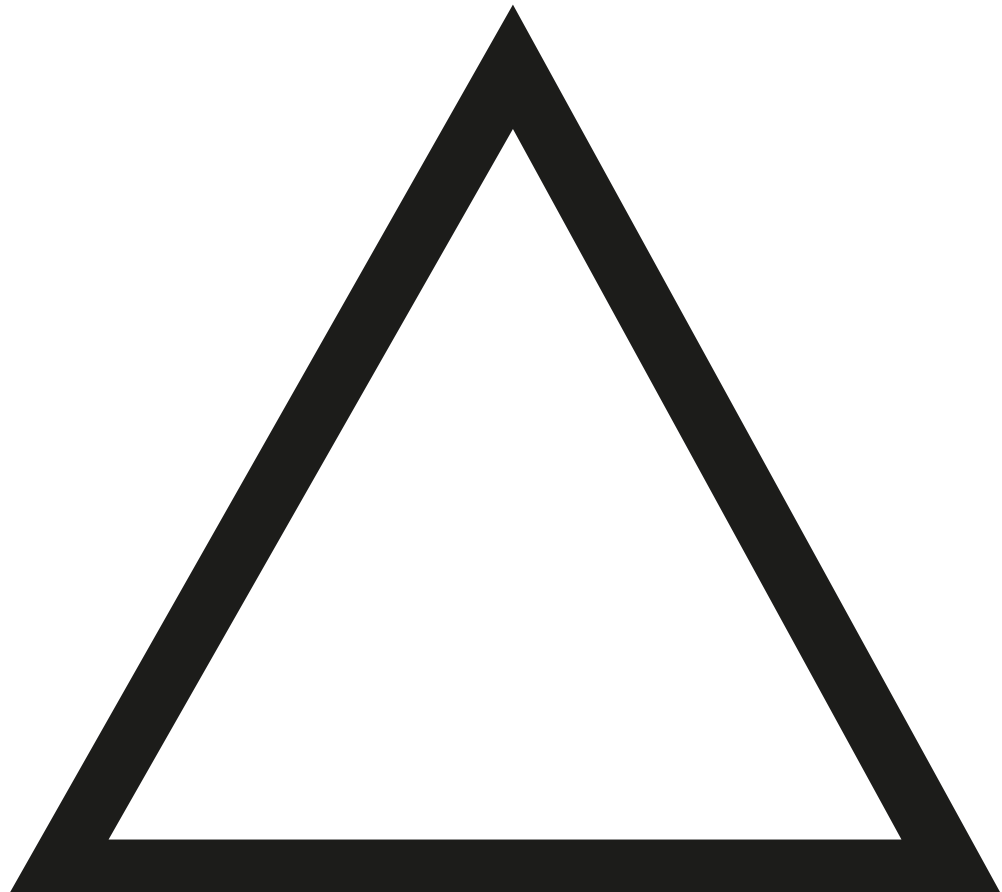

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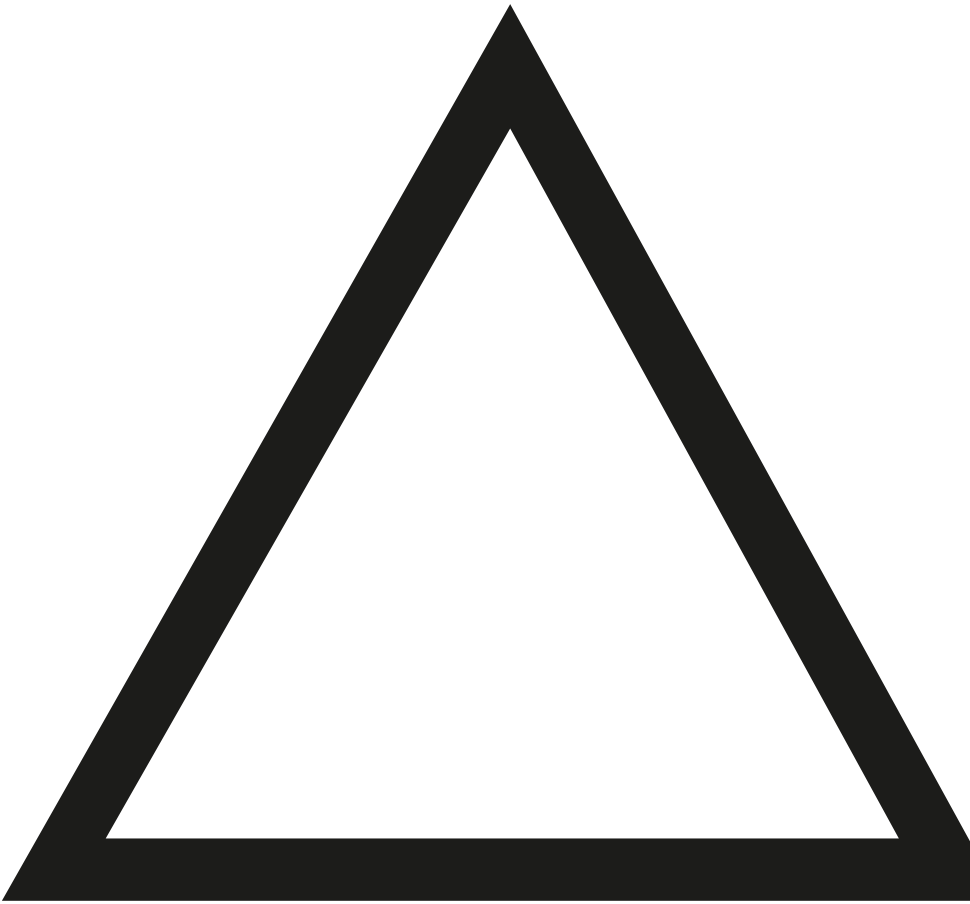

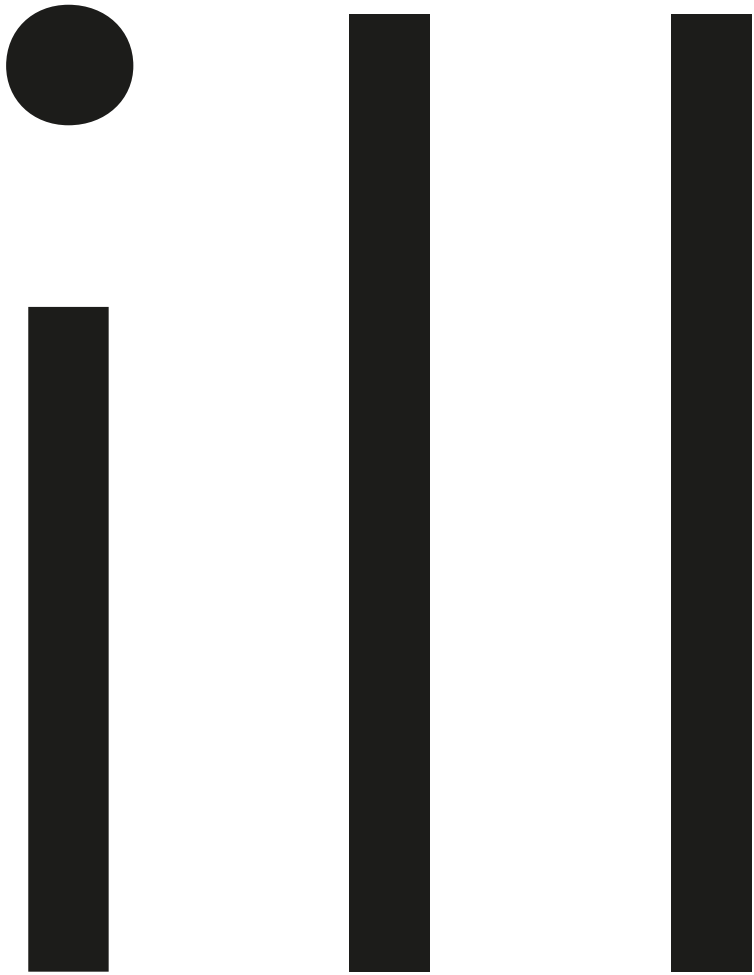

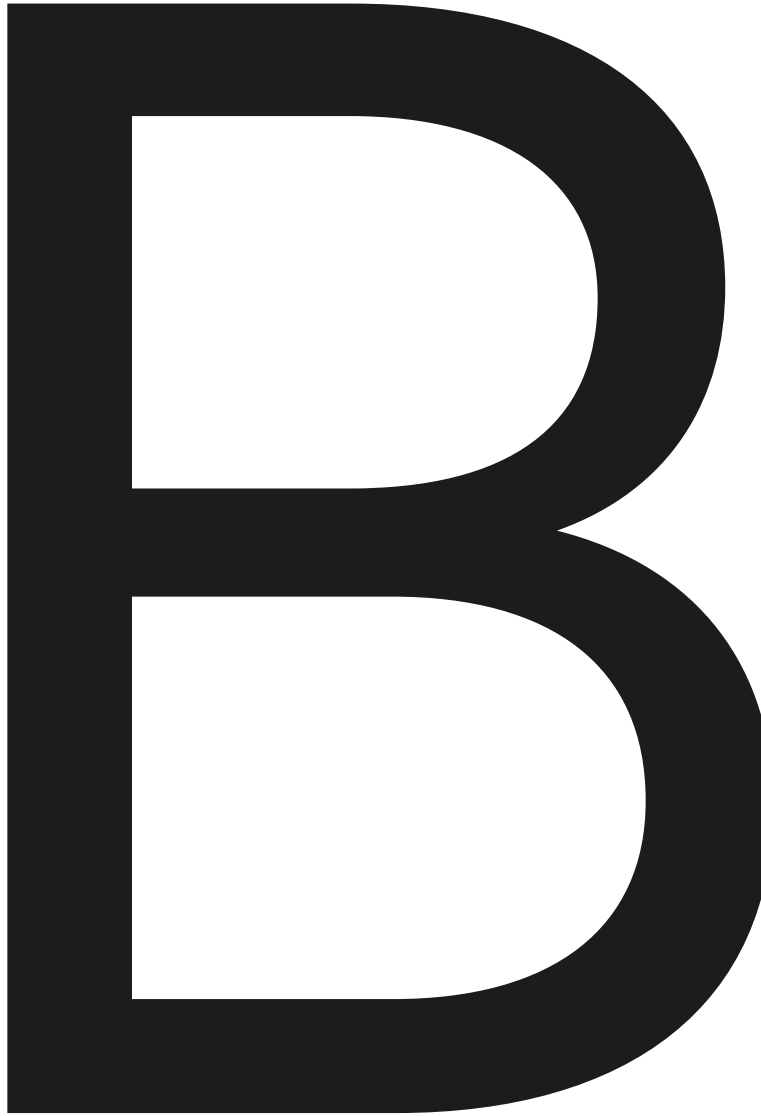

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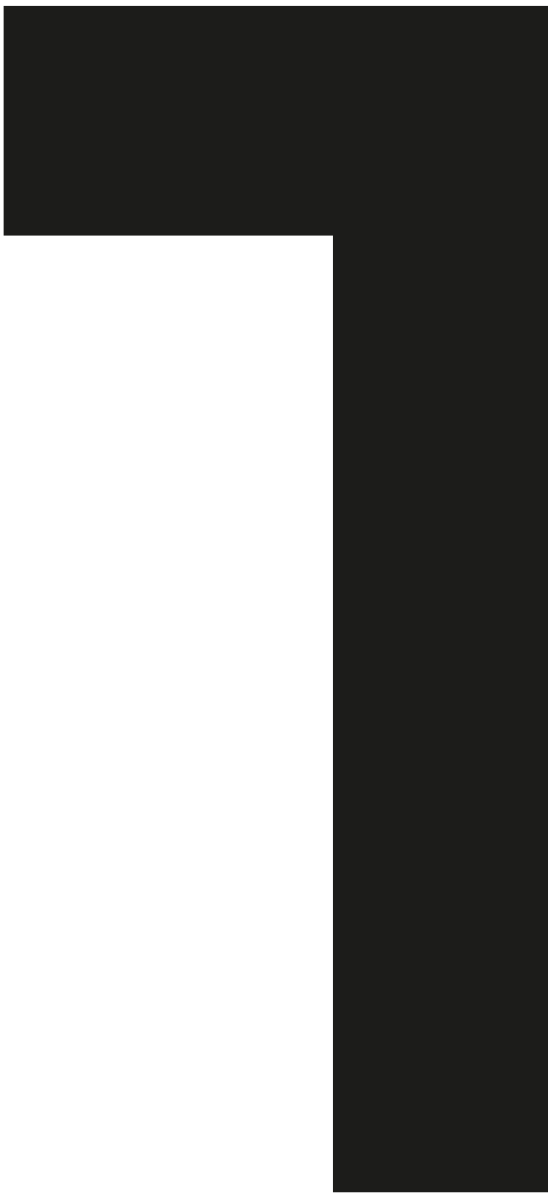

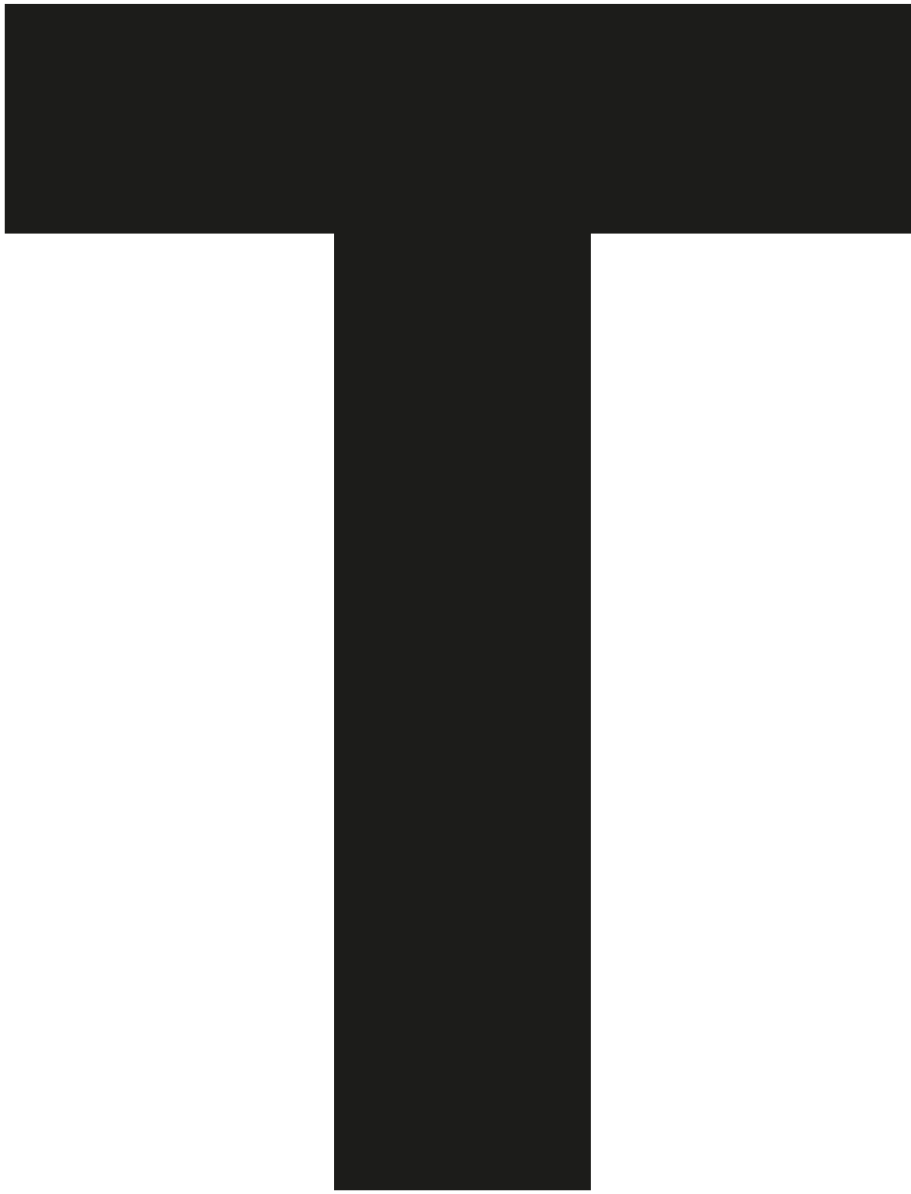

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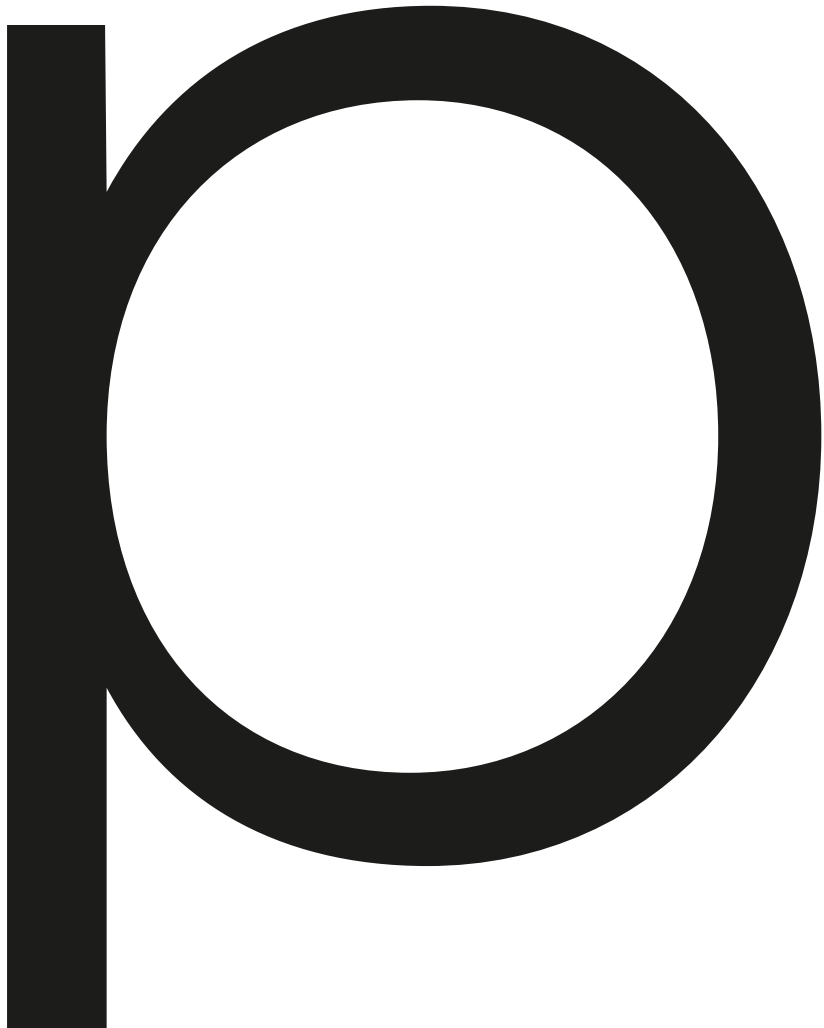

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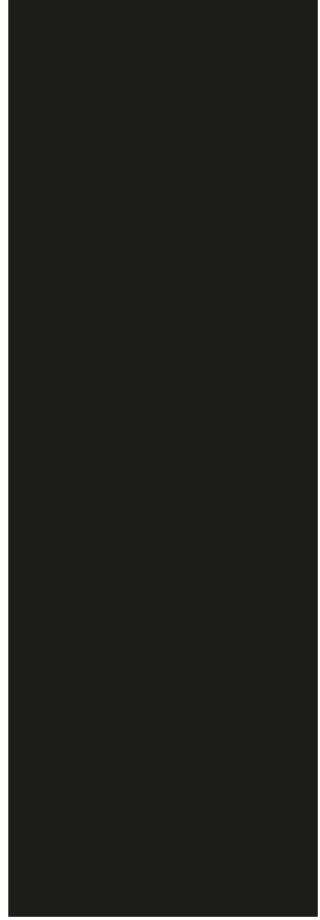

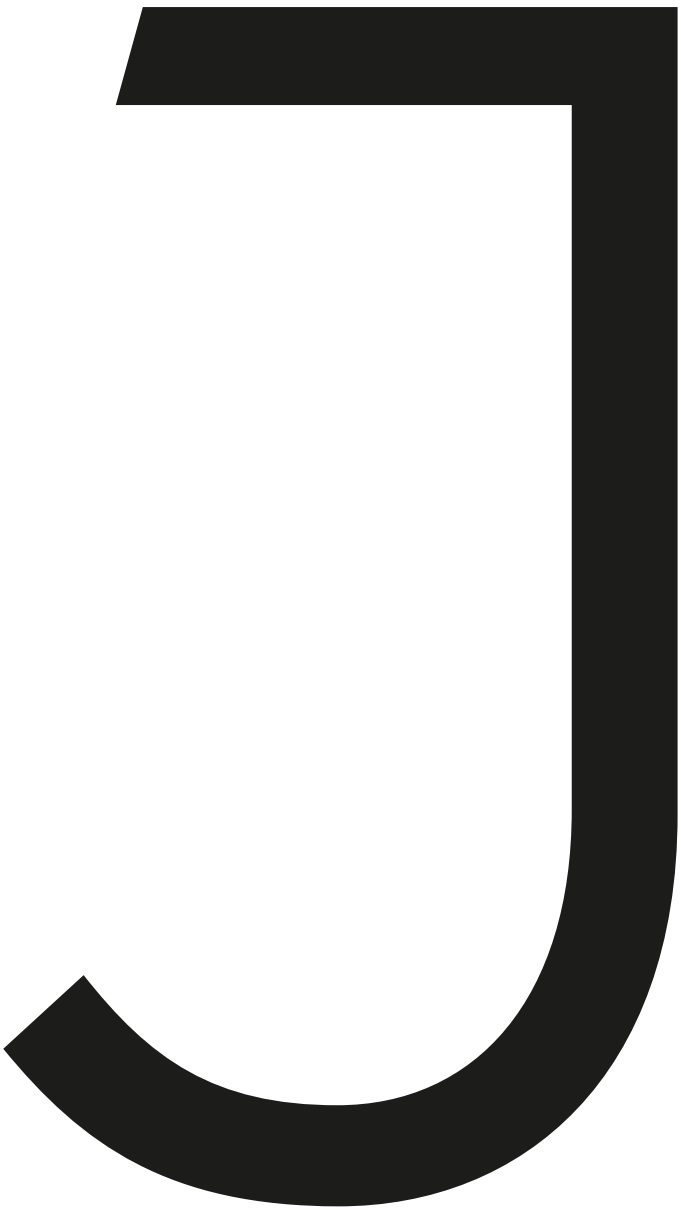

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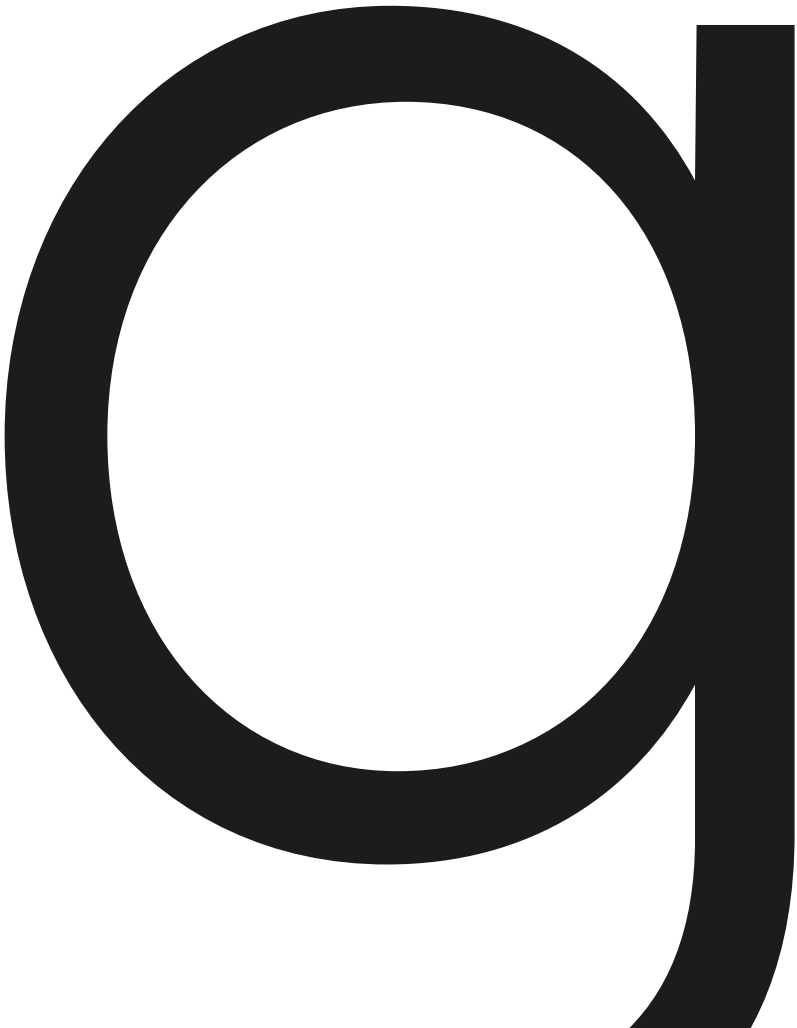

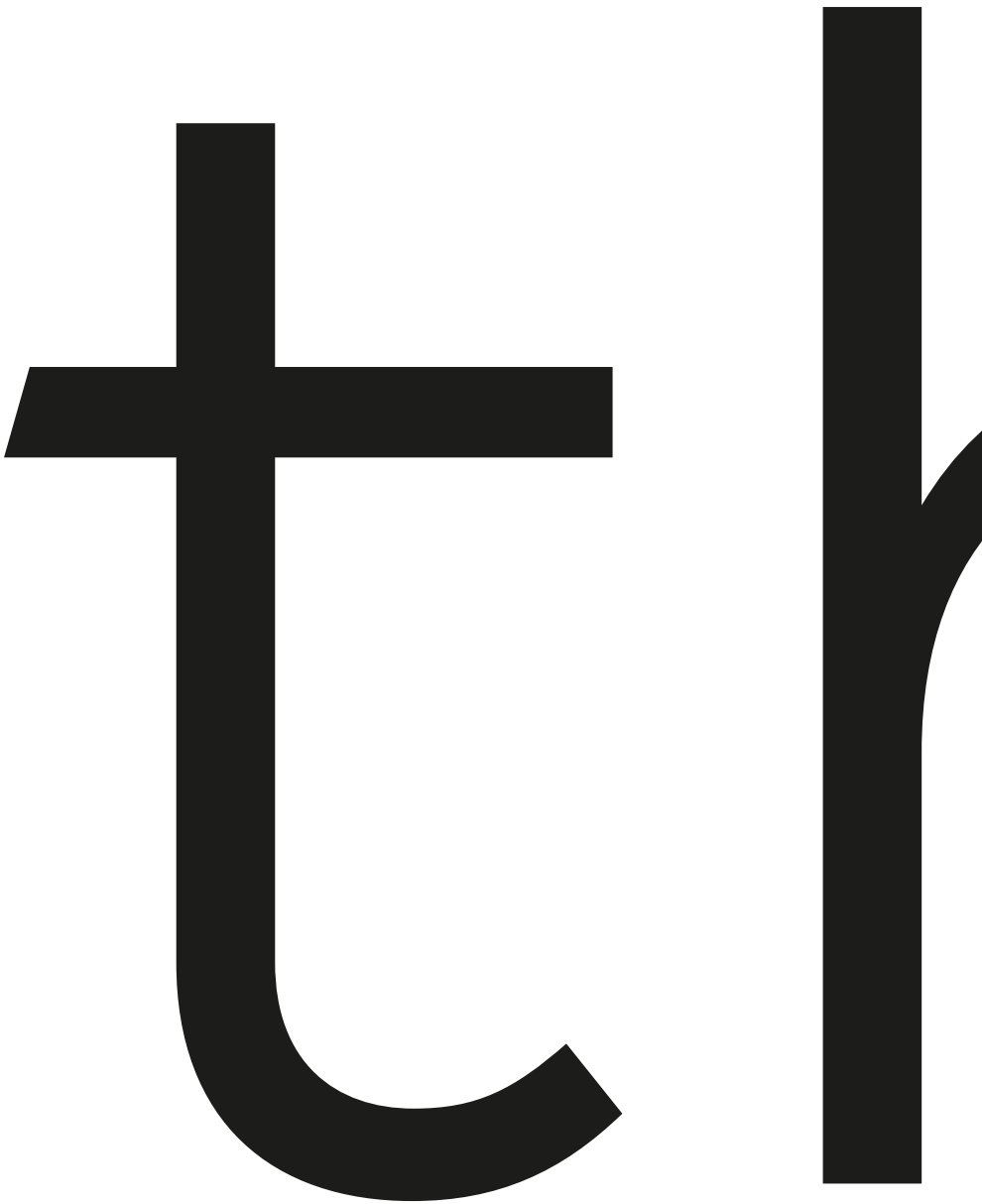

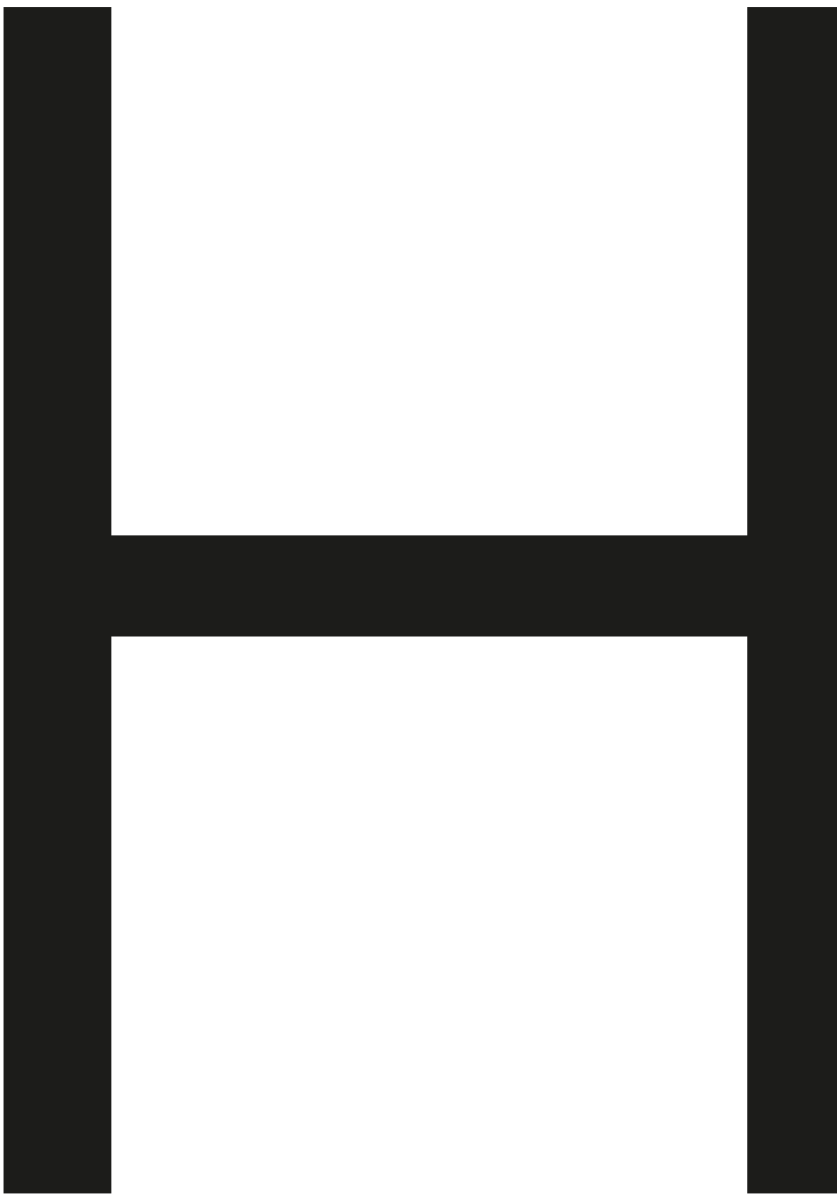

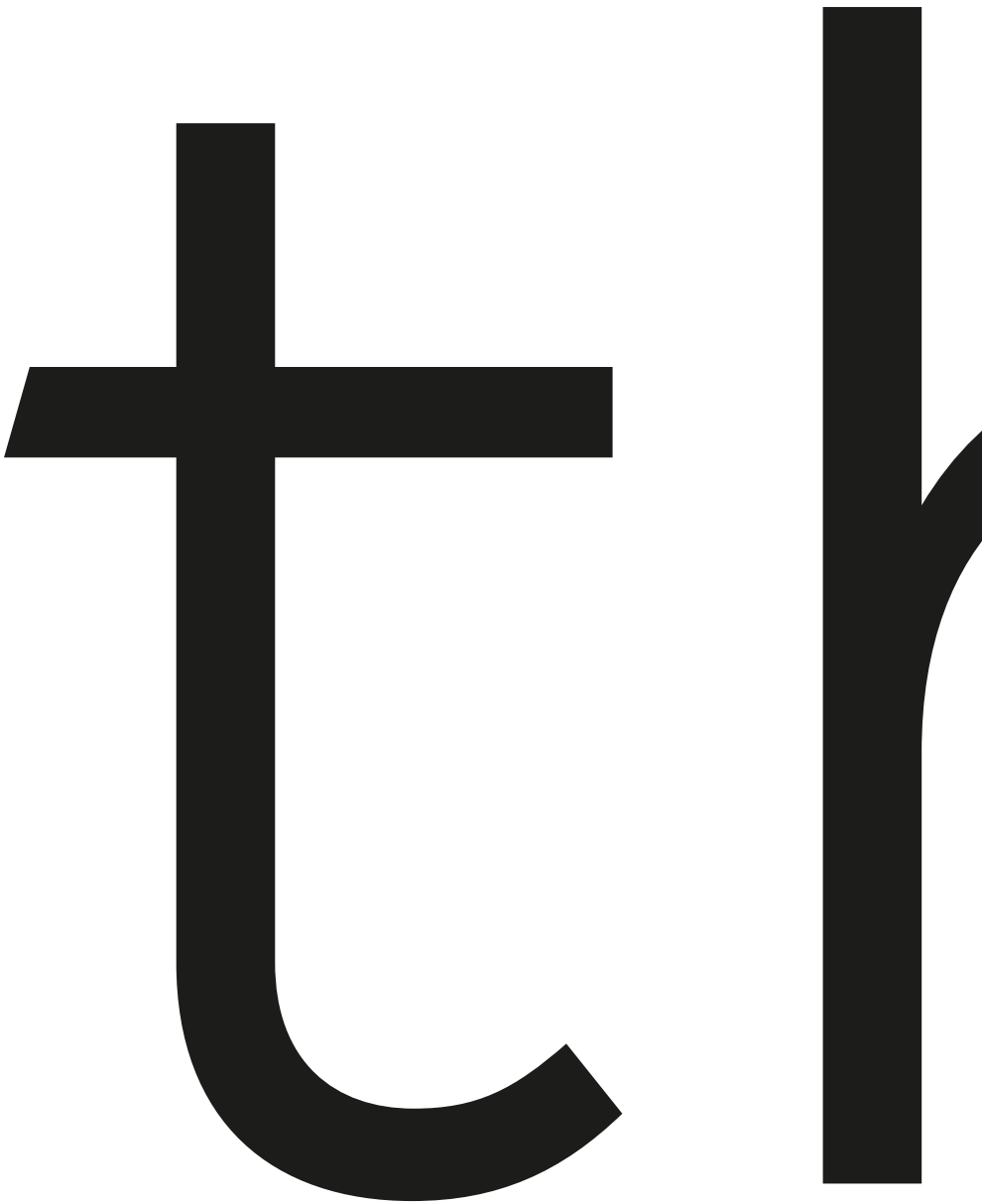

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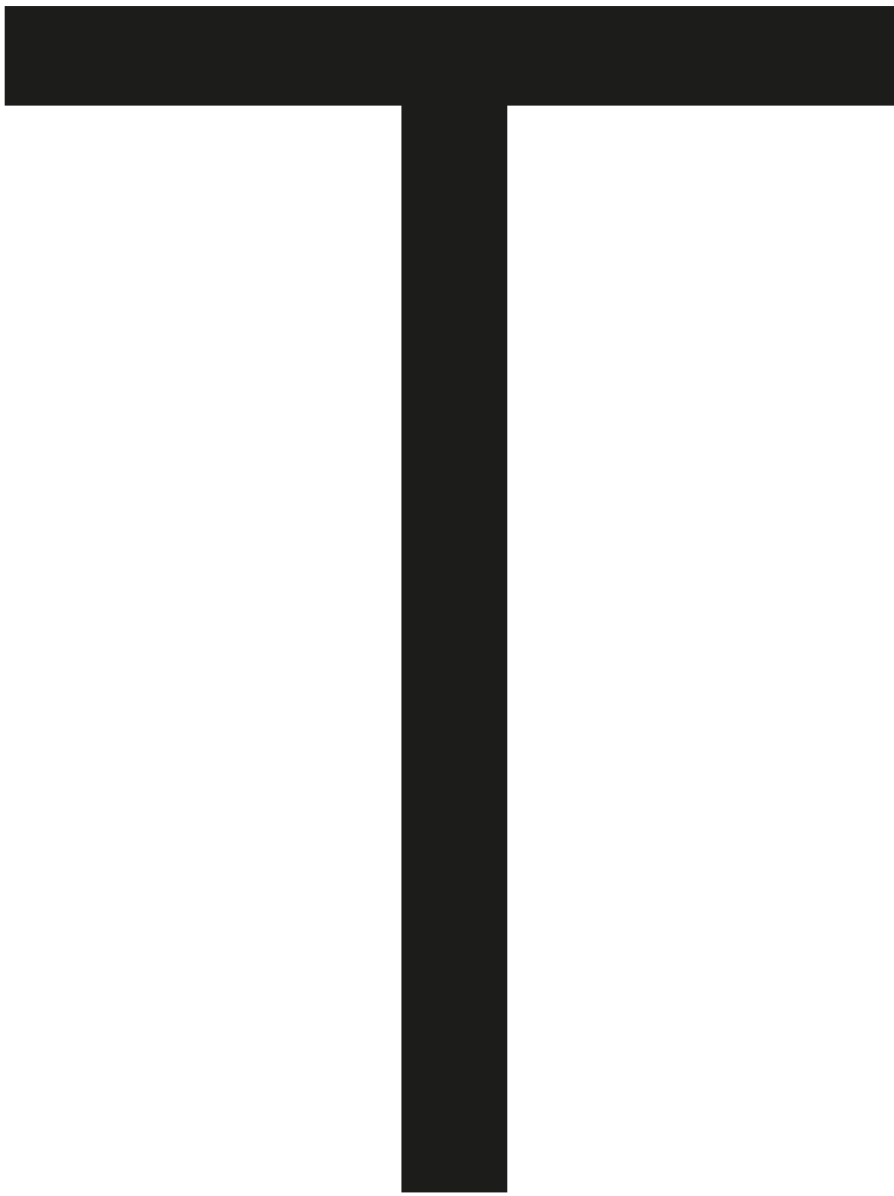

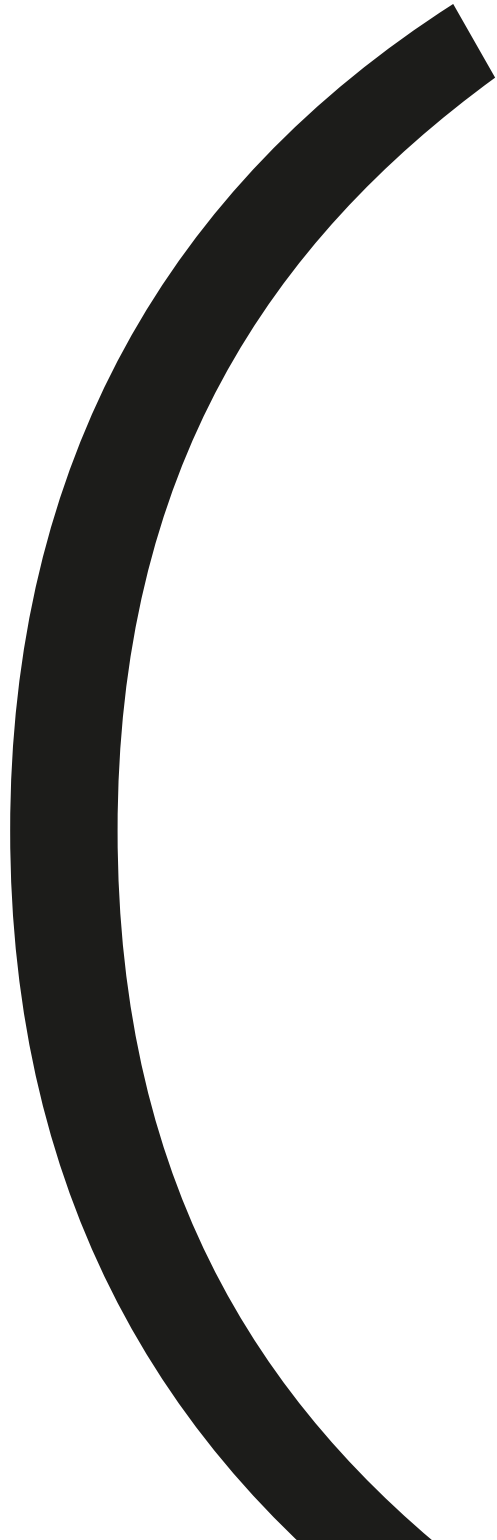

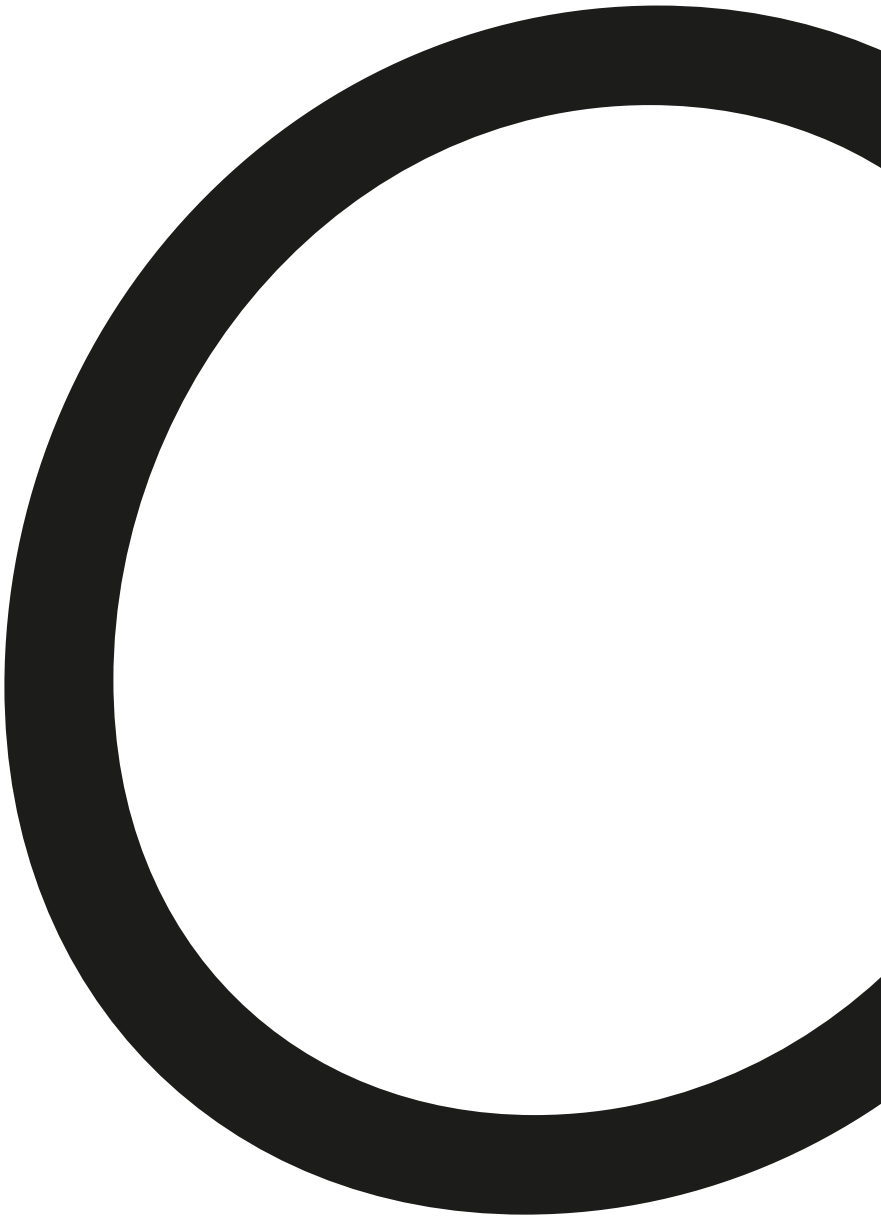

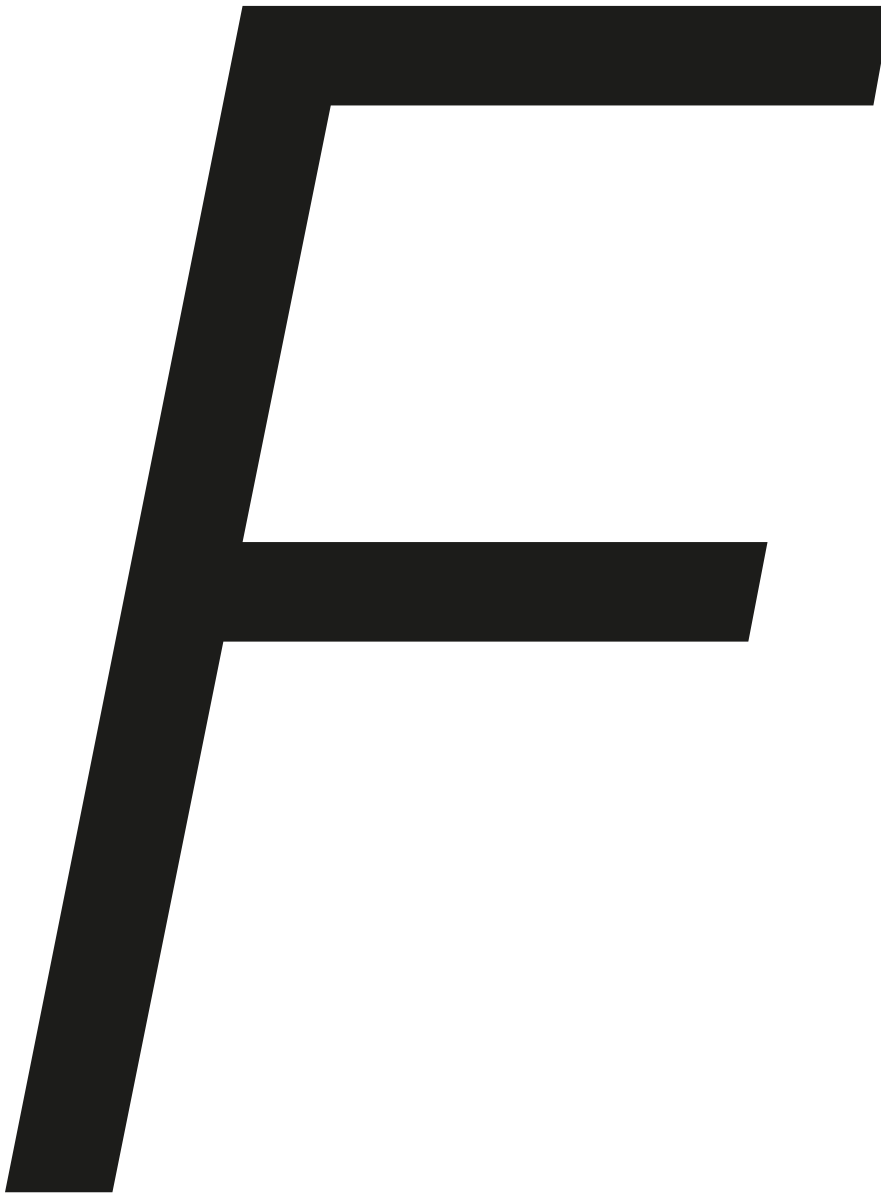

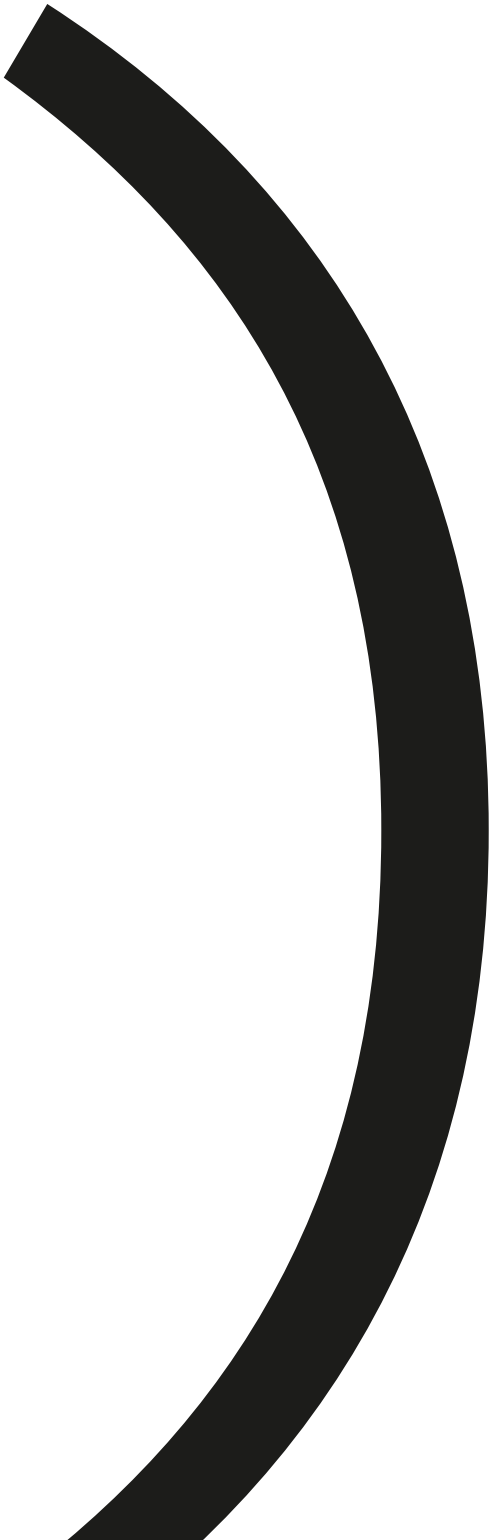

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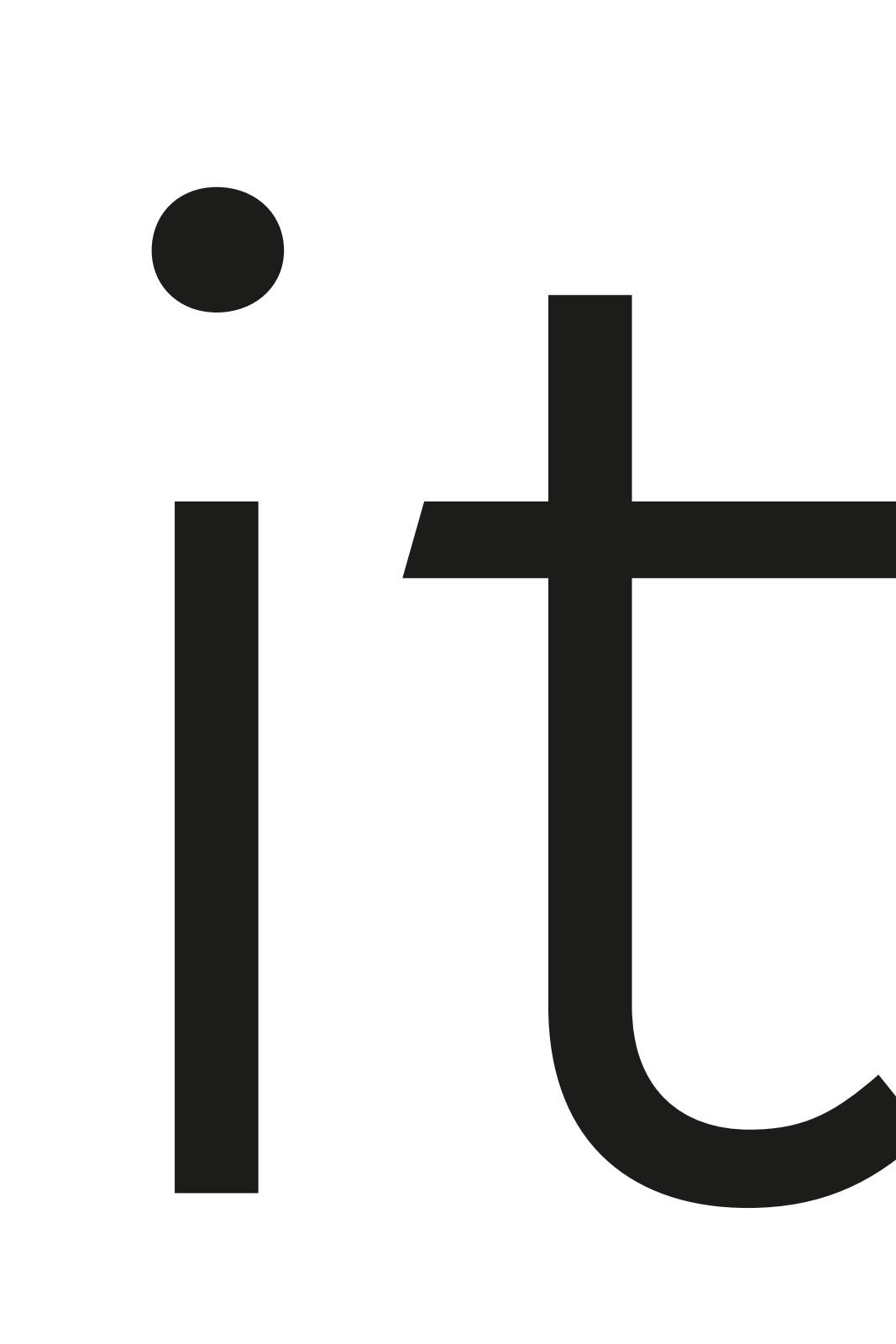
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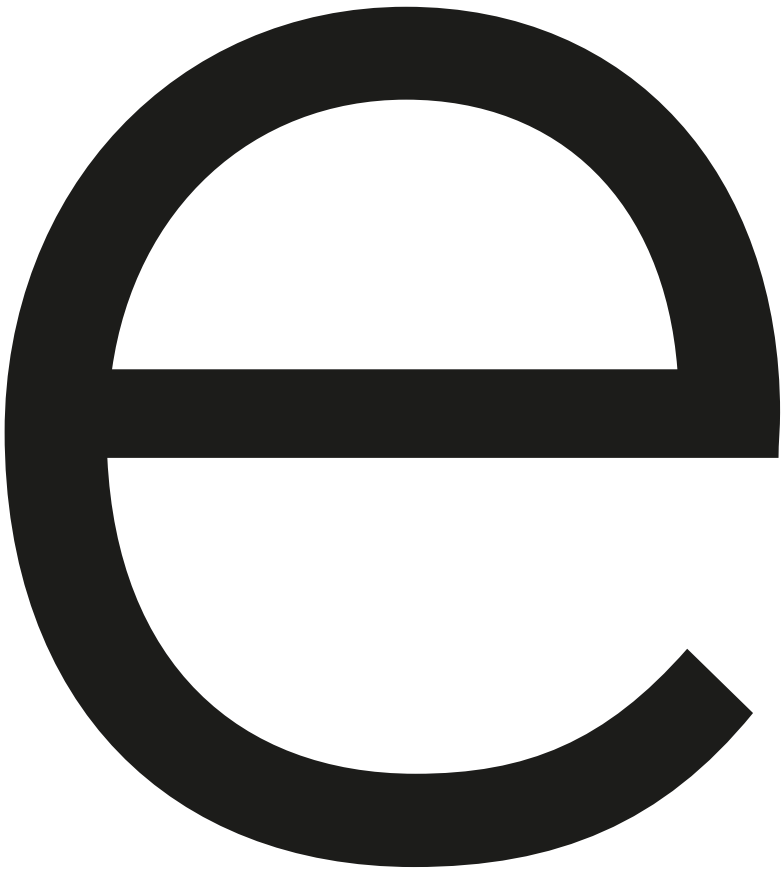

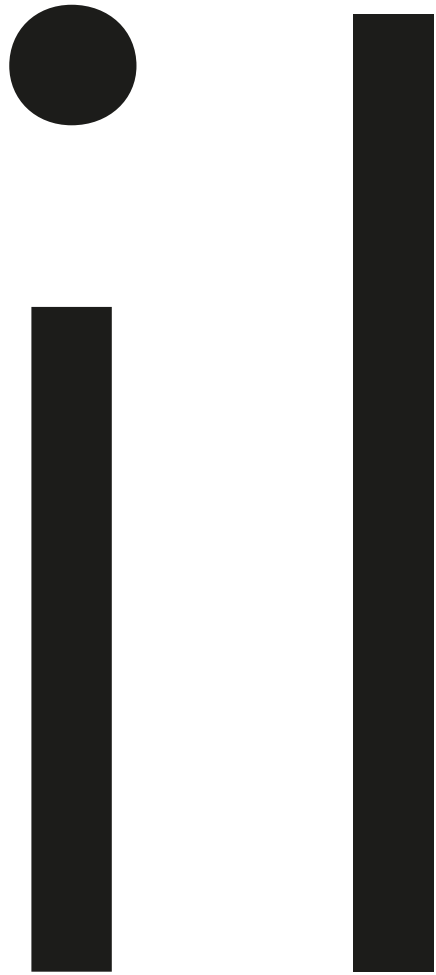

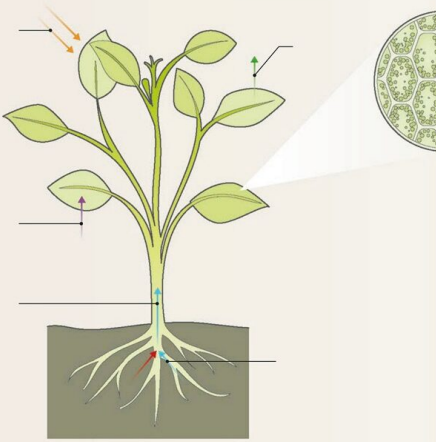

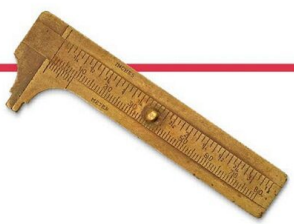

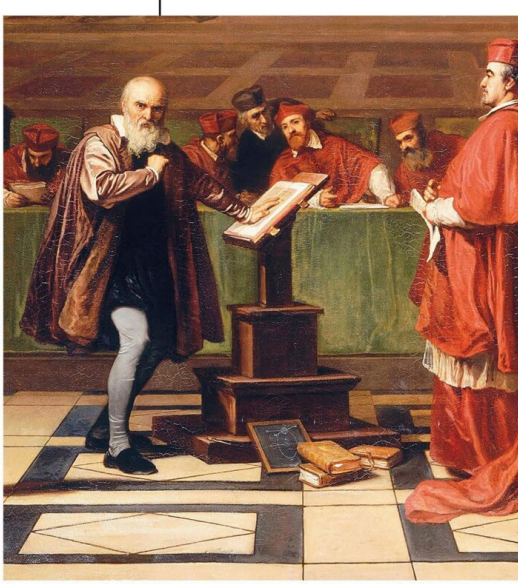

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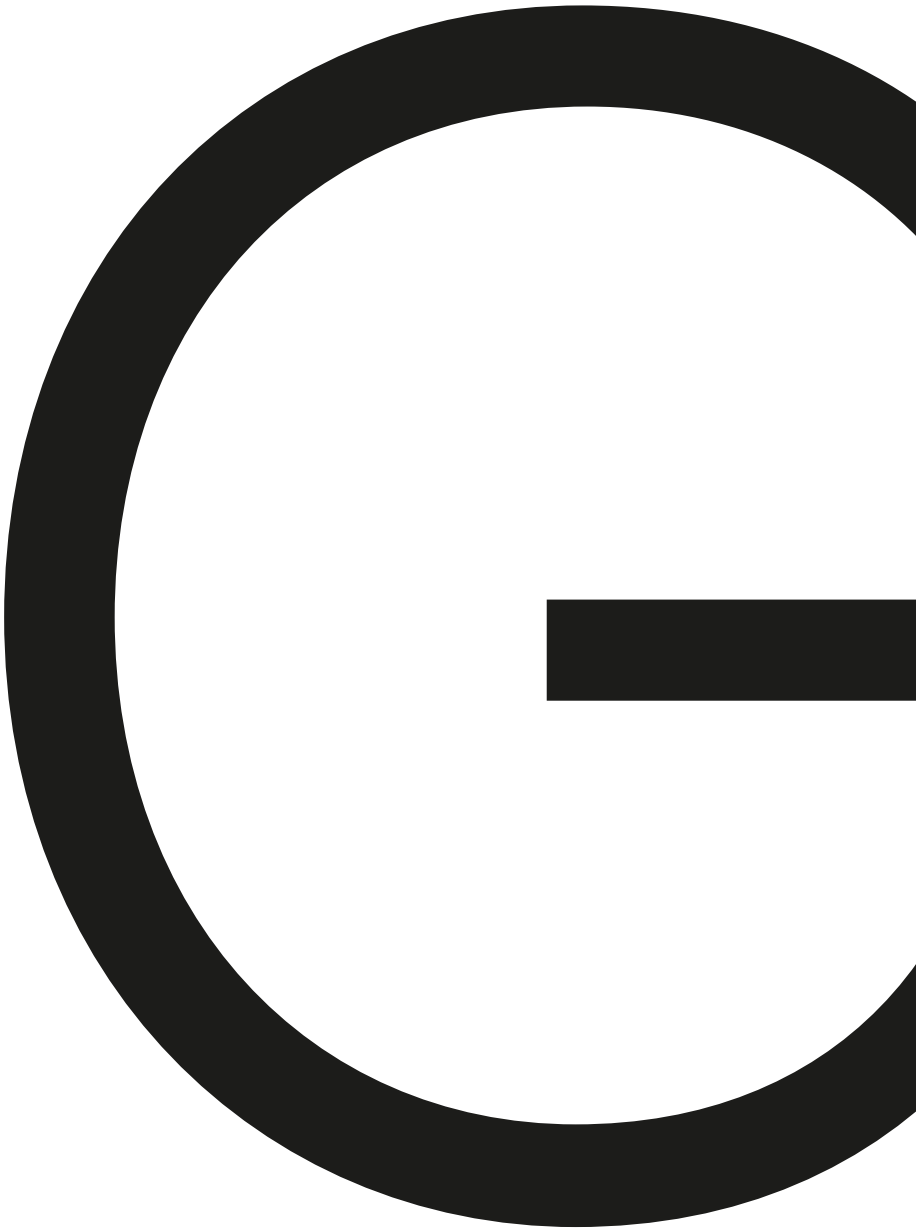

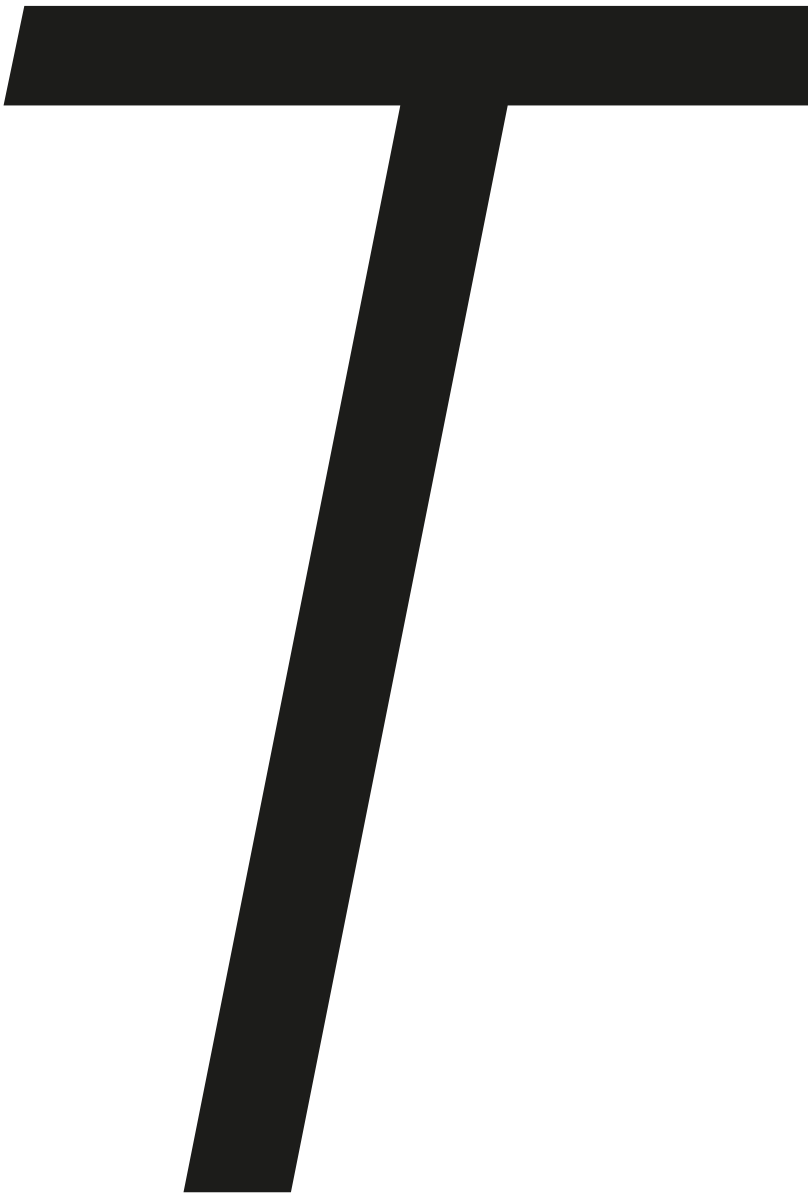

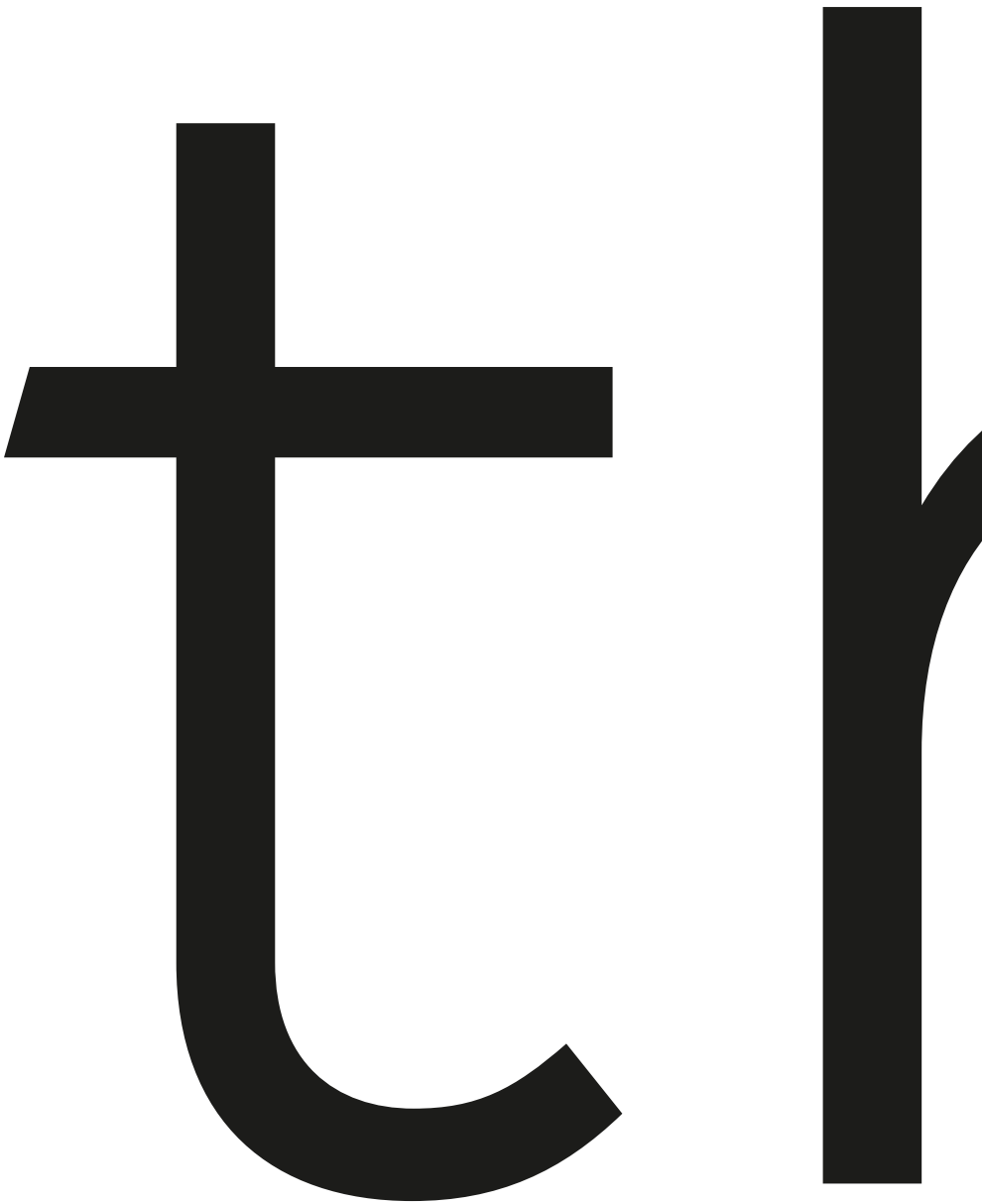

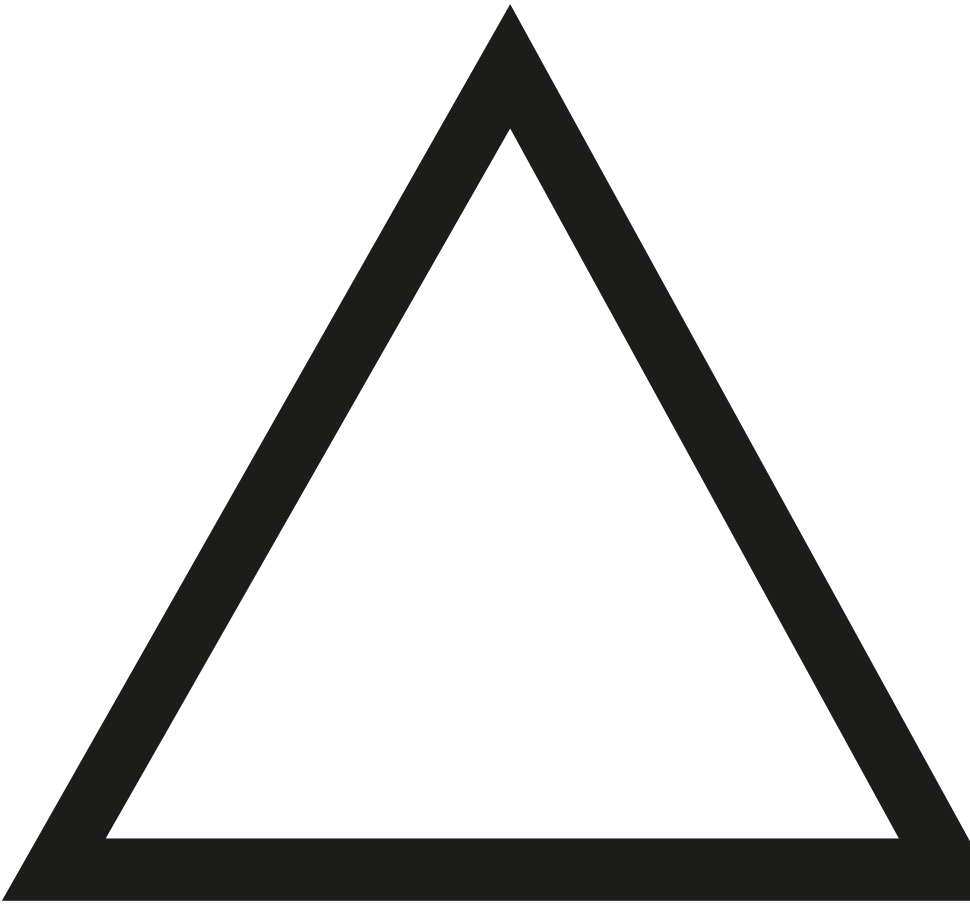

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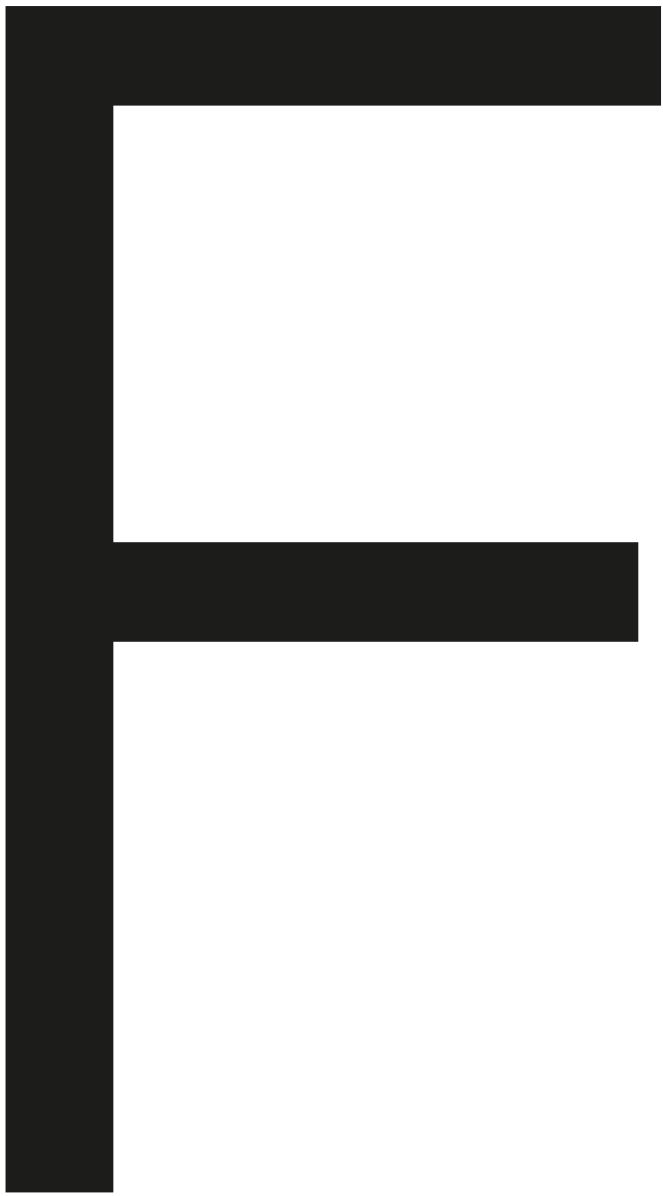

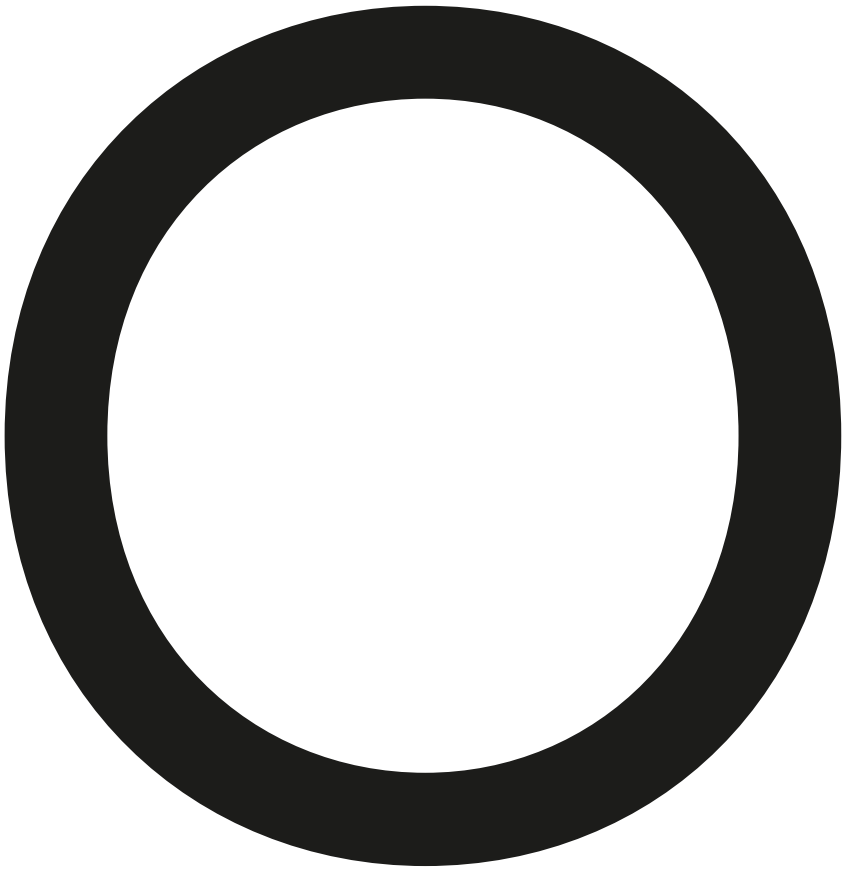

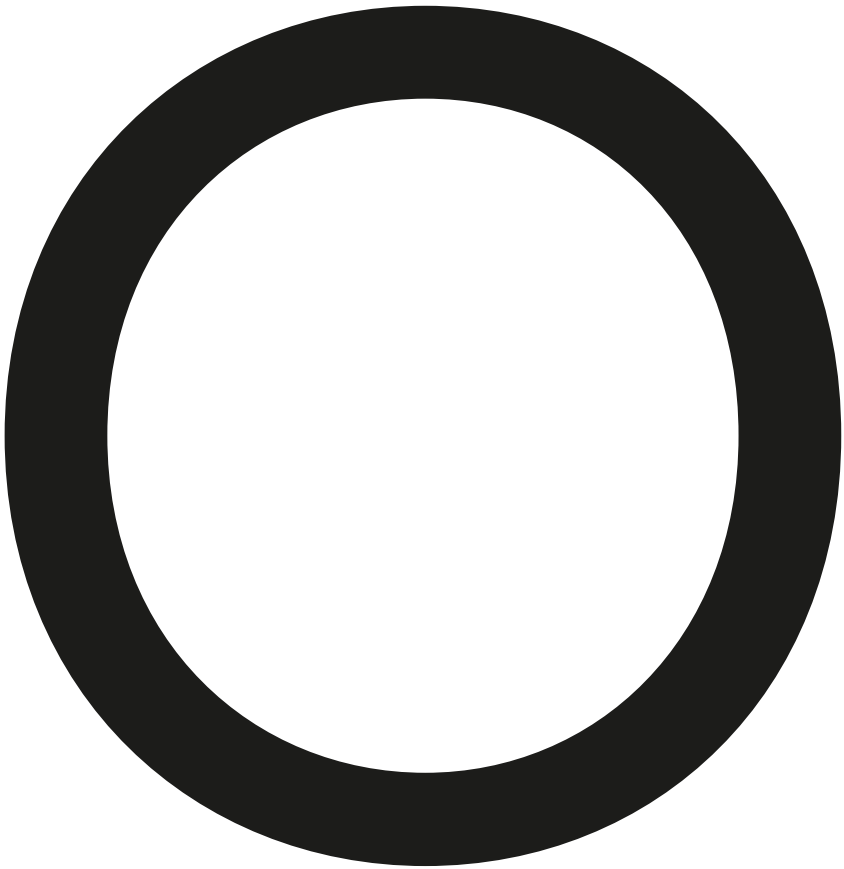

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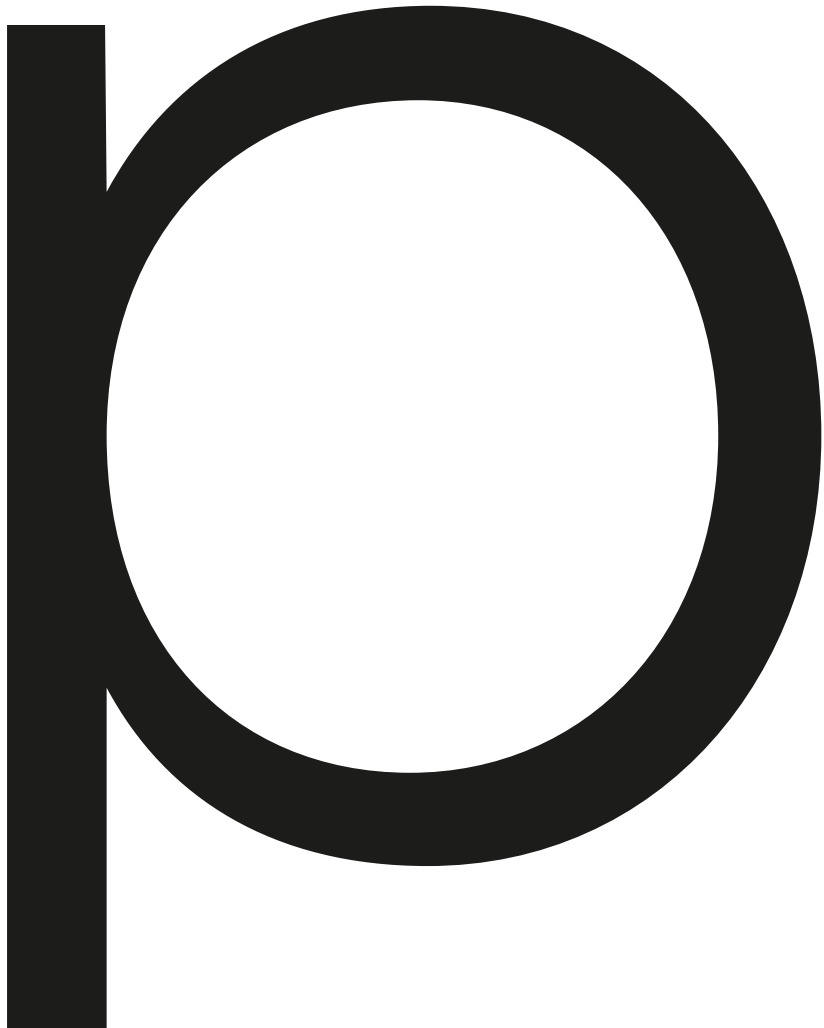

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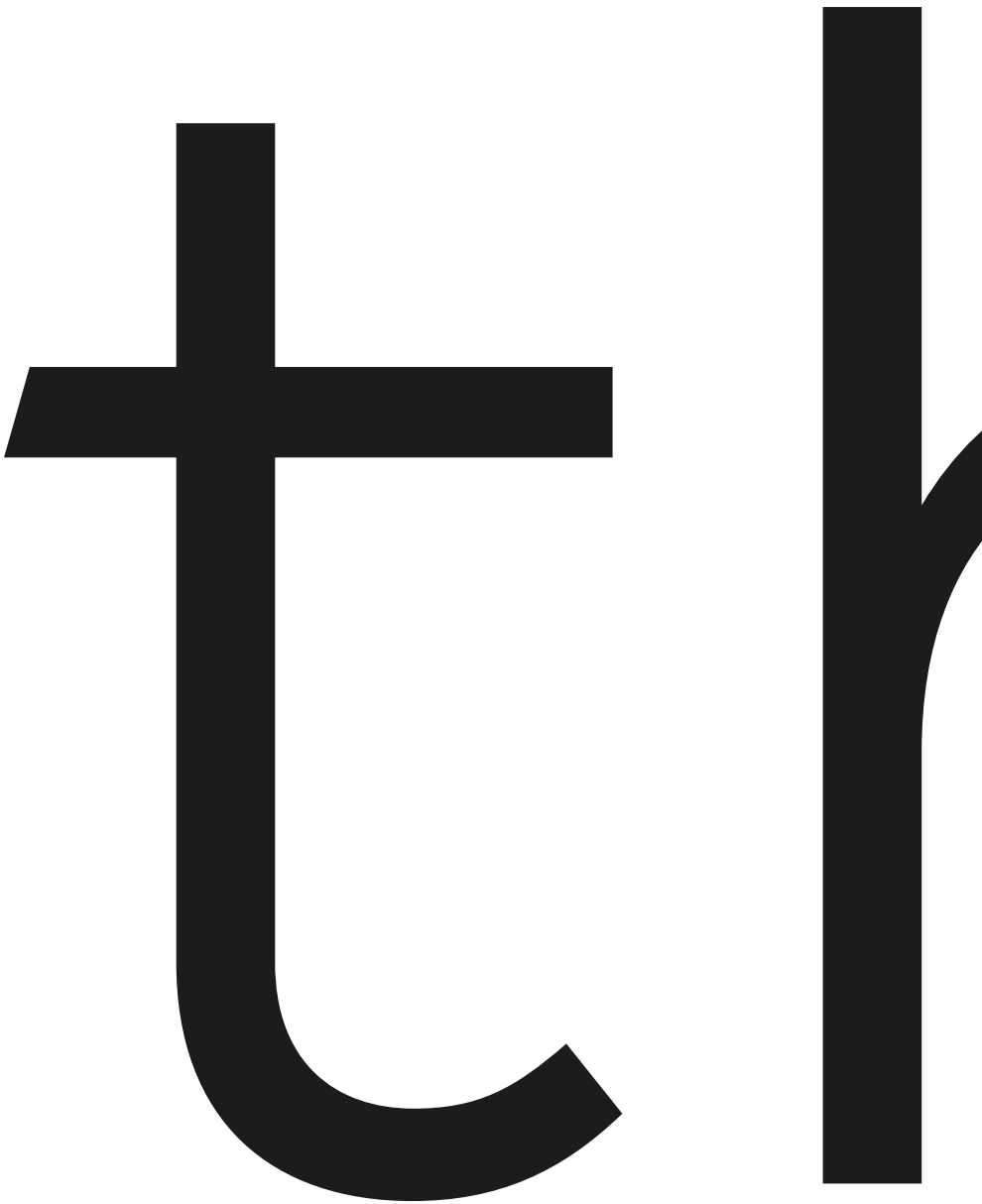

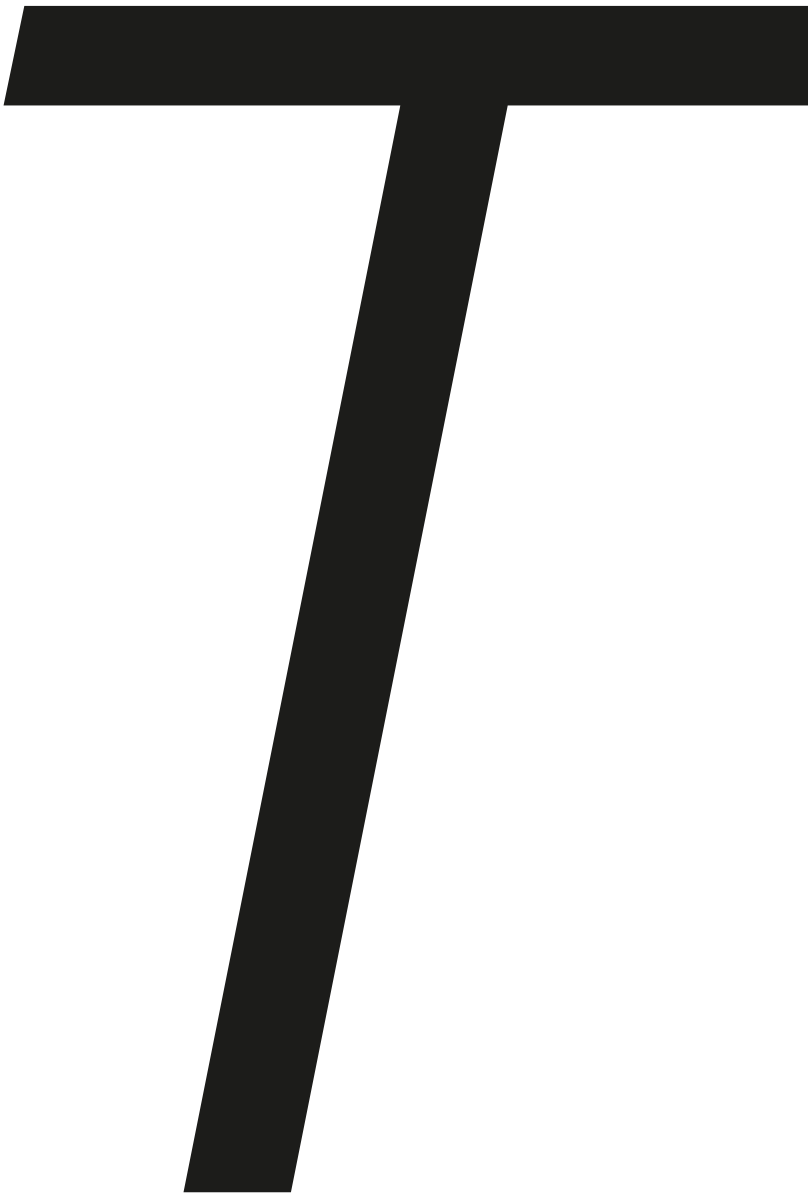

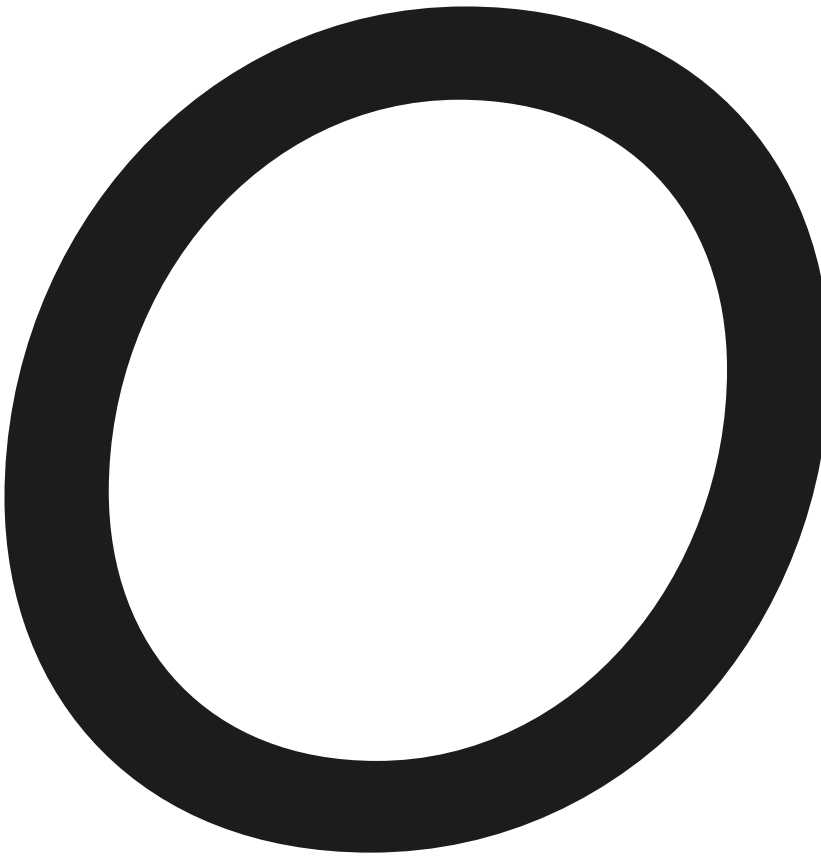

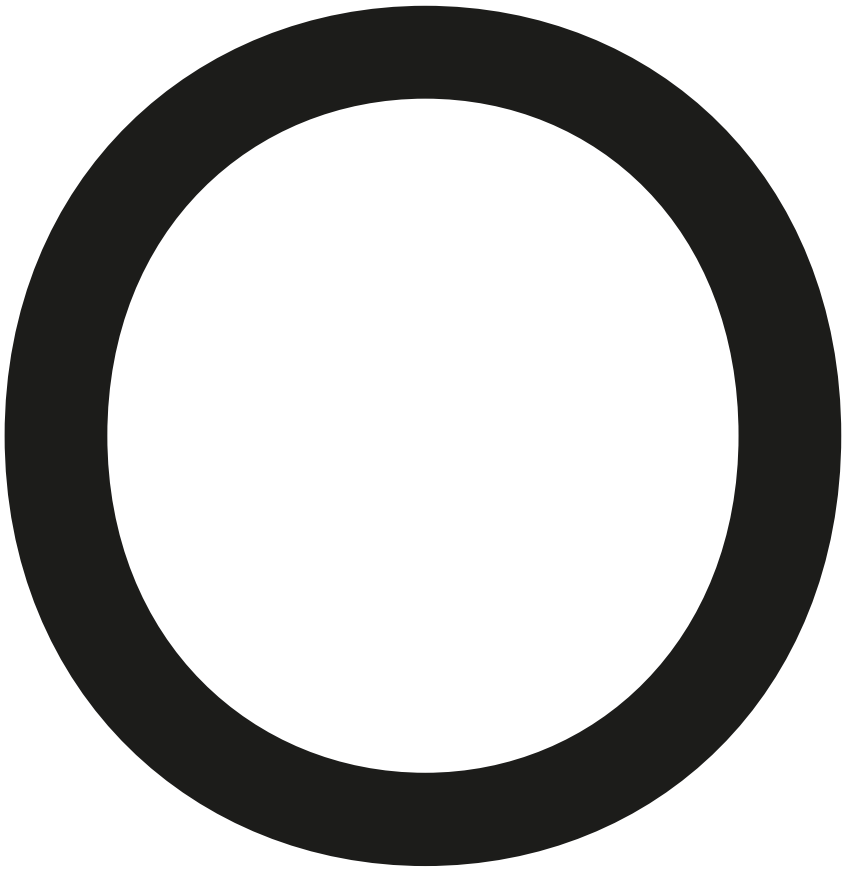

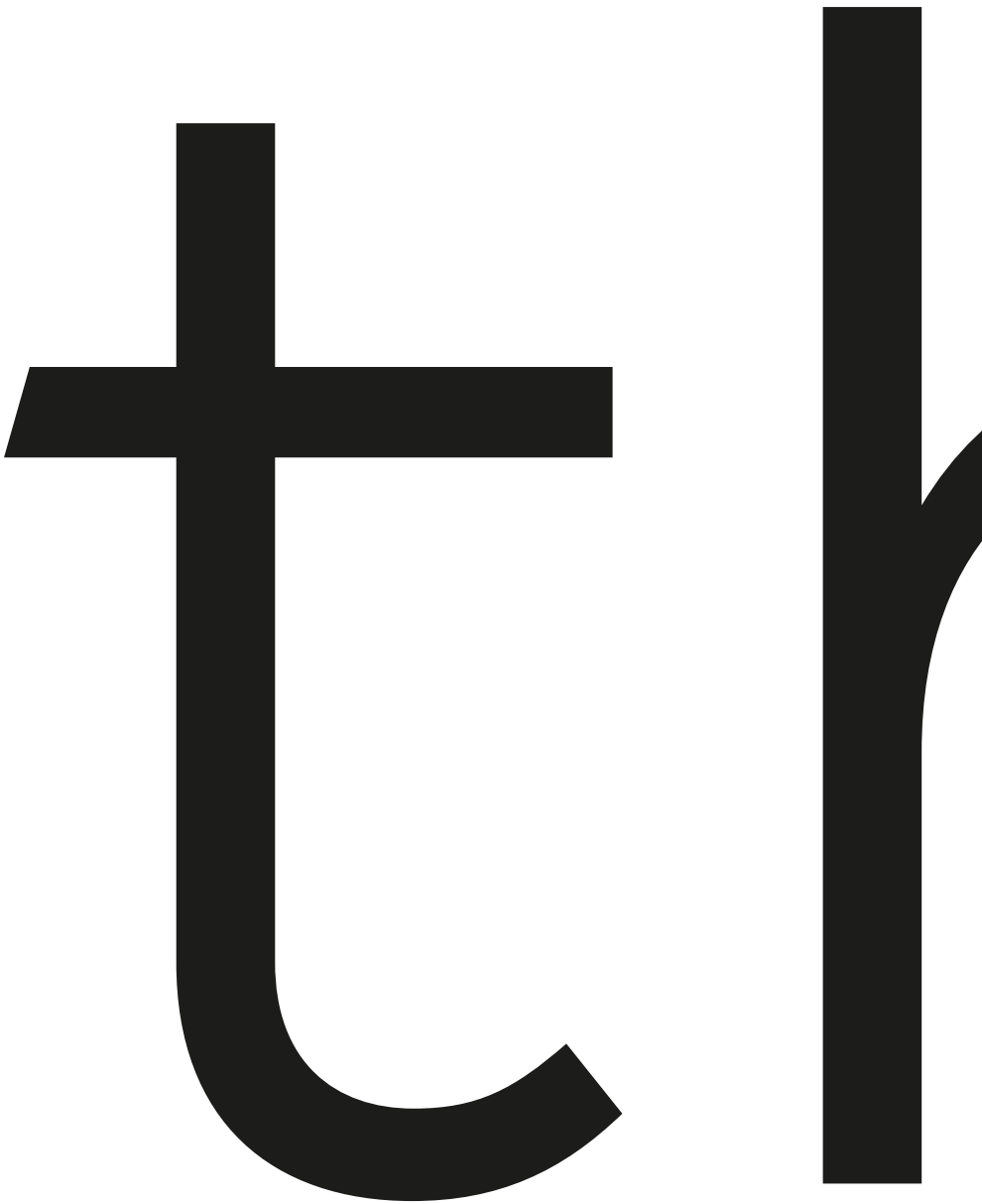

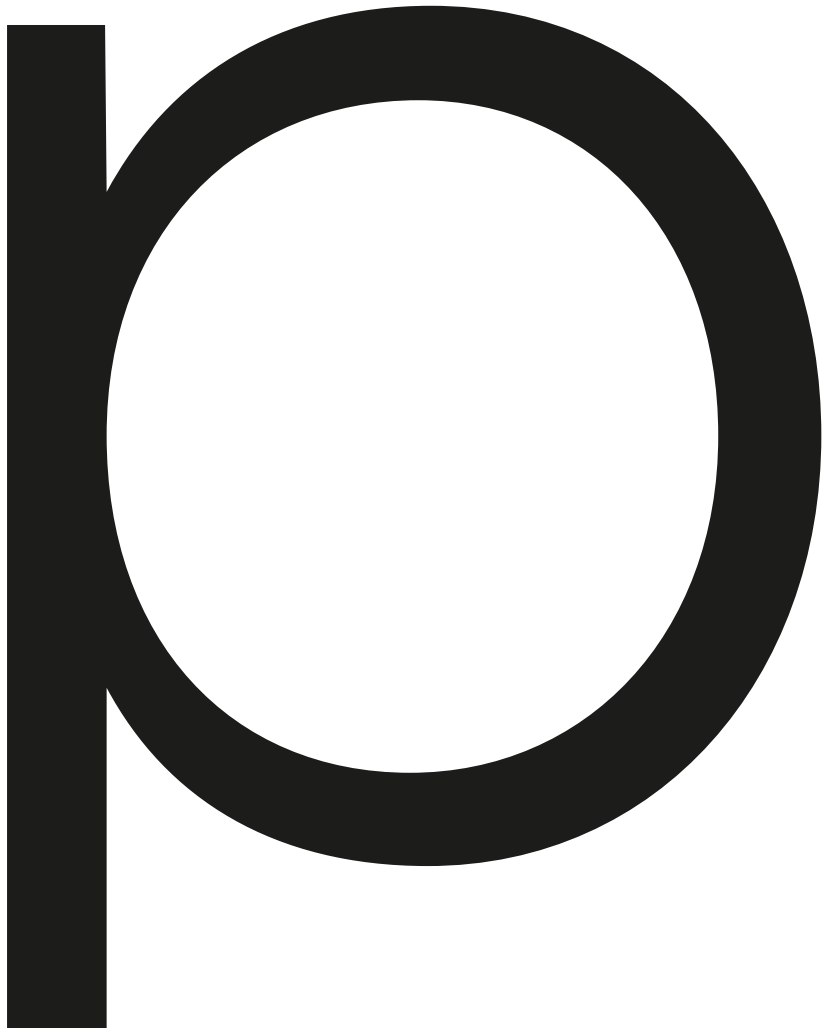

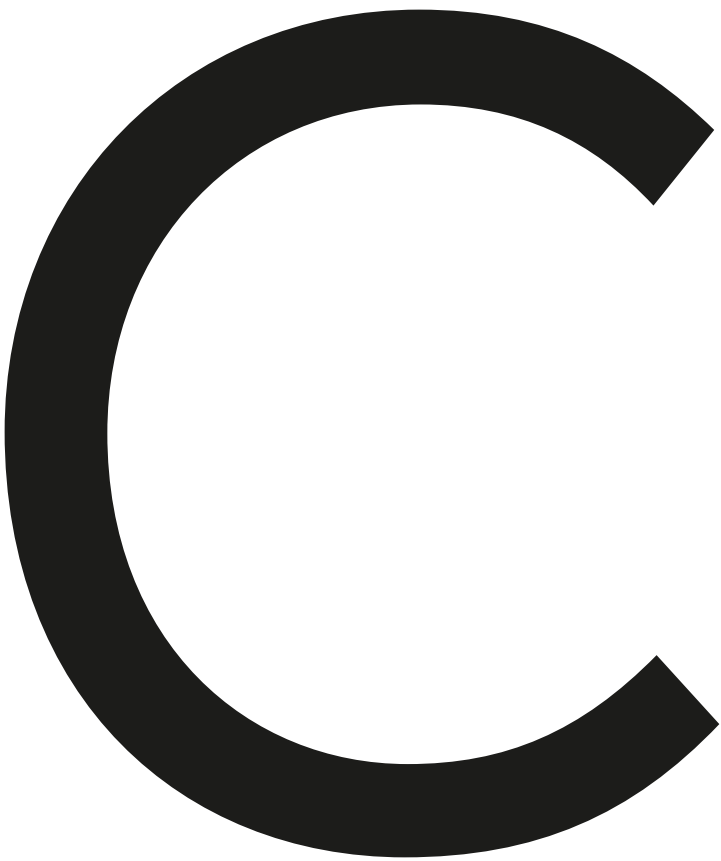

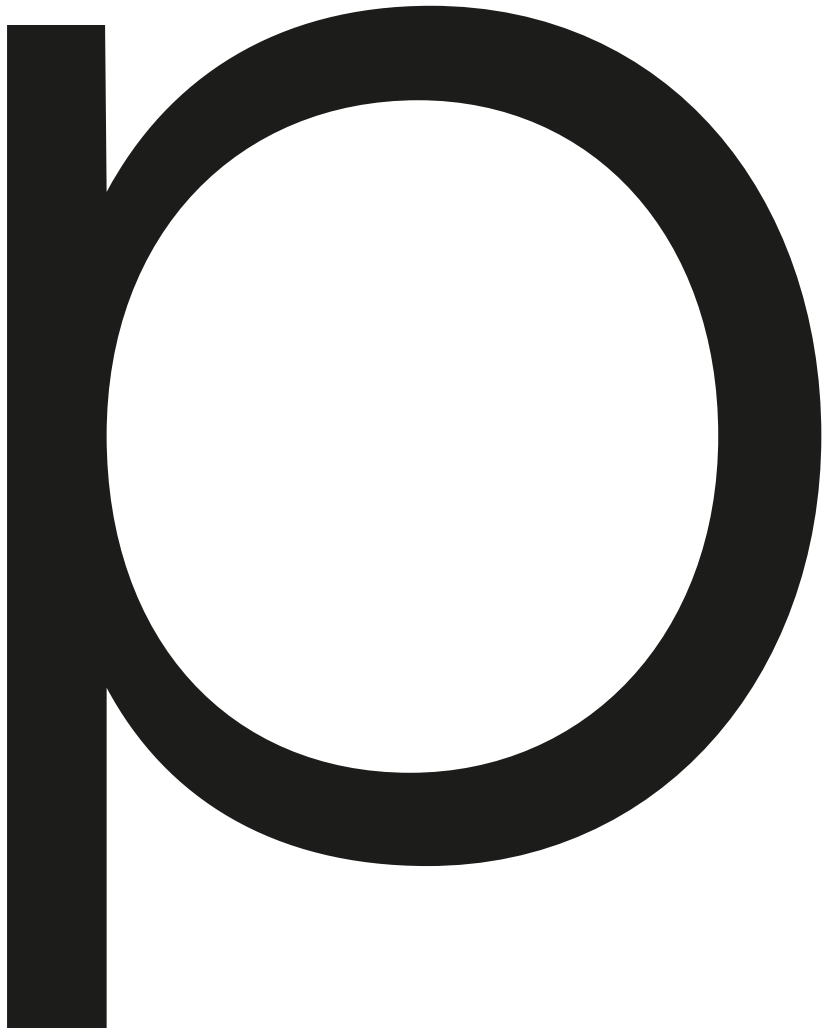

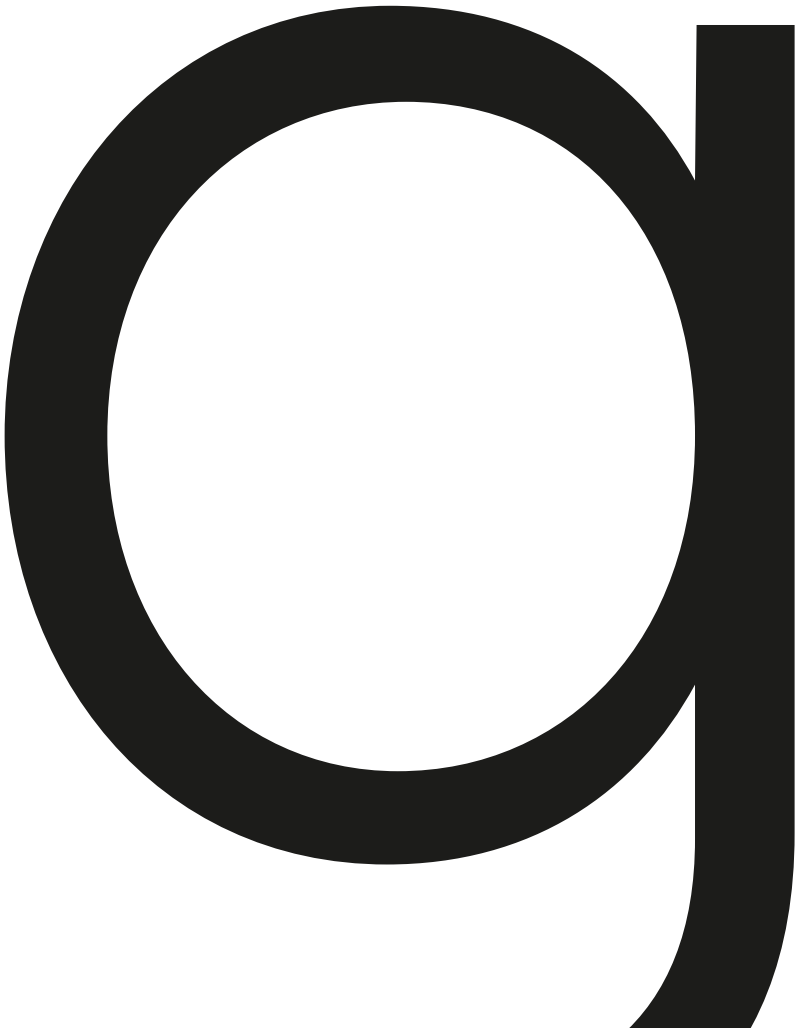

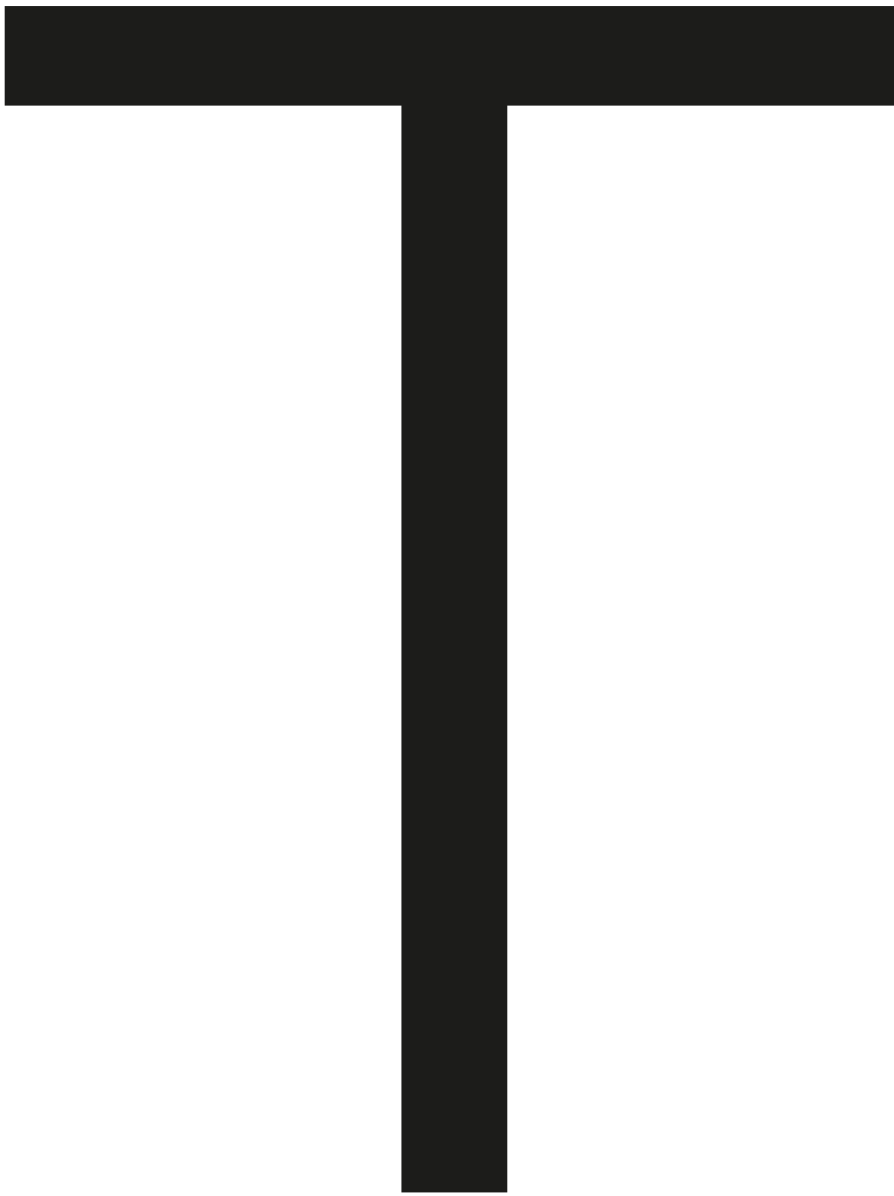

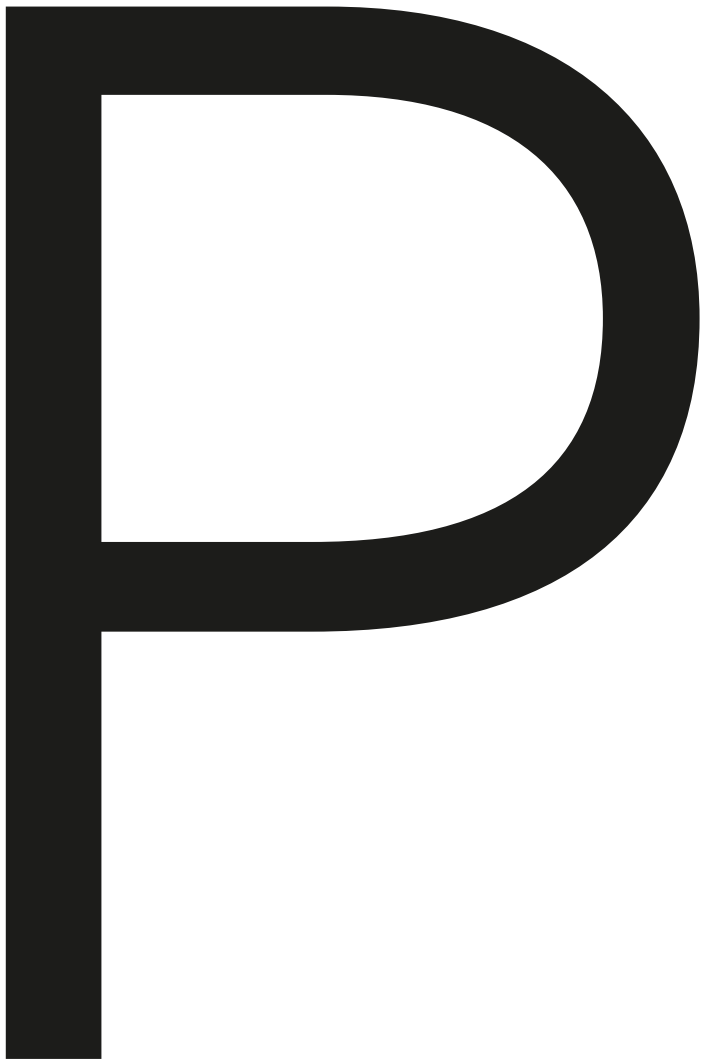

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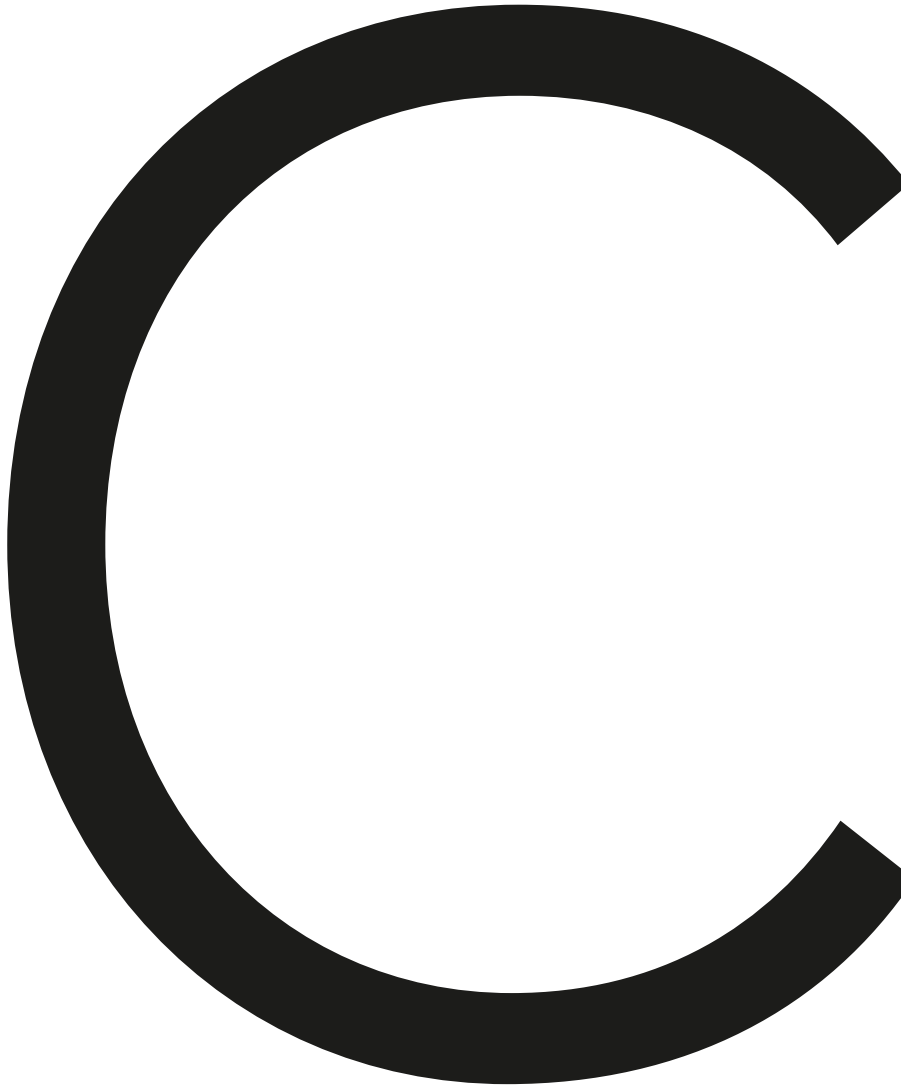

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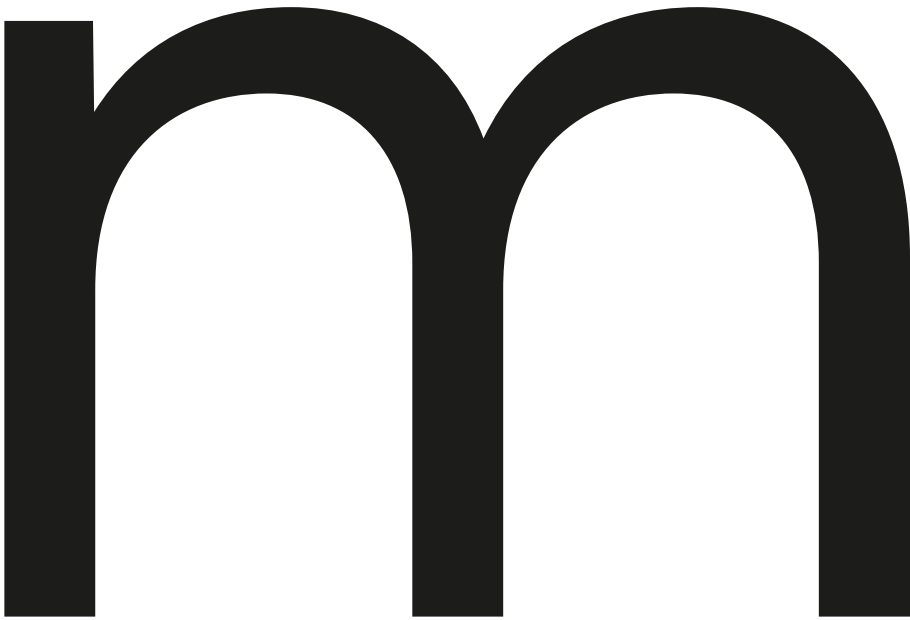

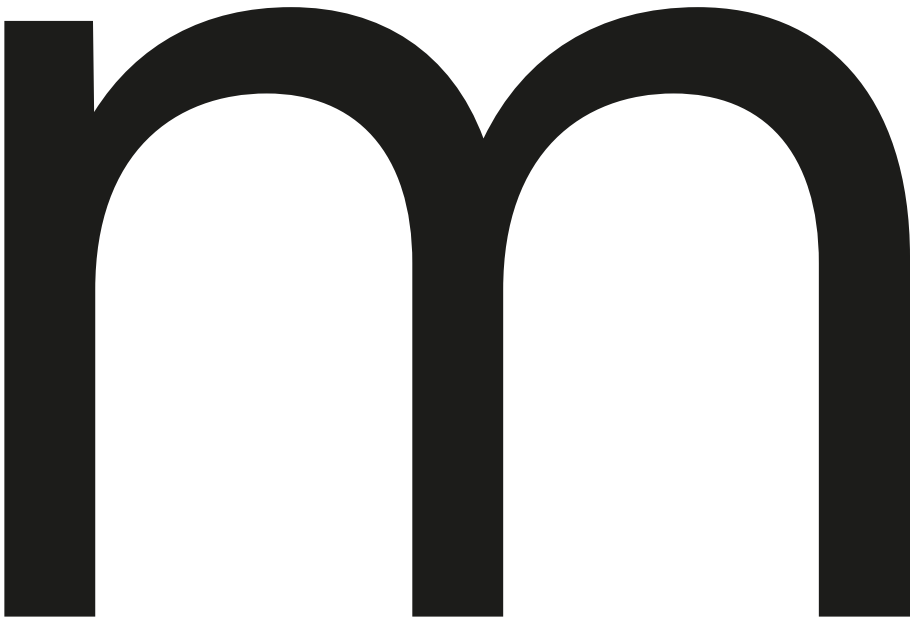

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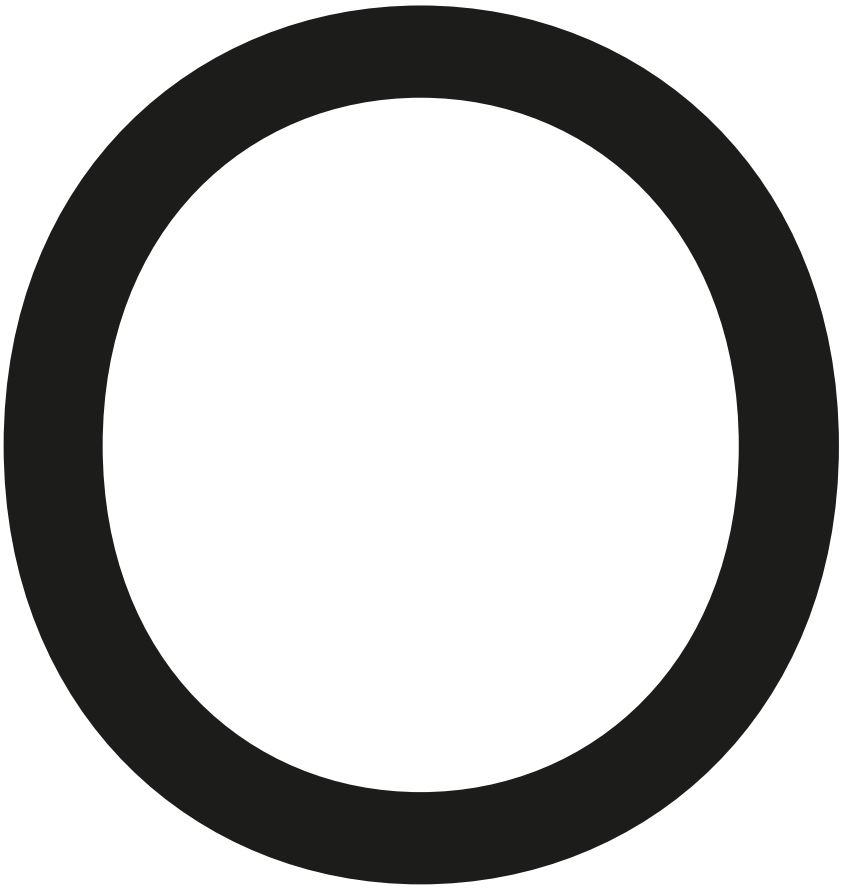

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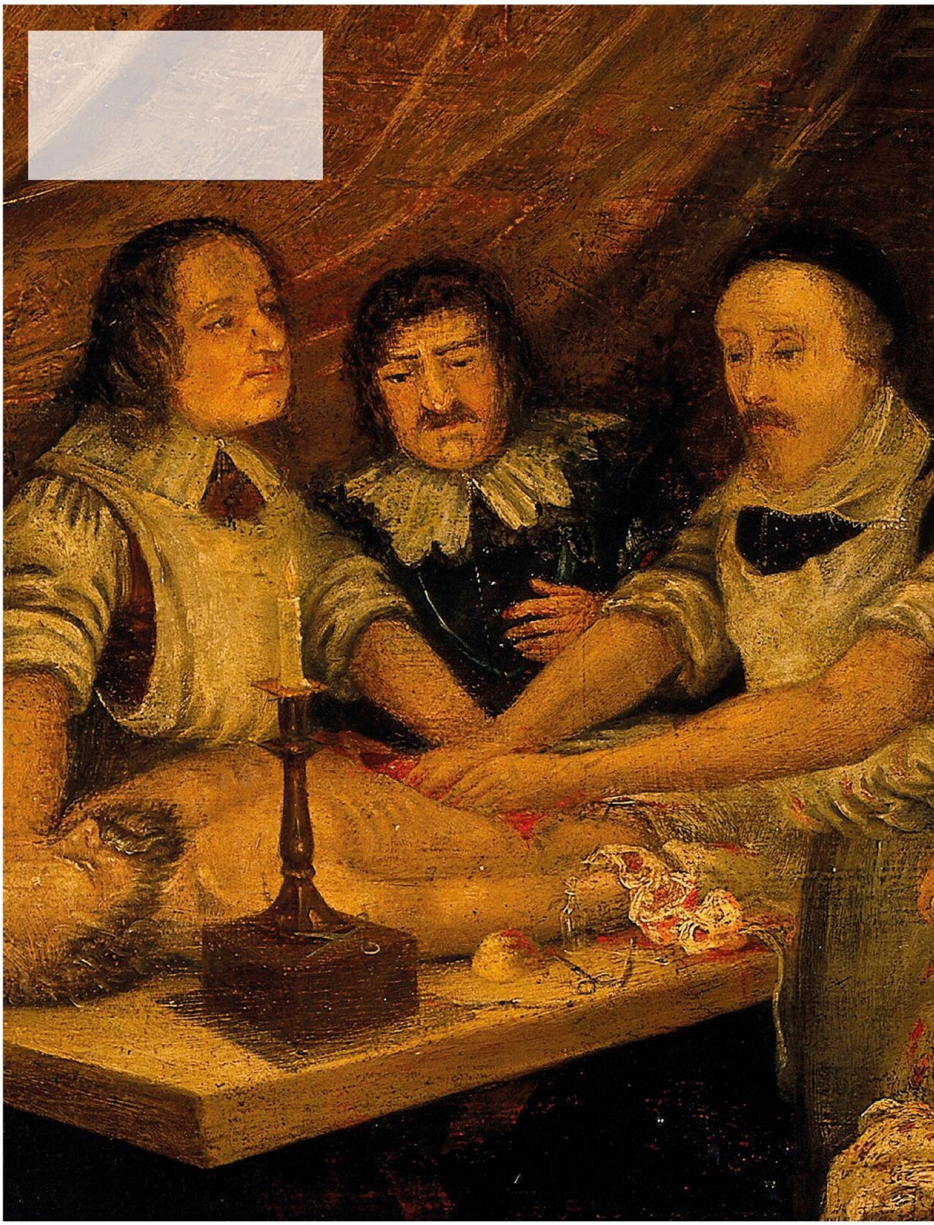

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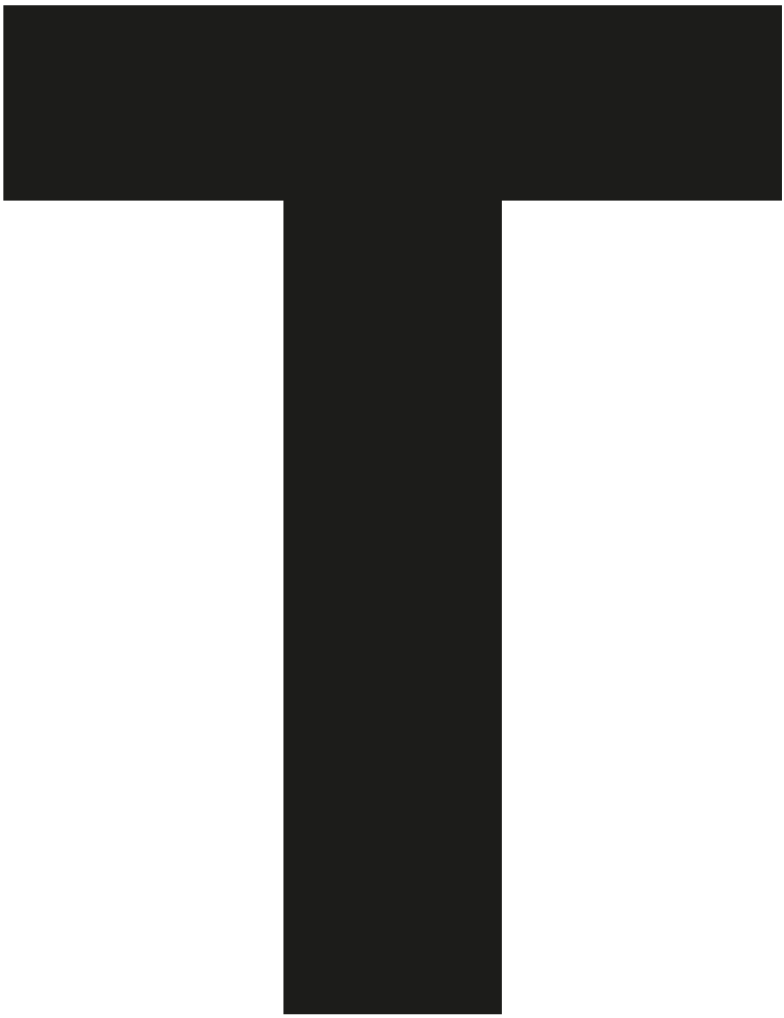

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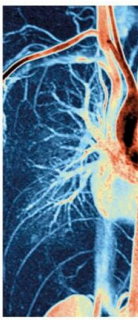

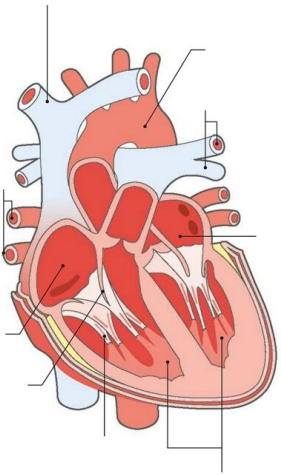

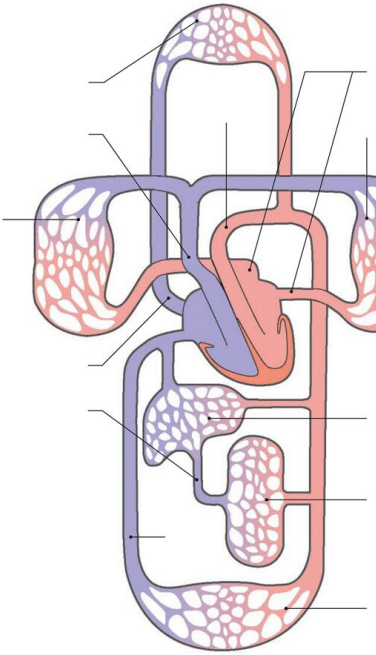

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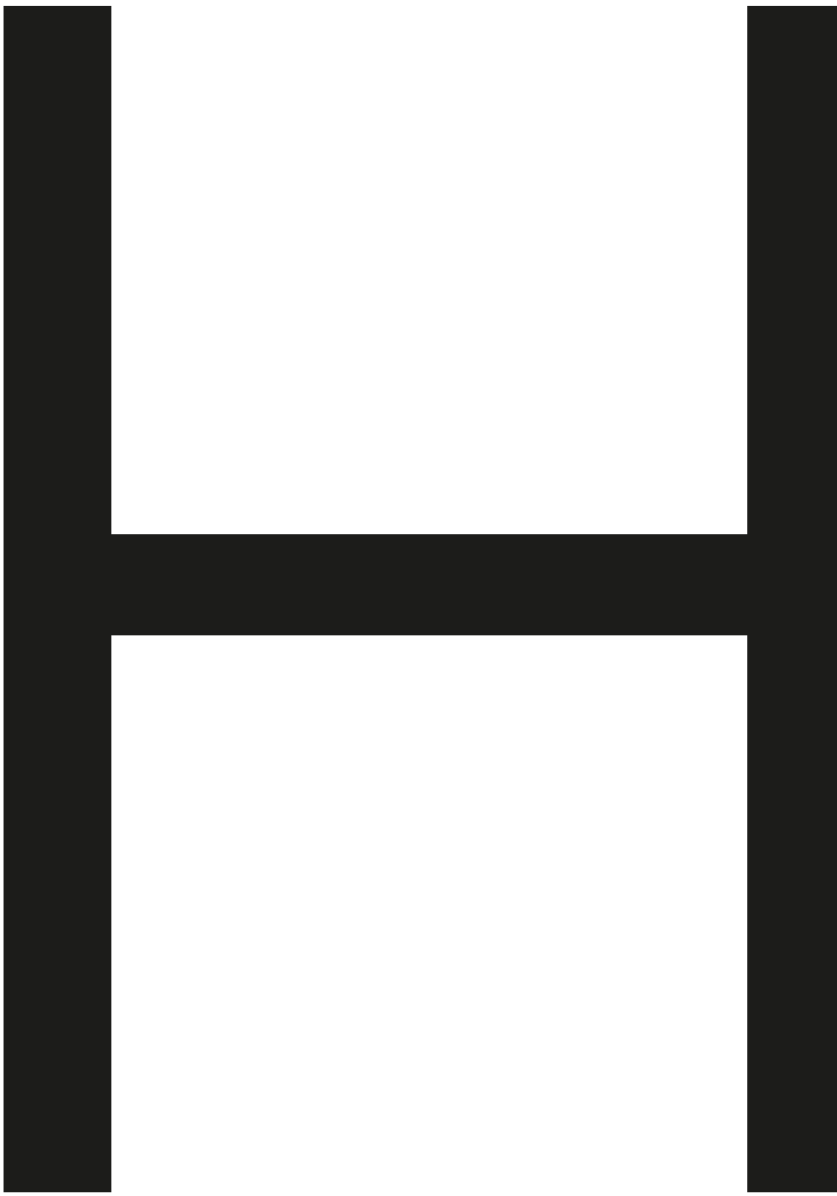

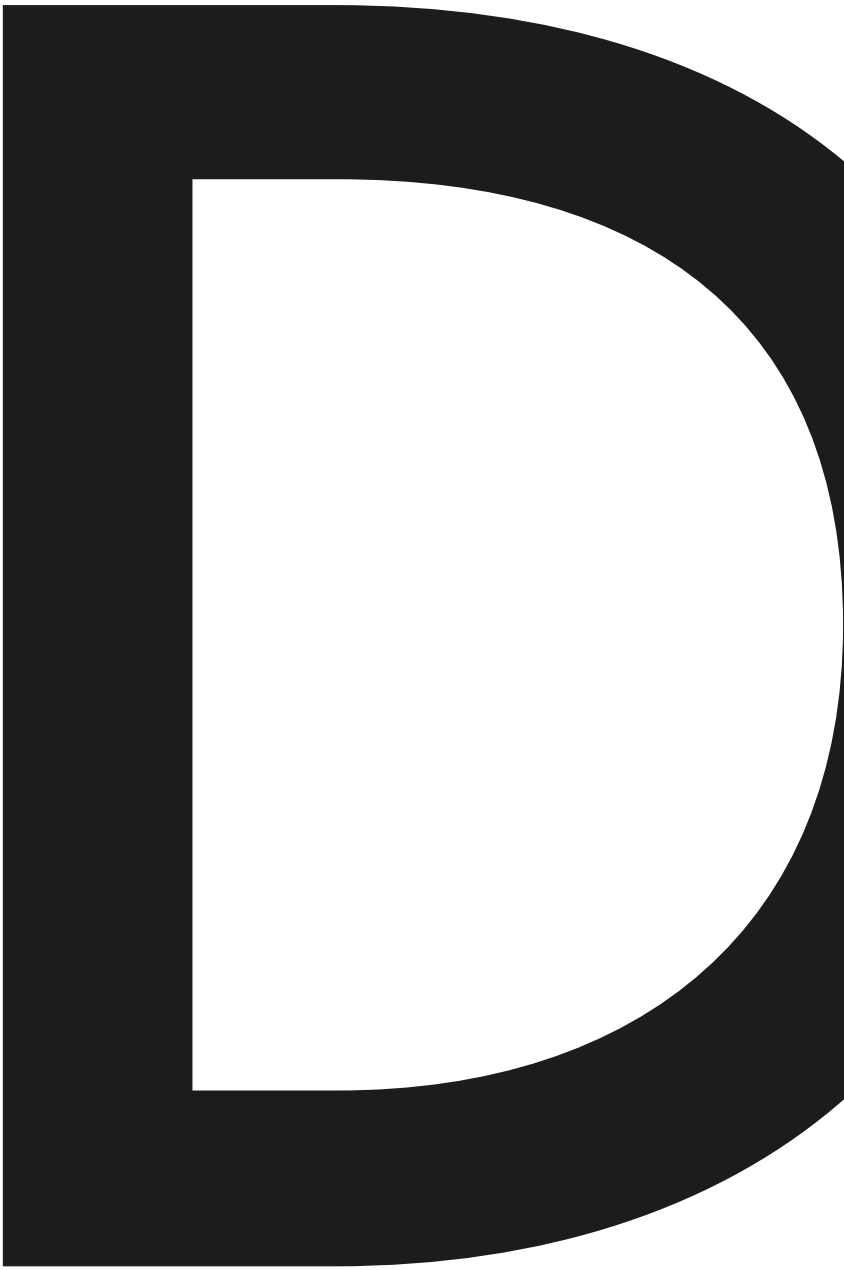

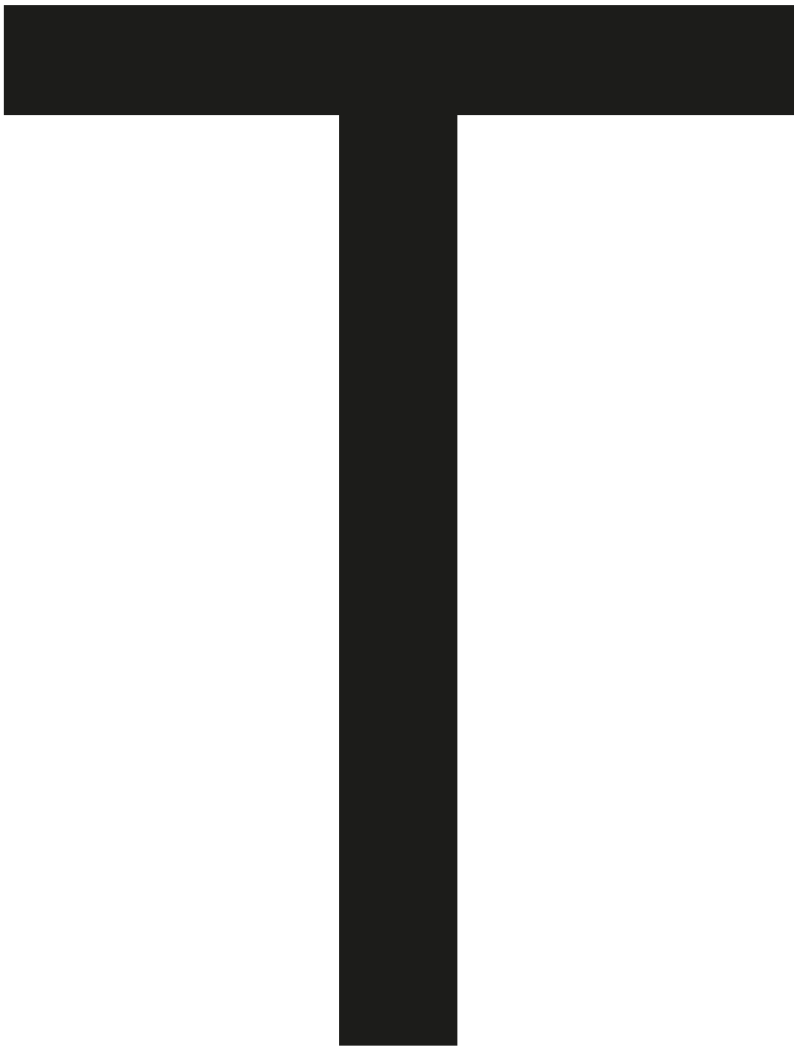

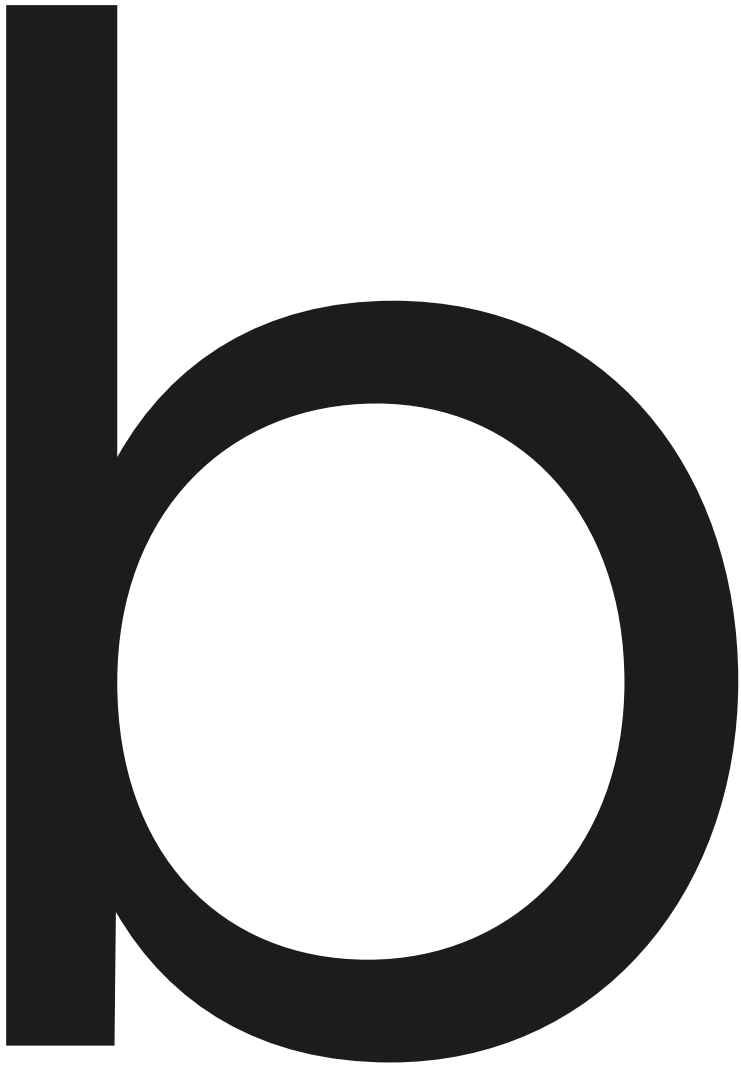

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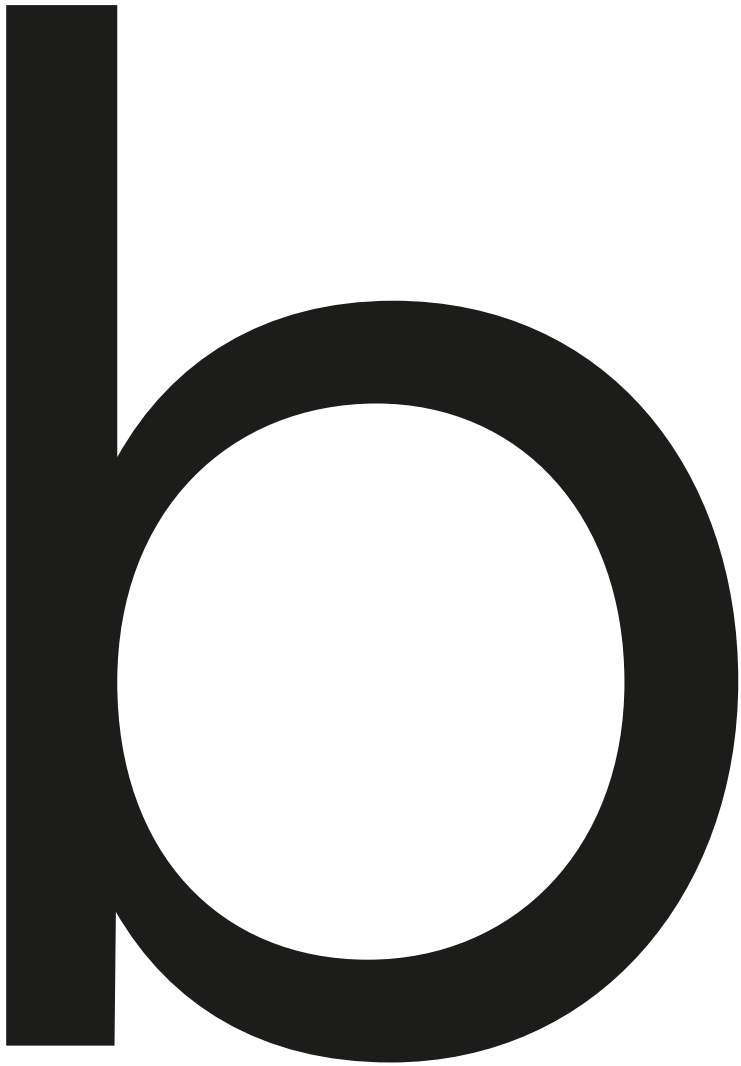

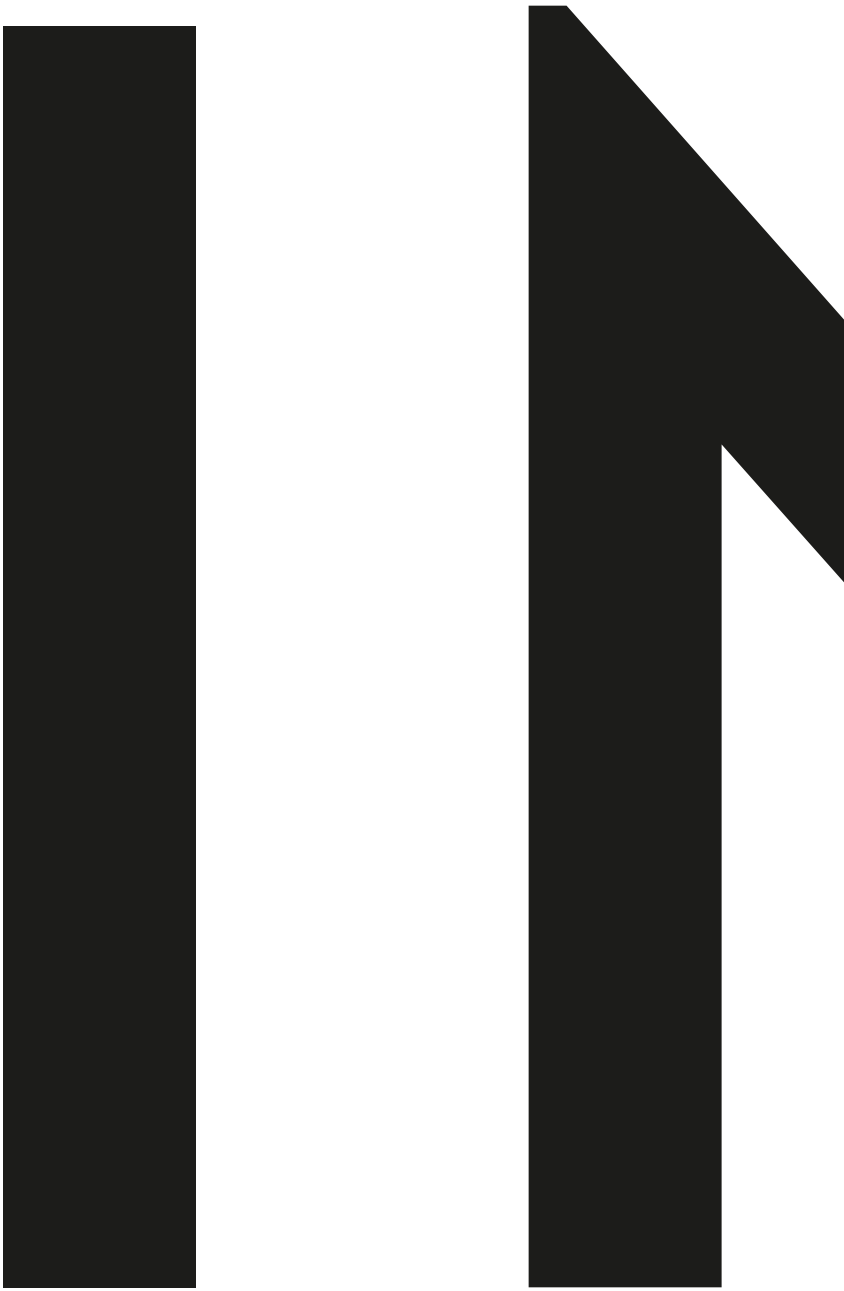

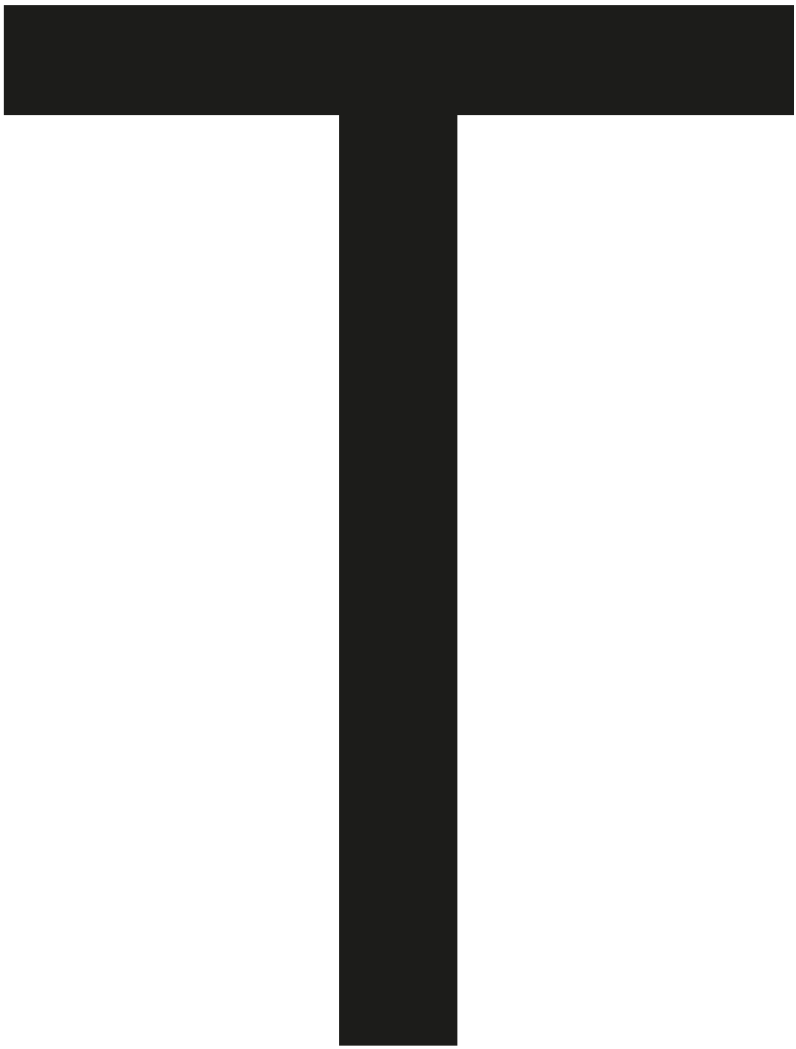

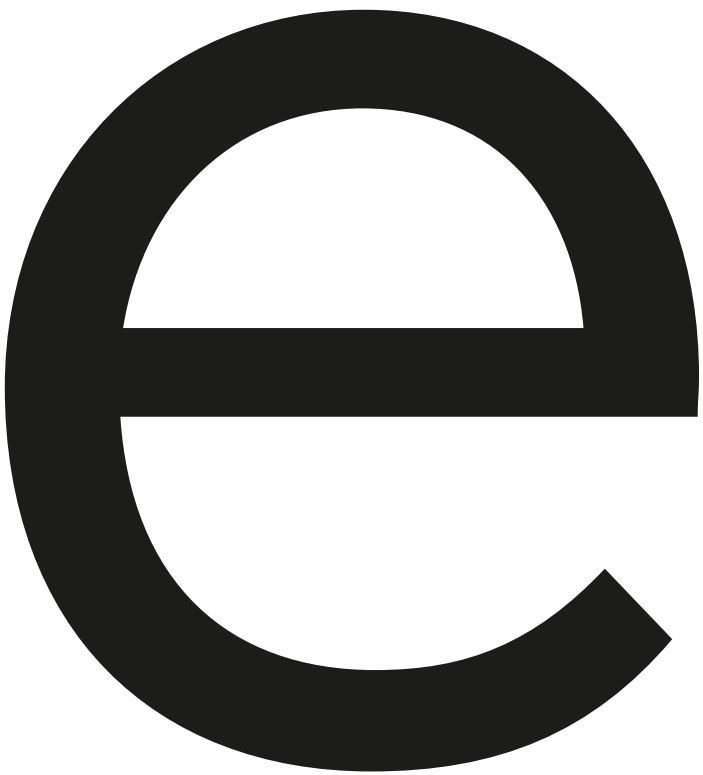

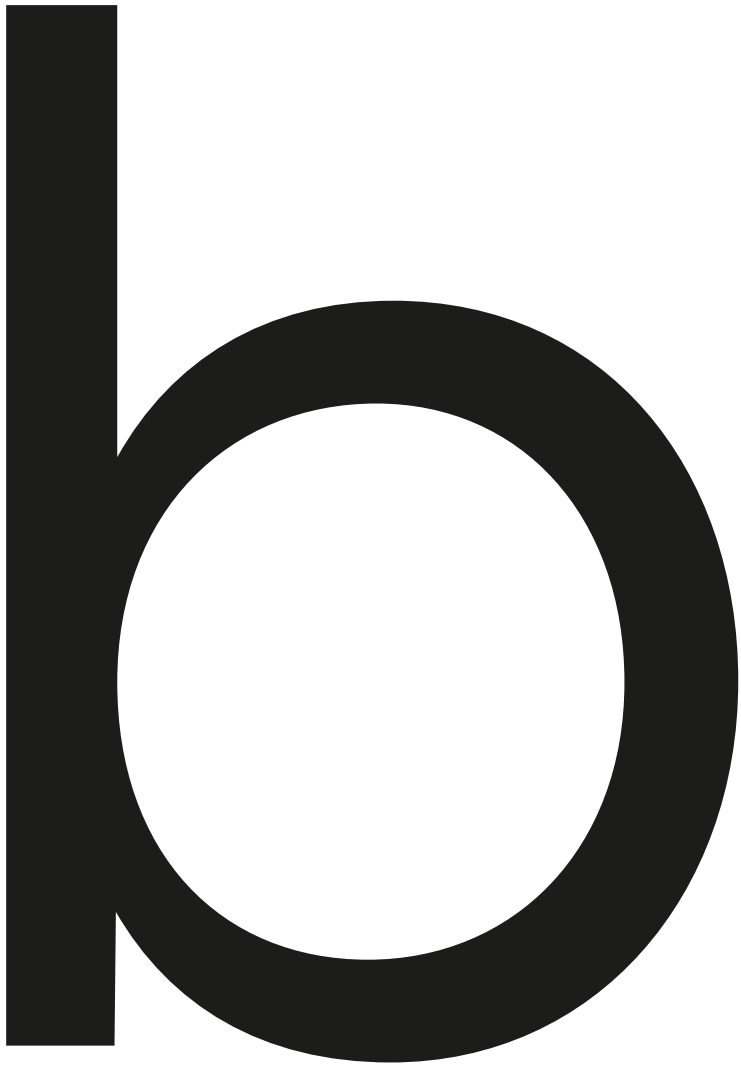

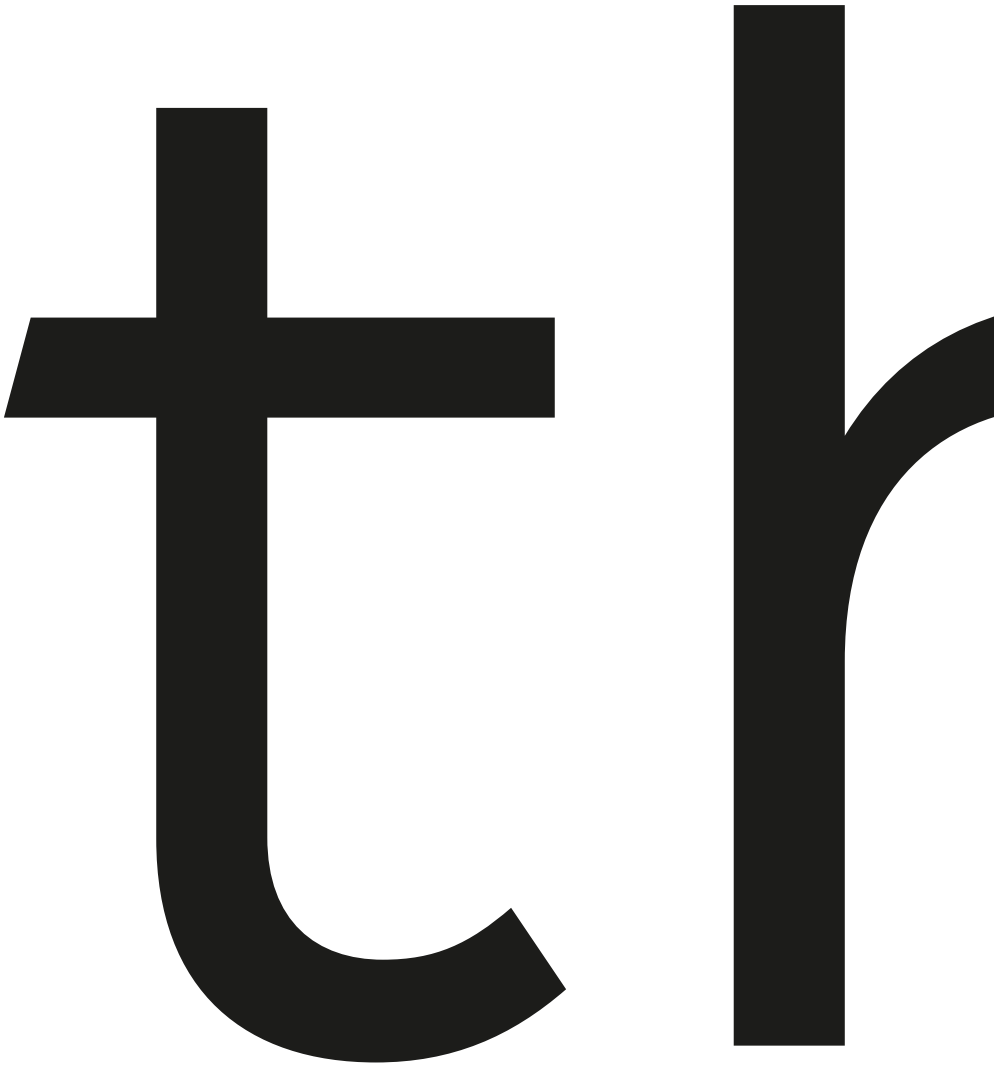

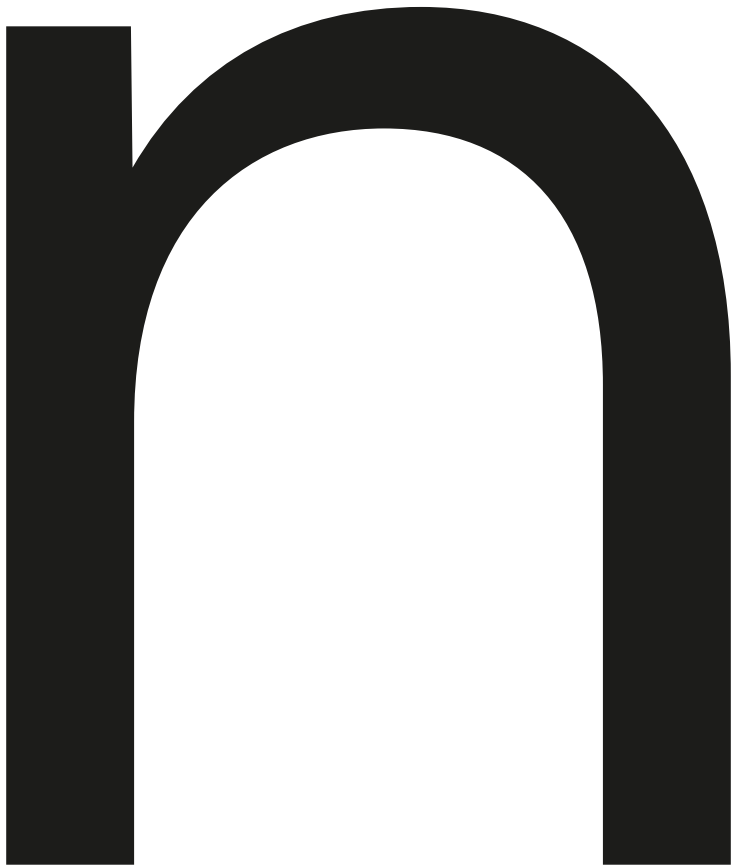

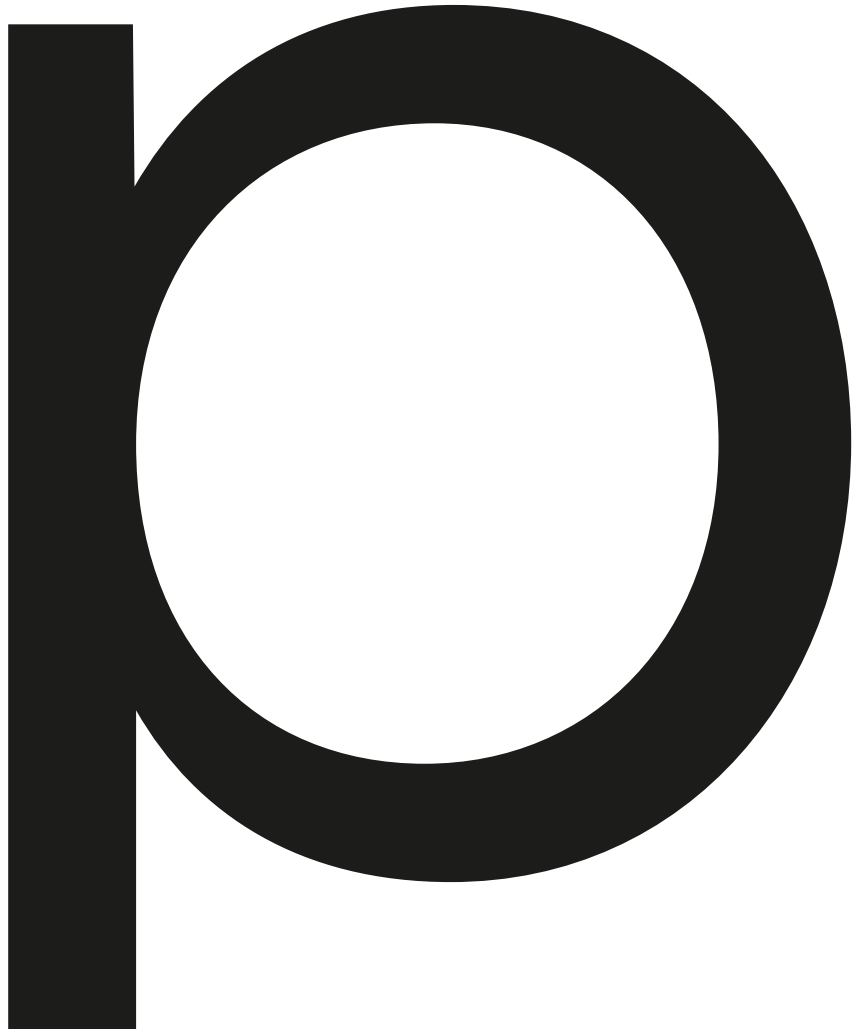

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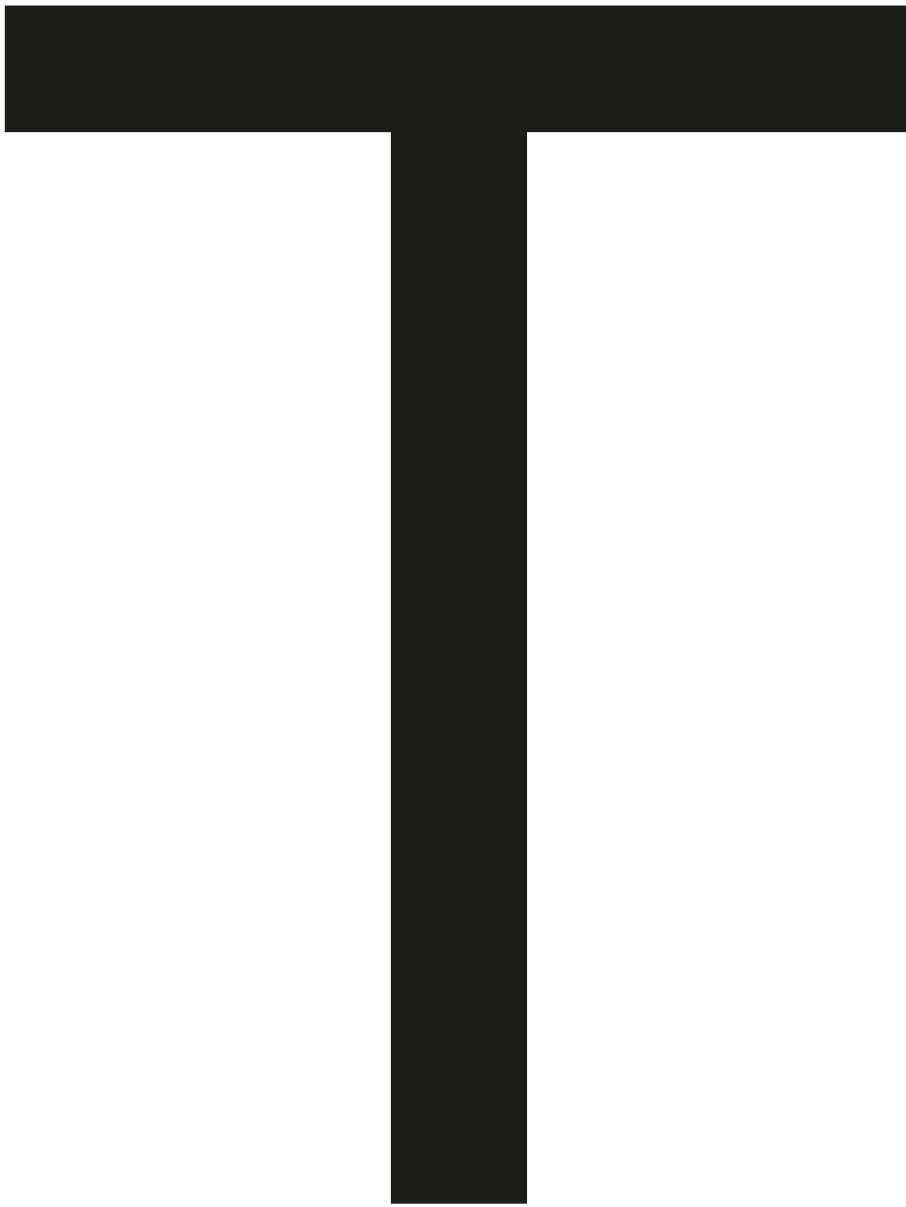

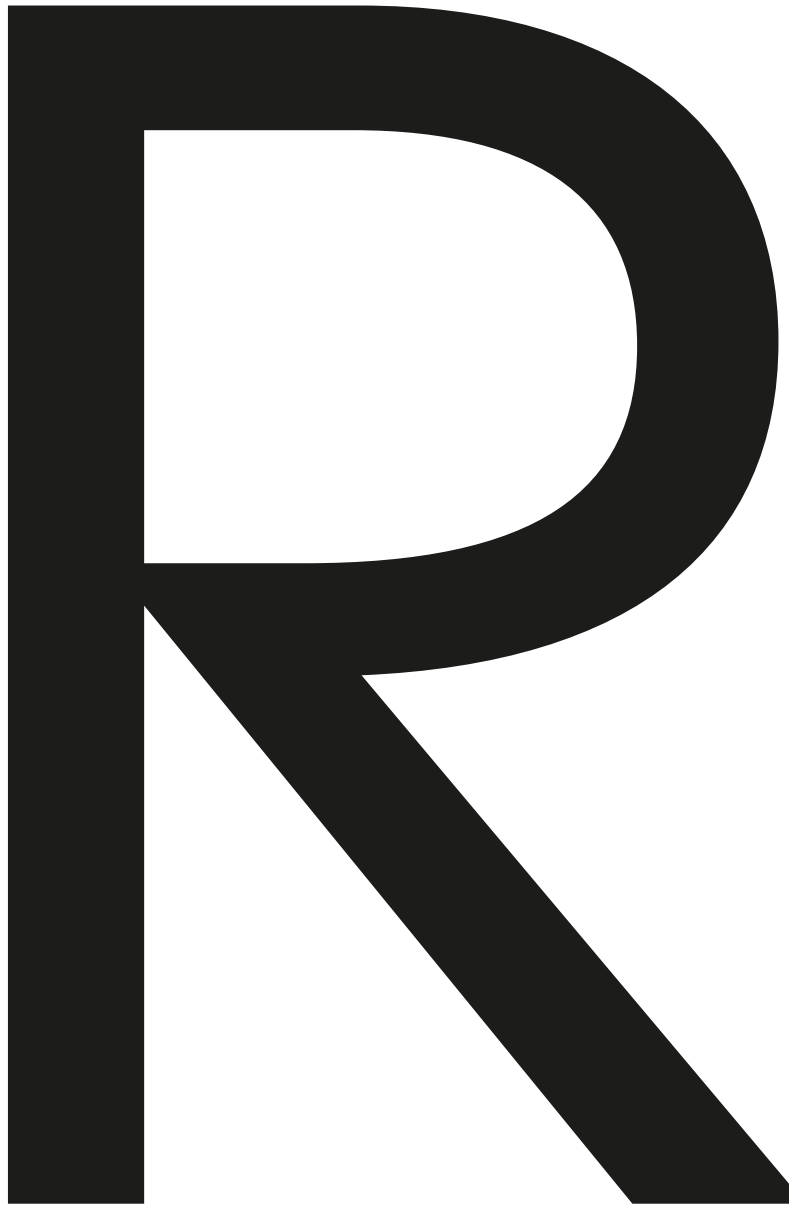

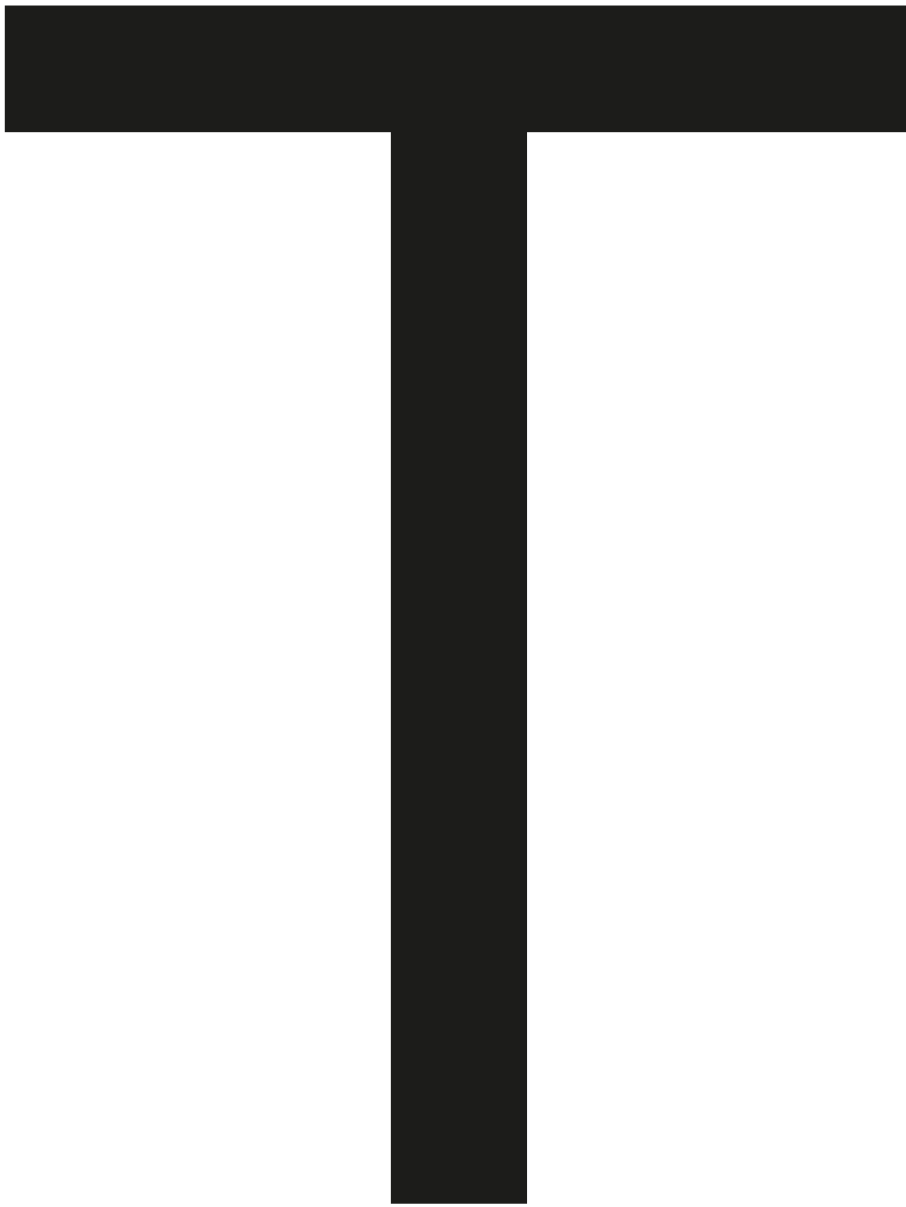

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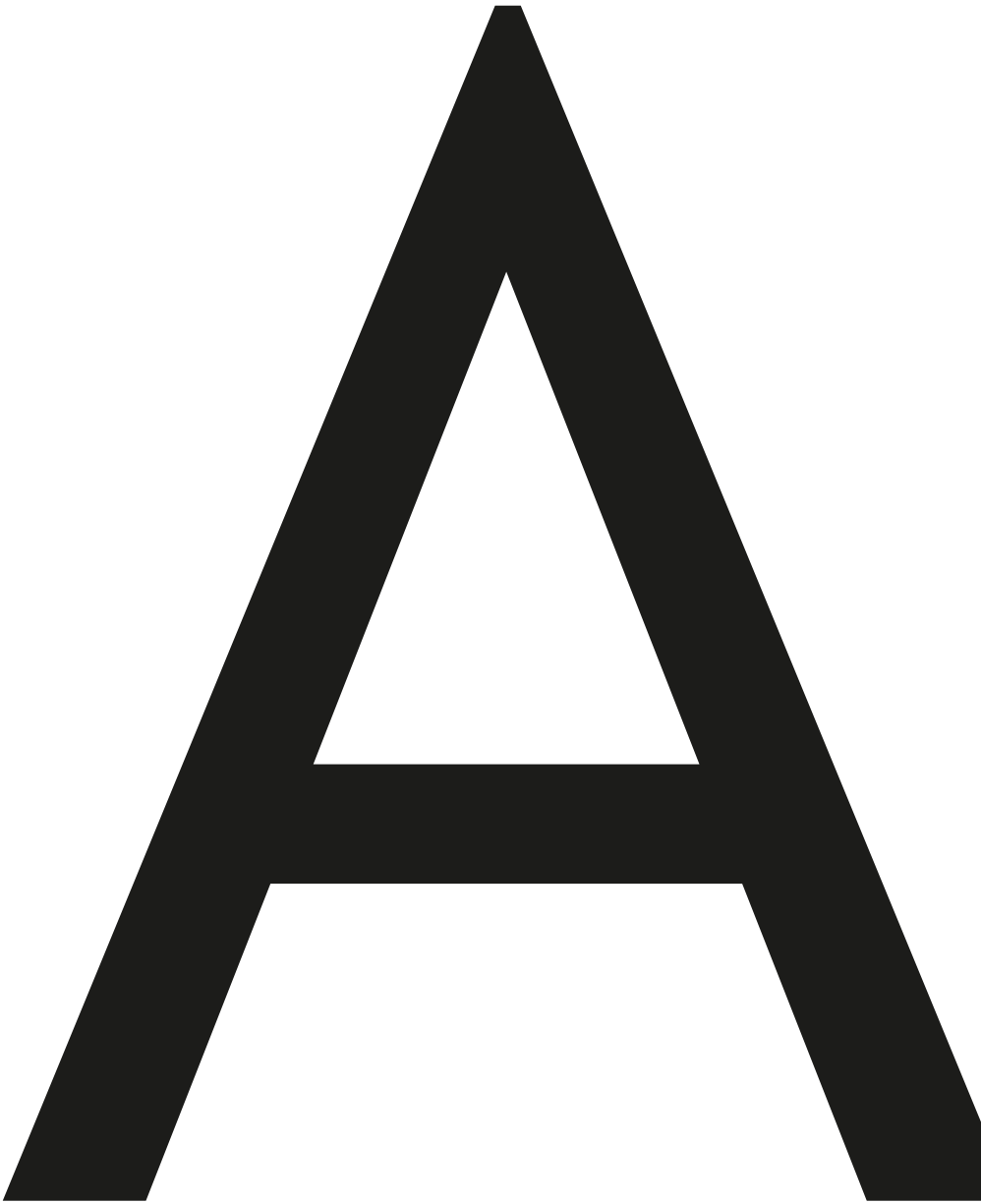

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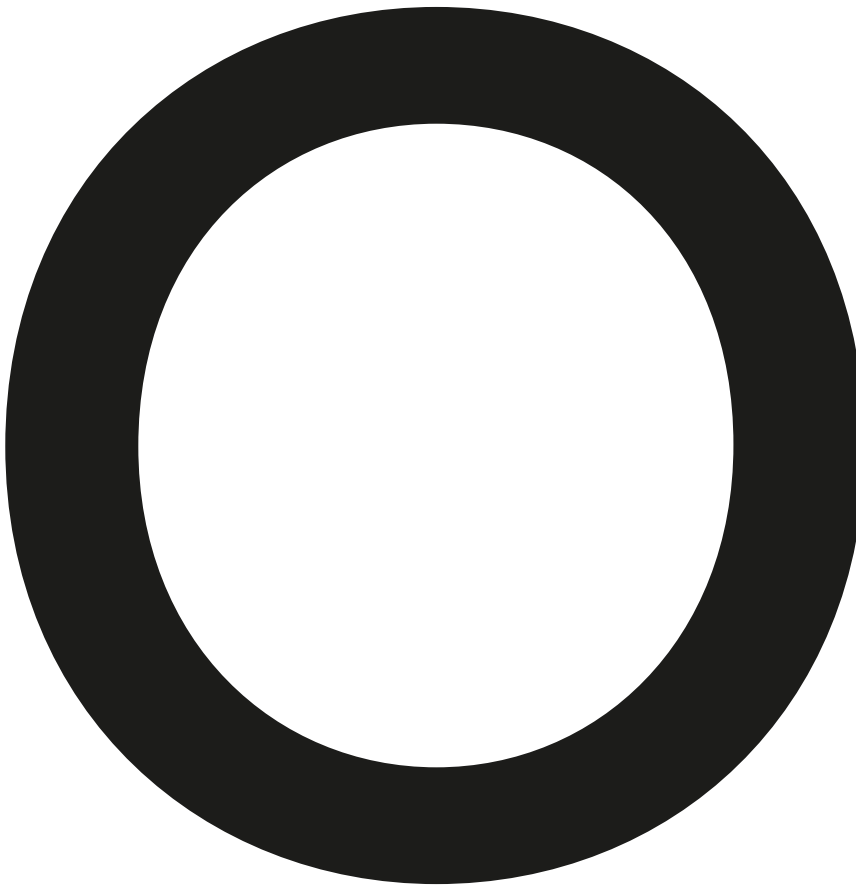

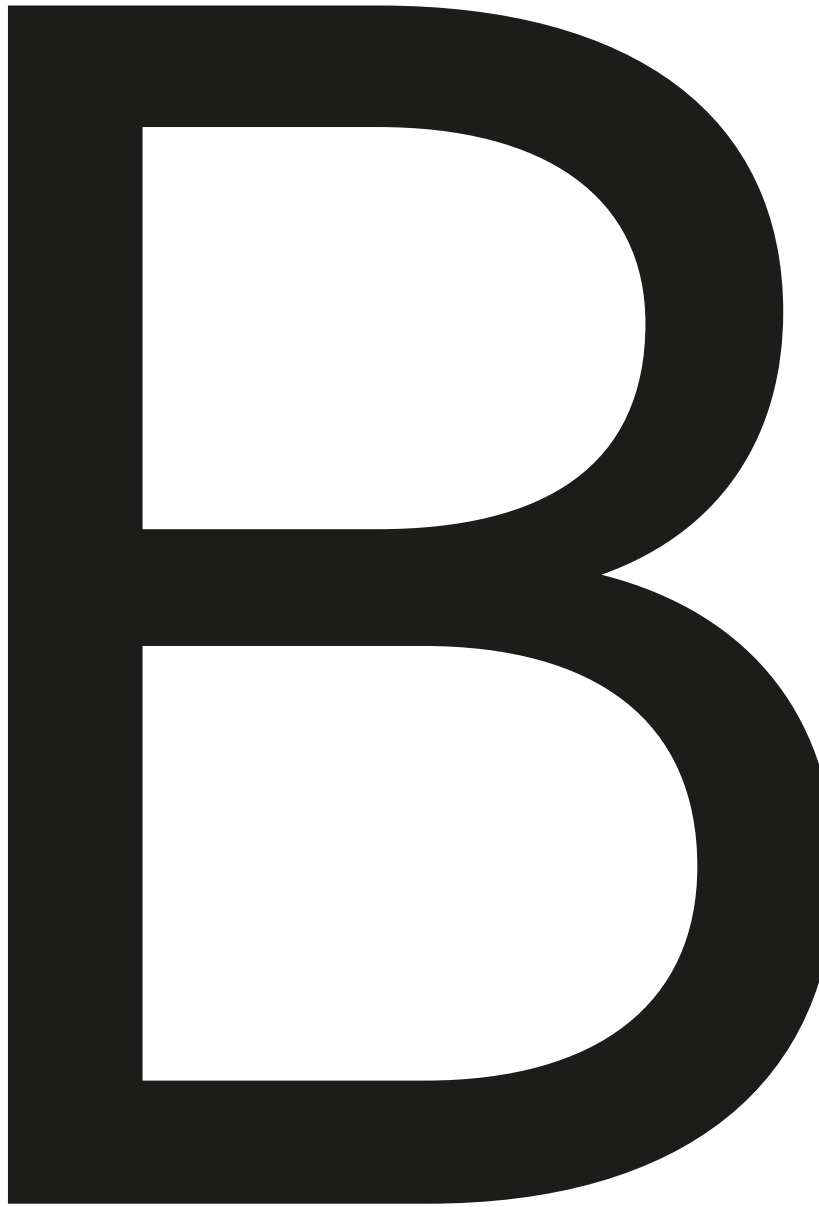

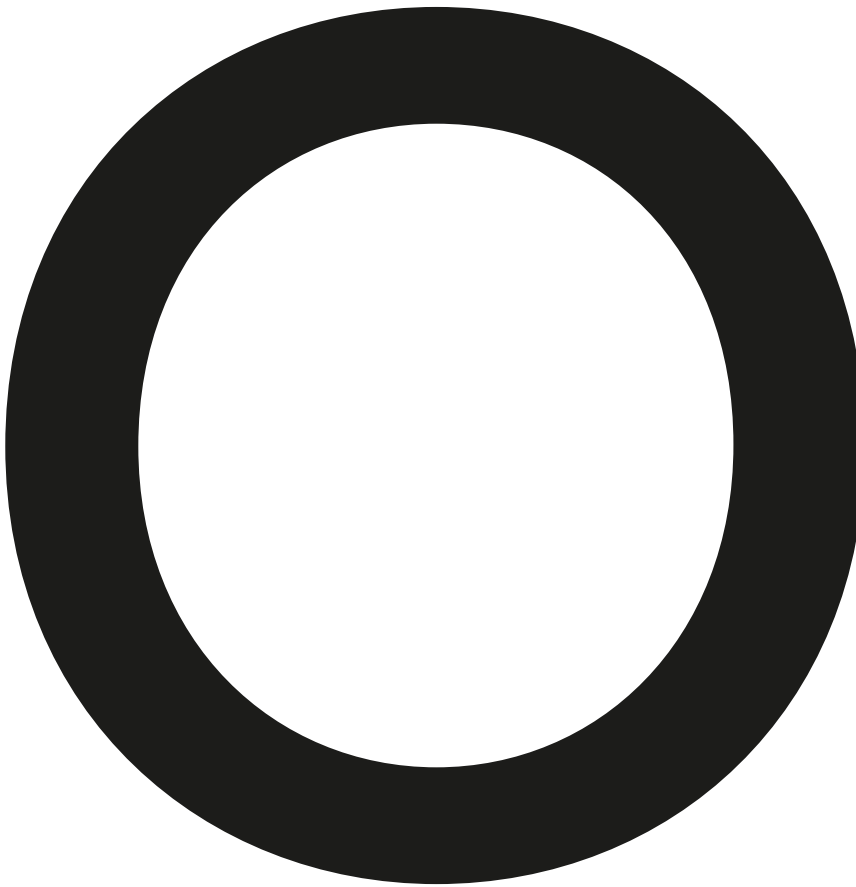

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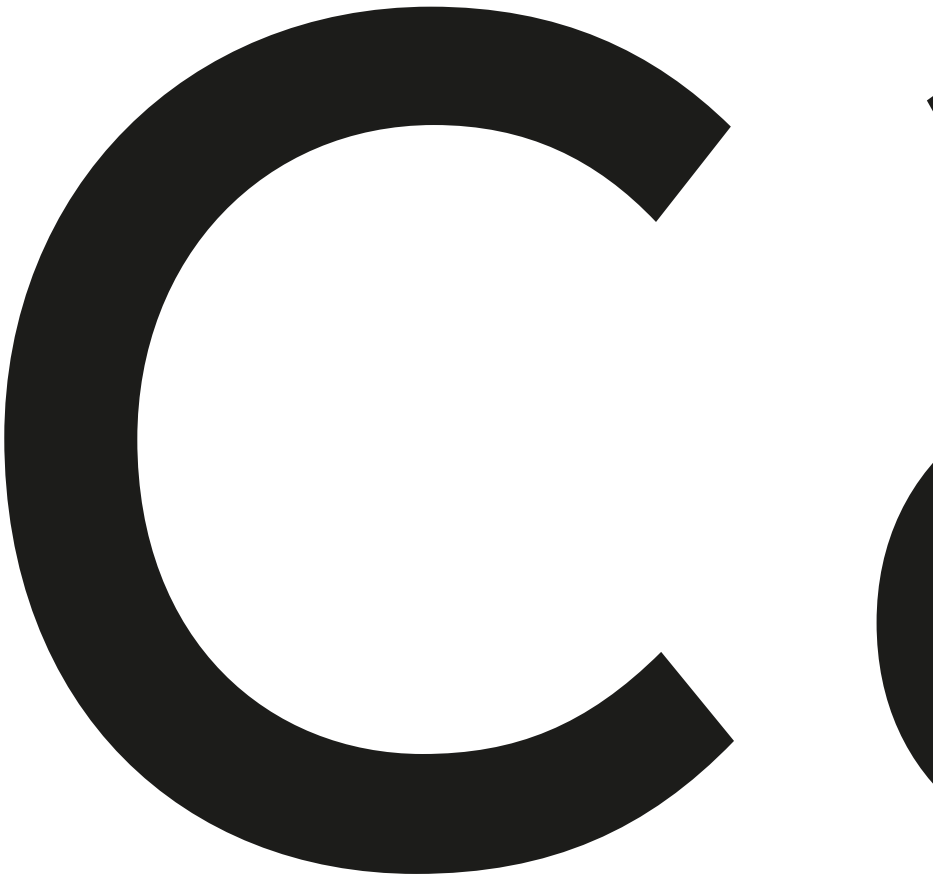

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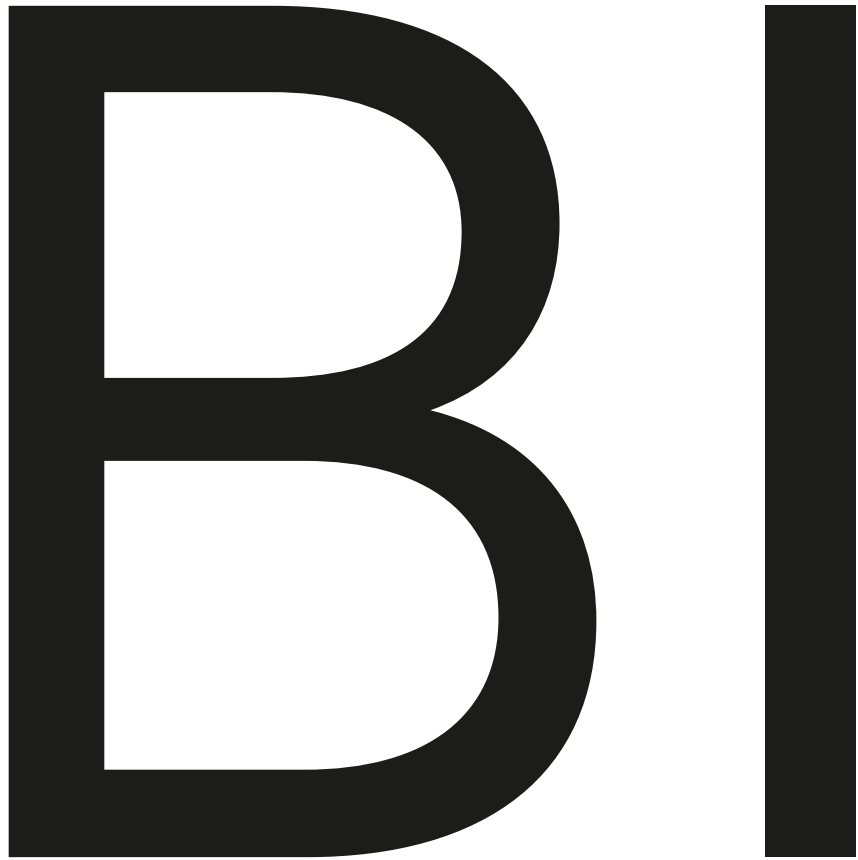

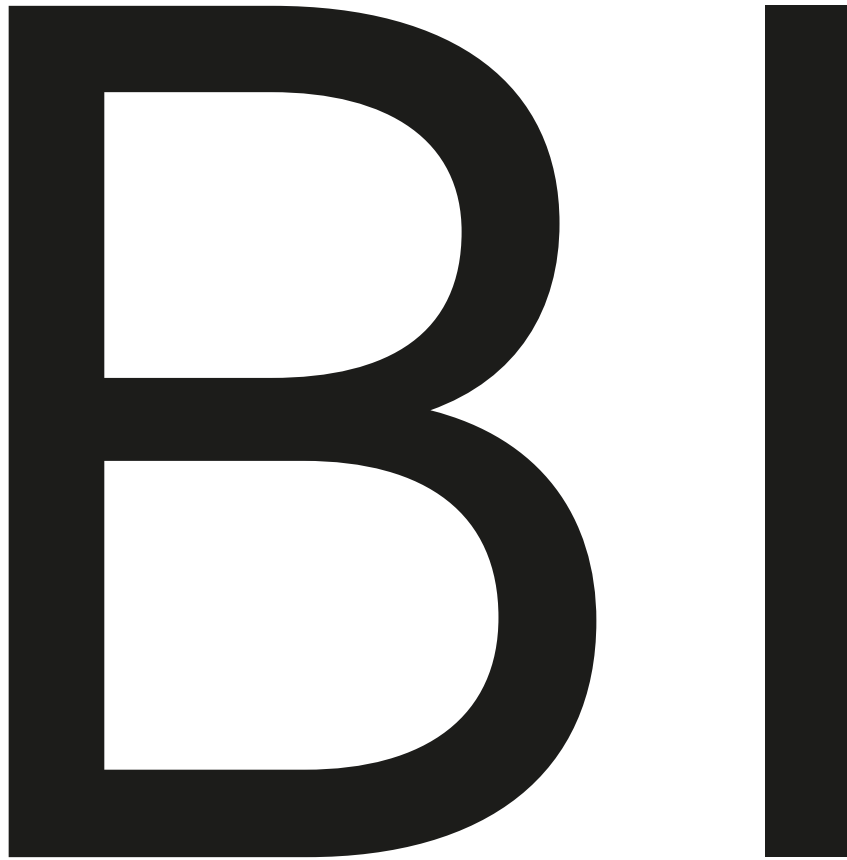

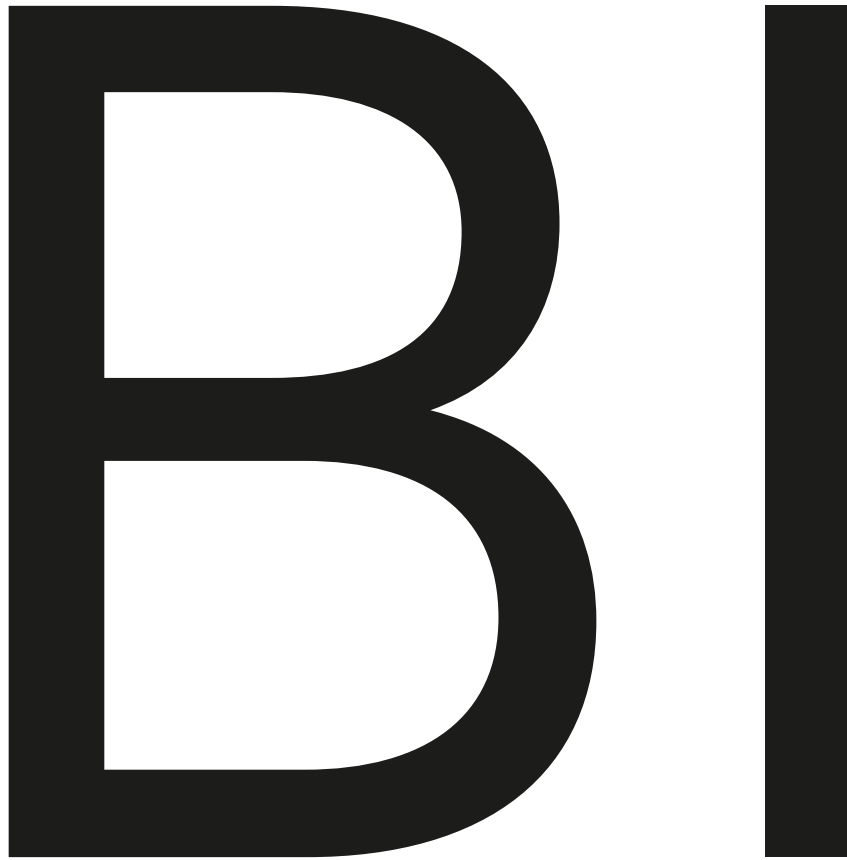

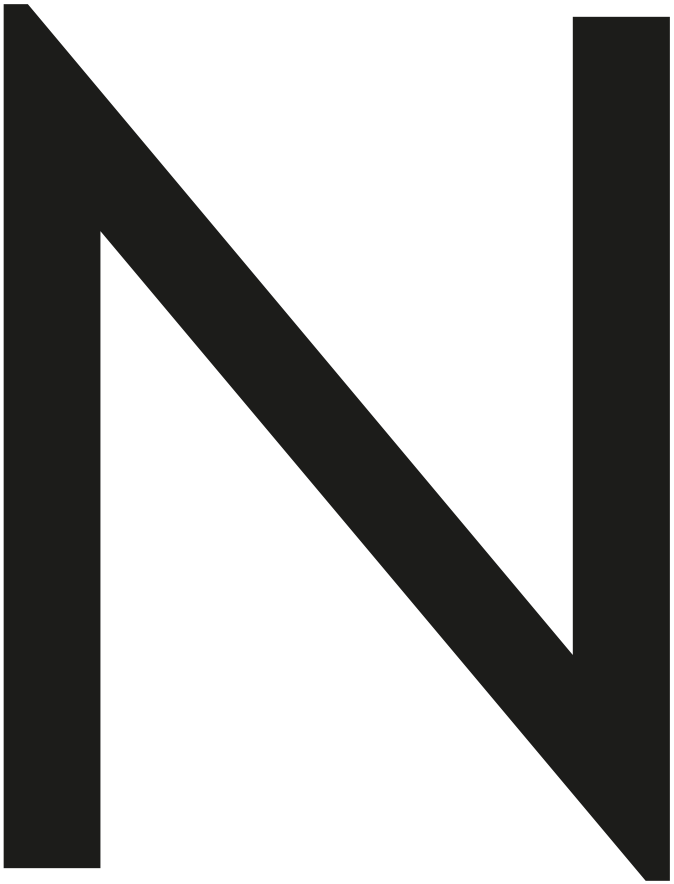

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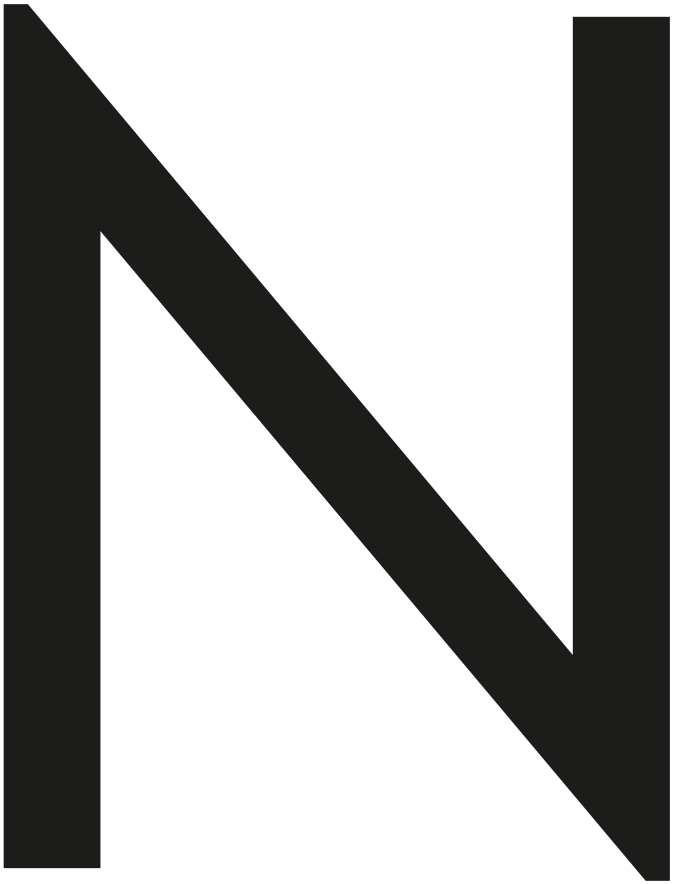

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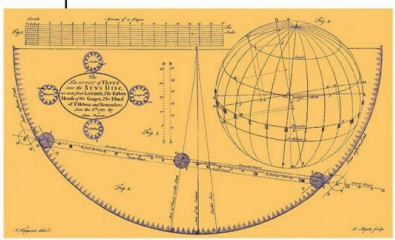

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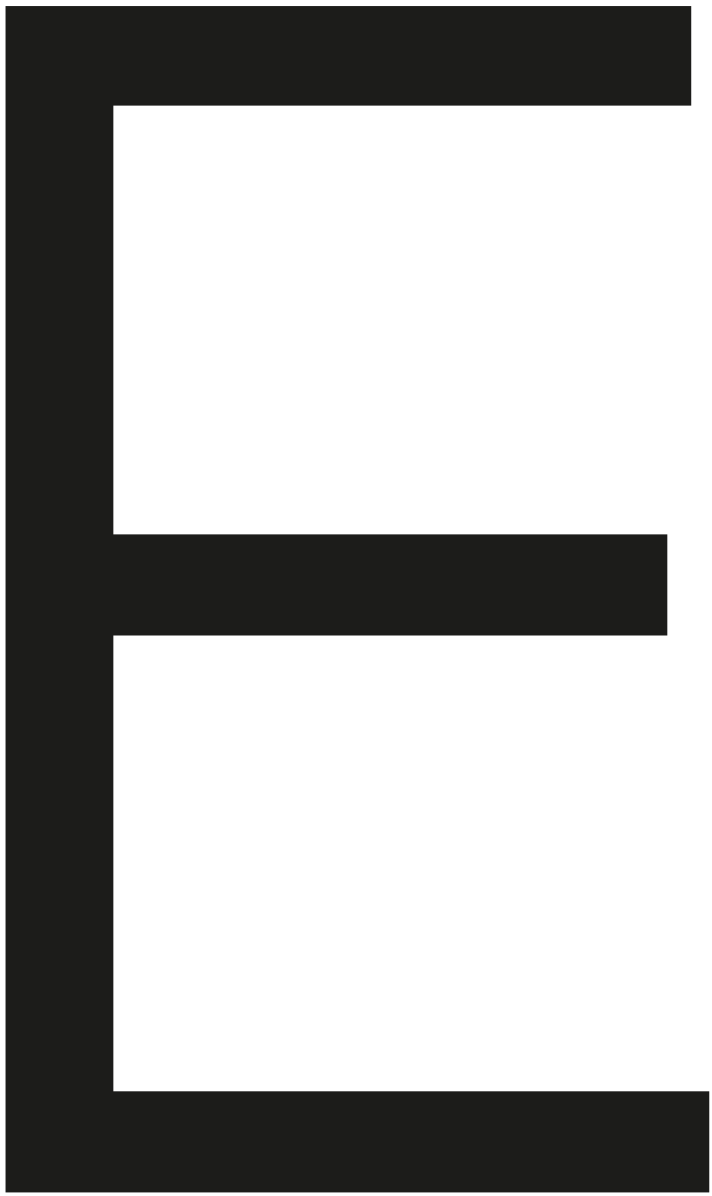

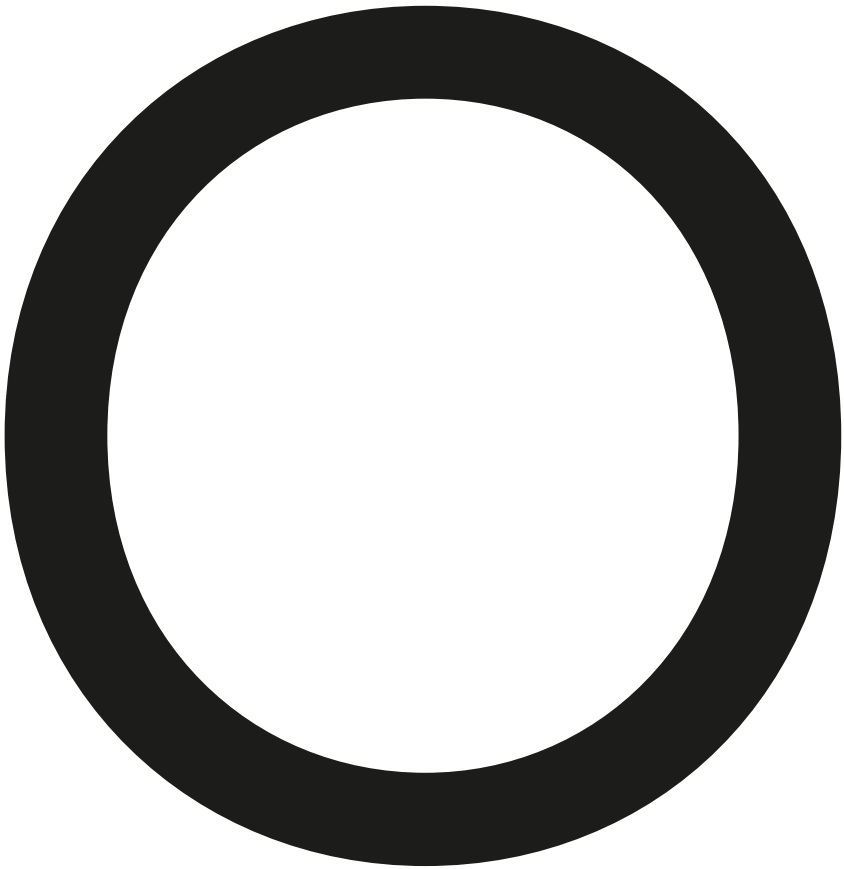

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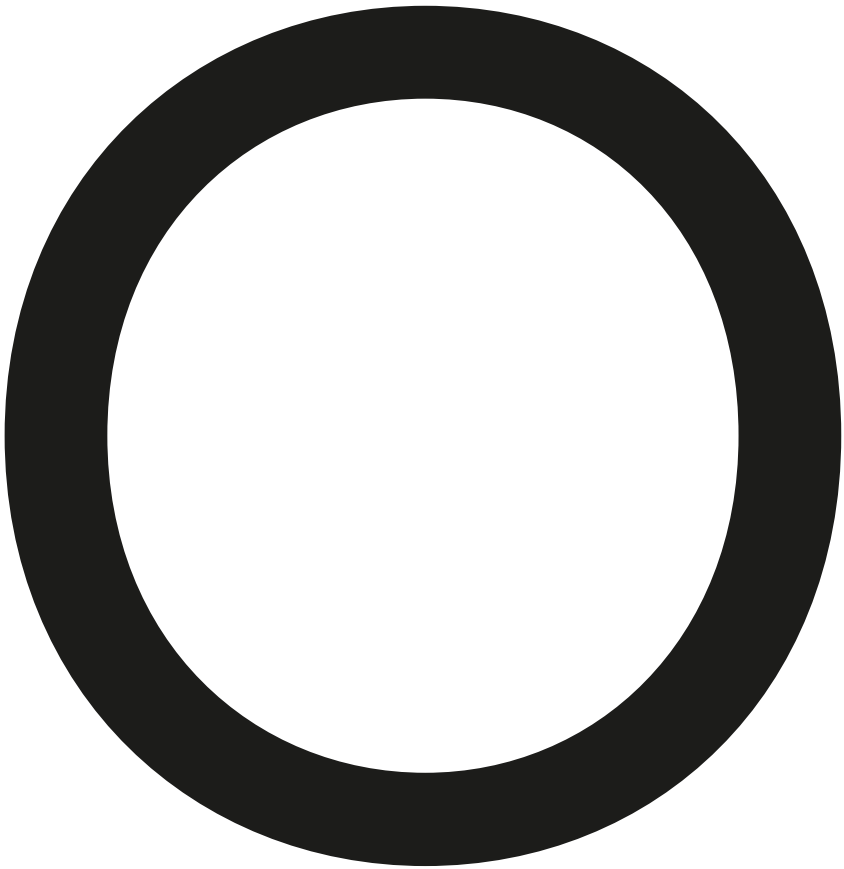

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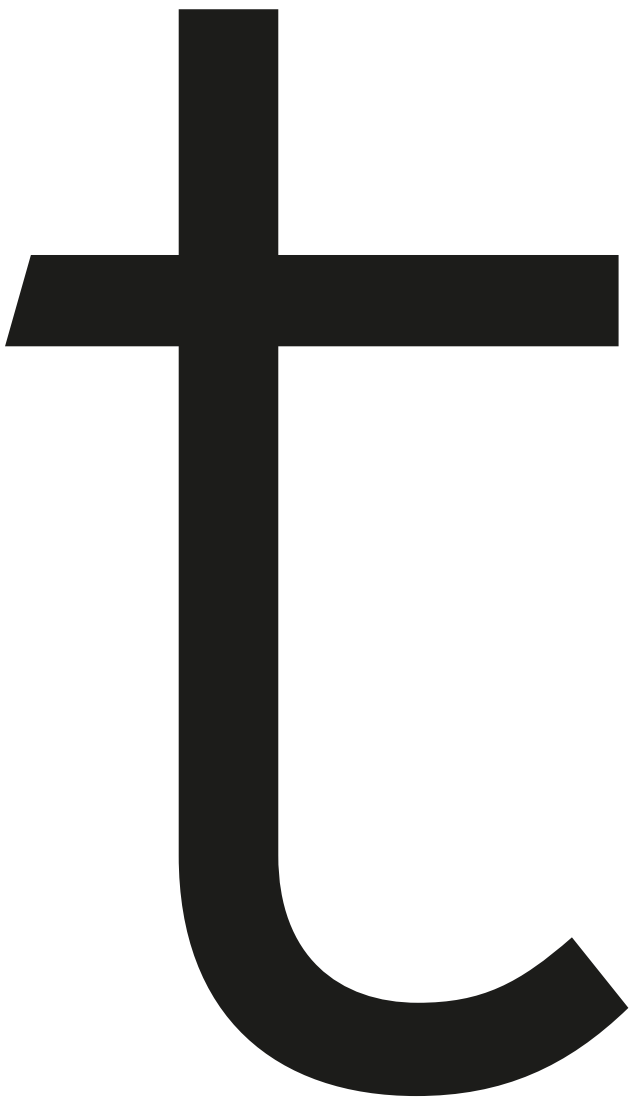

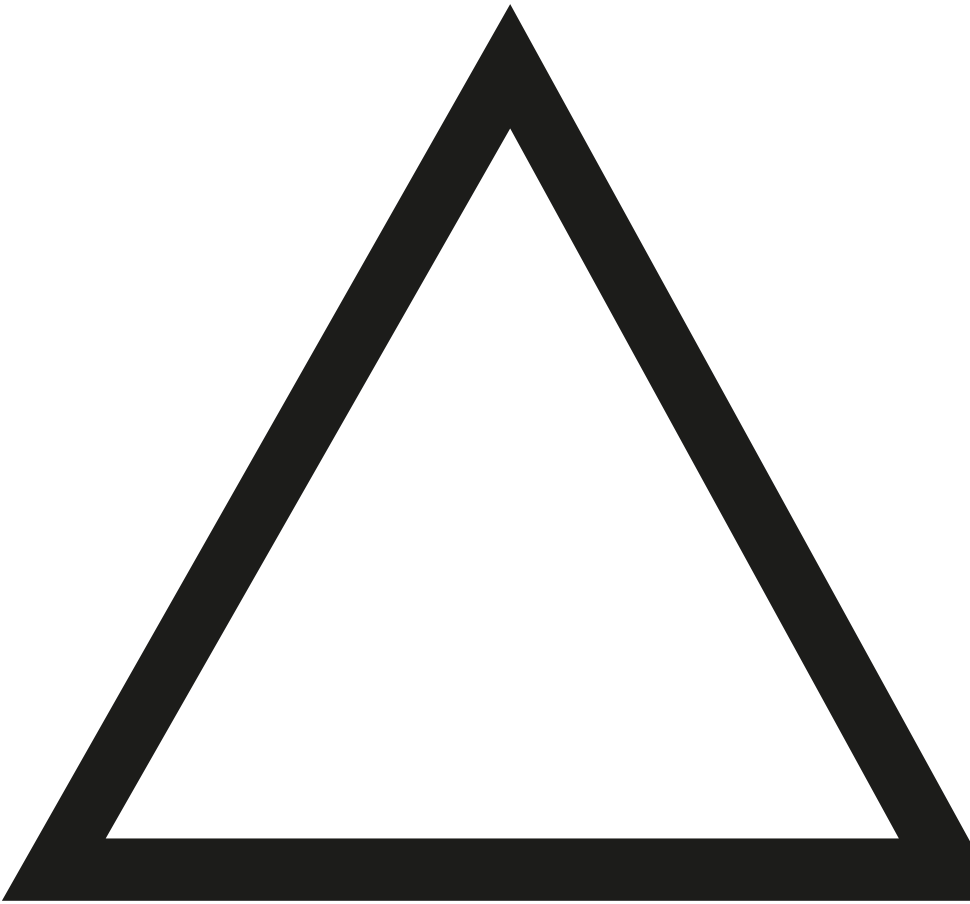

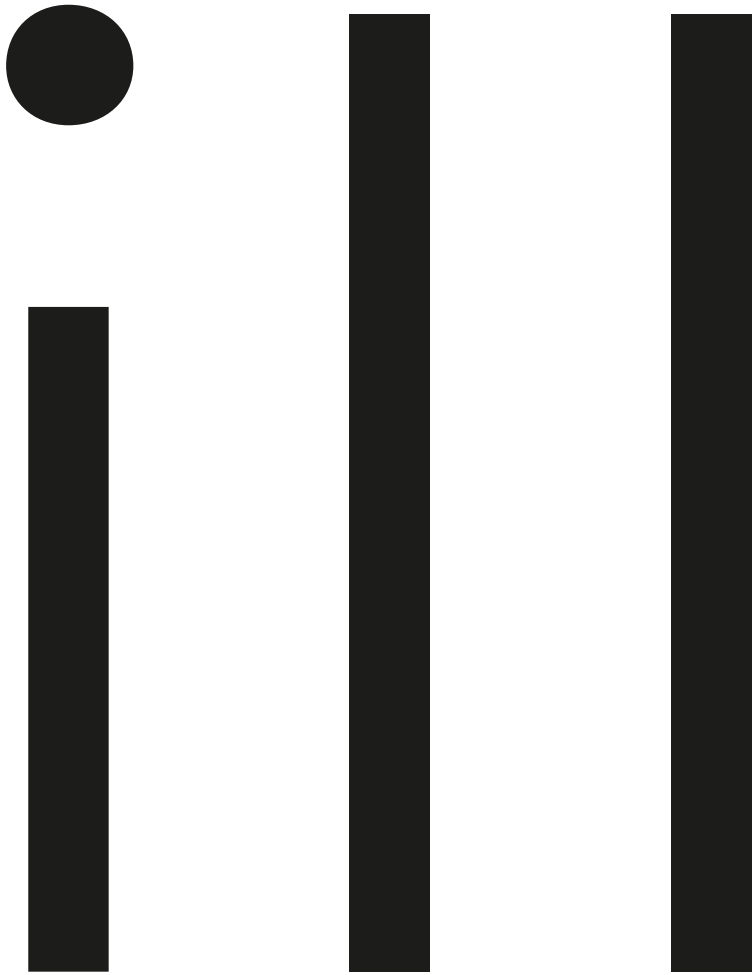

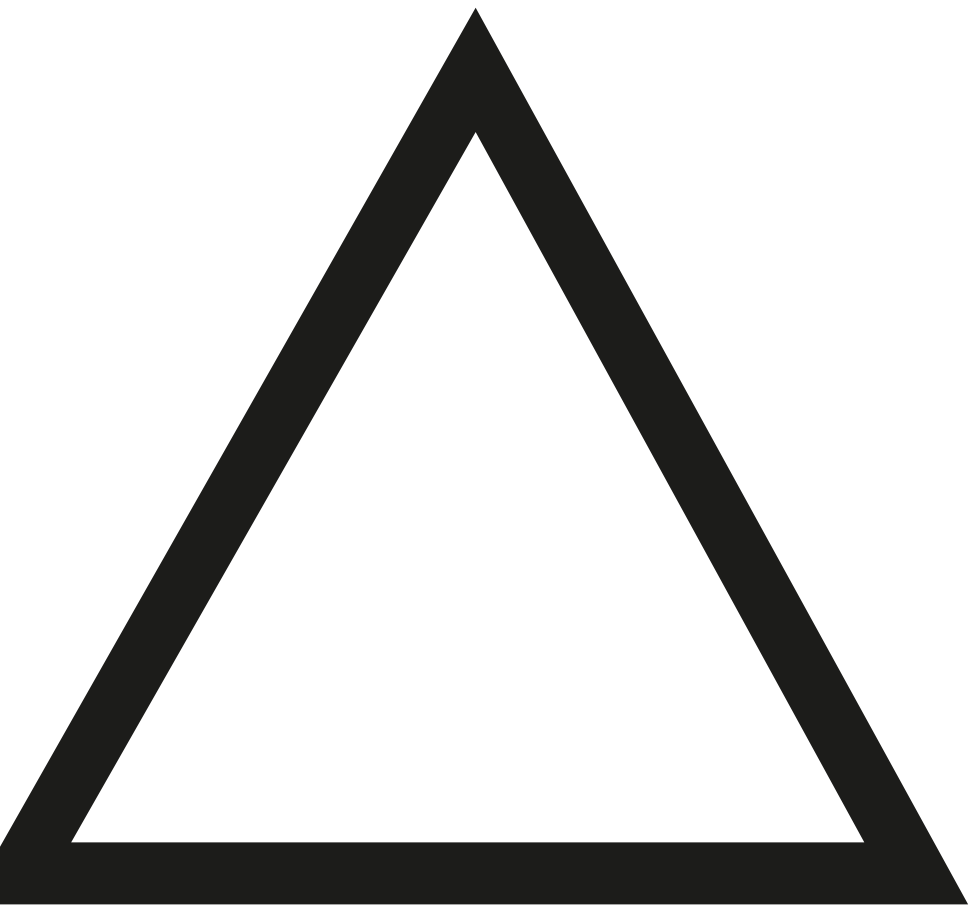

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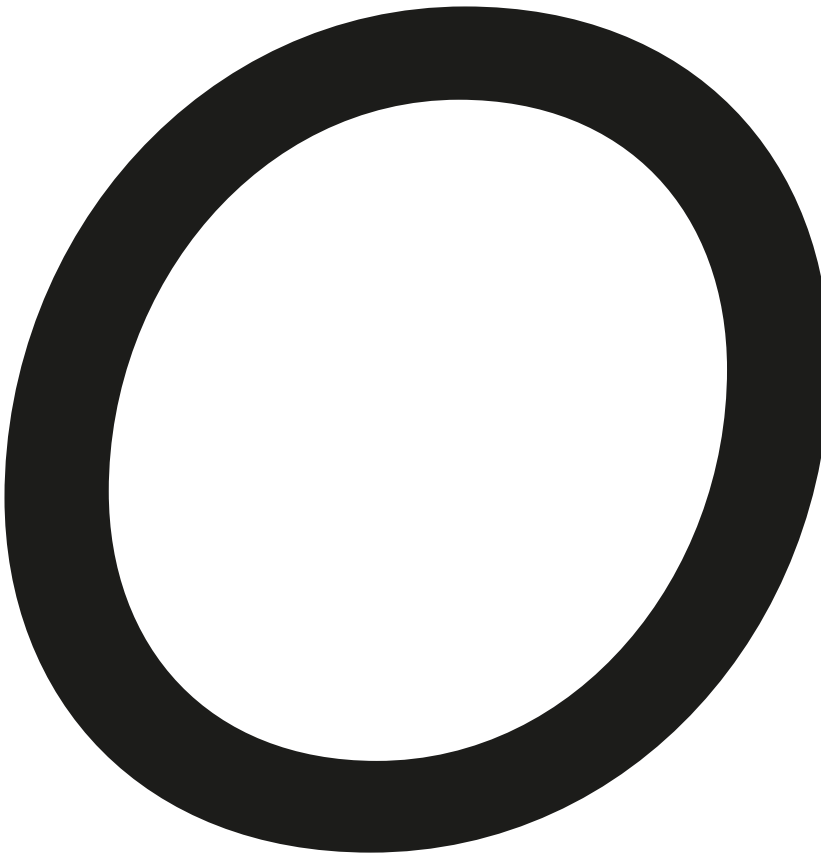

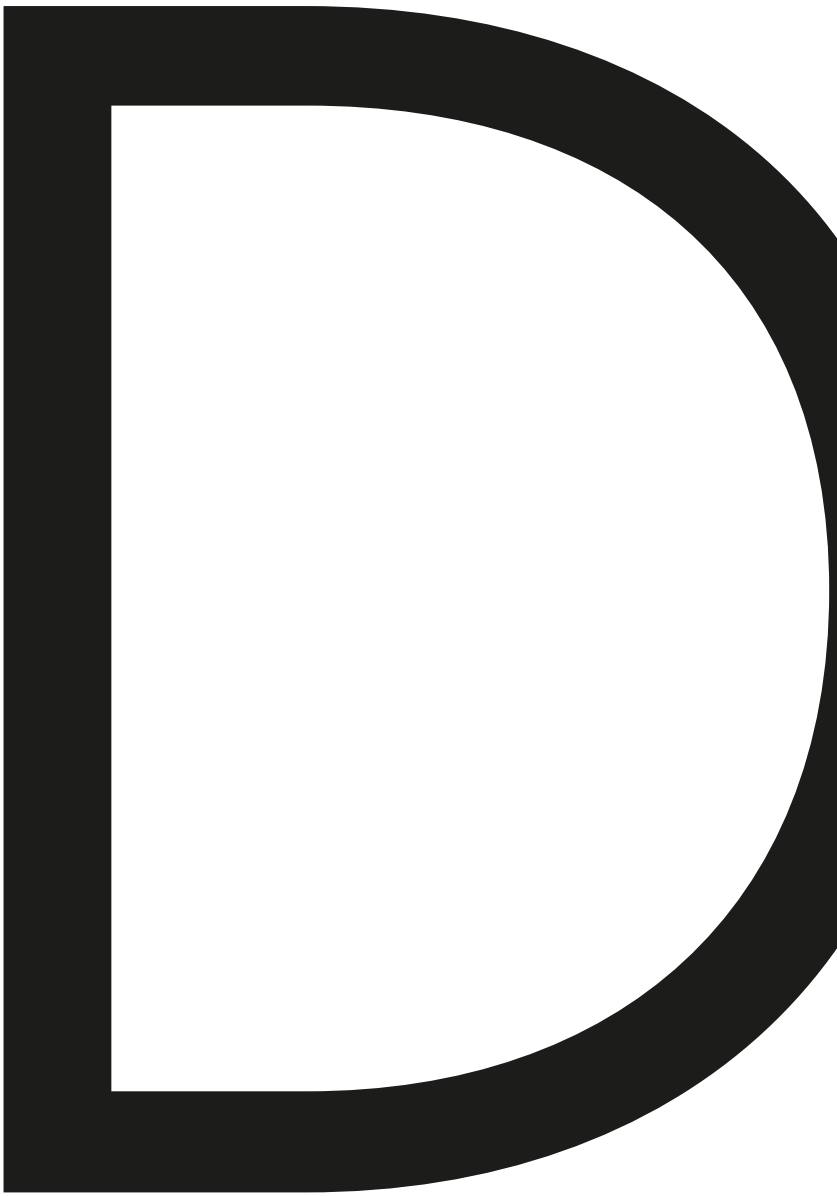

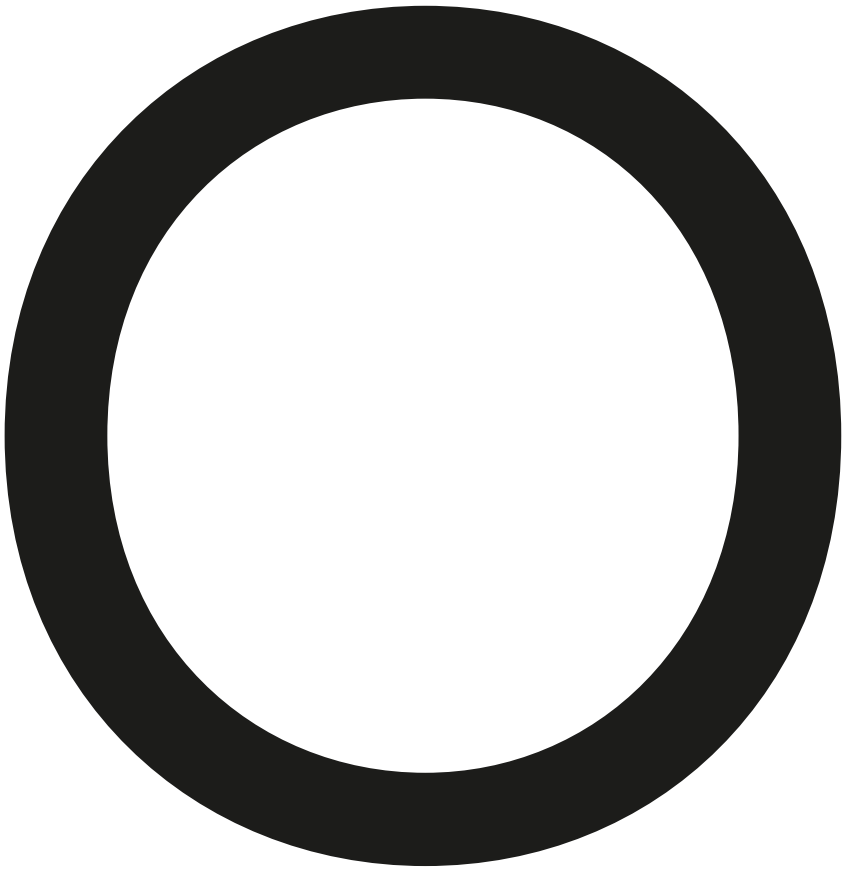

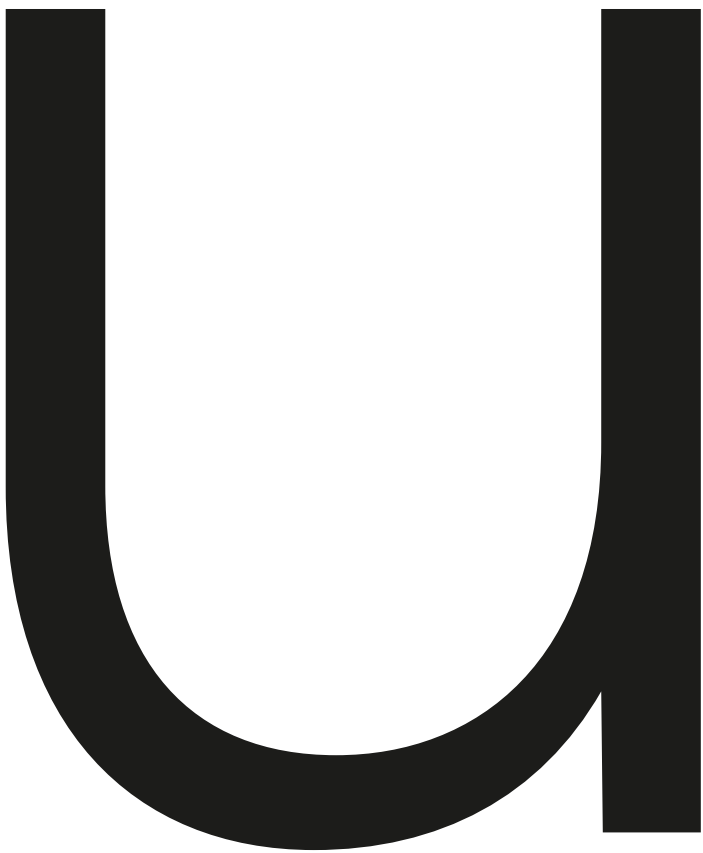

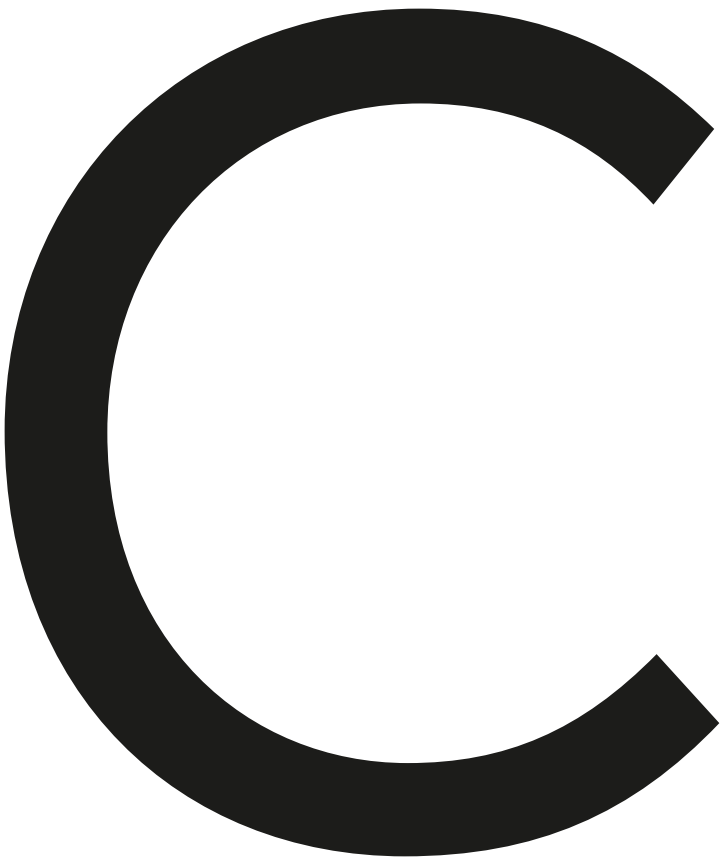

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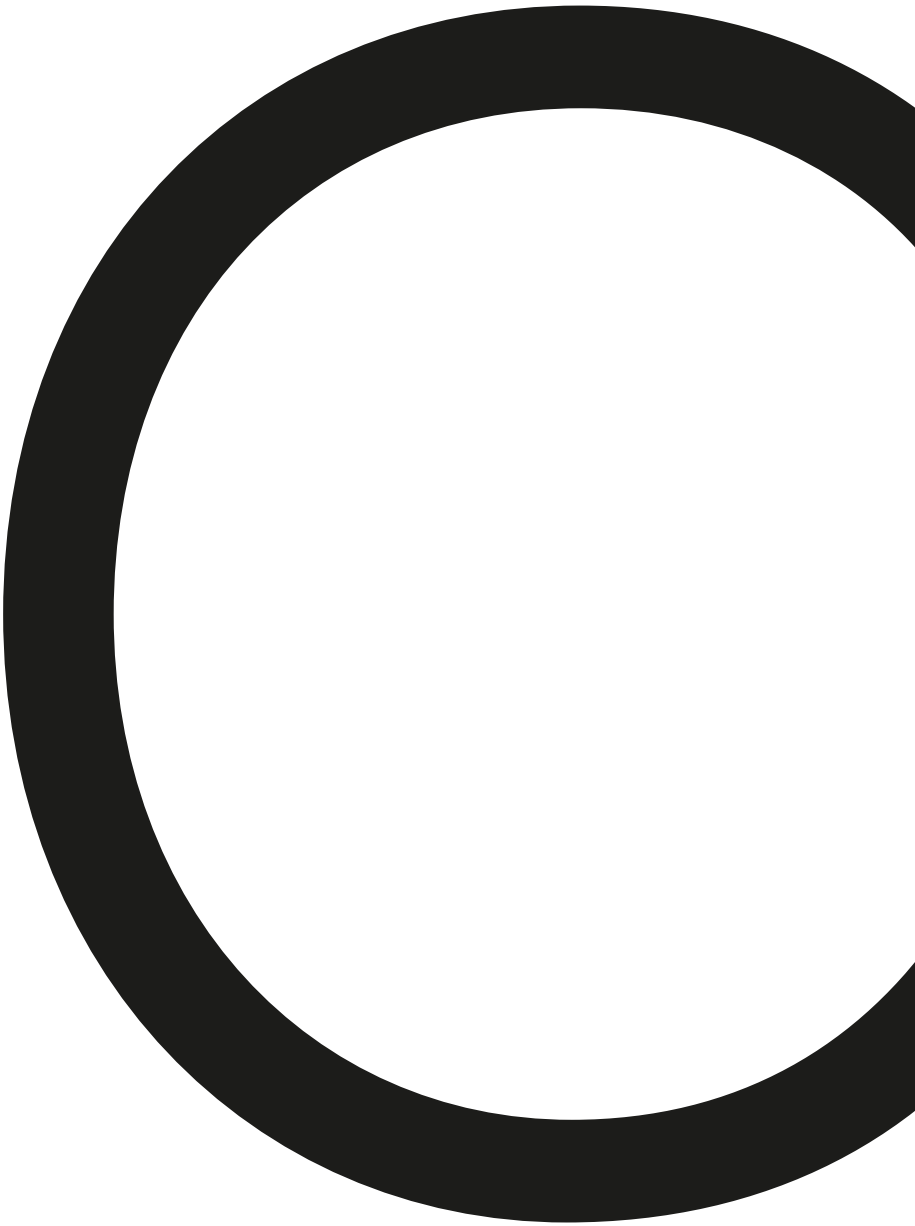

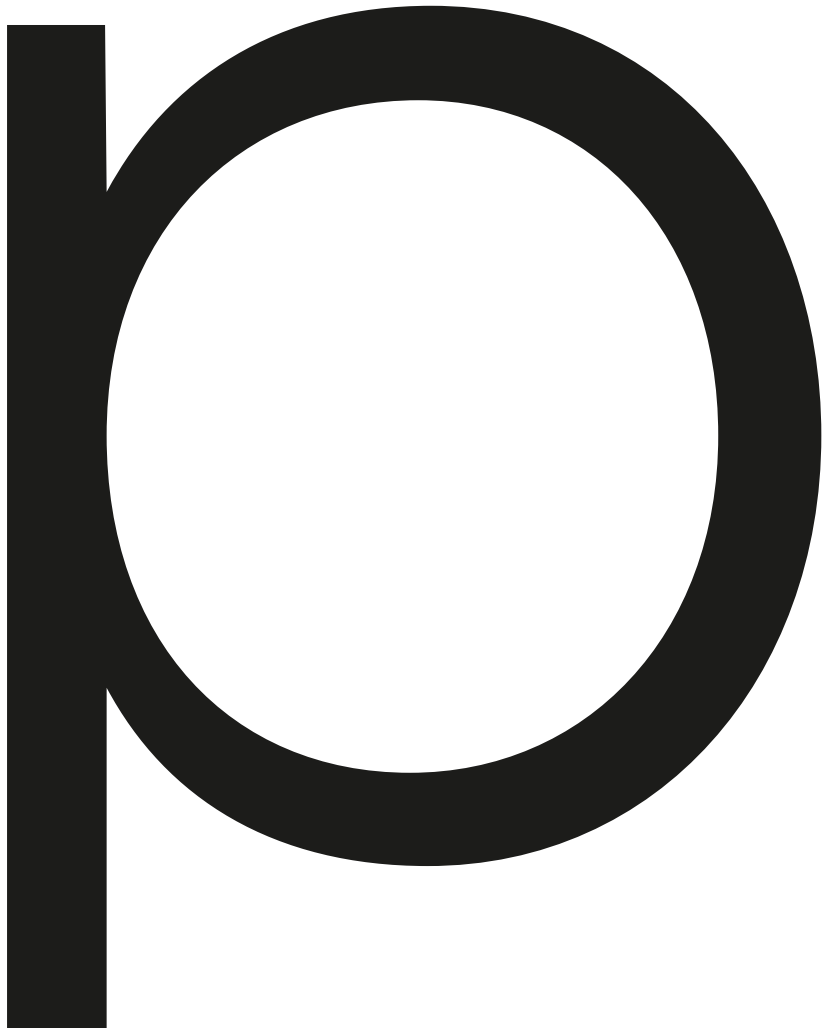

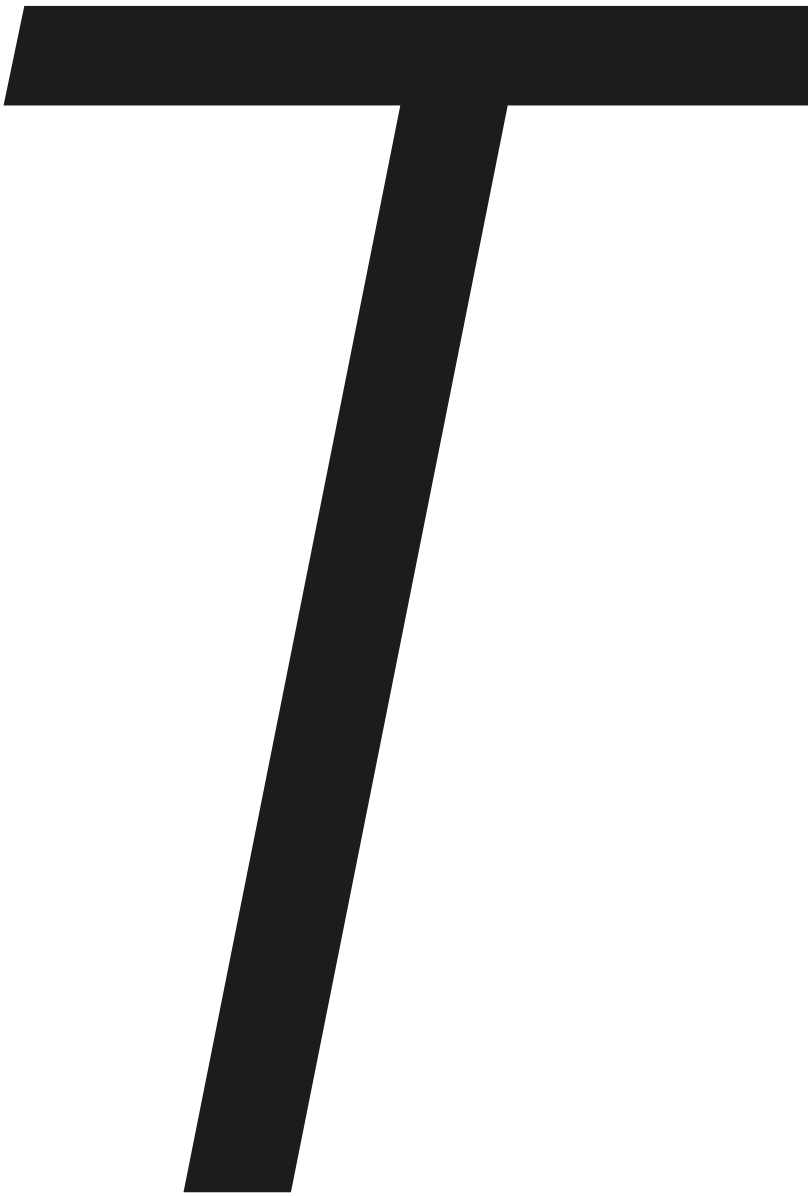

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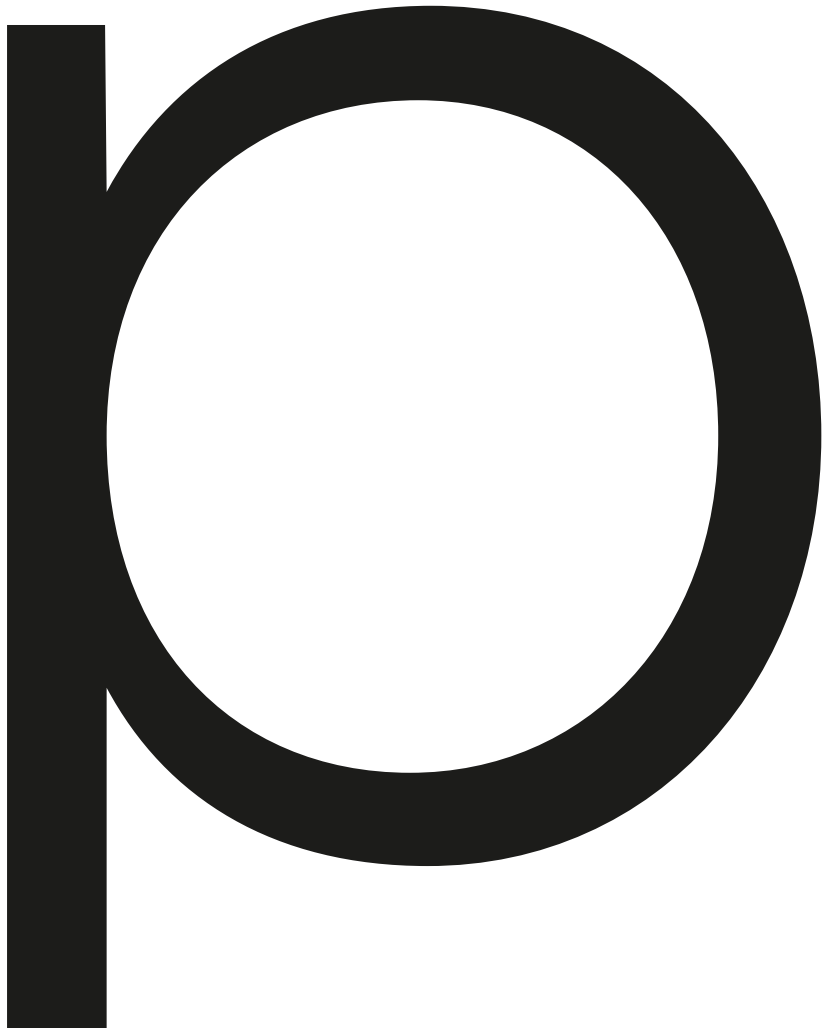

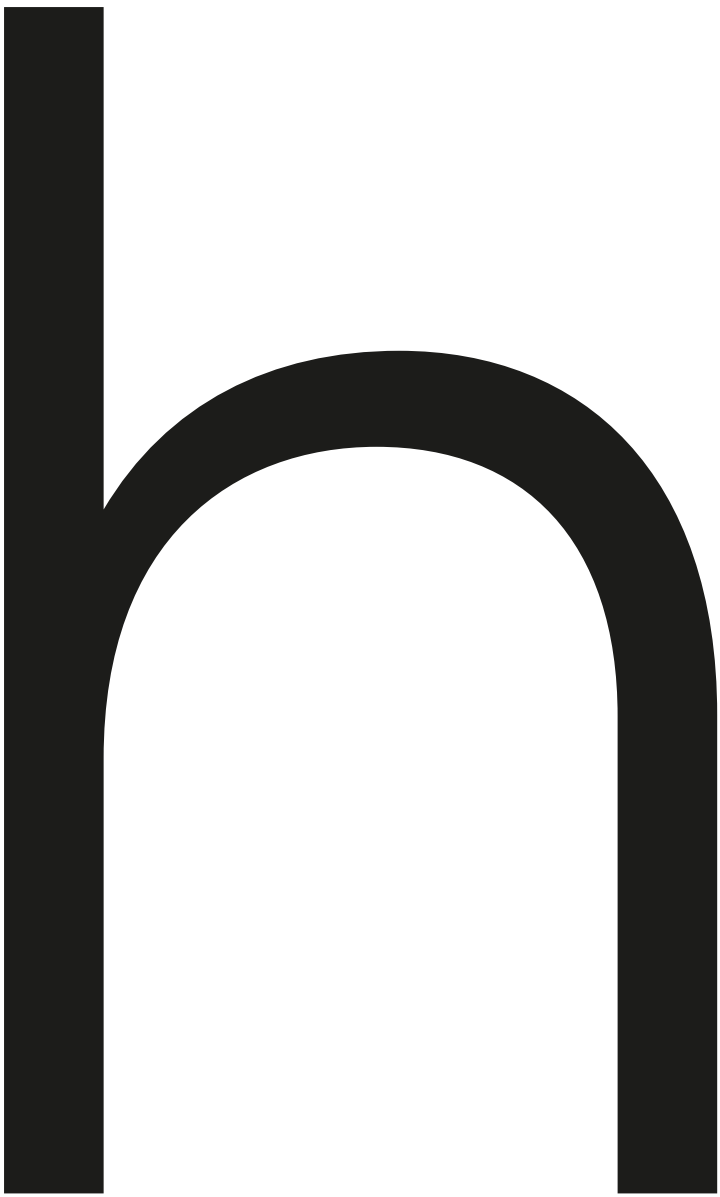

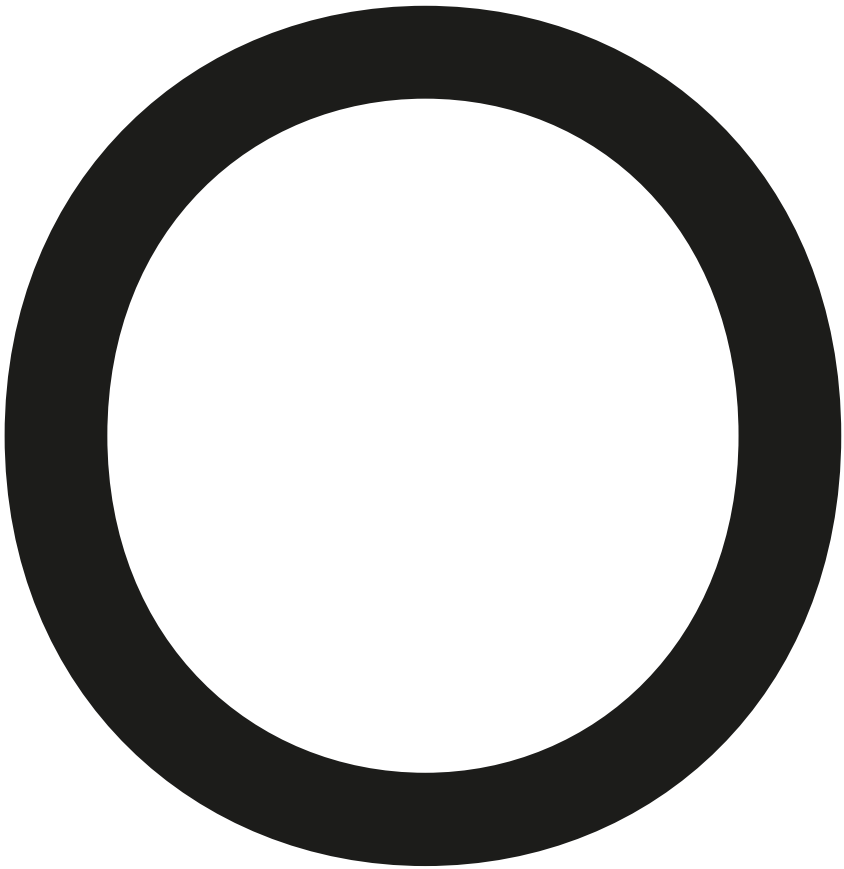

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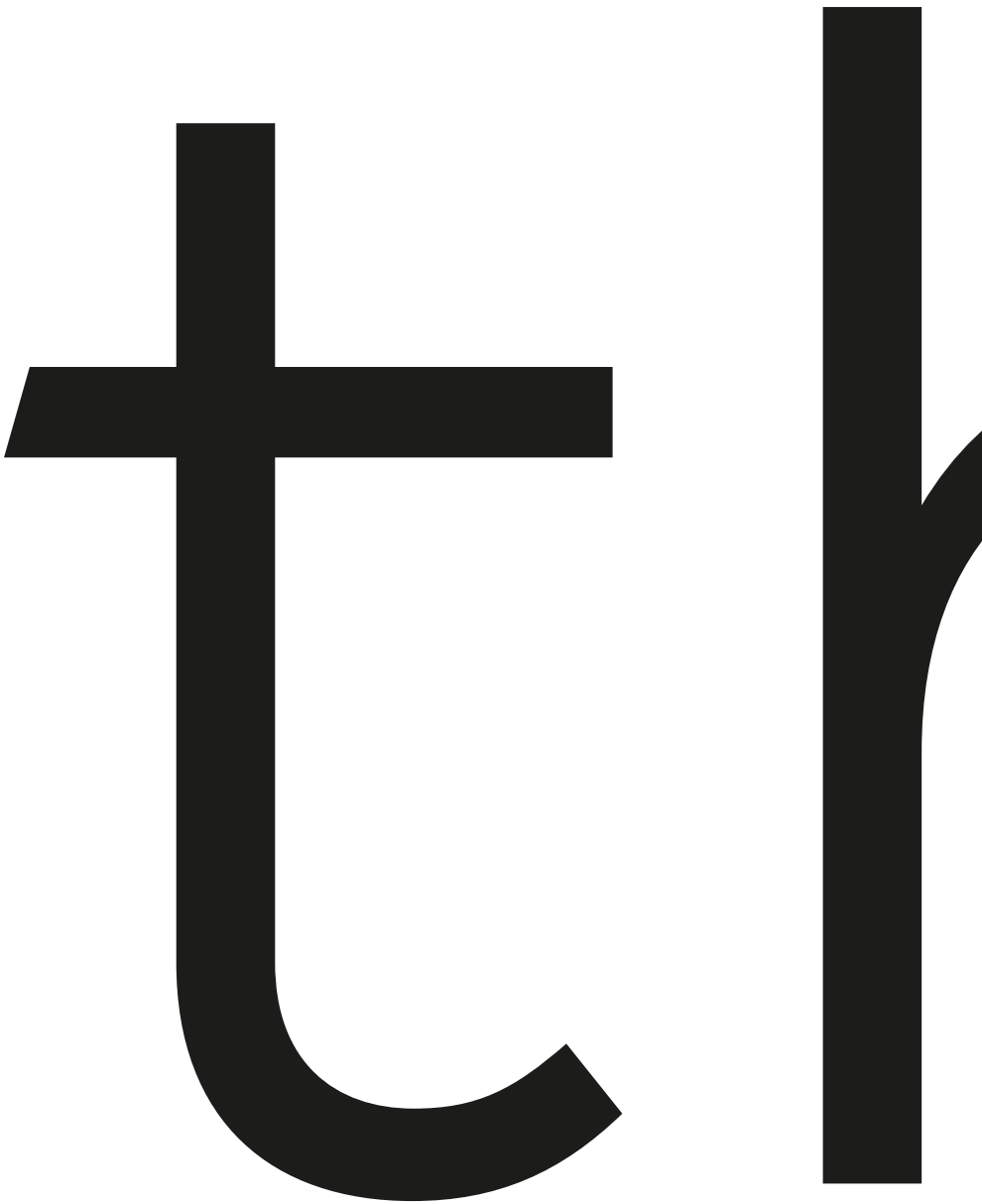

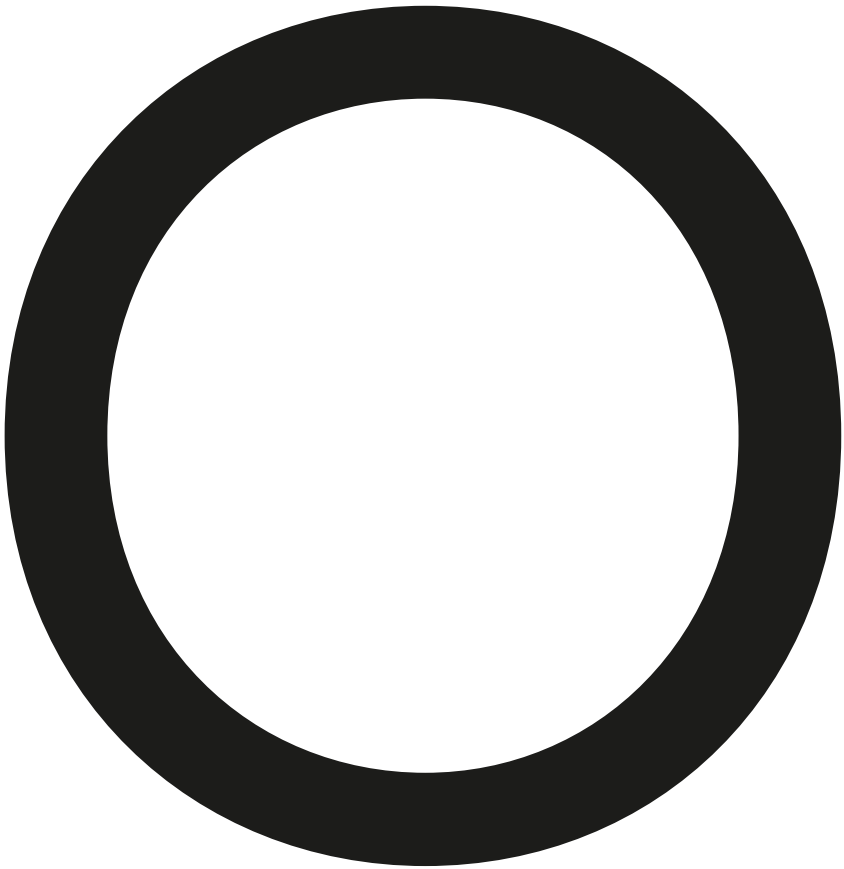

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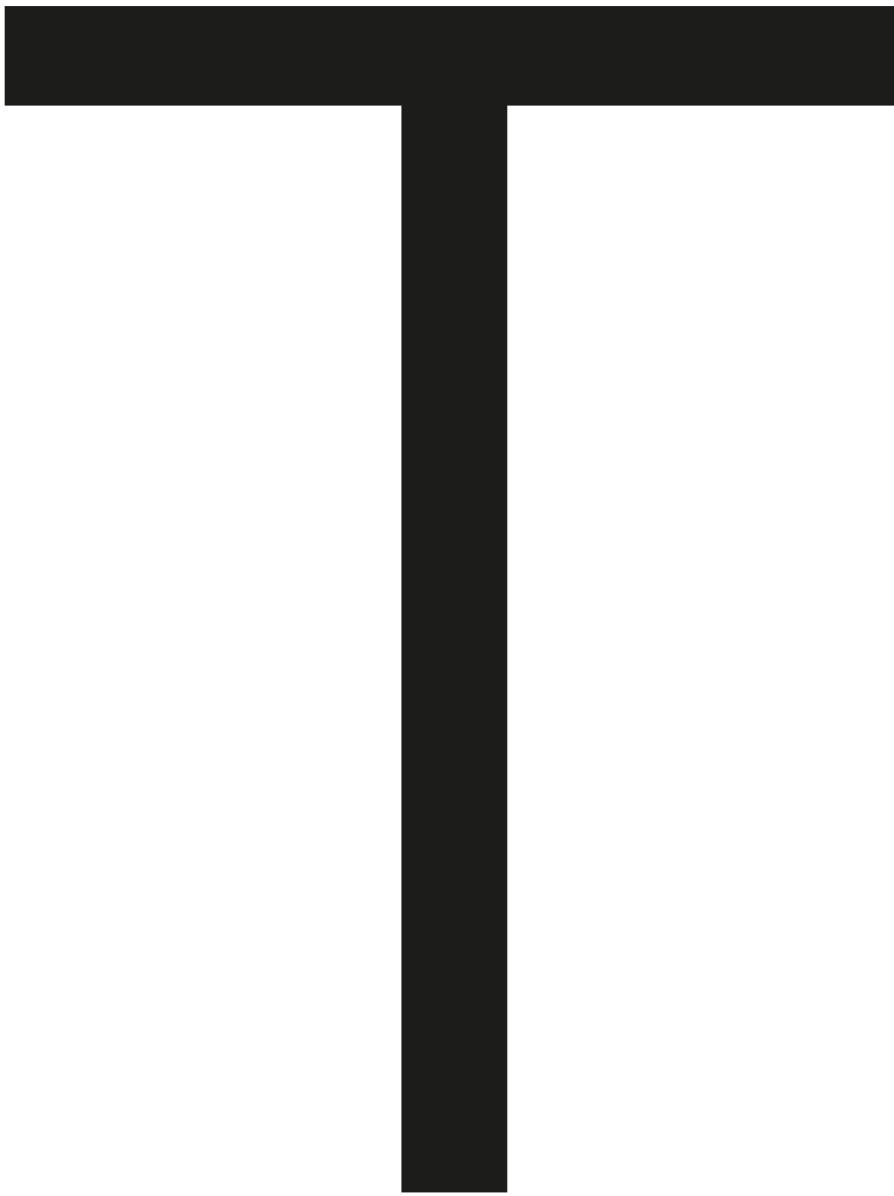

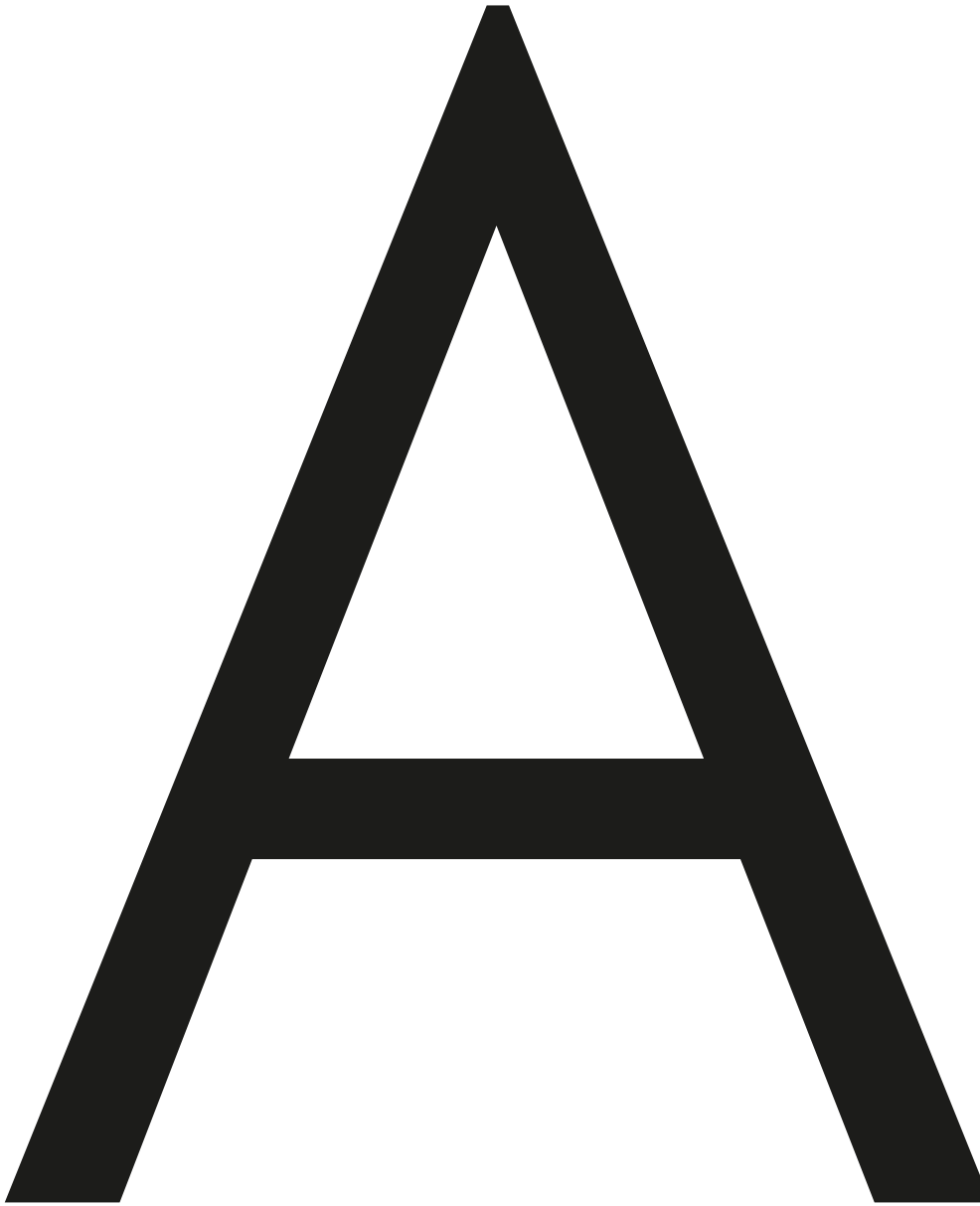

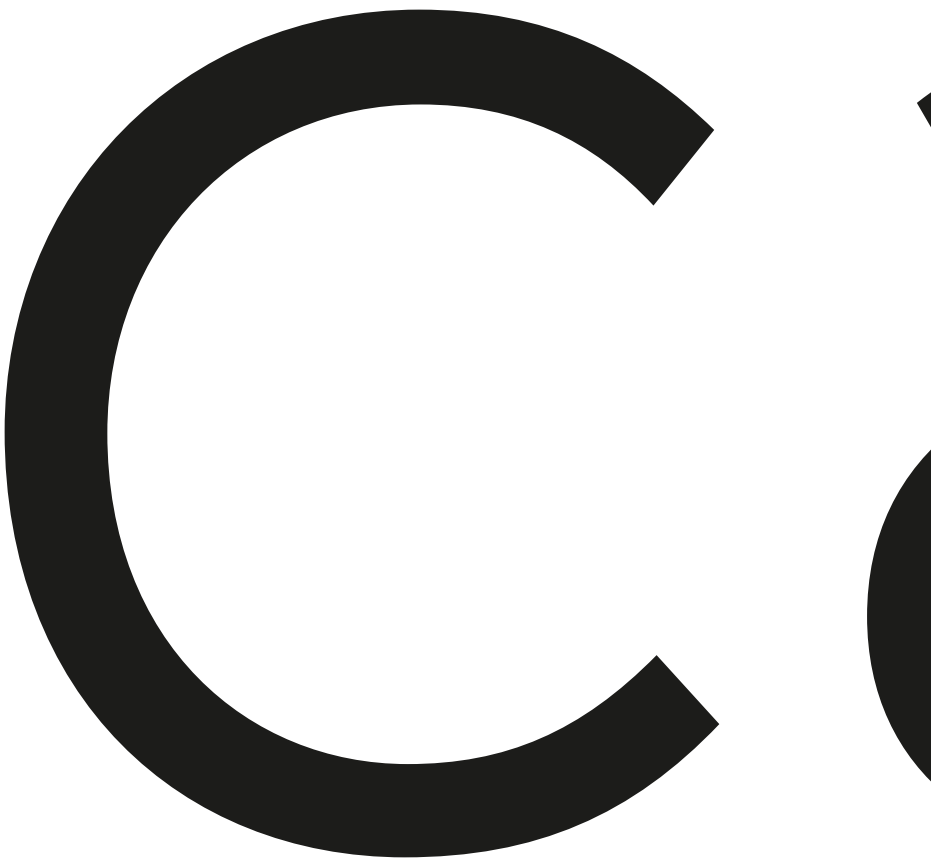

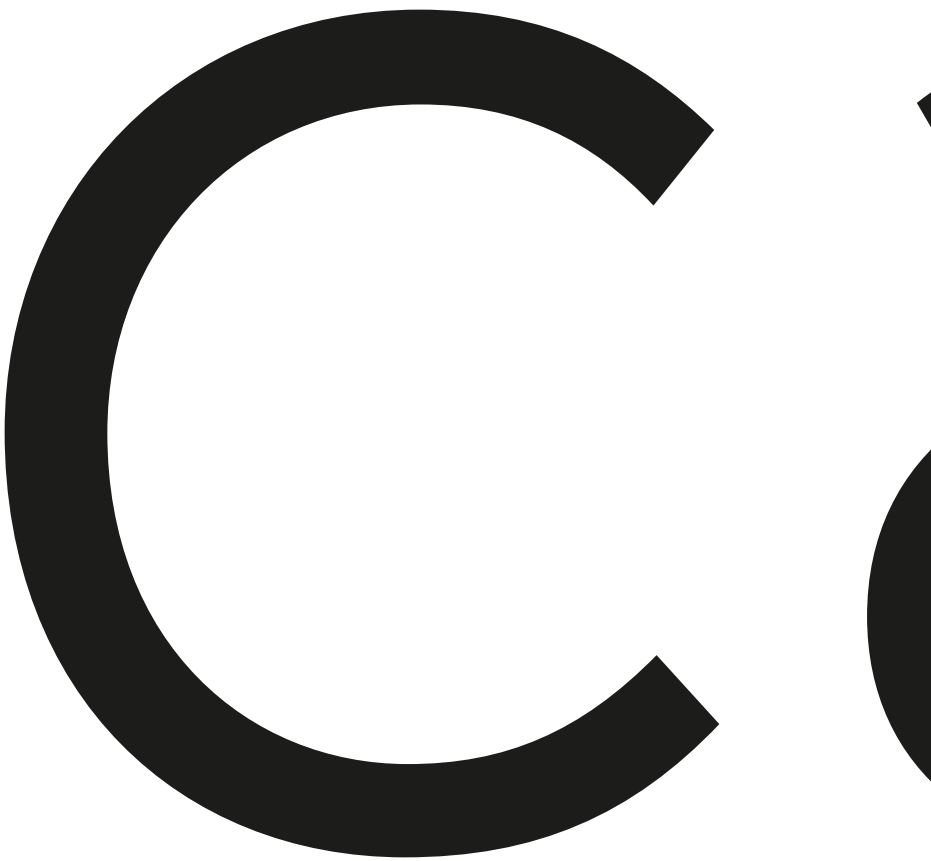

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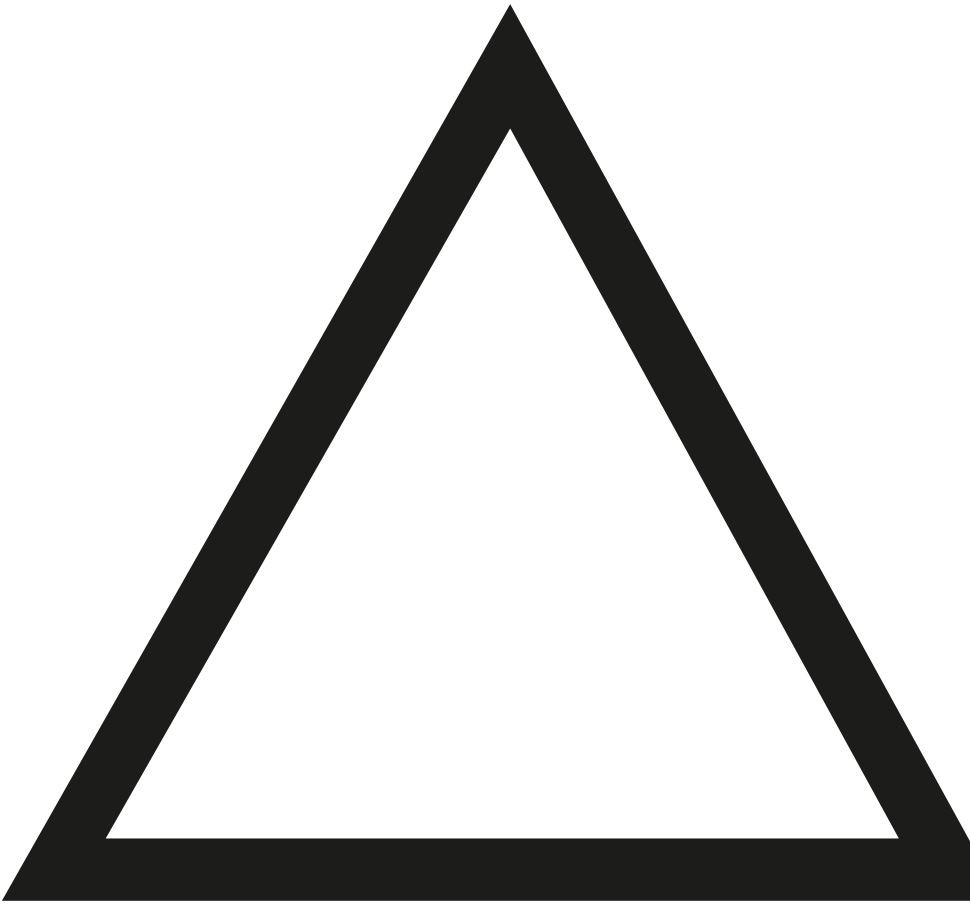

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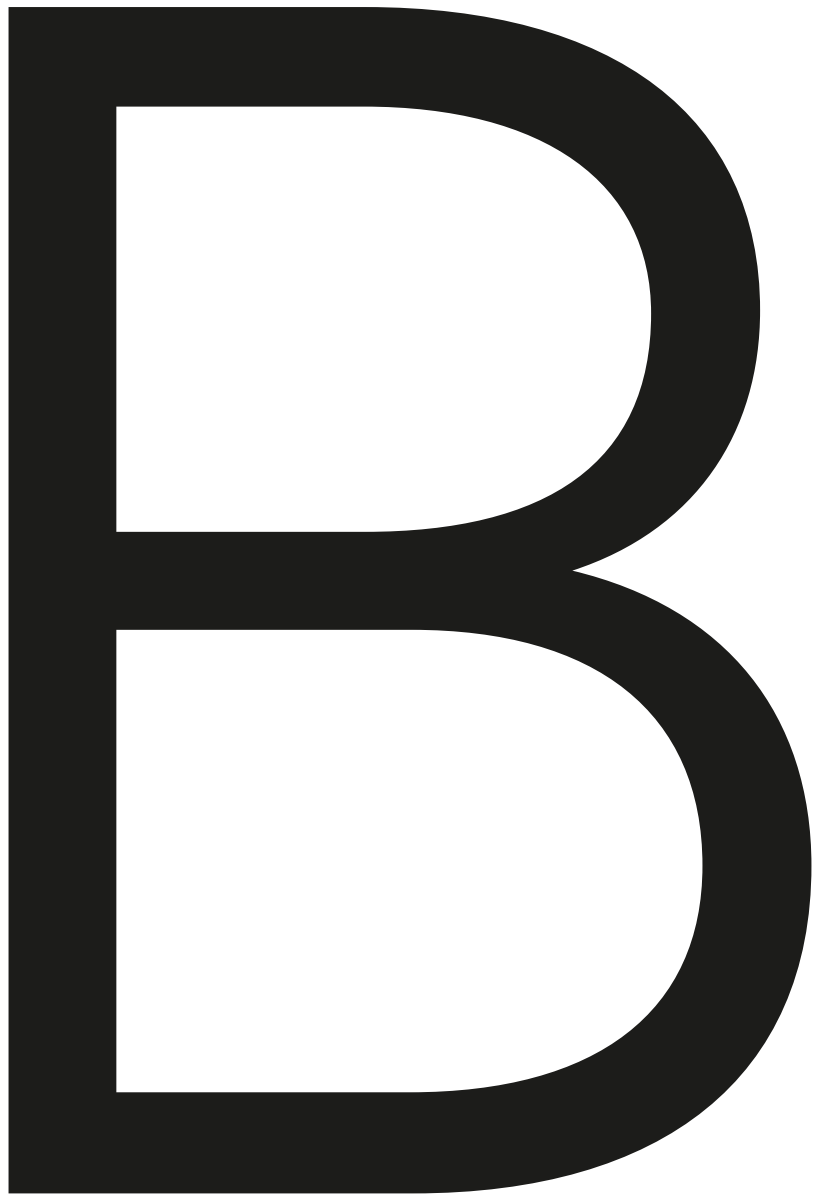

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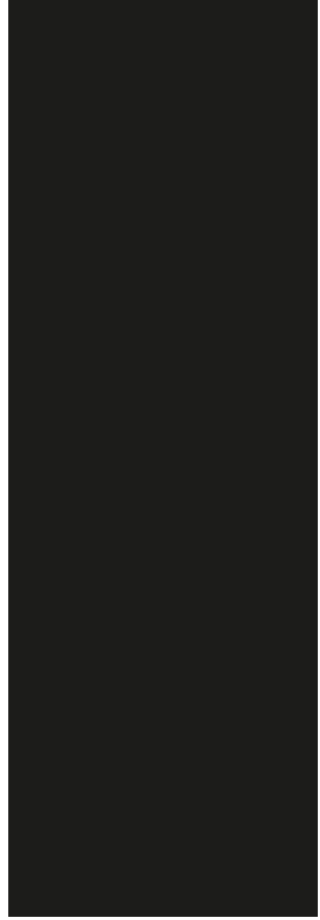

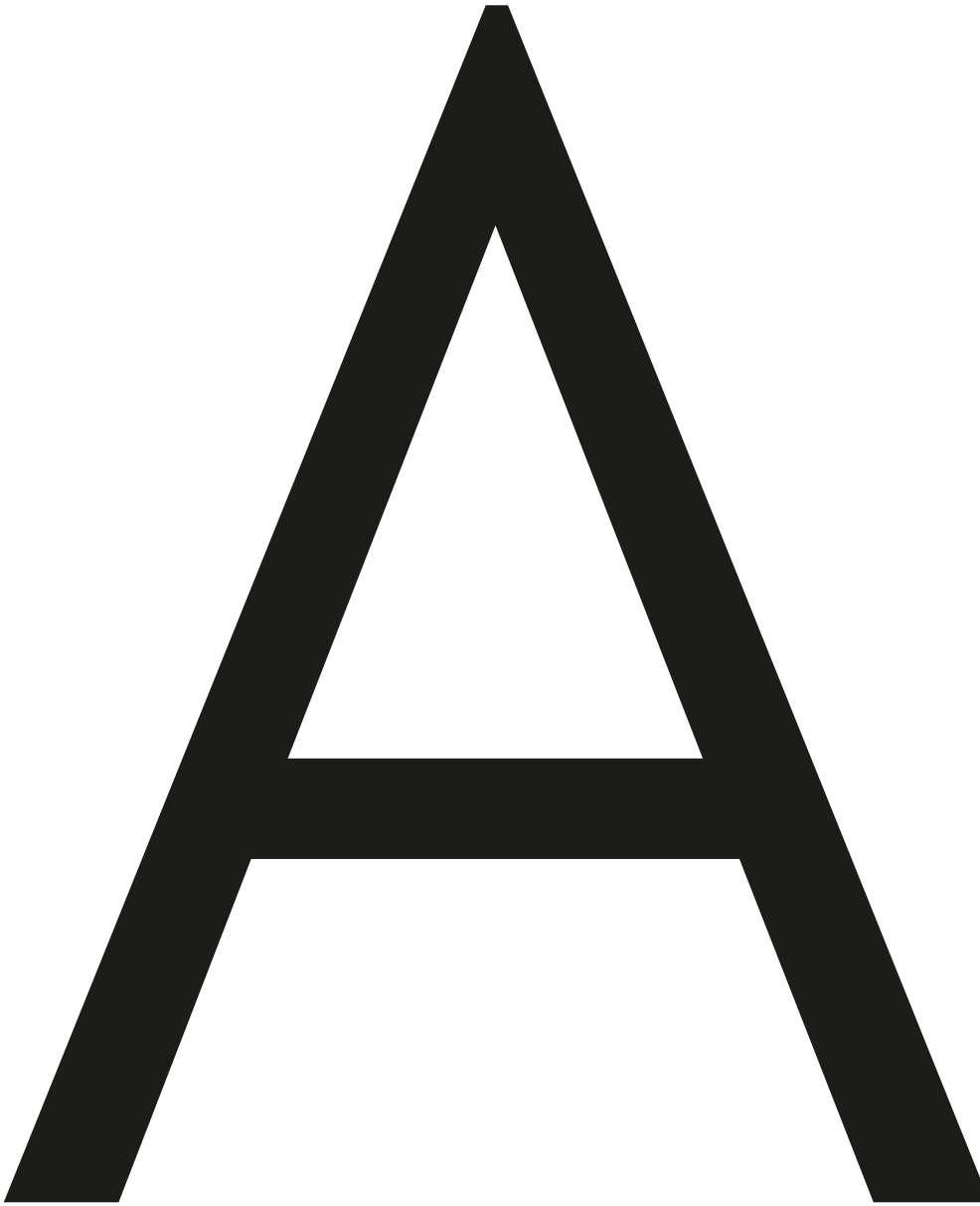

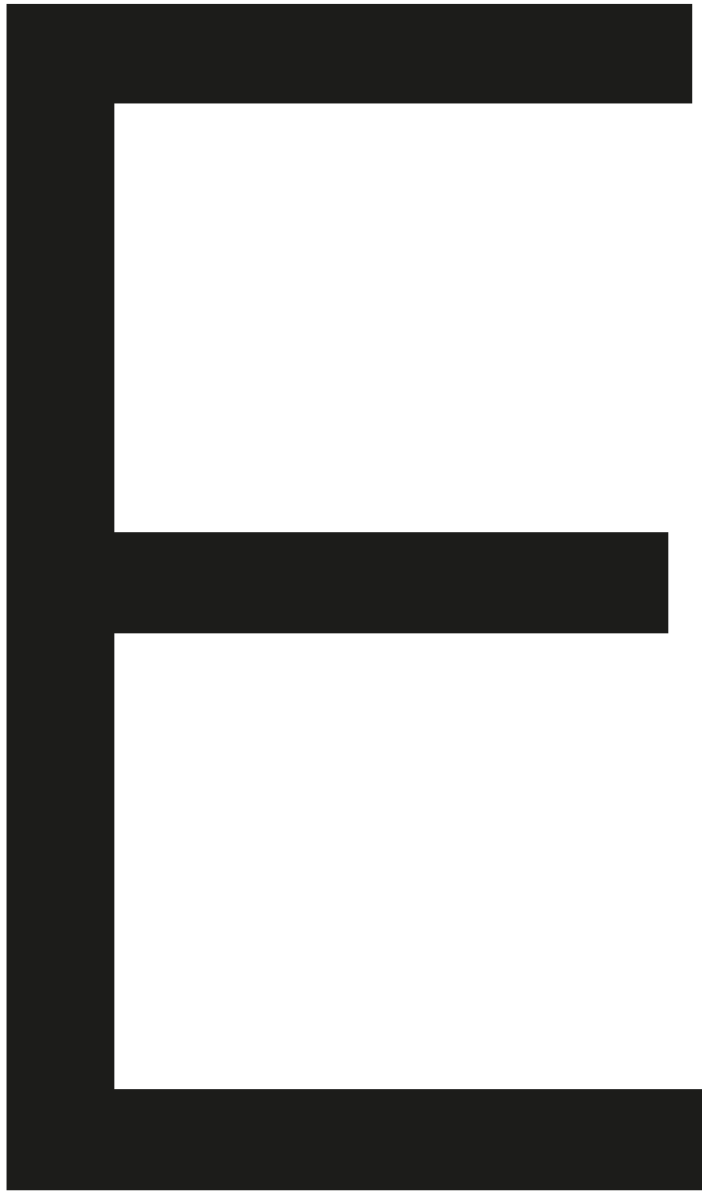

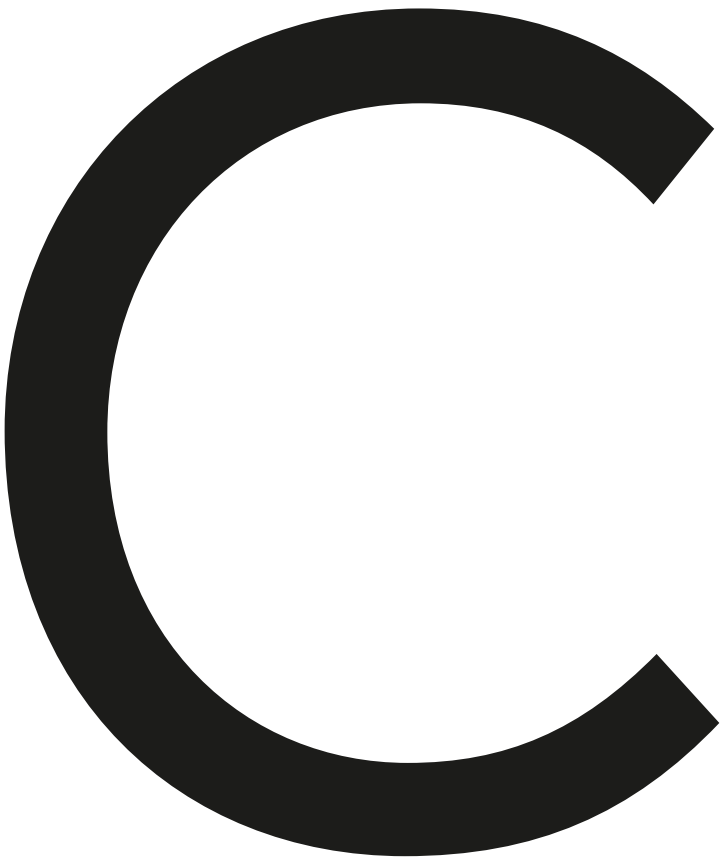

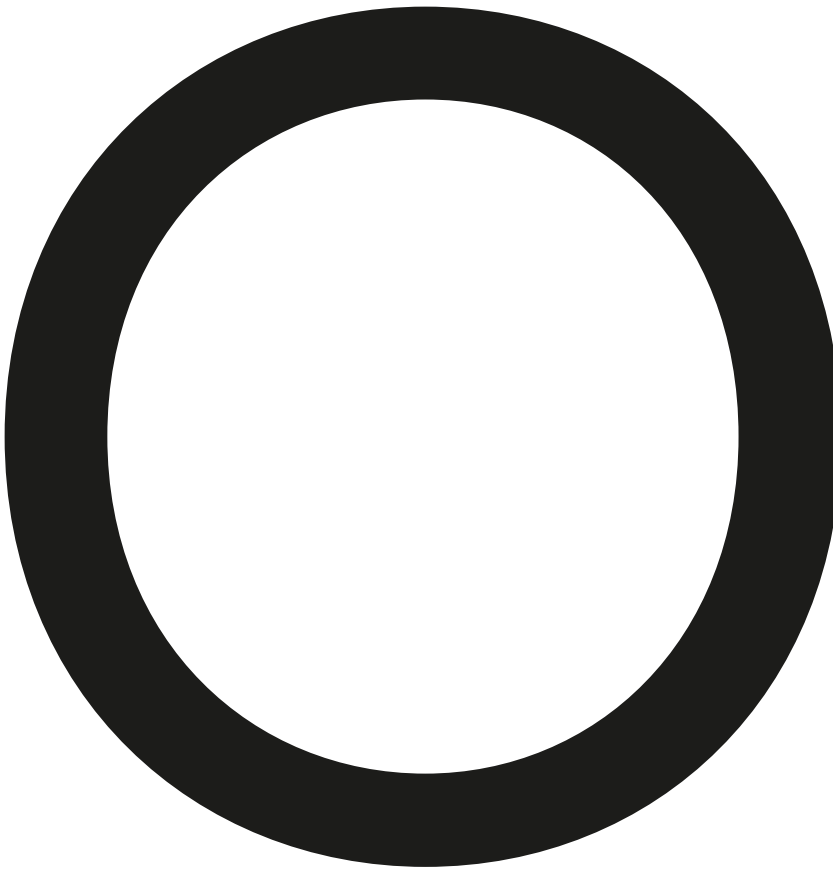

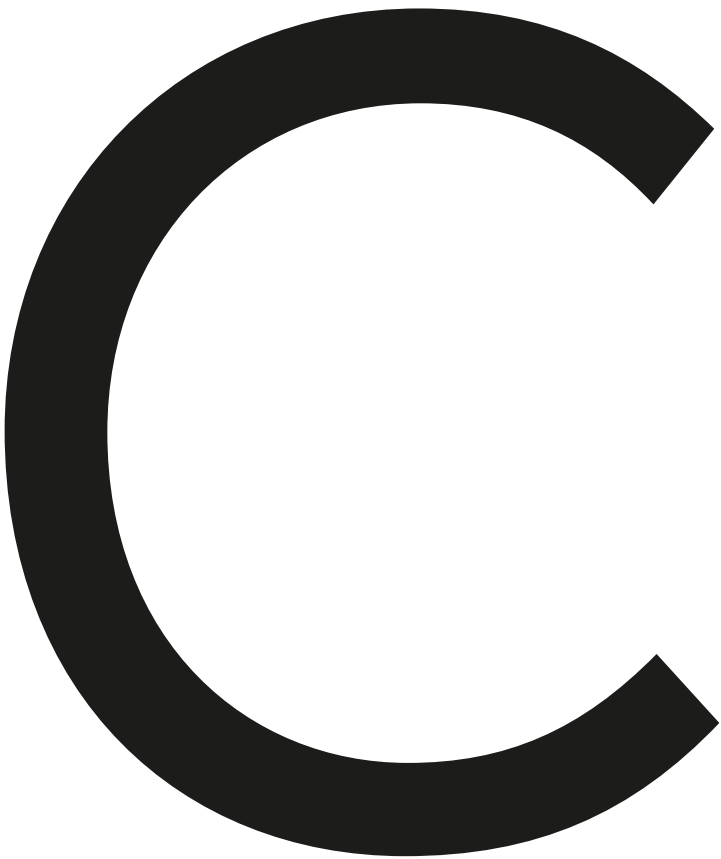

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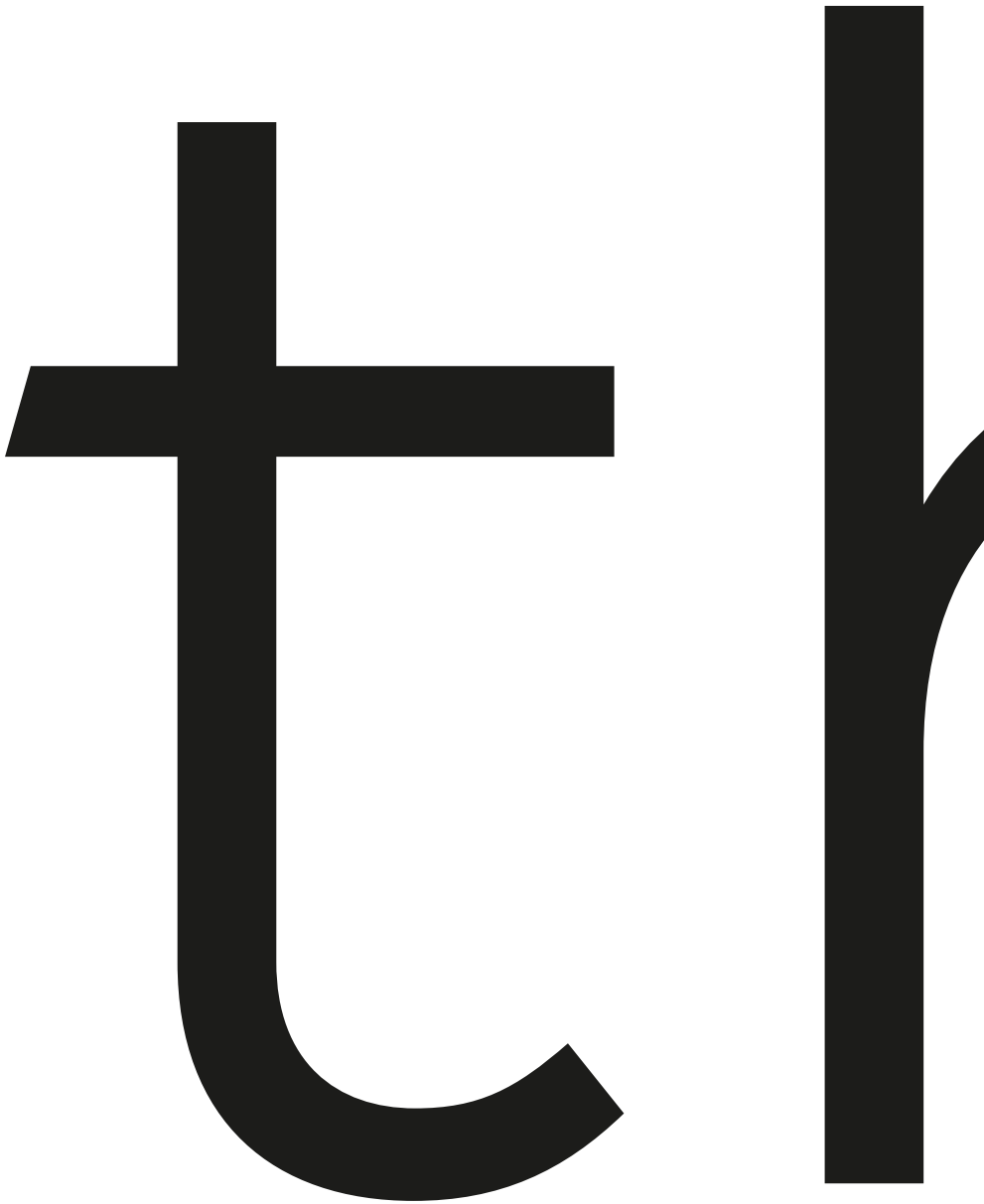

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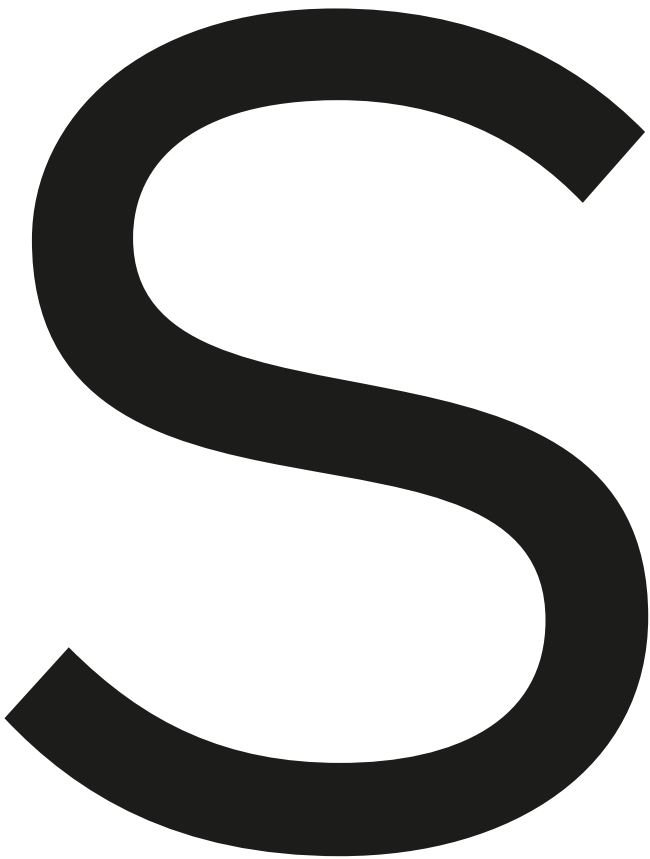

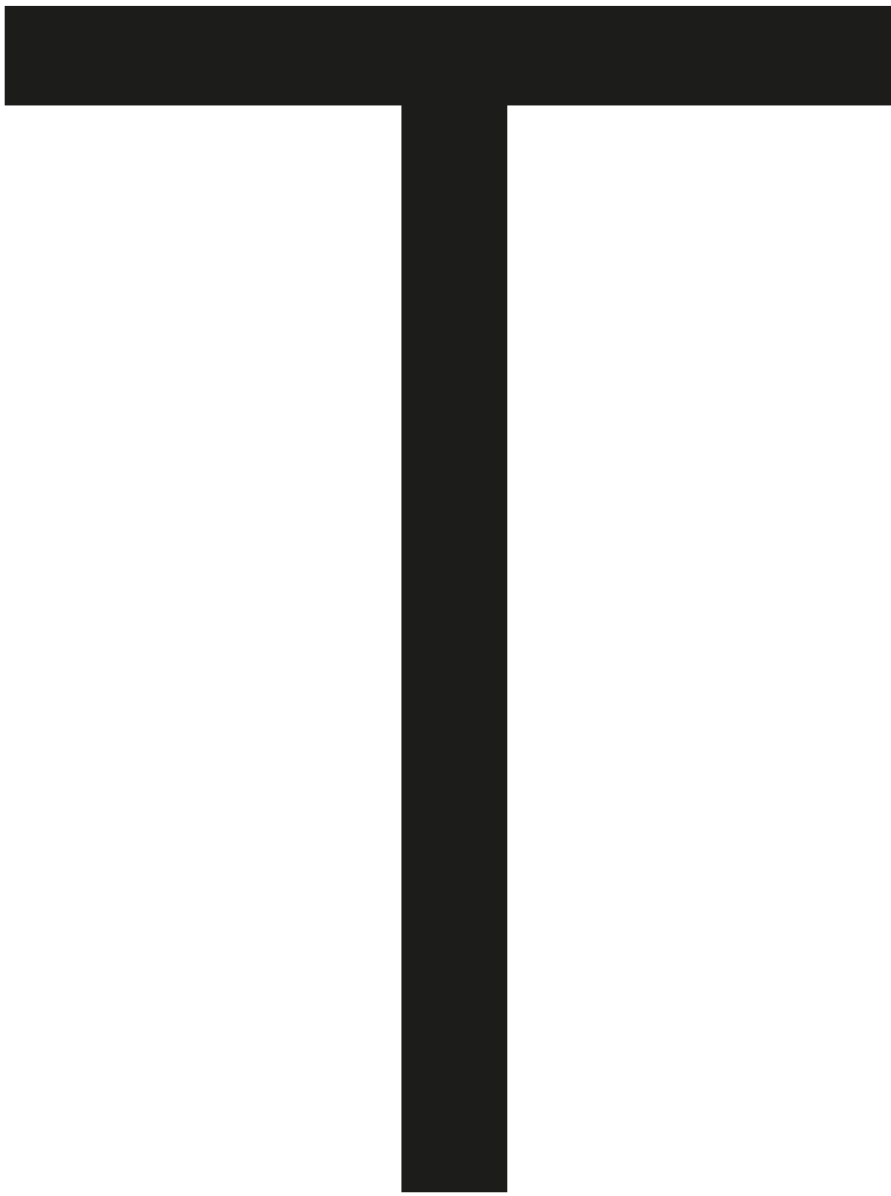

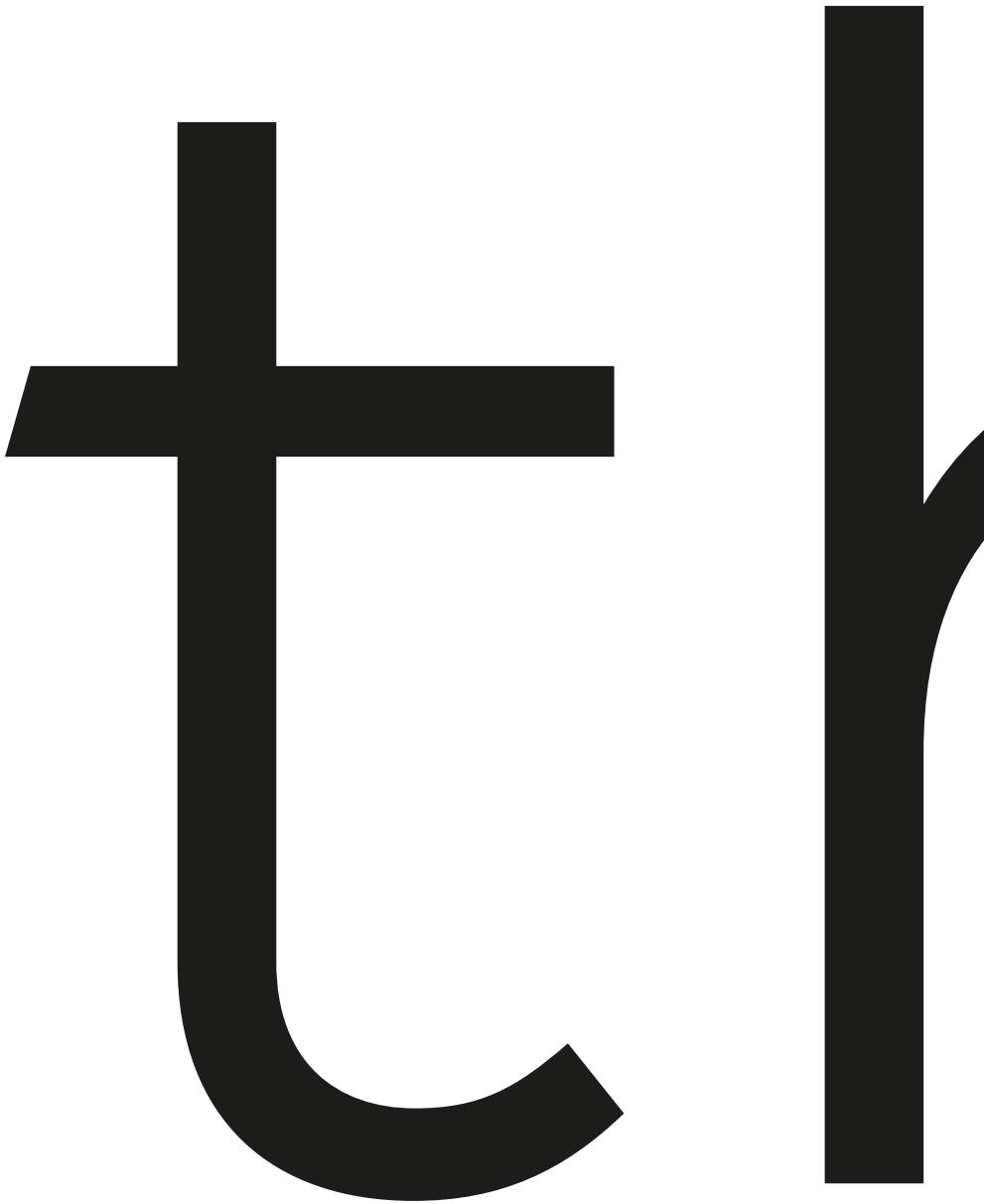

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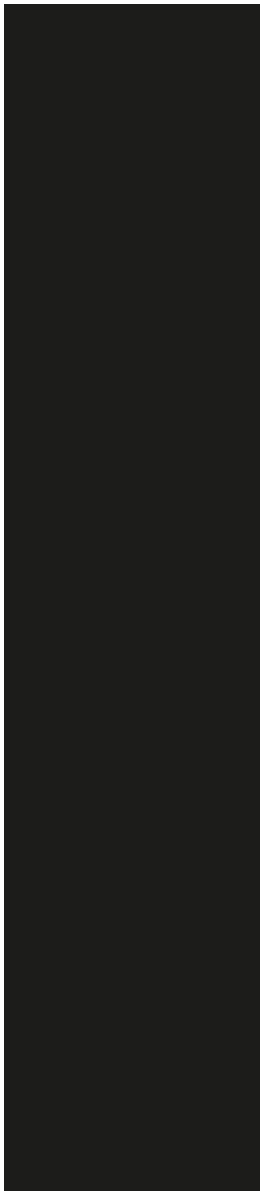

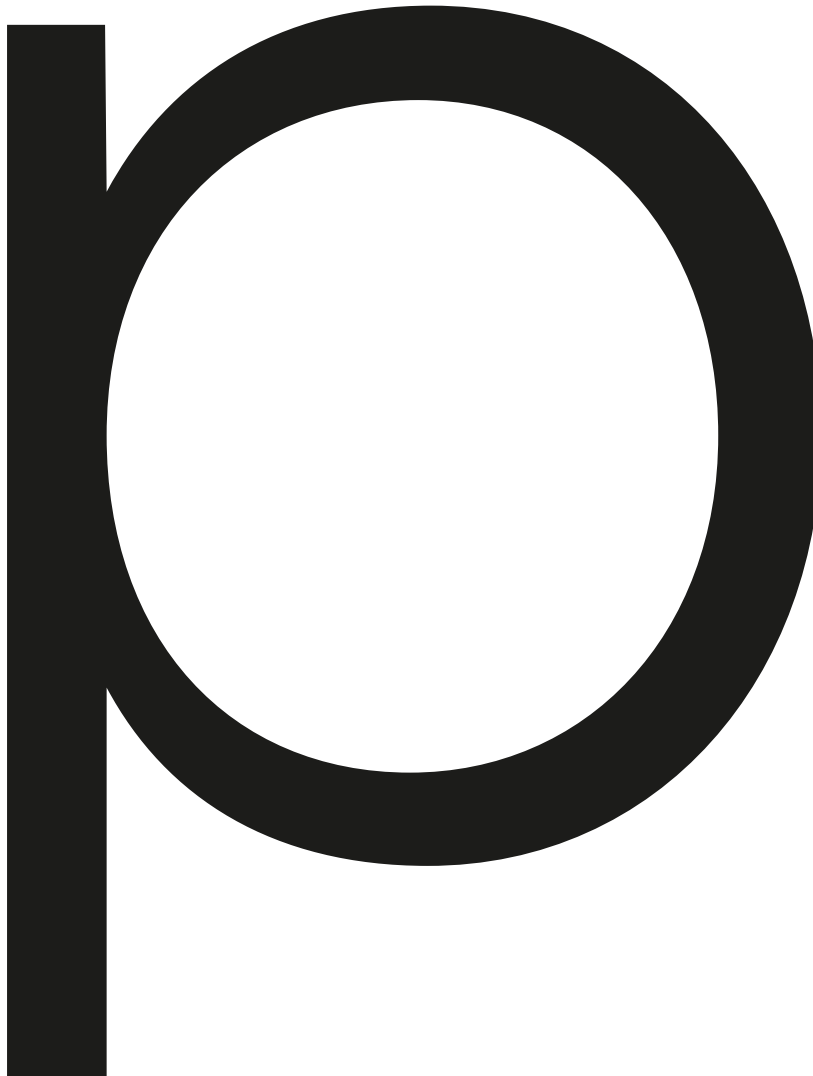

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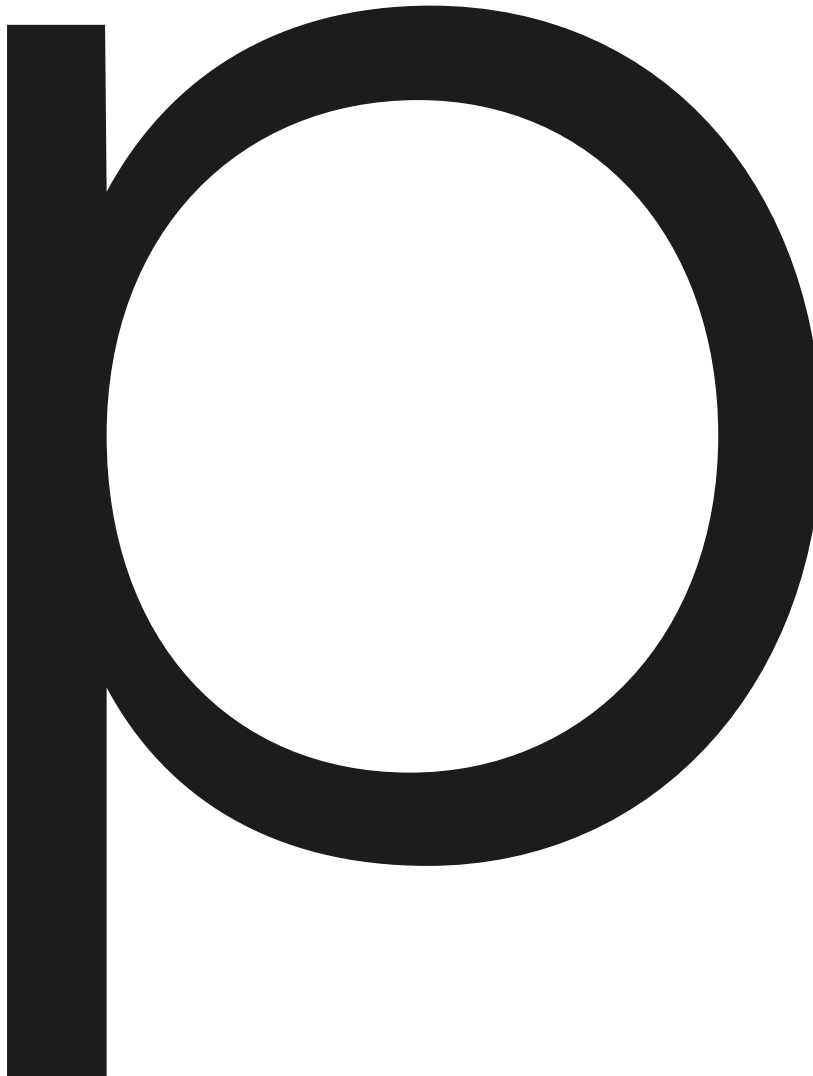

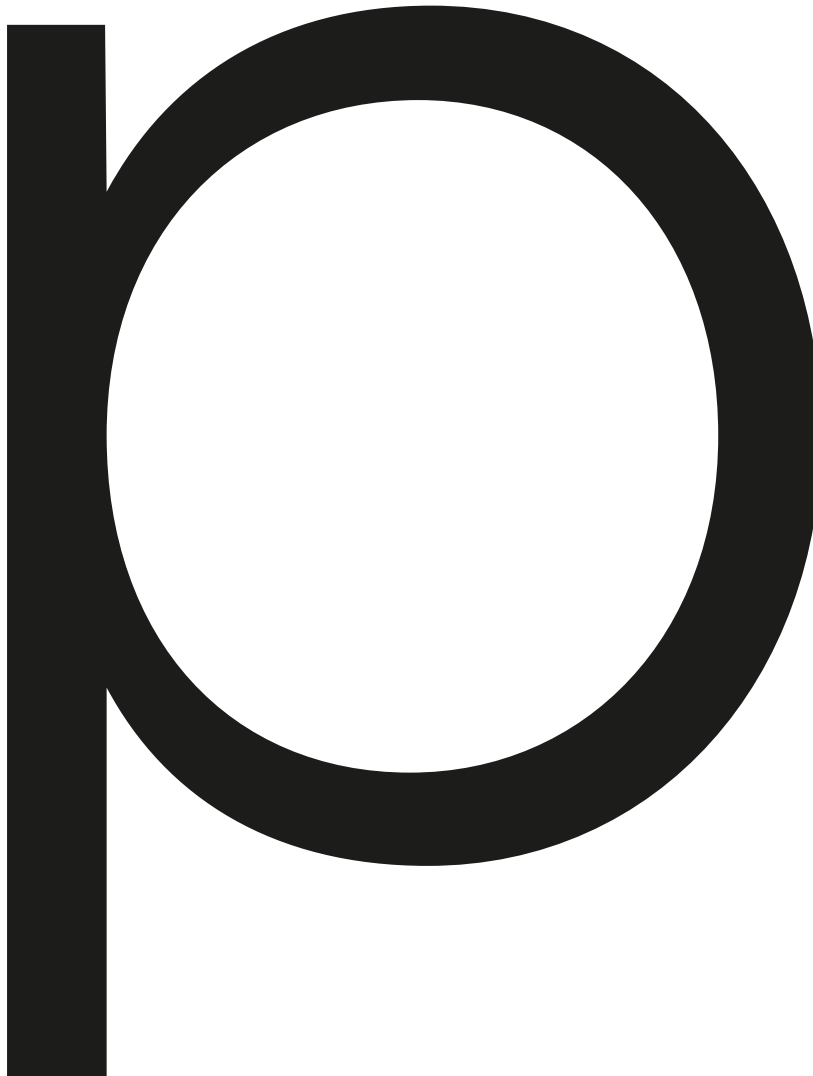

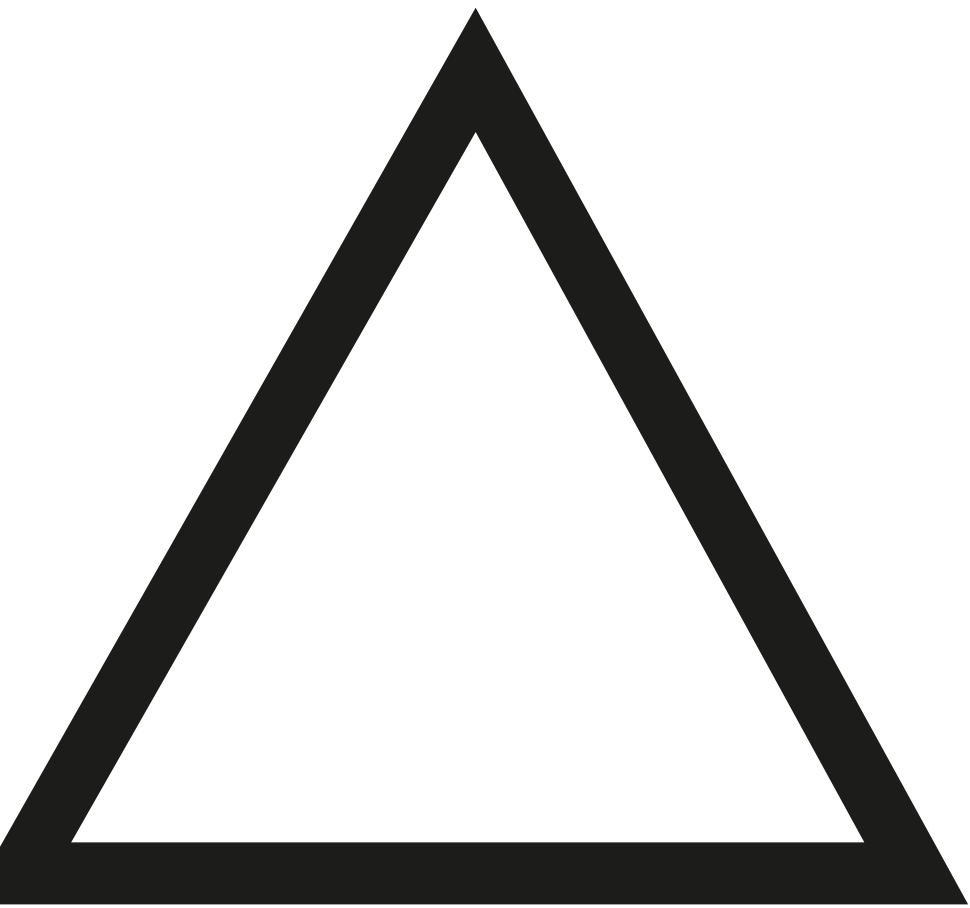

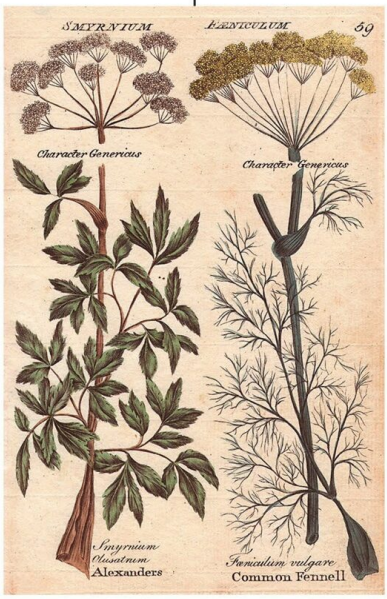
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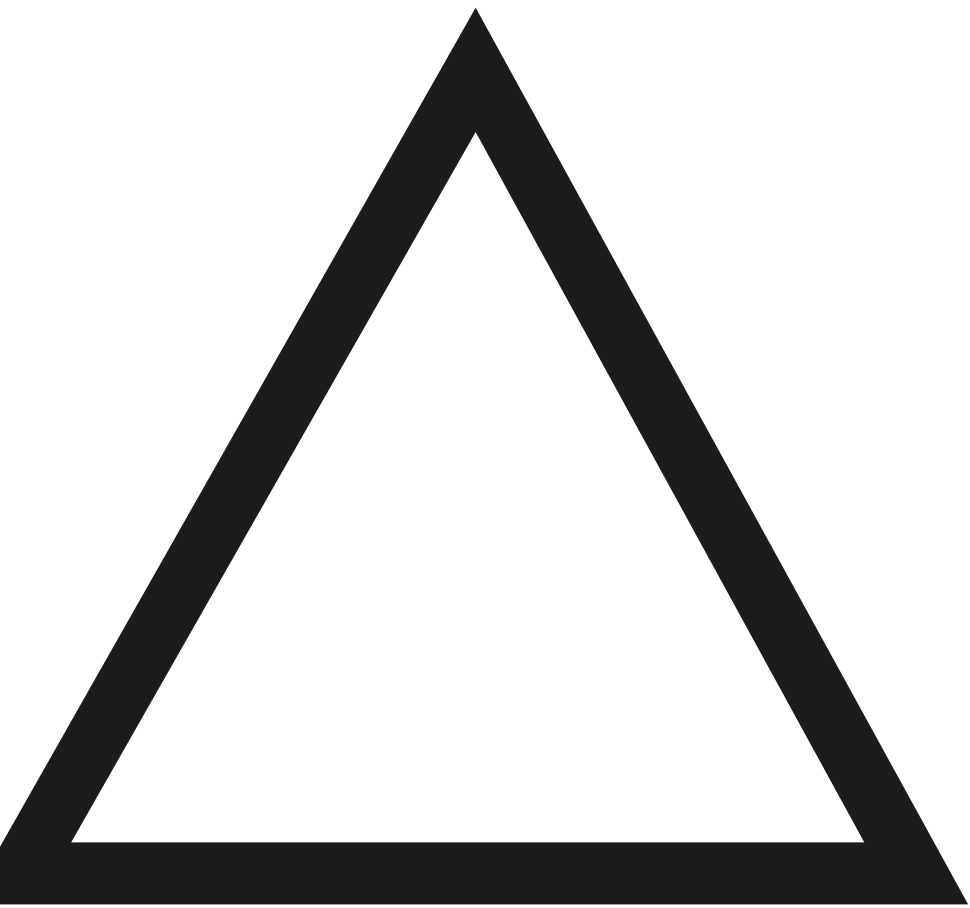

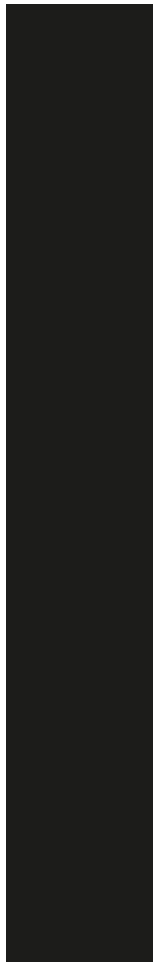
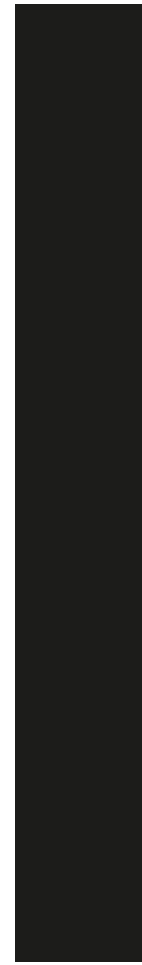

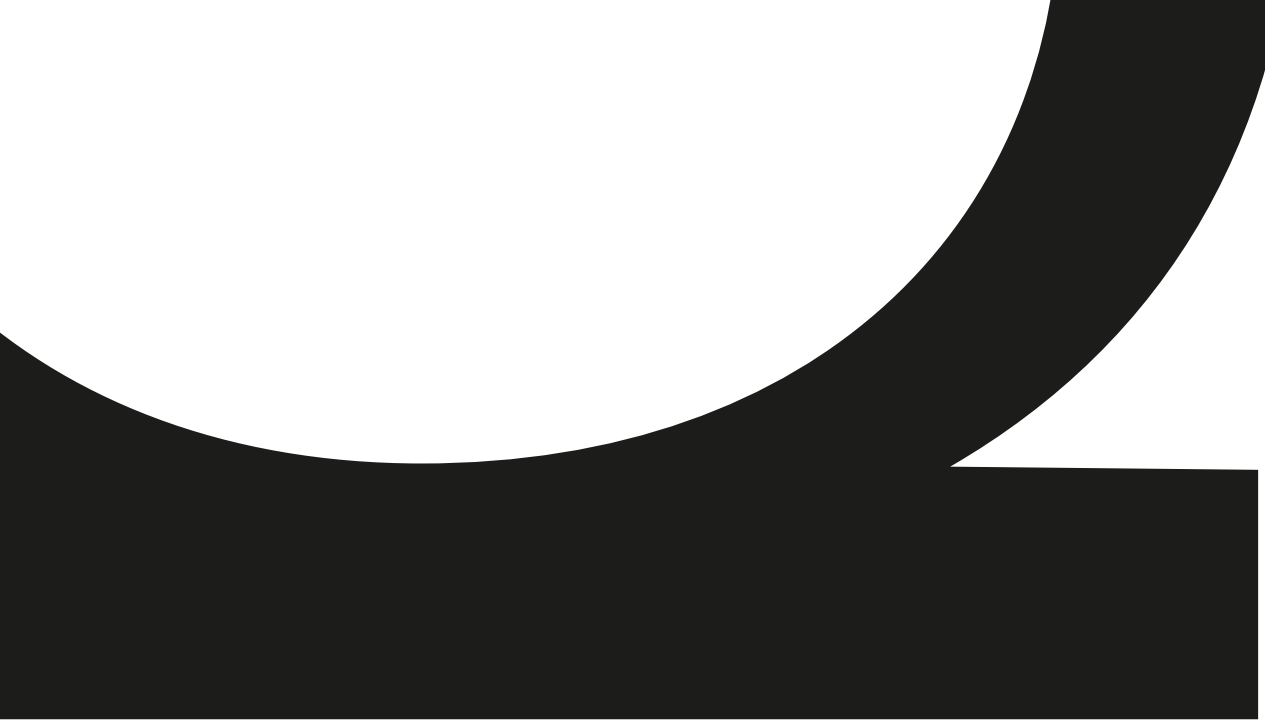

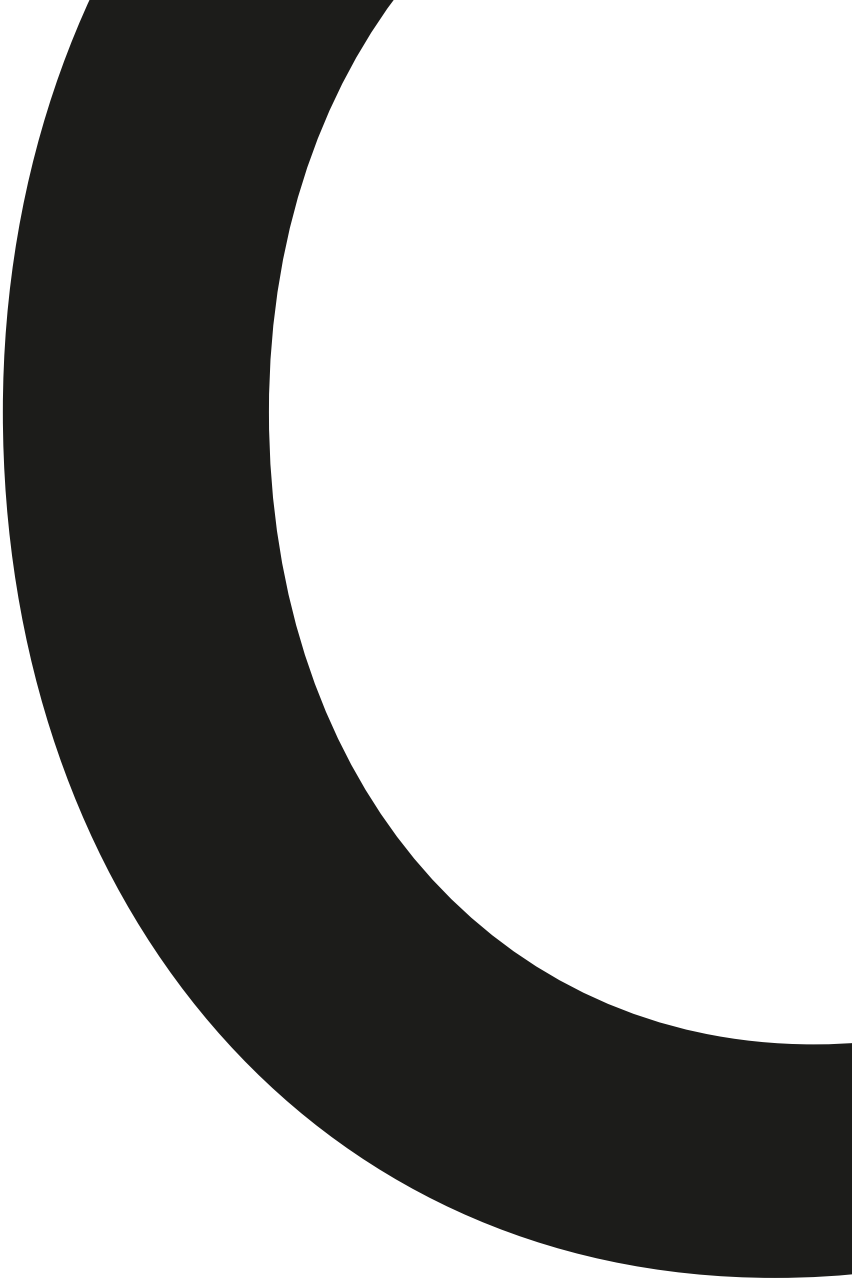

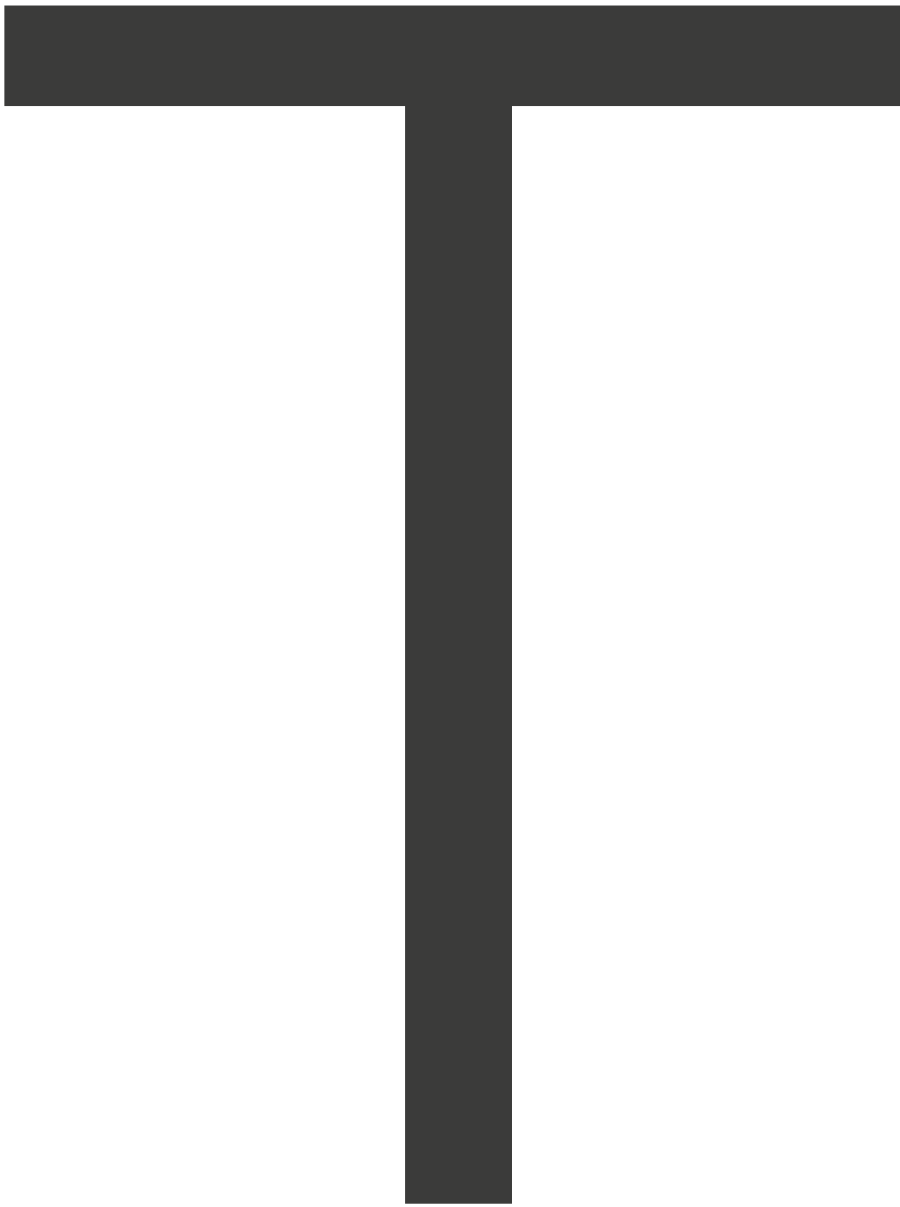

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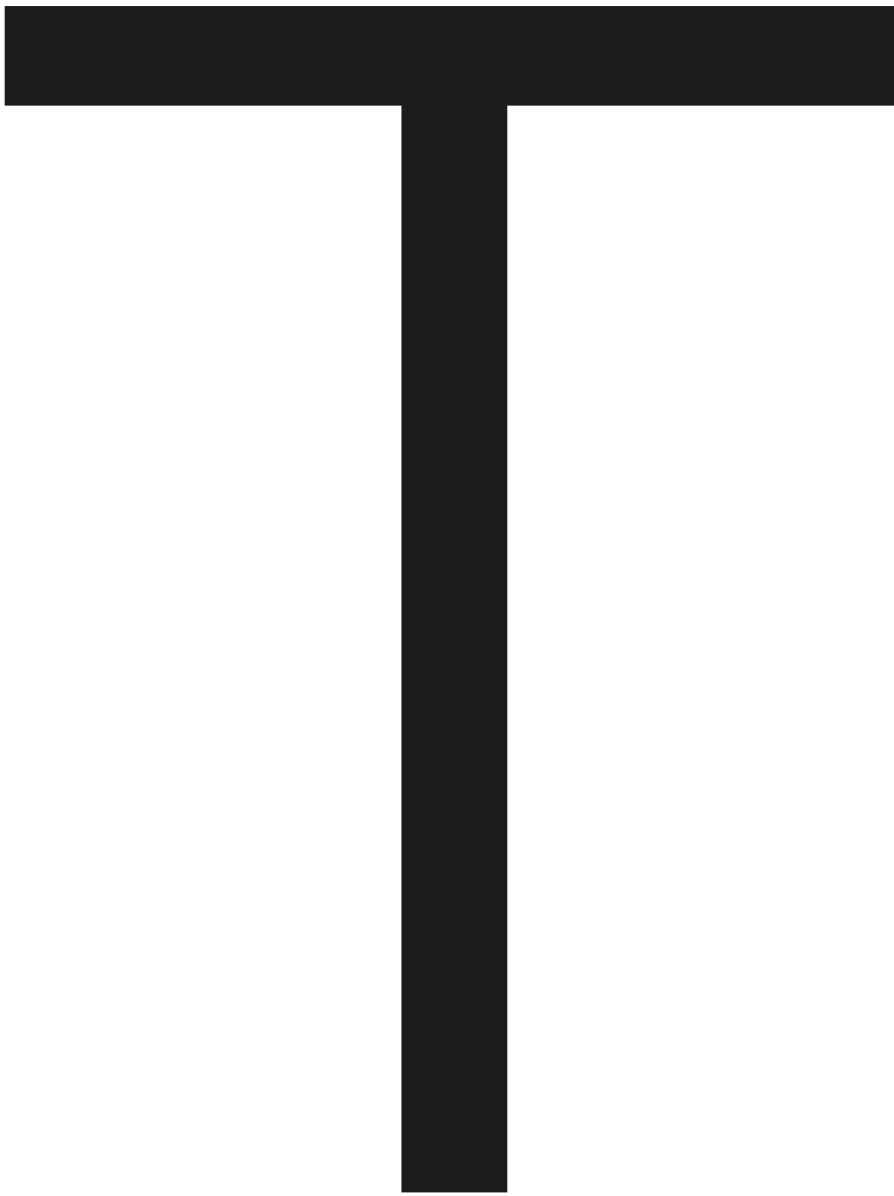

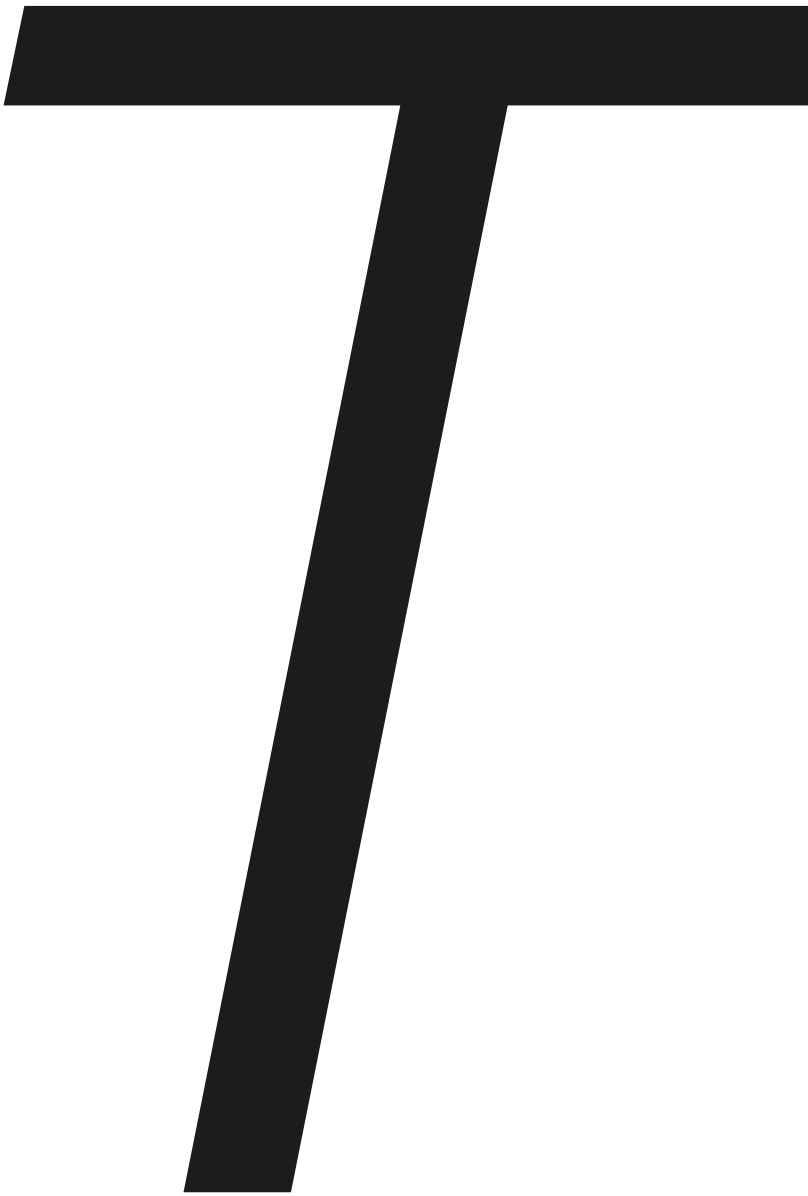

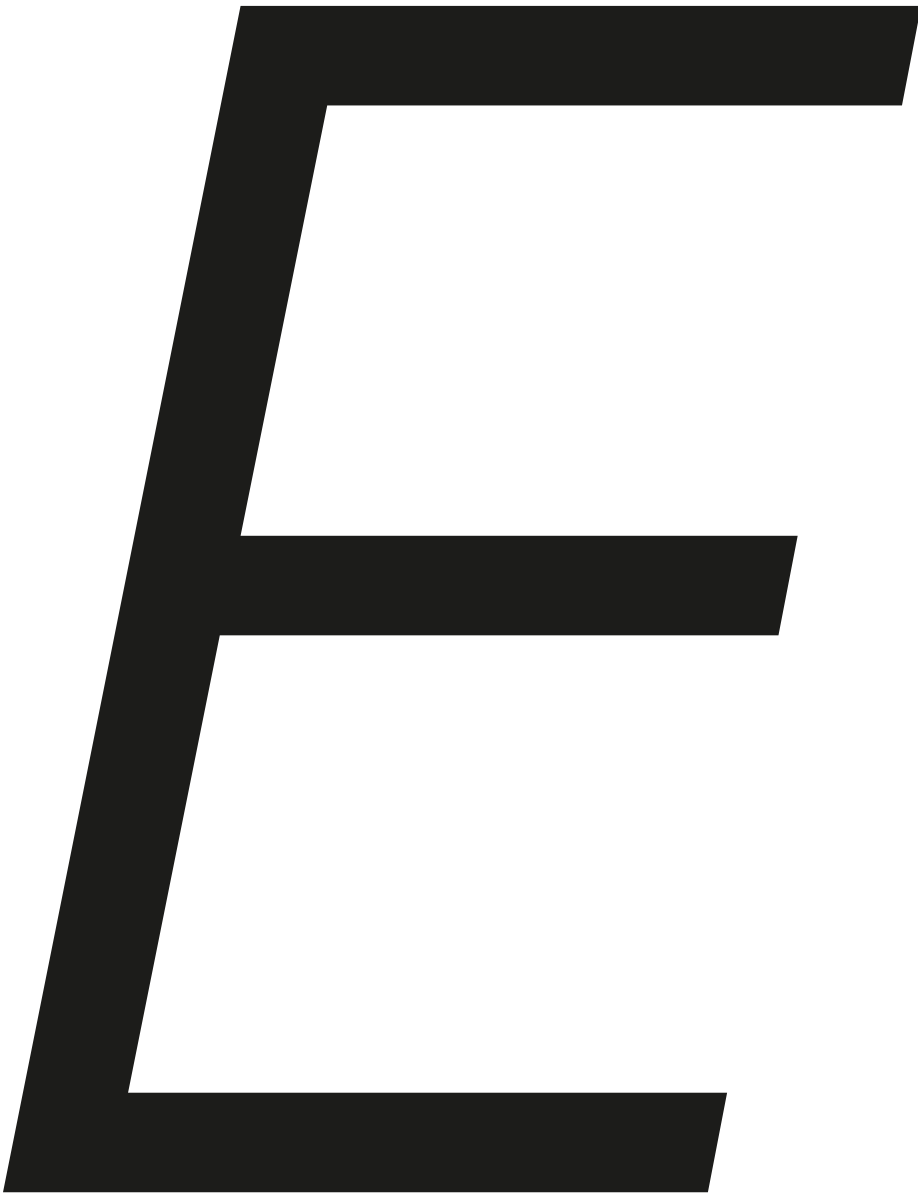

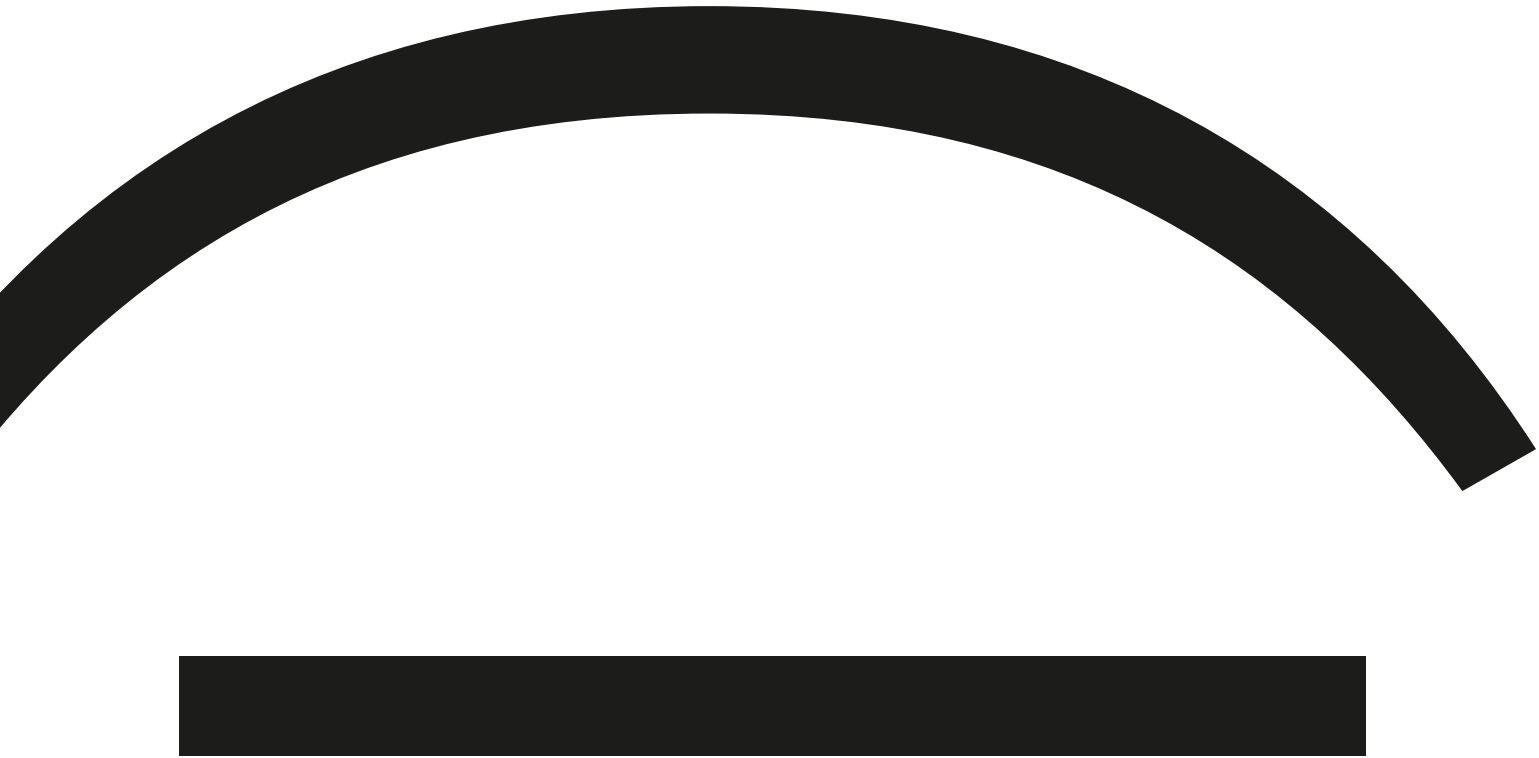

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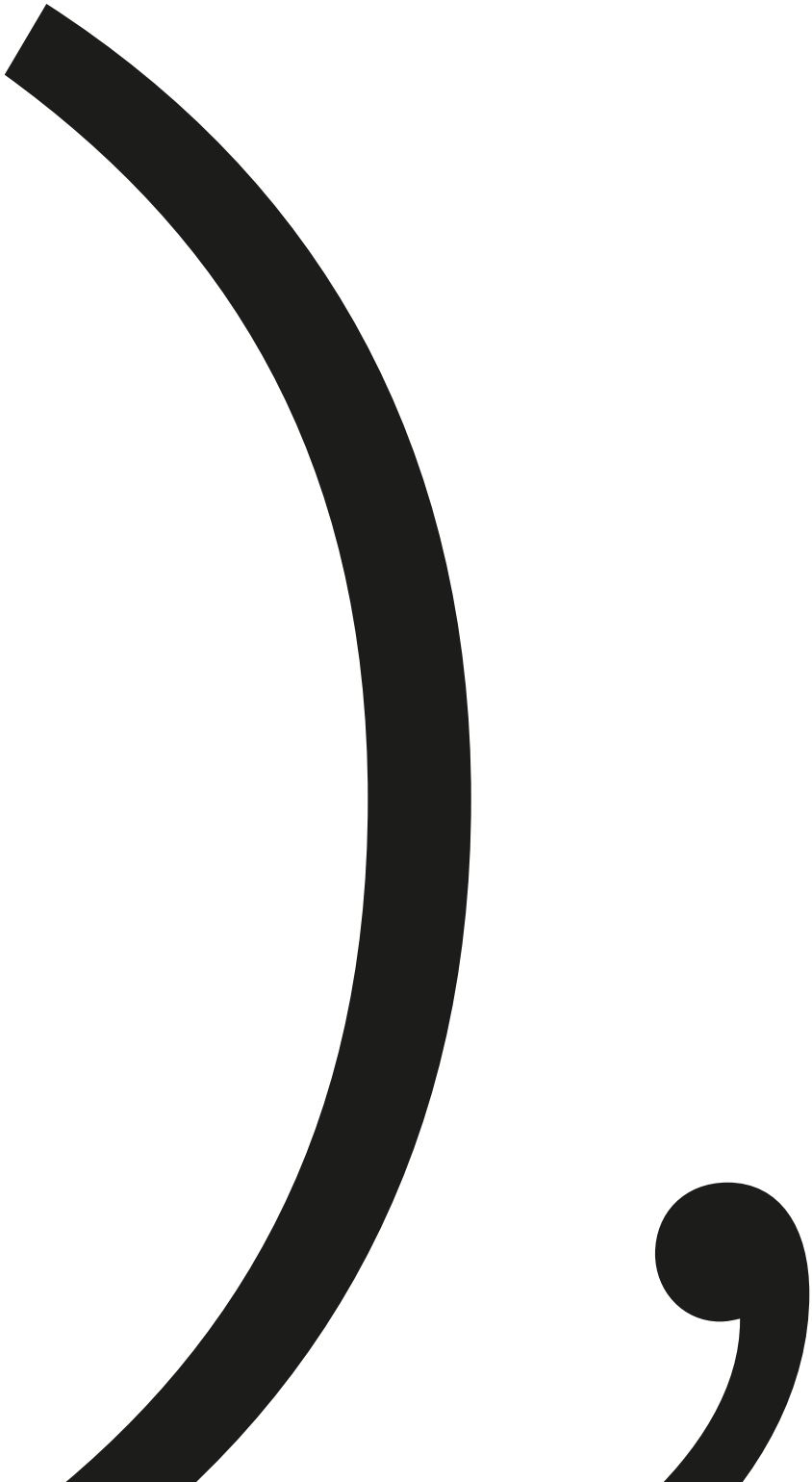

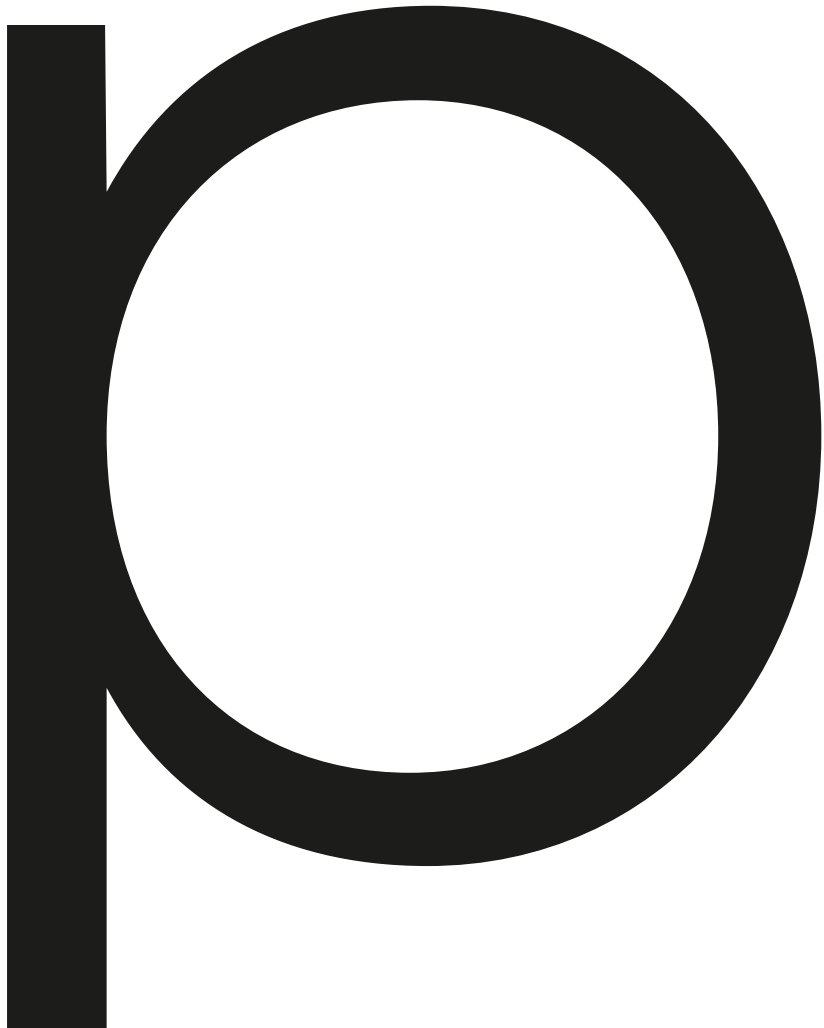

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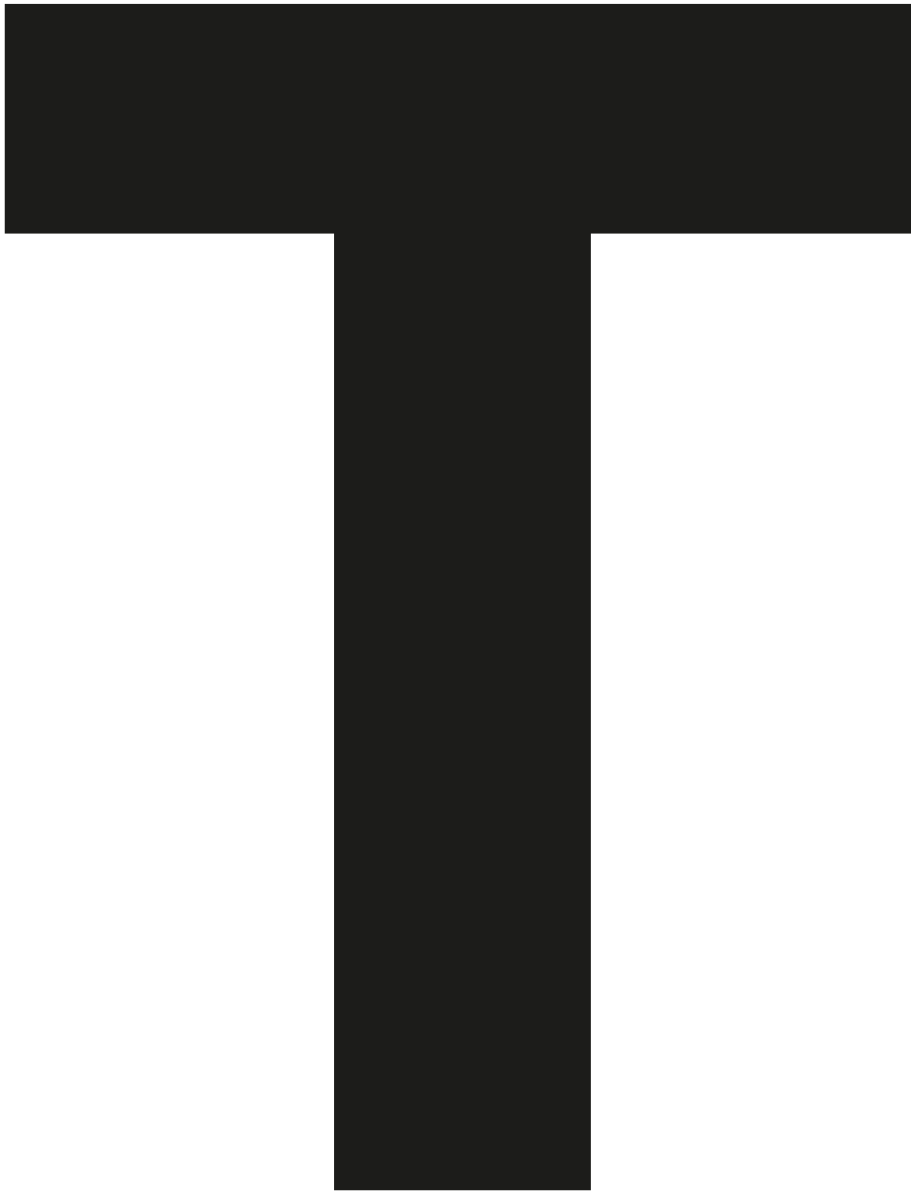

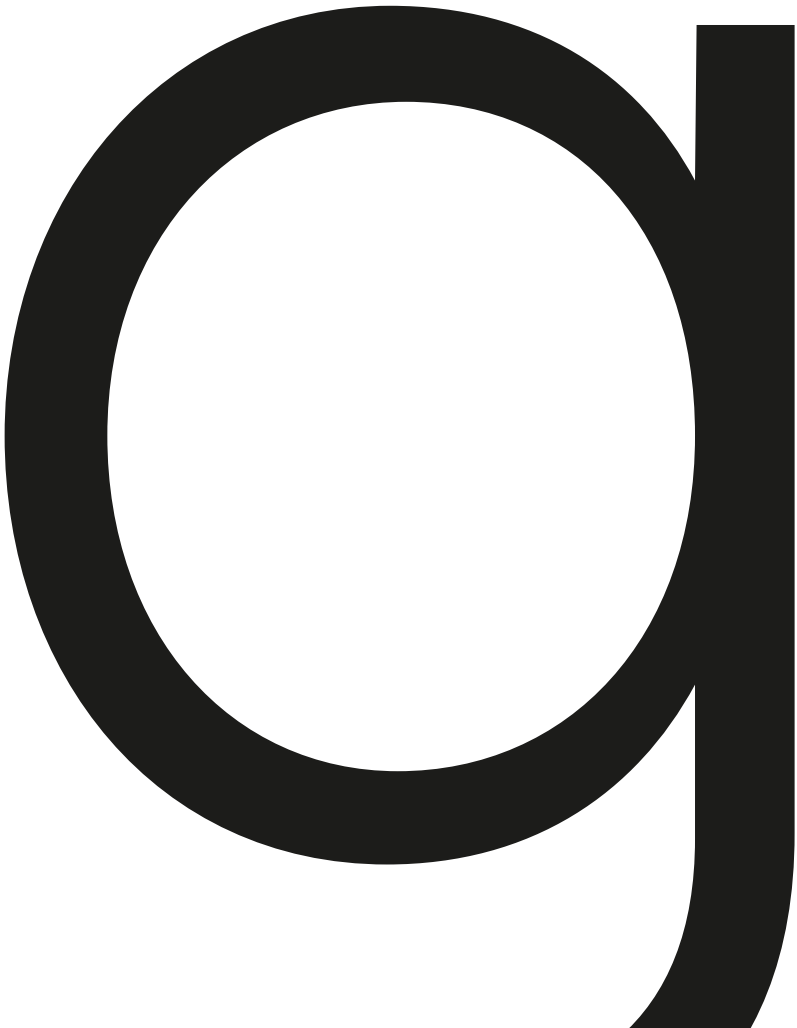

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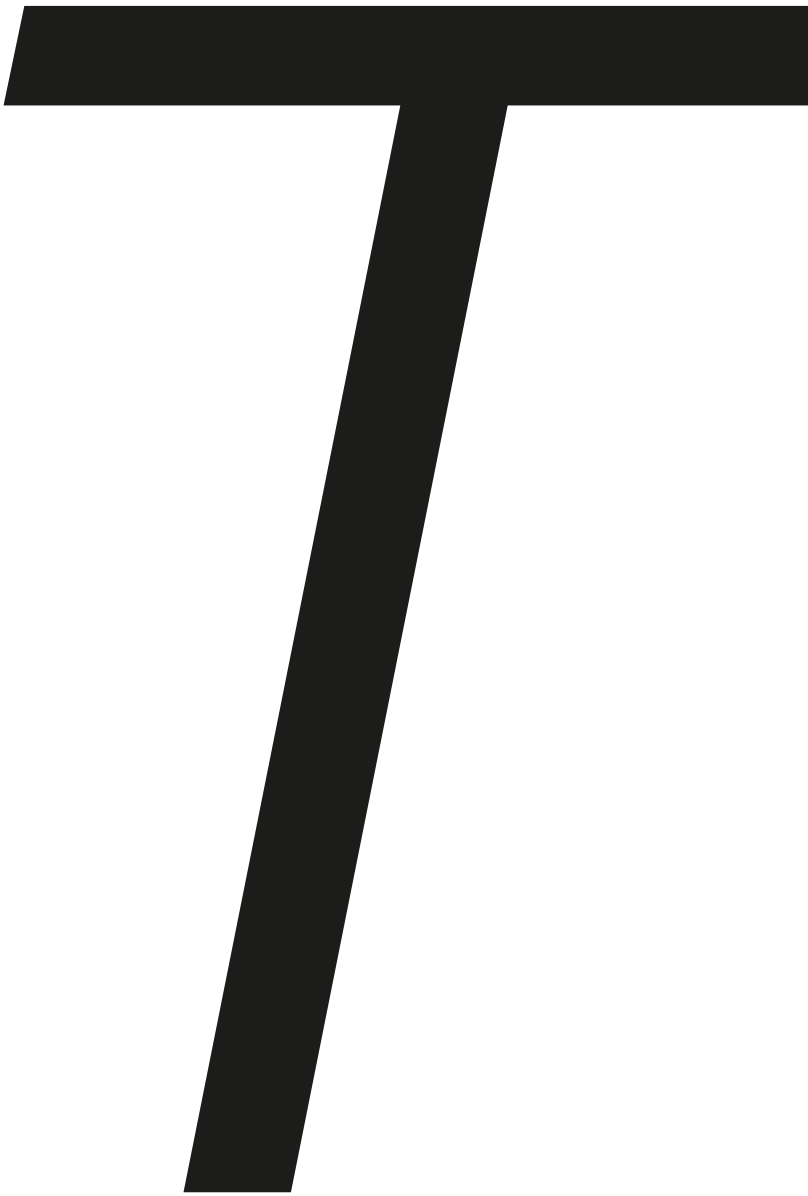

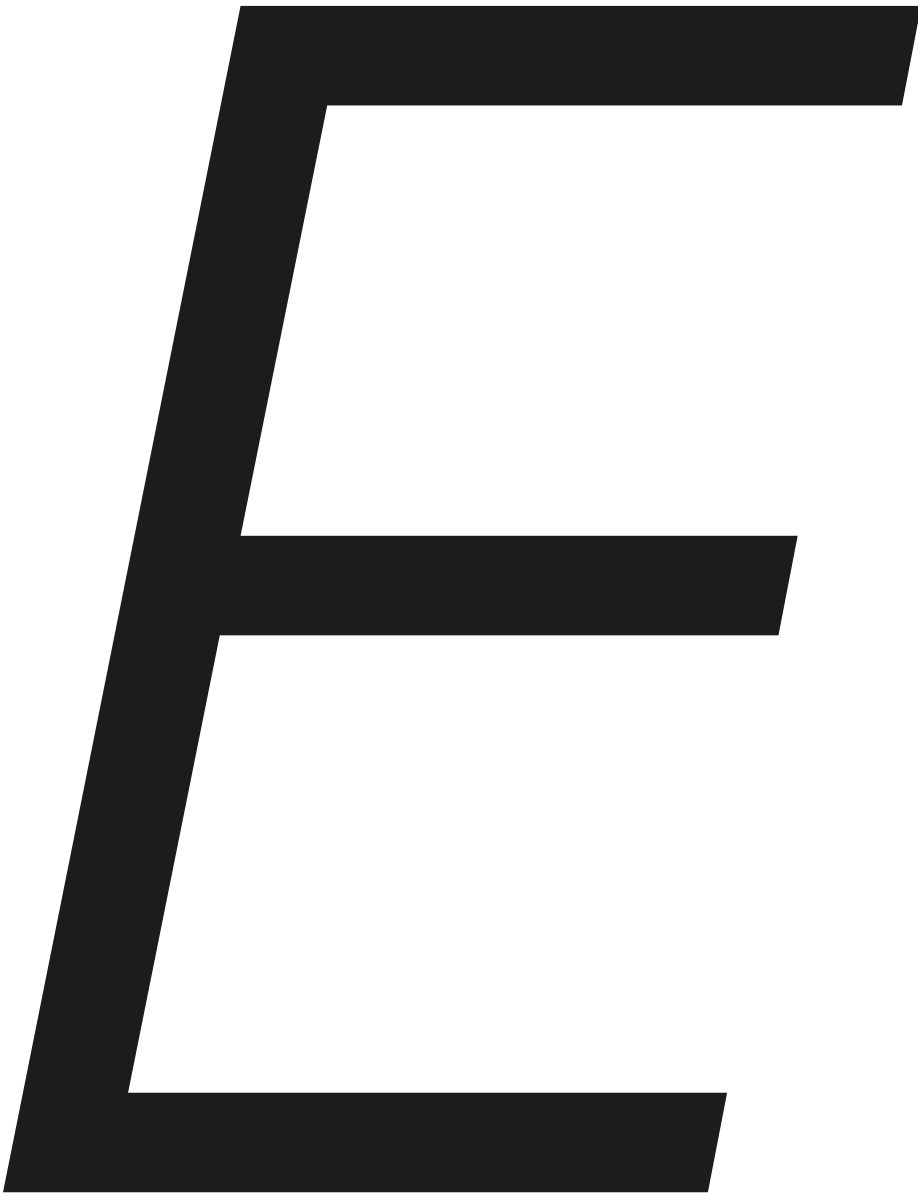

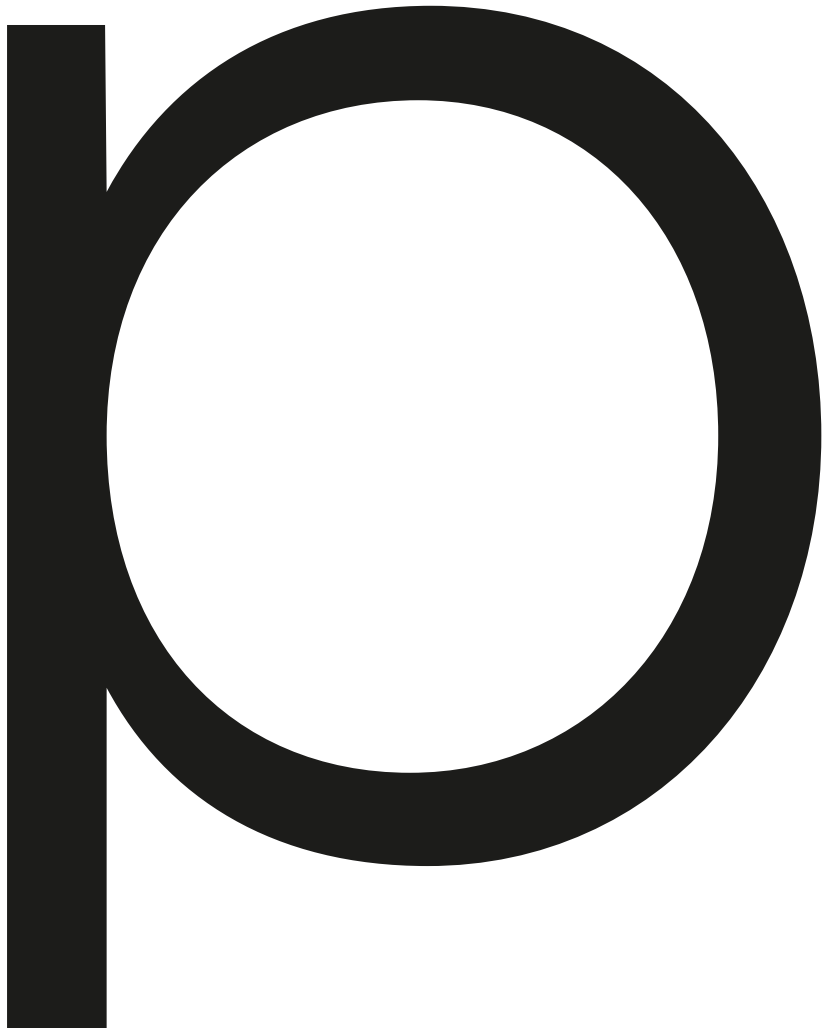

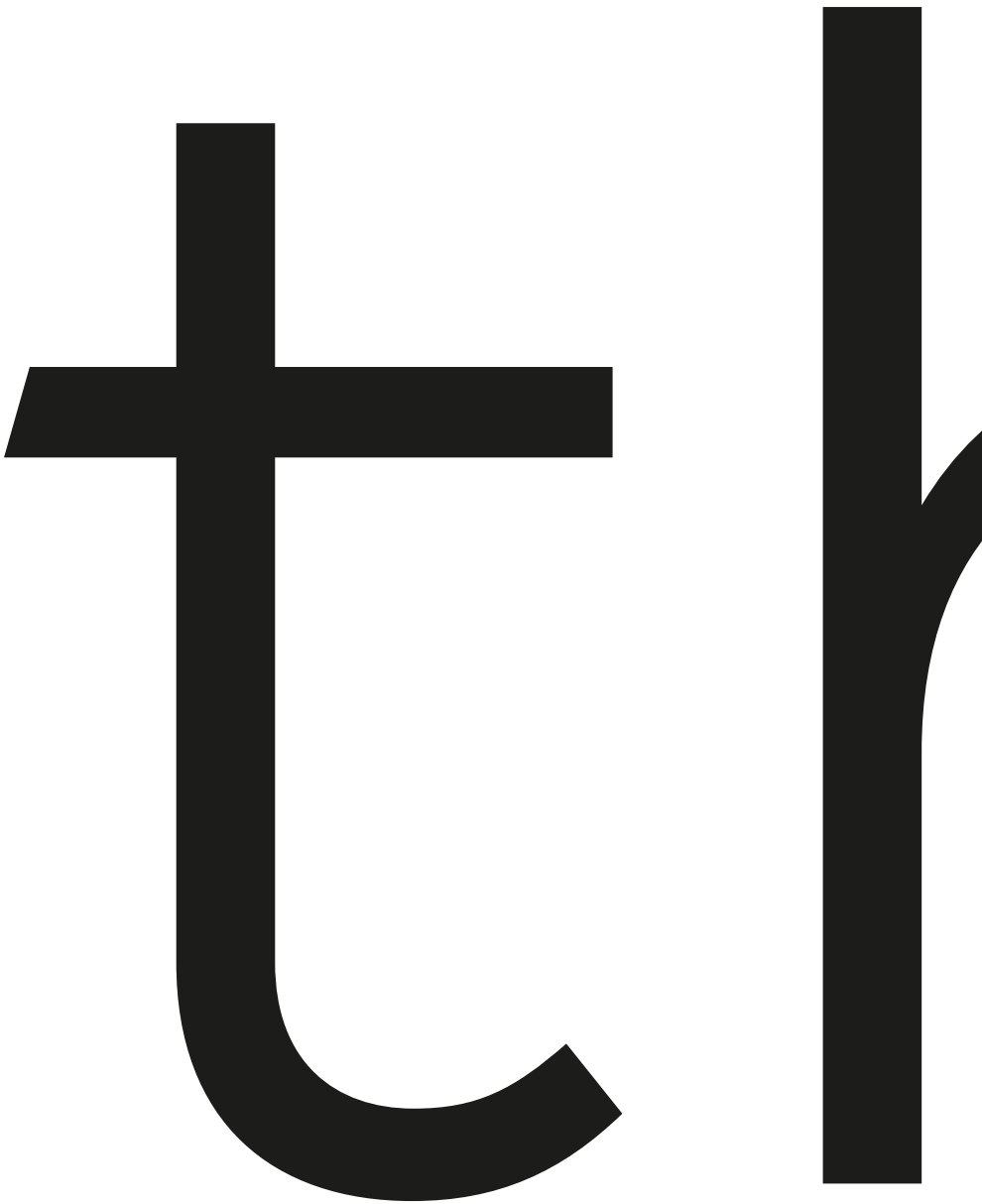

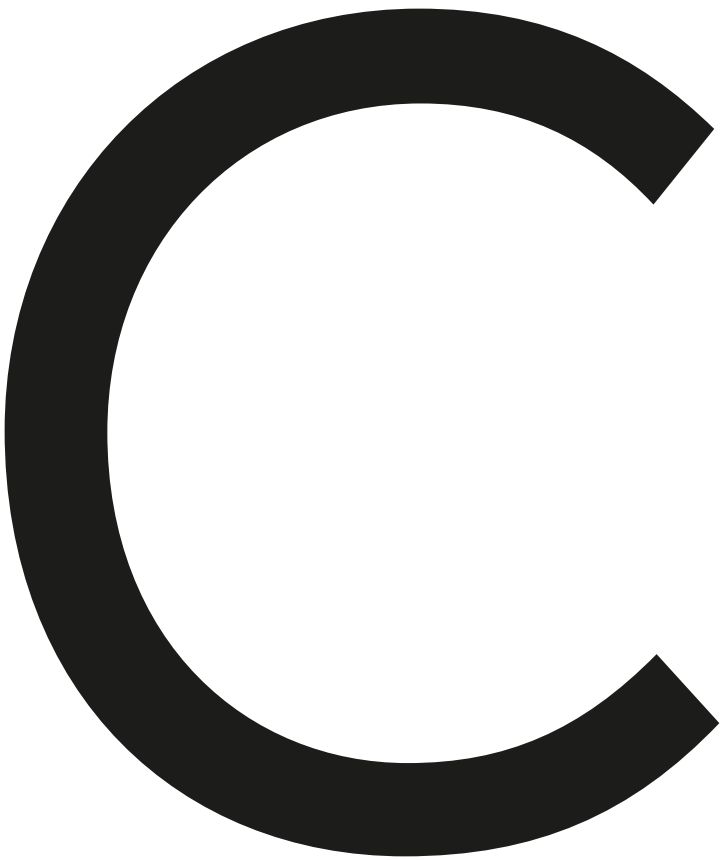

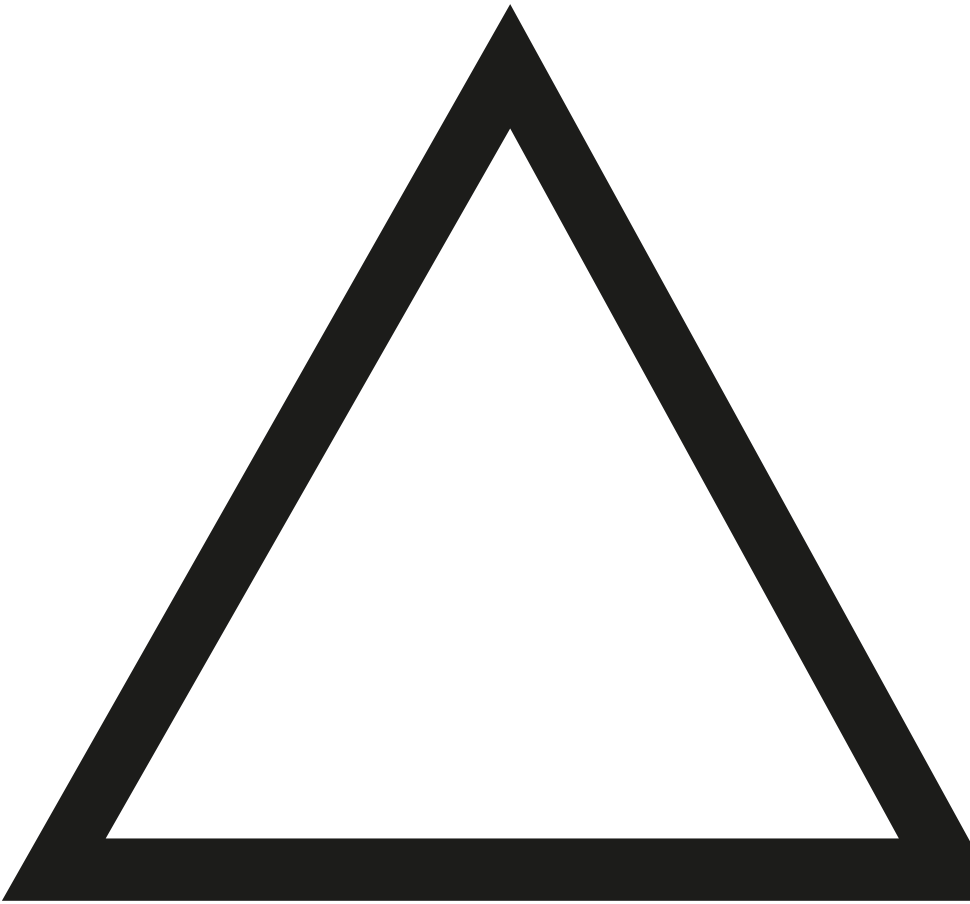

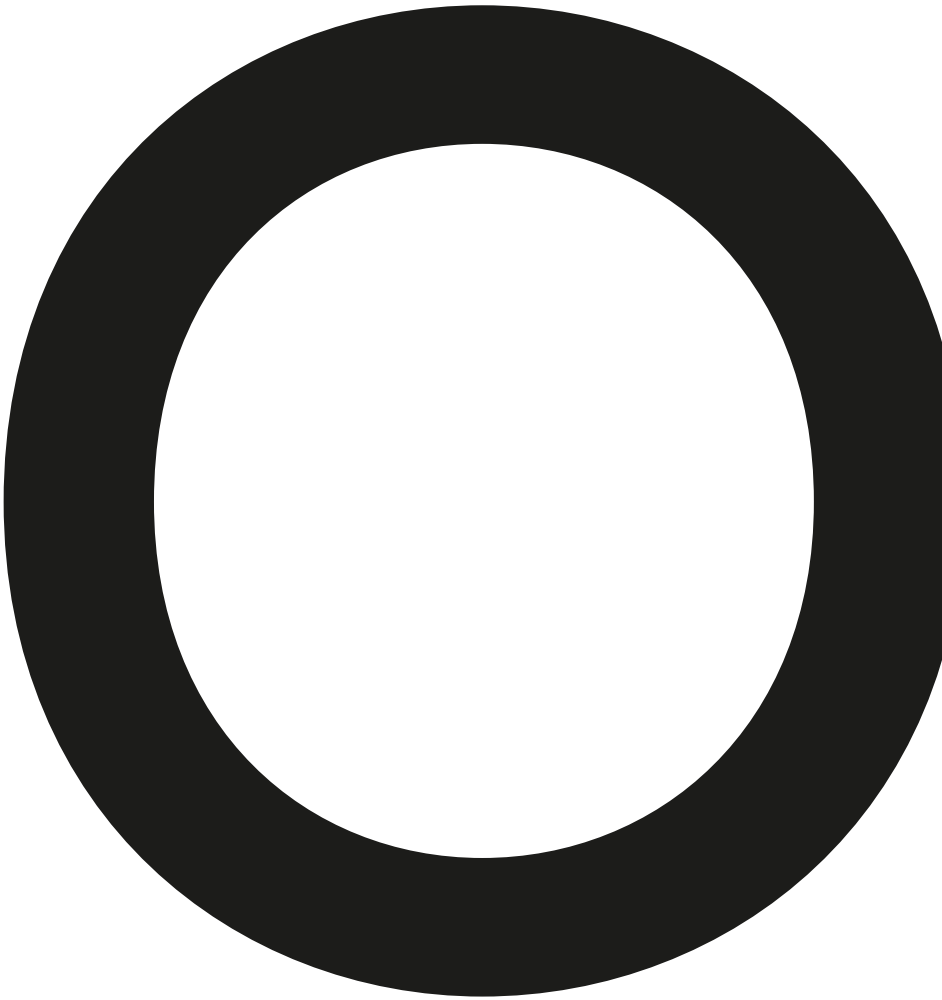

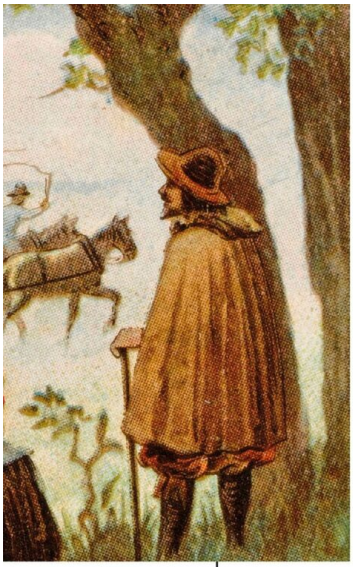

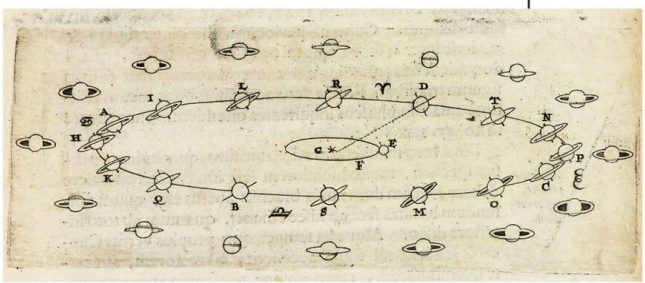

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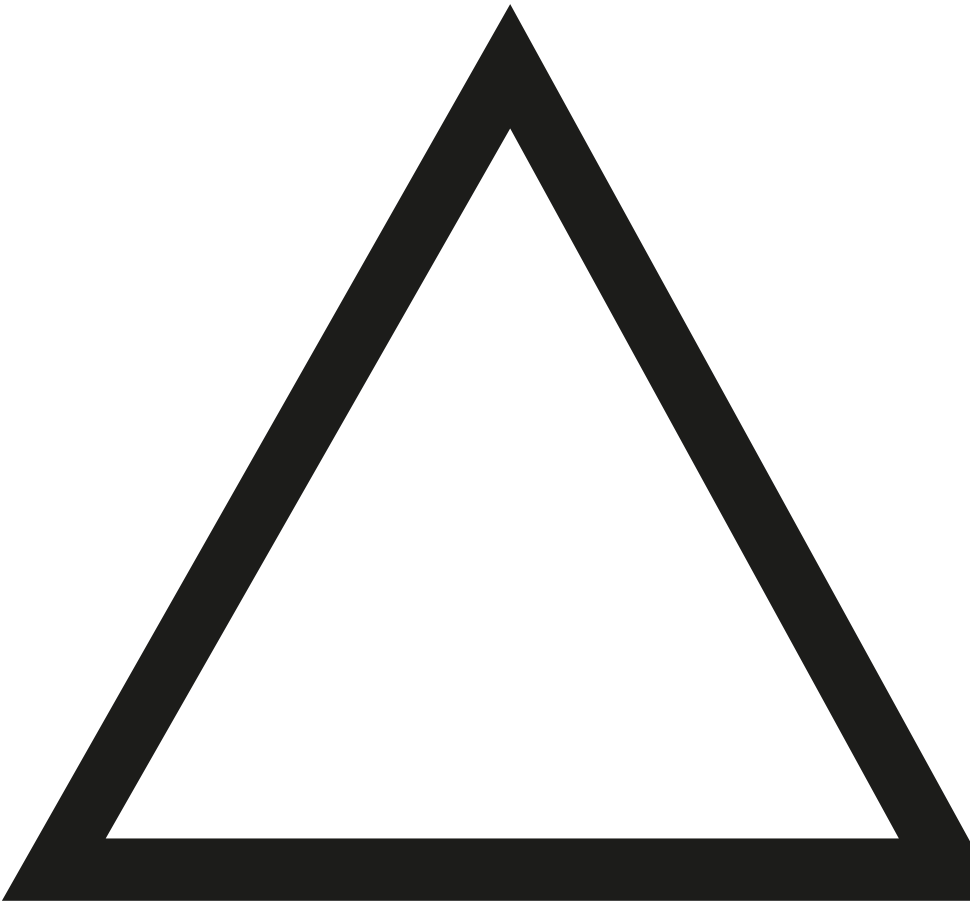

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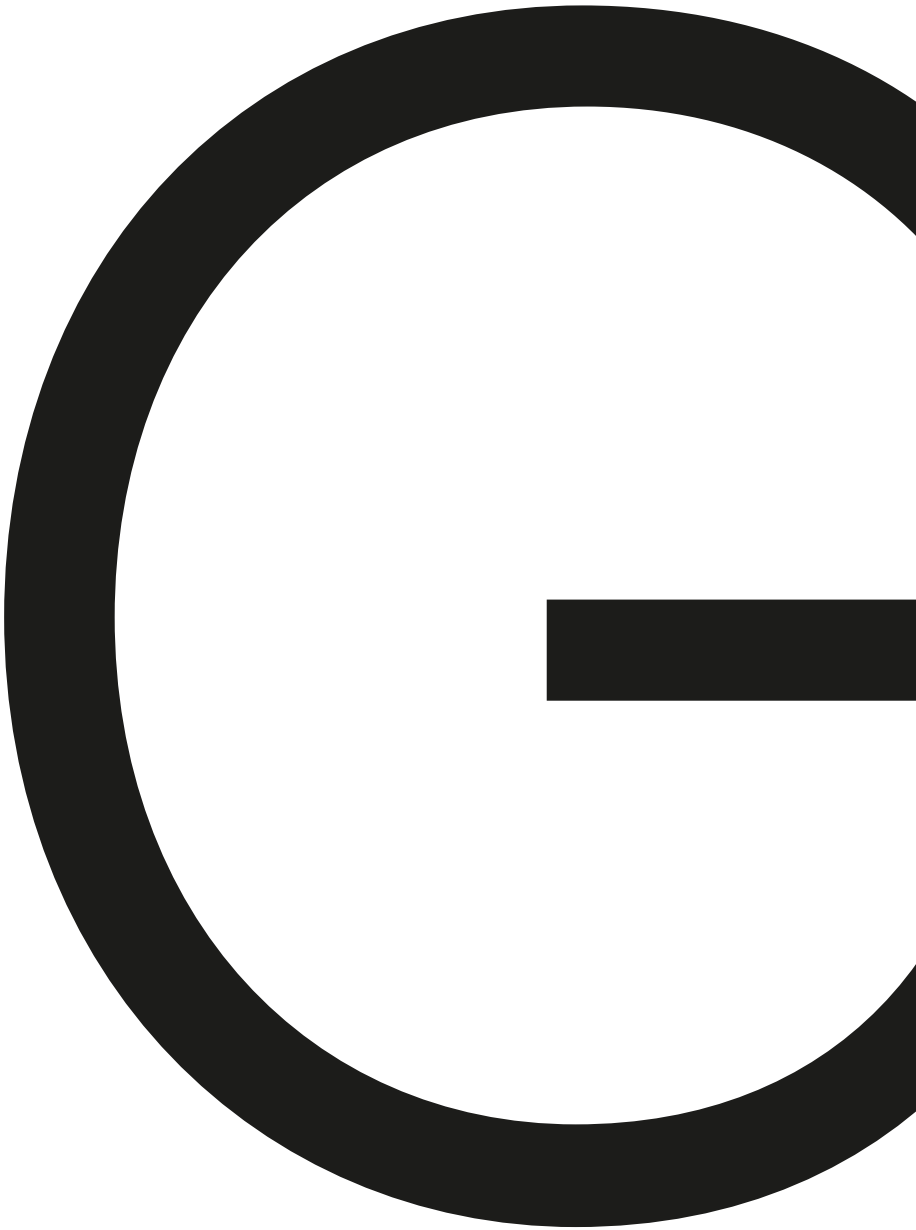

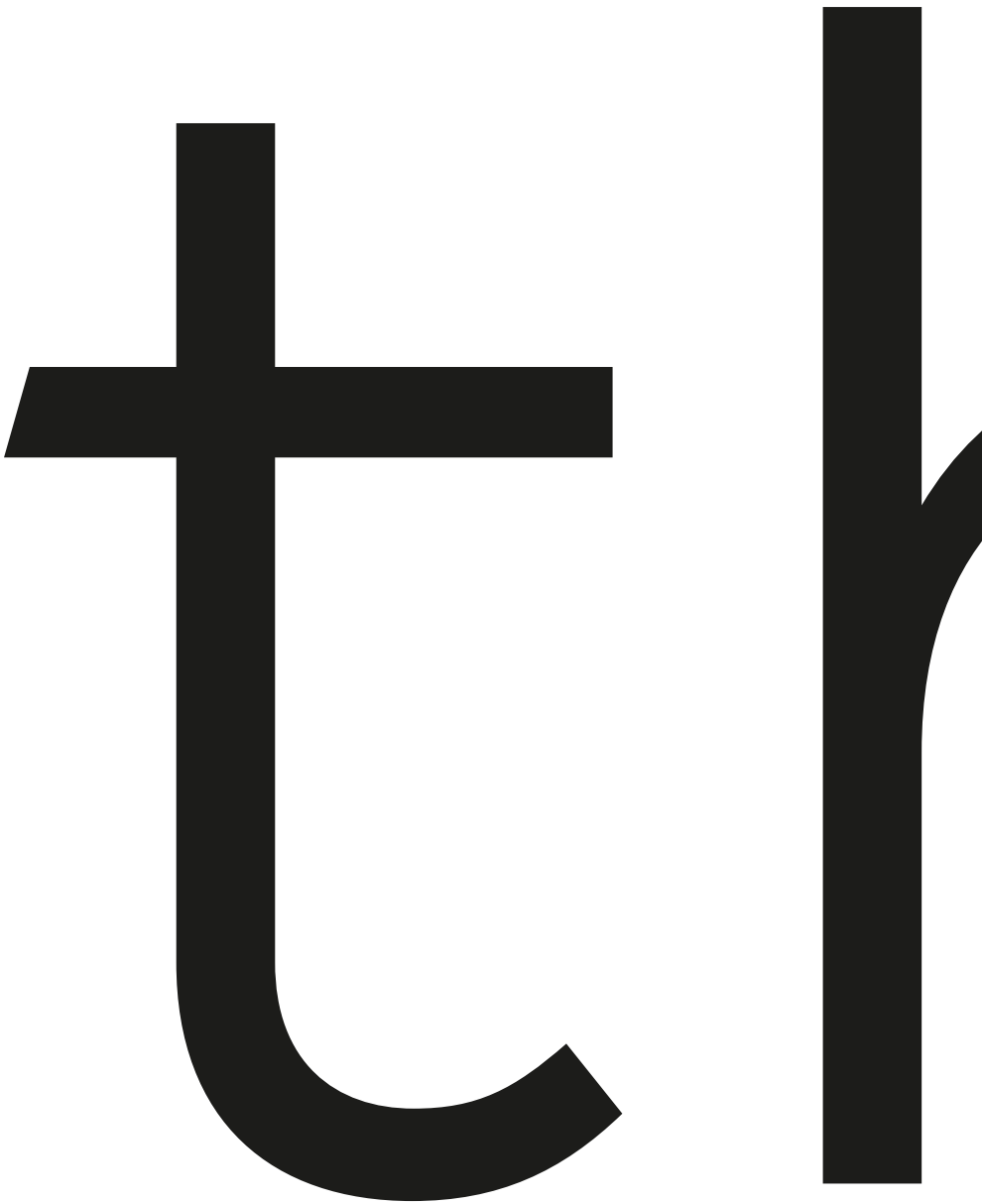

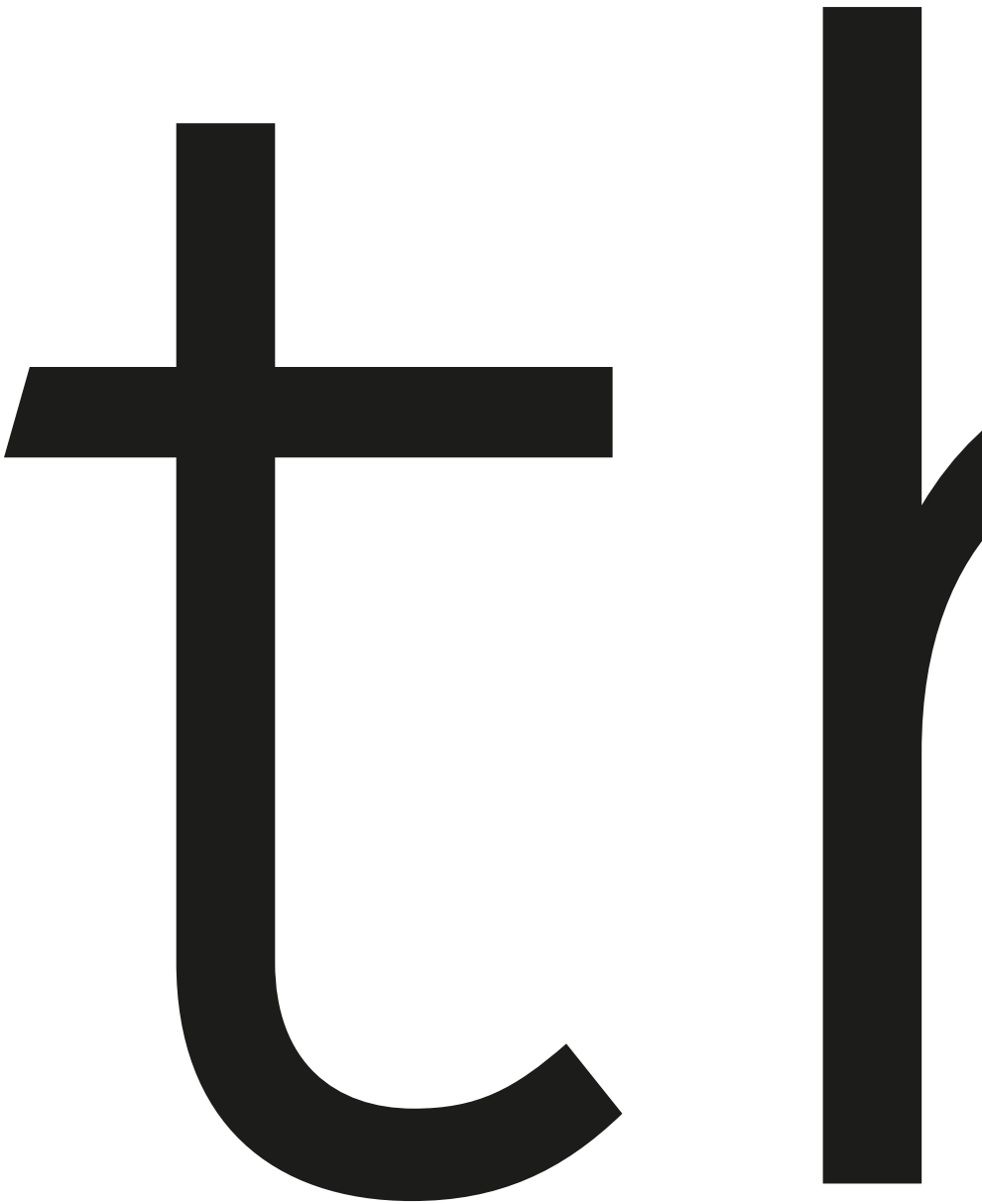

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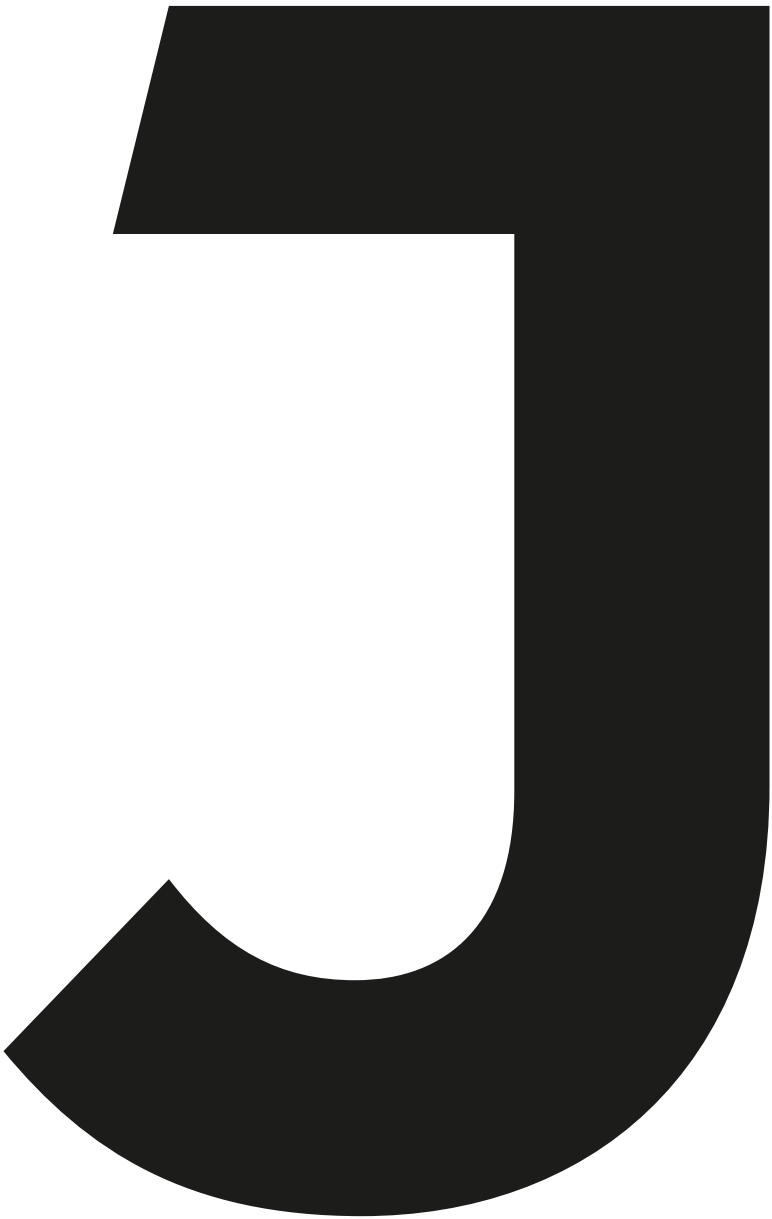

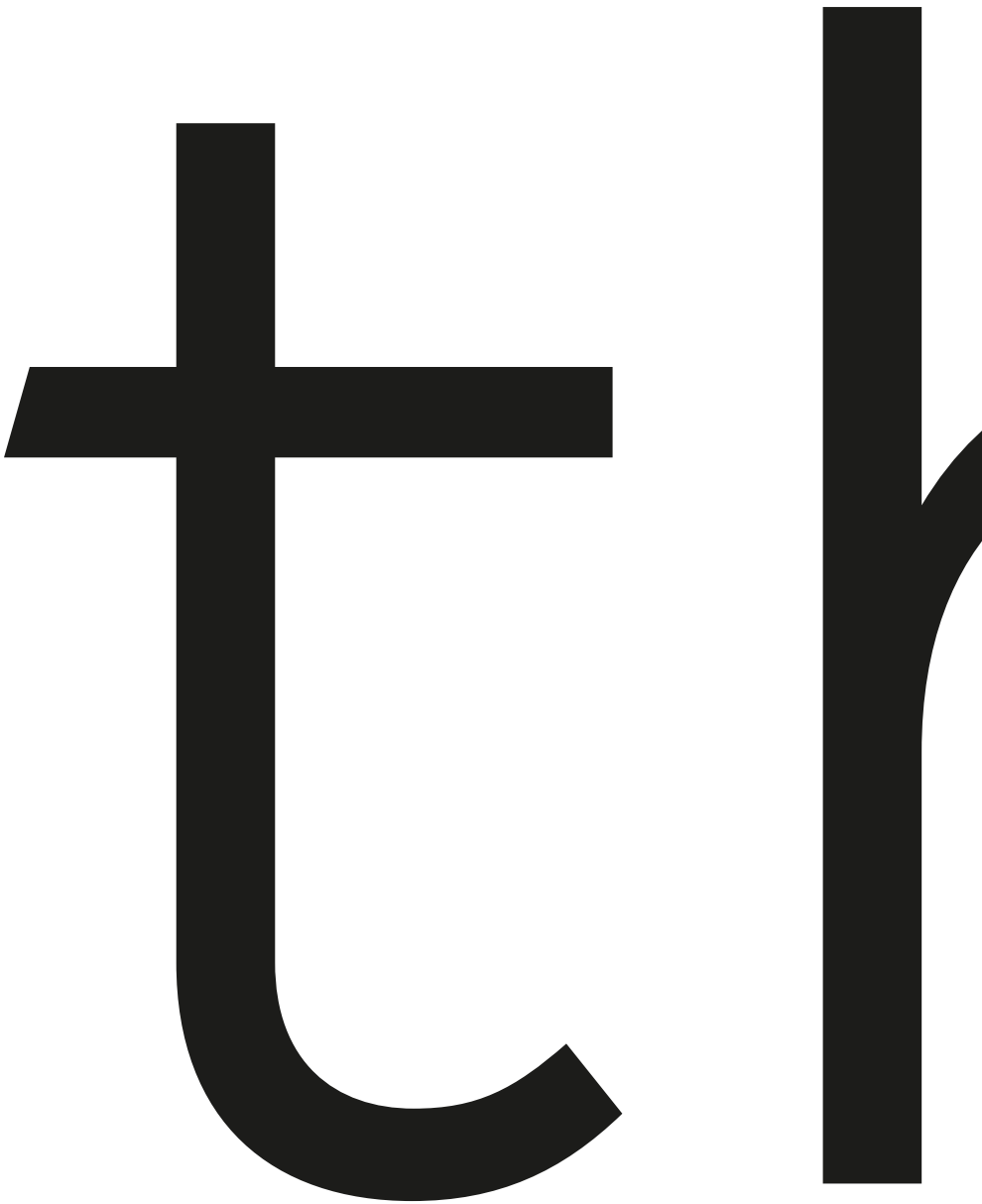

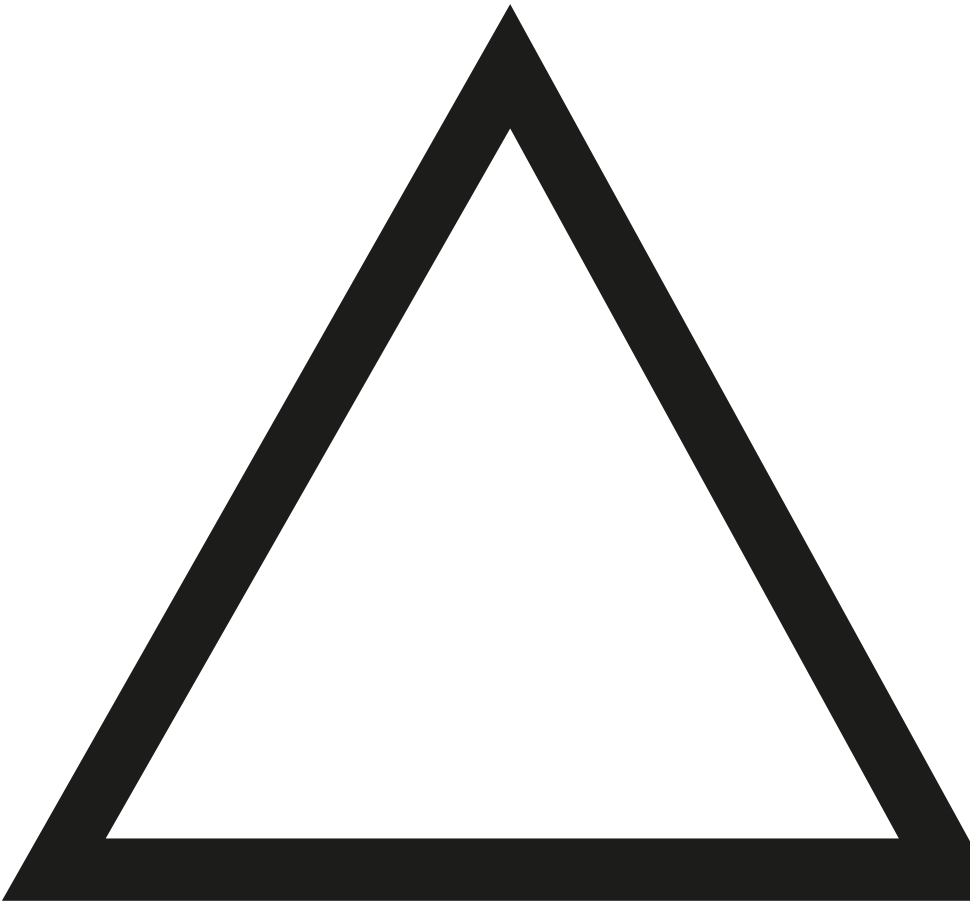

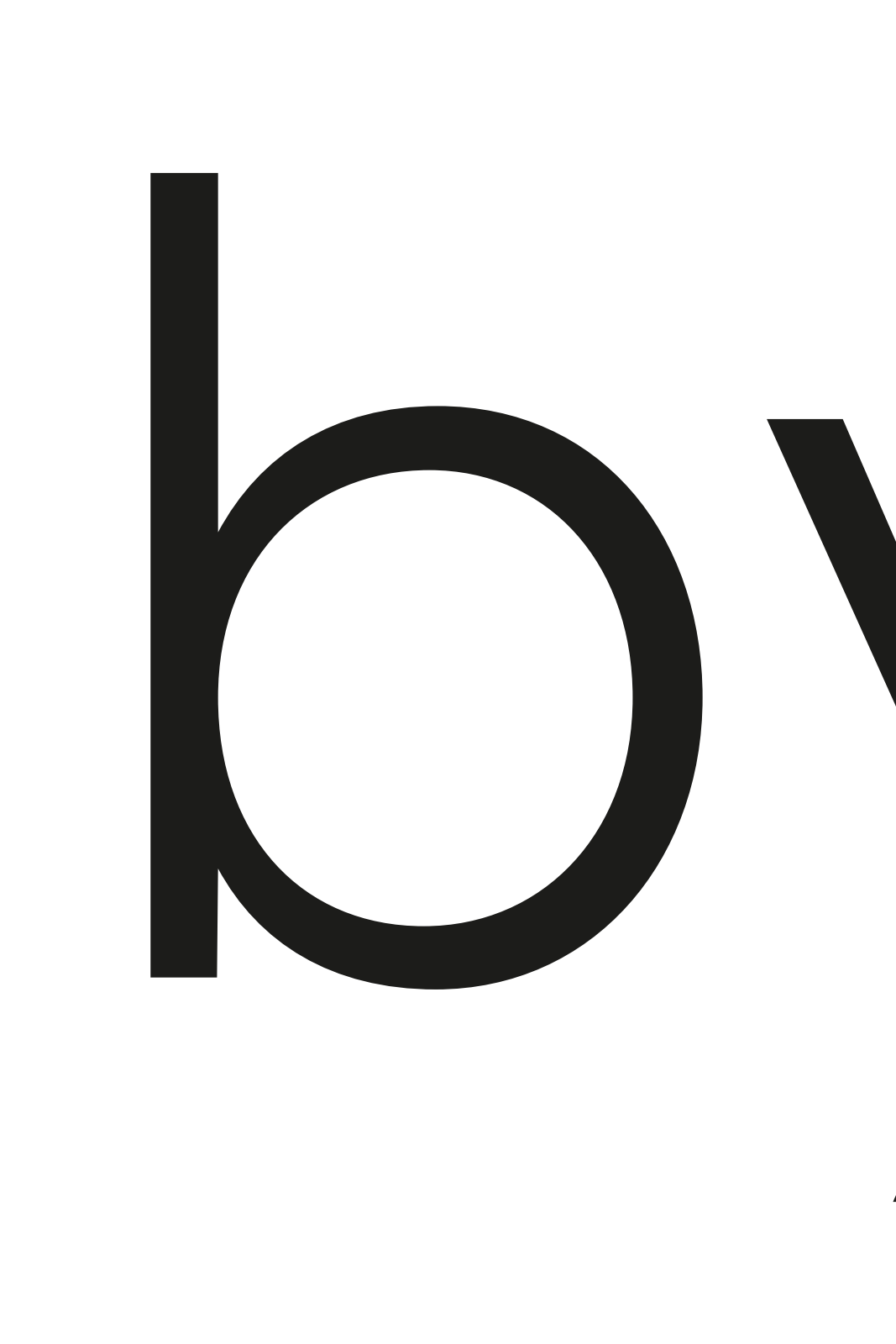

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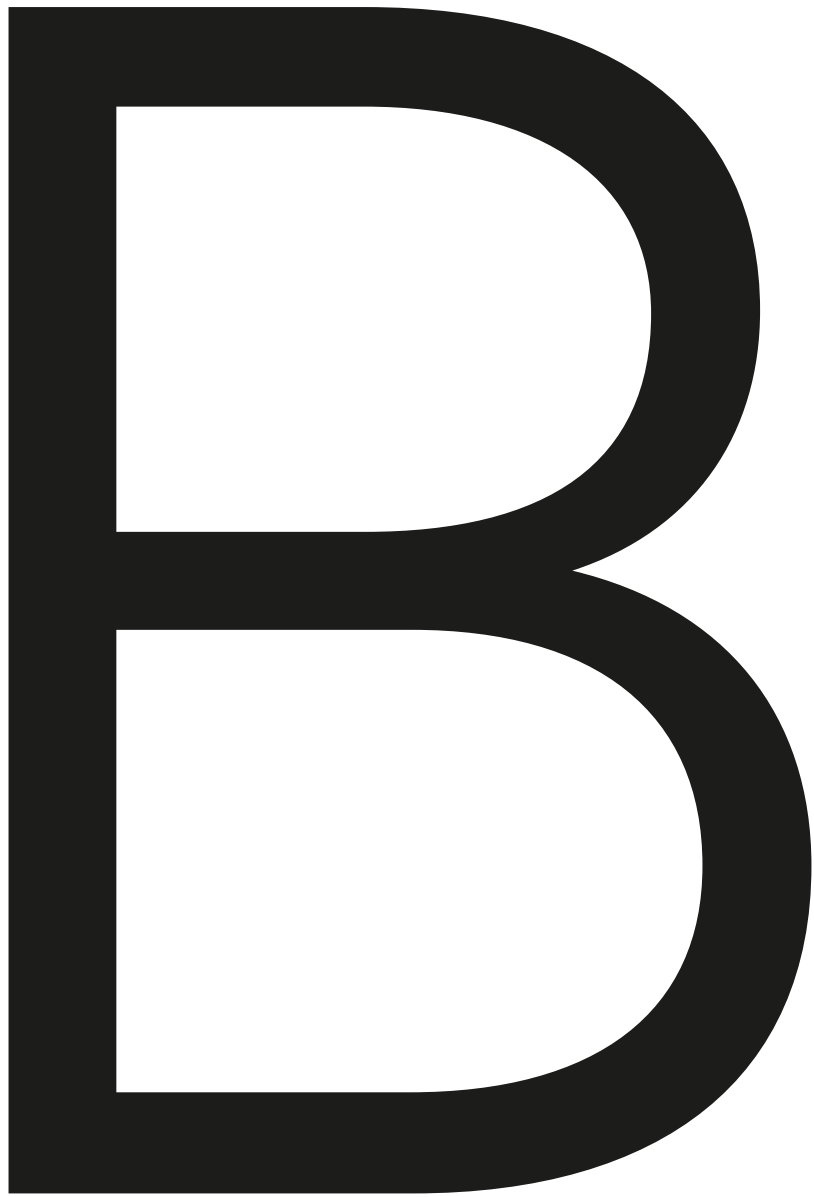

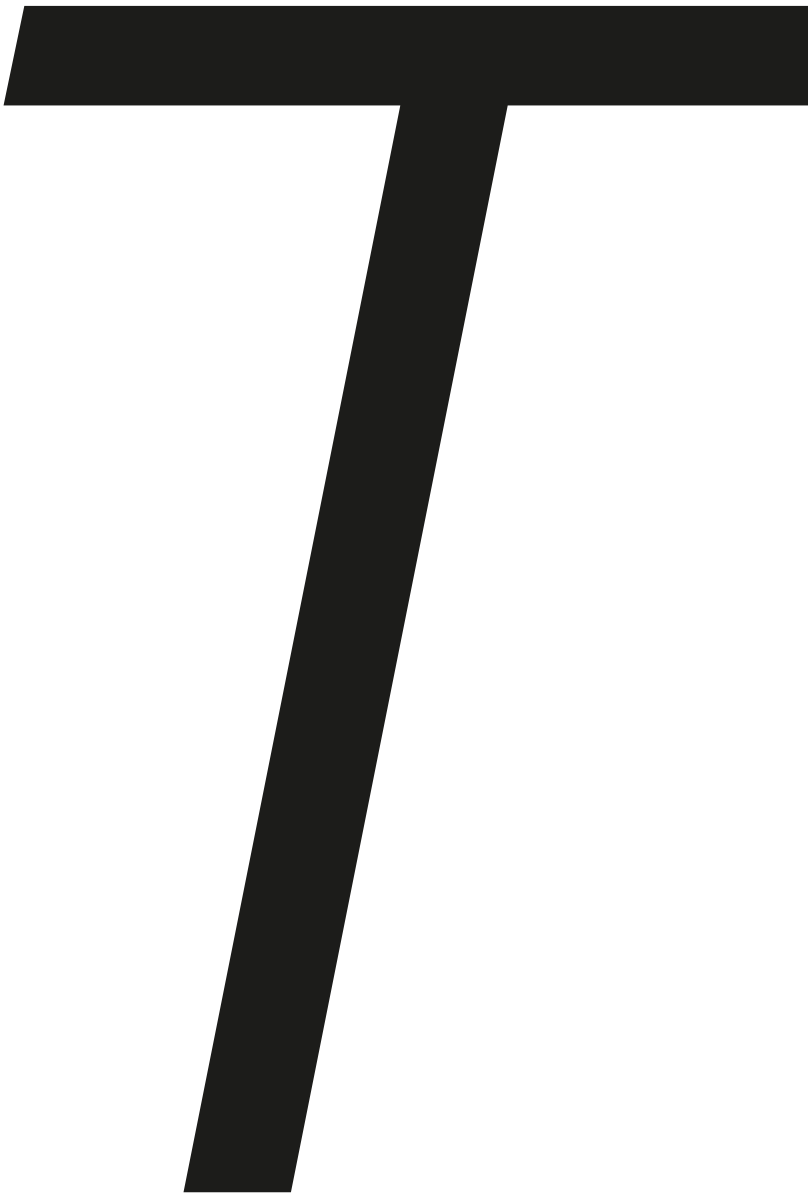

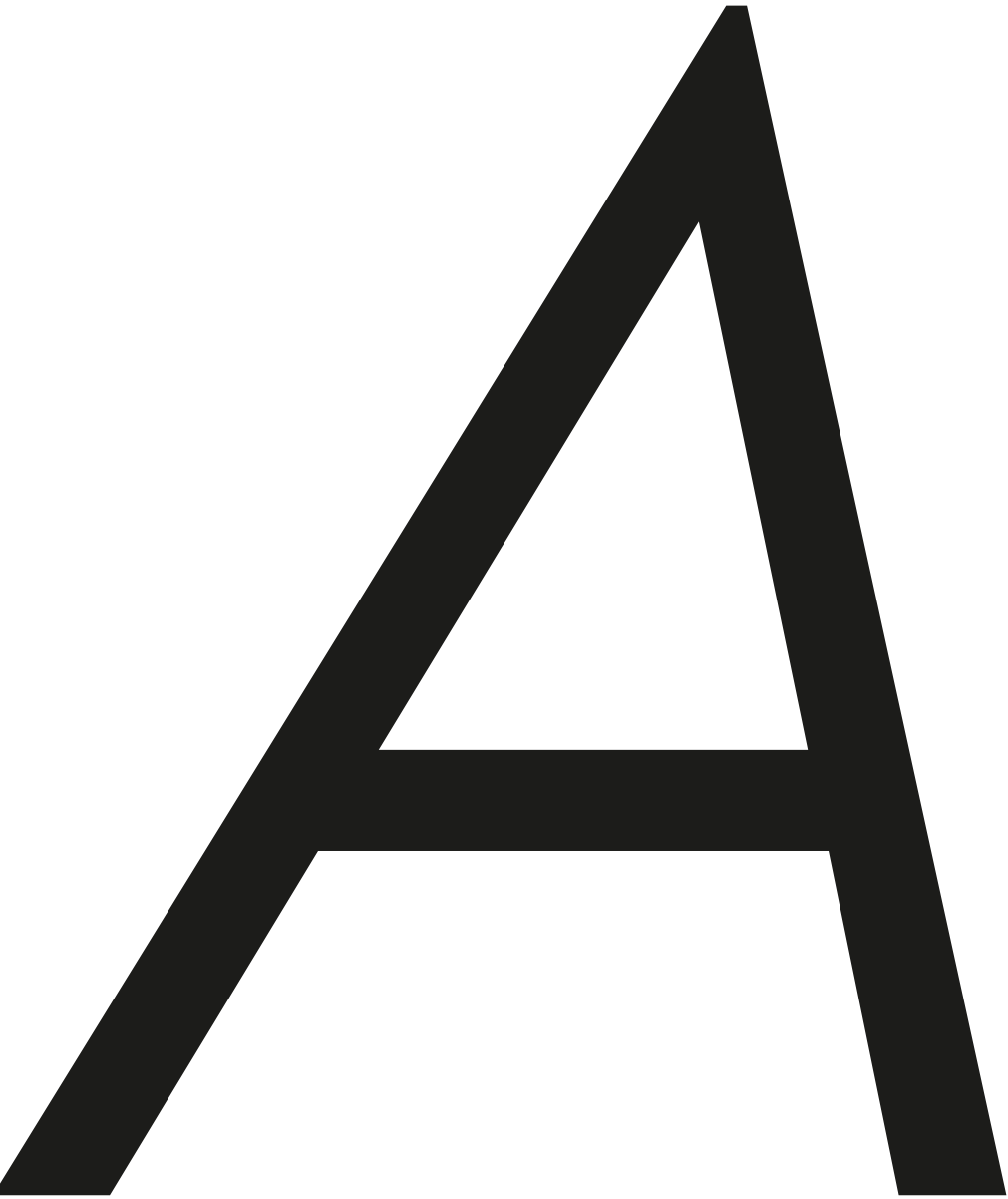

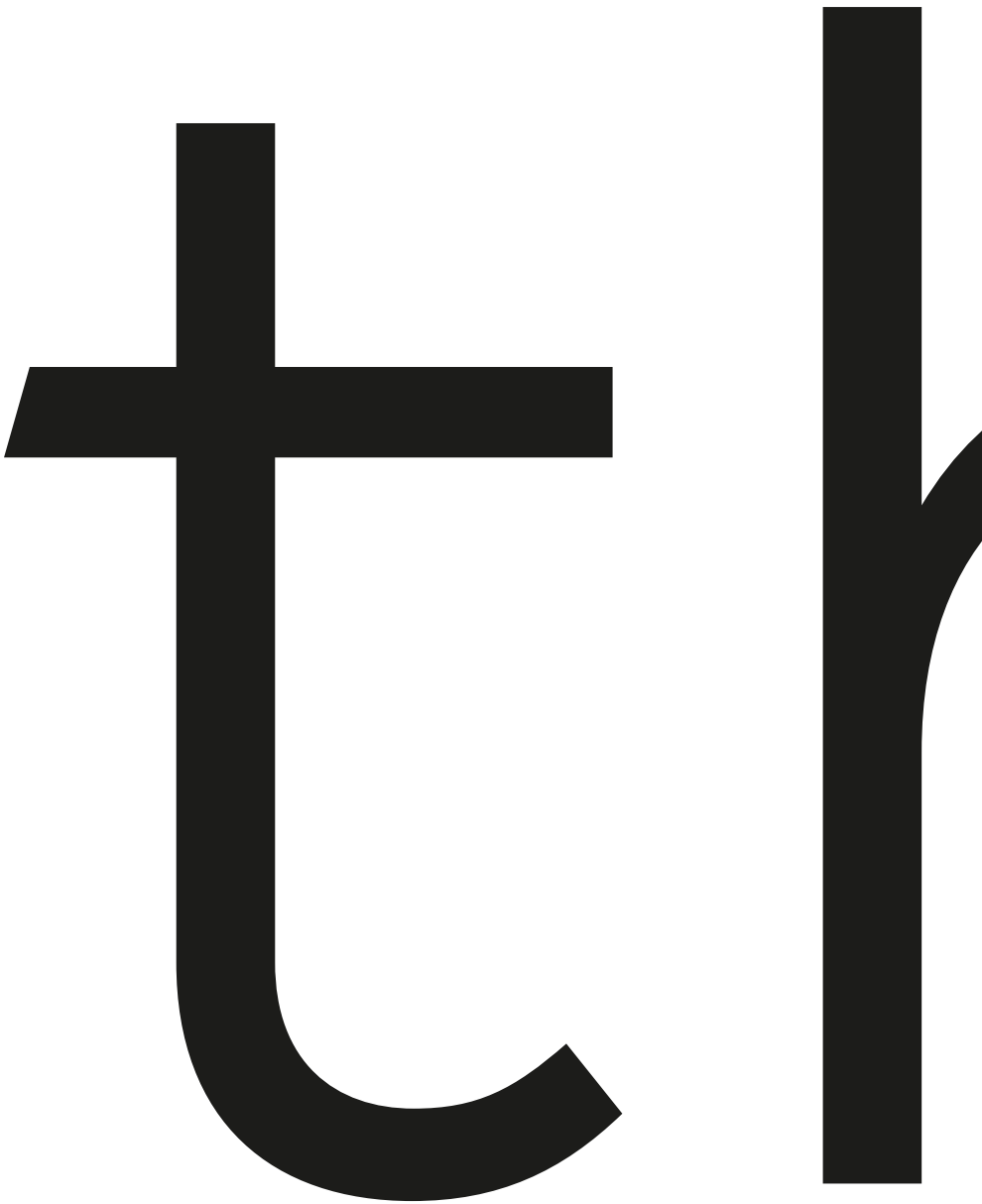

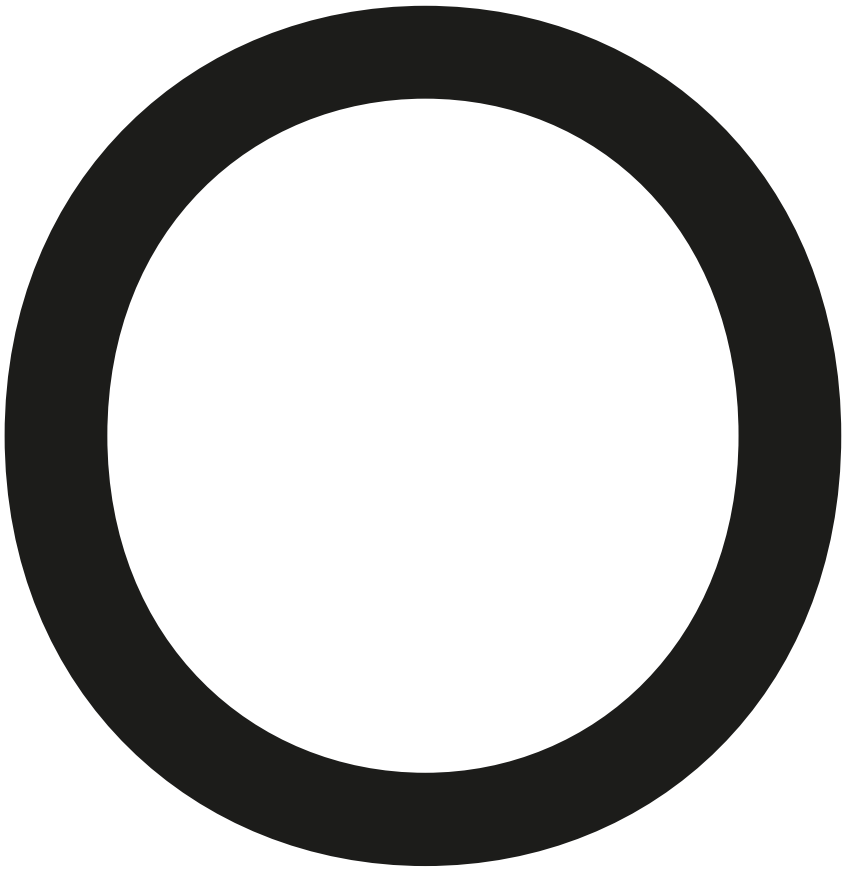

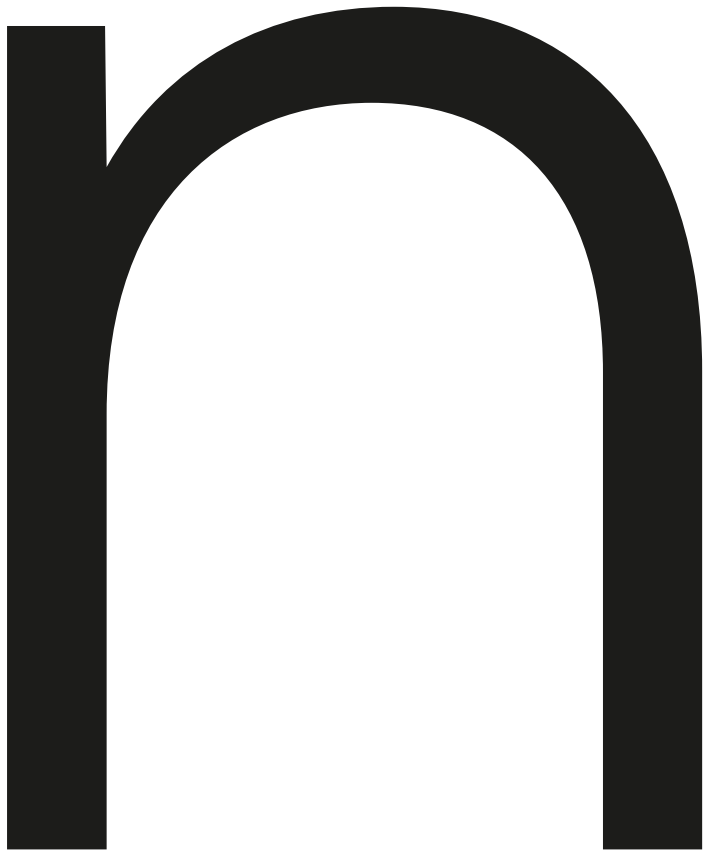

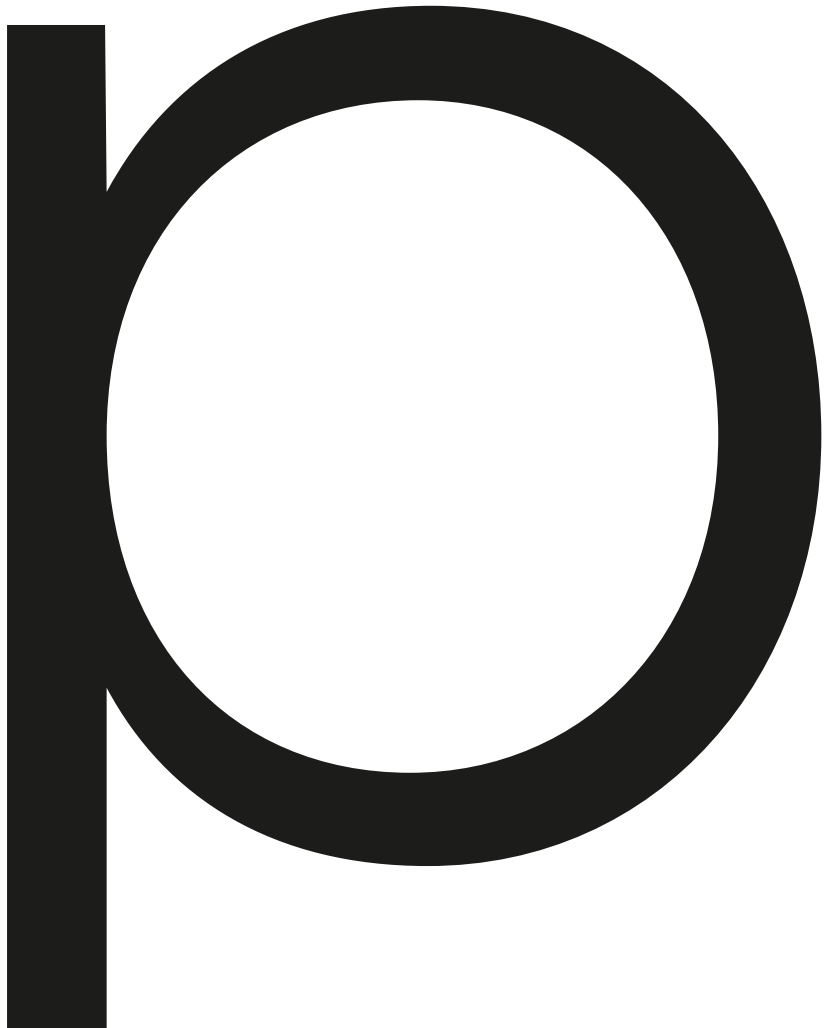

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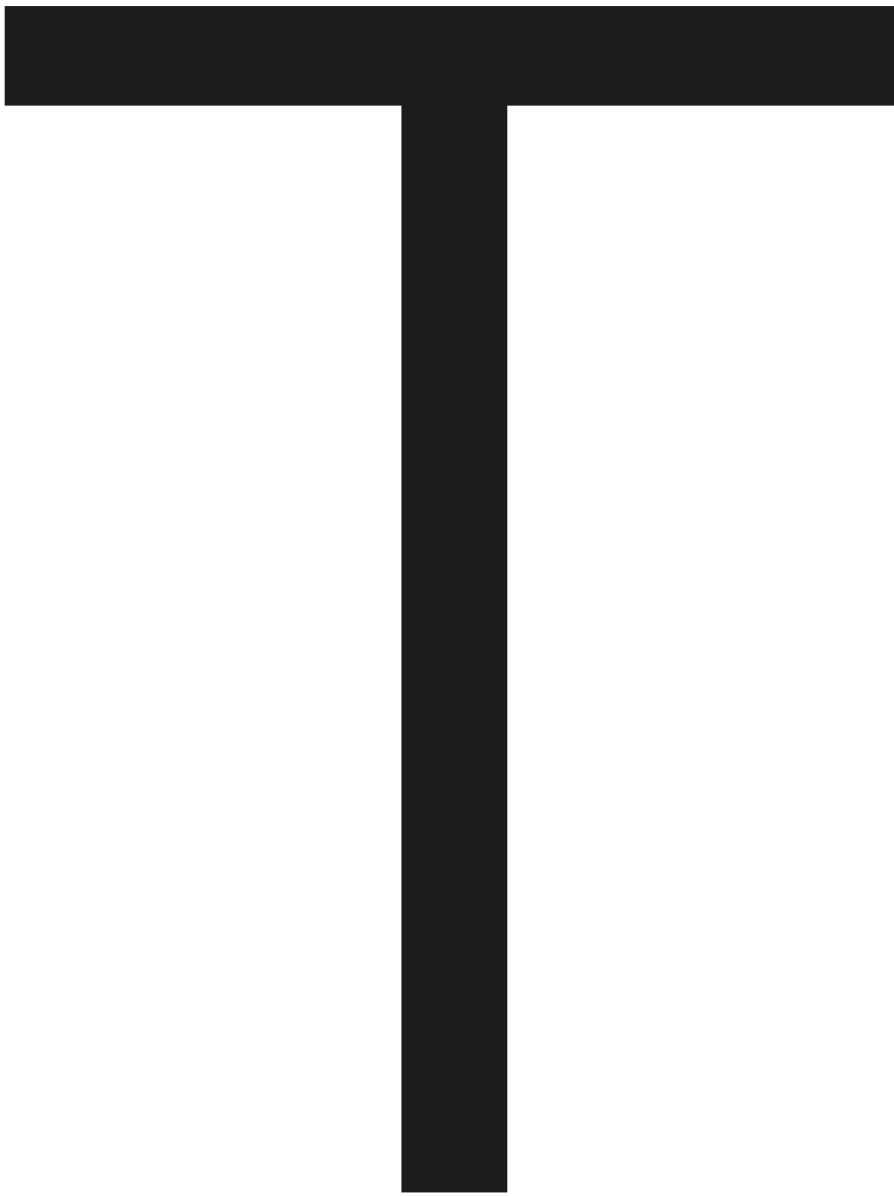

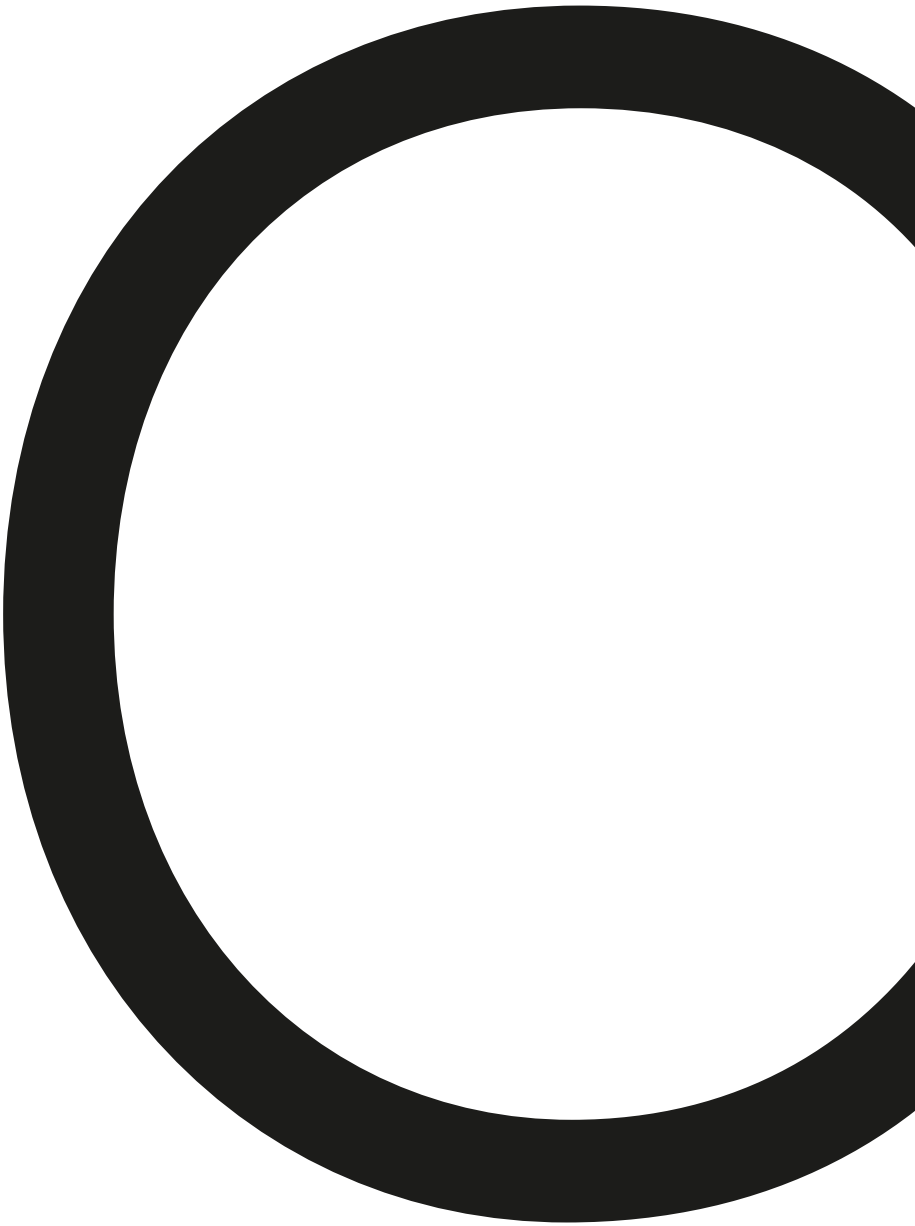

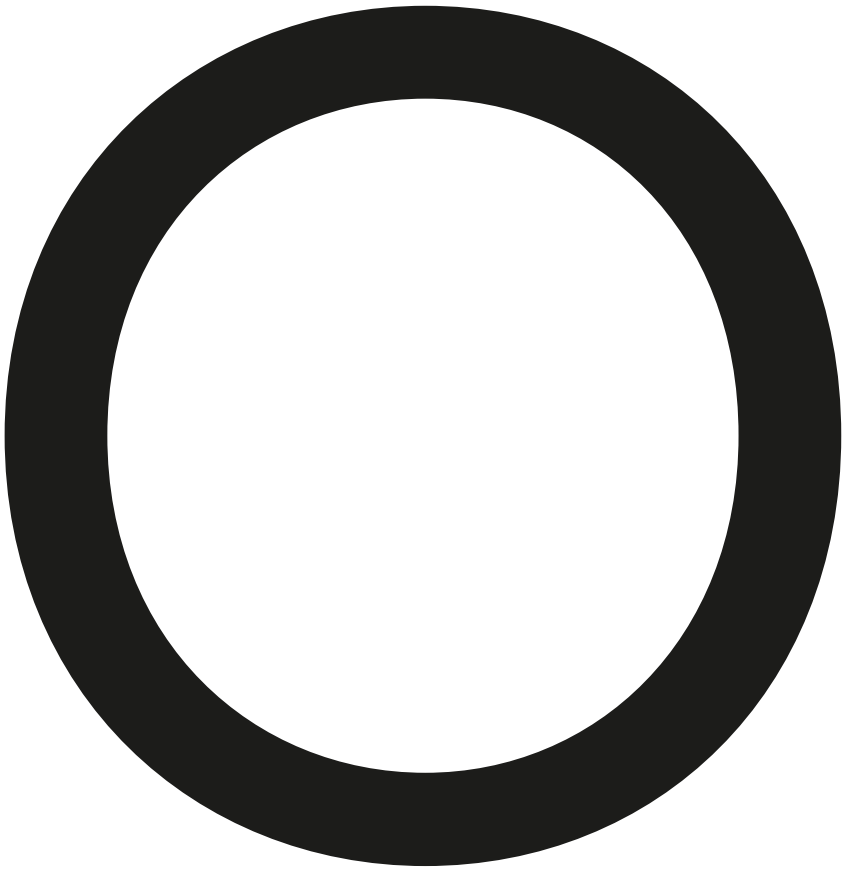

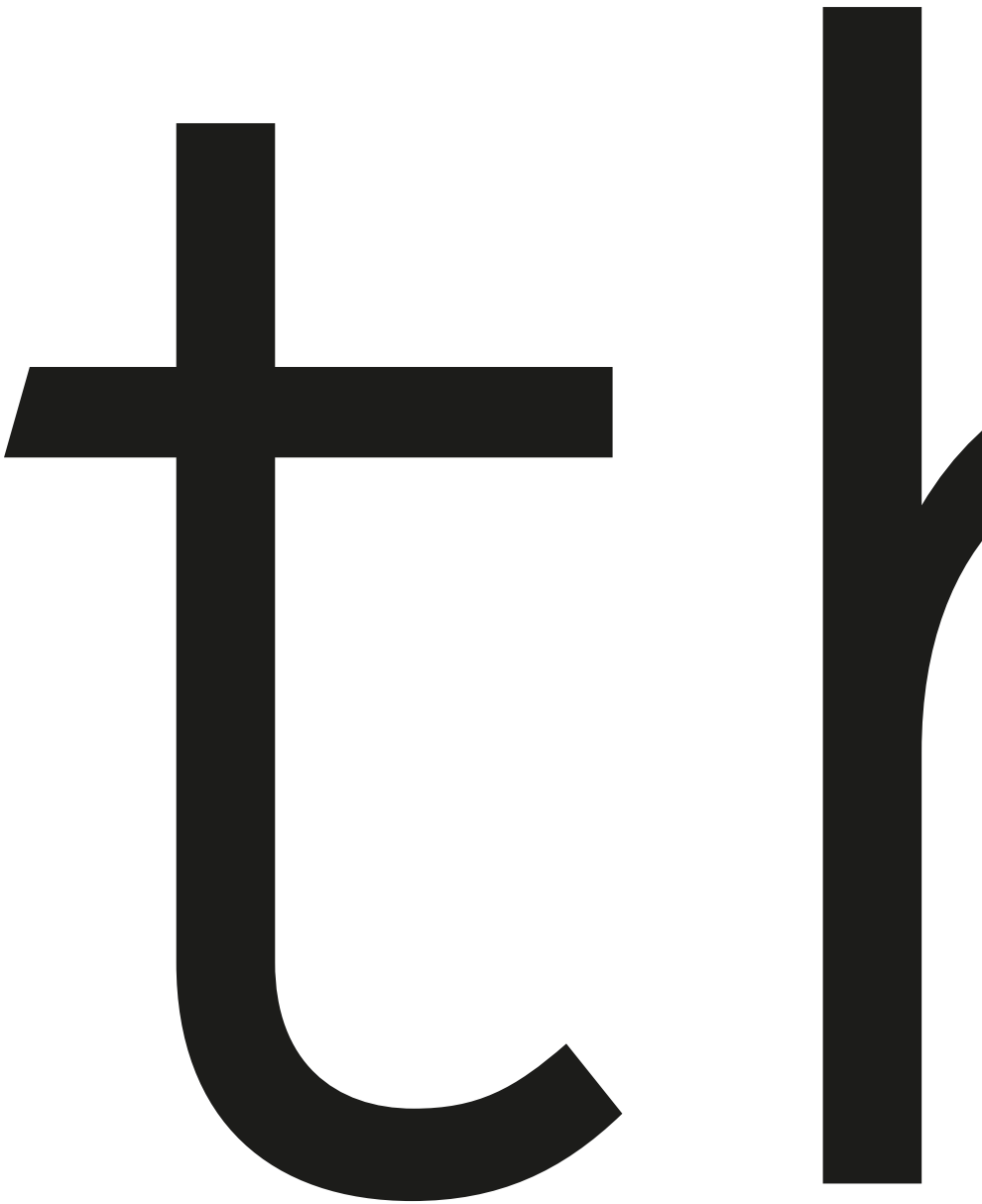

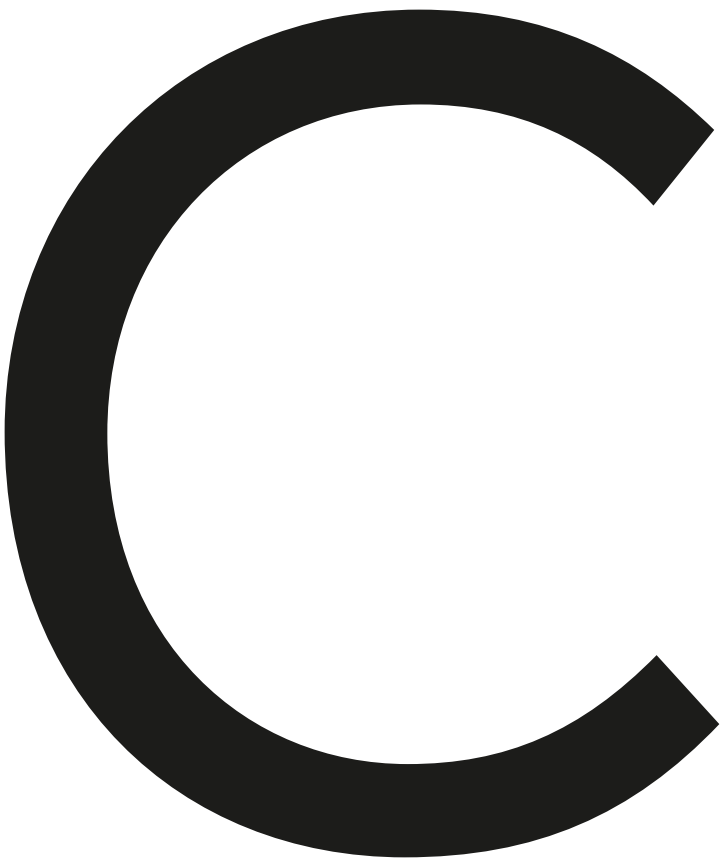

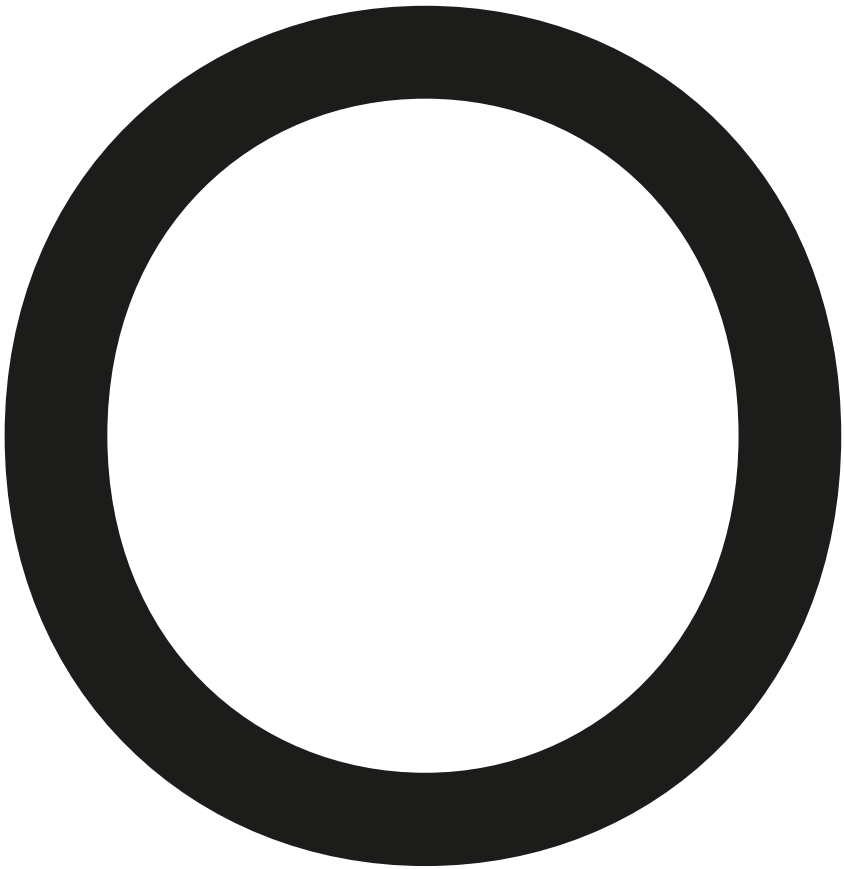

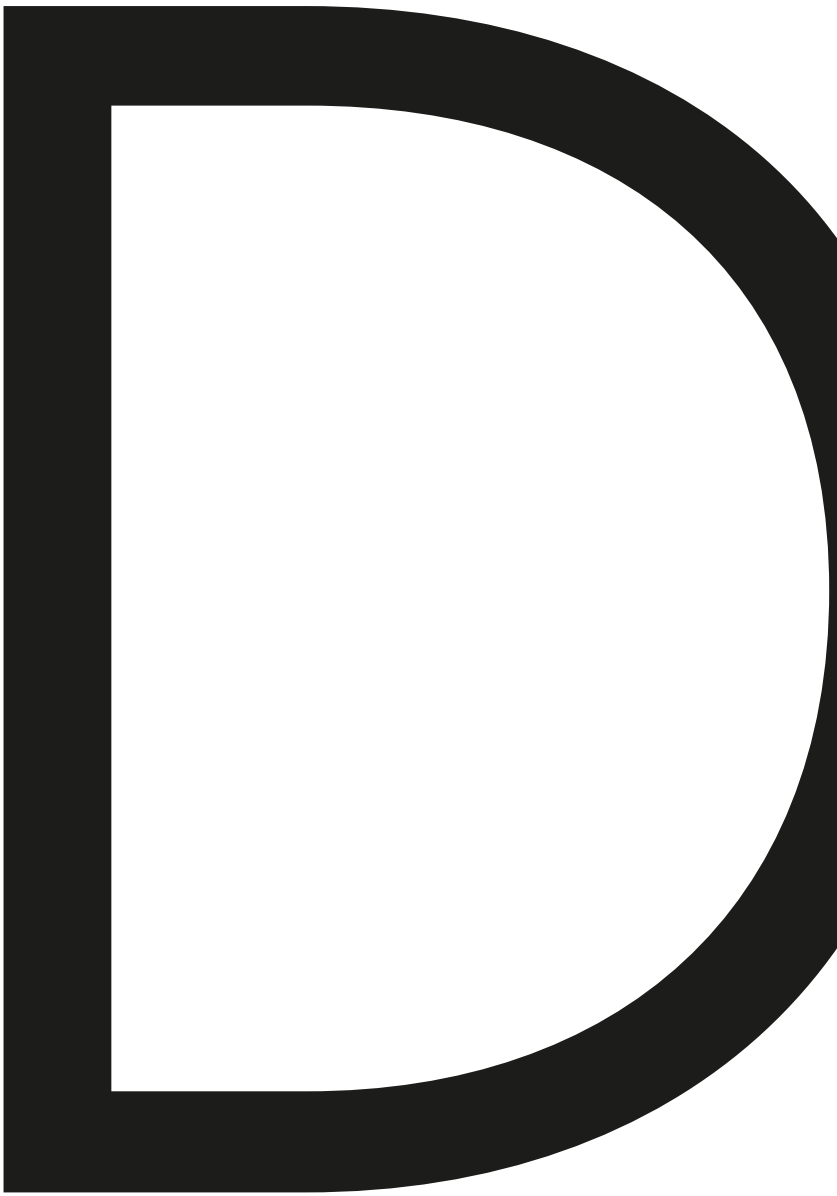

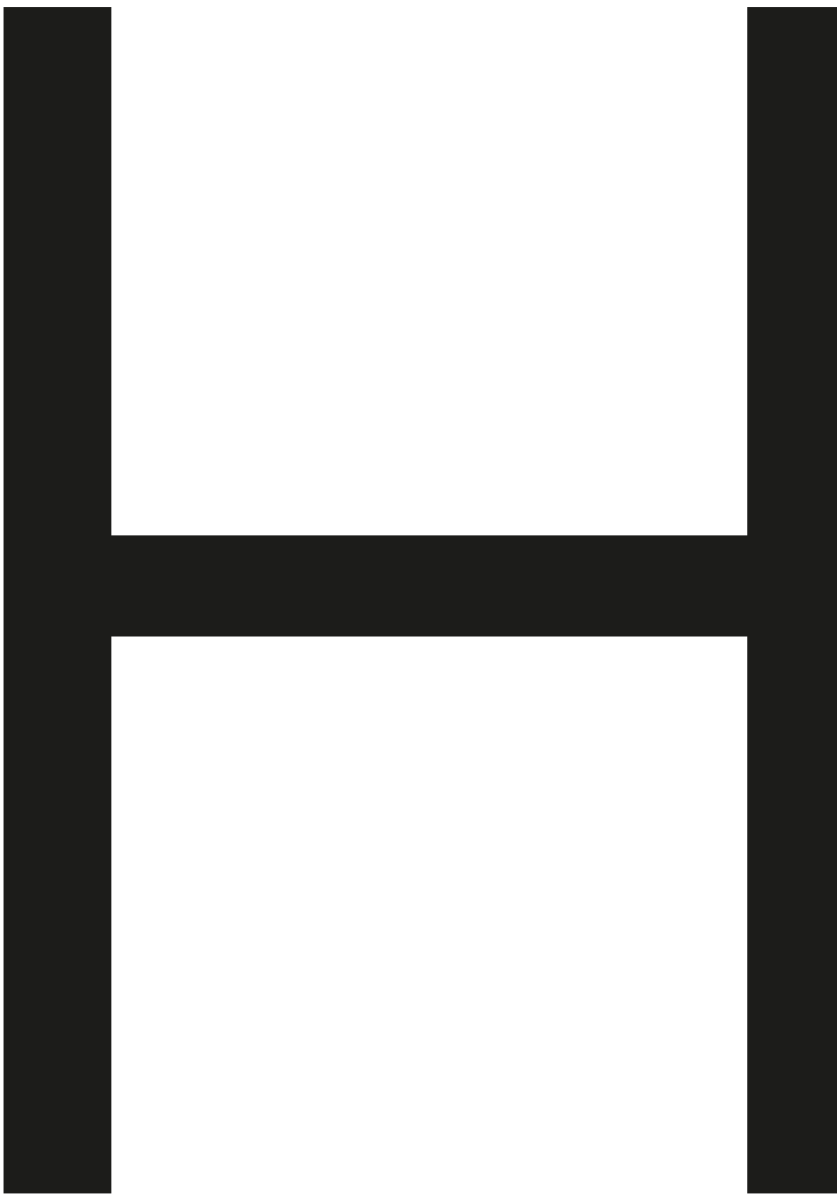

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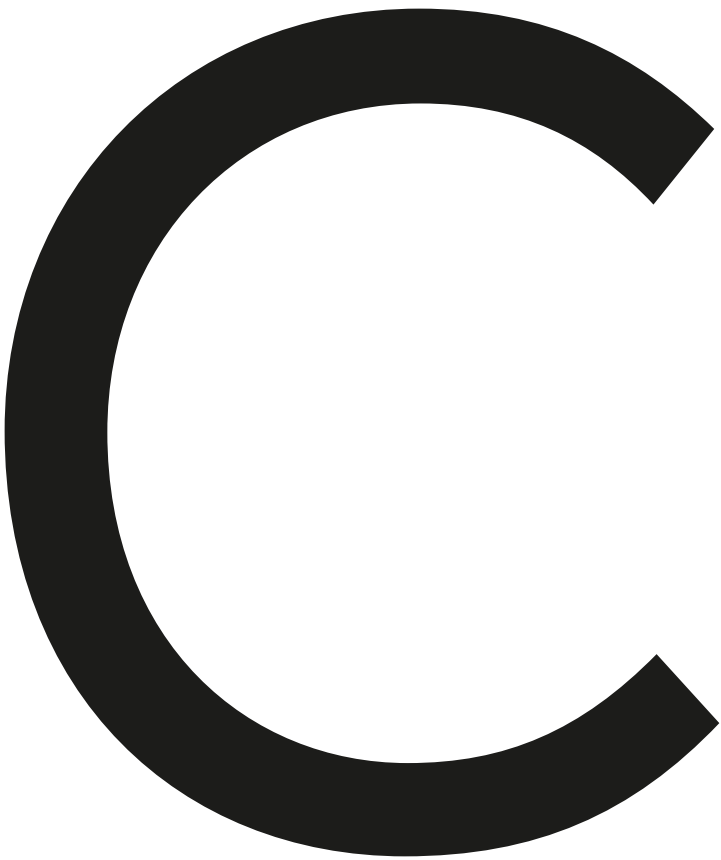

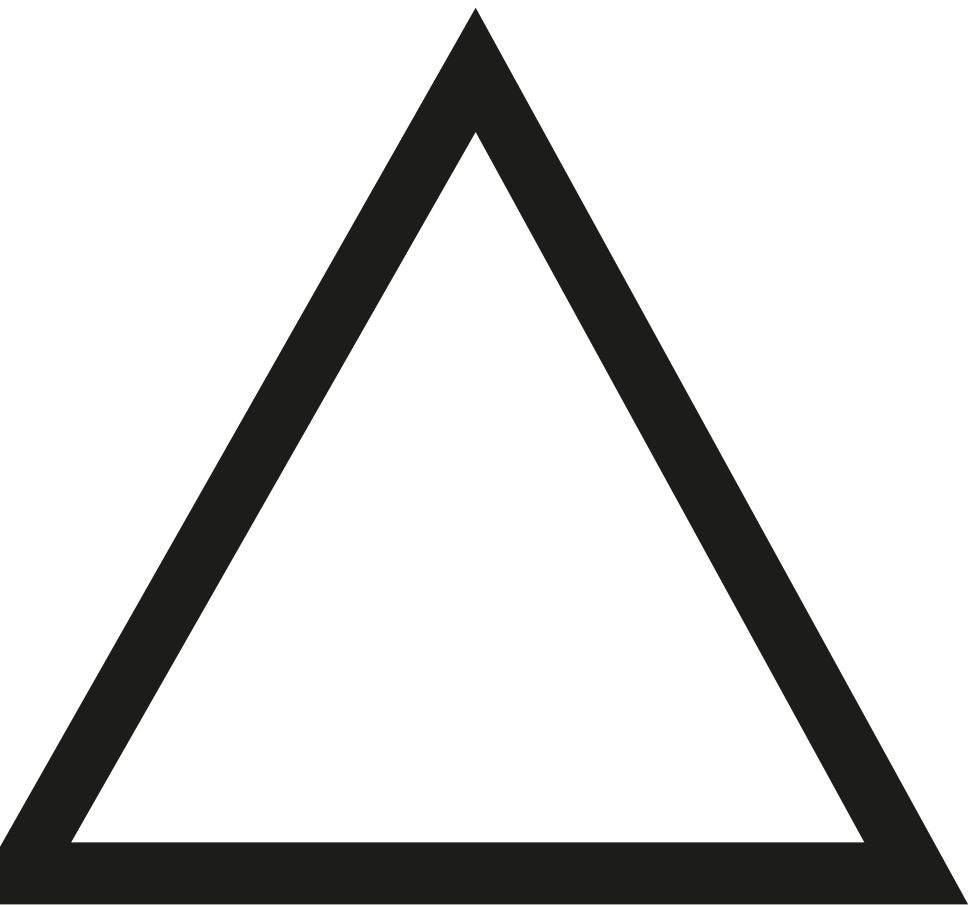

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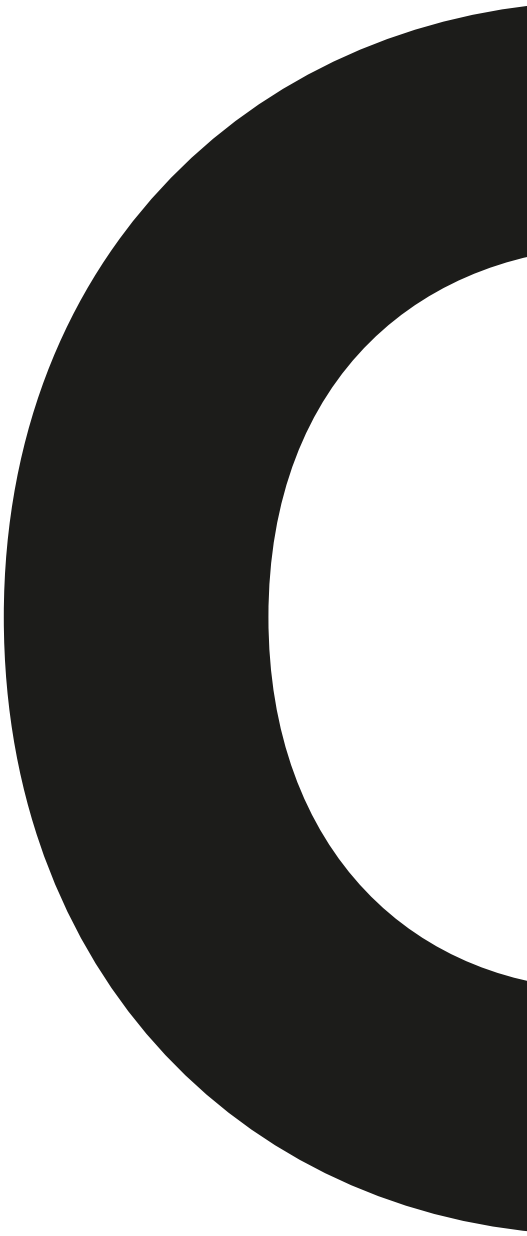

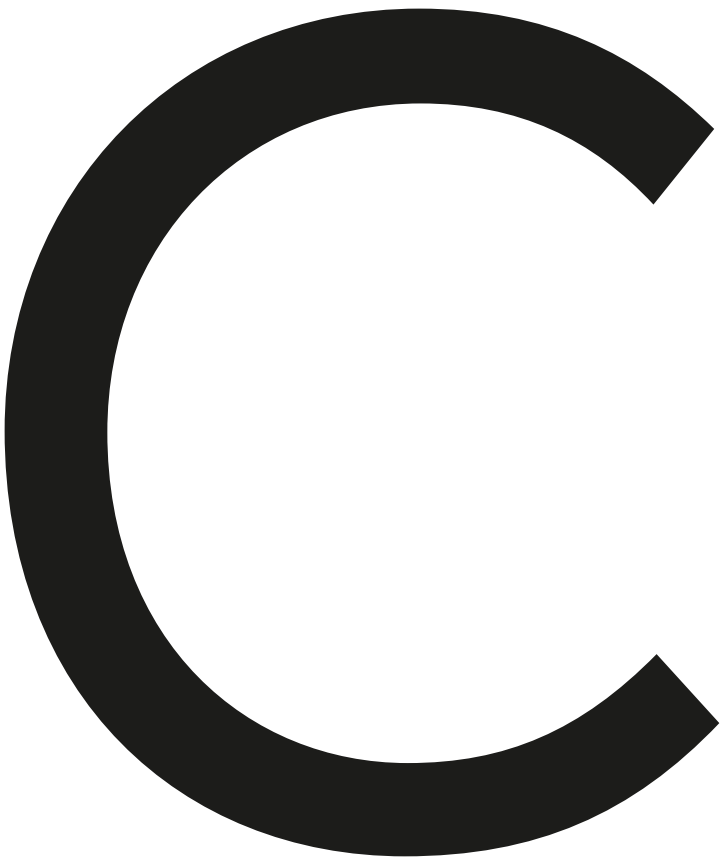

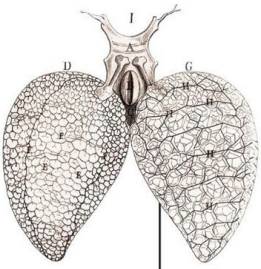

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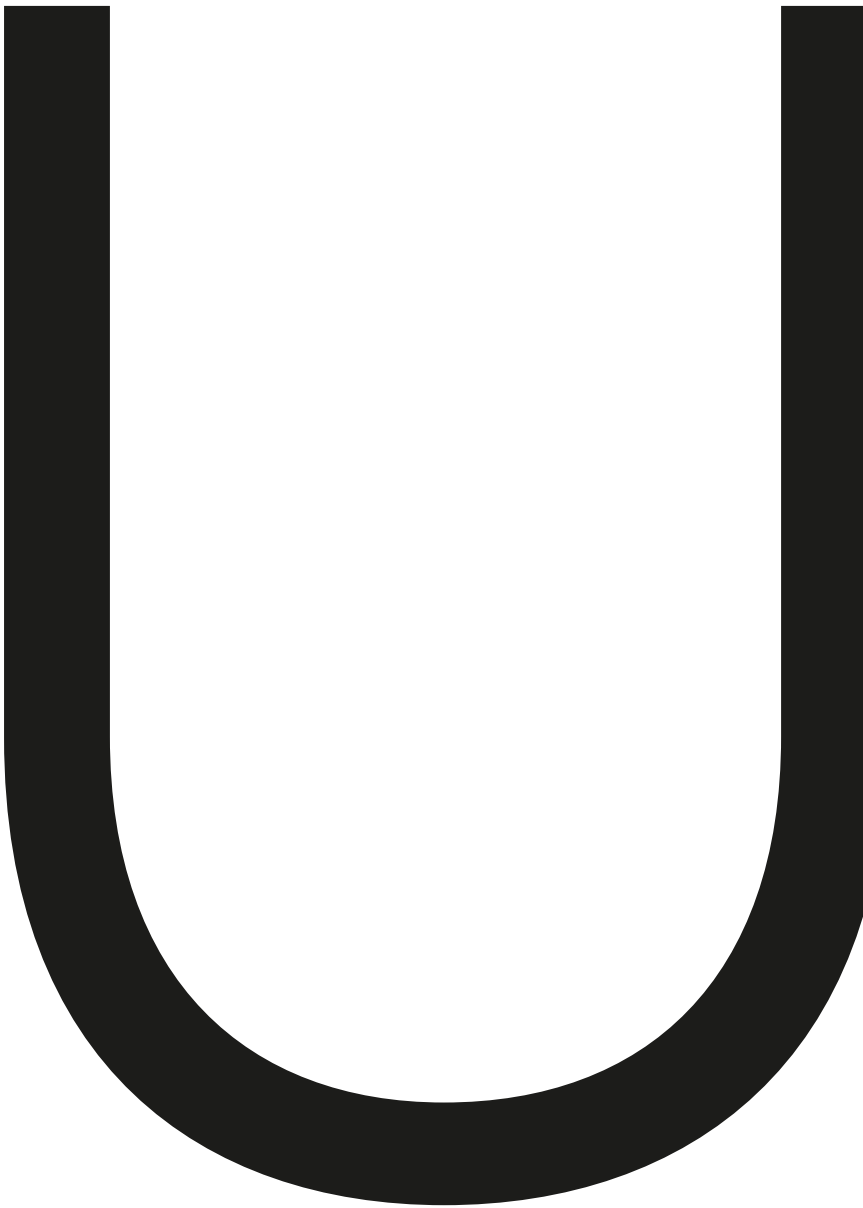

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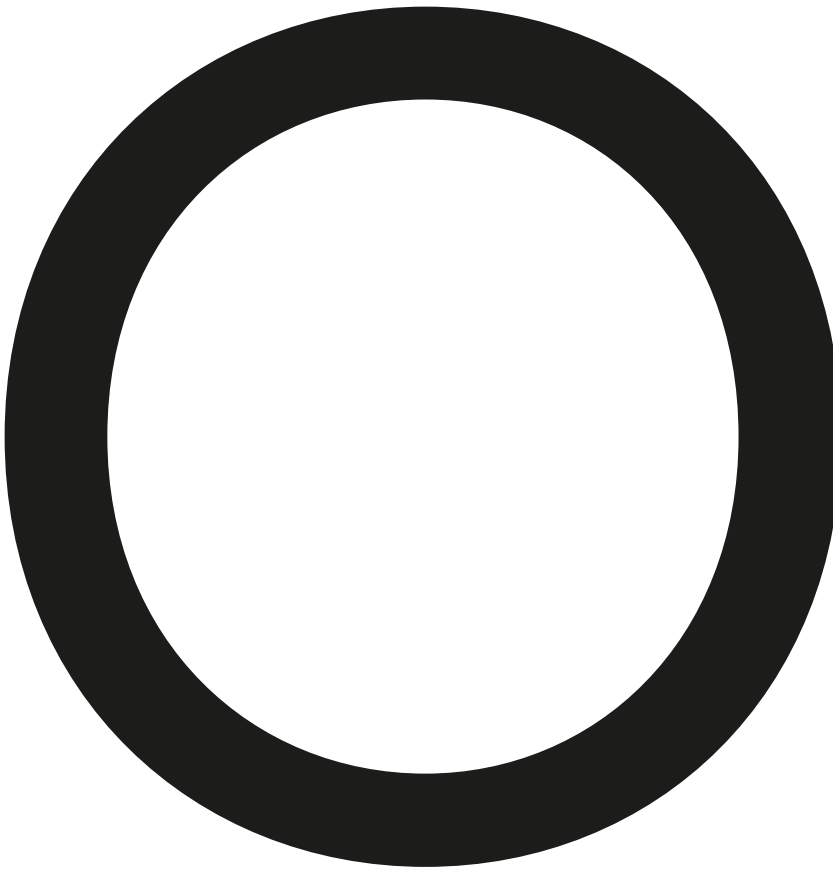

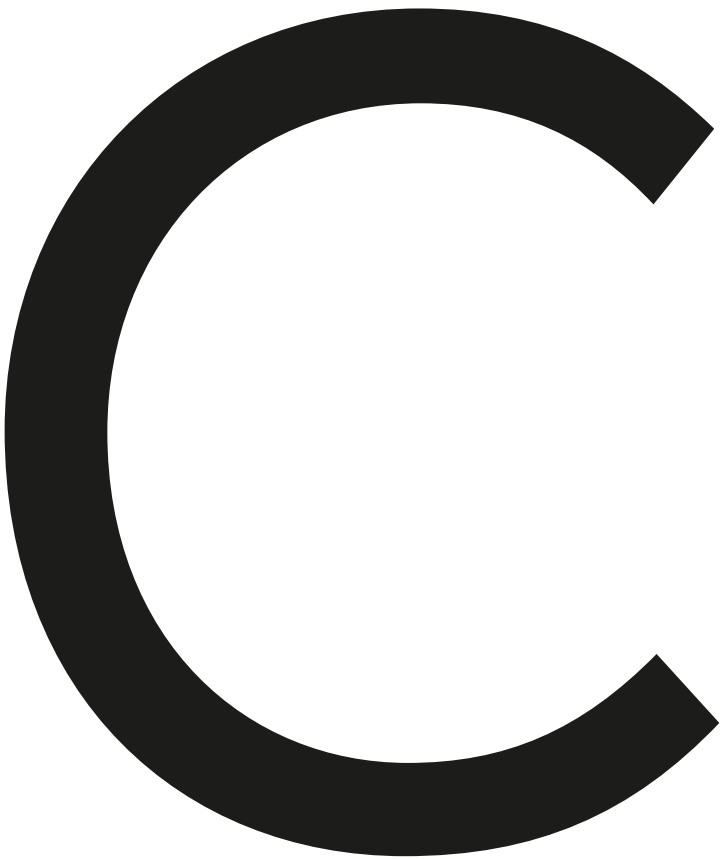

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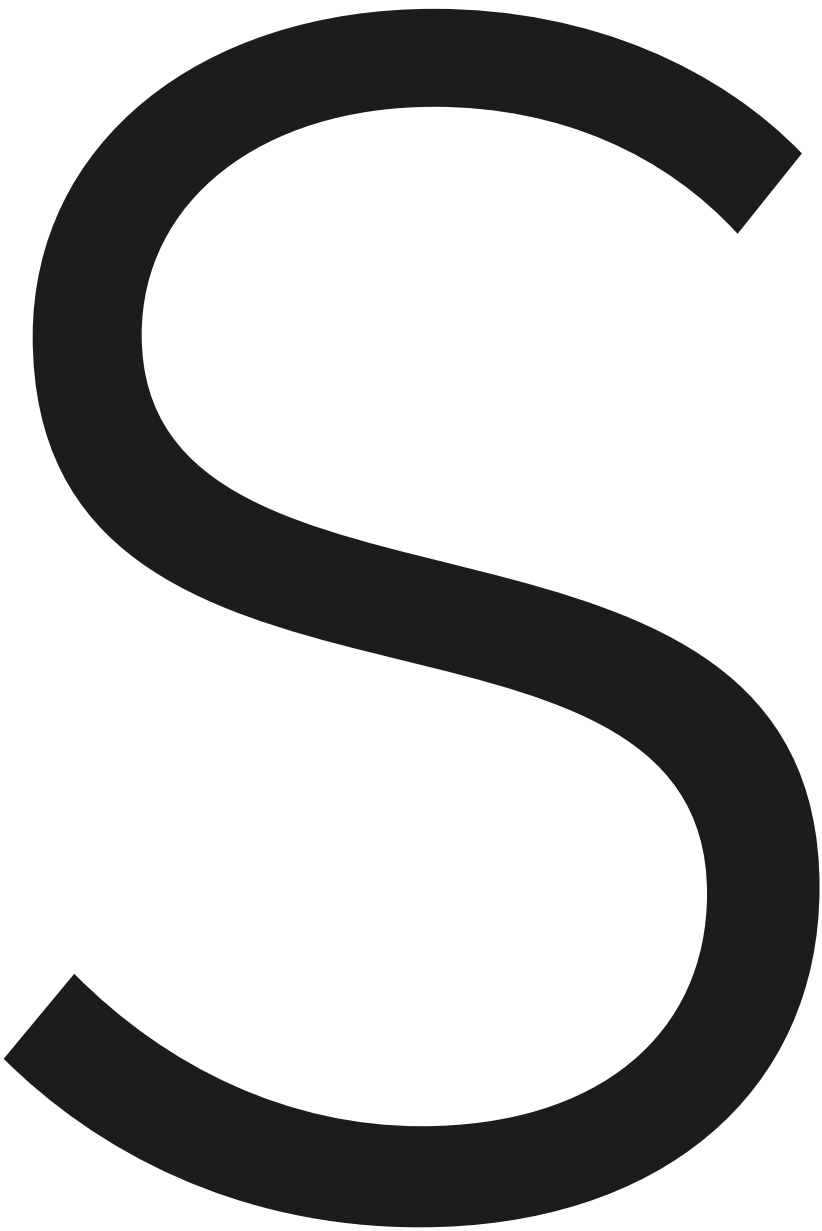

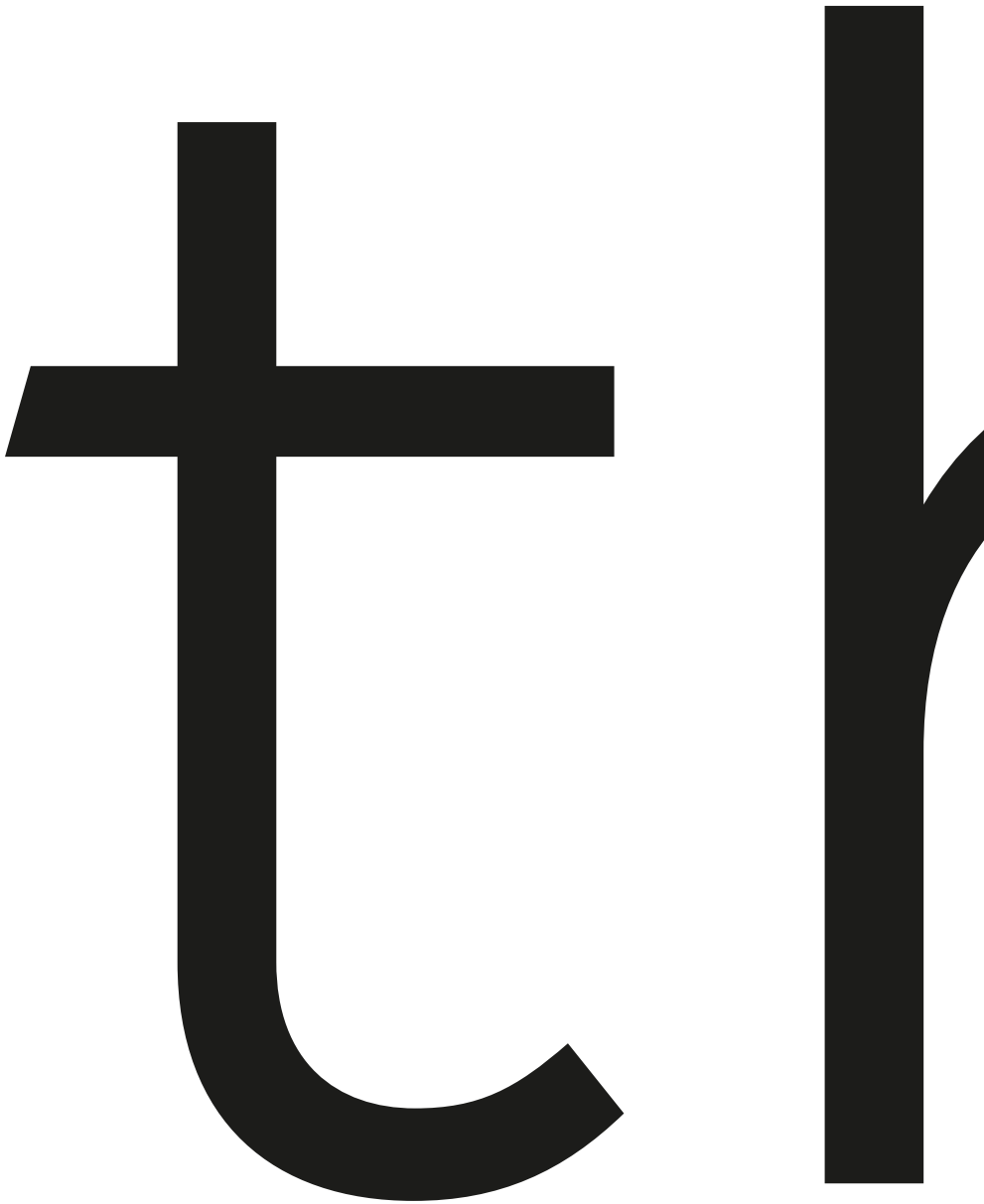

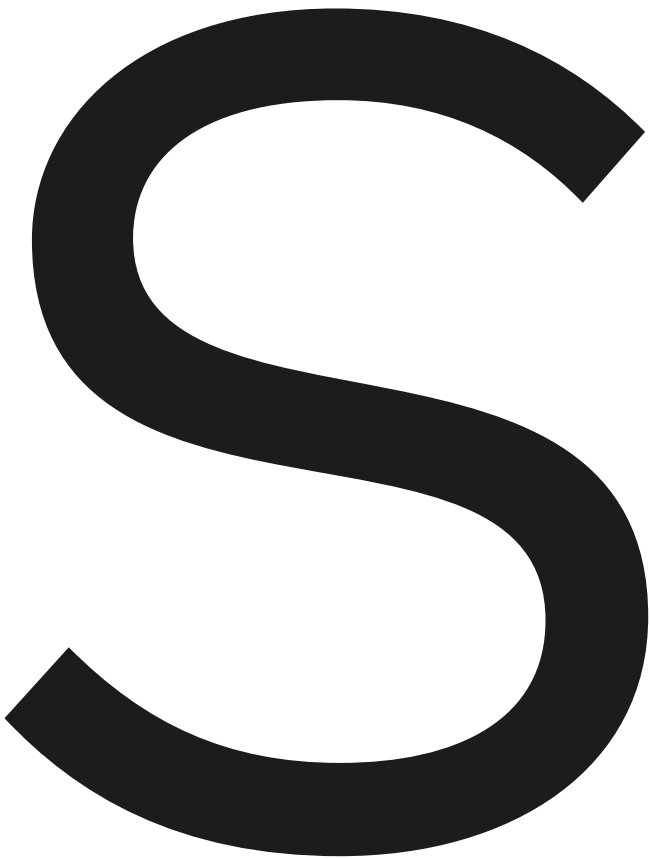

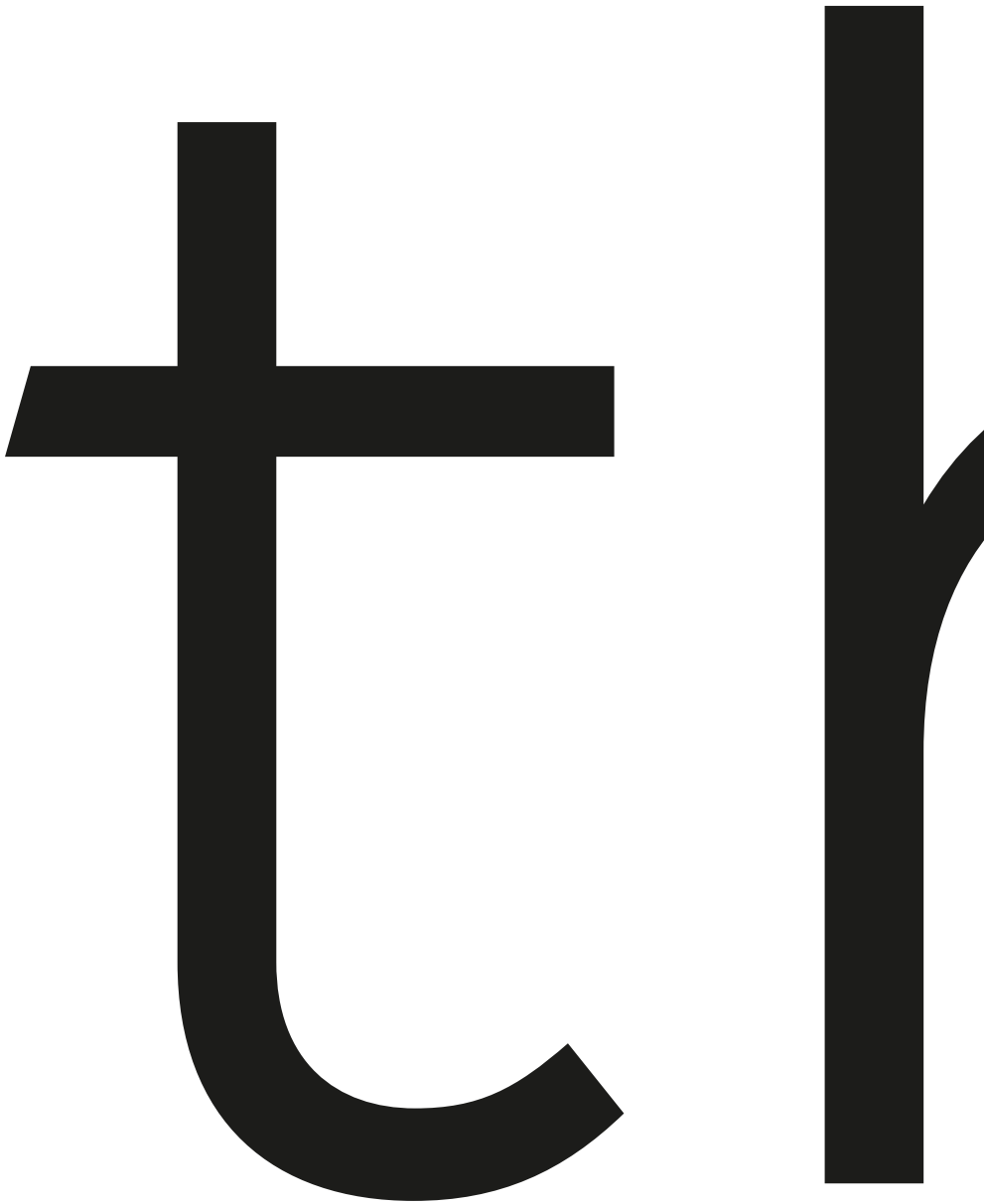

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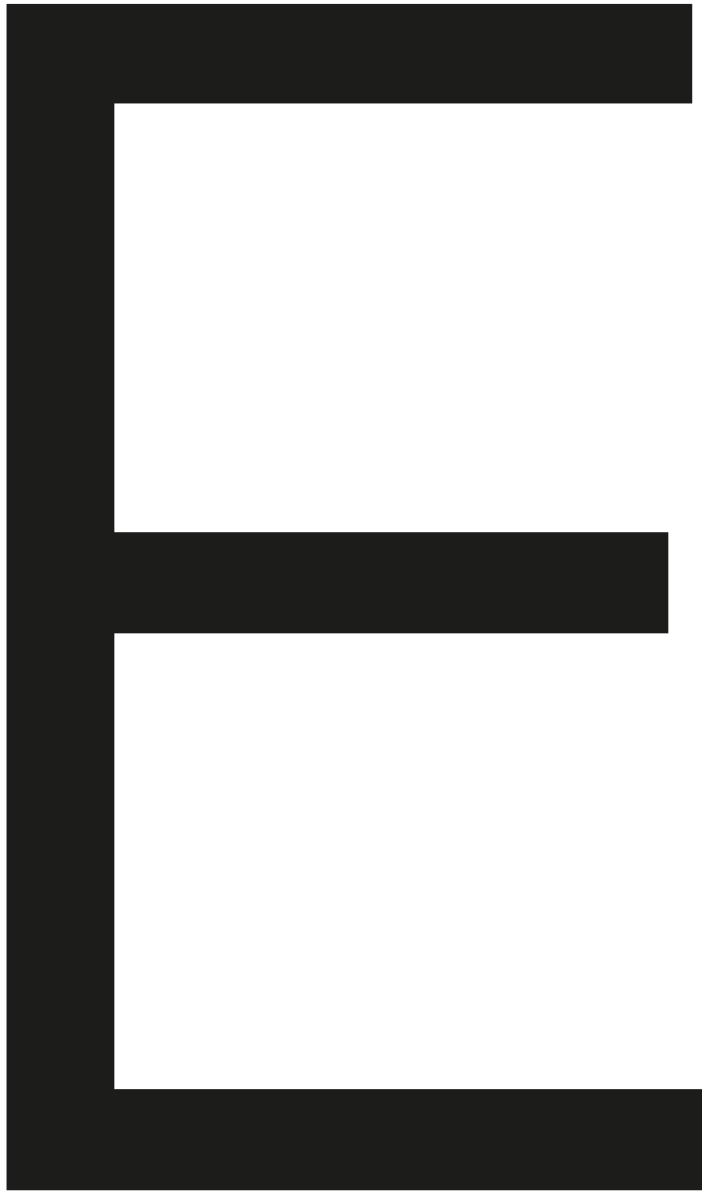

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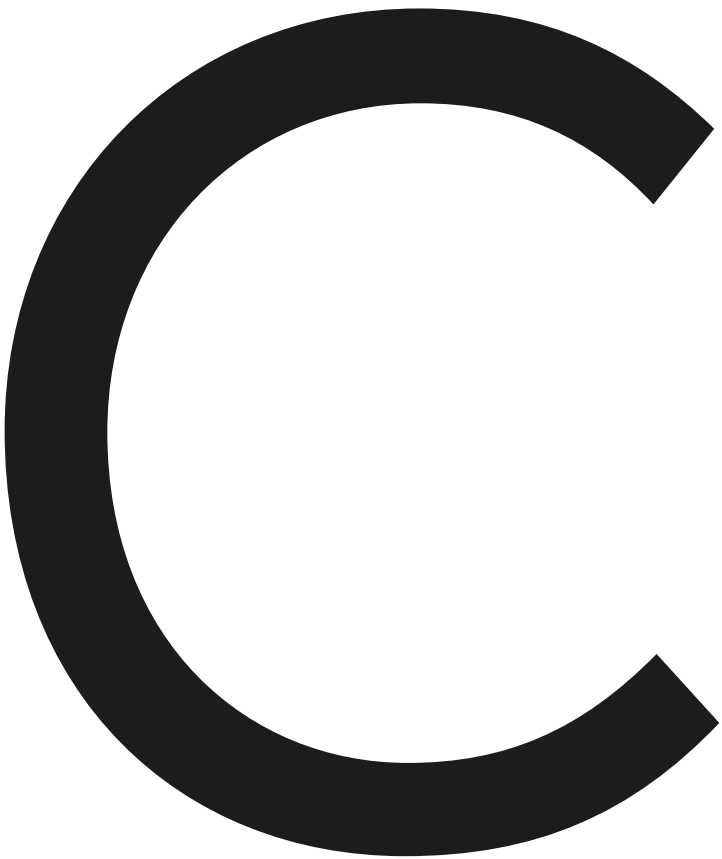

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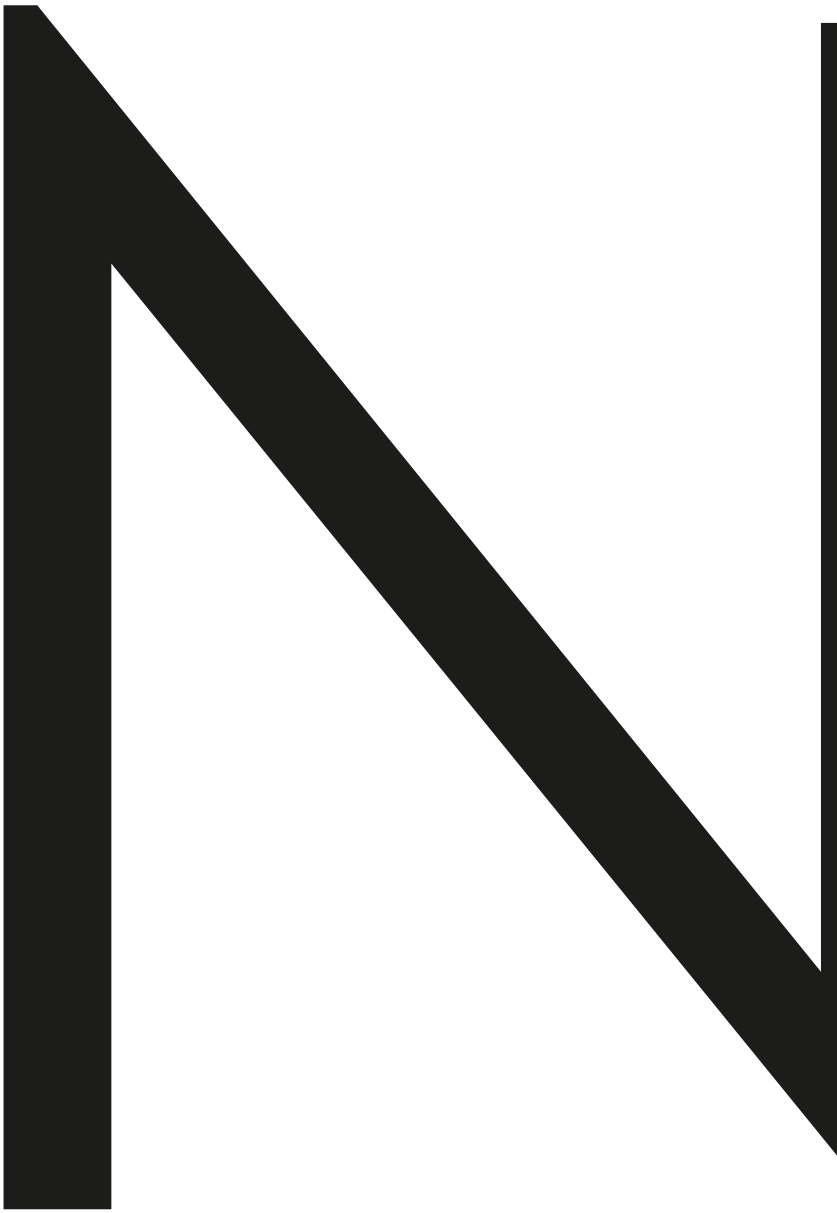

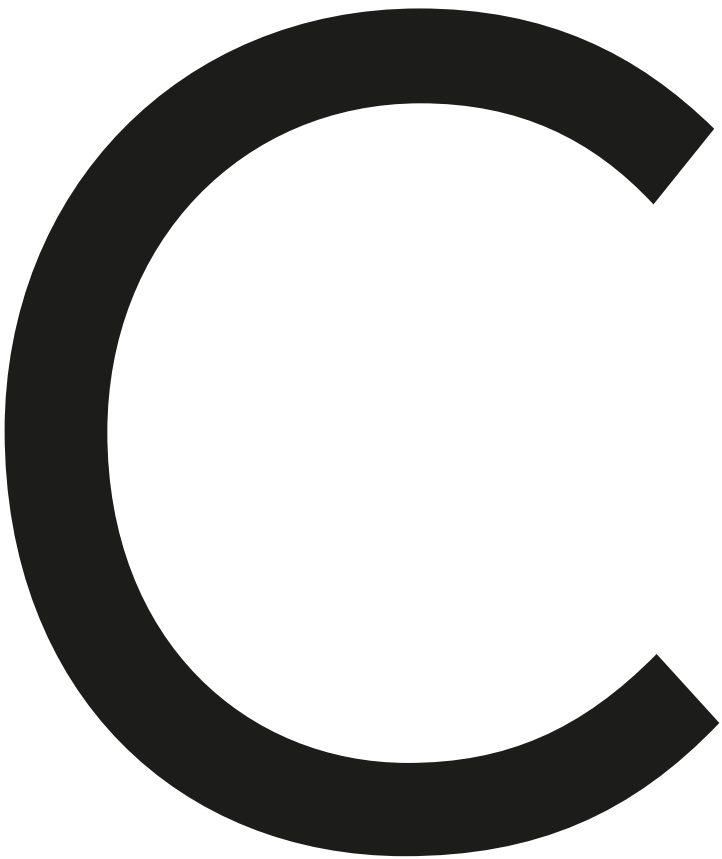

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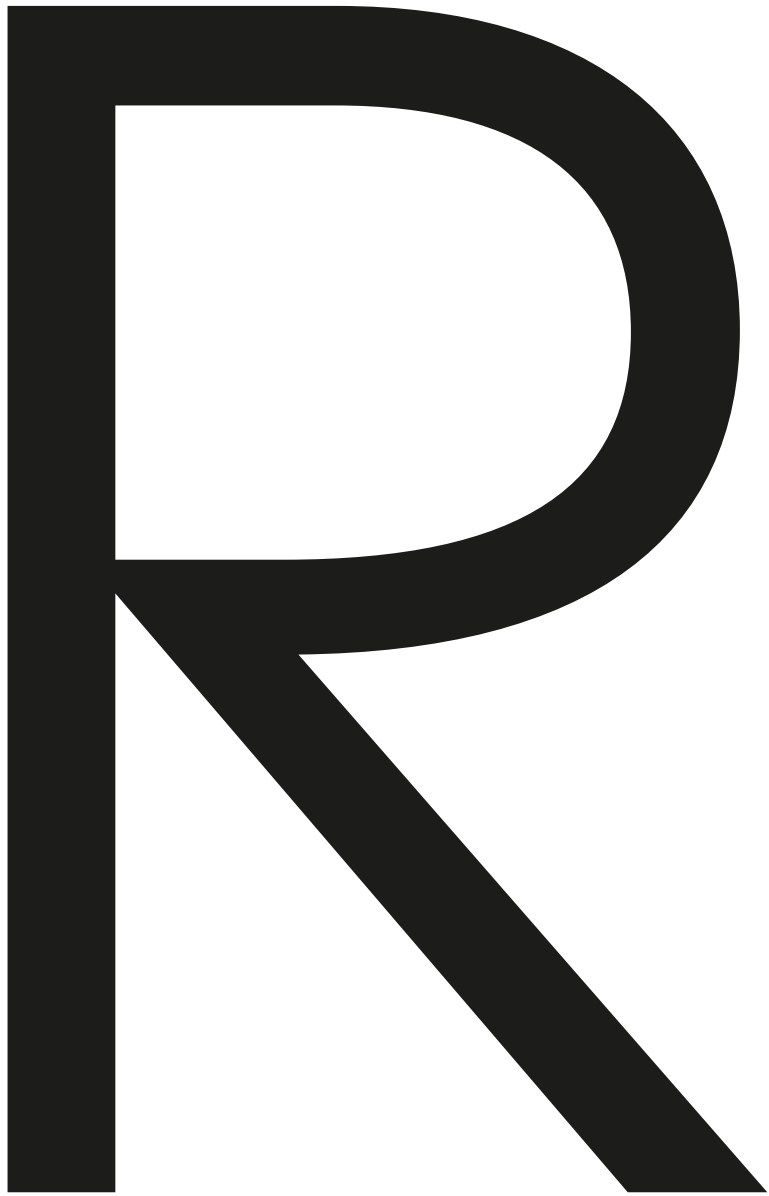

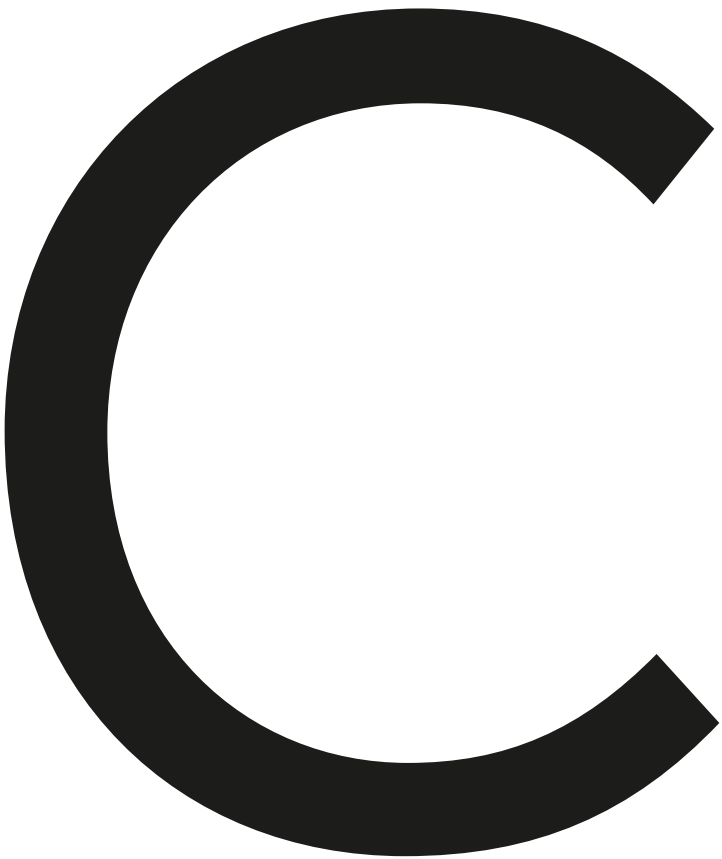

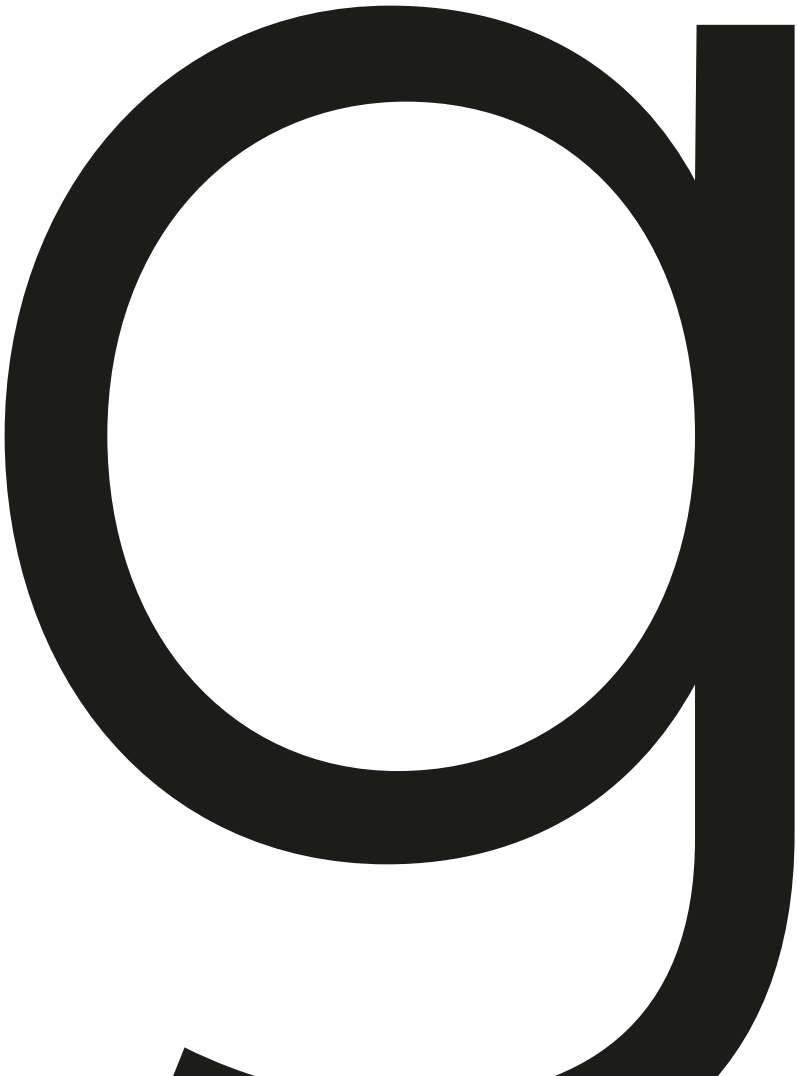

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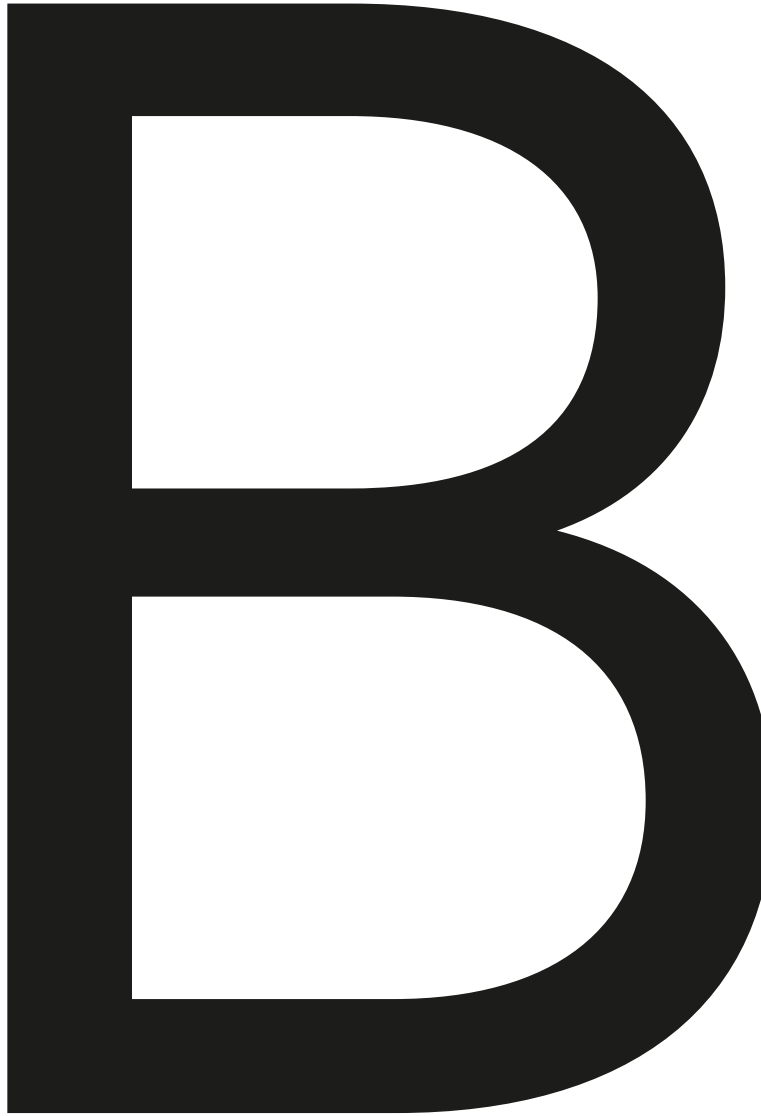

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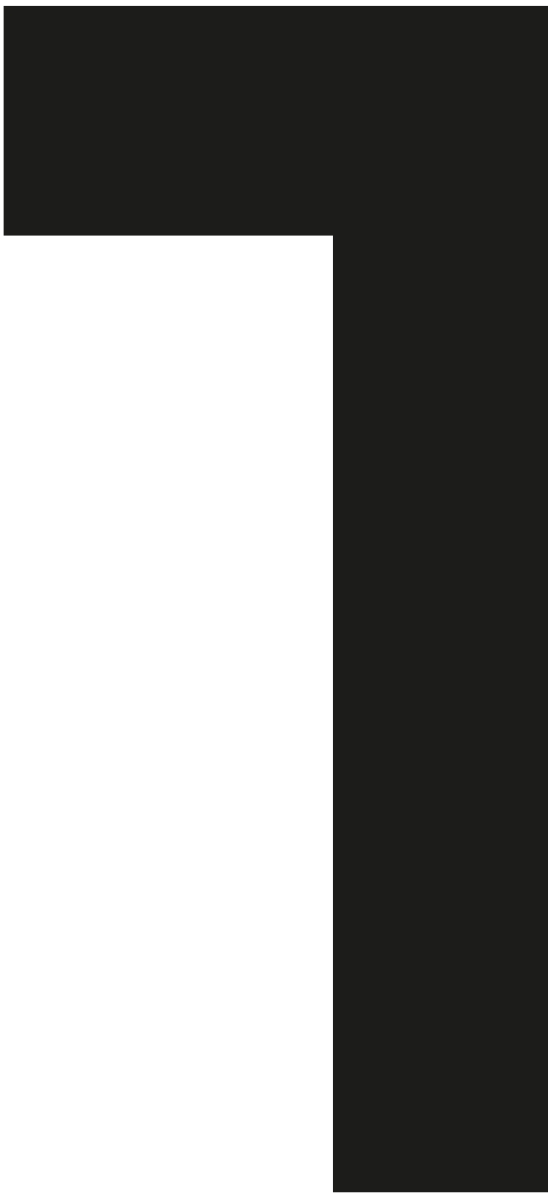

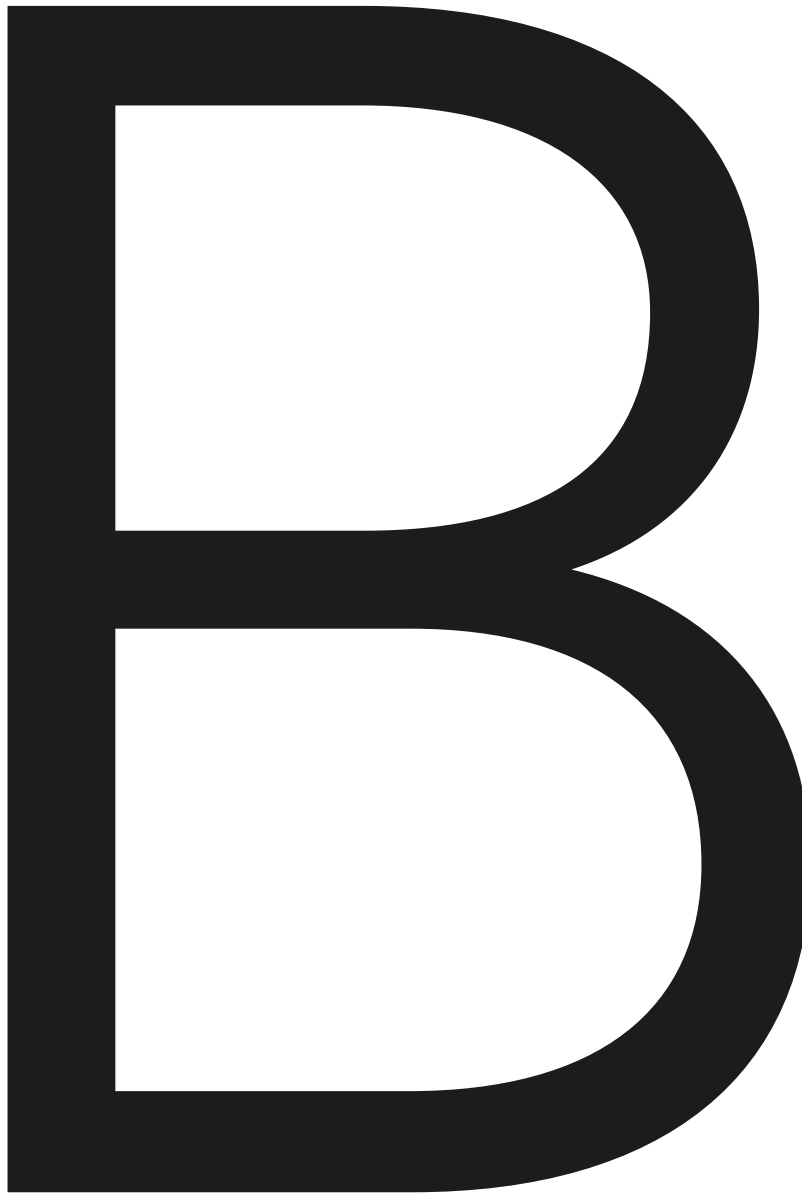

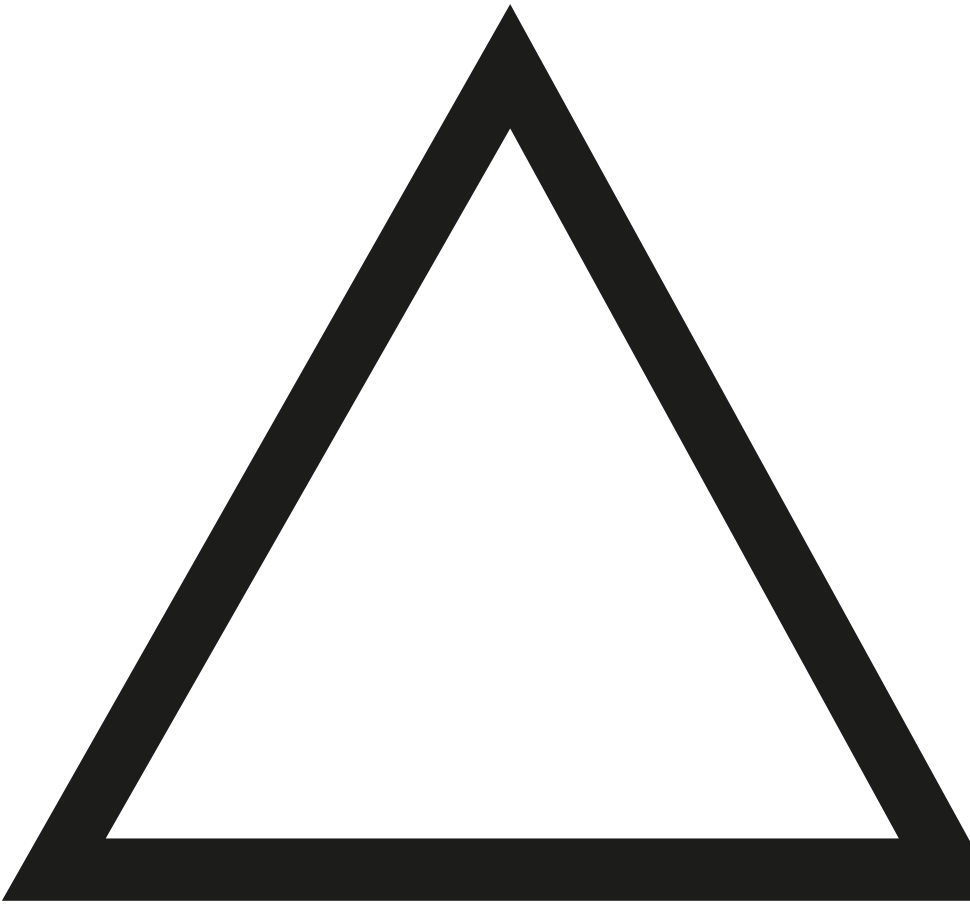

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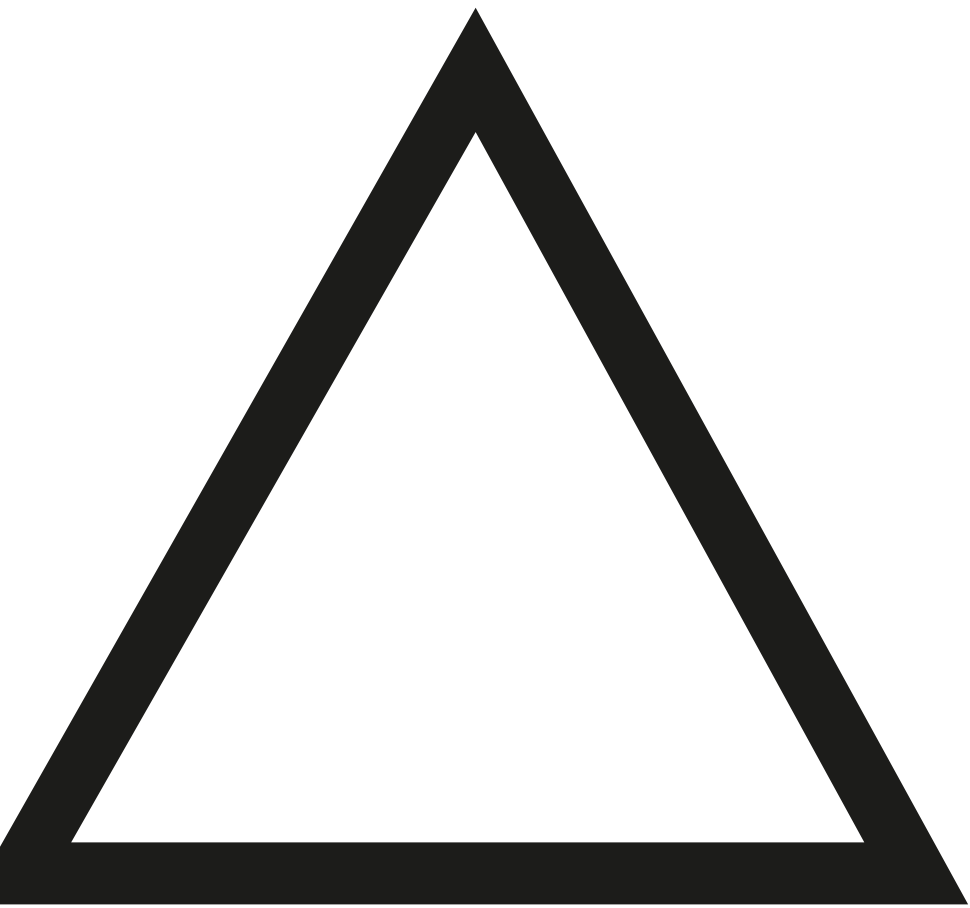

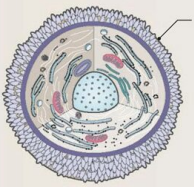

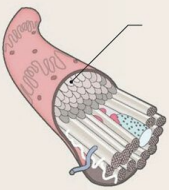

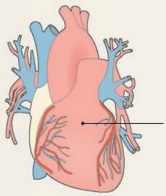

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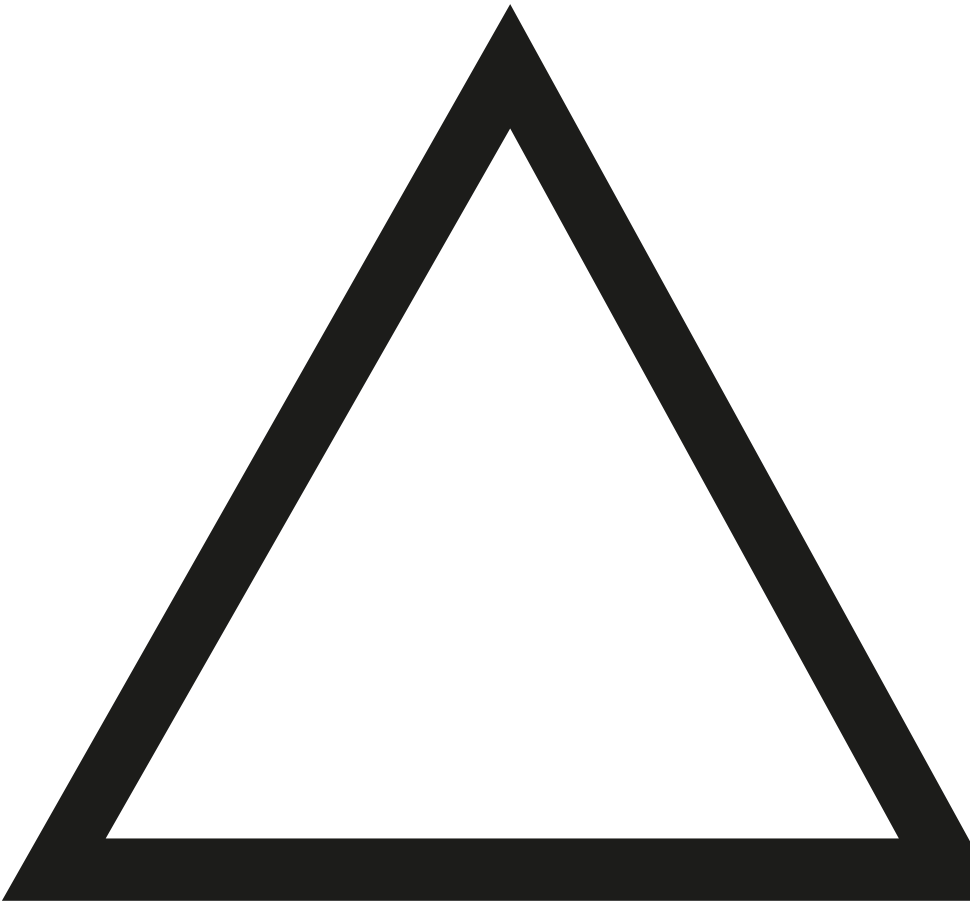

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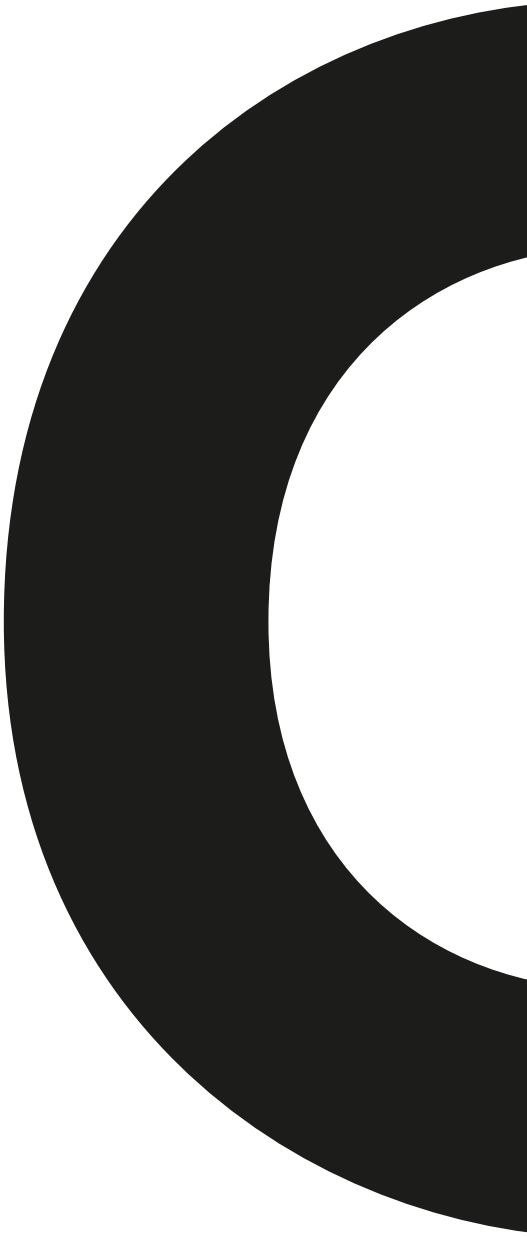

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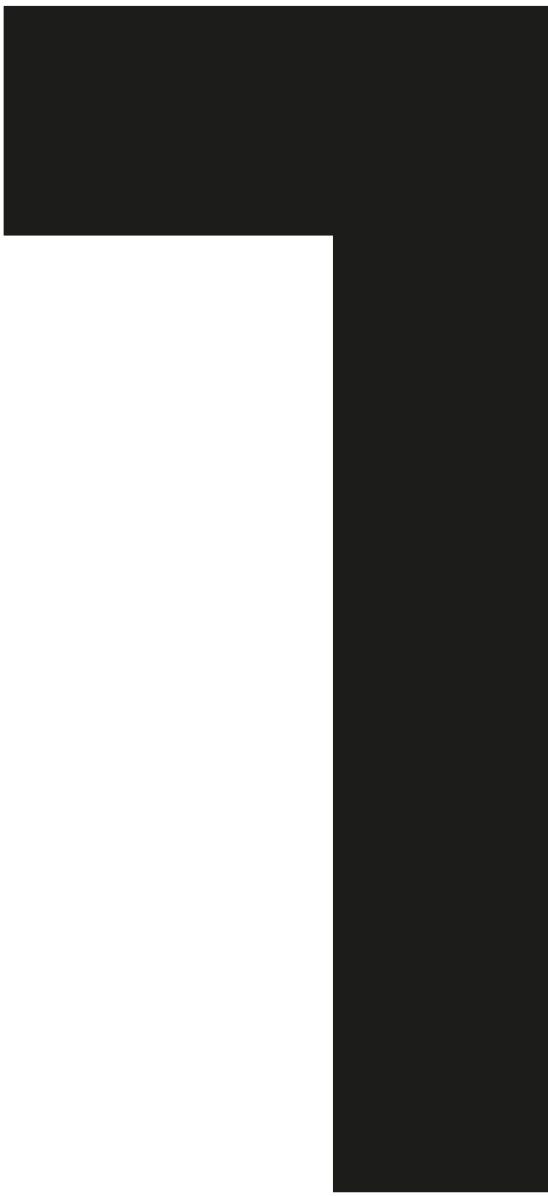

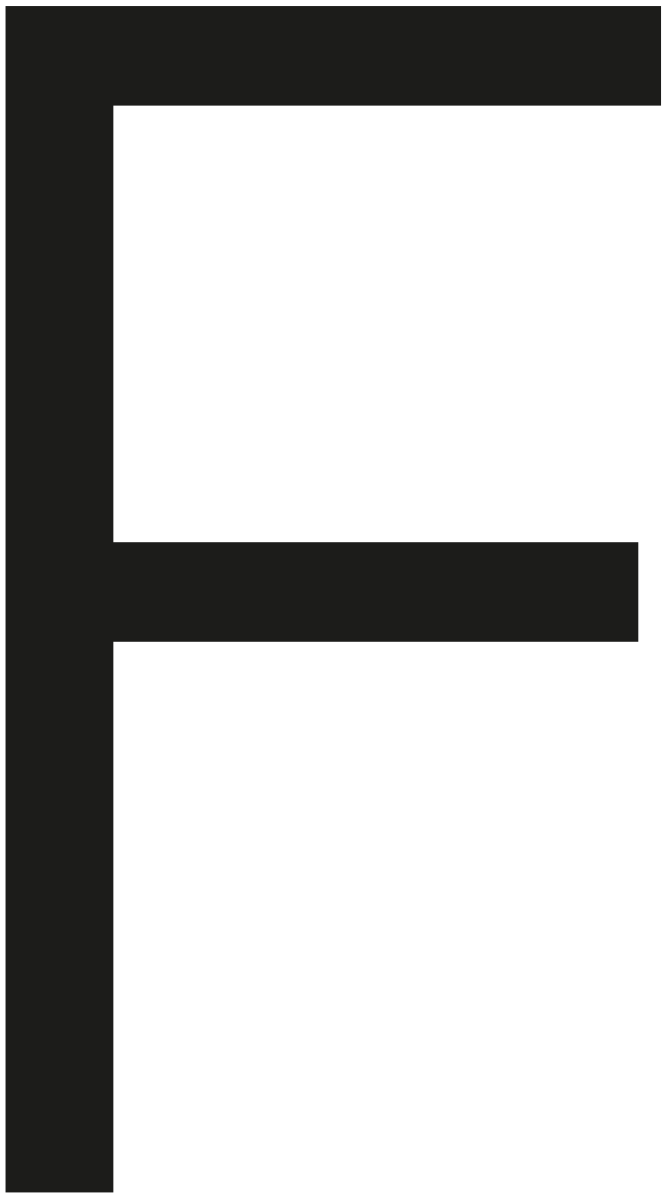

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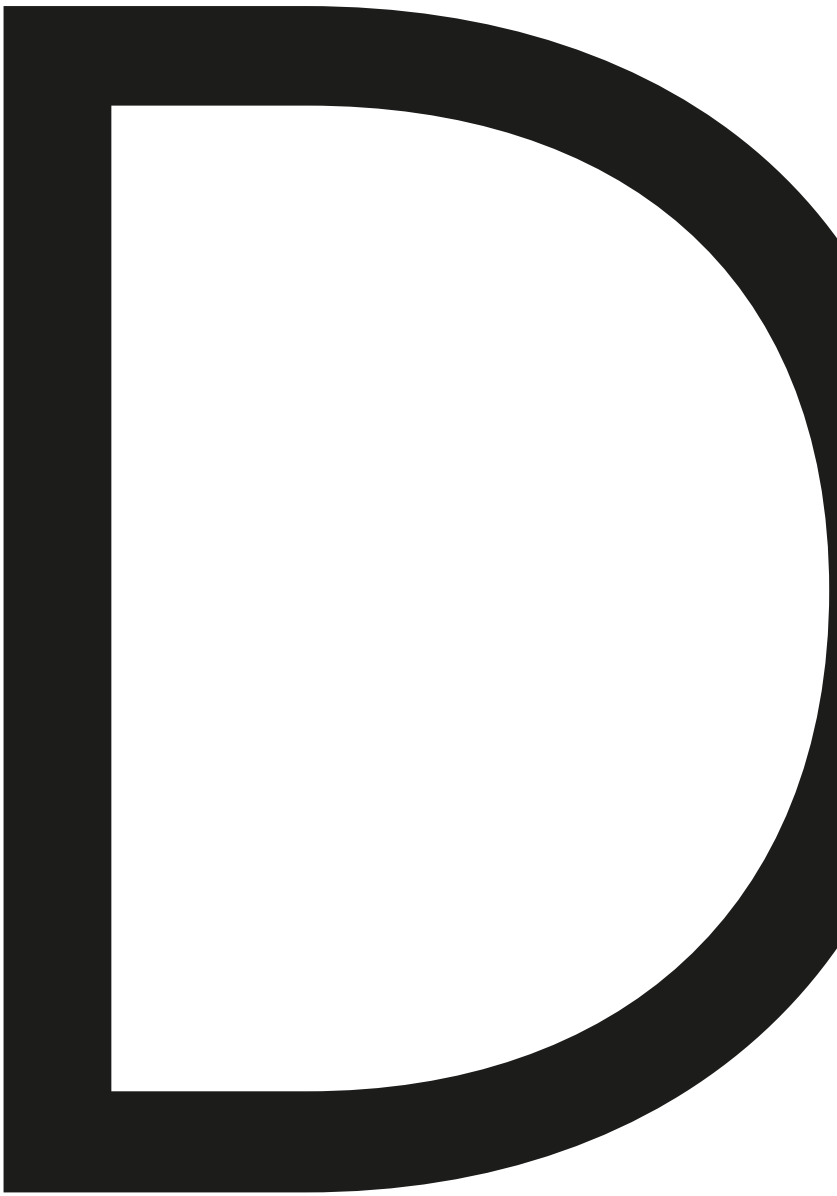

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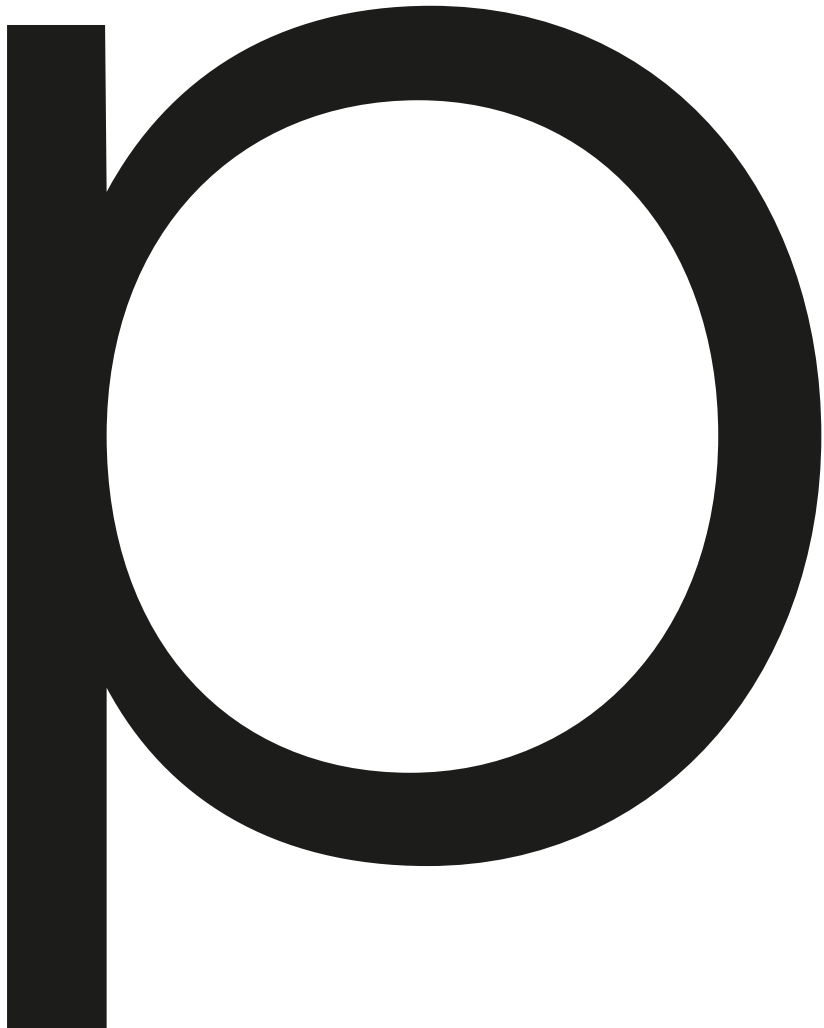

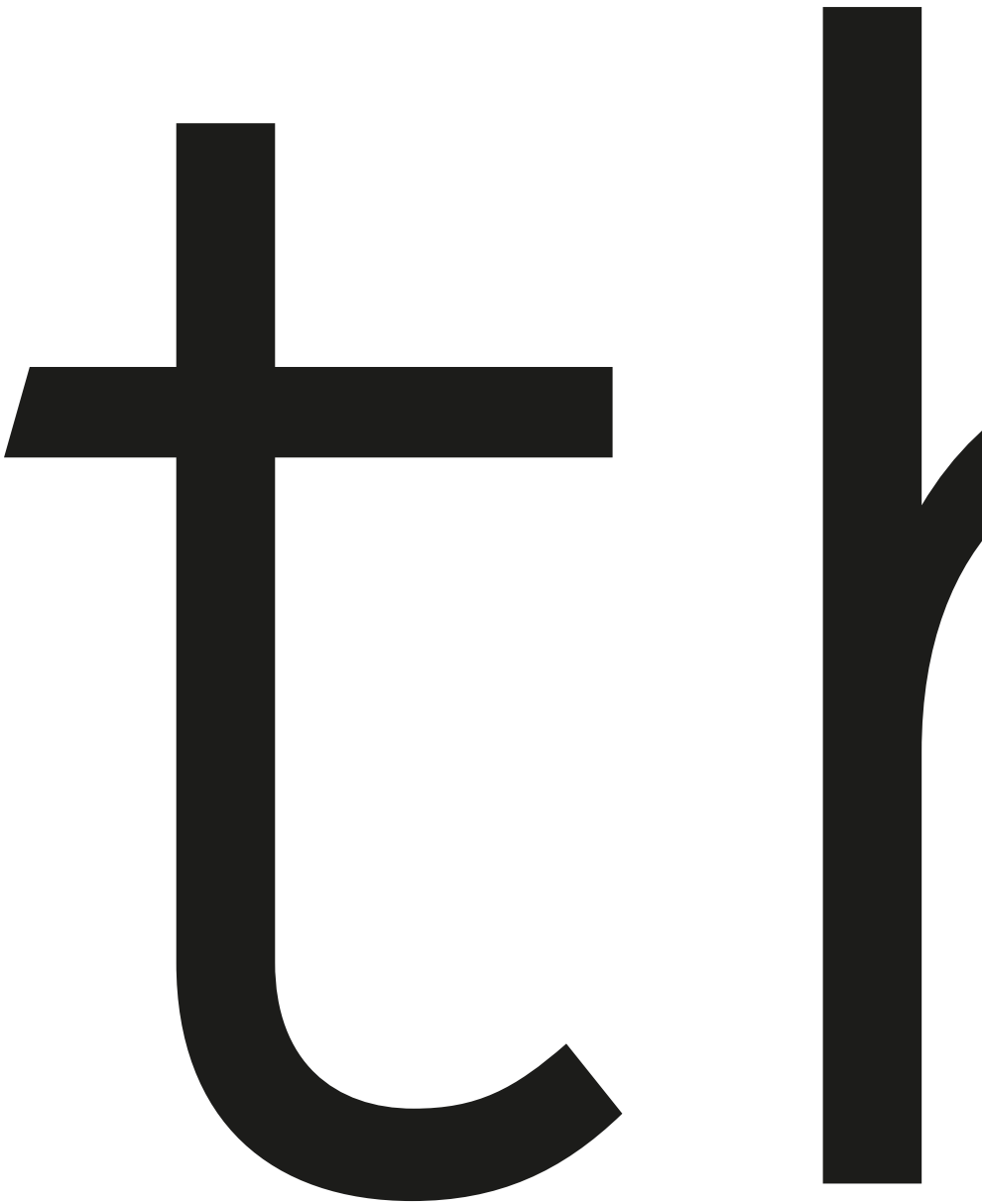

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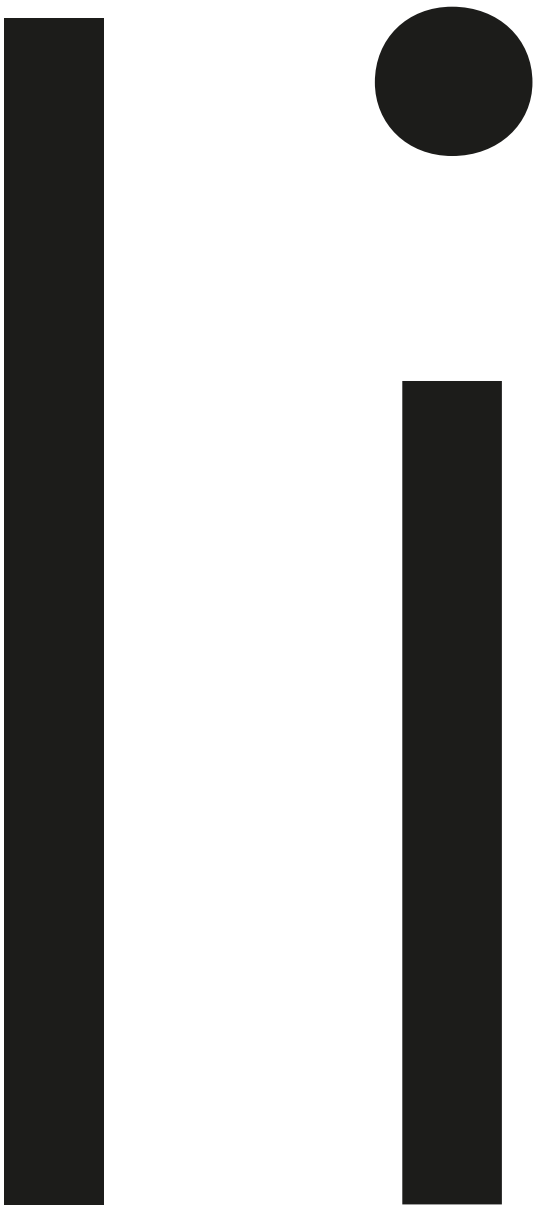

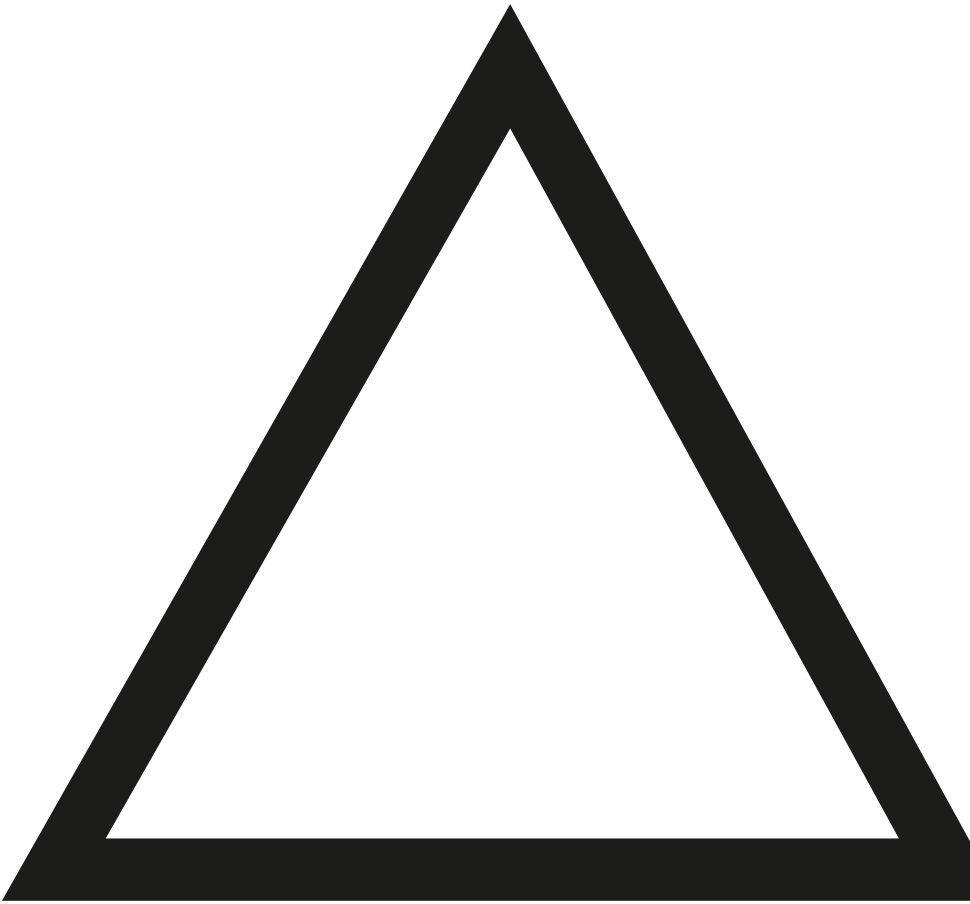

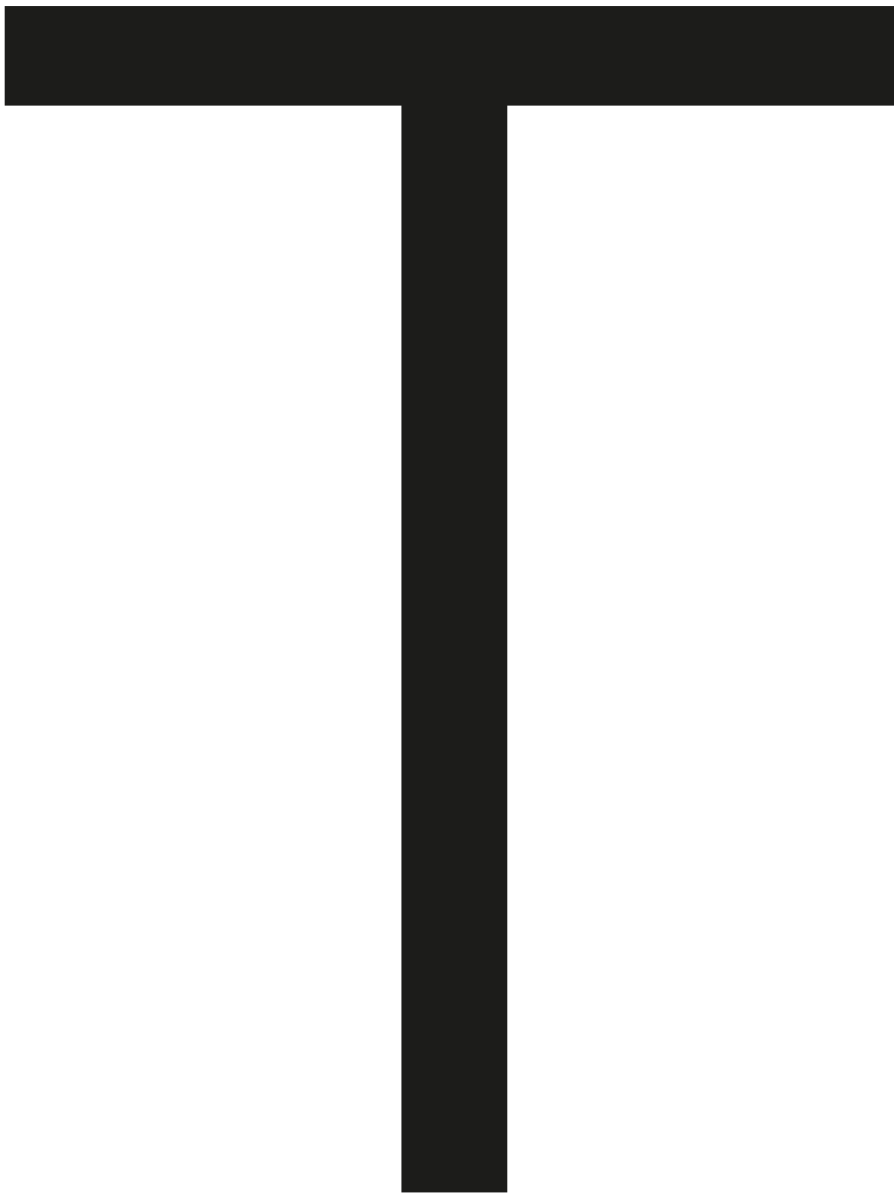

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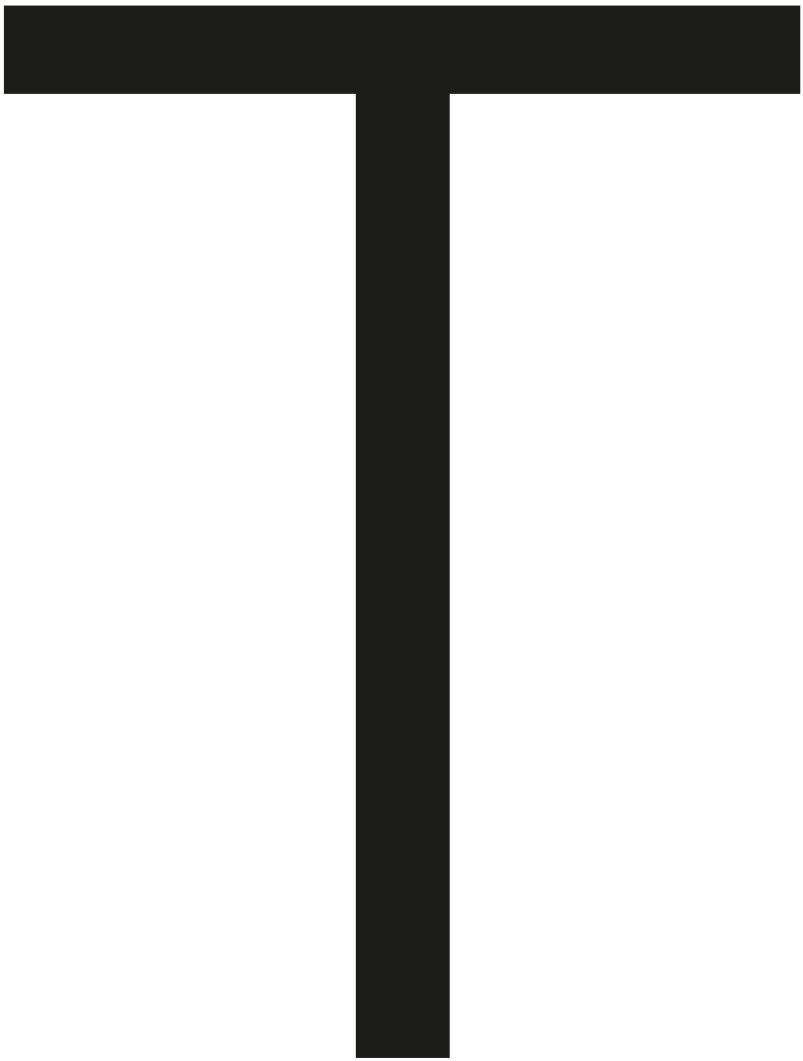

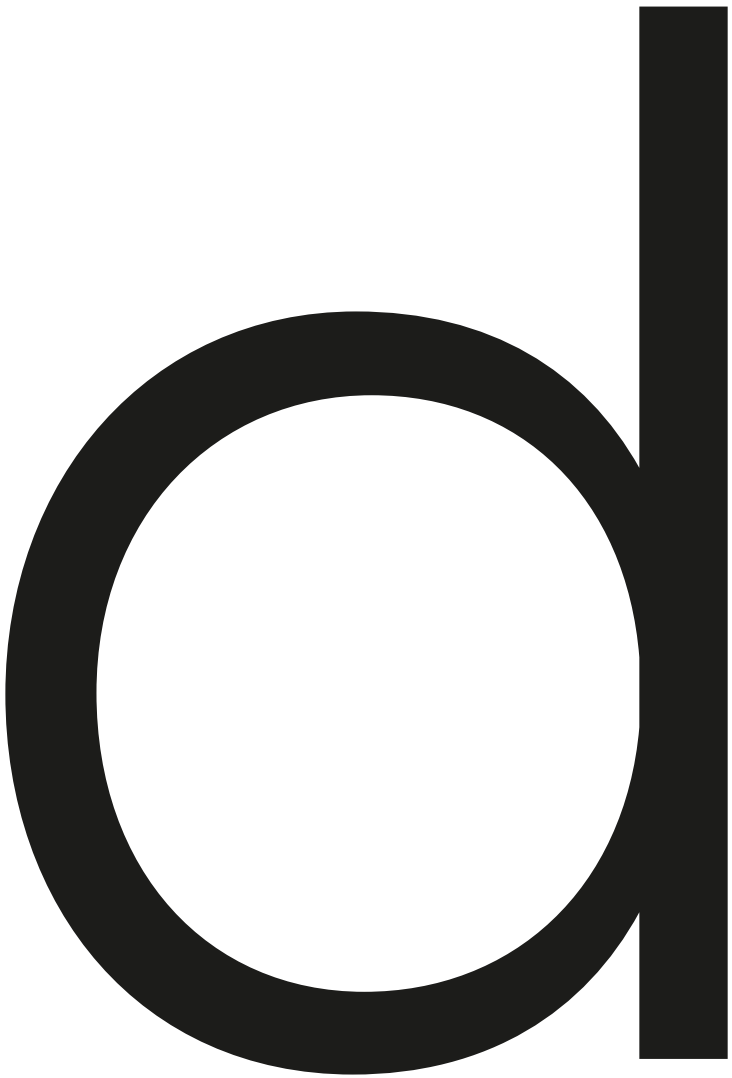

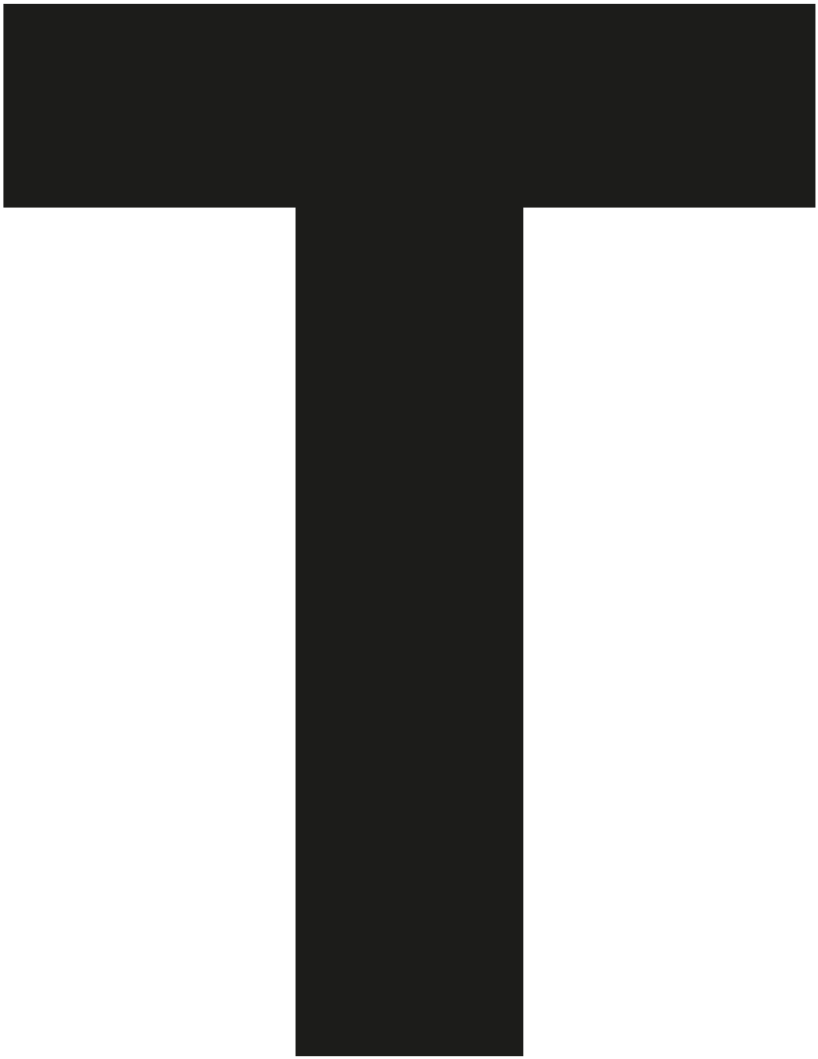

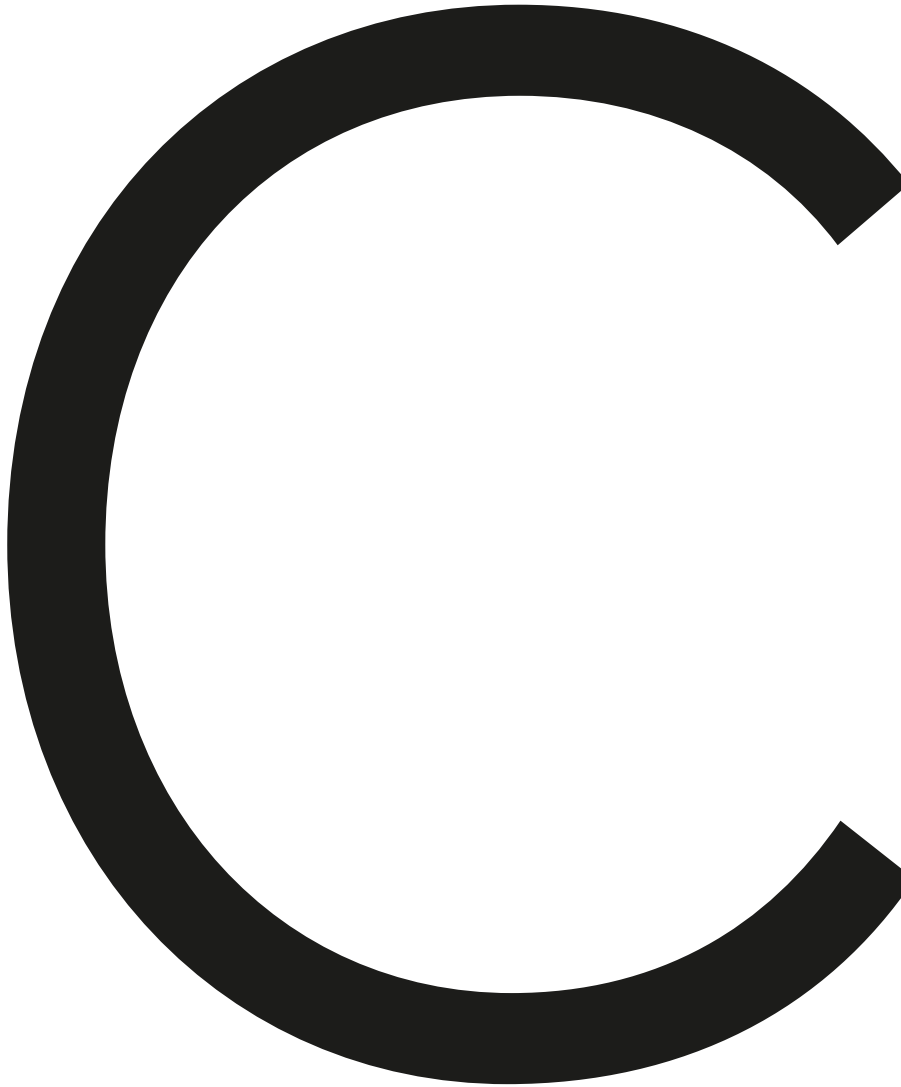

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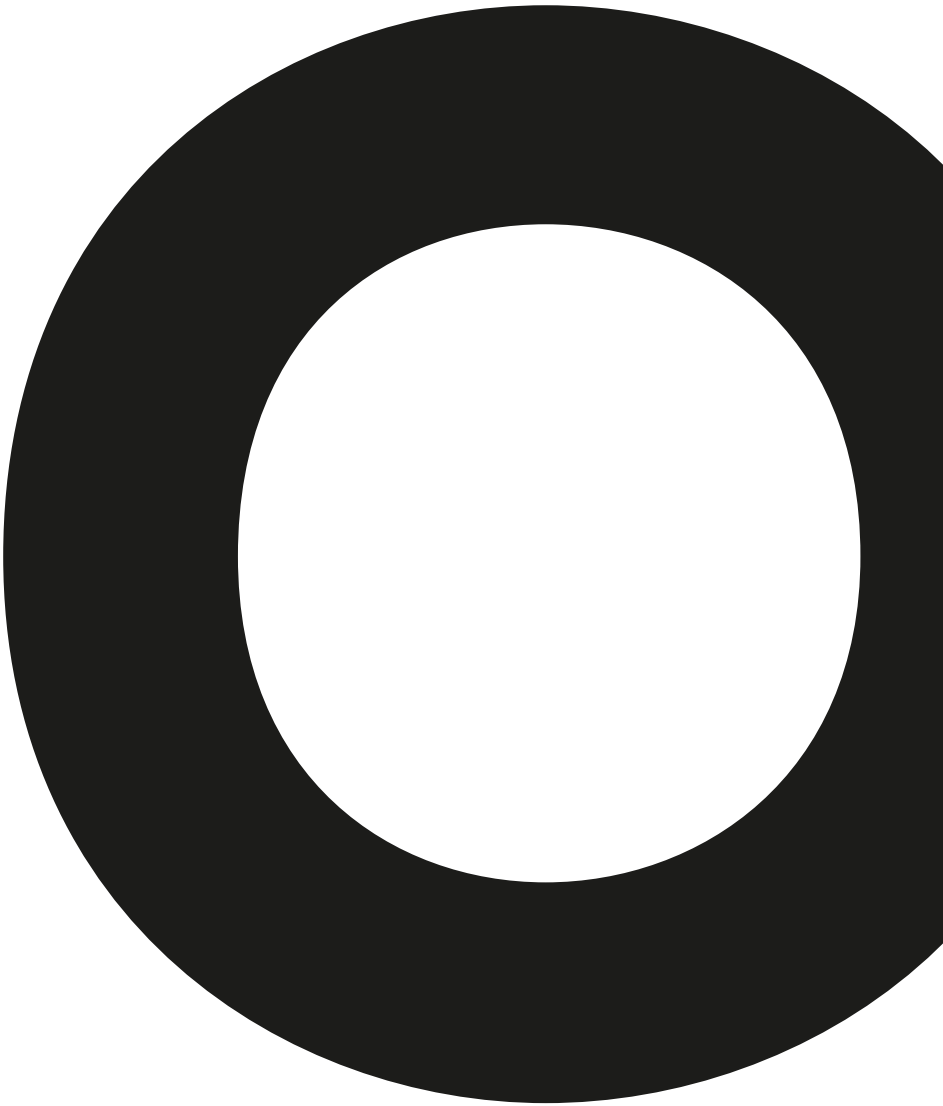

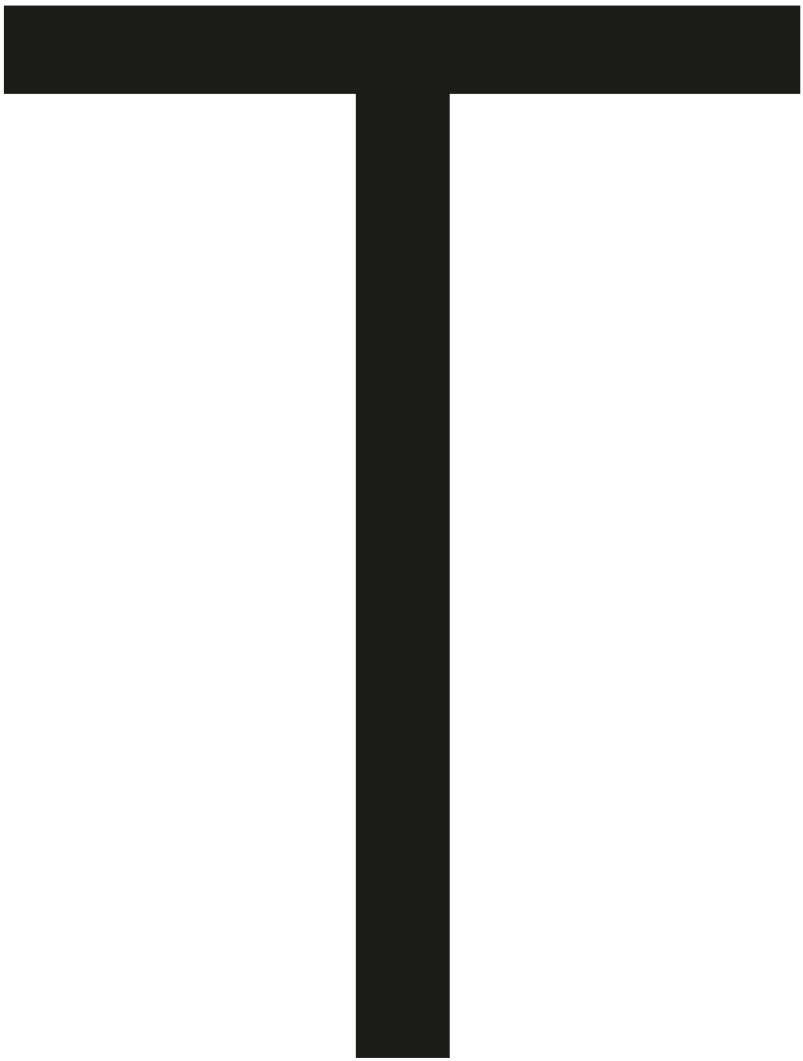

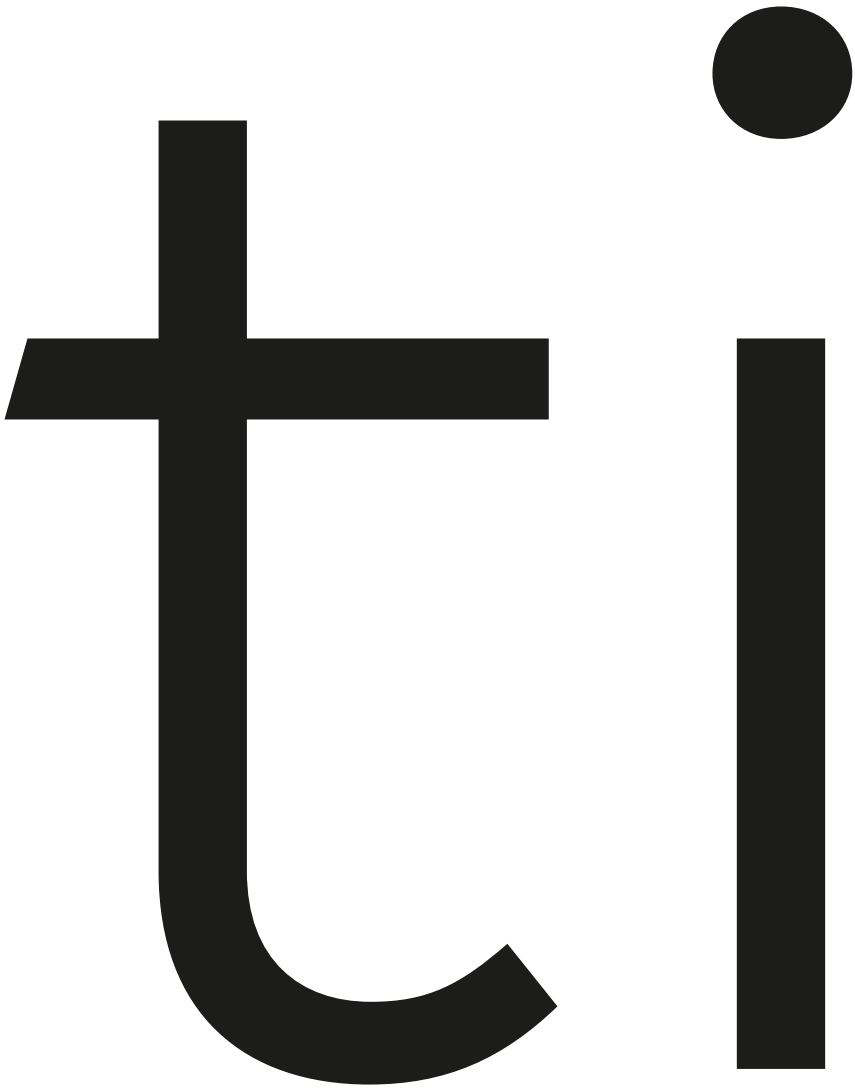

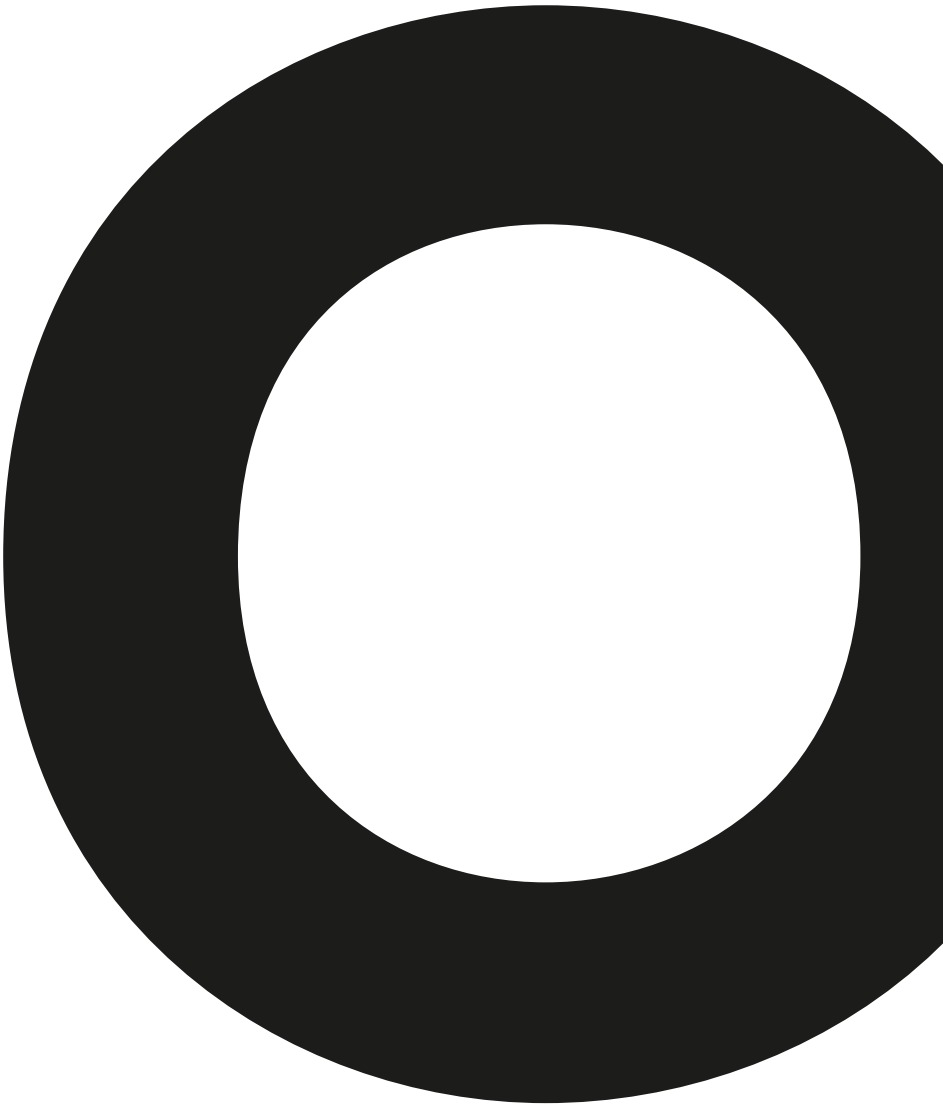

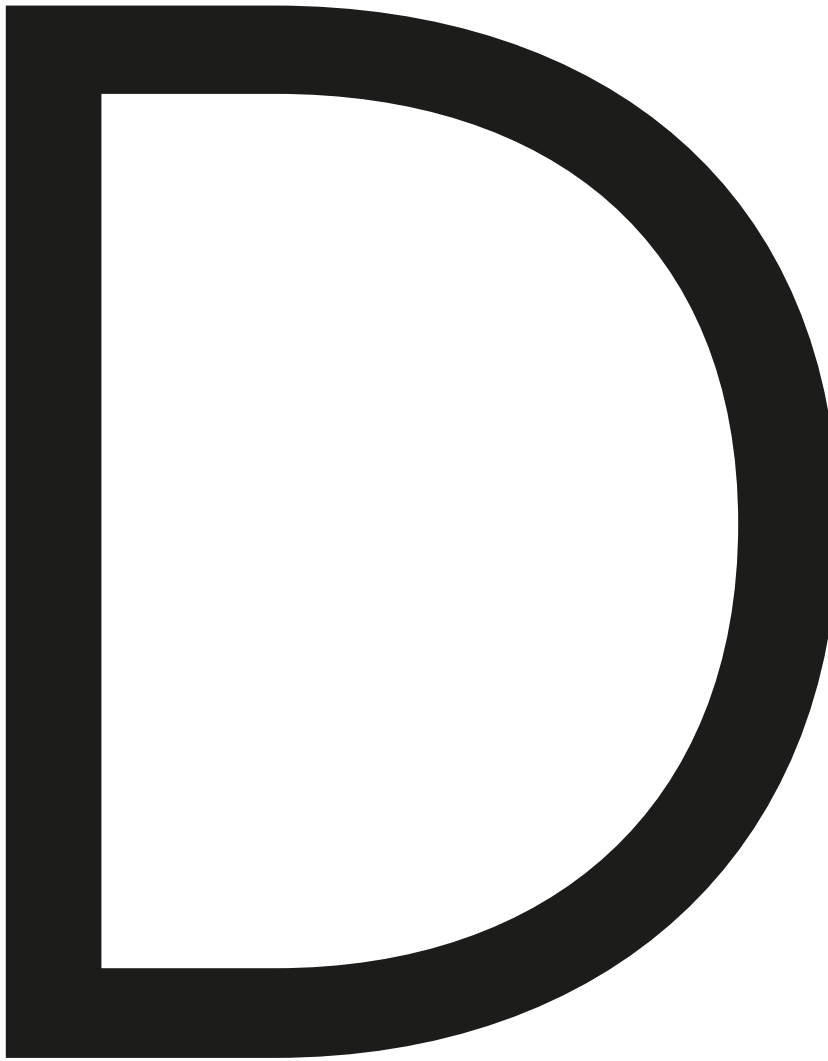

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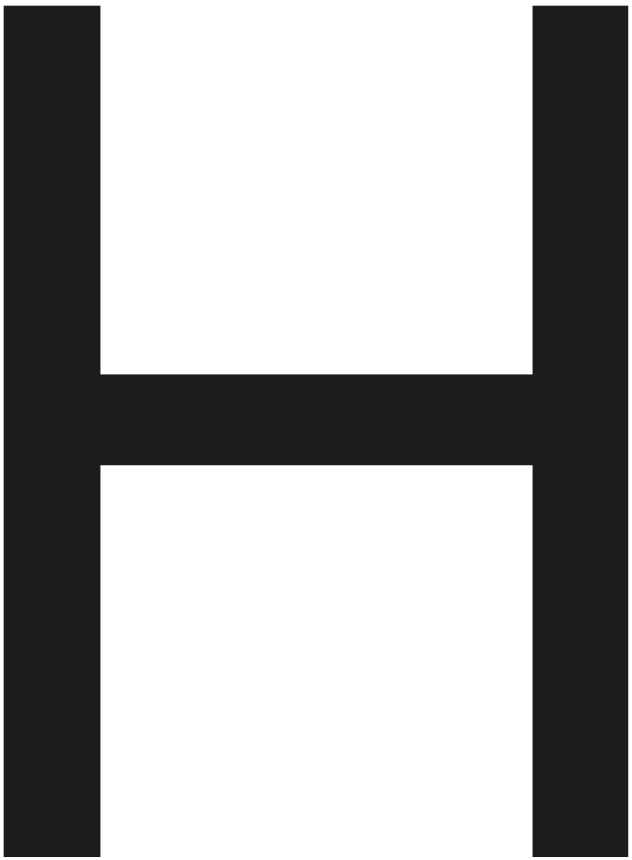

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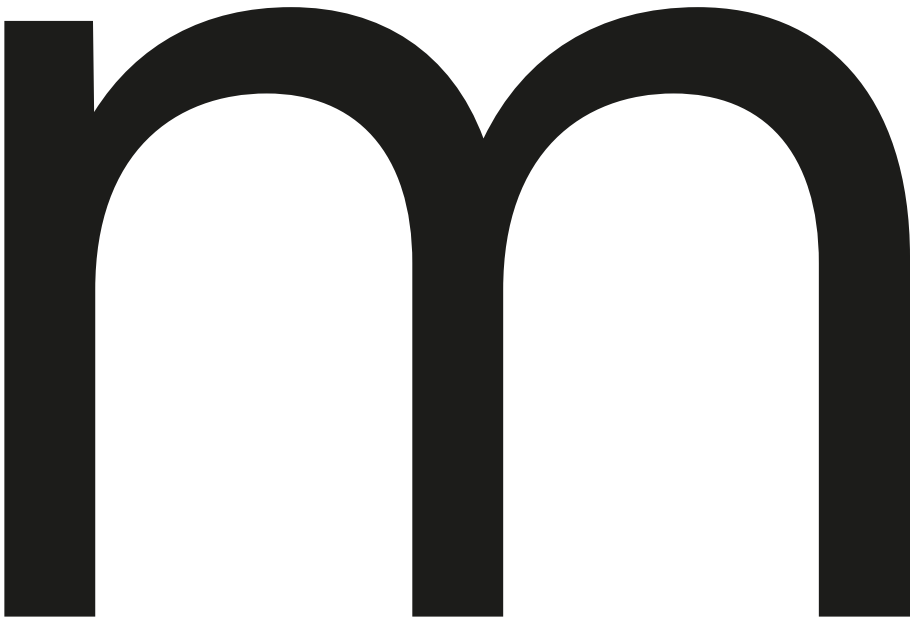

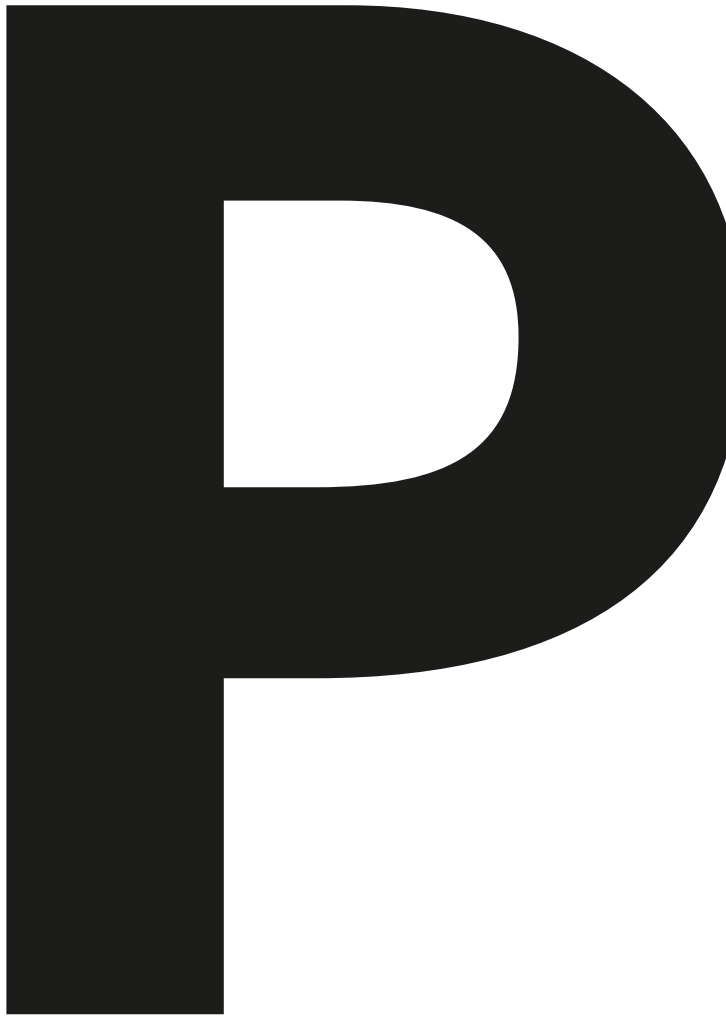

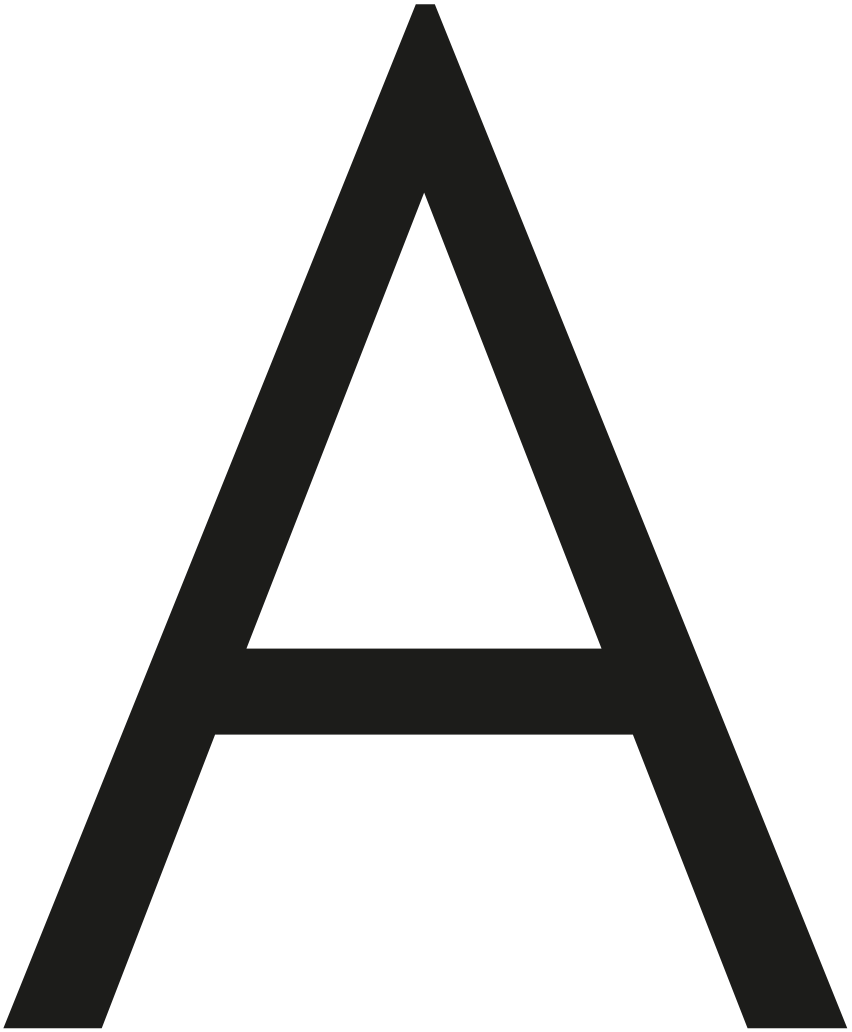

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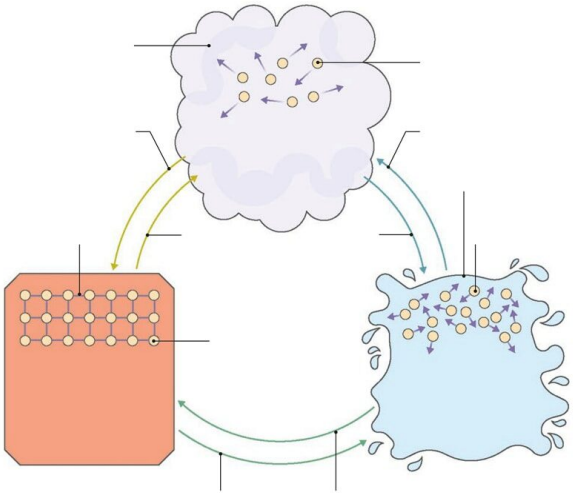

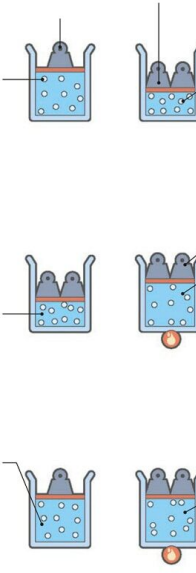

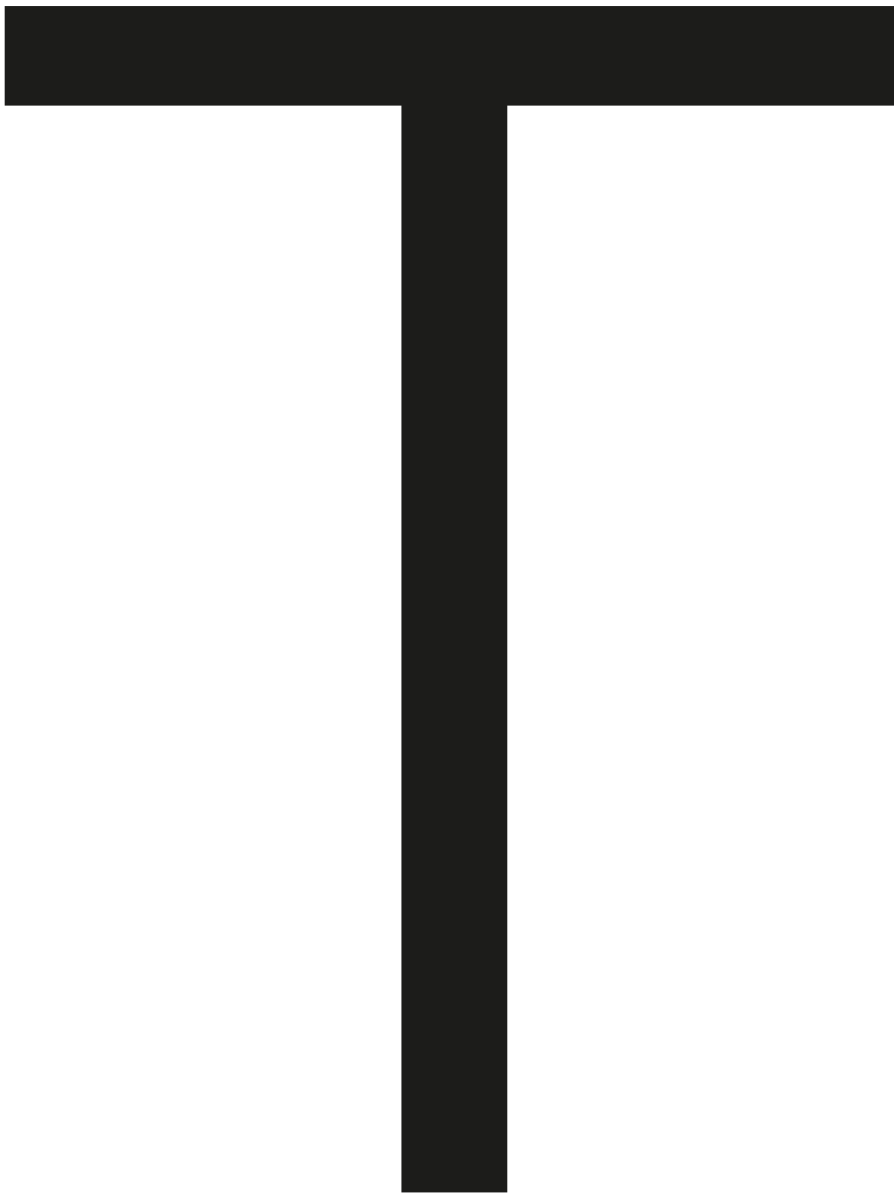

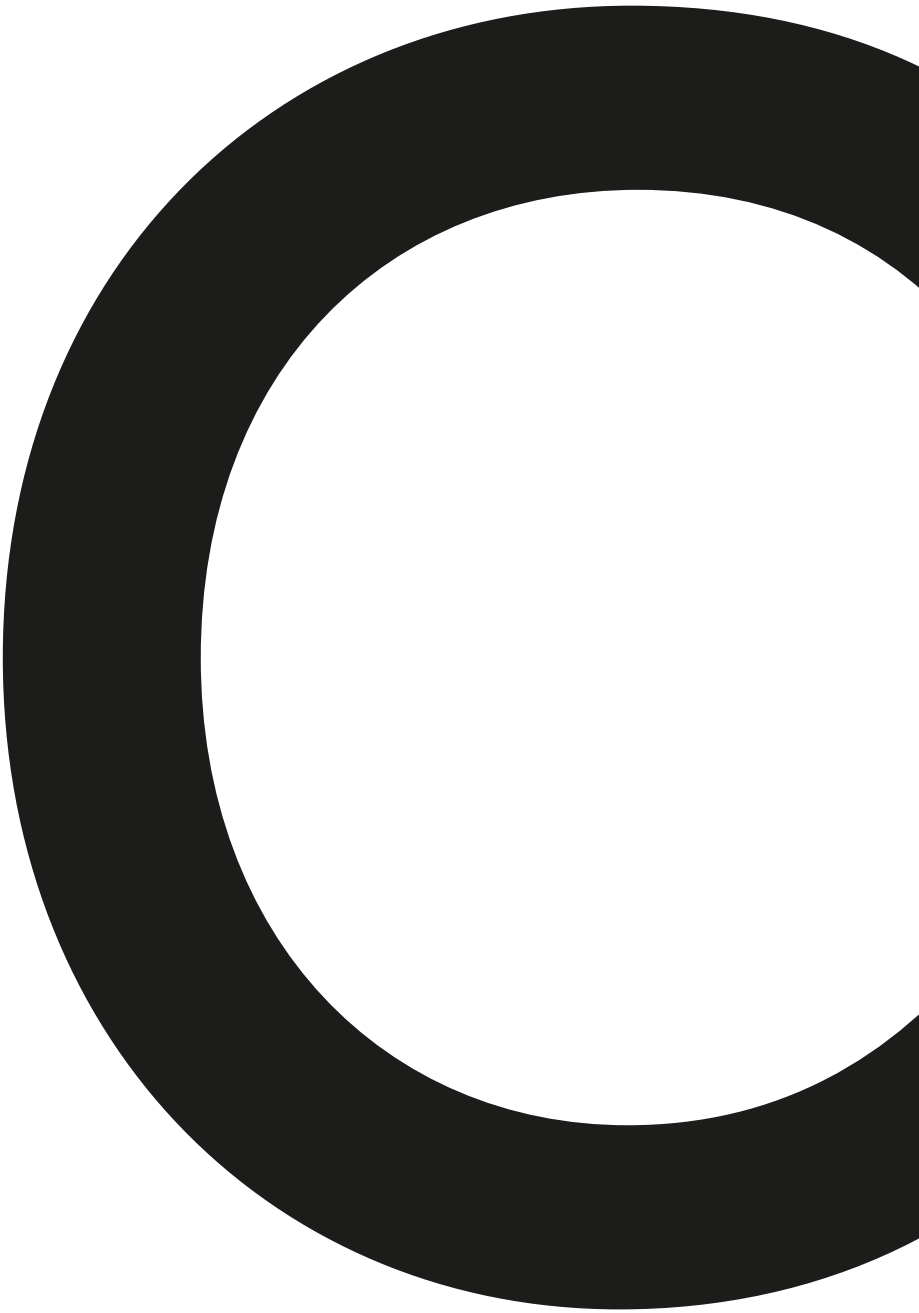

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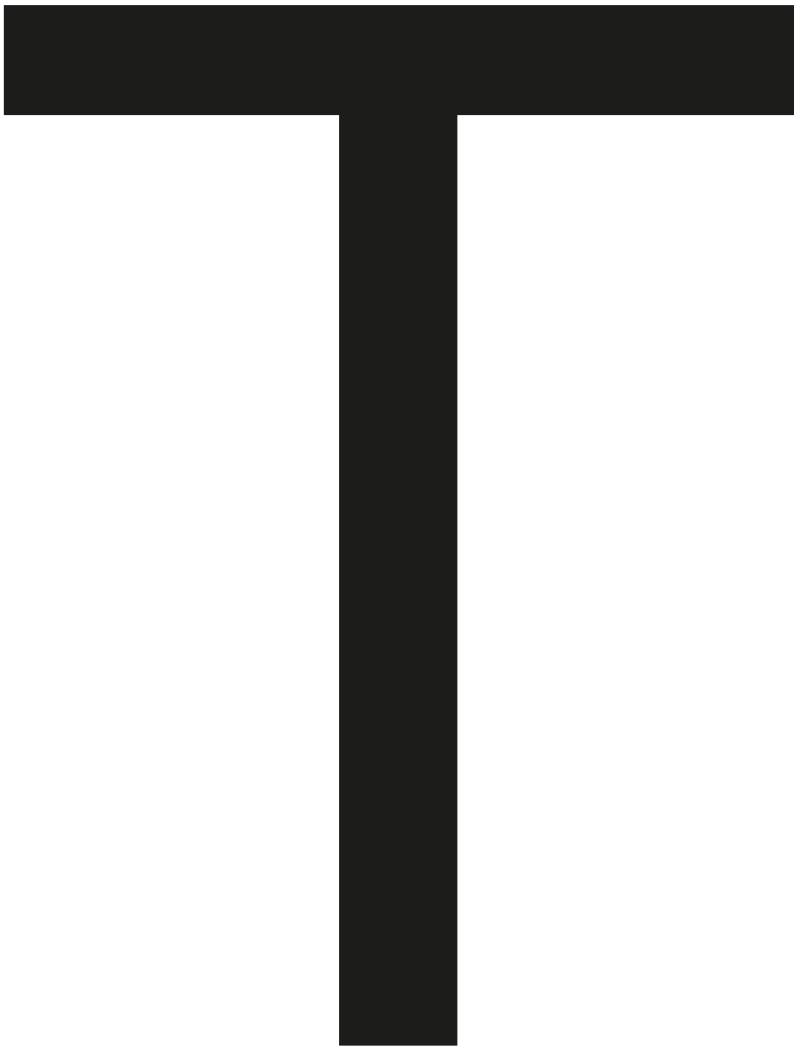

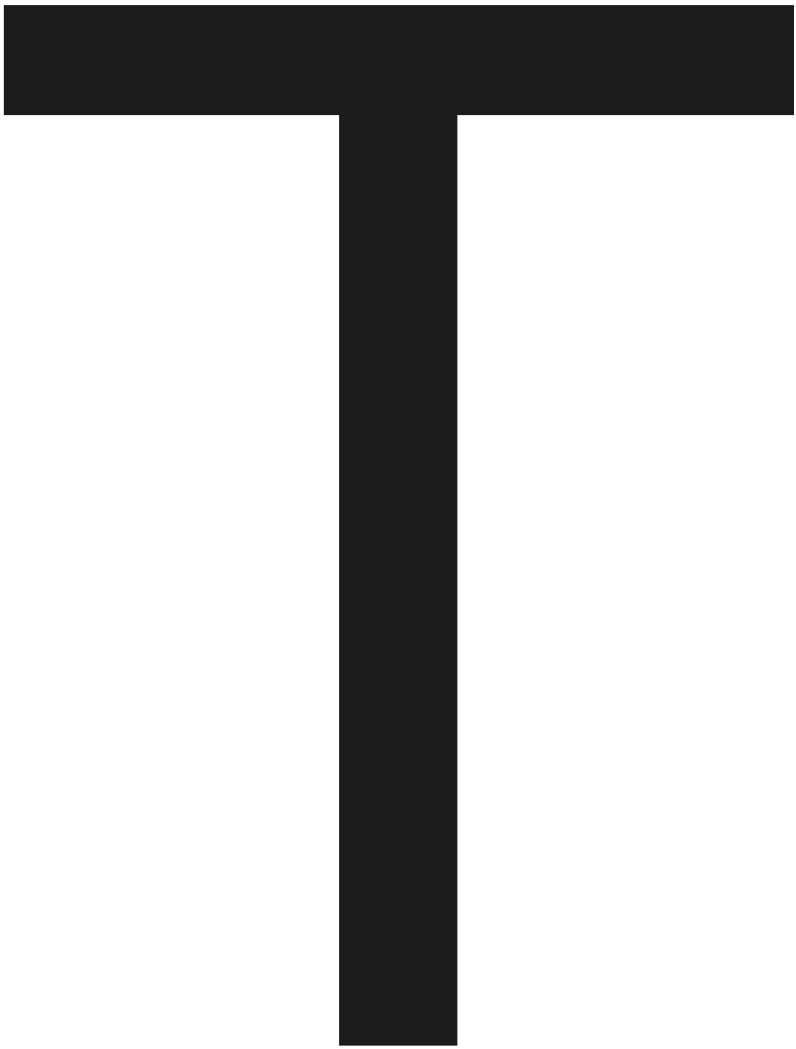

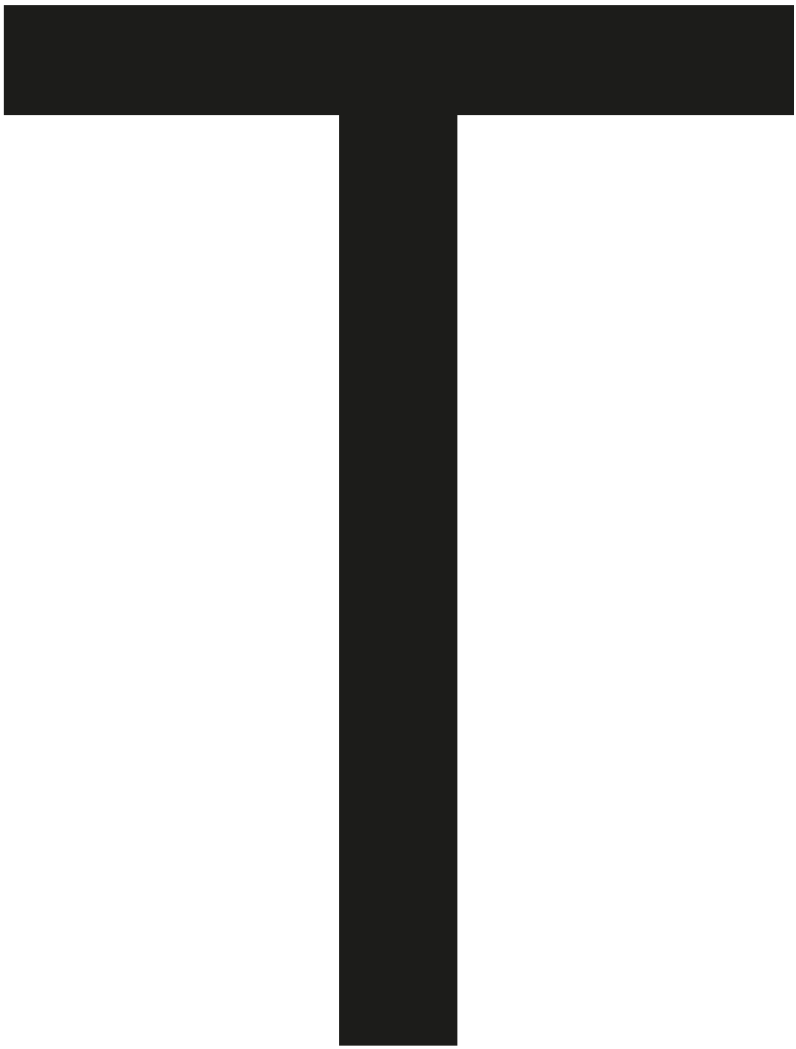

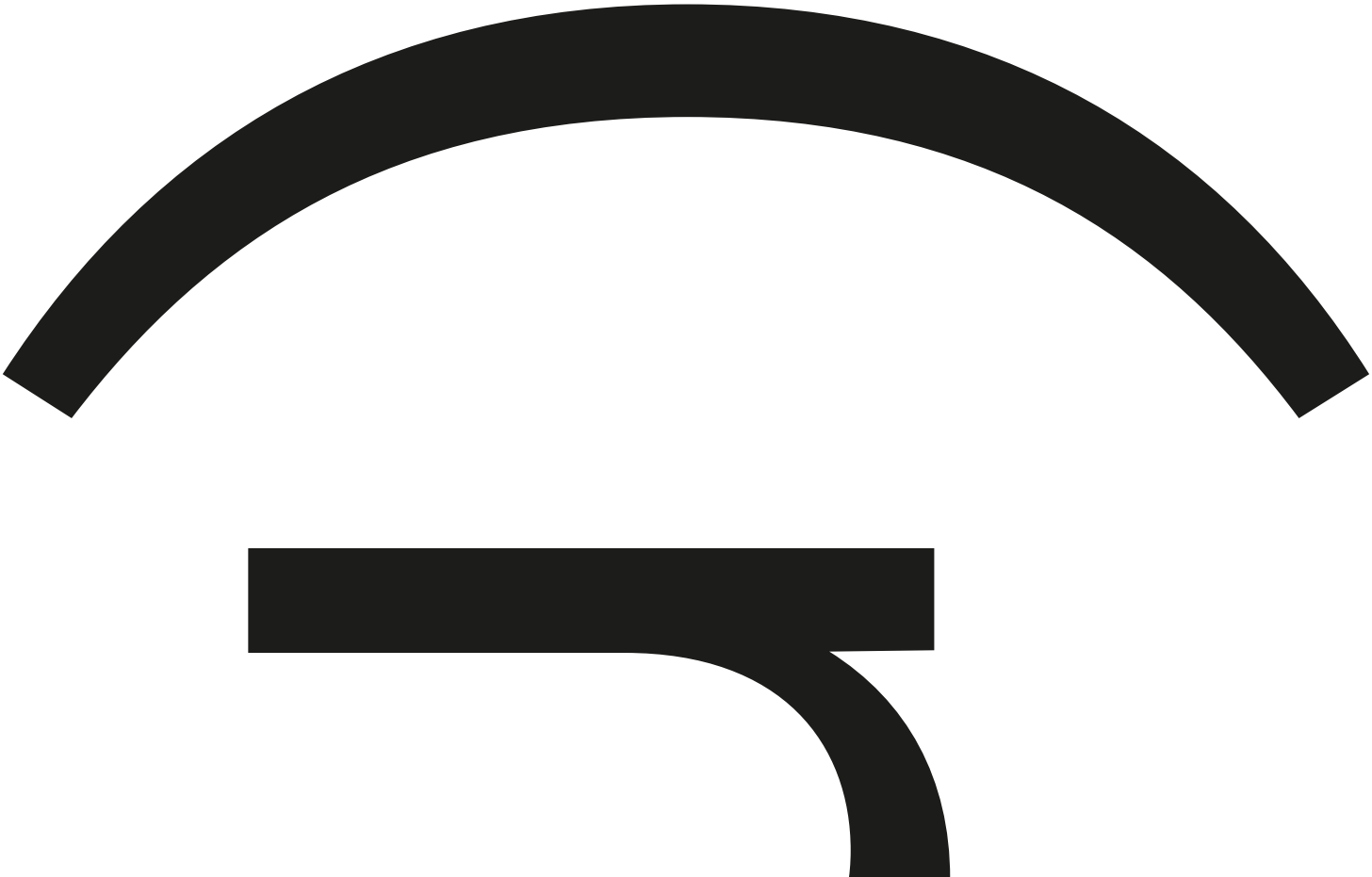

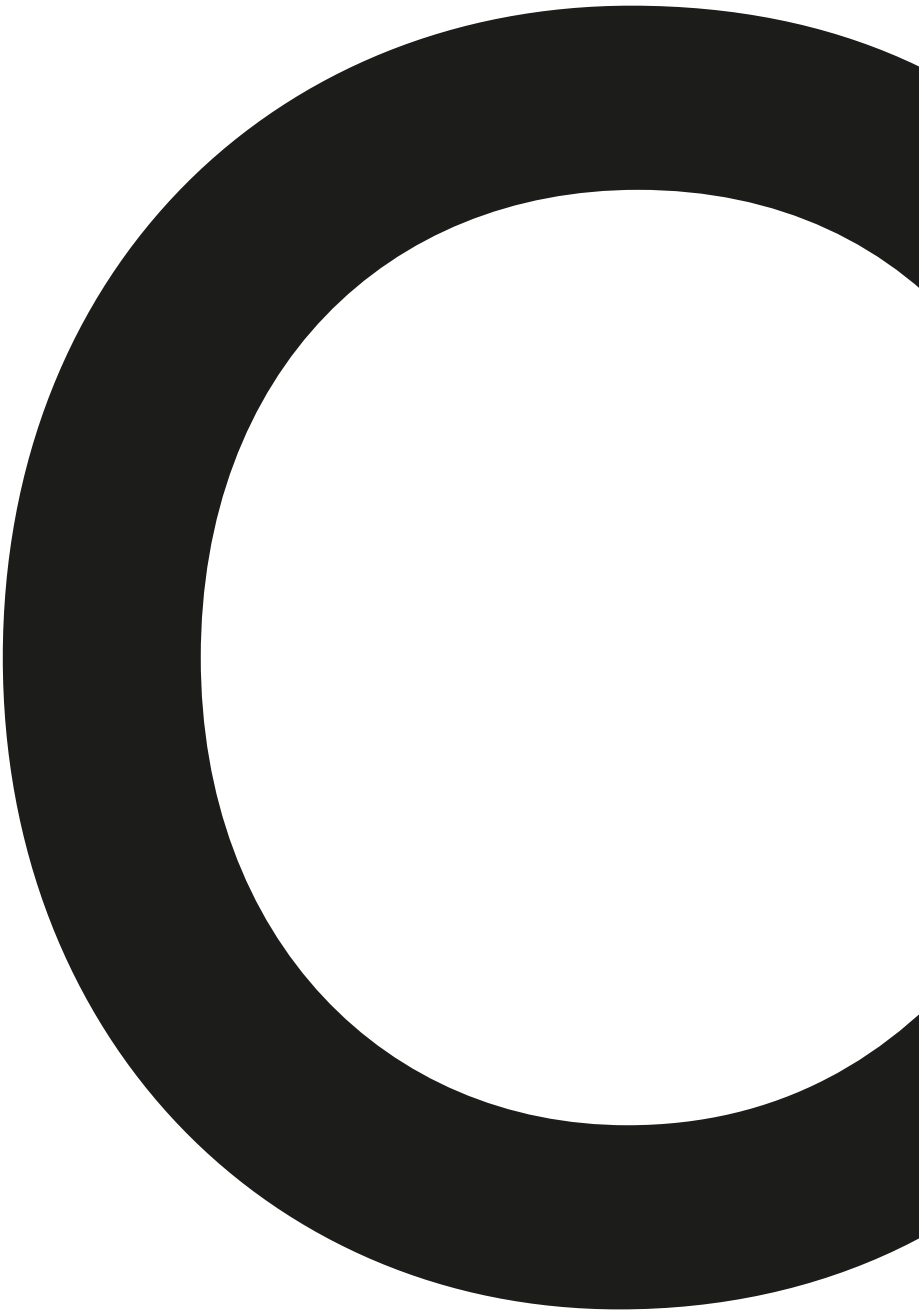

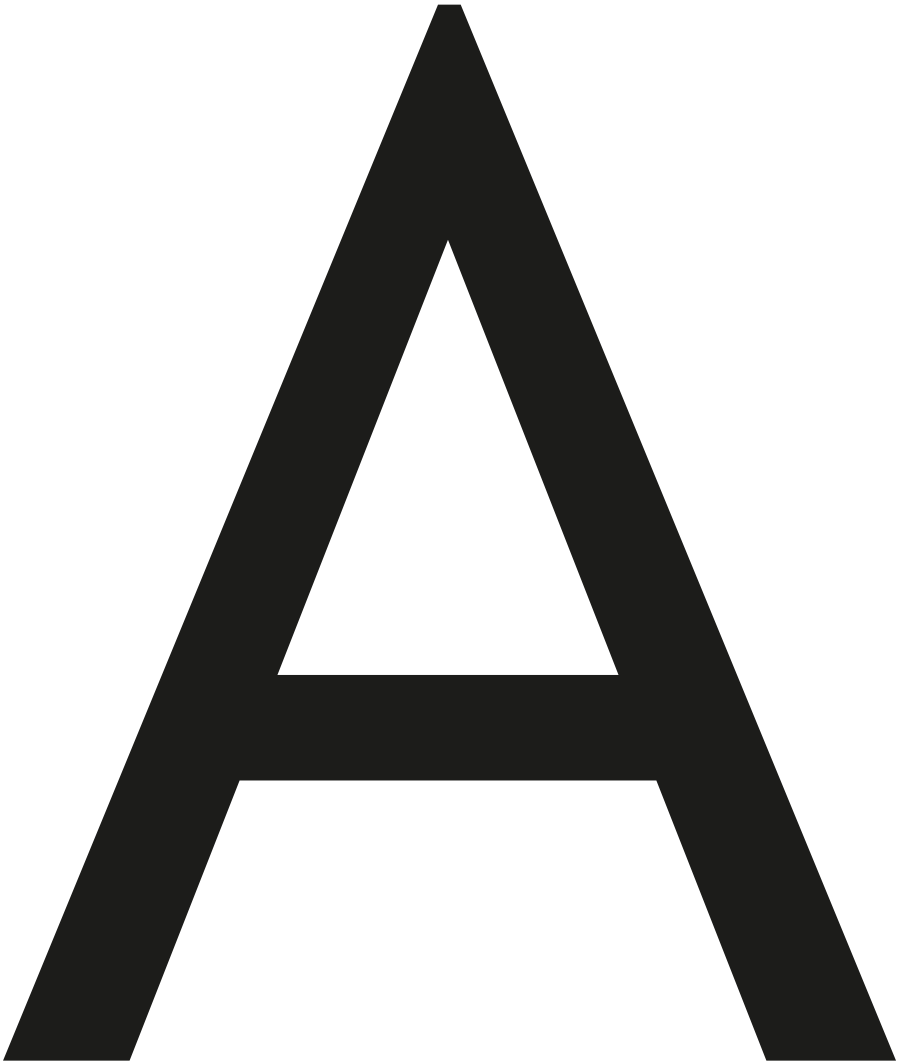

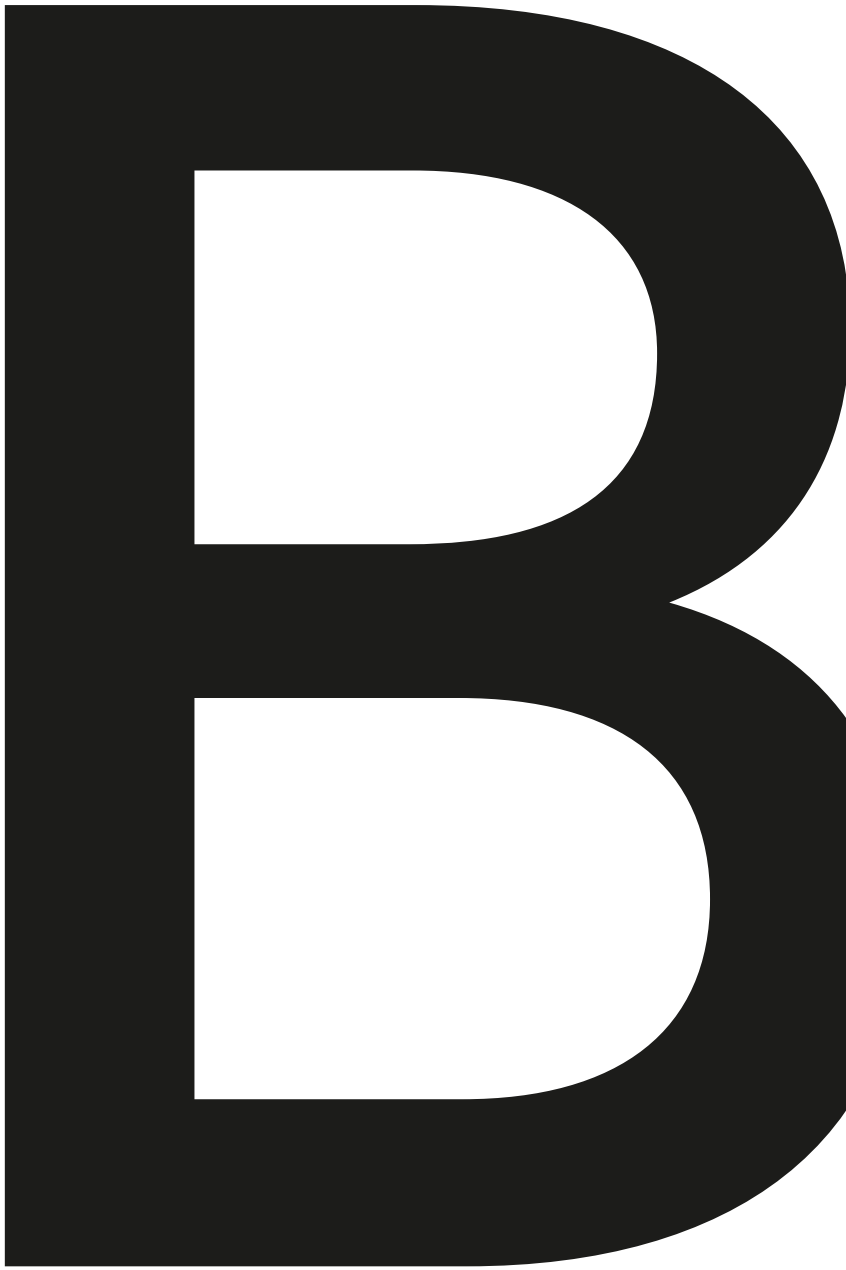

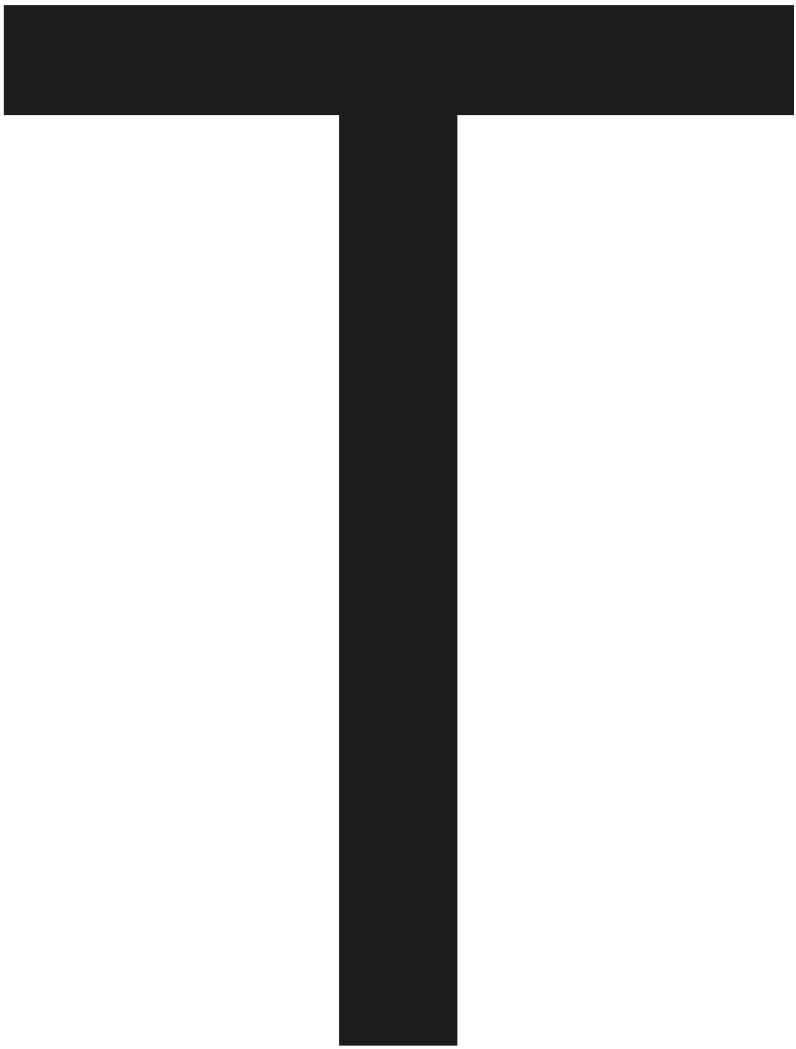

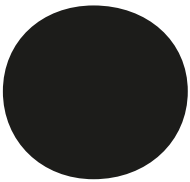

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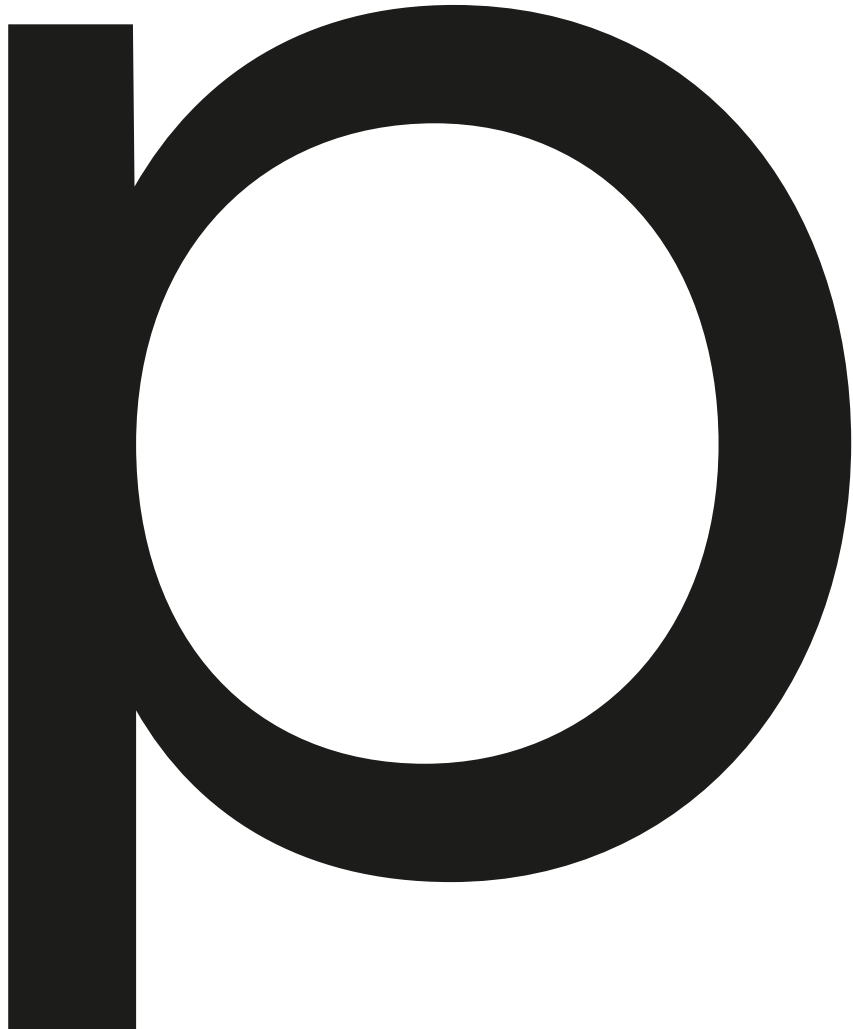

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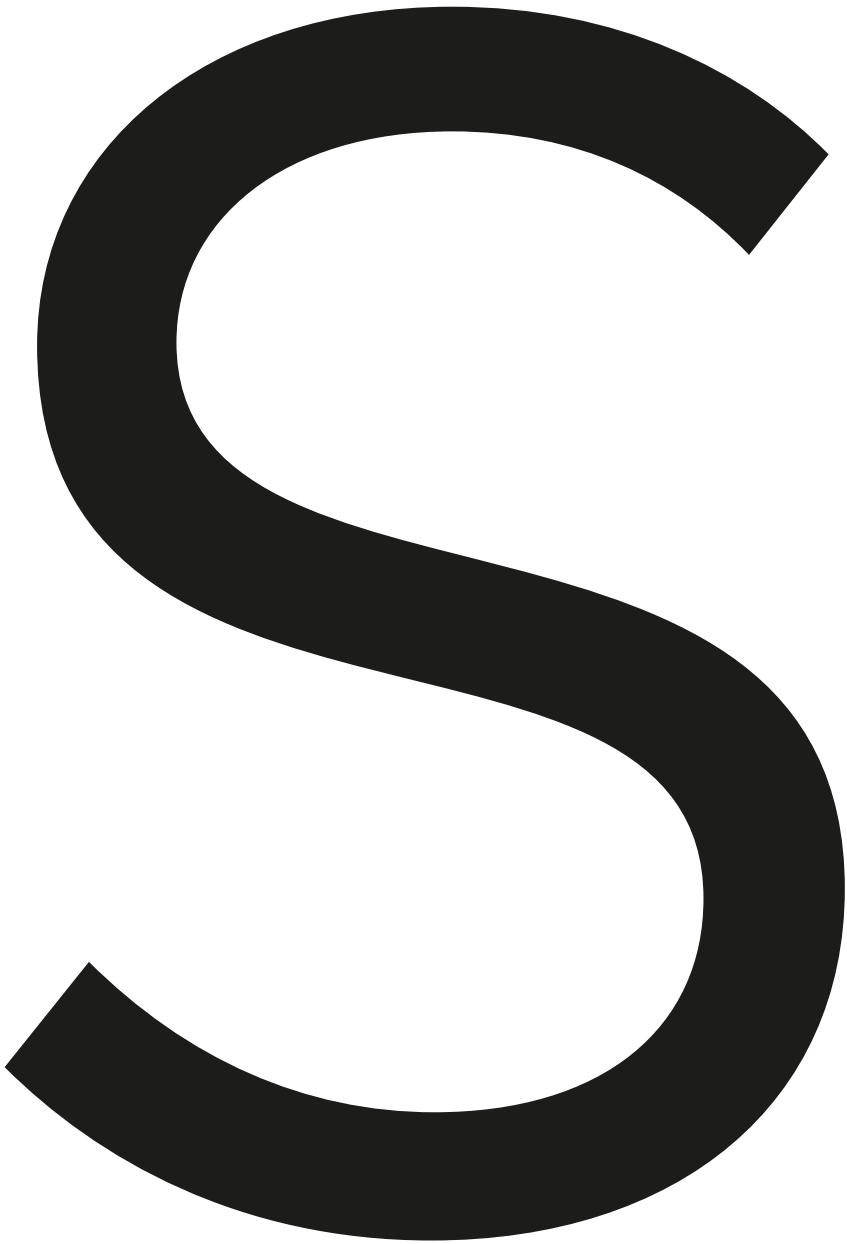

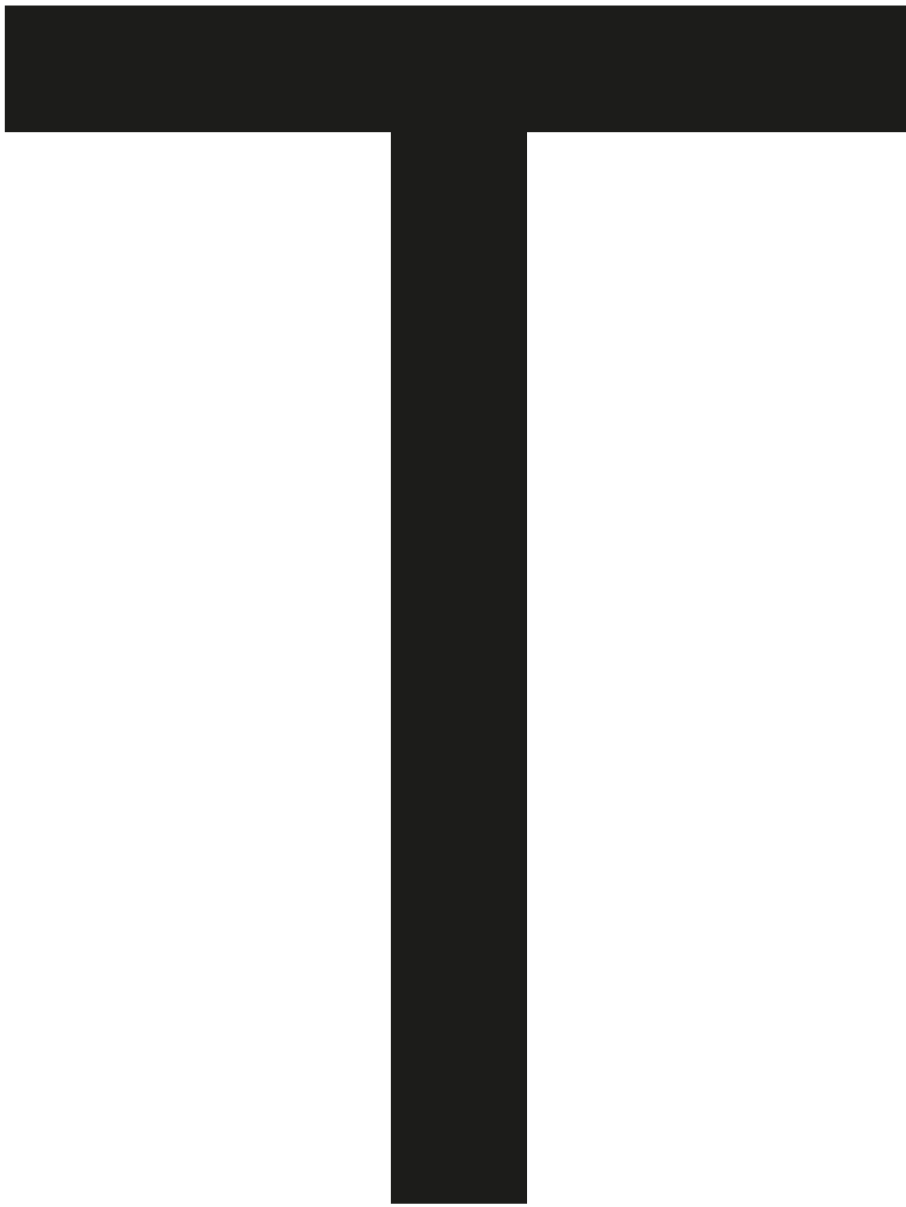

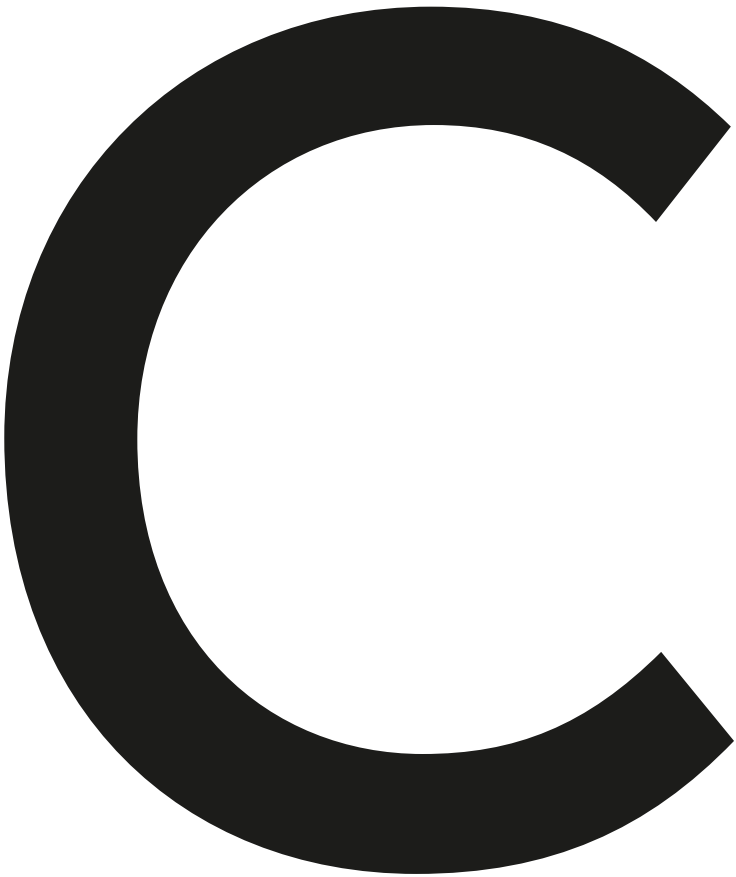

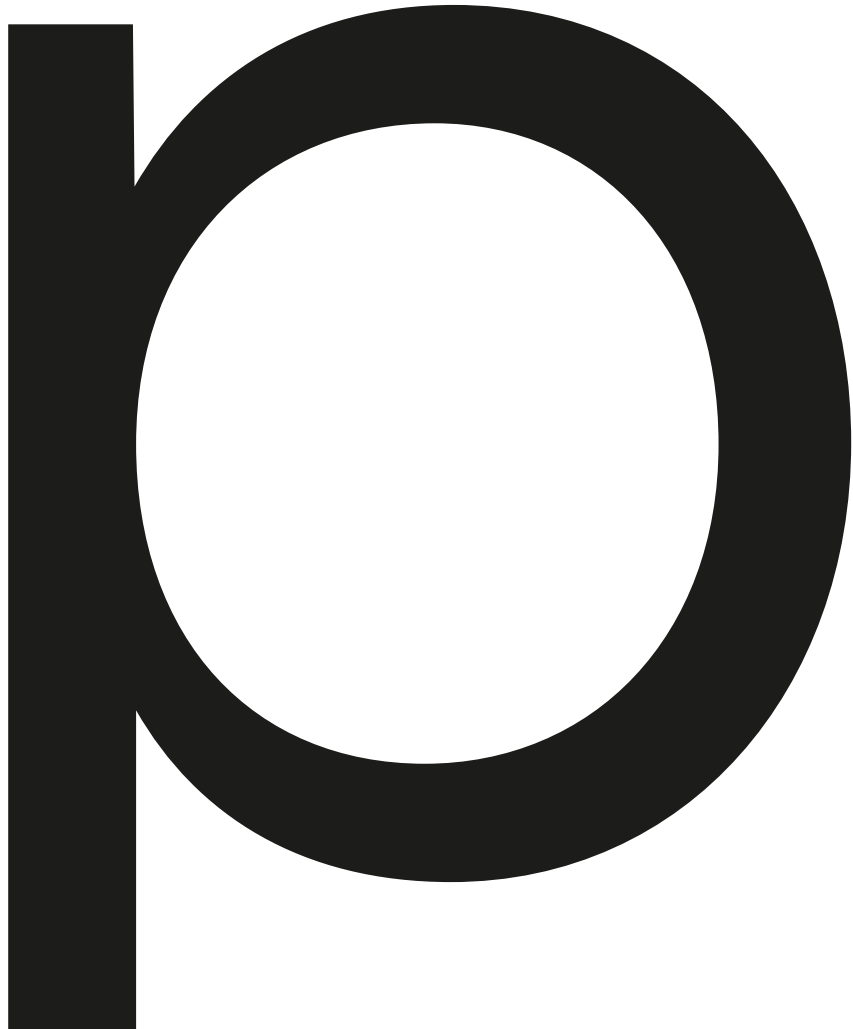

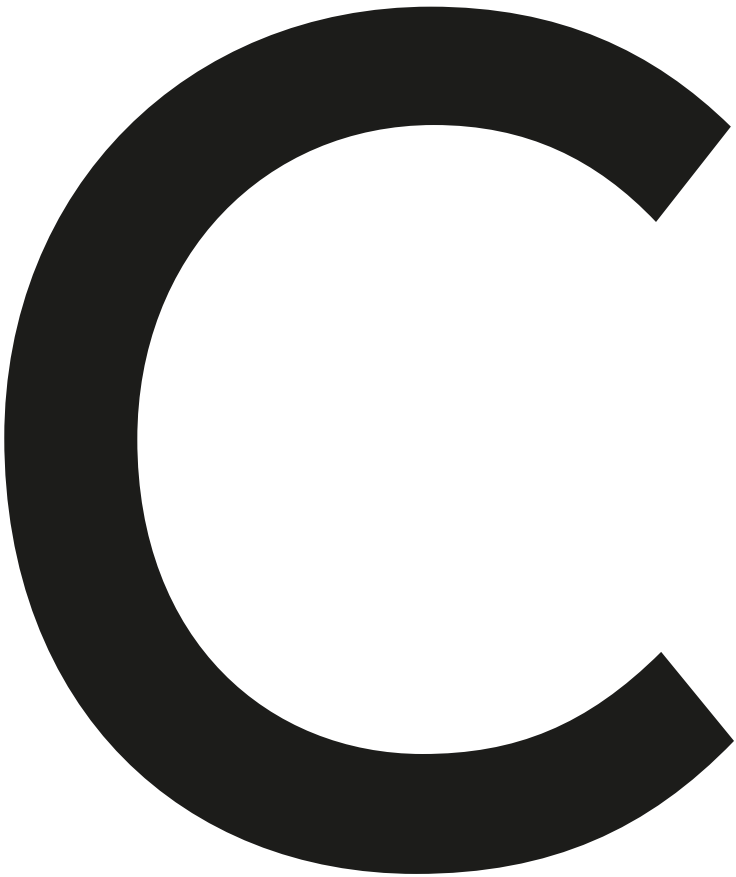

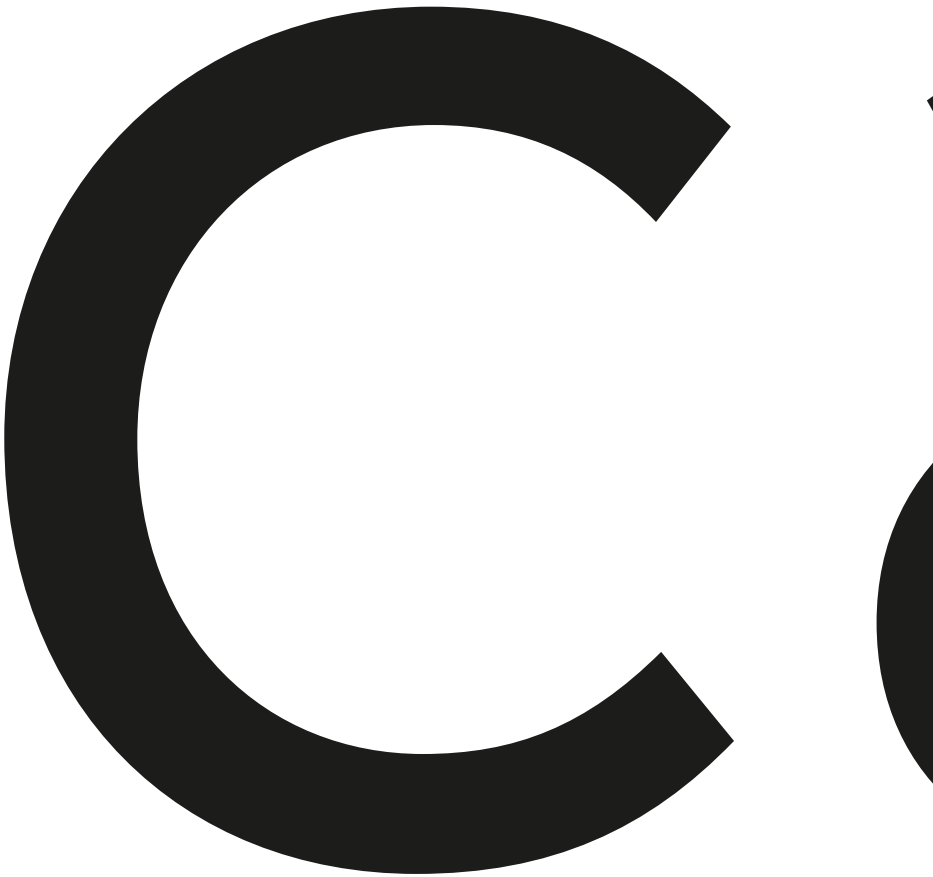

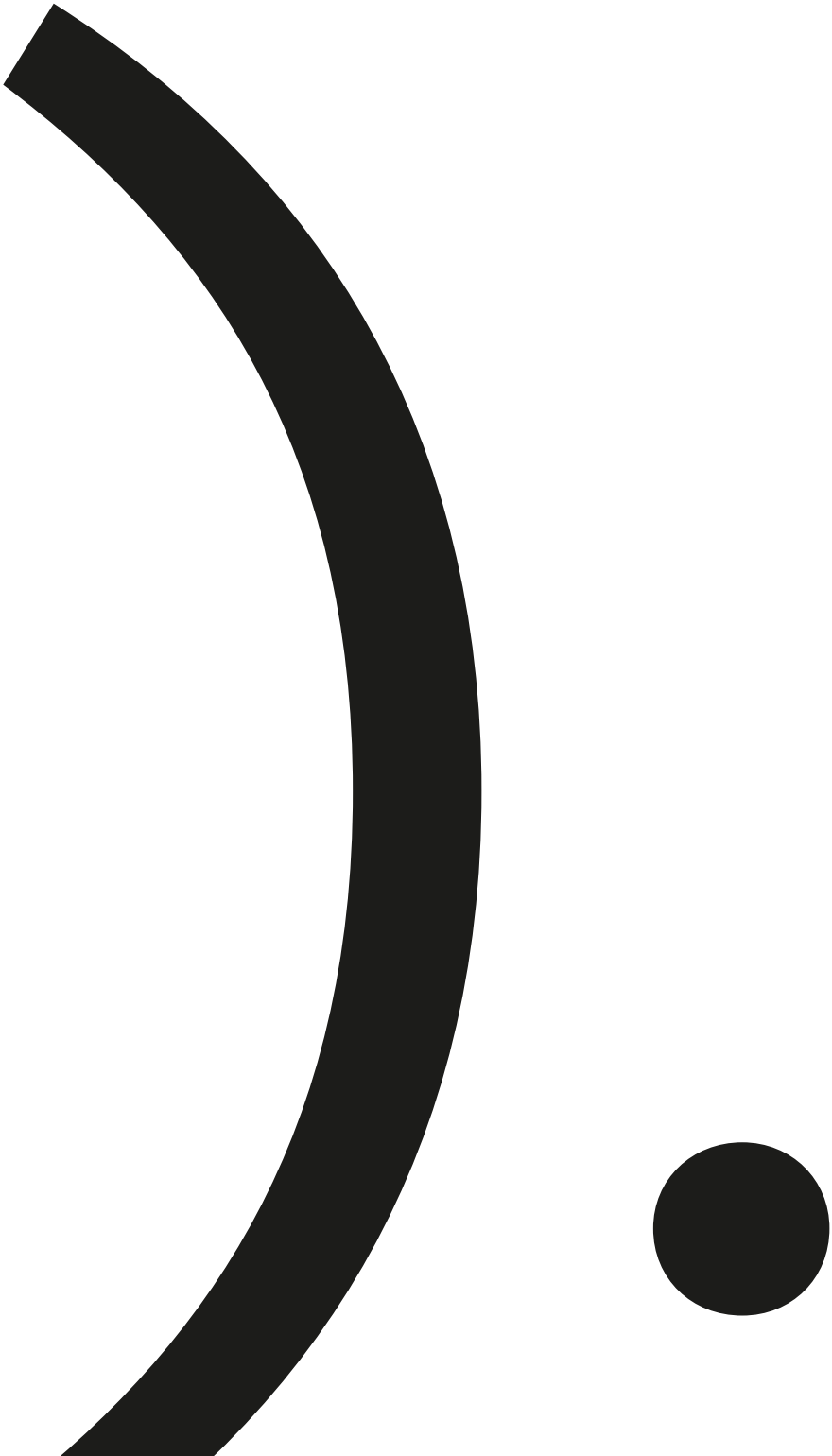

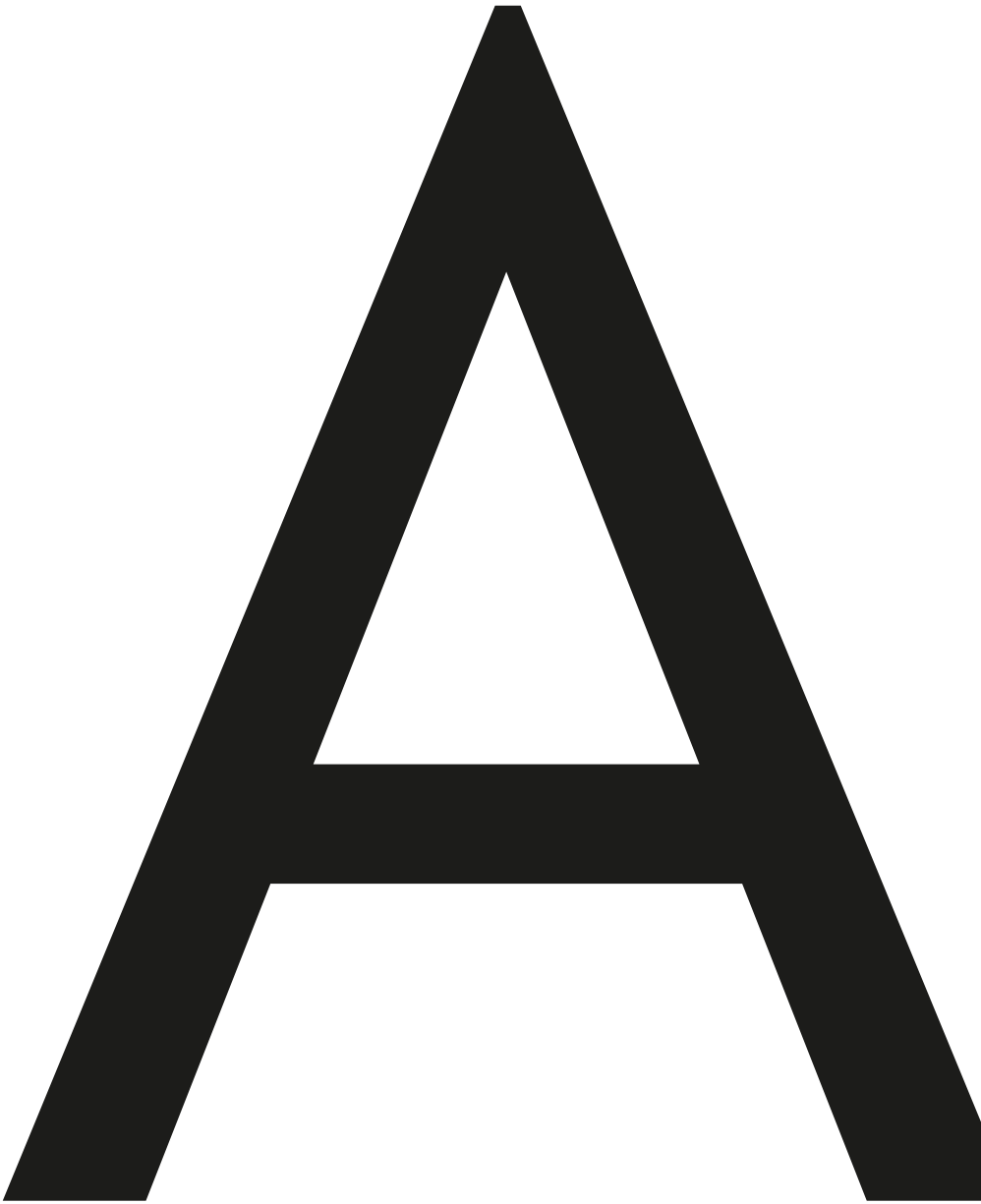

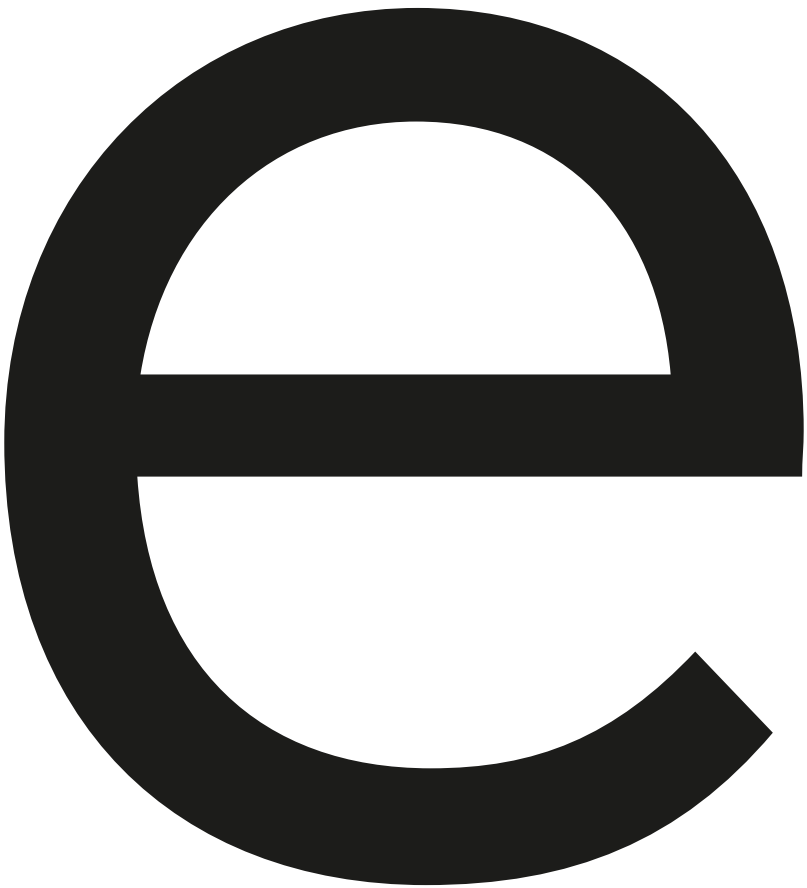

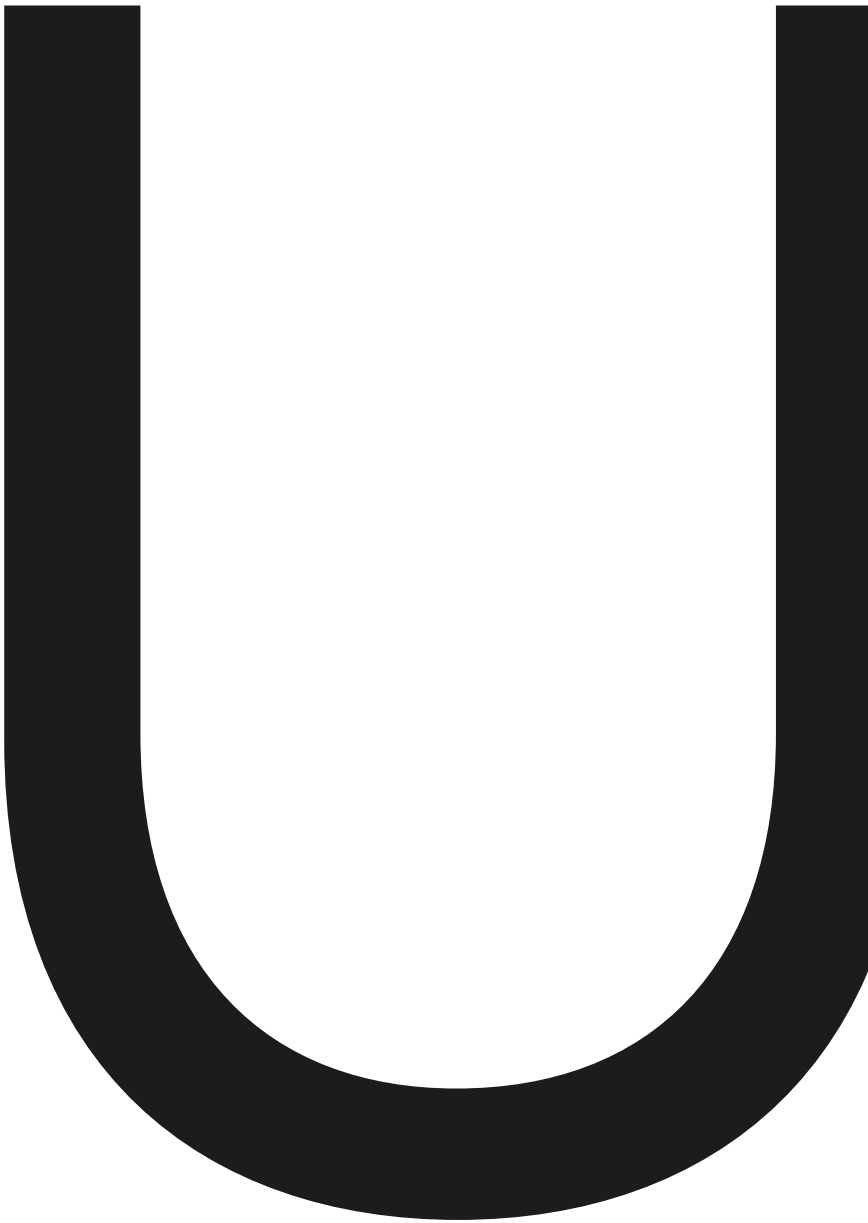

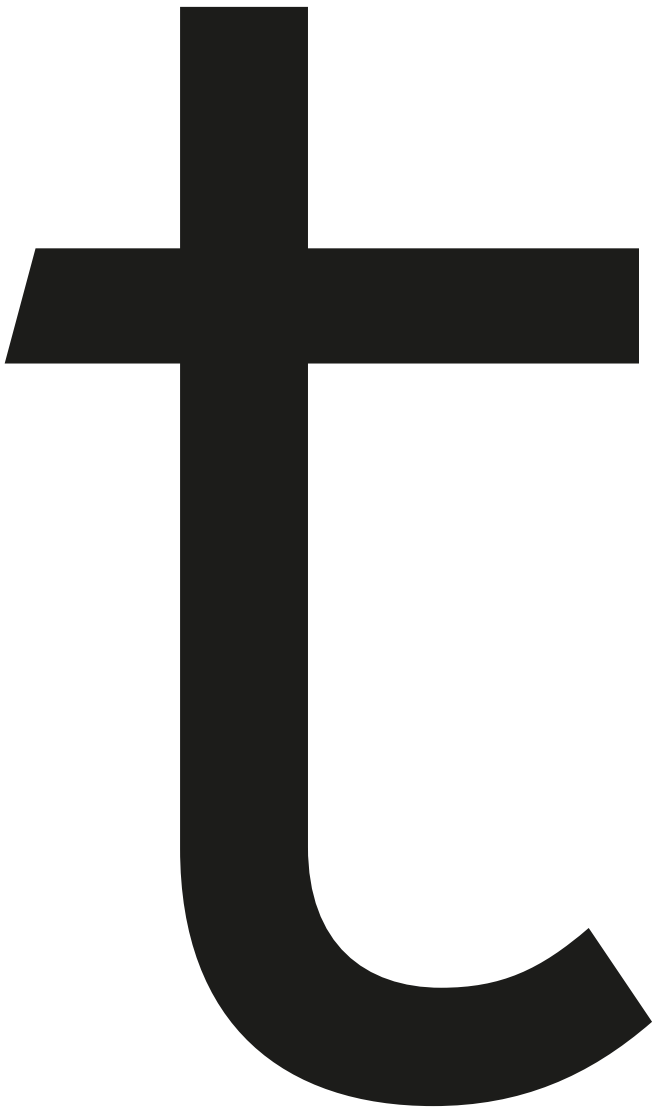

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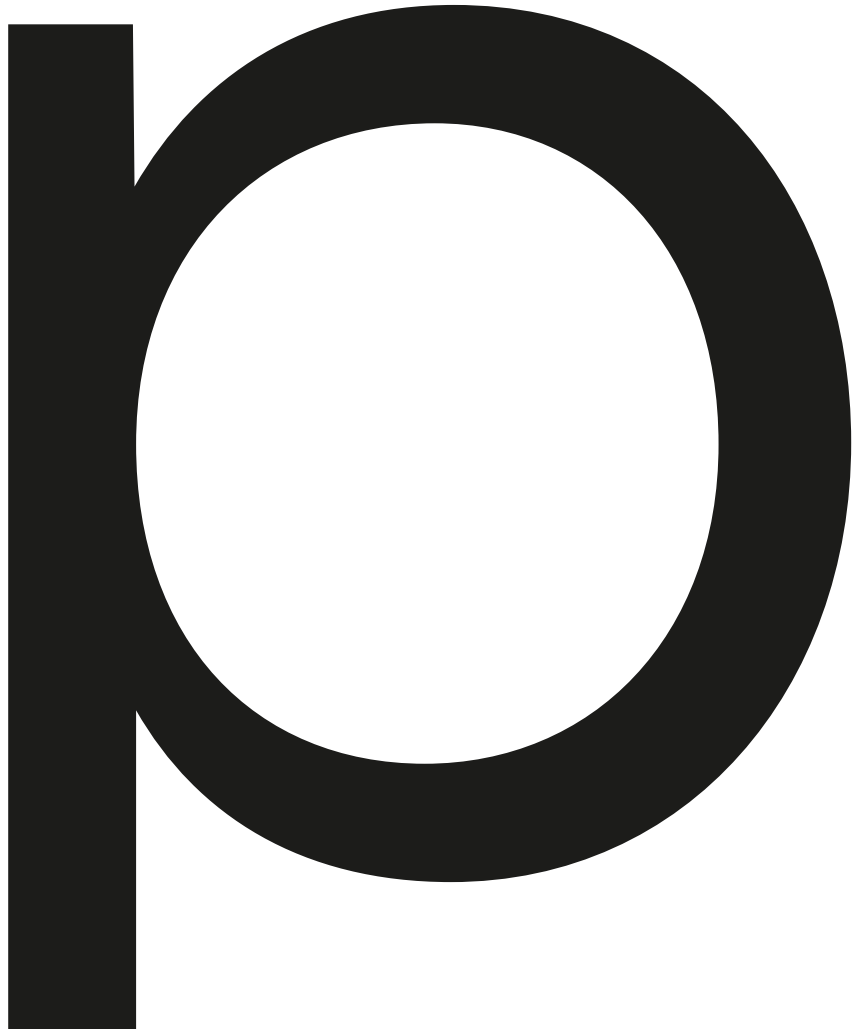

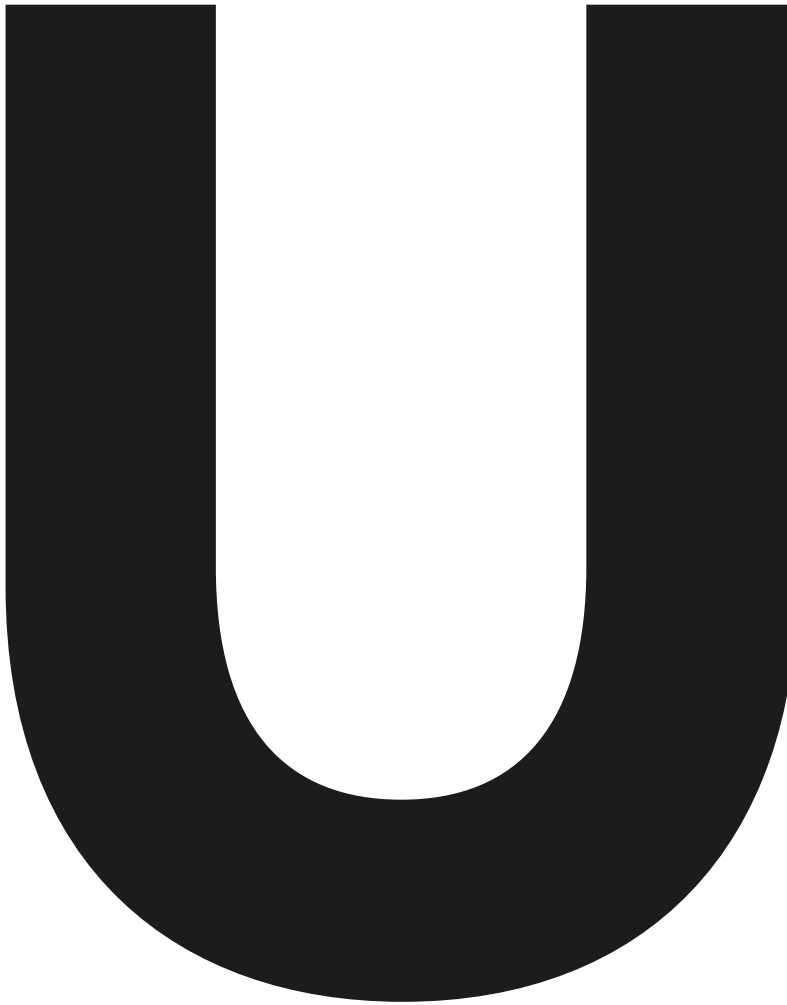

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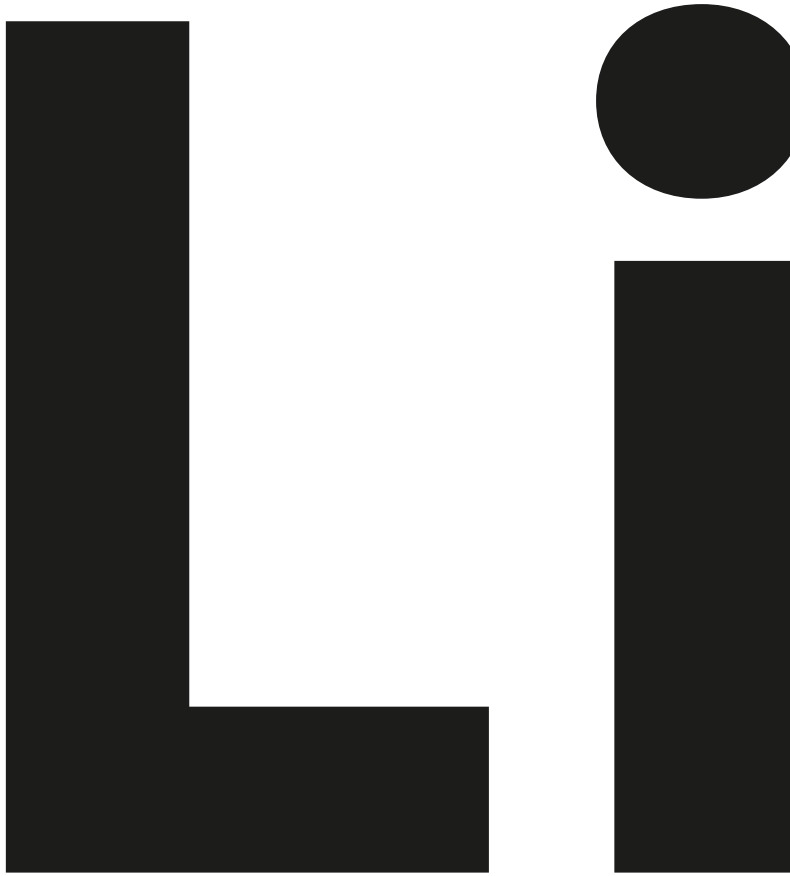

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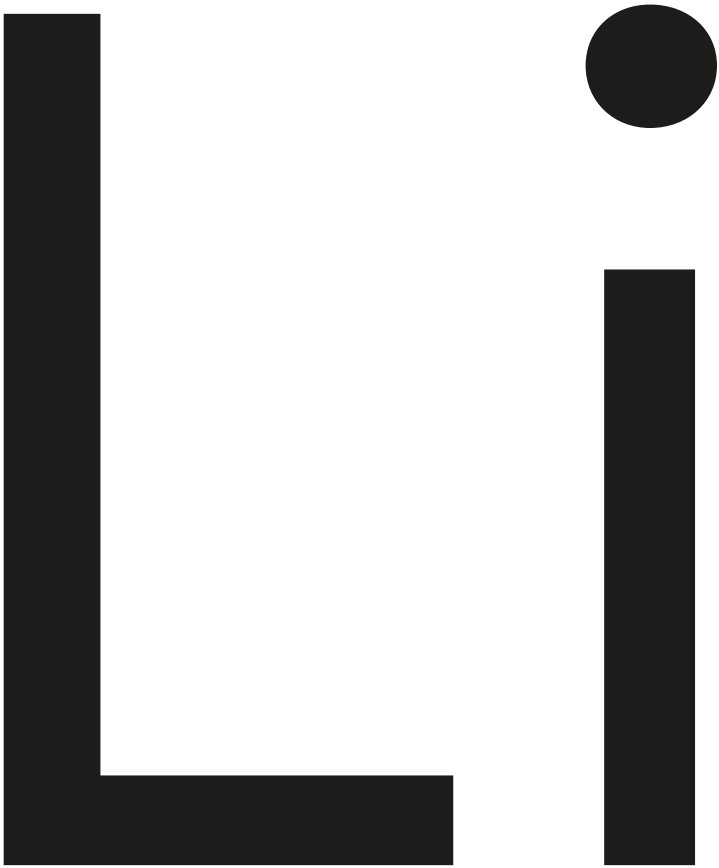

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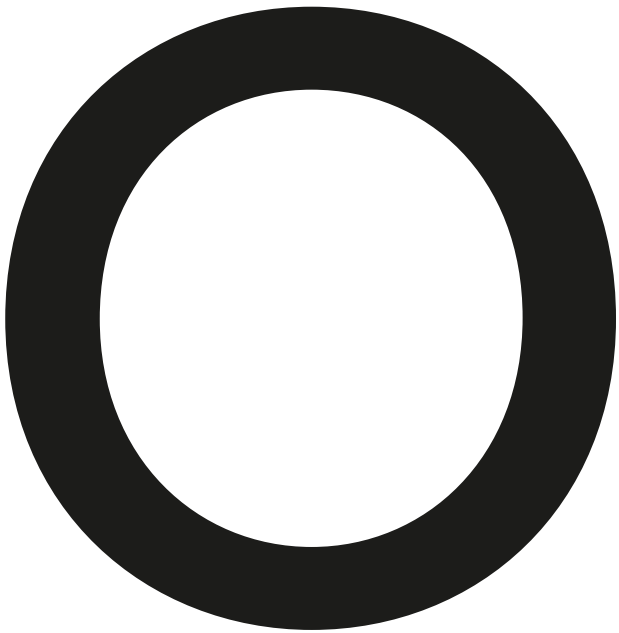

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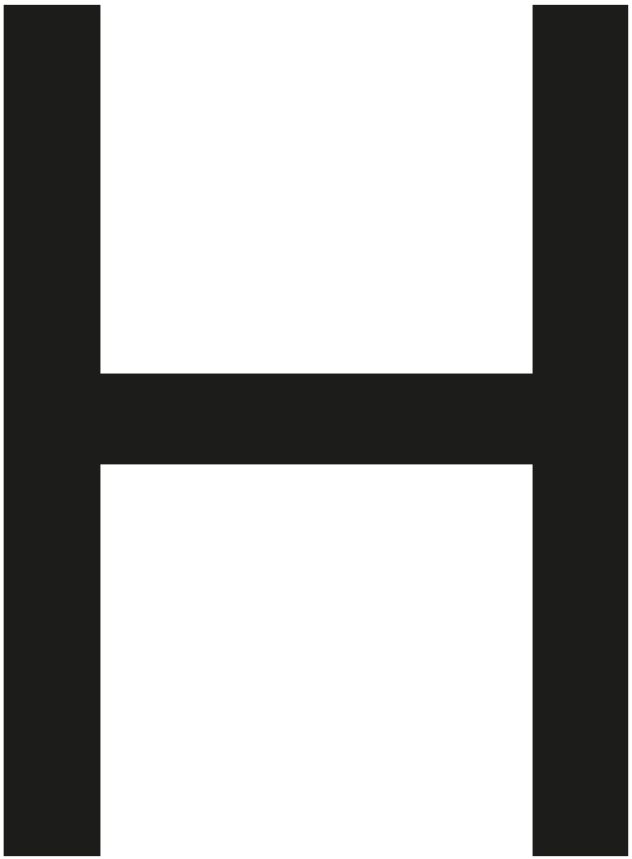

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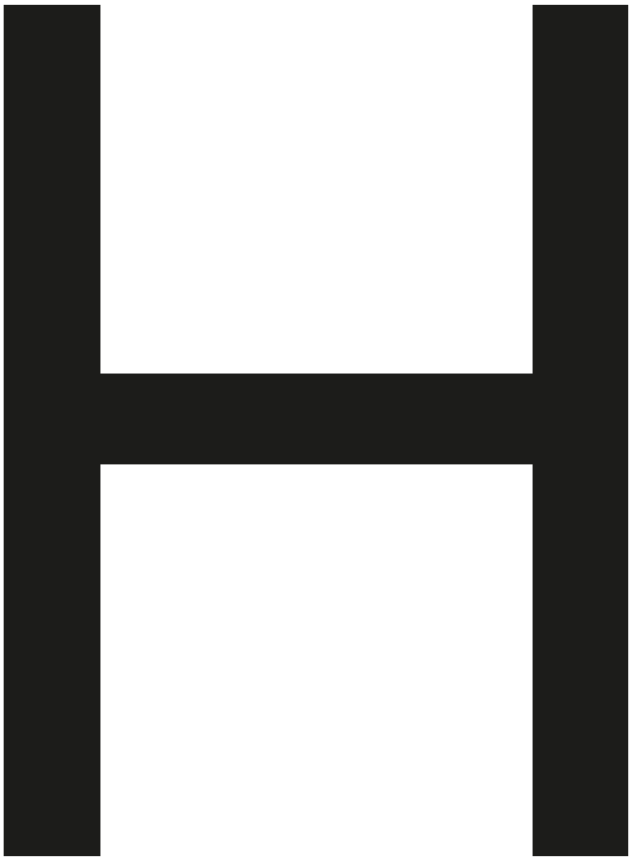

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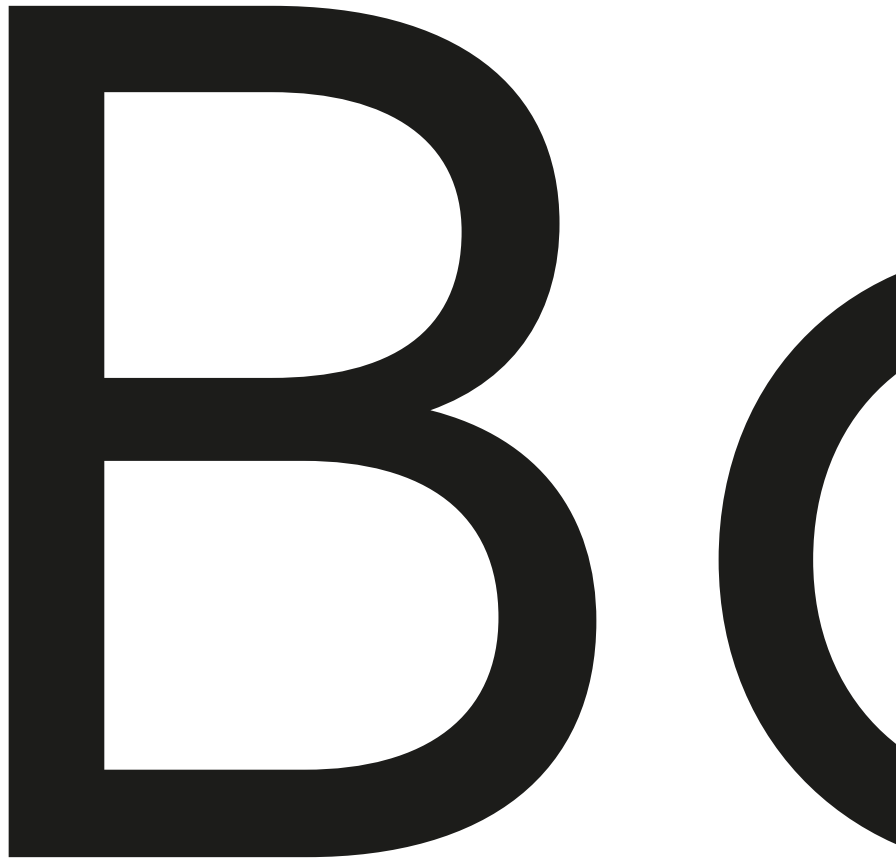

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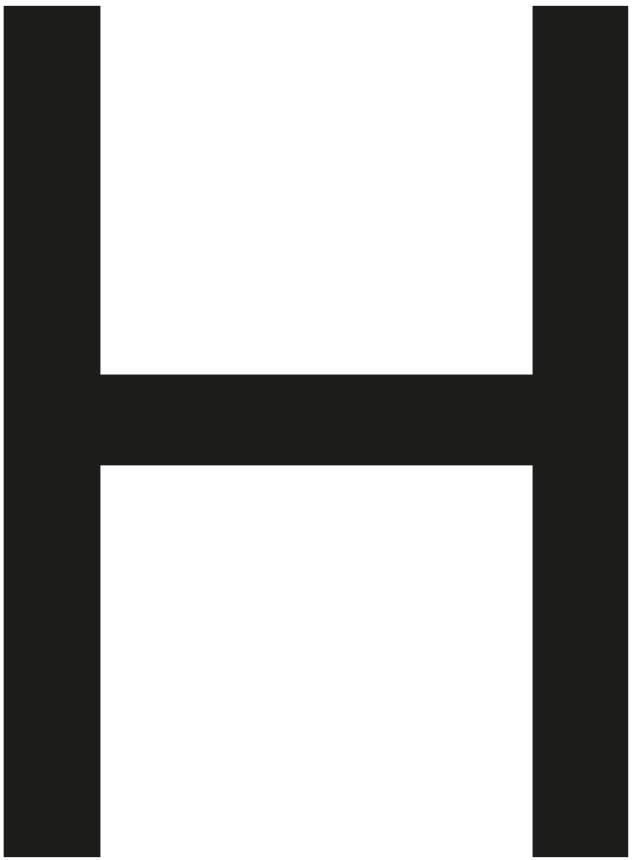

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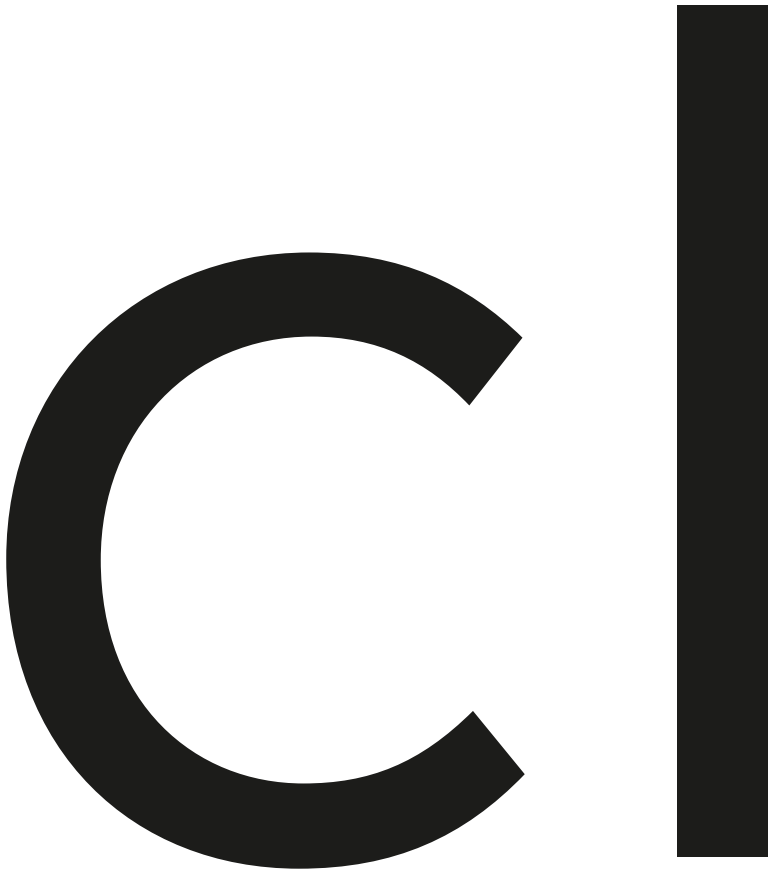

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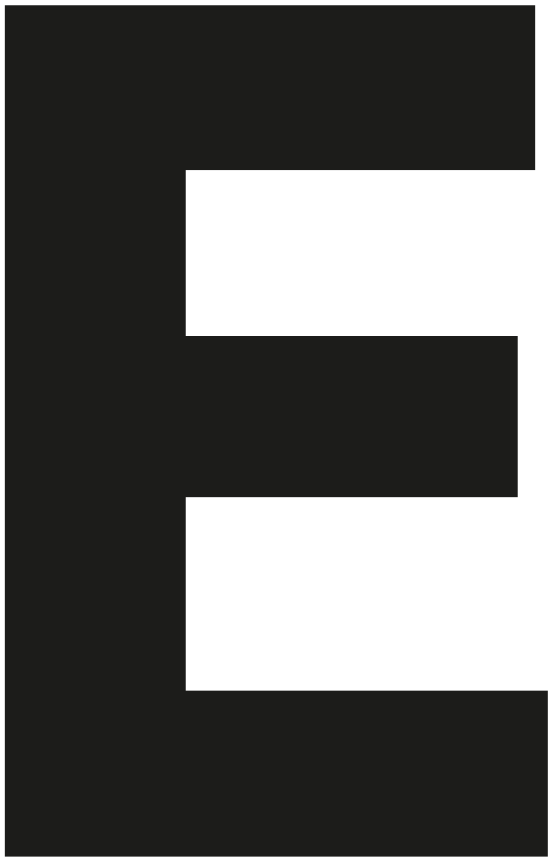

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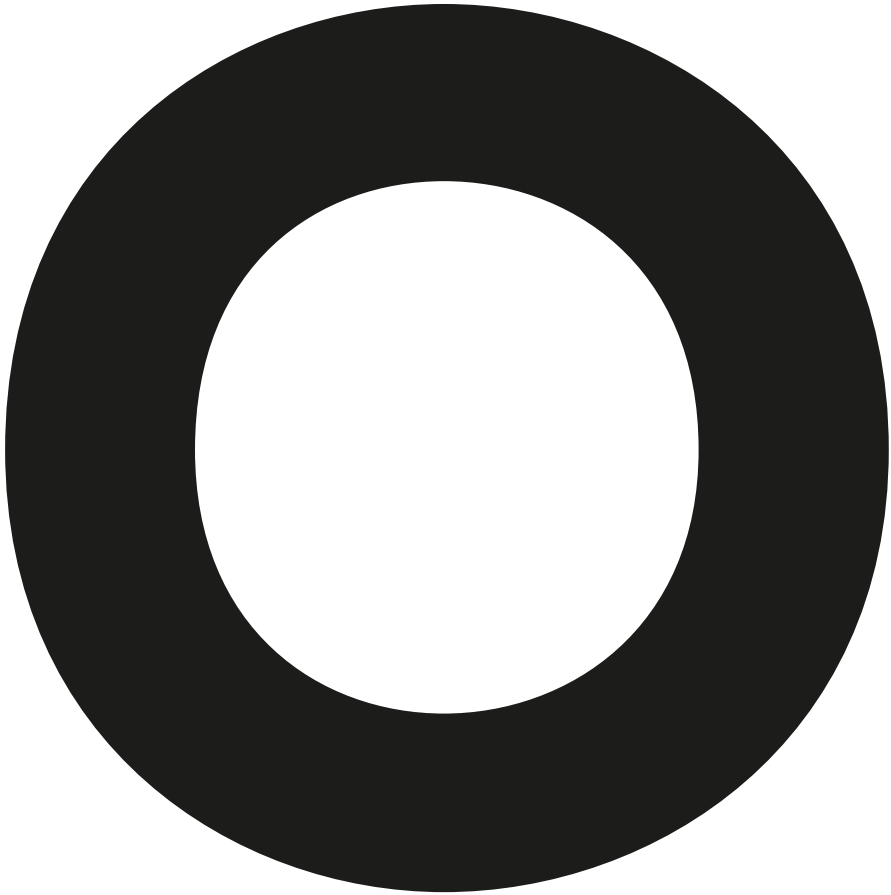

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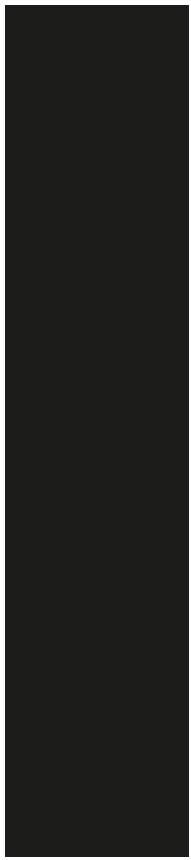

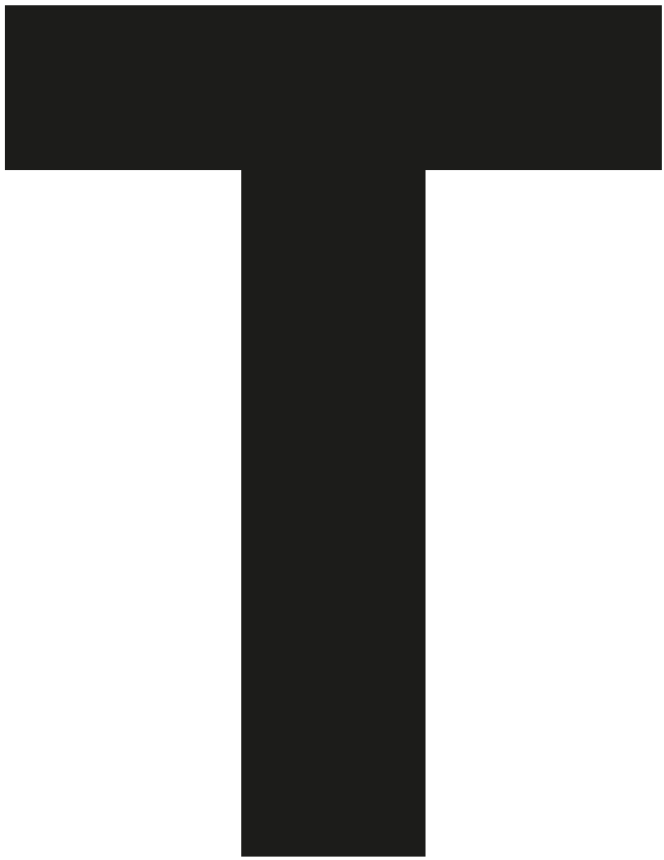

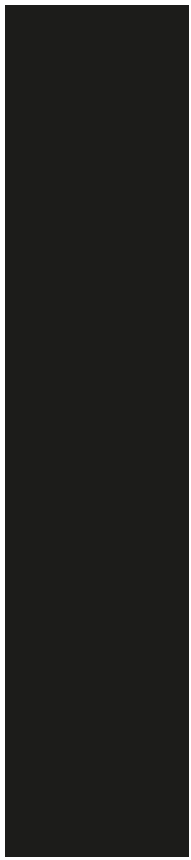

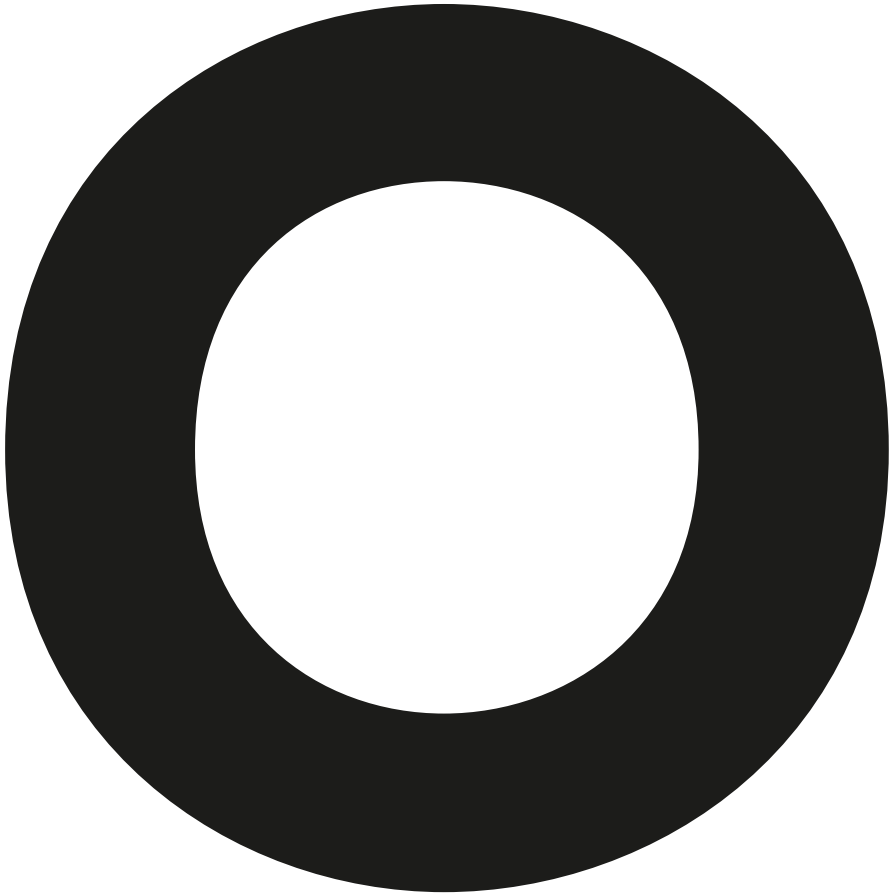

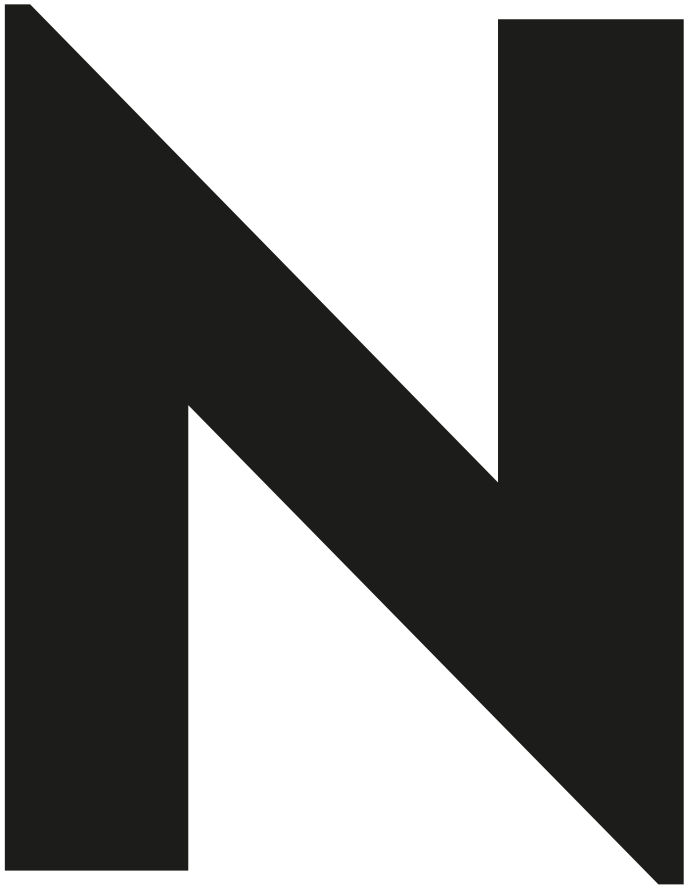

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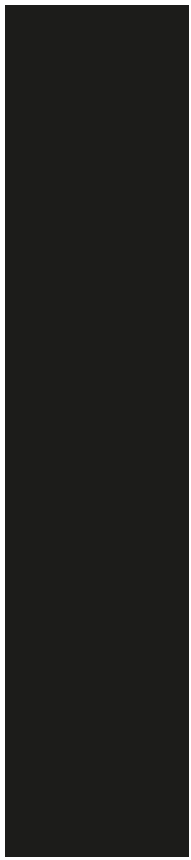

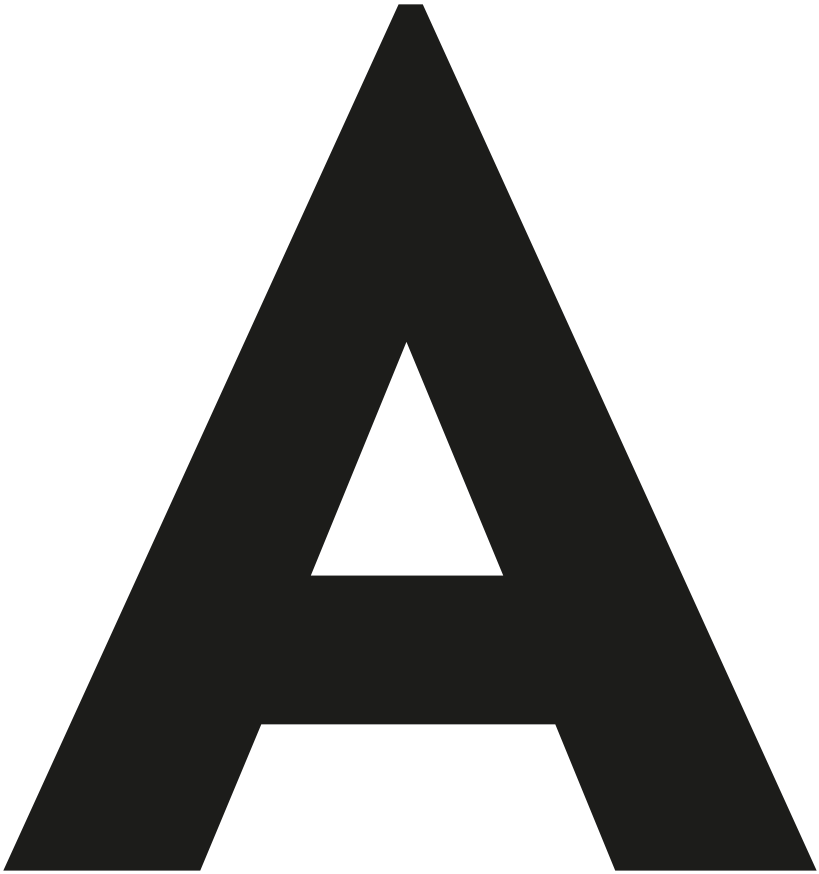

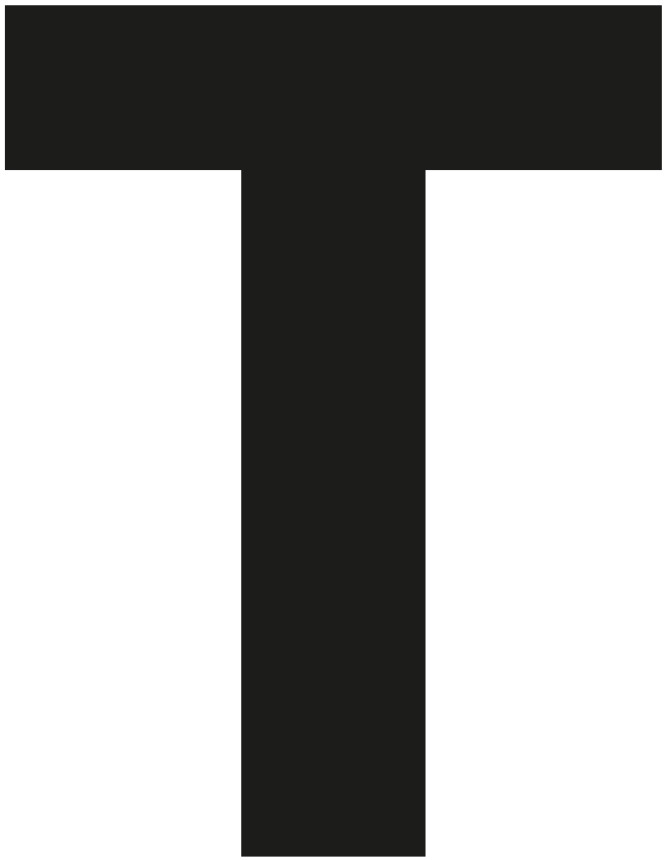

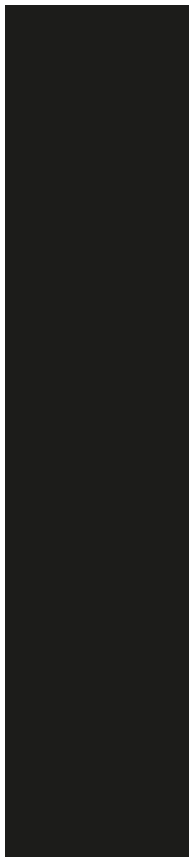

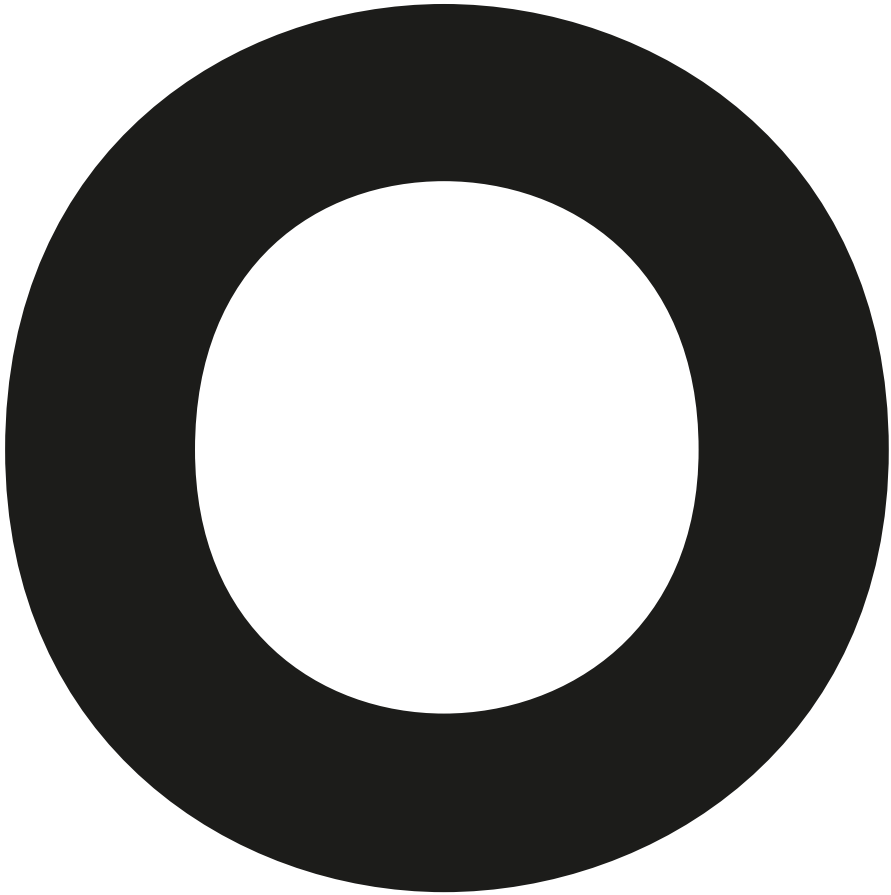

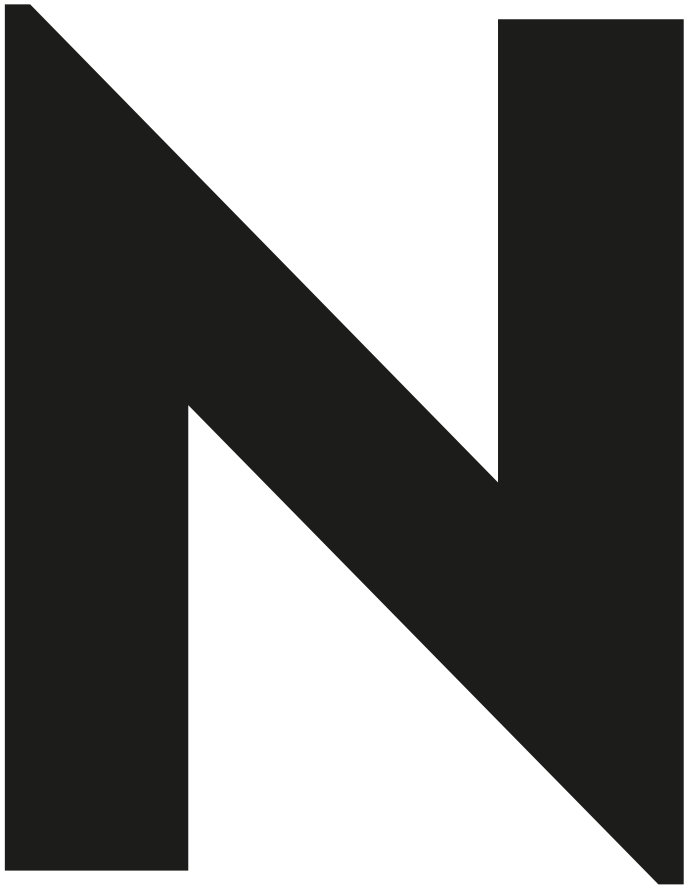

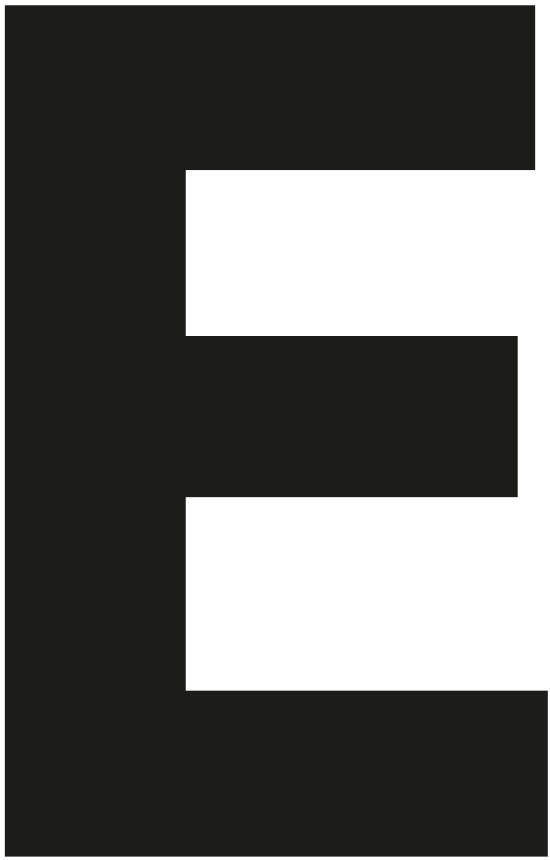

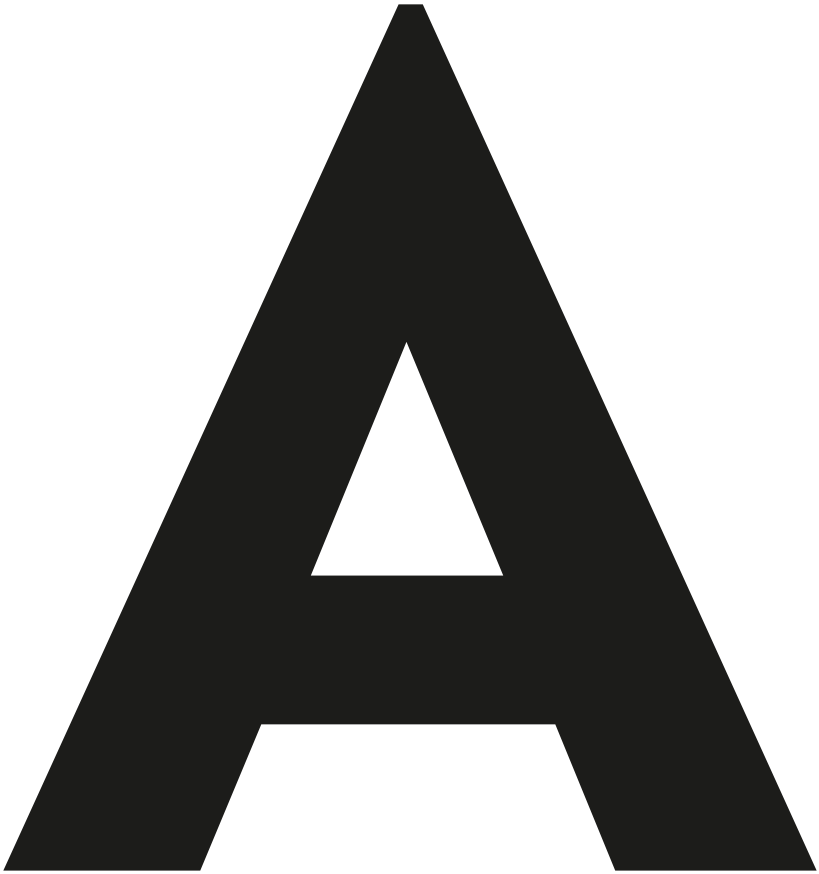

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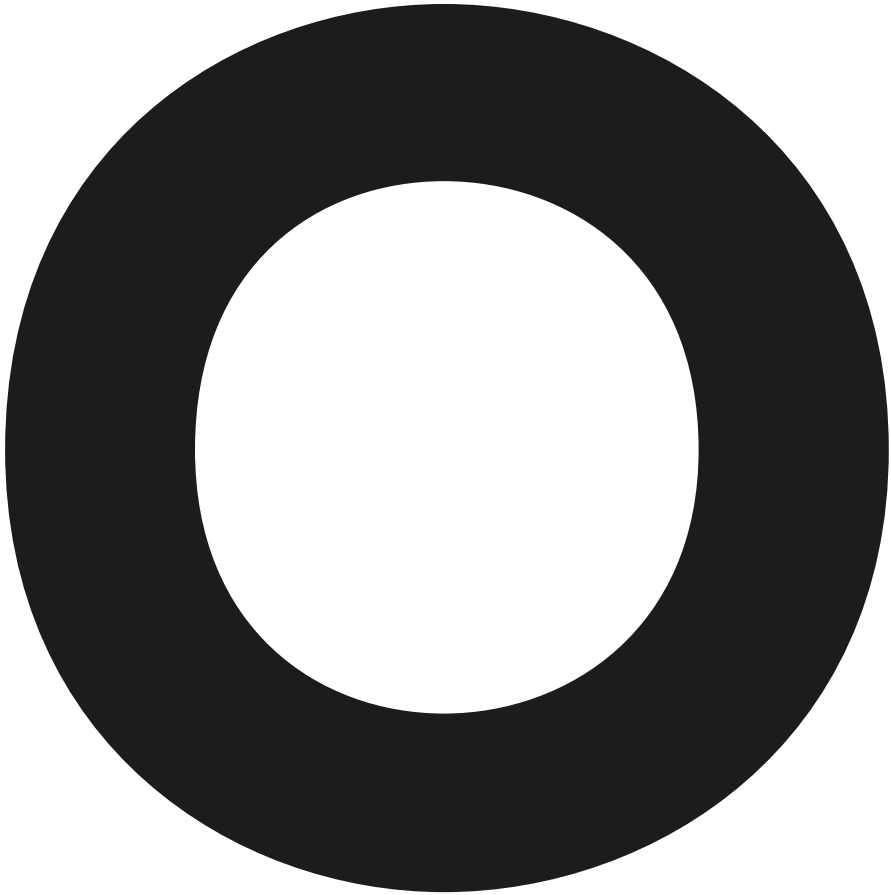

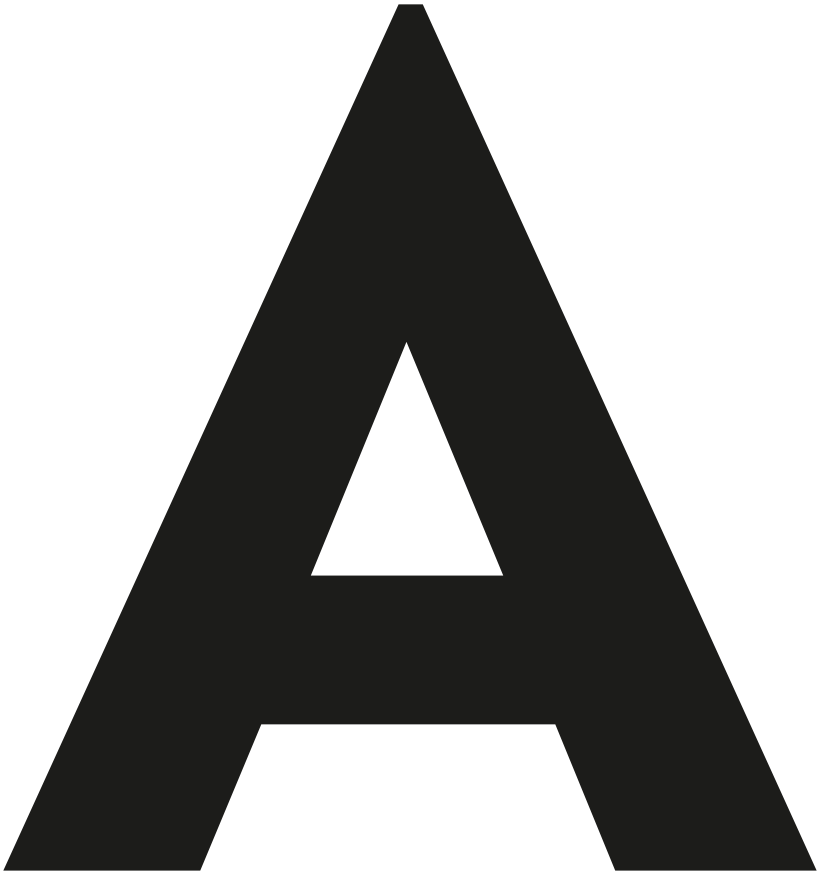

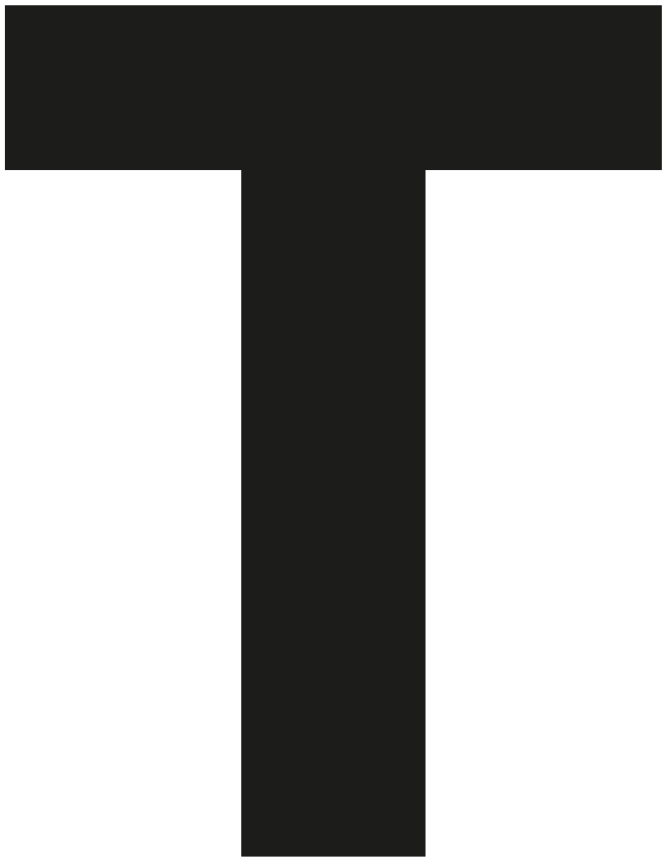

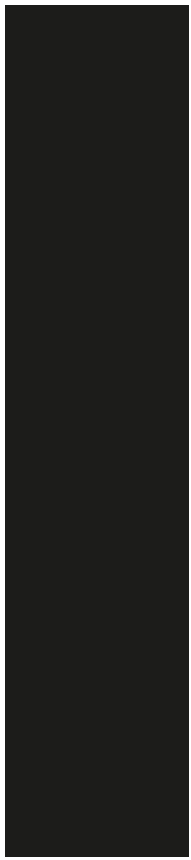

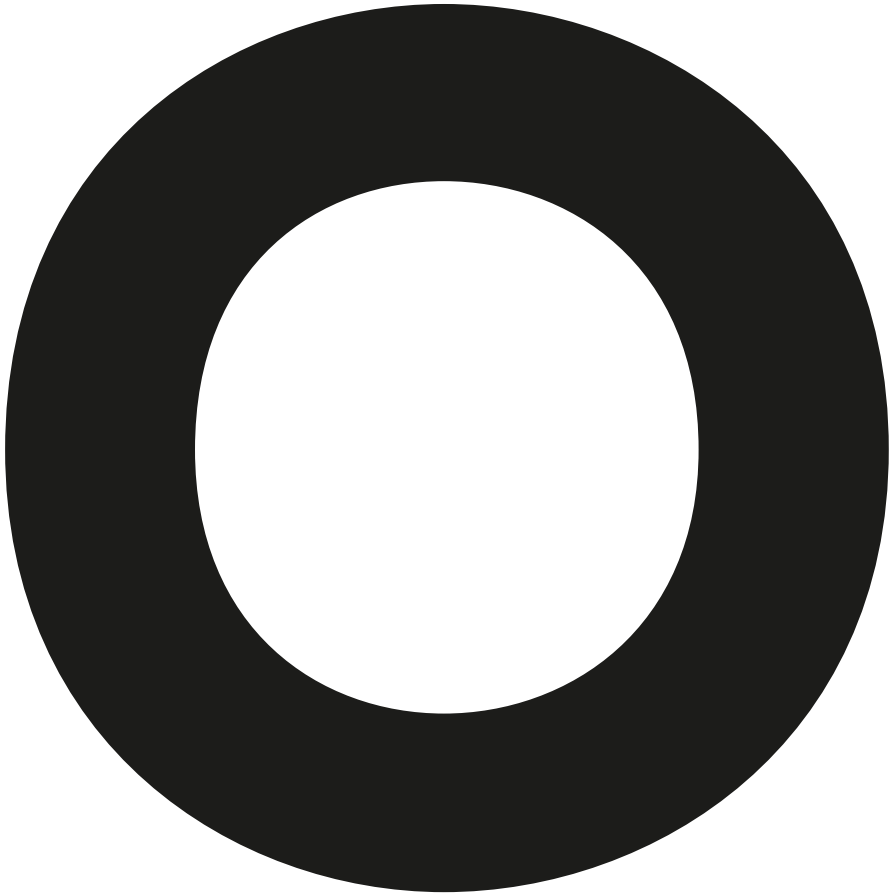

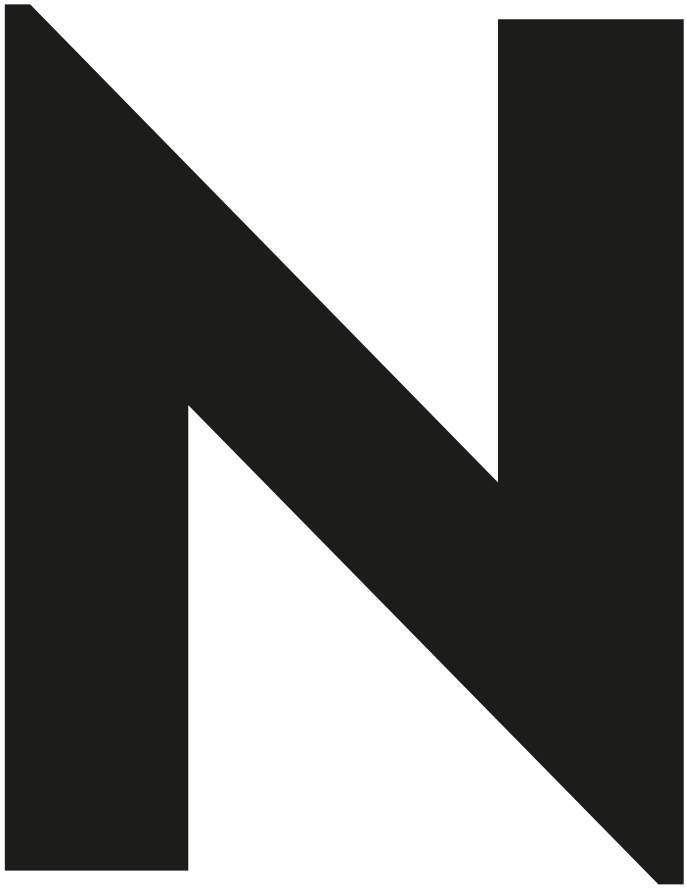

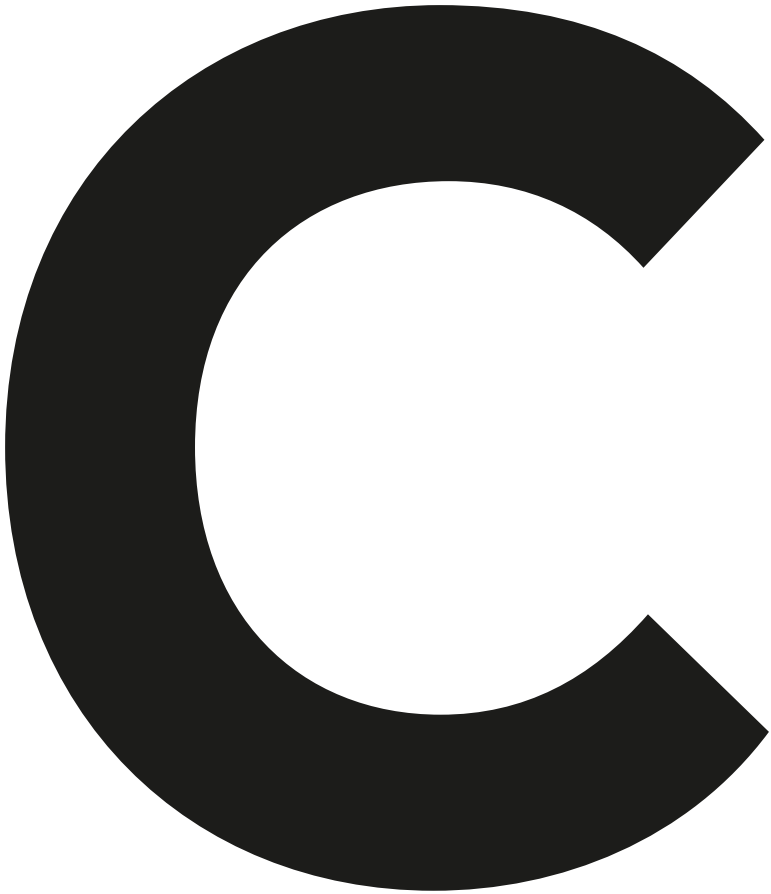

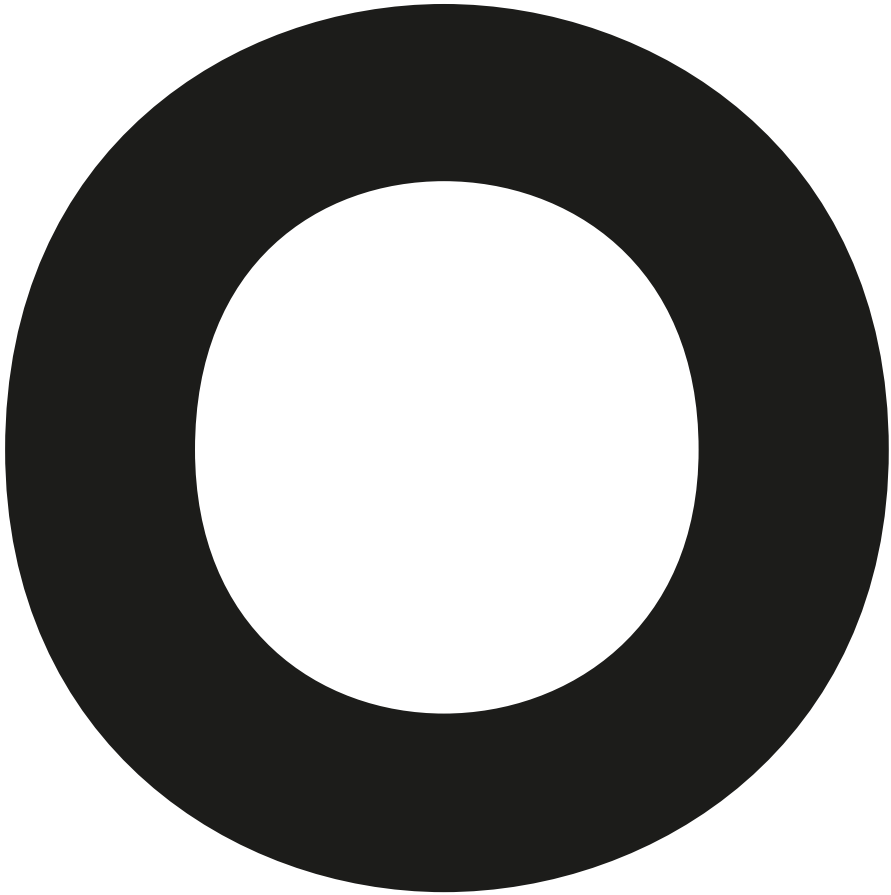

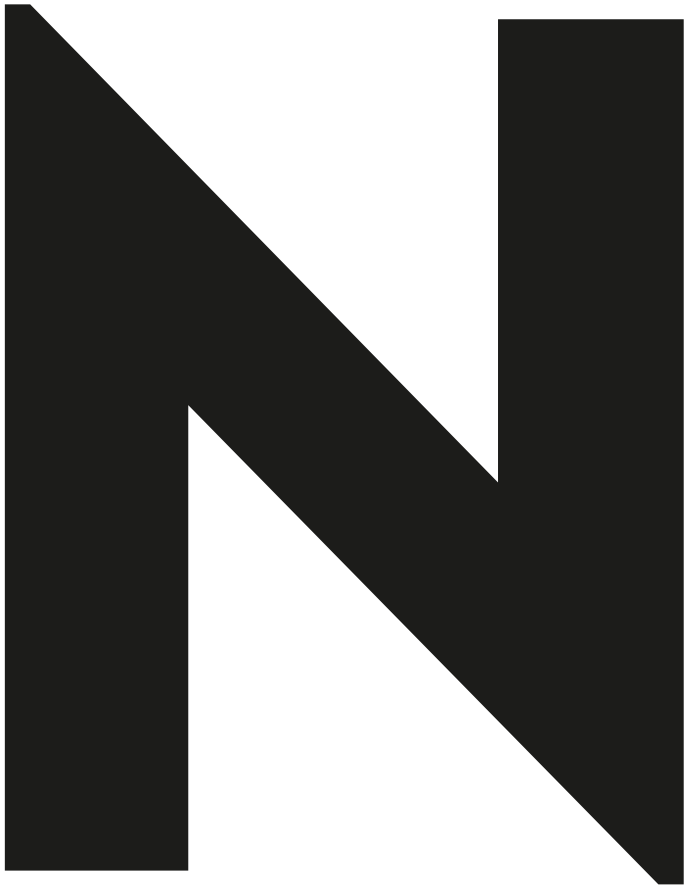

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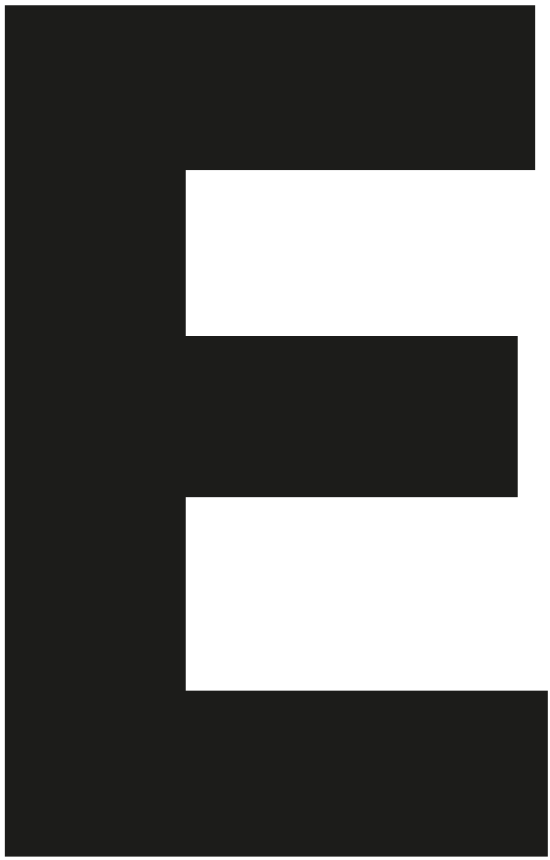

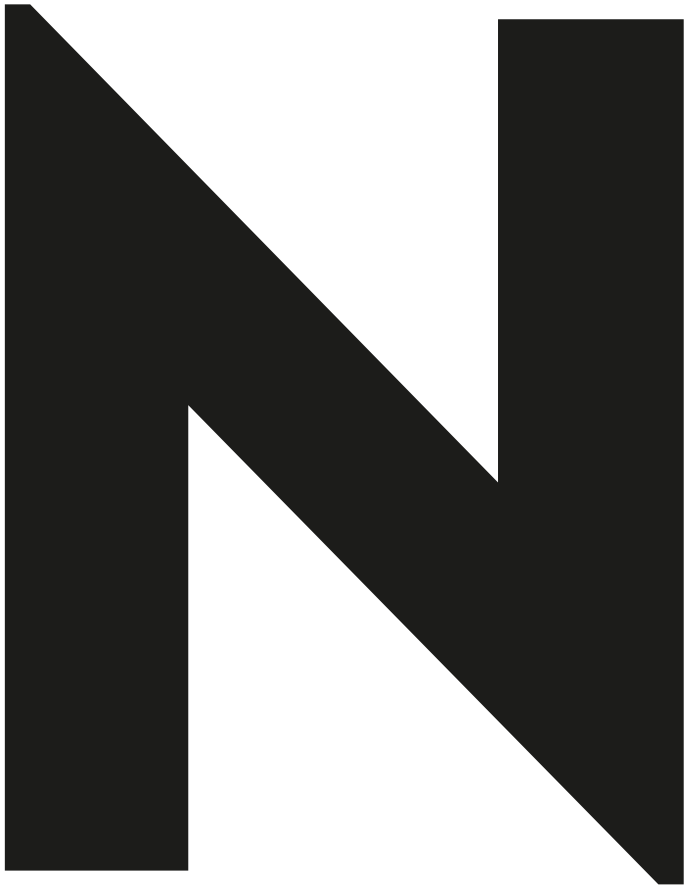

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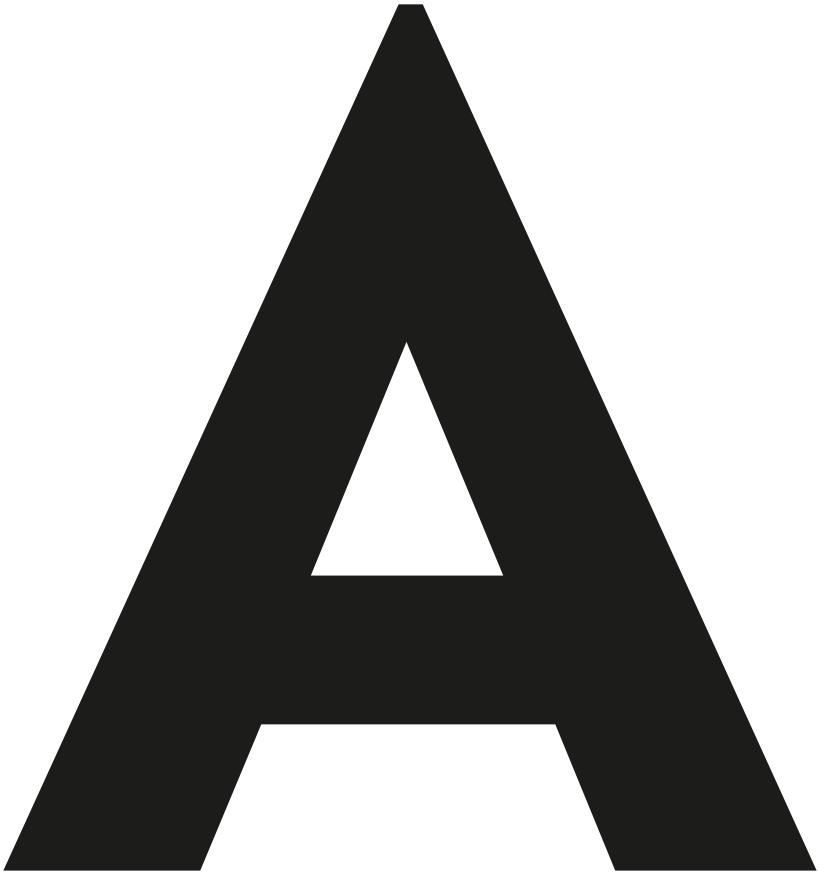

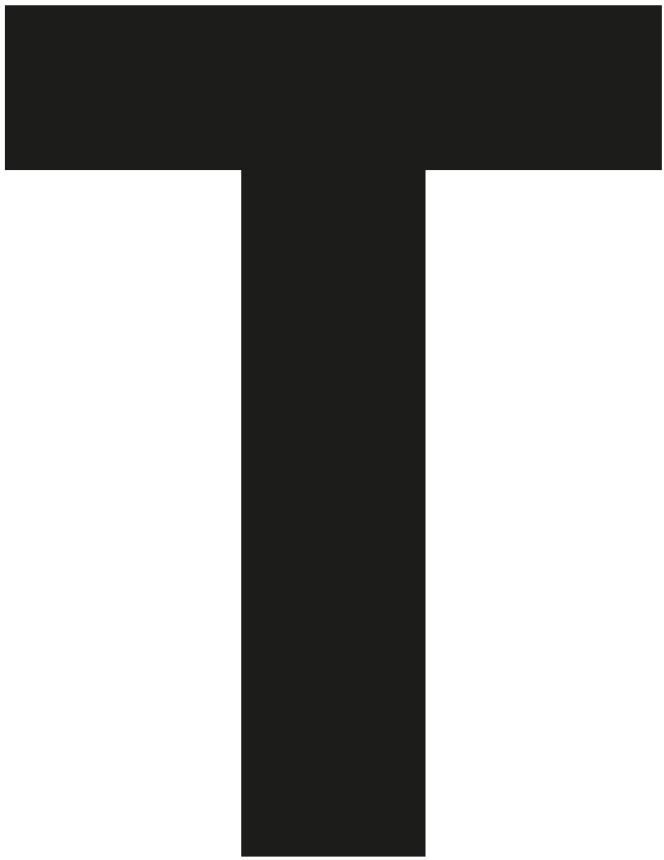

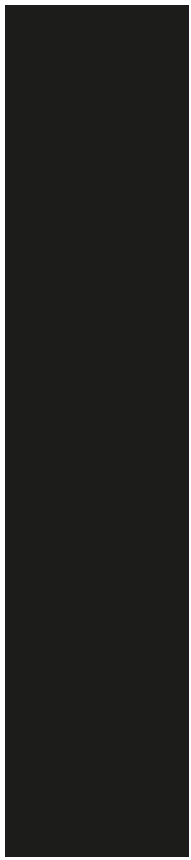

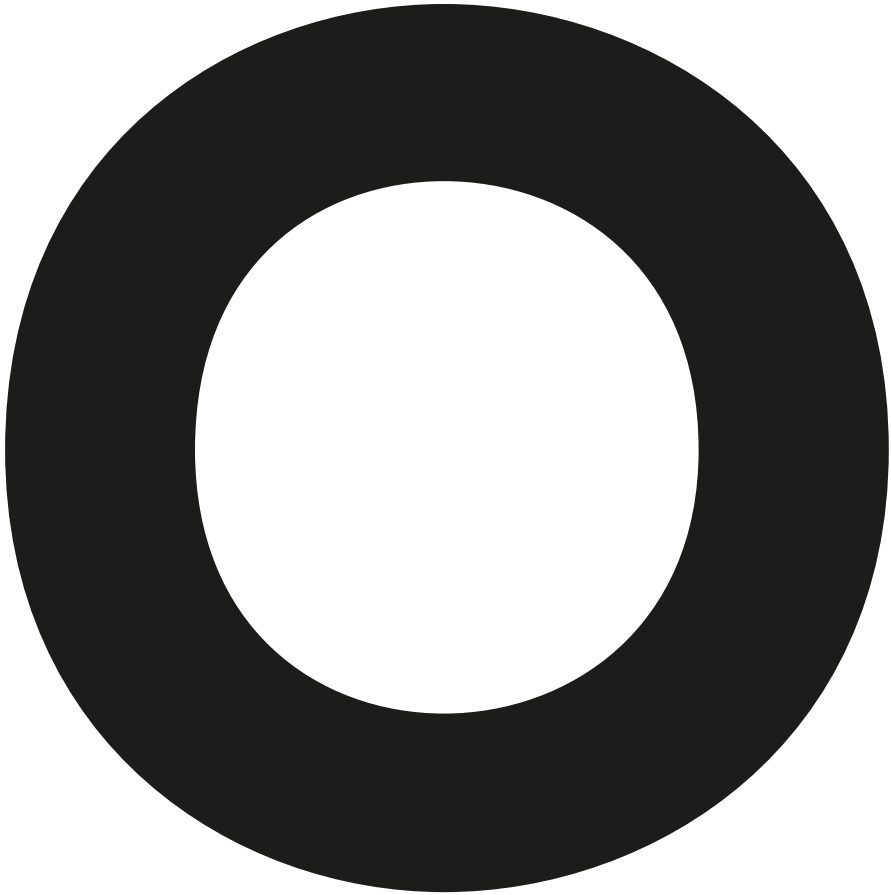

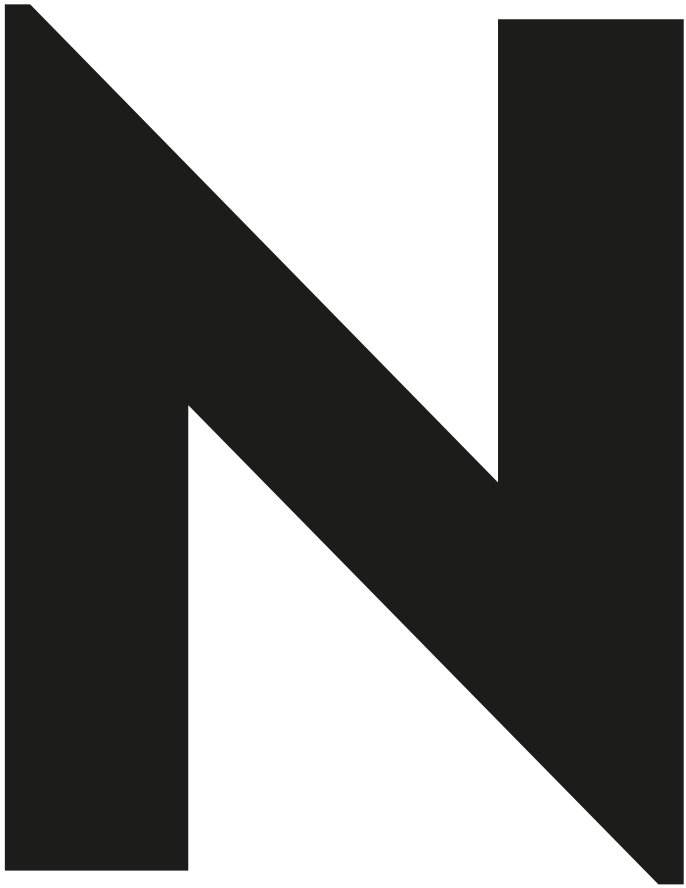

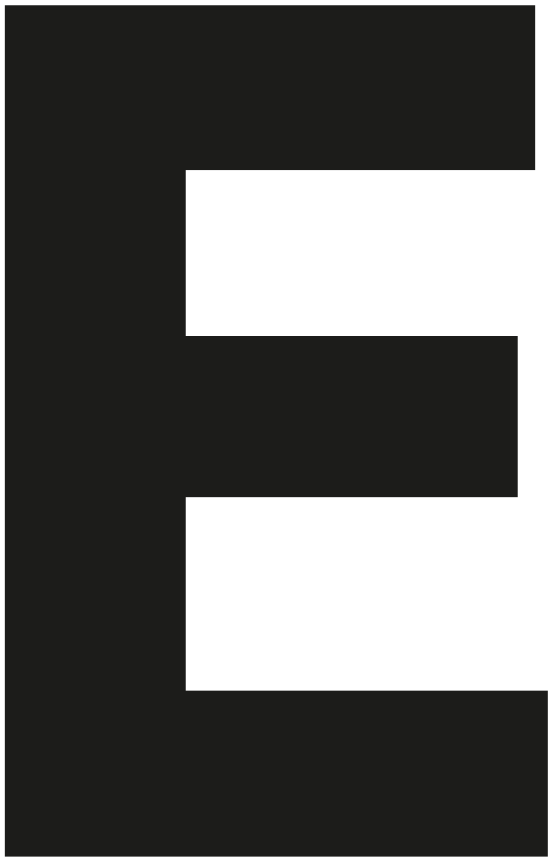

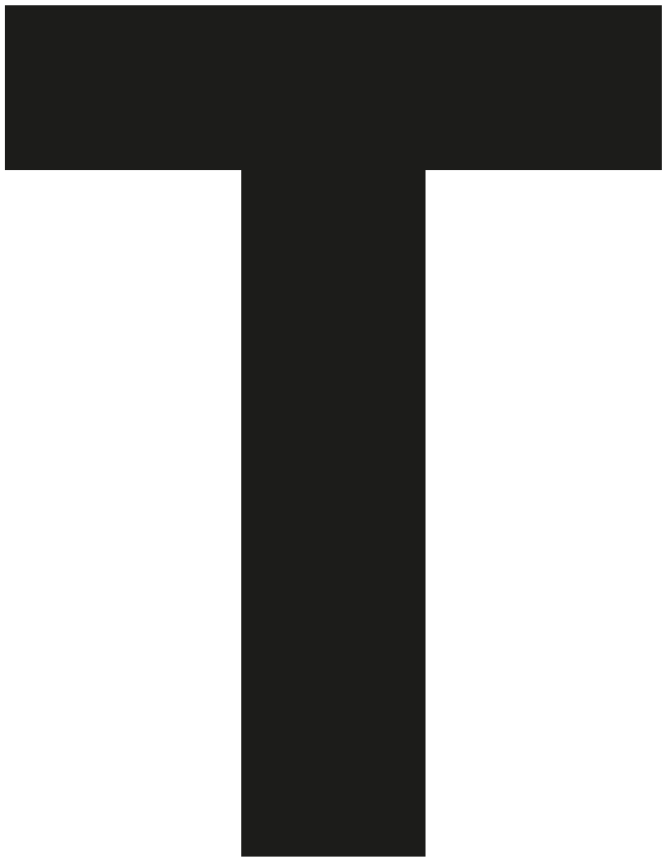

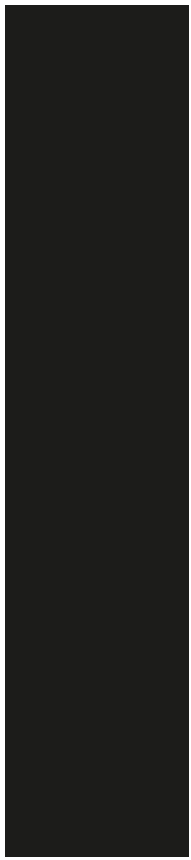

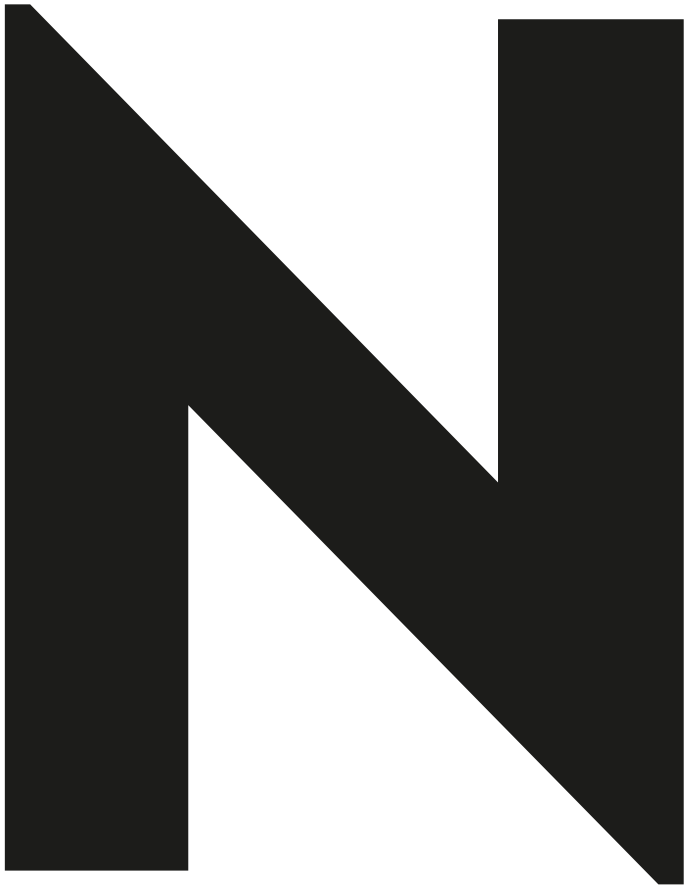

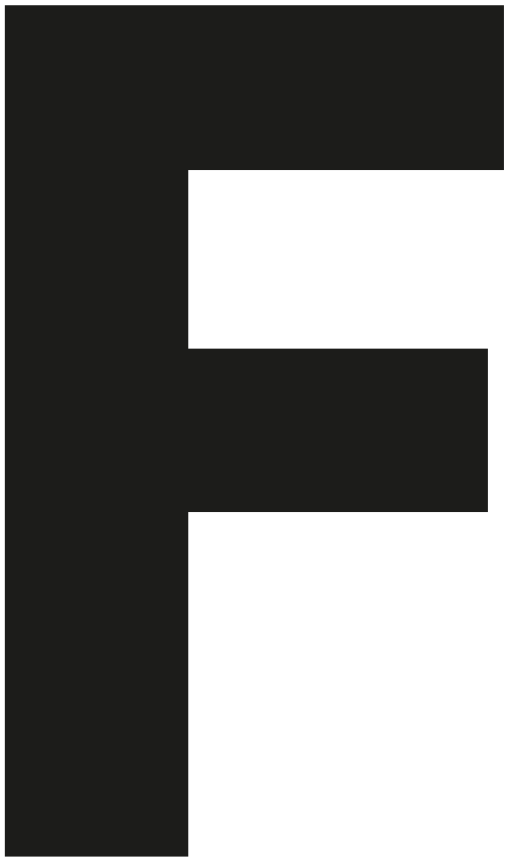

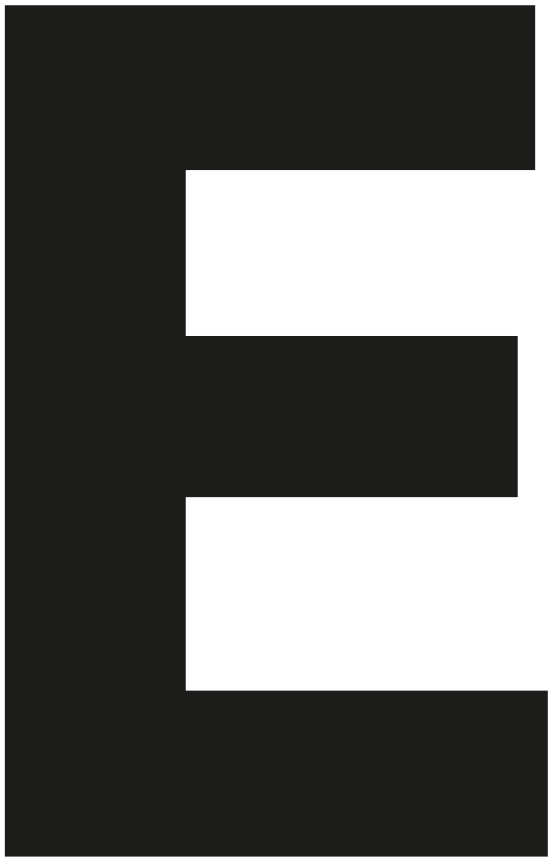

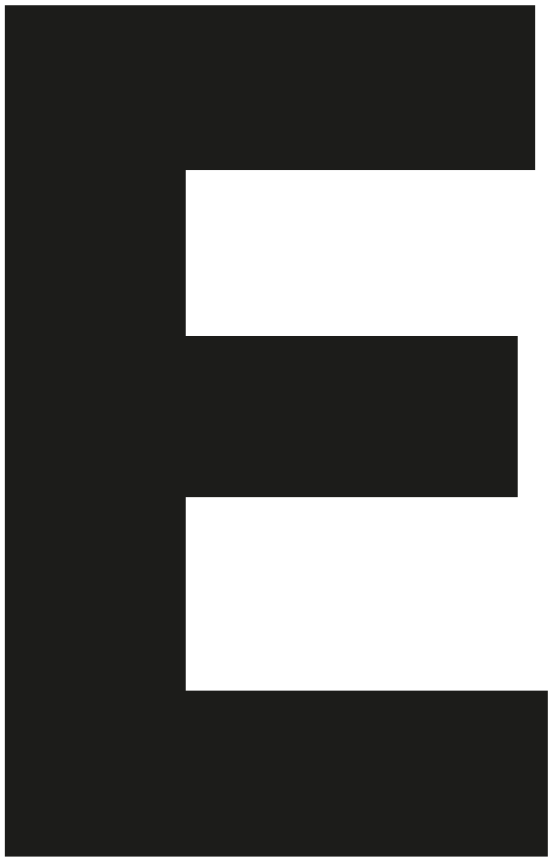

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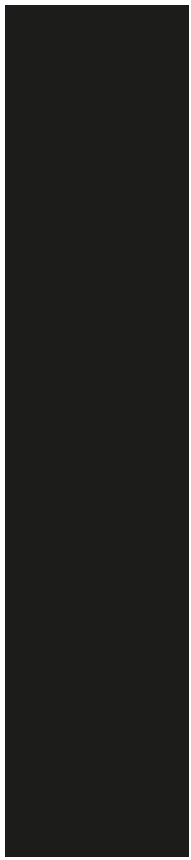

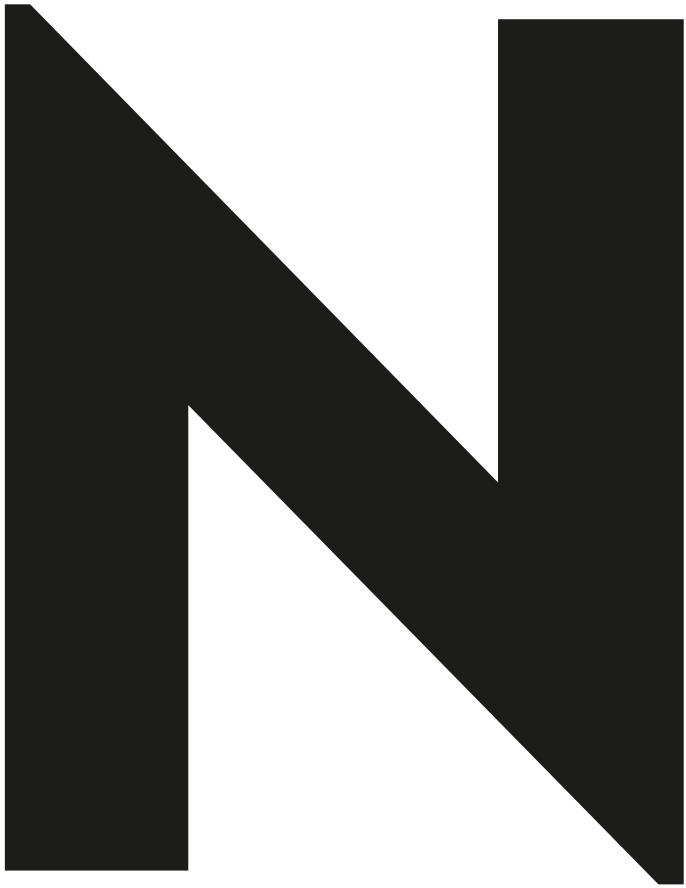

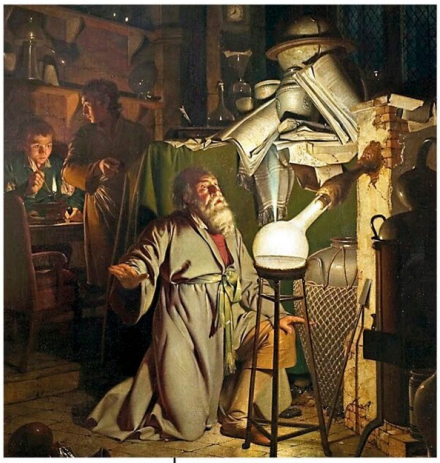

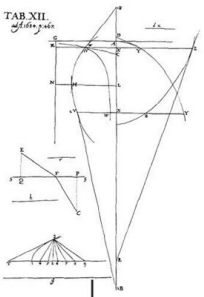
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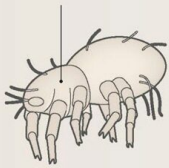

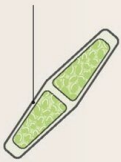

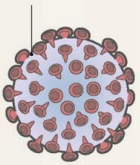

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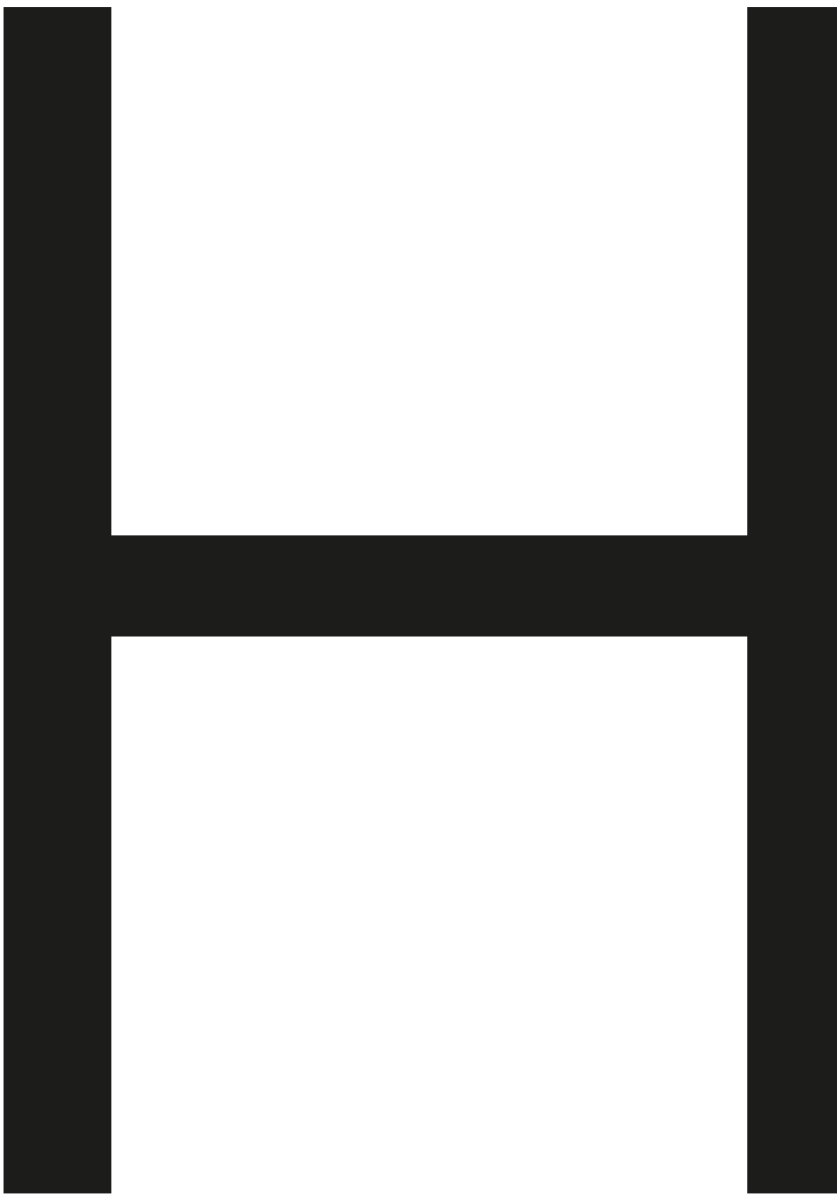

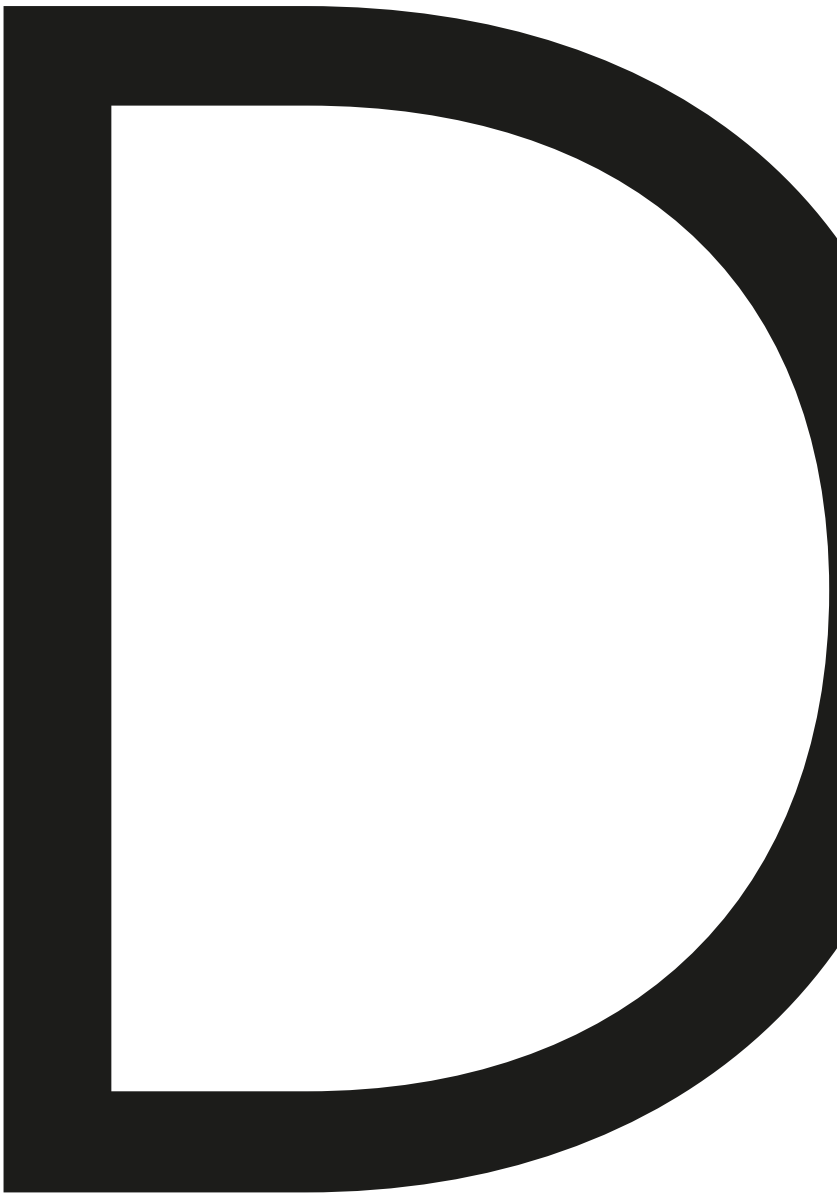

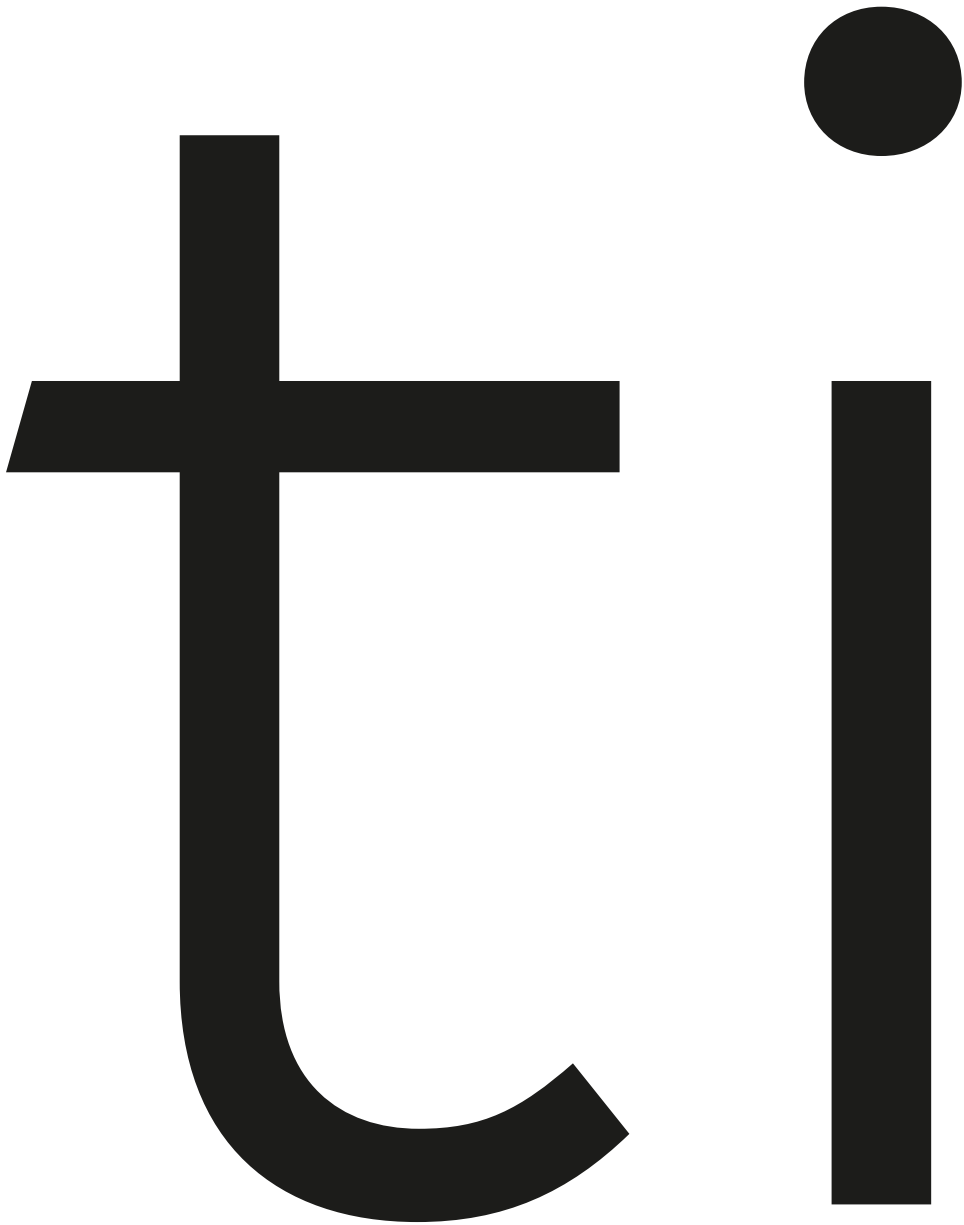

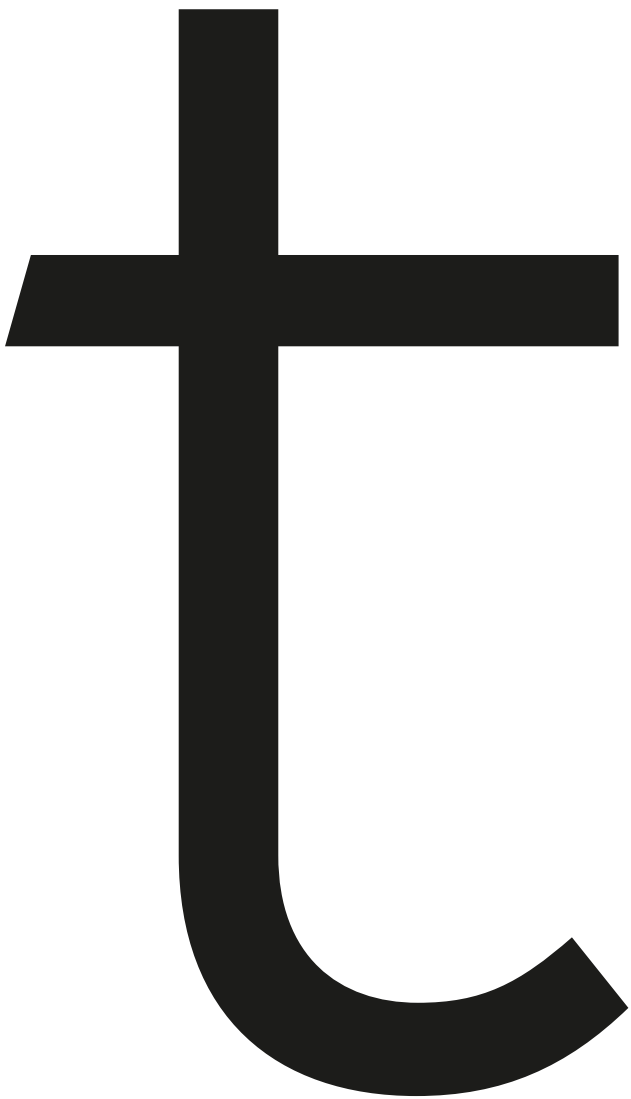

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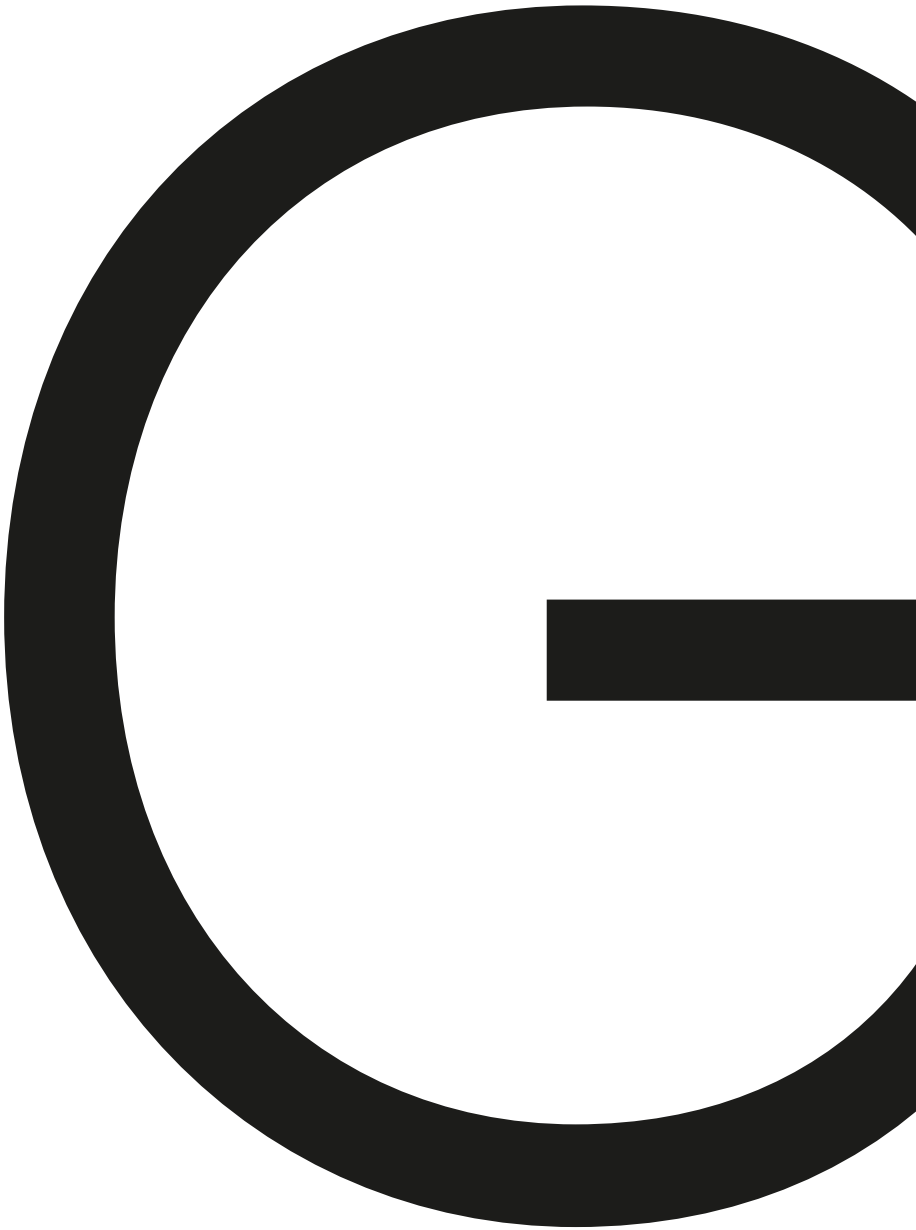

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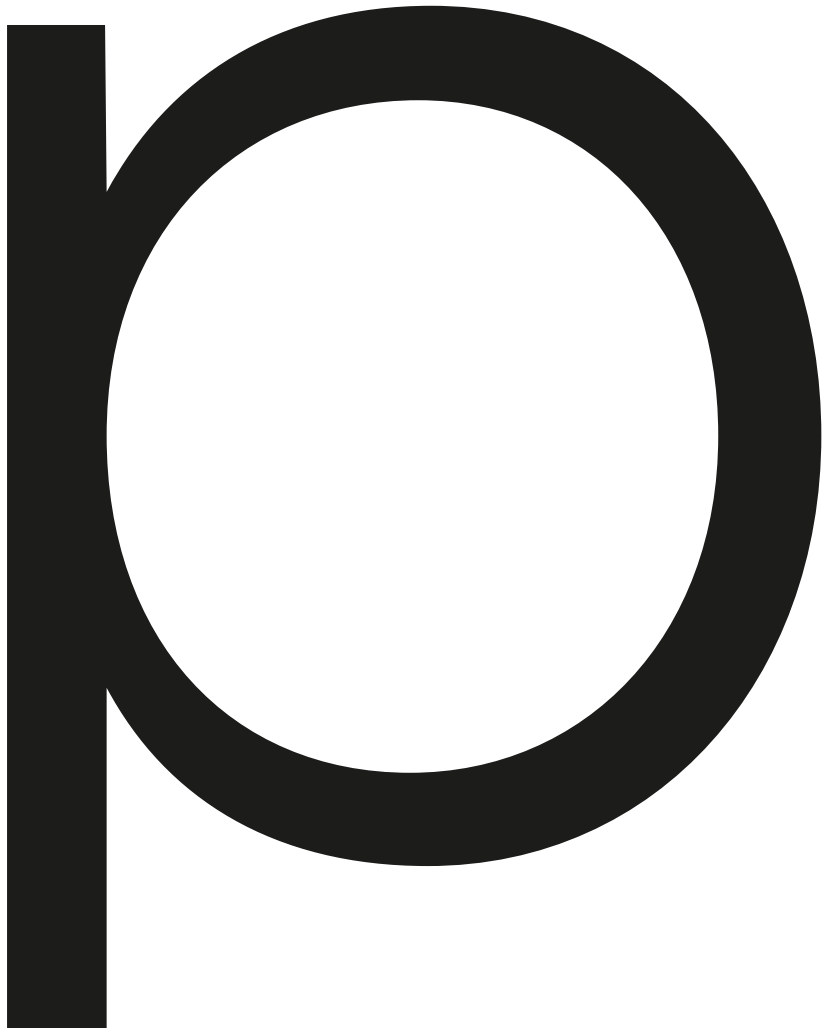

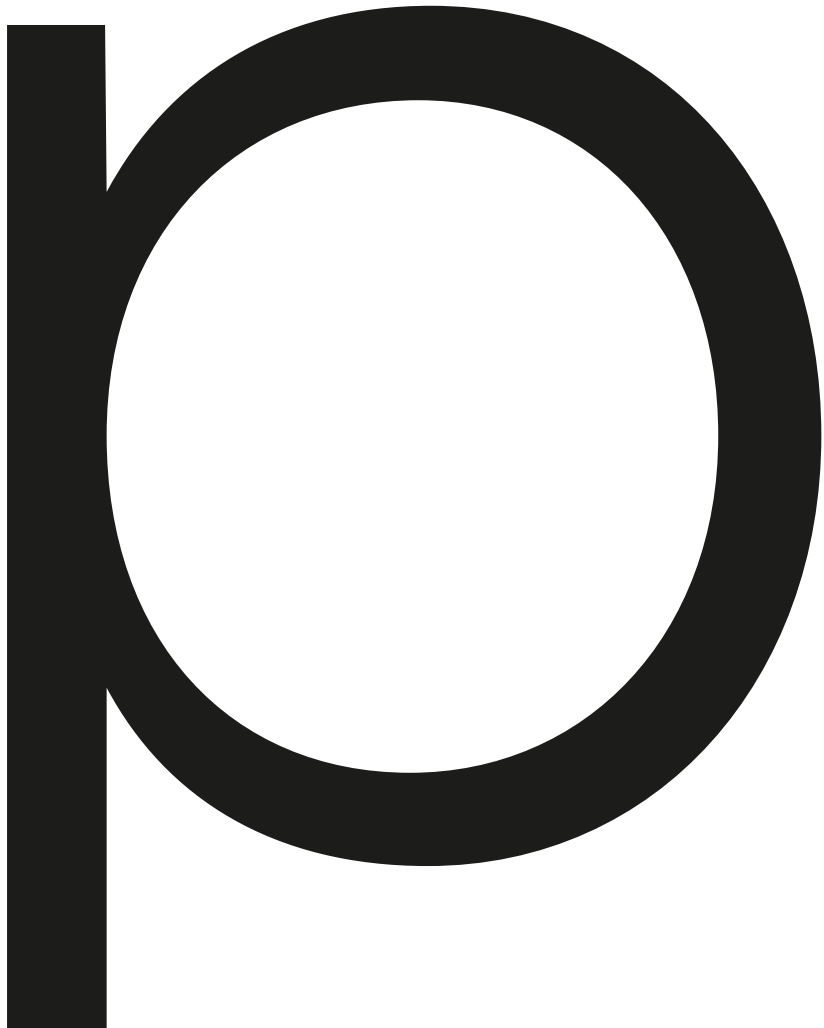

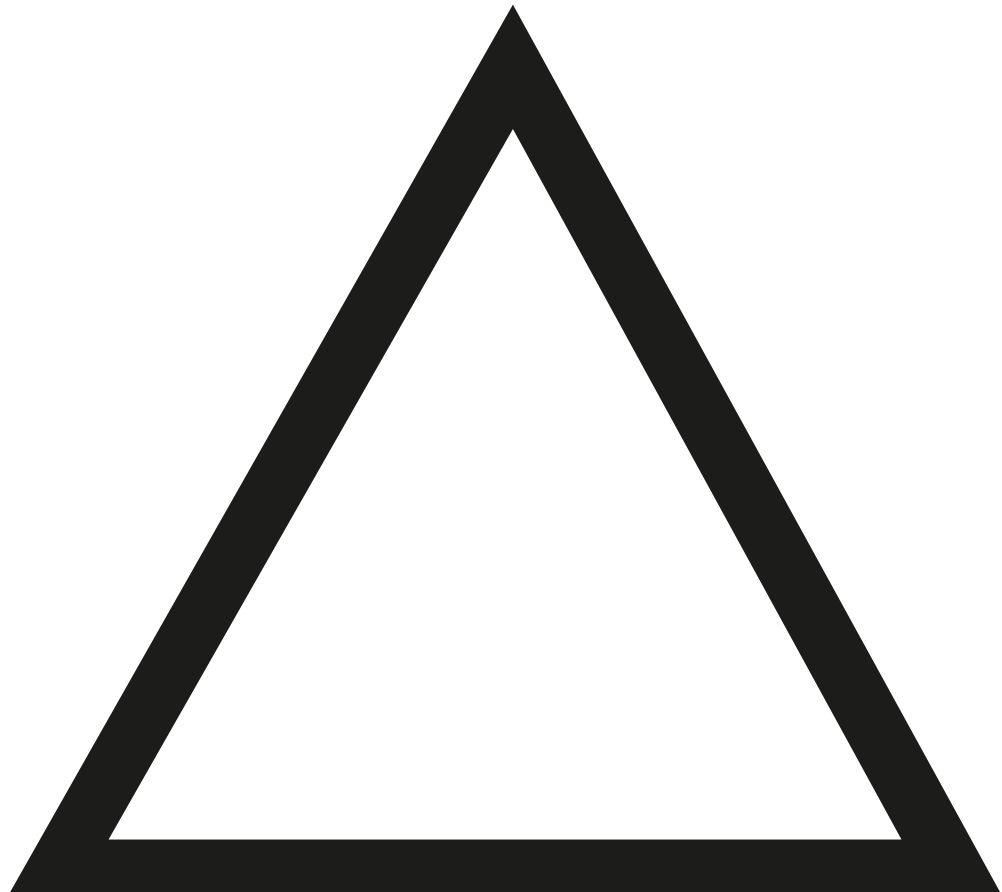

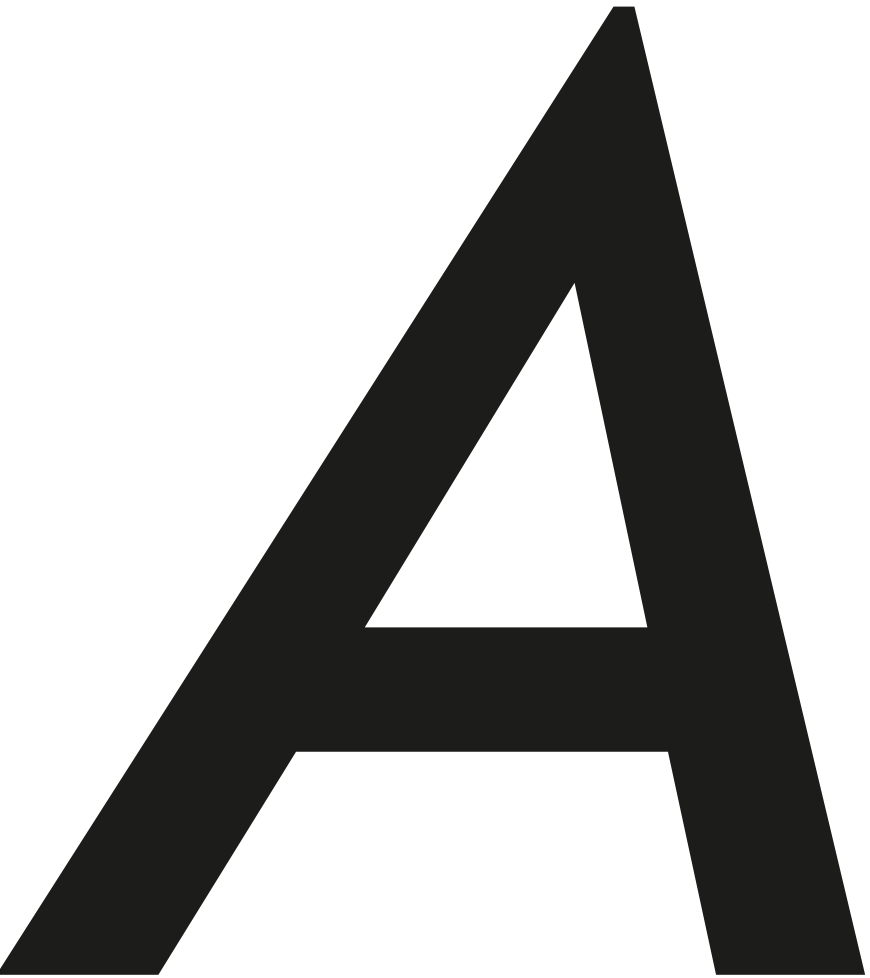

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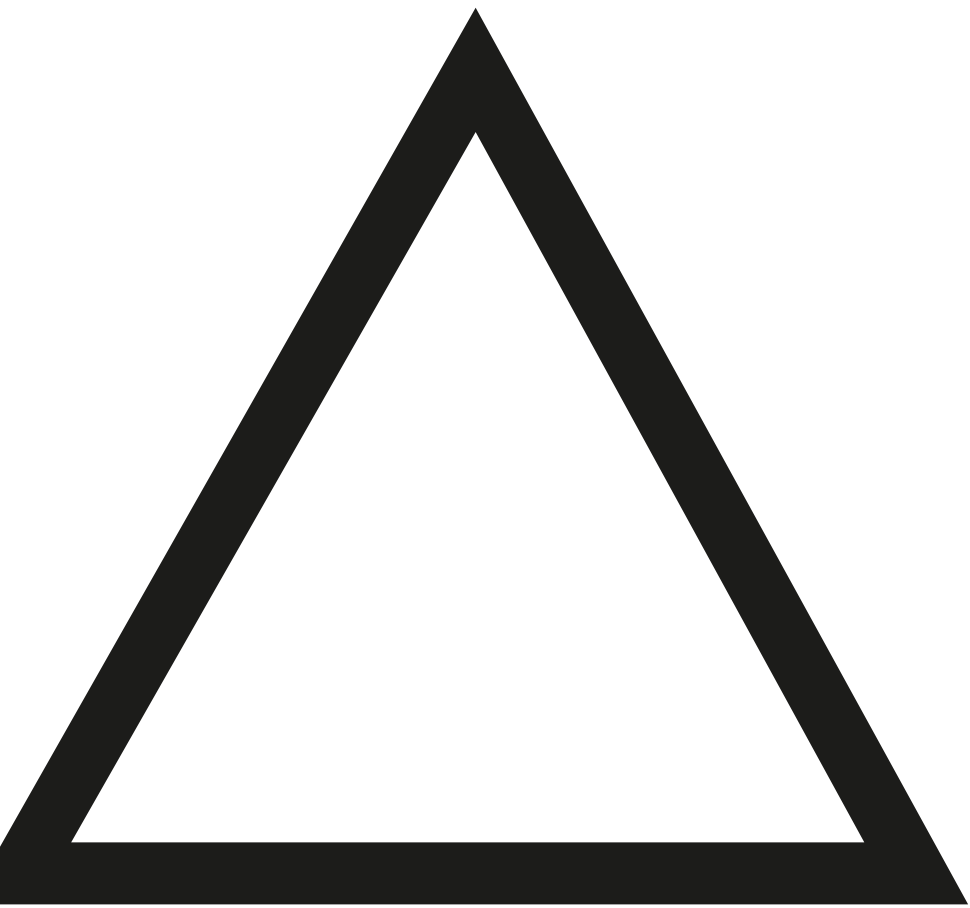

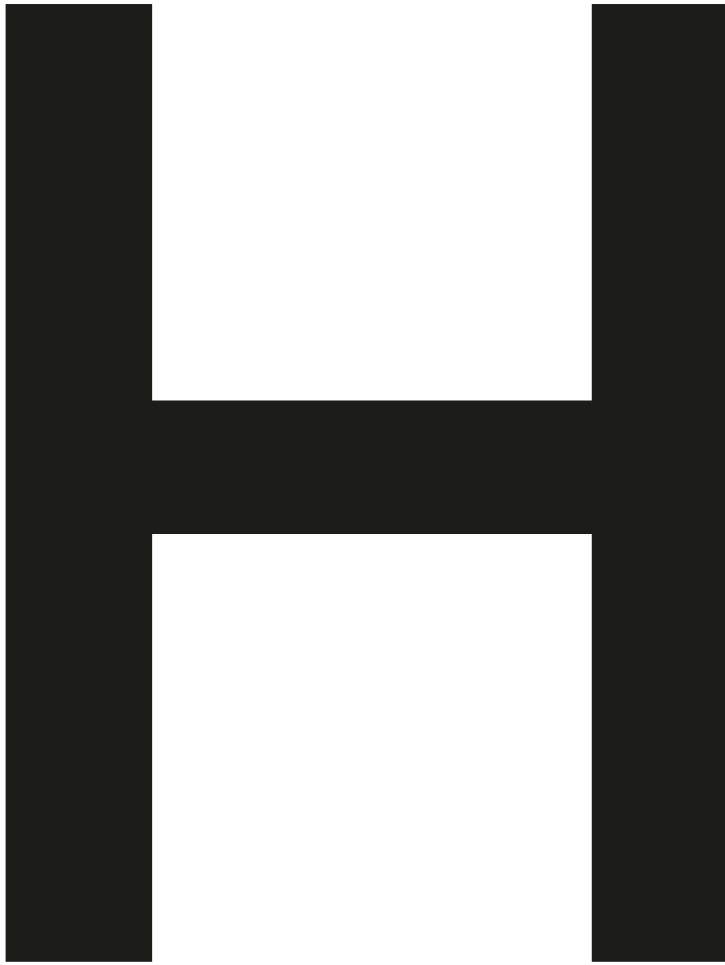

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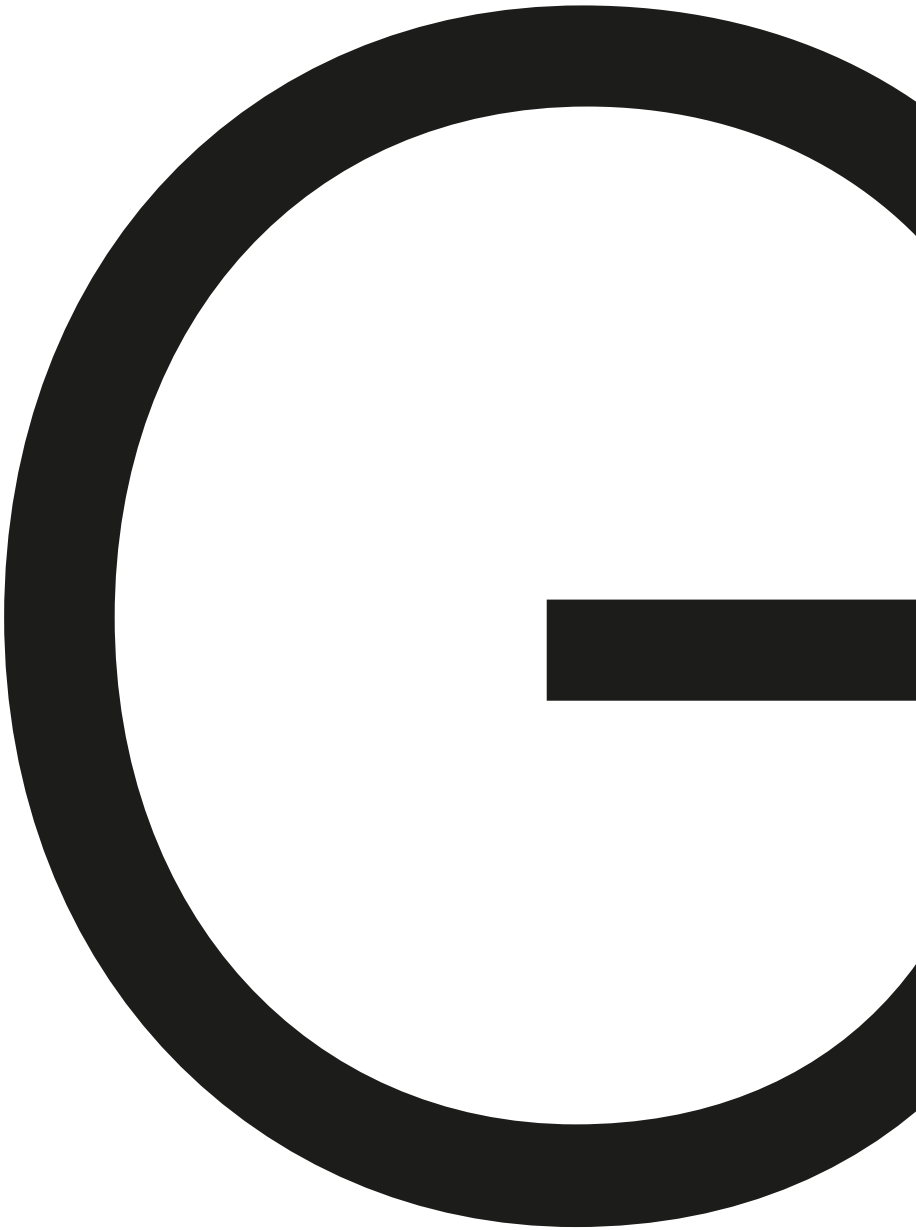

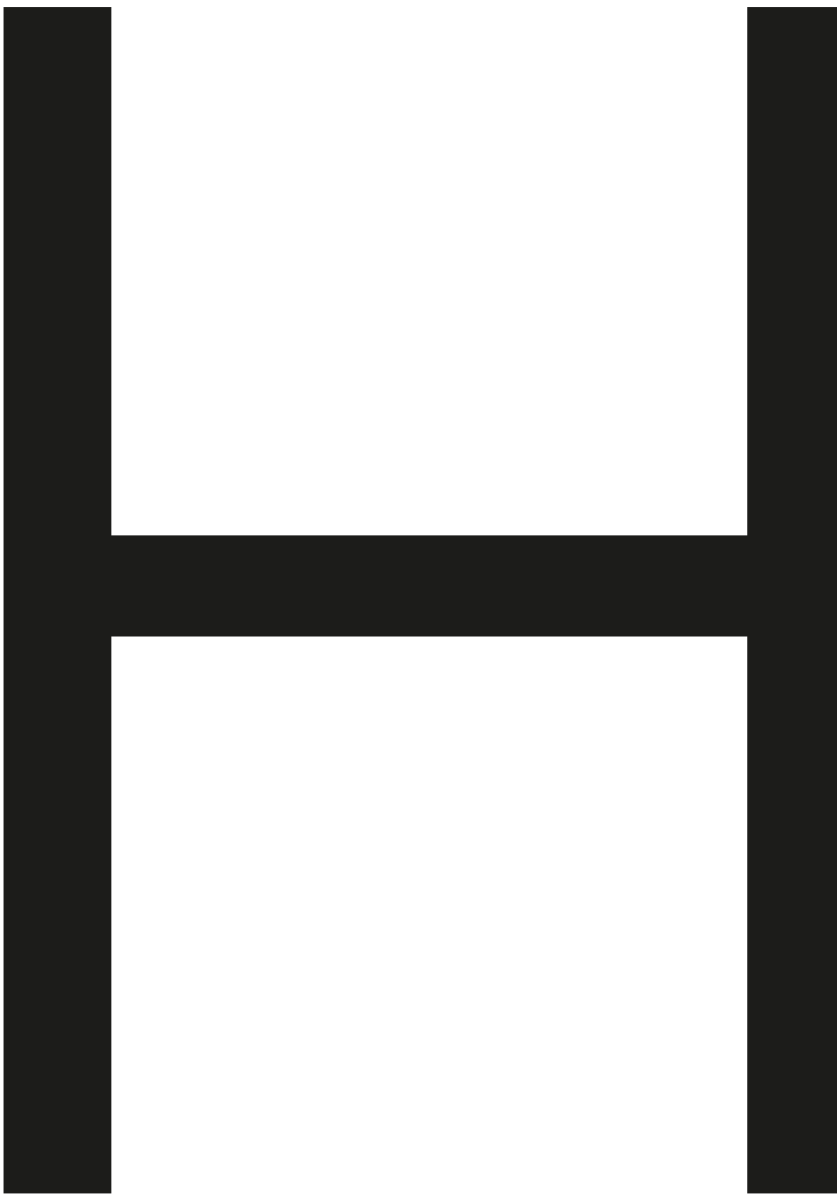

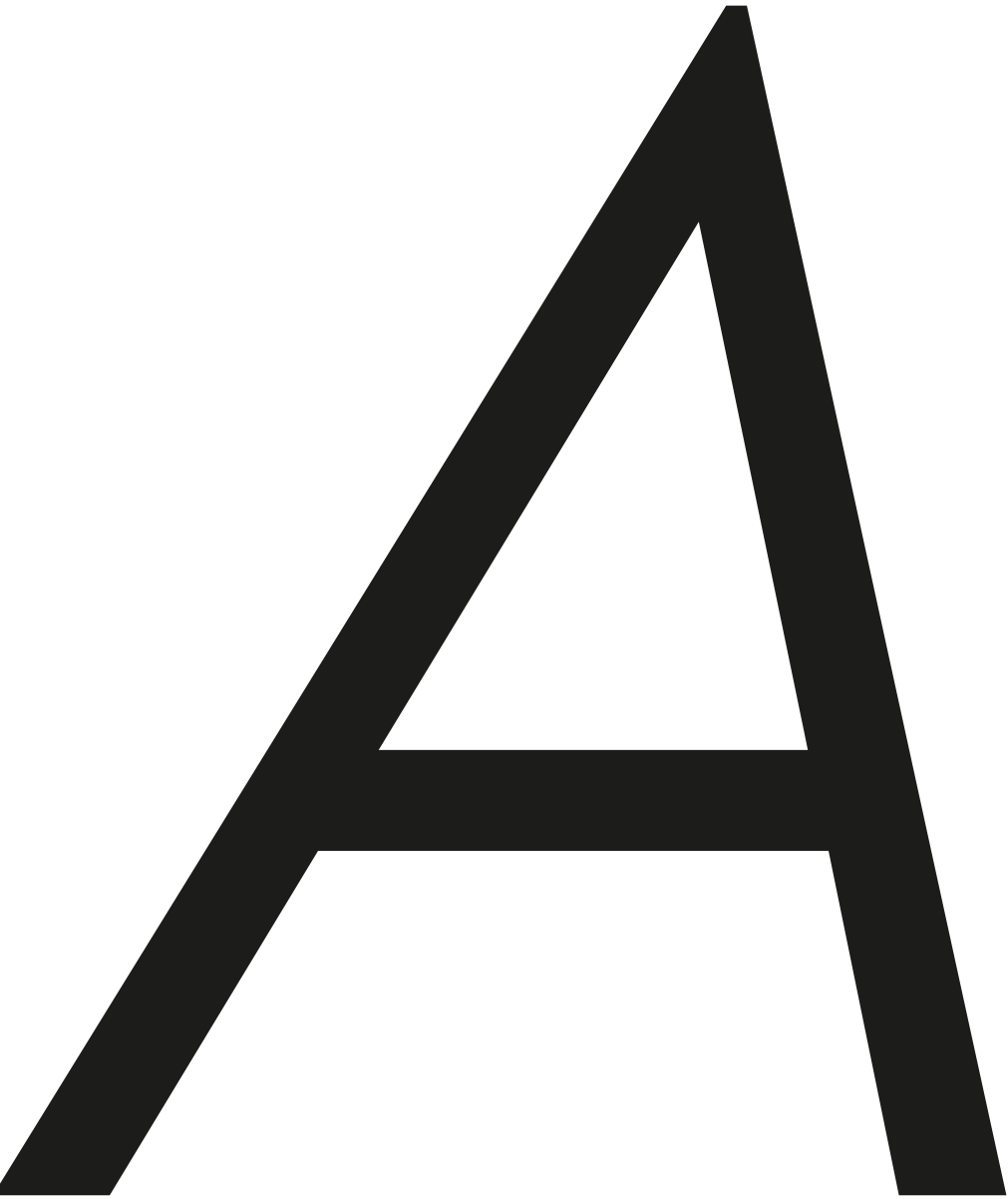

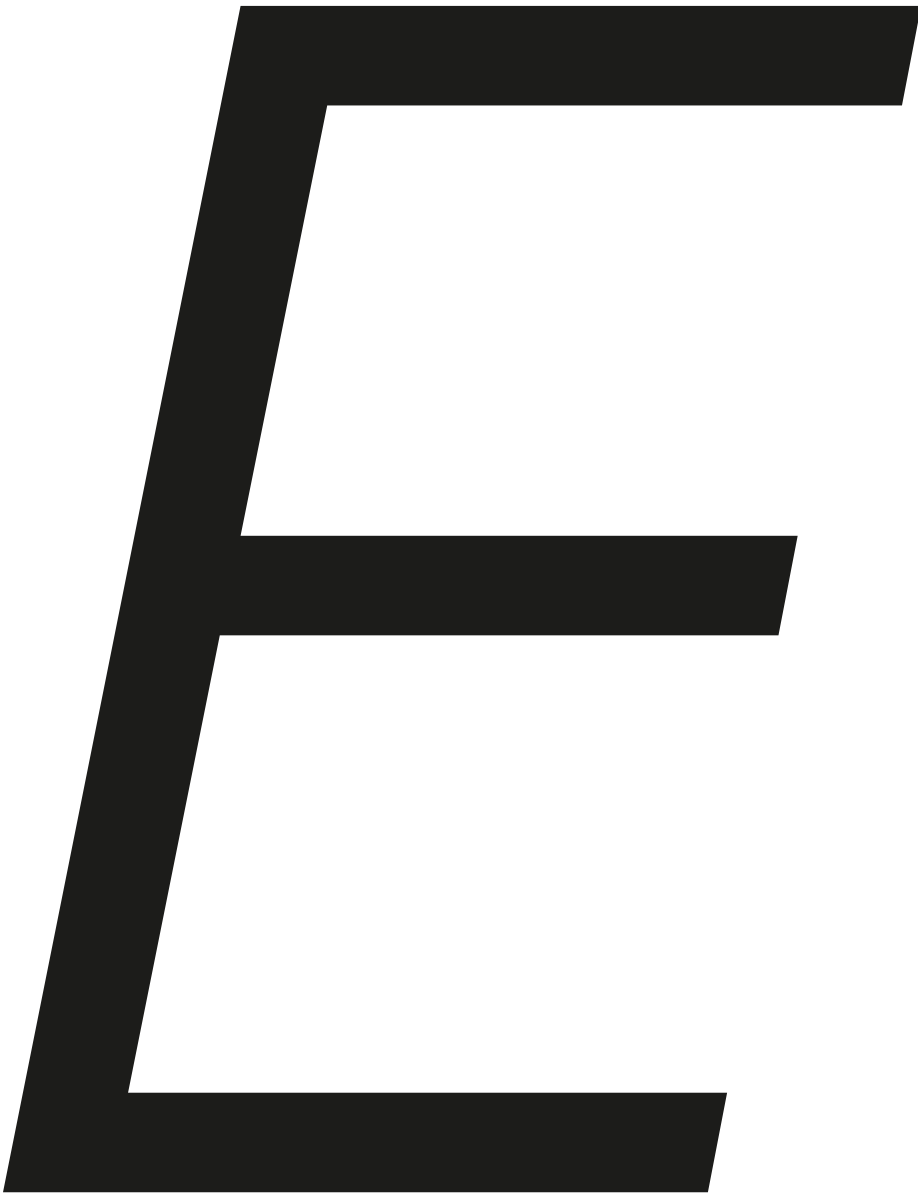

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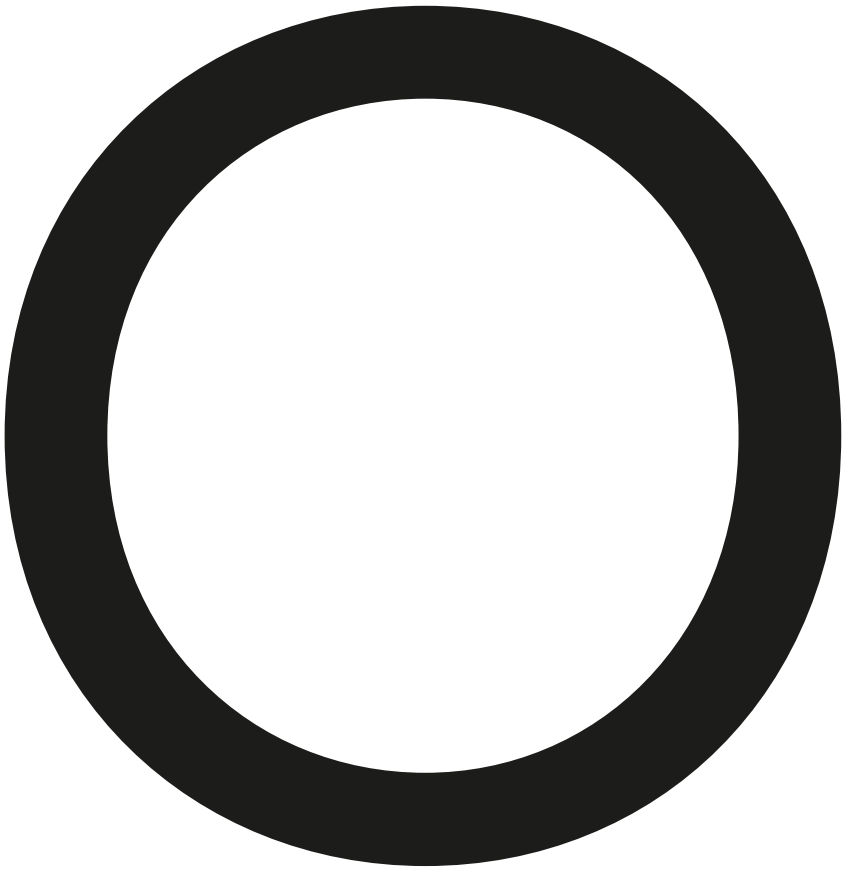

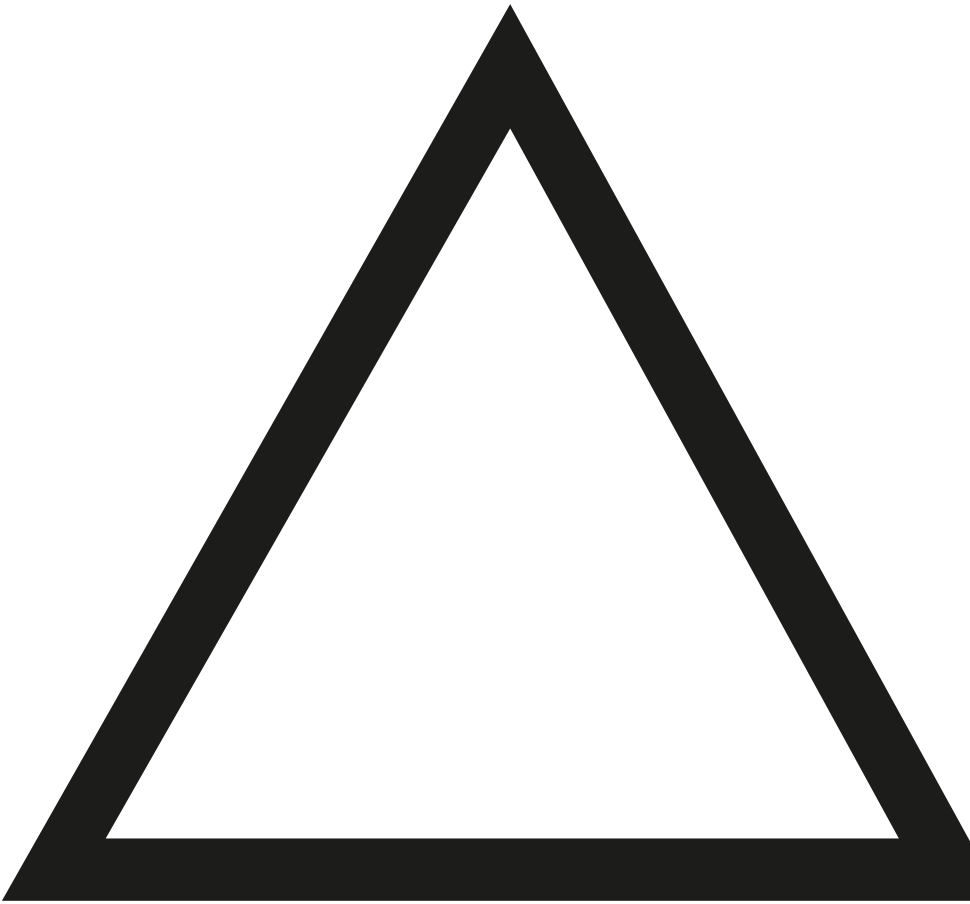

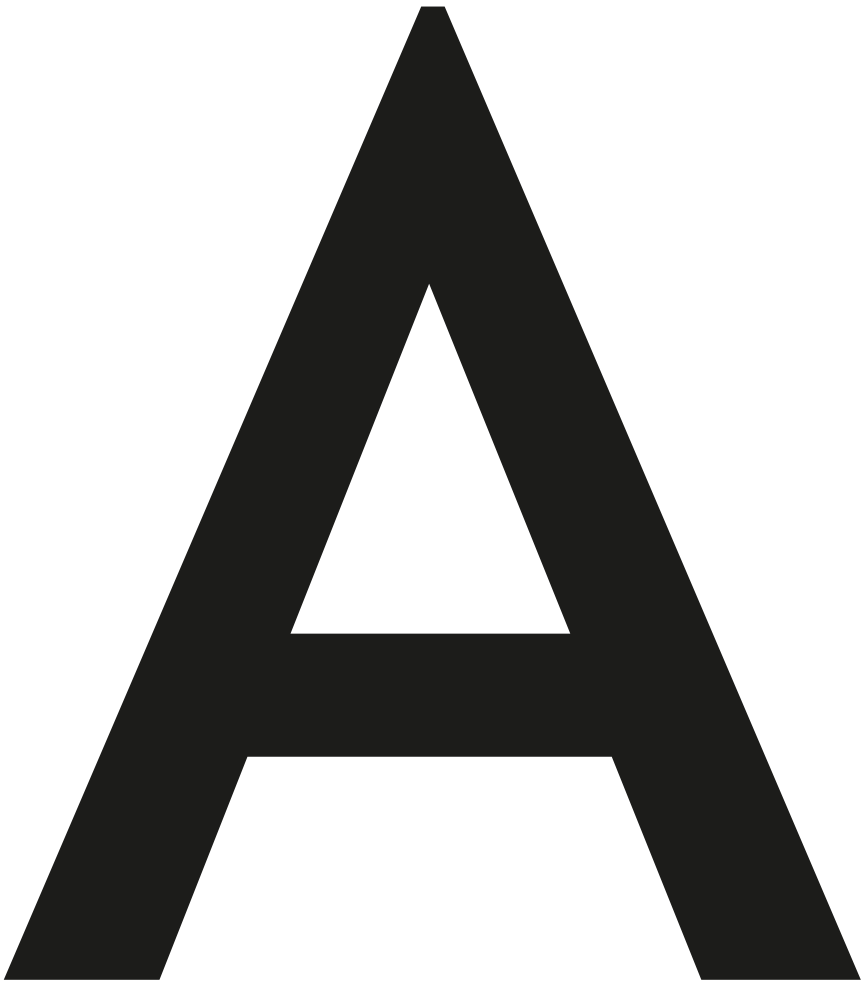

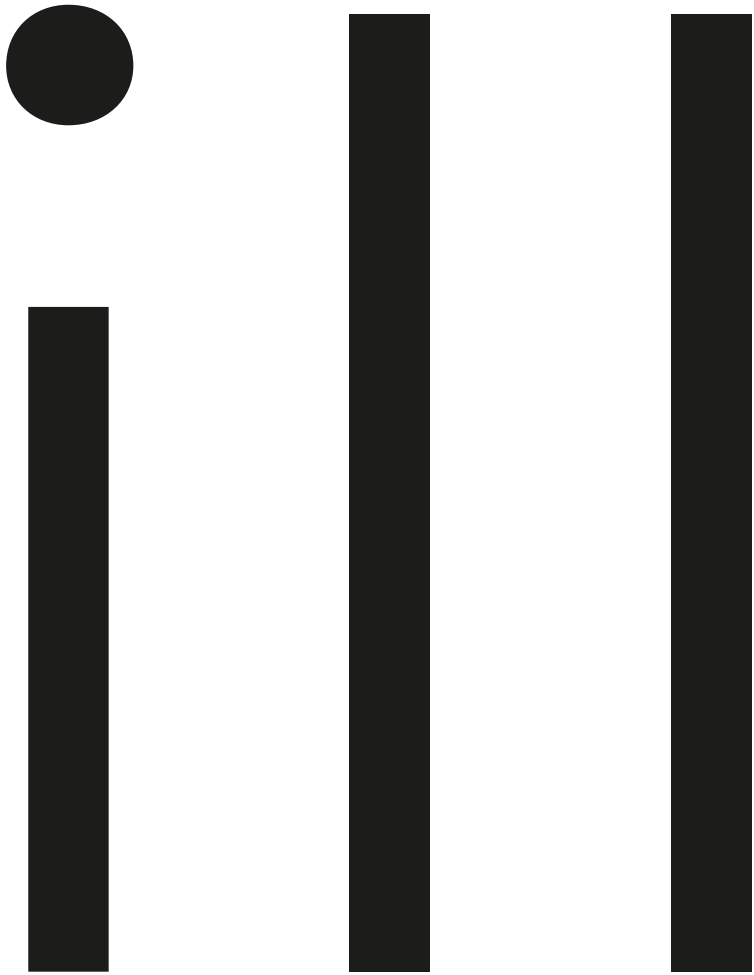

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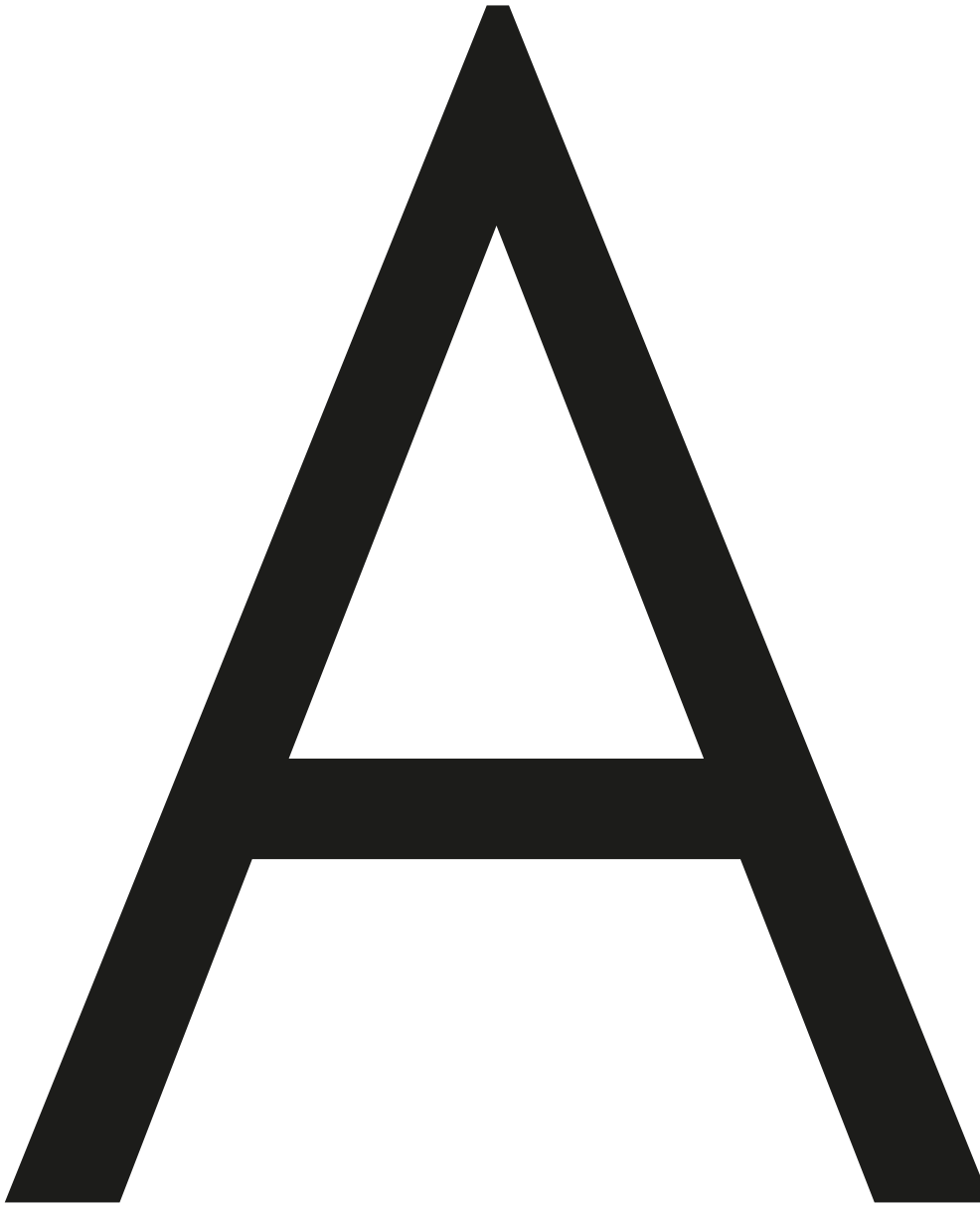

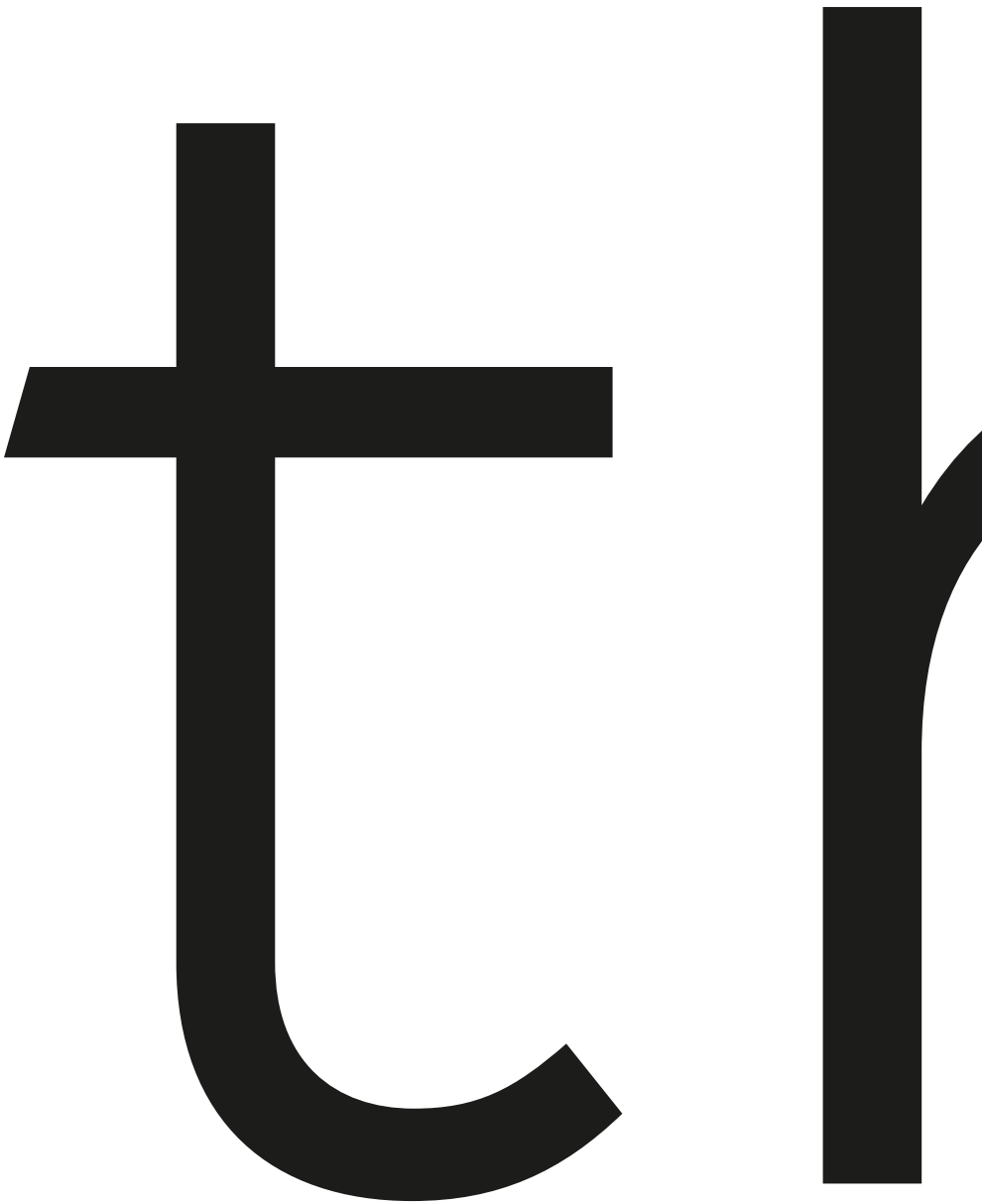

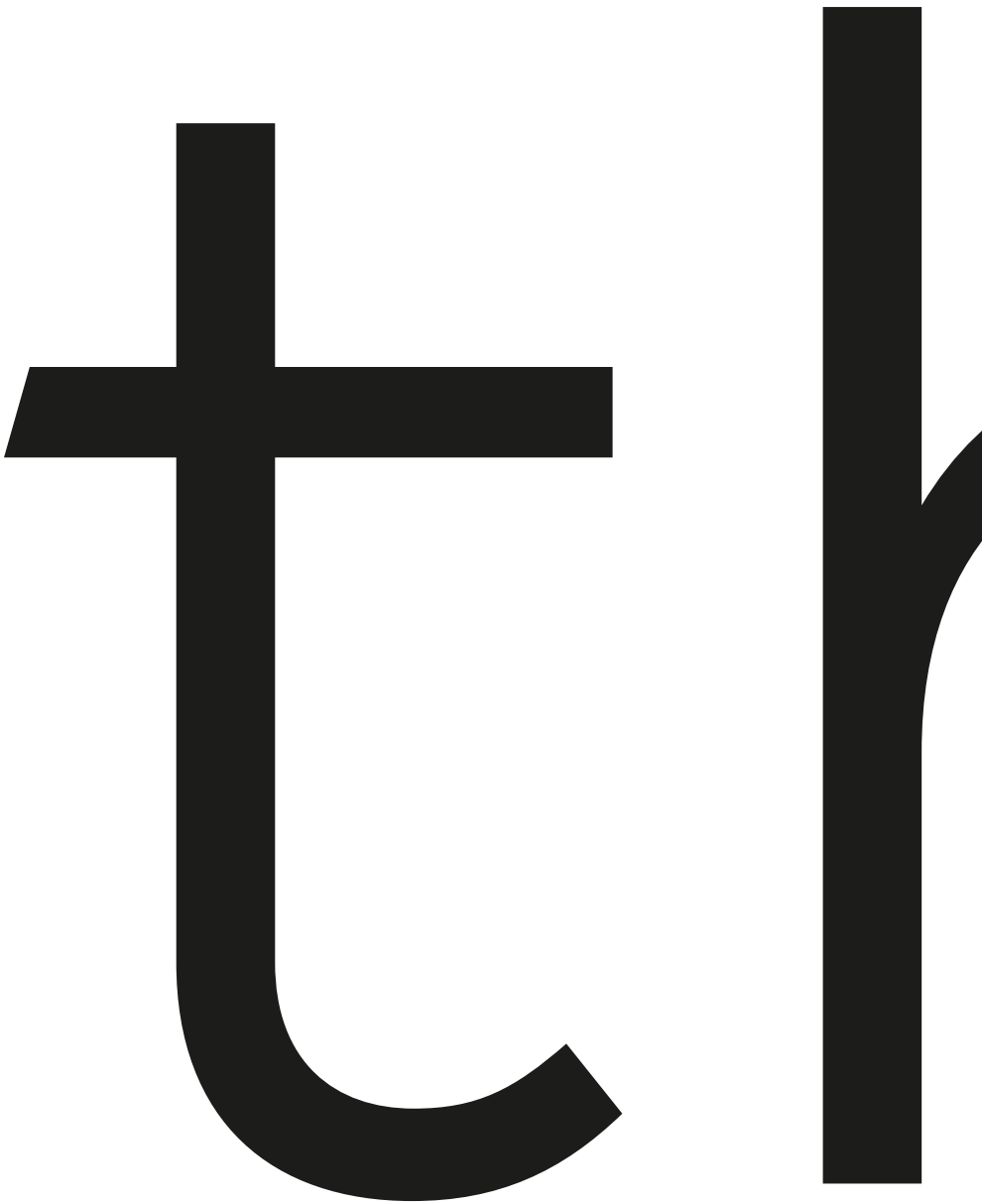

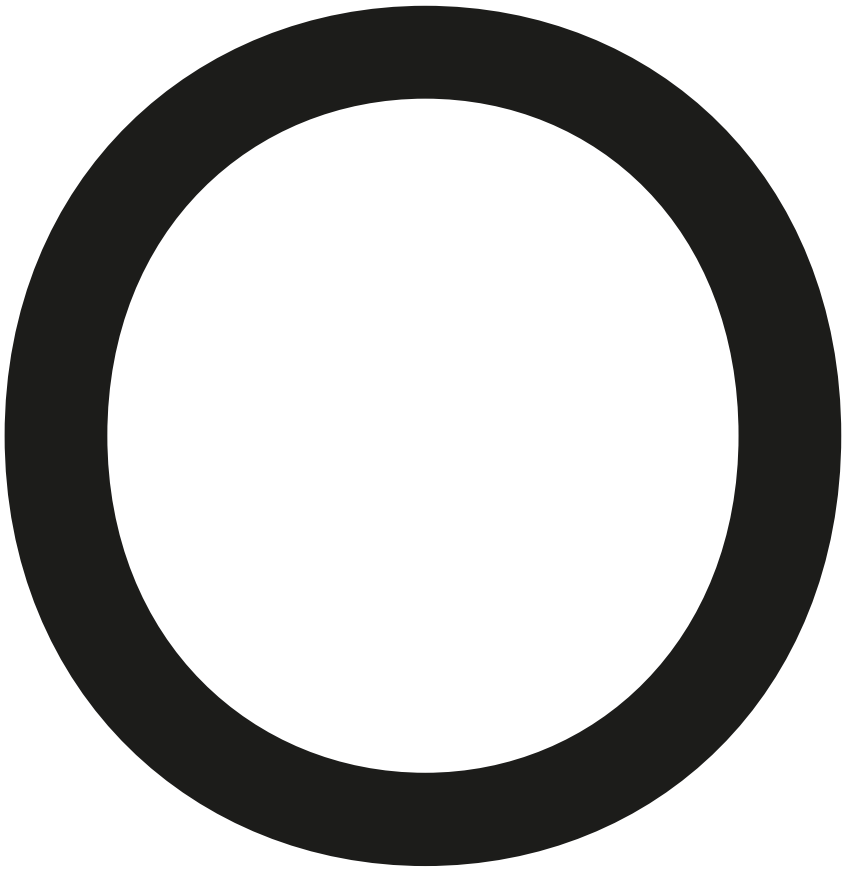

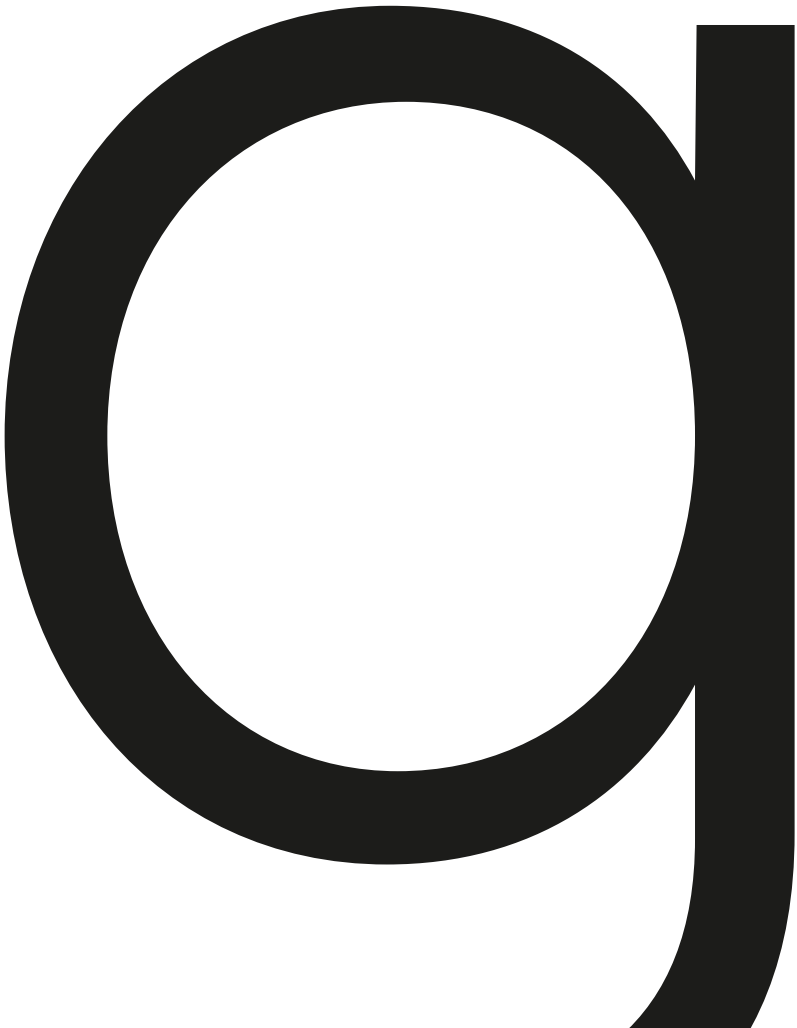

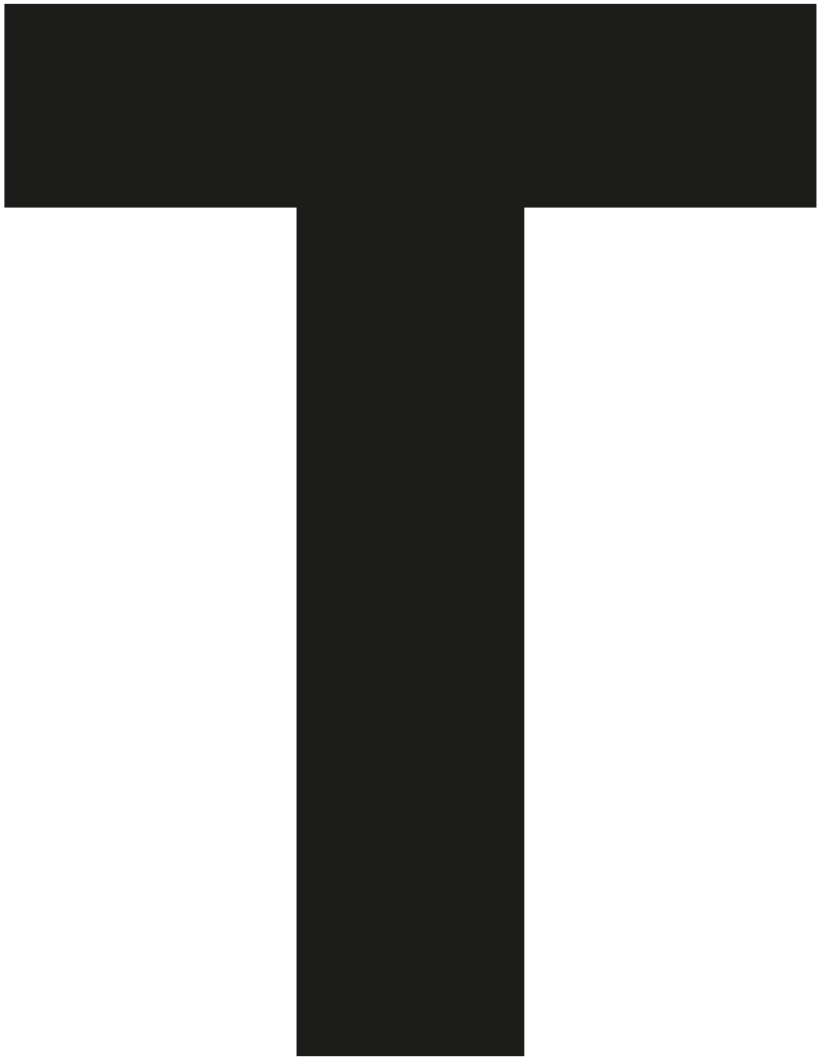

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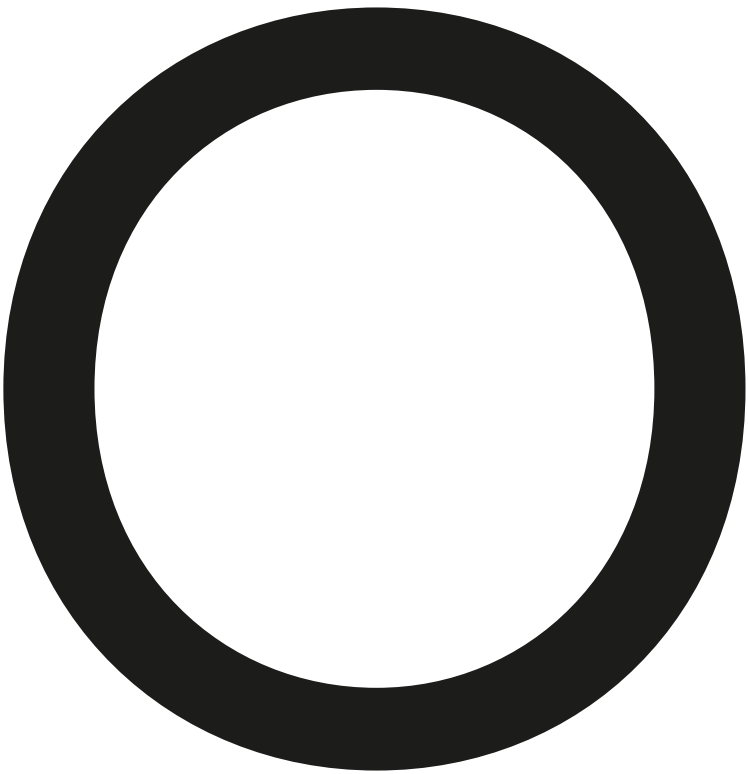

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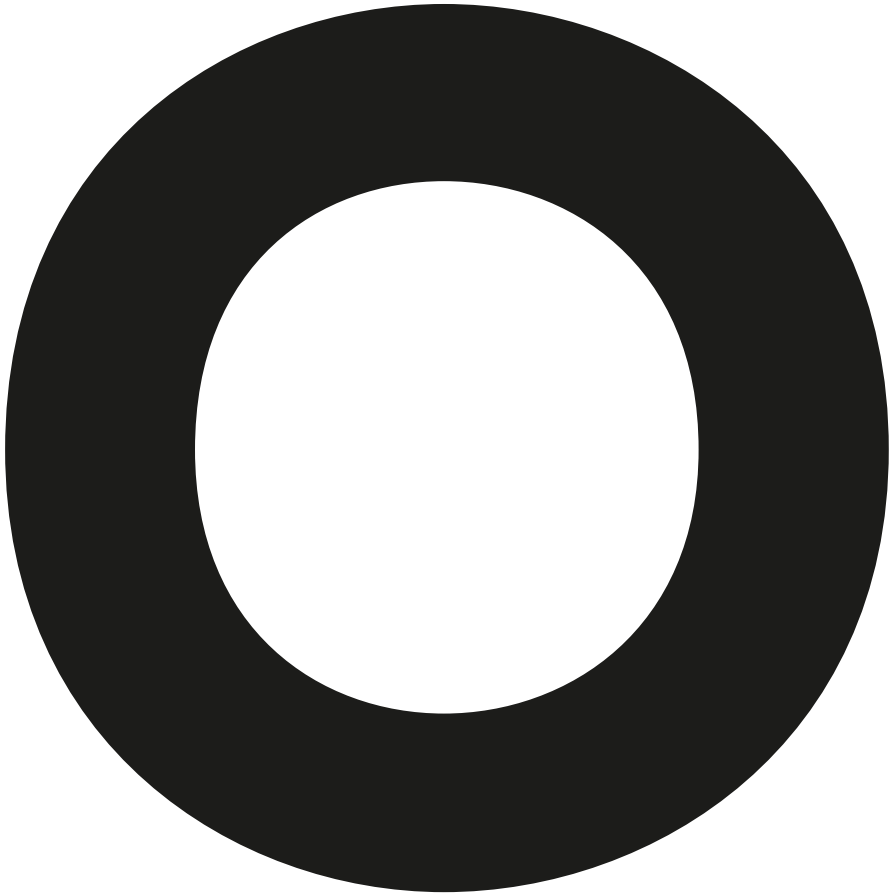

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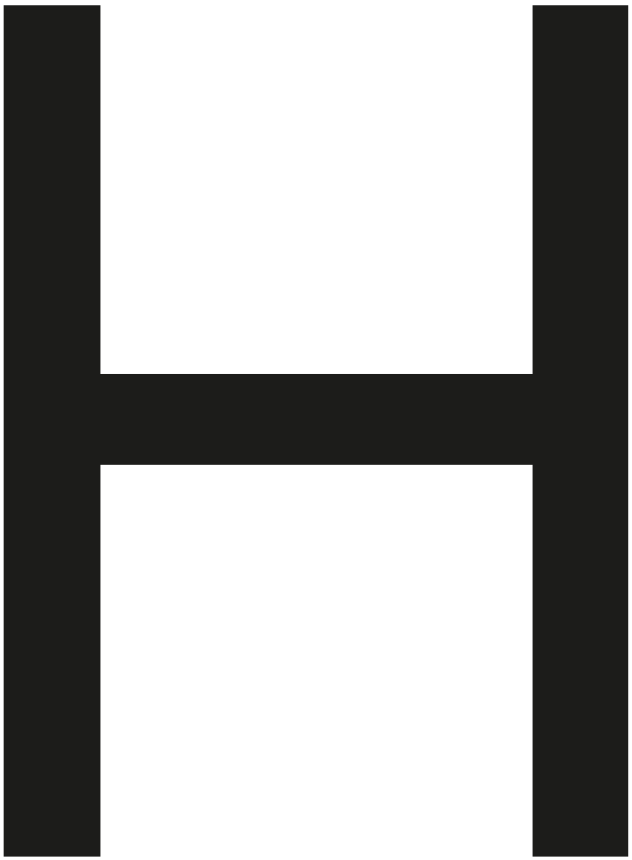

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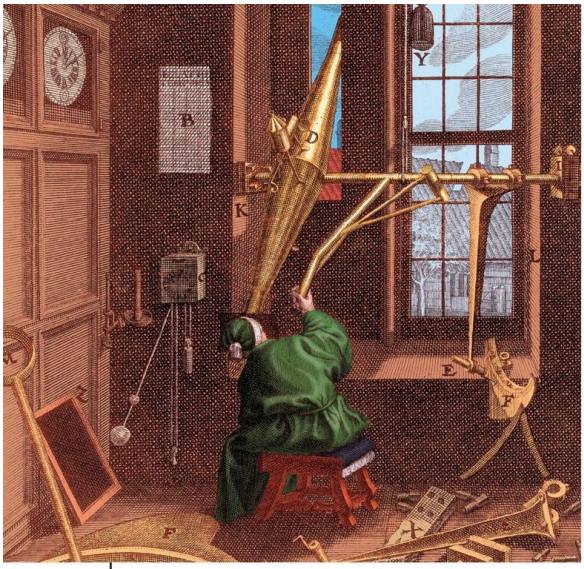

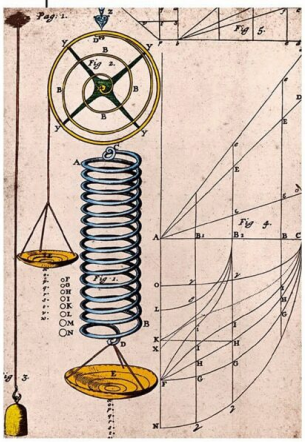

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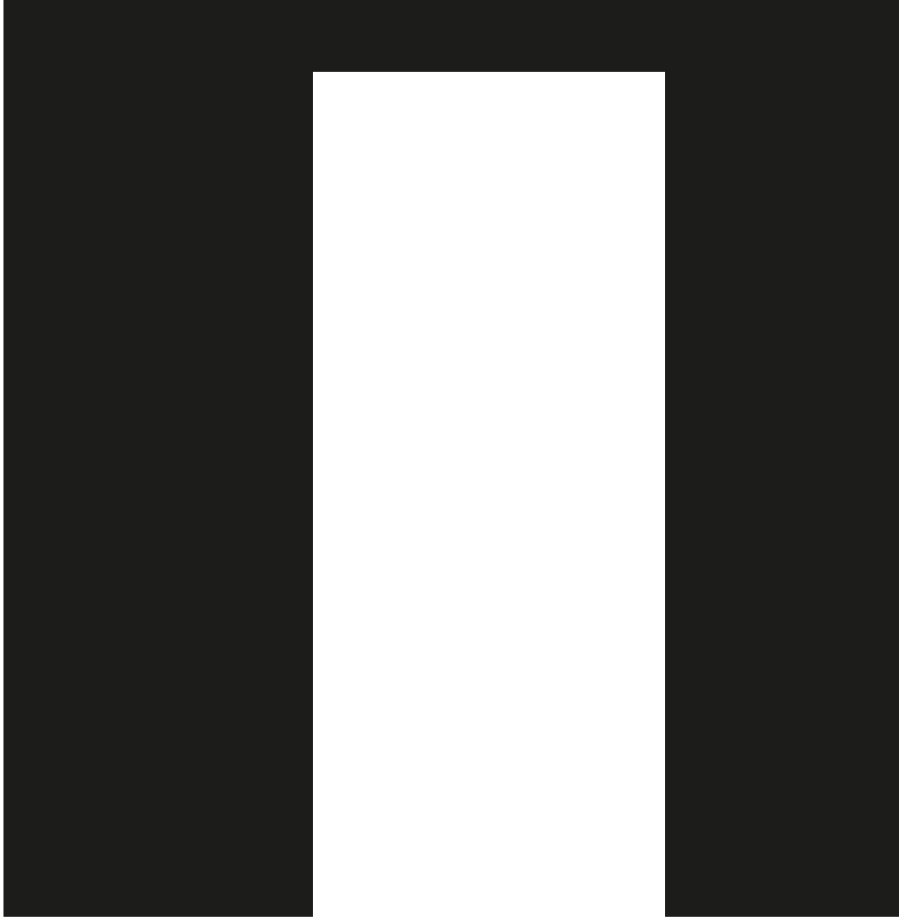

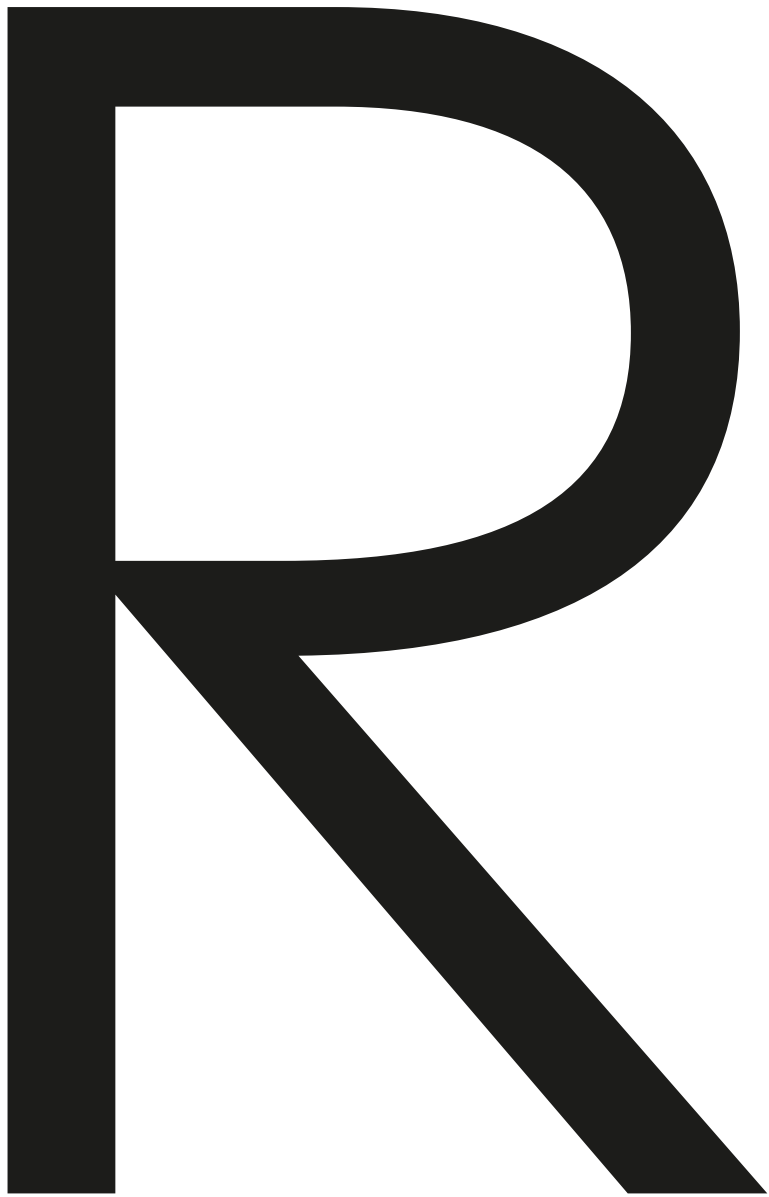

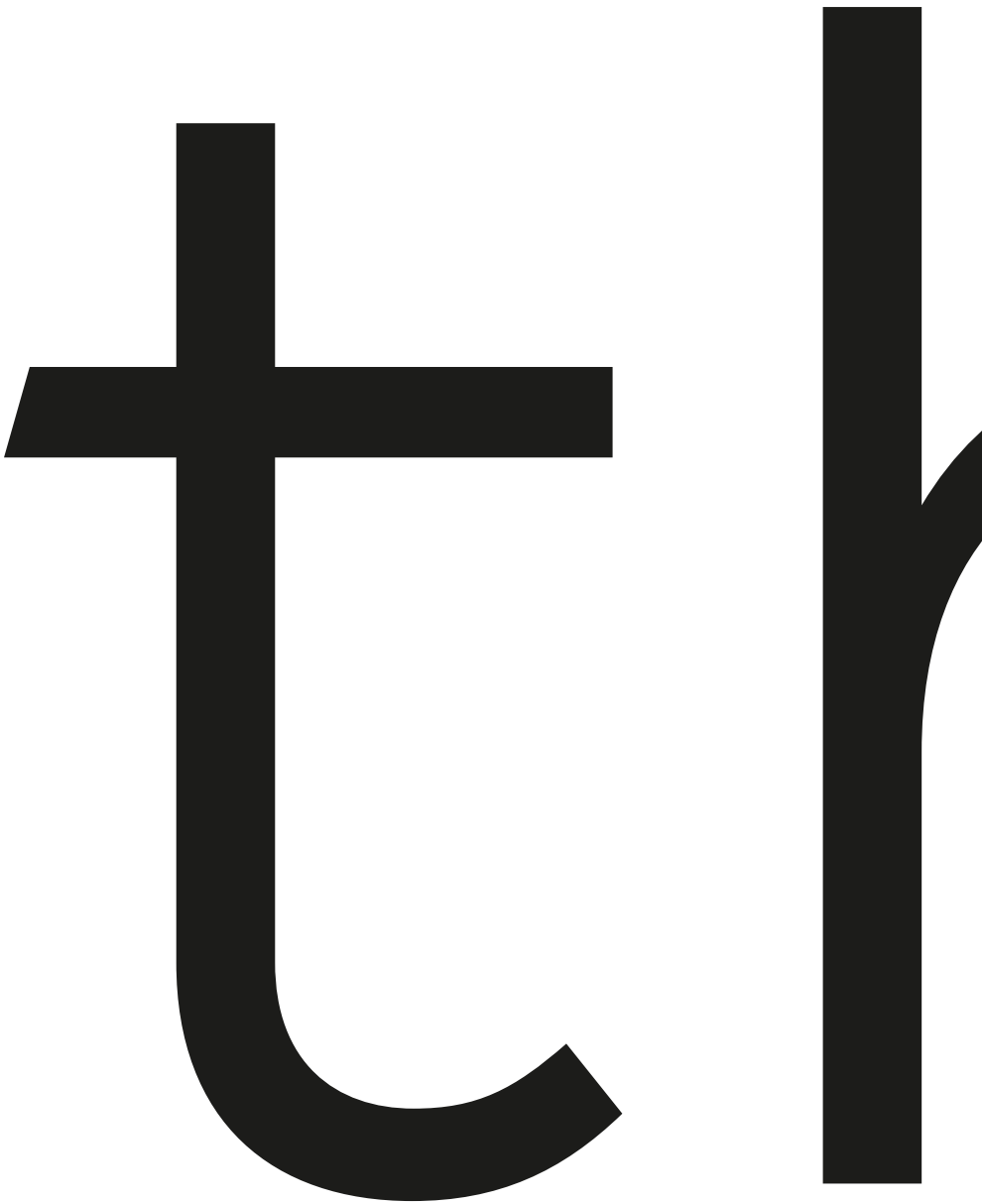

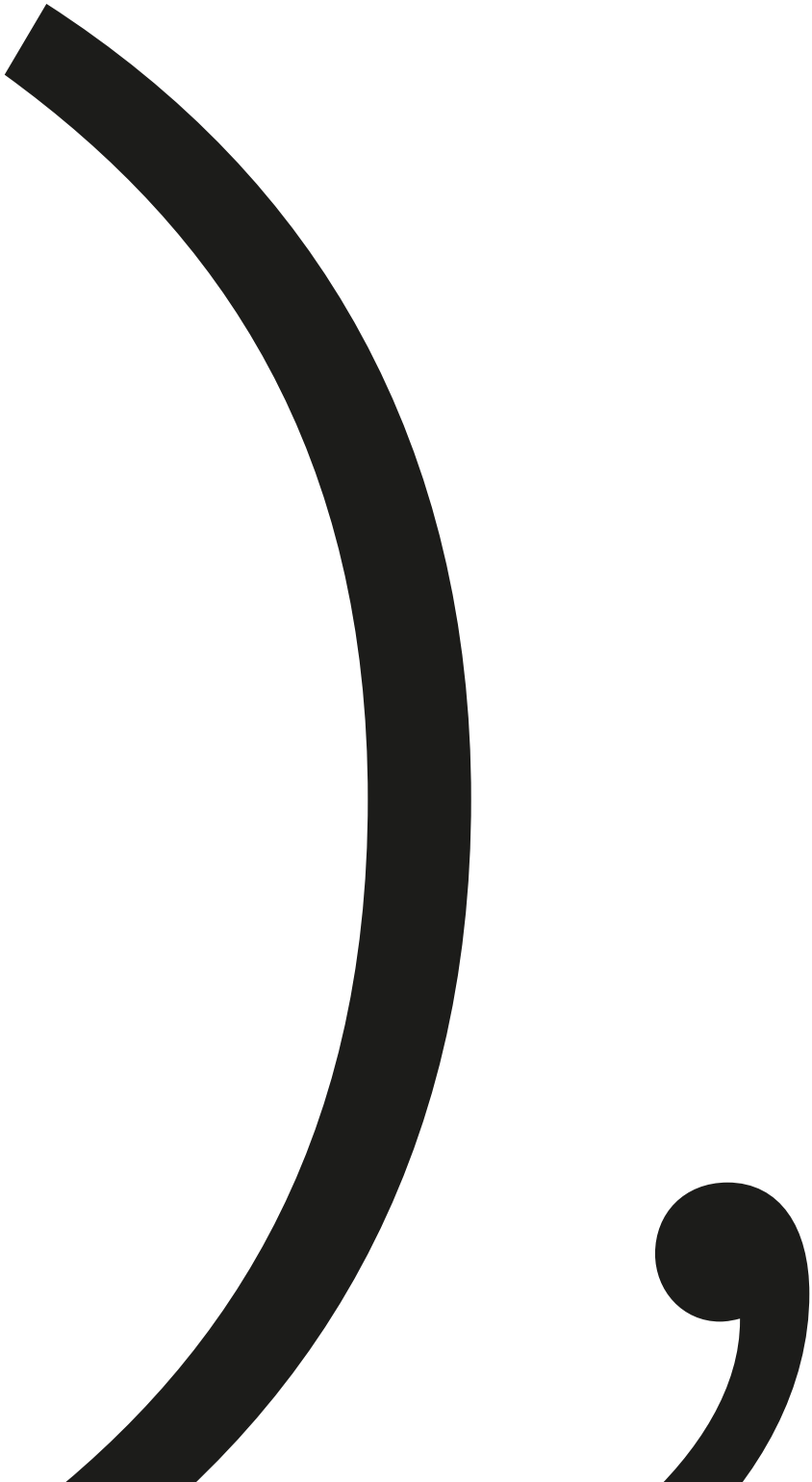

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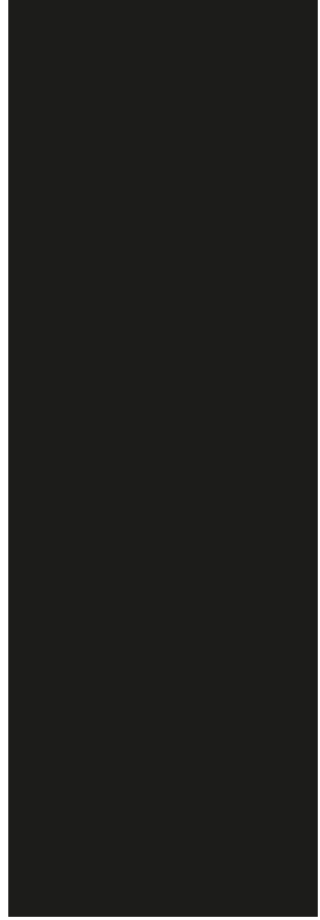

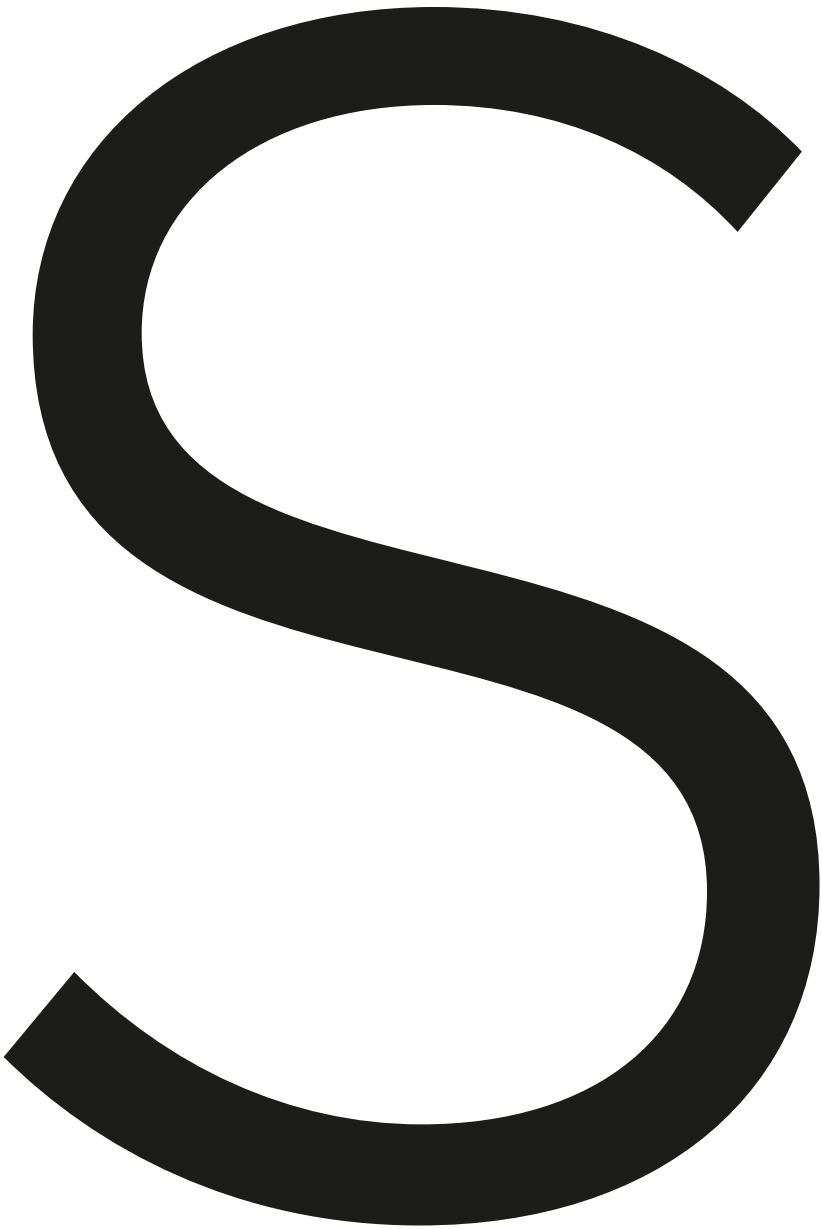

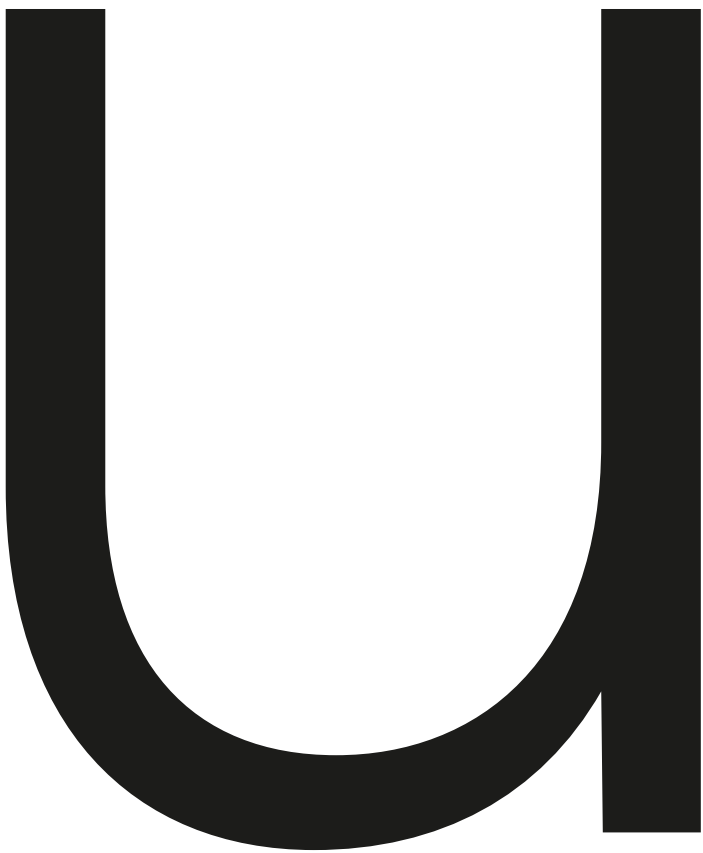

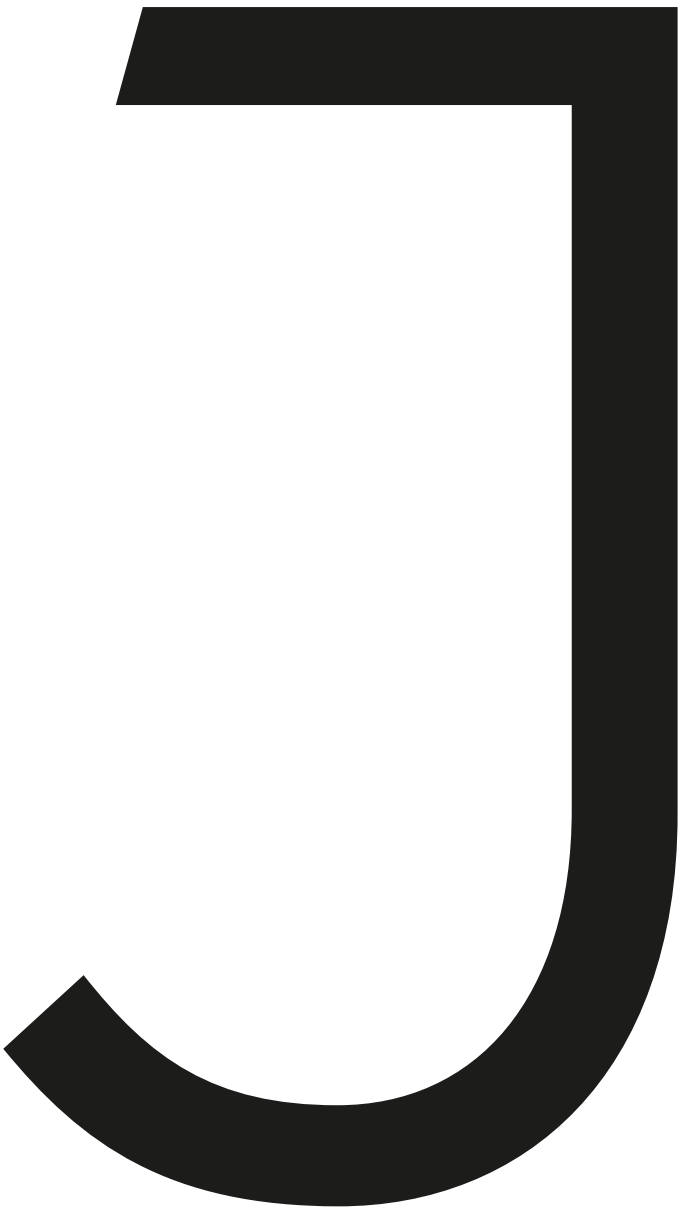

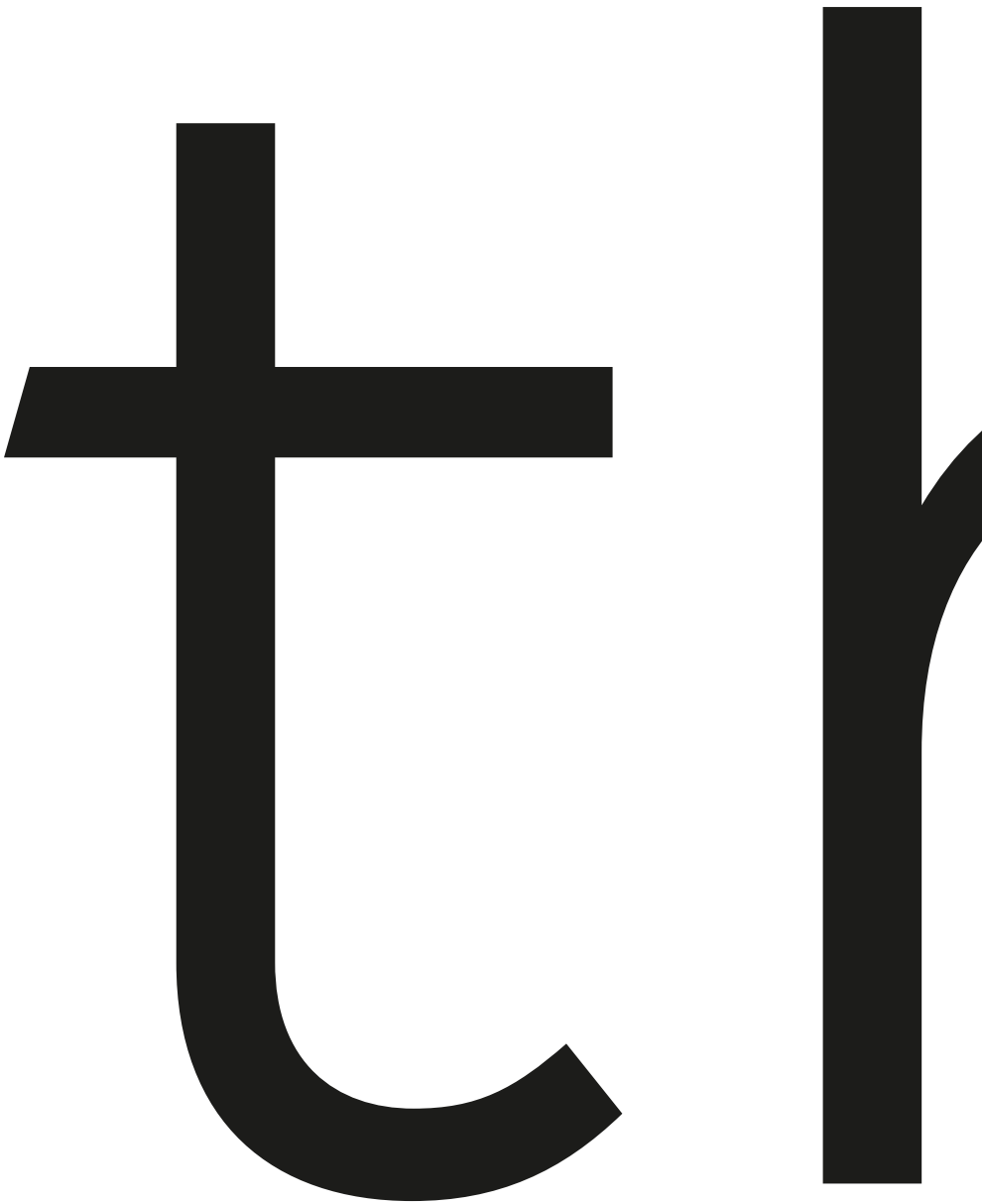

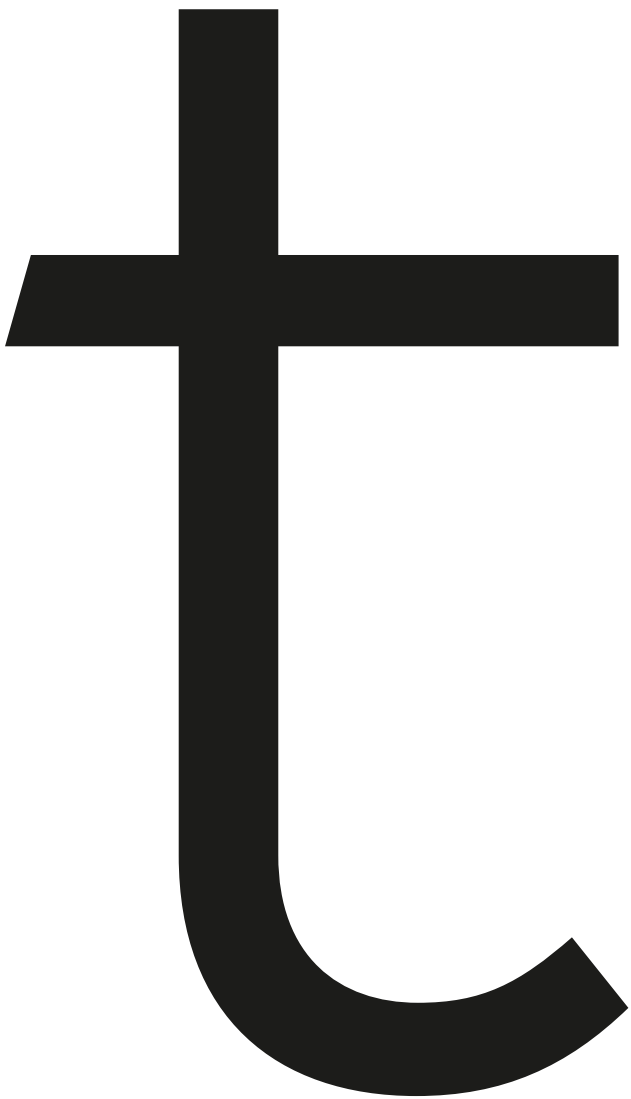

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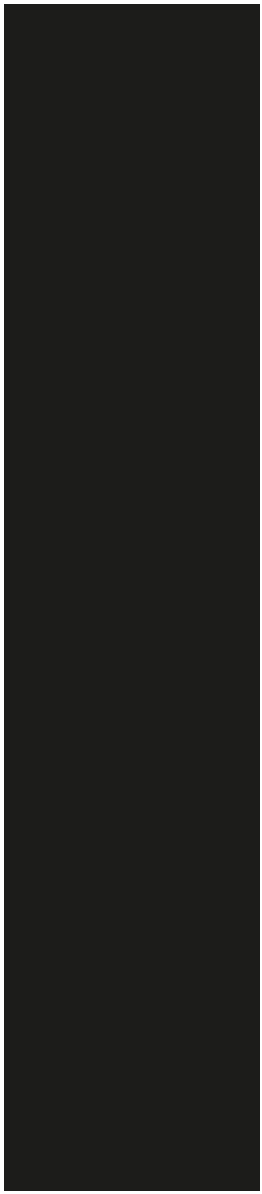

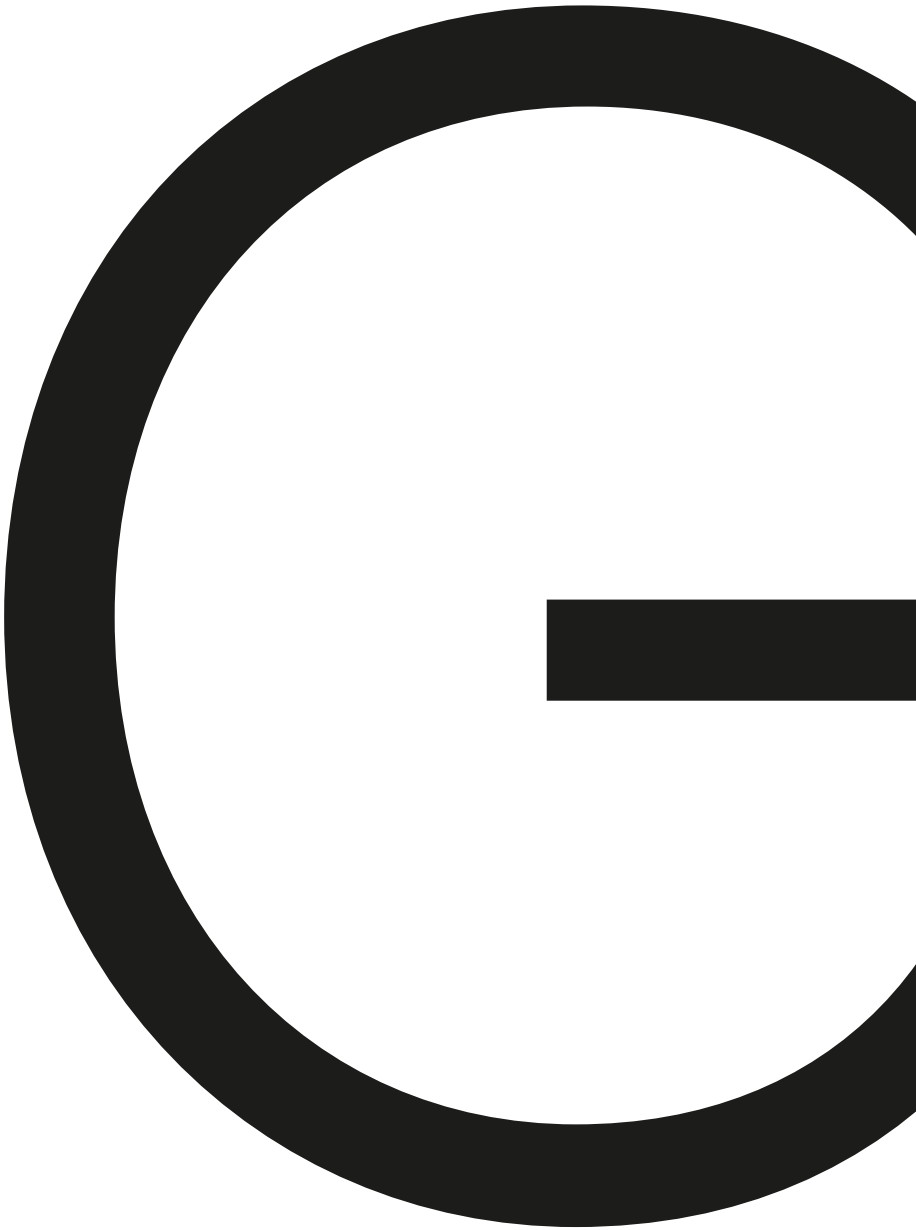

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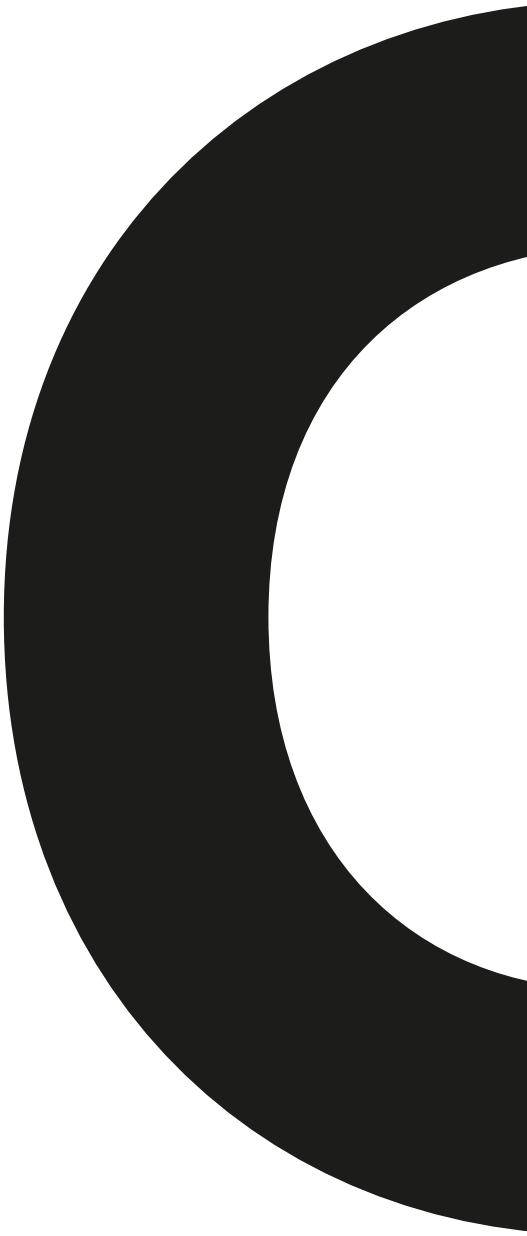

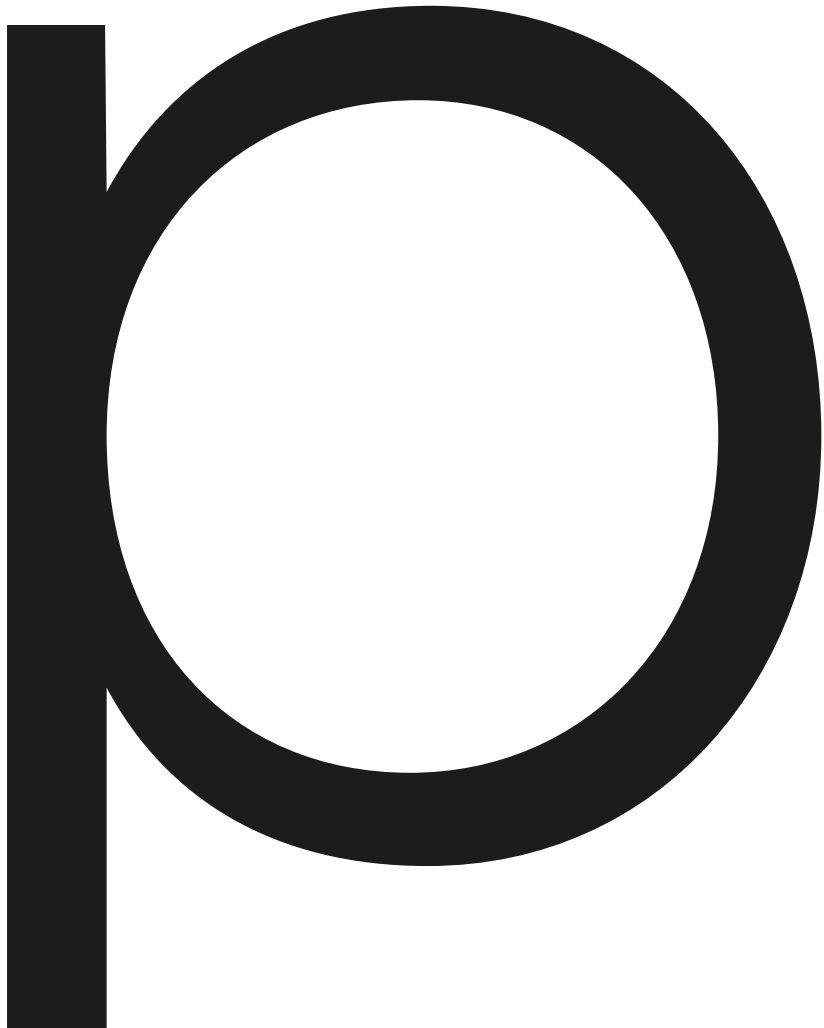

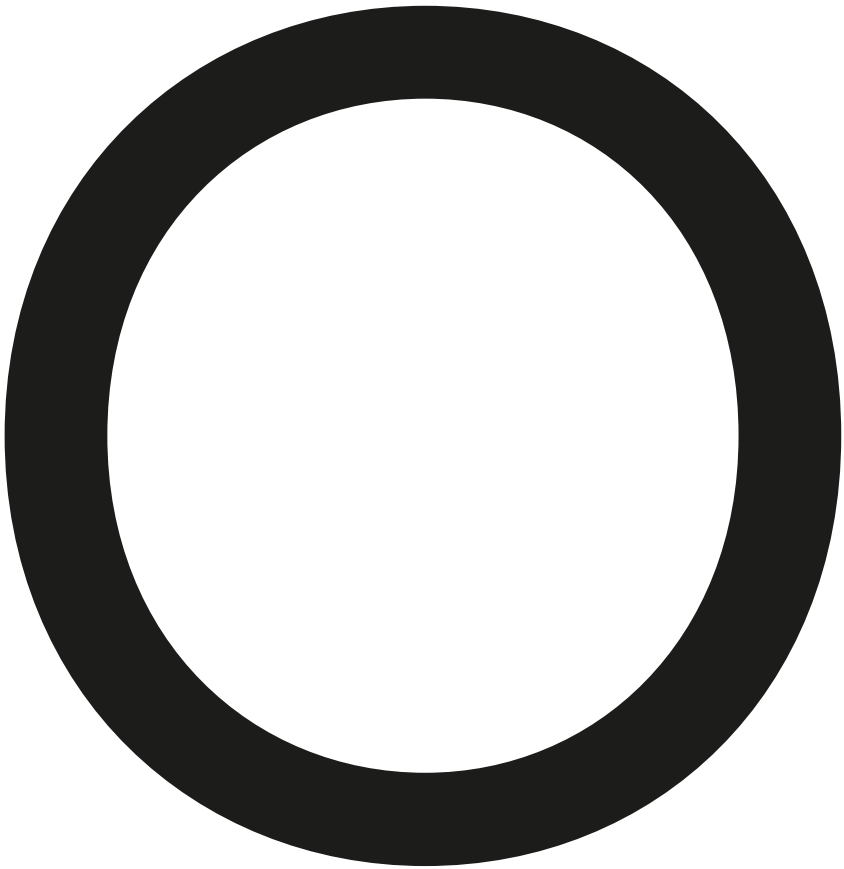

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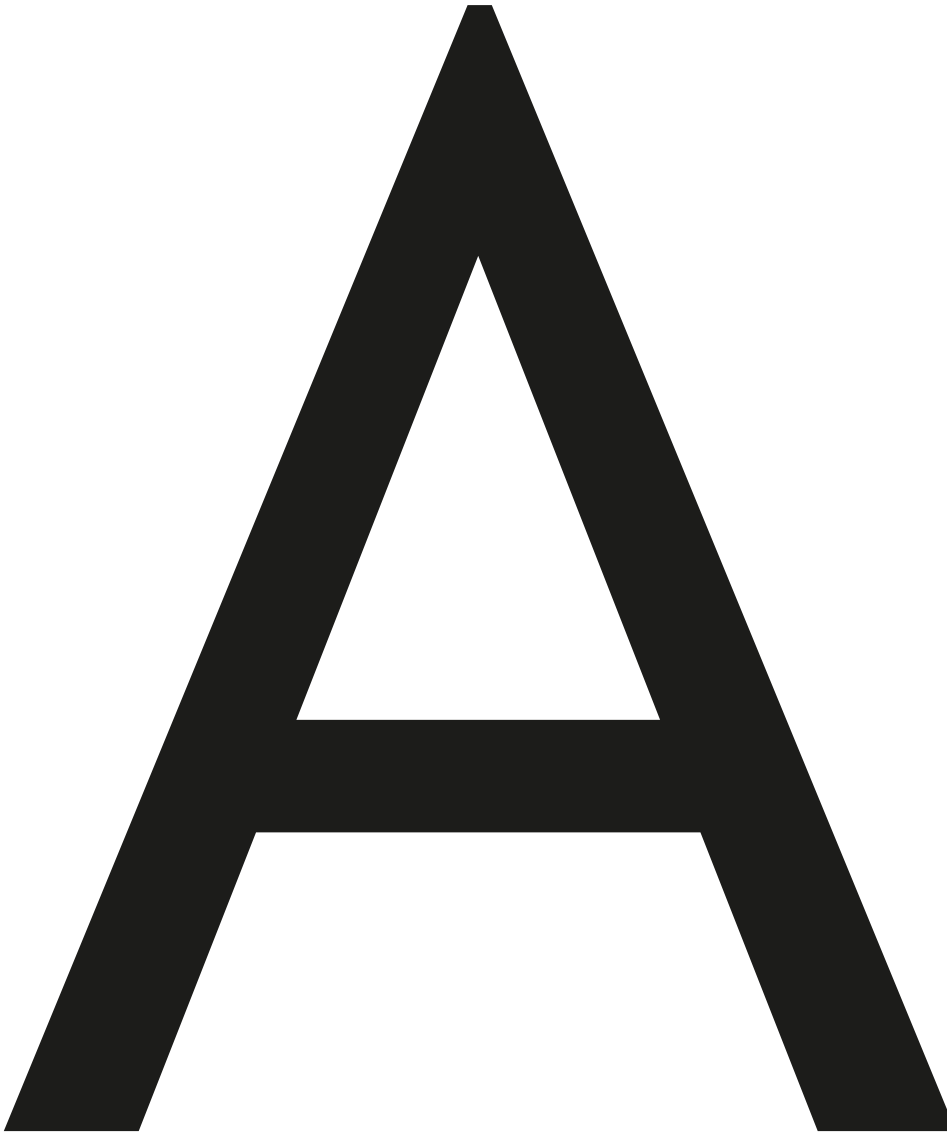

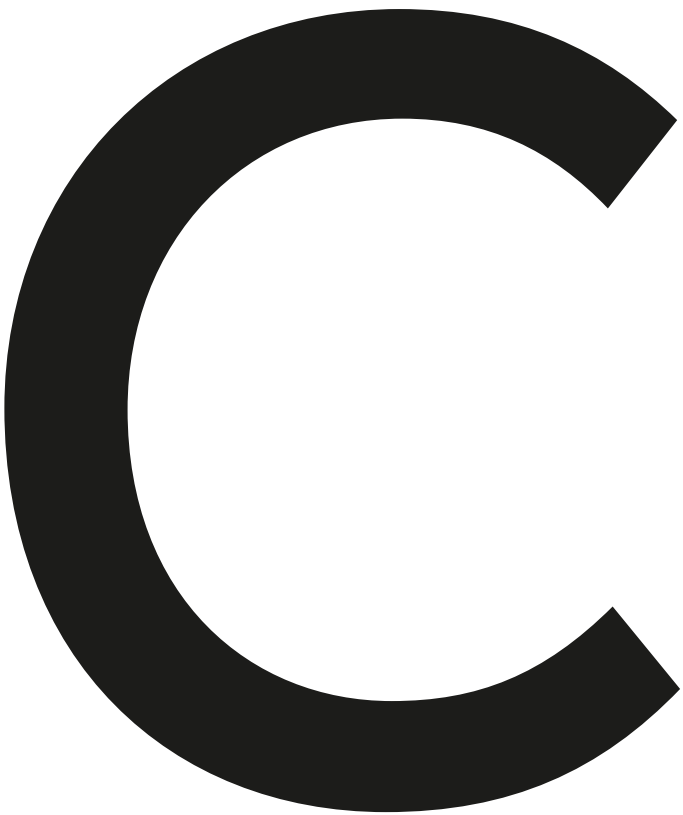

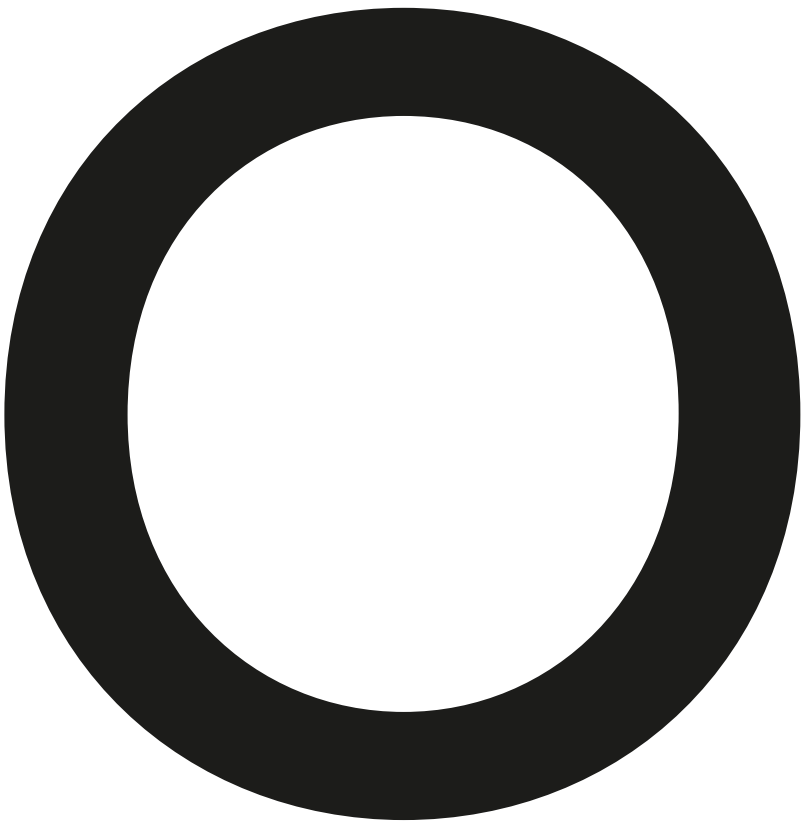

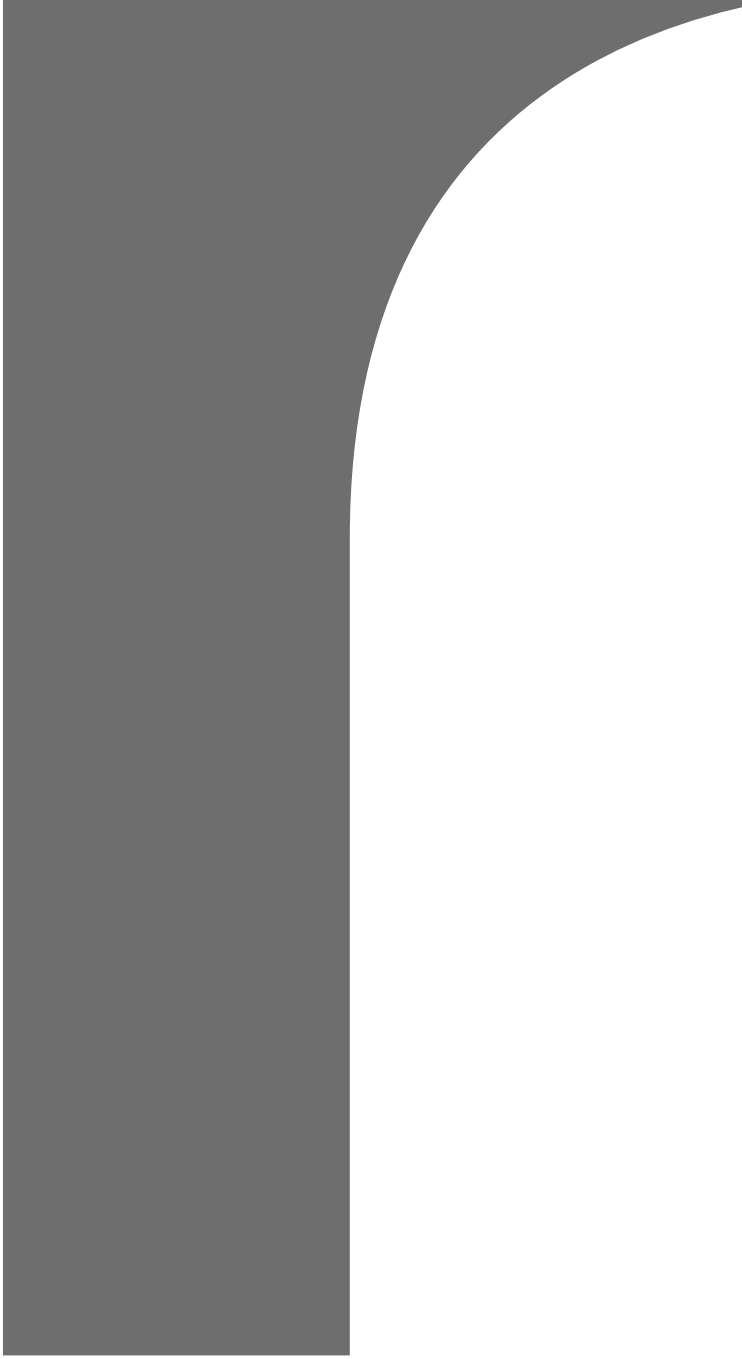

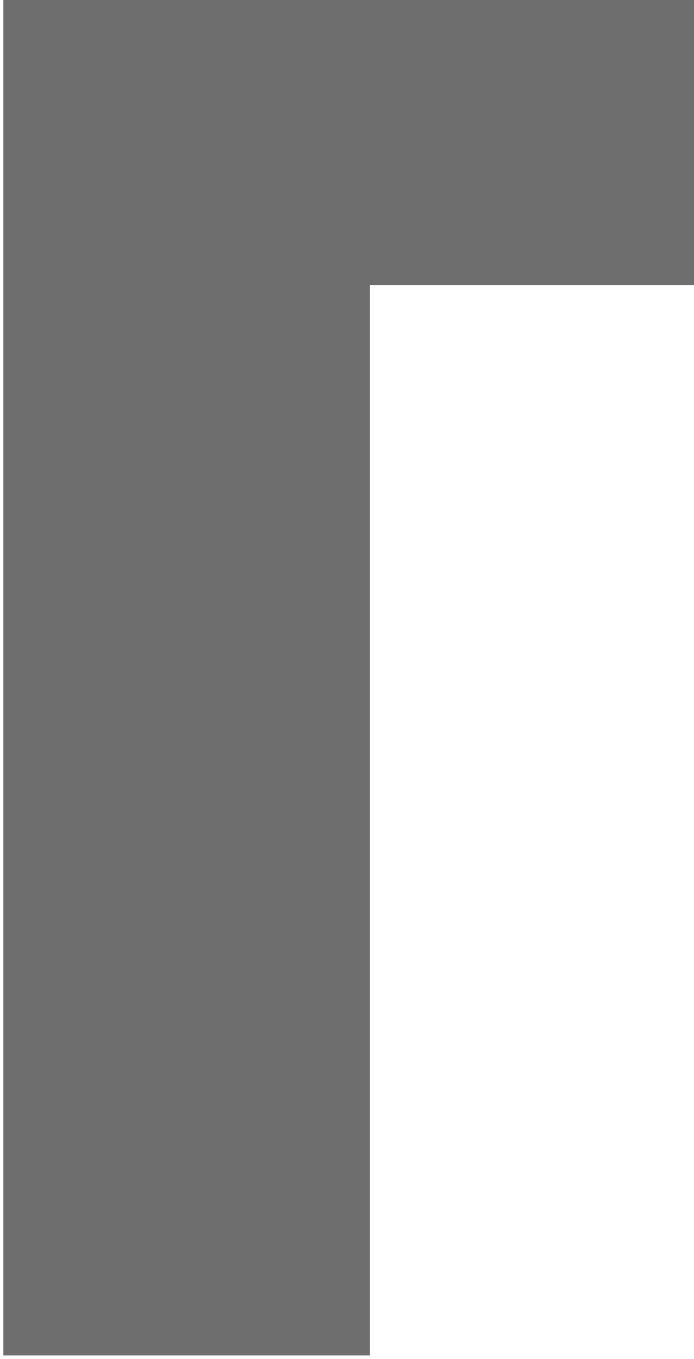

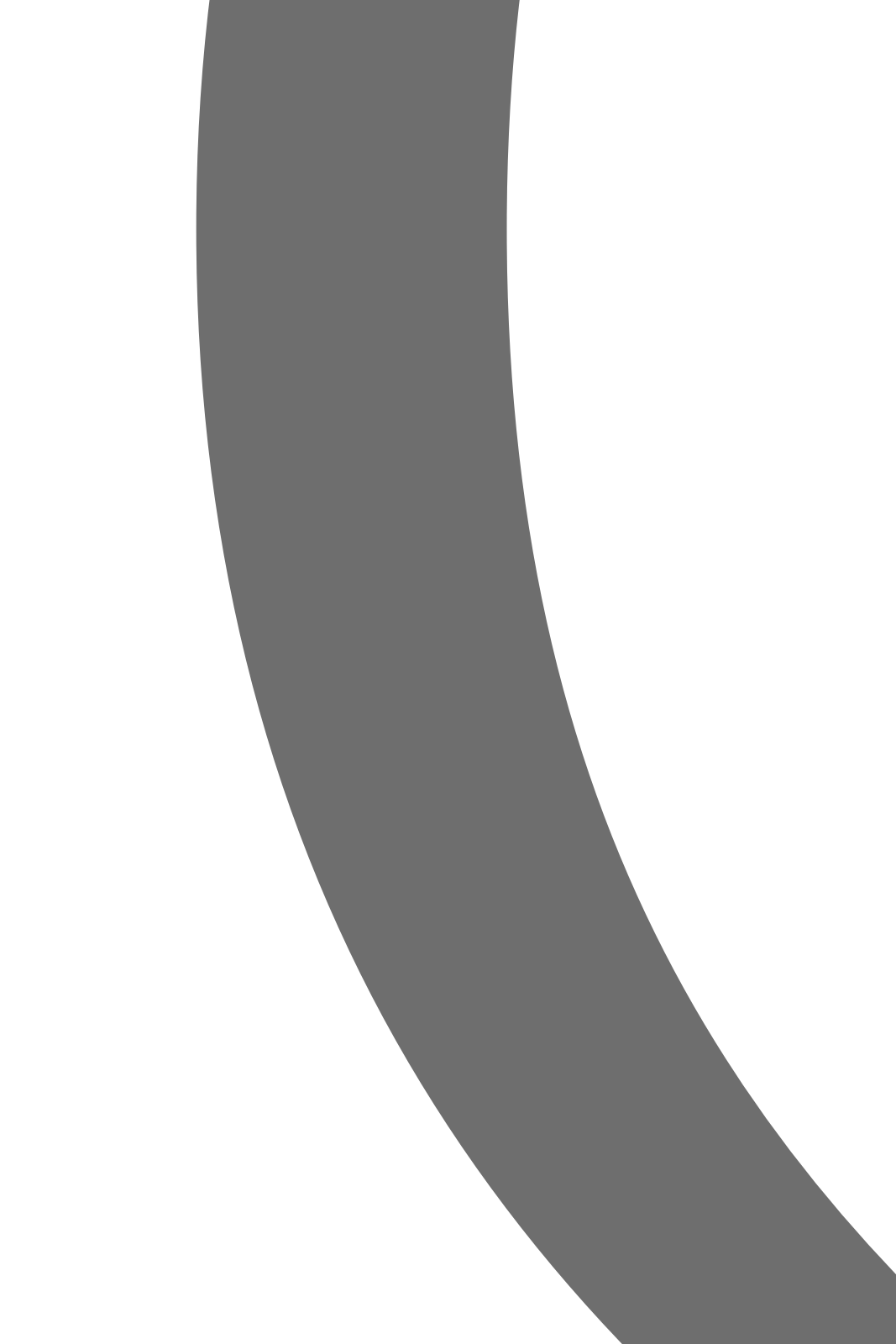

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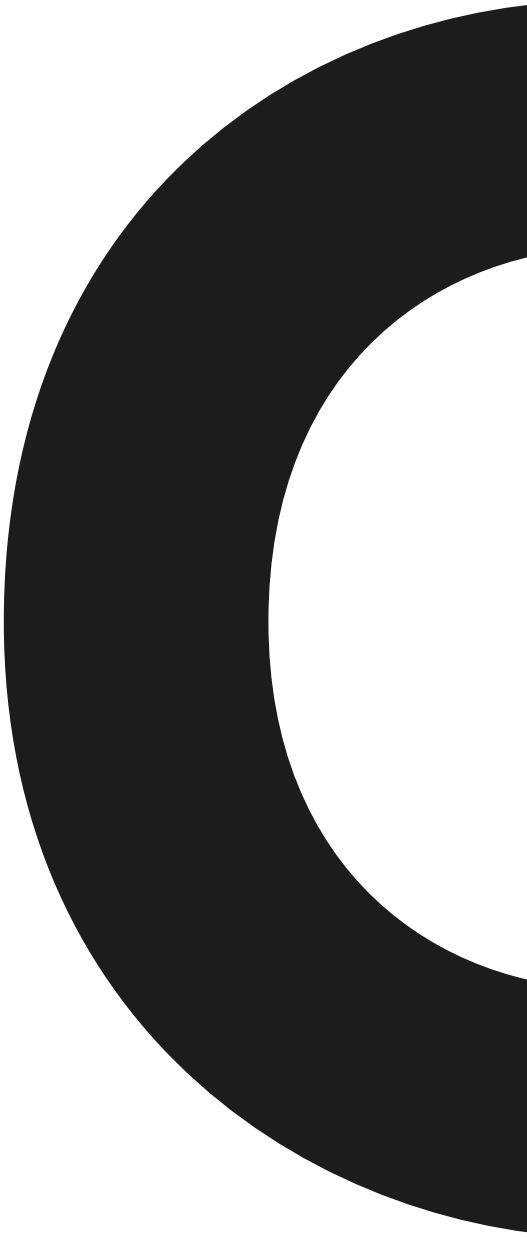

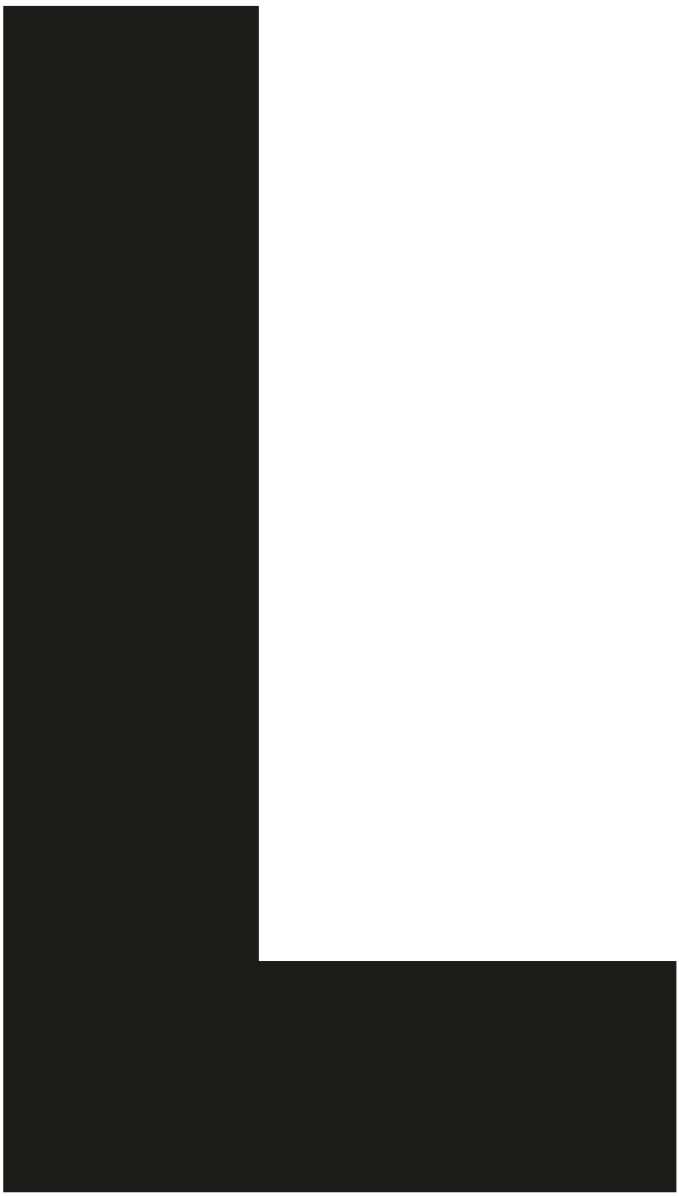

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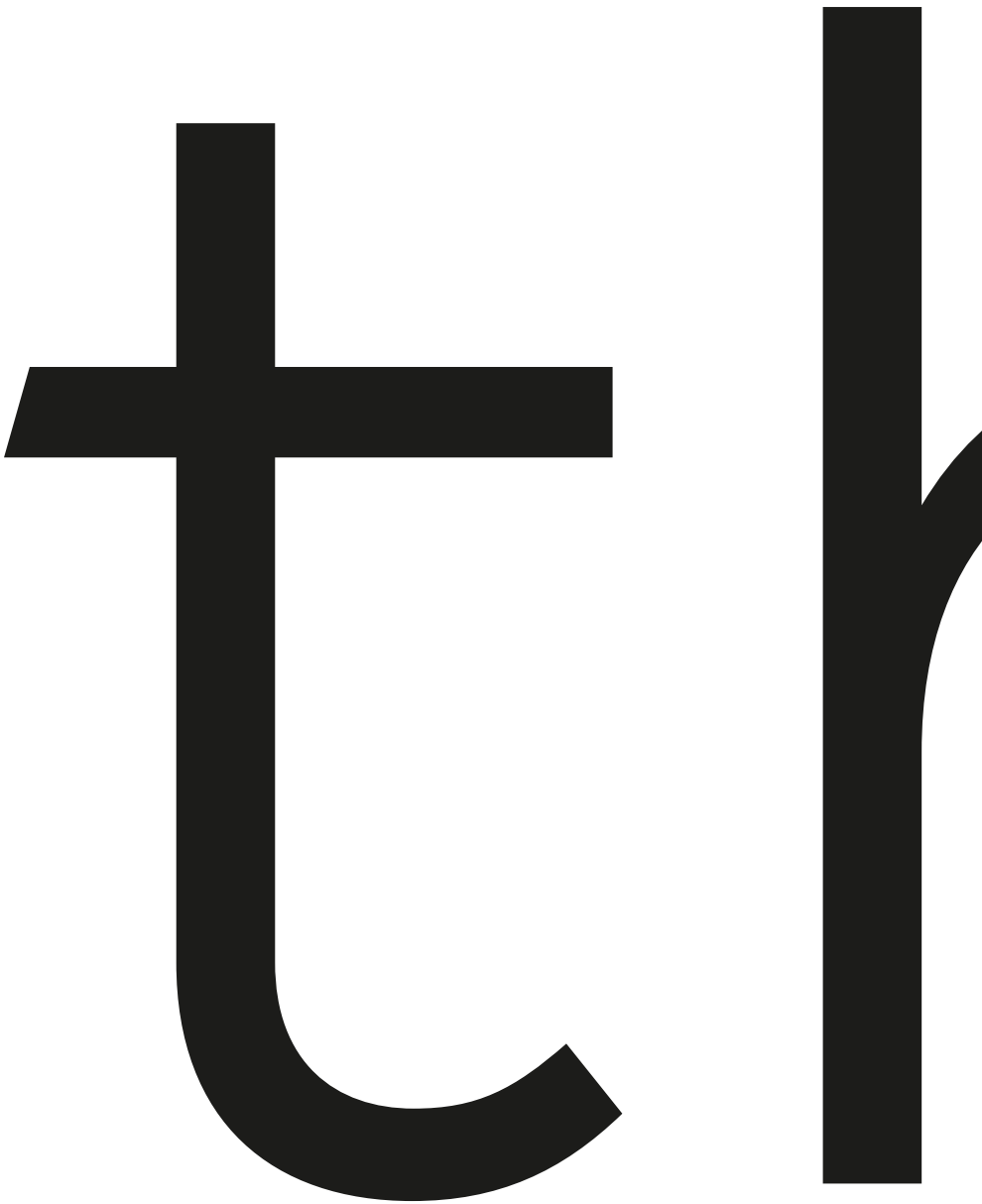

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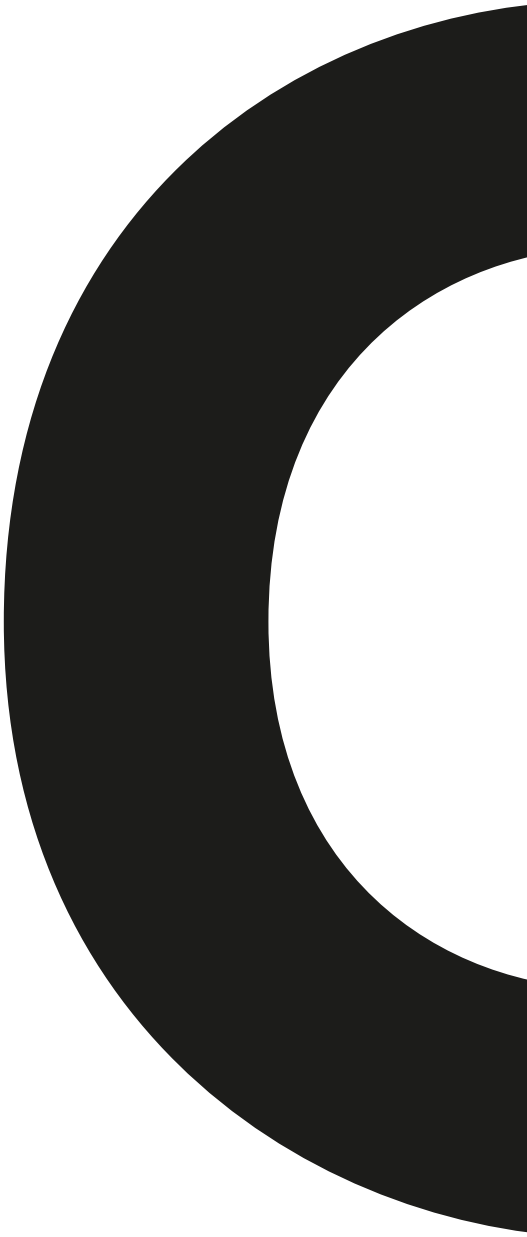

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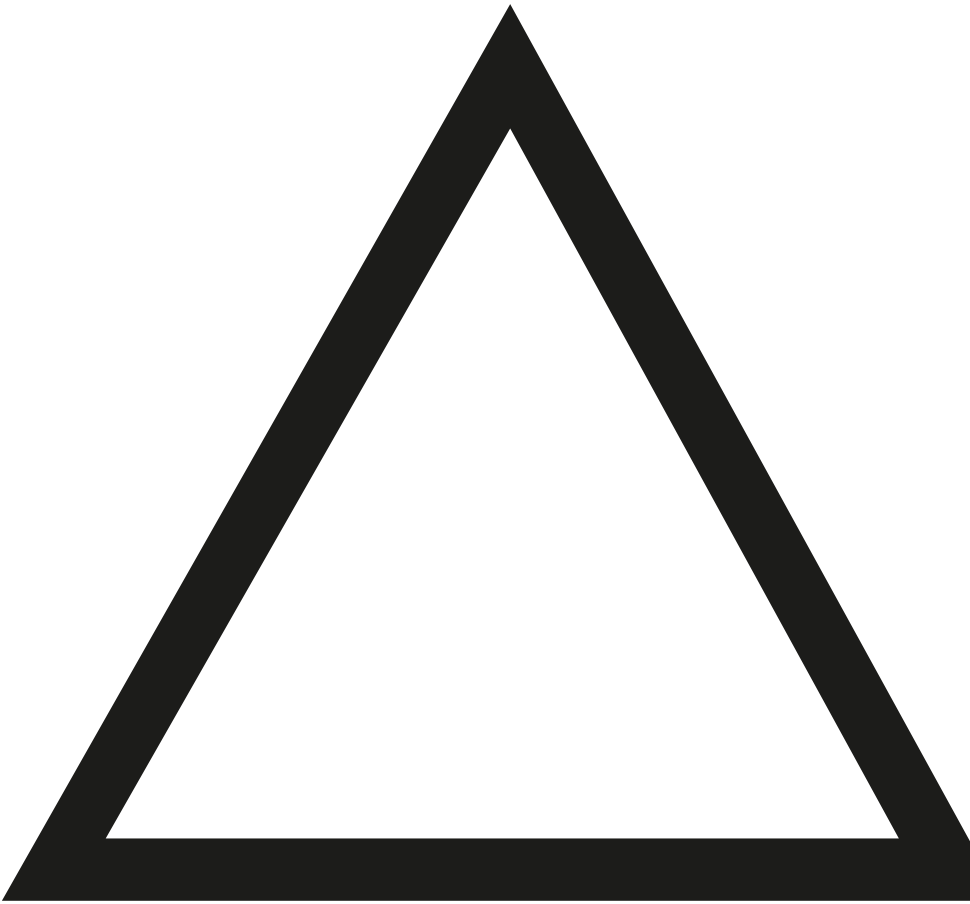

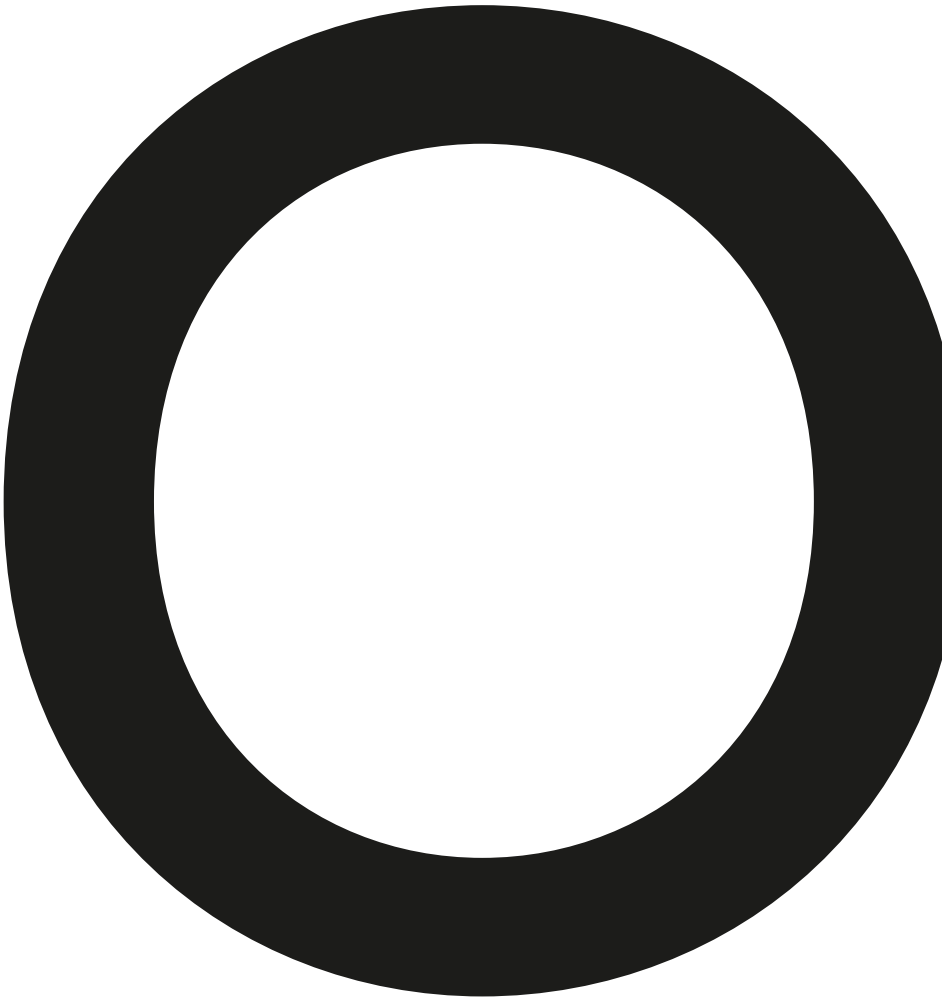

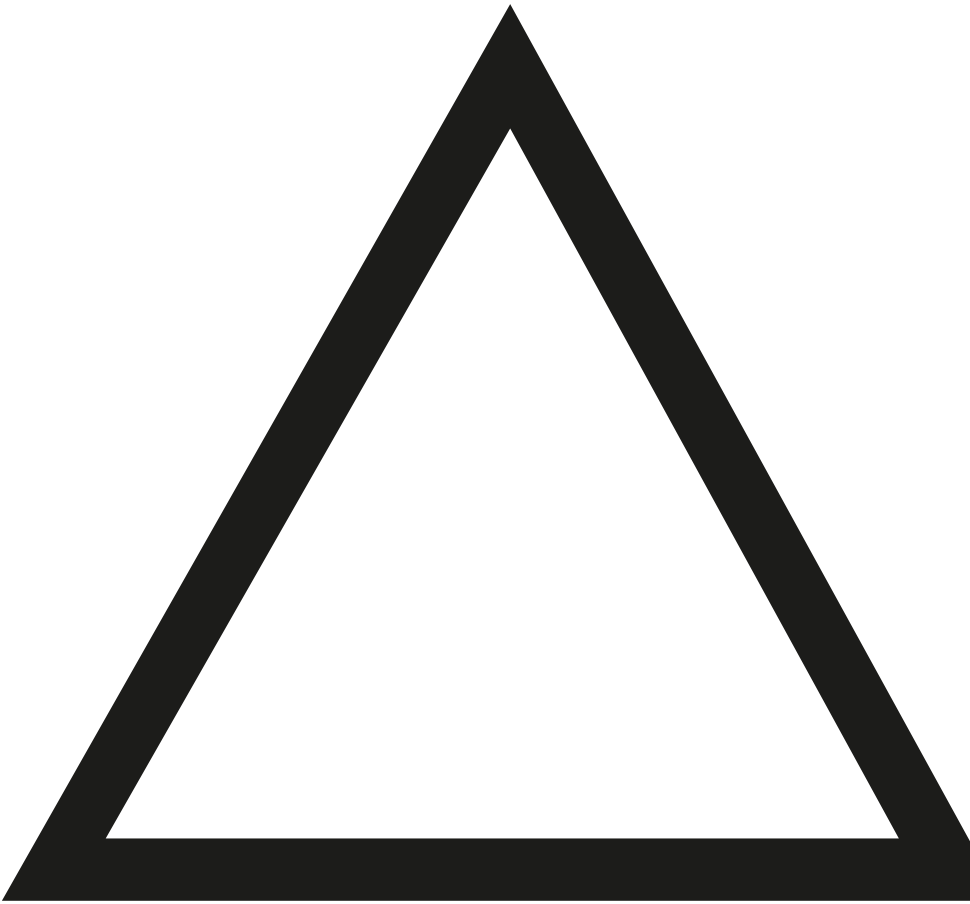

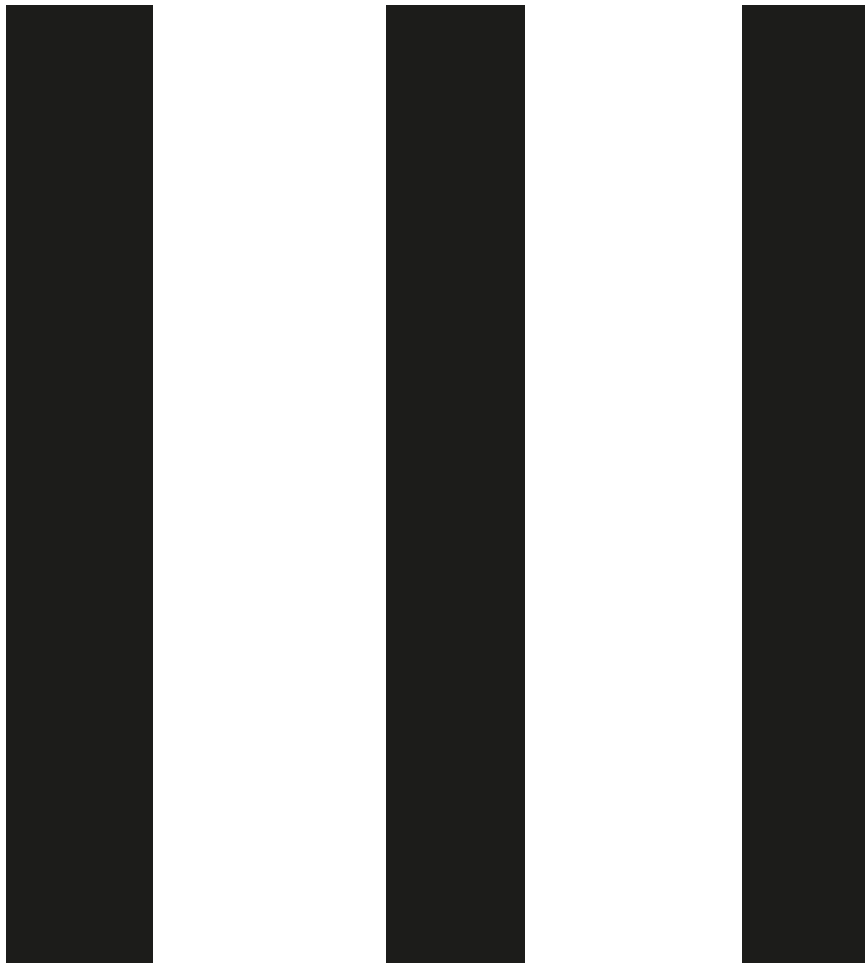

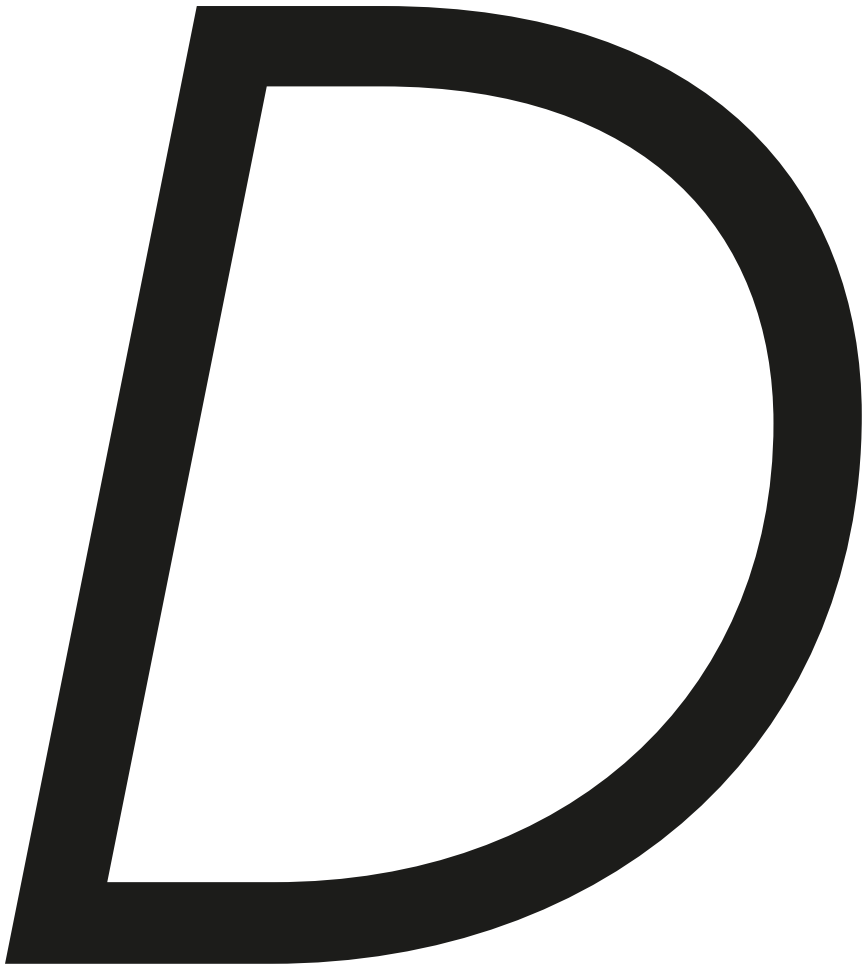

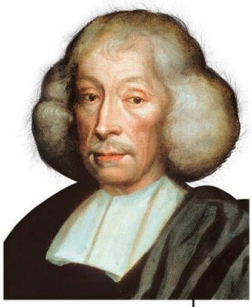

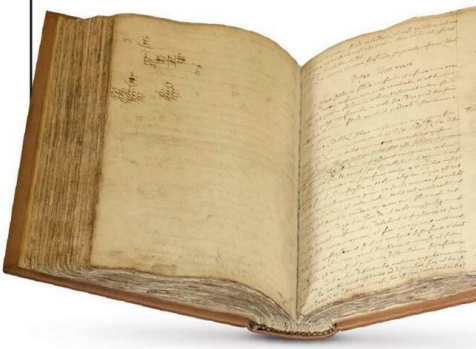

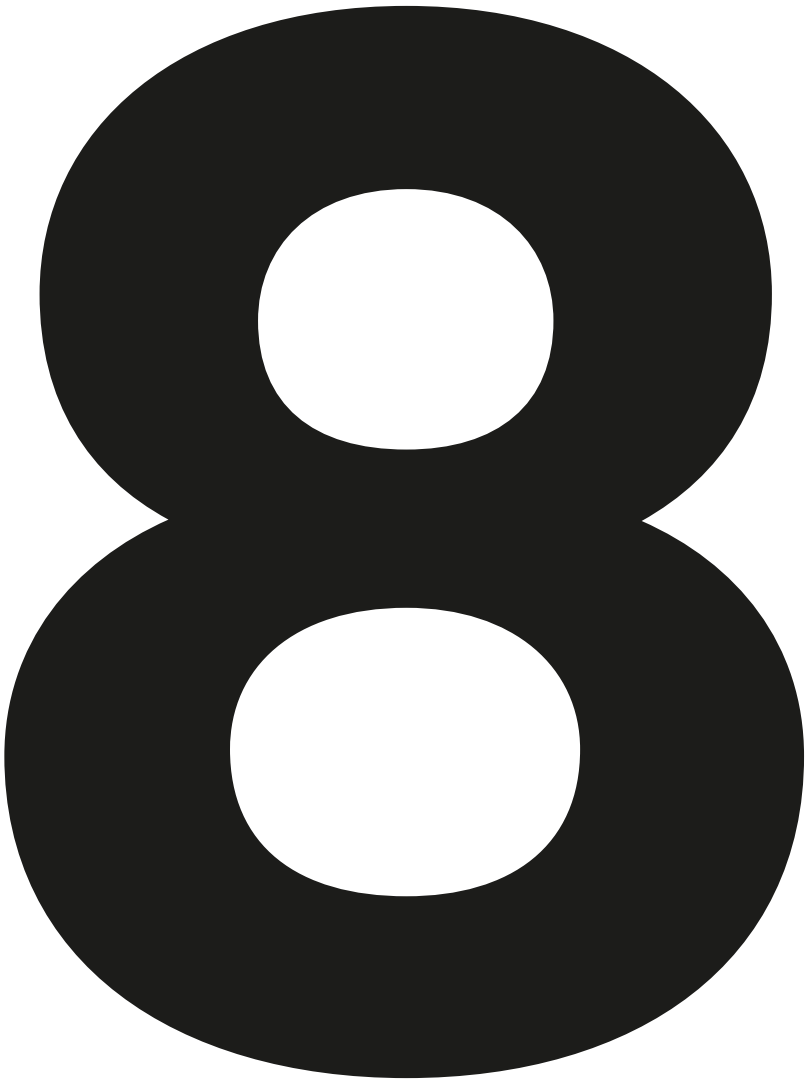

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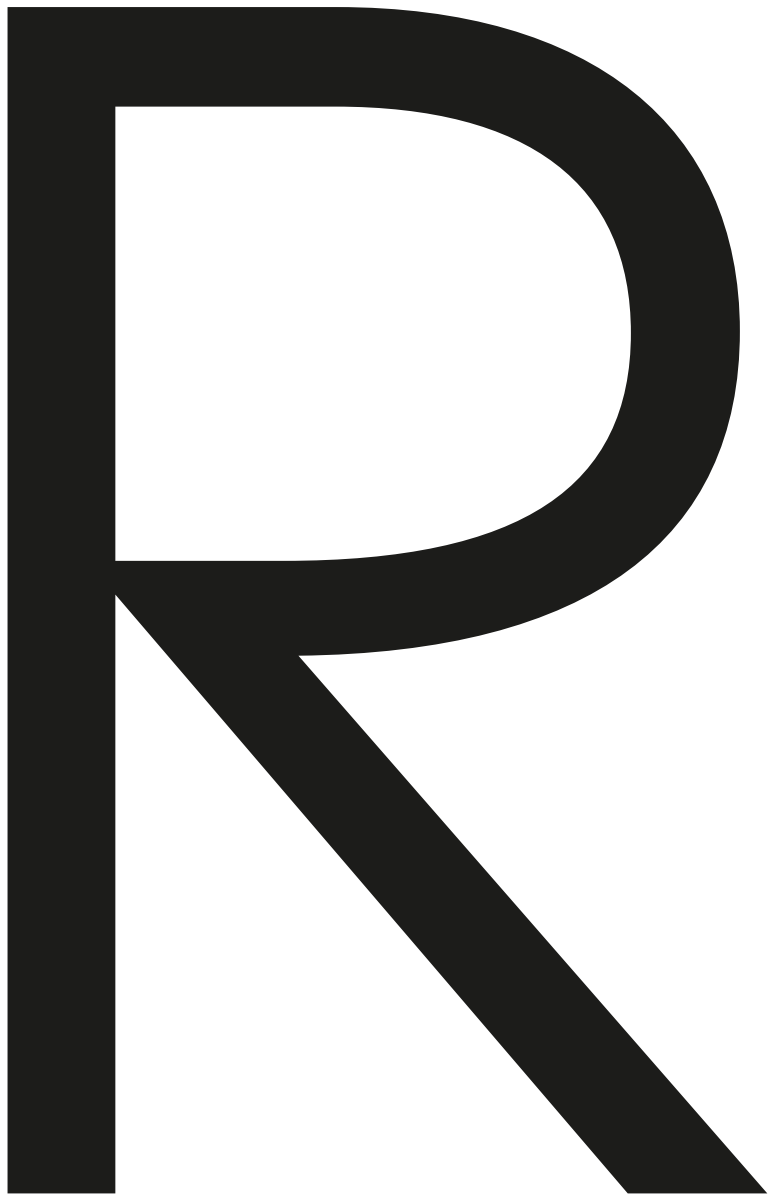

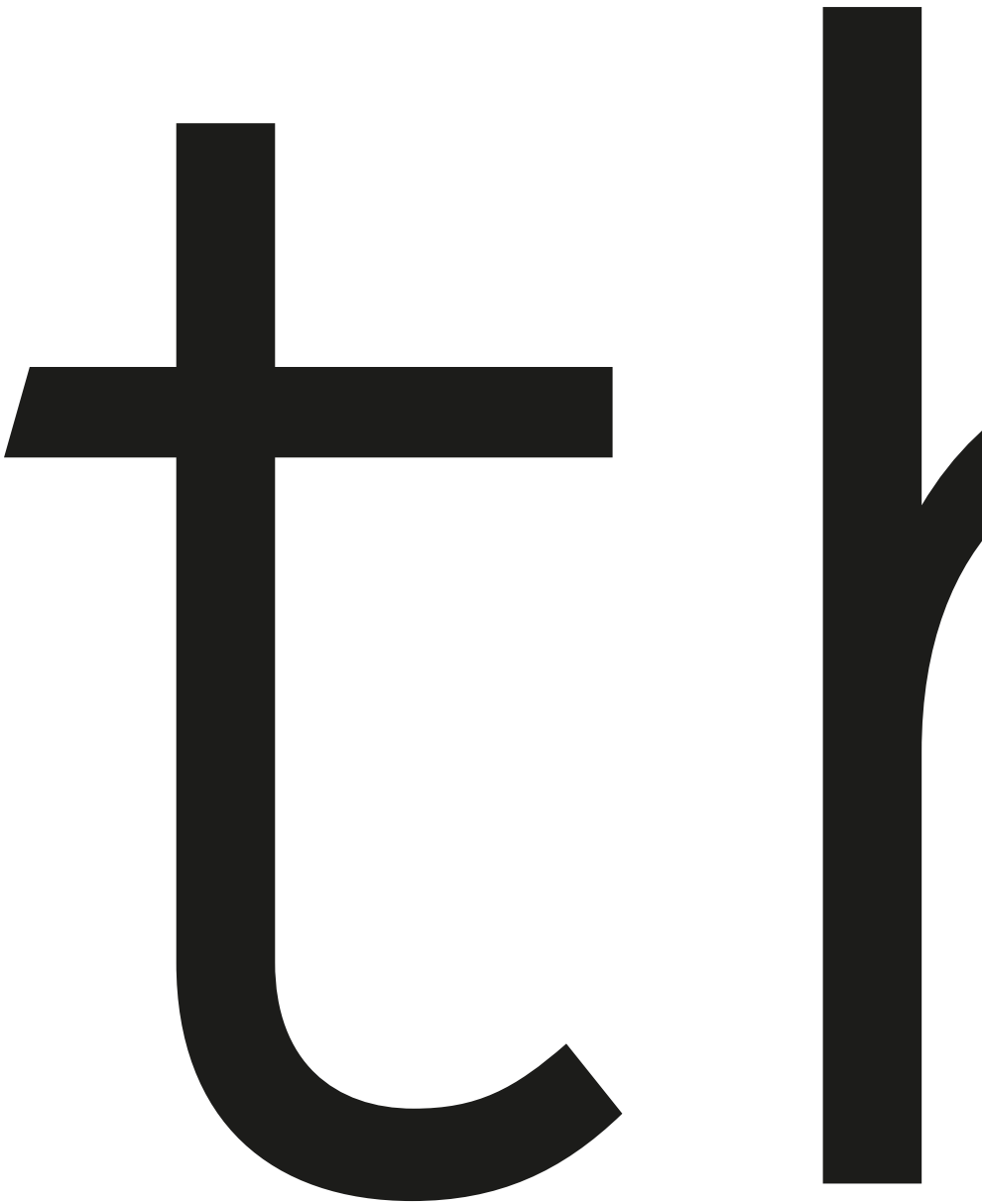

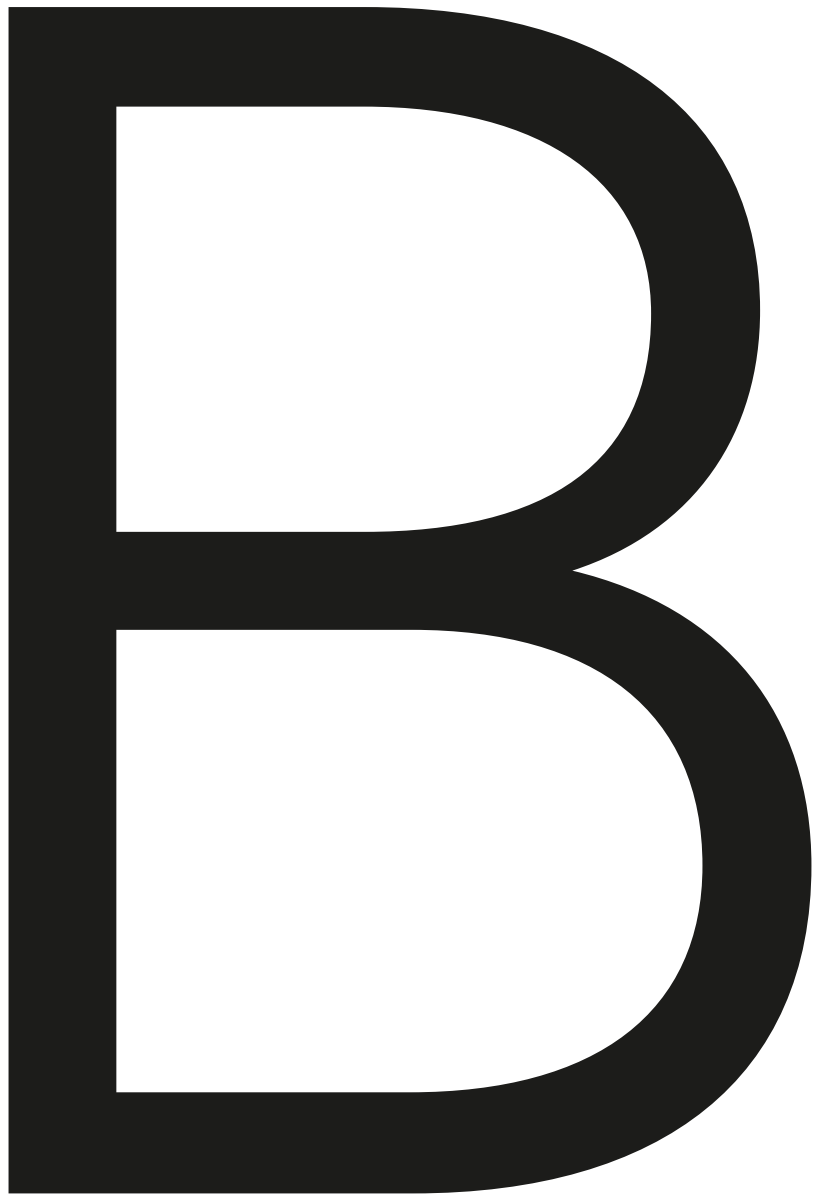

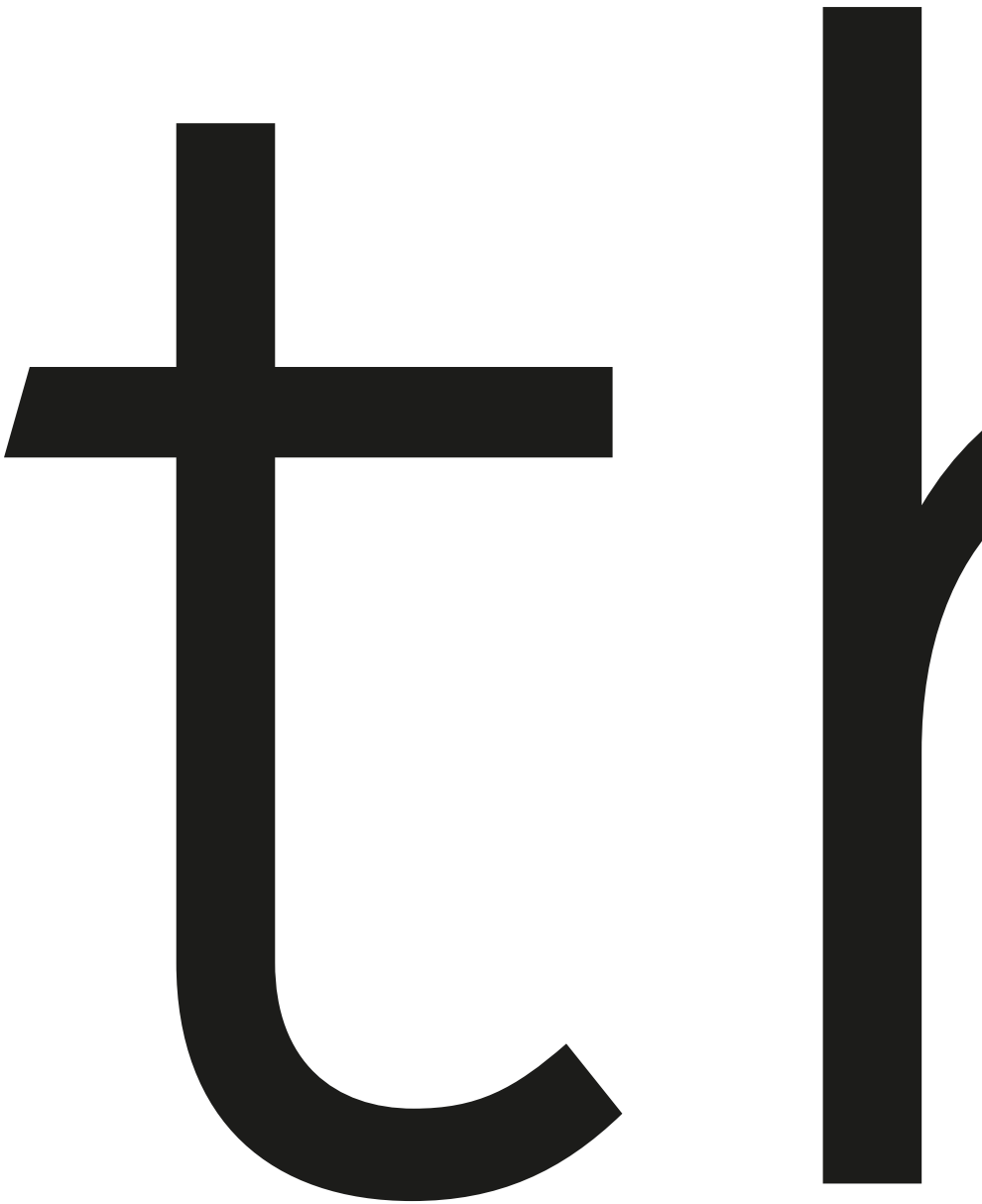

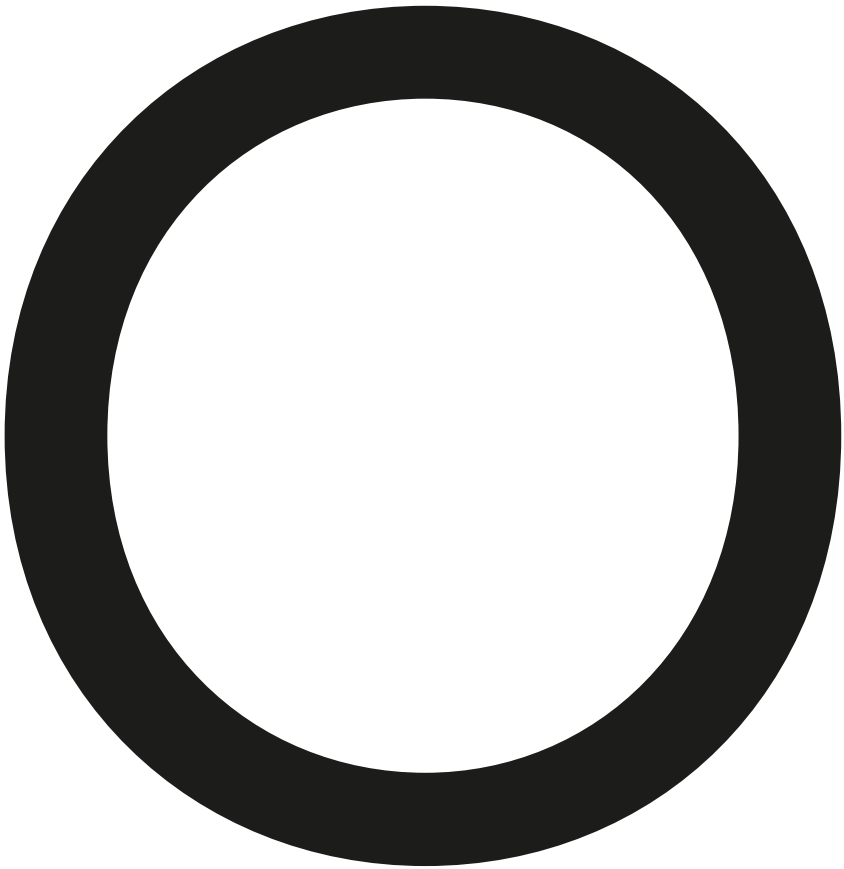

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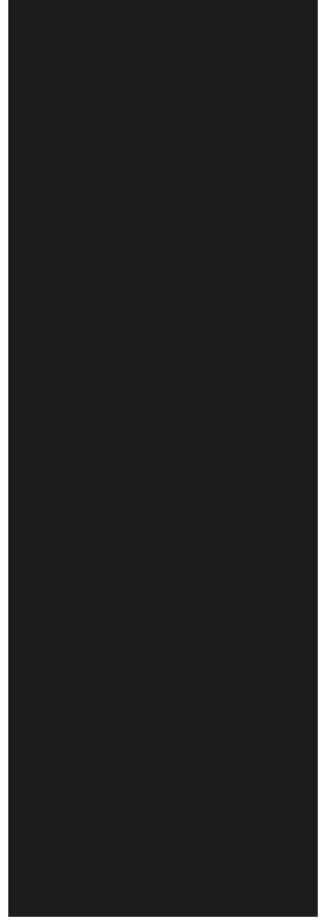

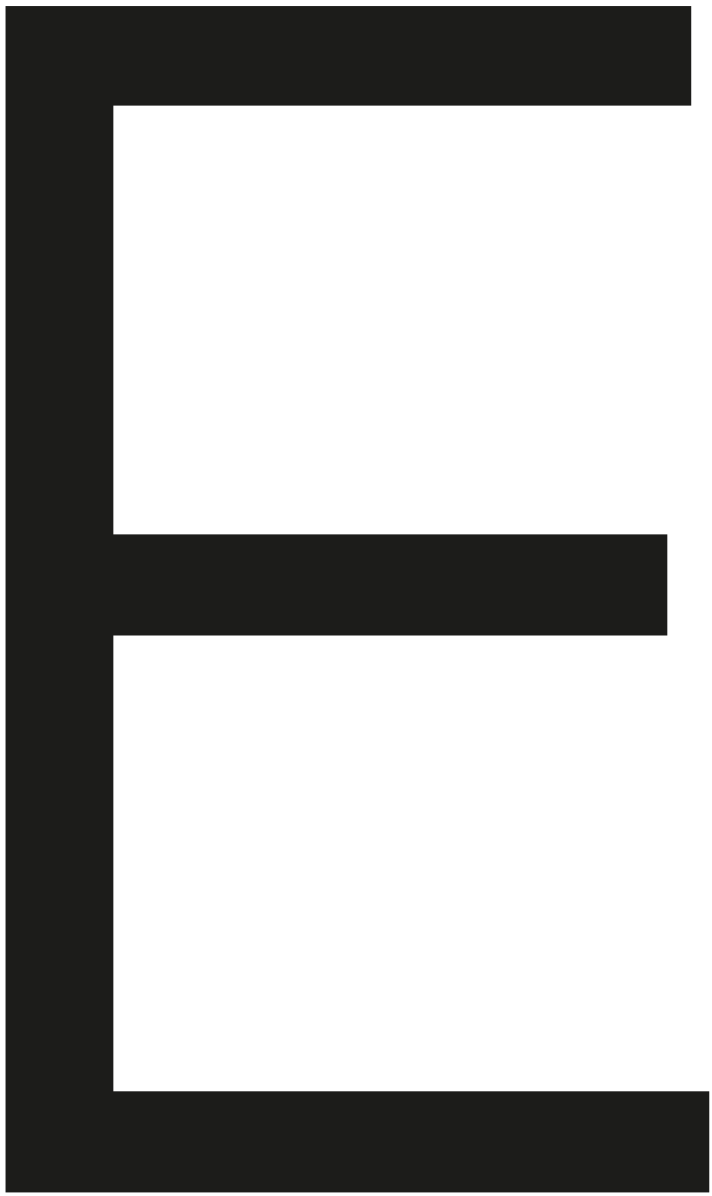

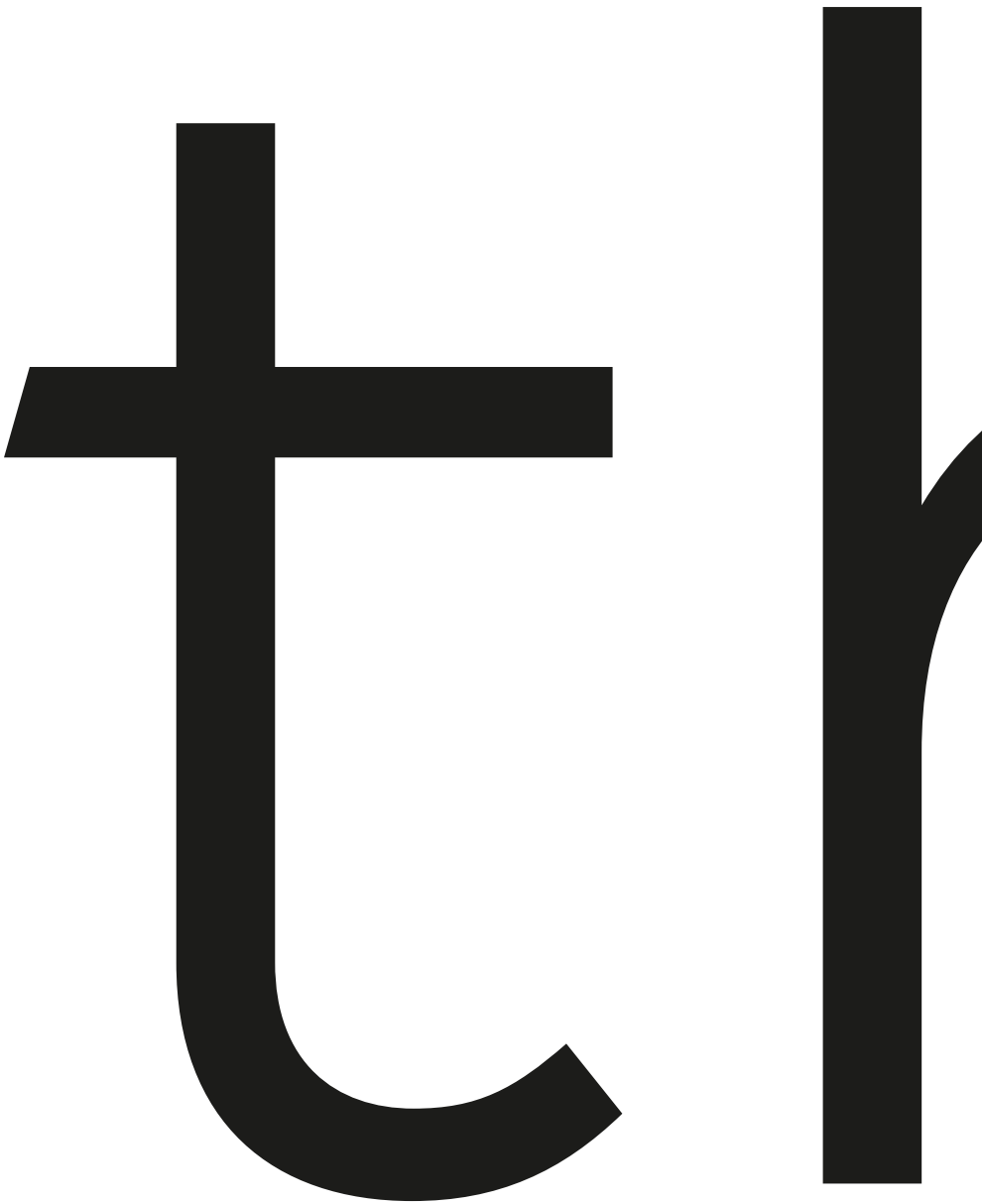

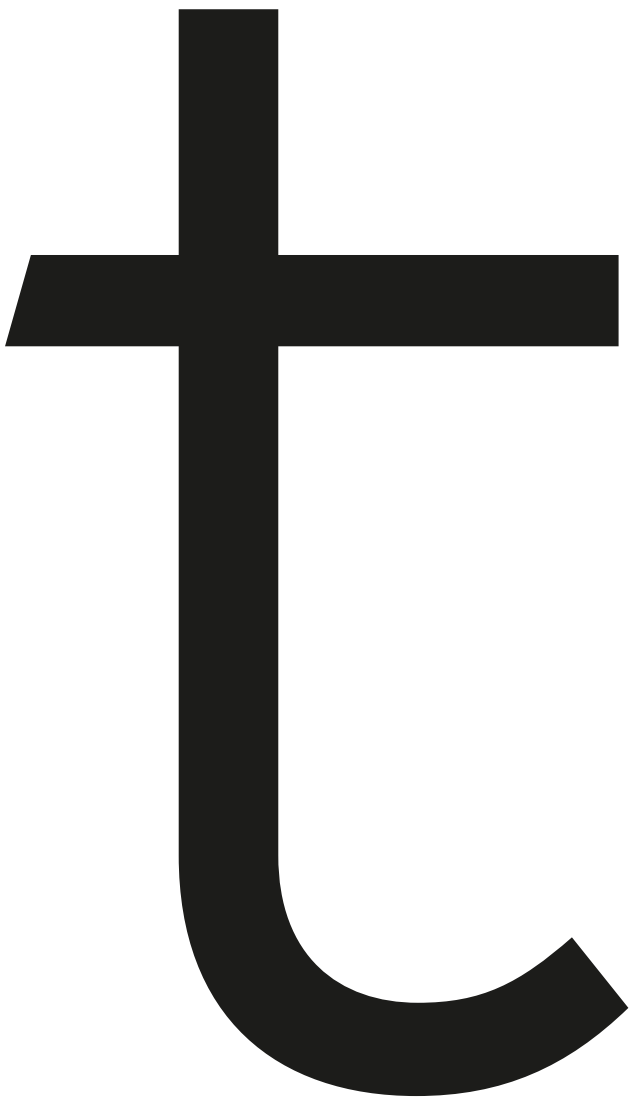

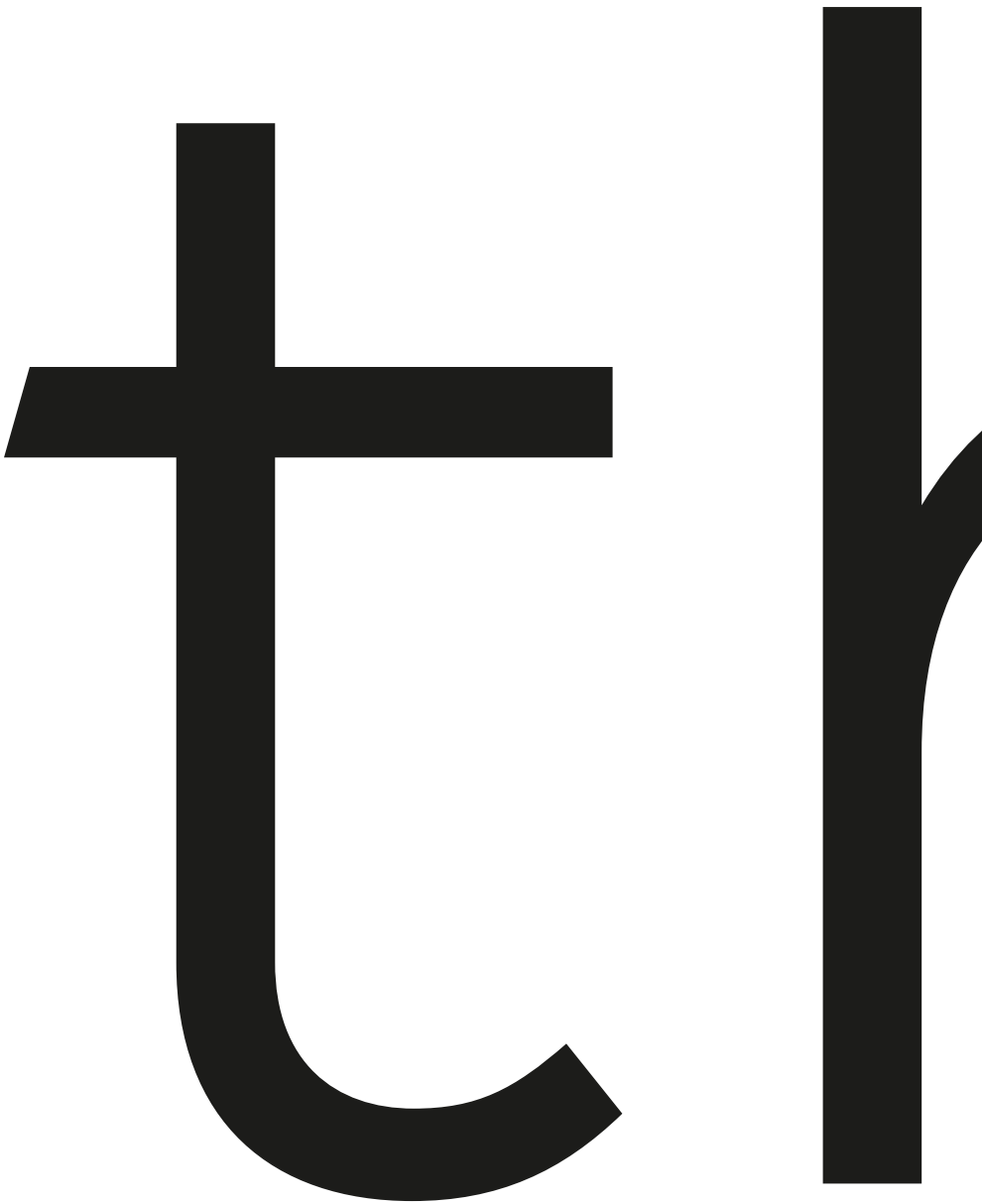

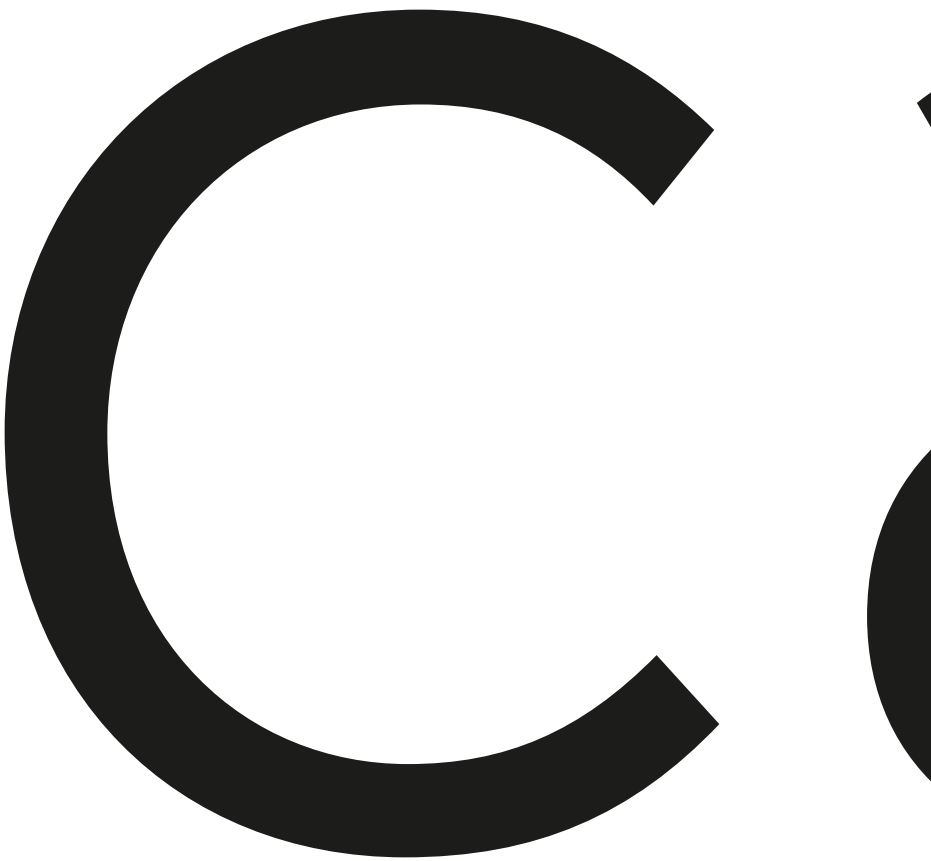

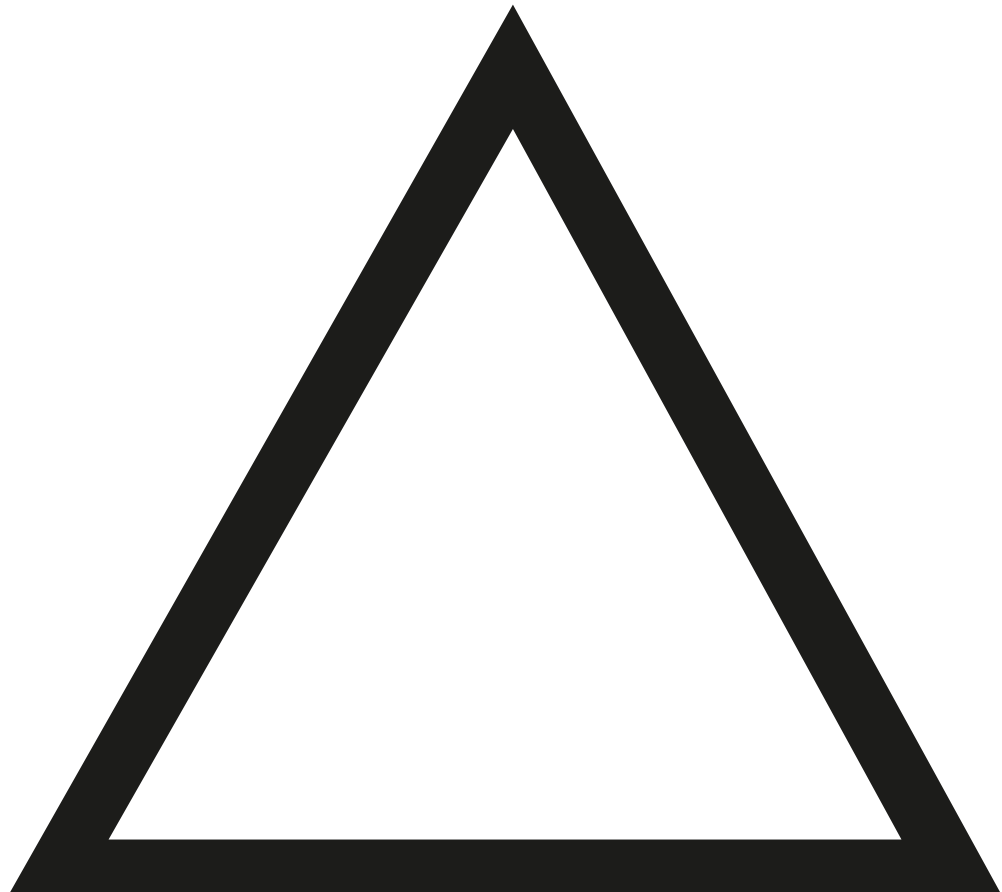

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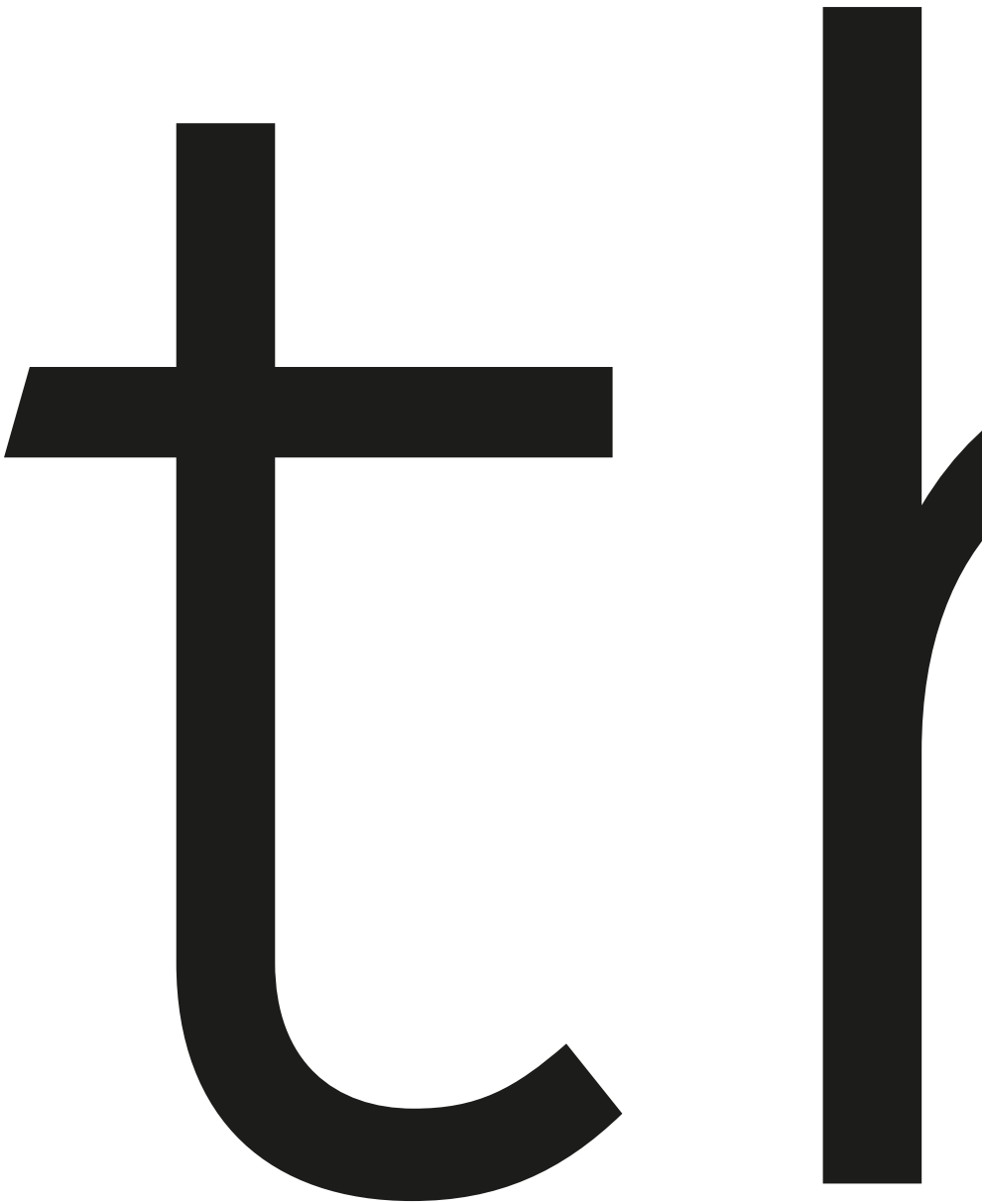

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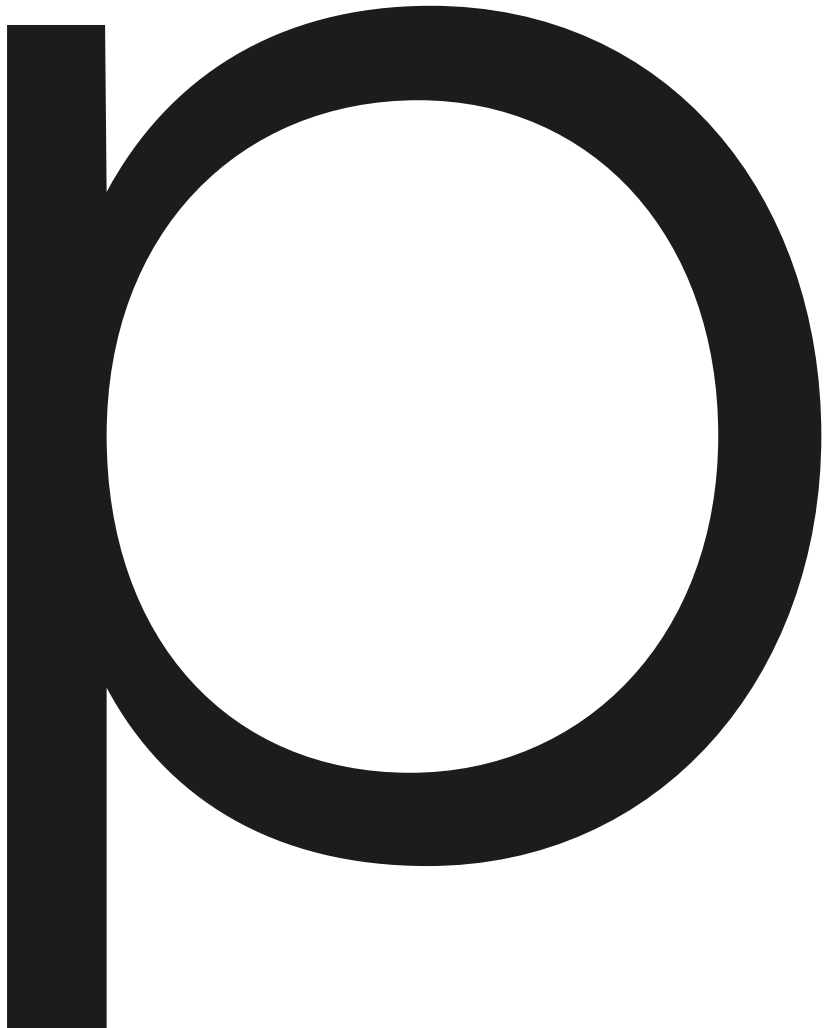

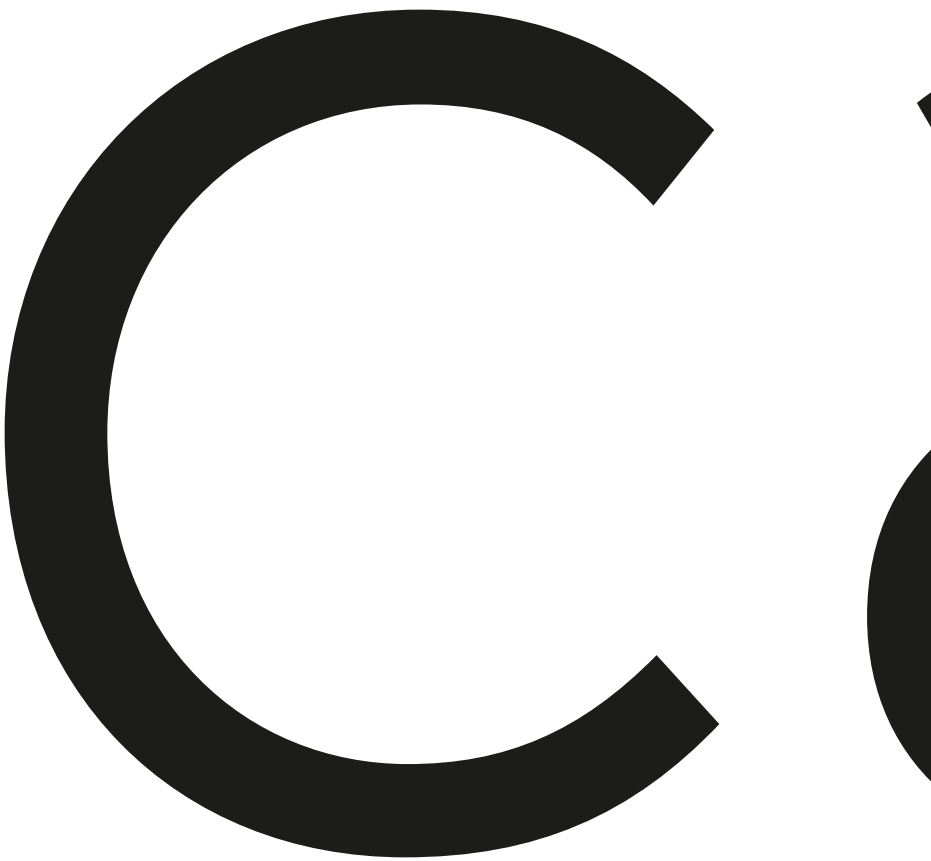

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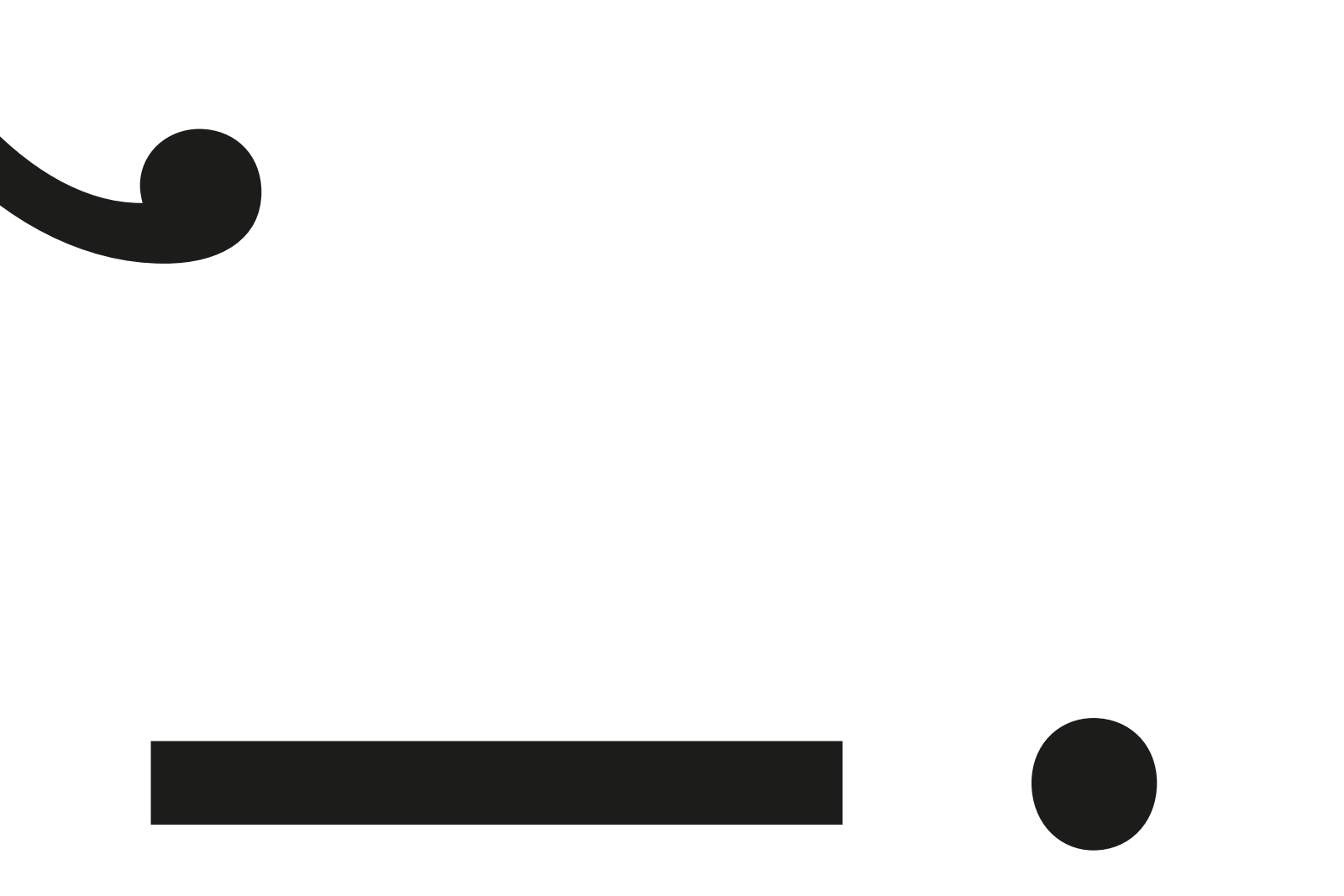

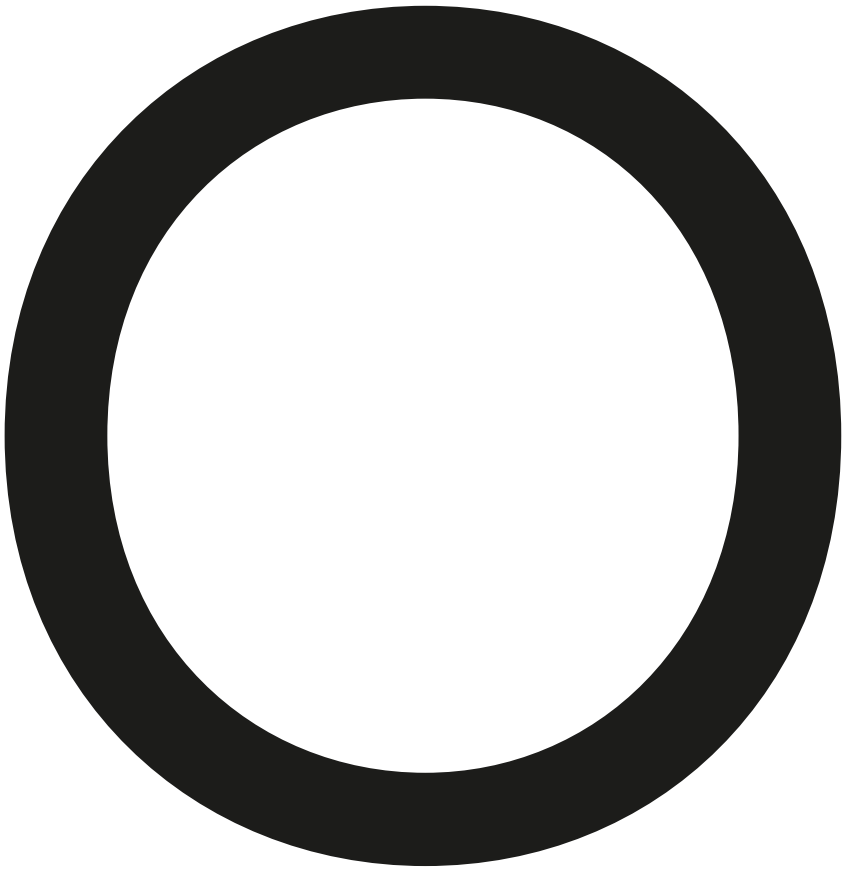

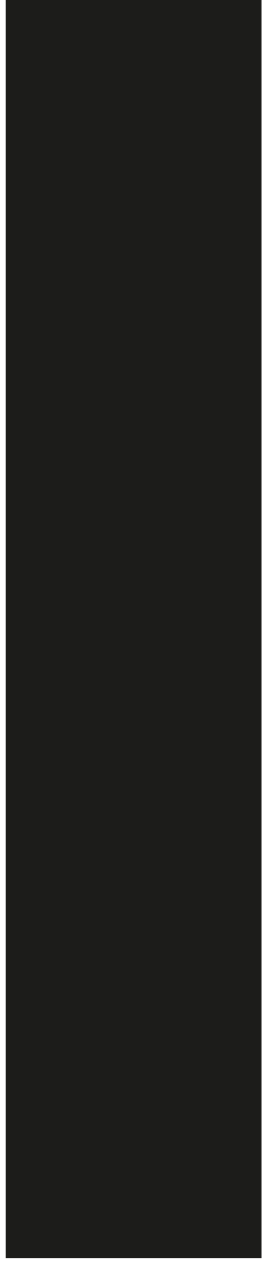

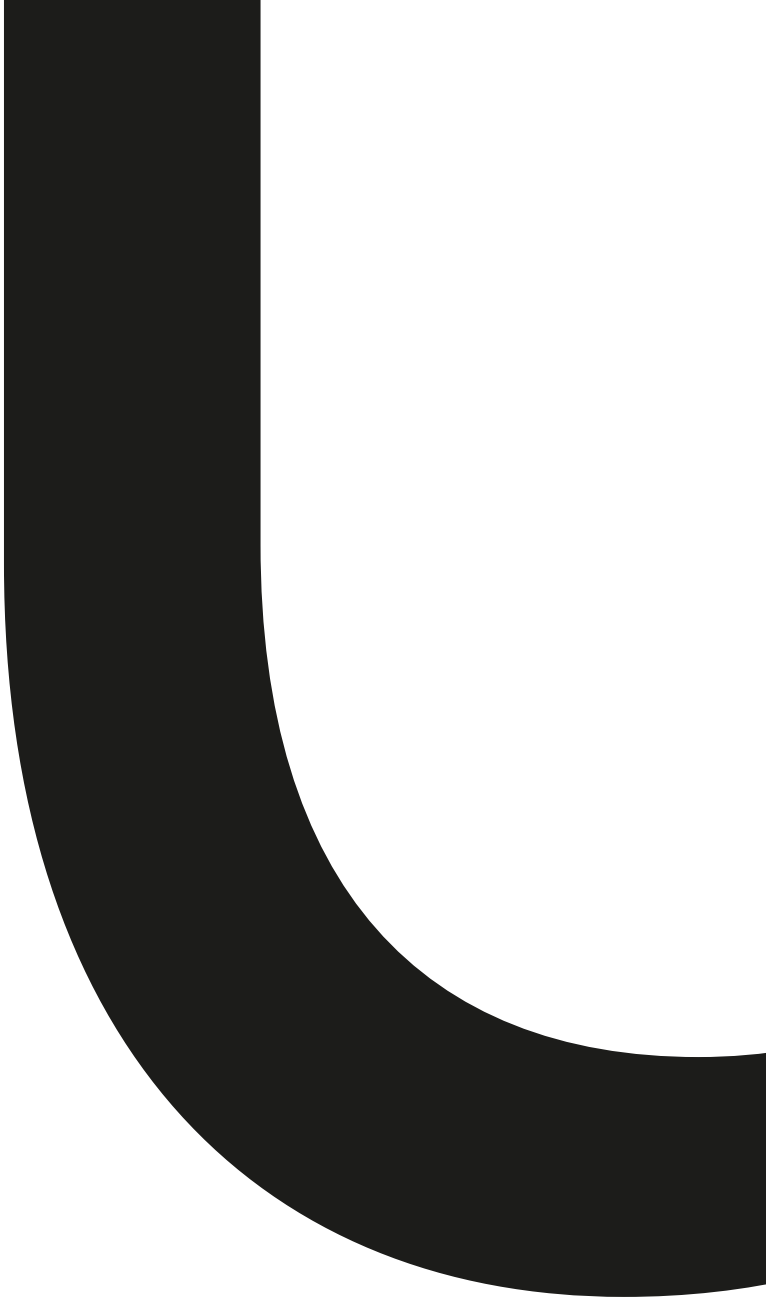

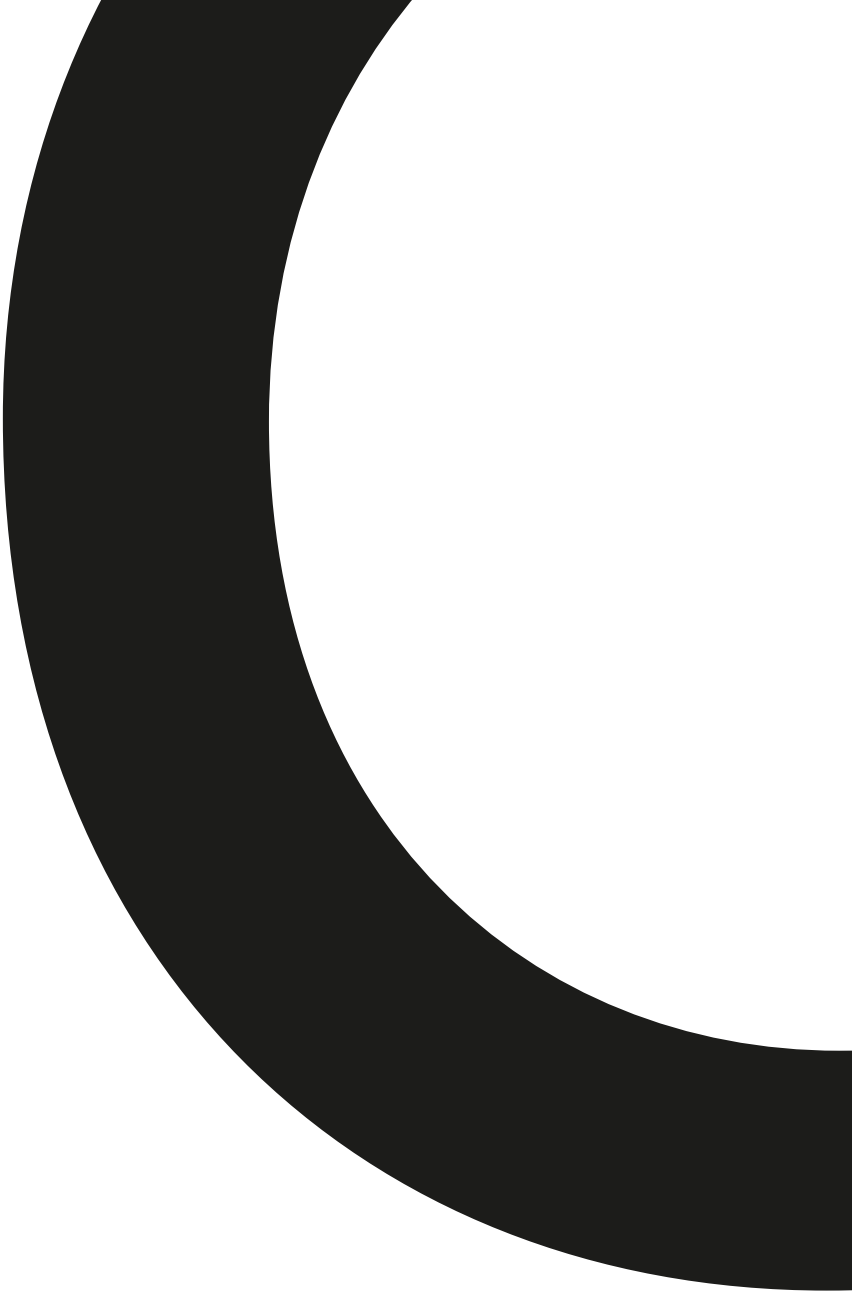

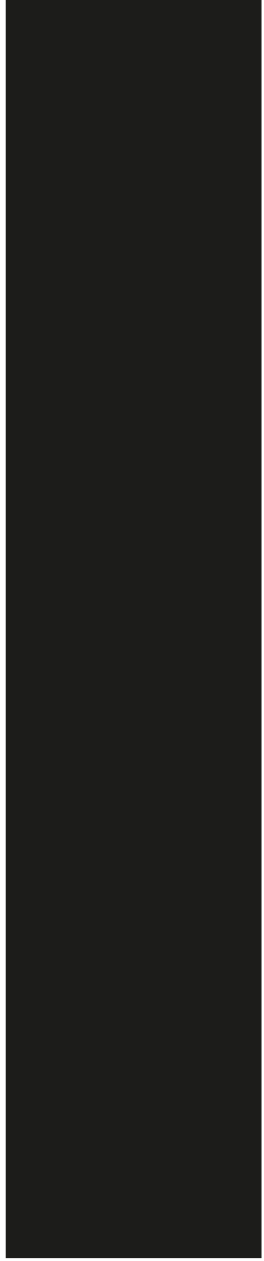

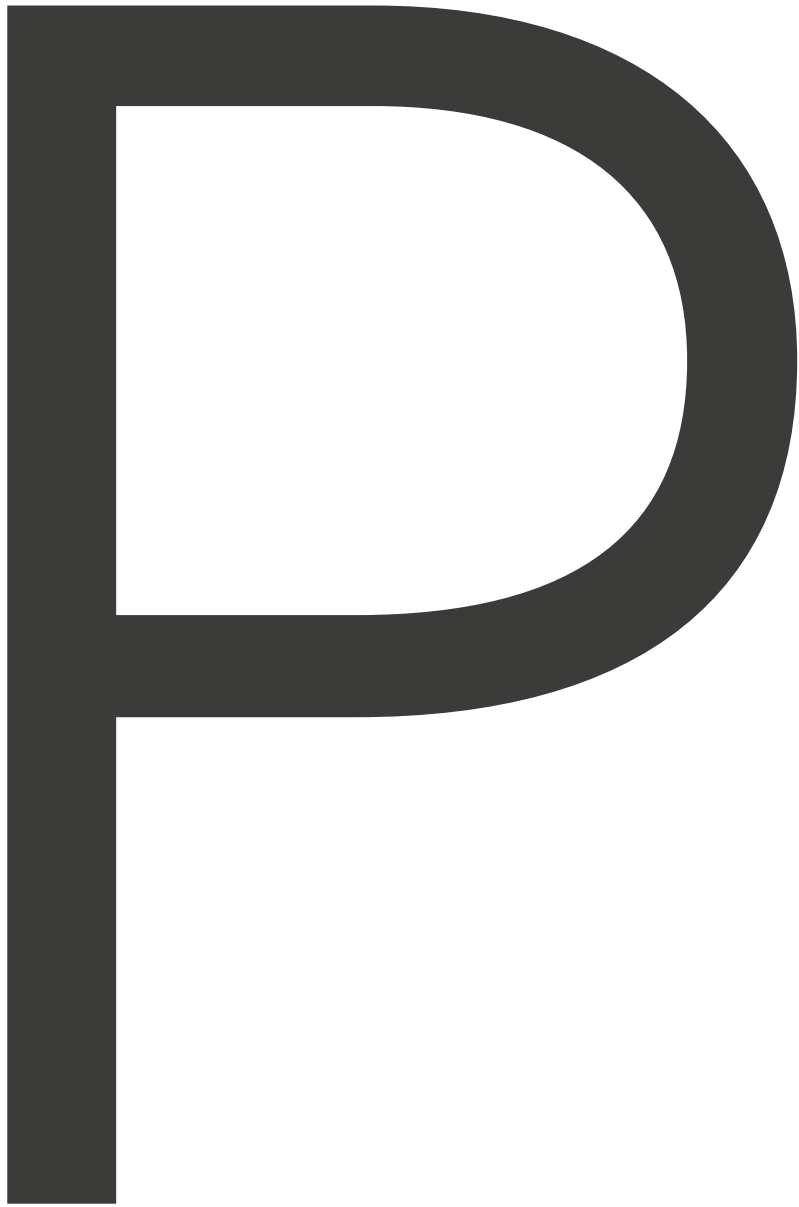

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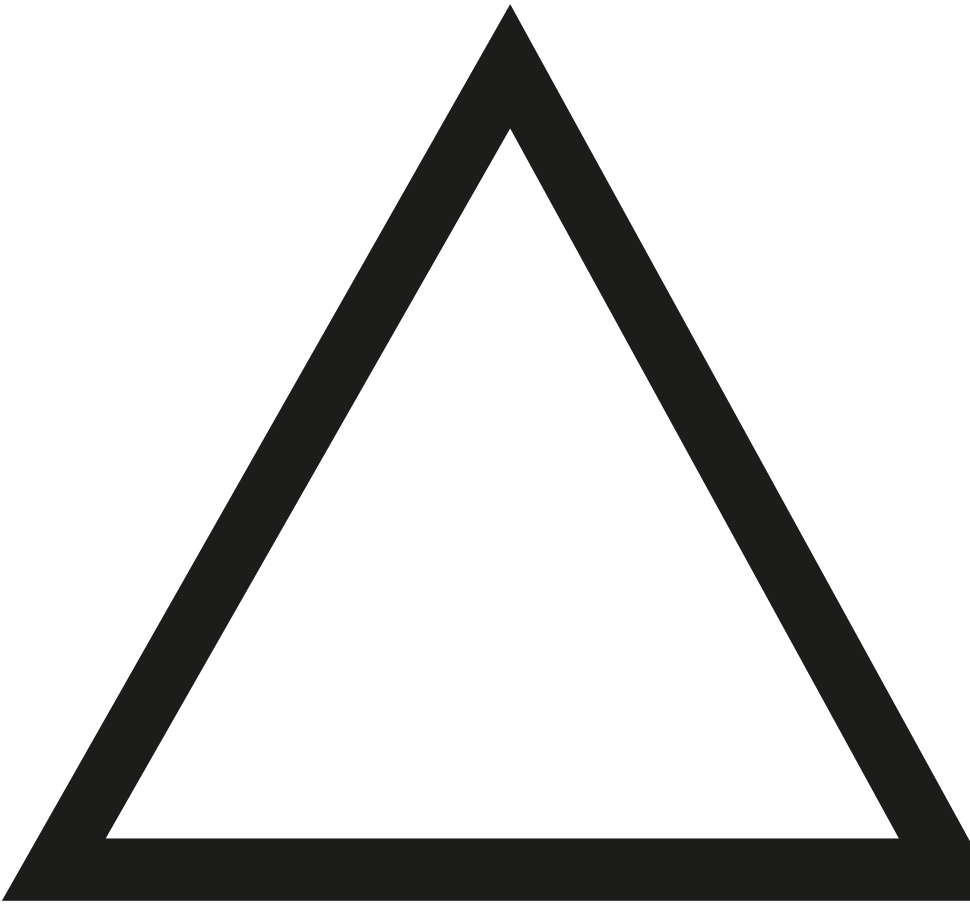

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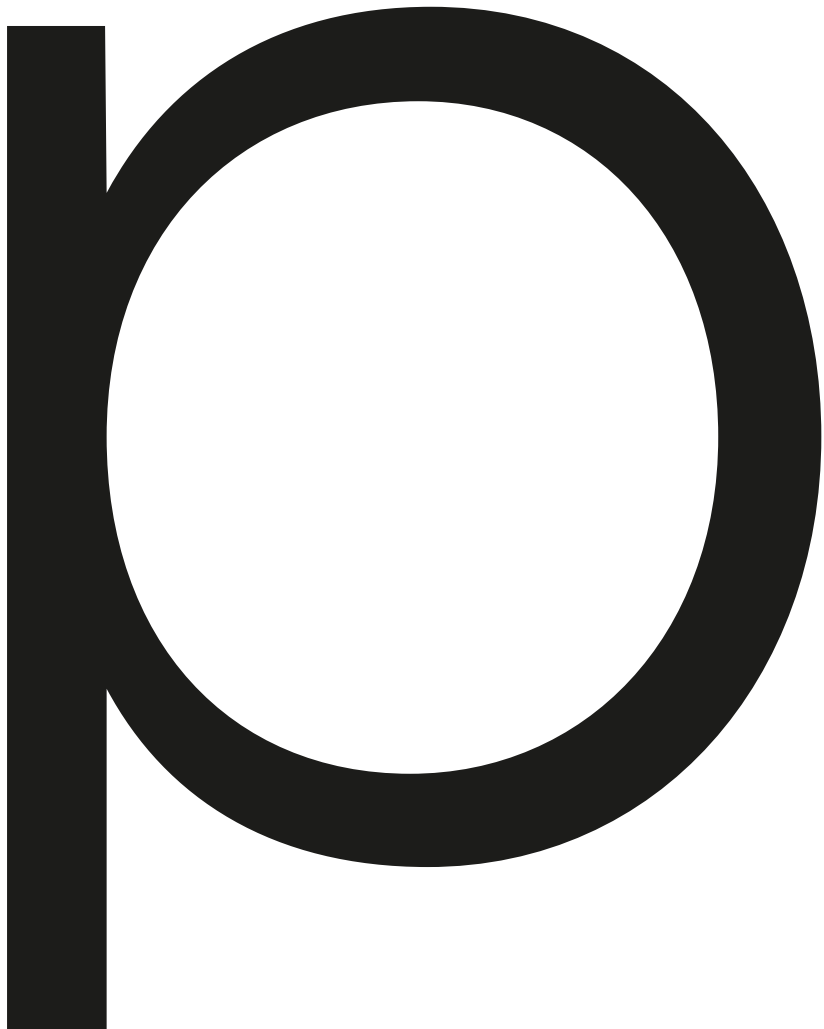

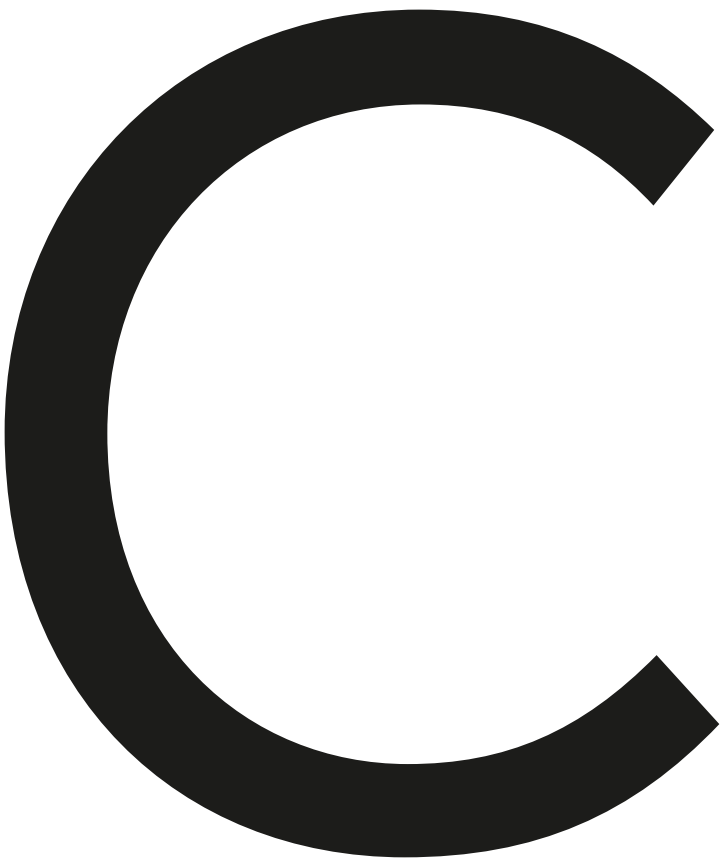

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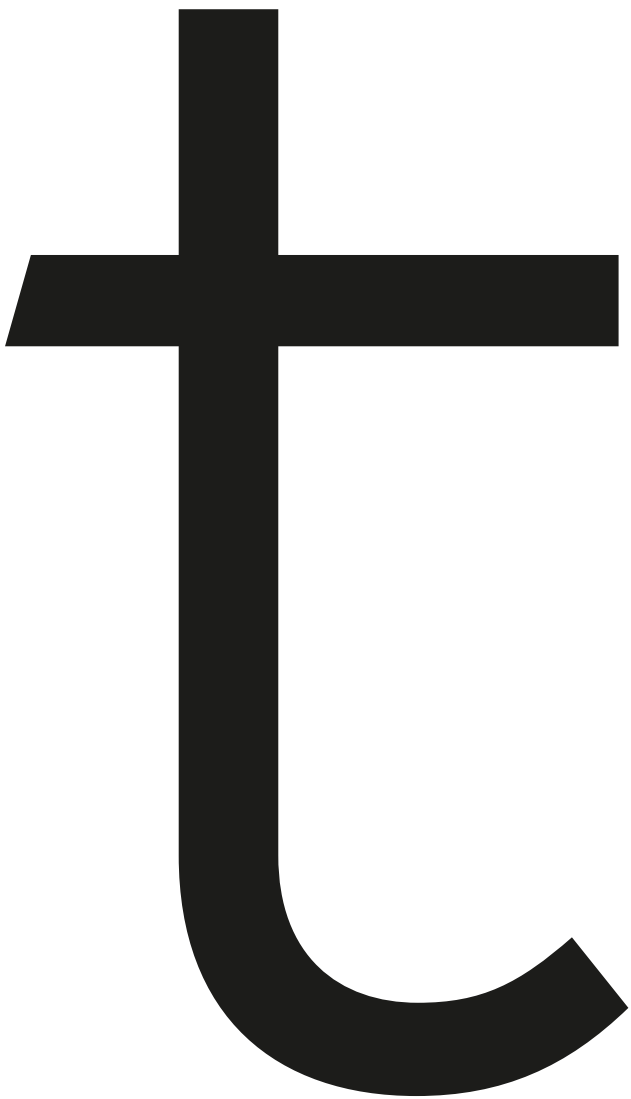

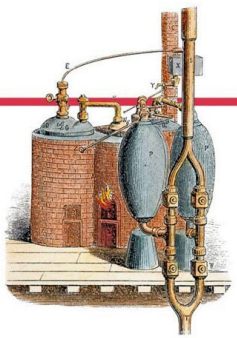

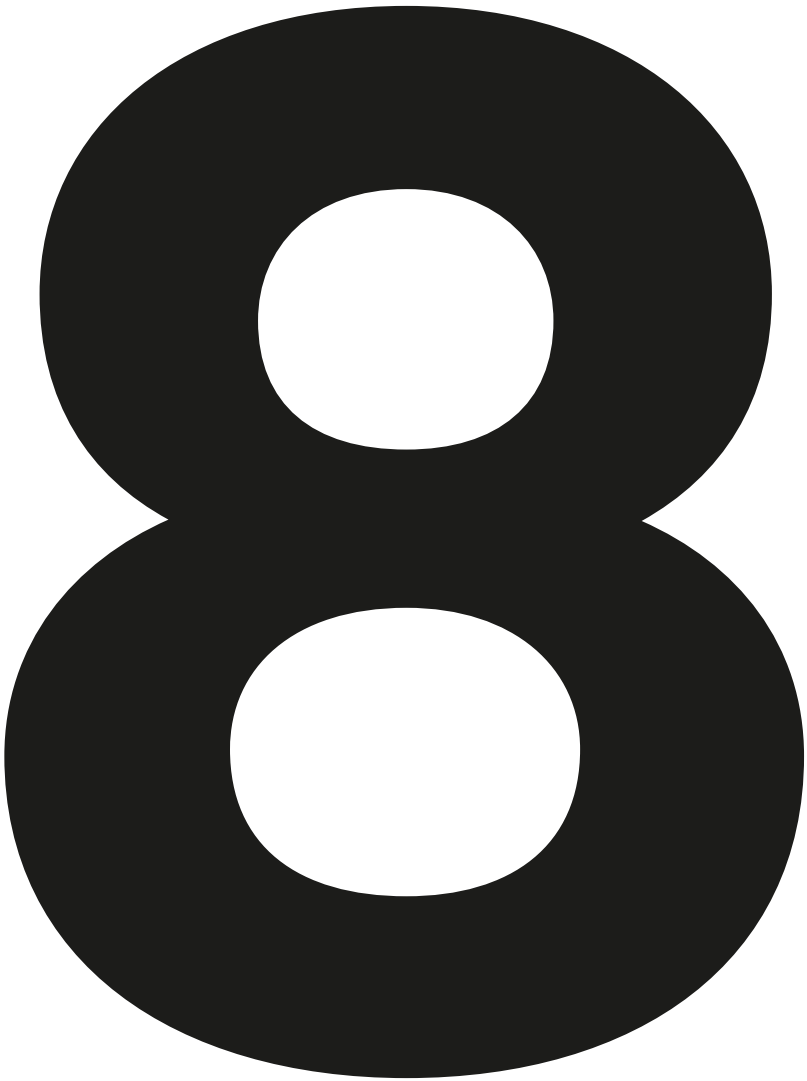

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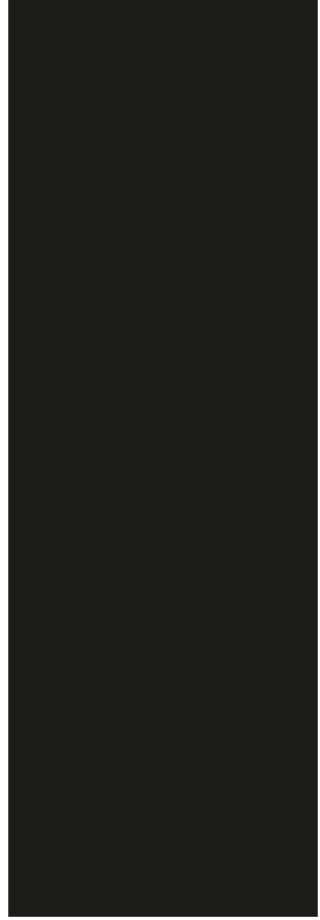

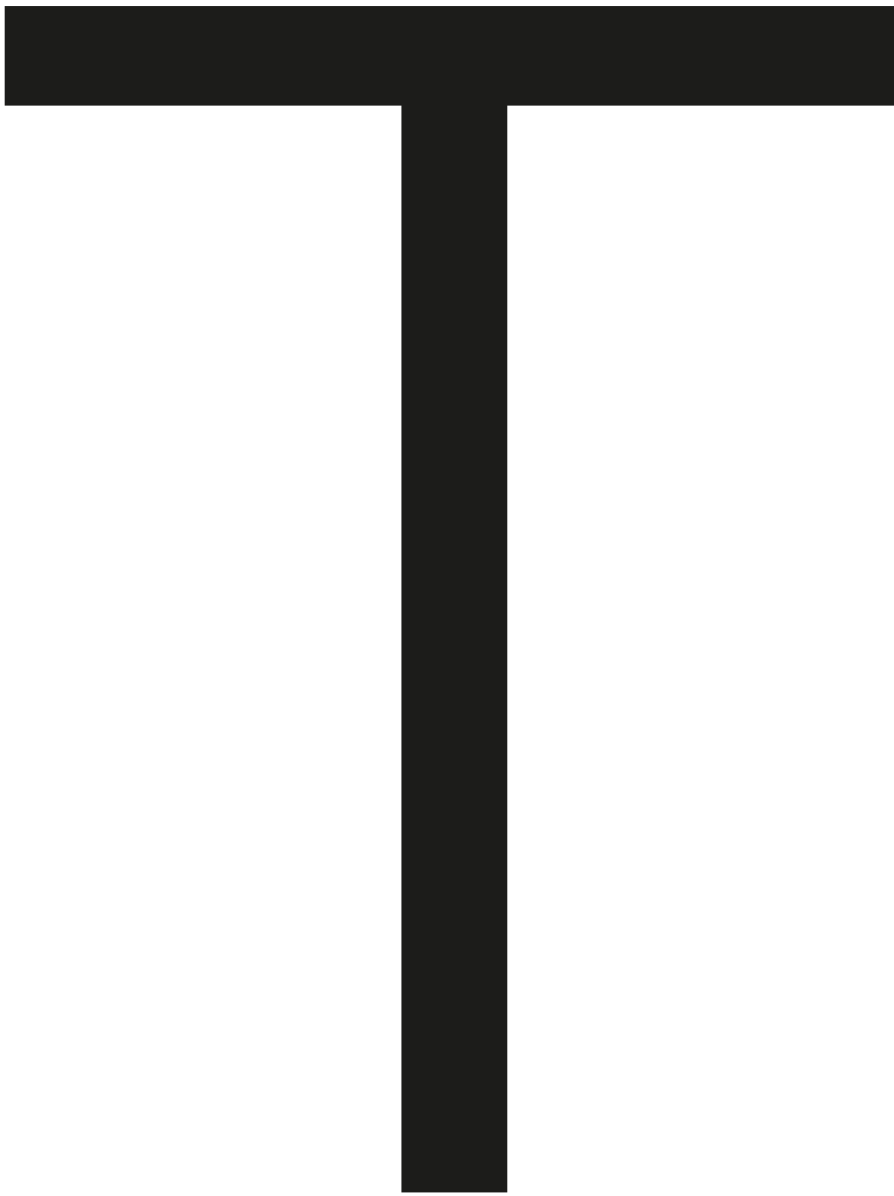

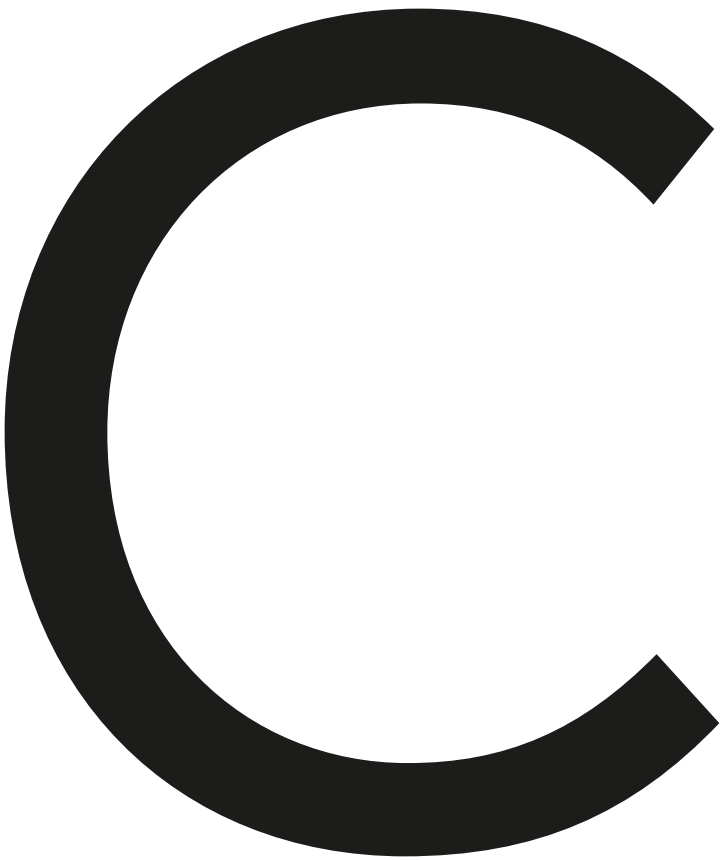

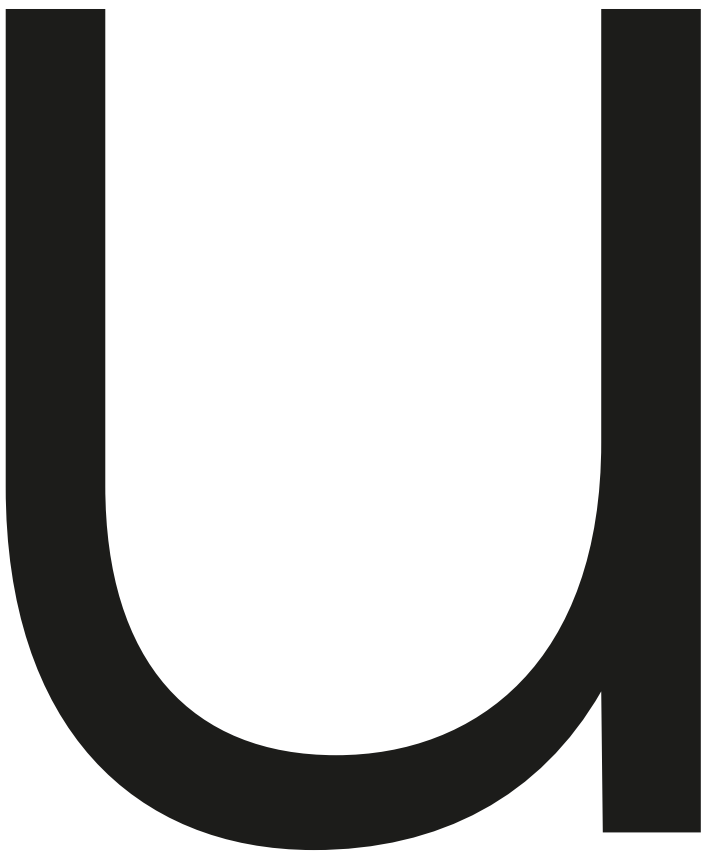

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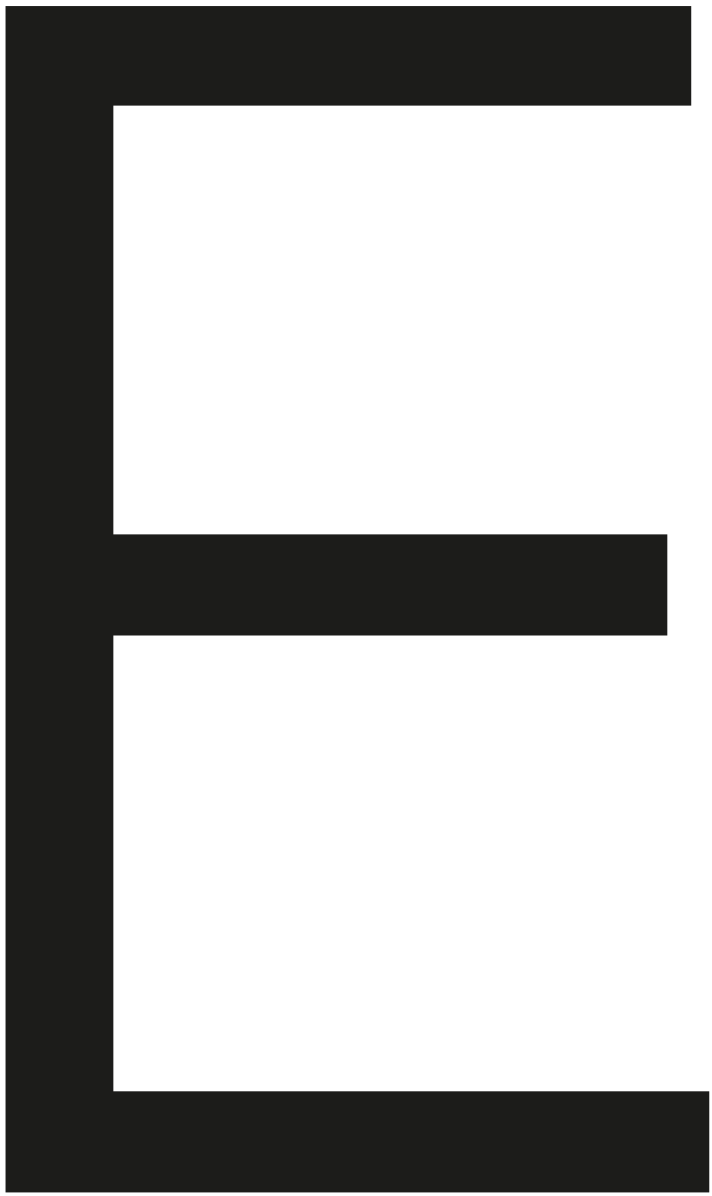

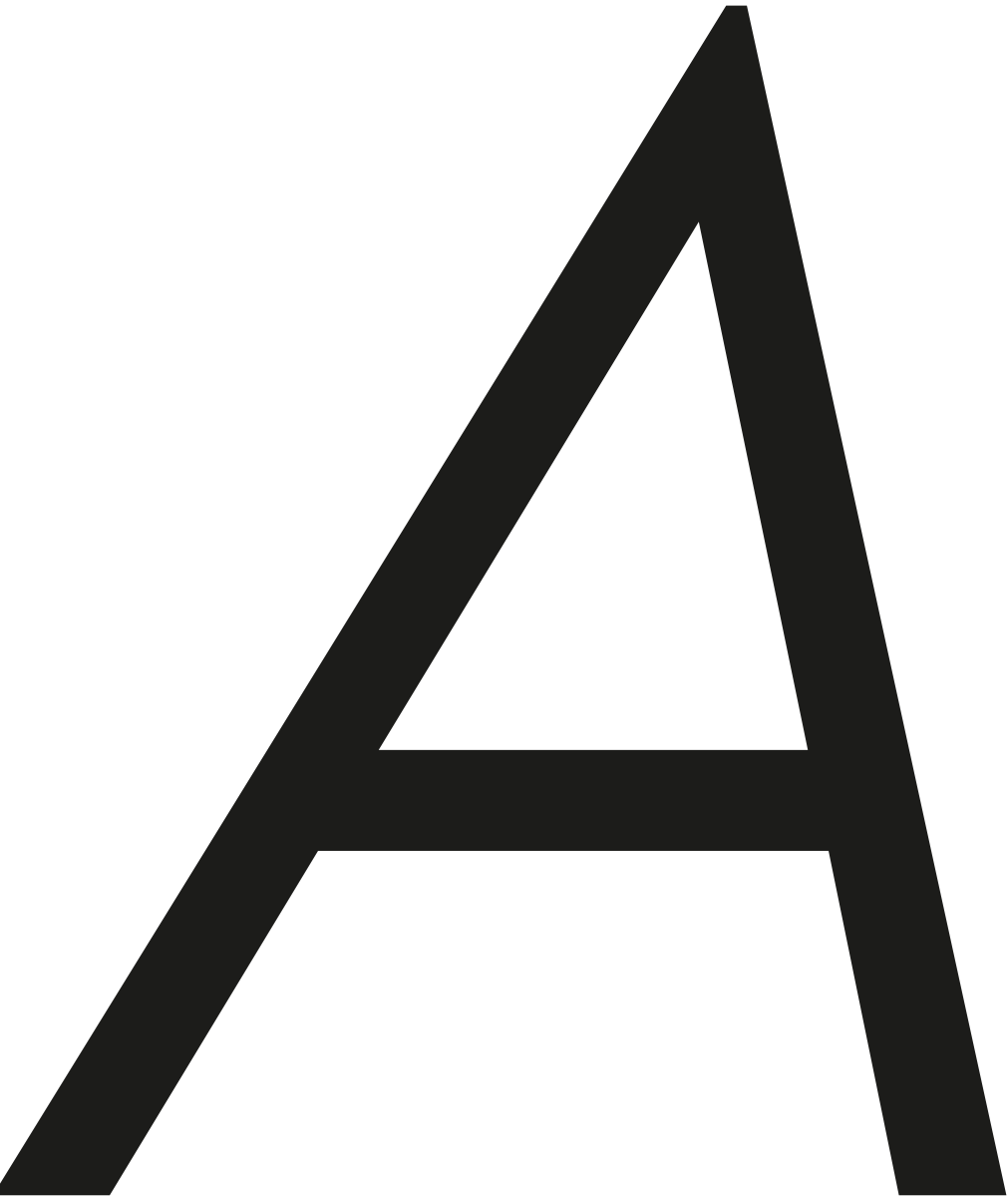

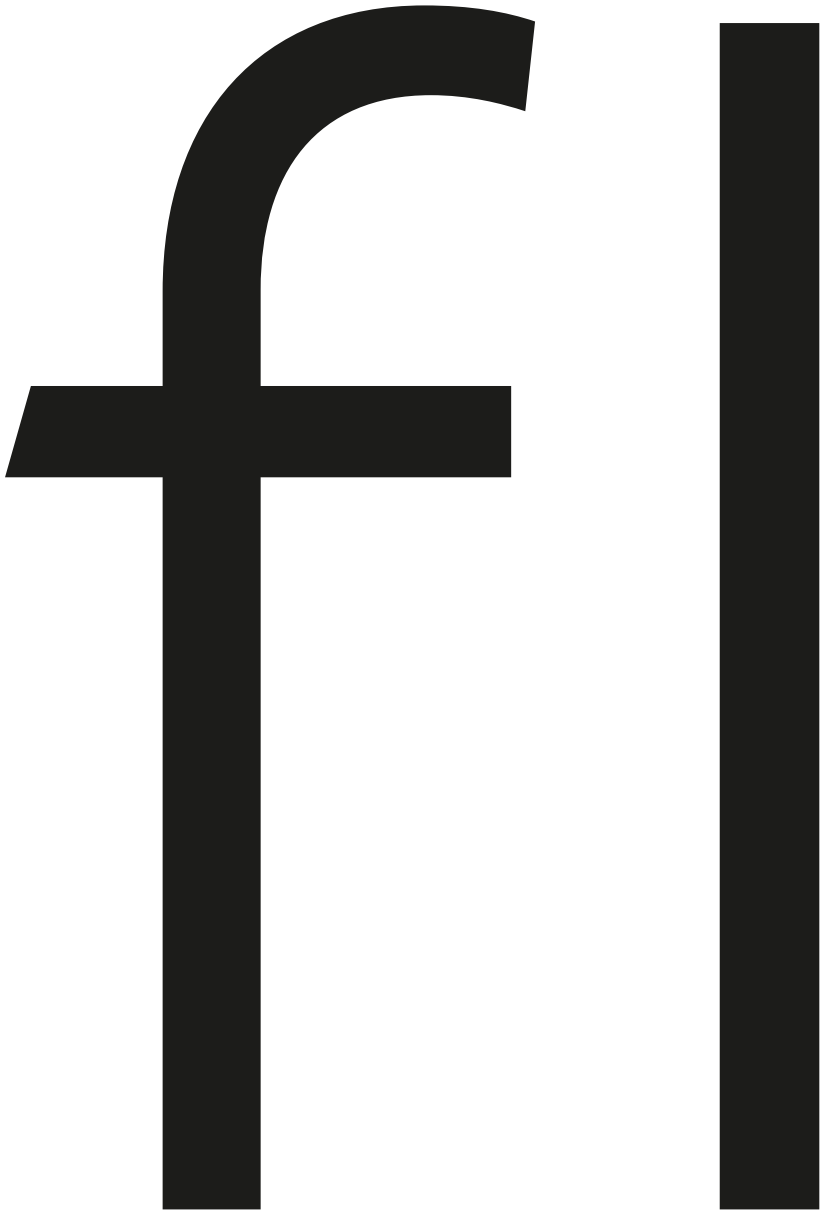

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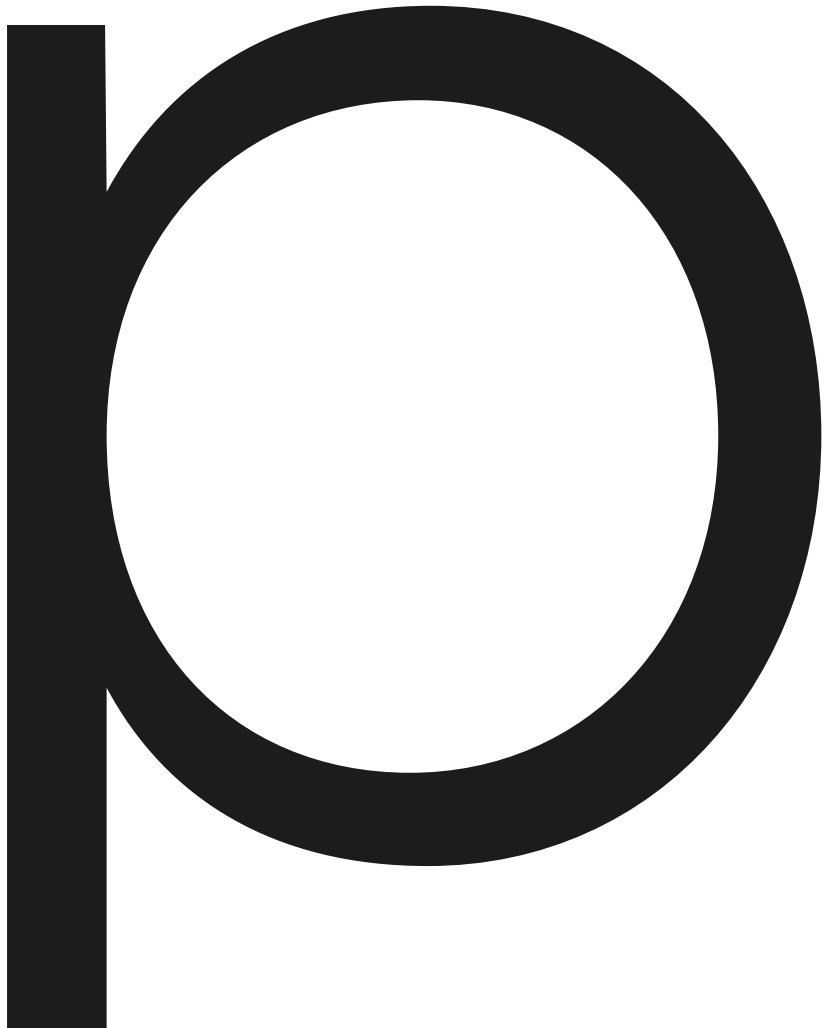

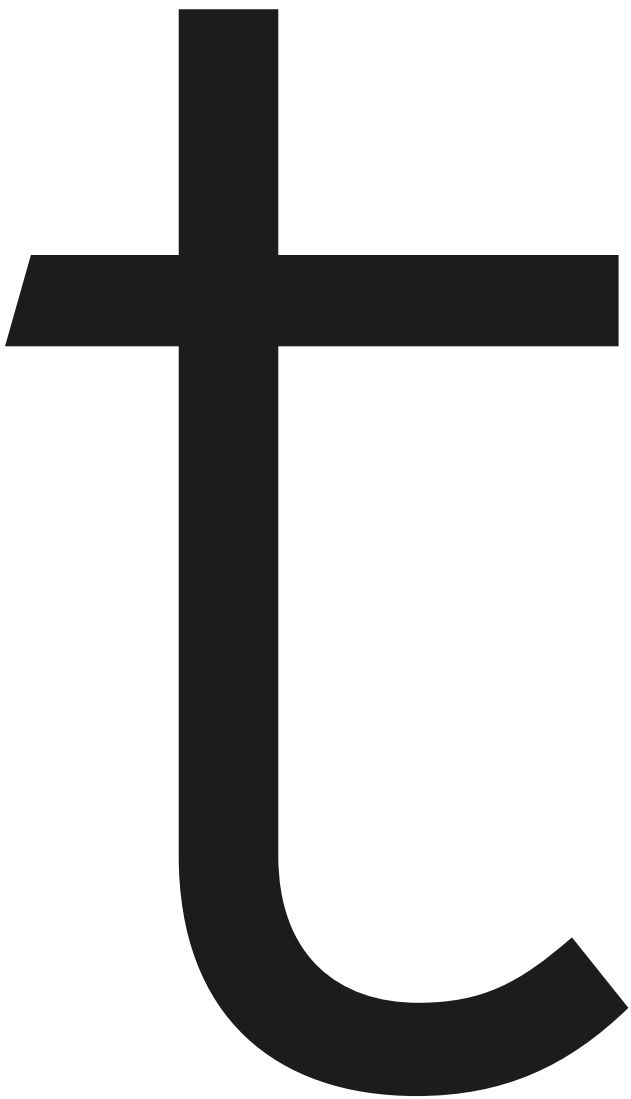

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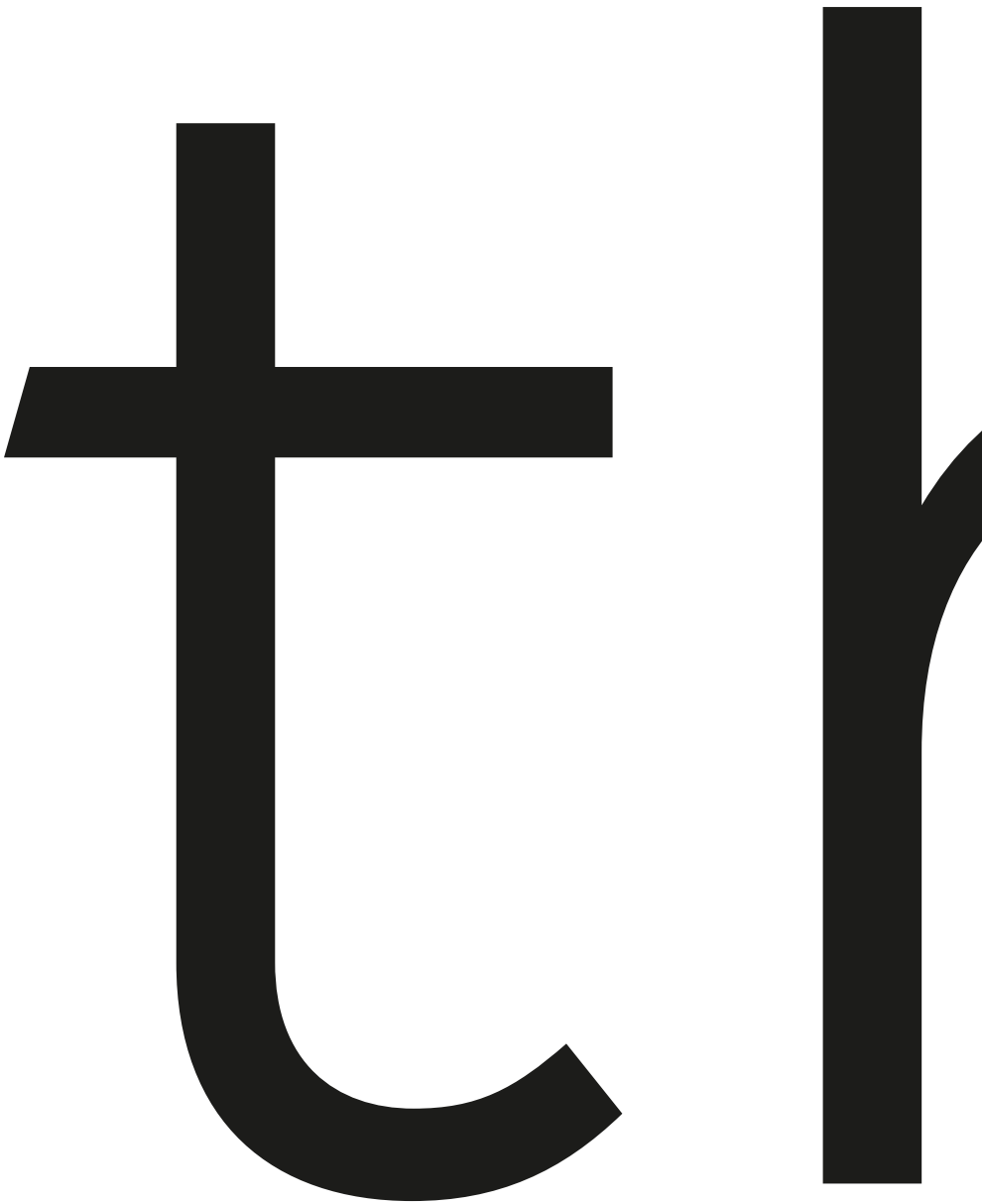

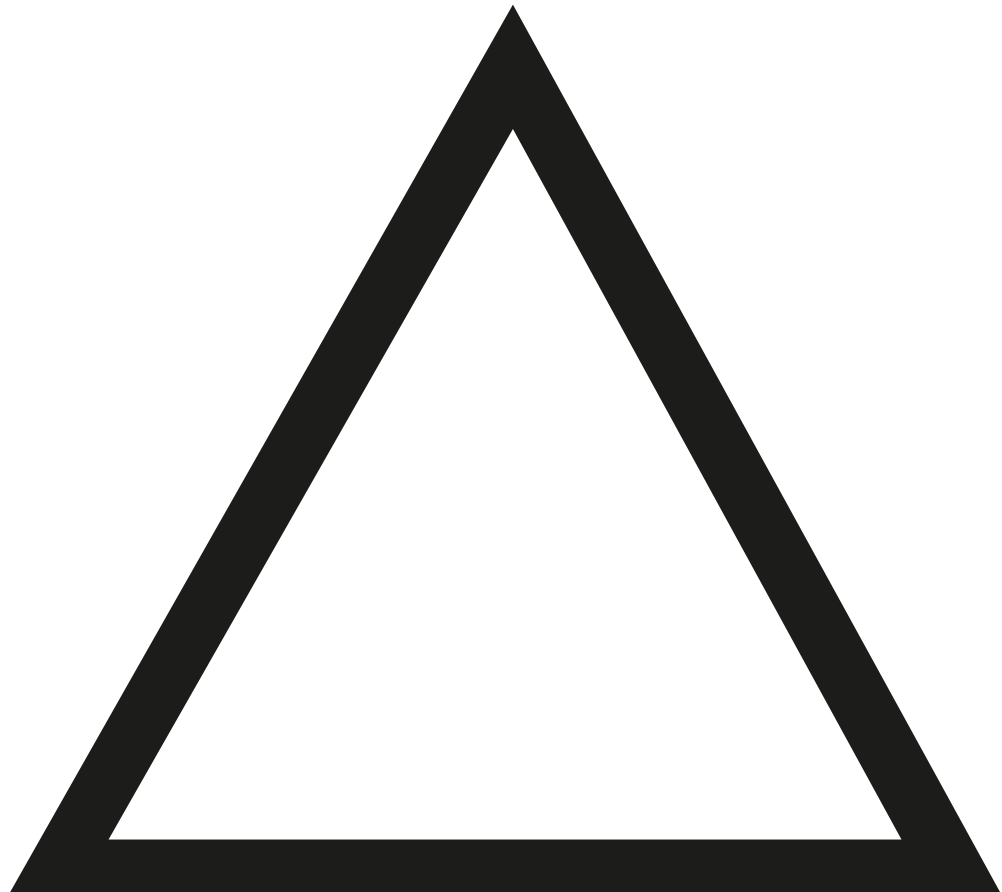

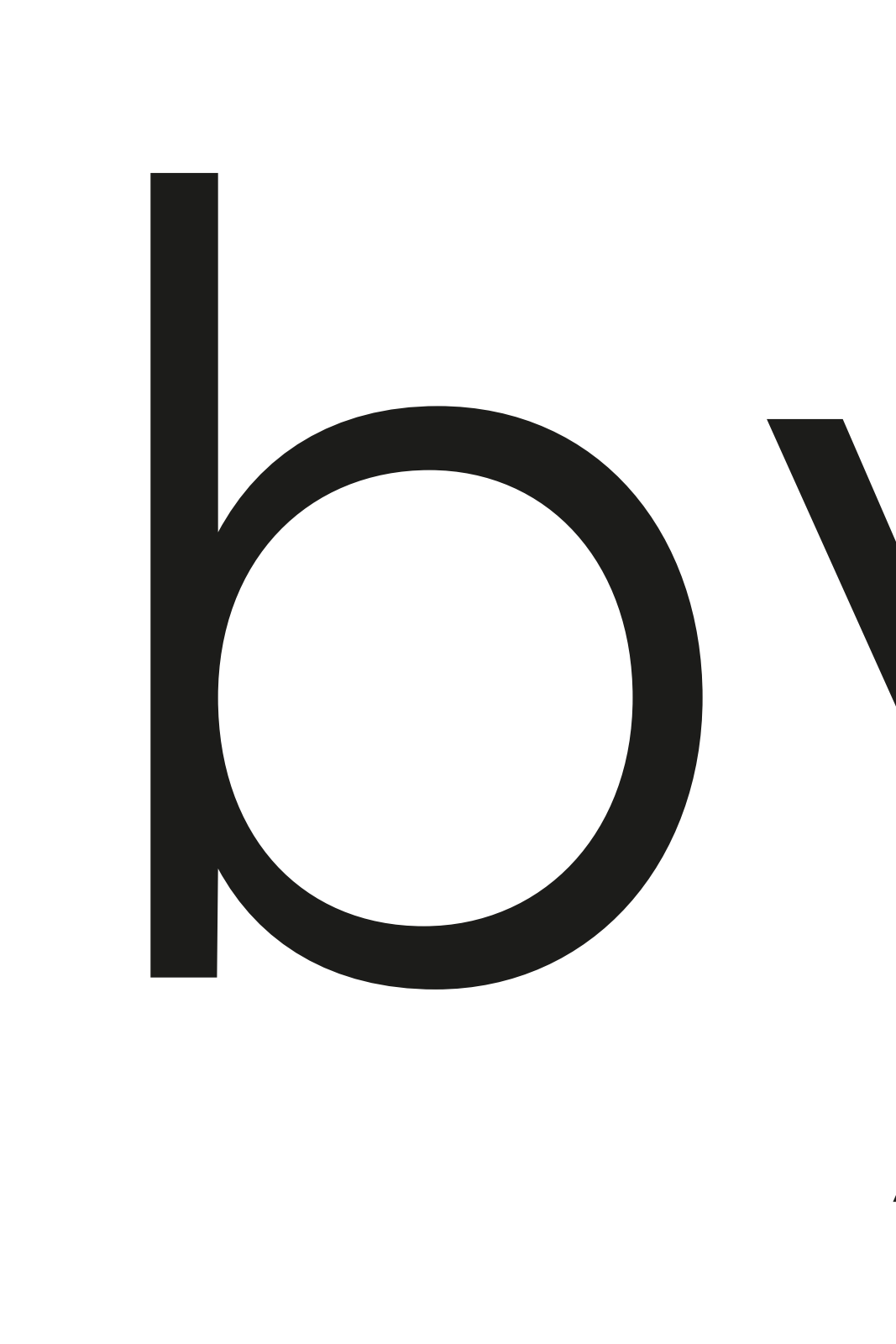

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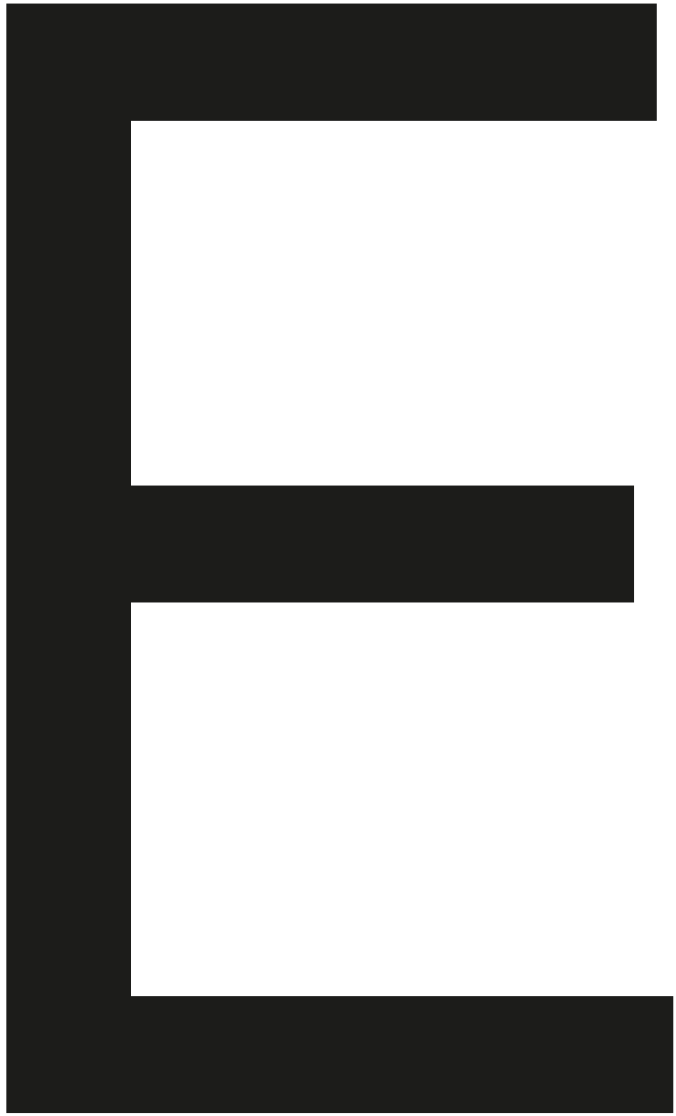

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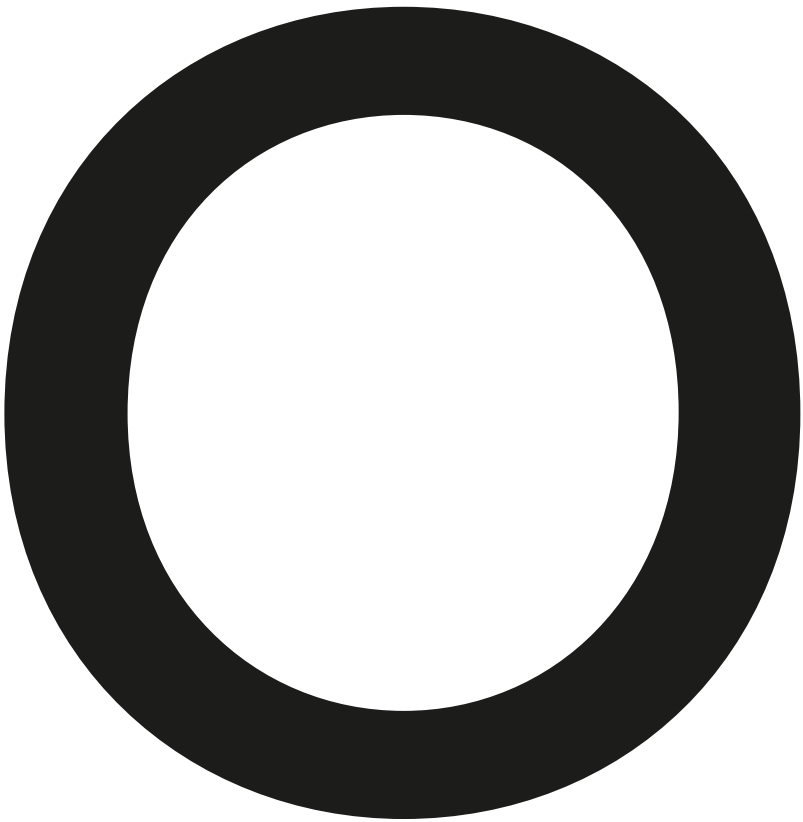

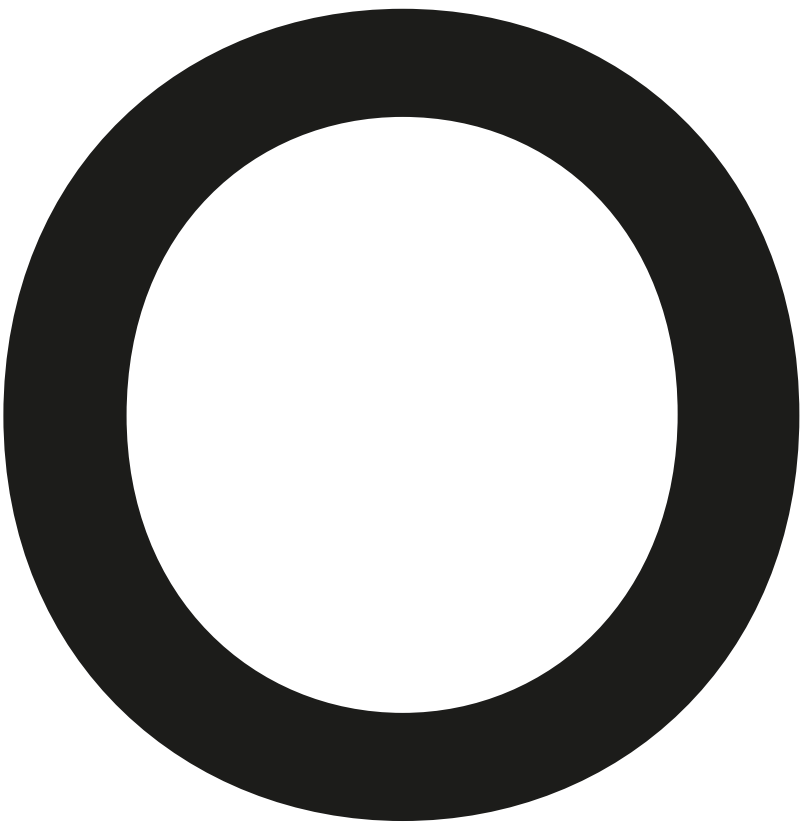

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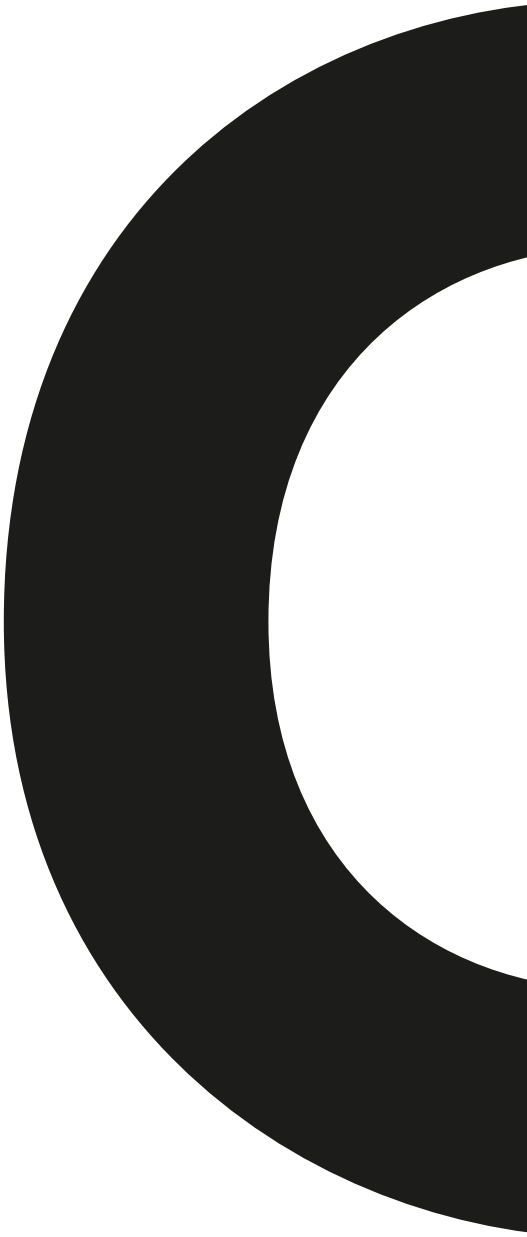

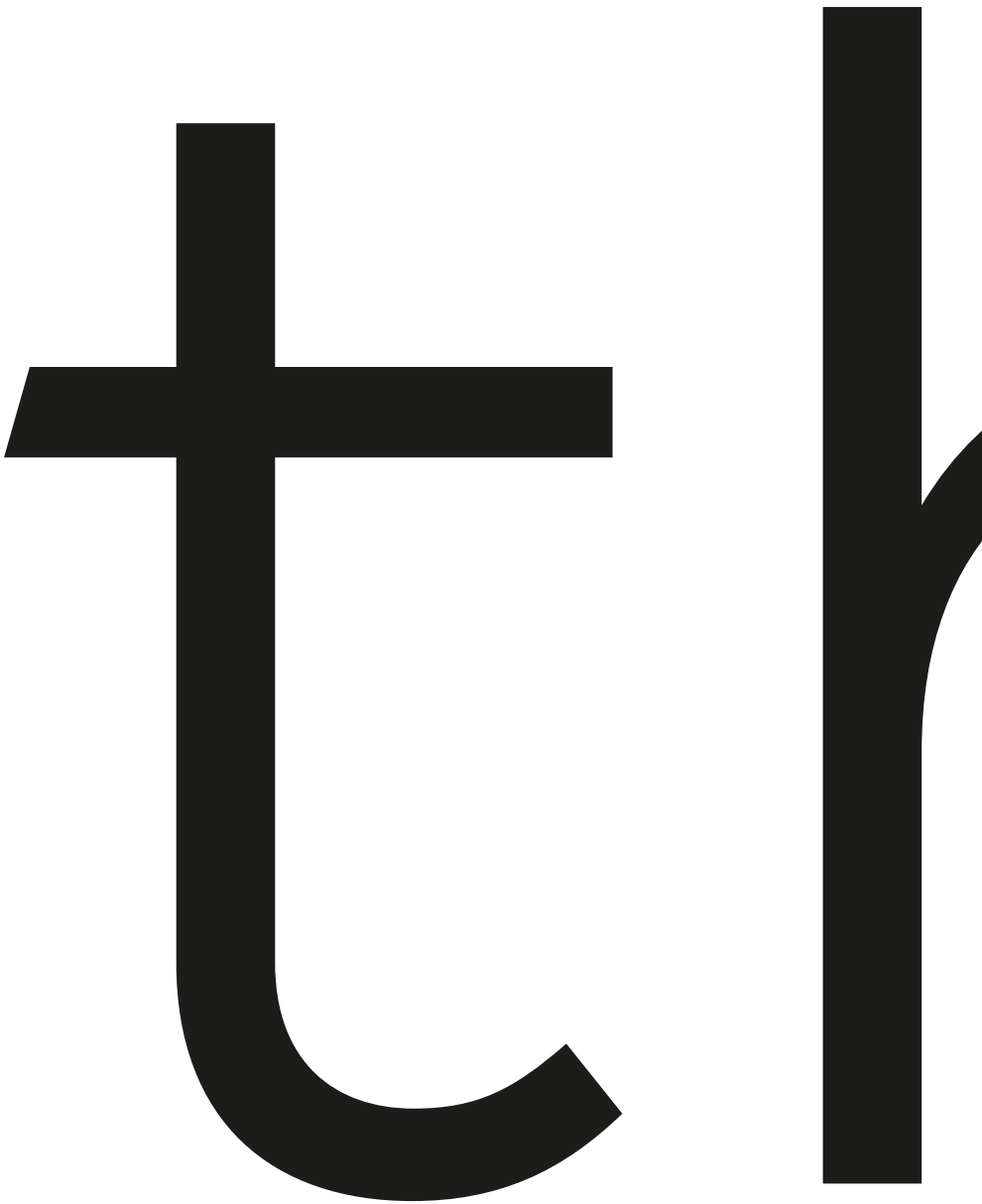

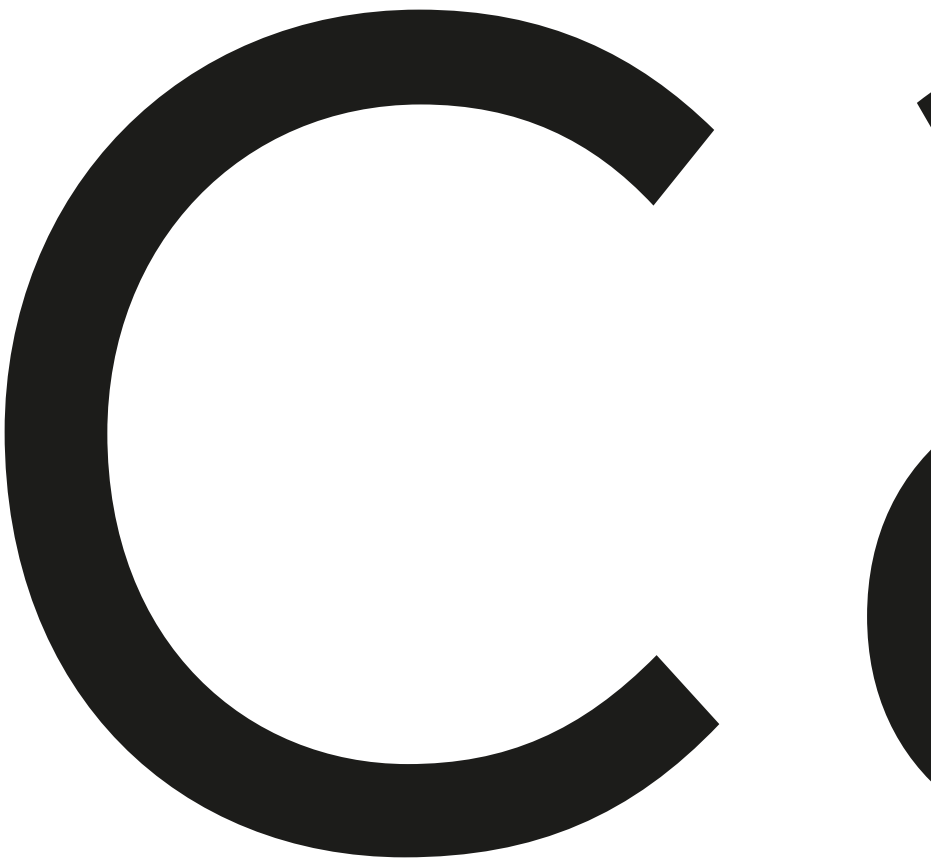

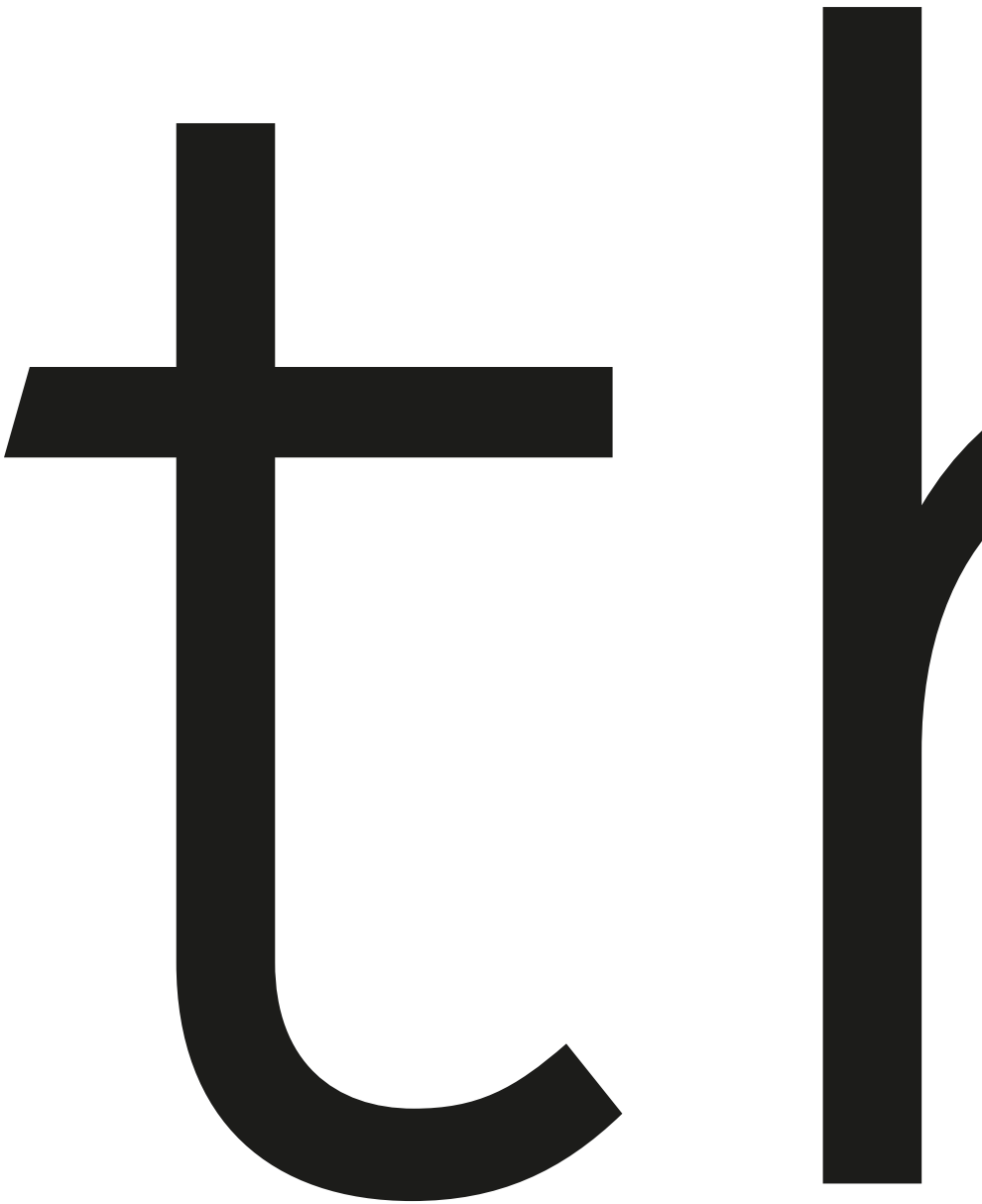

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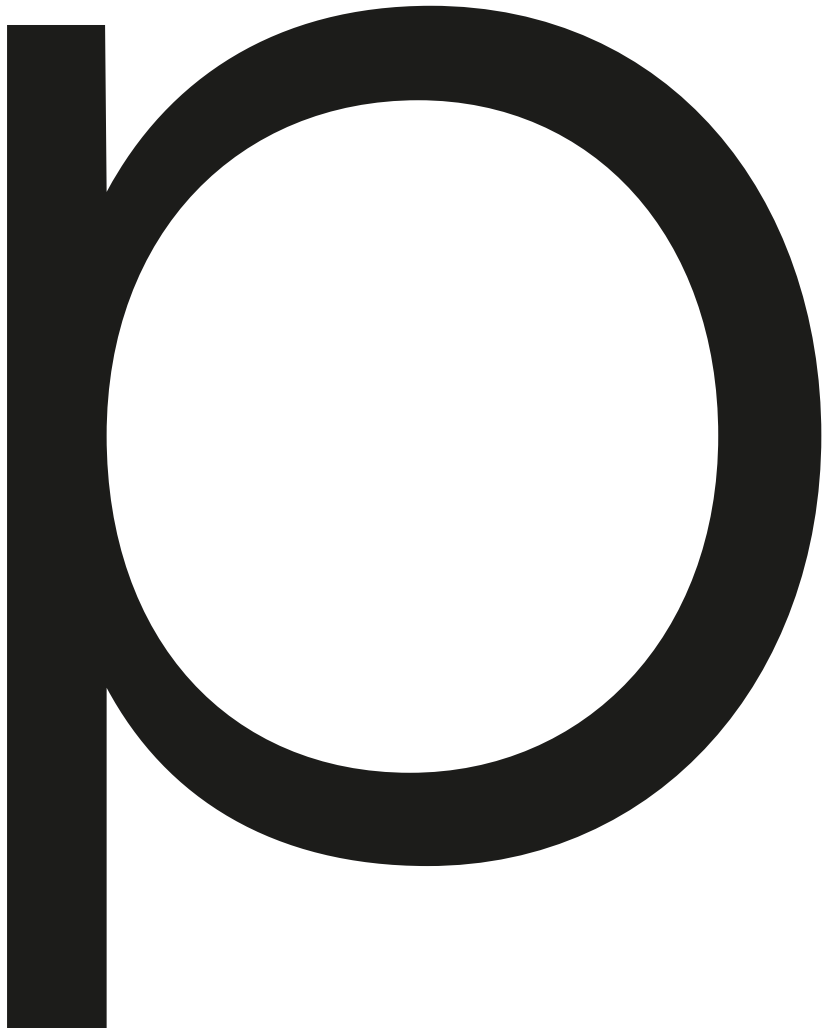

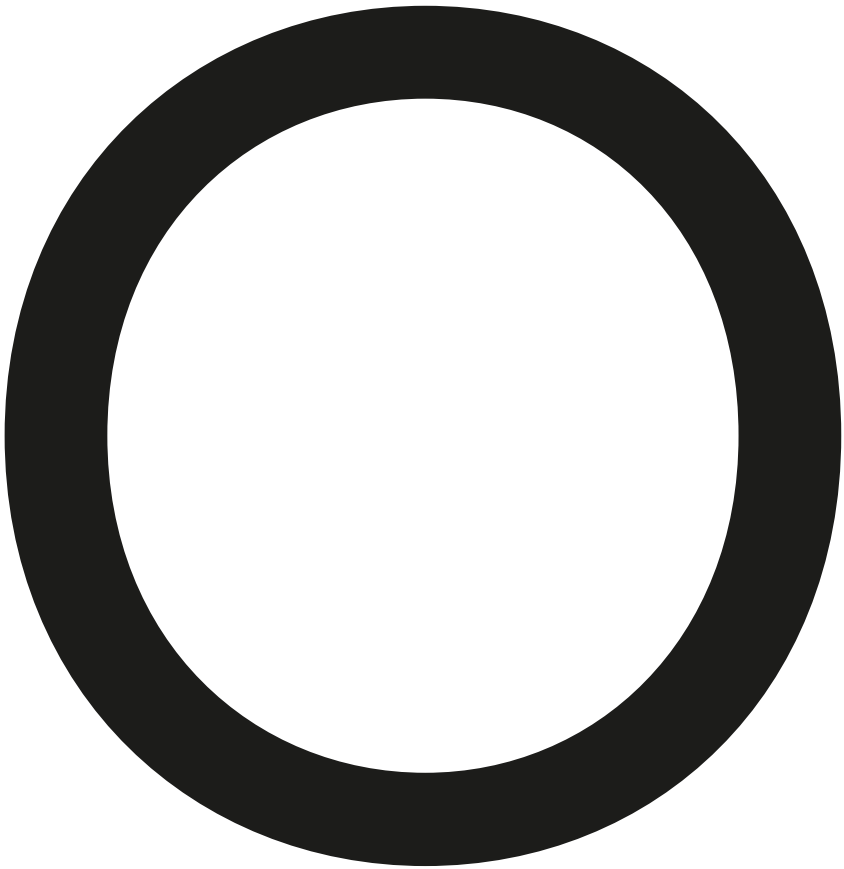

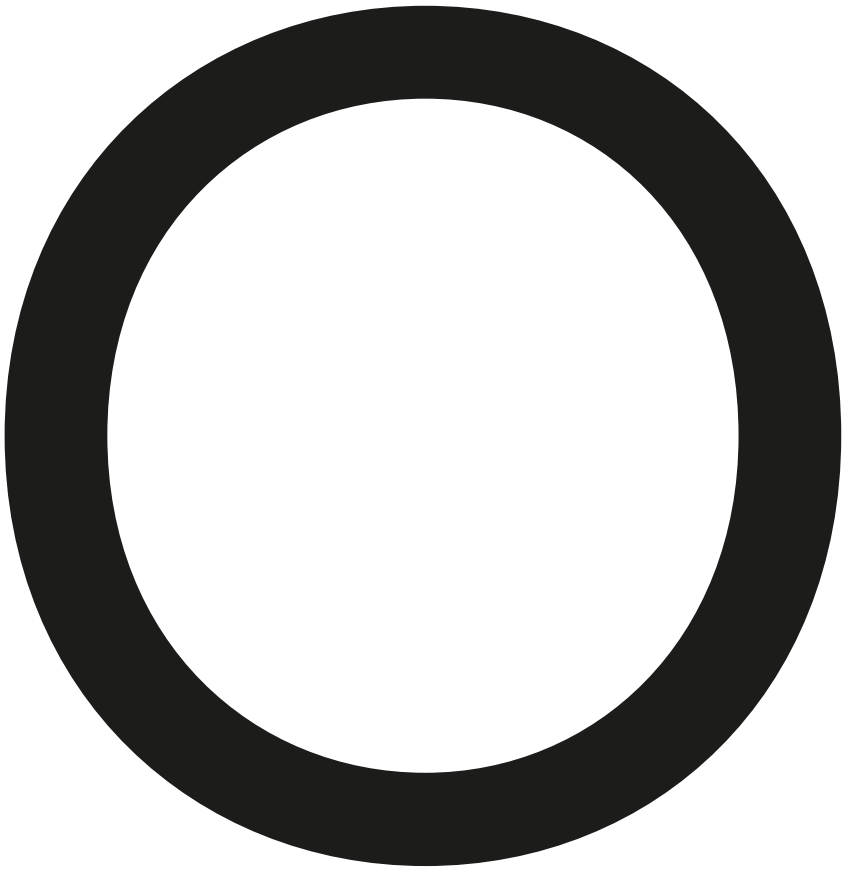

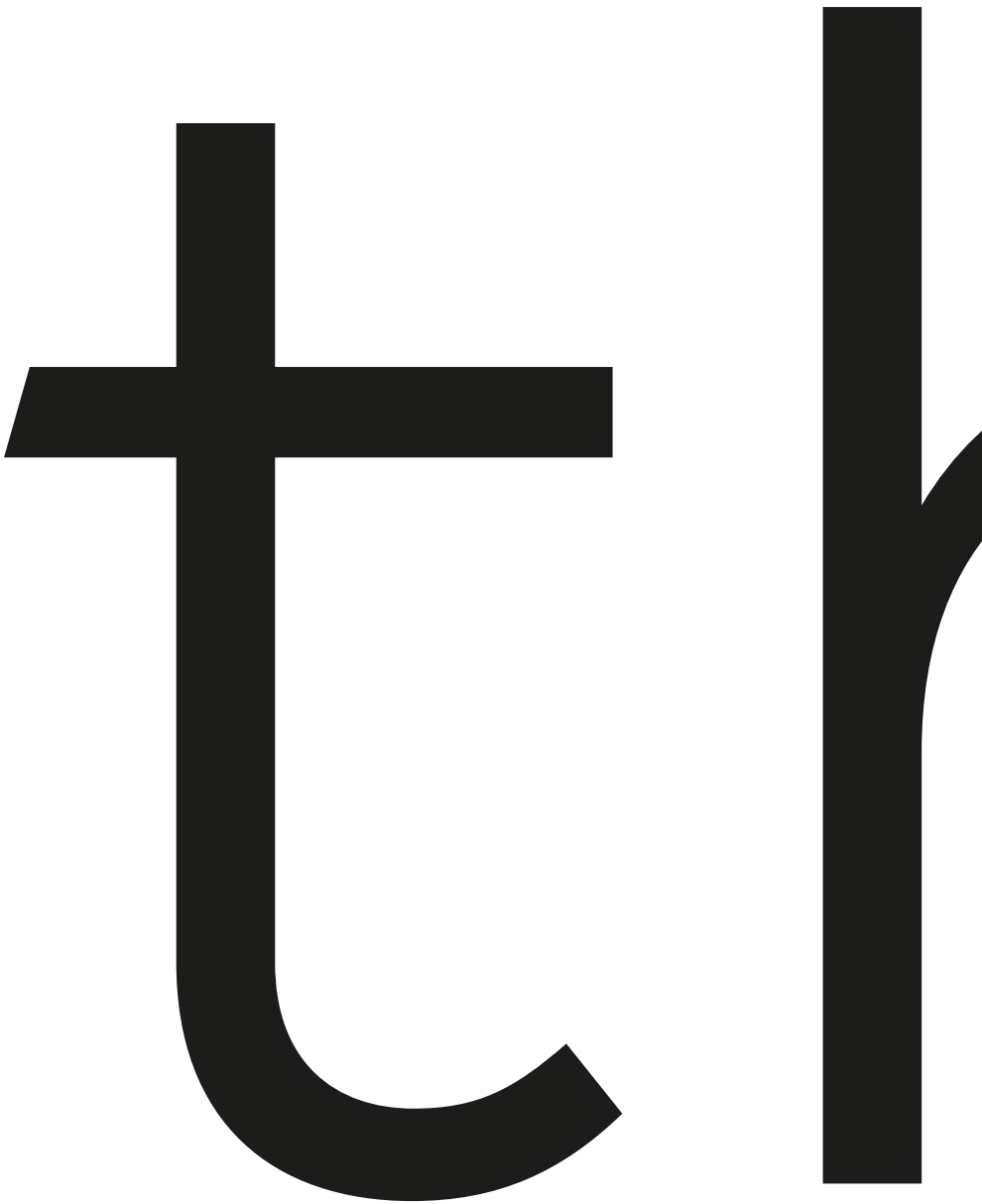

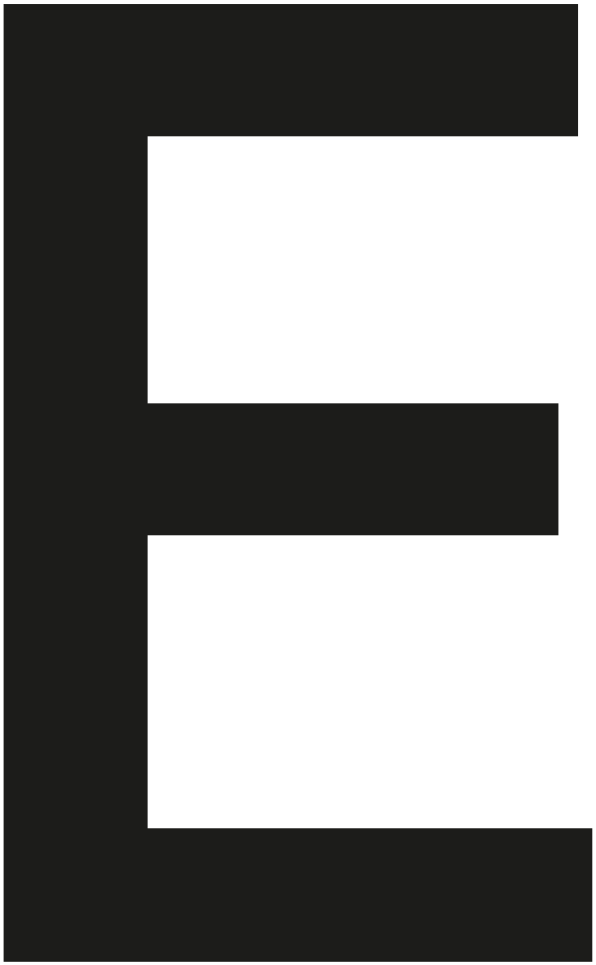

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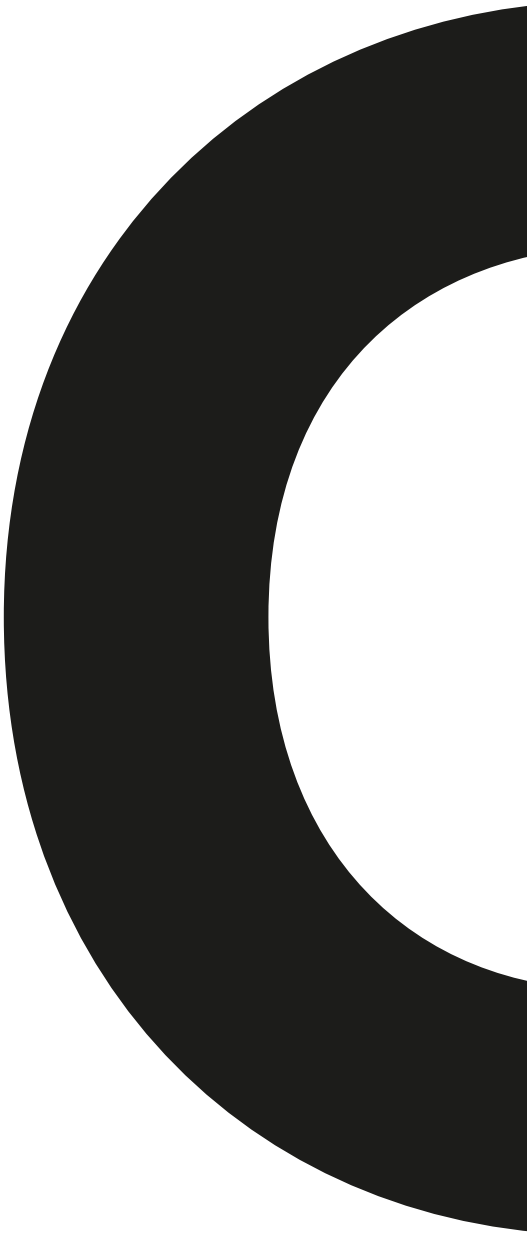

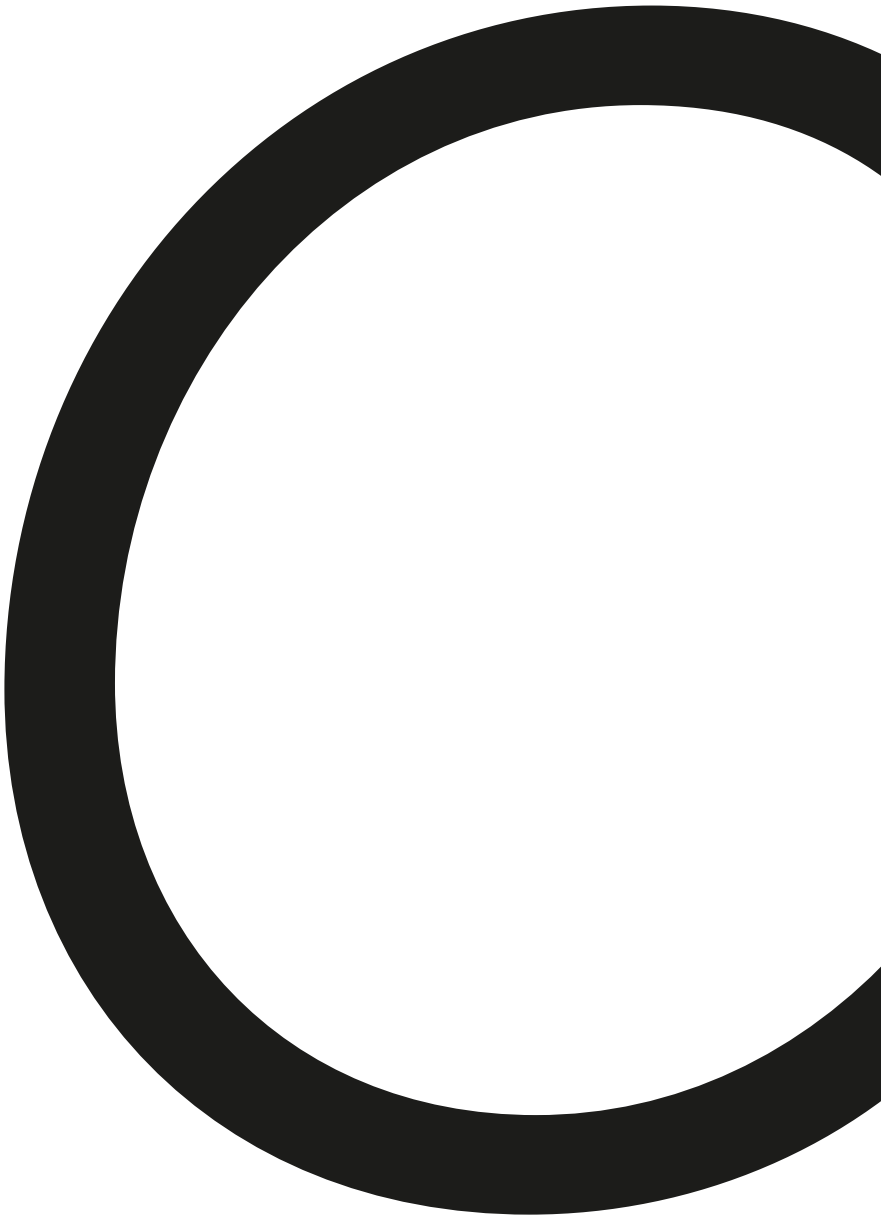

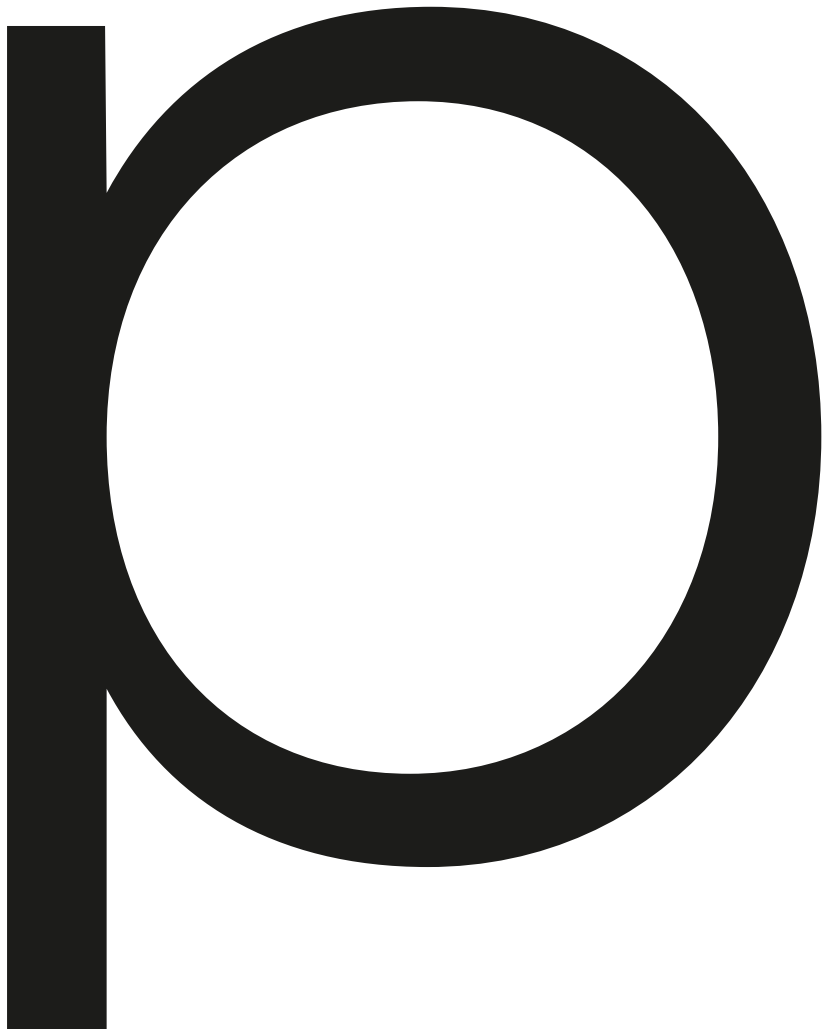

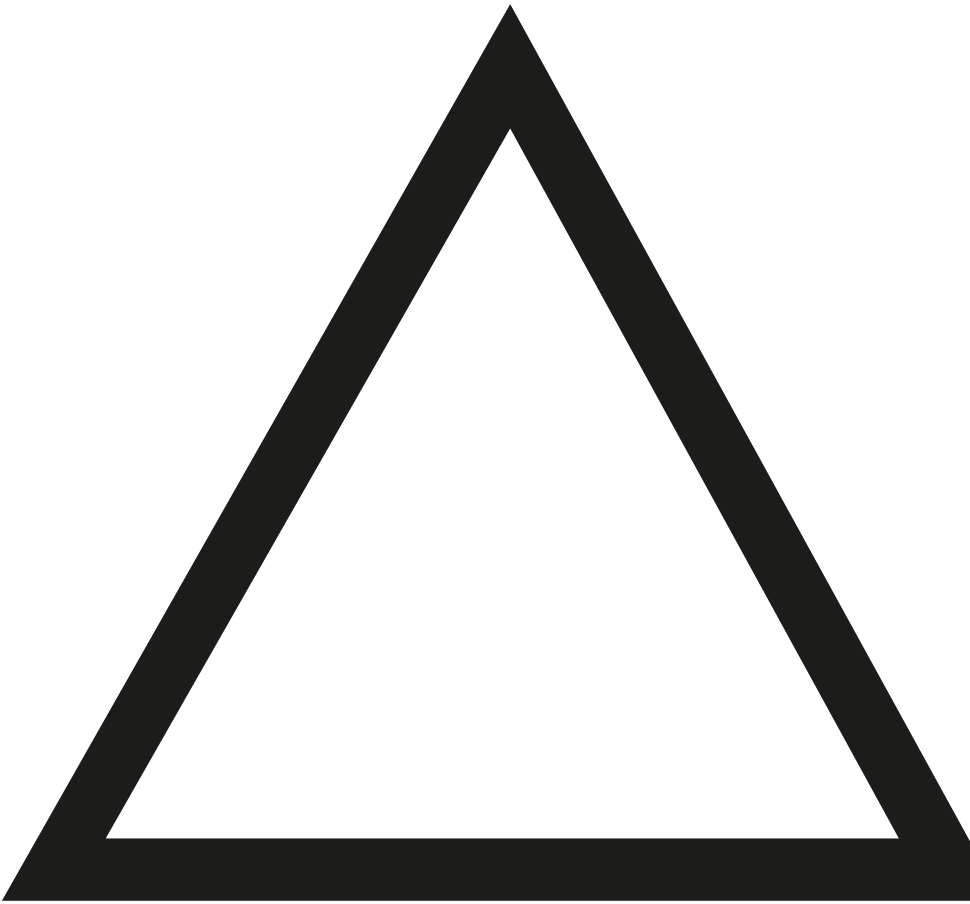

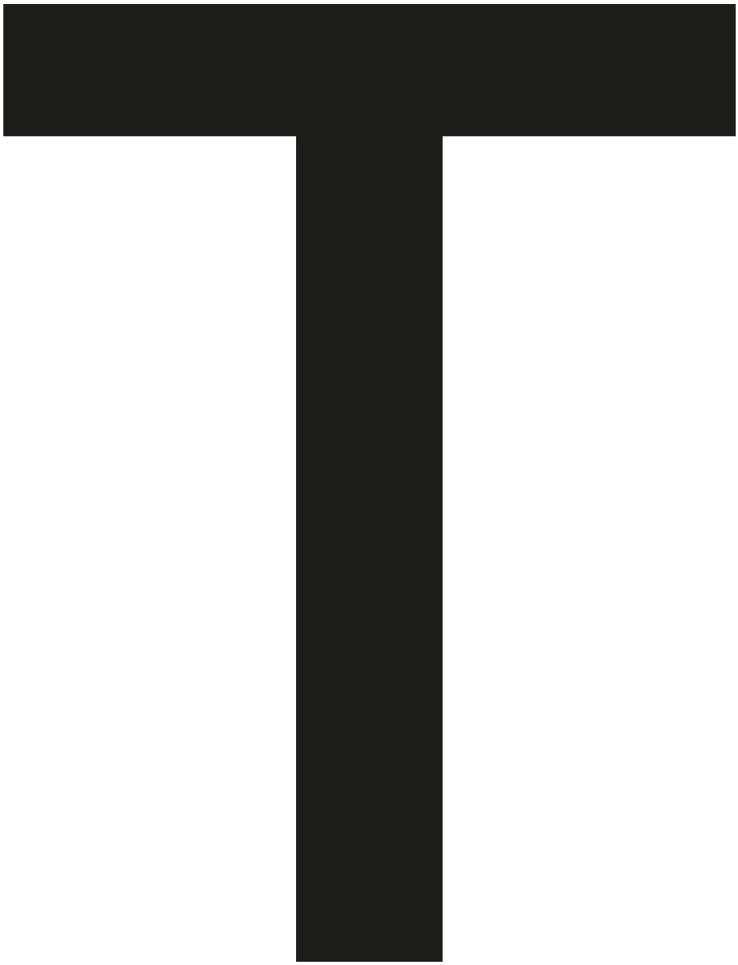

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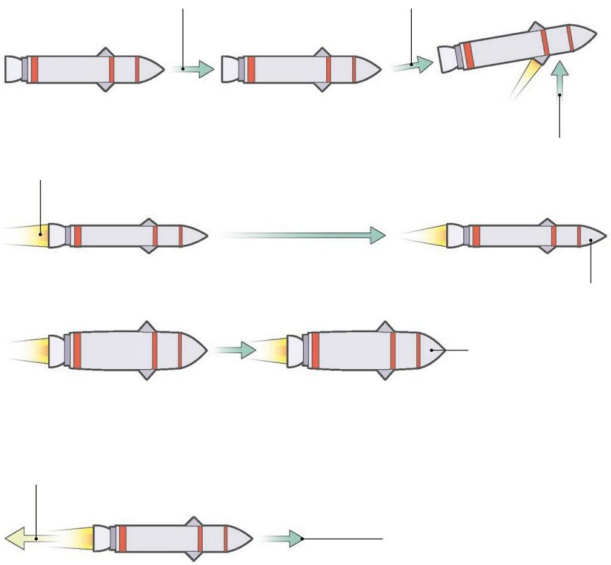

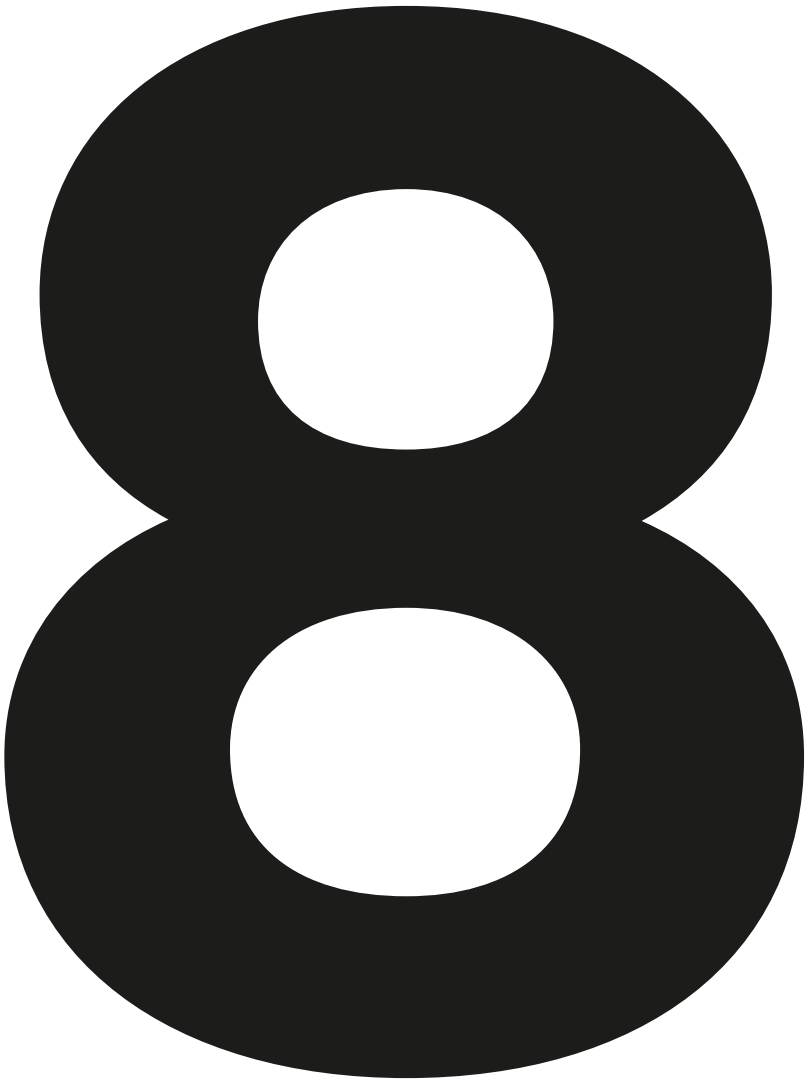

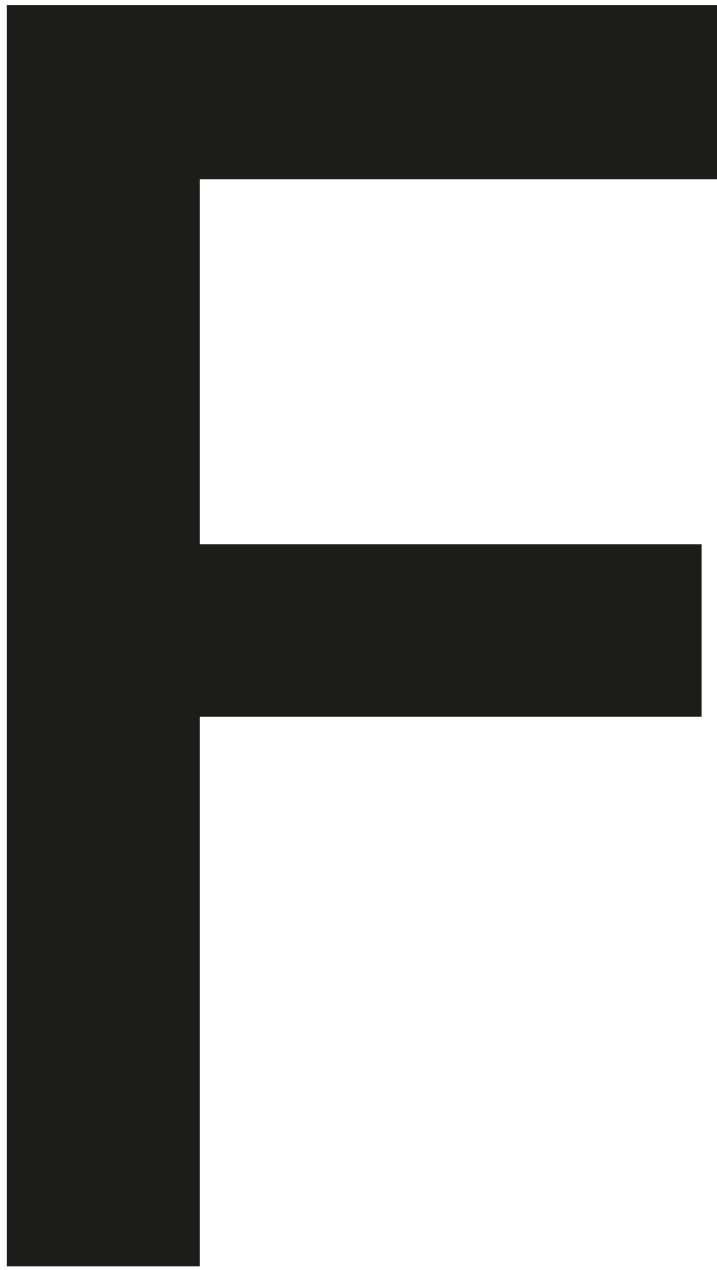

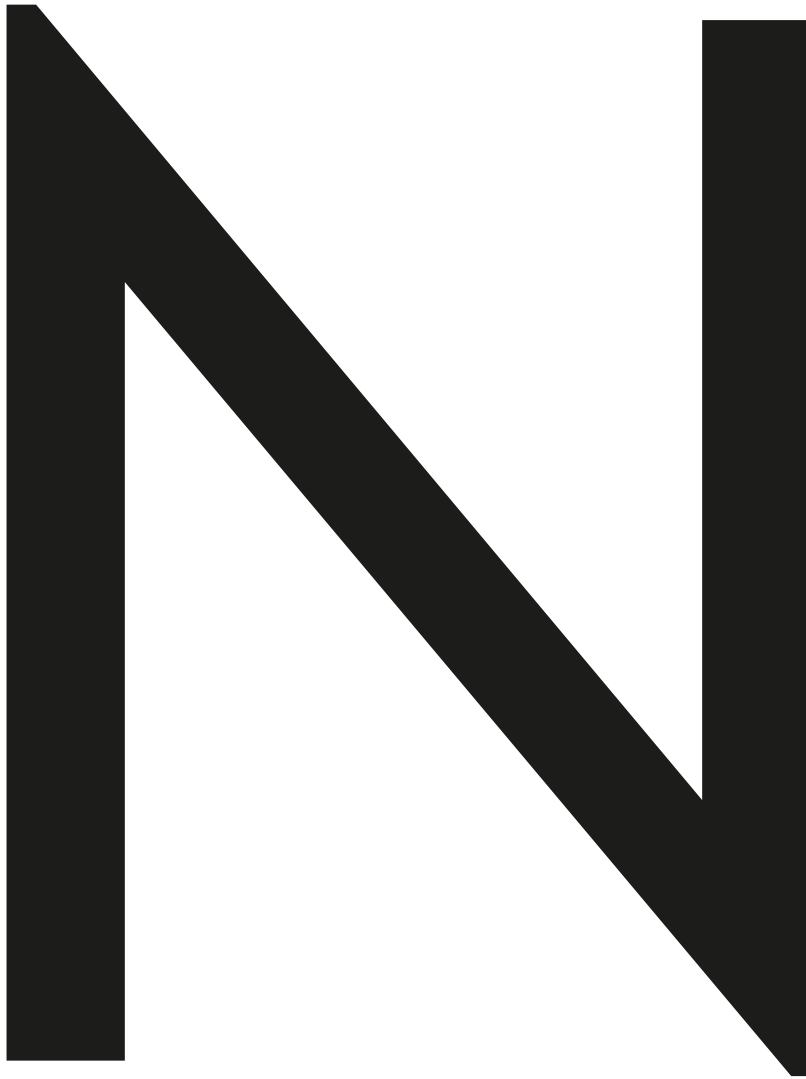

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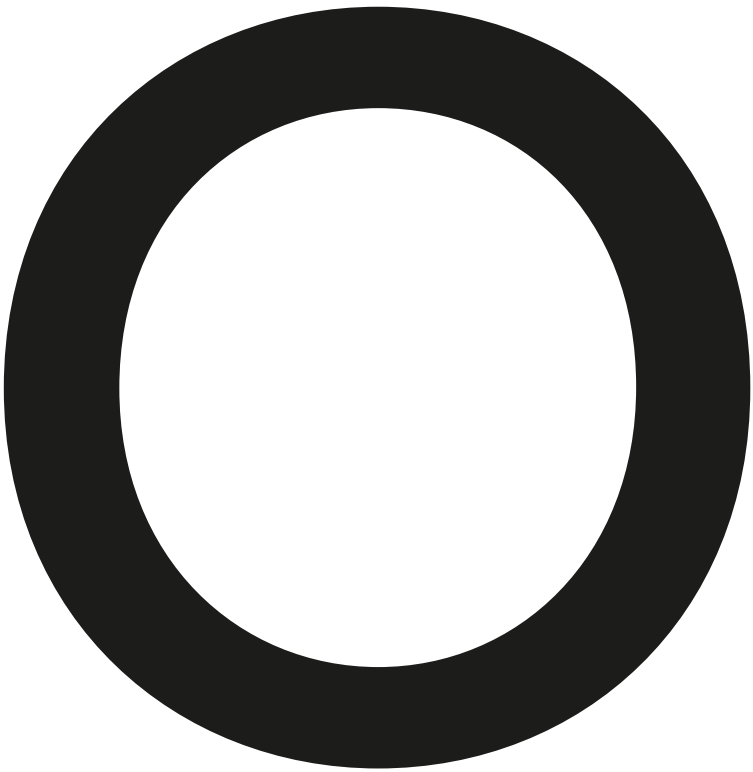

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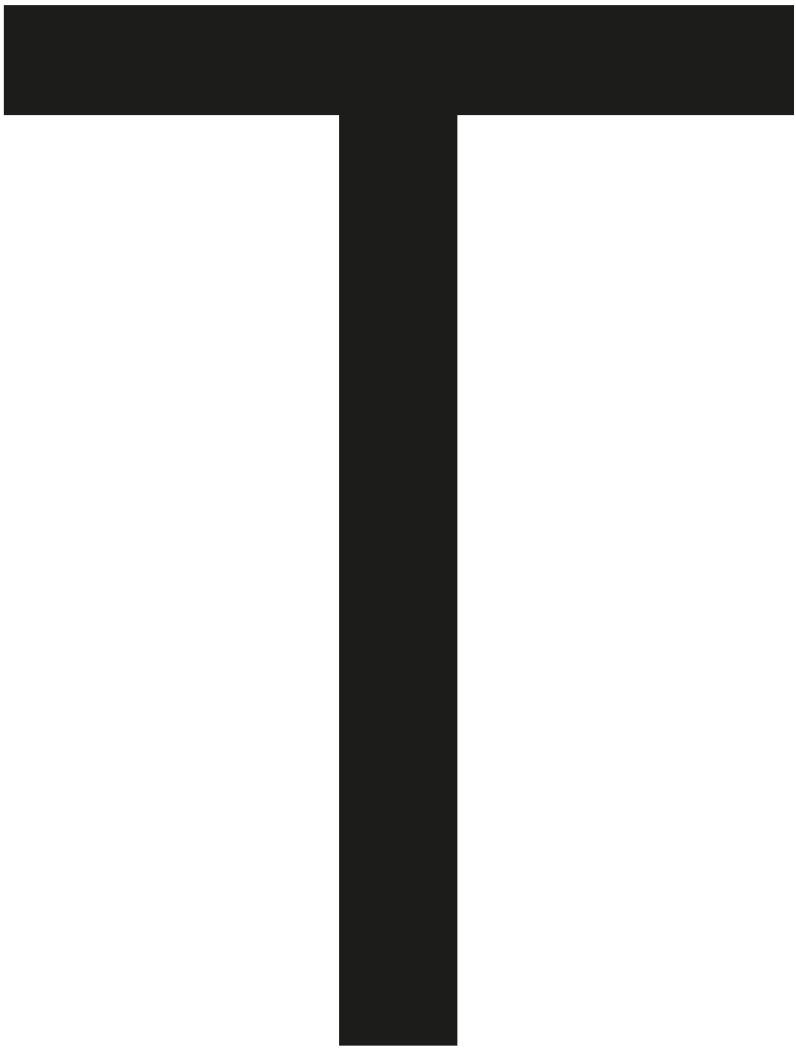

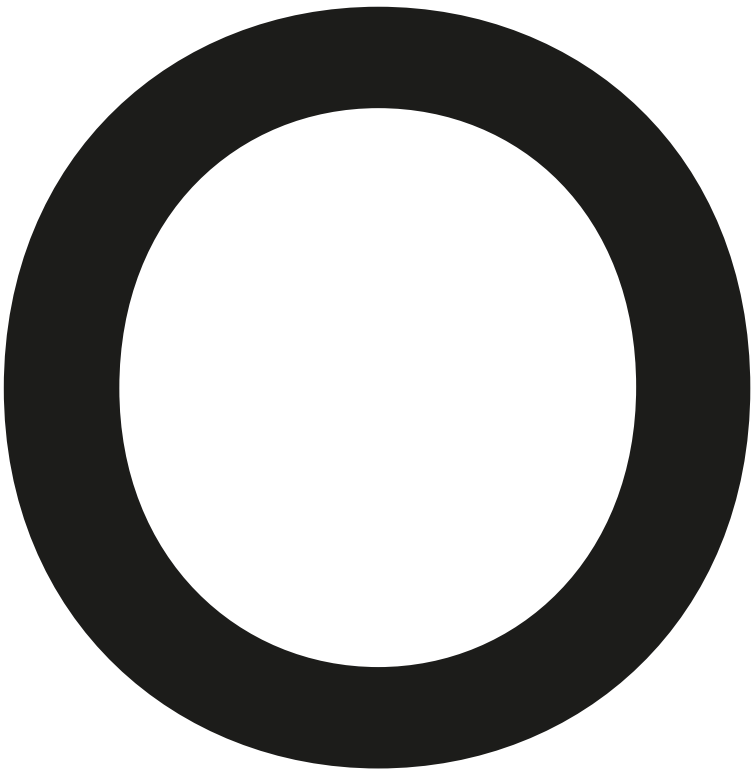

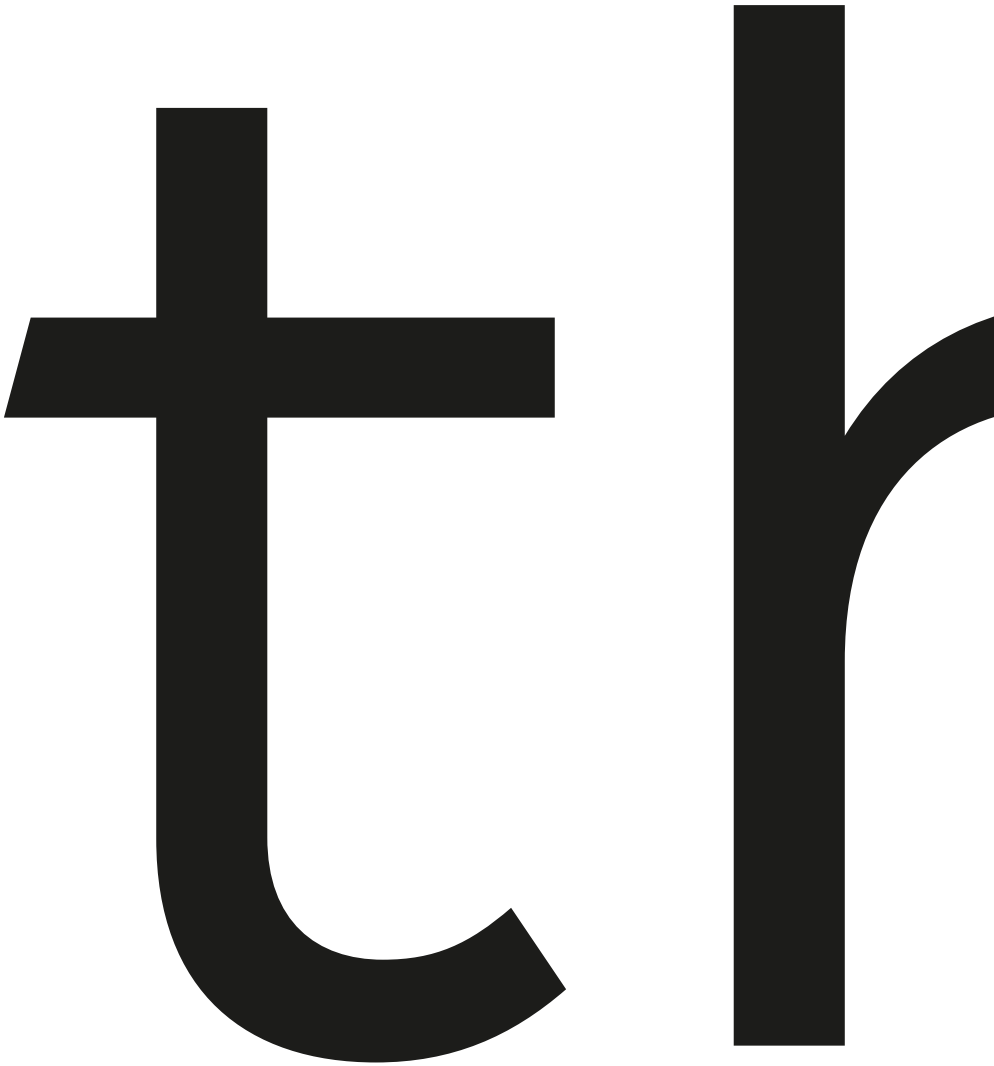

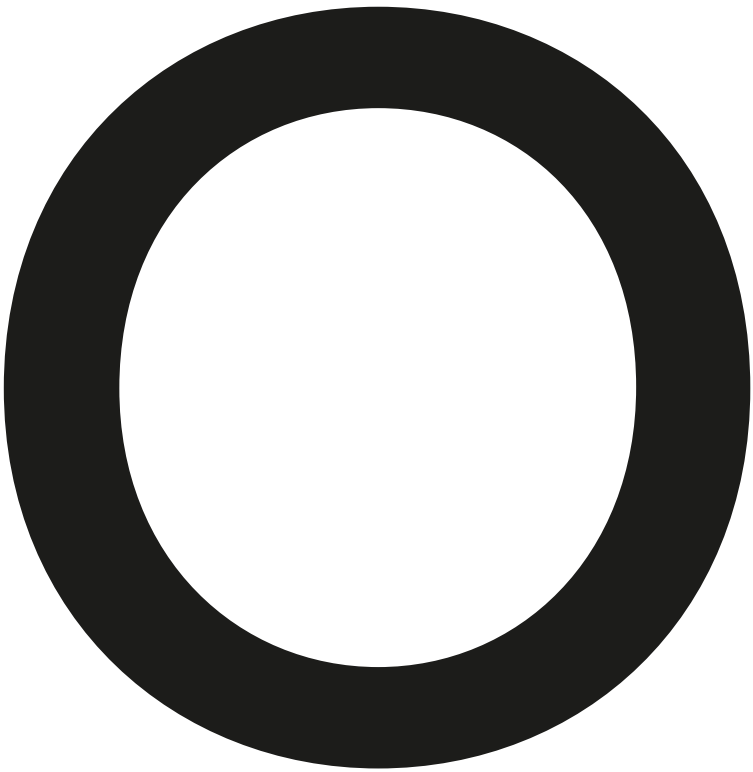

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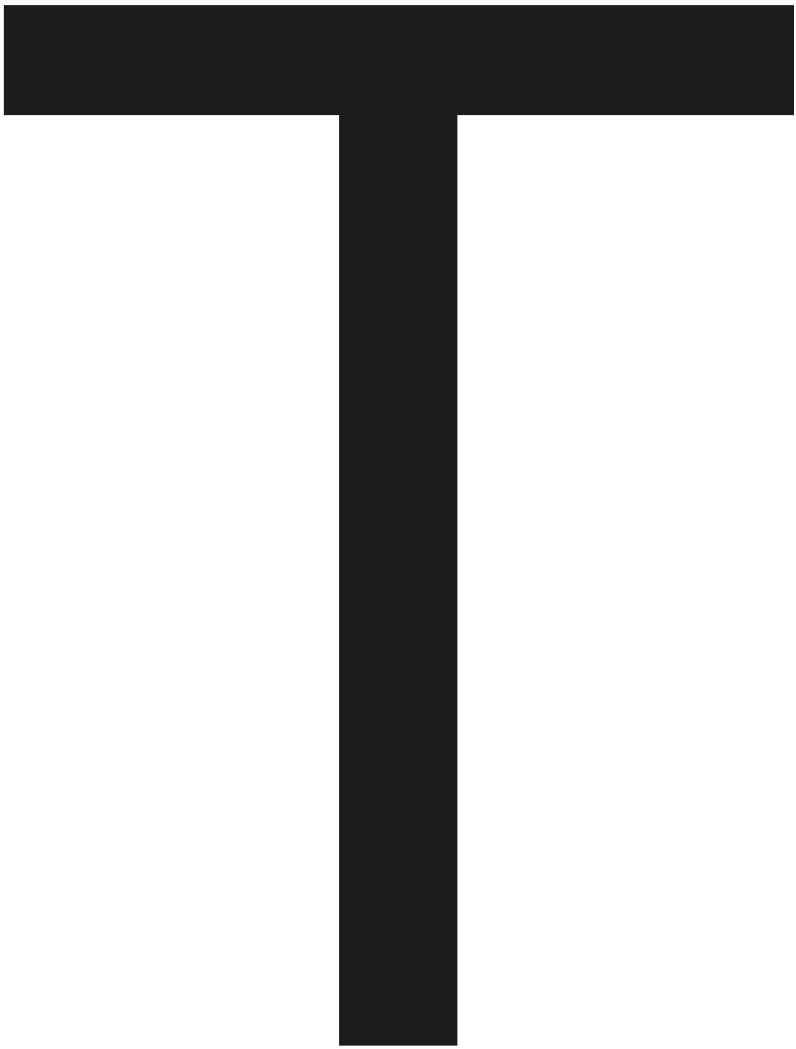

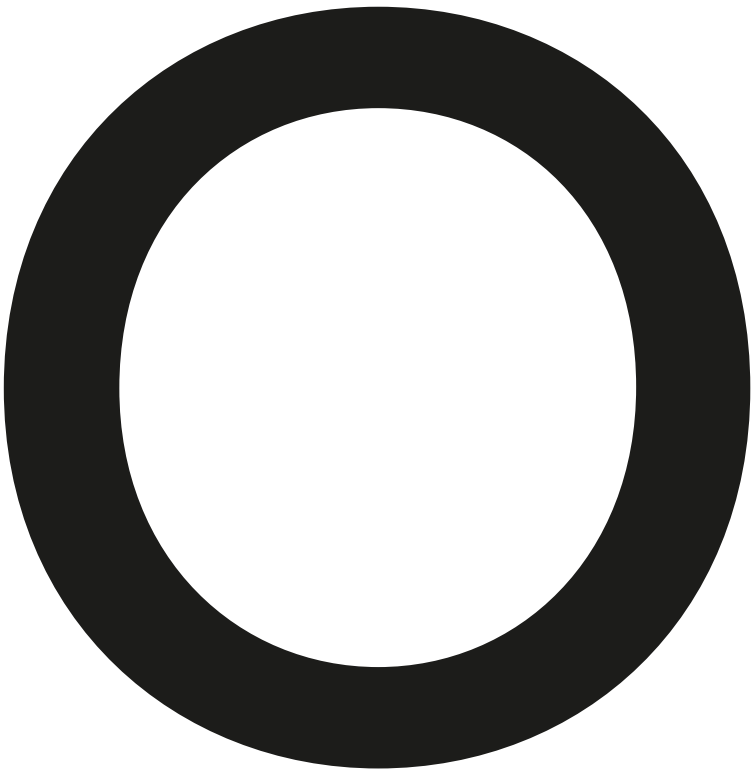

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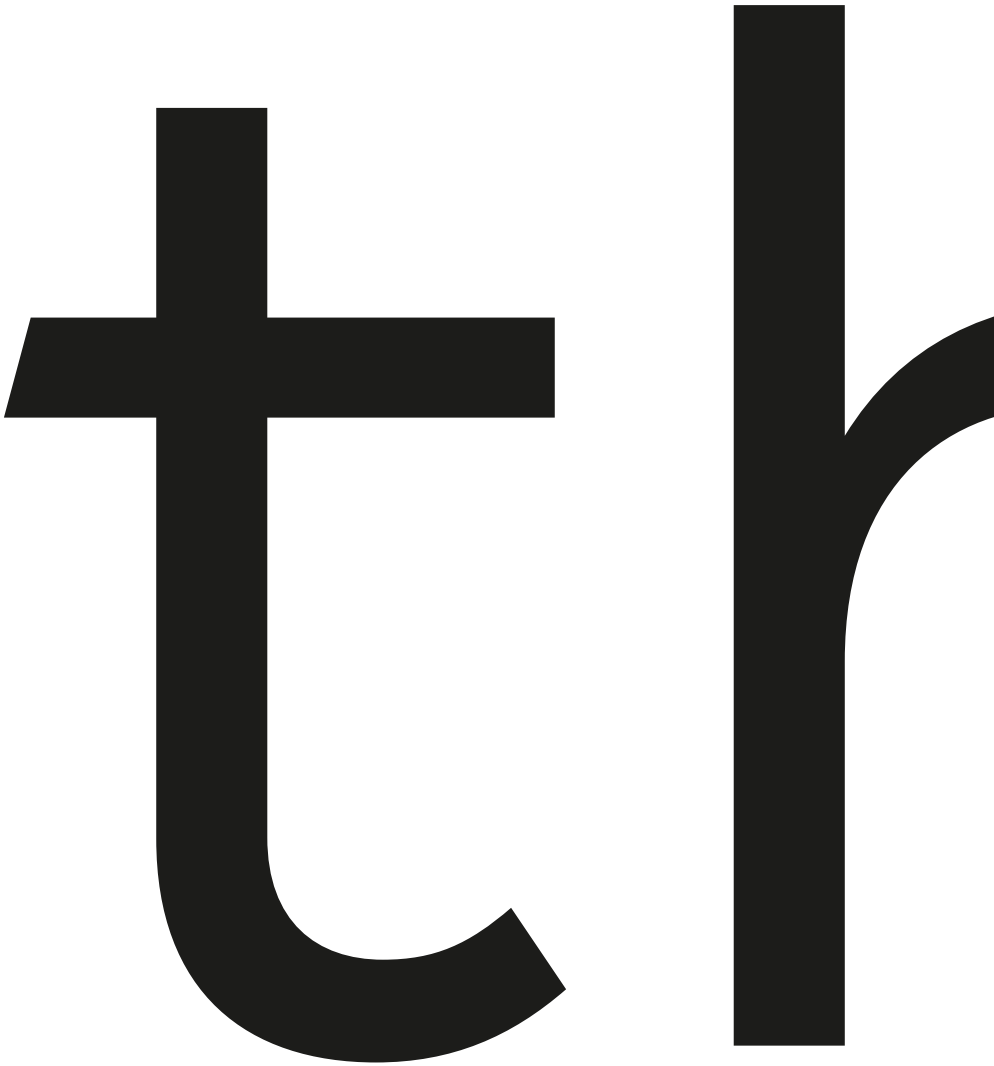

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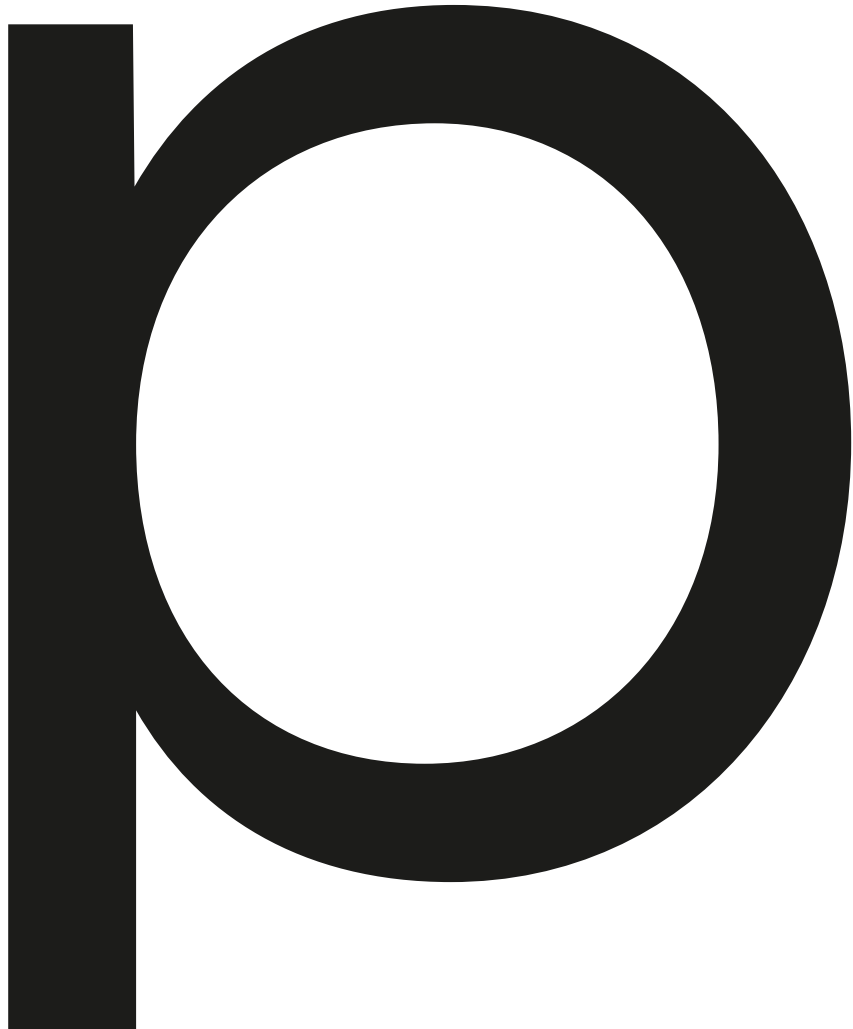

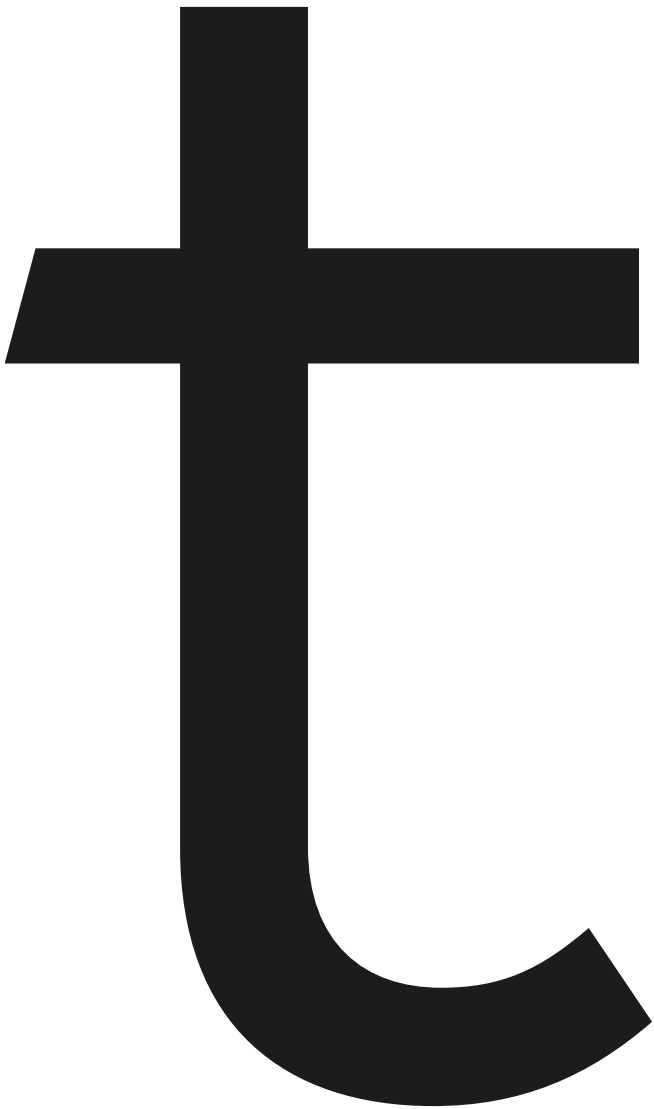

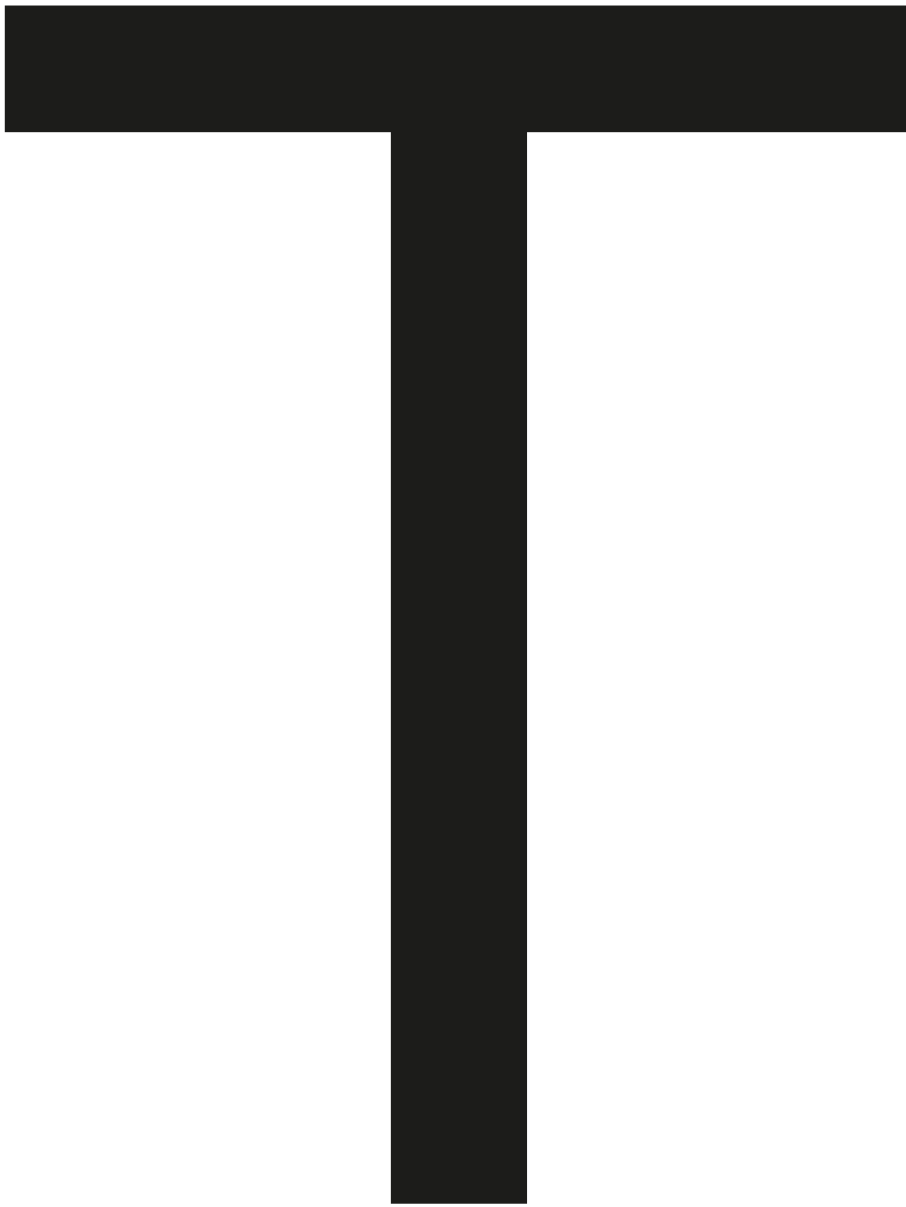

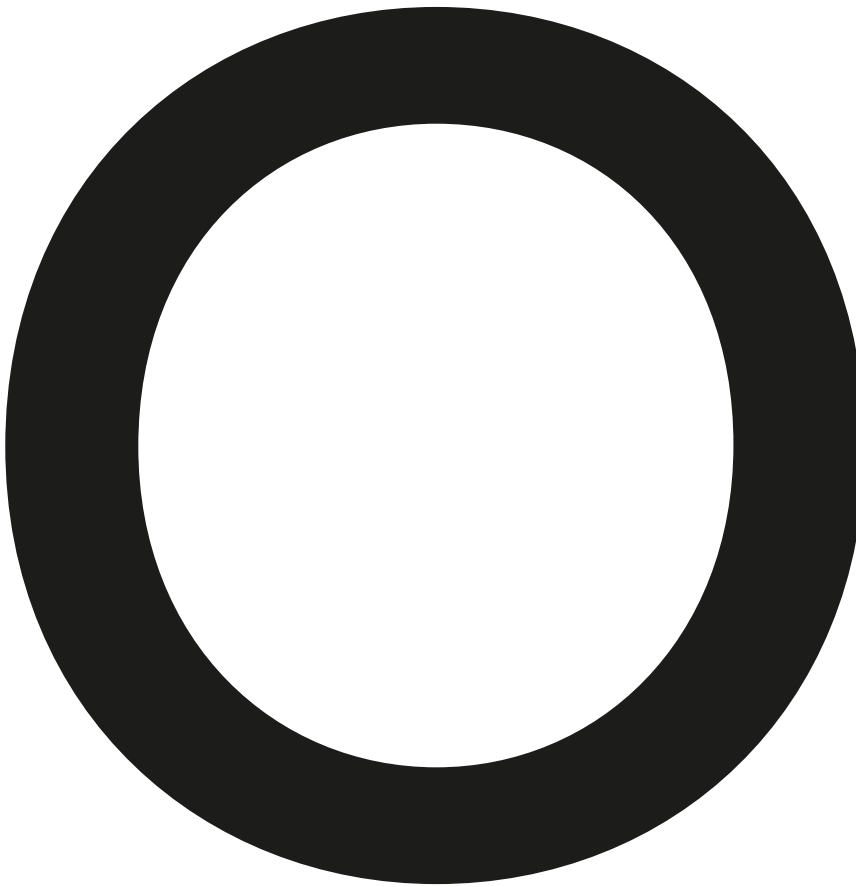

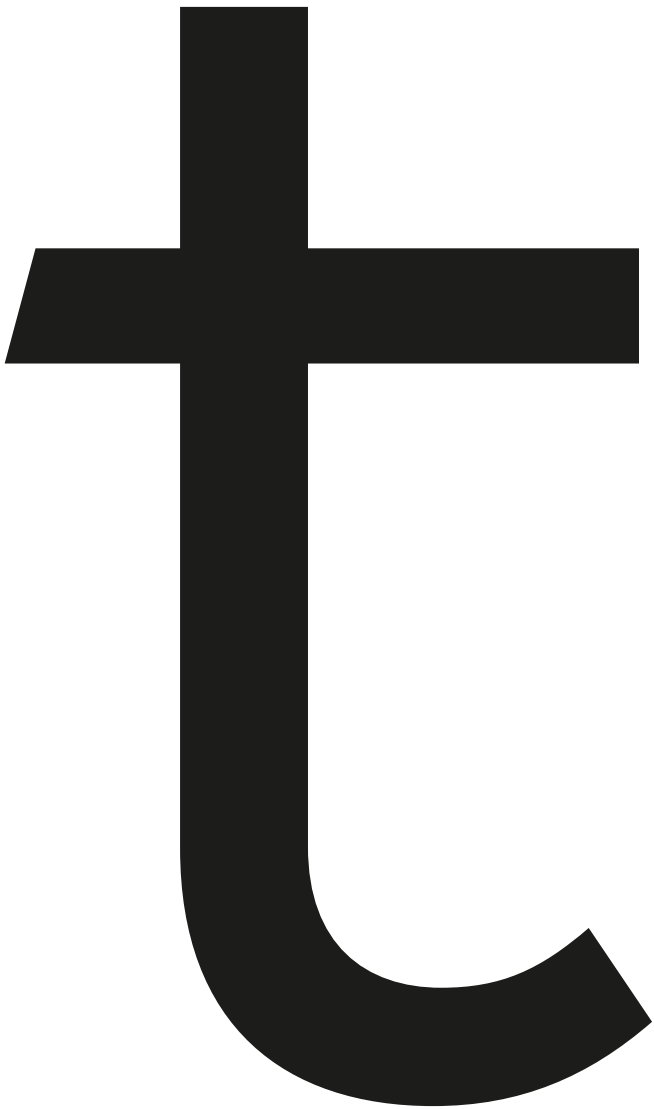

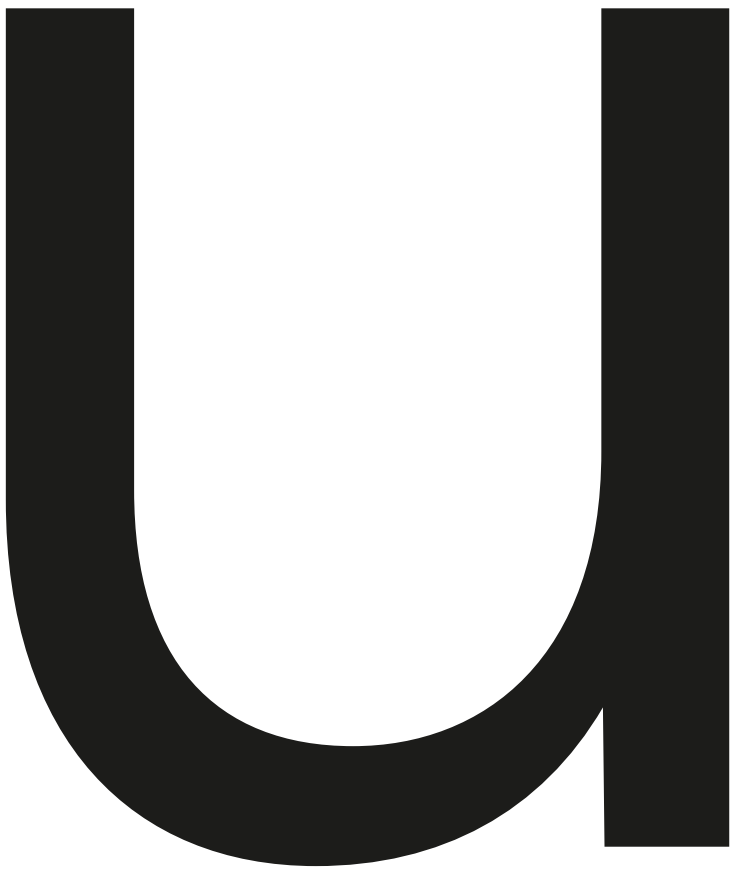

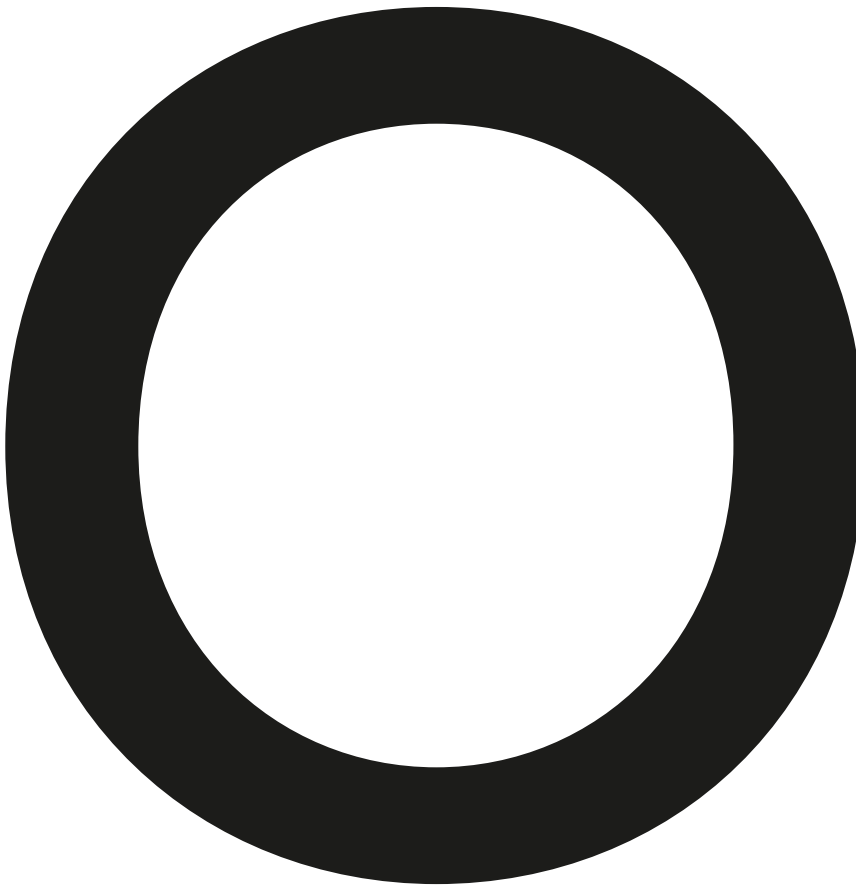

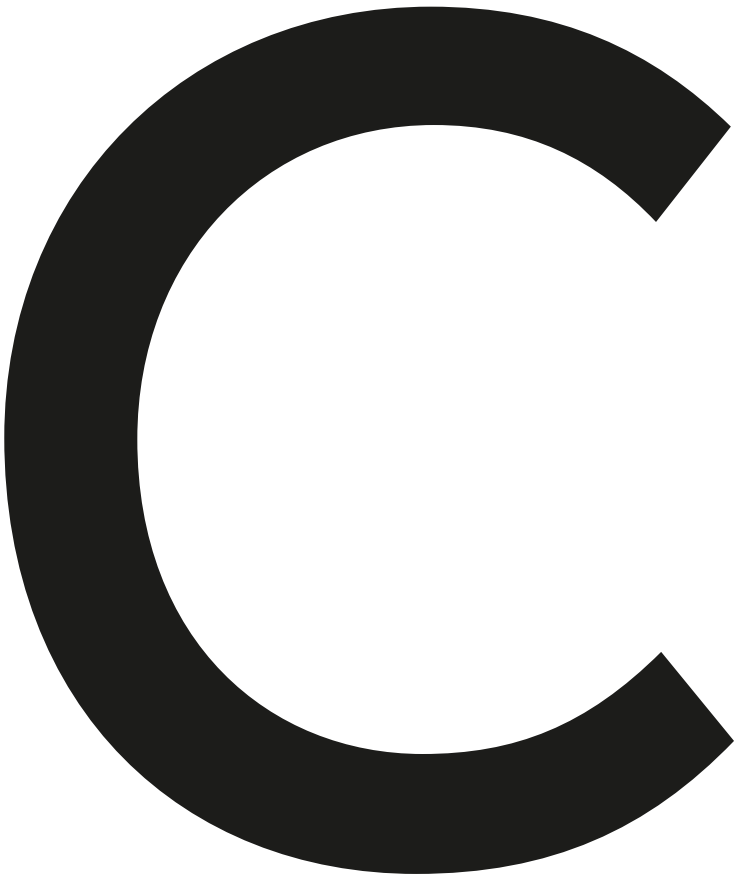

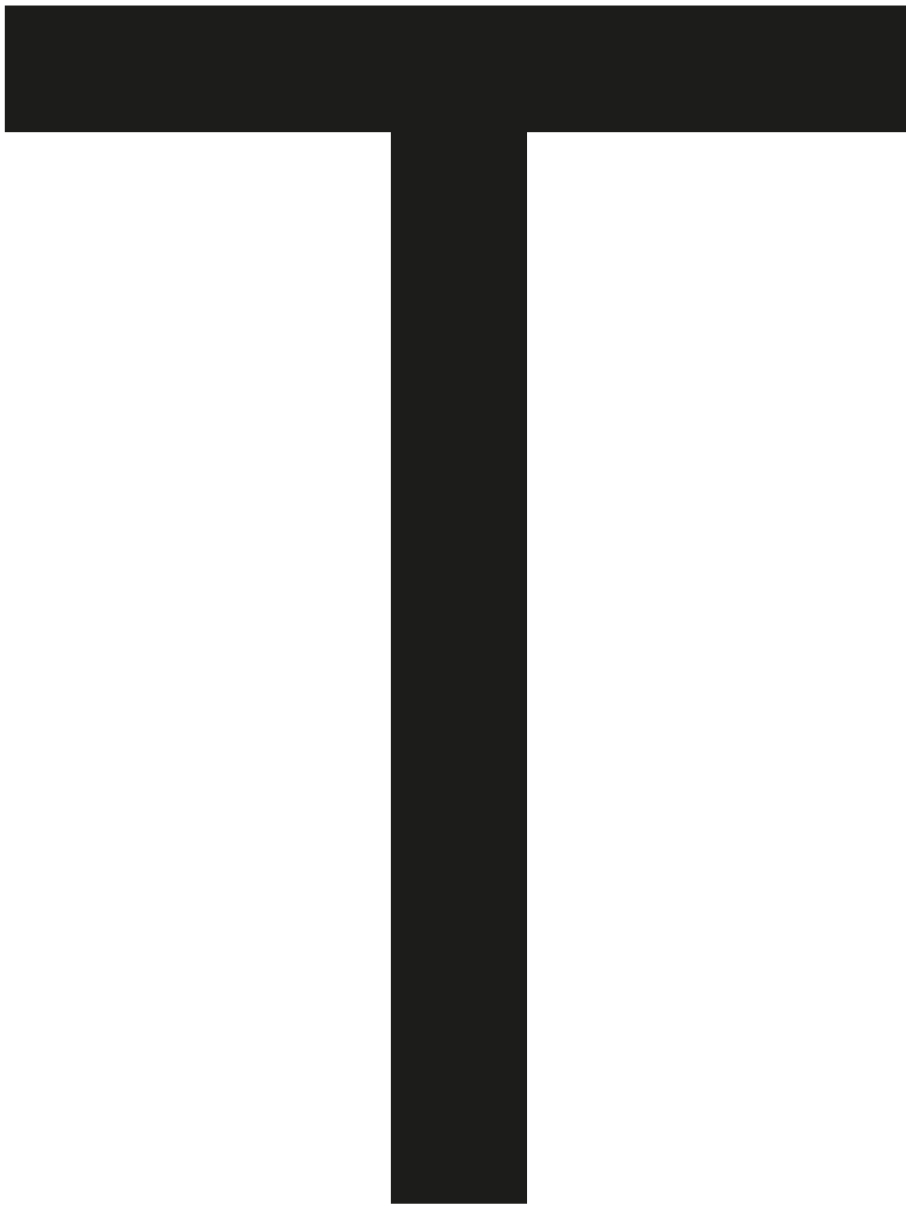

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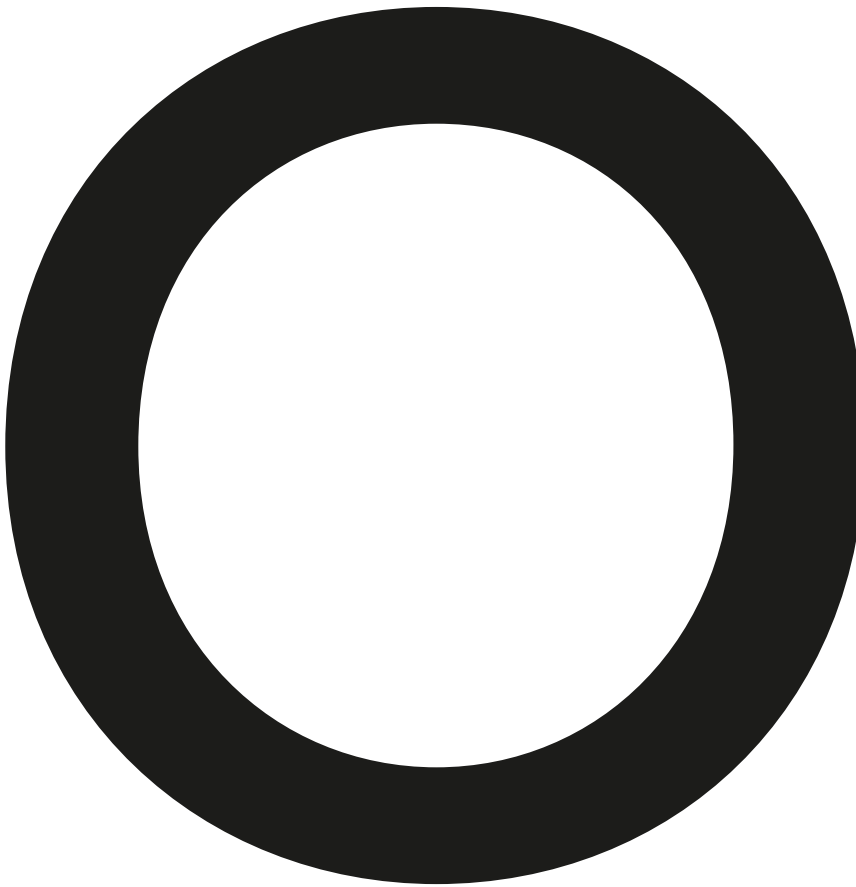

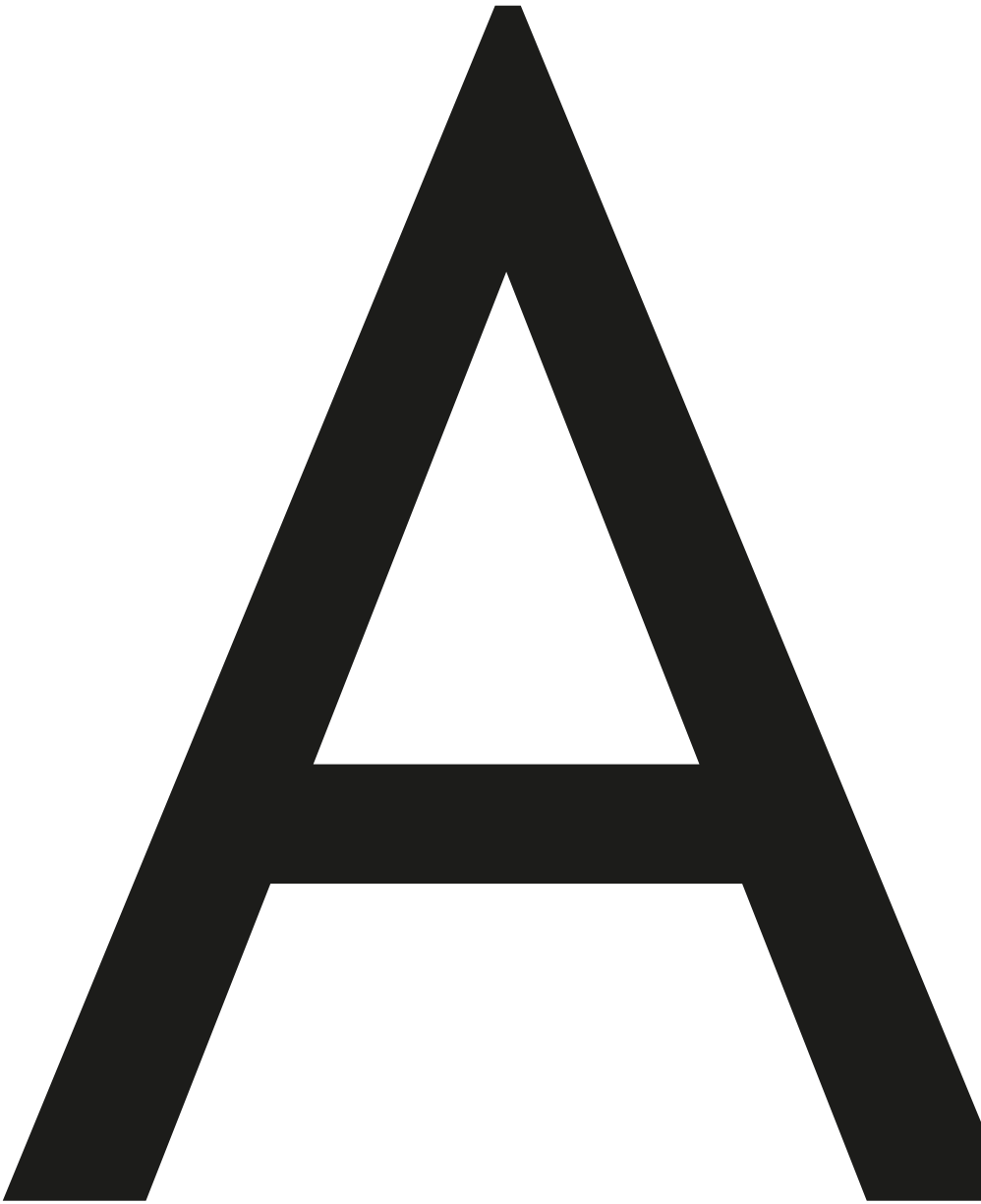

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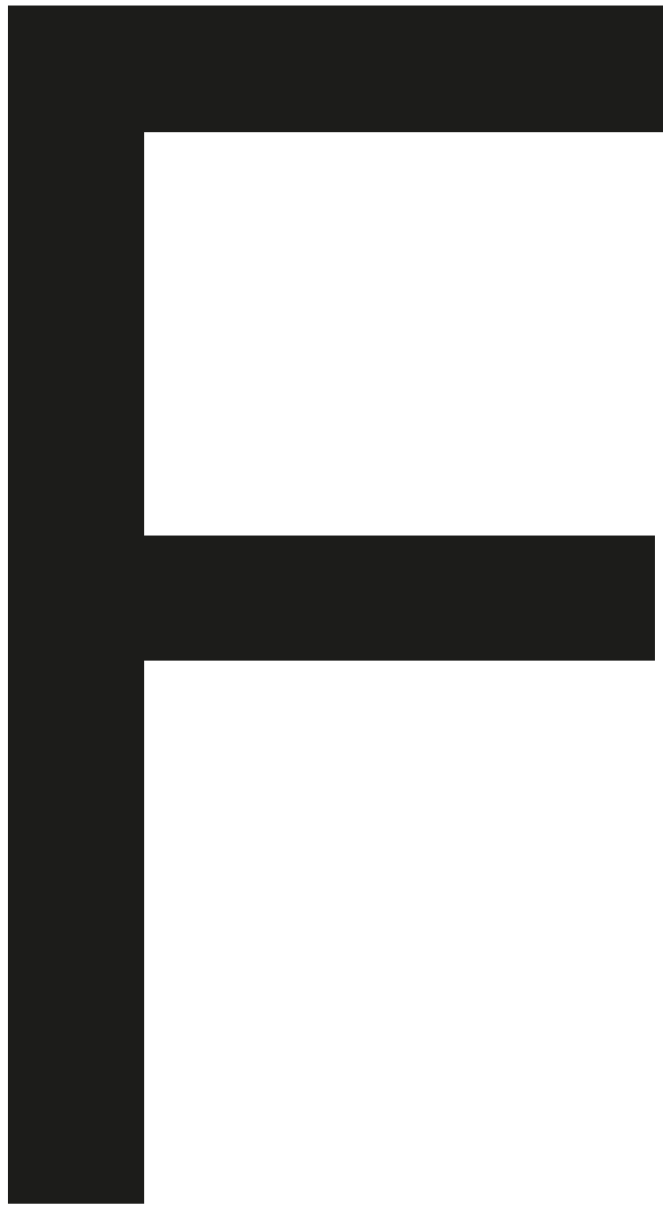

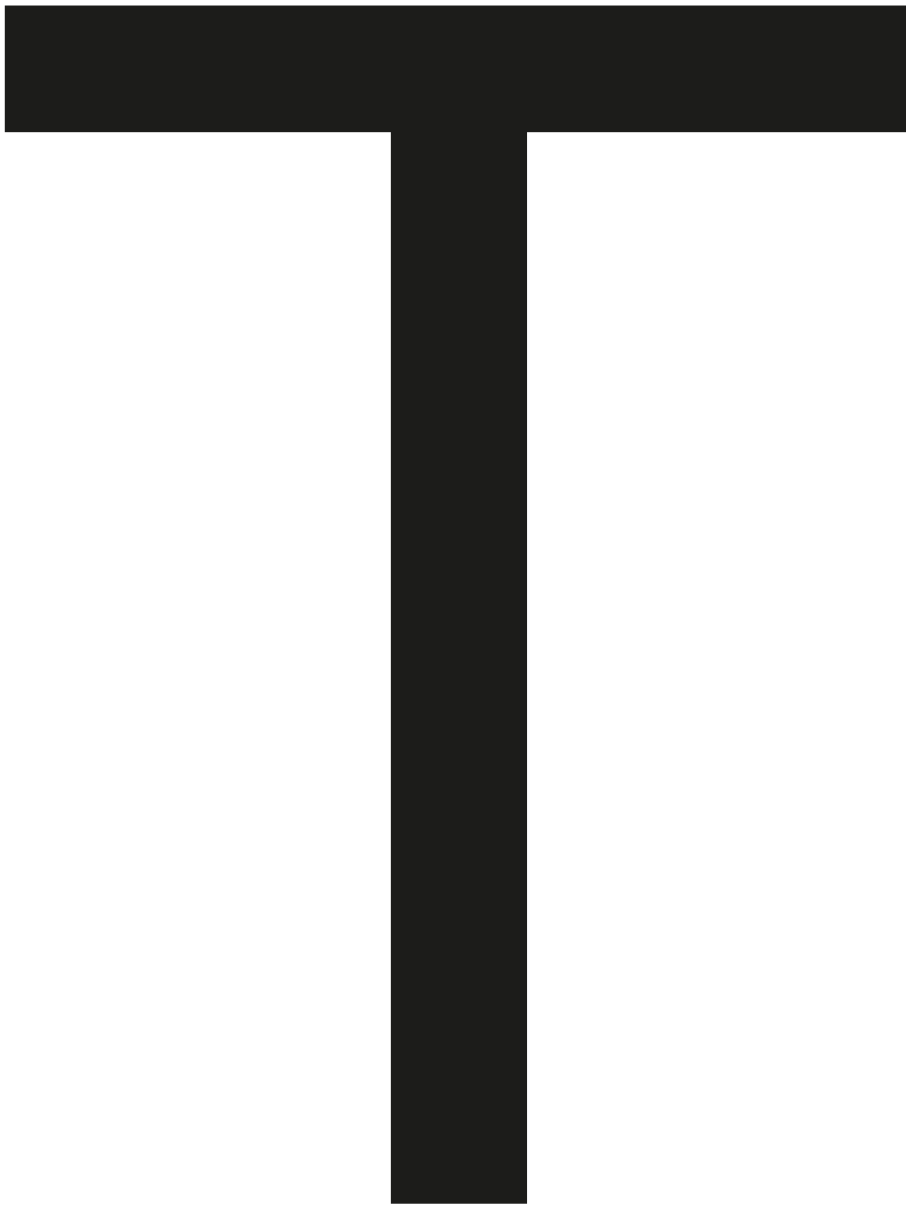

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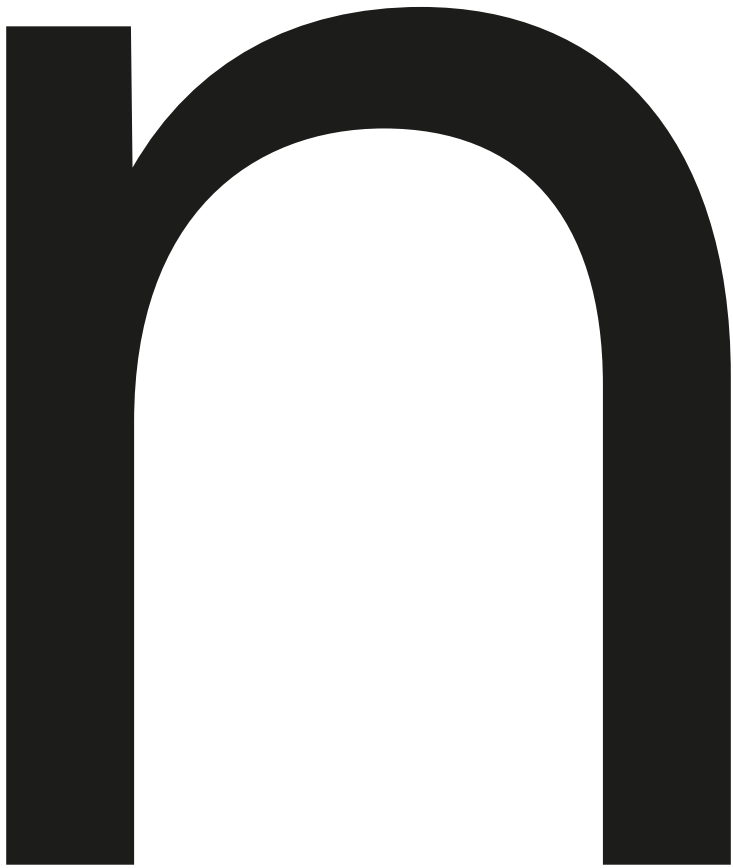

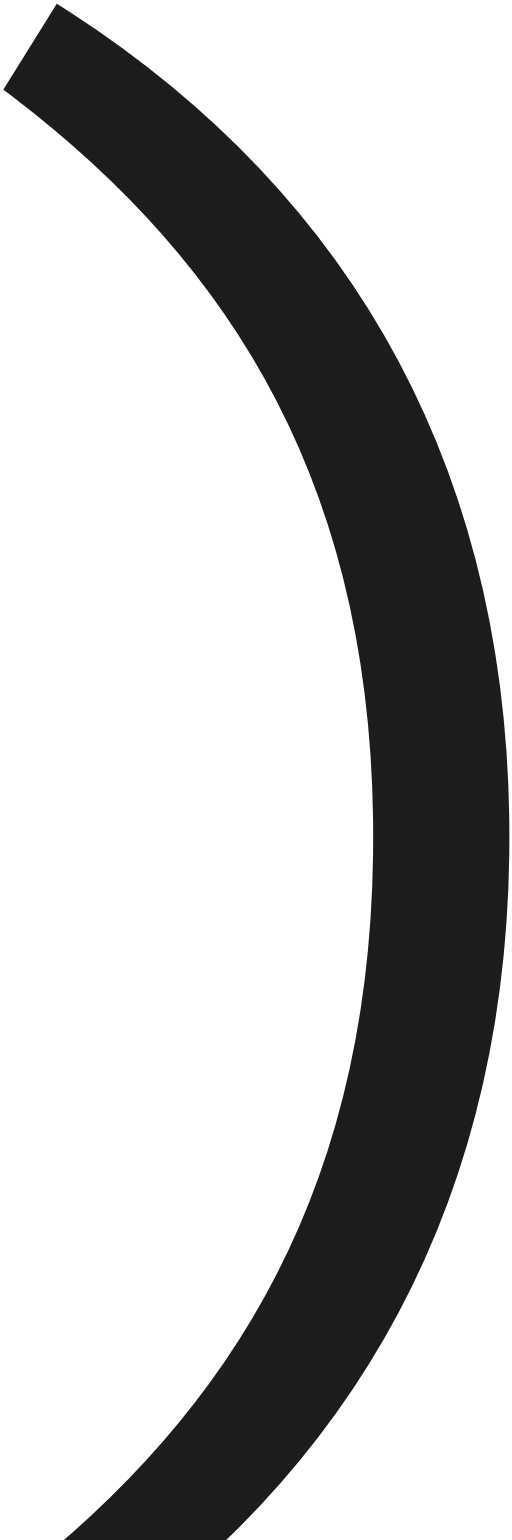

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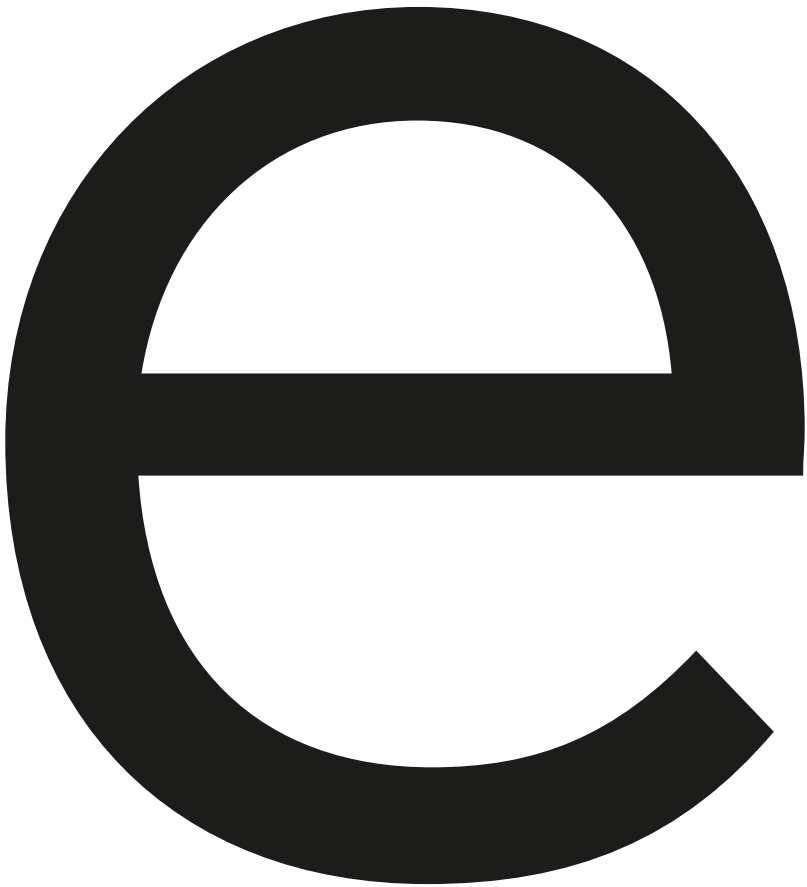

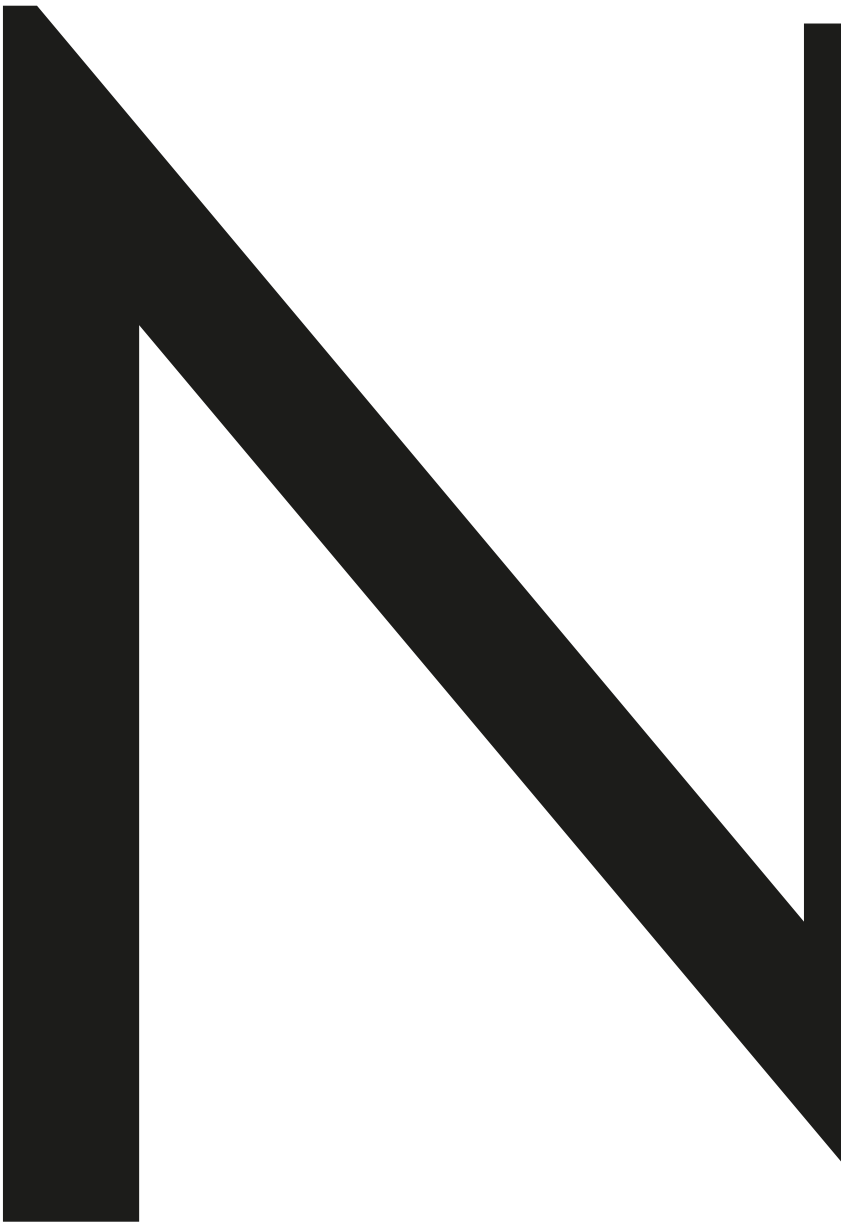

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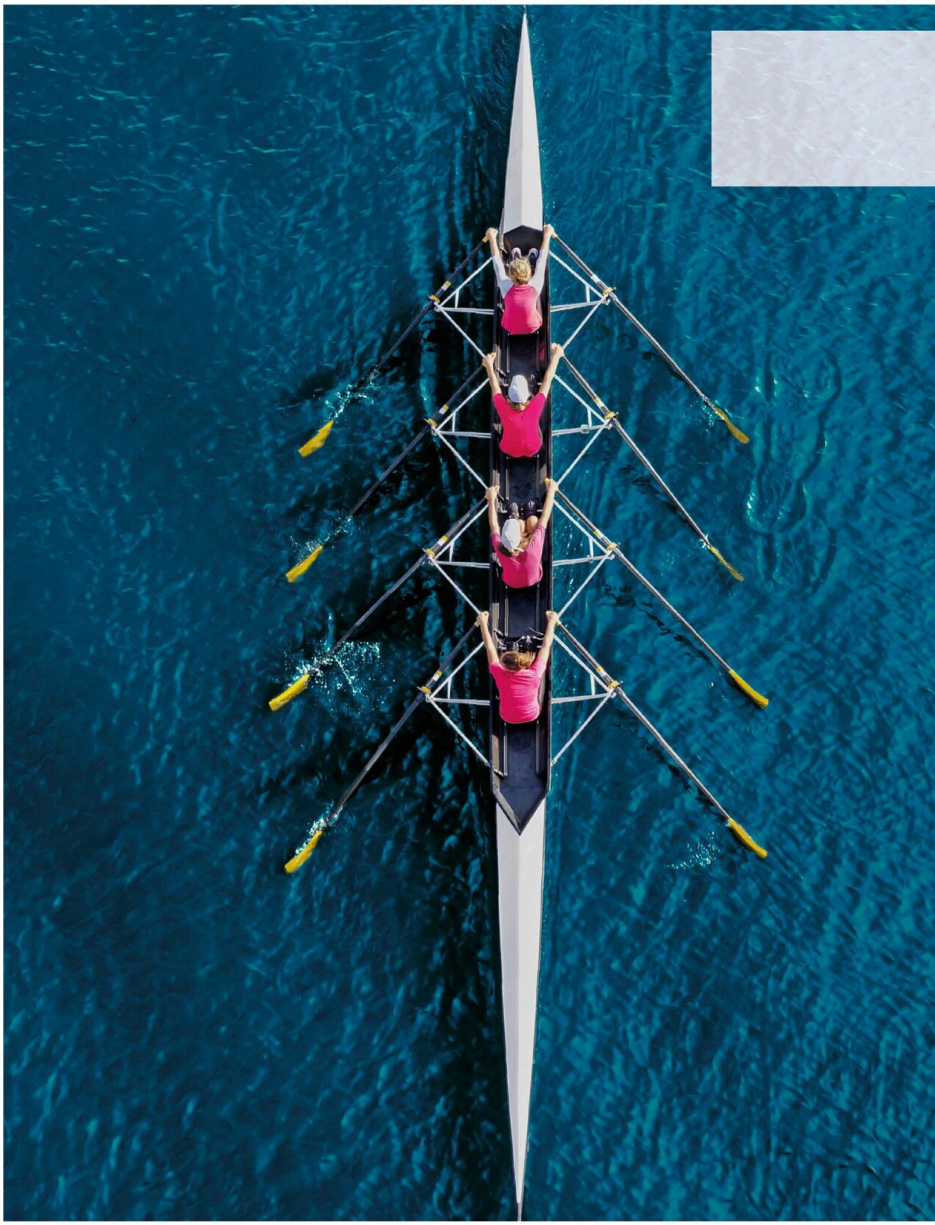

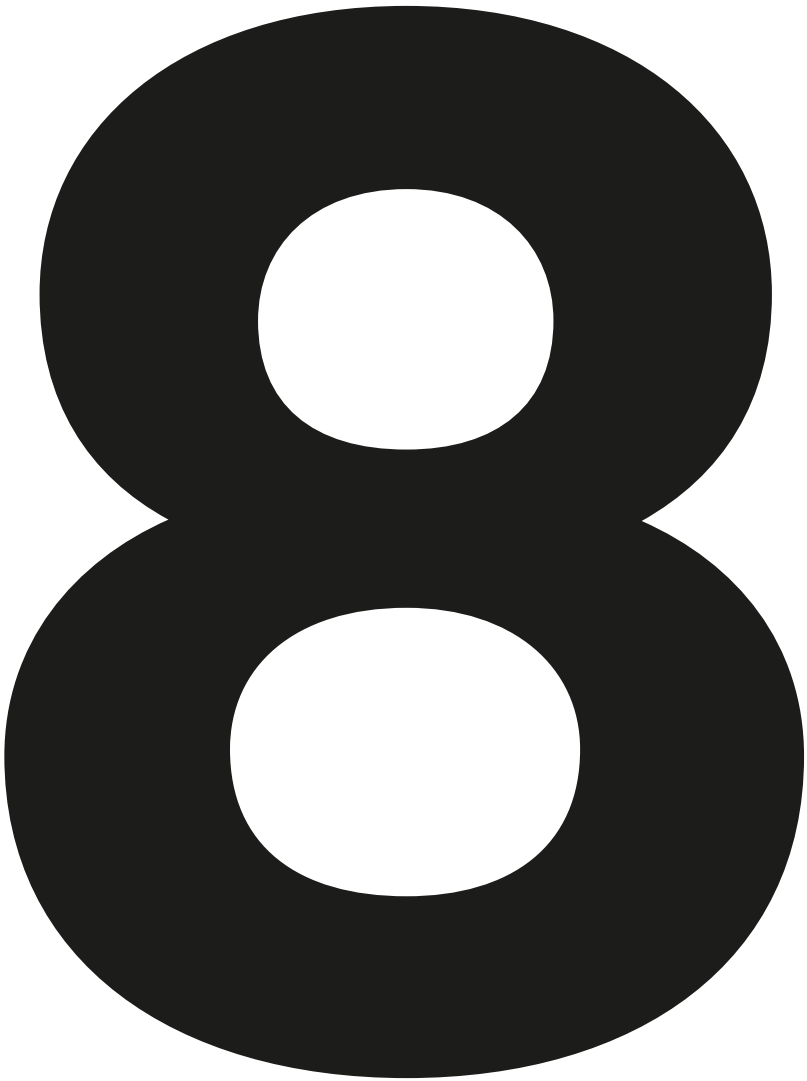

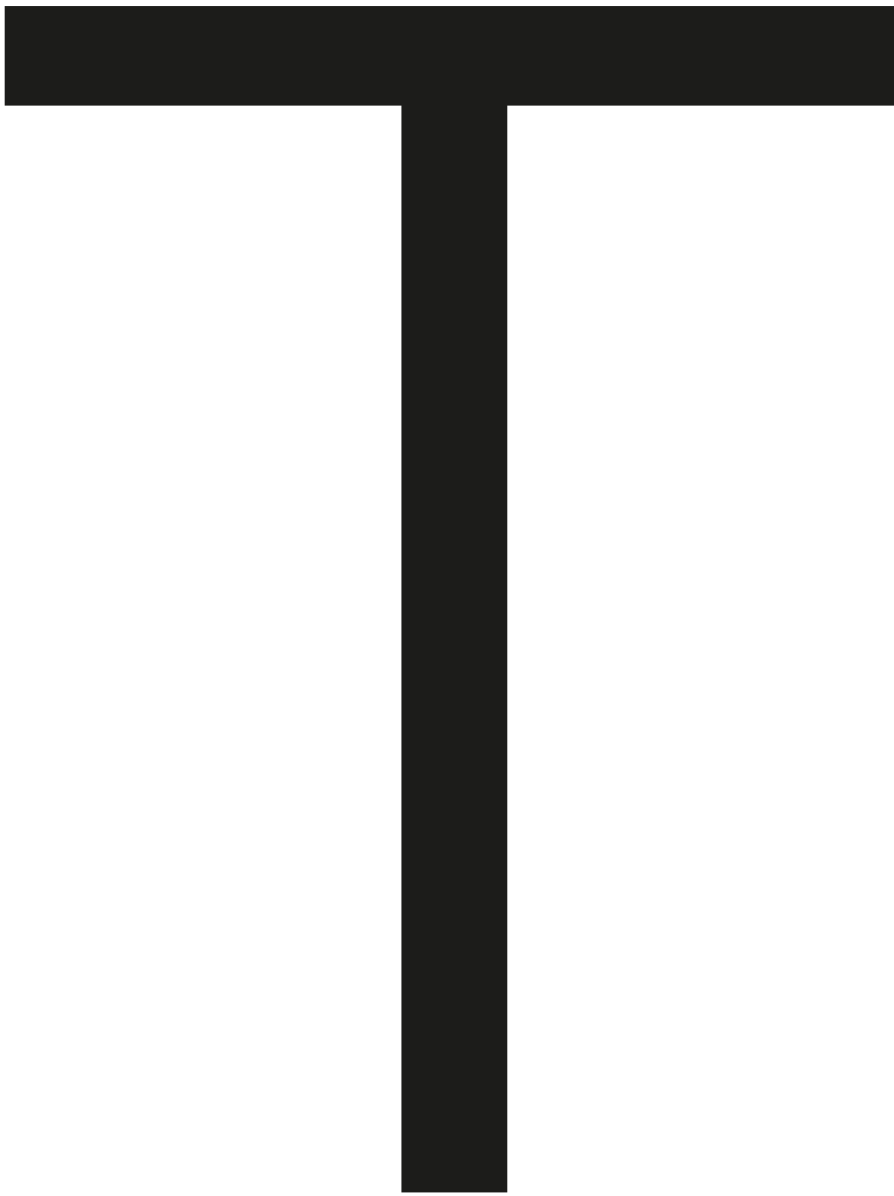

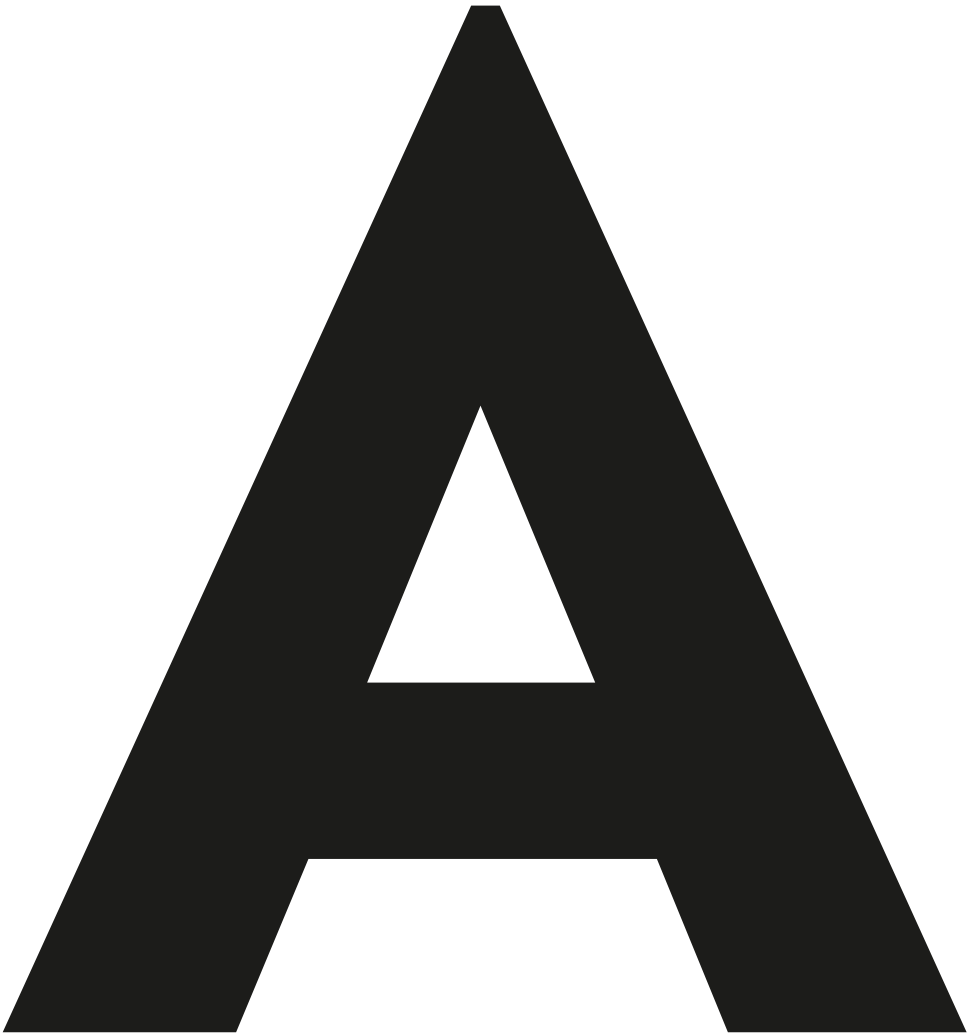

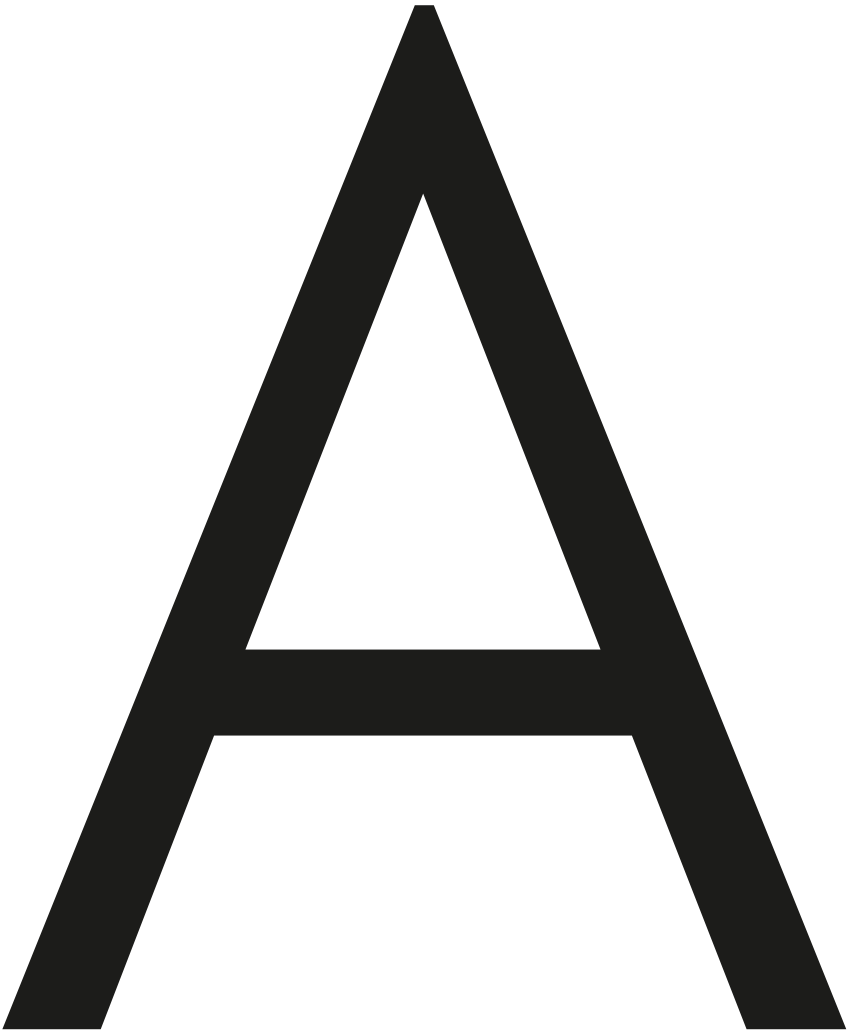

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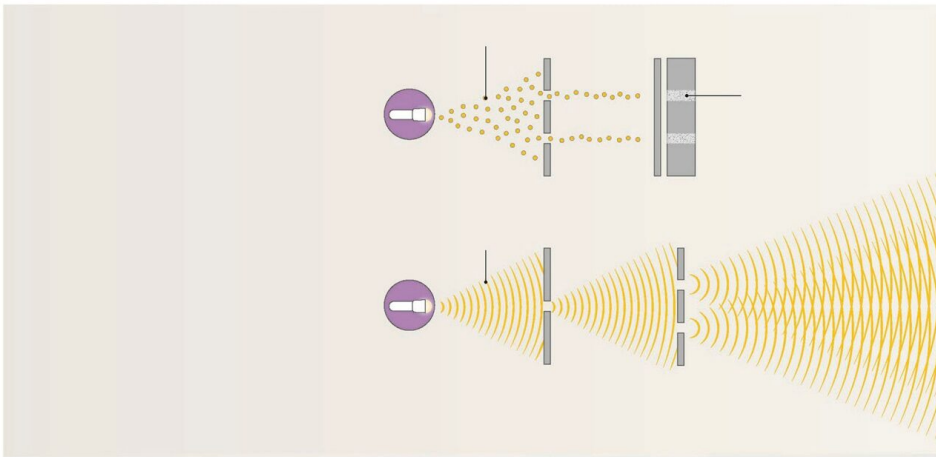

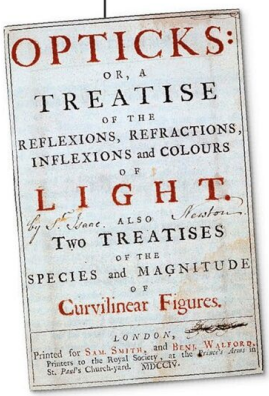
OPTICKS:
OR, A
TREATISE
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OF
LIGHT.
ALSO
Two TREATISES
OF THE
SPECIES and MAGNITUDE
OF
Curvilinear Figures.
LONDON,
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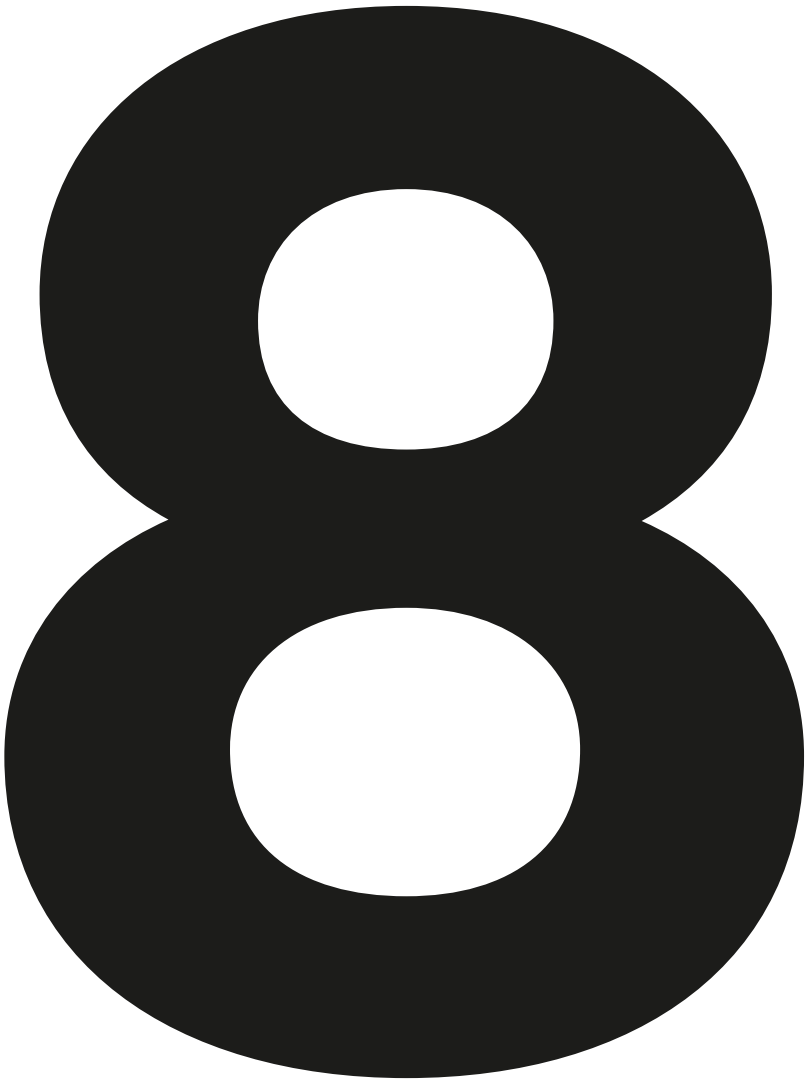

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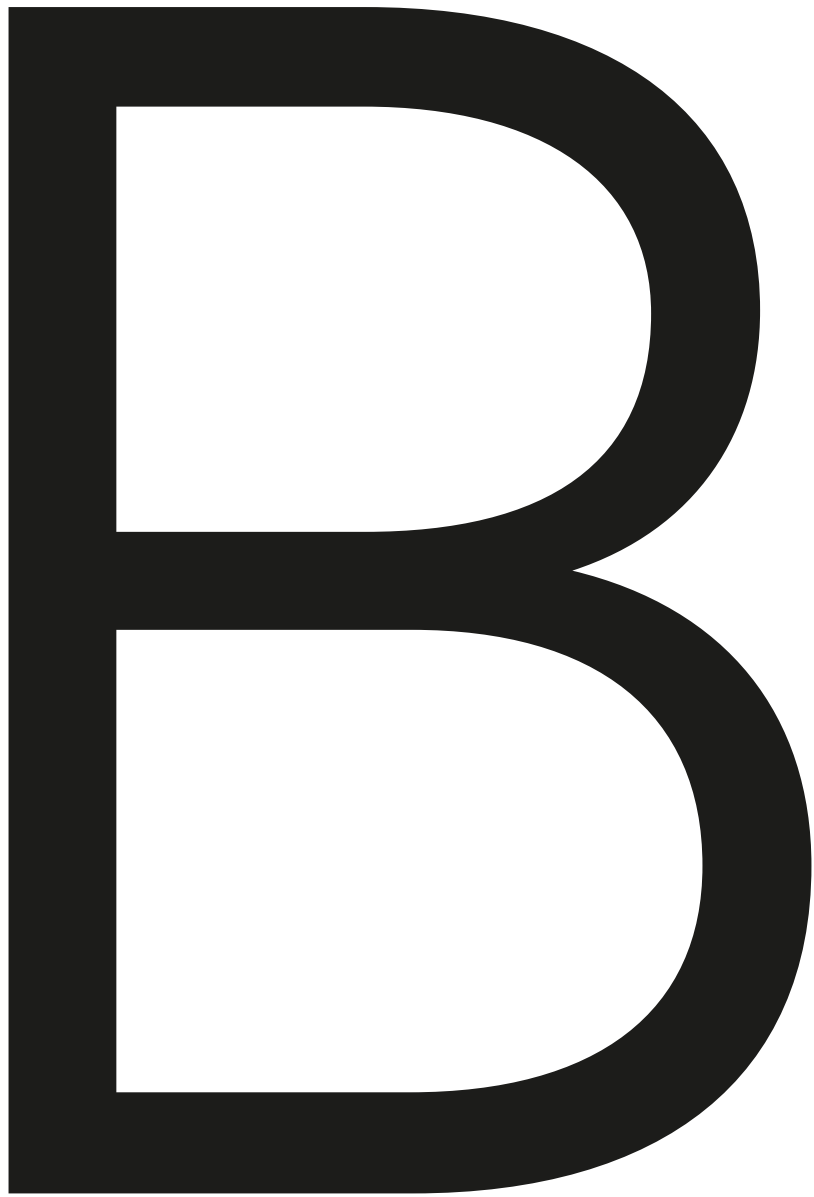

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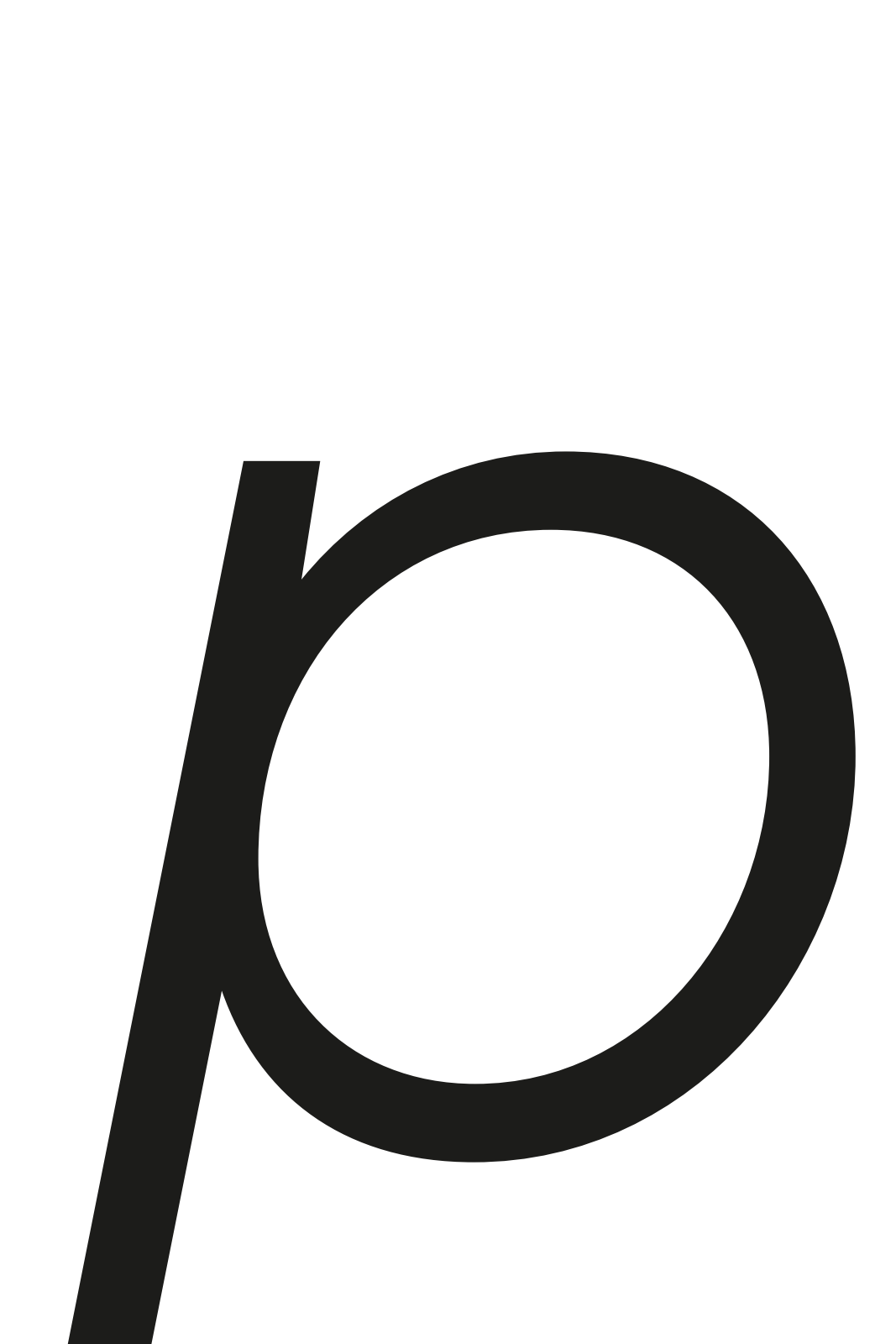

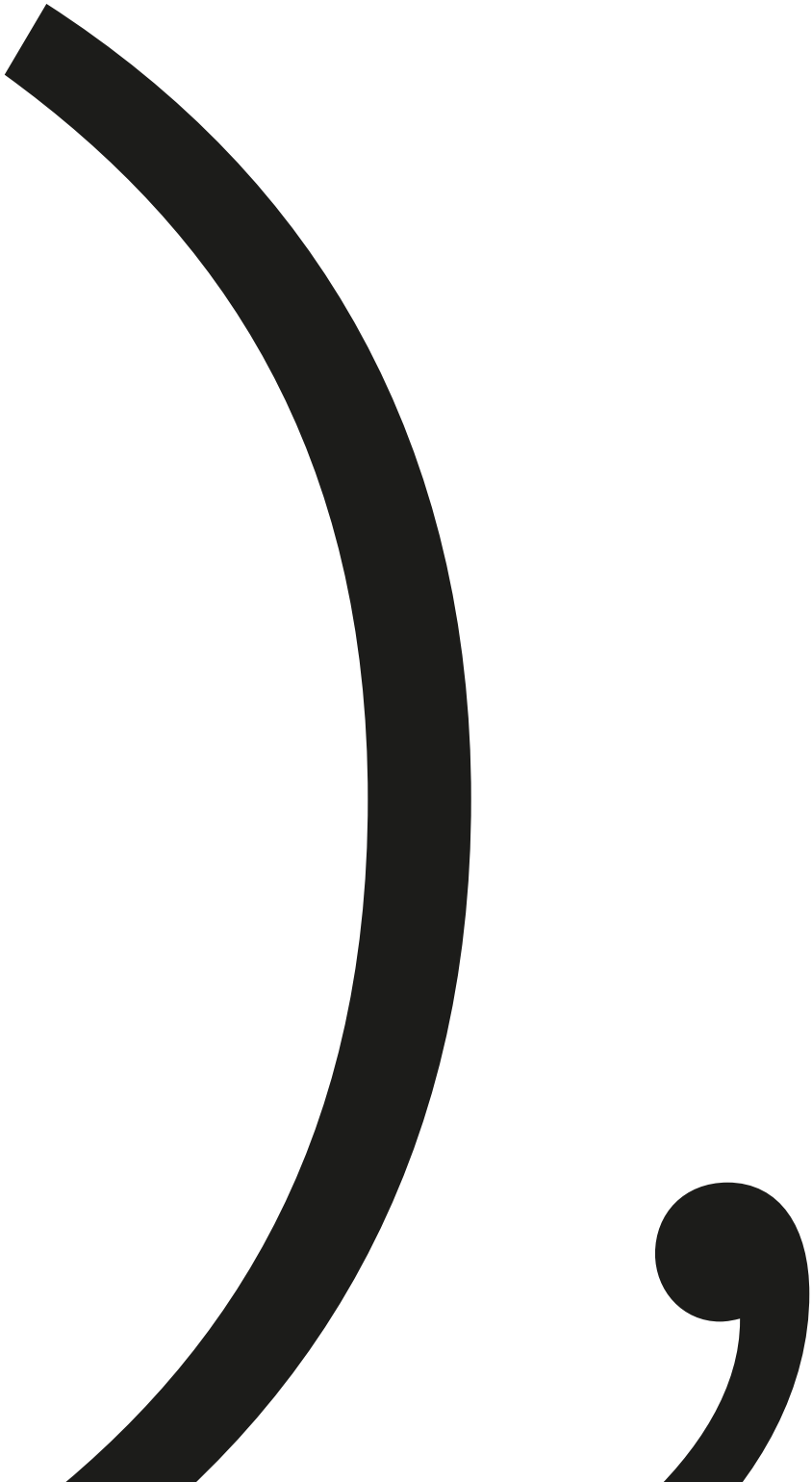

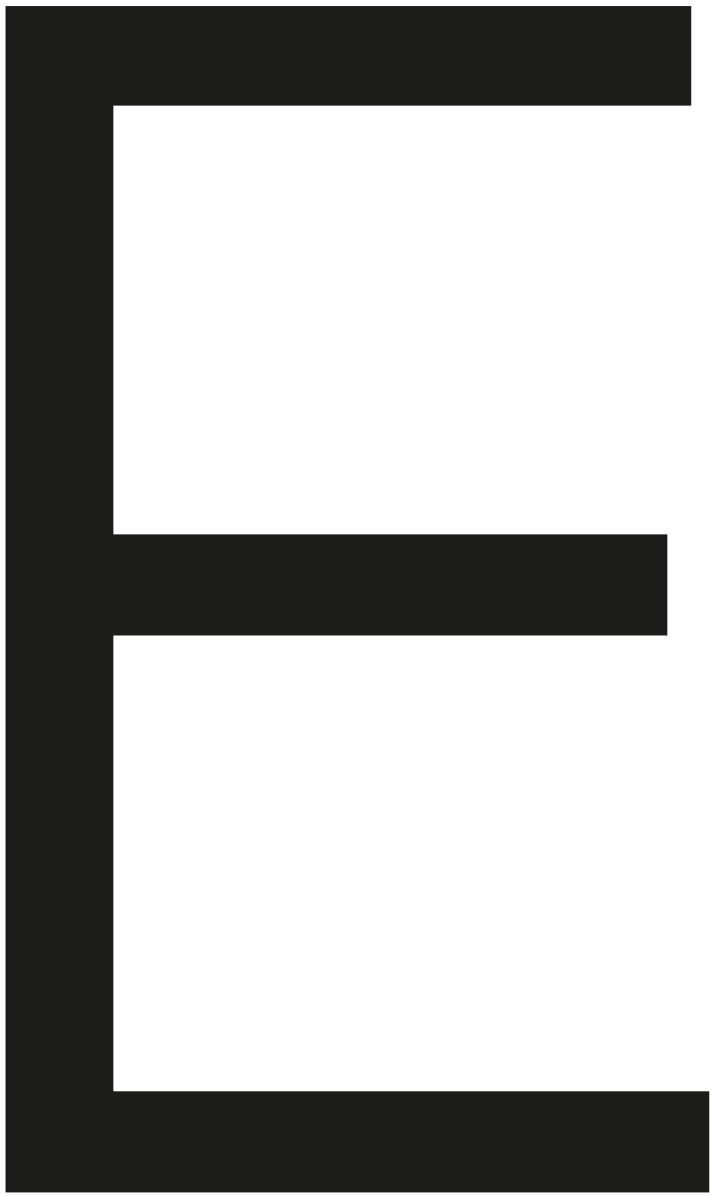

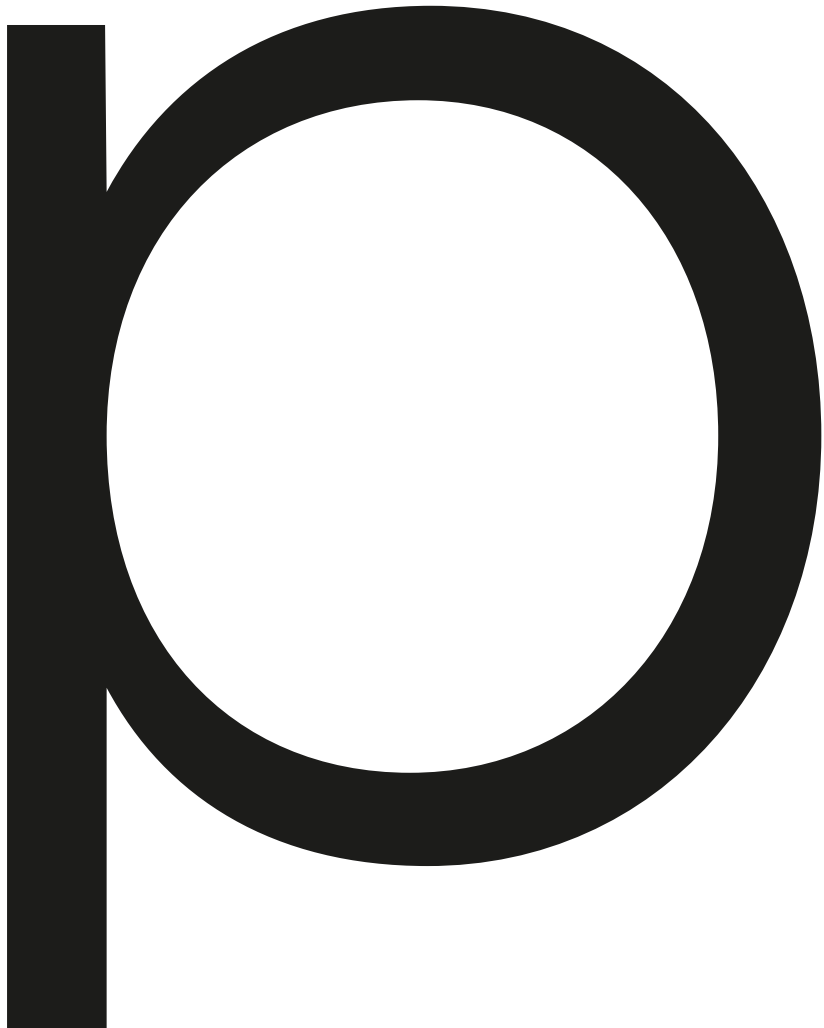

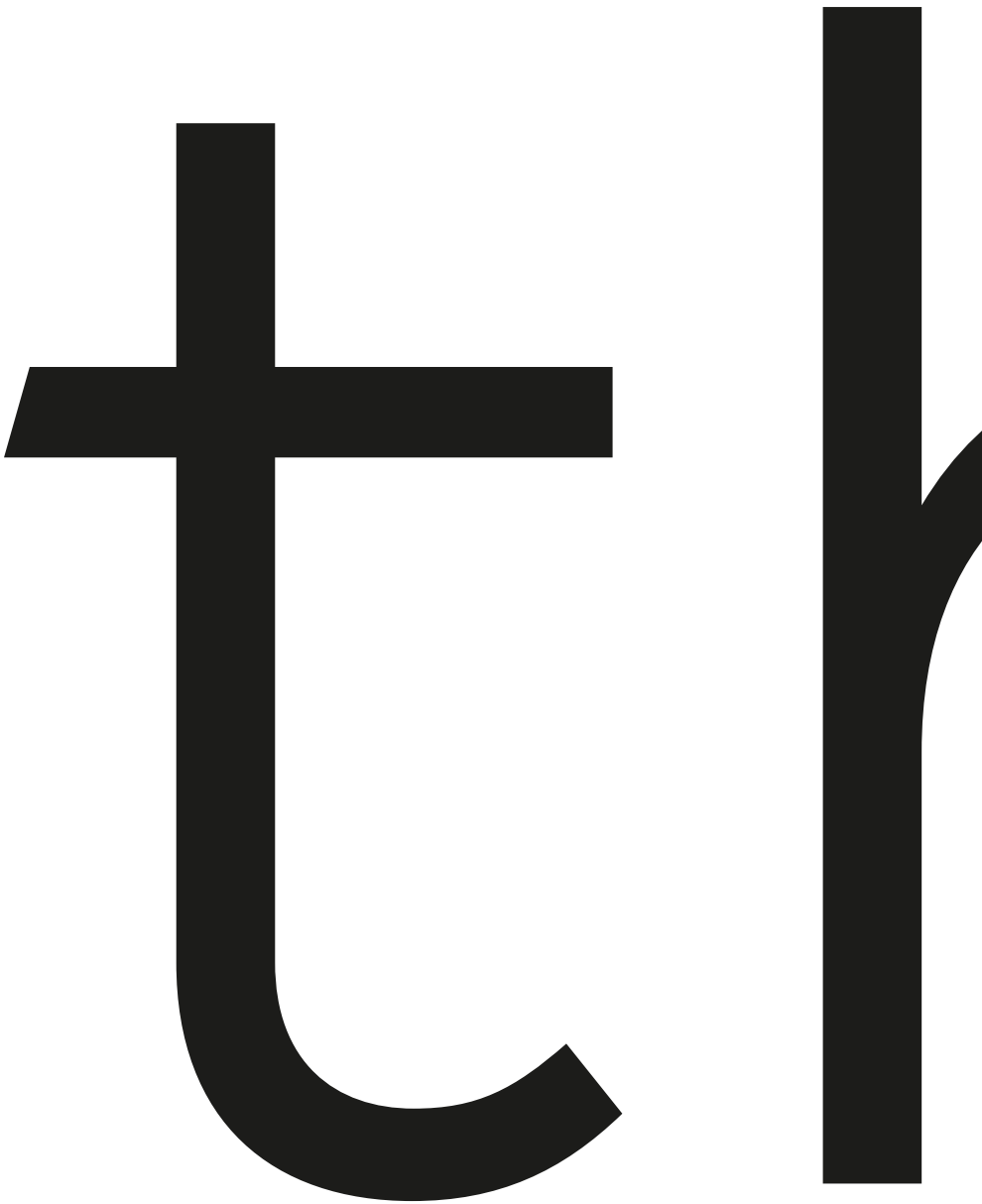

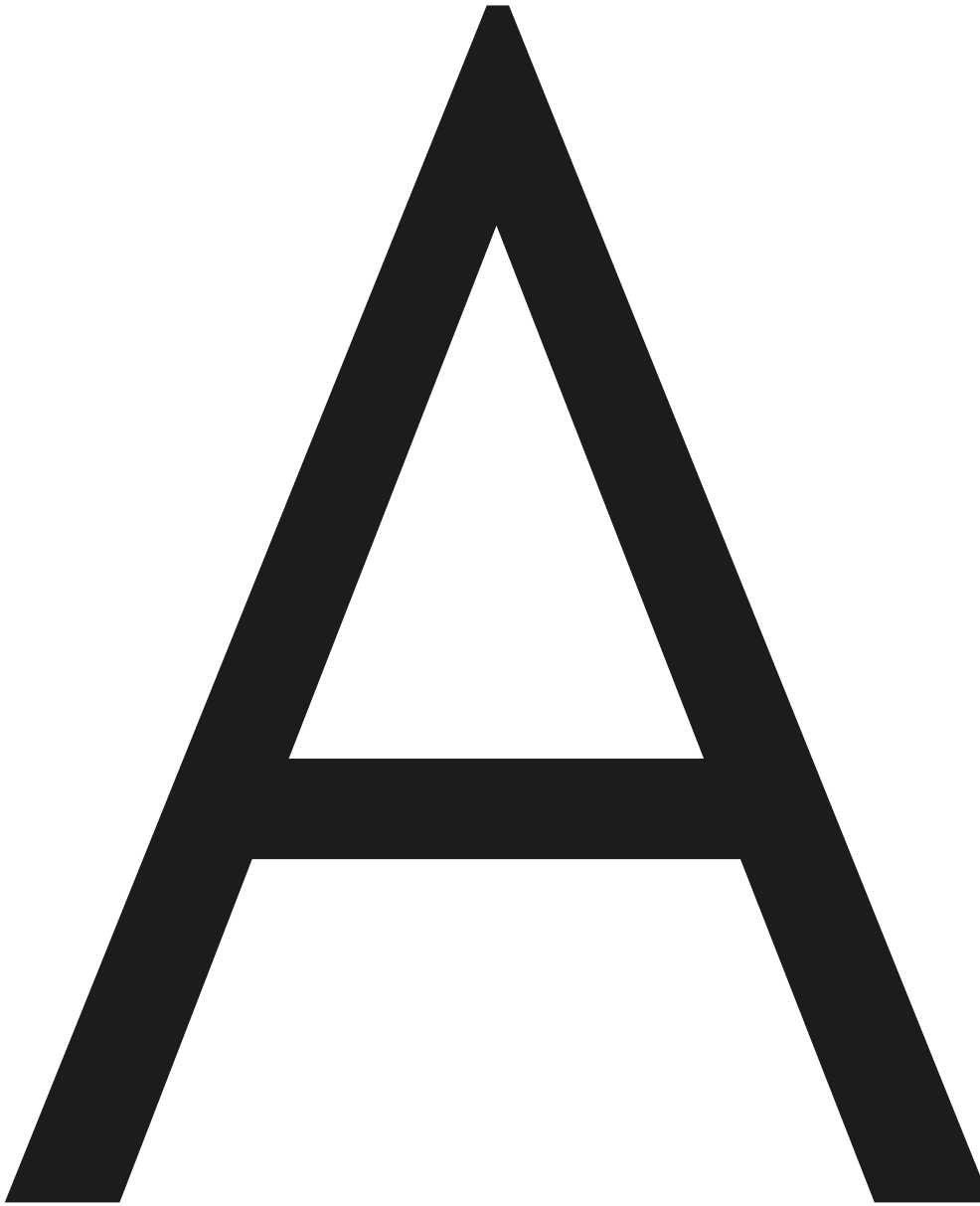

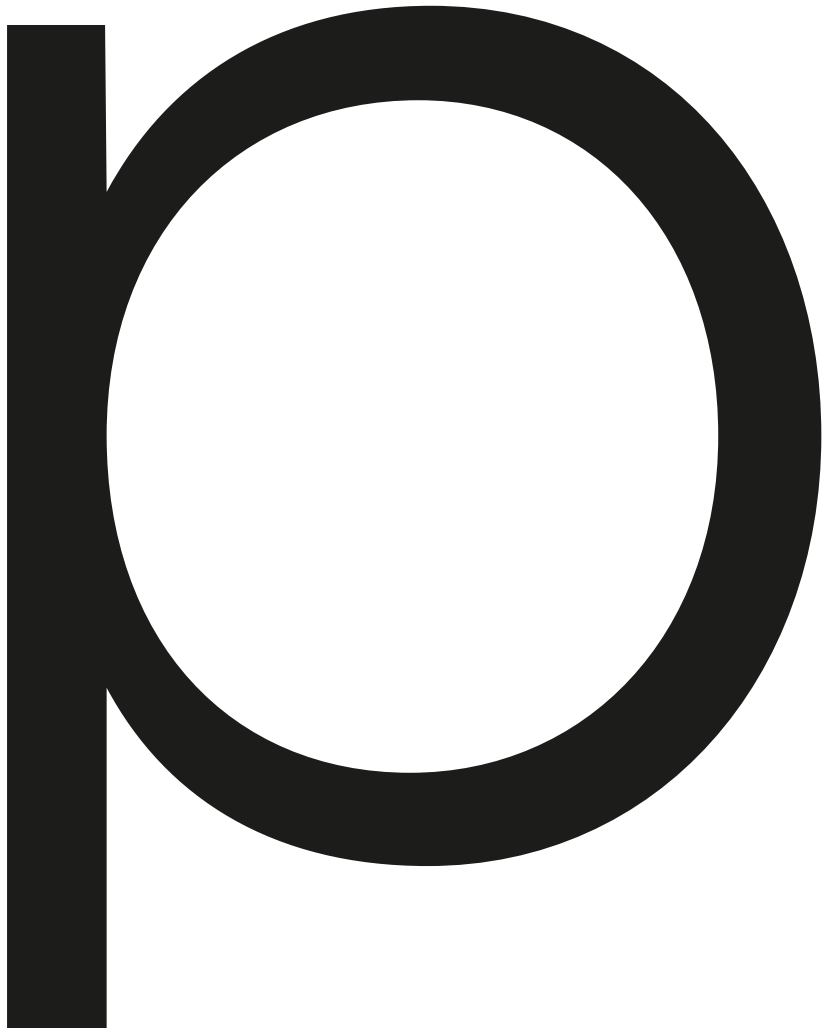

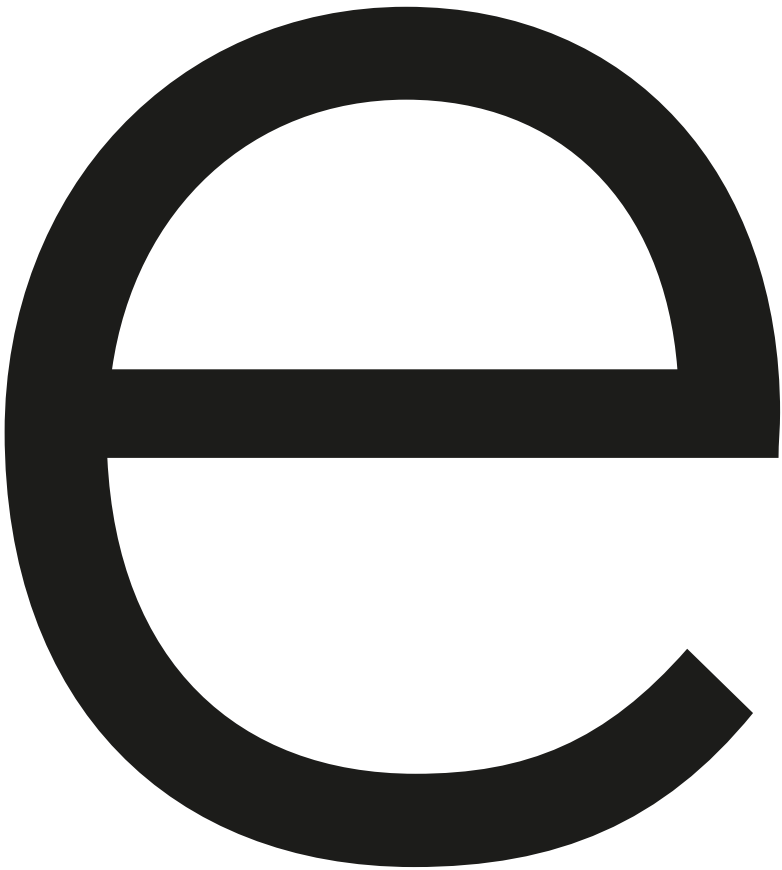

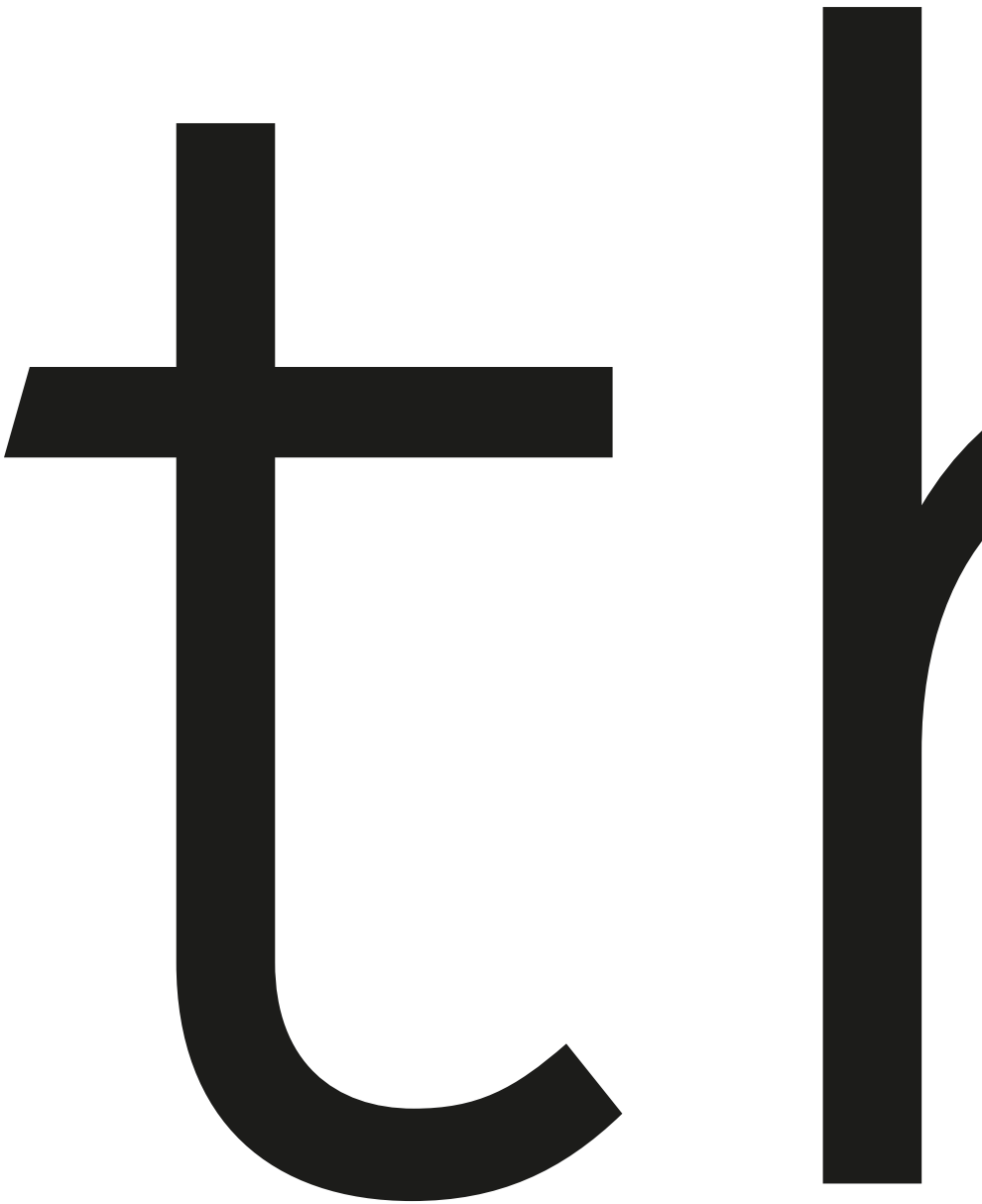

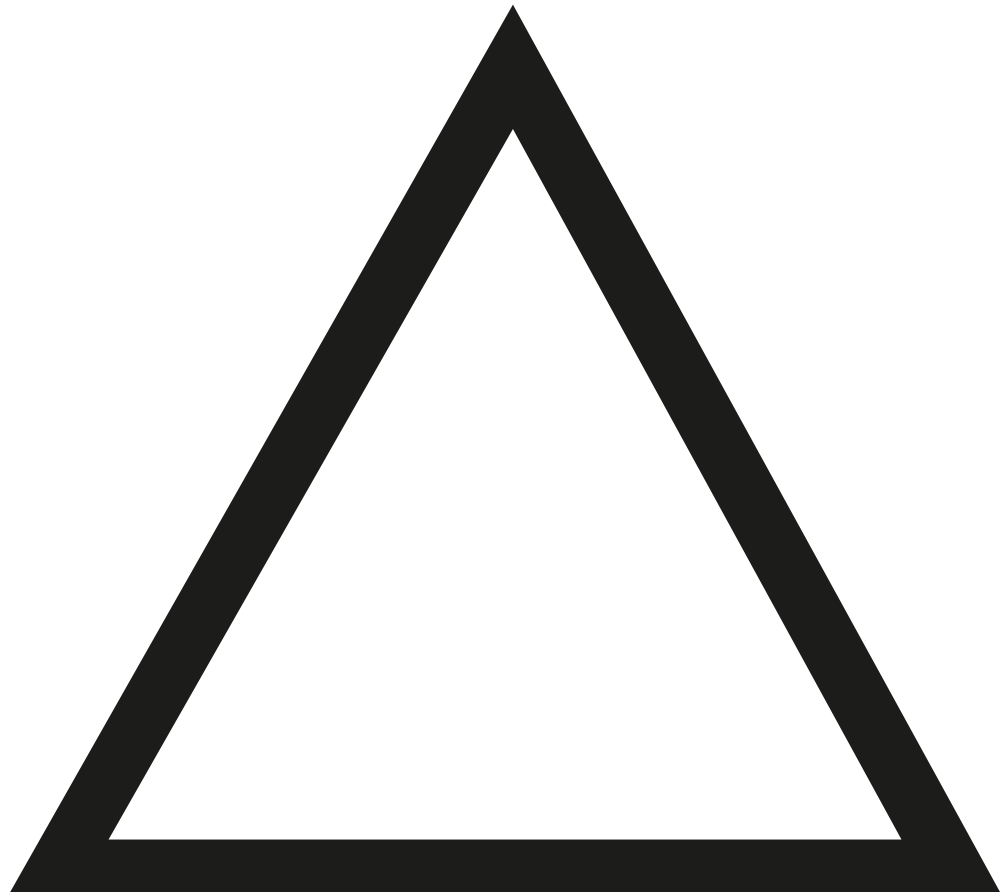

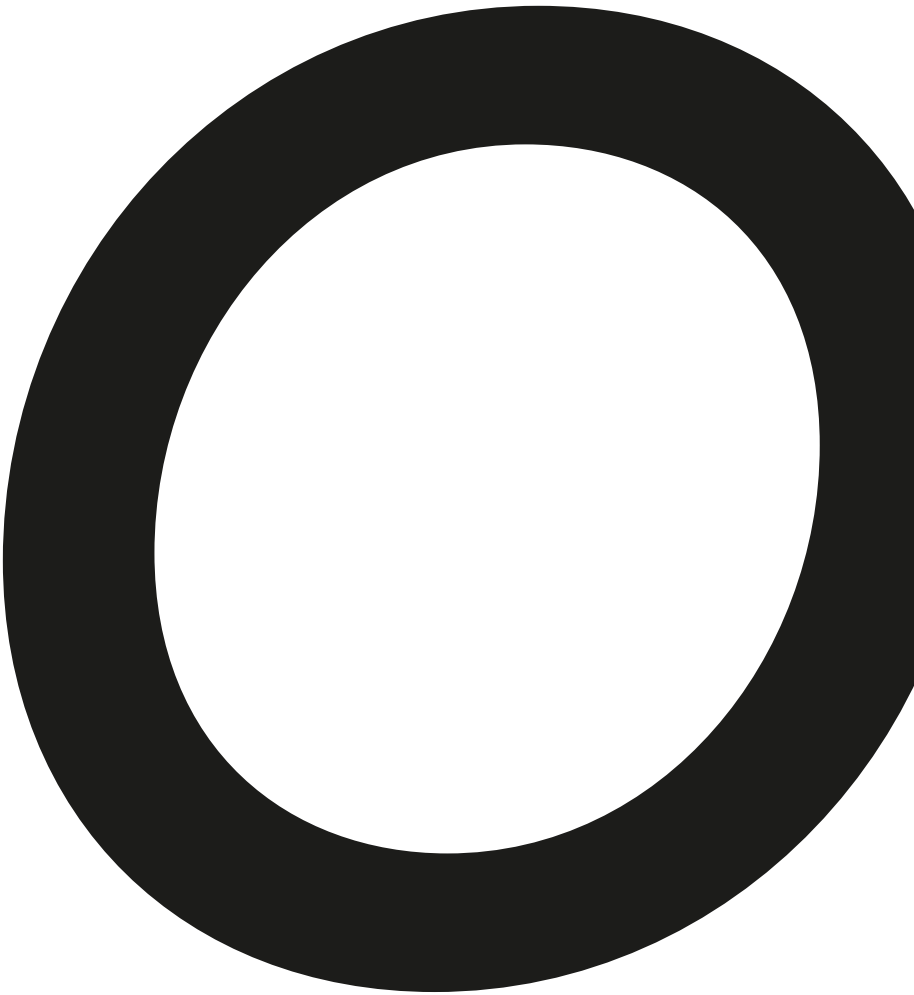

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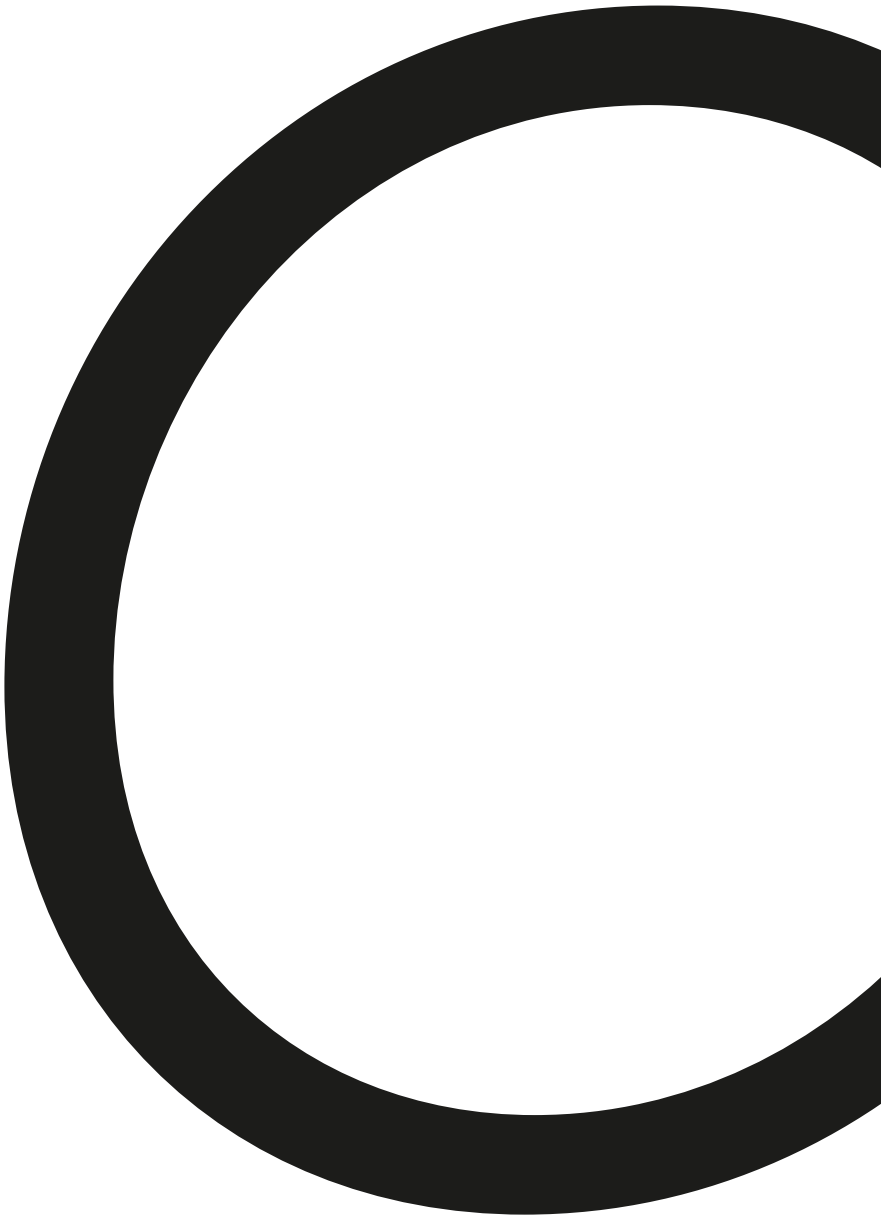

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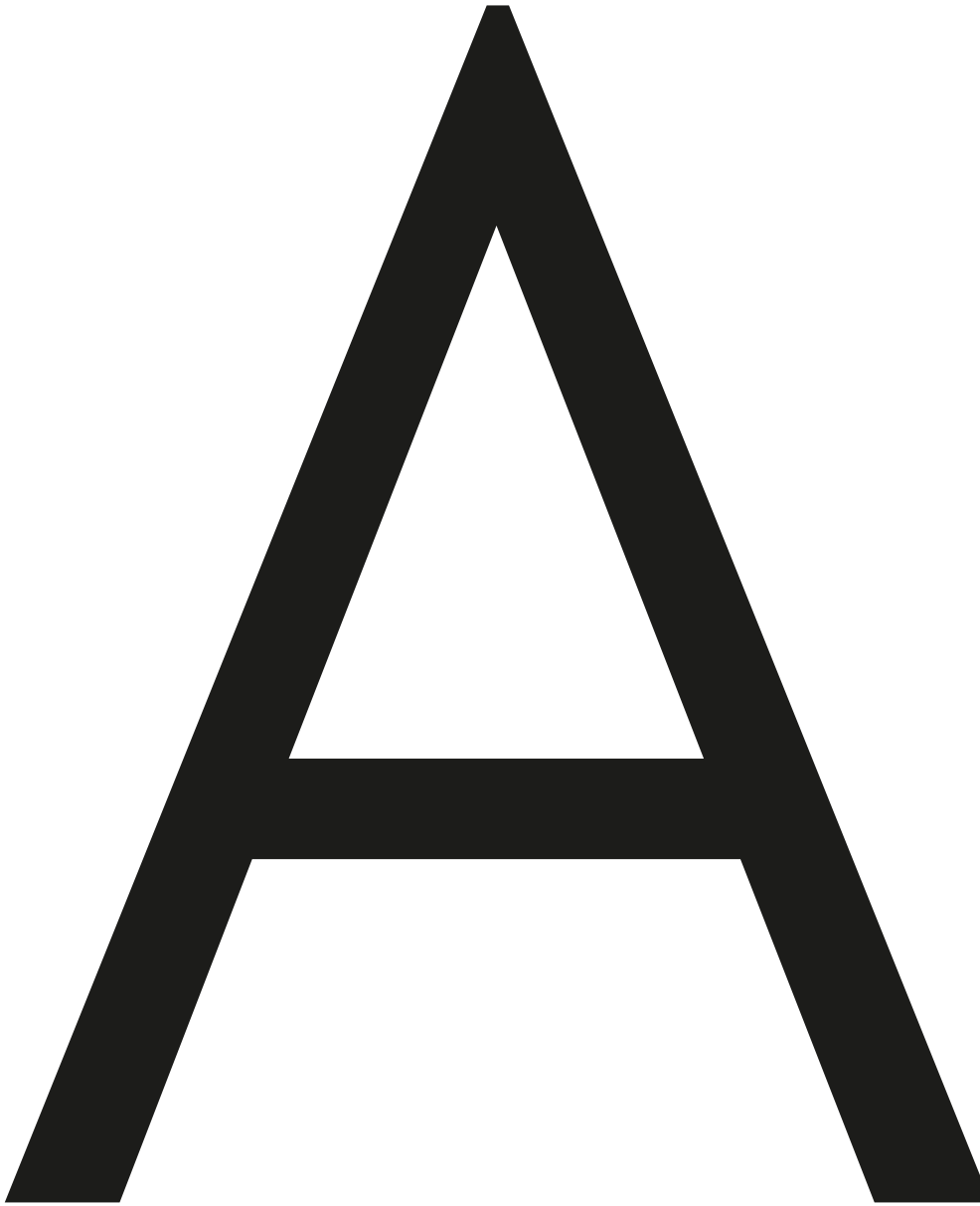

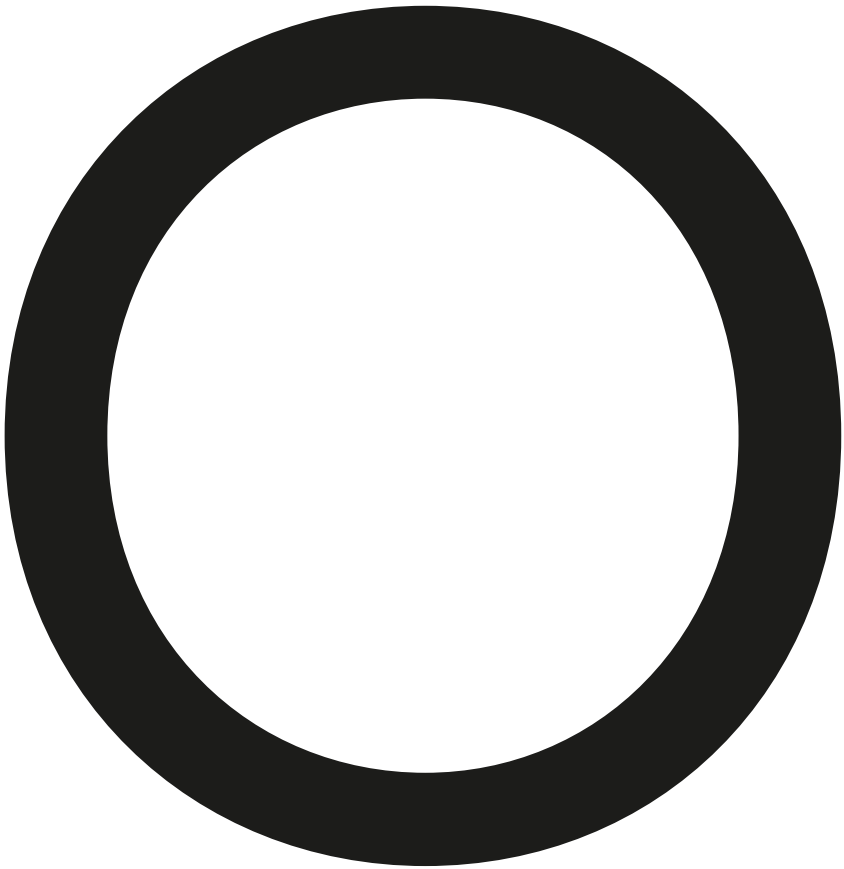

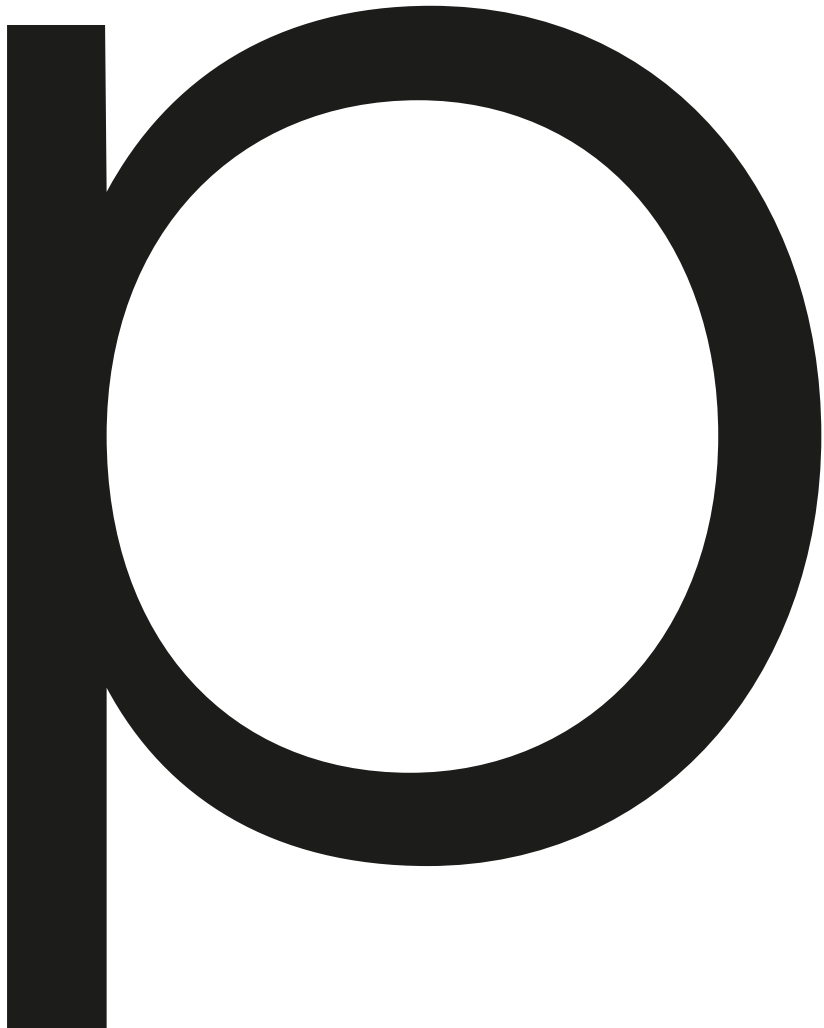

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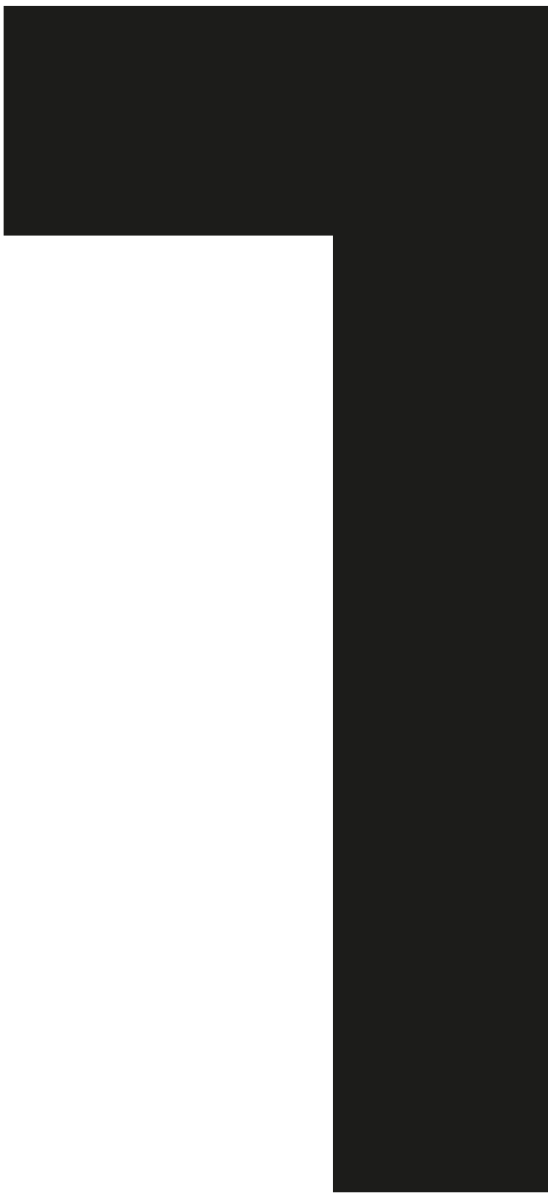

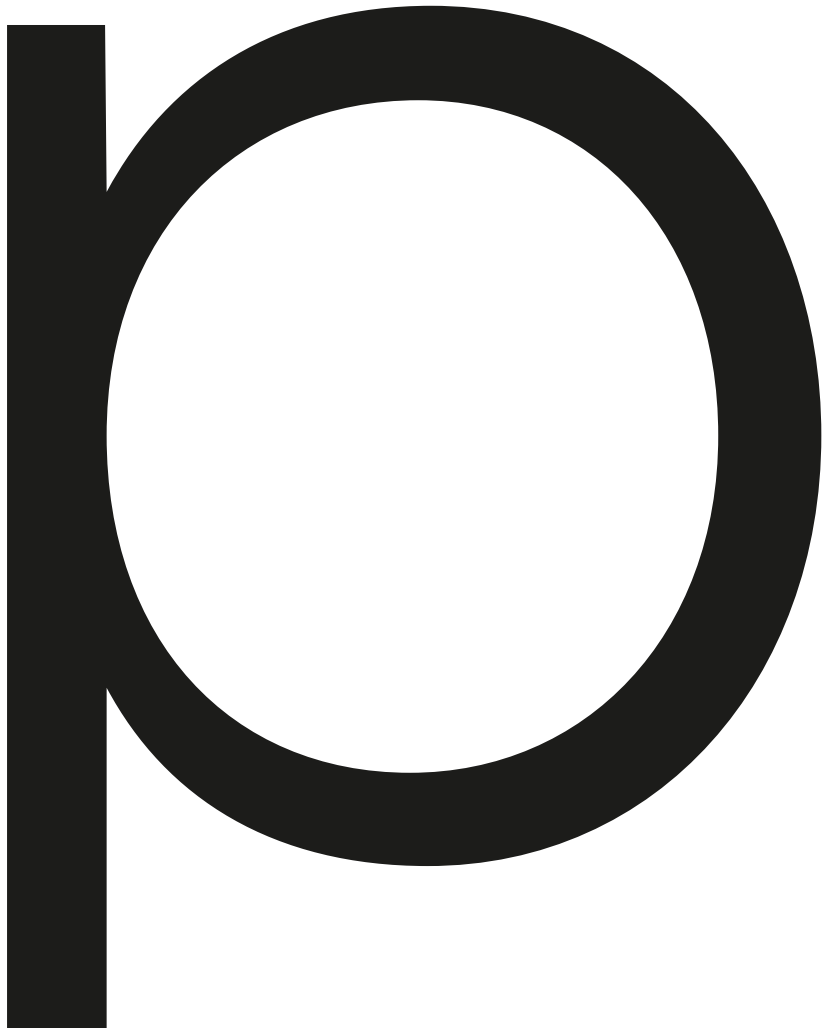

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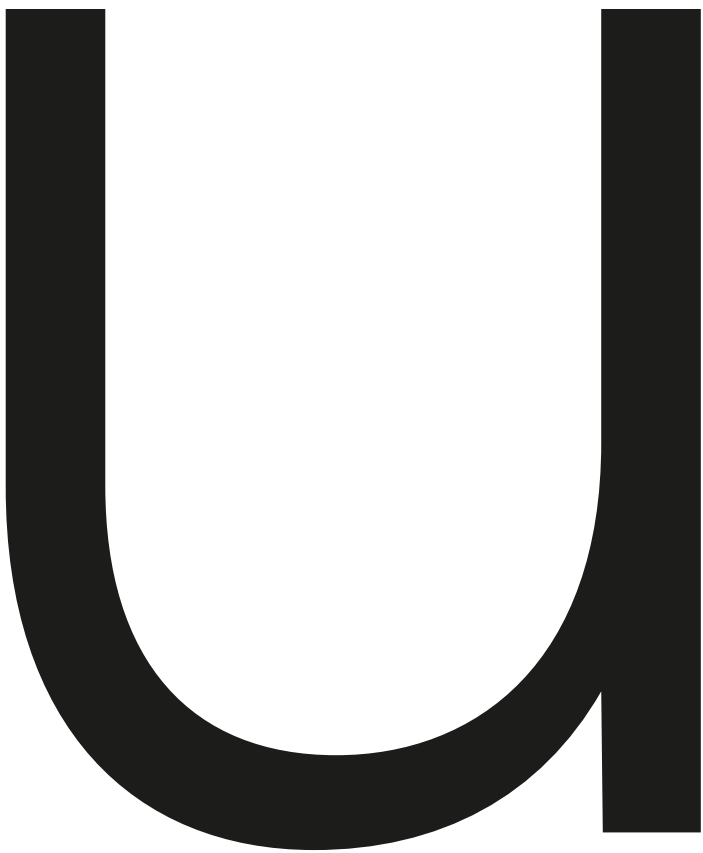

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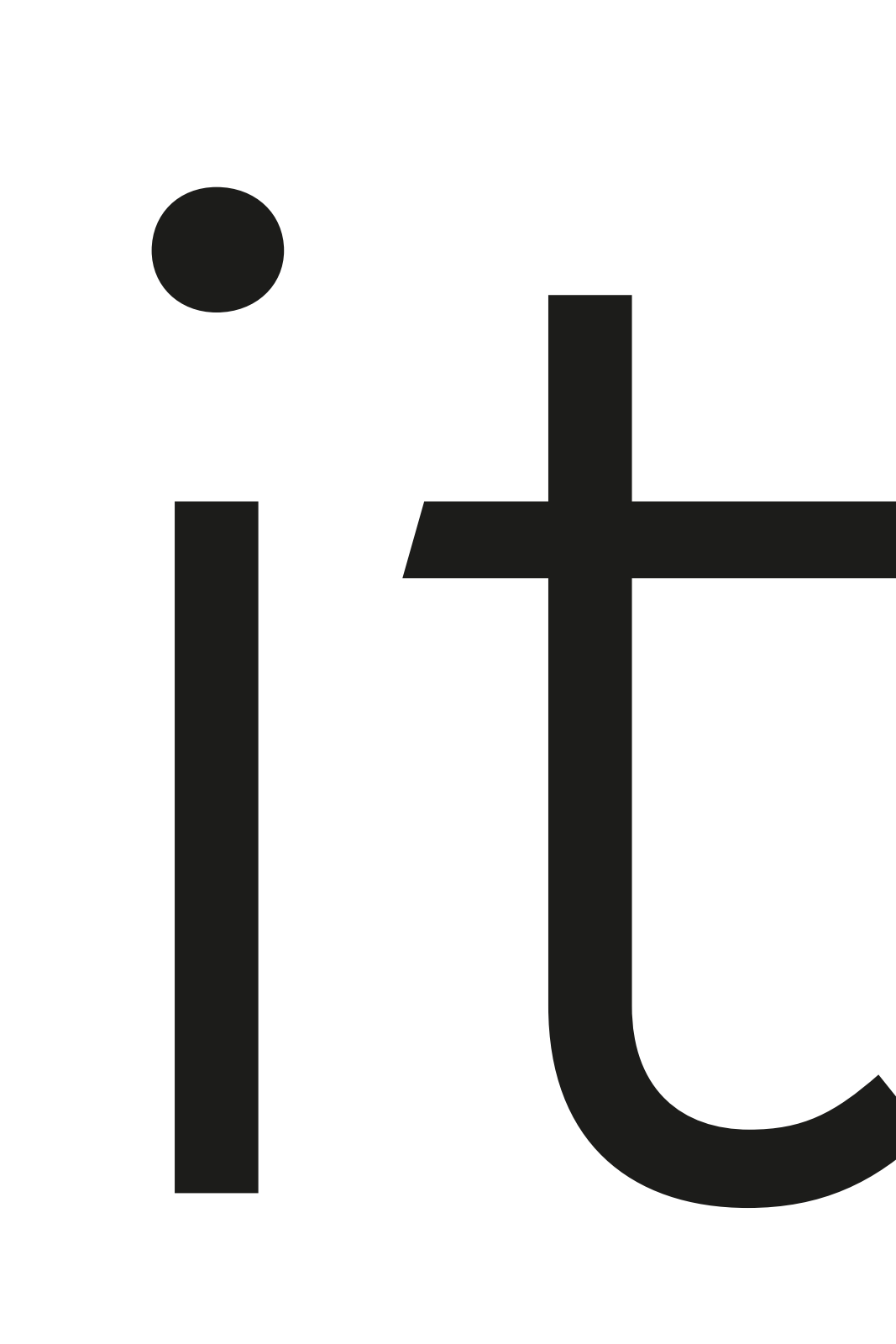
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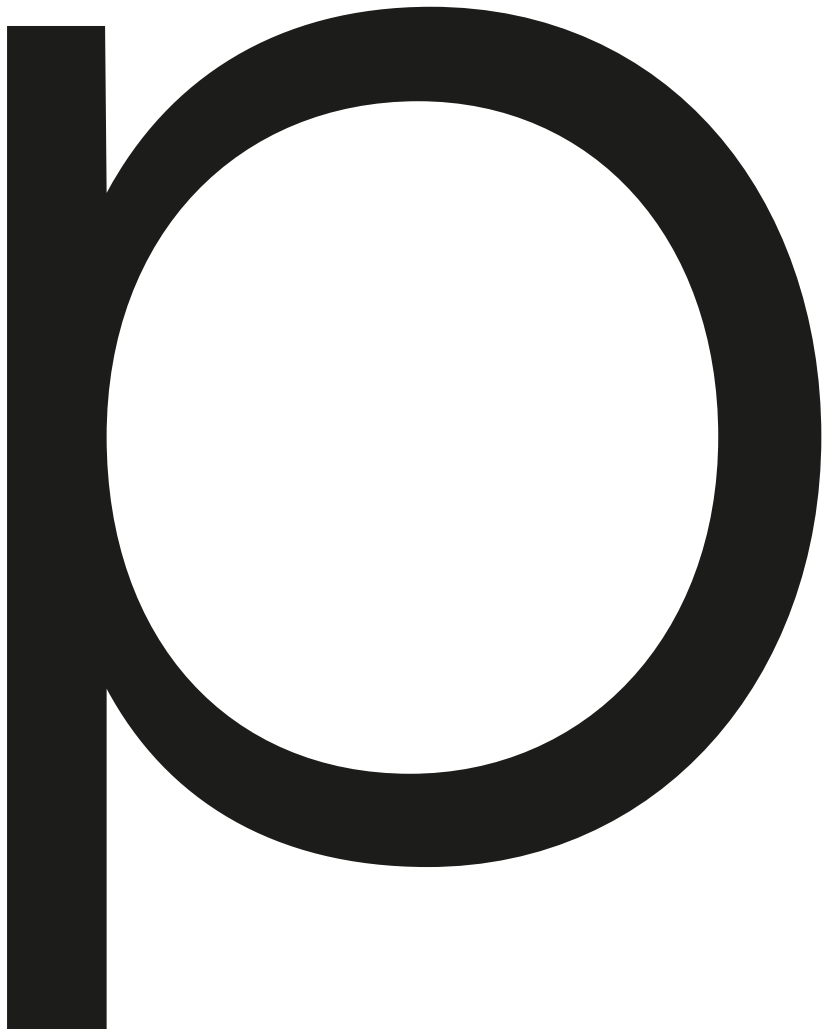

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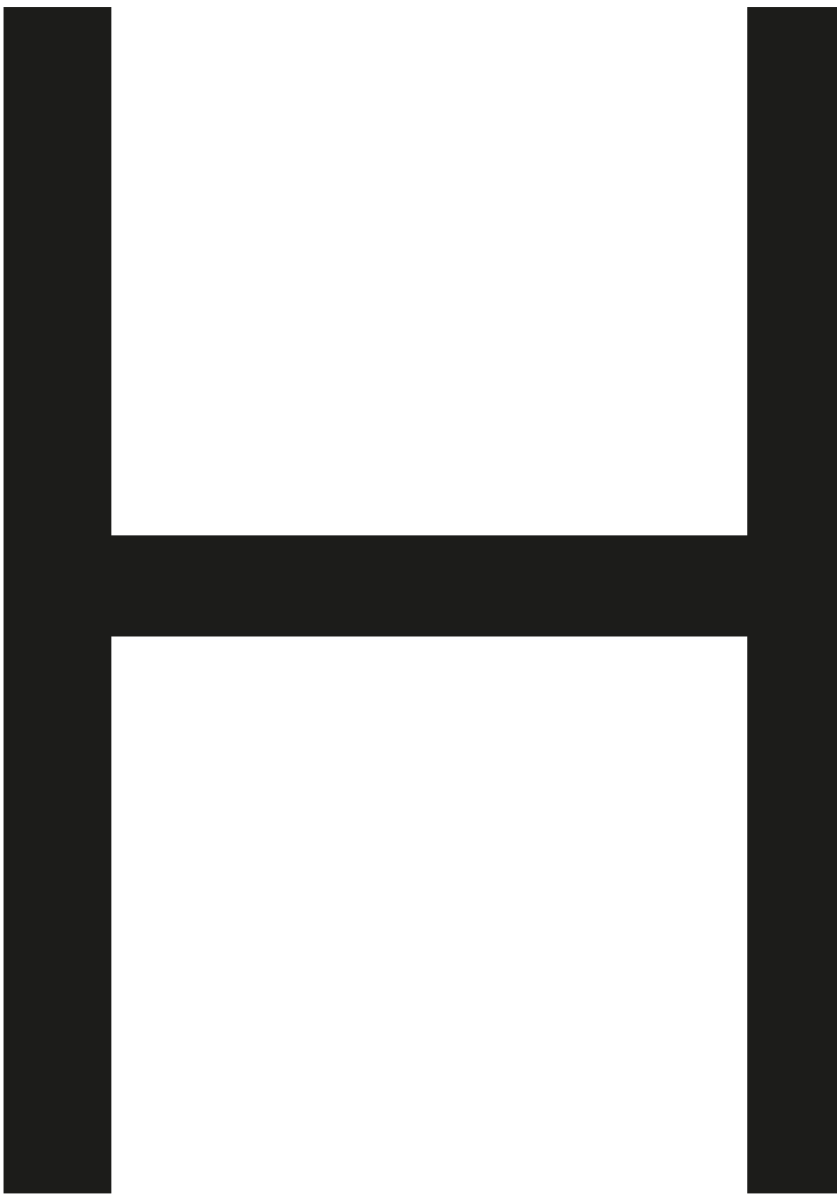

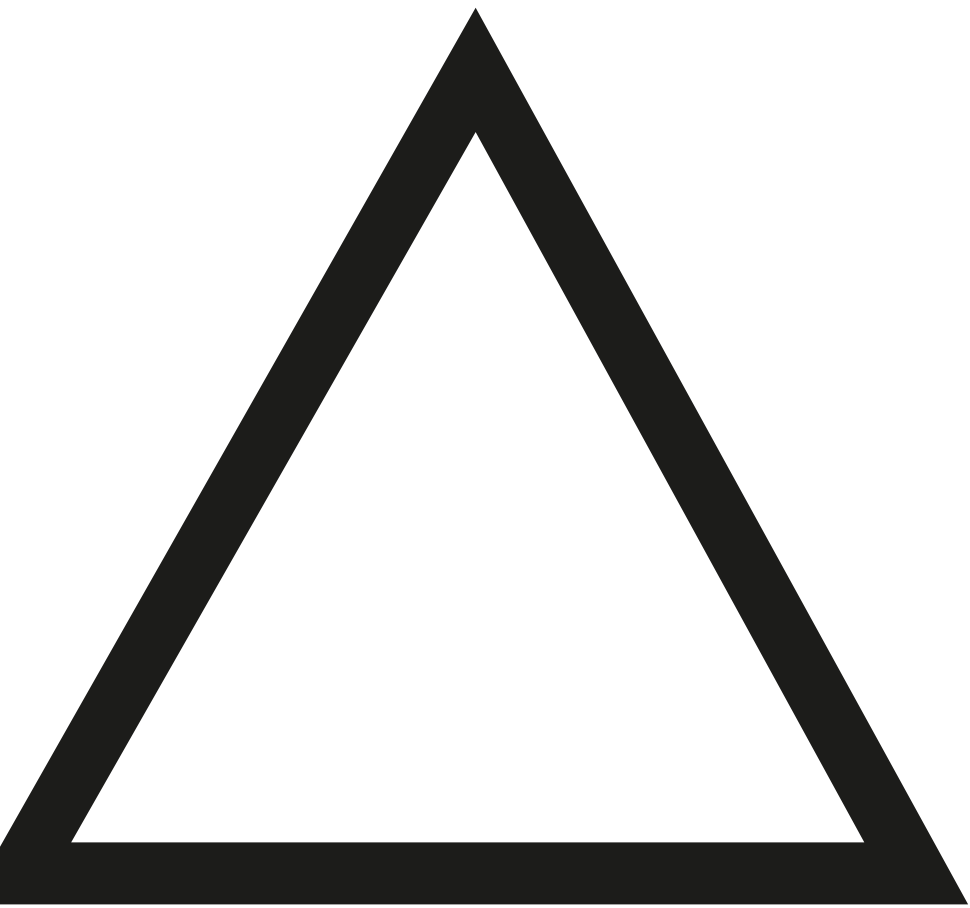

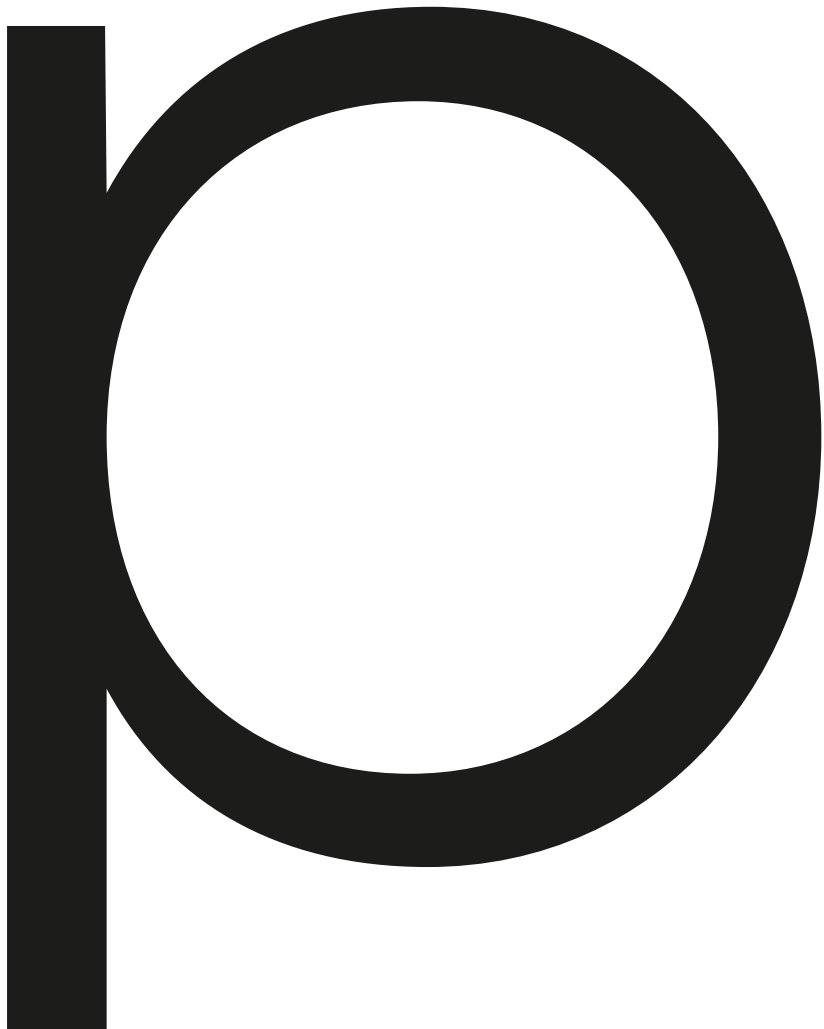

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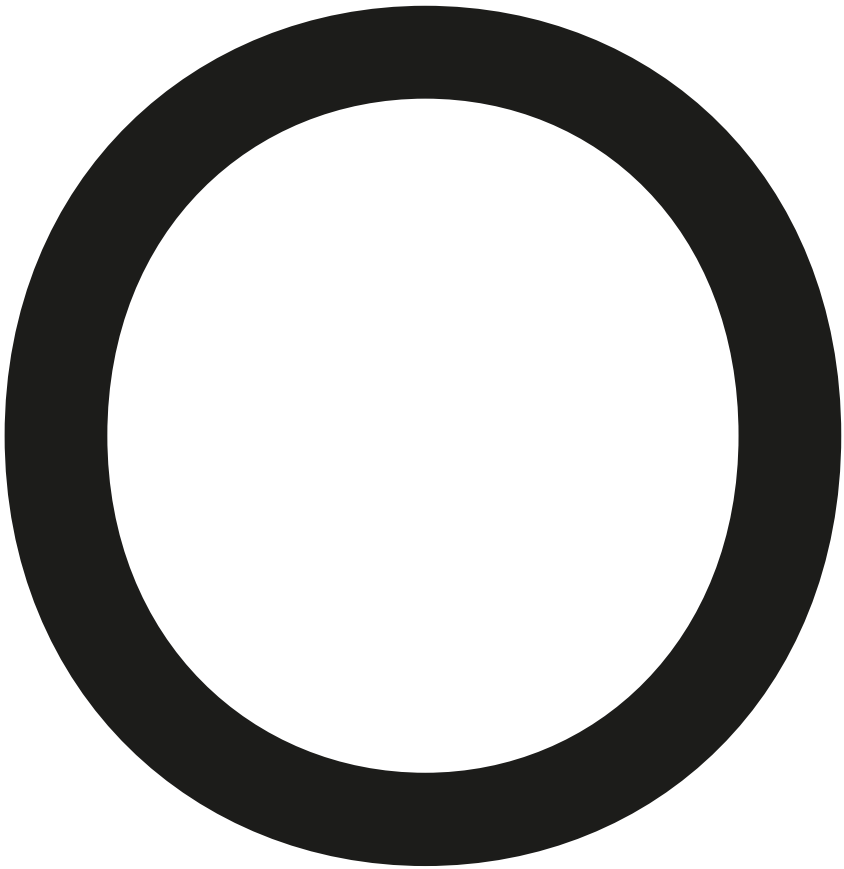

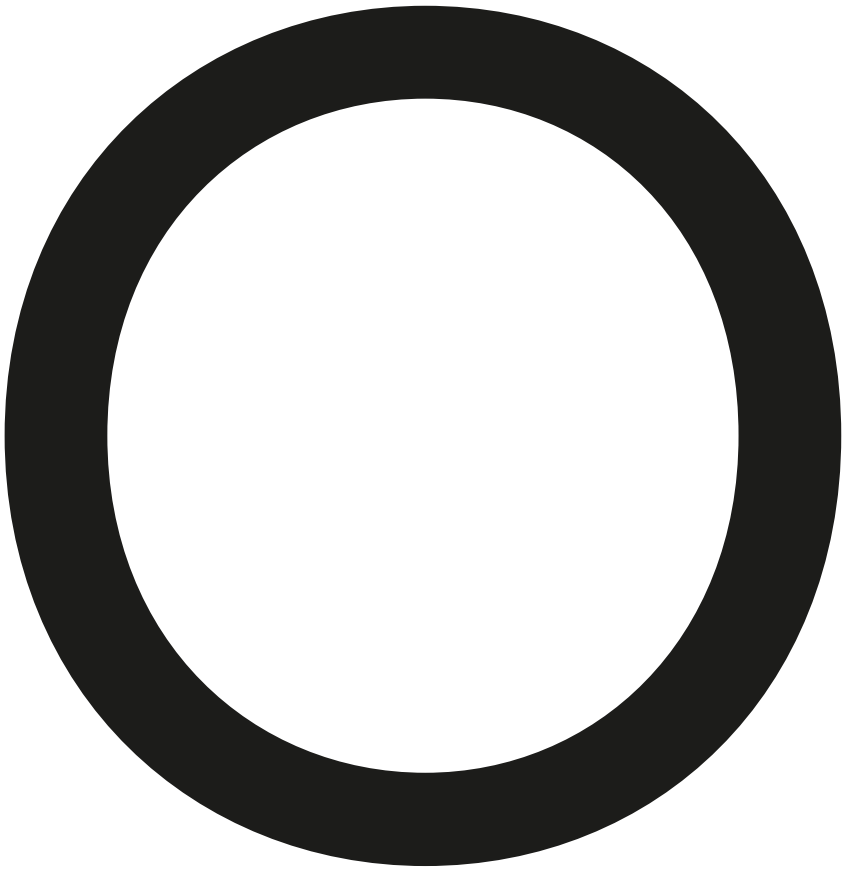

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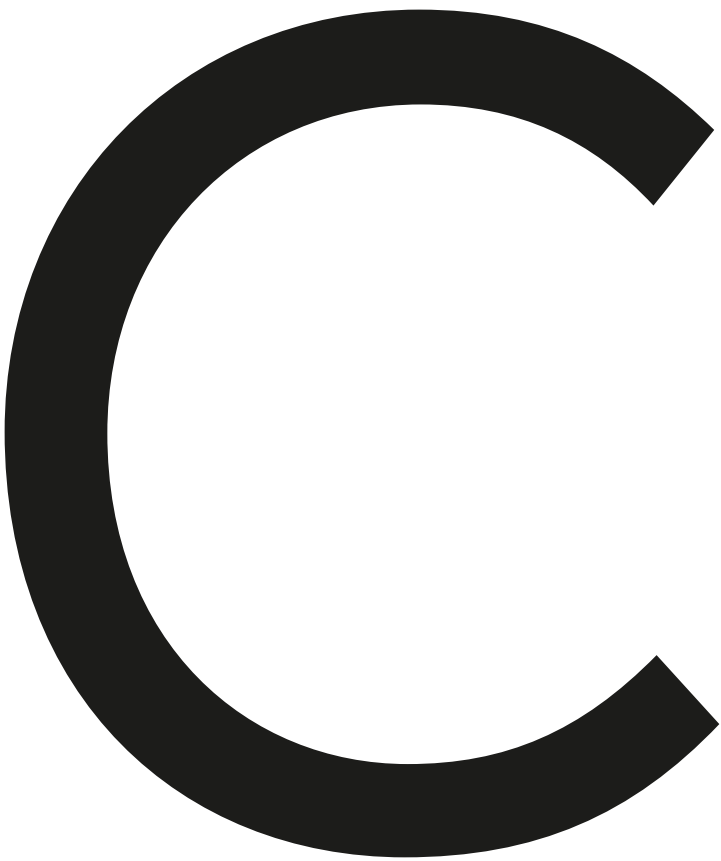

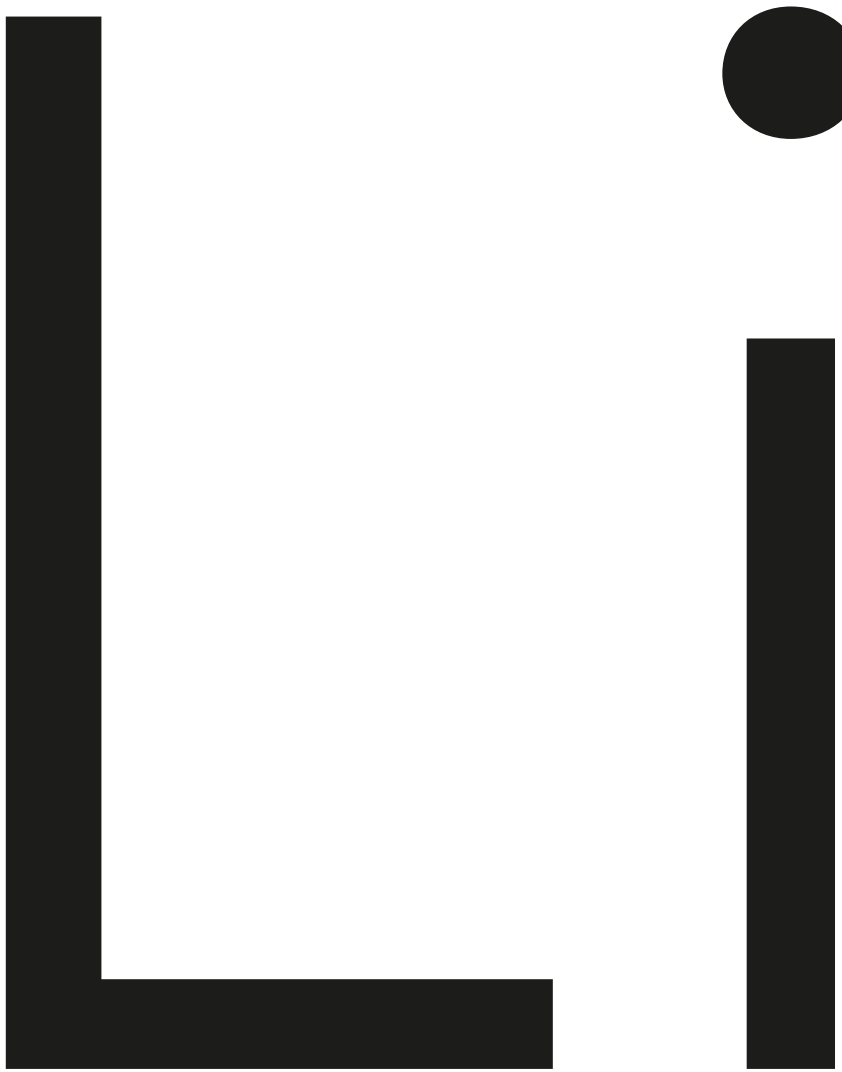

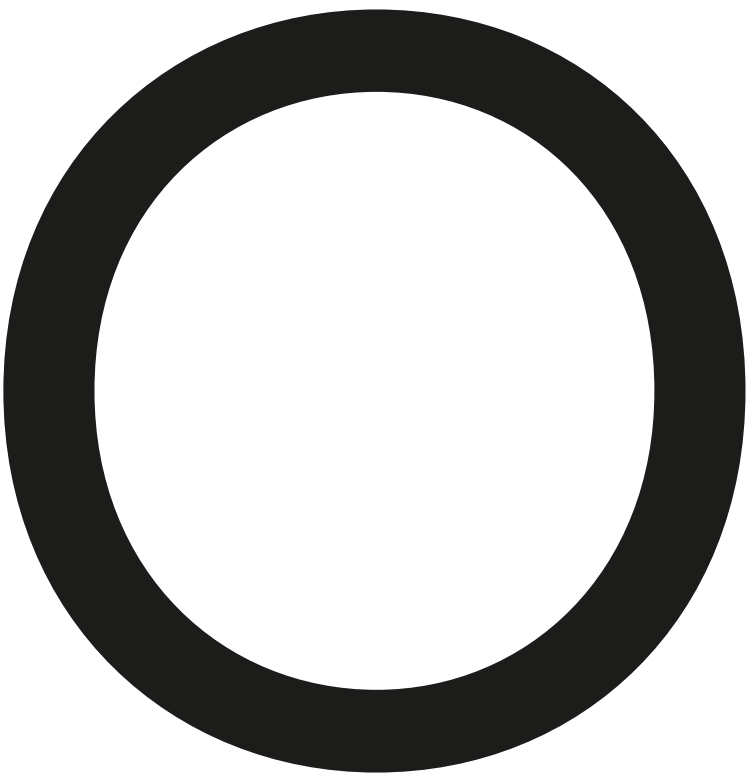

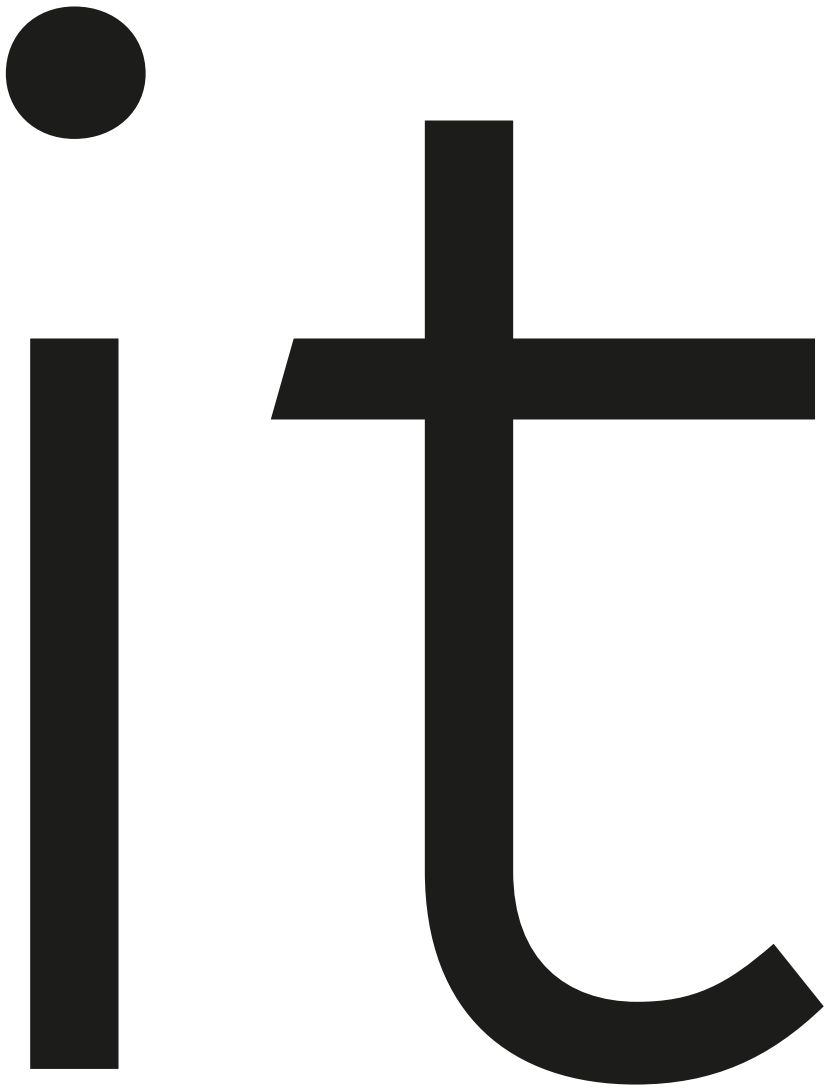

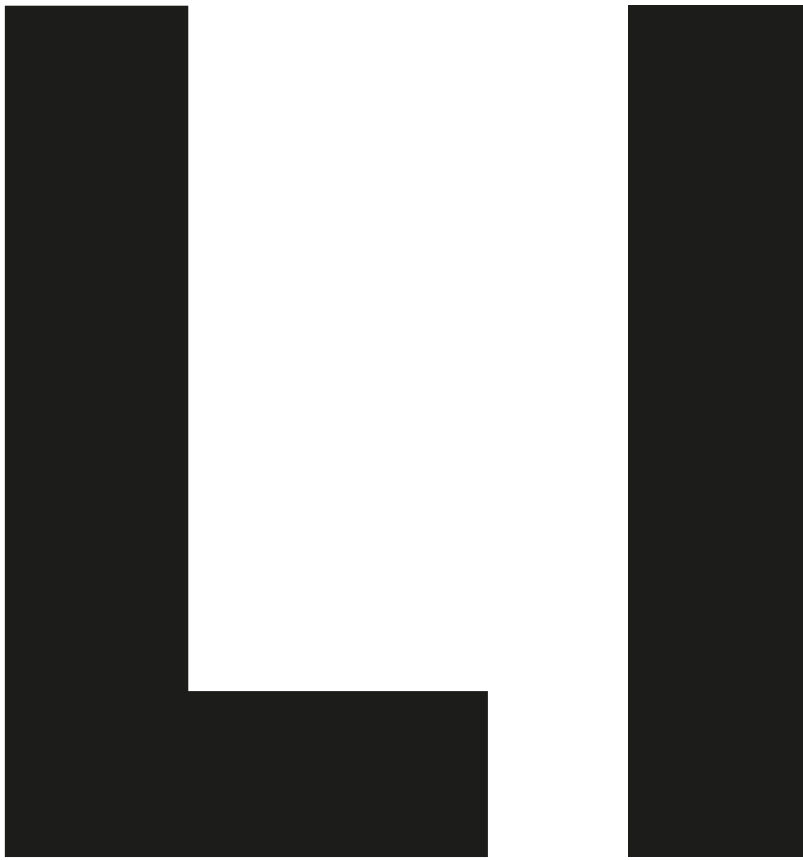

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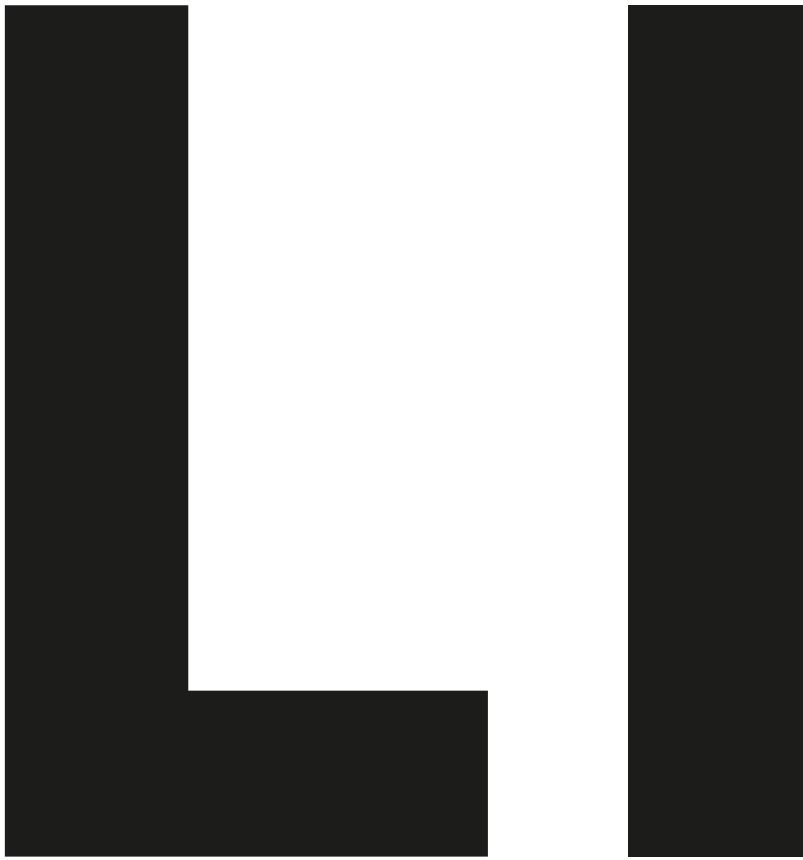

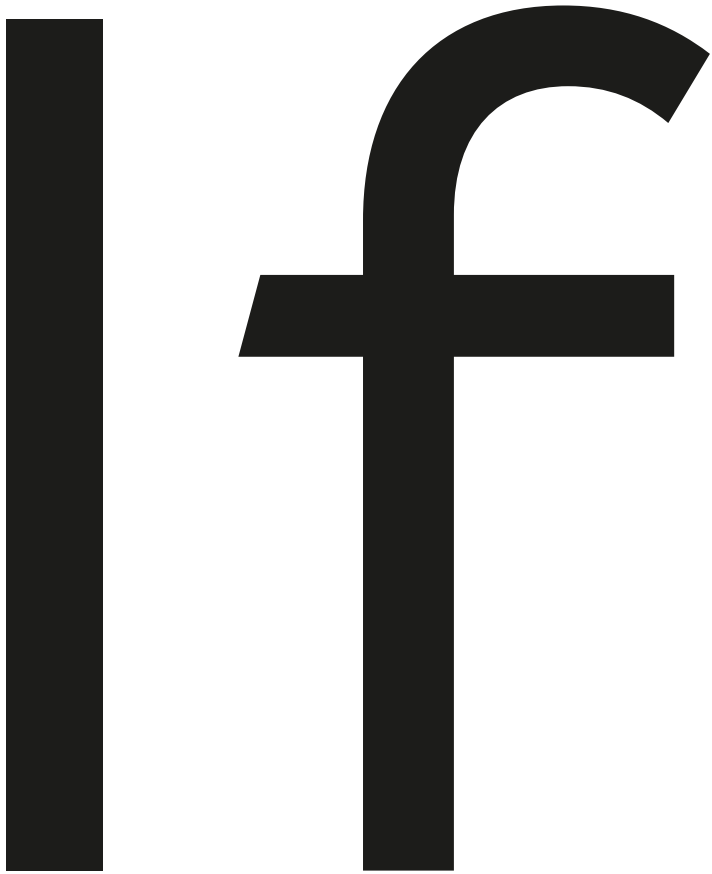

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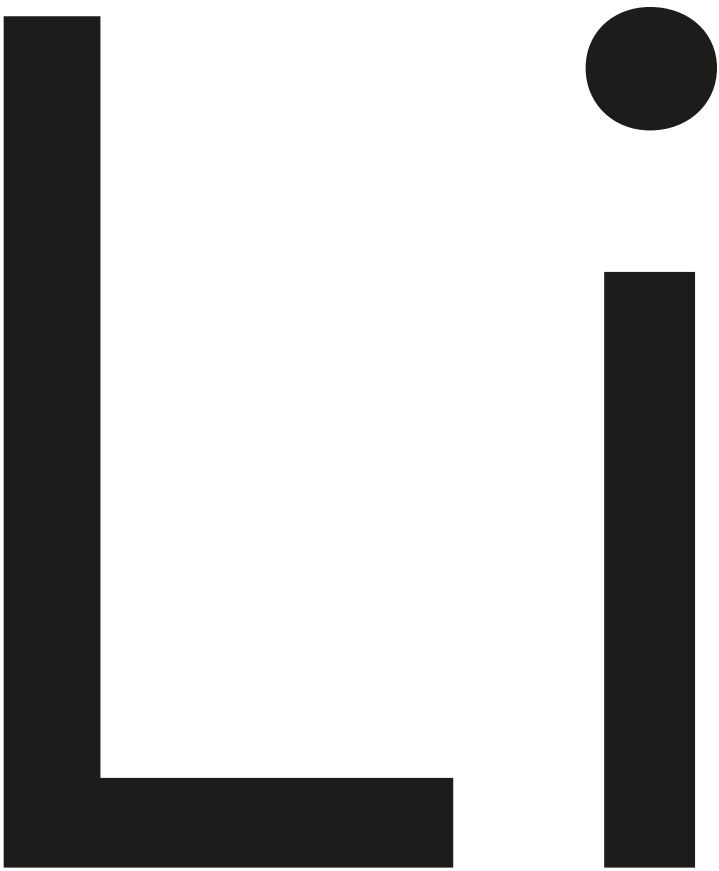

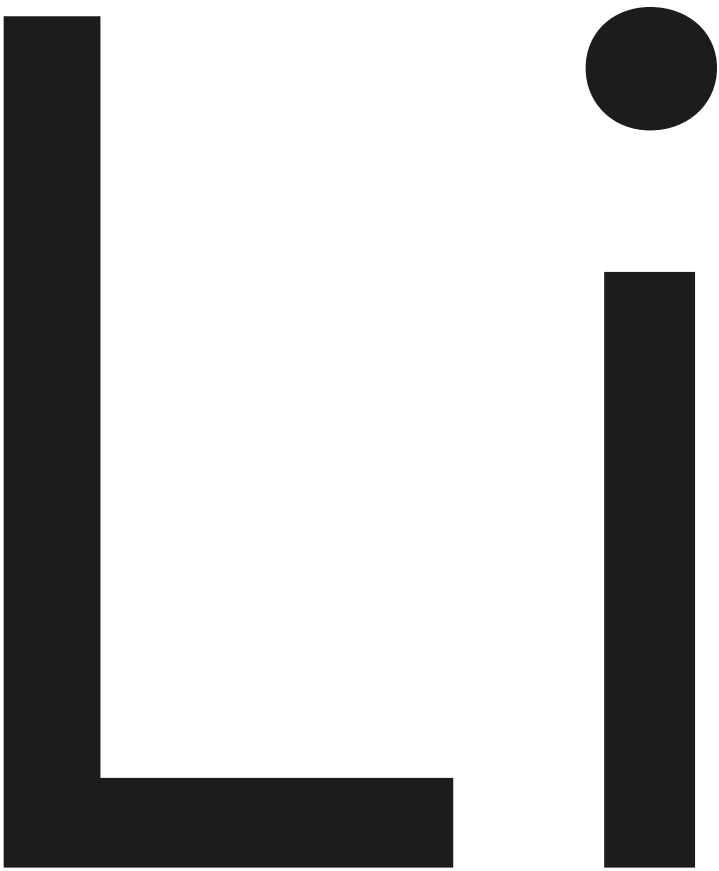

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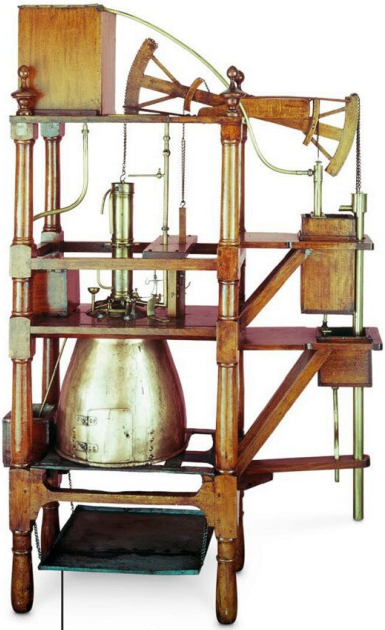

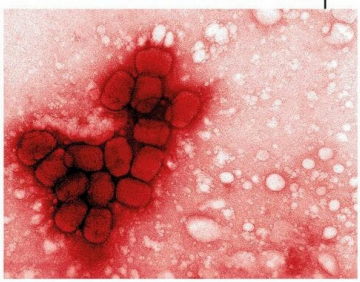

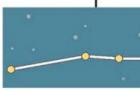

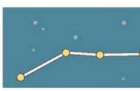

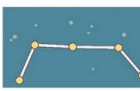

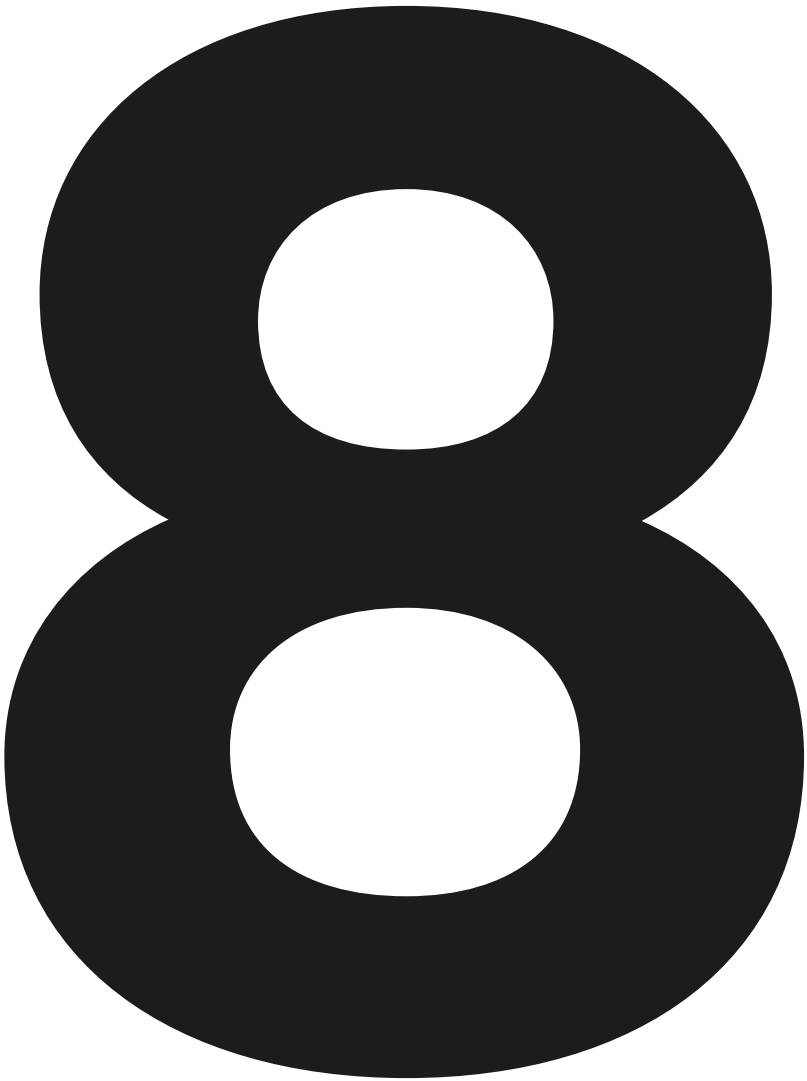

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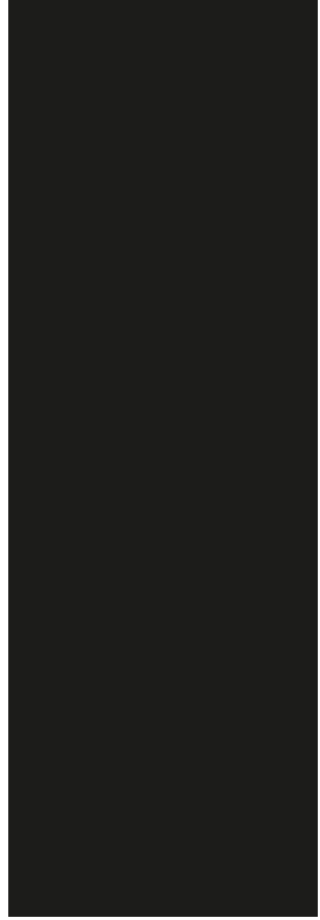

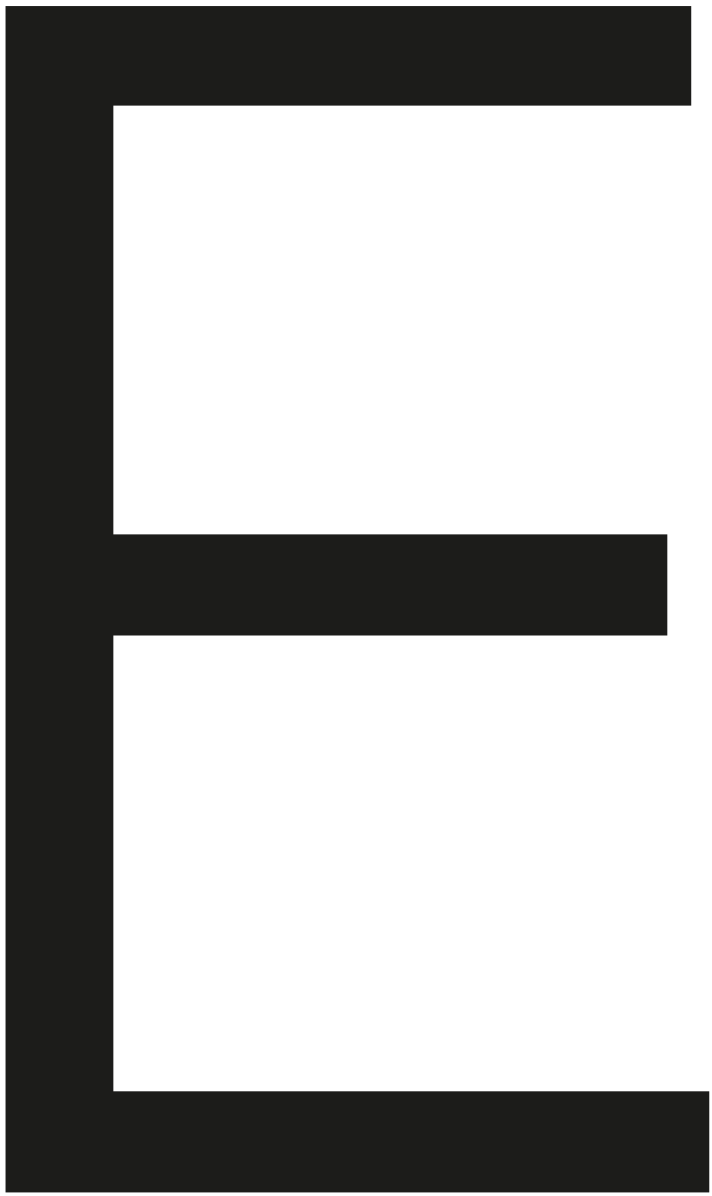

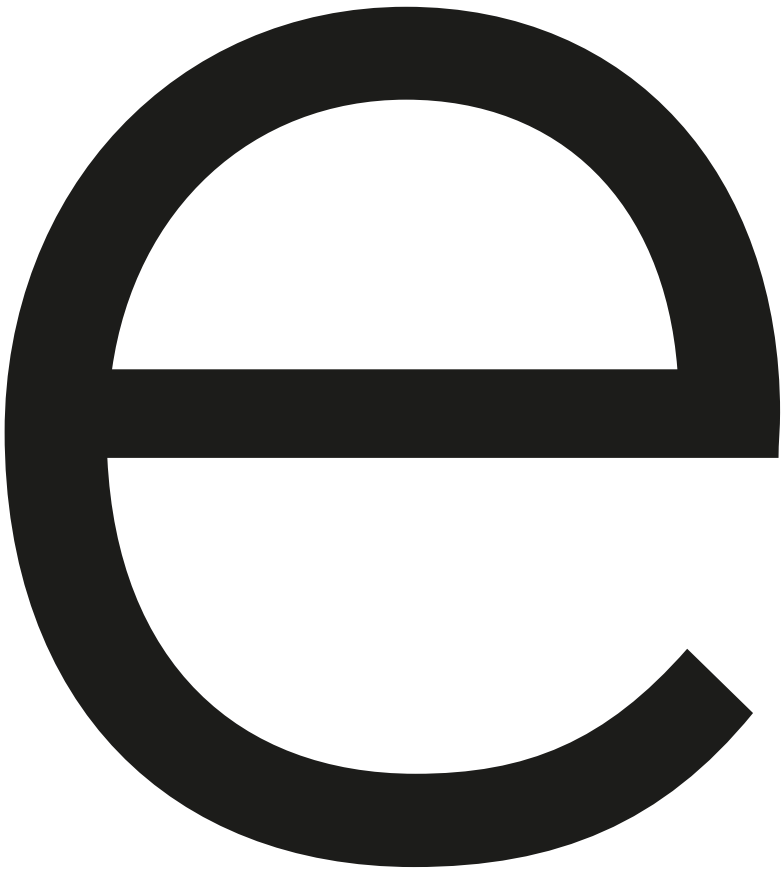

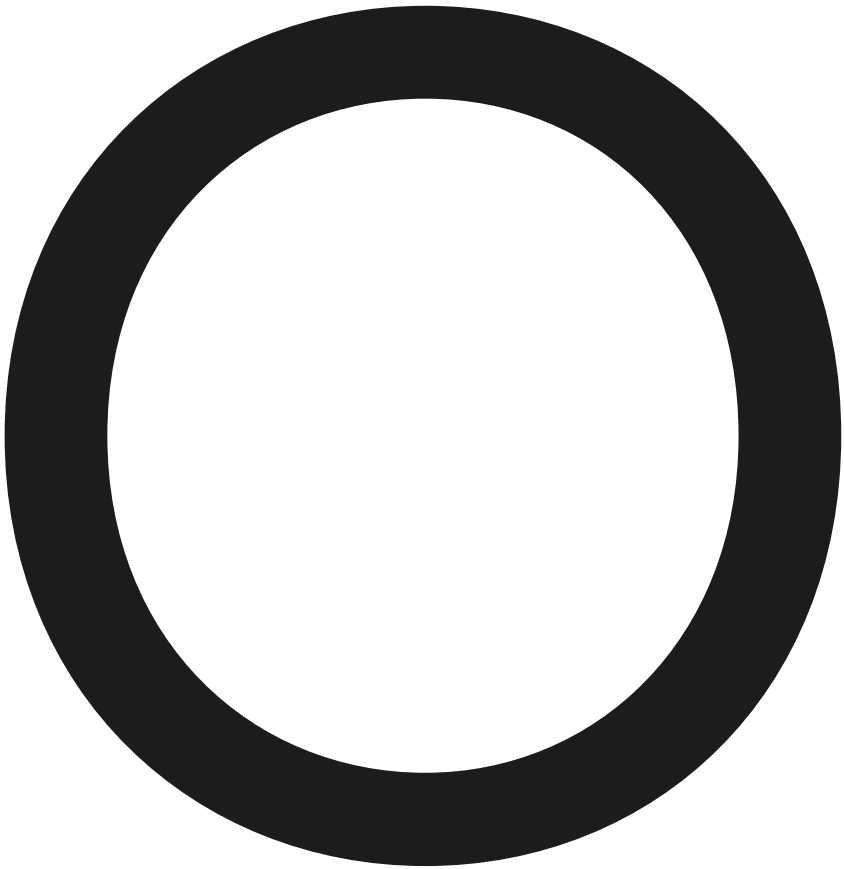

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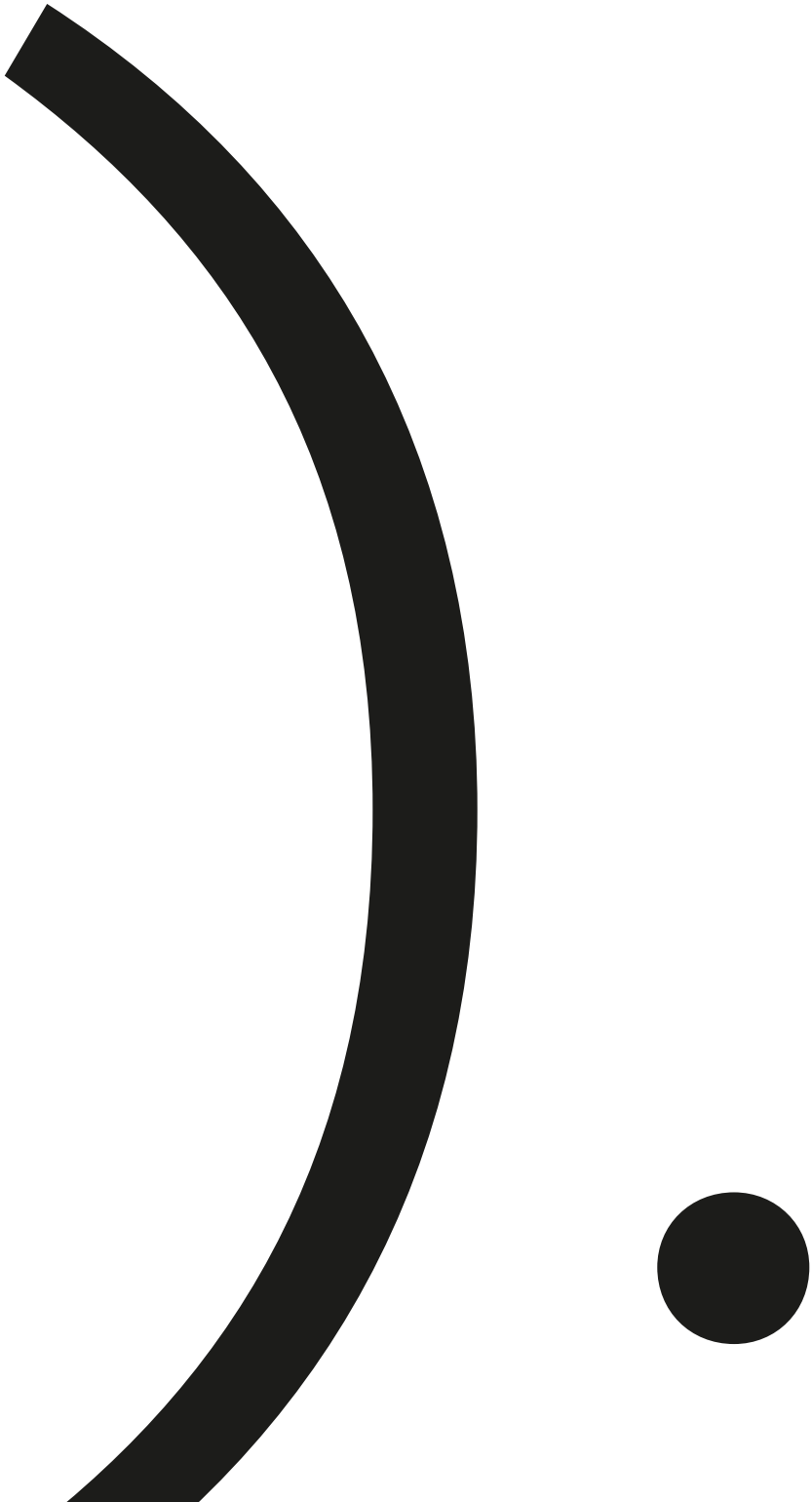

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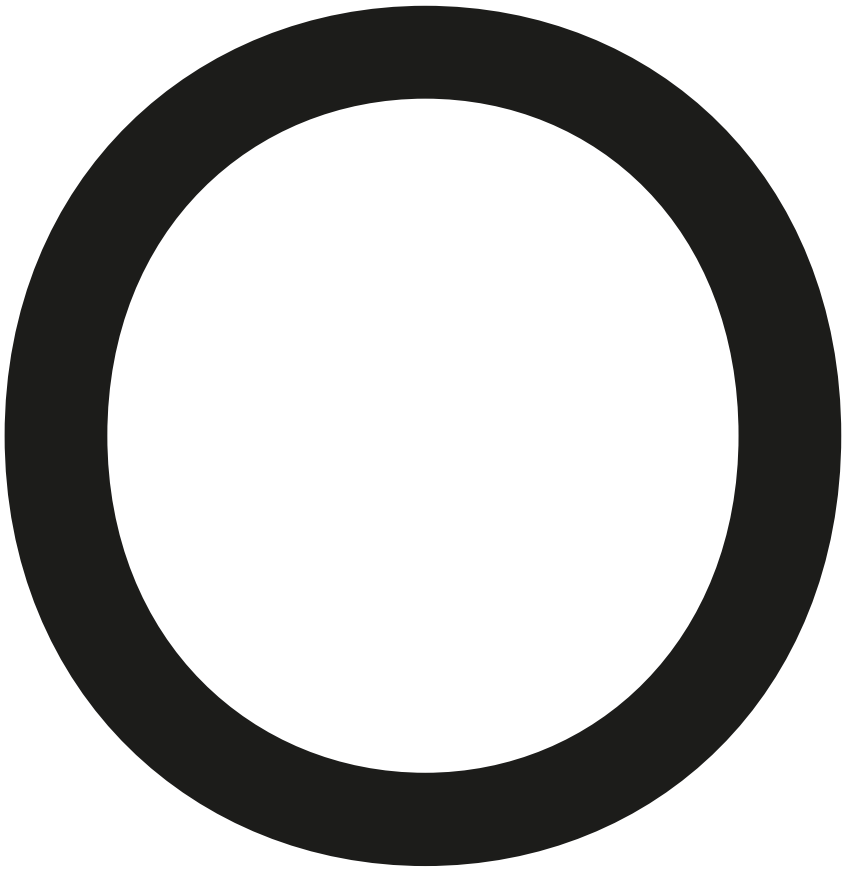

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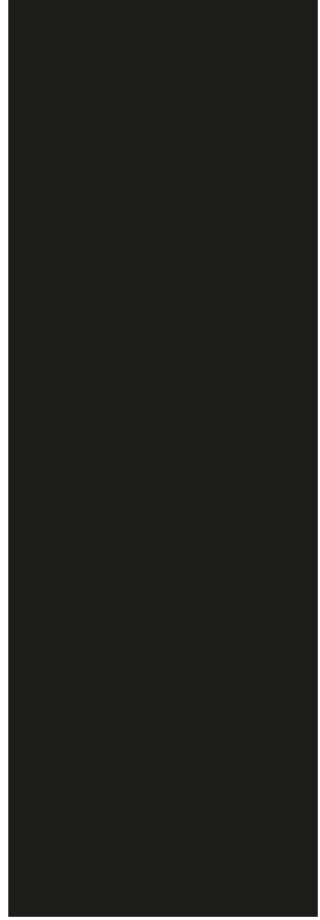

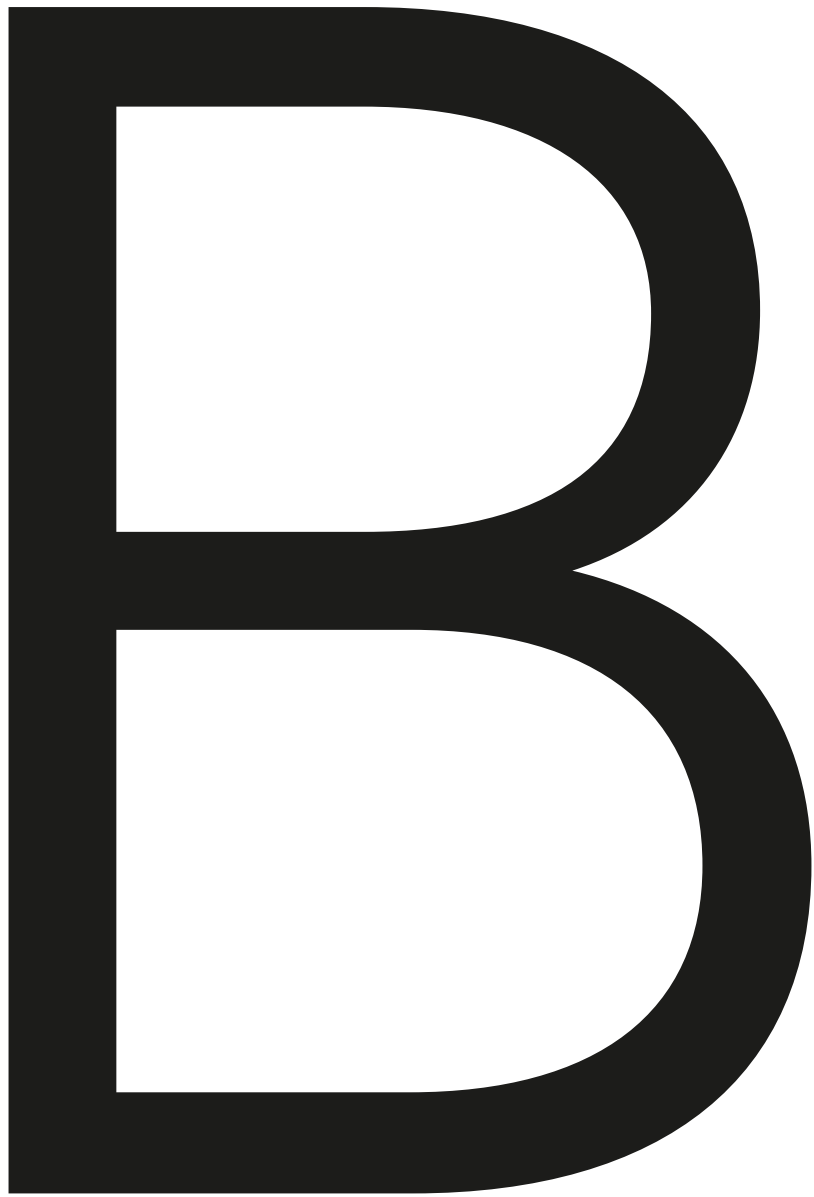

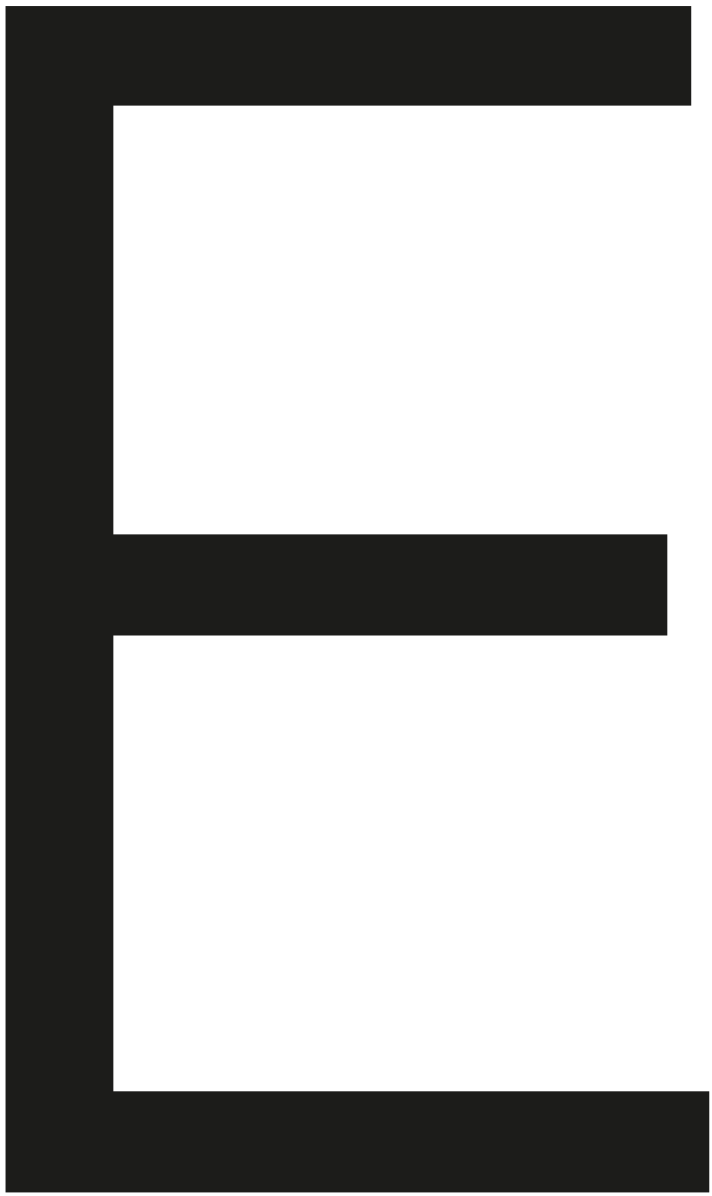

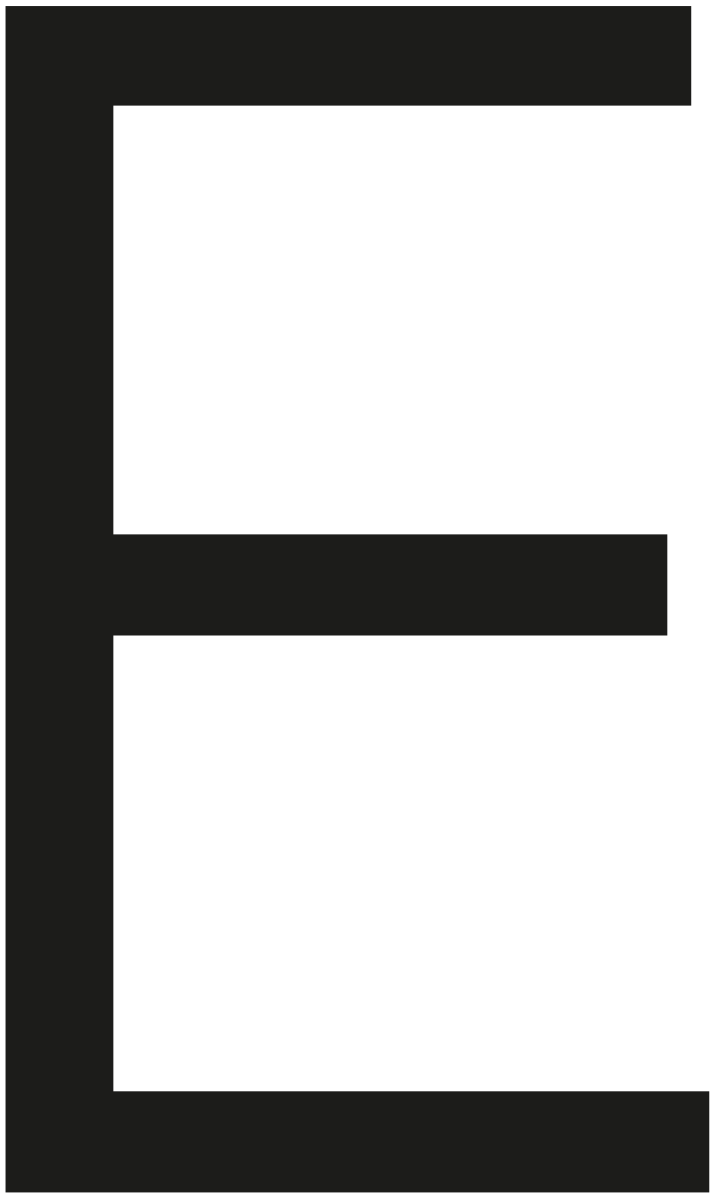

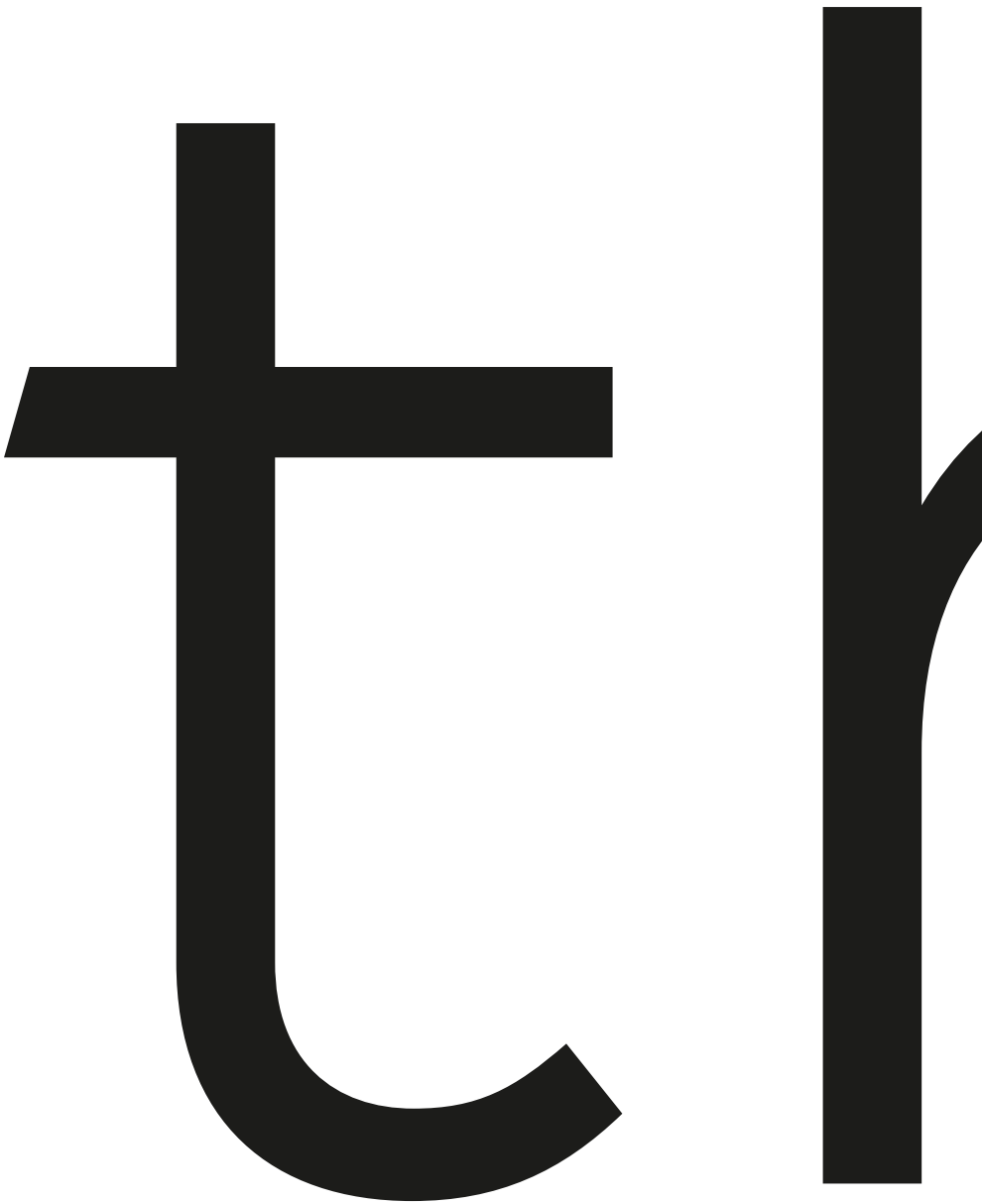

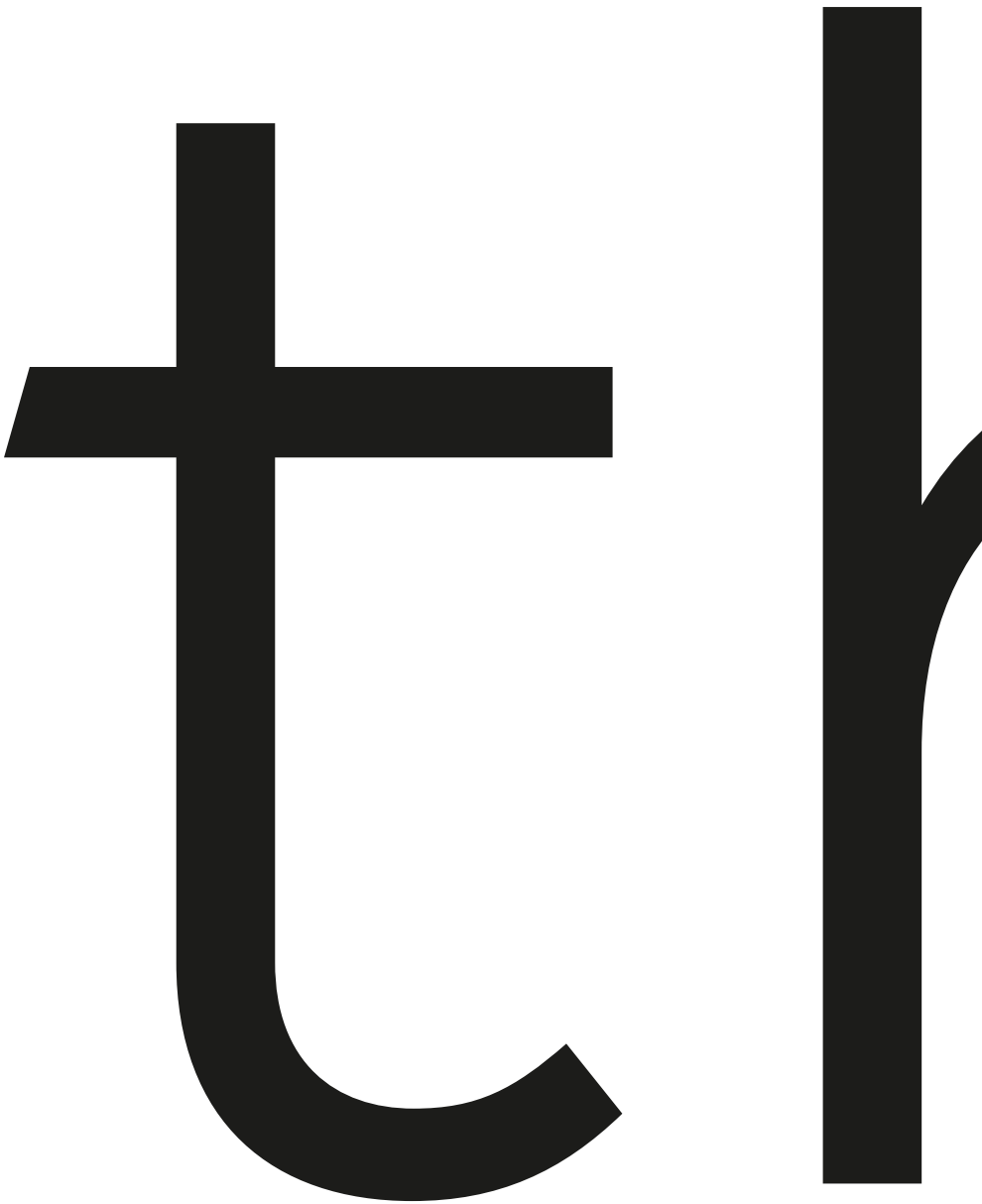

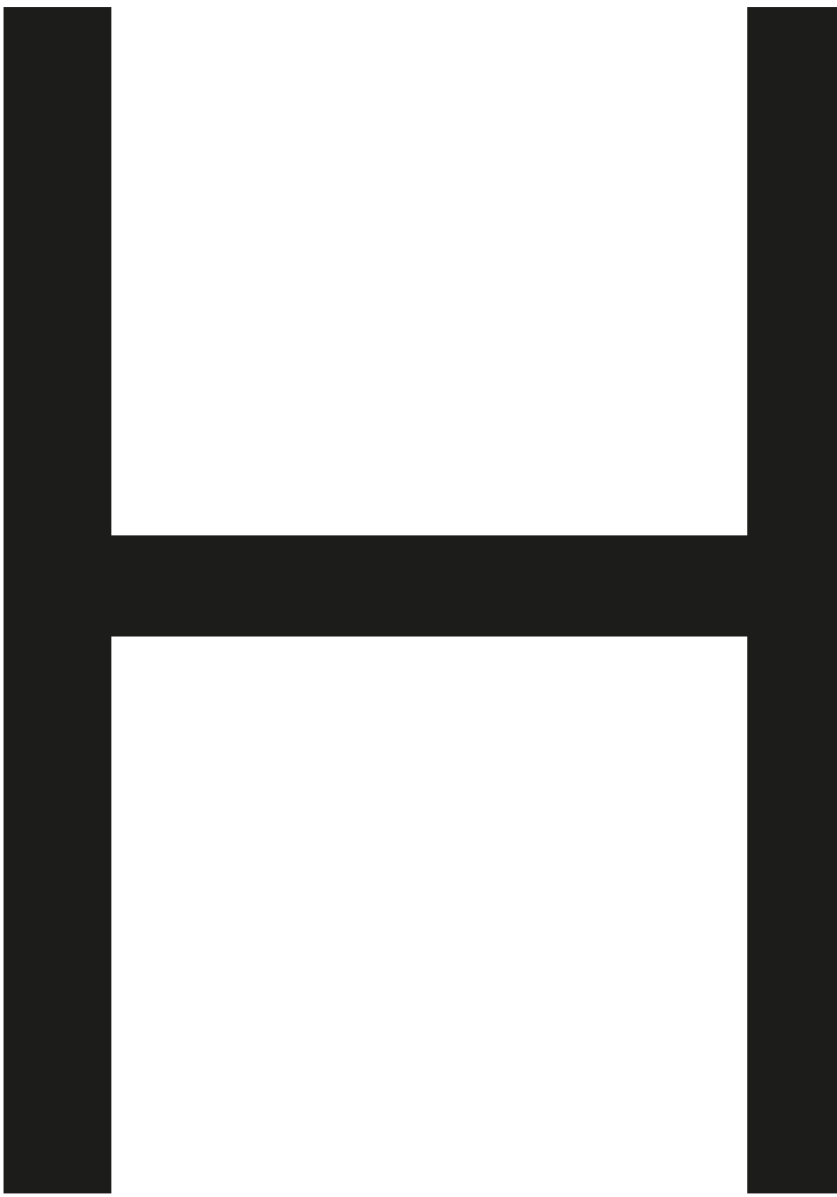

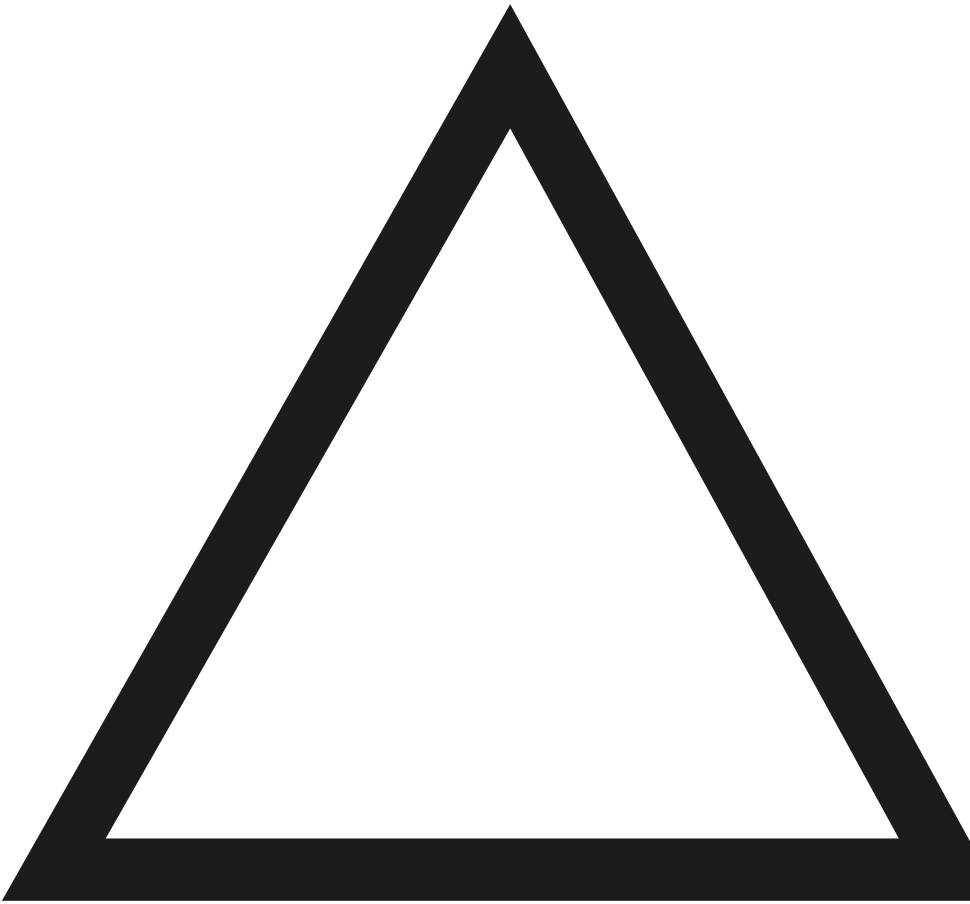

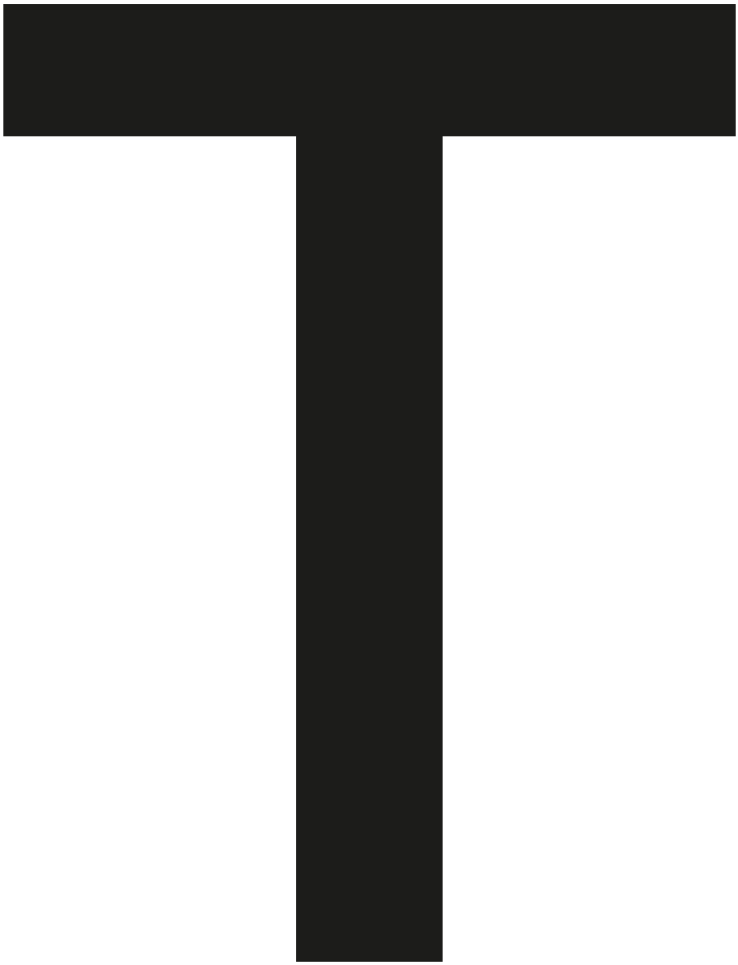

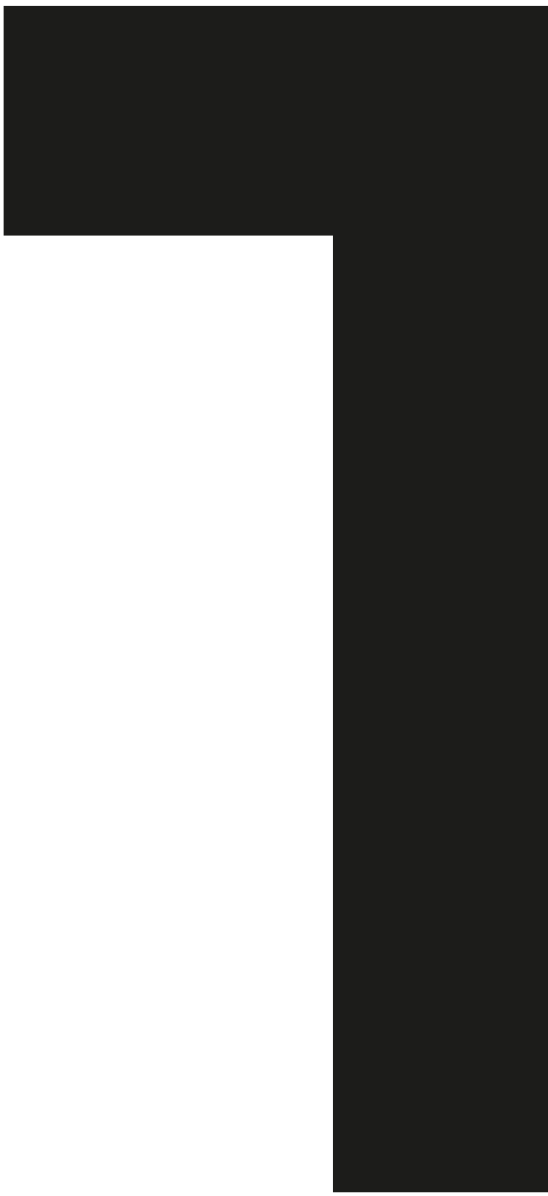

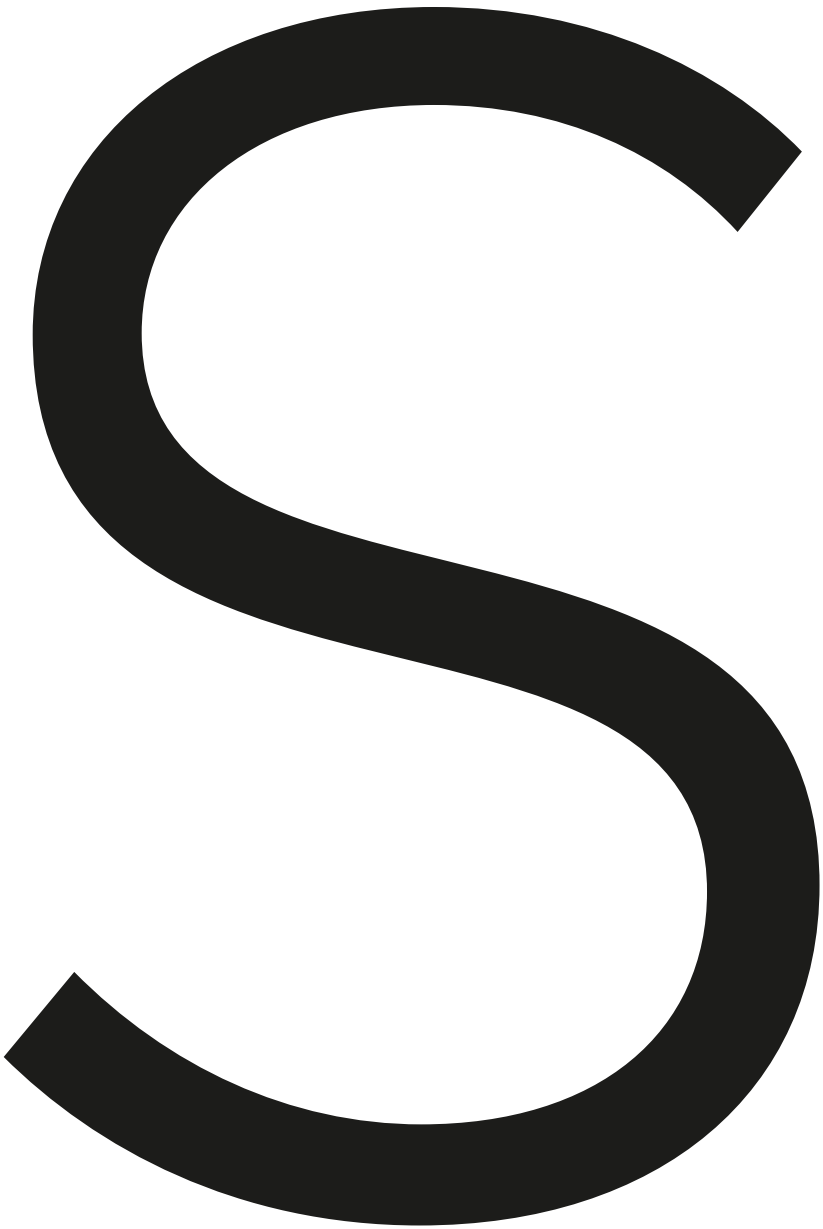

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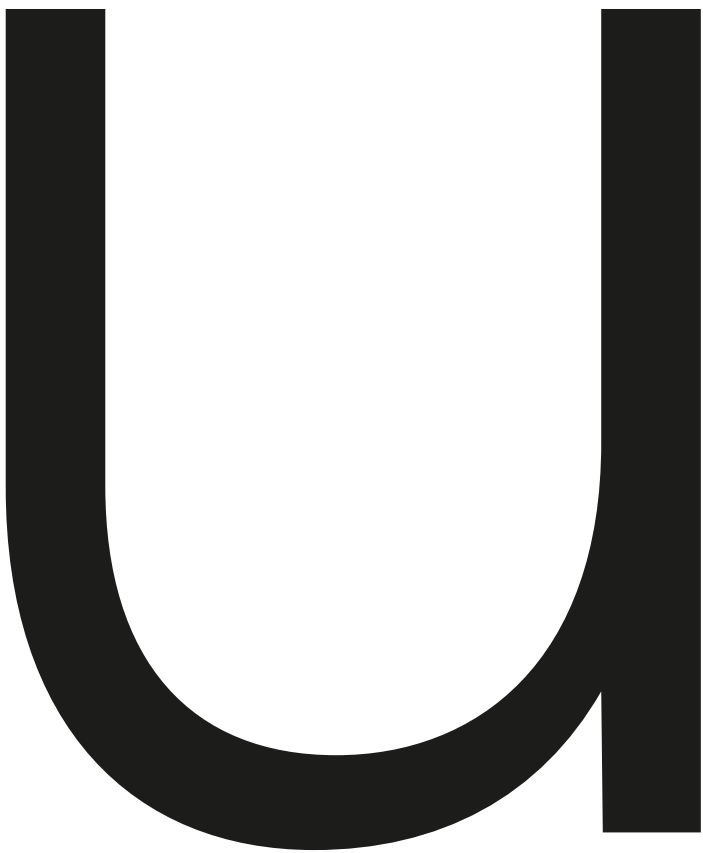

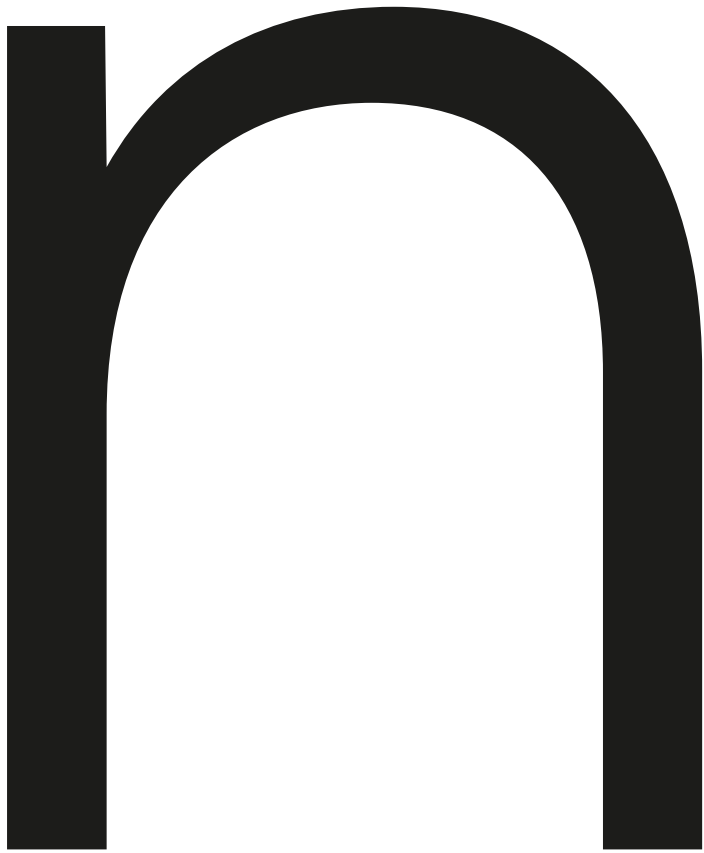

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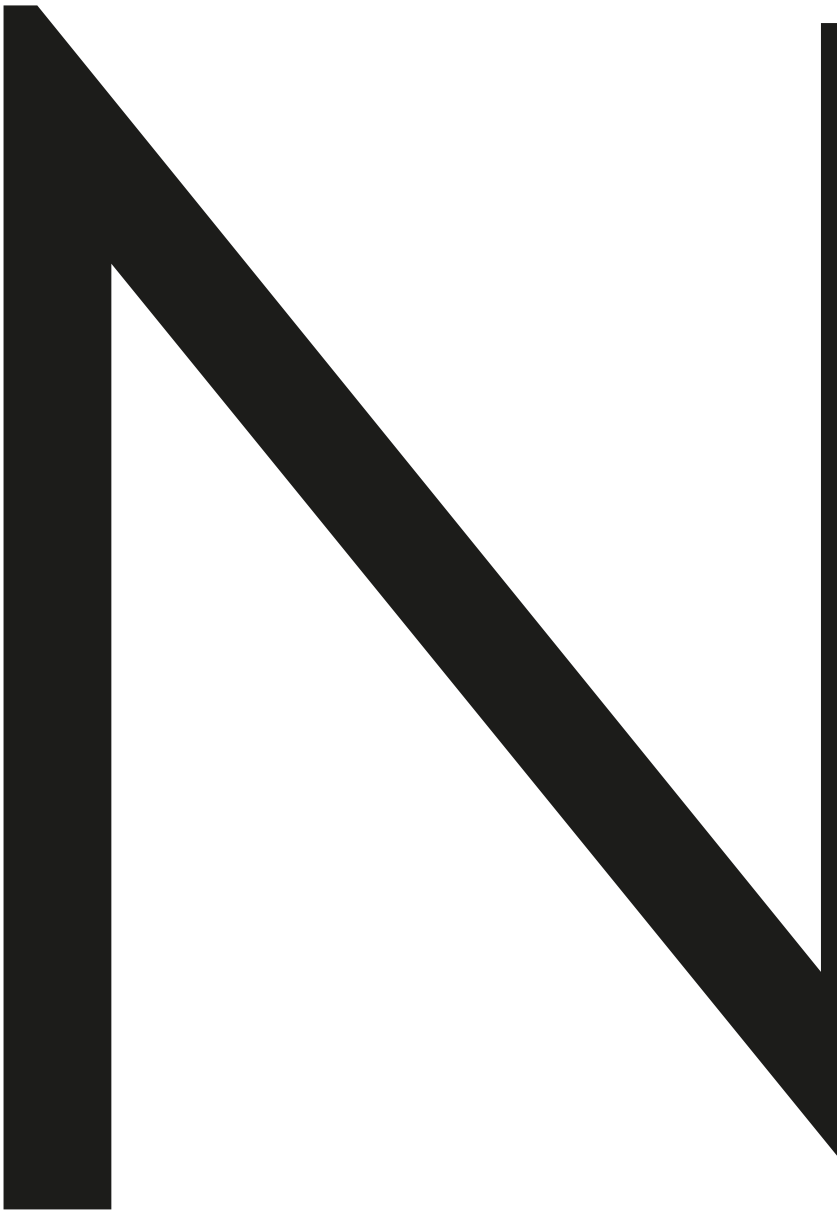

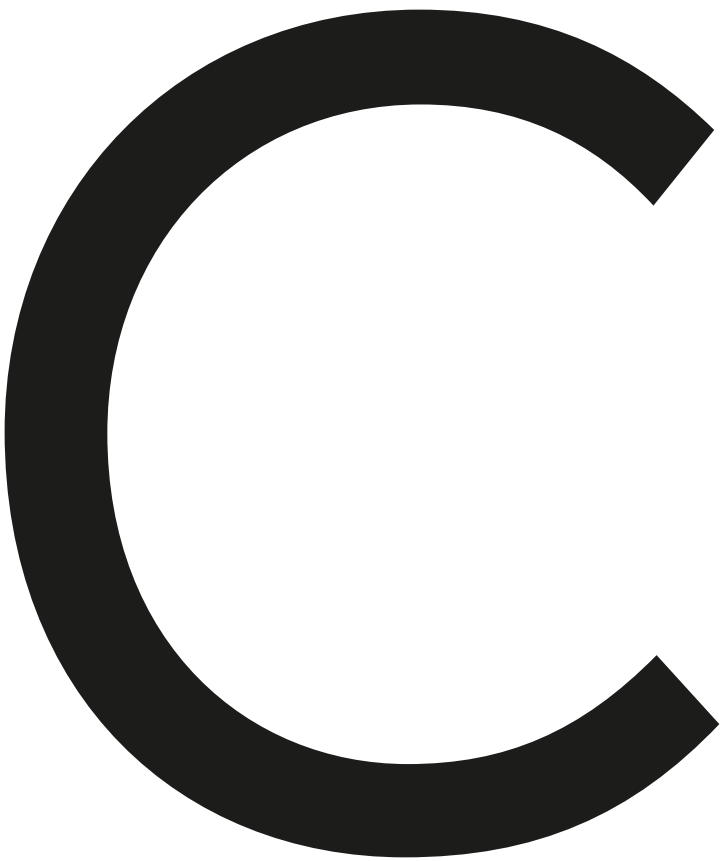

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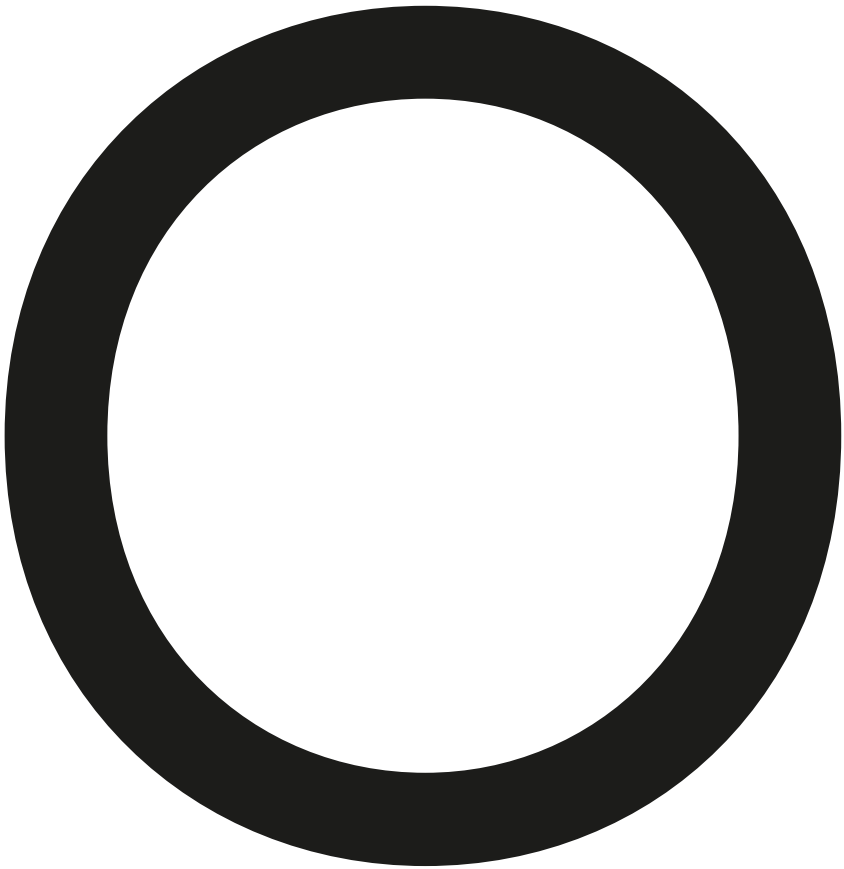

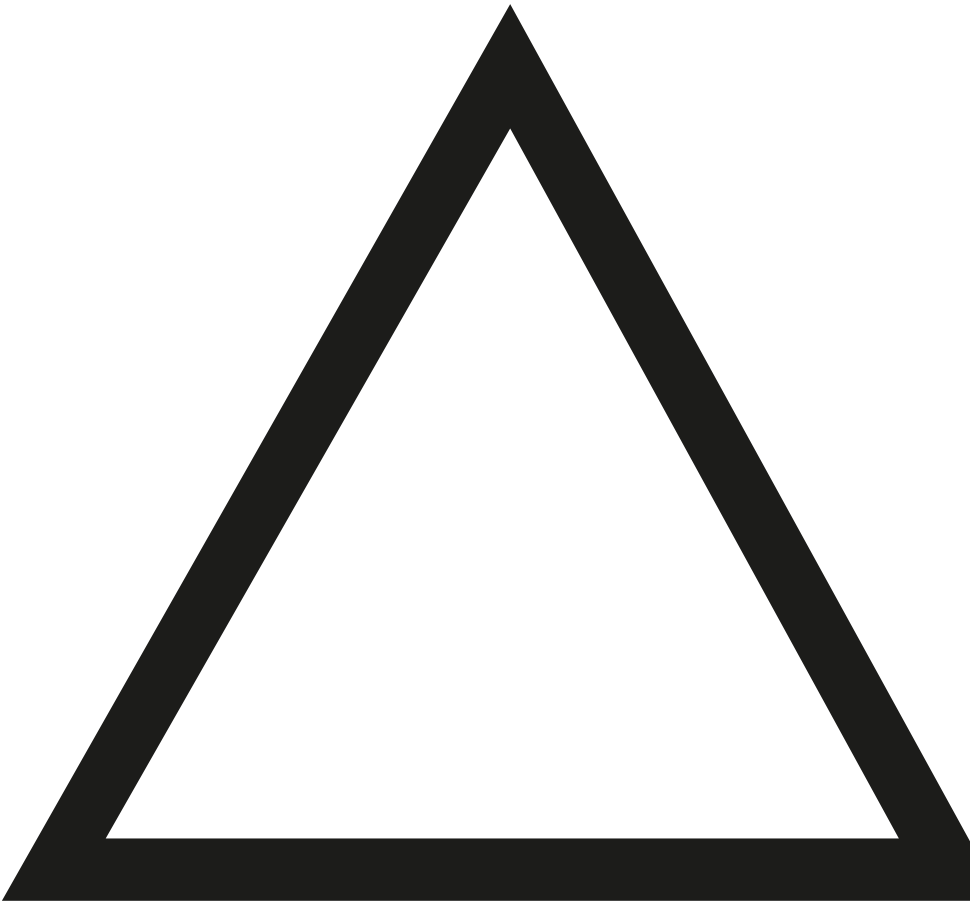

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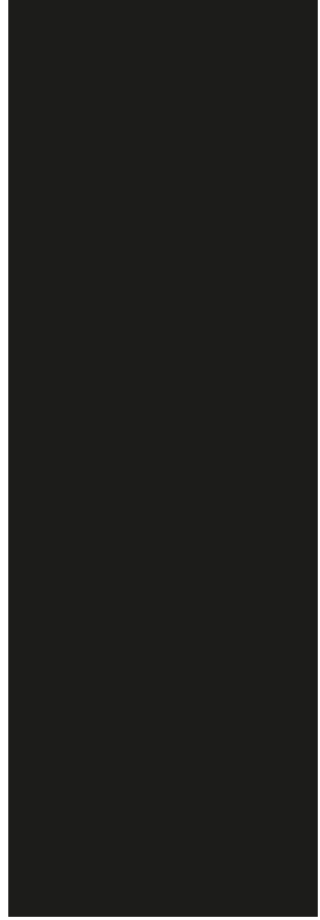

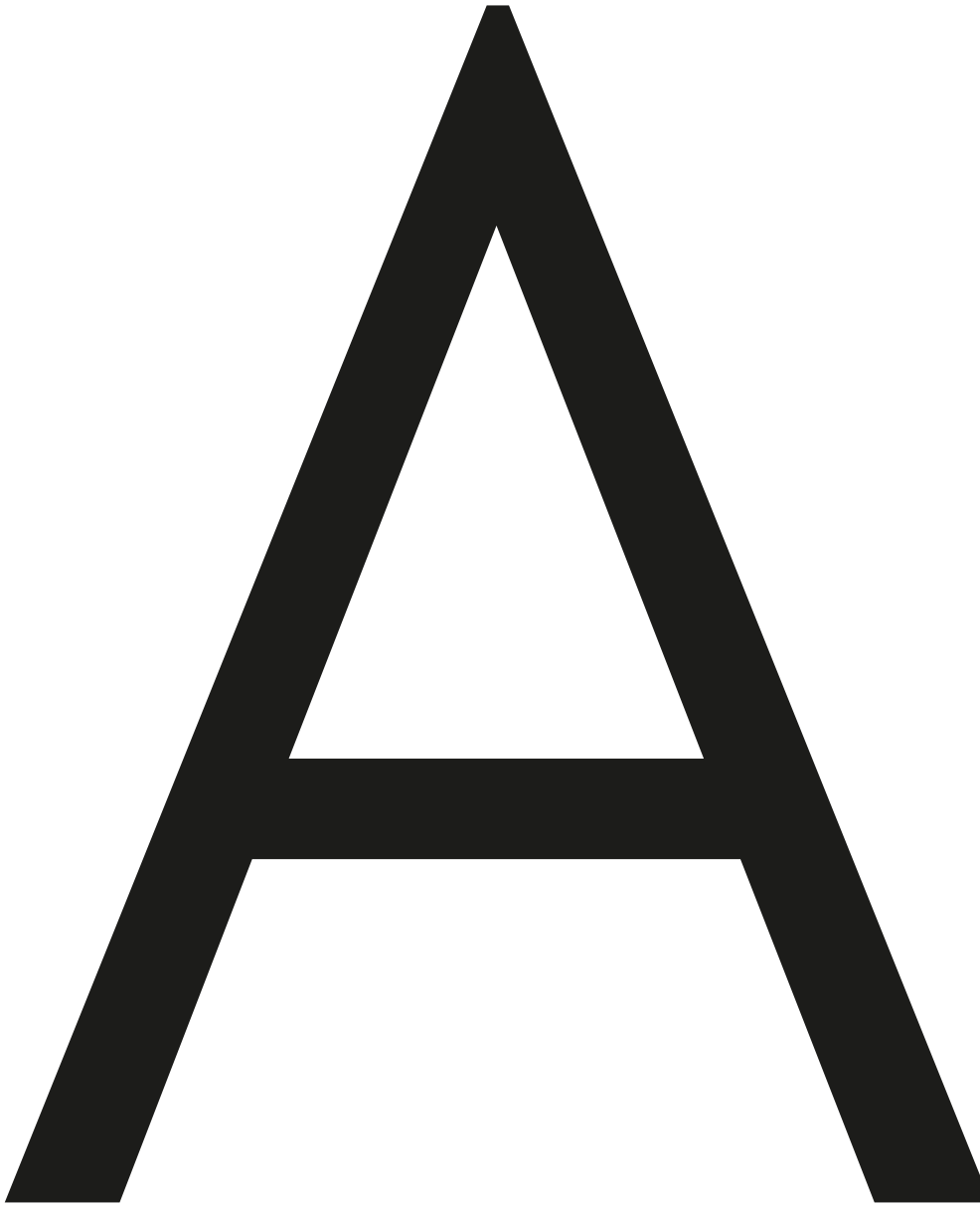

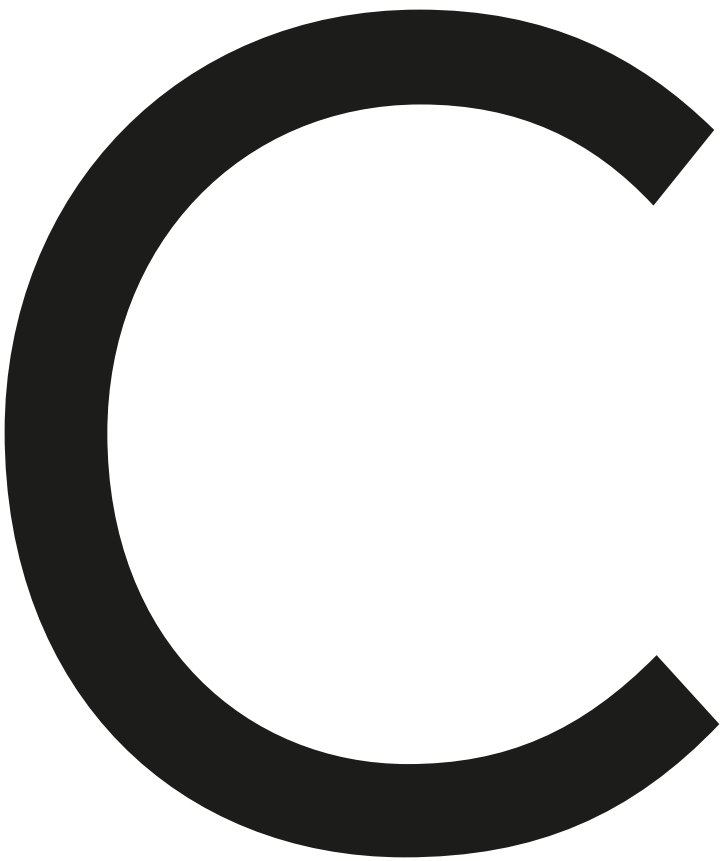

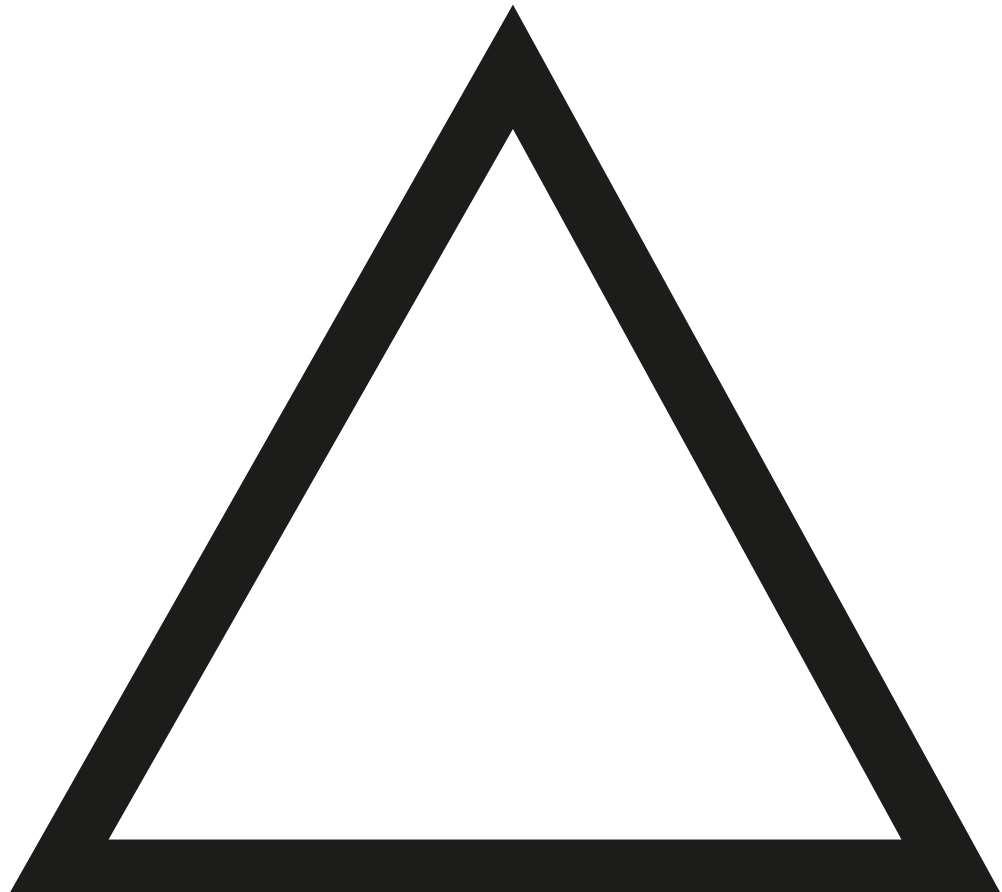

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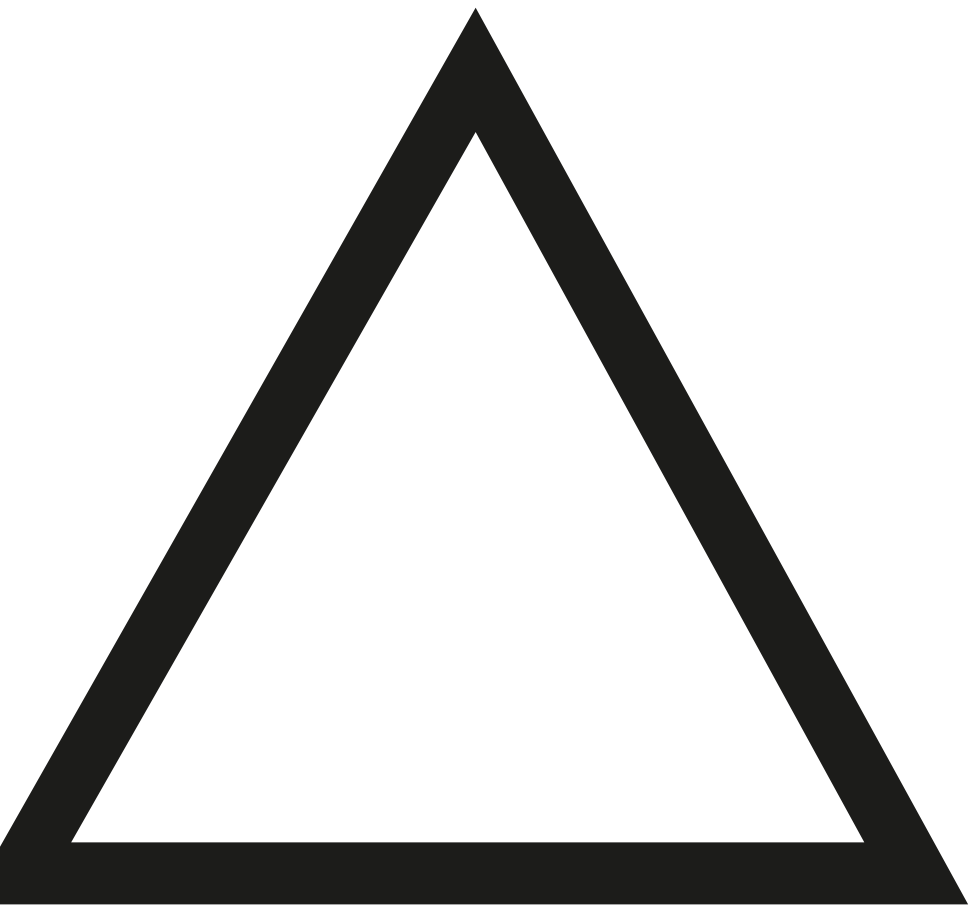

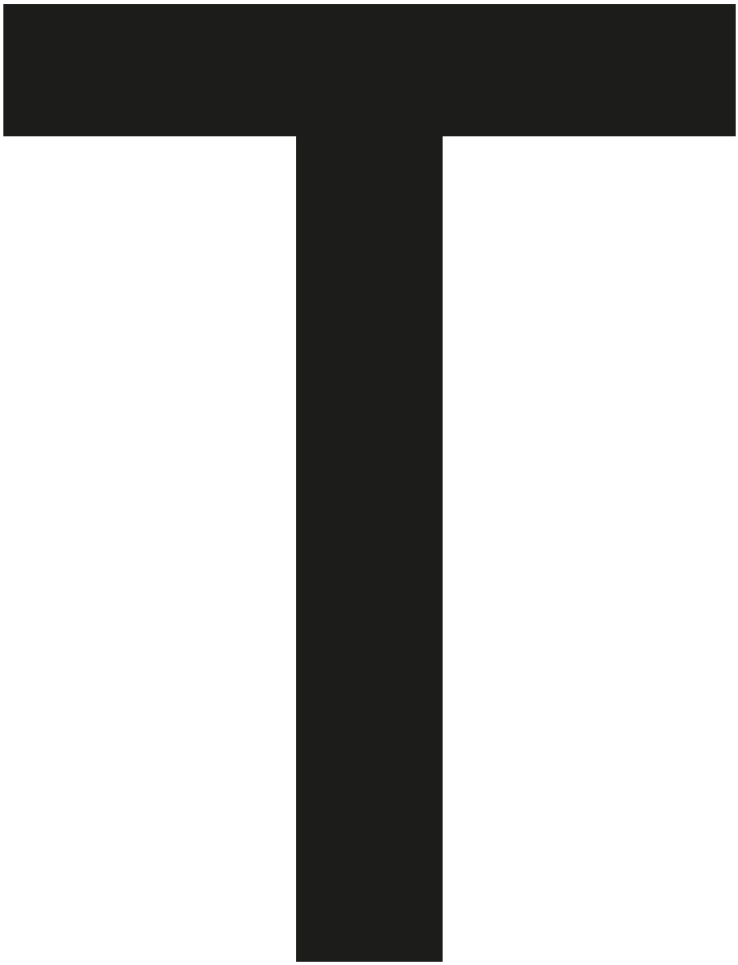

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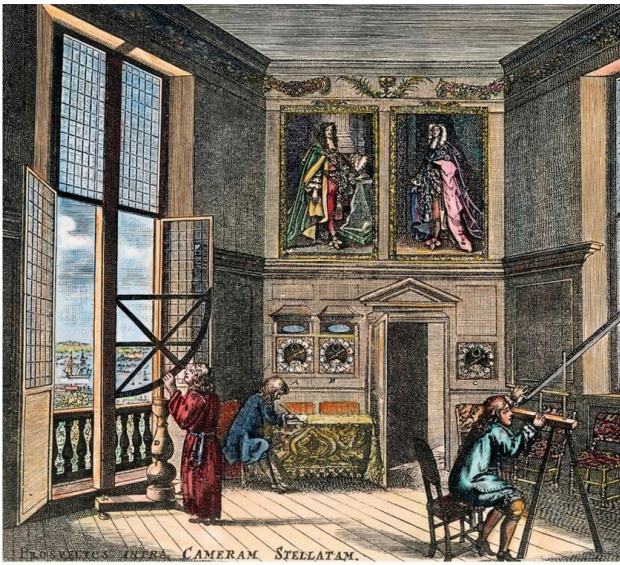
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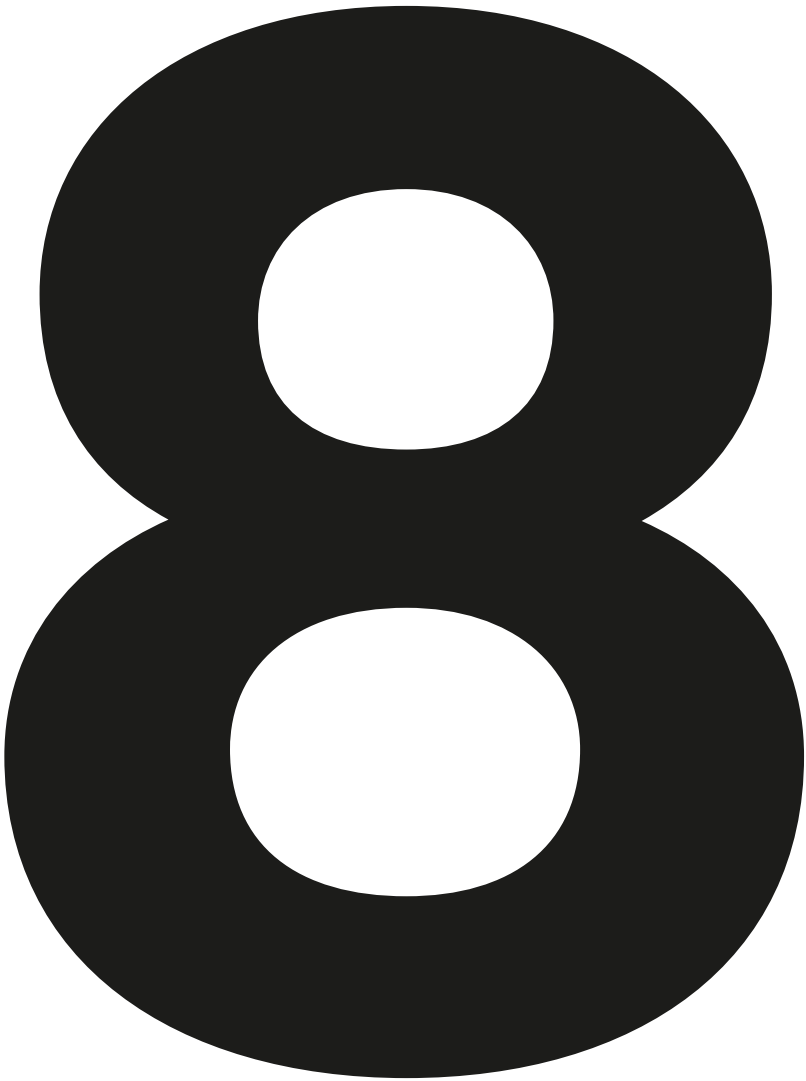

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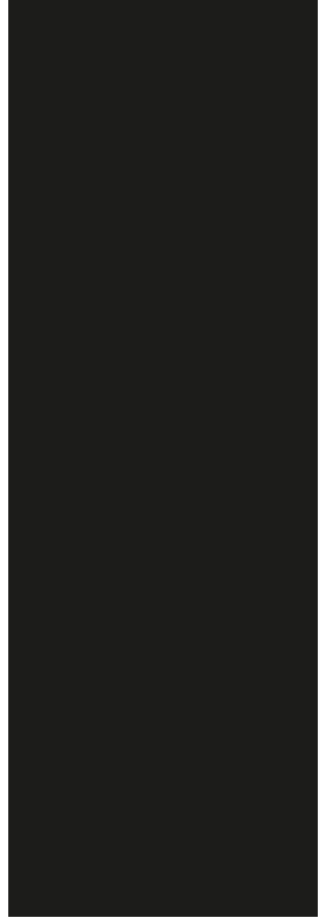

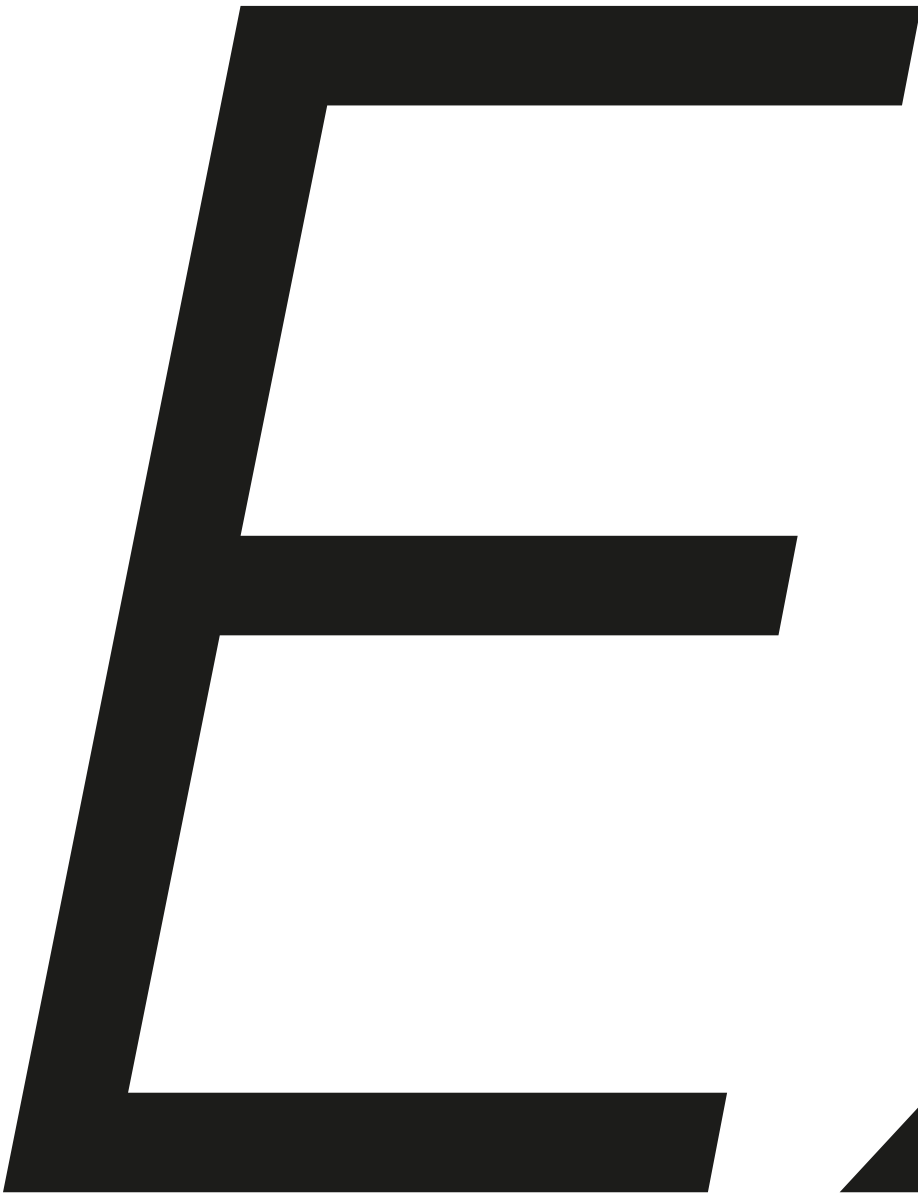

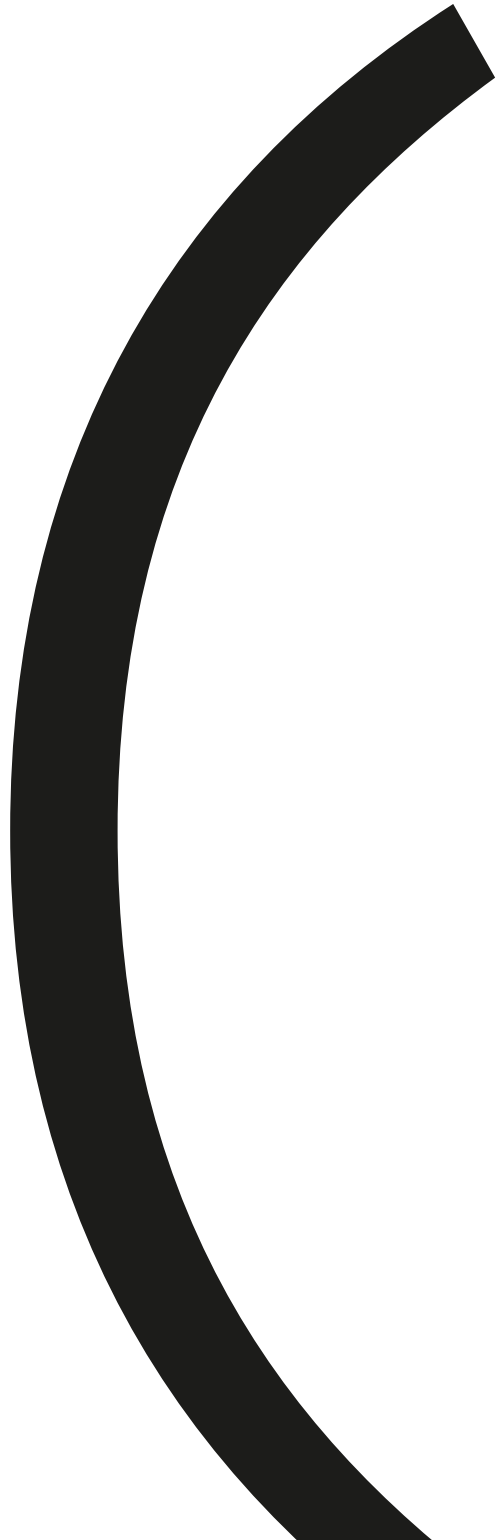

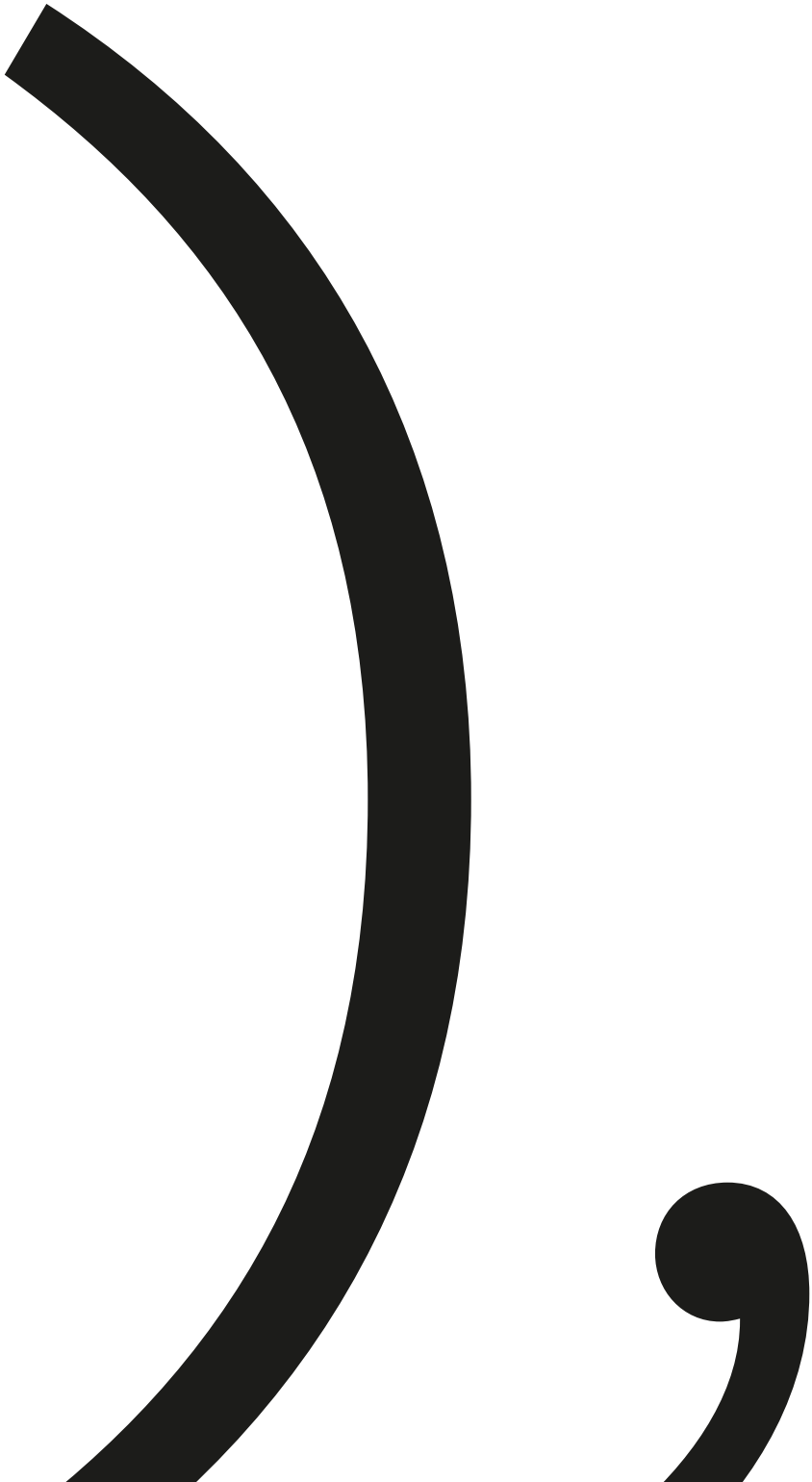

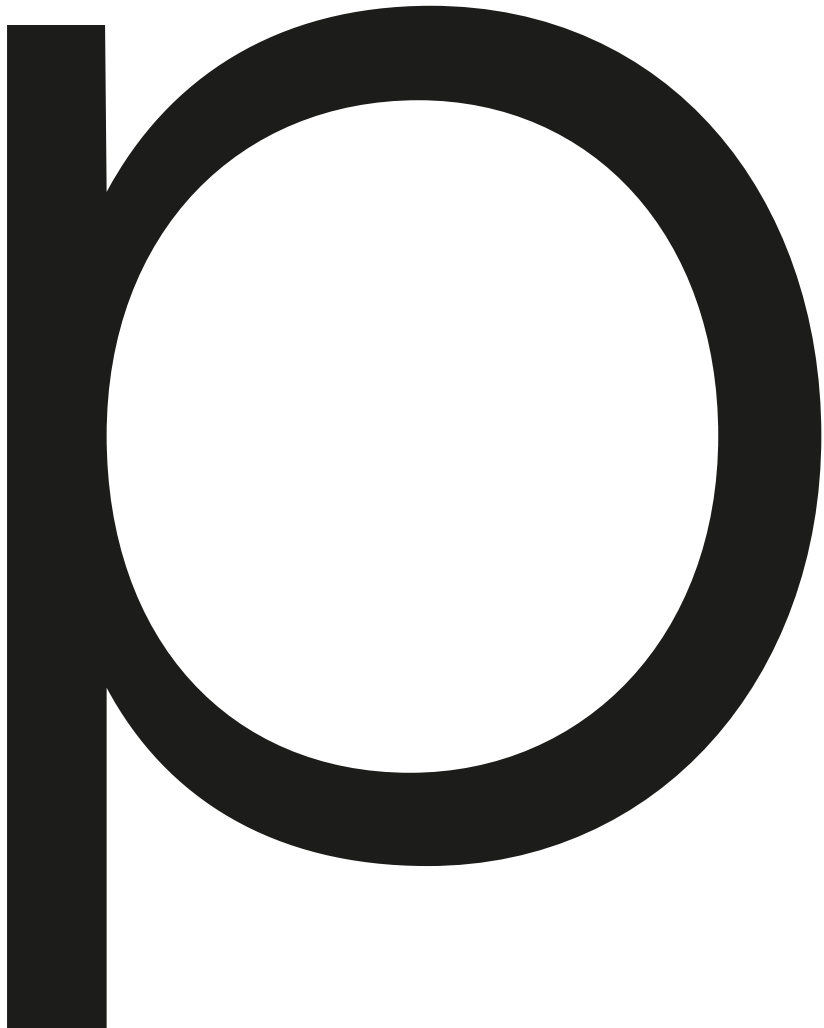

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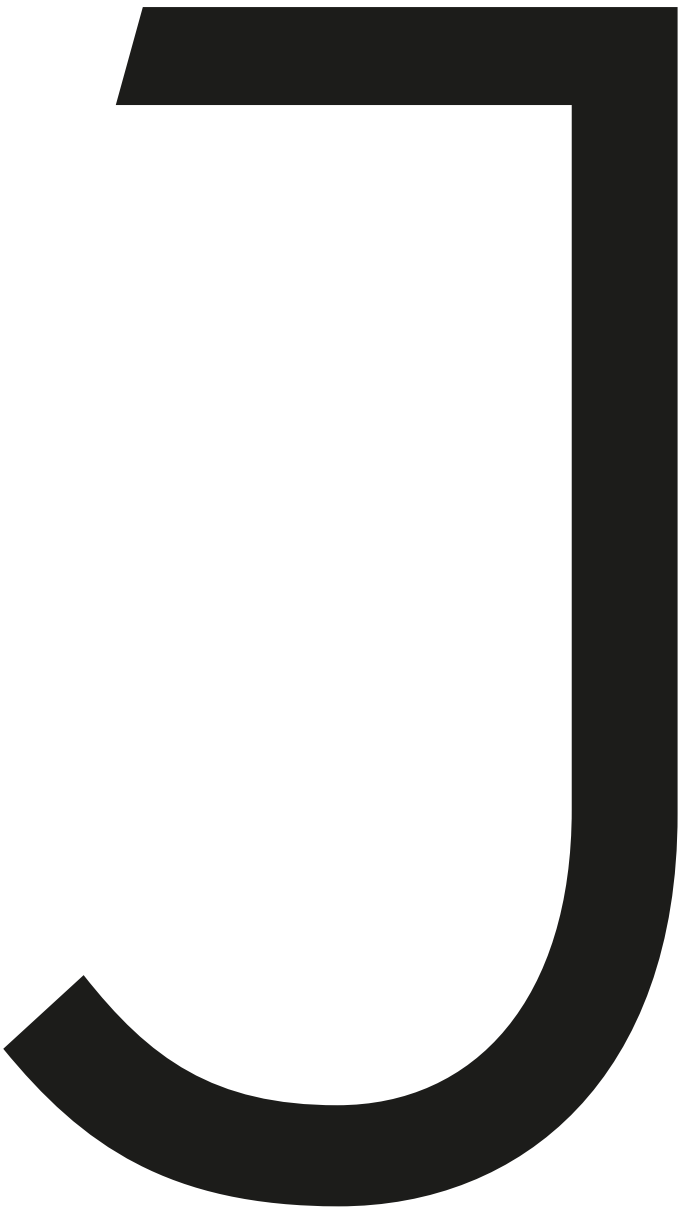

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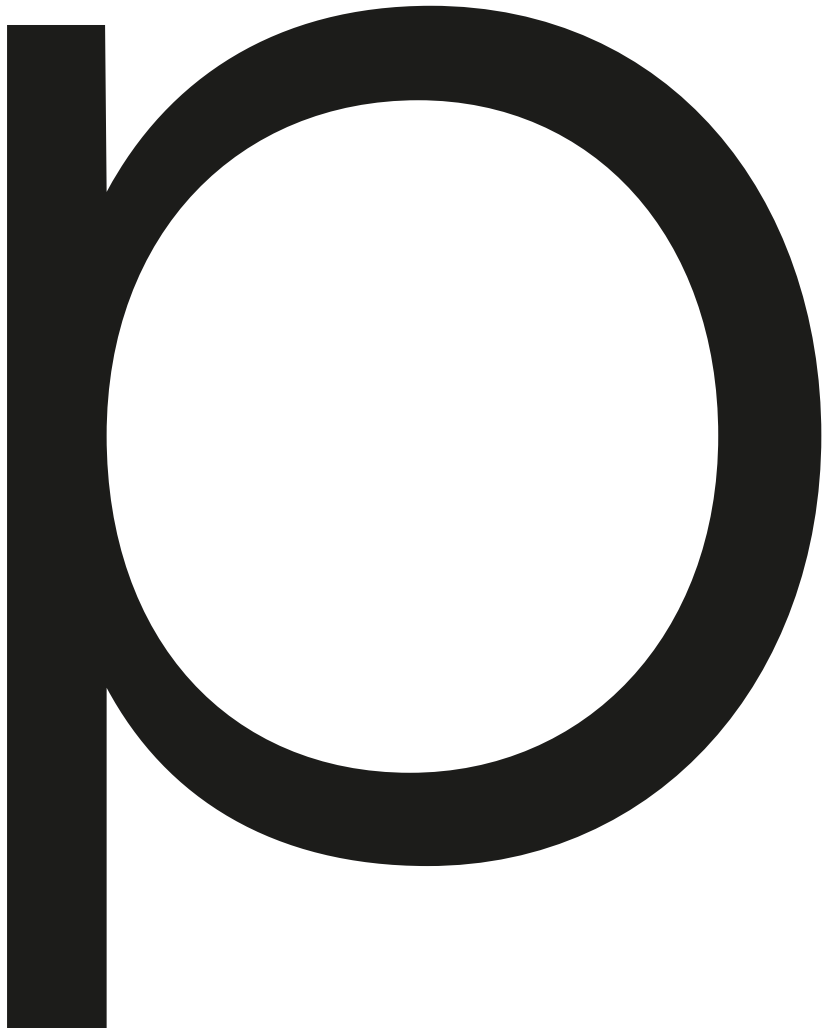

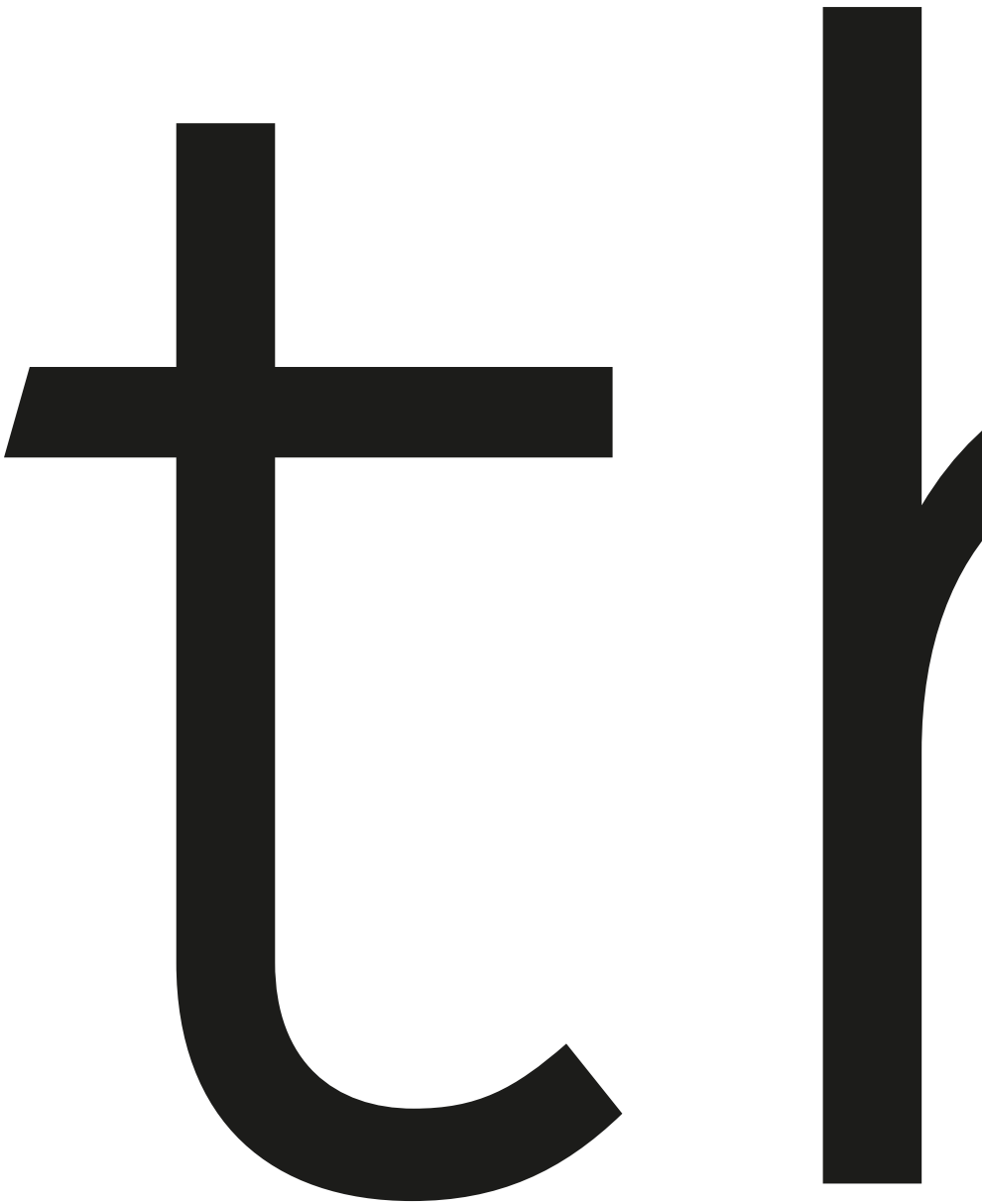

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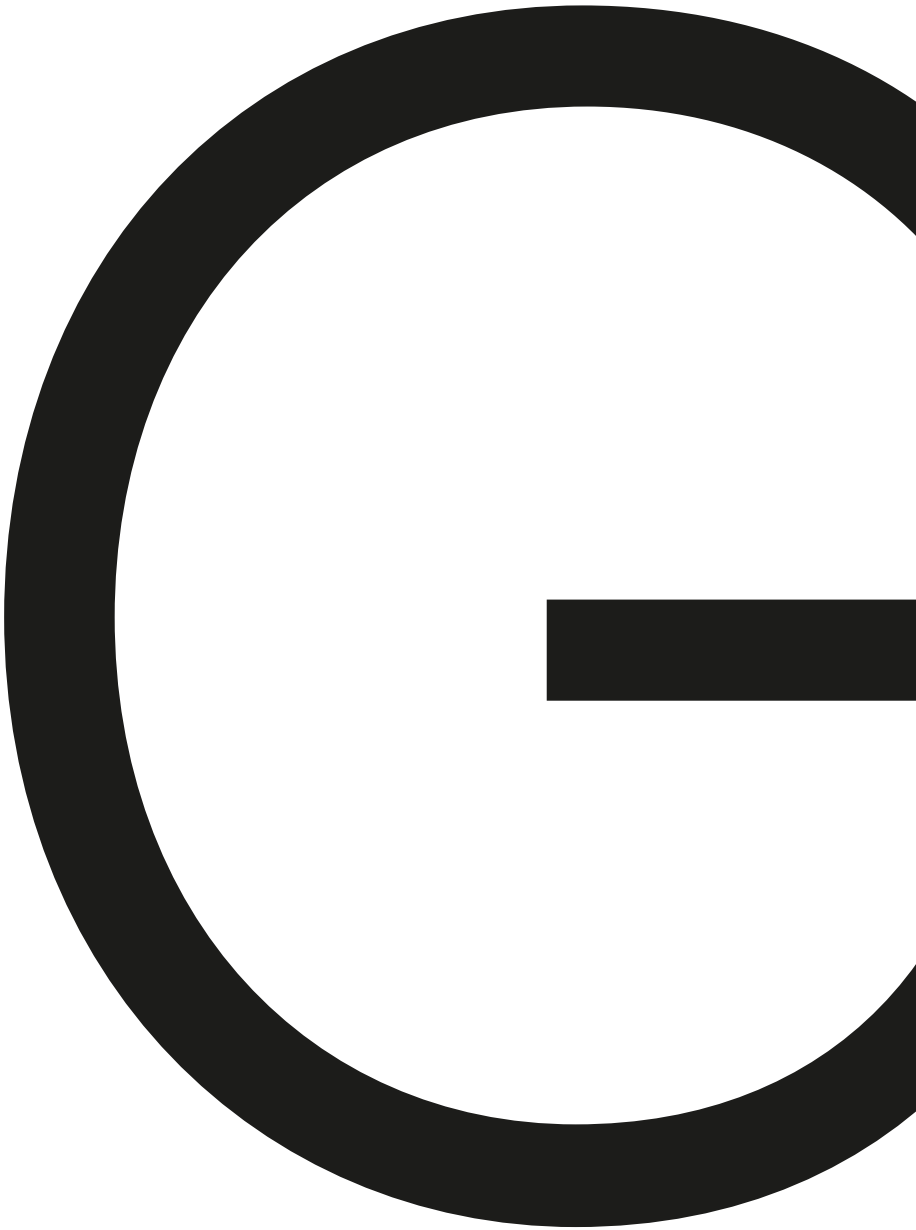

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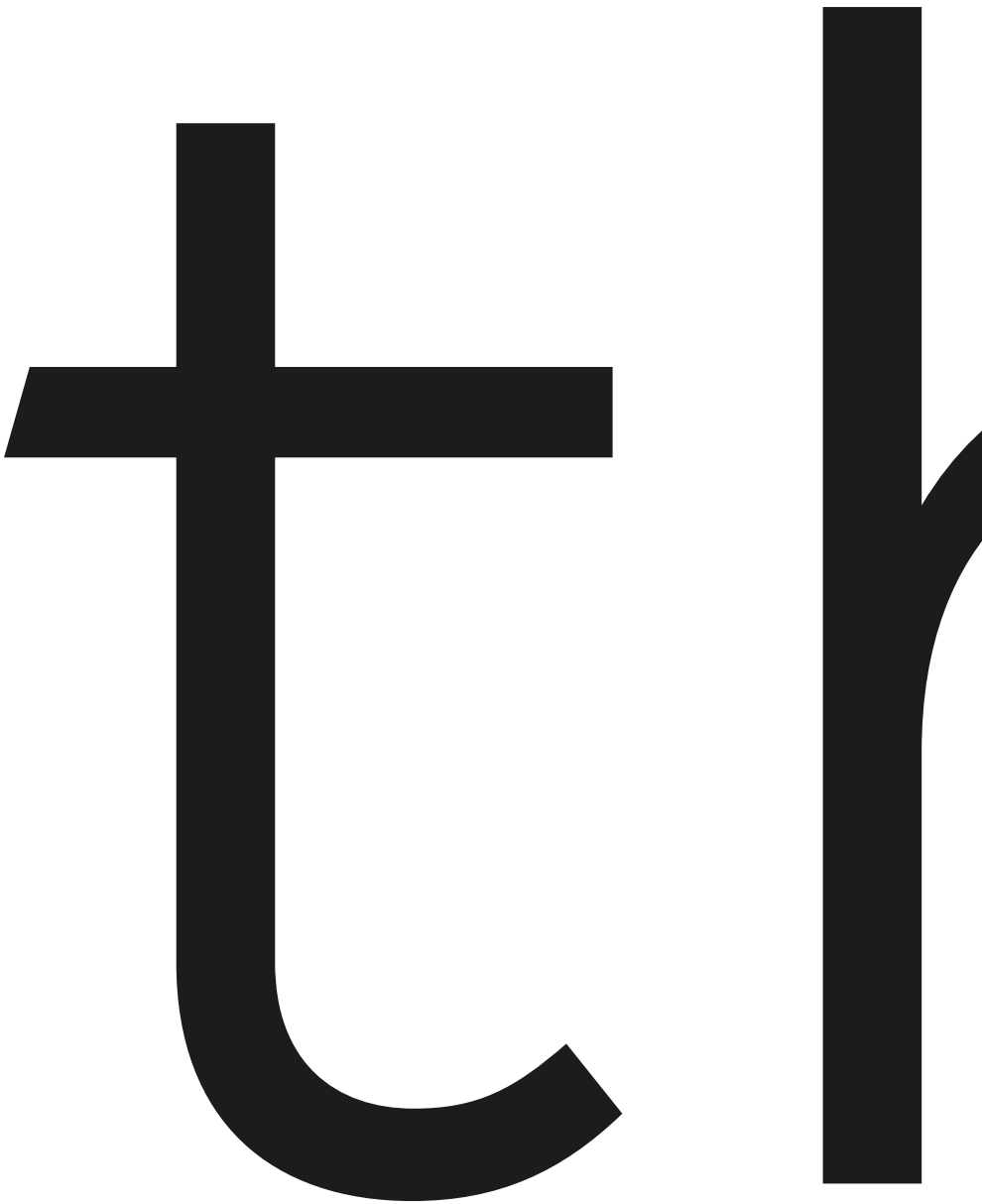

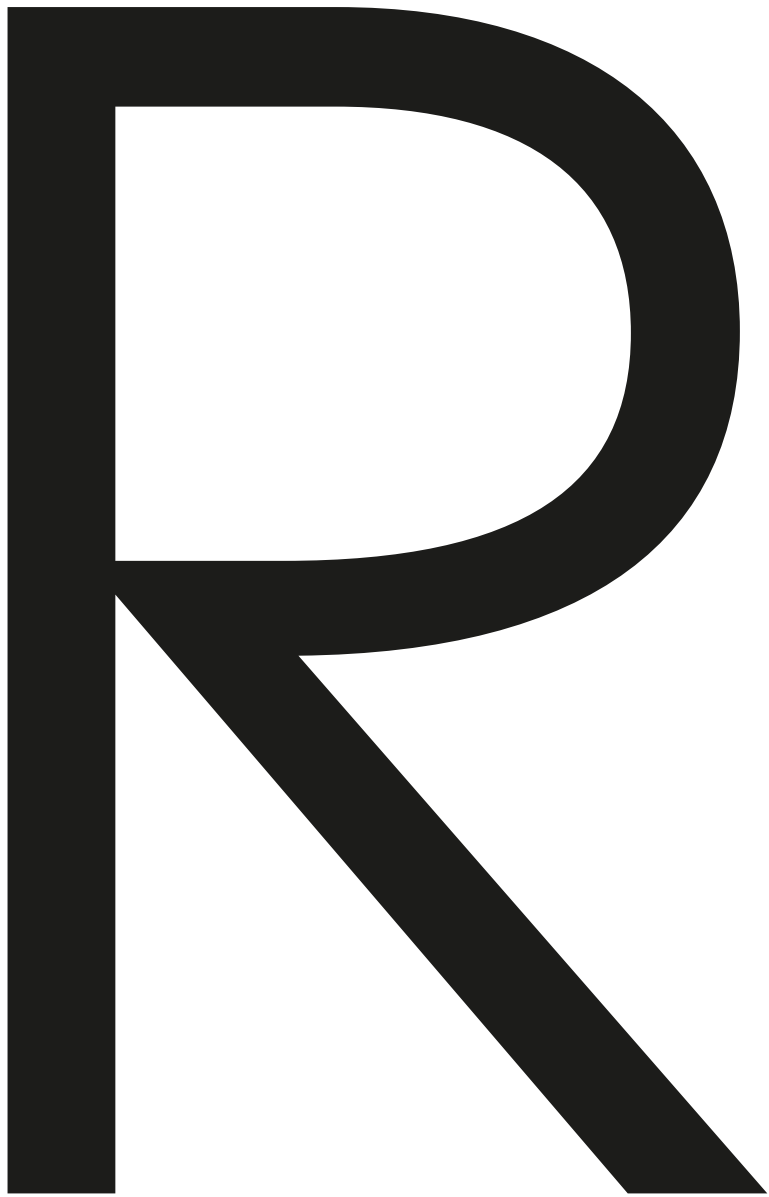

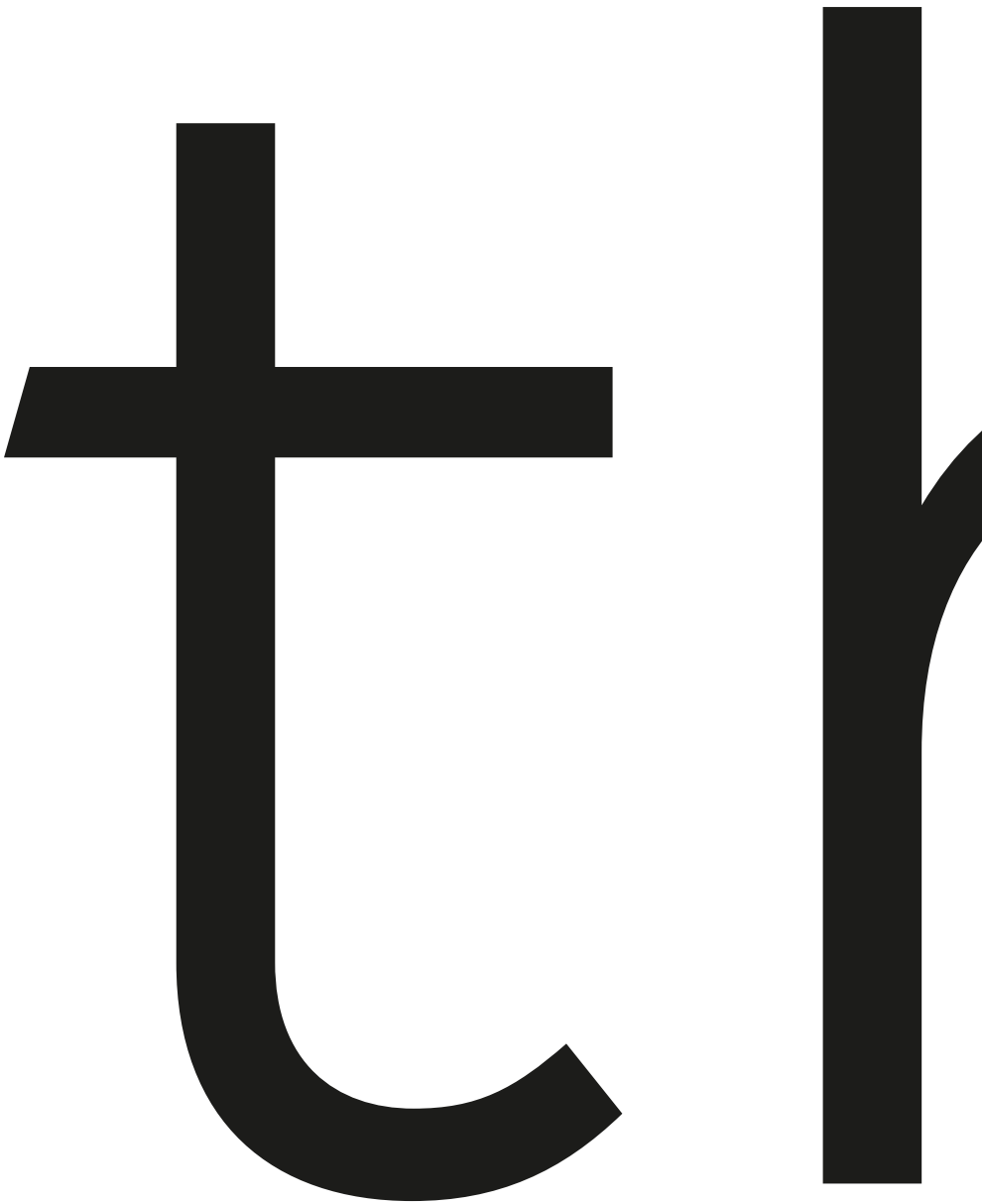

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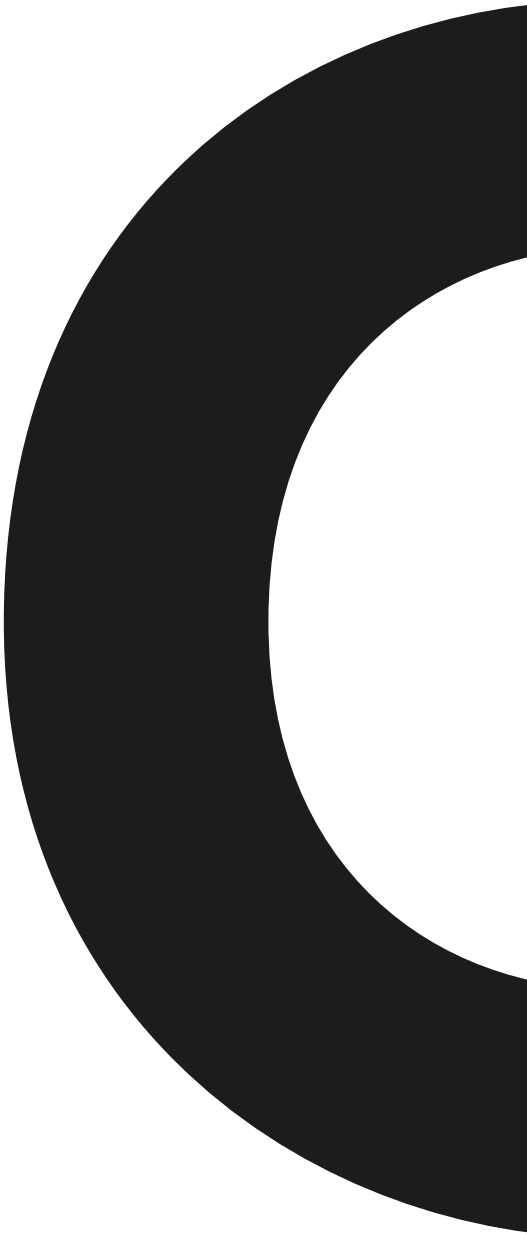

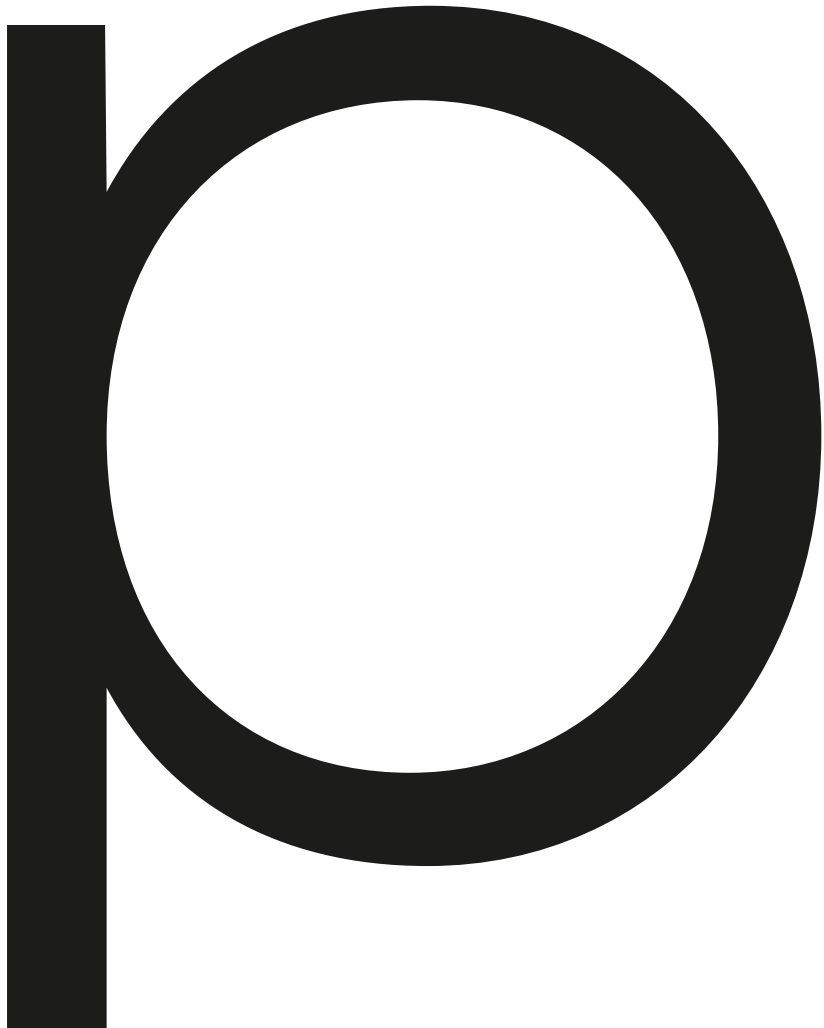

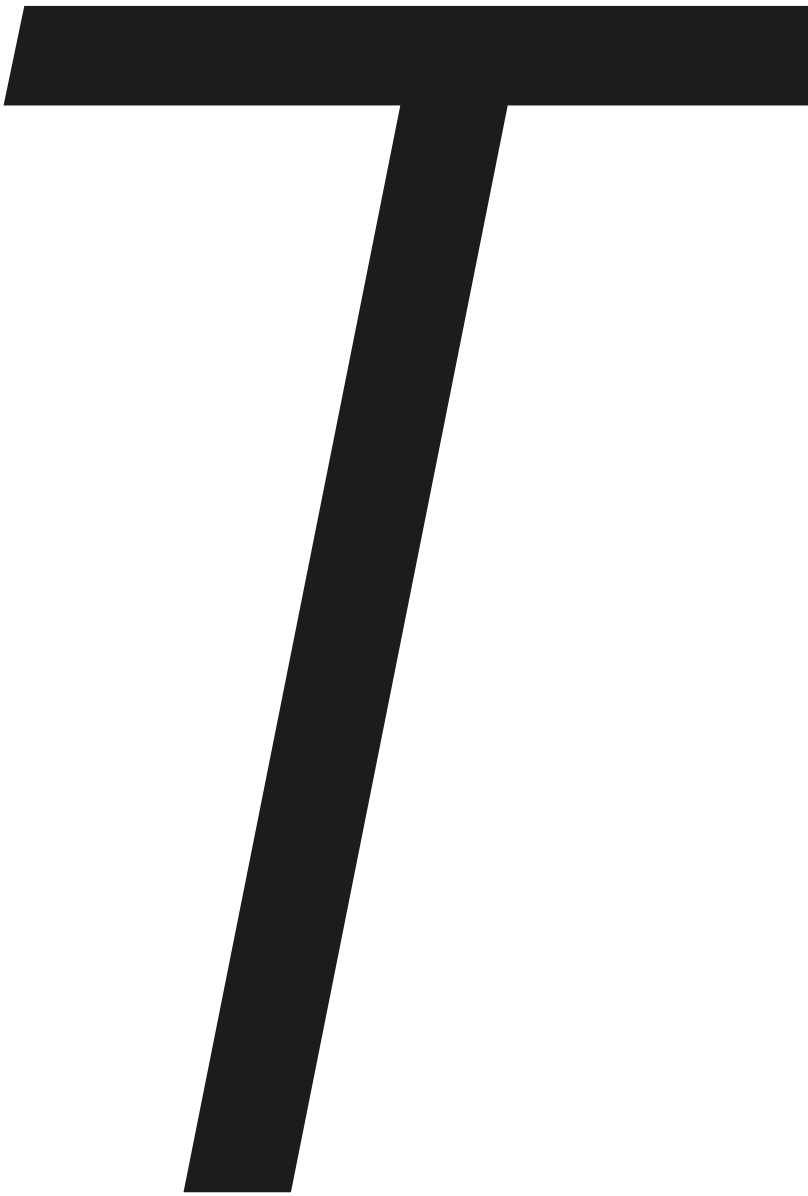

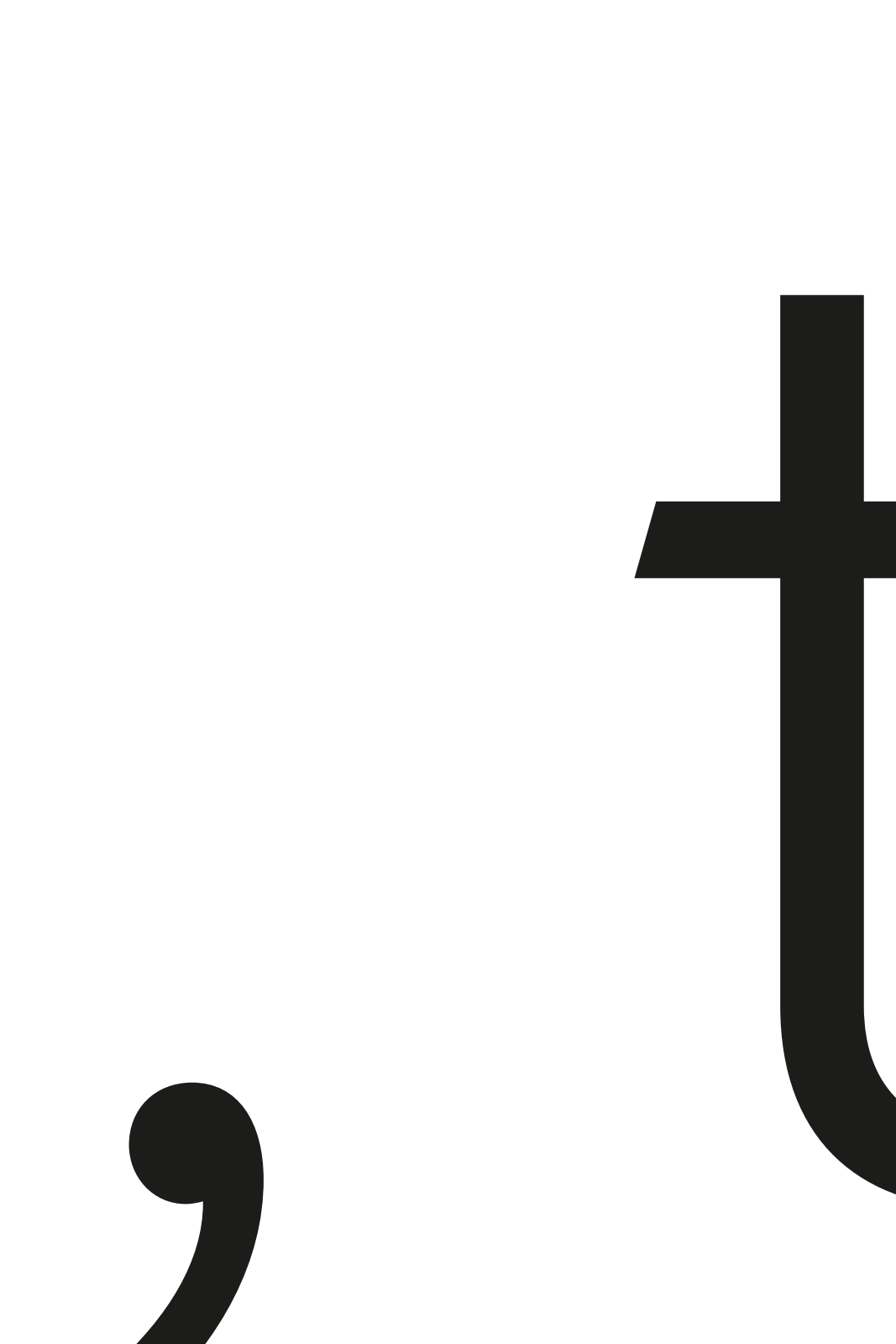

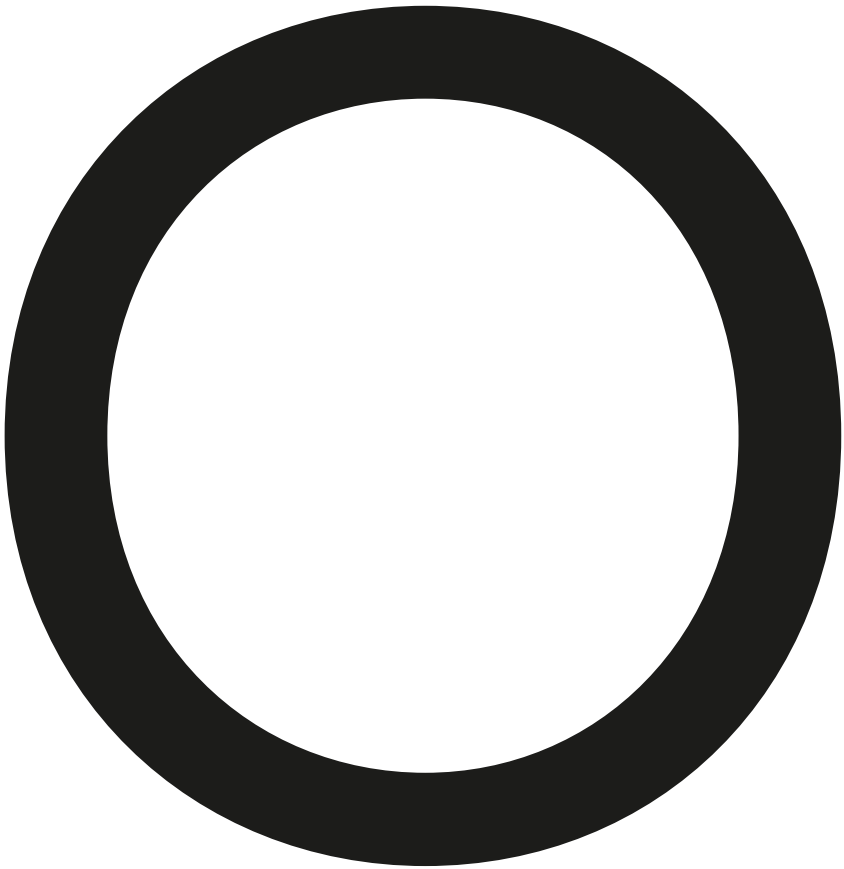

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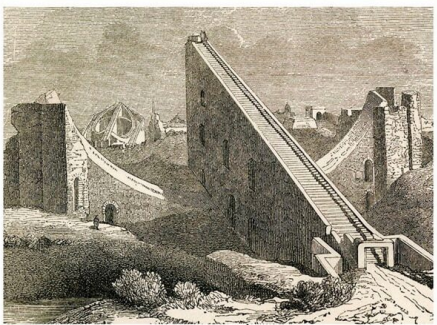
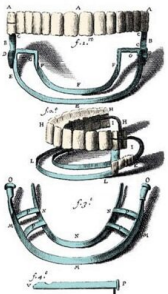




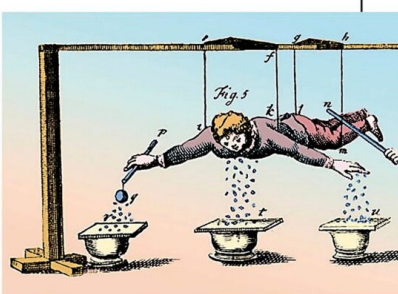
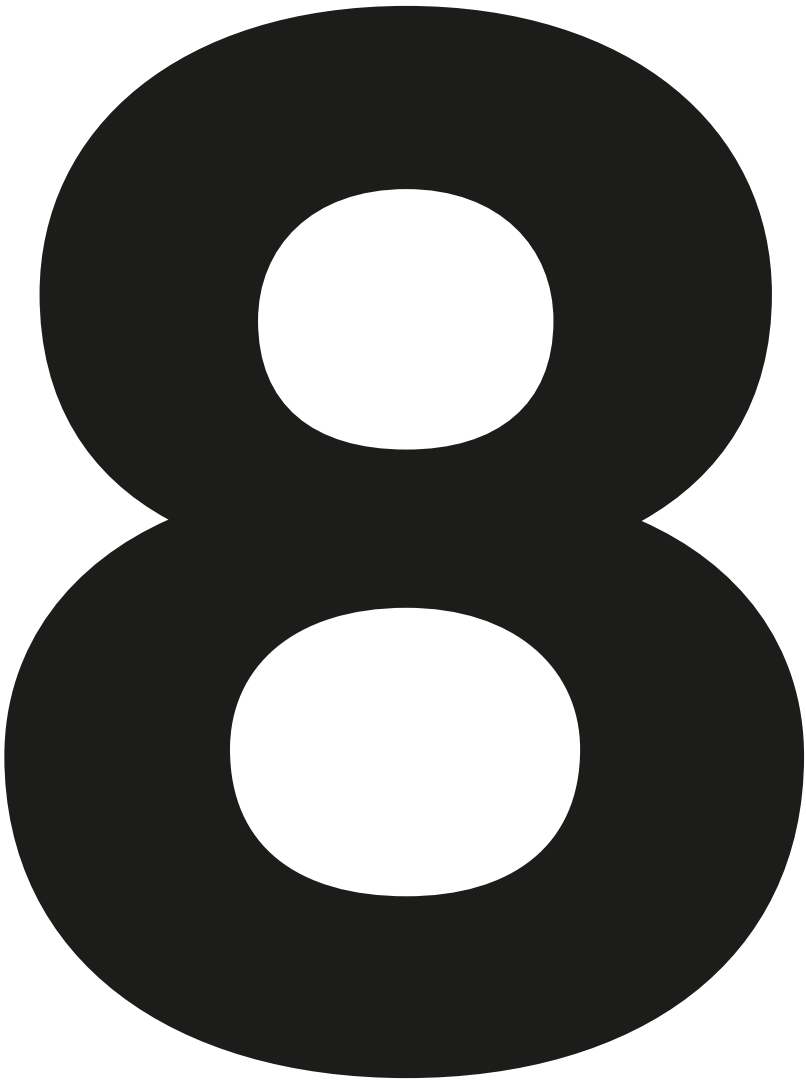


Fig. 5



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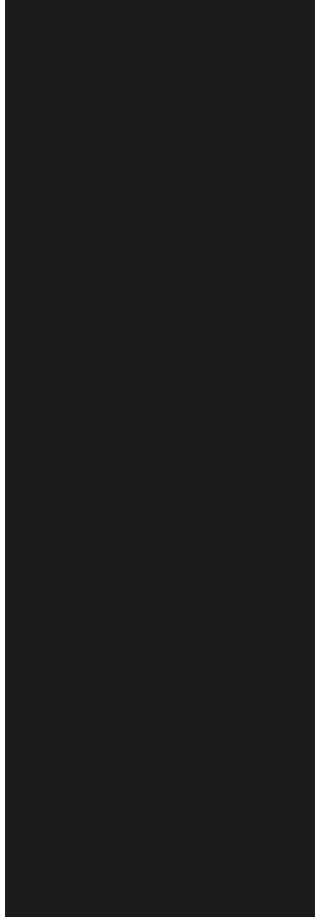
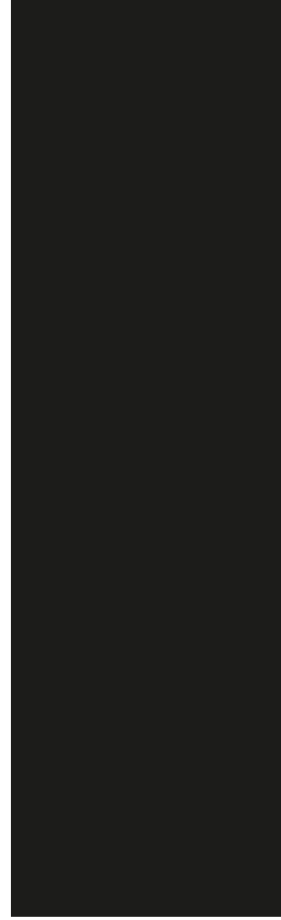

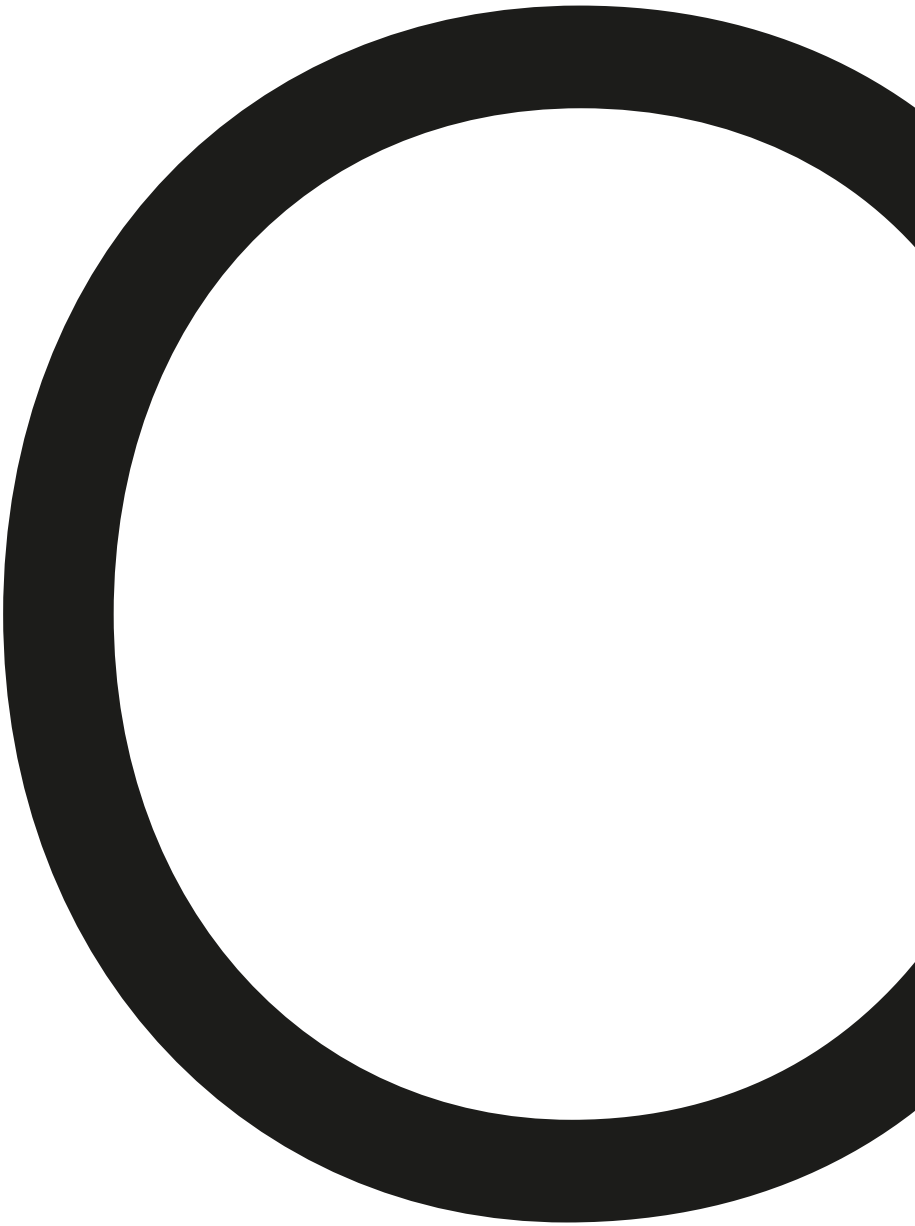

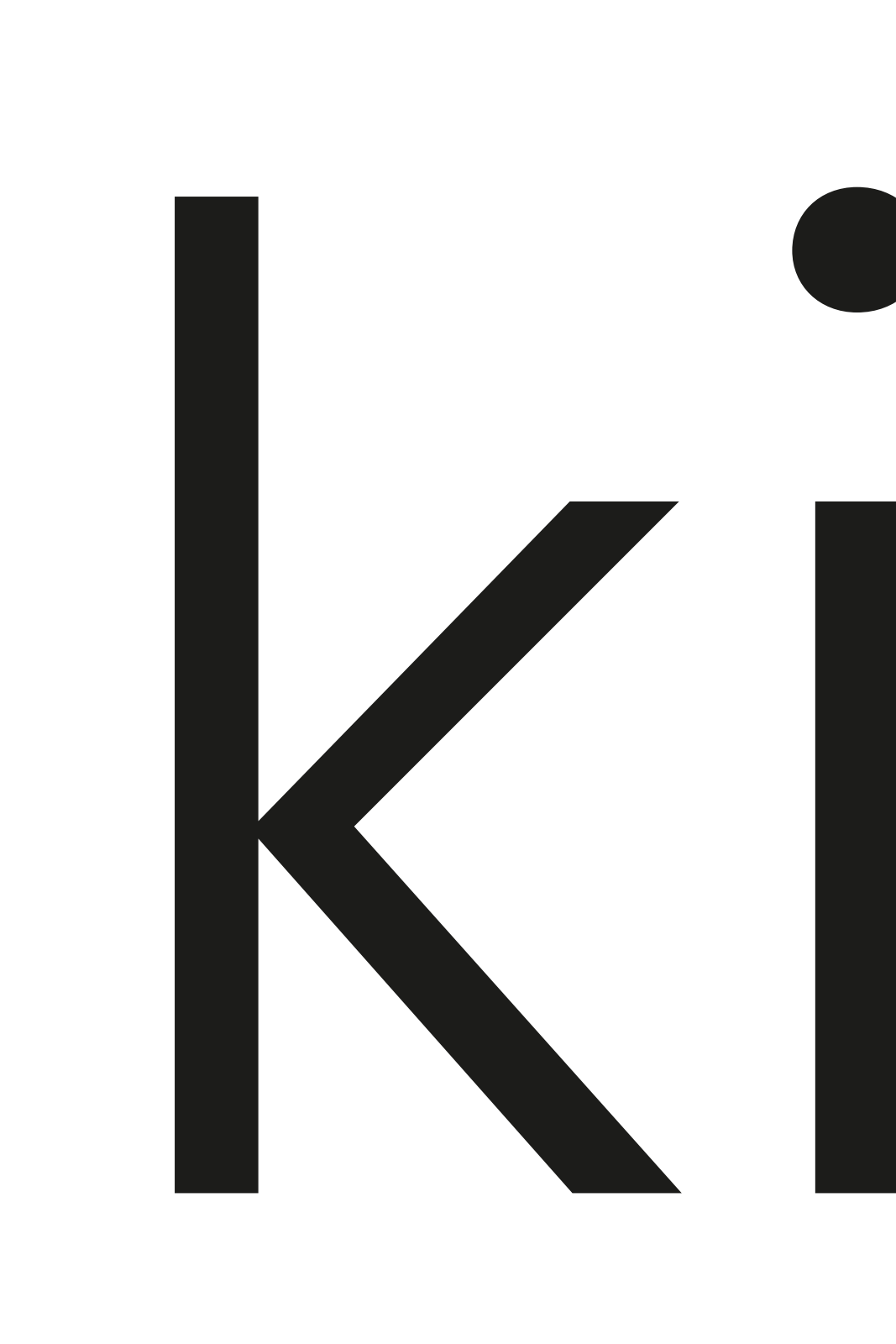

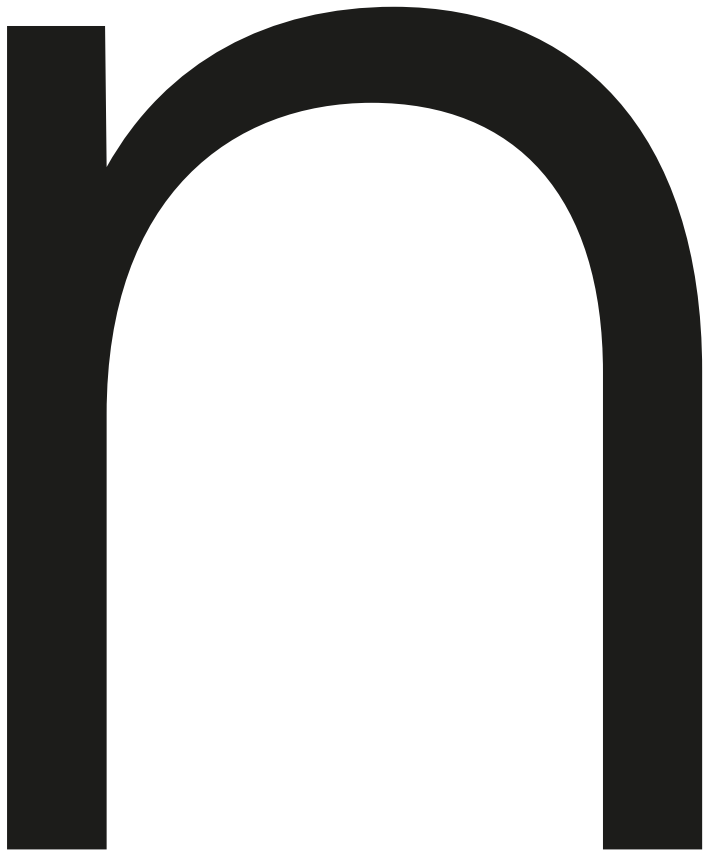

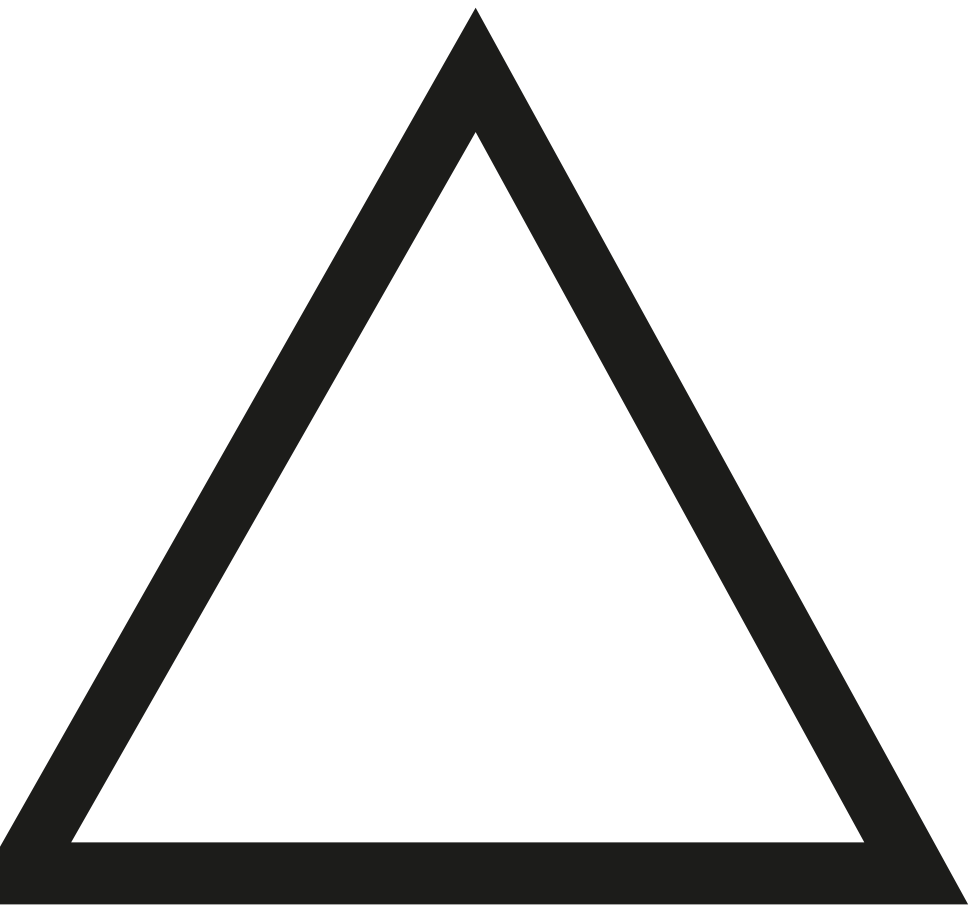

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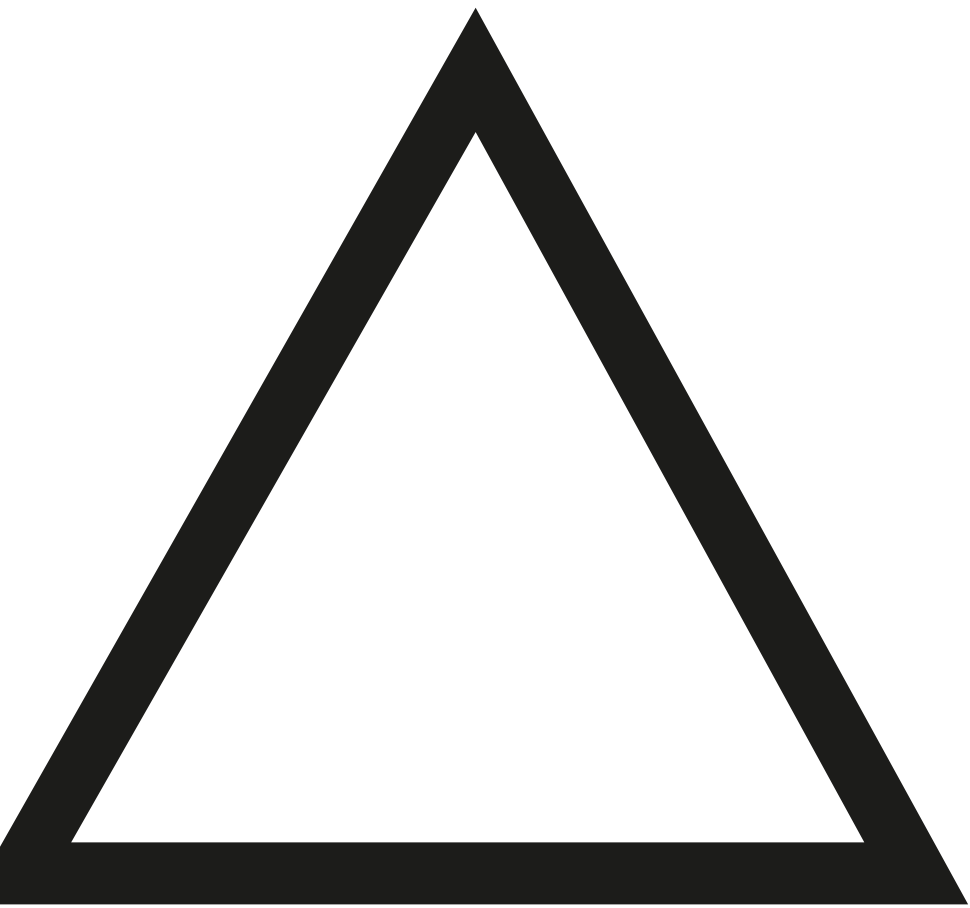

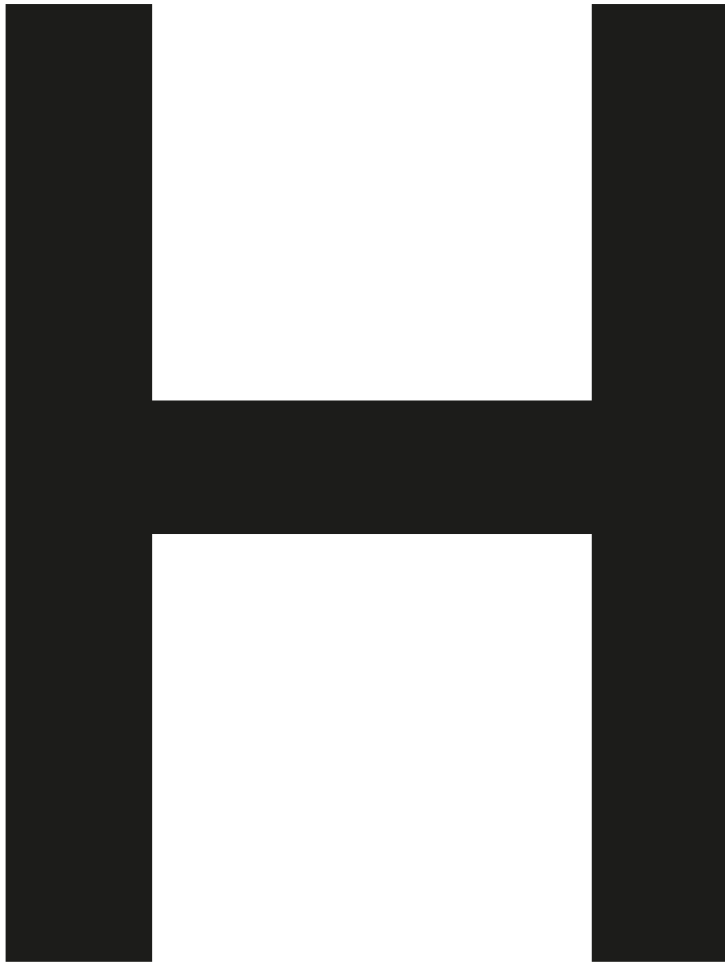

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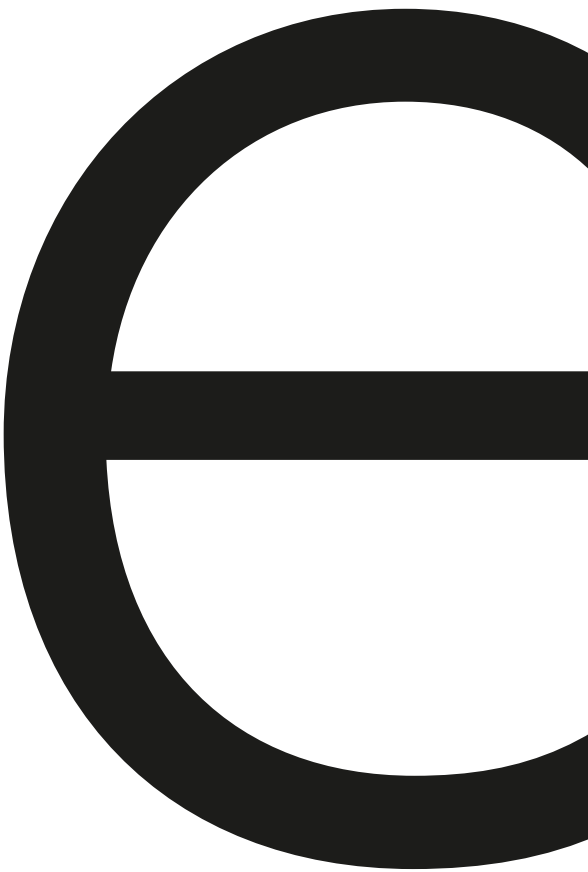

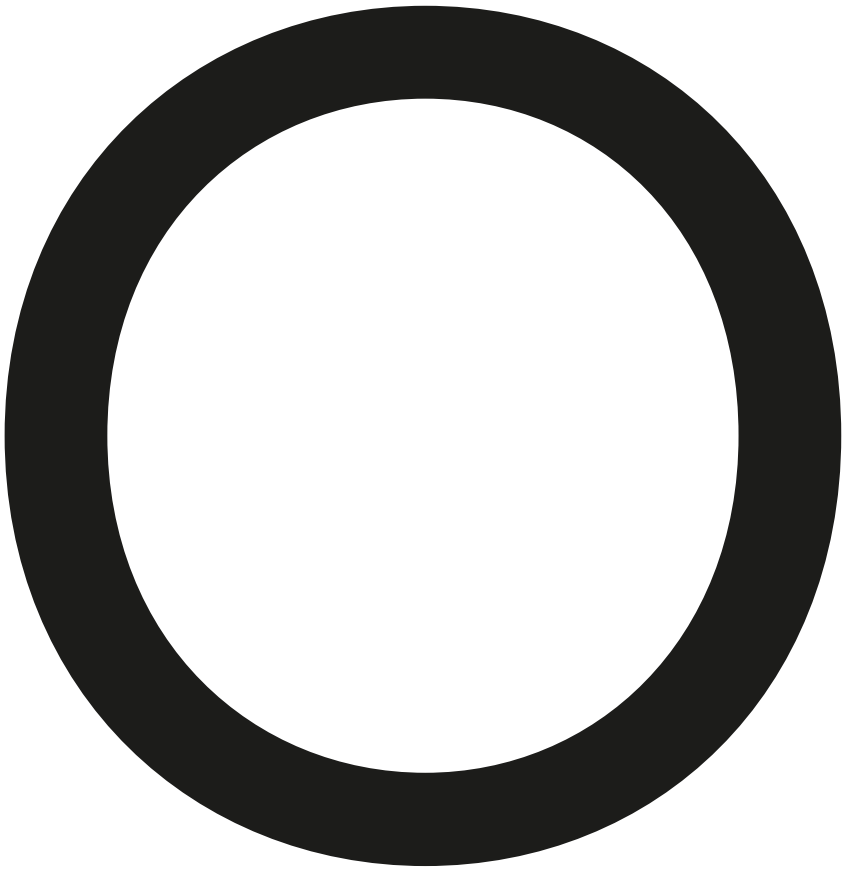

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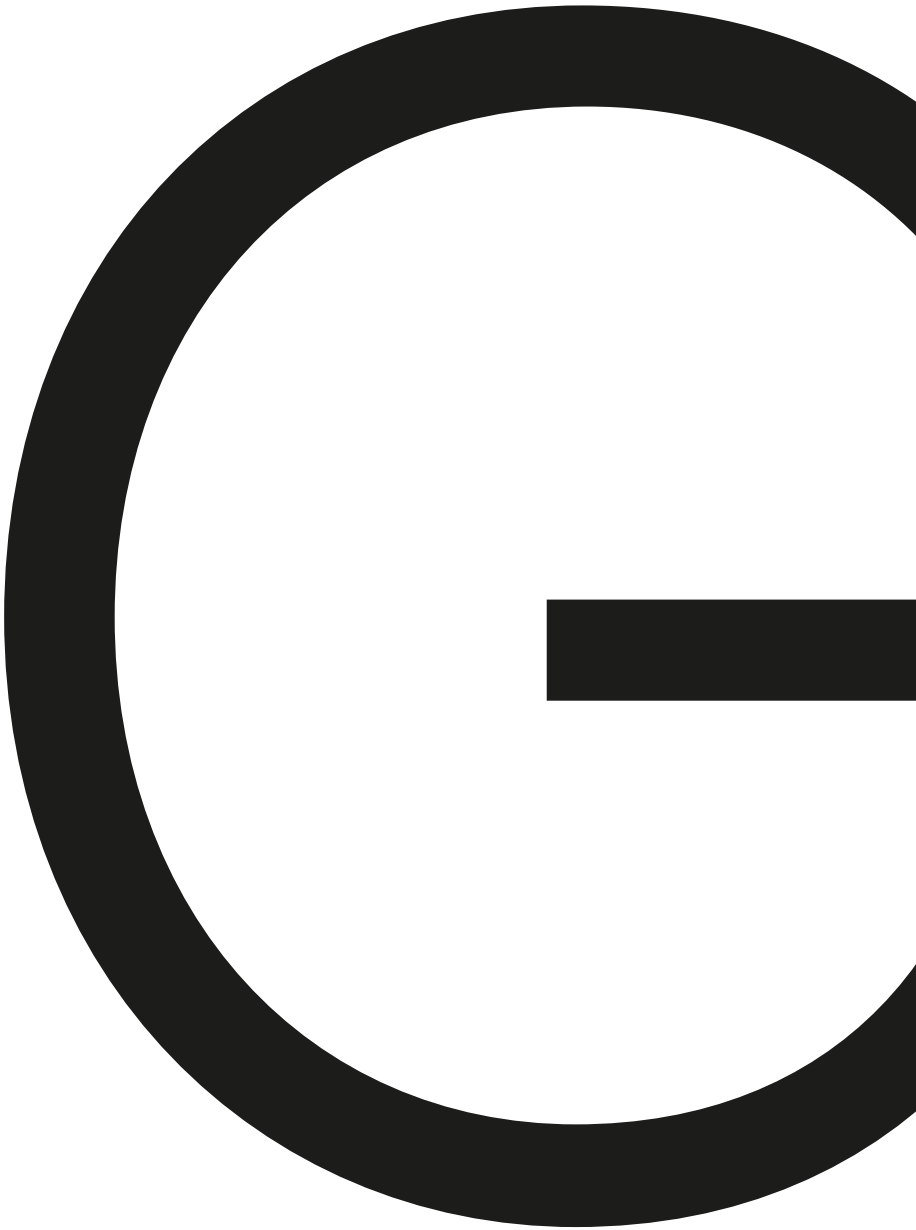

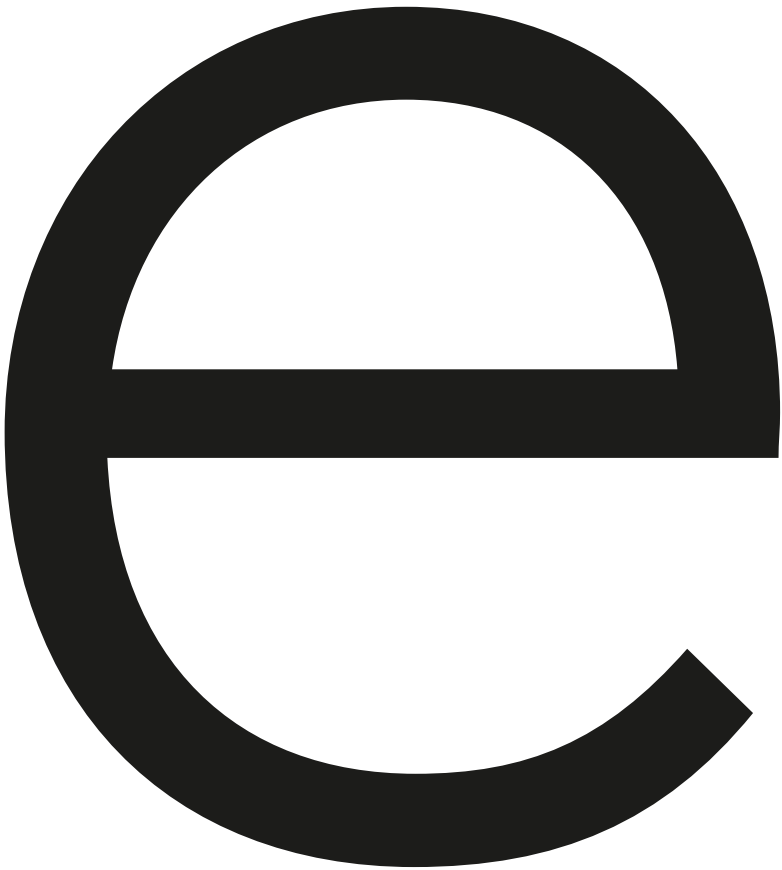

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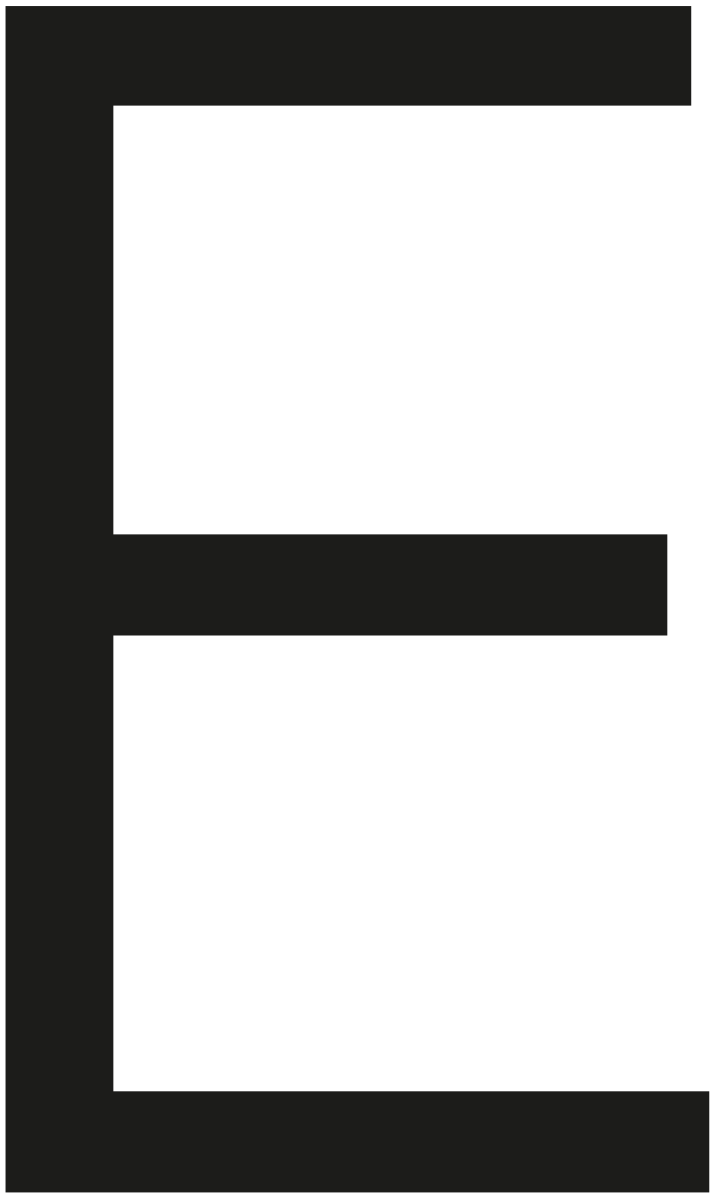

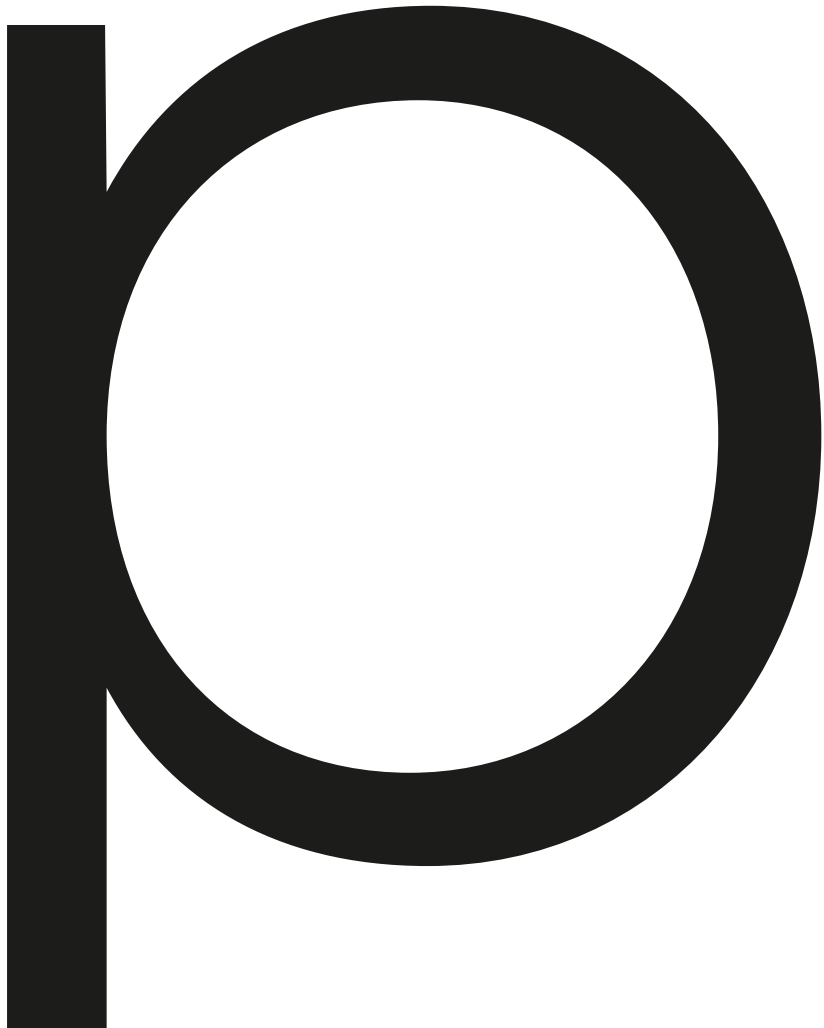

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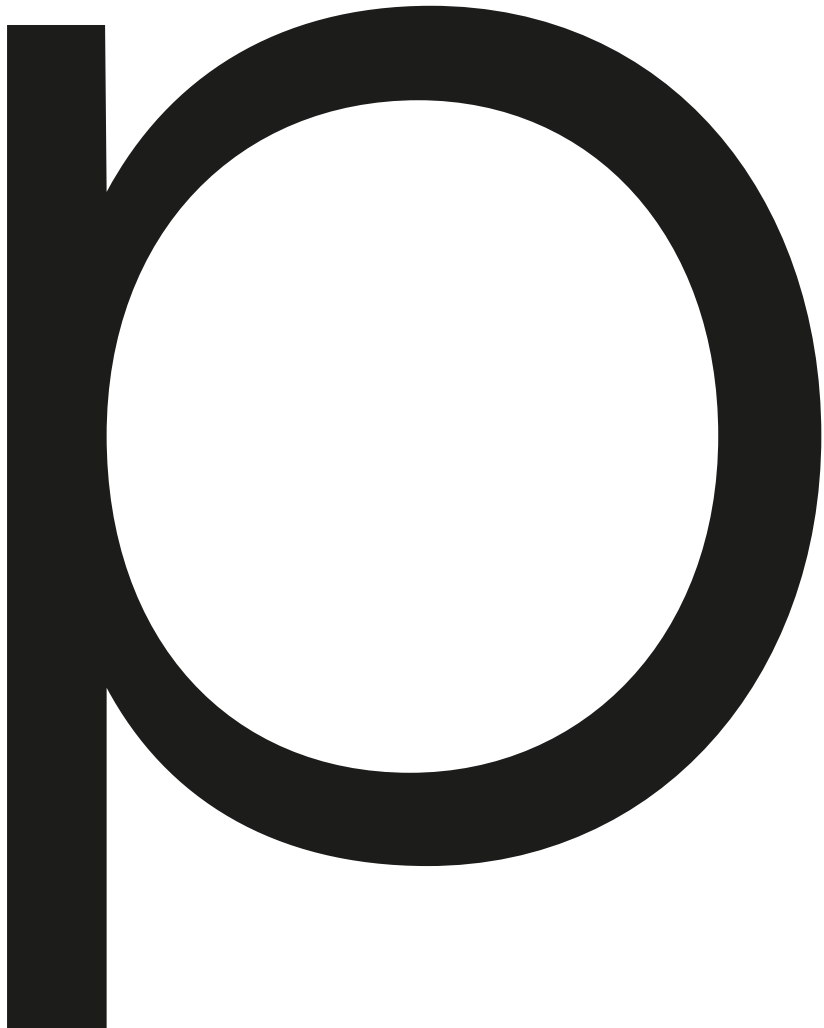

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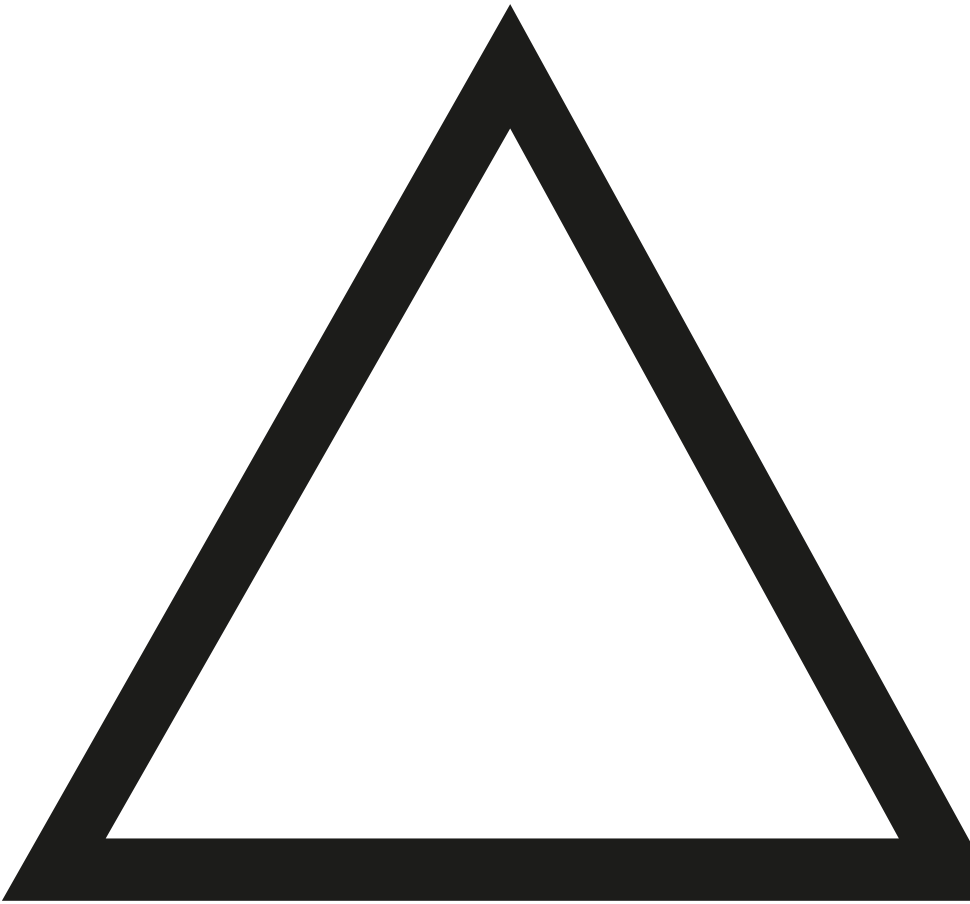

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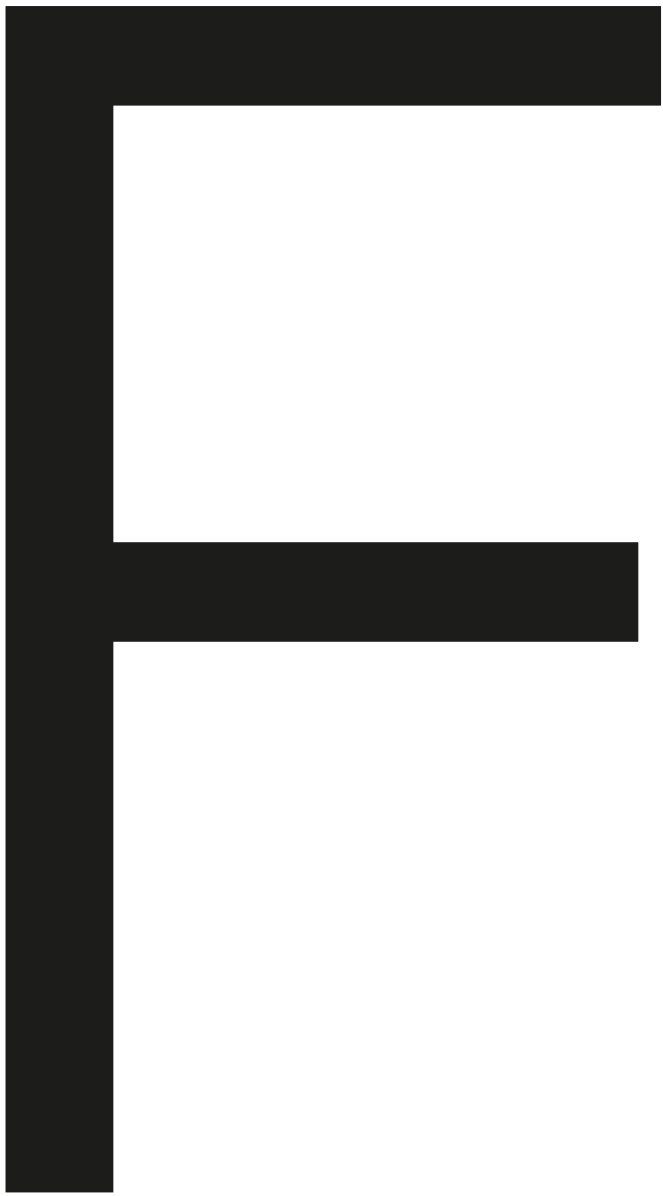

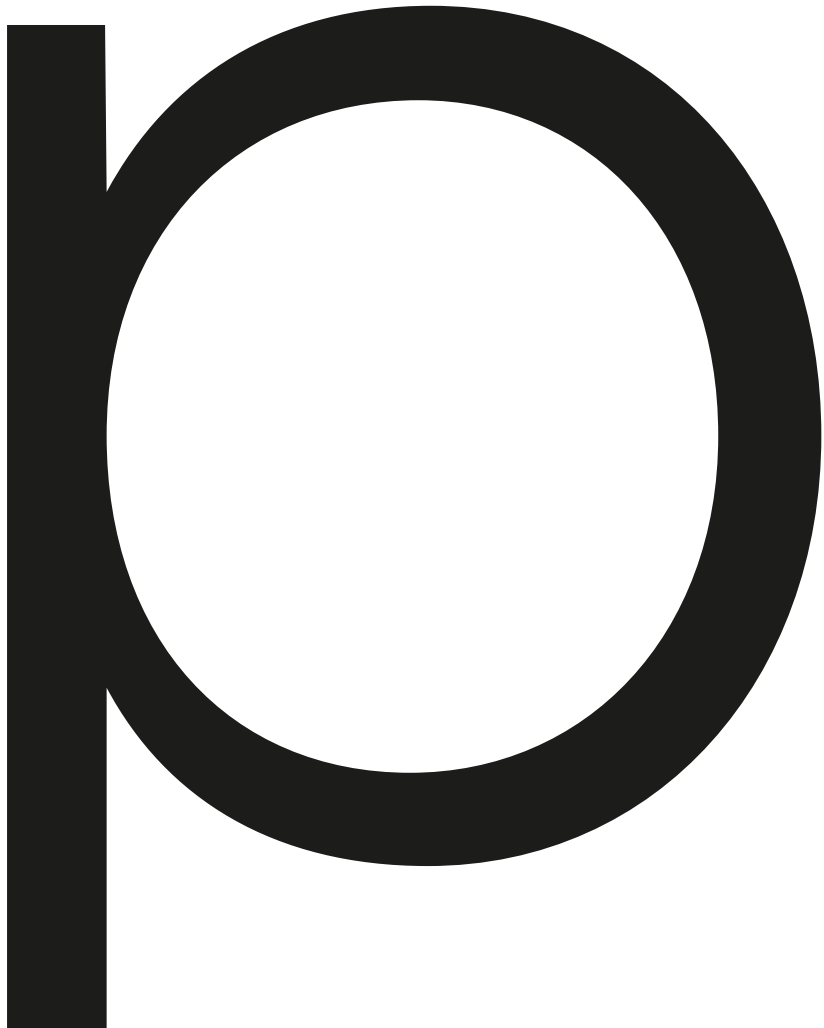

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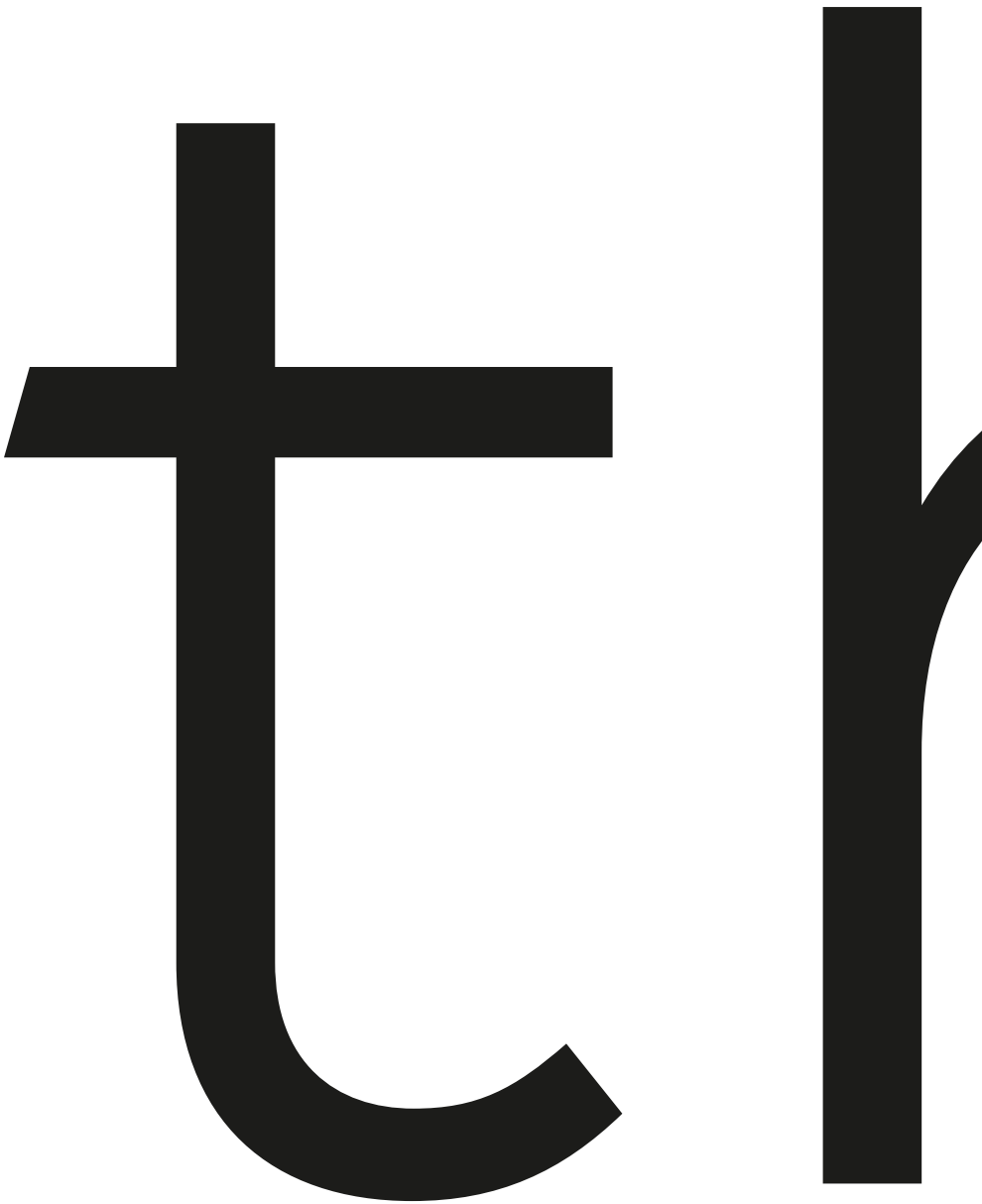

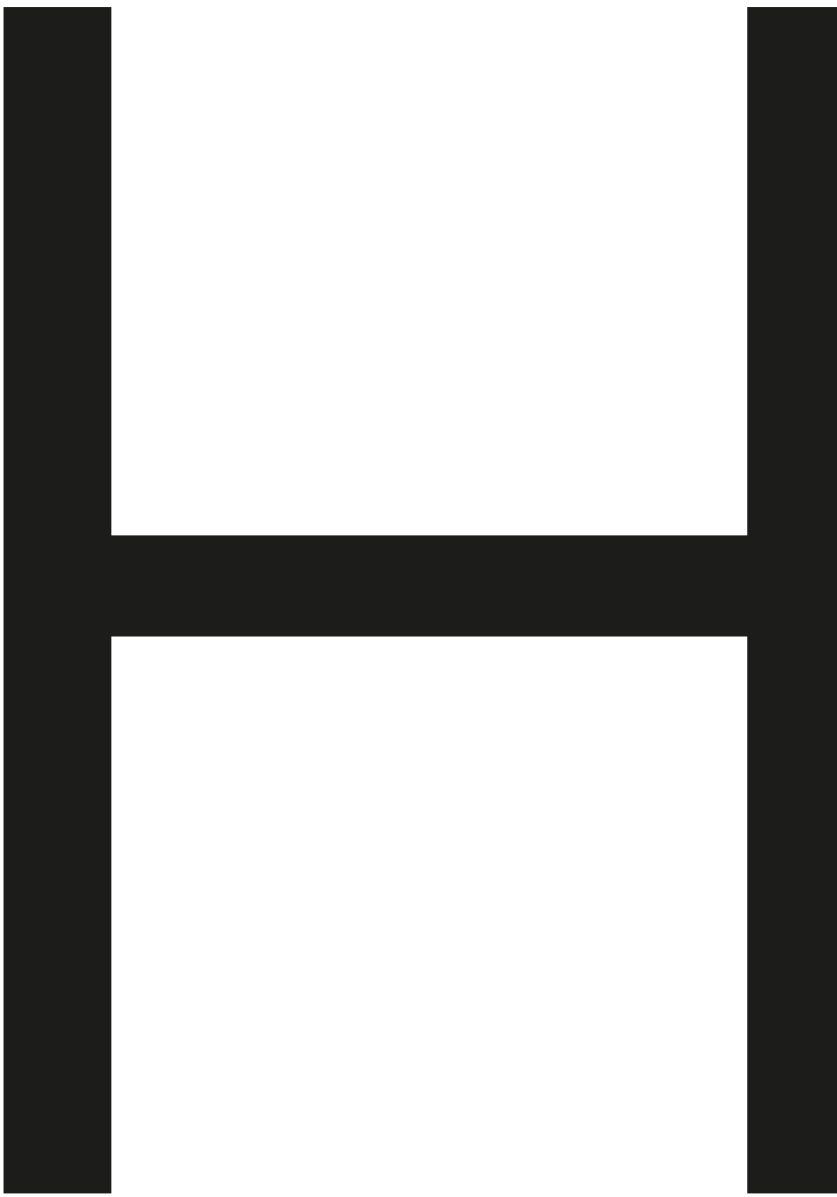

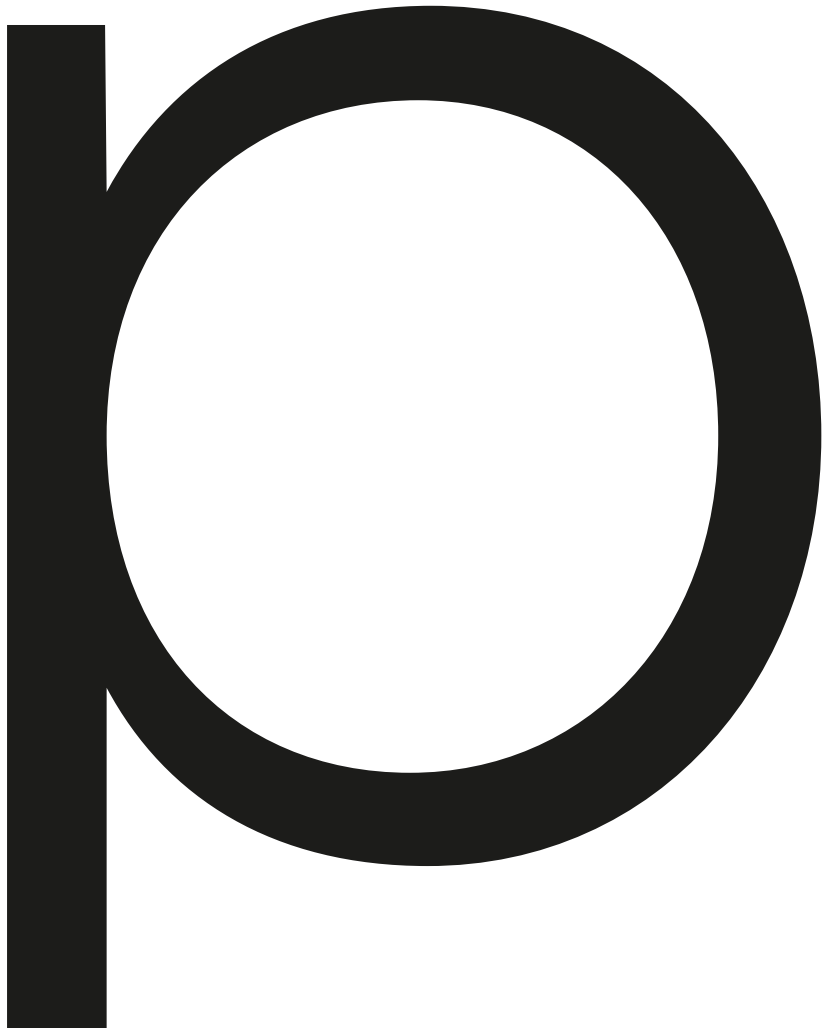

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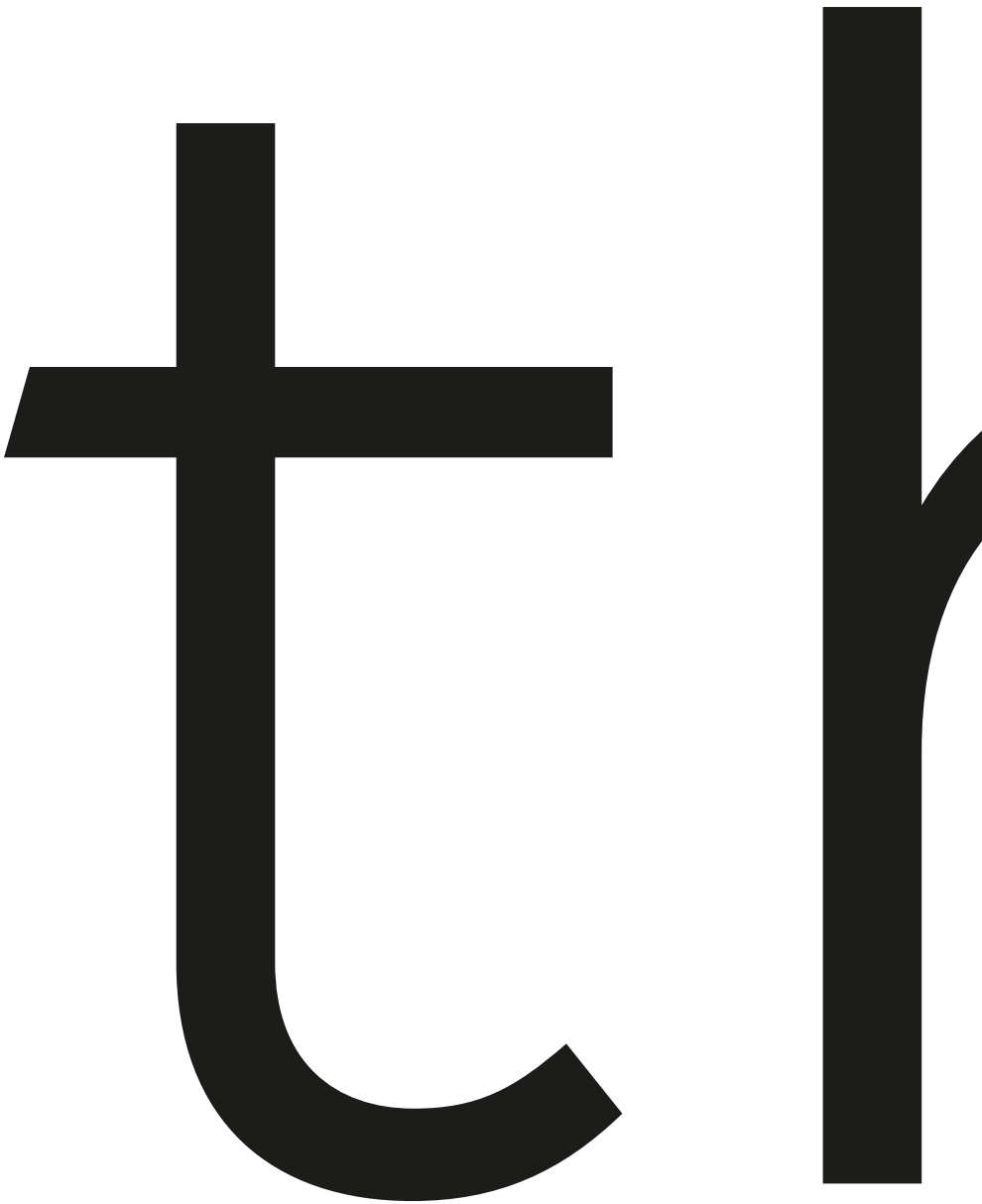

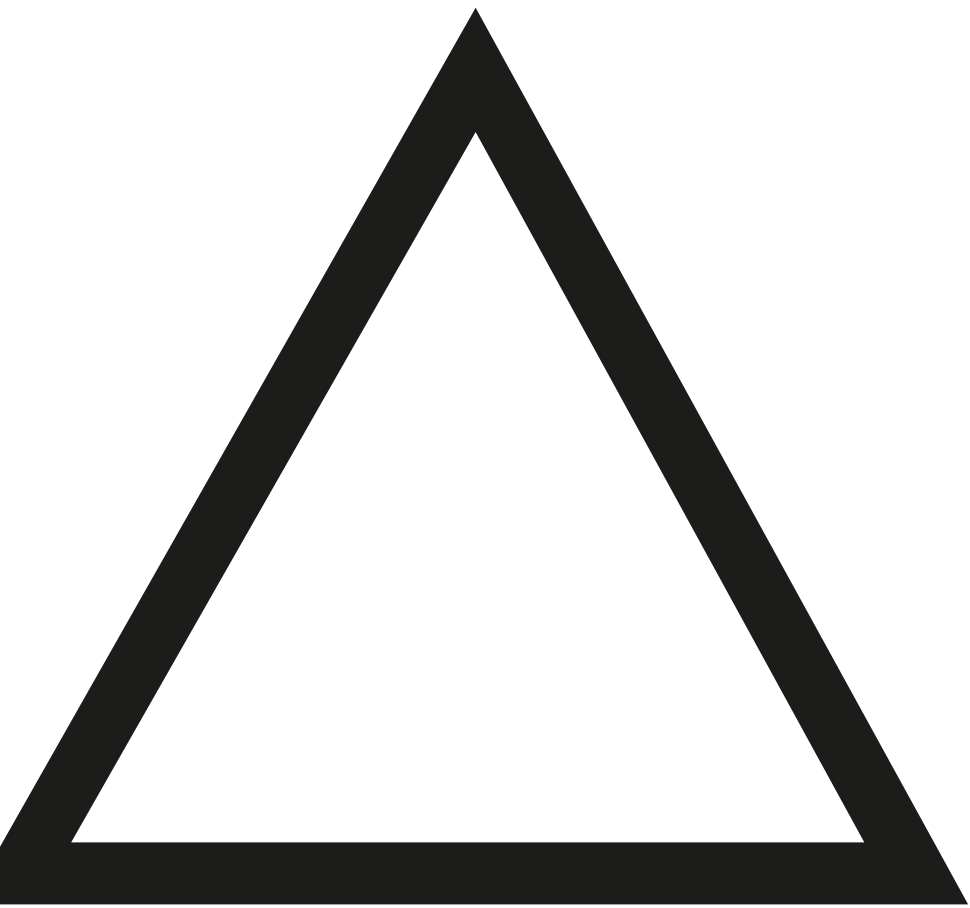

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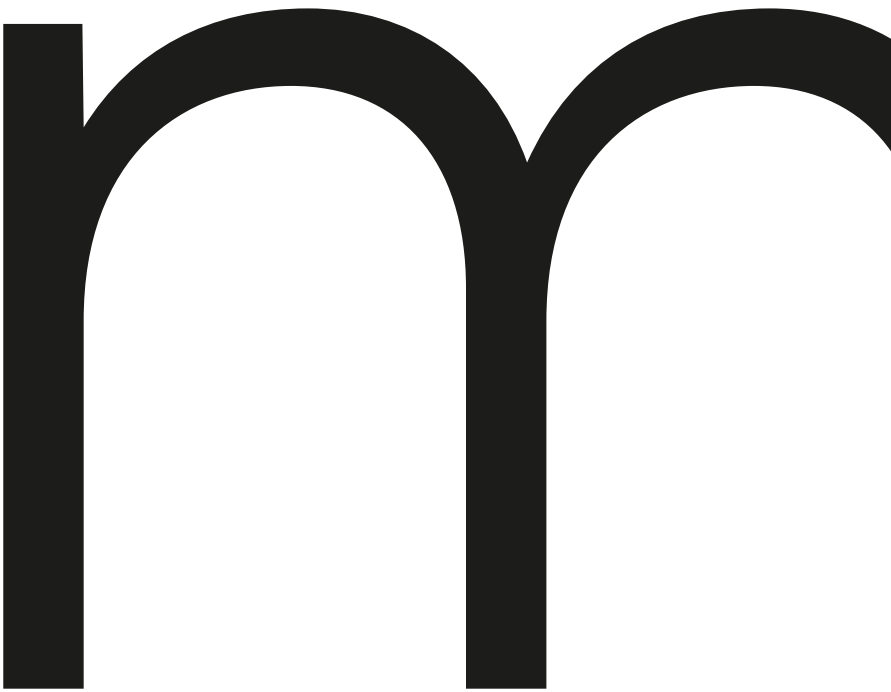

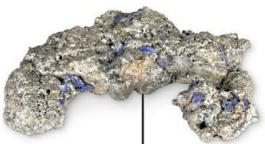

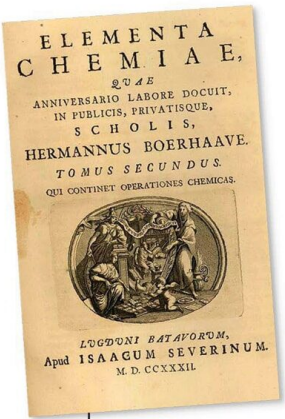
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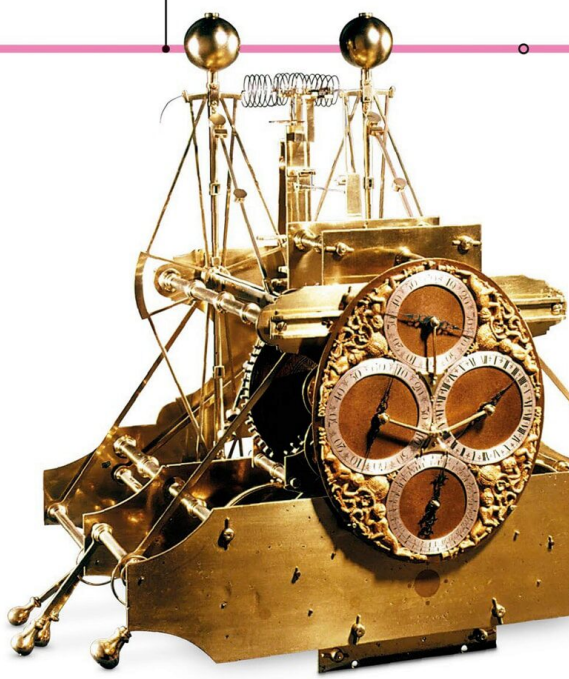

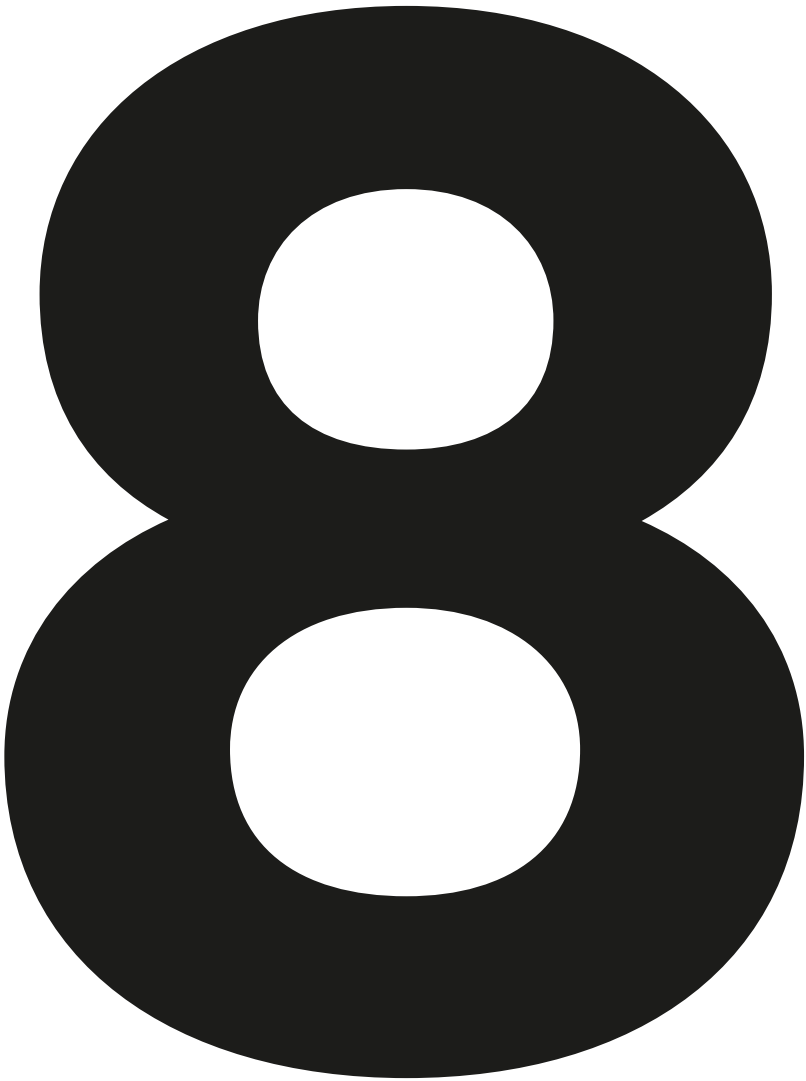

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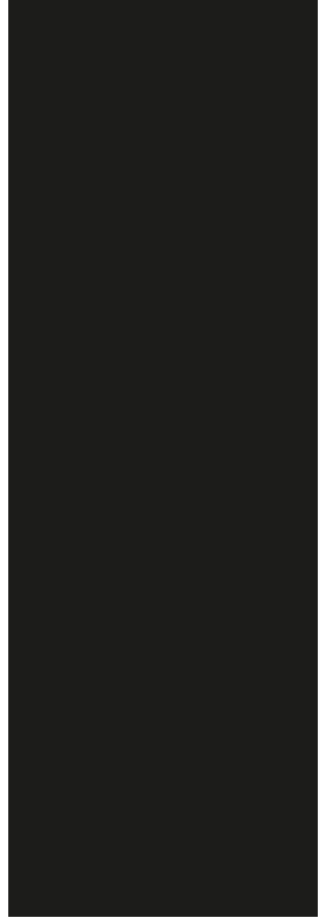

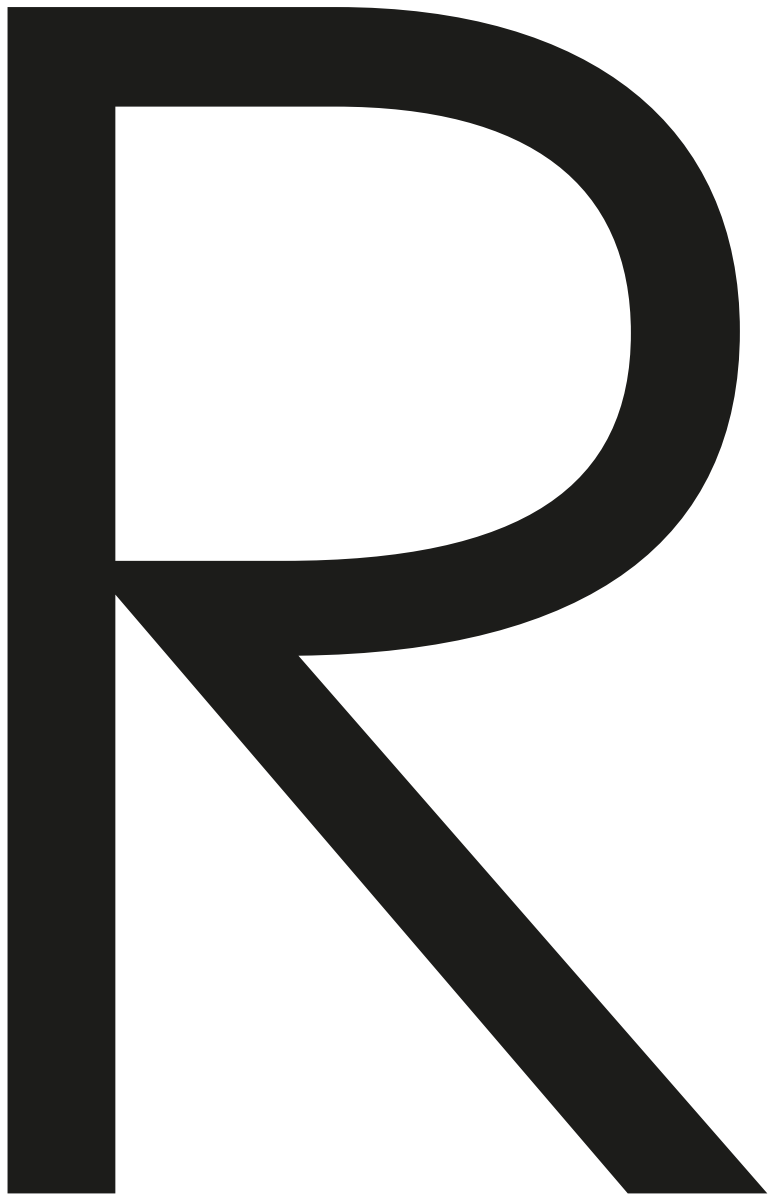

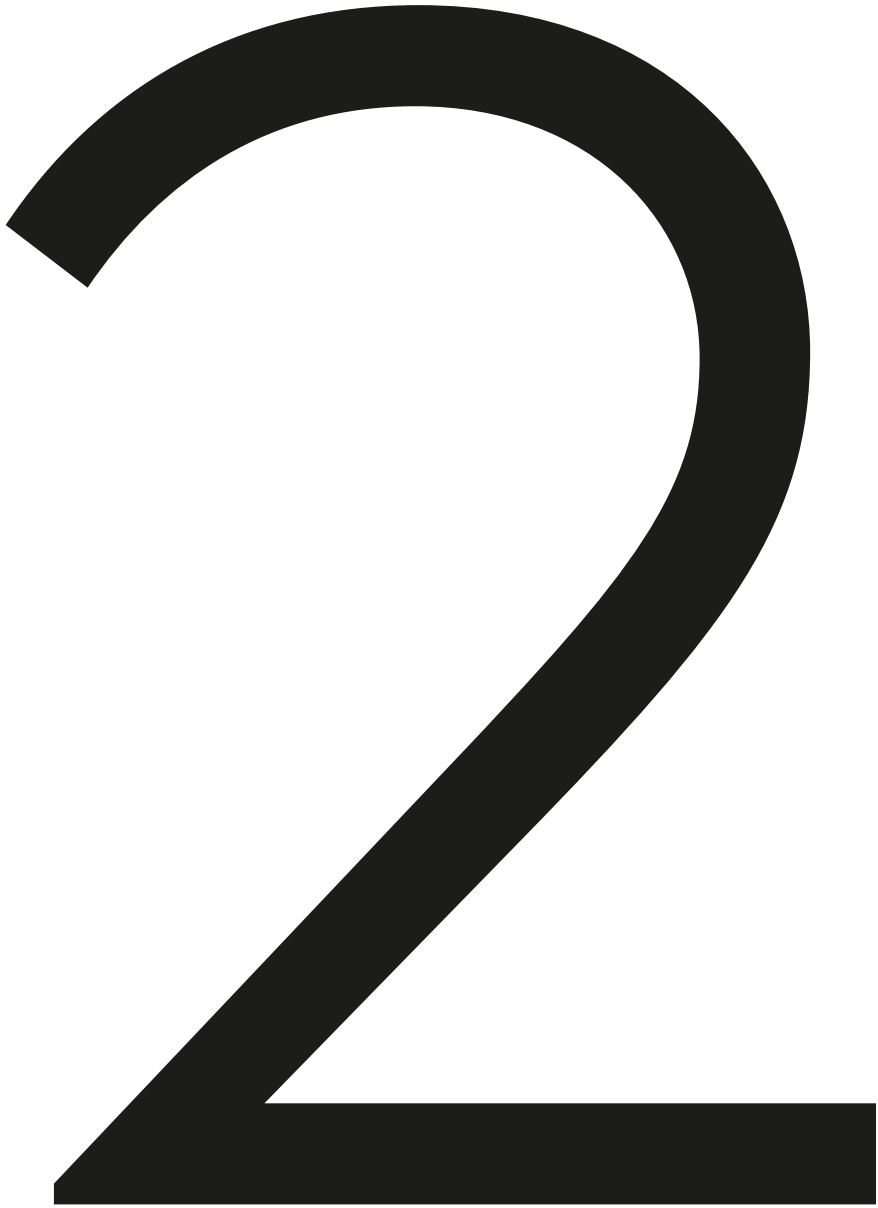

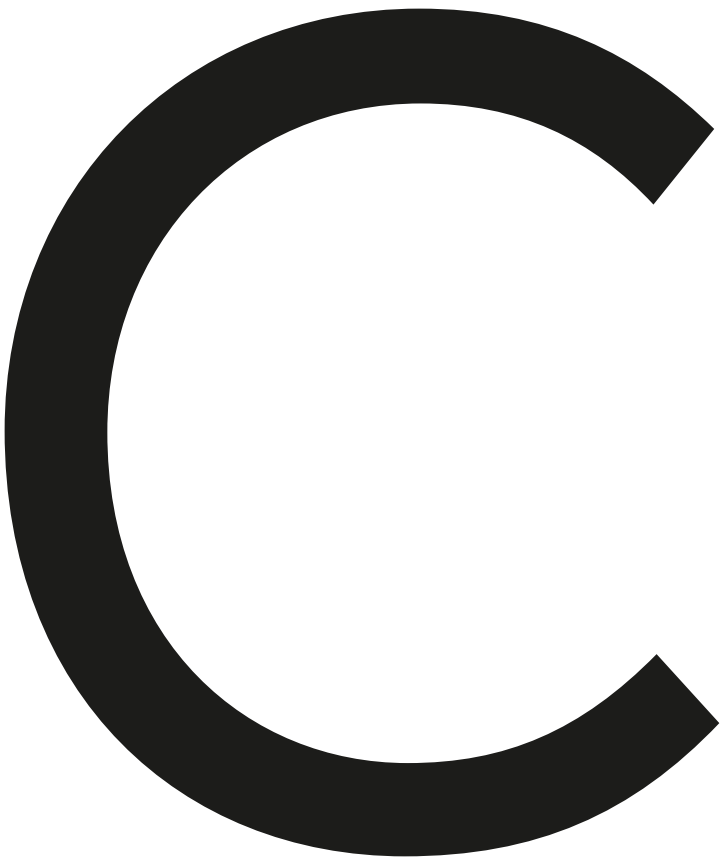

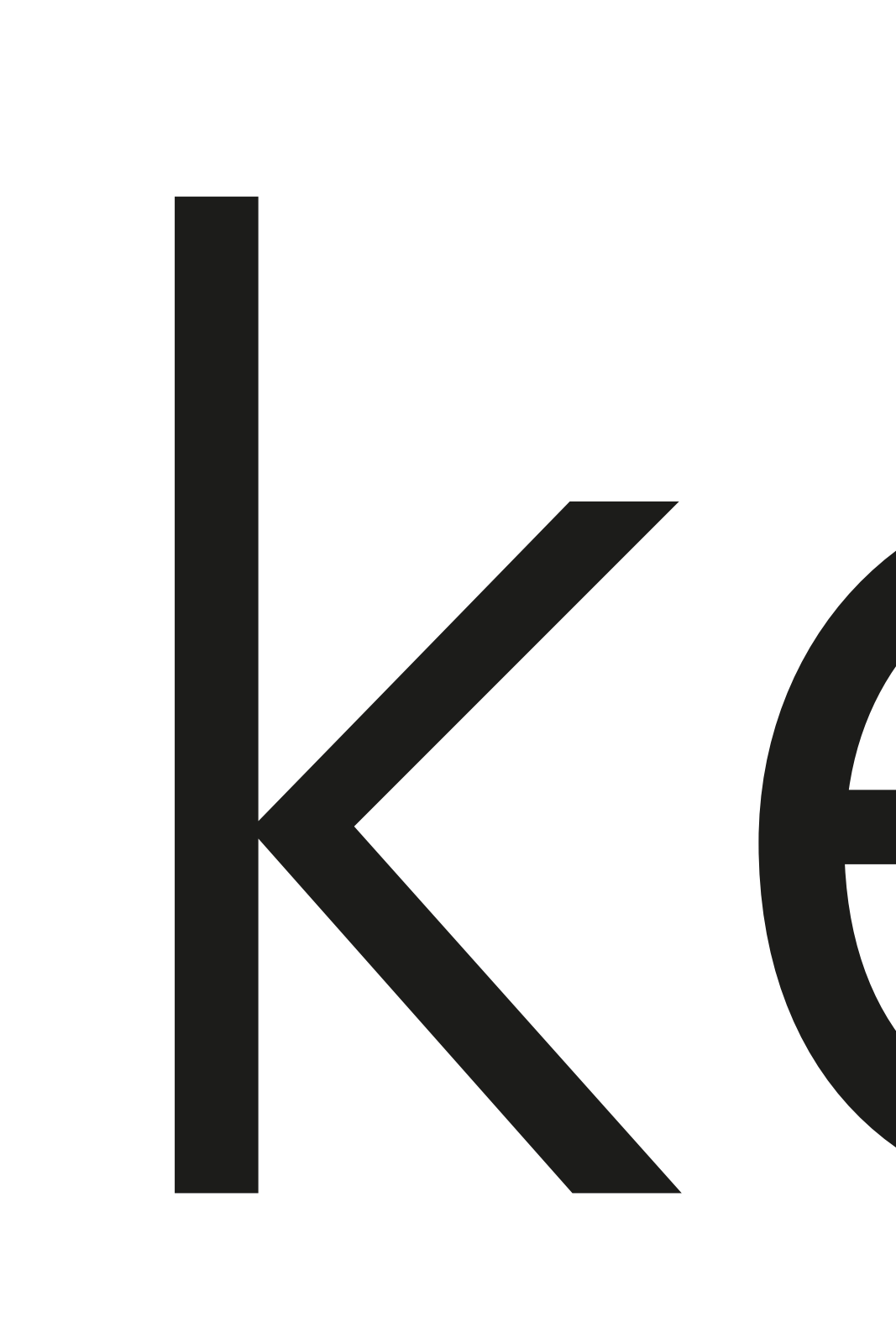

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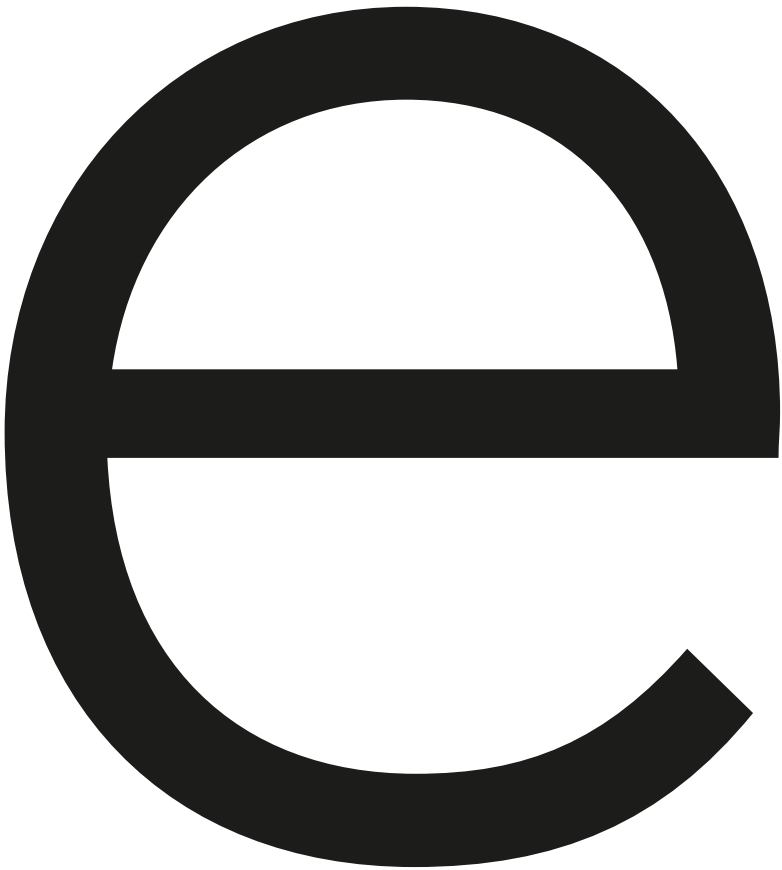

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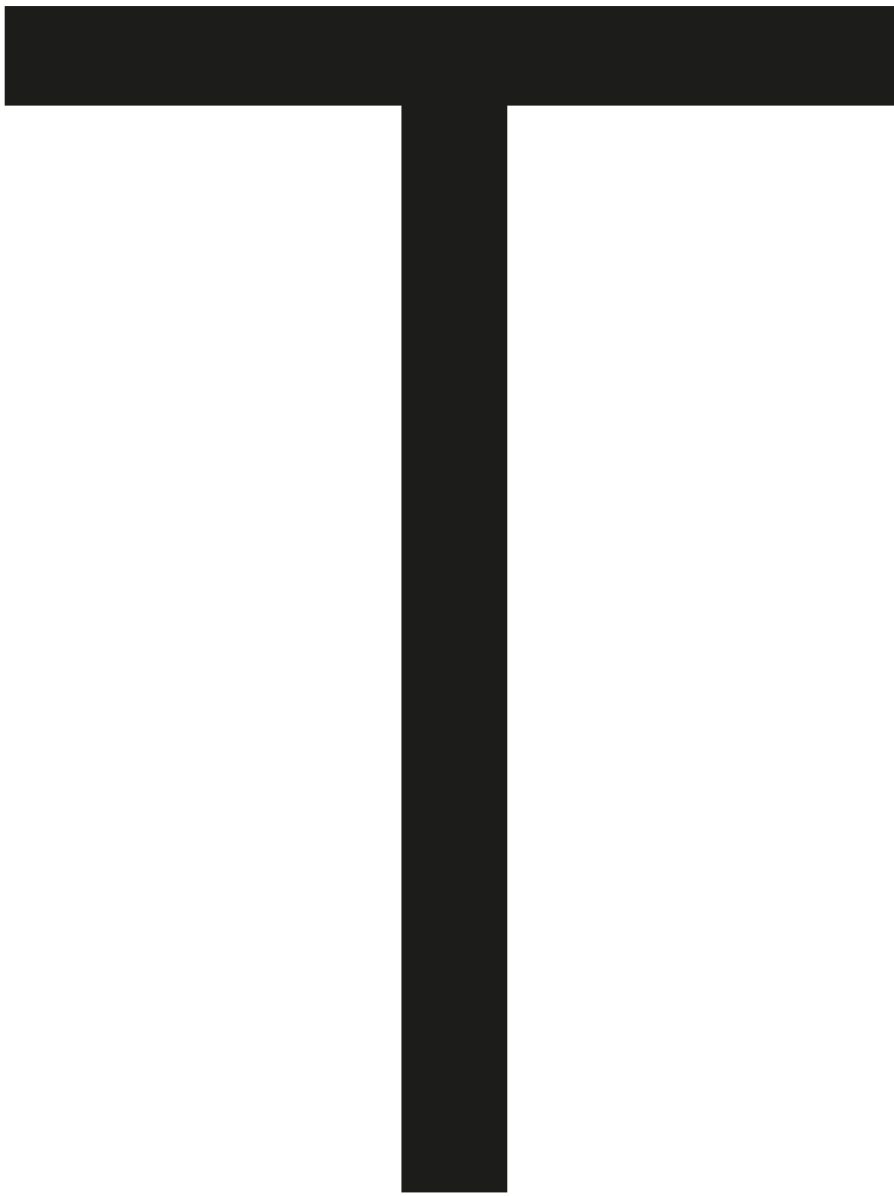

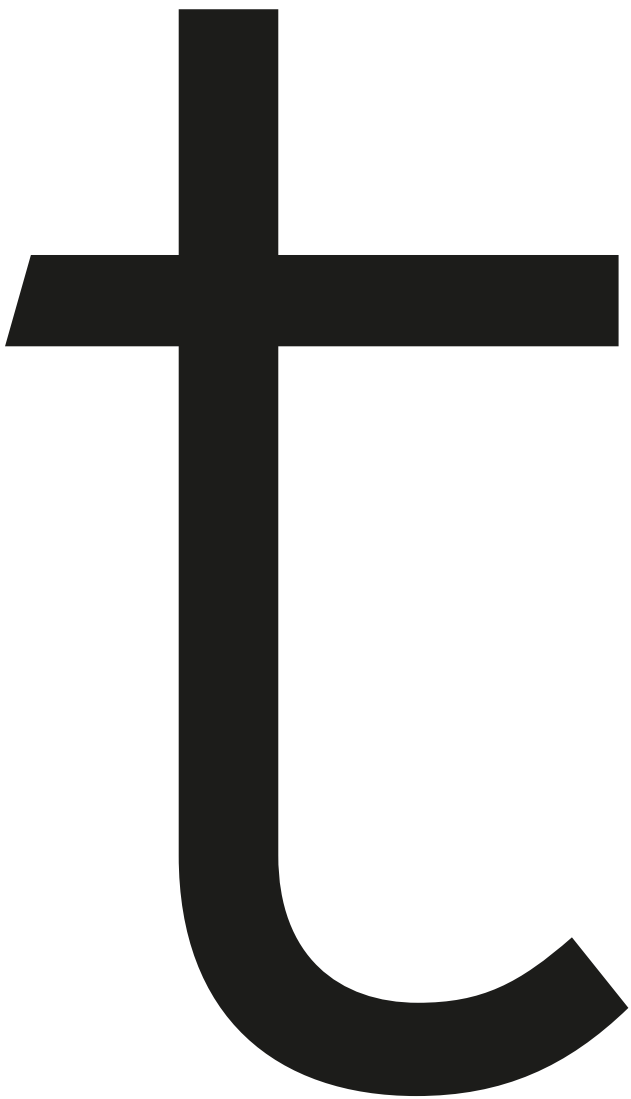

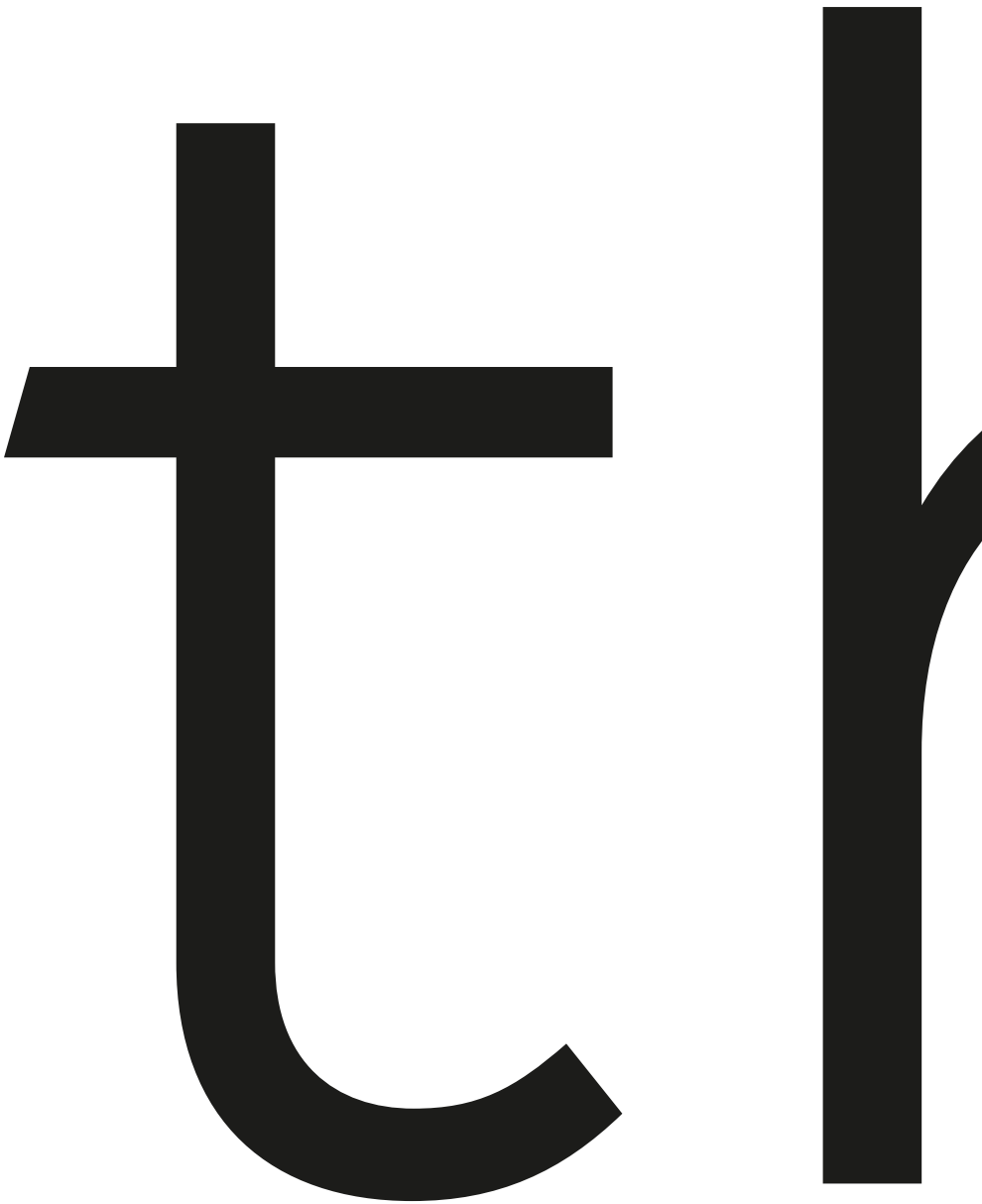

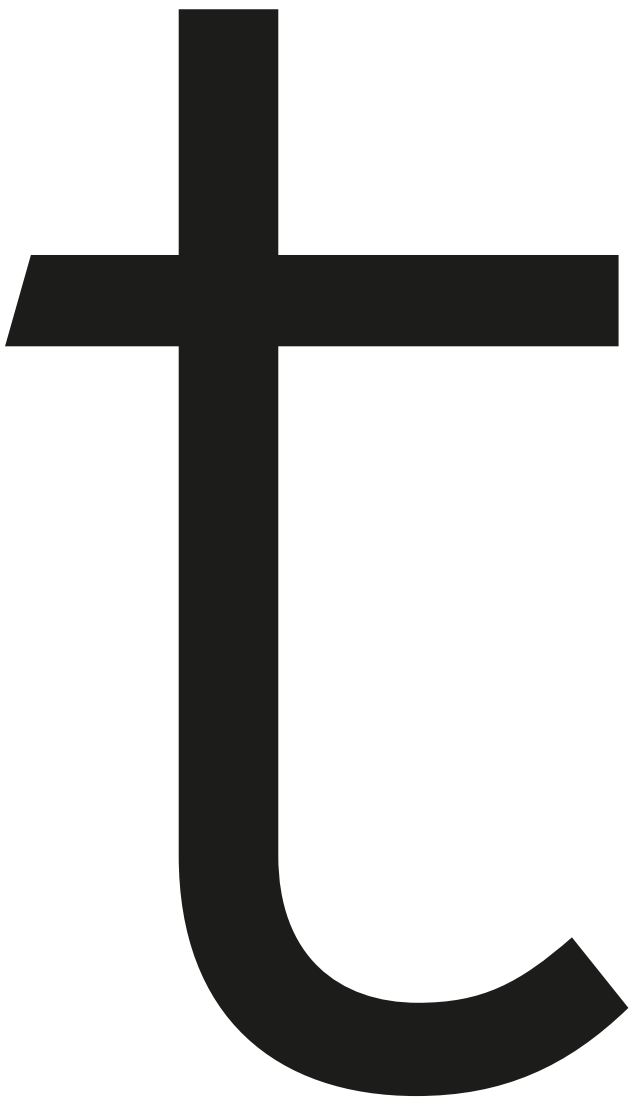

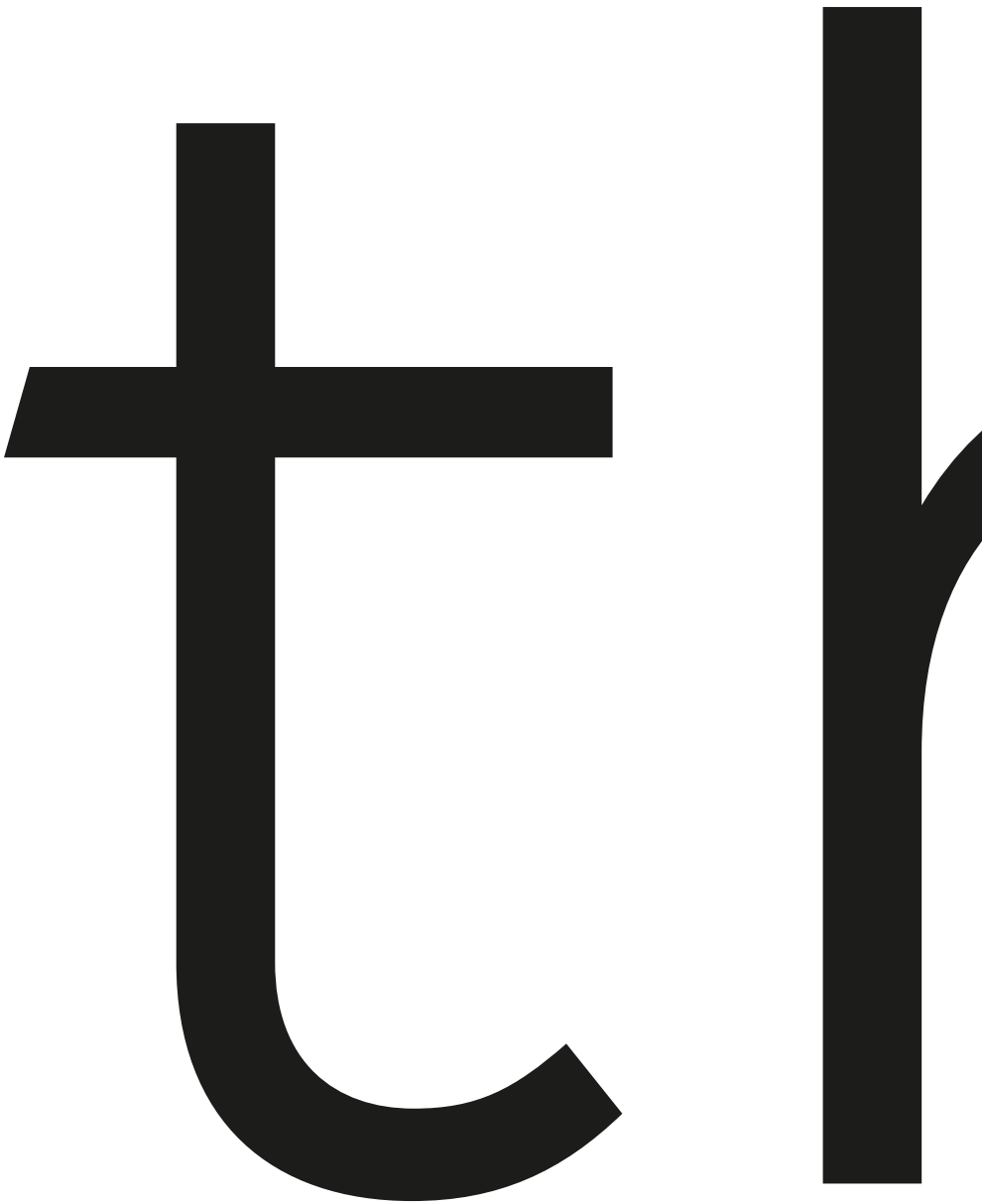

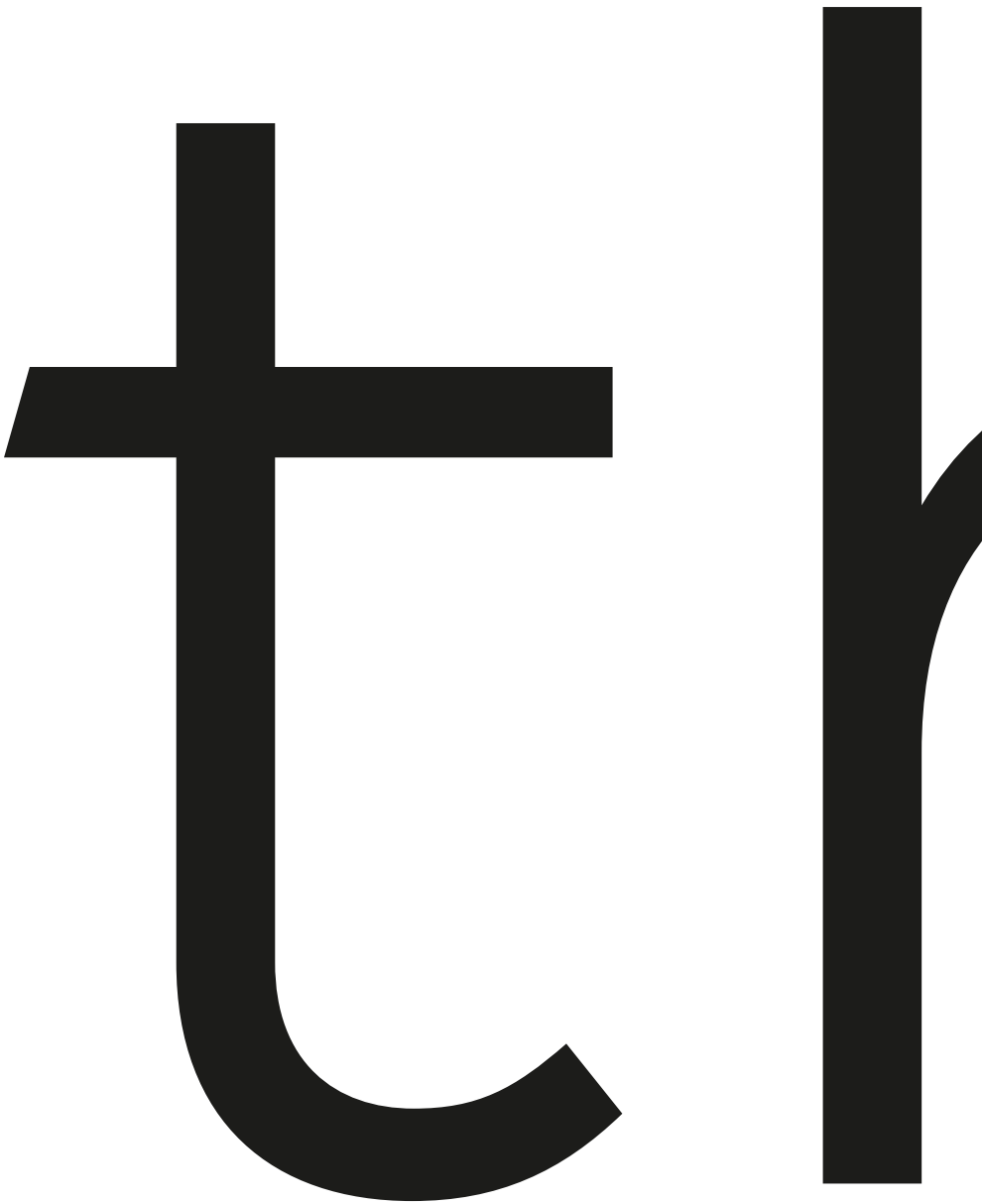

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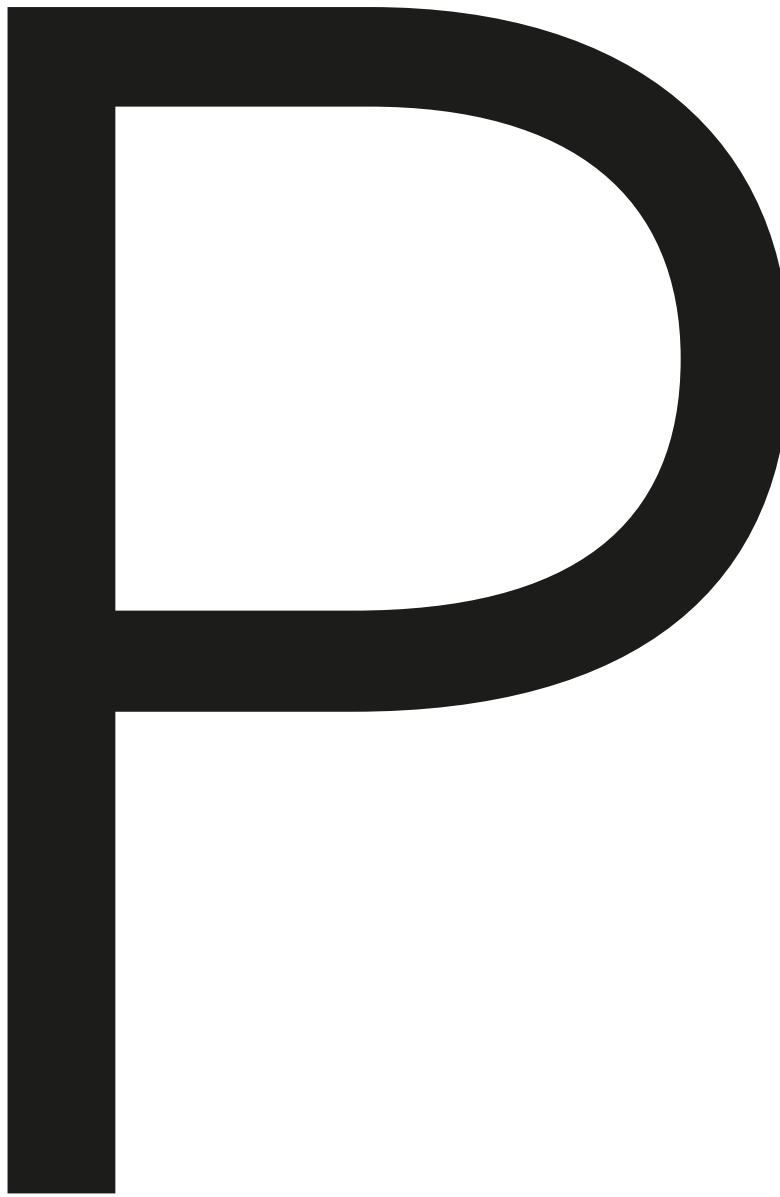

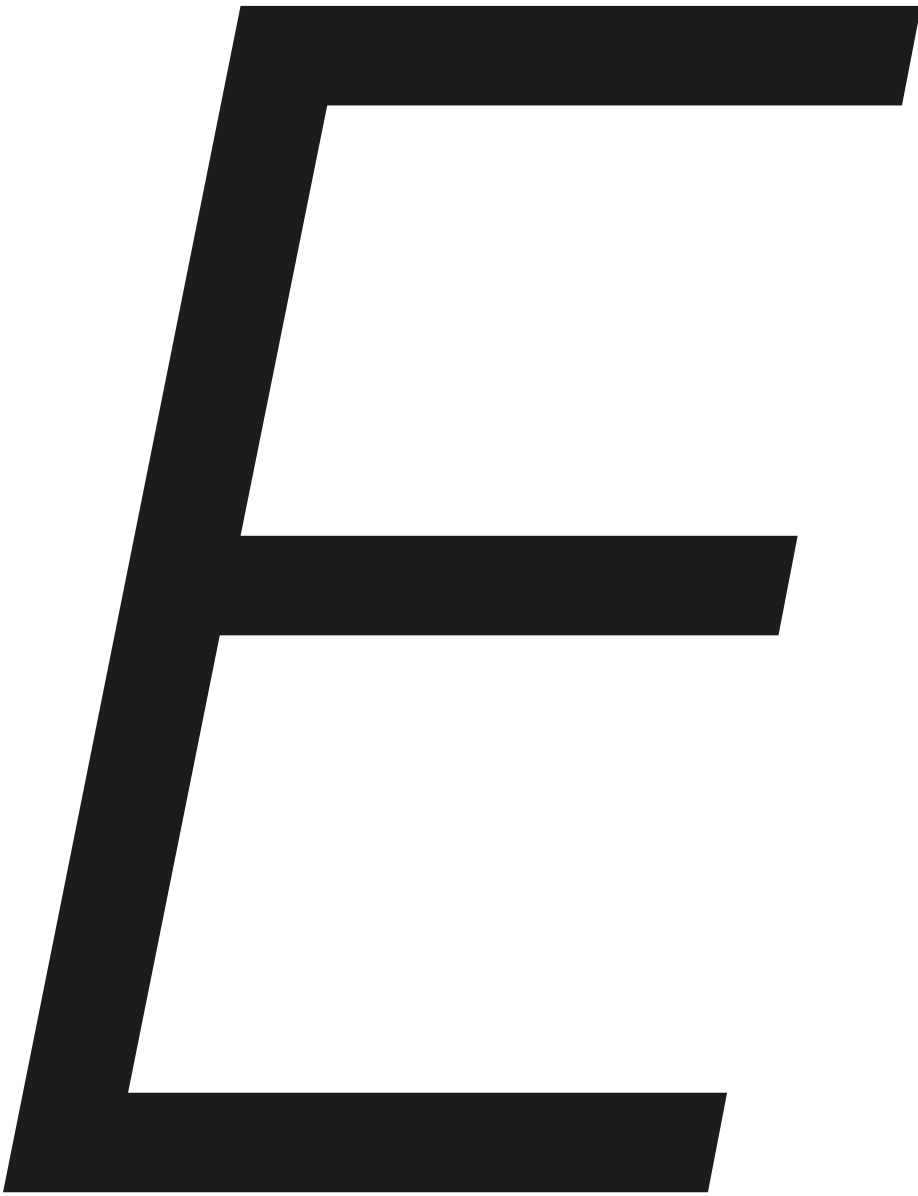

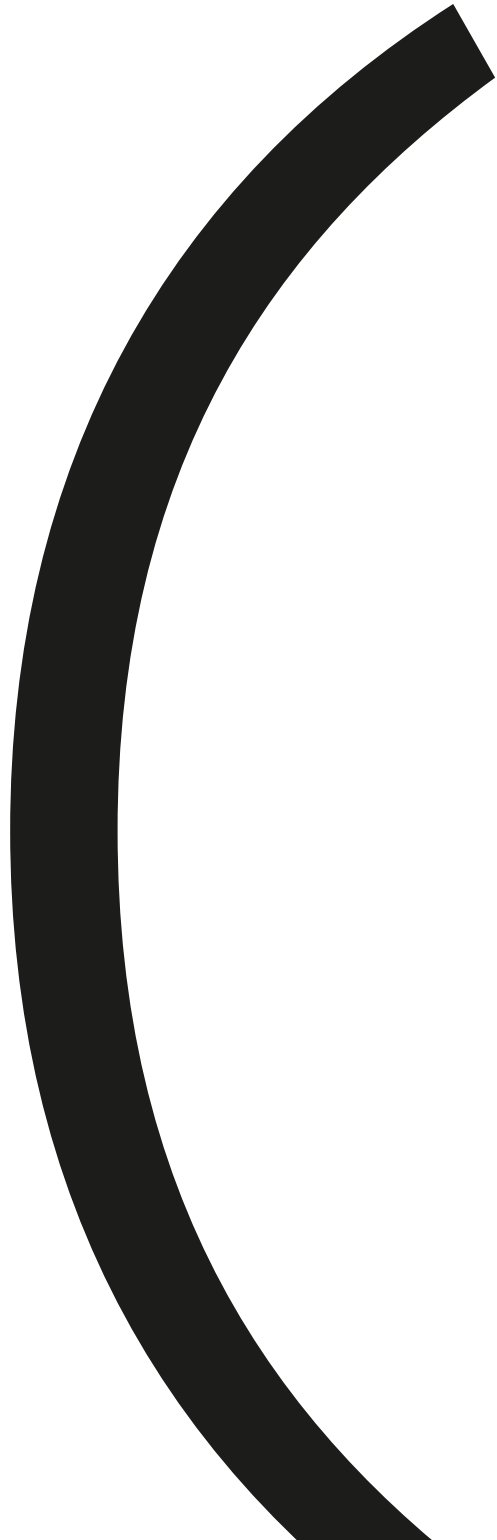

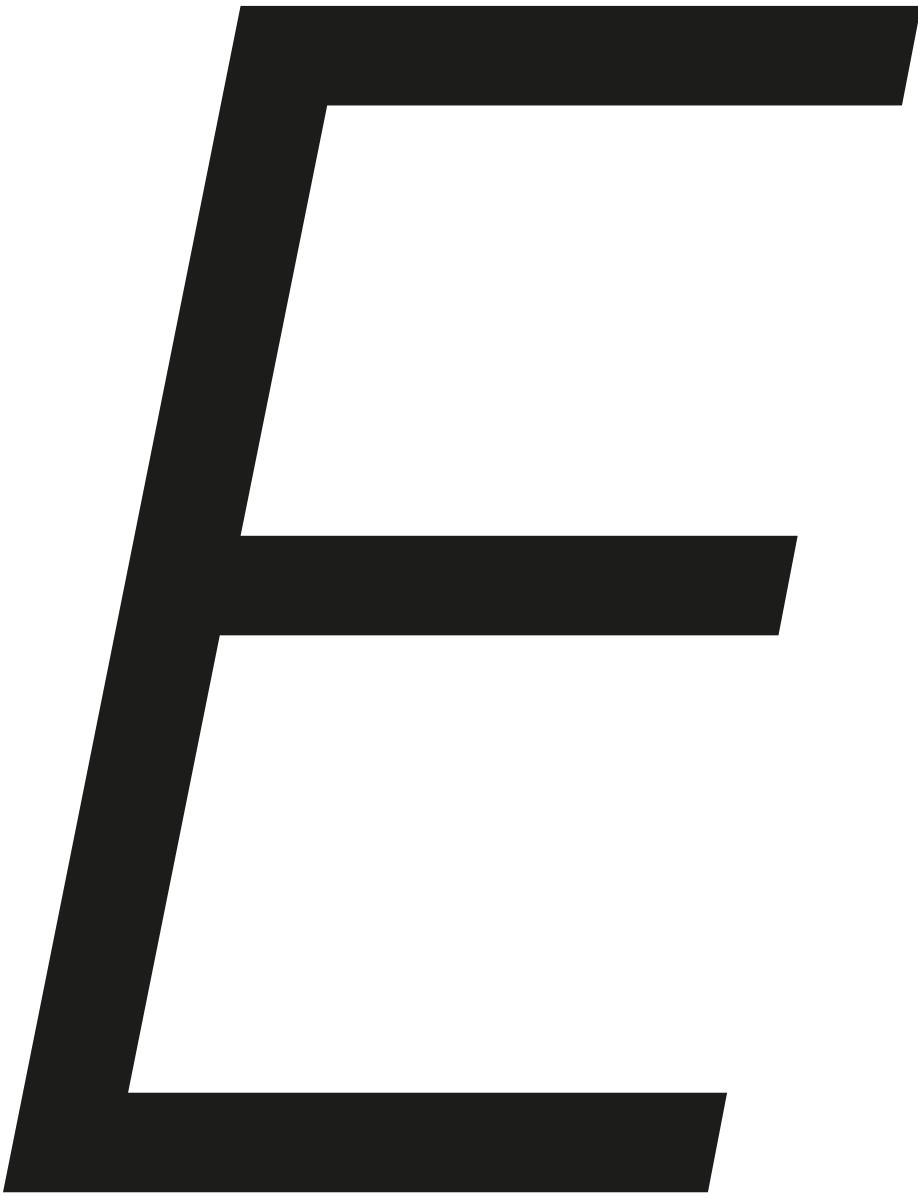

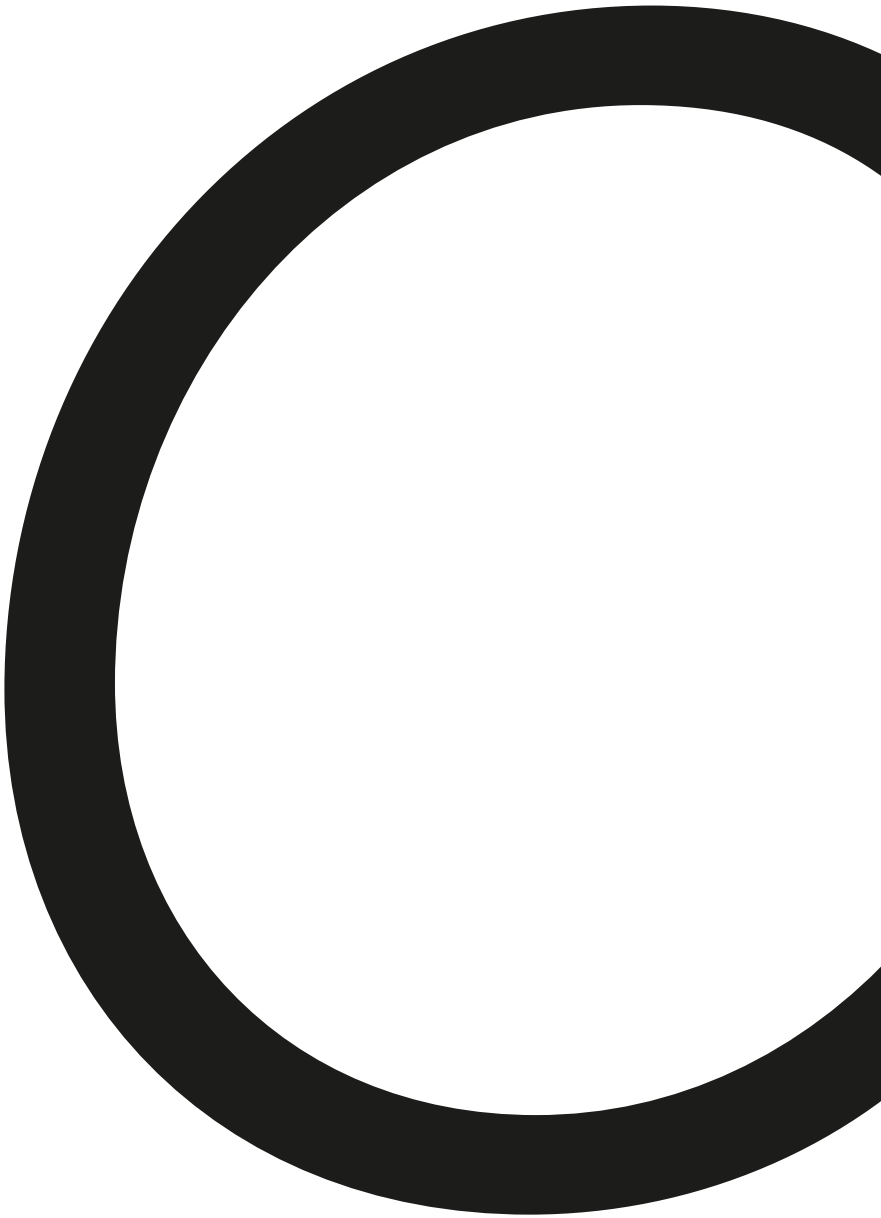

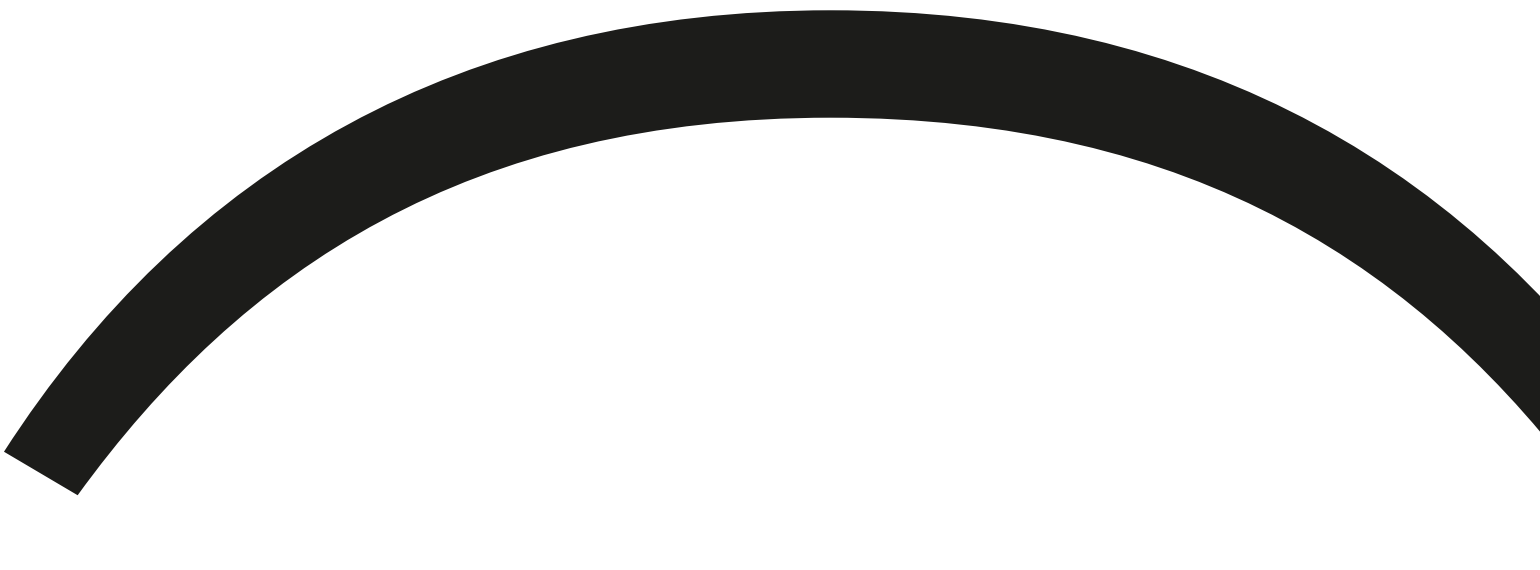

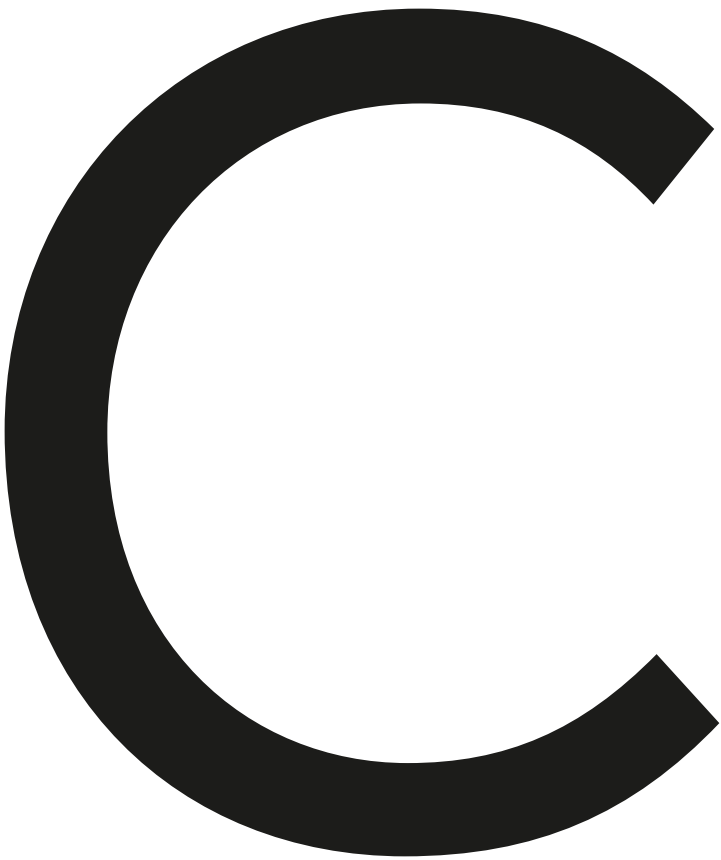

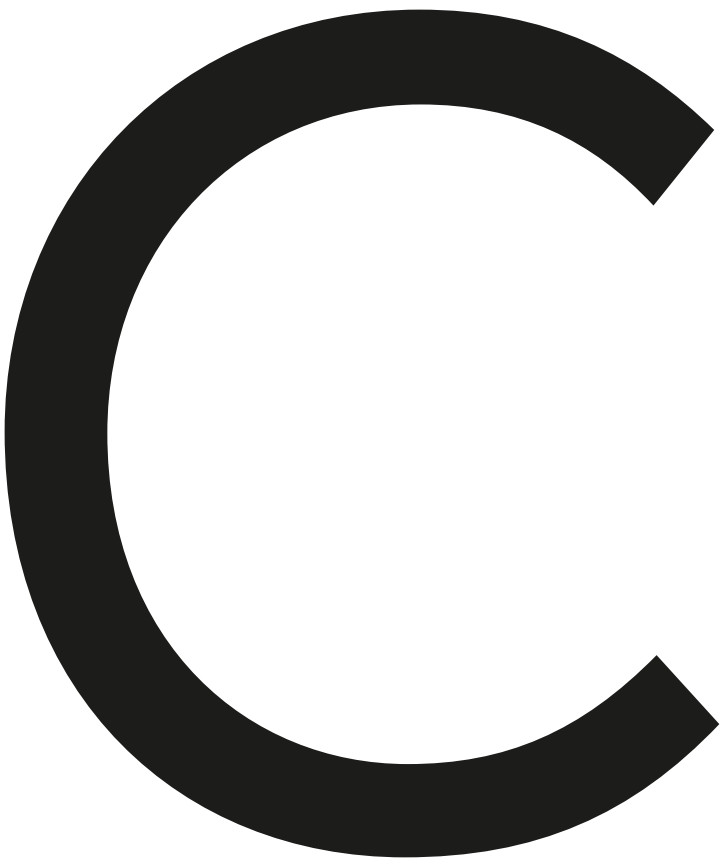

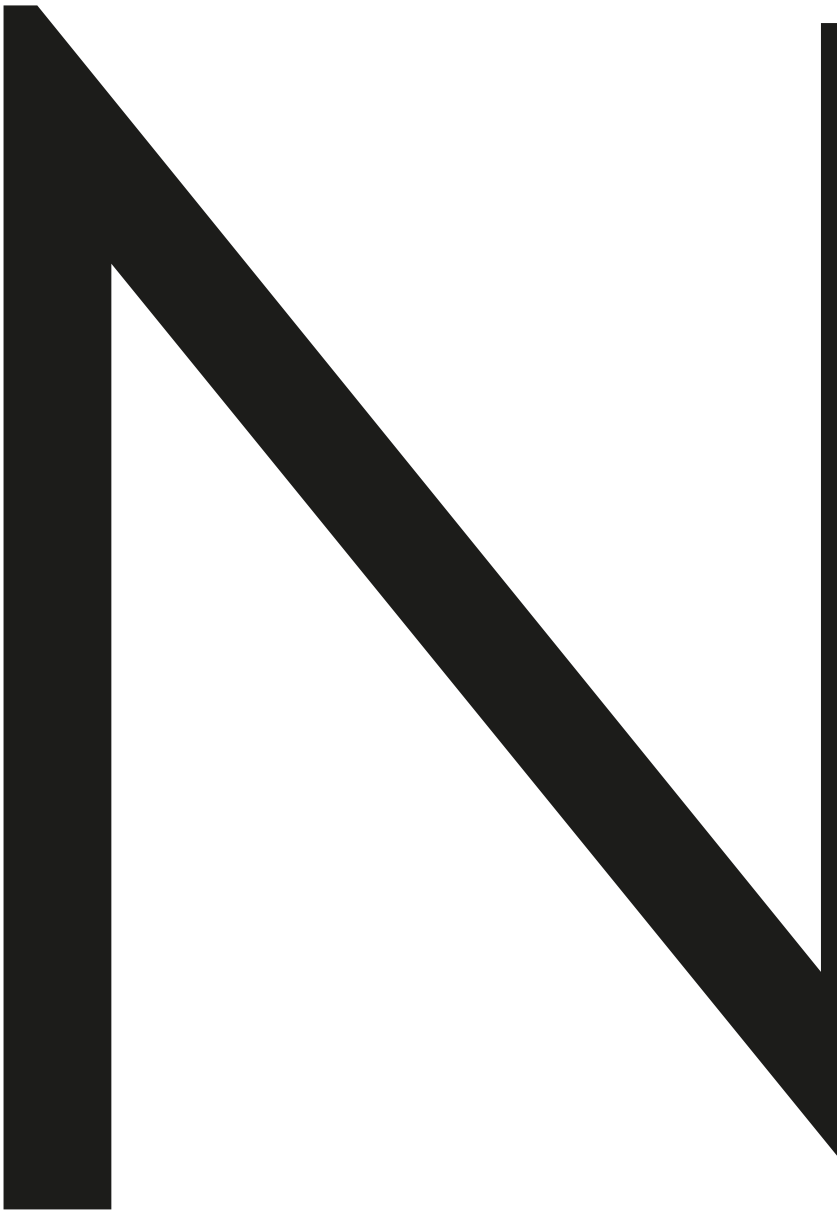

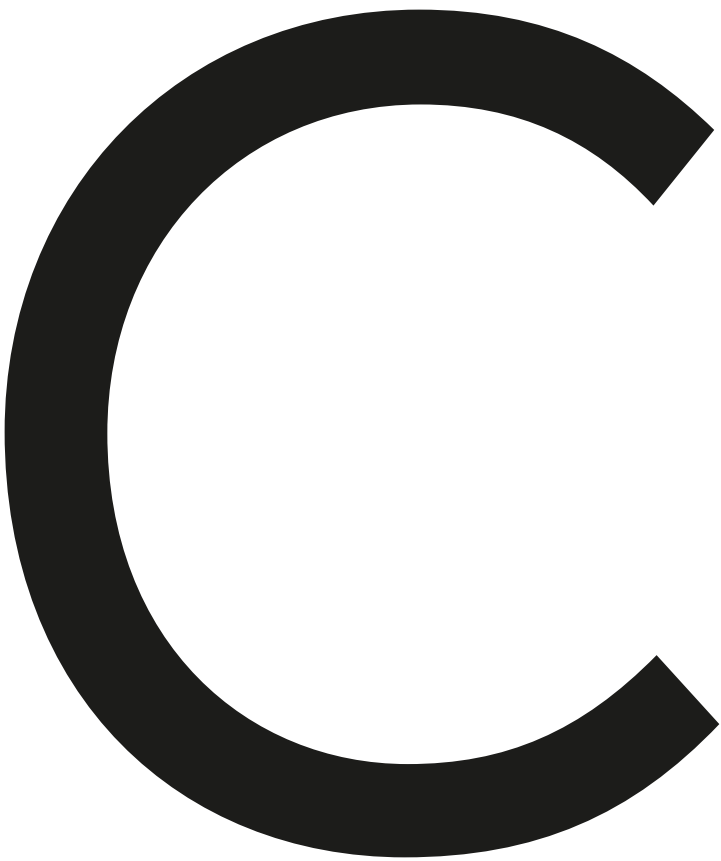

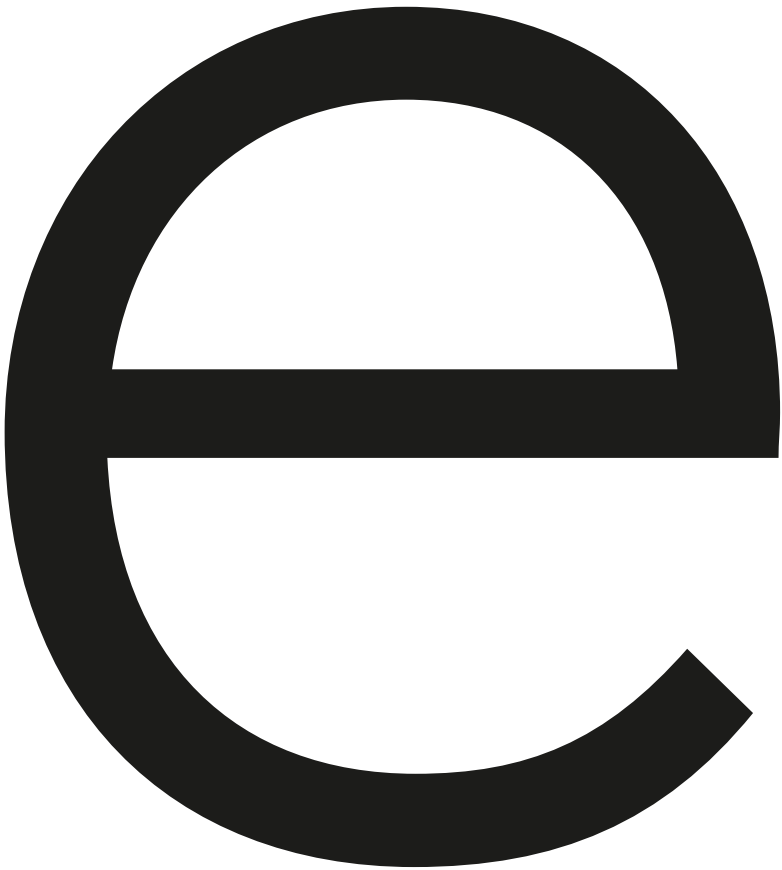

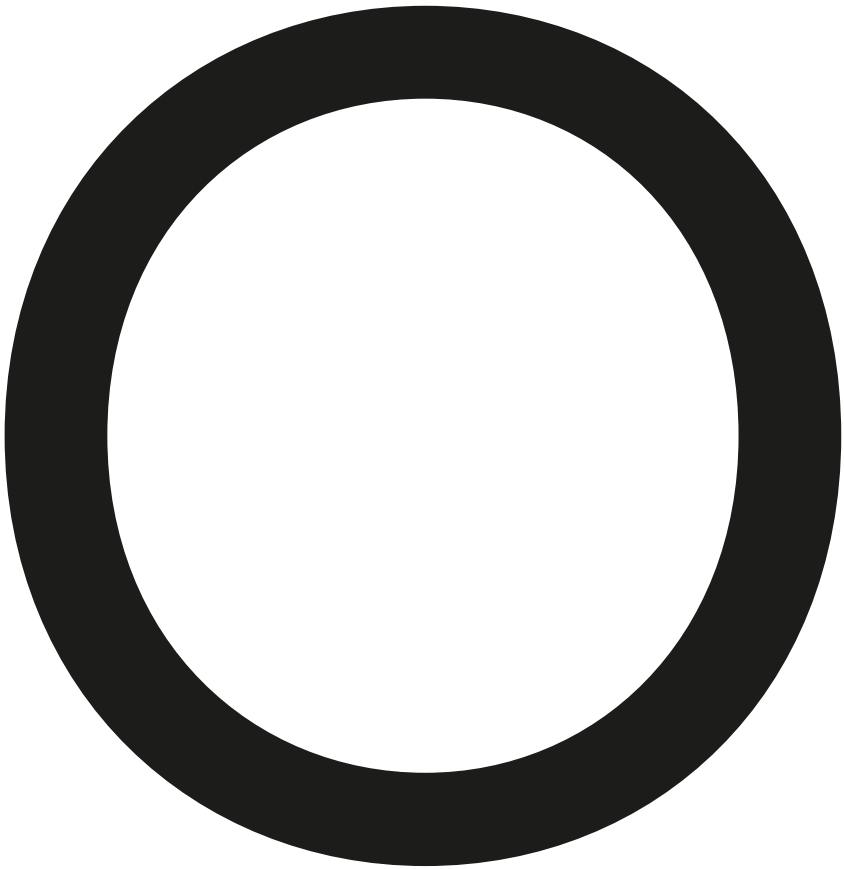

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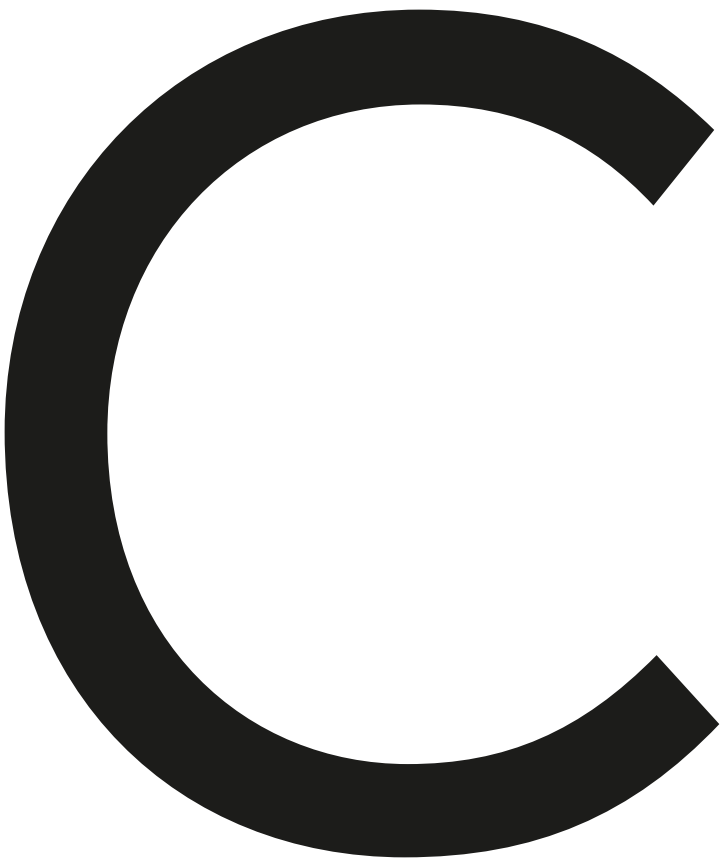

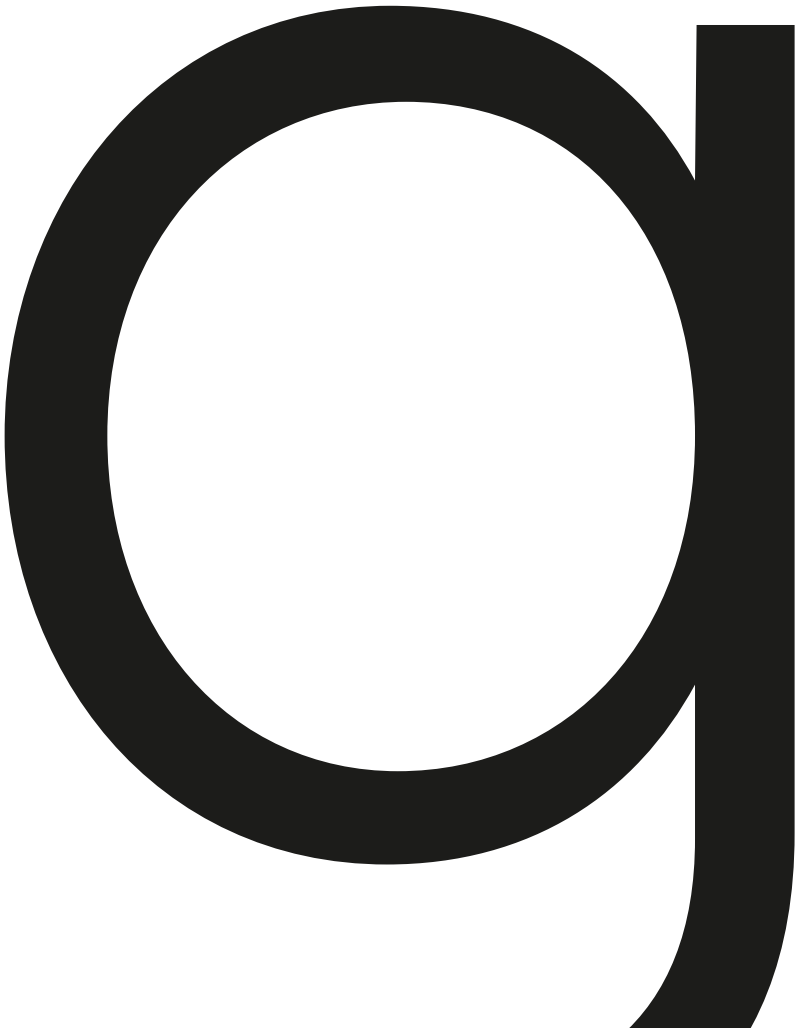

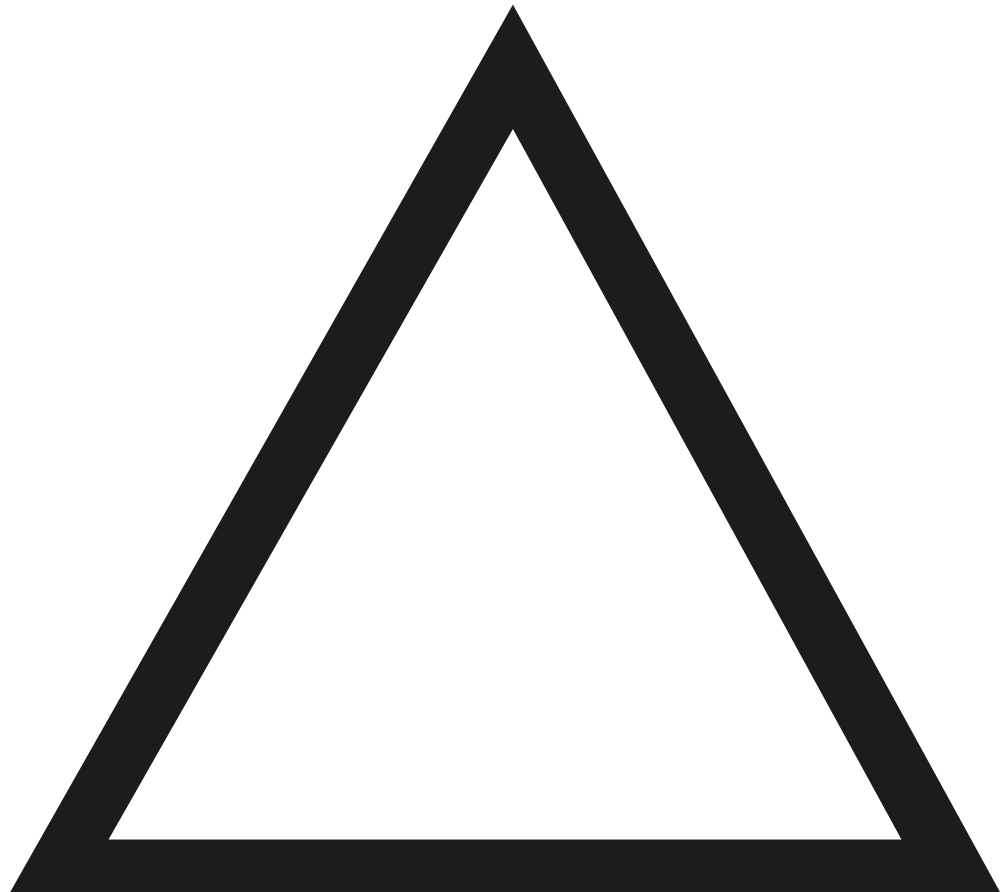

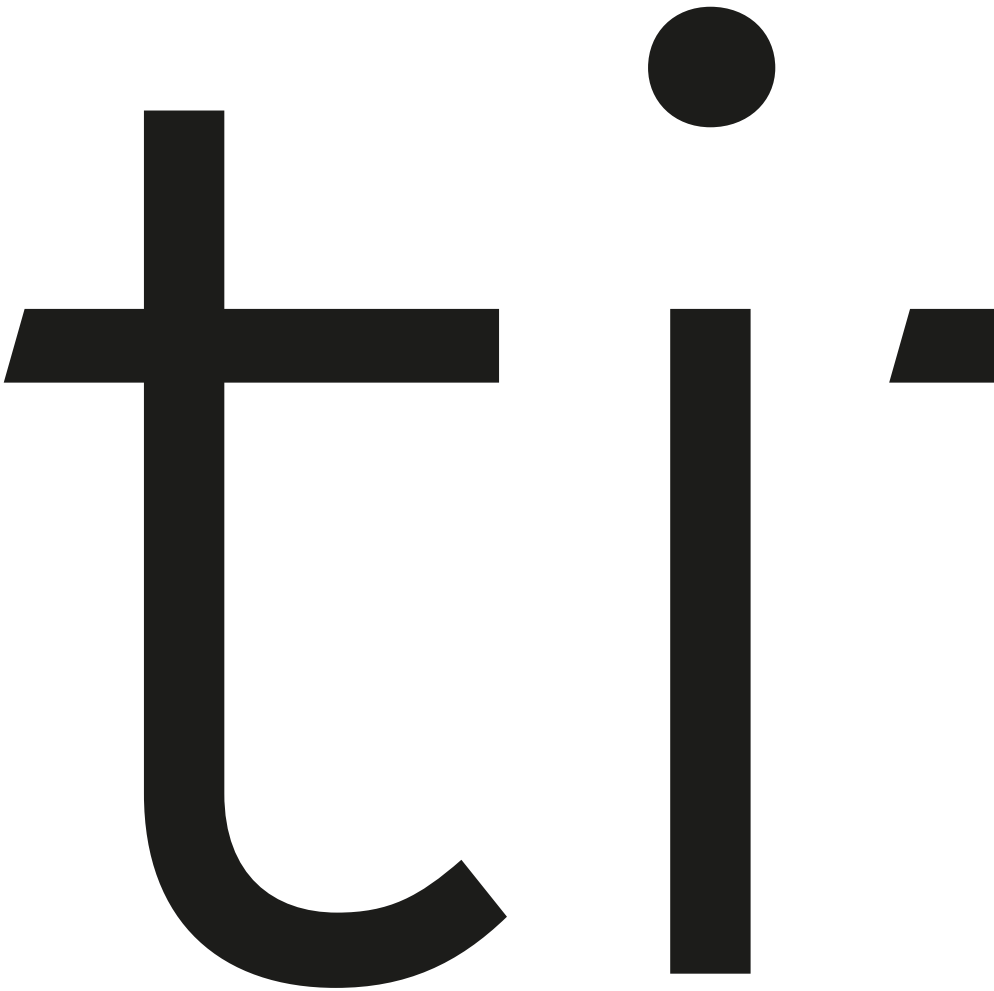

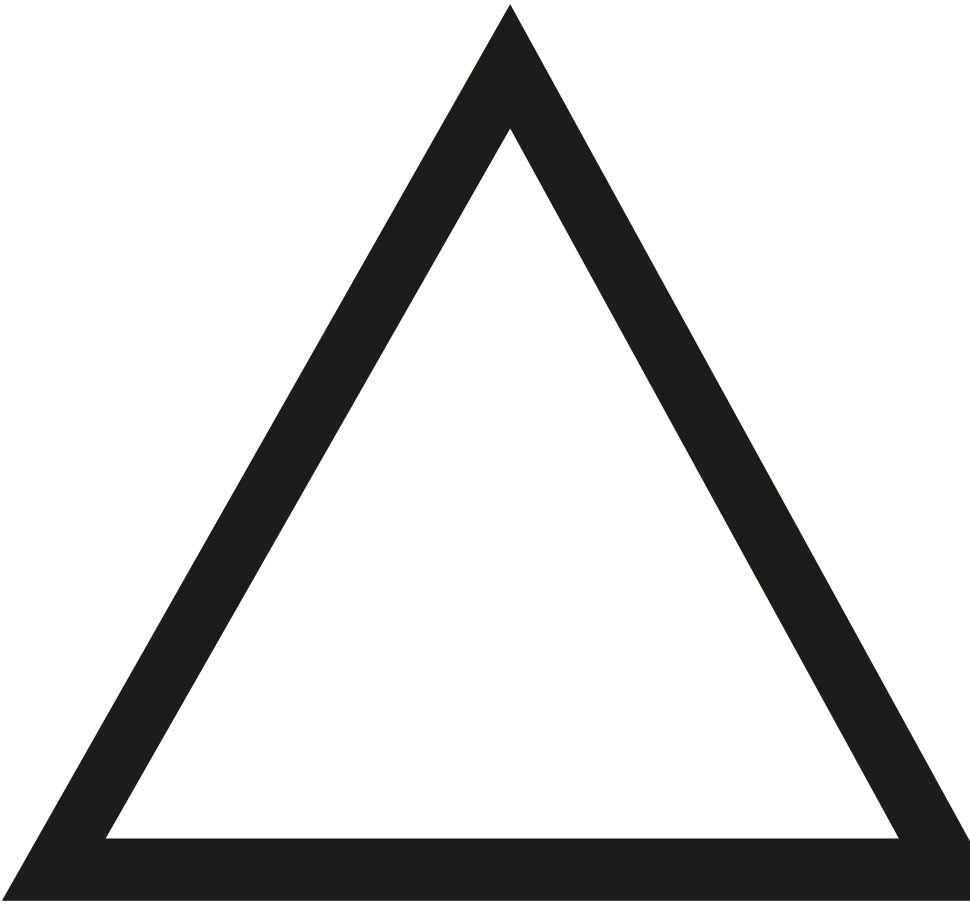

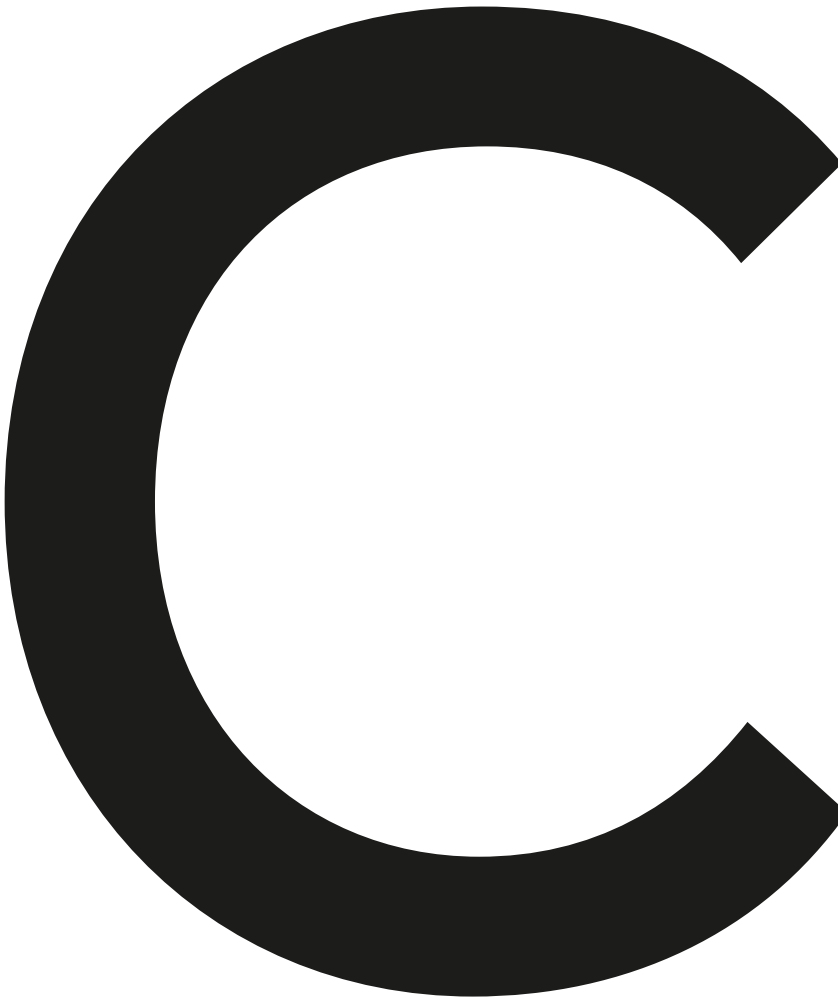

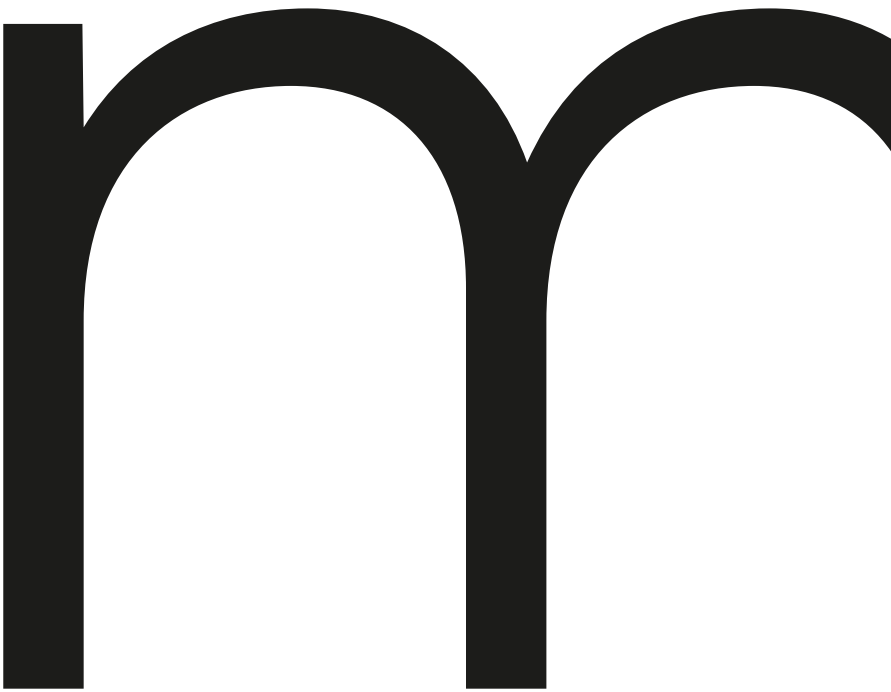

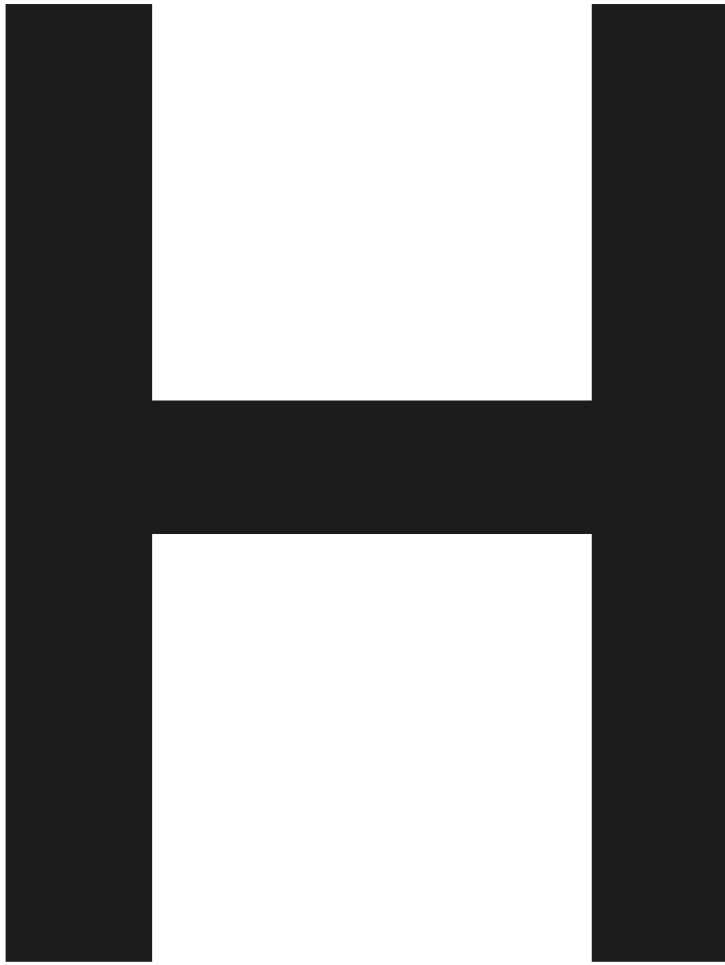

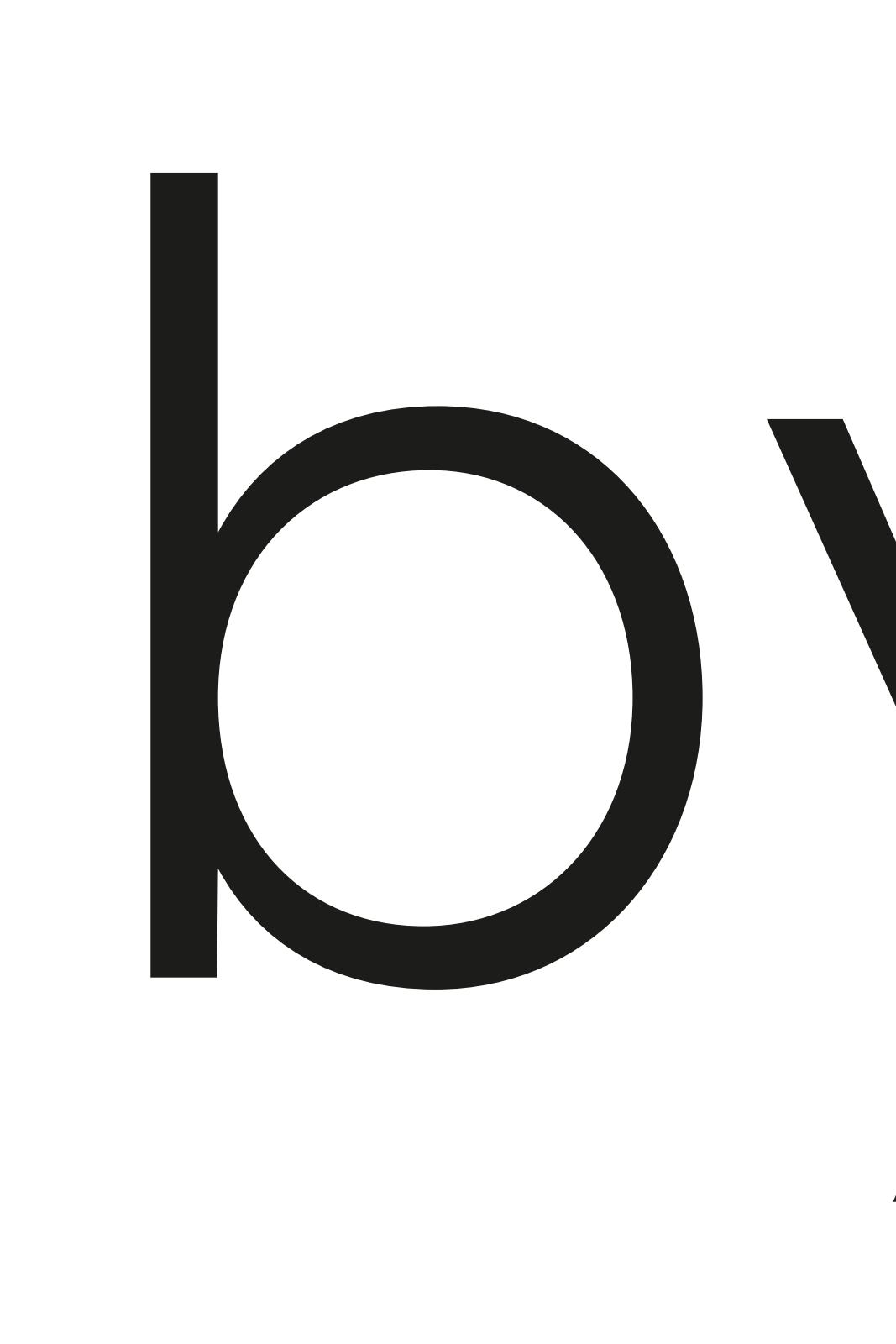

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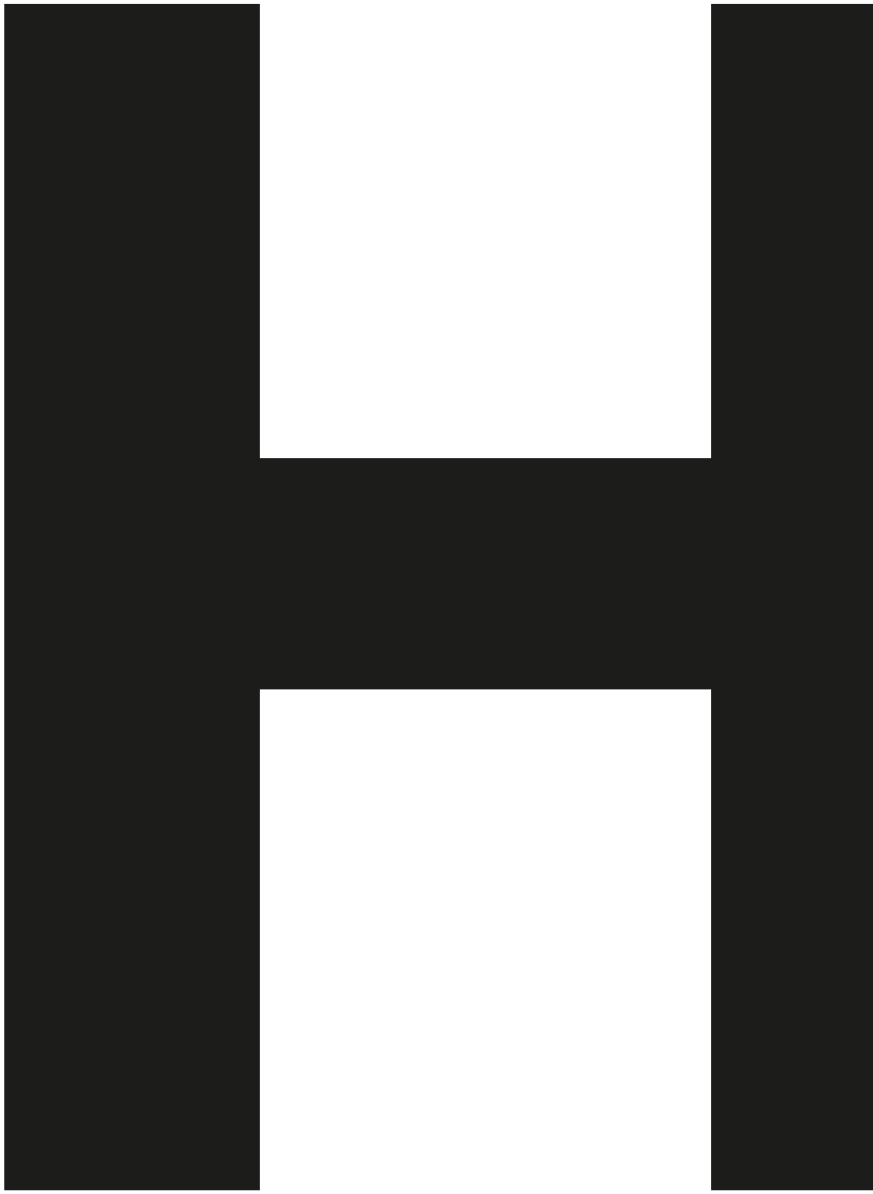

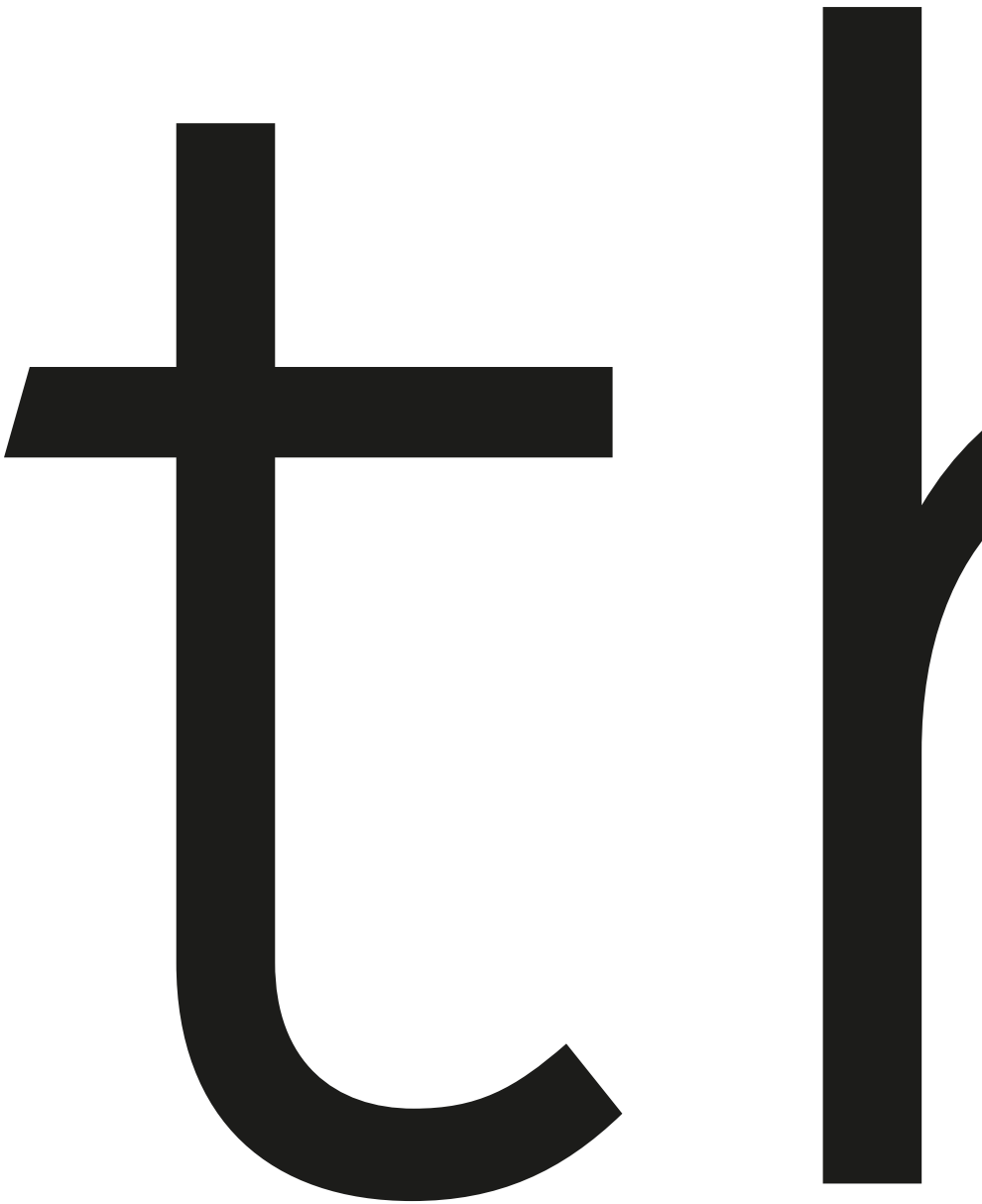

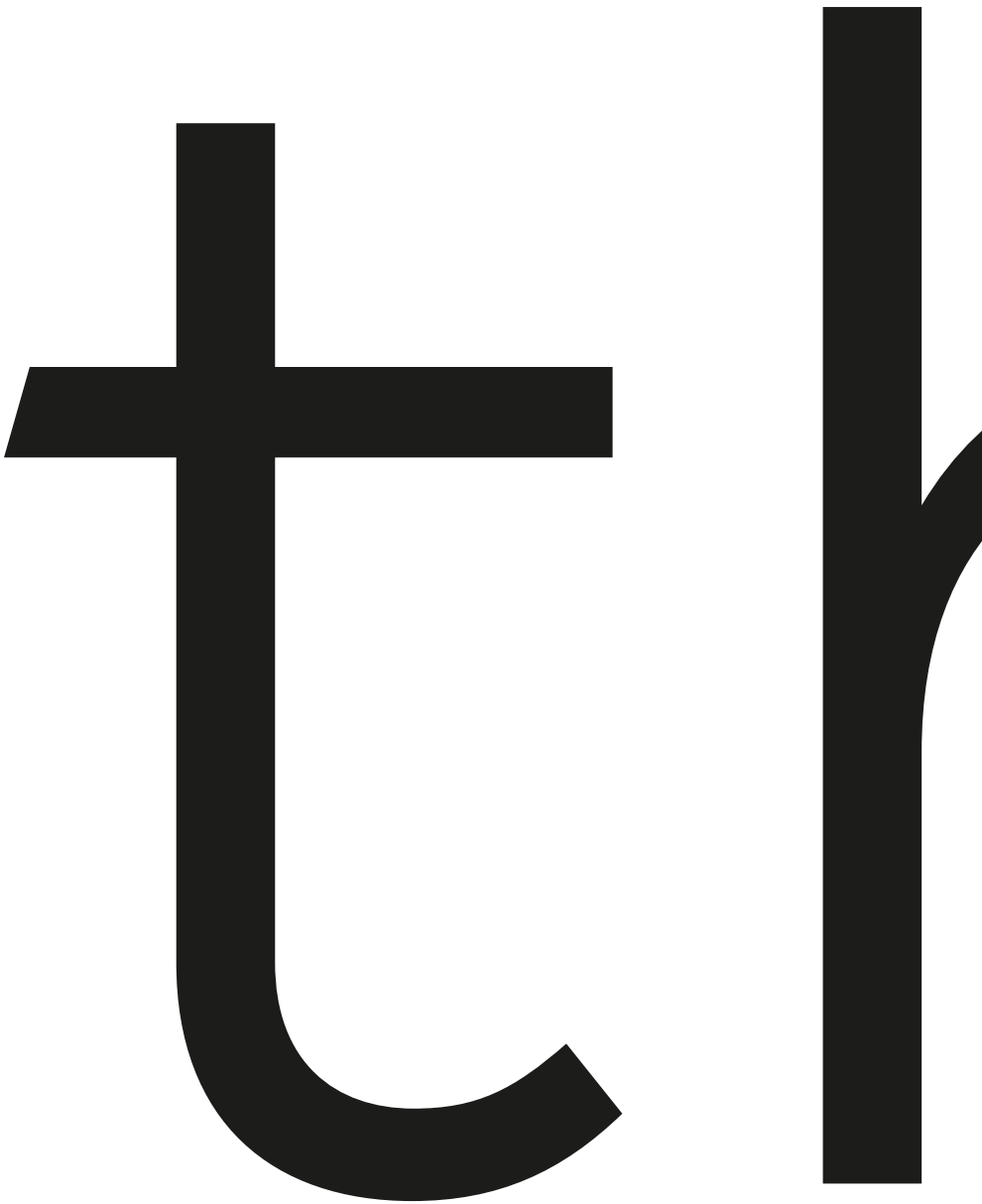

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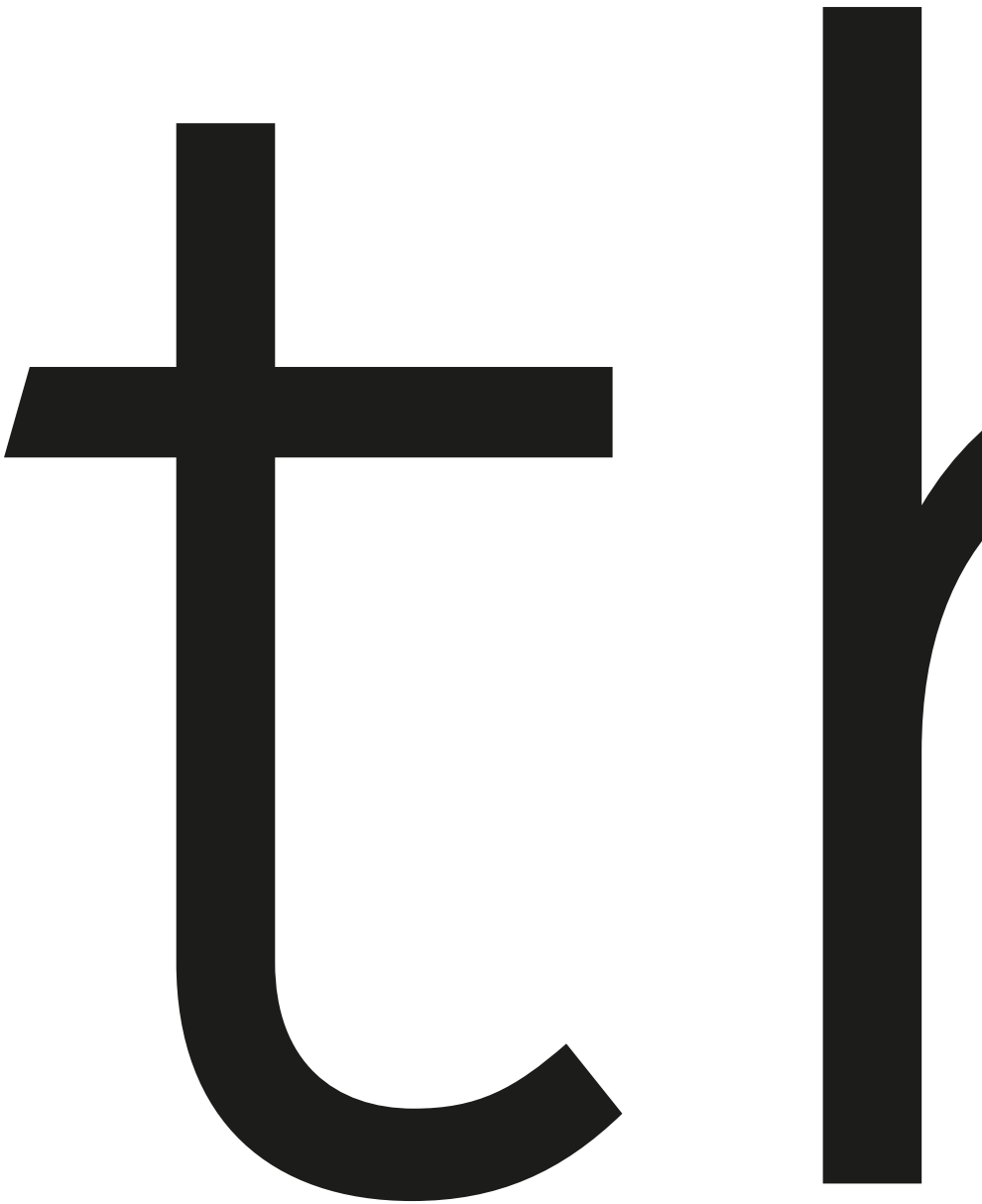

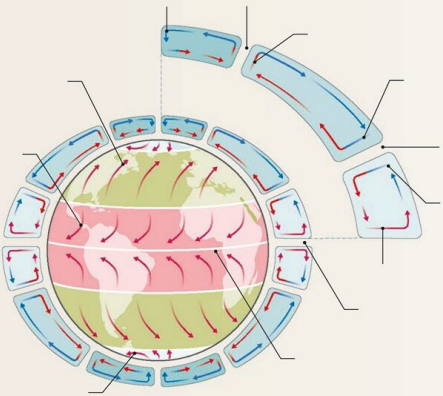

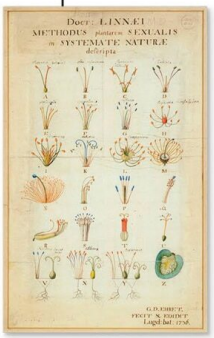
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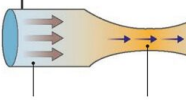

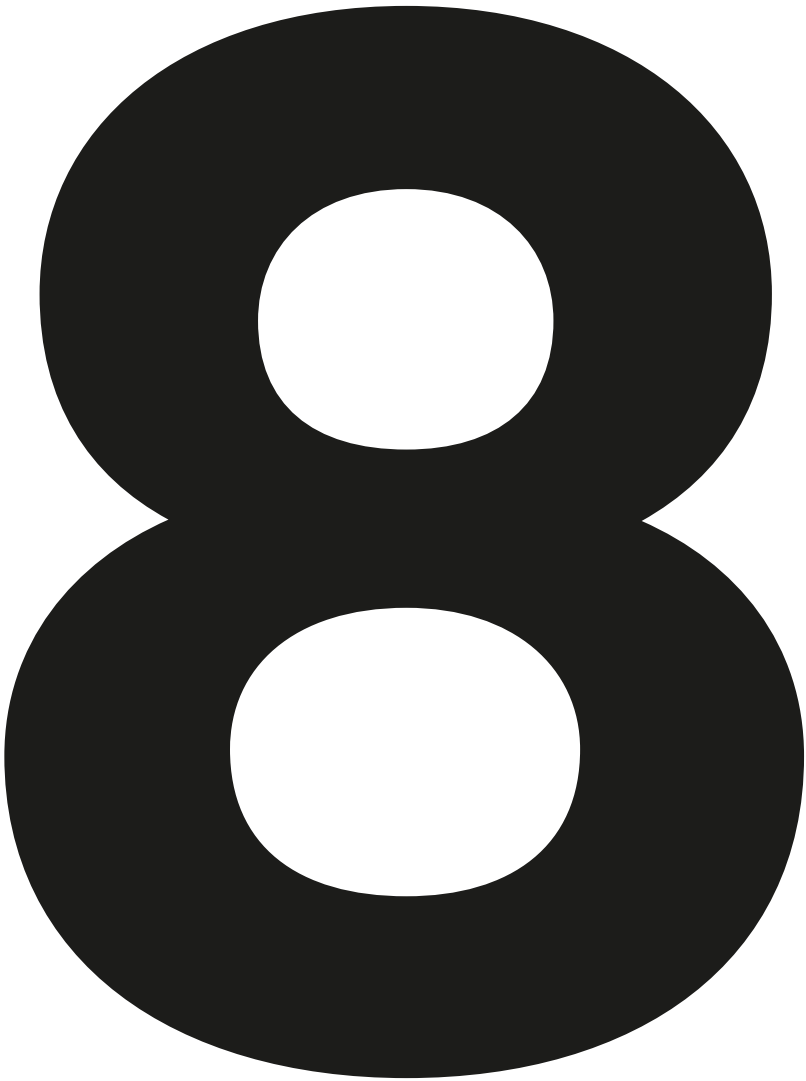

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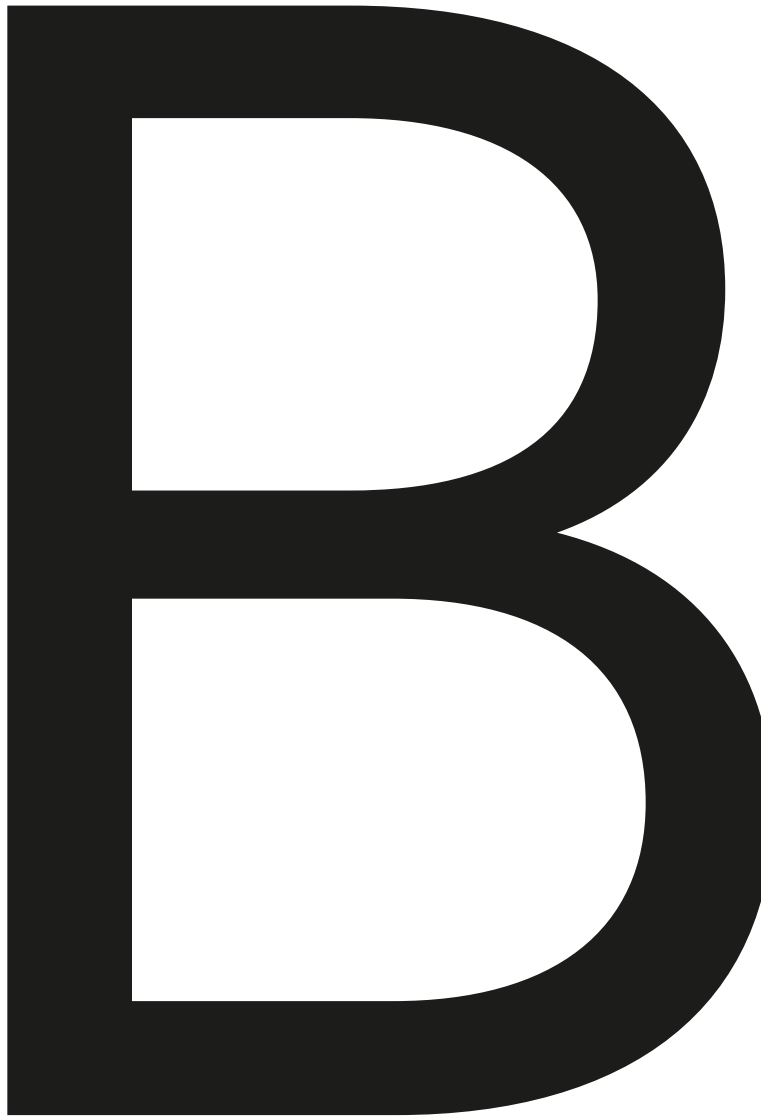

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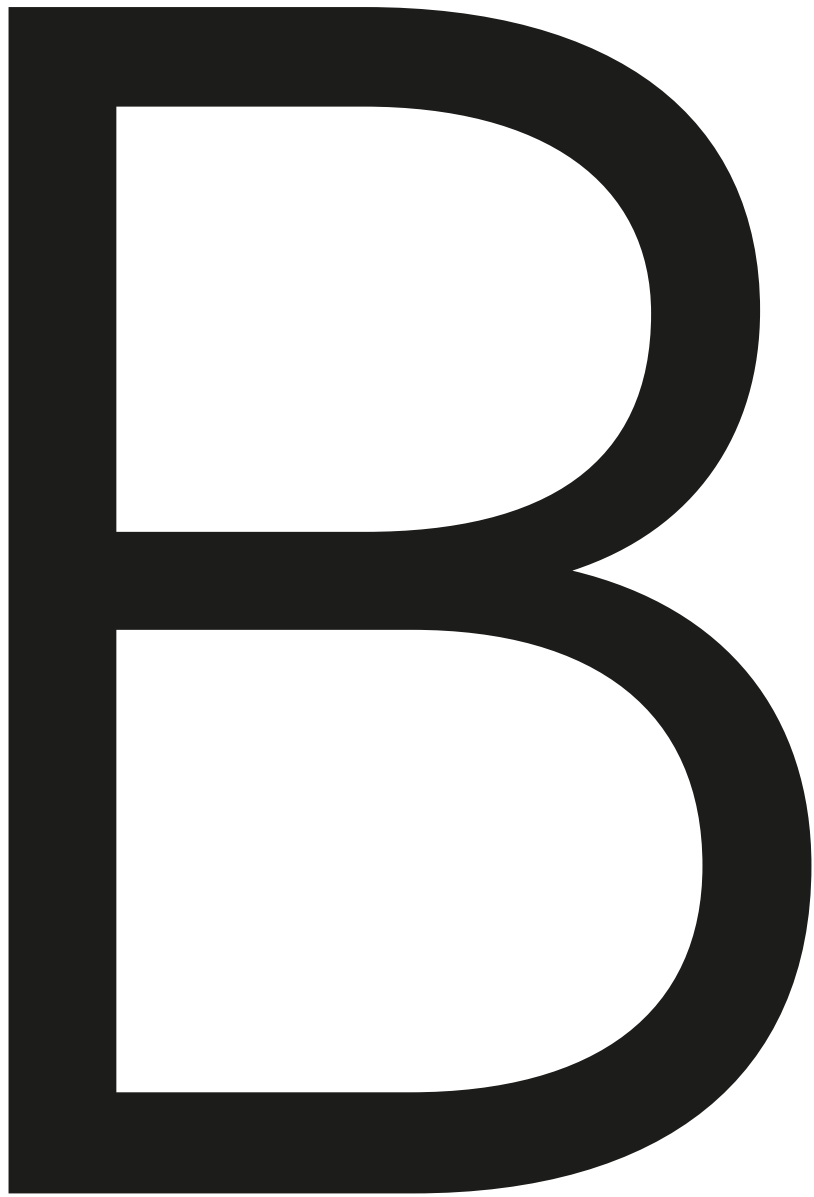

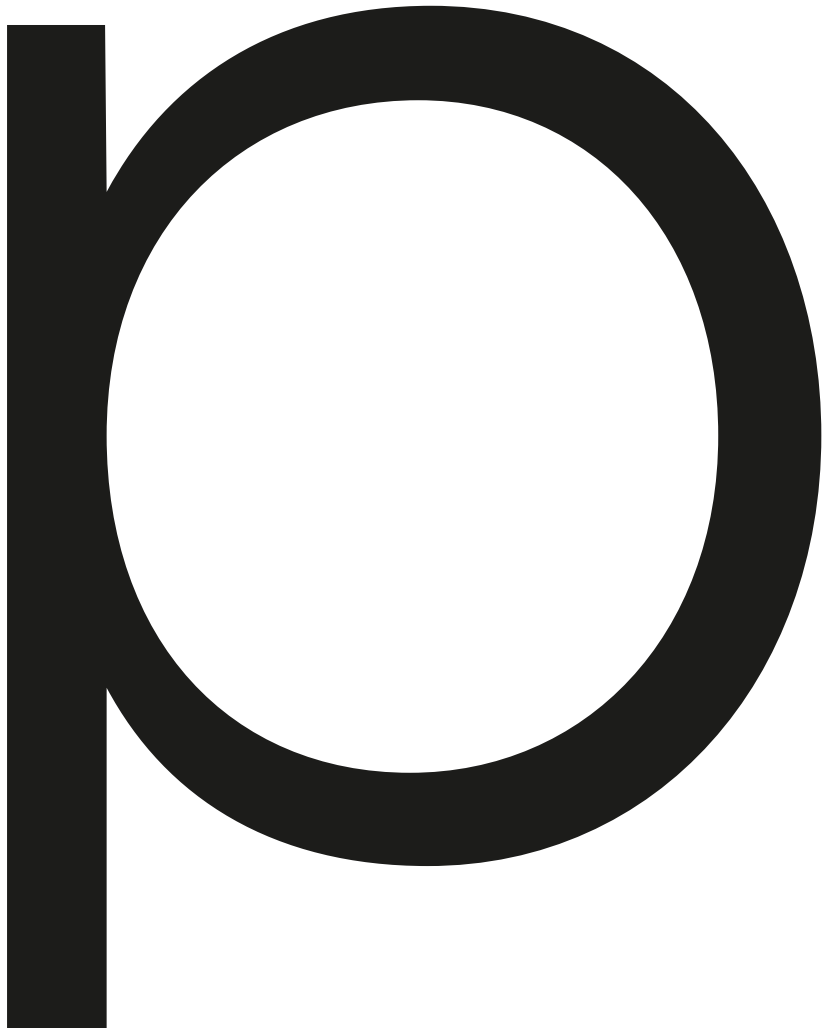

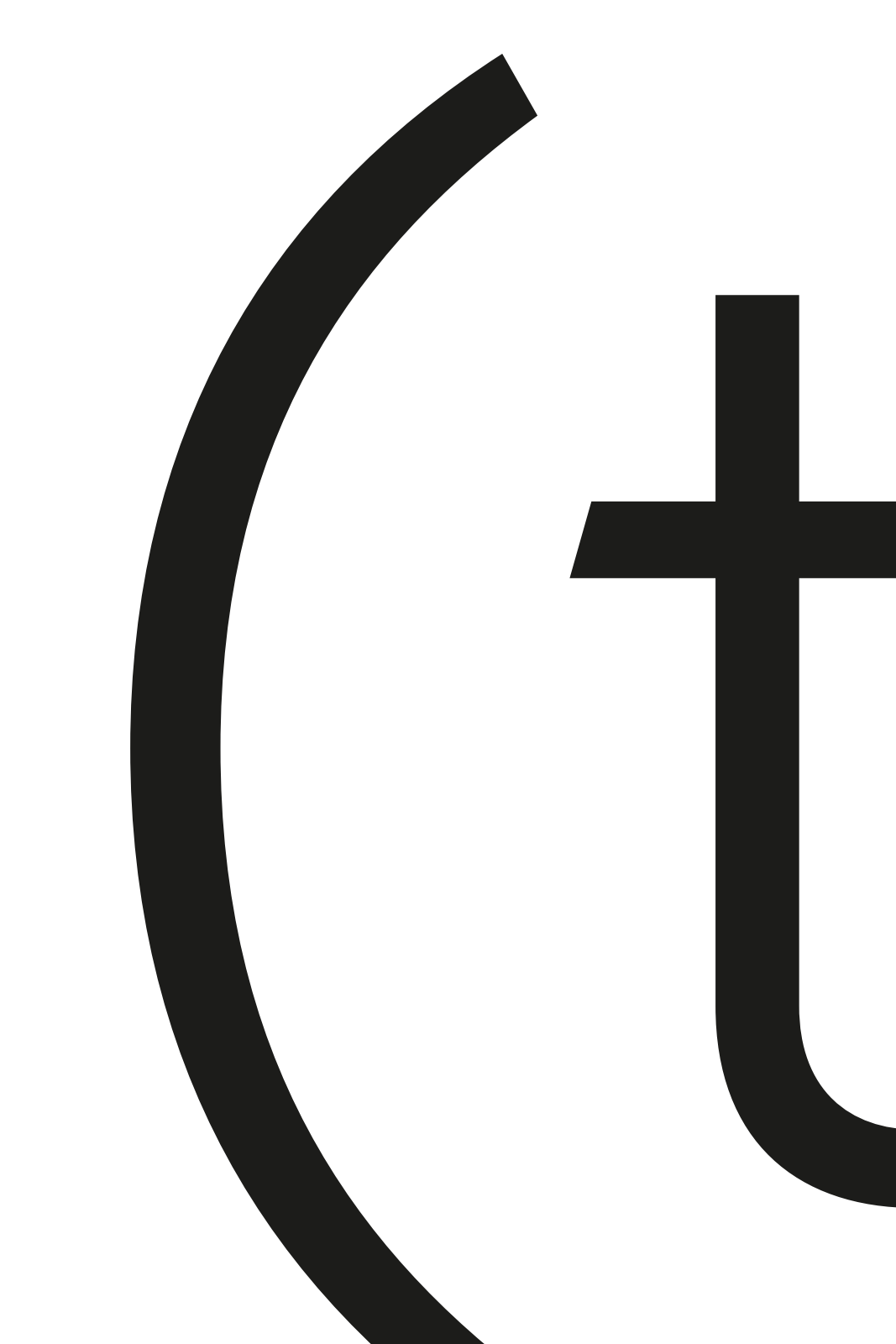

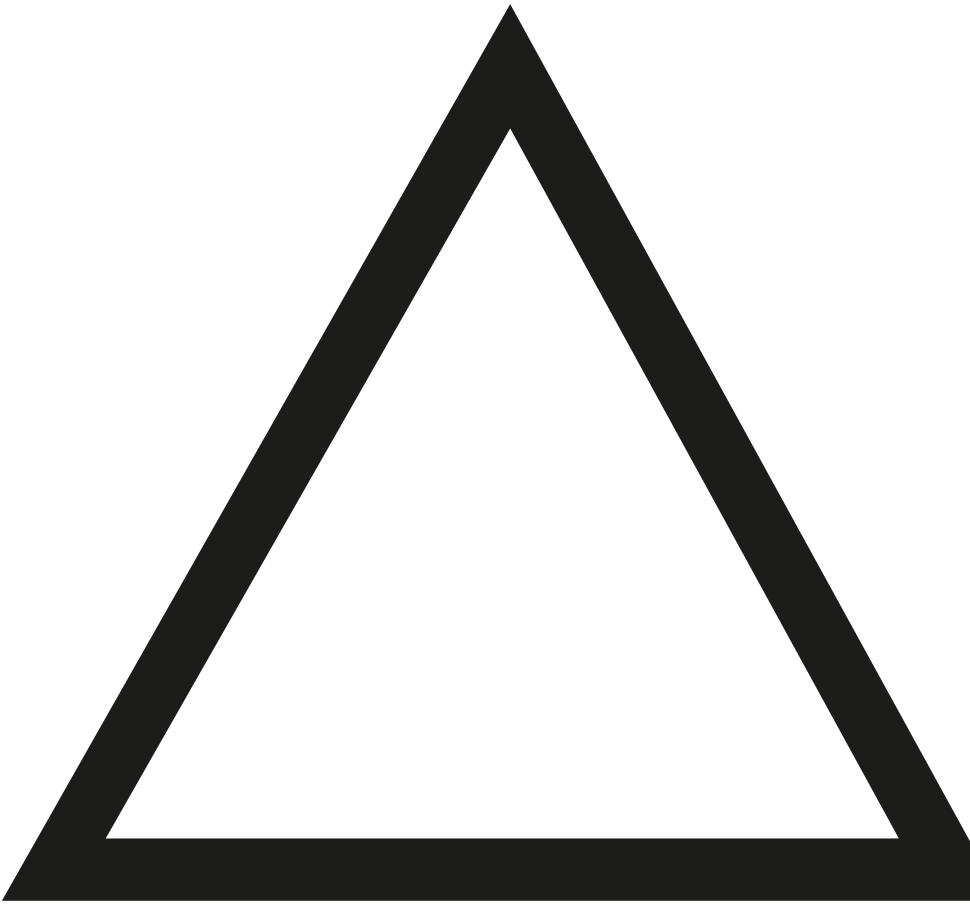

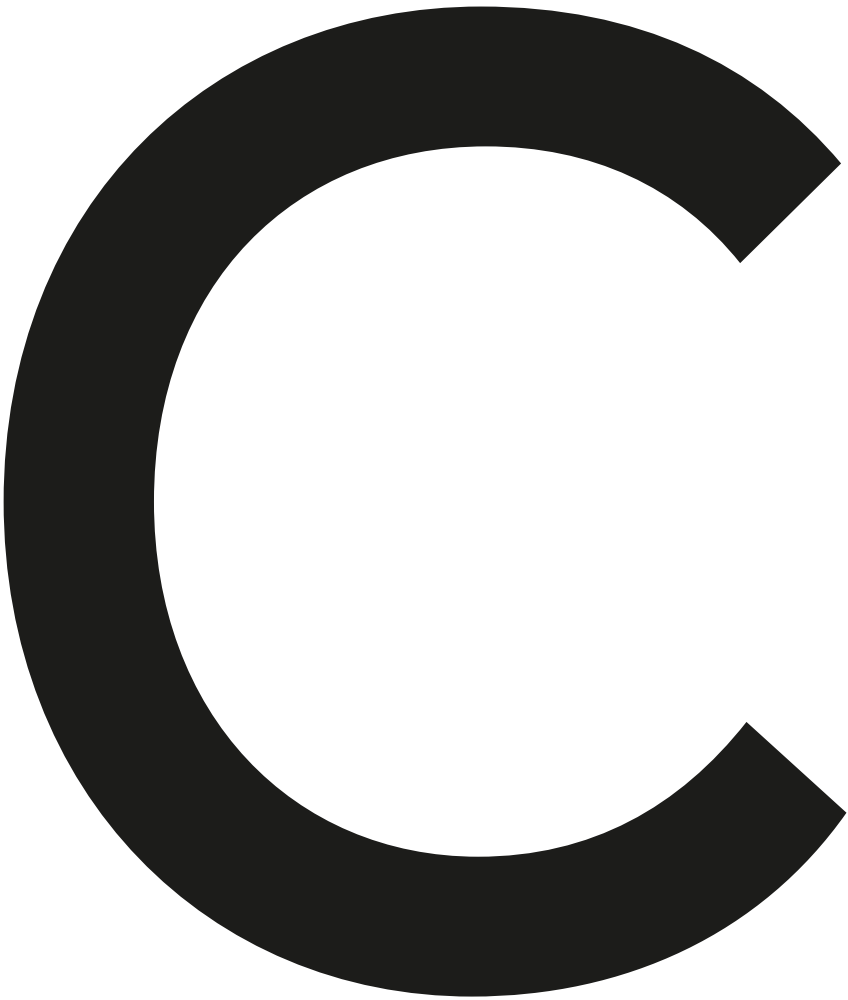

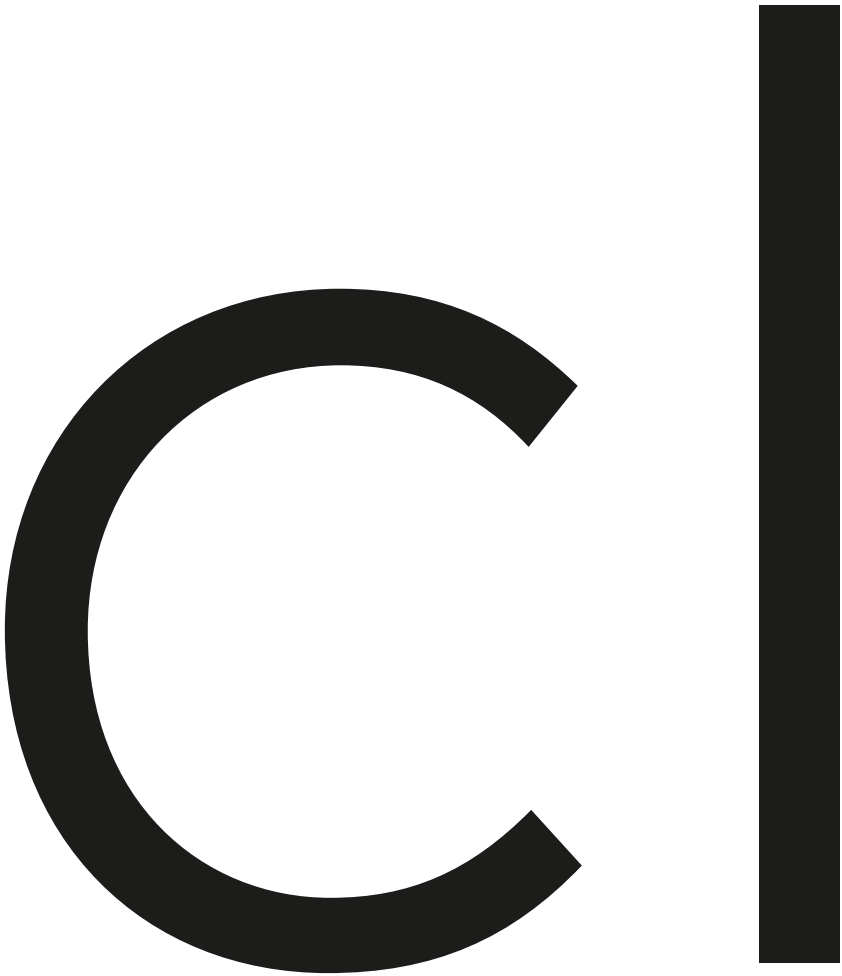

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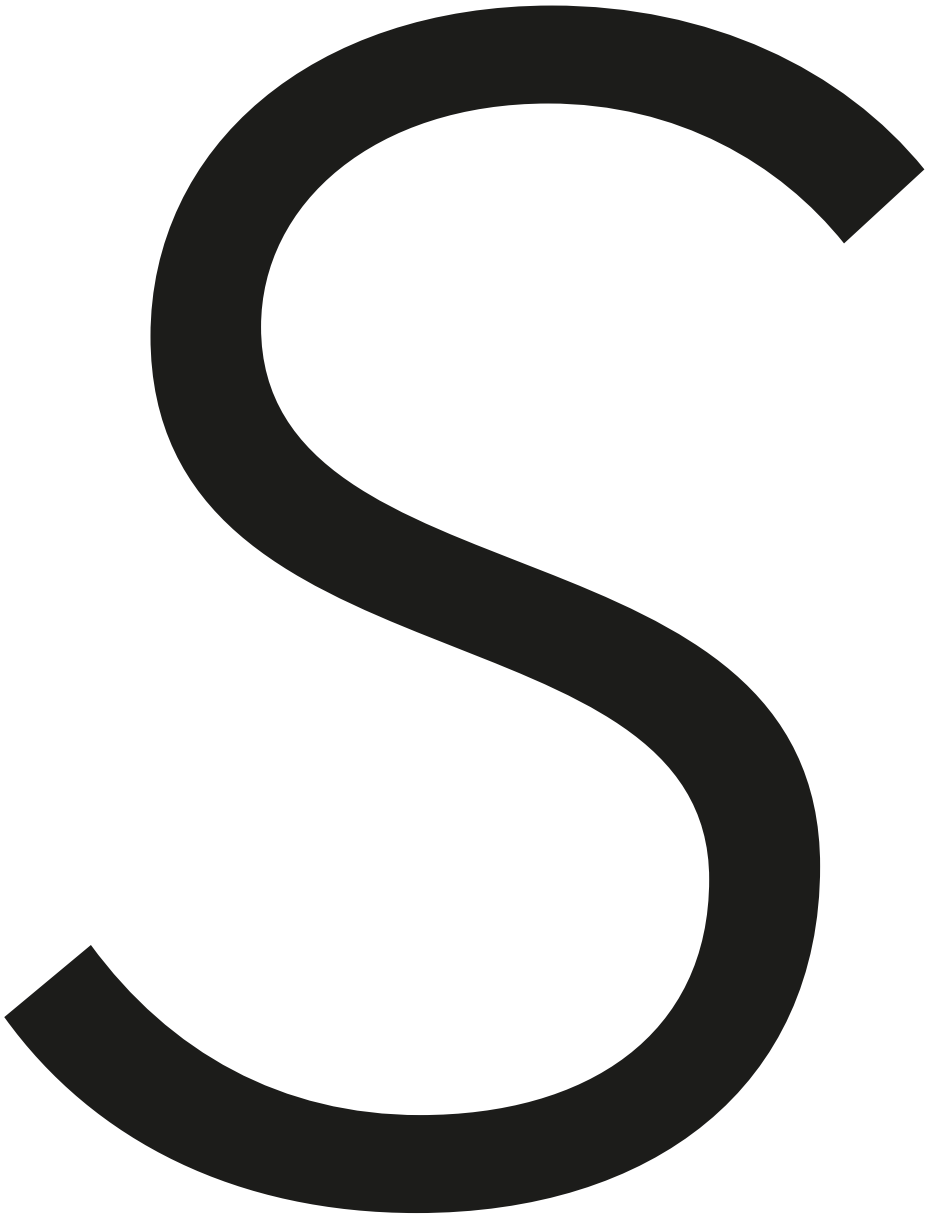

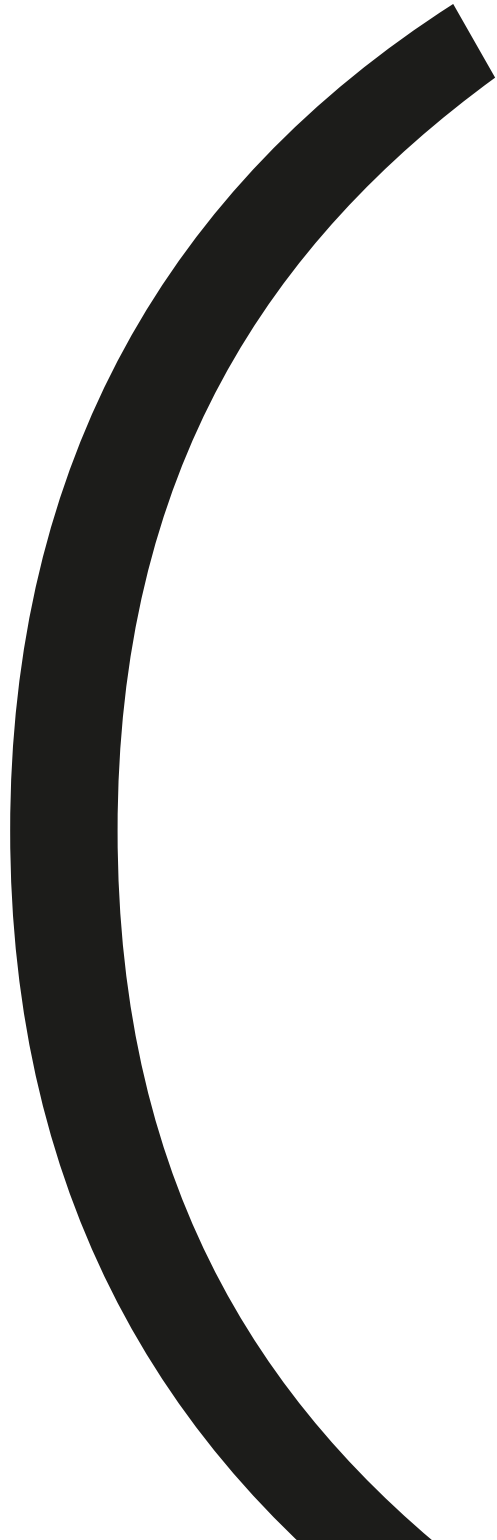

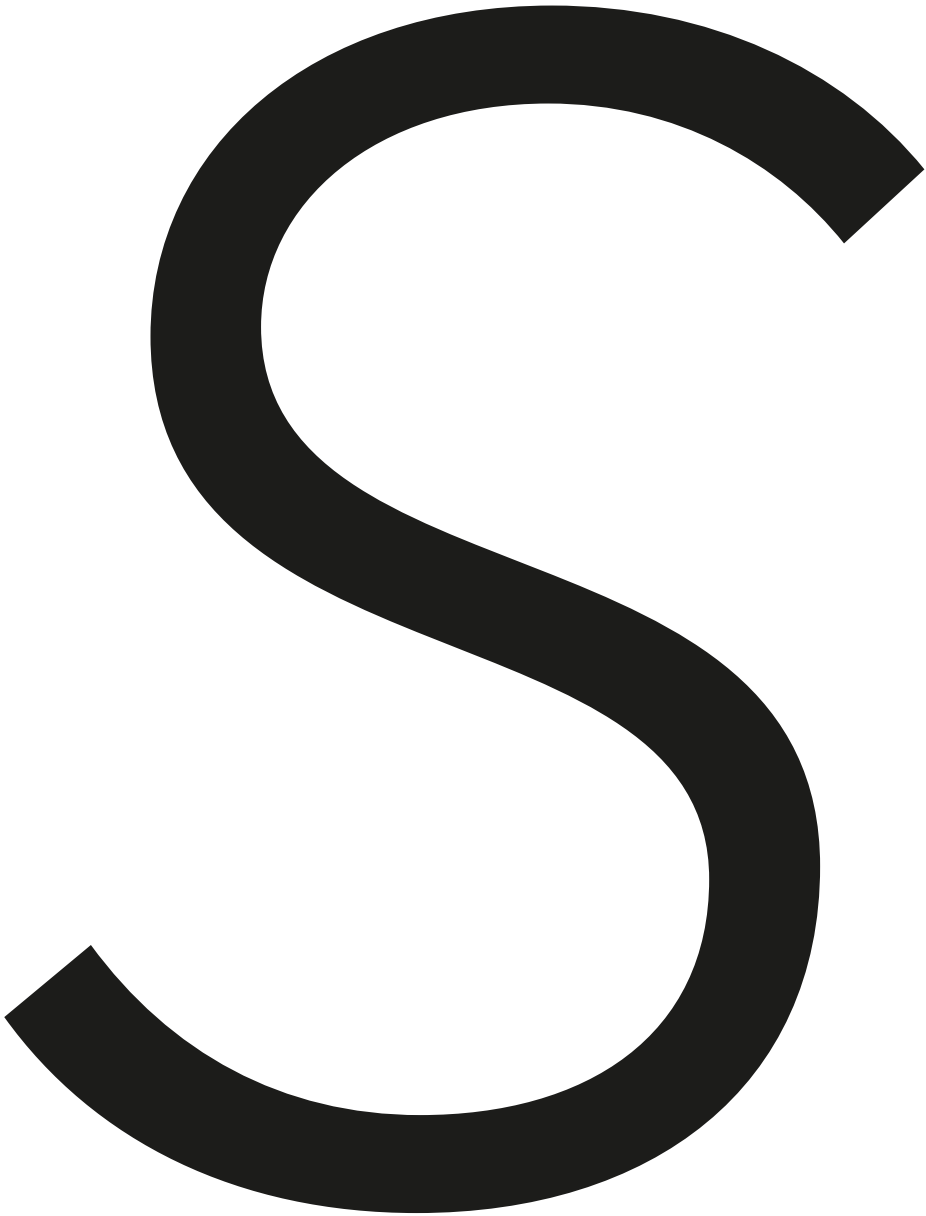

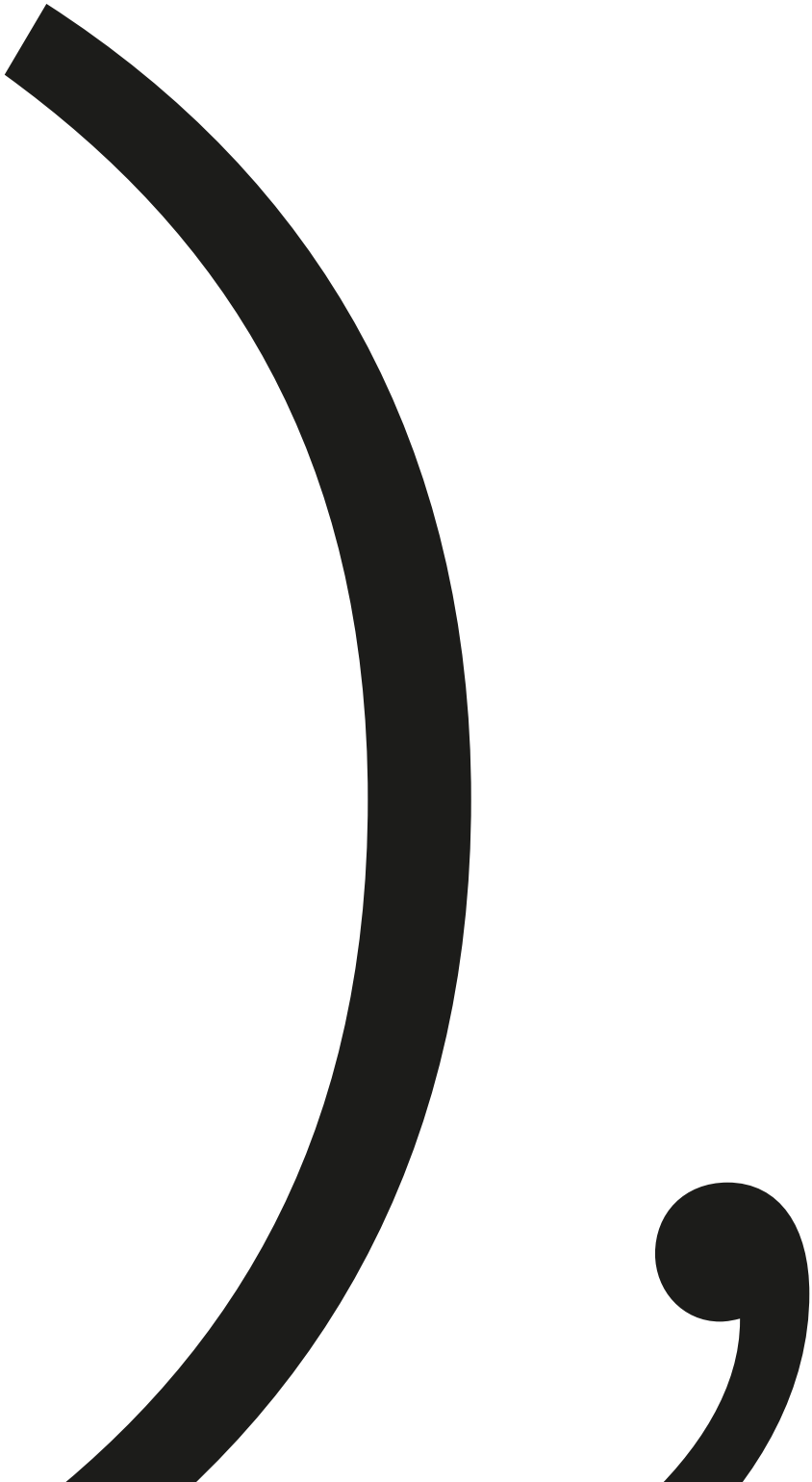

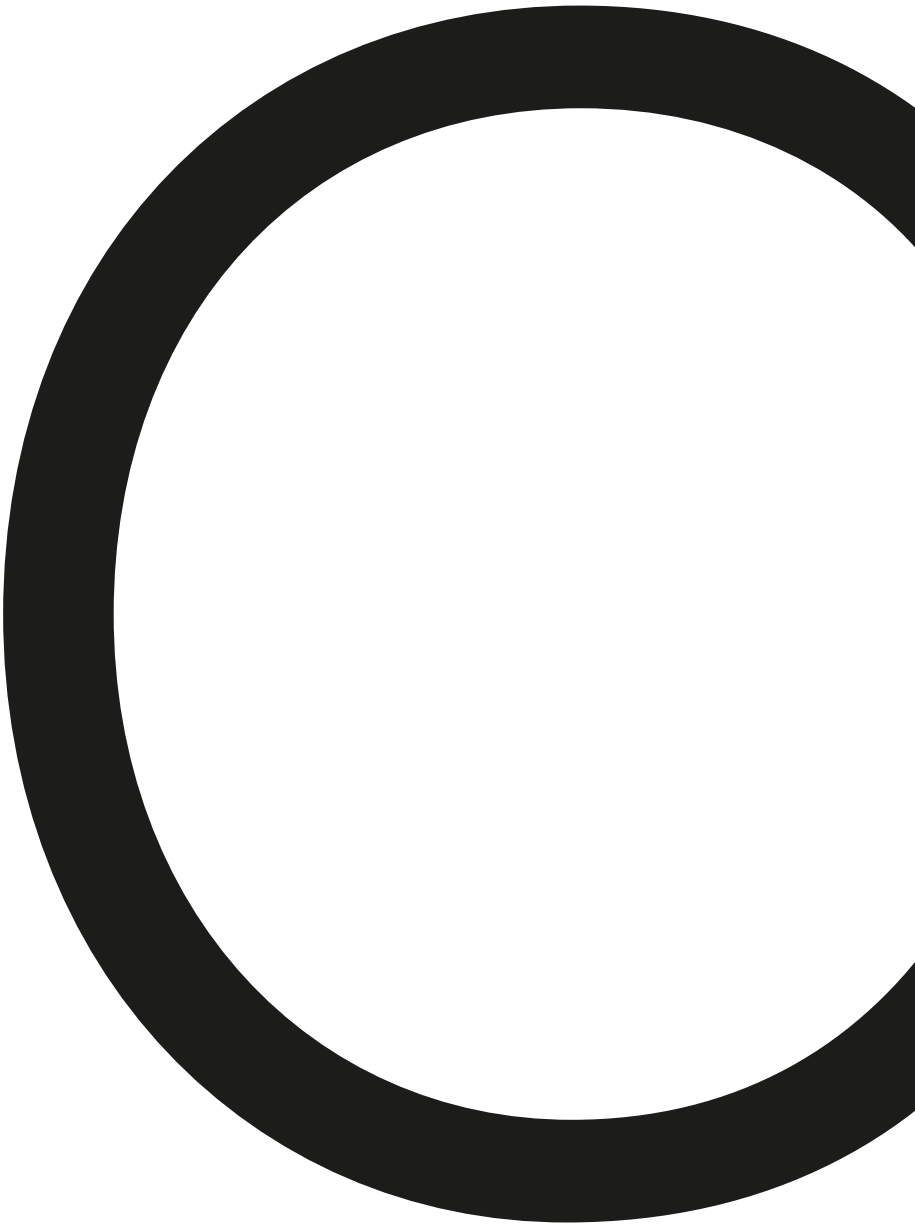

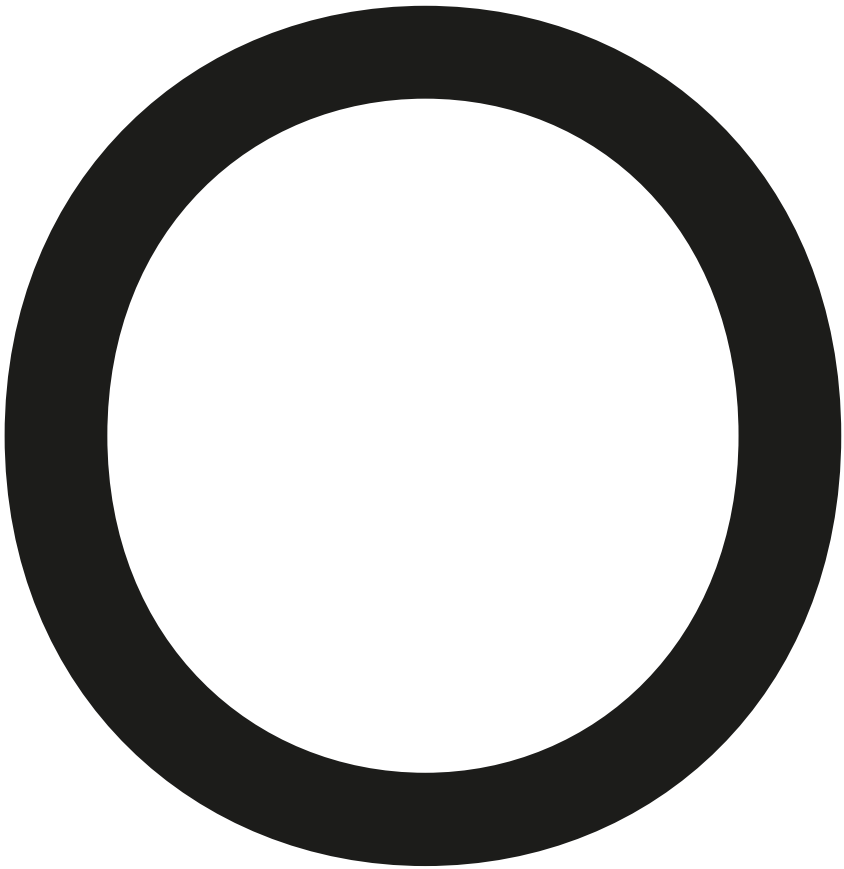

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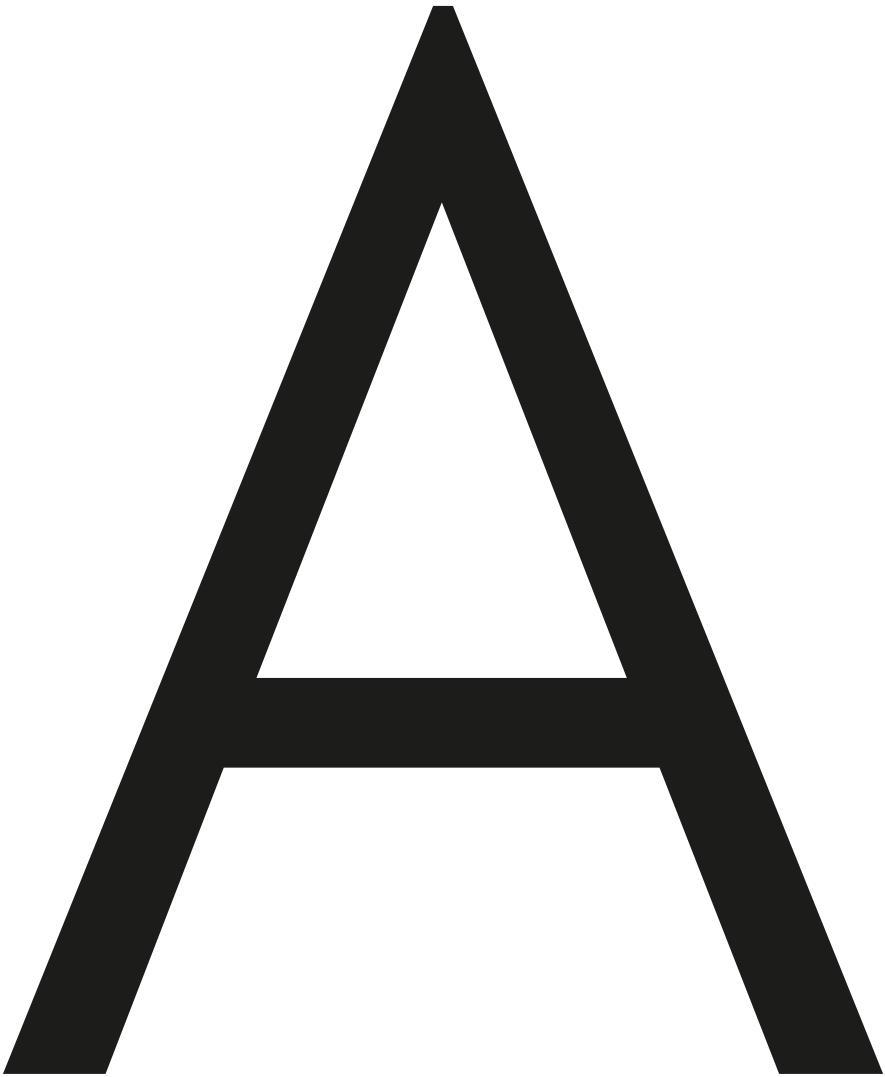

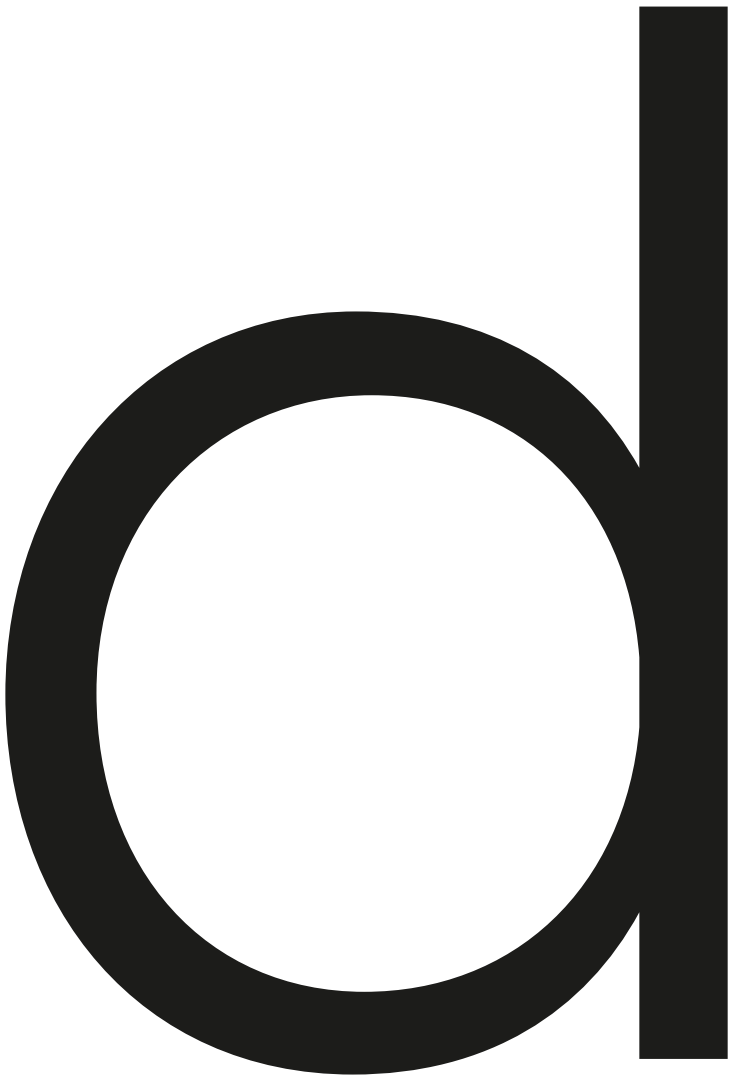

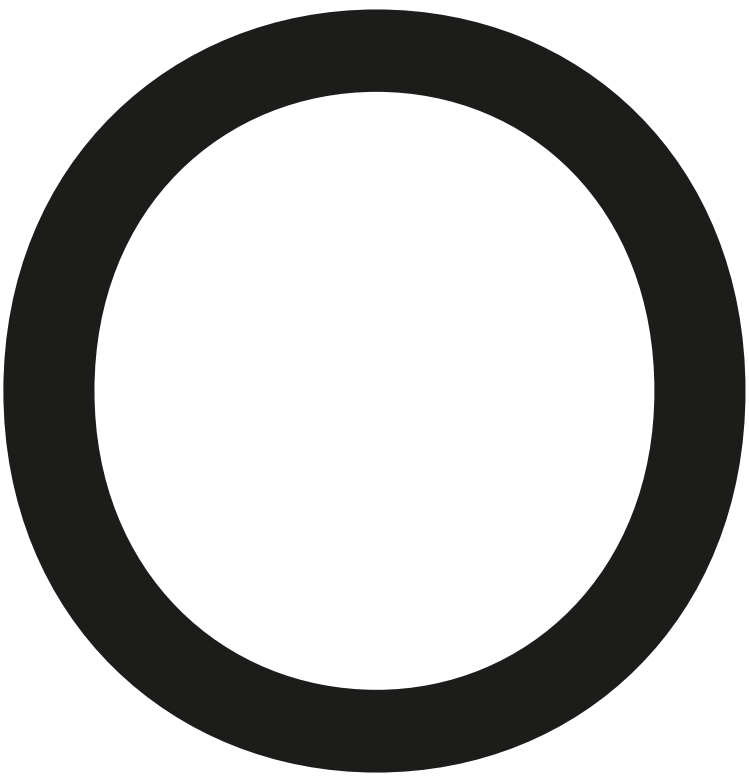

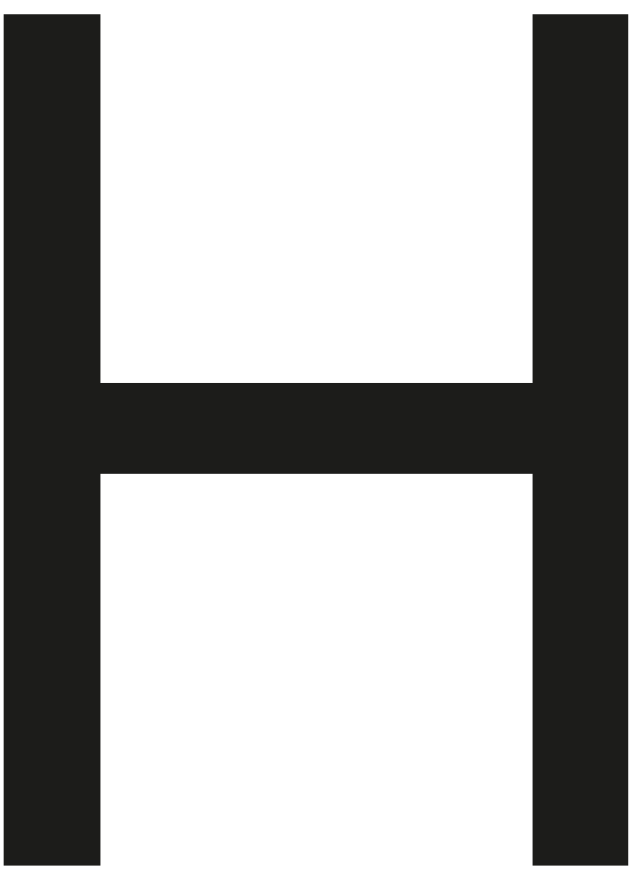

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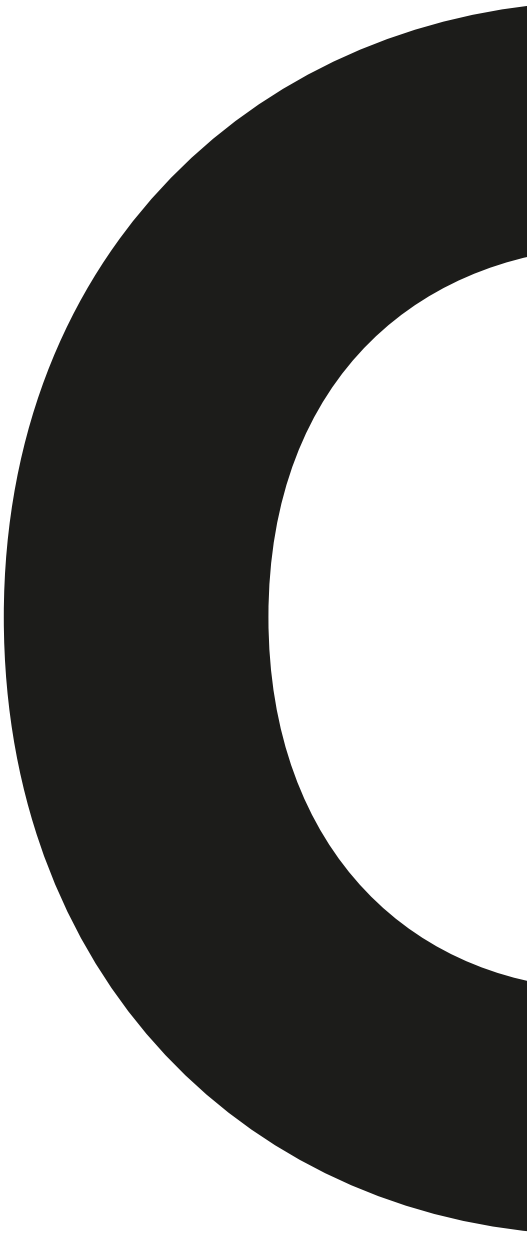

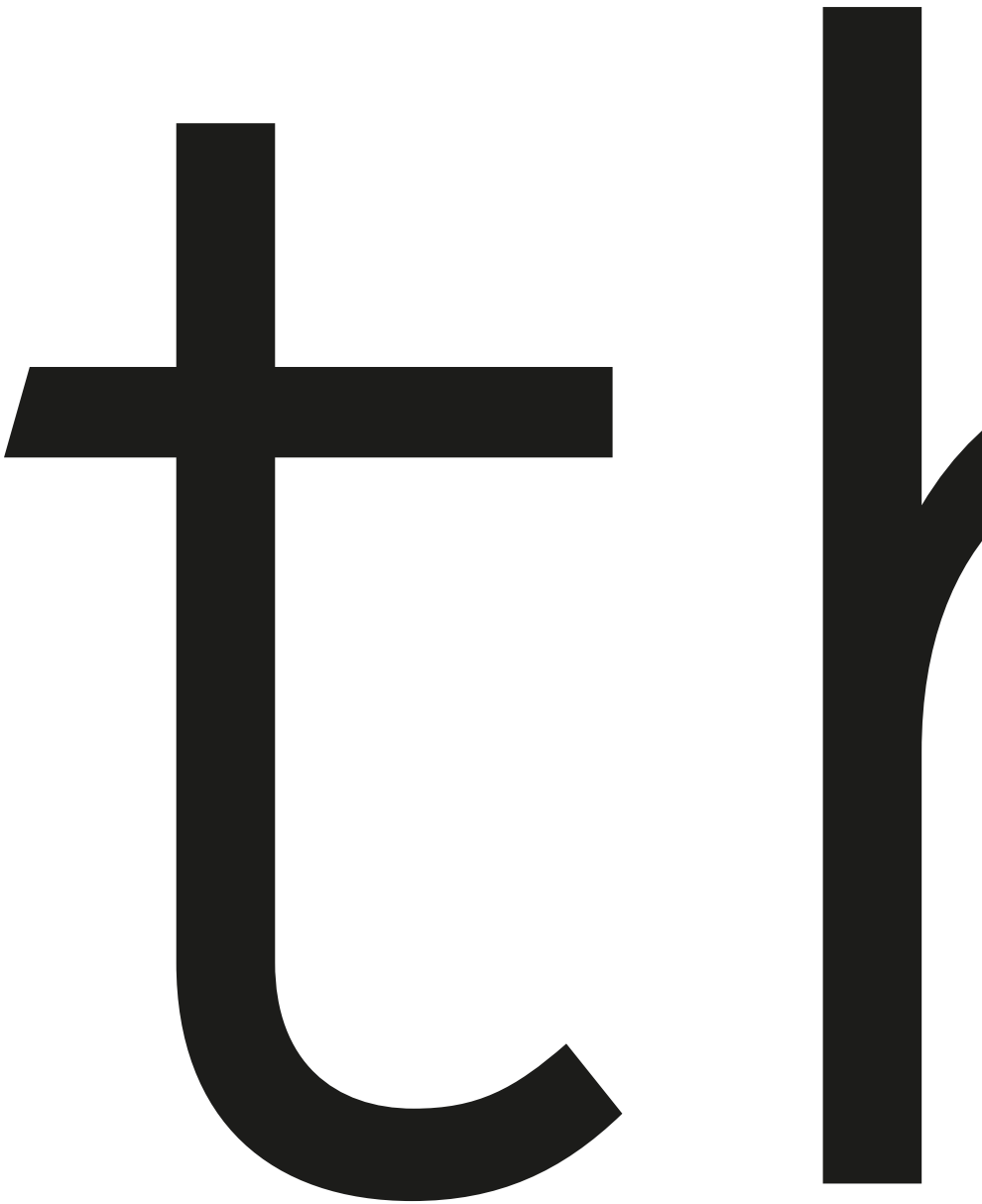

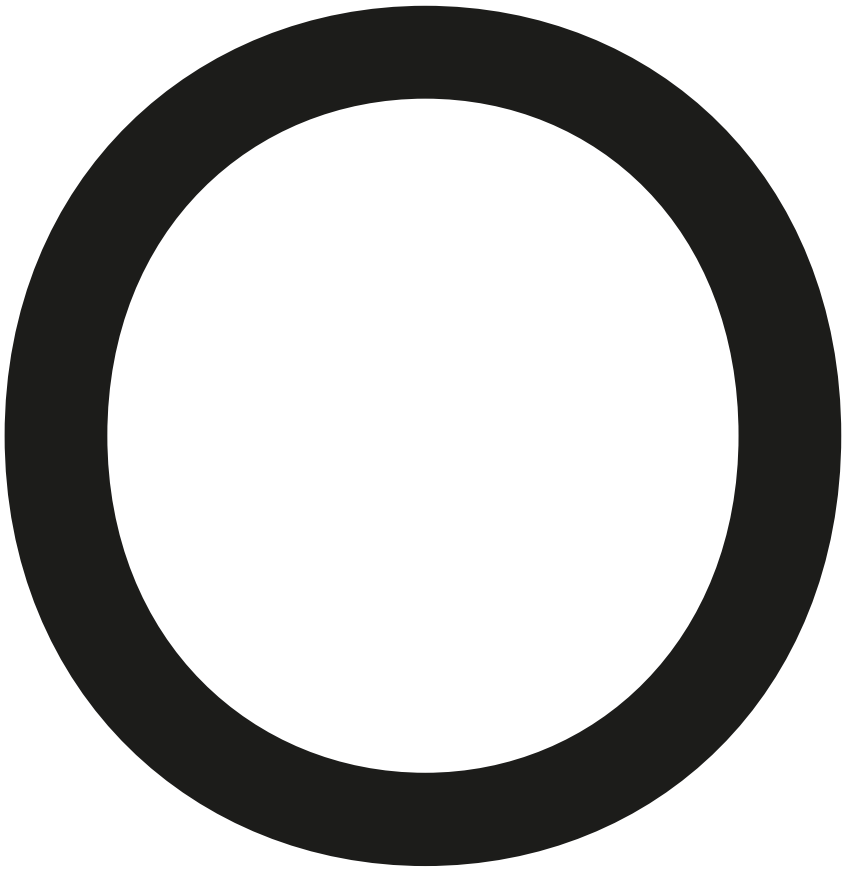

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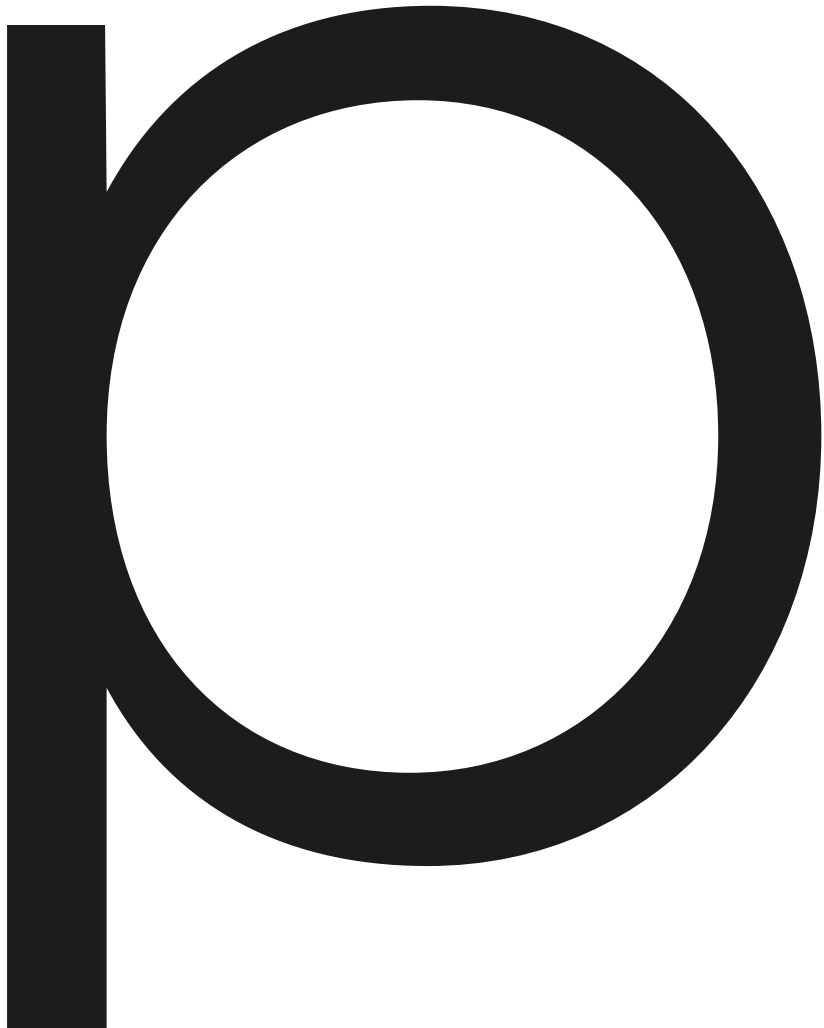

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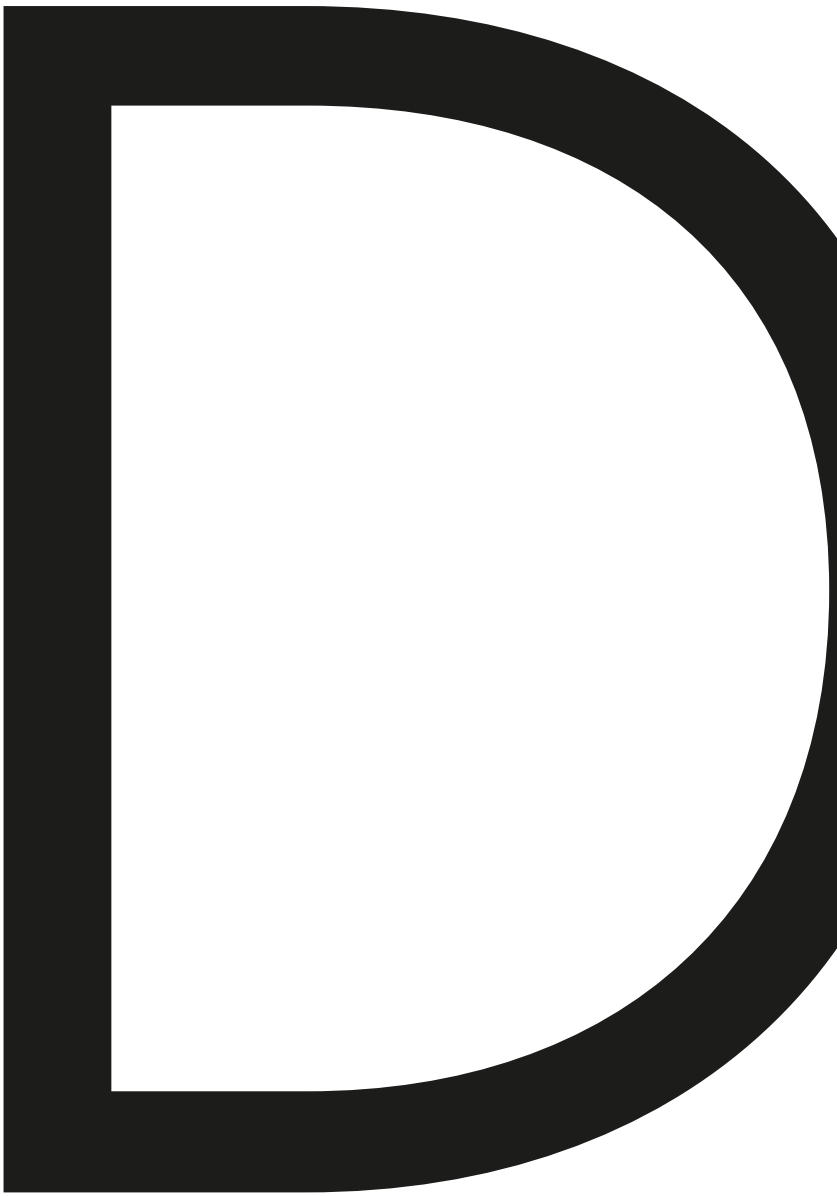

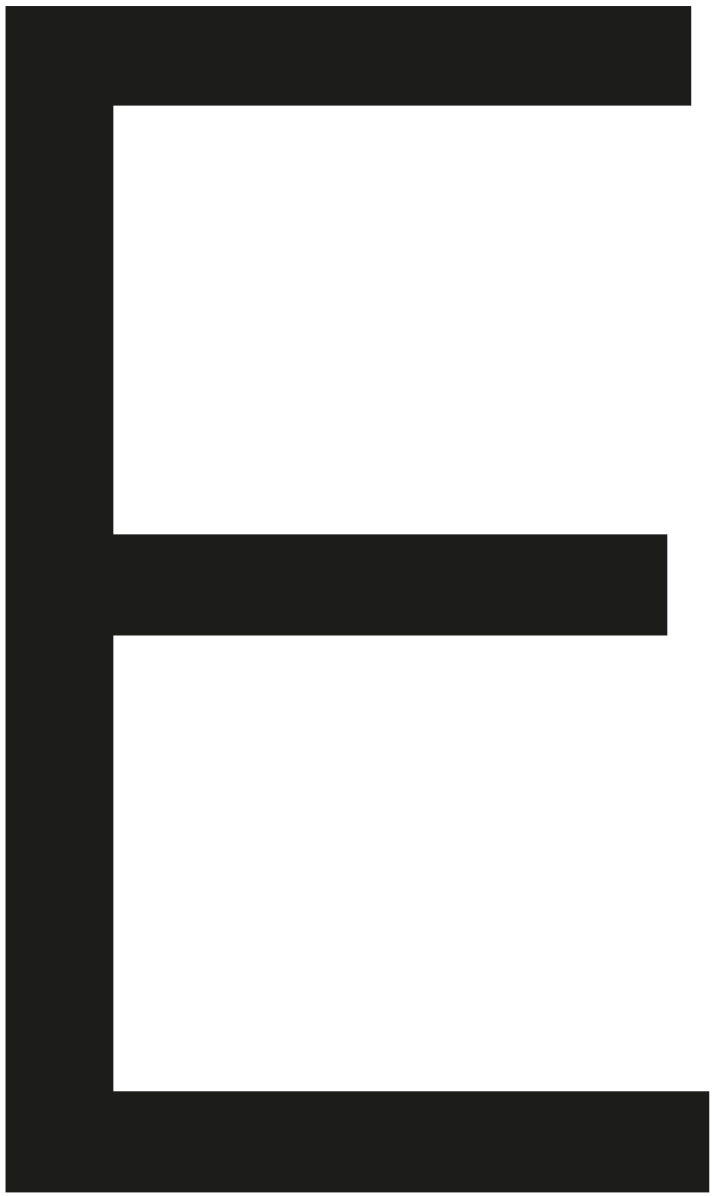

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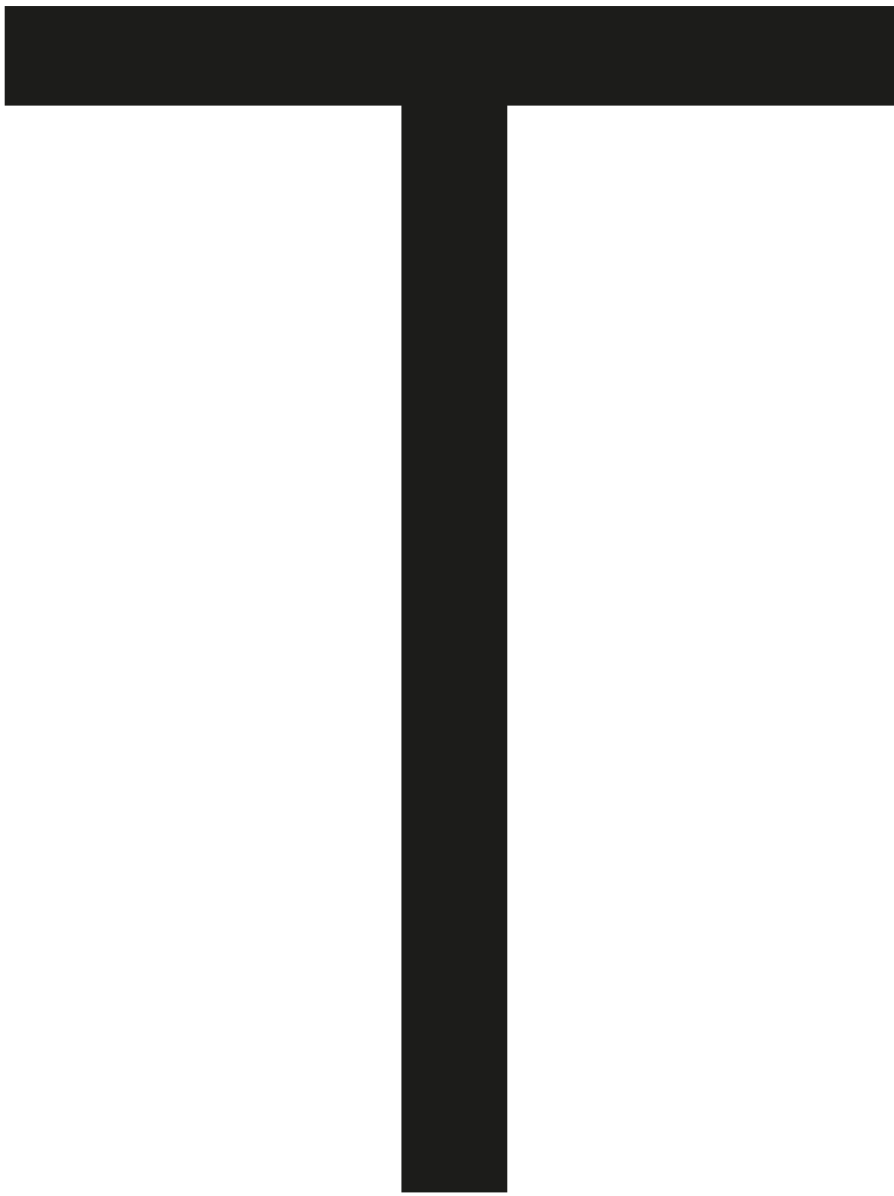

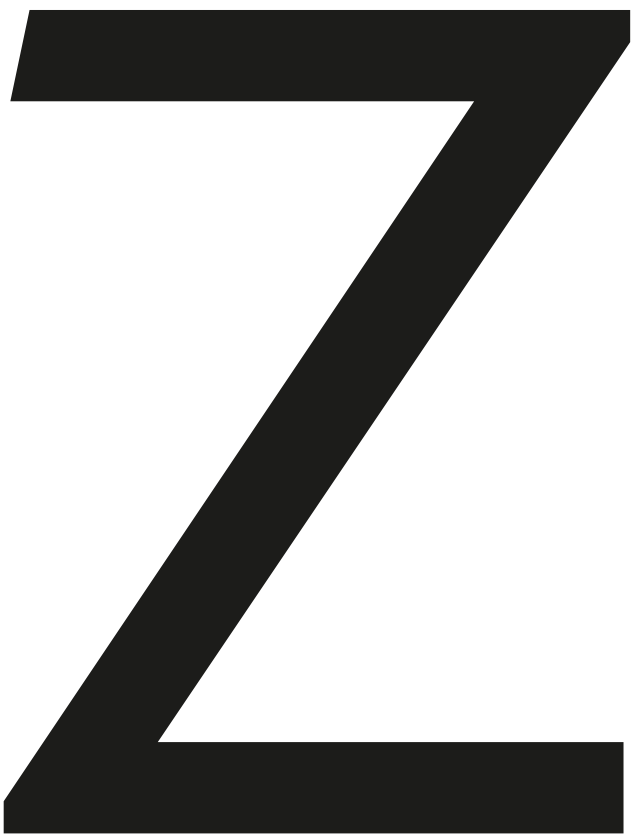

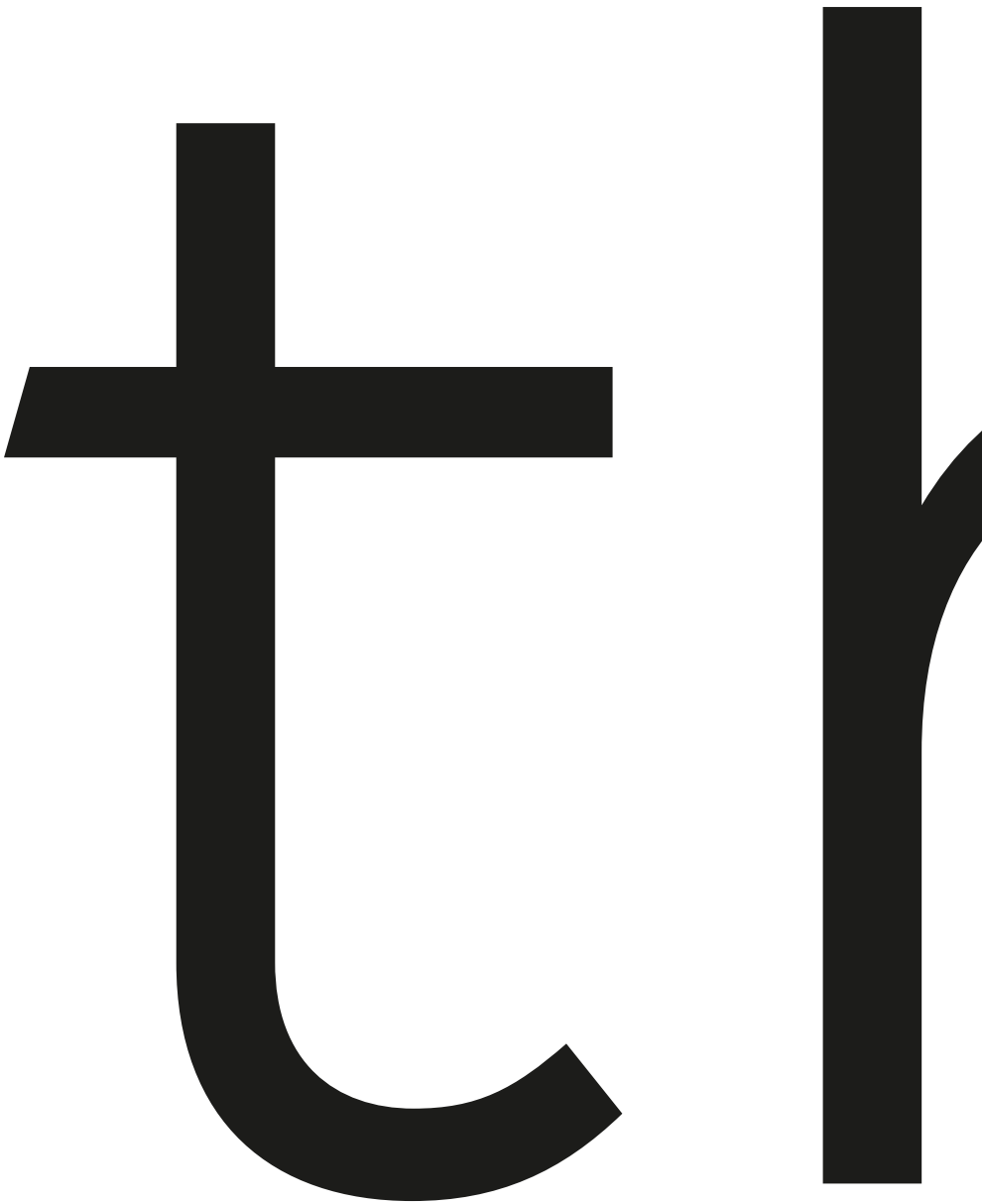

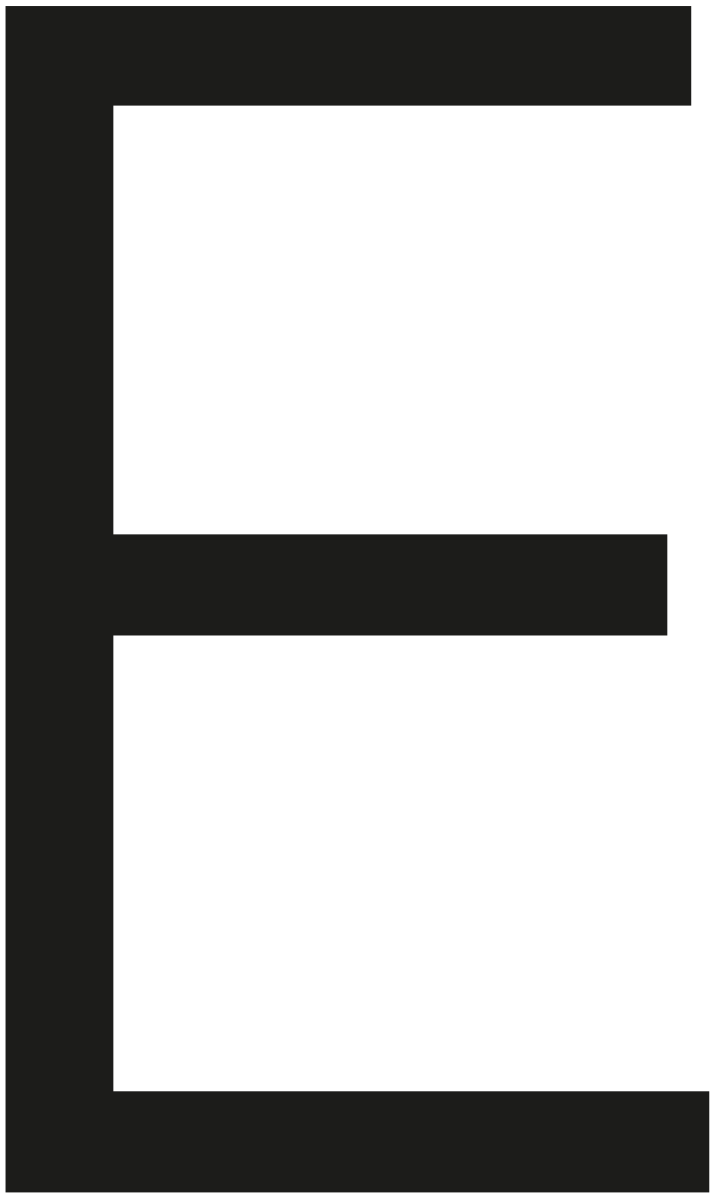

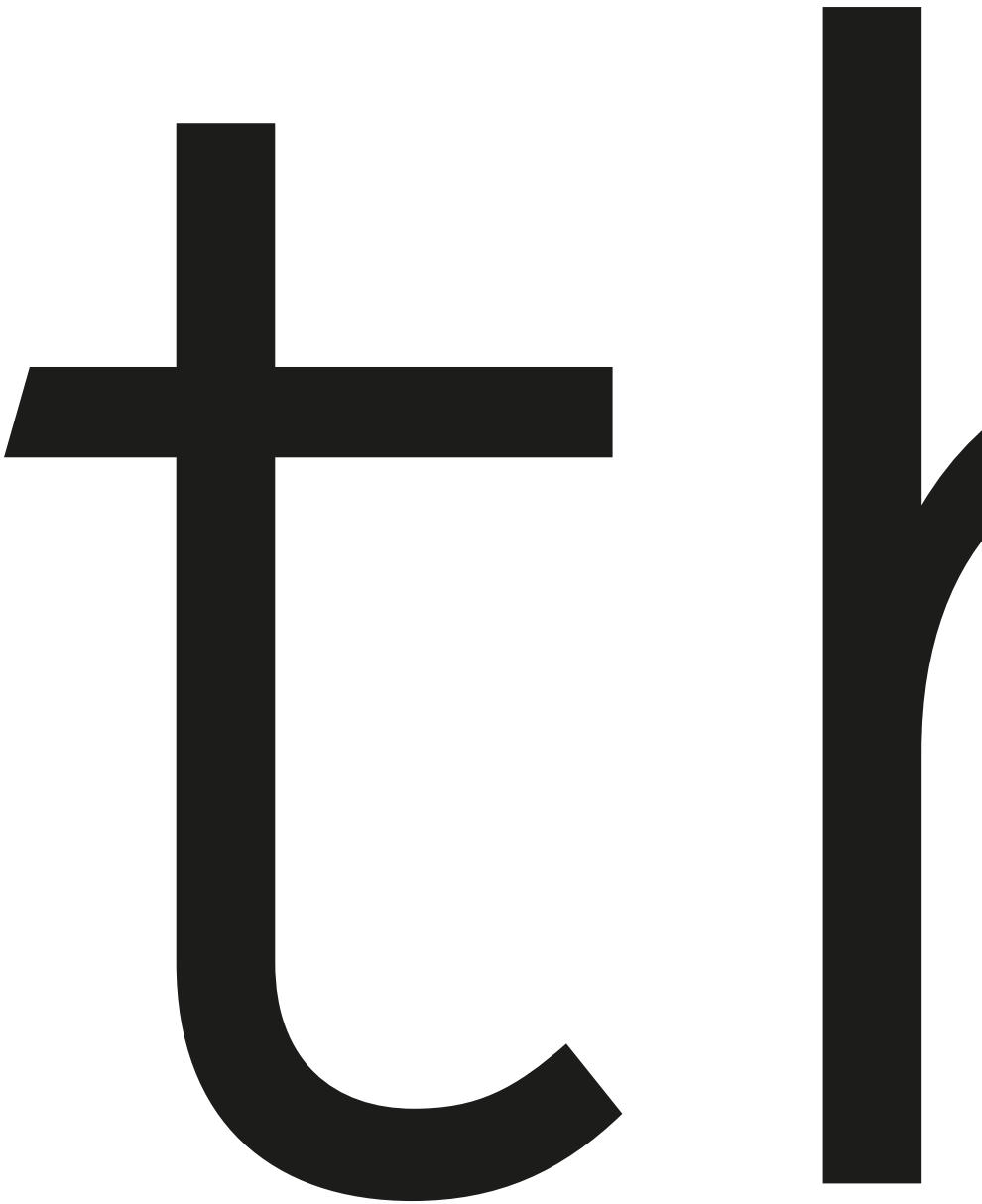

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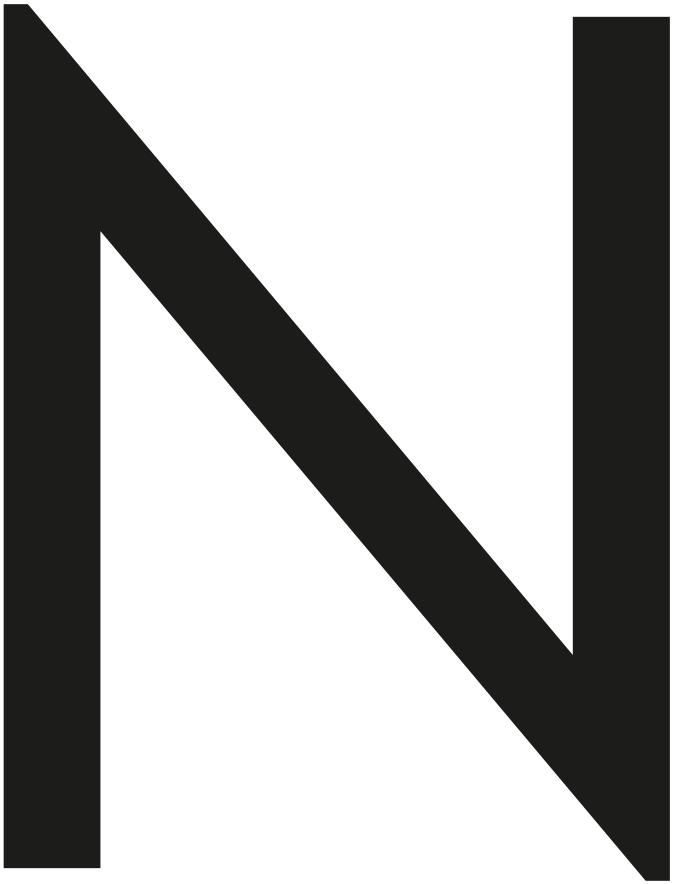

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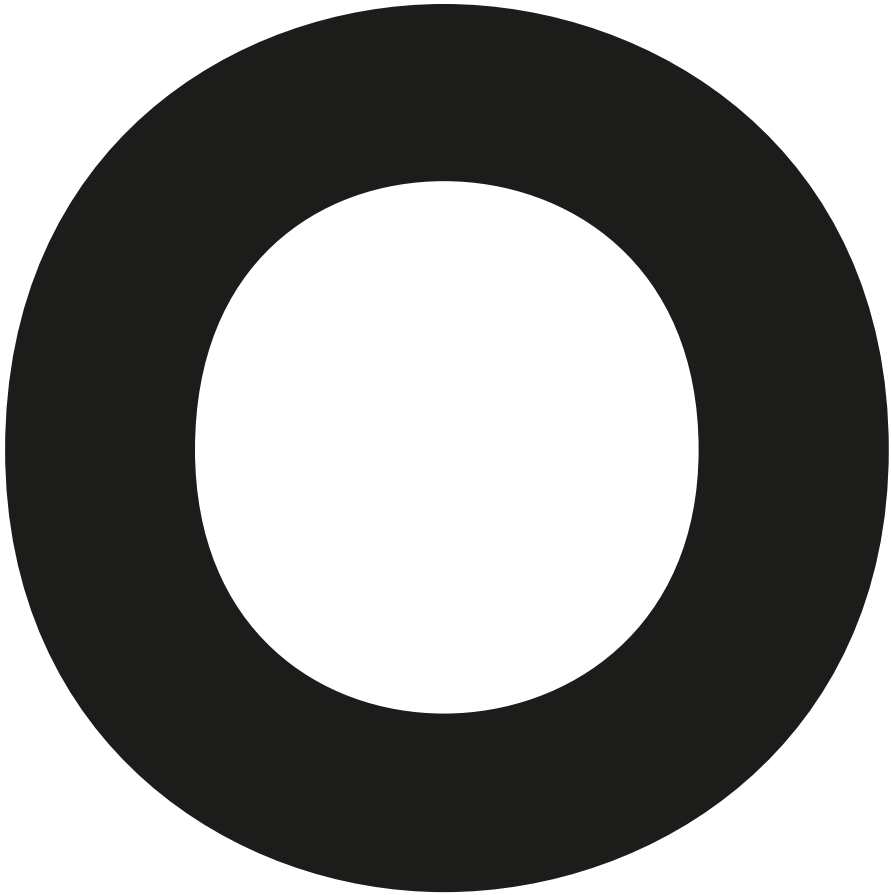

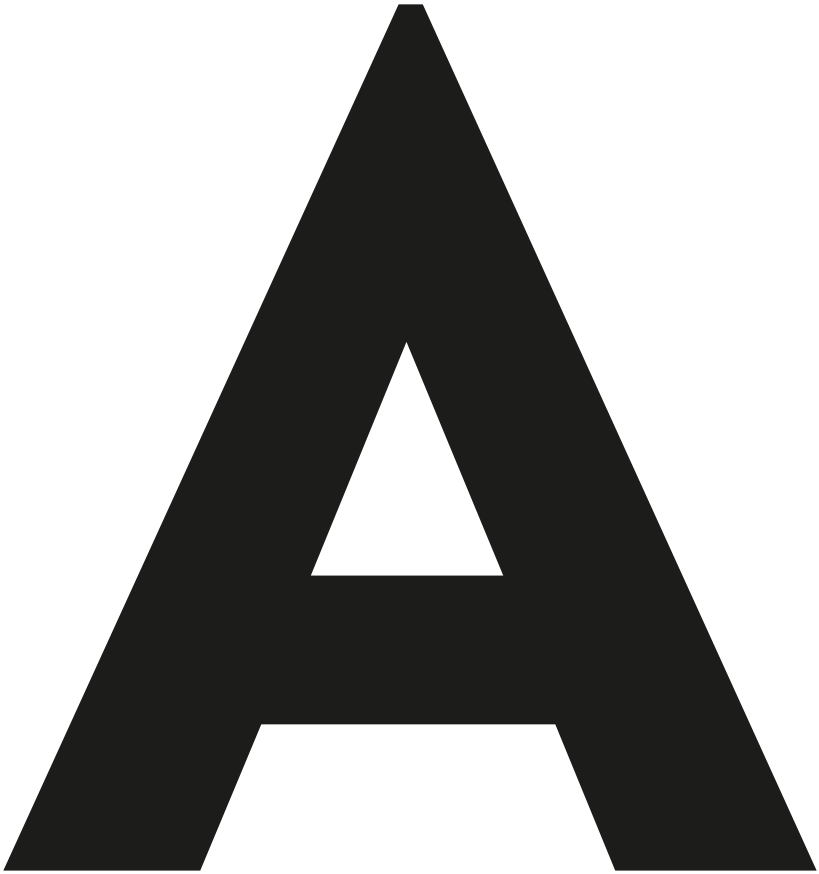

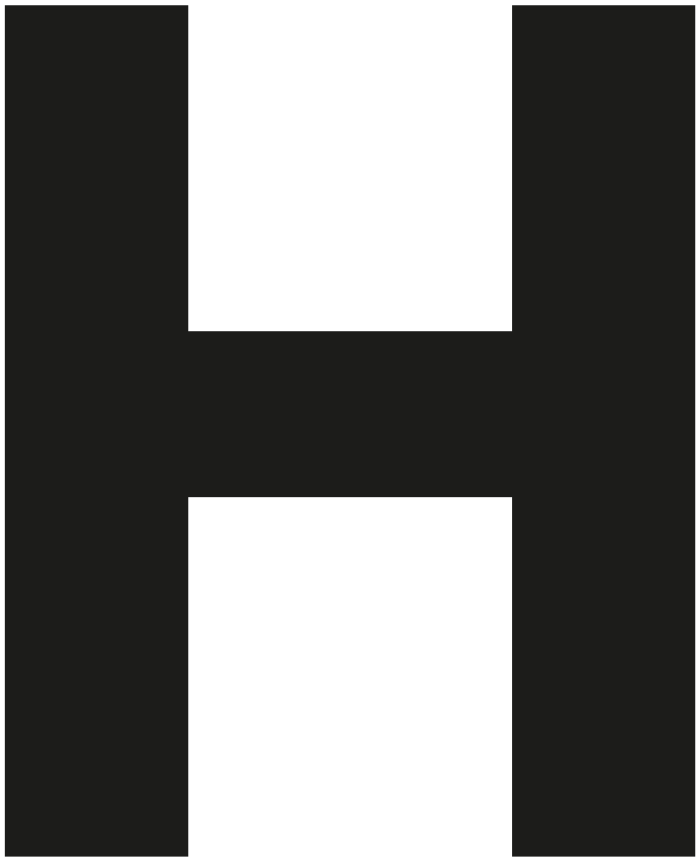

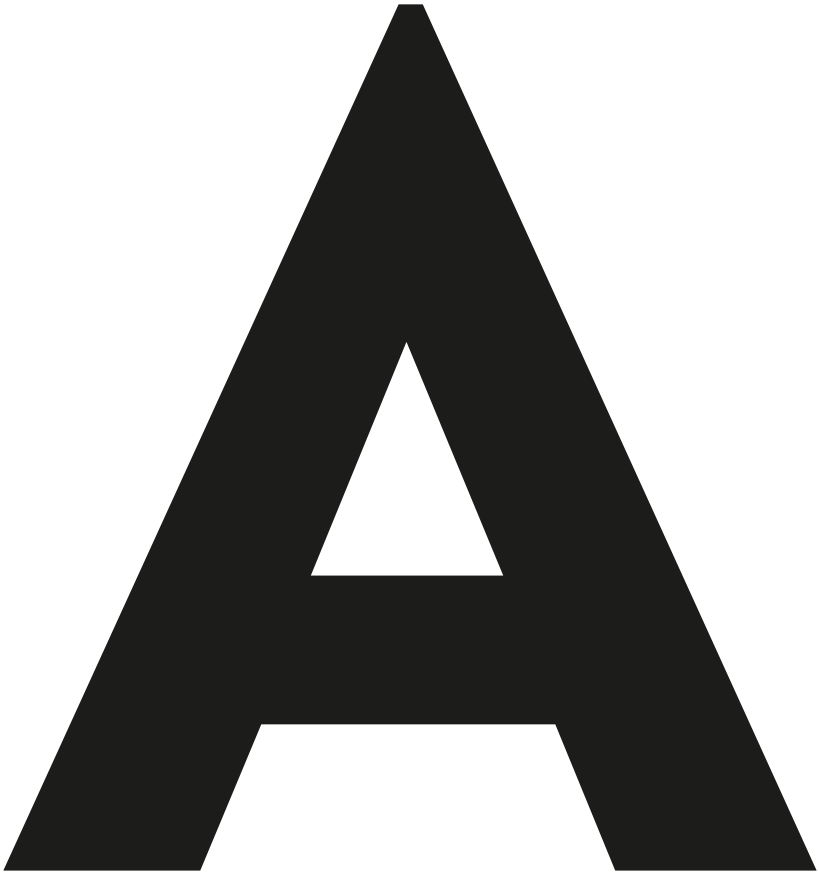

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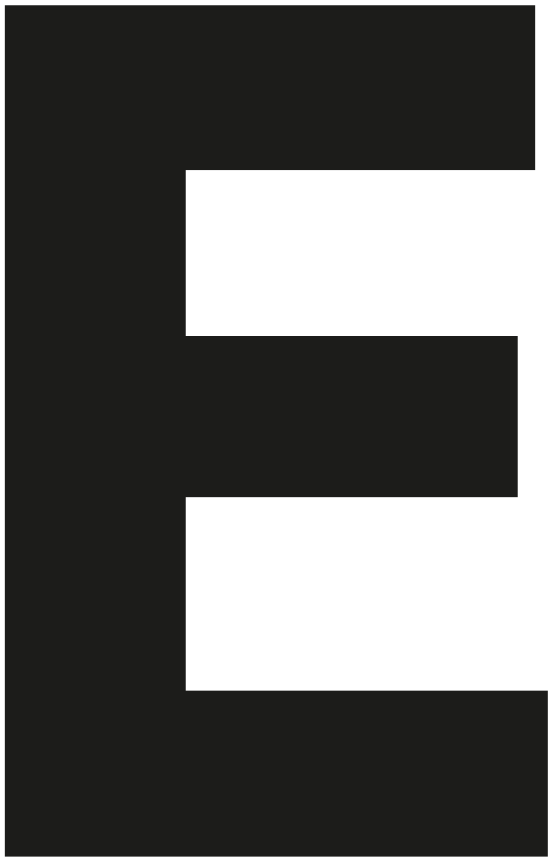

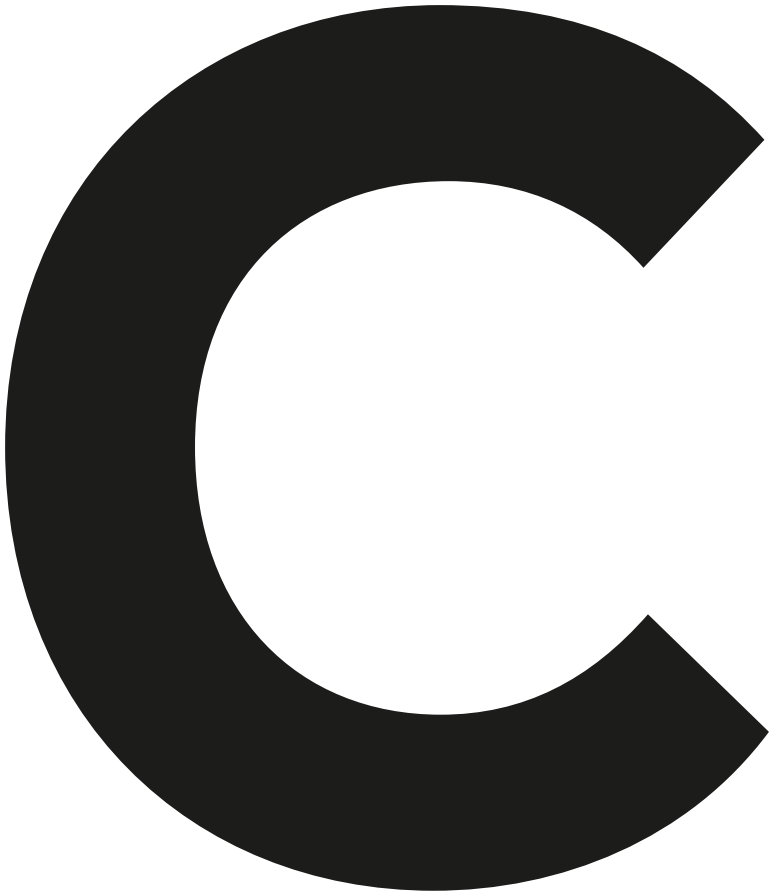

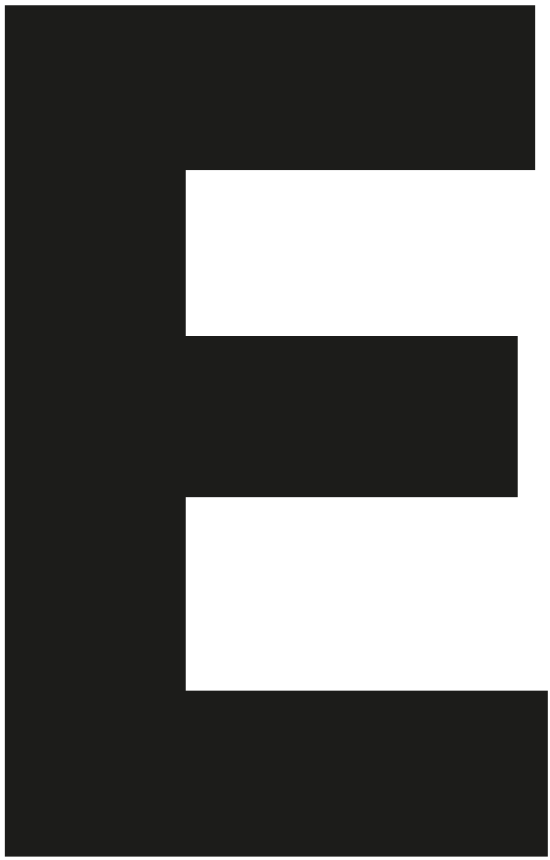

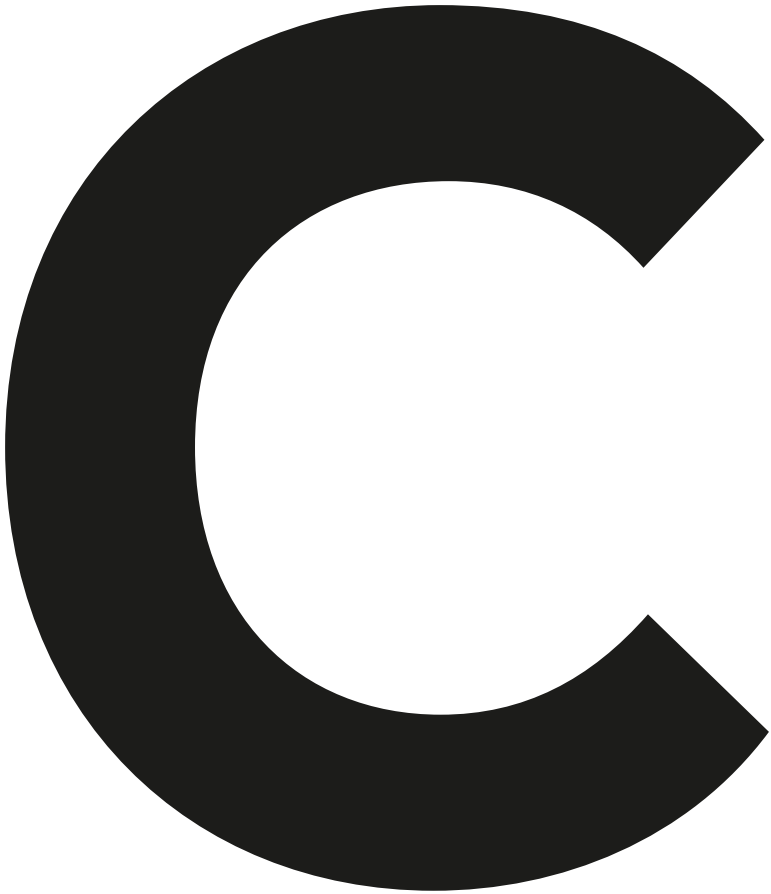

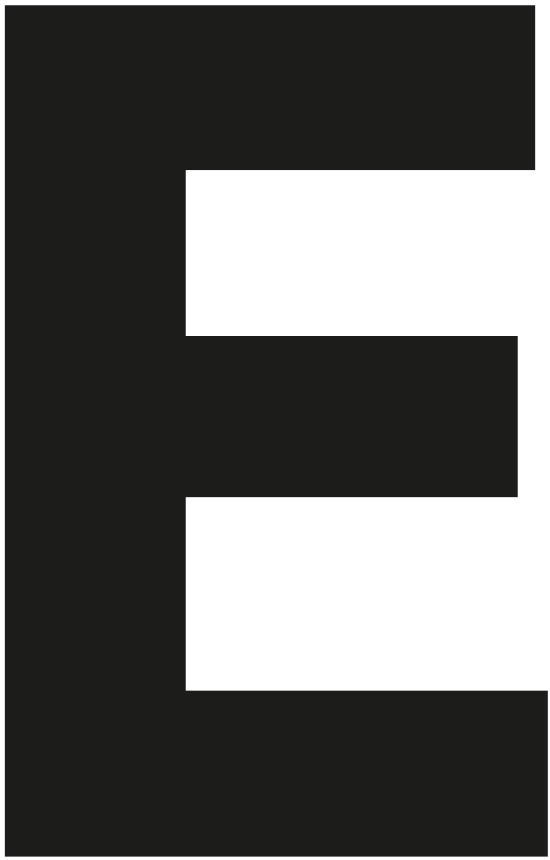

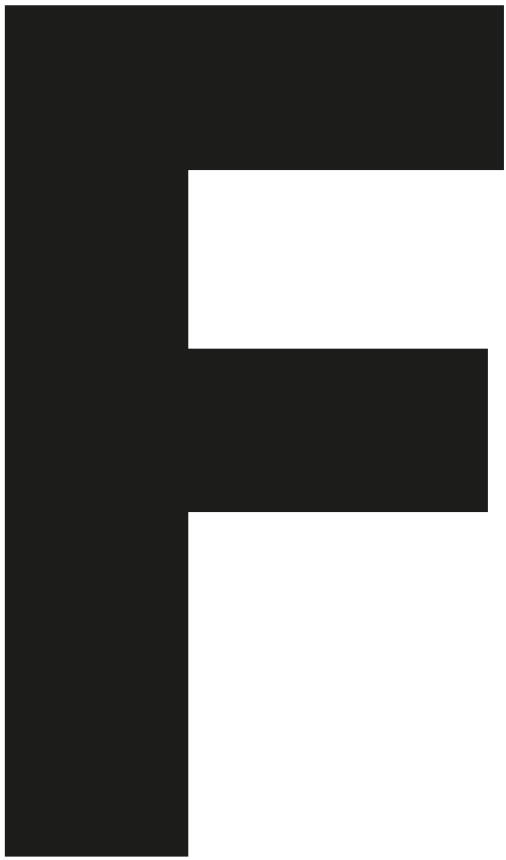

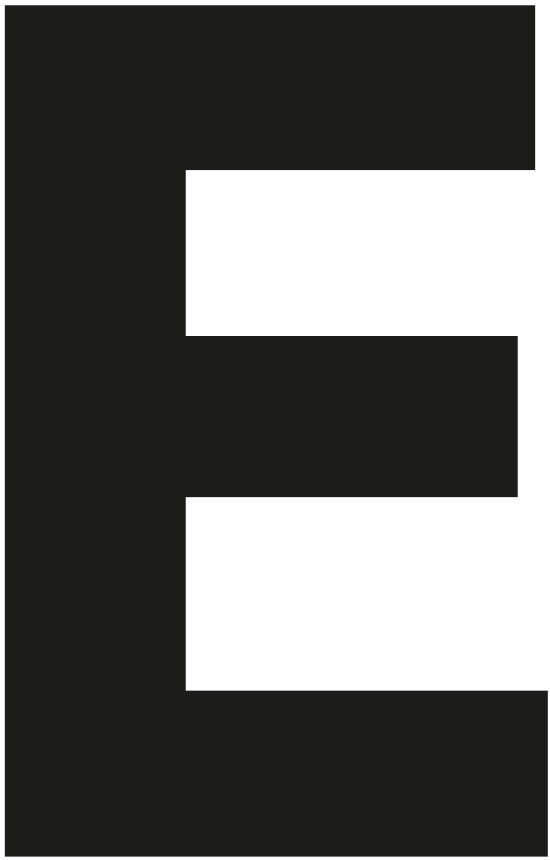

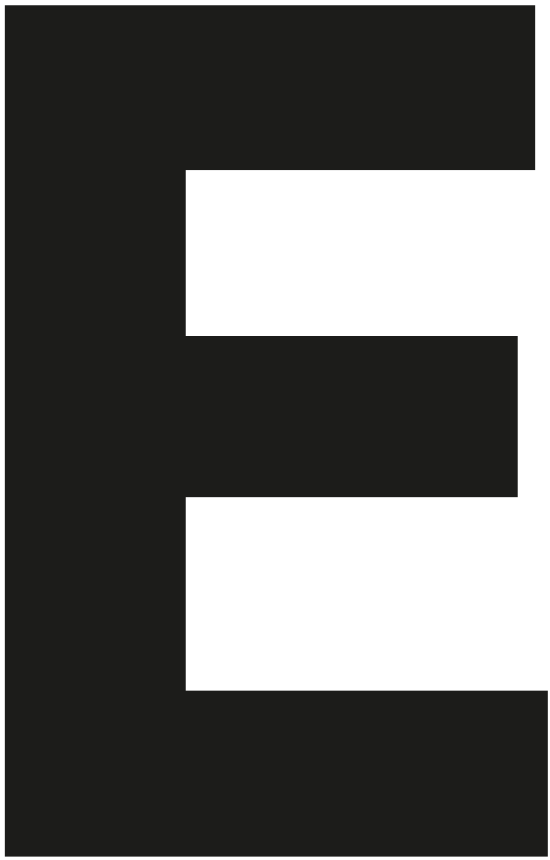

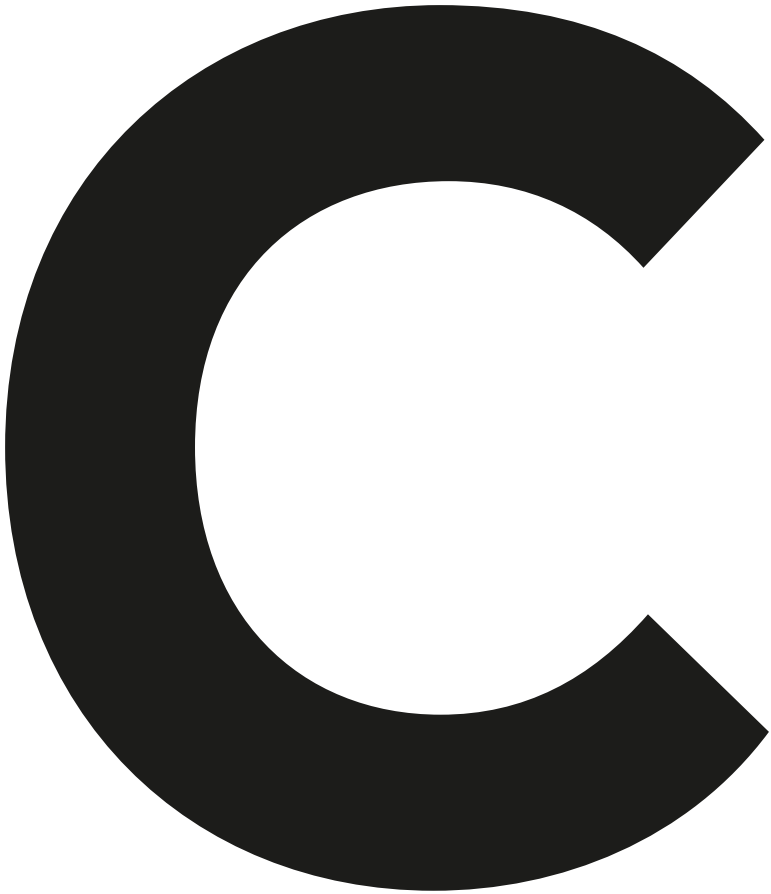

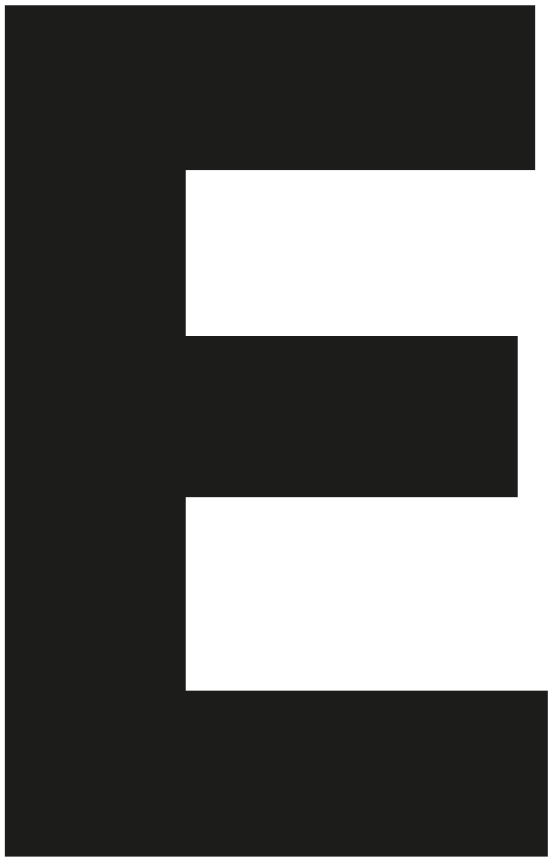

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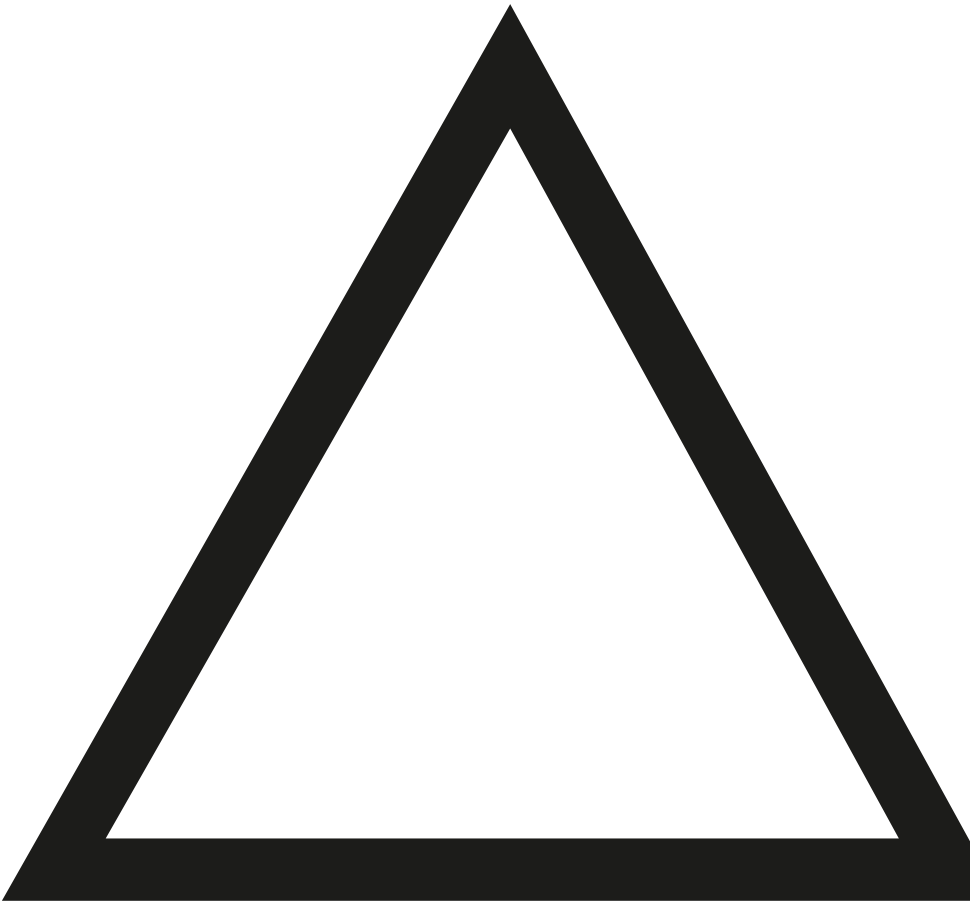

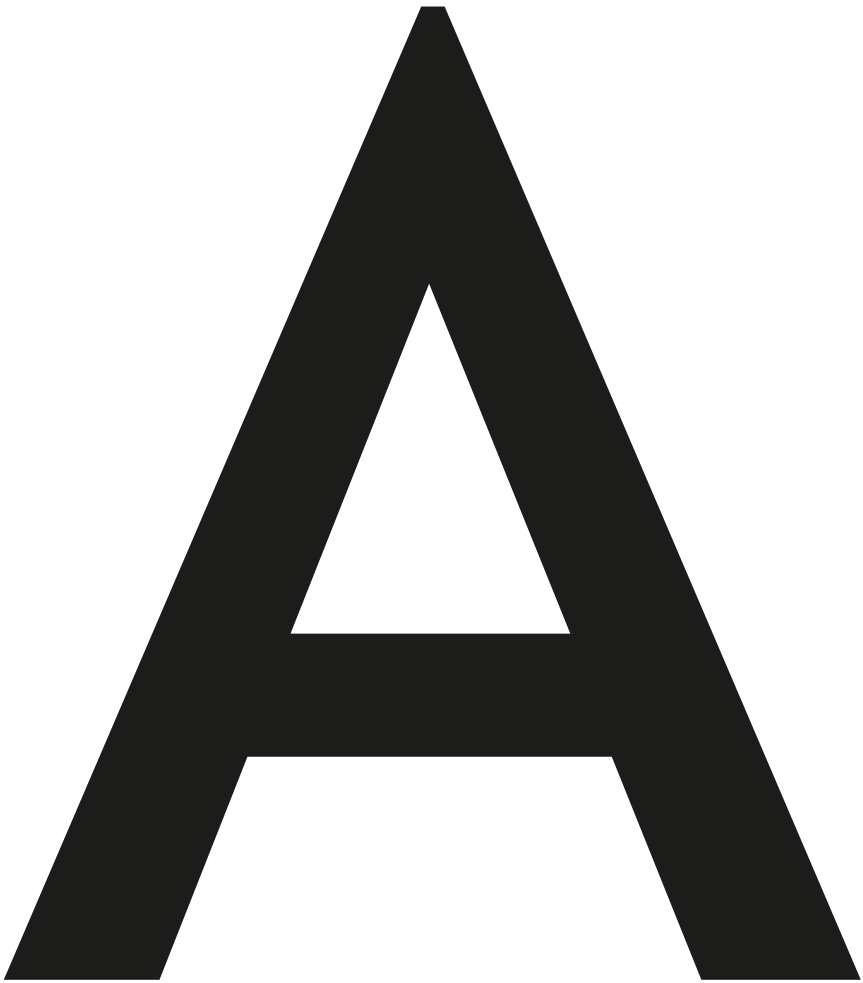

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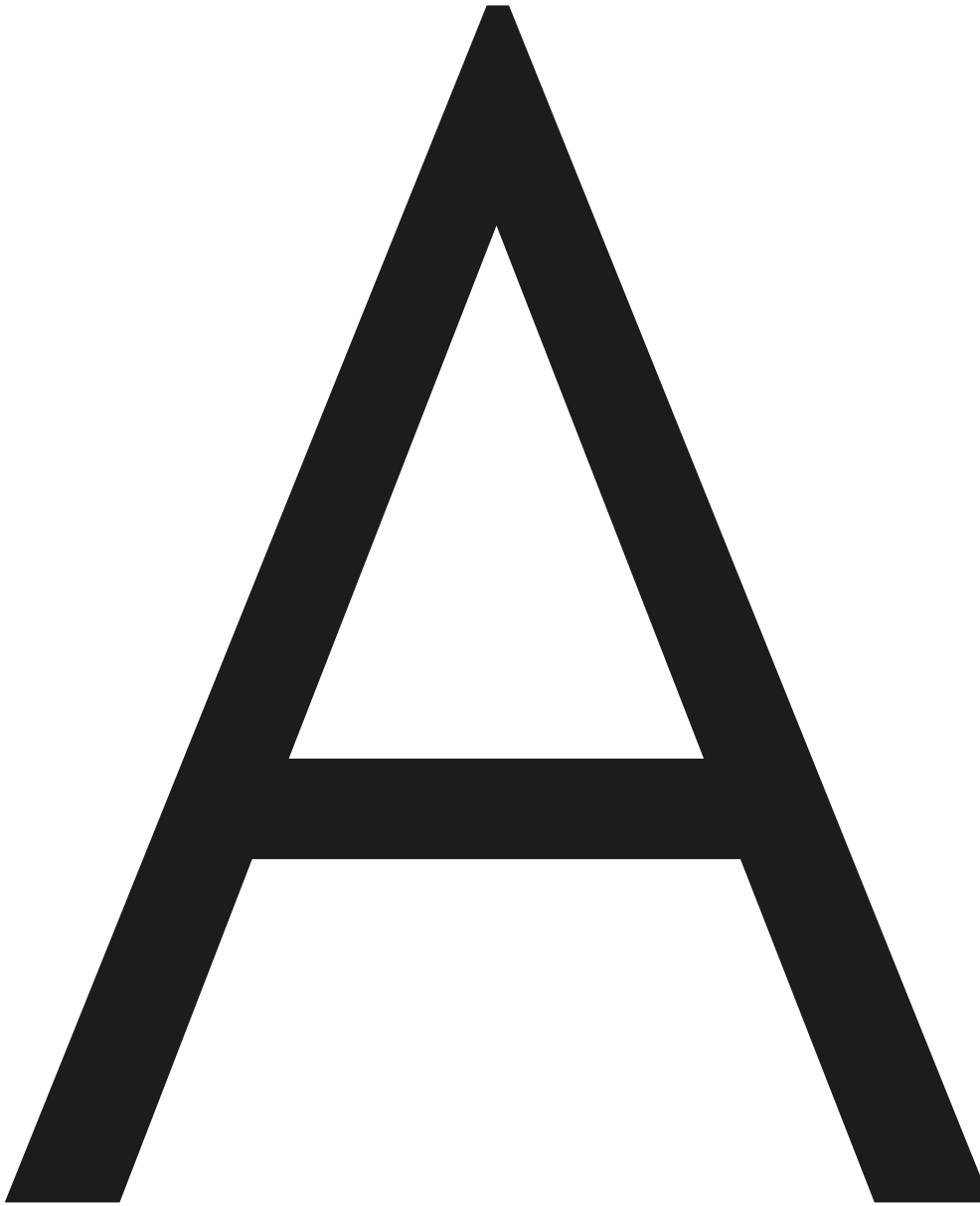

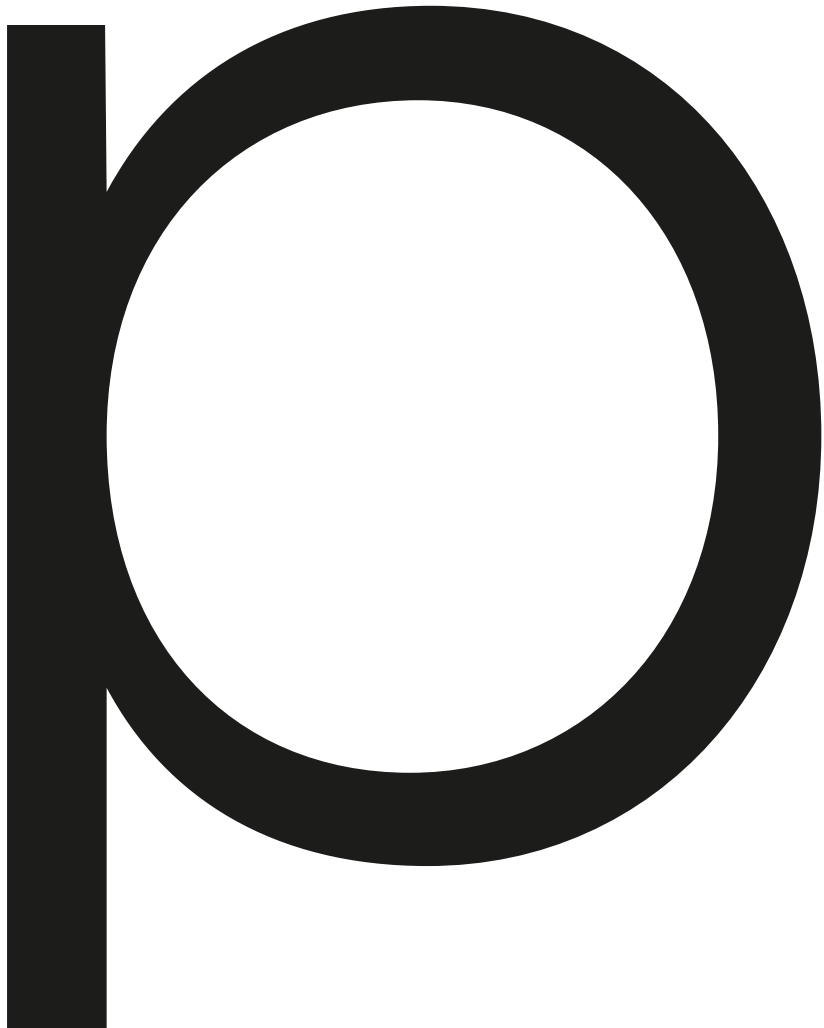

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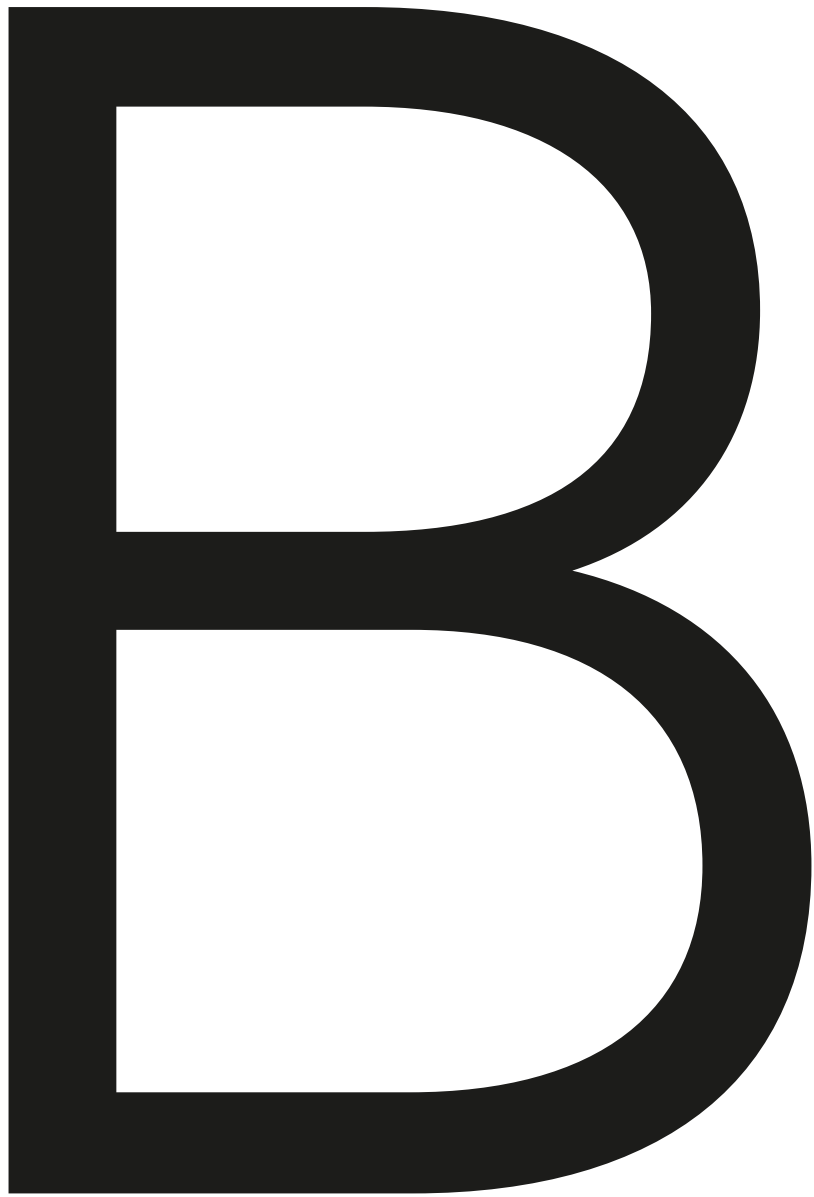

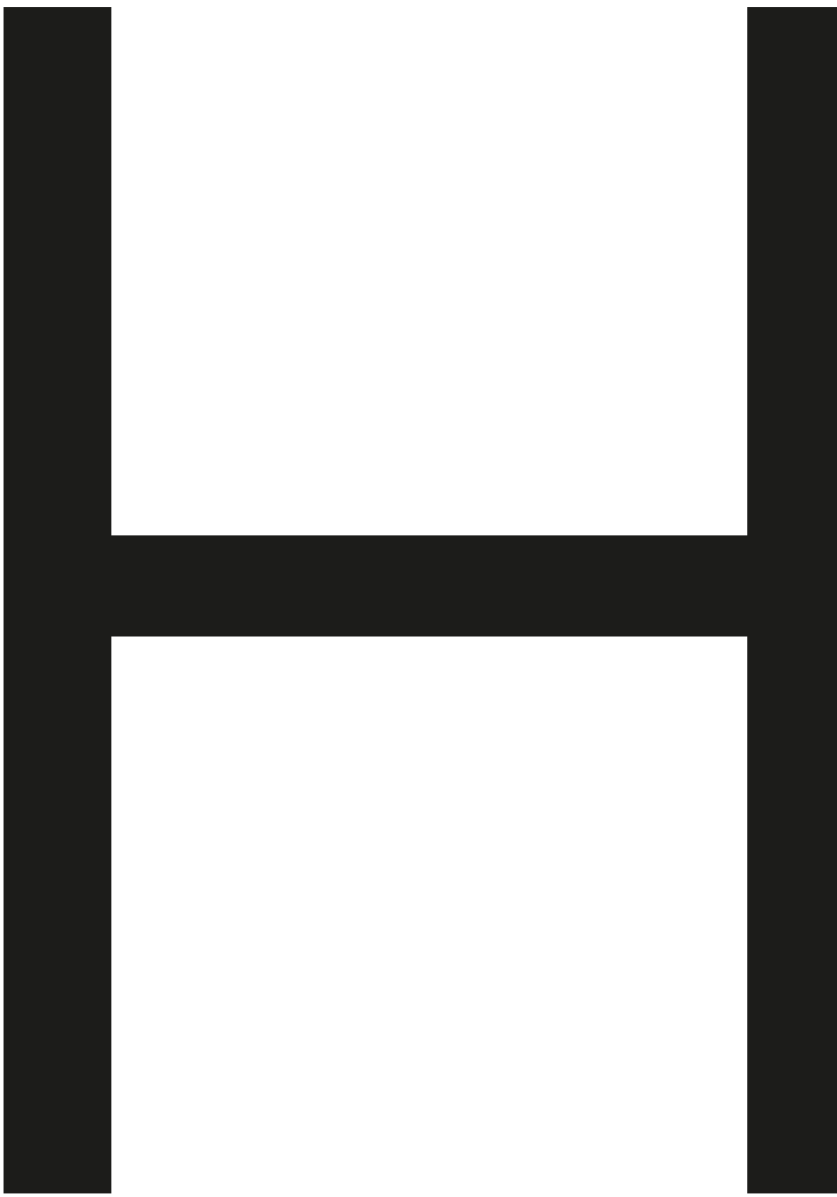

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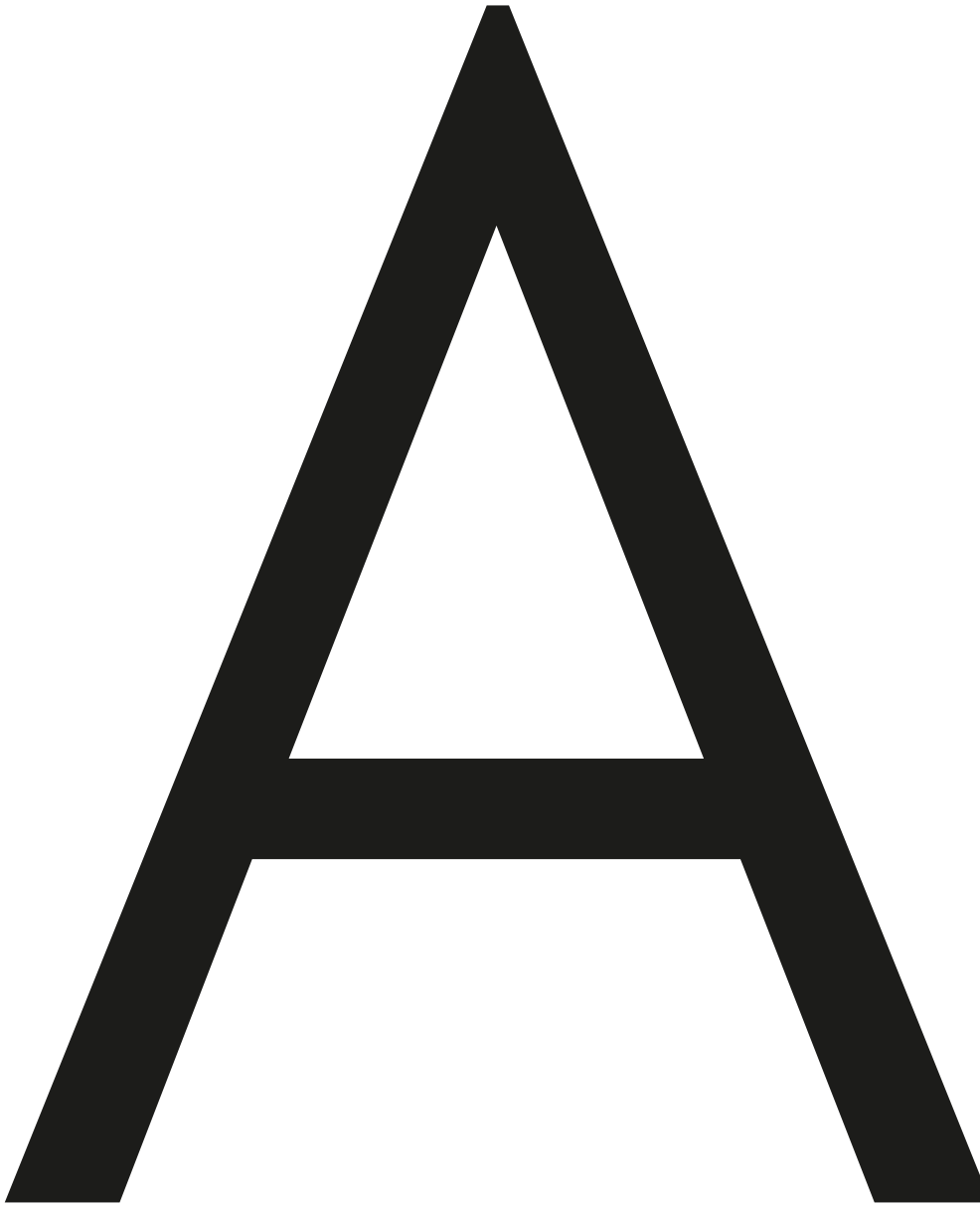

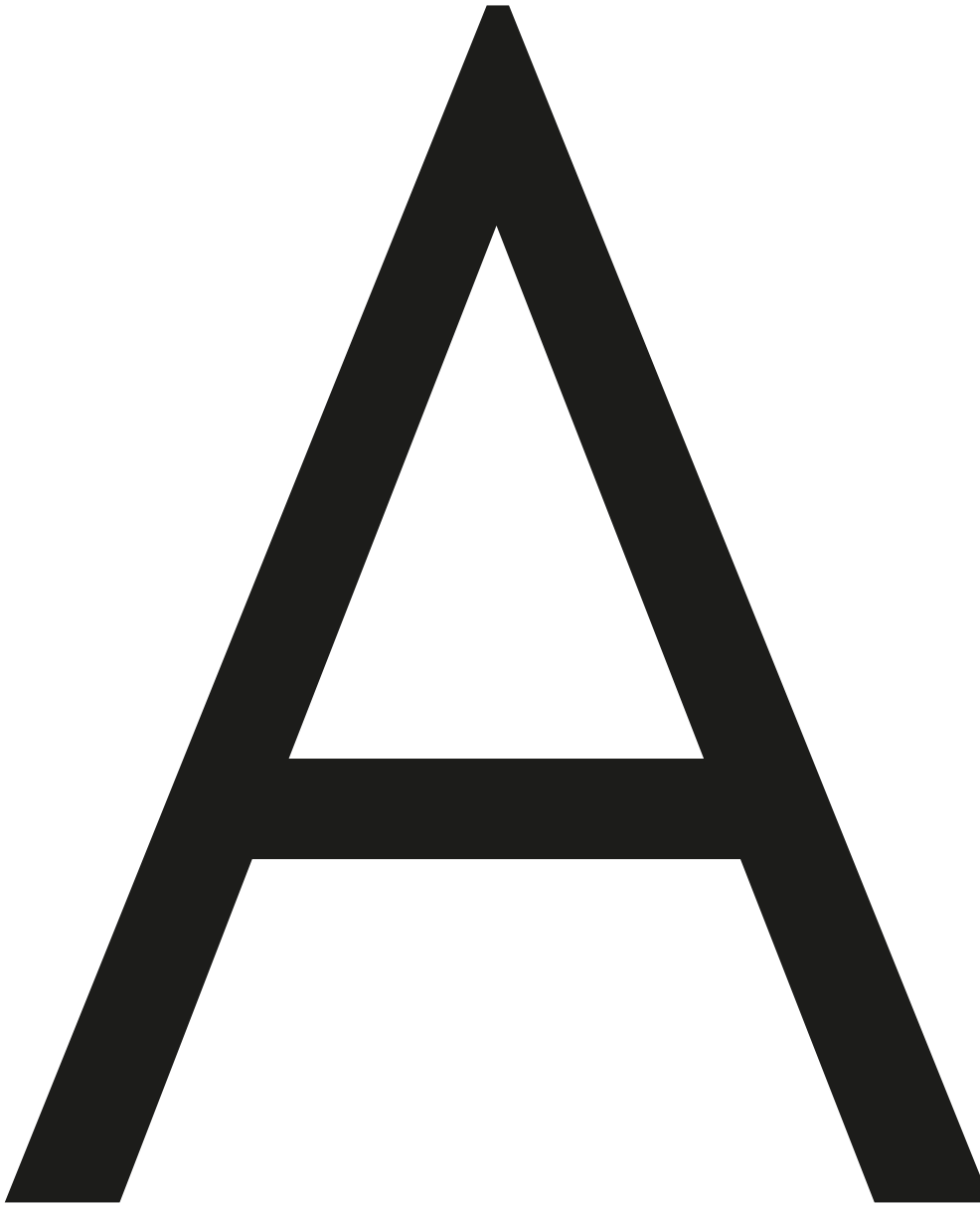

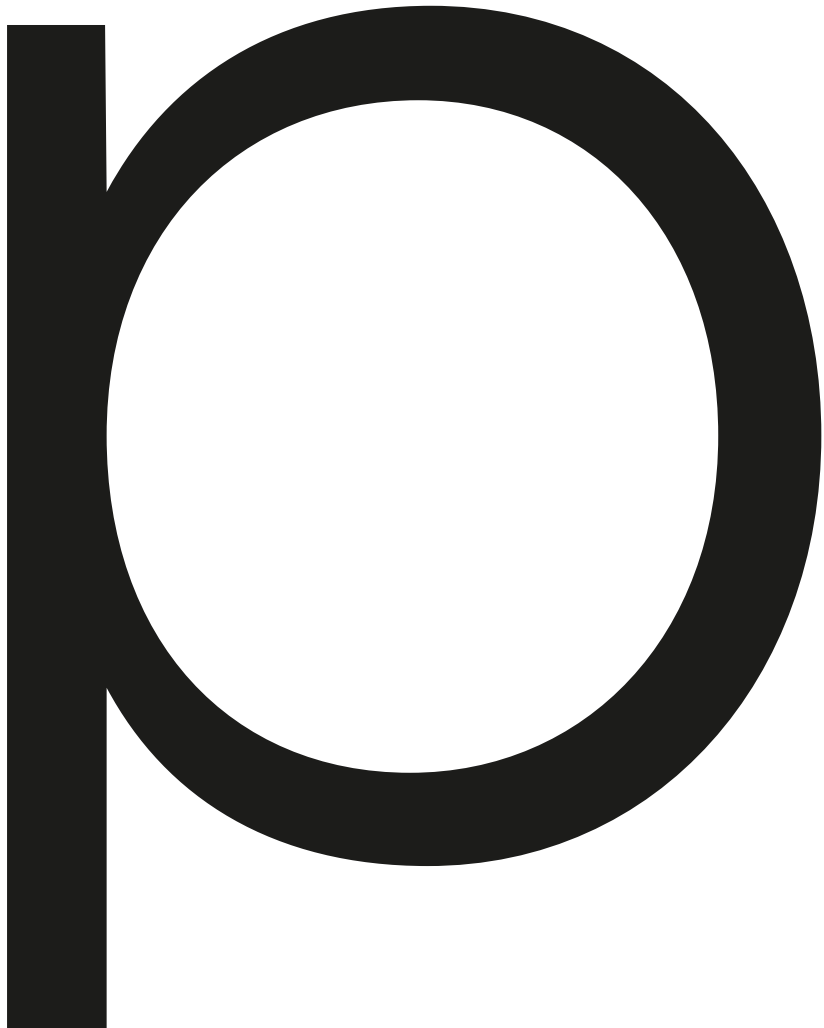

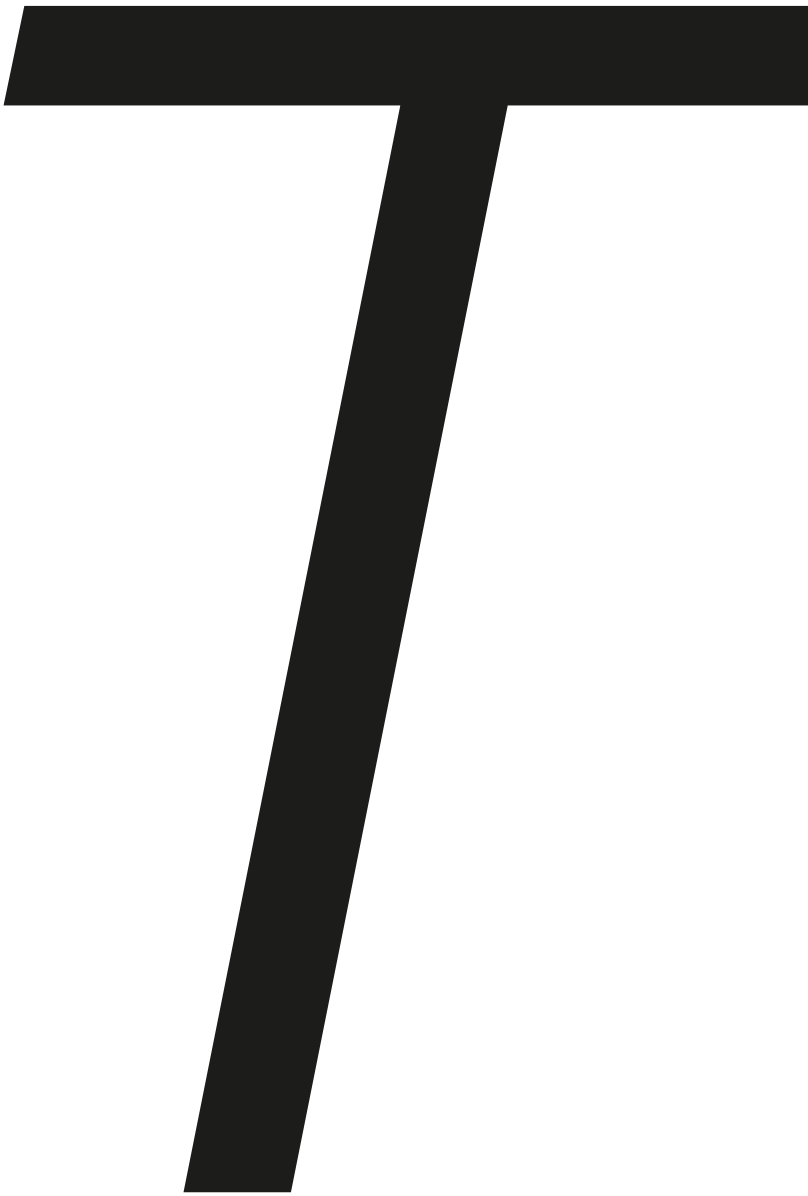

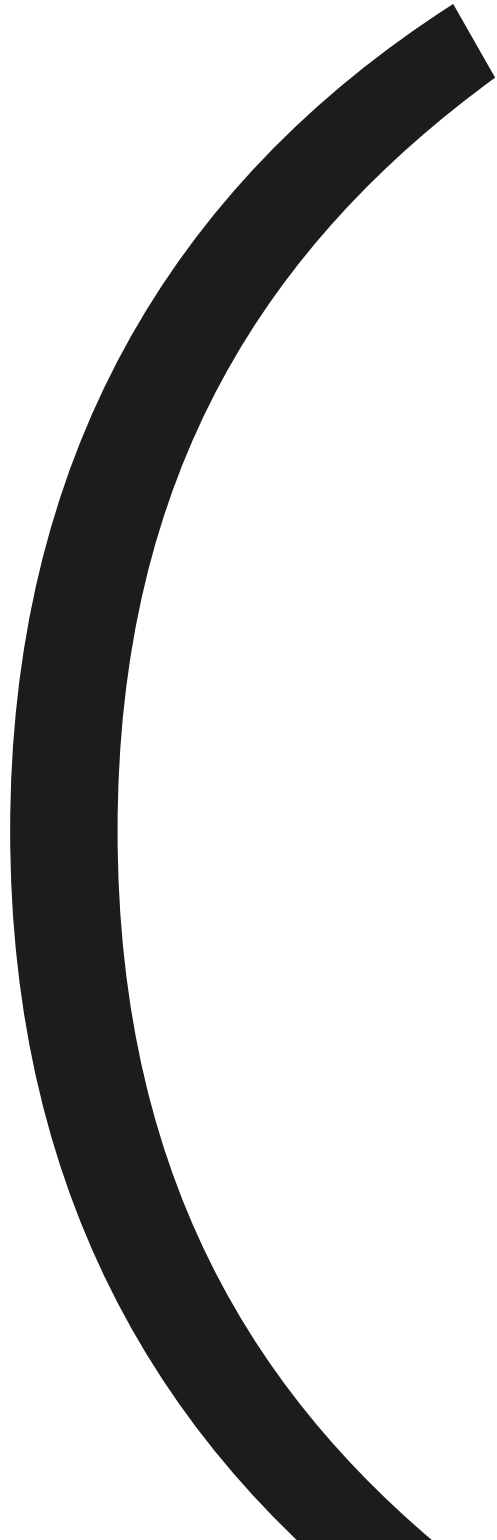

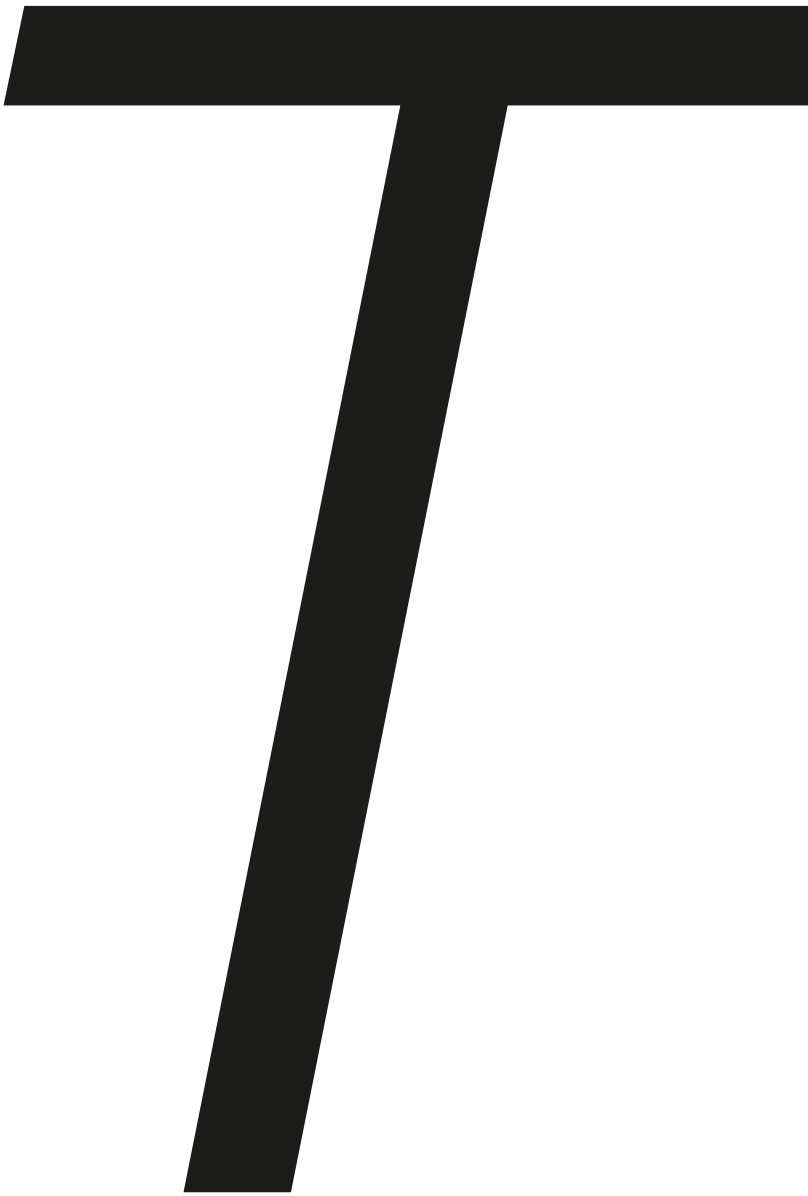

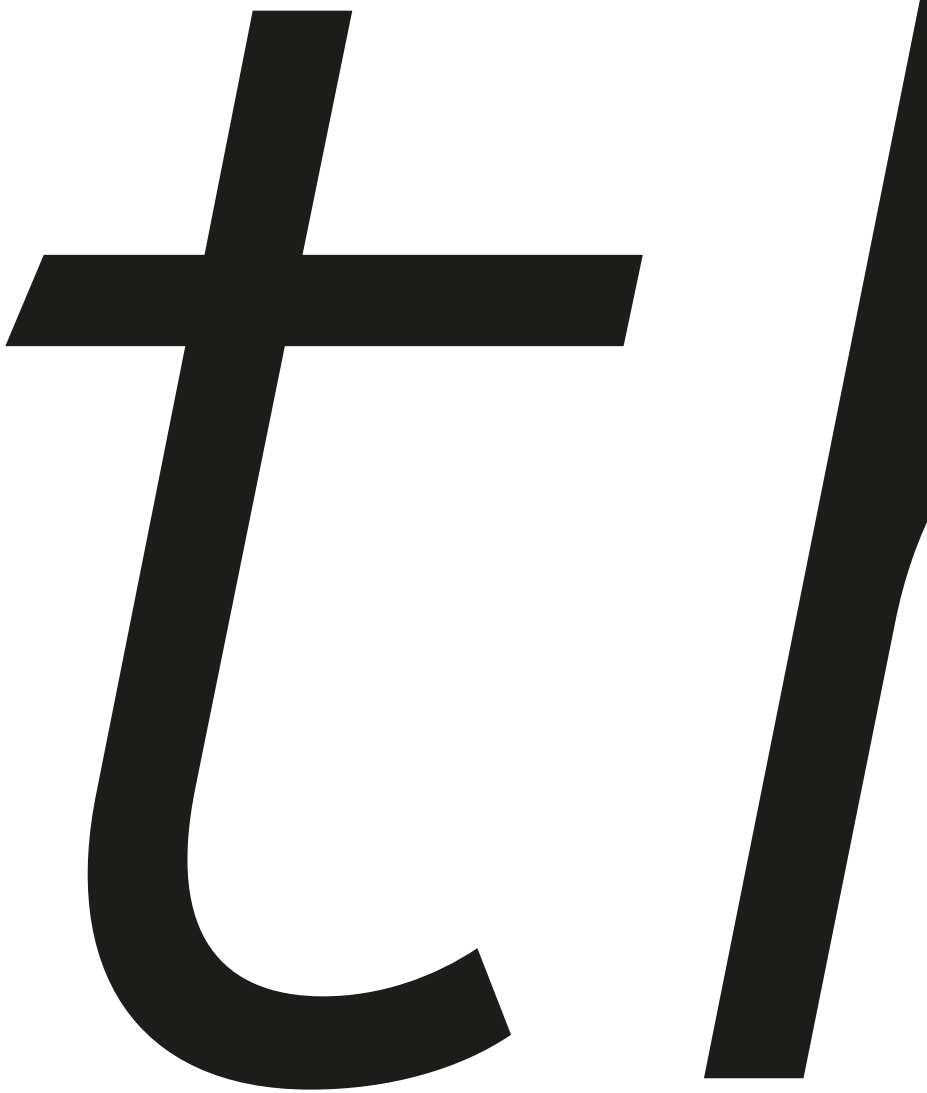

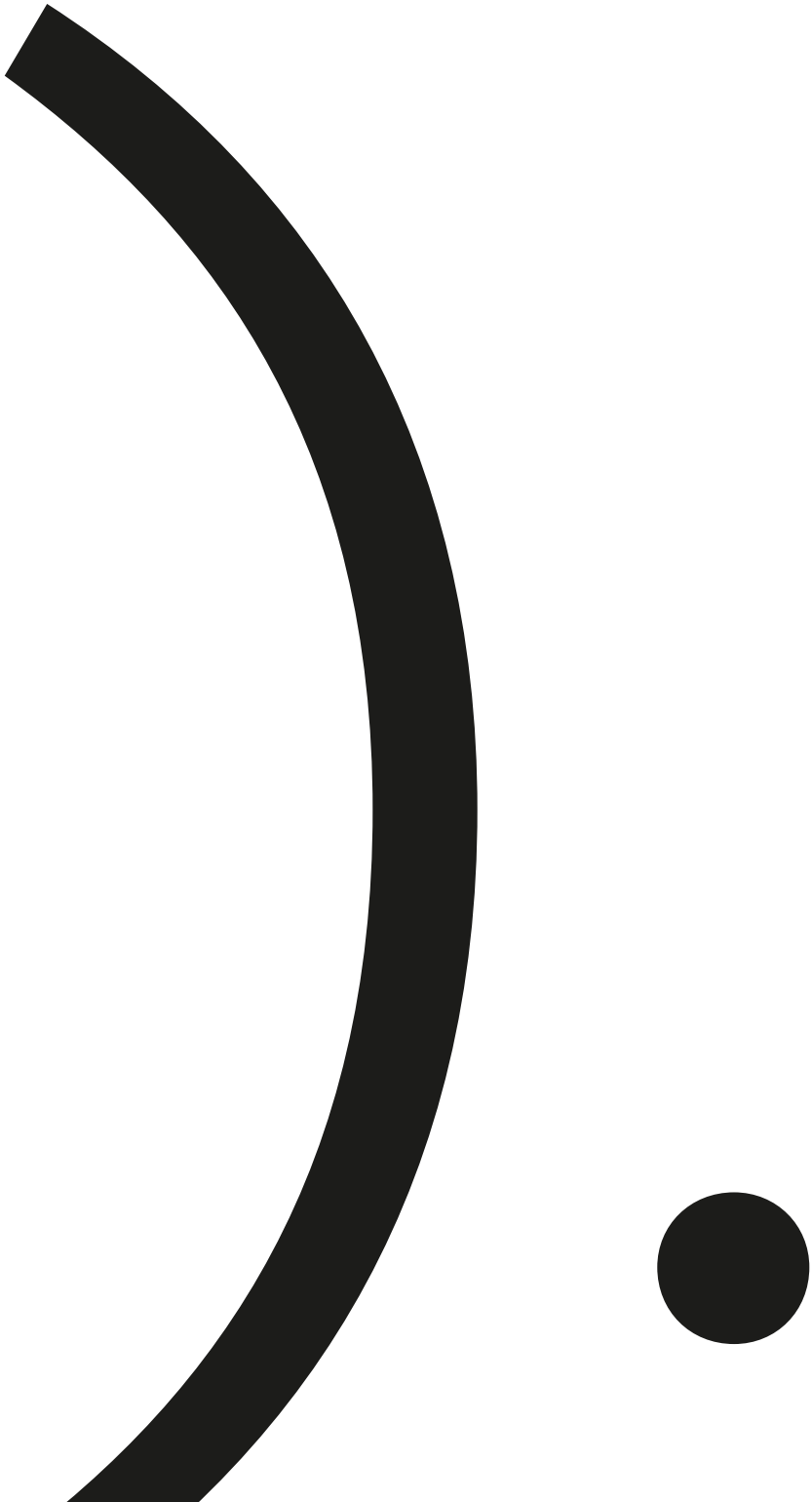

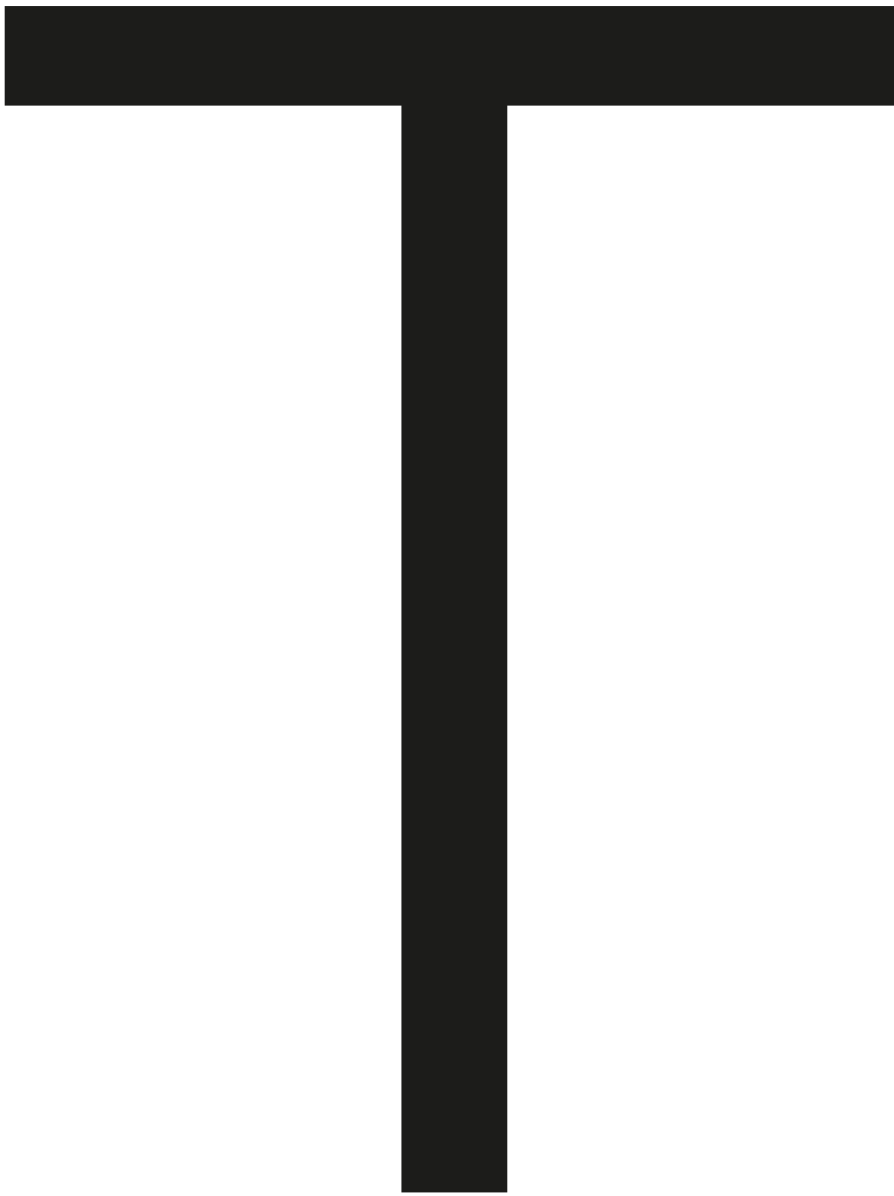

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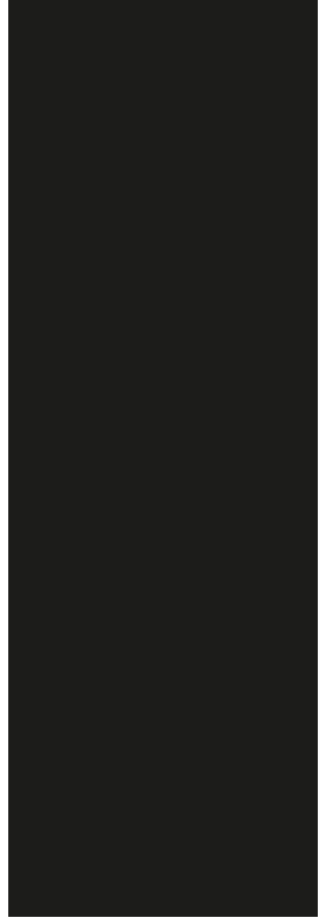

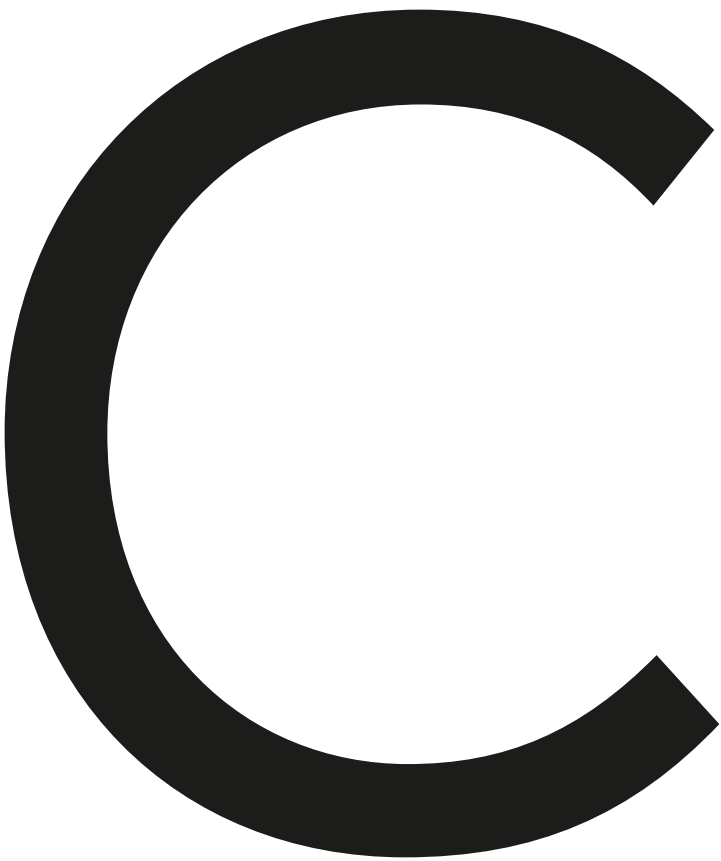

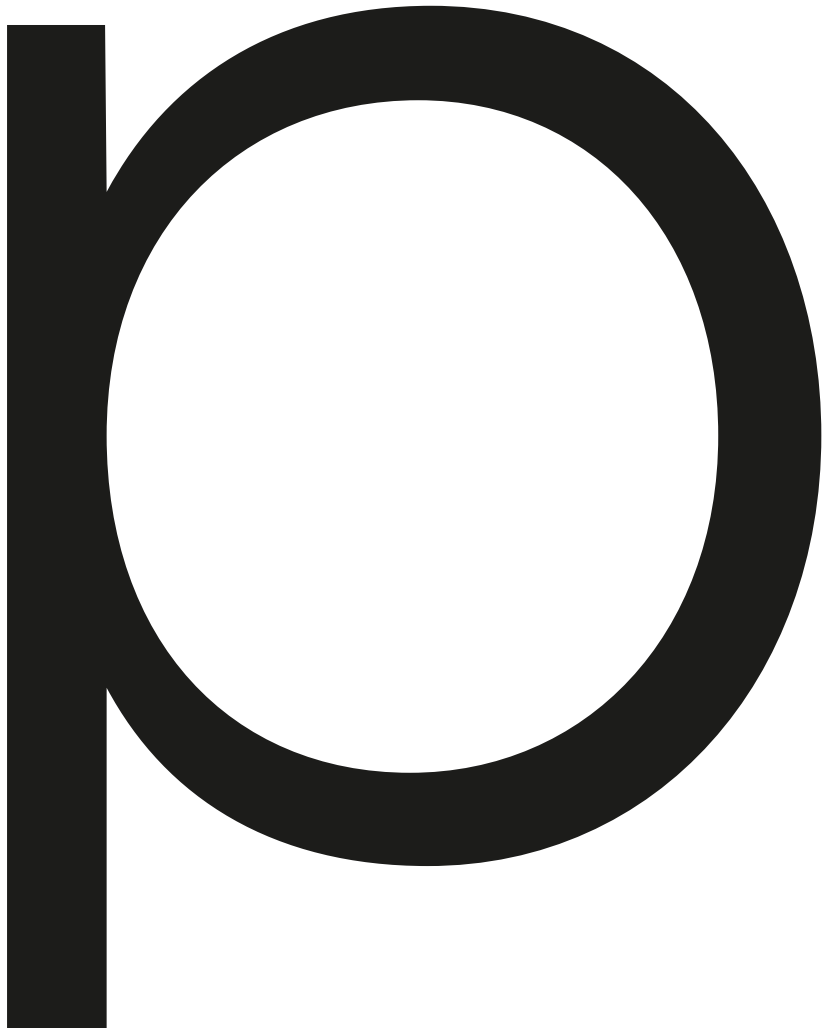

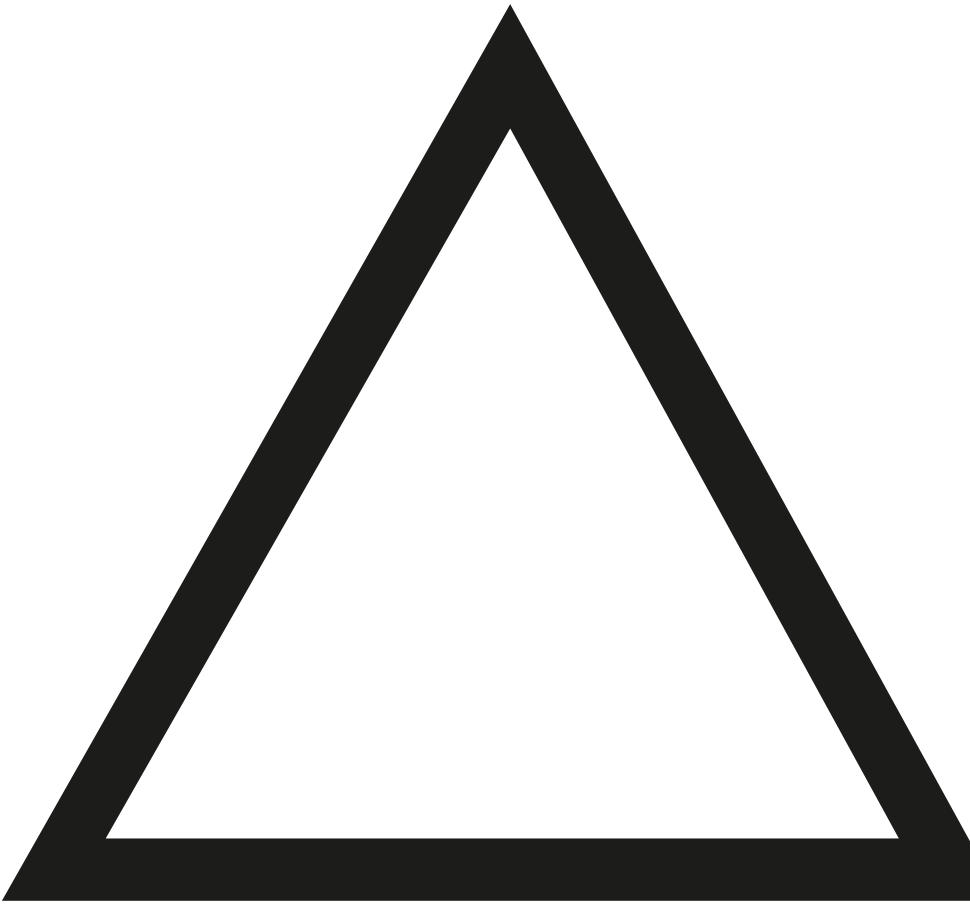

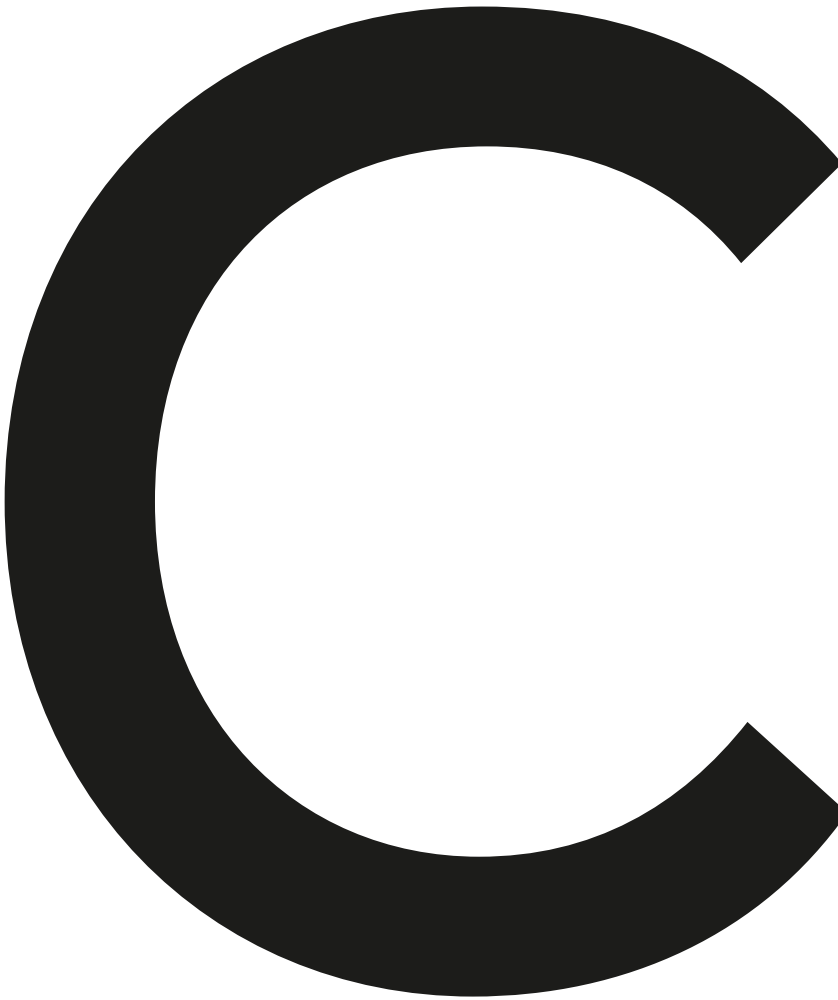

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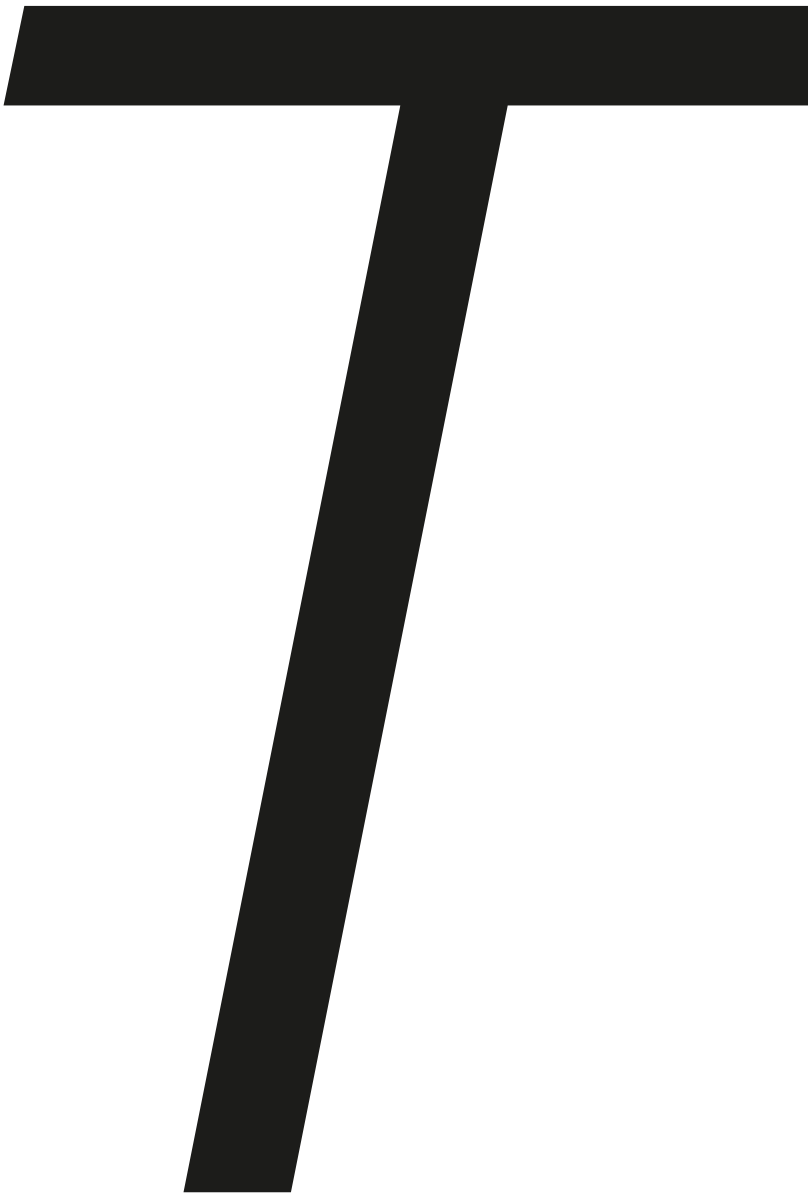

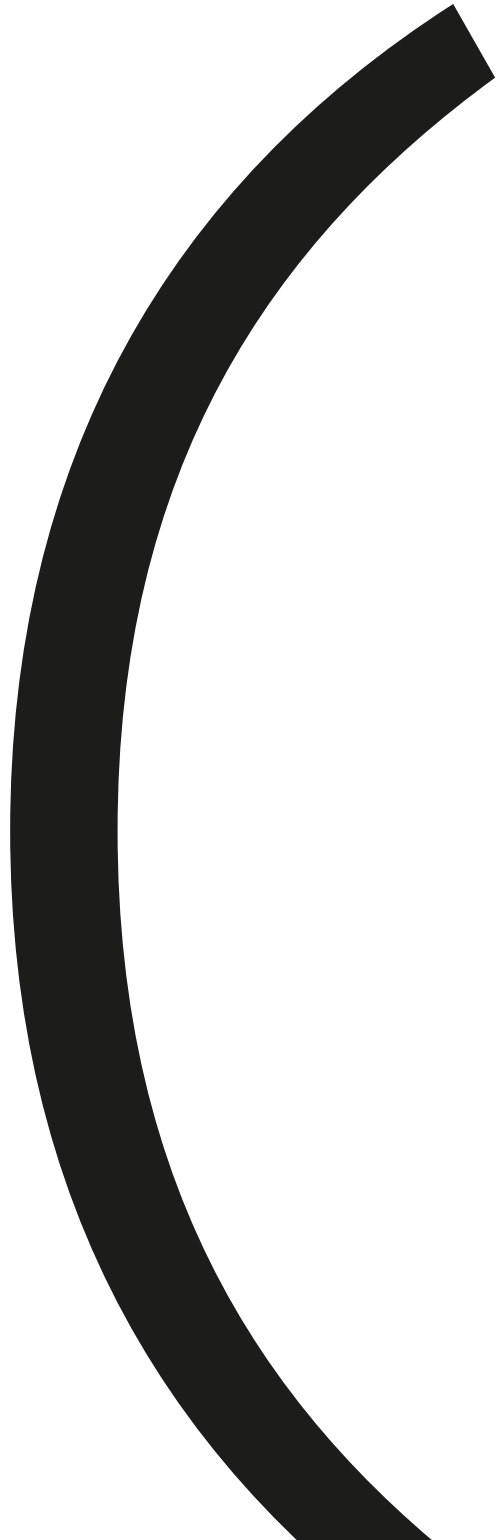

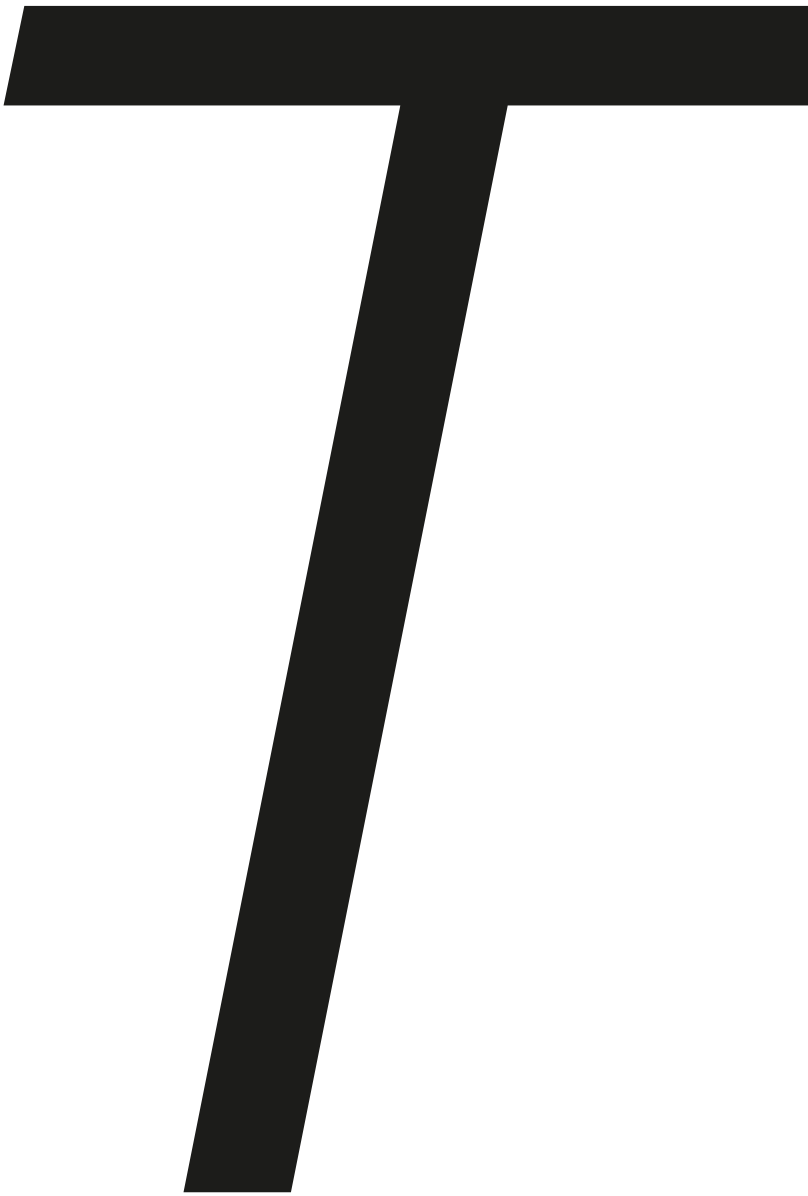

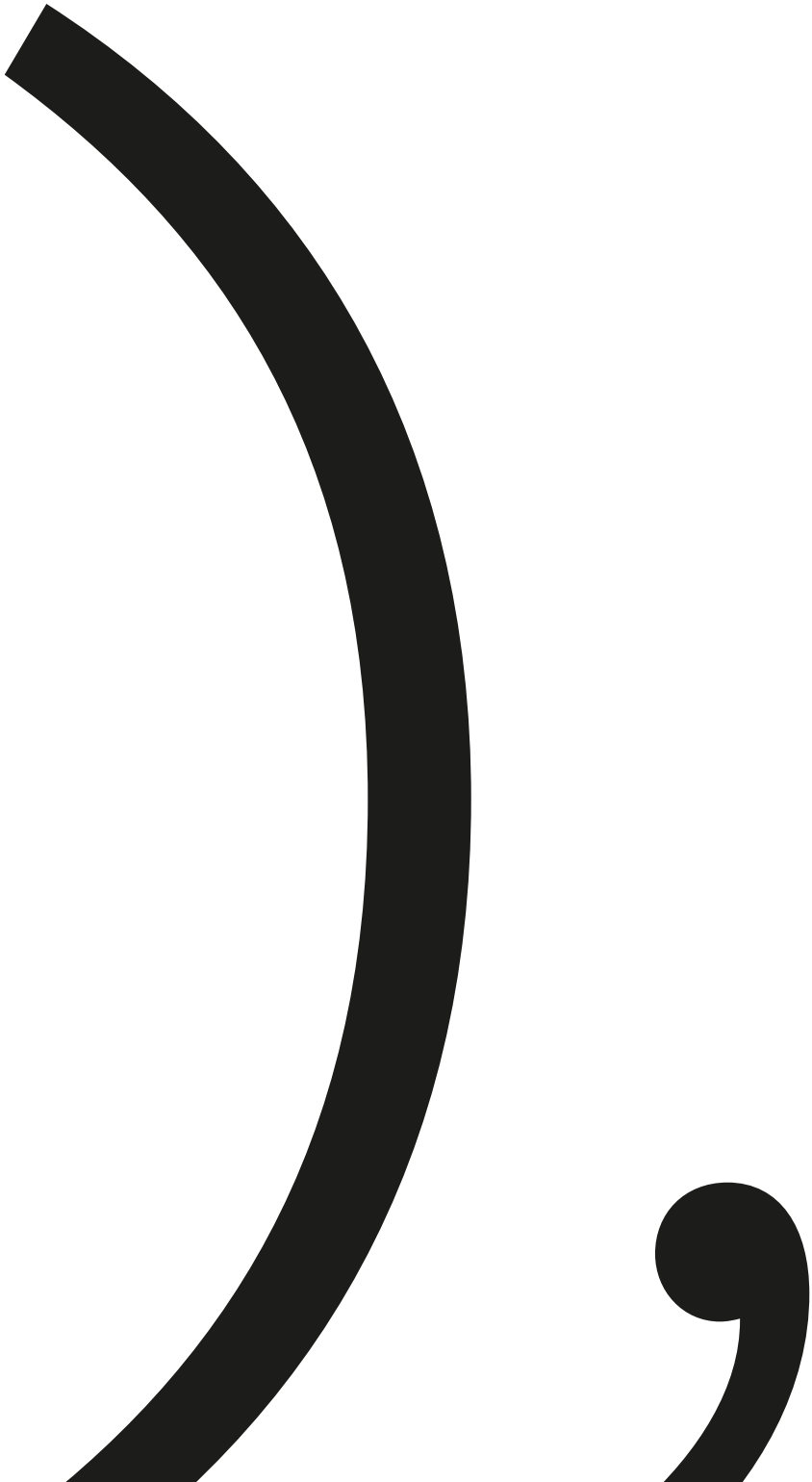

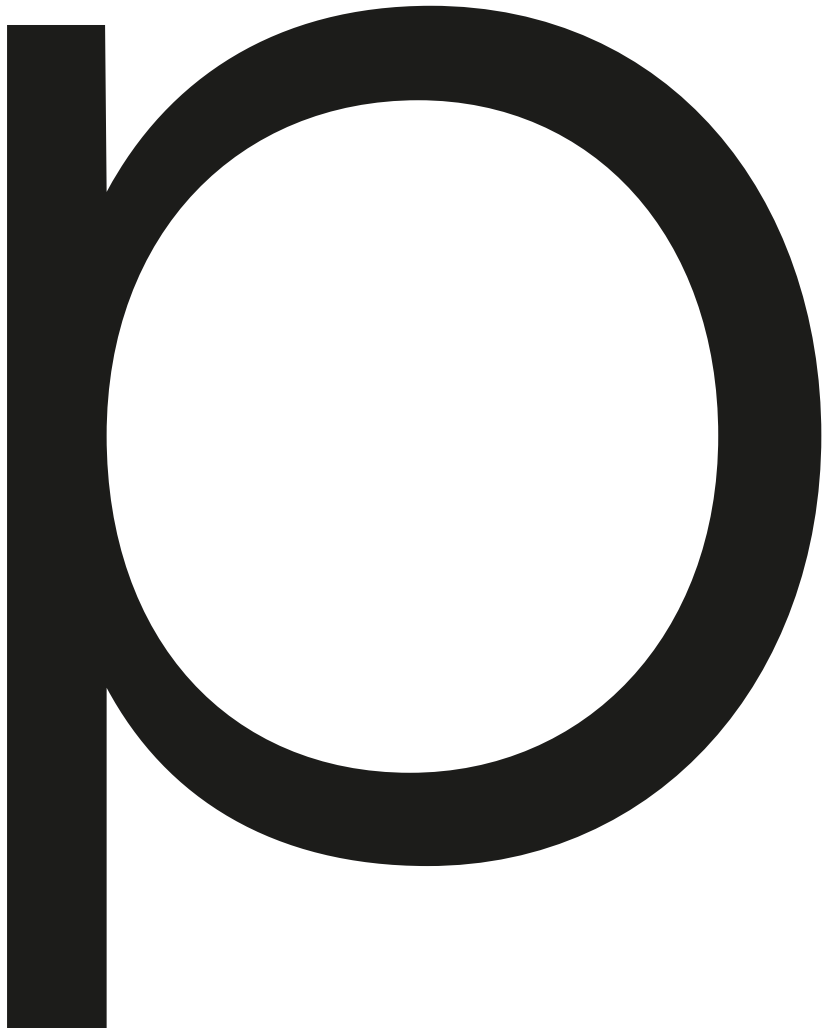

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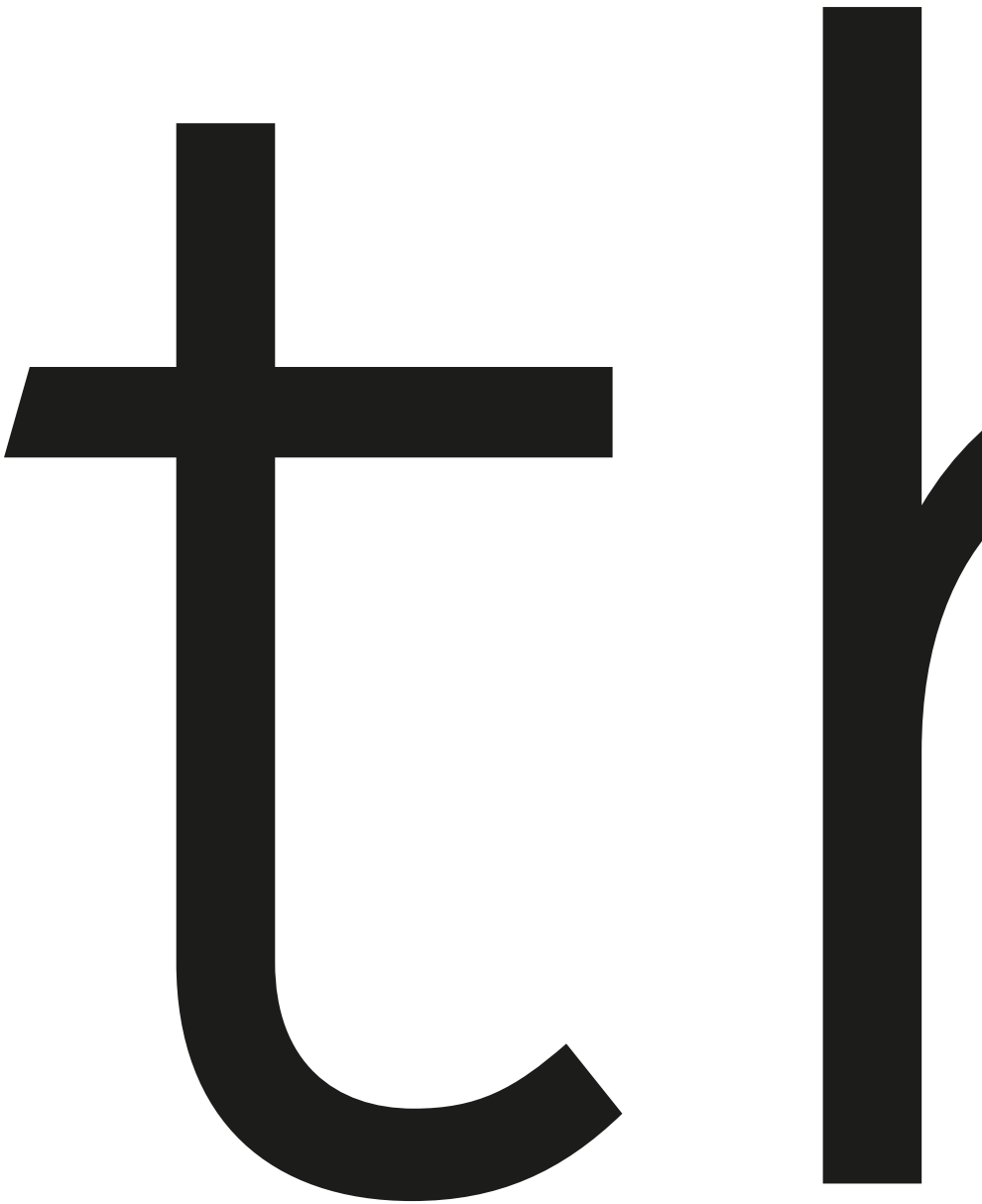

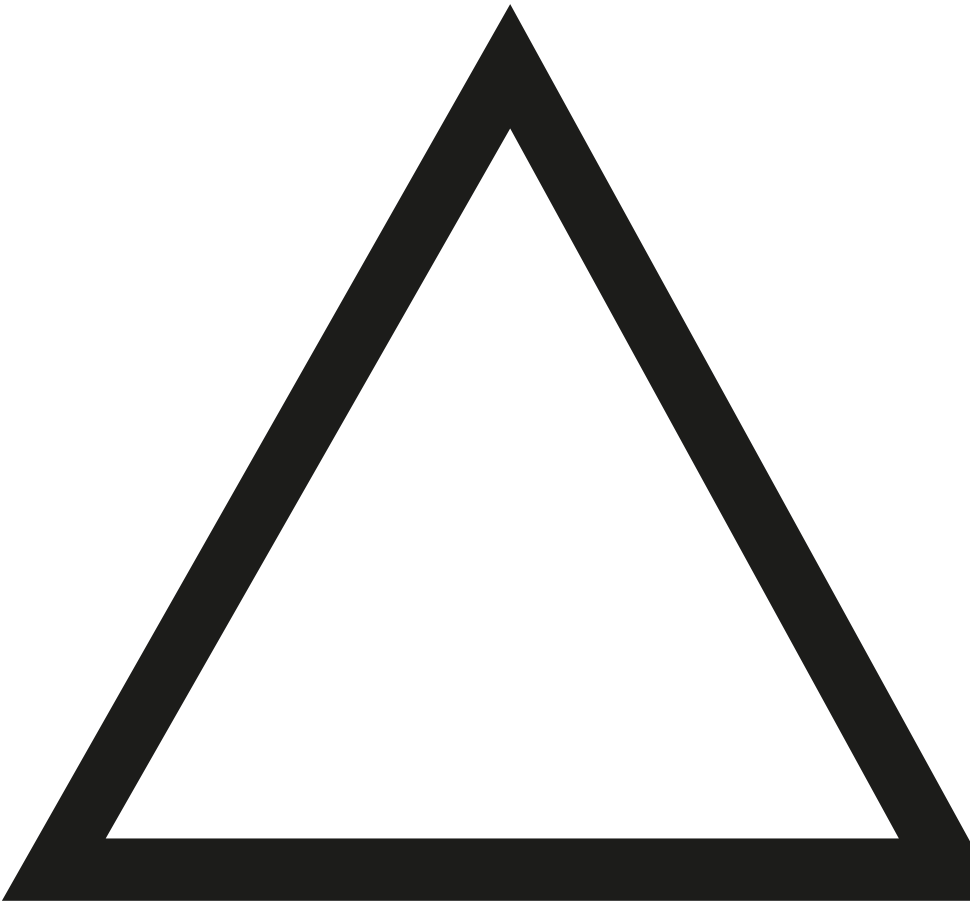

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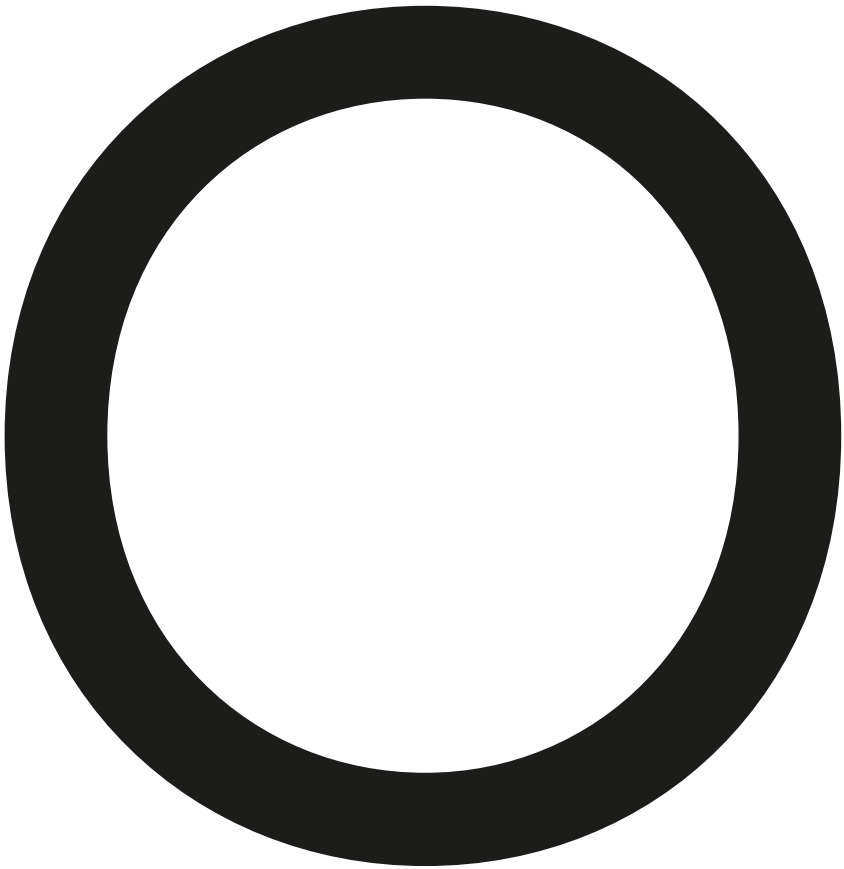

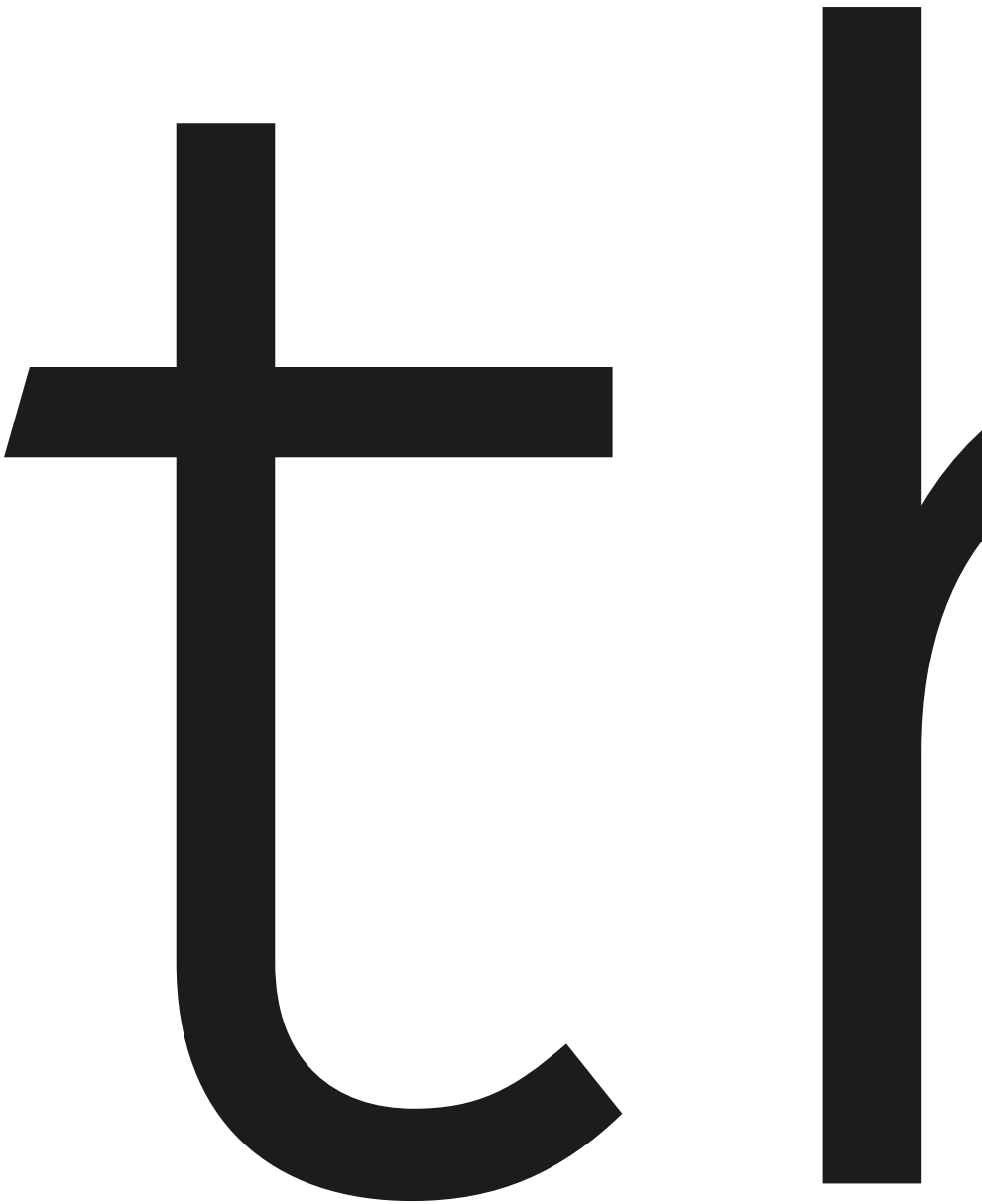

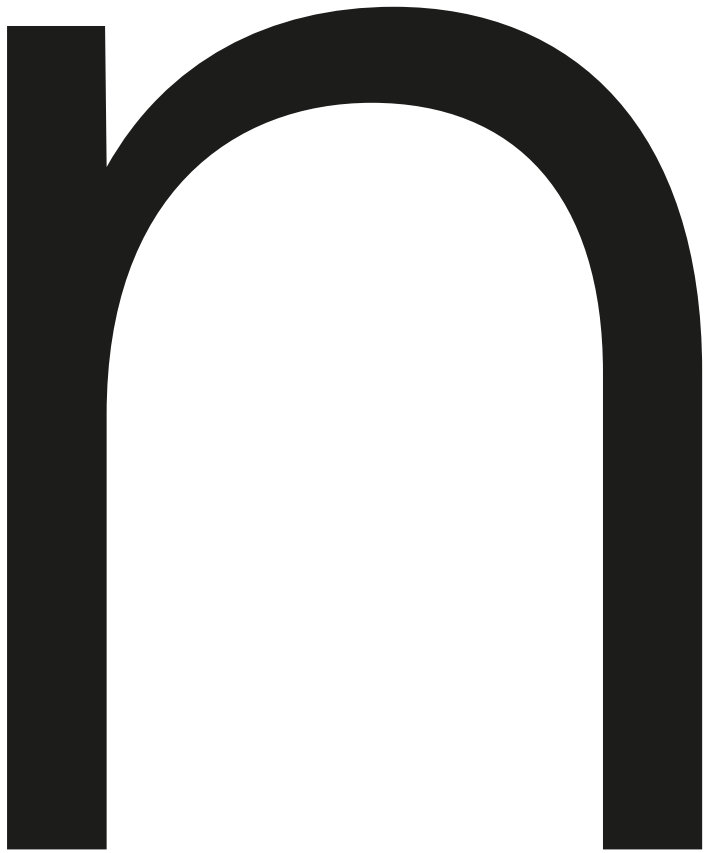

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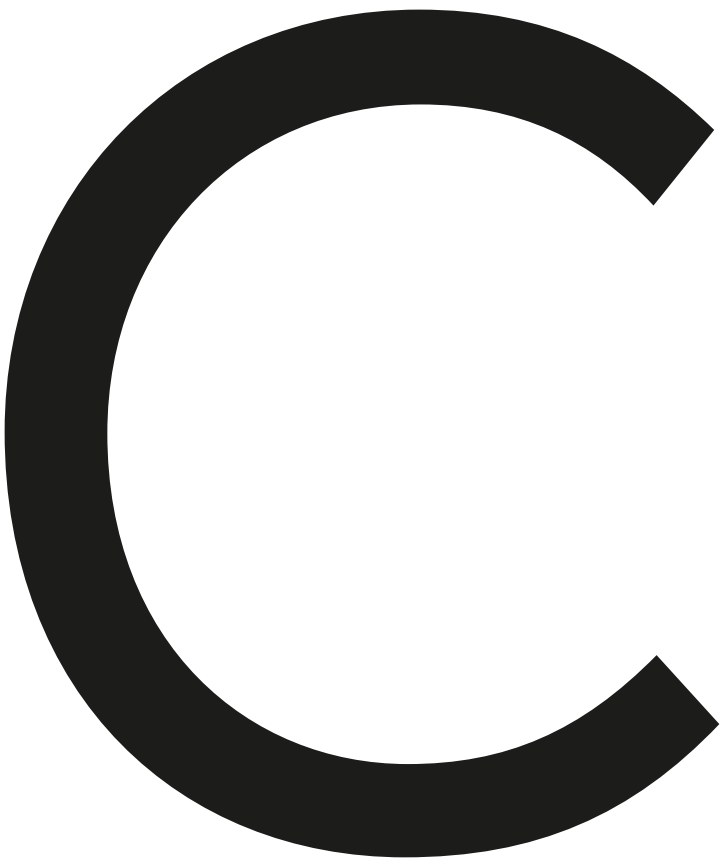

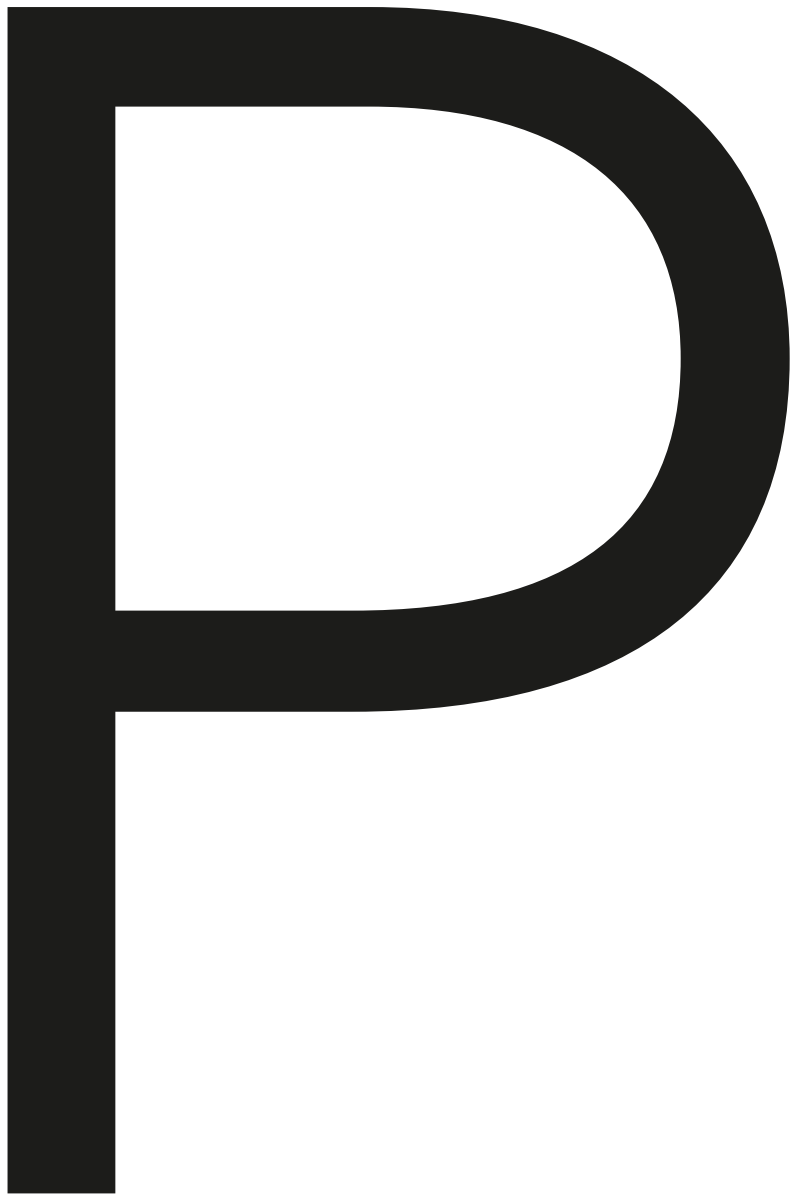

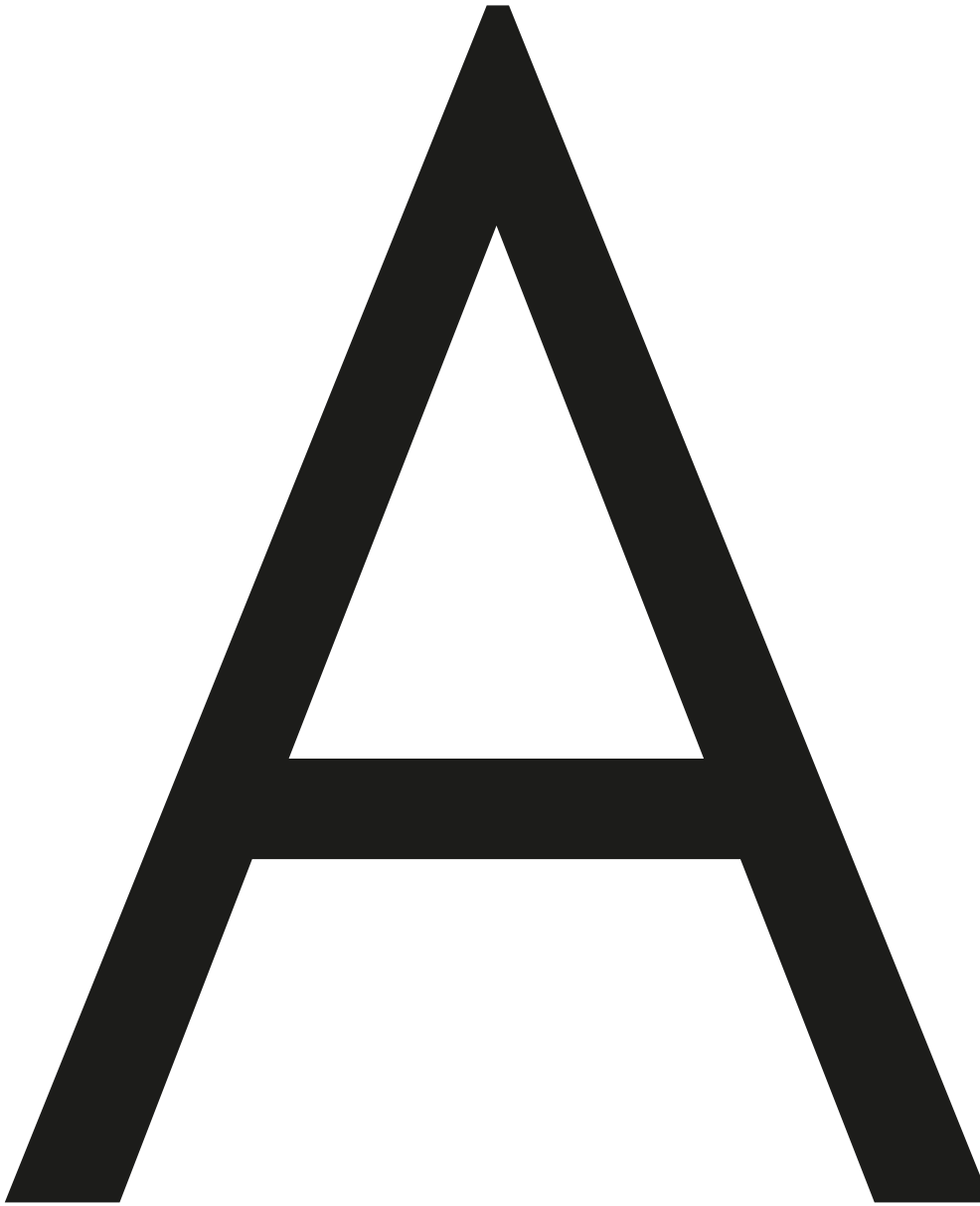

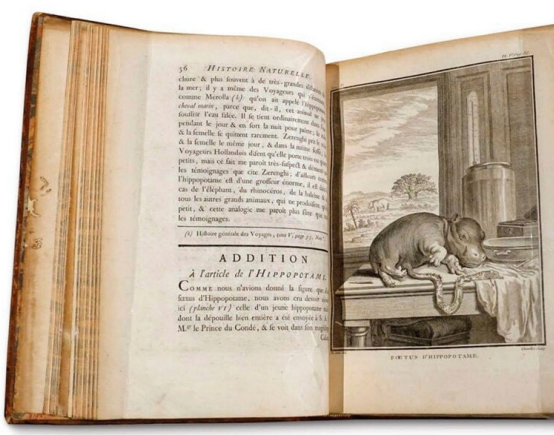
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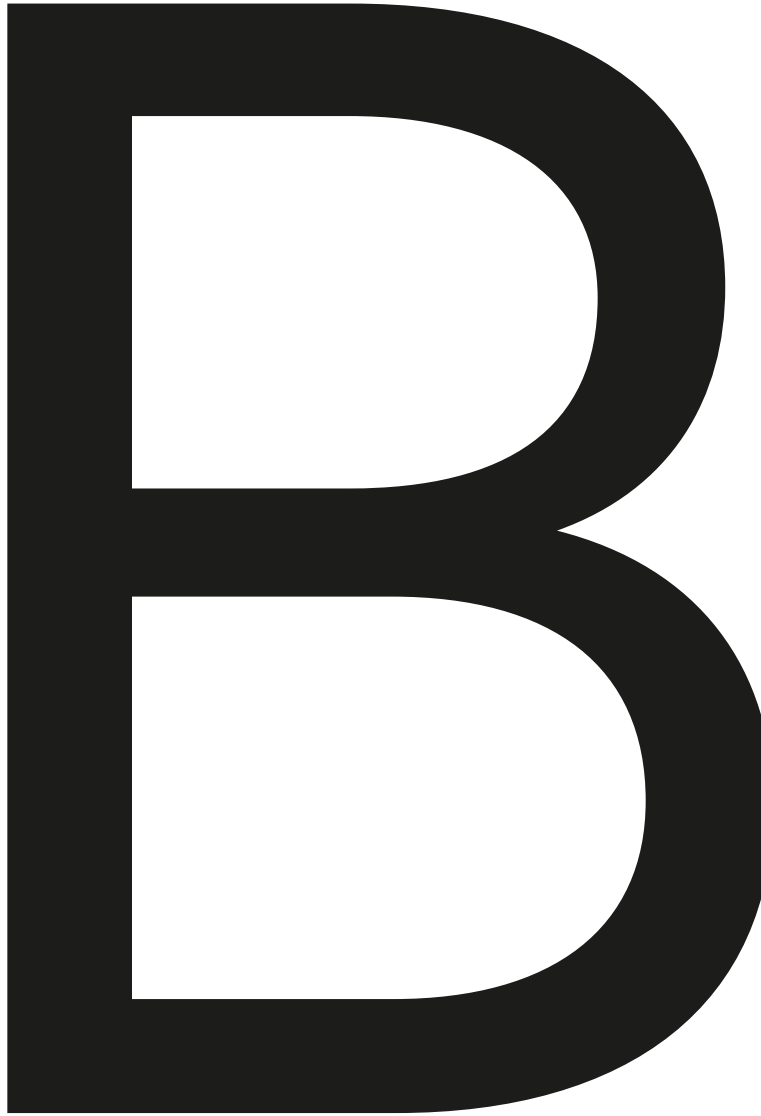

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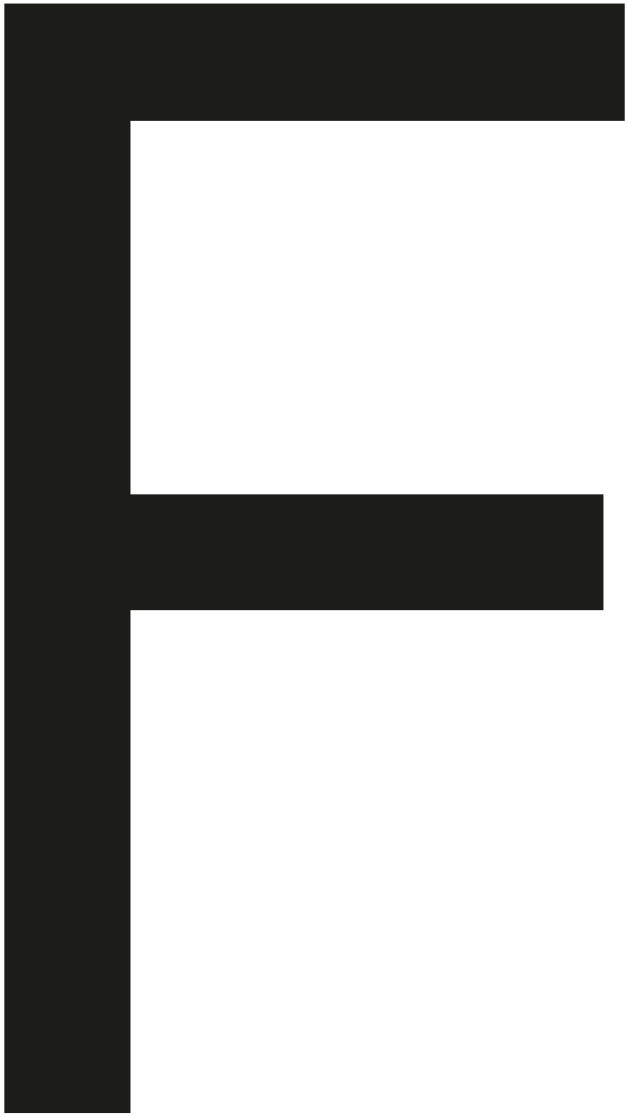

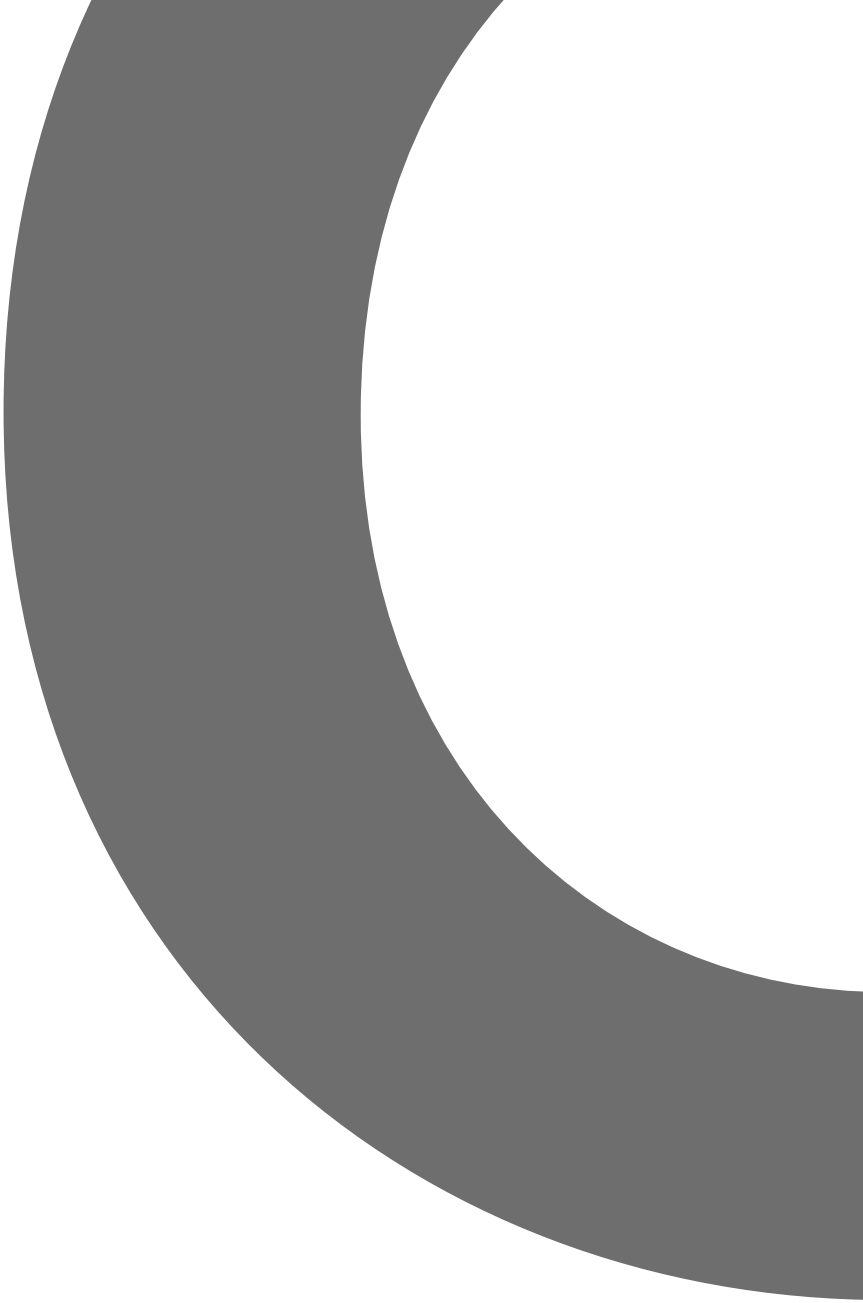

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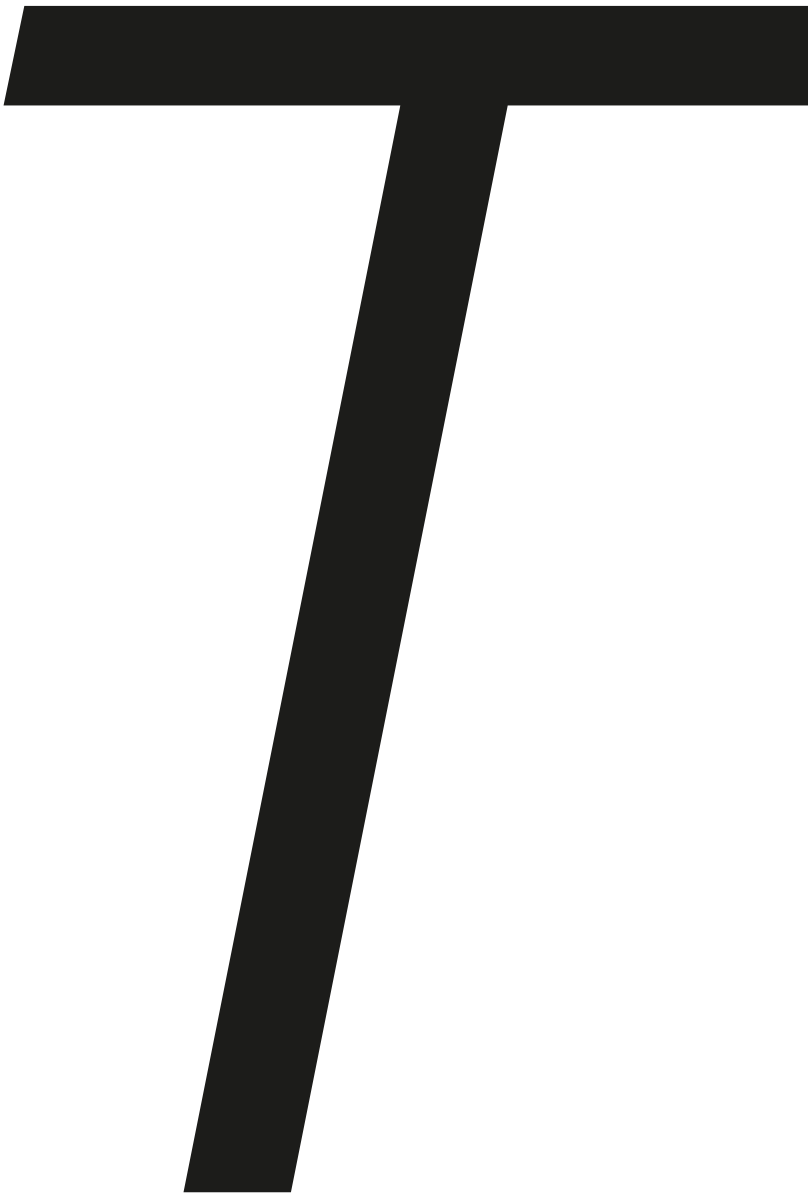

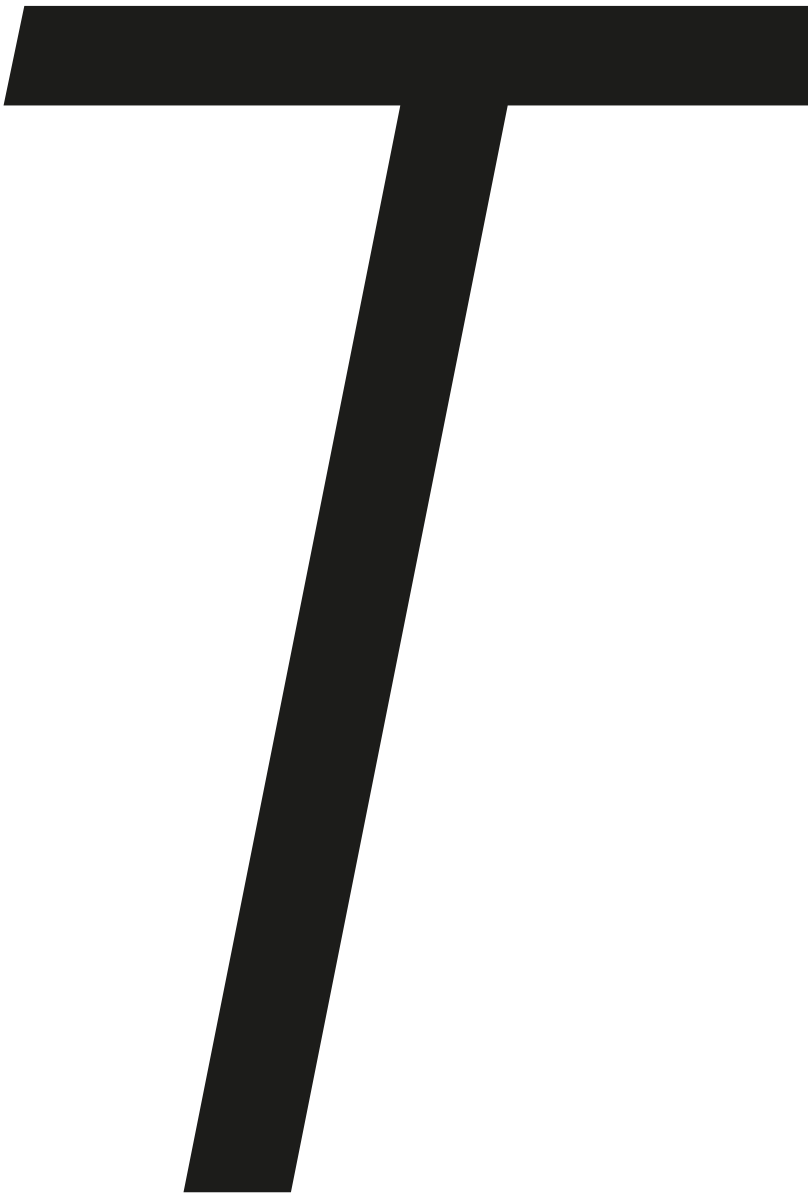

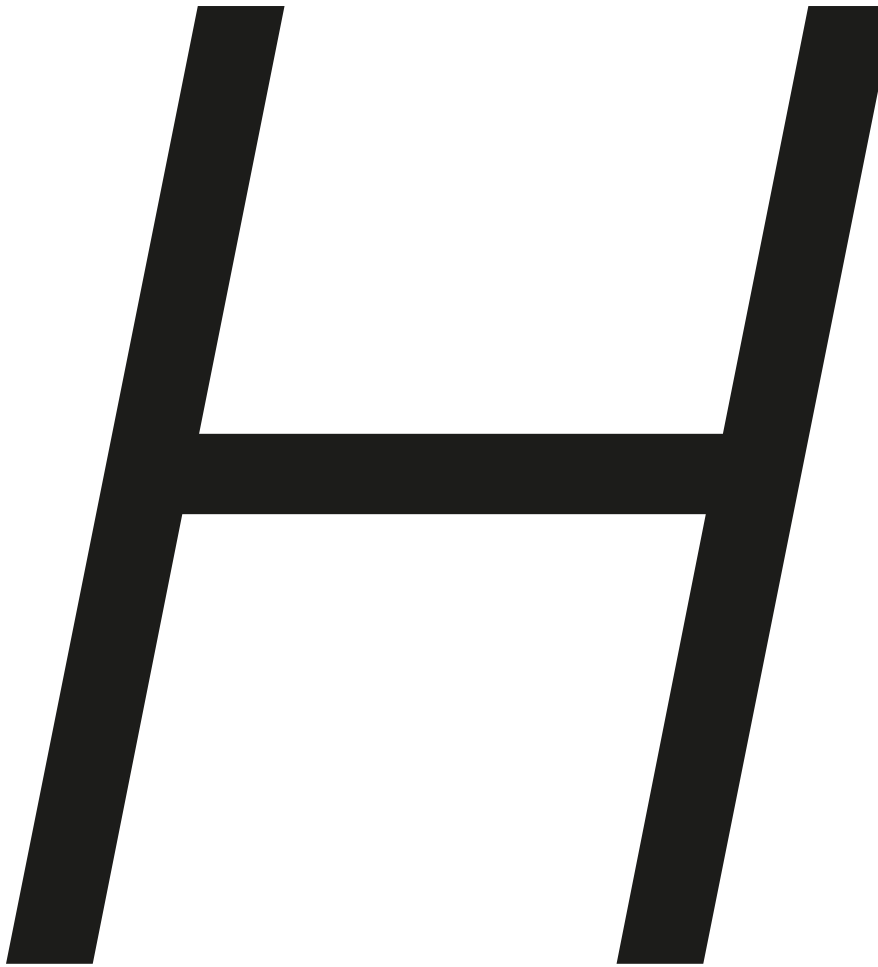

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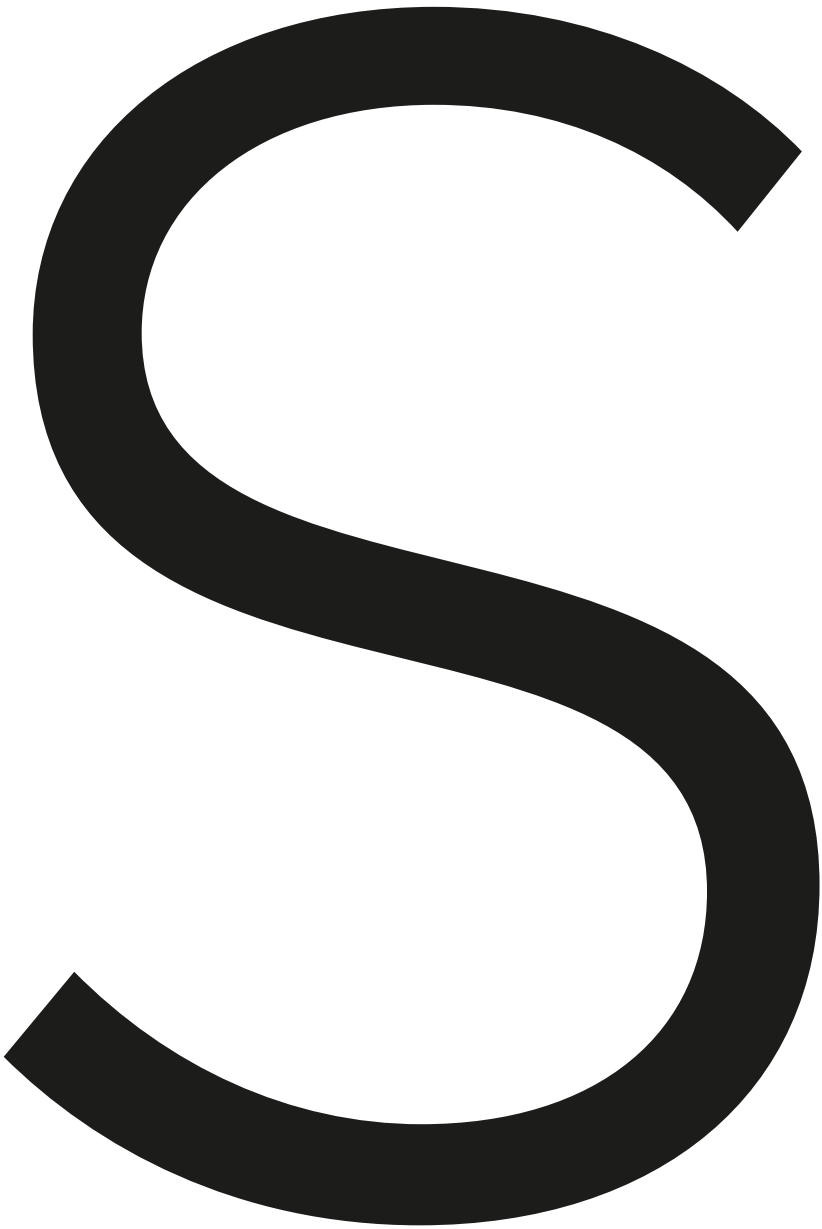

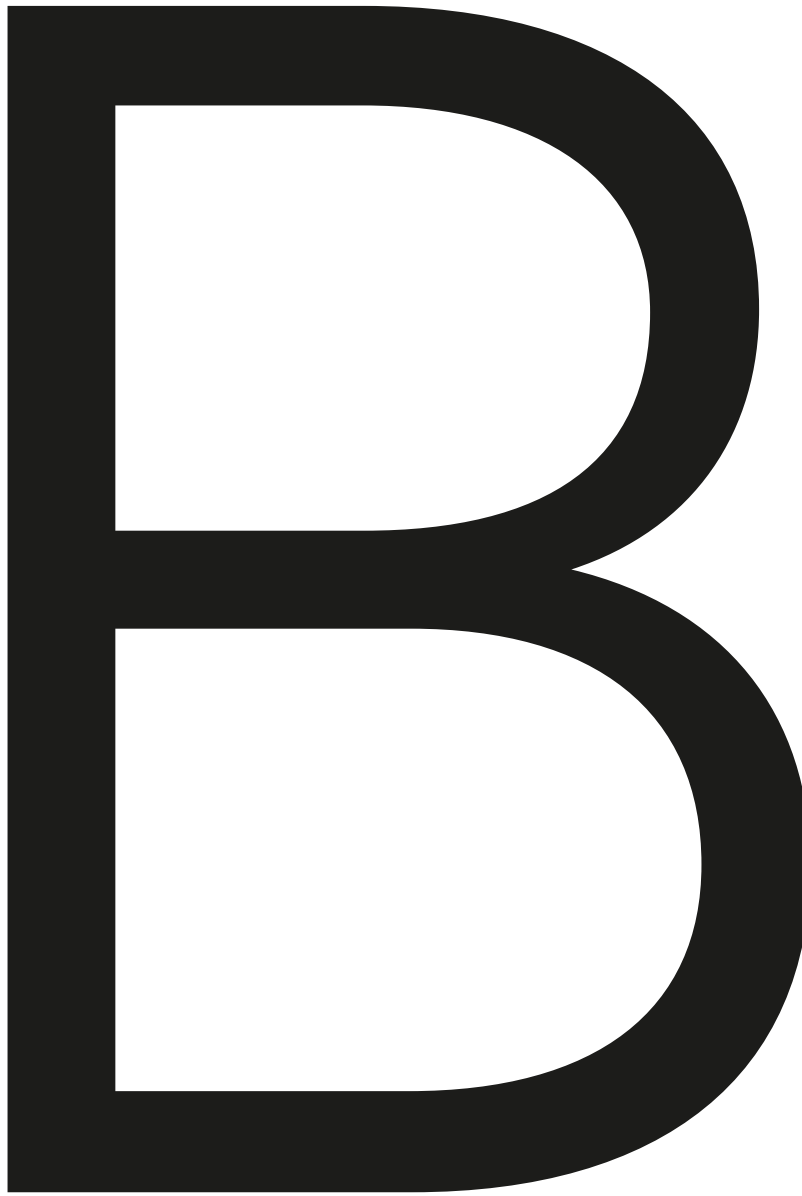

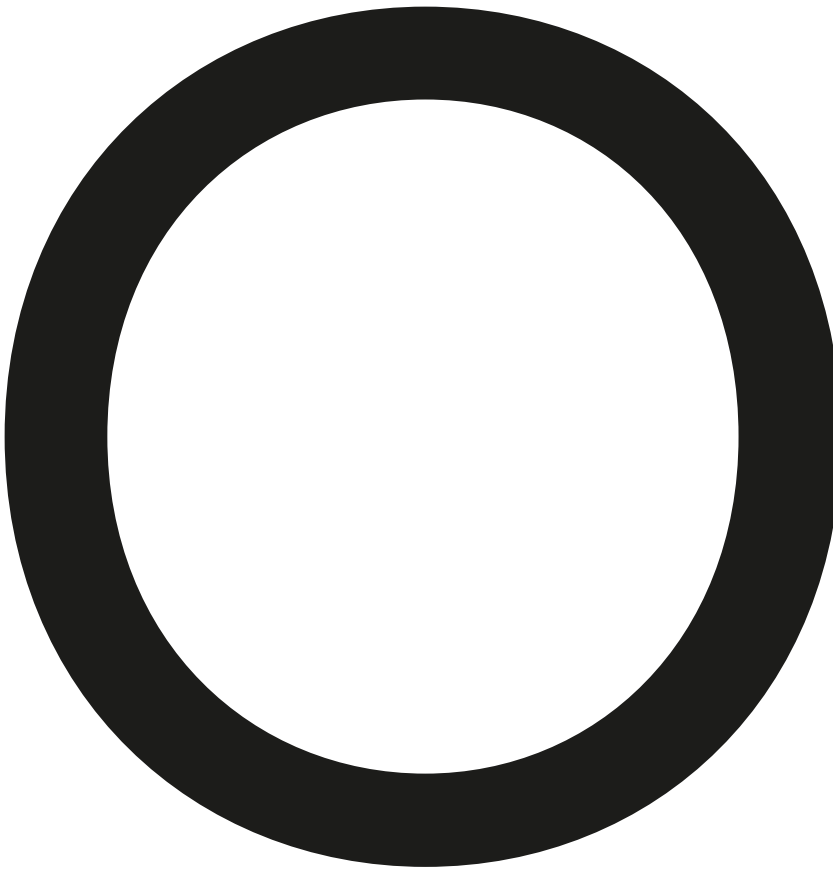

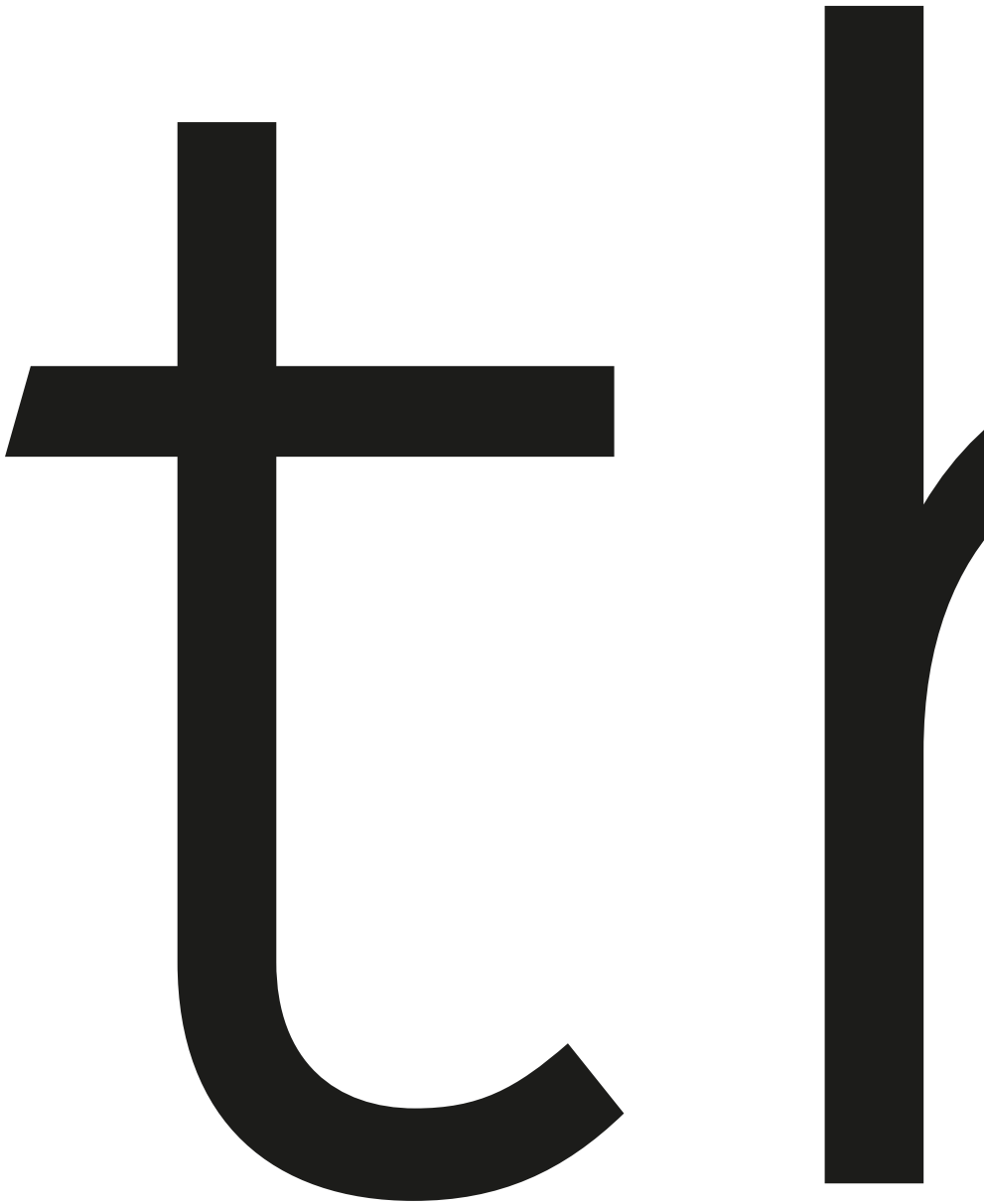

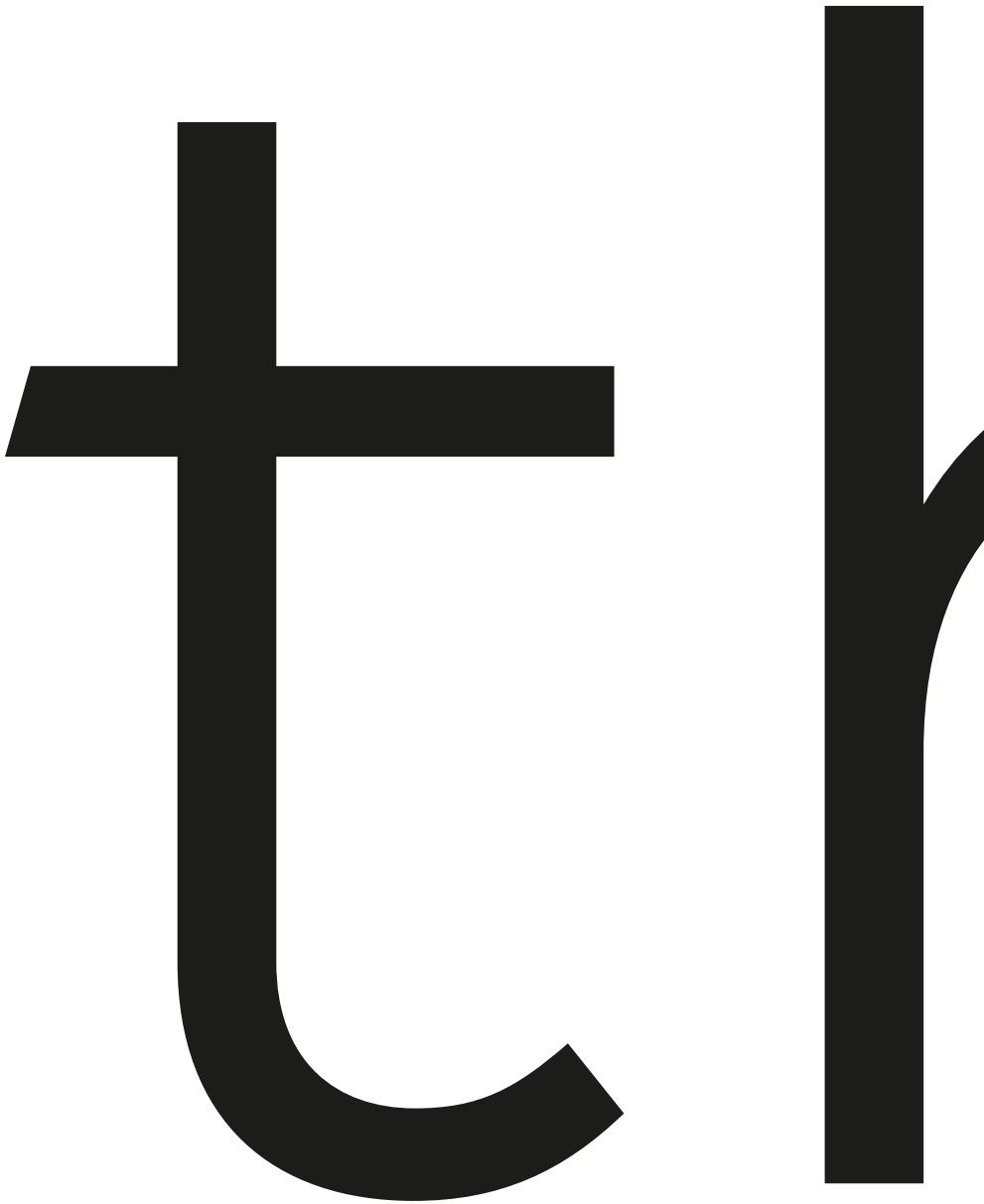

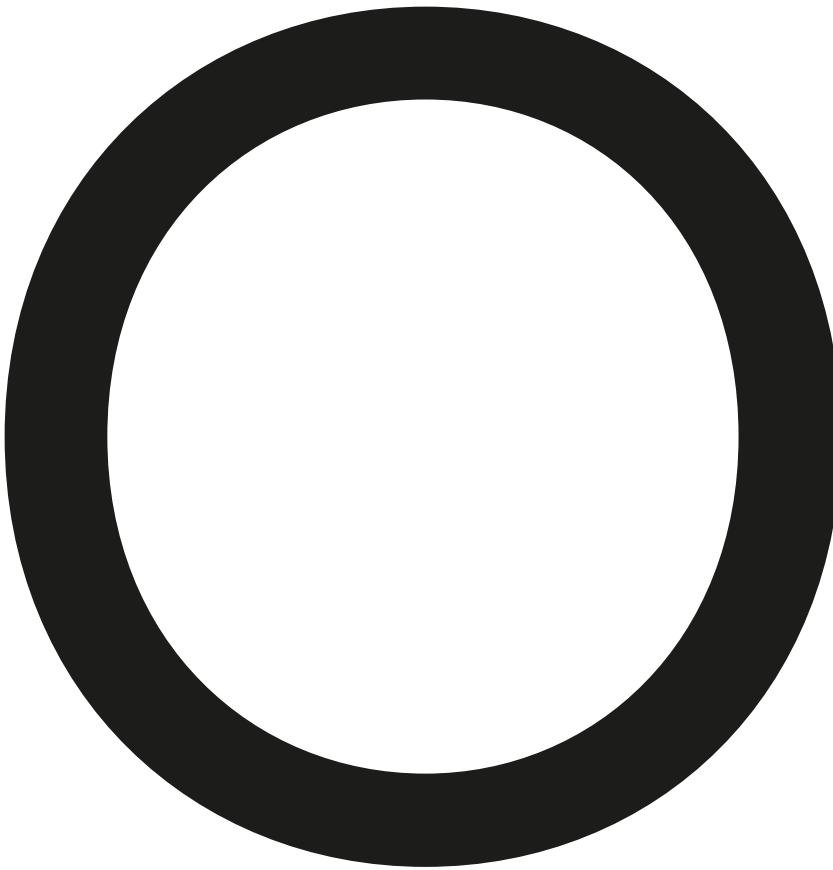

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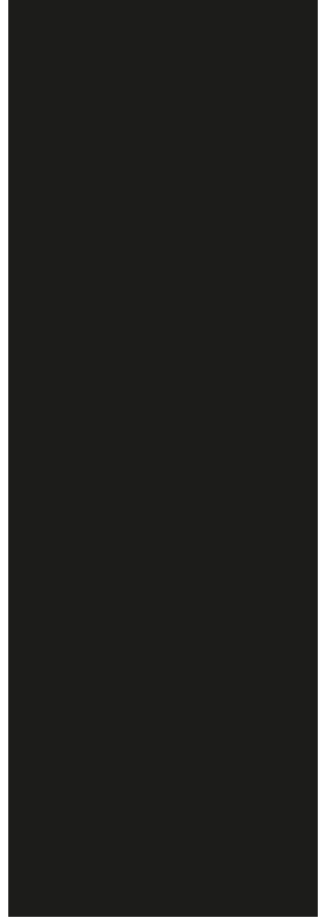

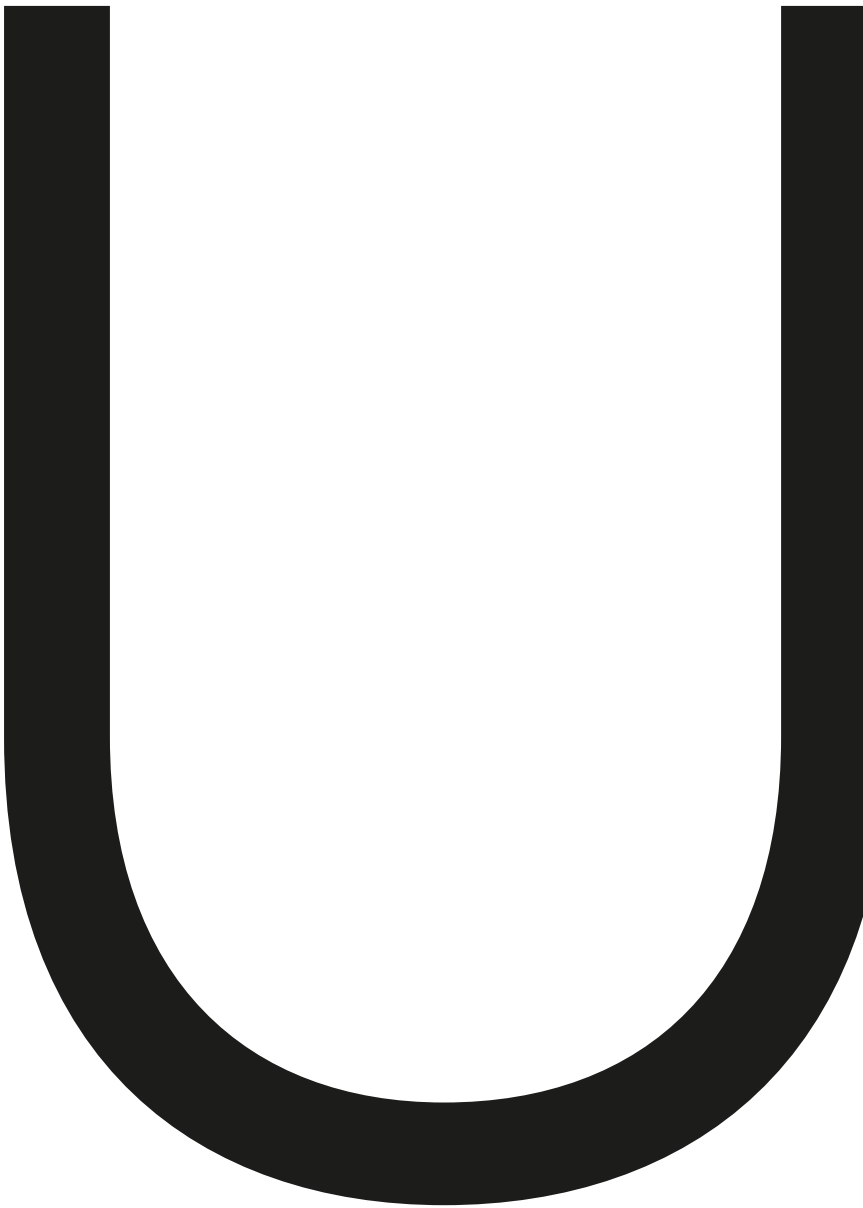

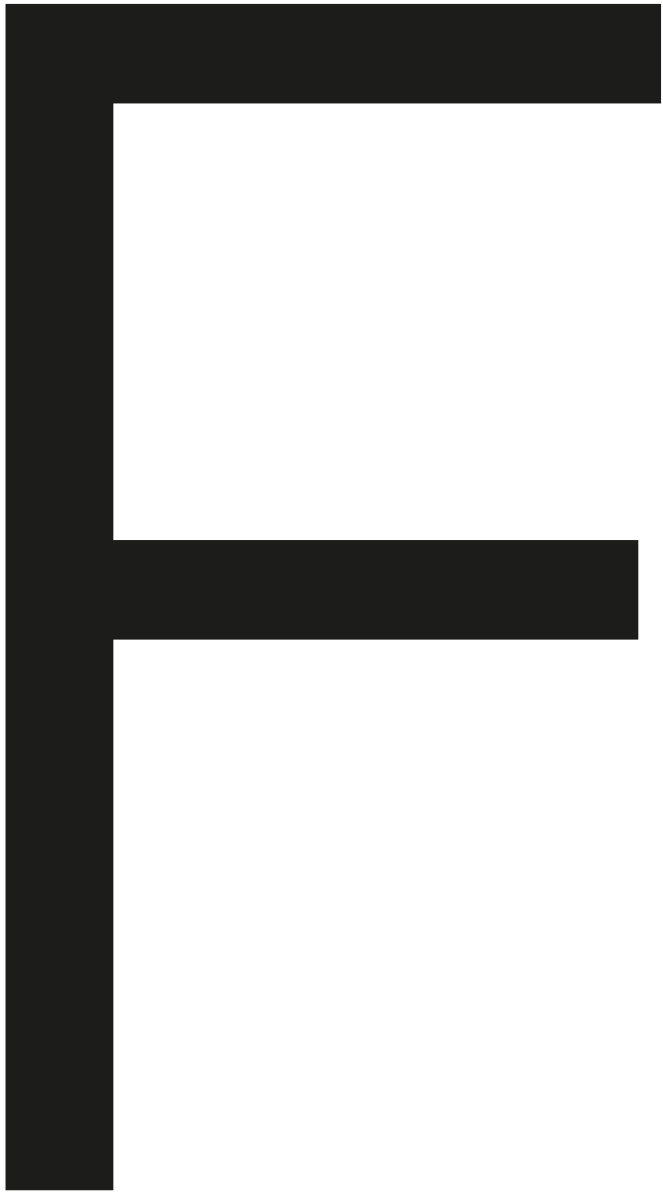

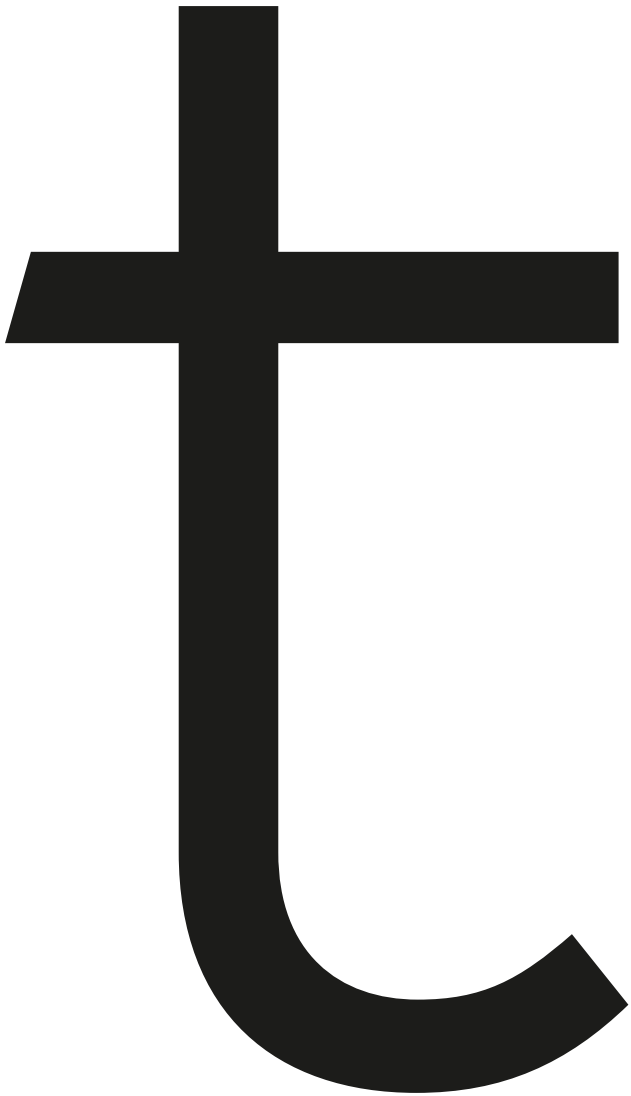

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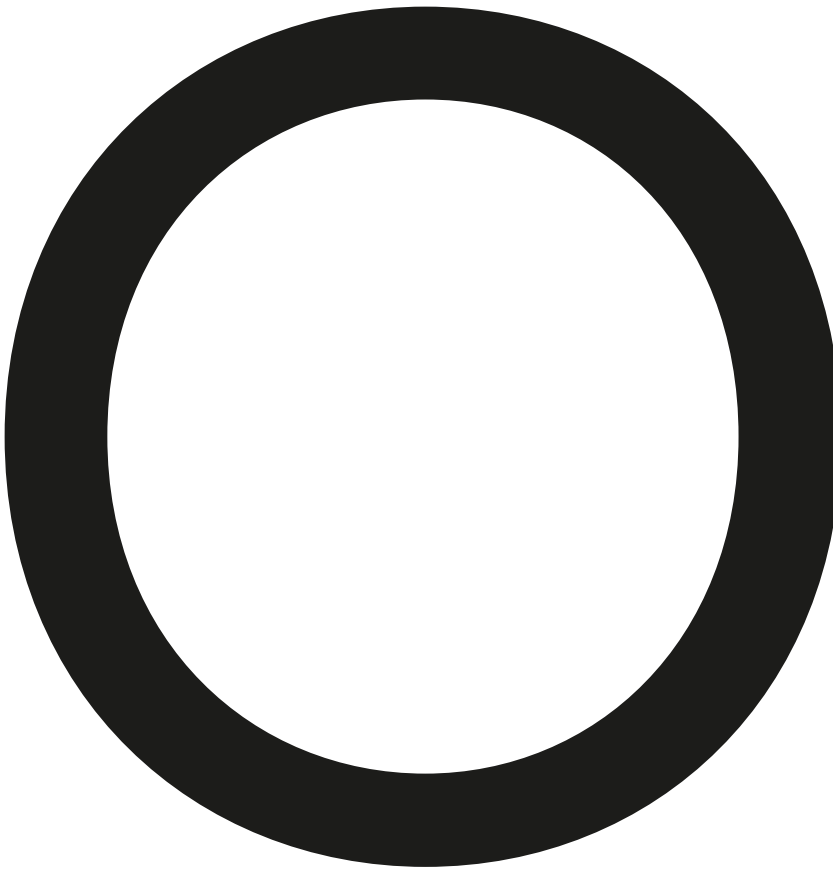

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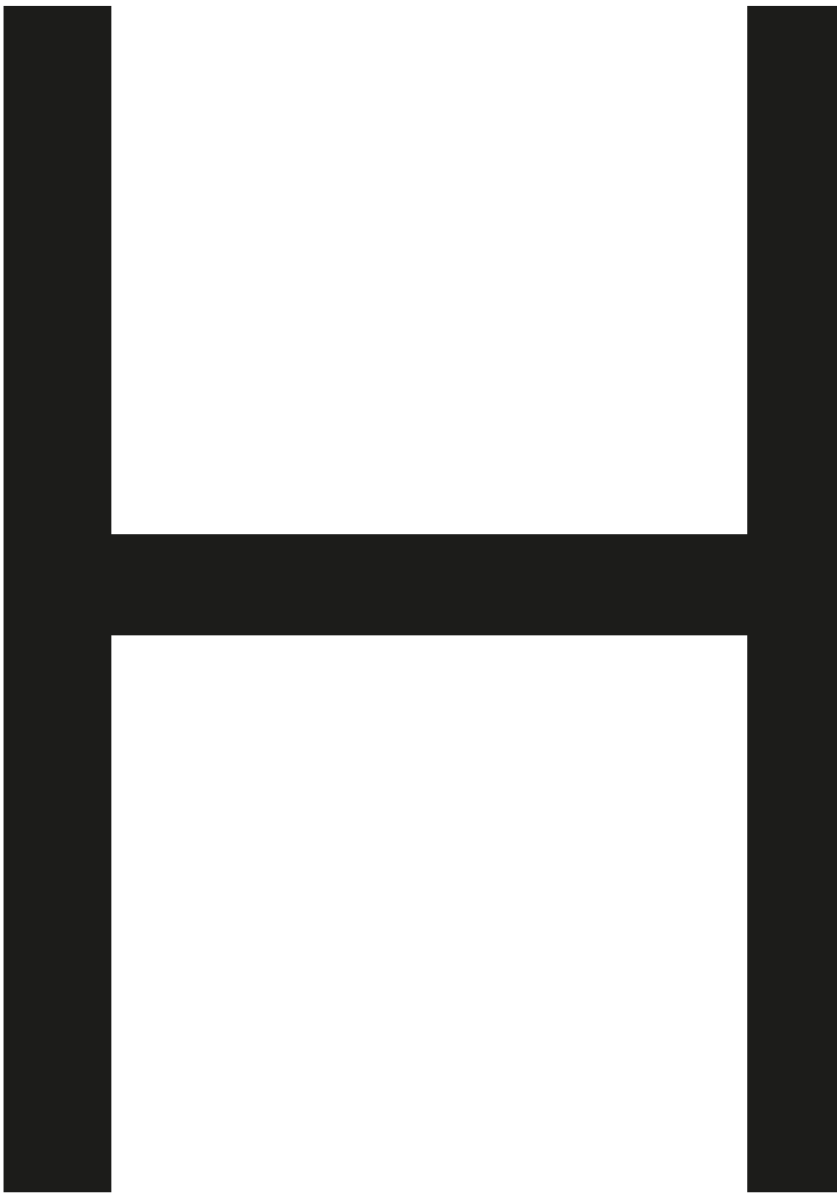

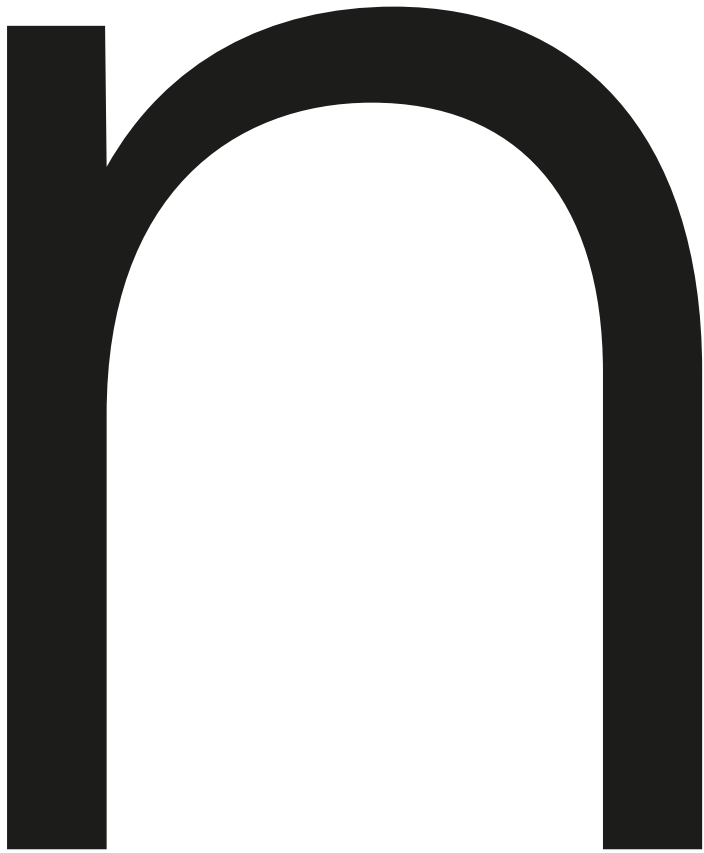

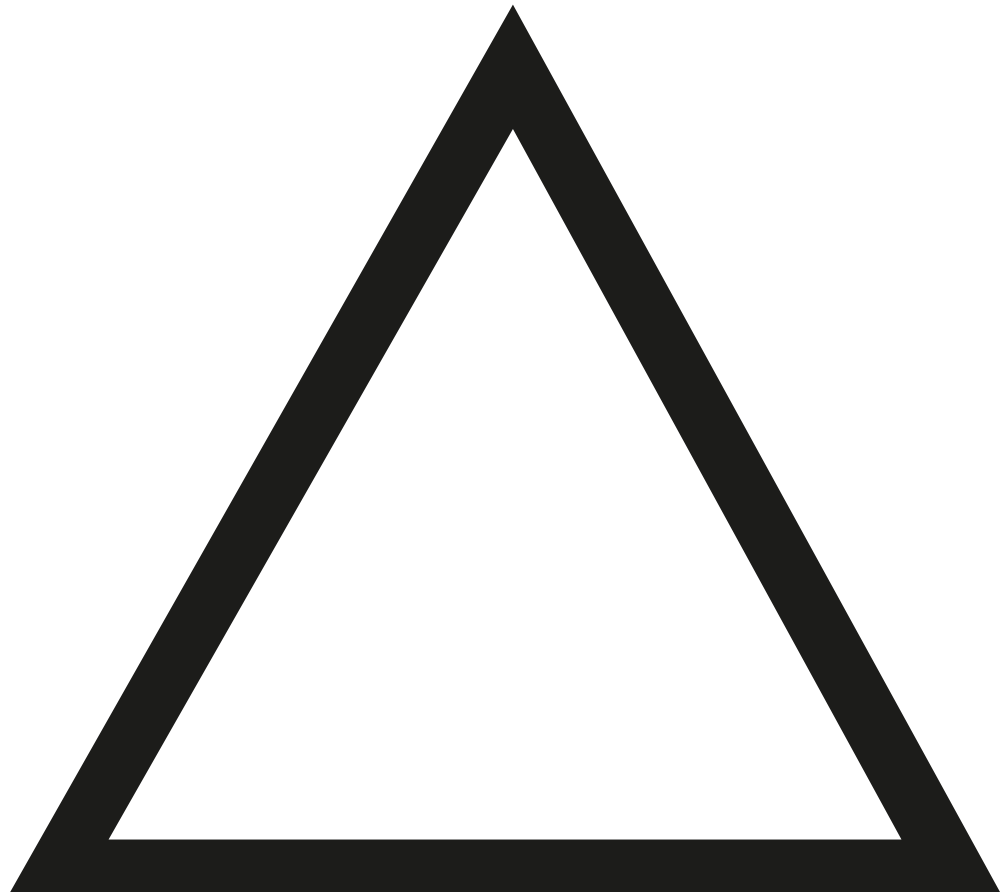

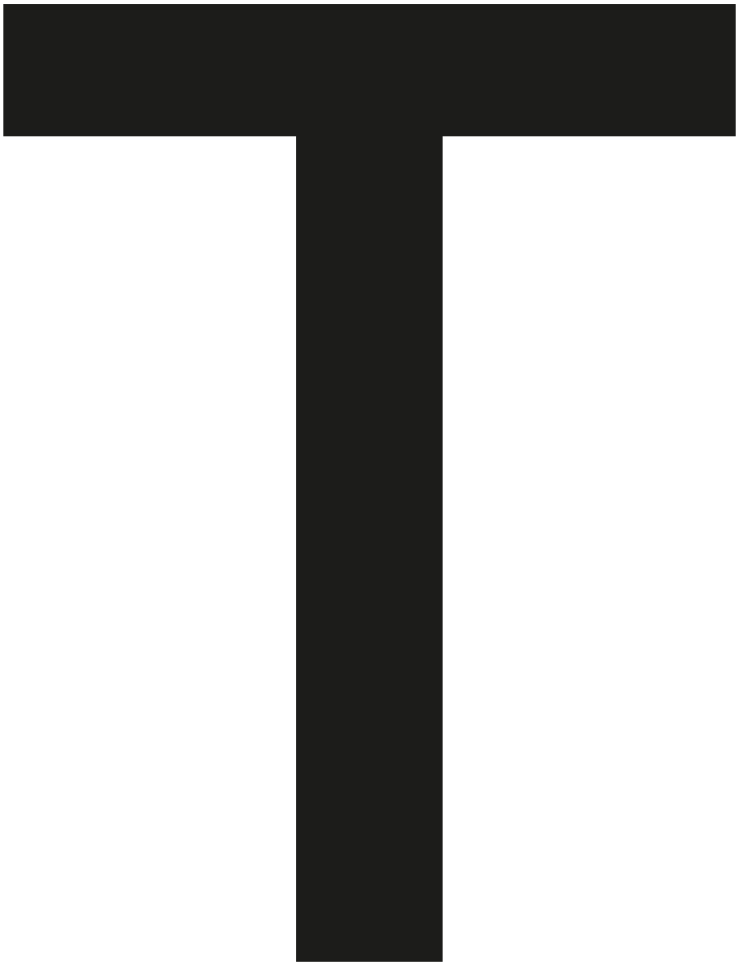

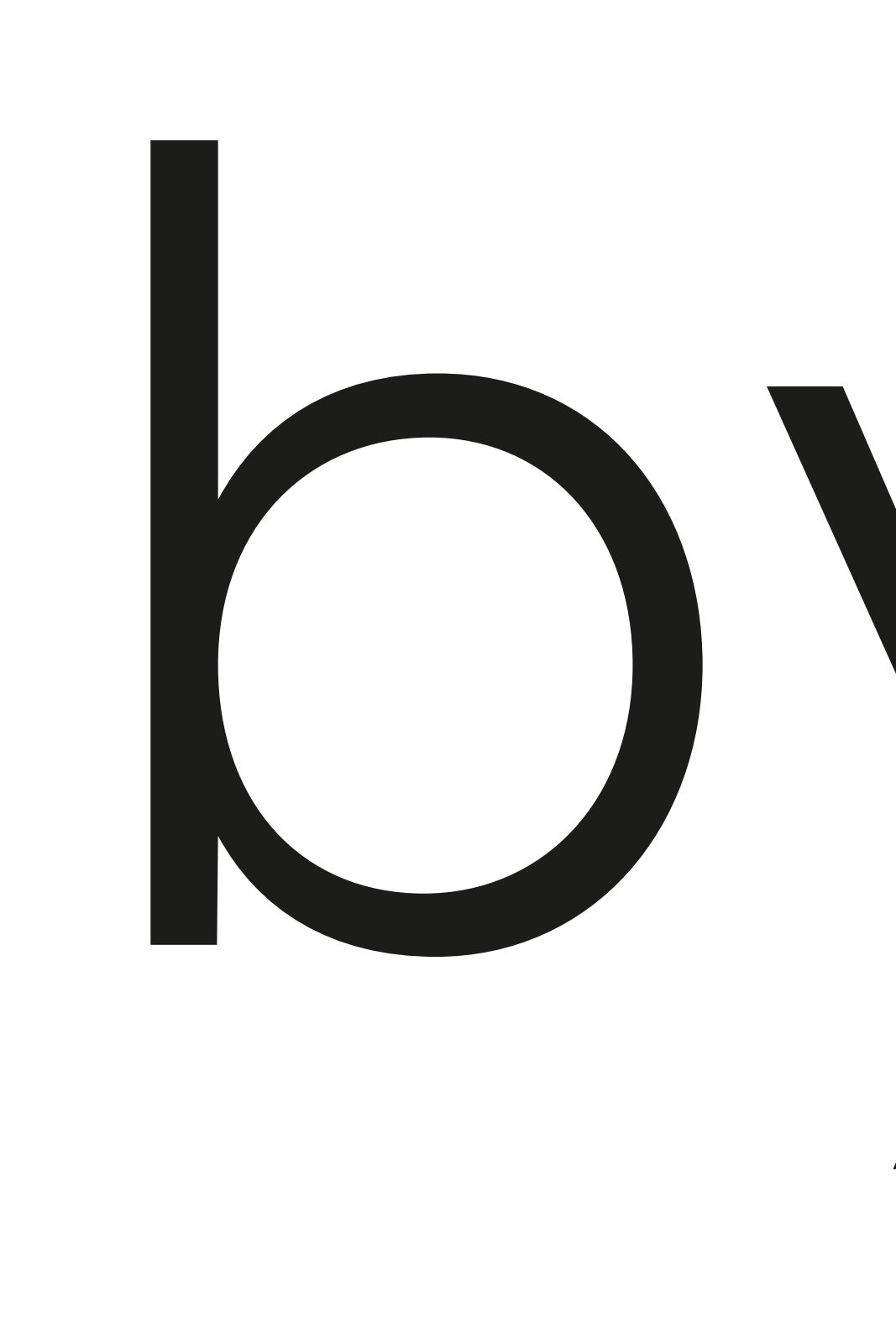

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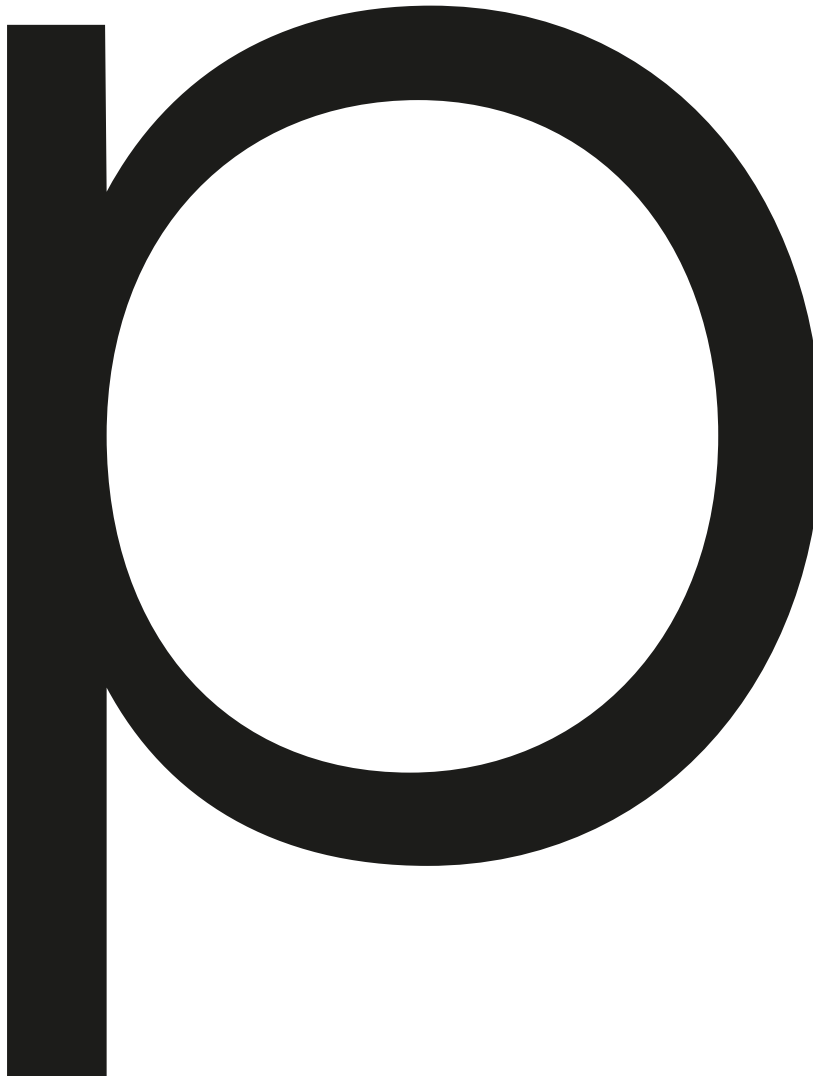

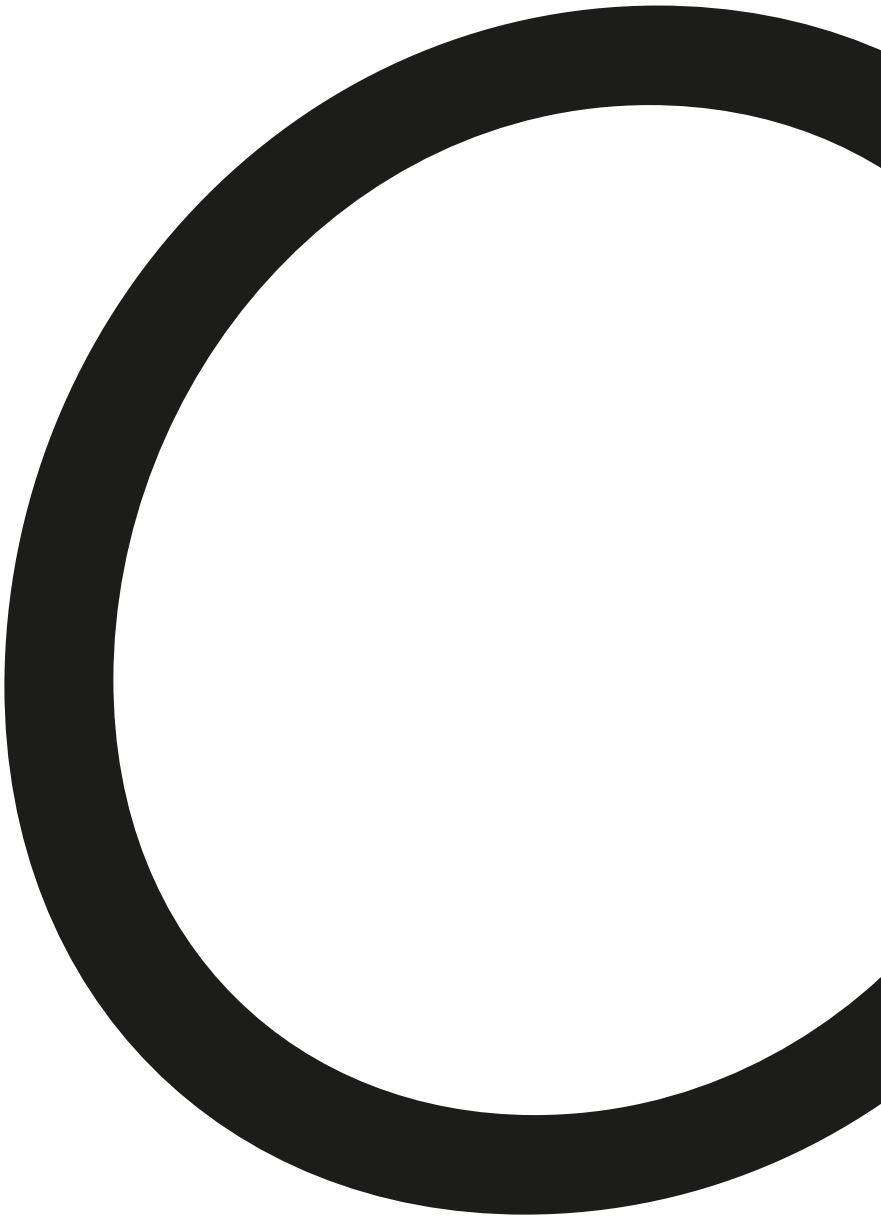

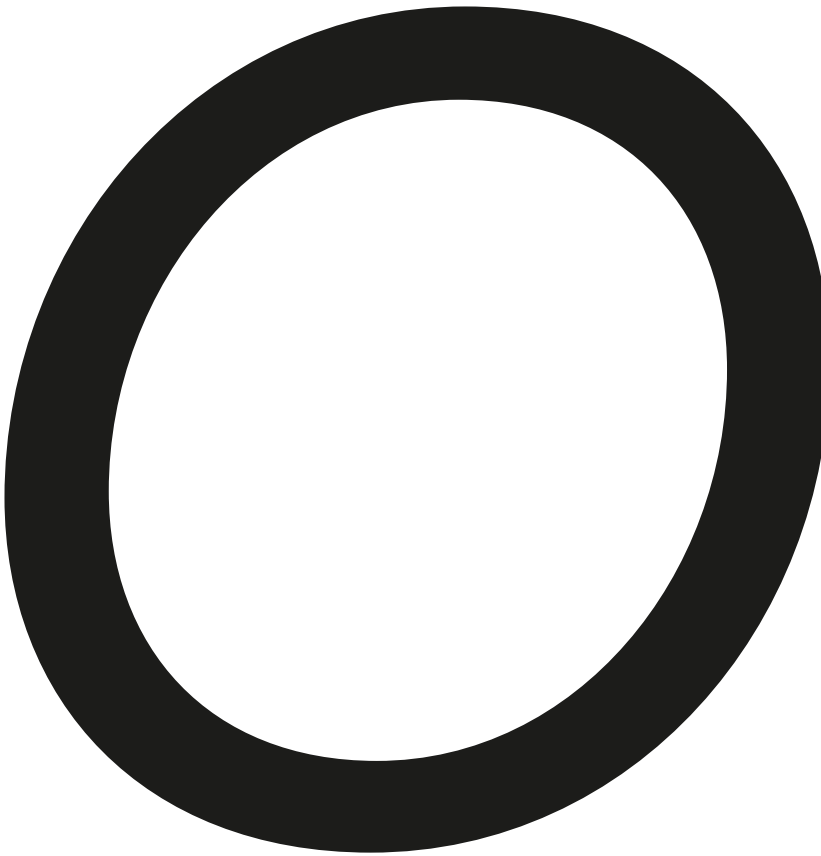

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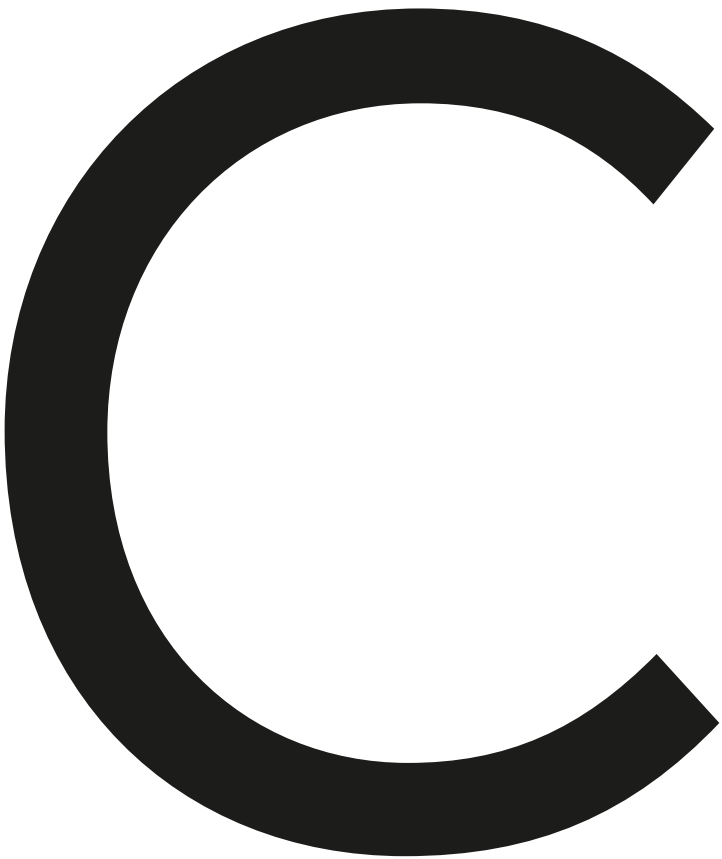

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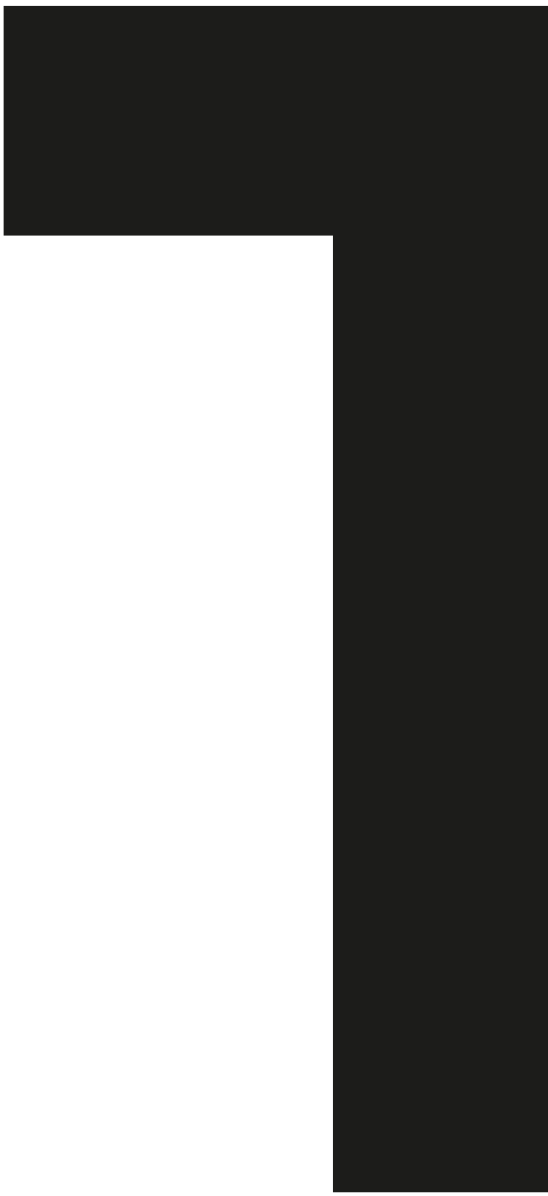

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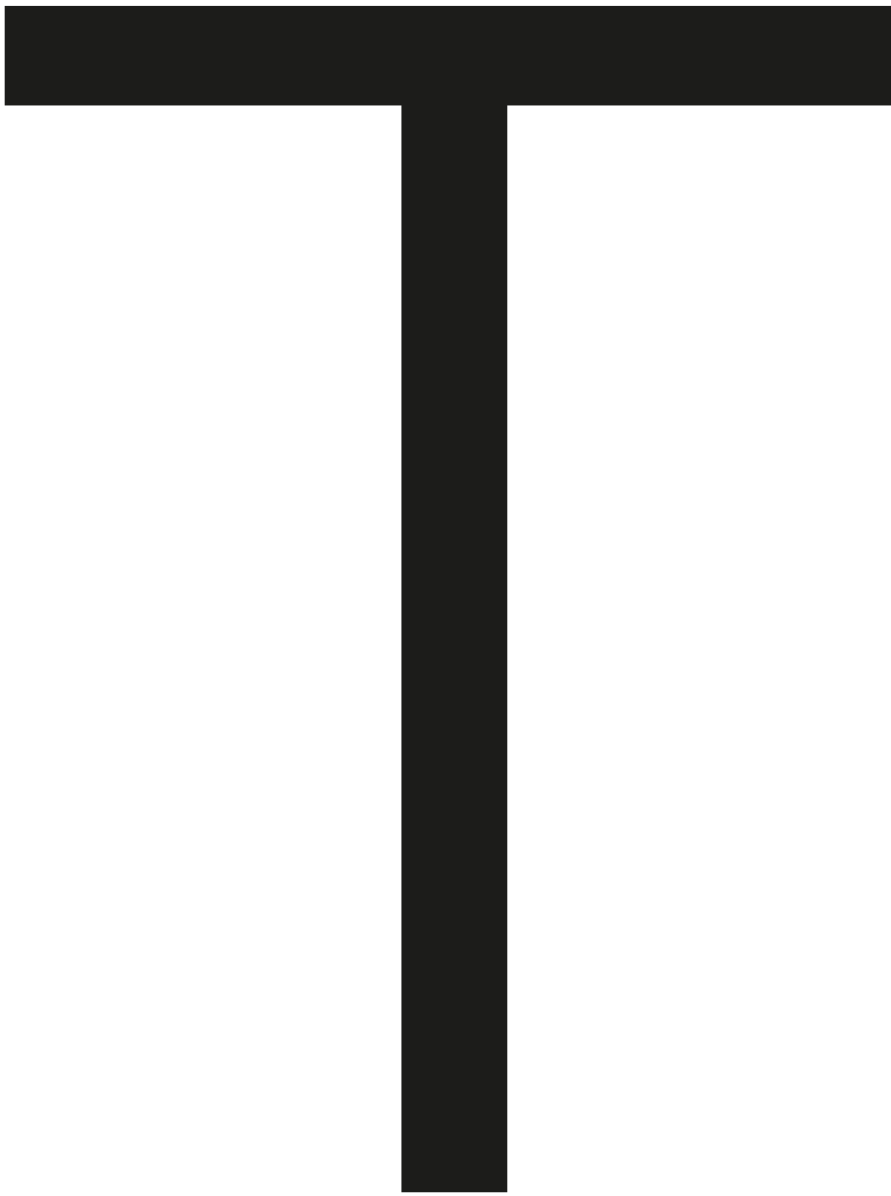

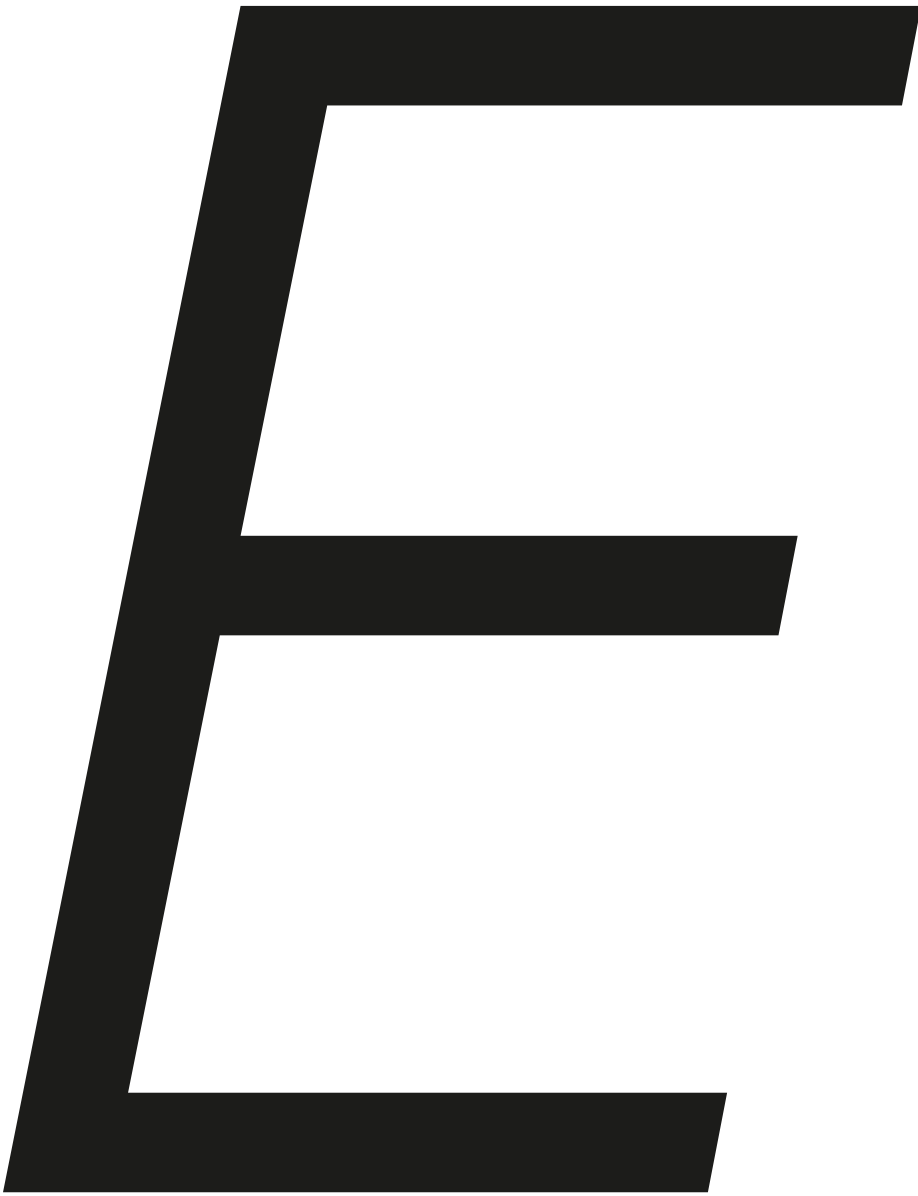

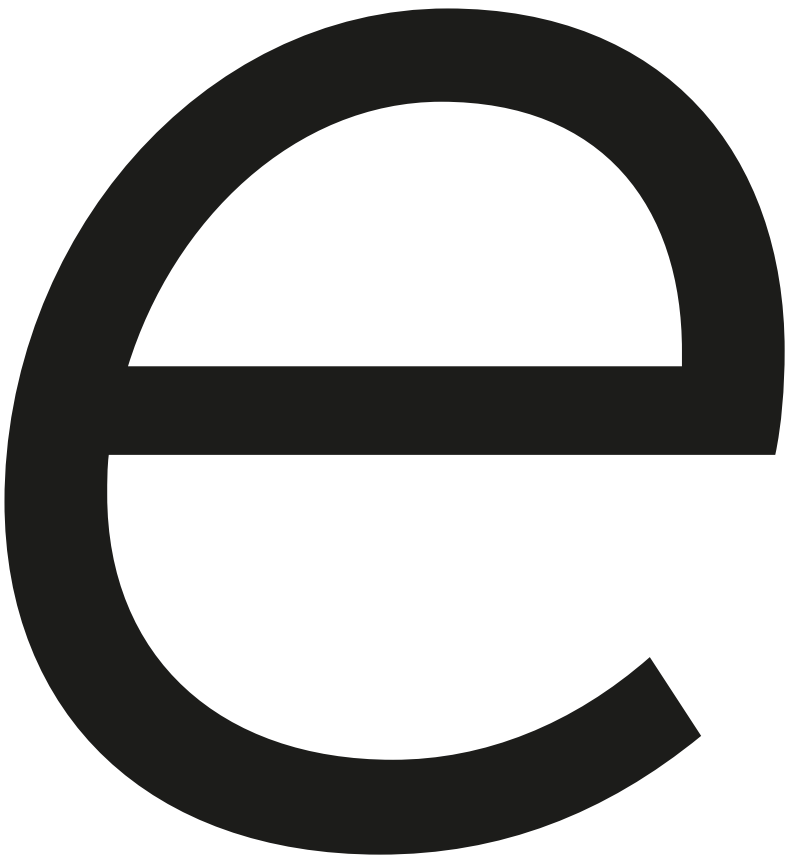

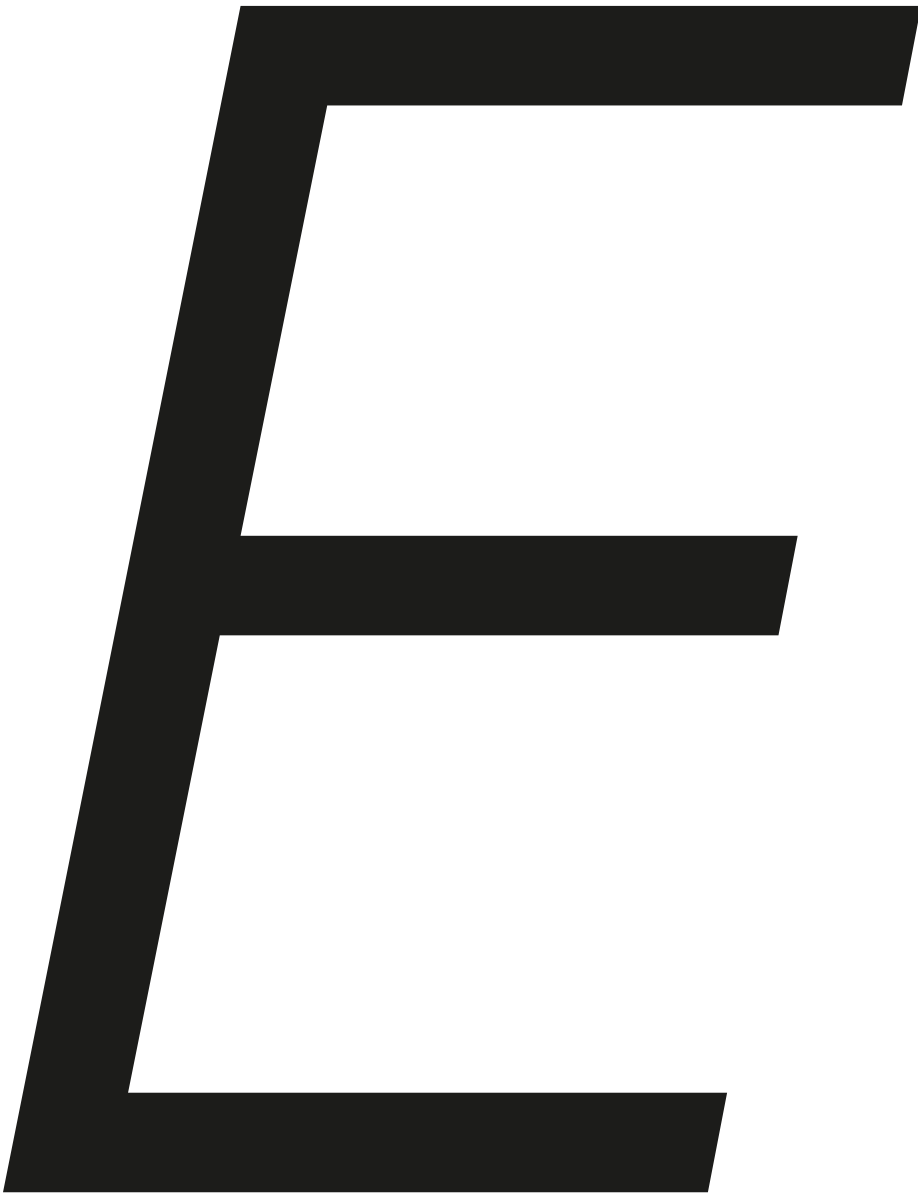

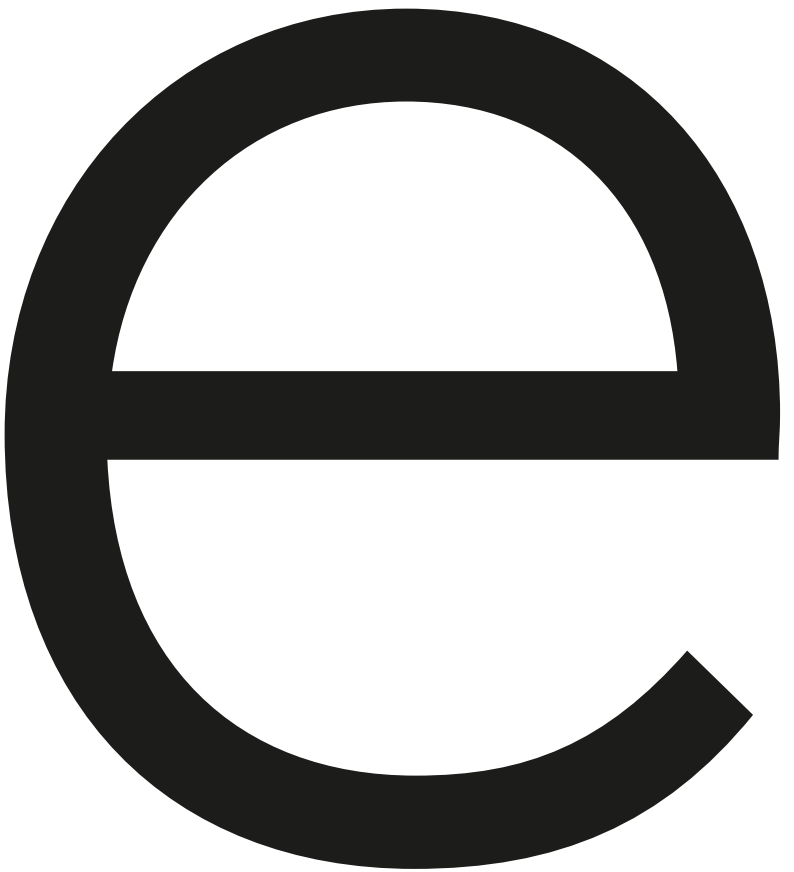

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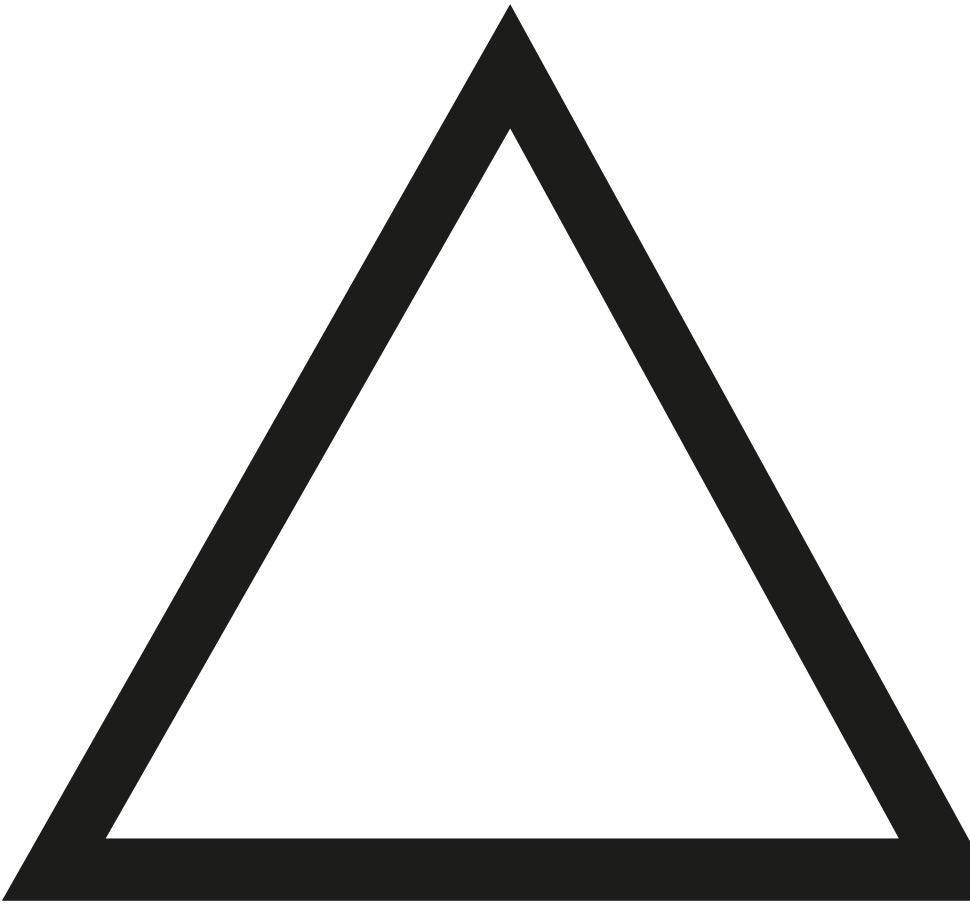

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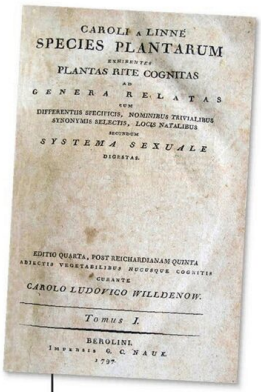
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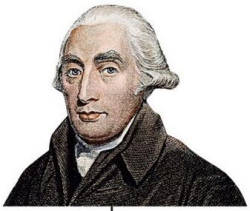

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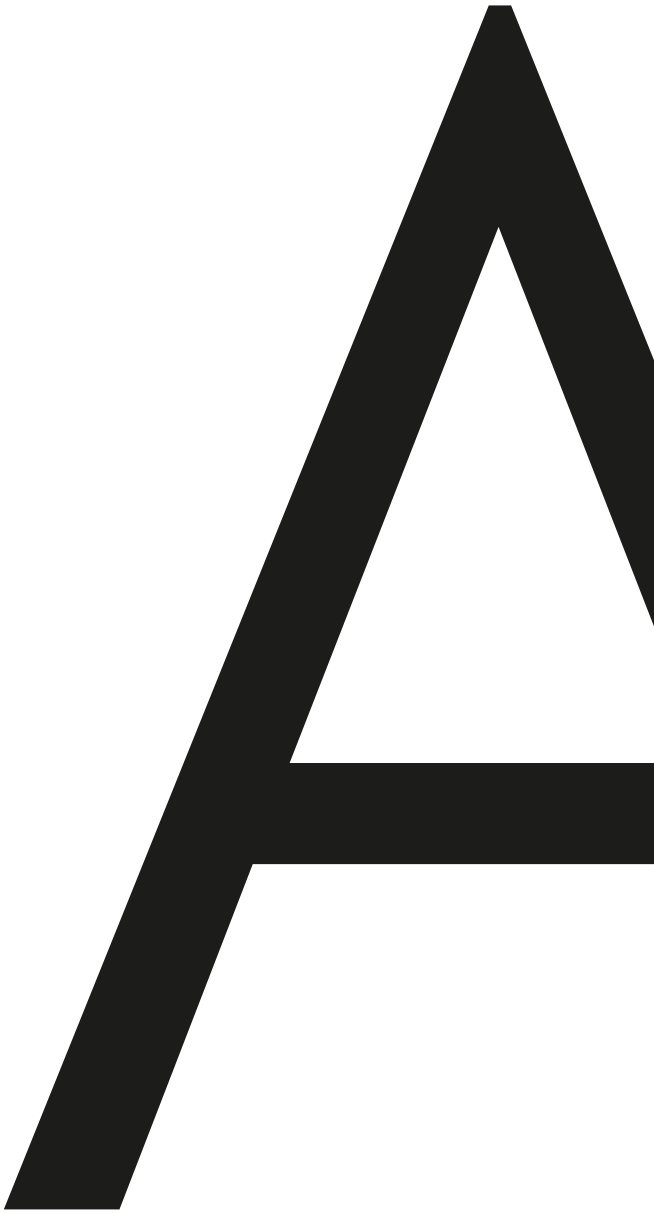

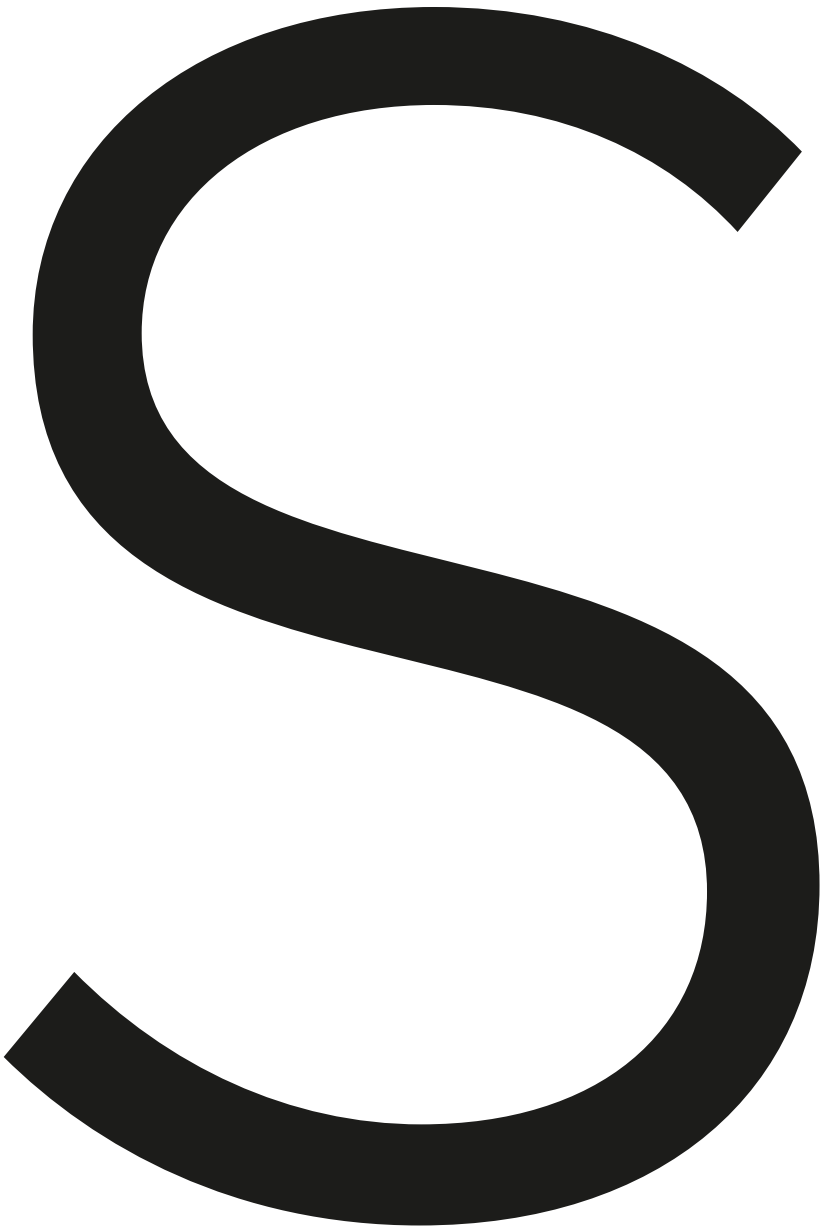

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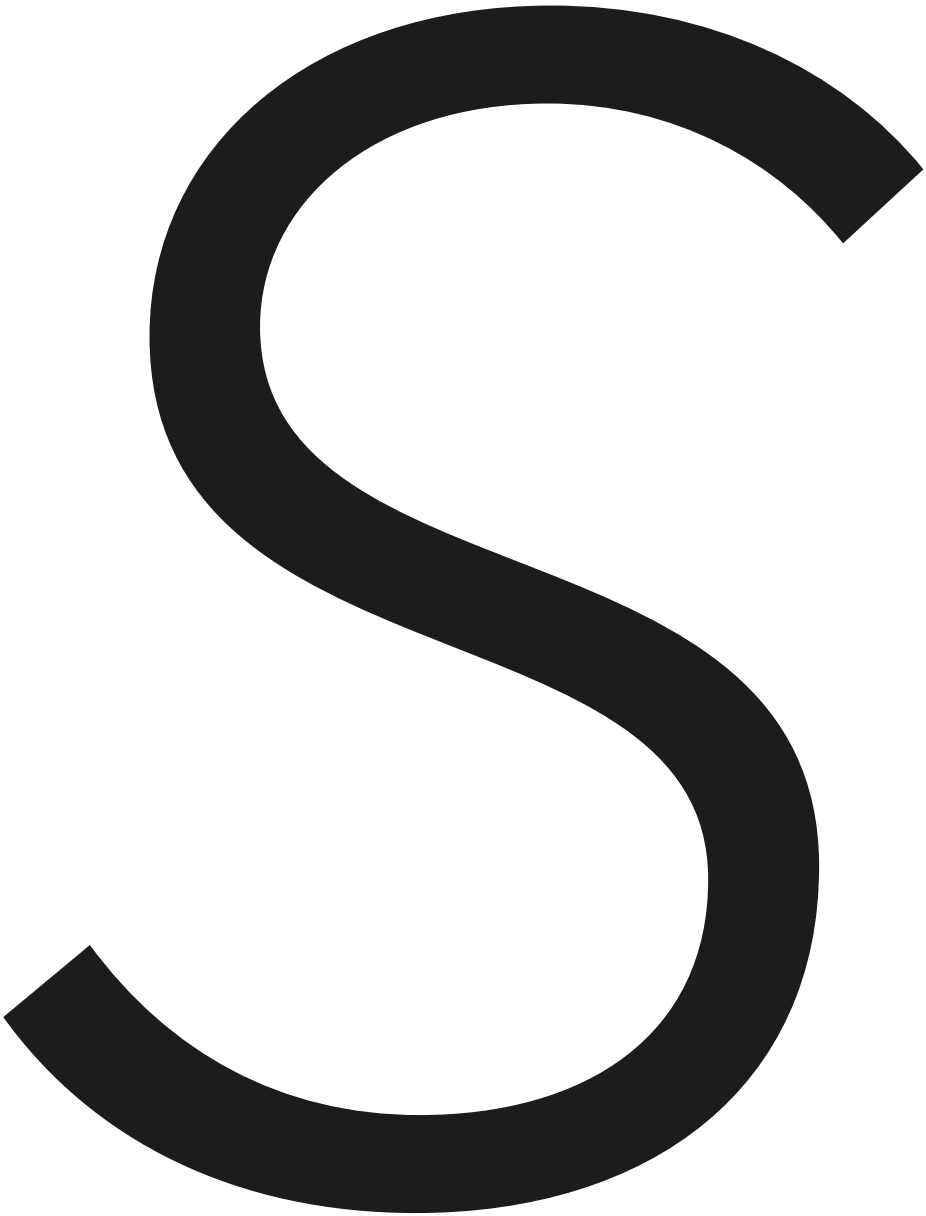

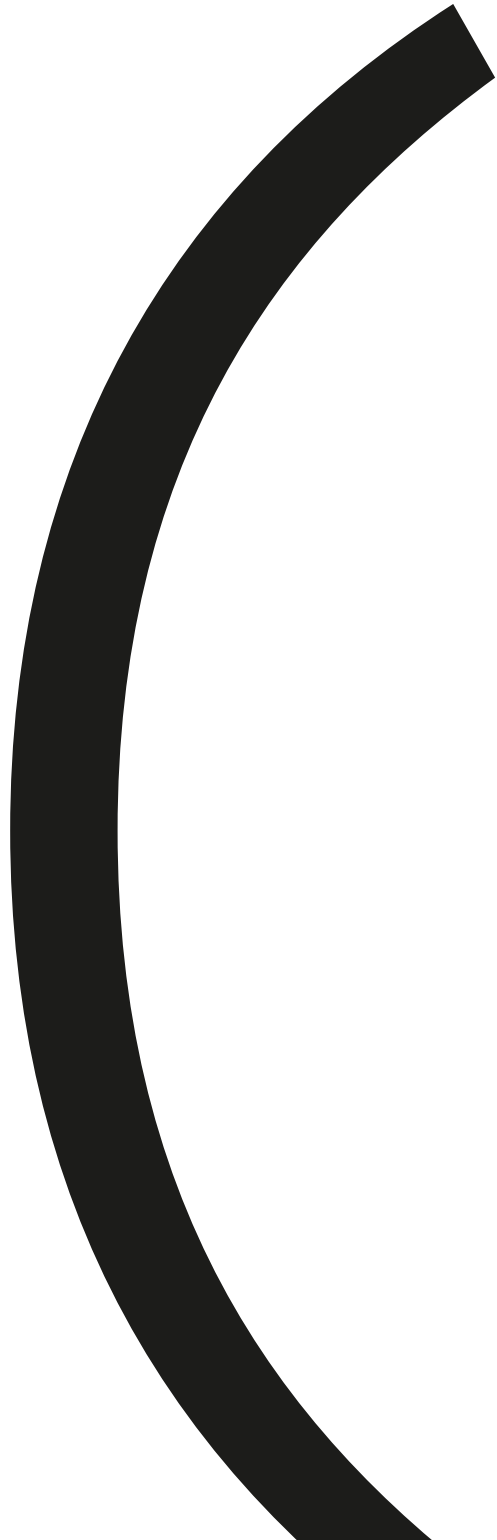

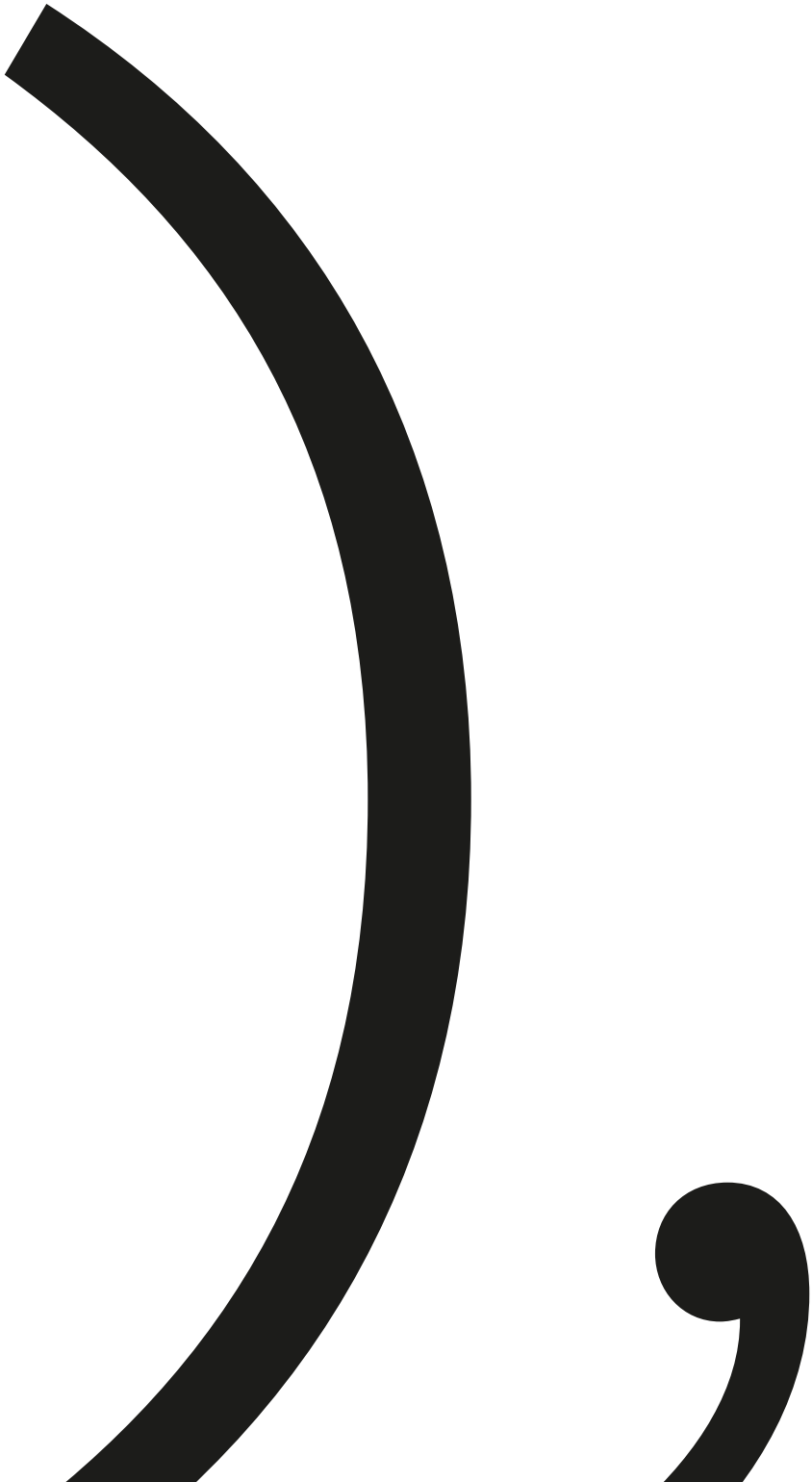

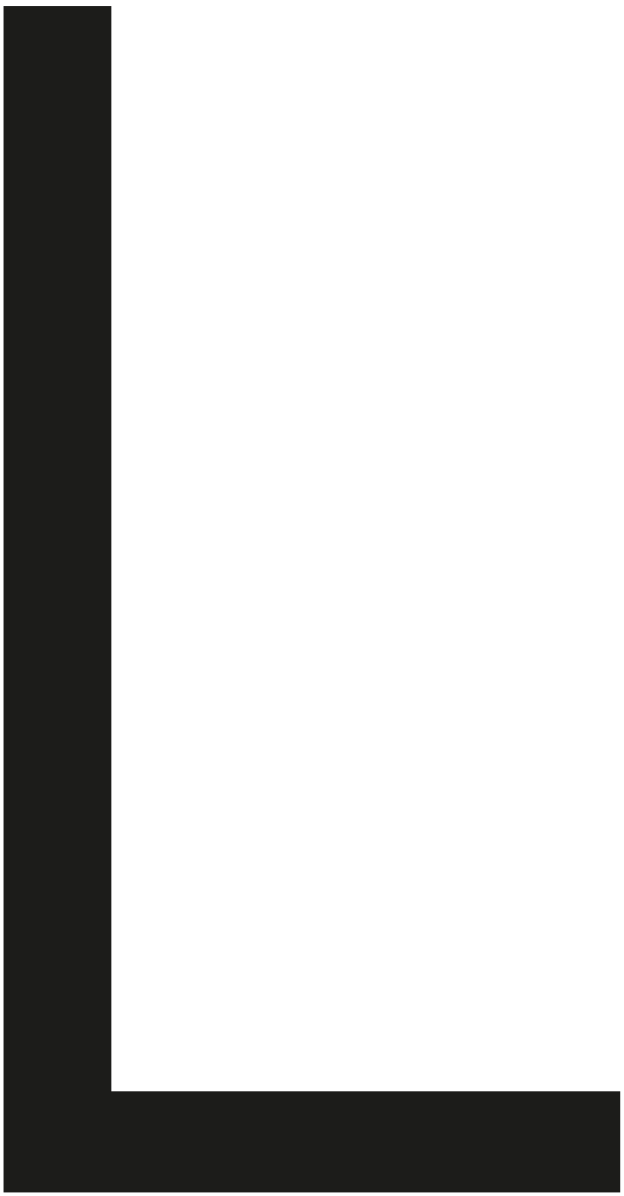

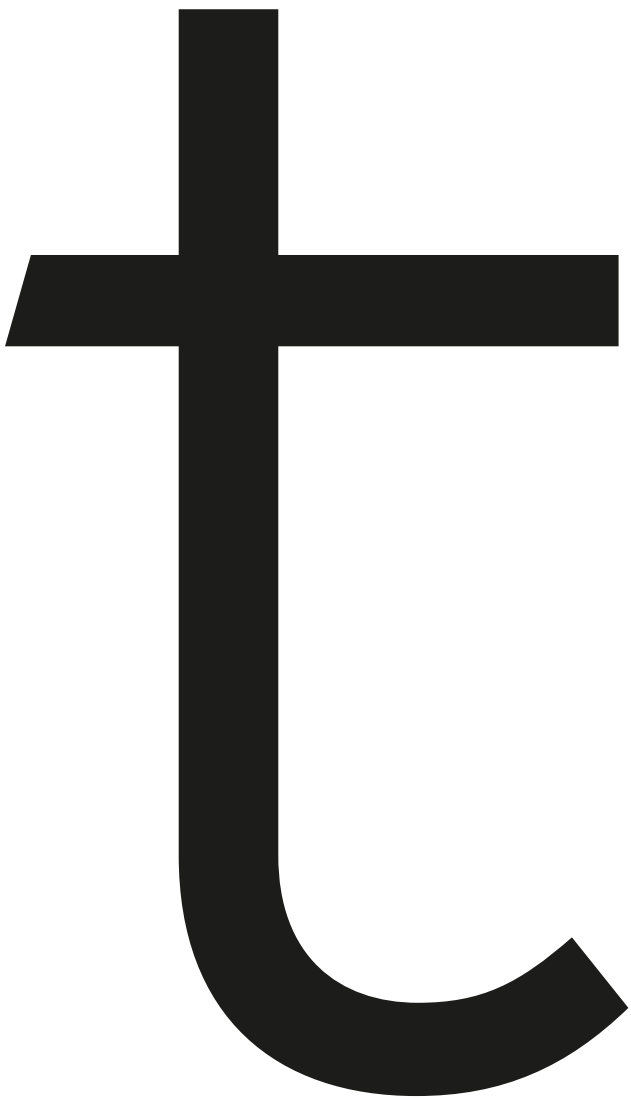

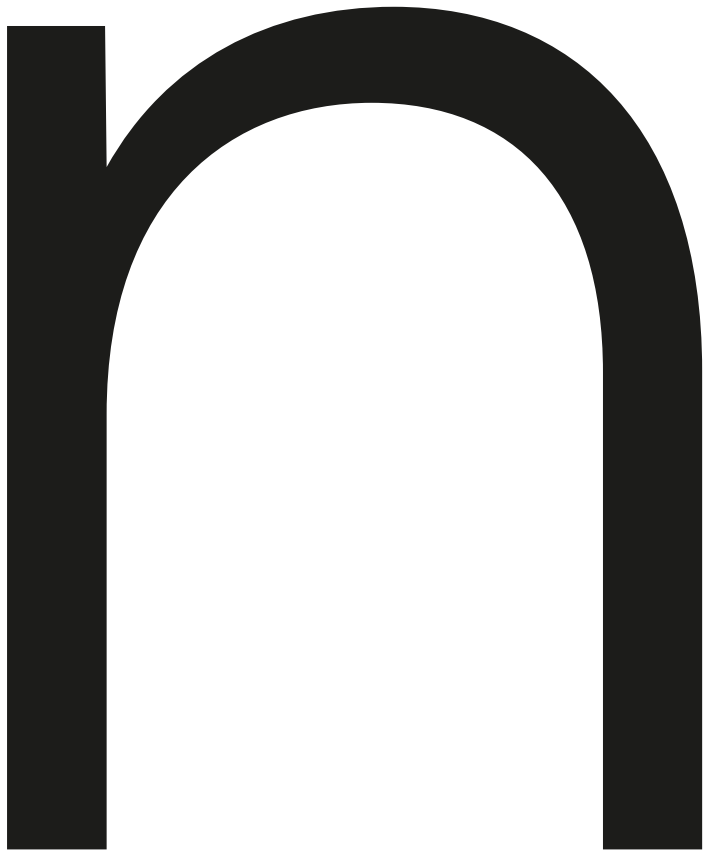

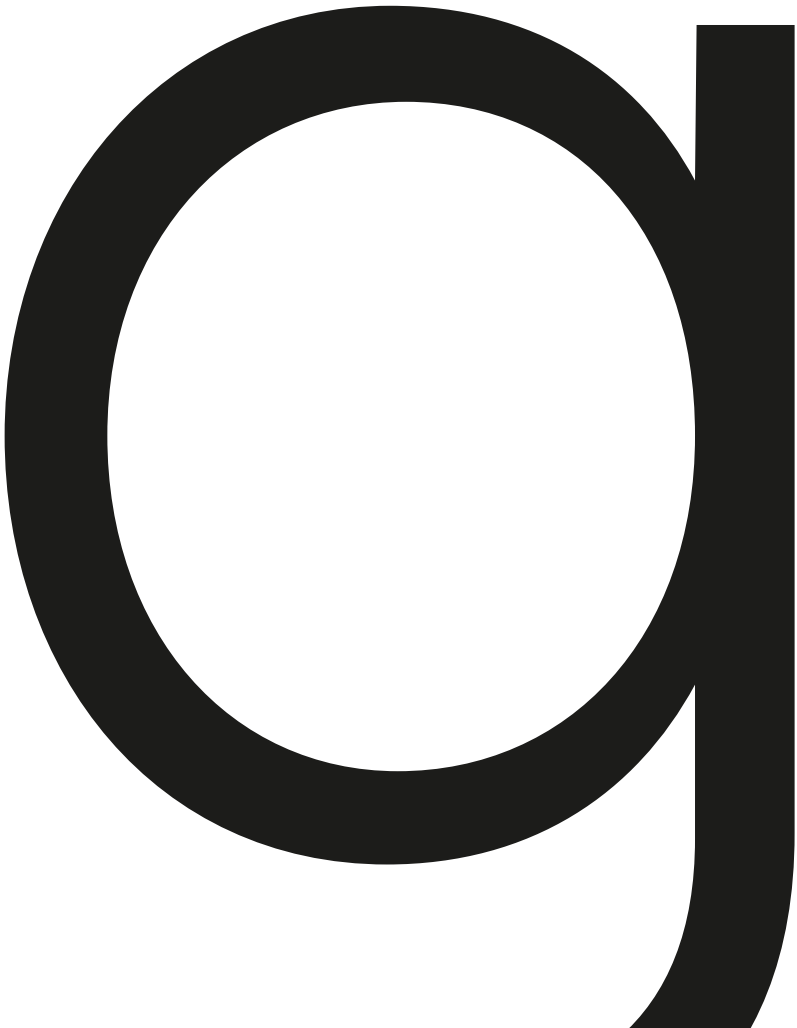

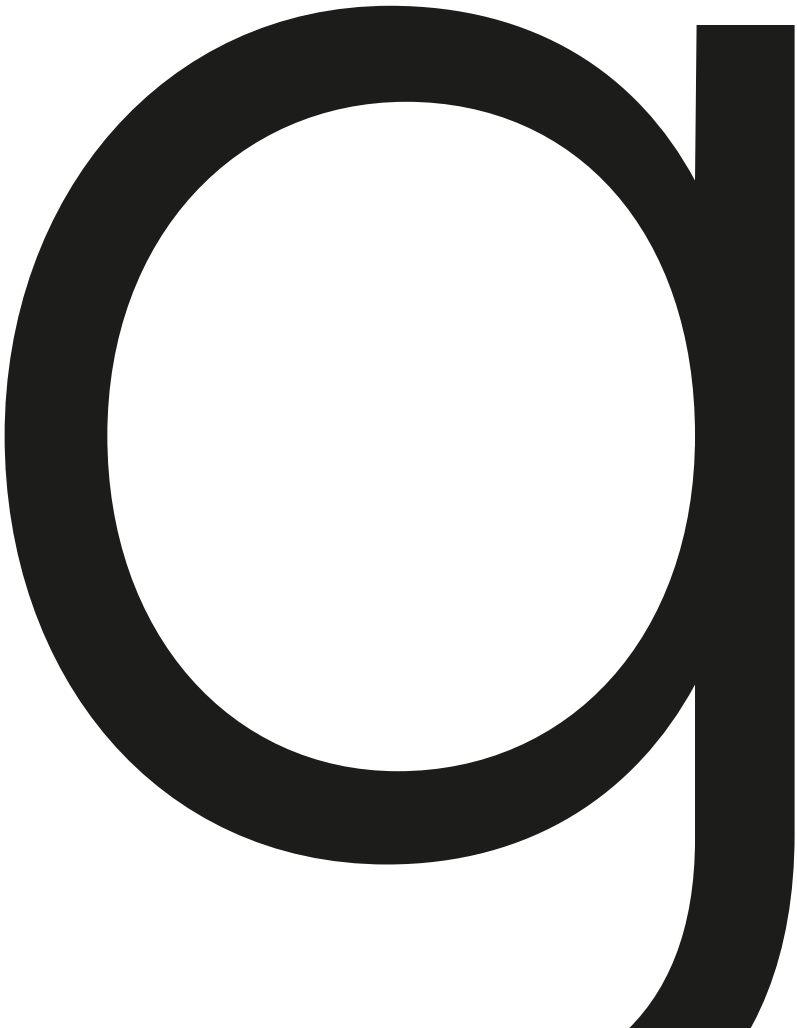

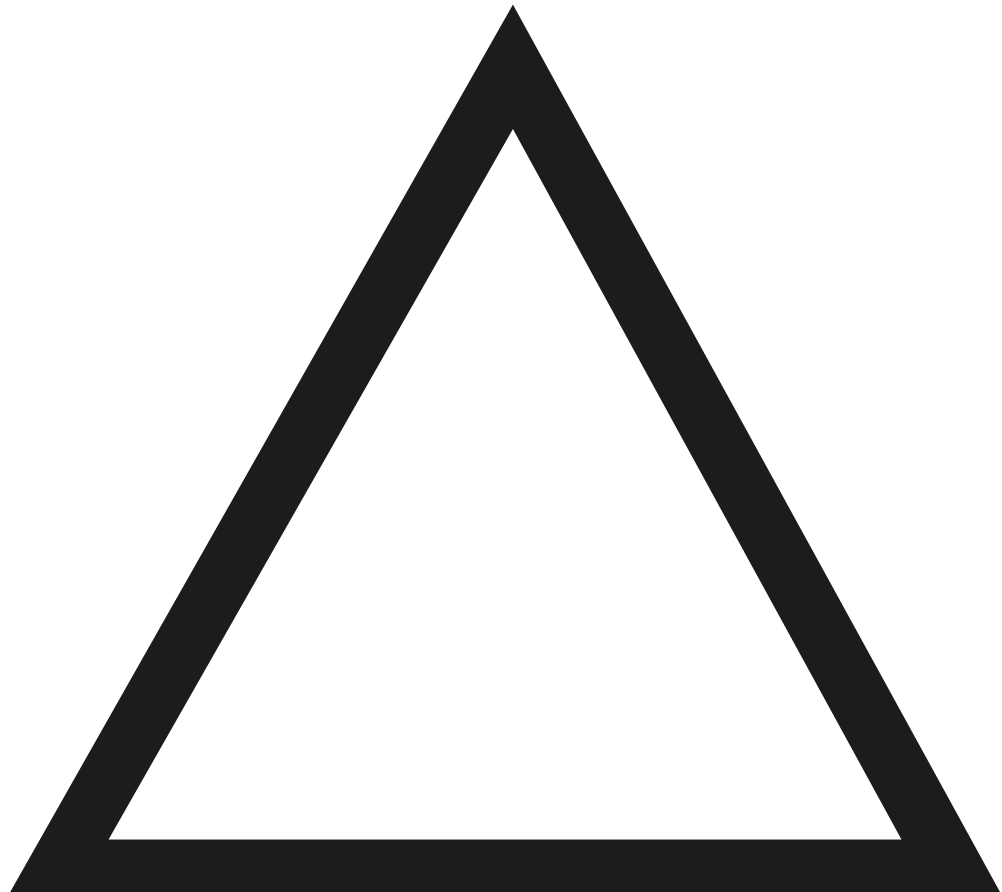

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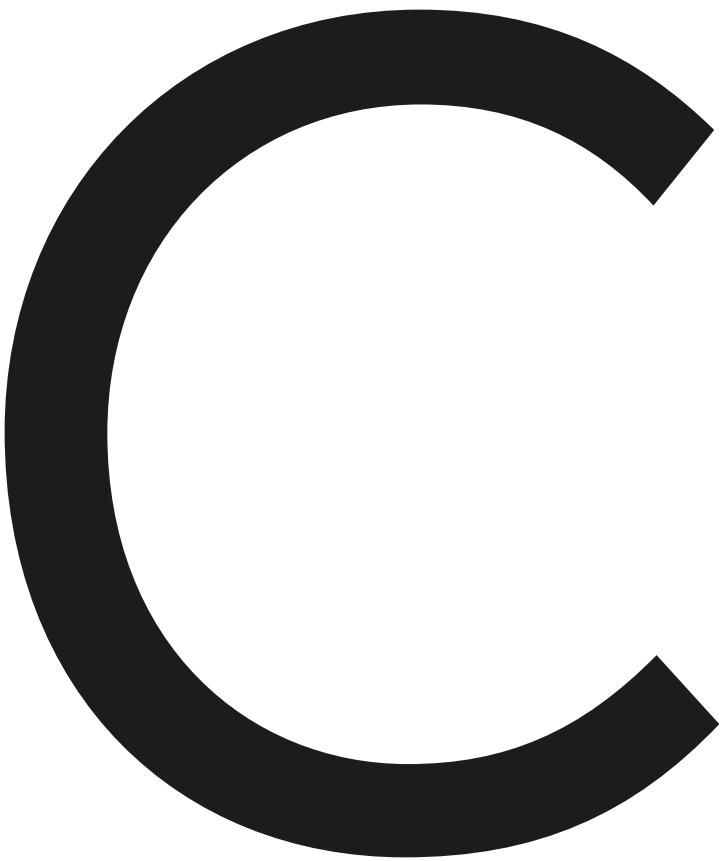

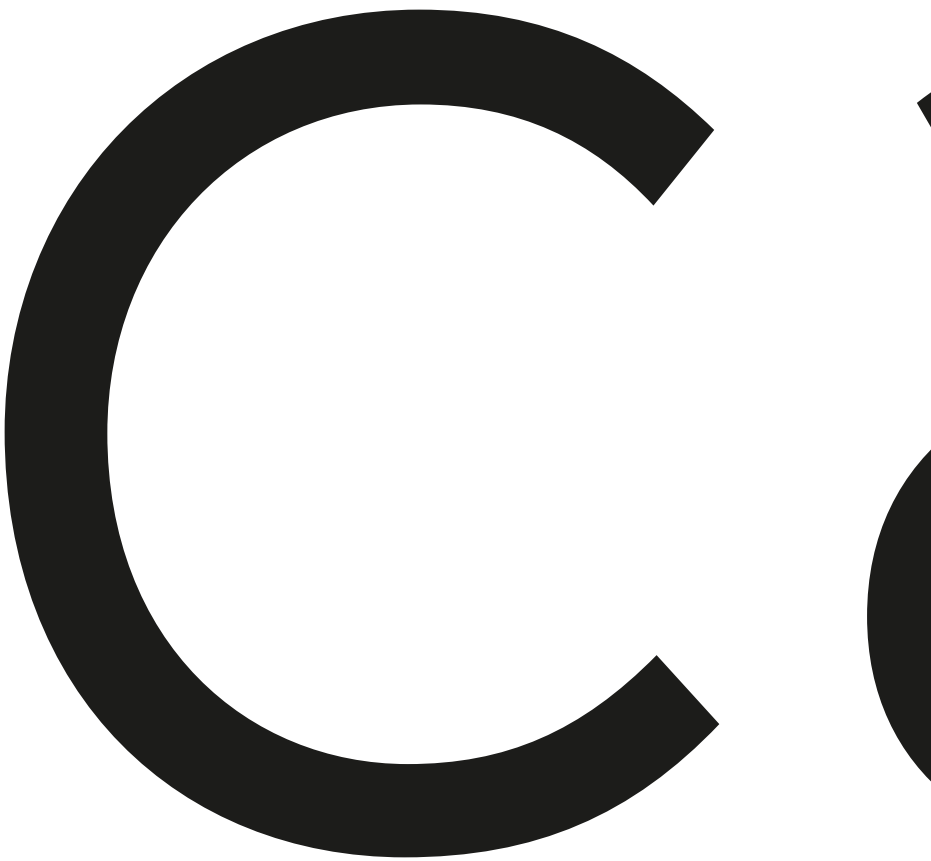

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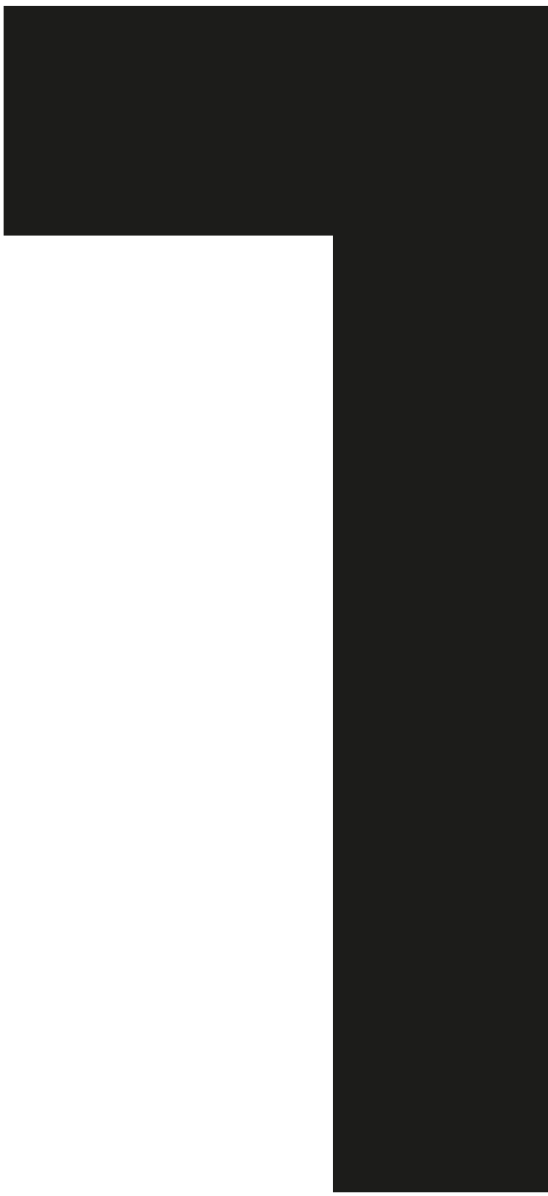

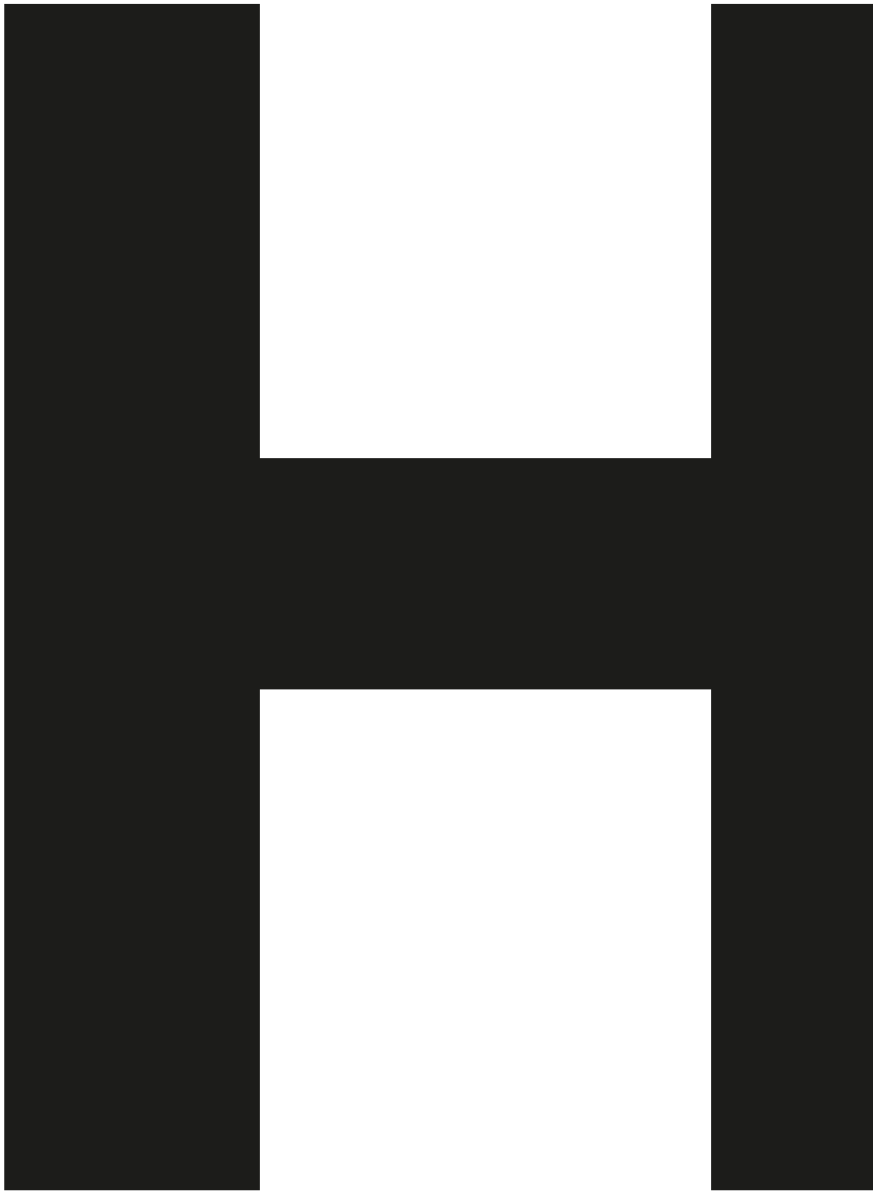

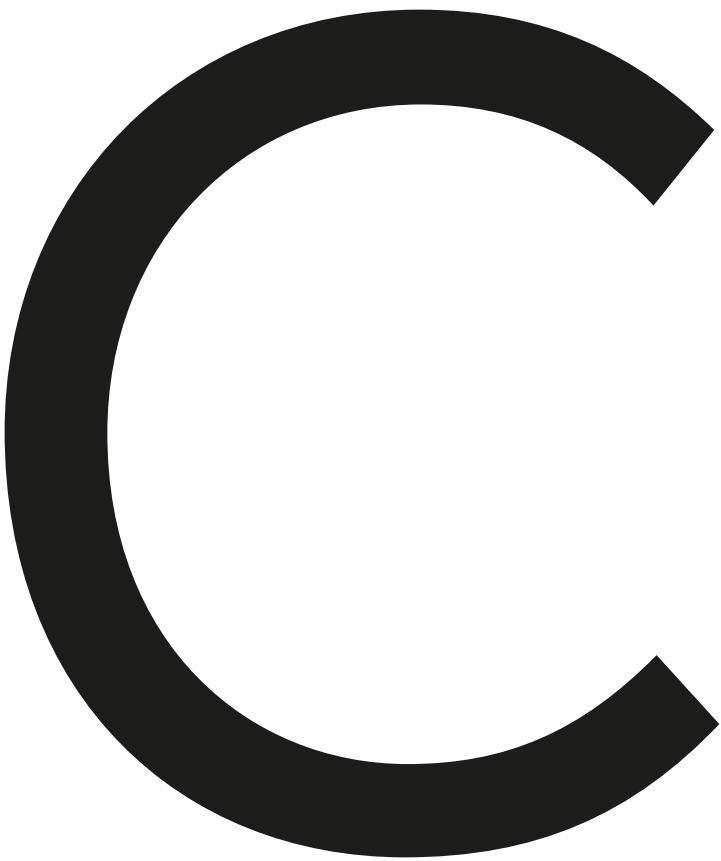

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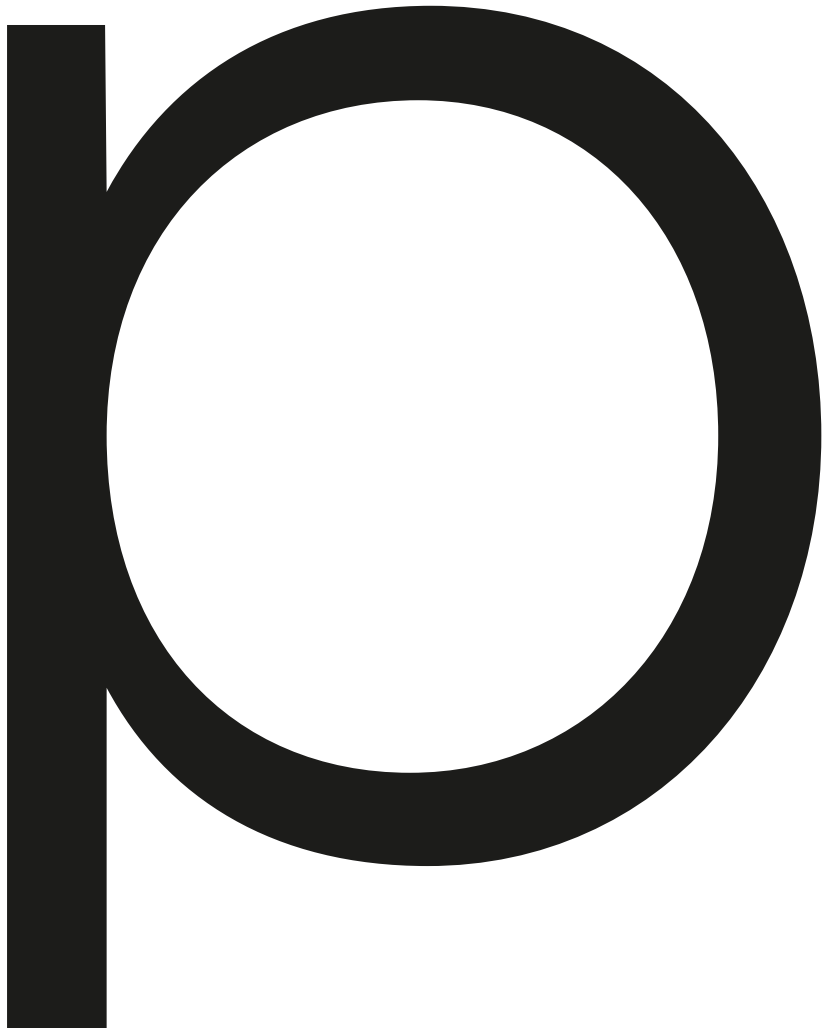

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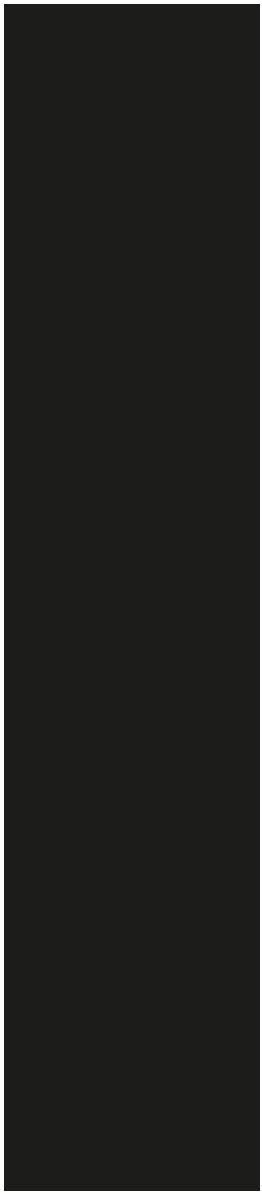

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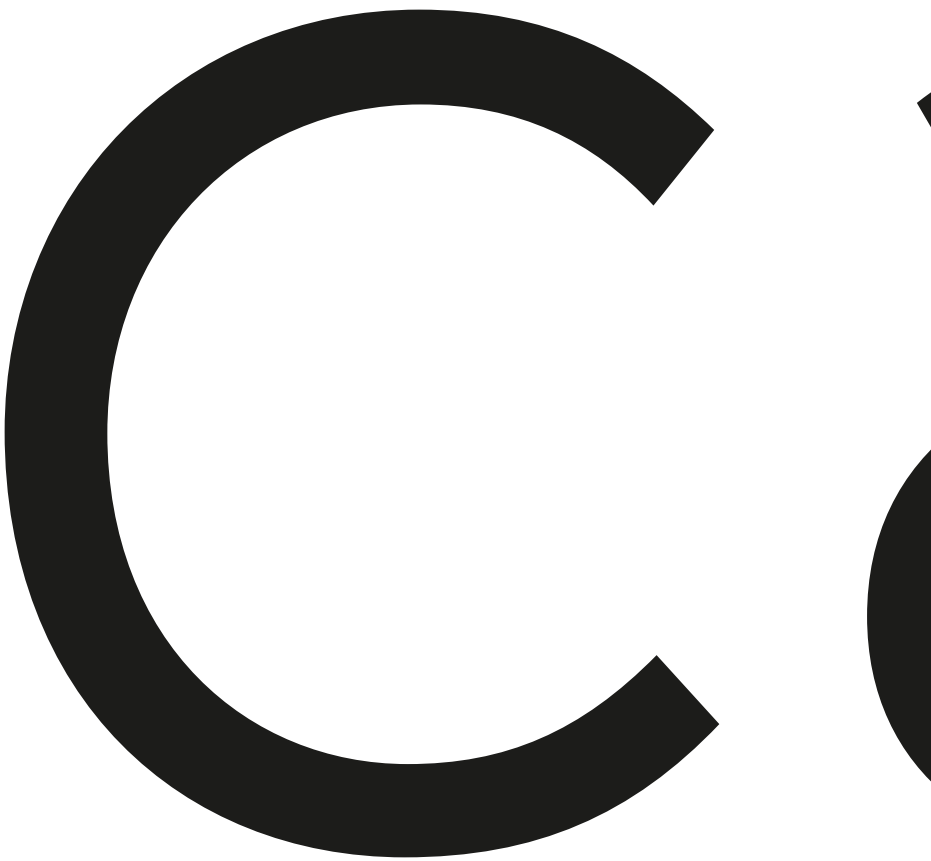

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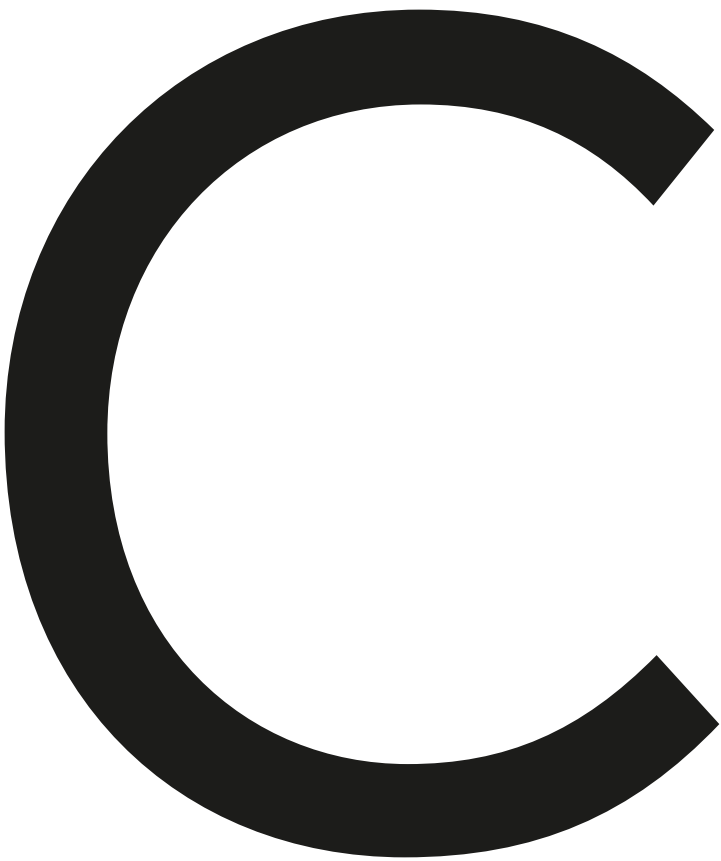

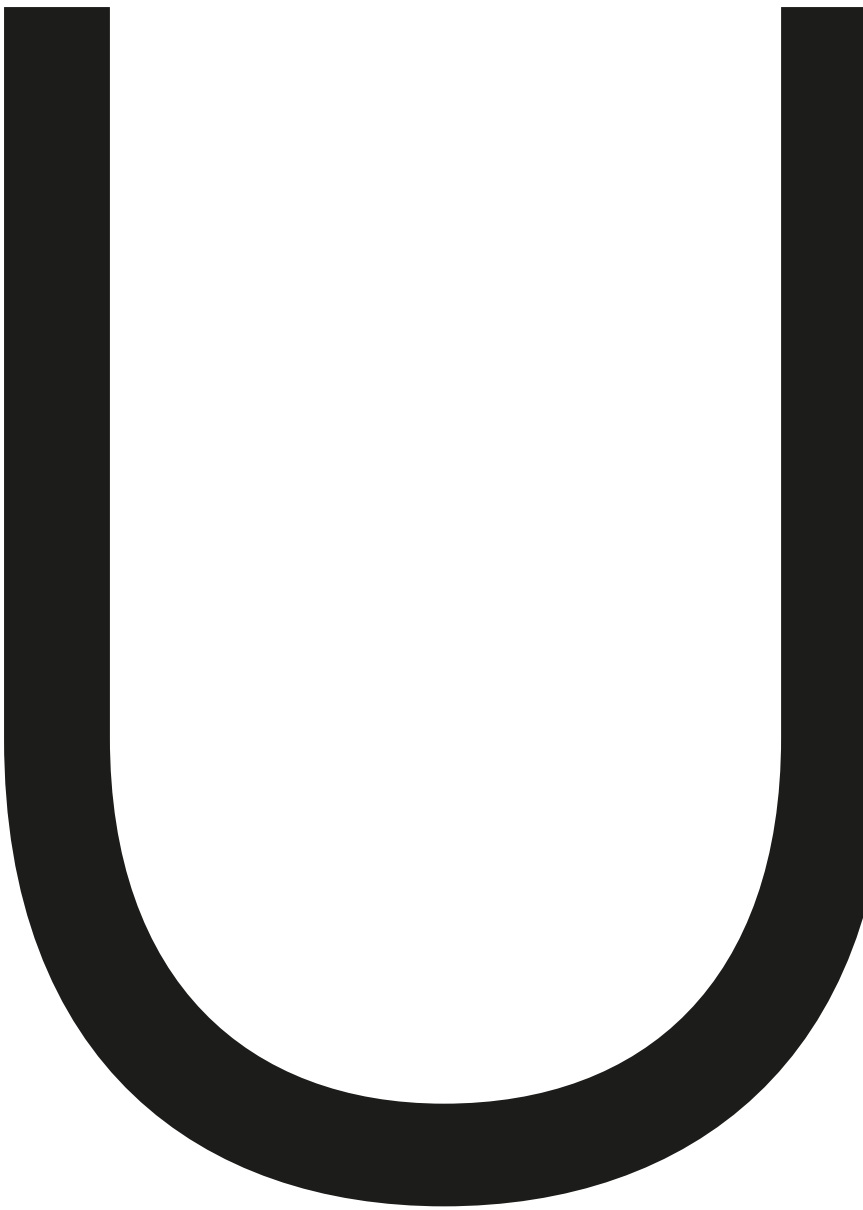

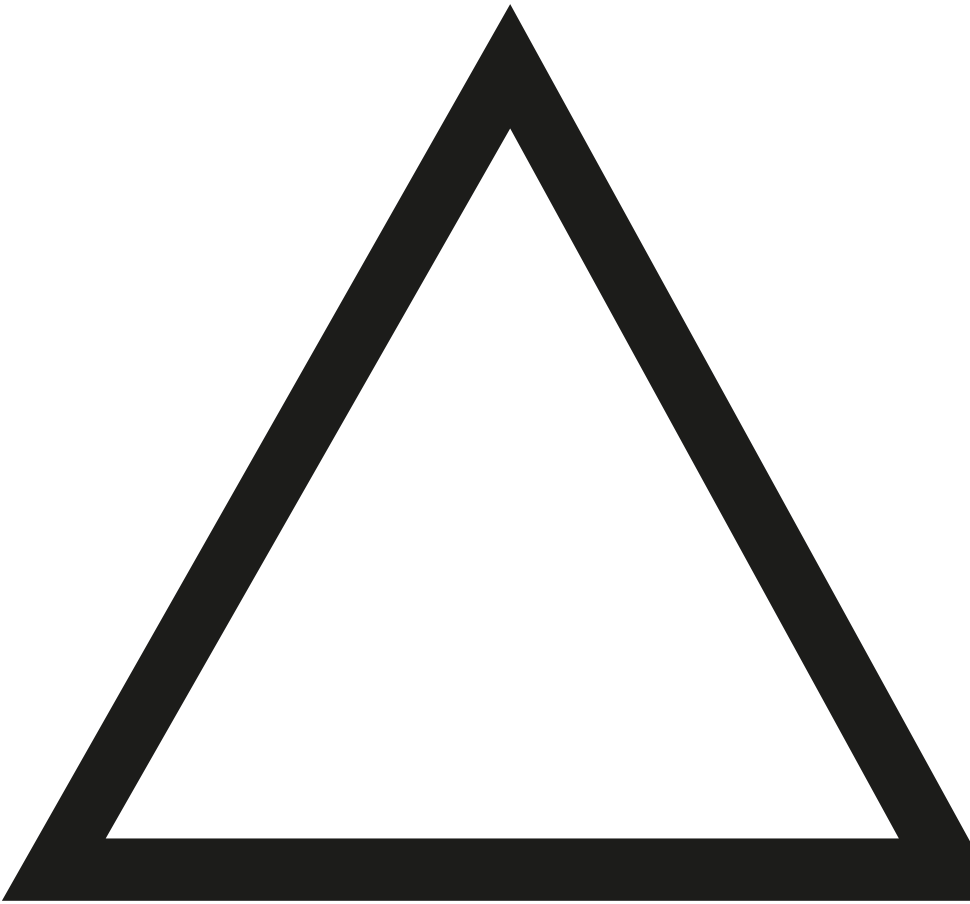

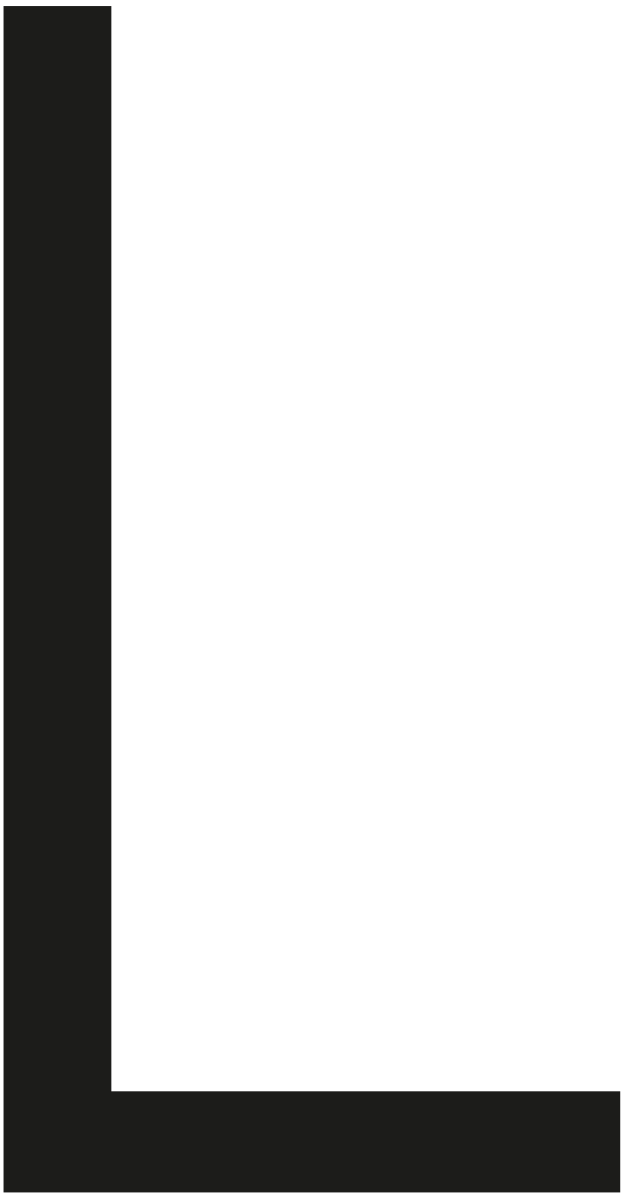

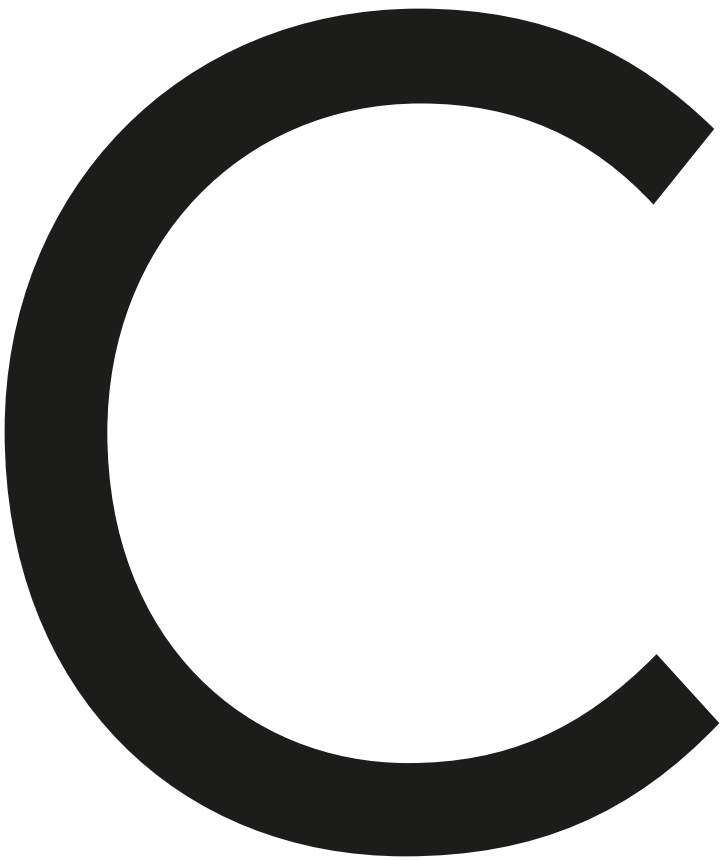

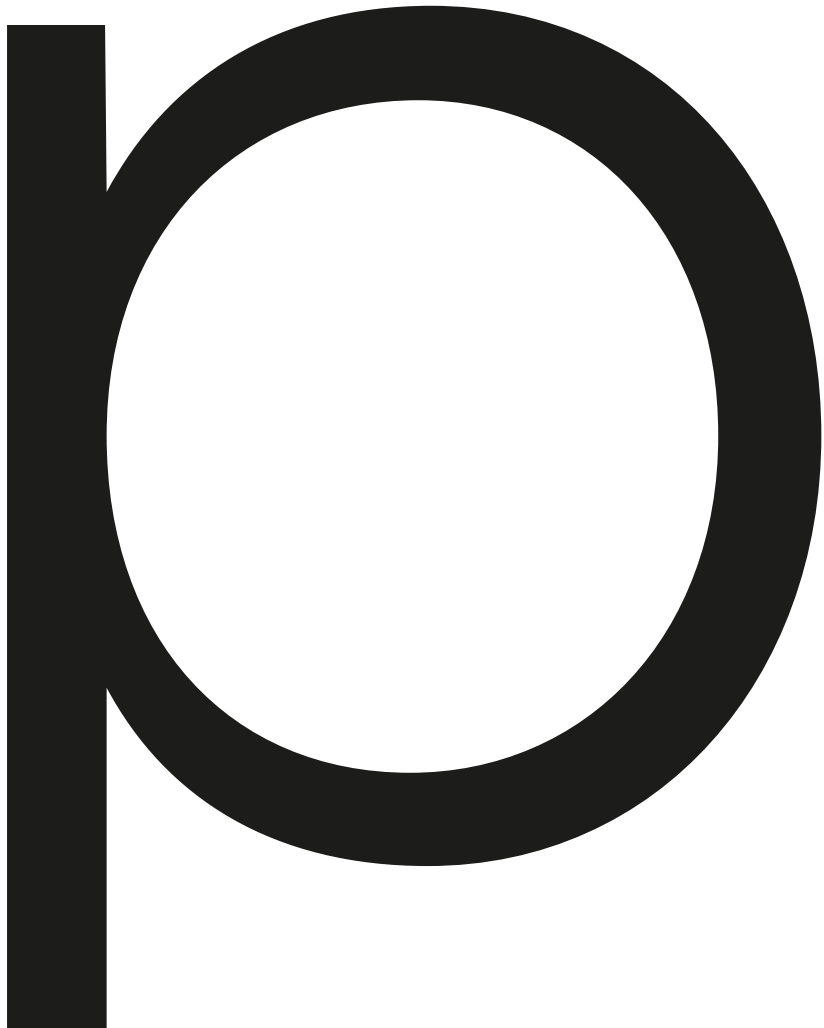

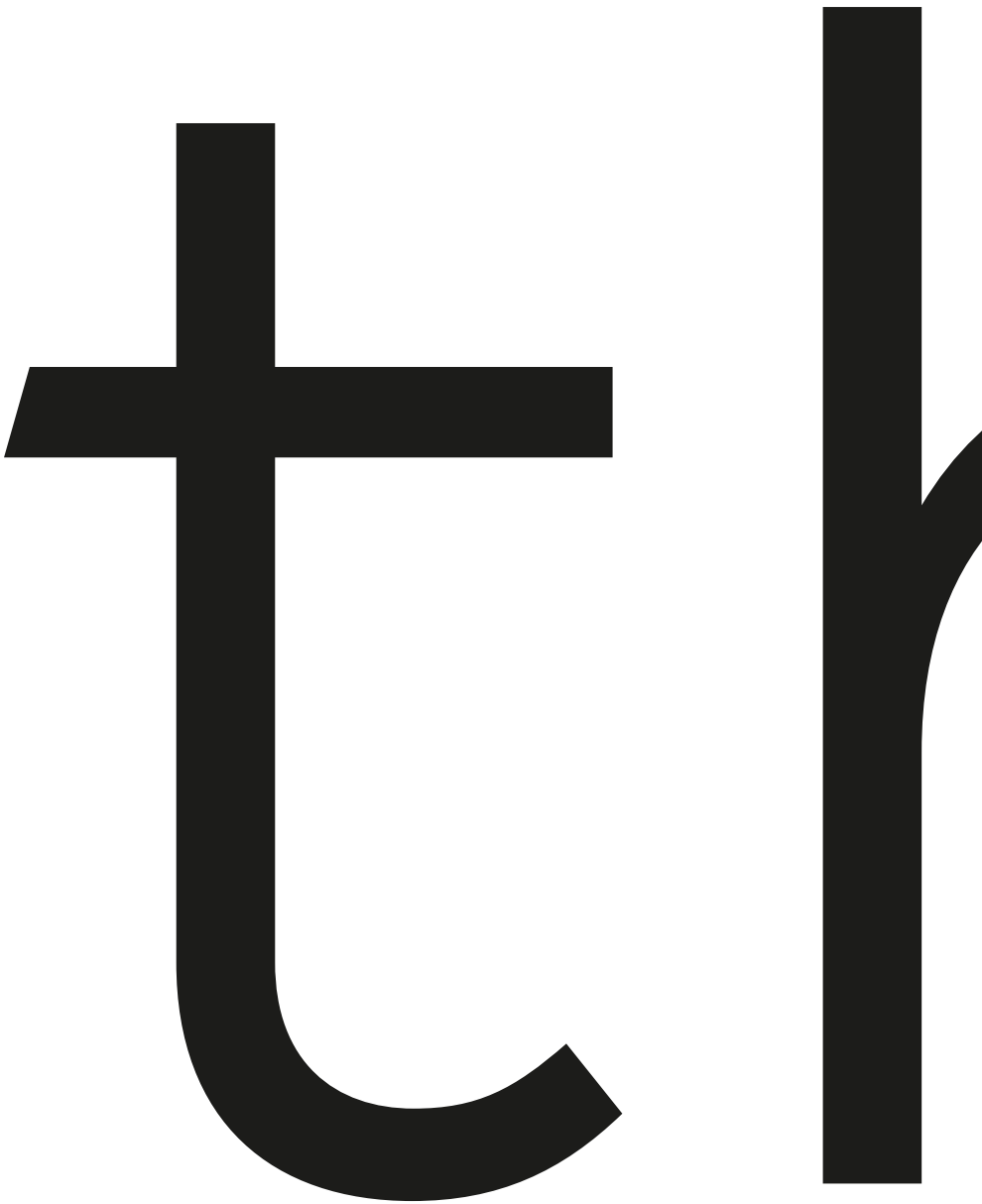

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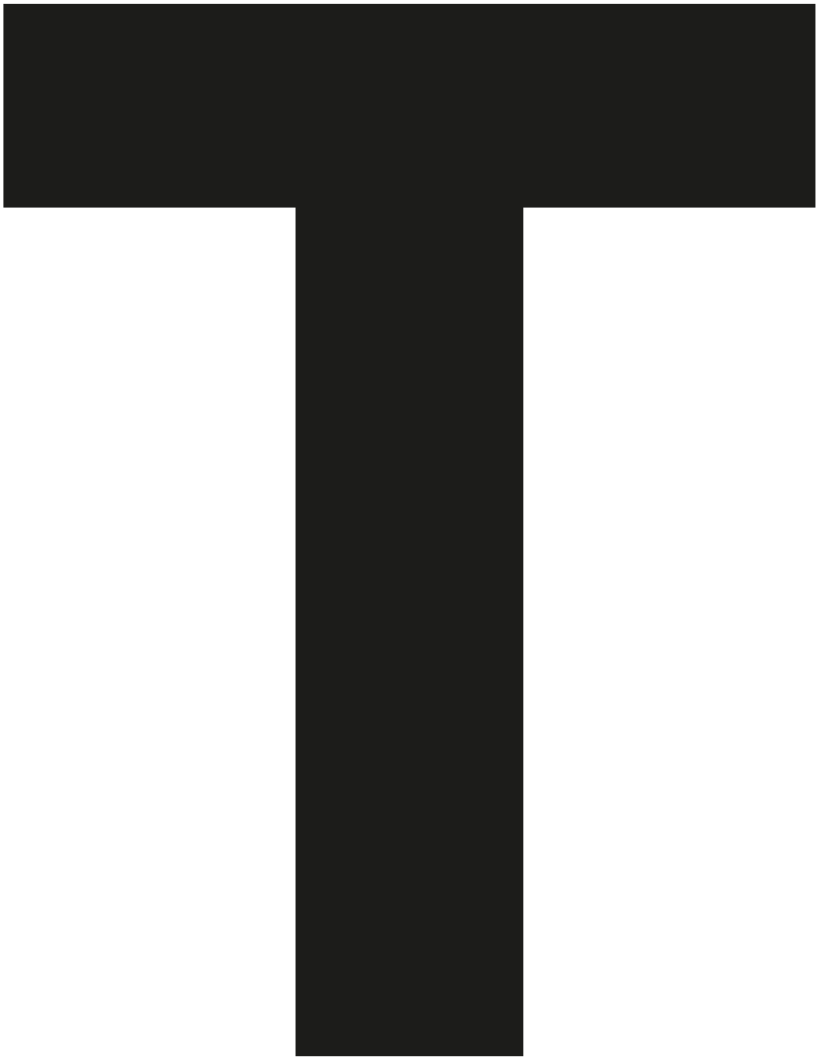

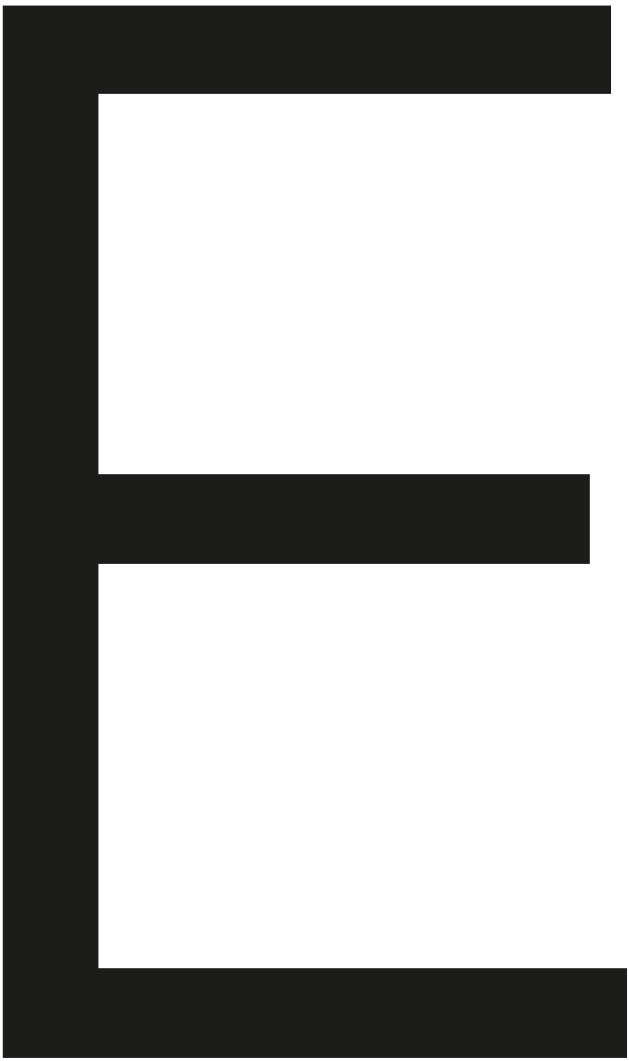

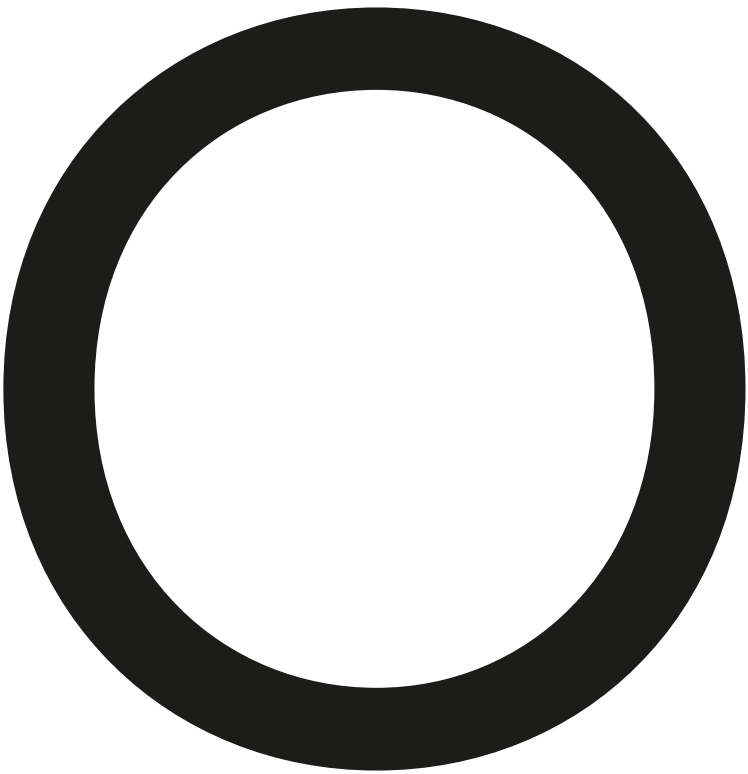

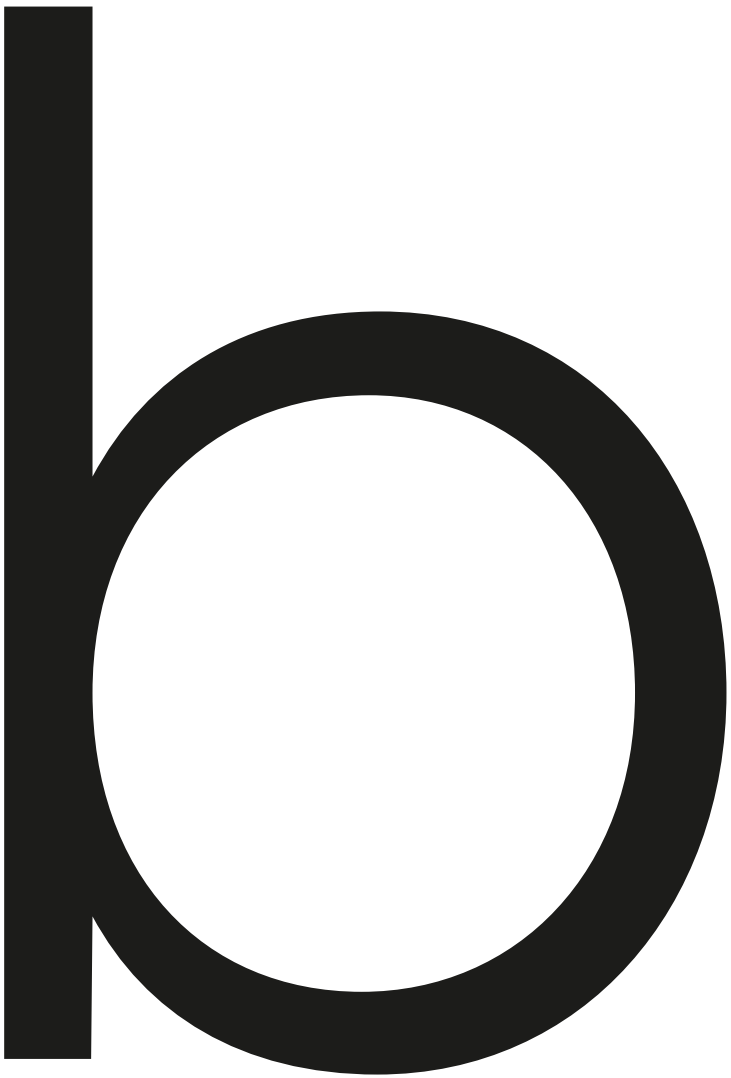

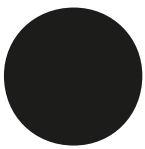

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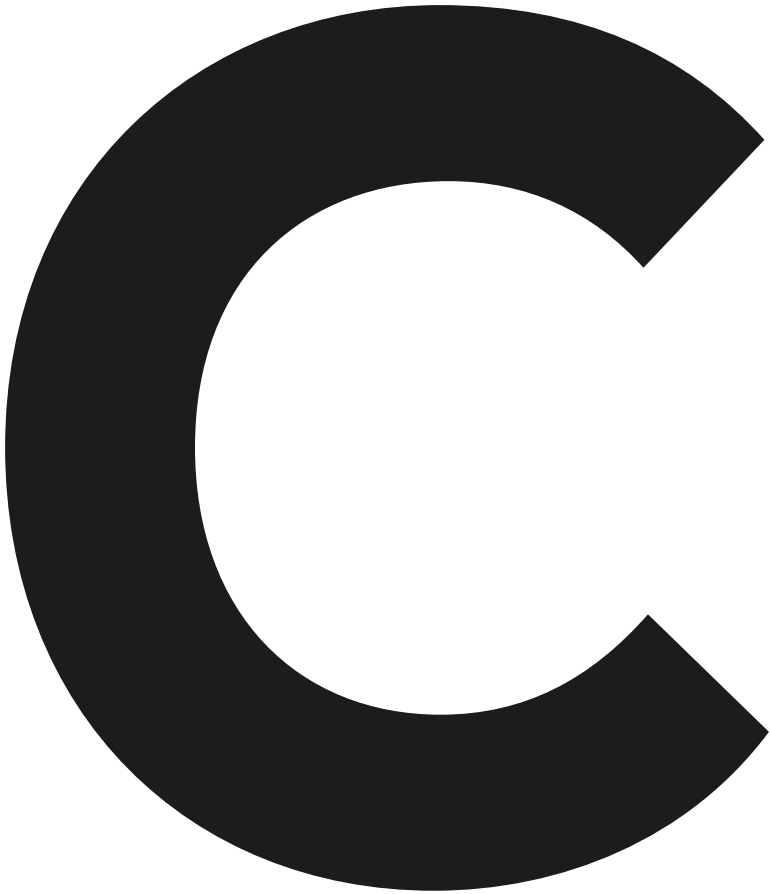

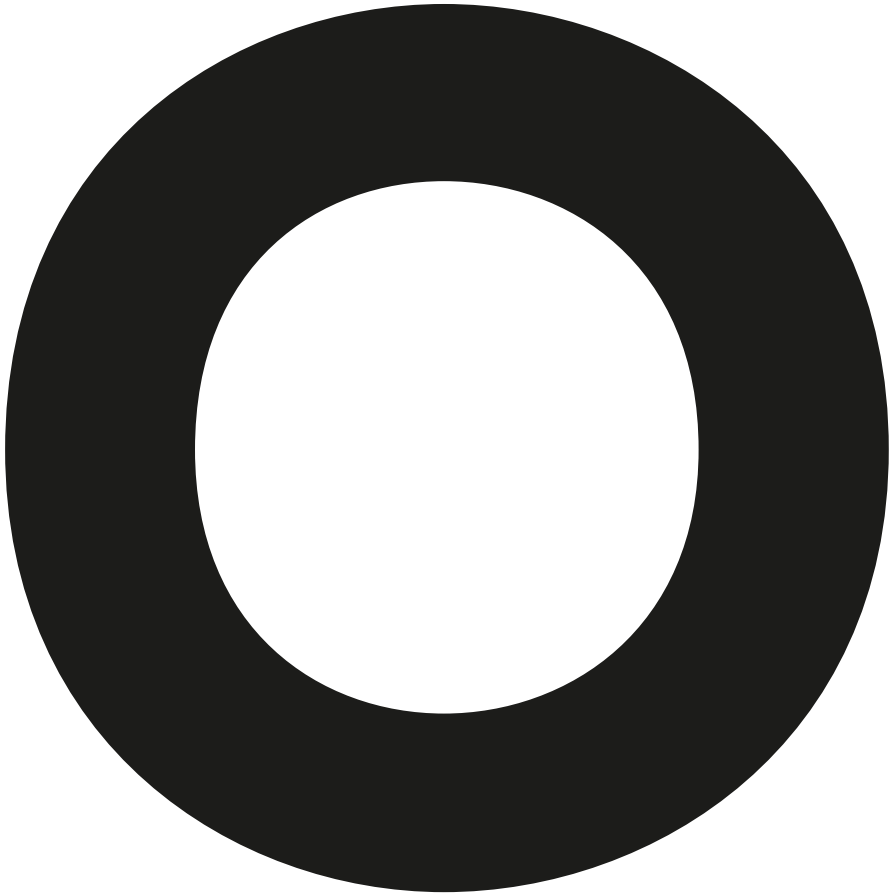

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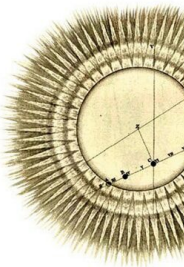

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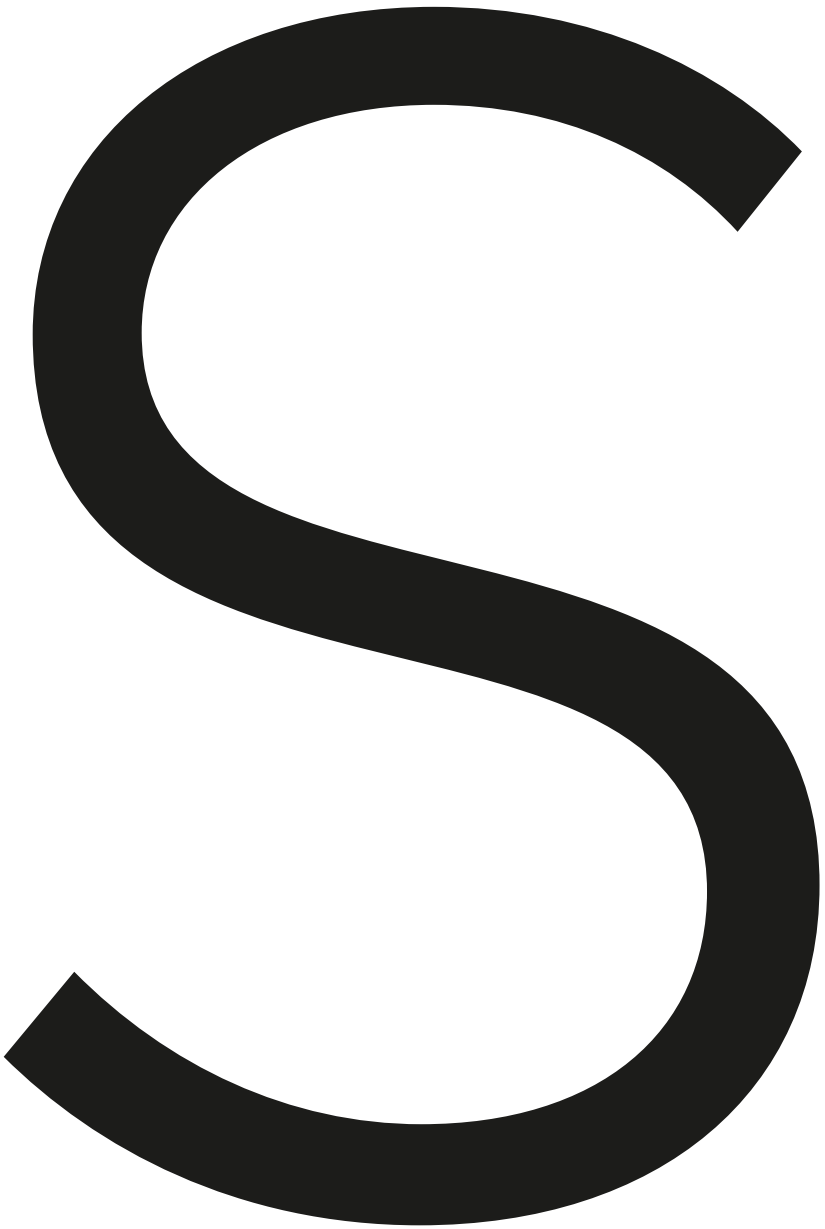

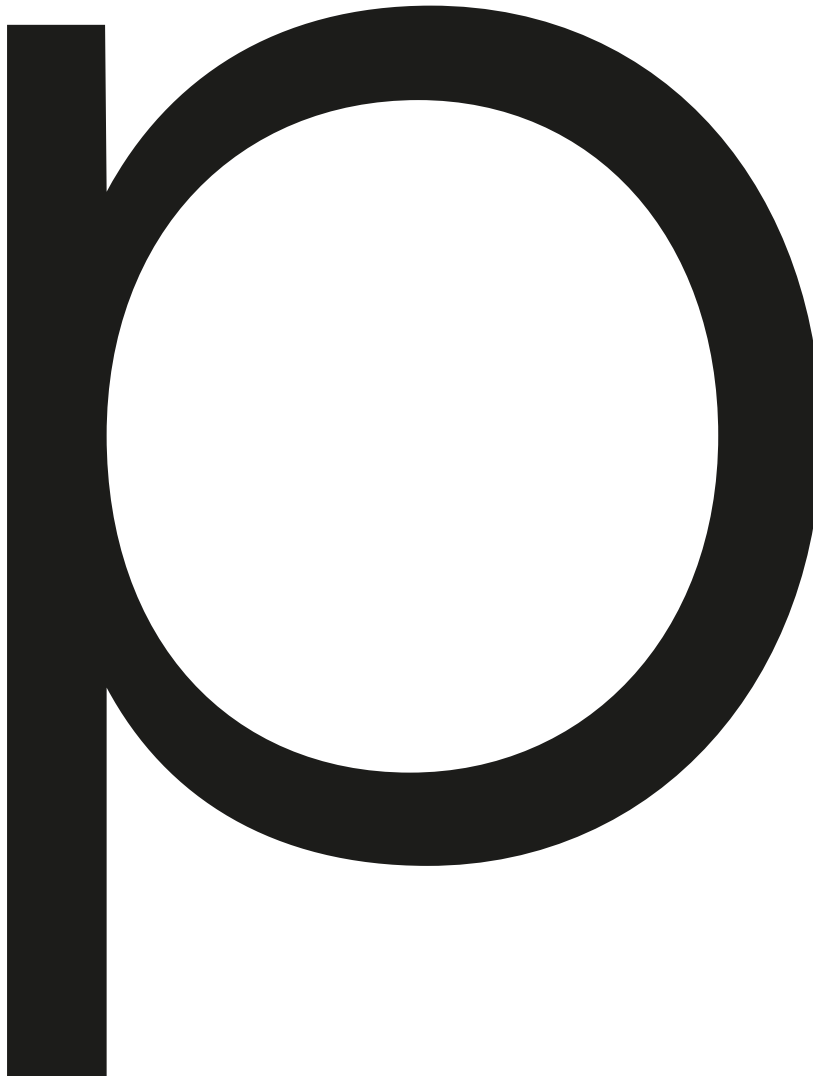

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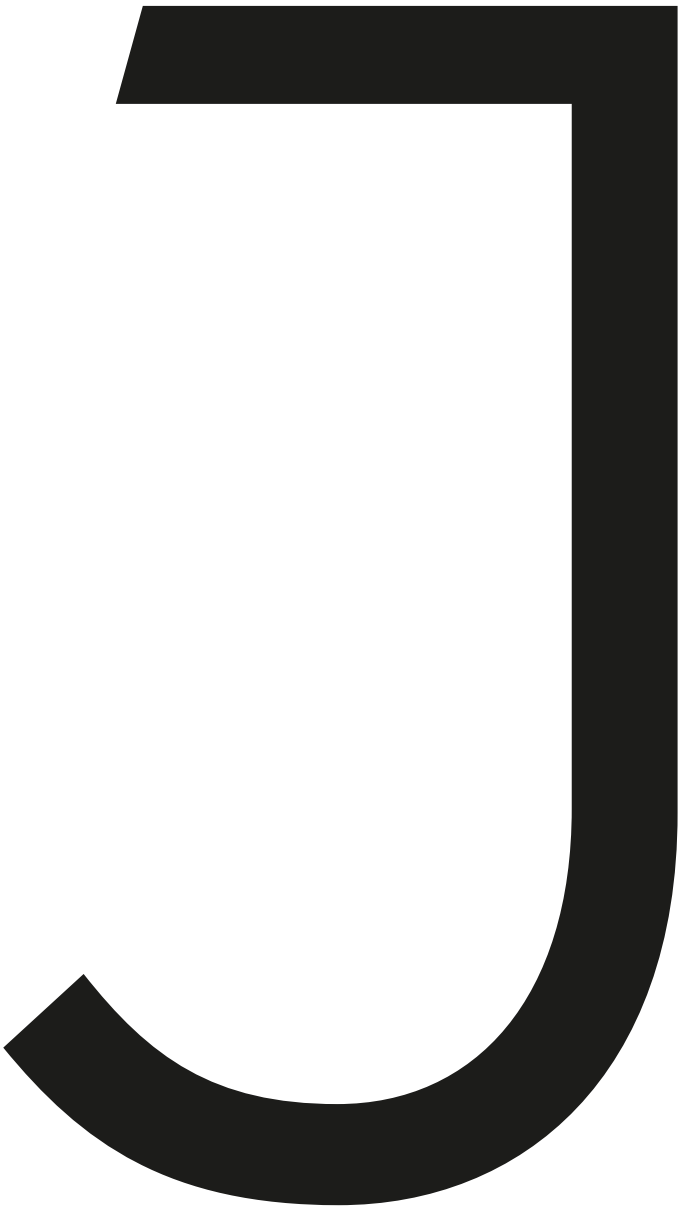

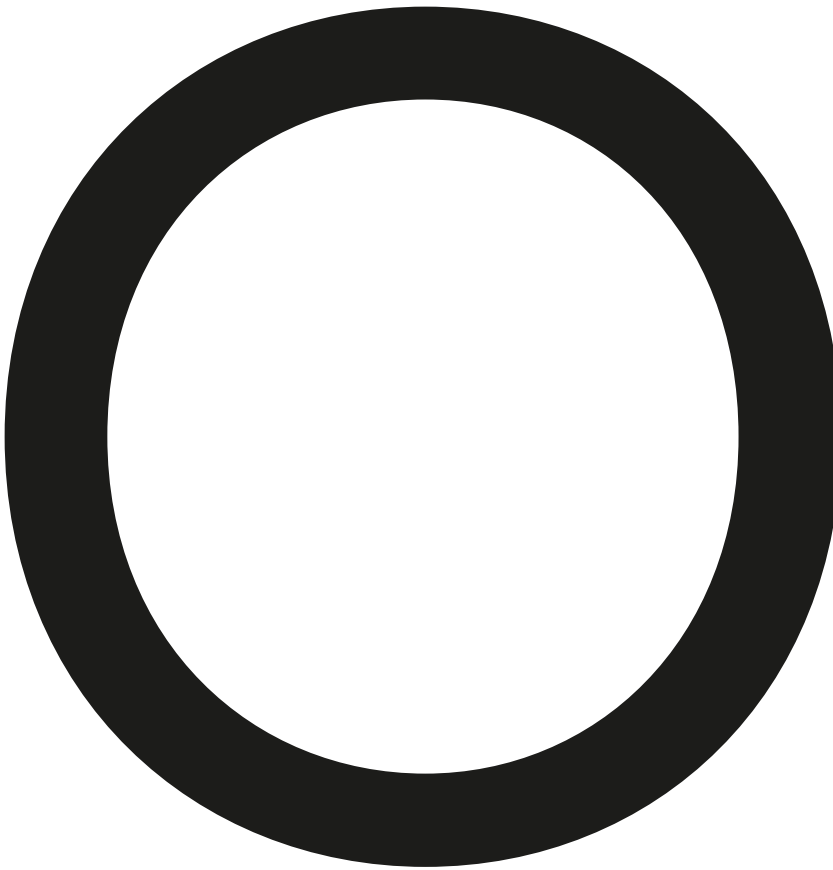

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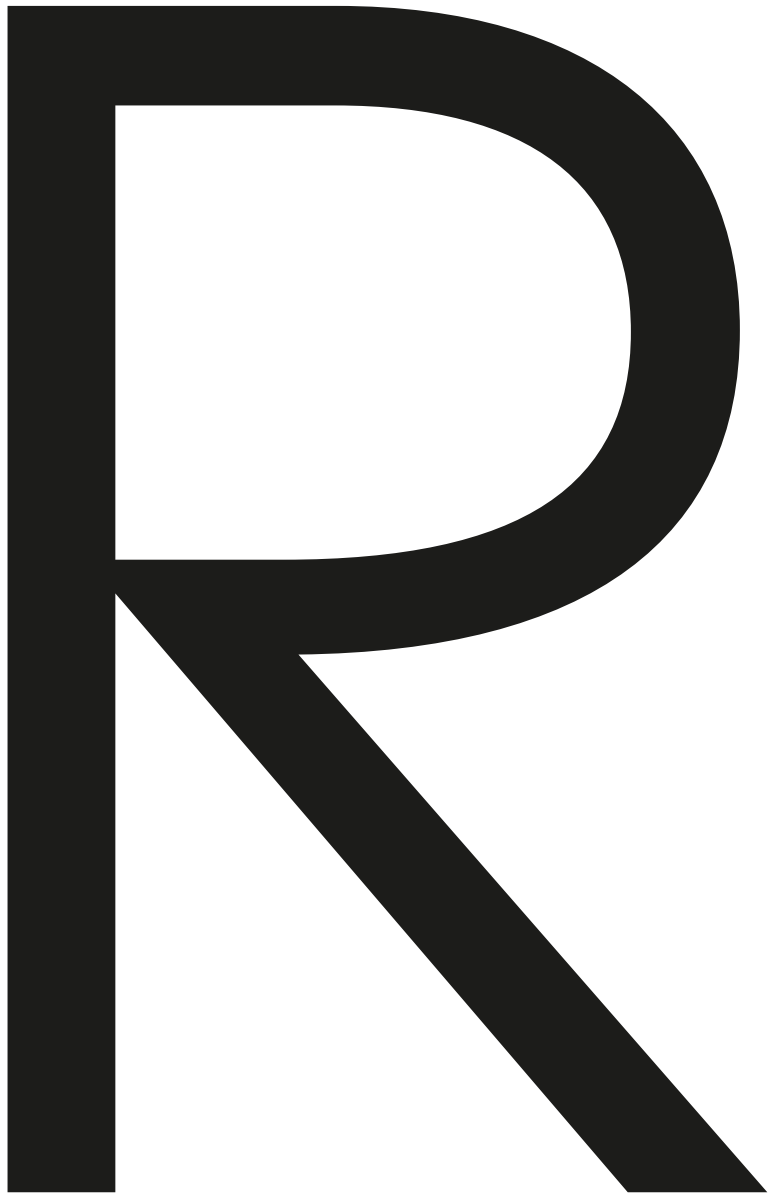

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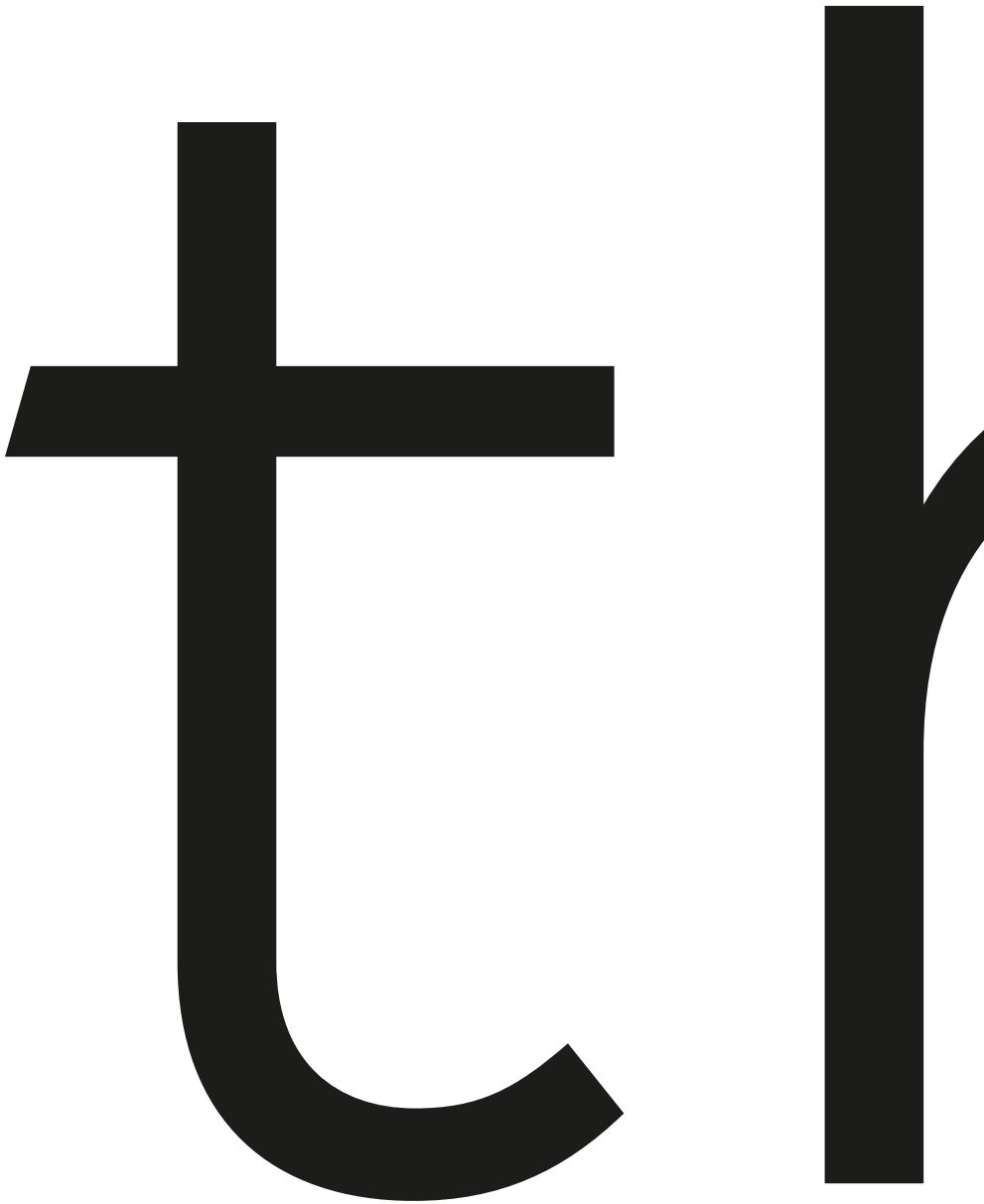

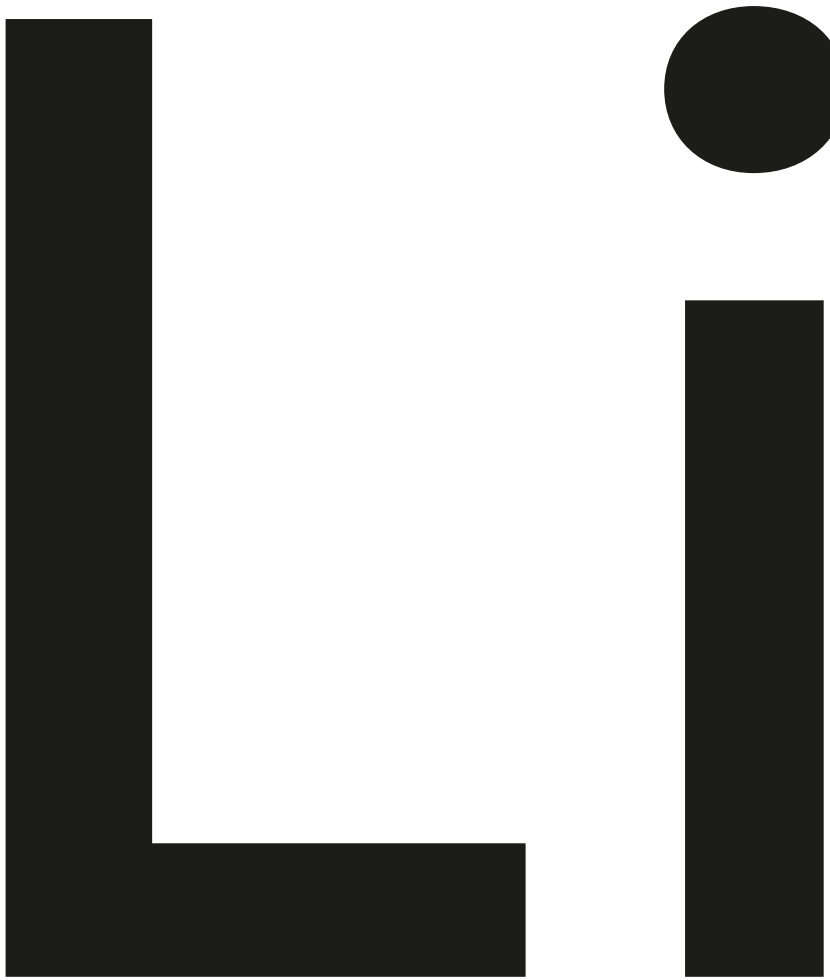

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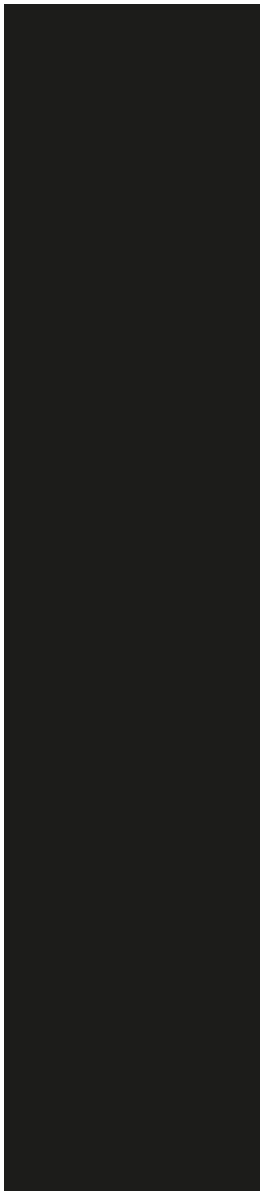

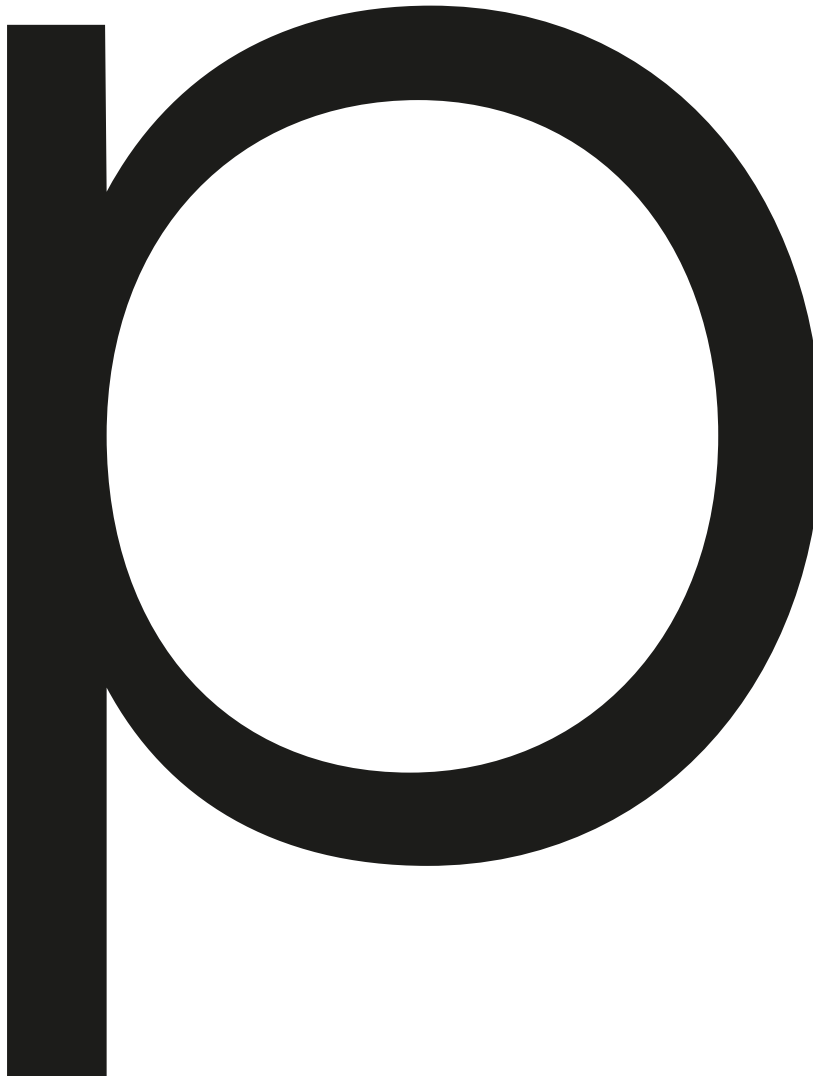

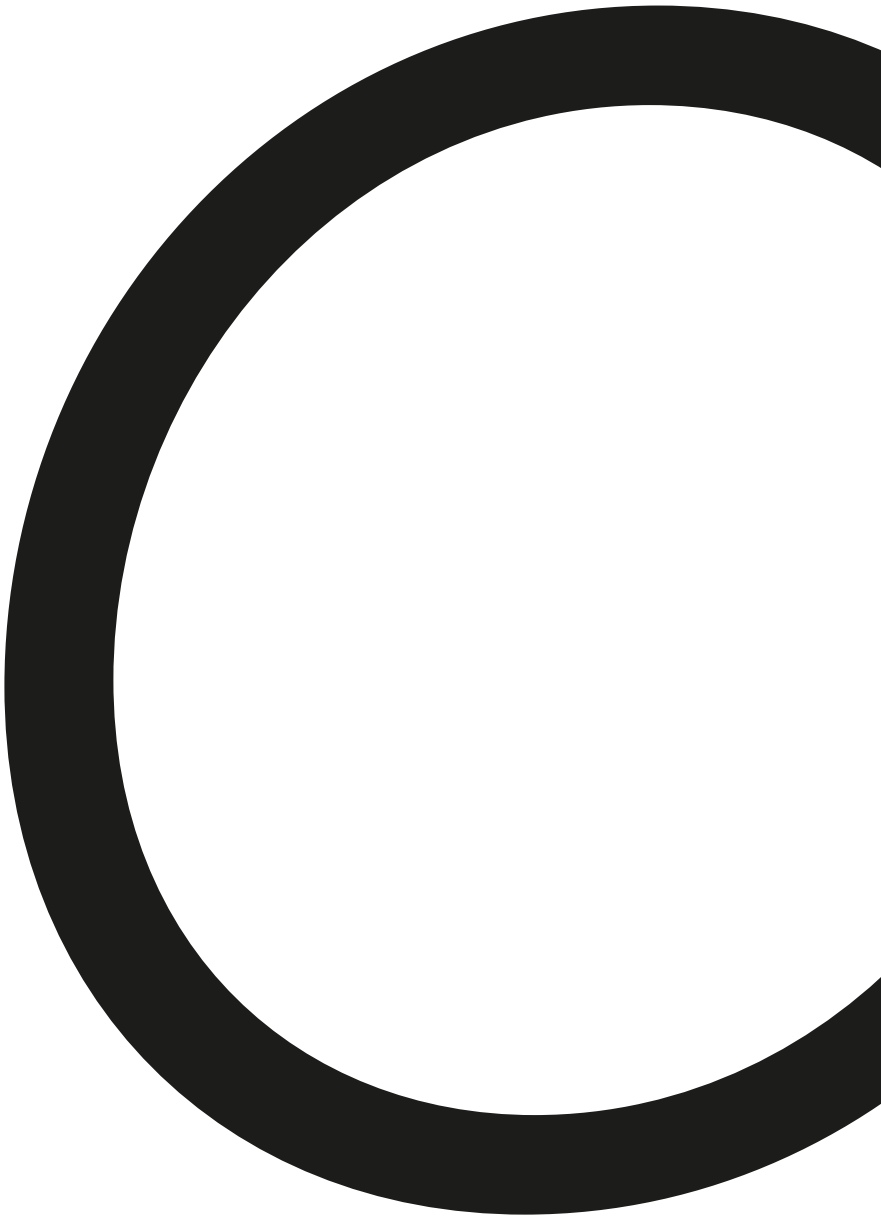

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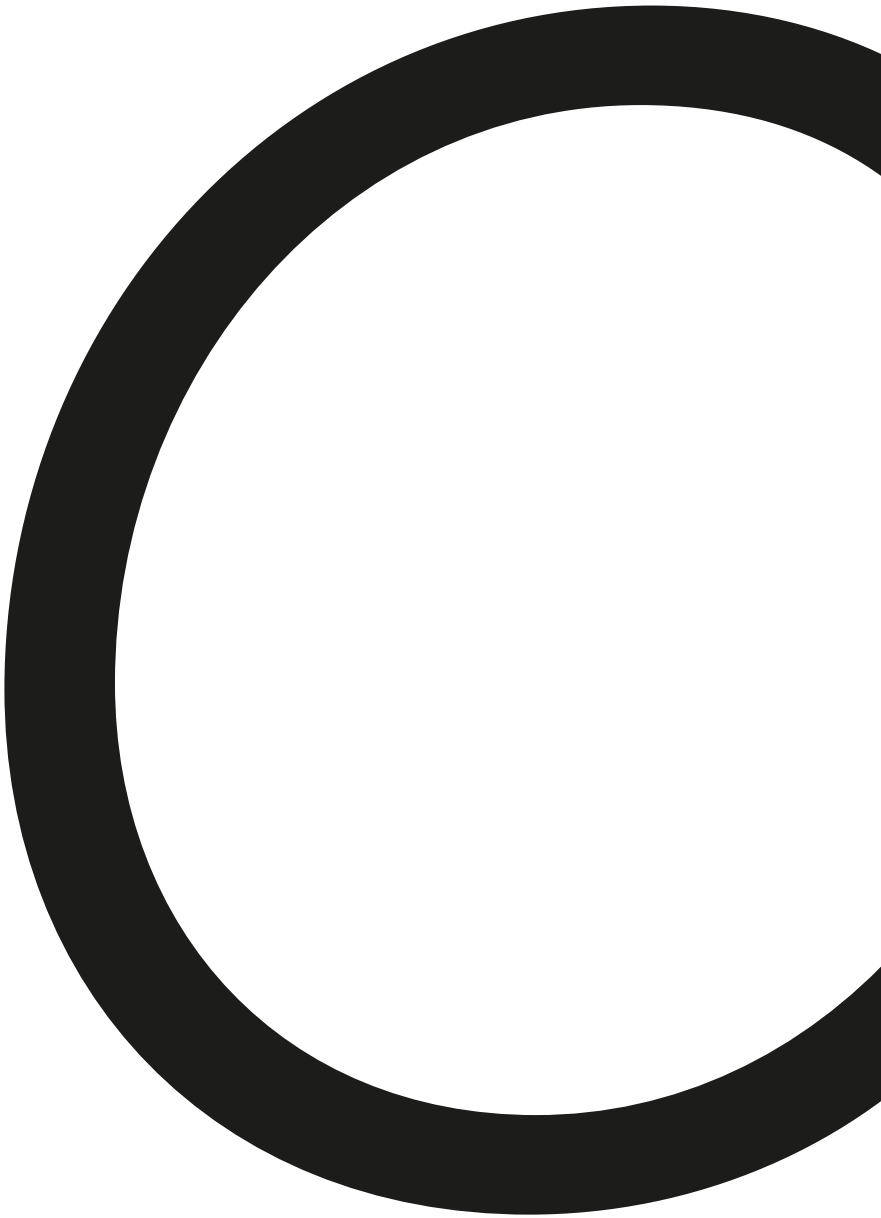

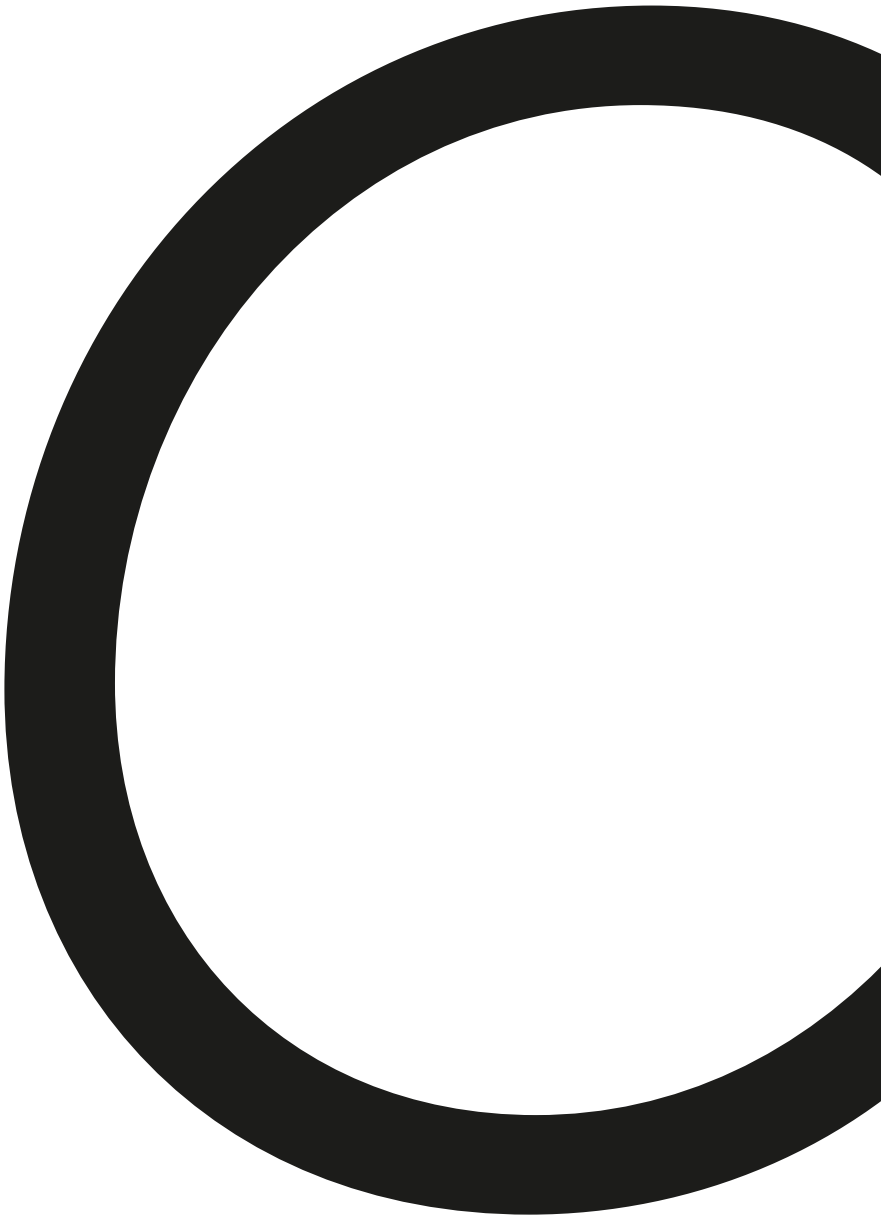

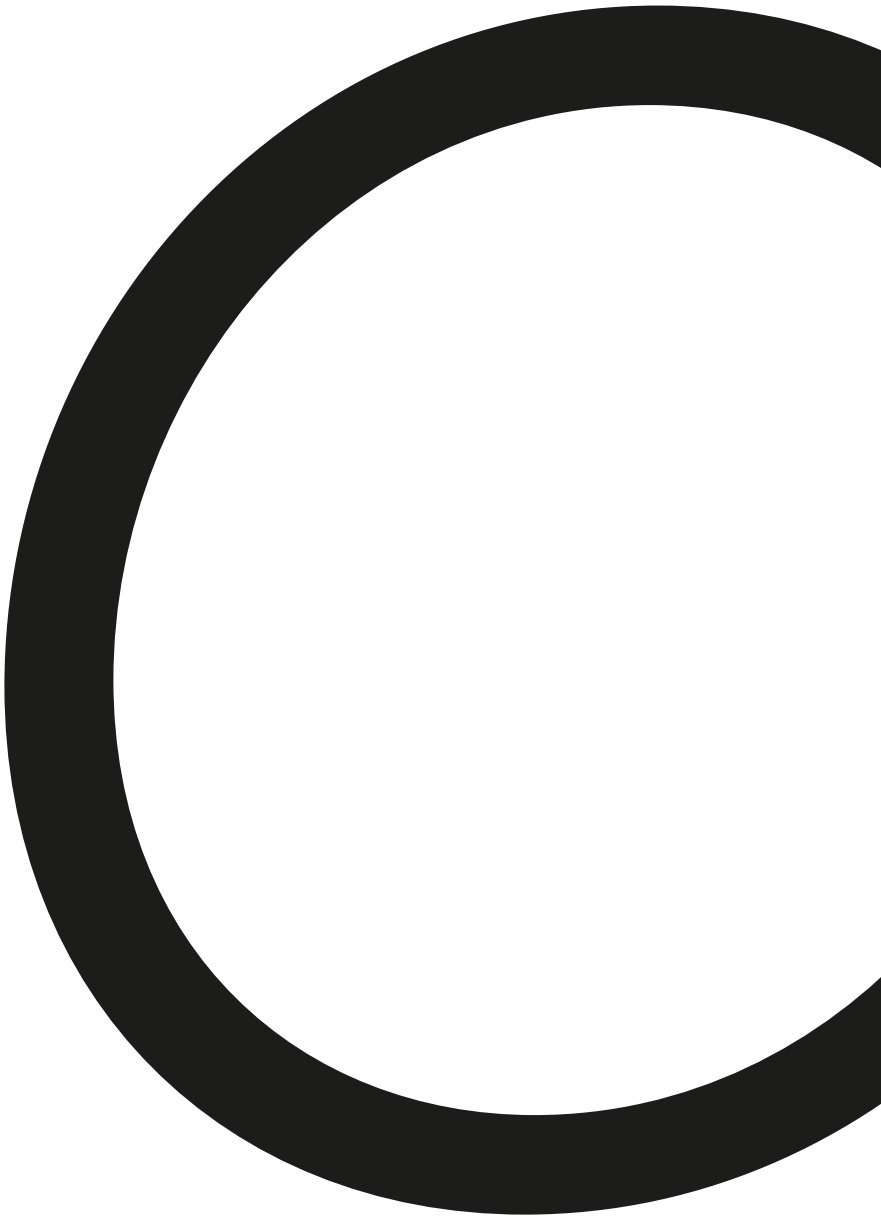

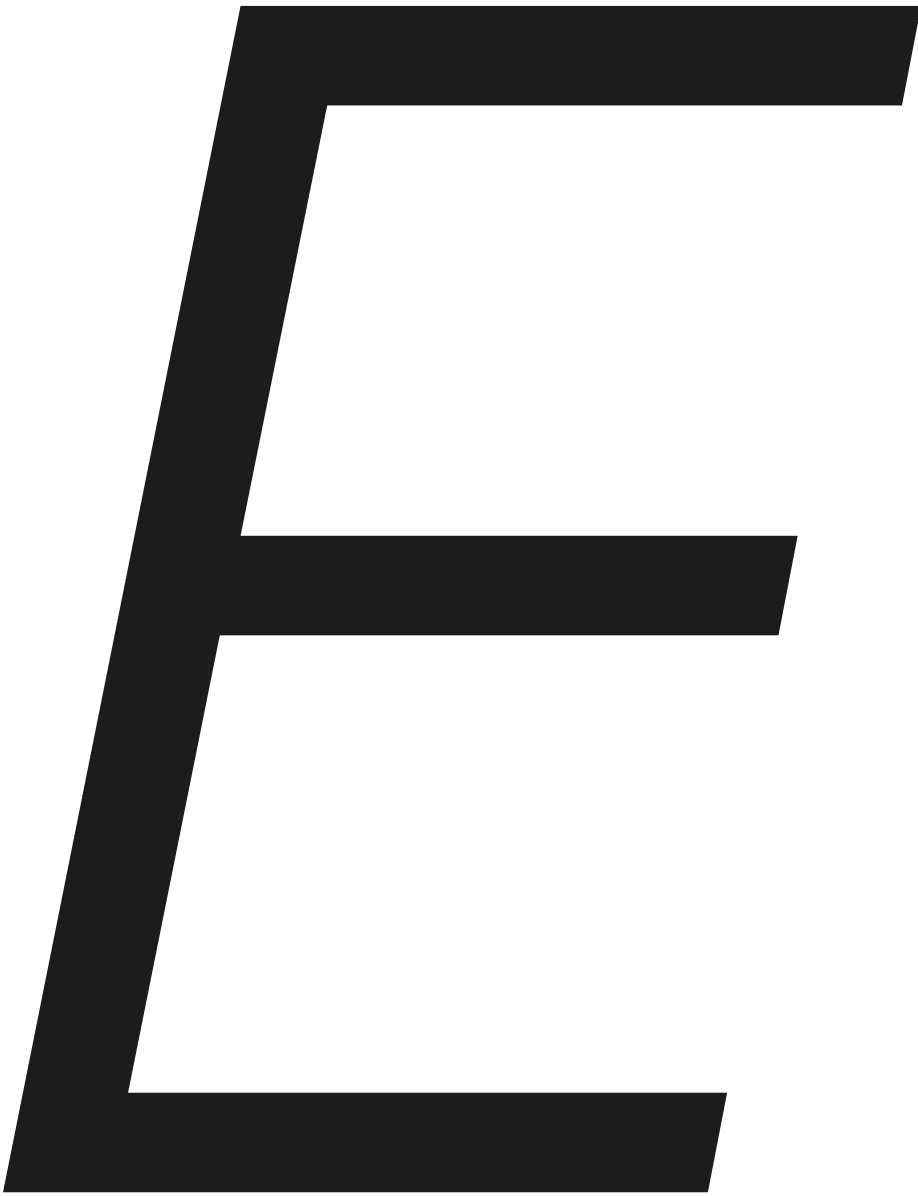

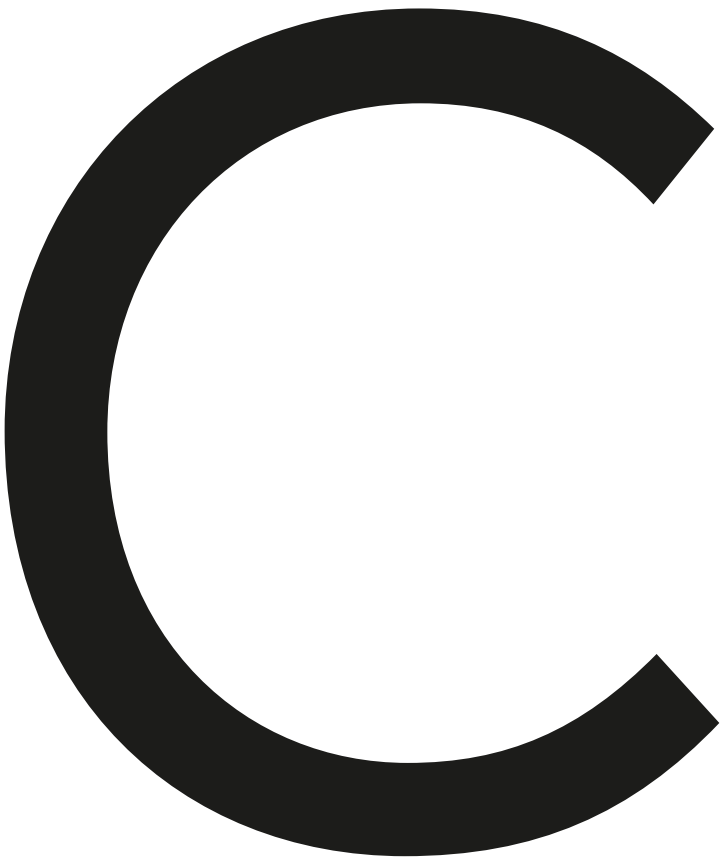

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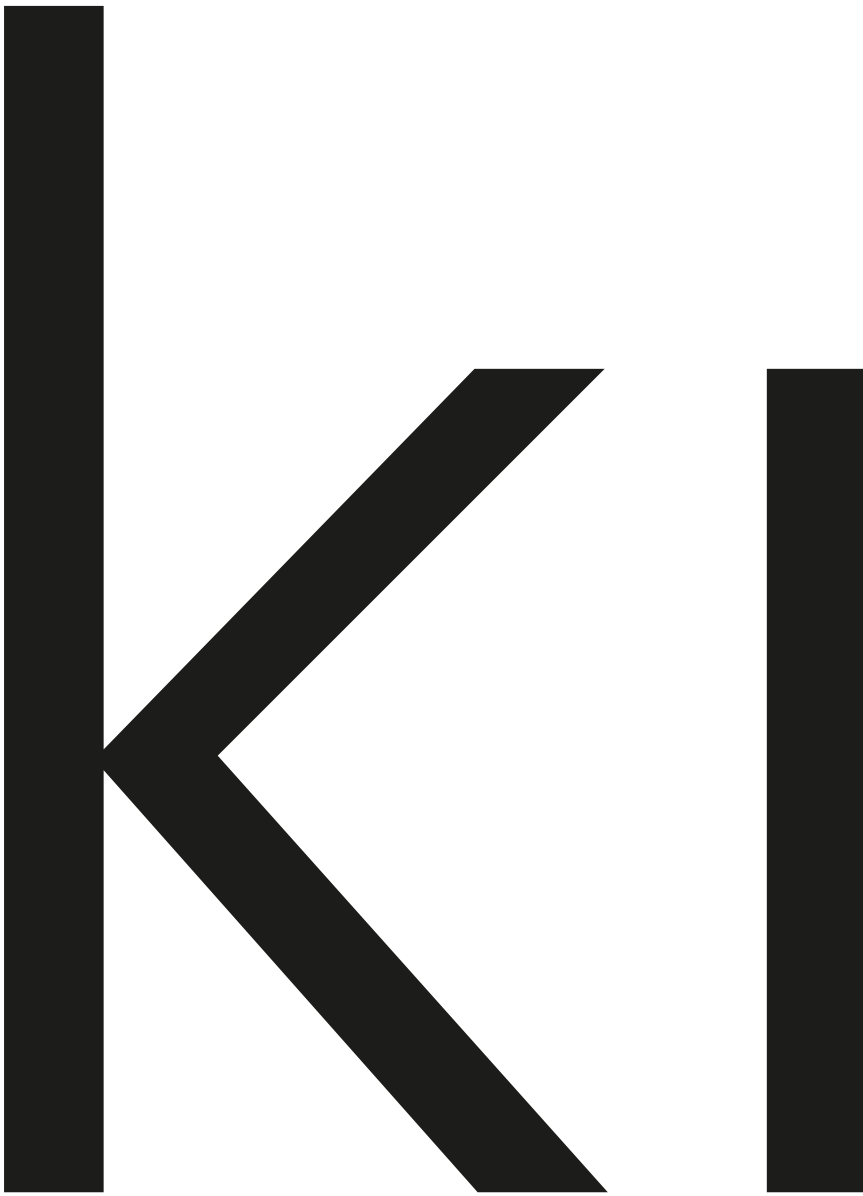

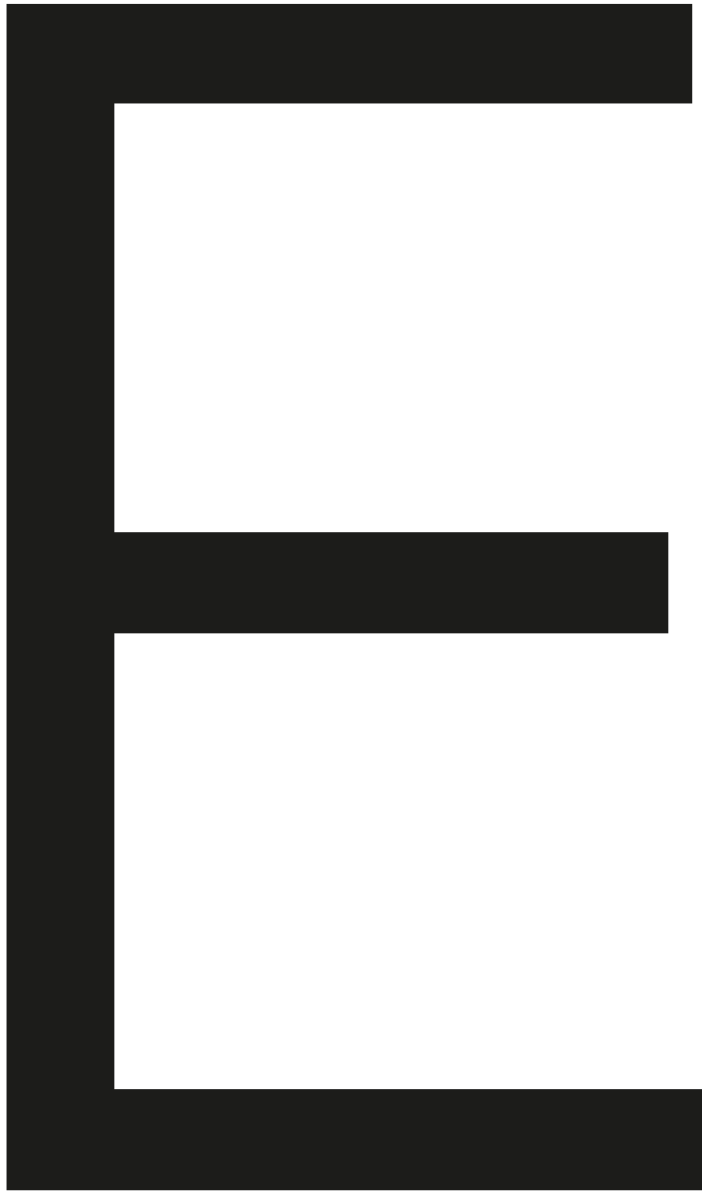

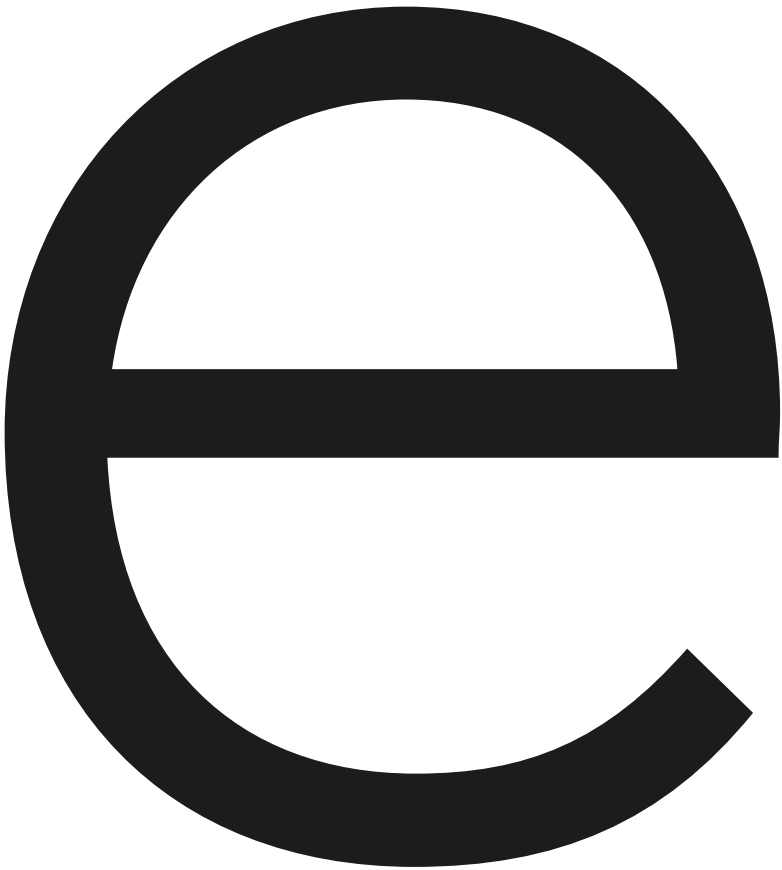

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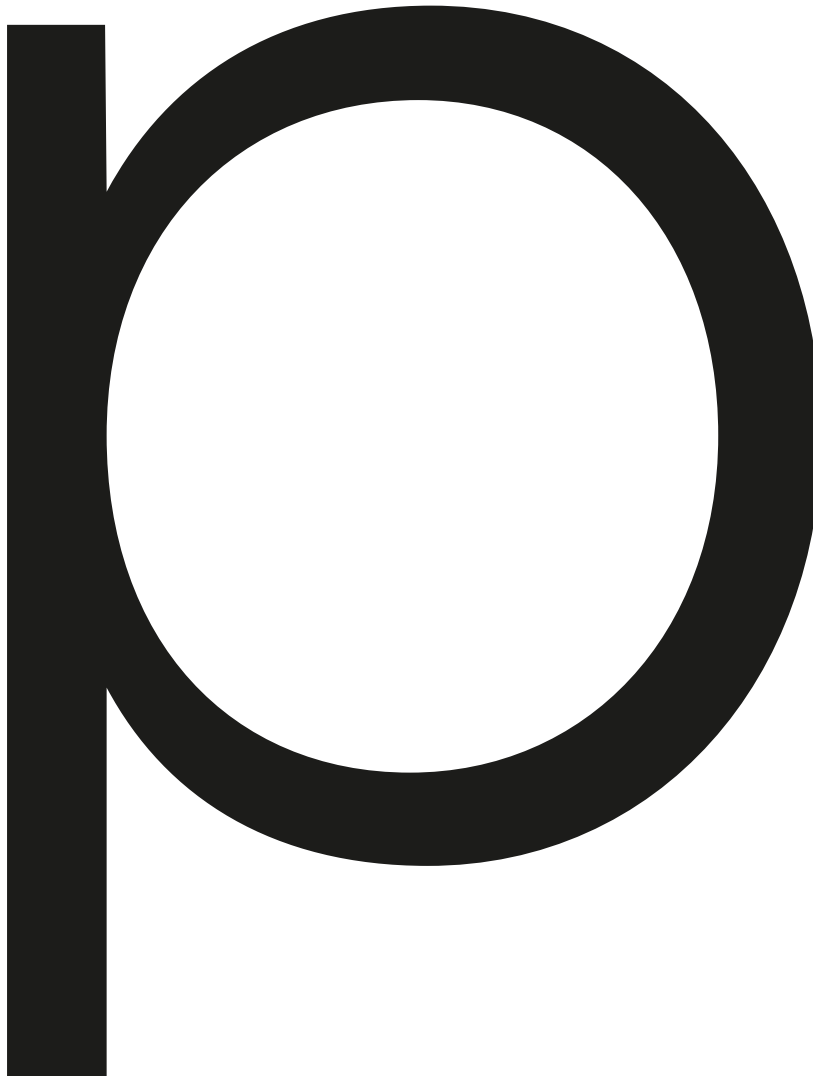

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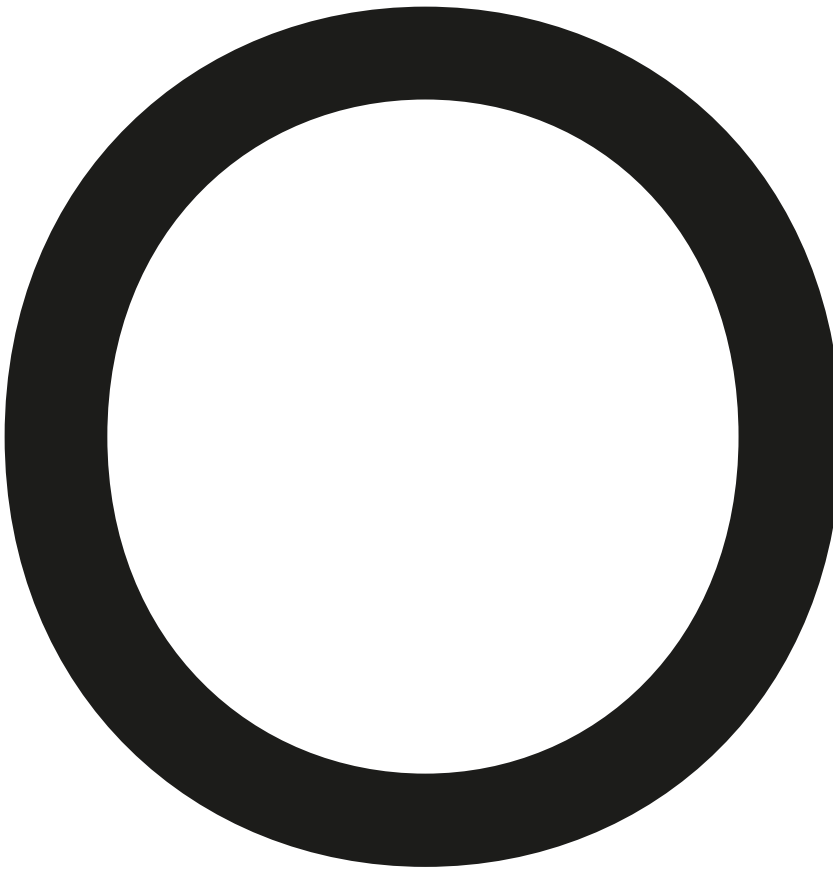

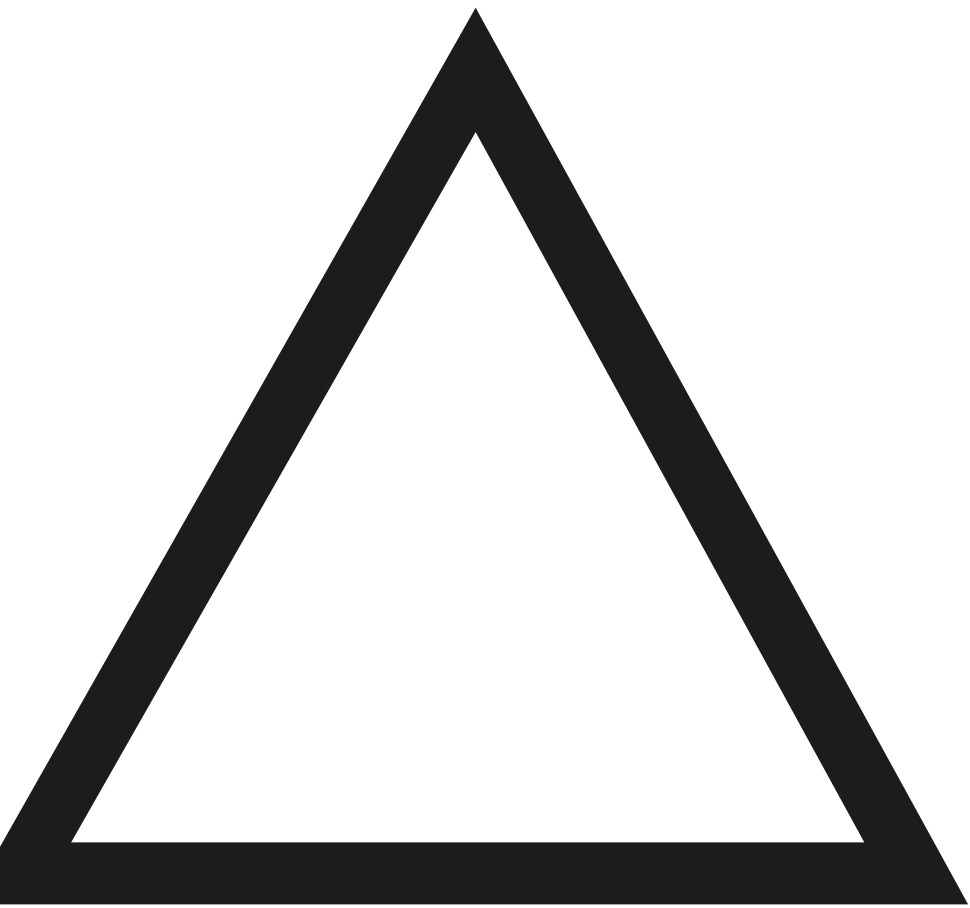

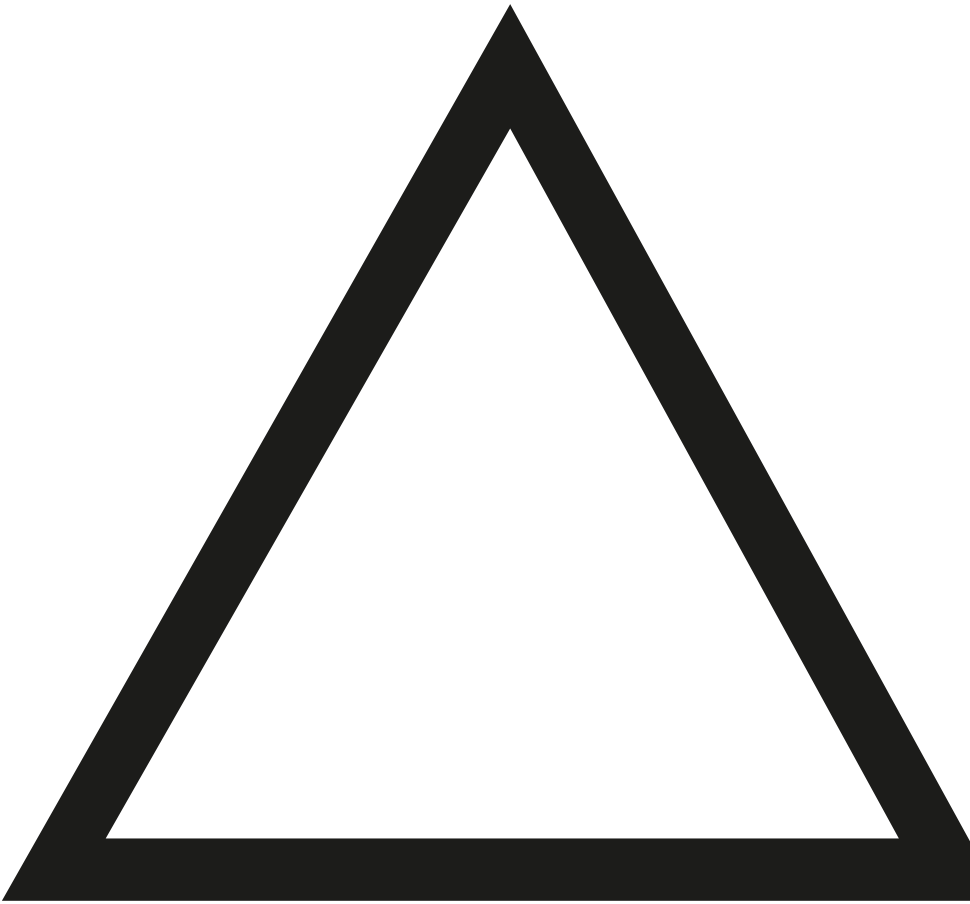

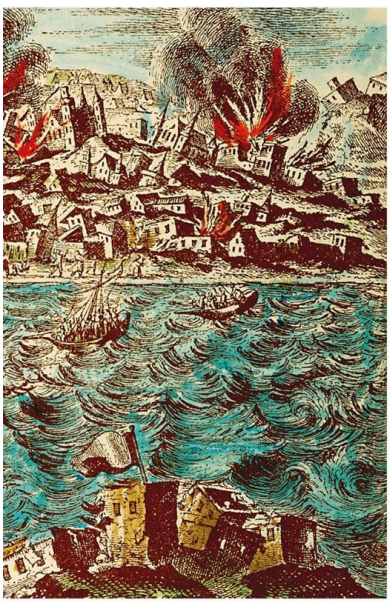

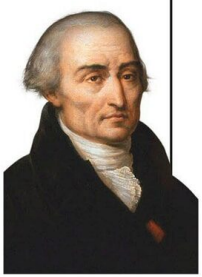

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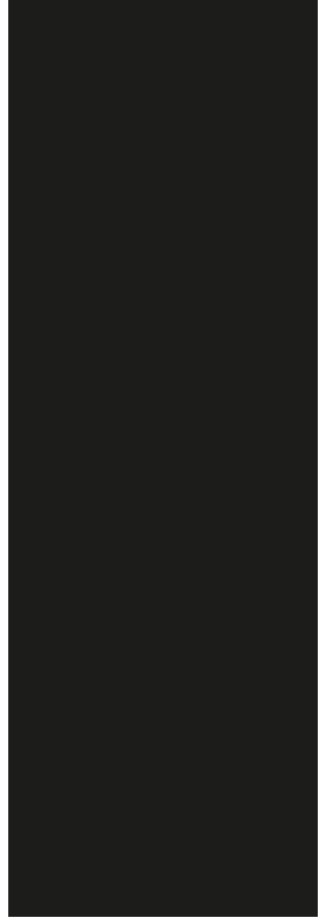

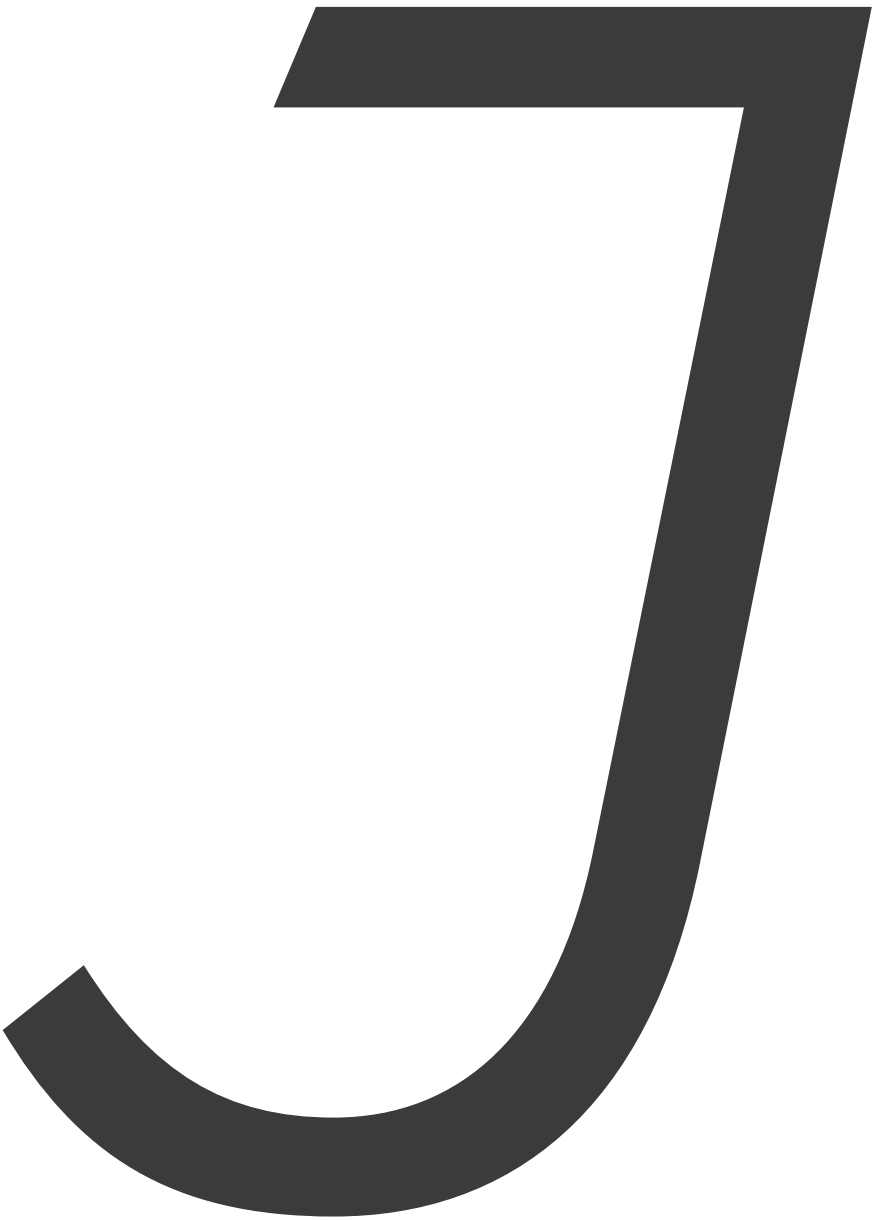

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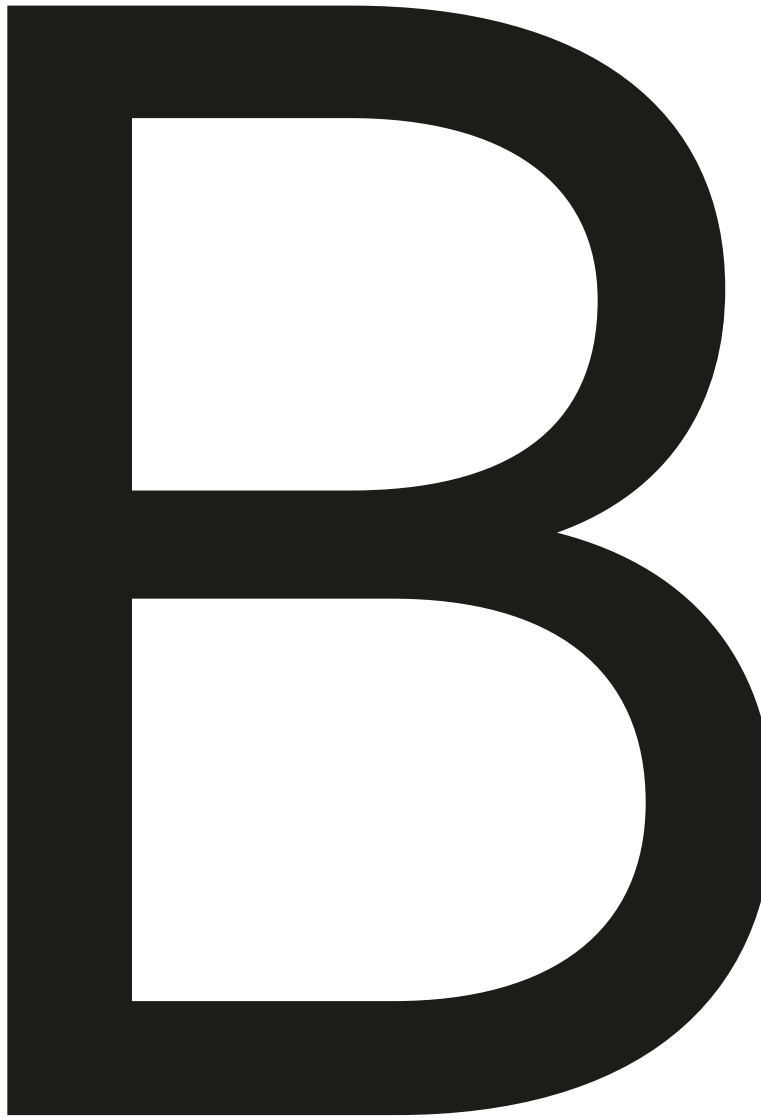

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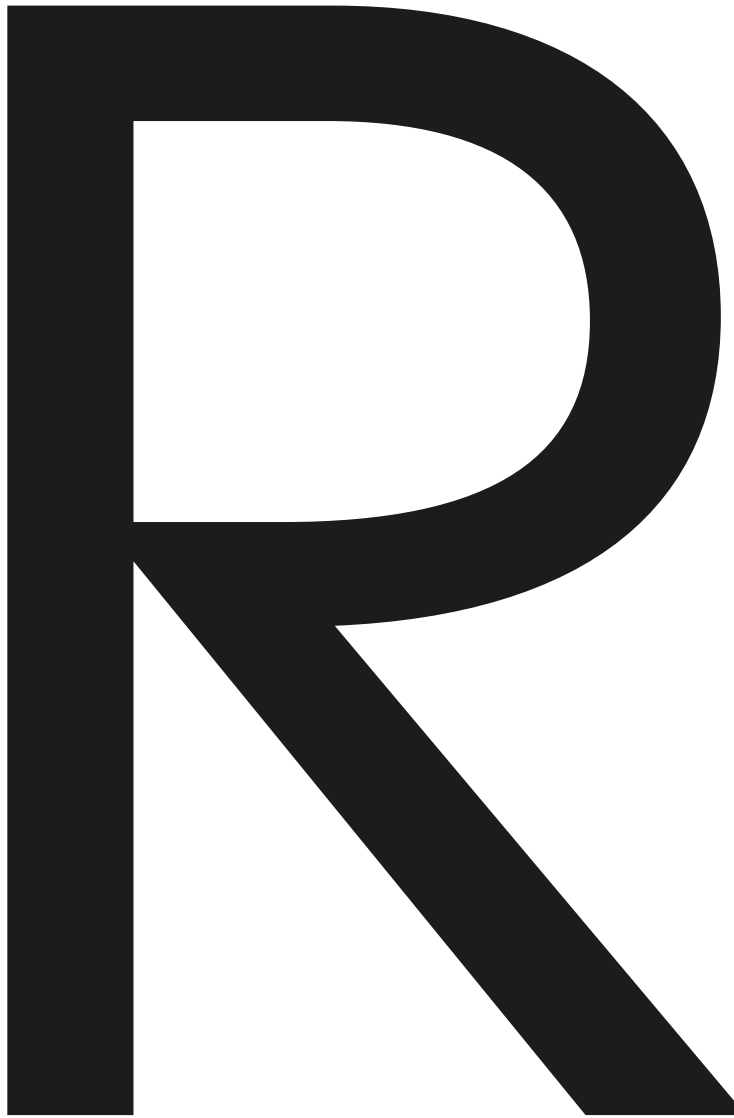

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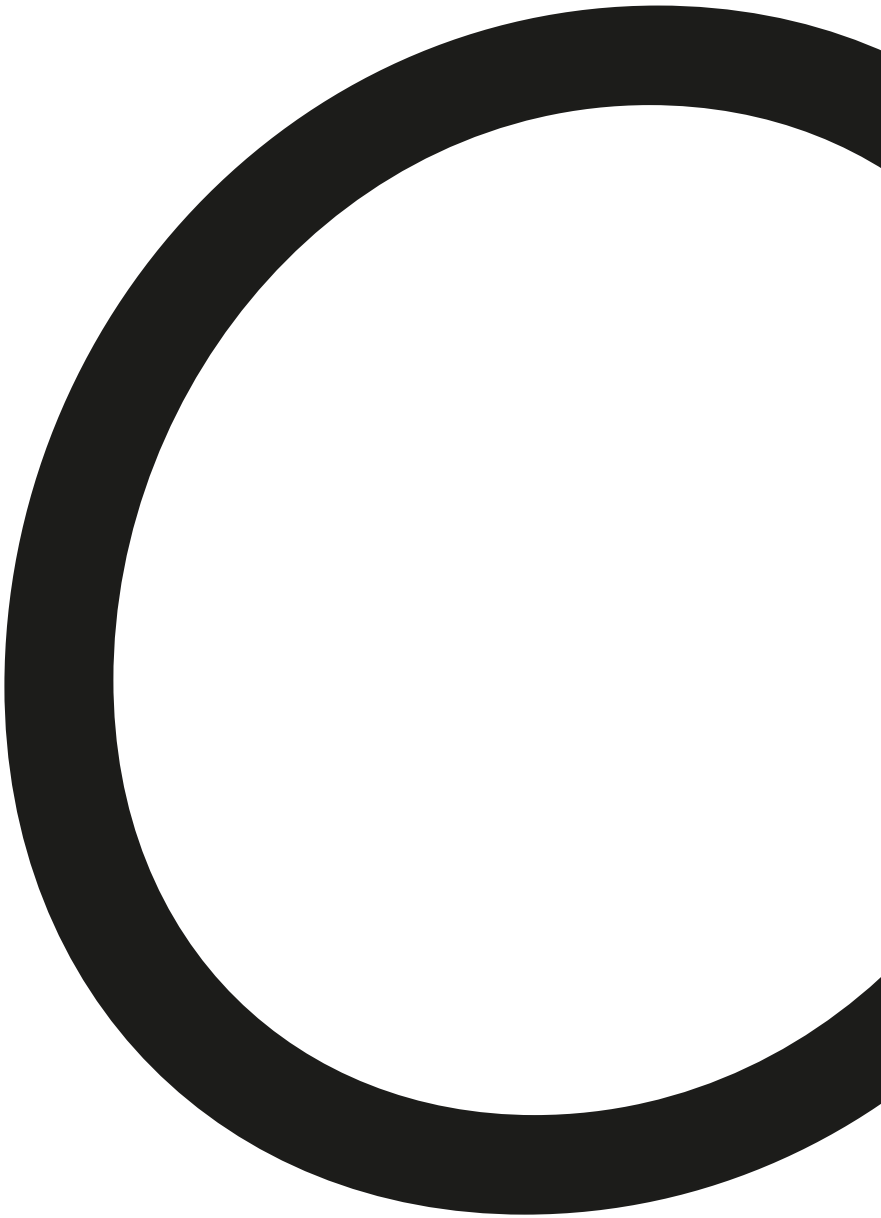

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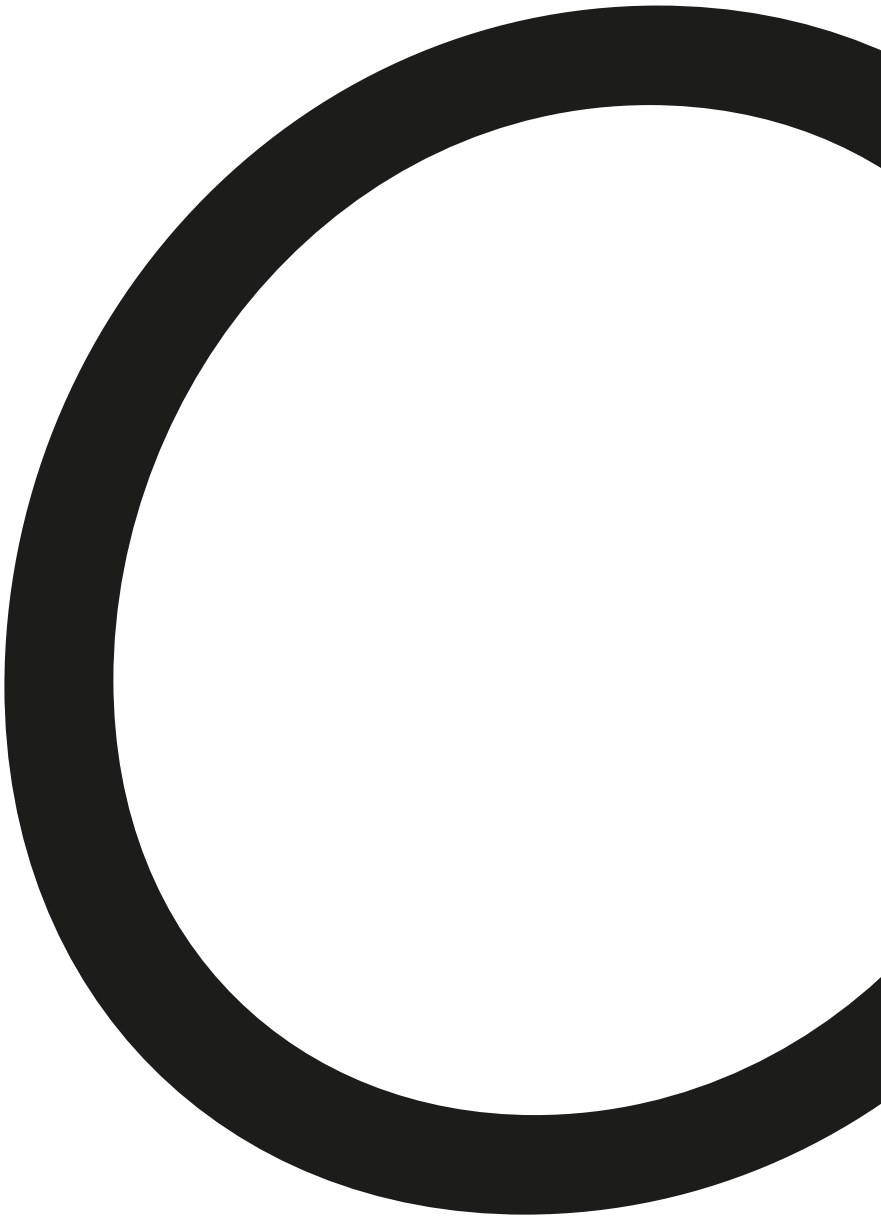

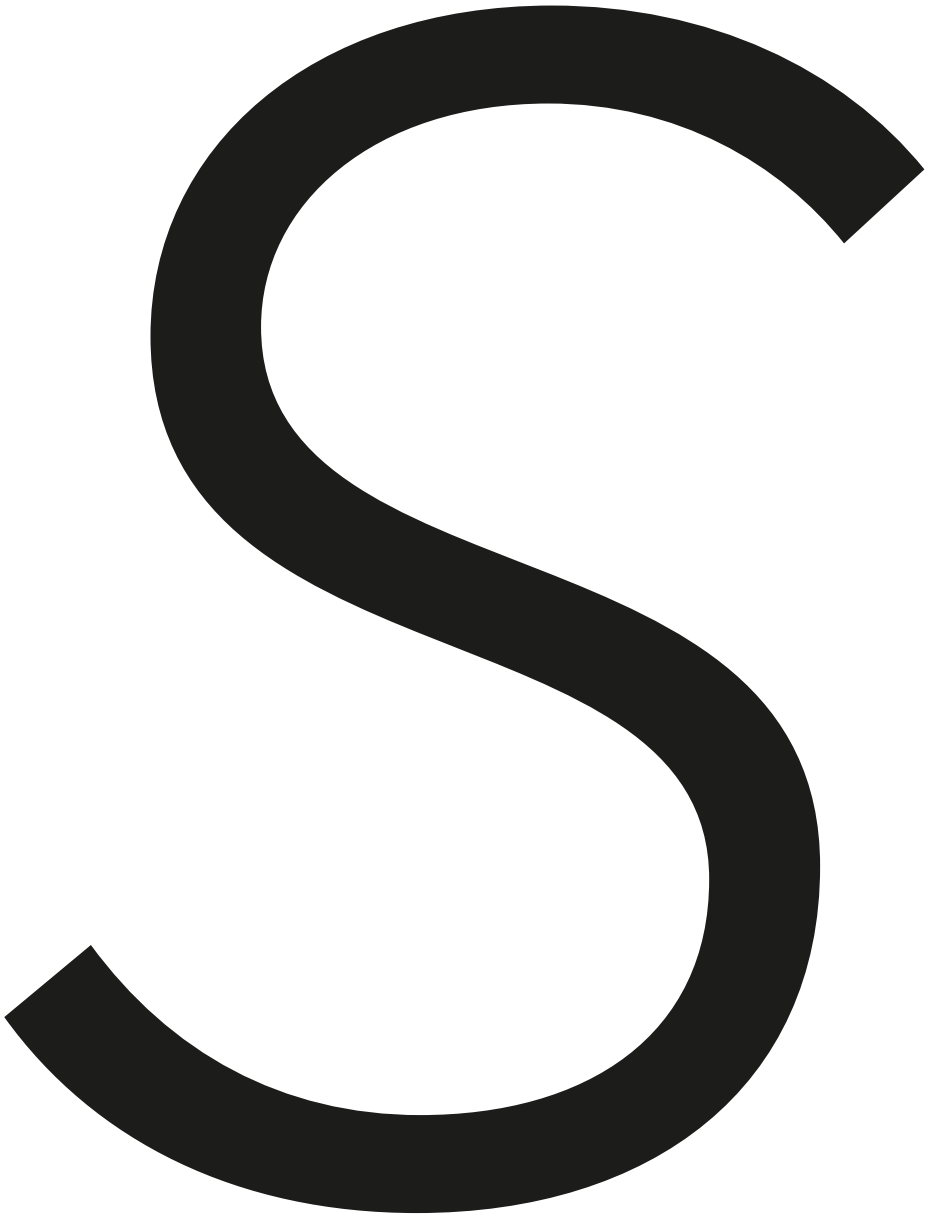

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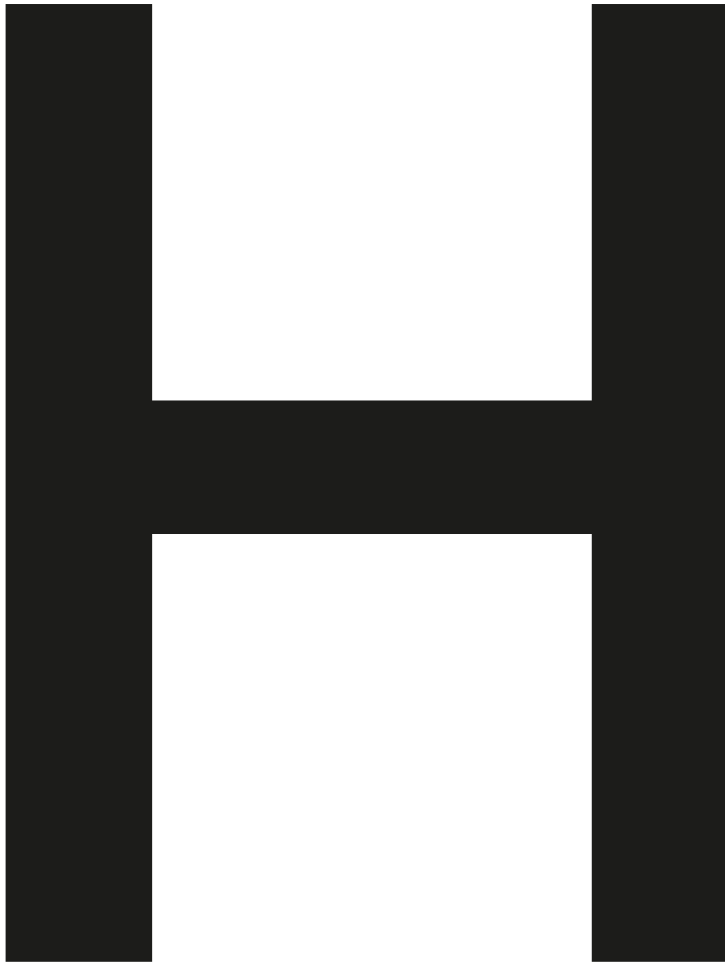

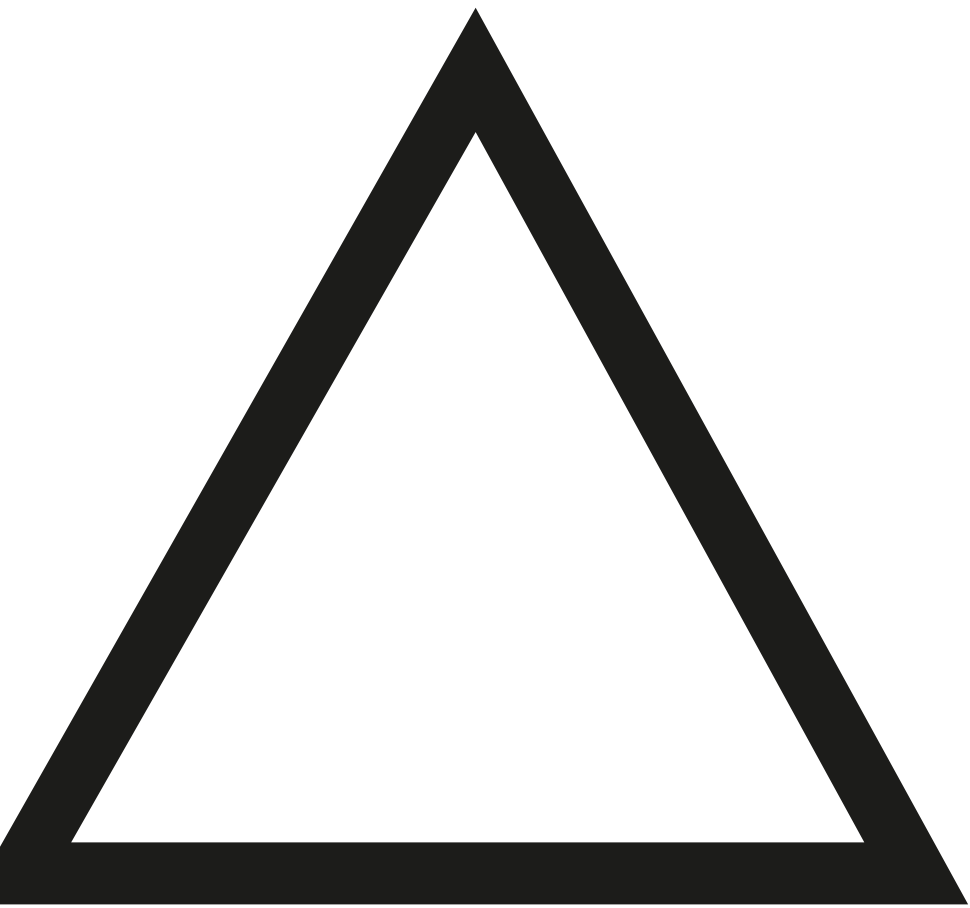

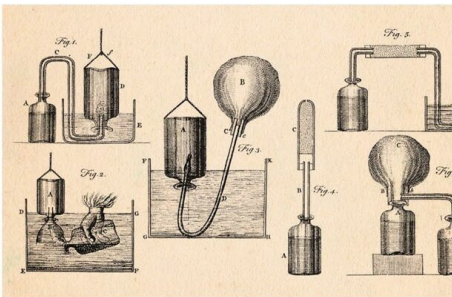
Fig. 1.
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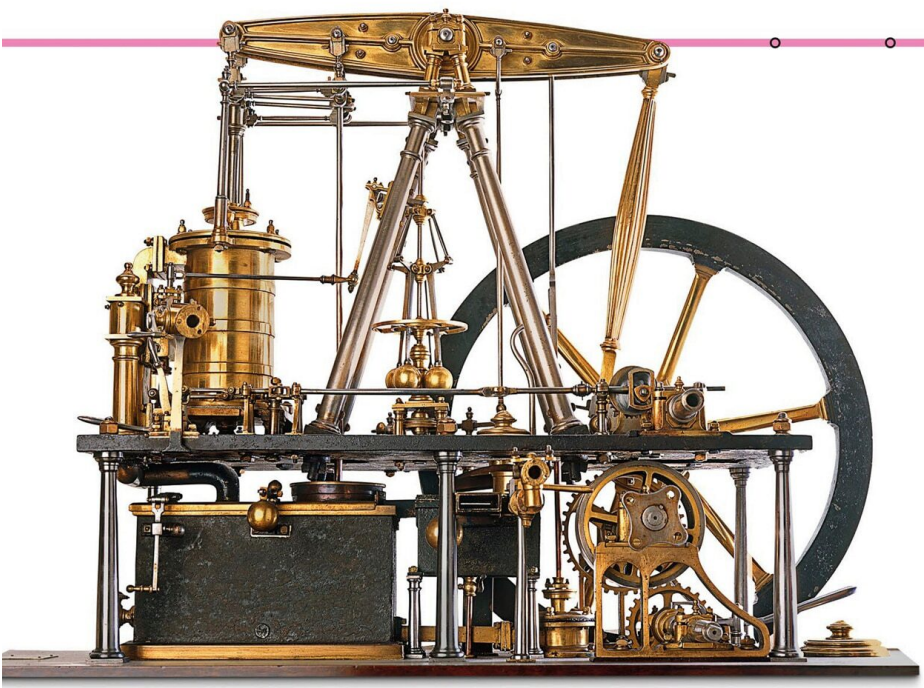

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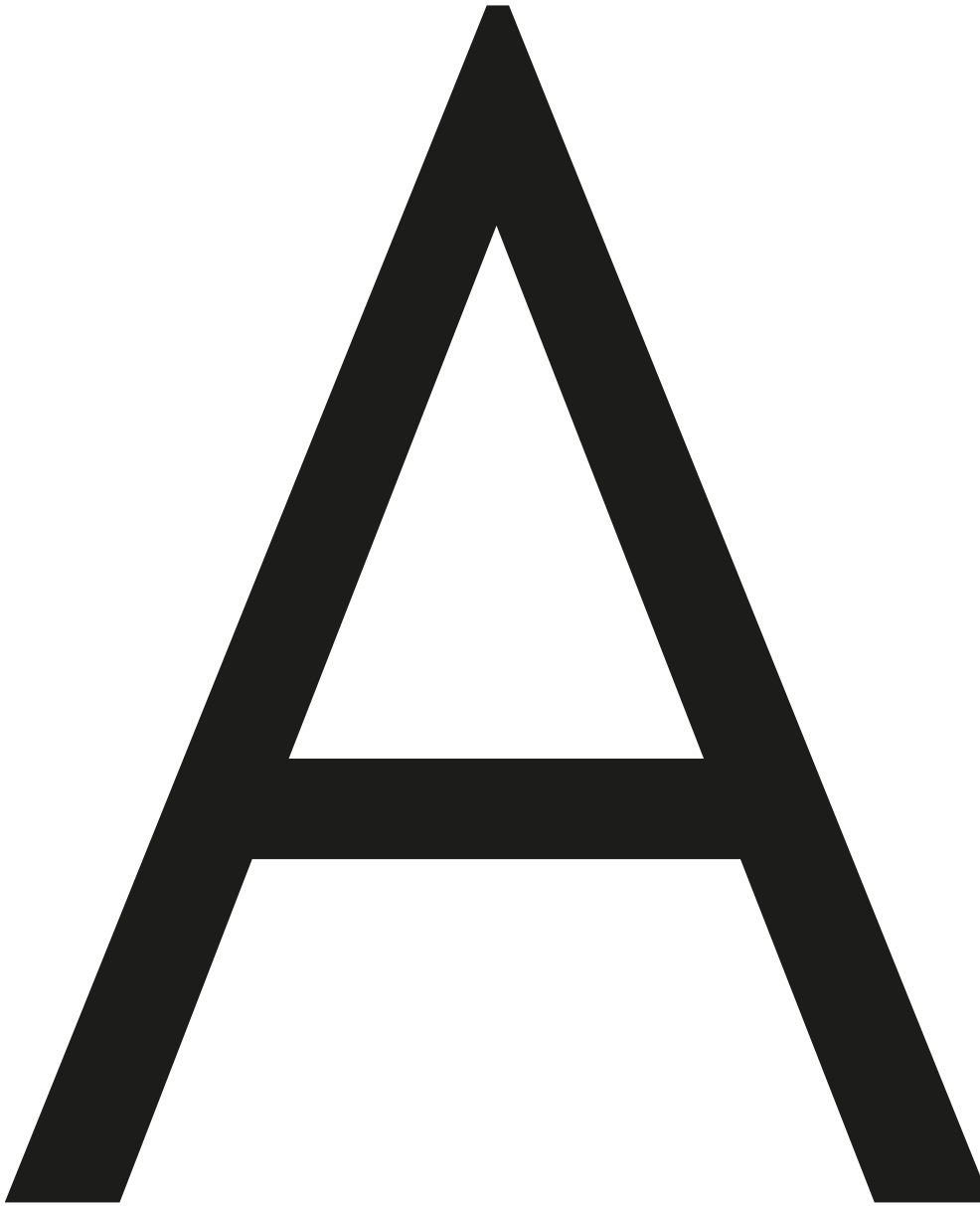

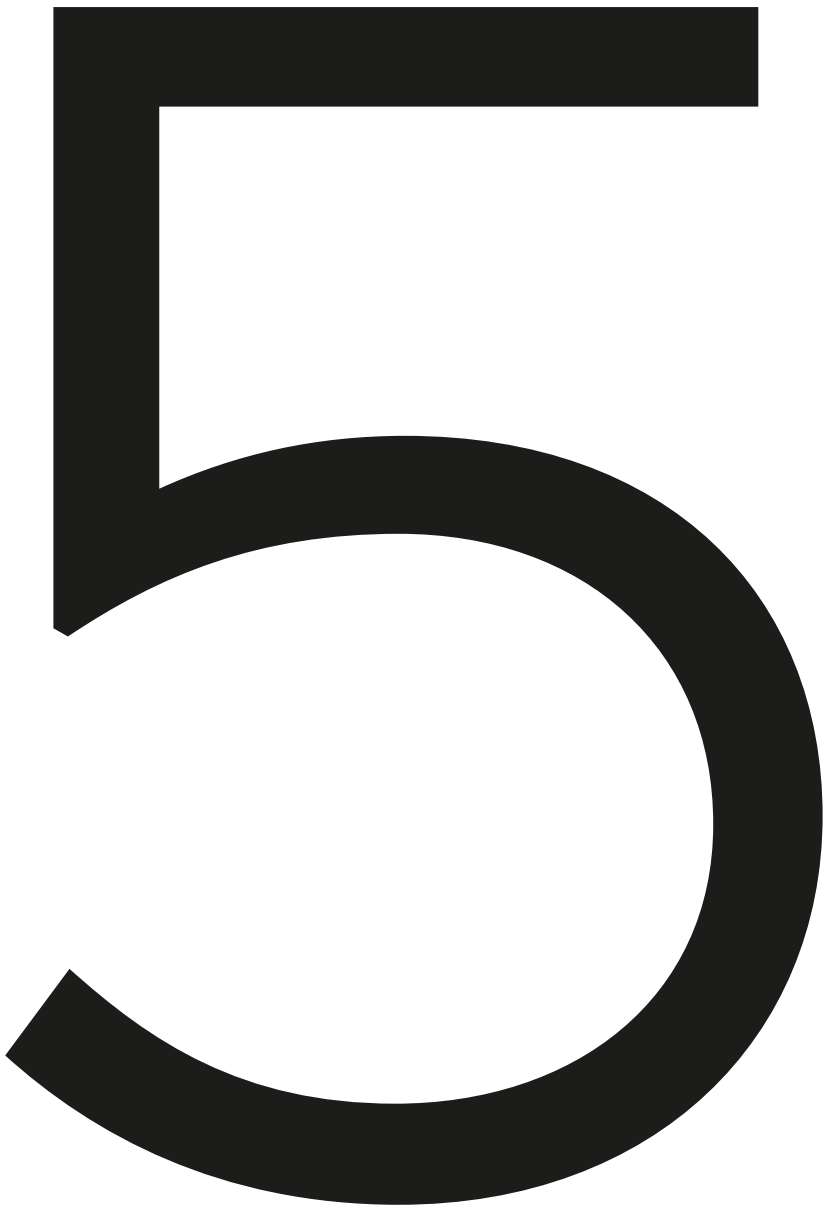

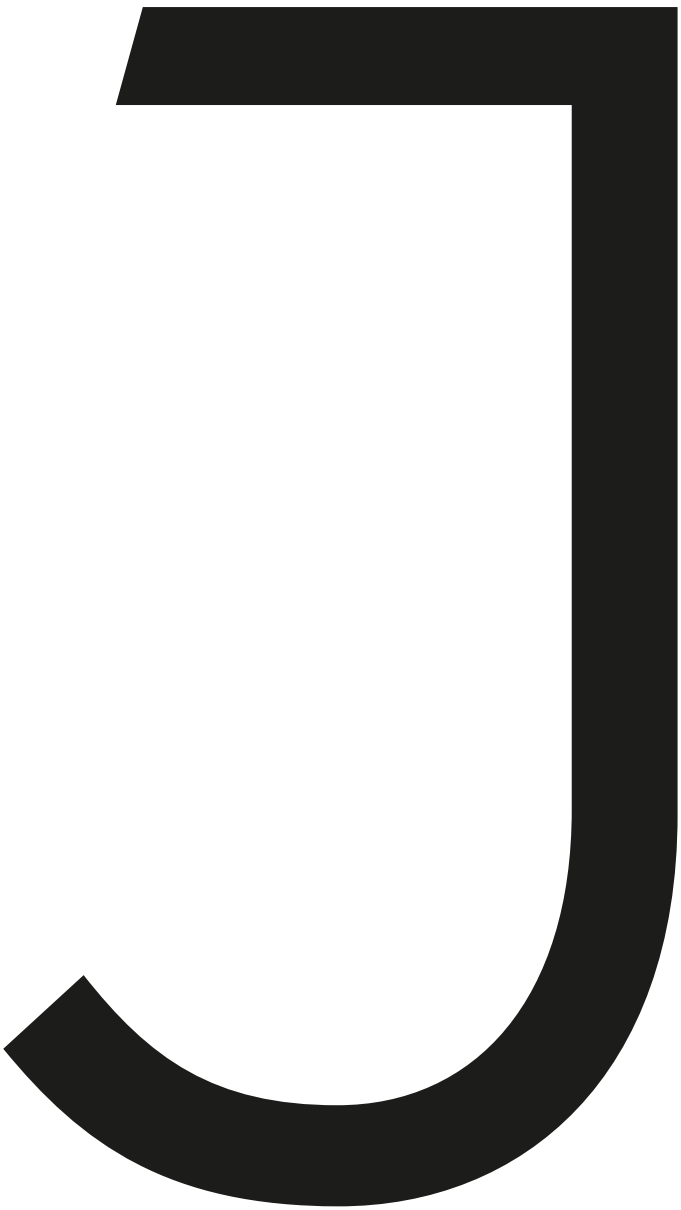

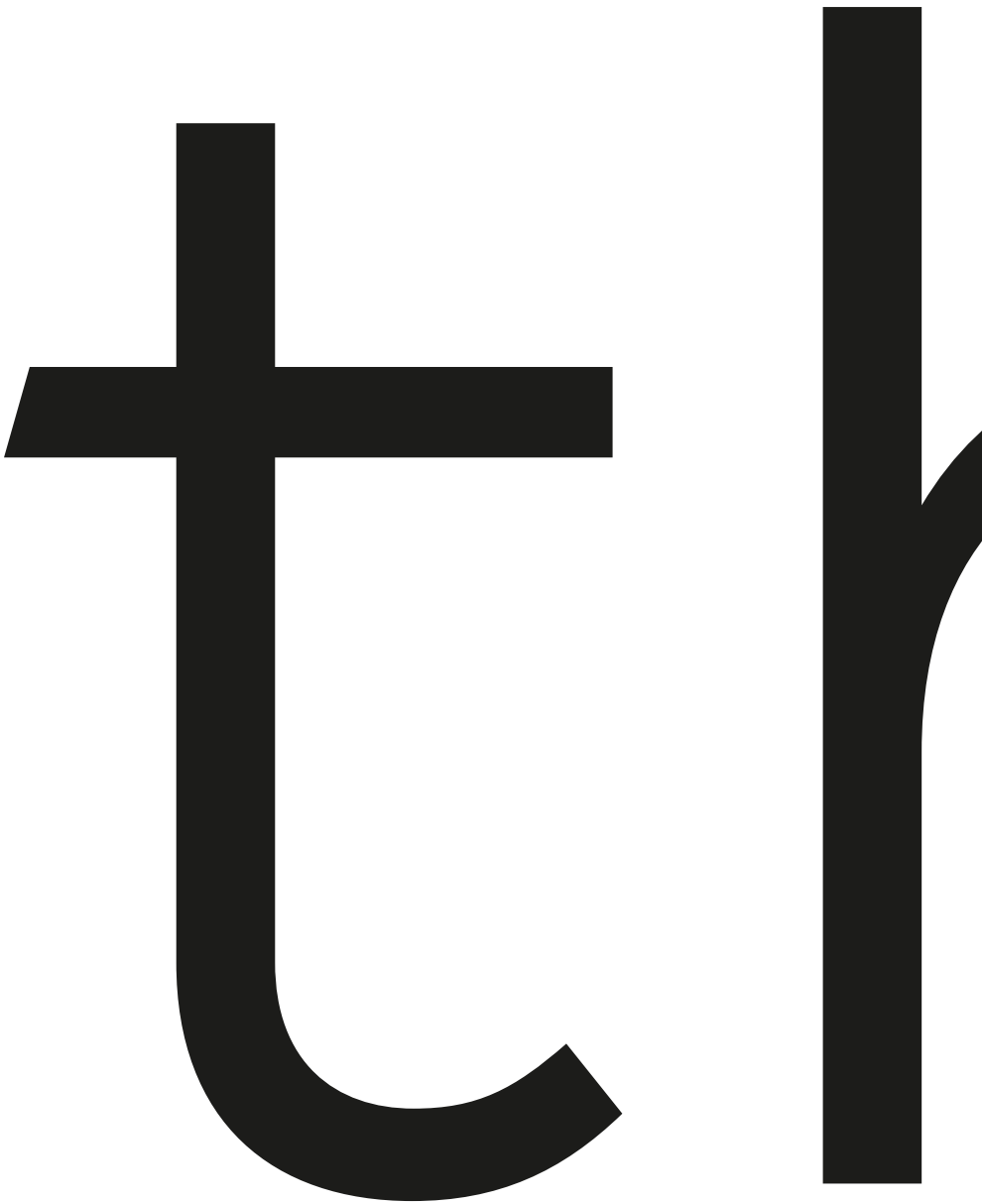

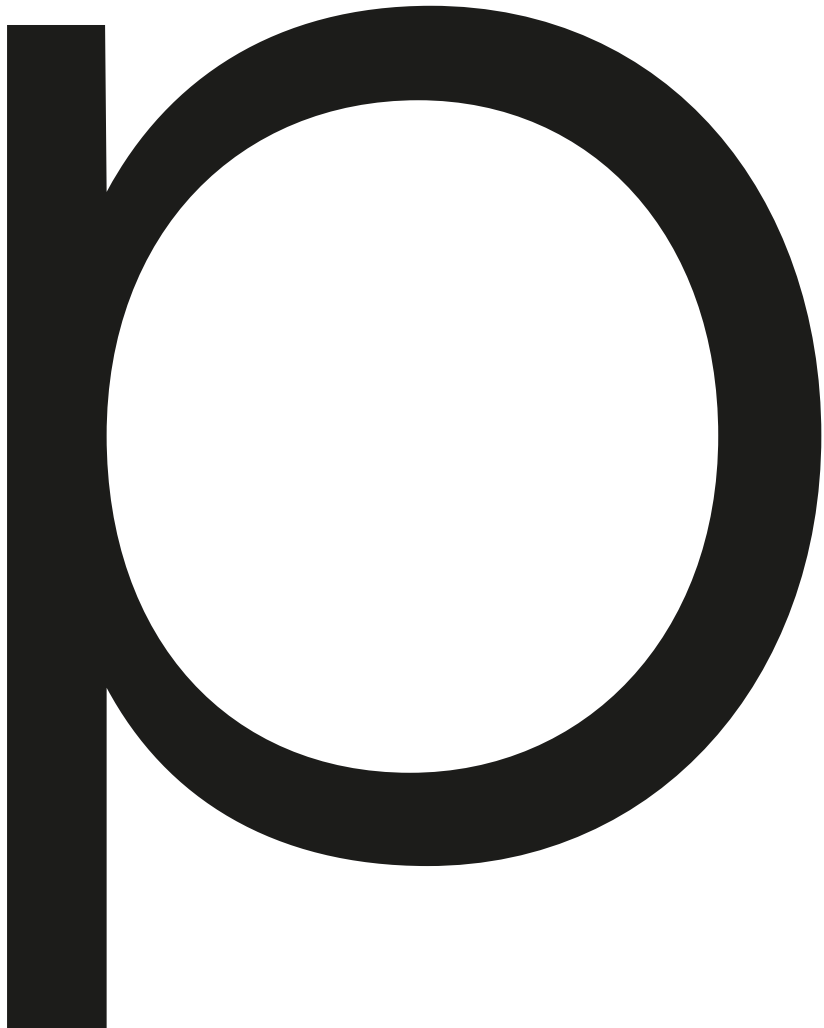

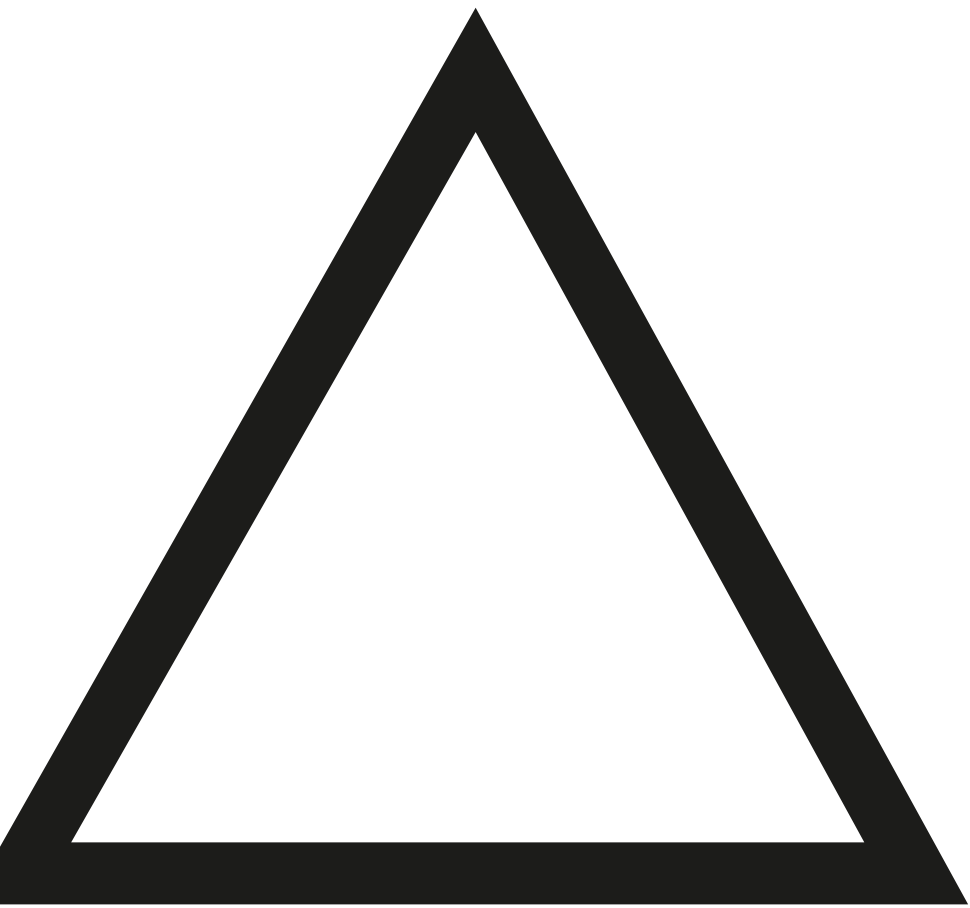

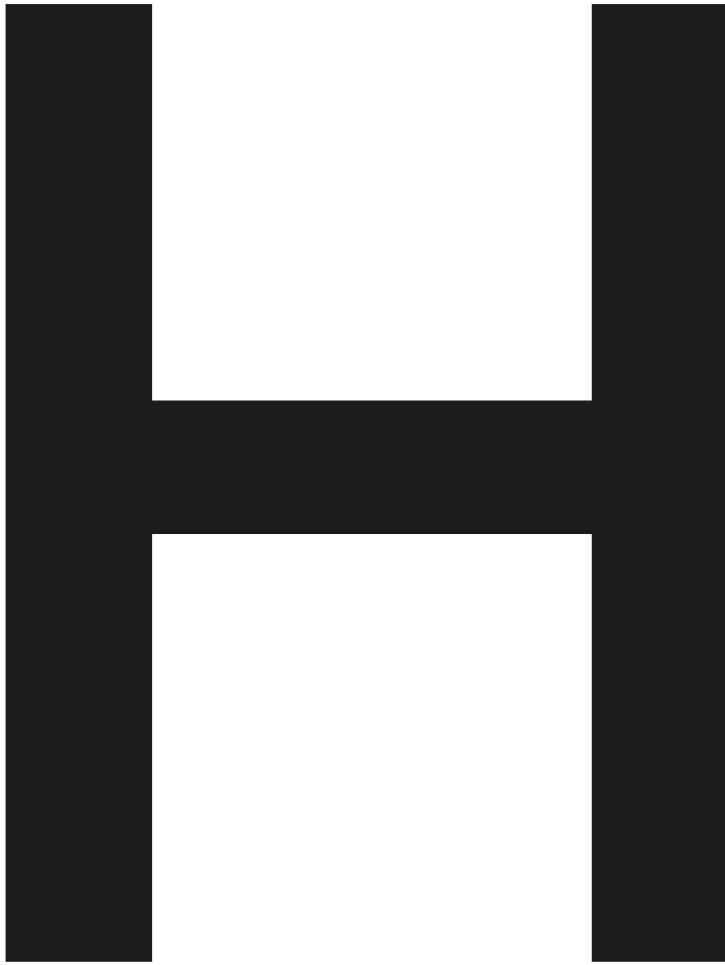

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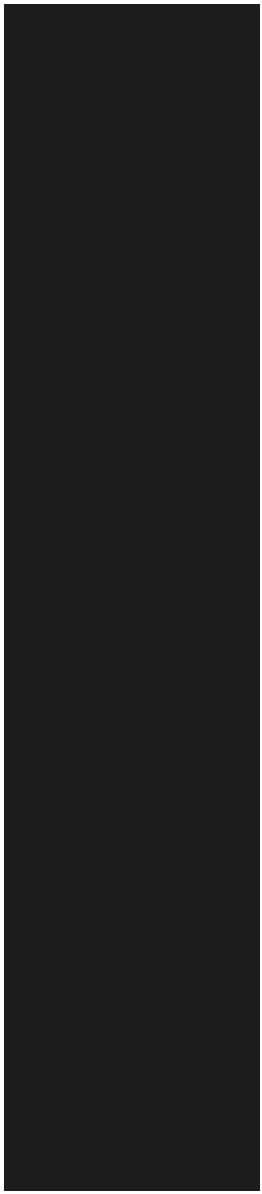

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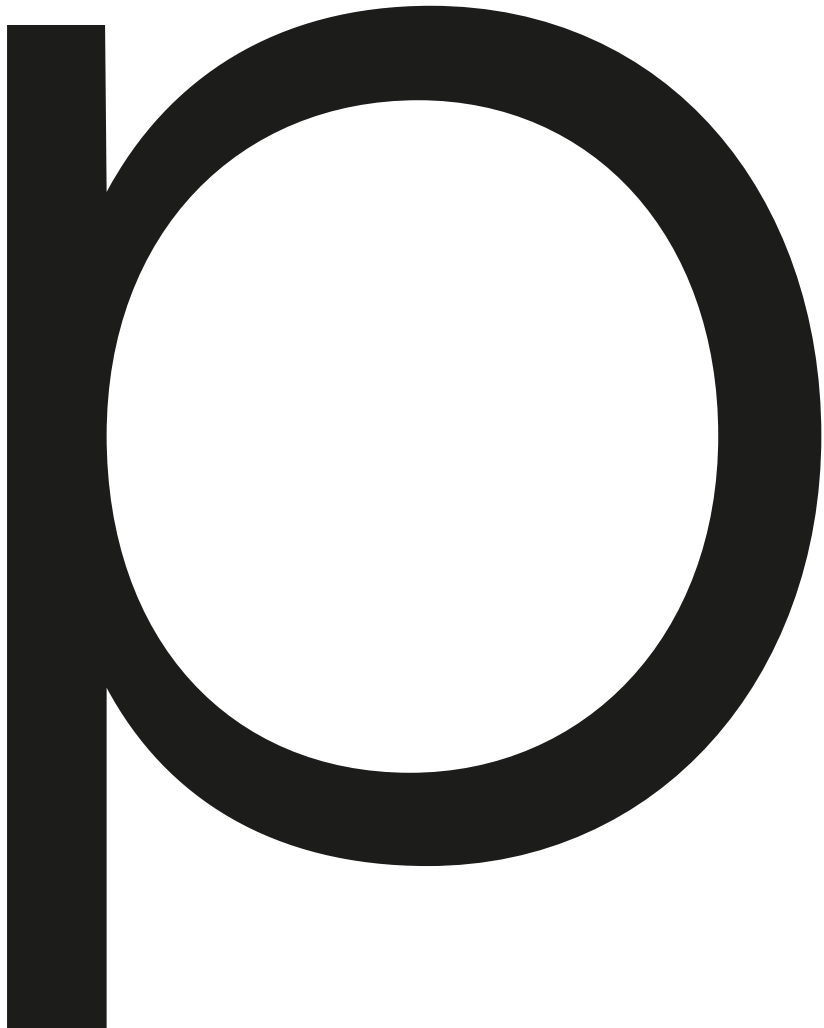

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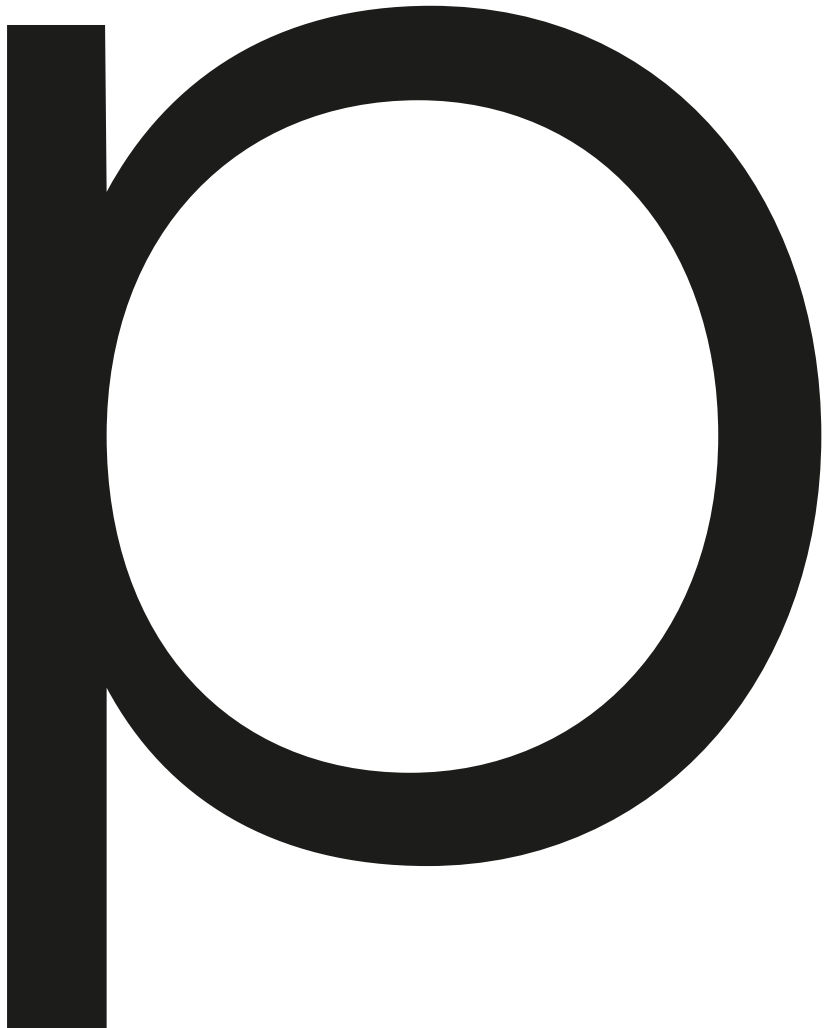

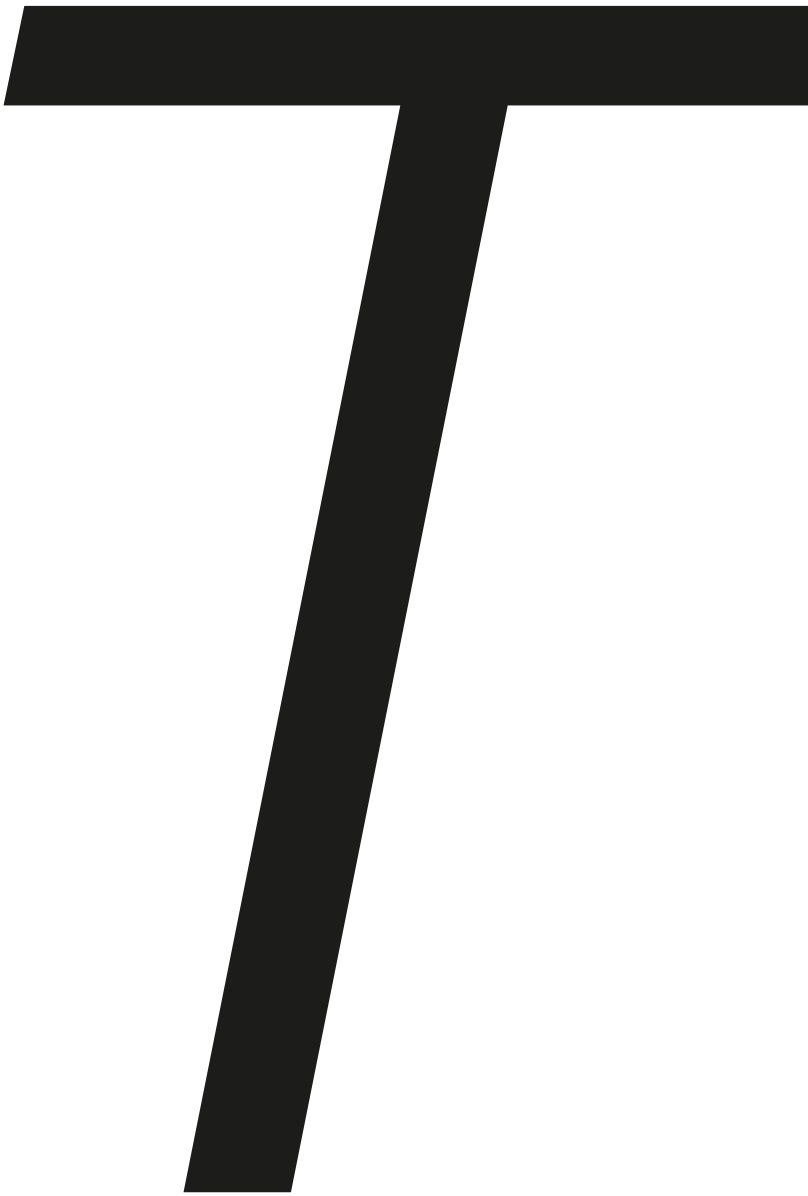

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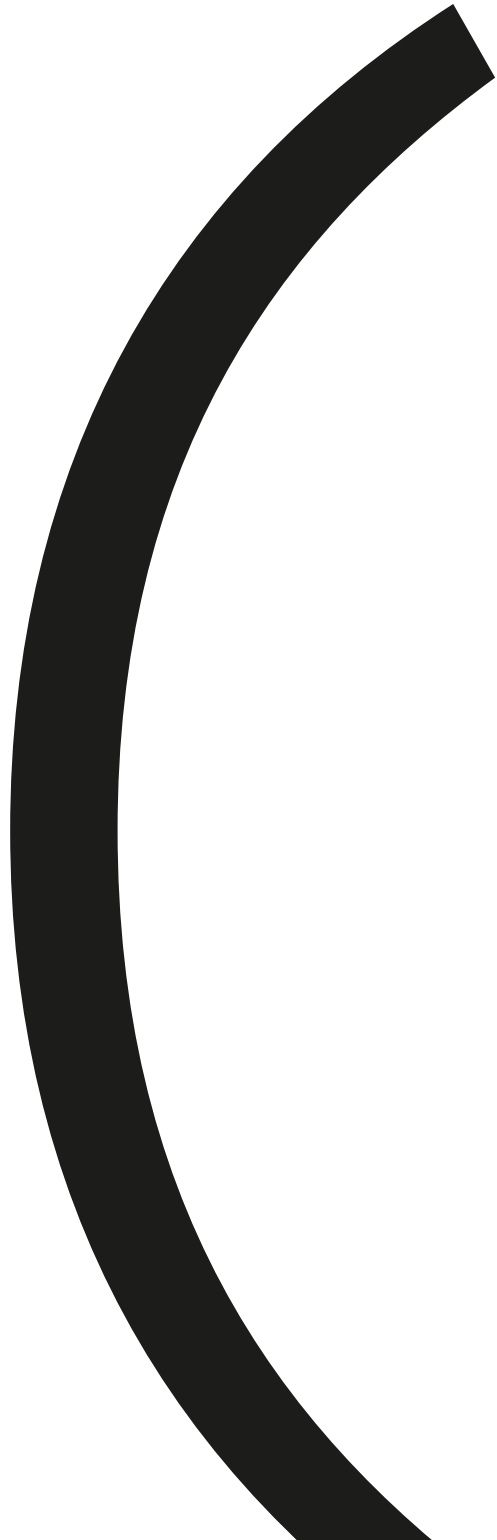

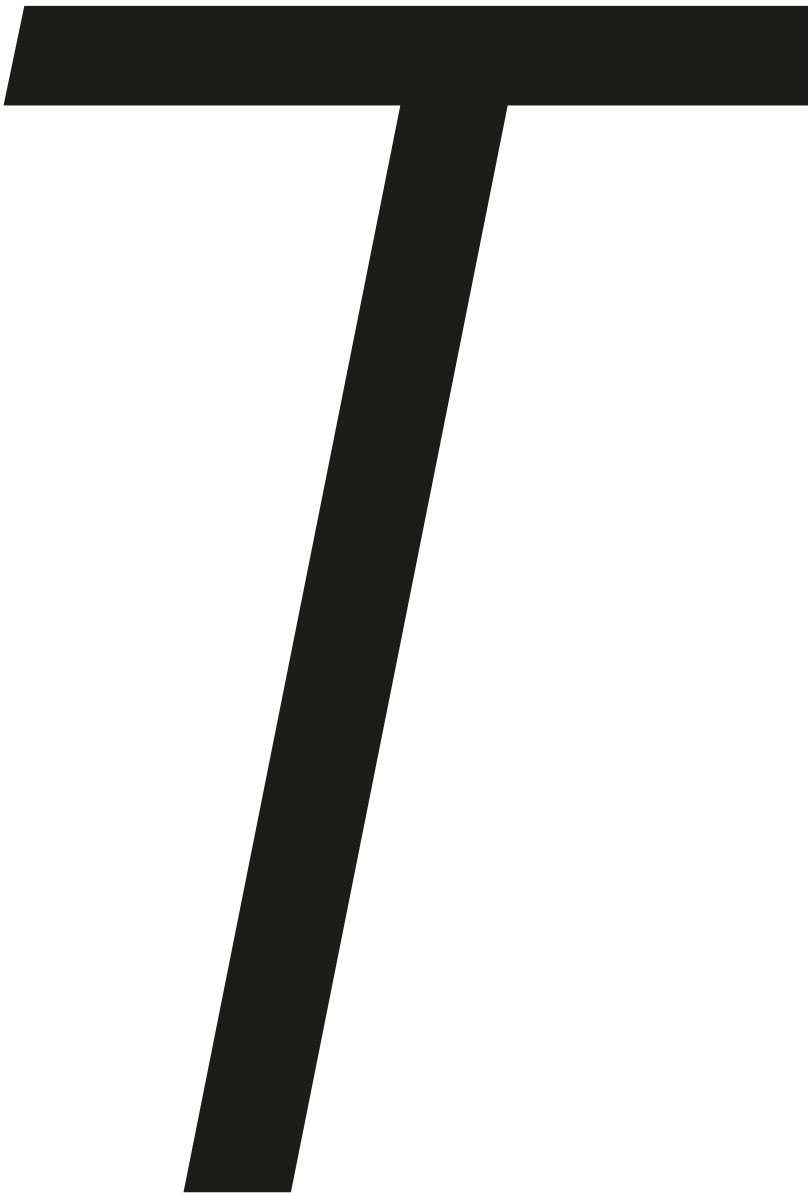

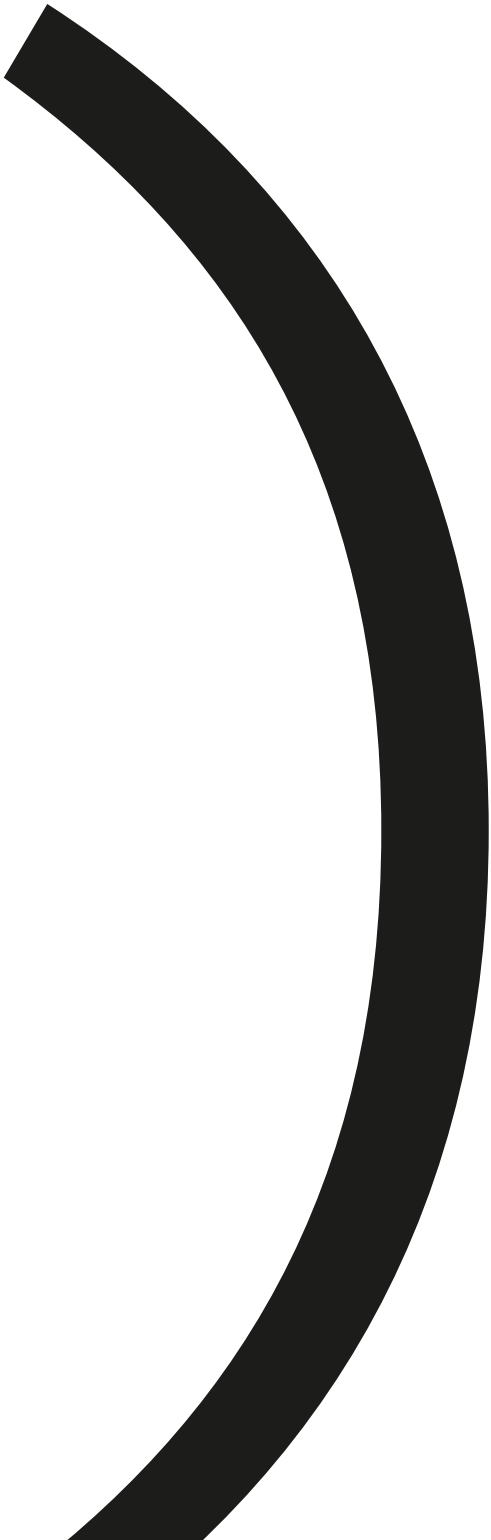

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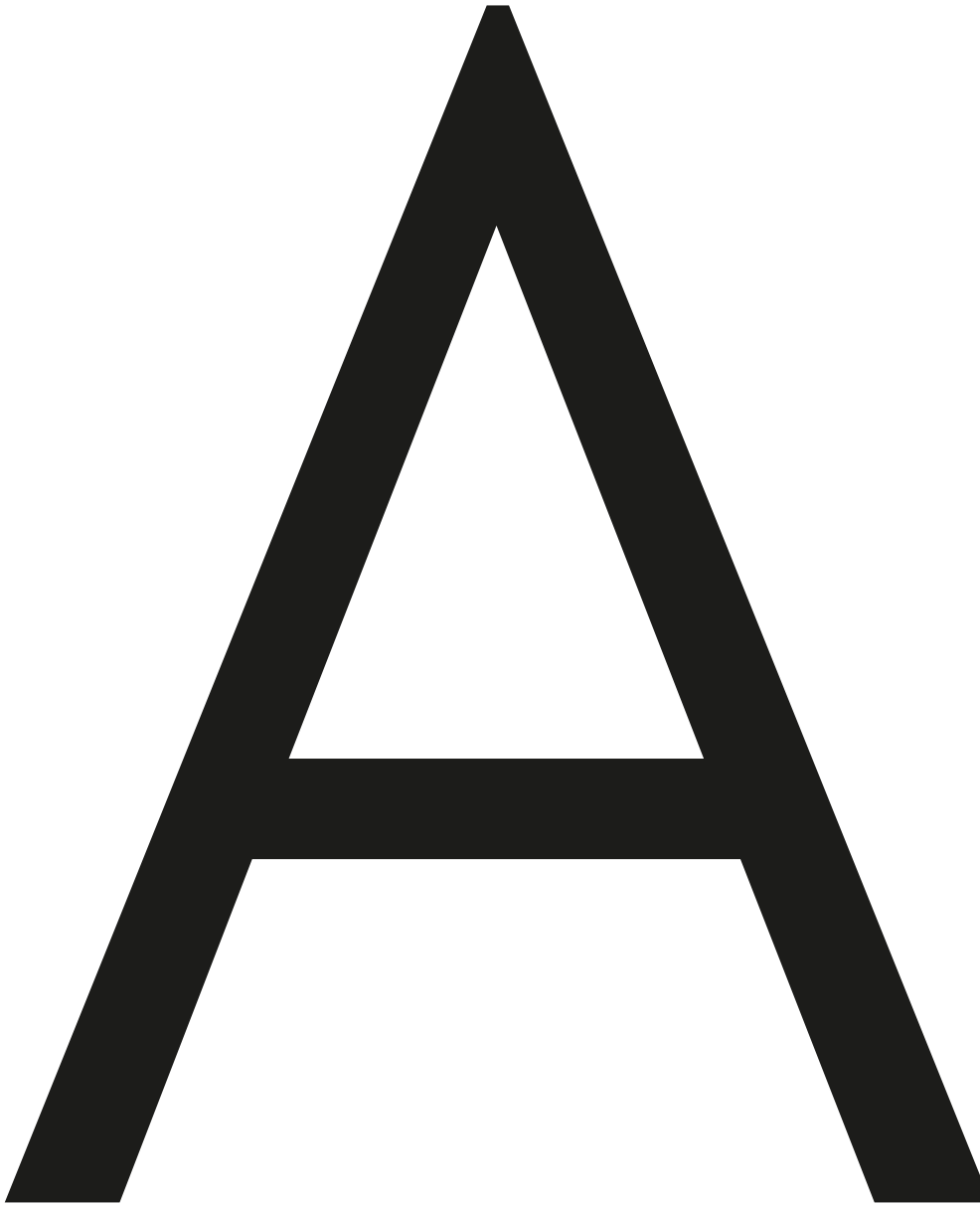

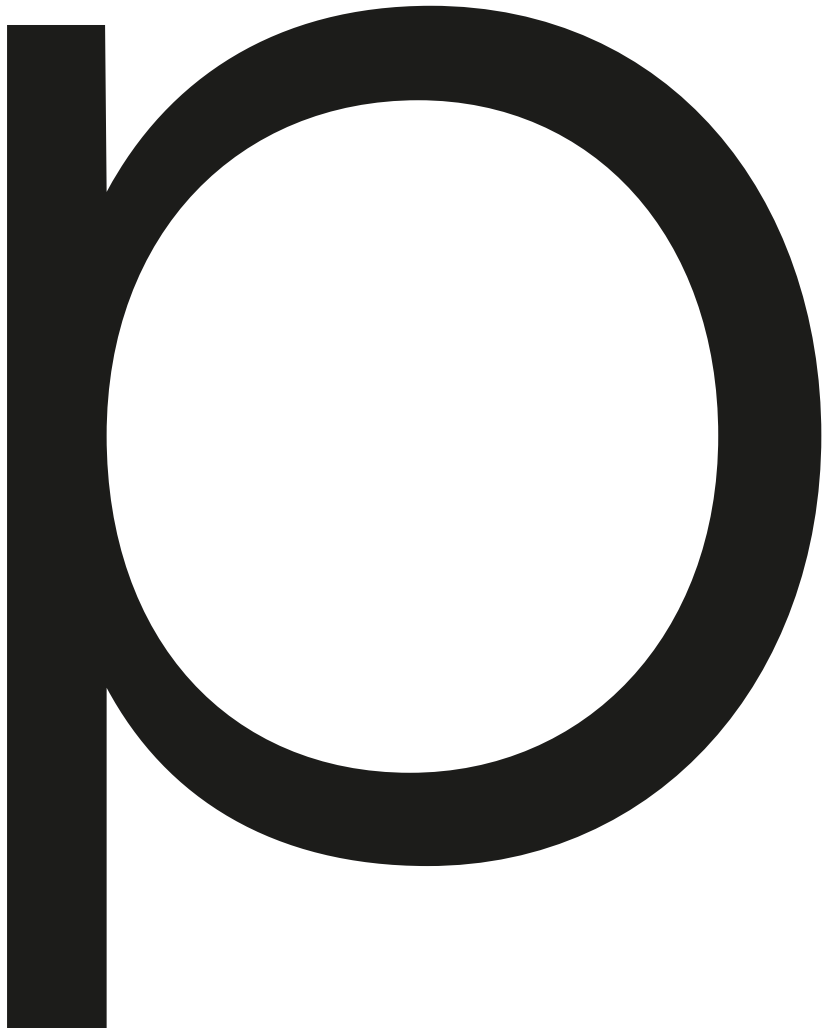

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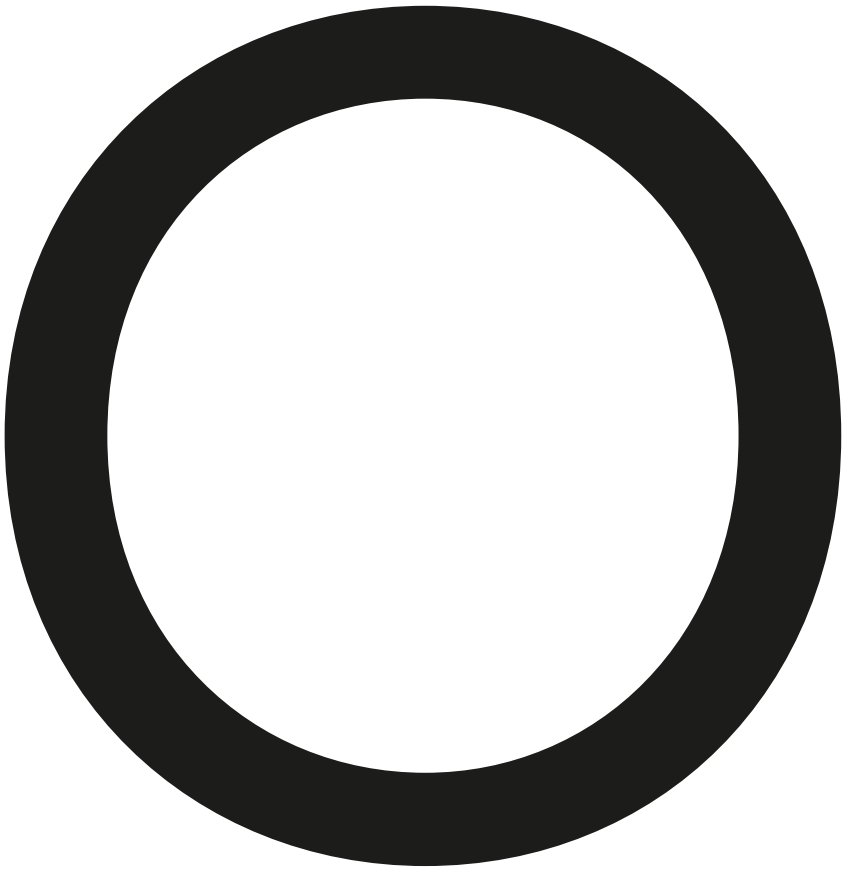

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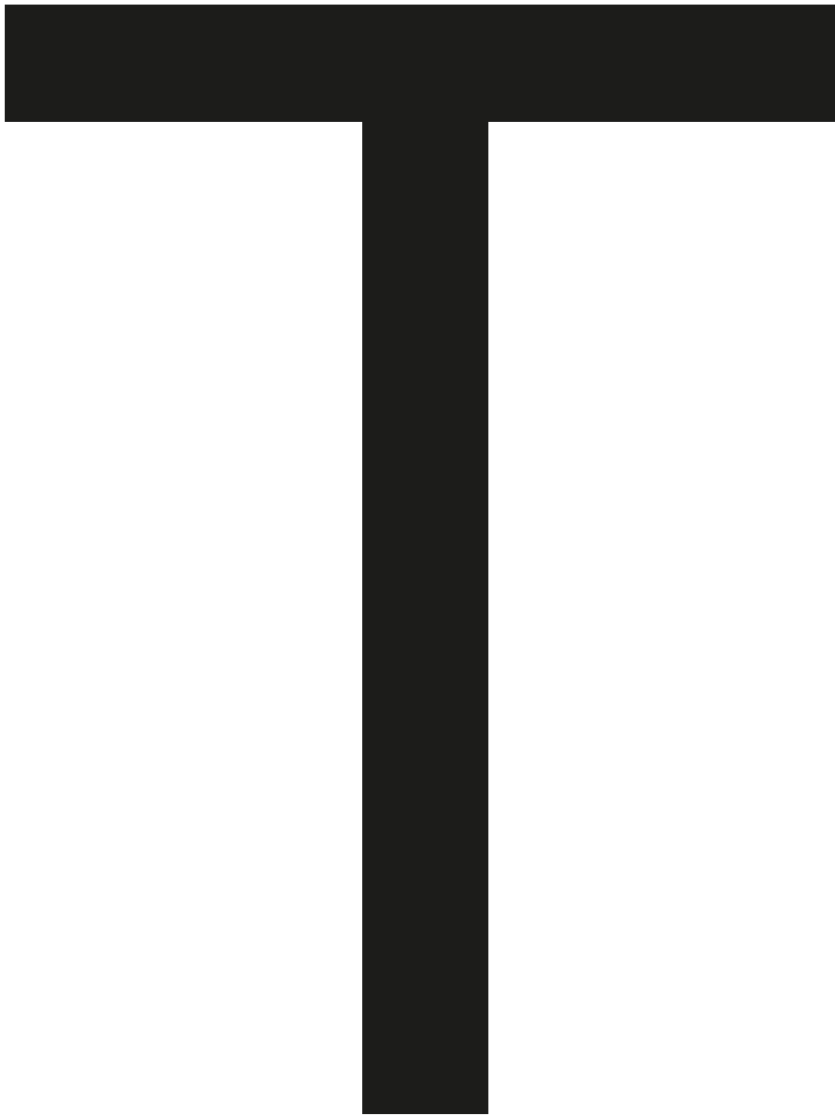

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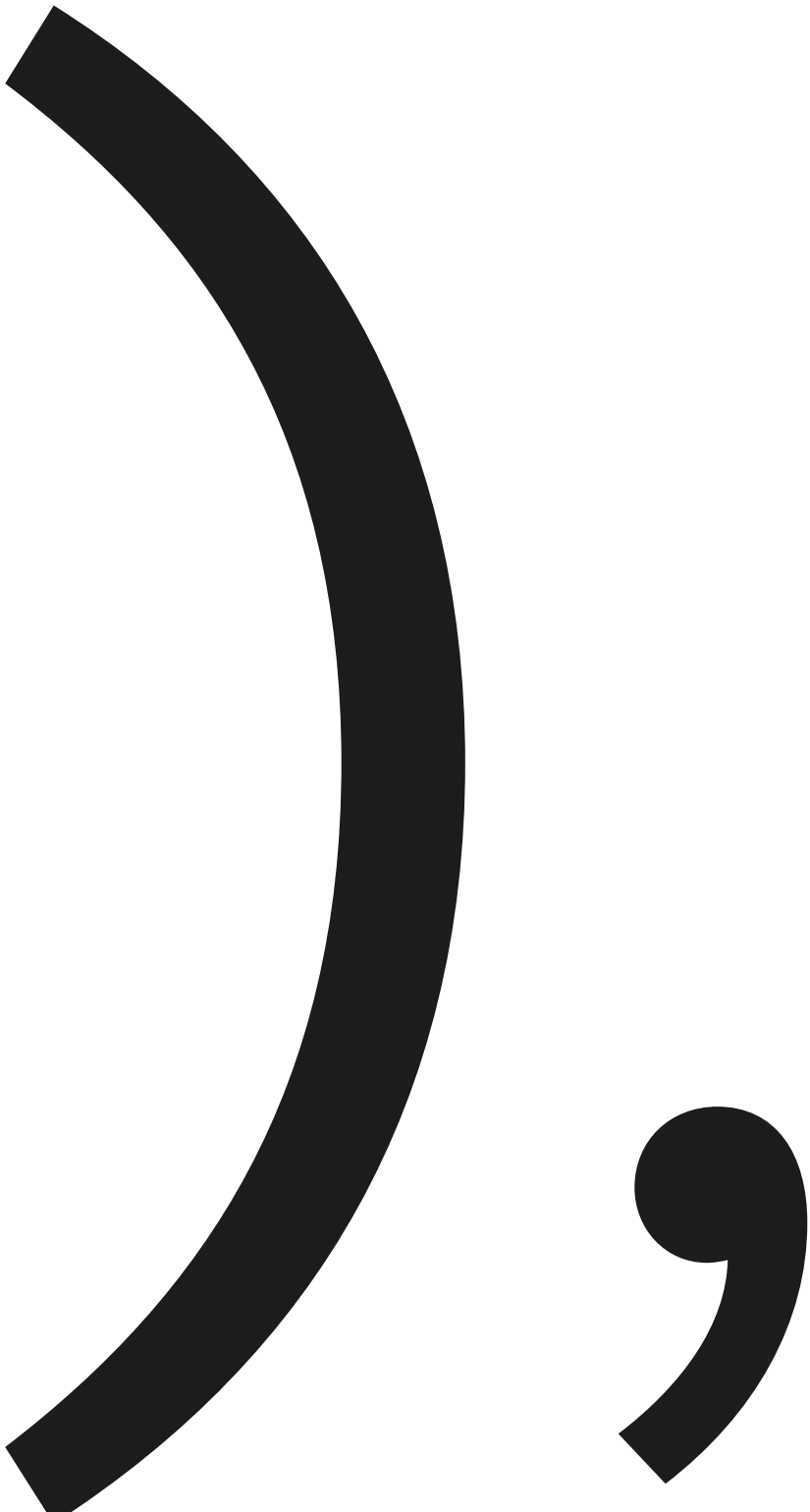

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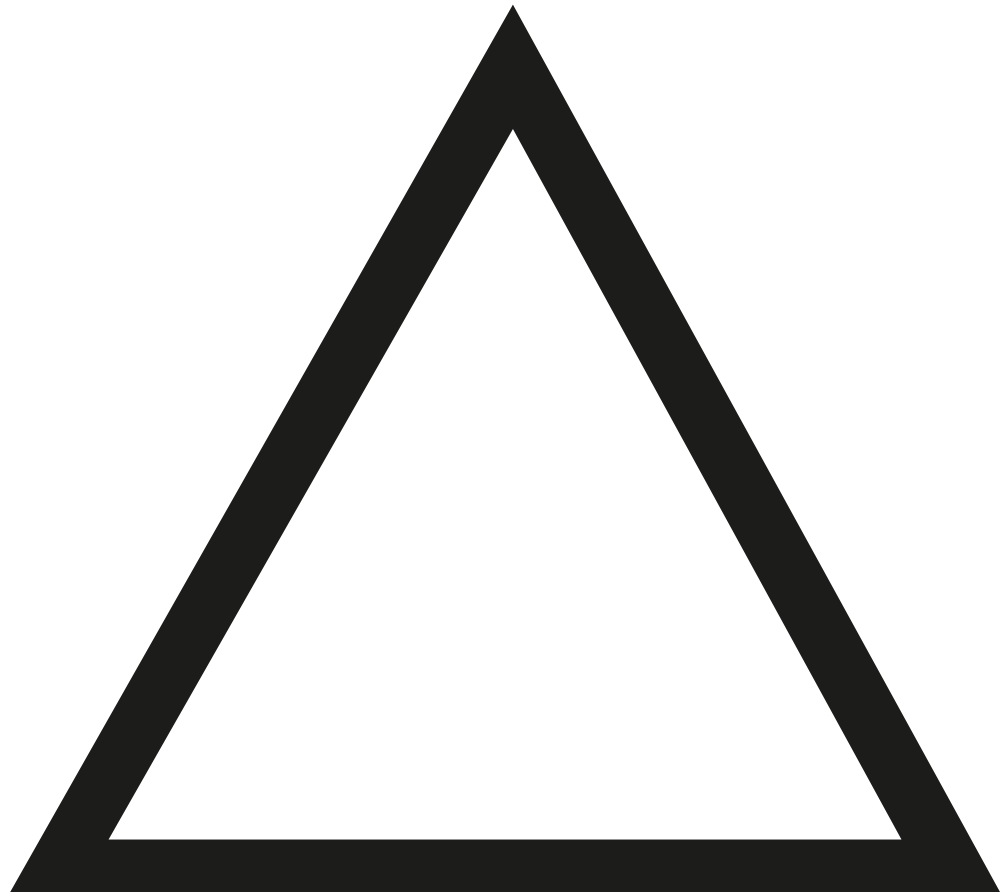

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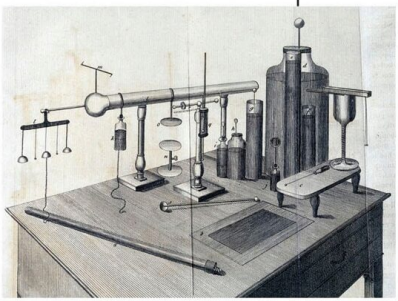

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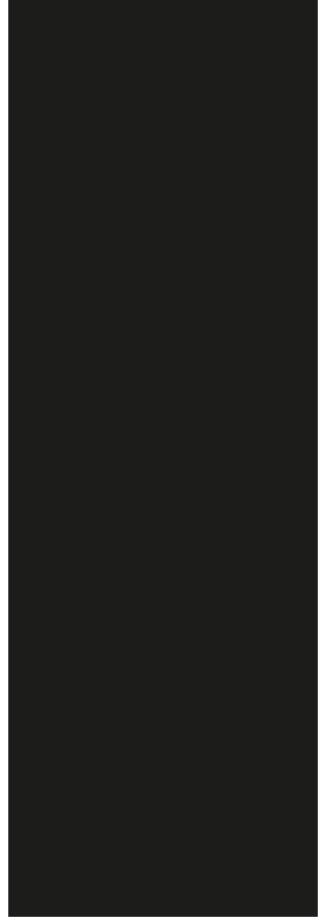

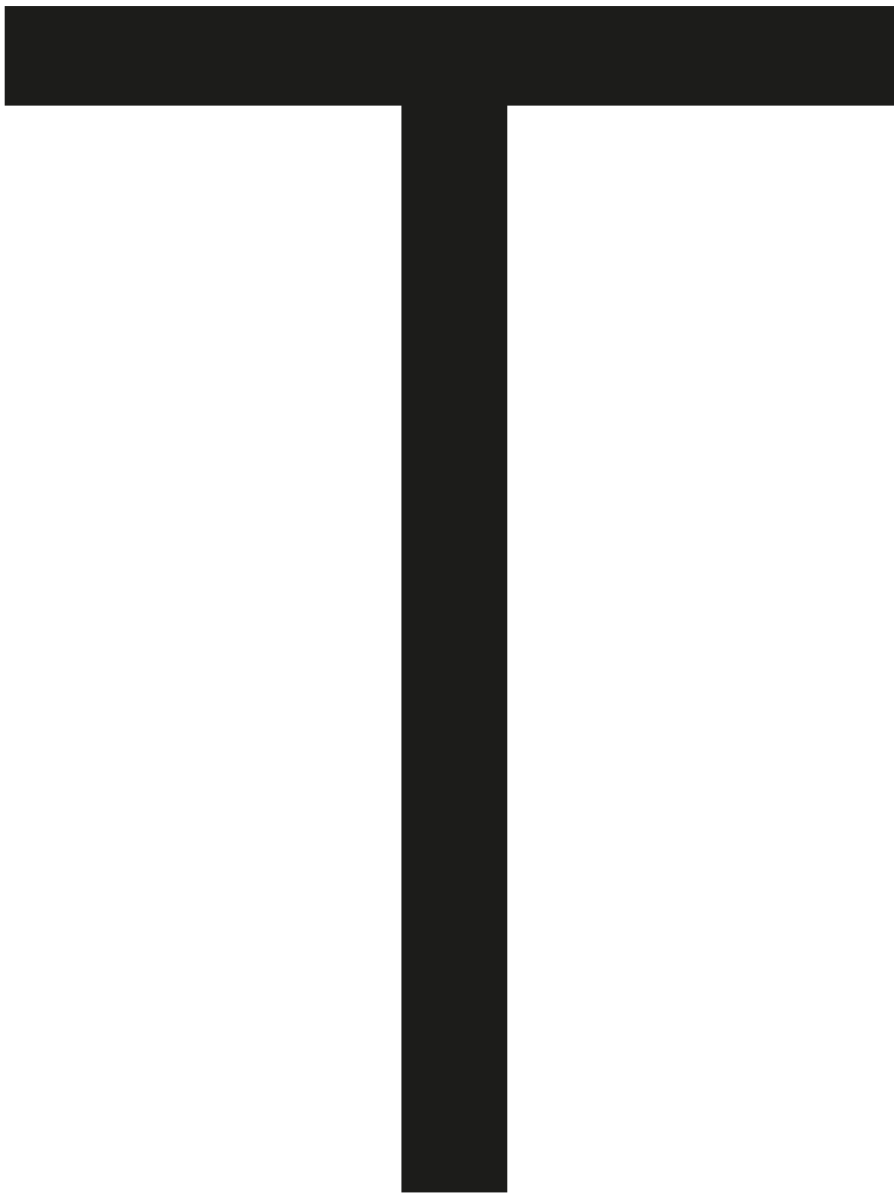

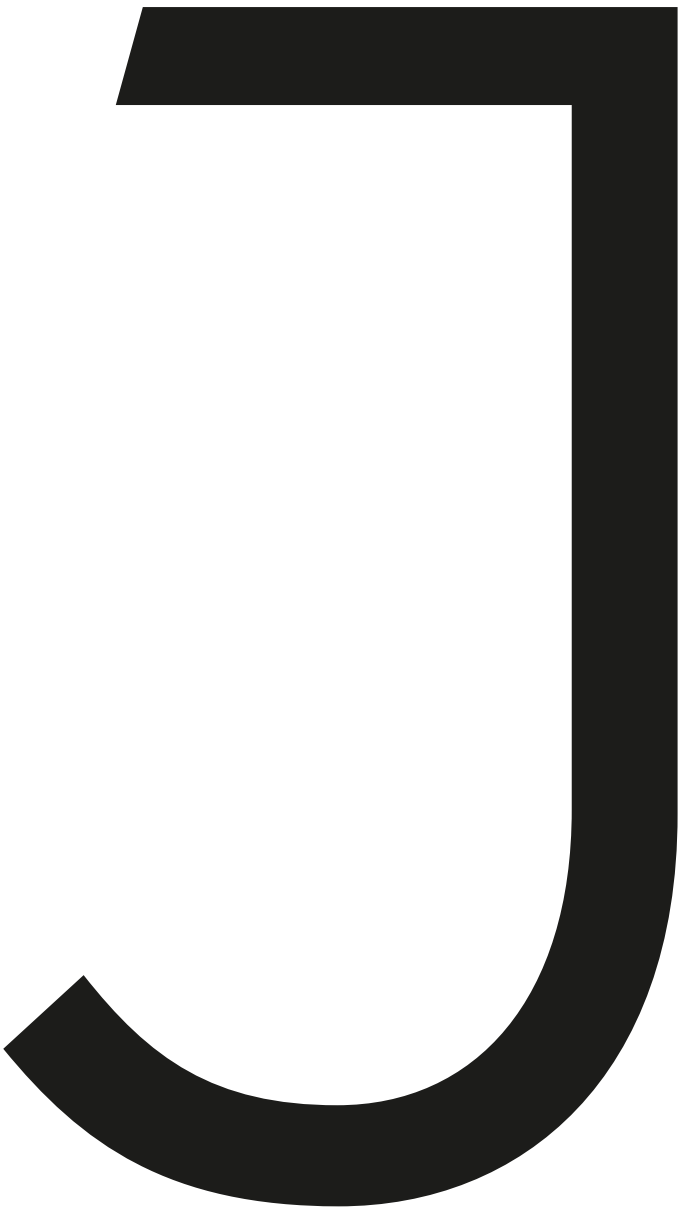

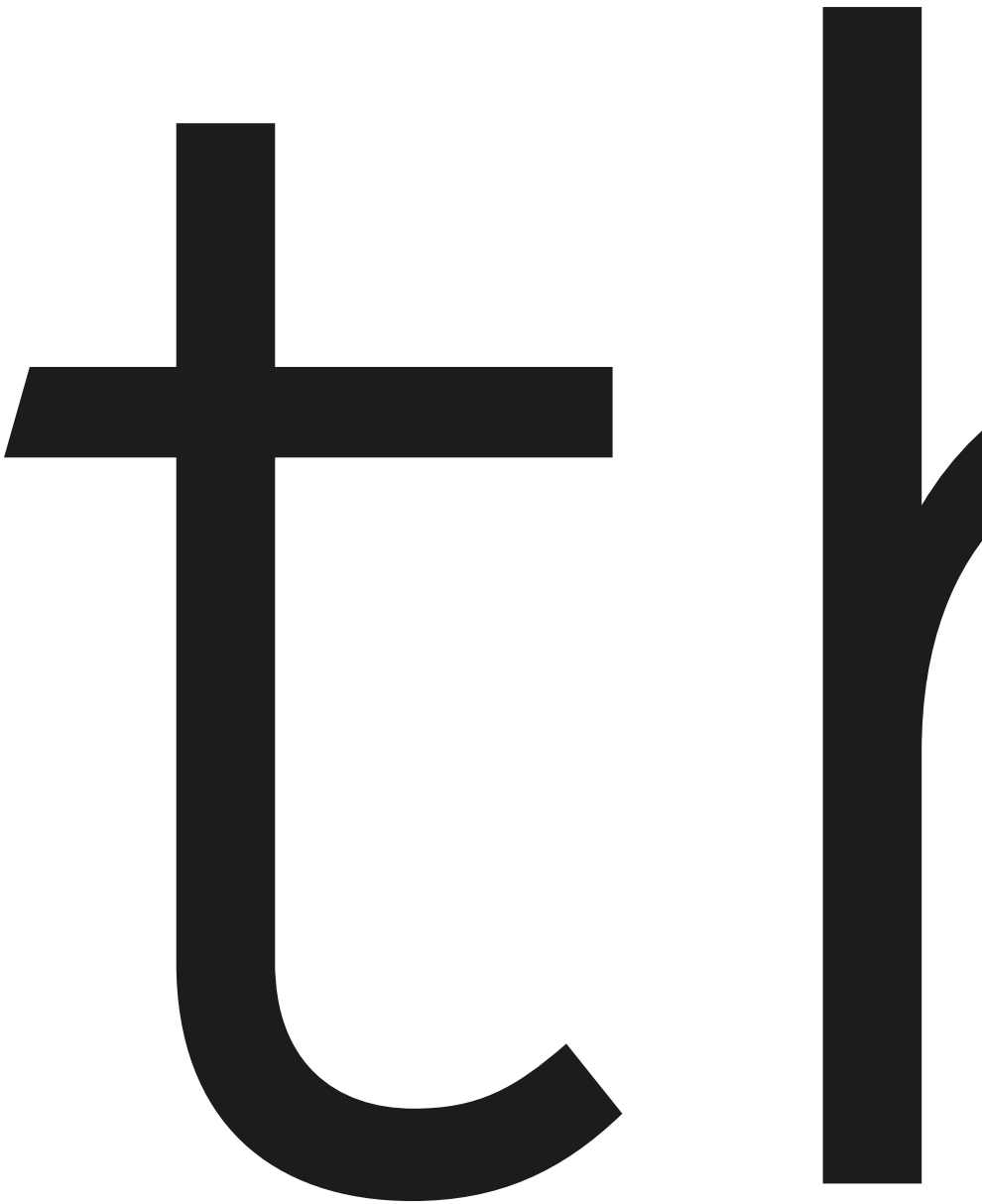

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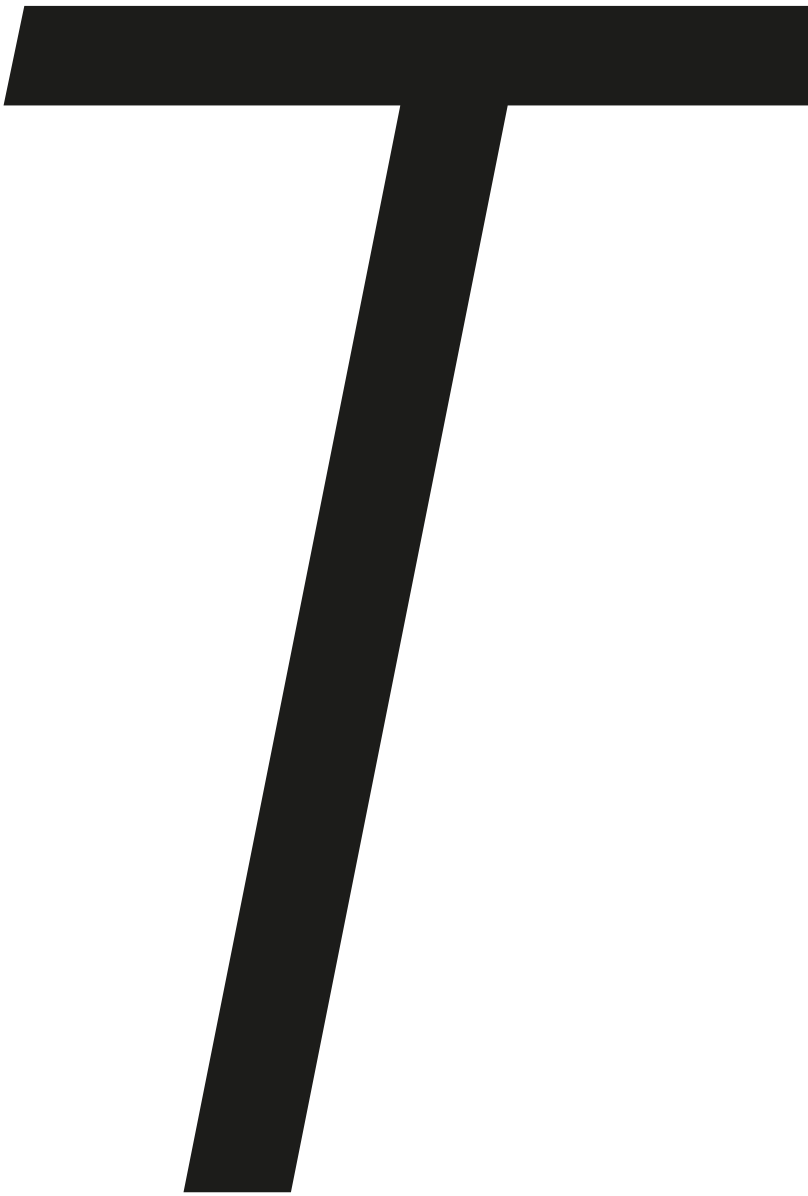

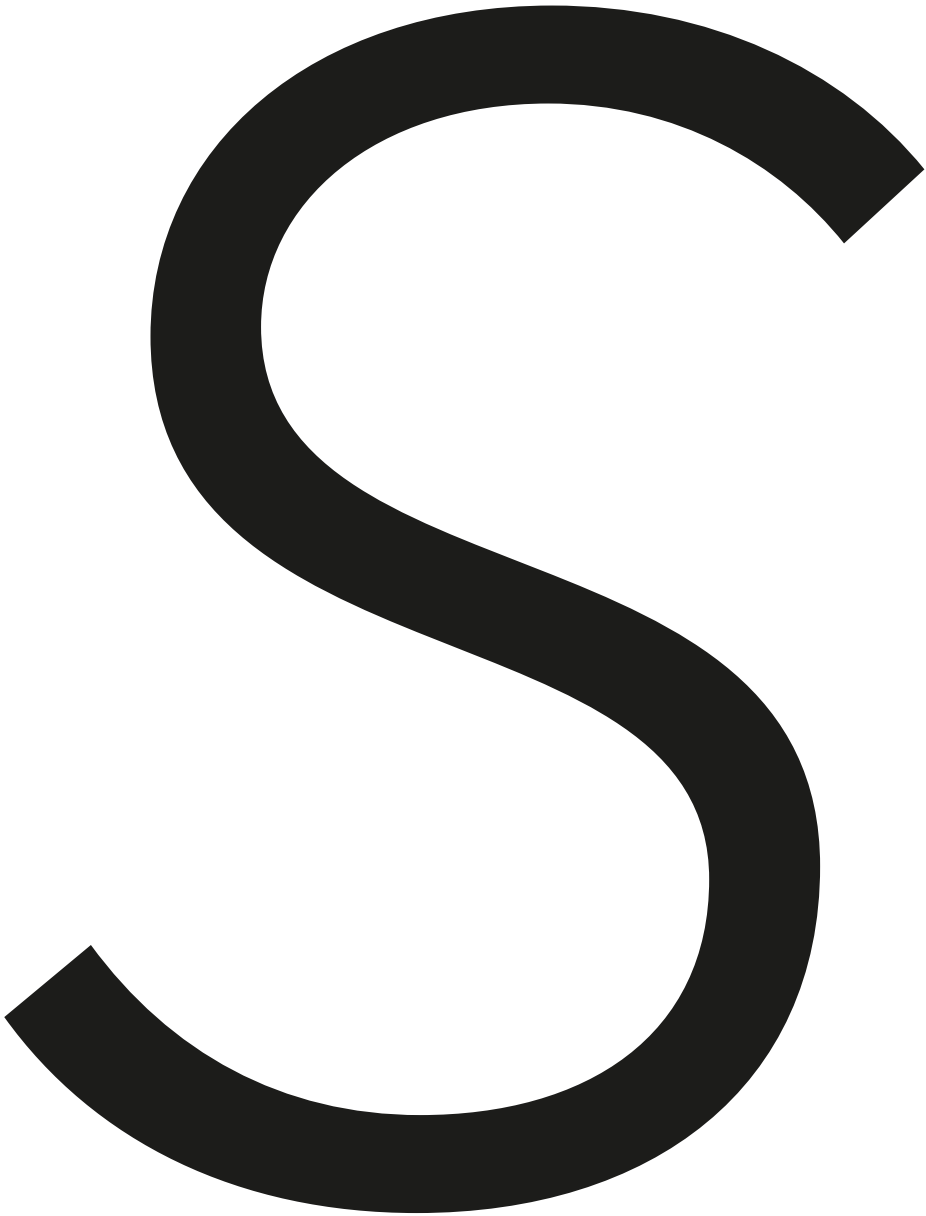

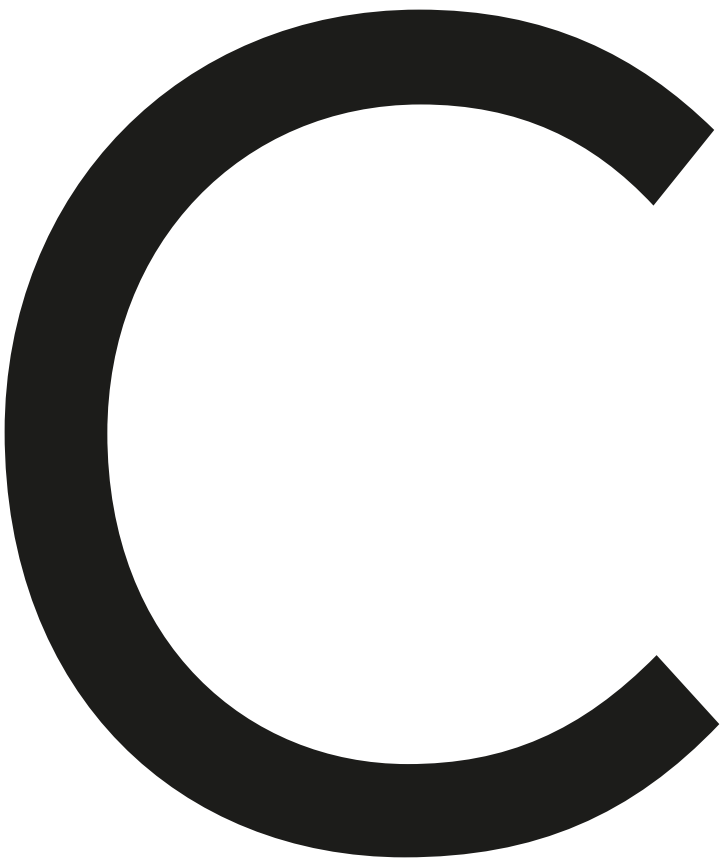

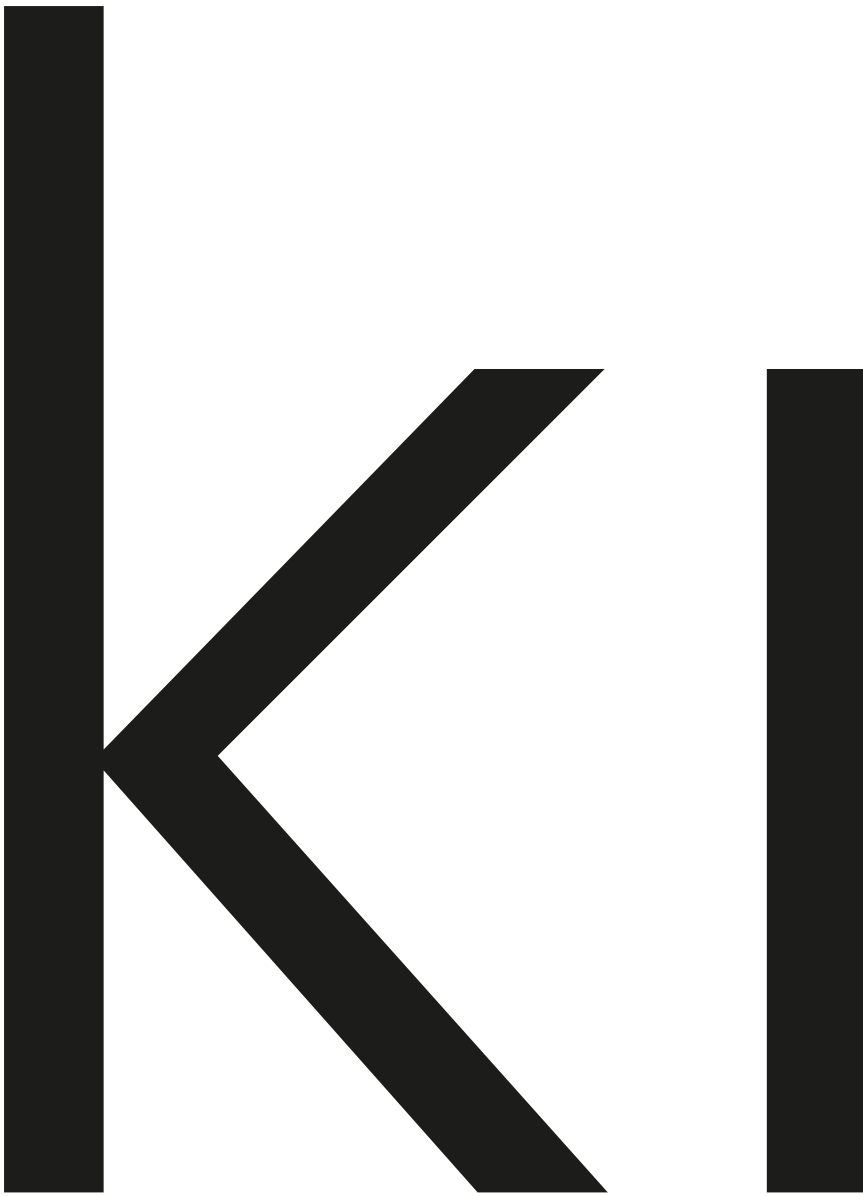

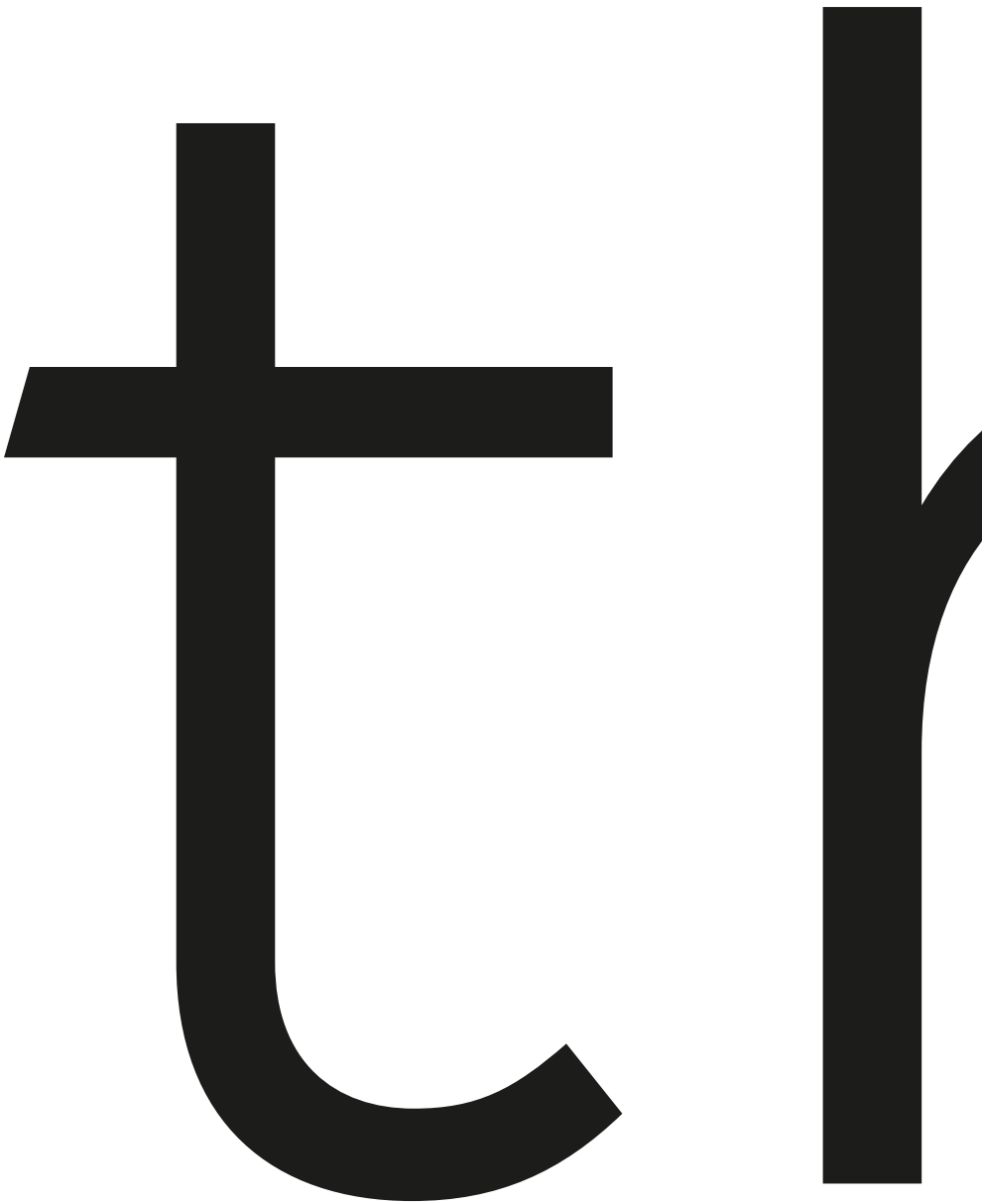

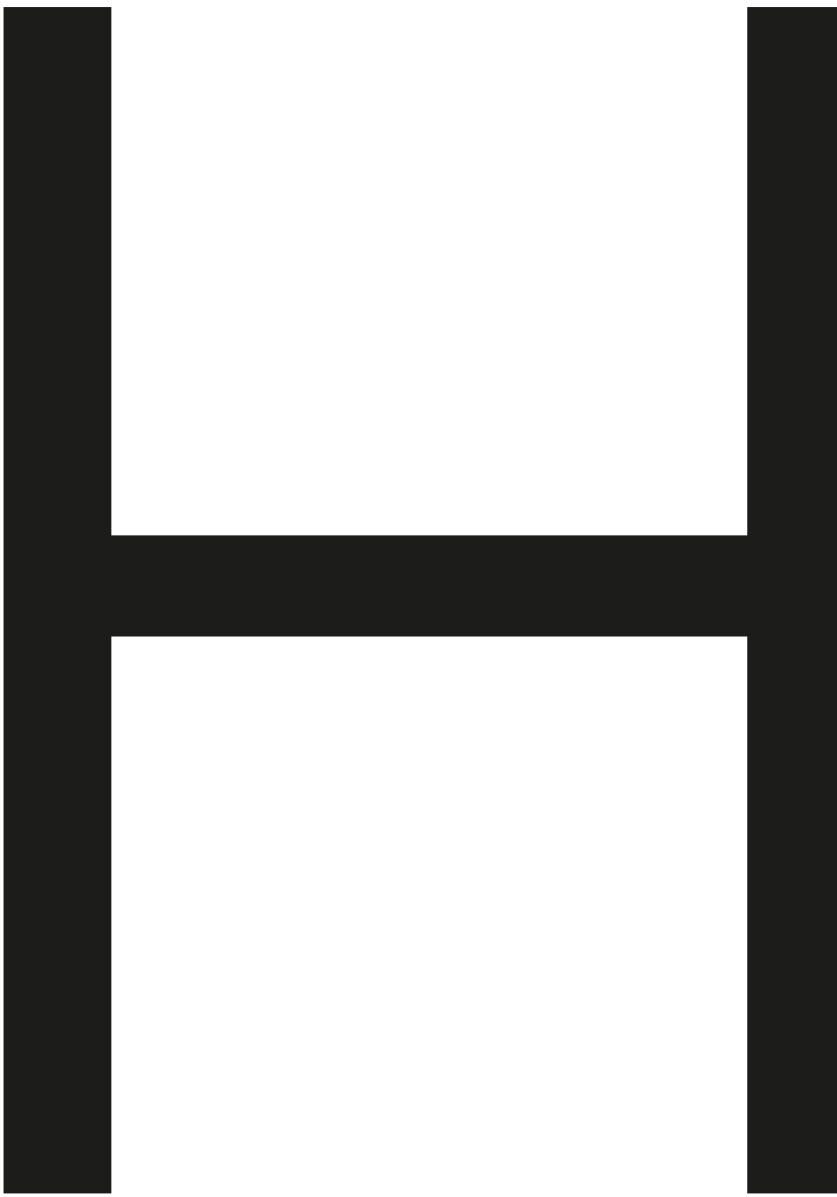

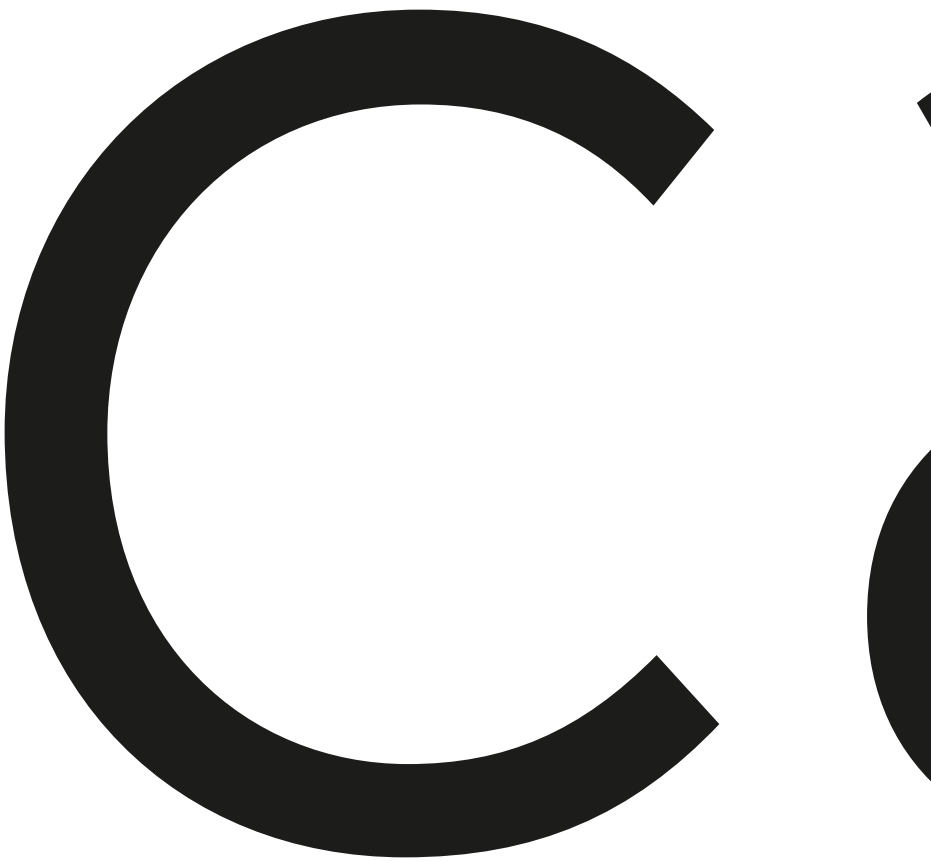

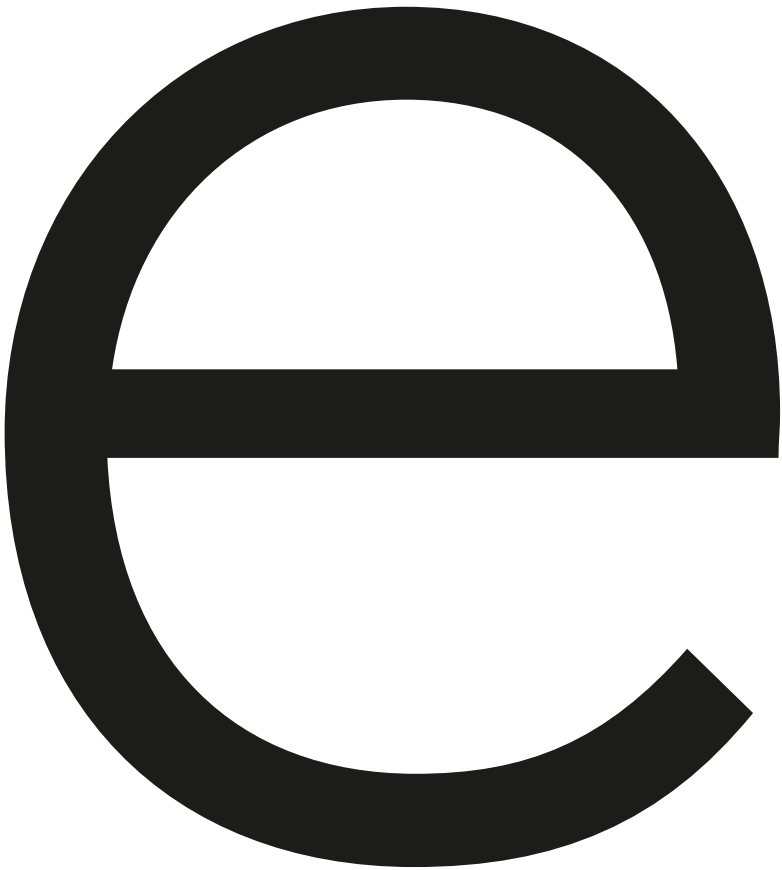

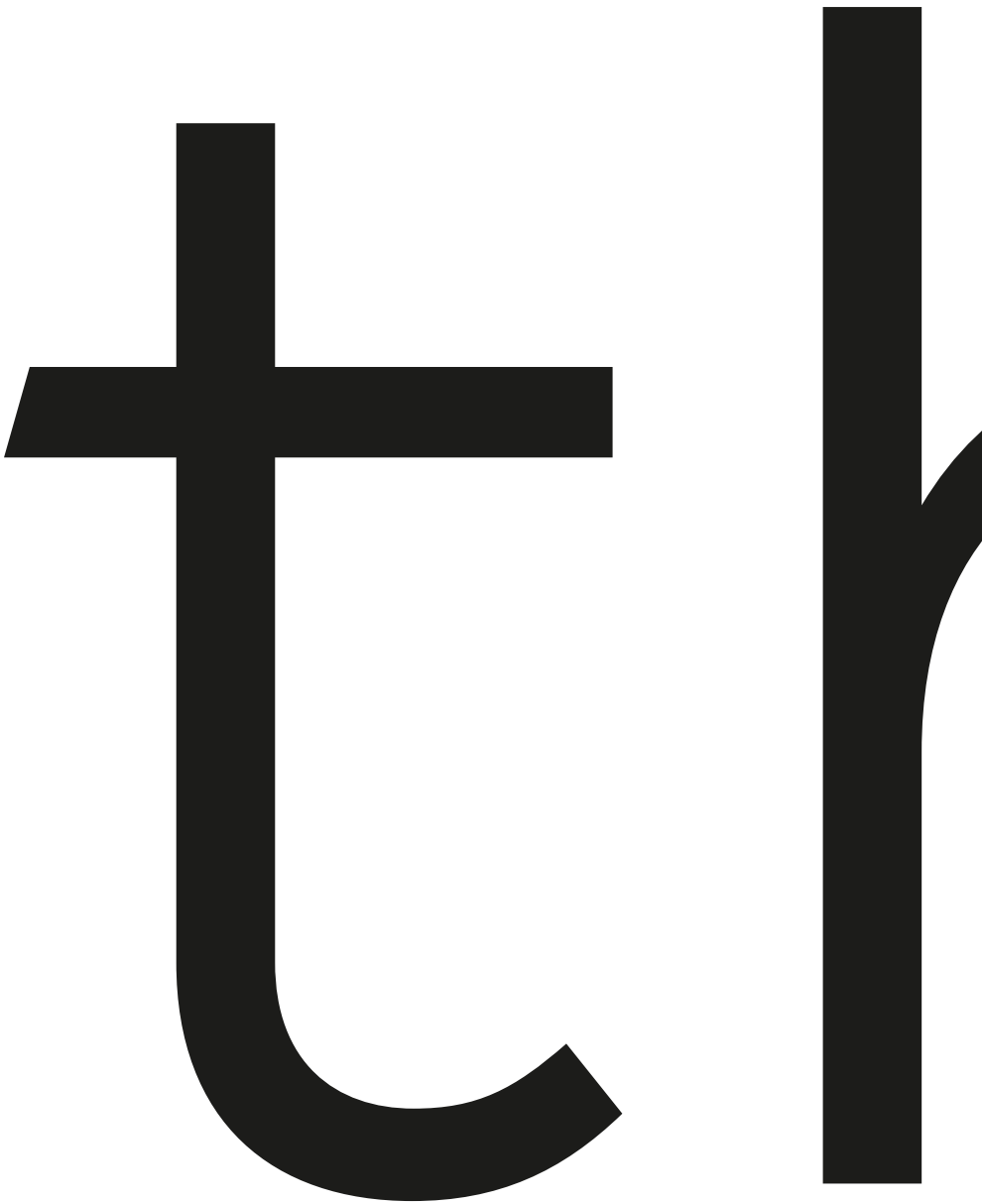

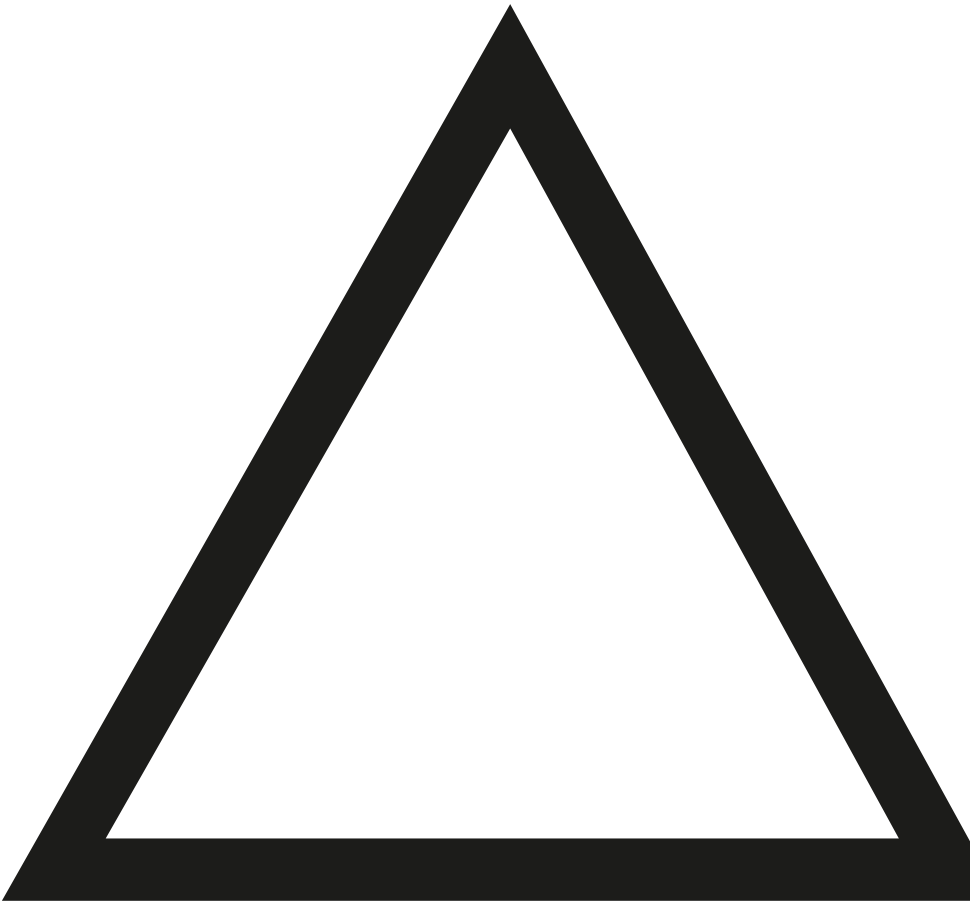

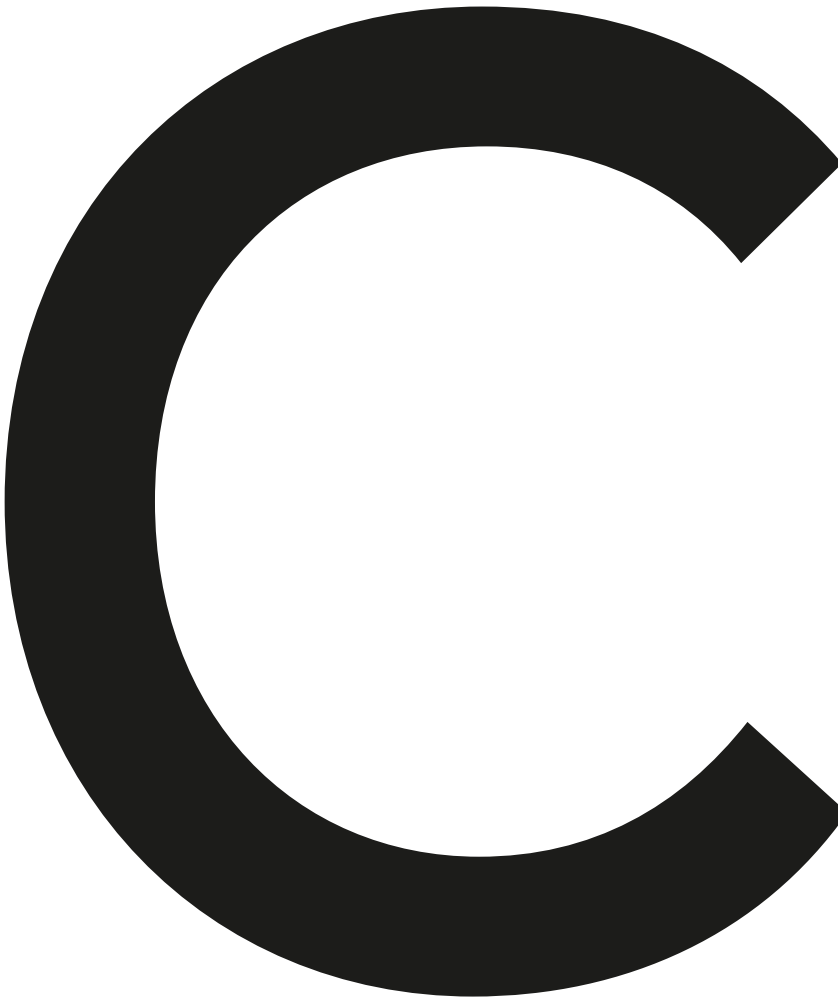

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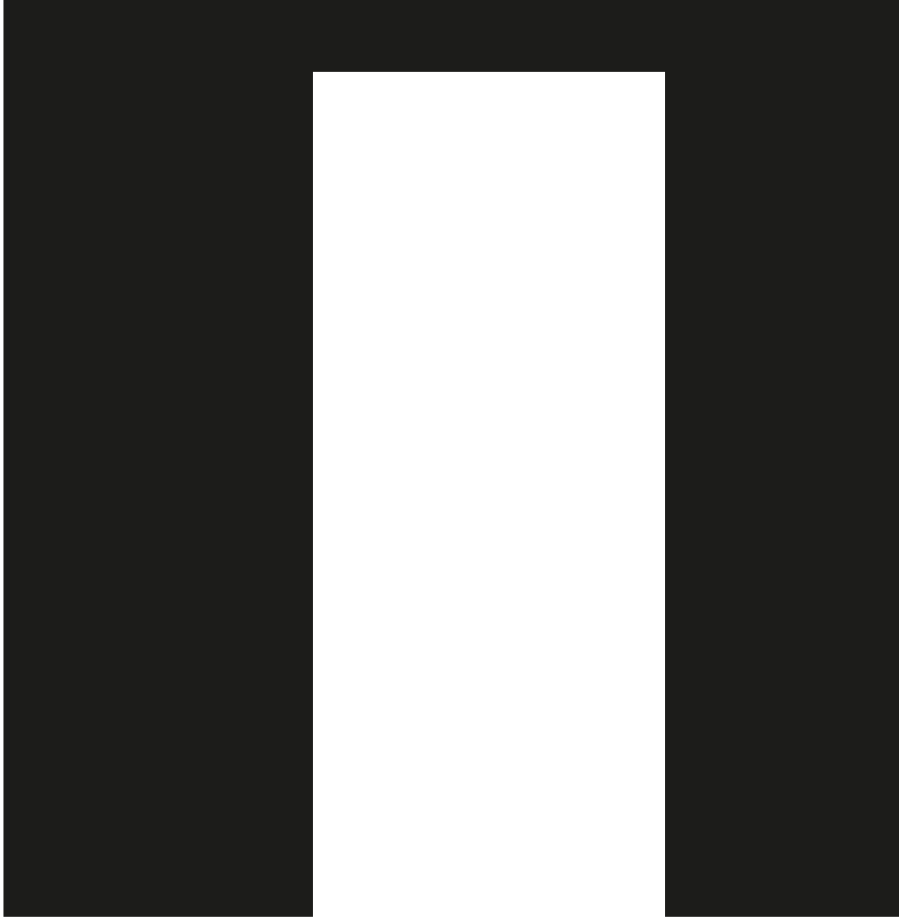

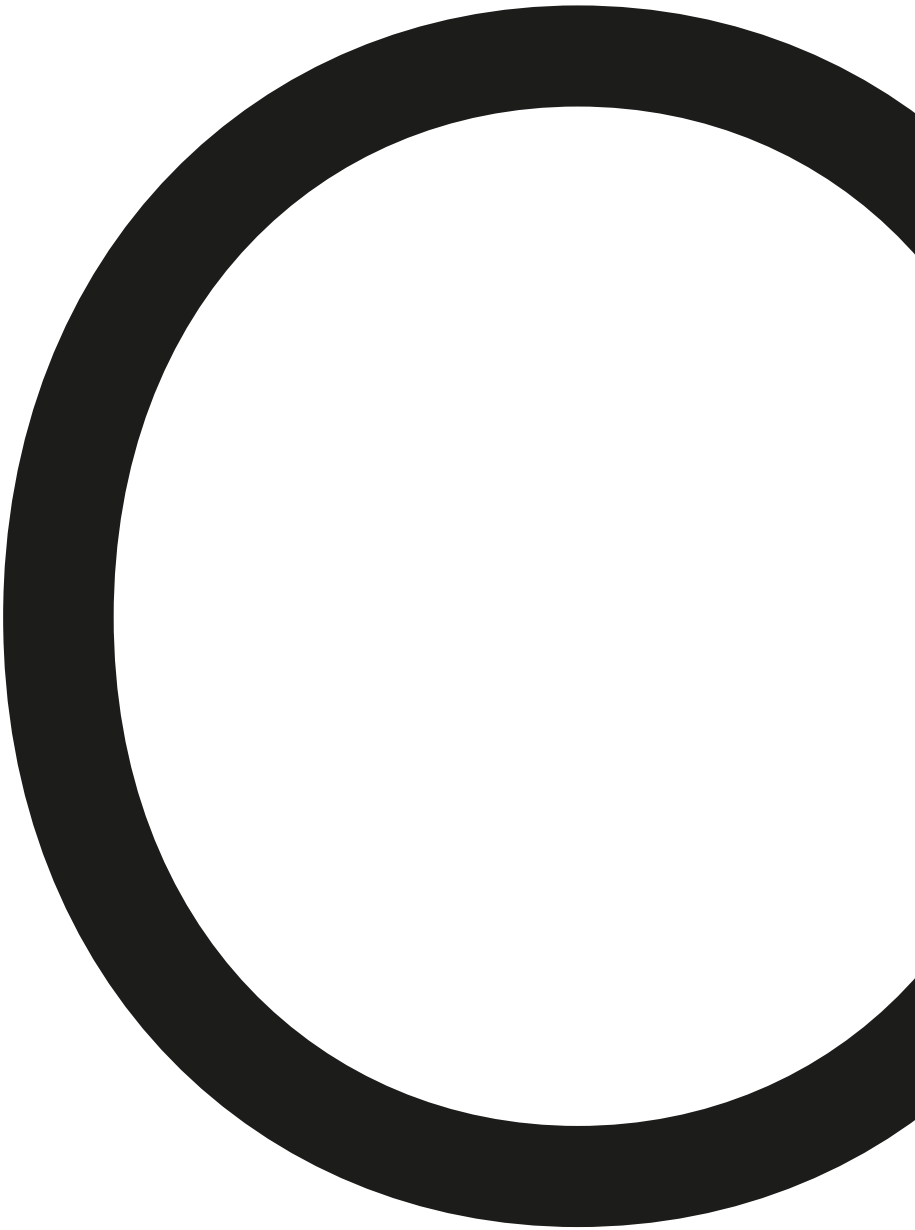

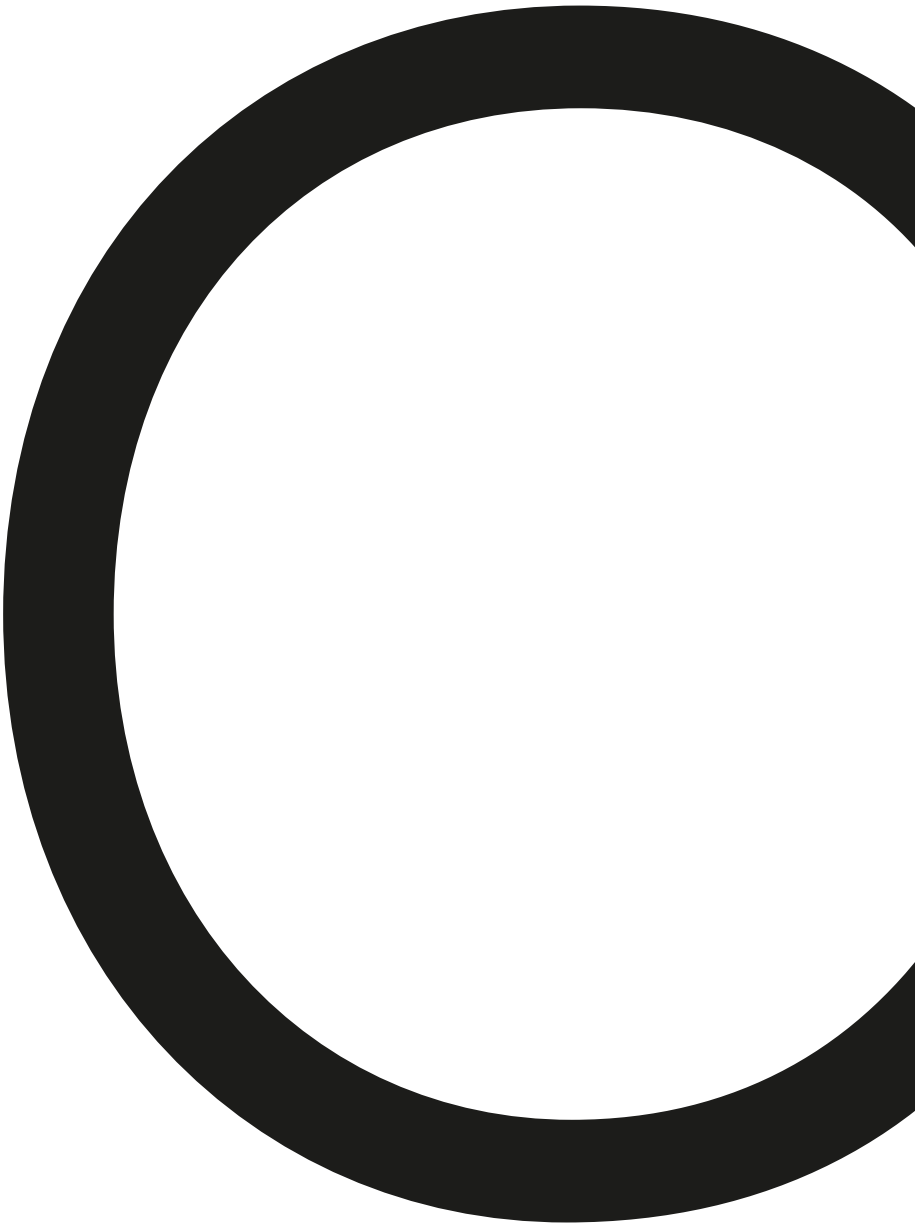

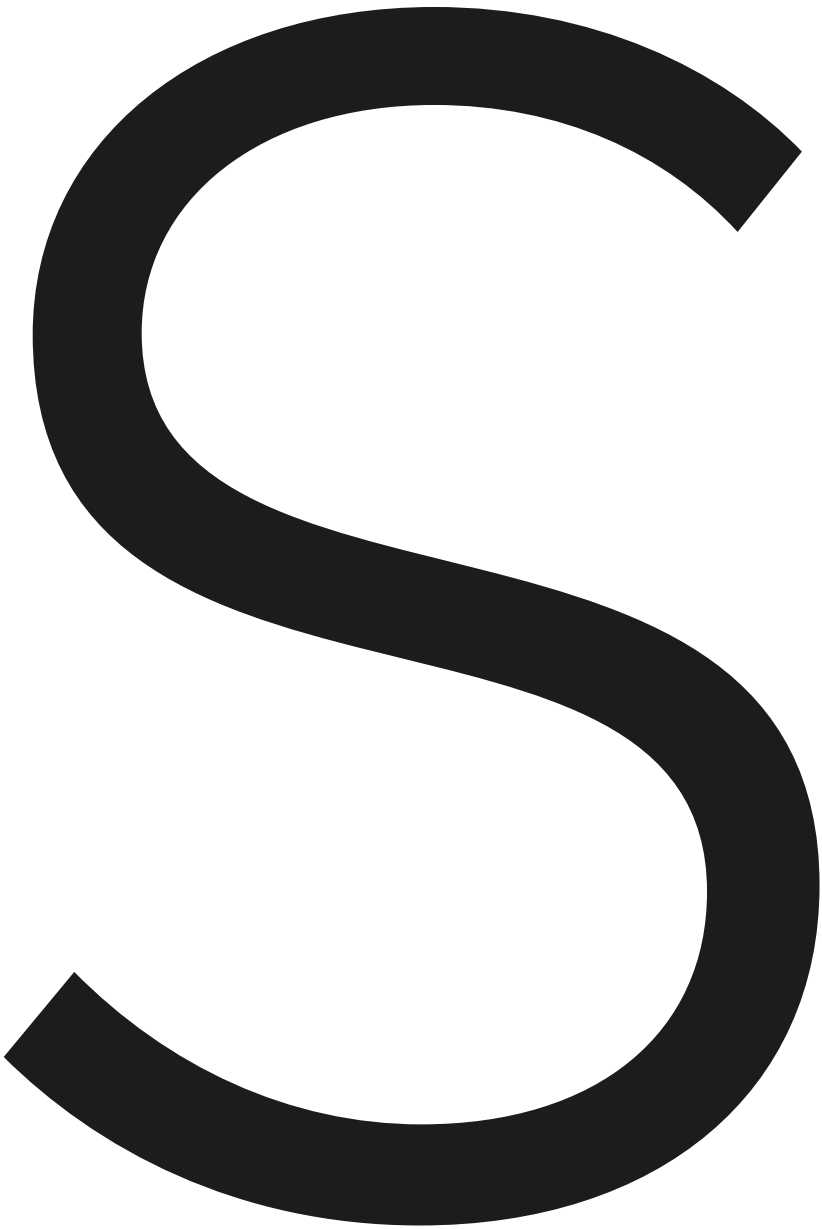

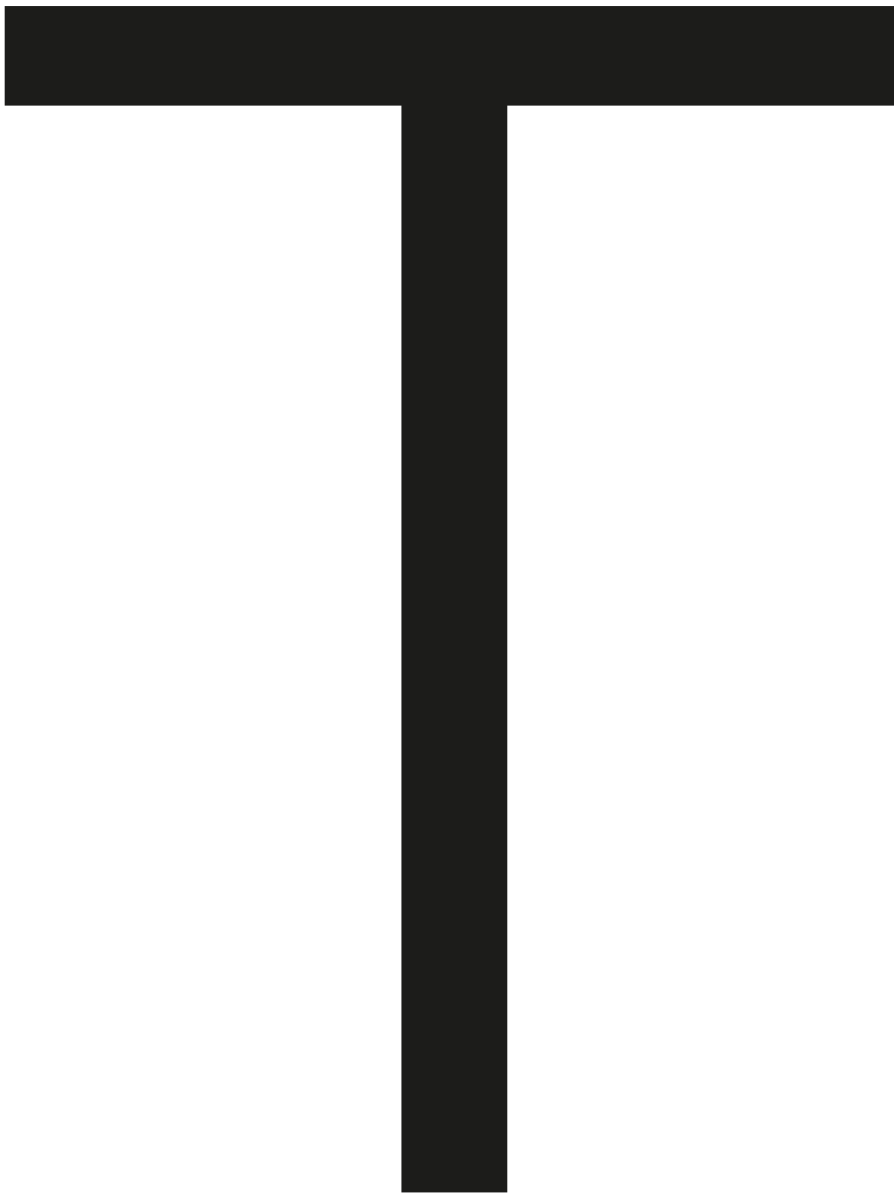

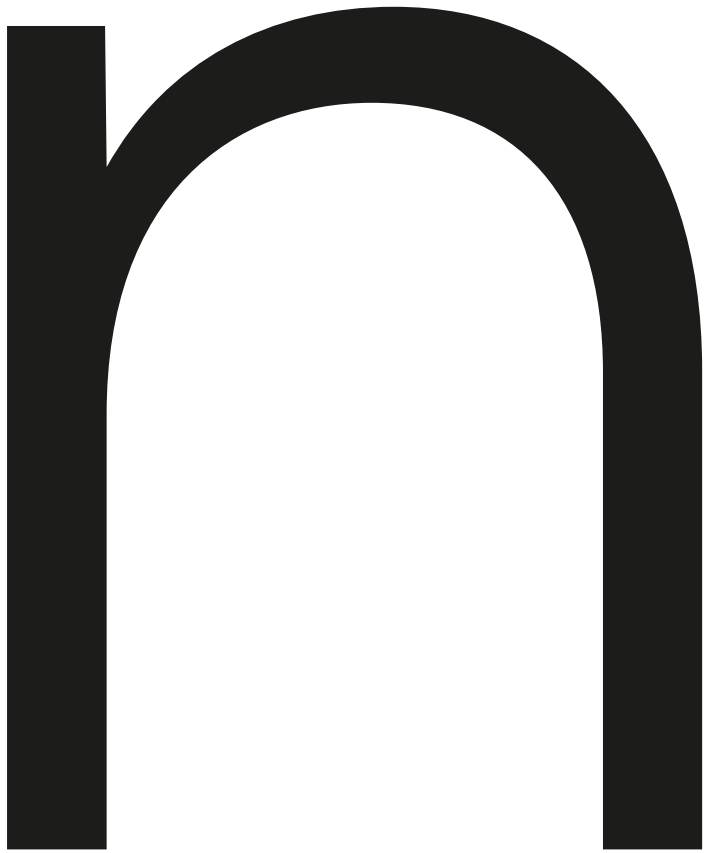

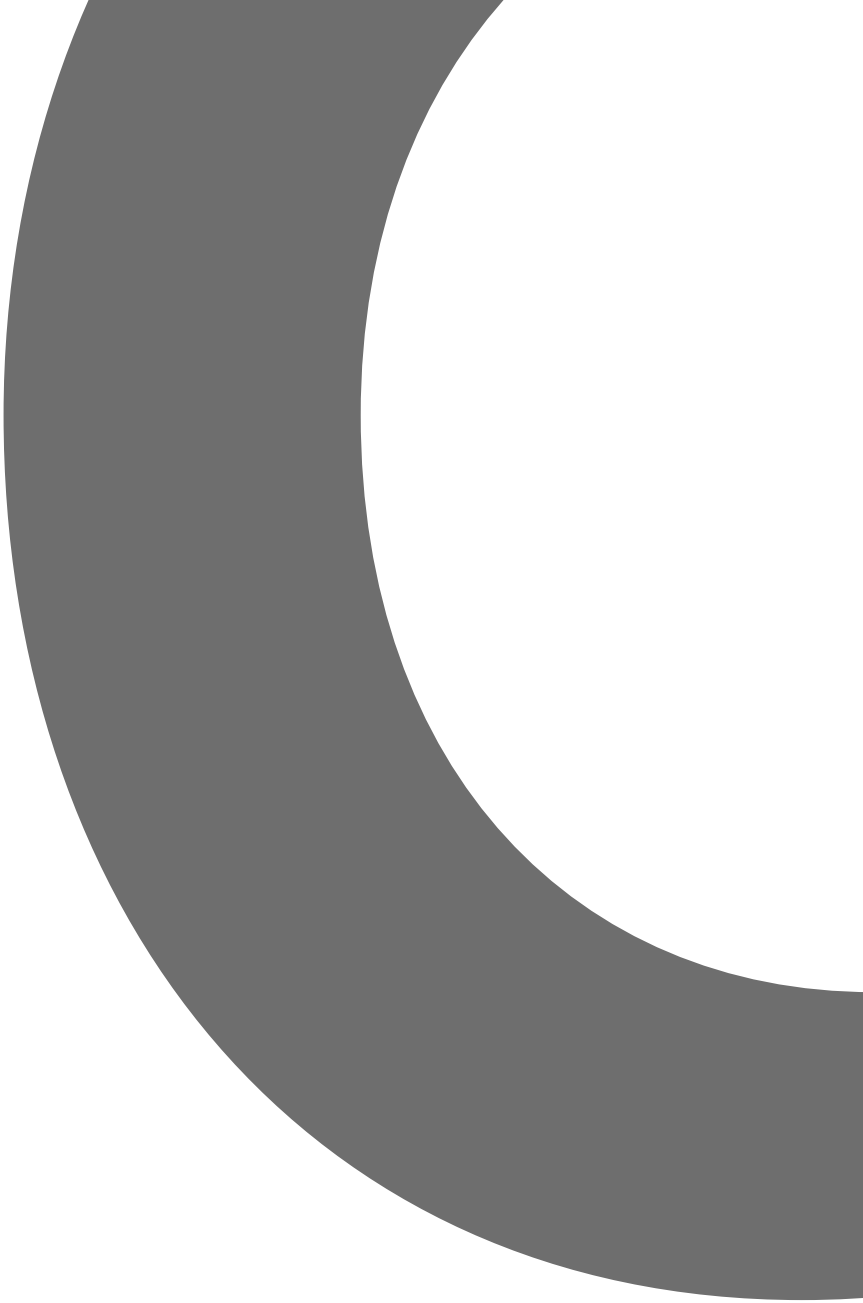

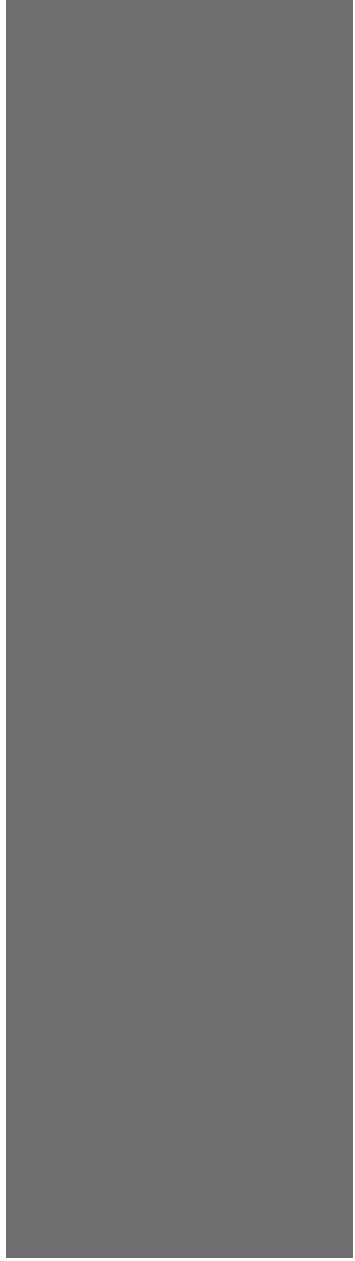

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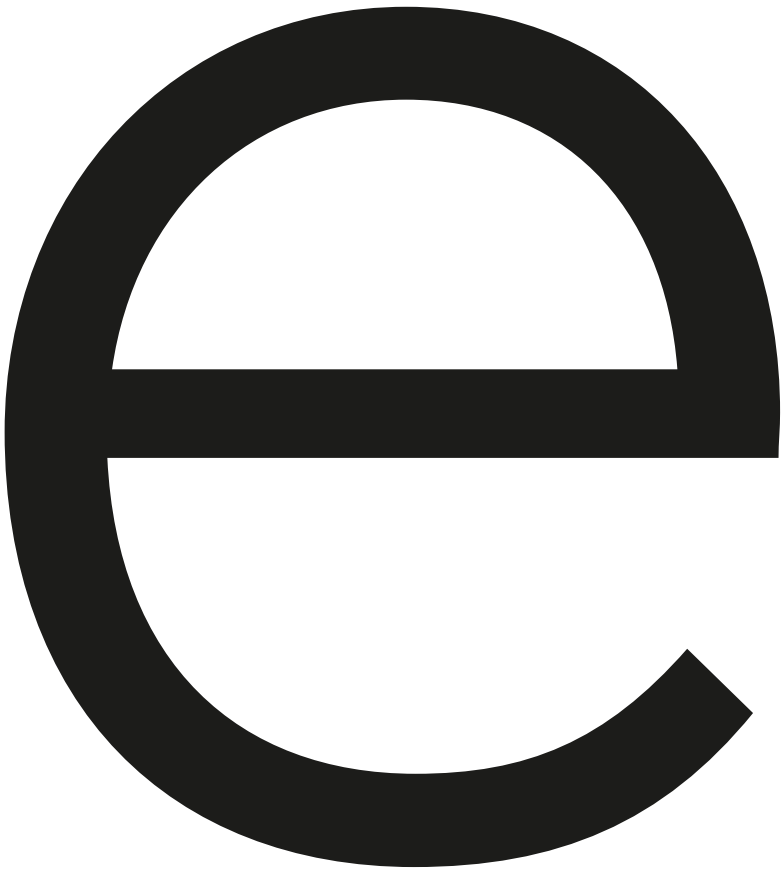

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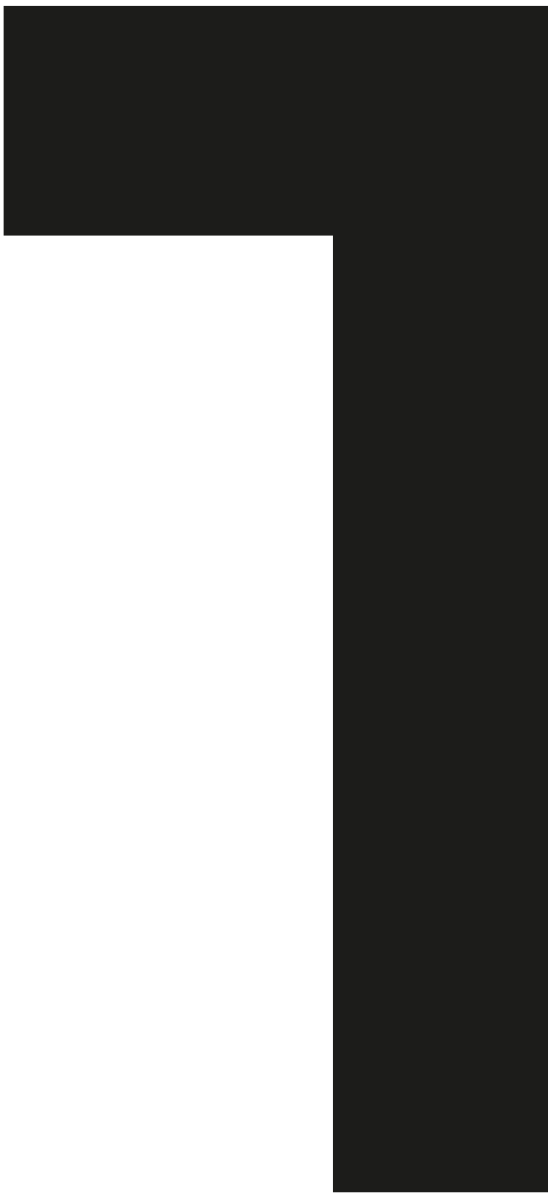

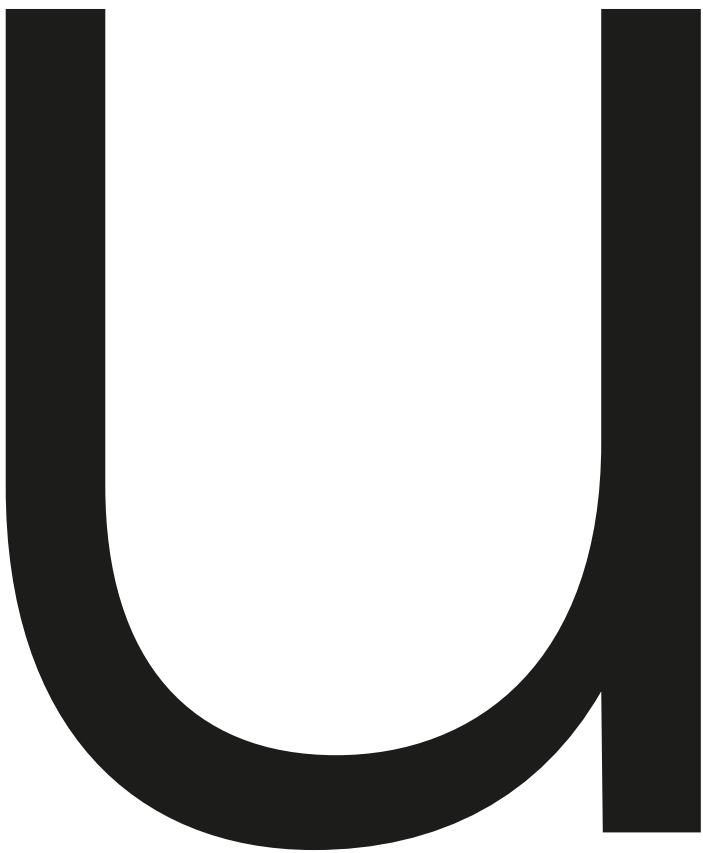

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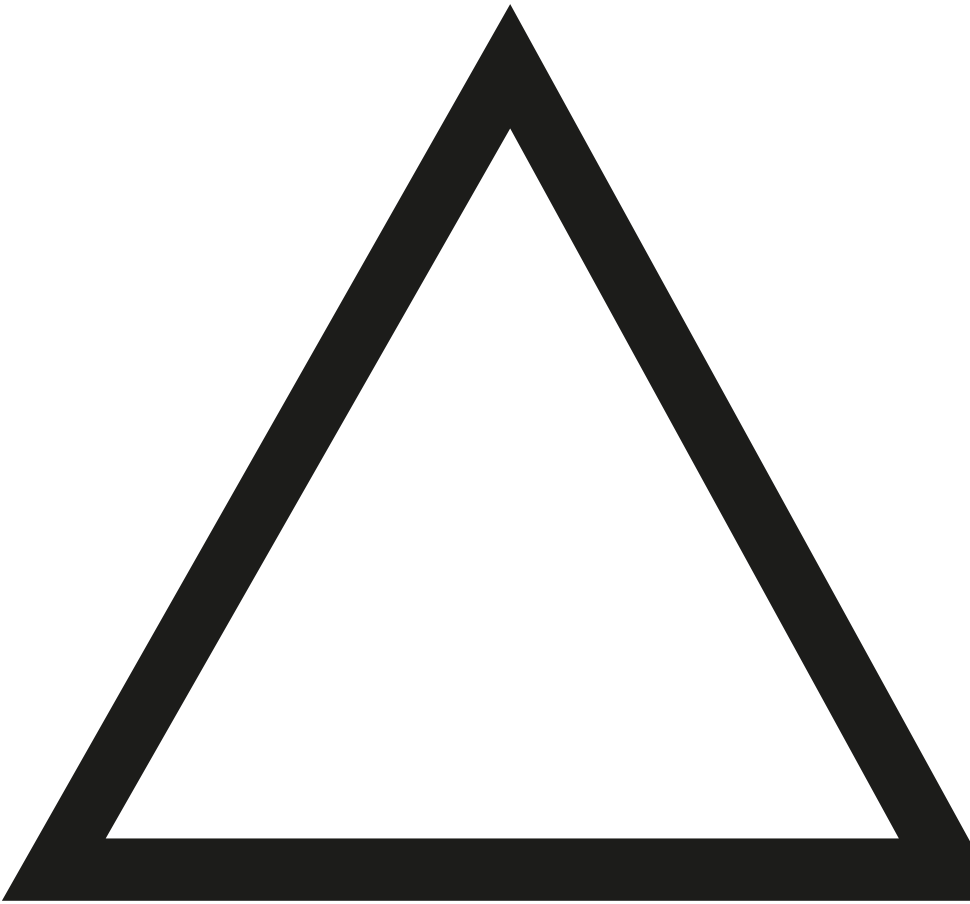

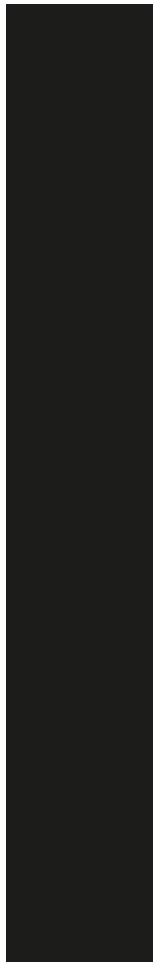
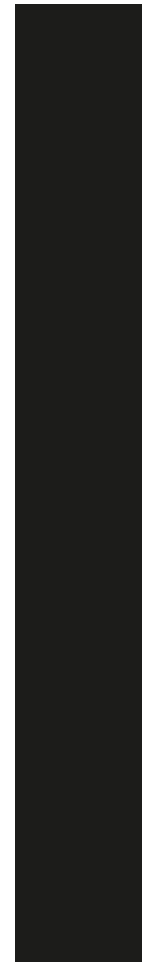

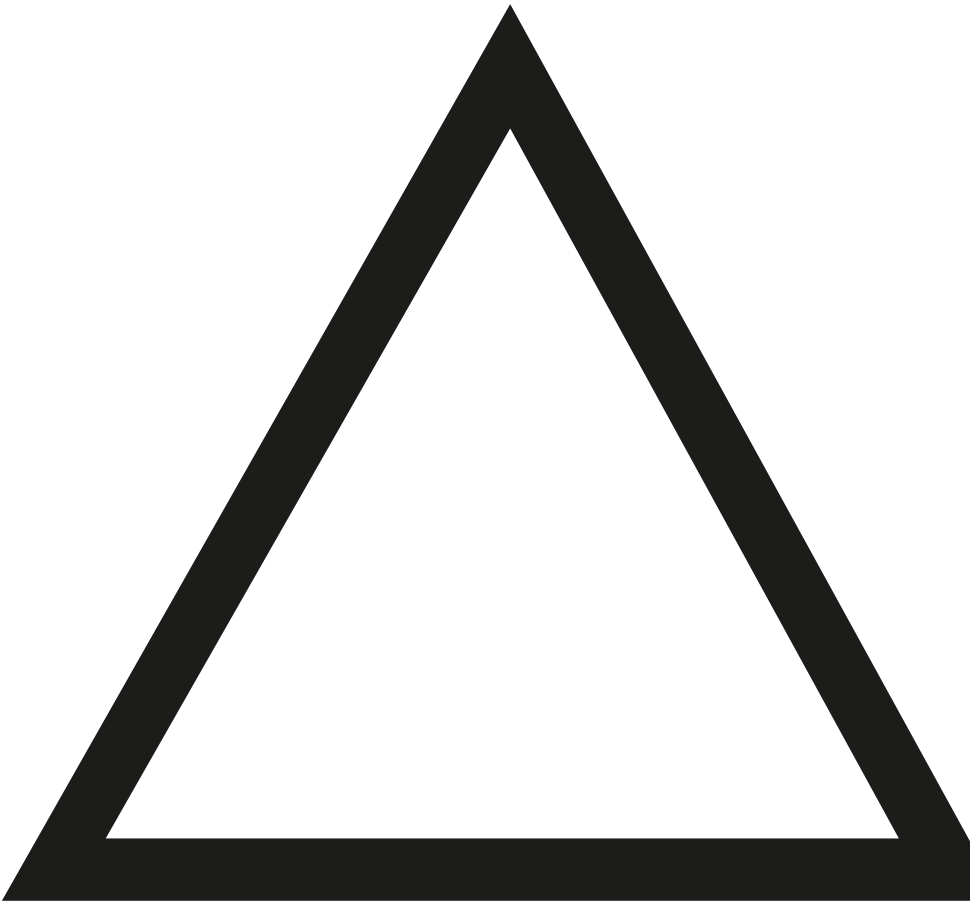

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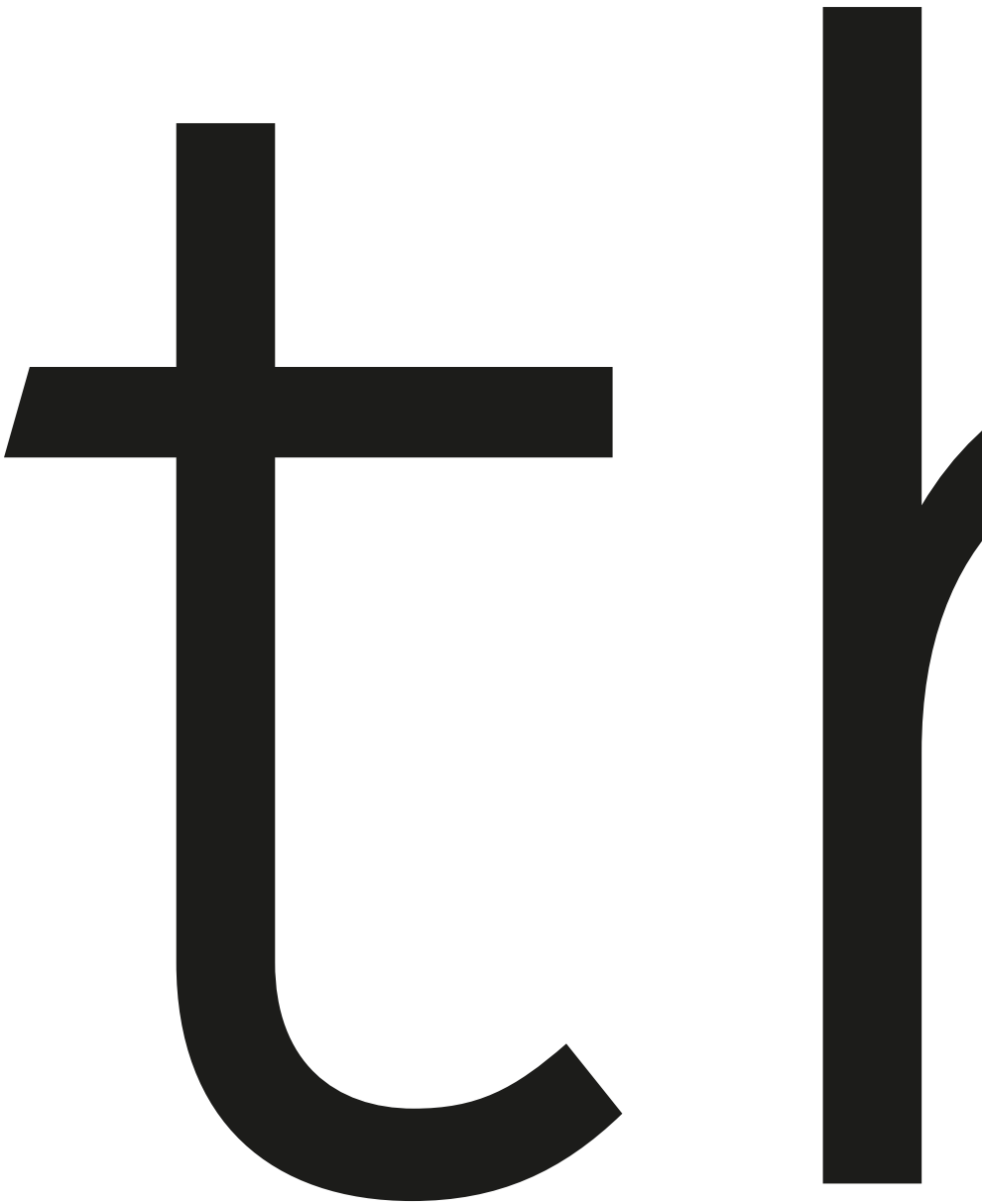

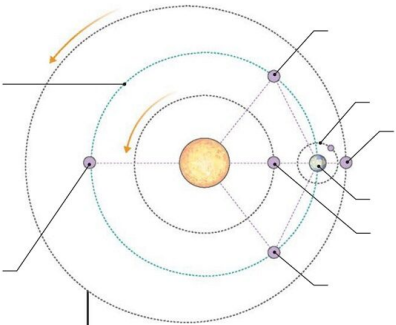

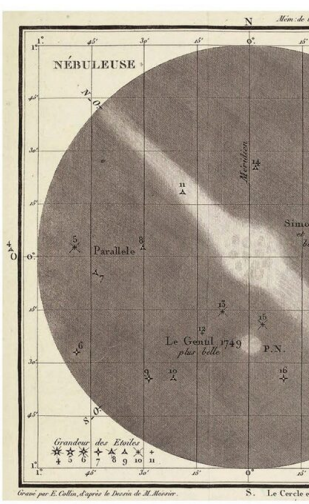
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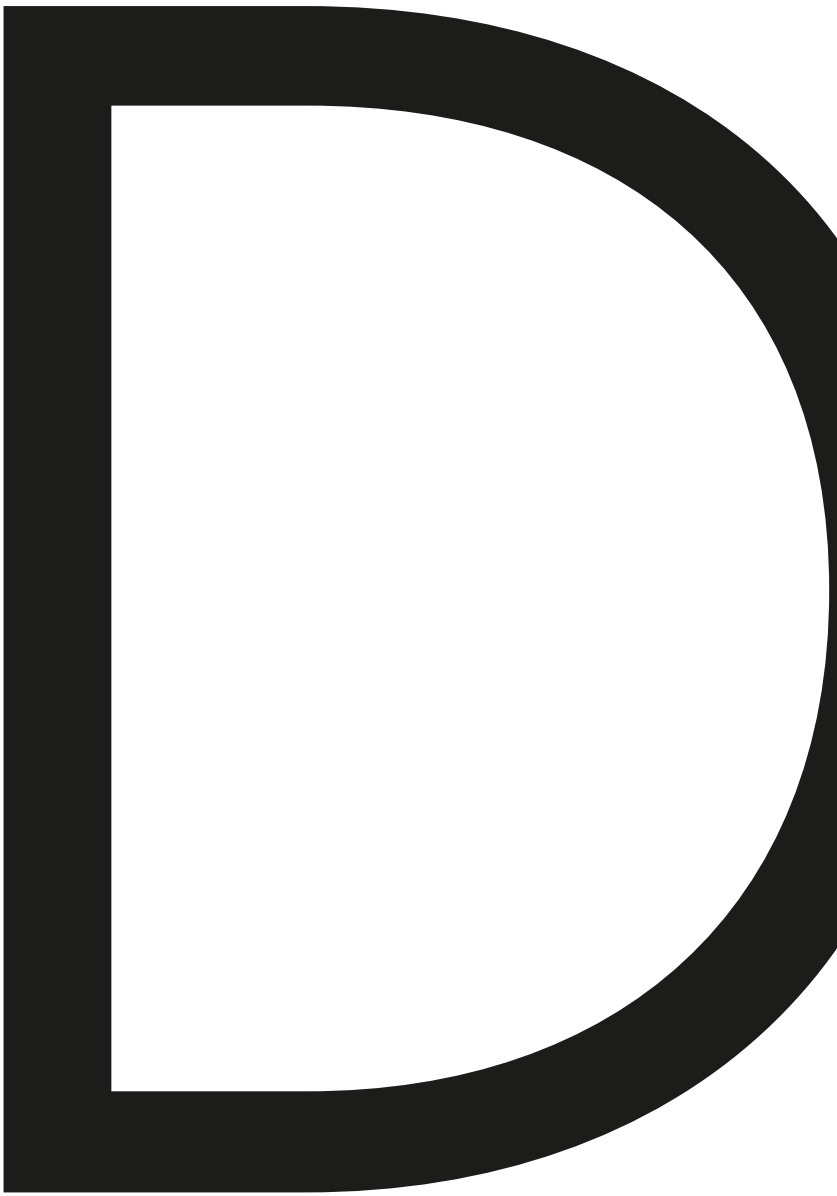

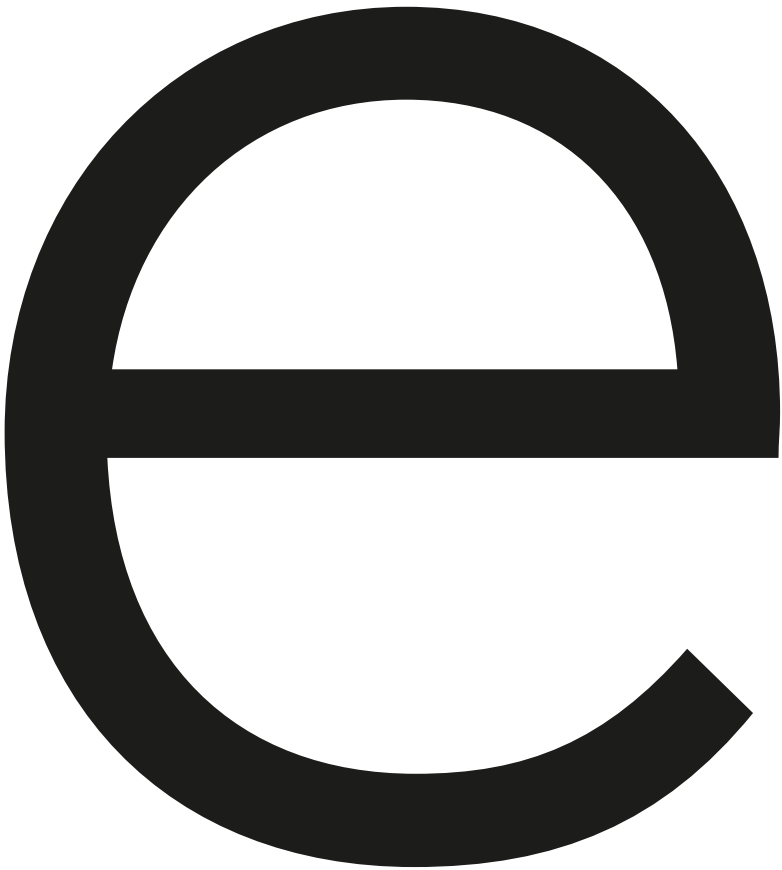

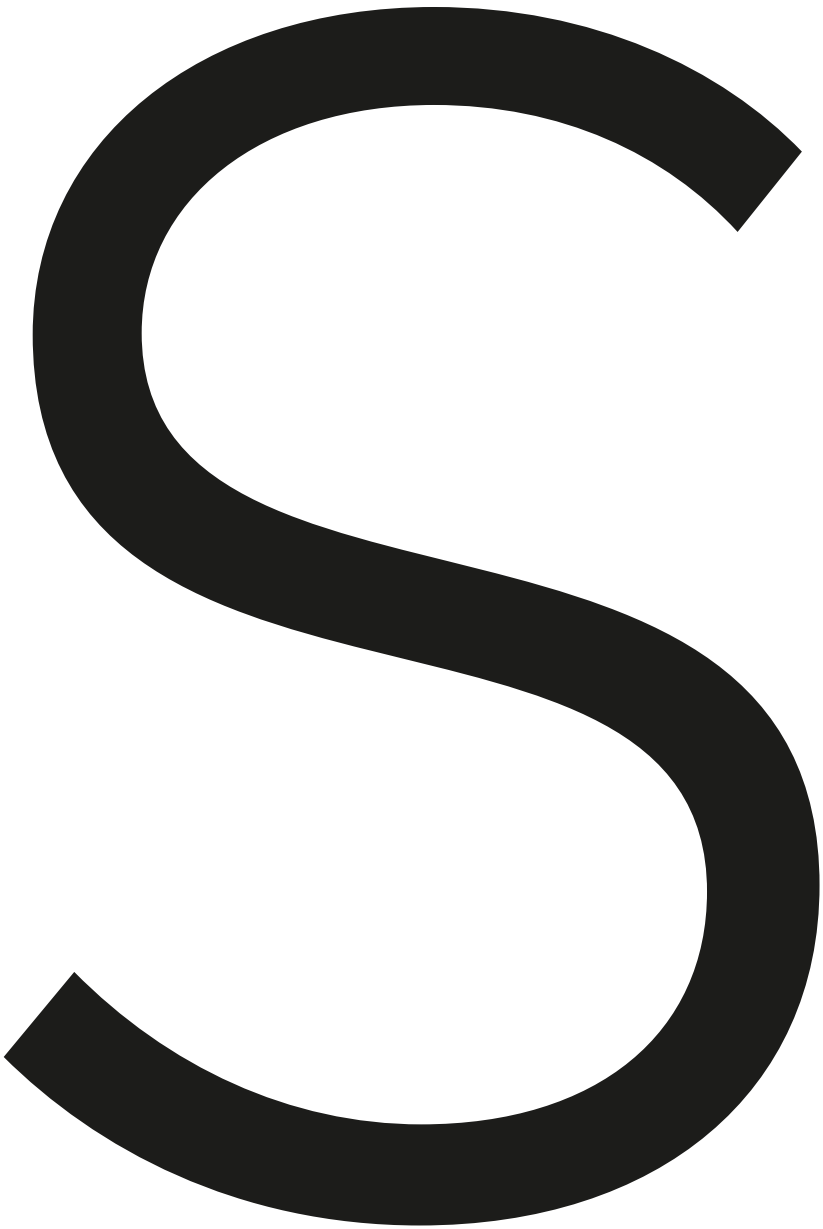

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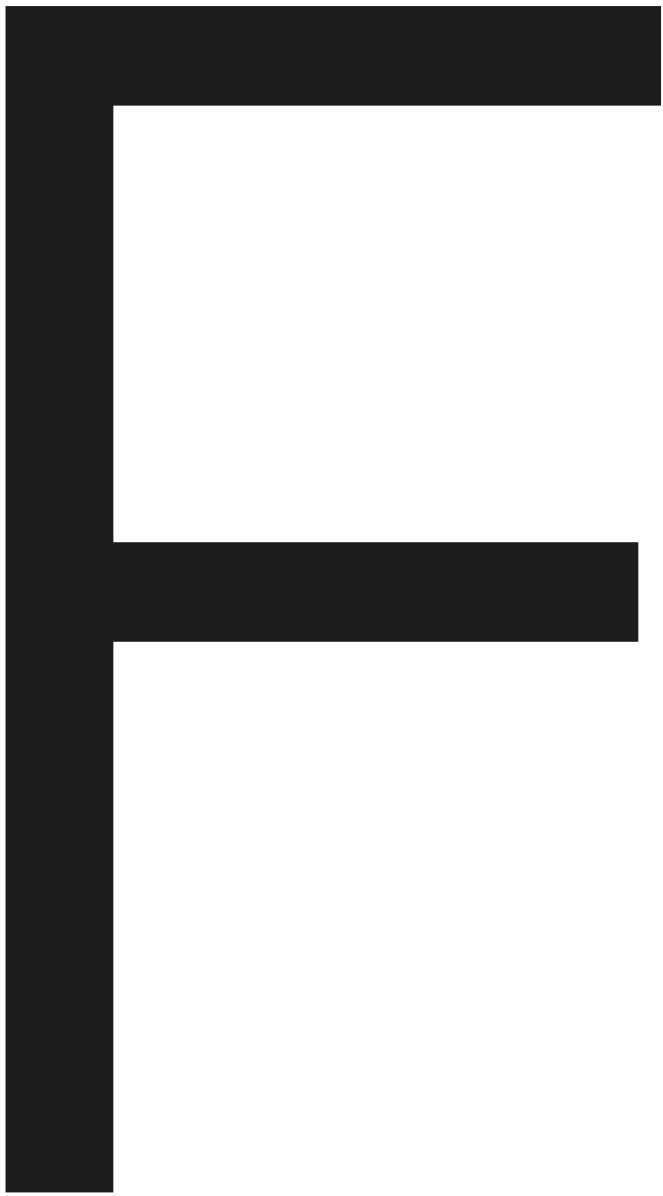

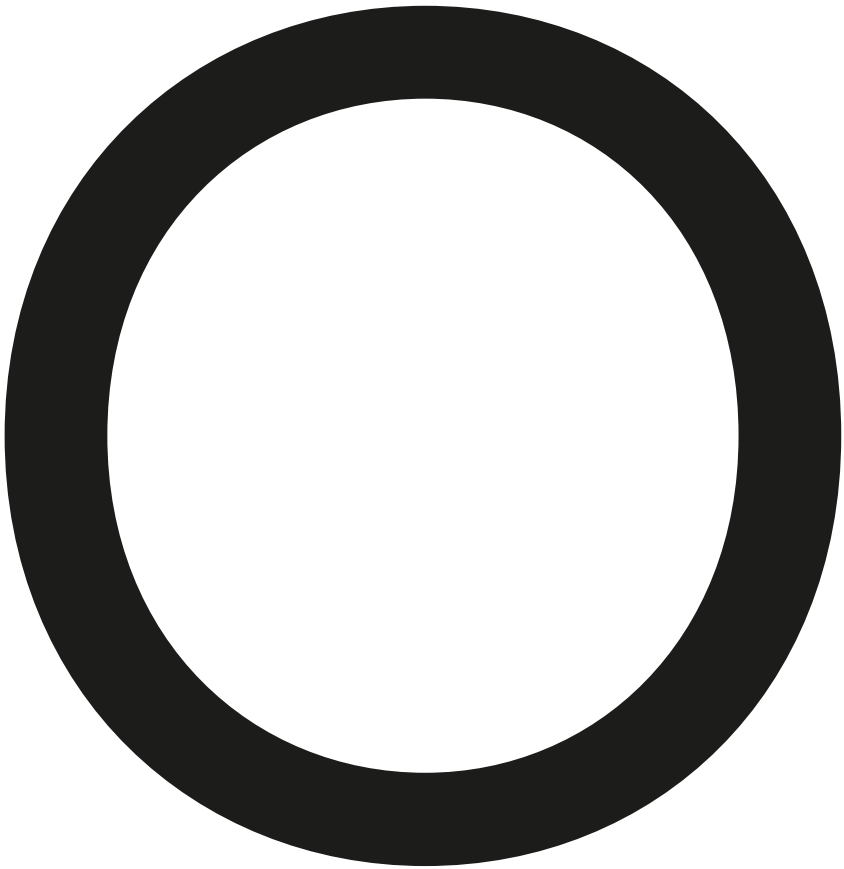

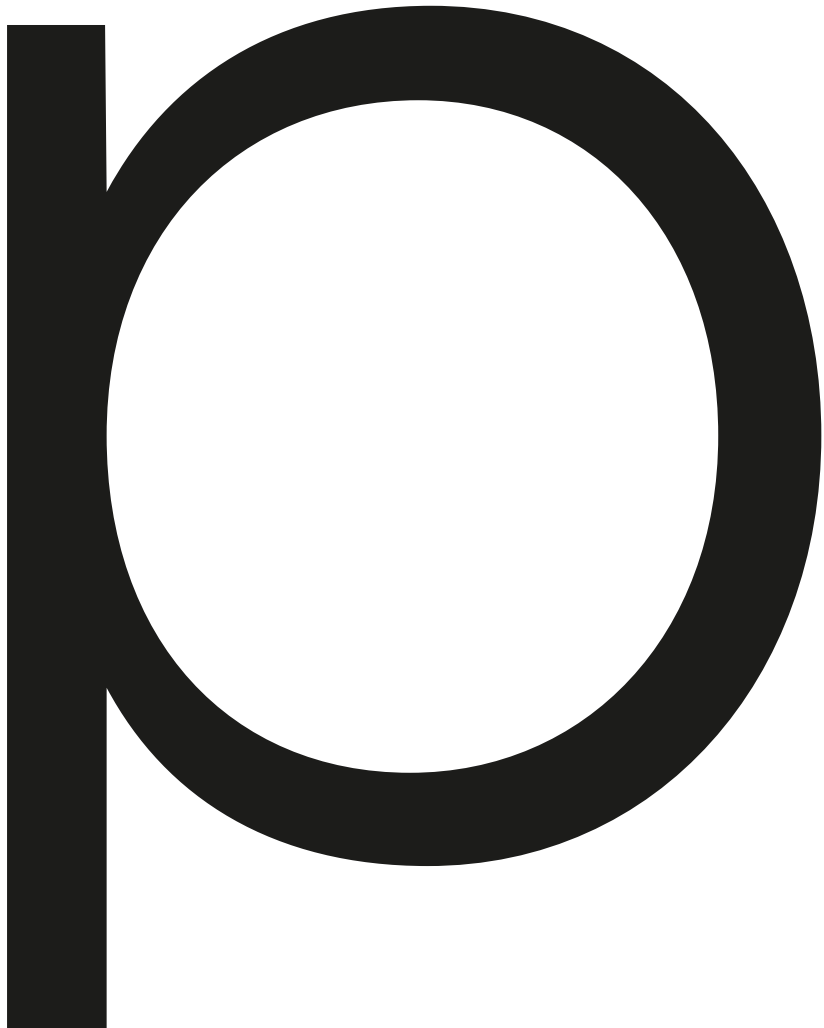

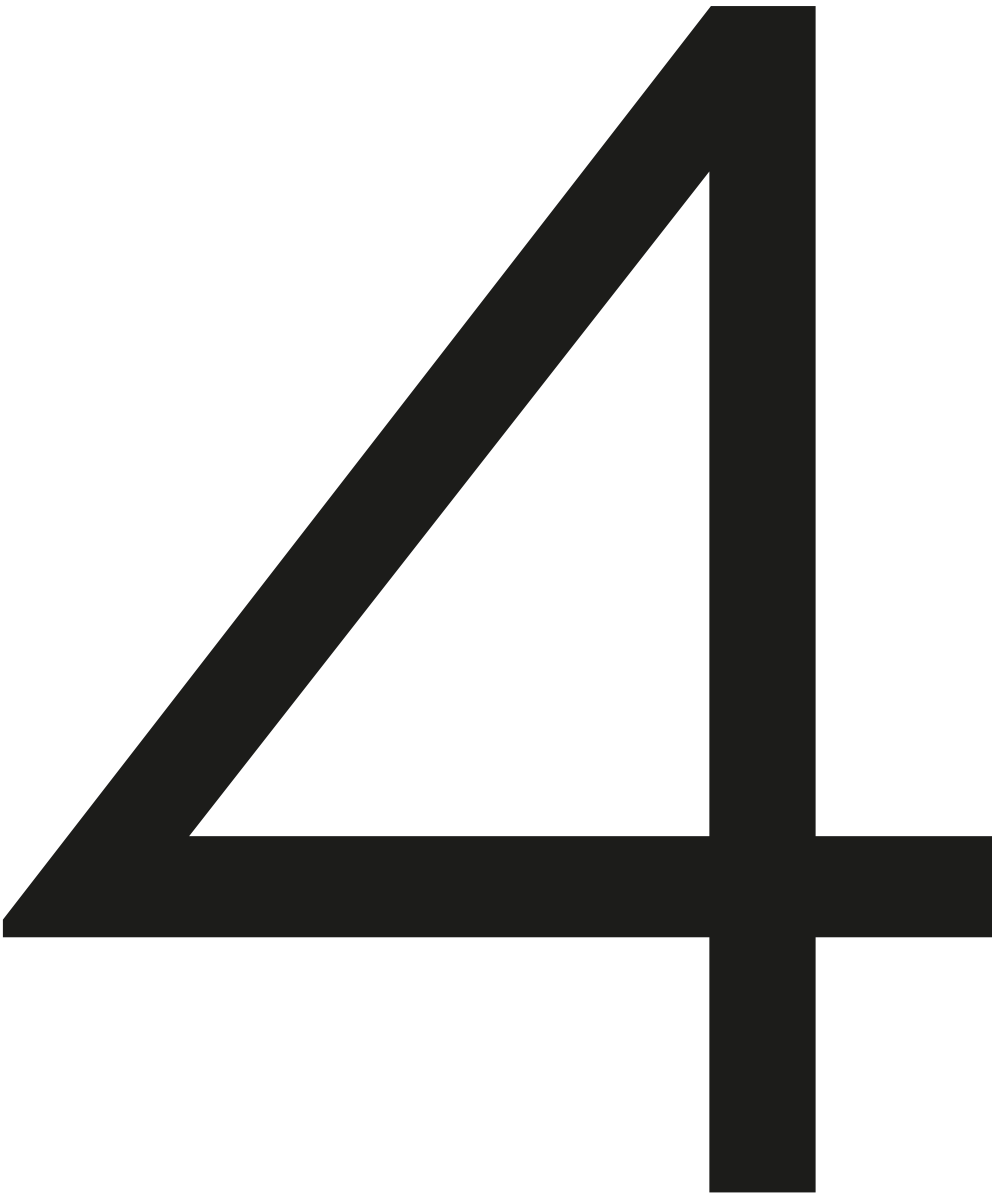

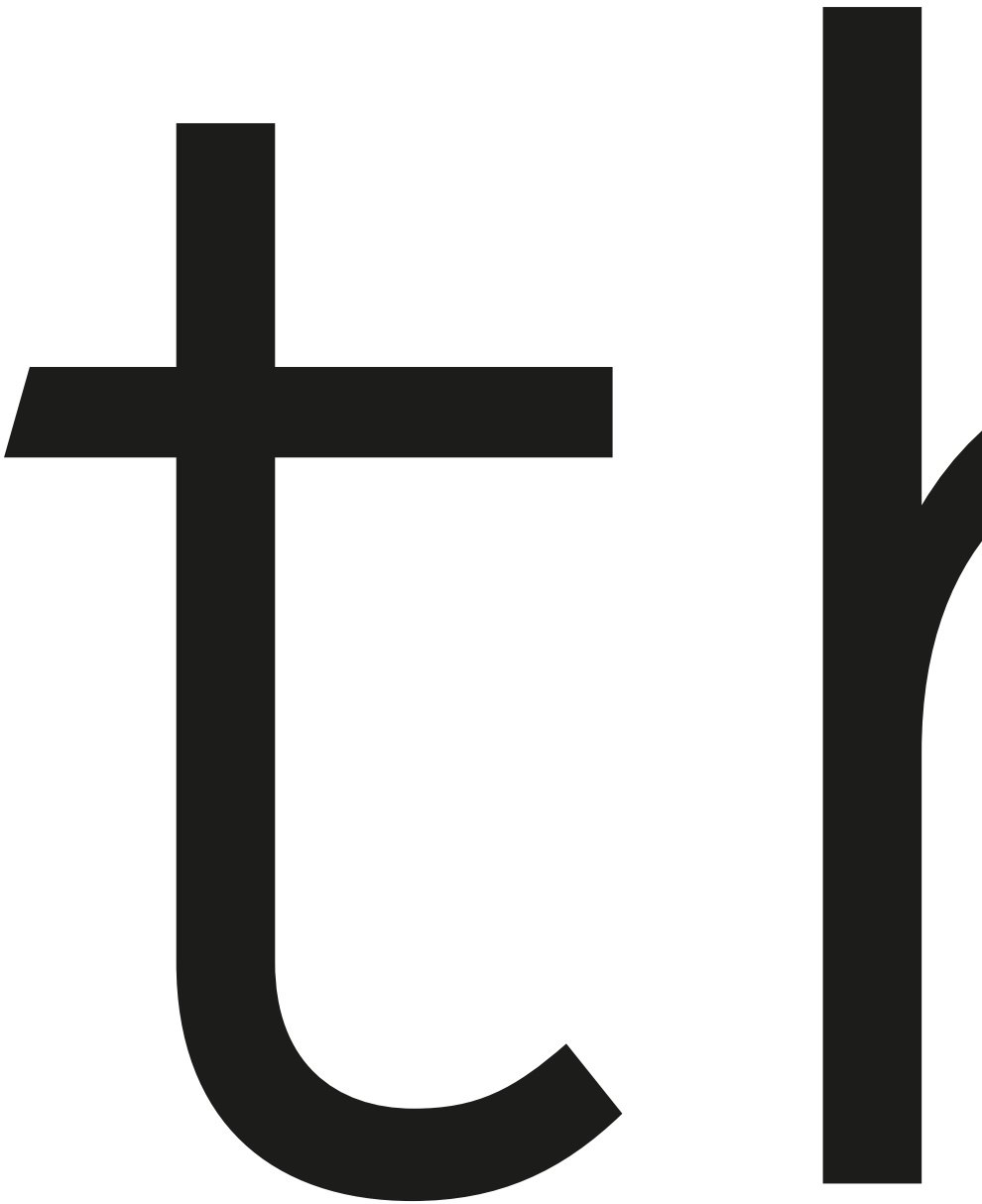

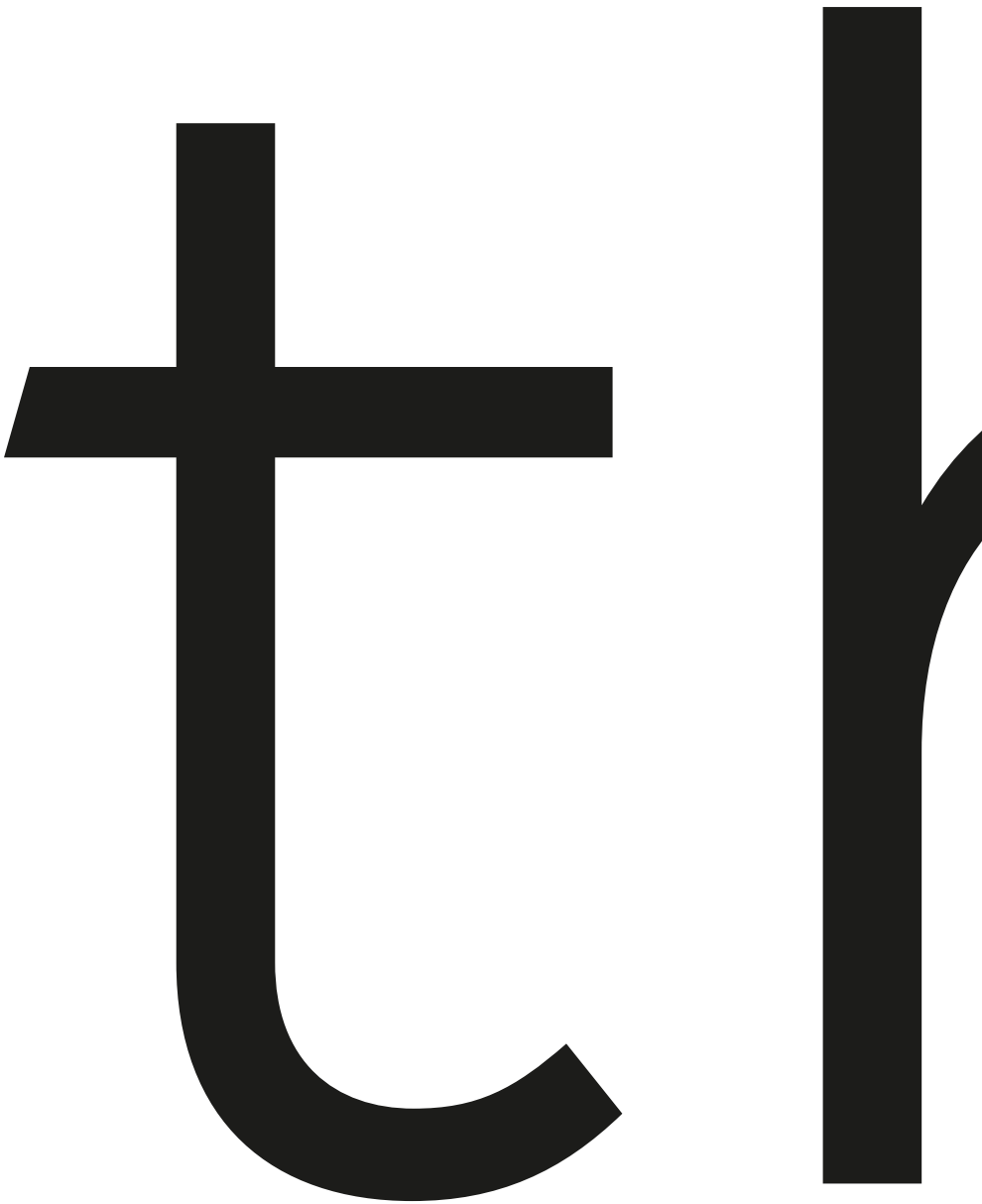

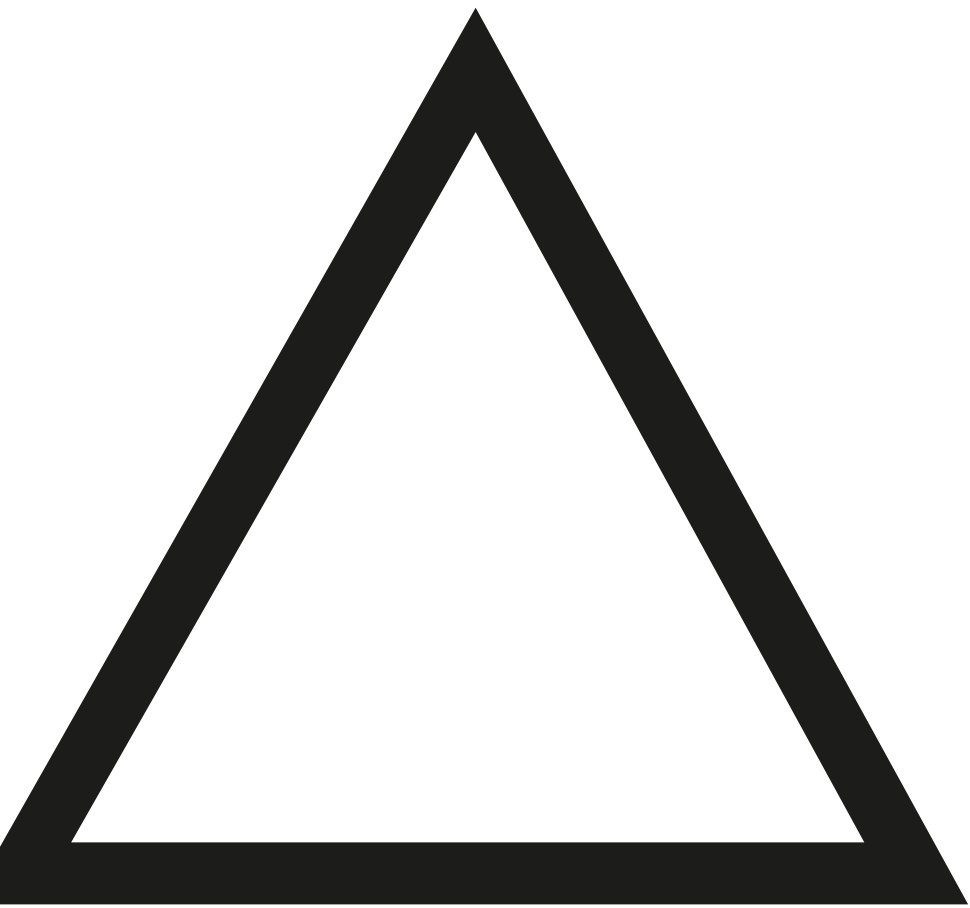

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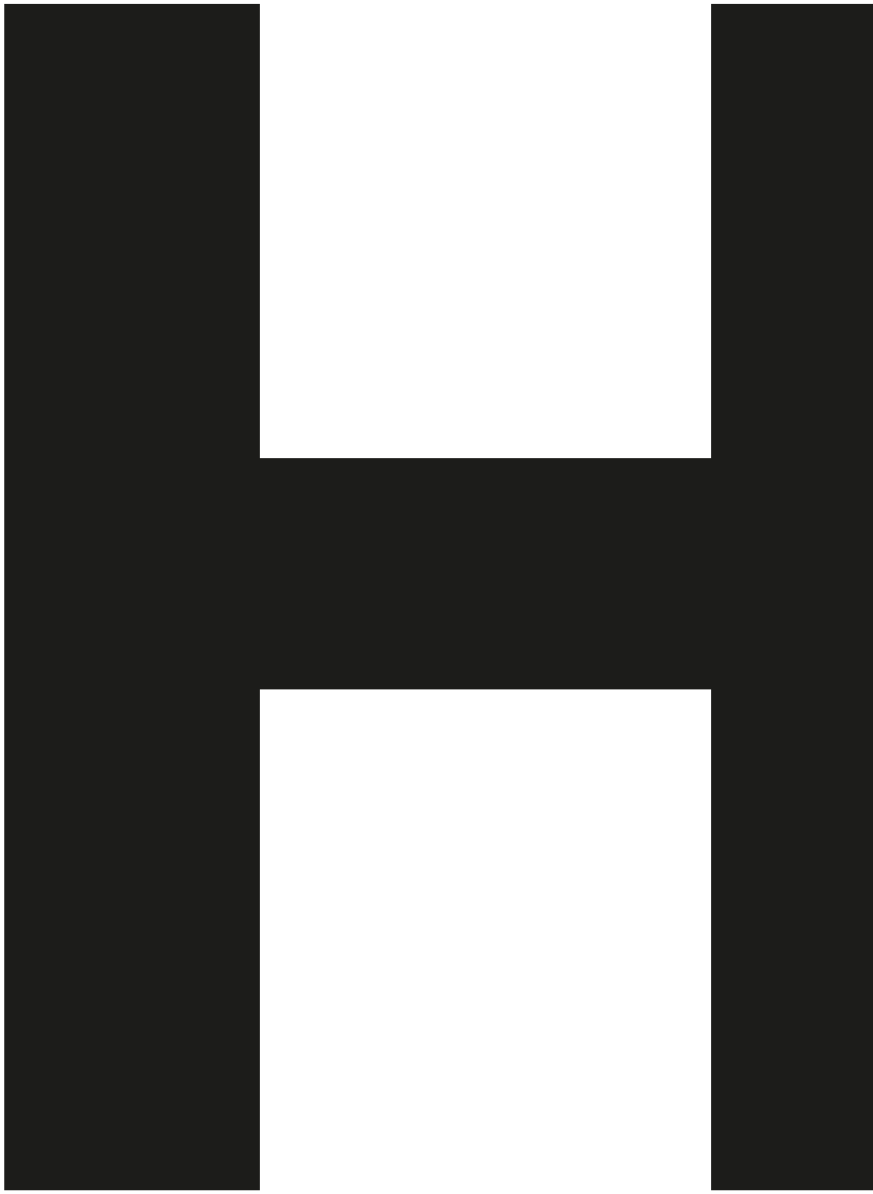

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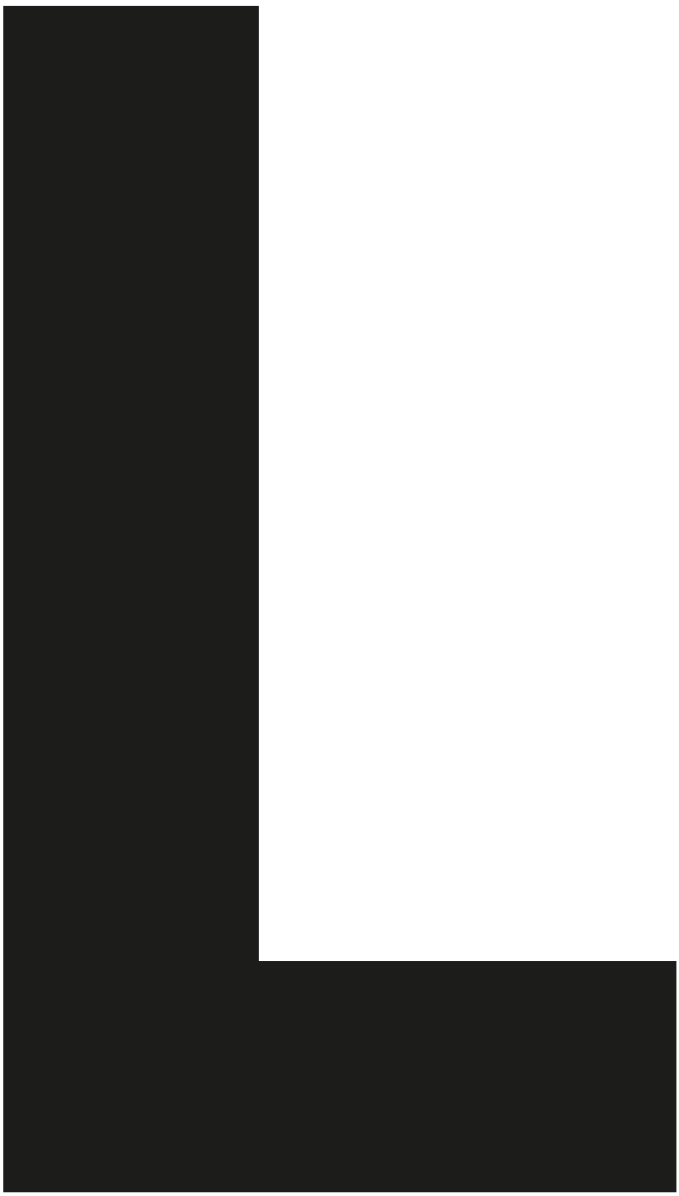

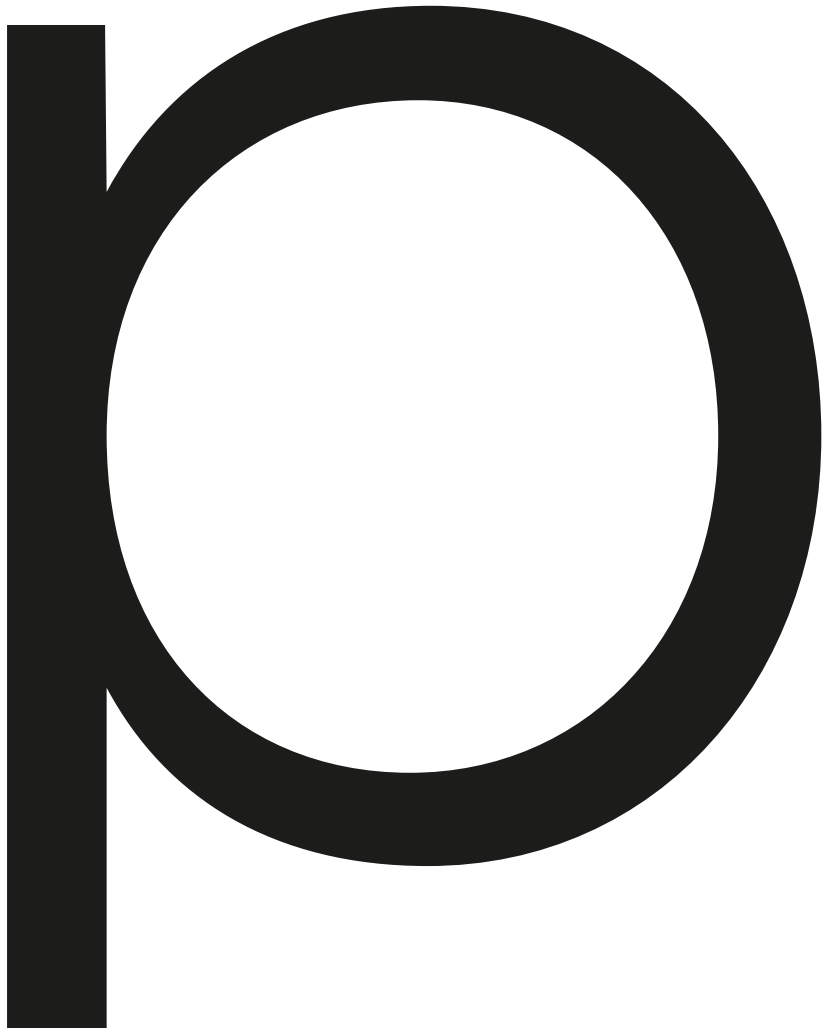

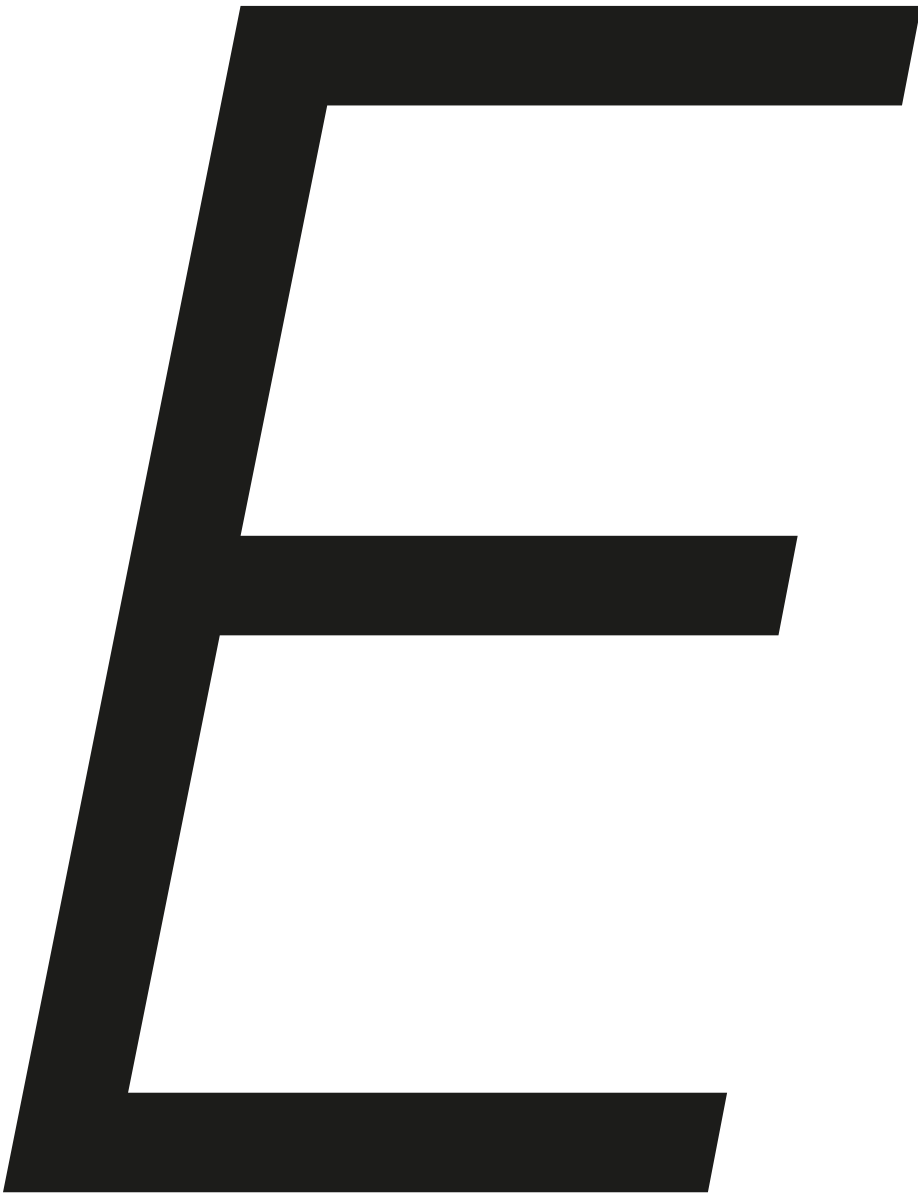

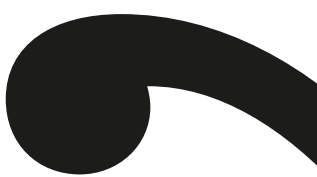

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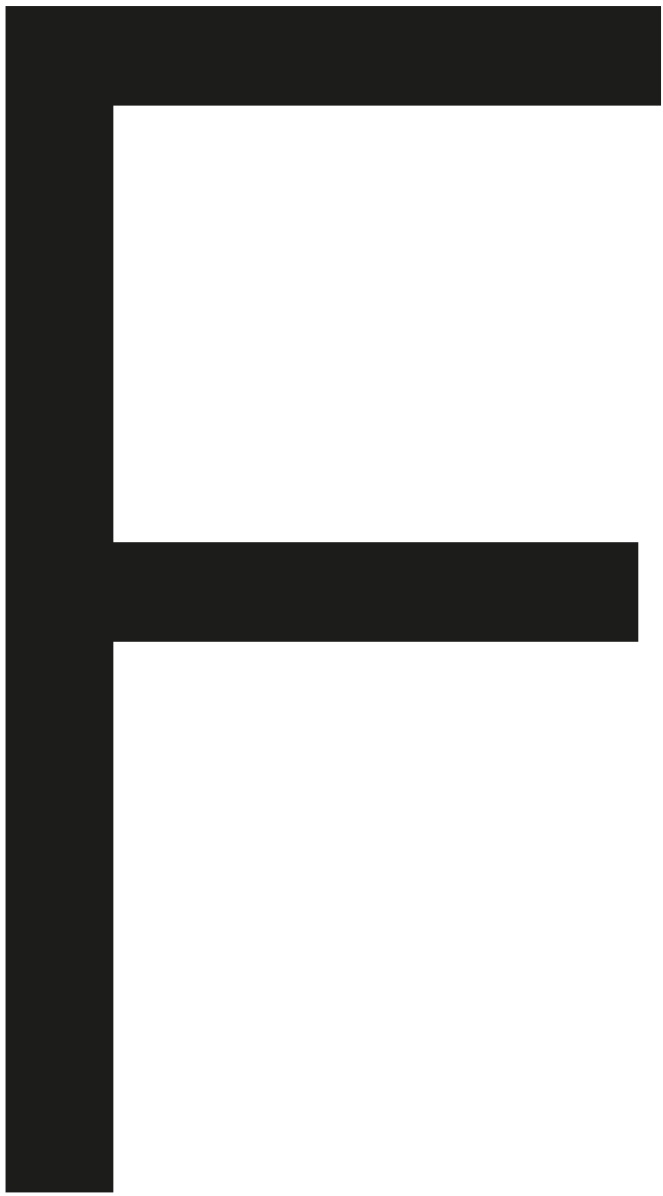

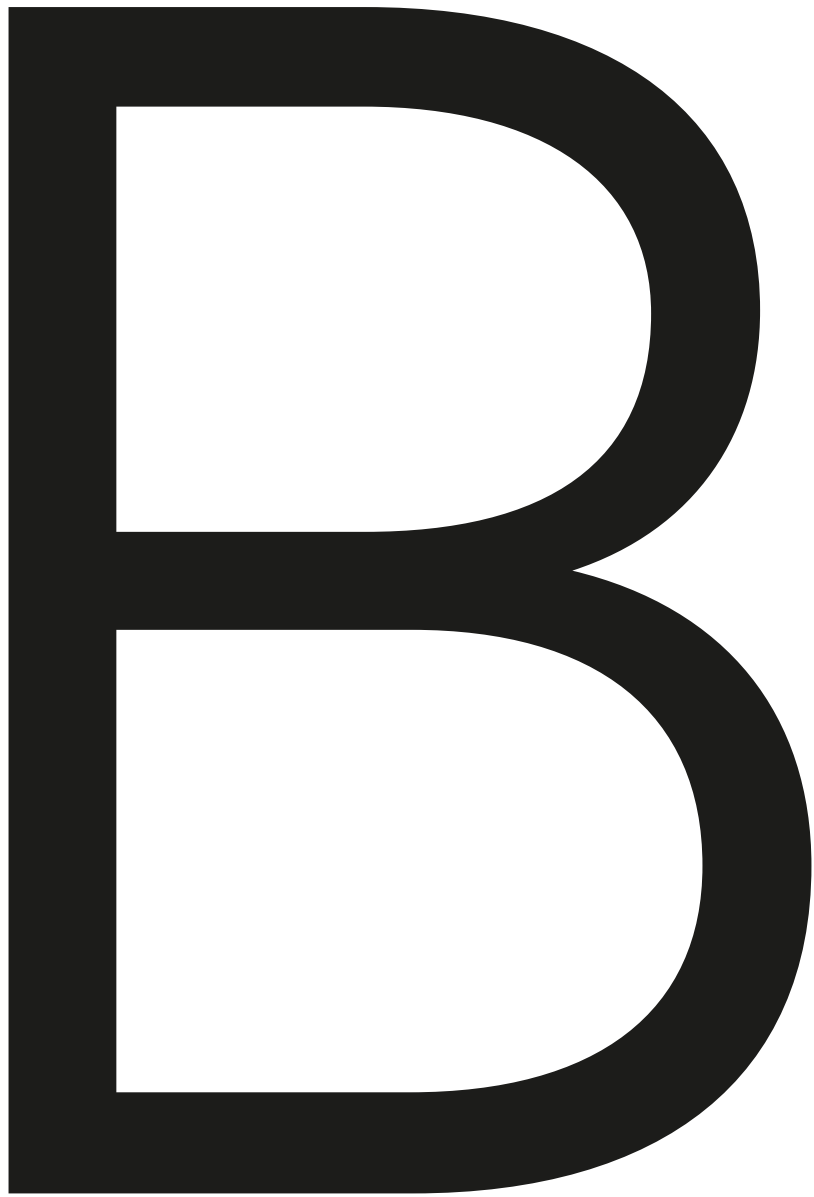

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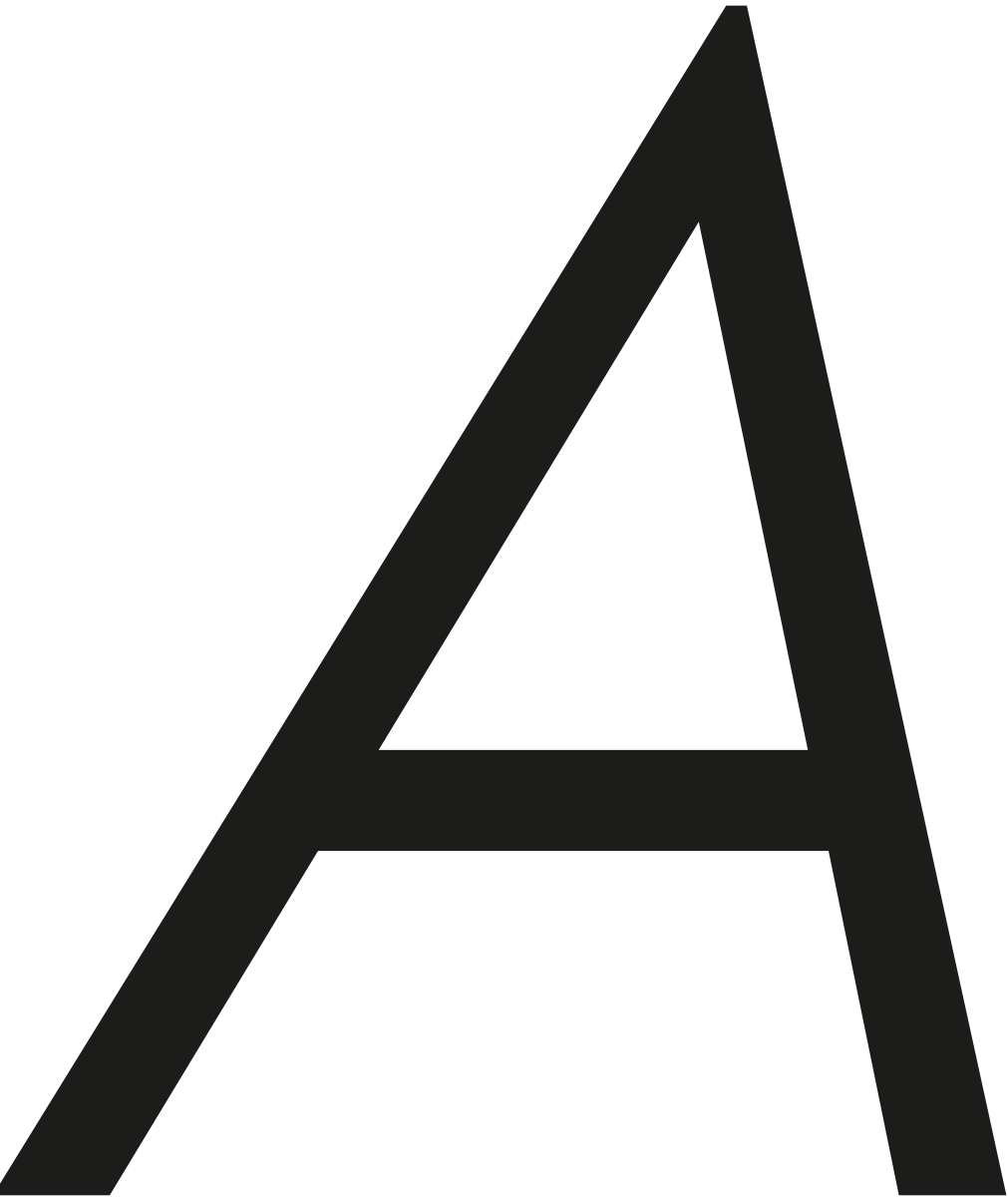

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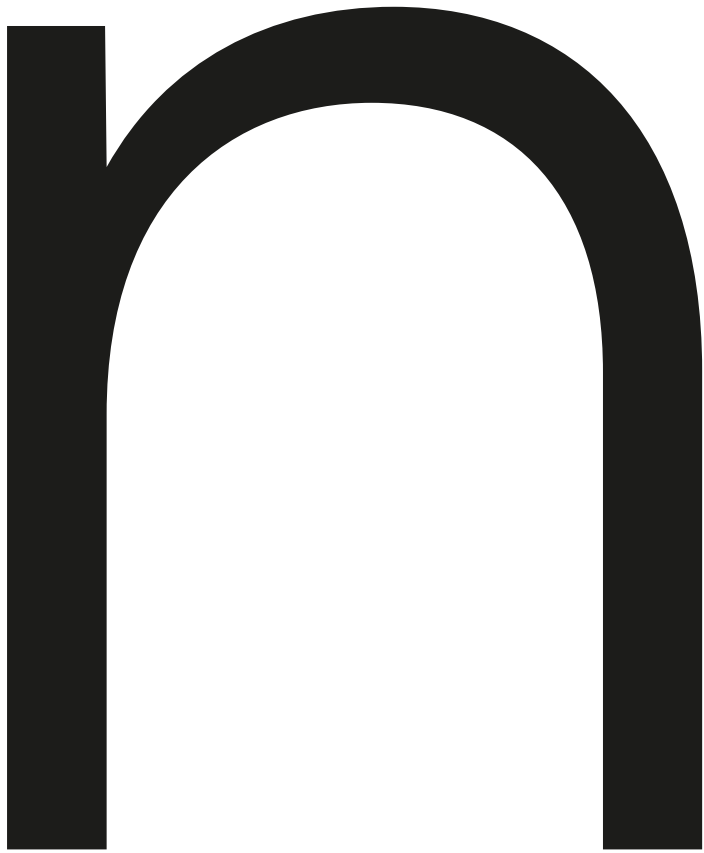

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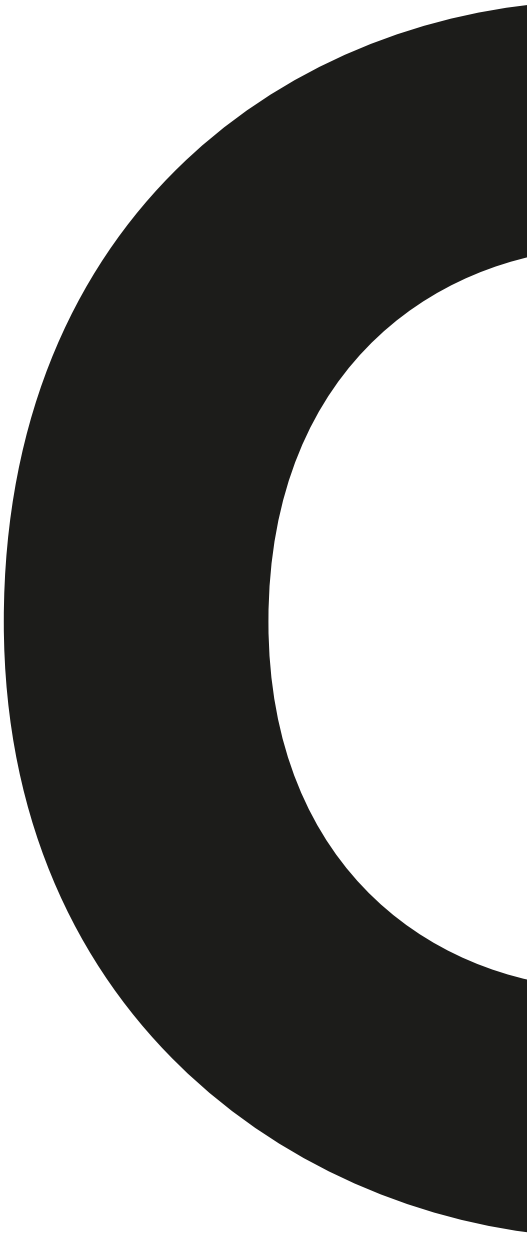

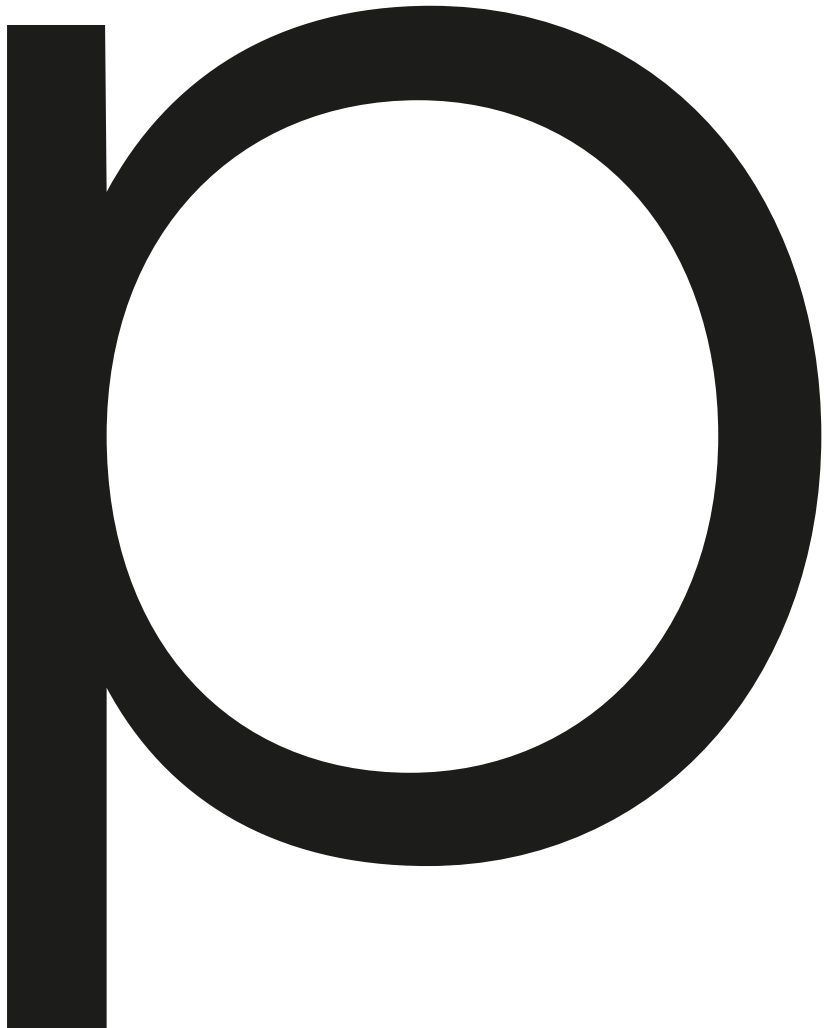

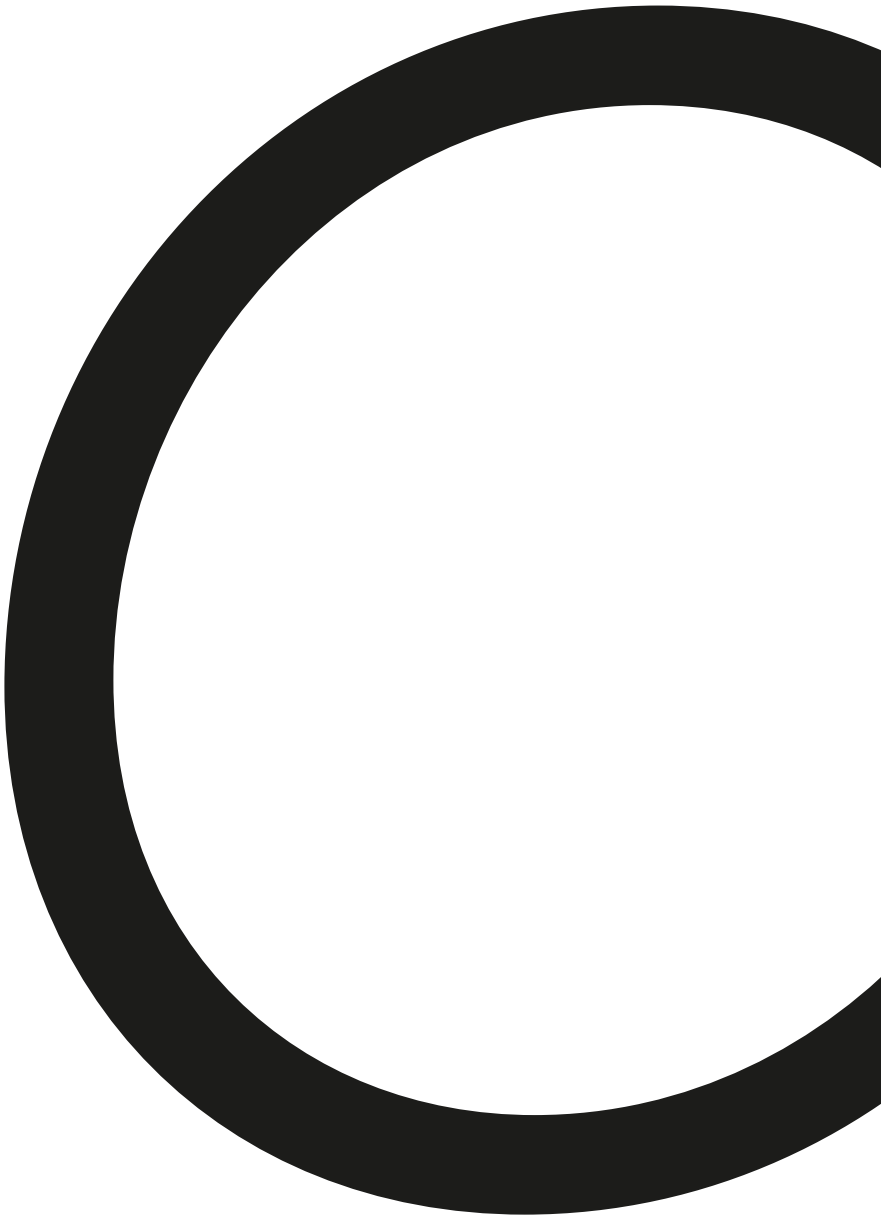

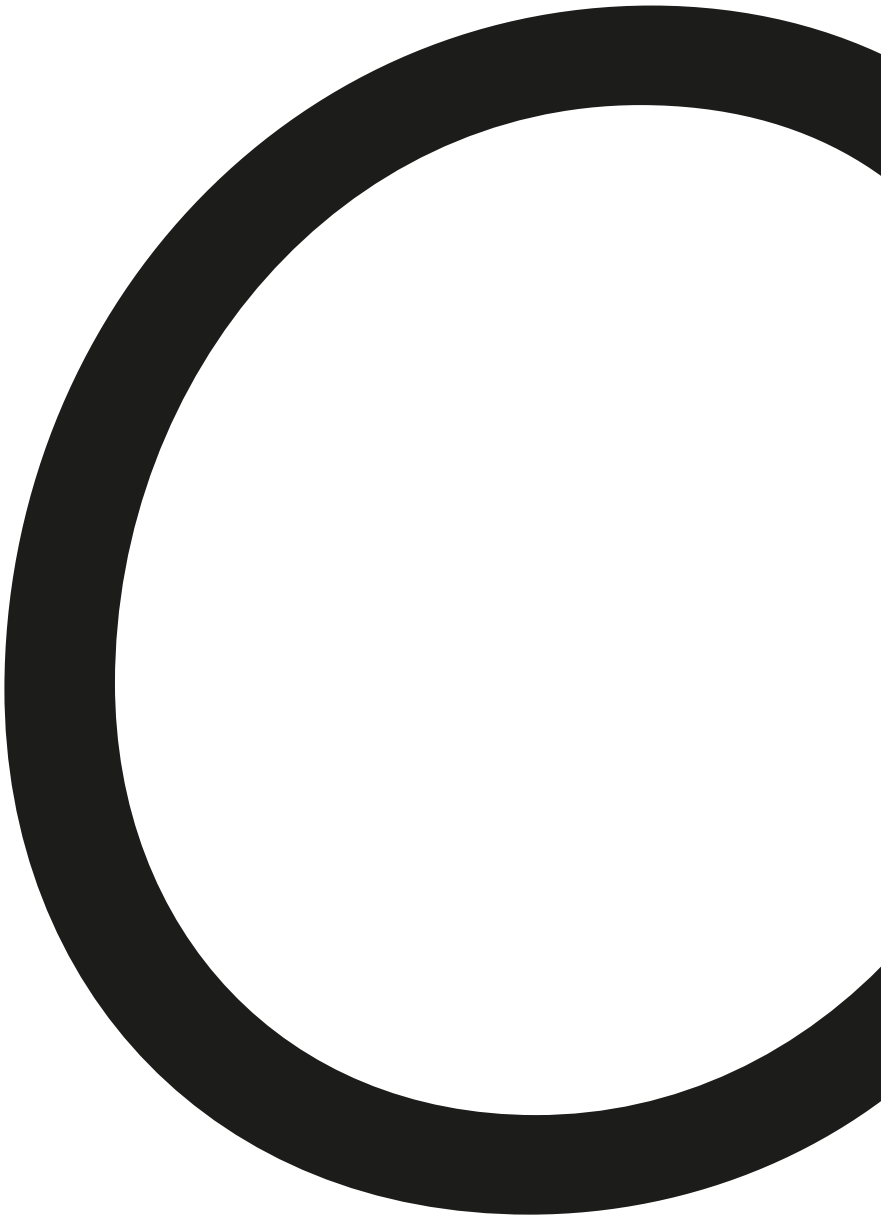

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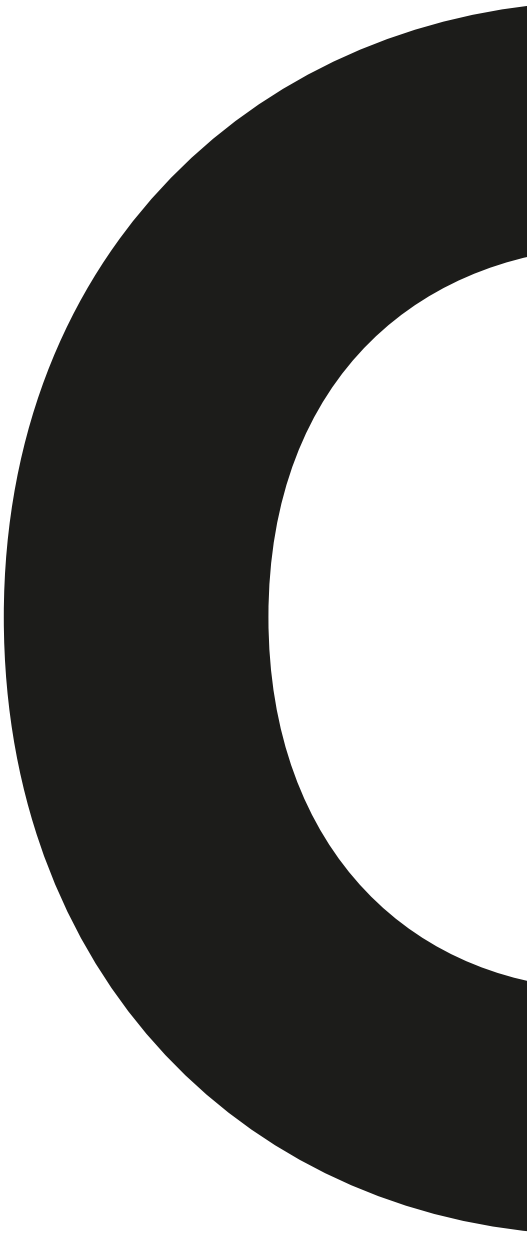

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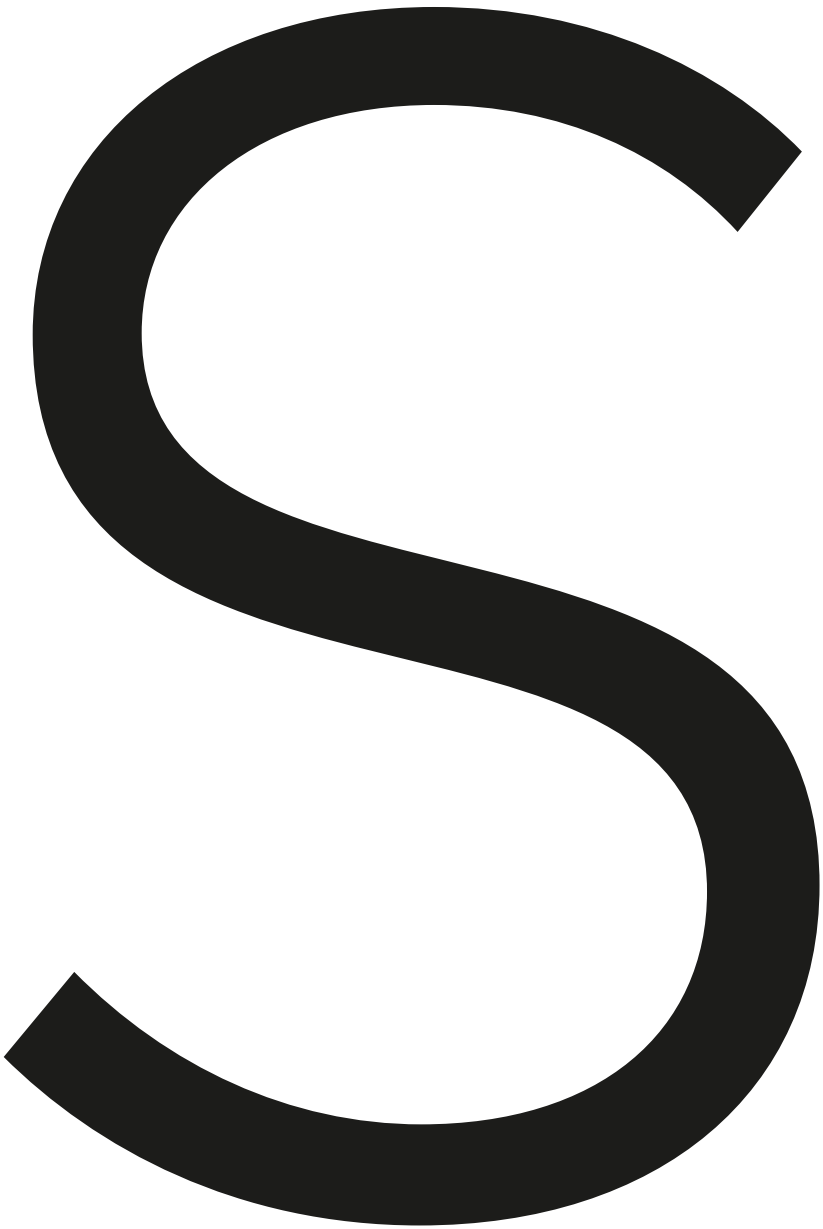

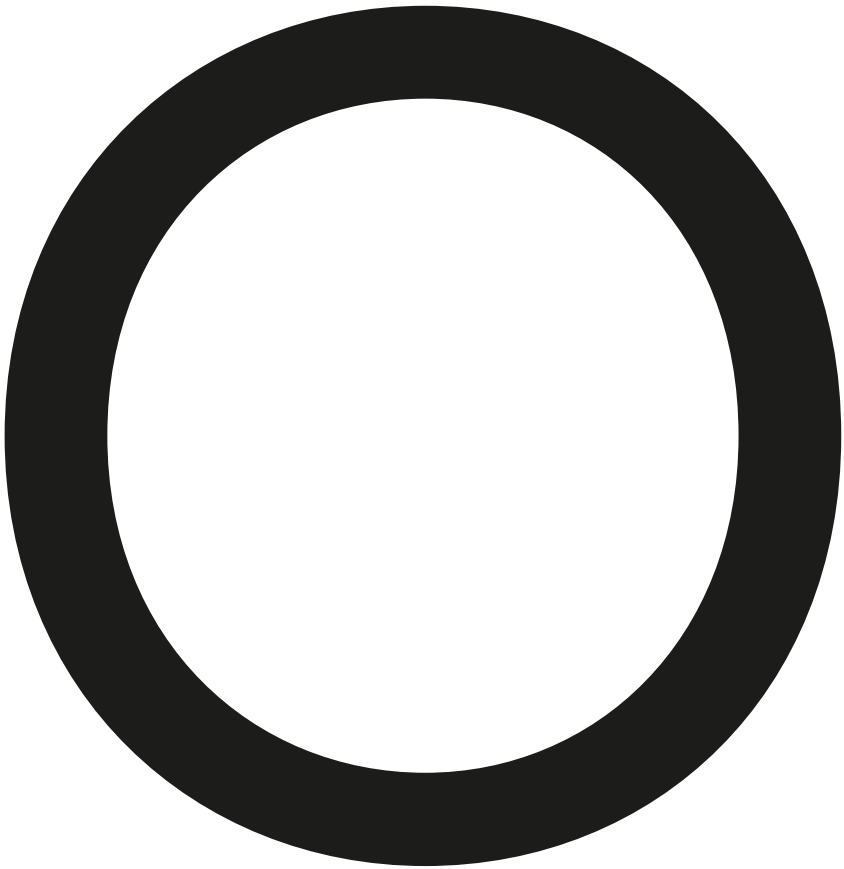

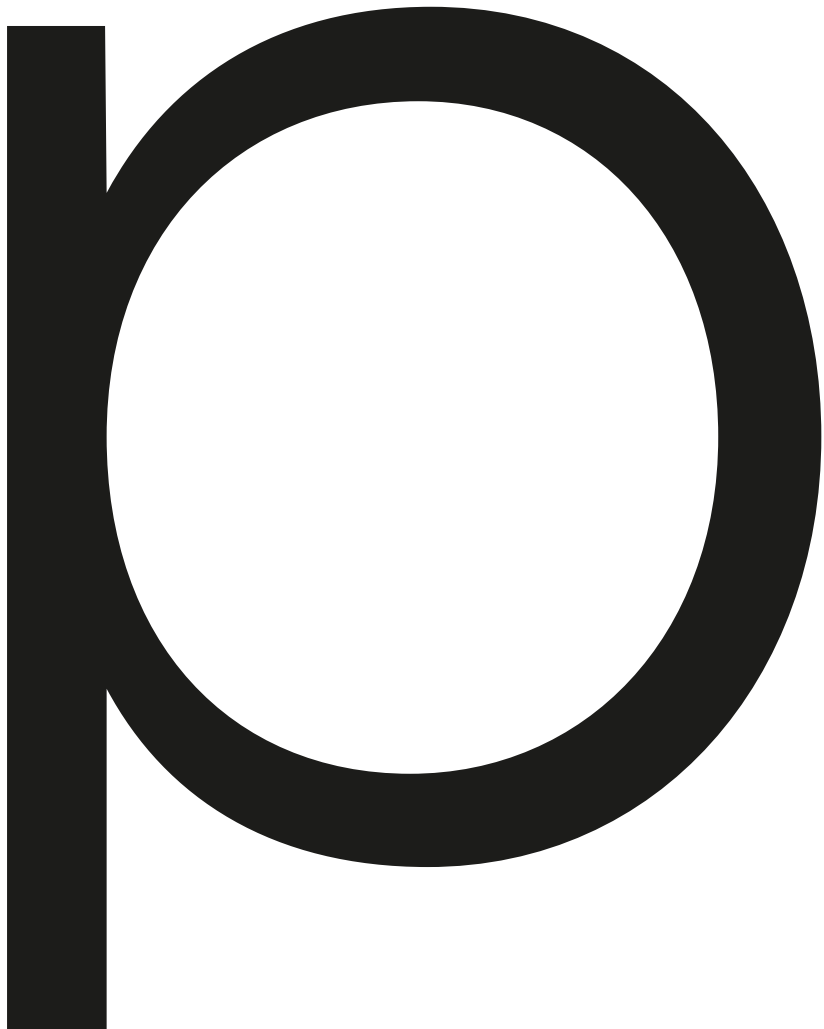

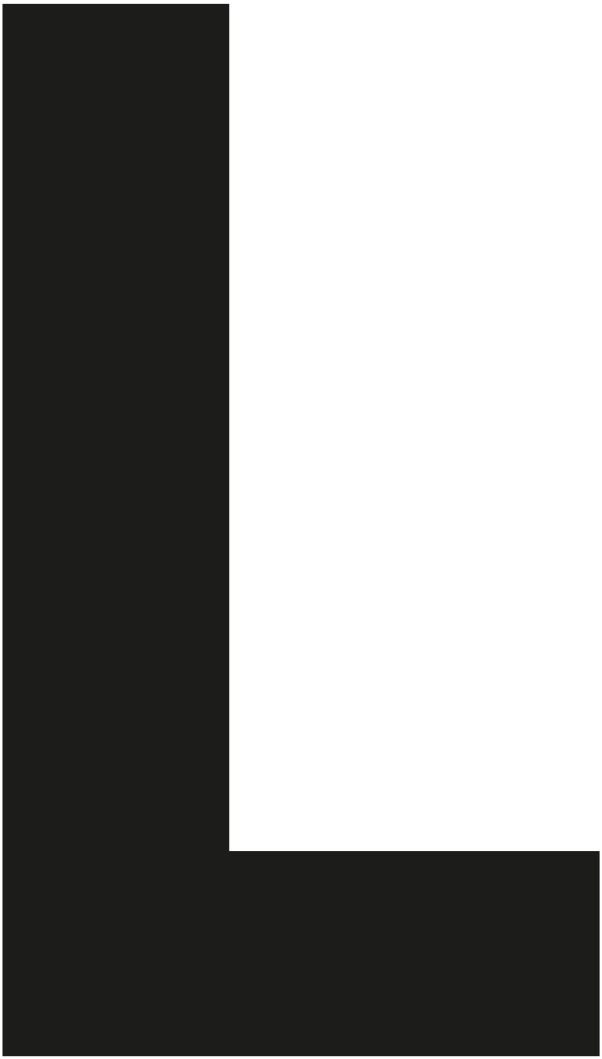

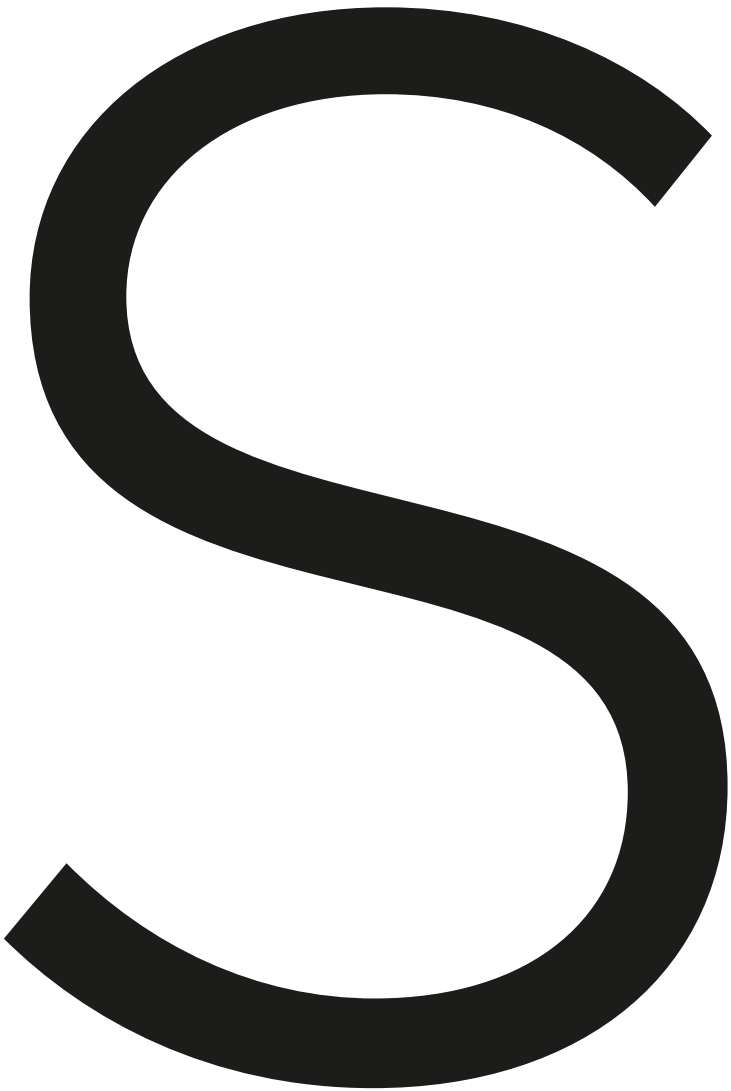

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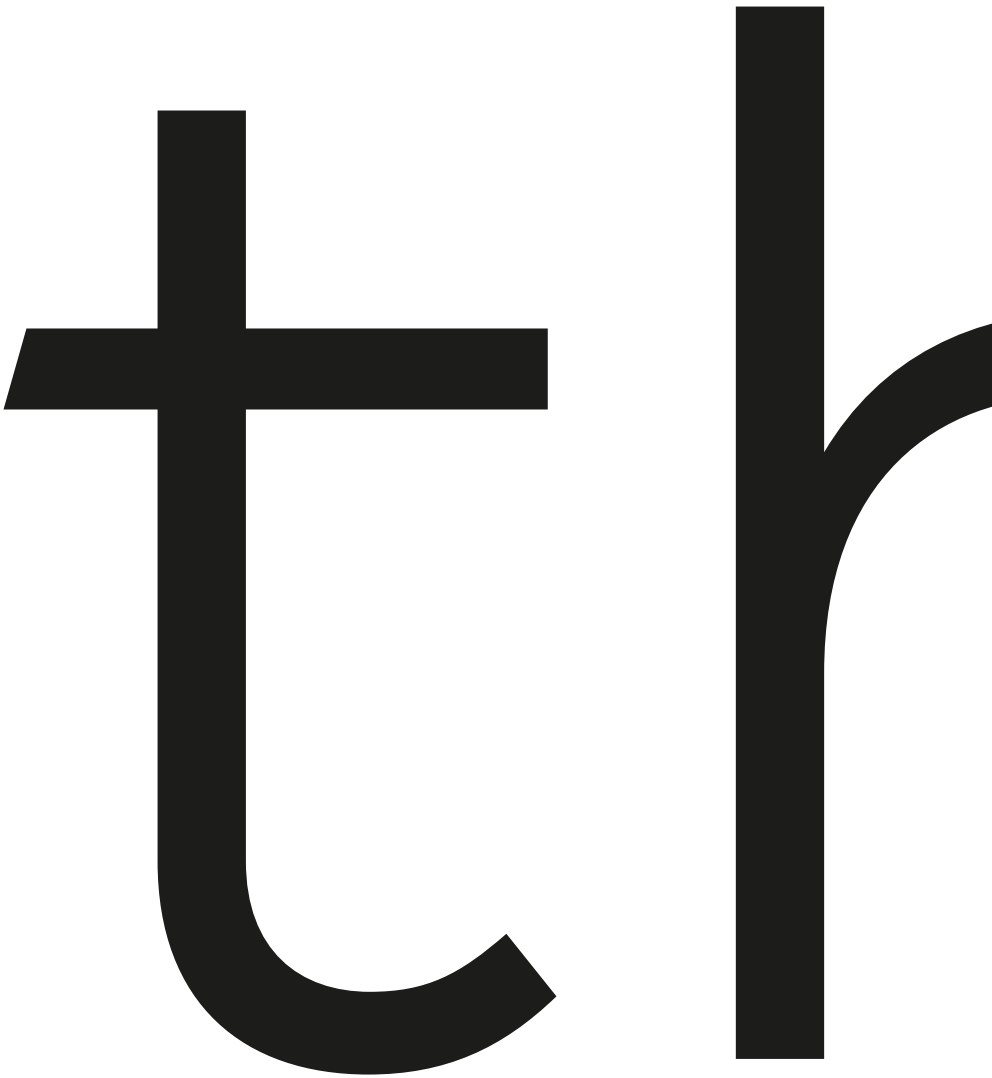

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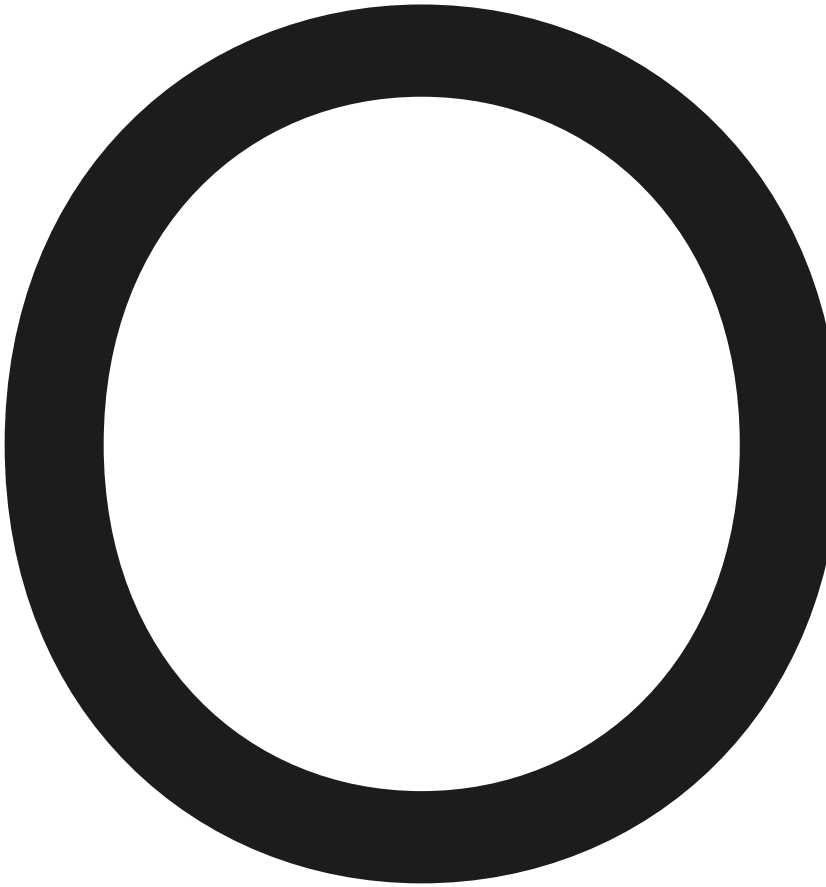

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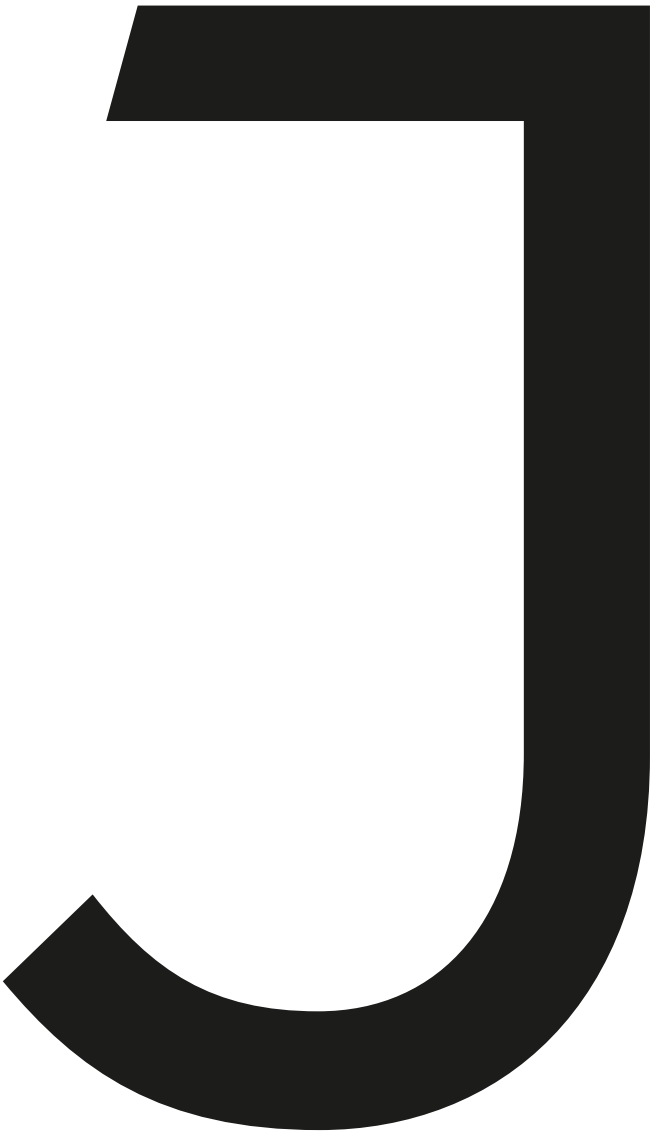

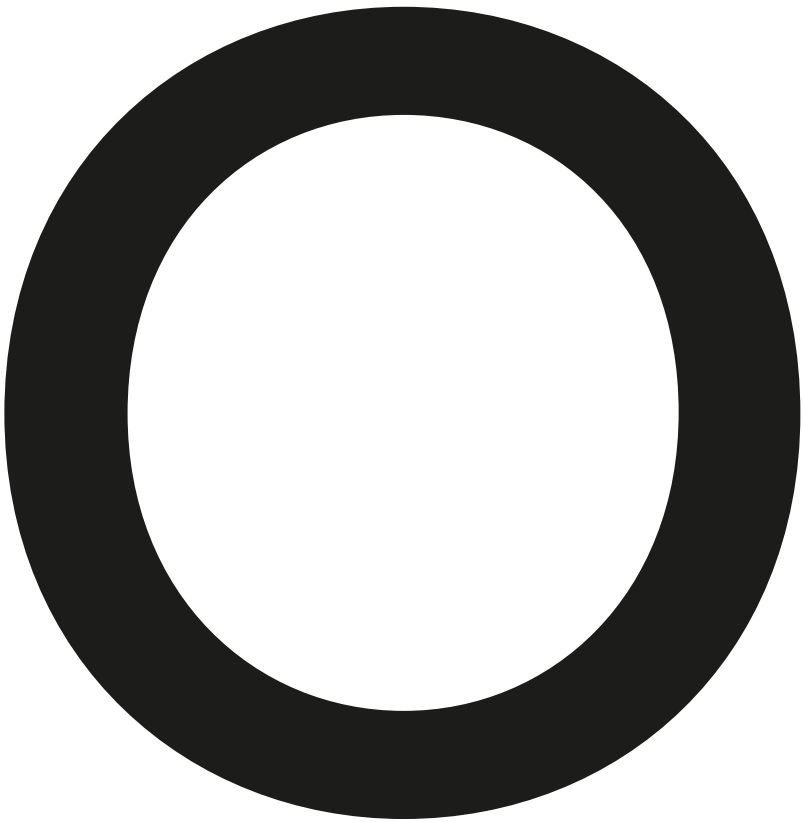

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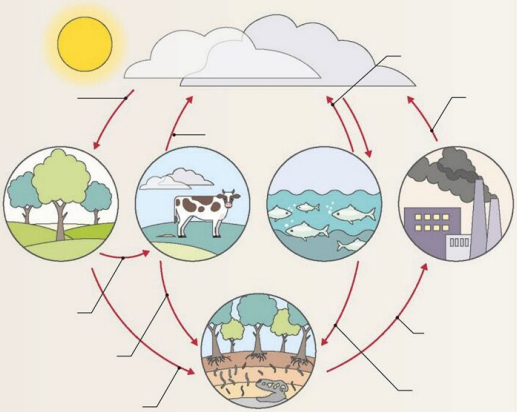

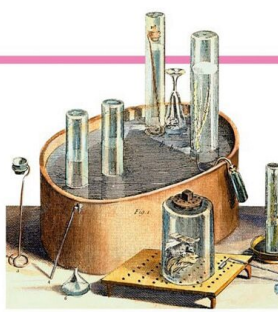

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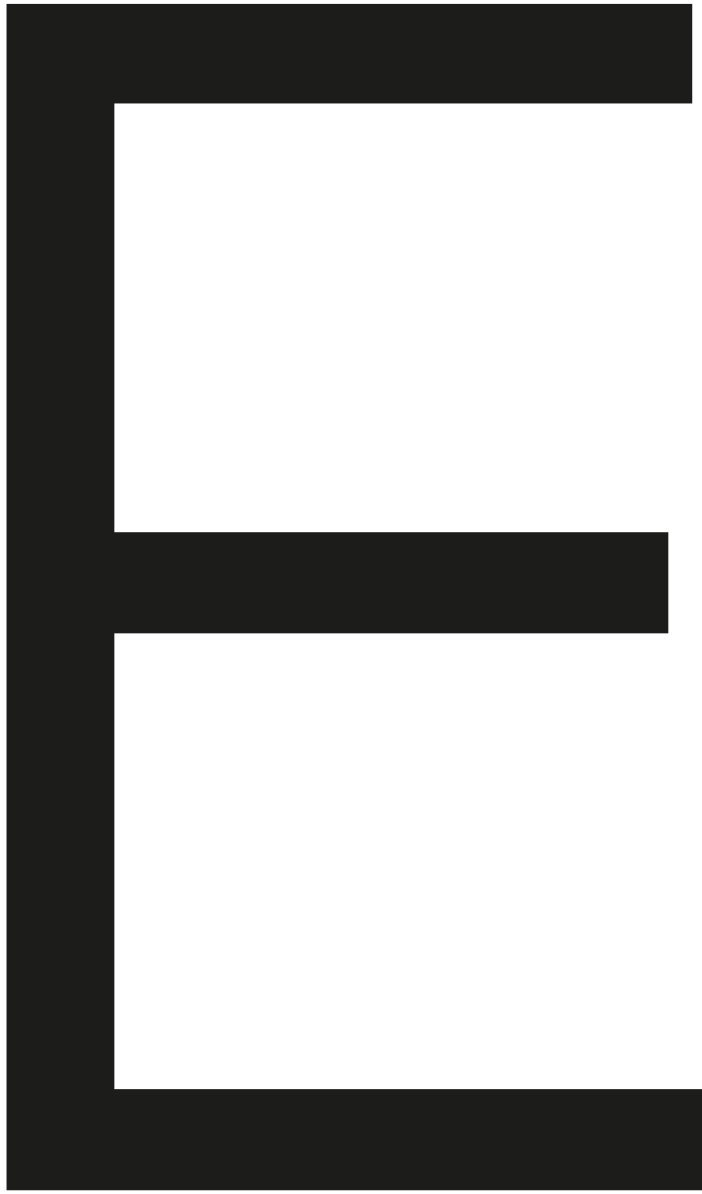

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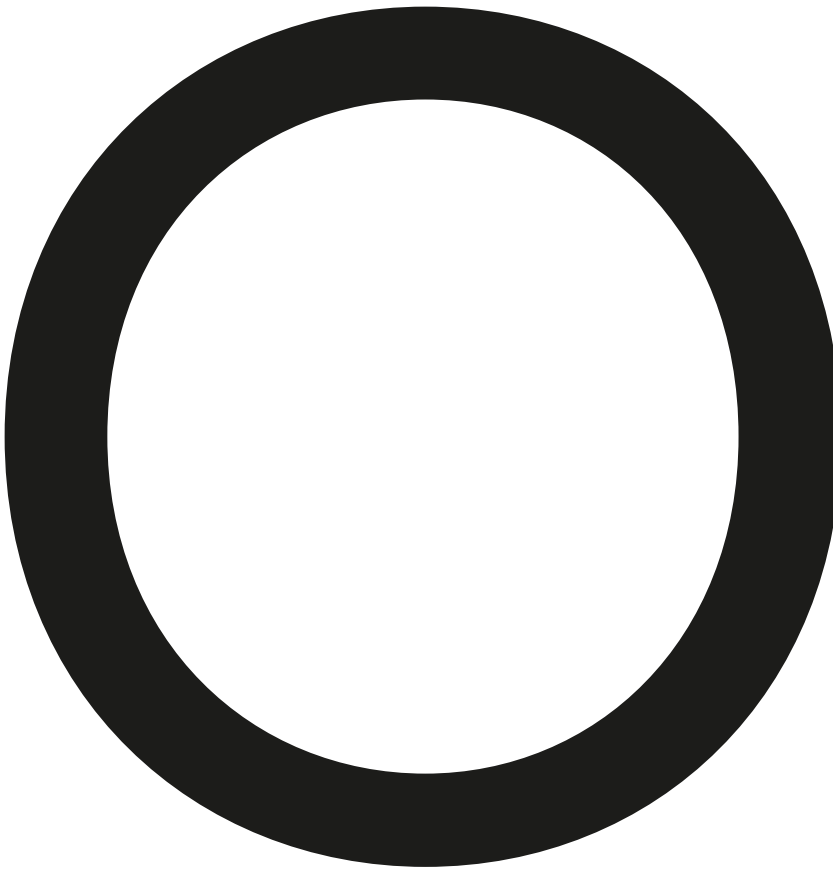

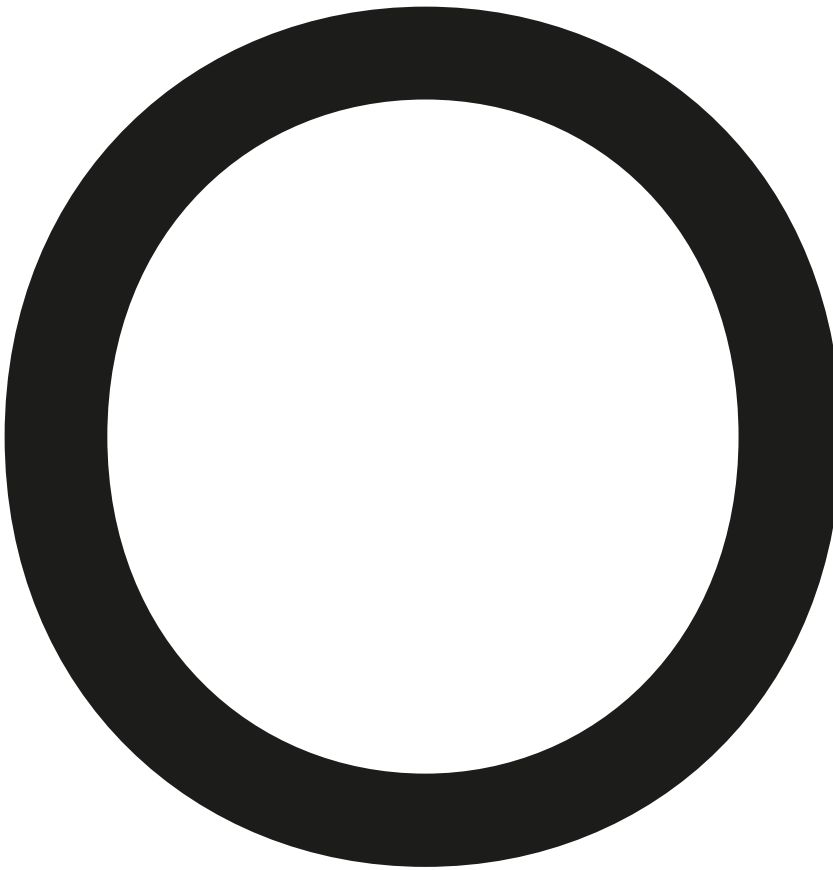

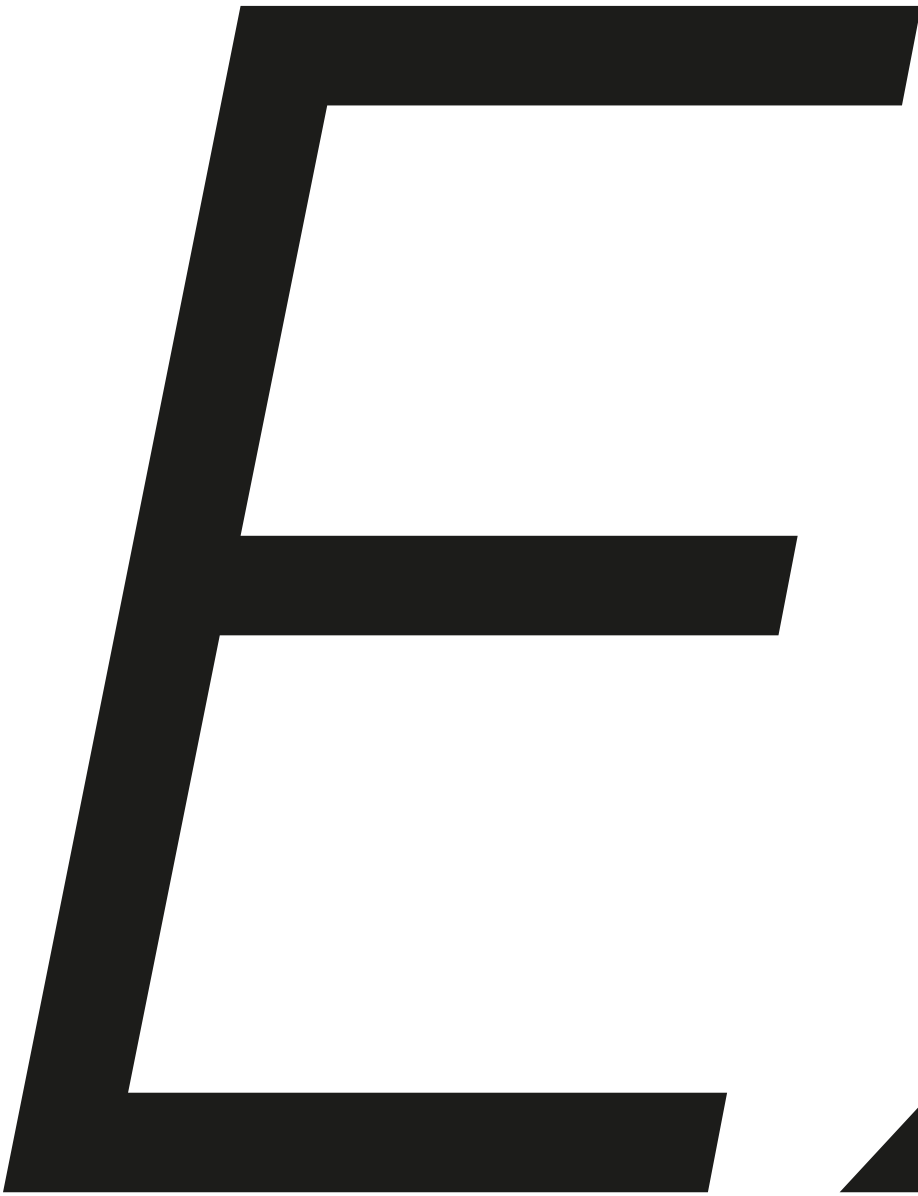

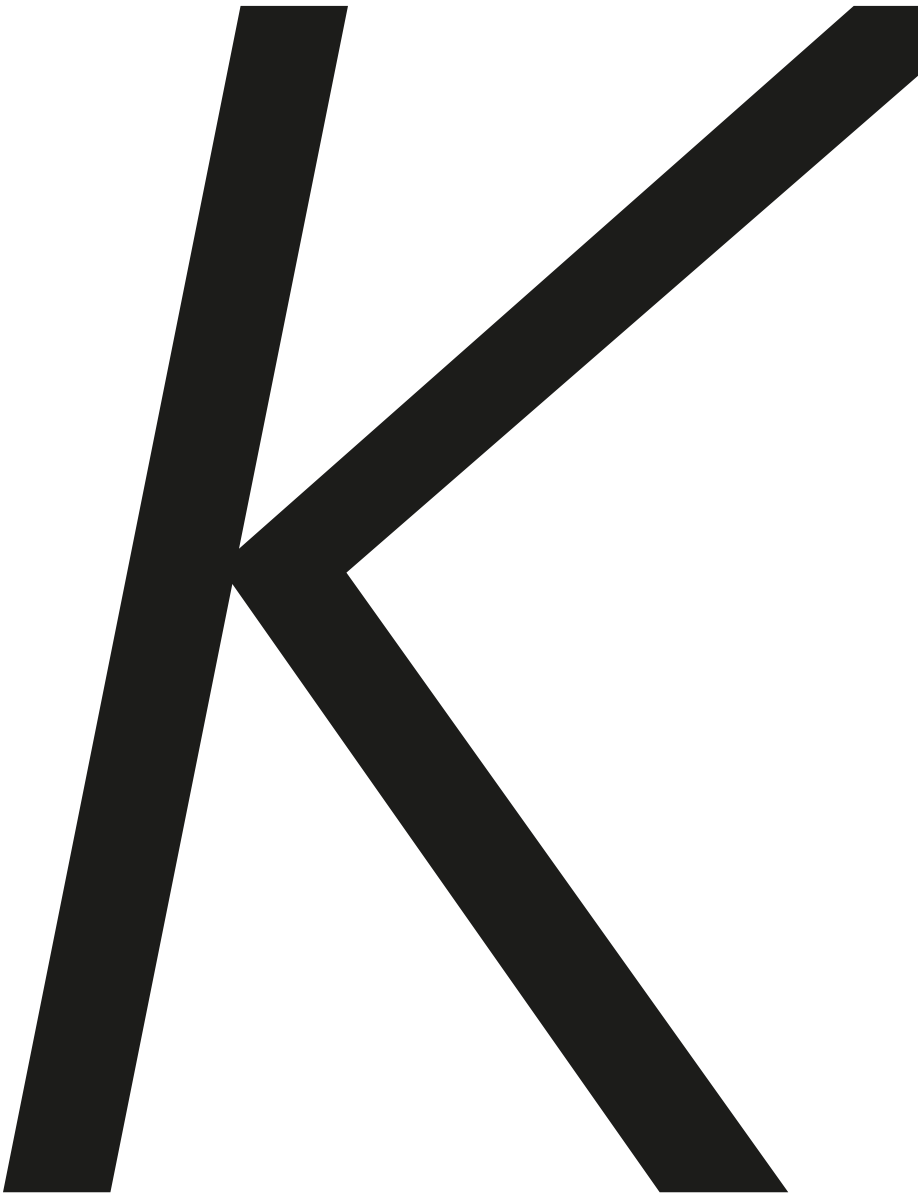

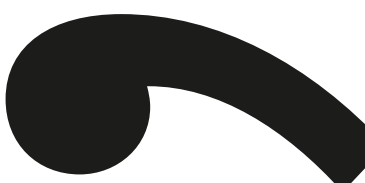

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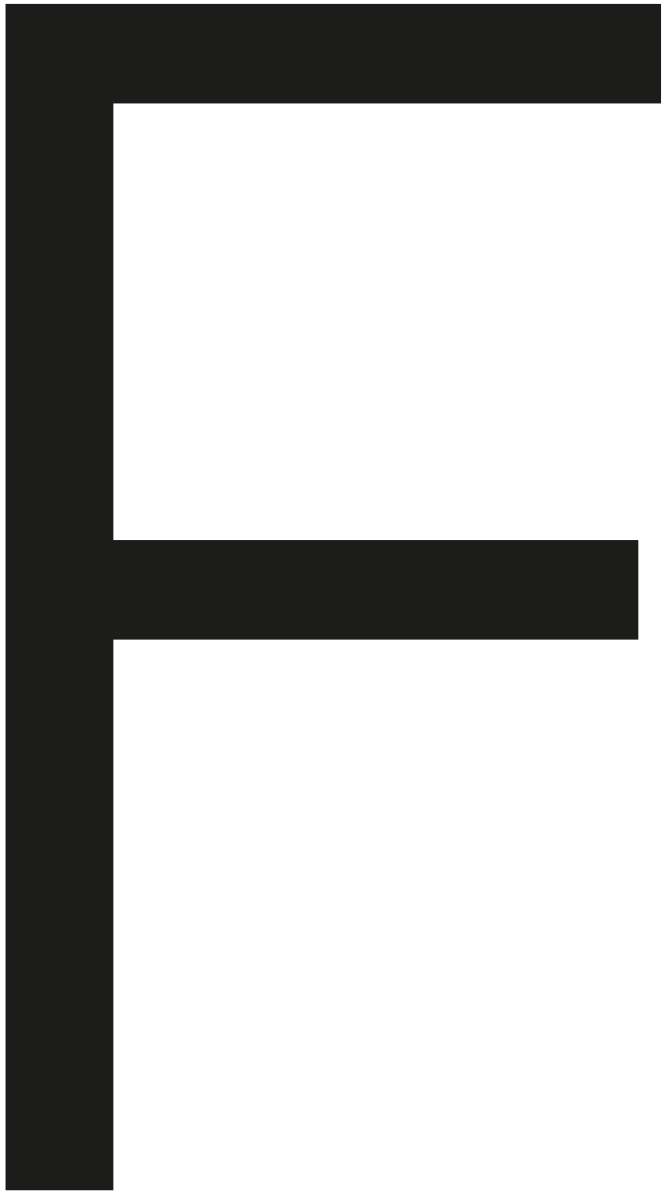

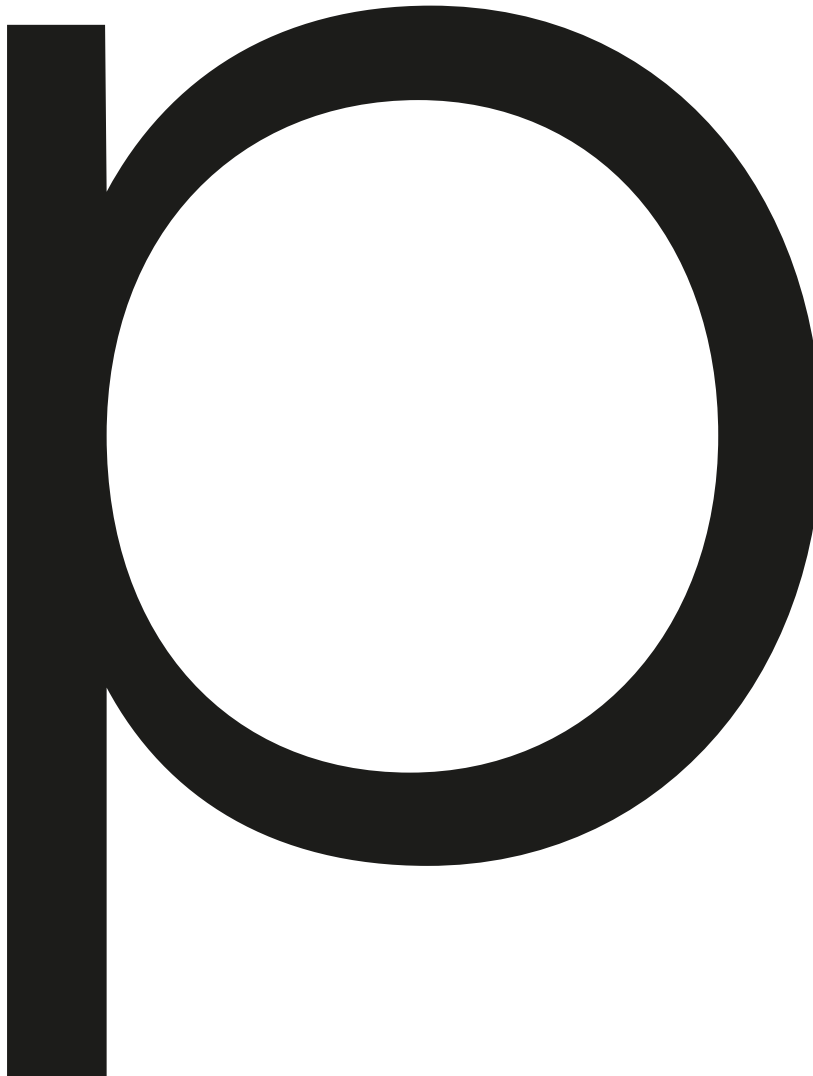

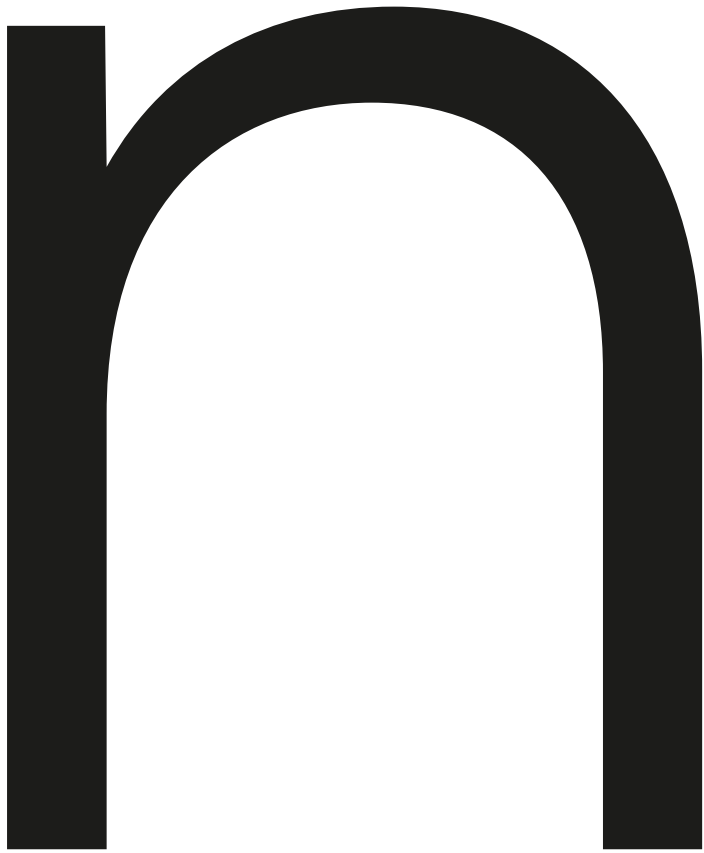

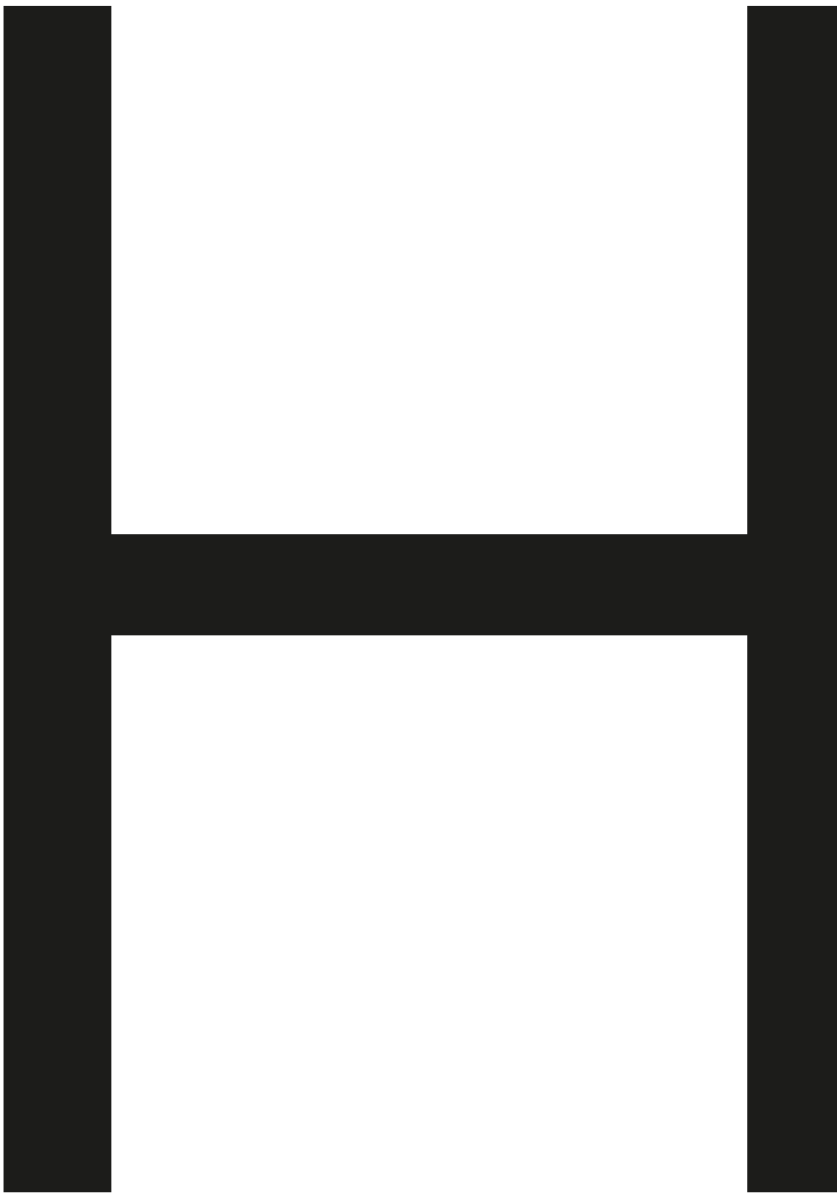

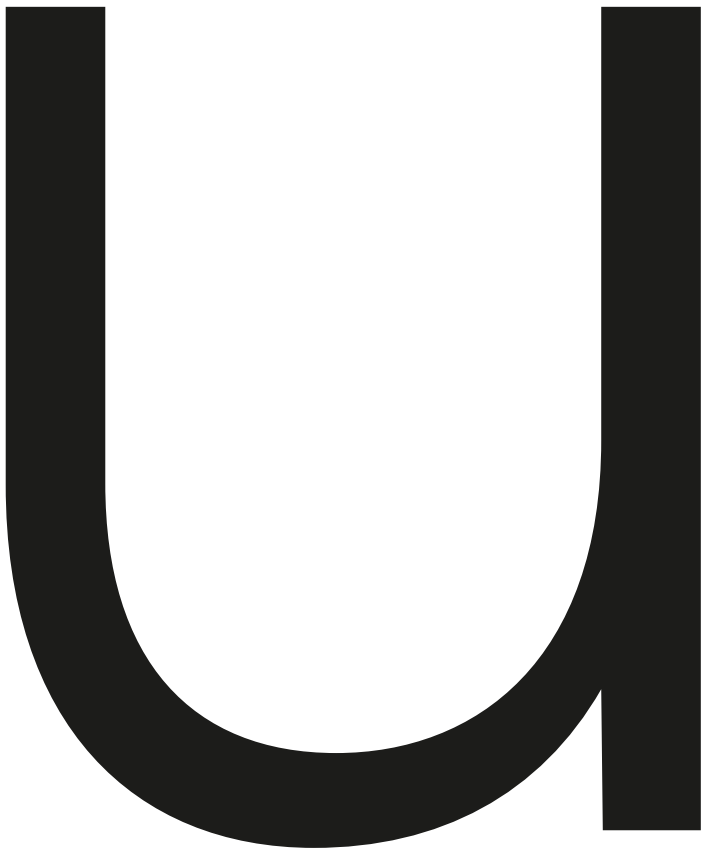

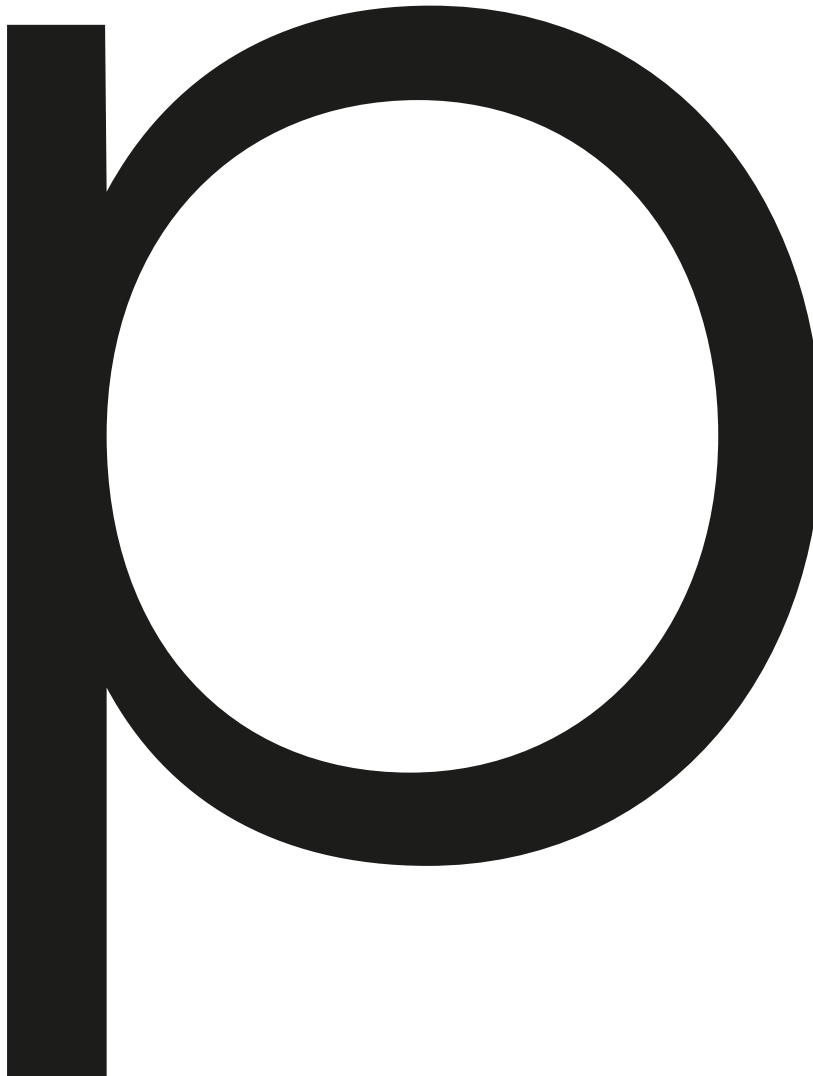

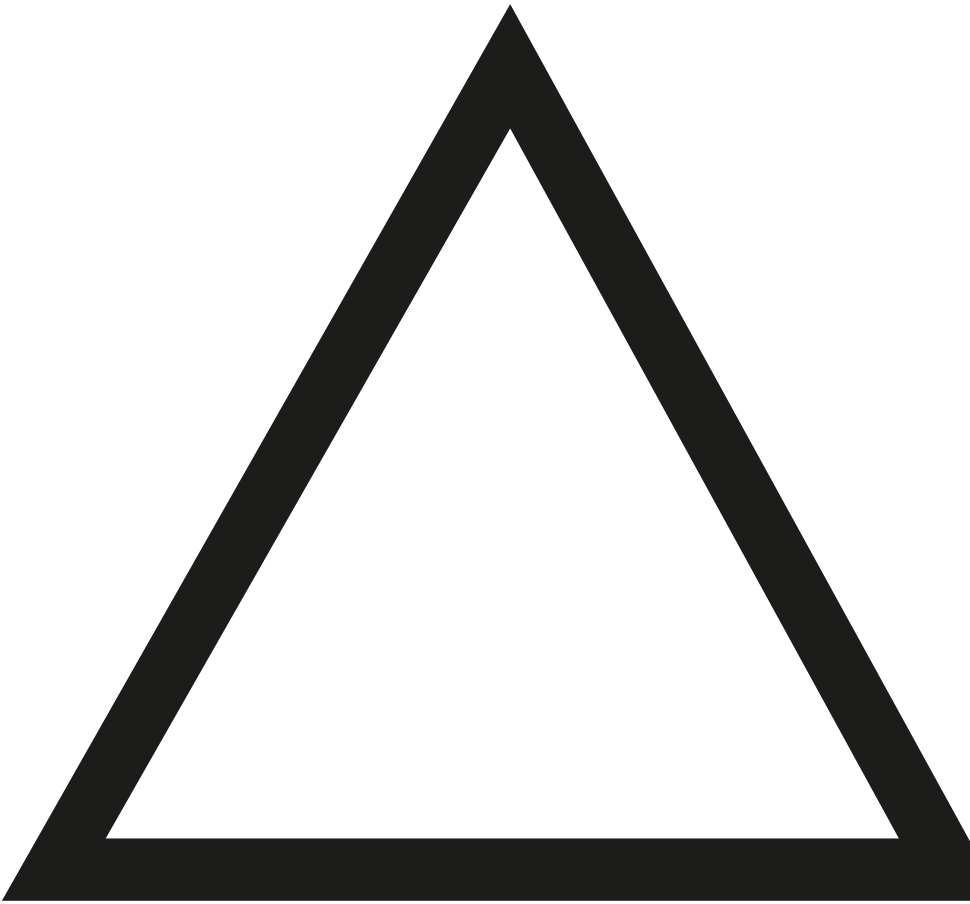

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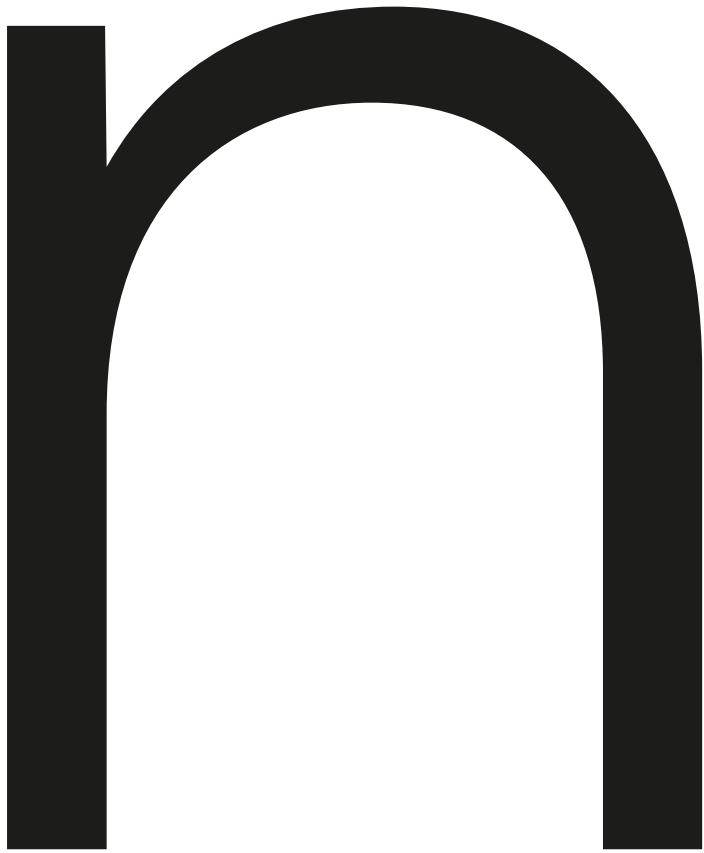

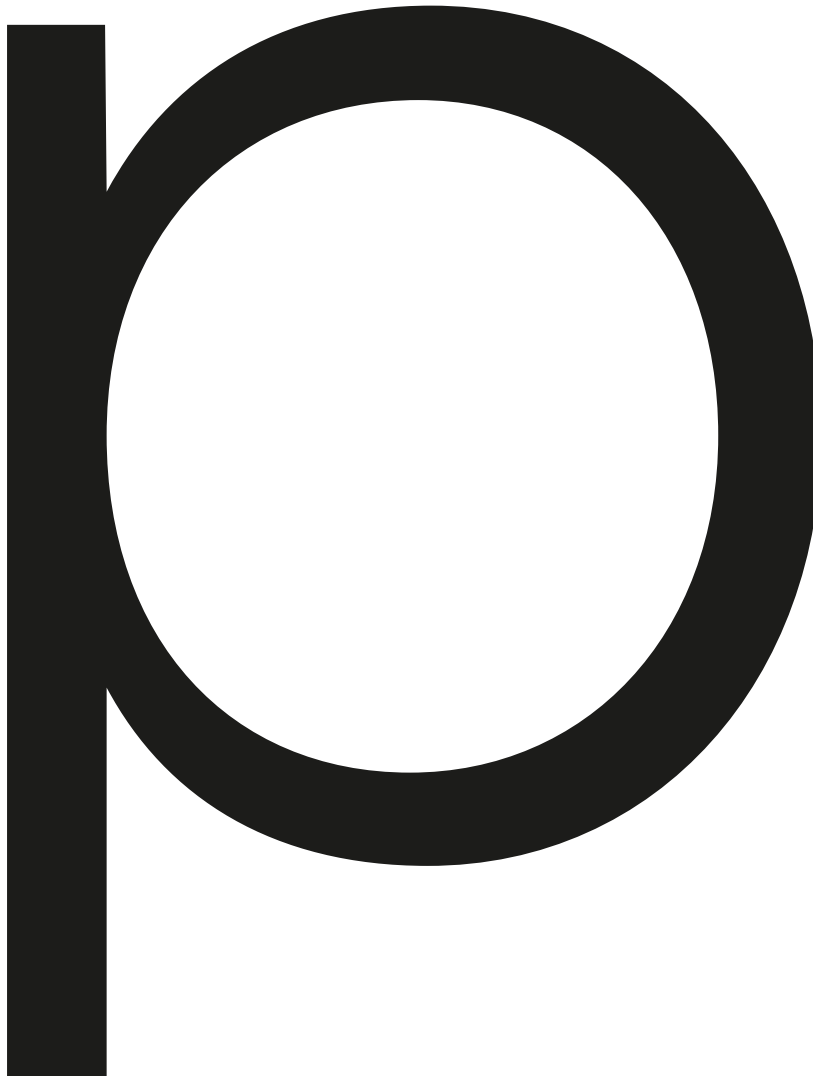

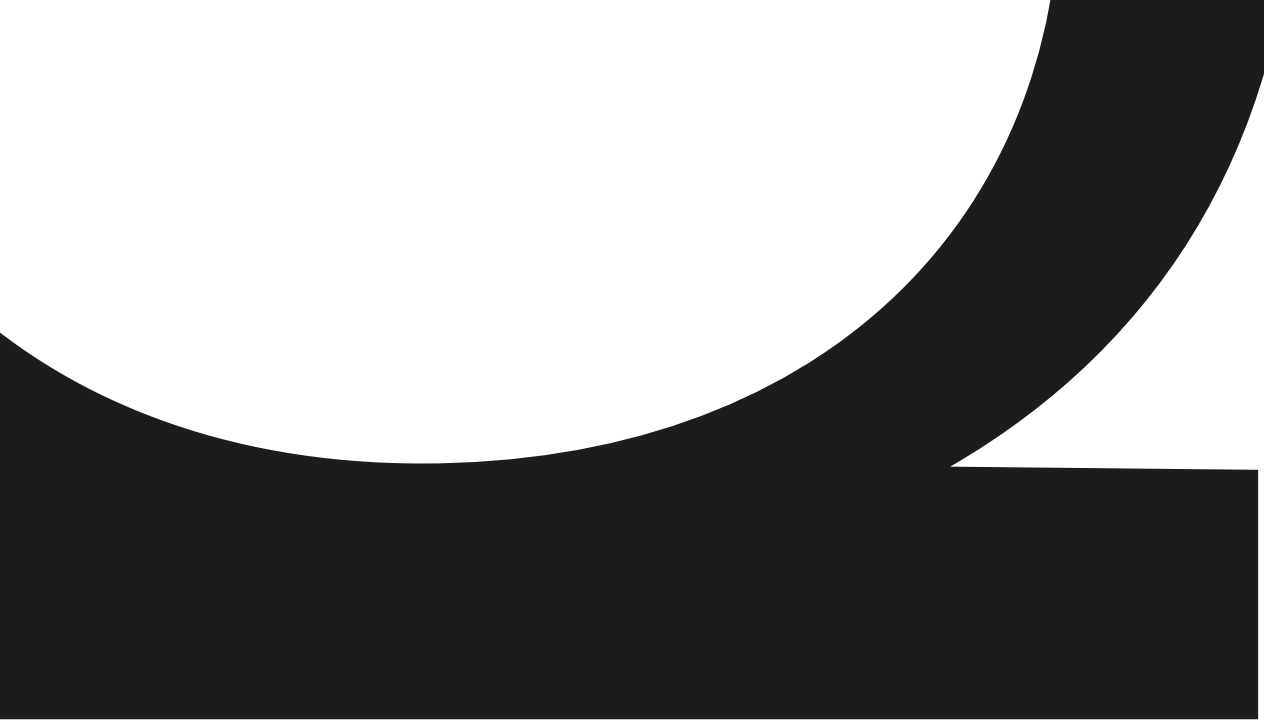

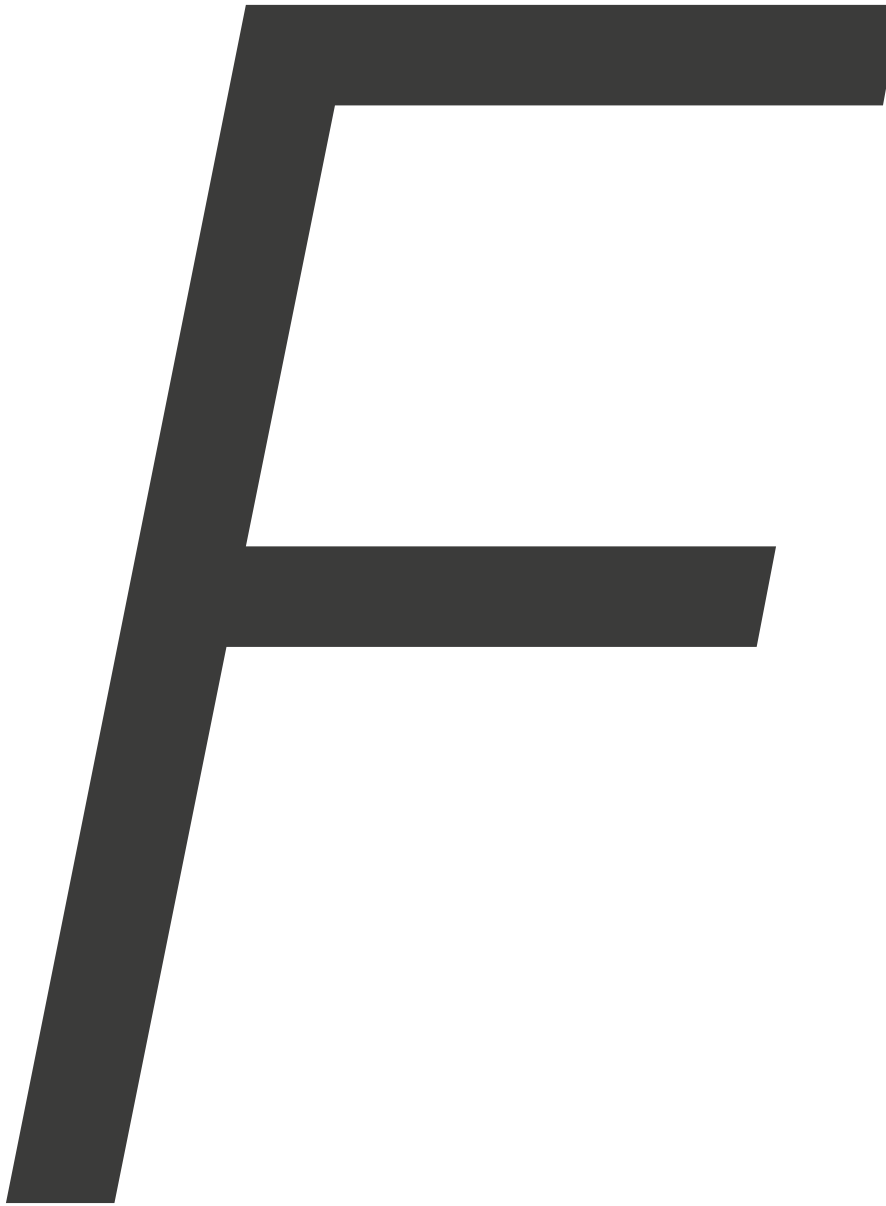

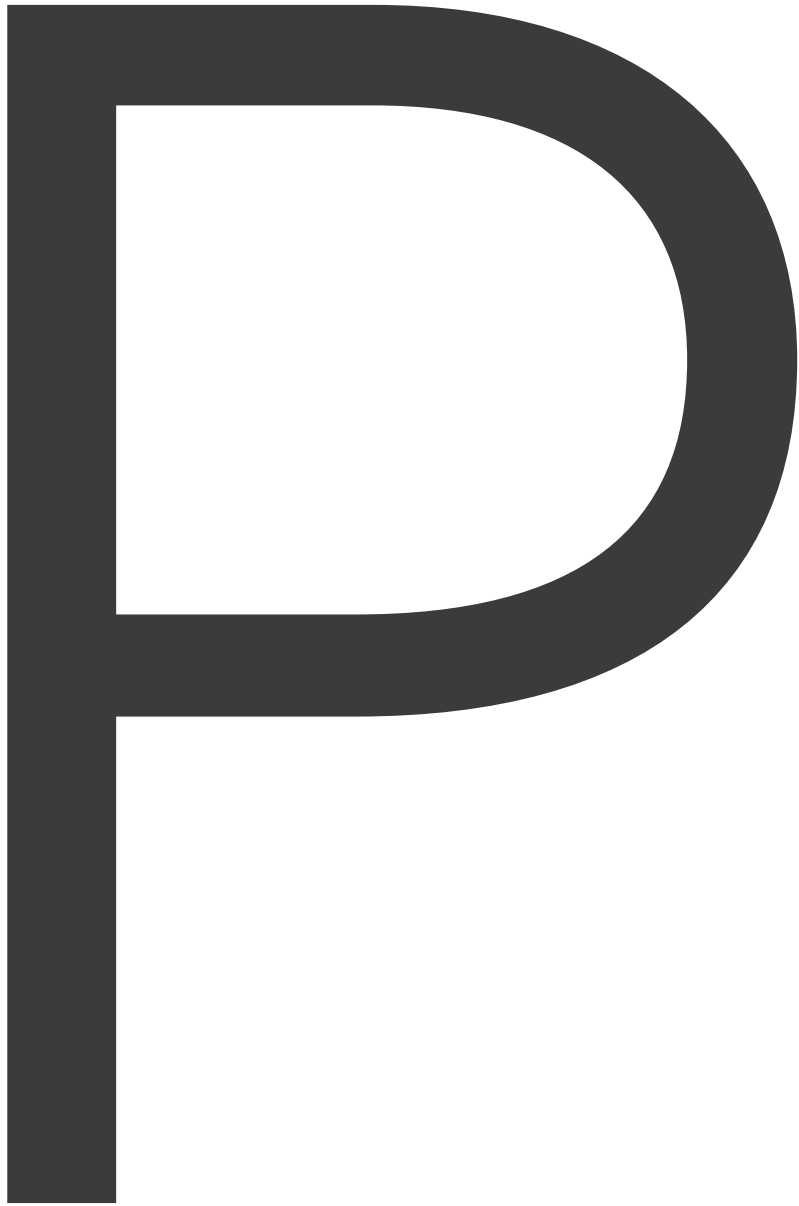

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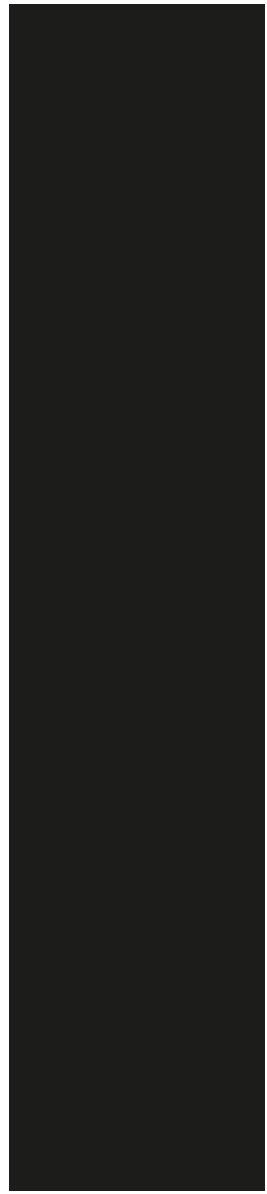

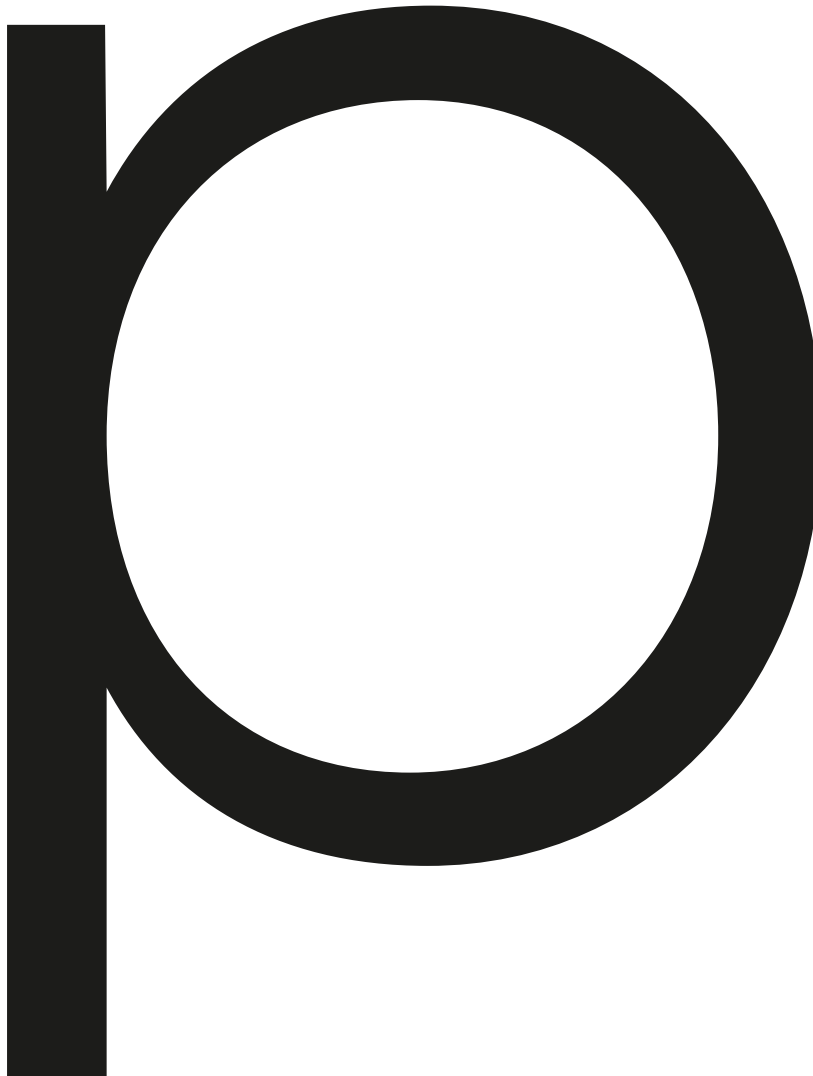

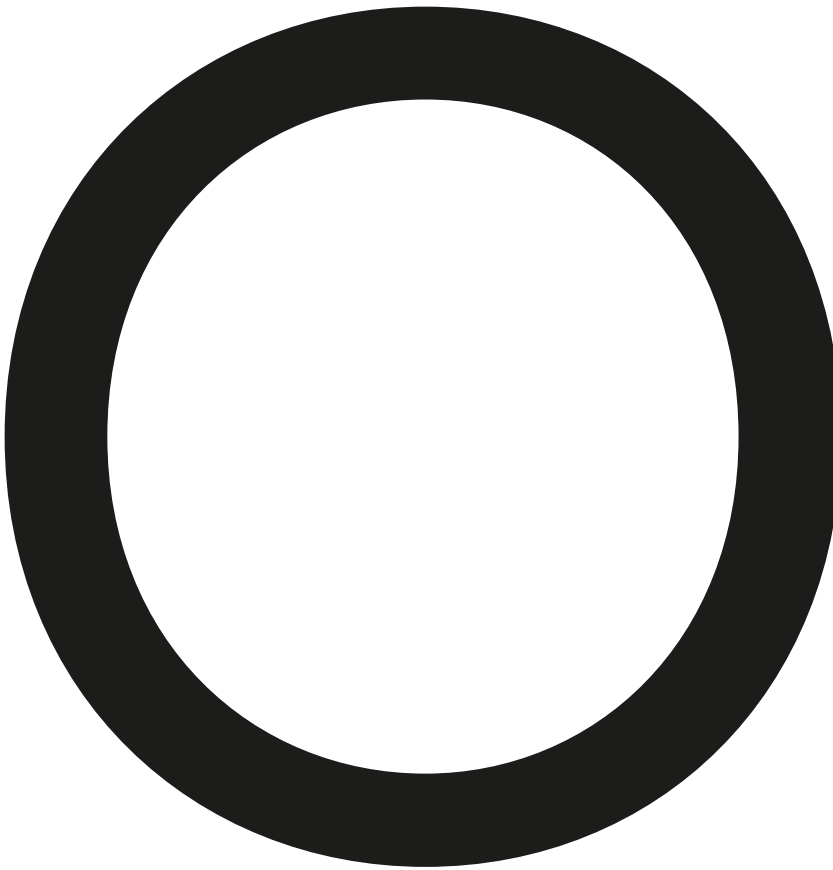

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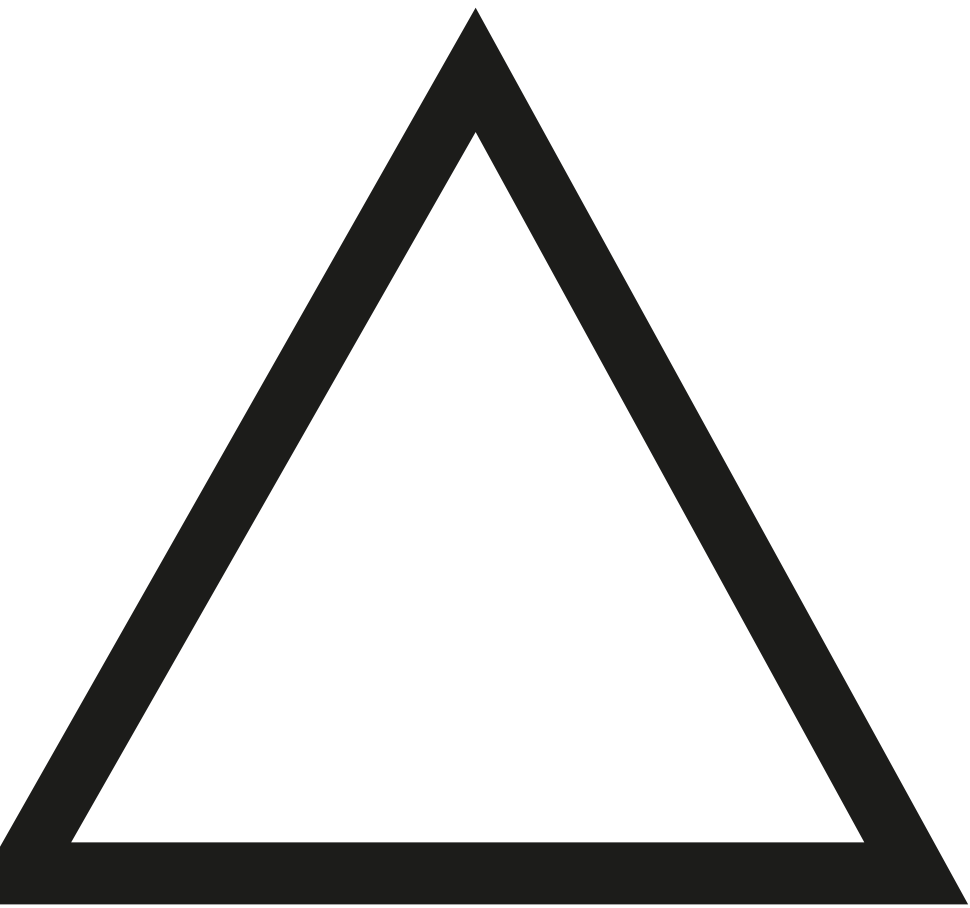

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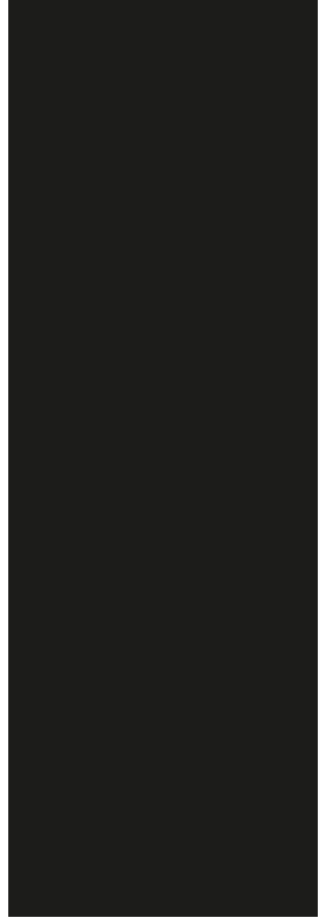

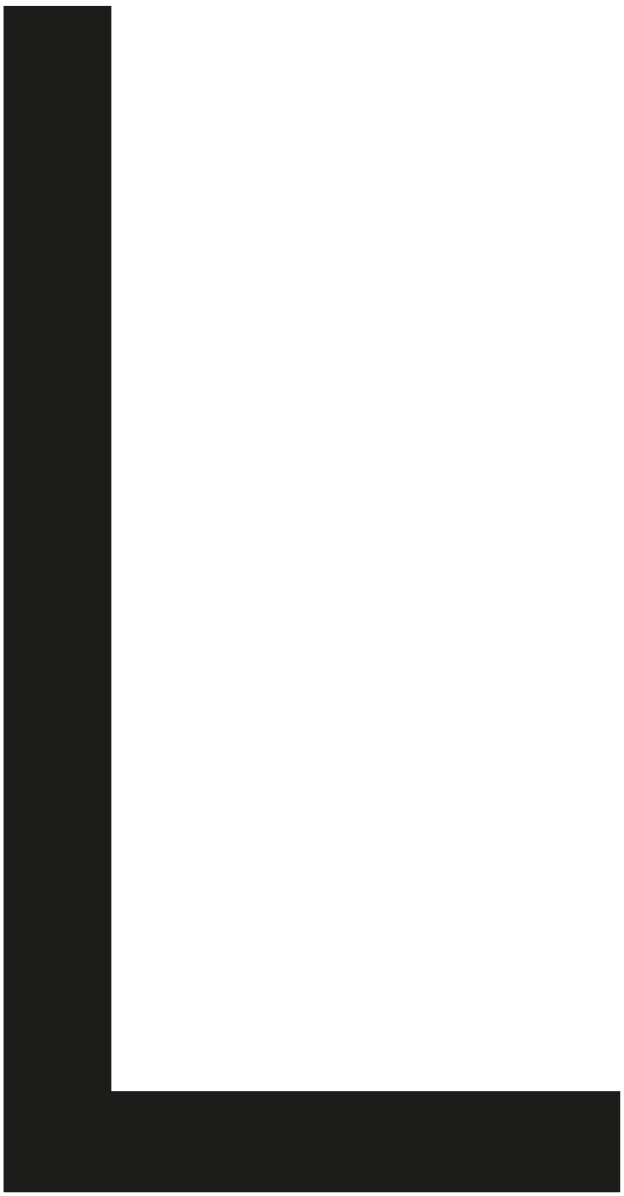

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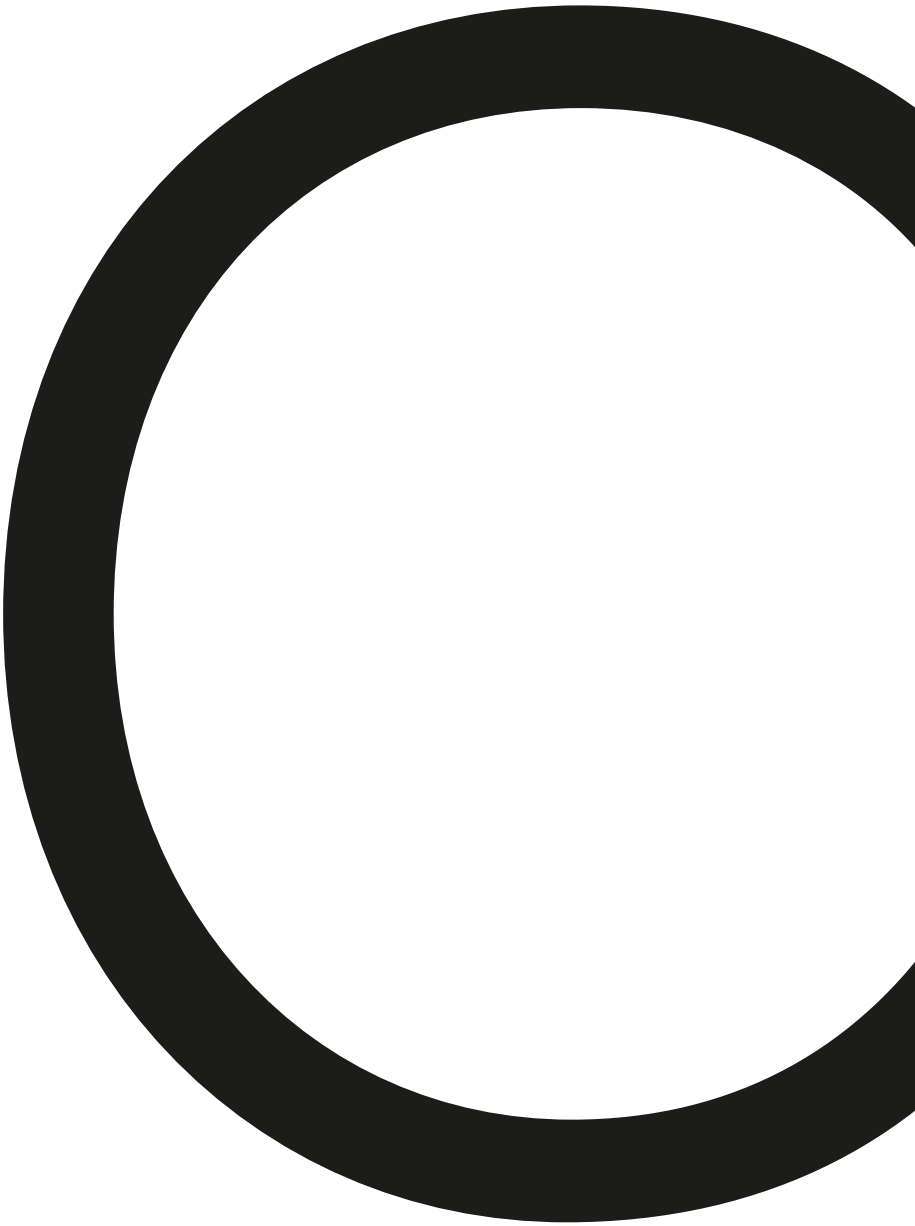

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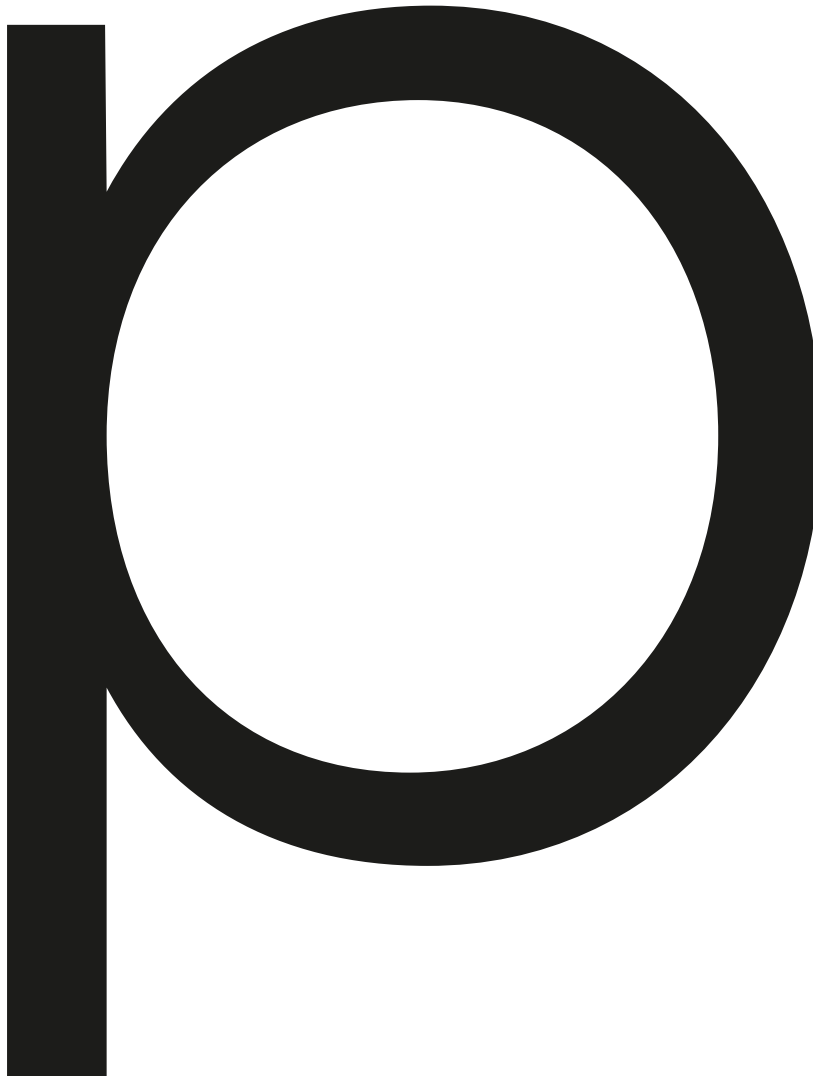

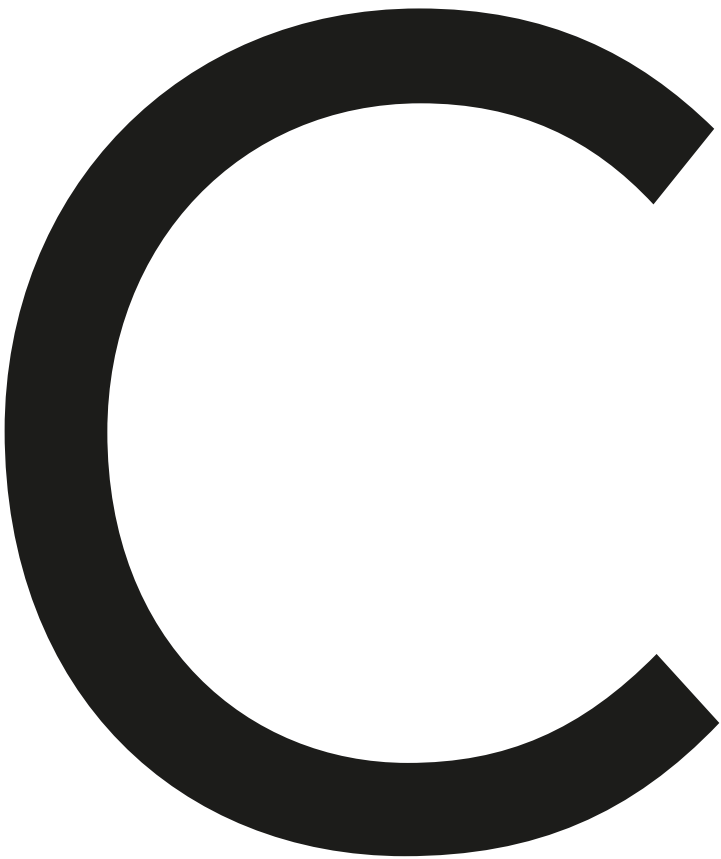

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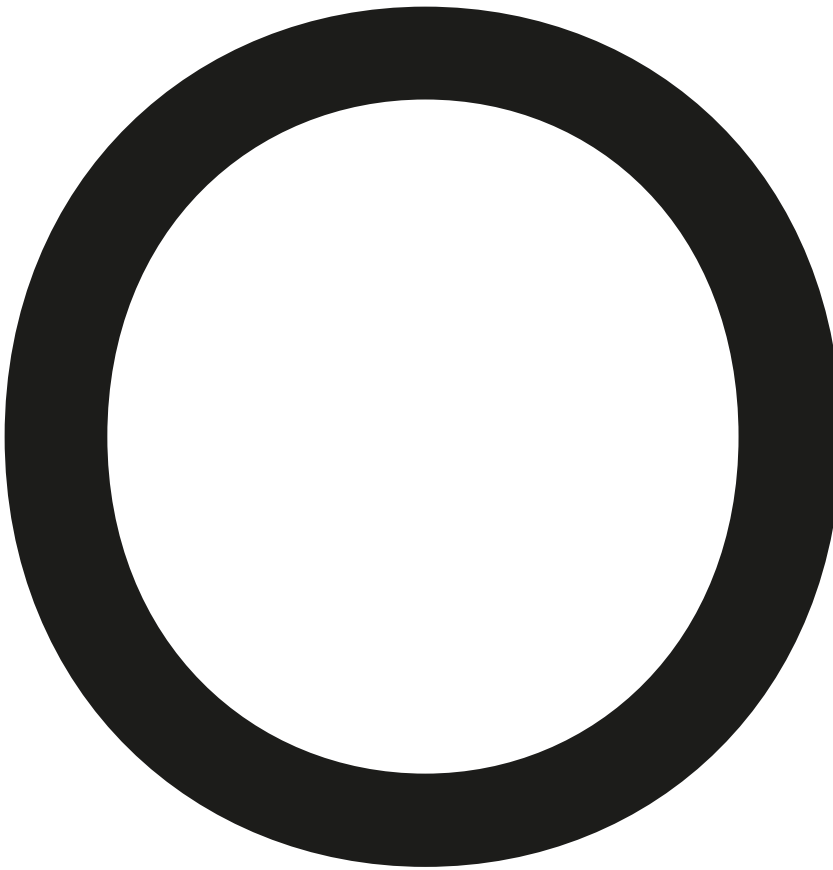

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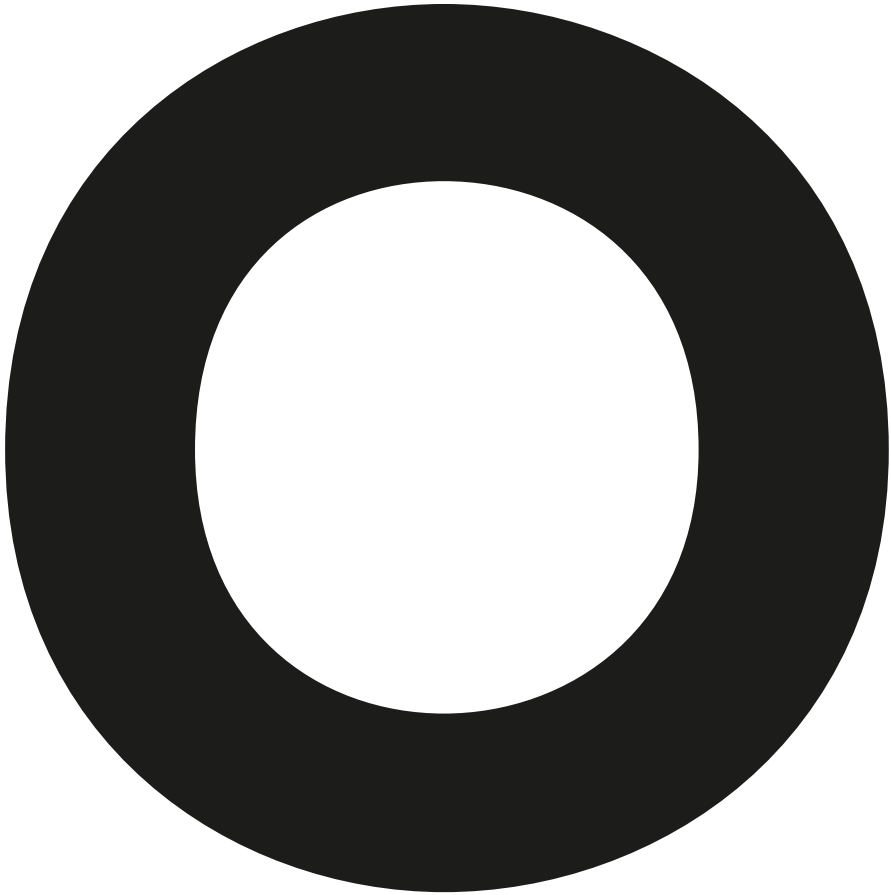

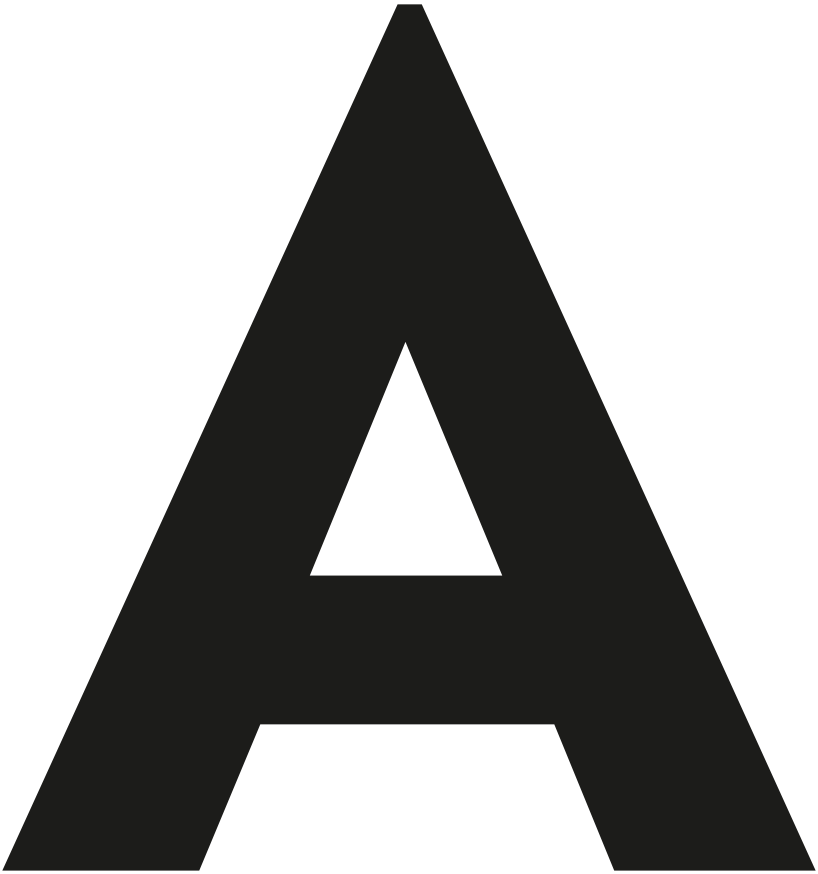

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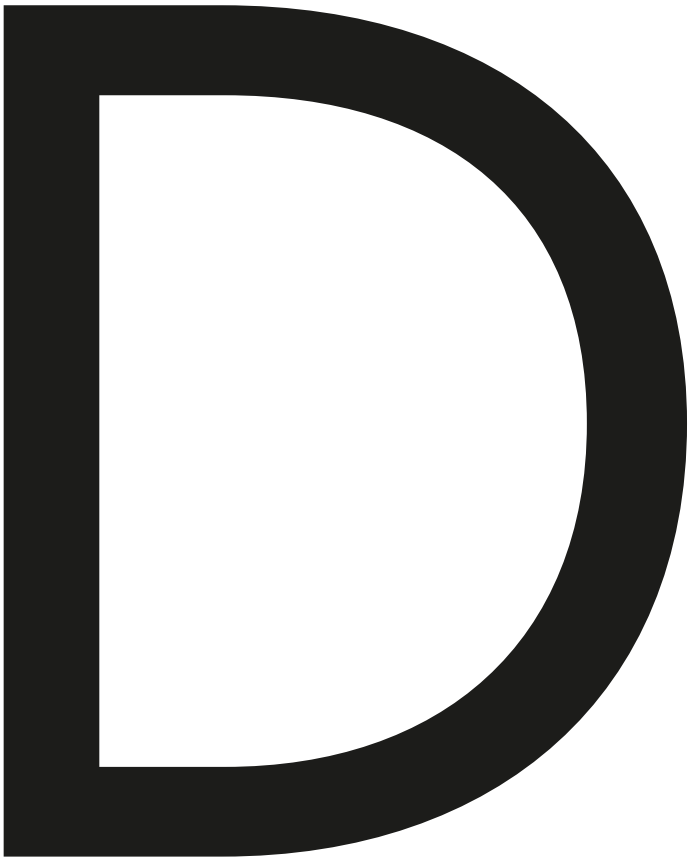

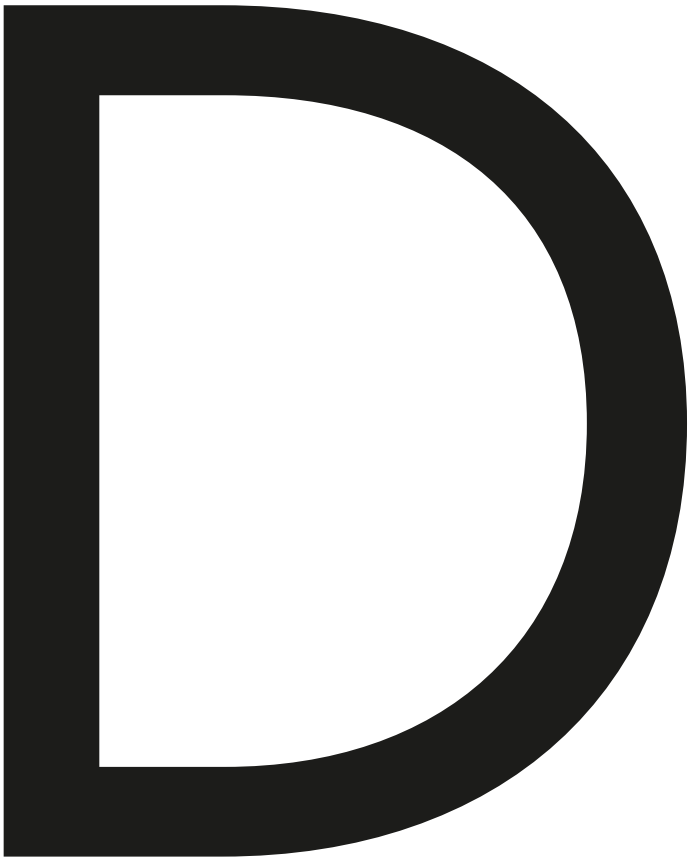

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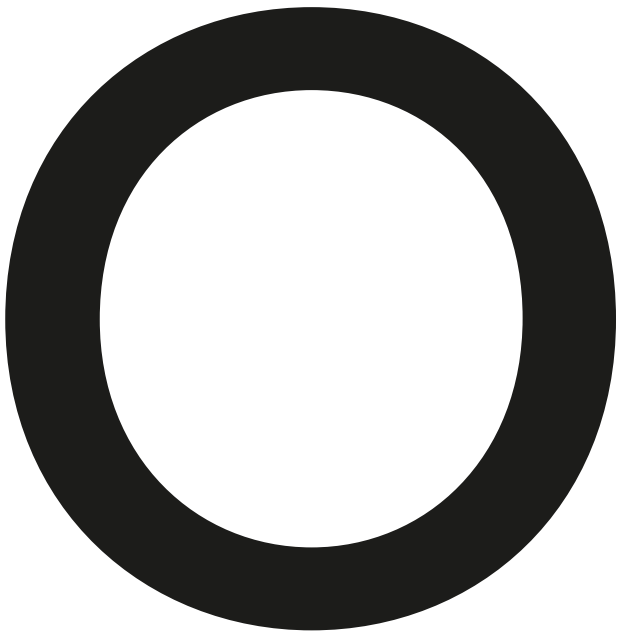

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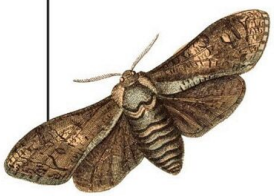

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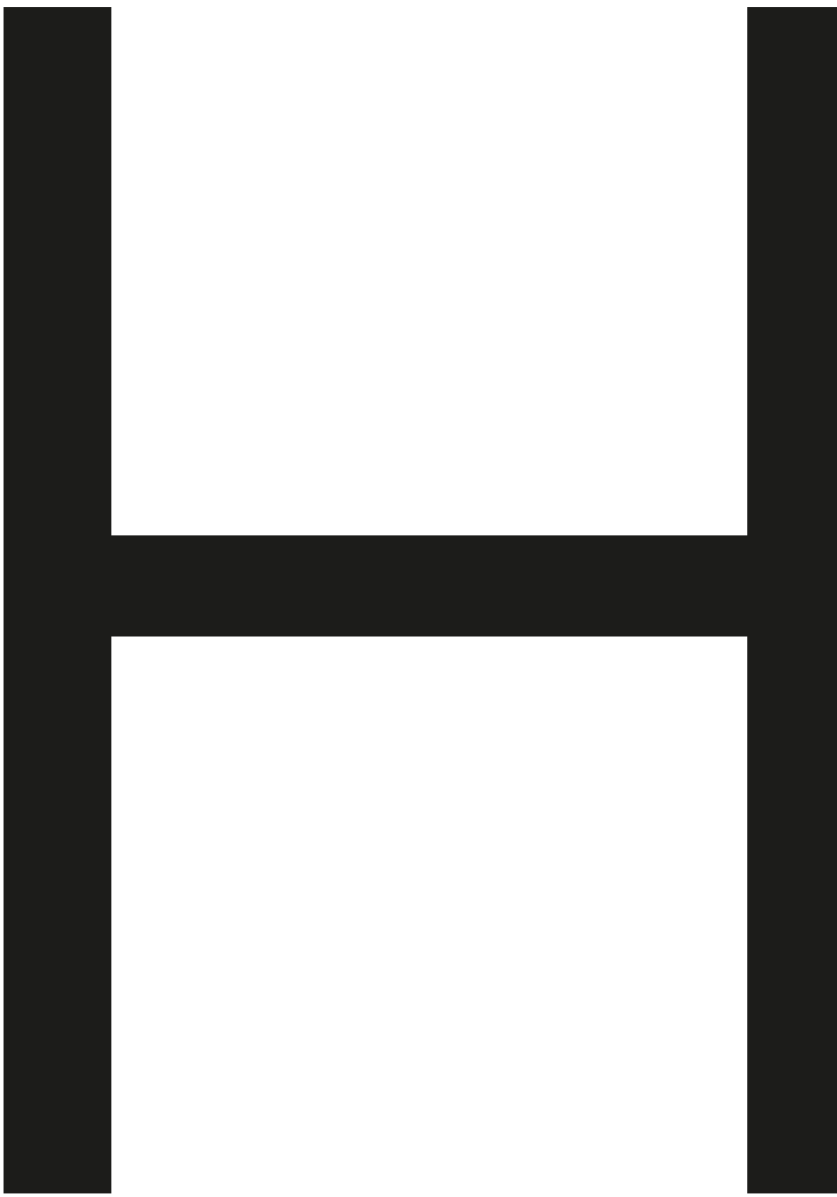

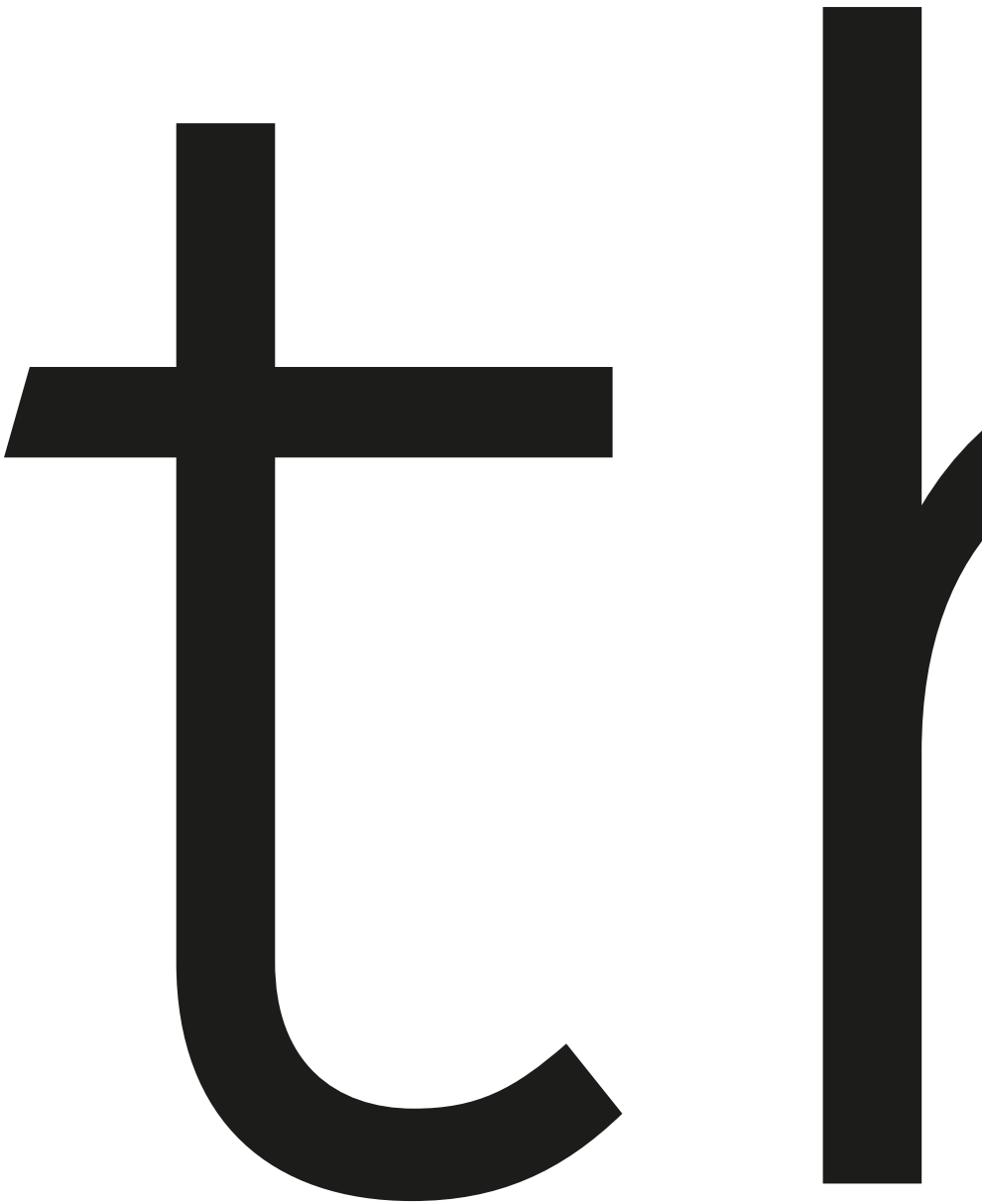

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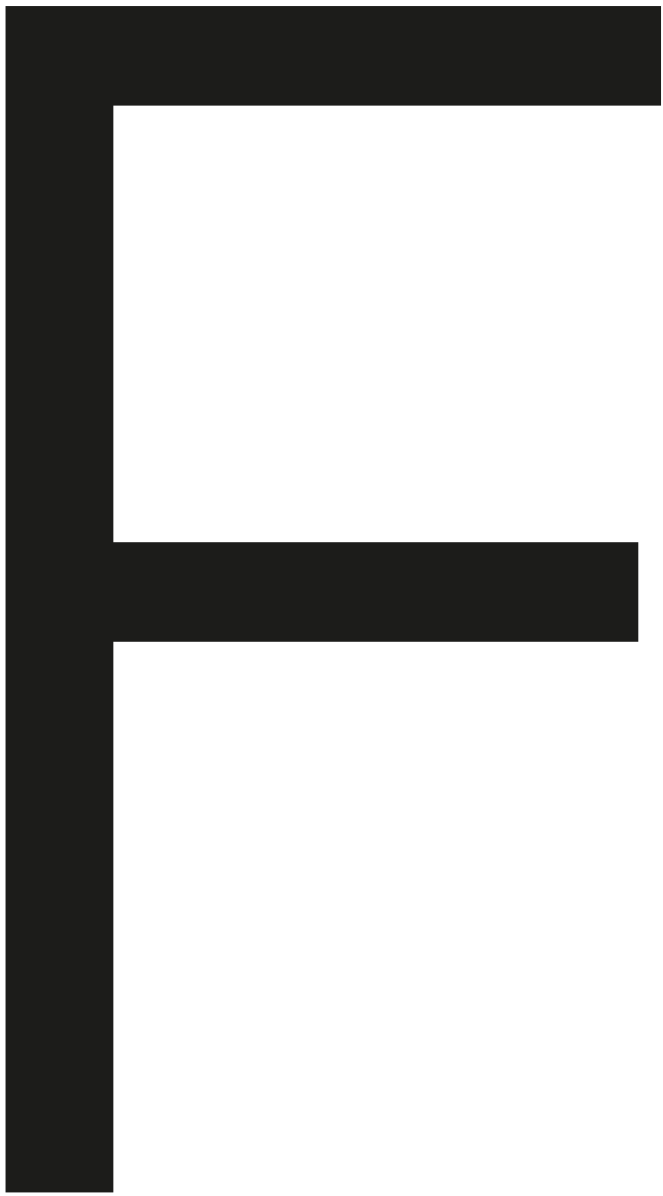

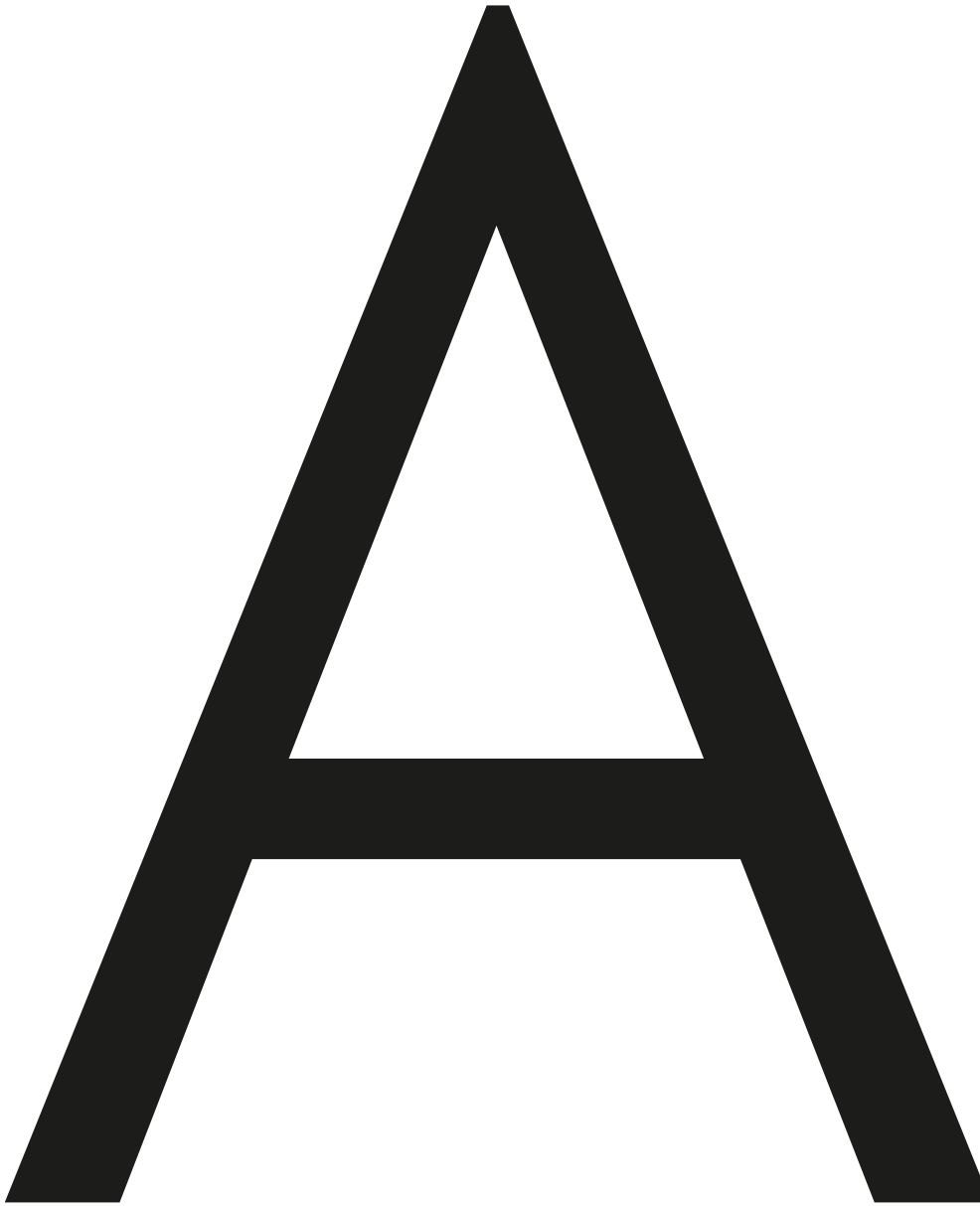

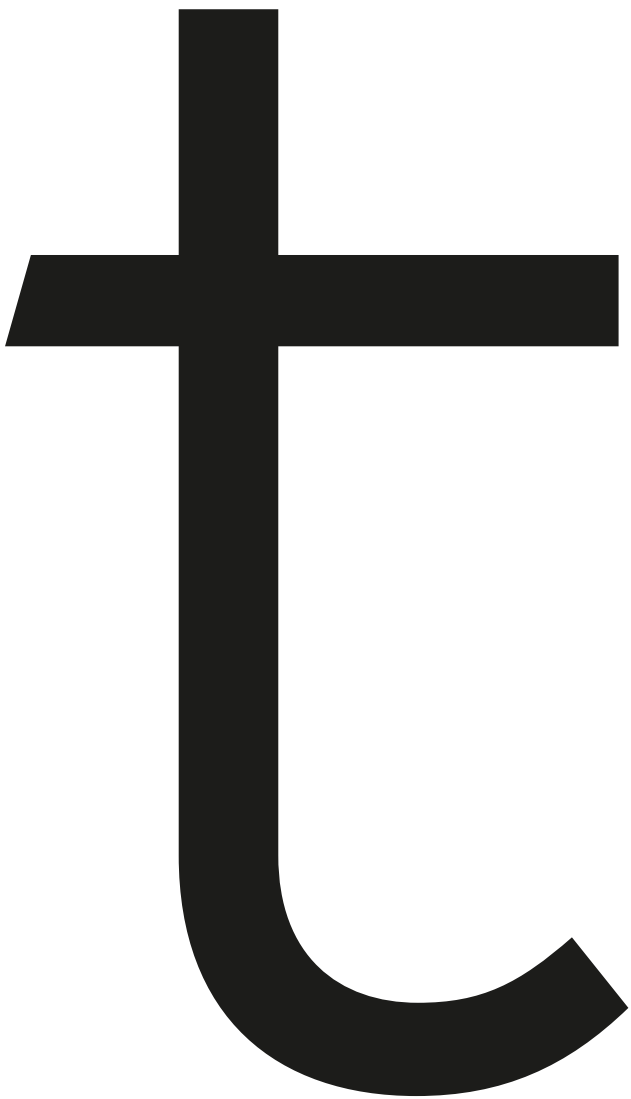

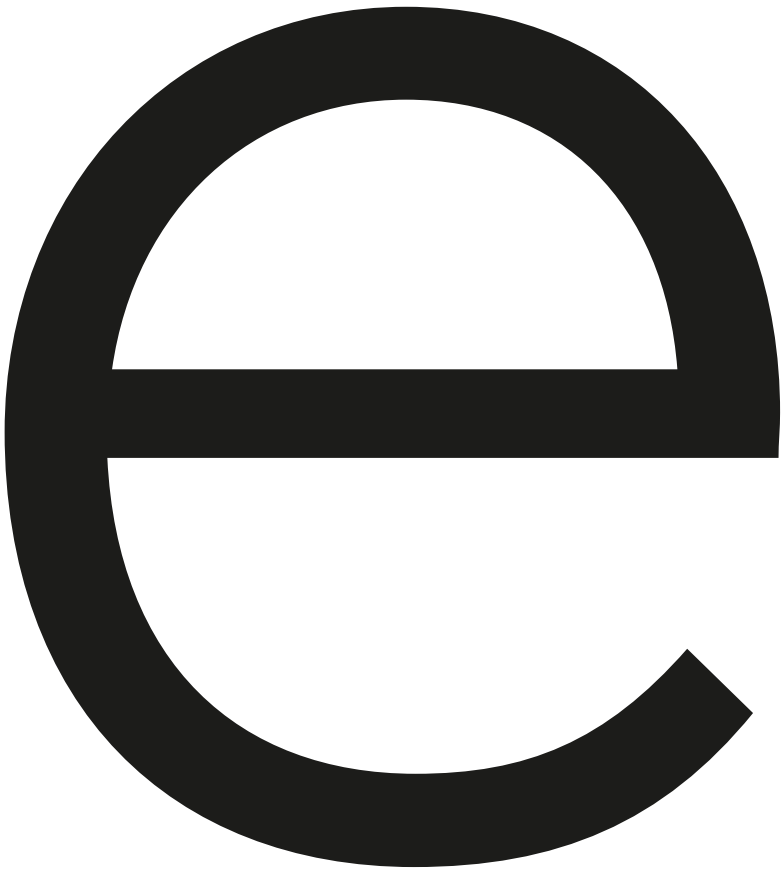

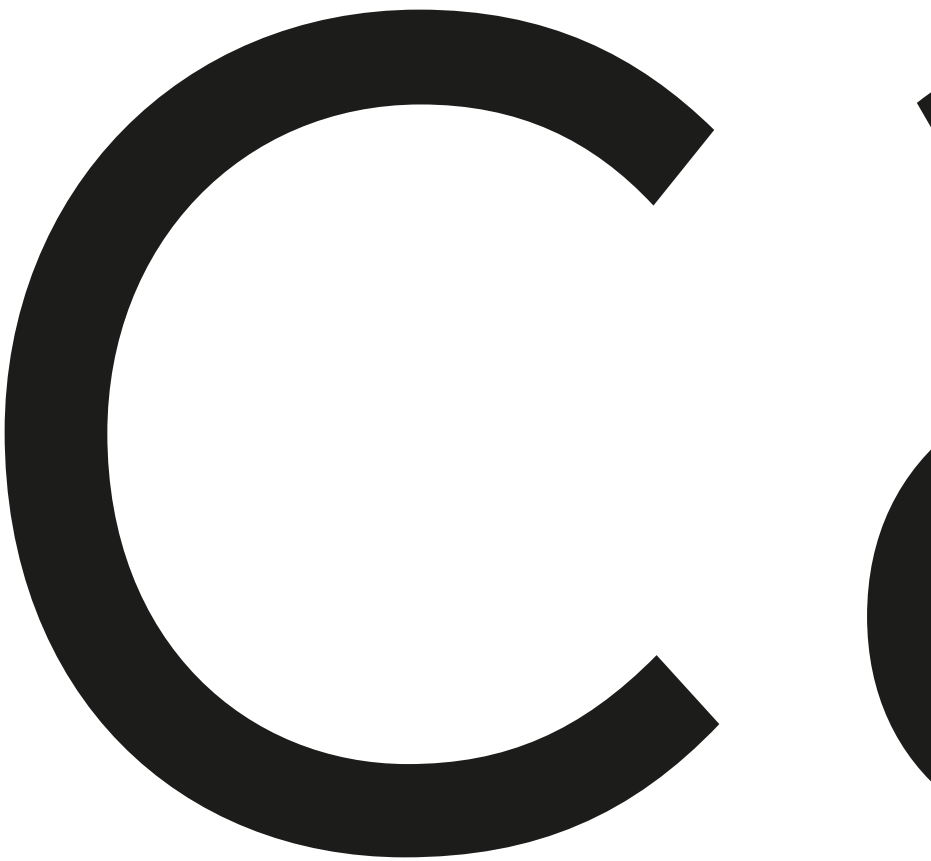

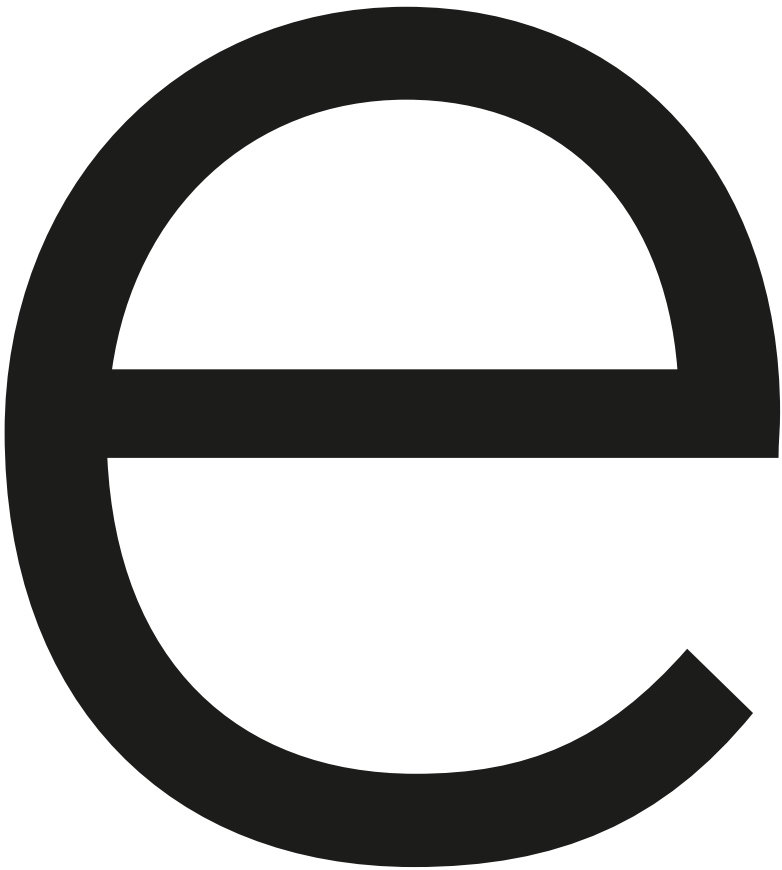

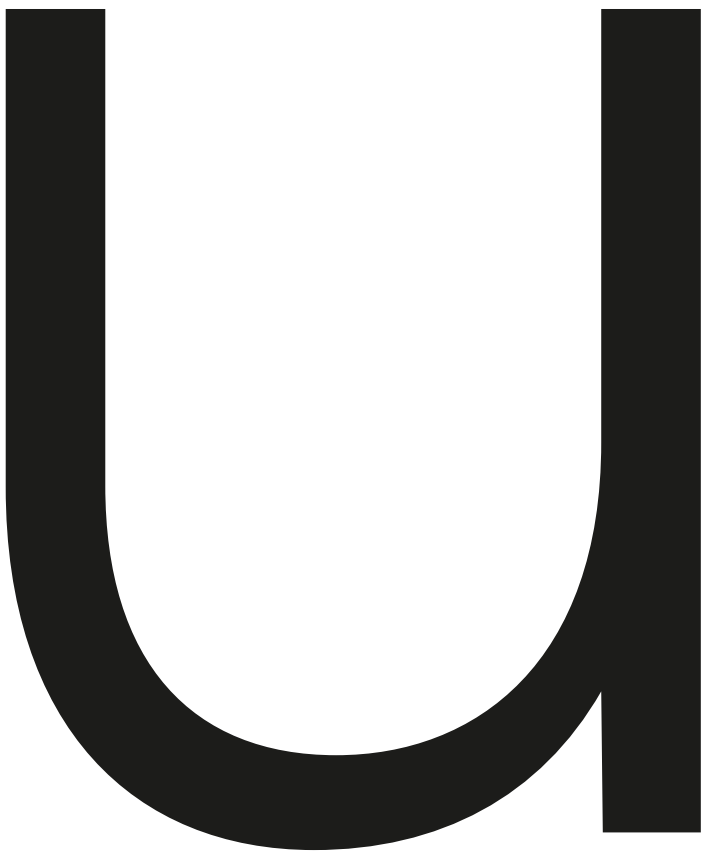

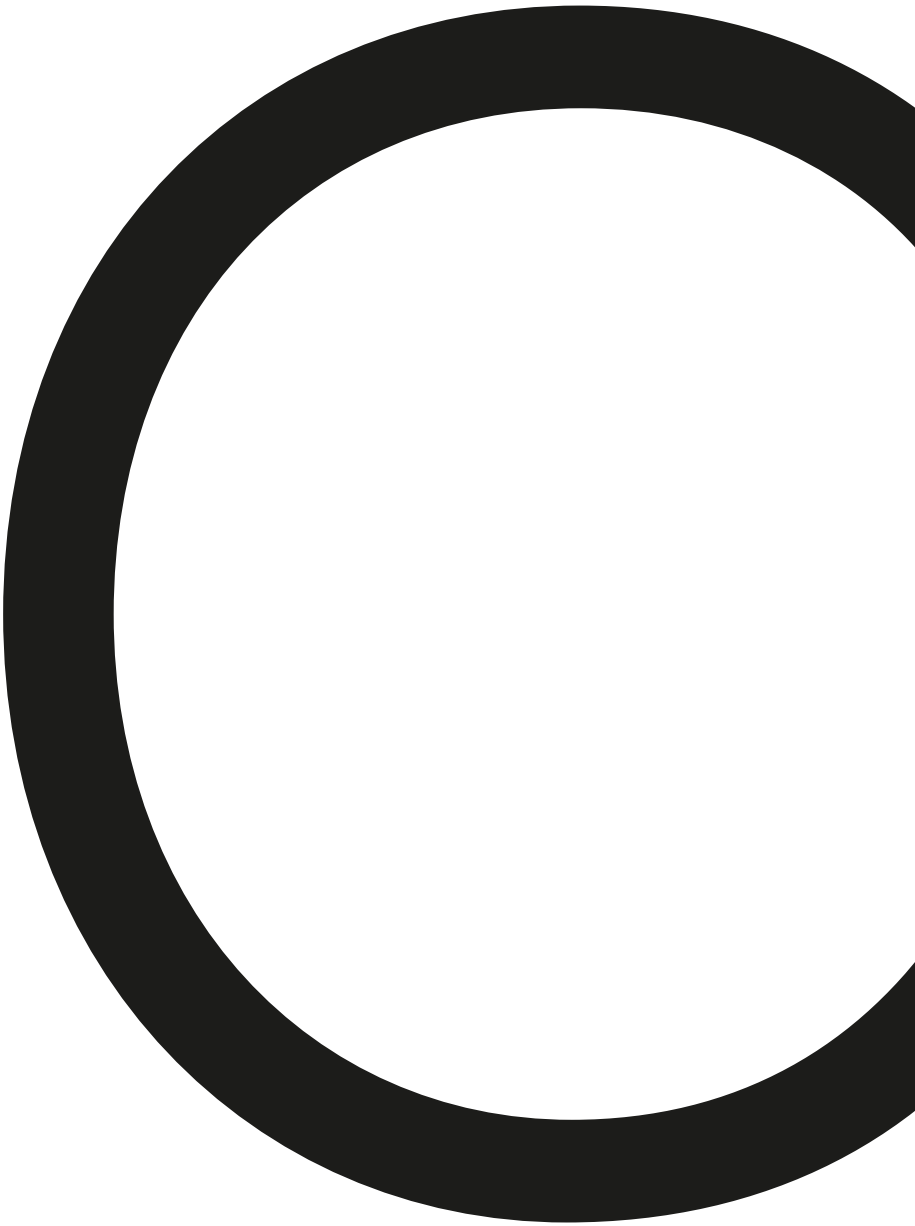

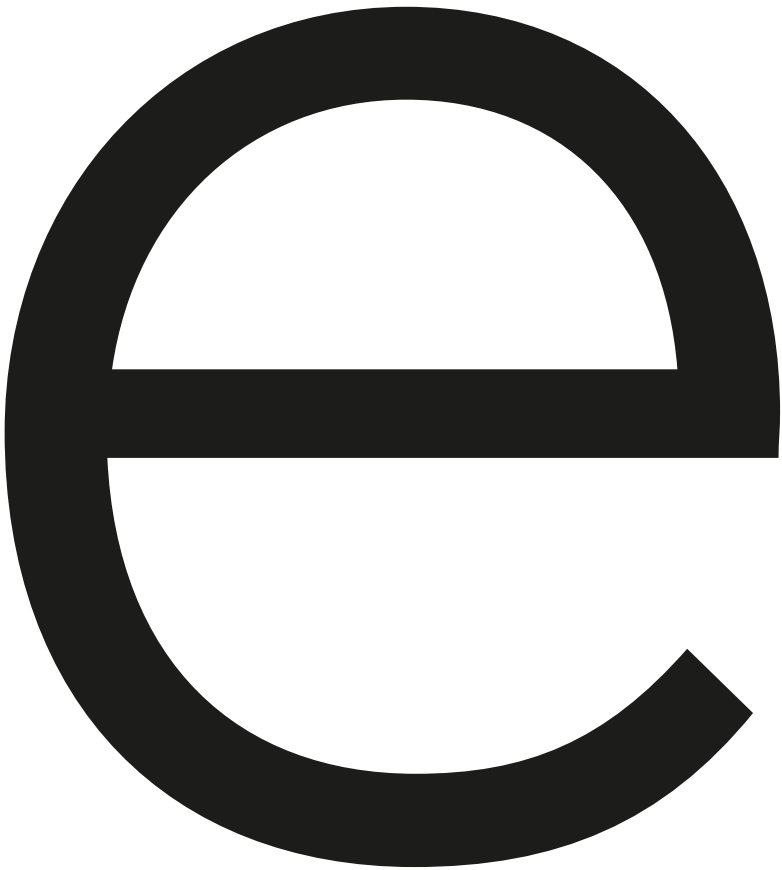

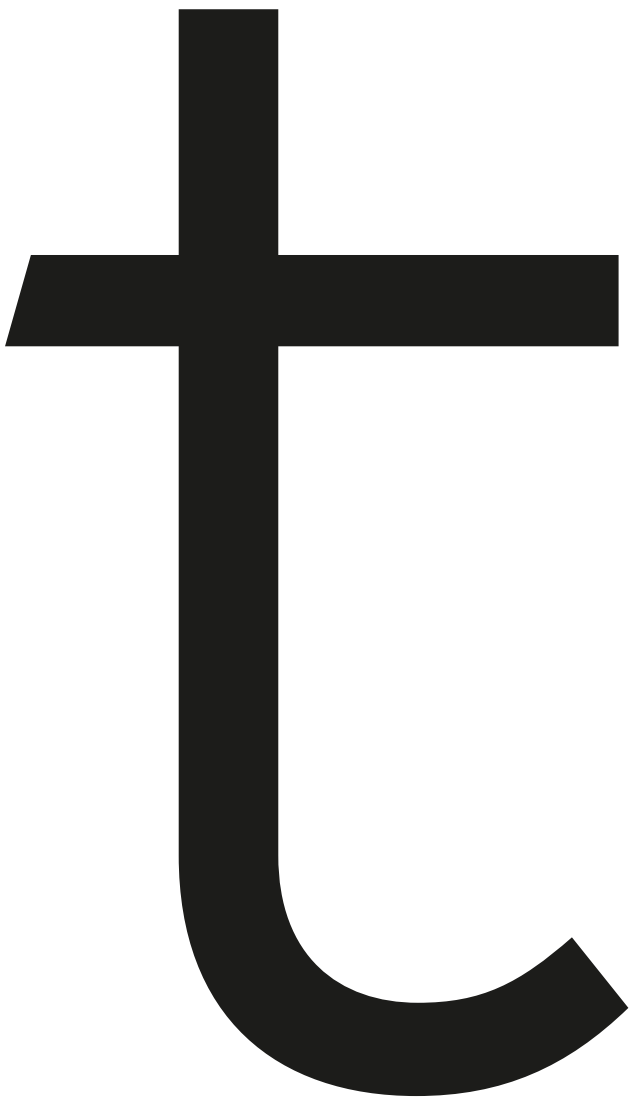

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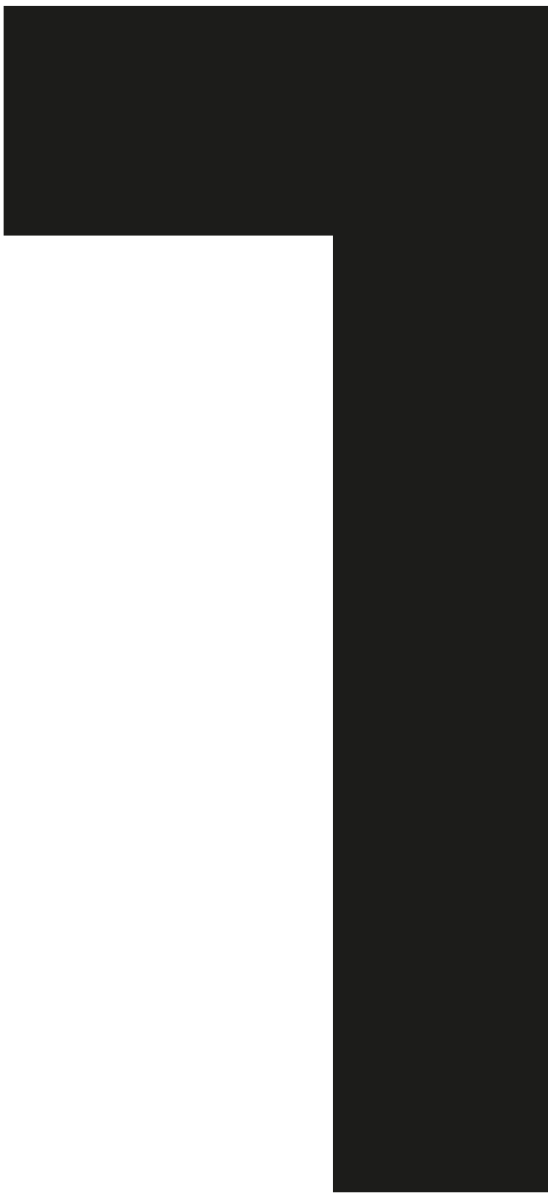

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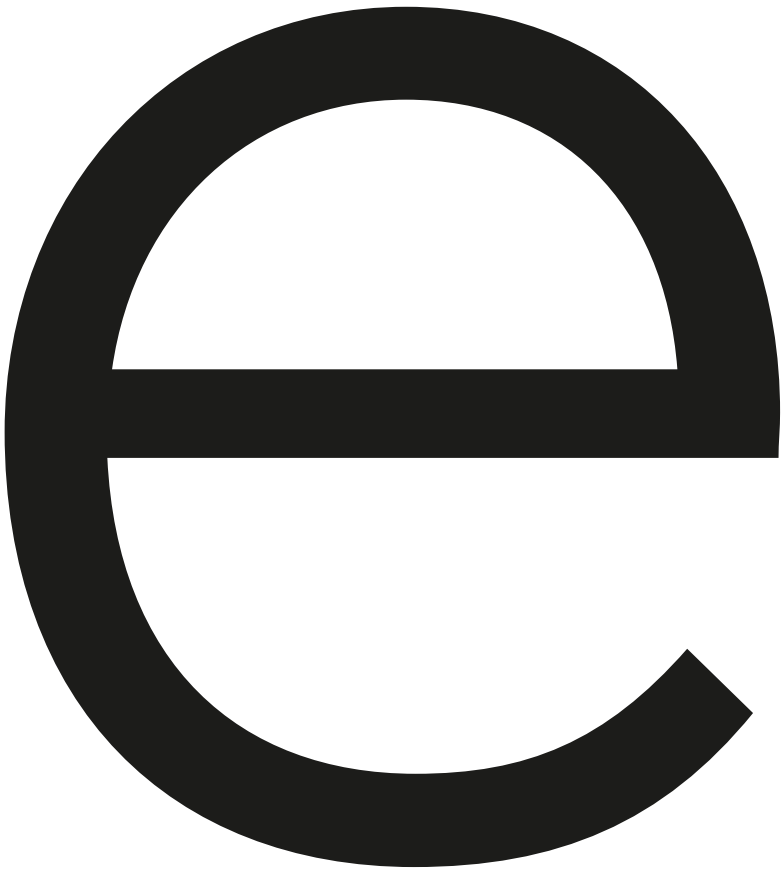

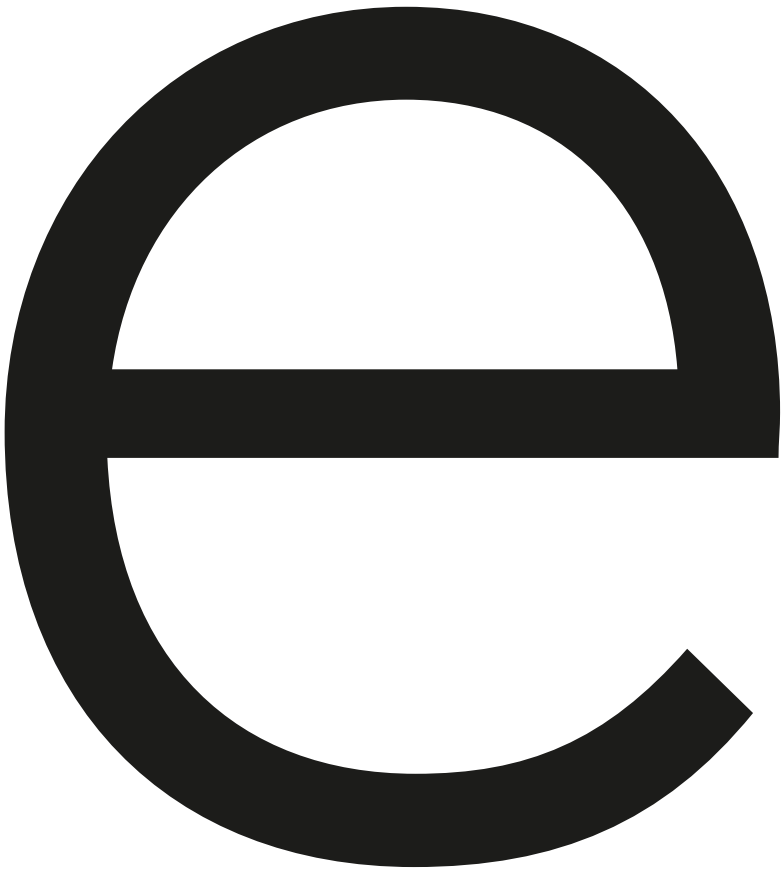

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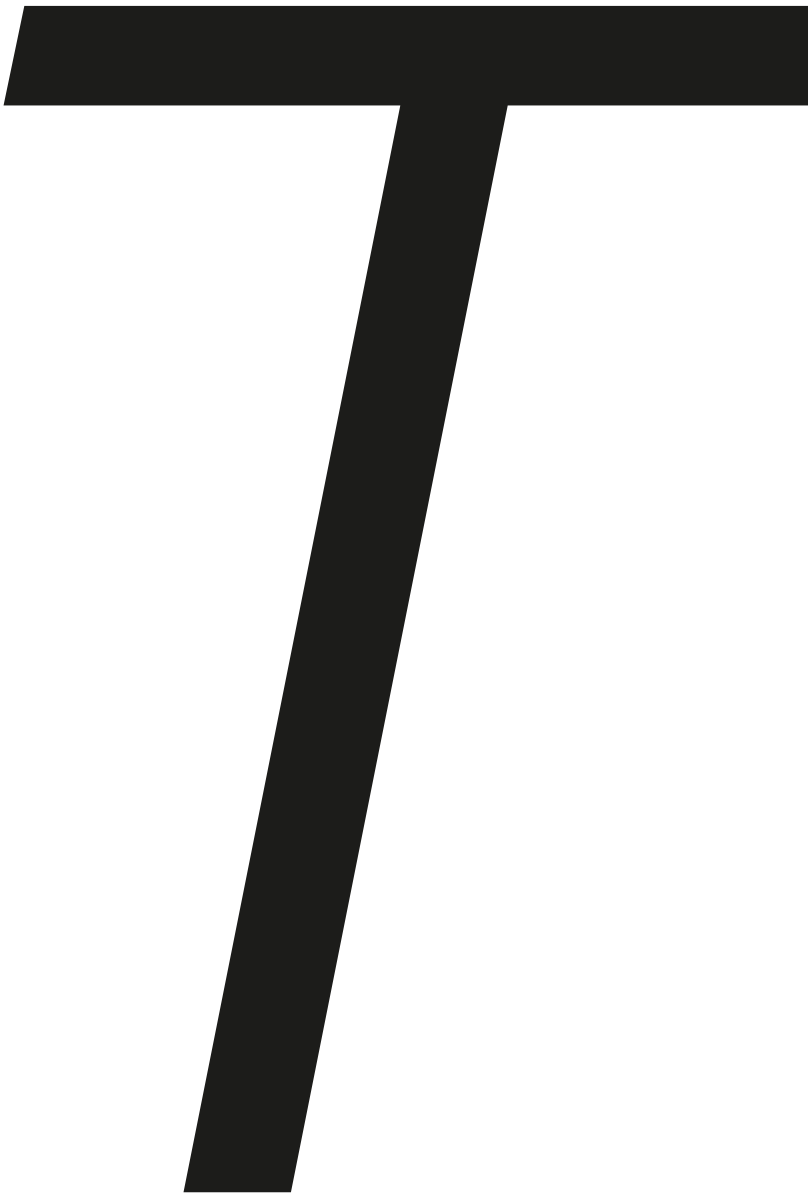

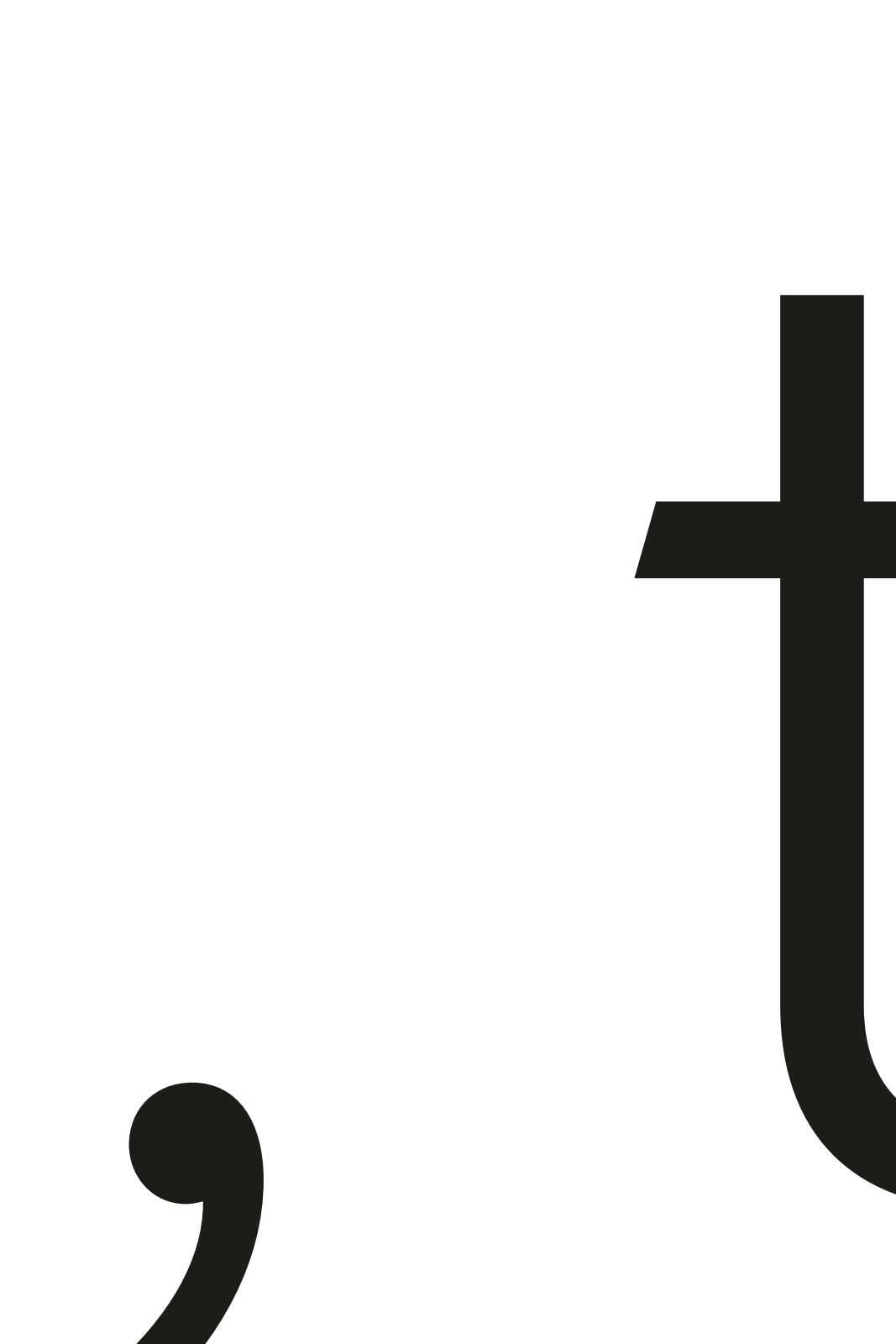

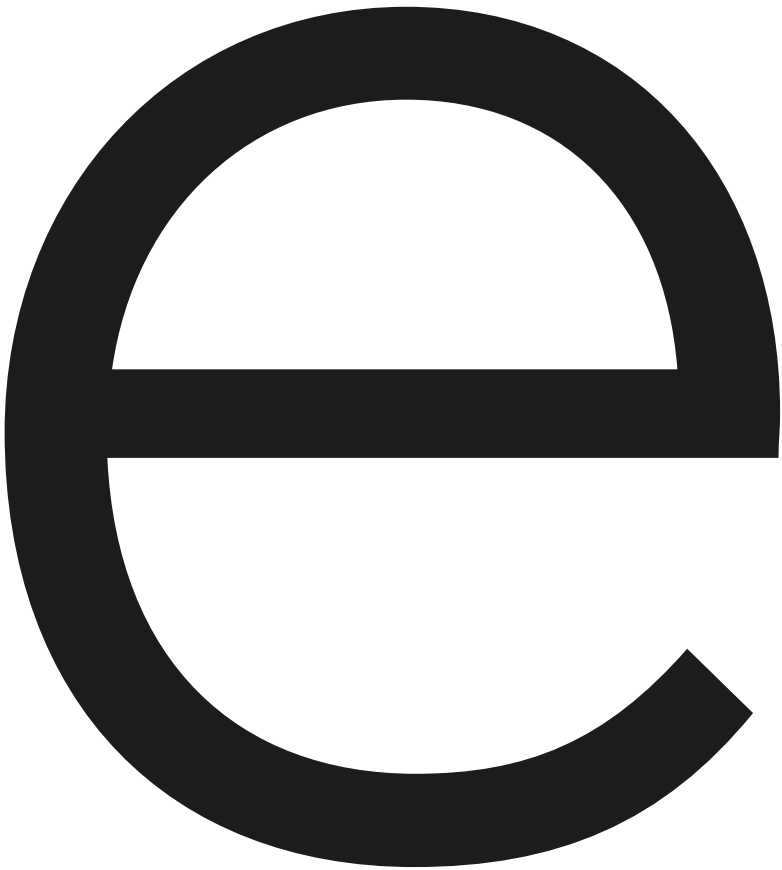

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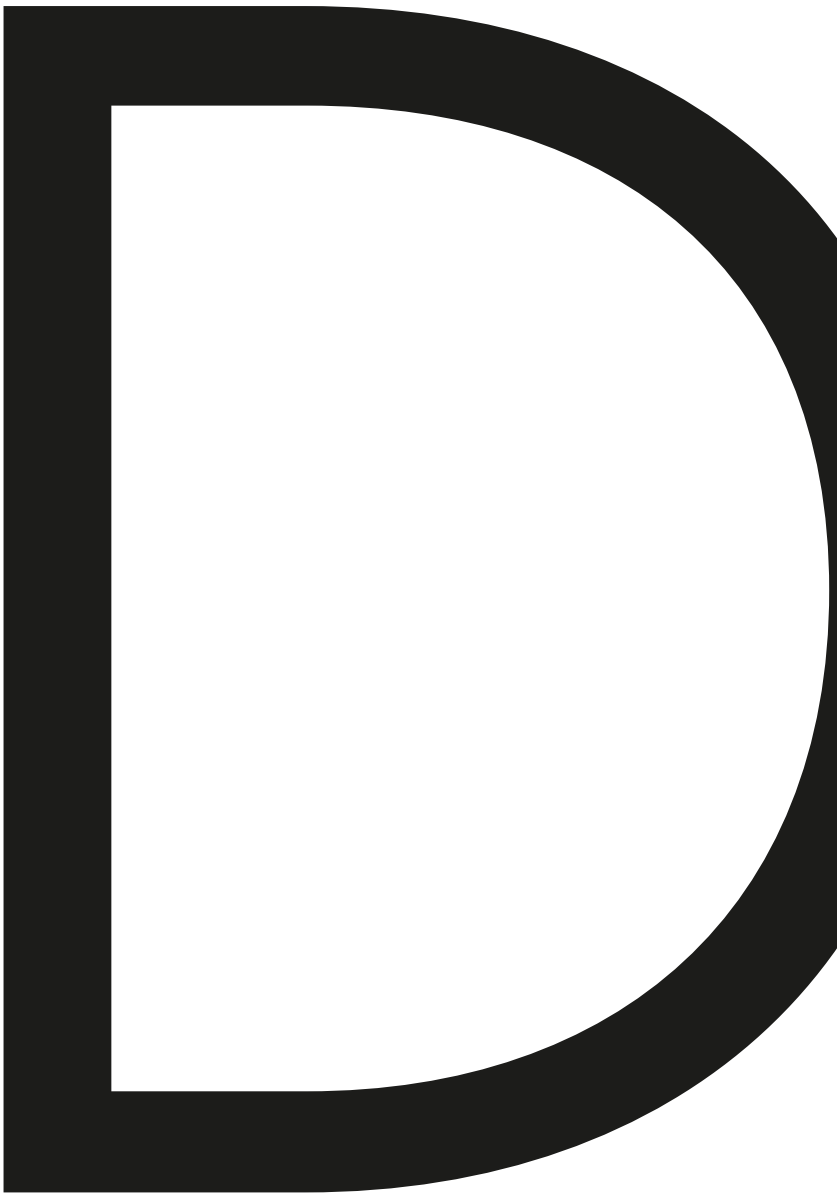

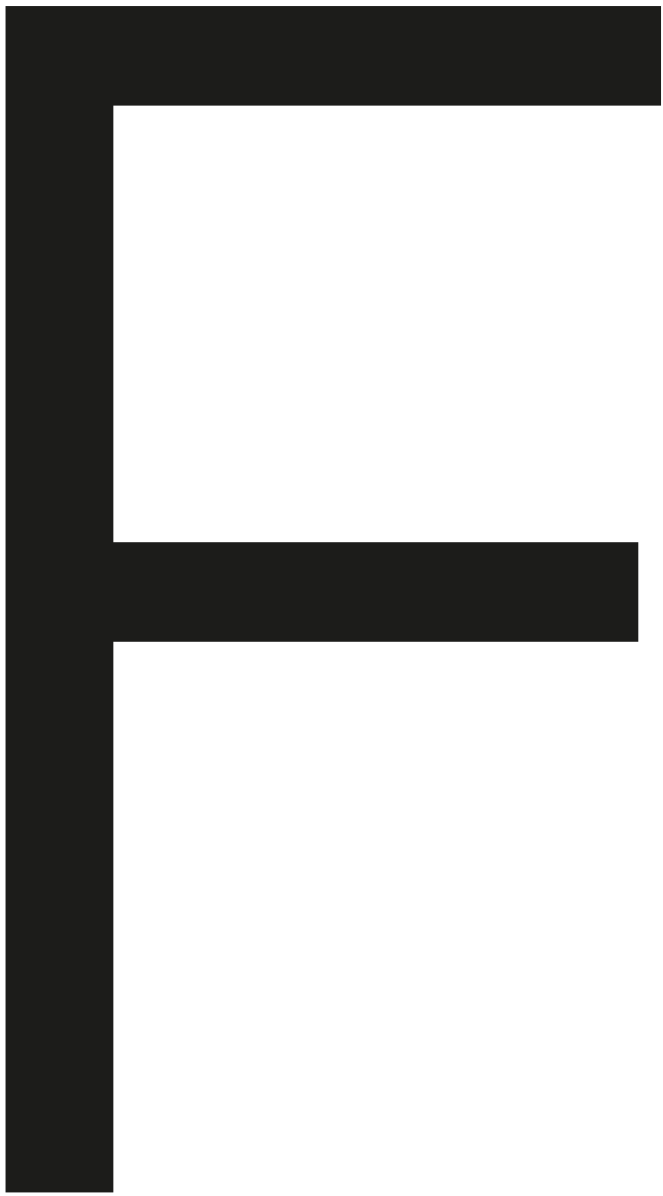

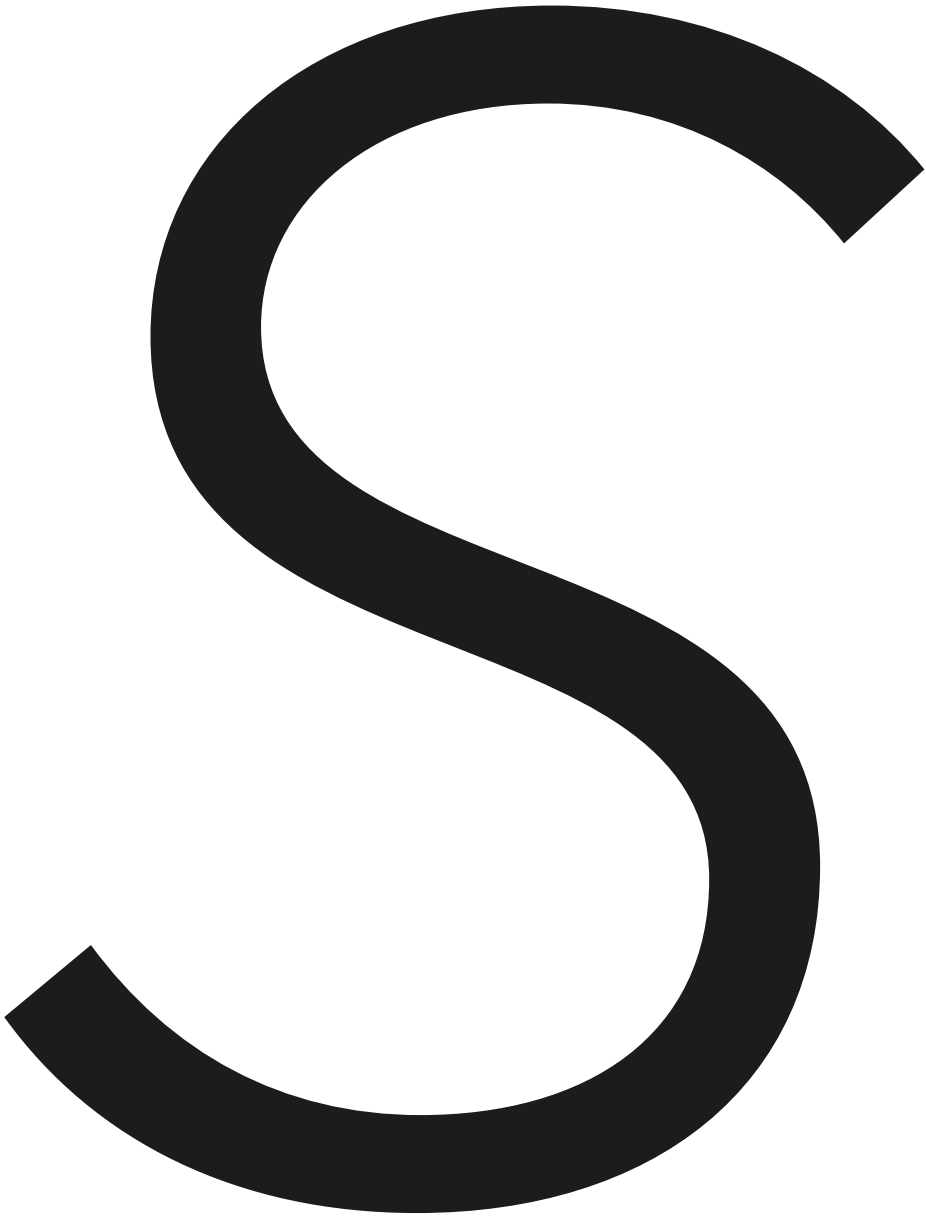

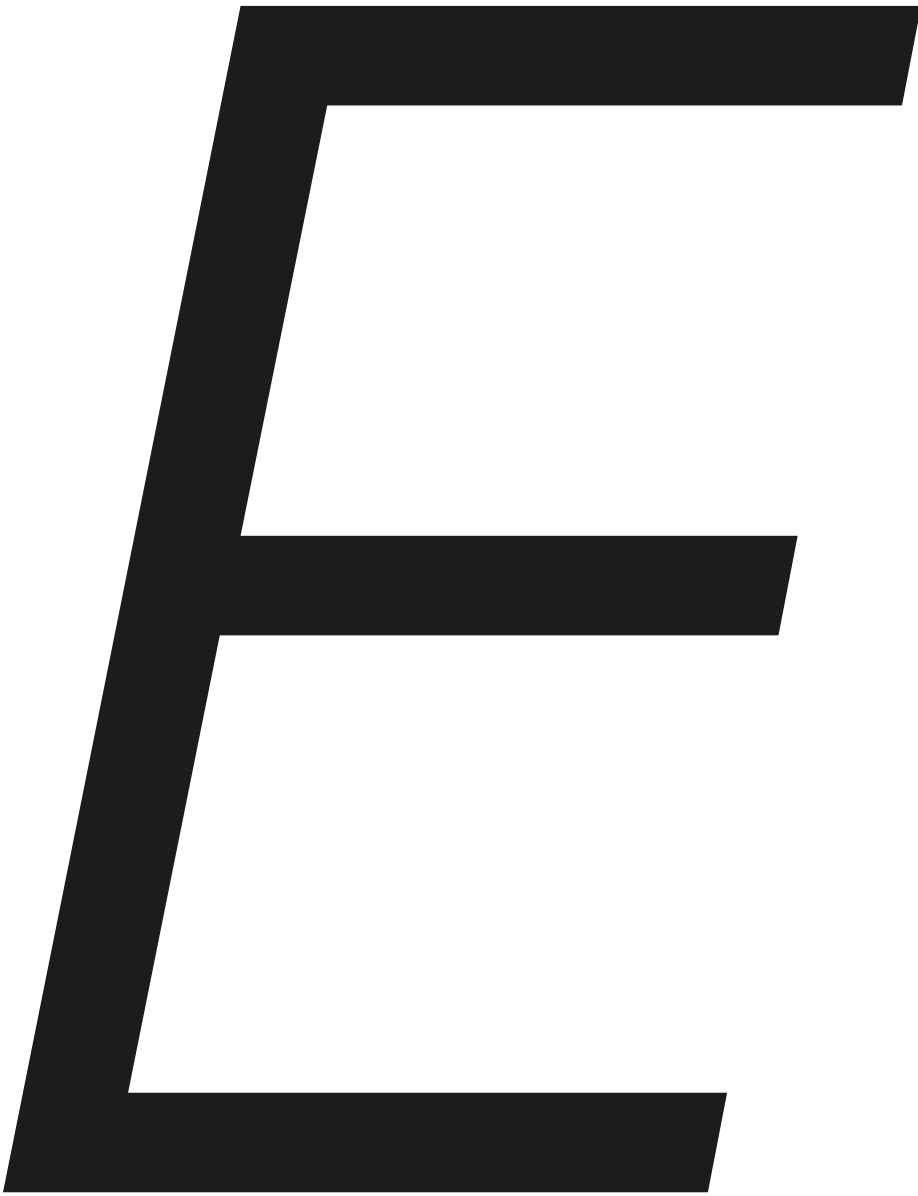

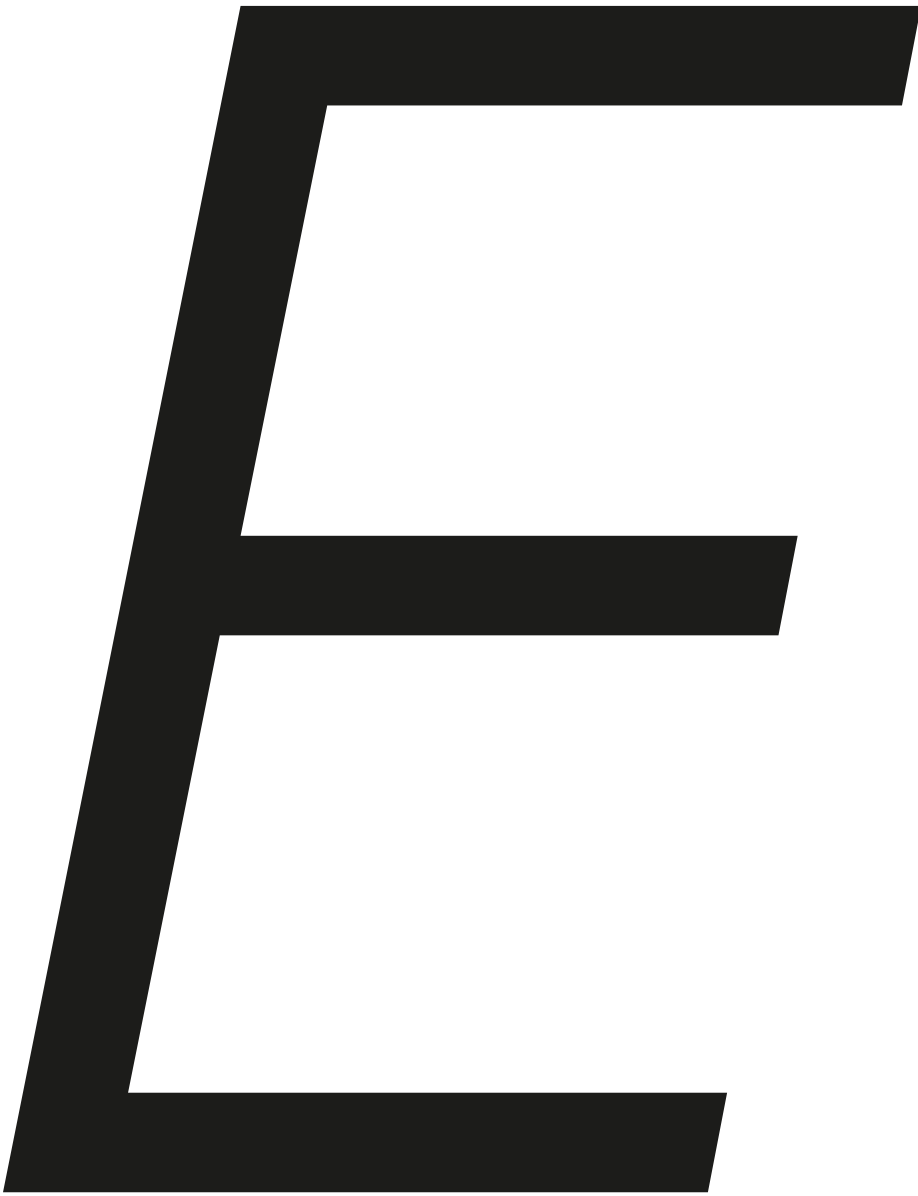

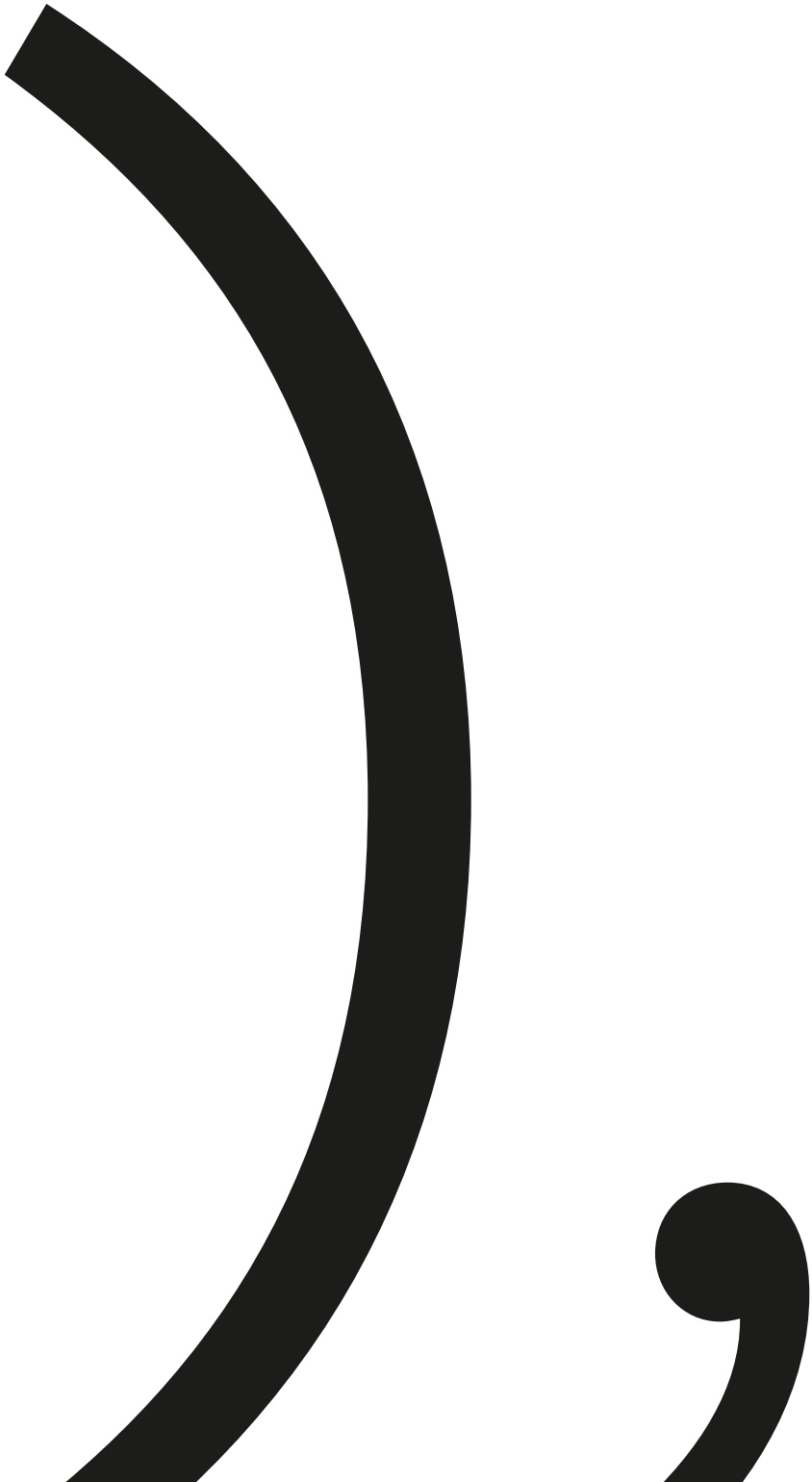

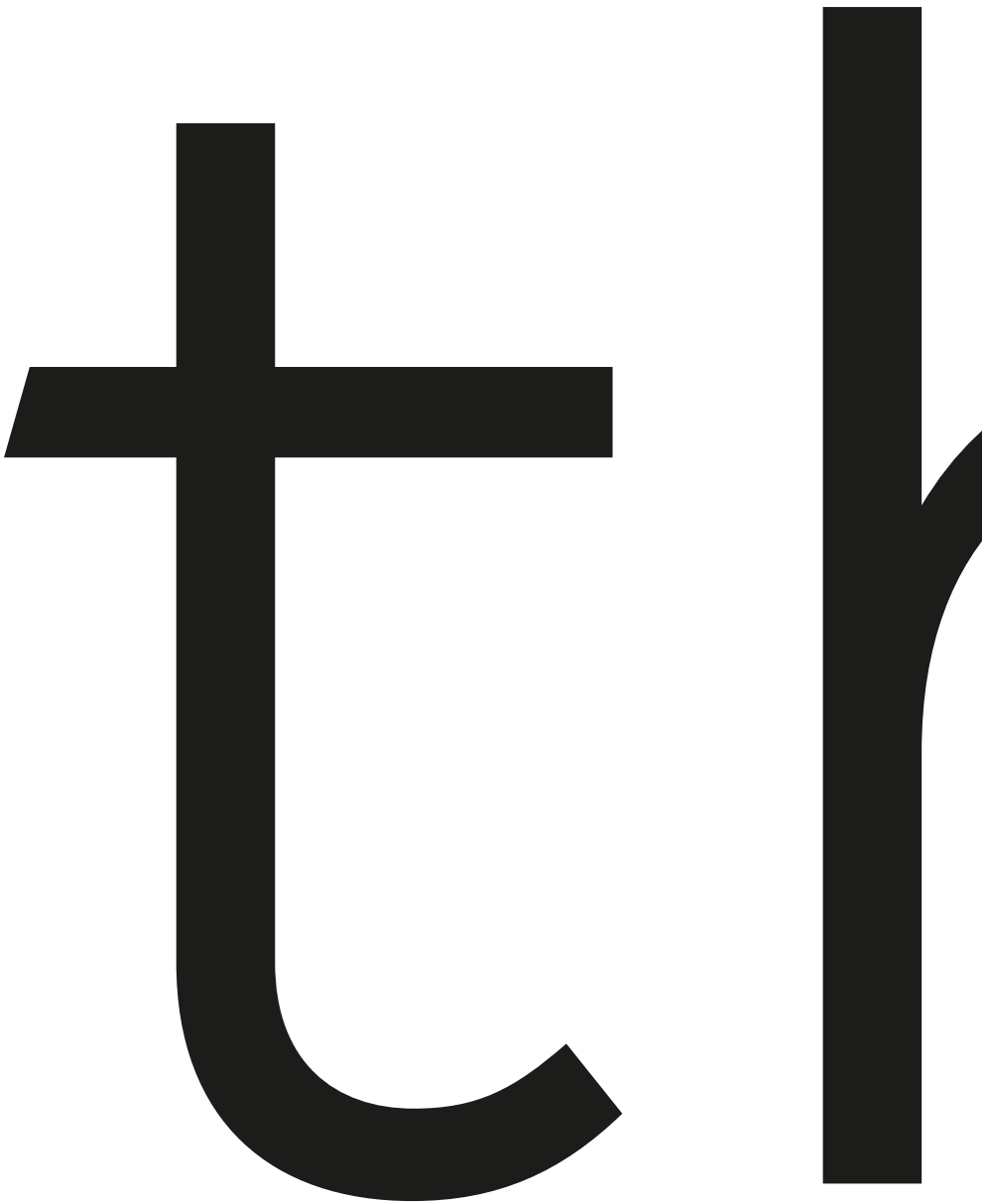

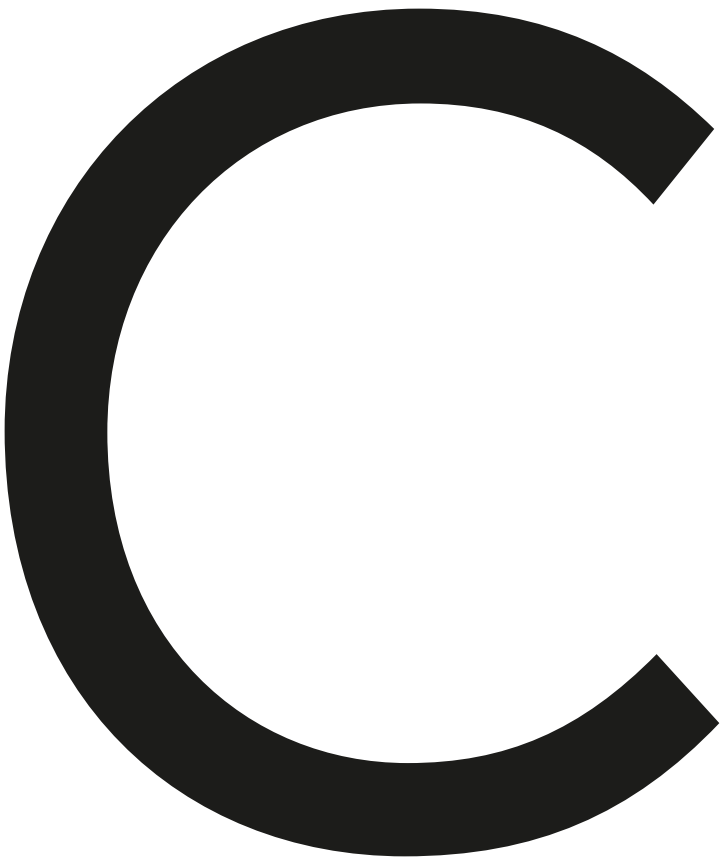

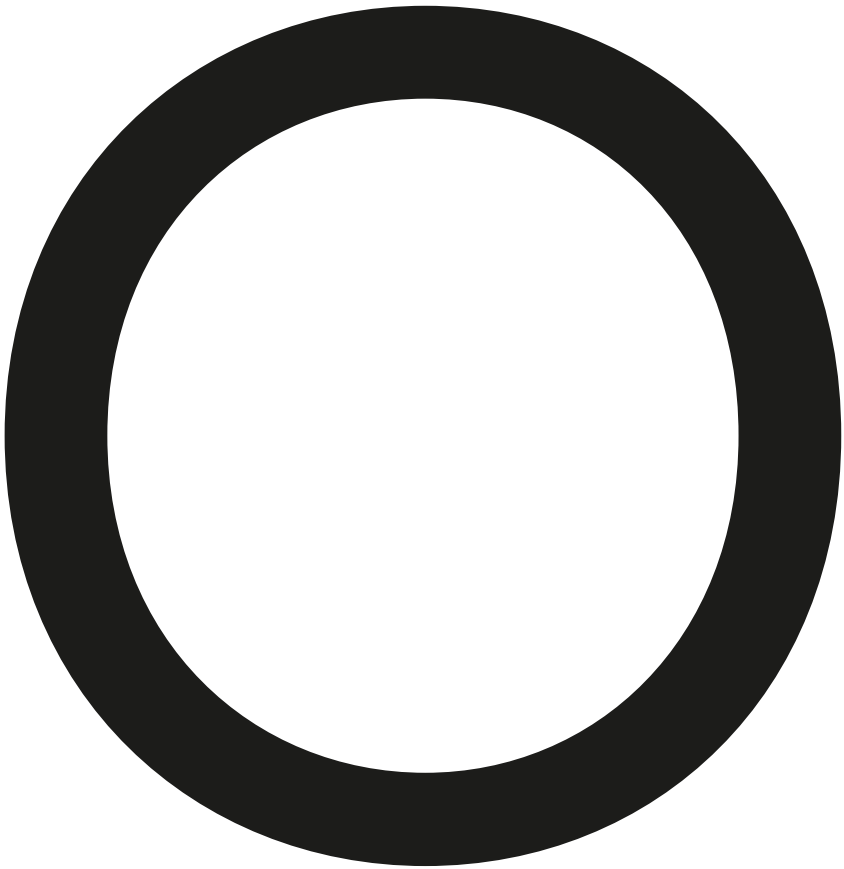

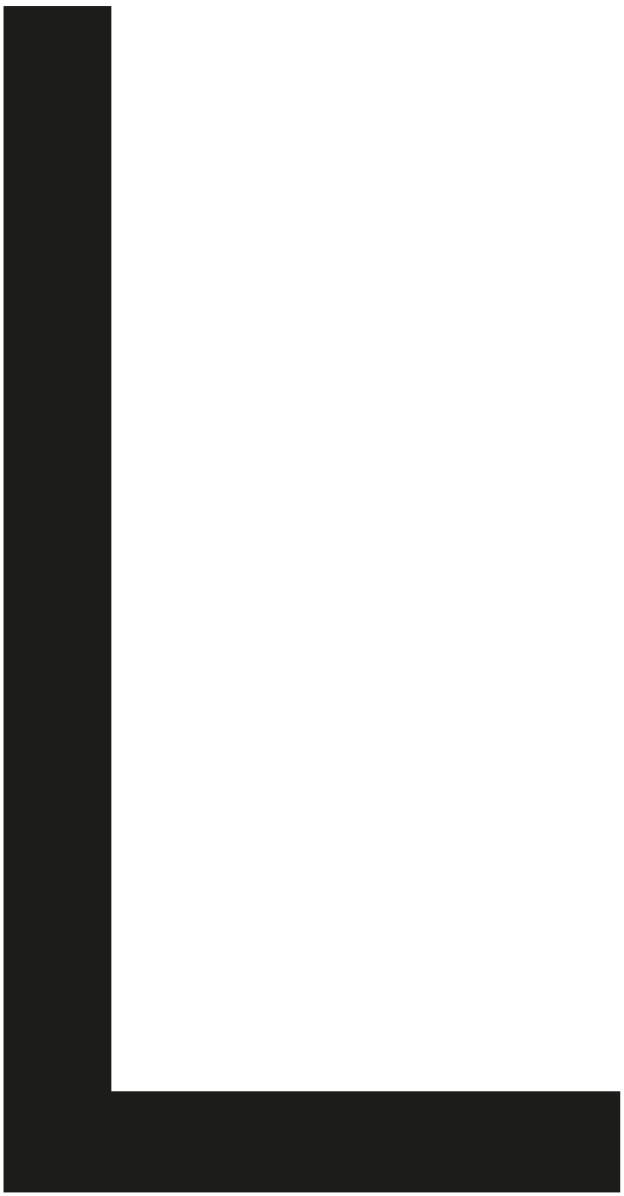

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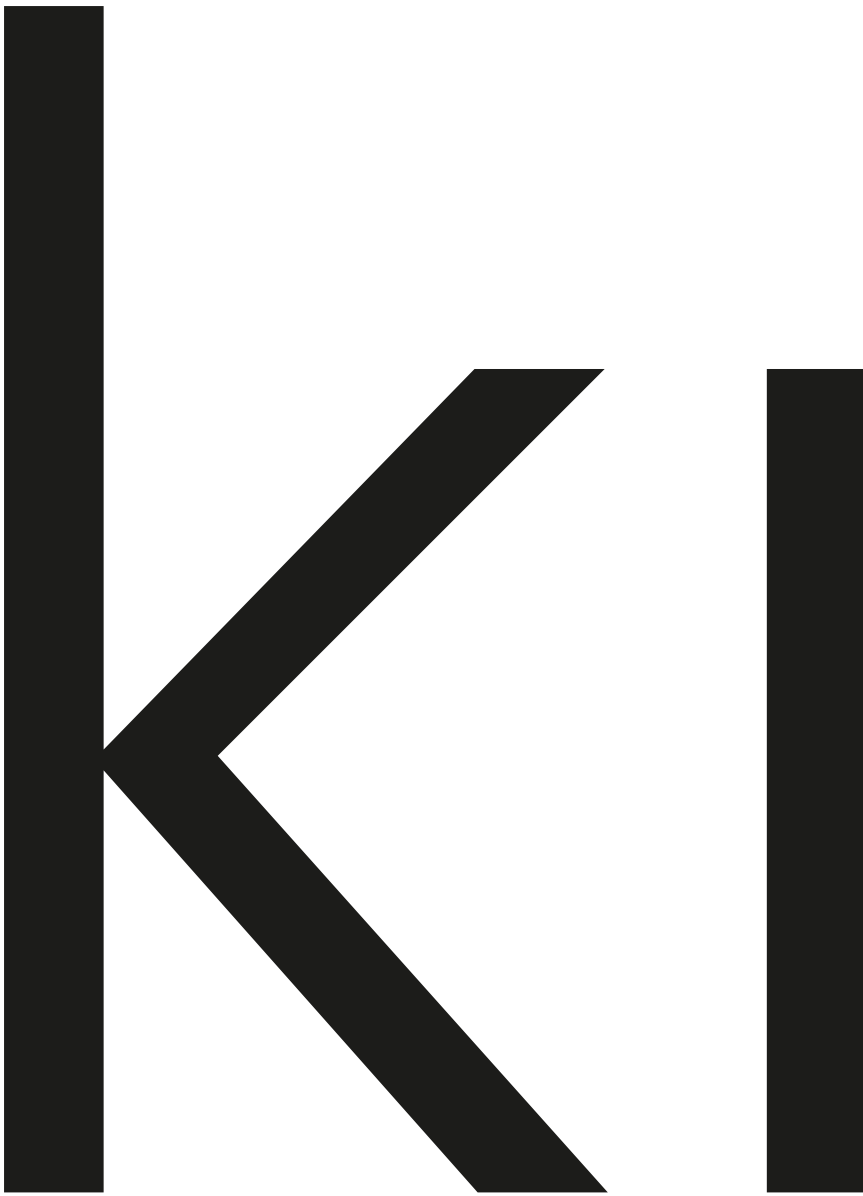

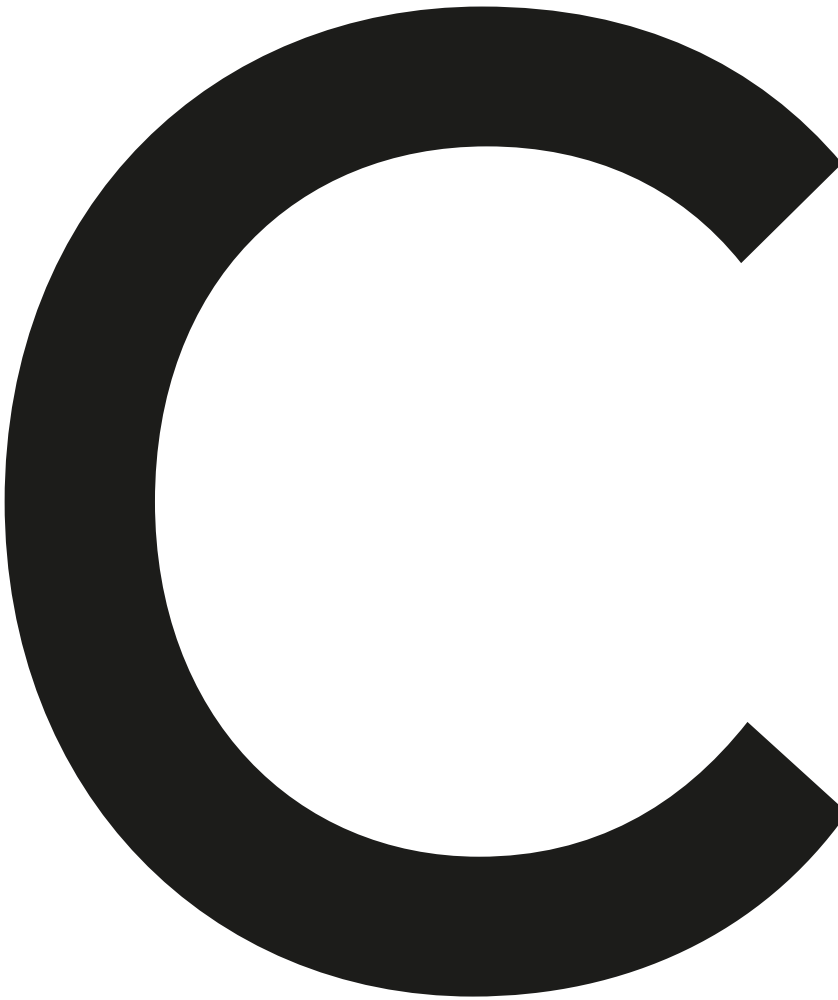

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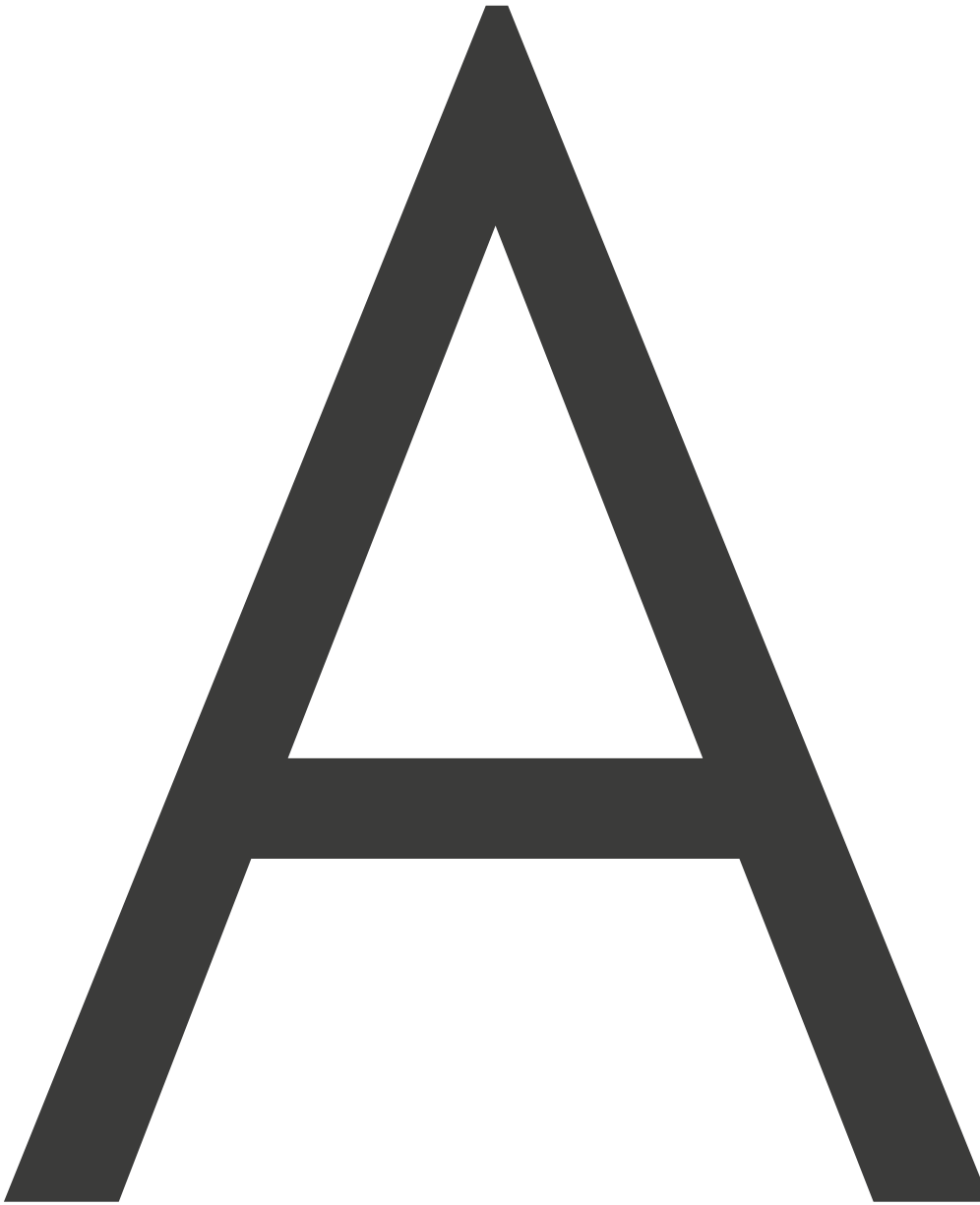

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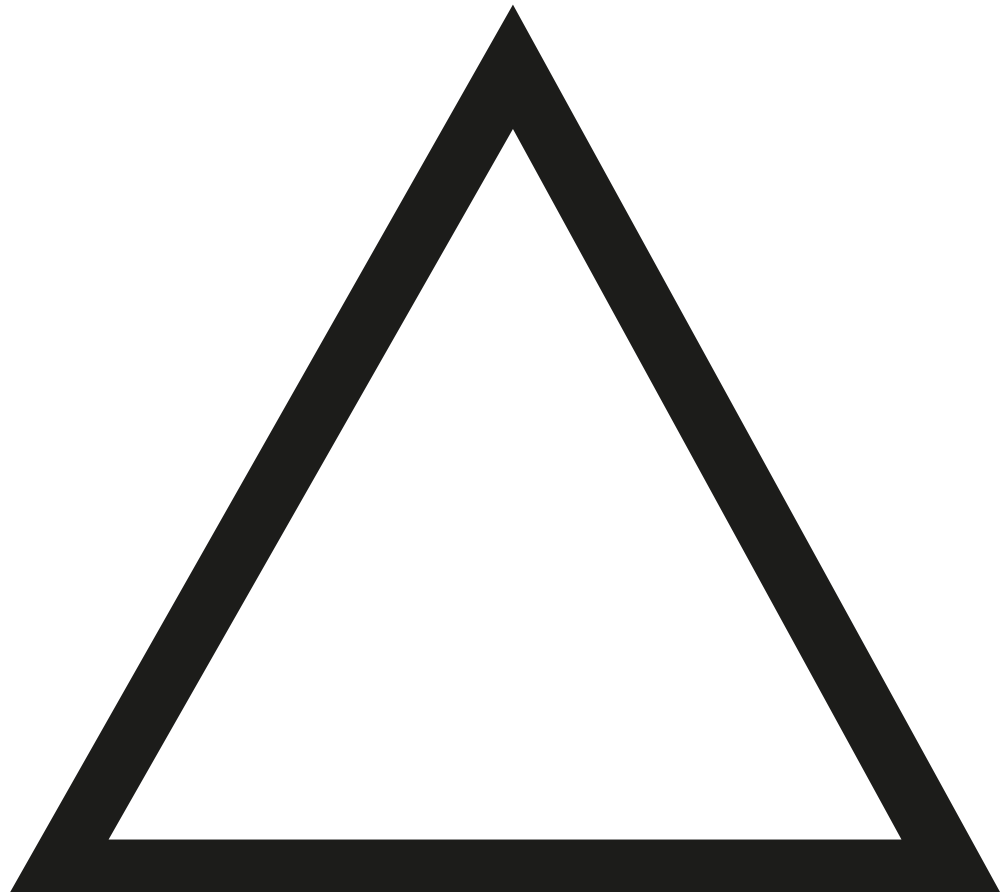

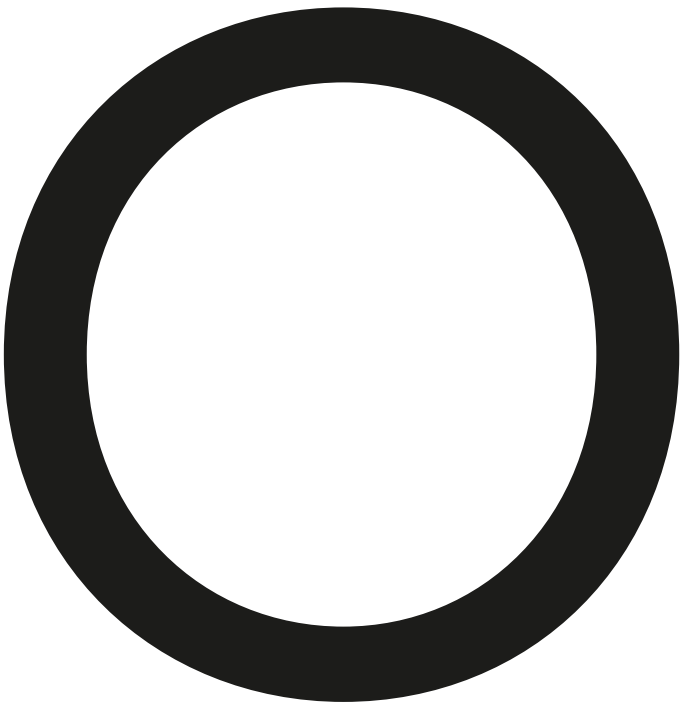

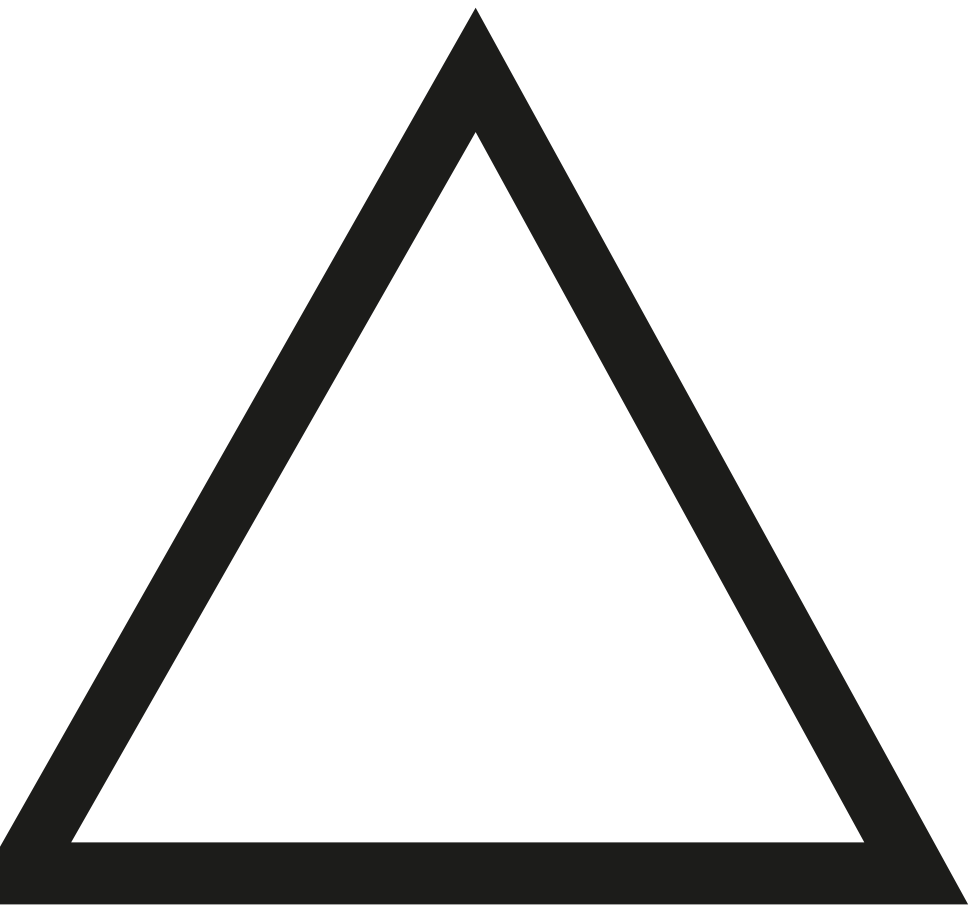

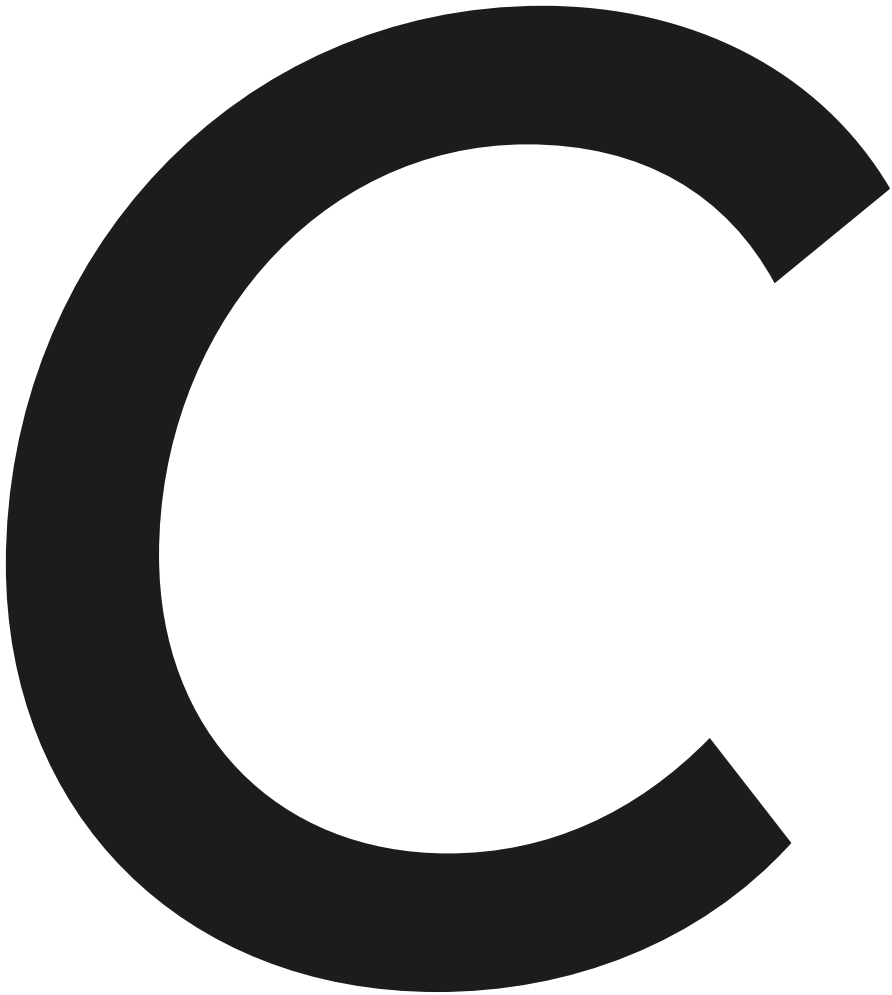

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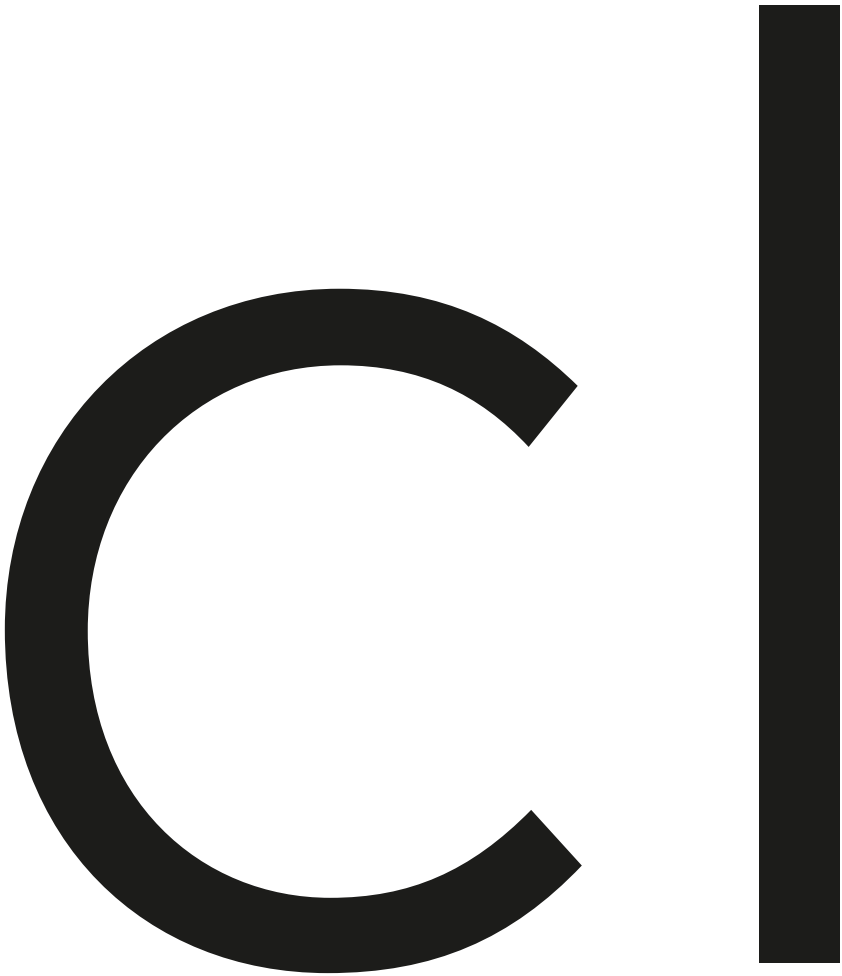

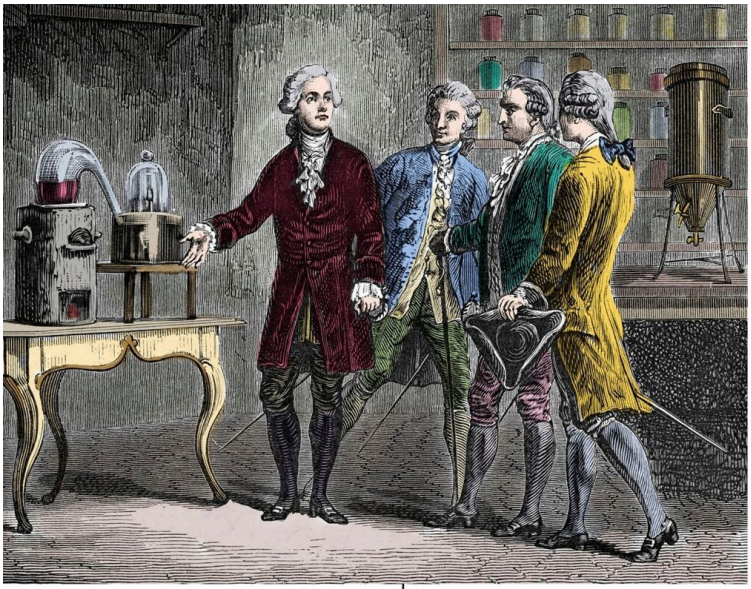

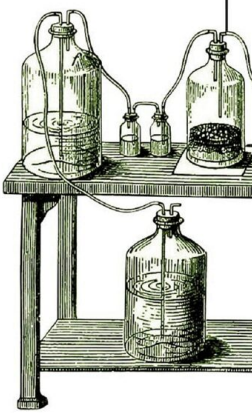

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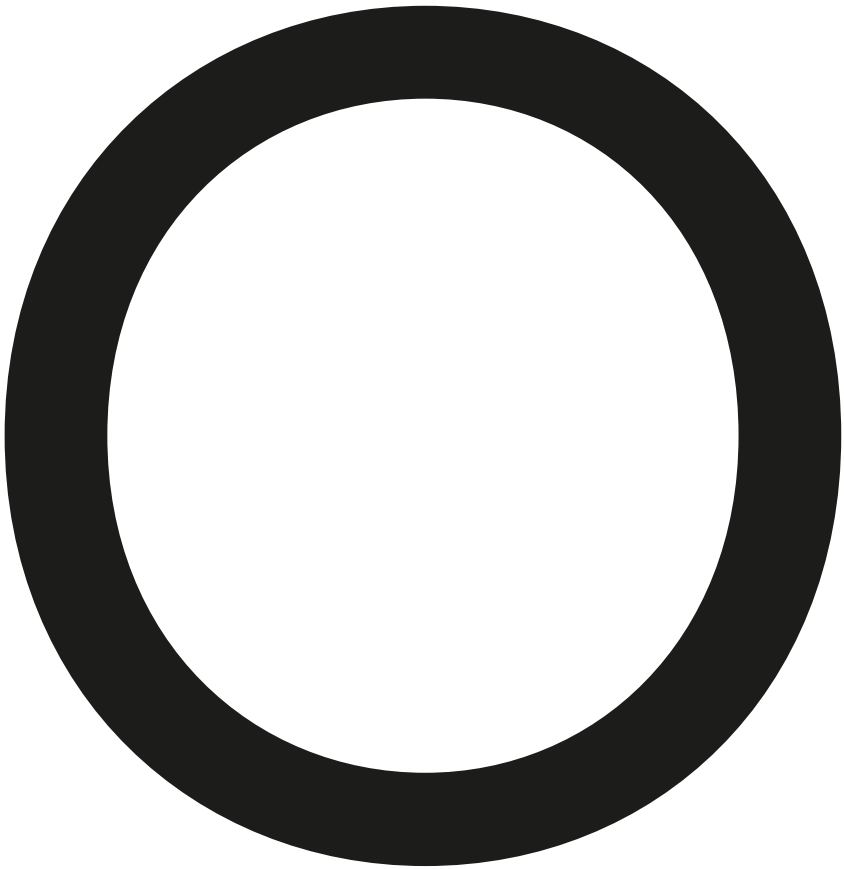

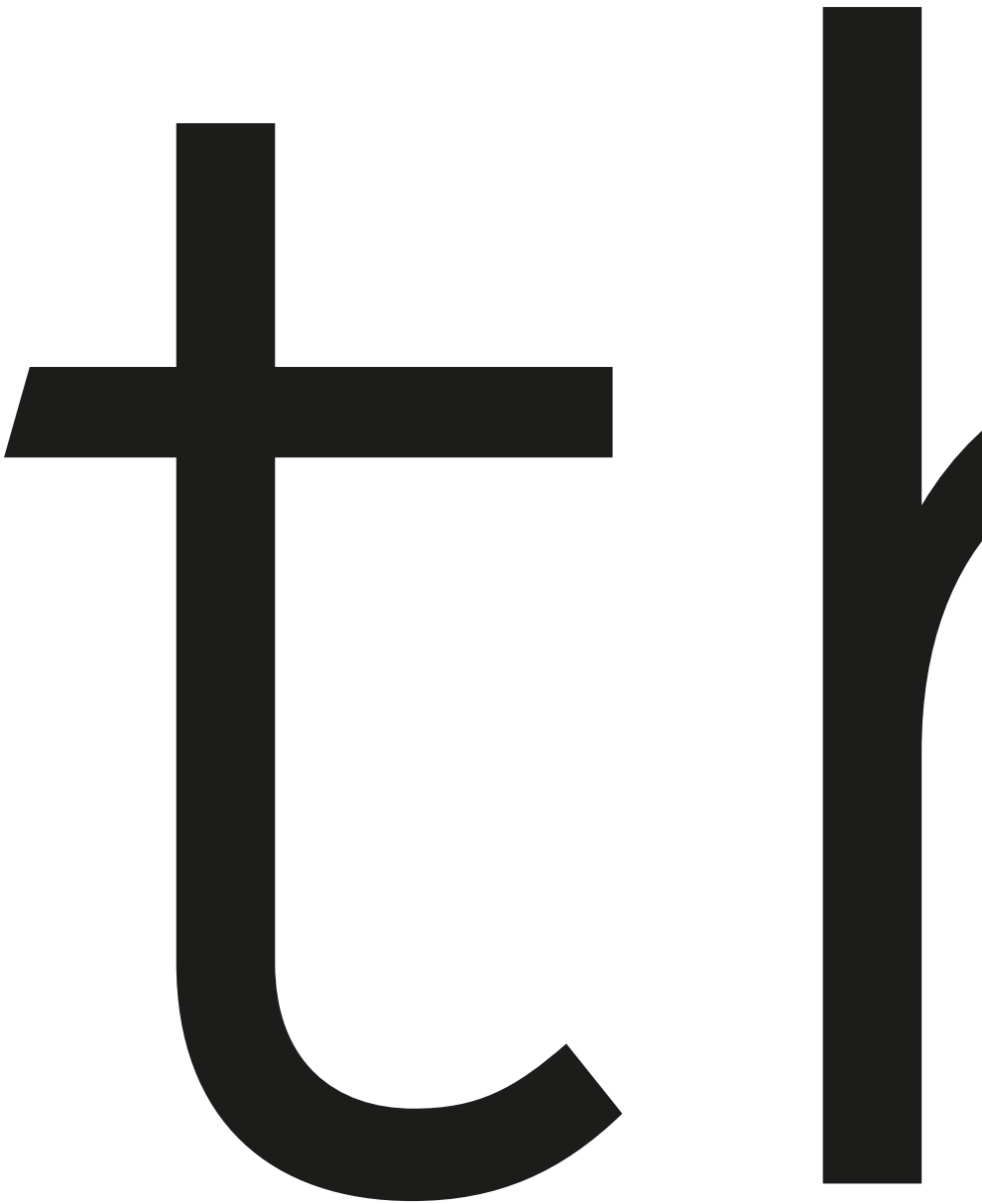

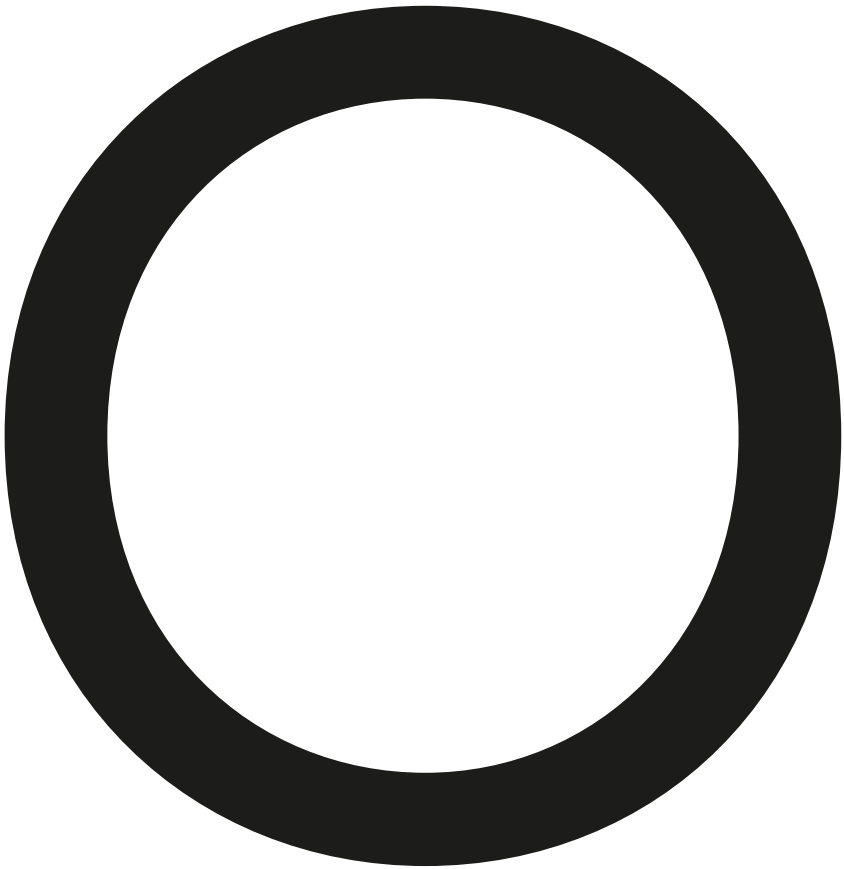

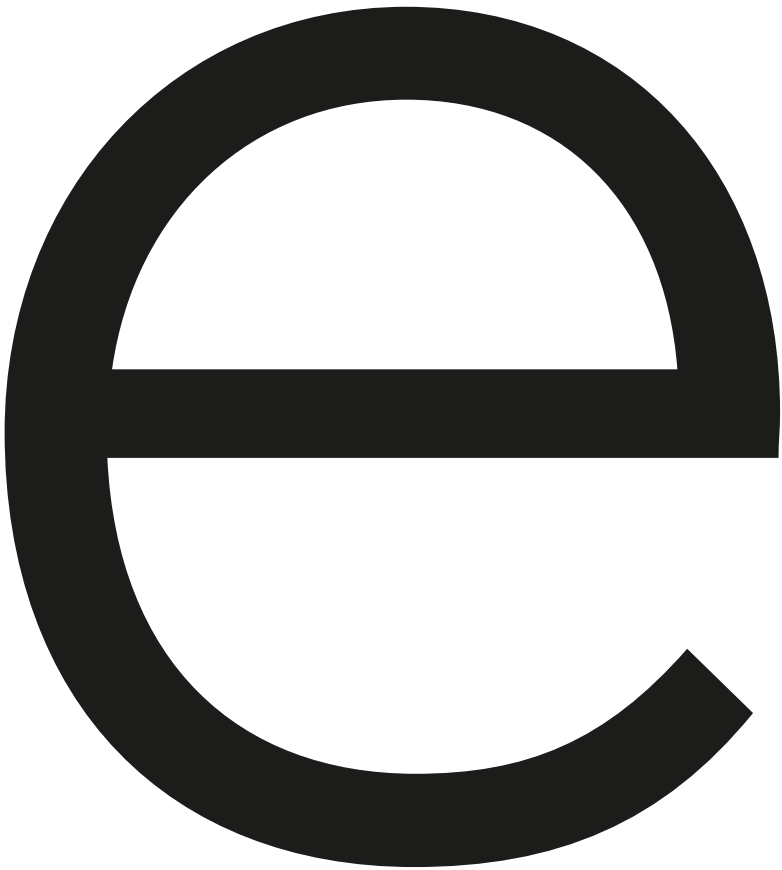

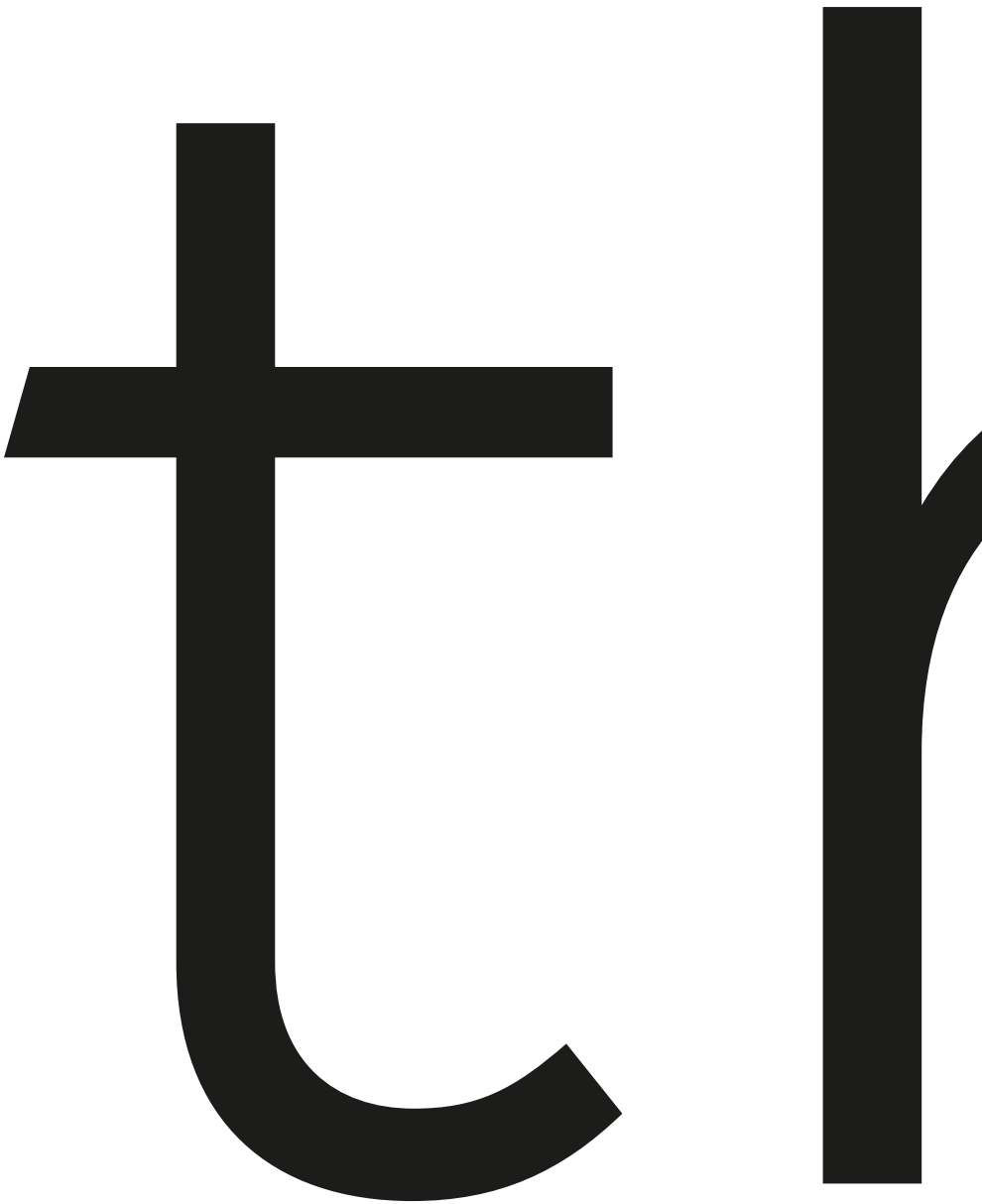

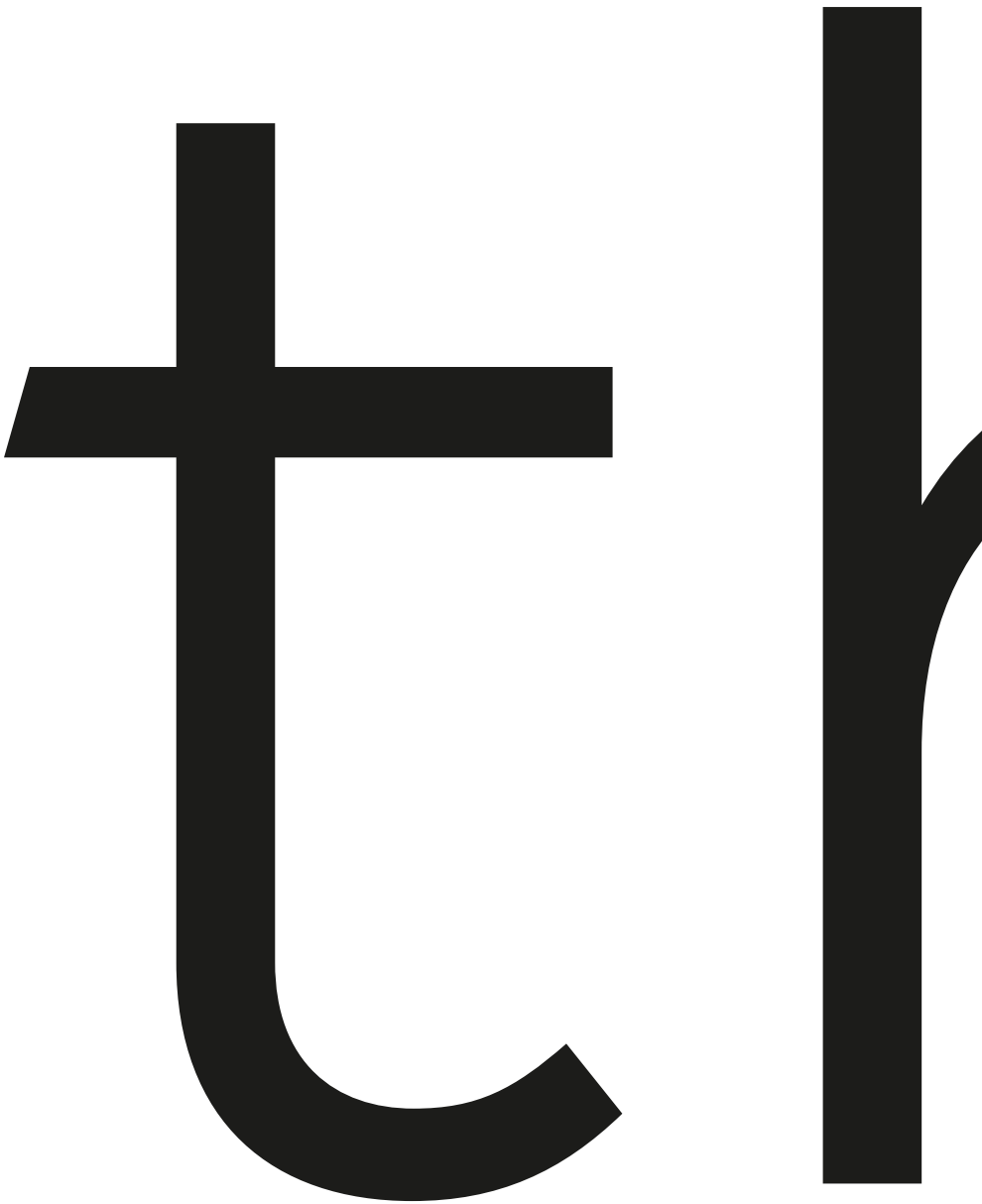

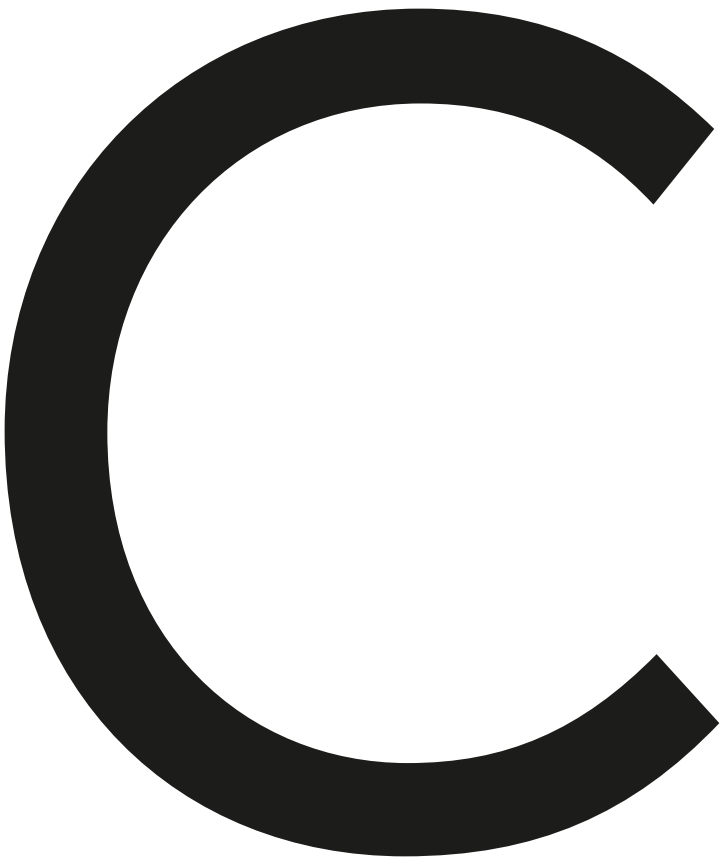

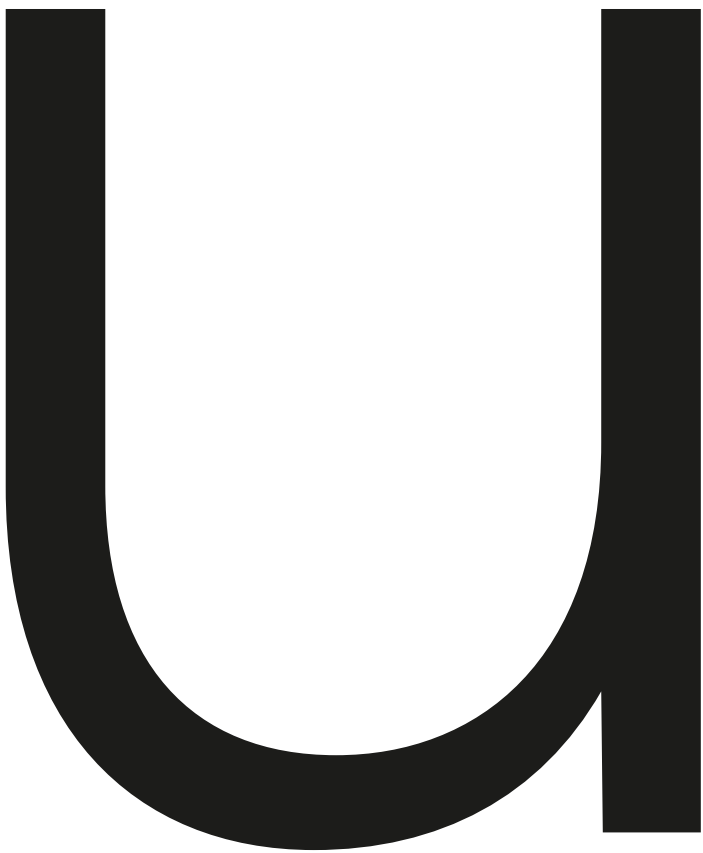

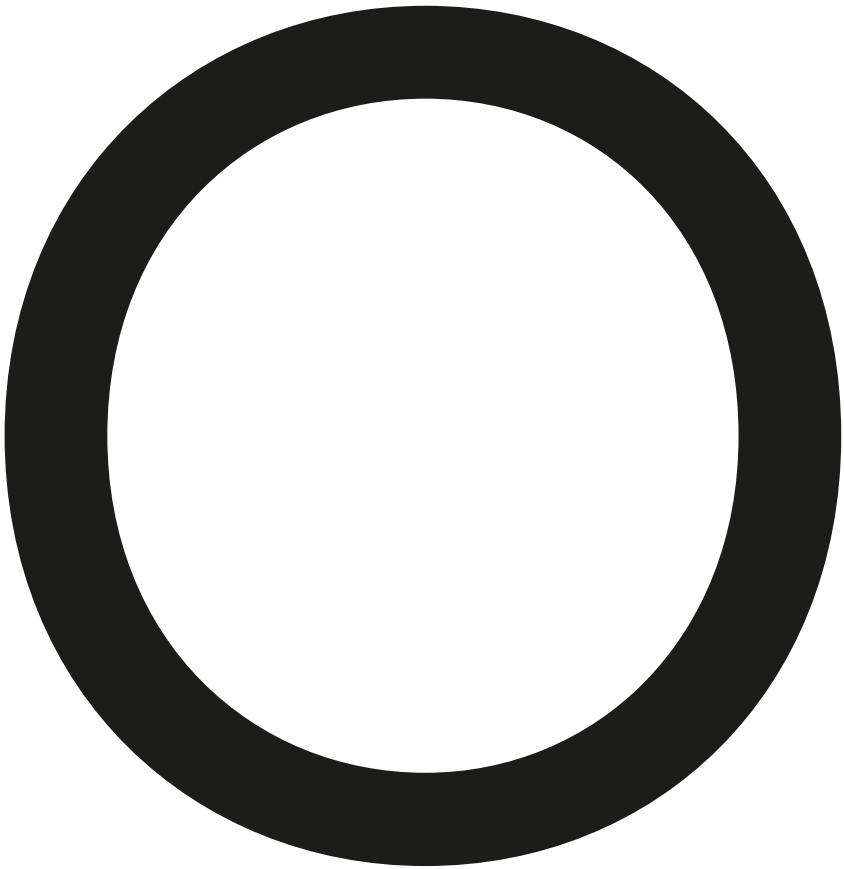

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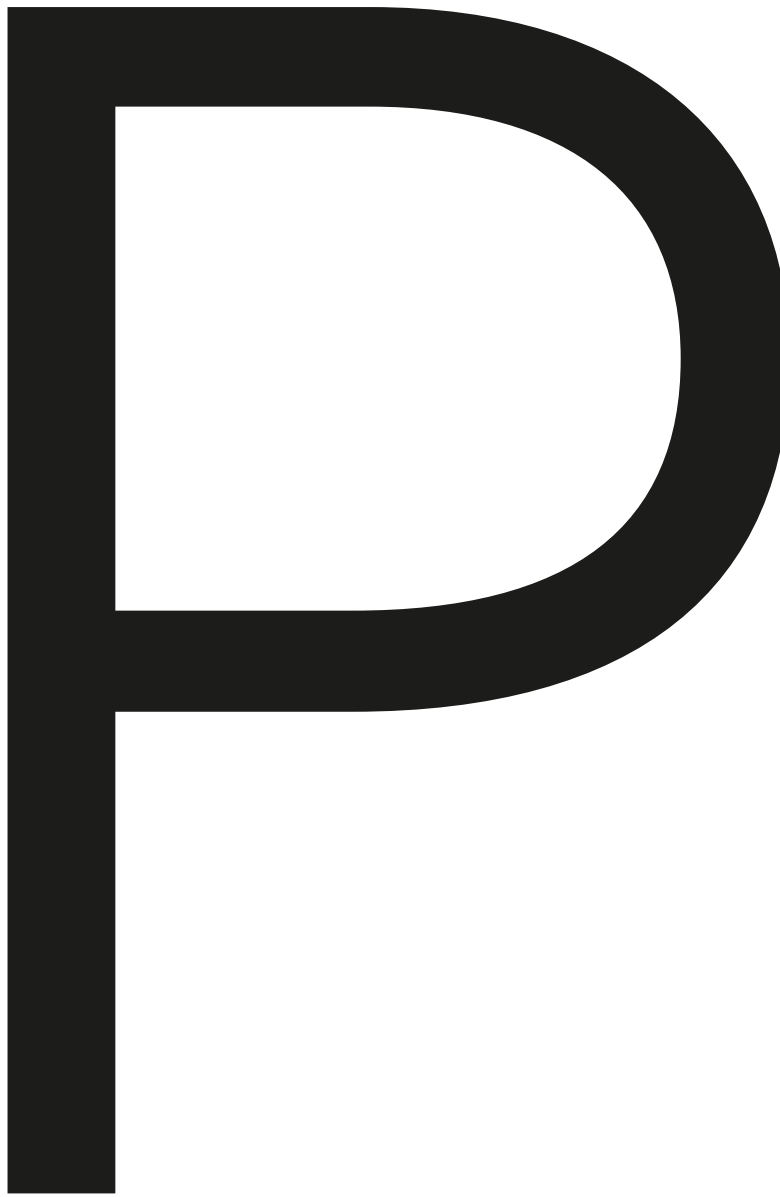

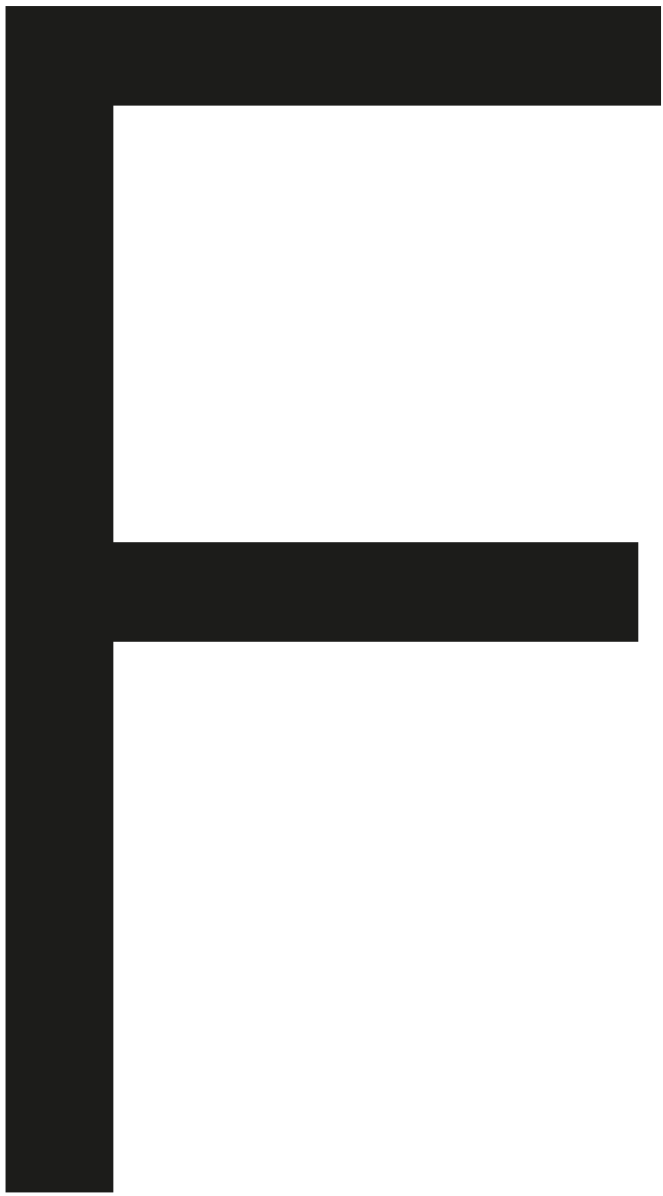

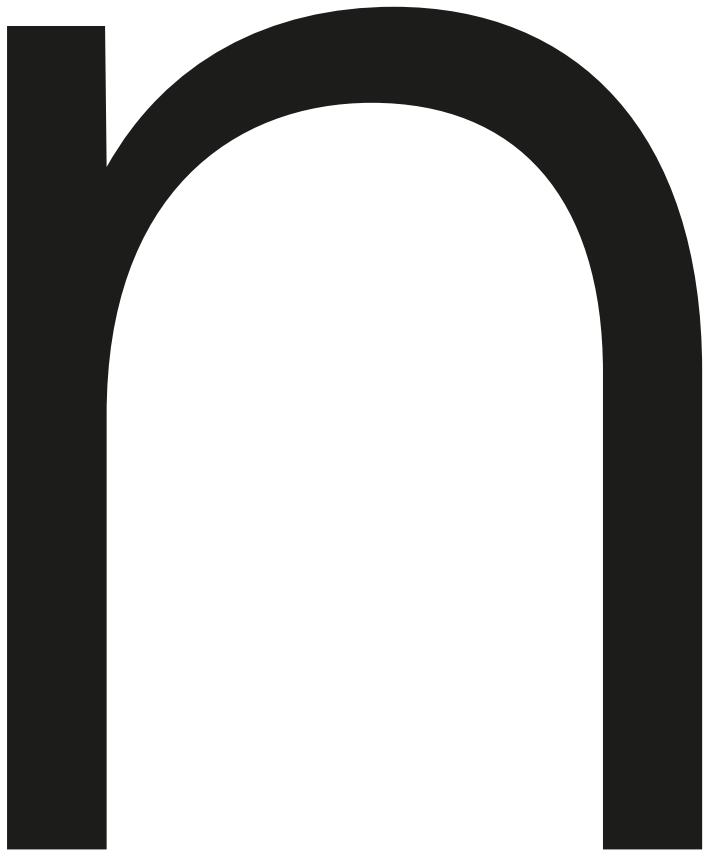

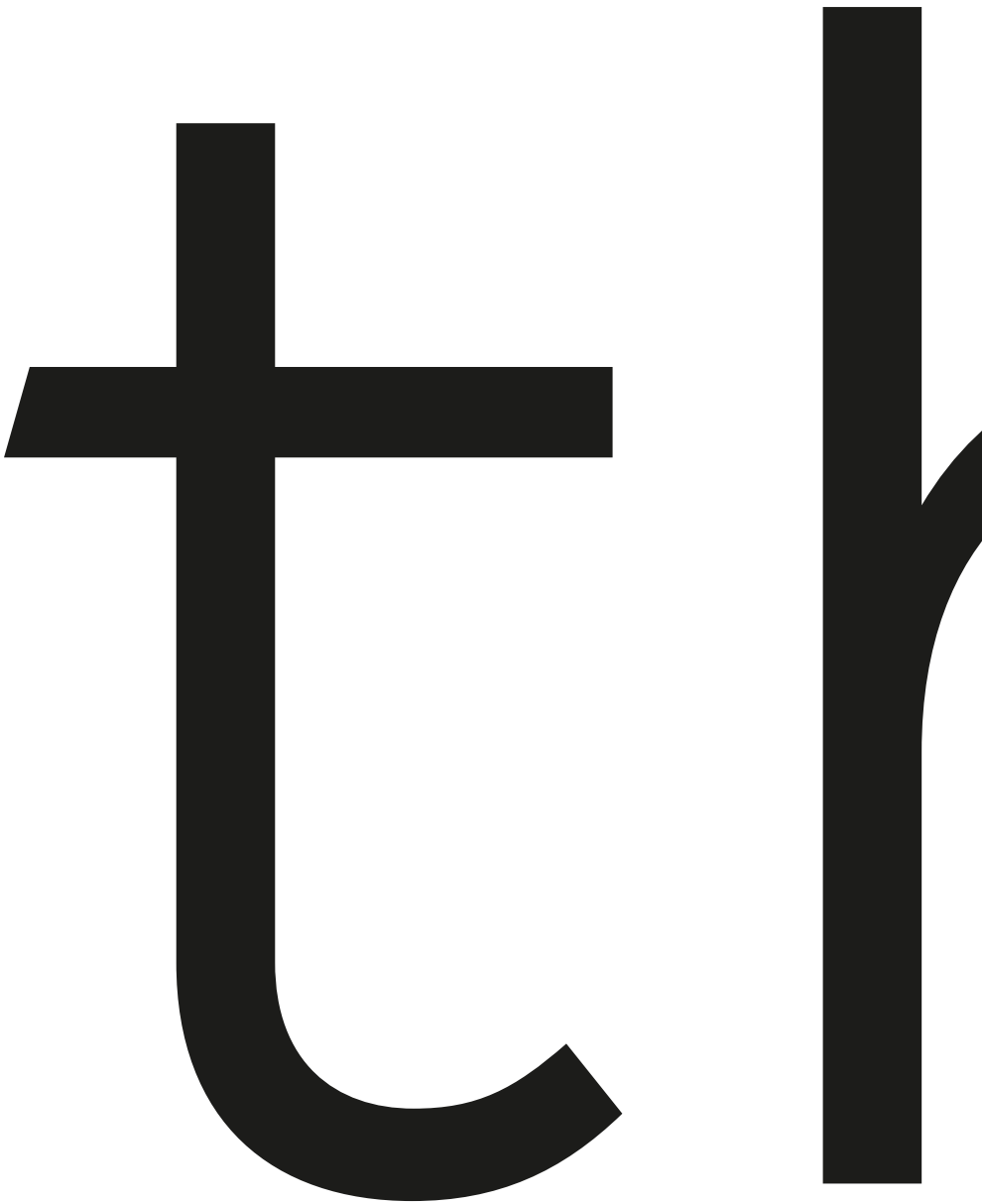

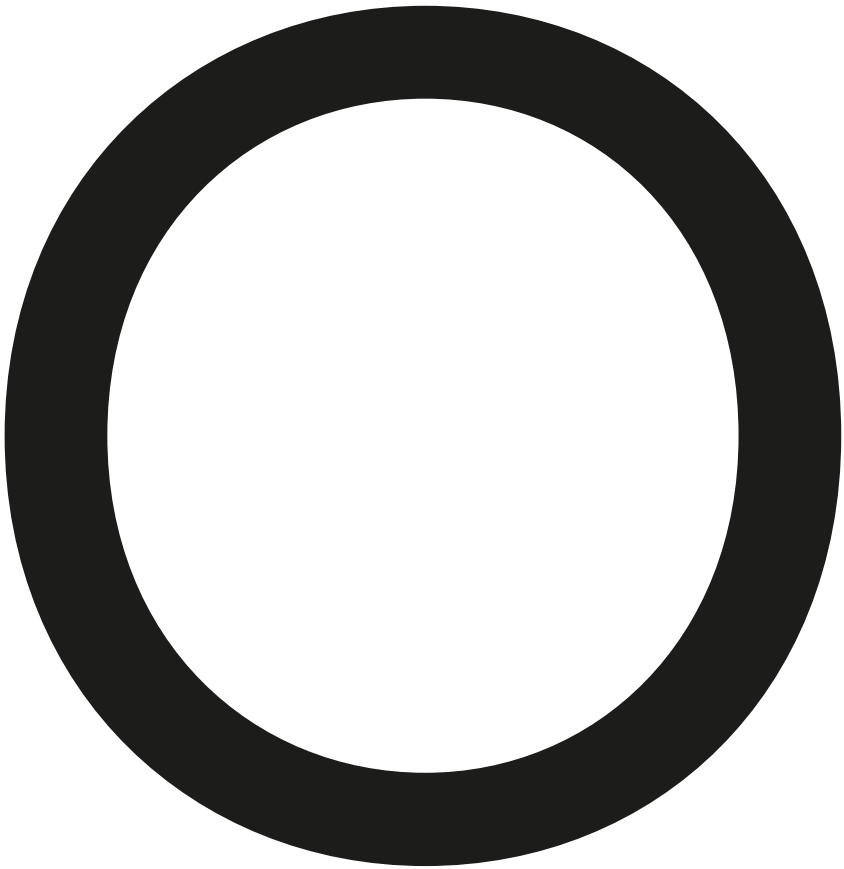

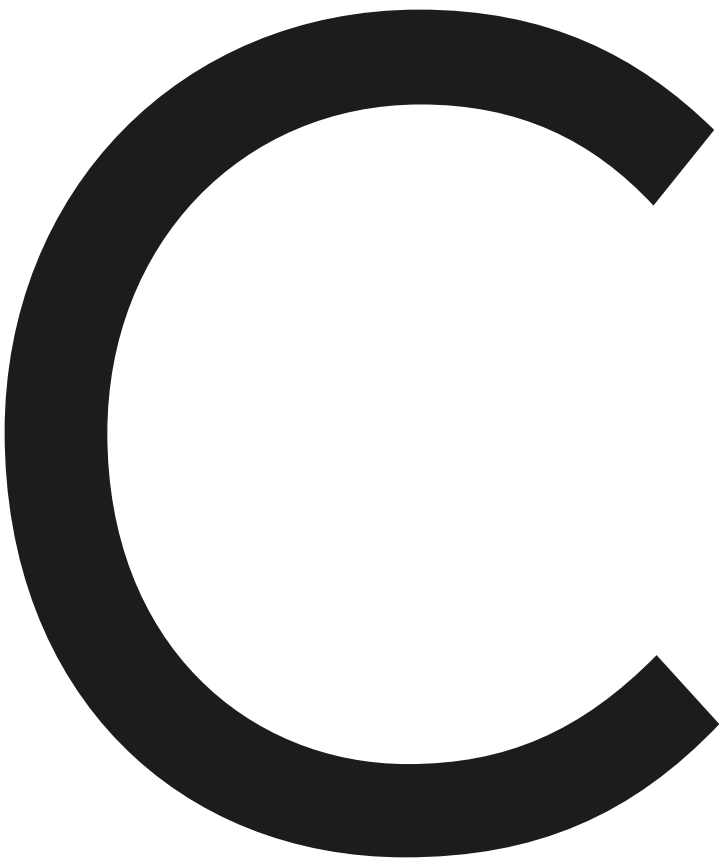

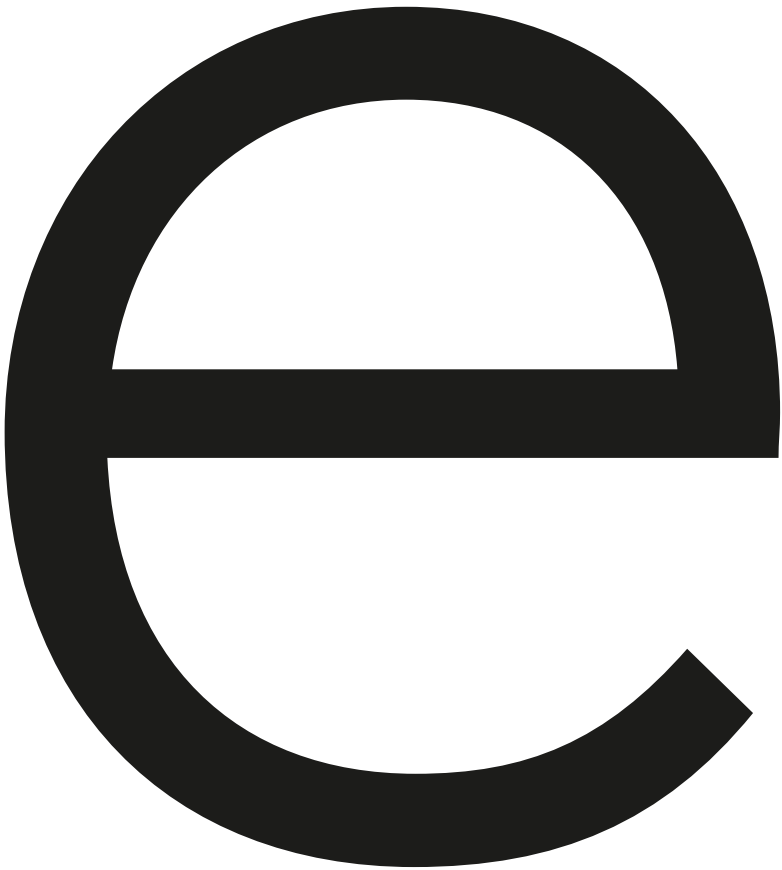

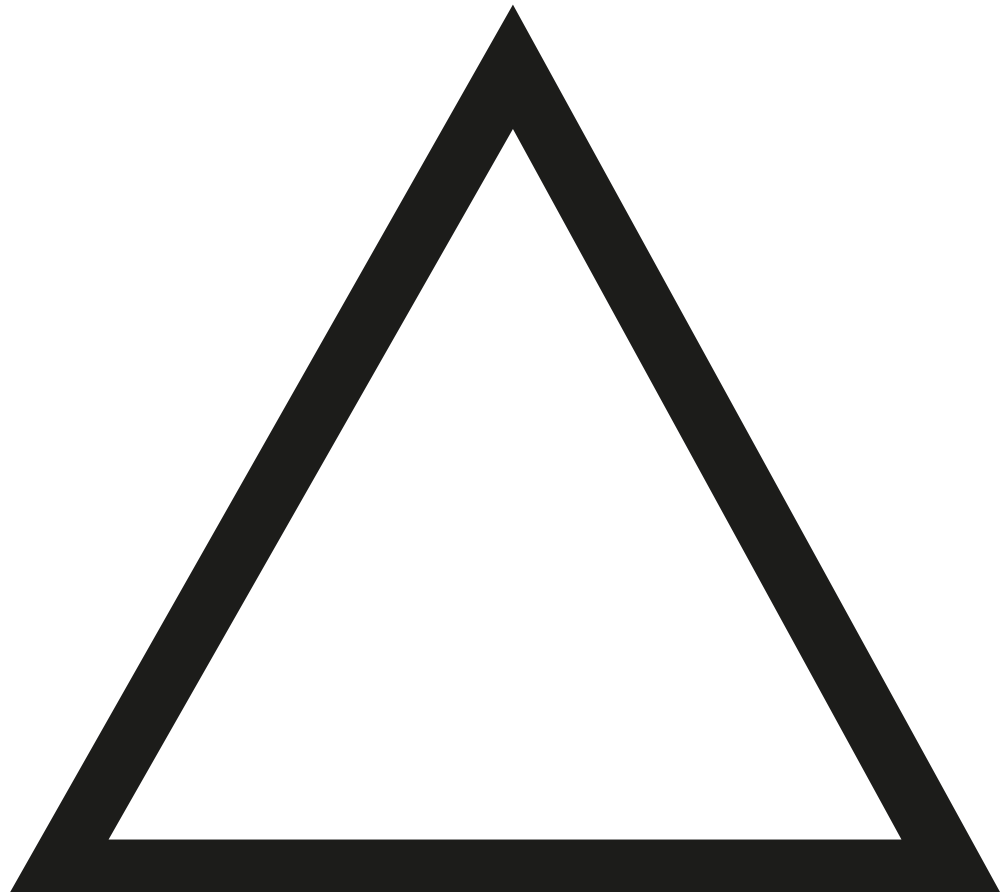

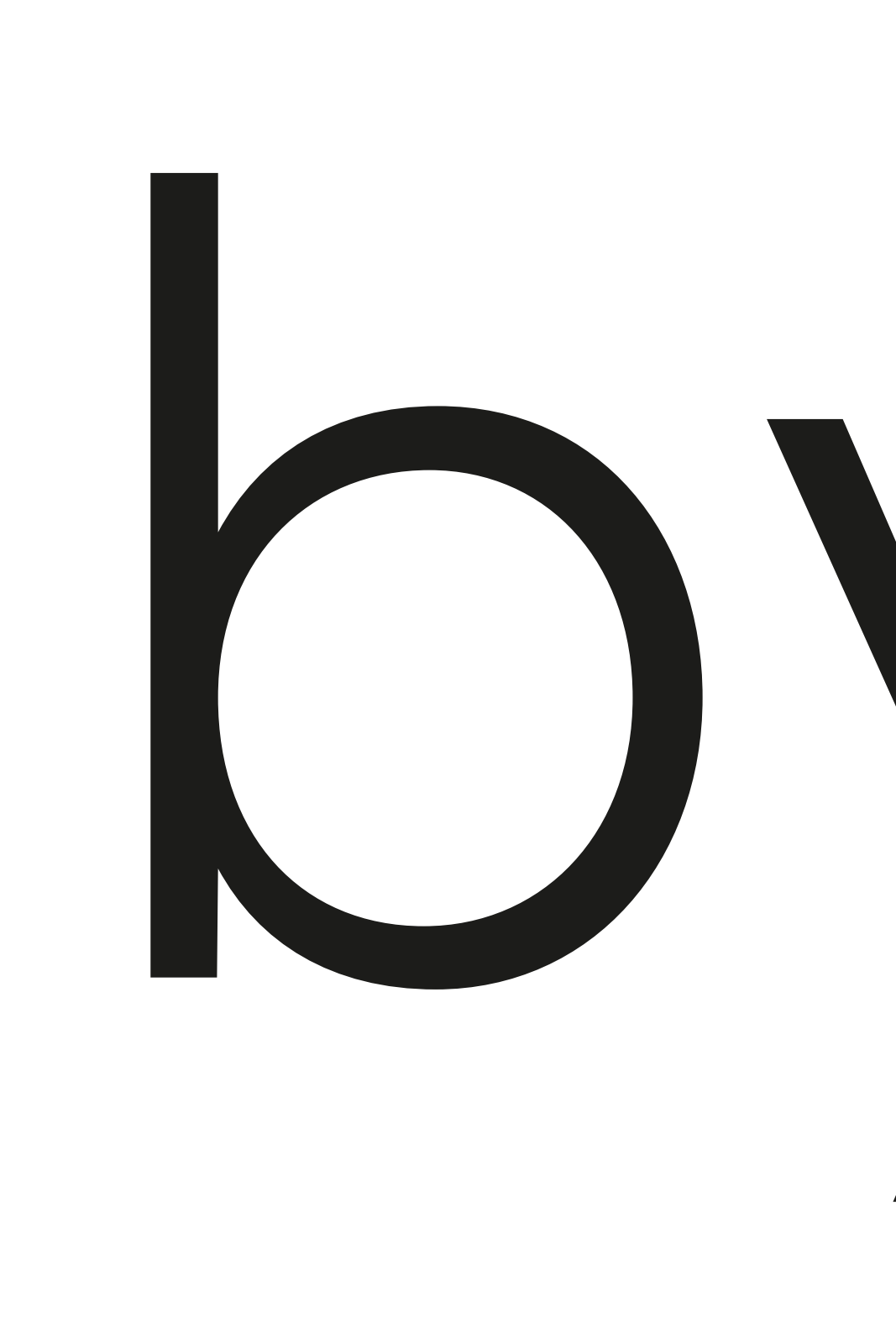

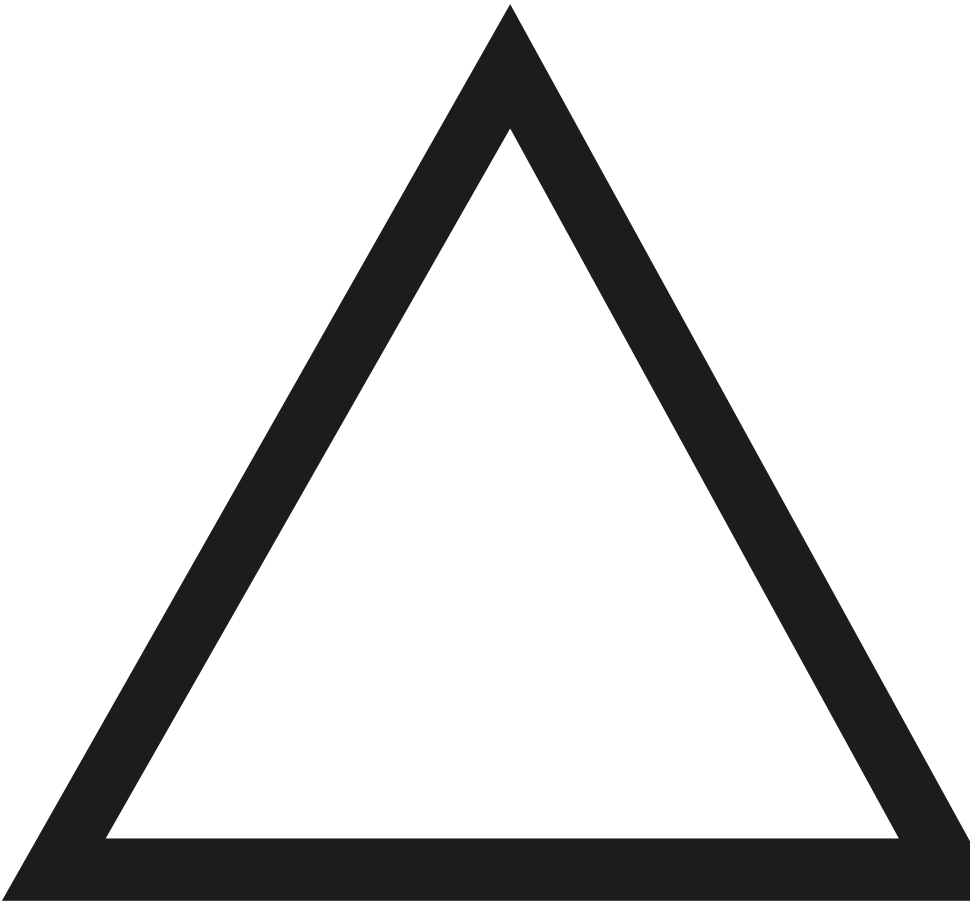

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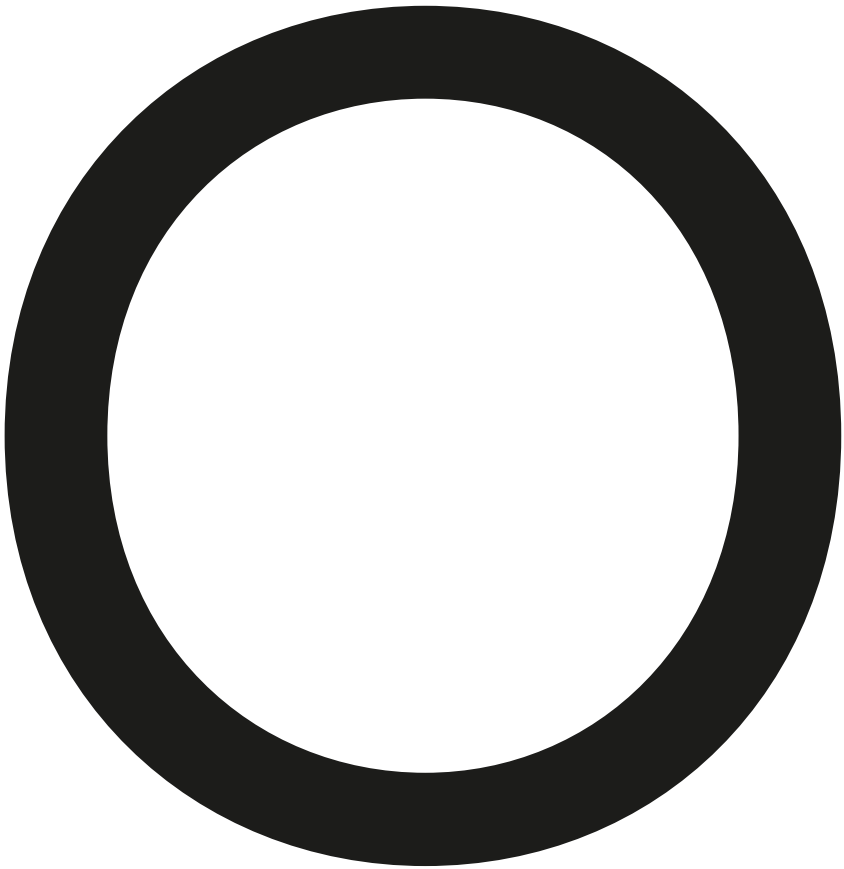

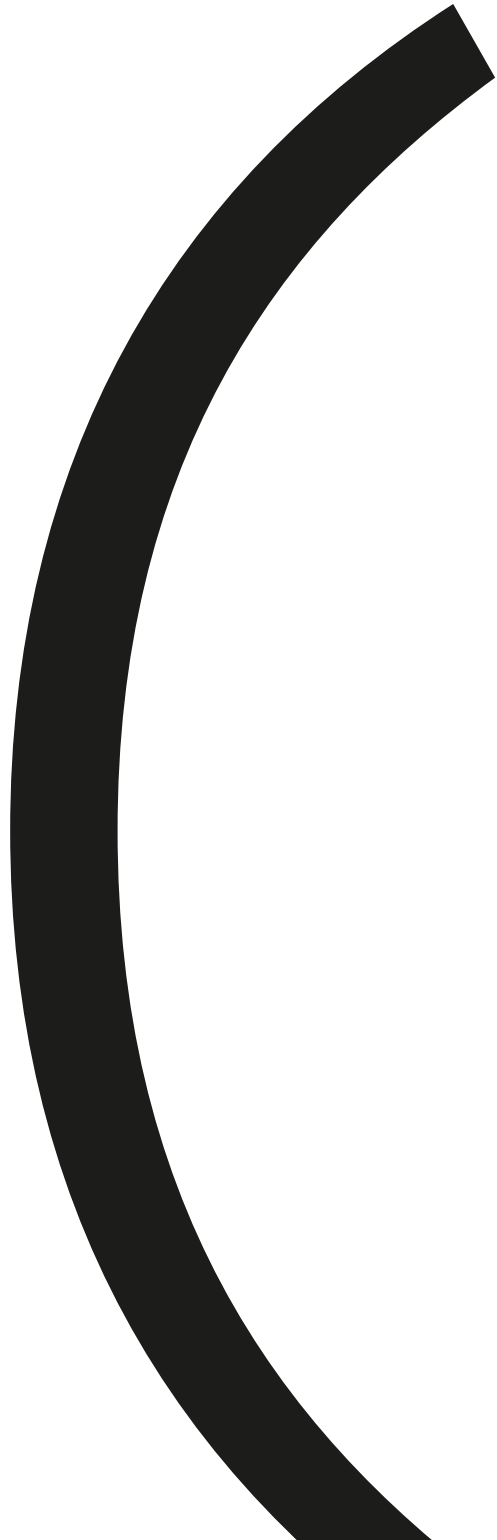

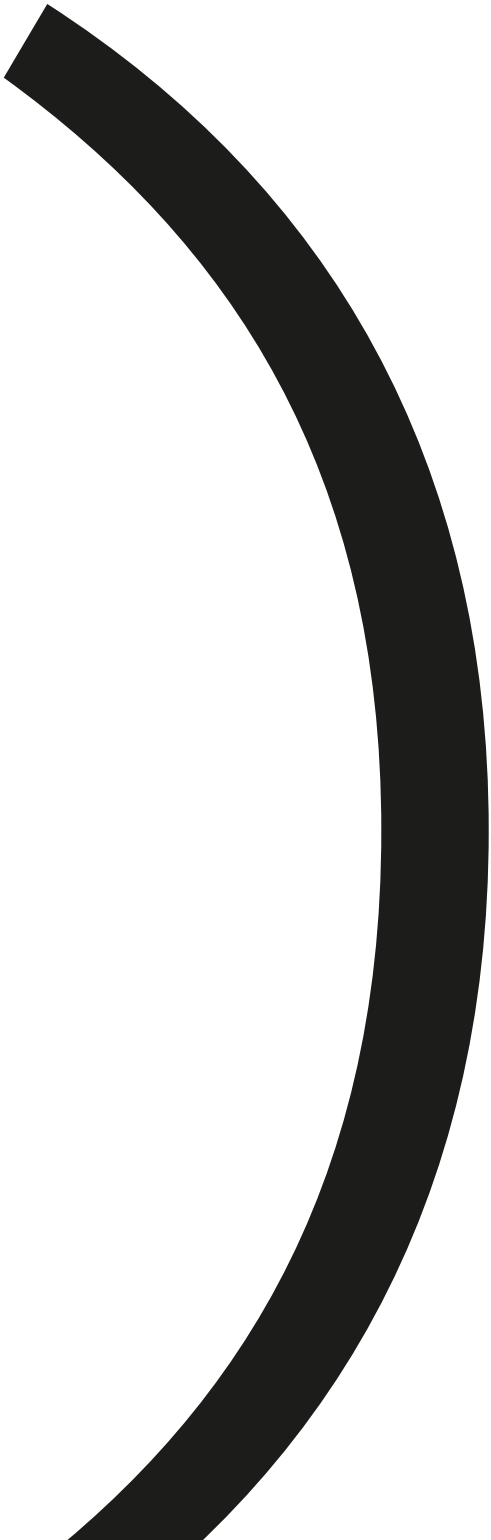

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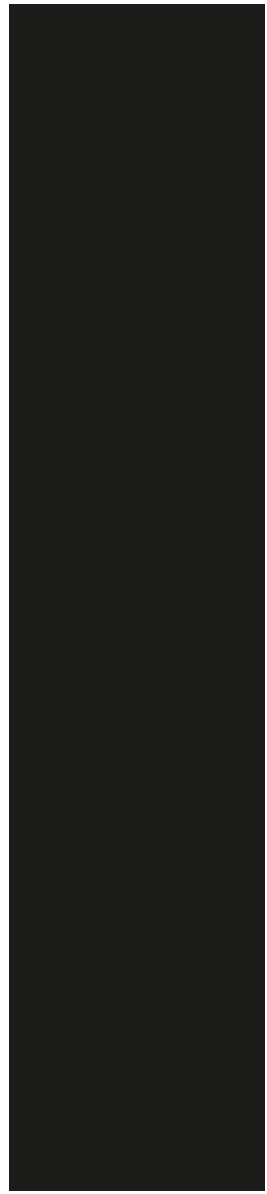

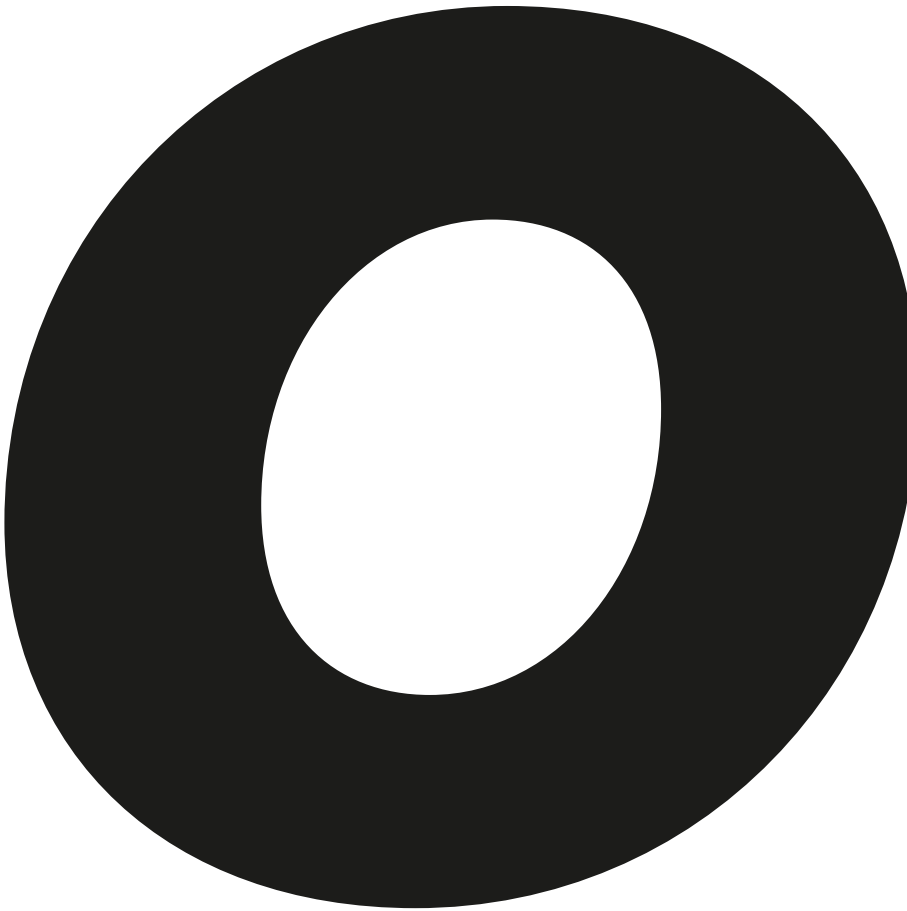

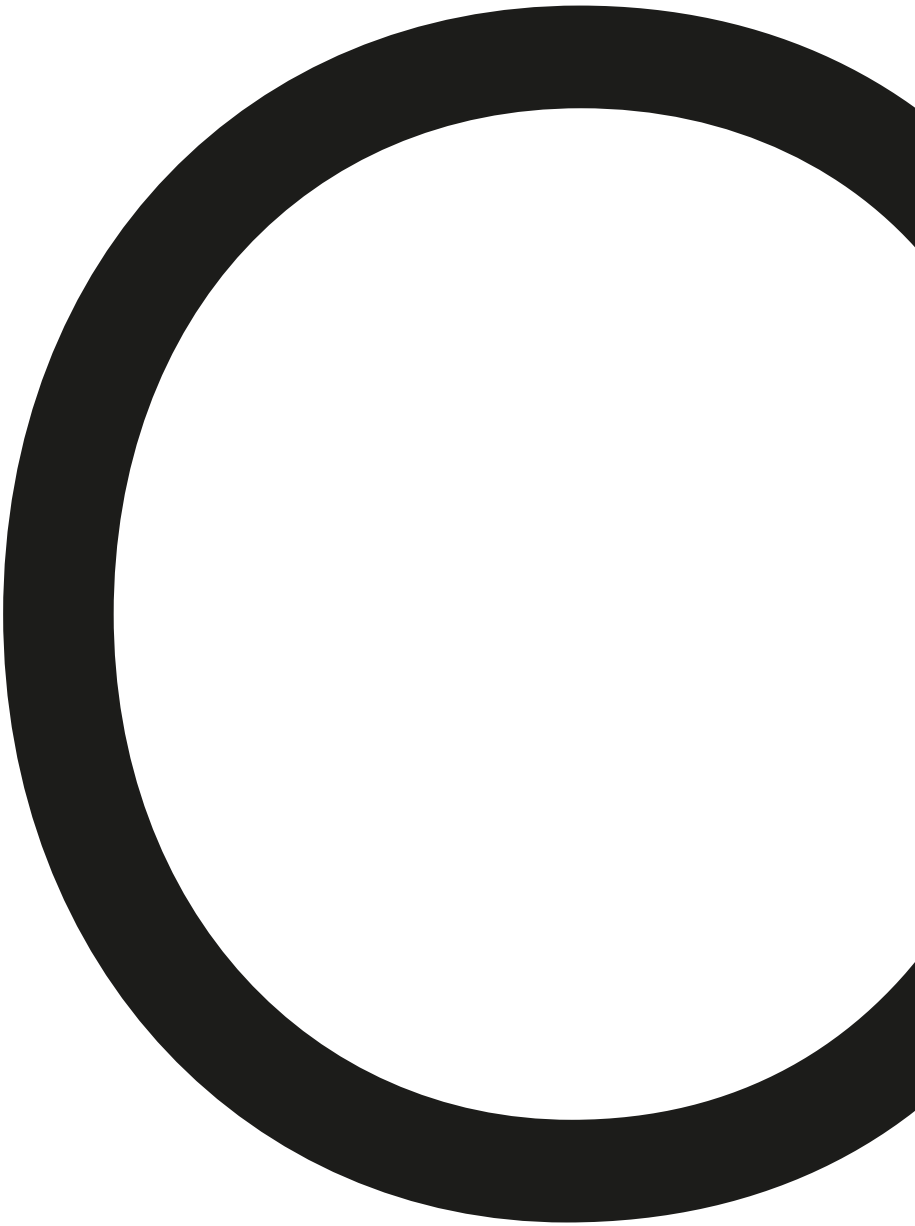

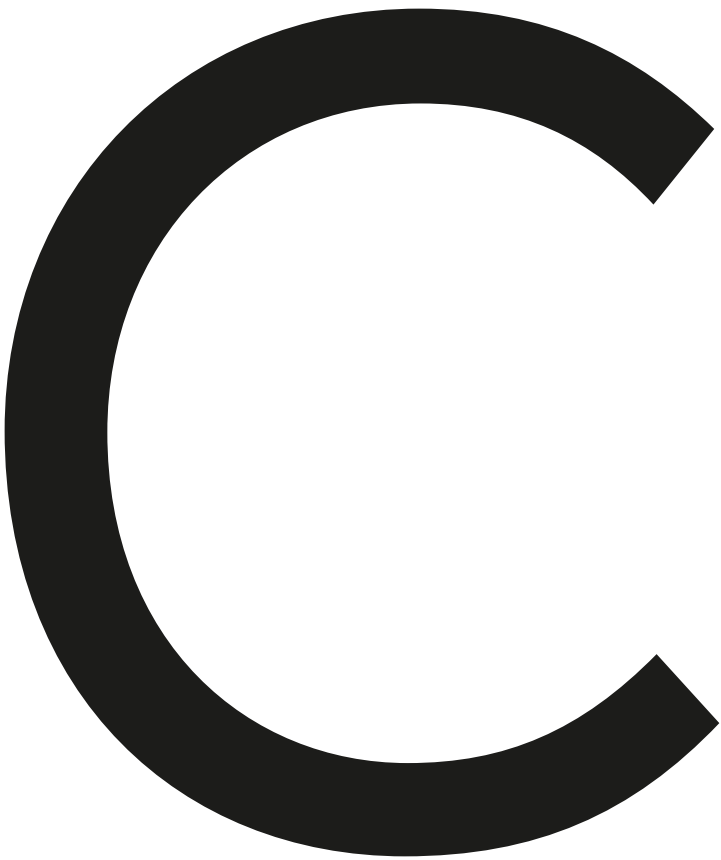

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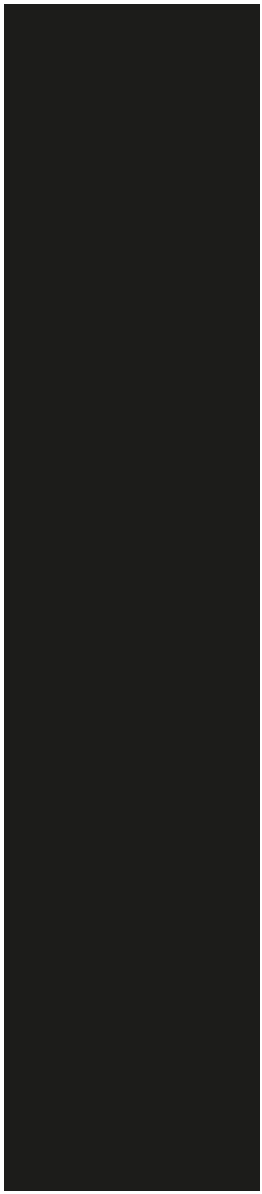

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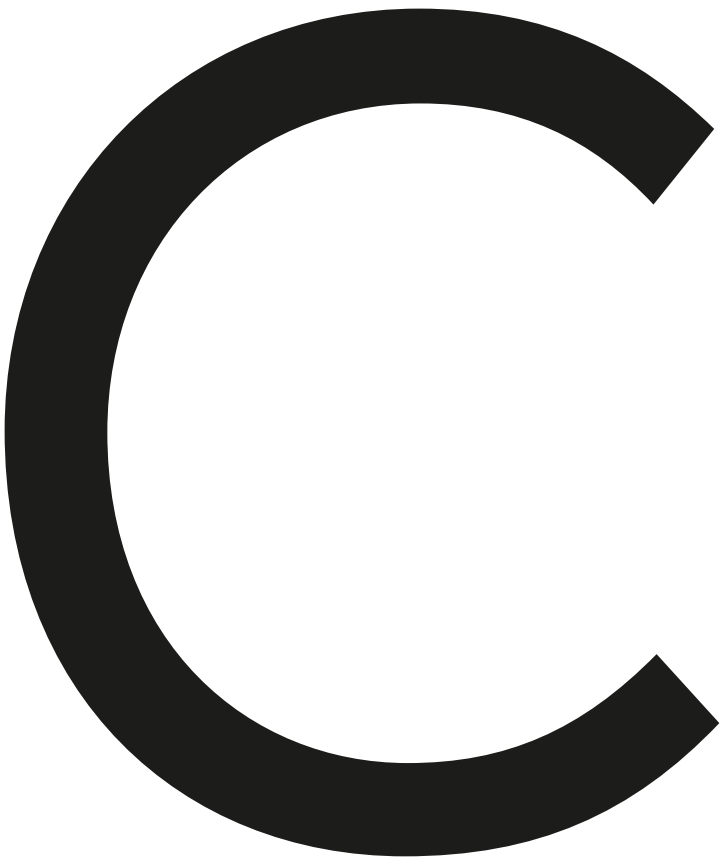

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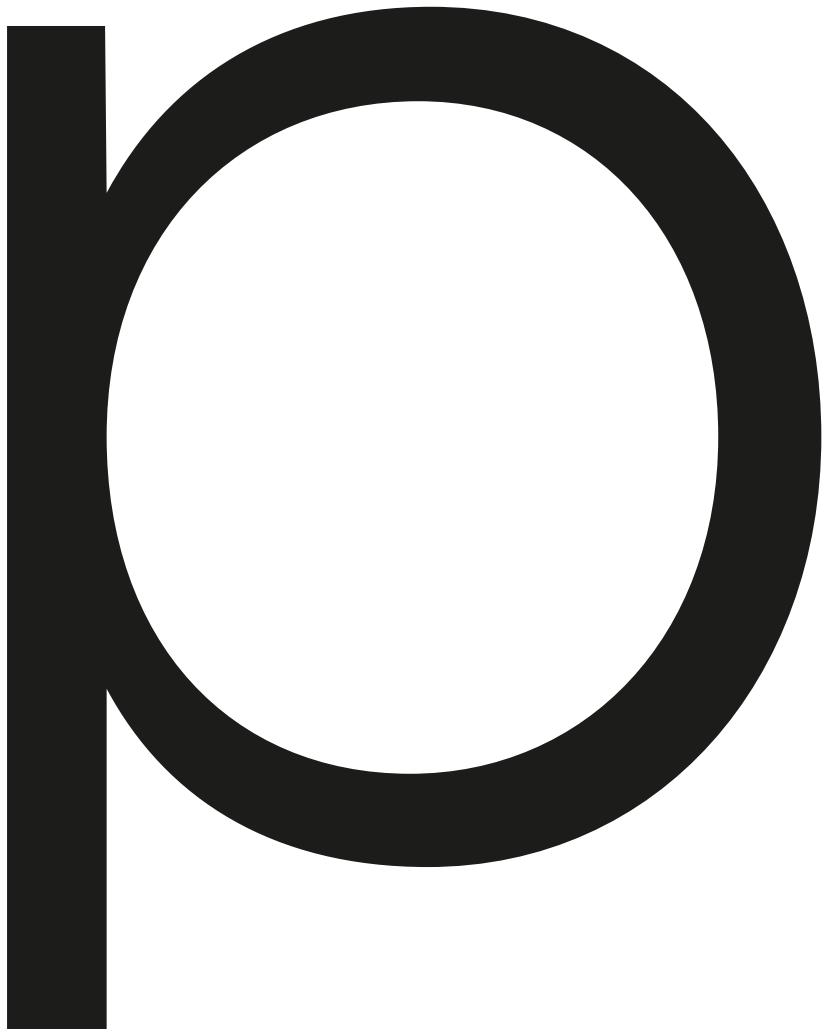

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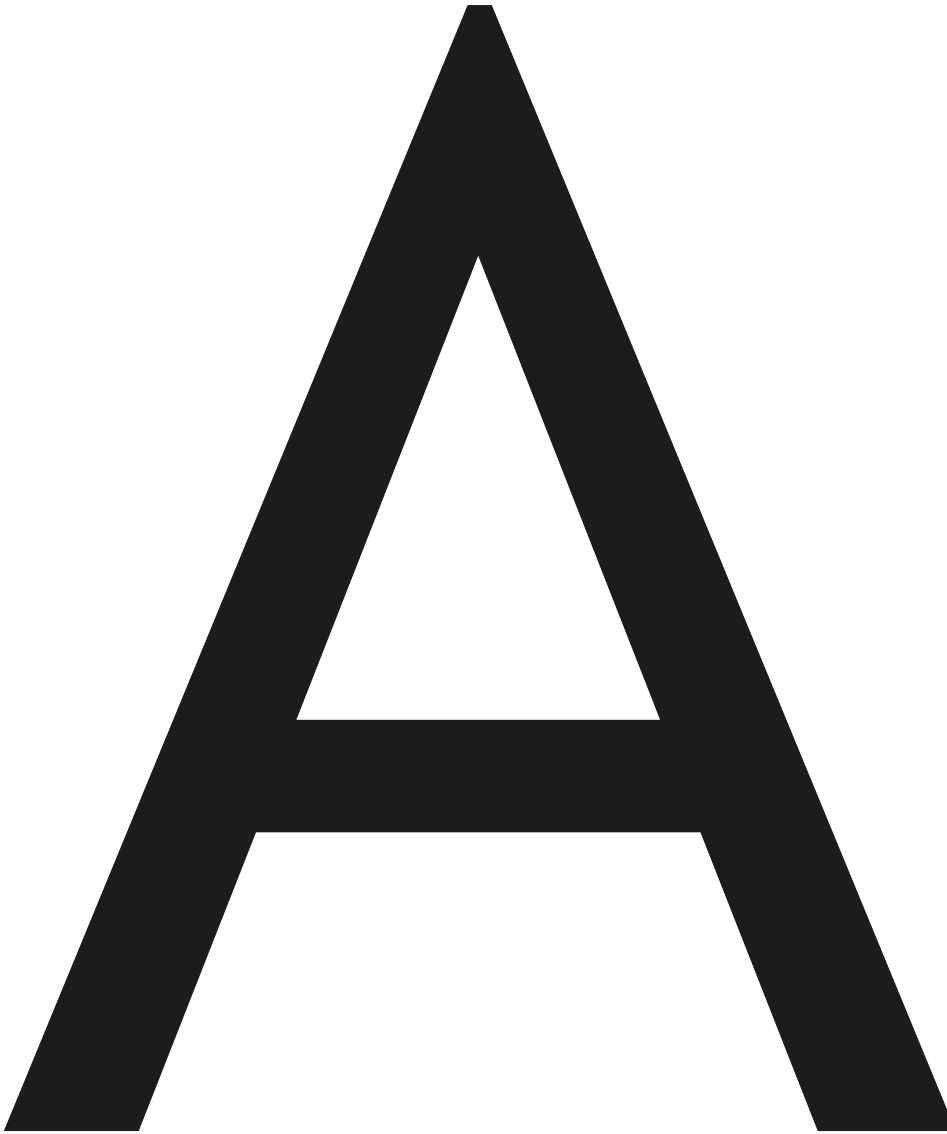

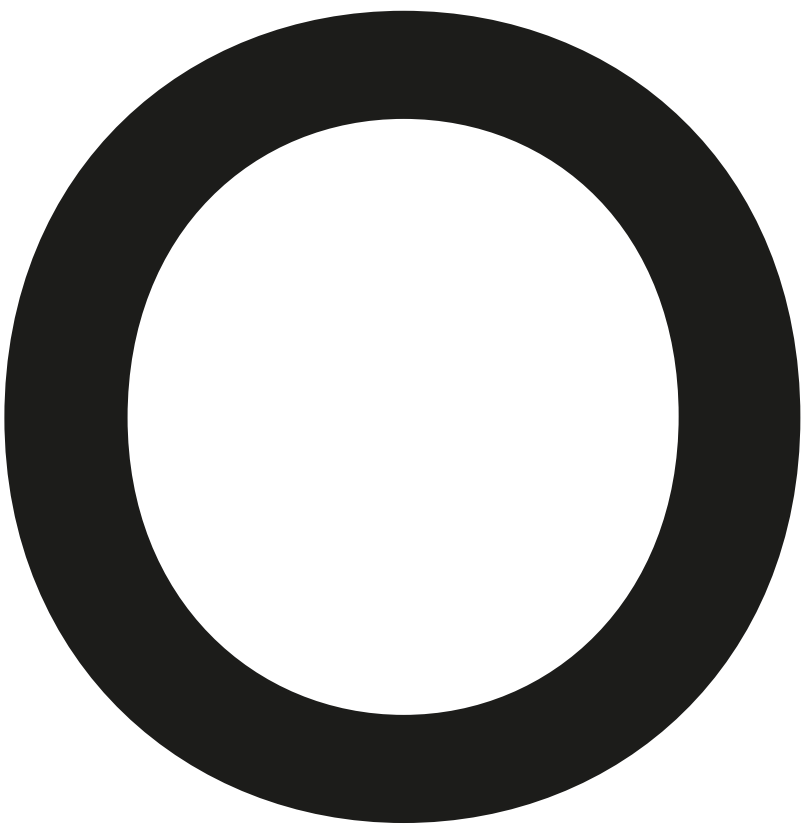

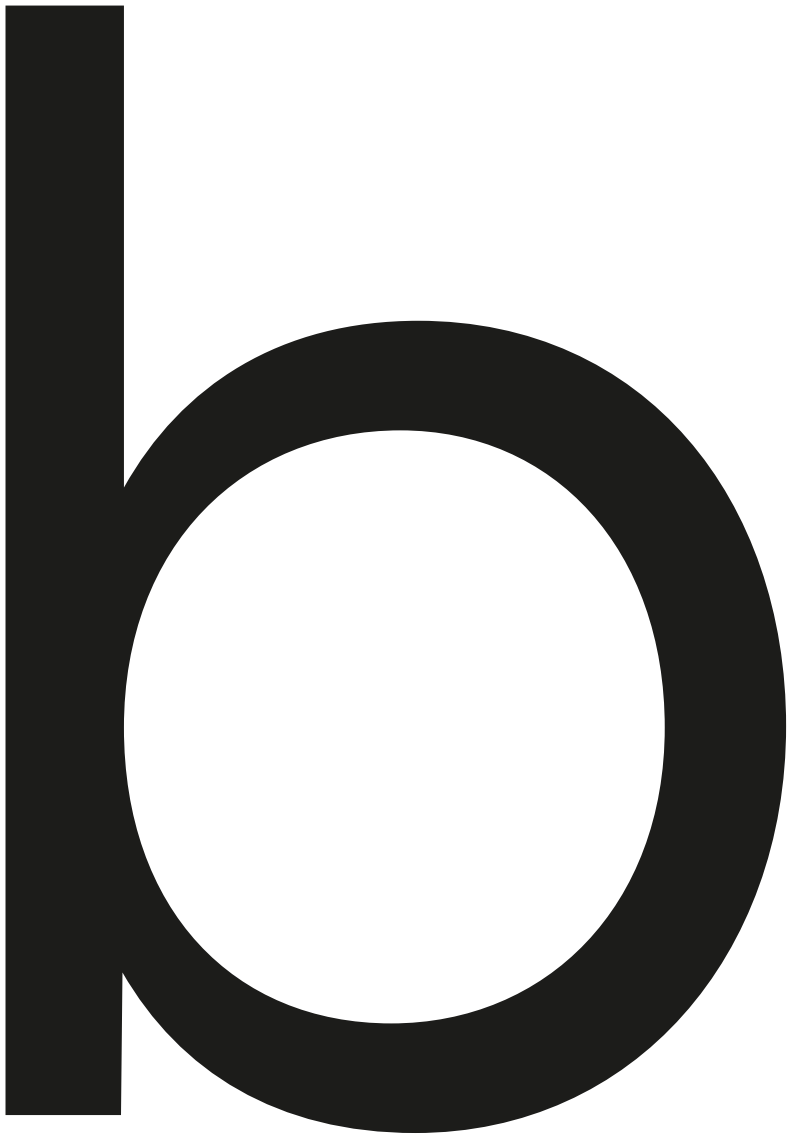

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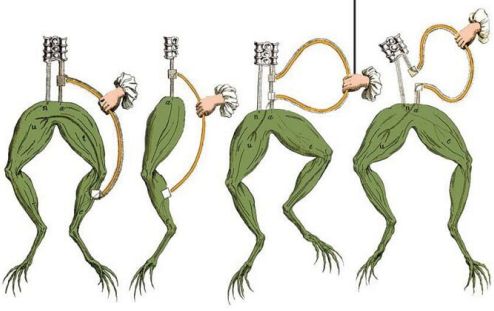

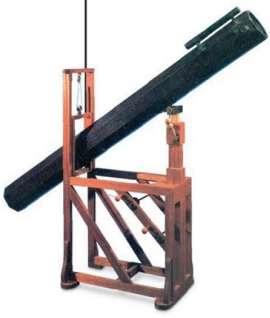

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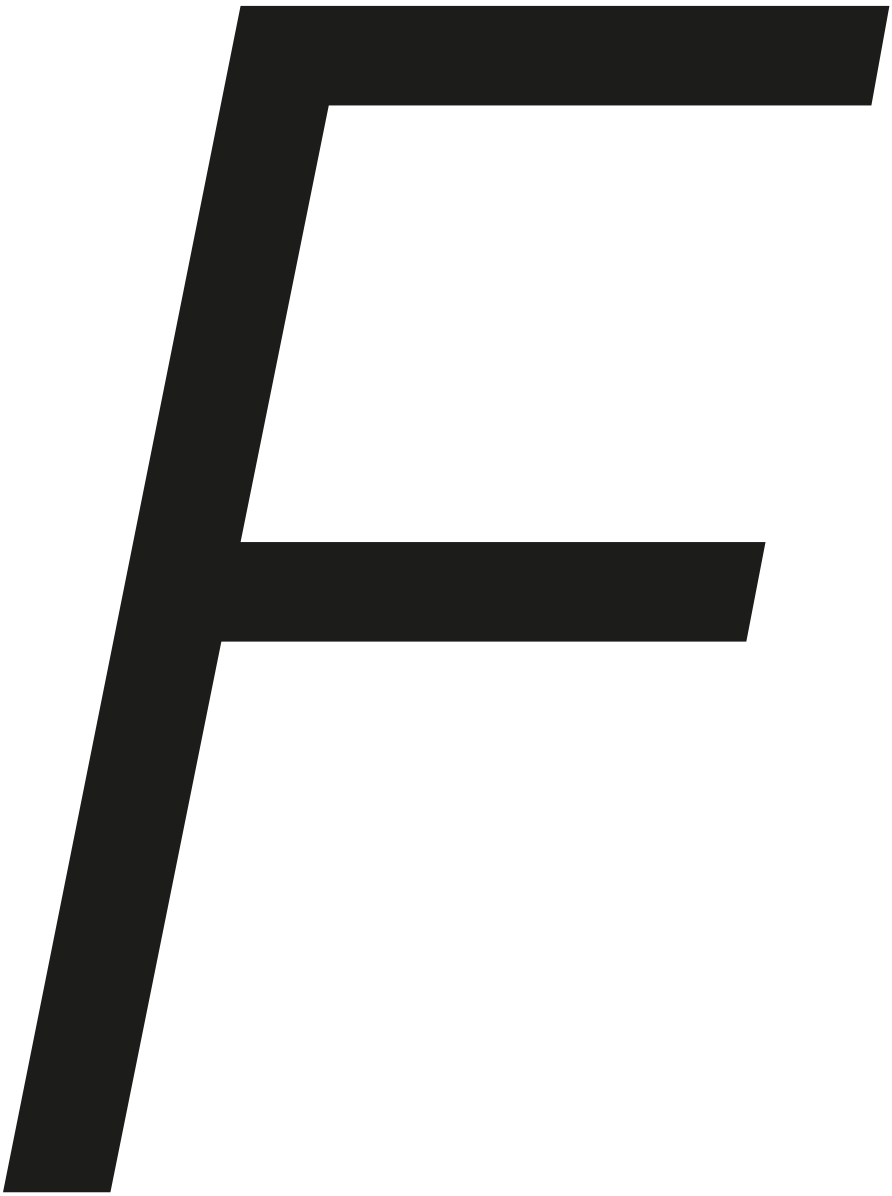

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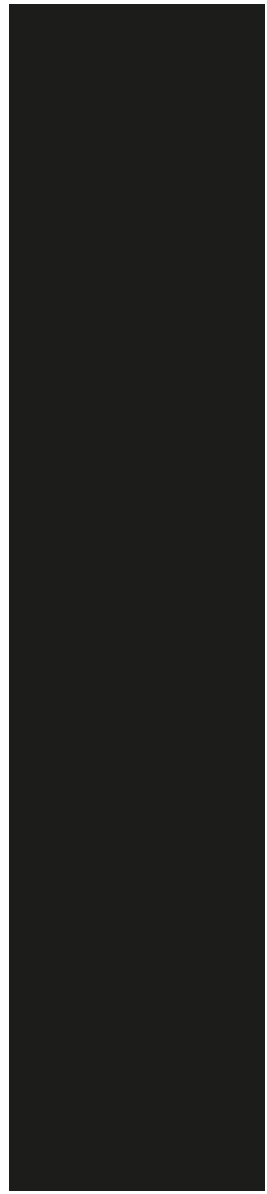

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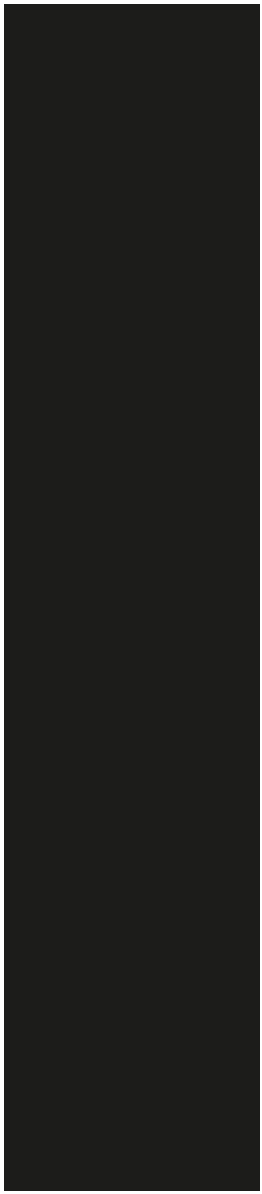

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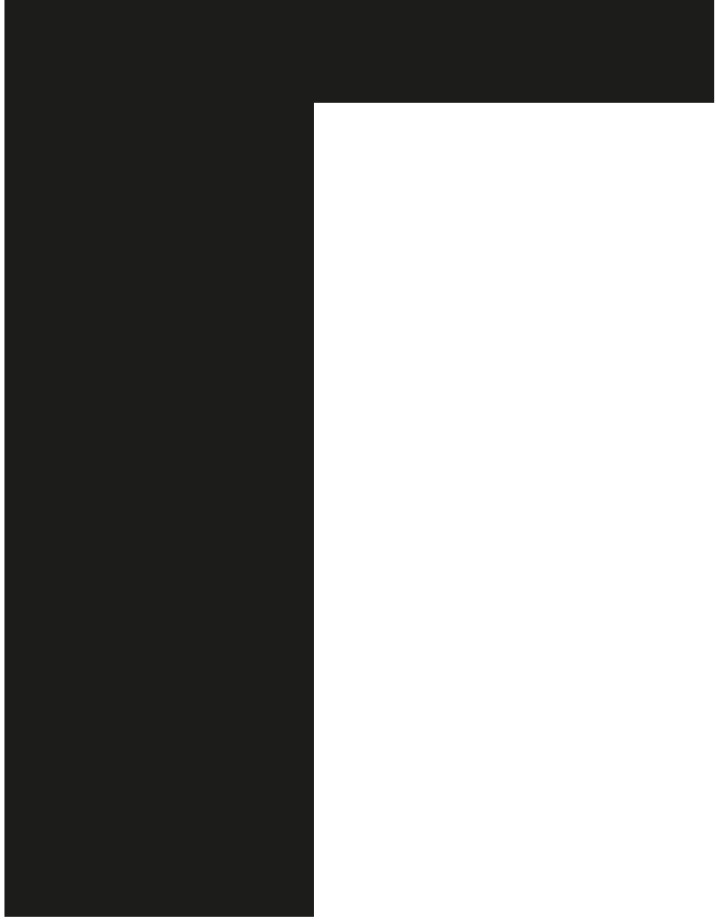

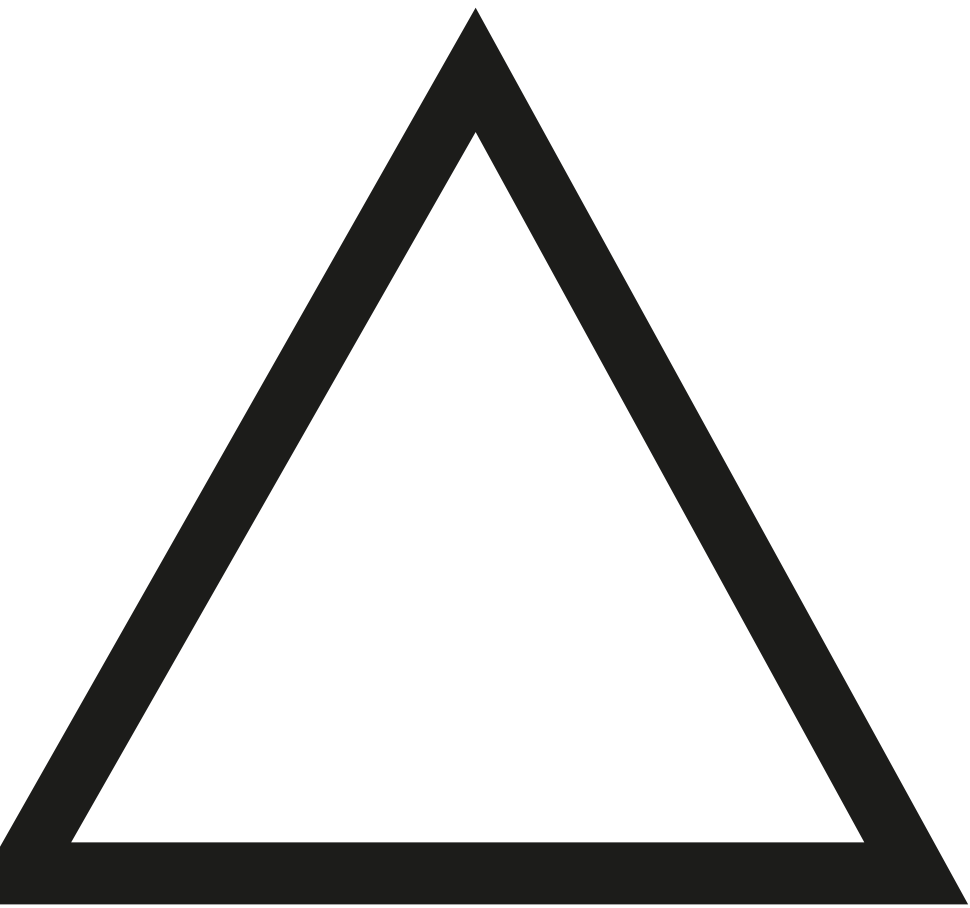

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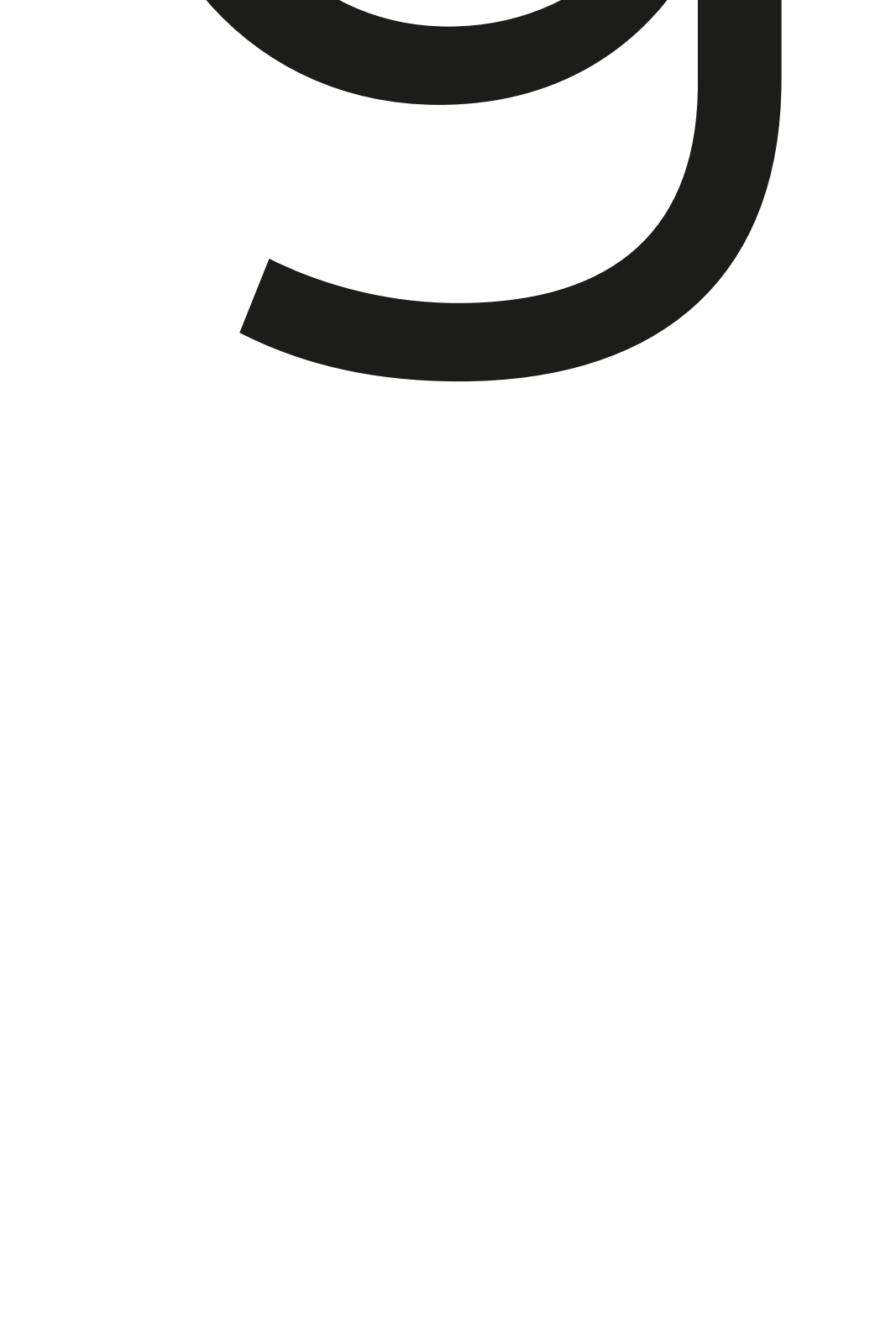

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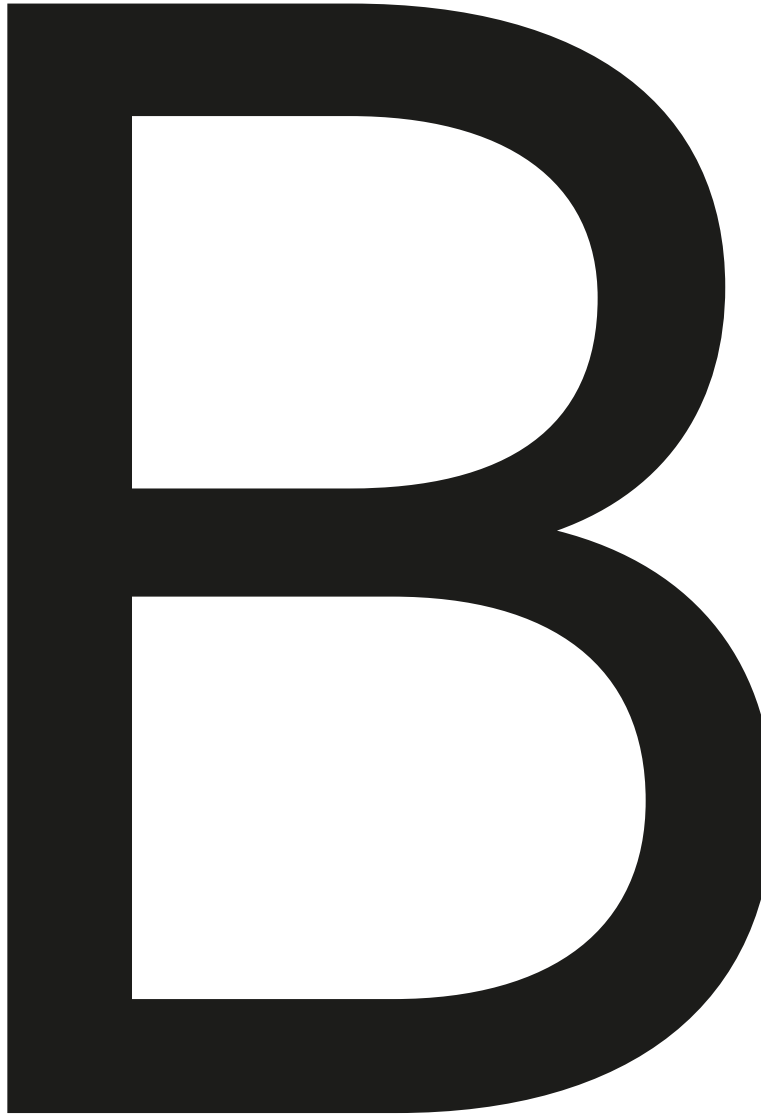

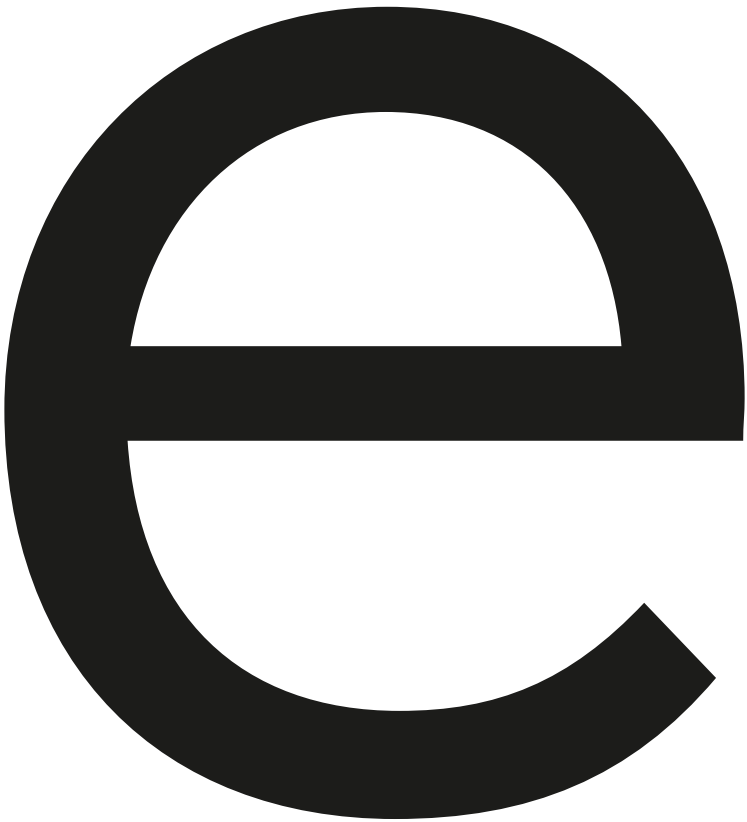

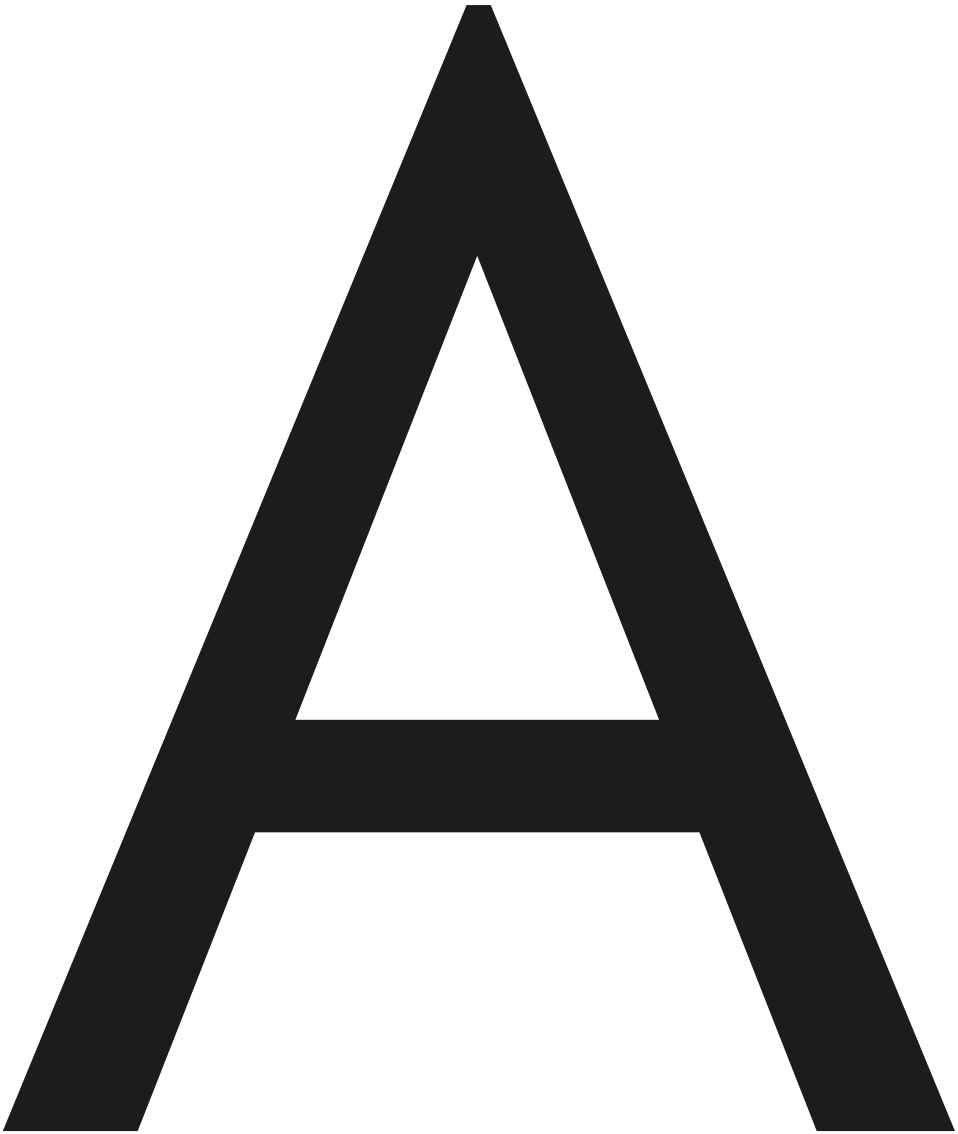

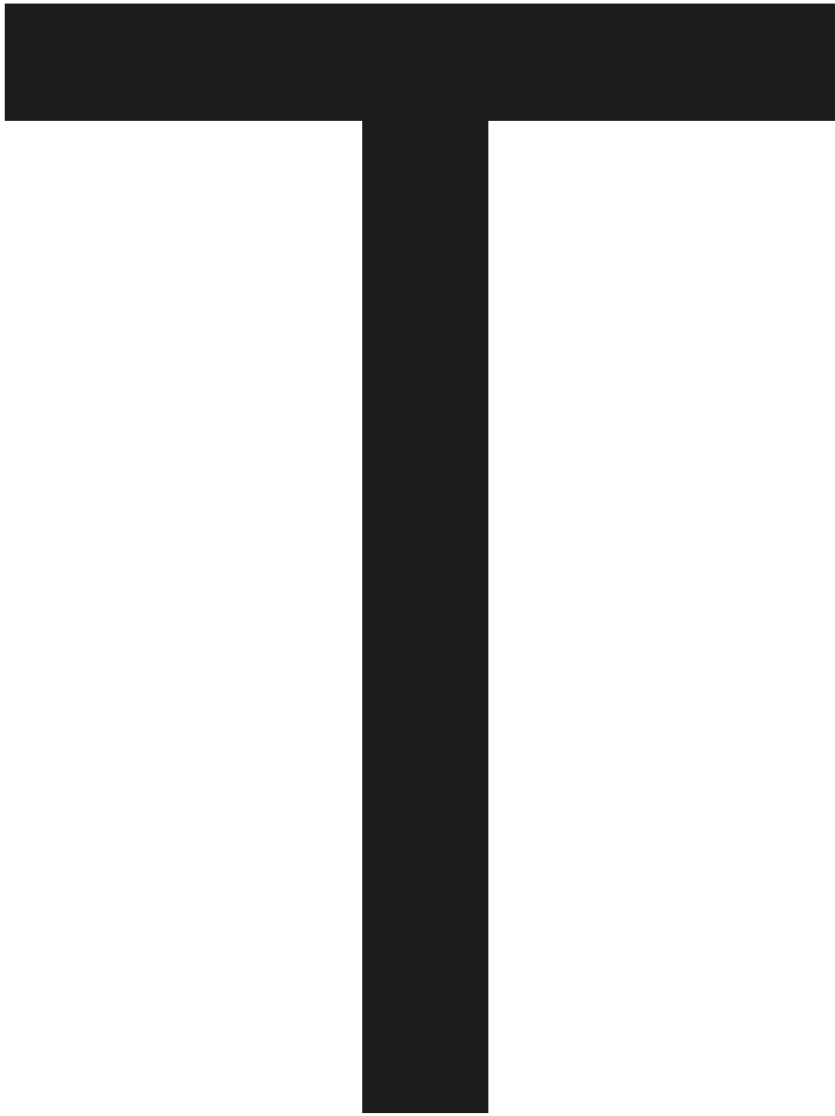

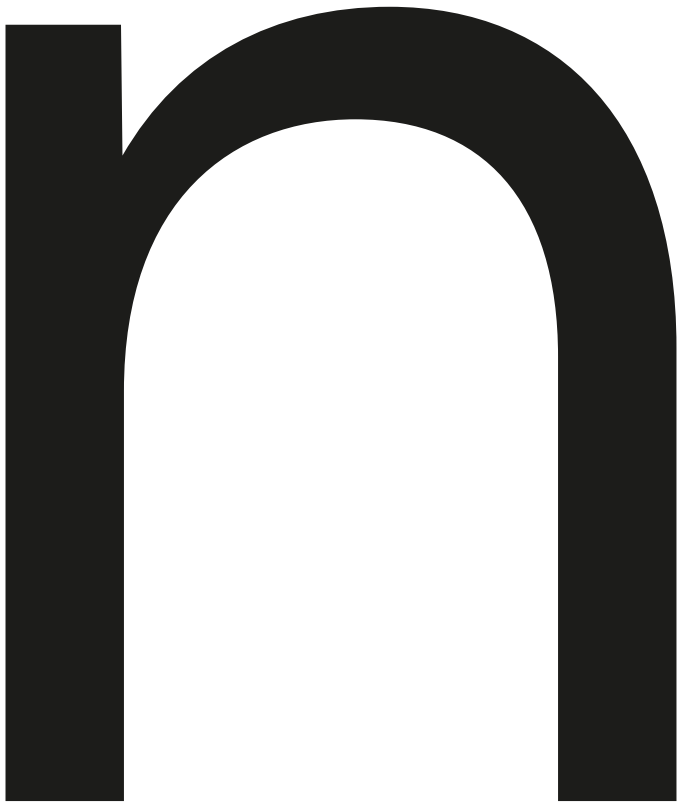

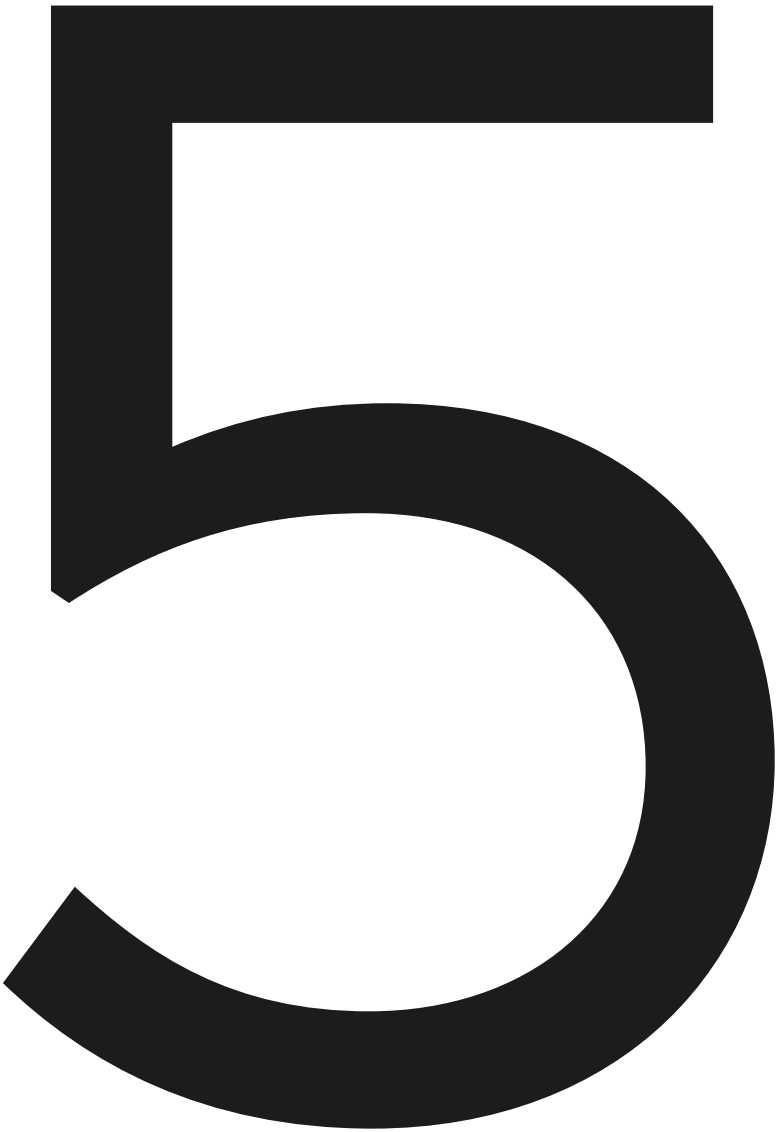

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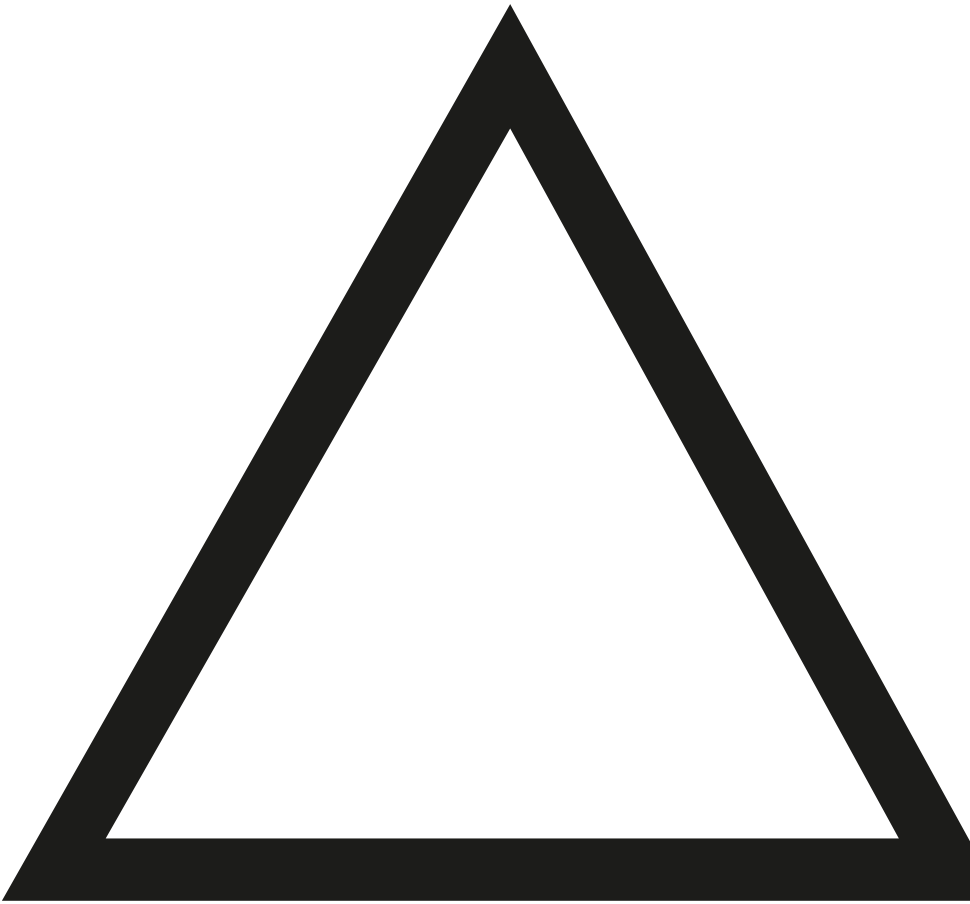

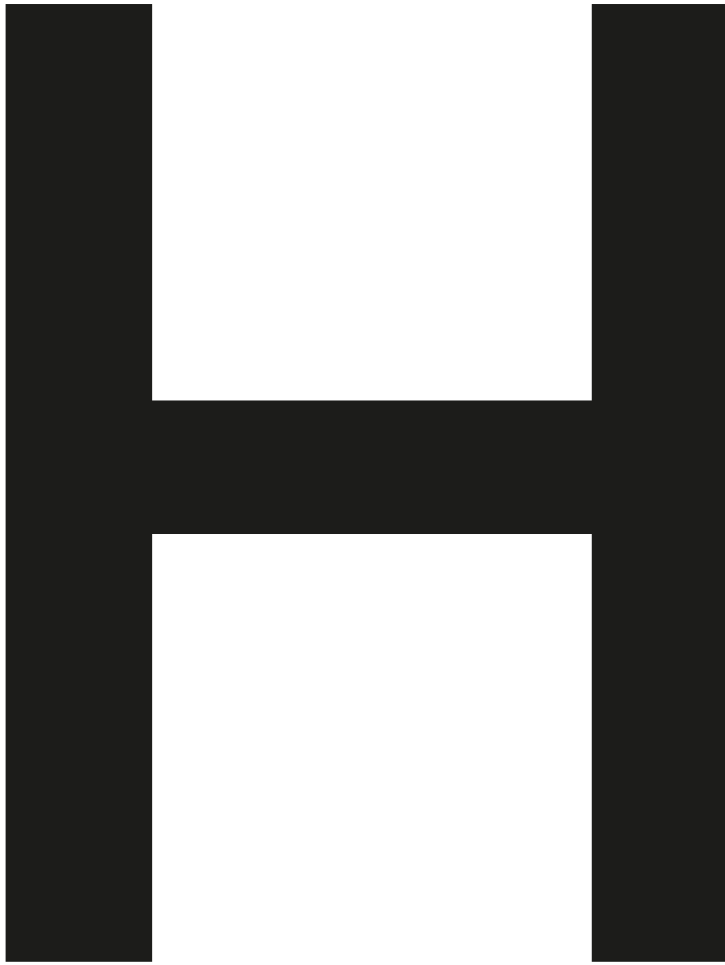

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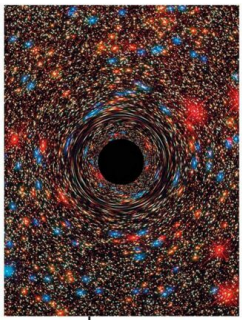

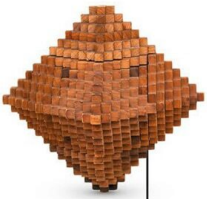

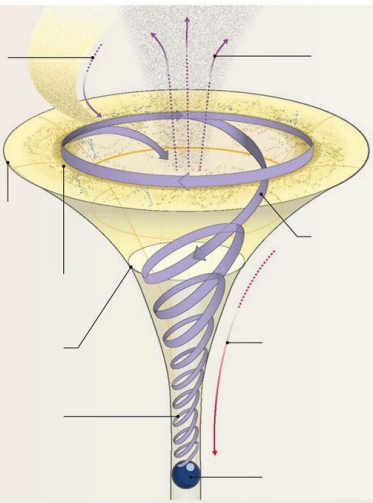

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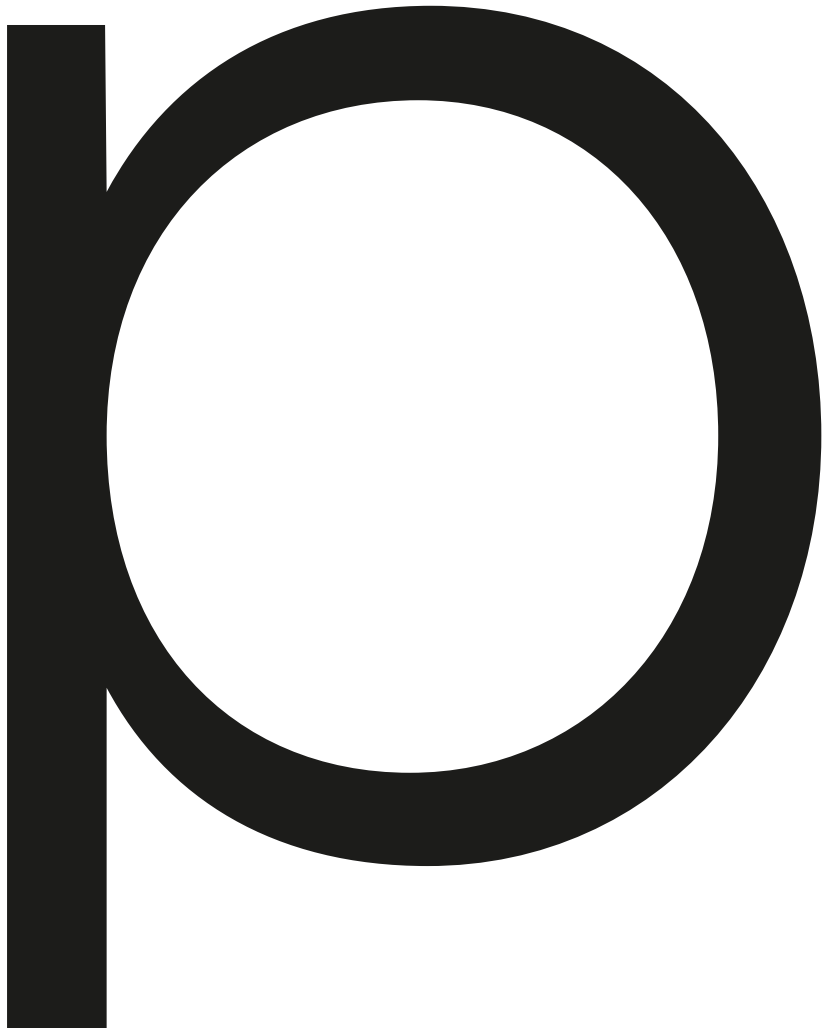

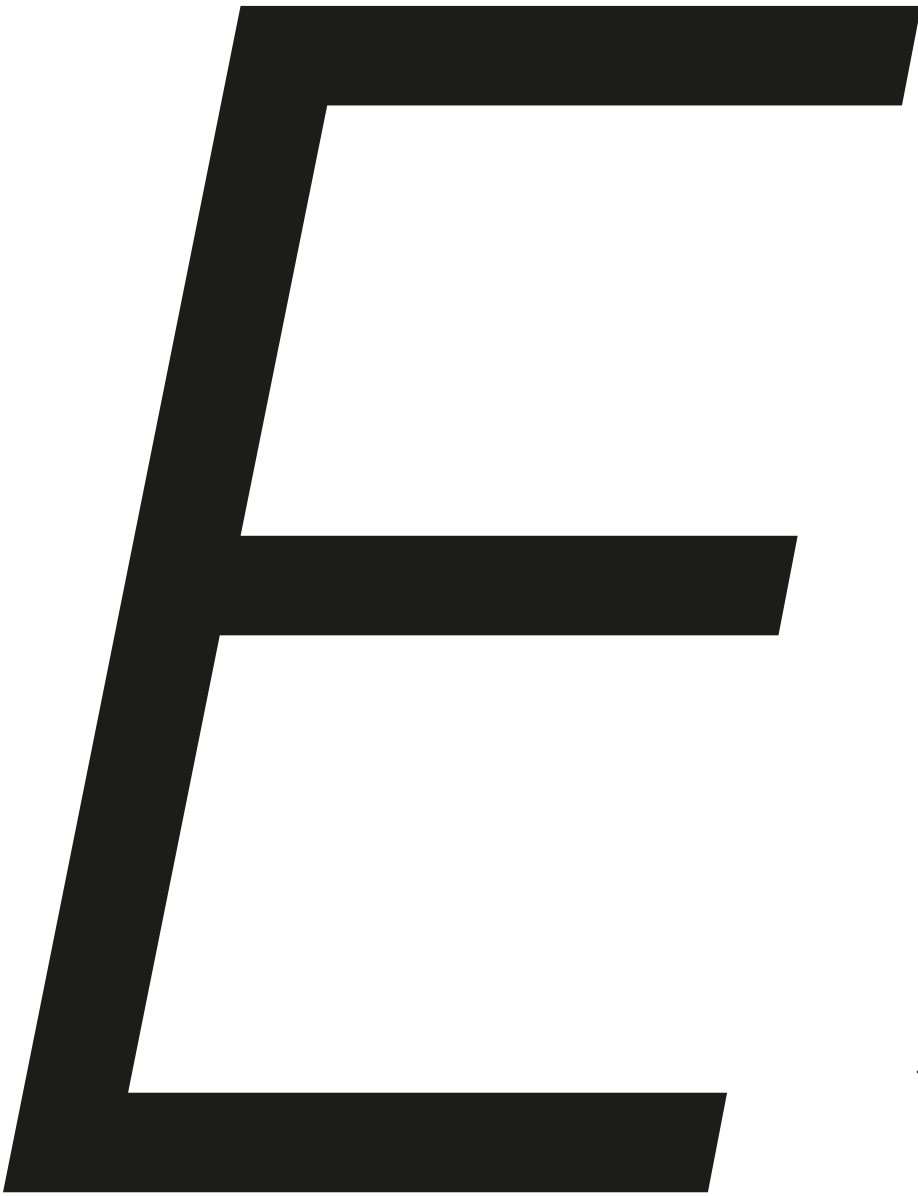

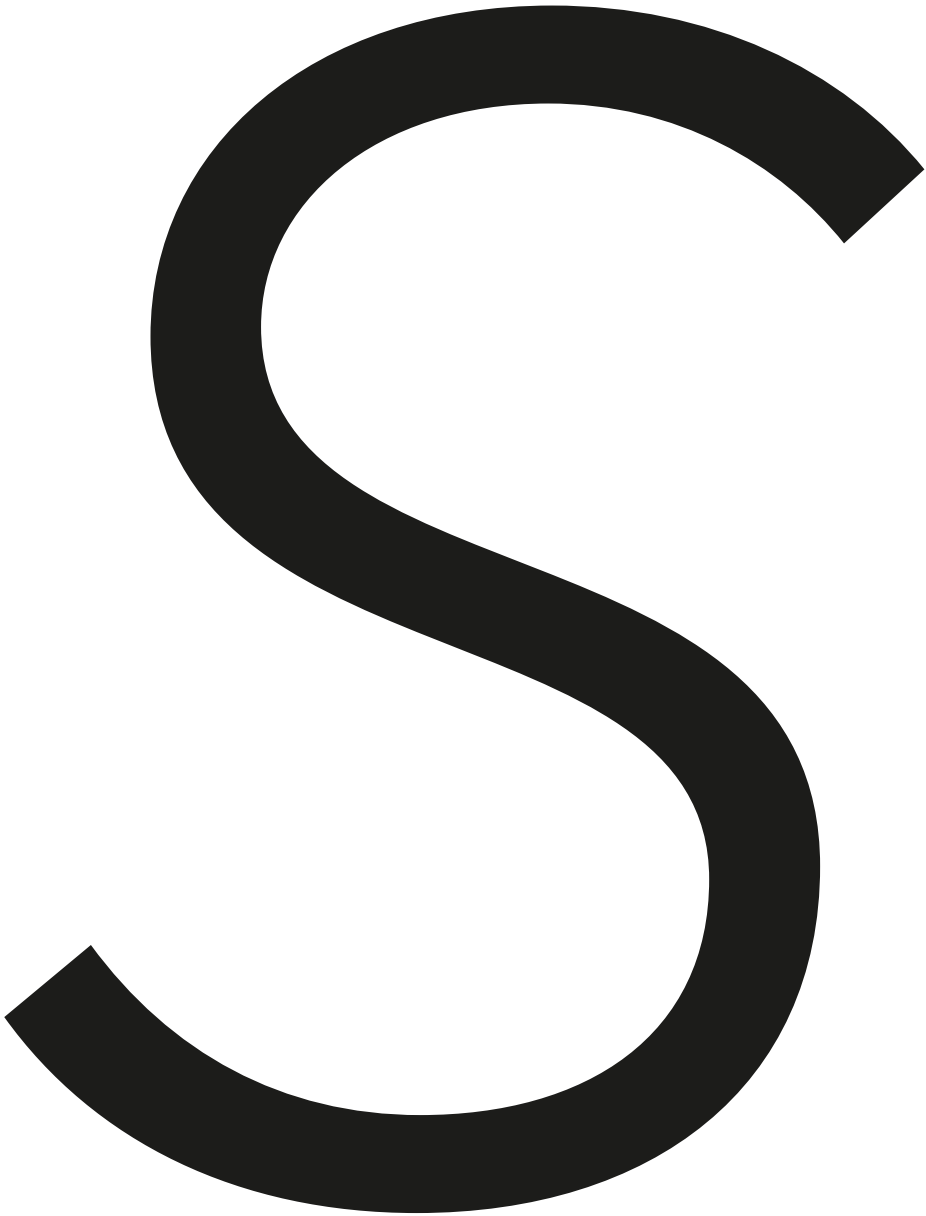

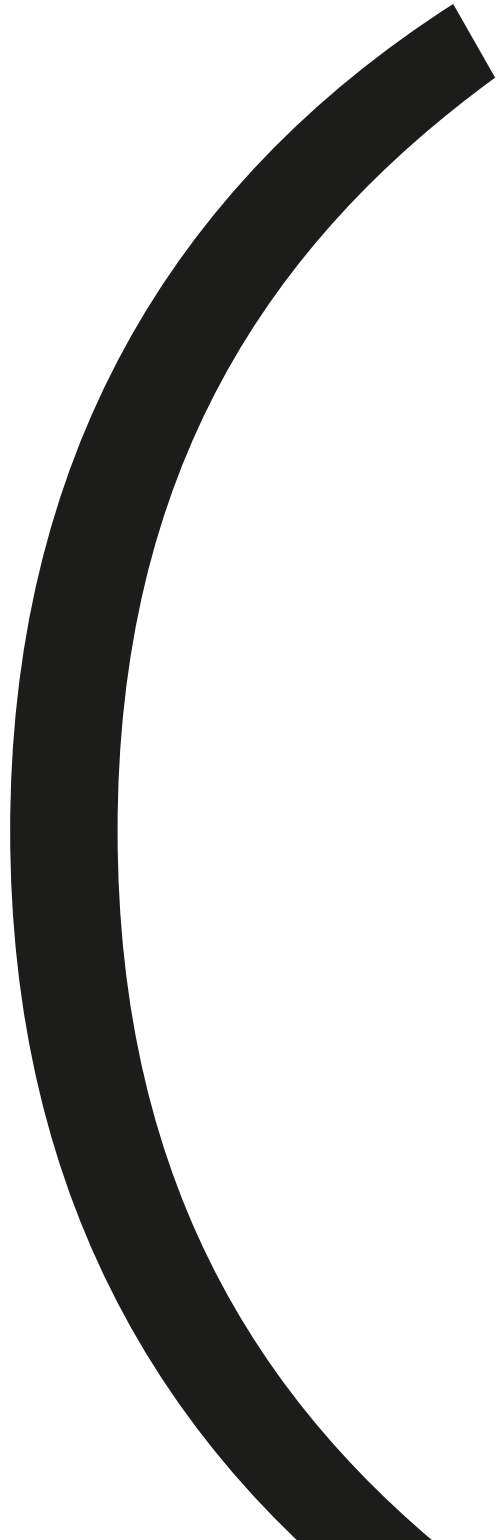

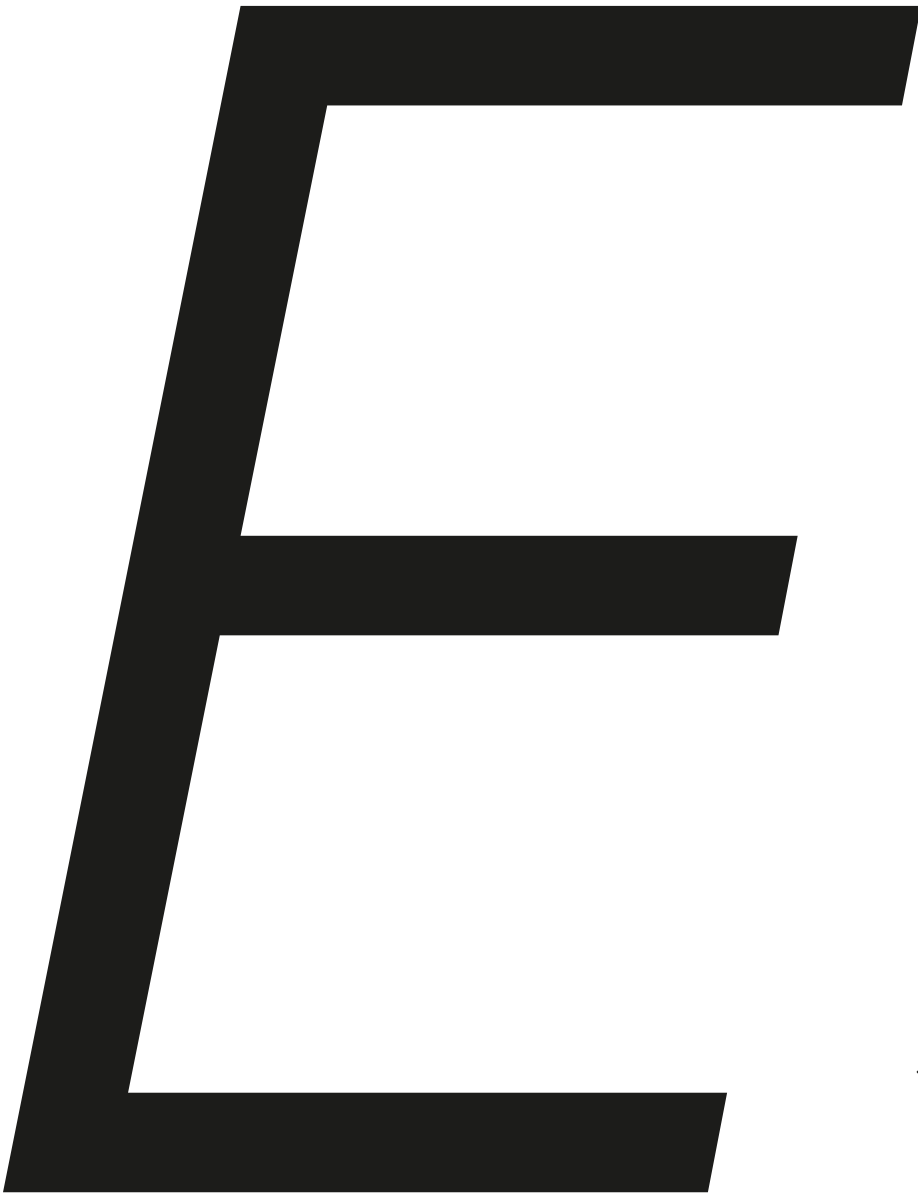

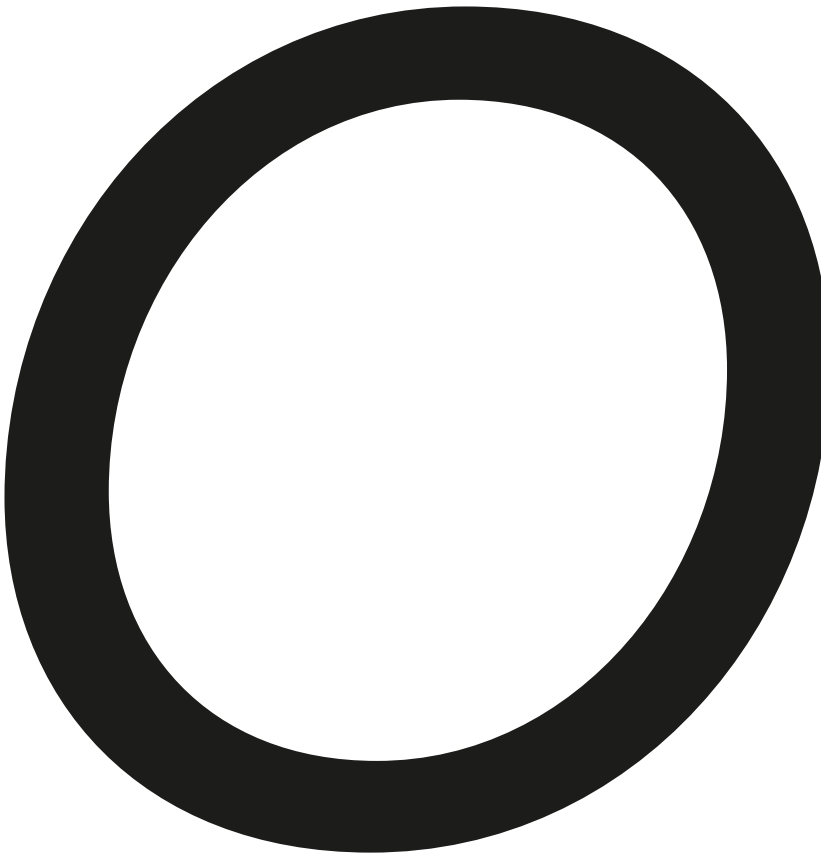

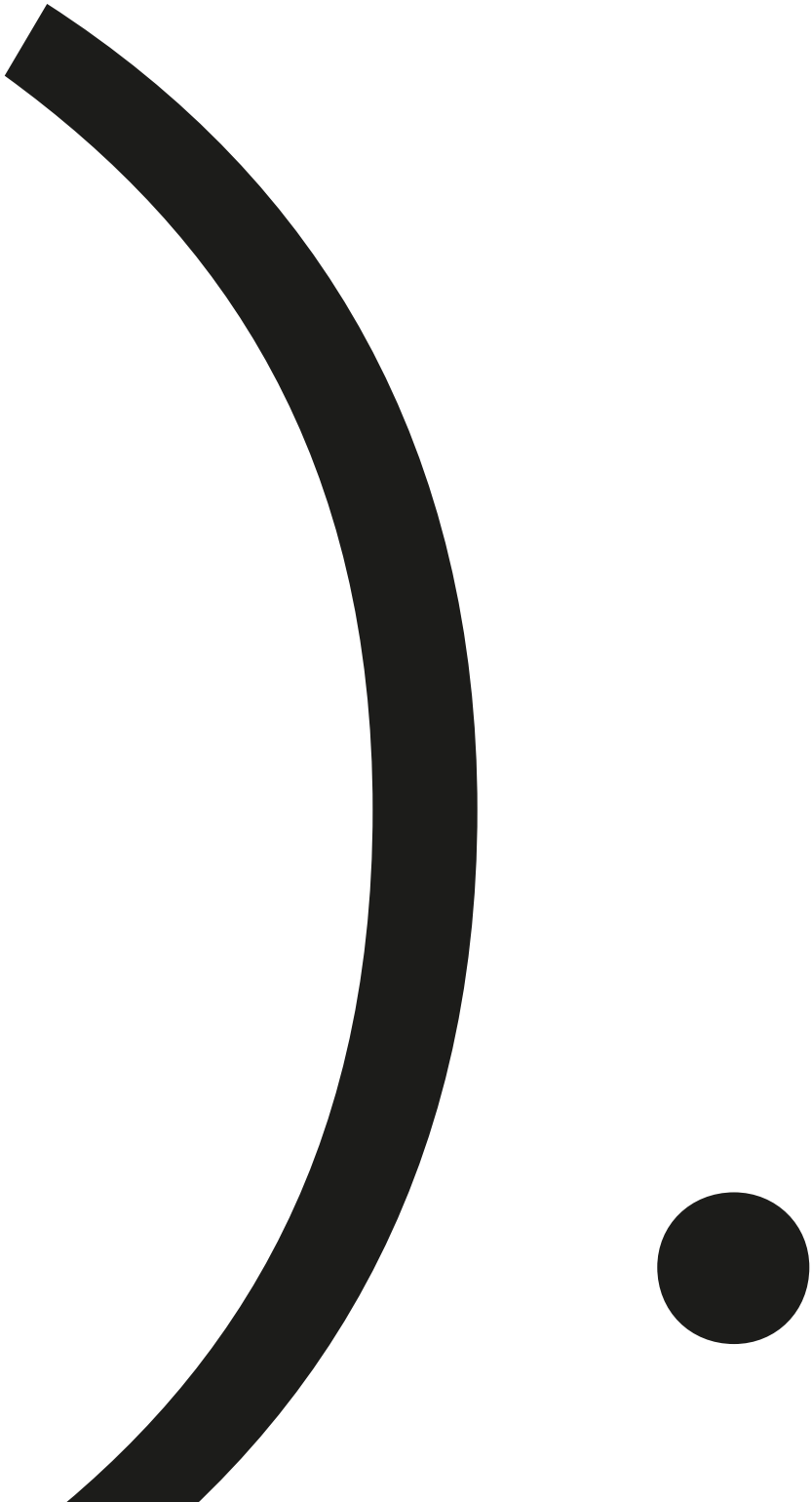

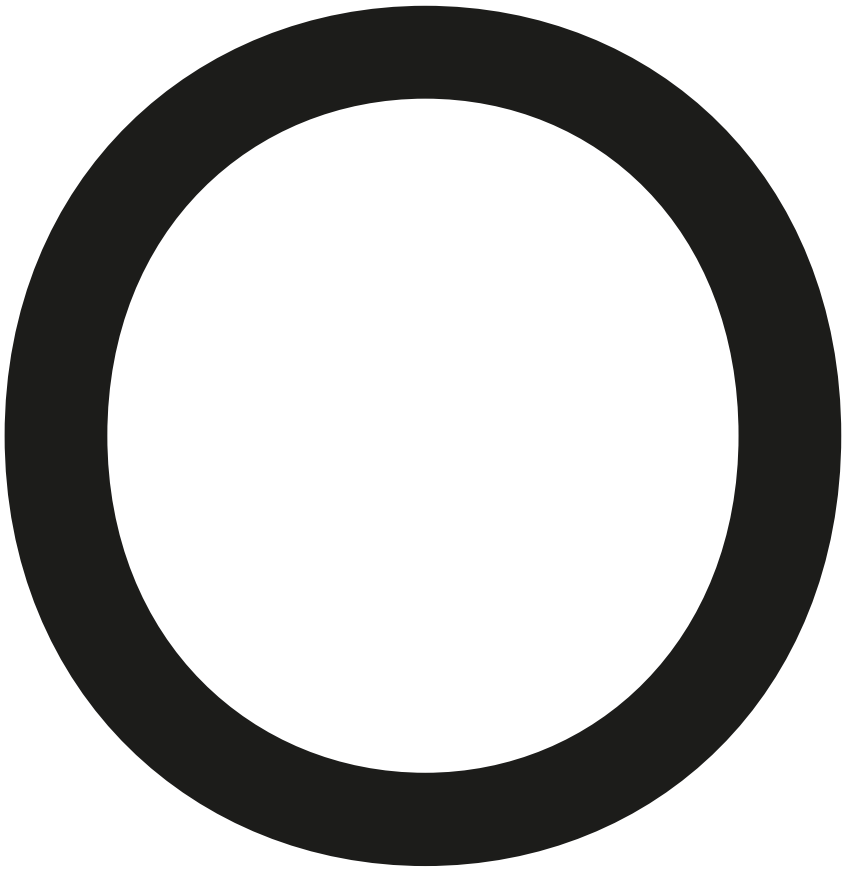

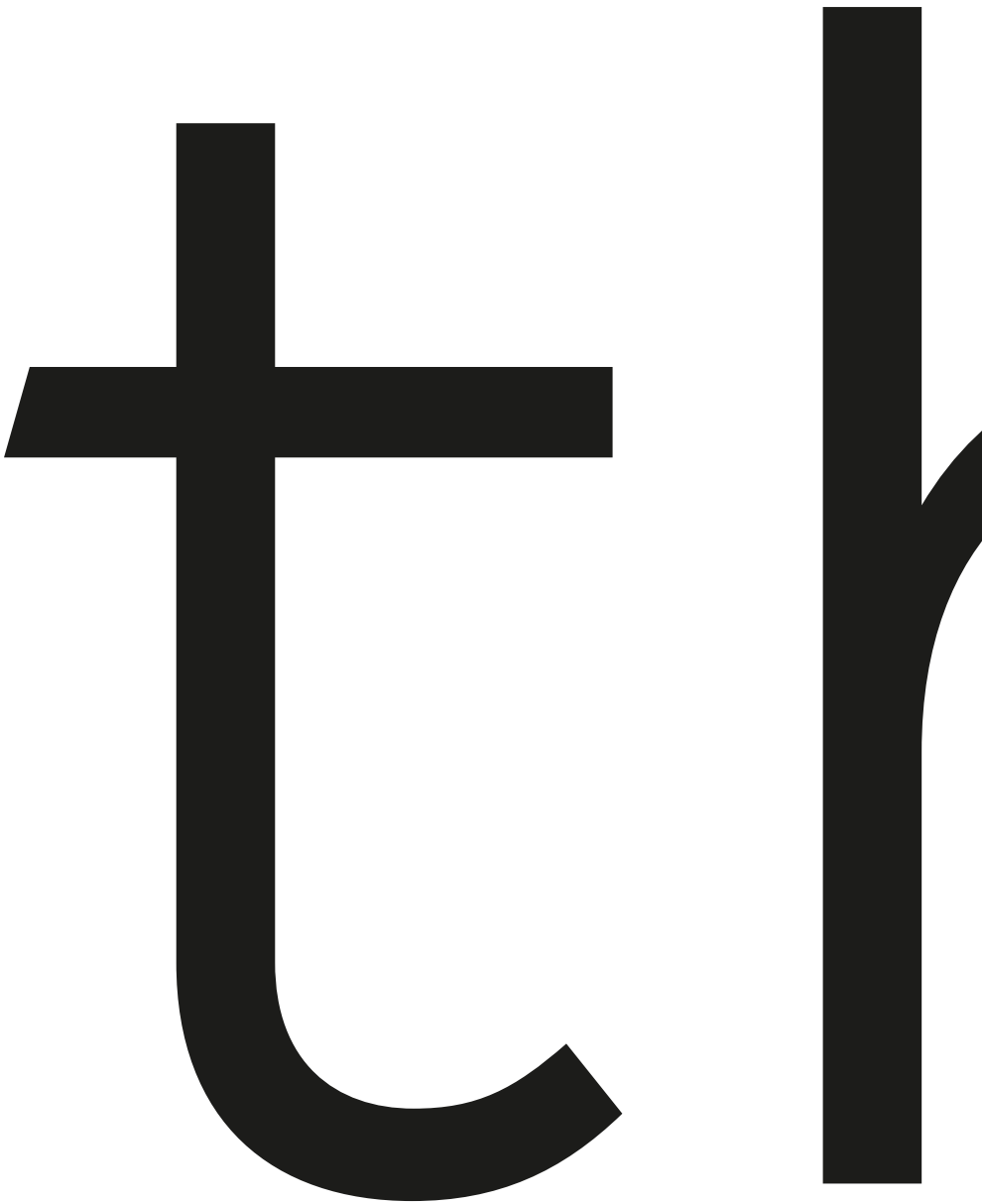

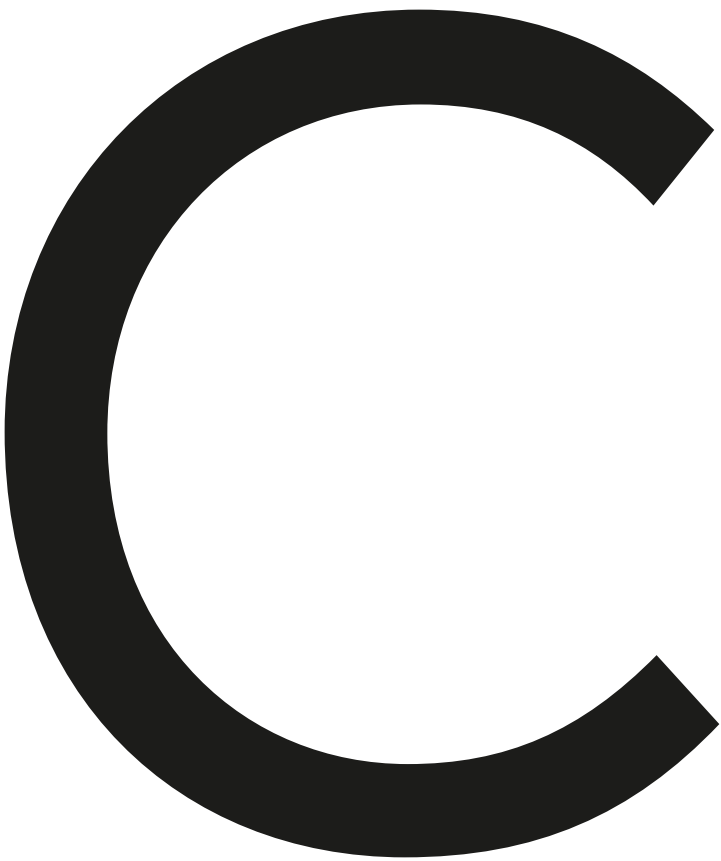

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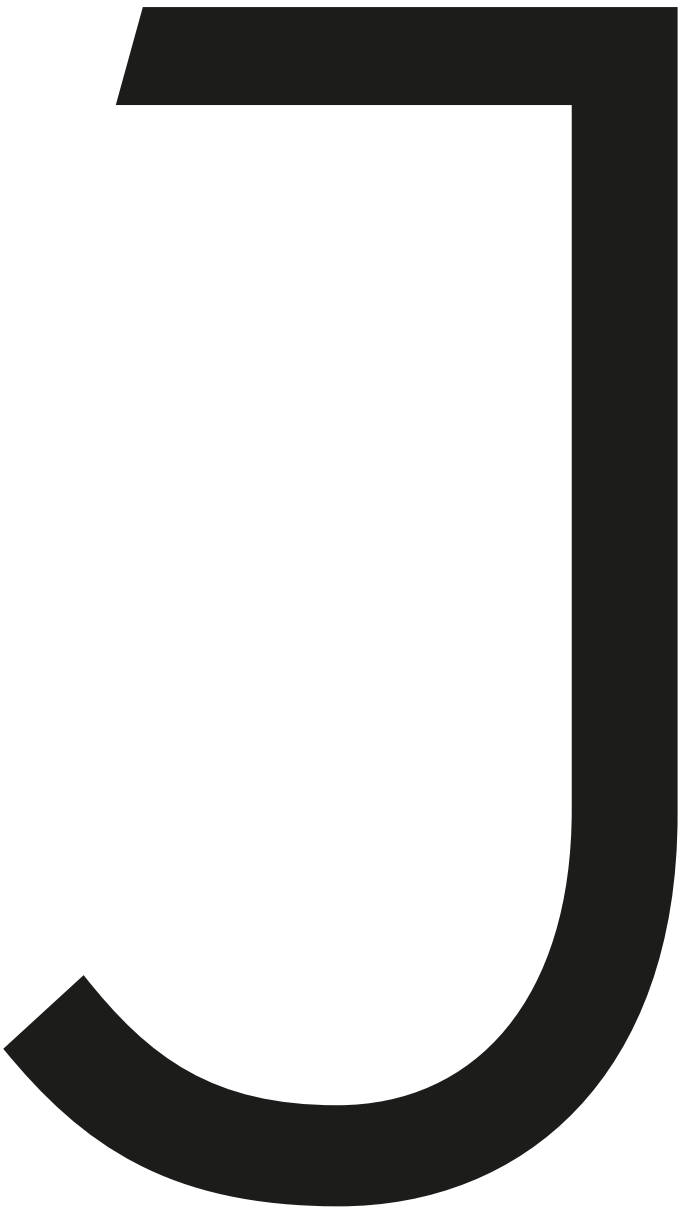

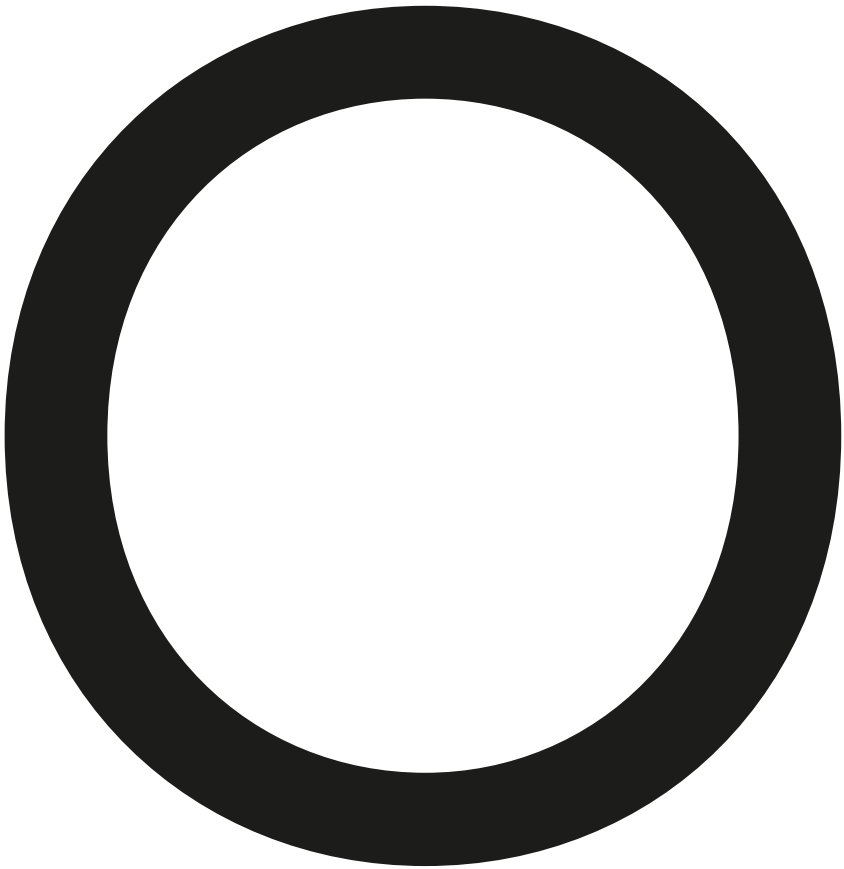

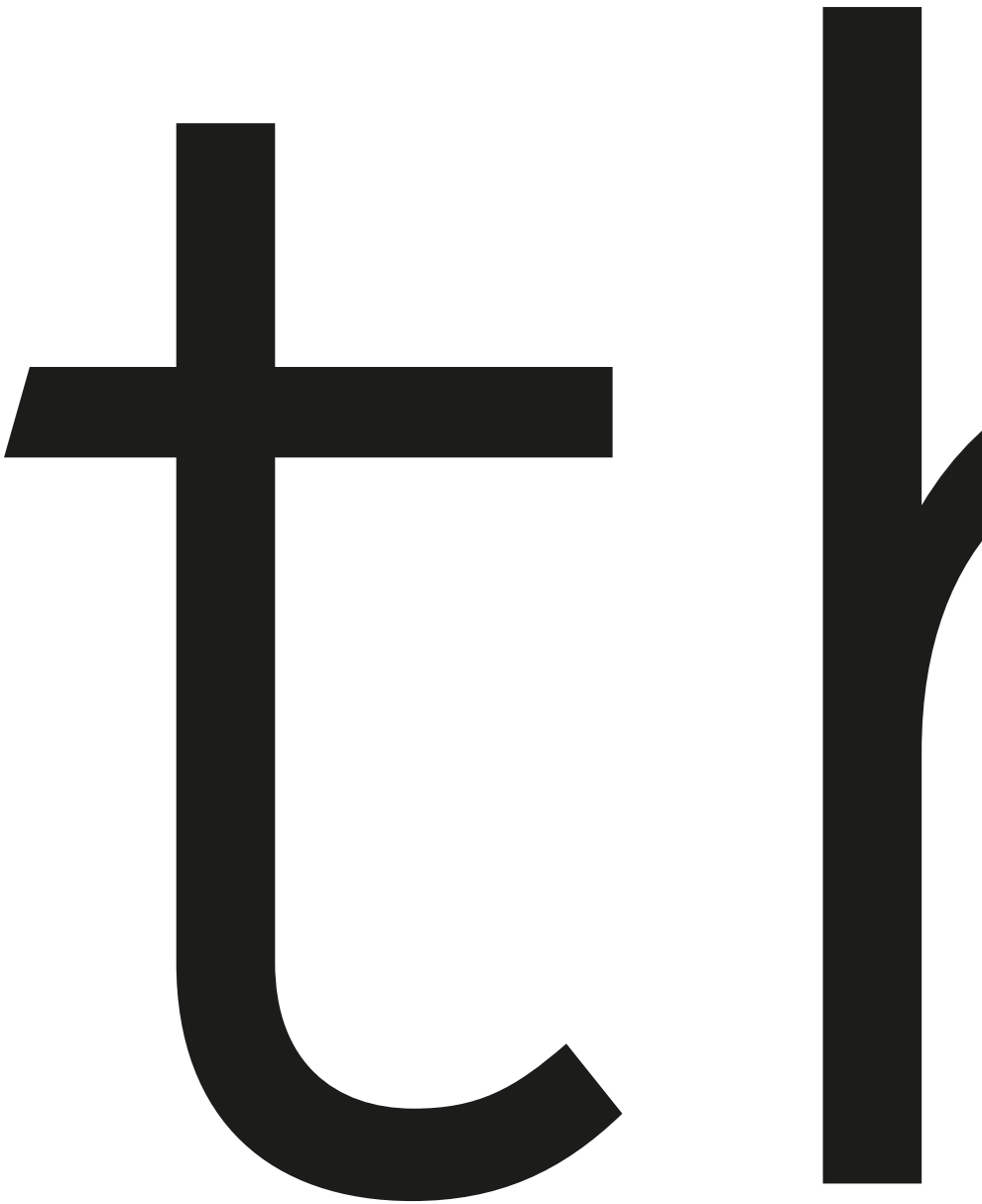

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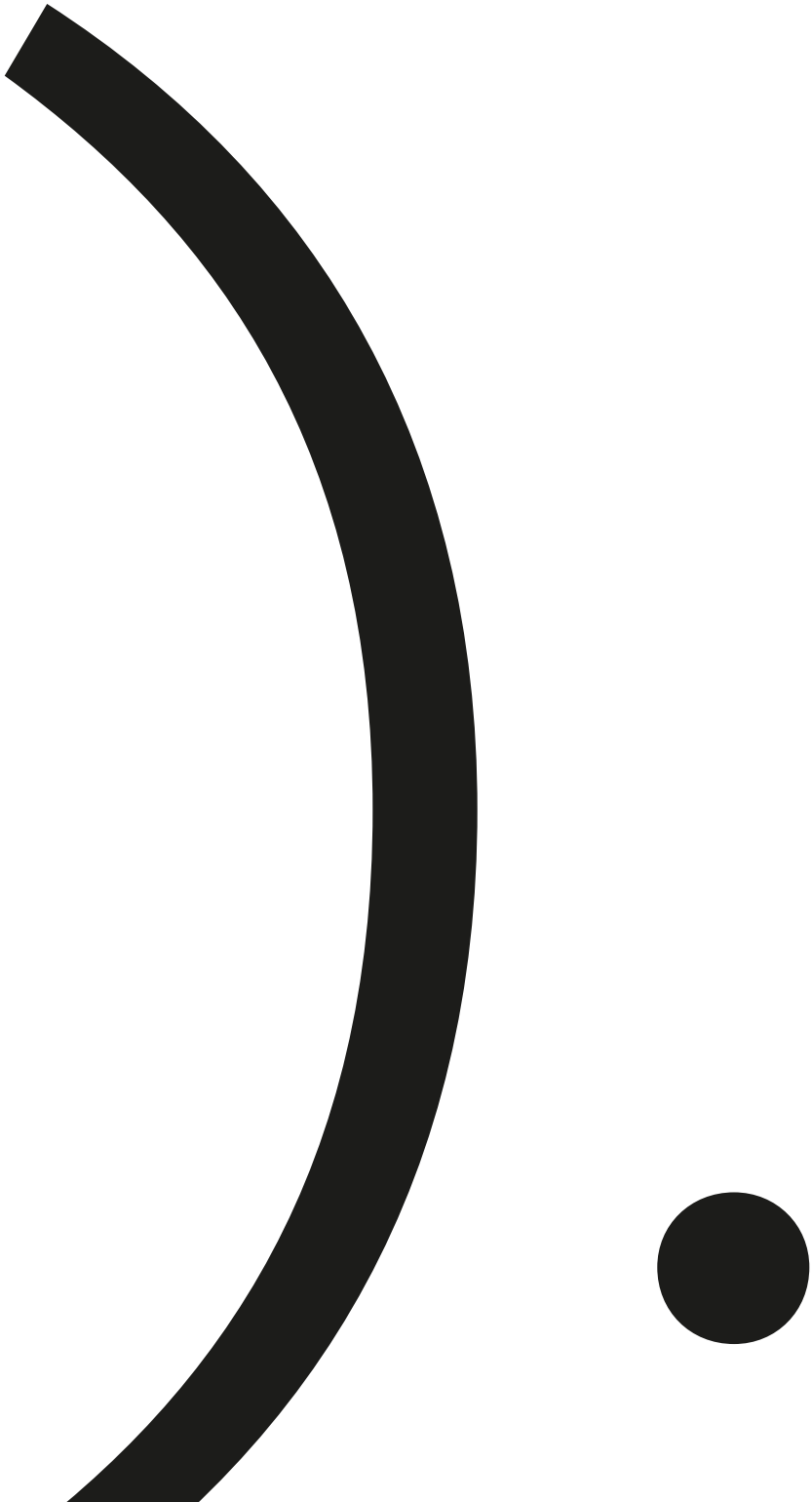

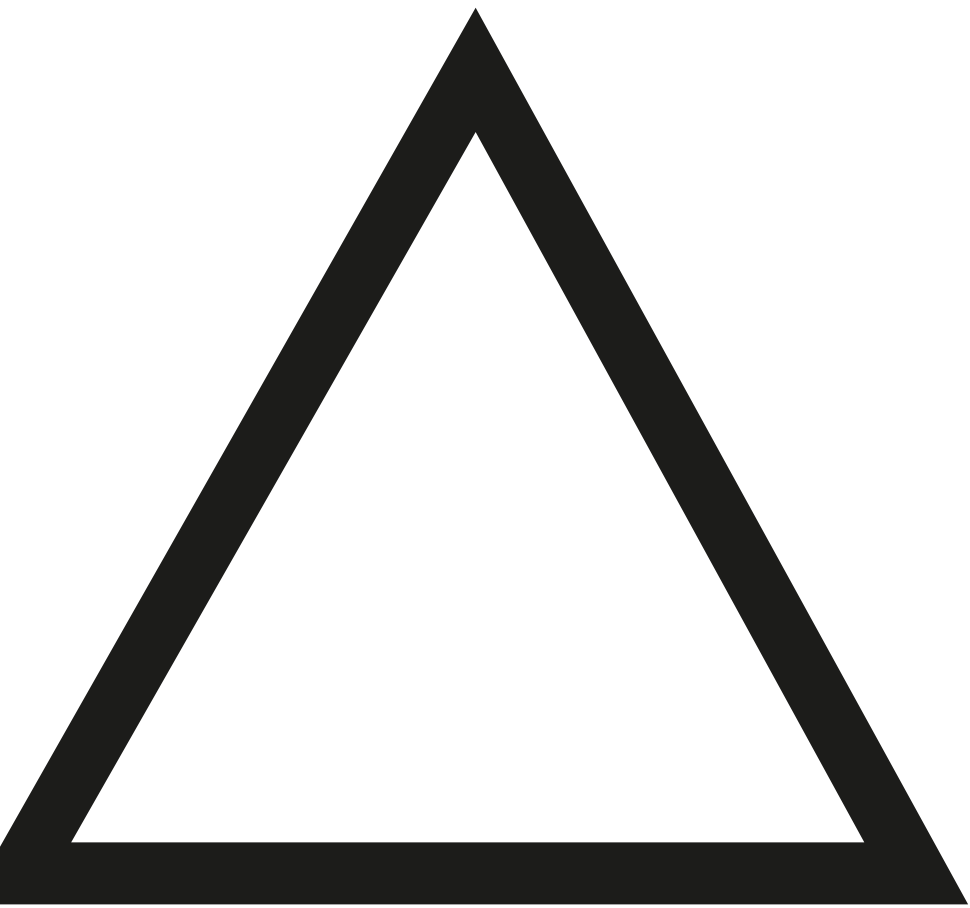

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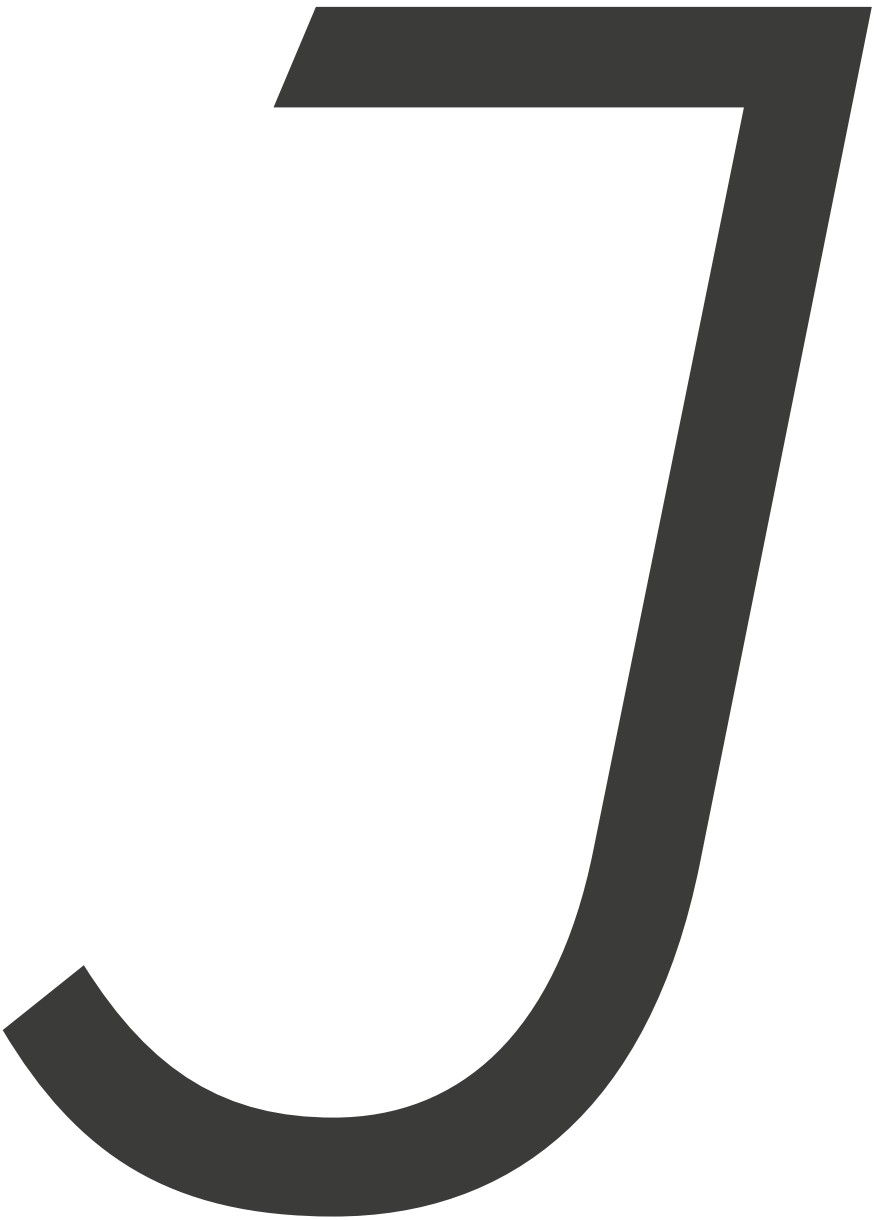

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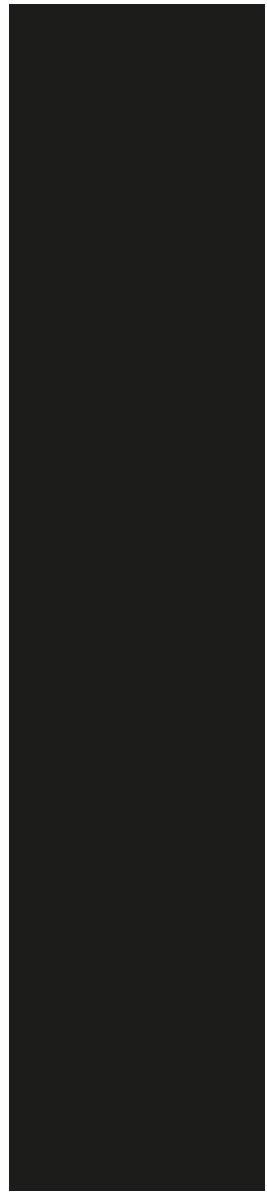

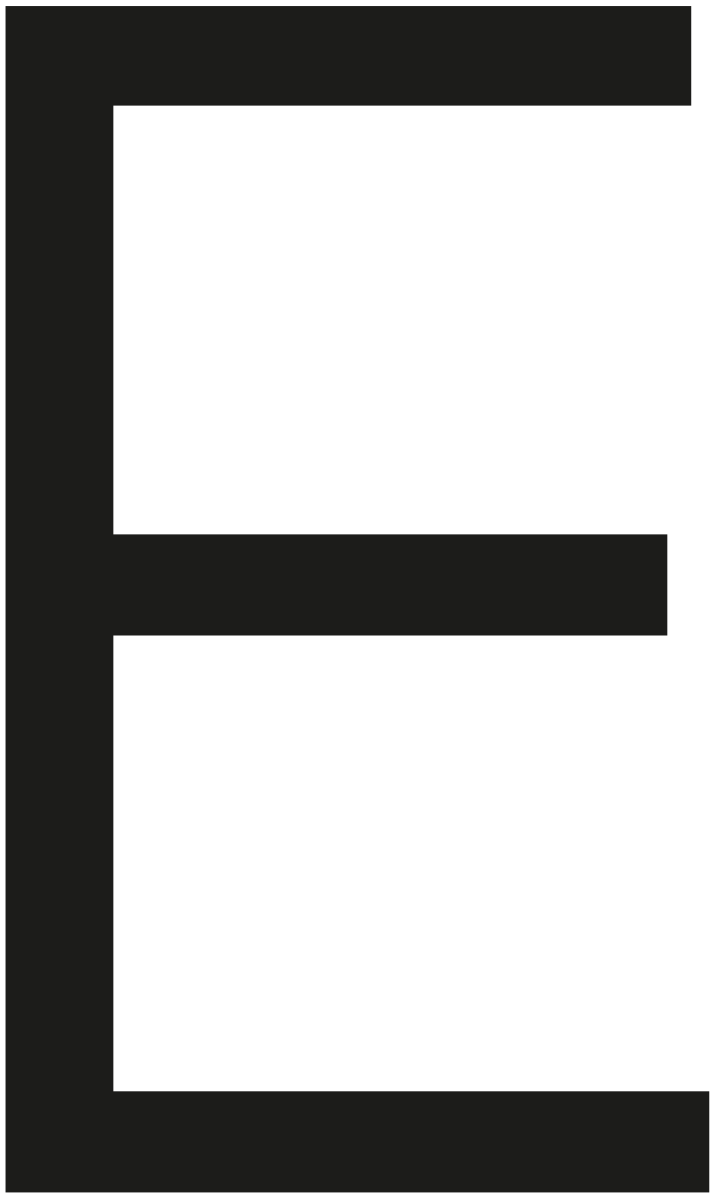

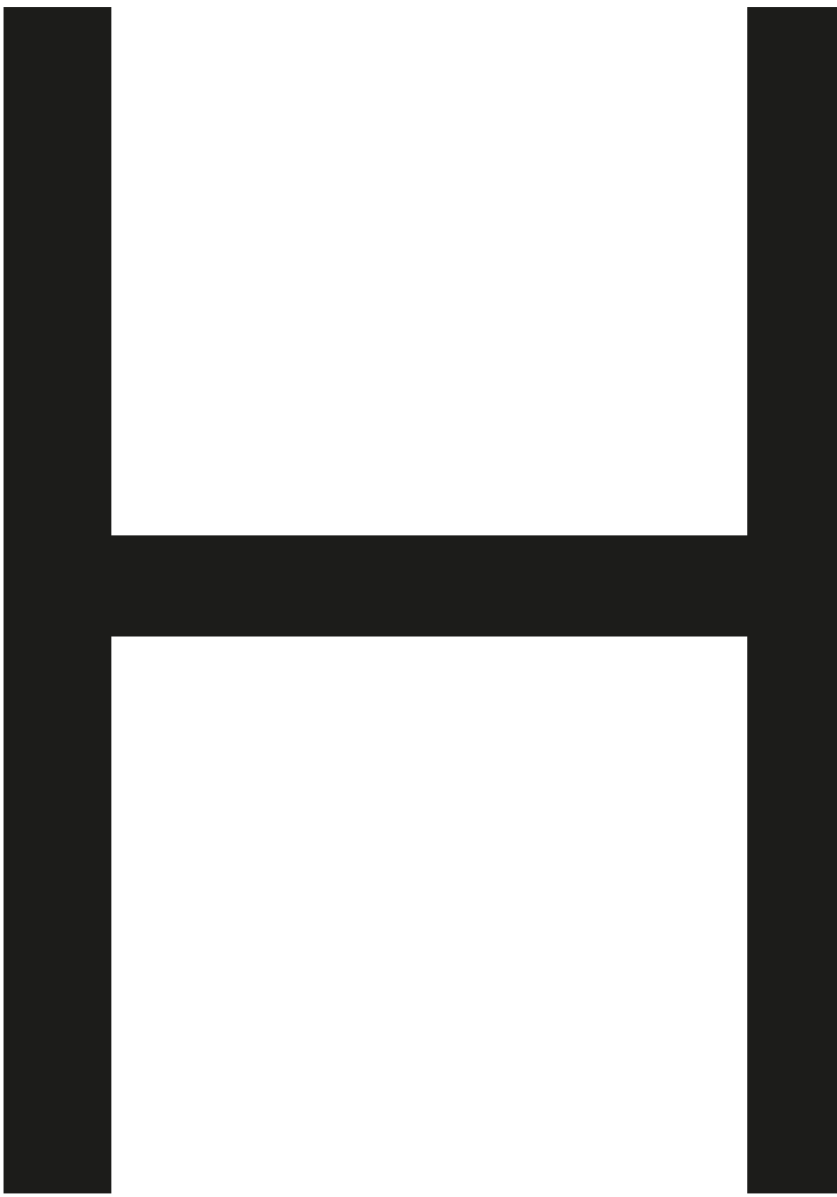

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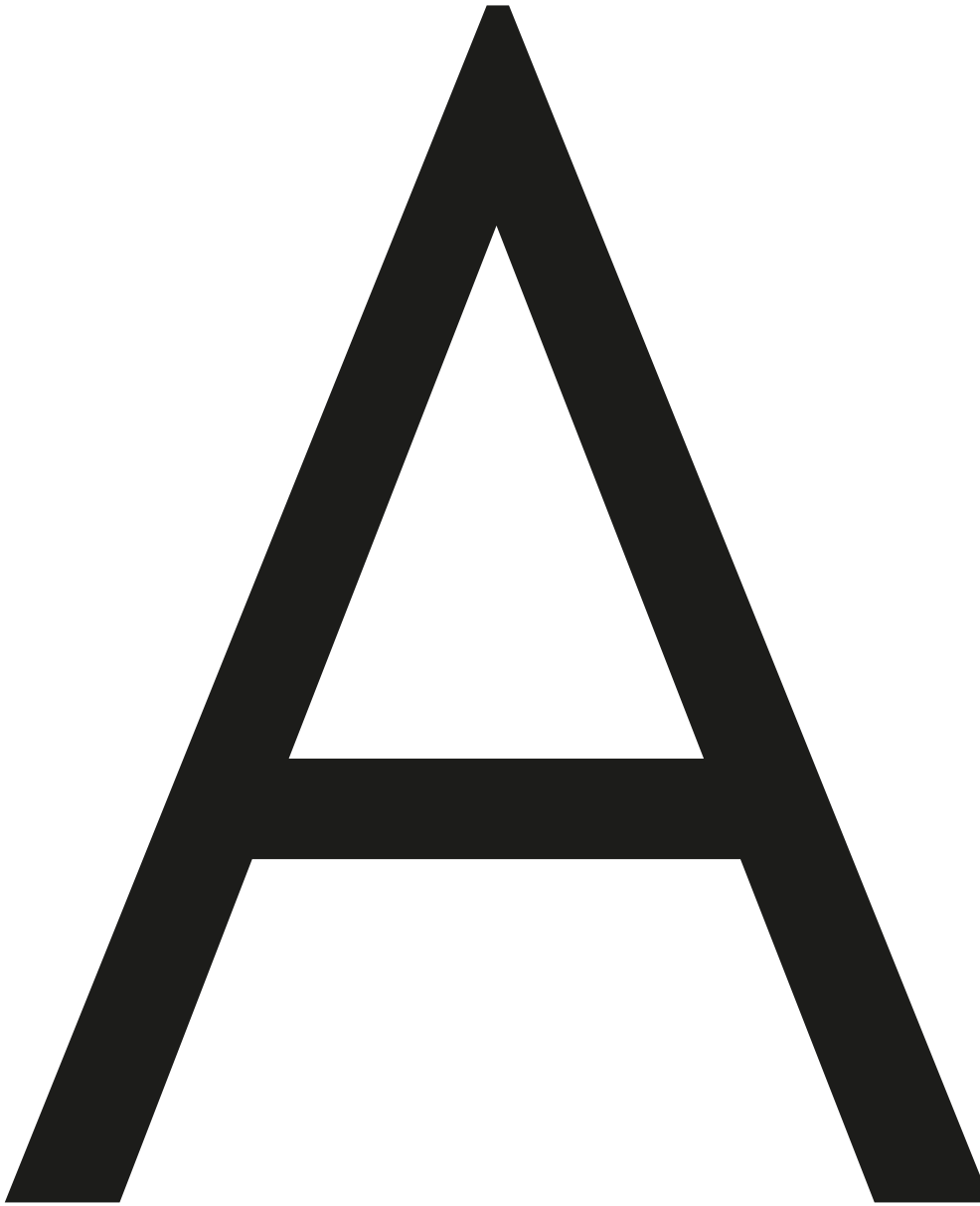

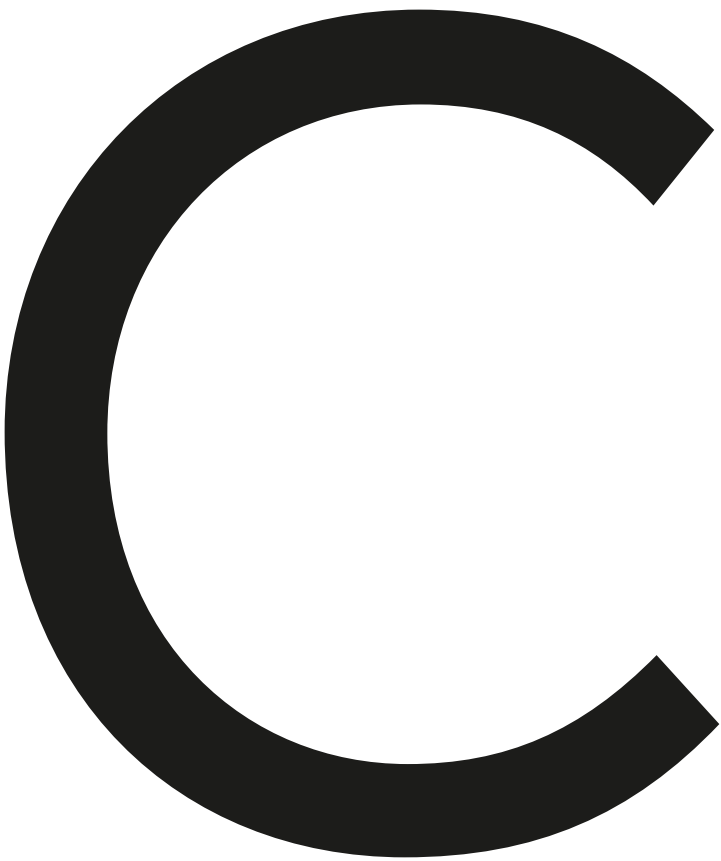

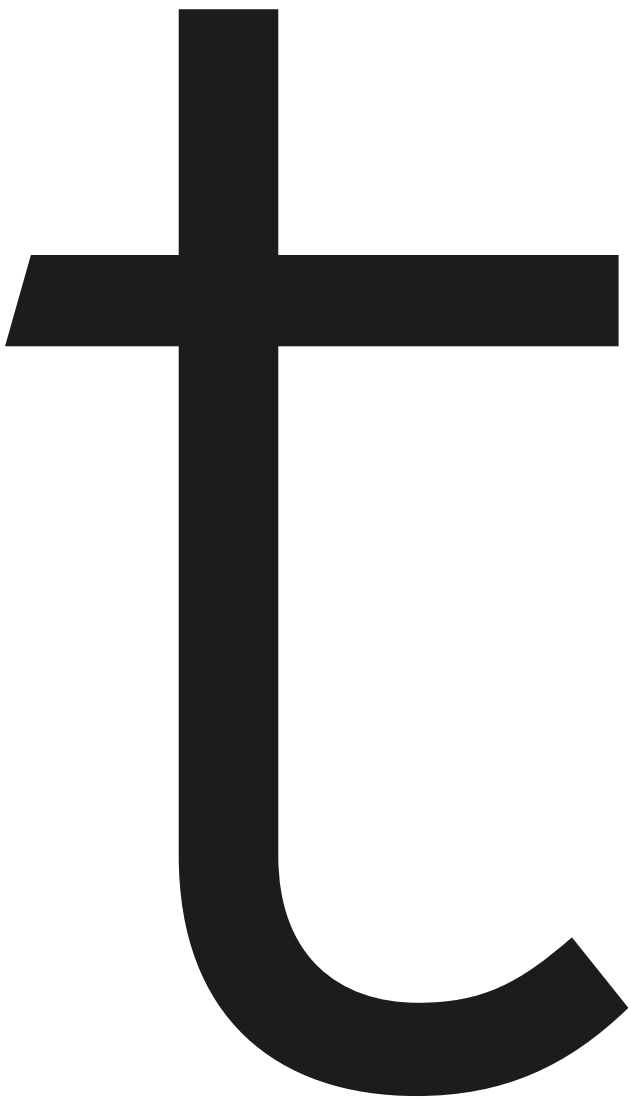

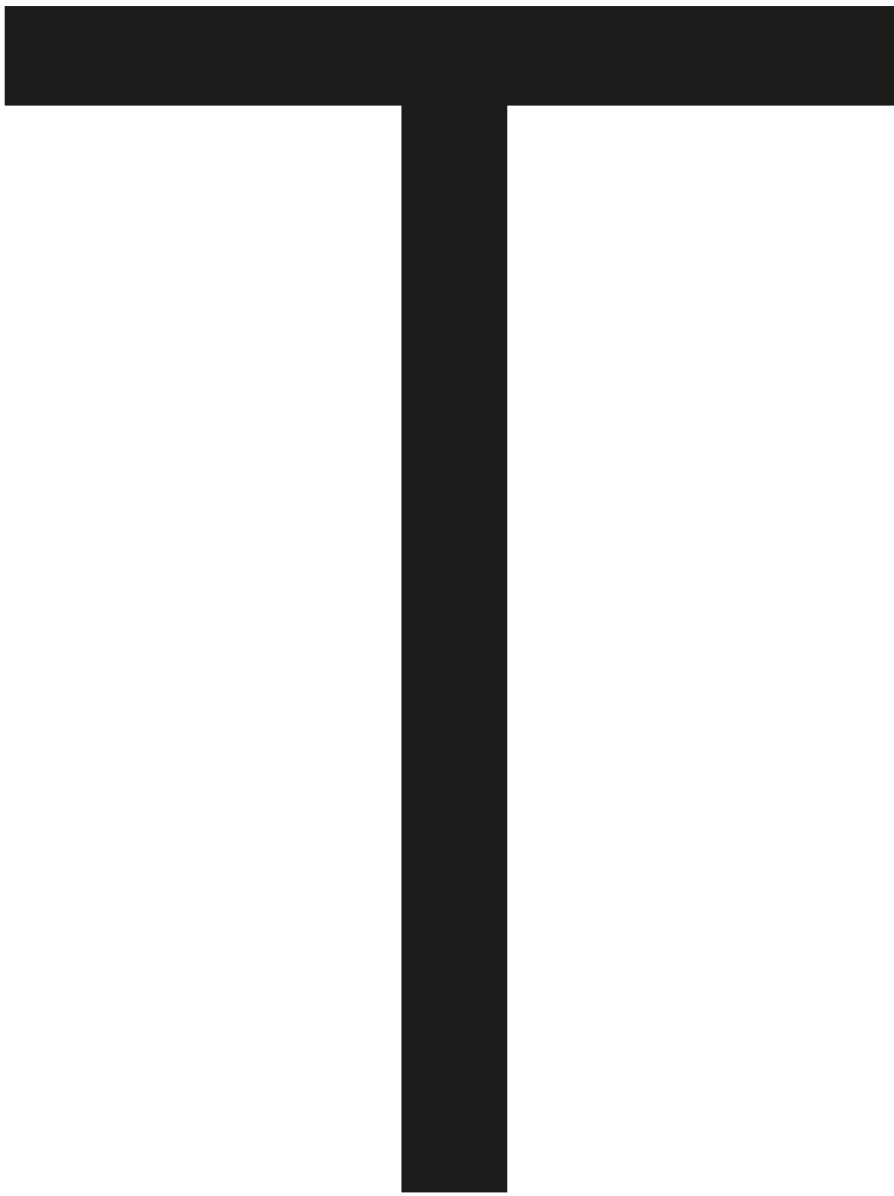

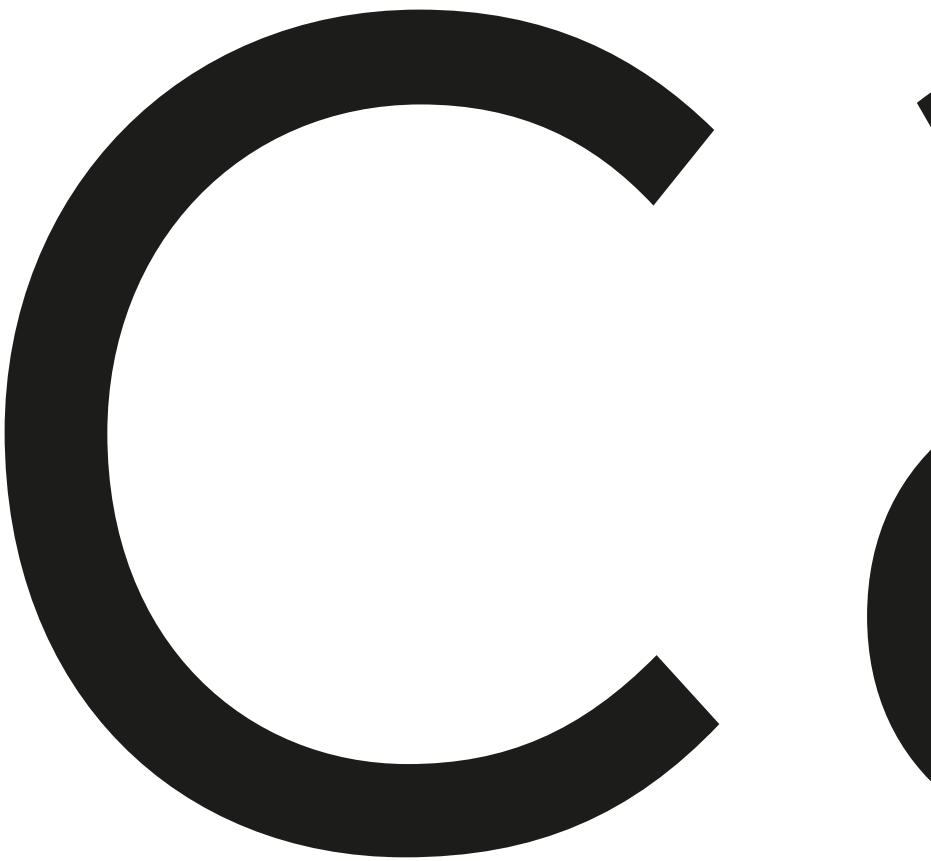

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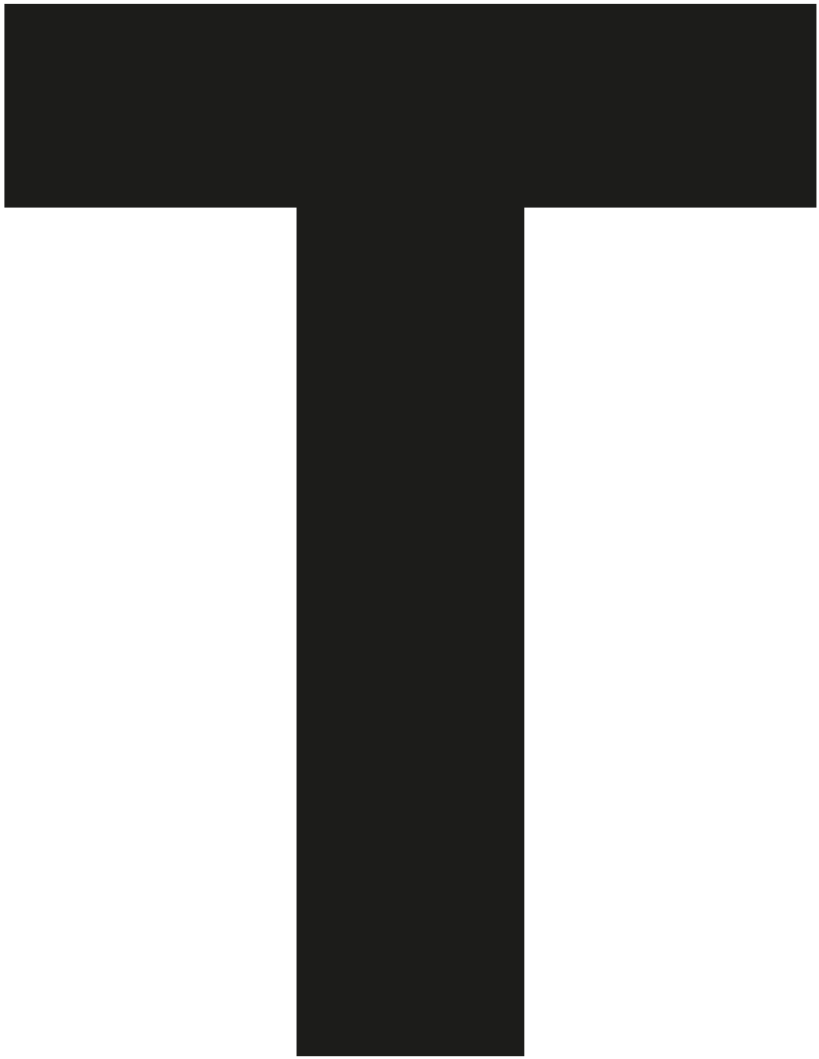

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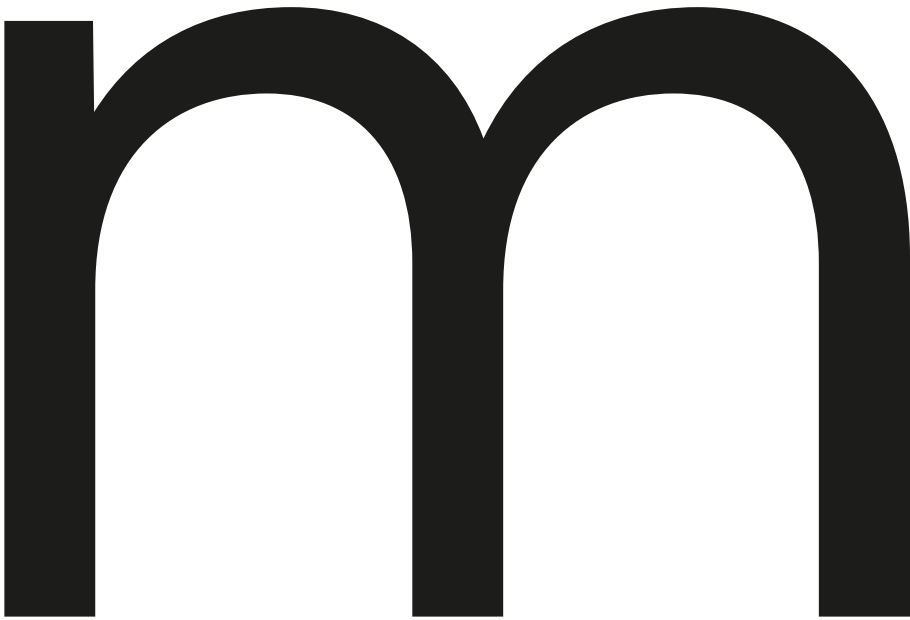

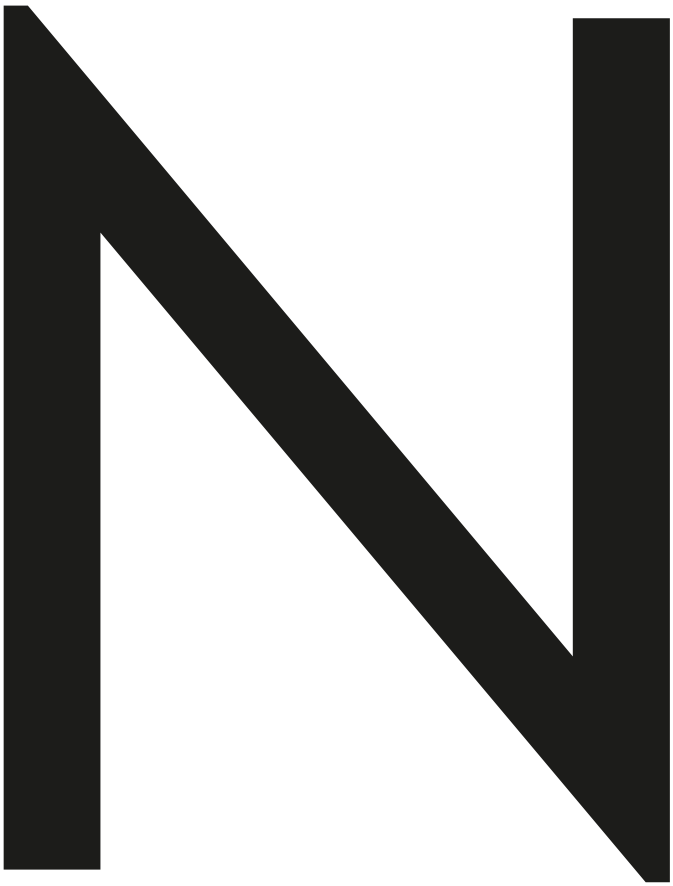

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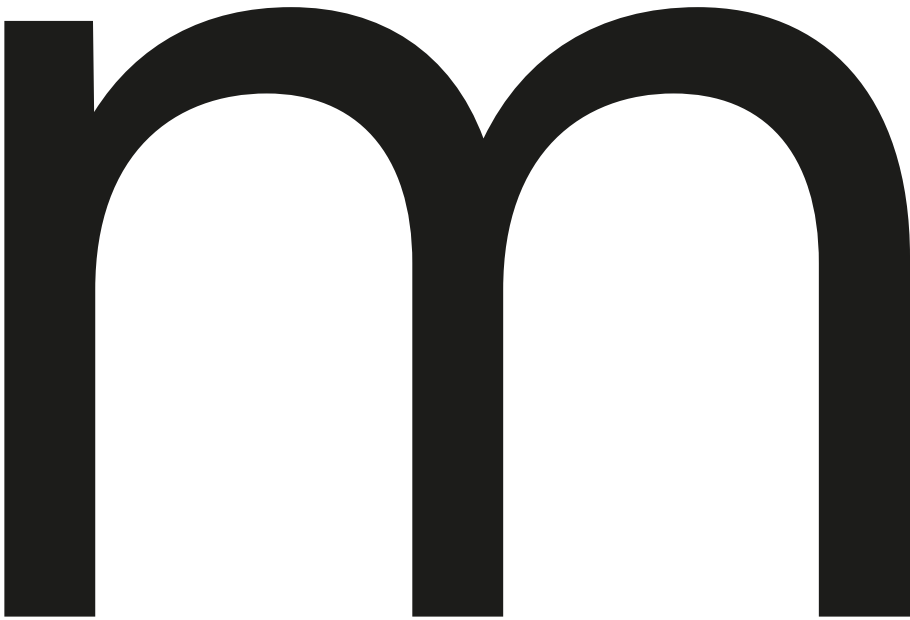

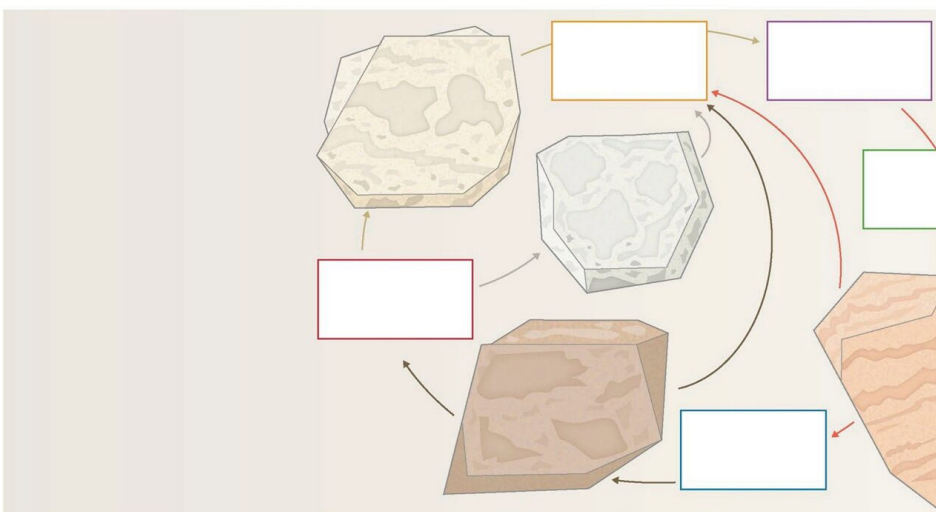

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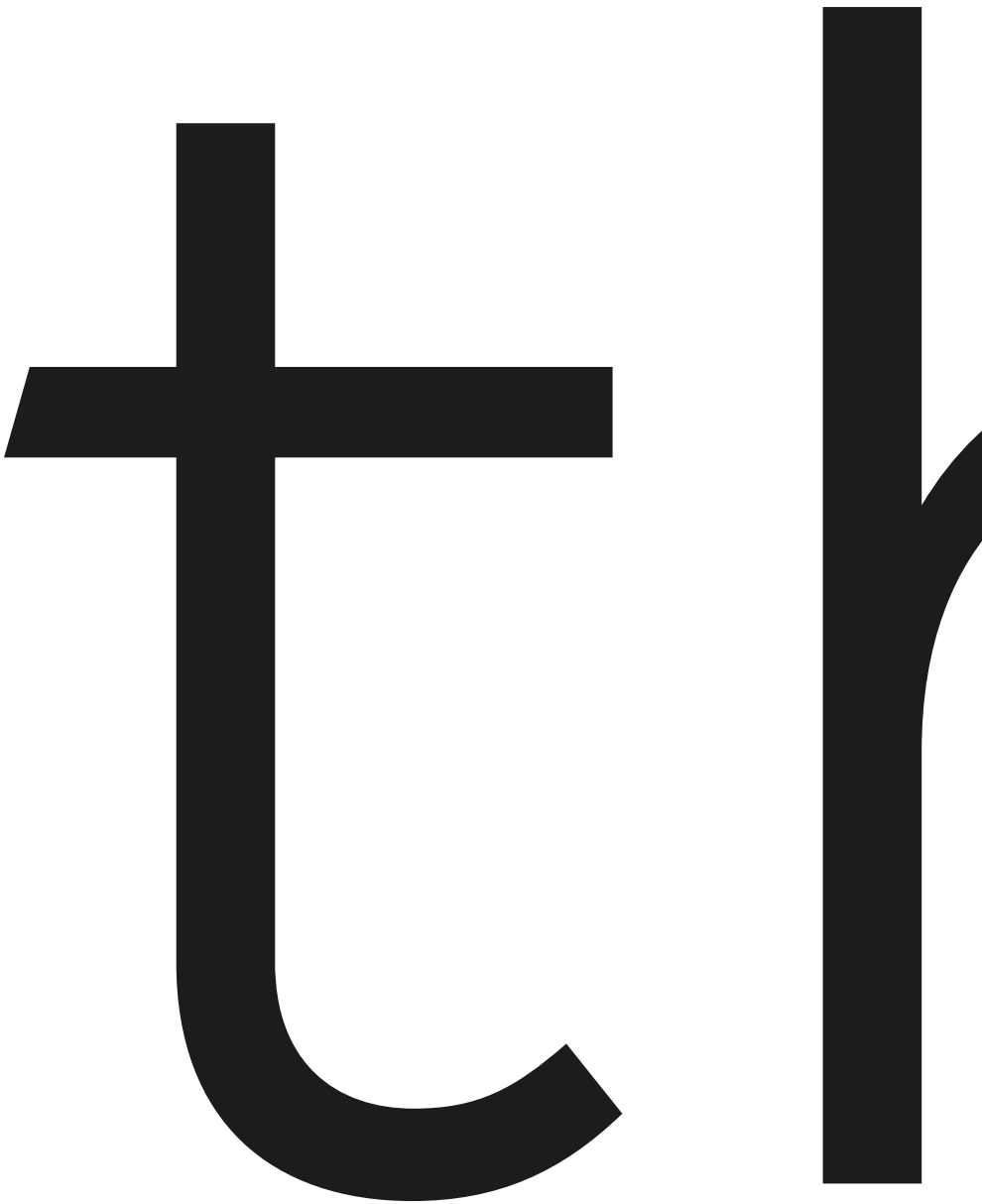

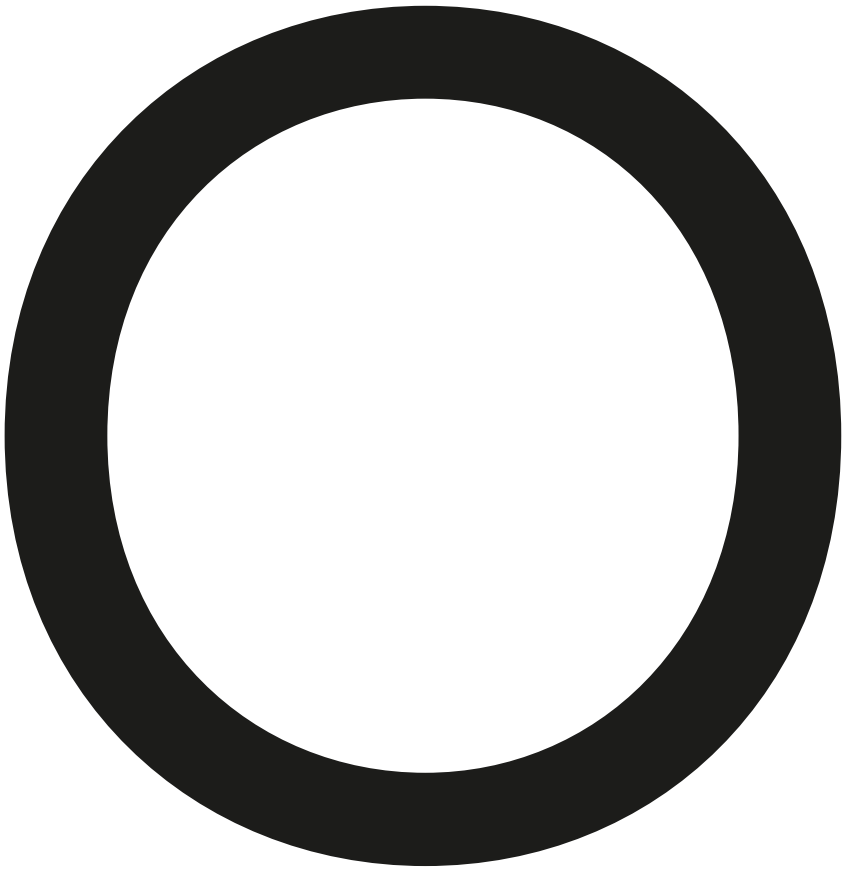

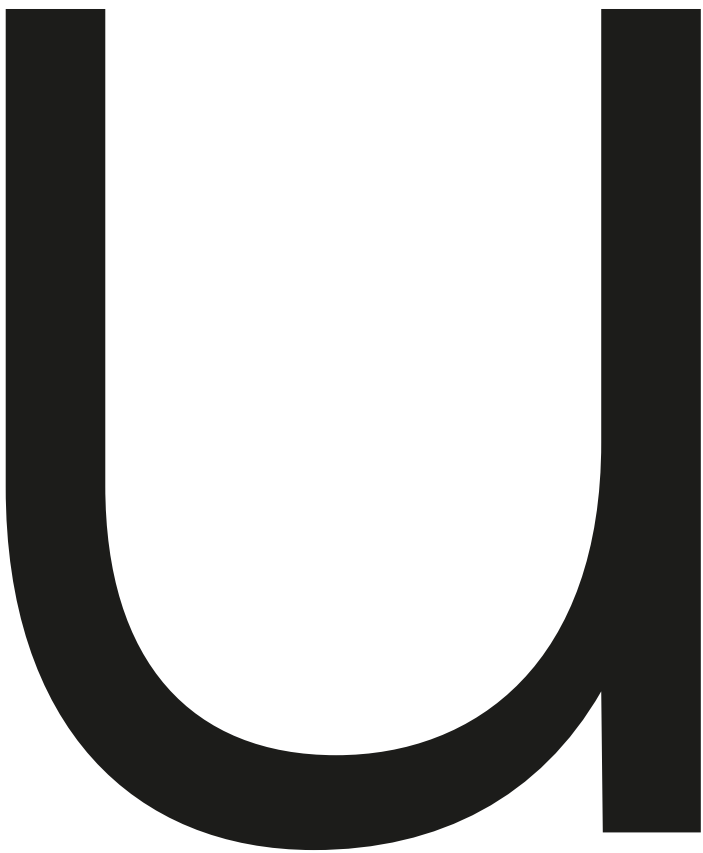

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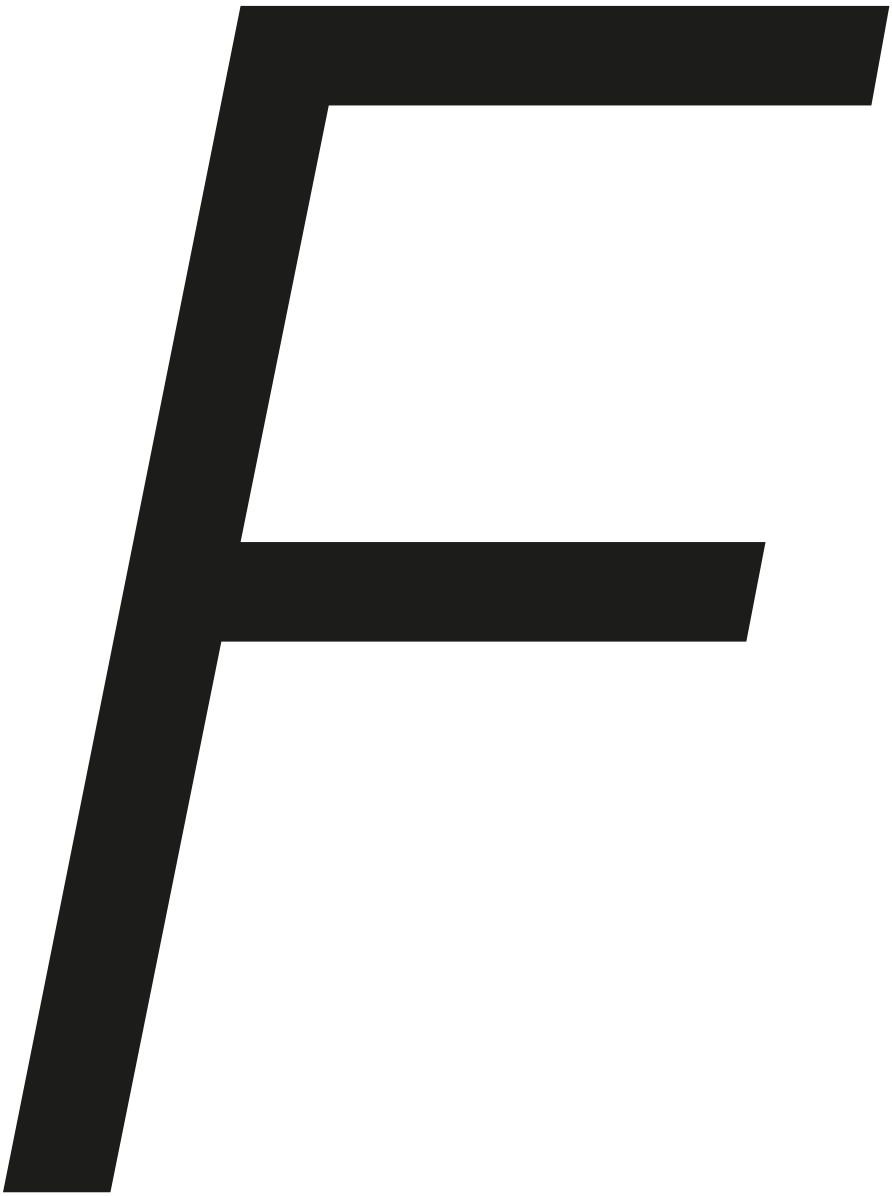

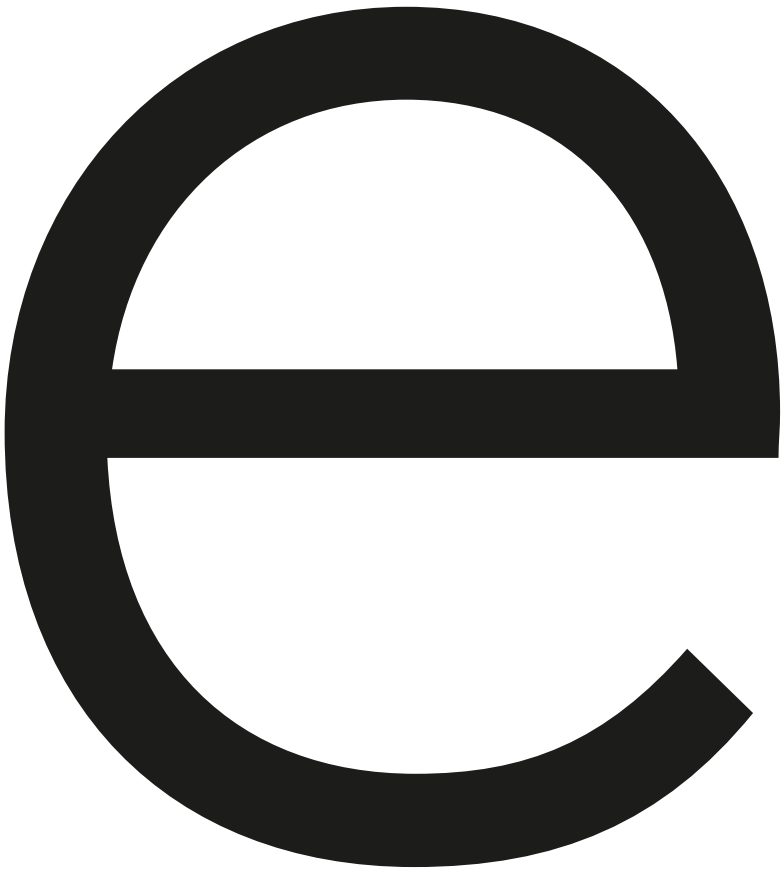

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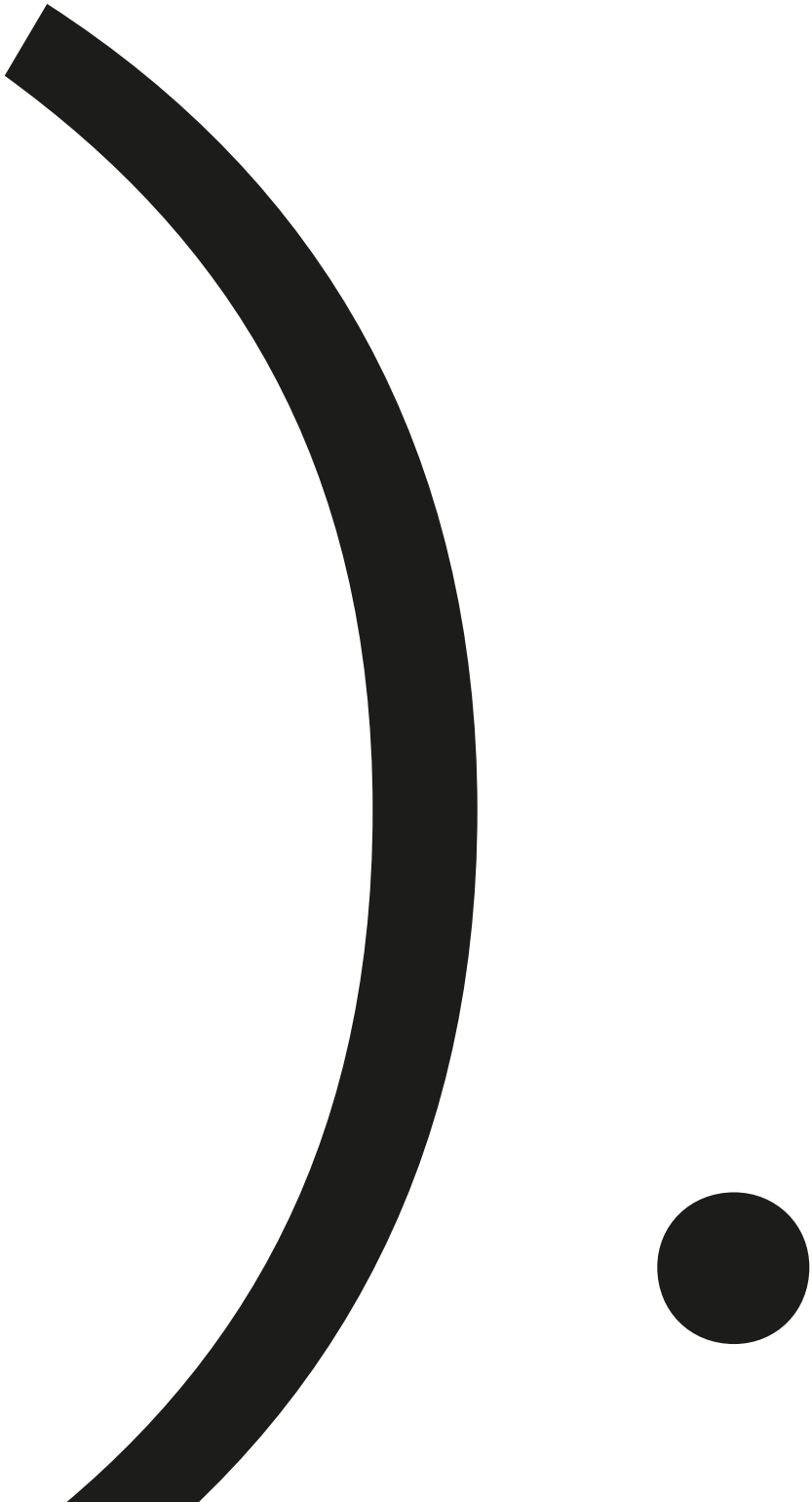

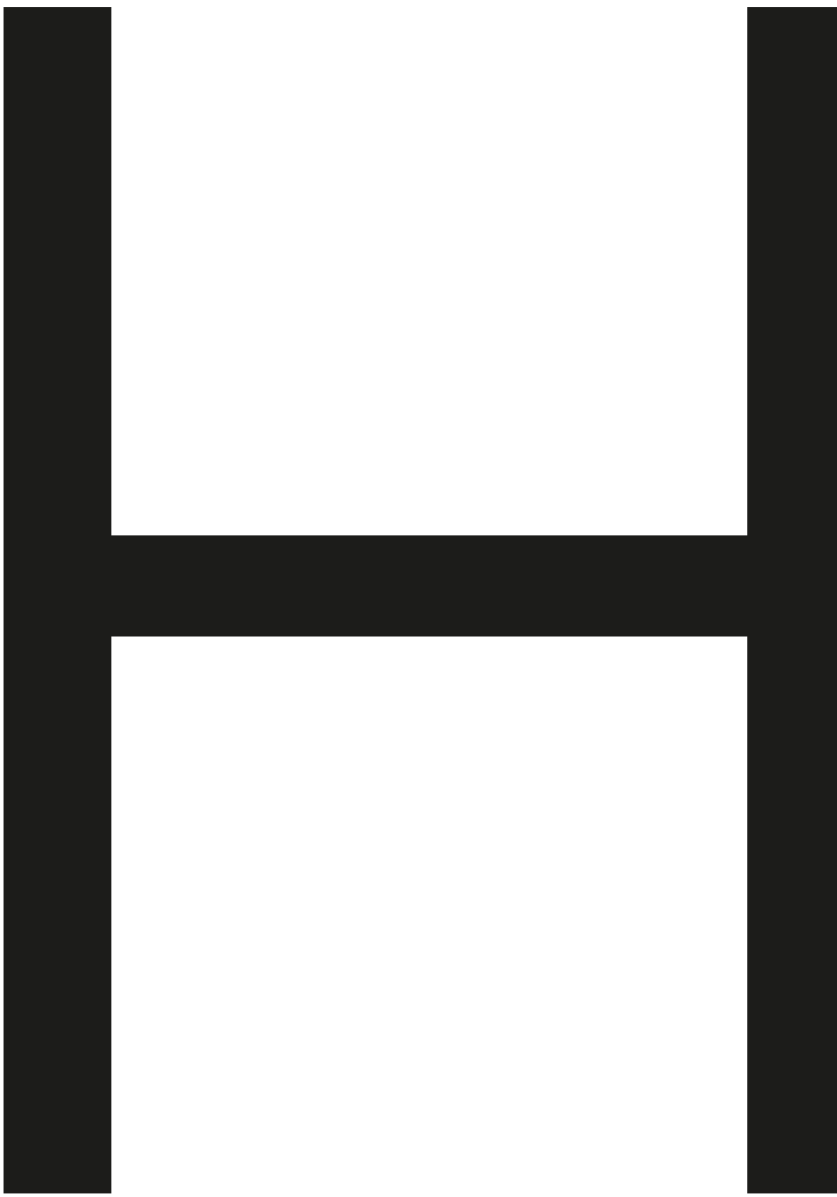

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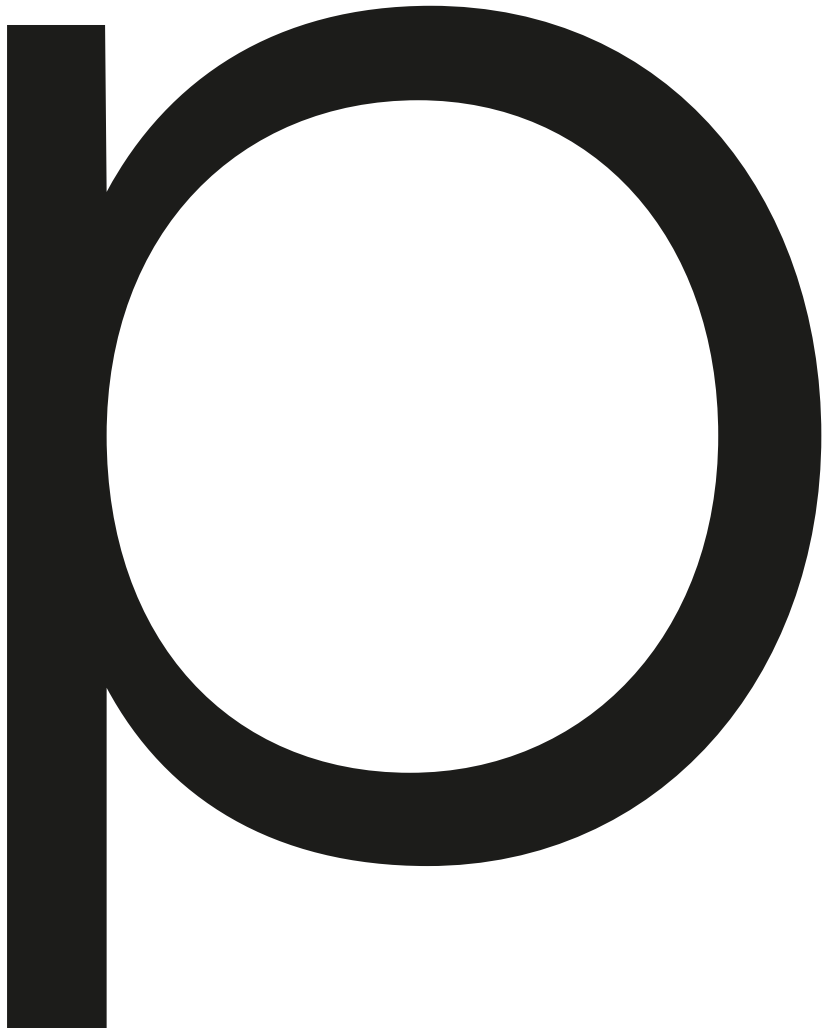

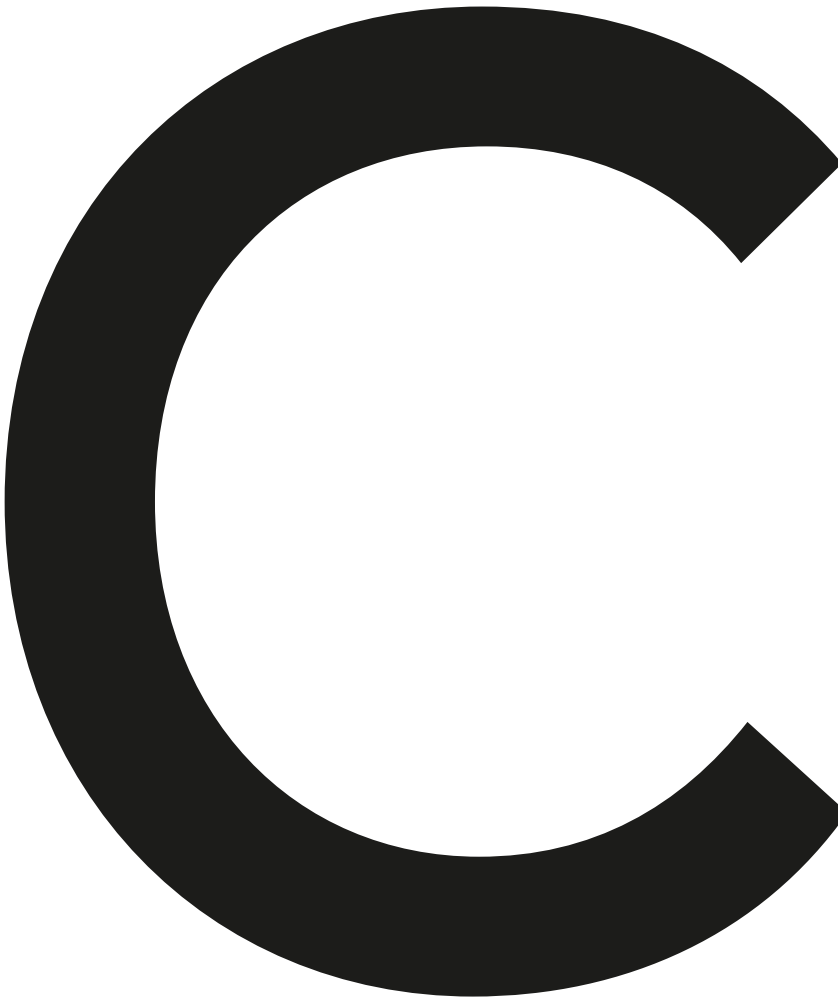

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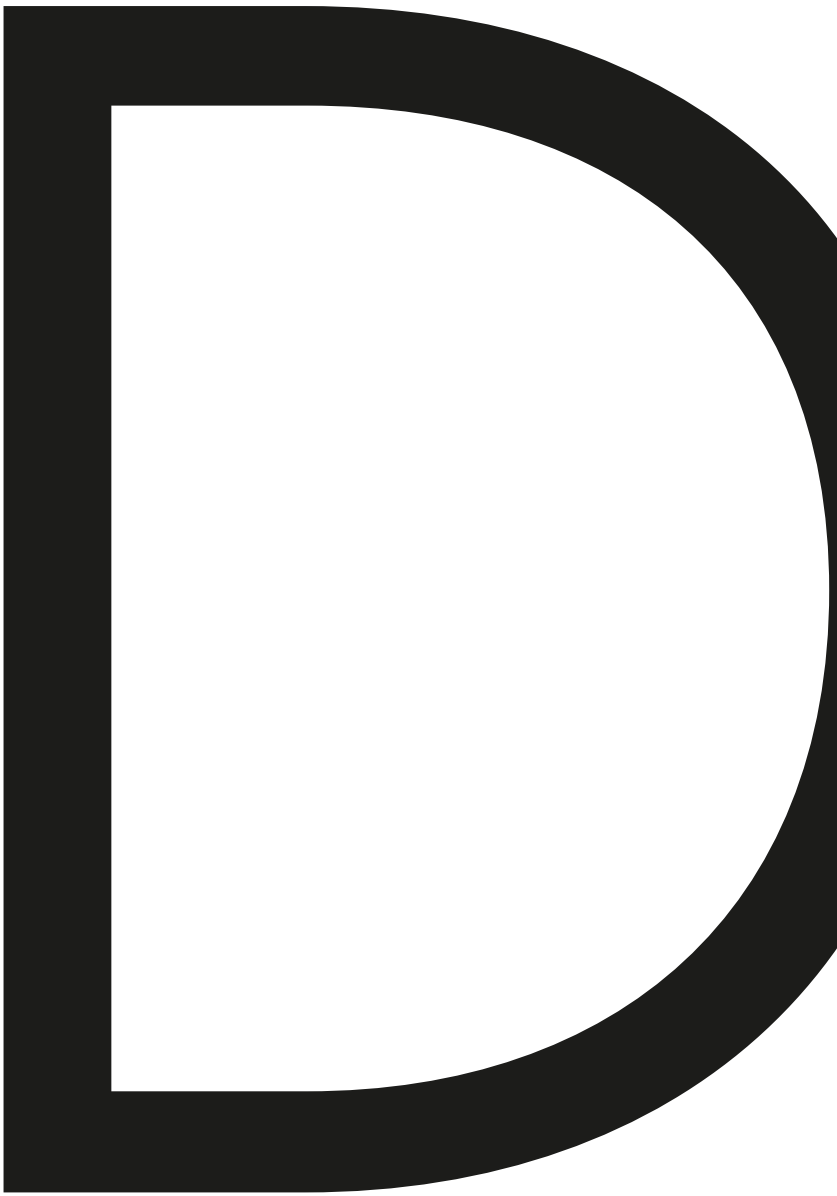

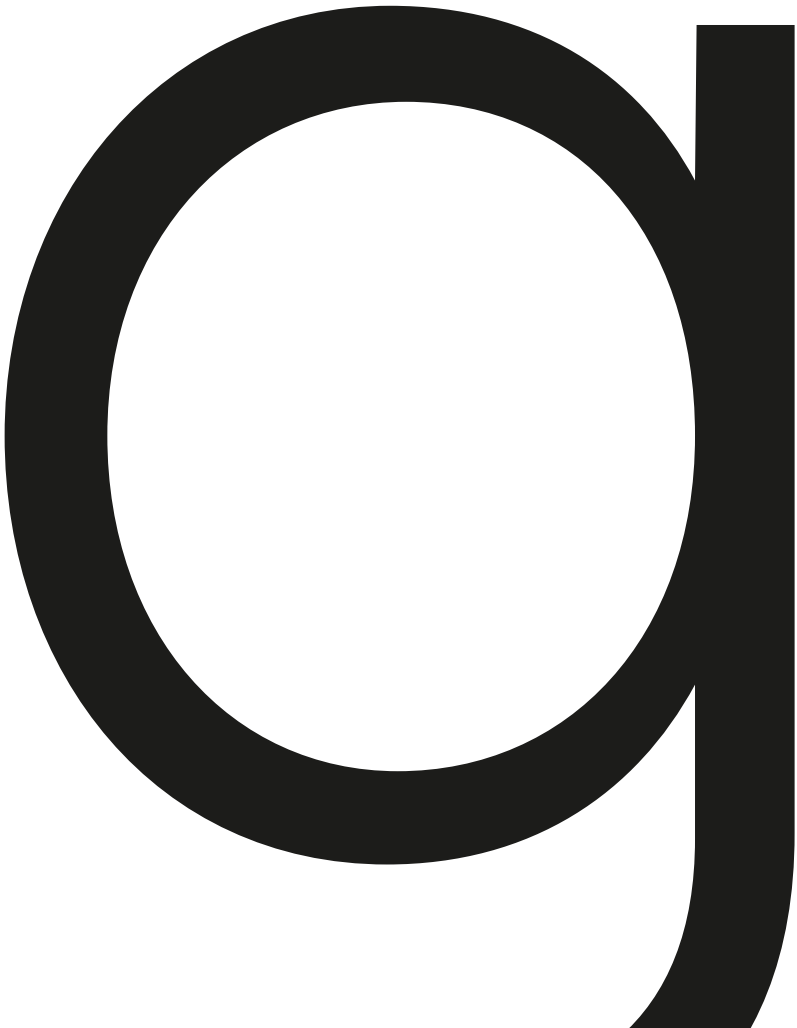

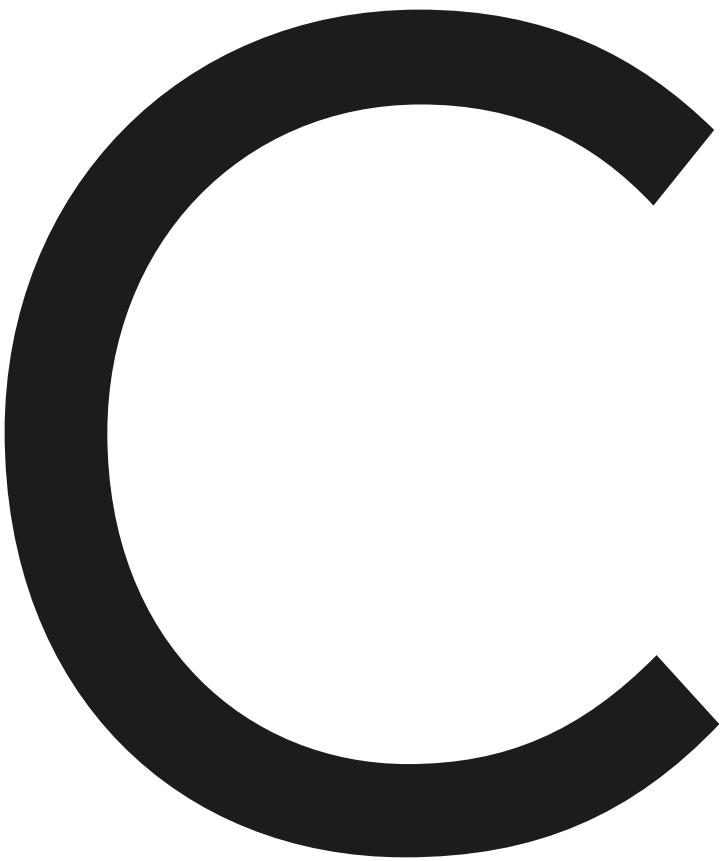

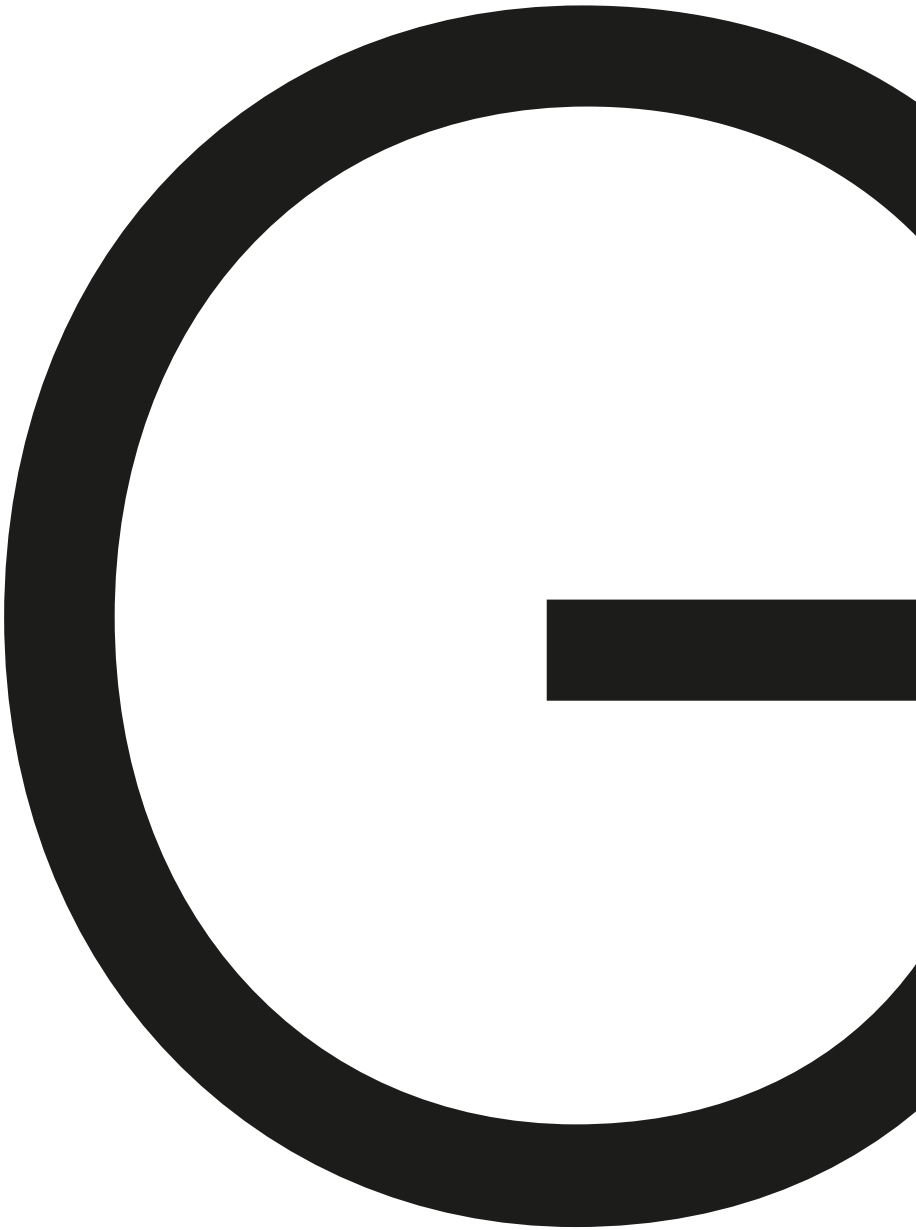

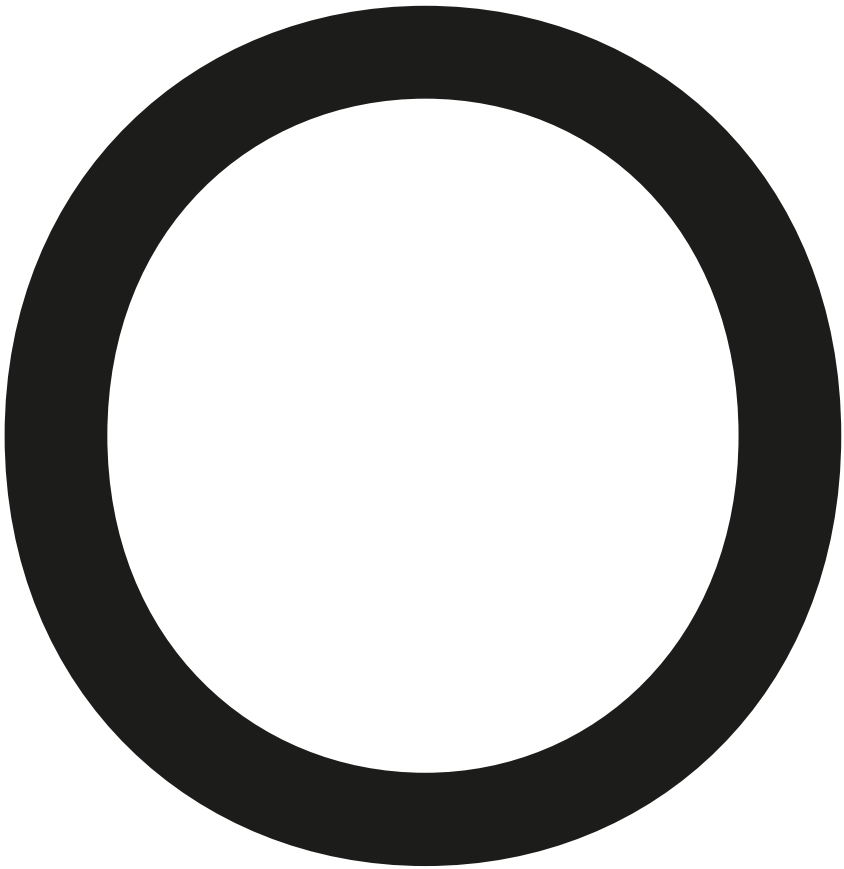

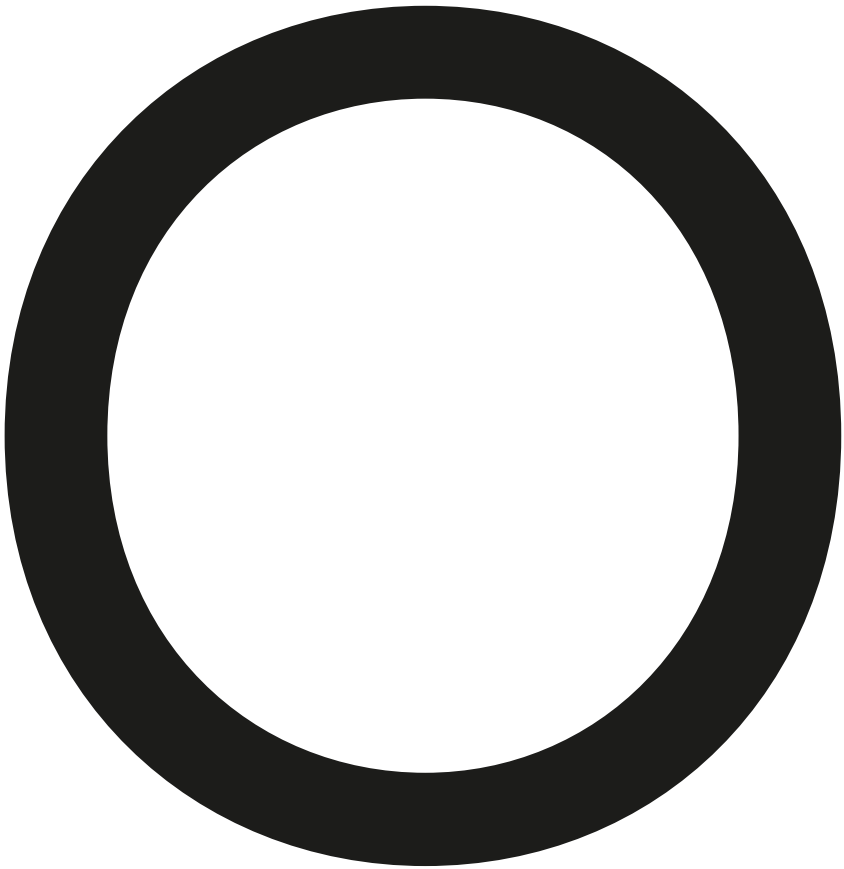

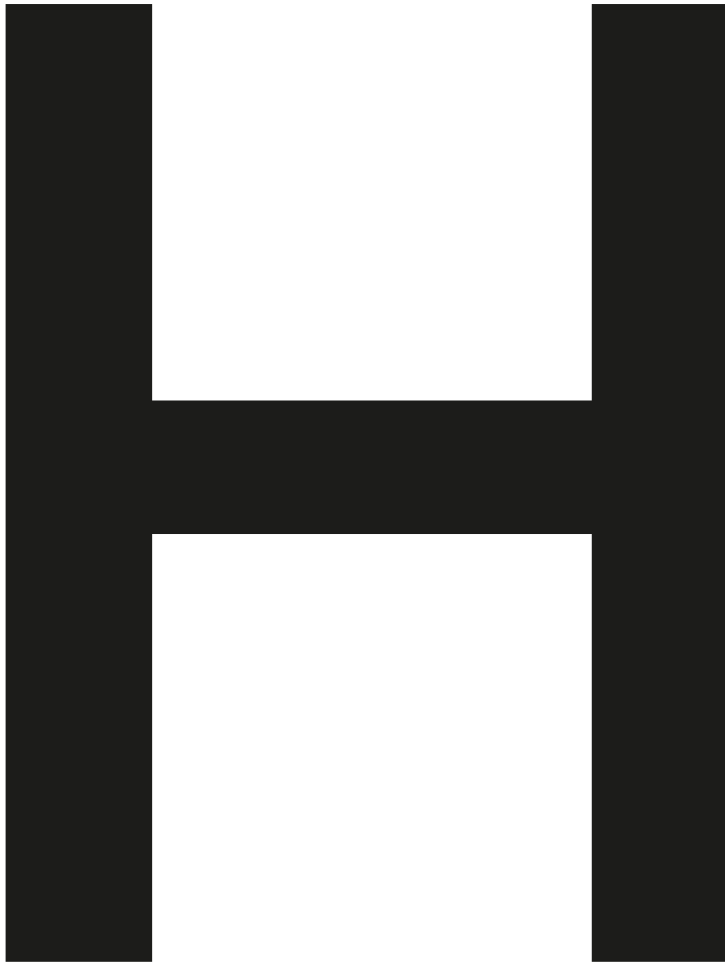

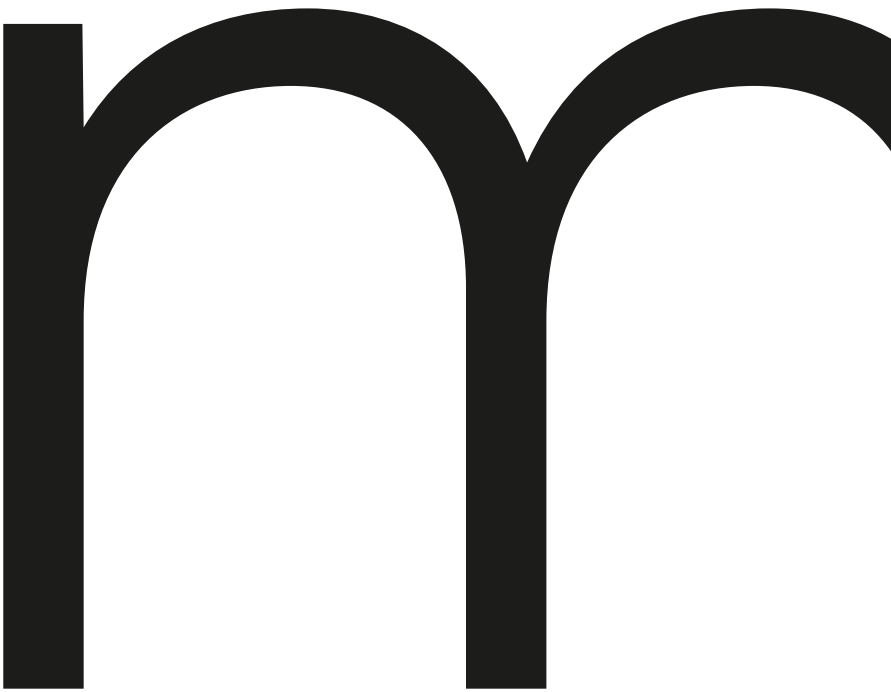

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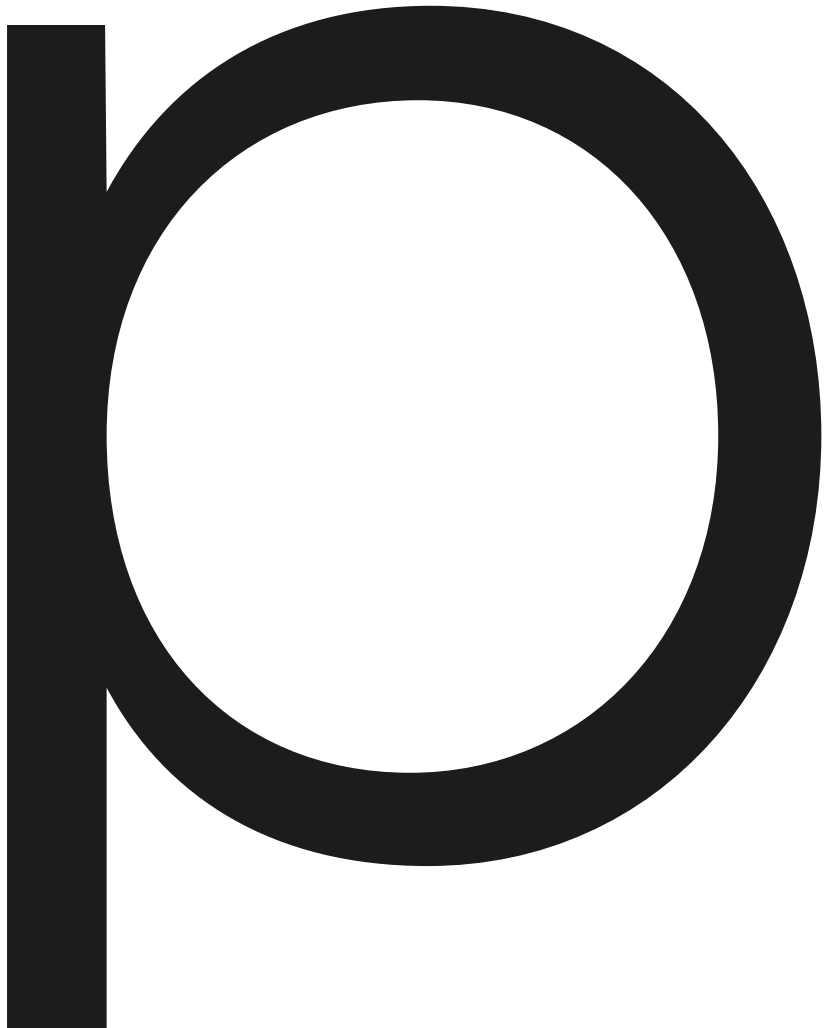

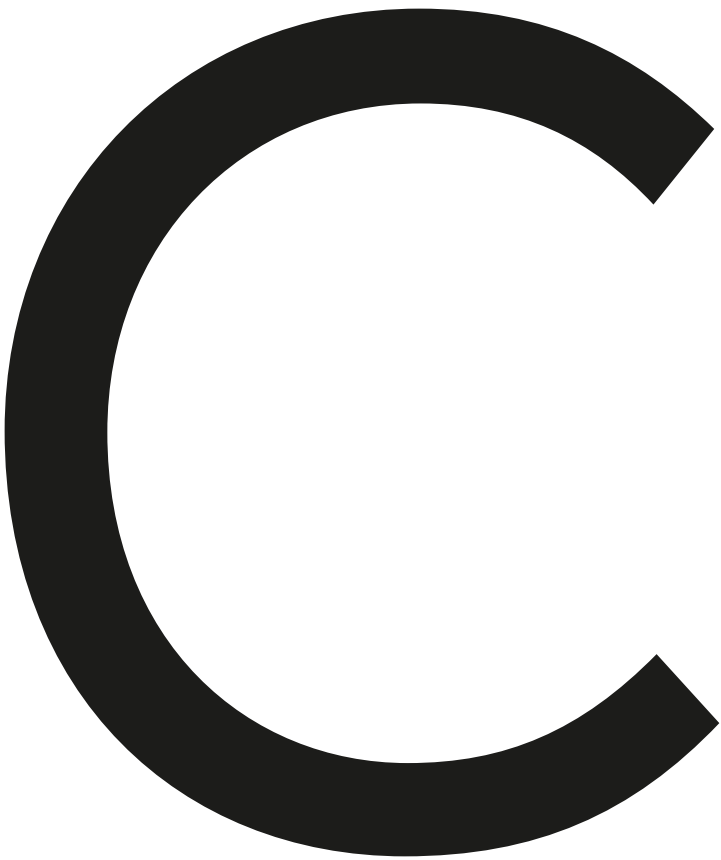

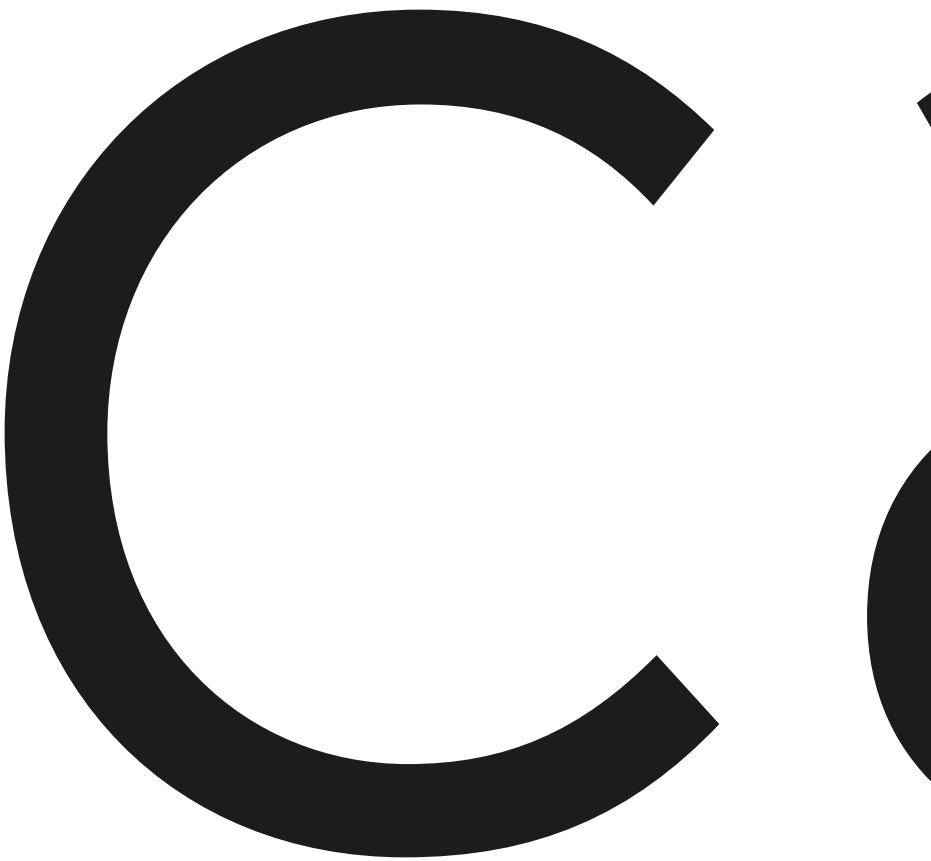

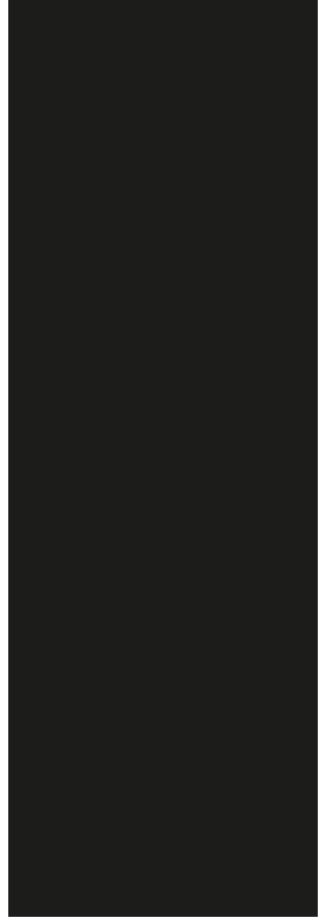

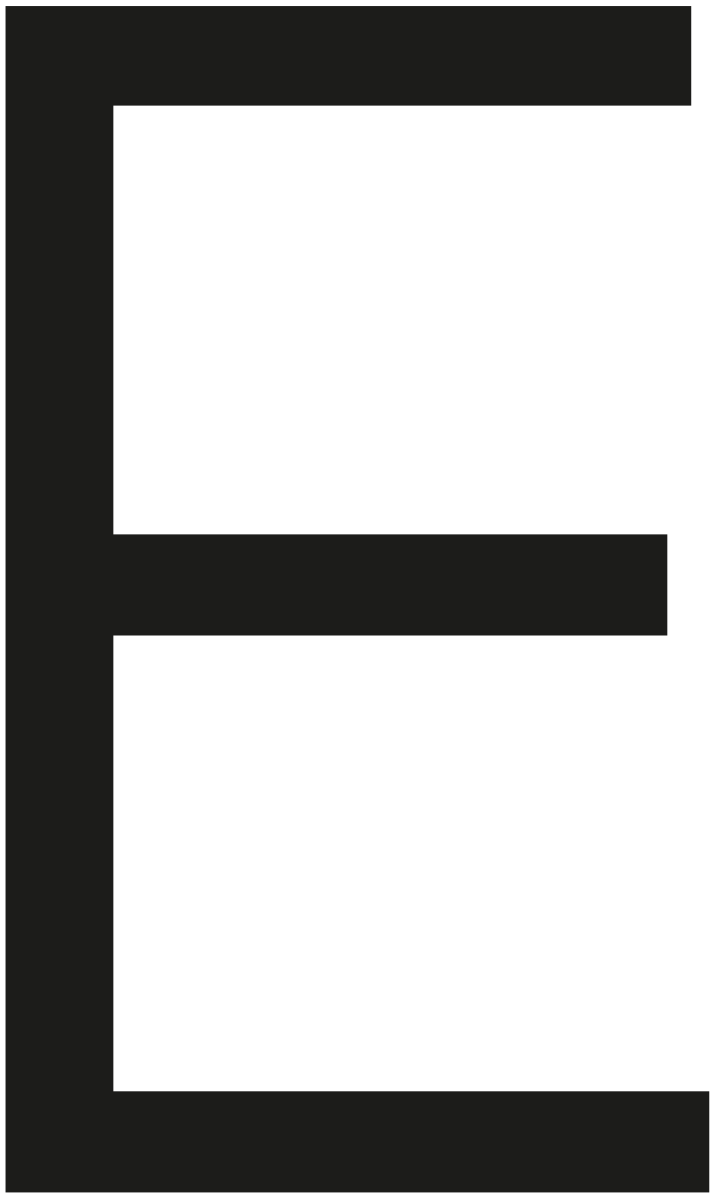

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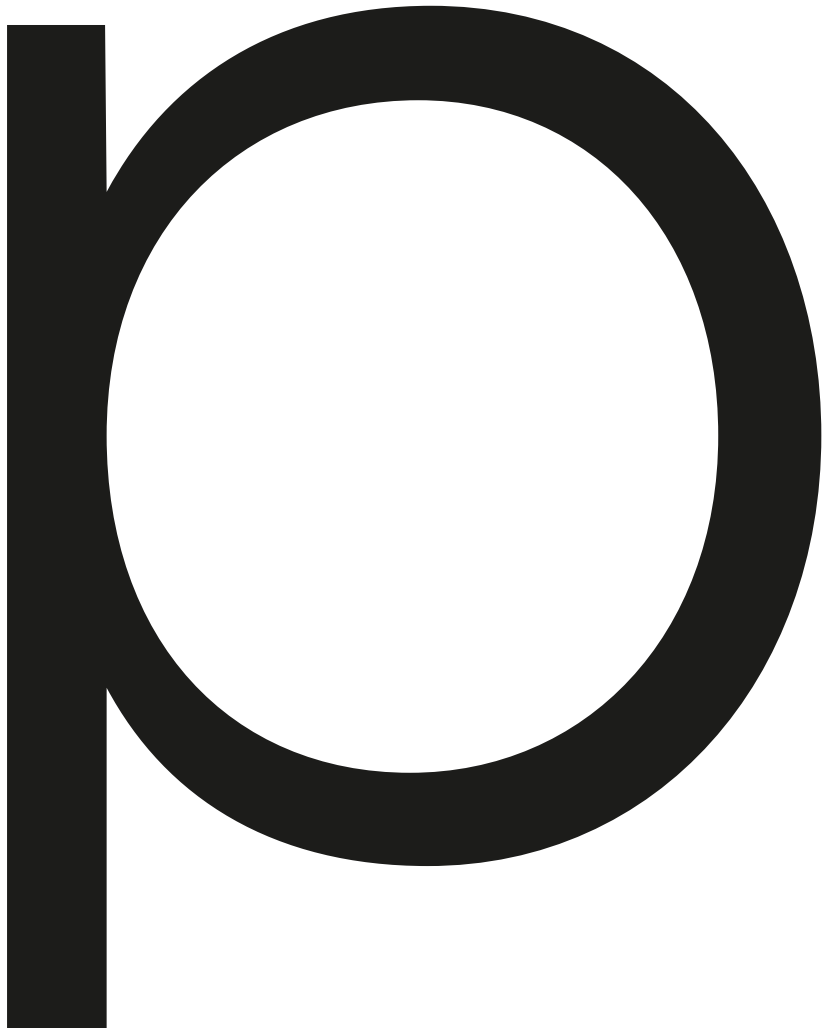

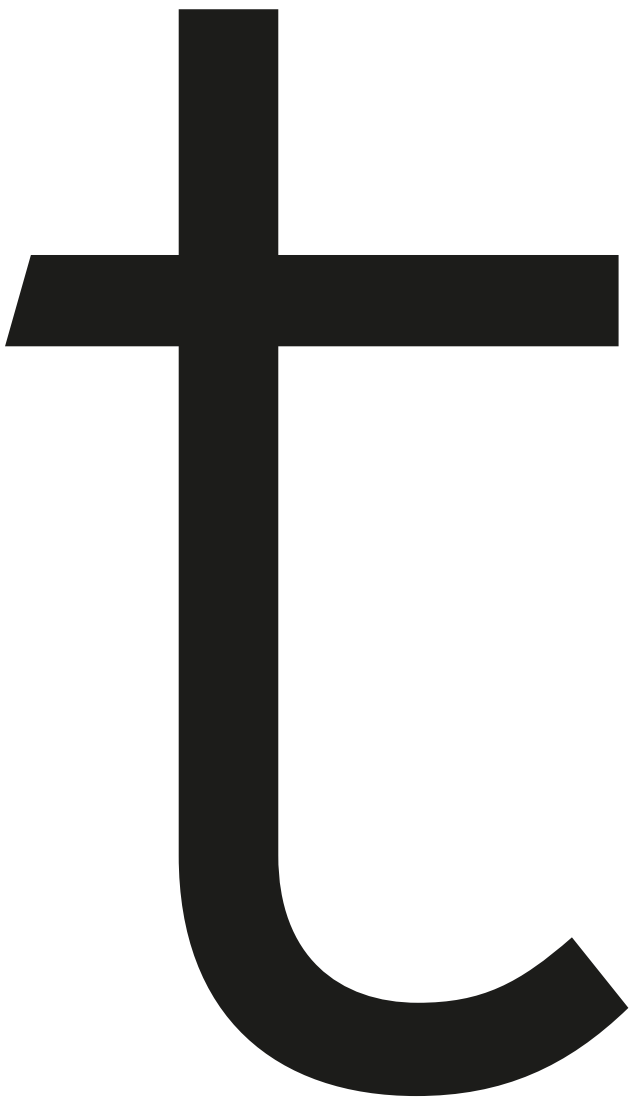

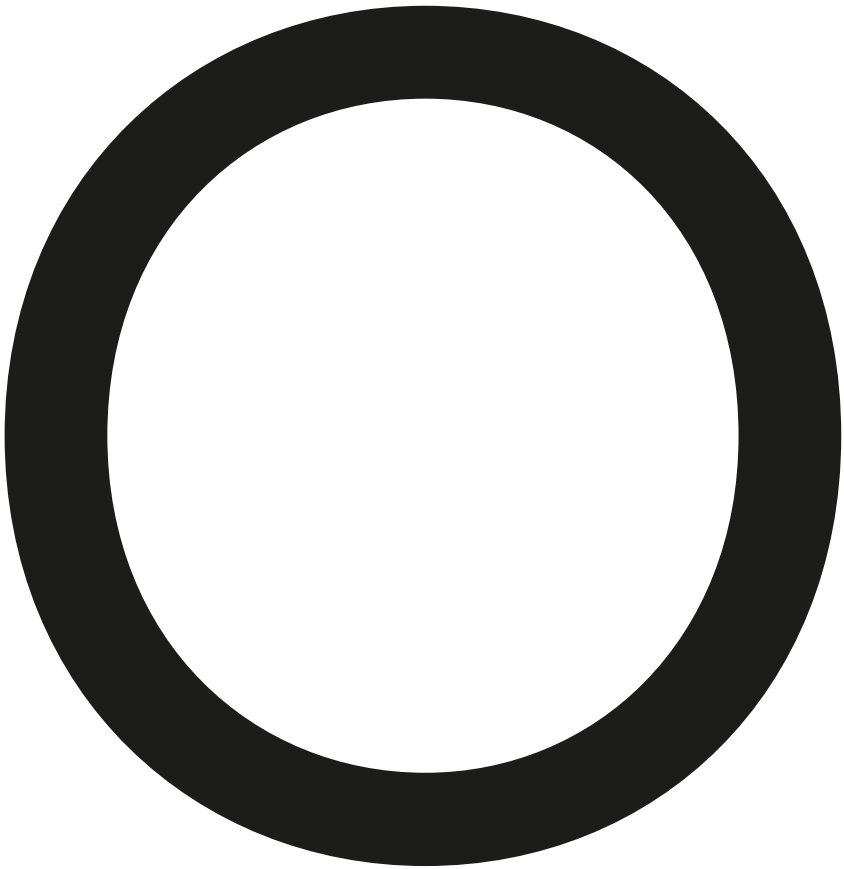

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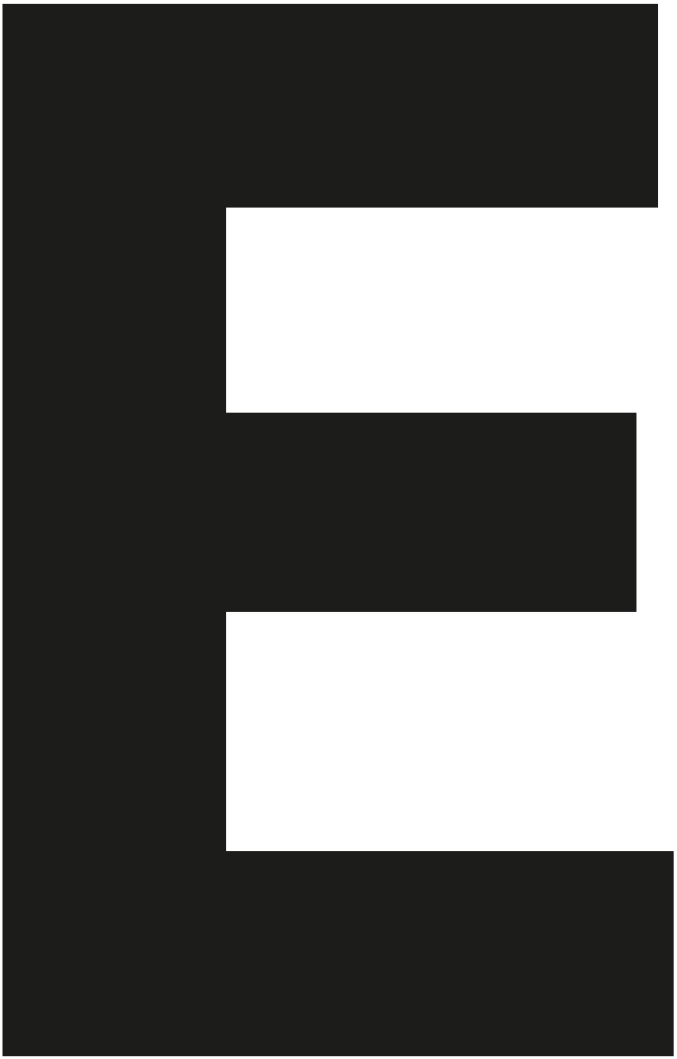

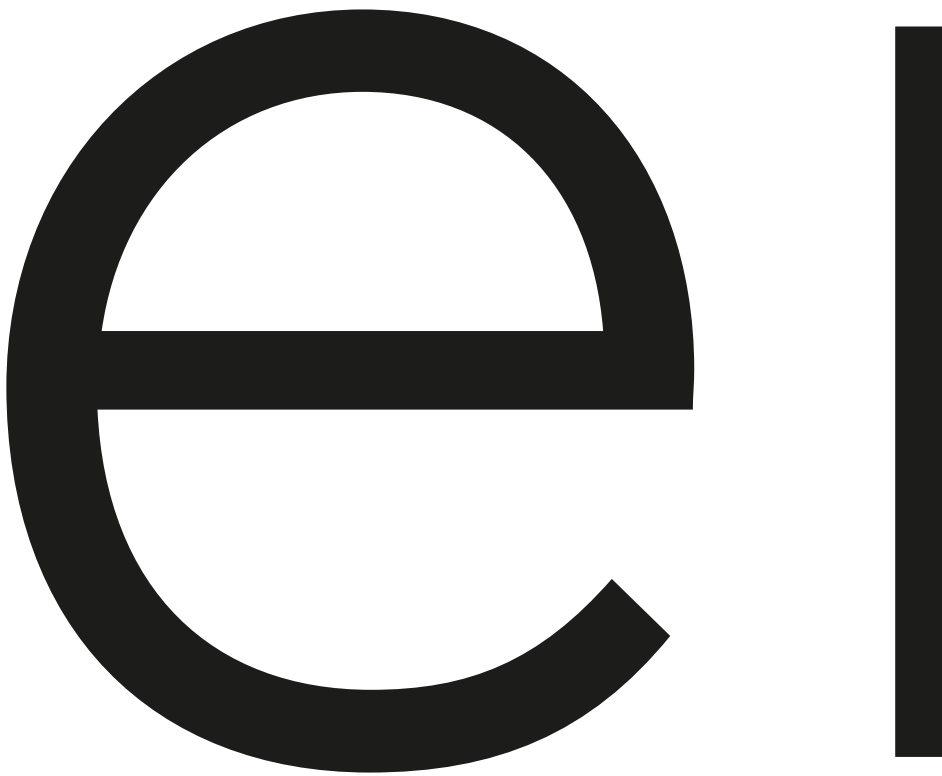

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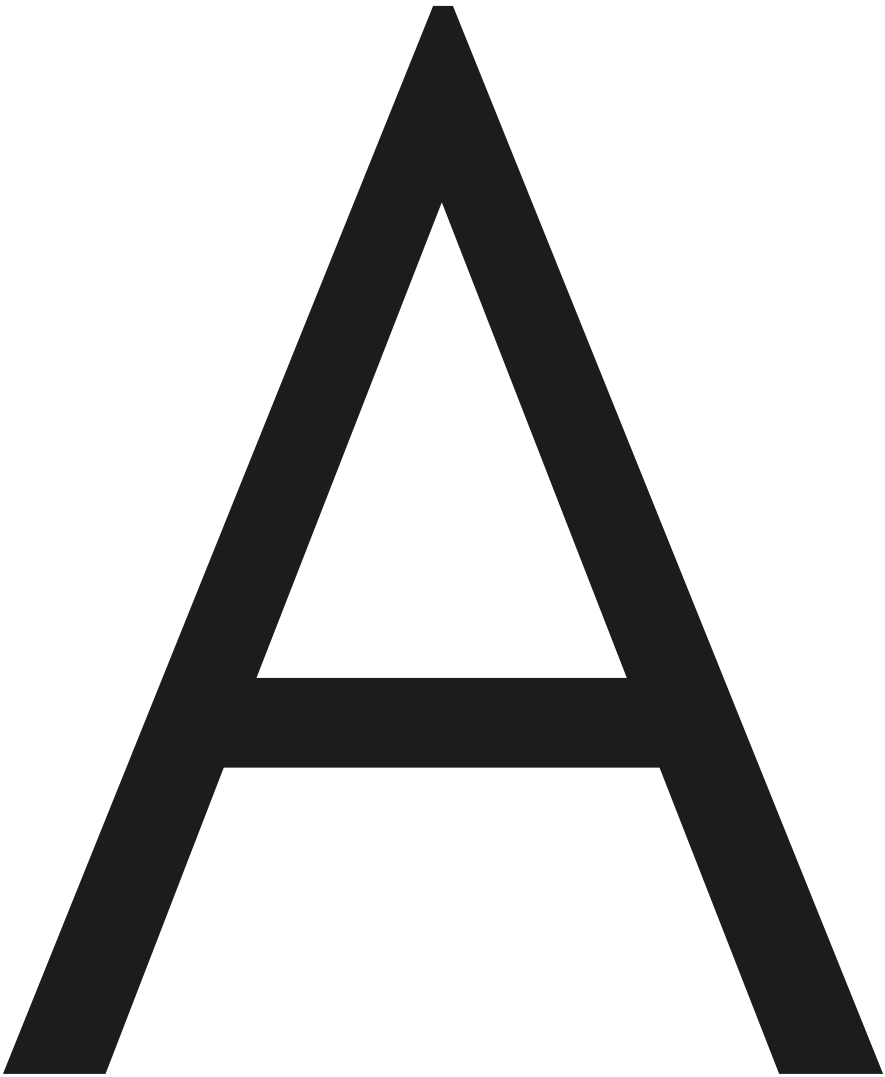

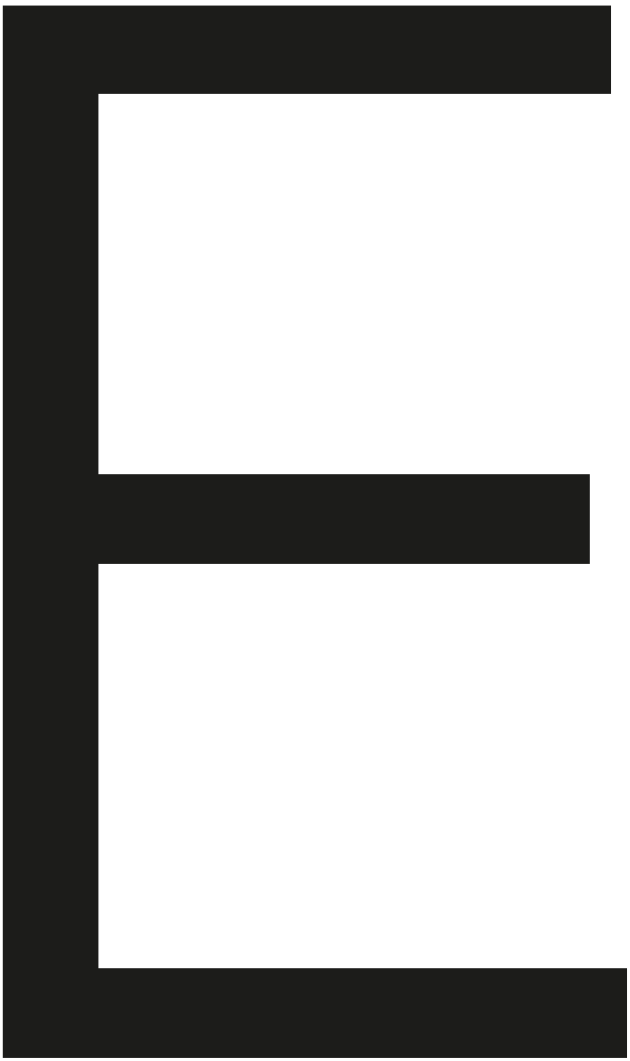

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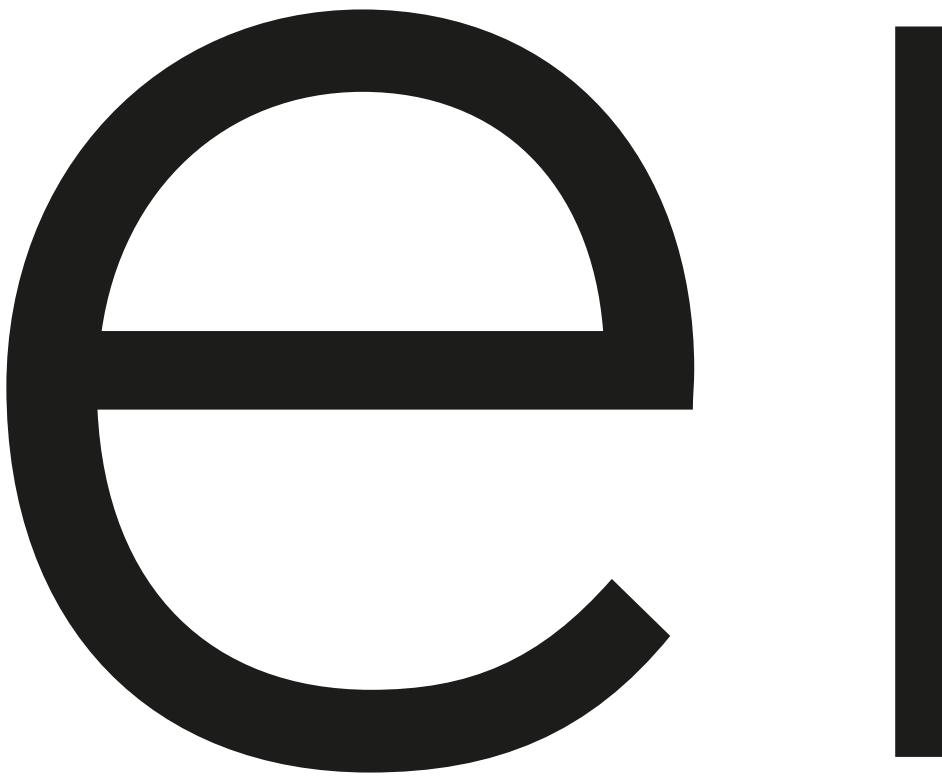

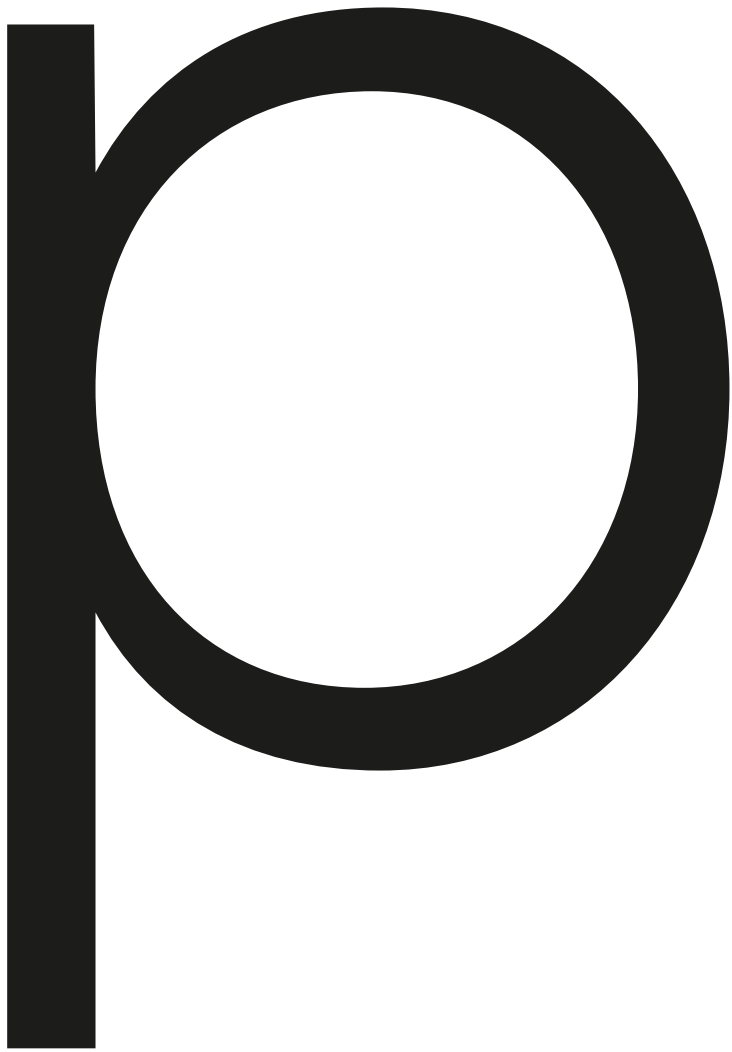

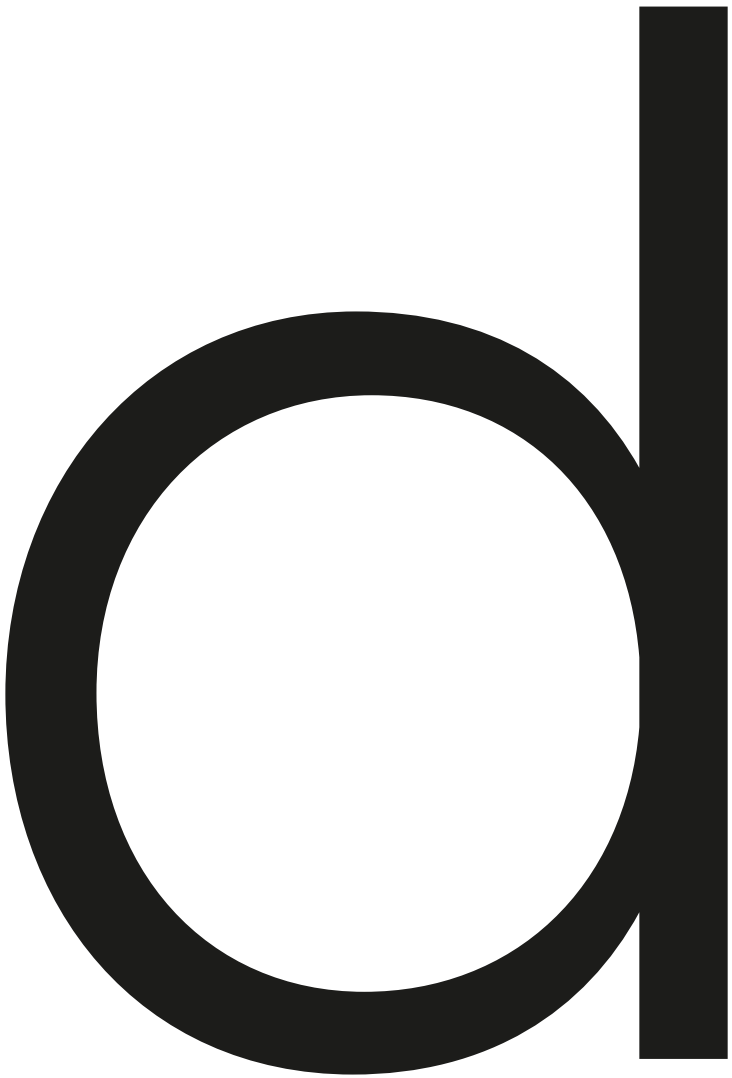

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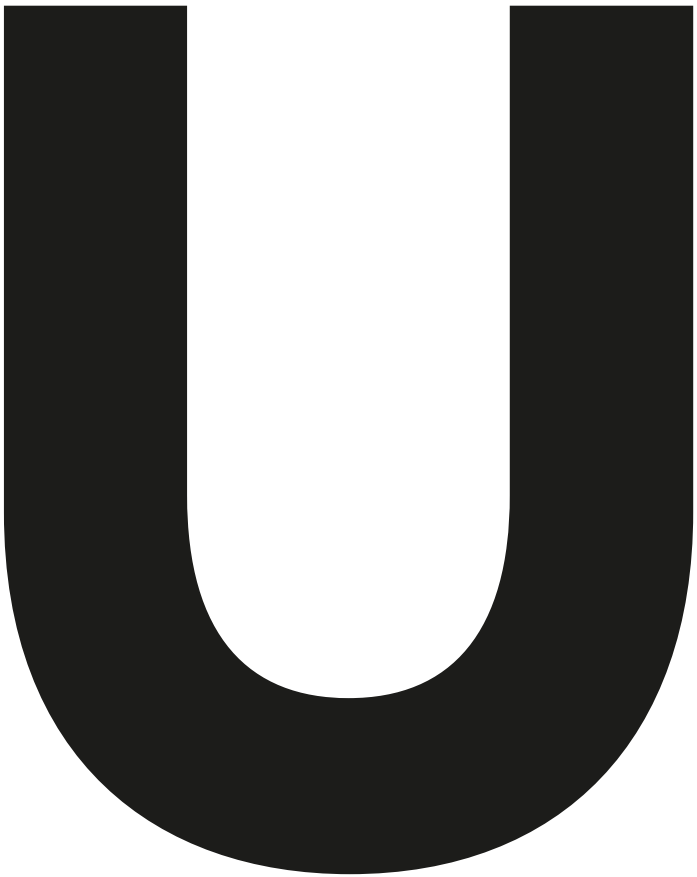

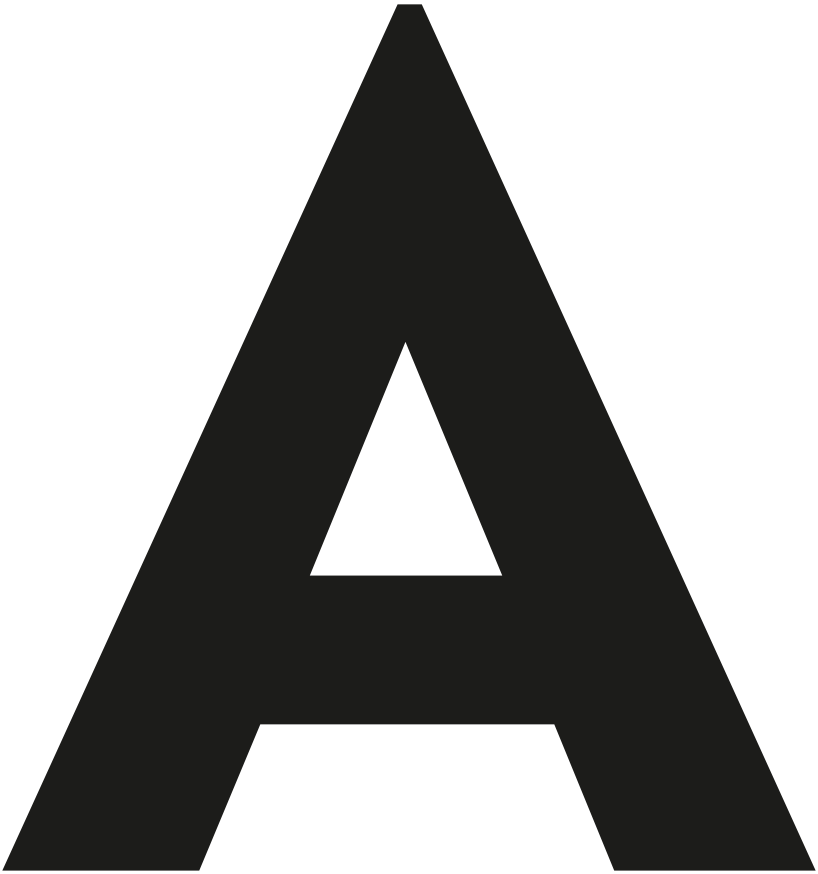

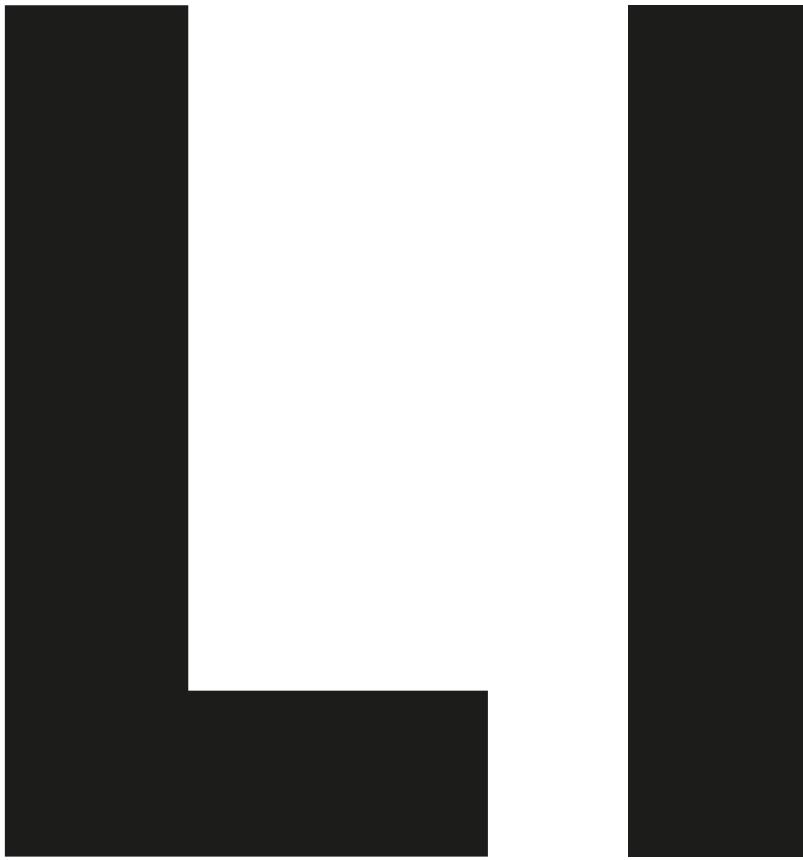

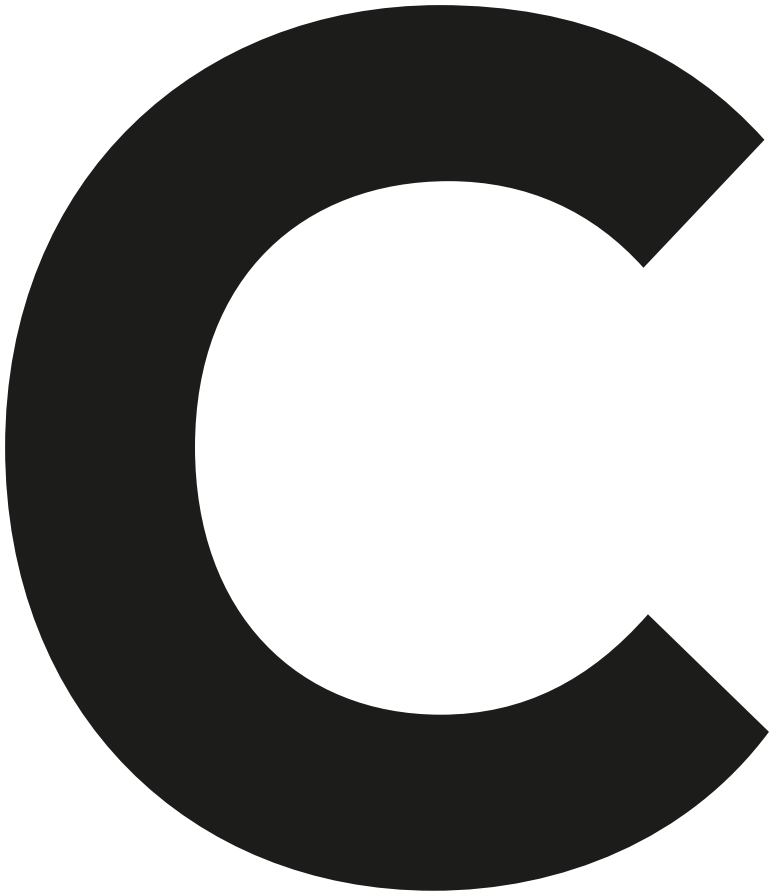

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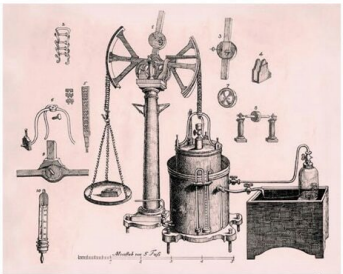

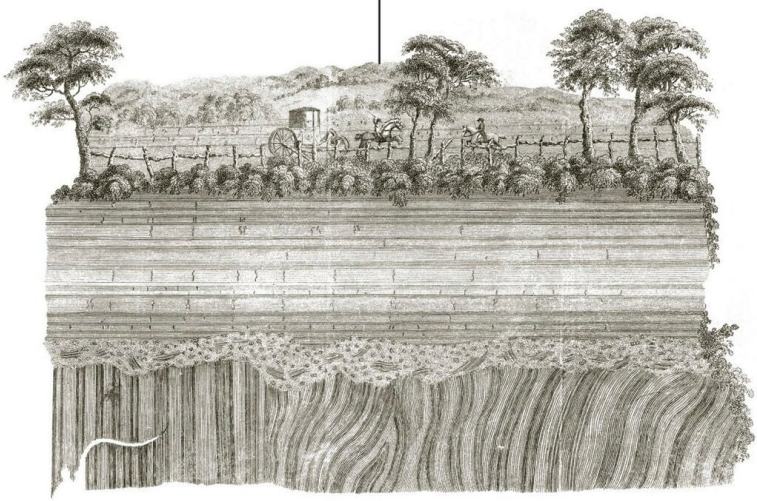

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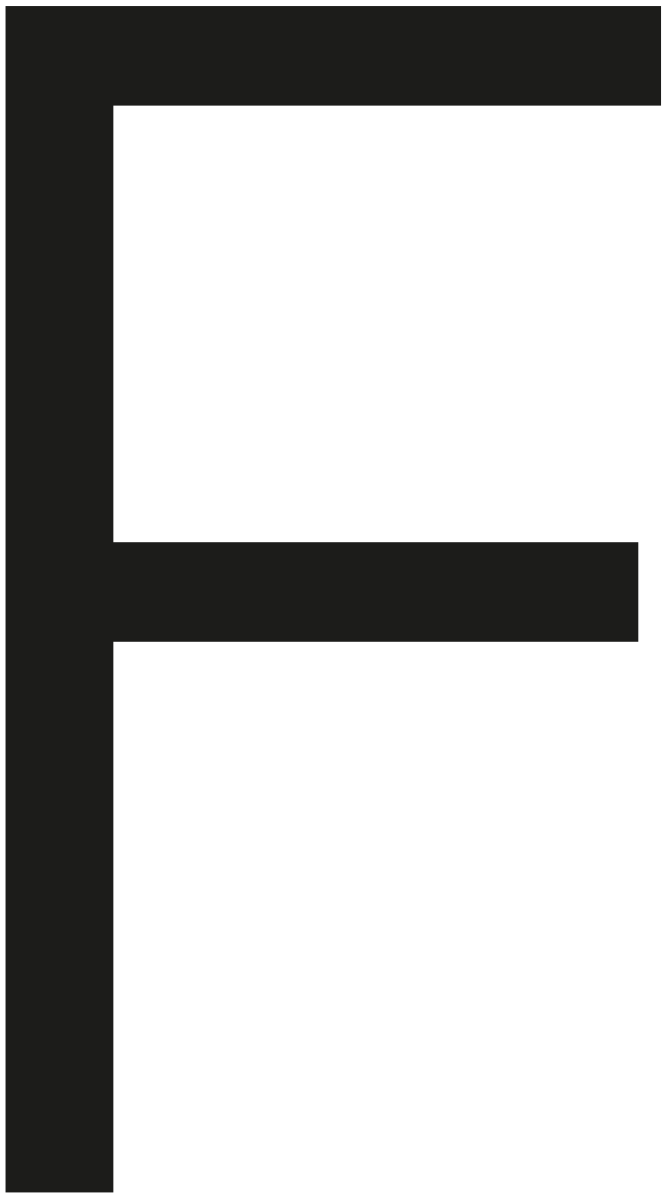

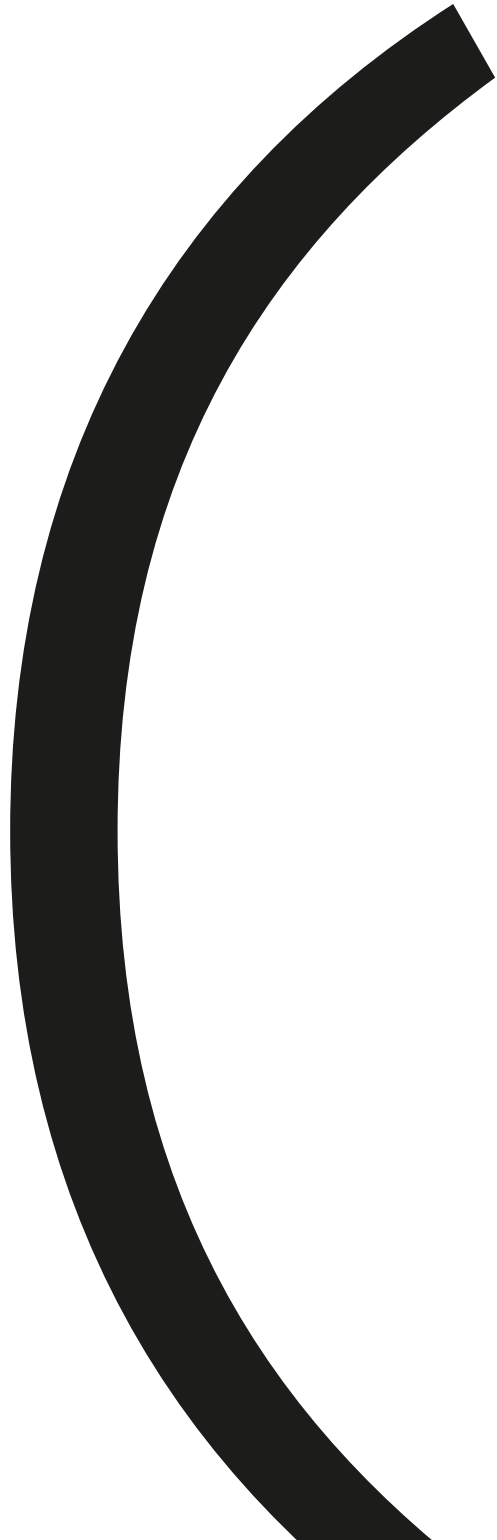

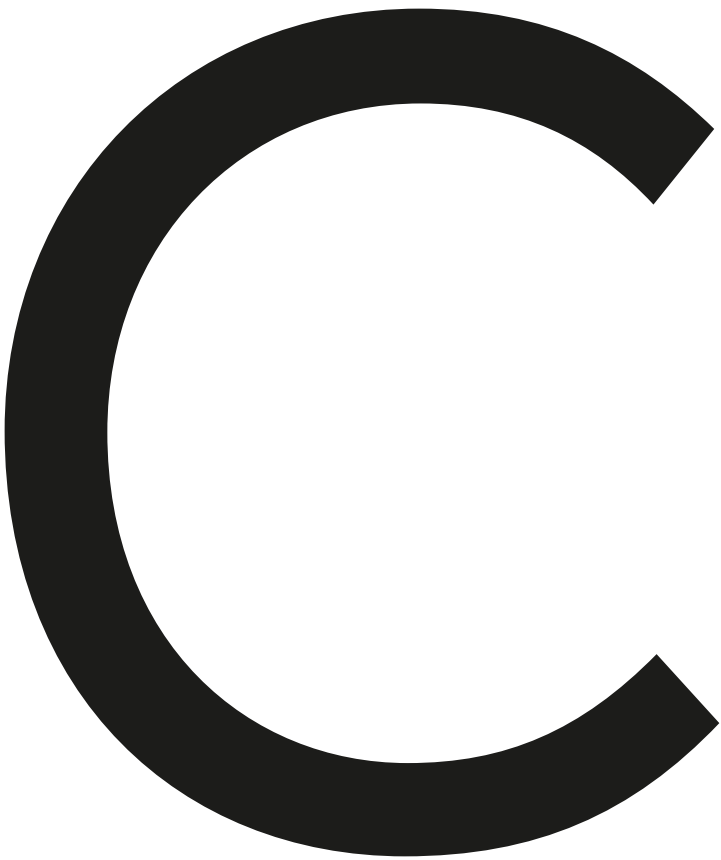

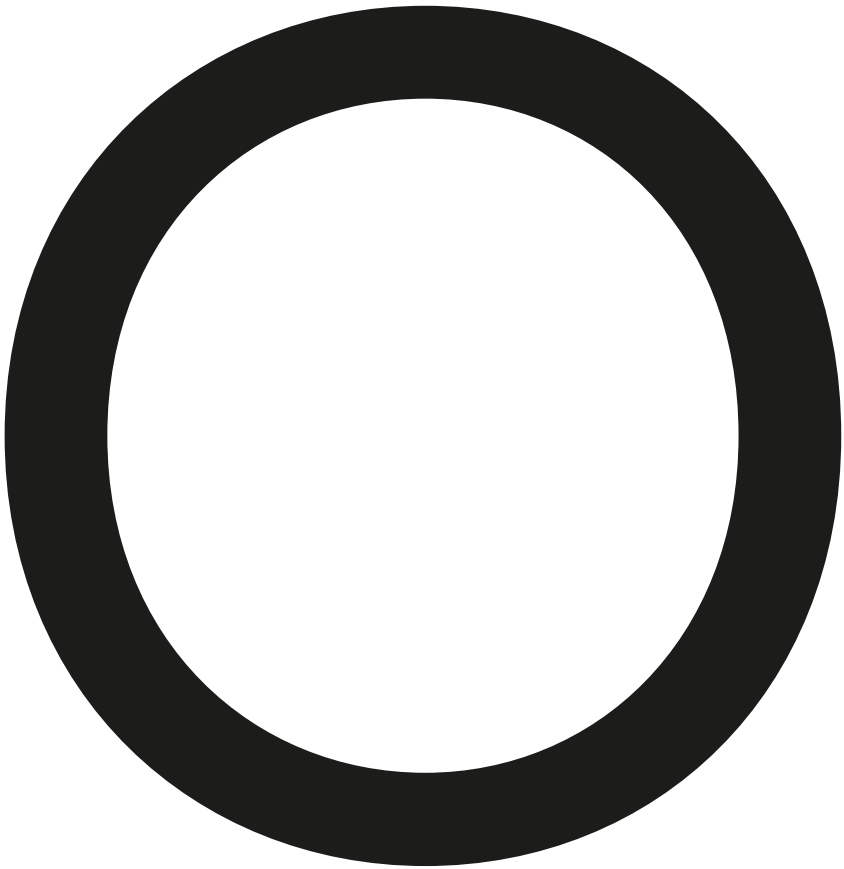

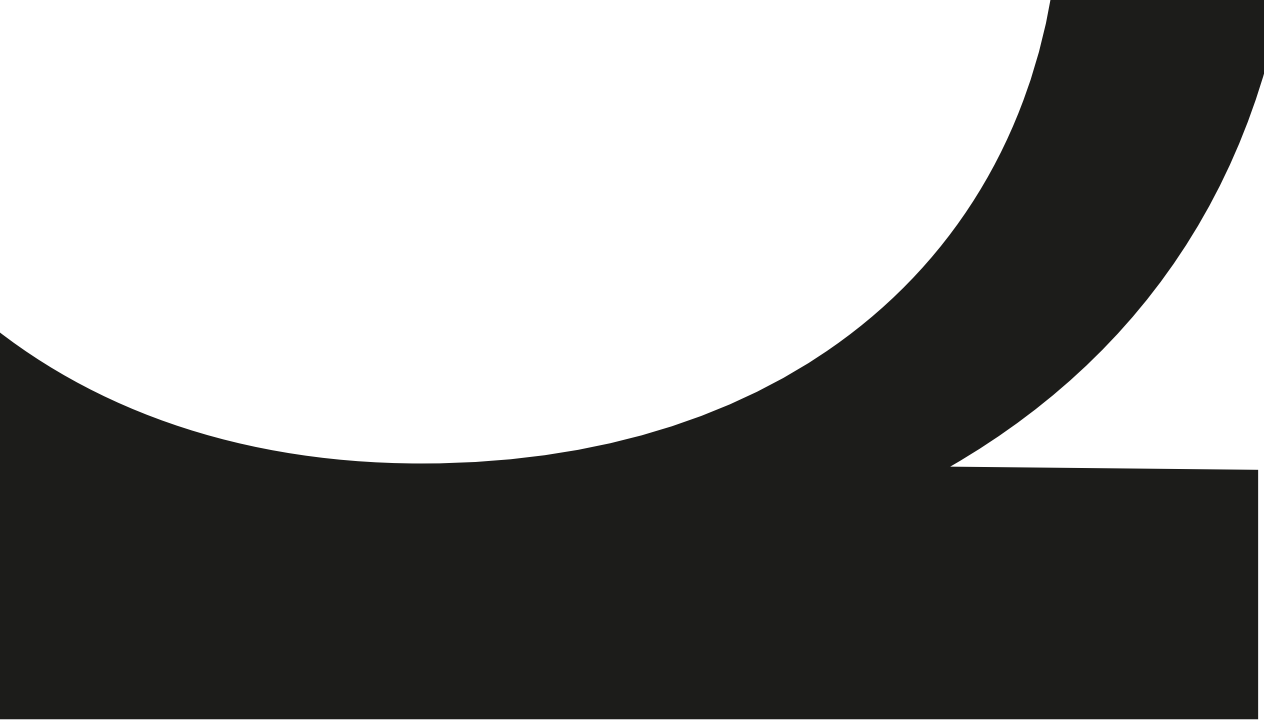

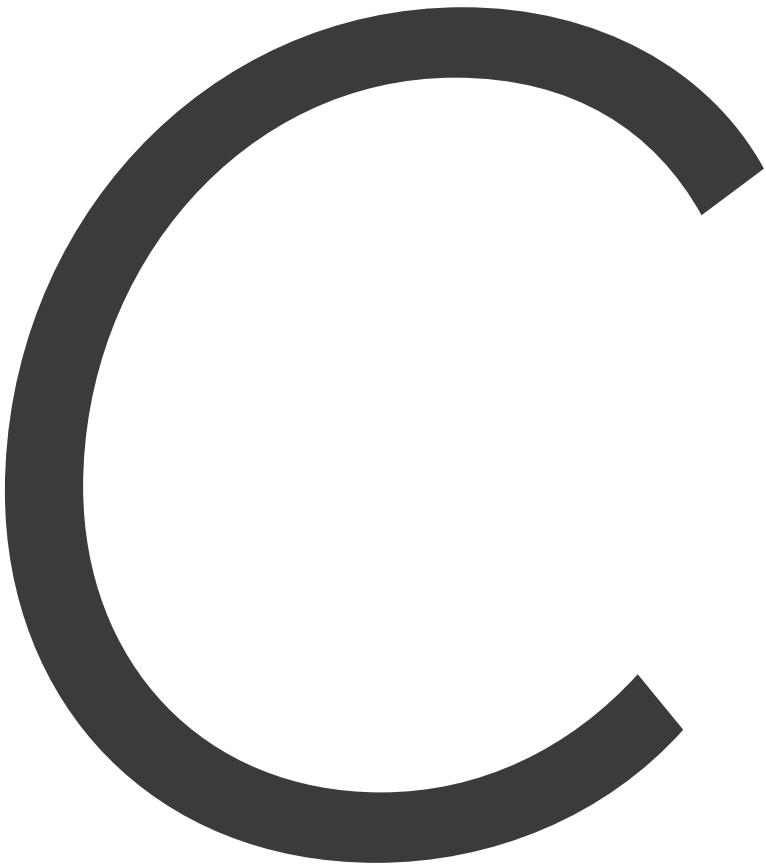

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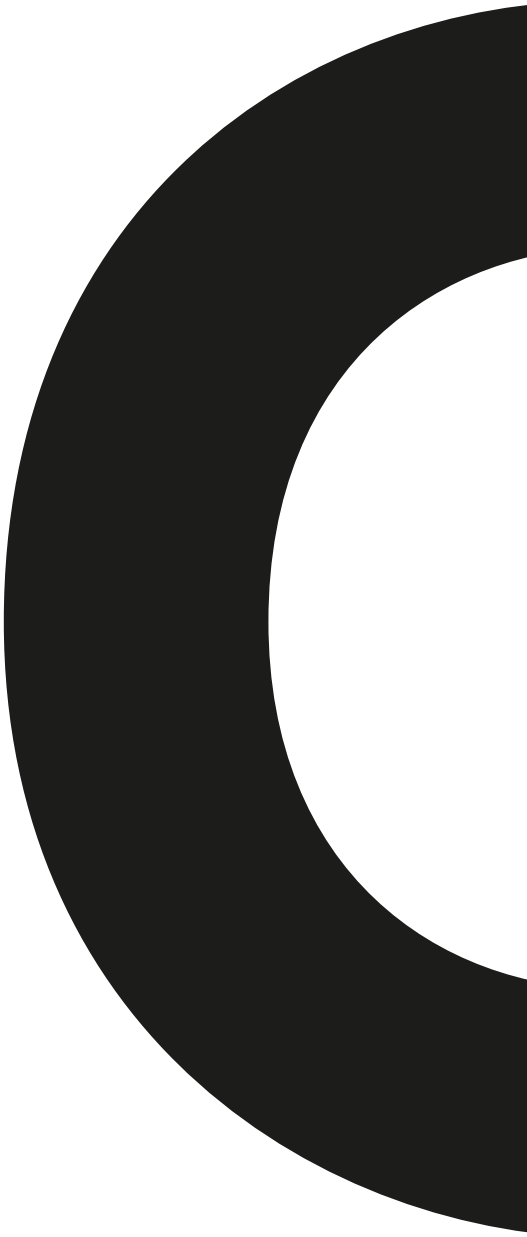

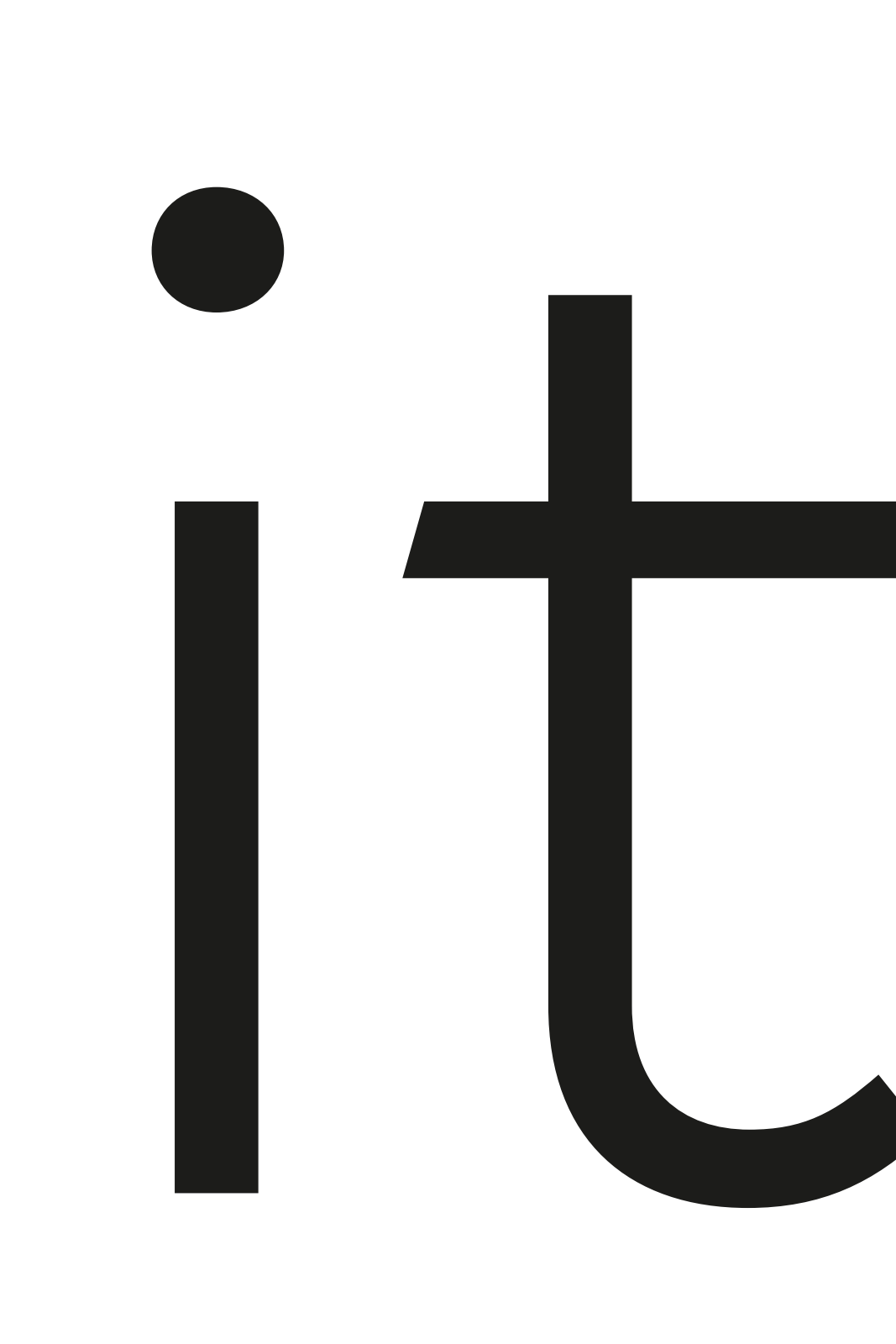
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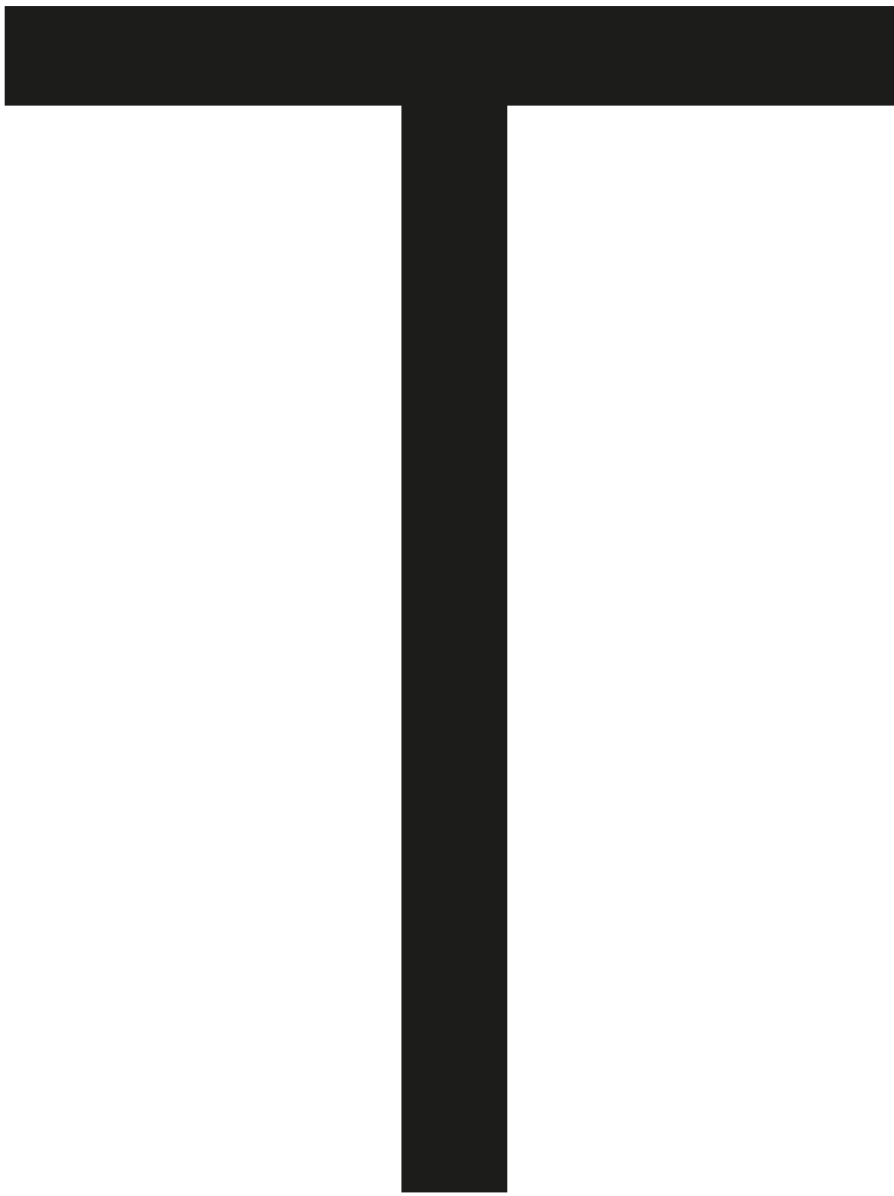

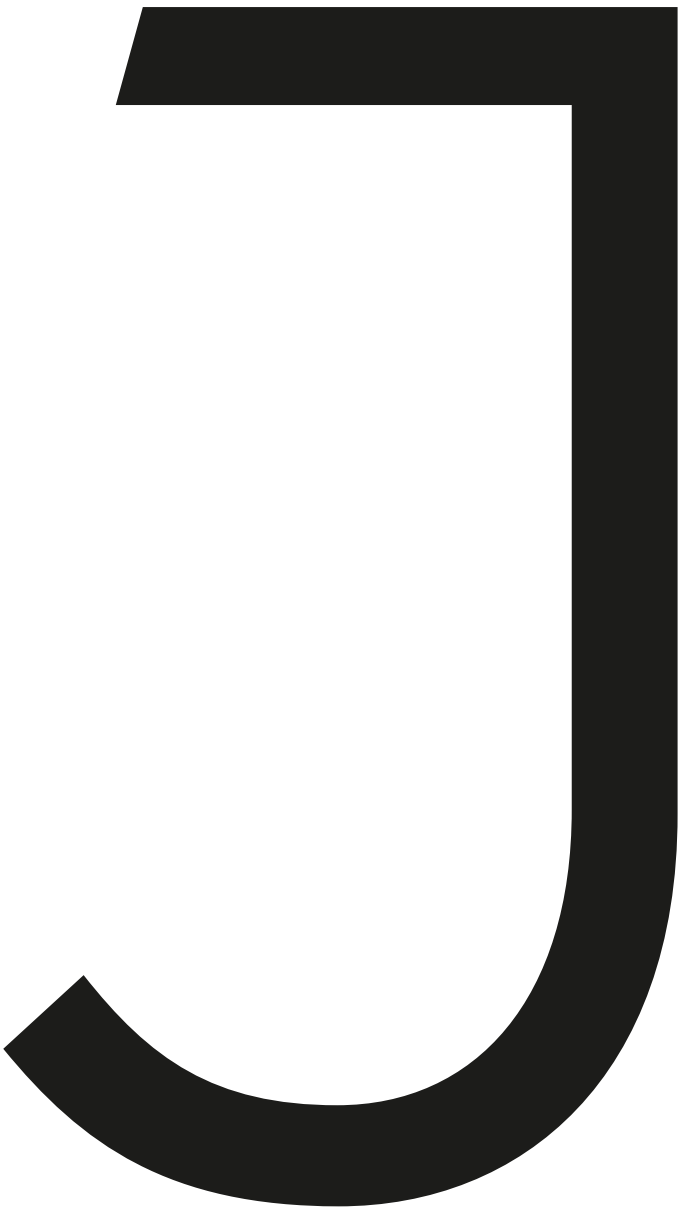

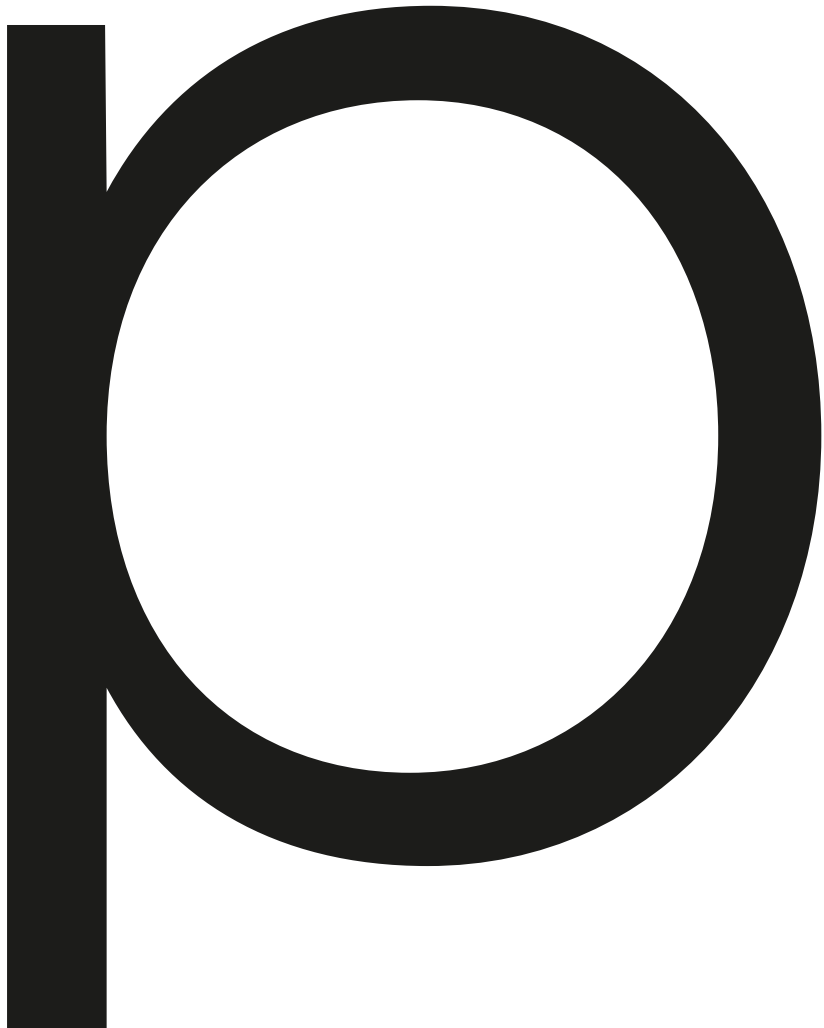

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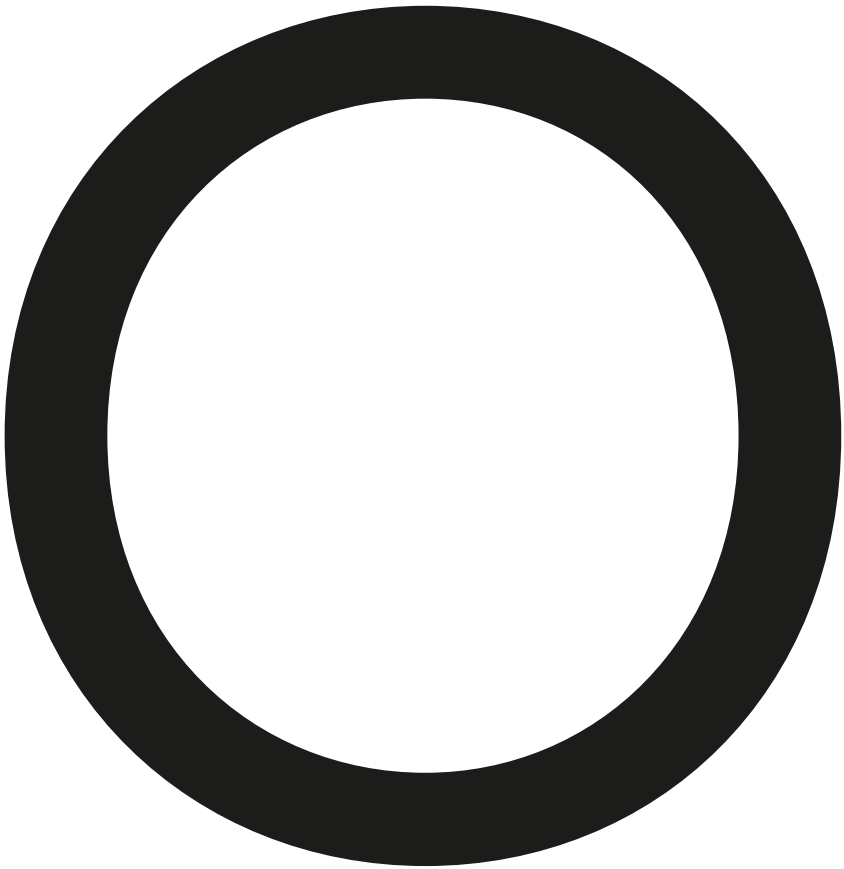

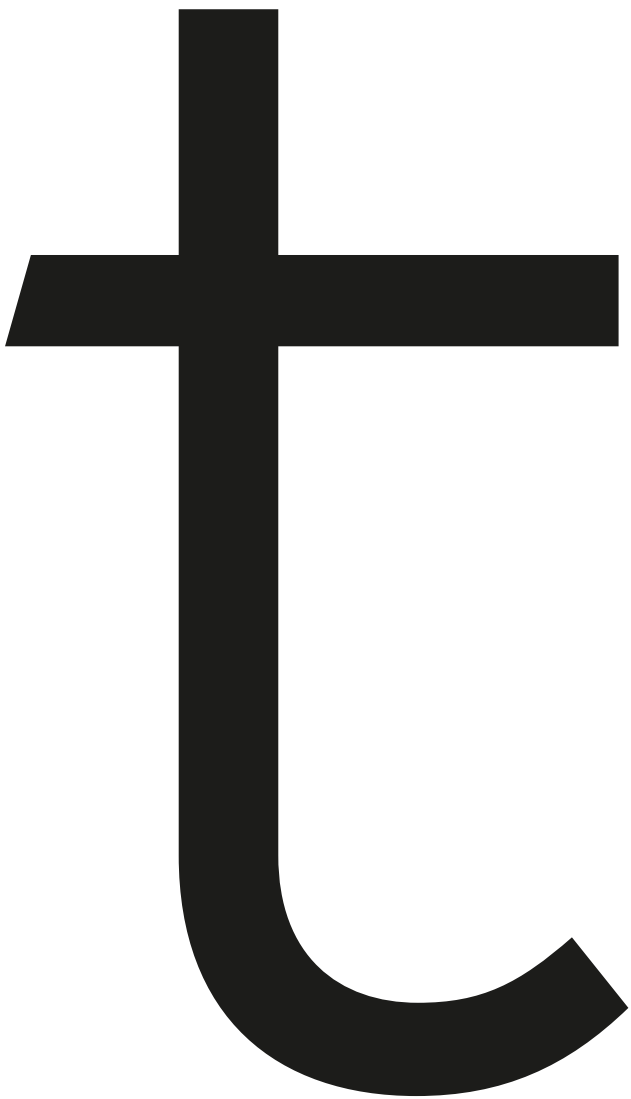

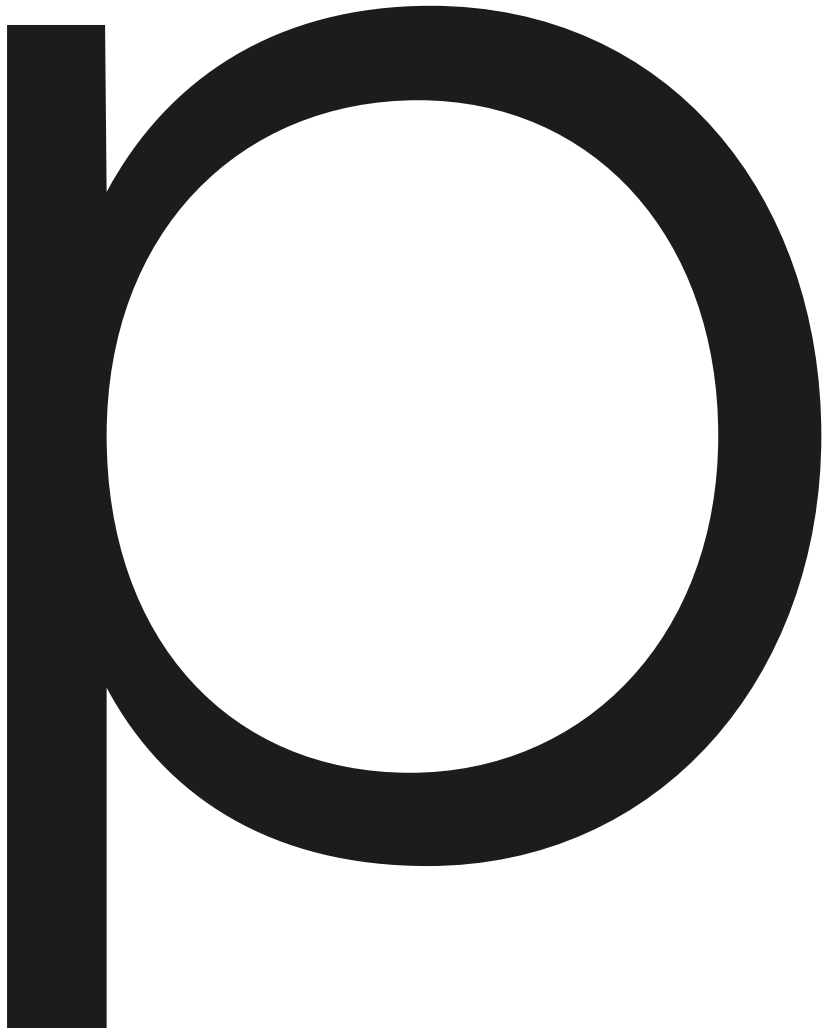

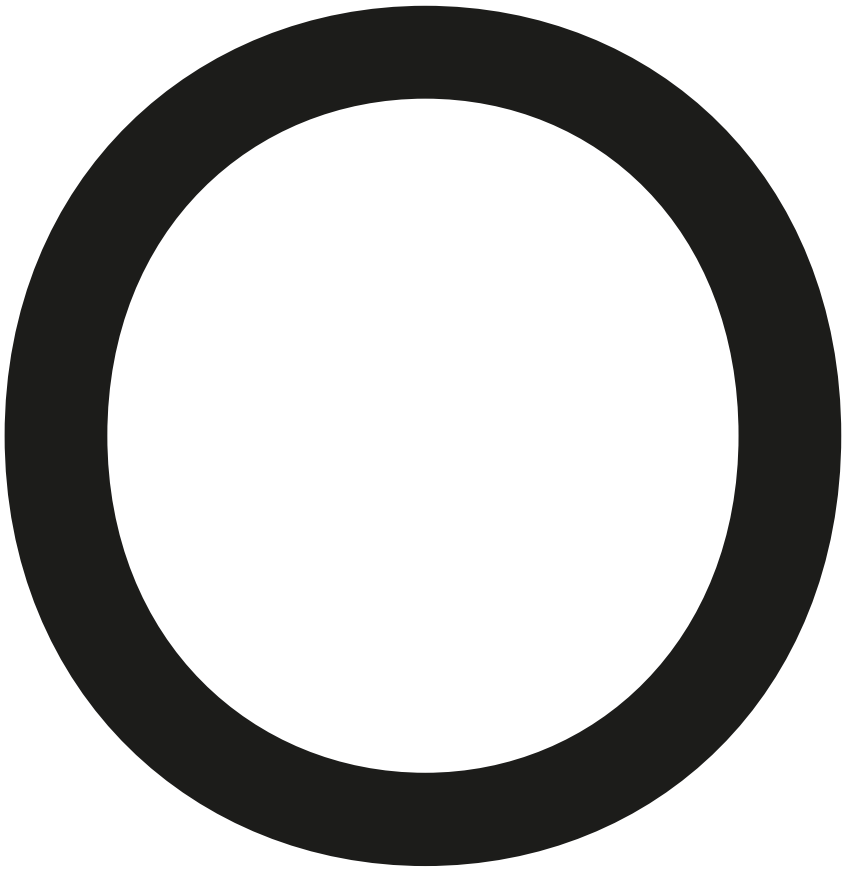

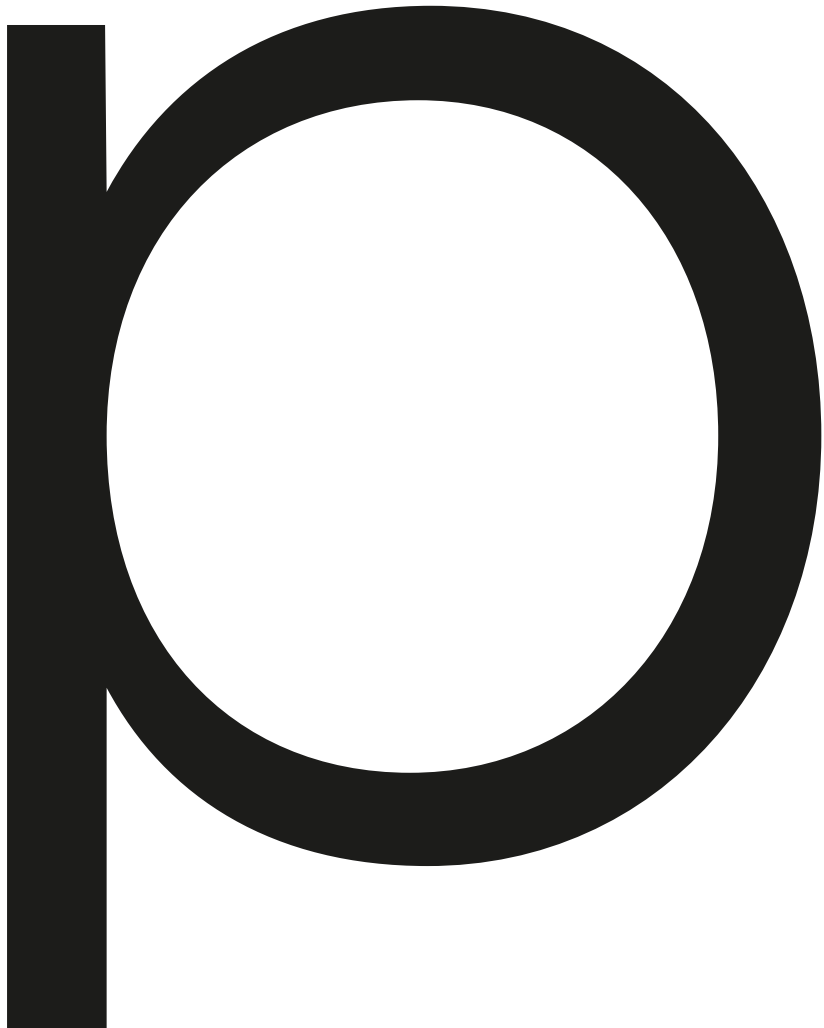

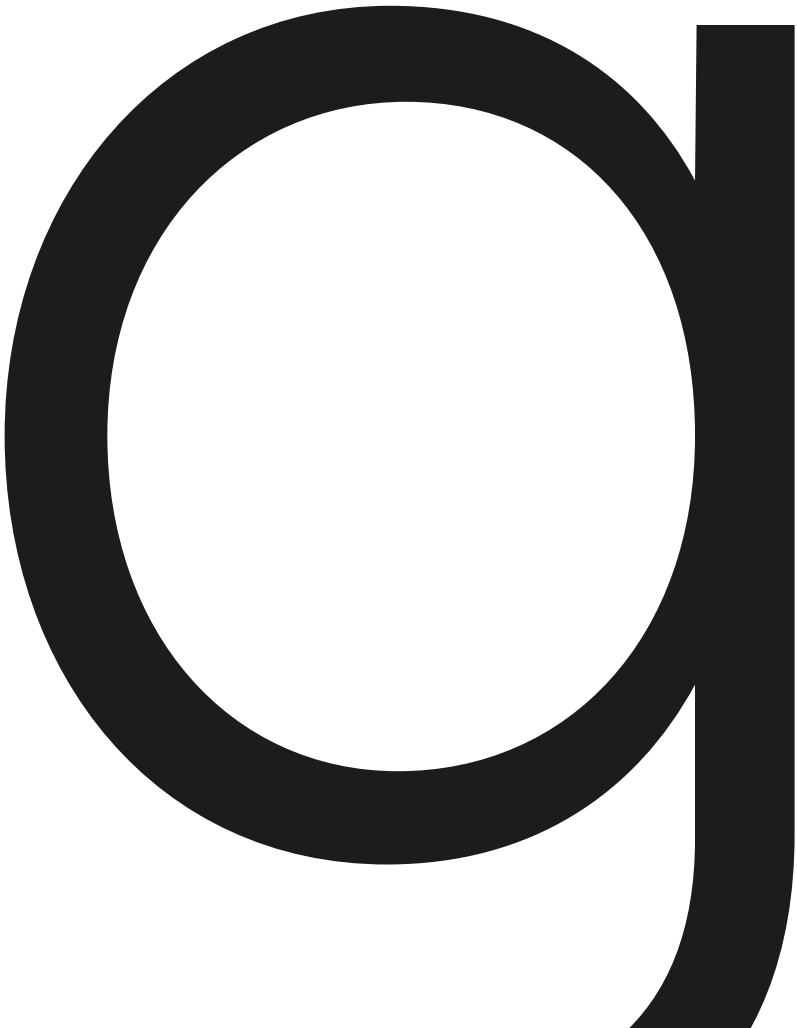

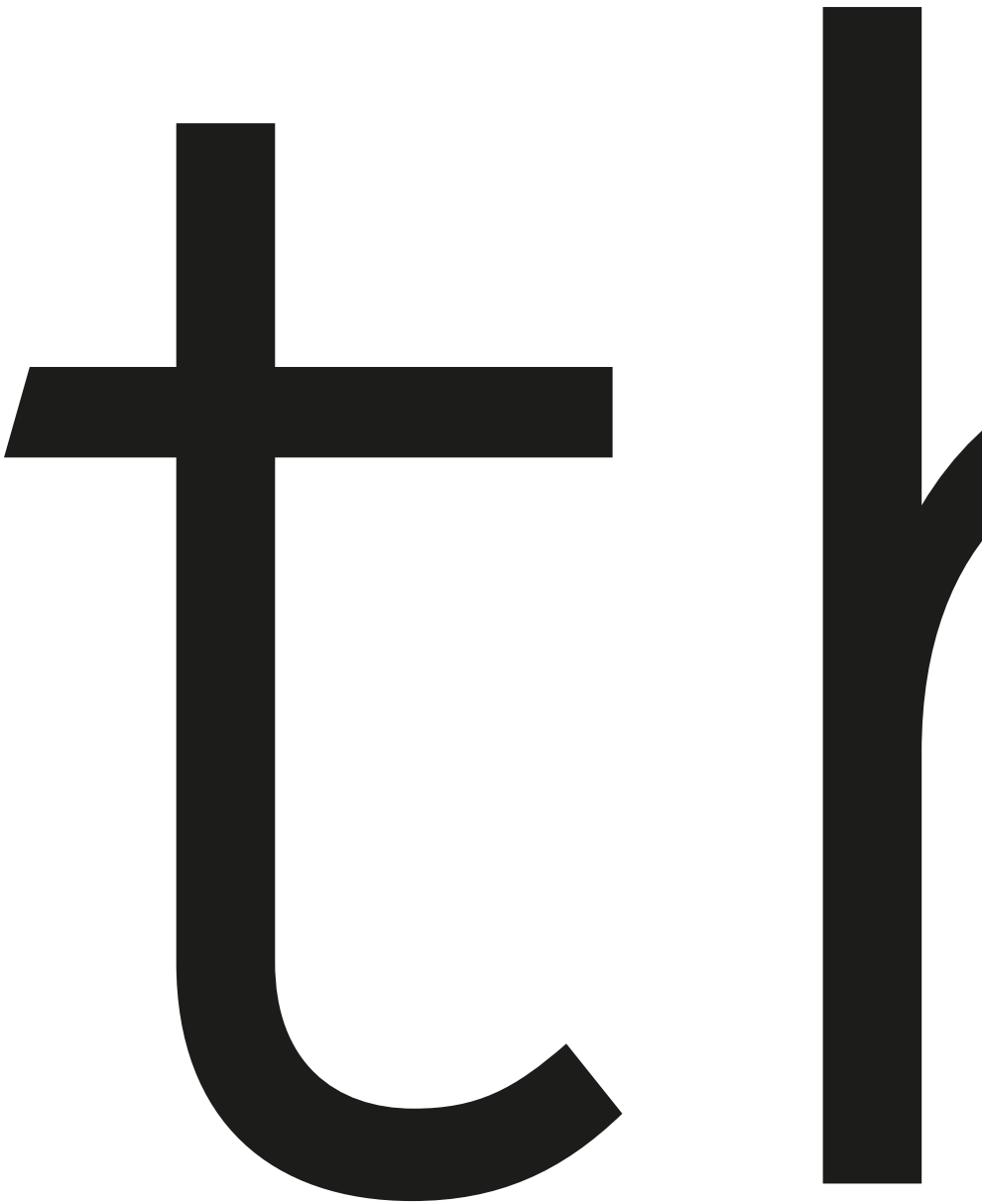

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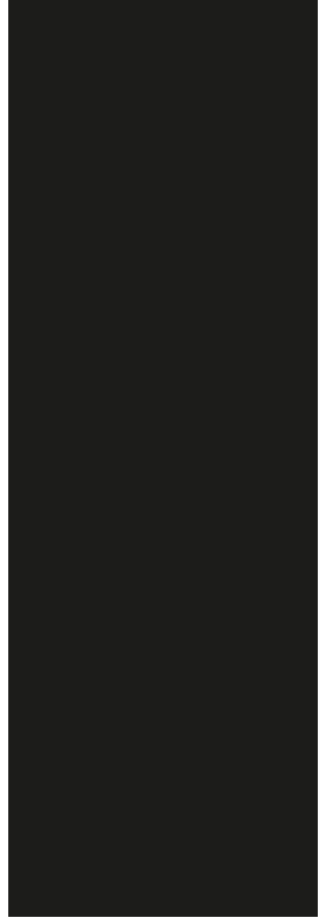

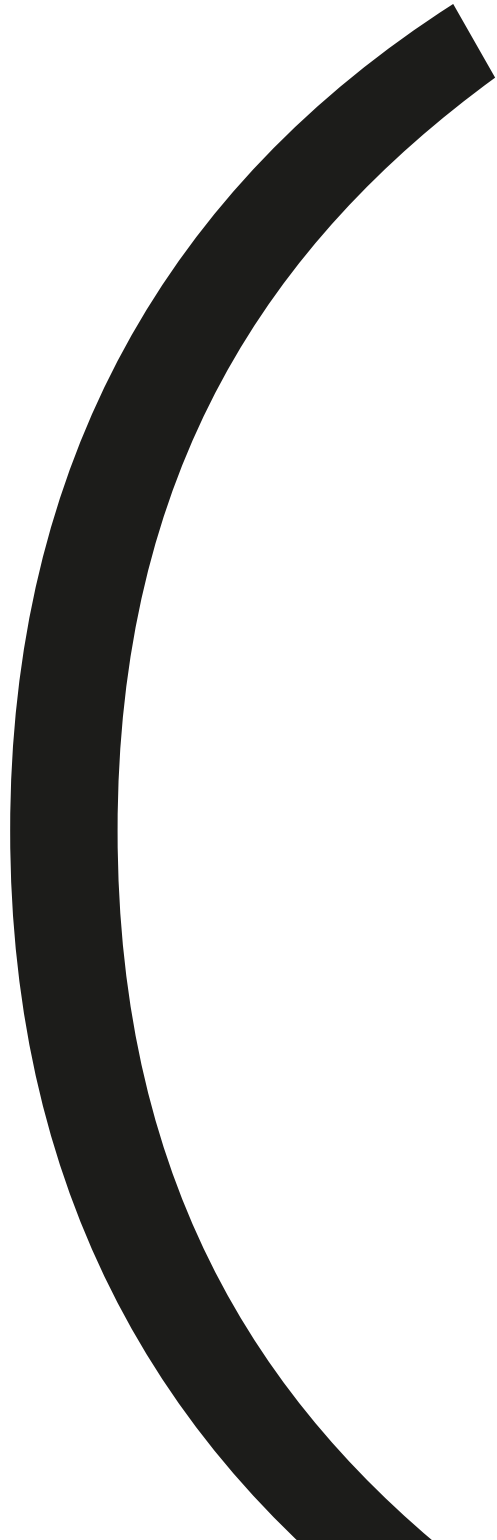

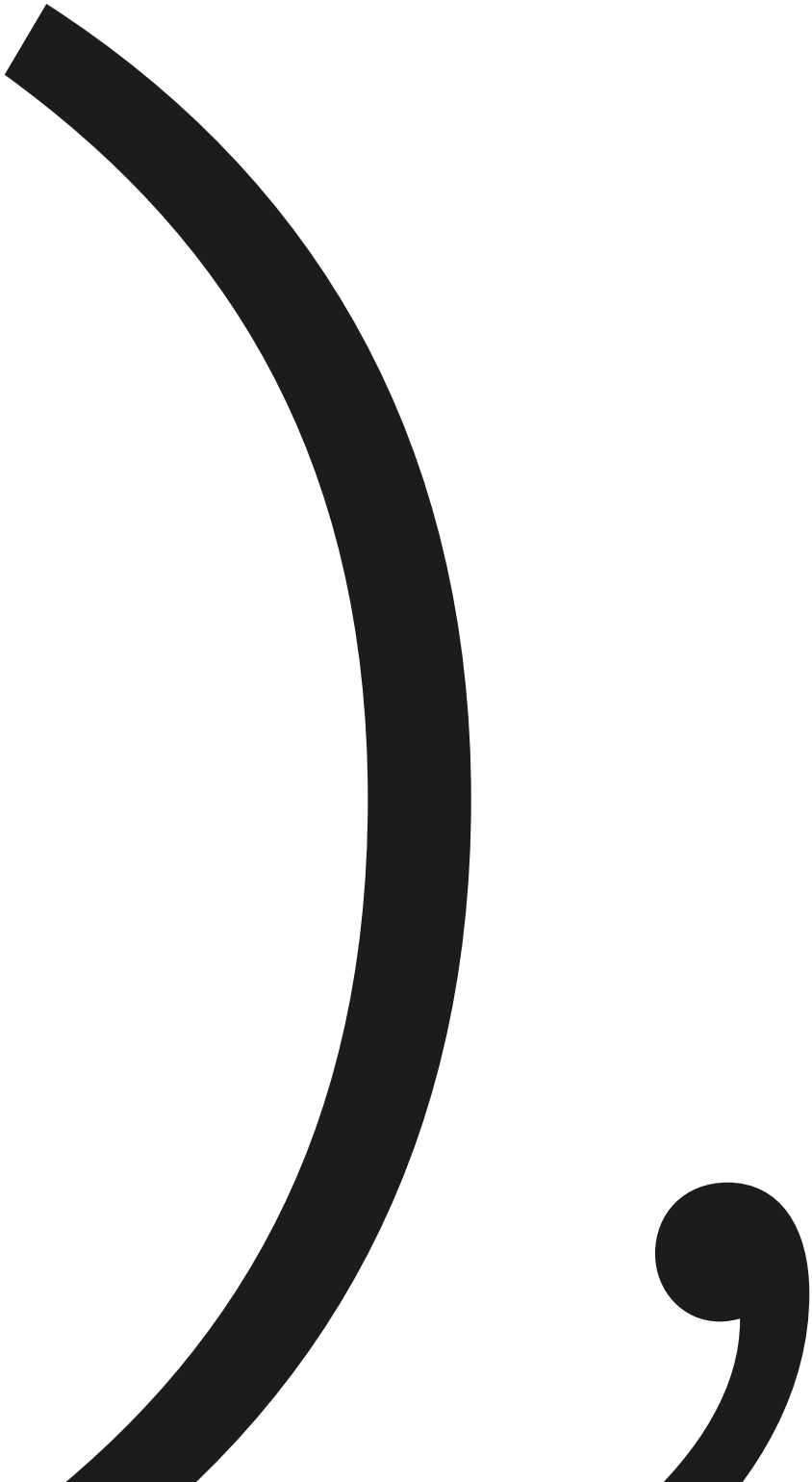

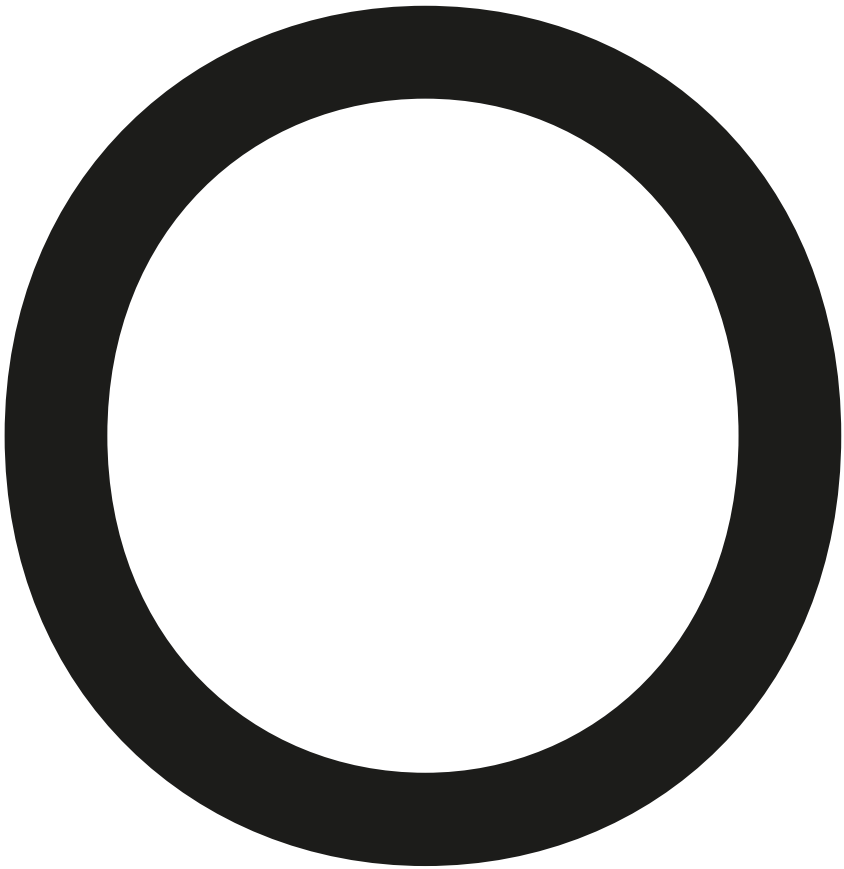

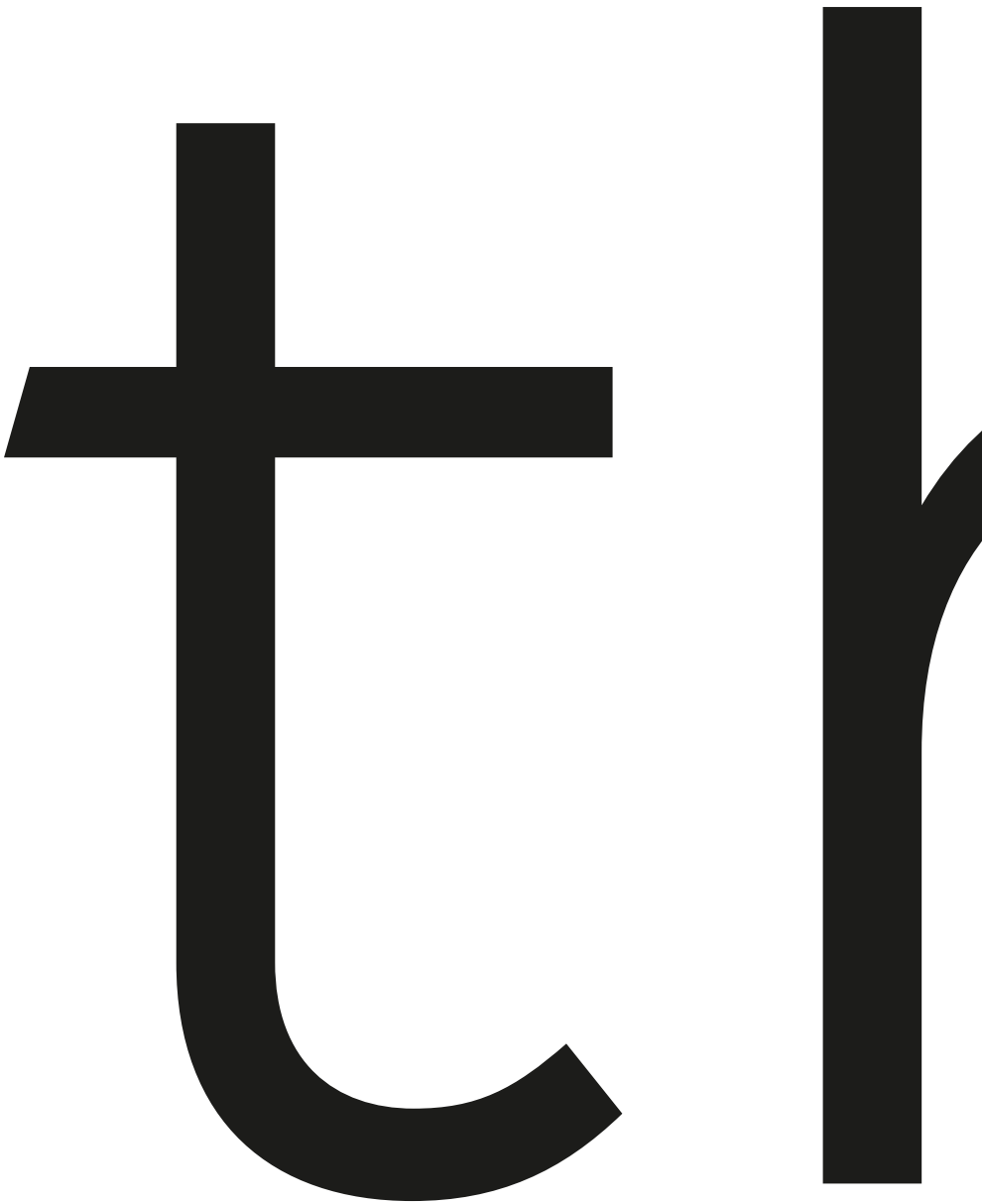

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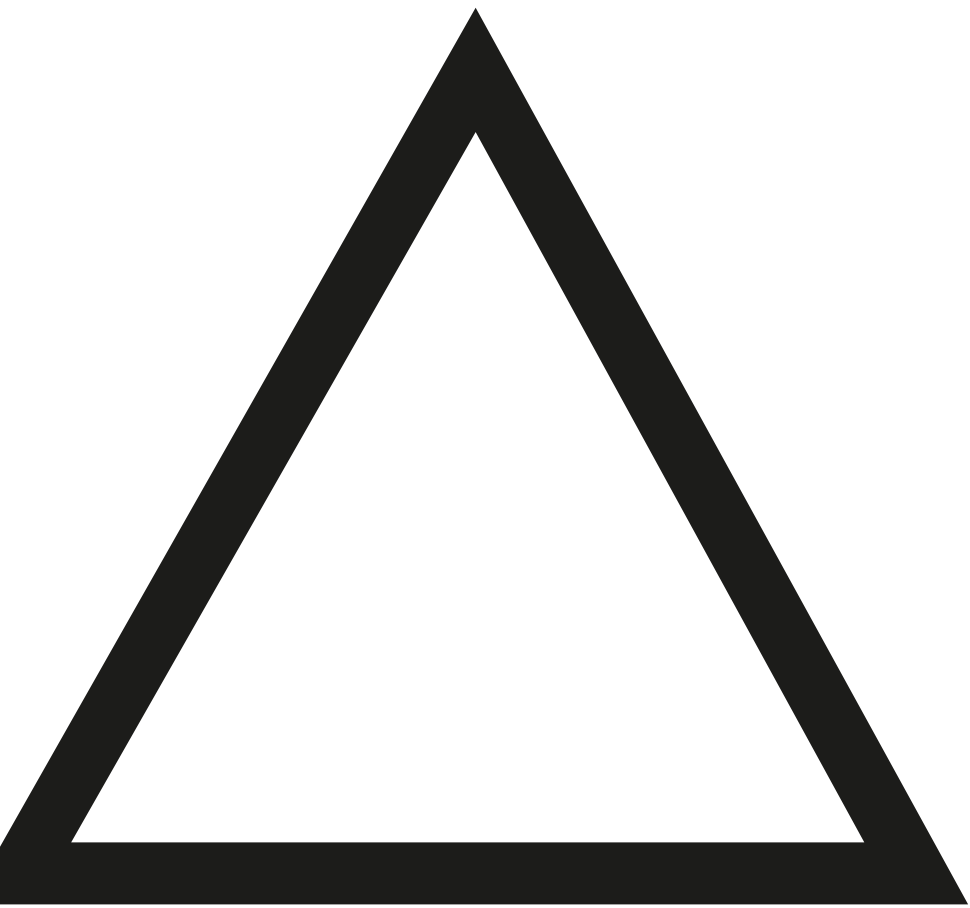

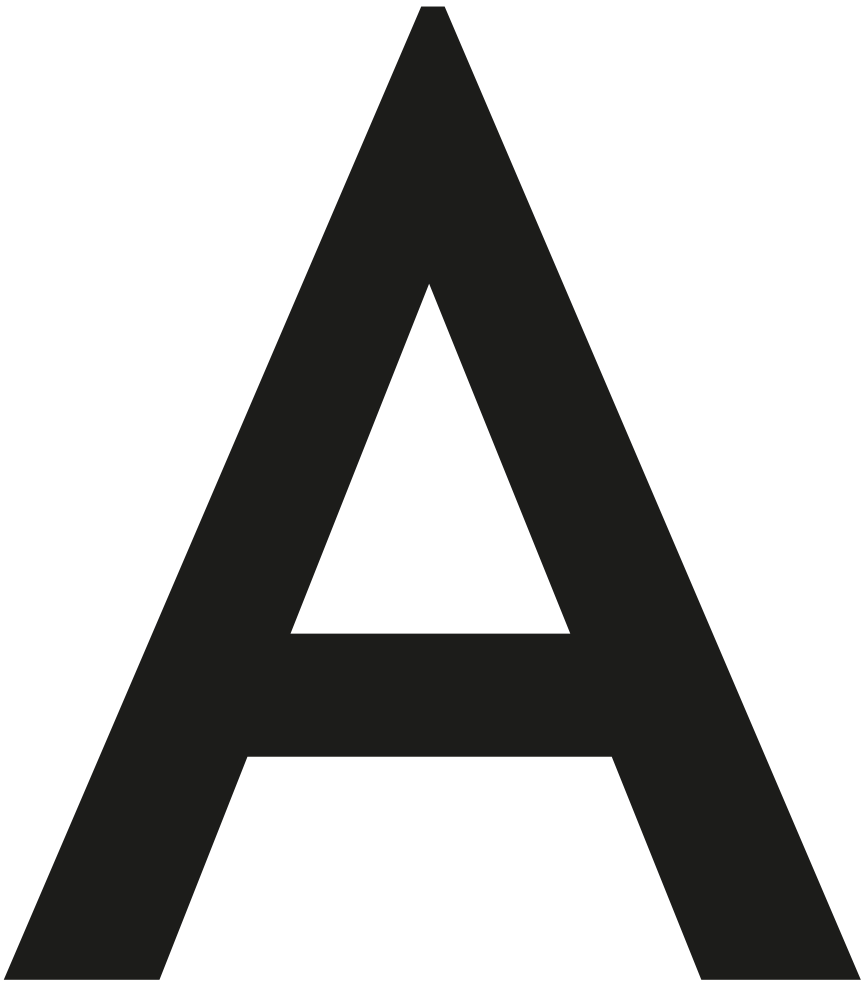

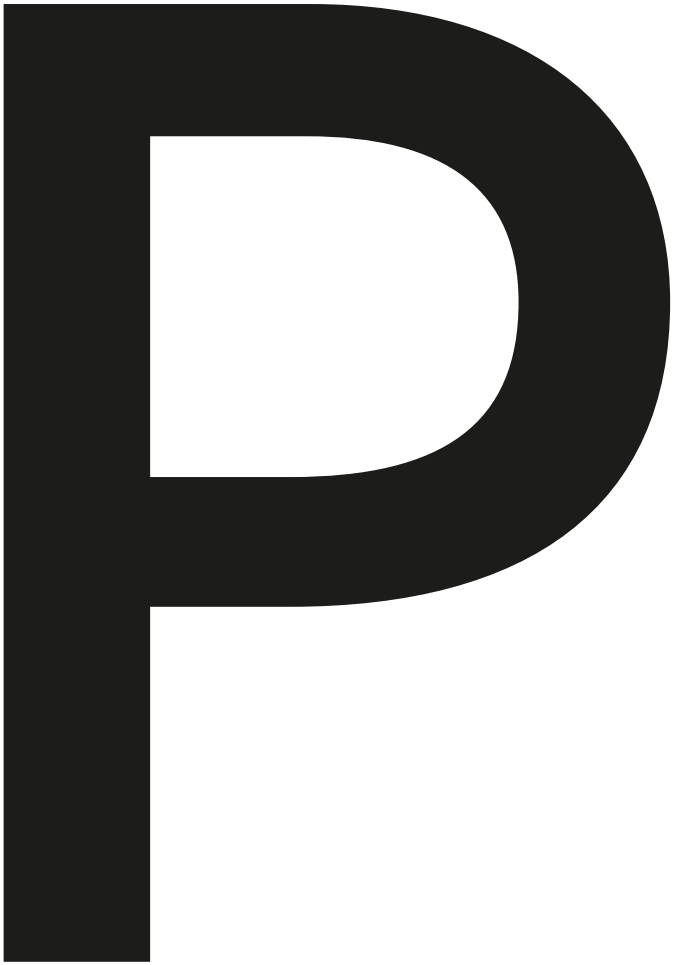

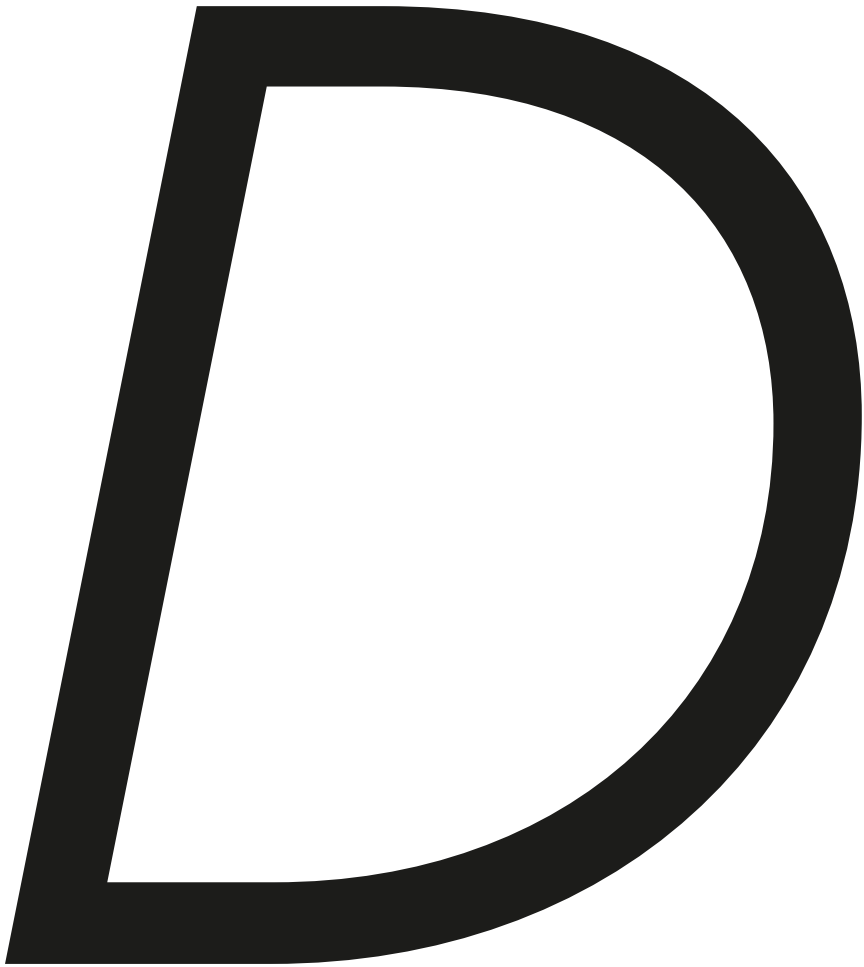

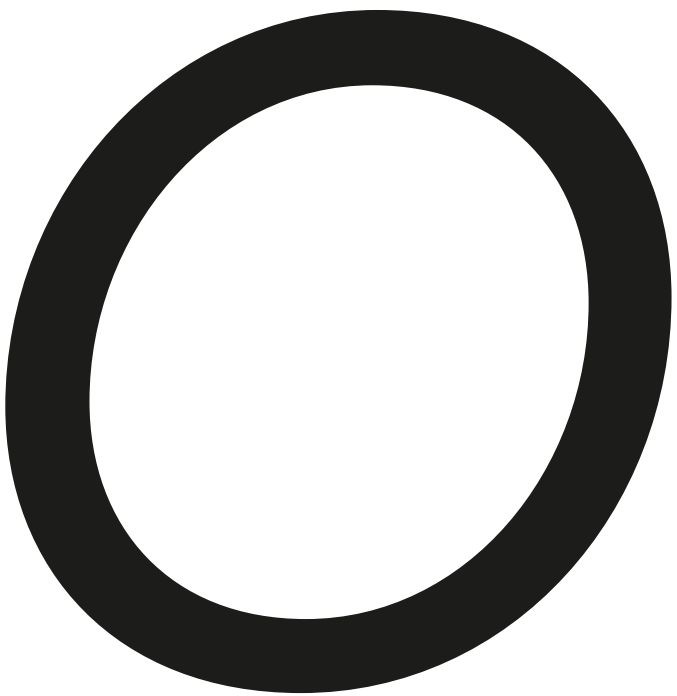

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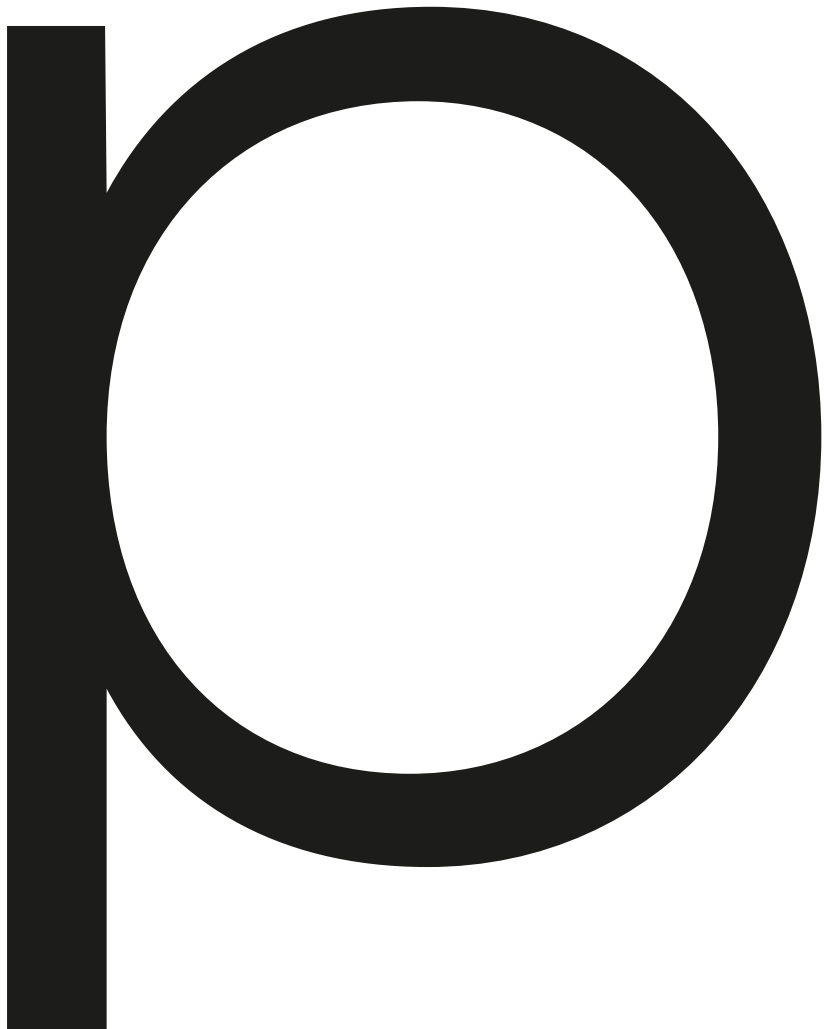

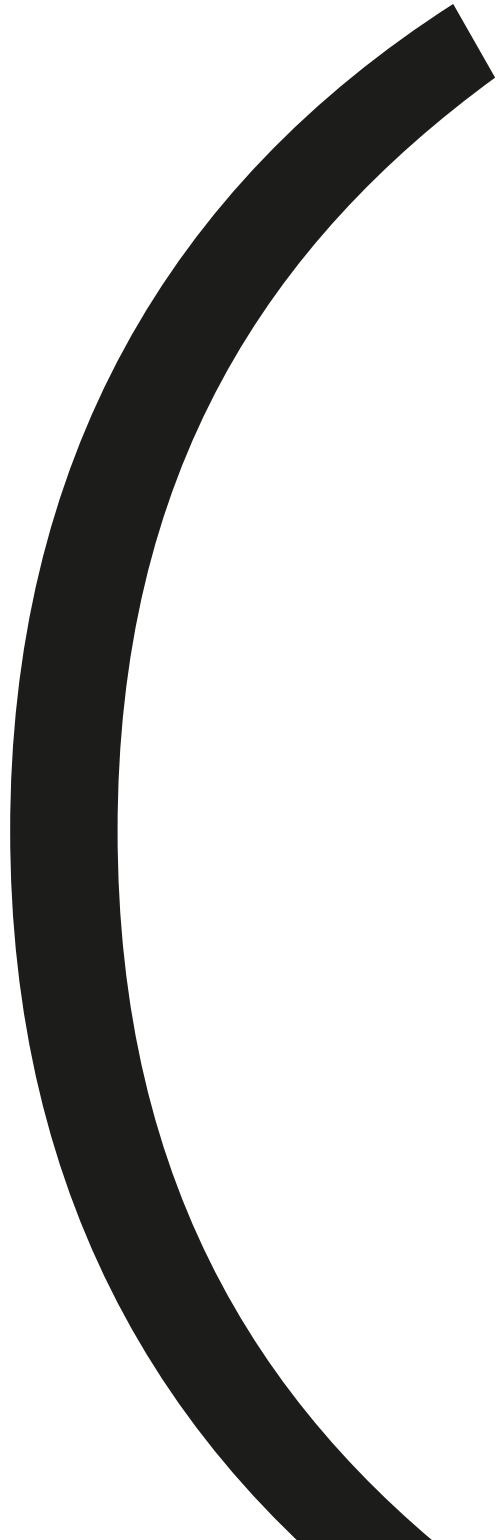

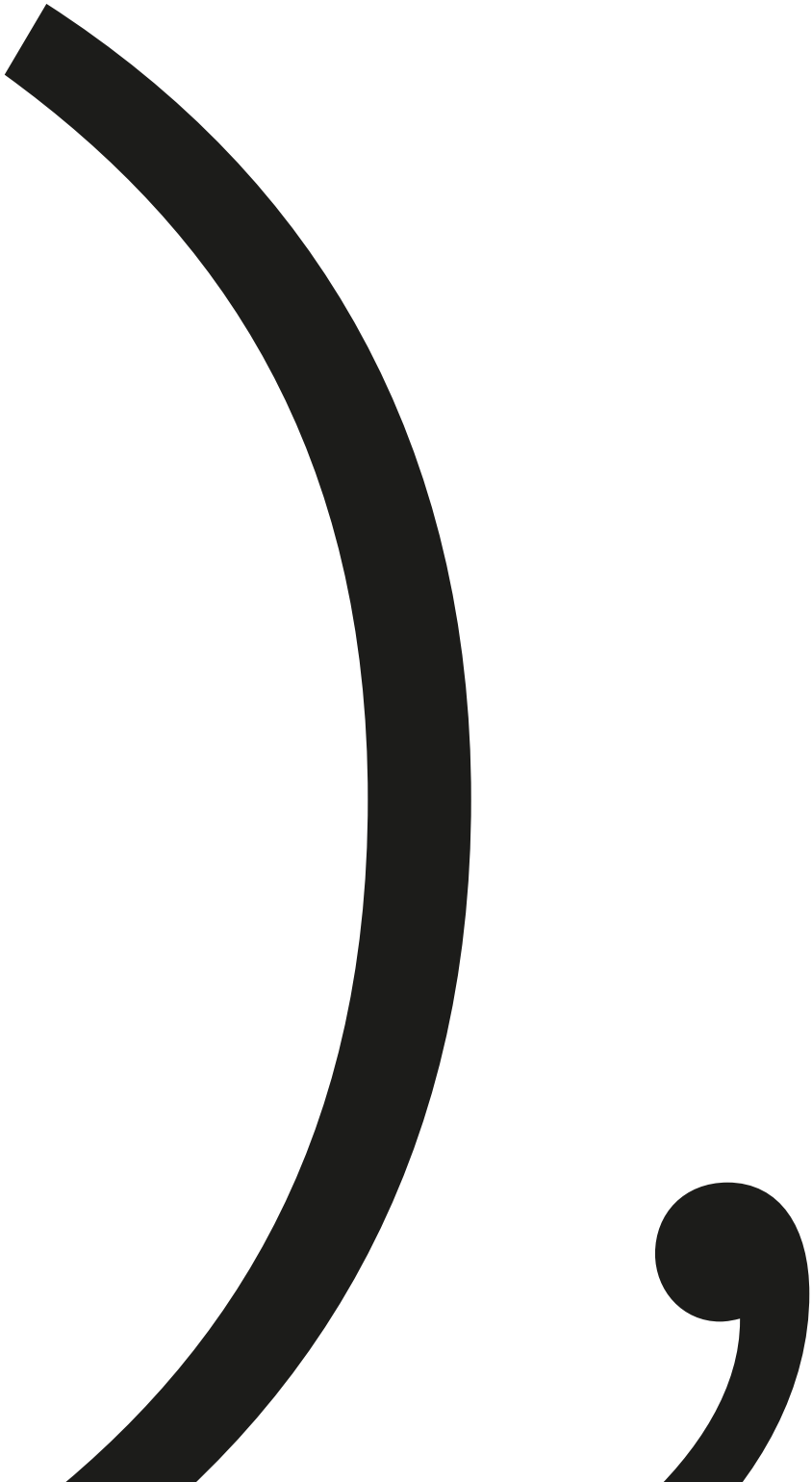

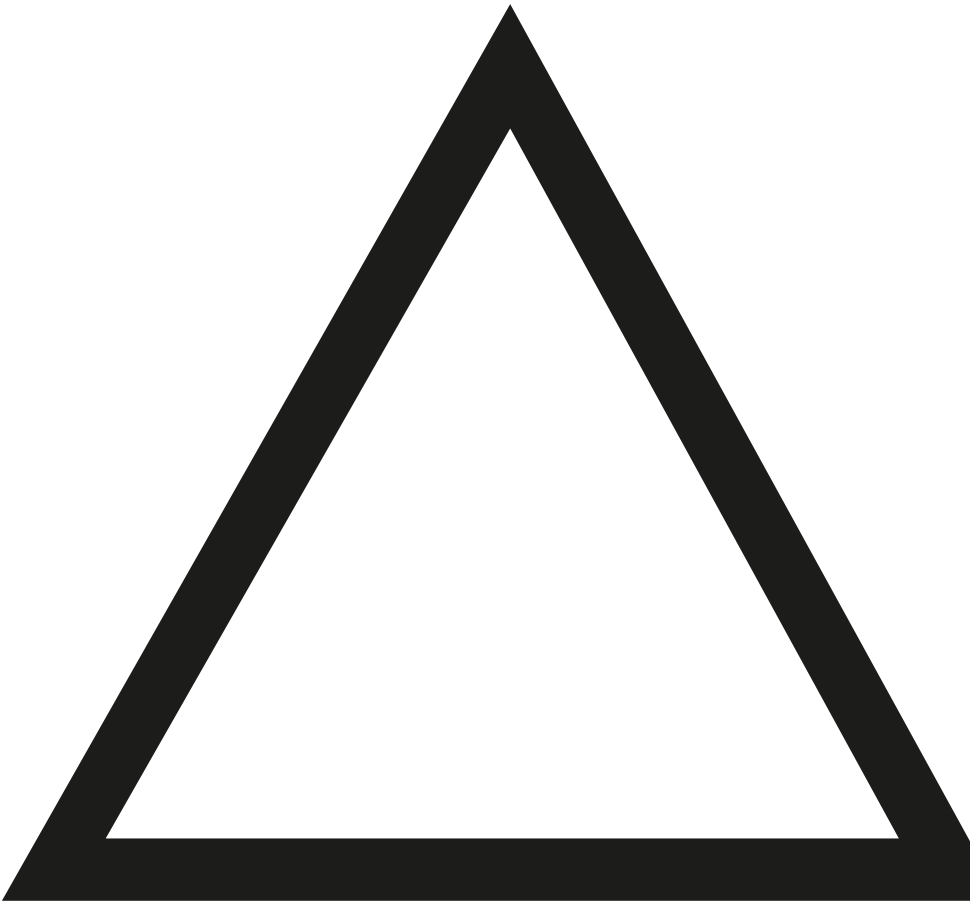

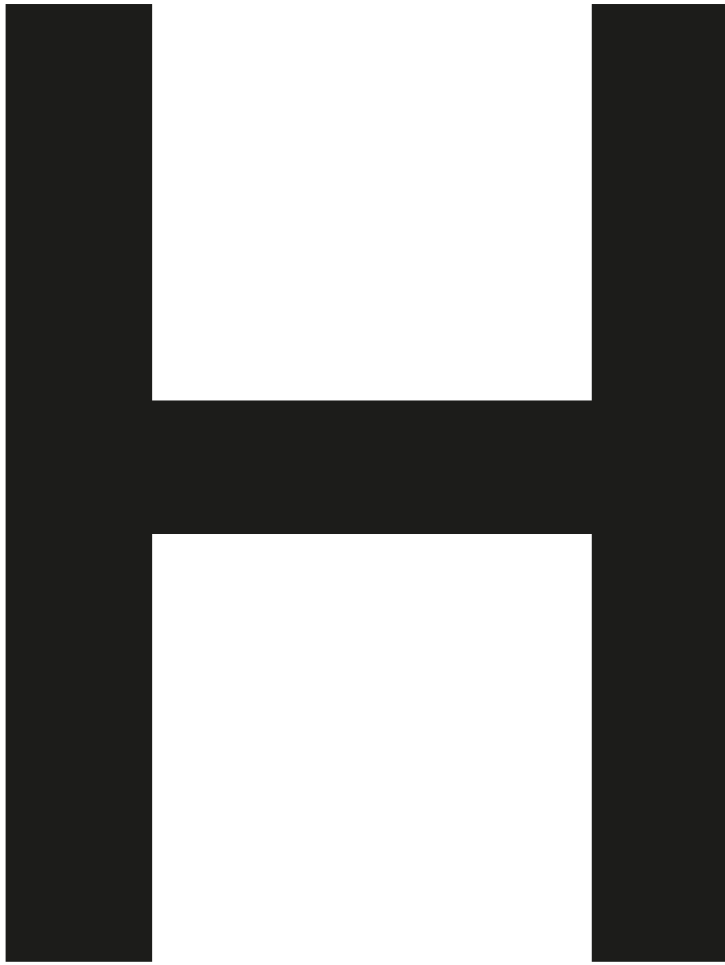

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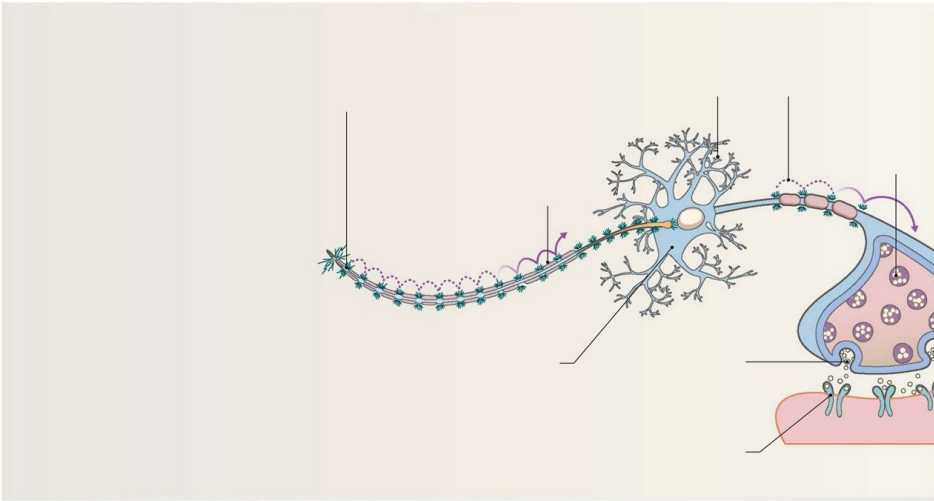

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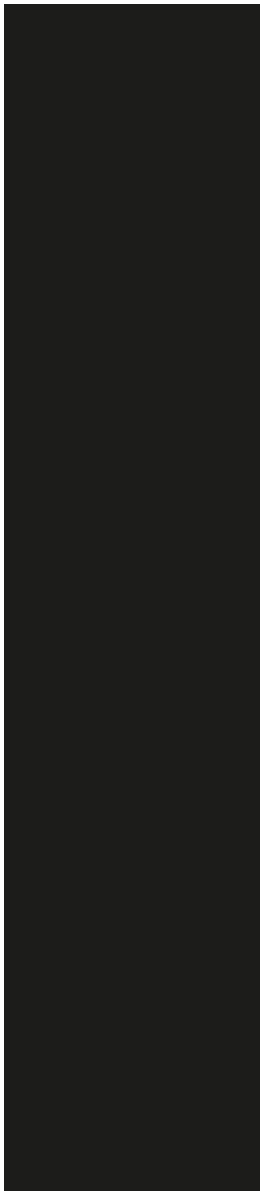

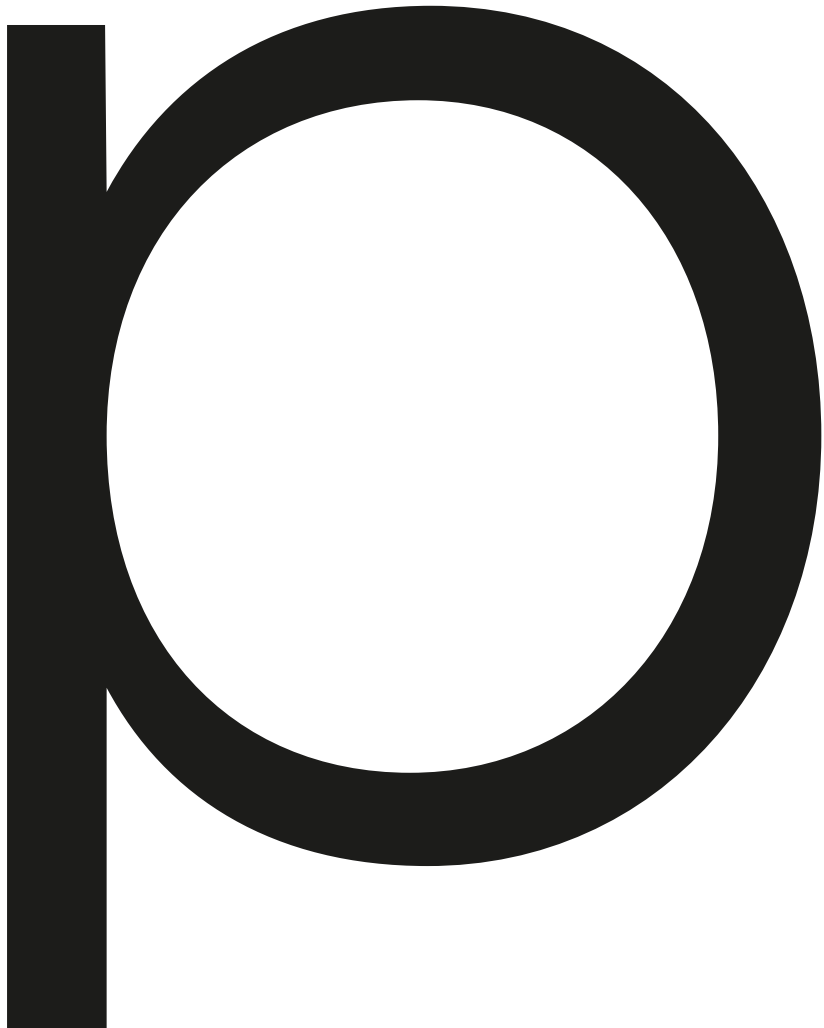

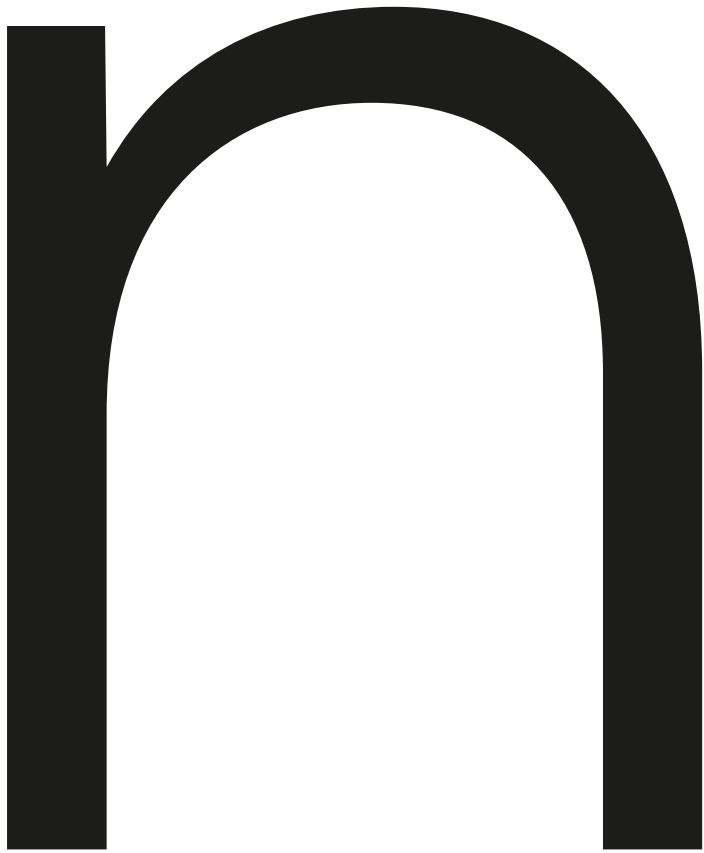

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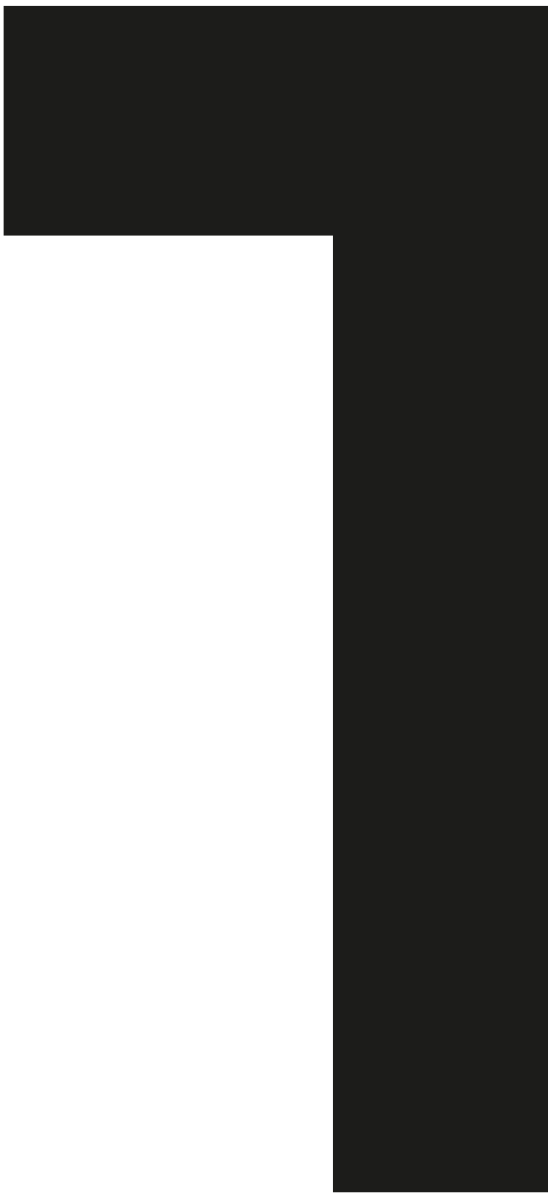

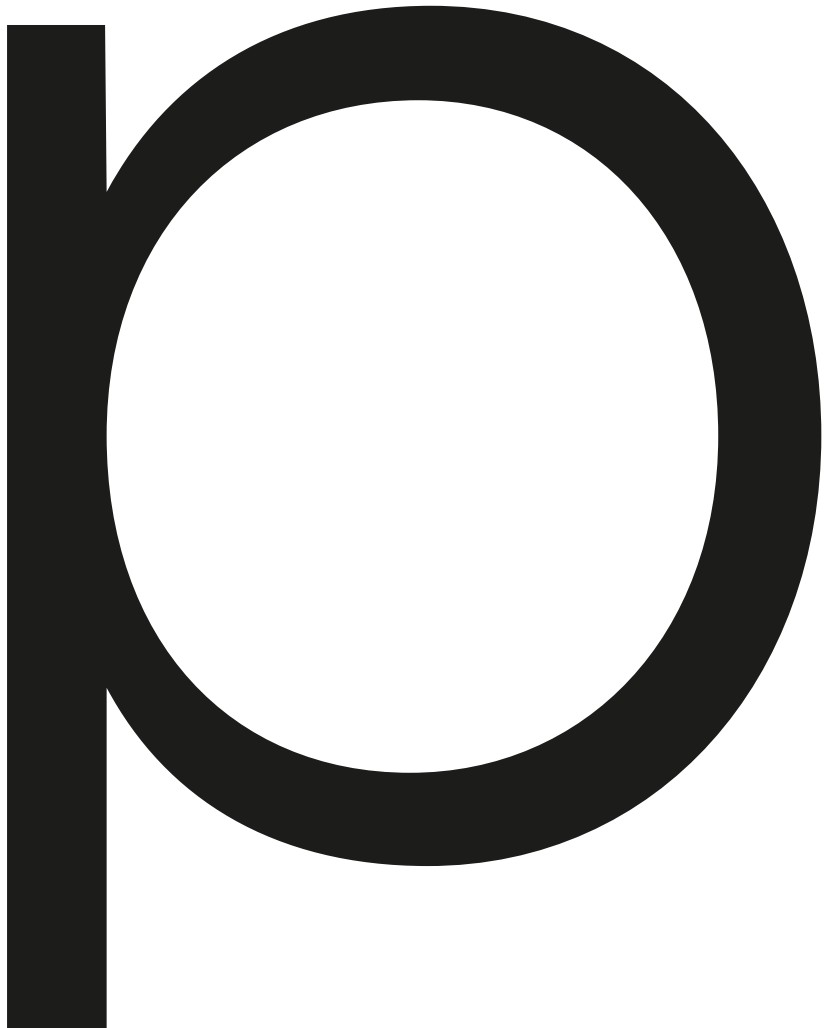

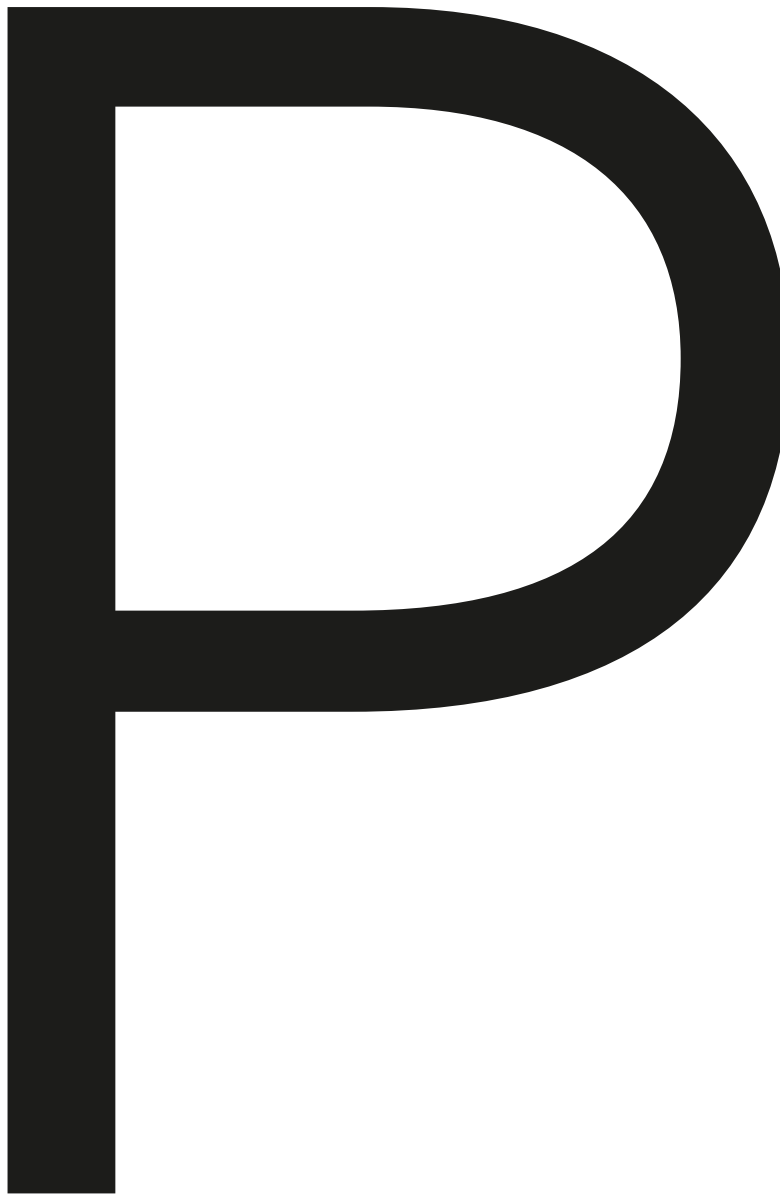

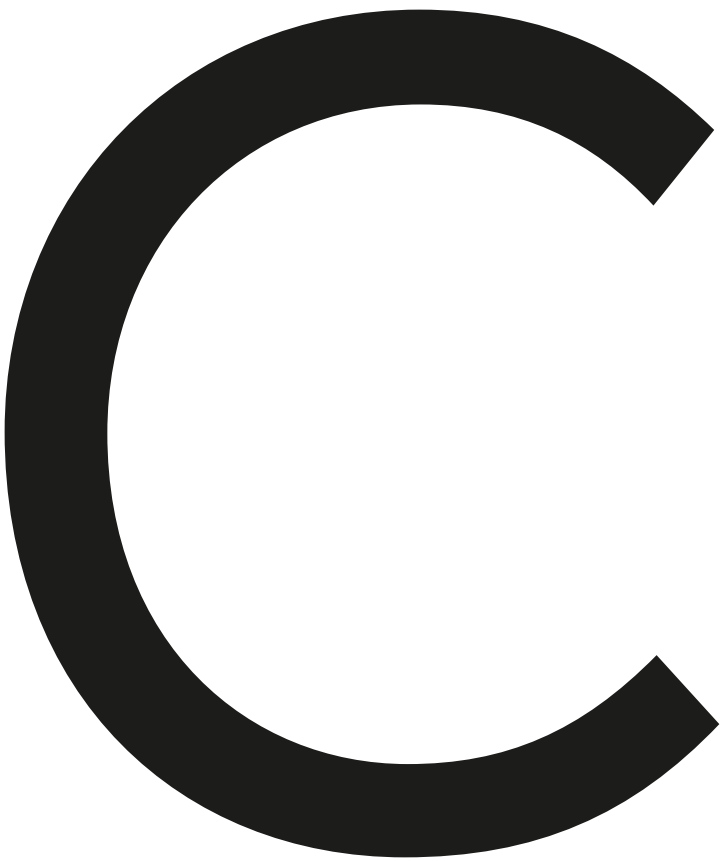

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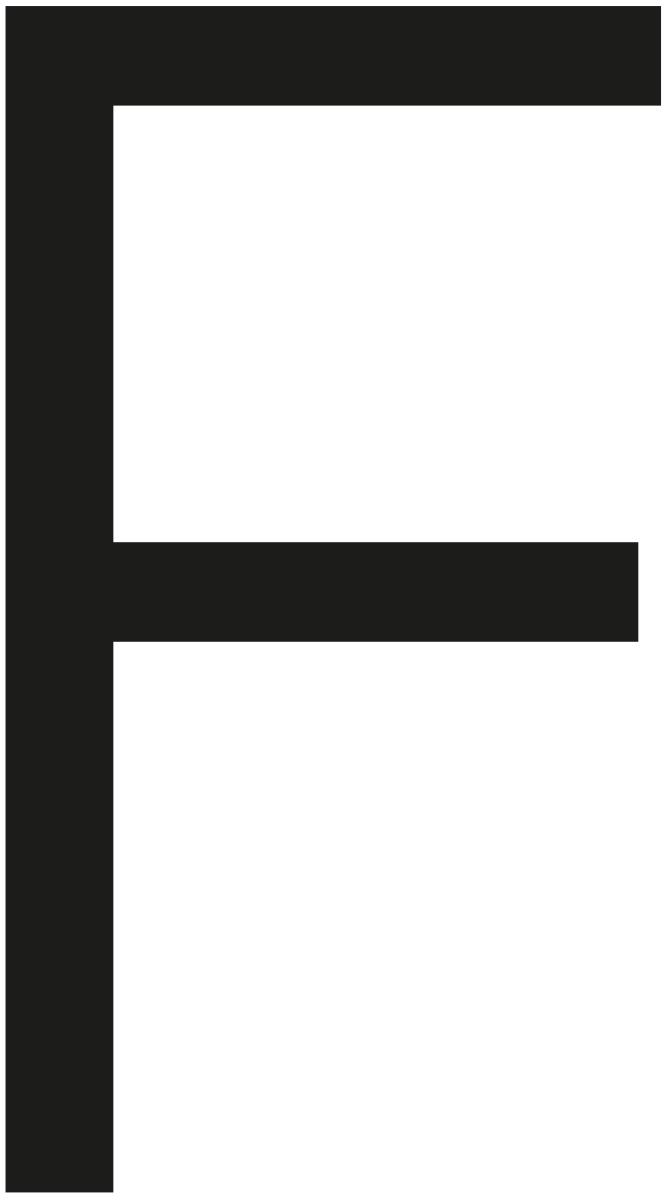

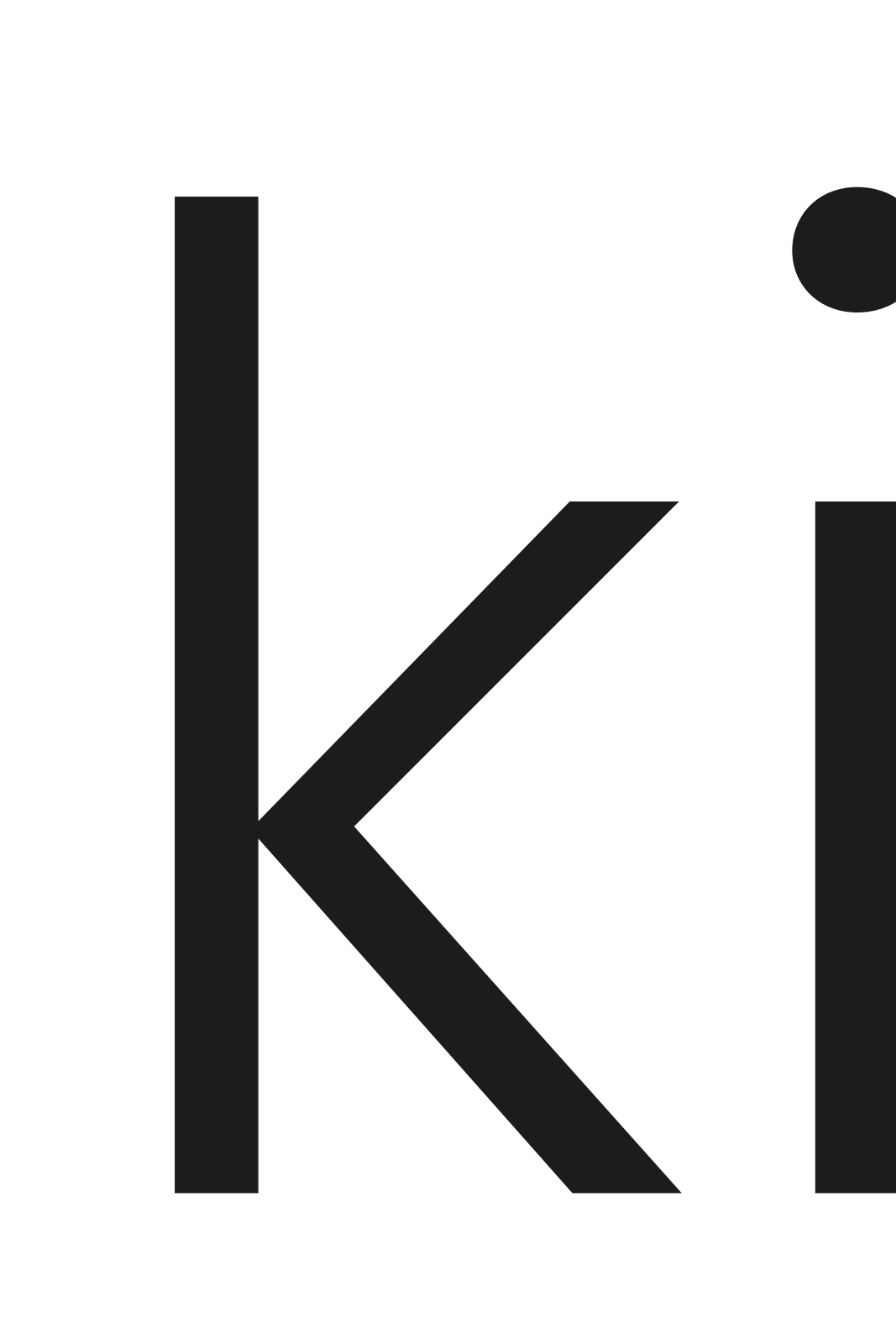

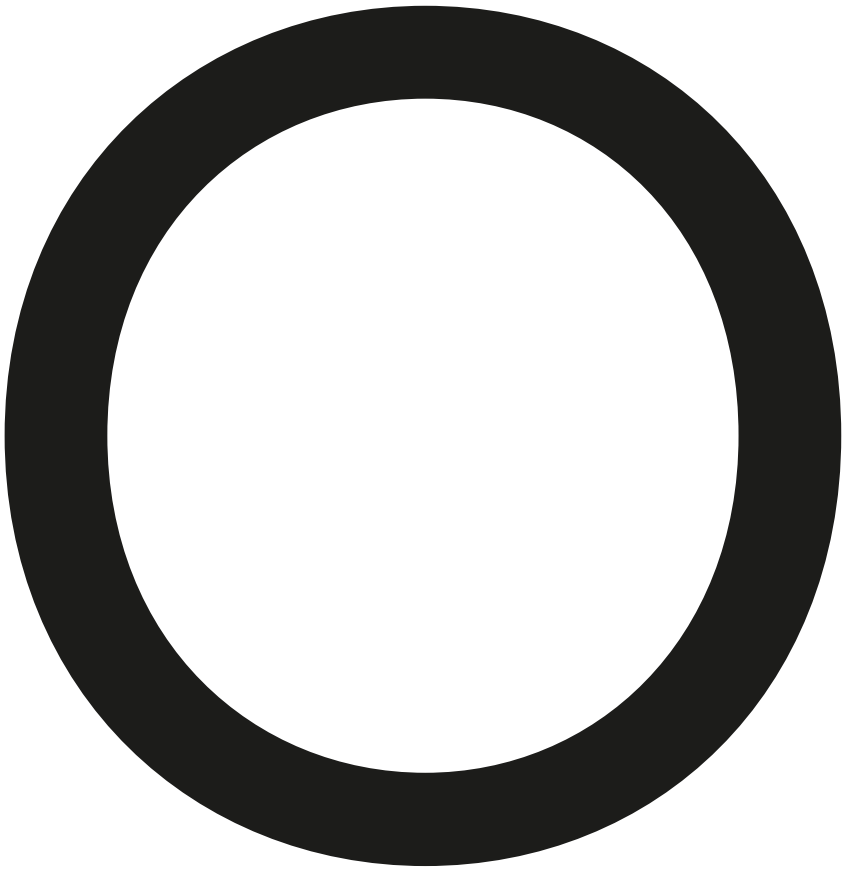

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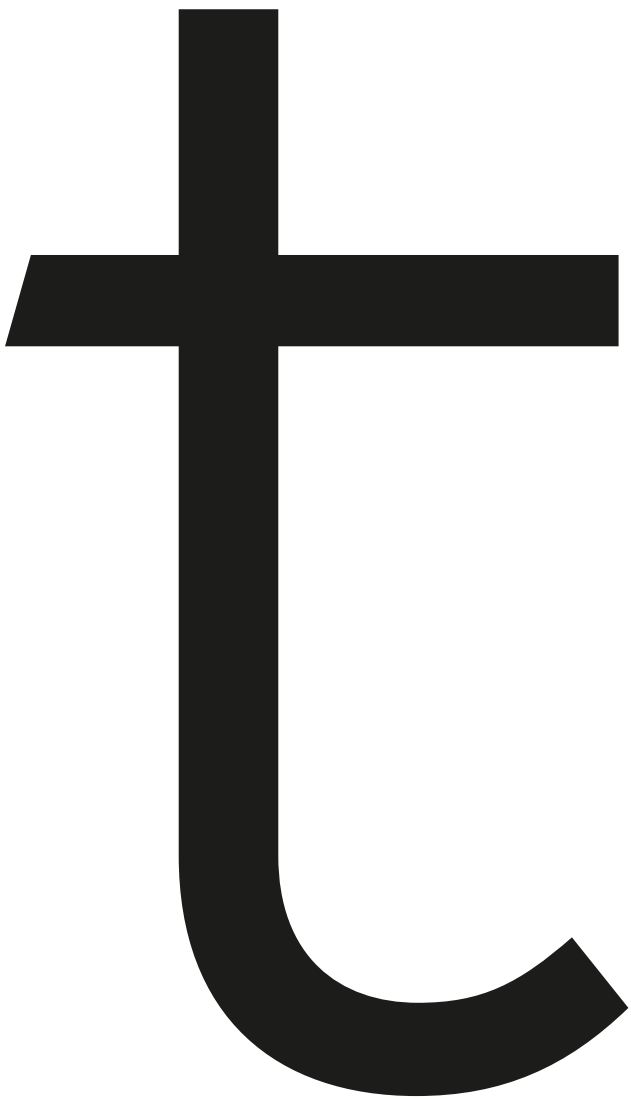

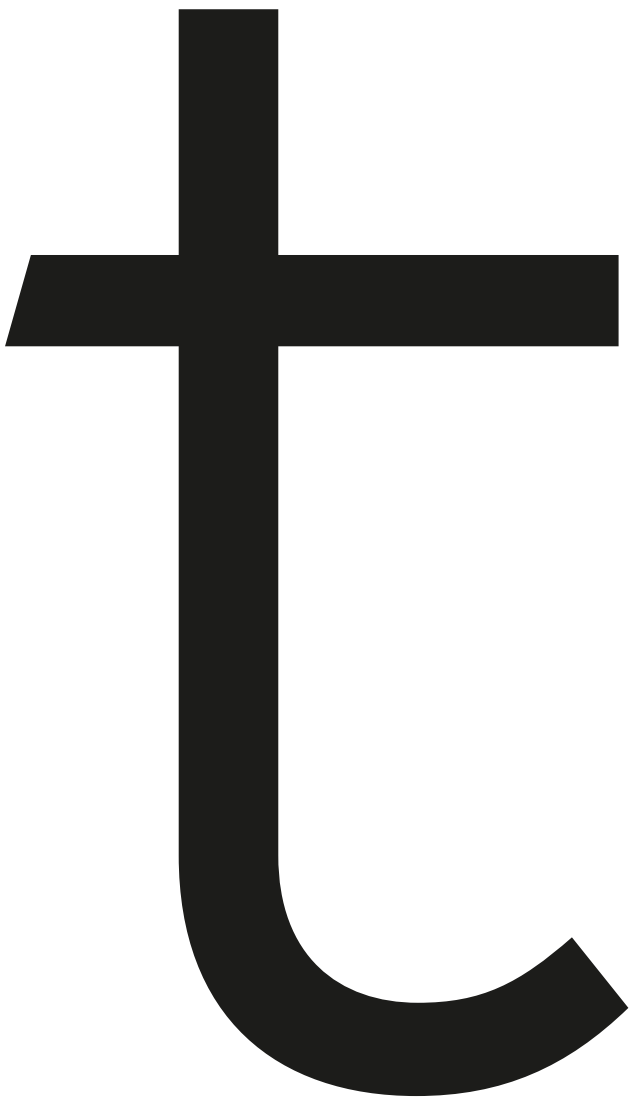

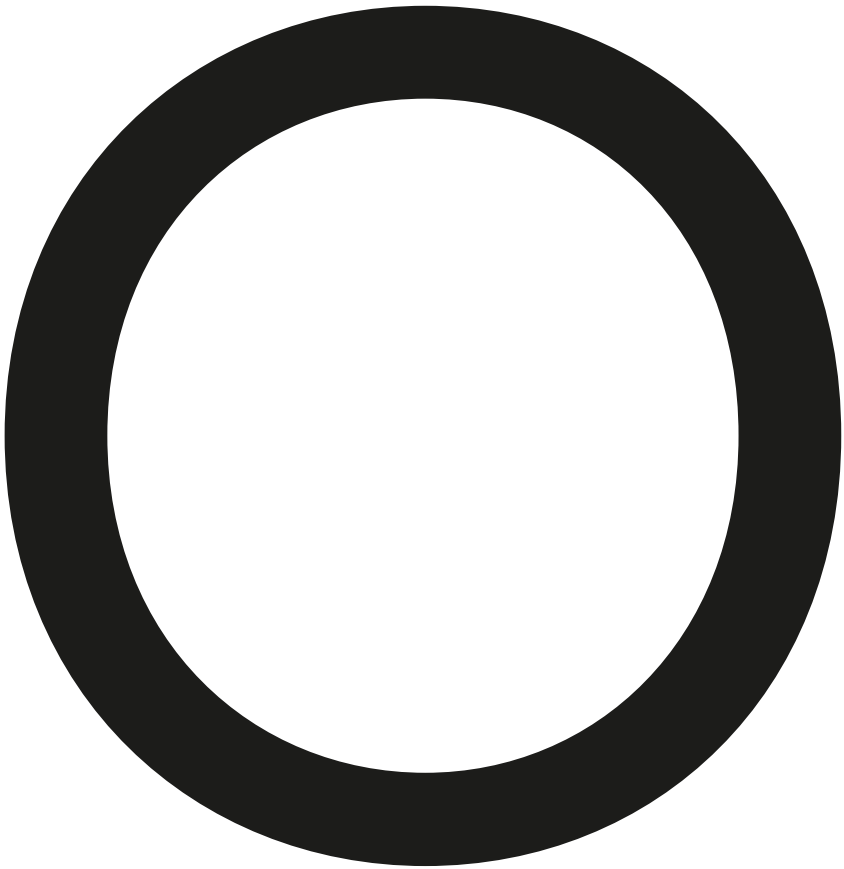

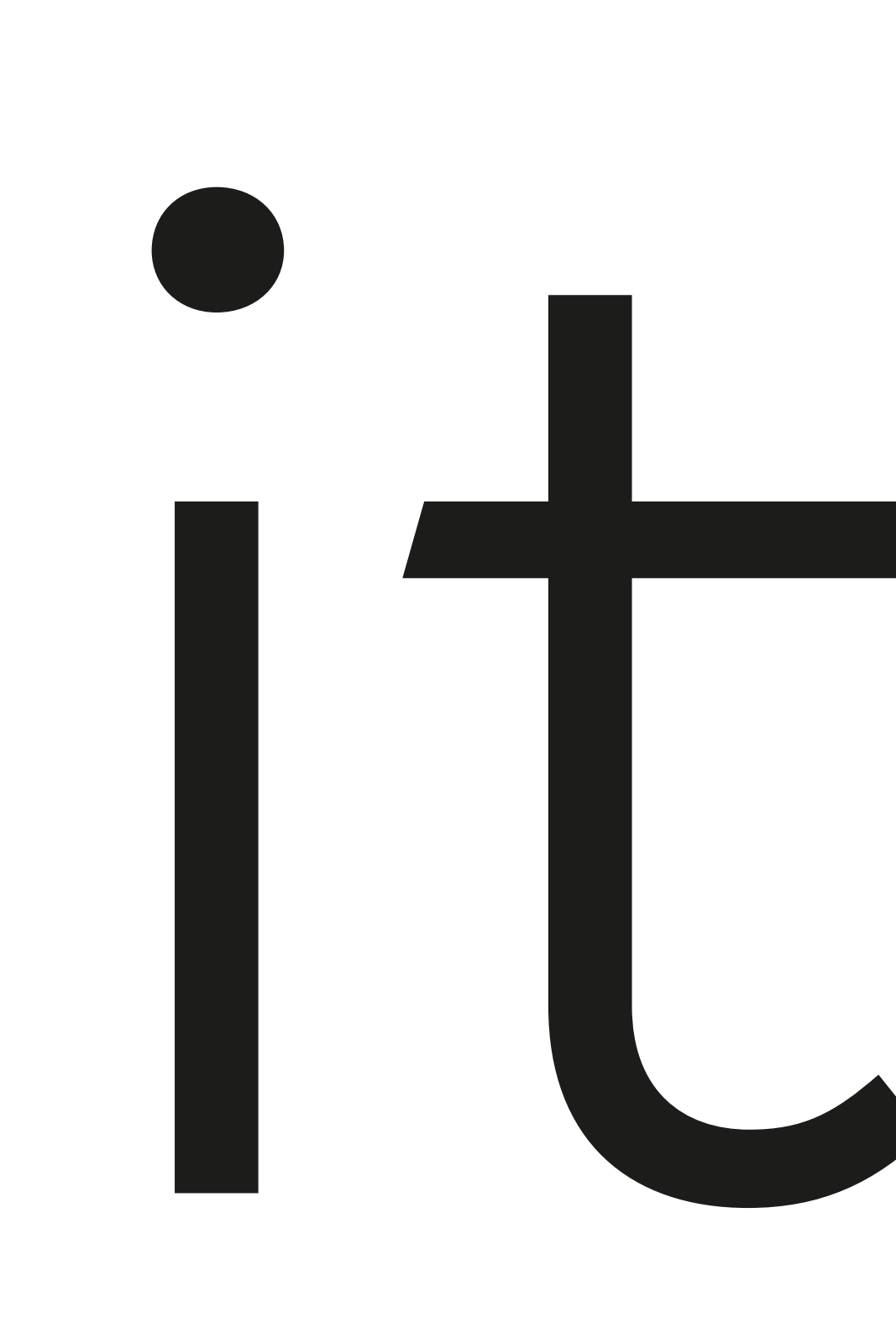
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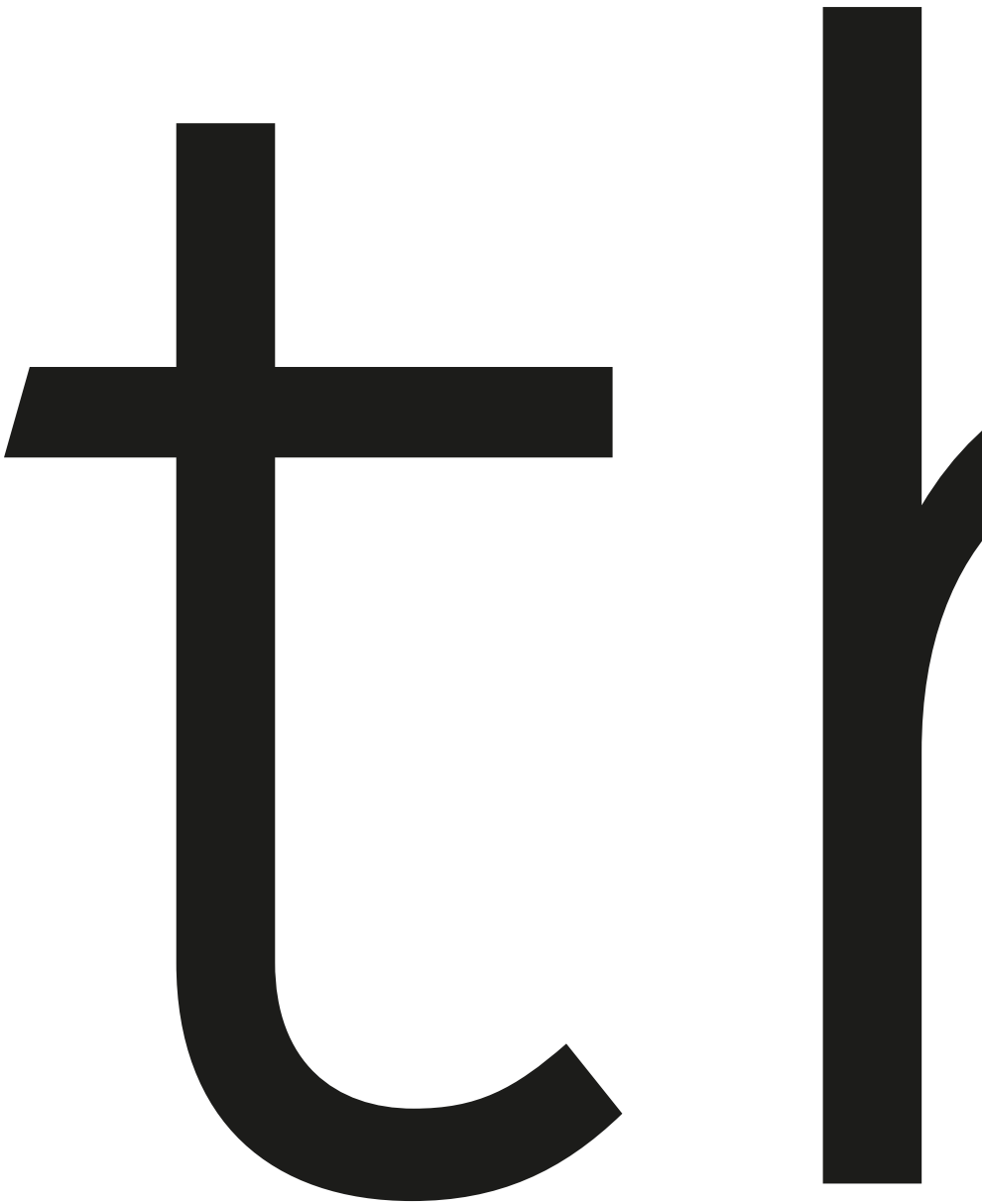

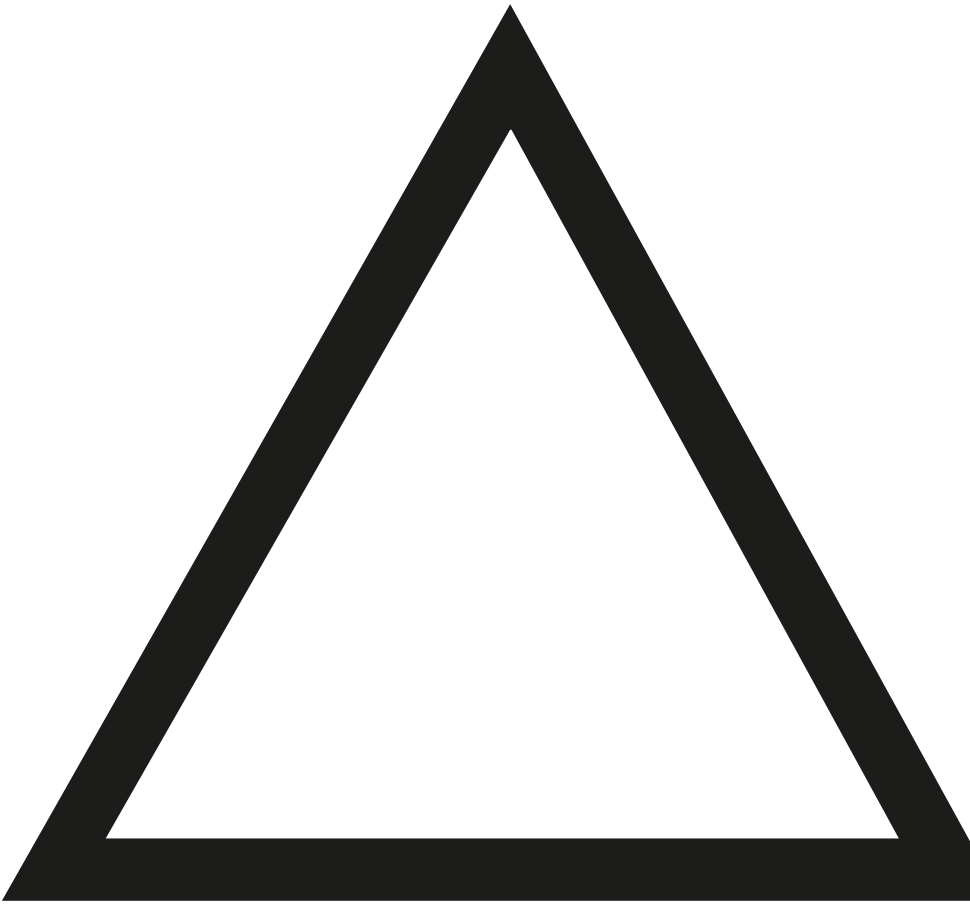

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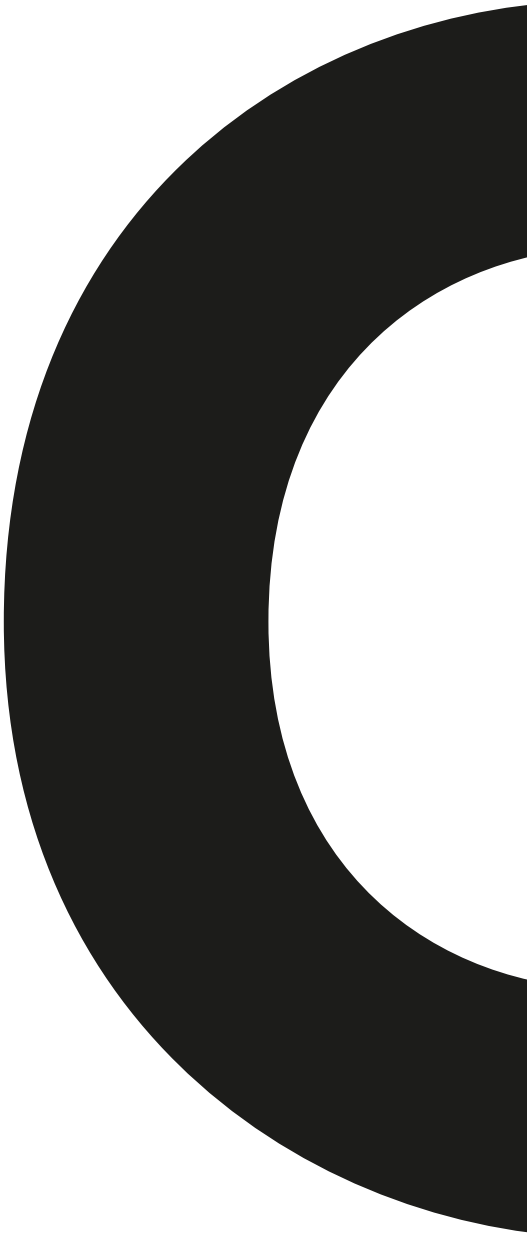

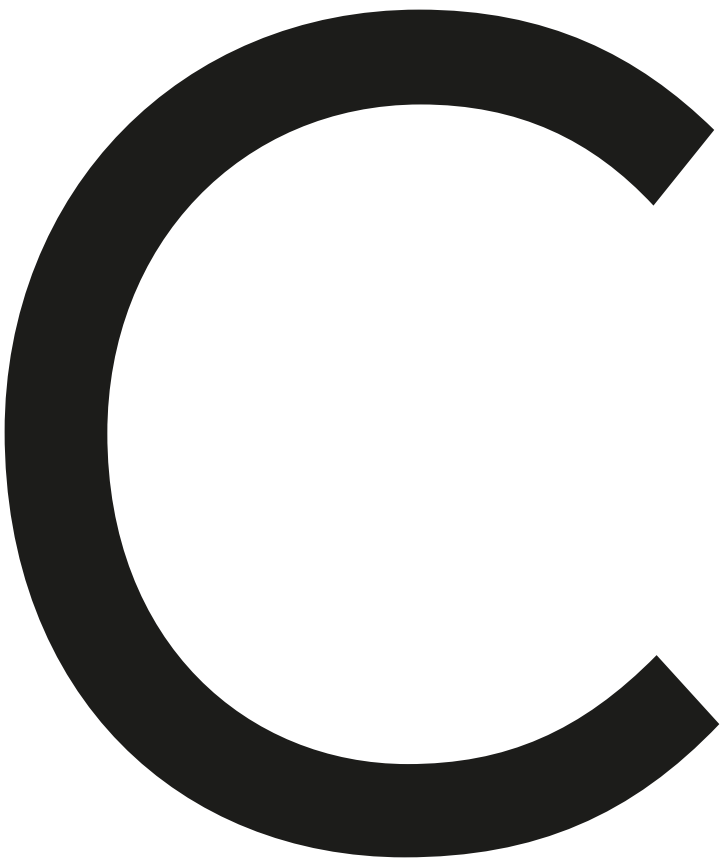

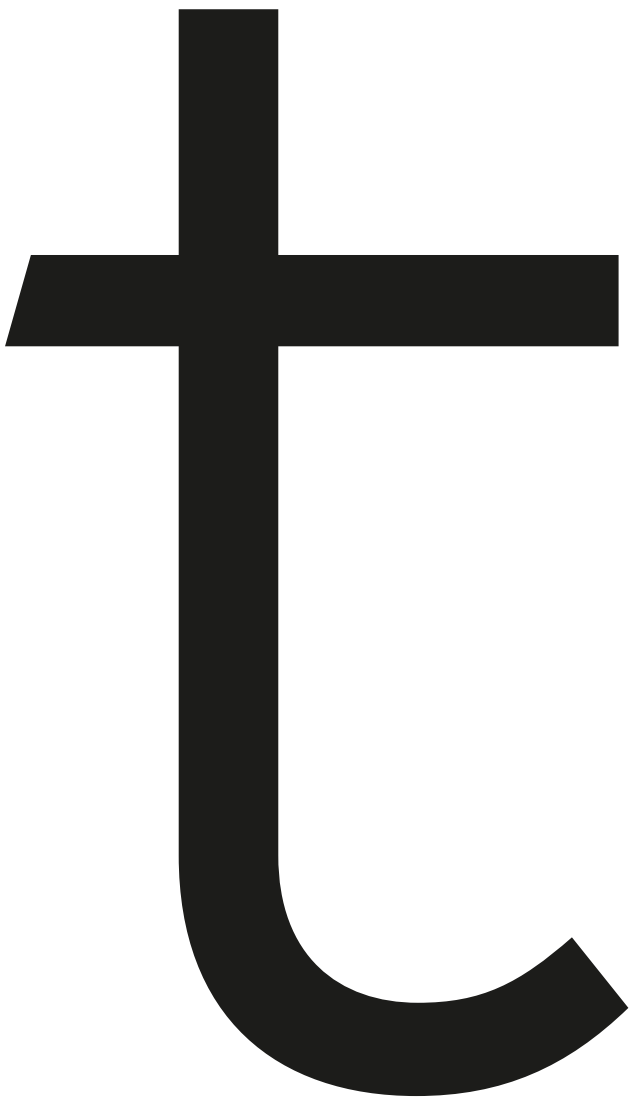

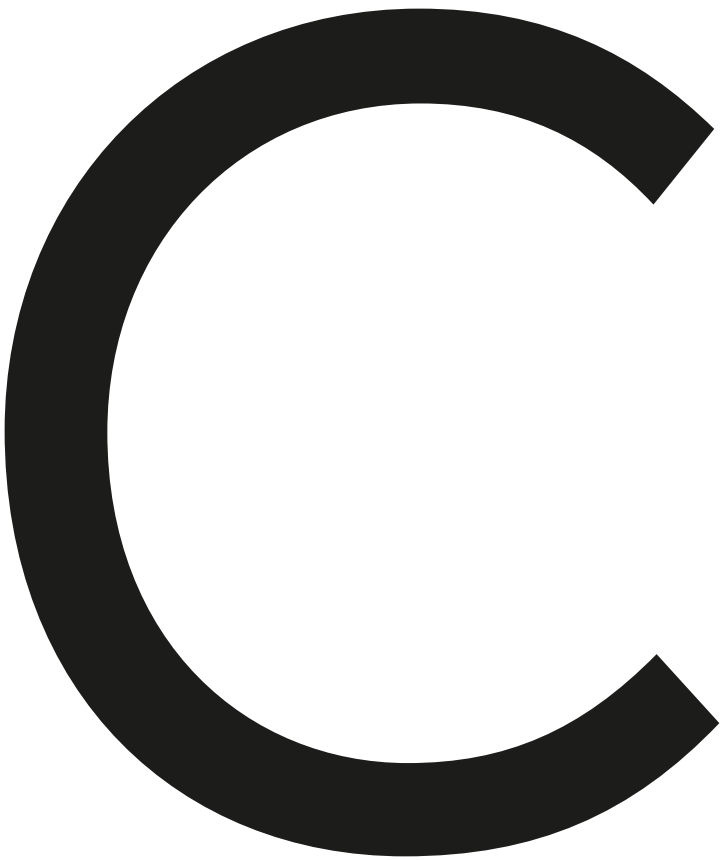

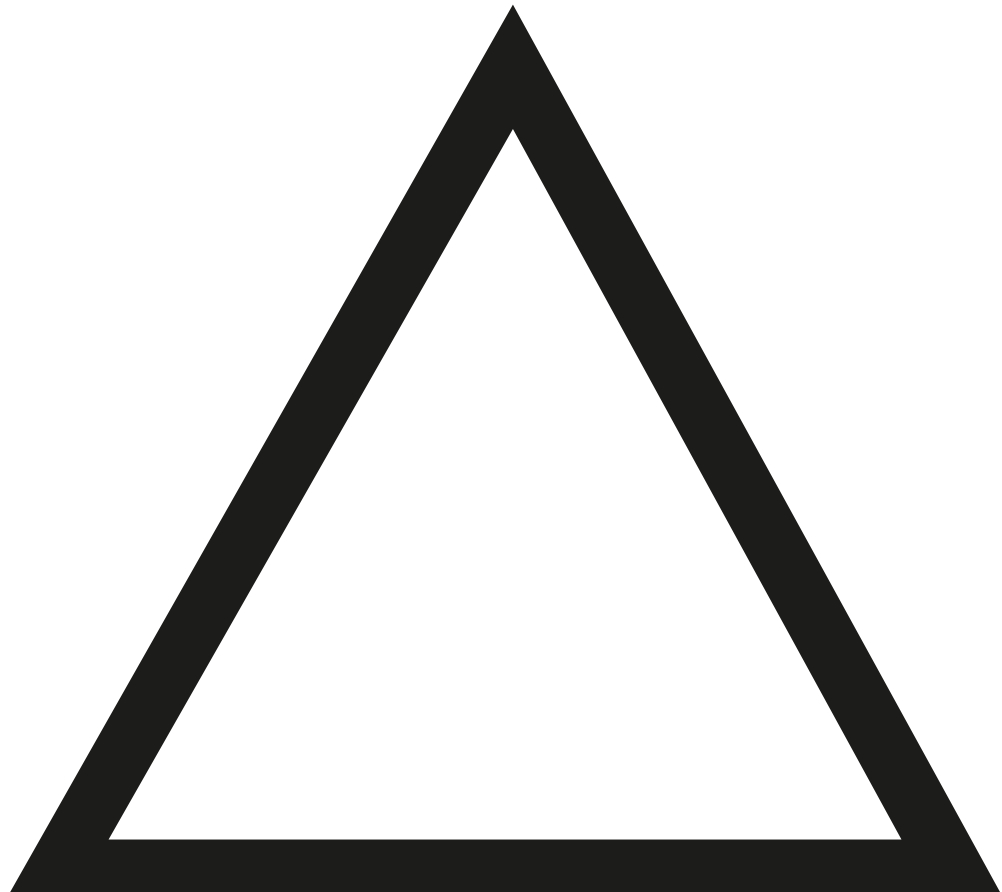

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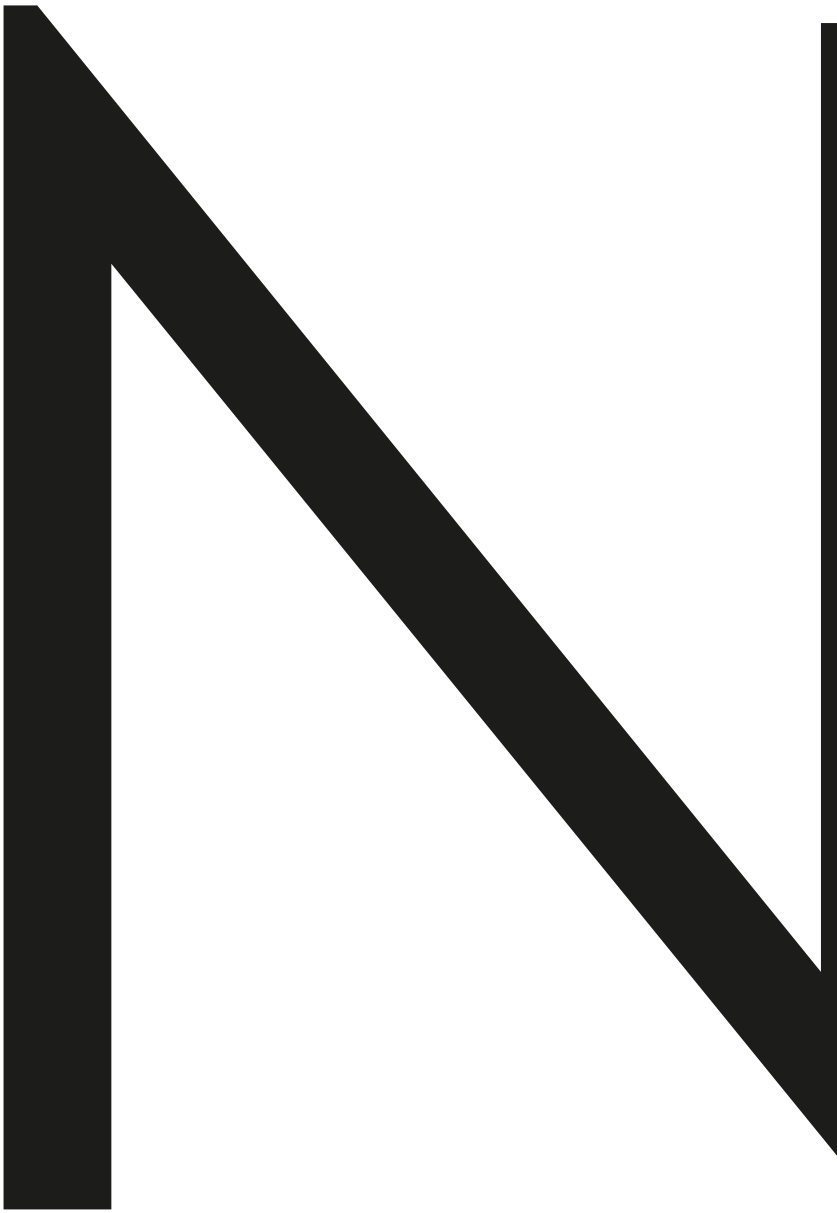

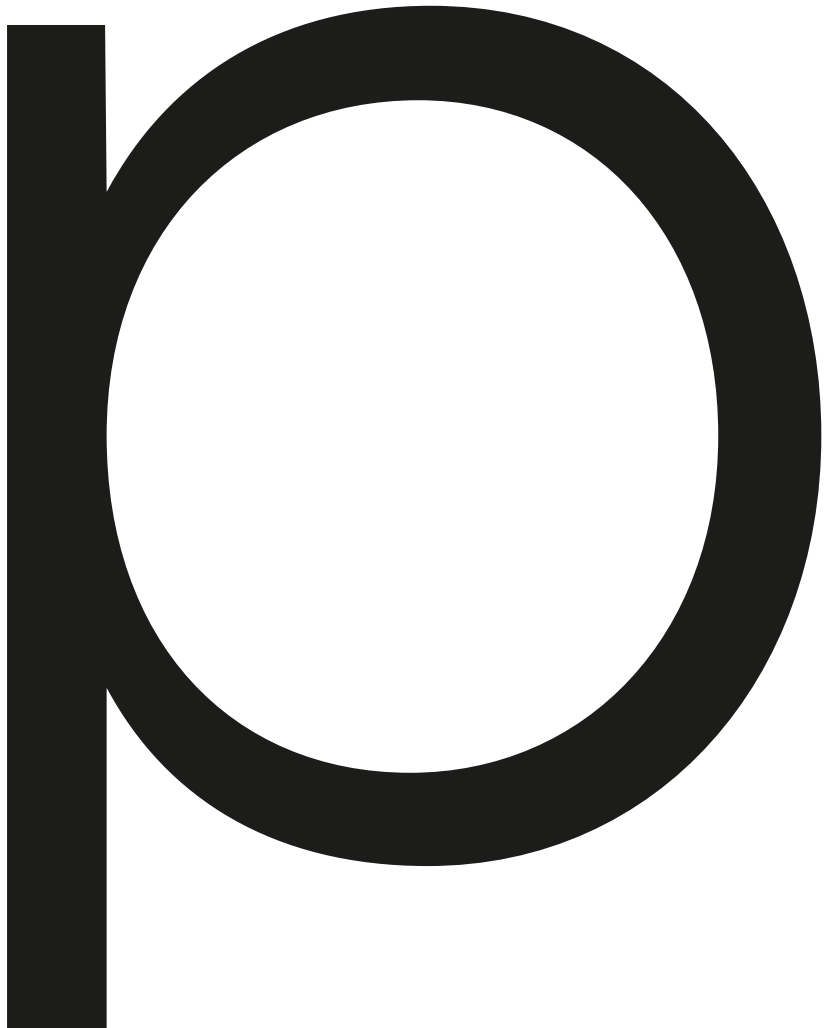

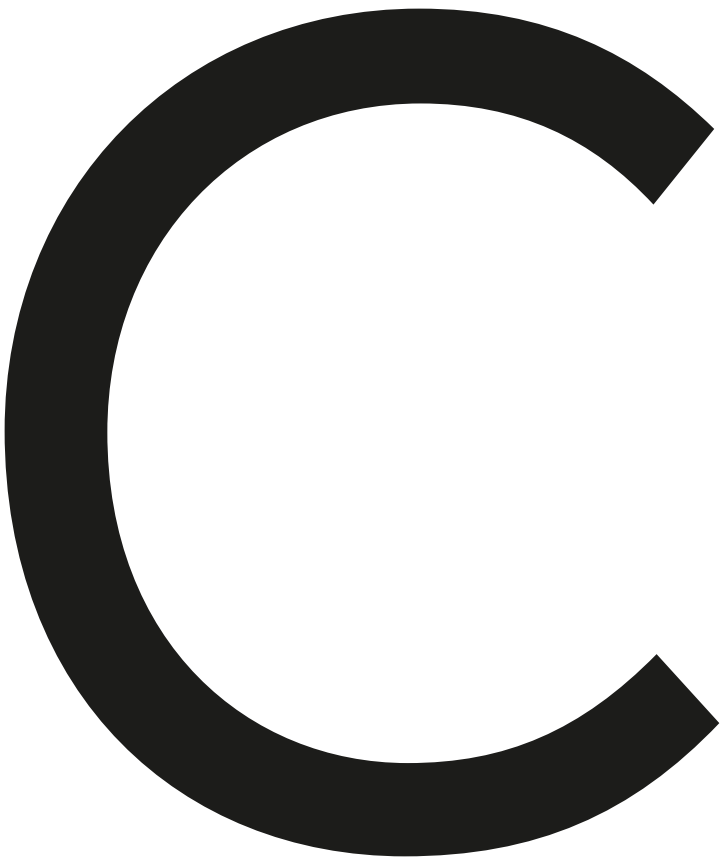

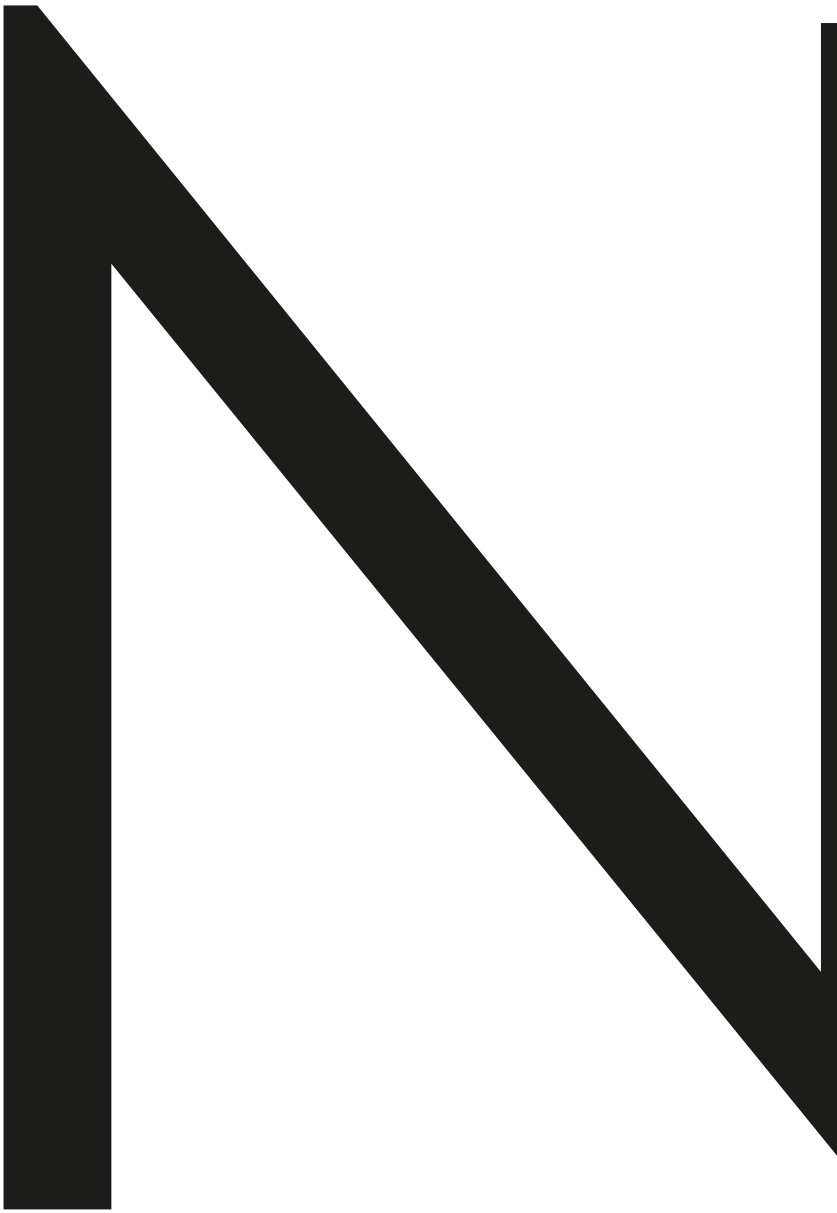

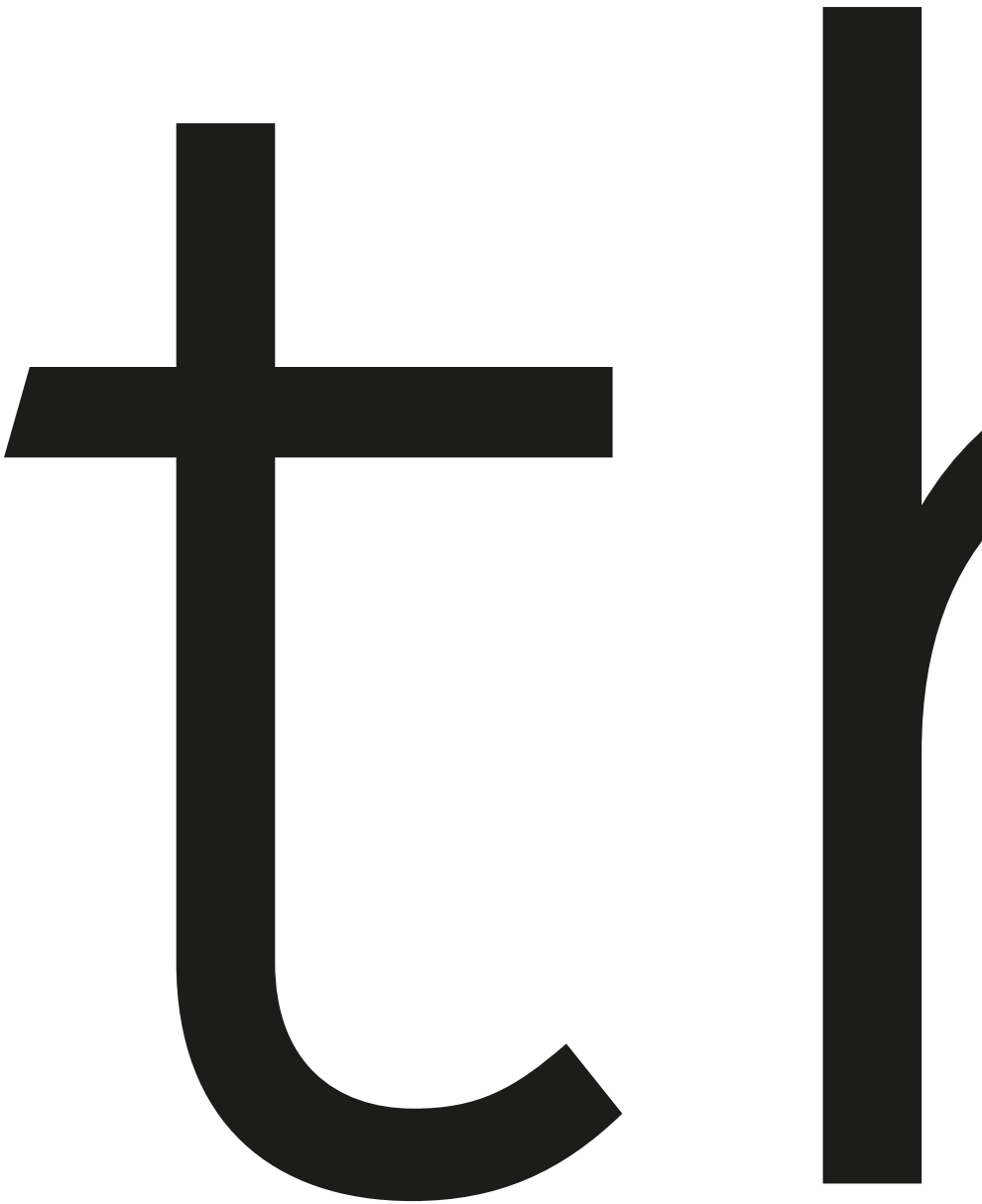

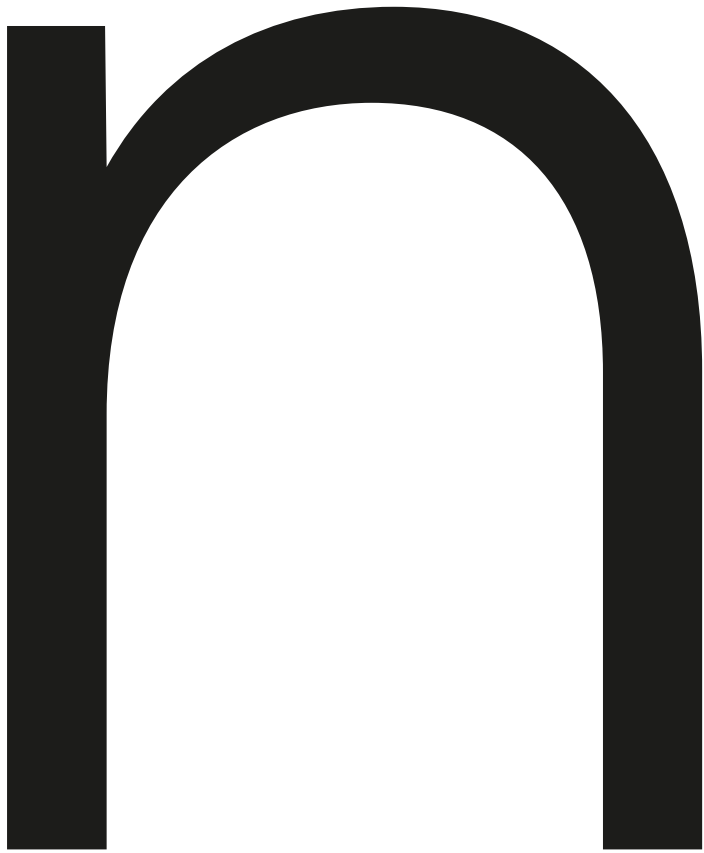

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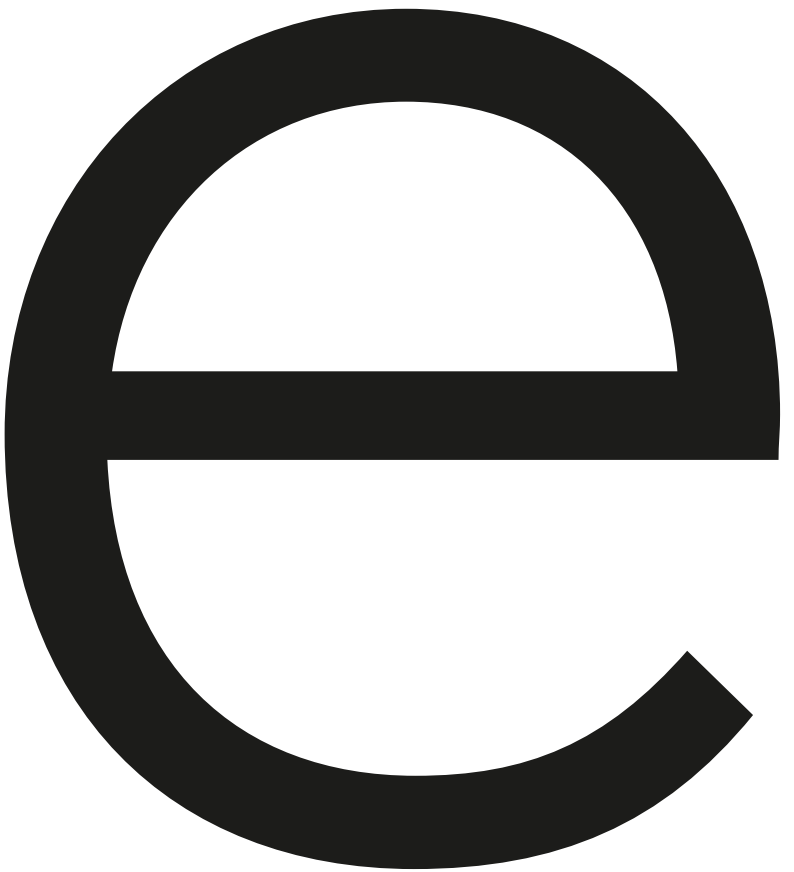

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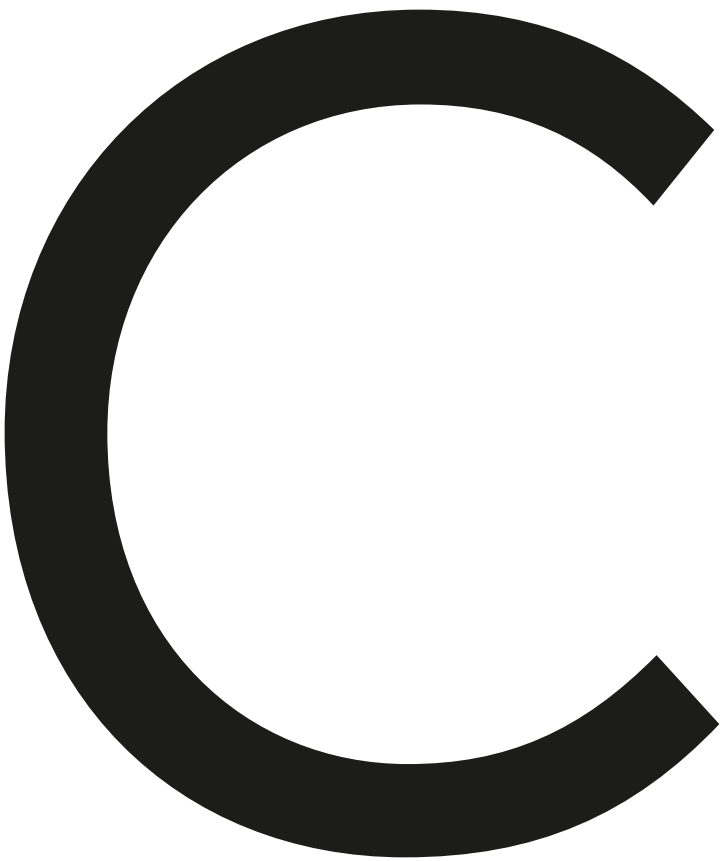

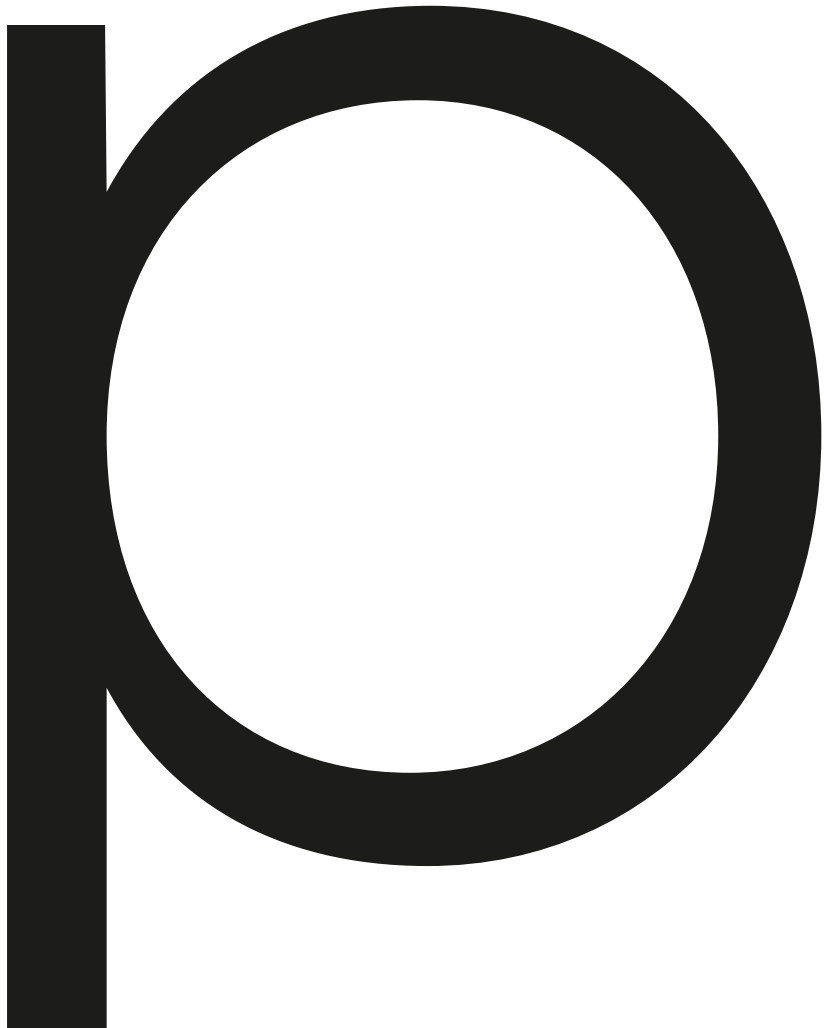

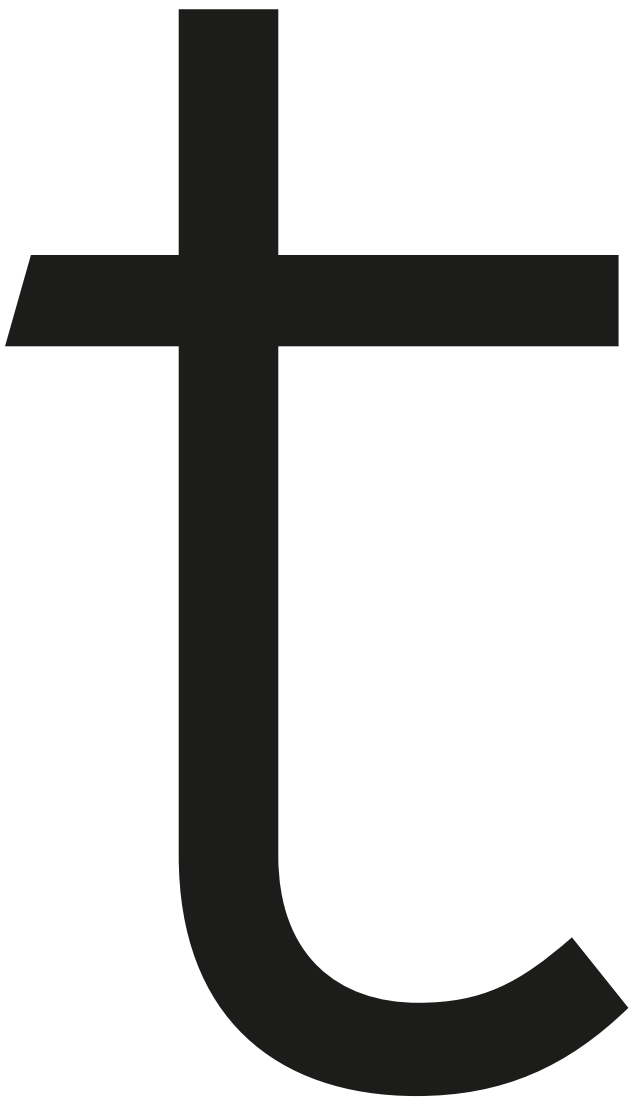

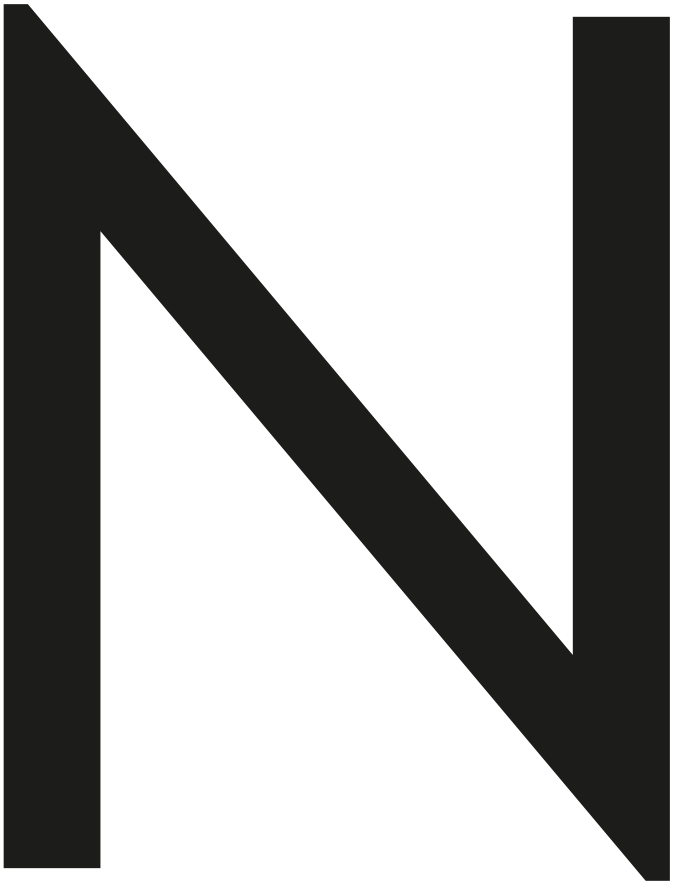

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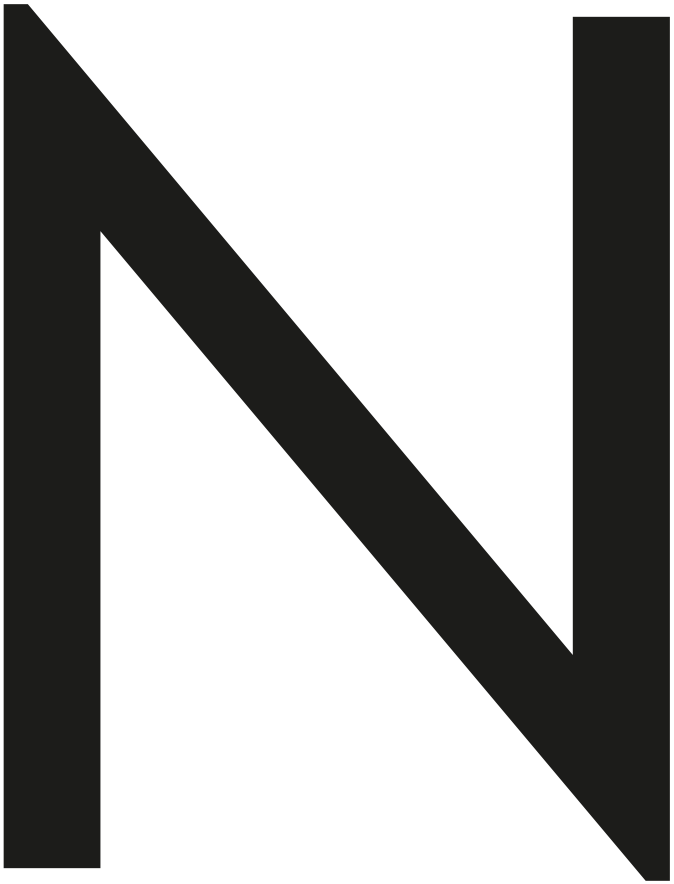

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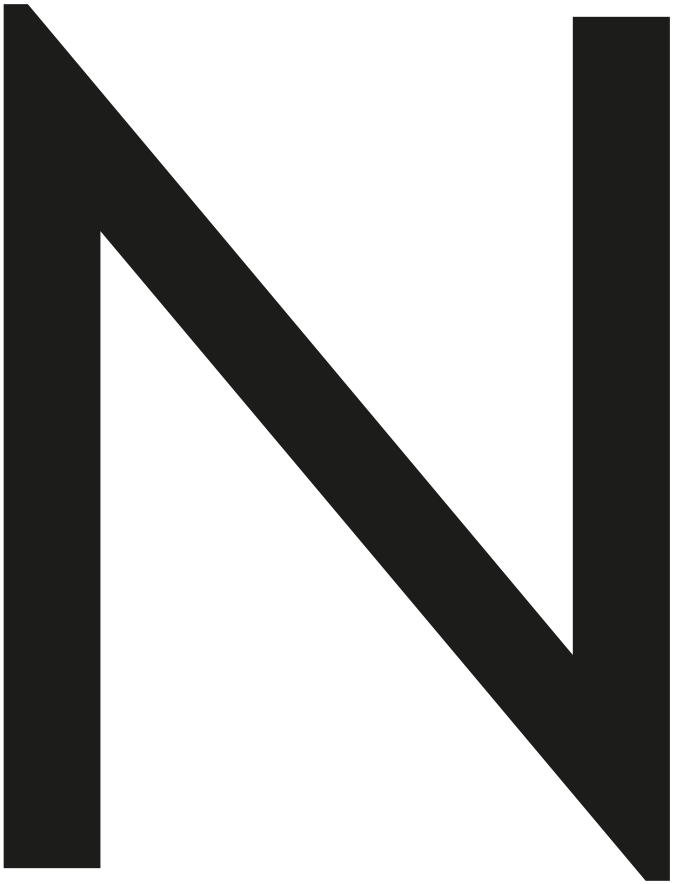

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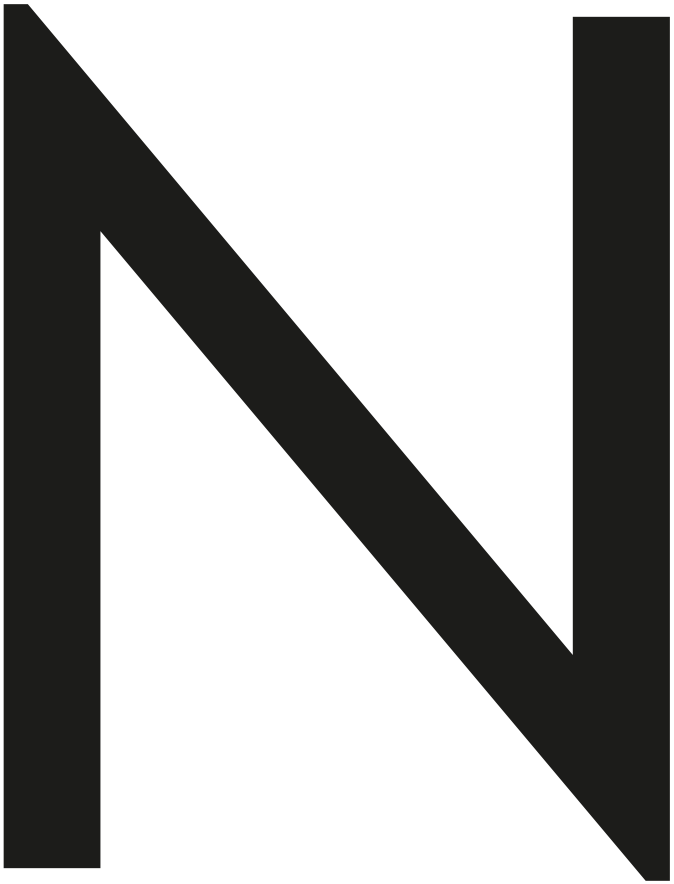

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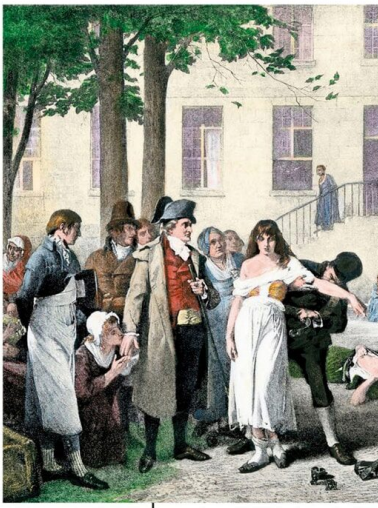

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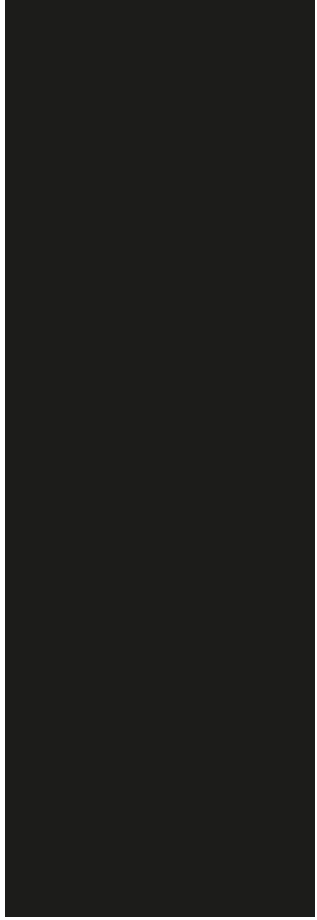
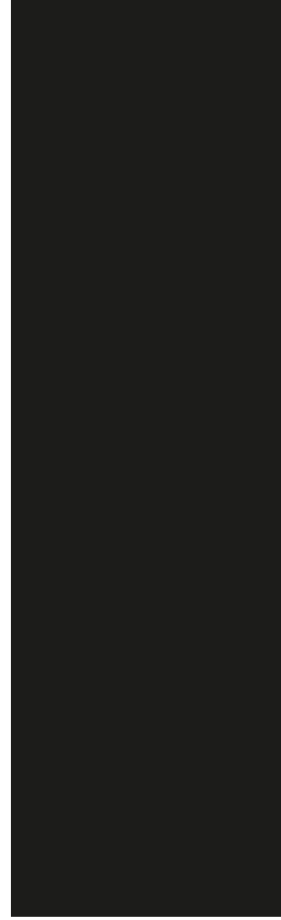

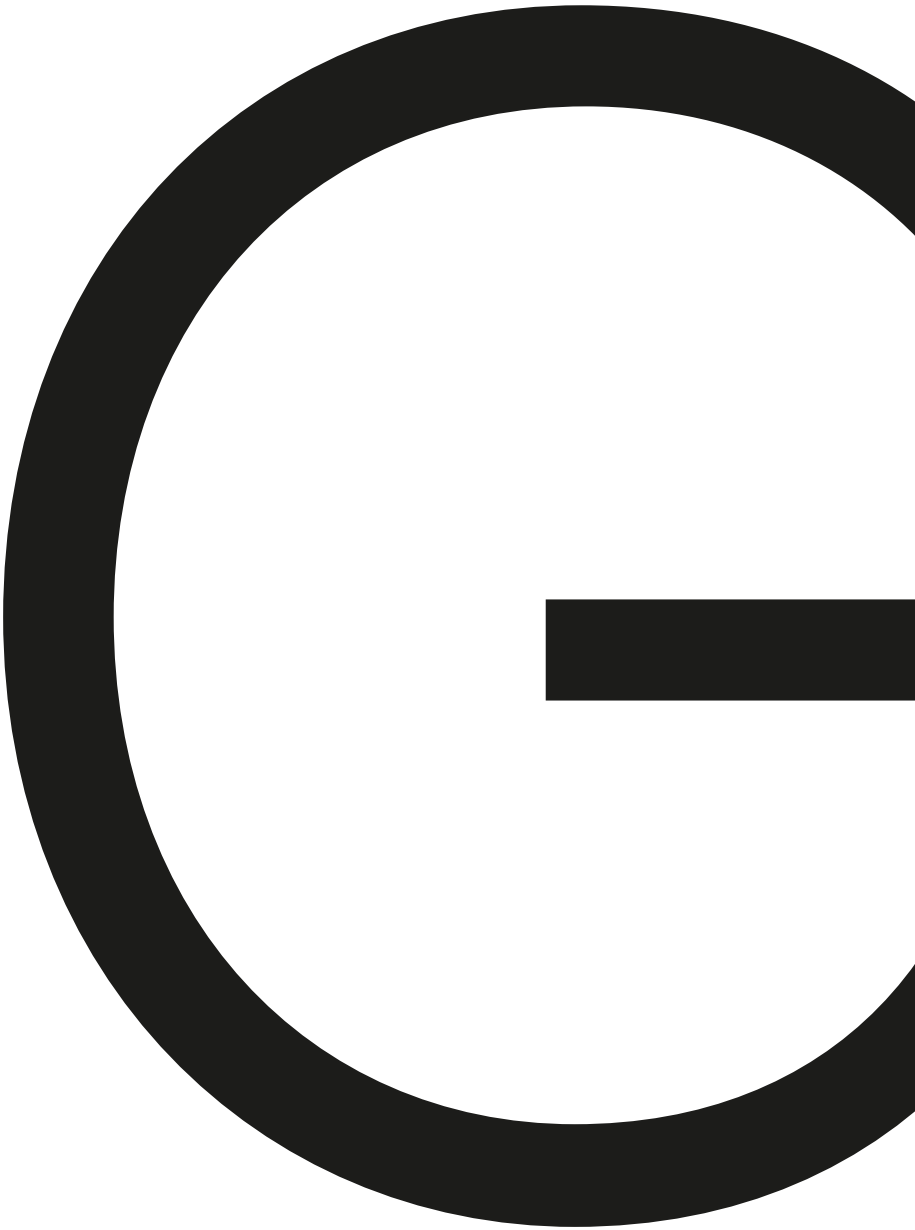

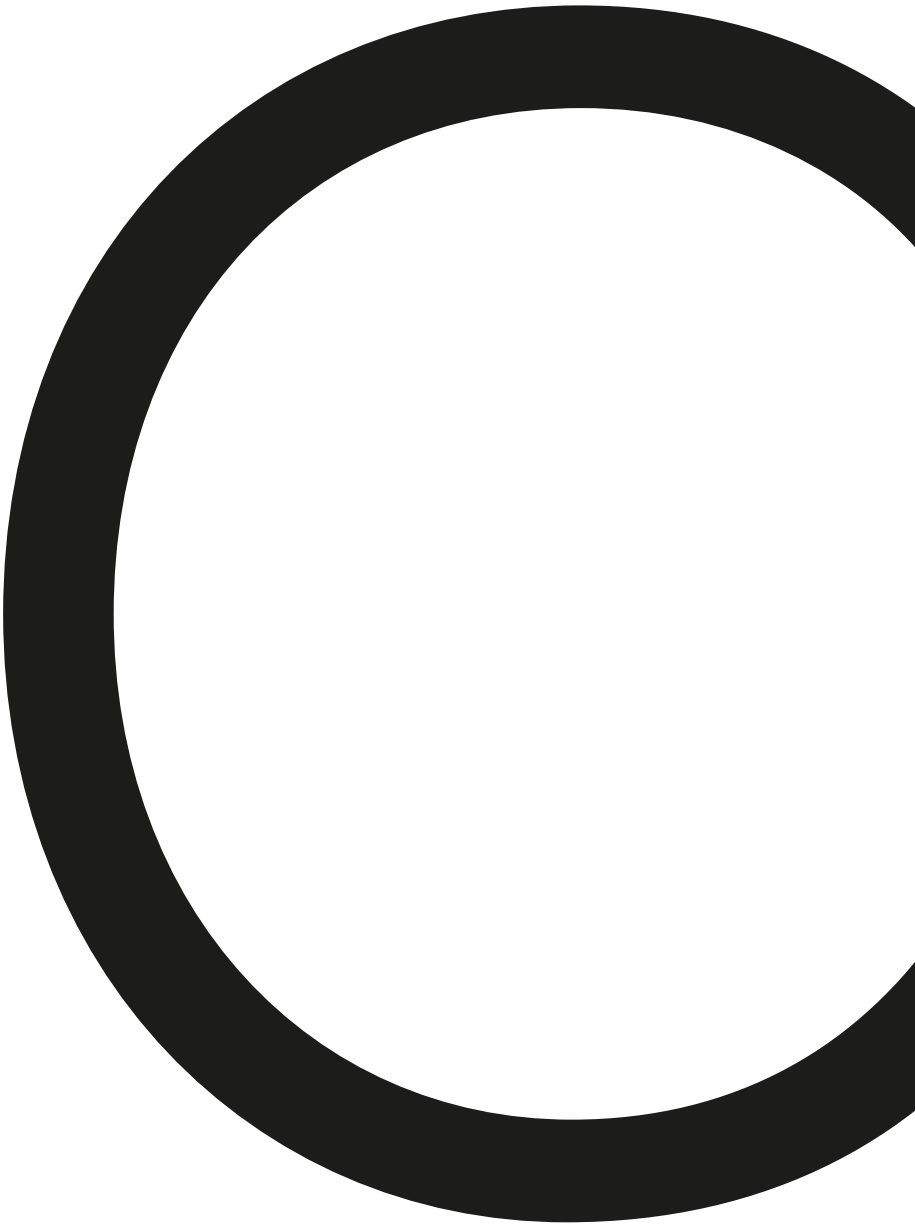

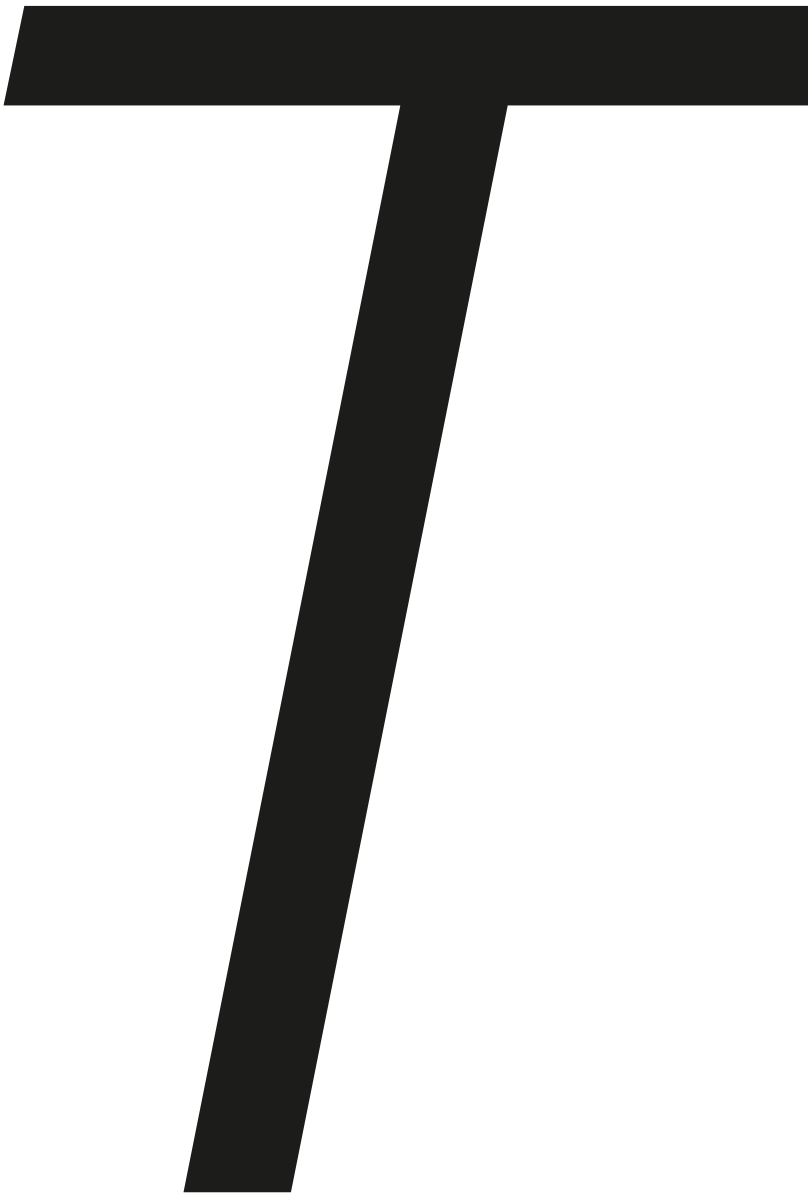

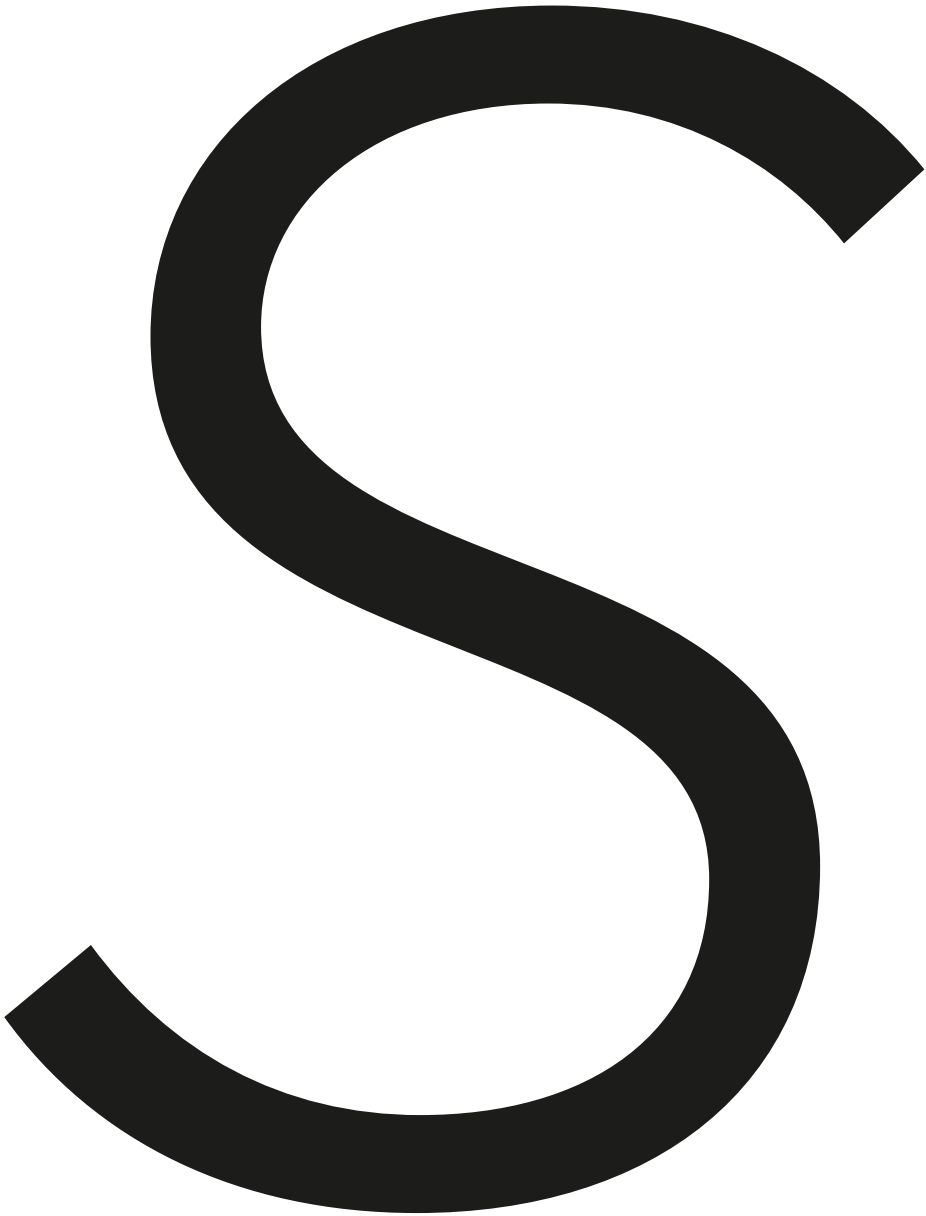

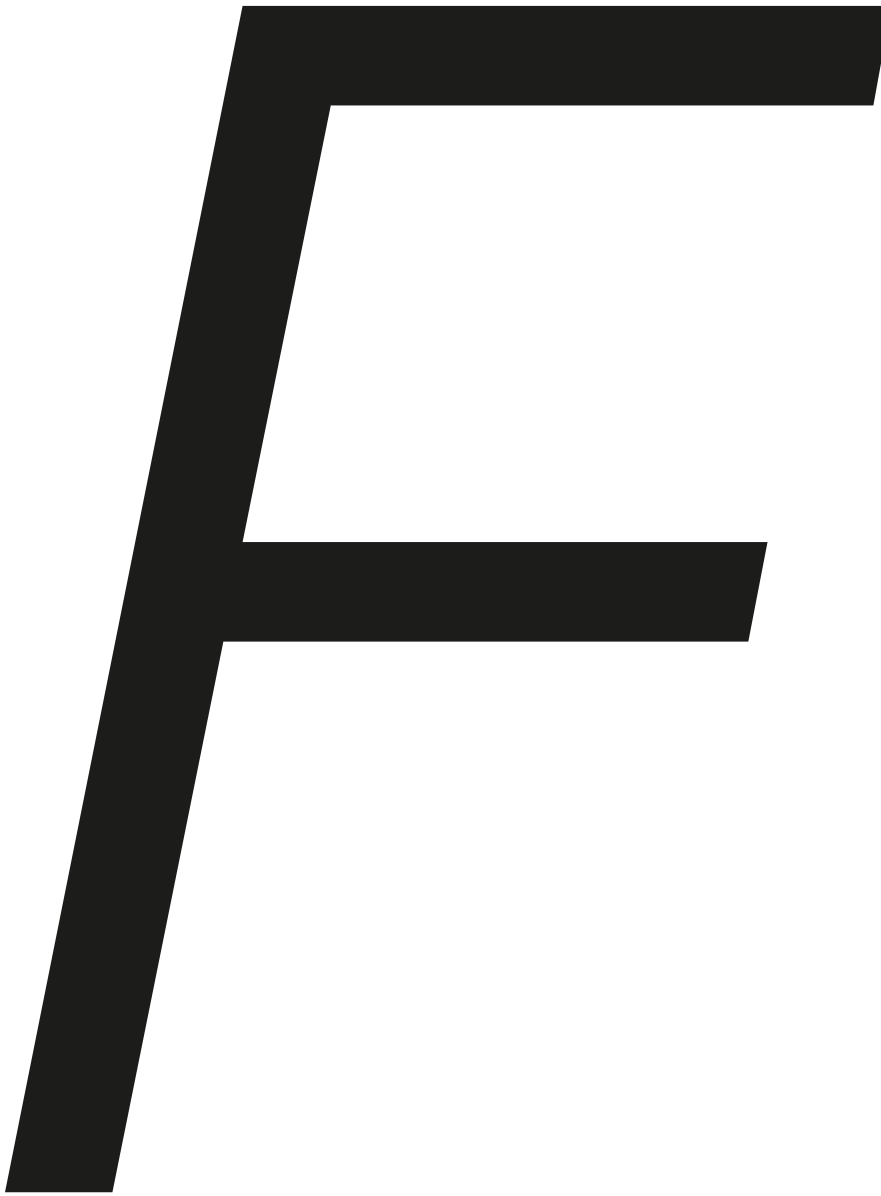

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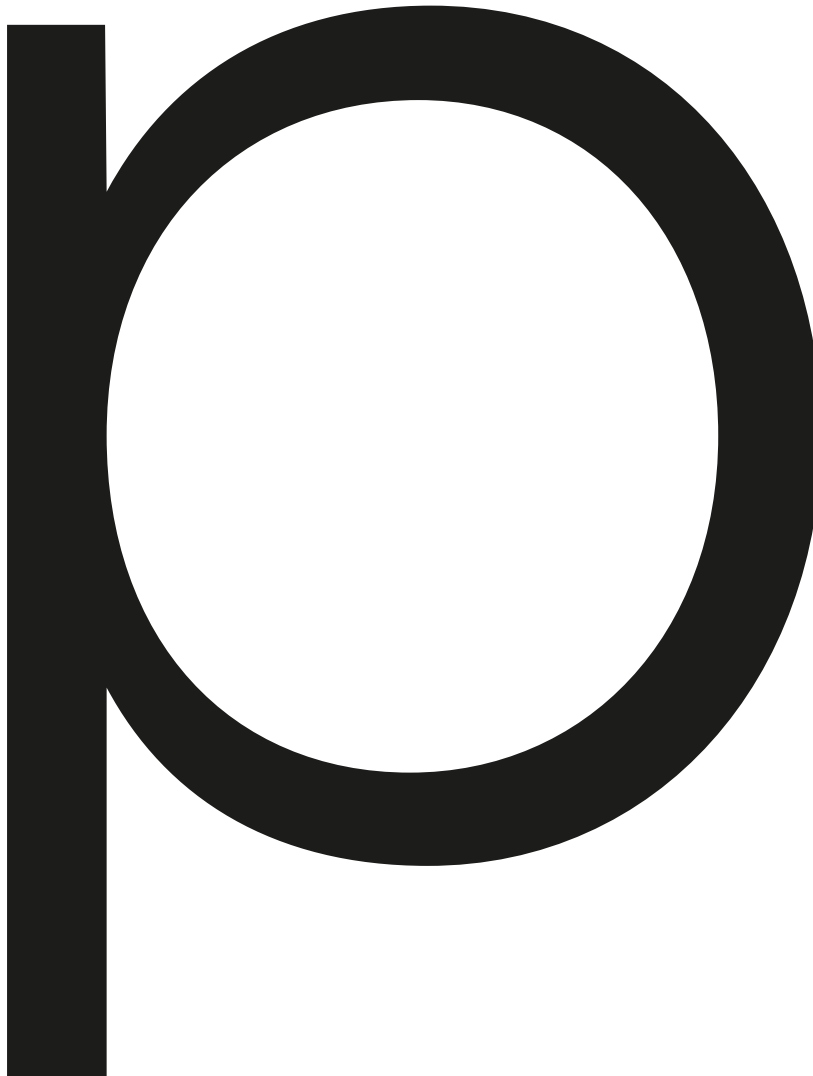

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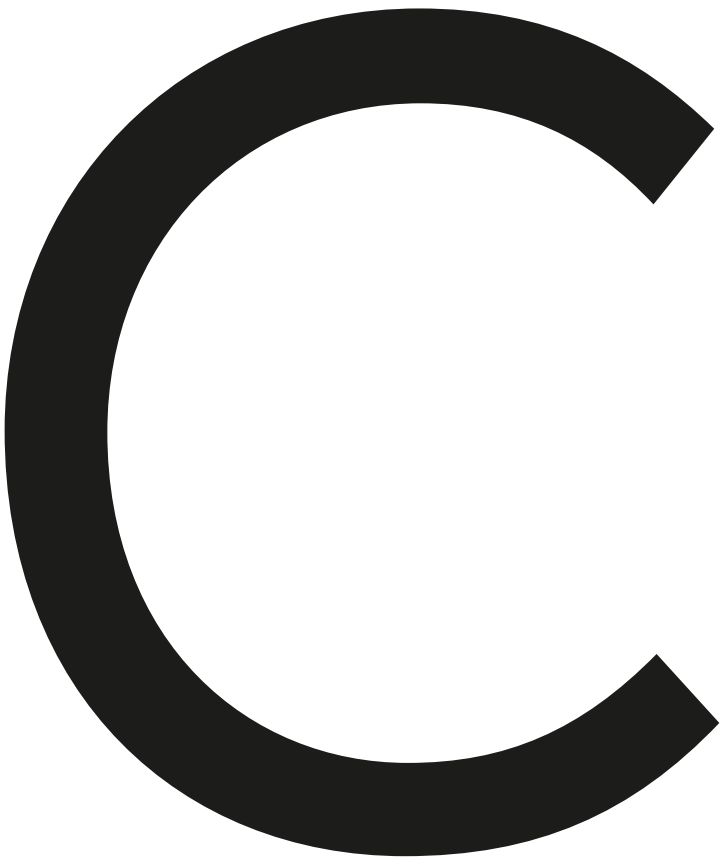

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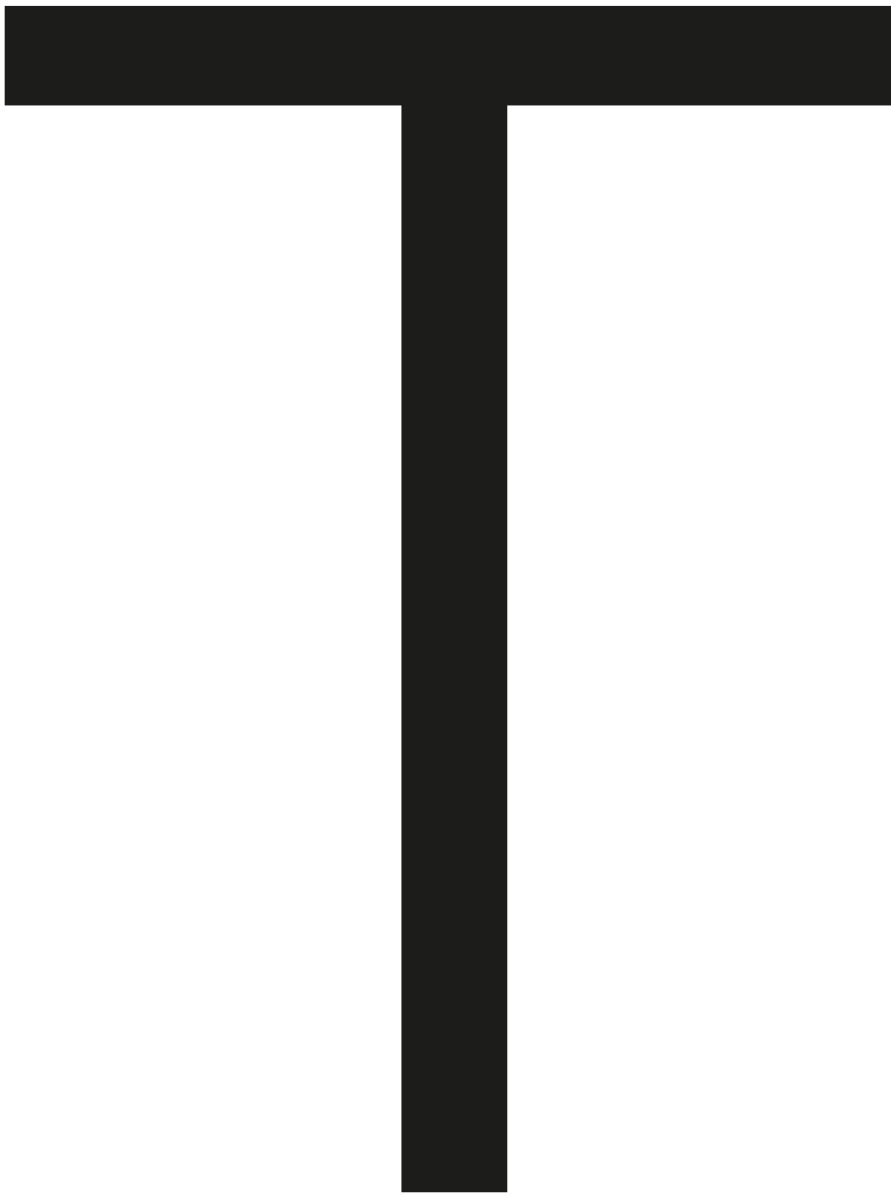

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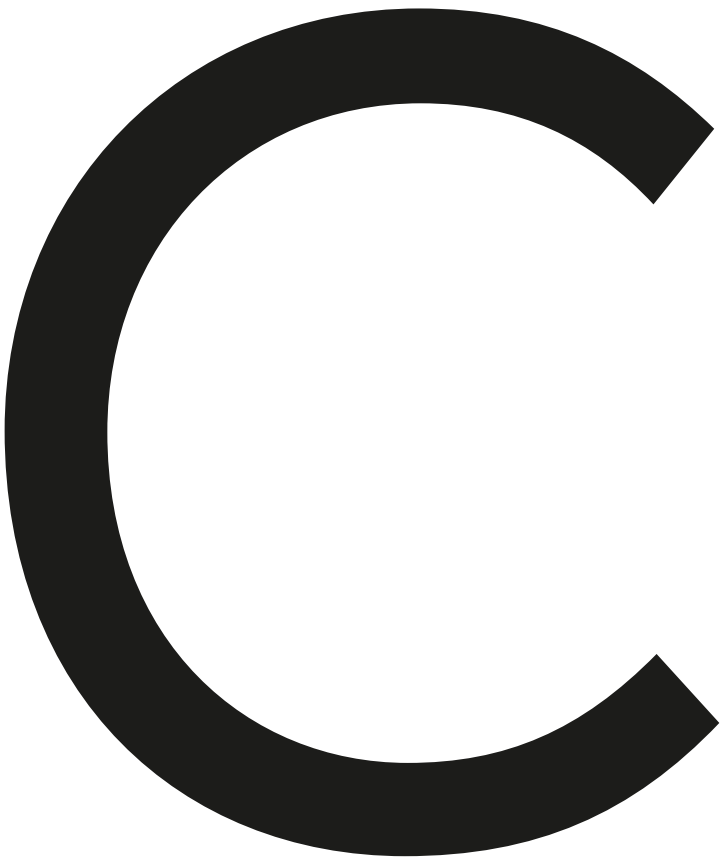

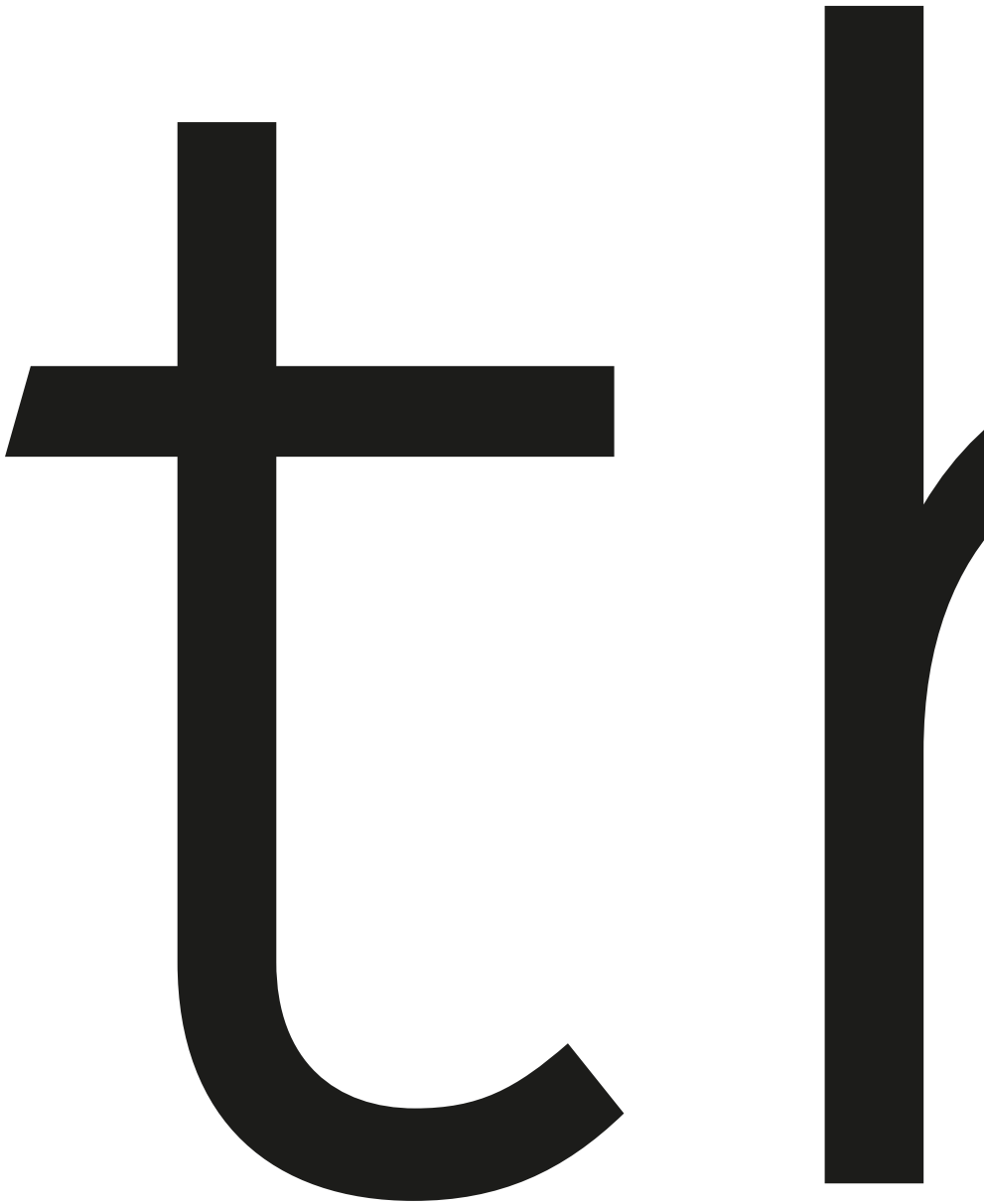

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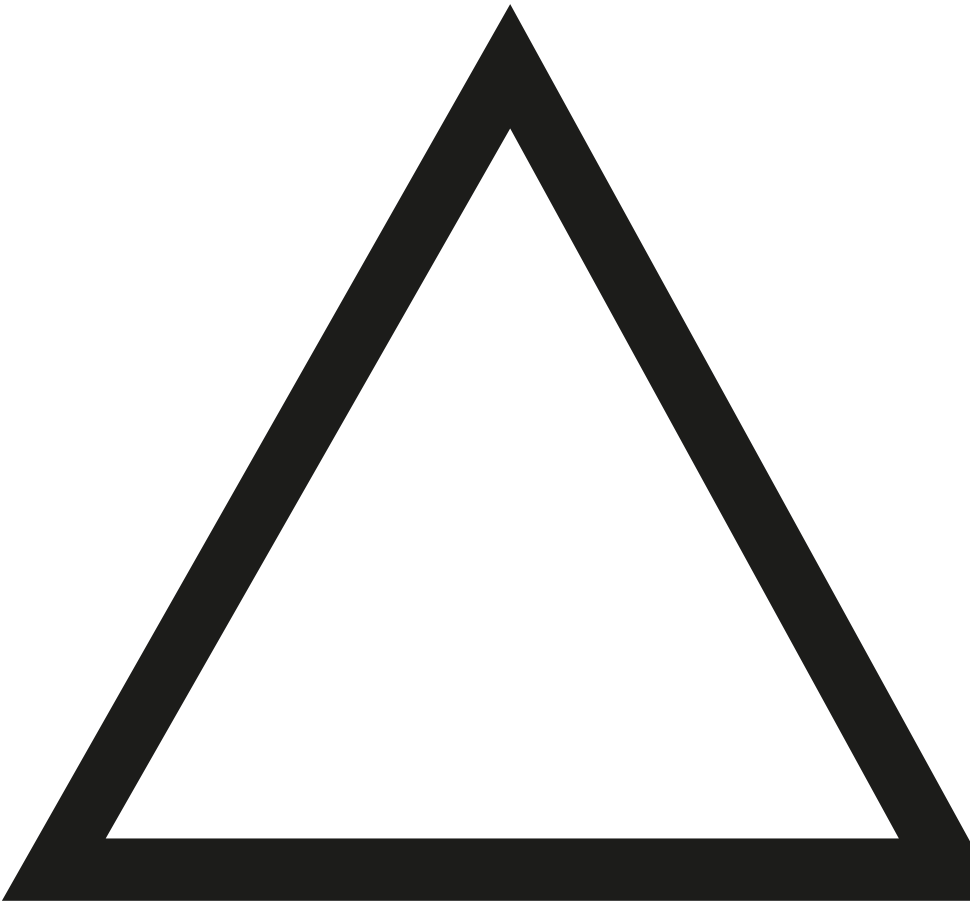

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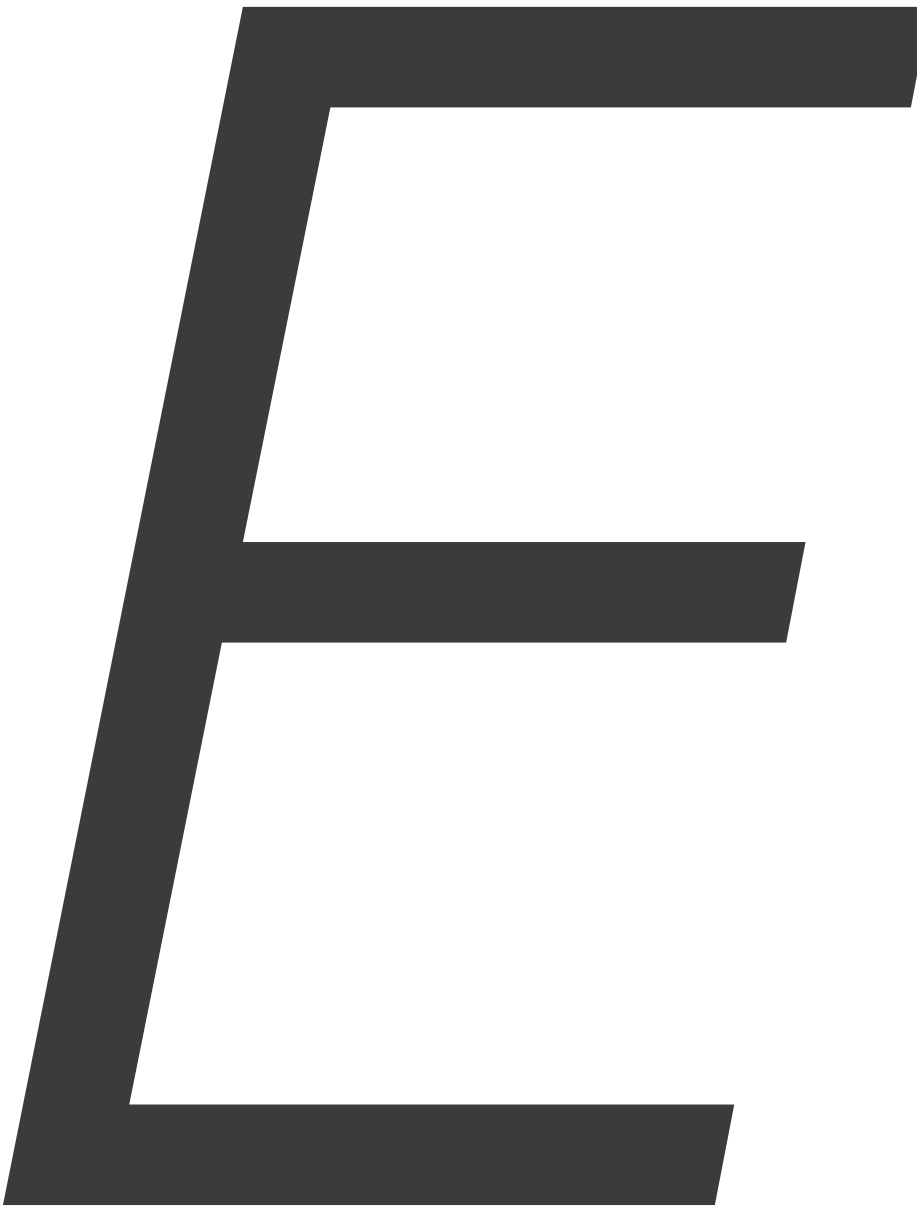

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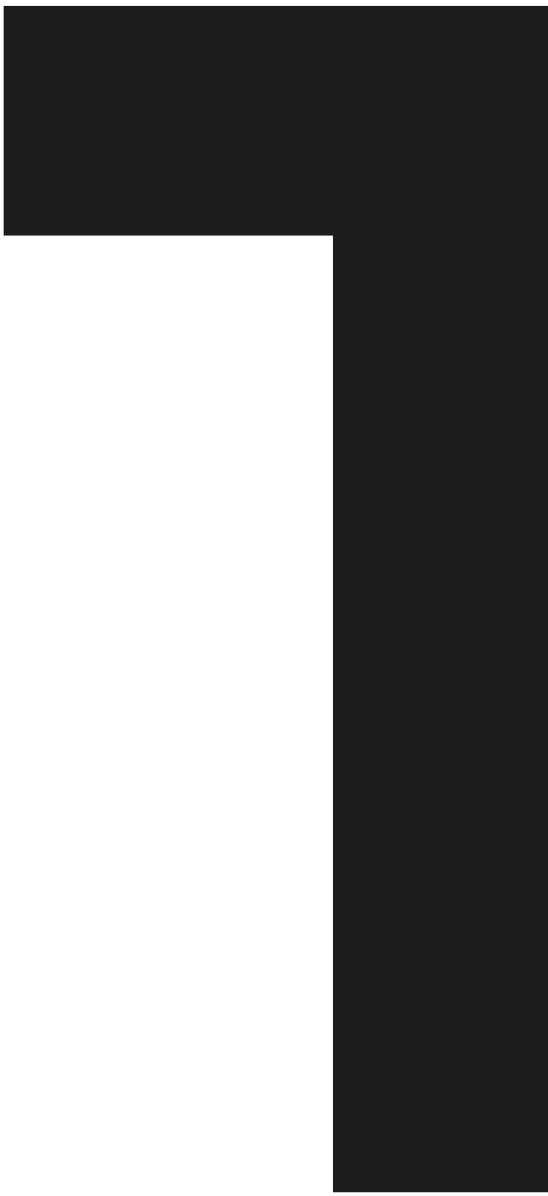

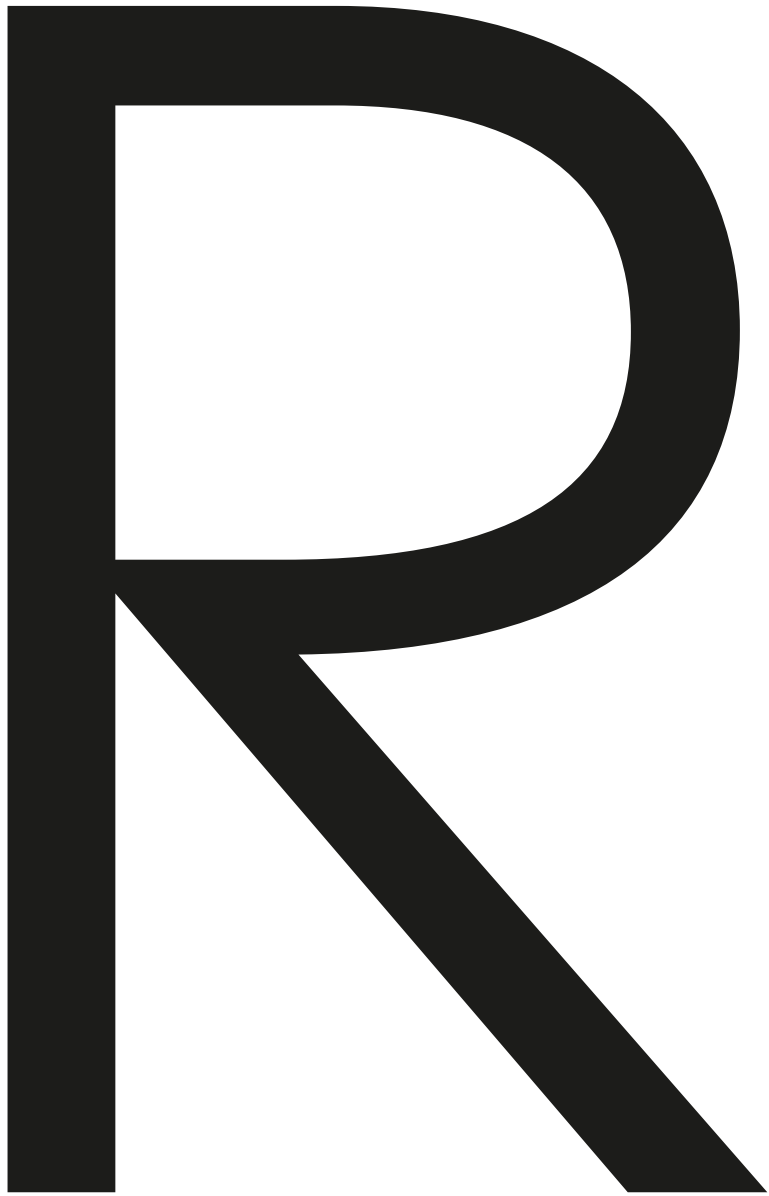

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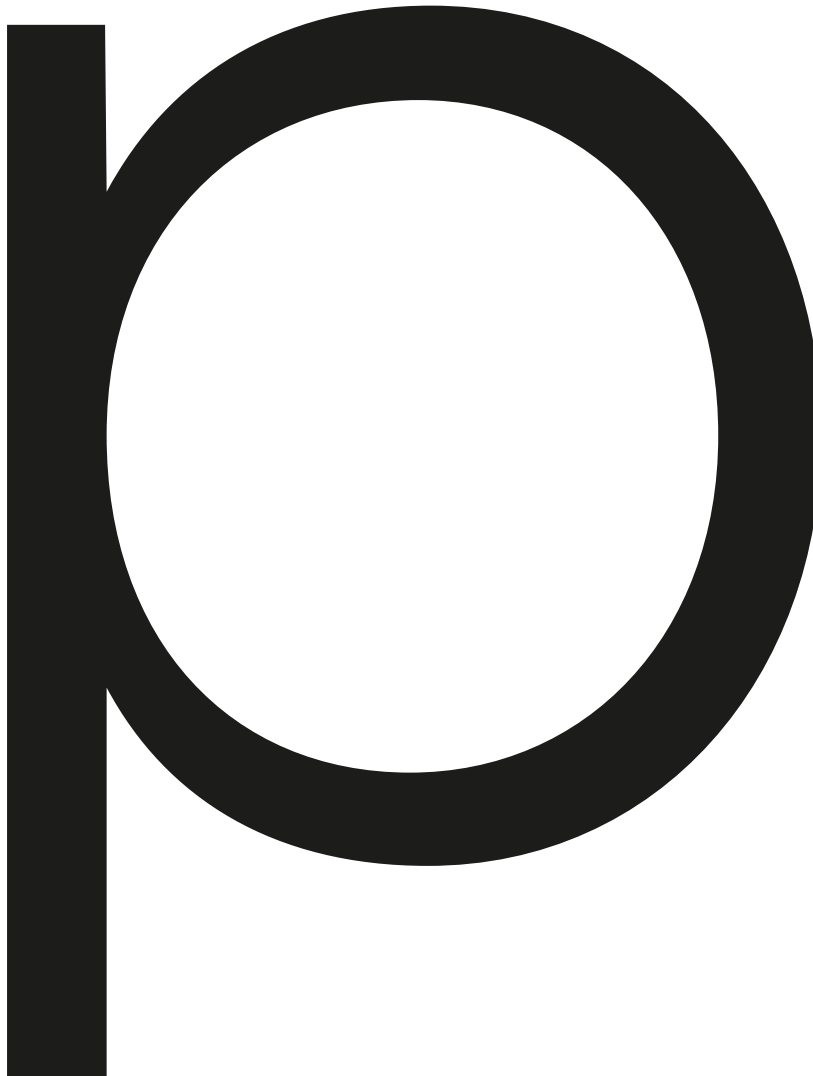

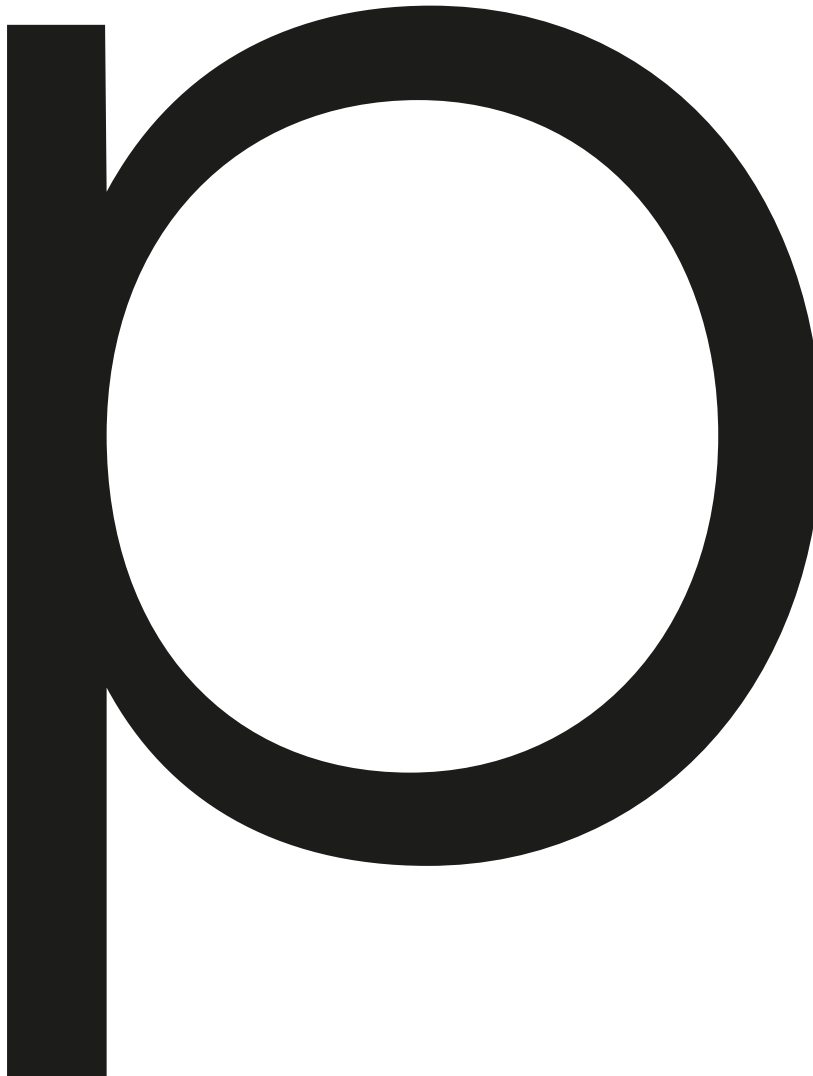

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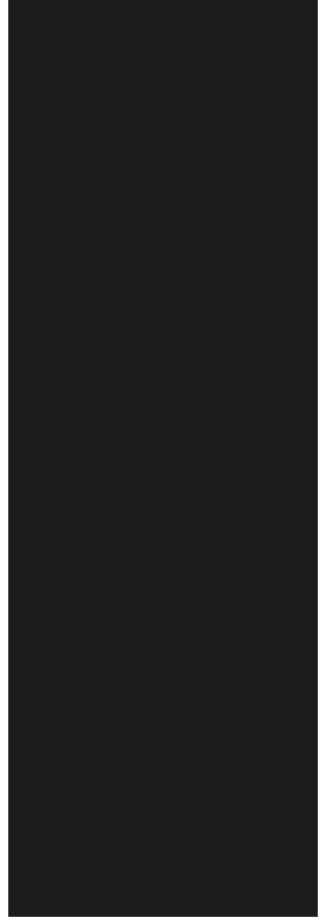

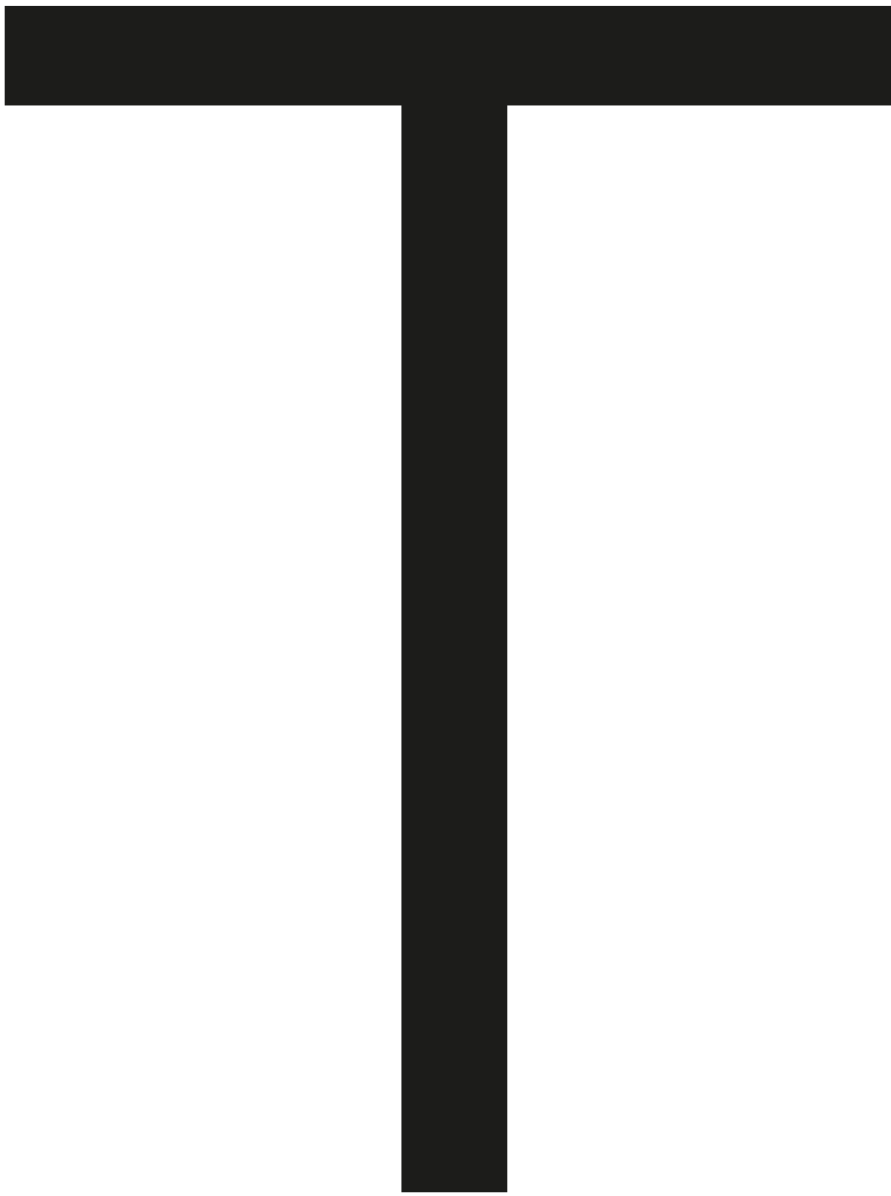

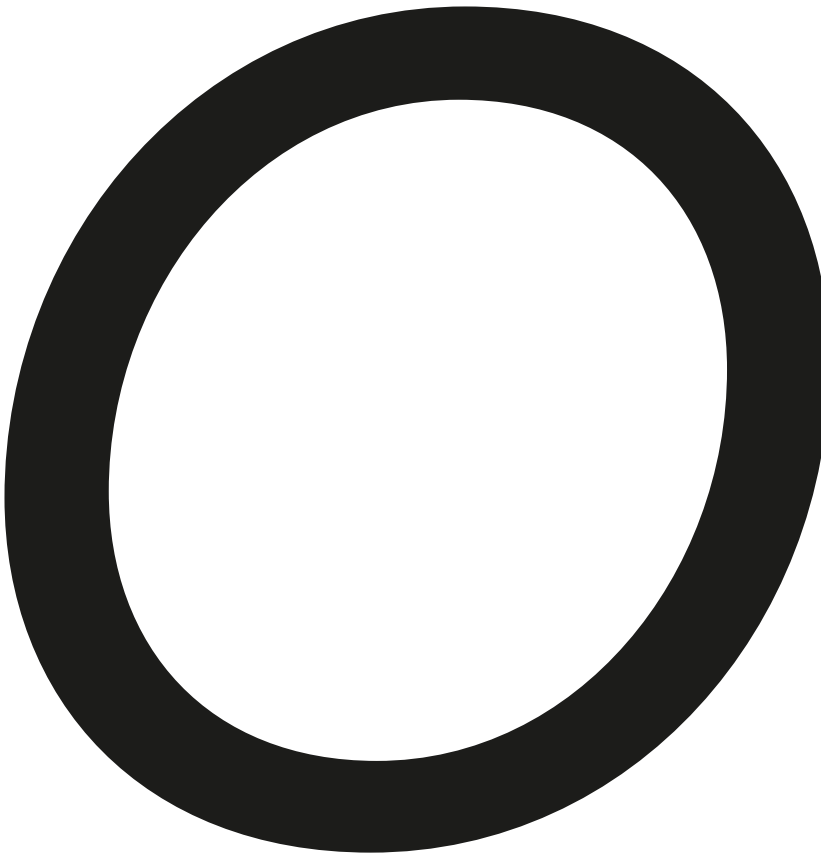

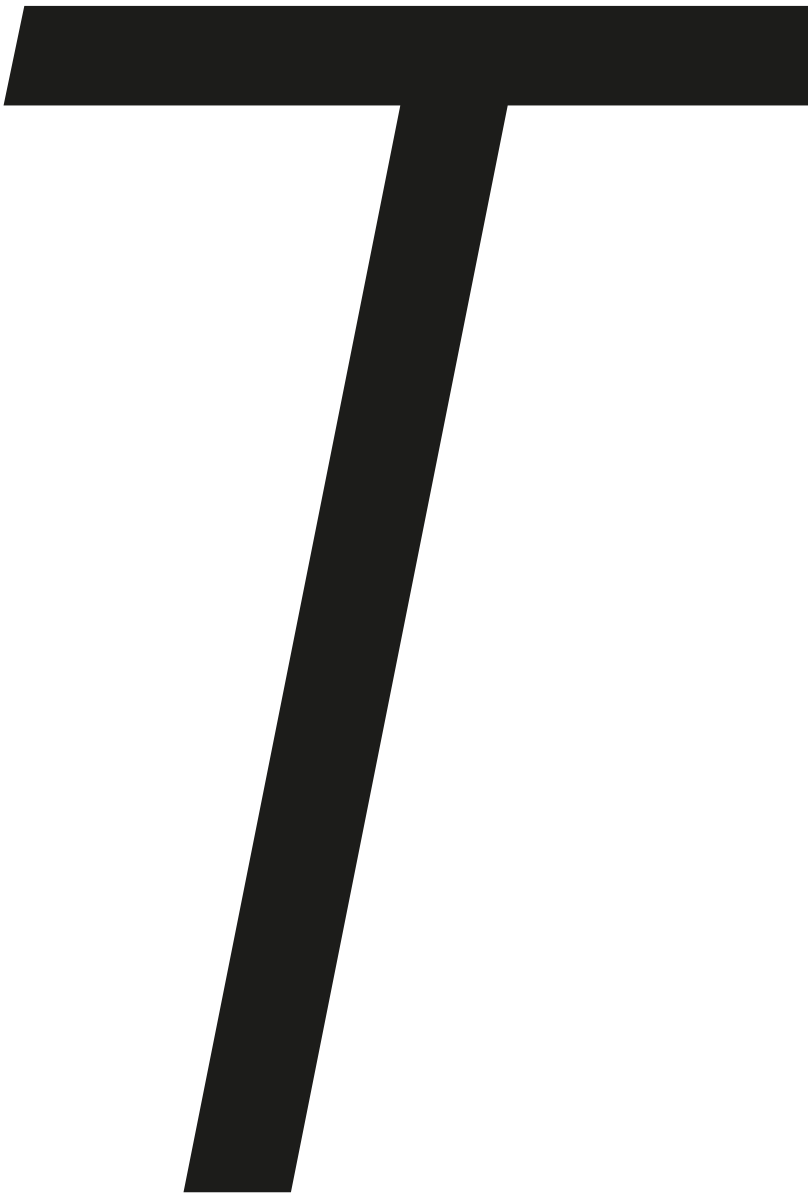

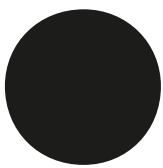

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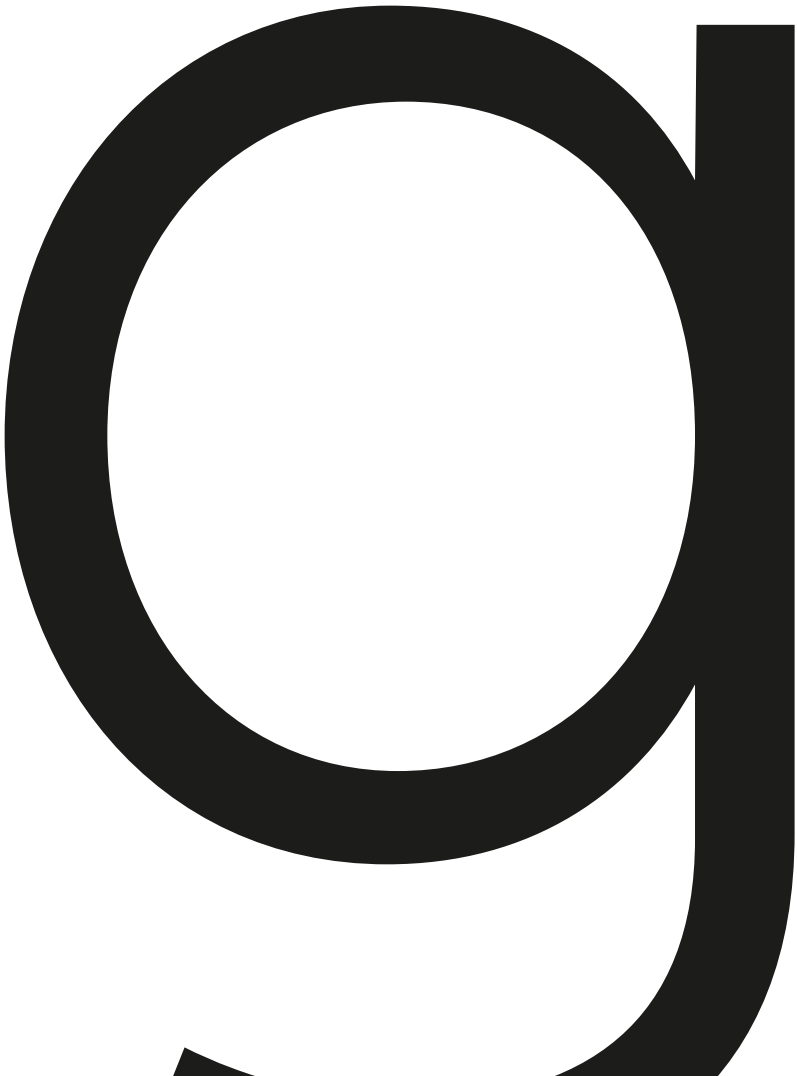

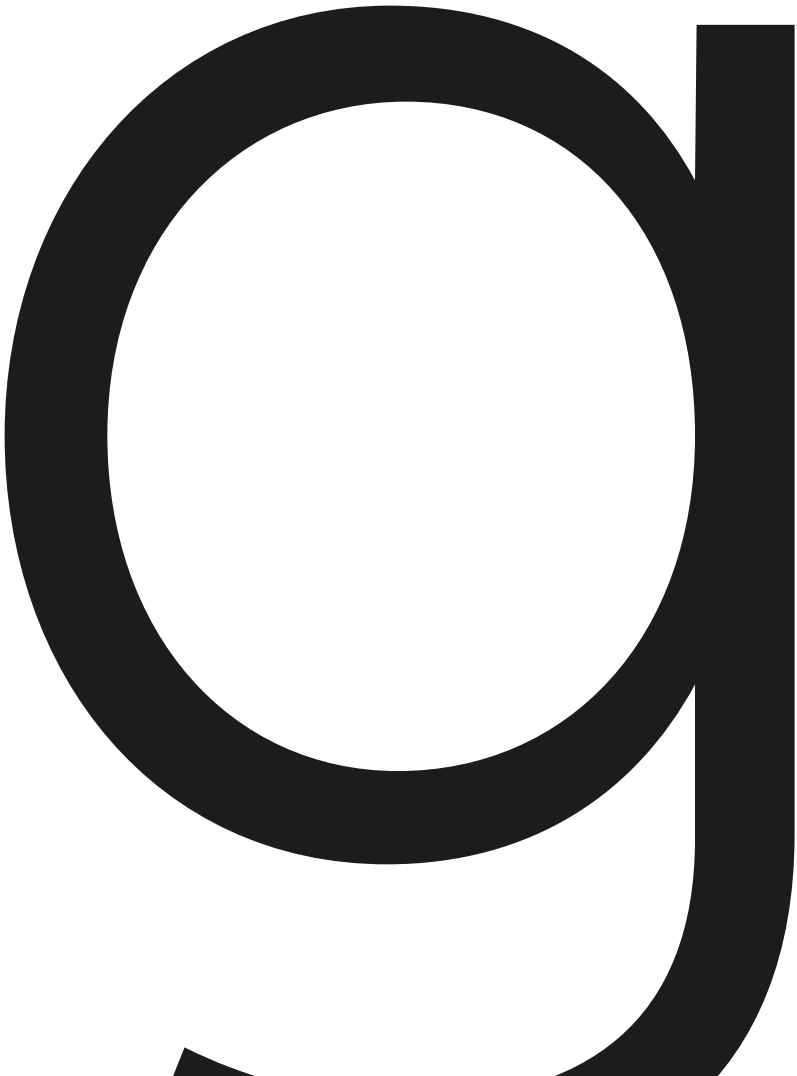

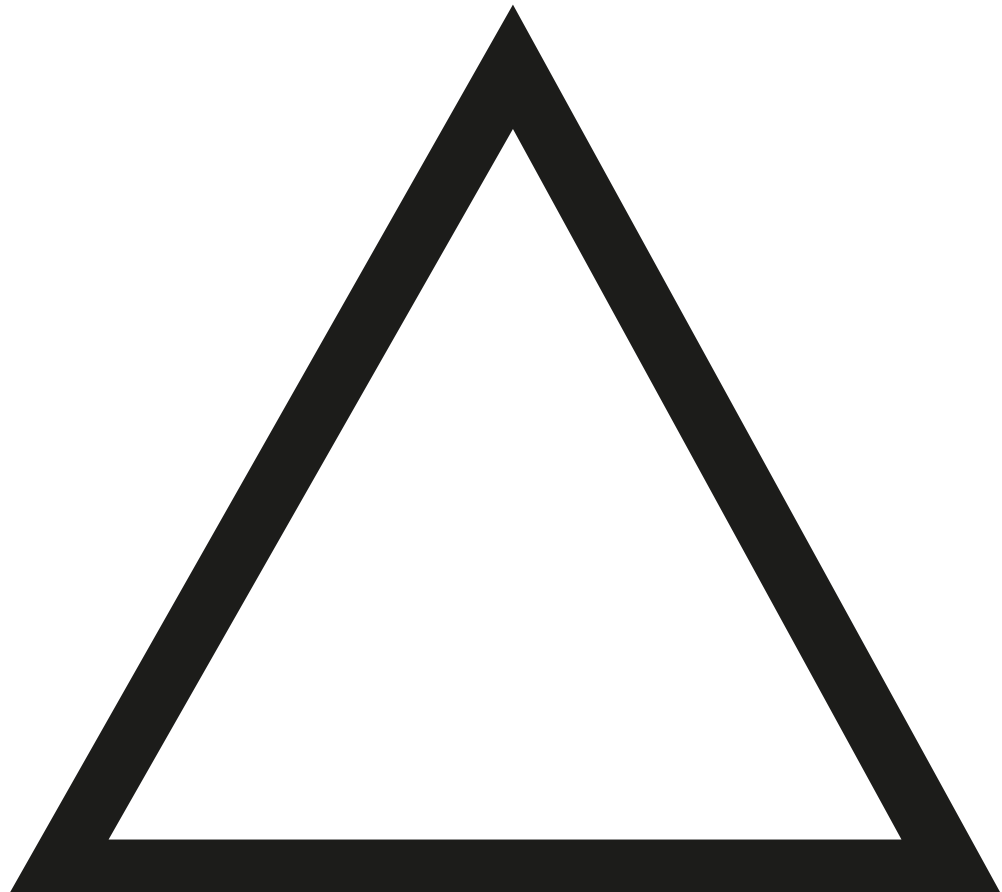

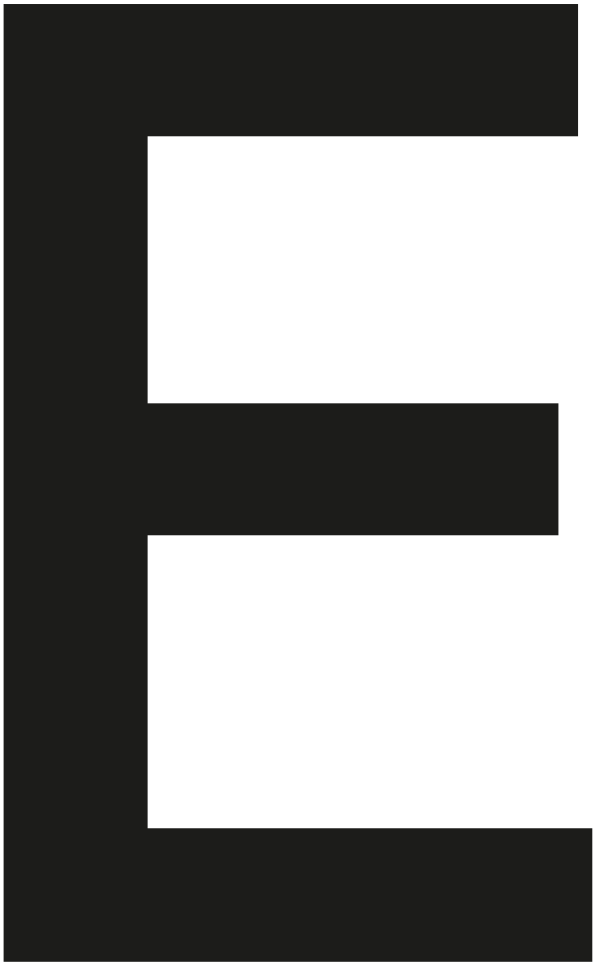

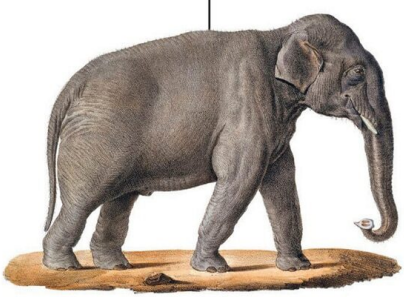

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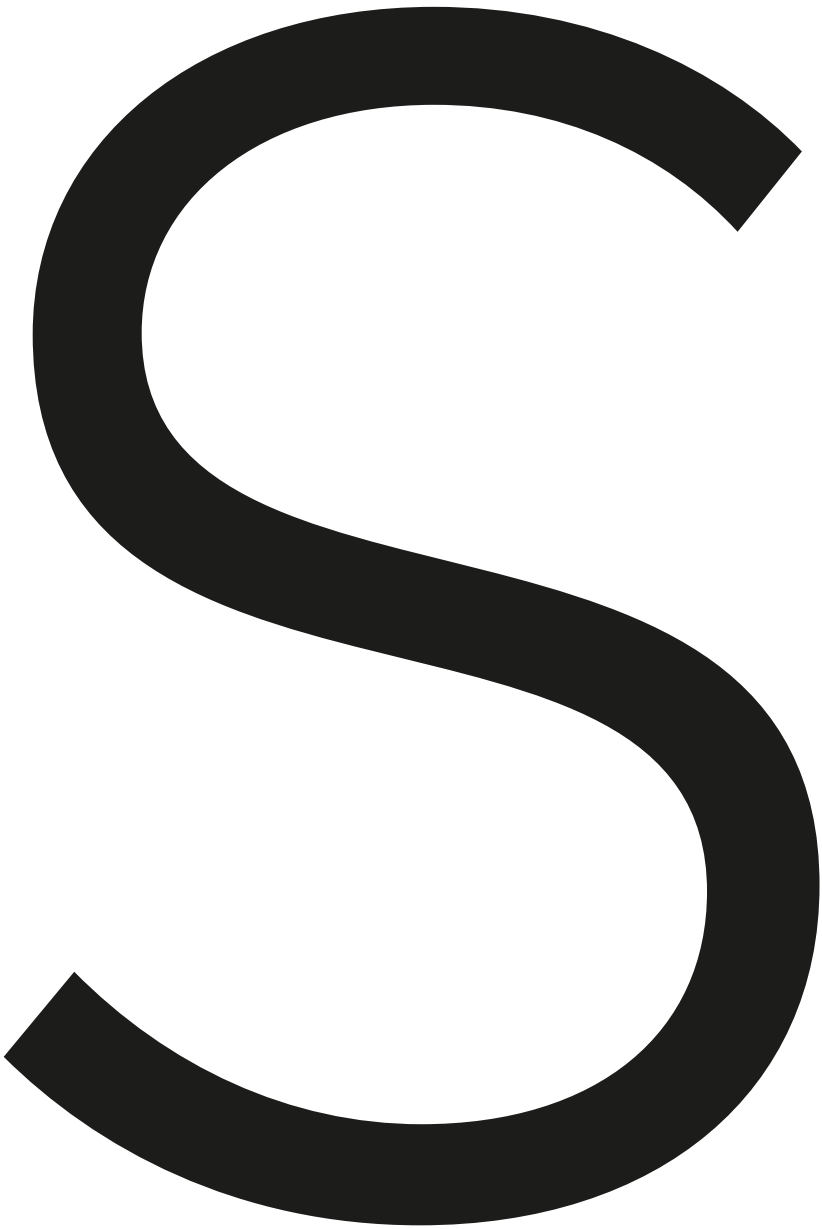

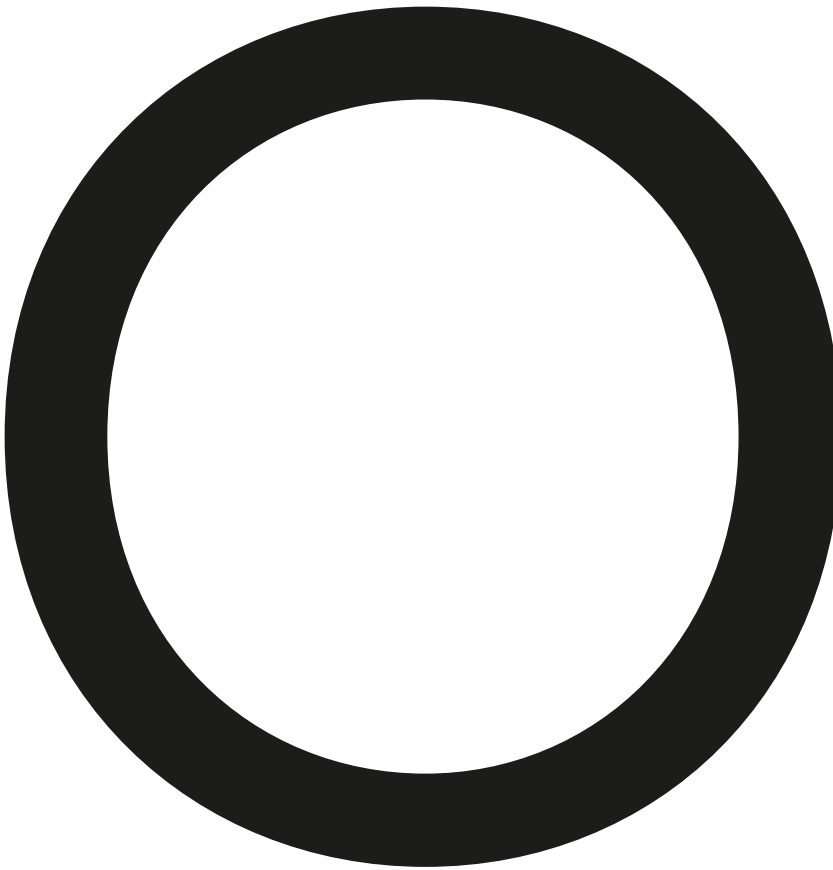

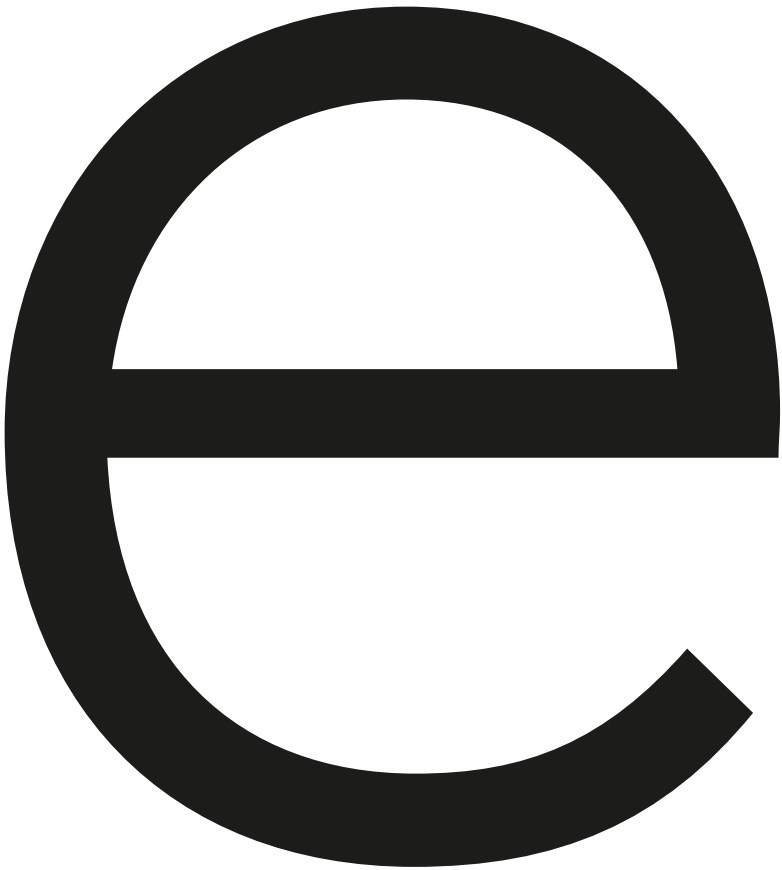

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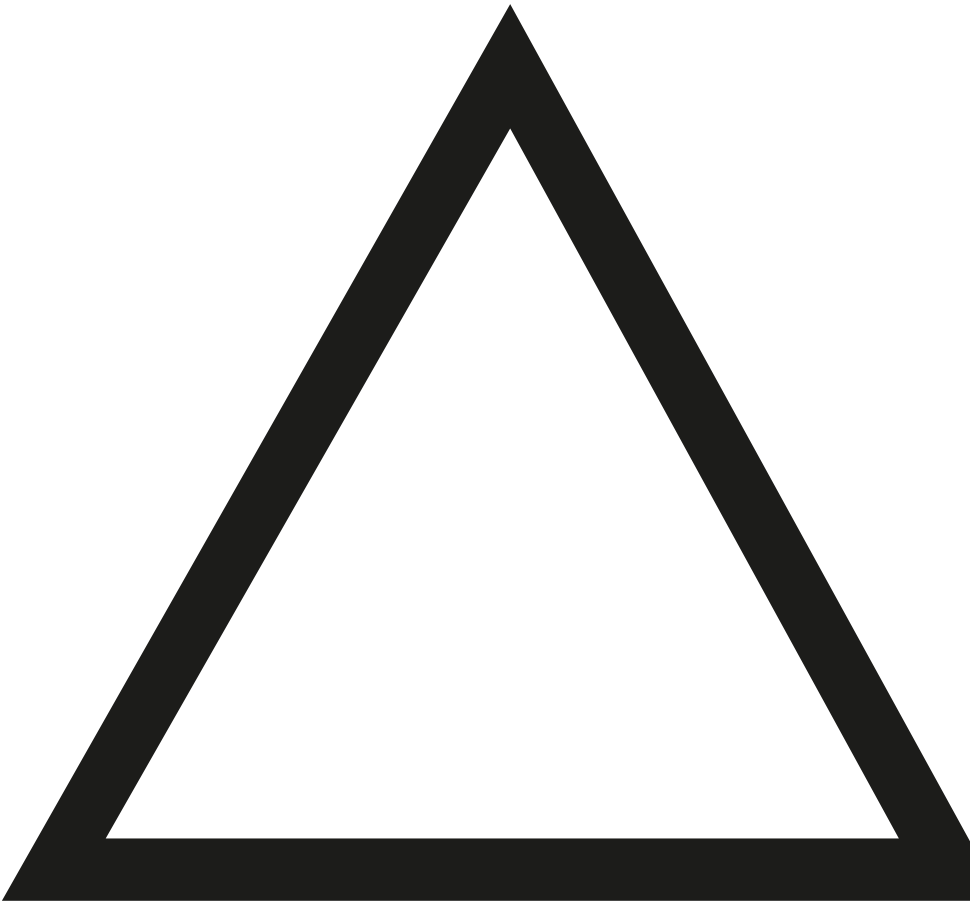

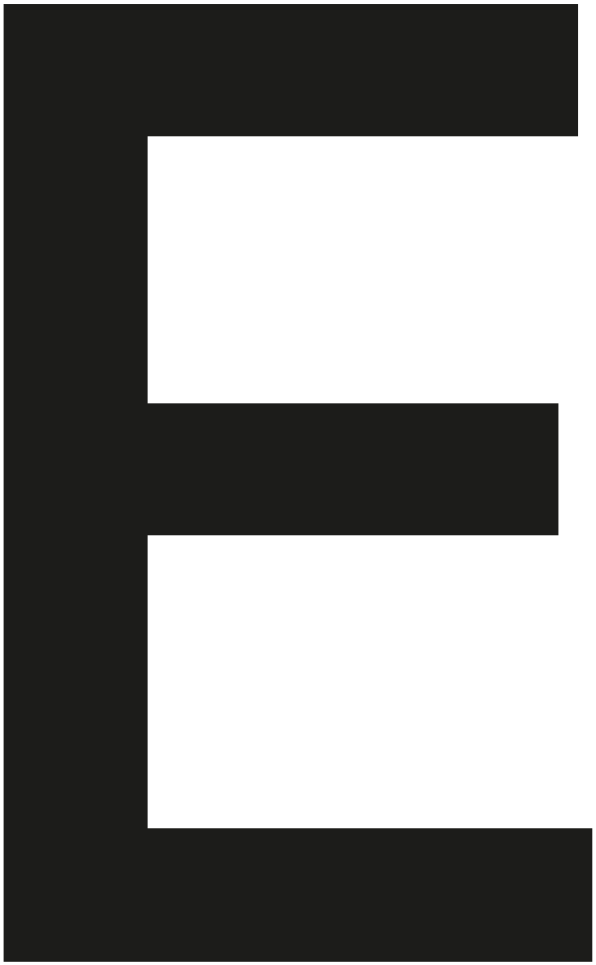

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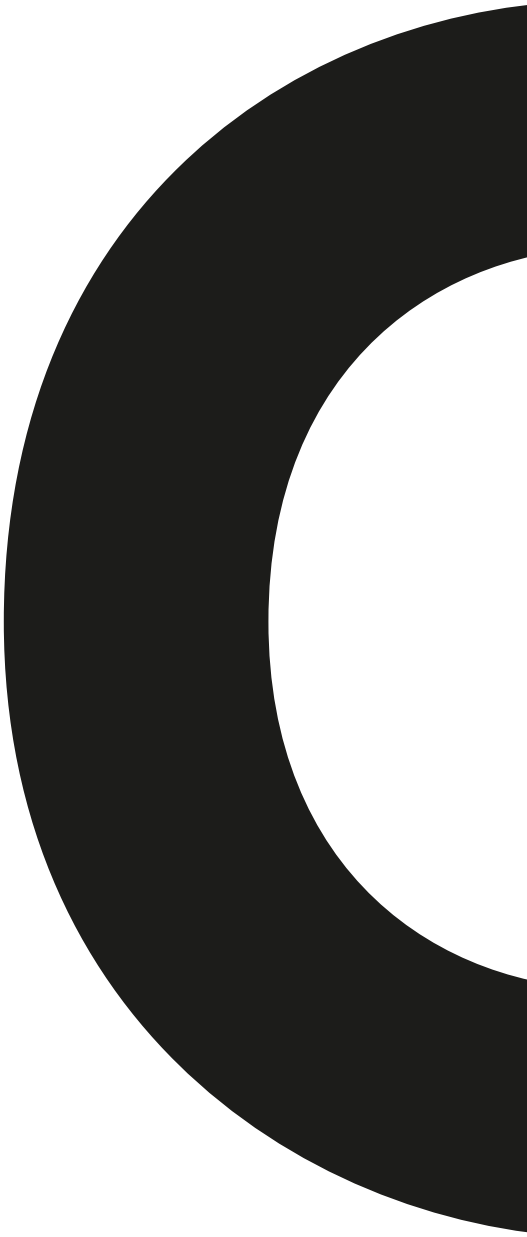

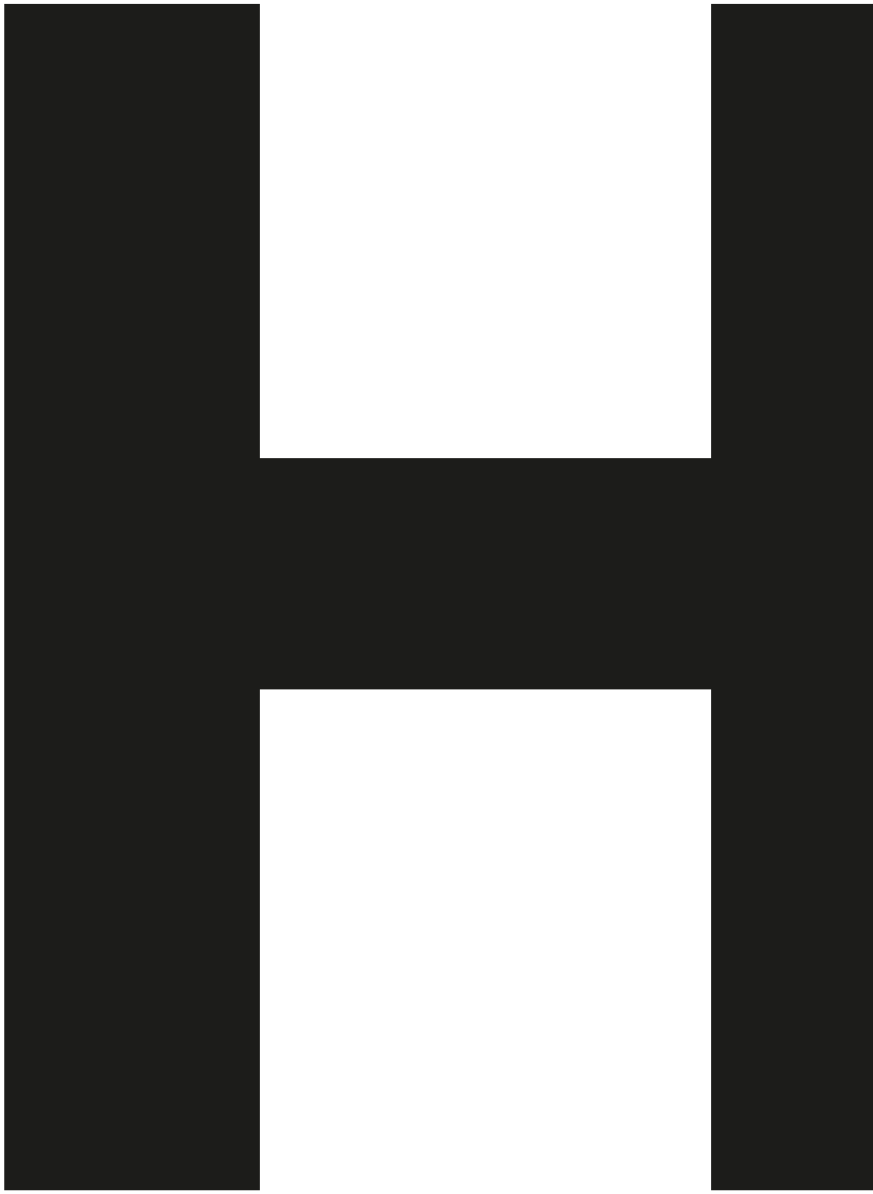

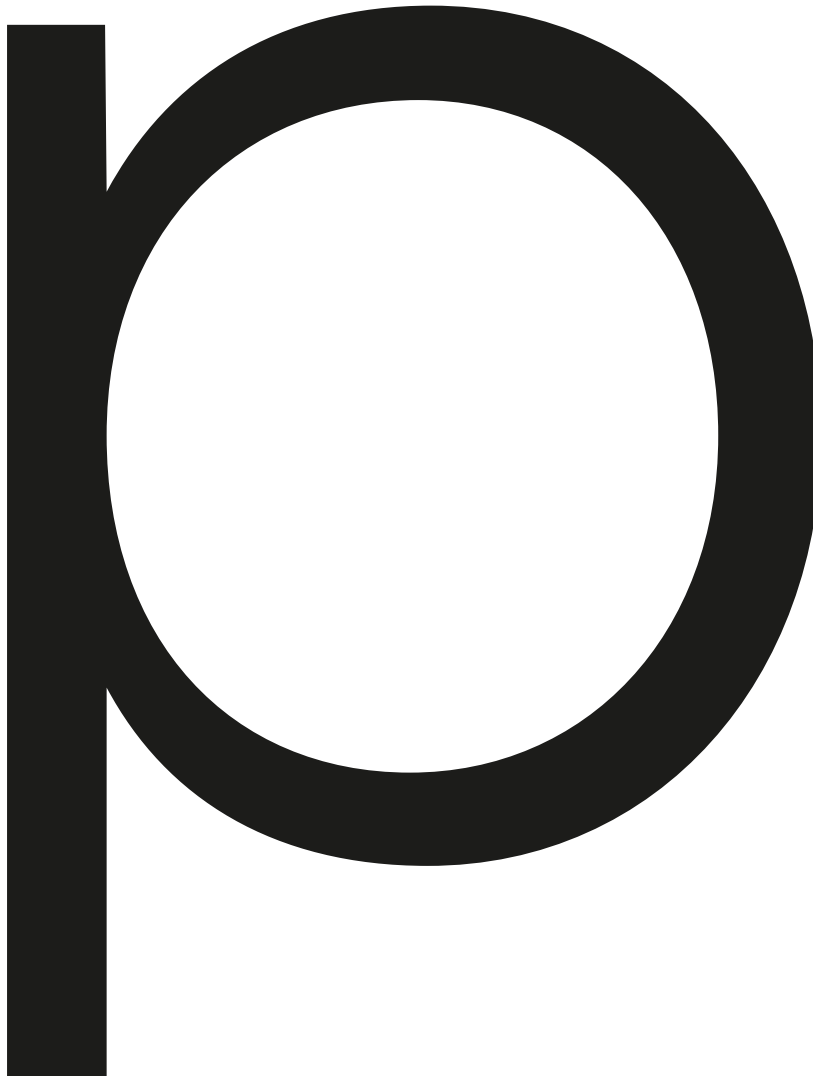

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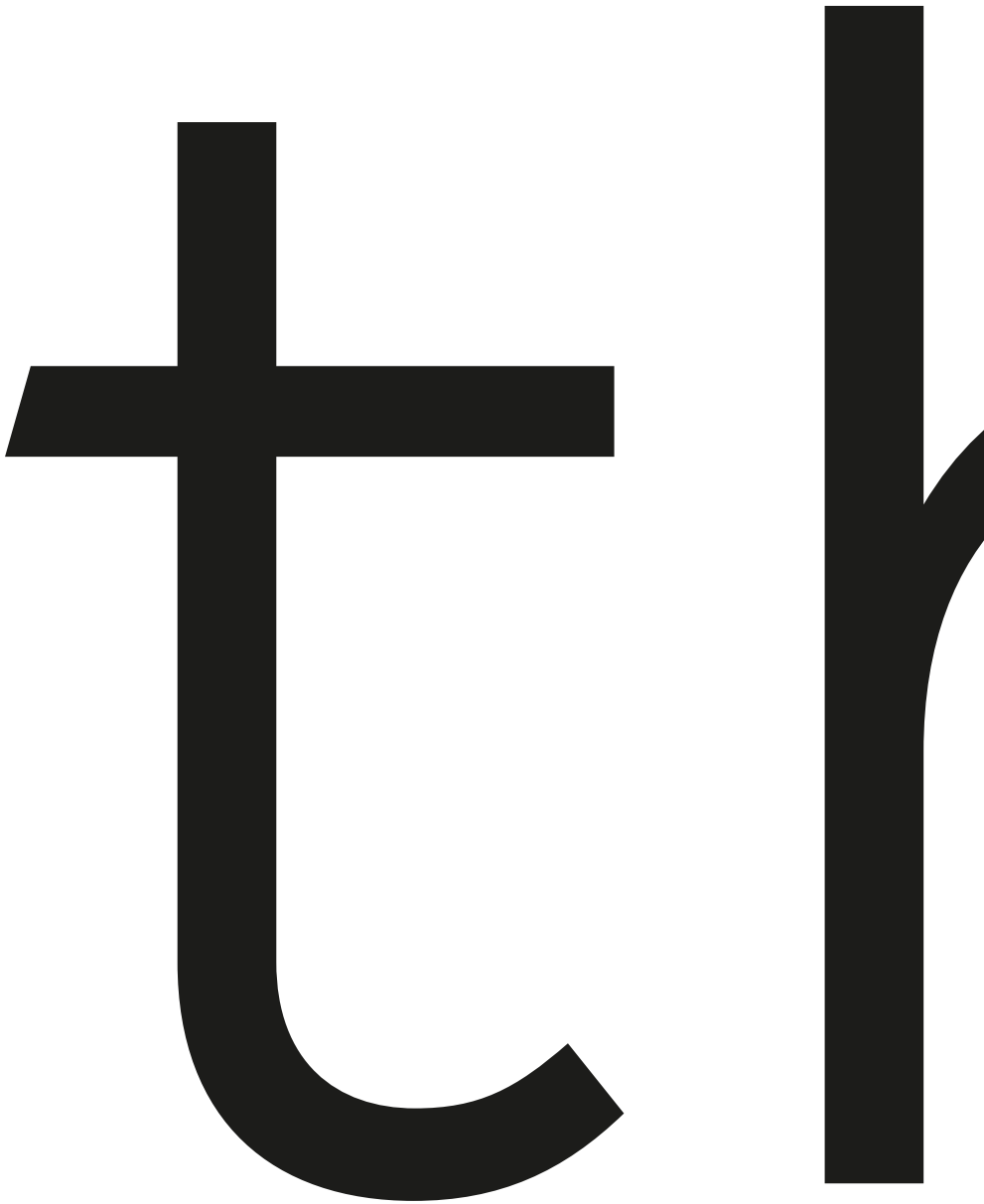

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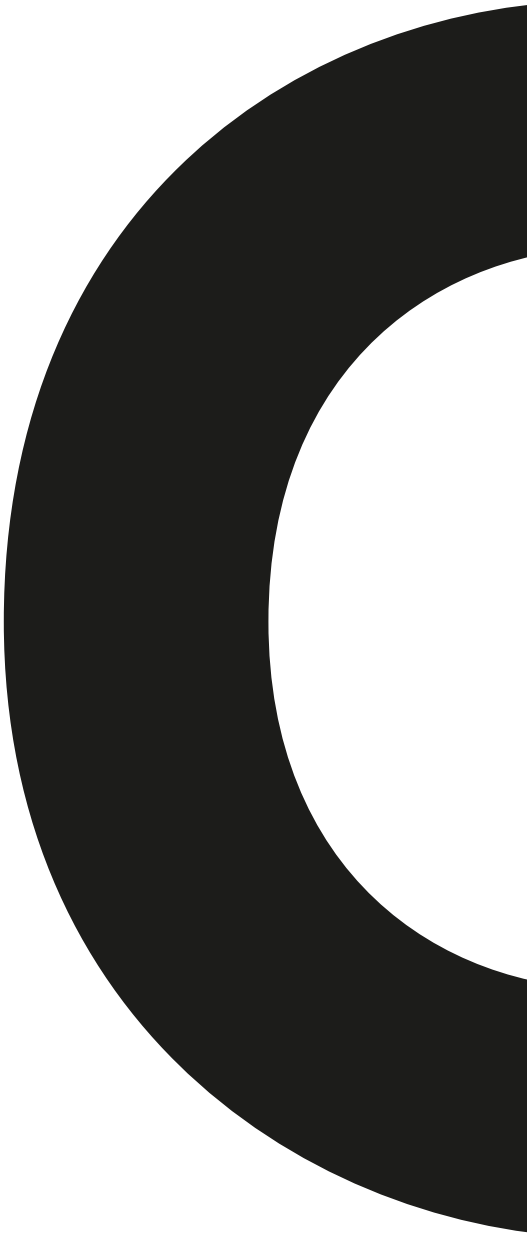

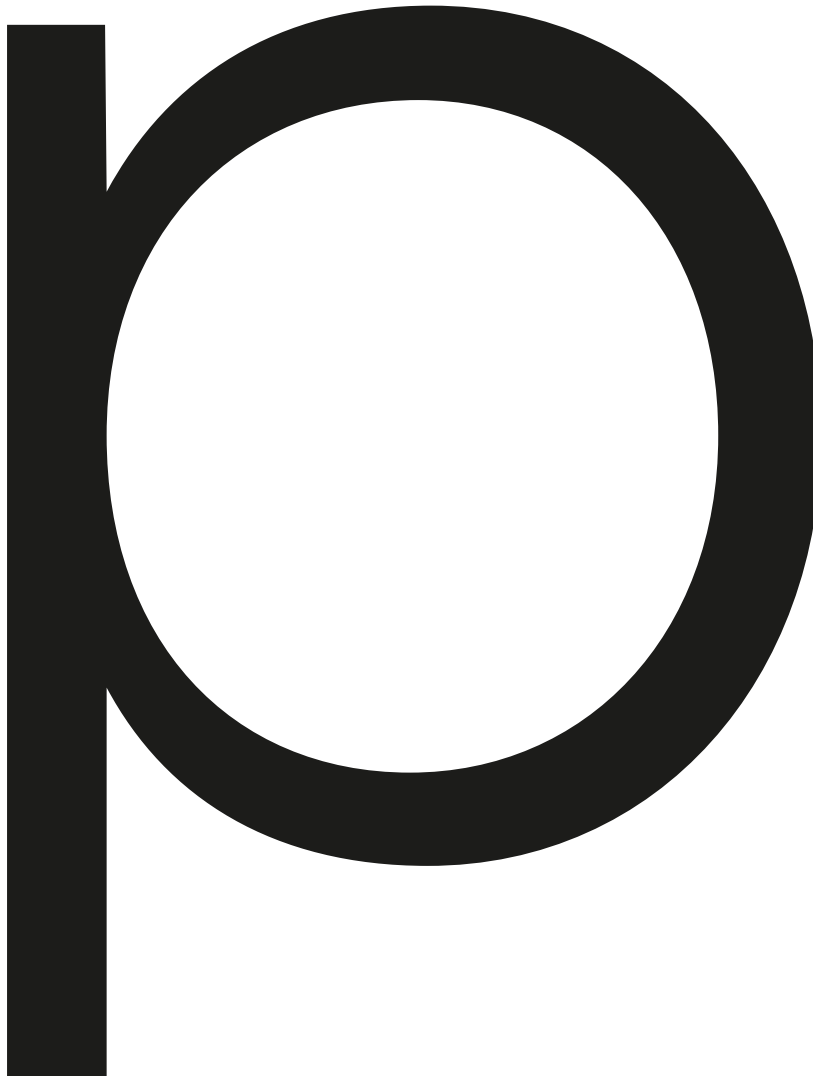

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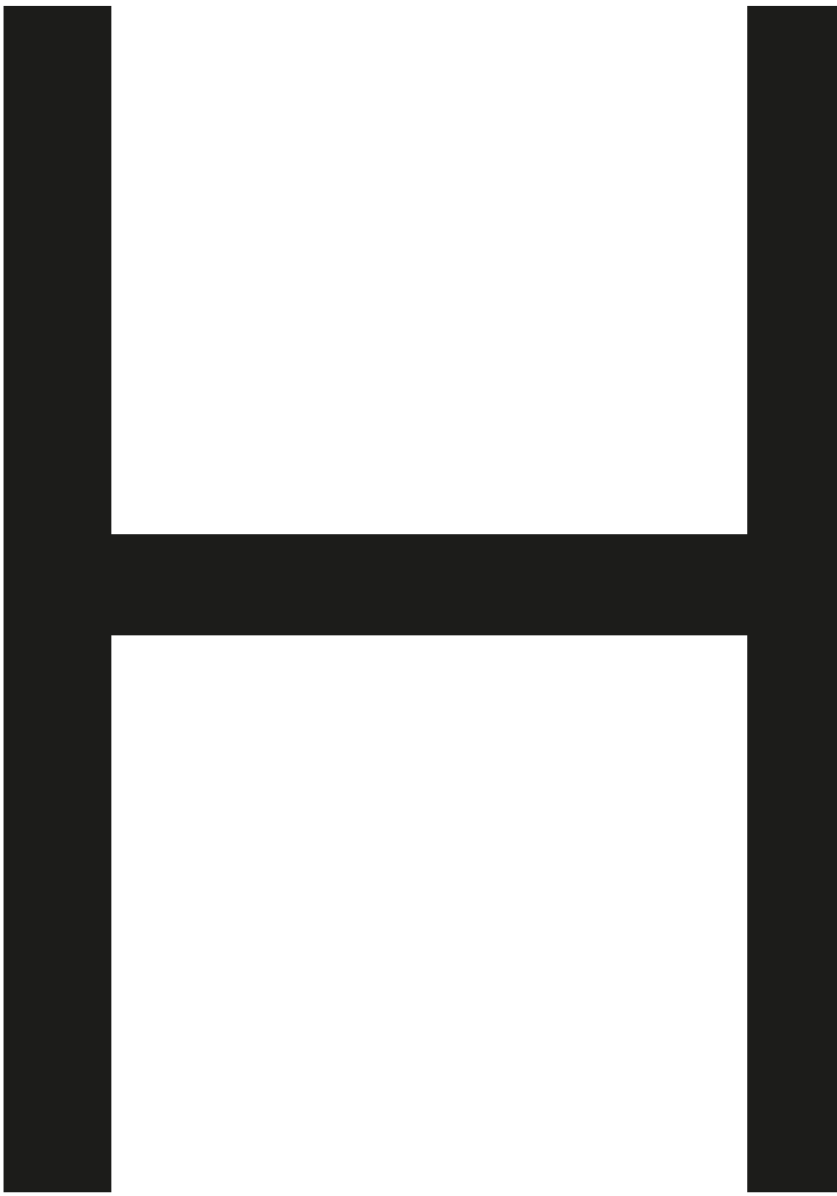

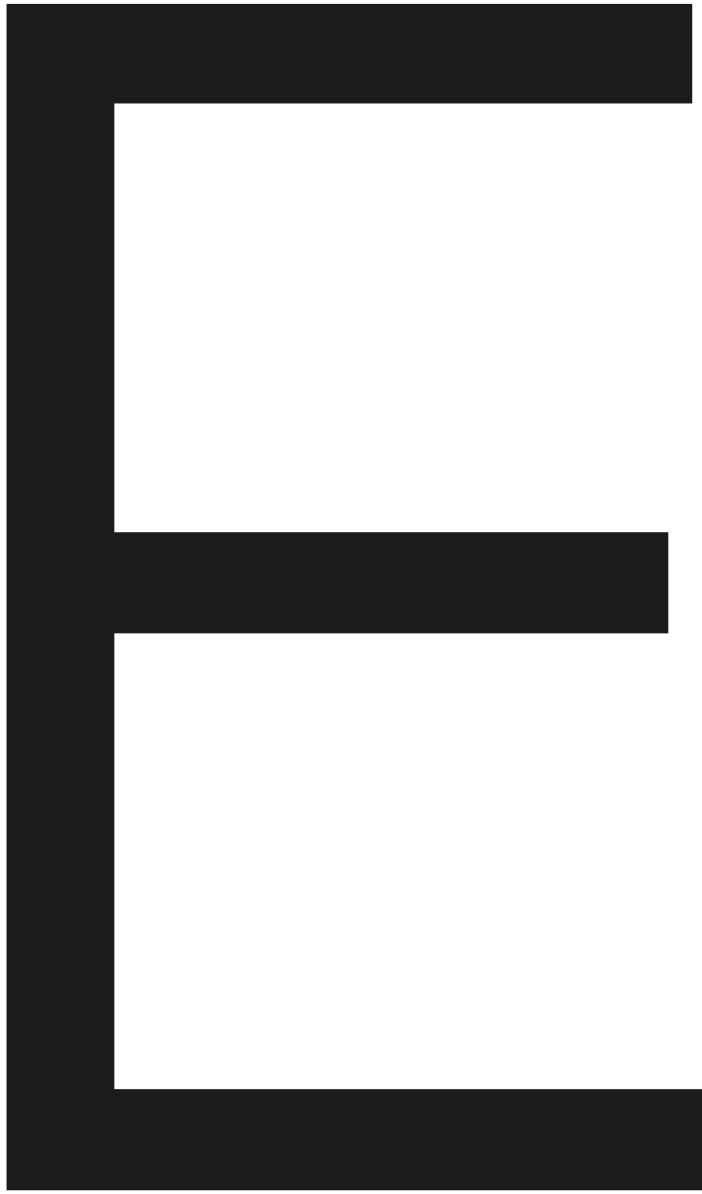

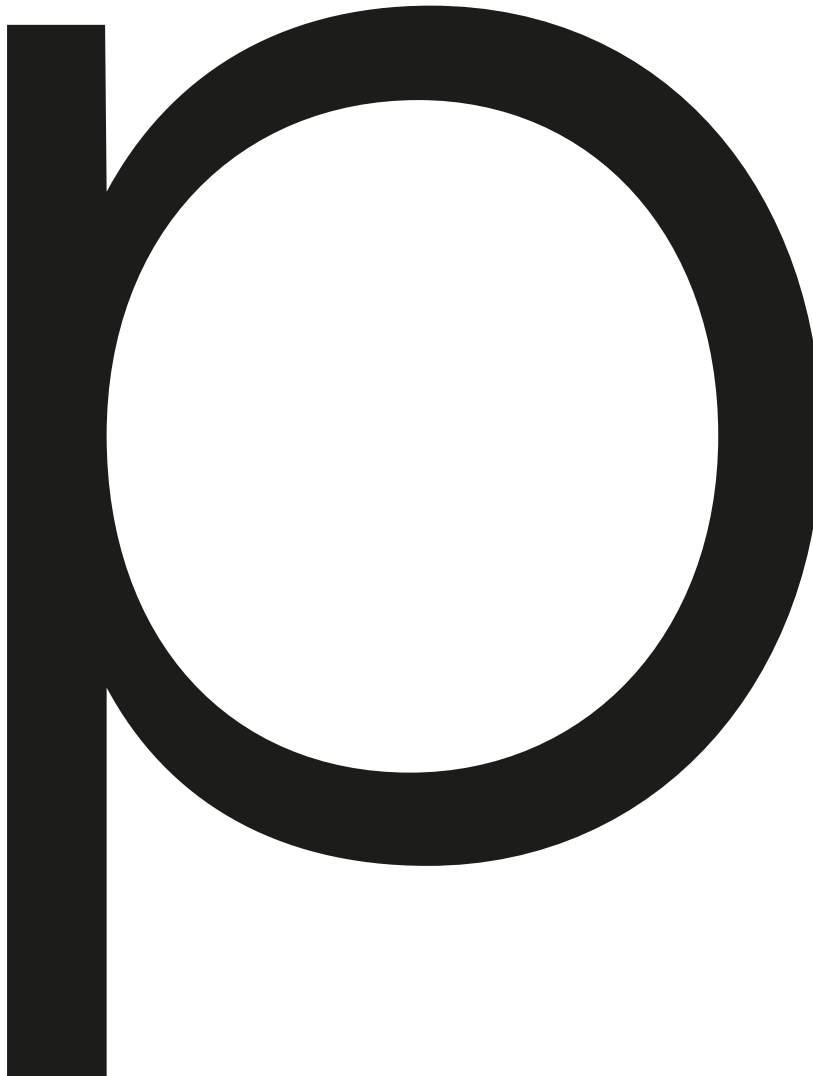

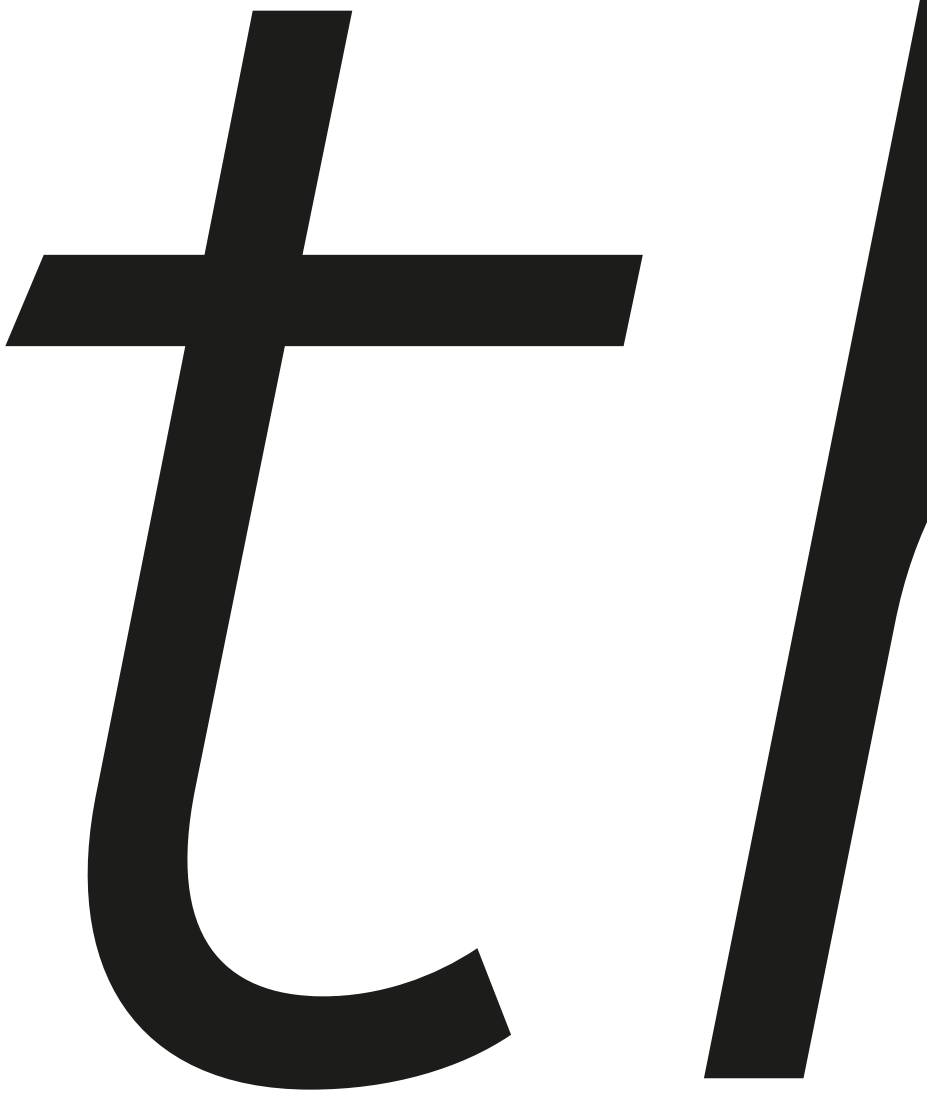

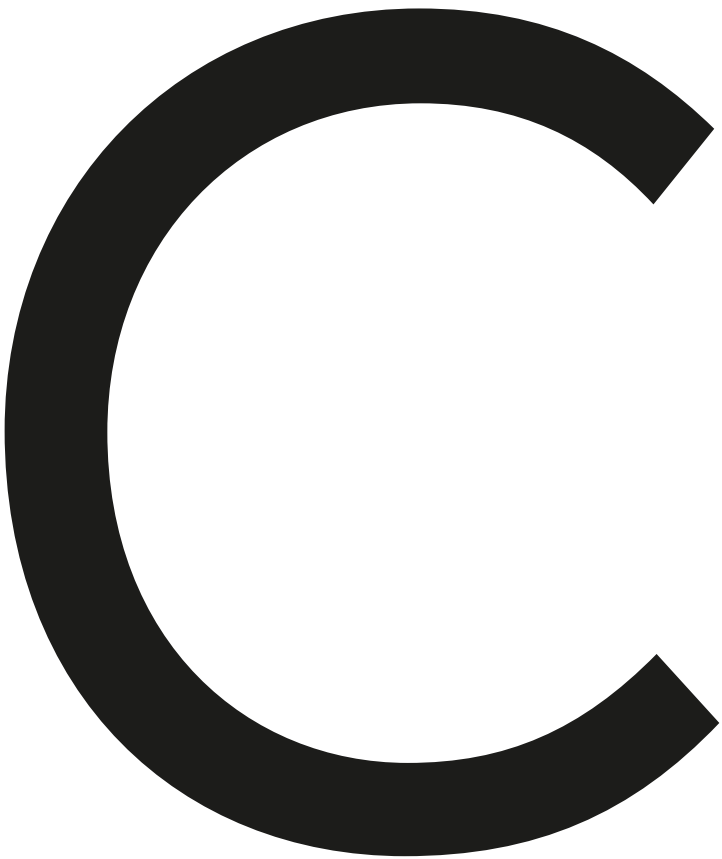

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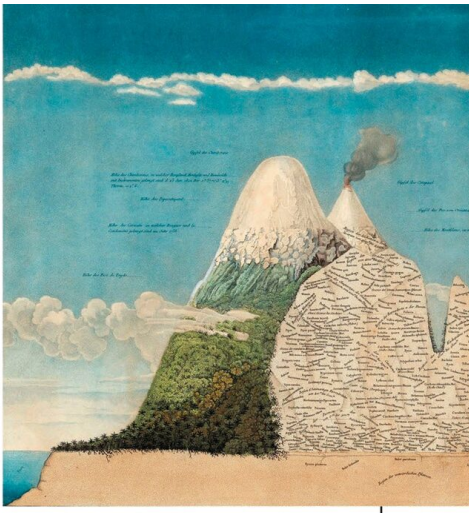

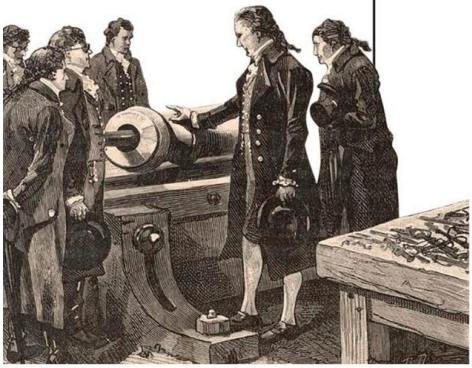

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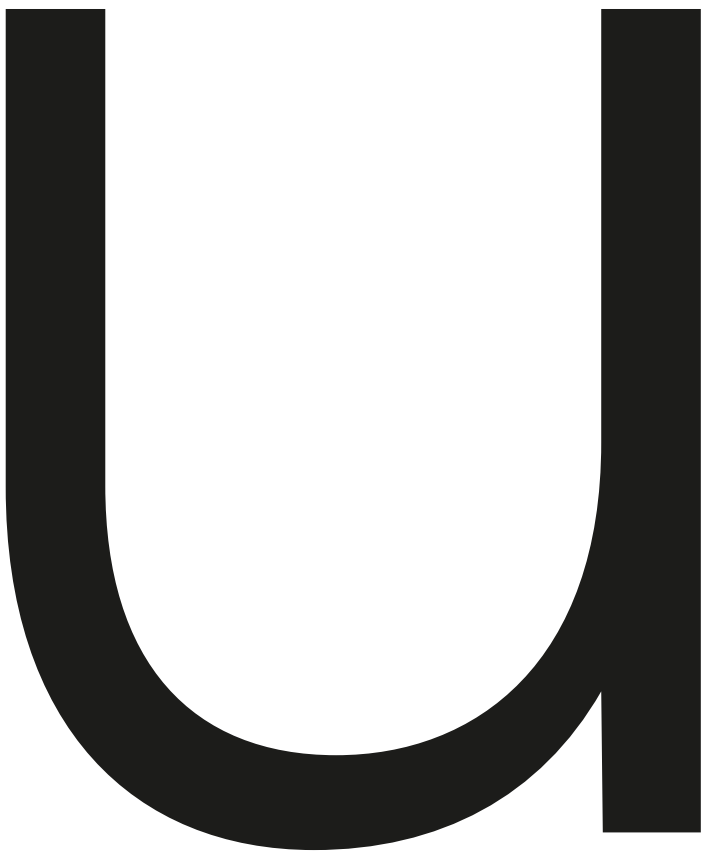

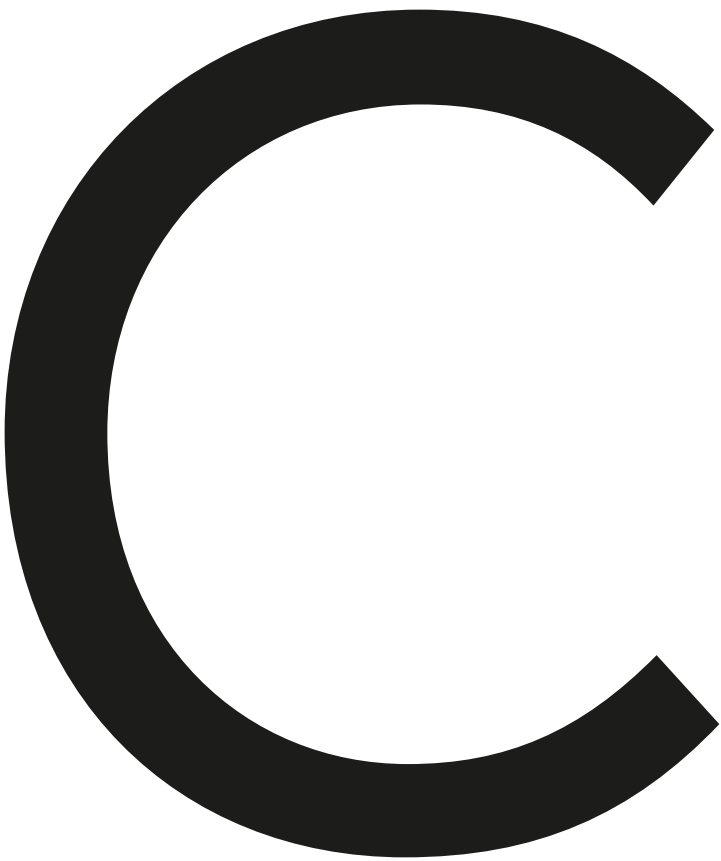

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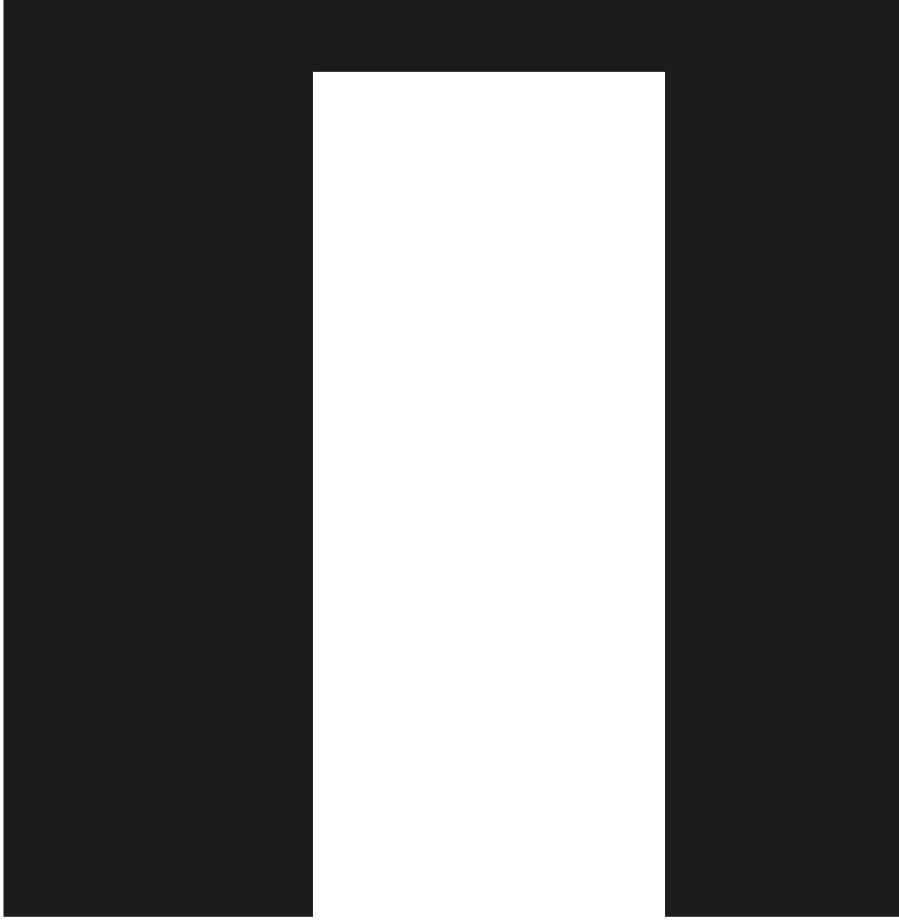

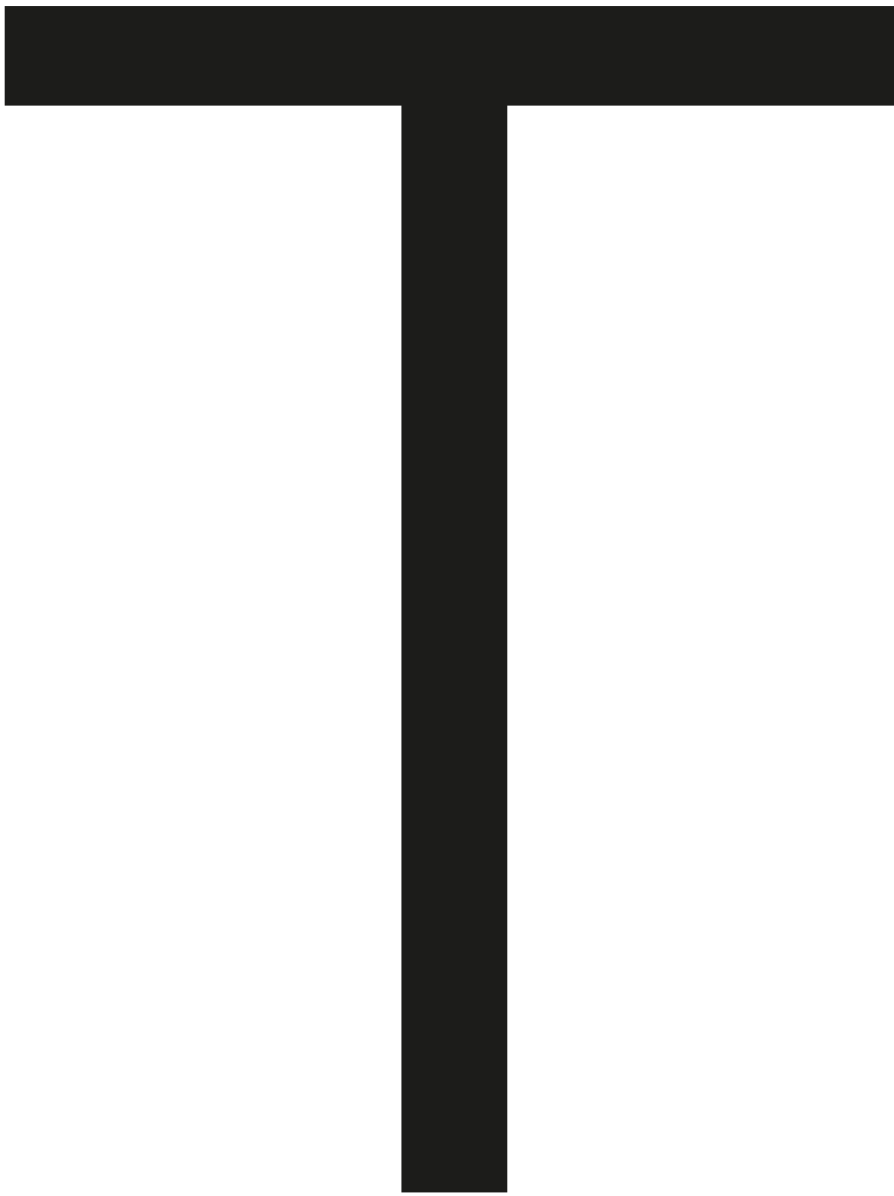

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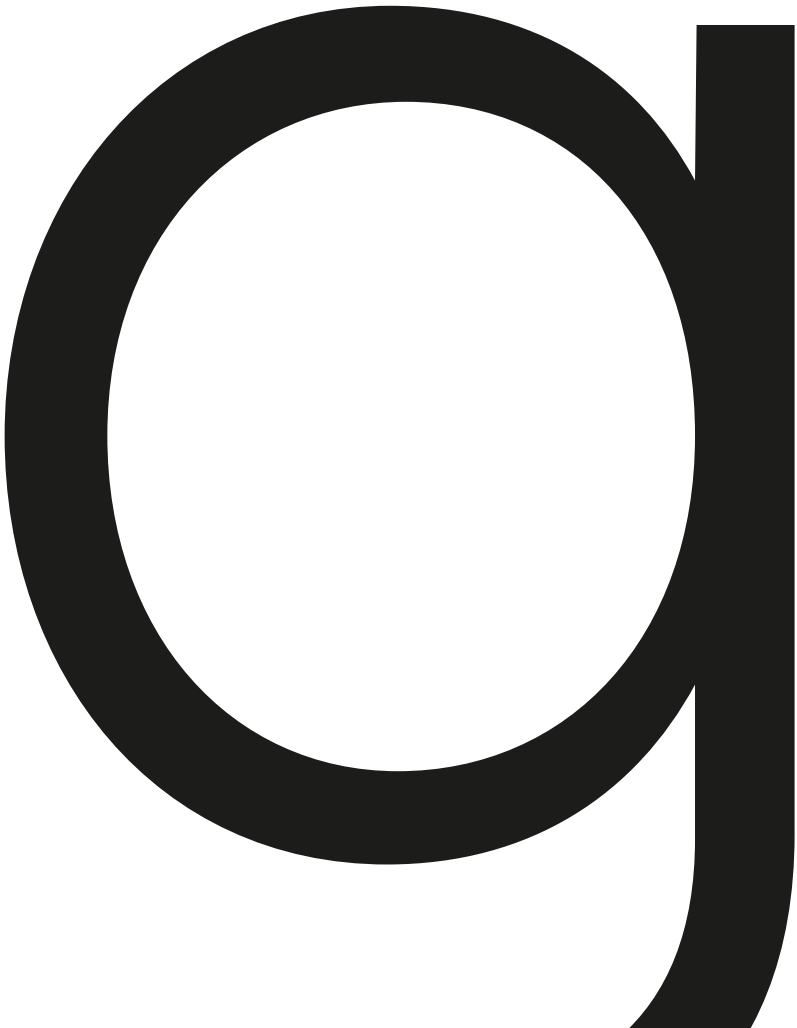

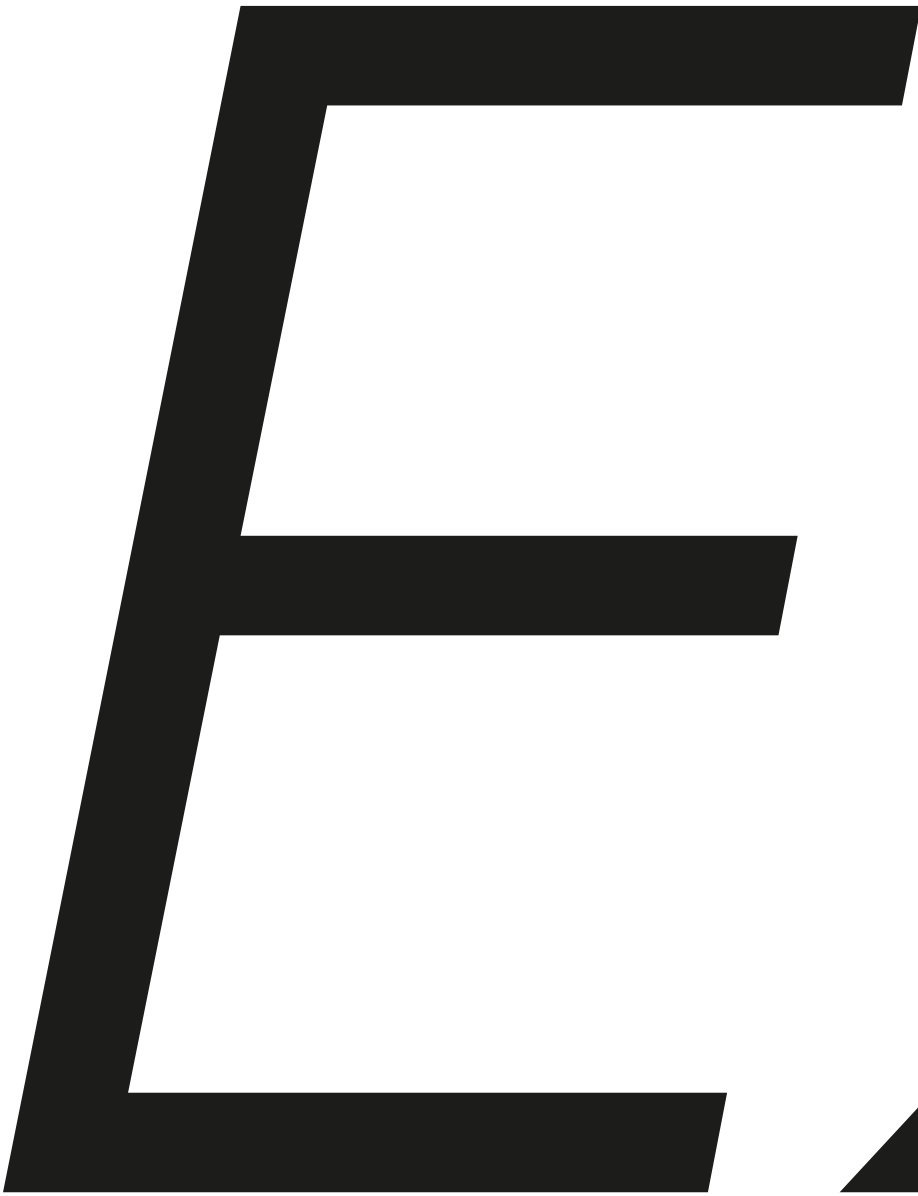

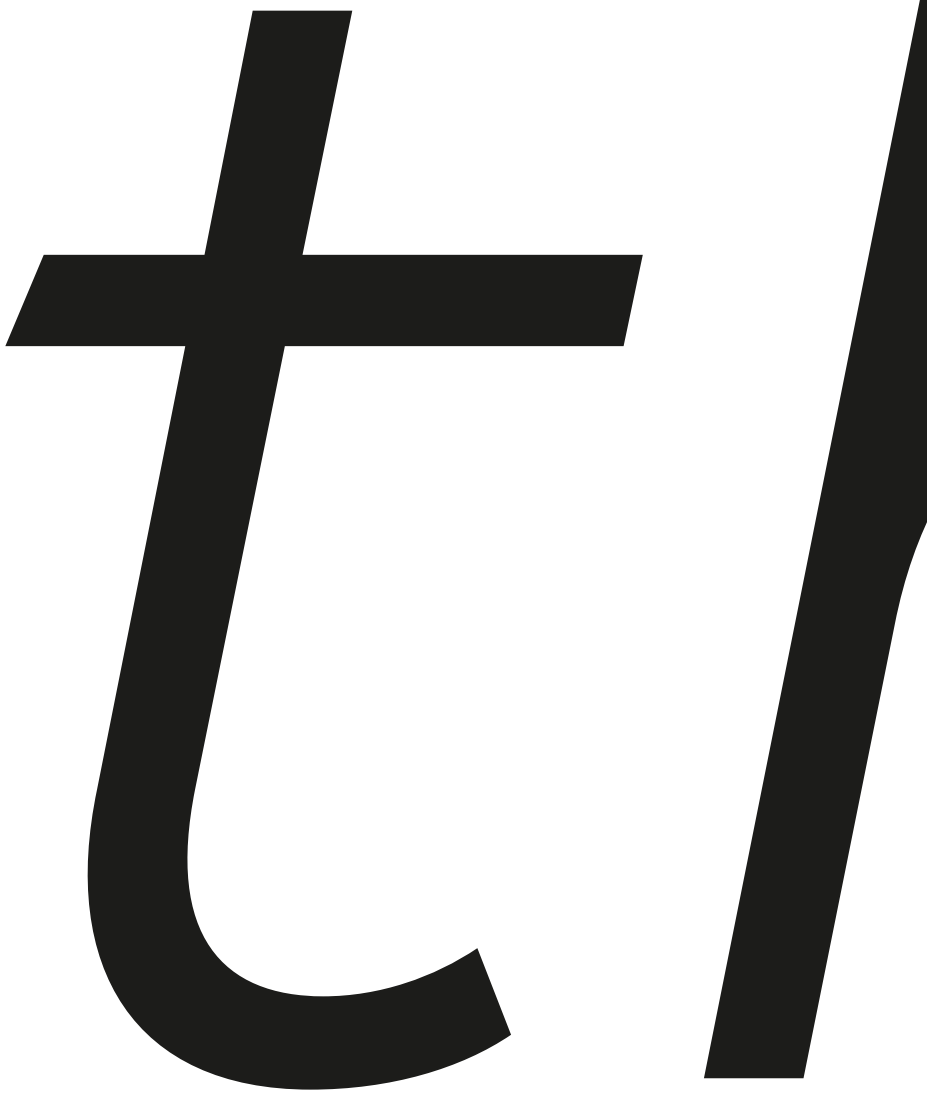

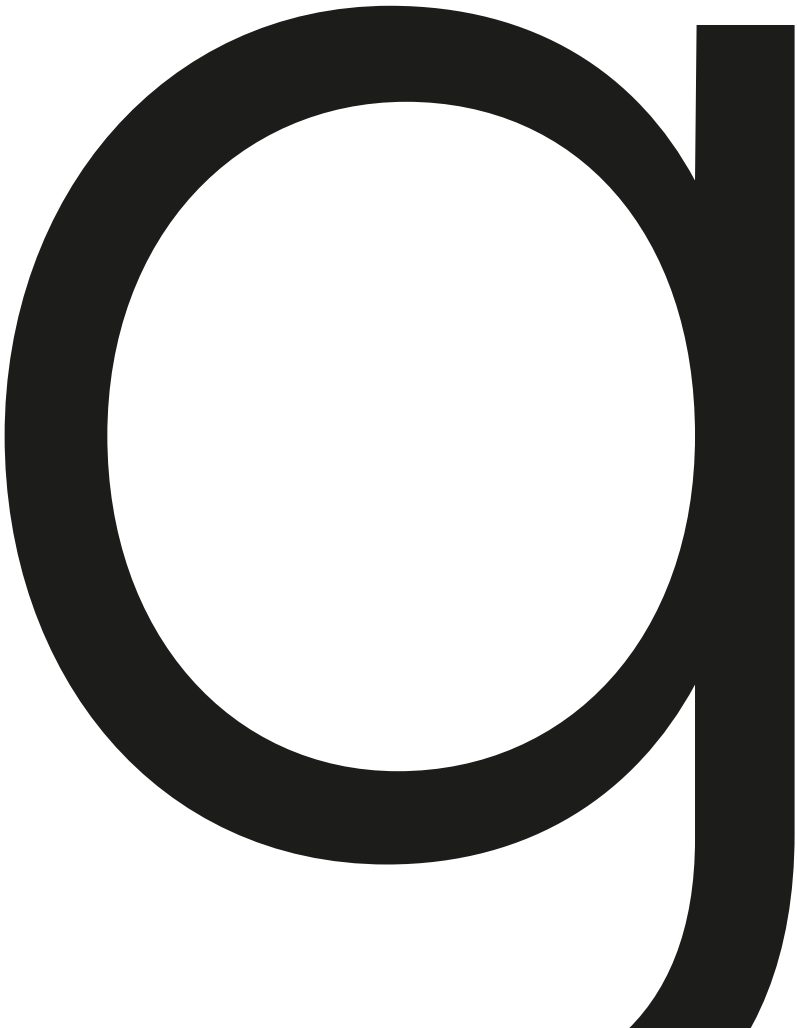

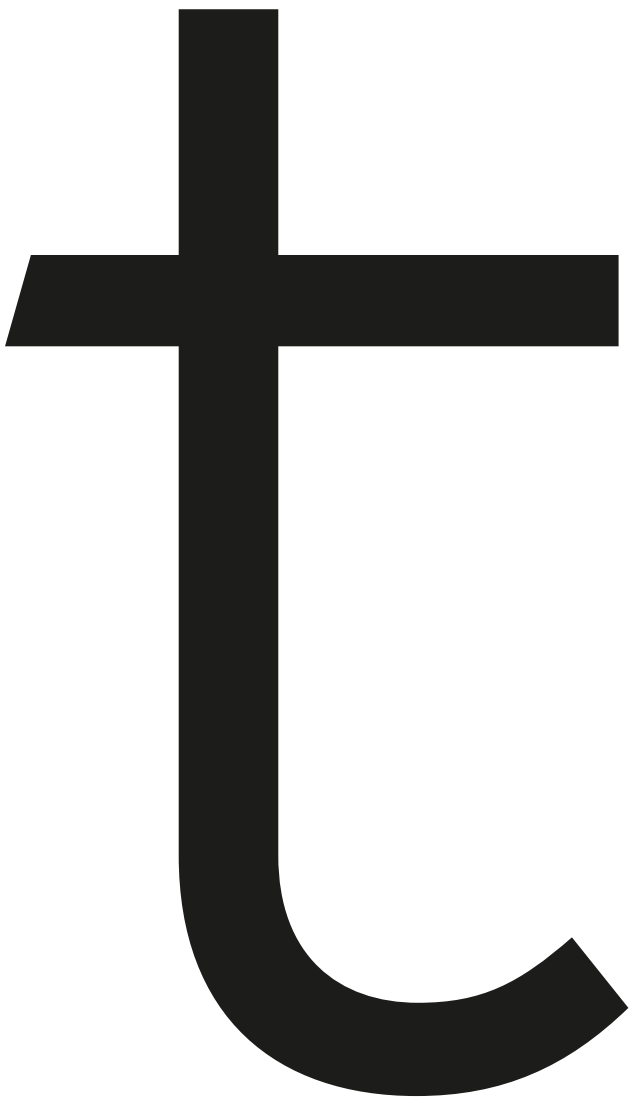

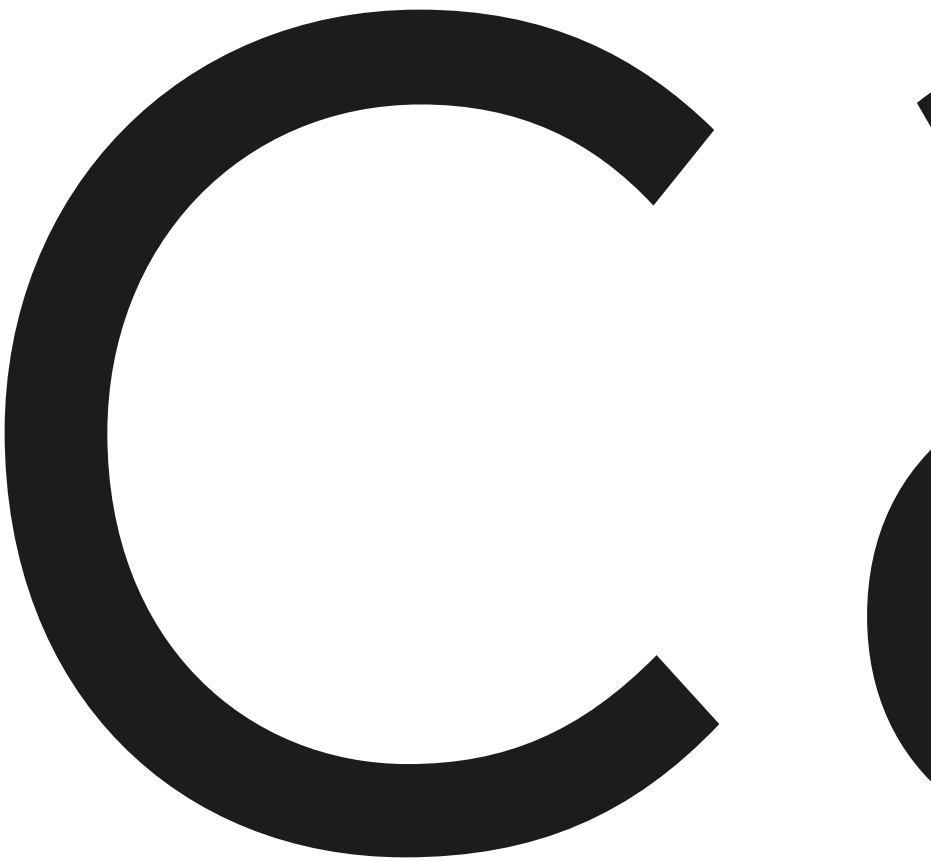

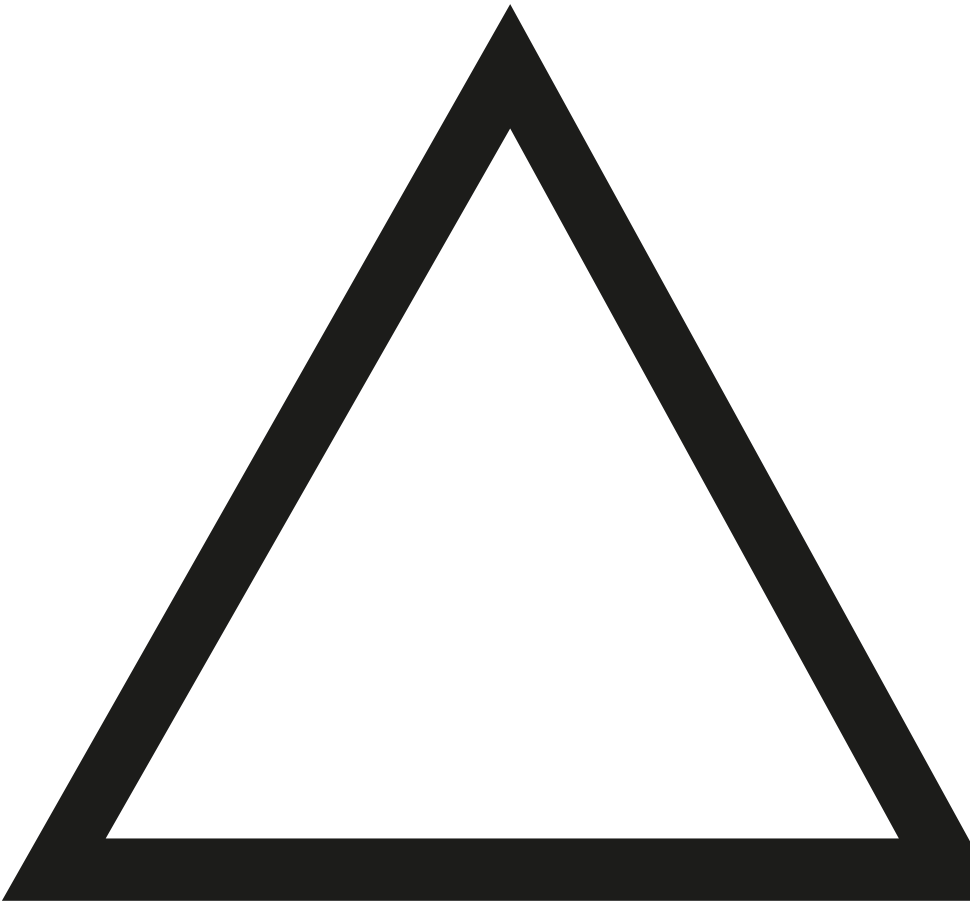

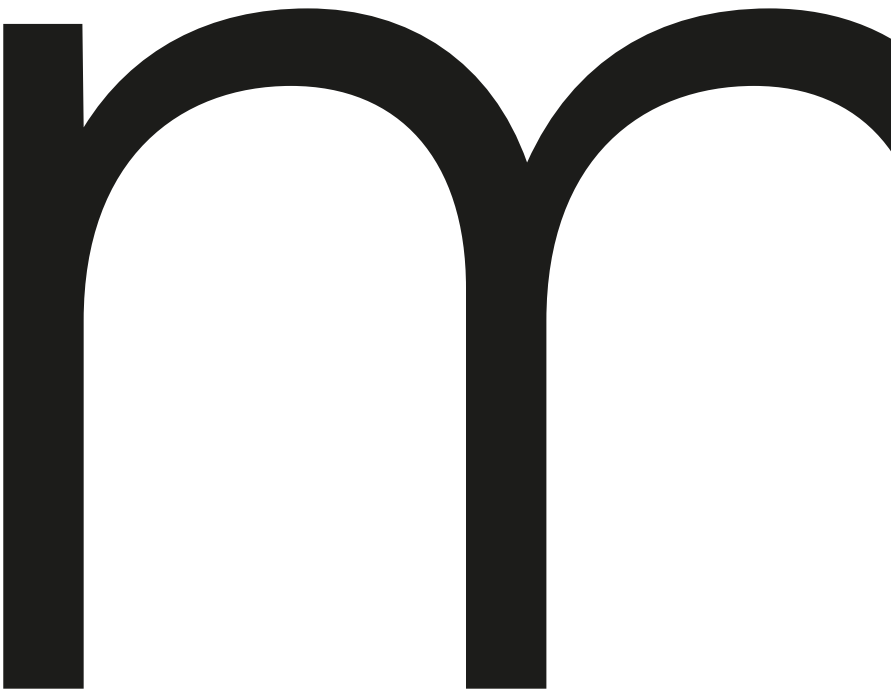

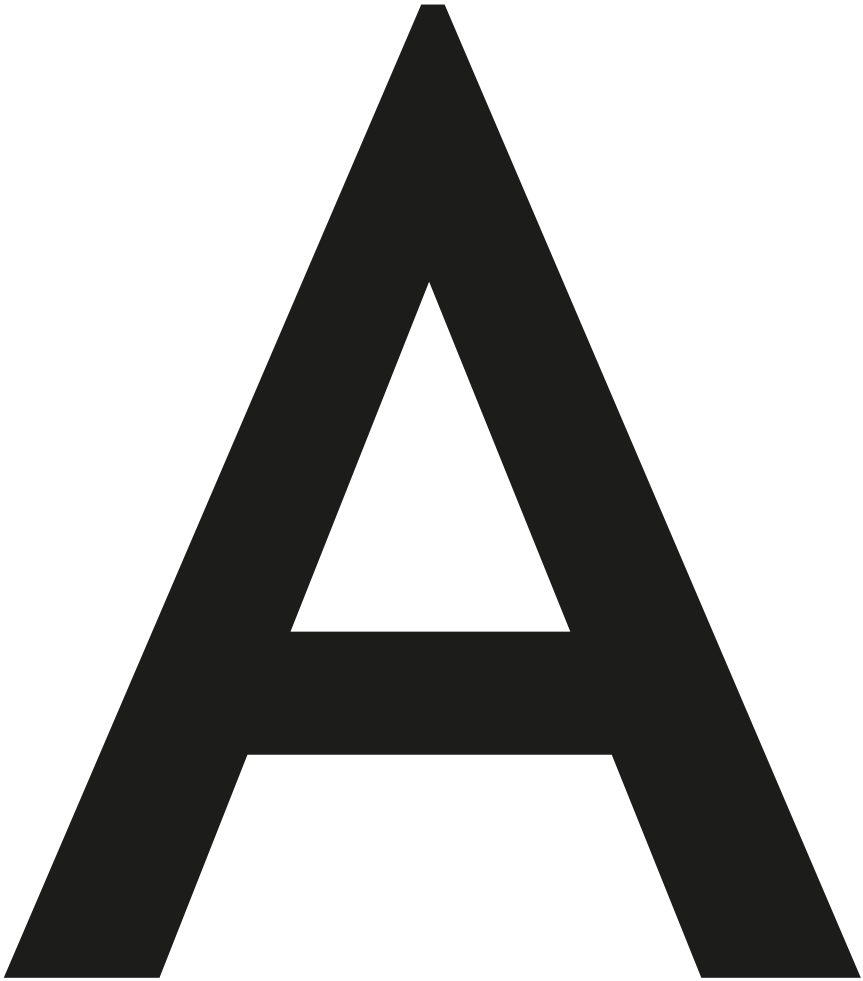

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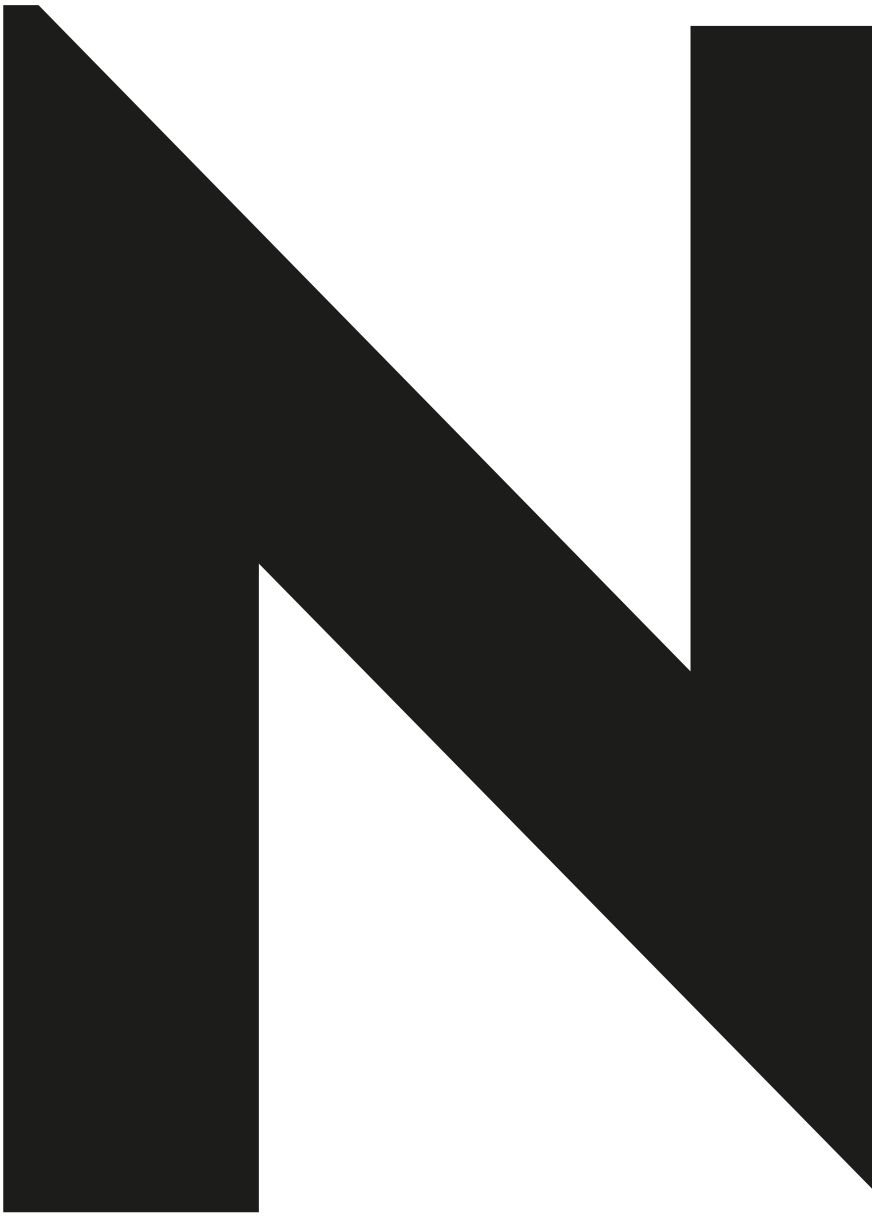

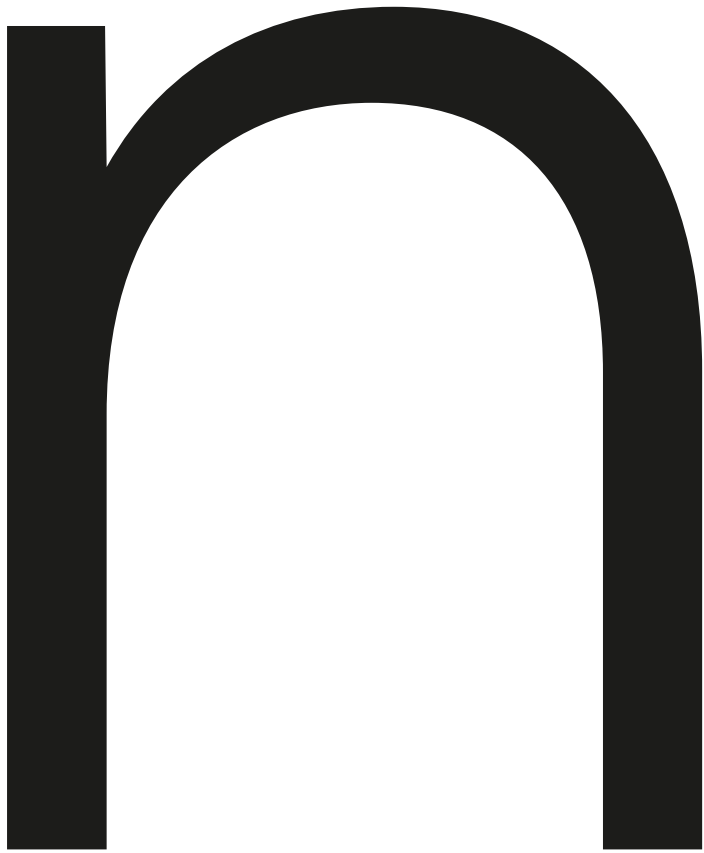

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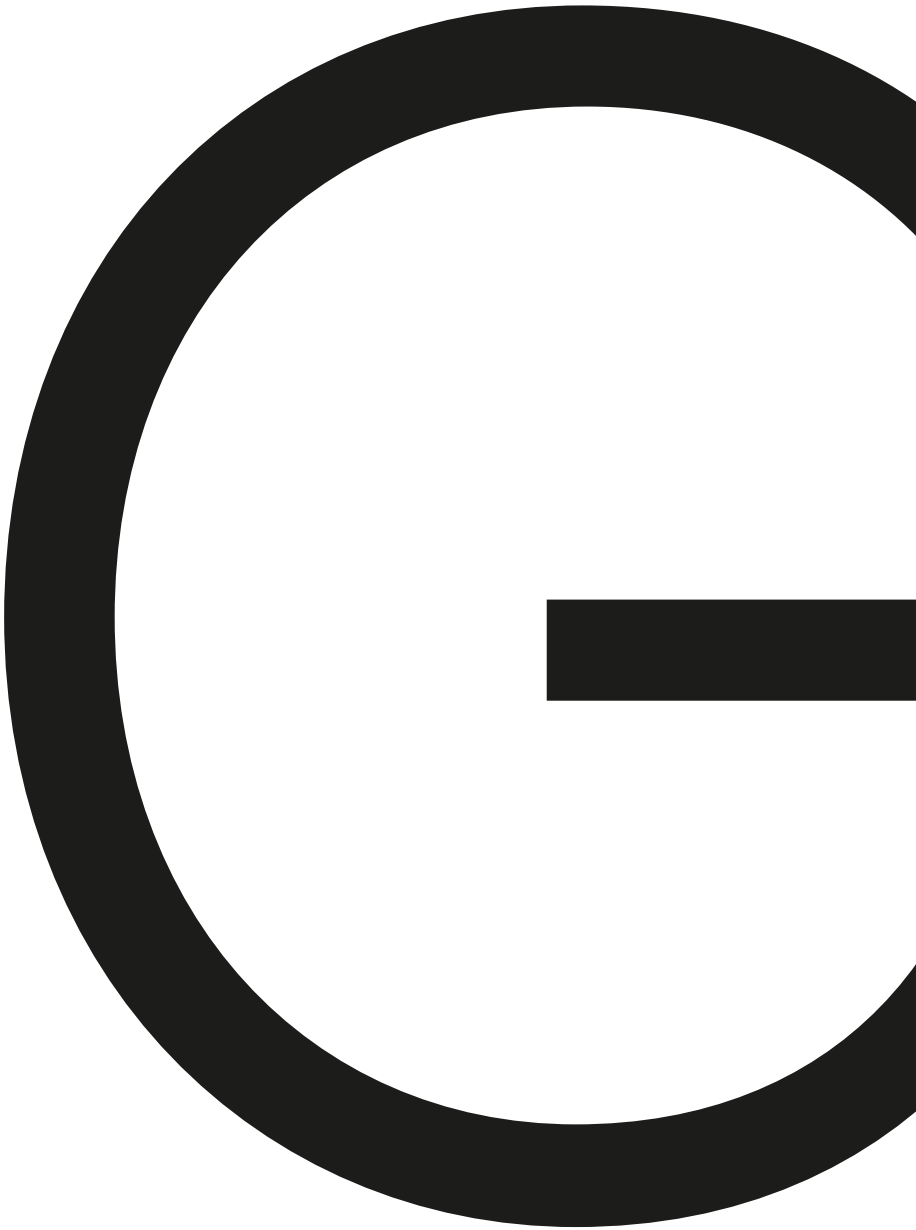

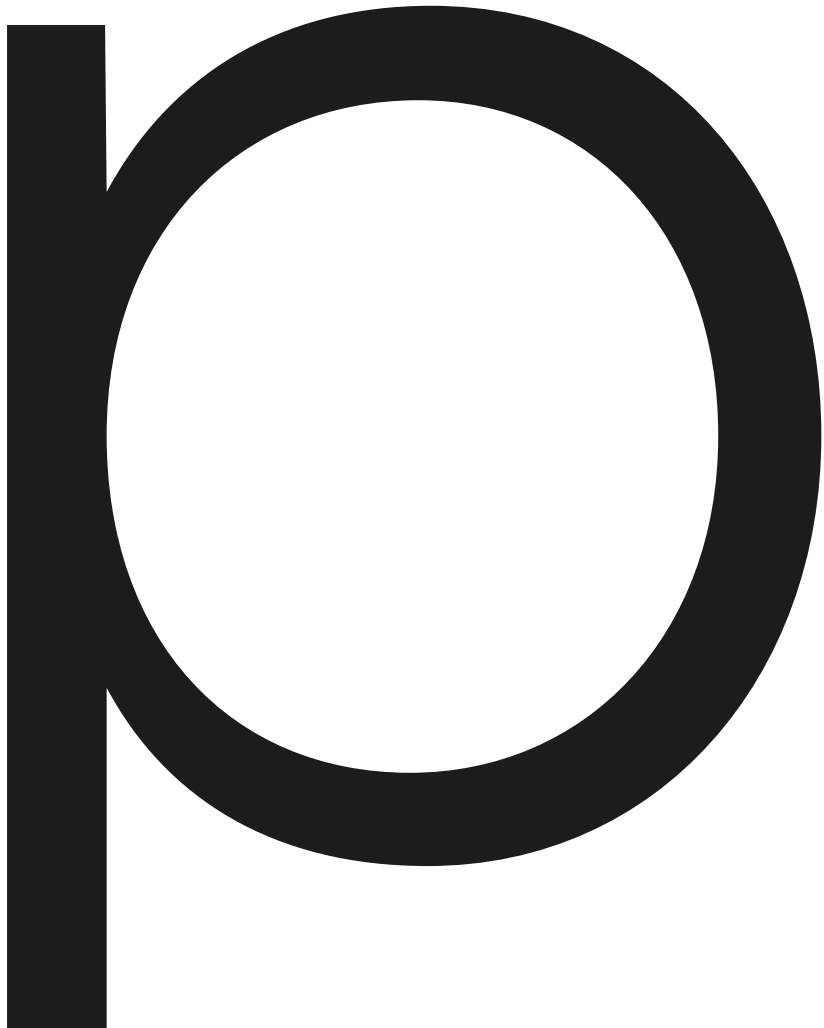

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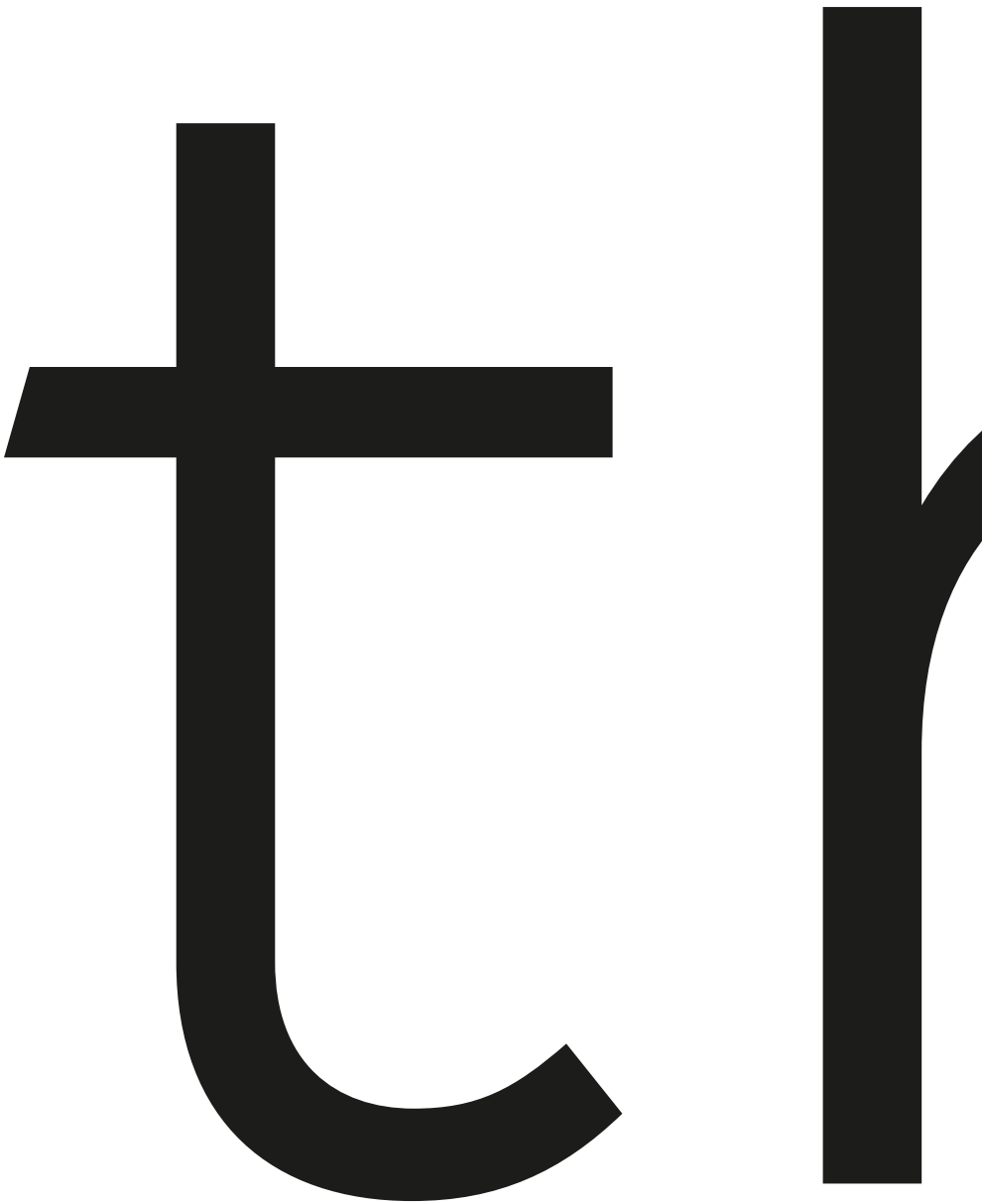

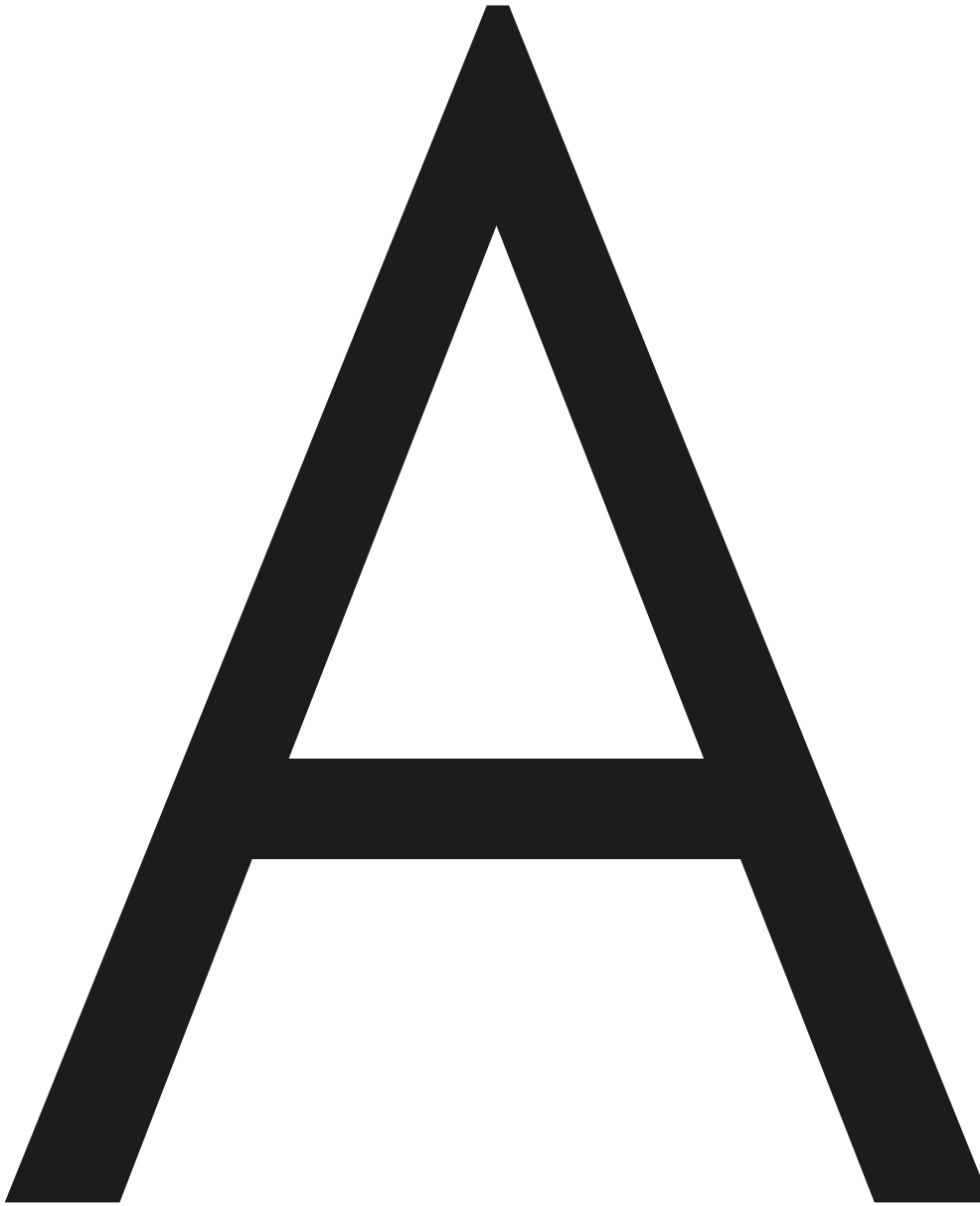

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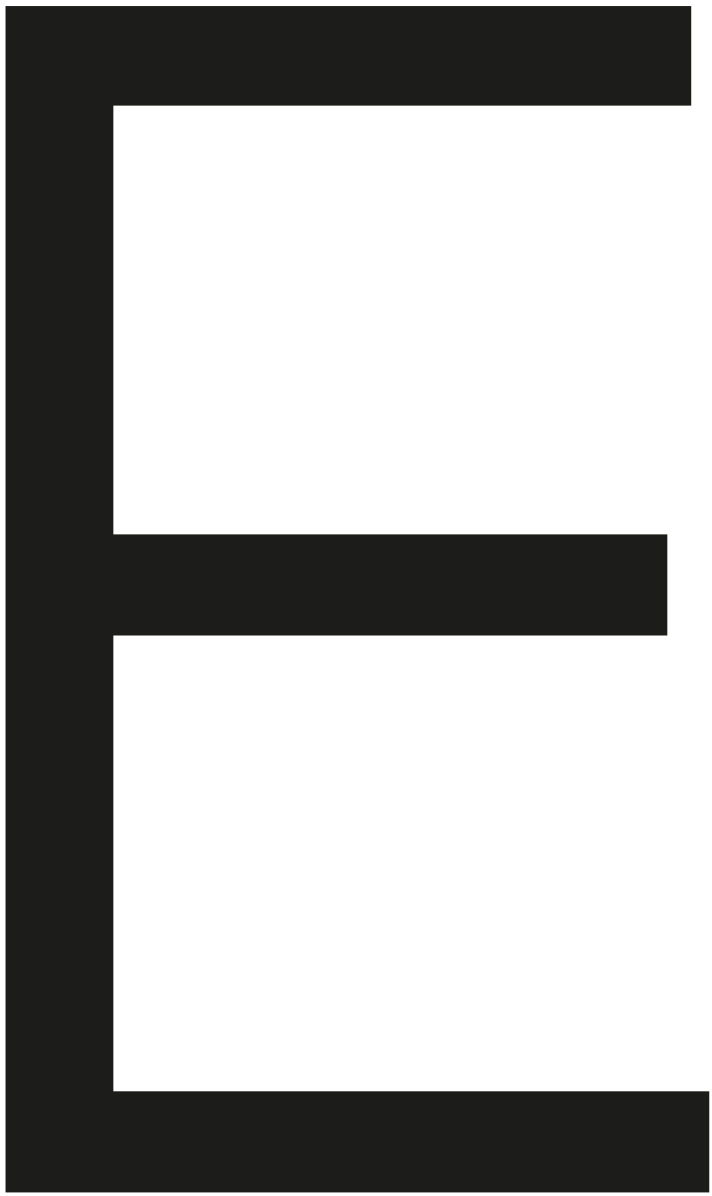

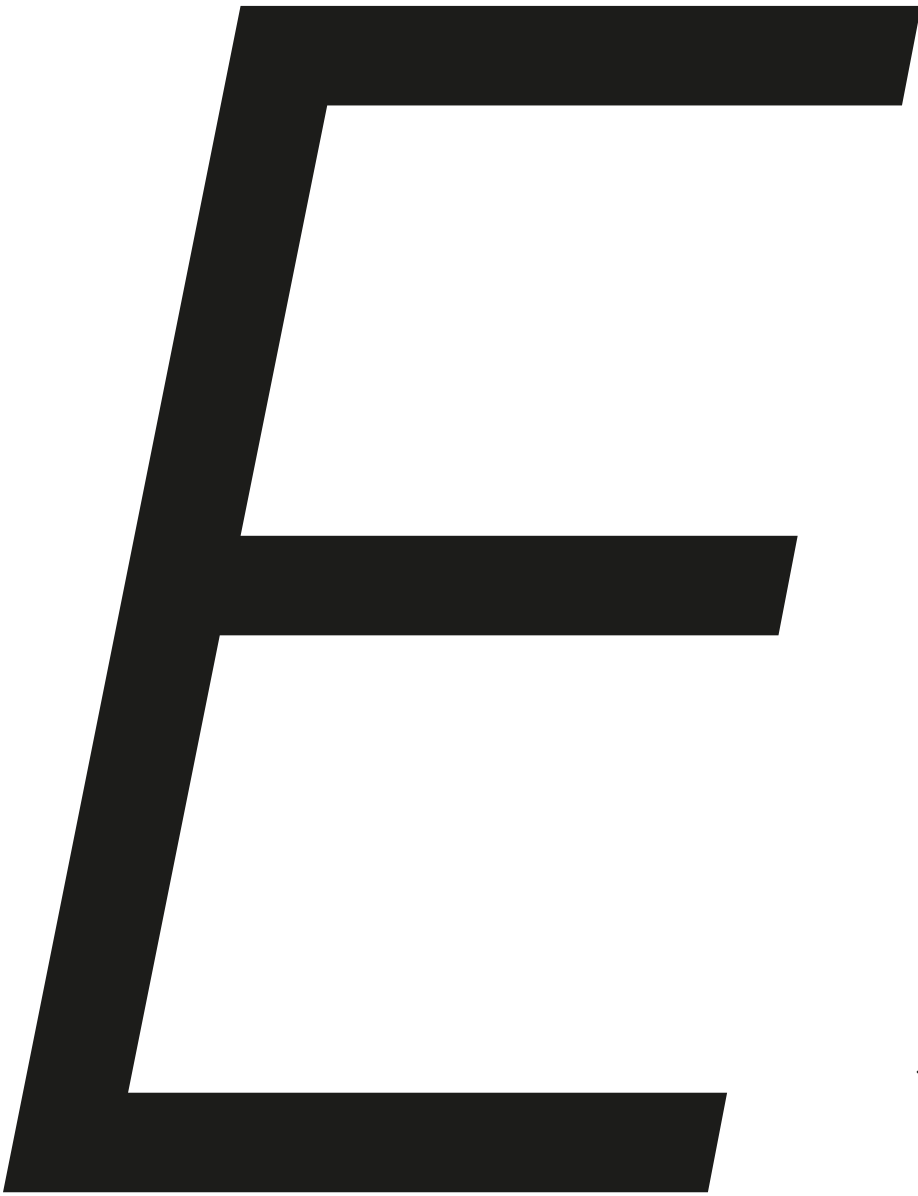

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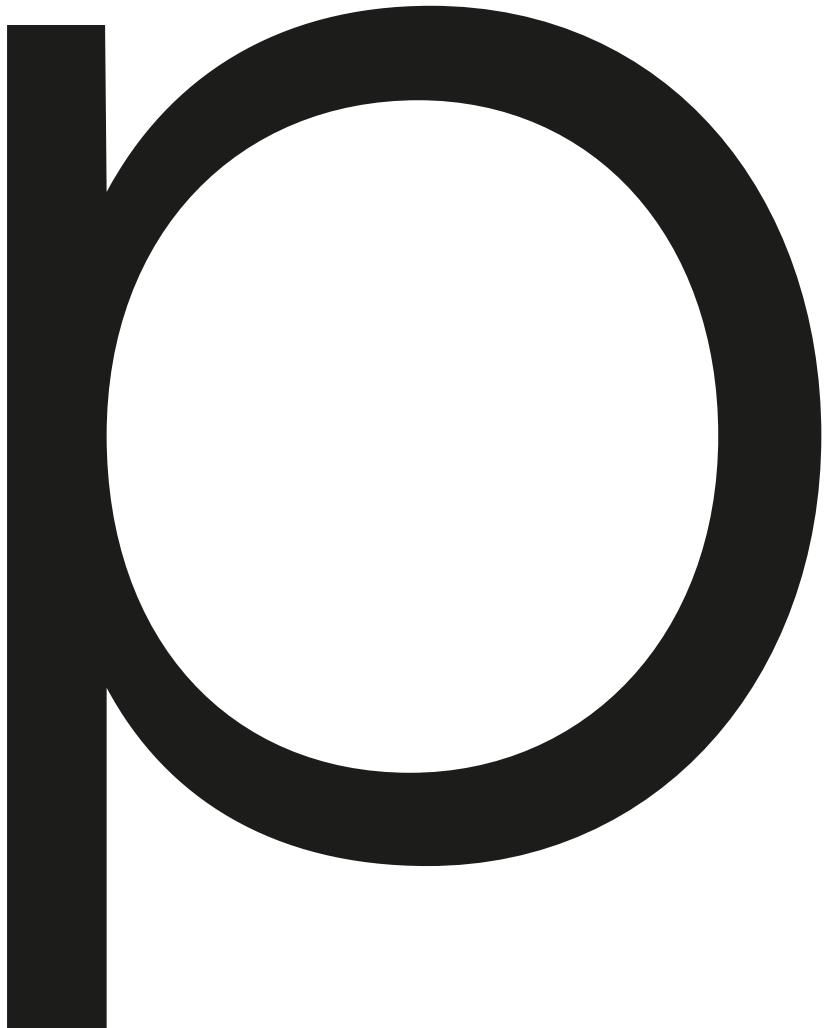

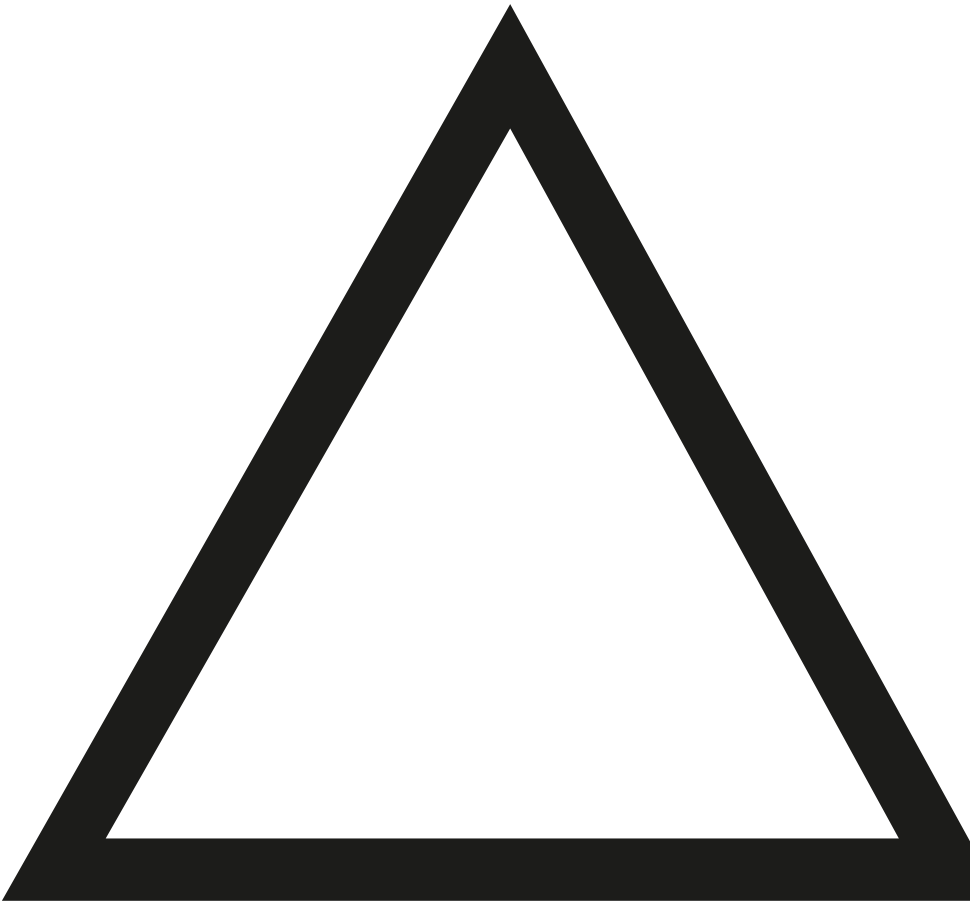

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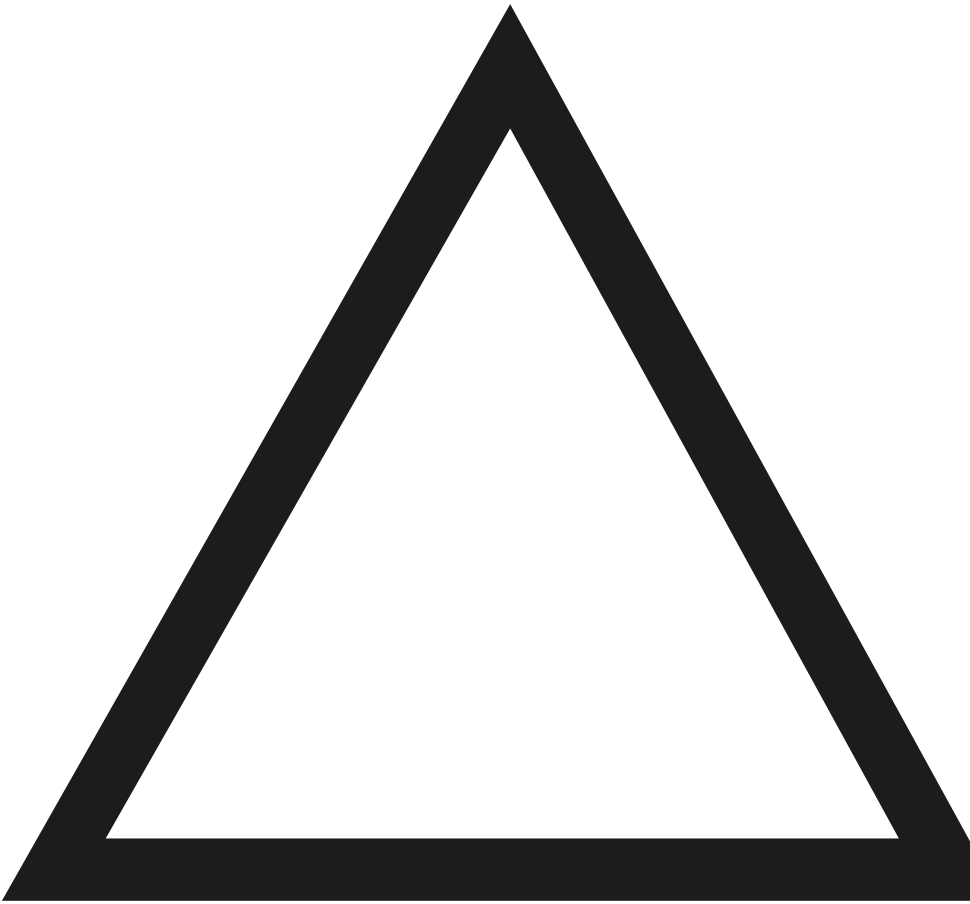

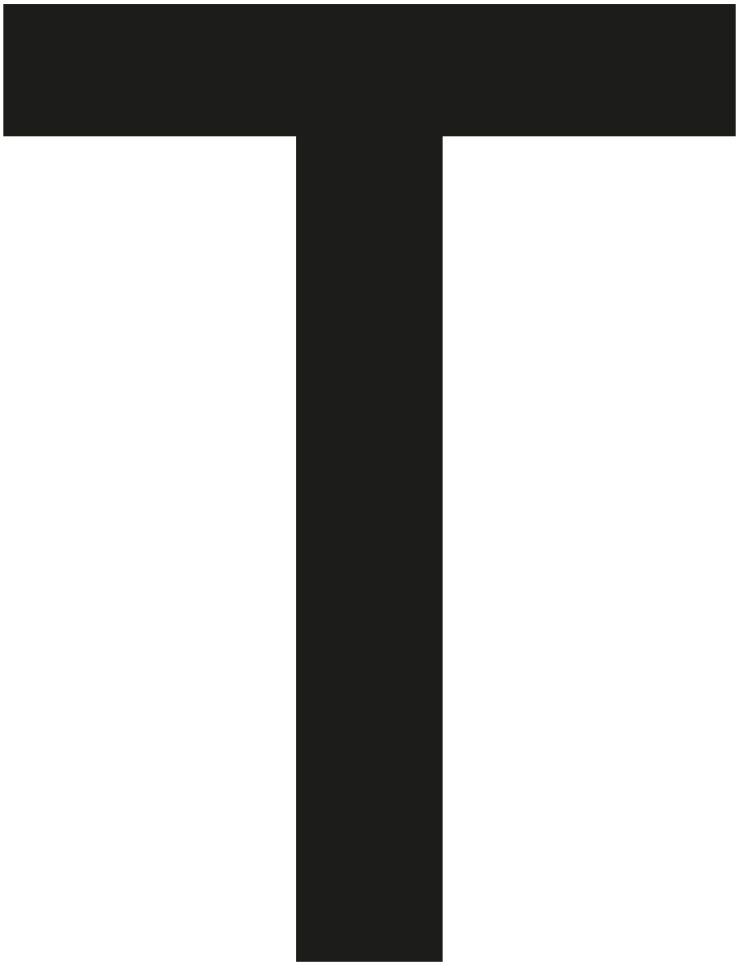

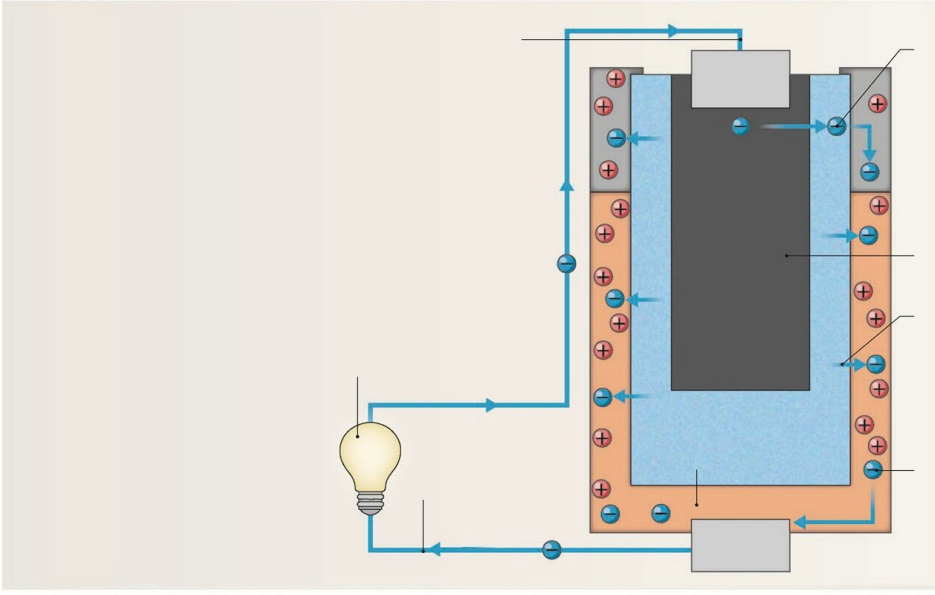

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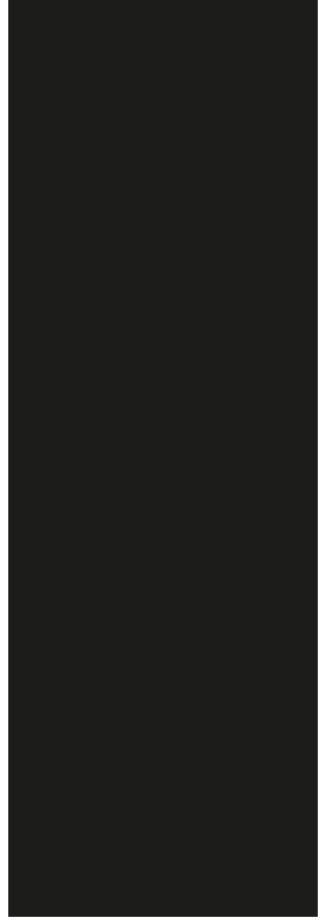

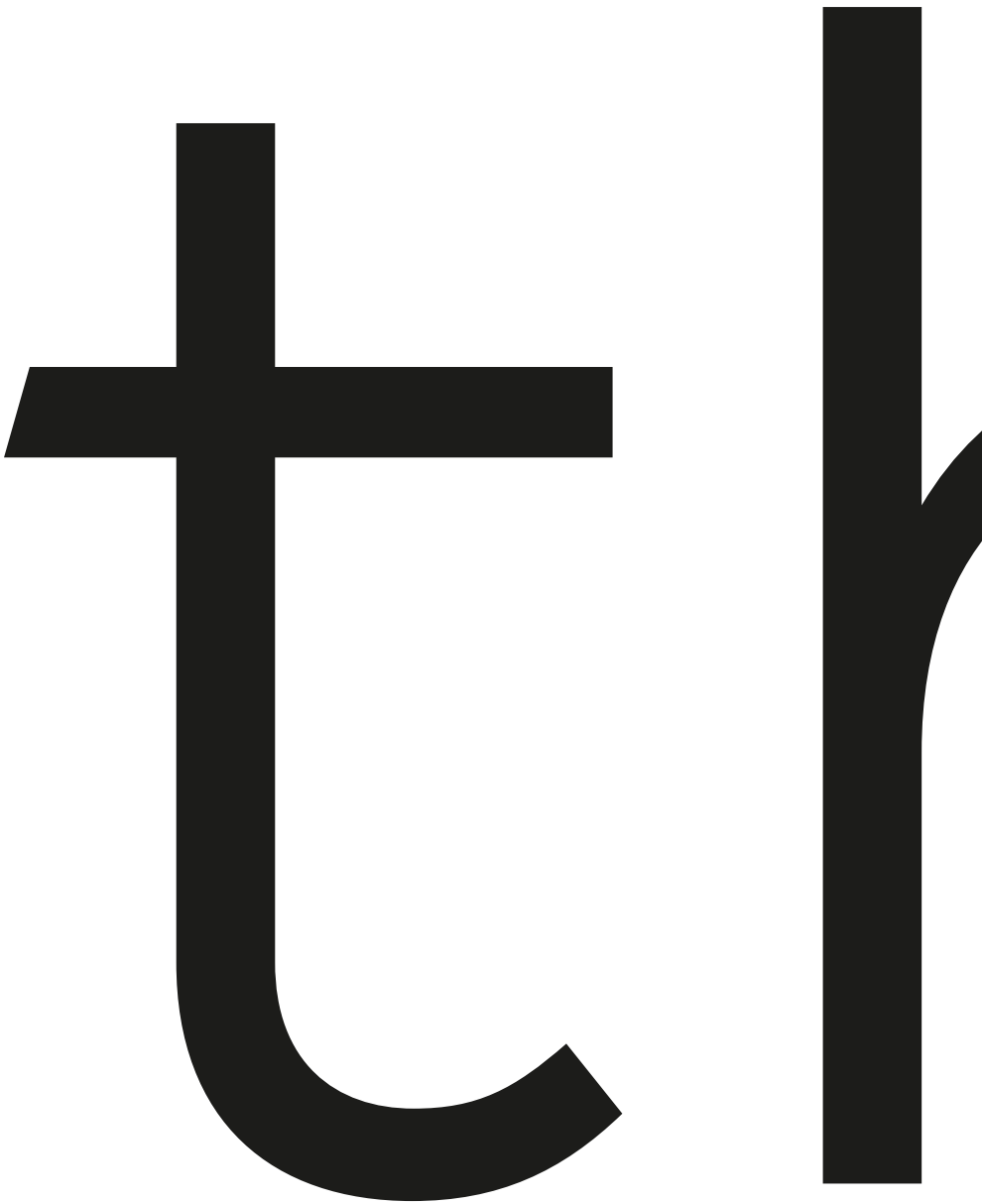

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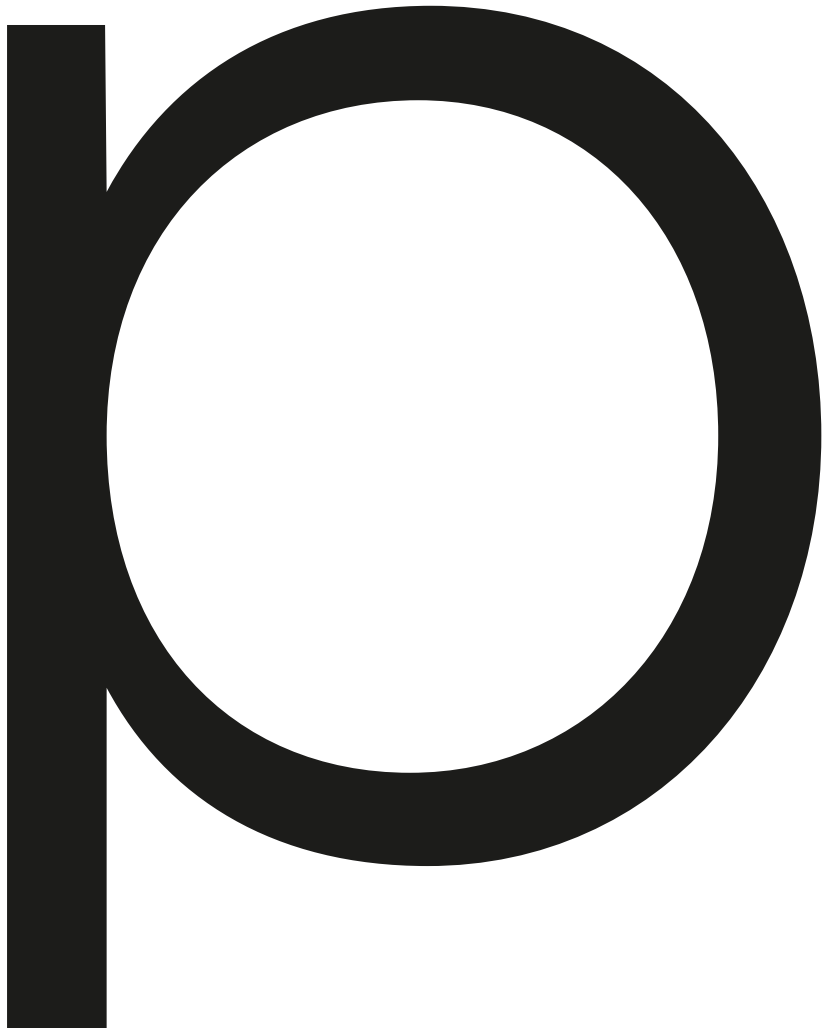

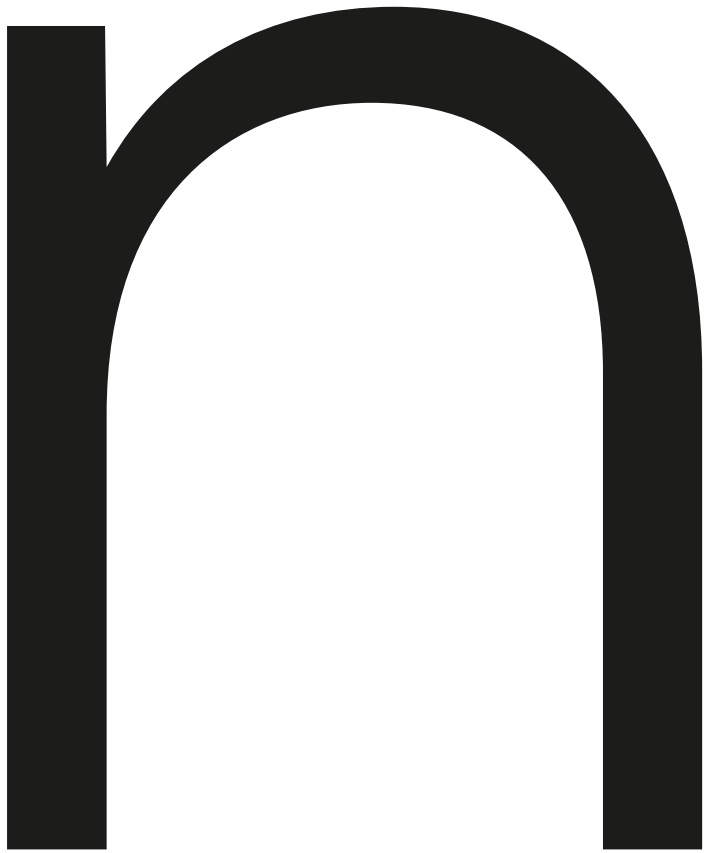

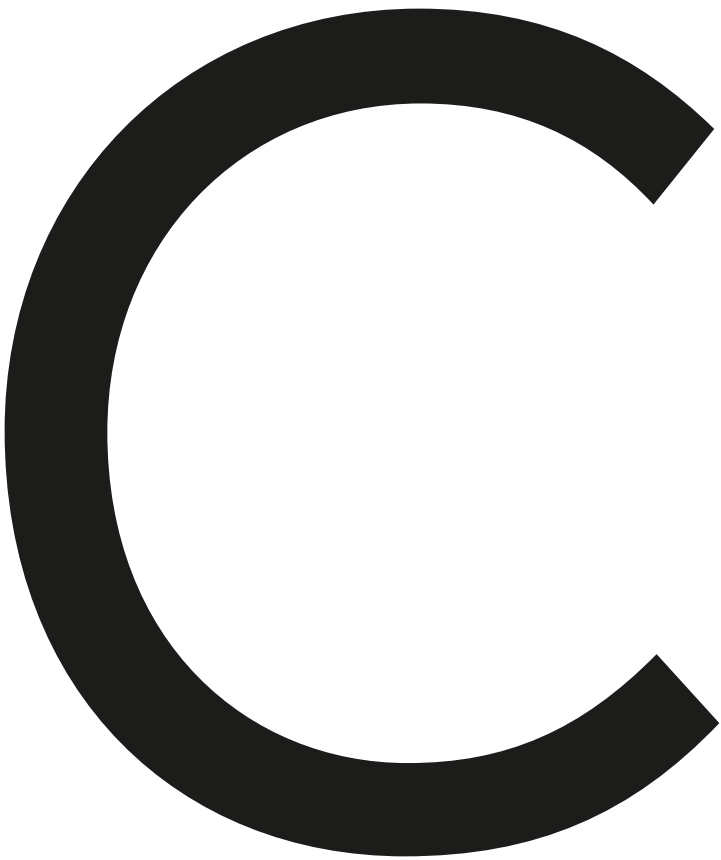

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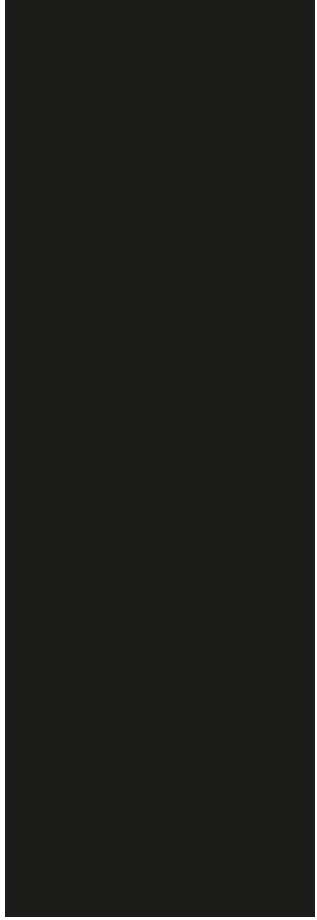
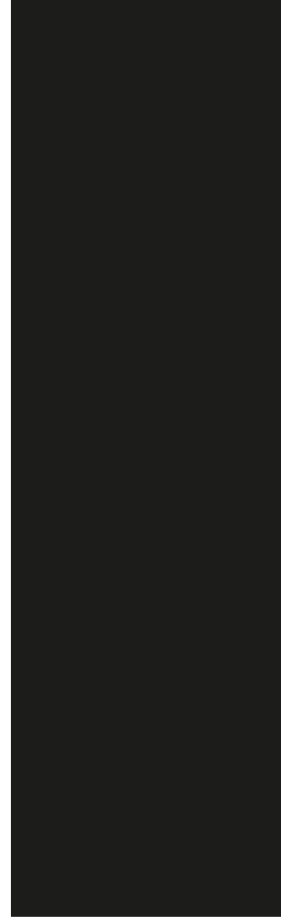

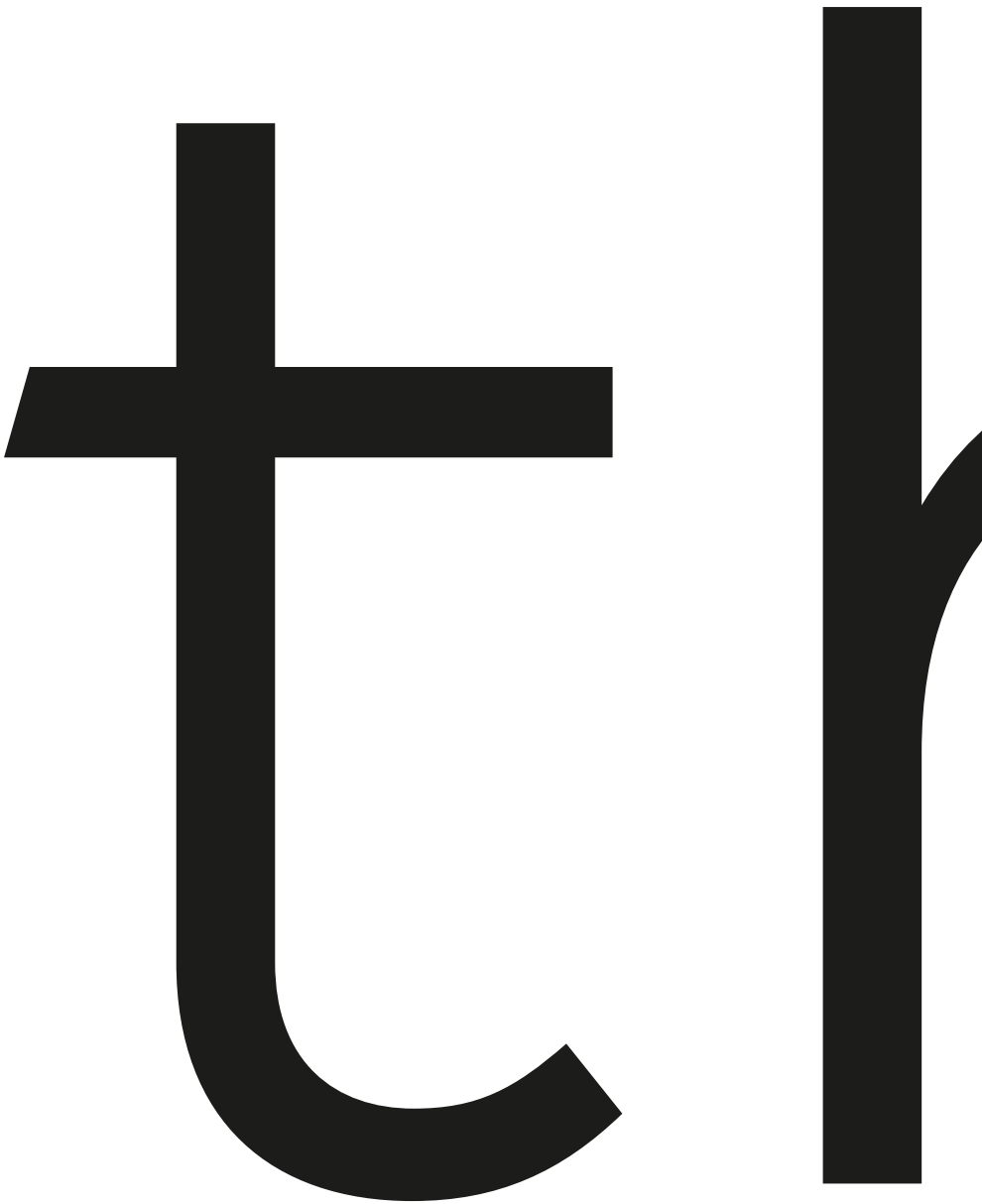

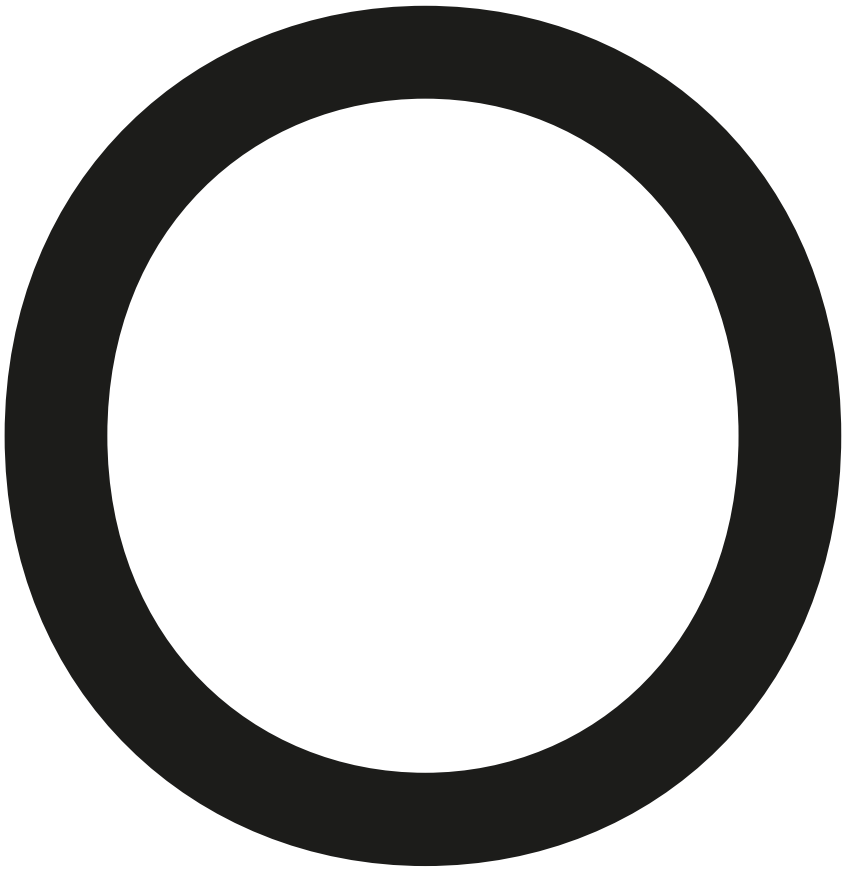

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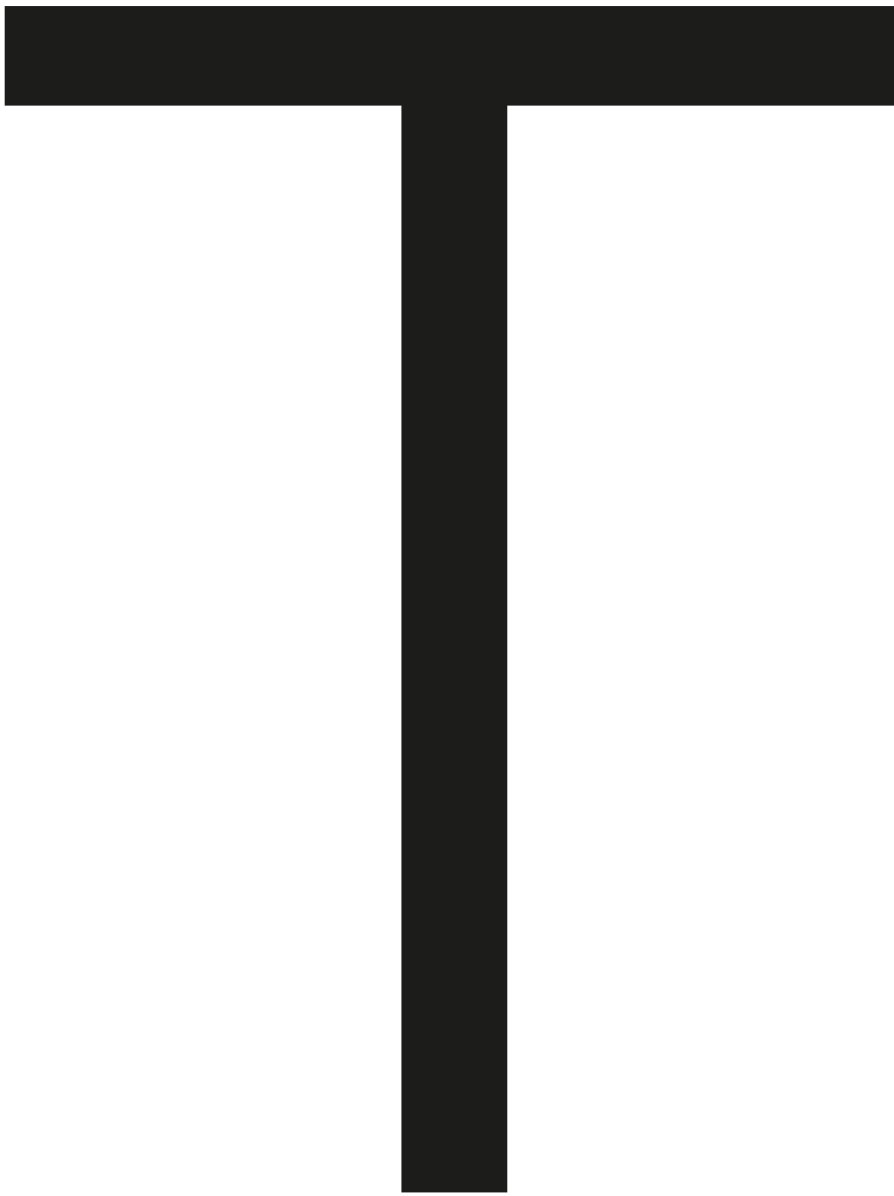

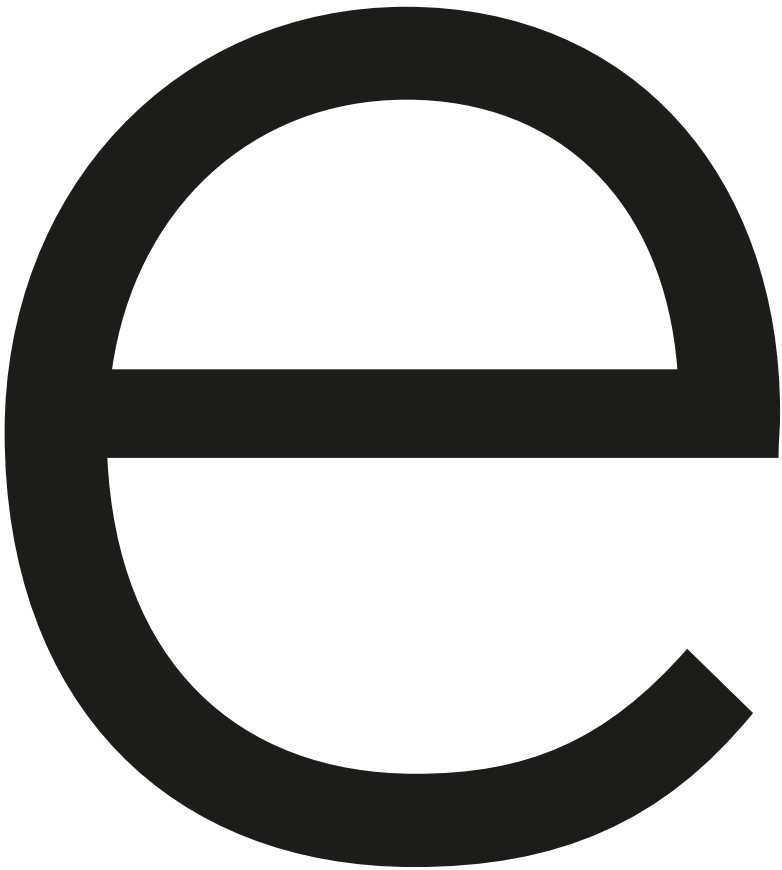

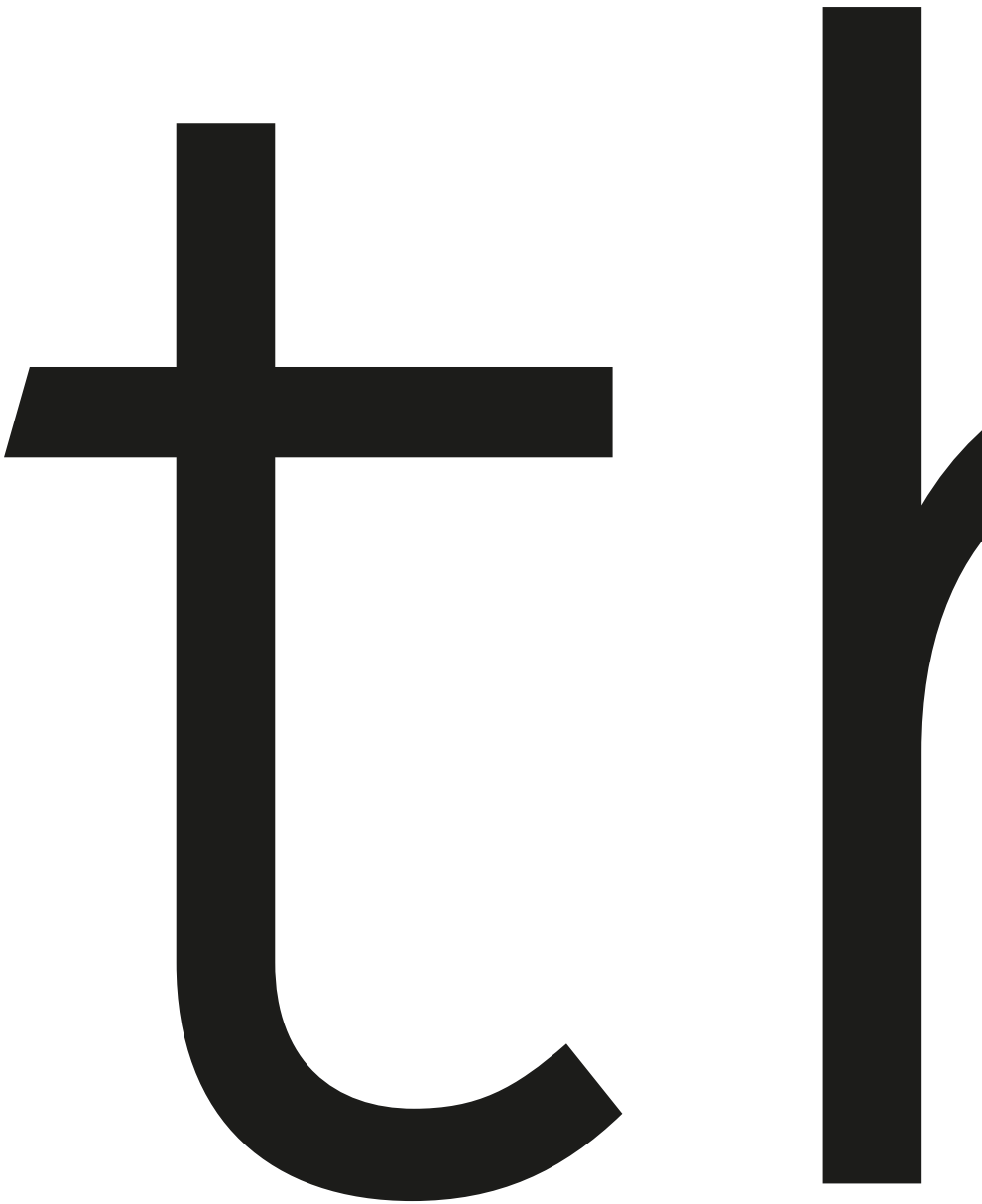

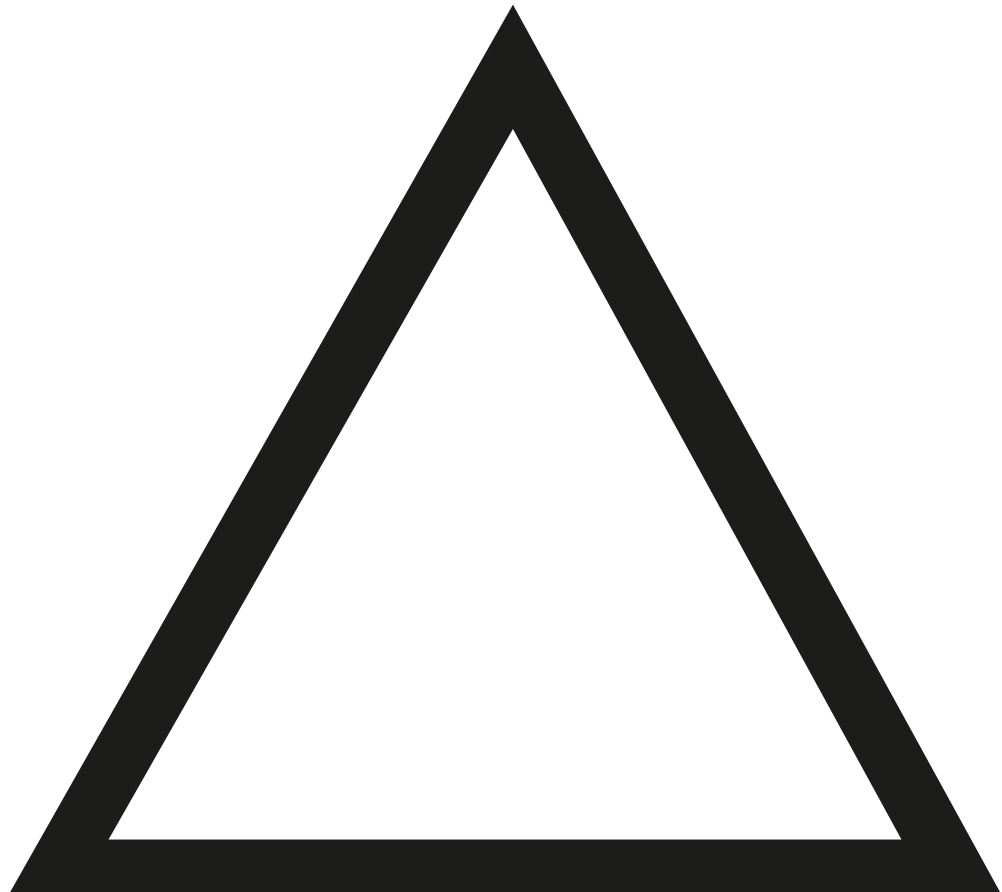

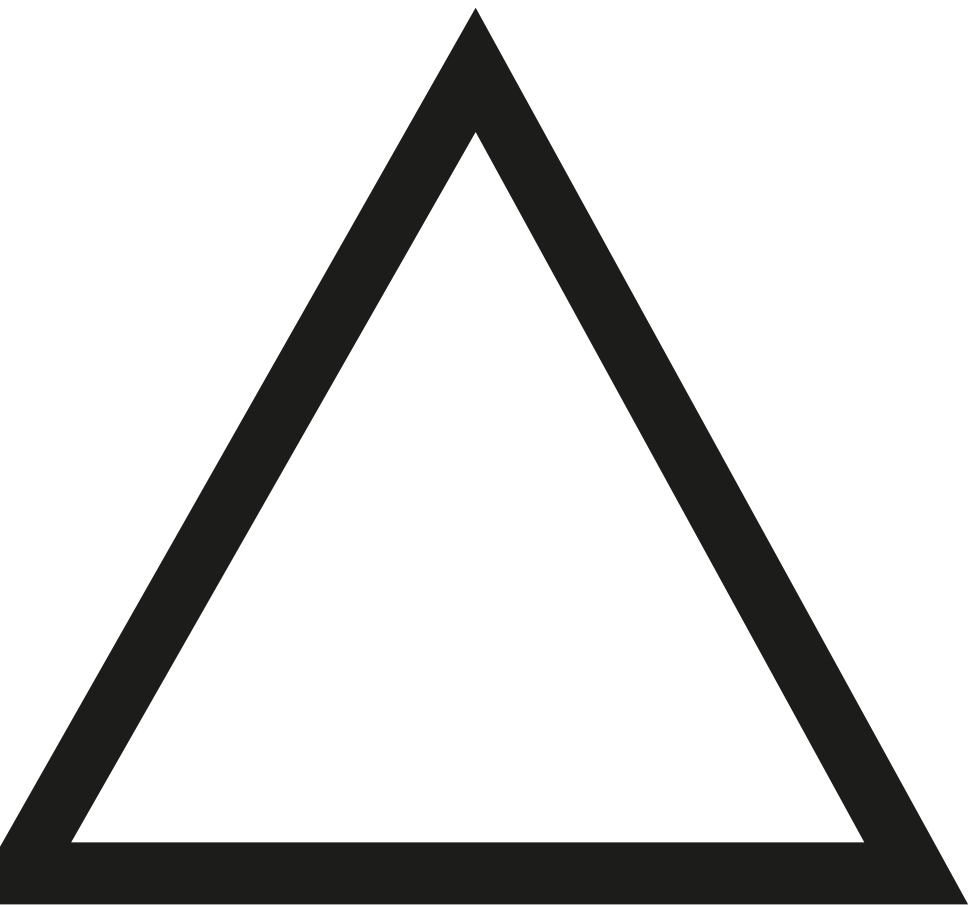

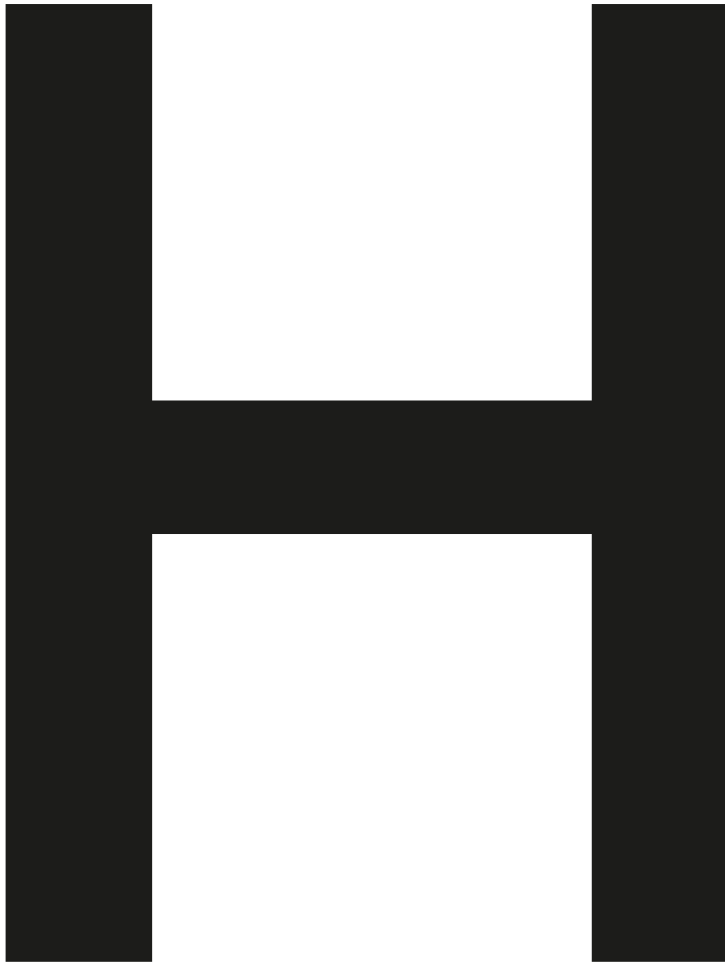

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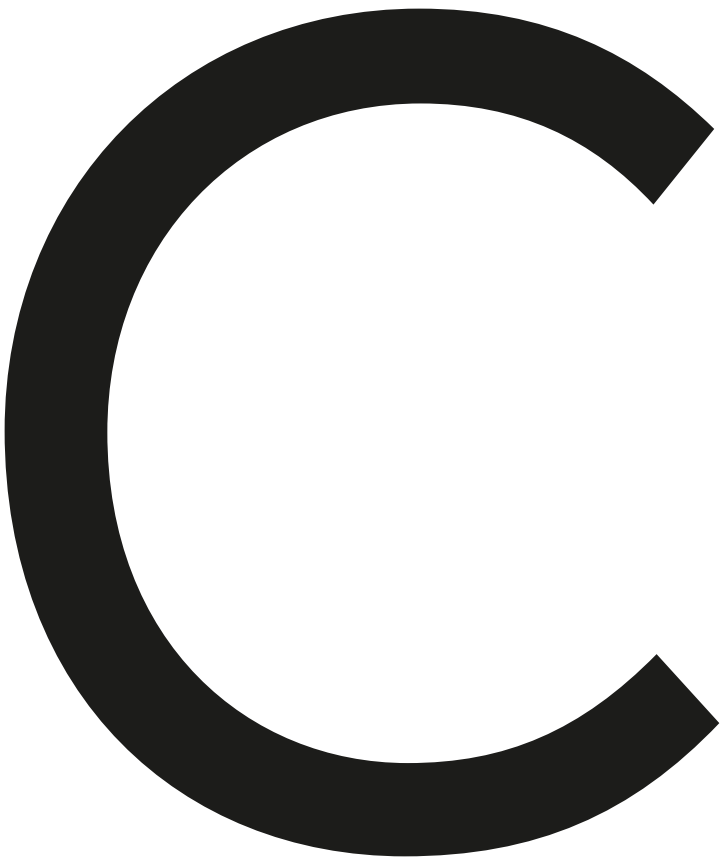

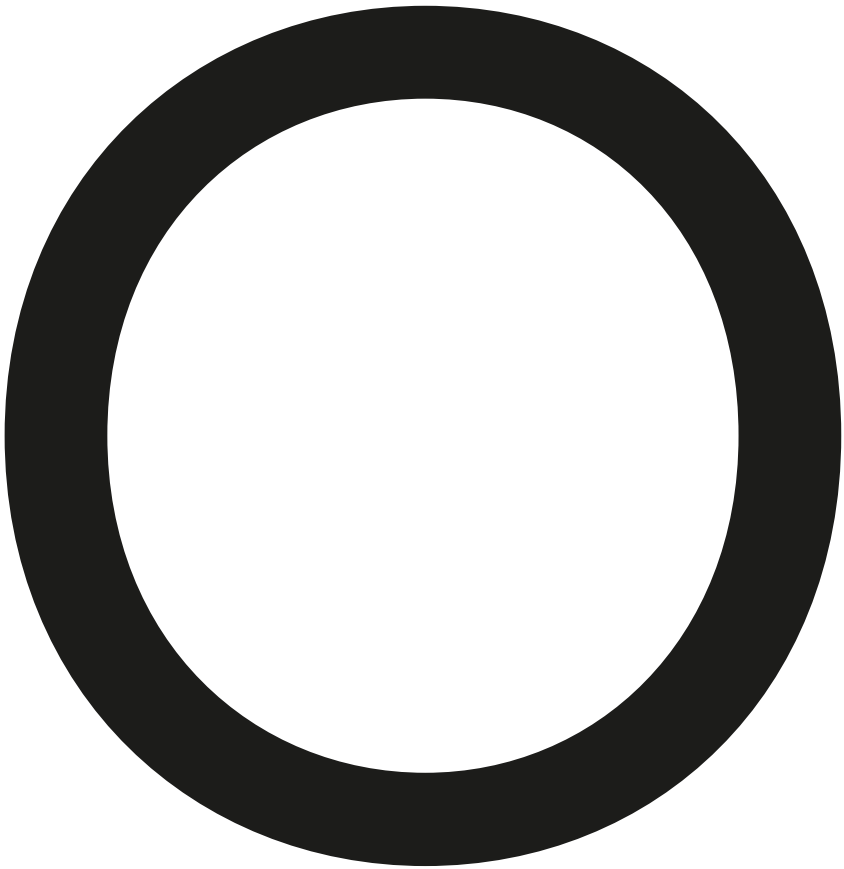

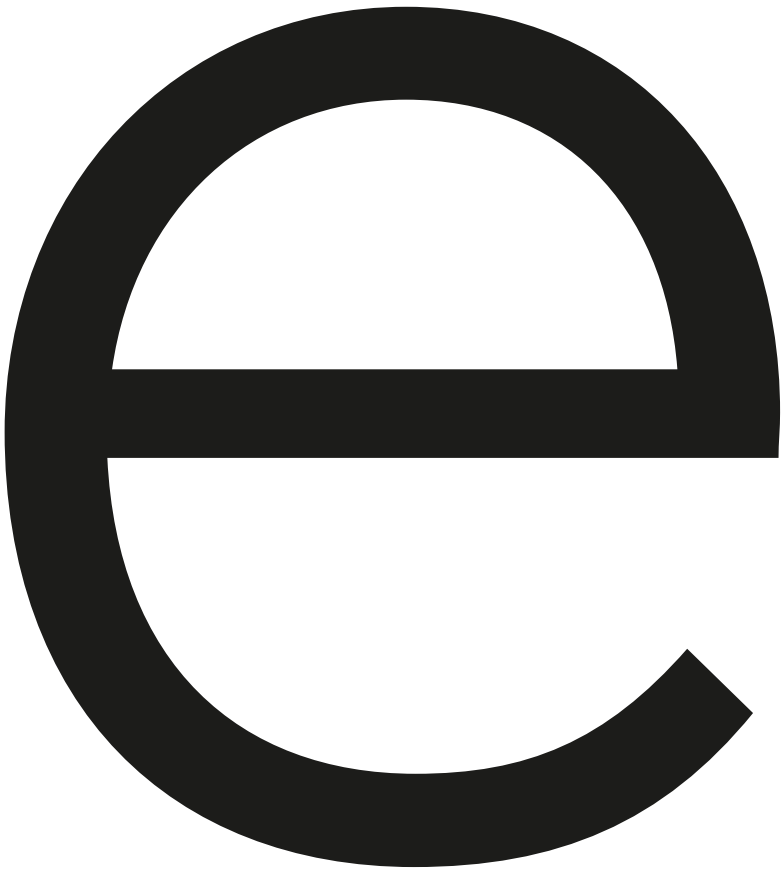

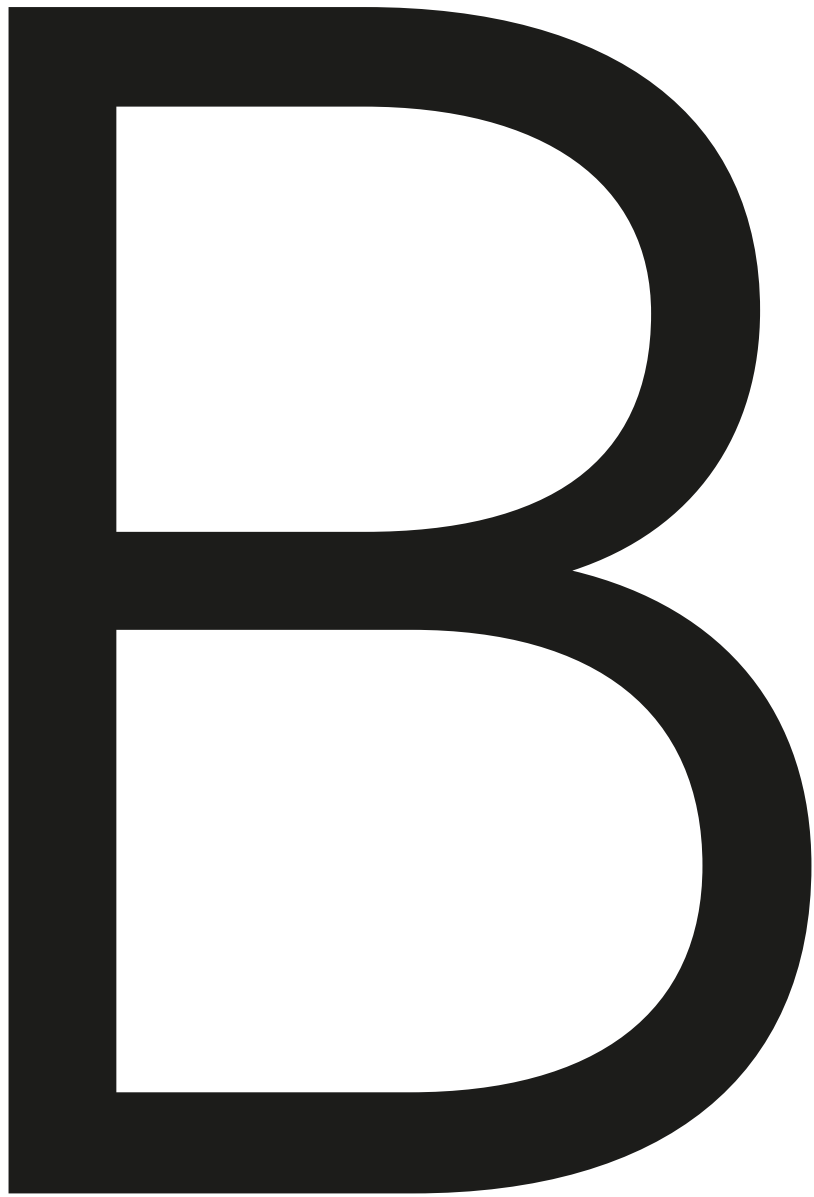

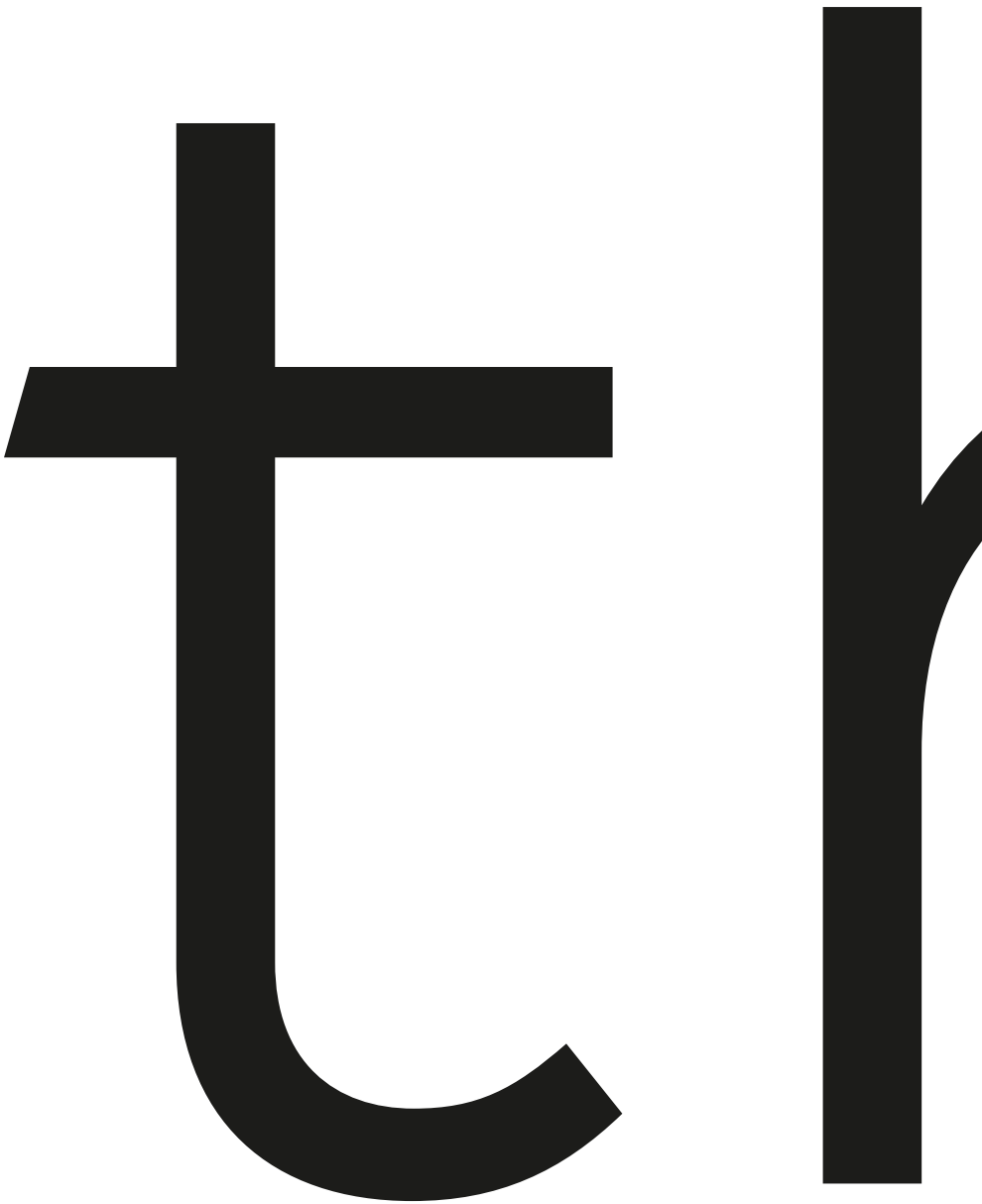

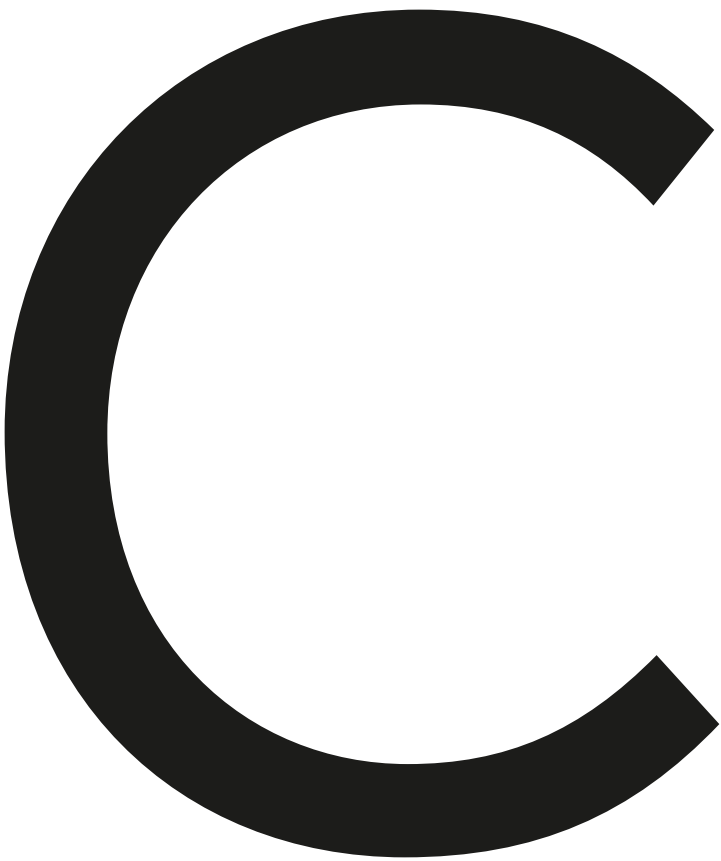

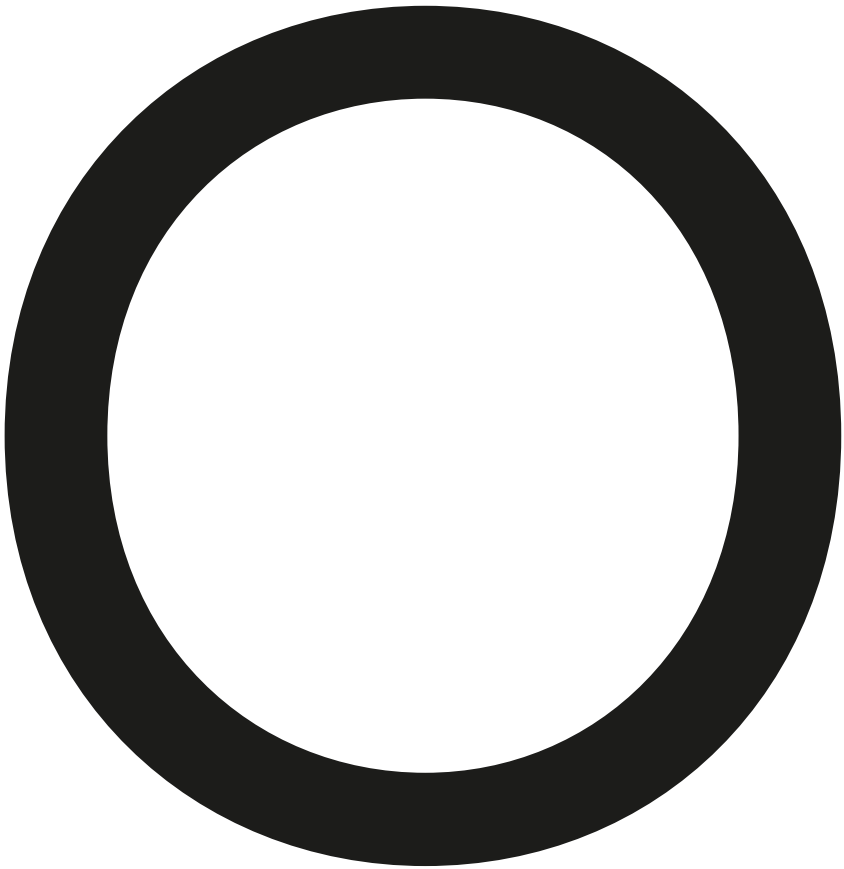

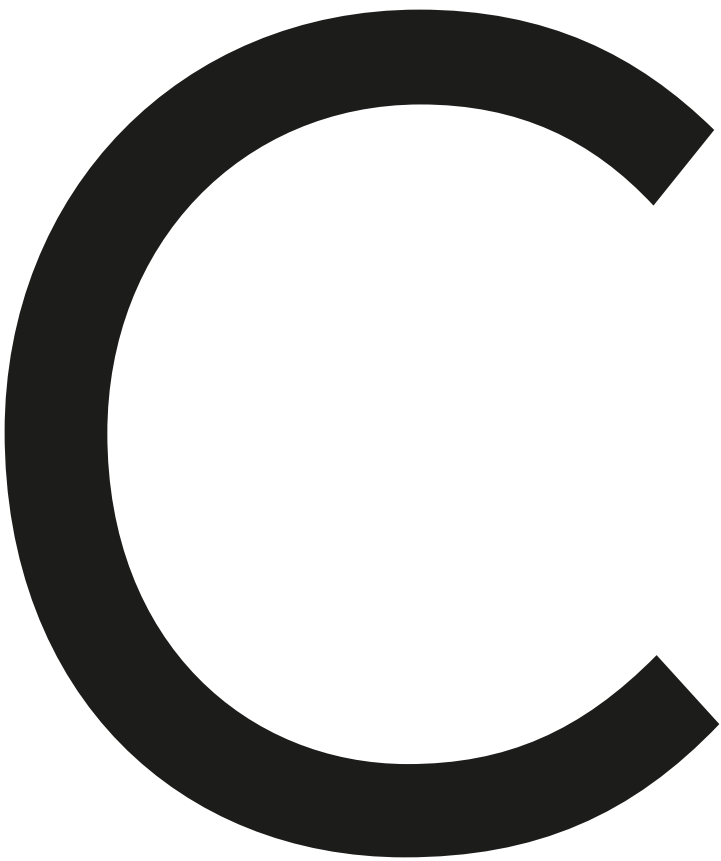

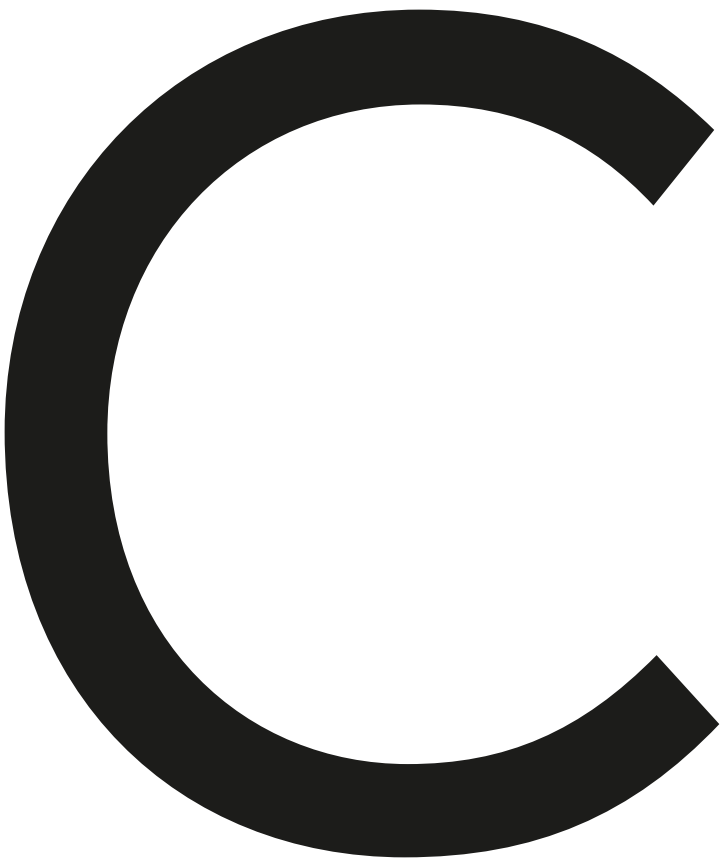

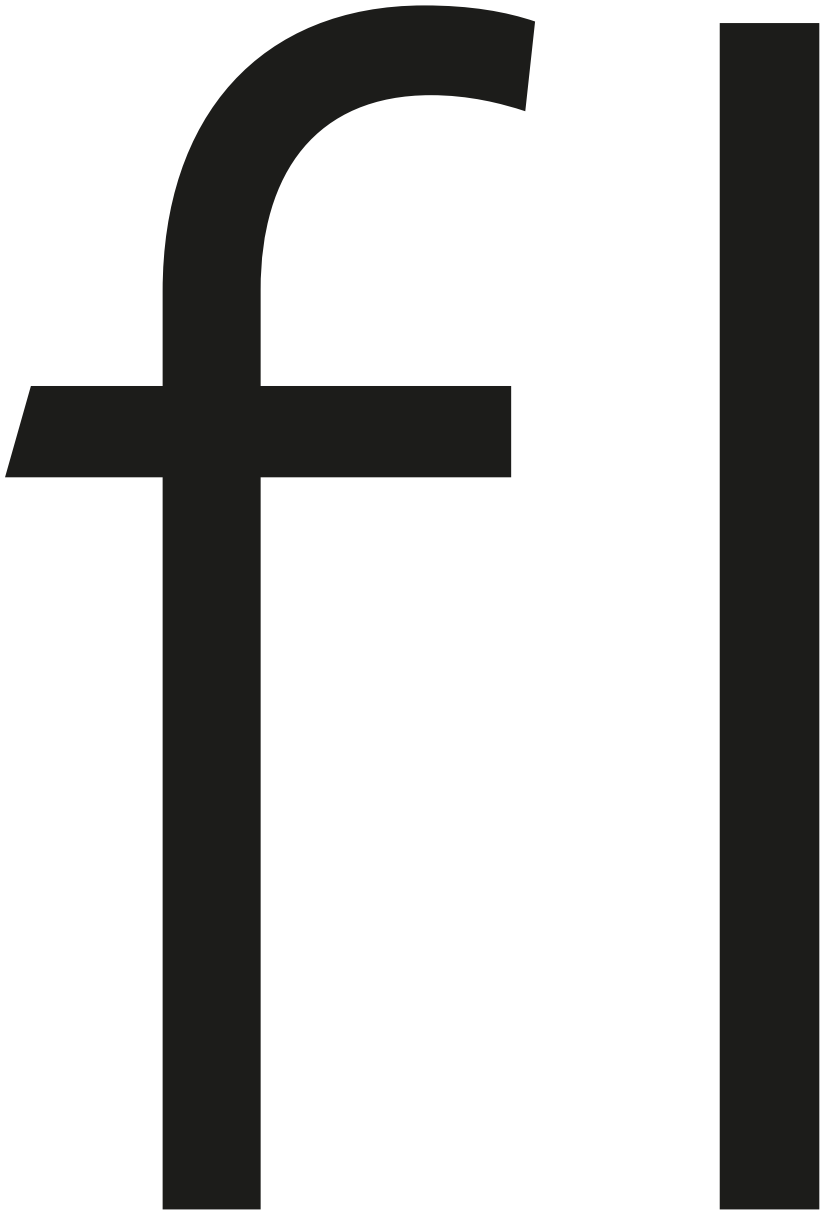

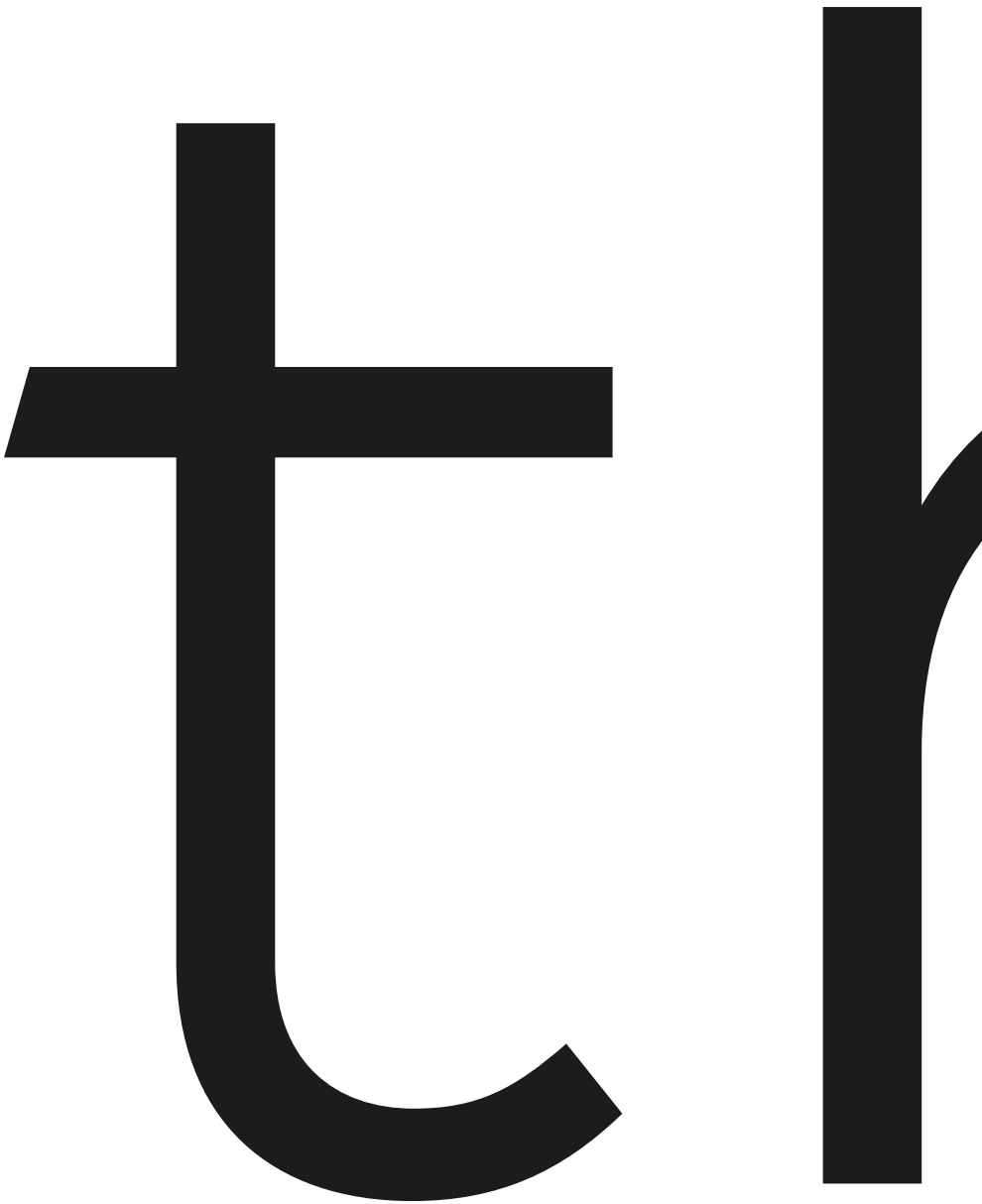

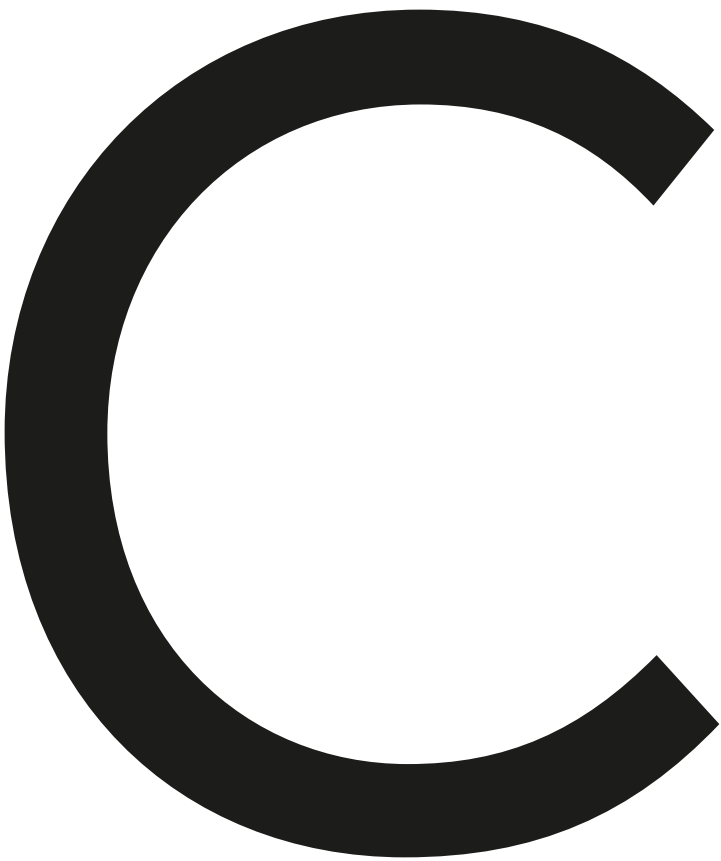

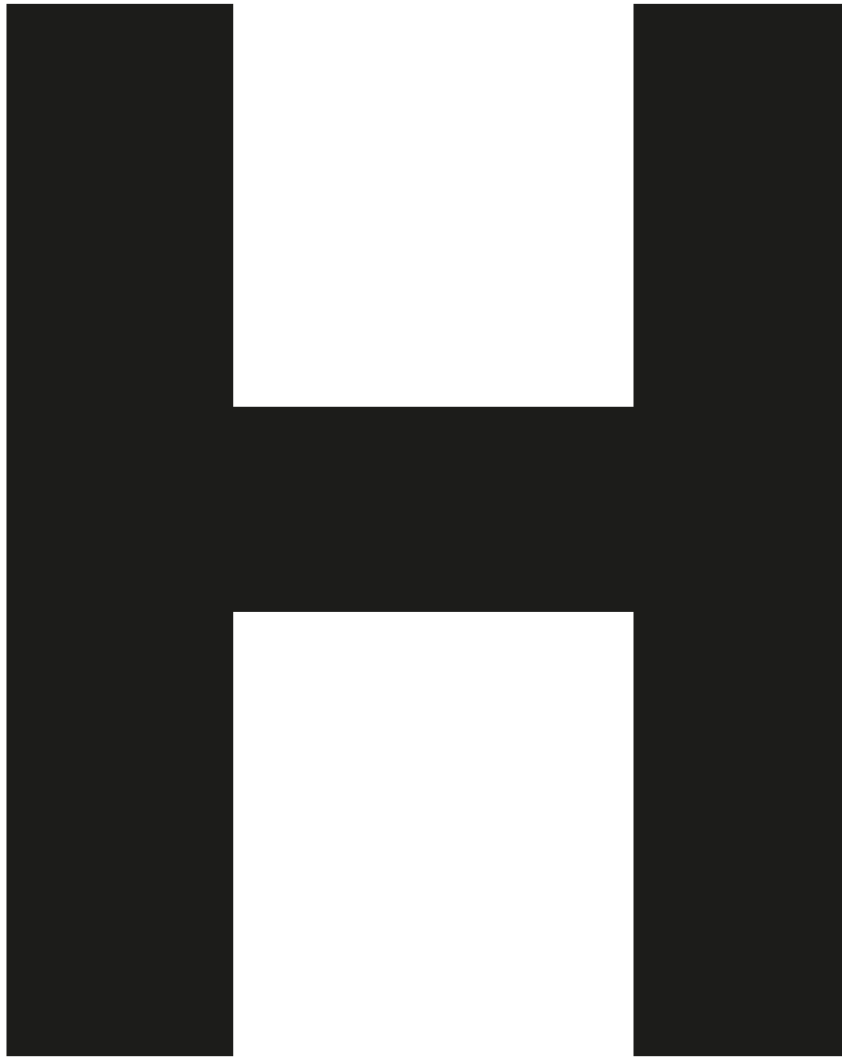

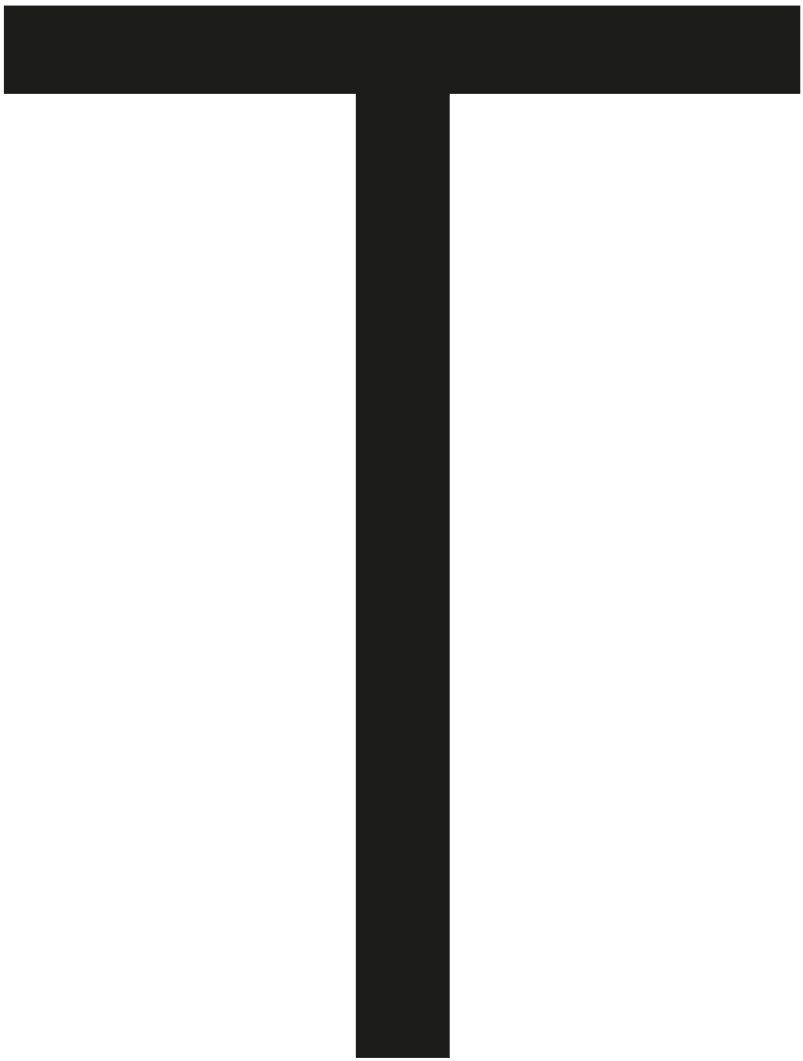

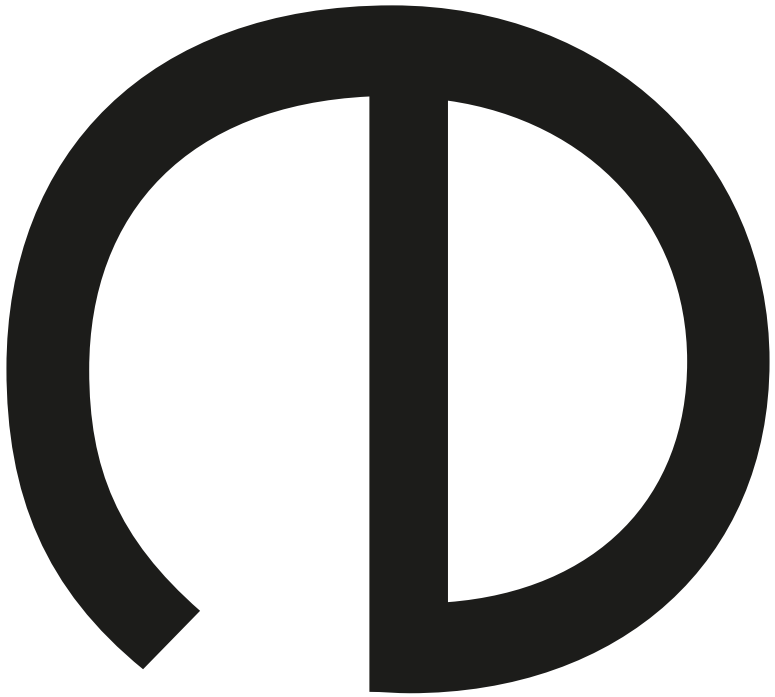

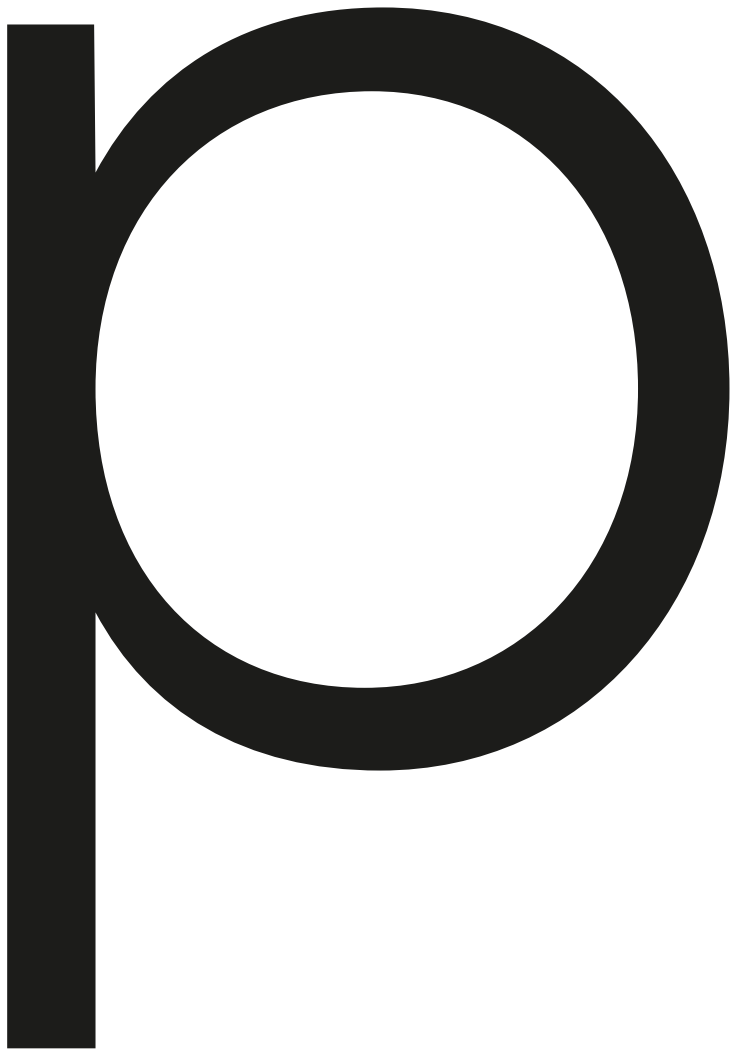

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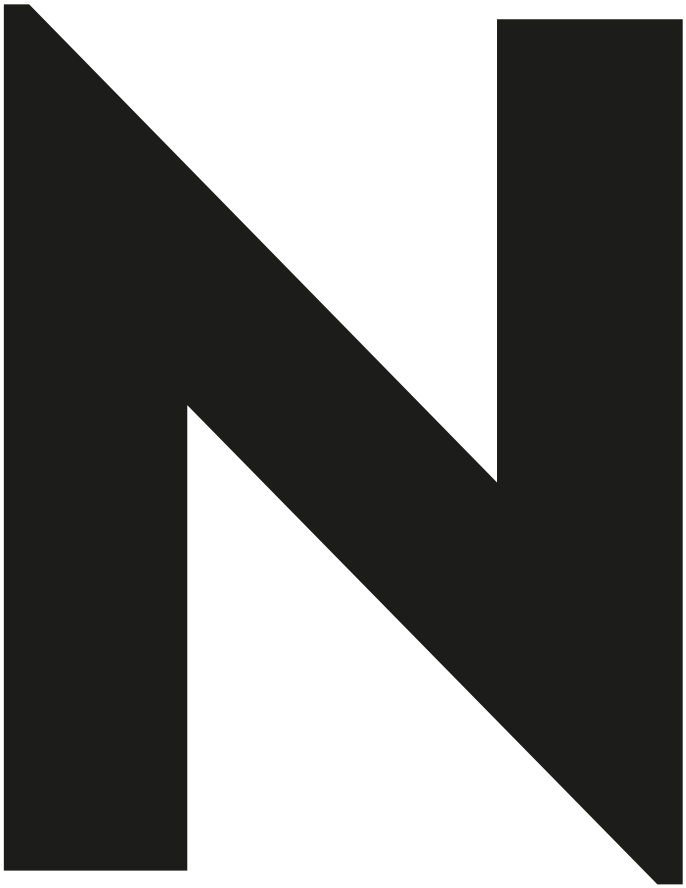

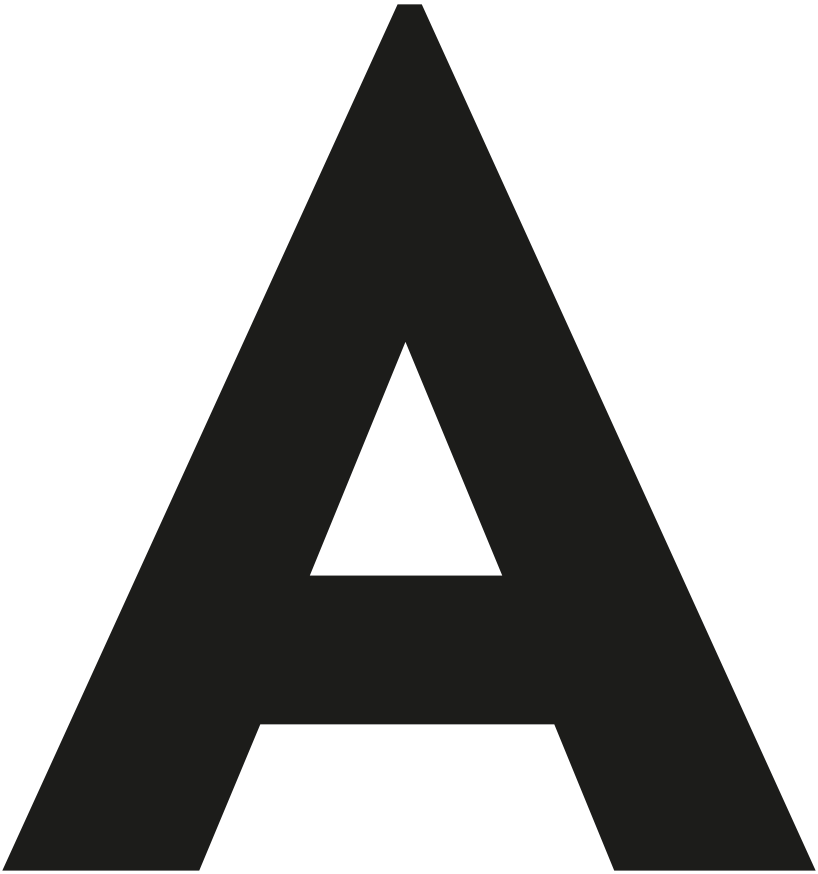

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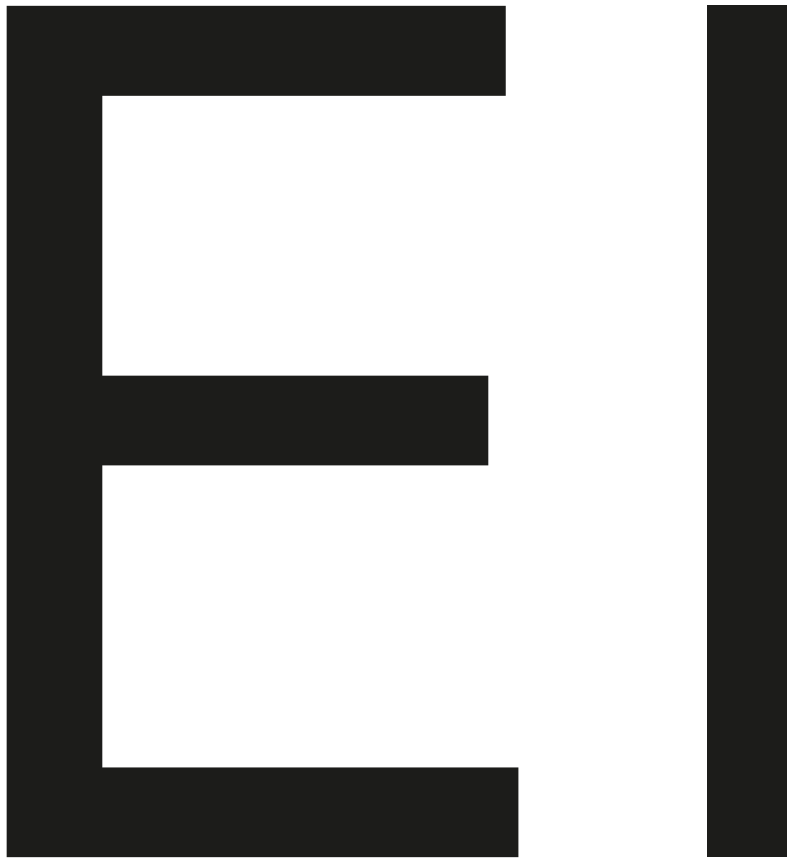

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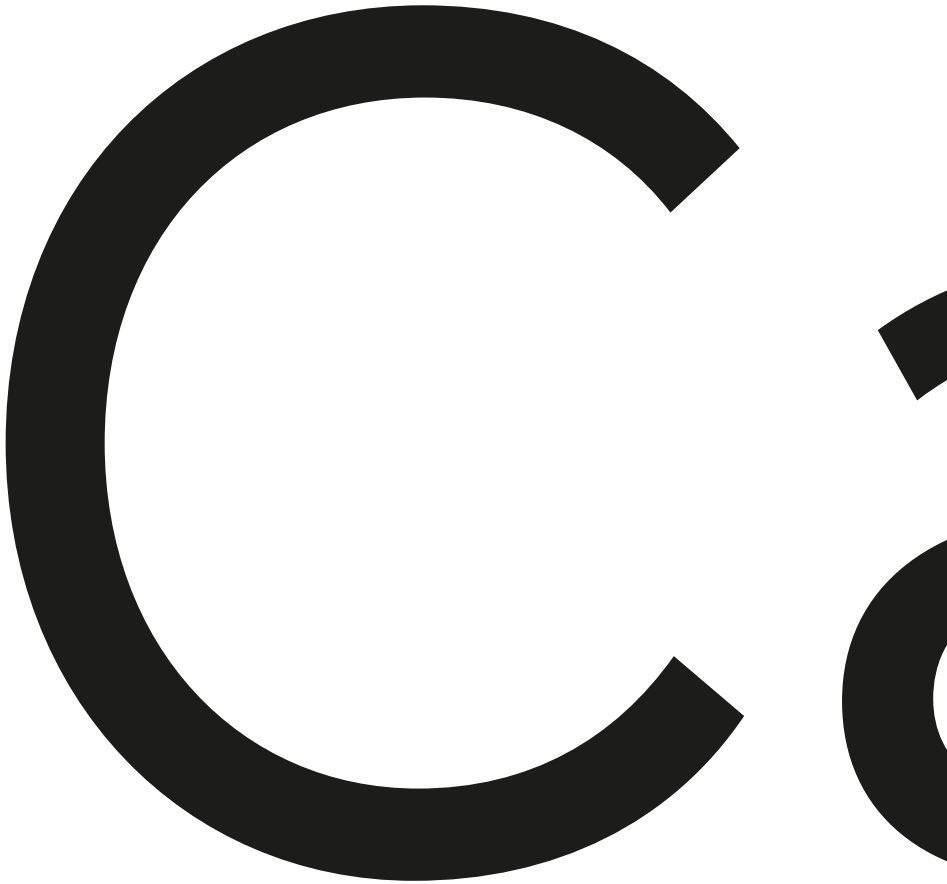

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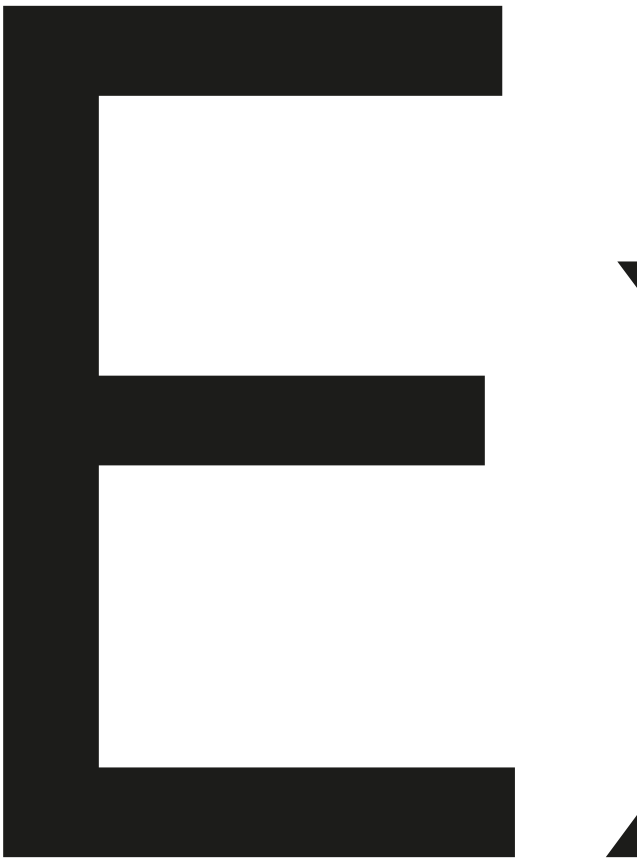

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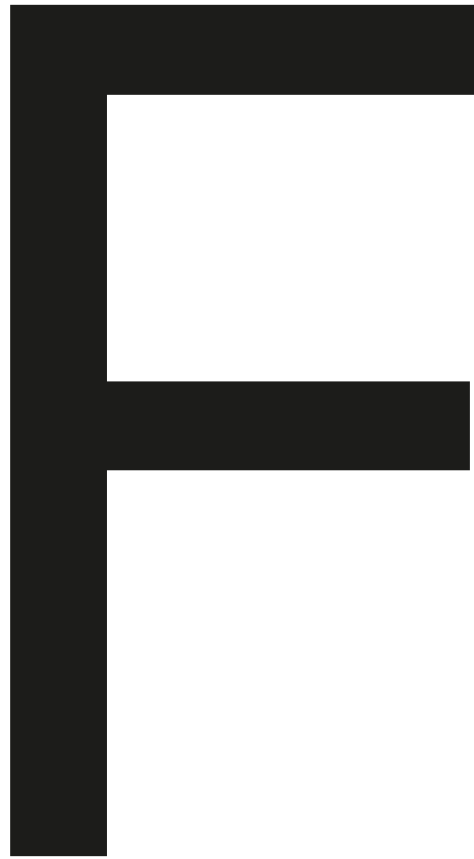

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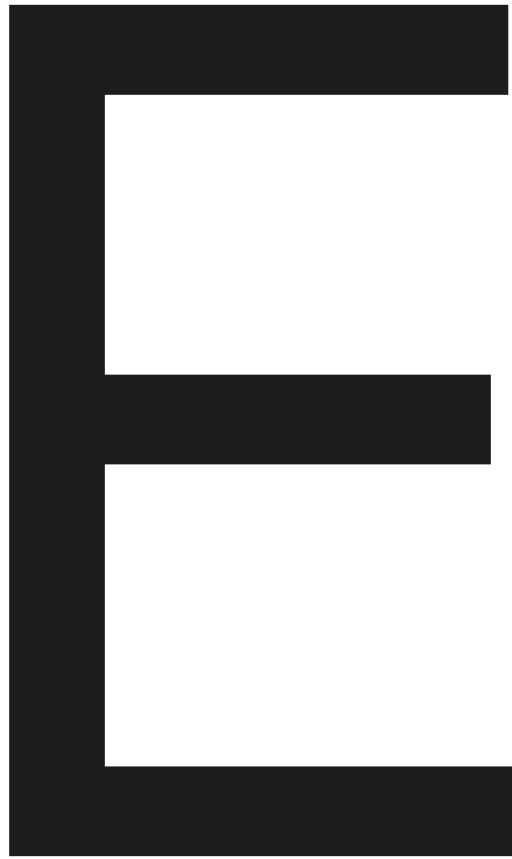

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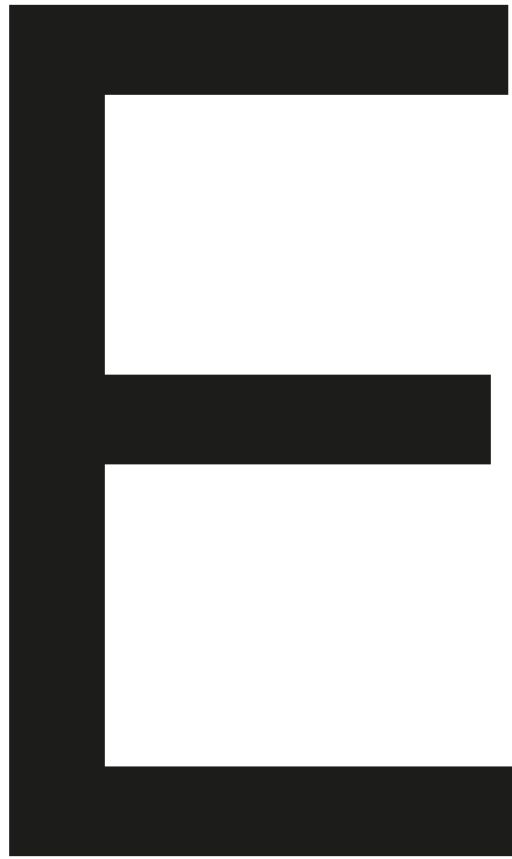

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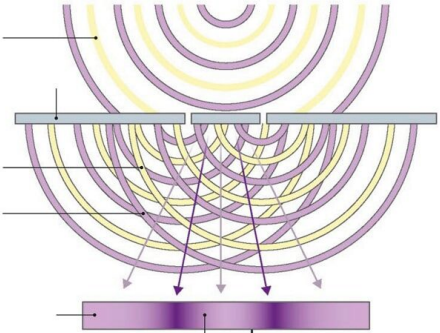

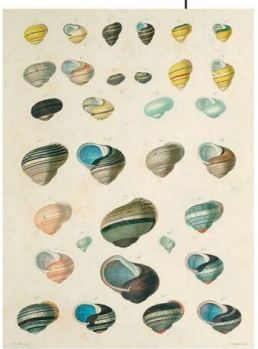

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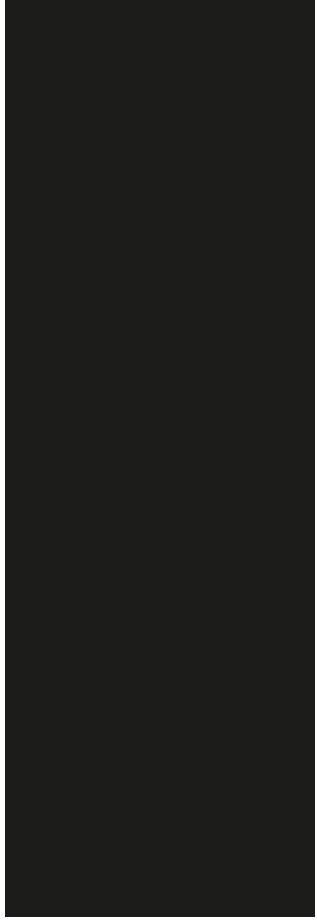
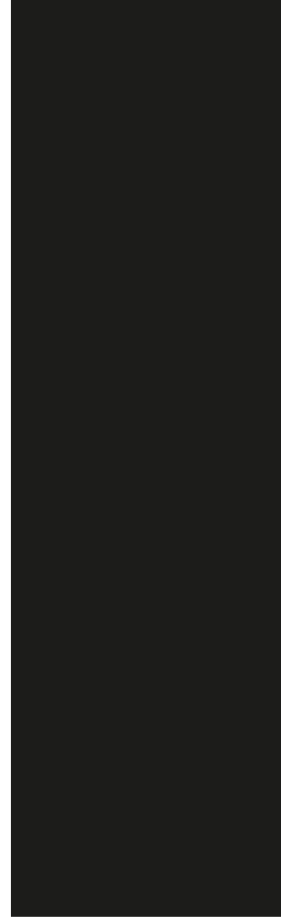

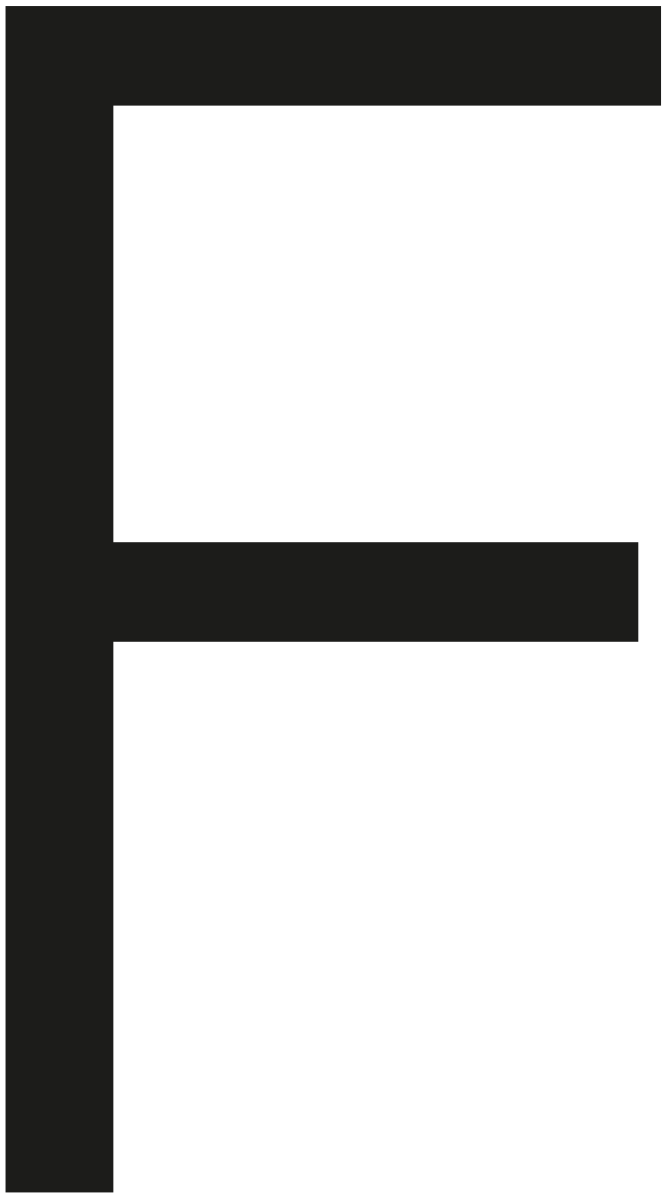

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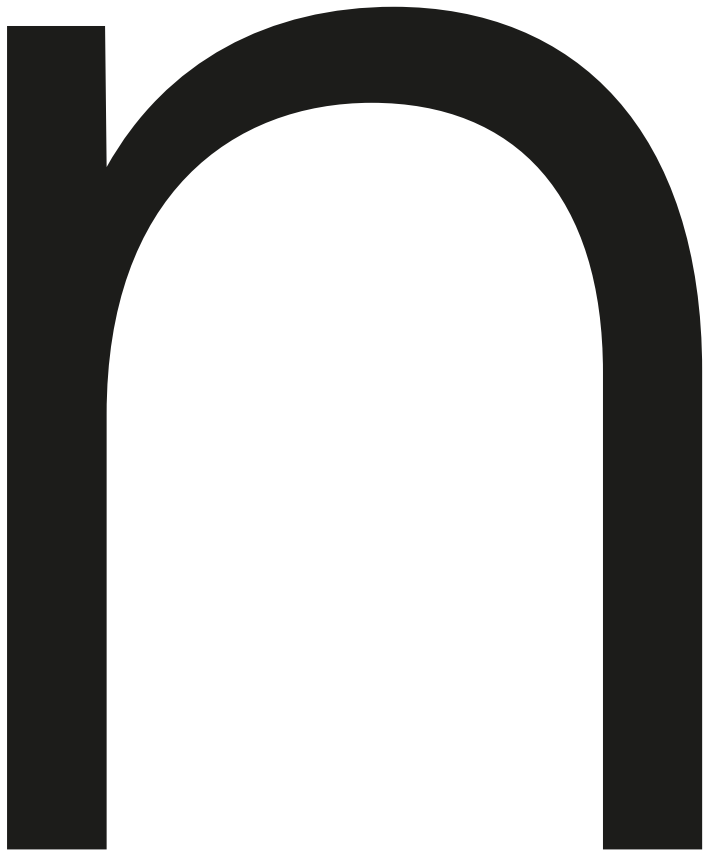

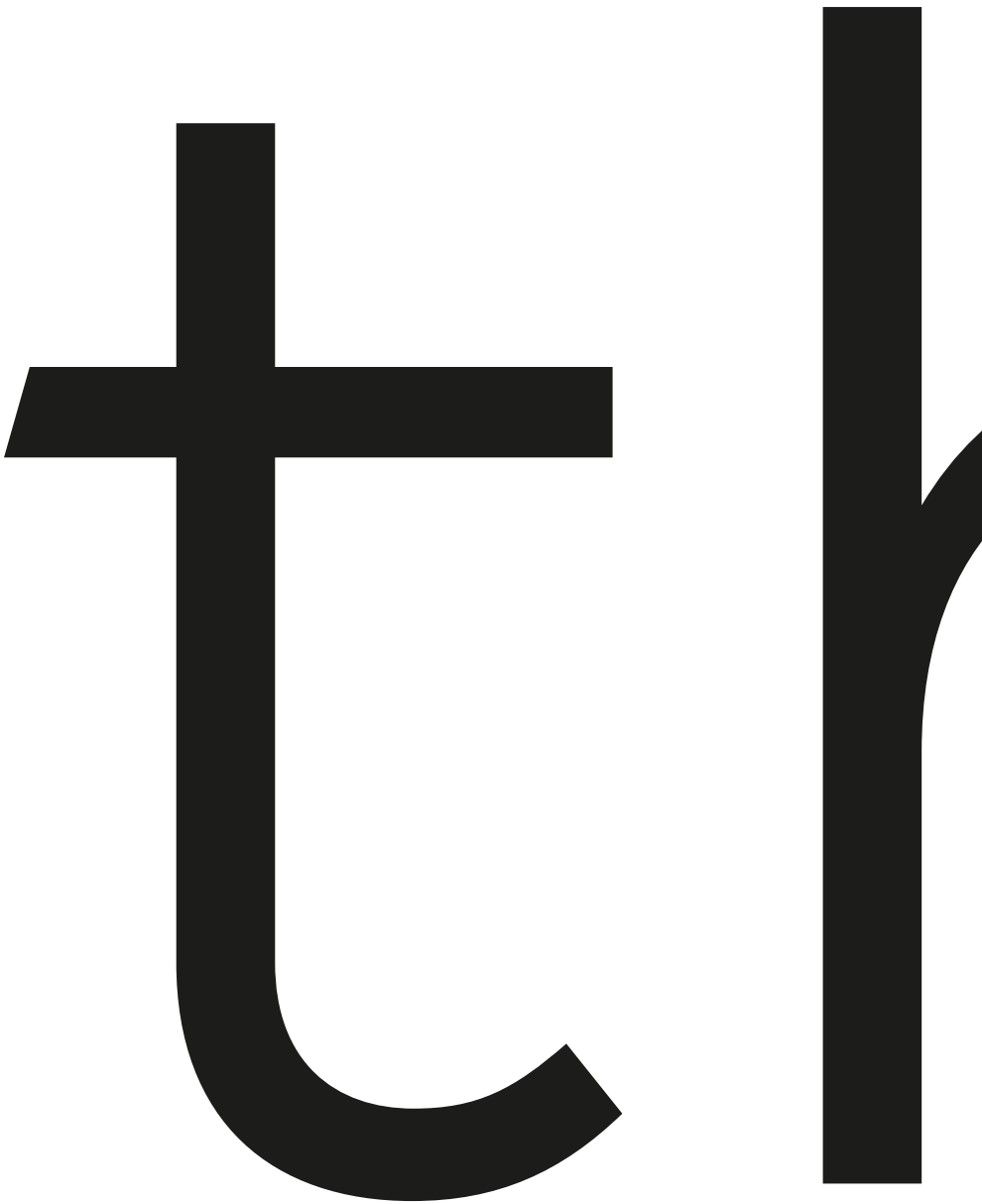

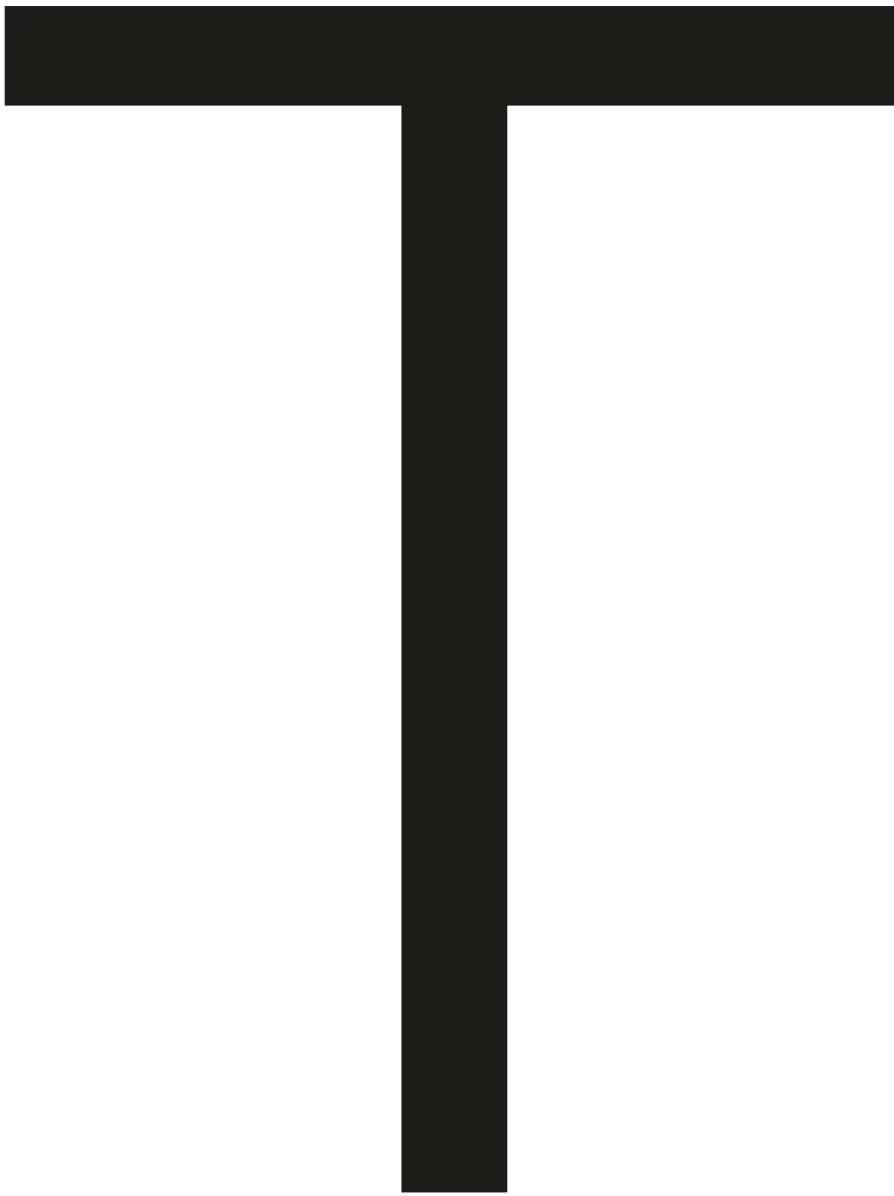

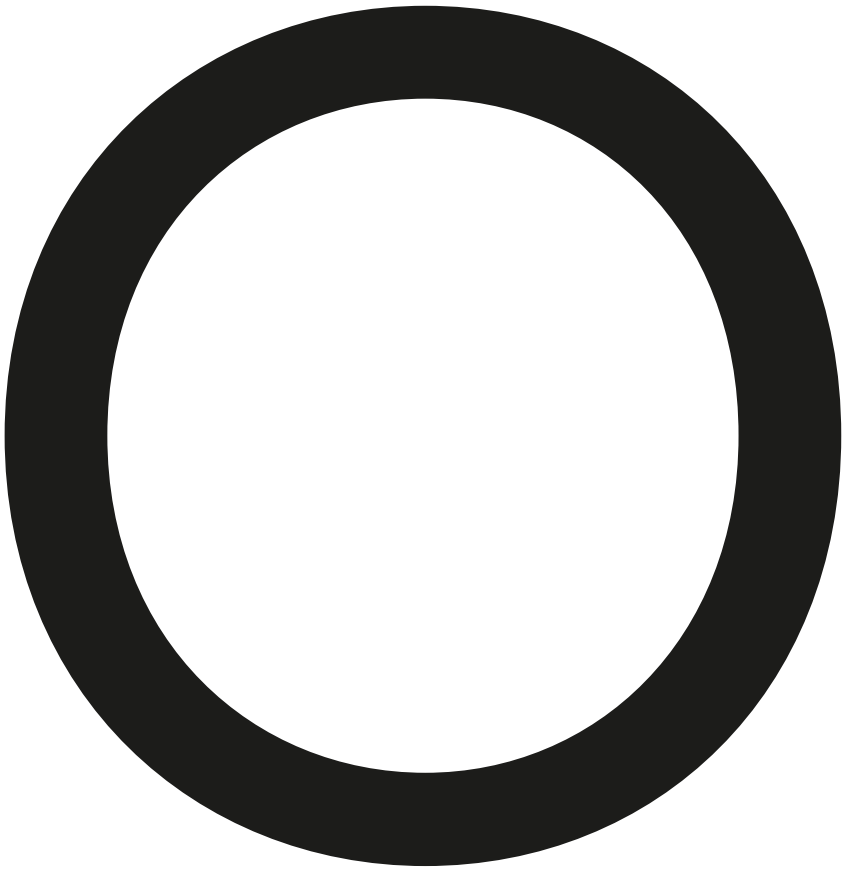

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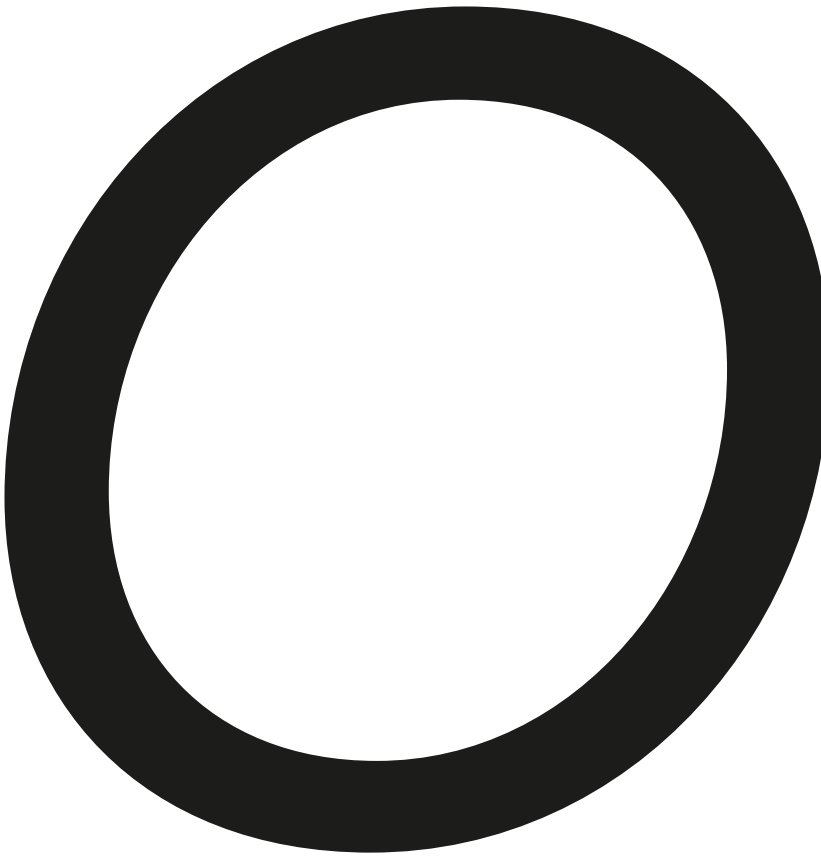

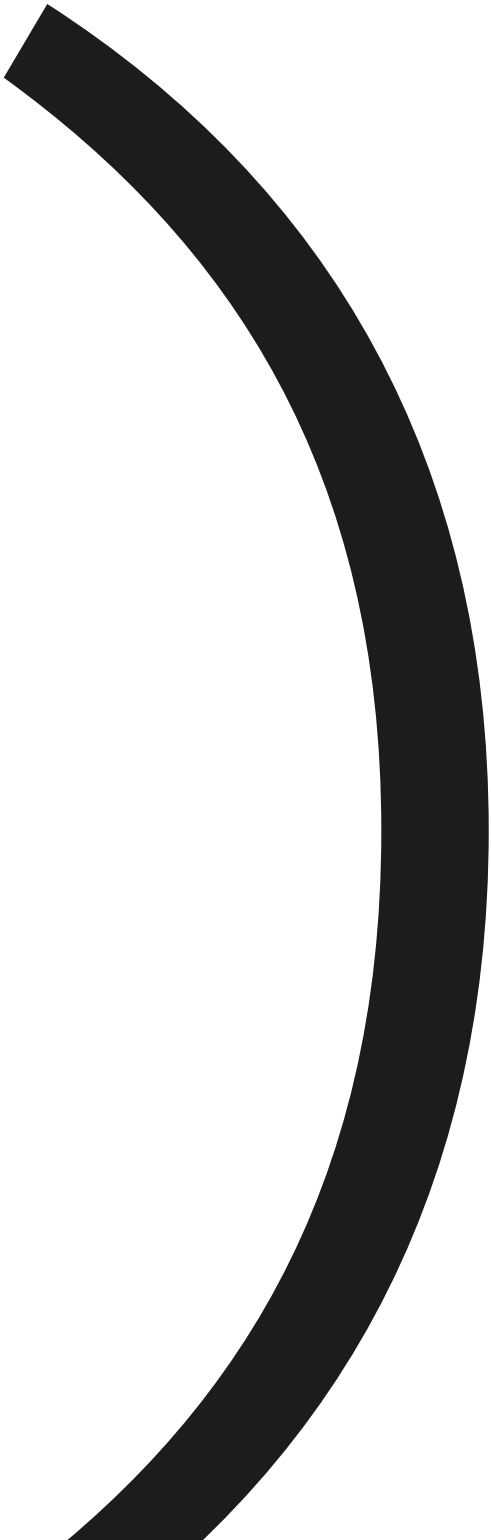

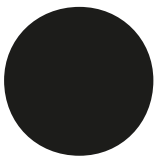

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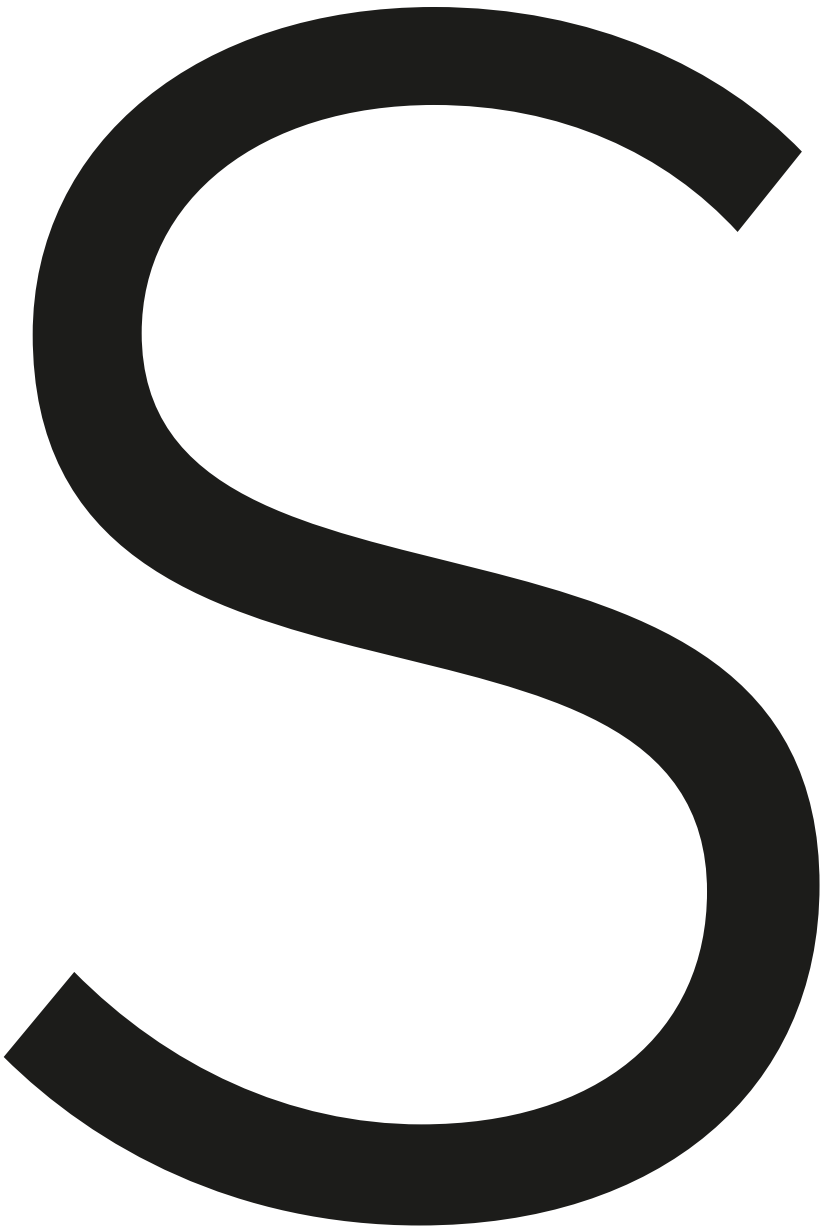

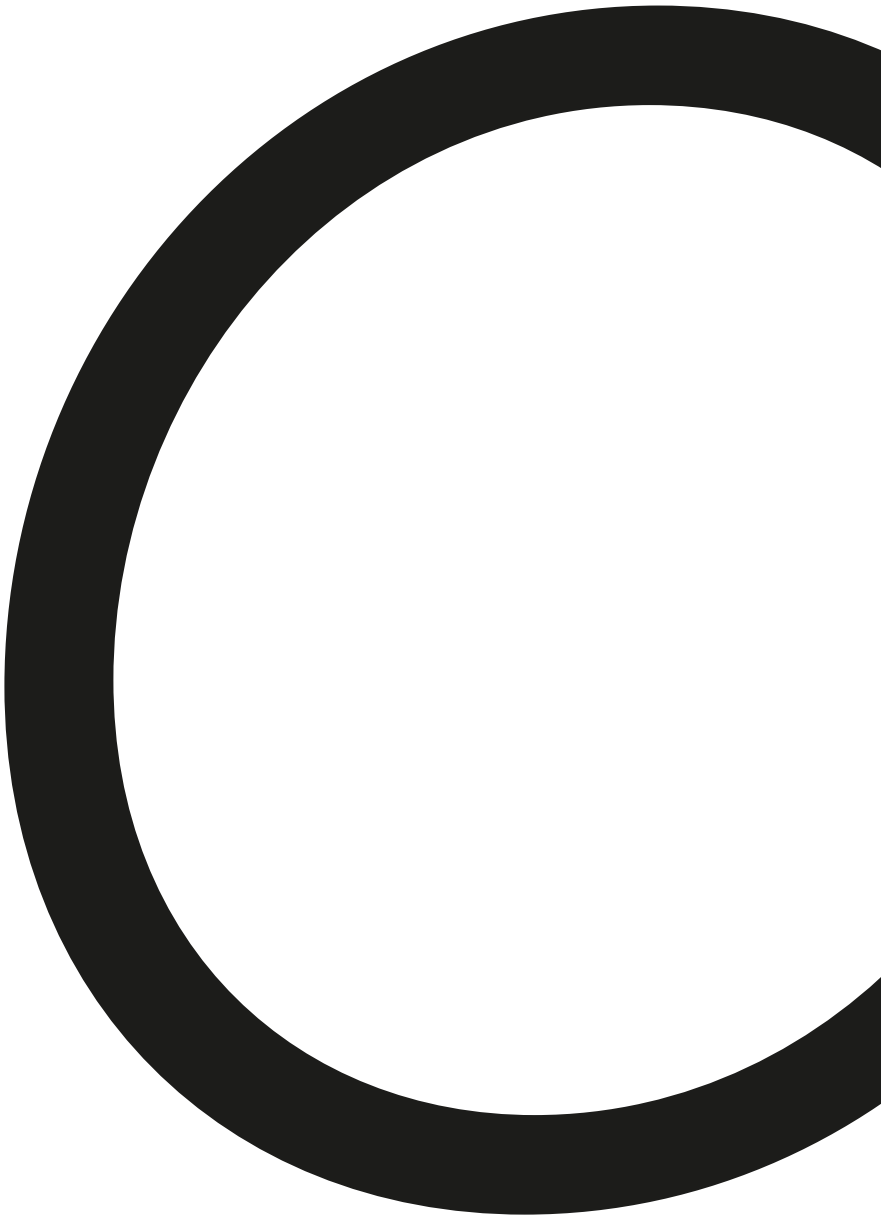

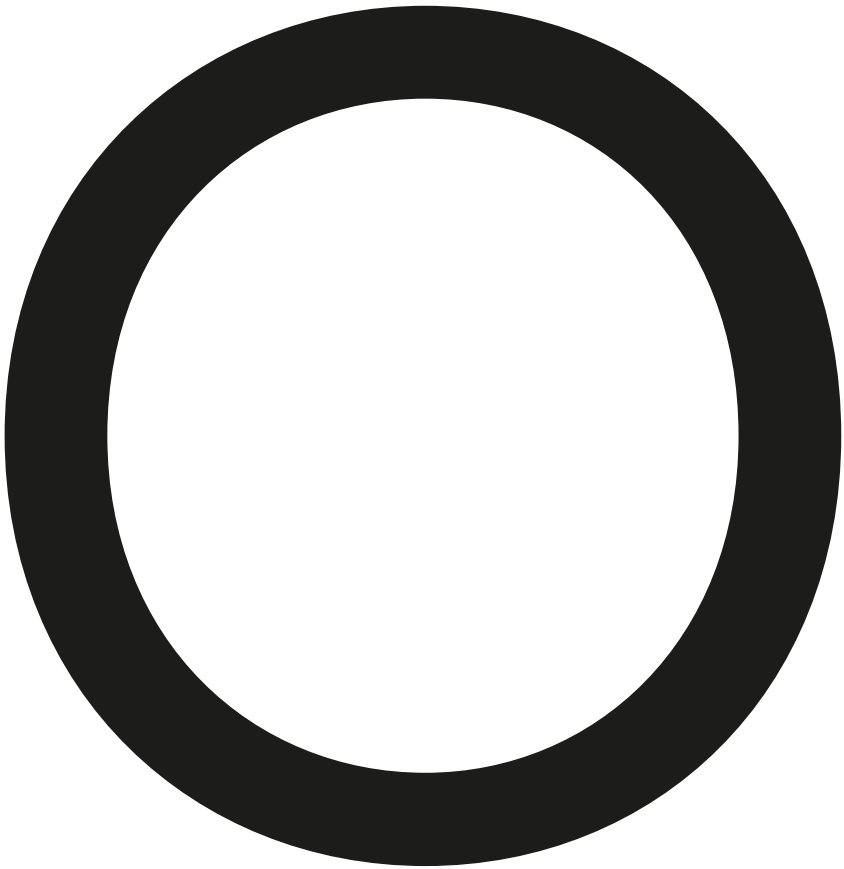

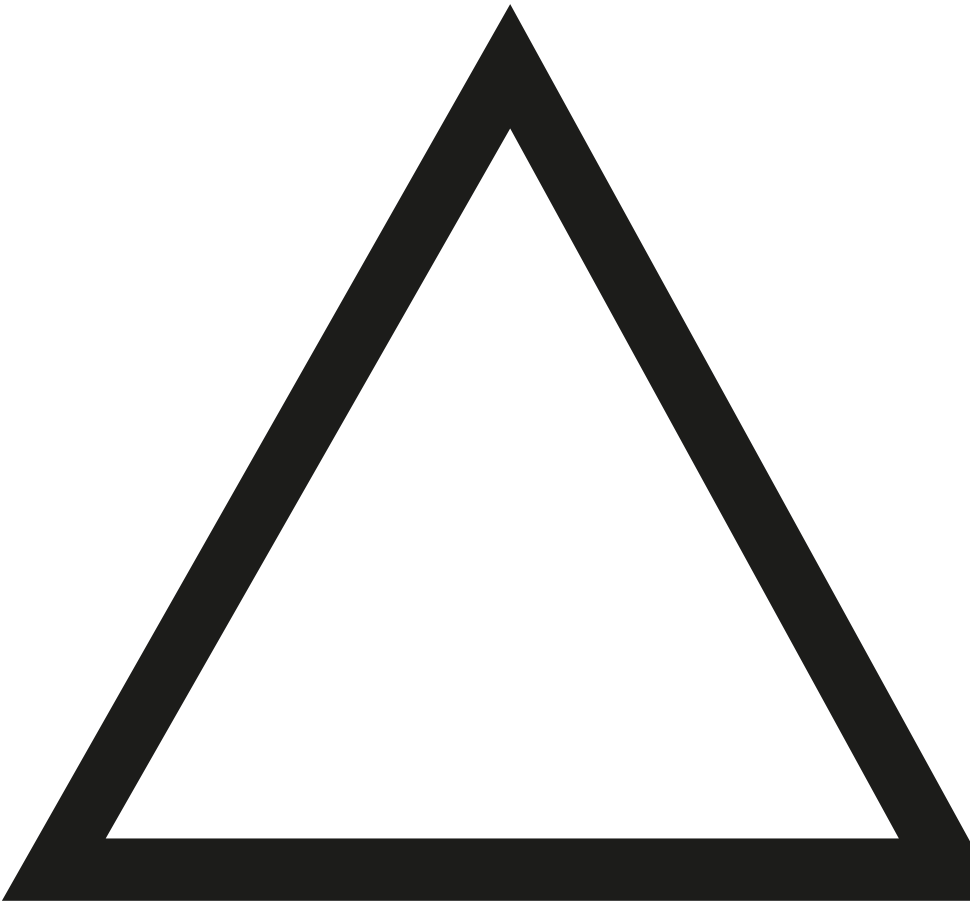

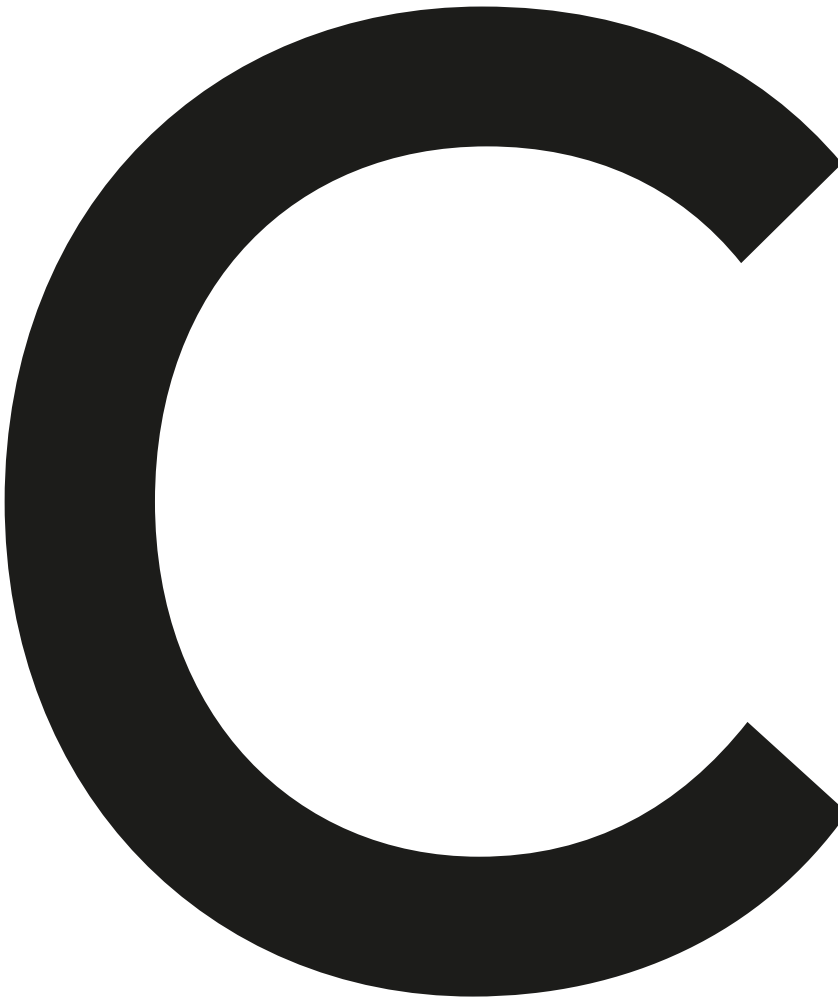

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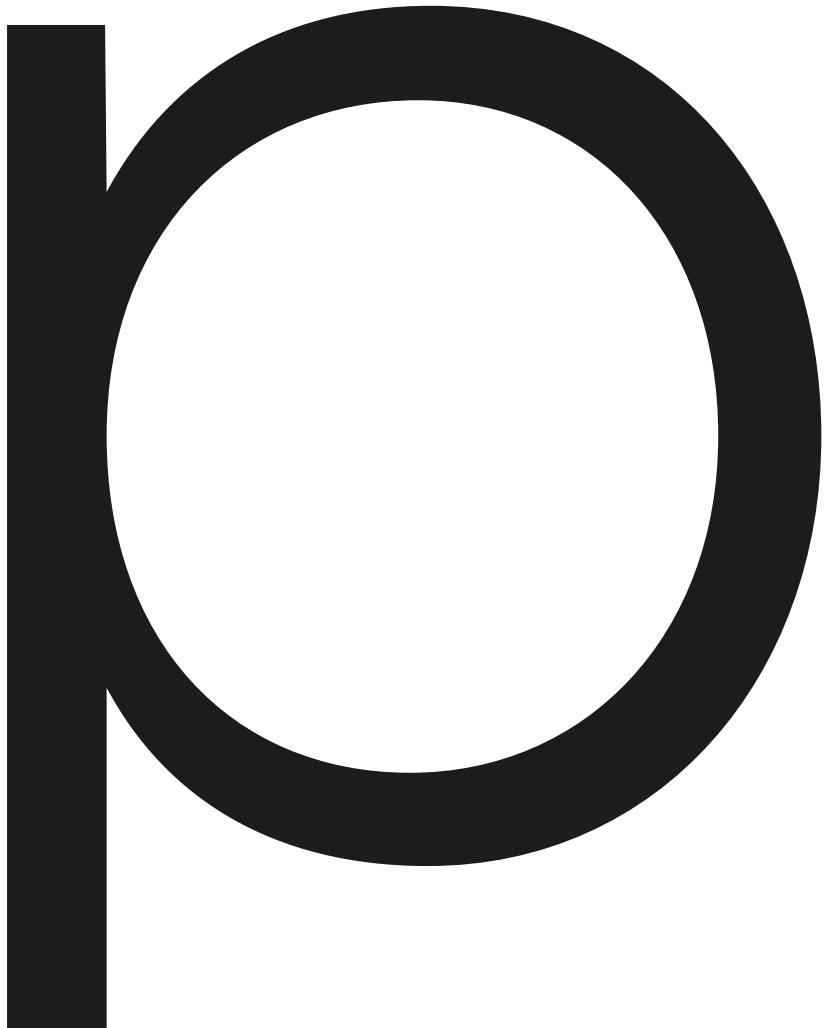

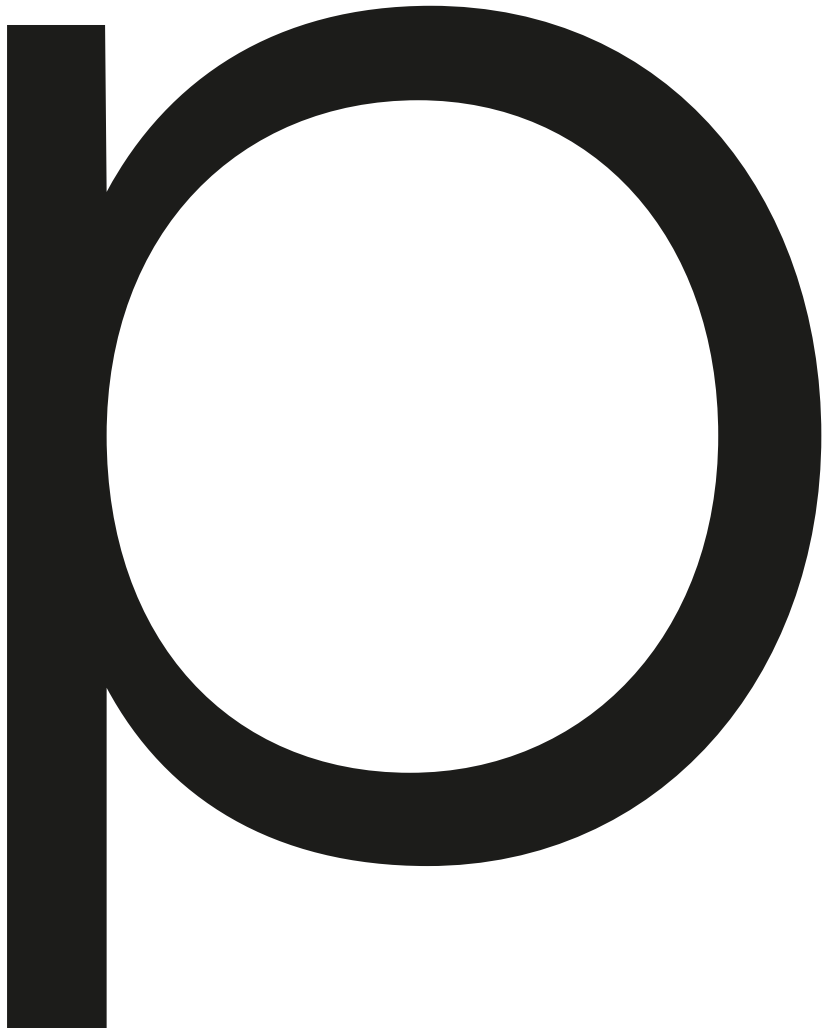

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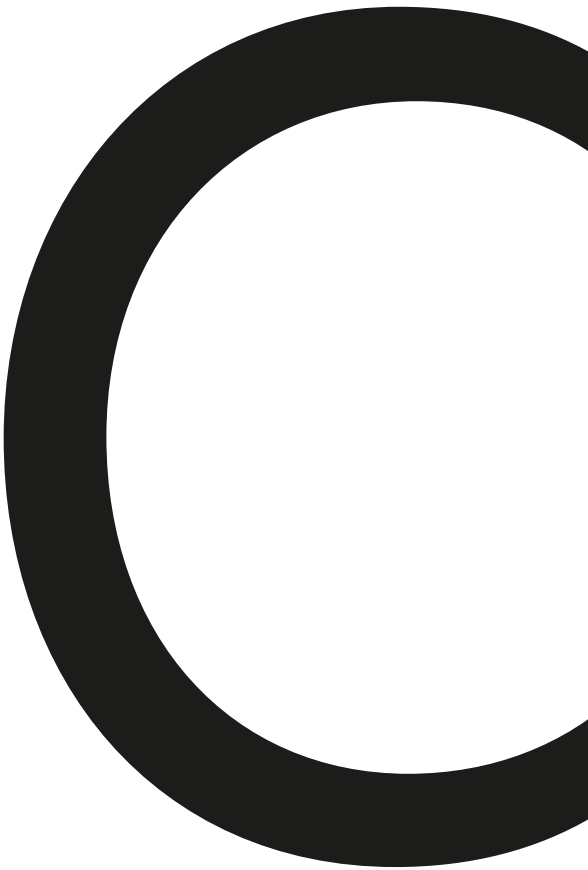

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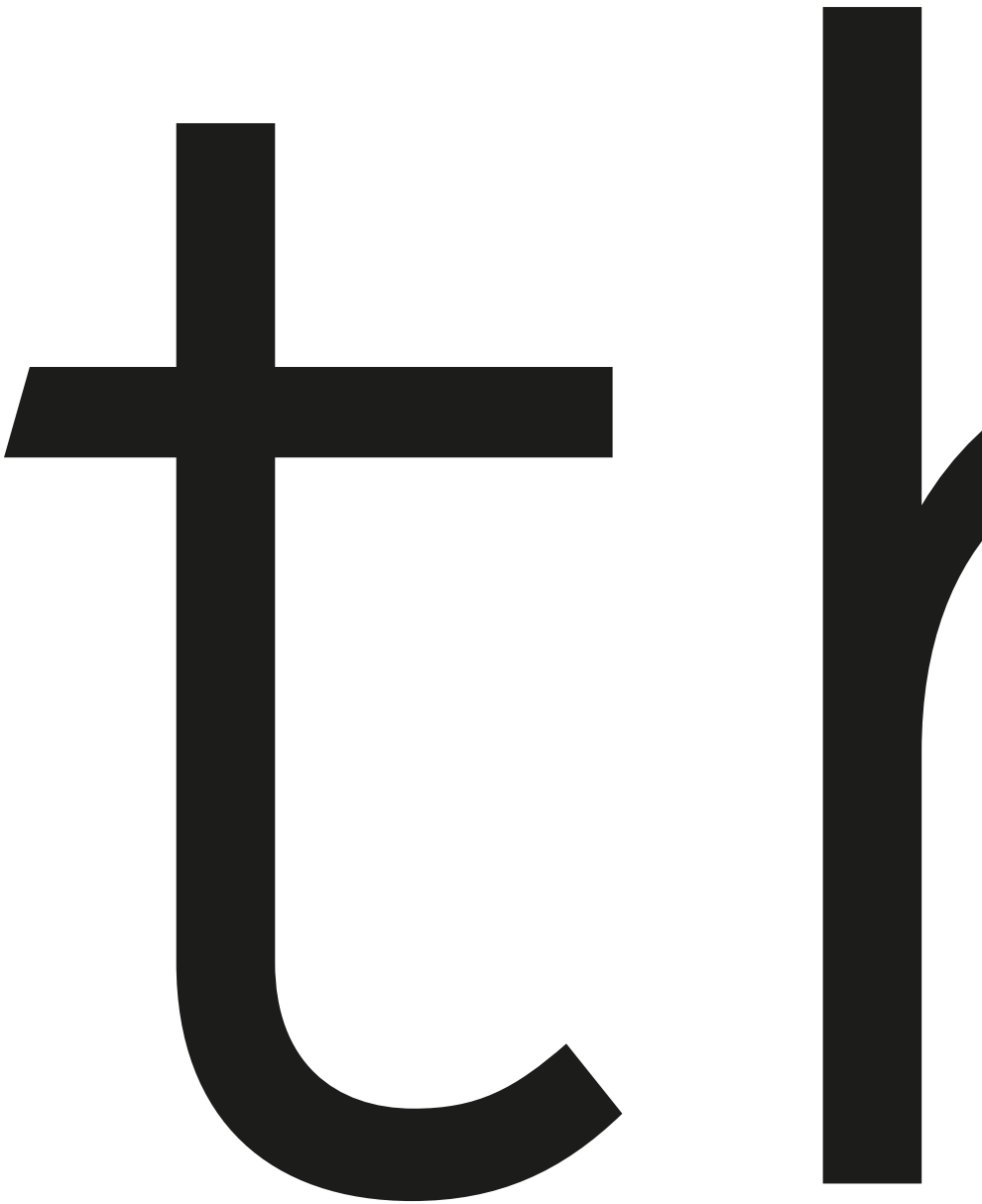

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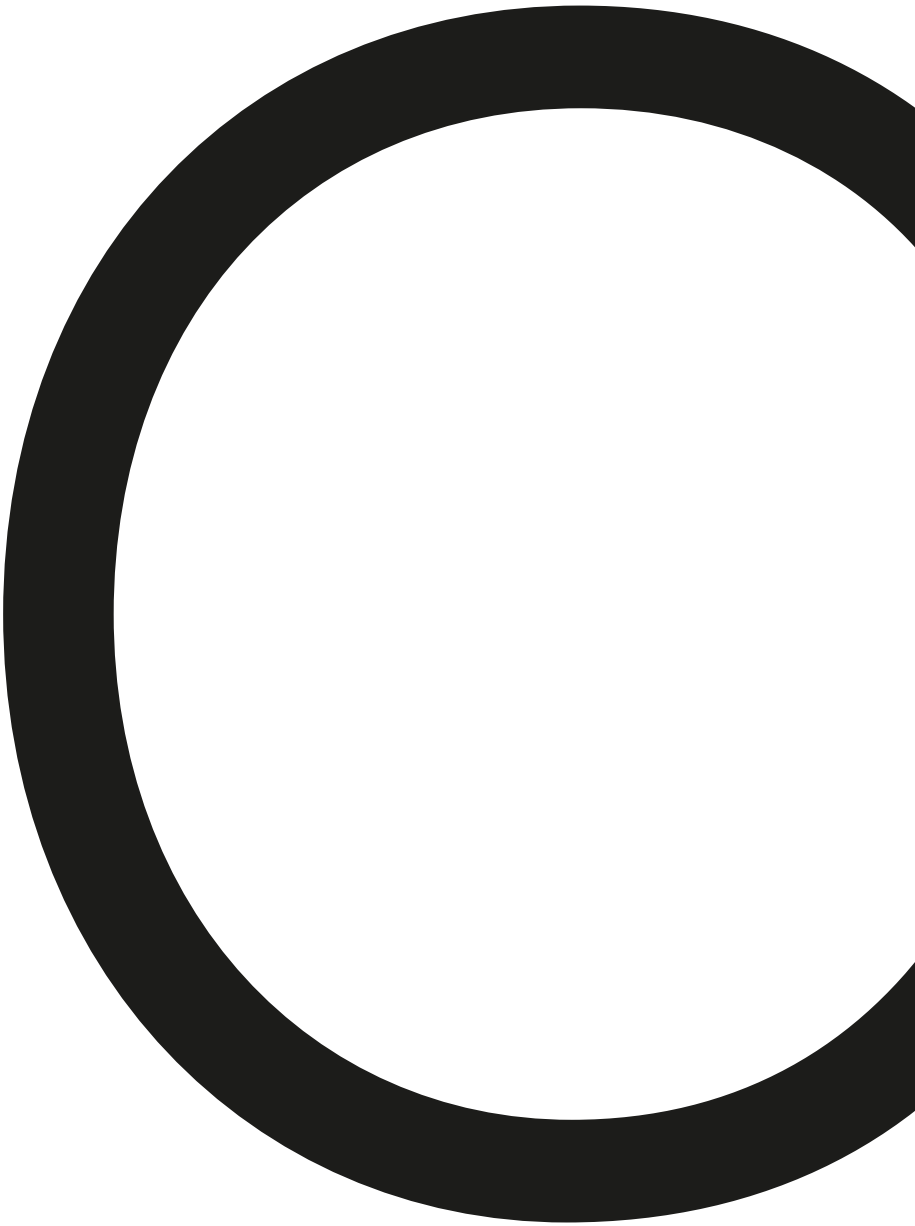

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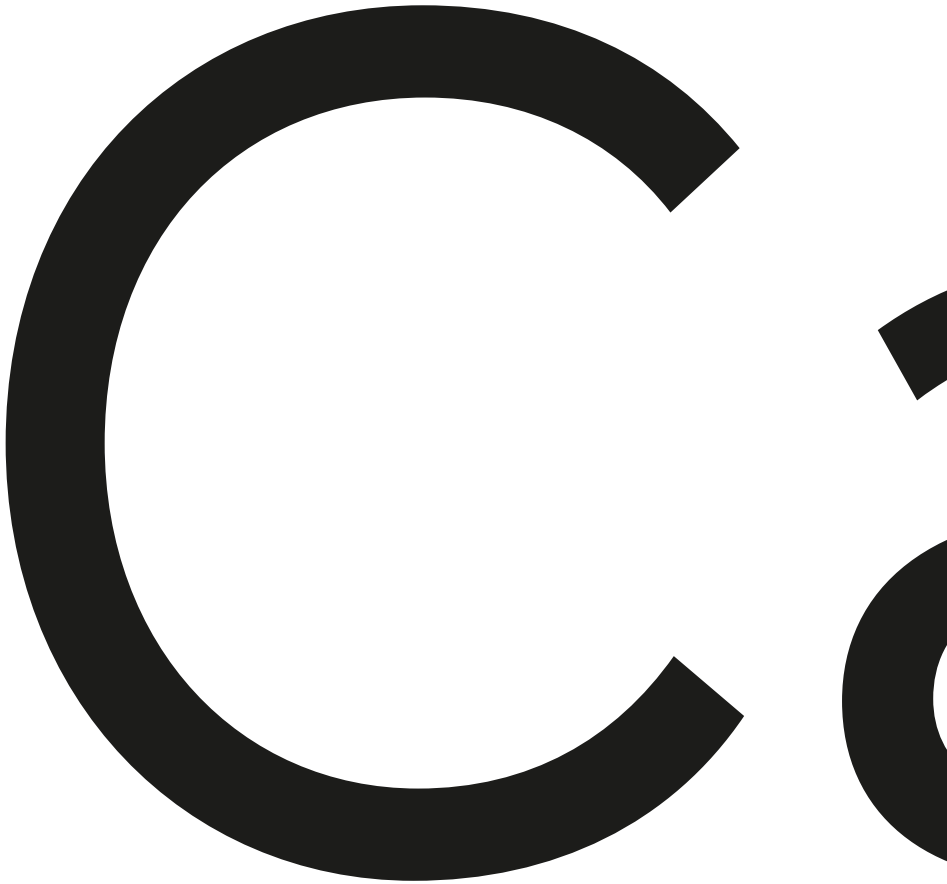

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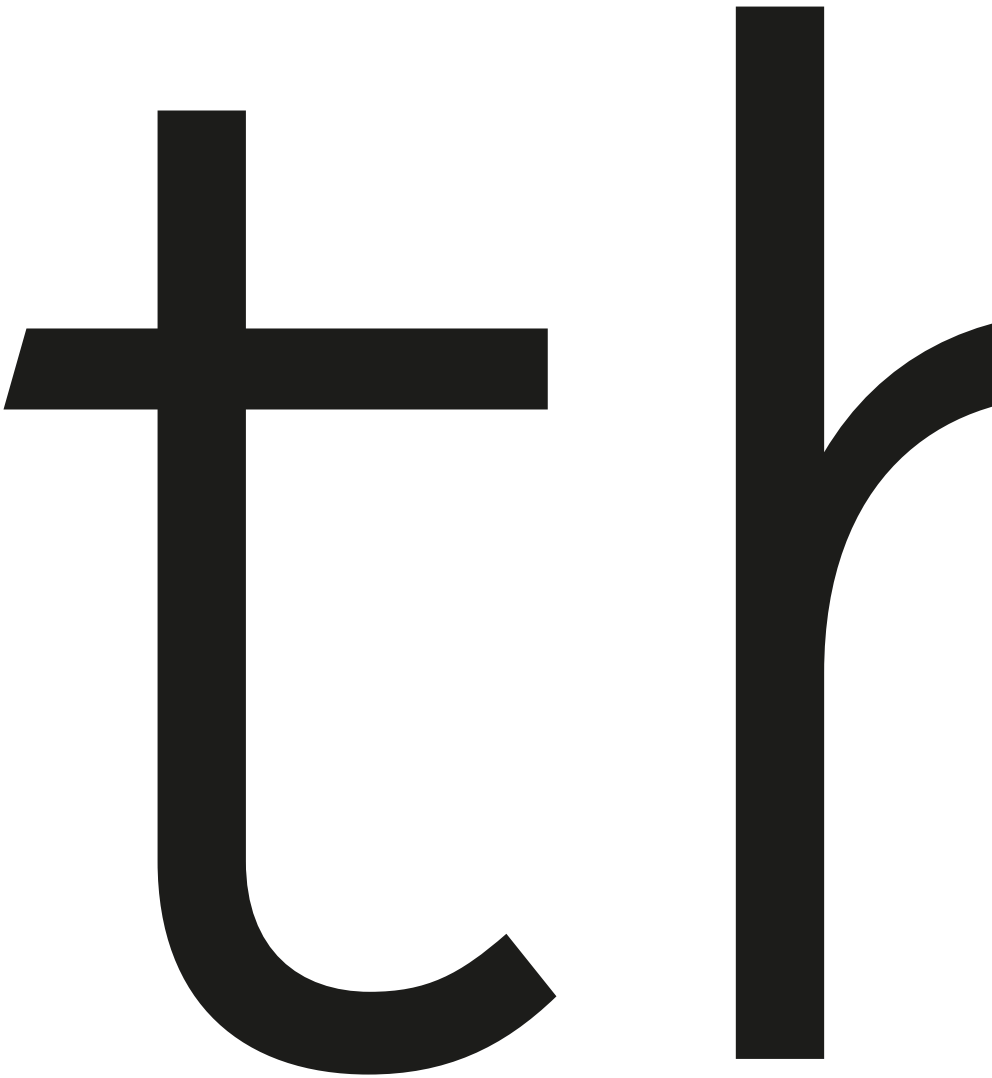

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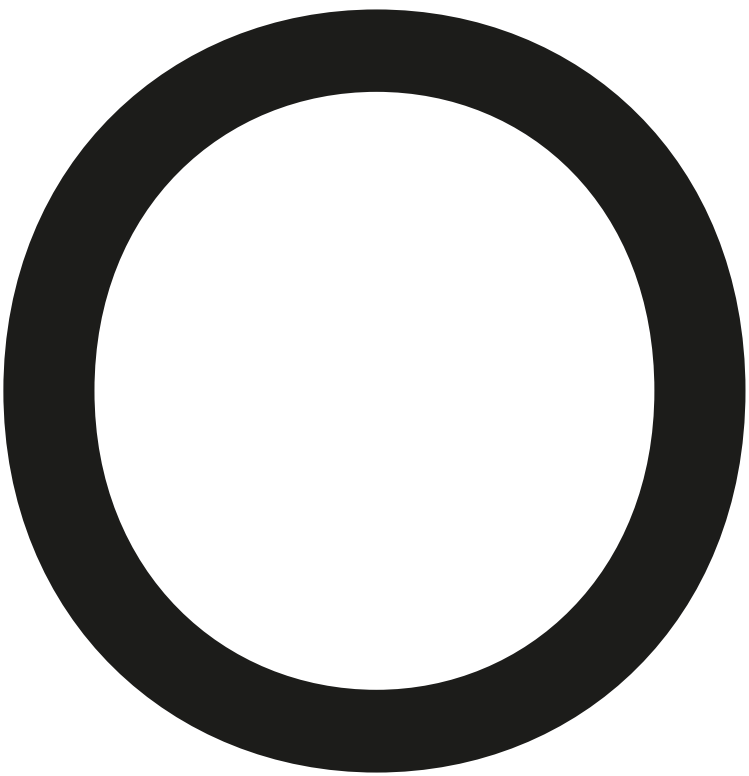

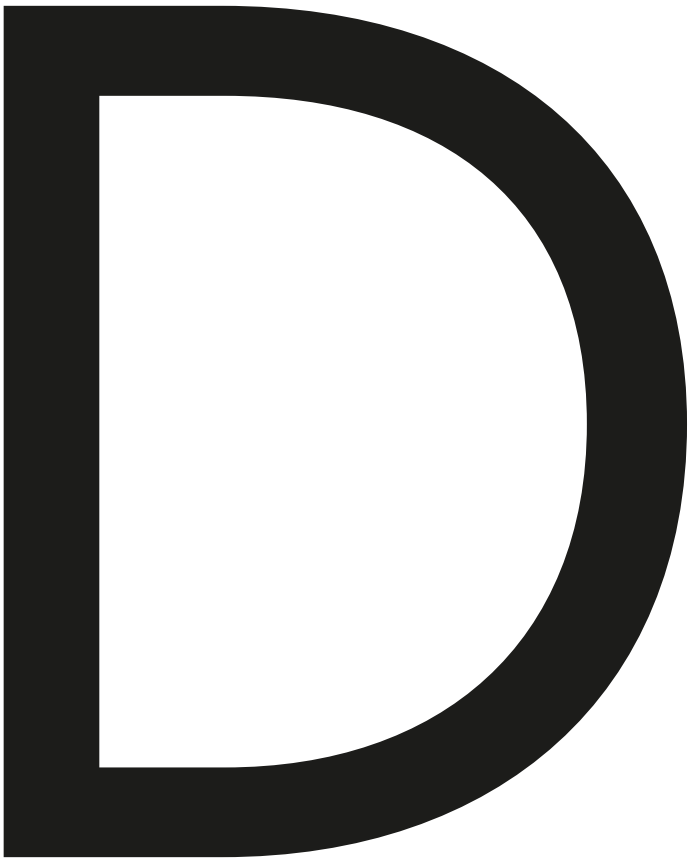

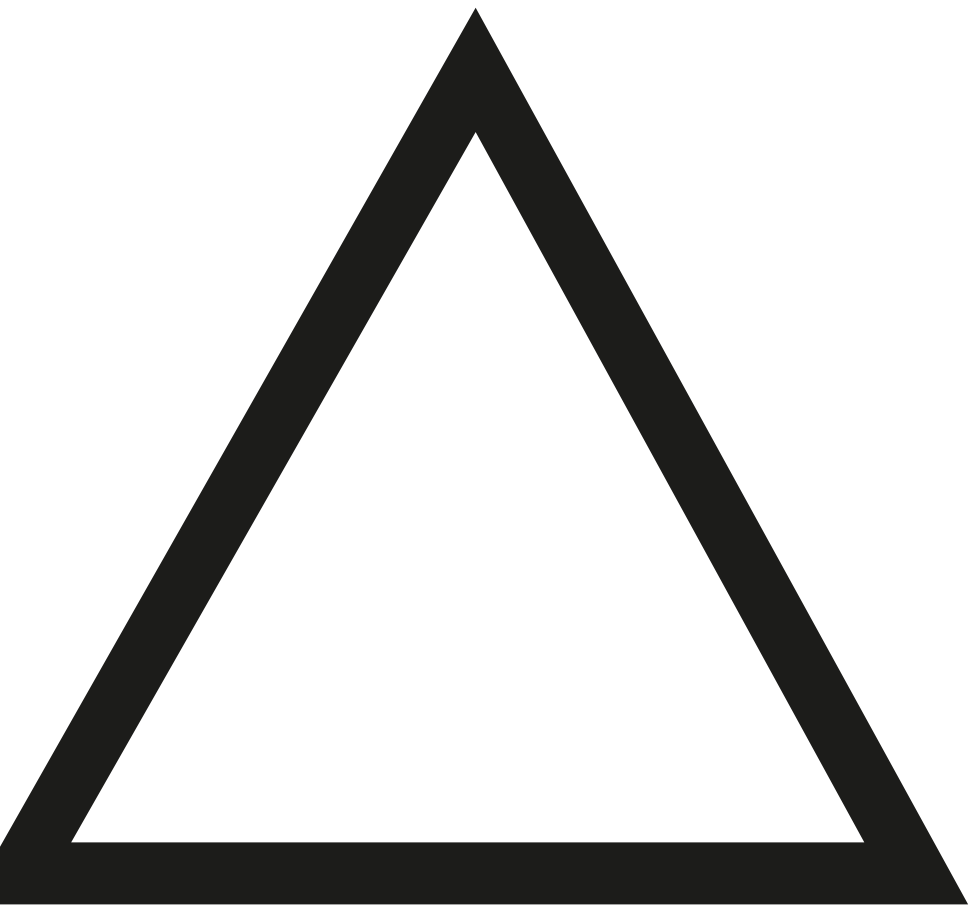

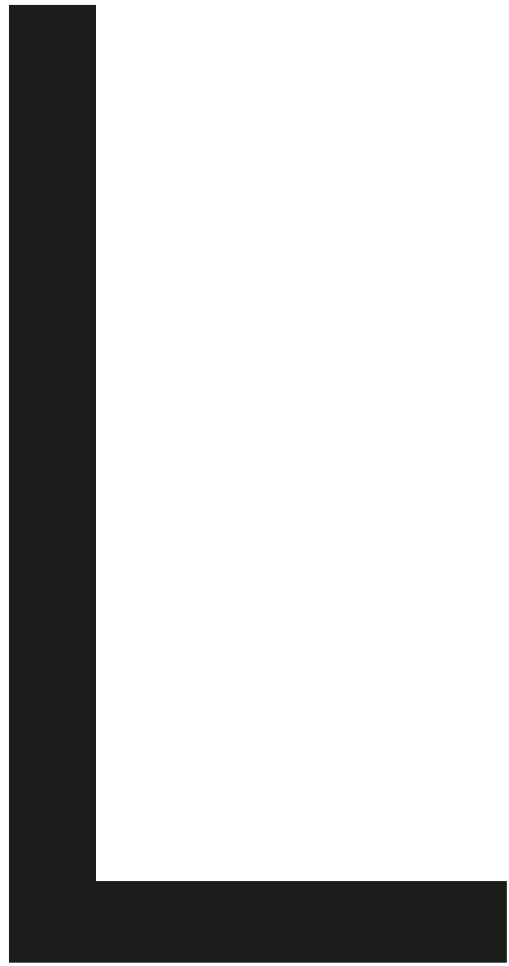

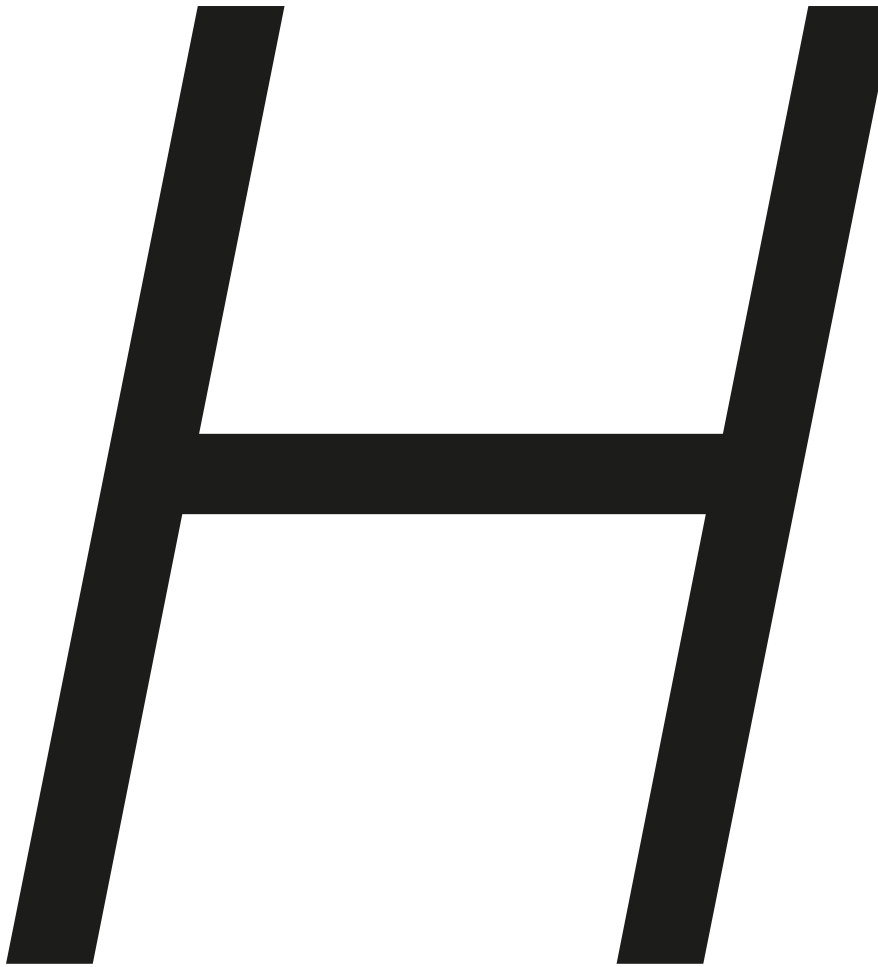

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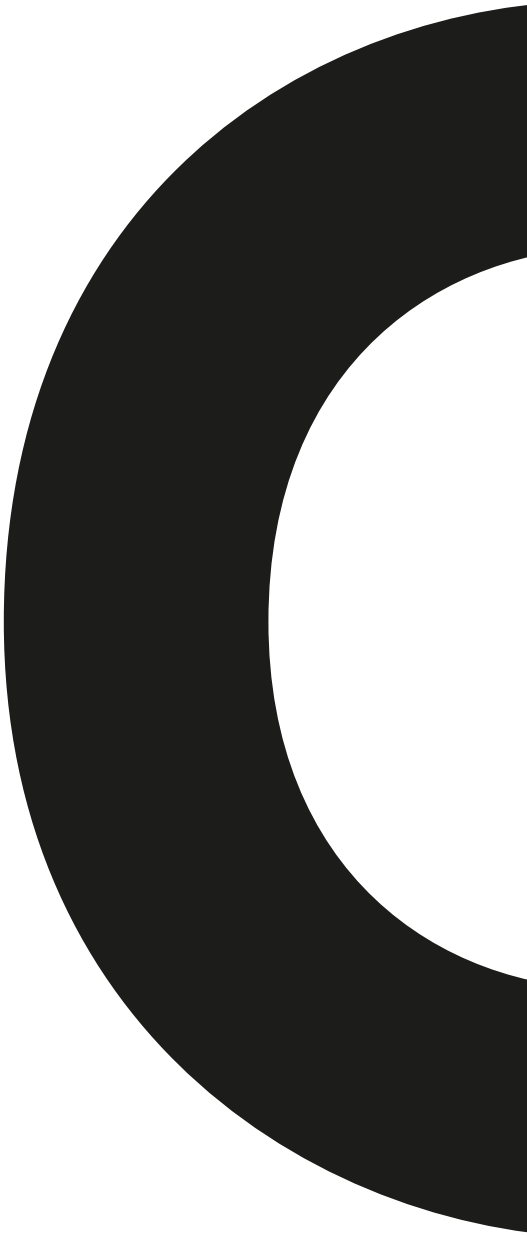

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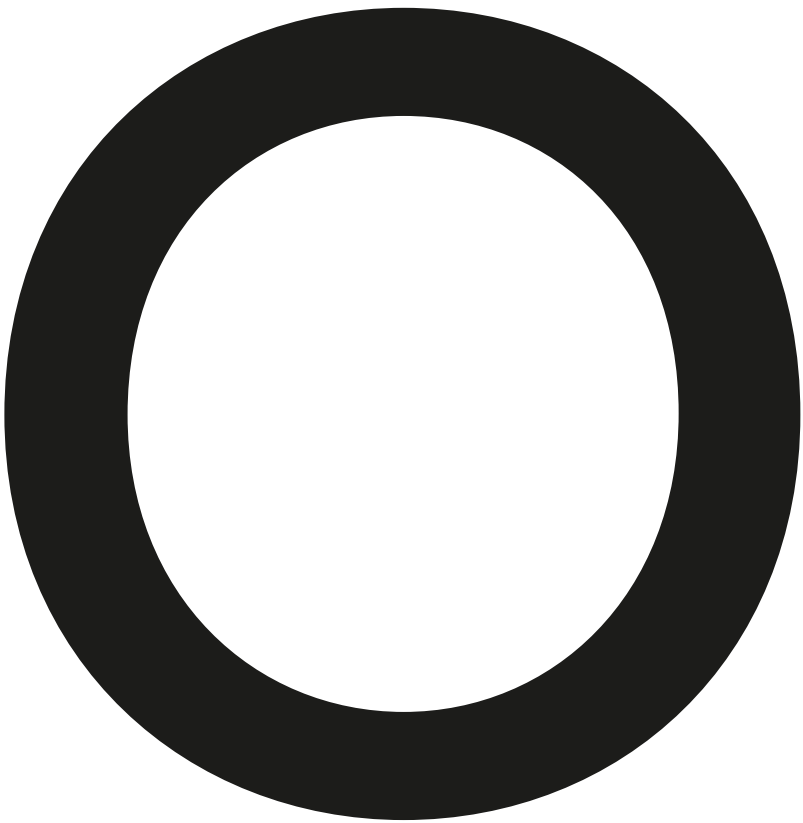

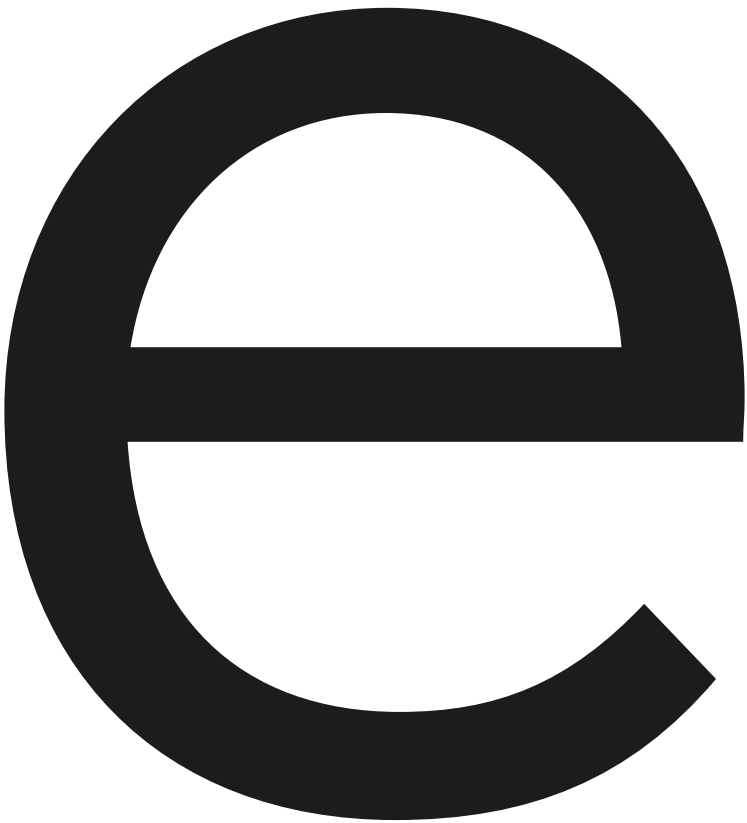

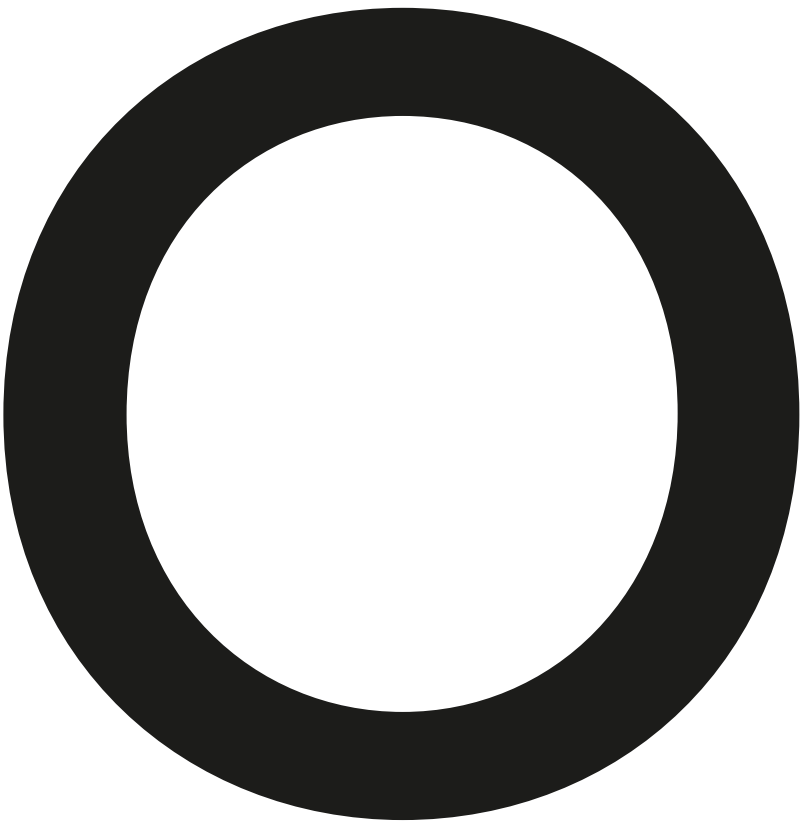

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Magnesia
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Barytes
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Zinc
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Lead
Silver
Gold
Platina
Mercury

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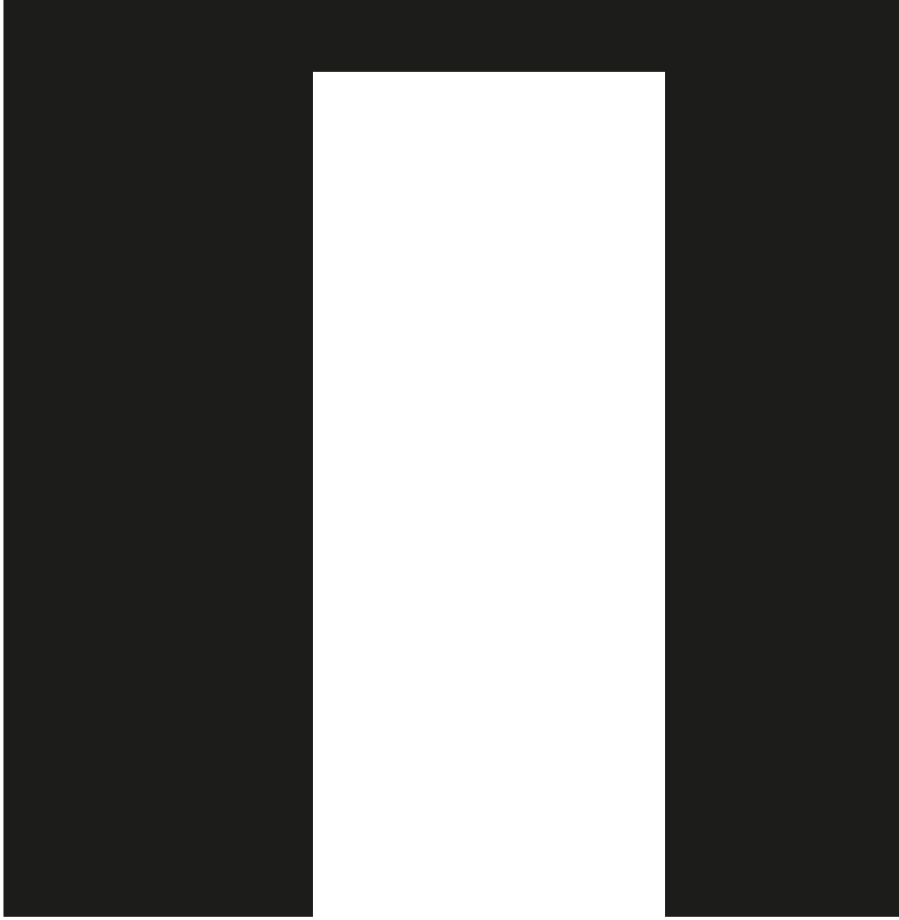

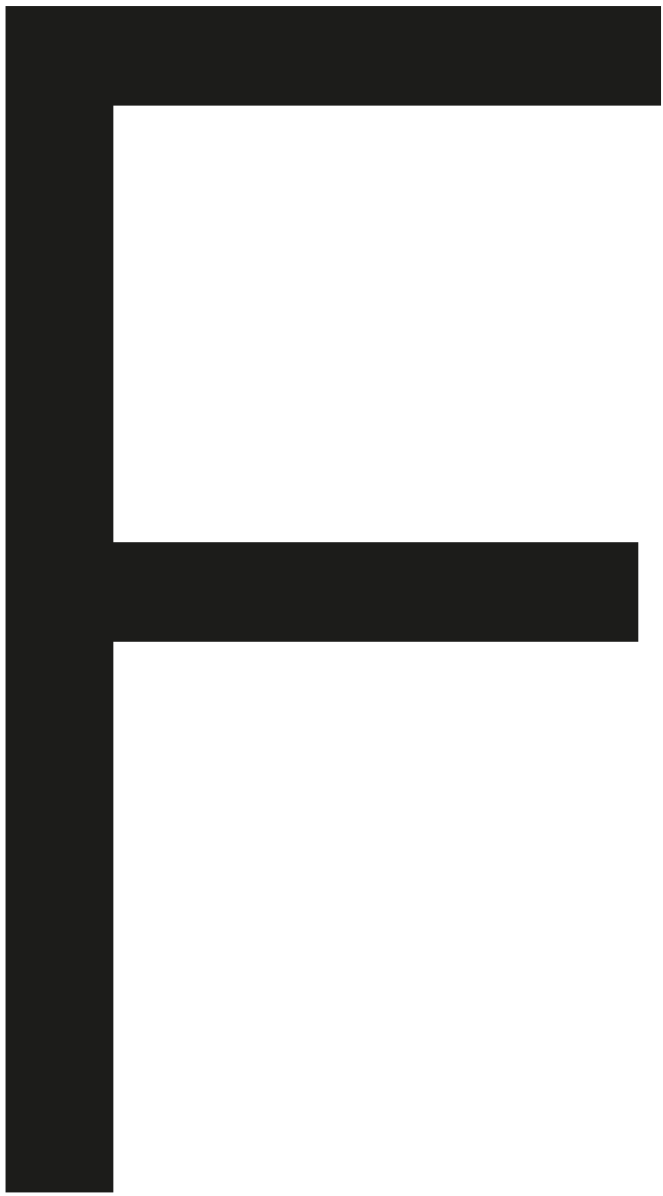

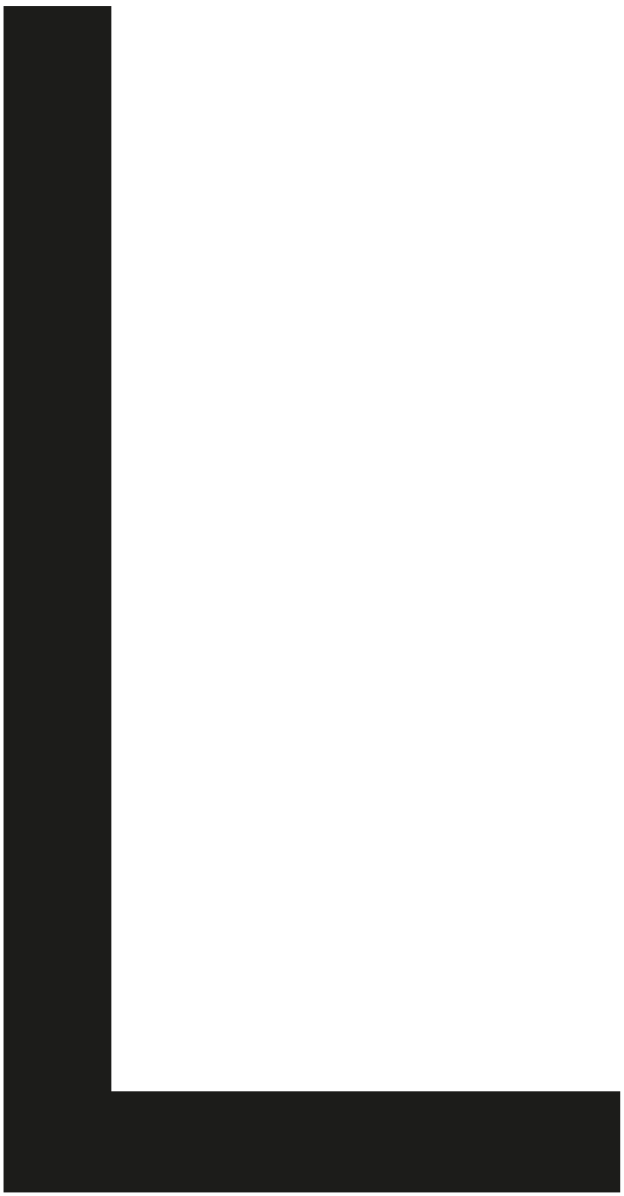

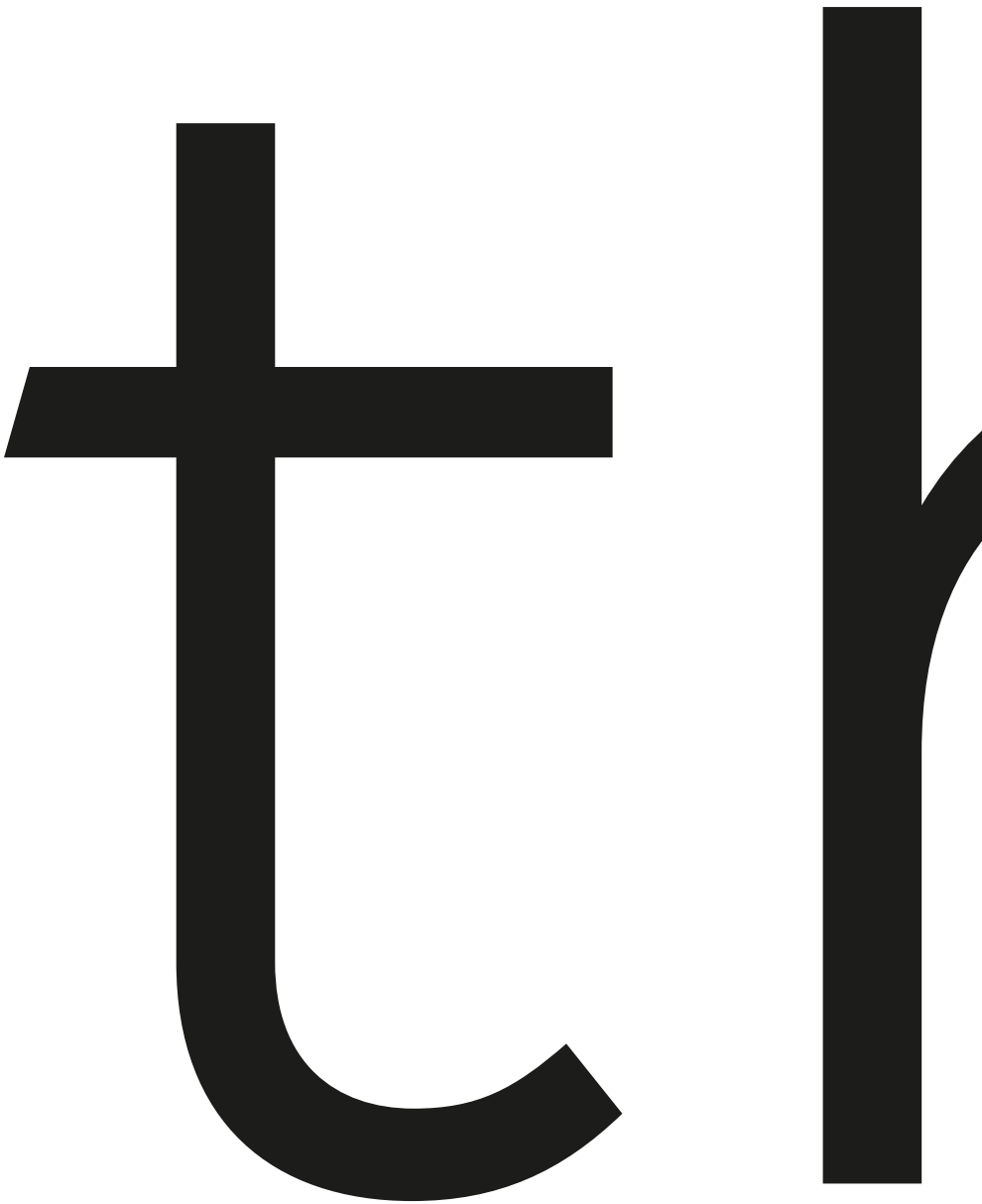

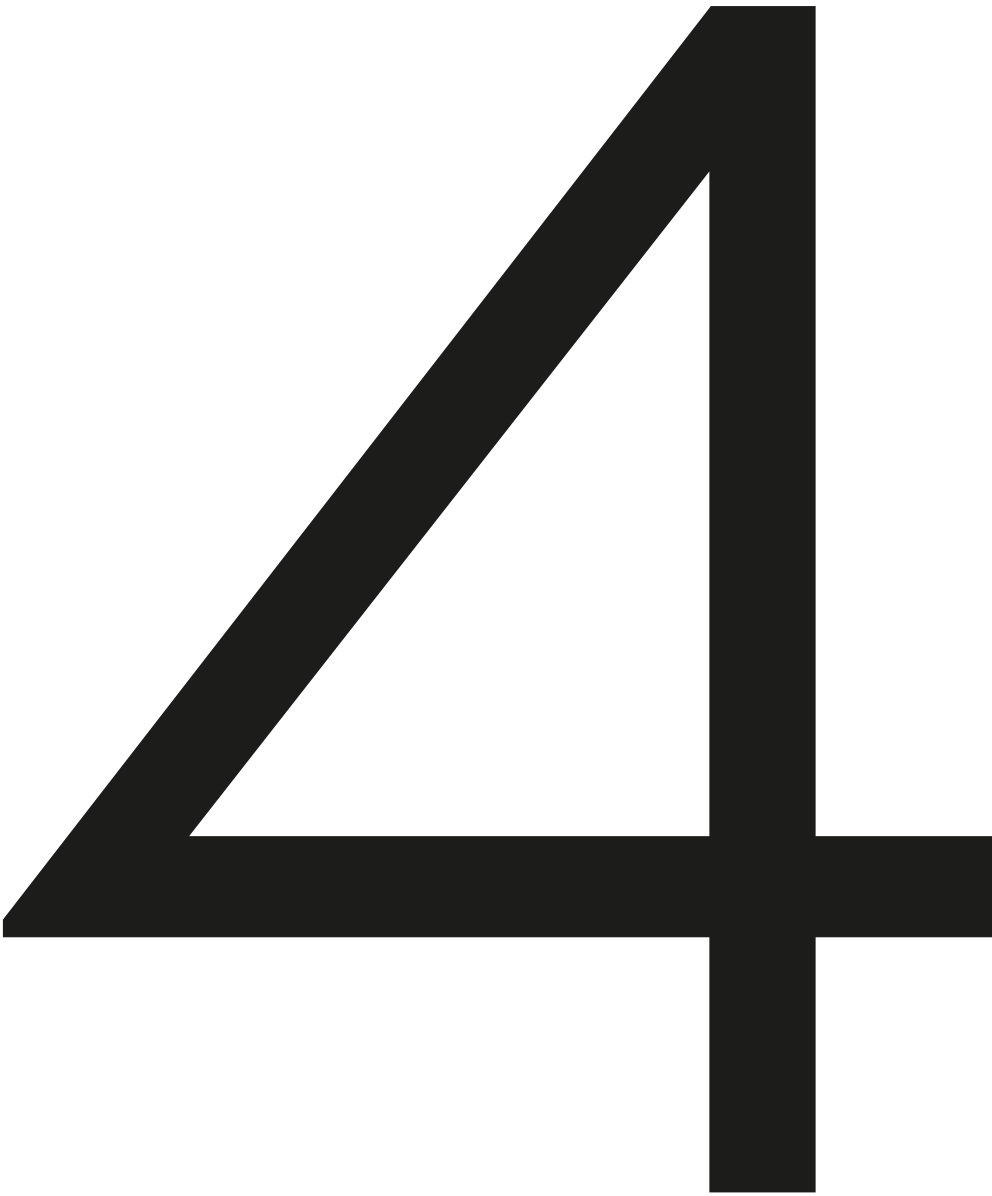

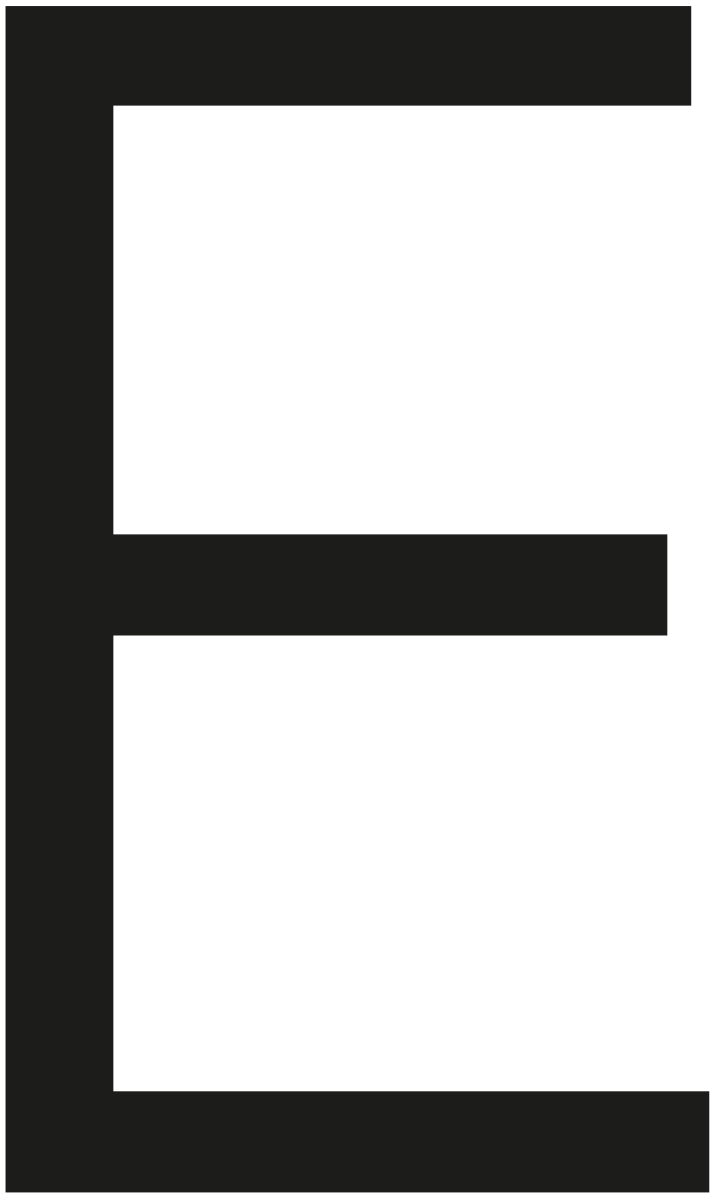

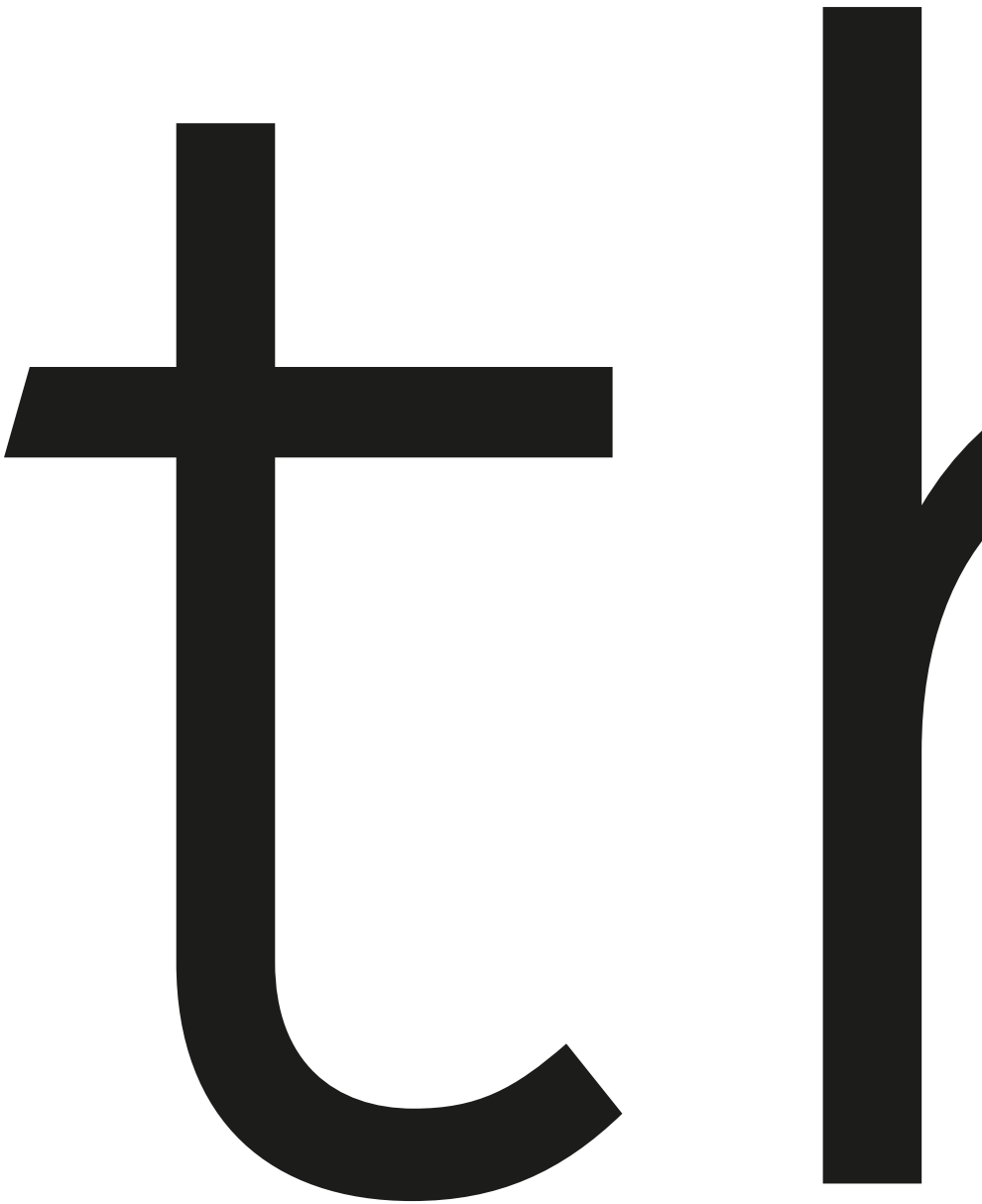

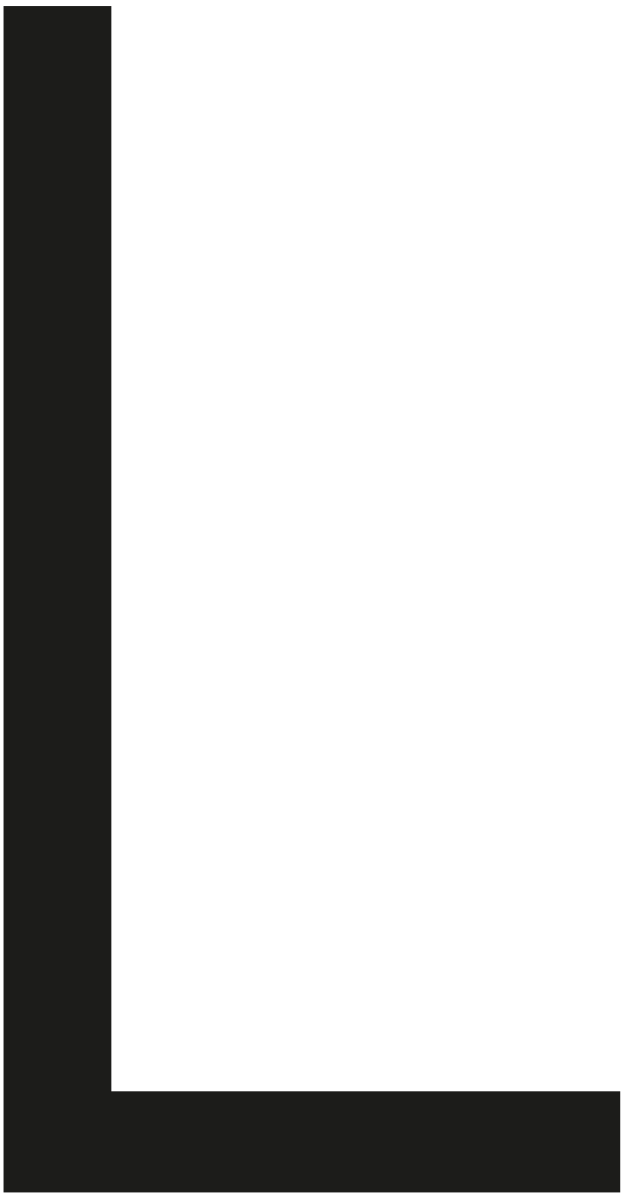

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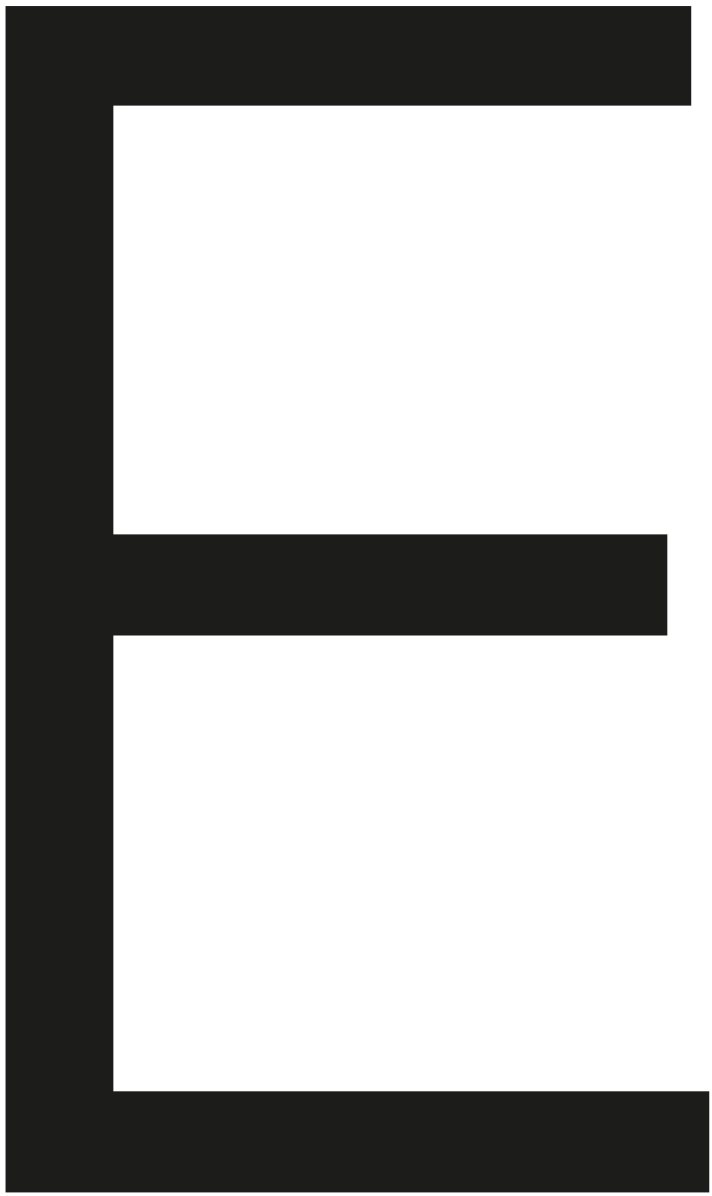

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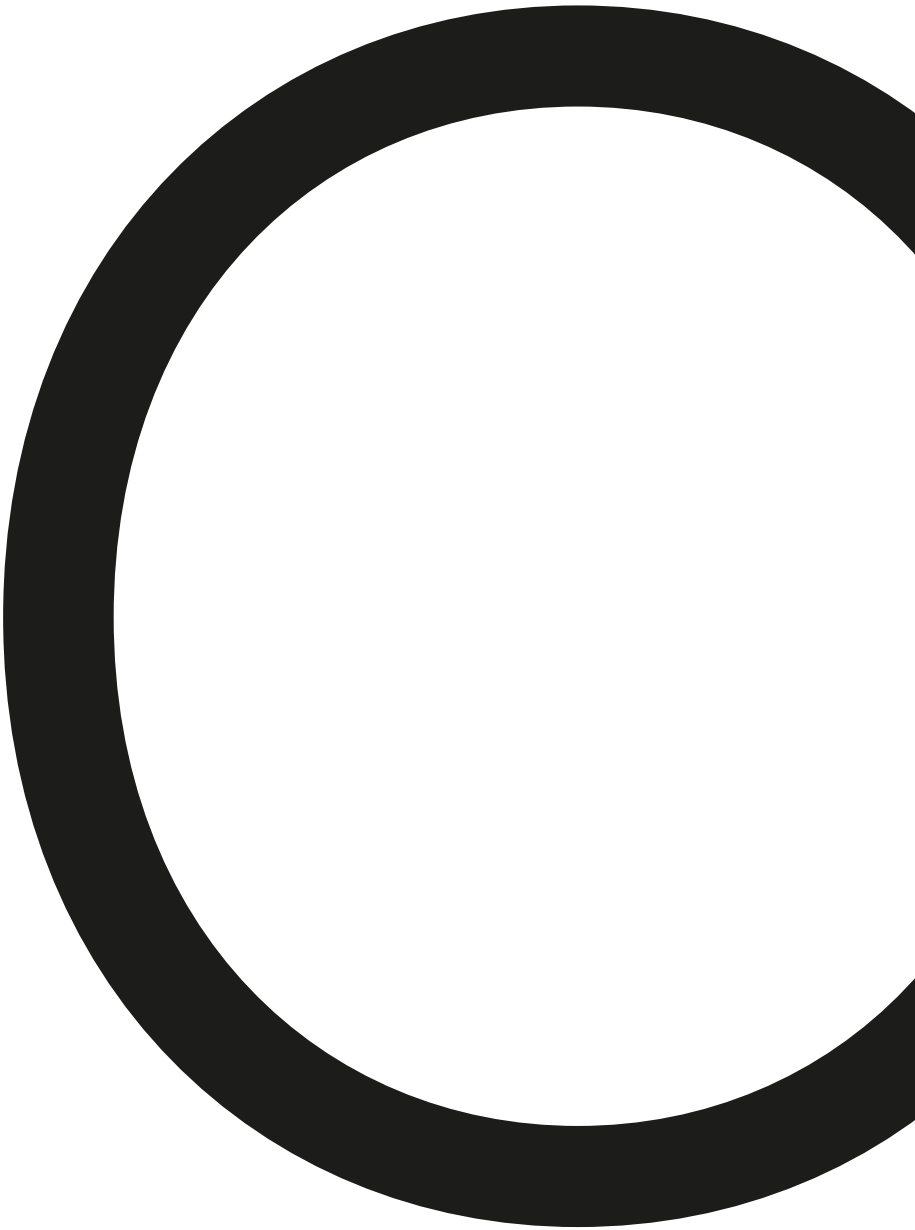

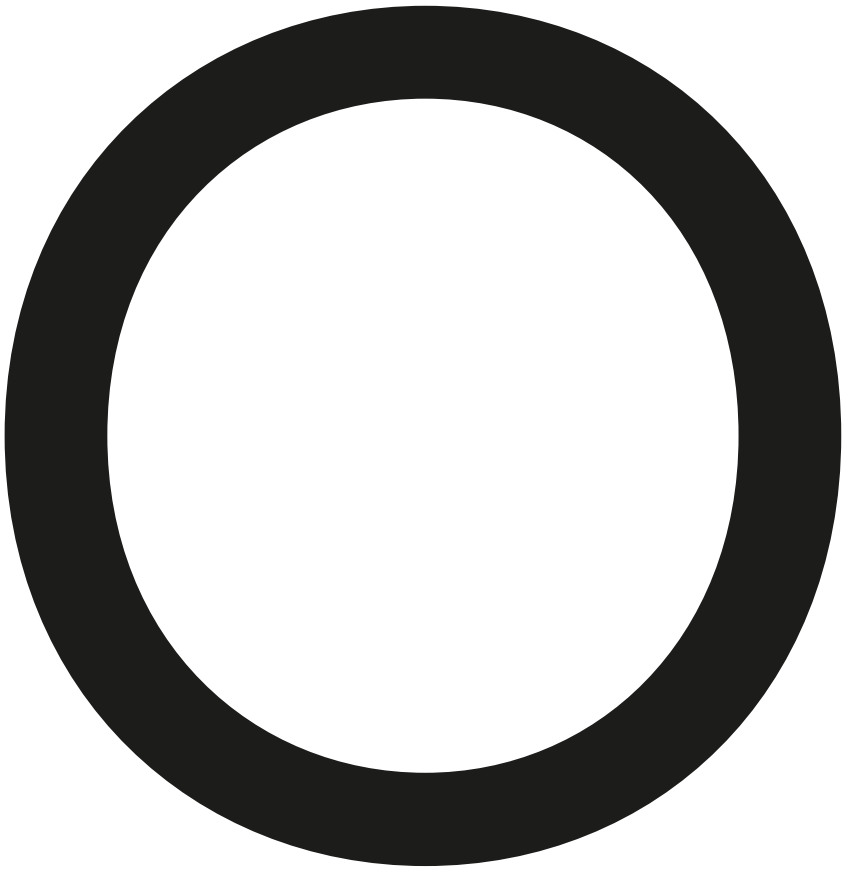

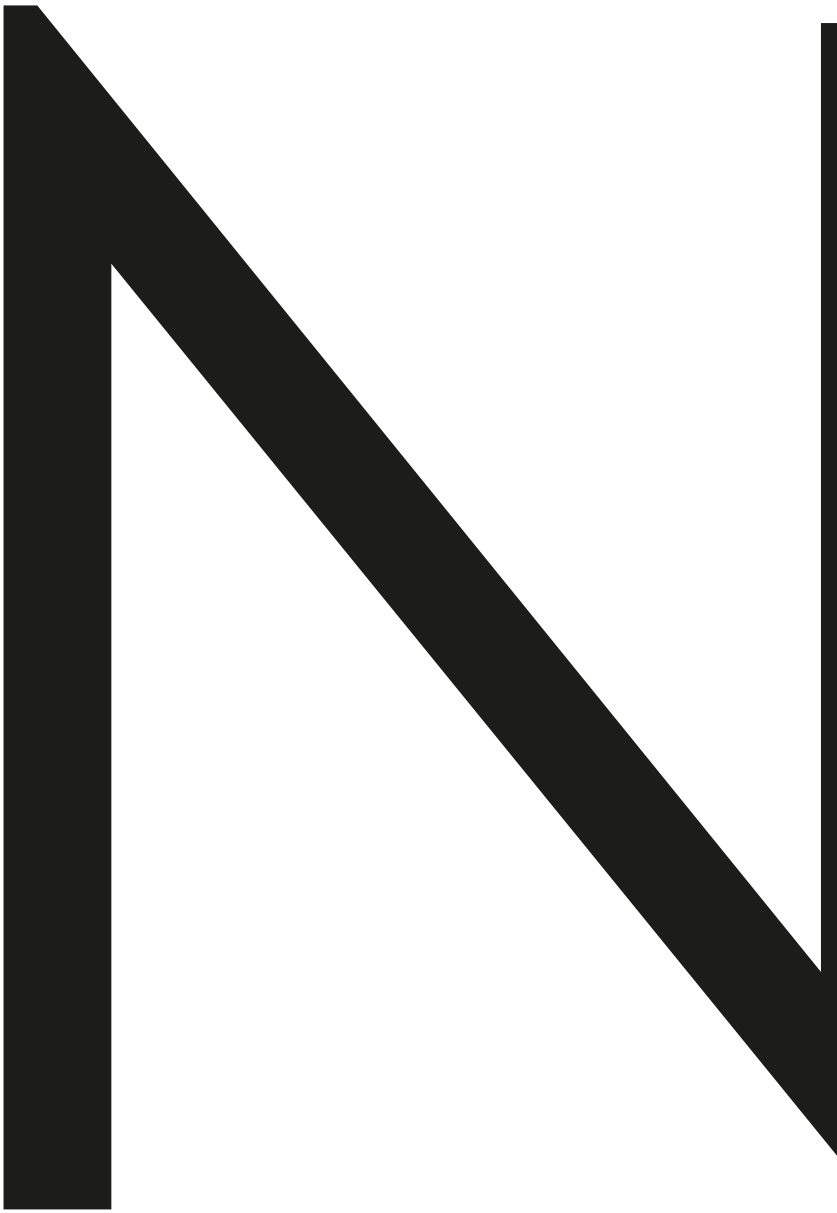

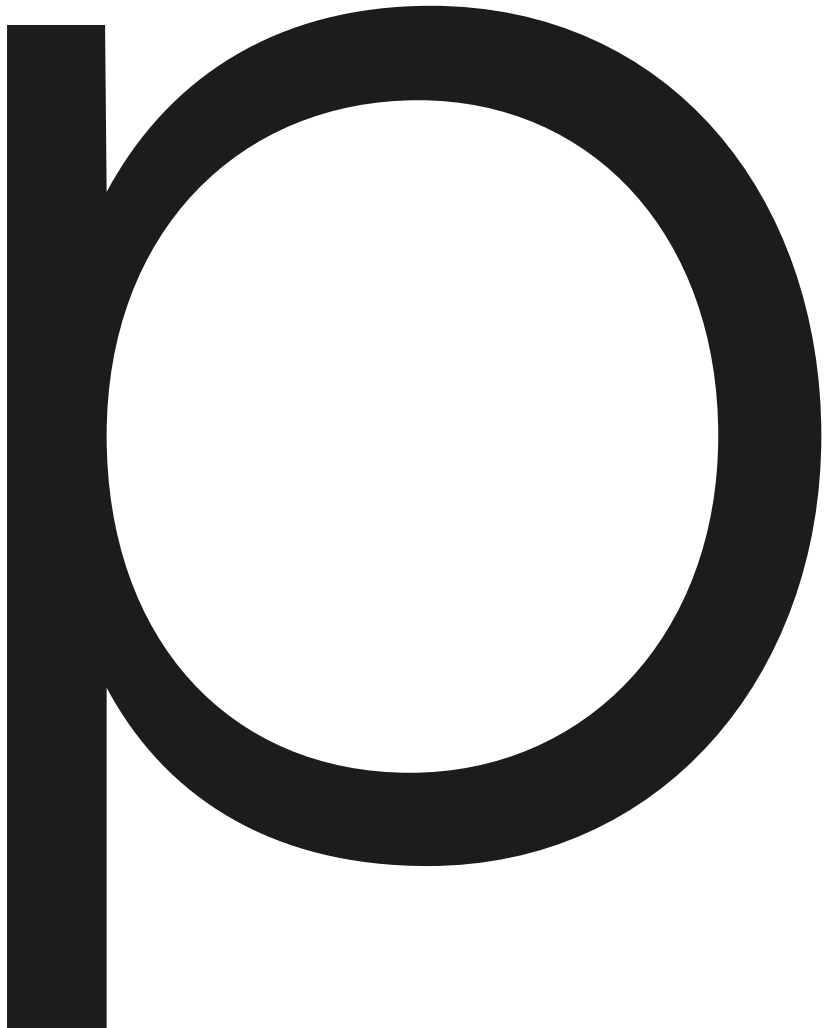

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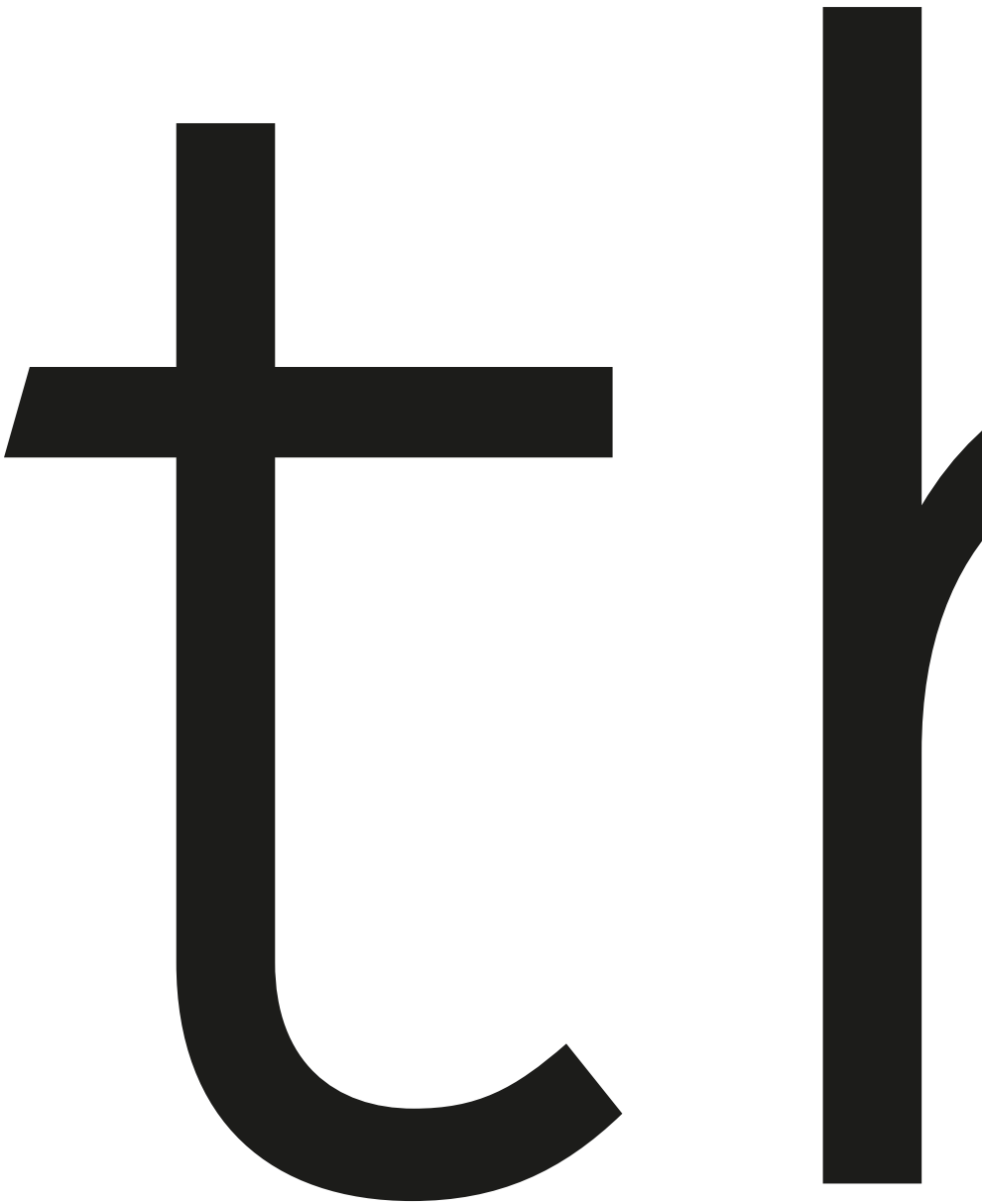

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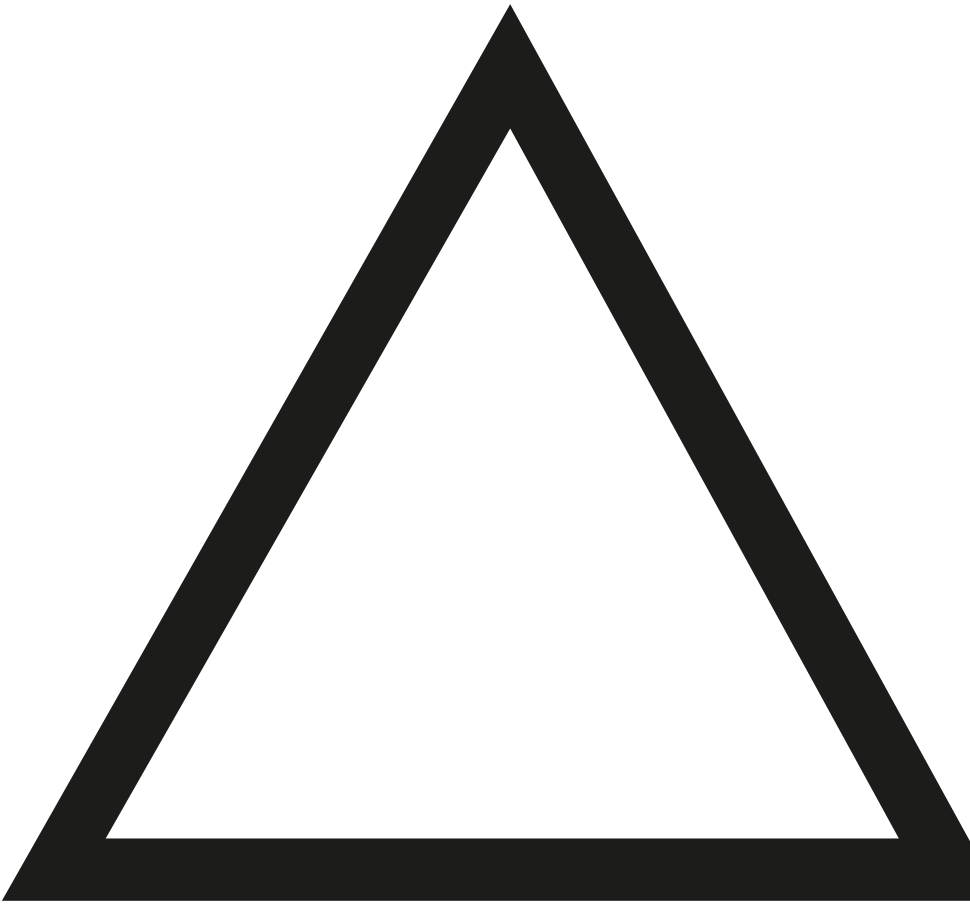

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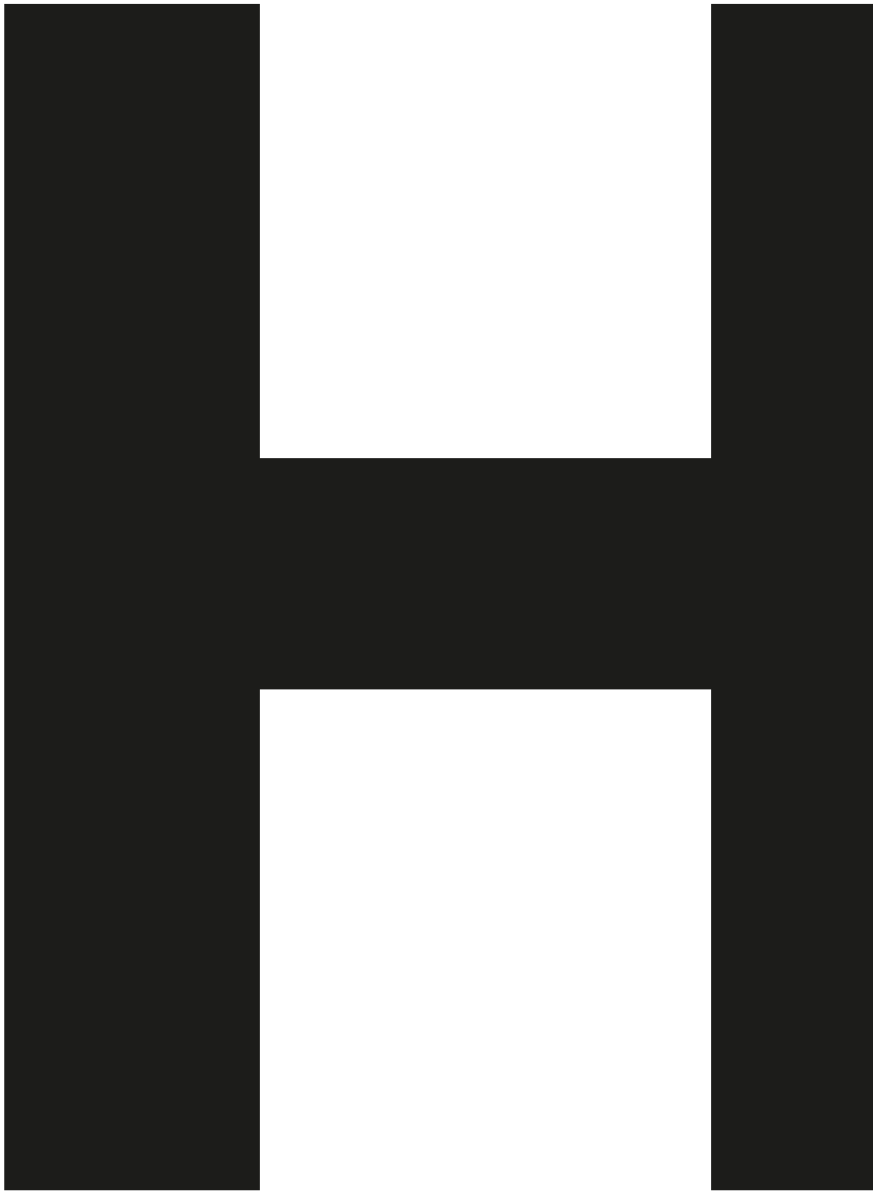

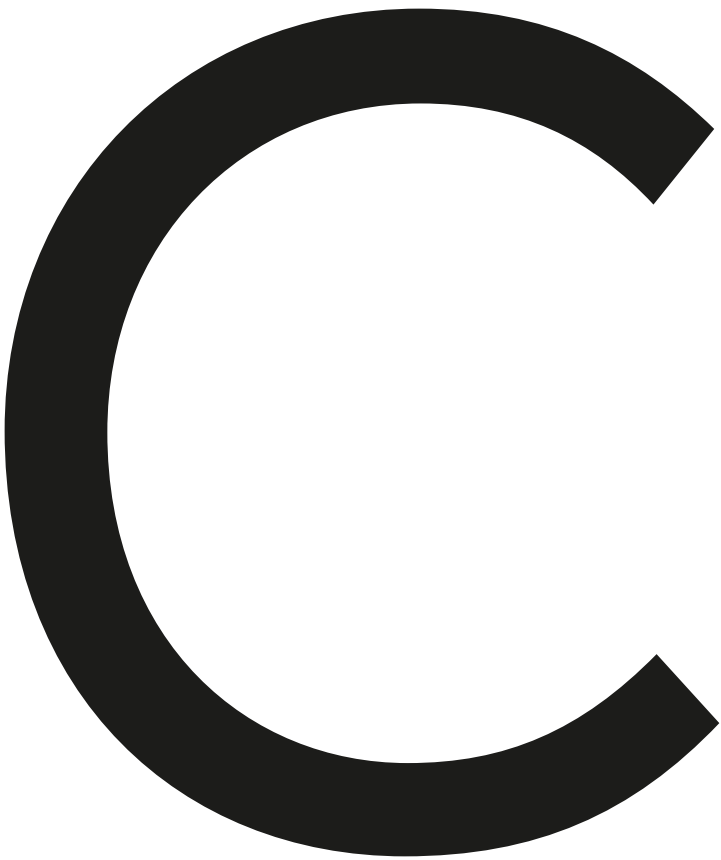

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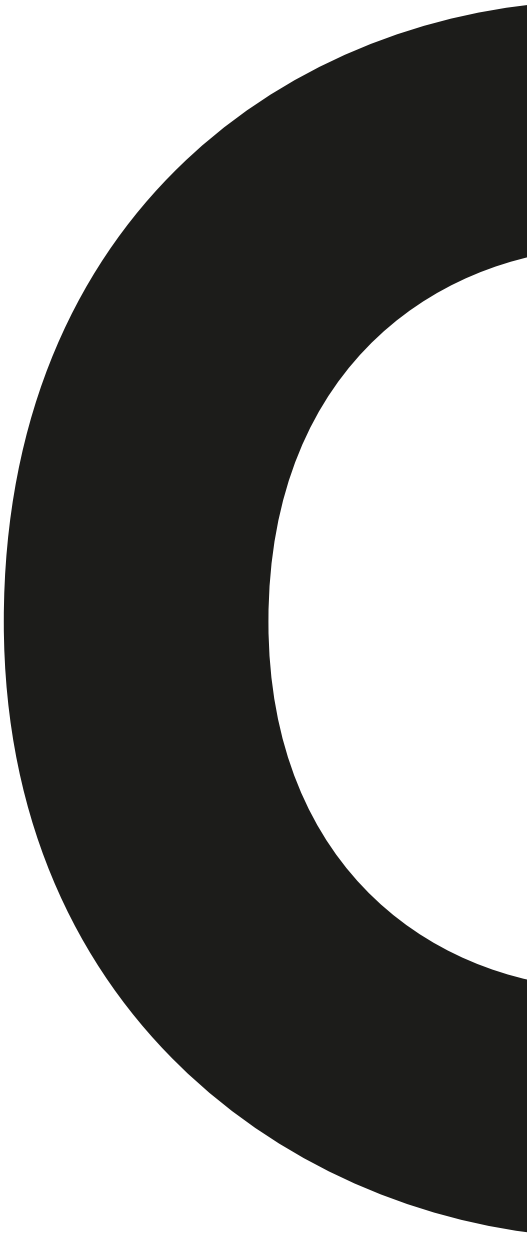

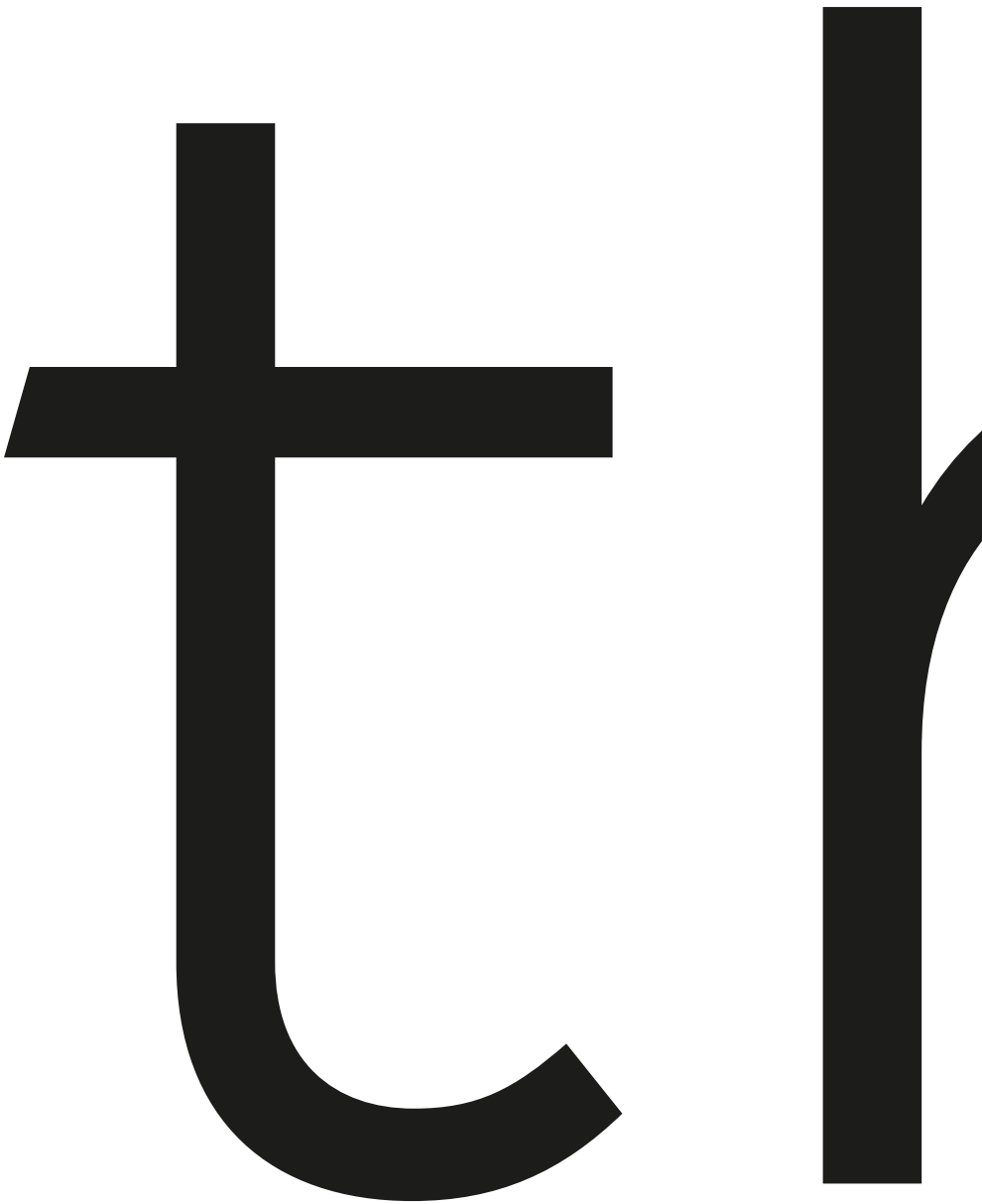

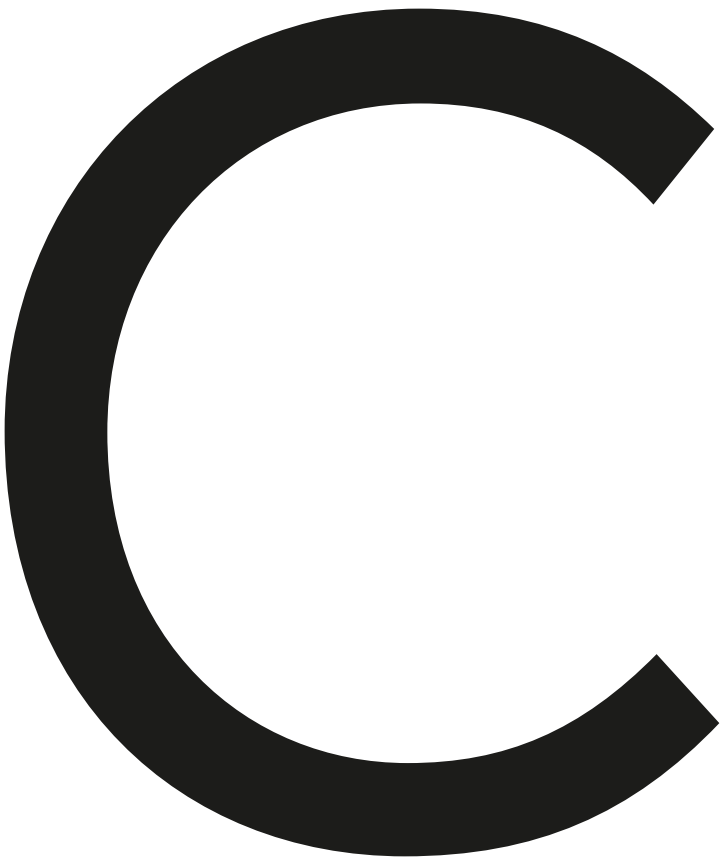

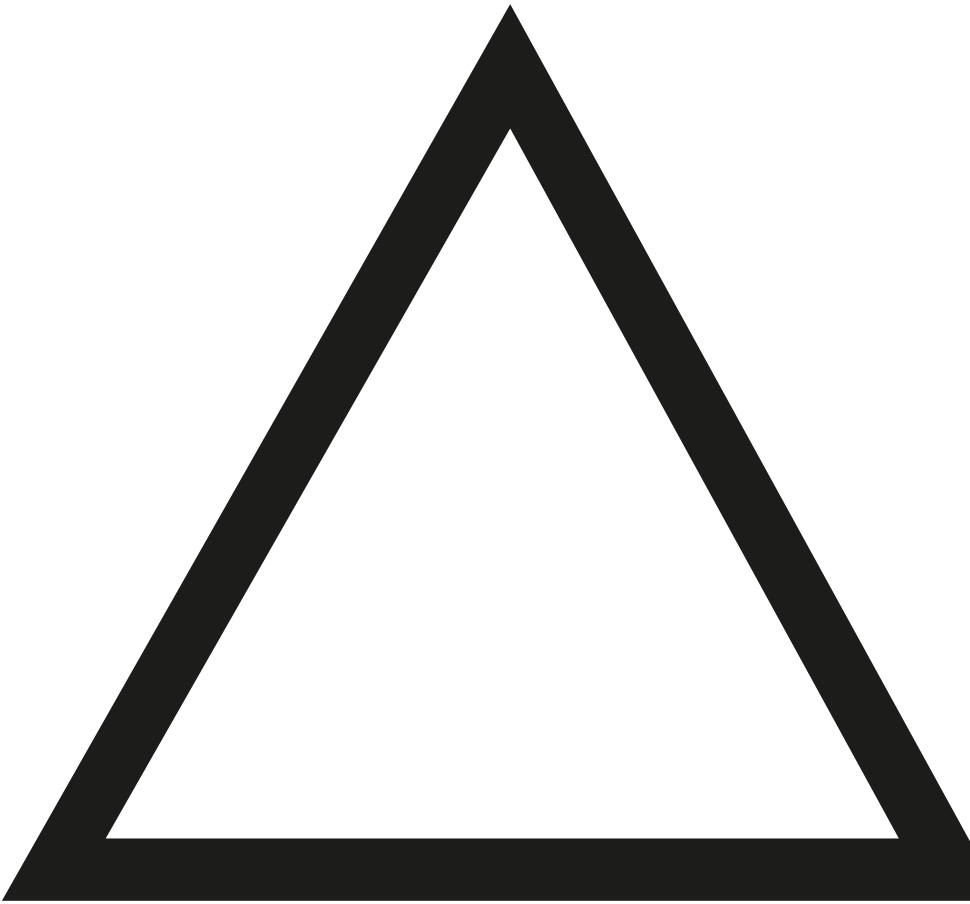

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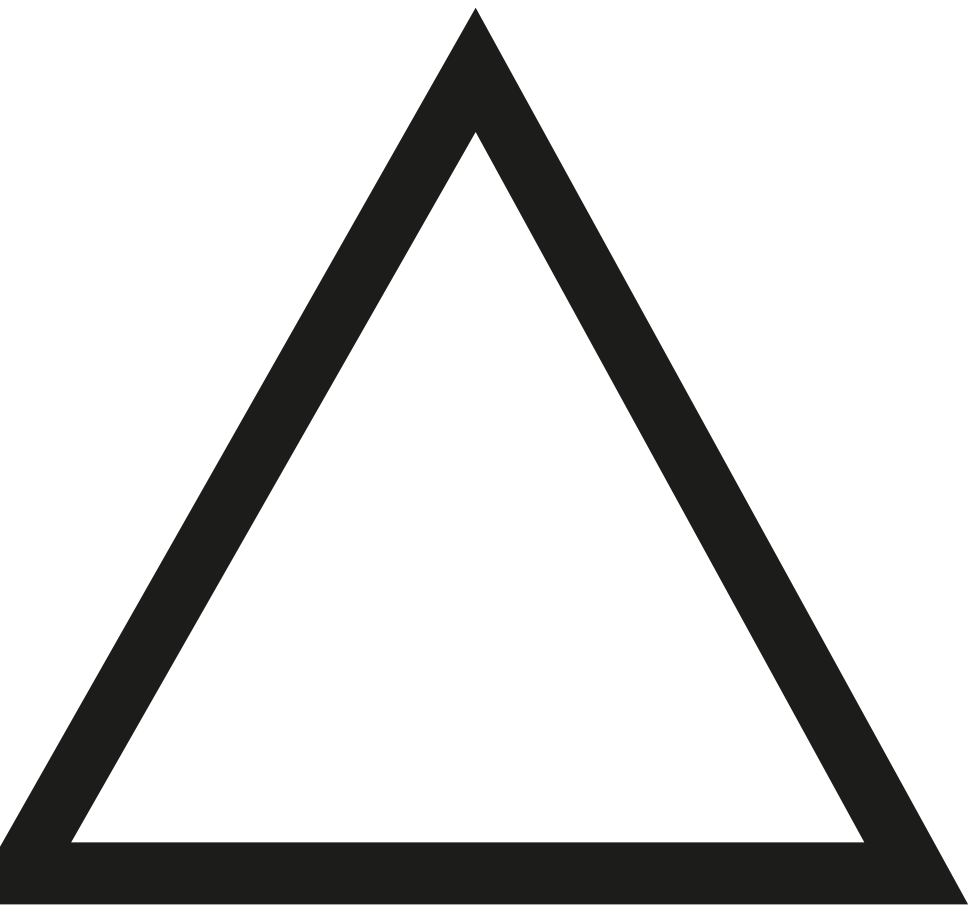

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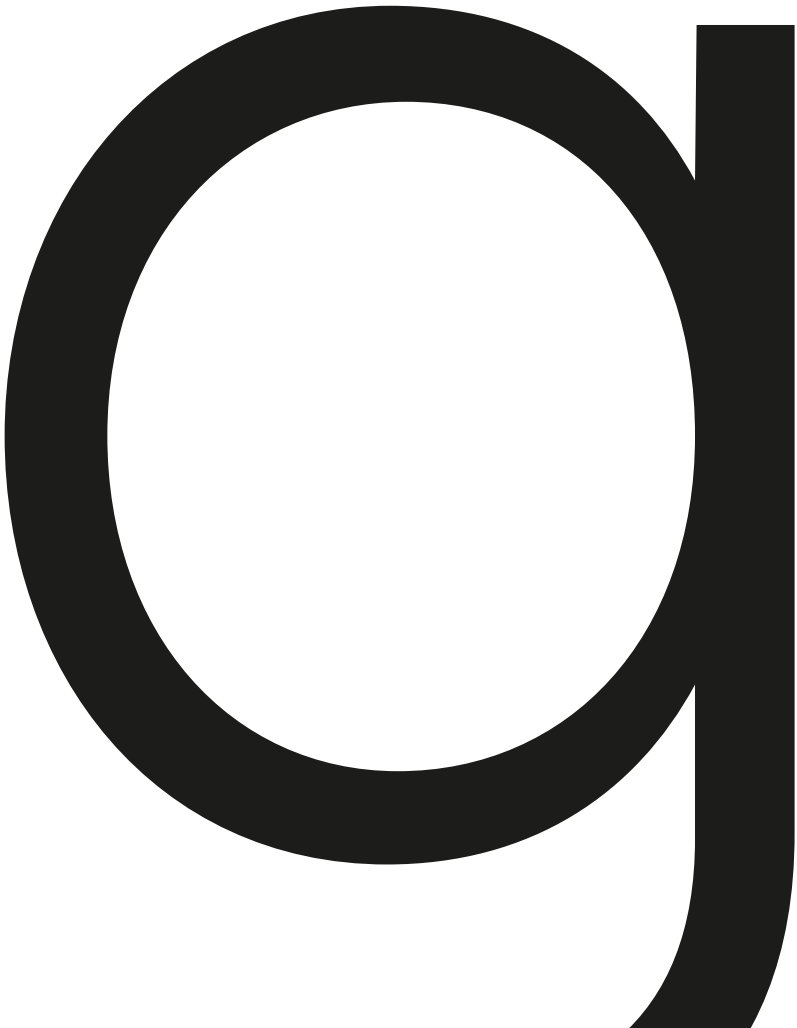

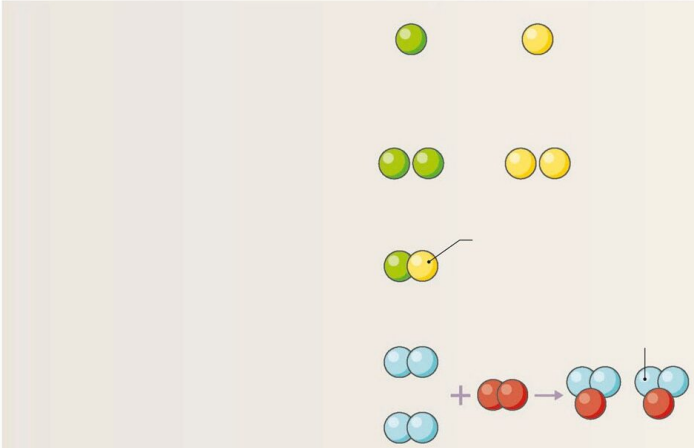

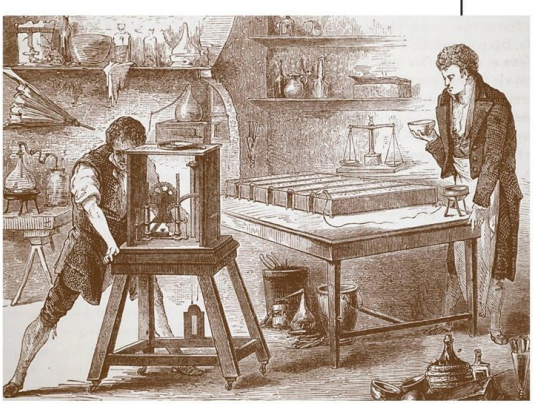

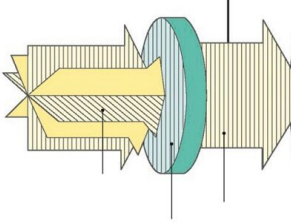

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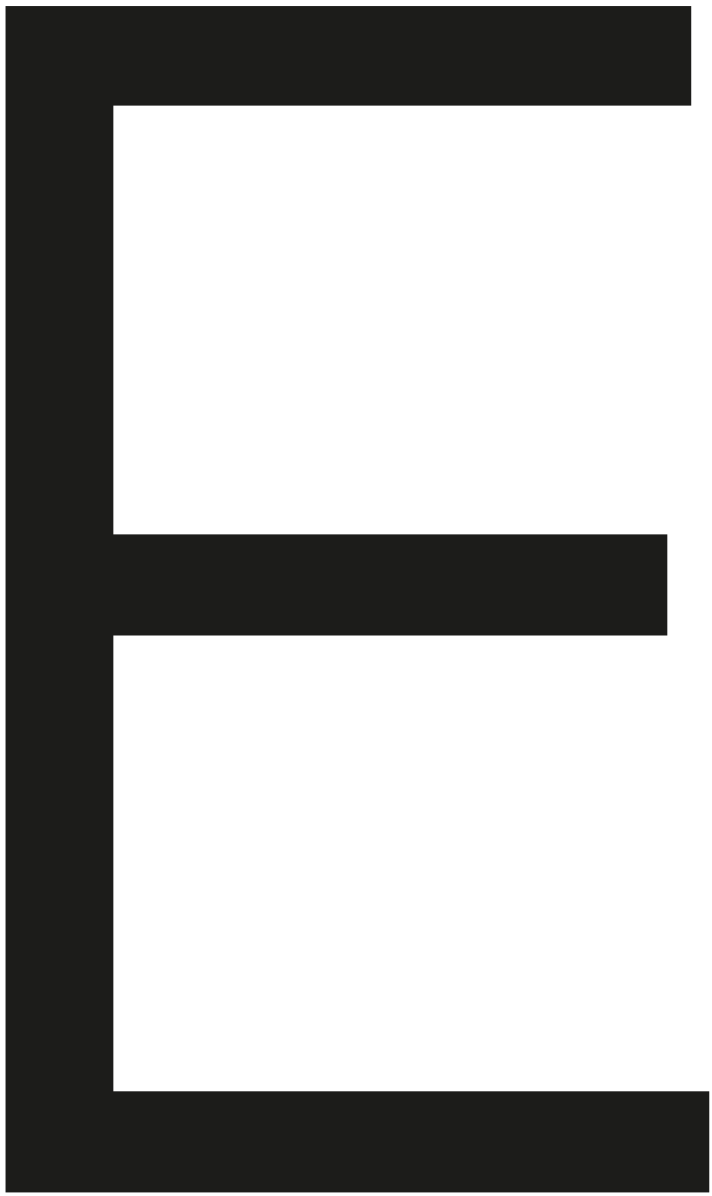

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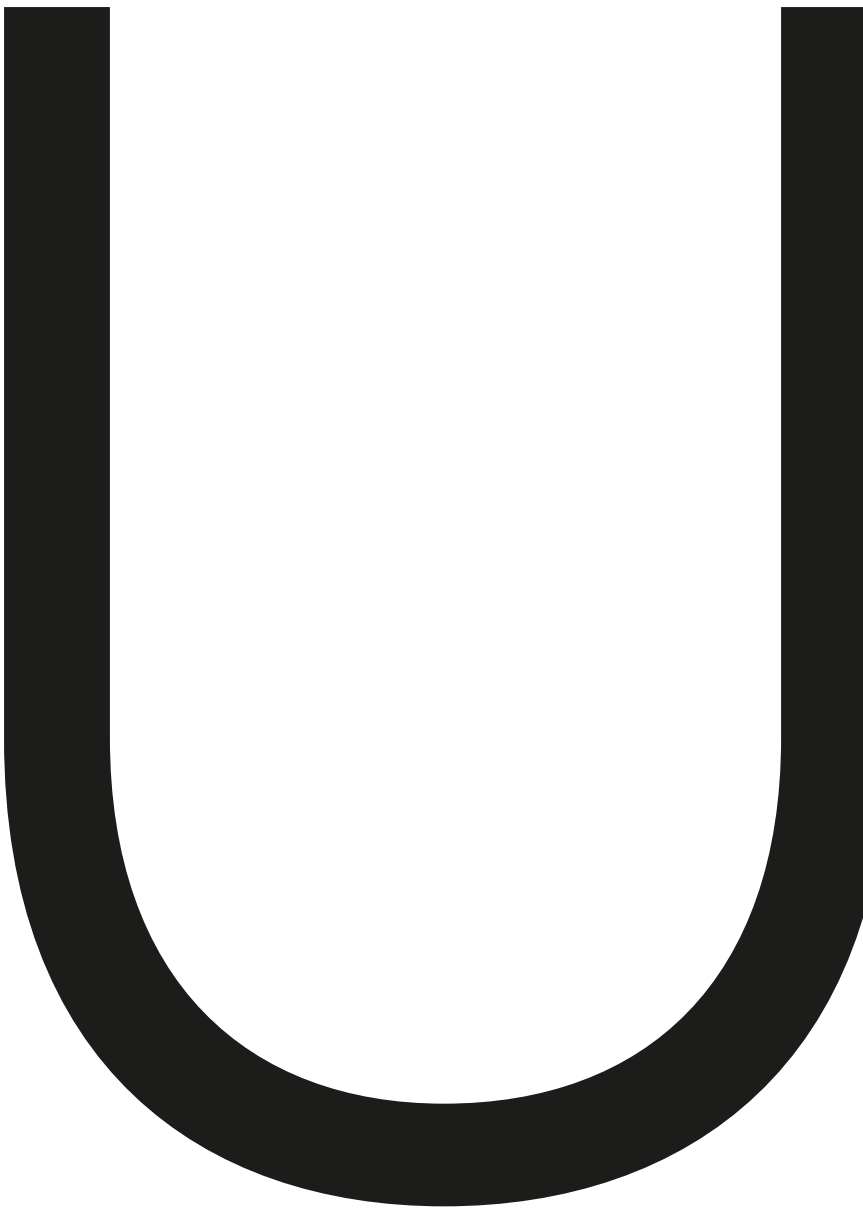

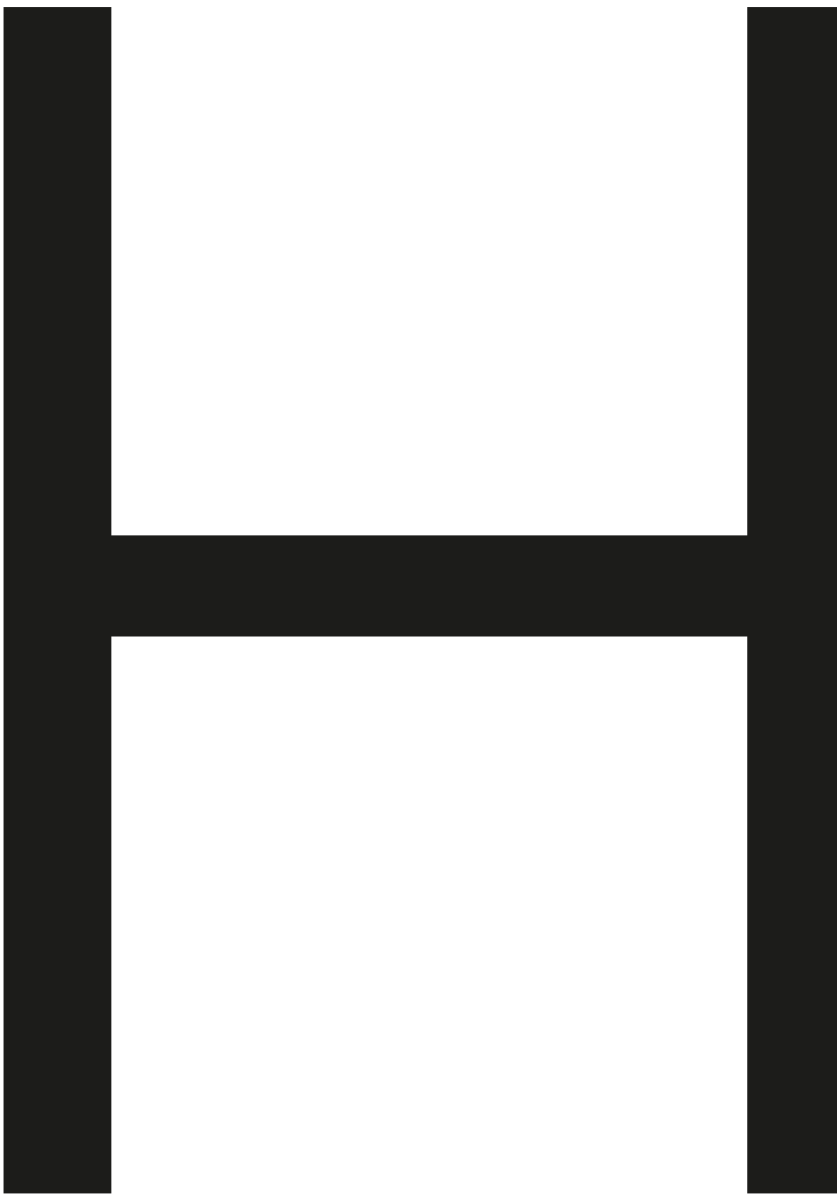

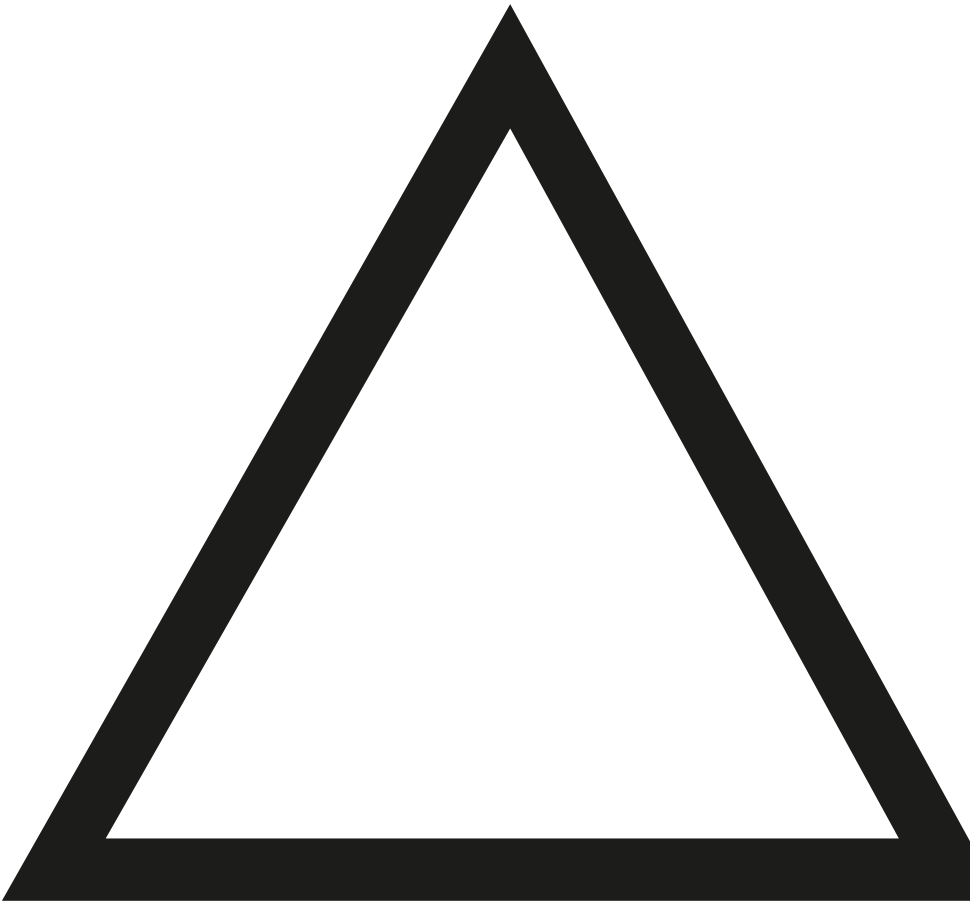

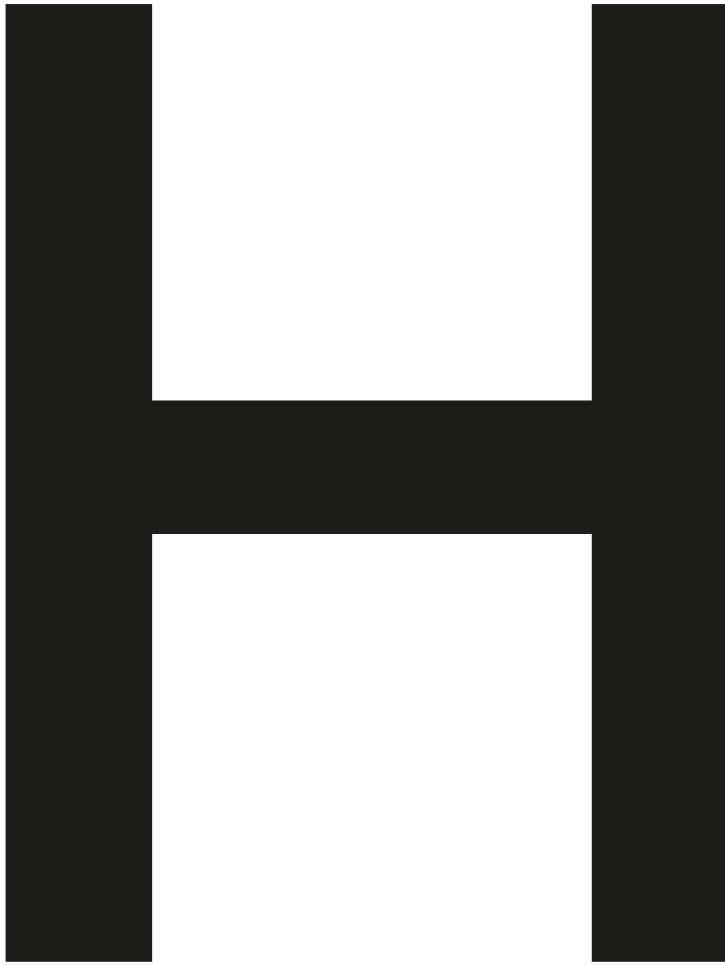

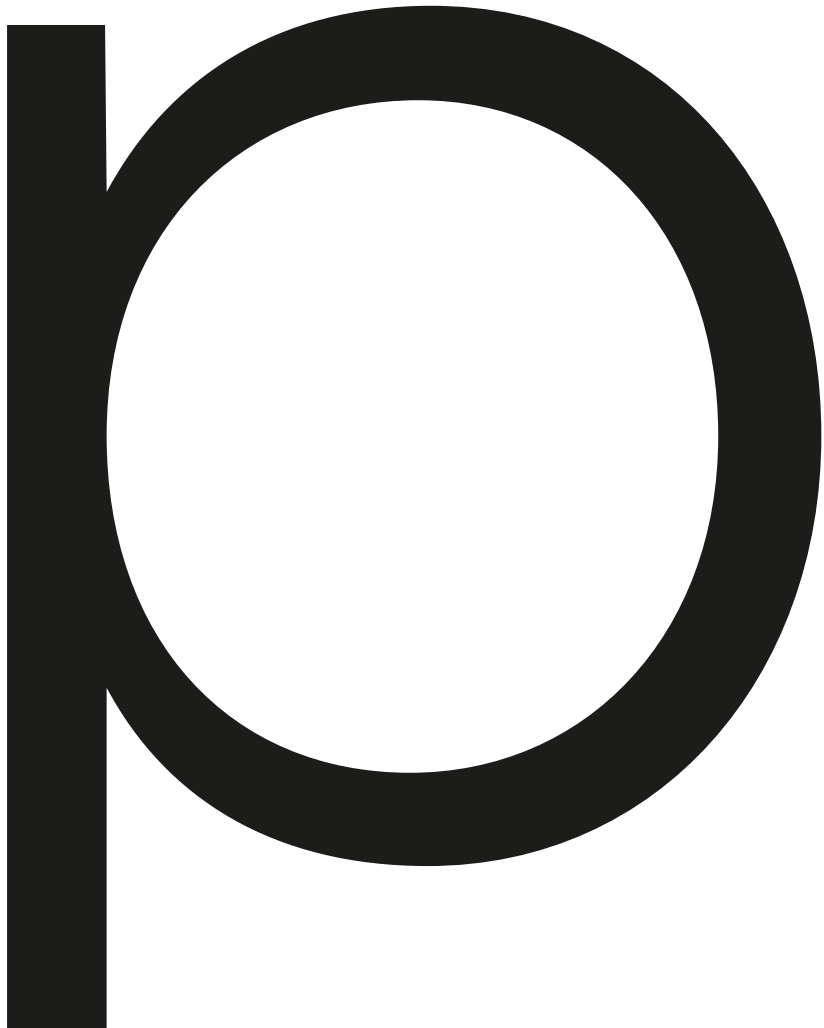

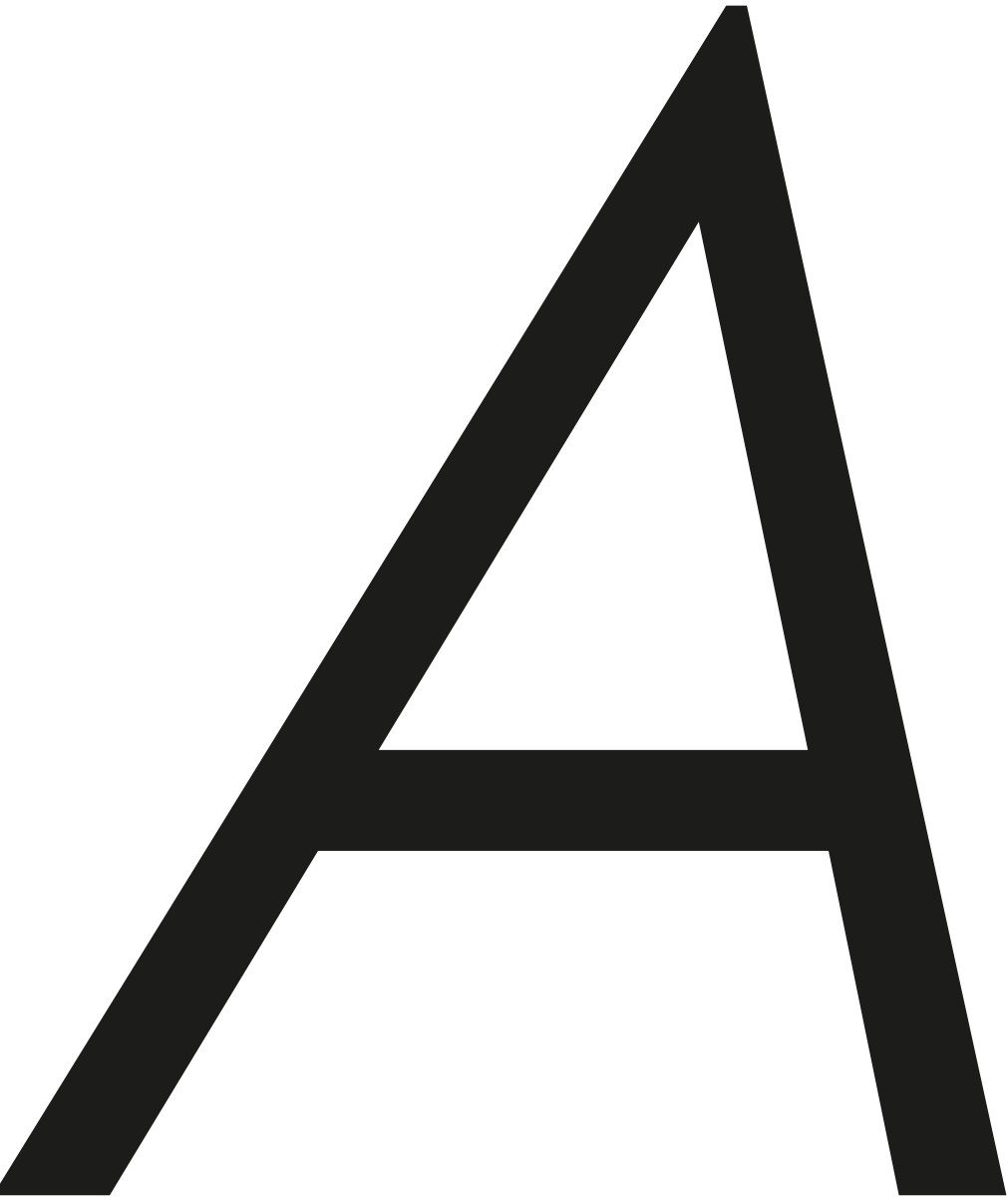

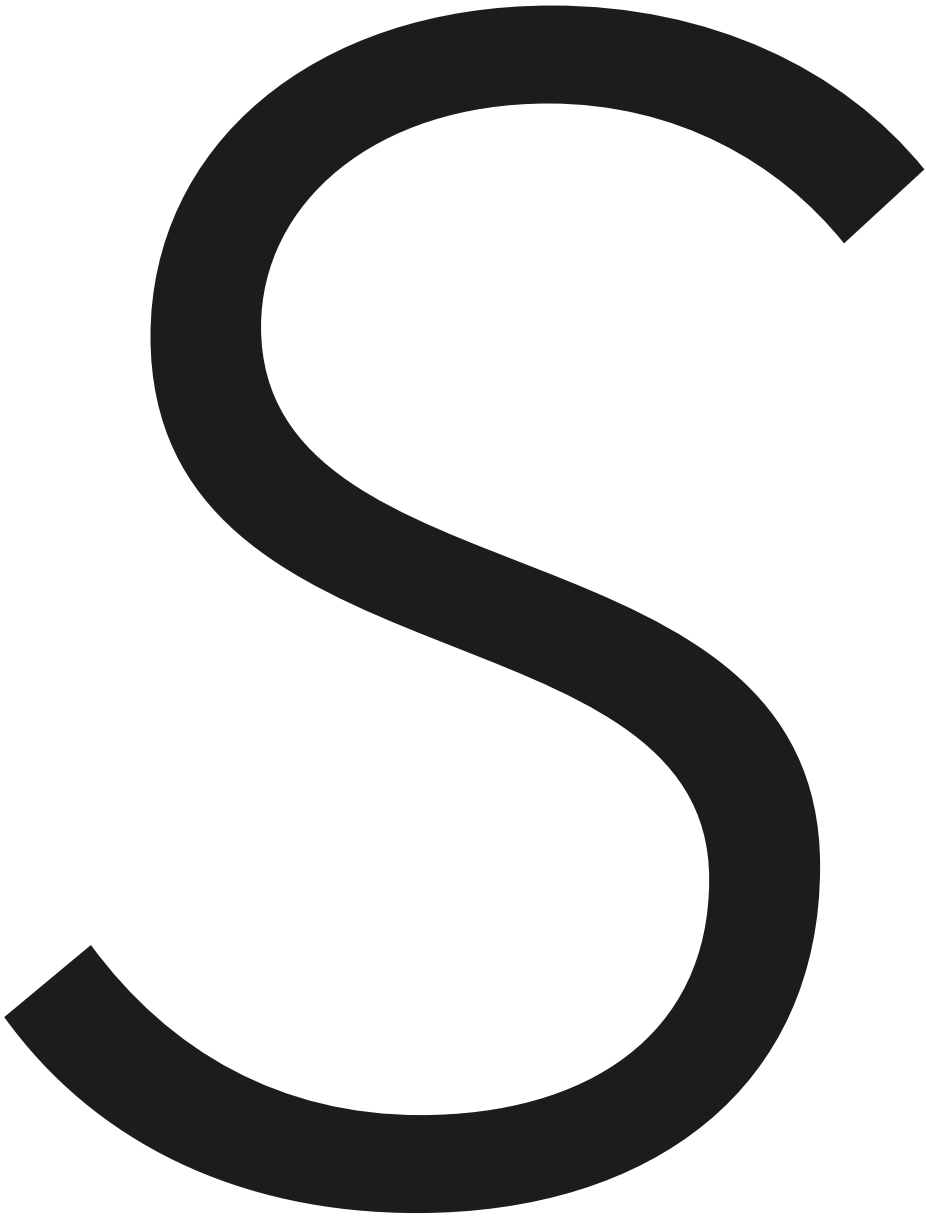

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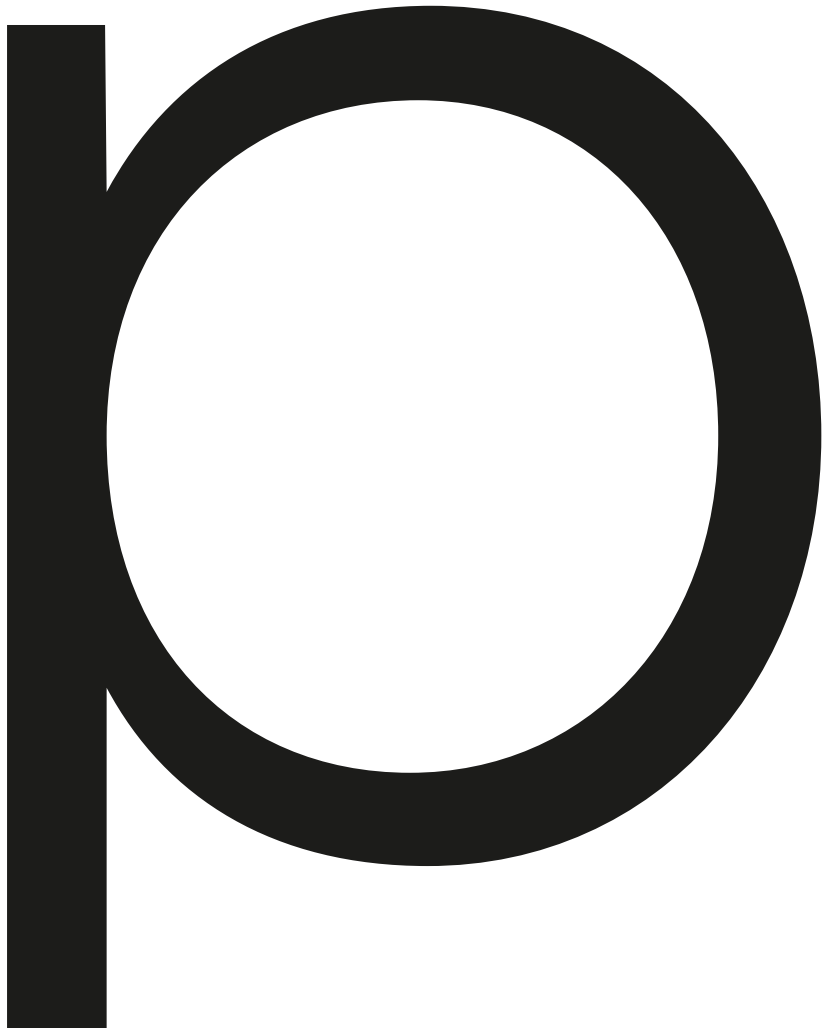

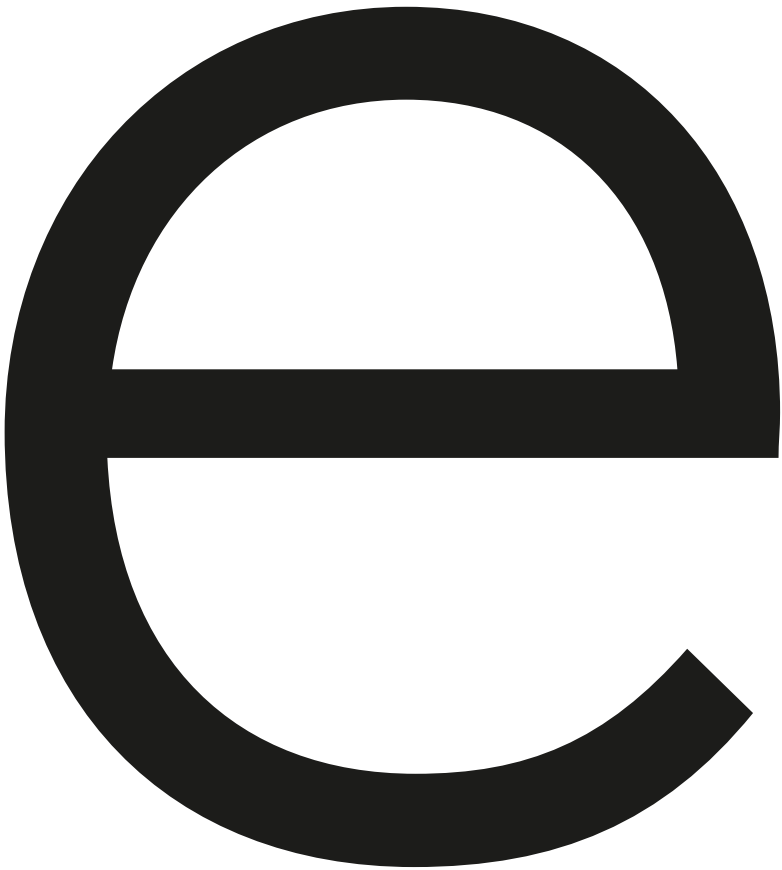

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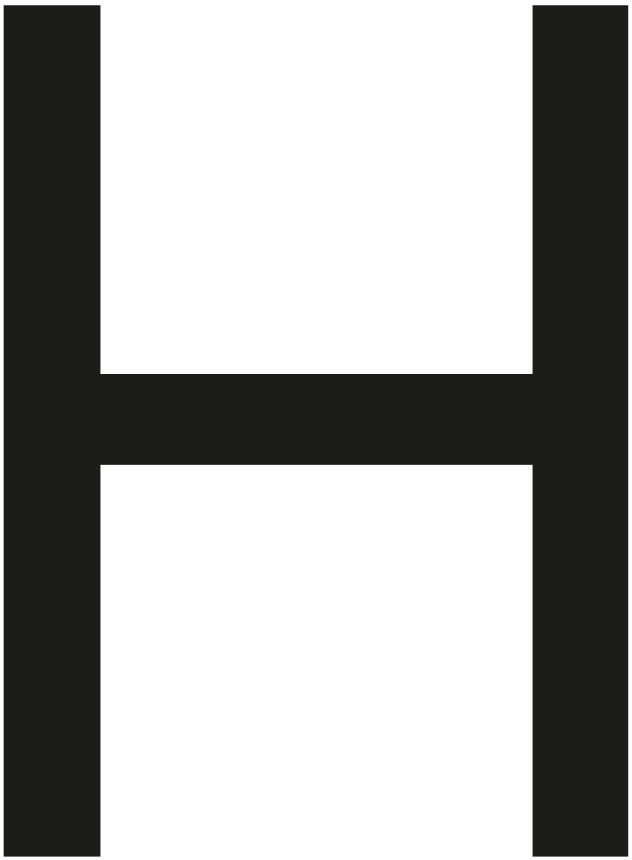

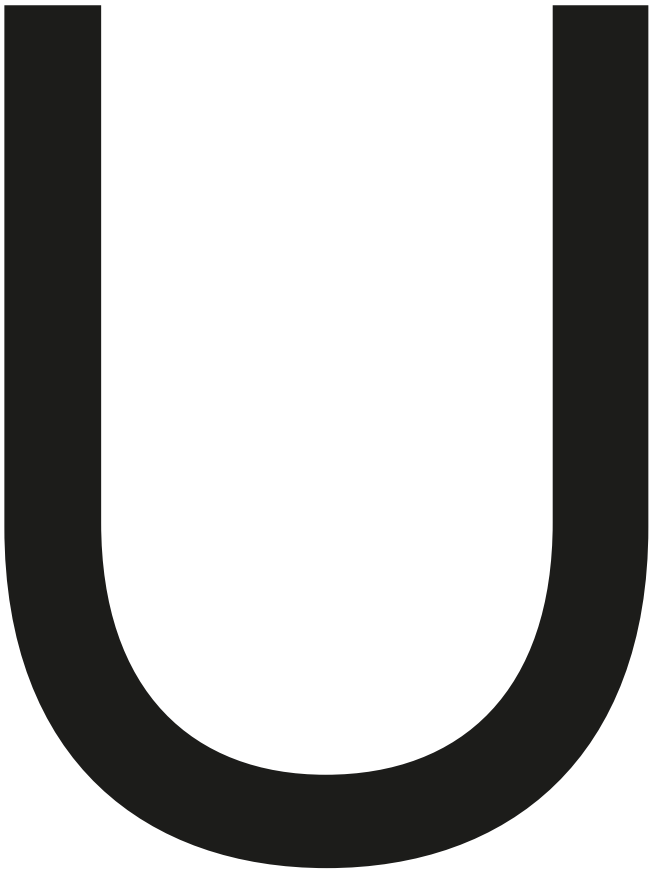

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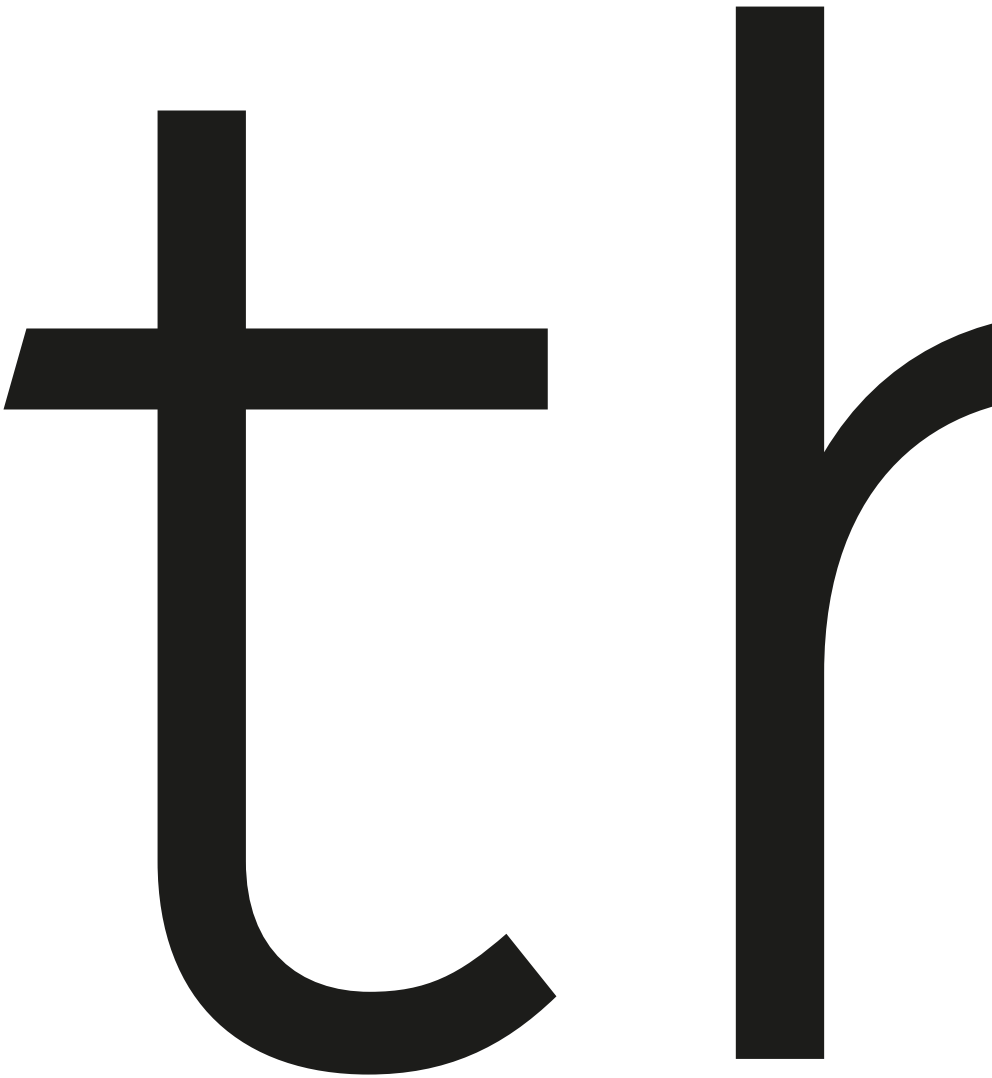

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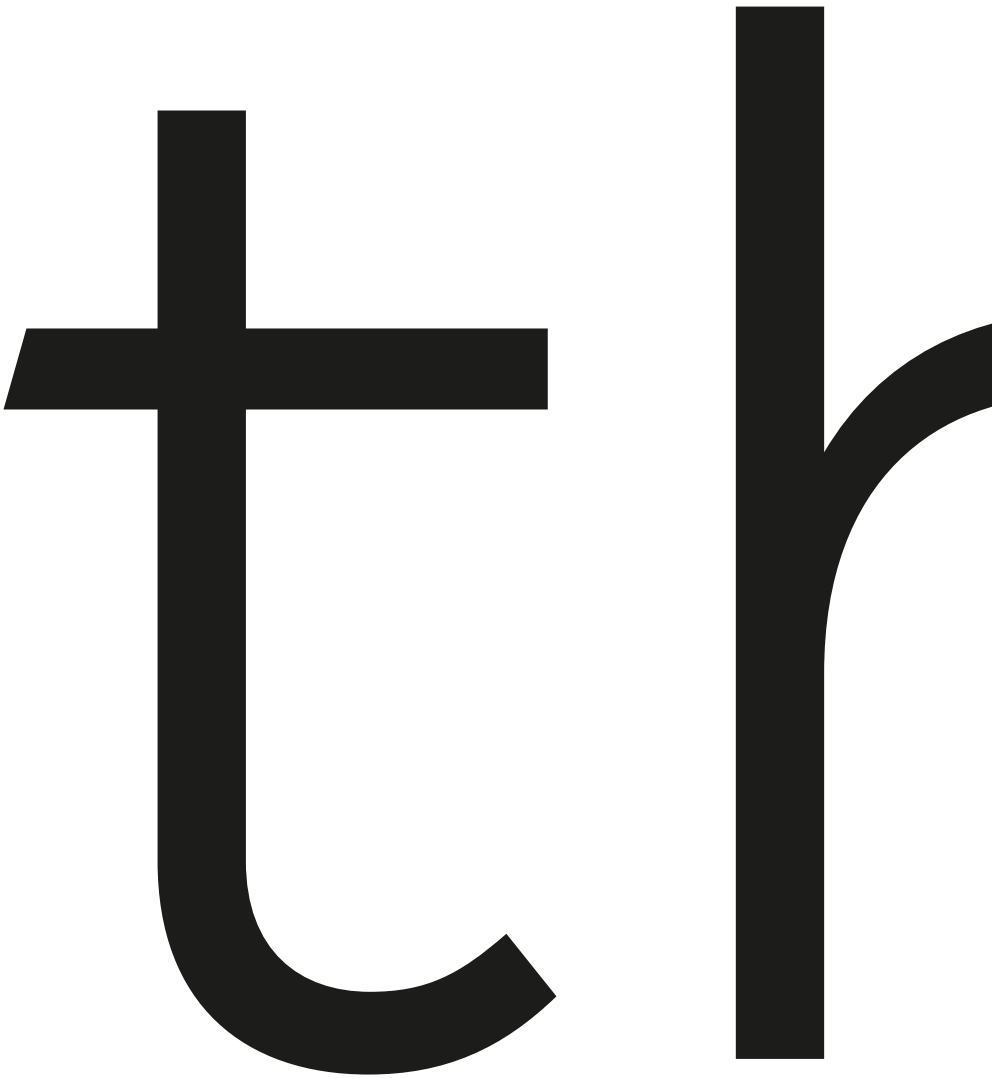

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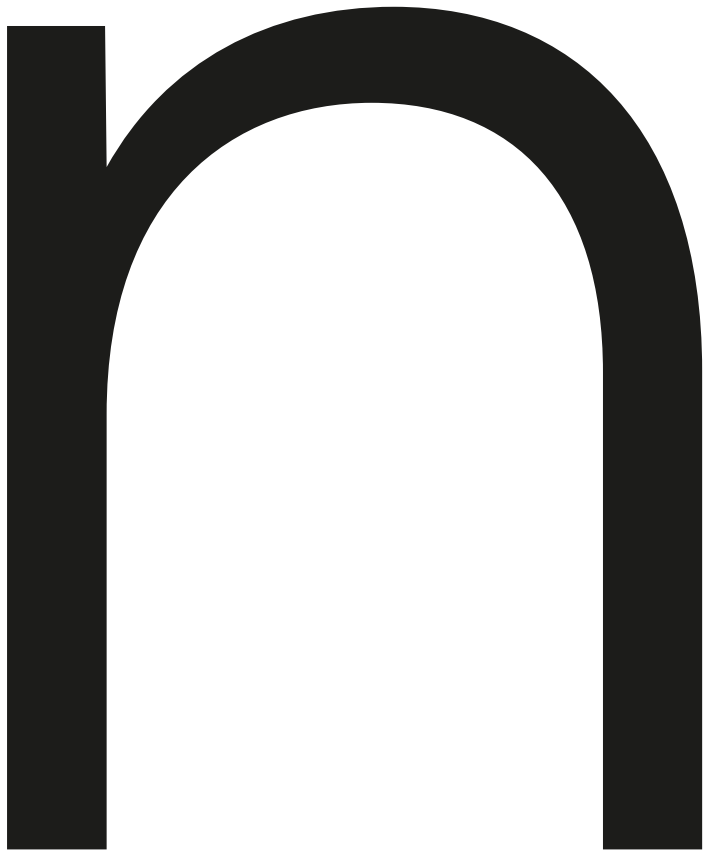

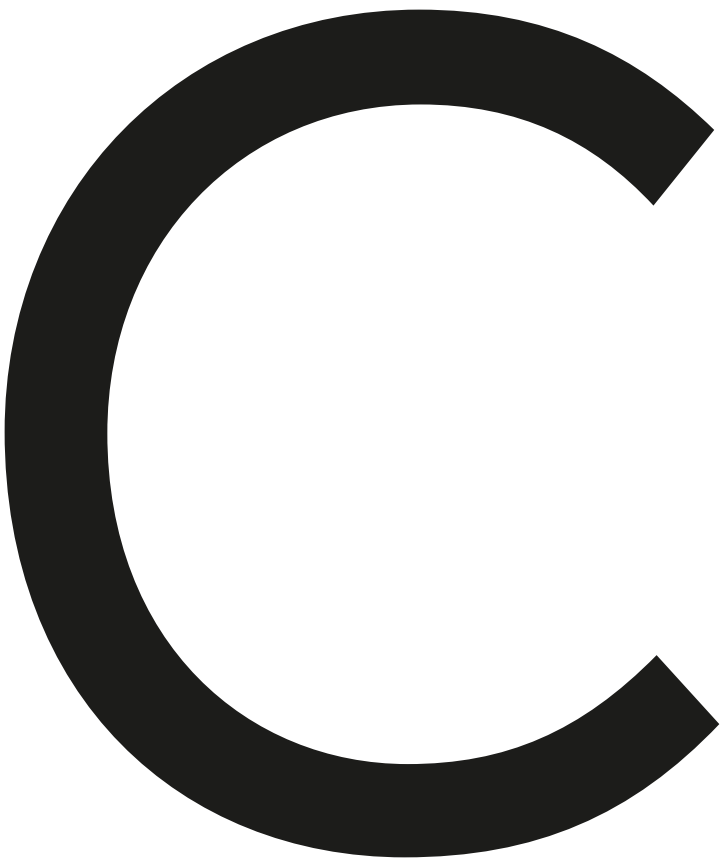

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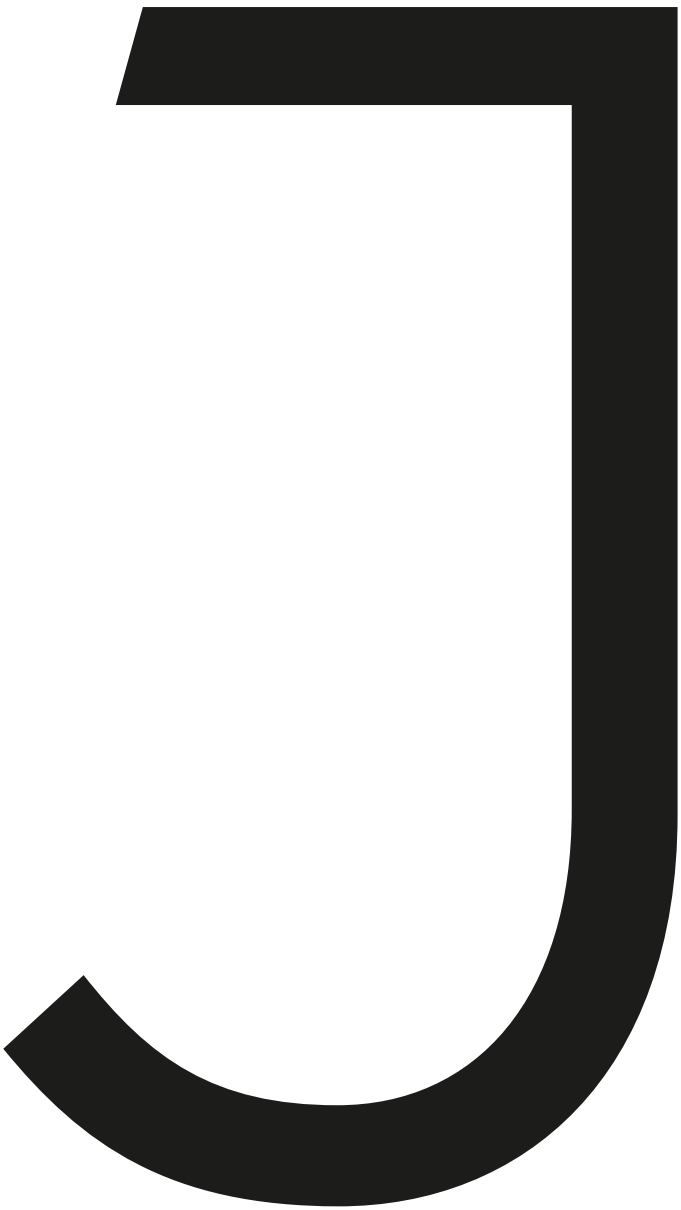

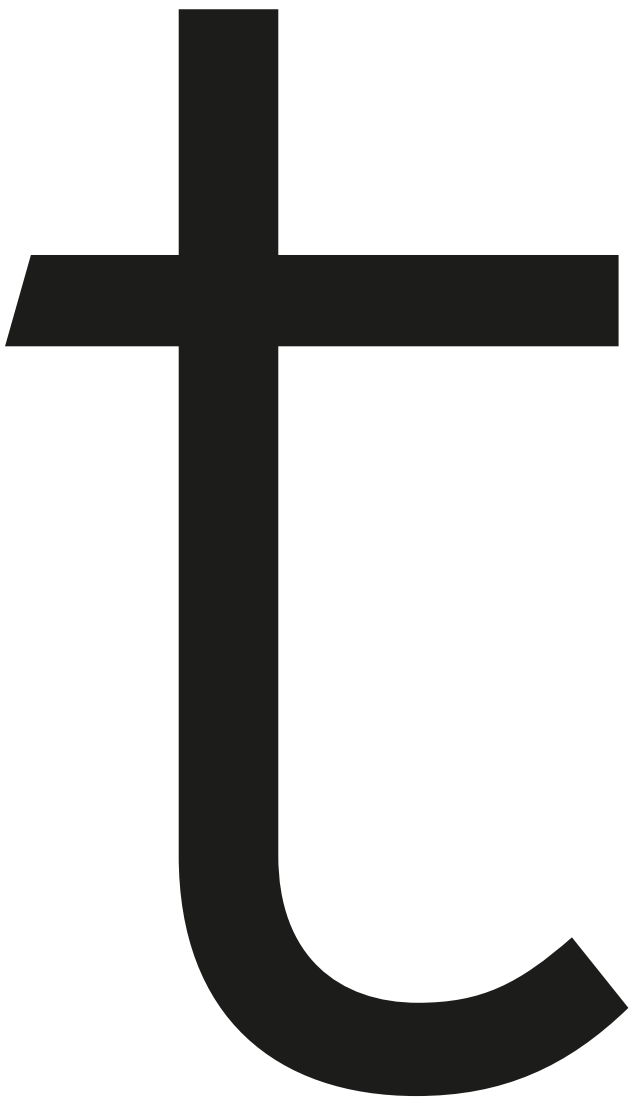

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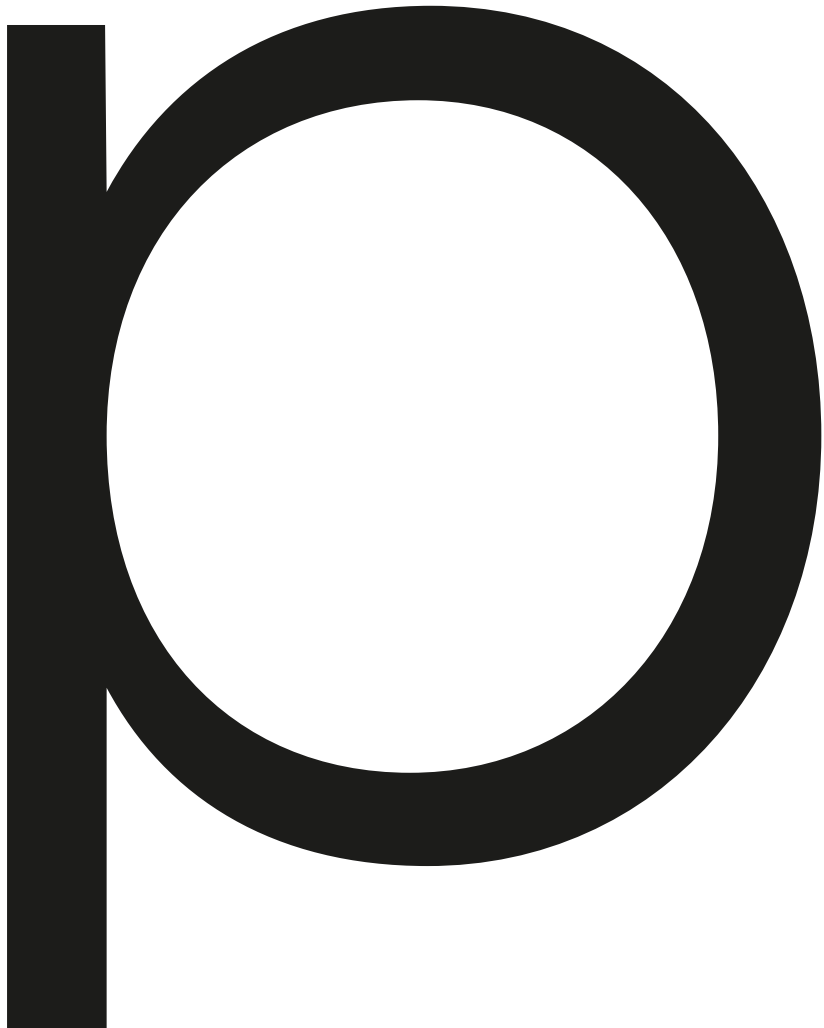

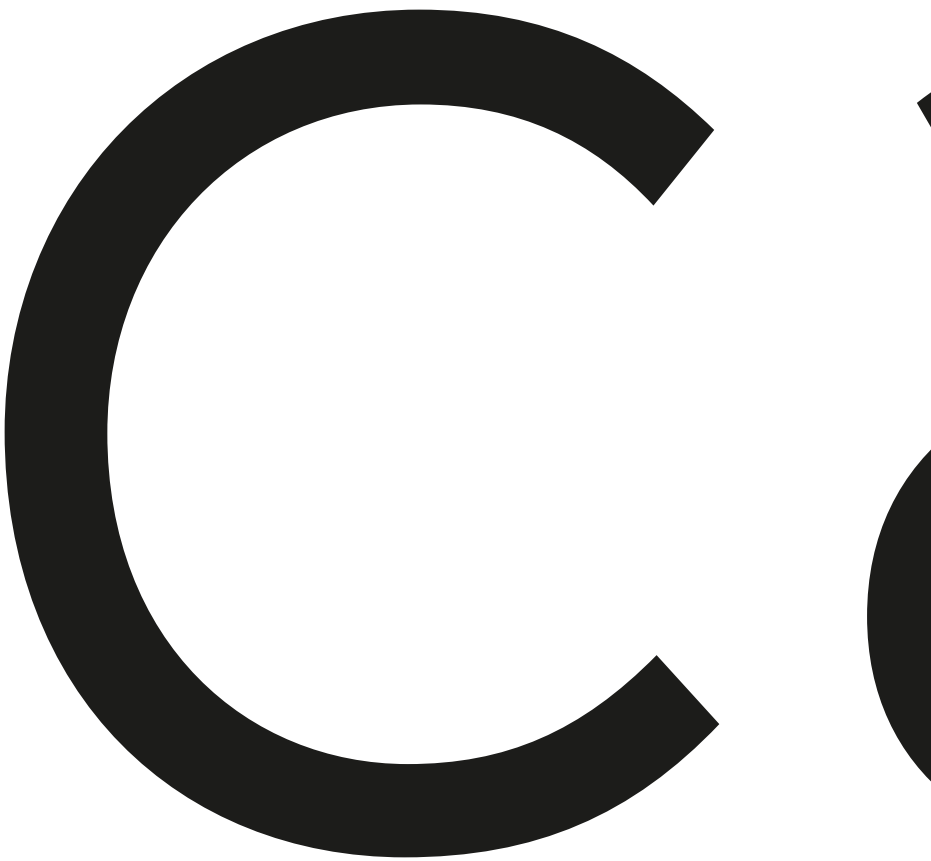

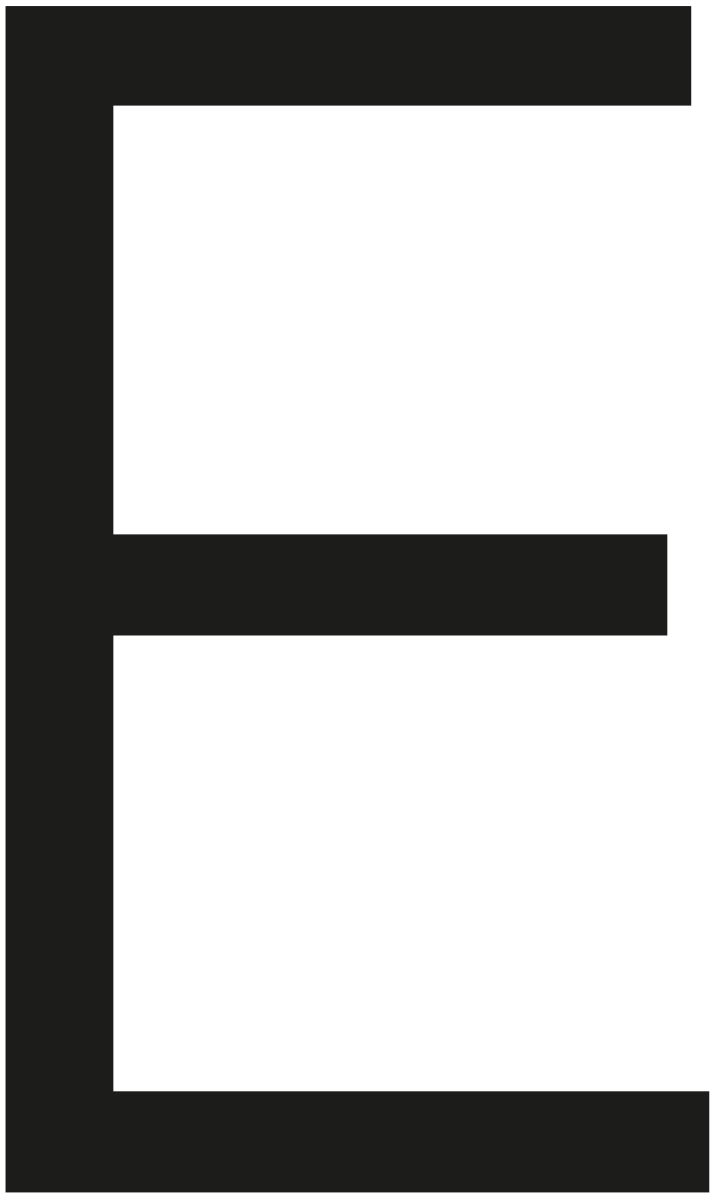

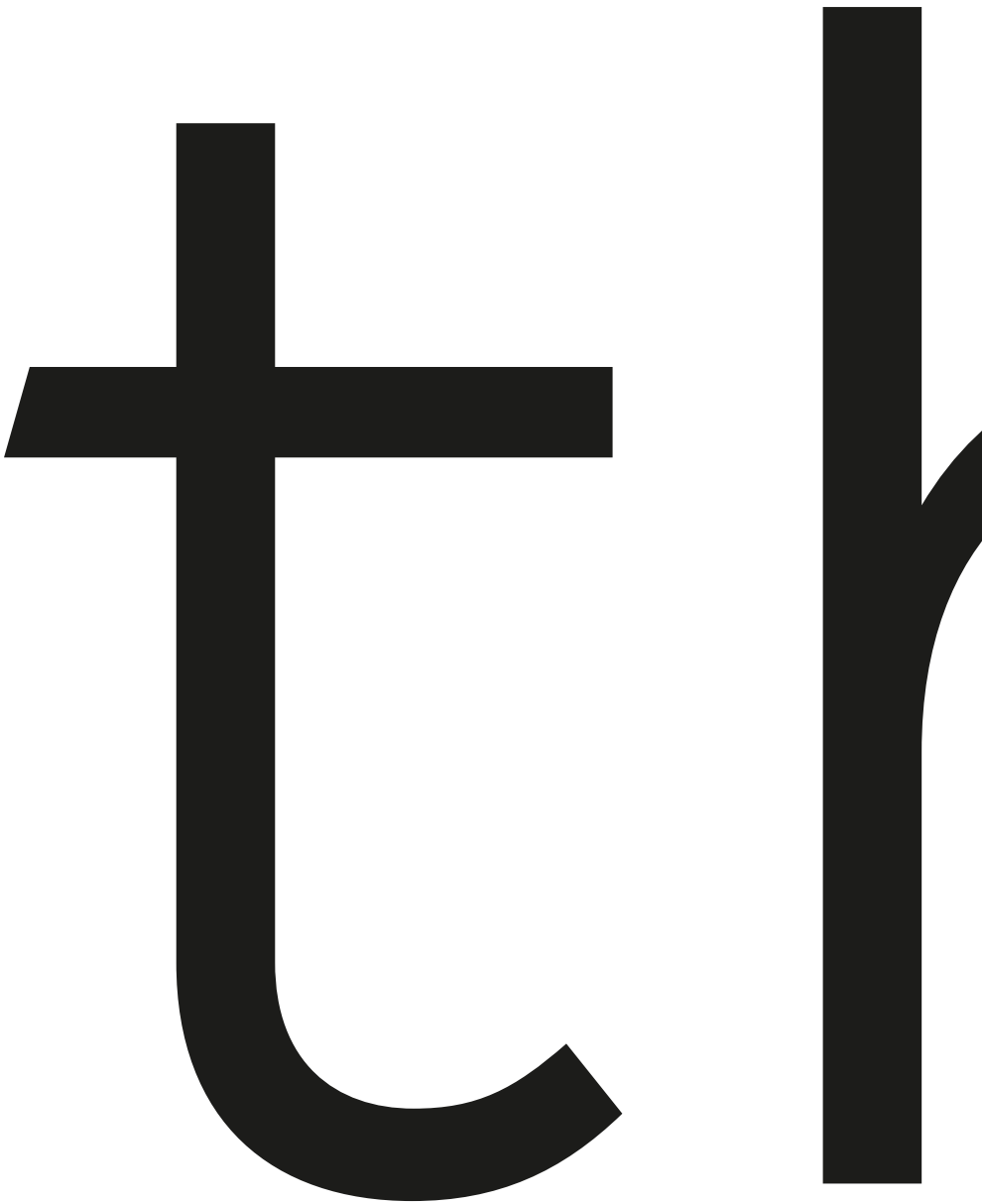

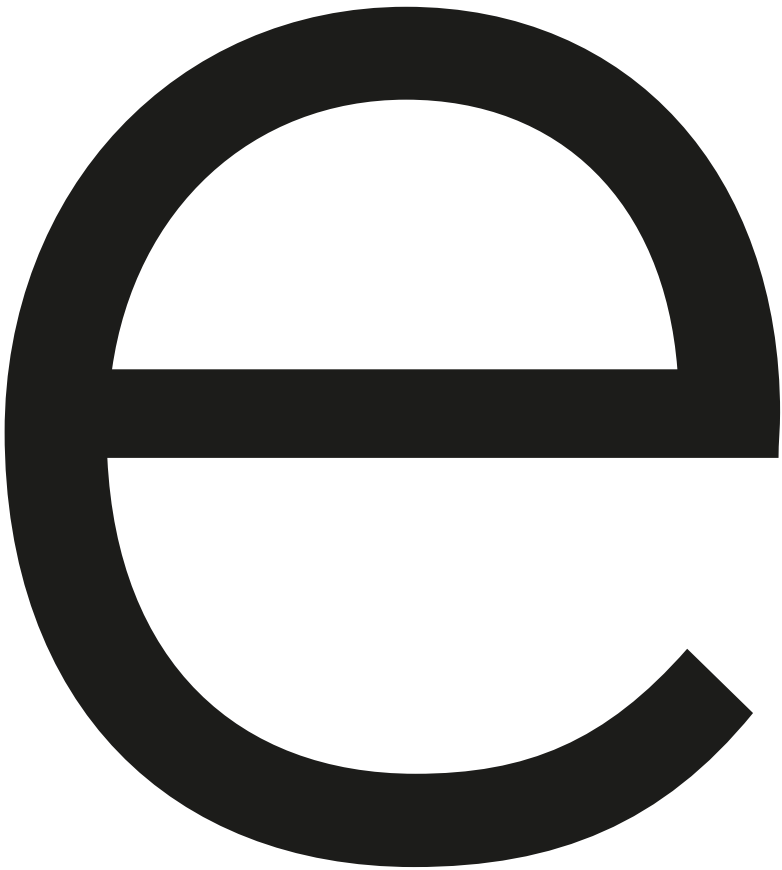

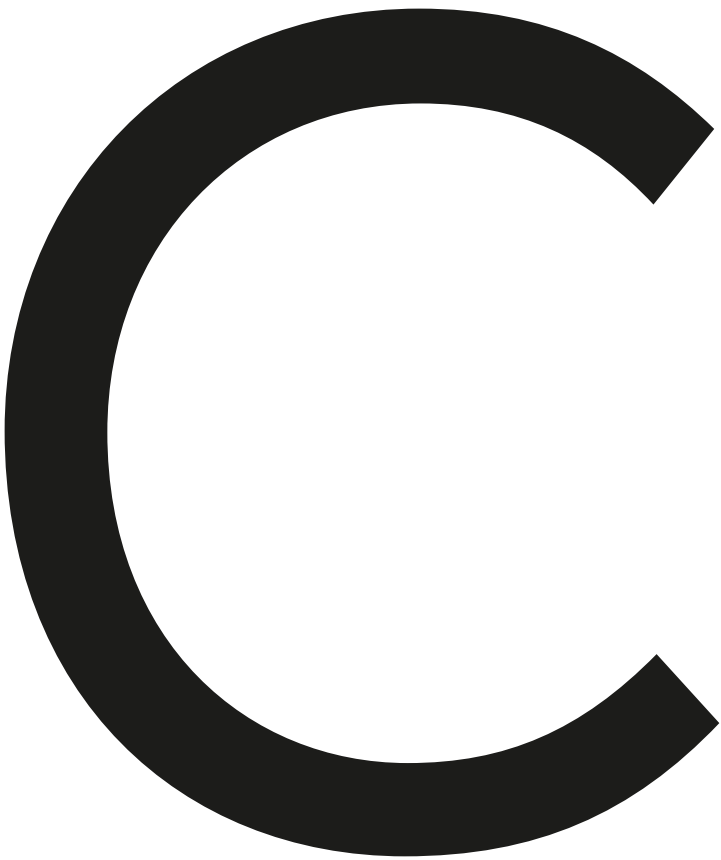

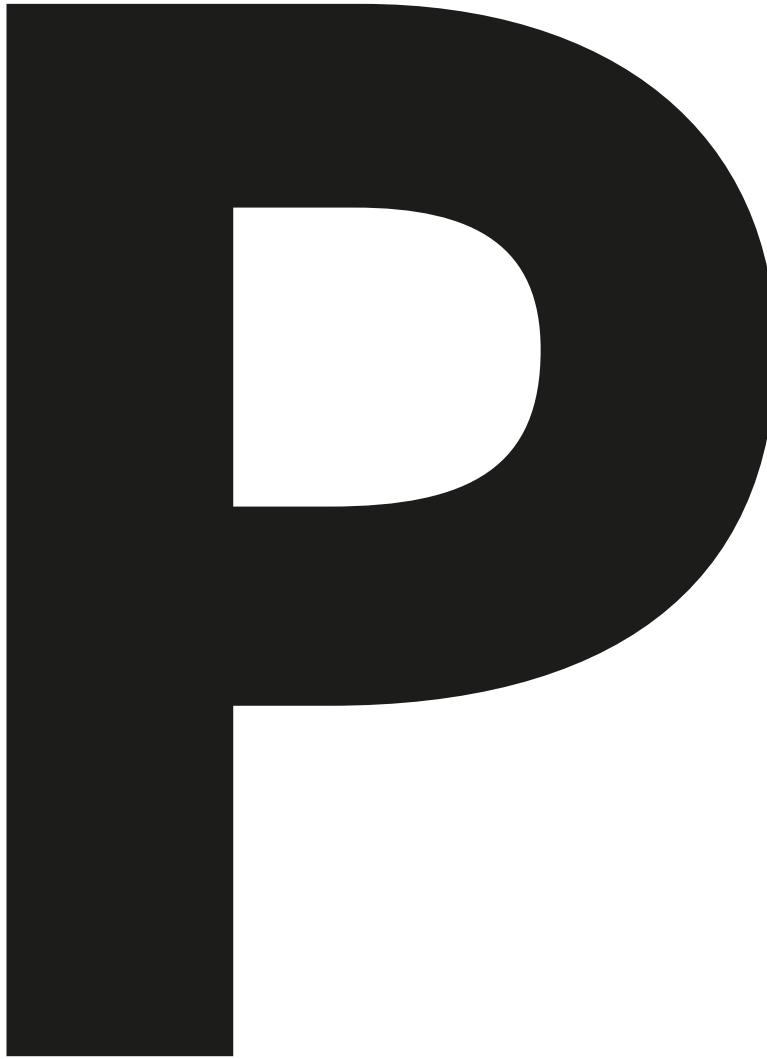

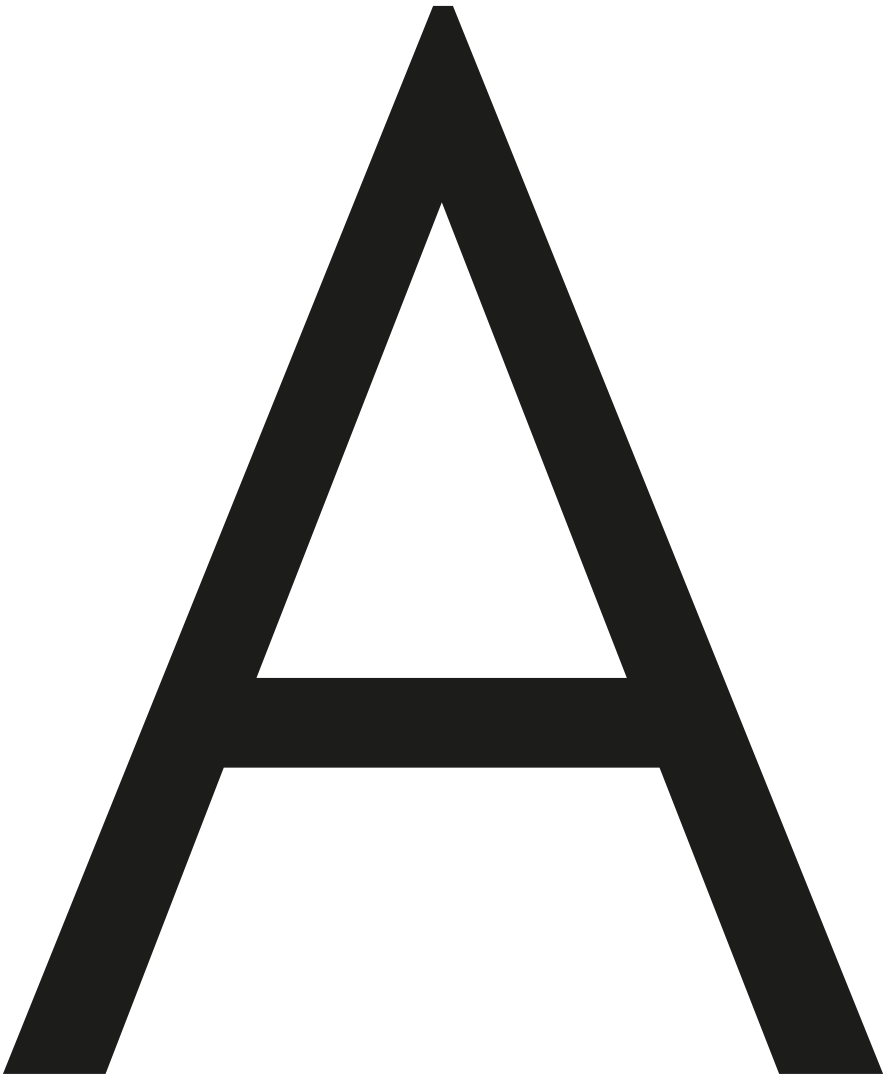

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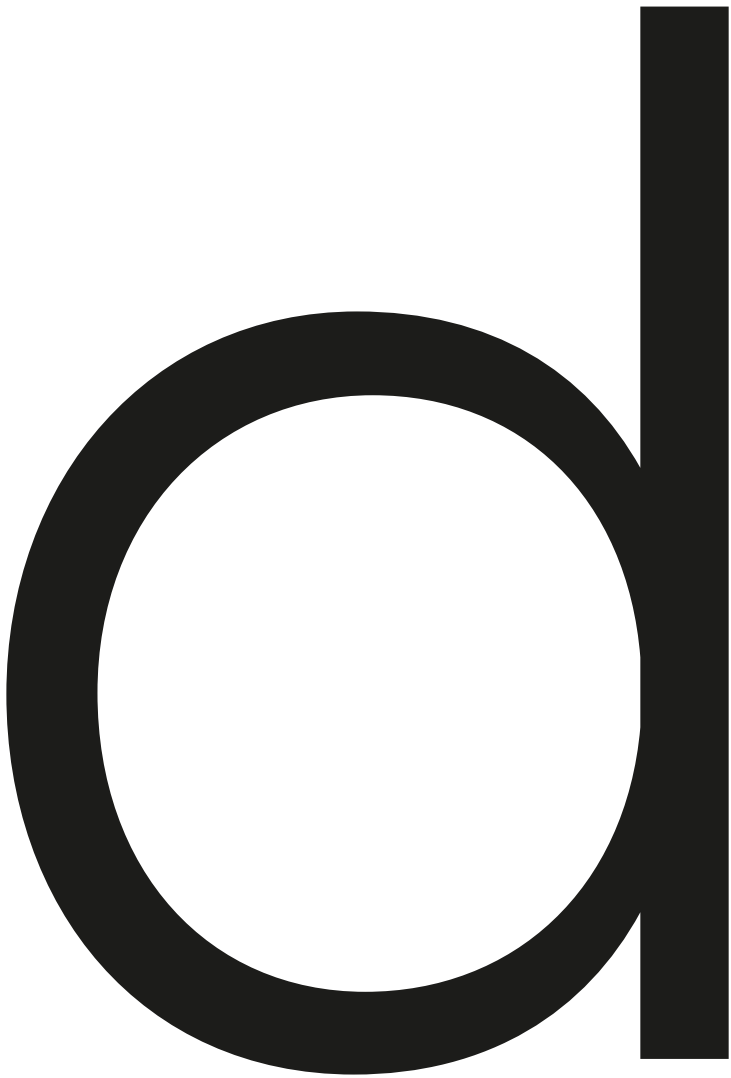

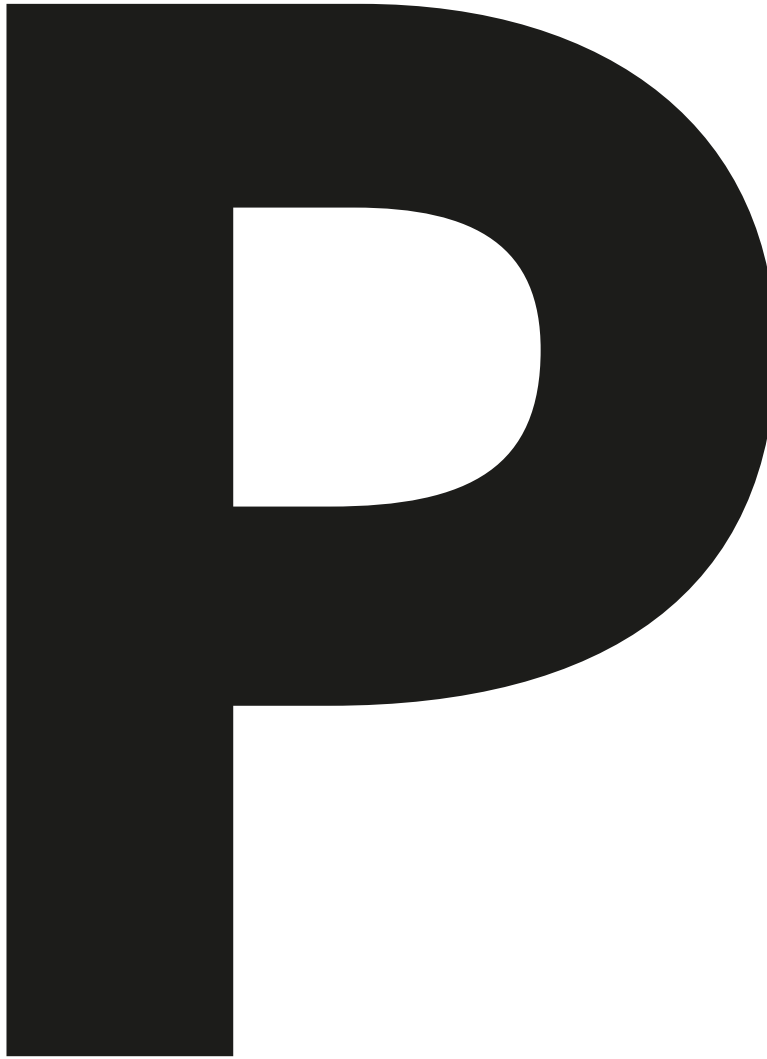

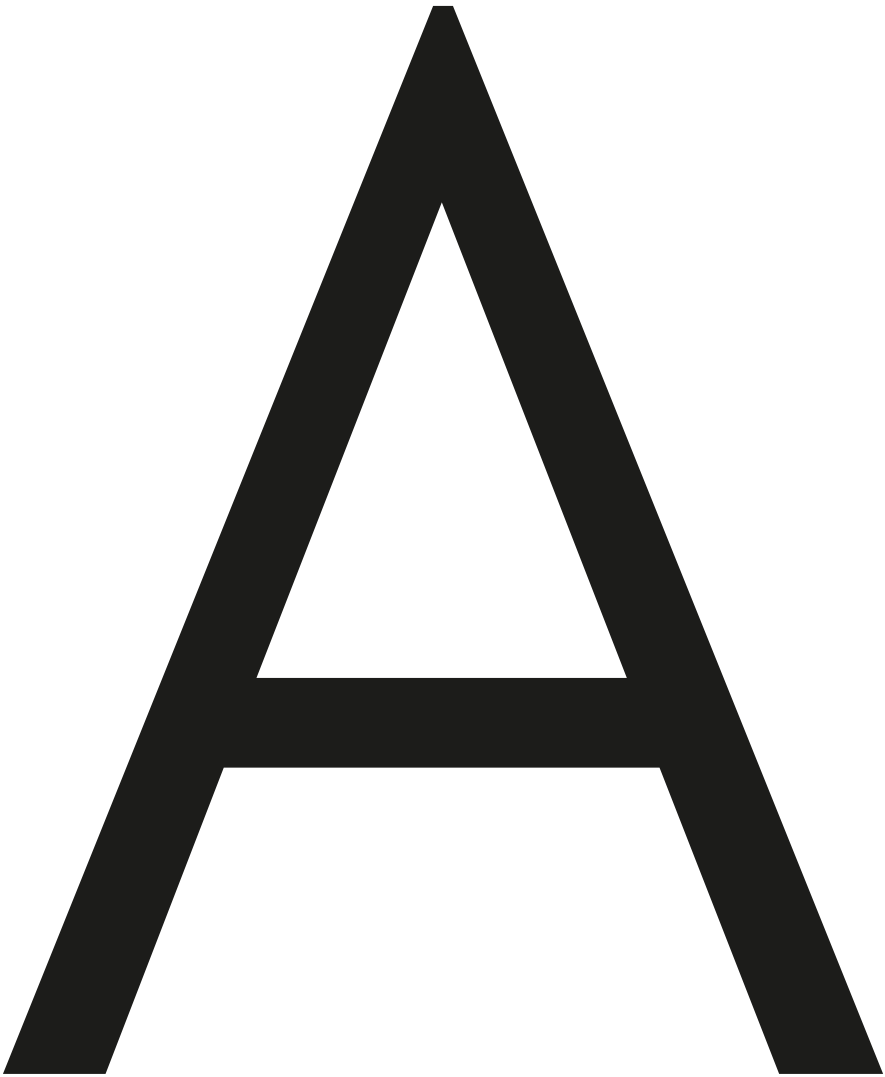

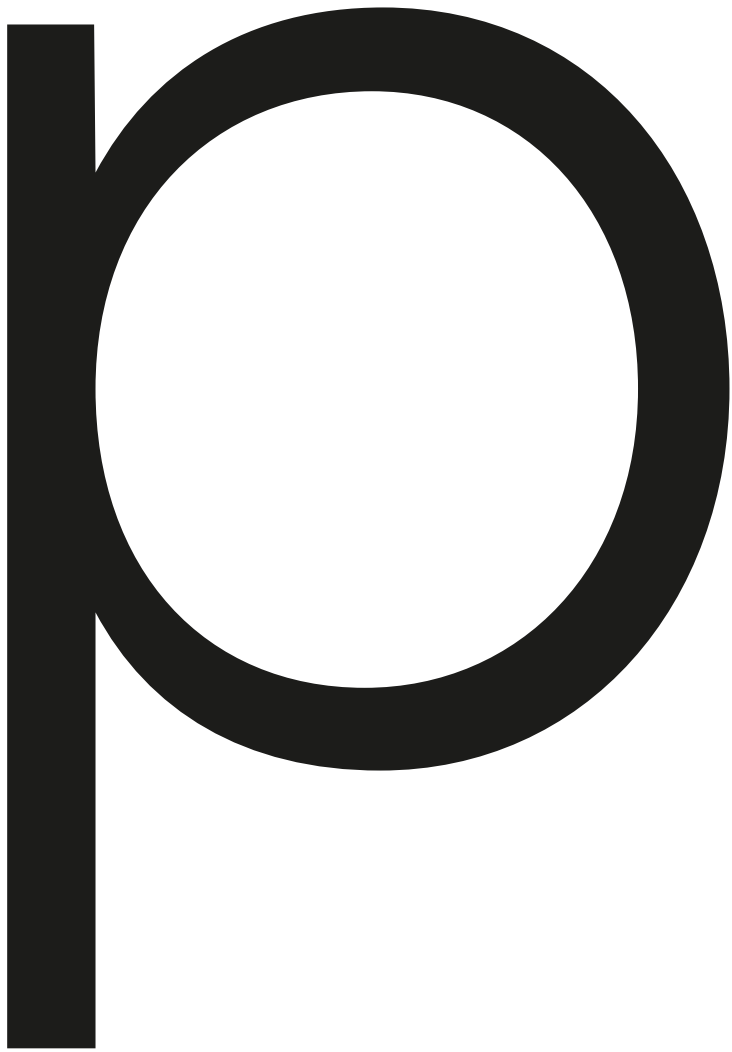

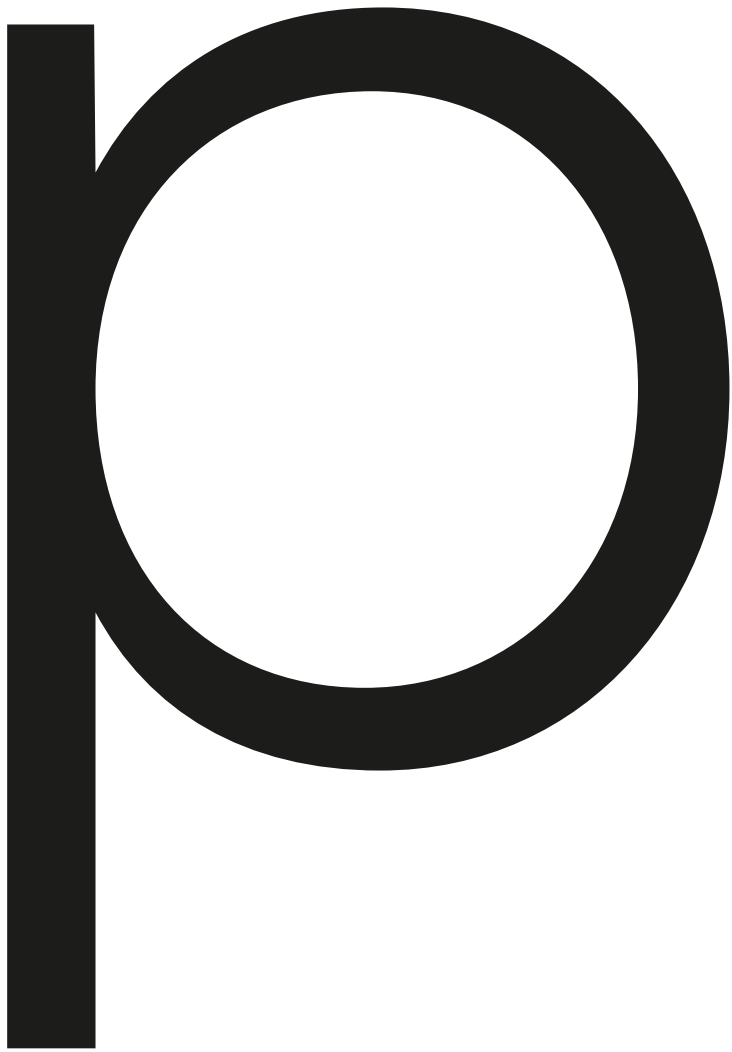

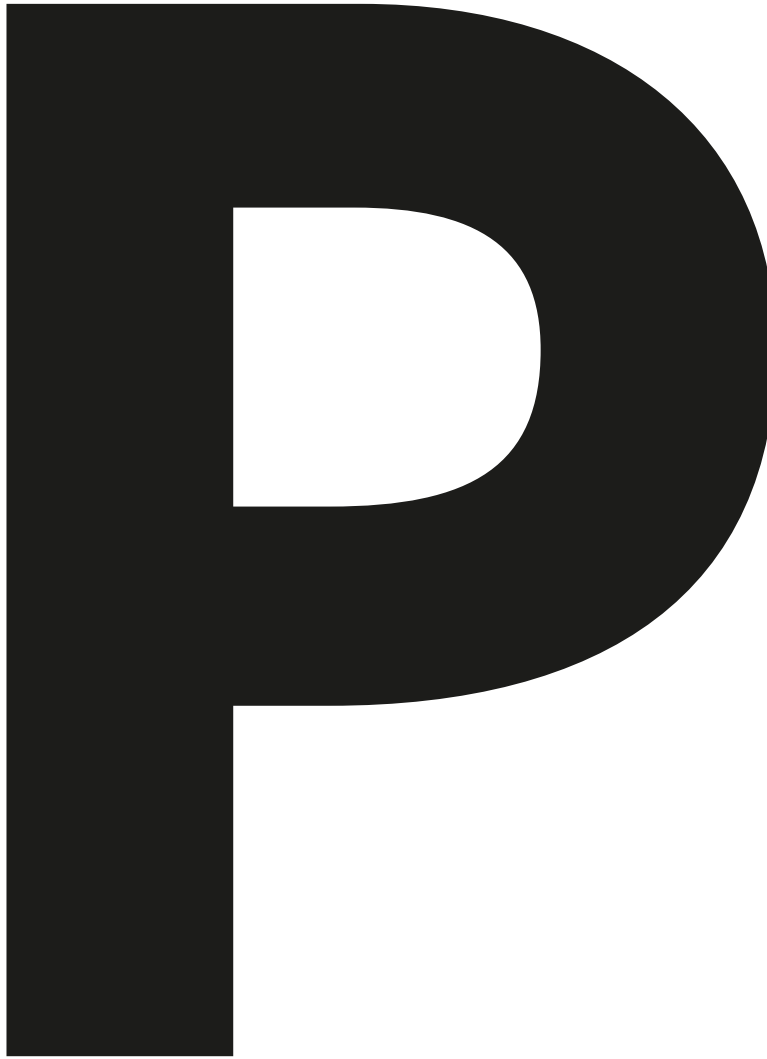

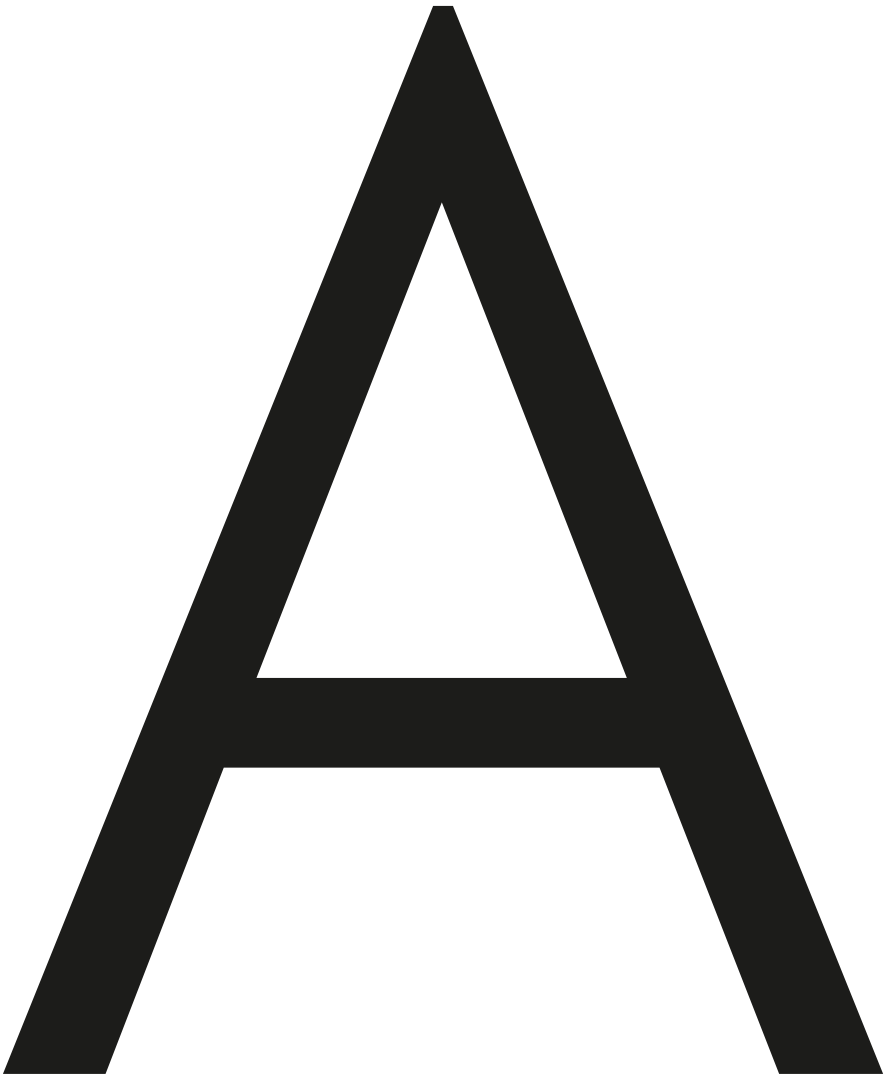

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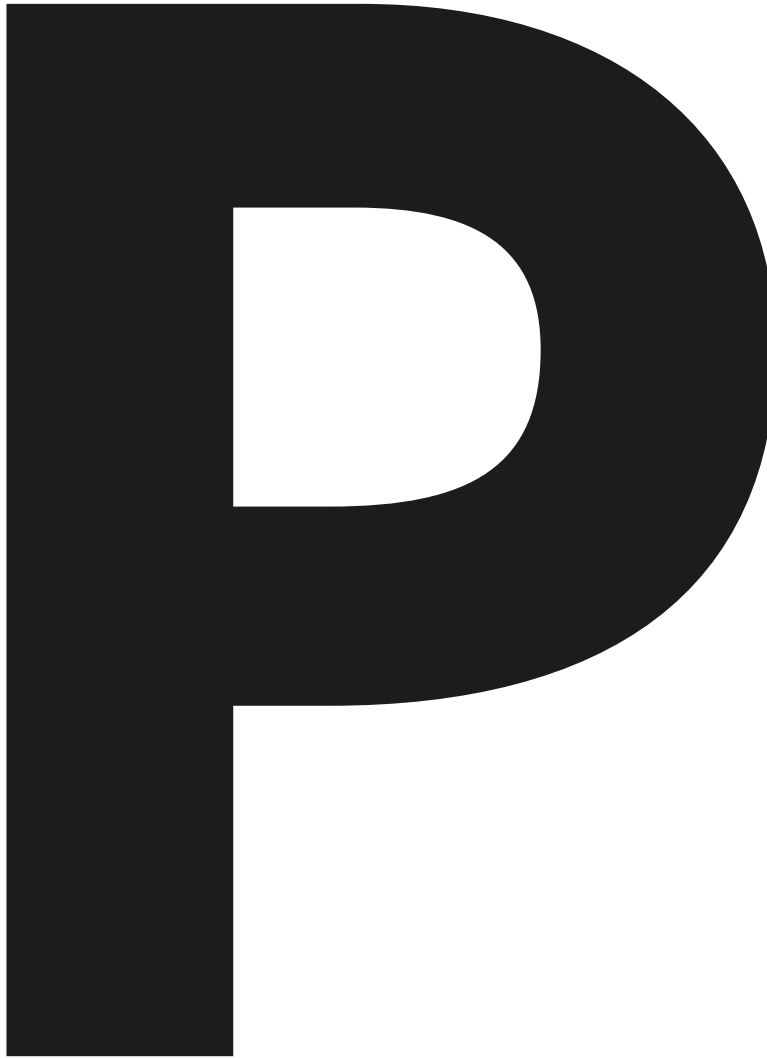

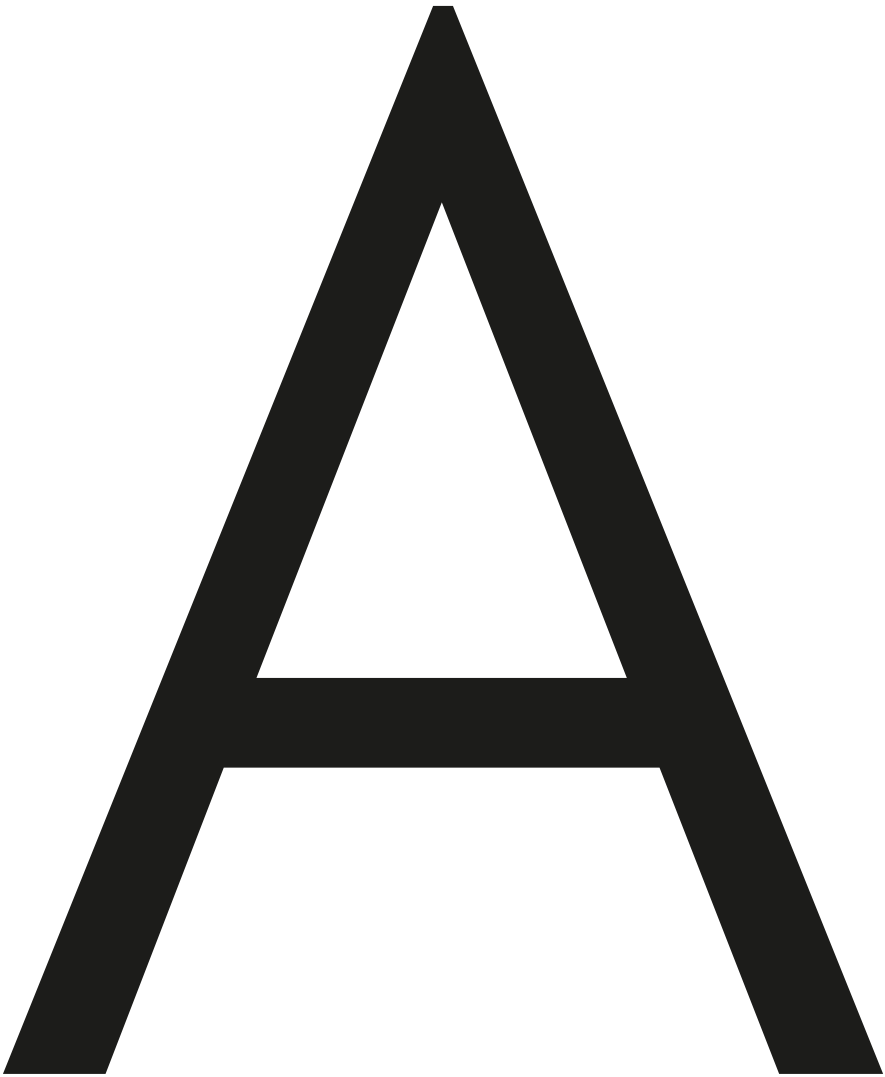

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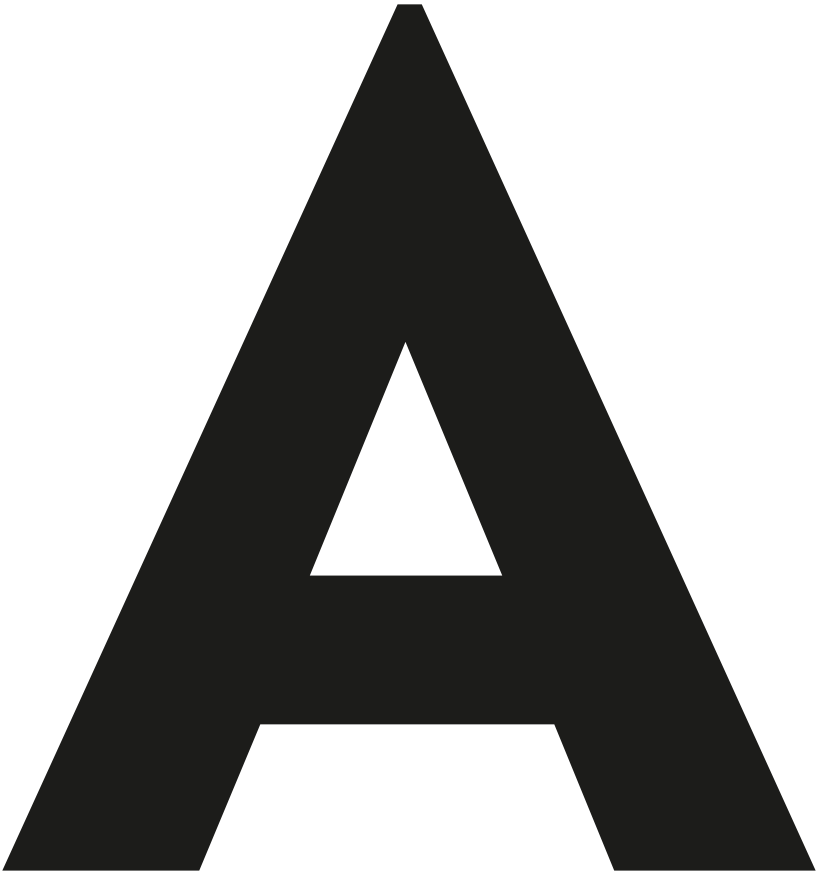

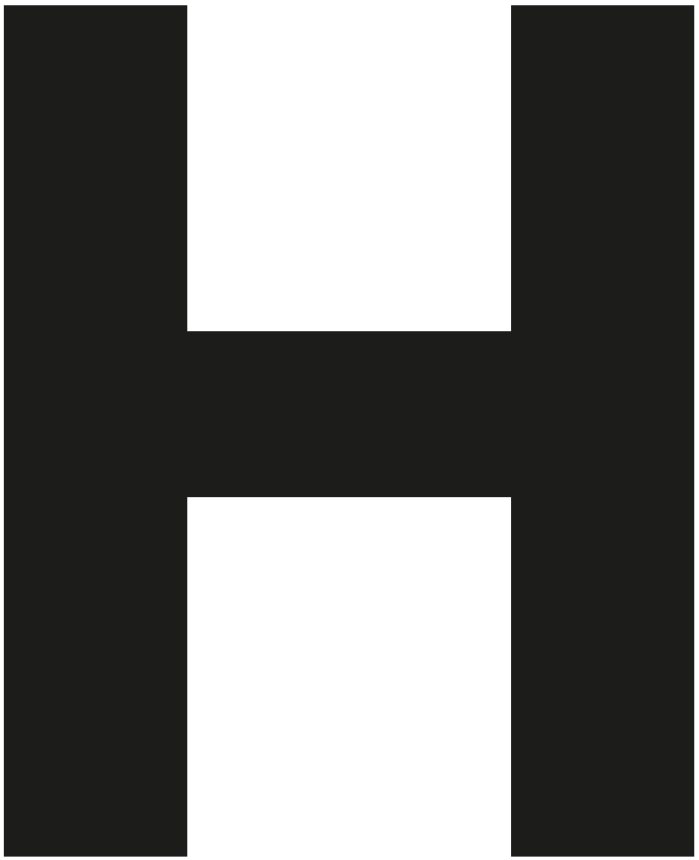

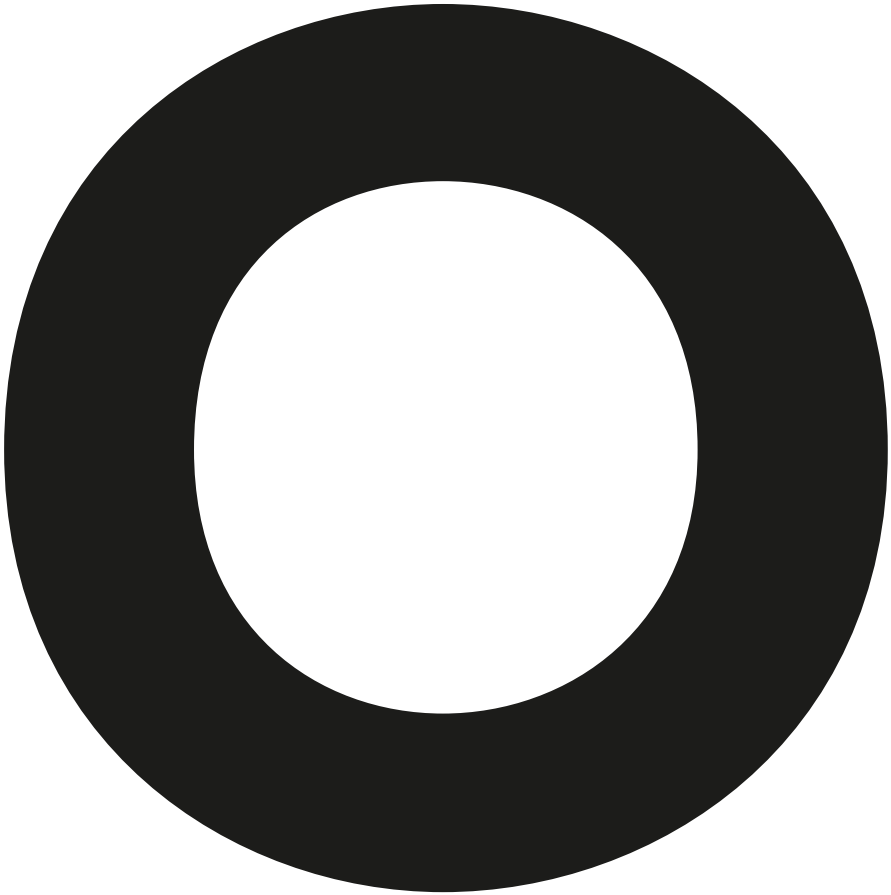

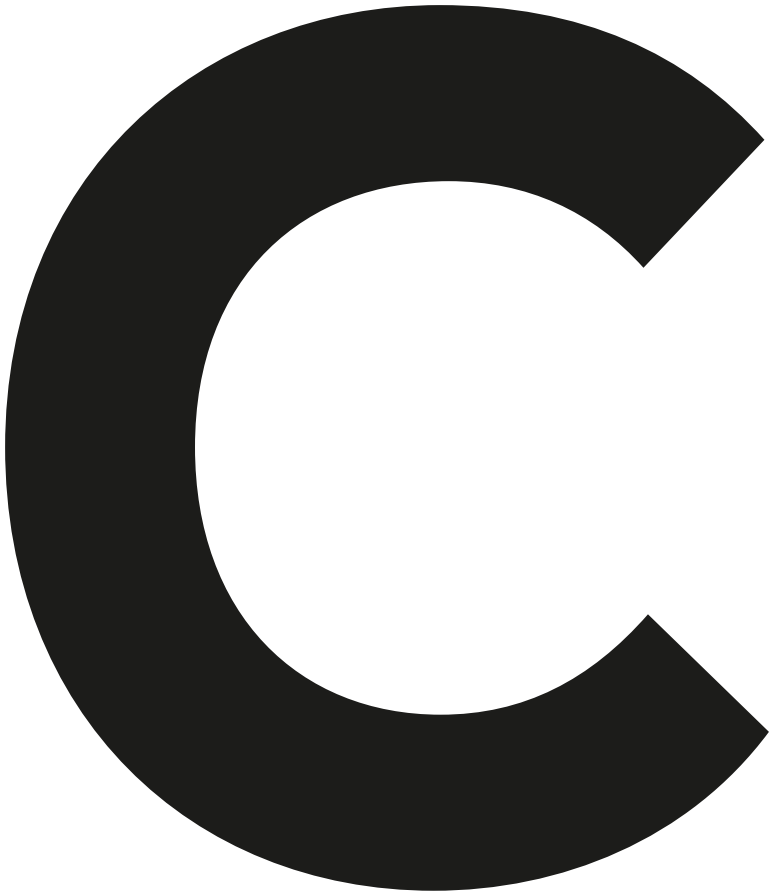

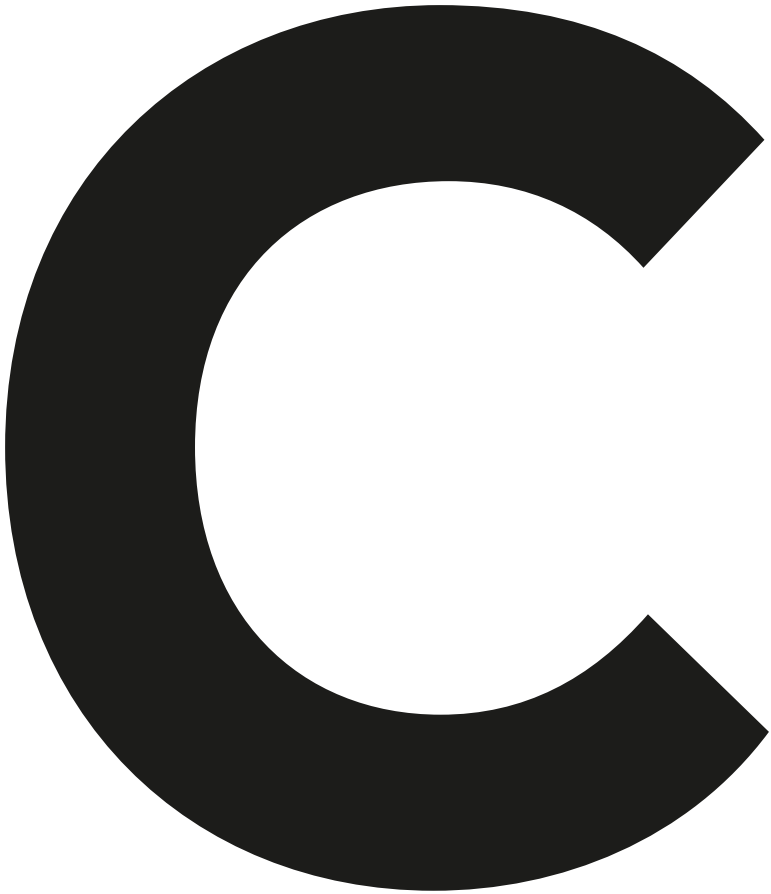

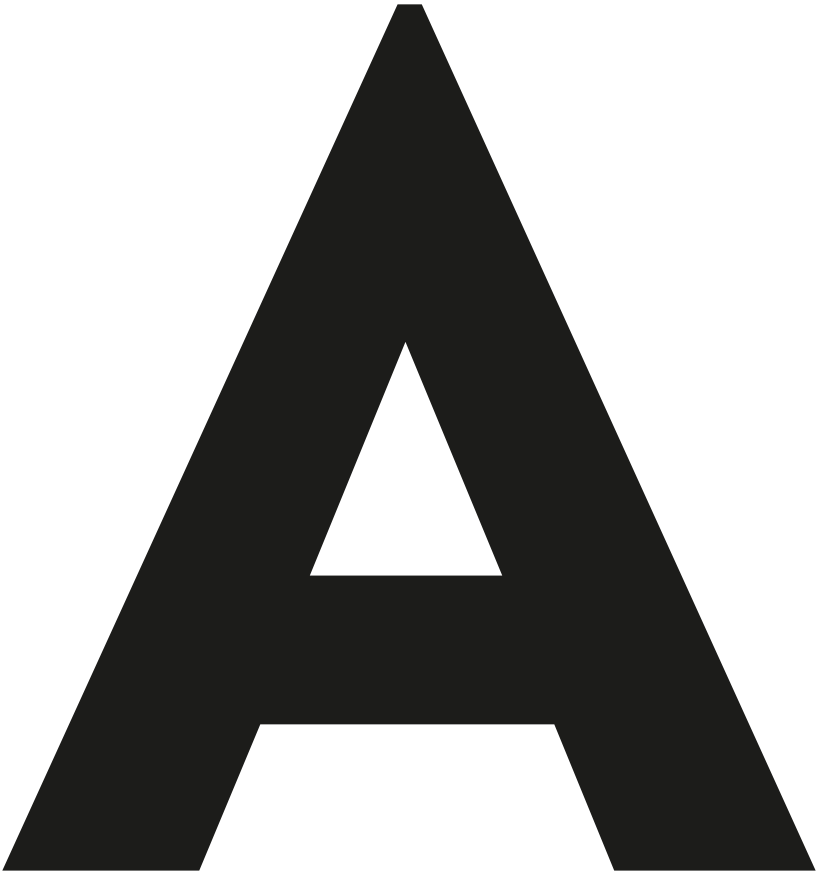

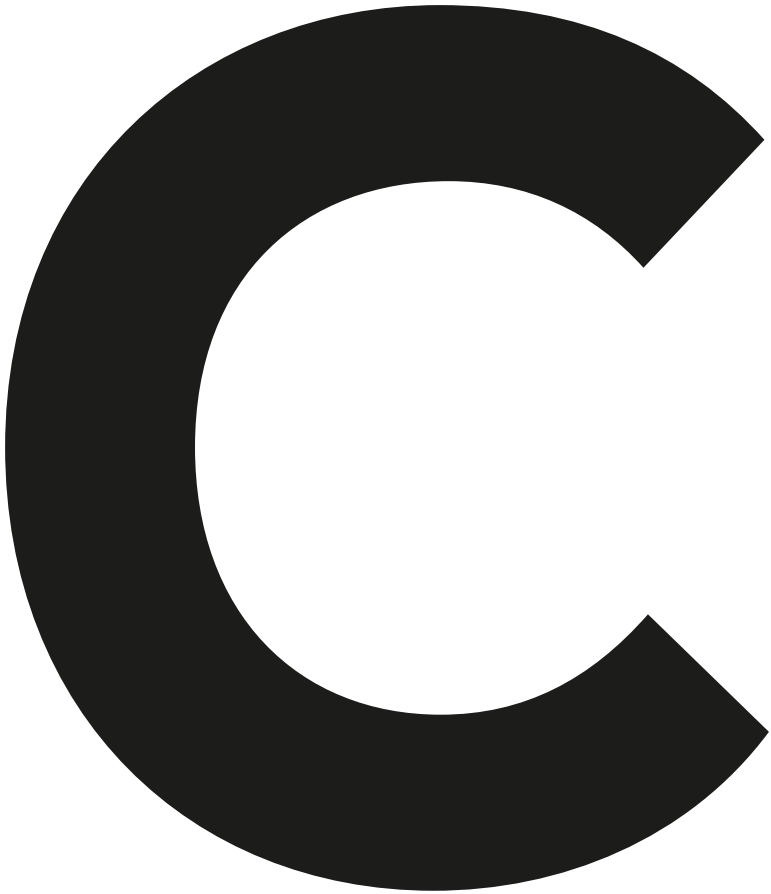

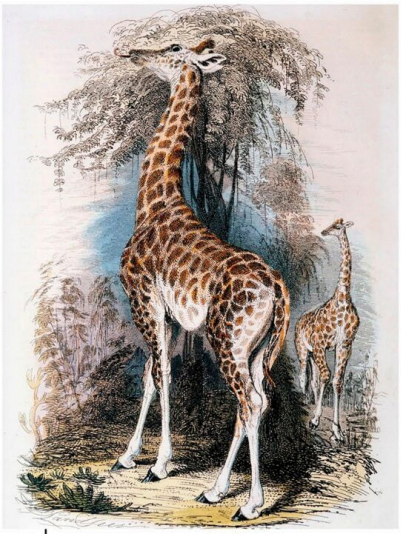

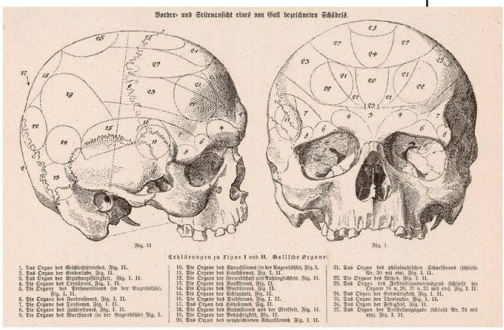
Vorder- und Seitenansicht eines von Gall bezeichneten Schädels.
Fig. II
Fig. I
Erklärungen zu Figur I und II. Gallsche Organe:

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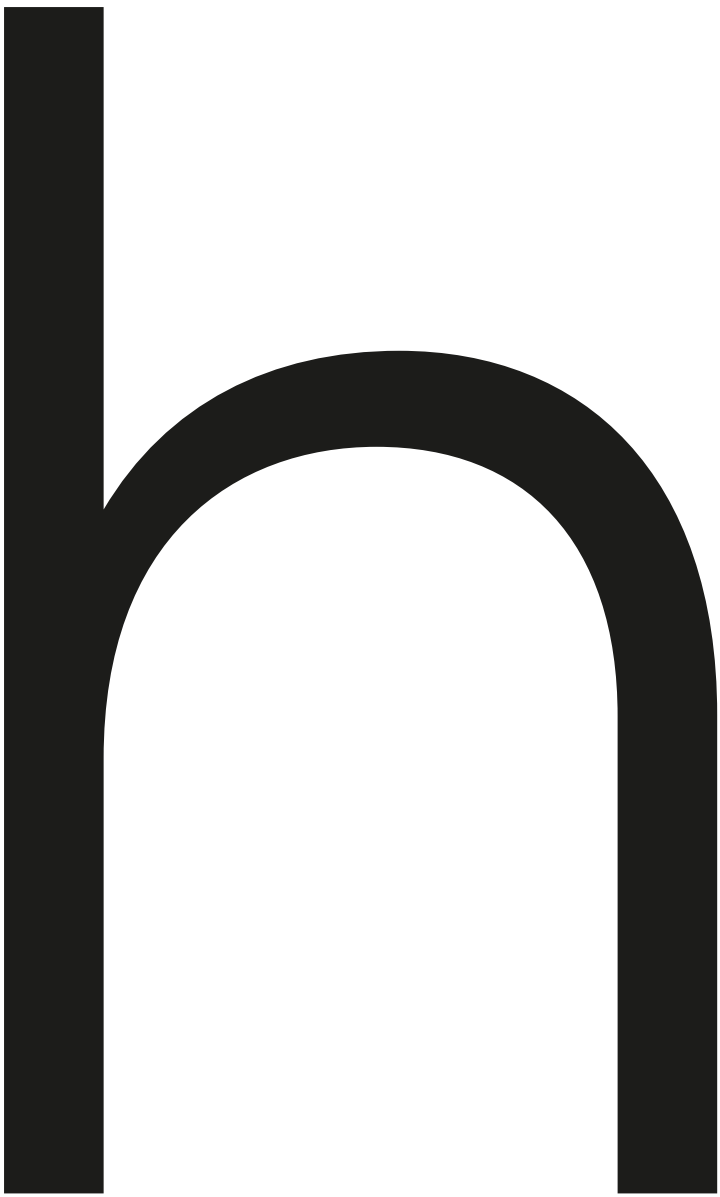

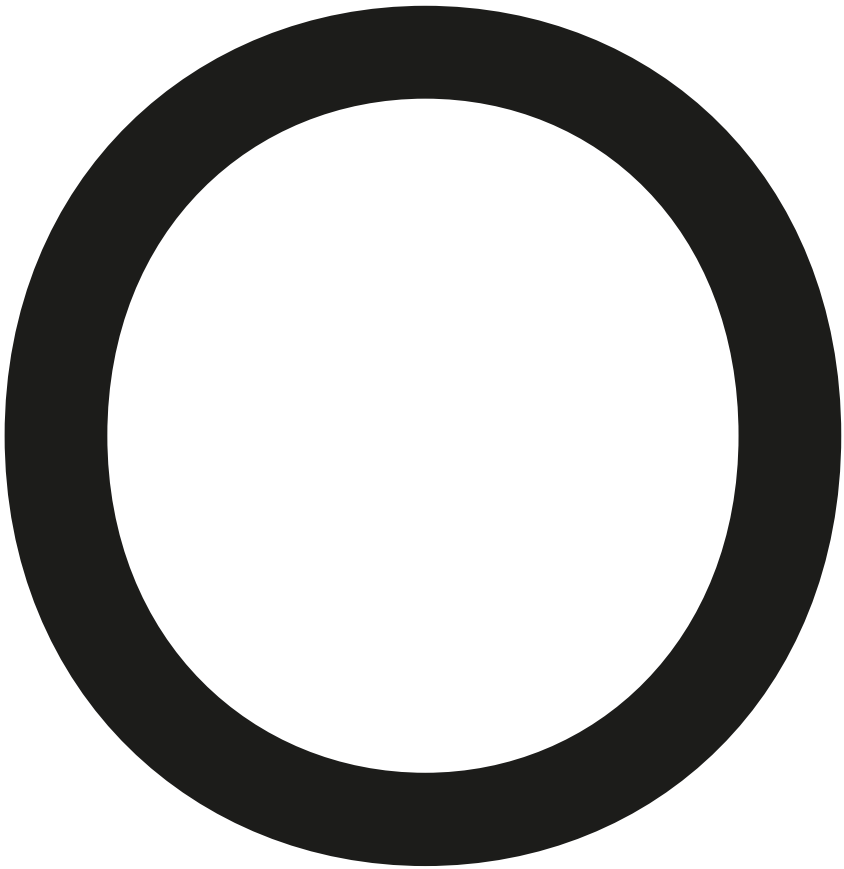

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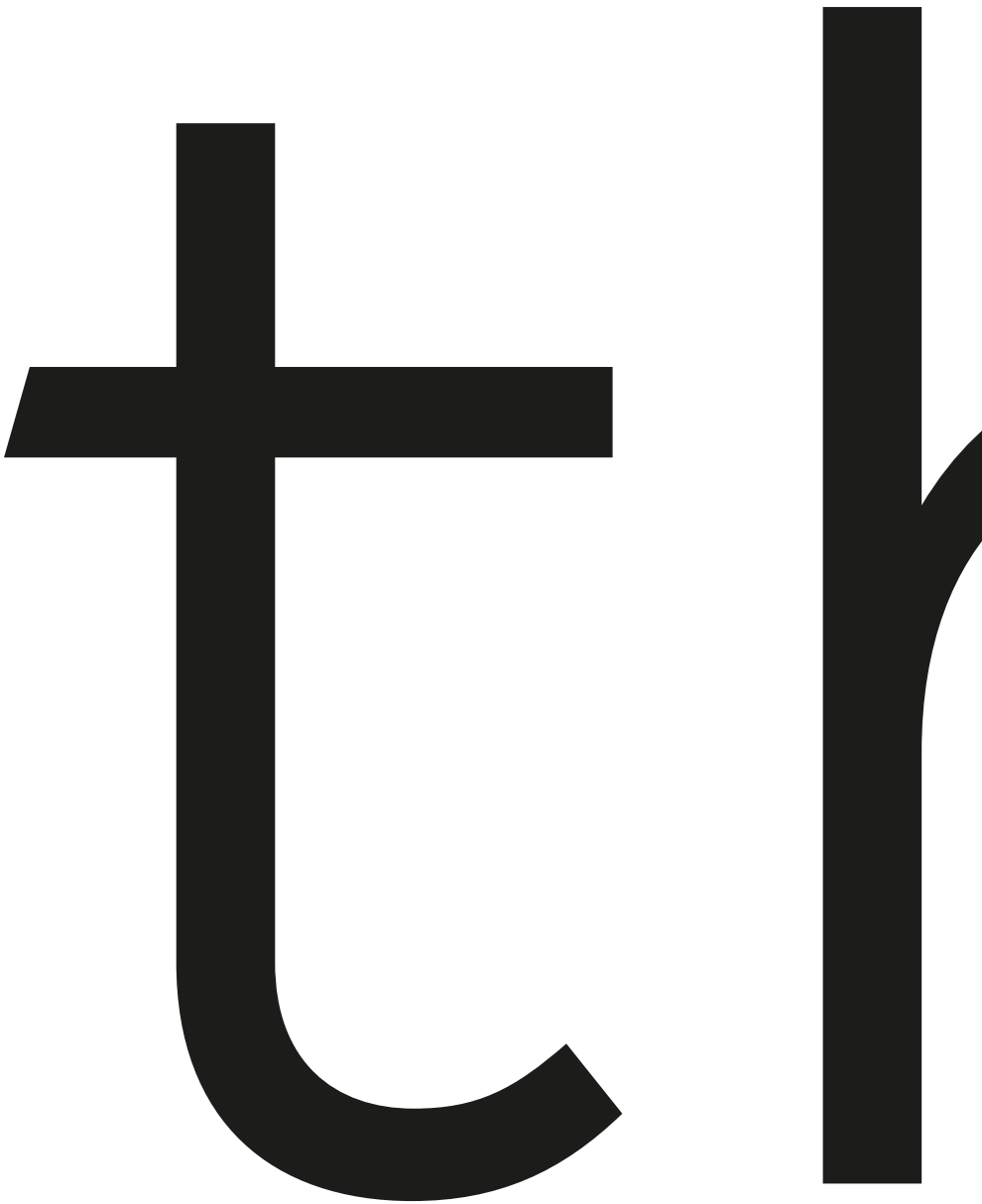

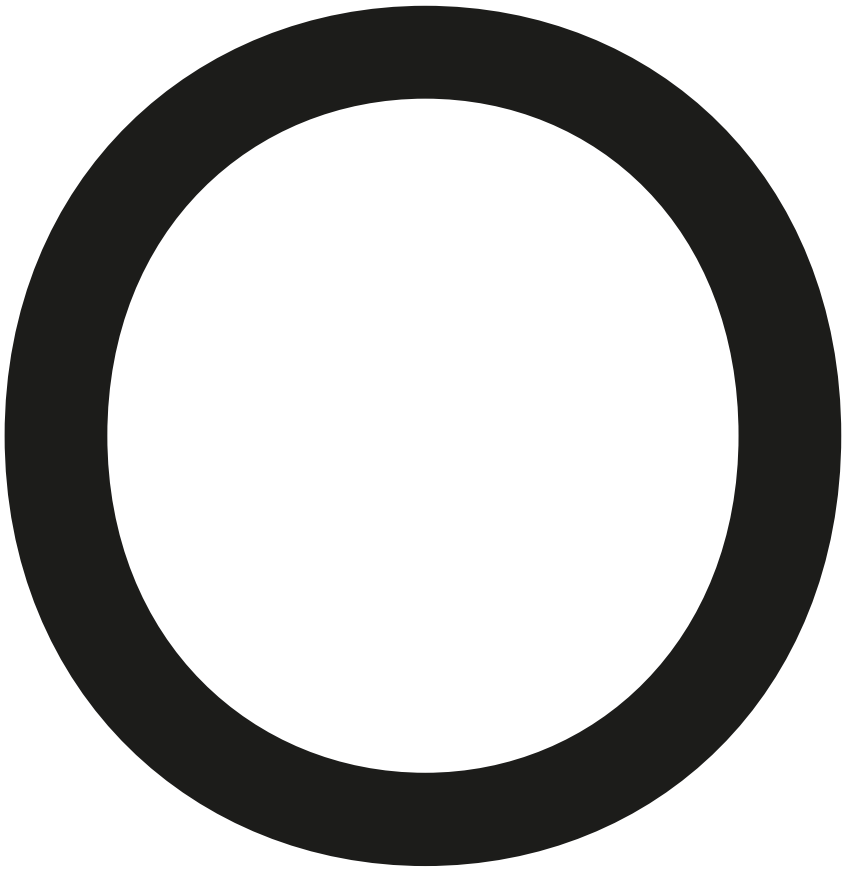

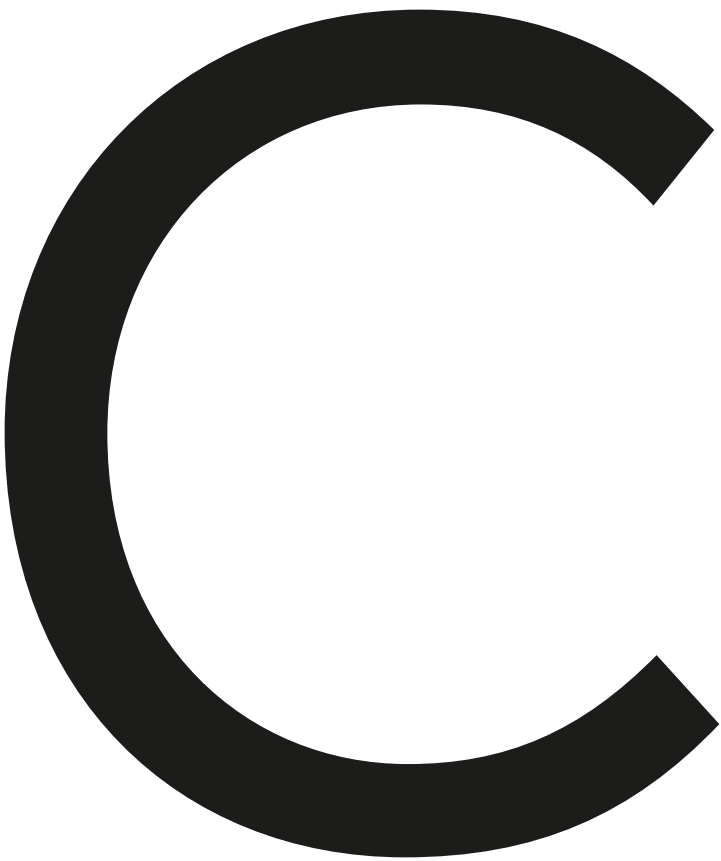

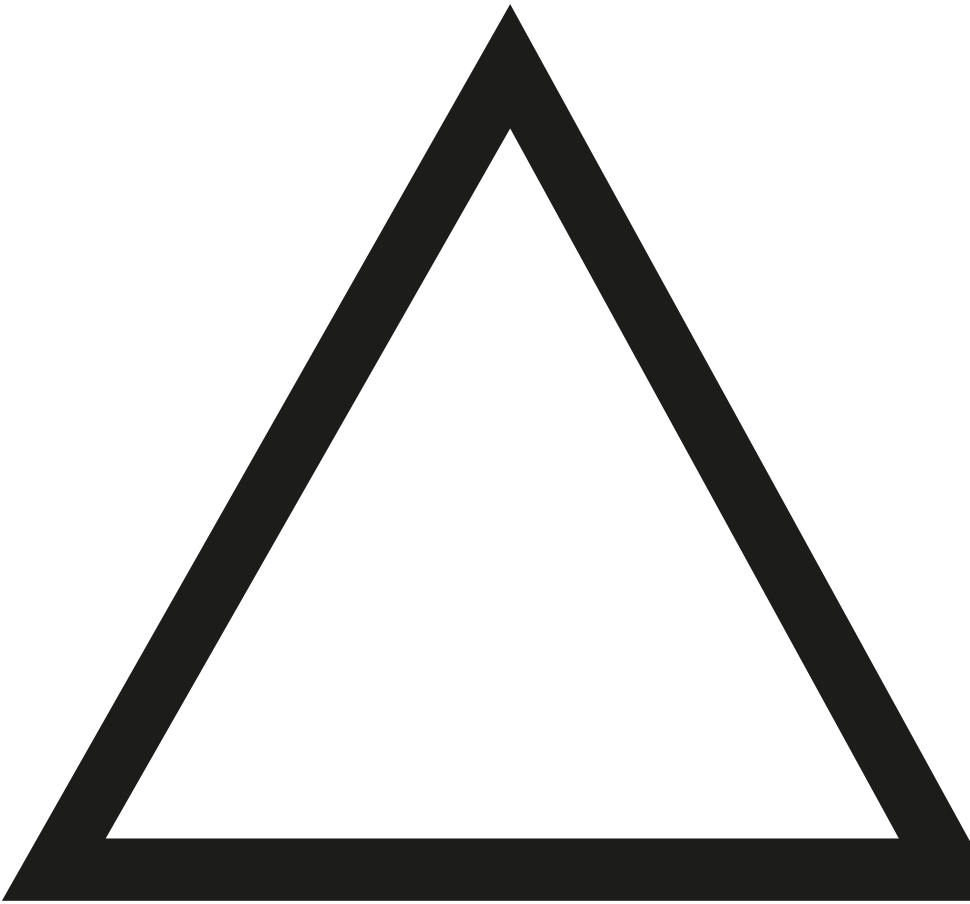

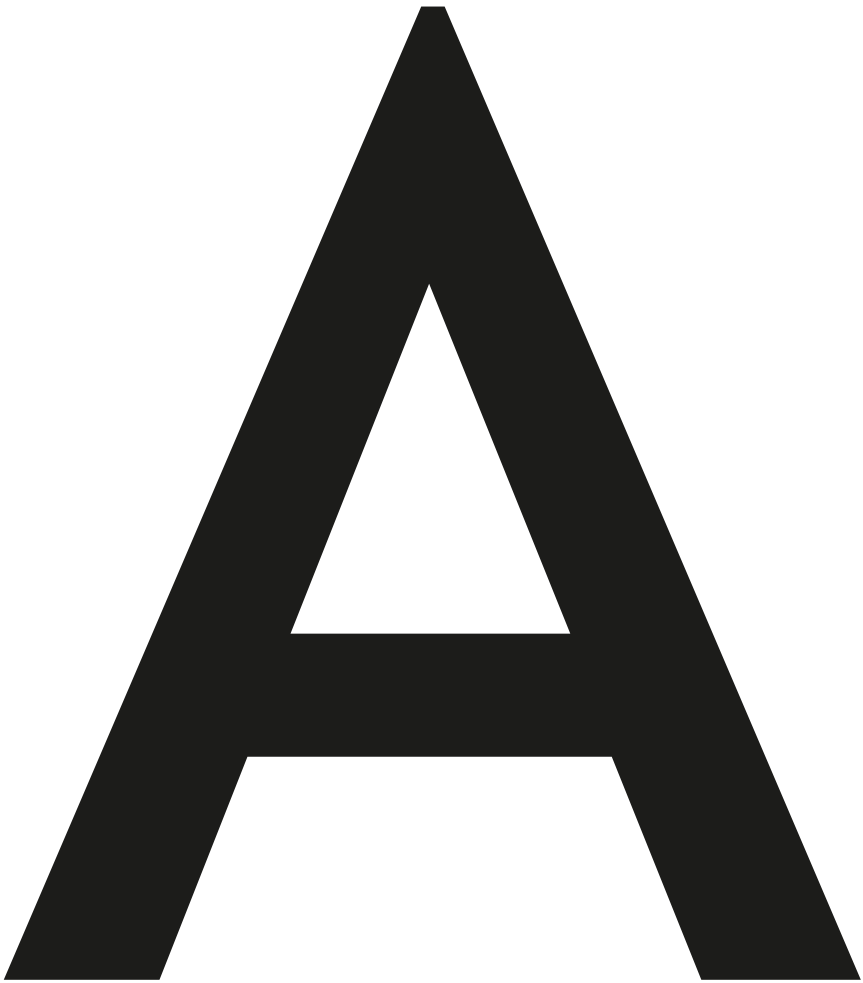

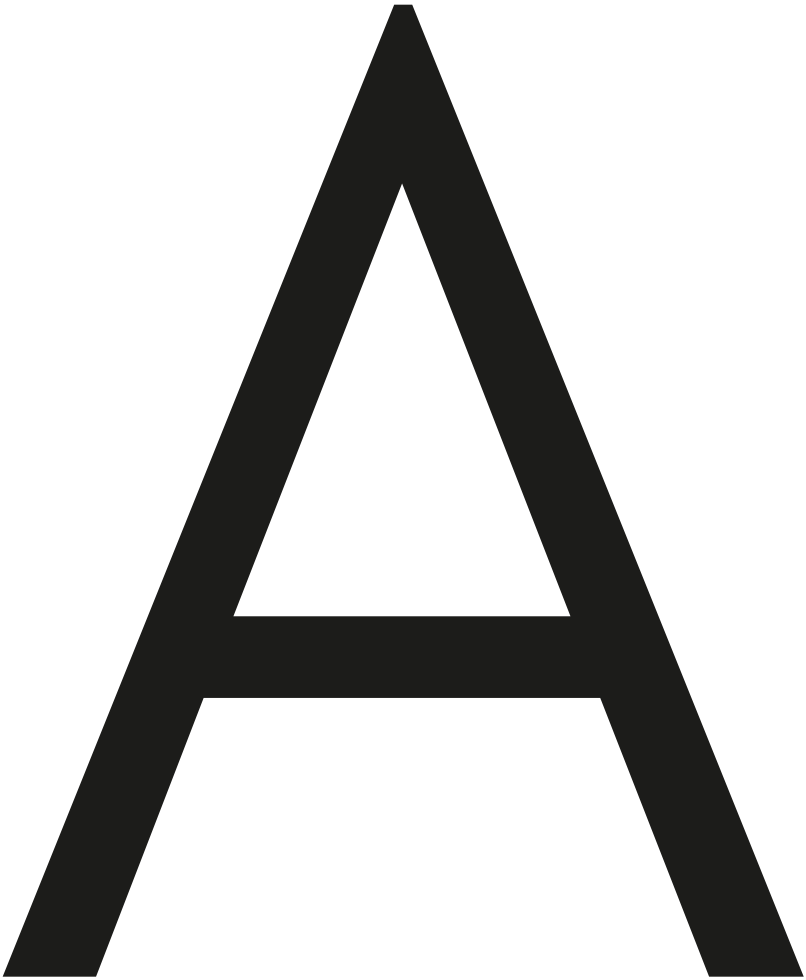

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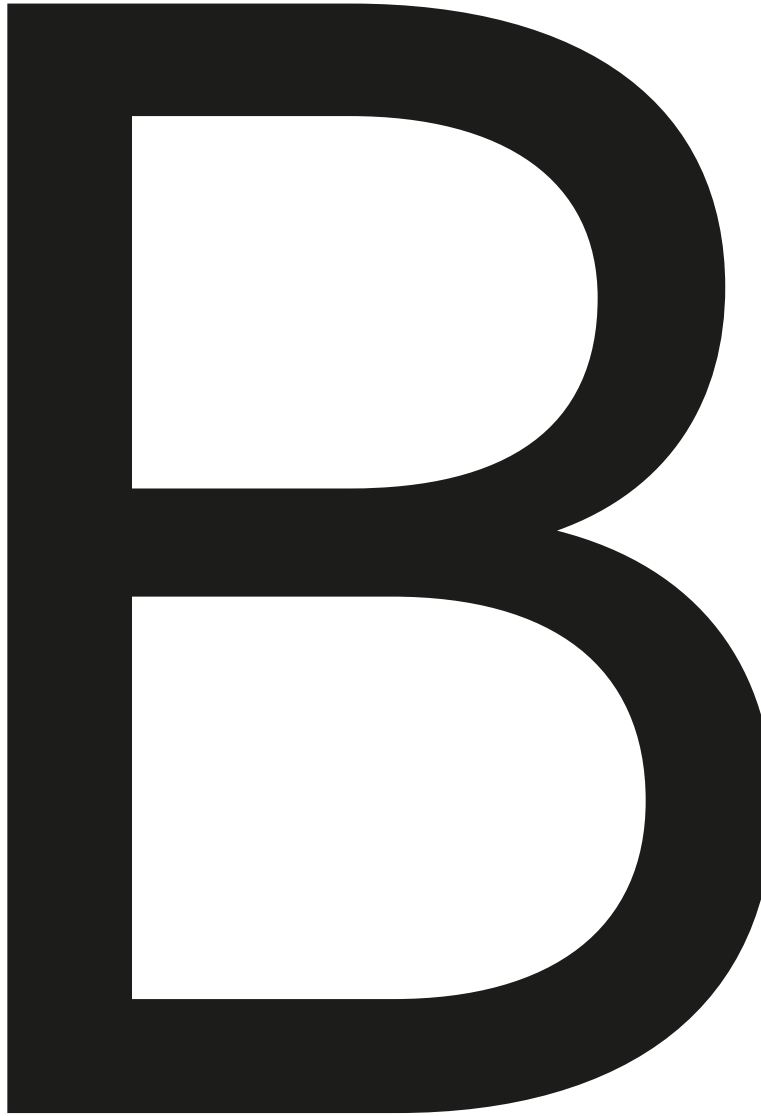

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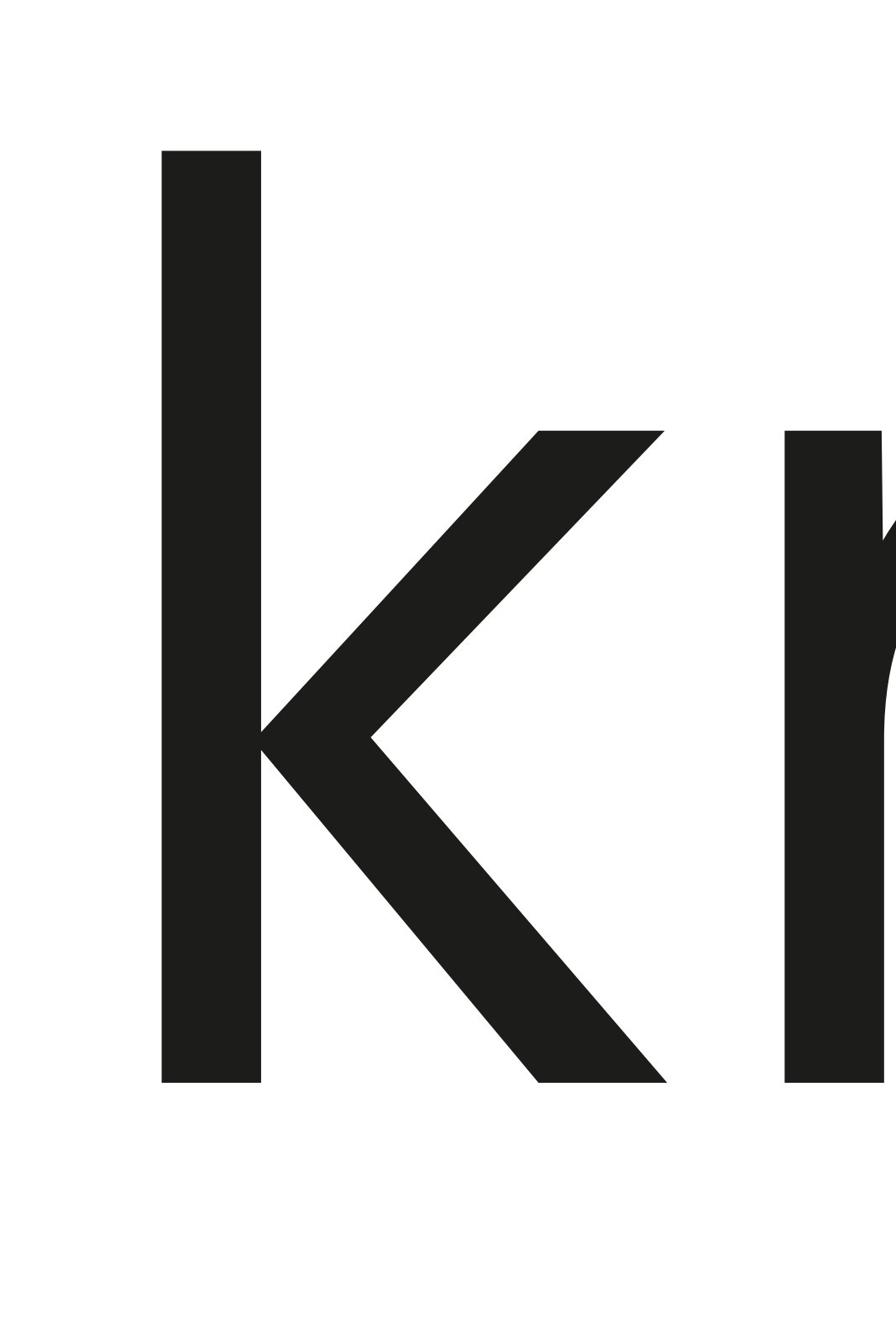

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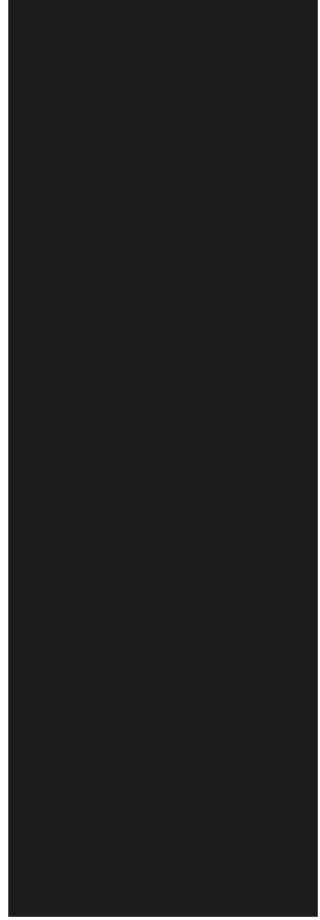

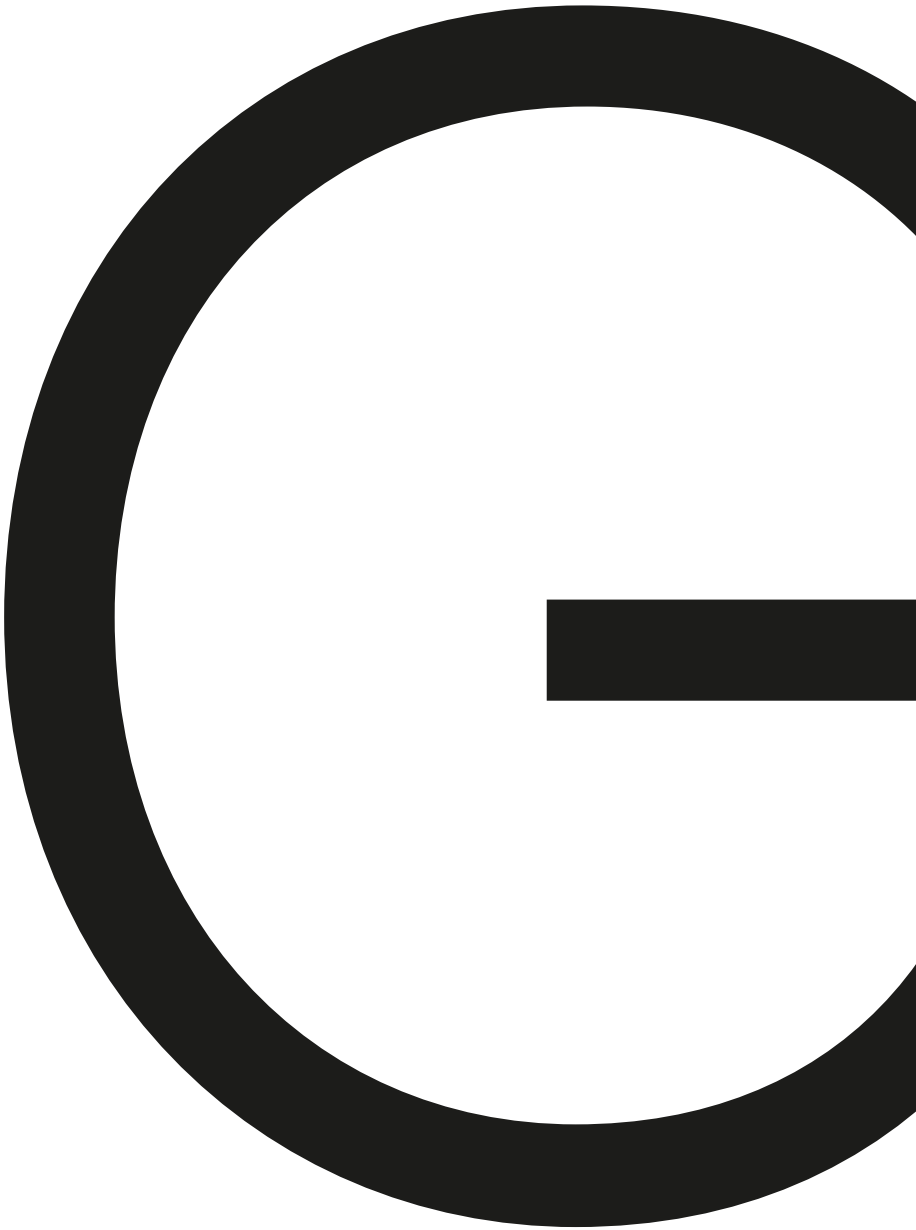

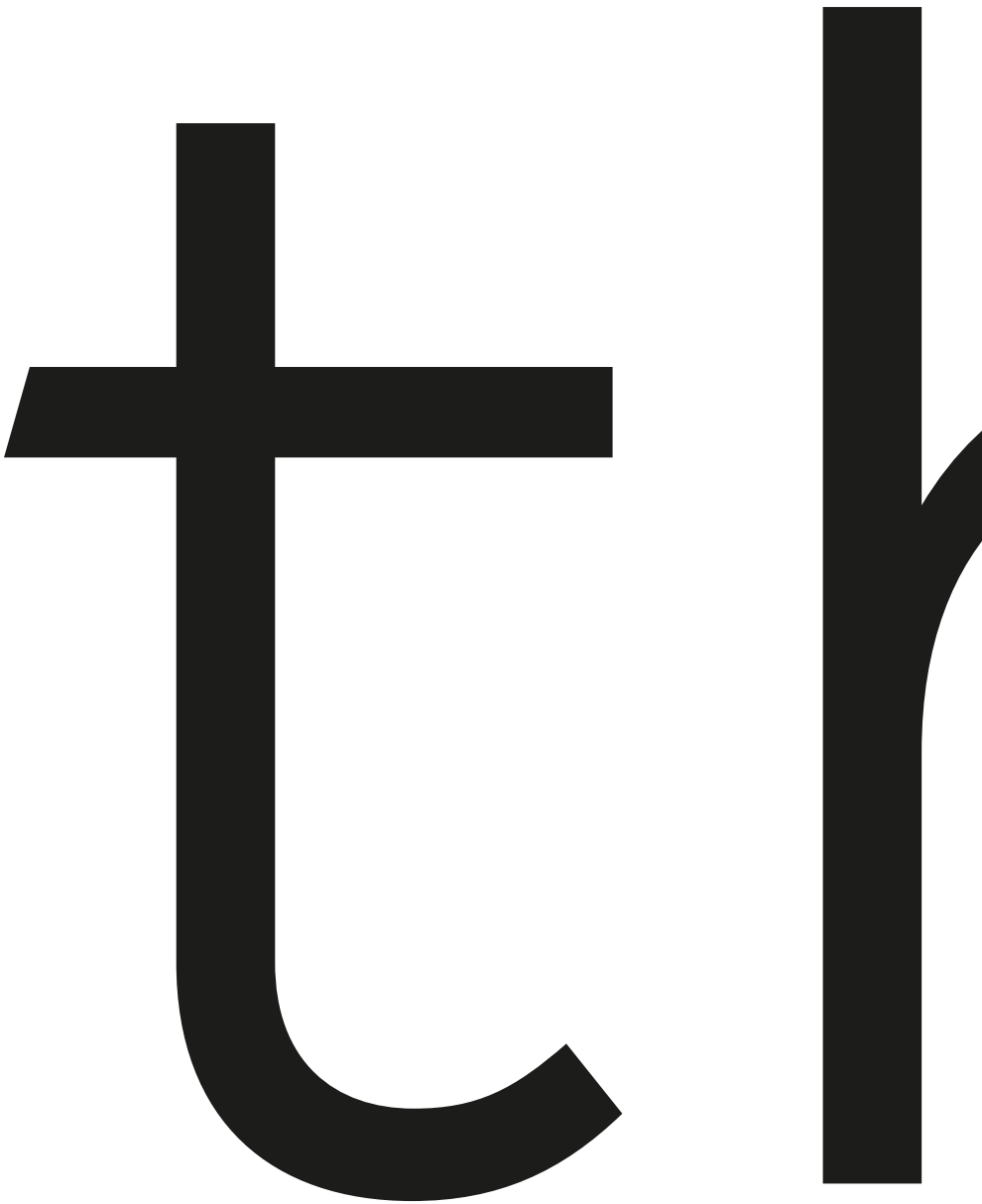

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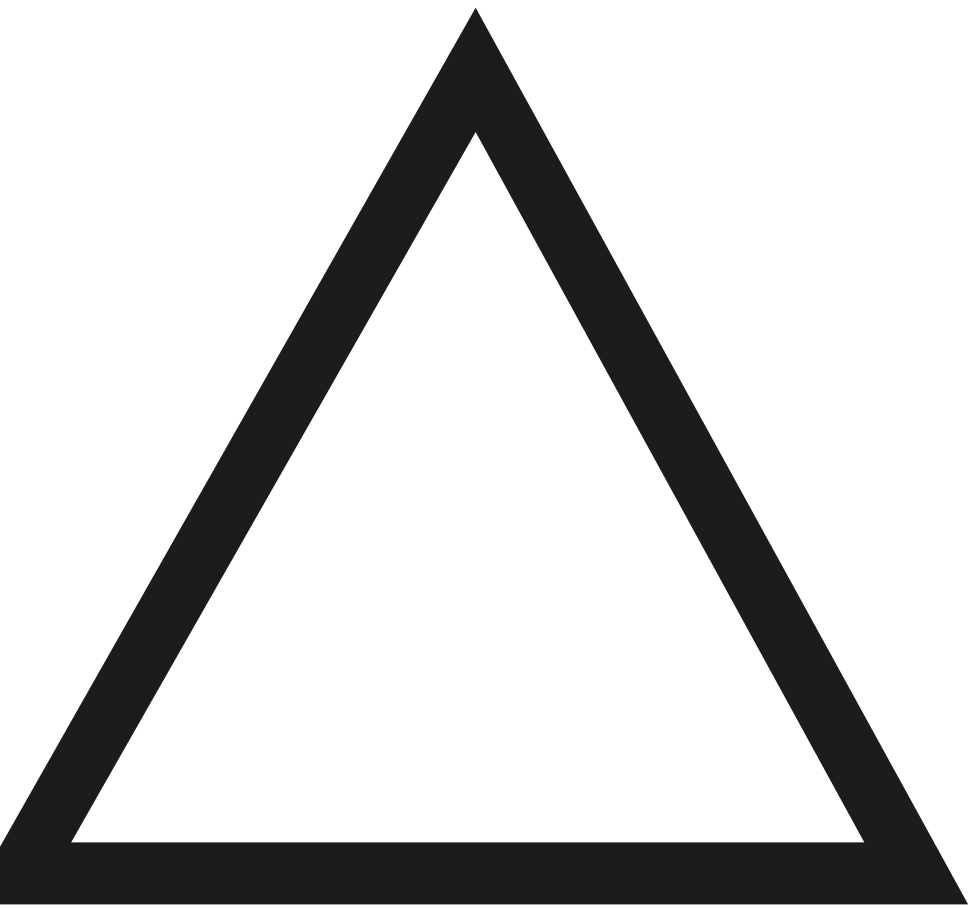

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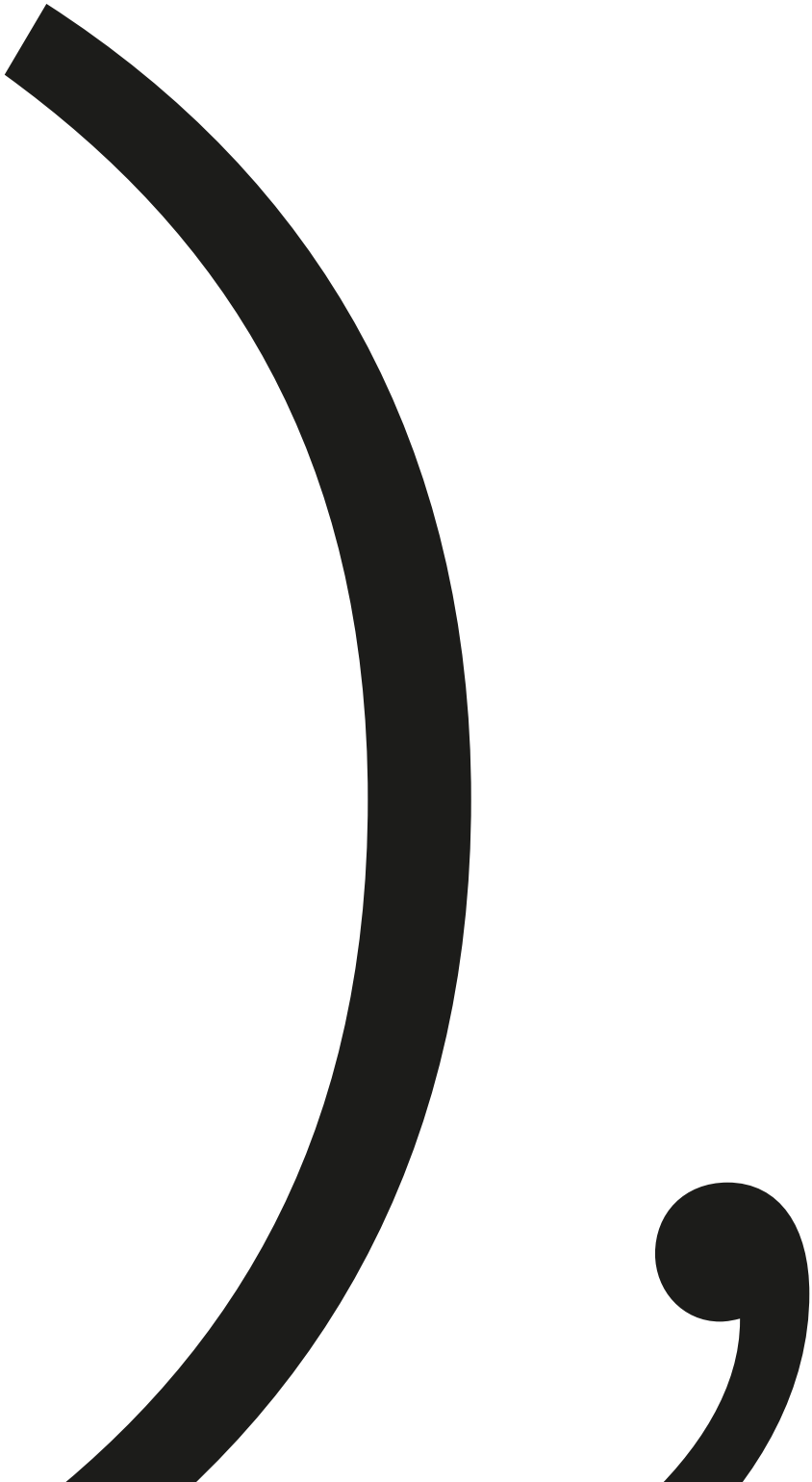

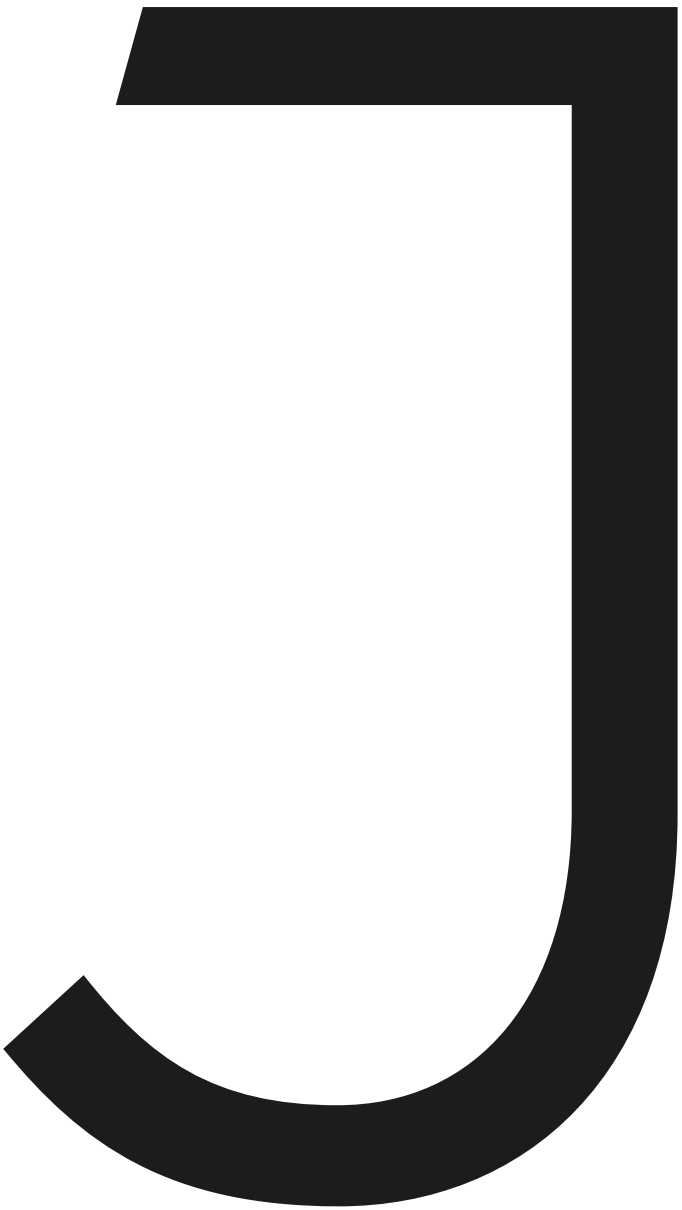

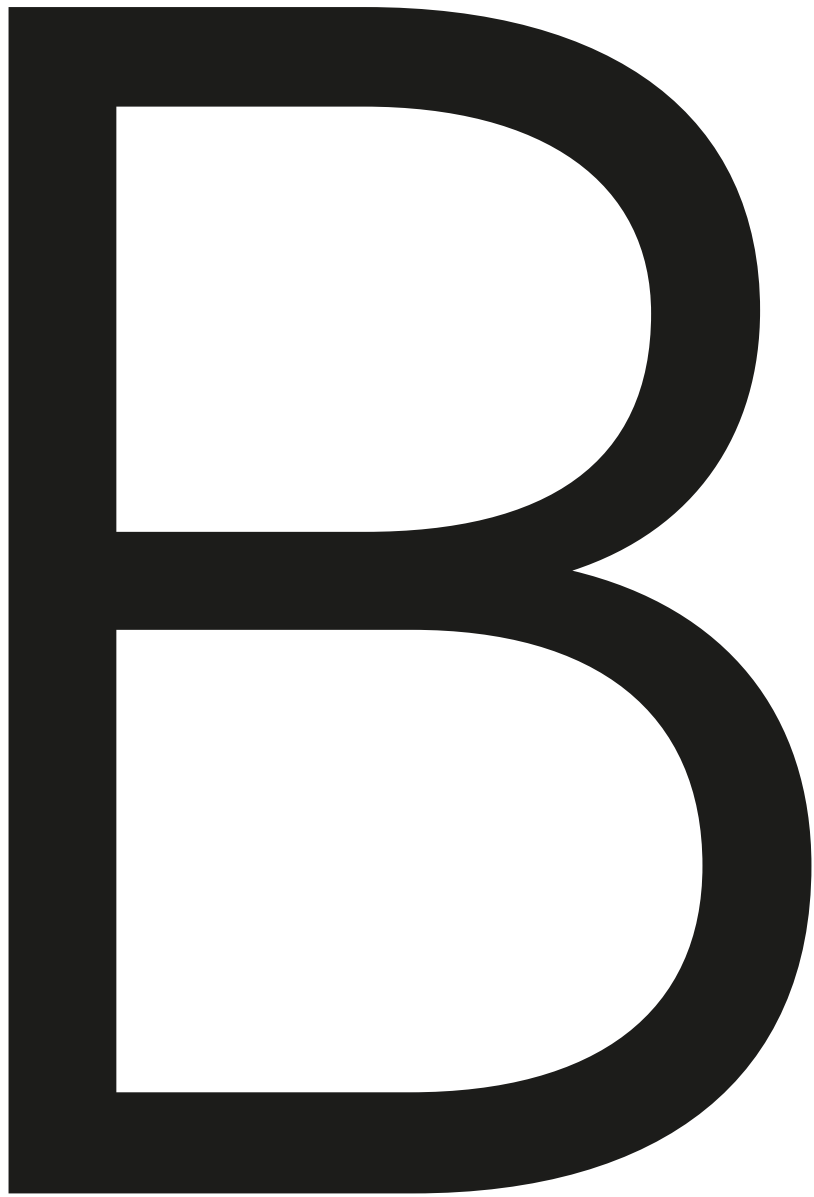

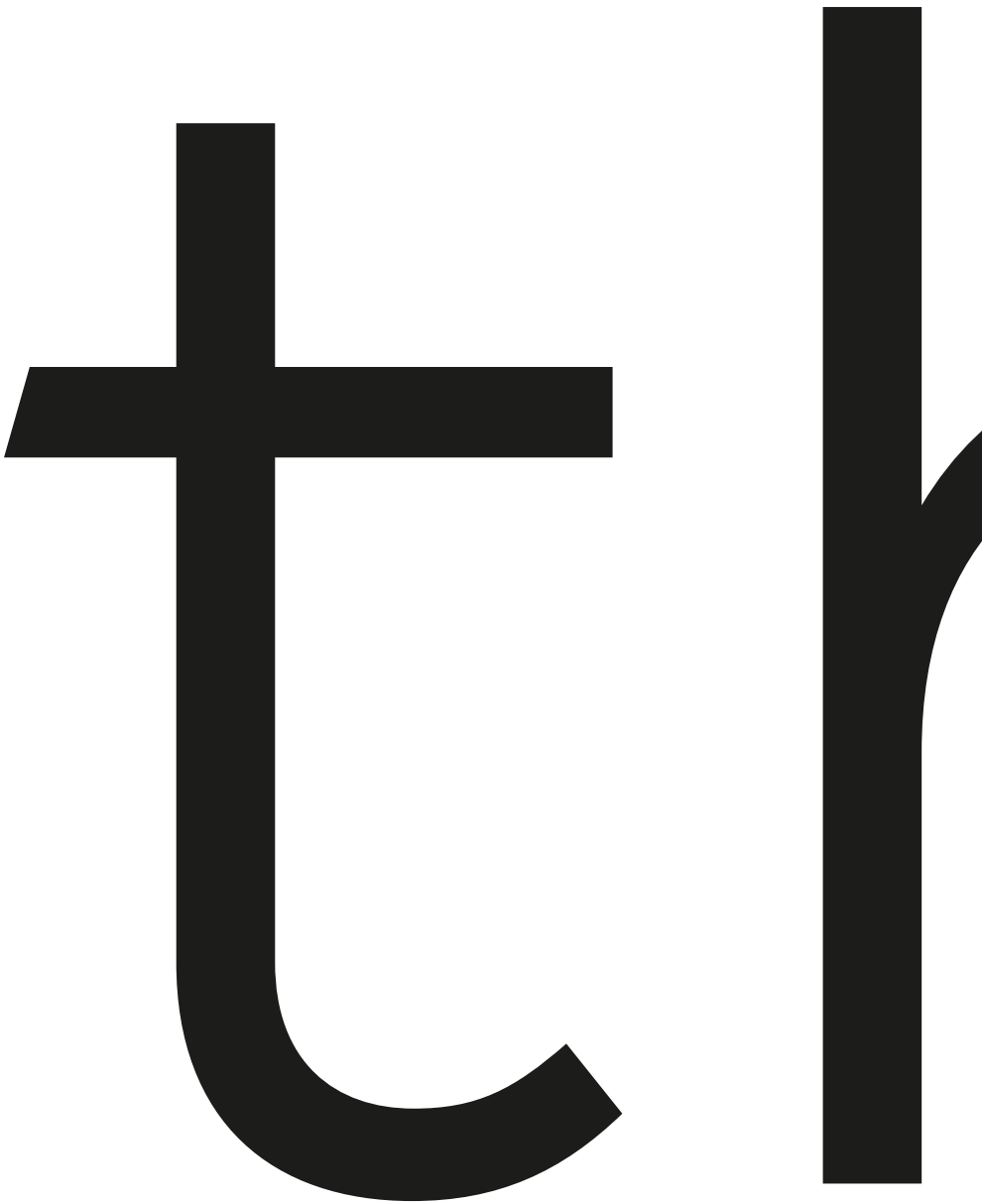

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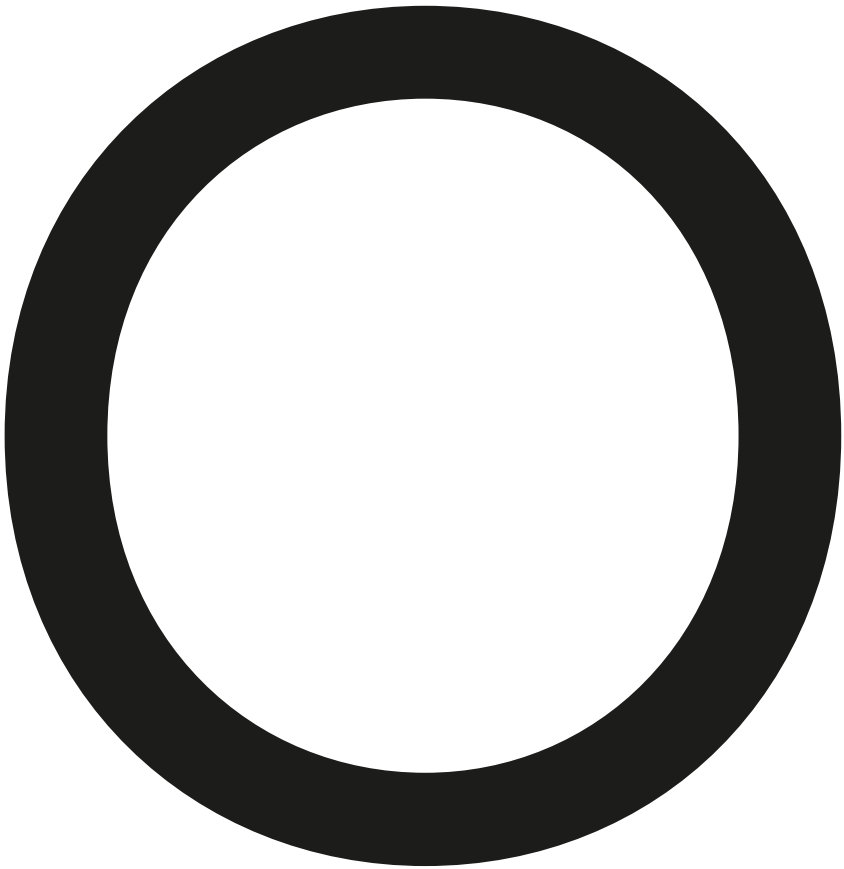

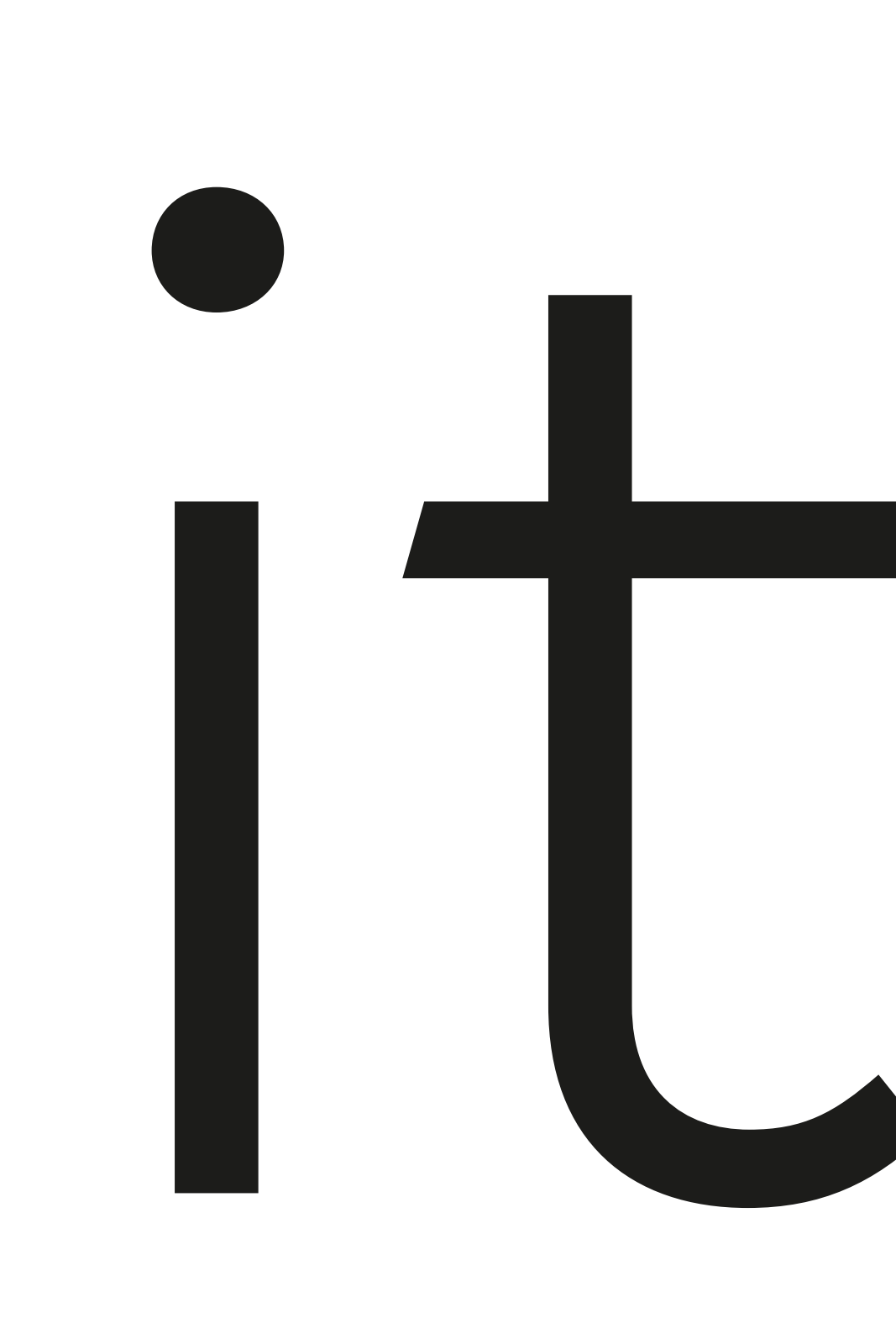
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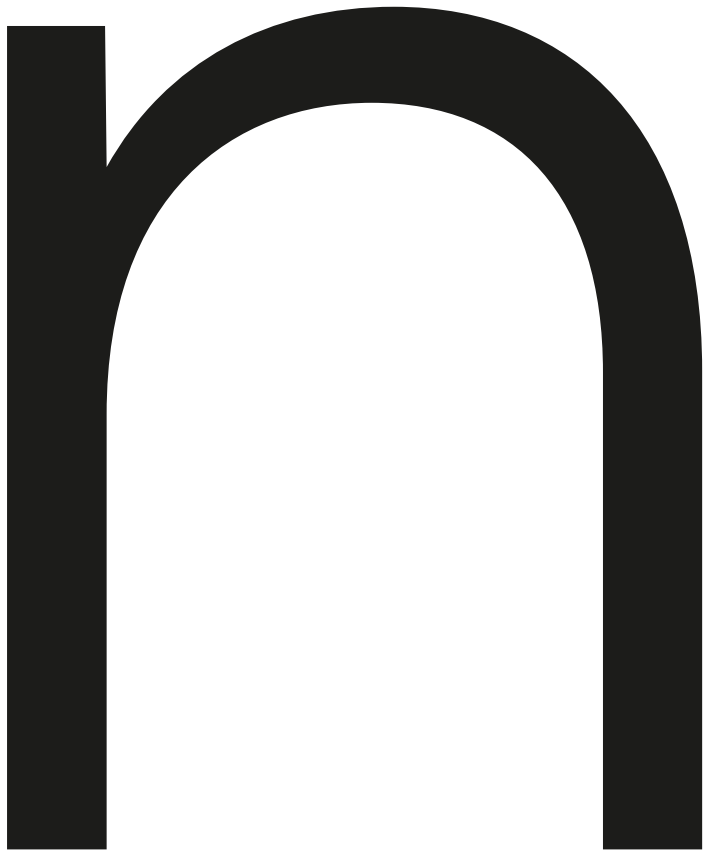

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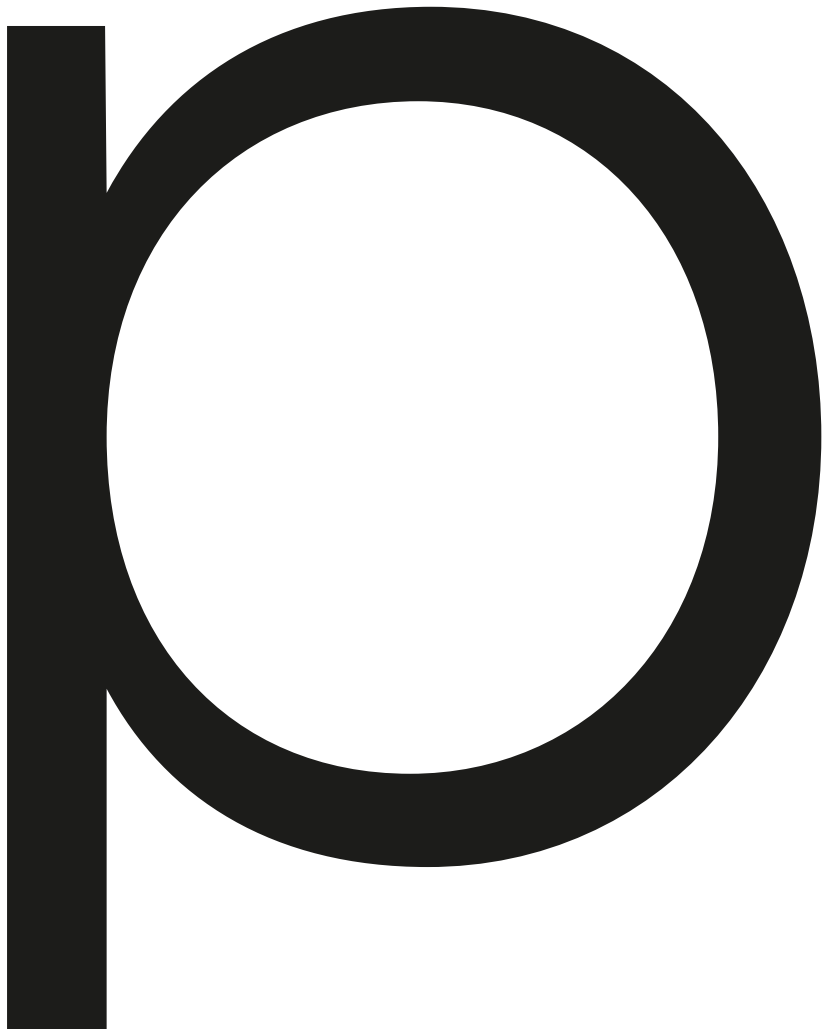

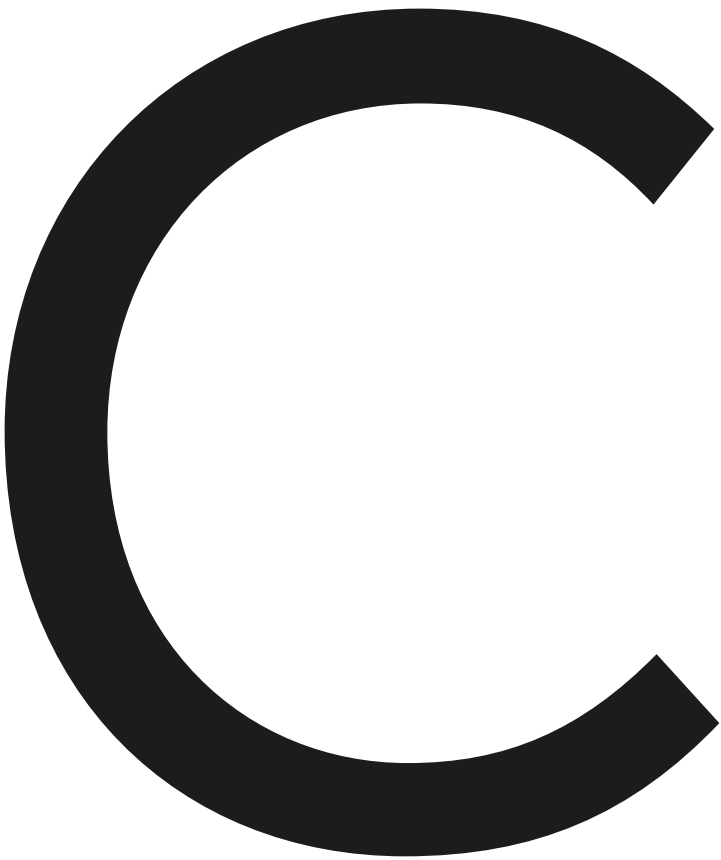

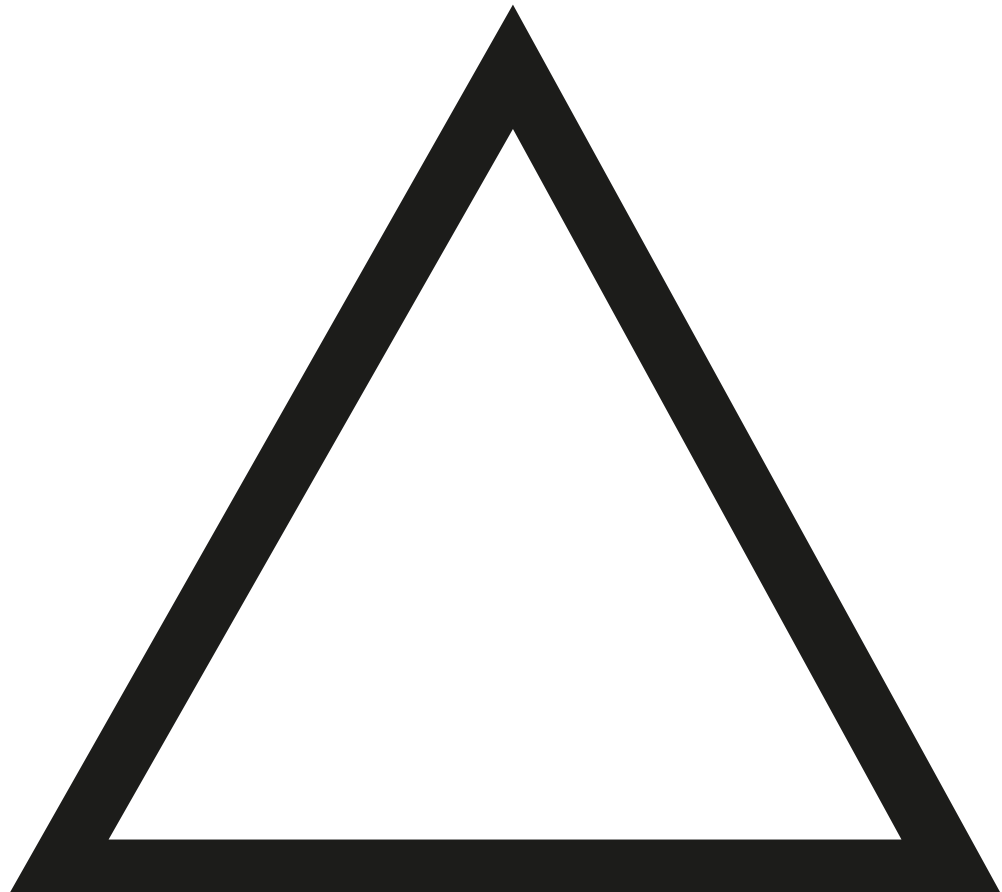

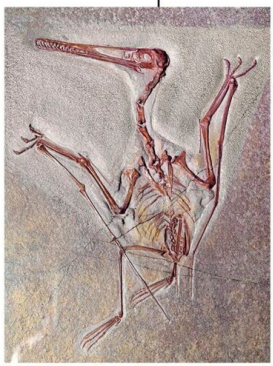

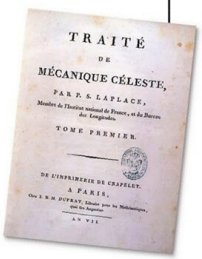
TRAITÉ
DE
MÉCANIQUE CÉLESTE,
PAR P. S. LAPLACE,
Membre de l'Institut national de France, et du Bureau des Longitudes.
TOME PREMIER.
DE L'IMPRIMERIE DE CRAPELET.
A PARIS,
An VII.

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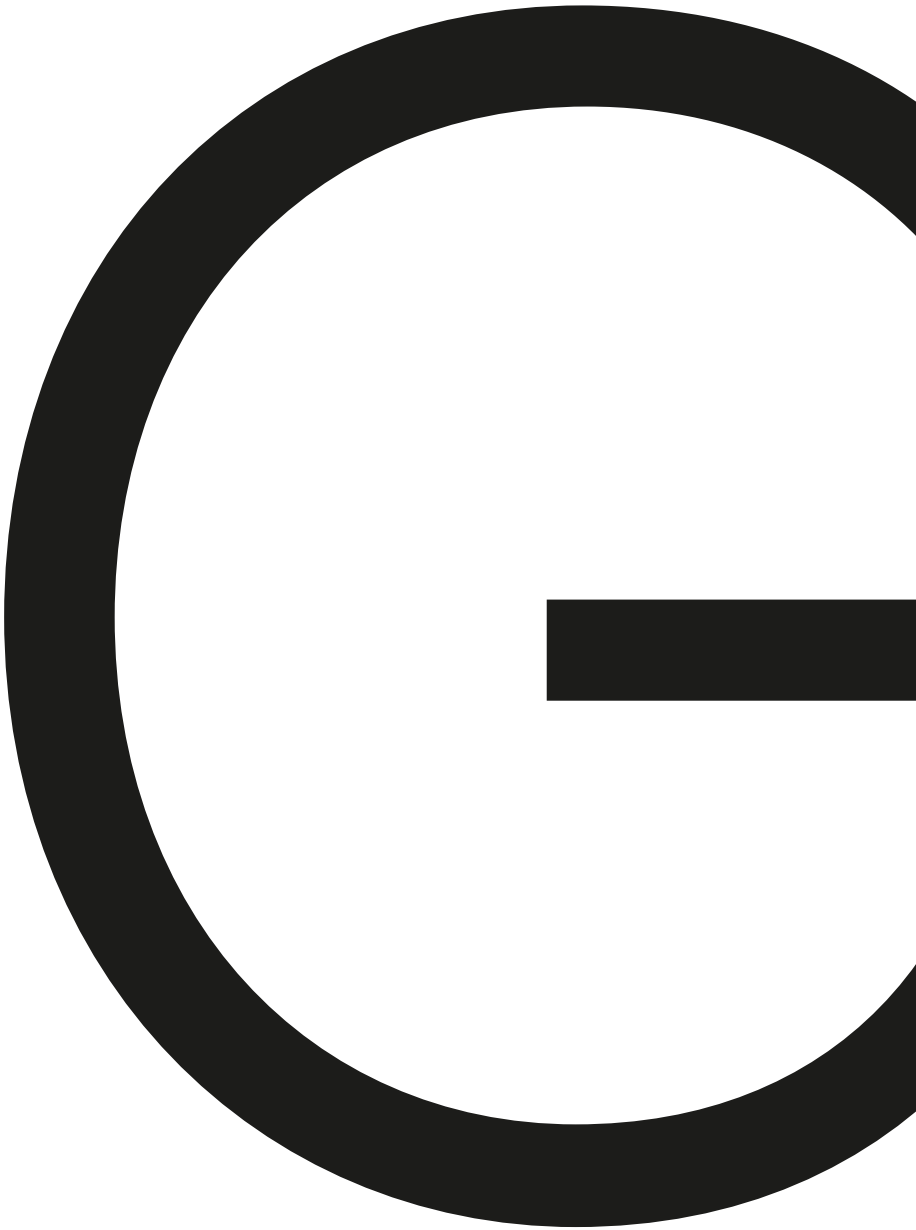

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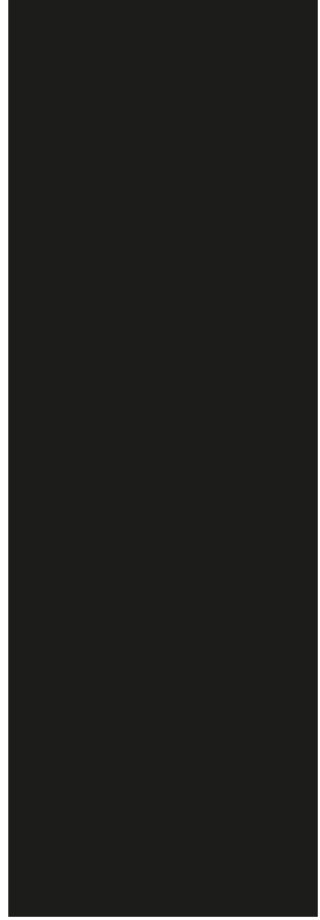

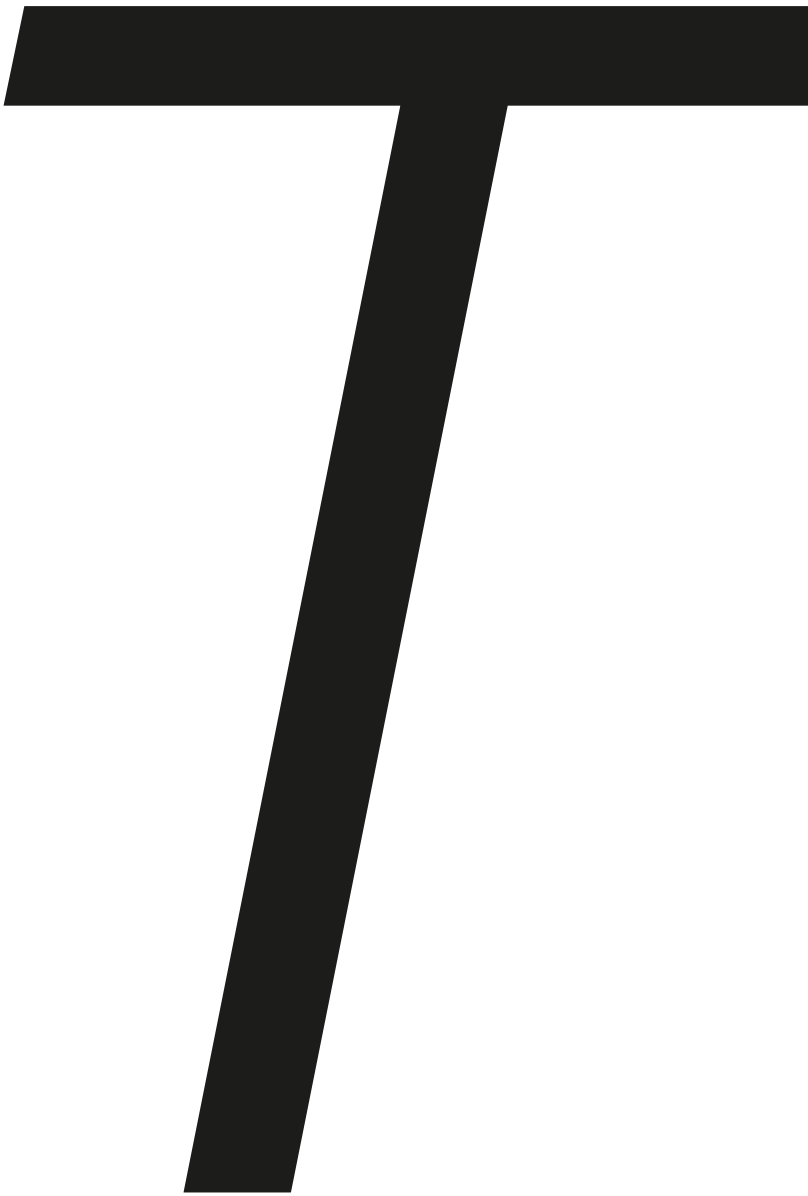

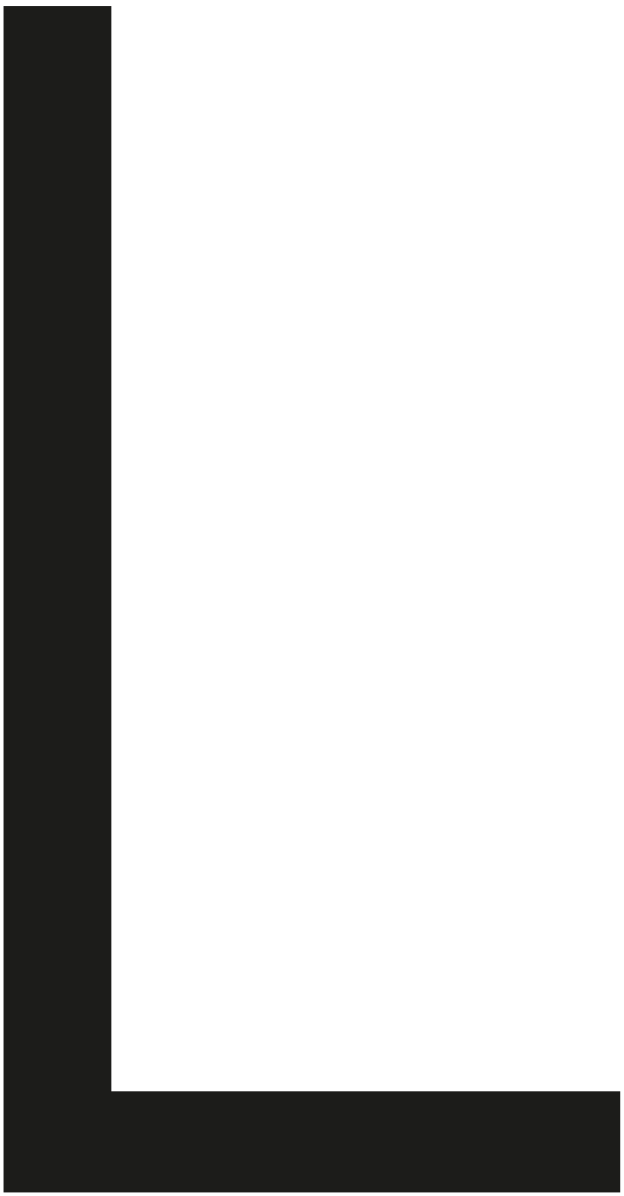

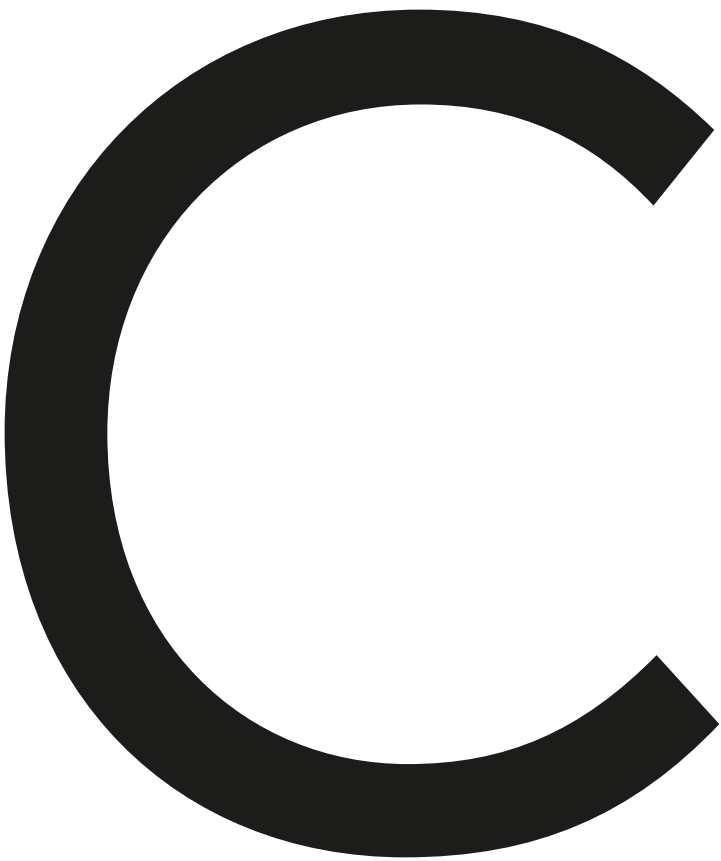

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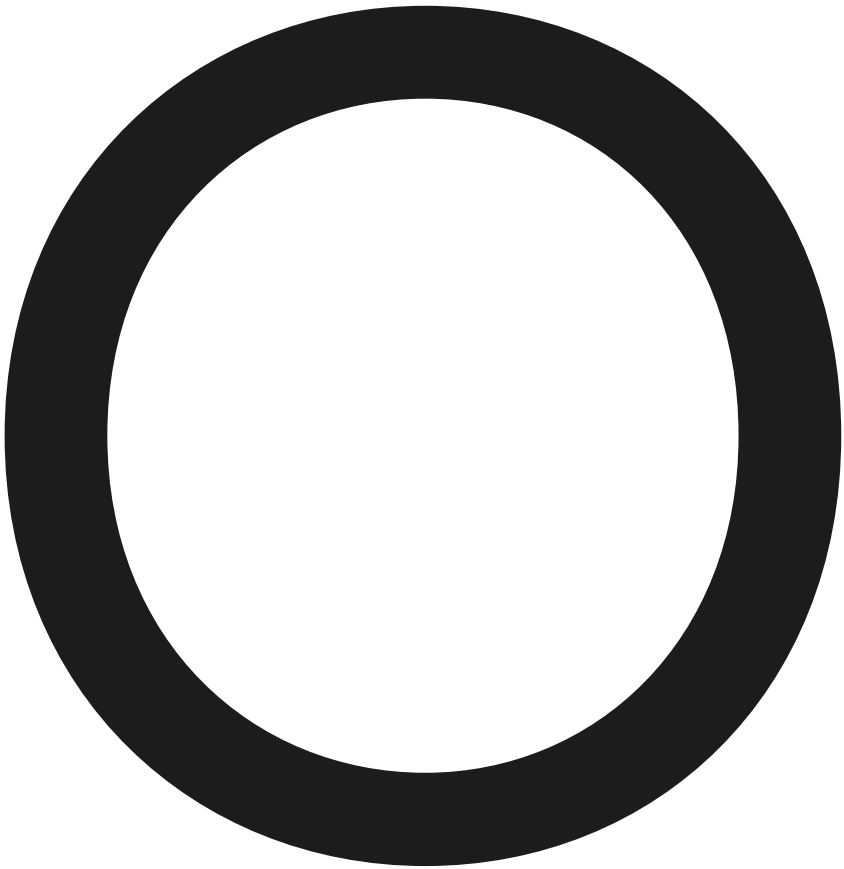

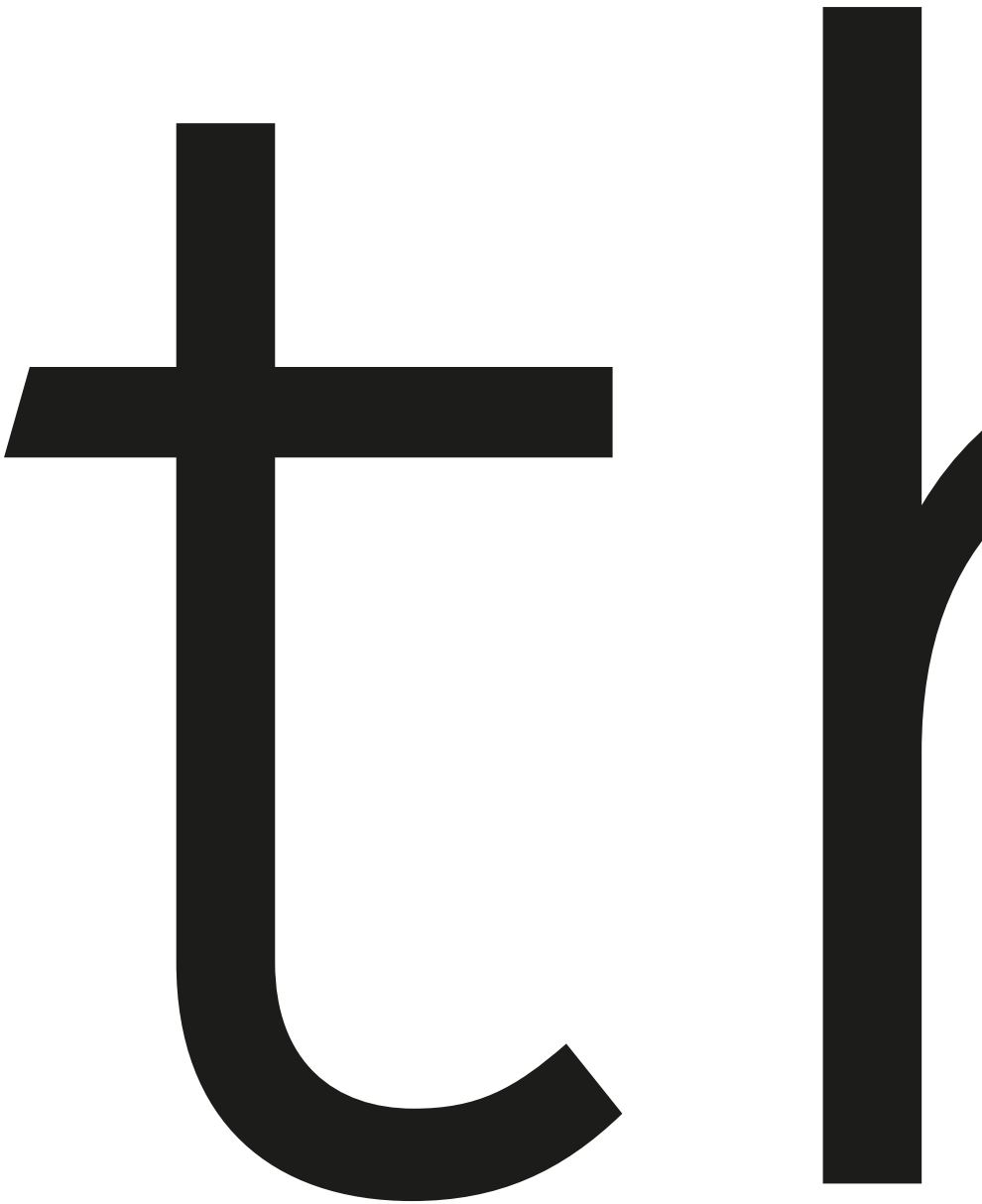

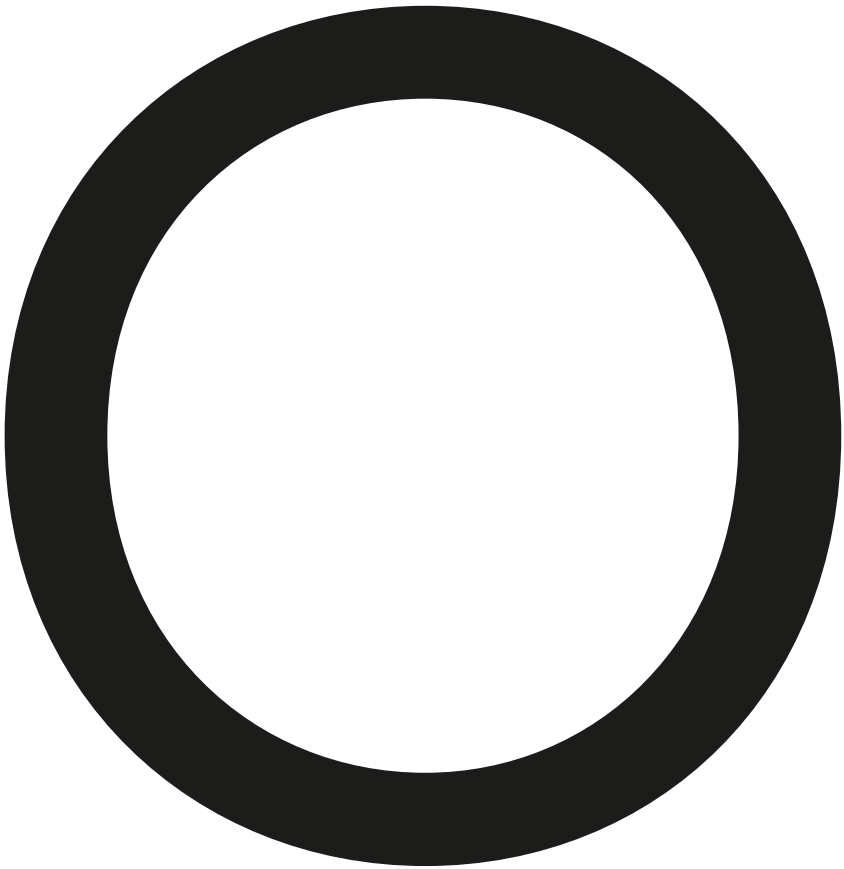

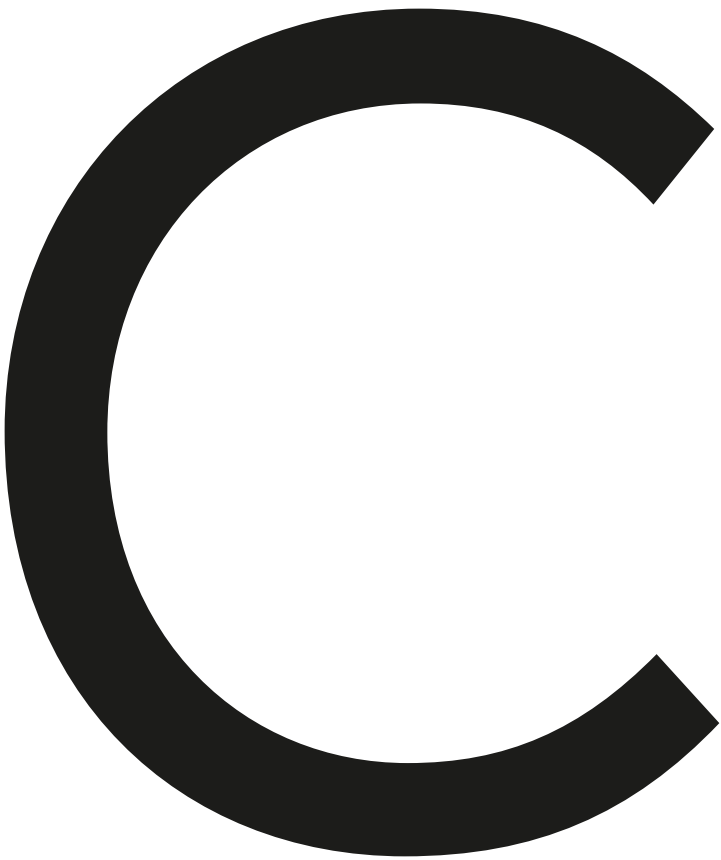

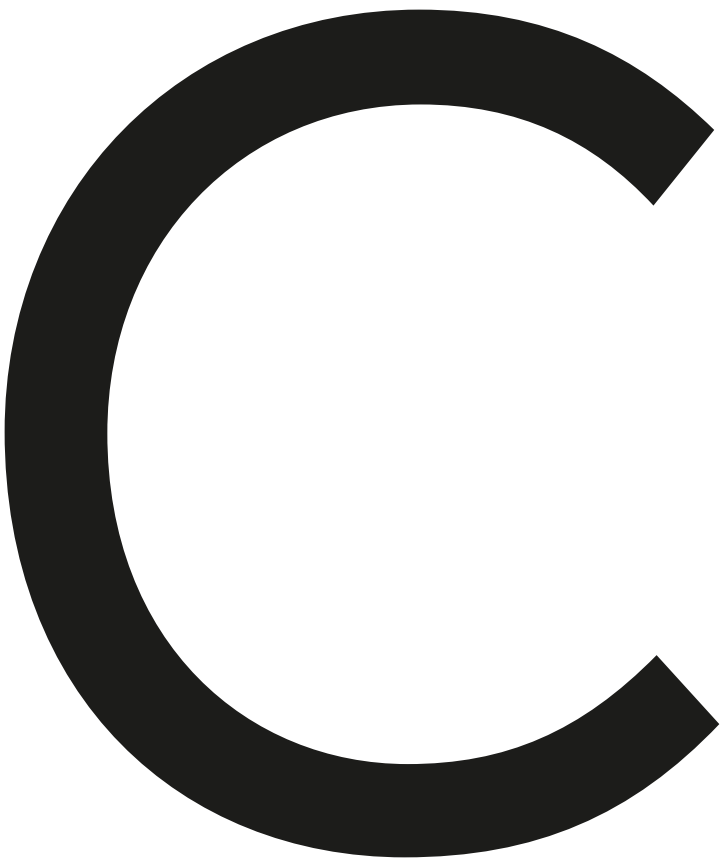

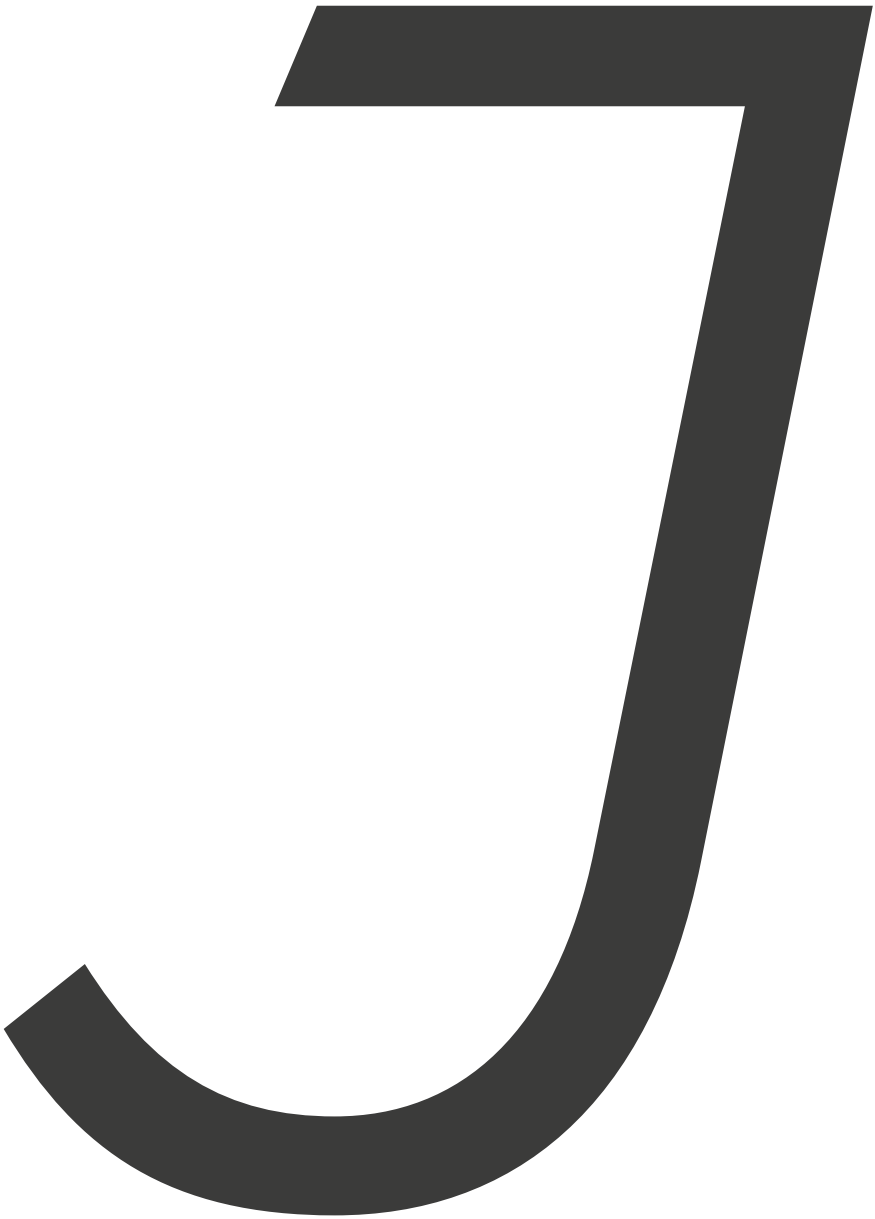

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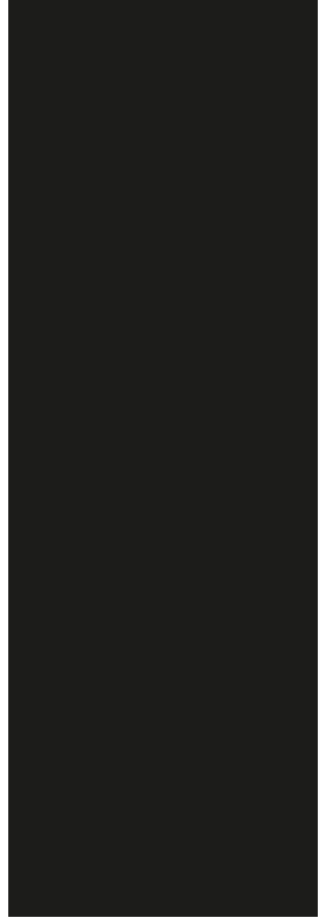

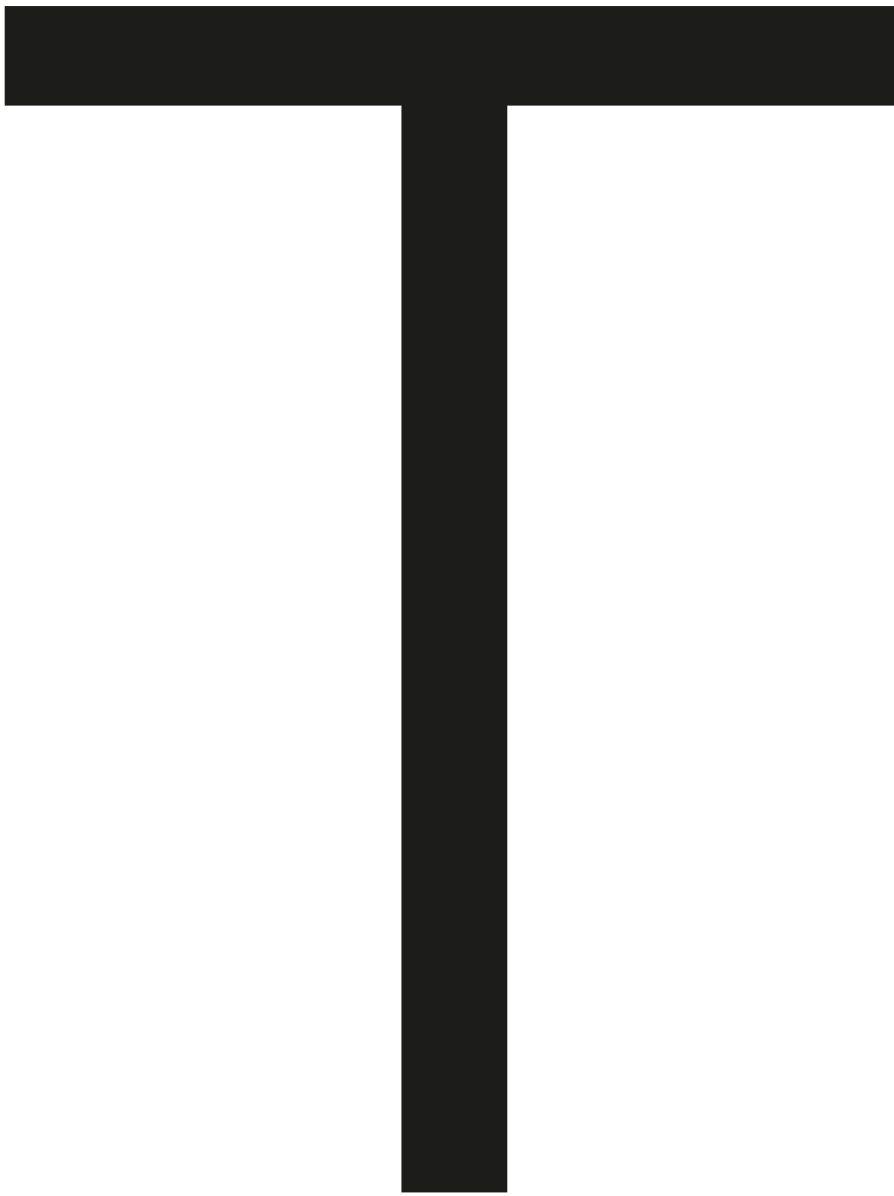

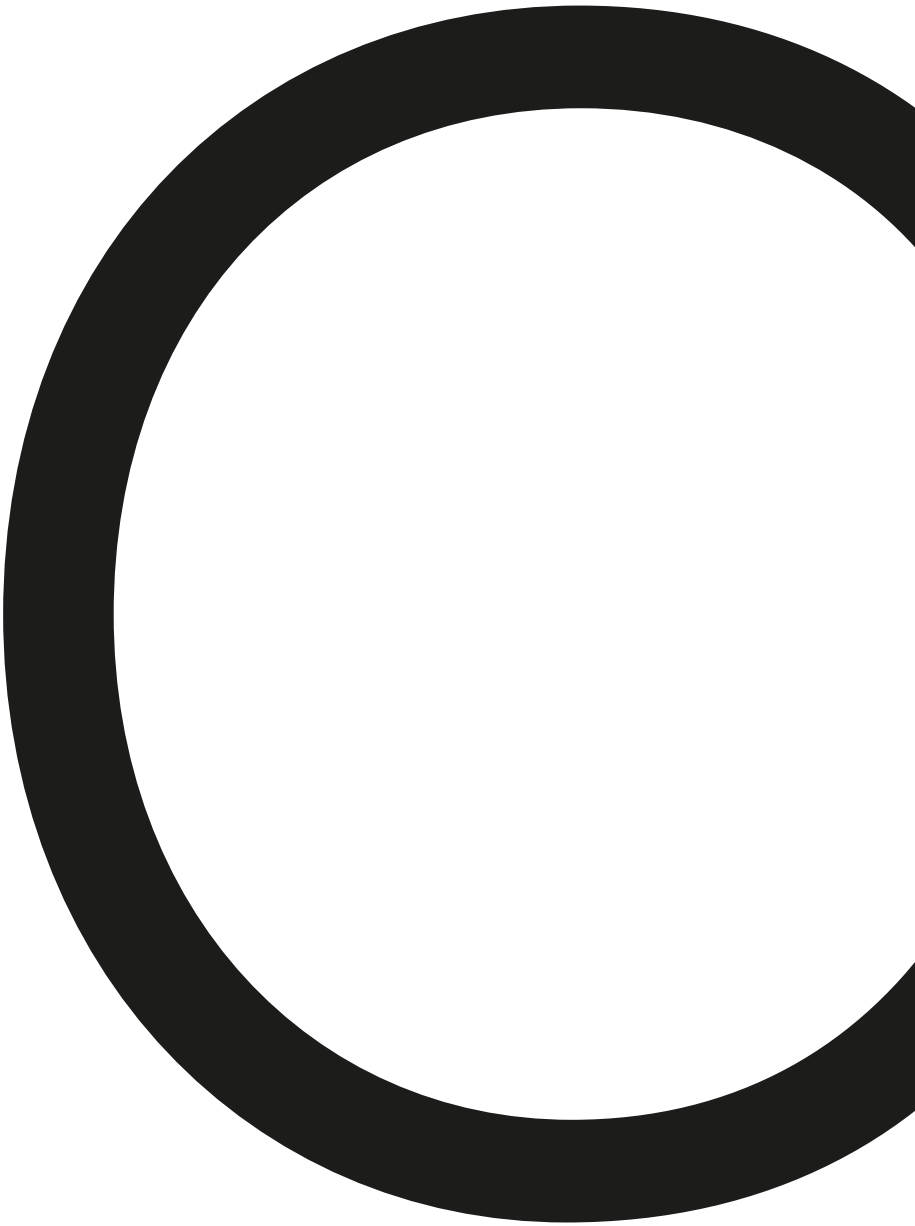

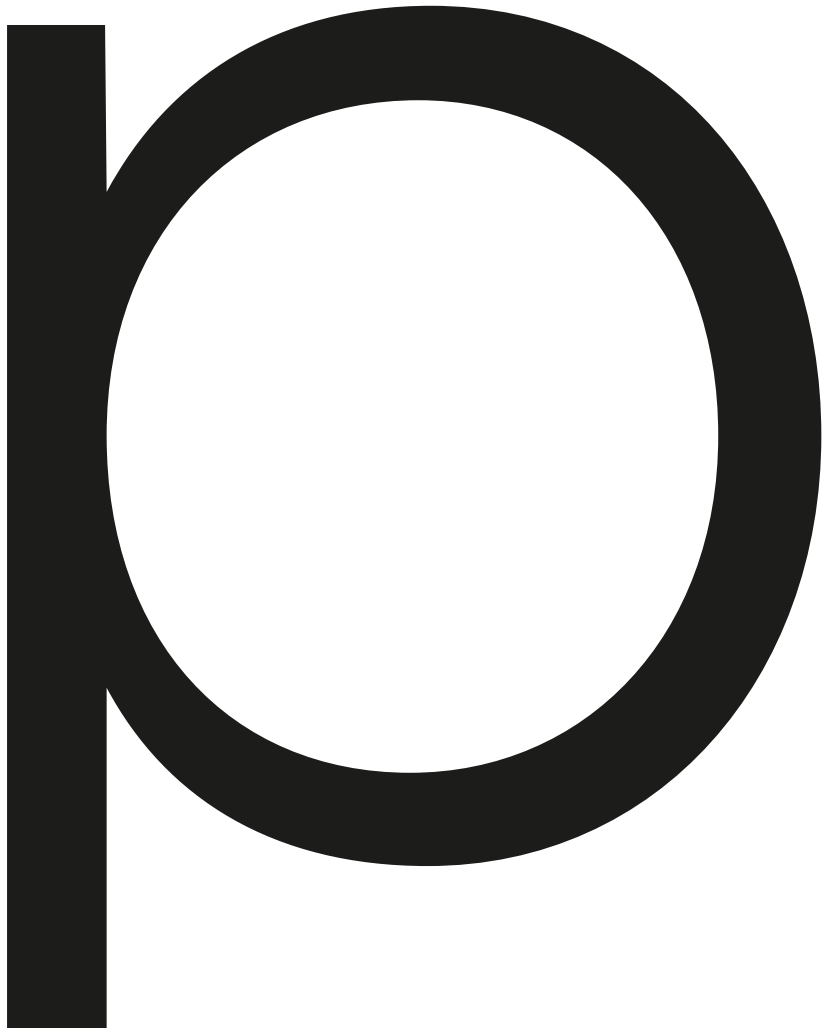

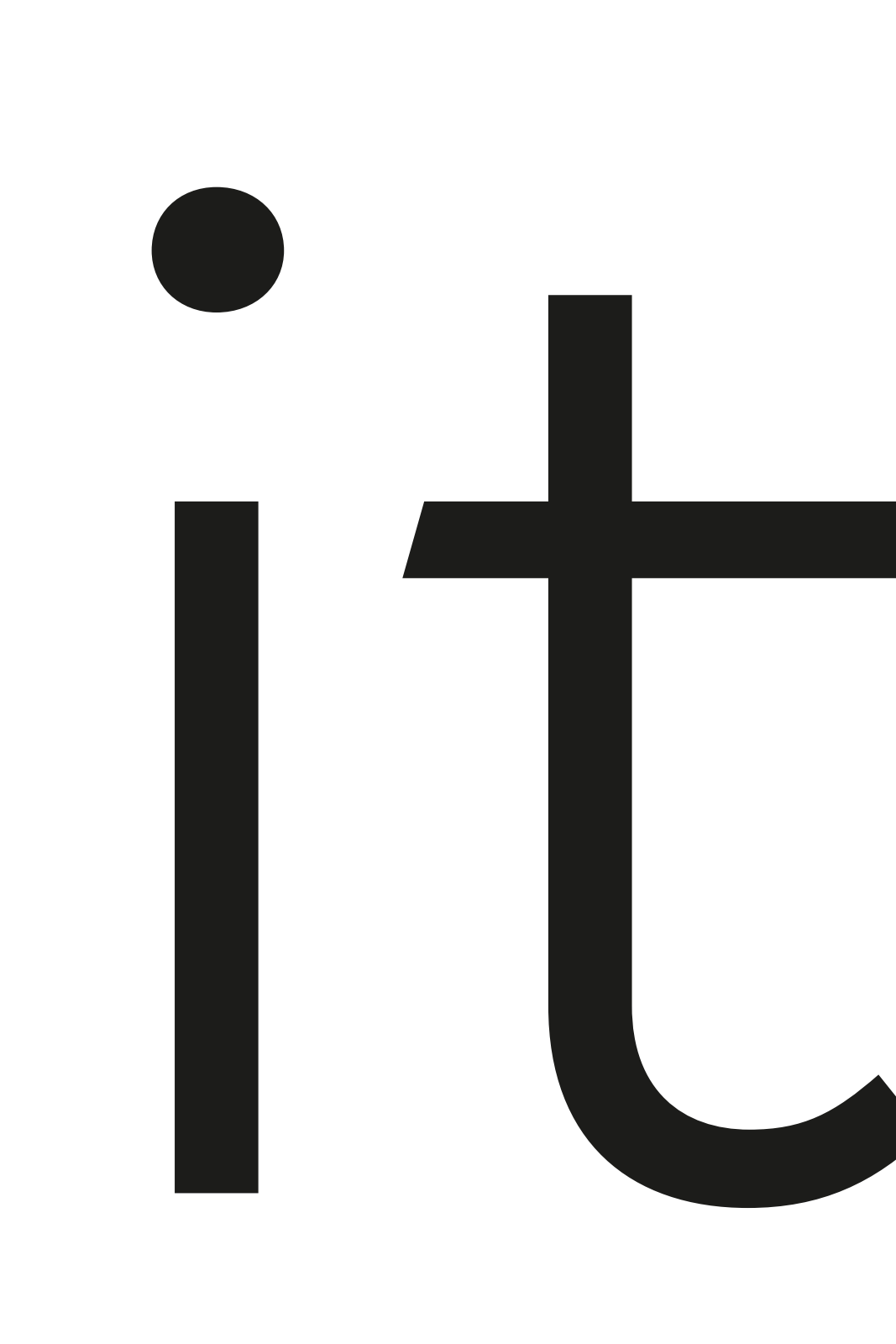
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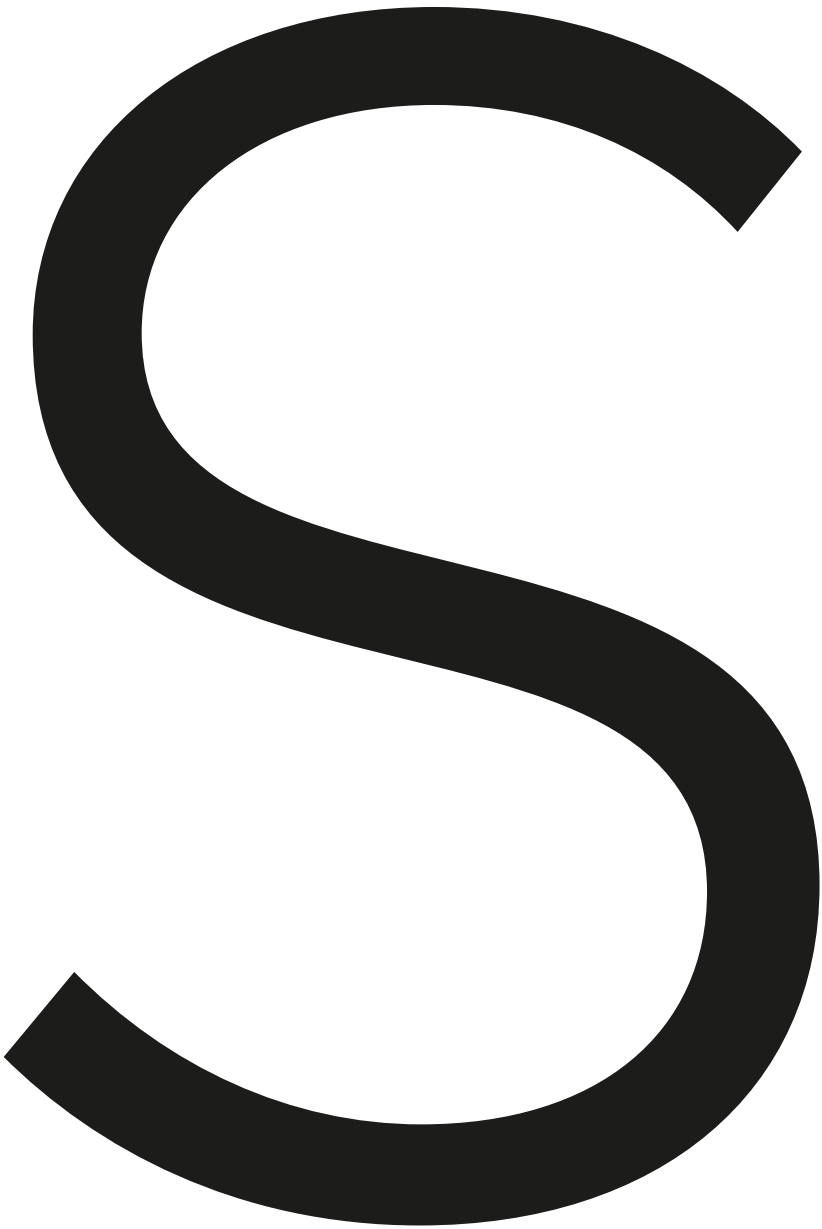

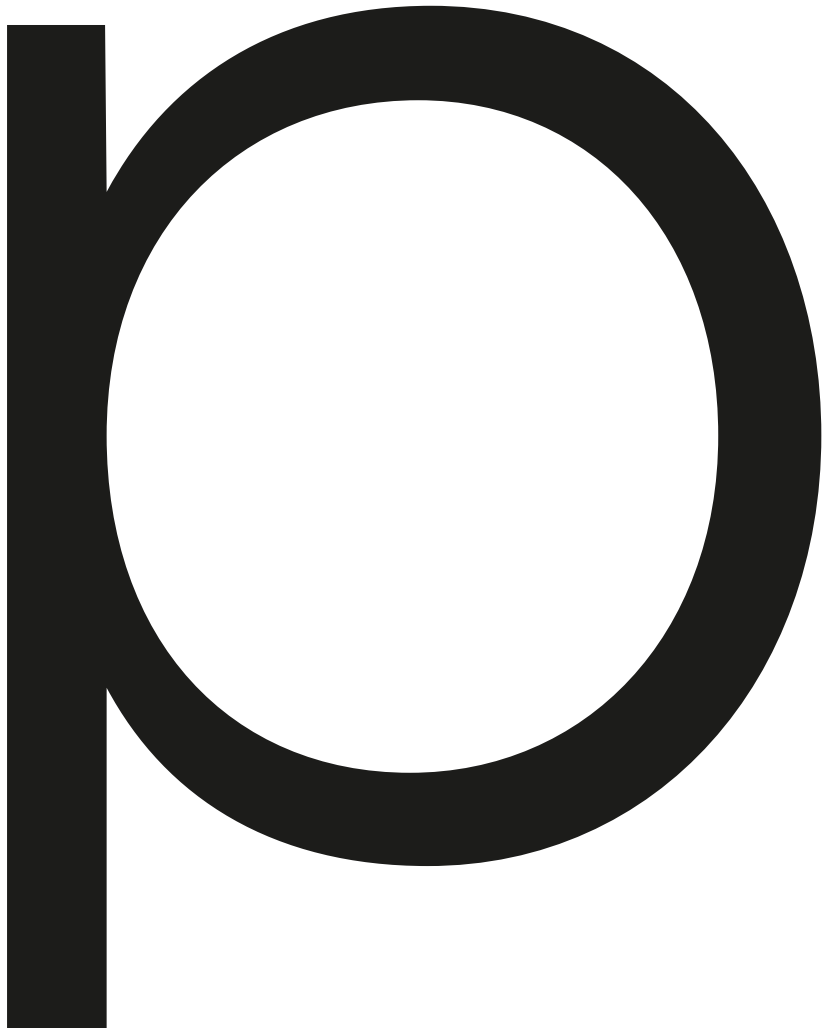

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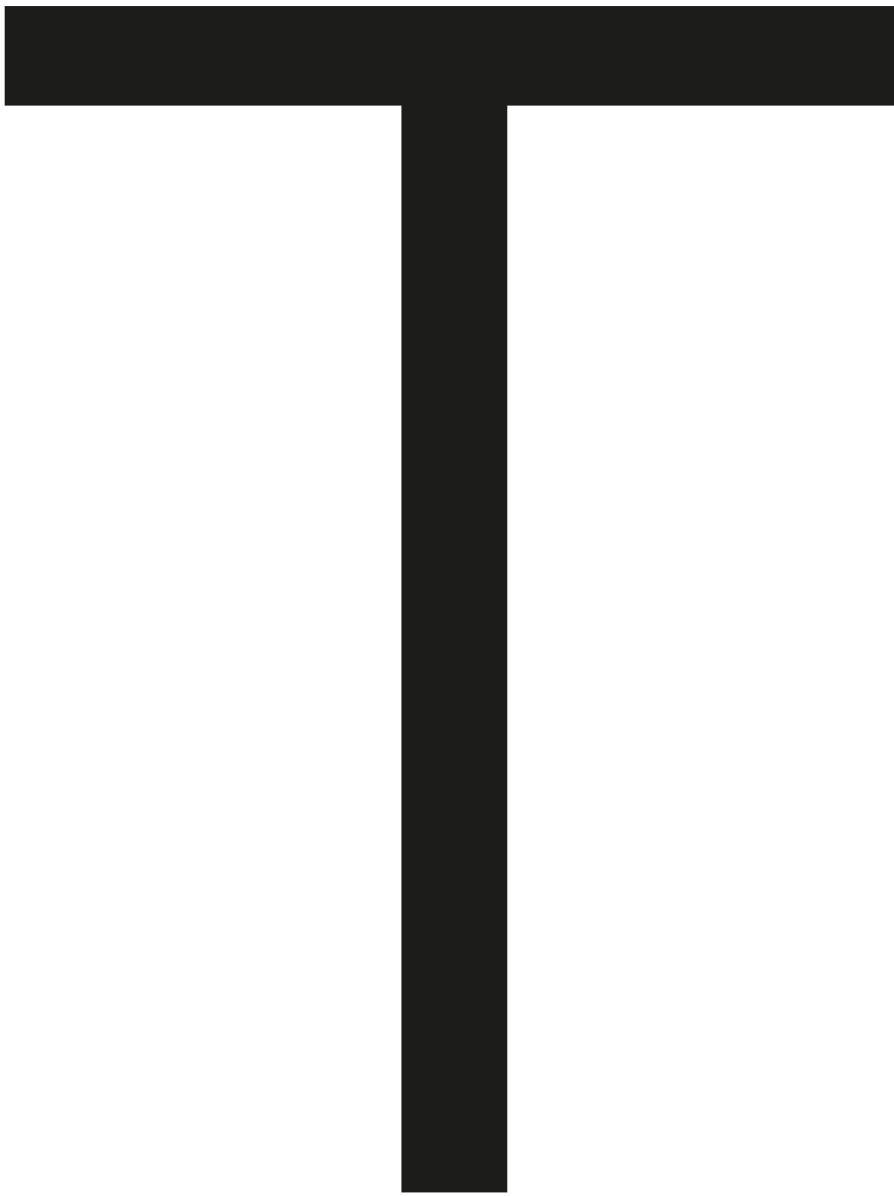

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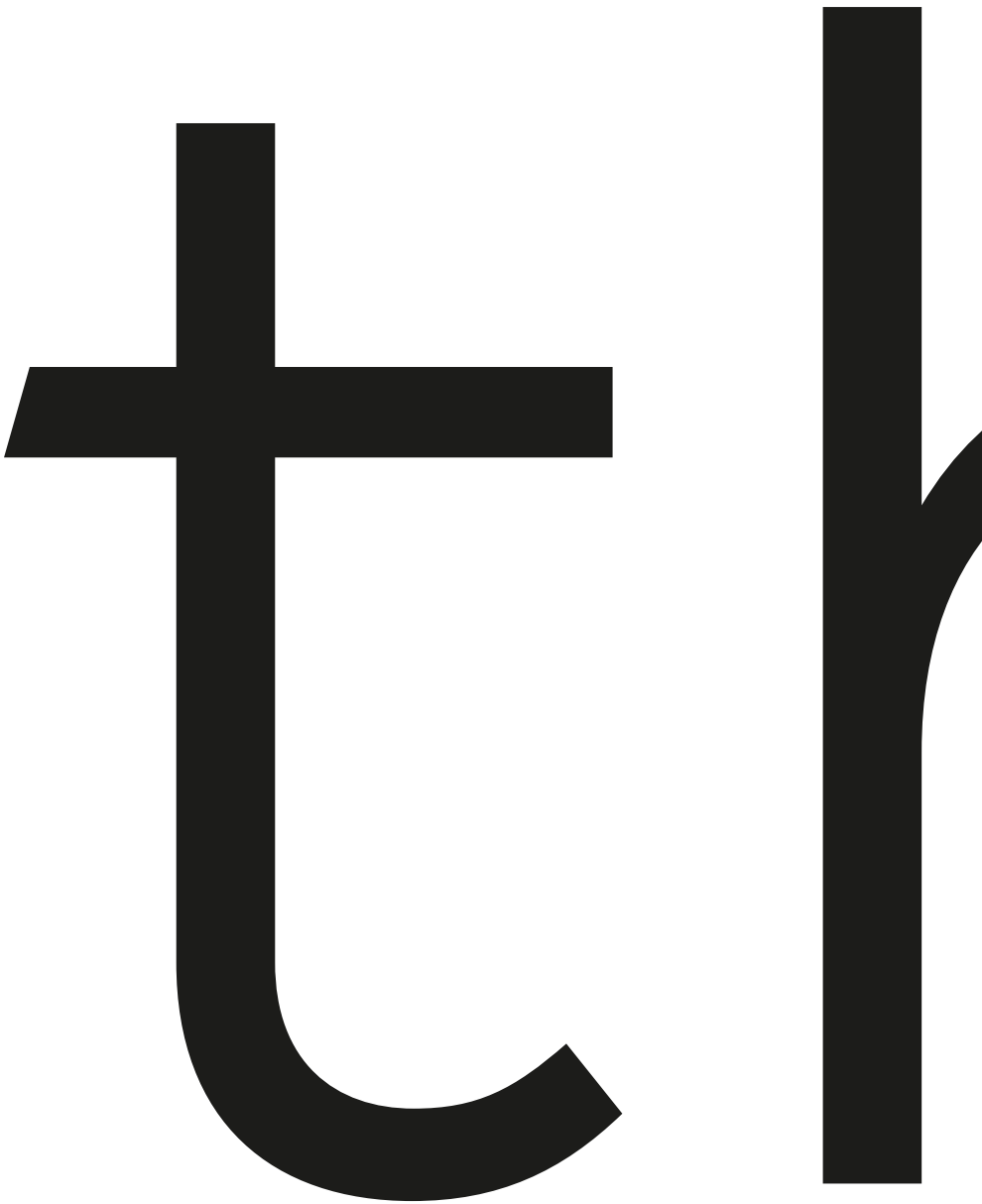

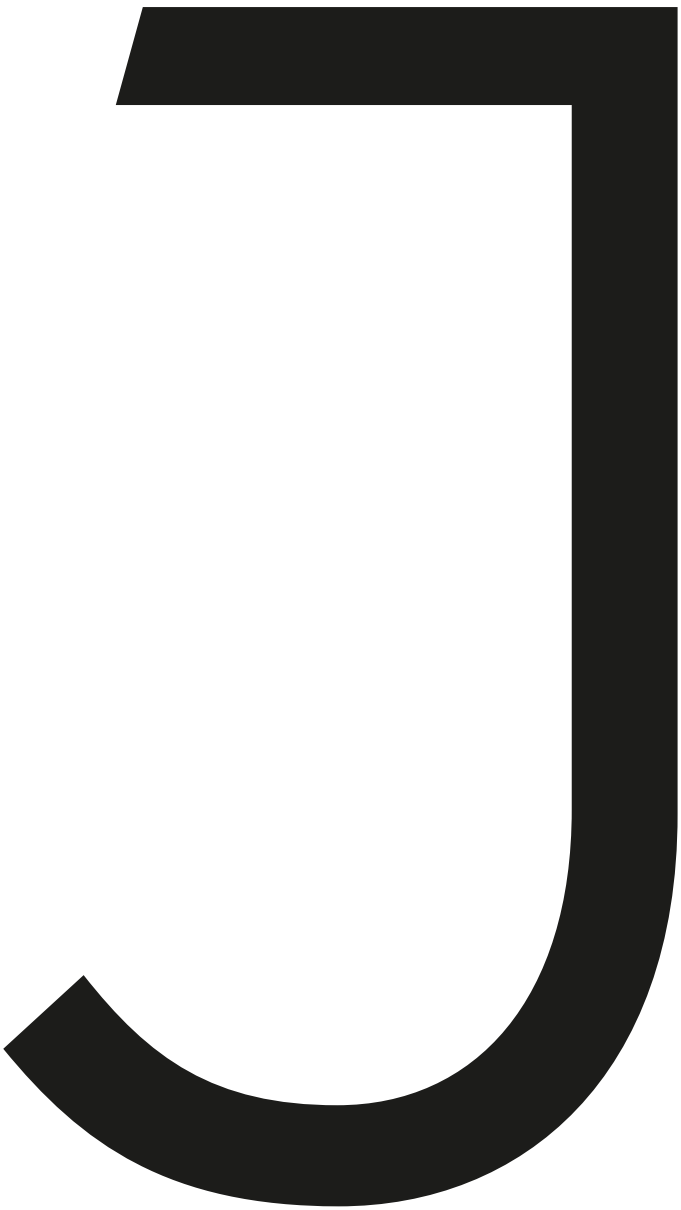

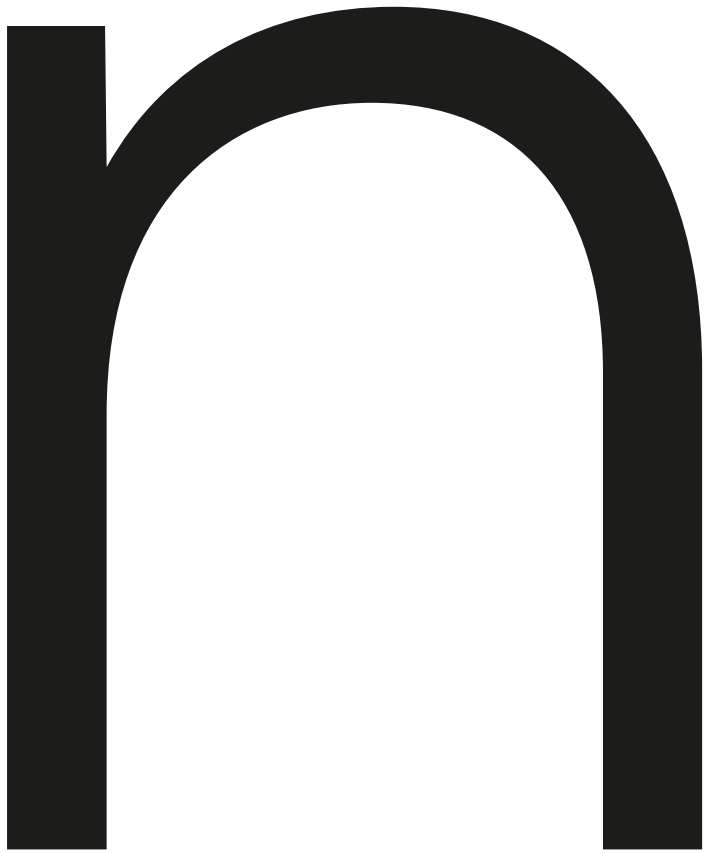

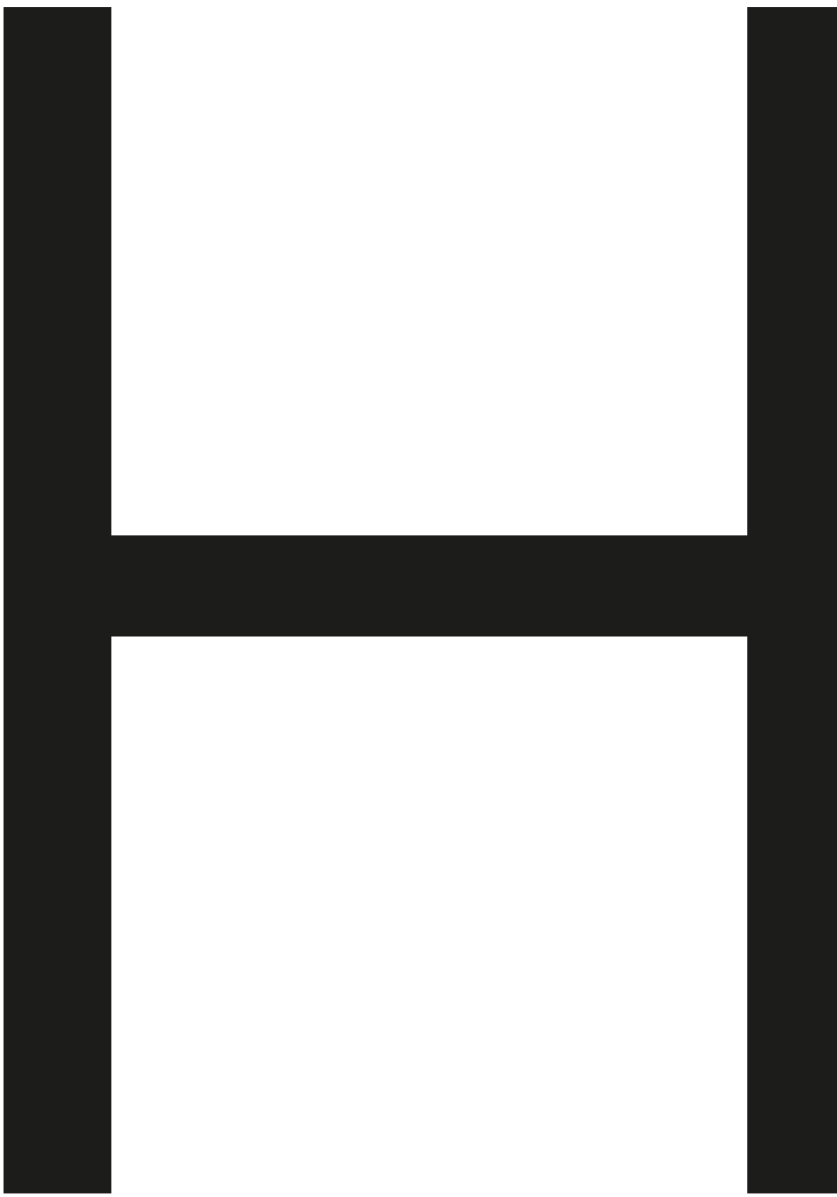

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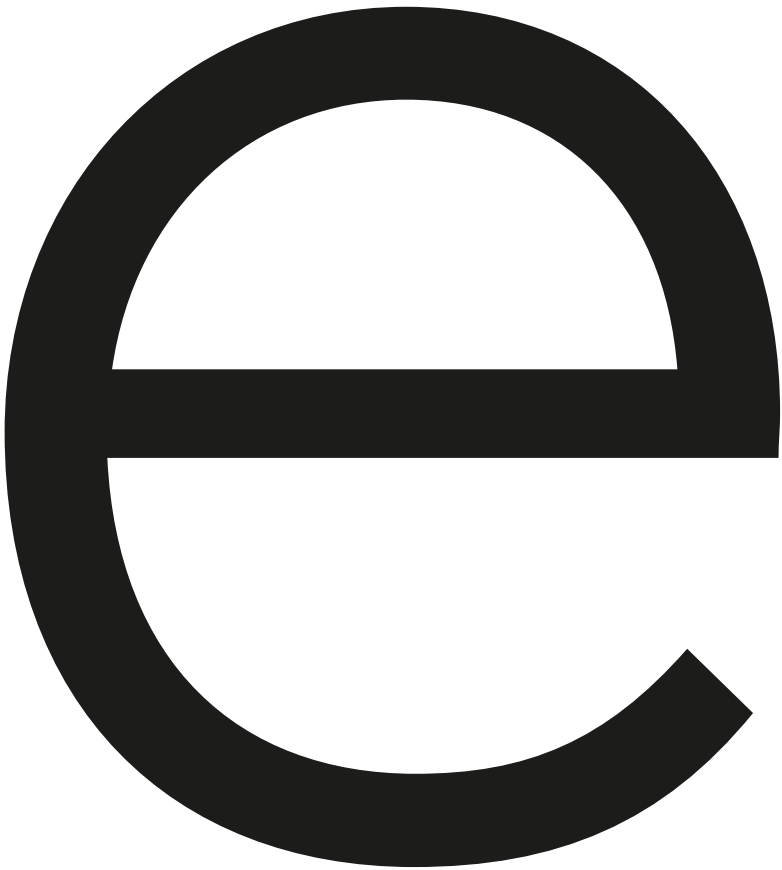

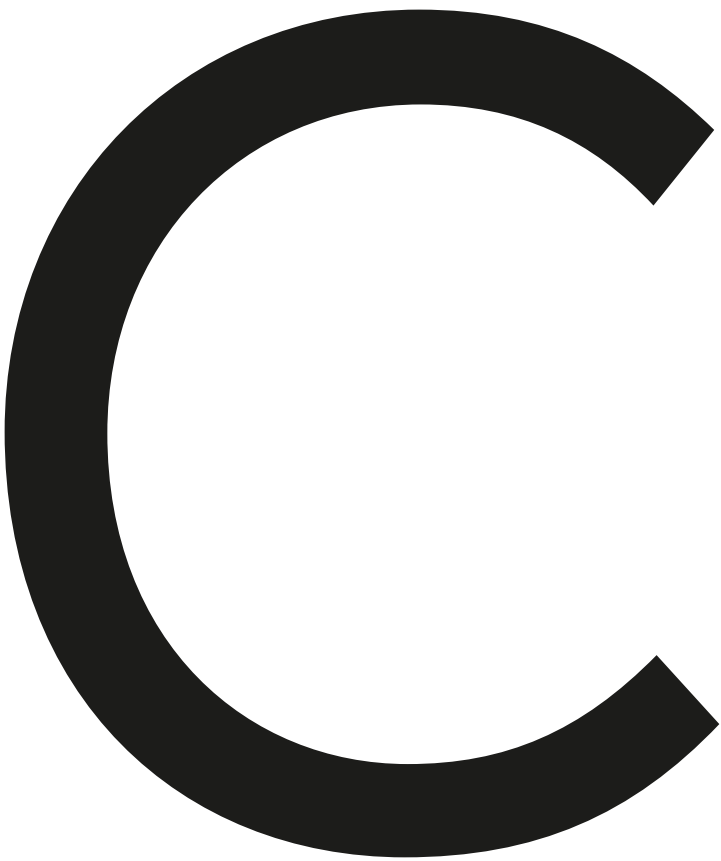

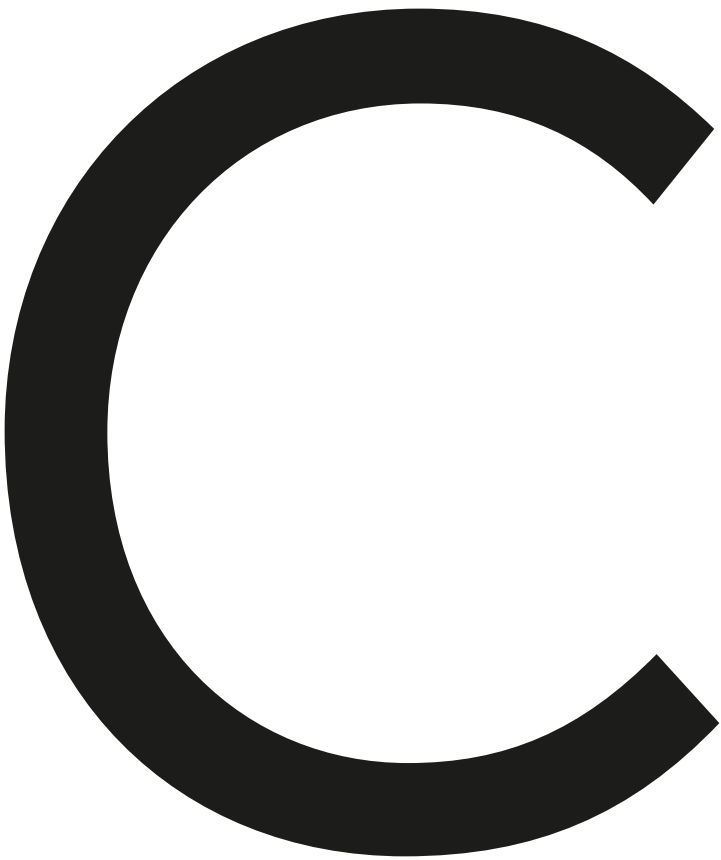

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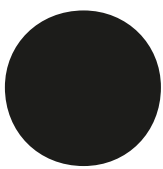

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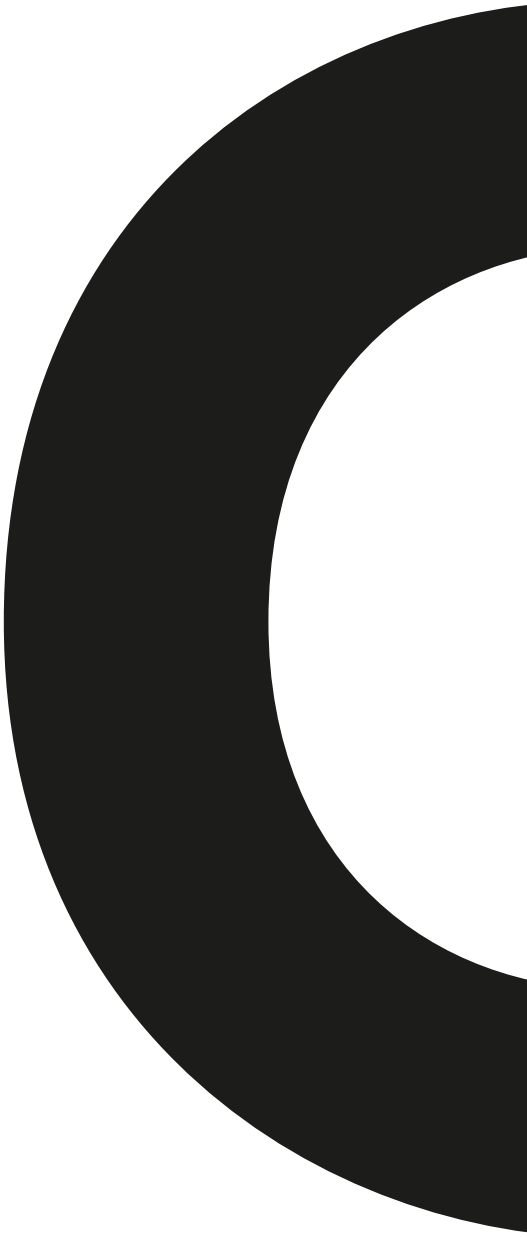

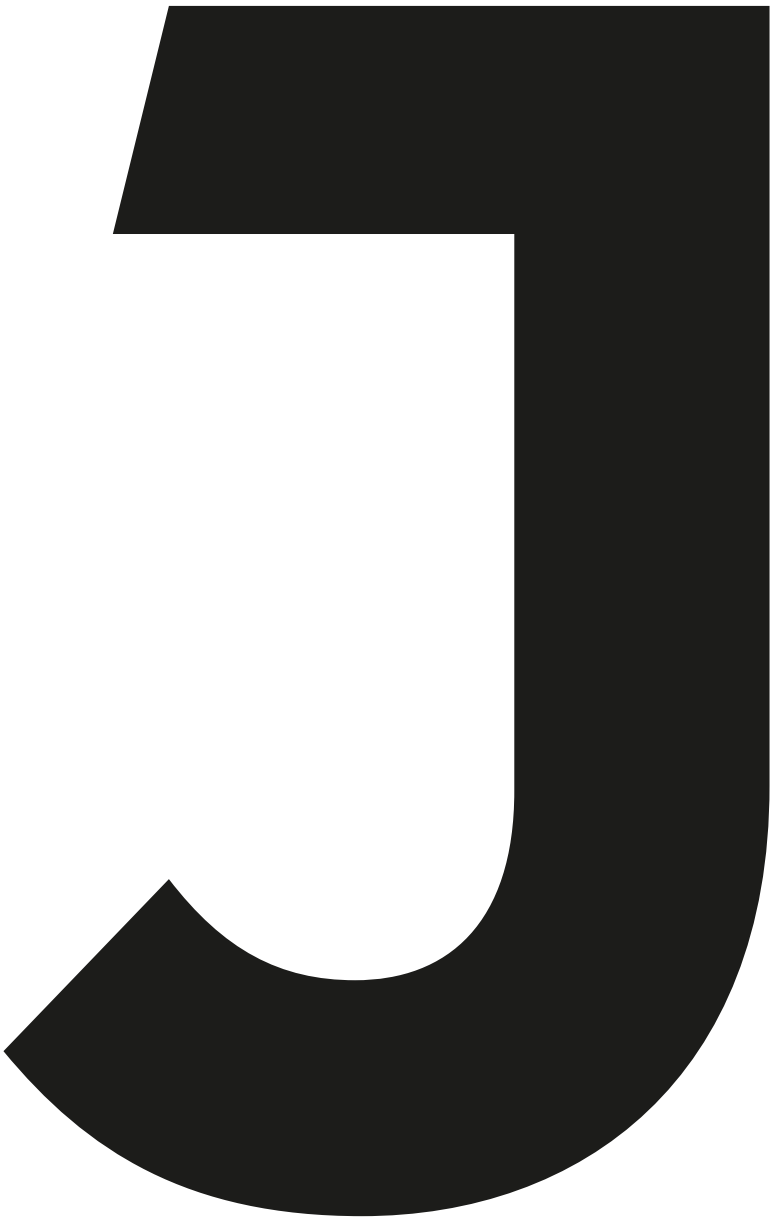

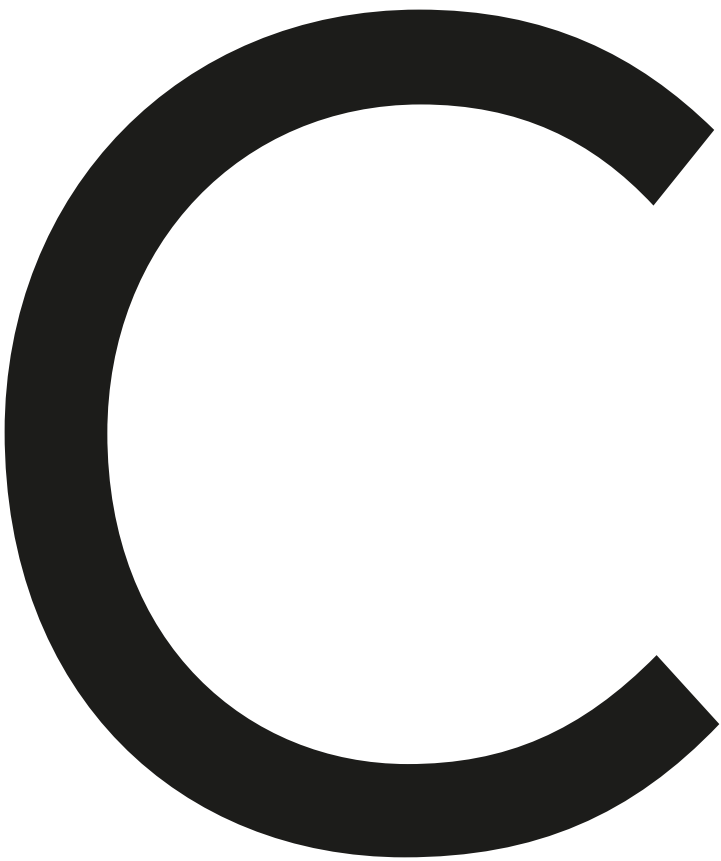

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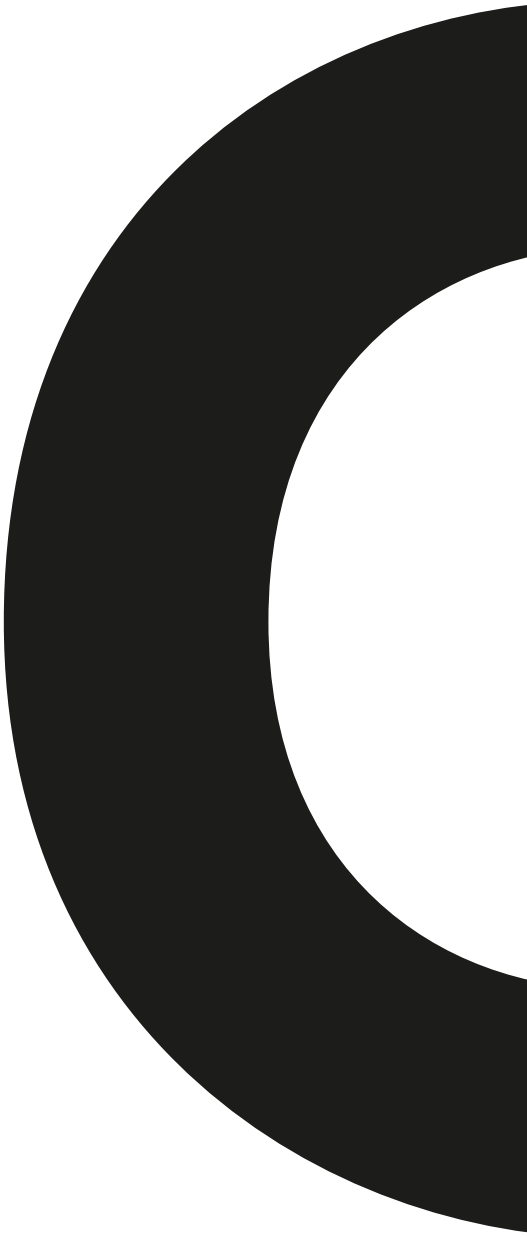

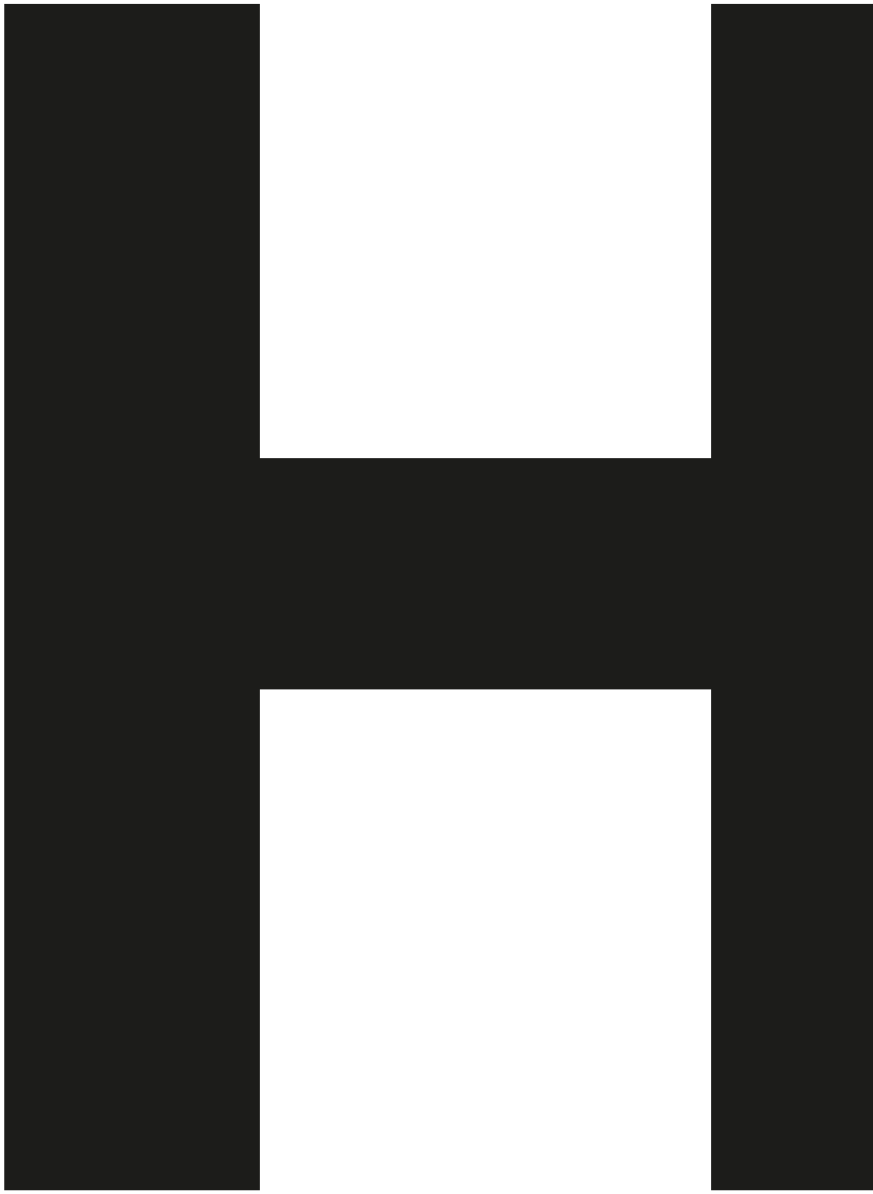

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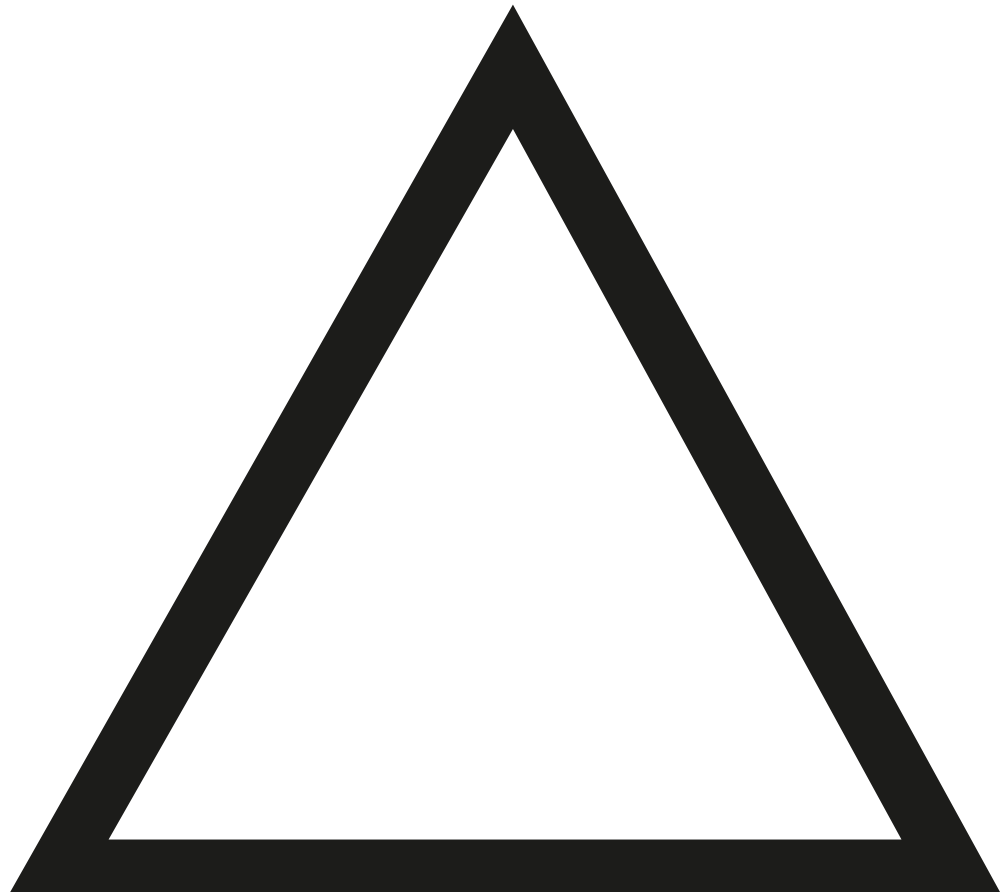

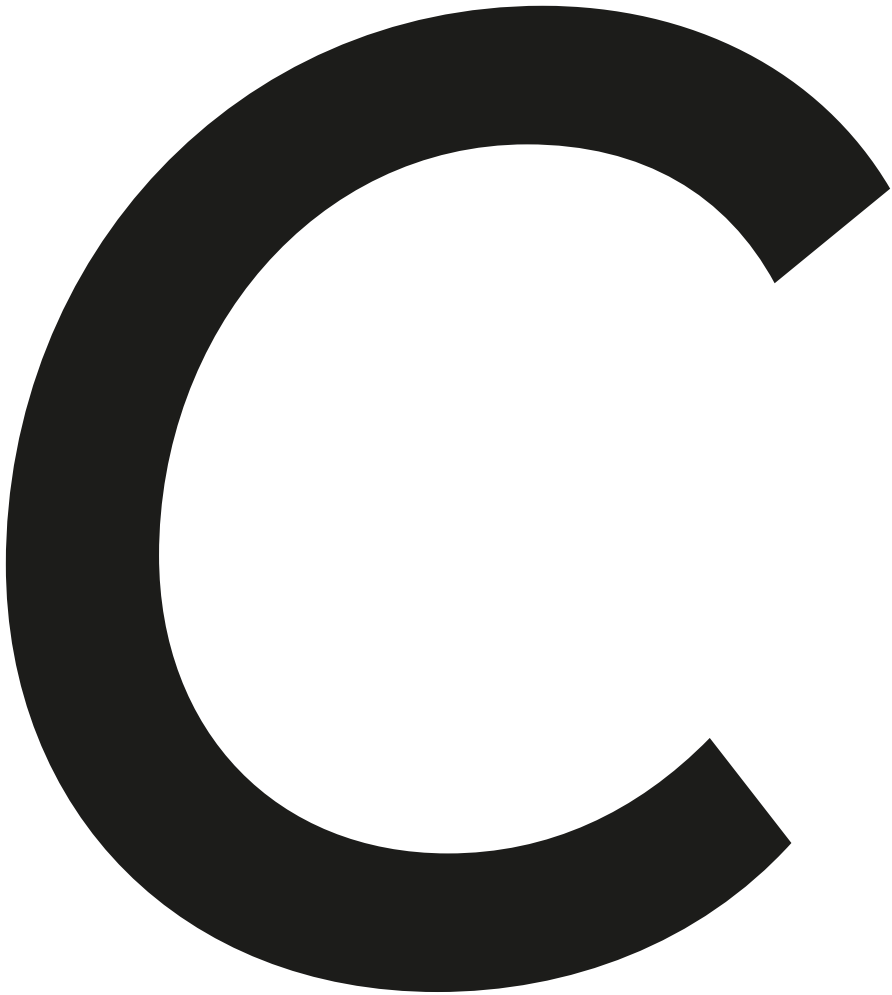

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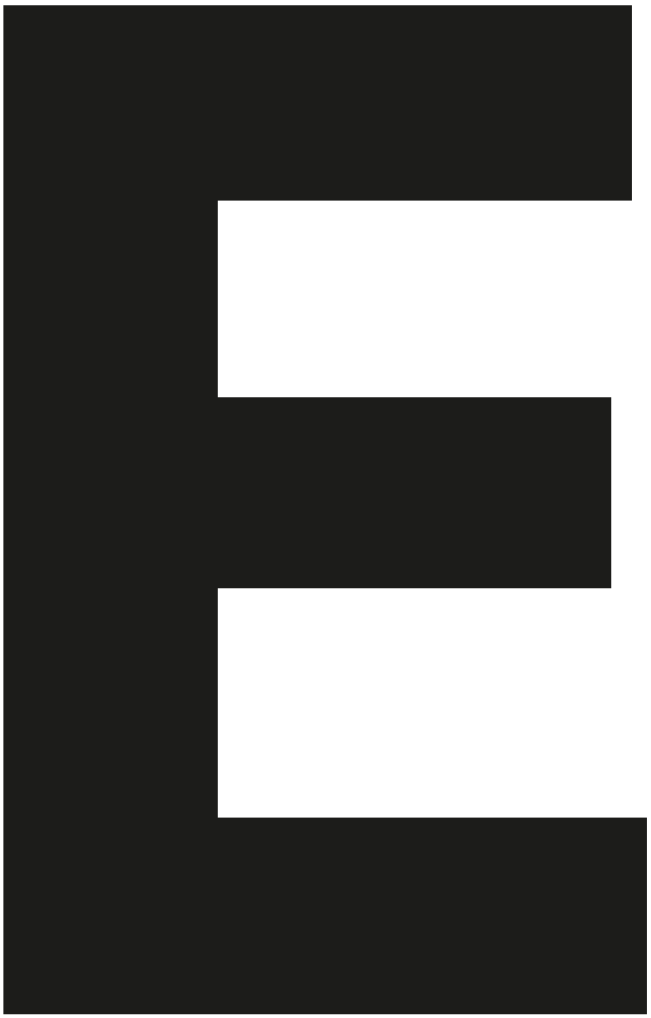

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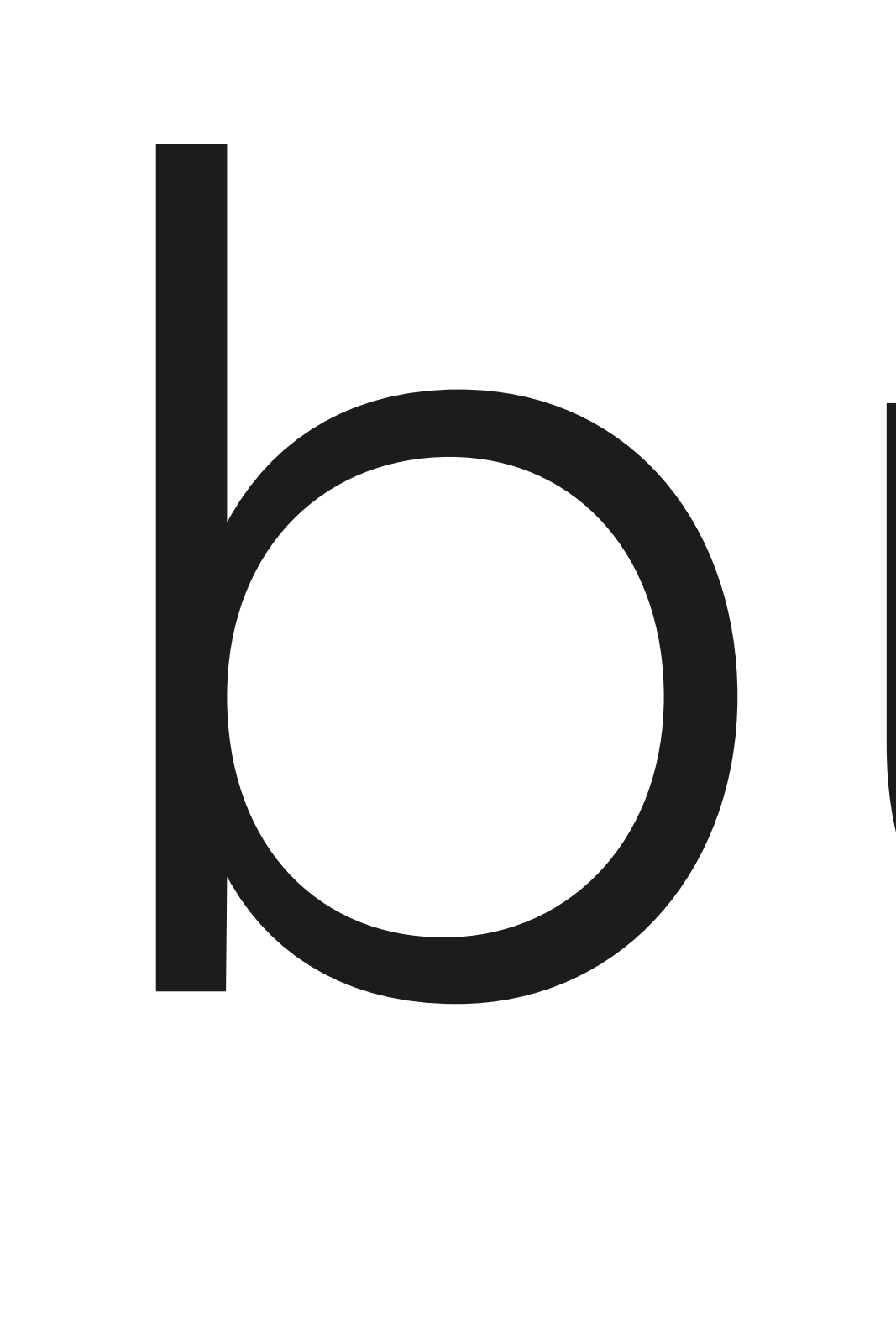

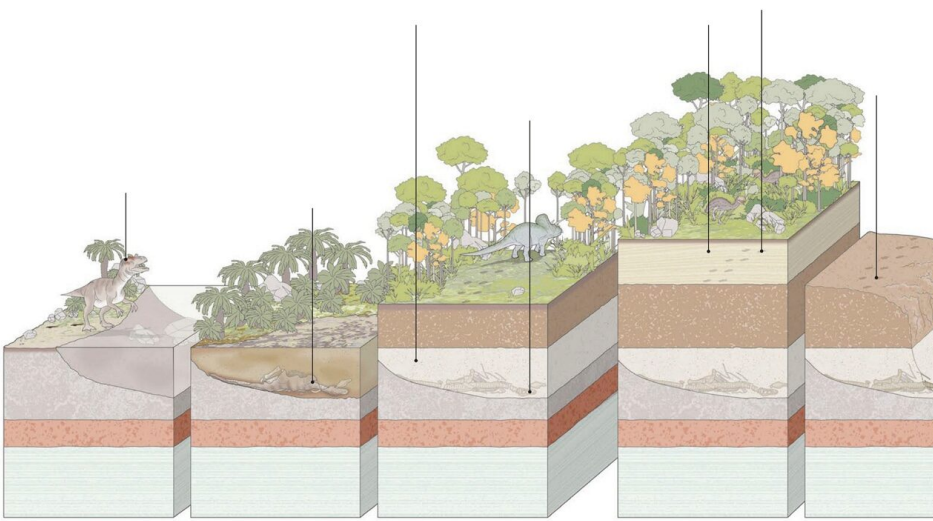

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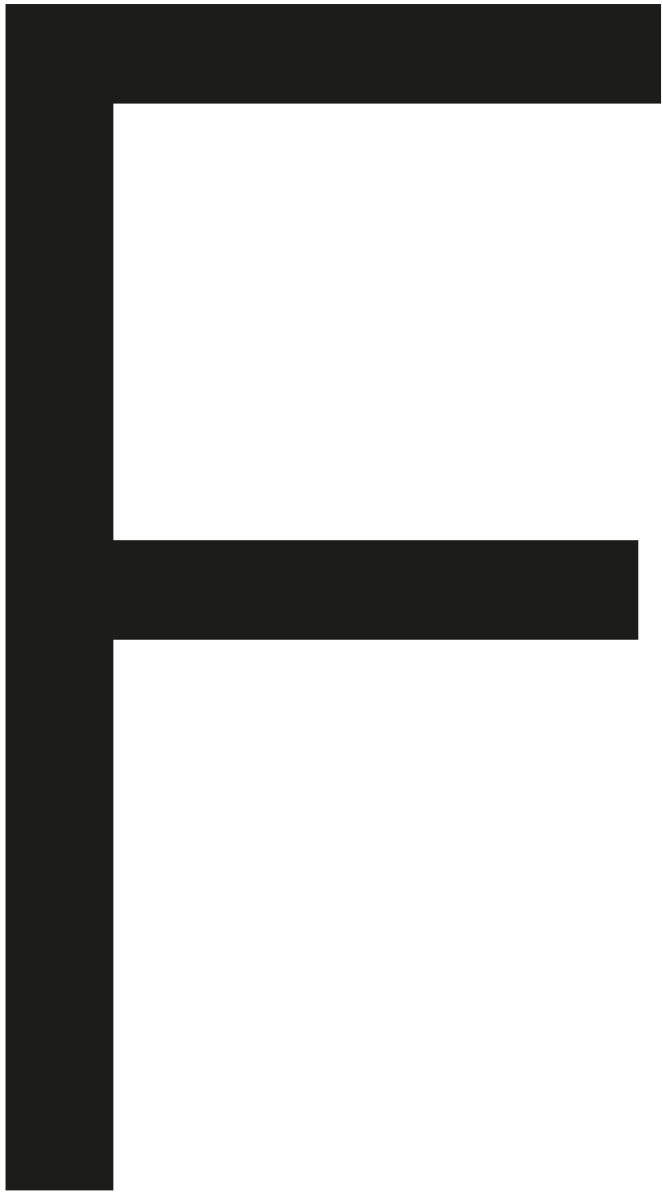

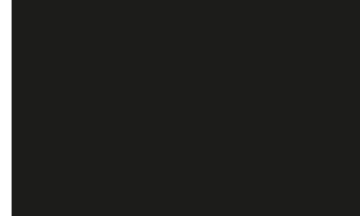

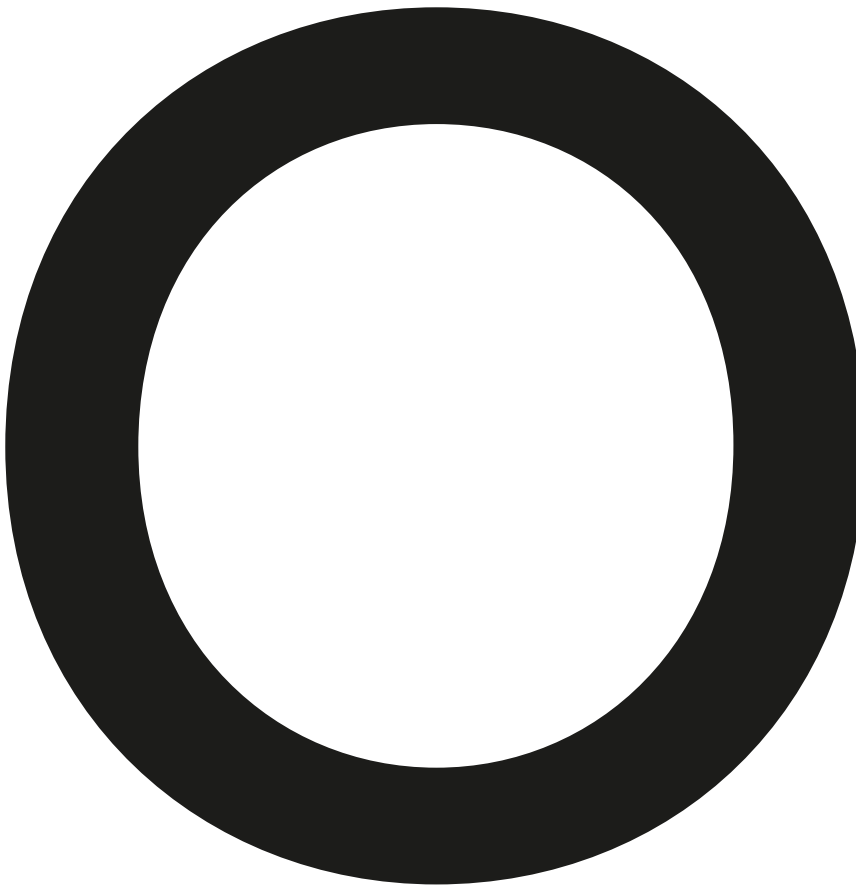

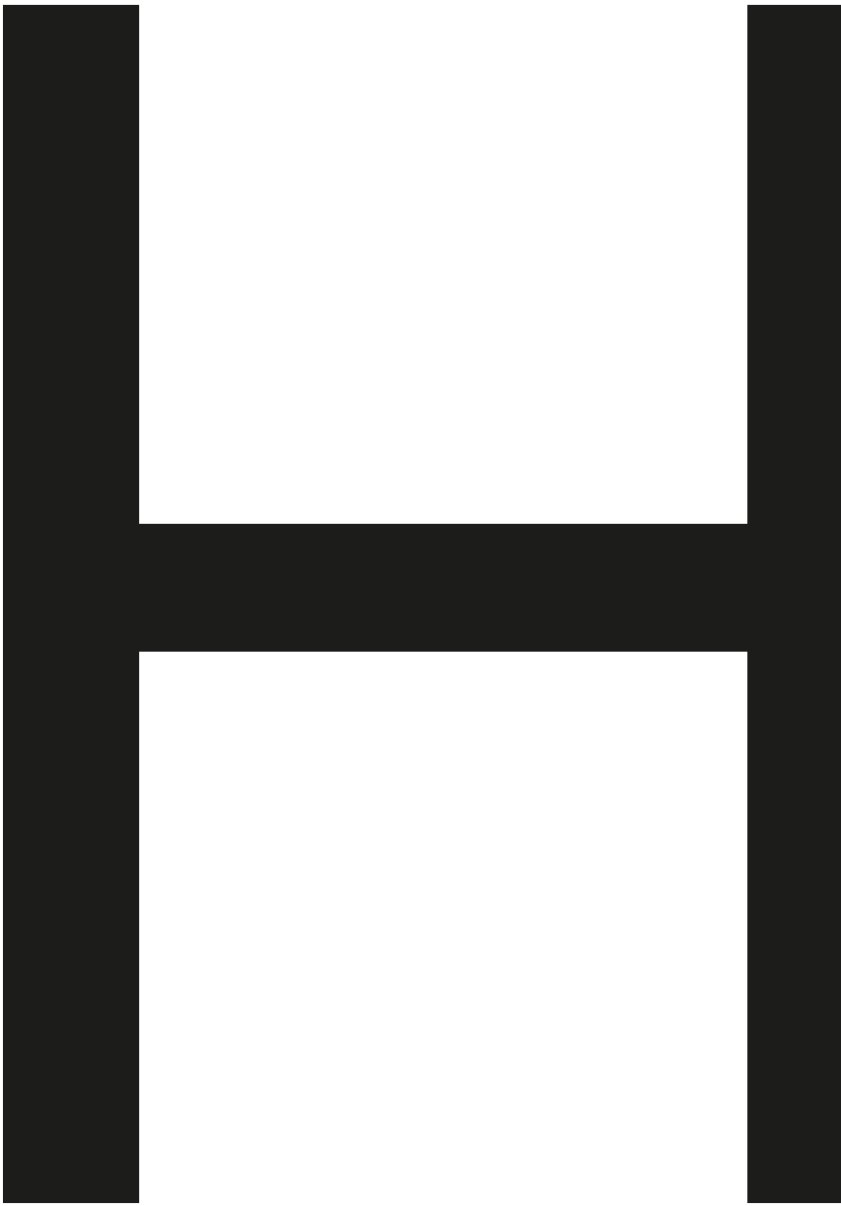

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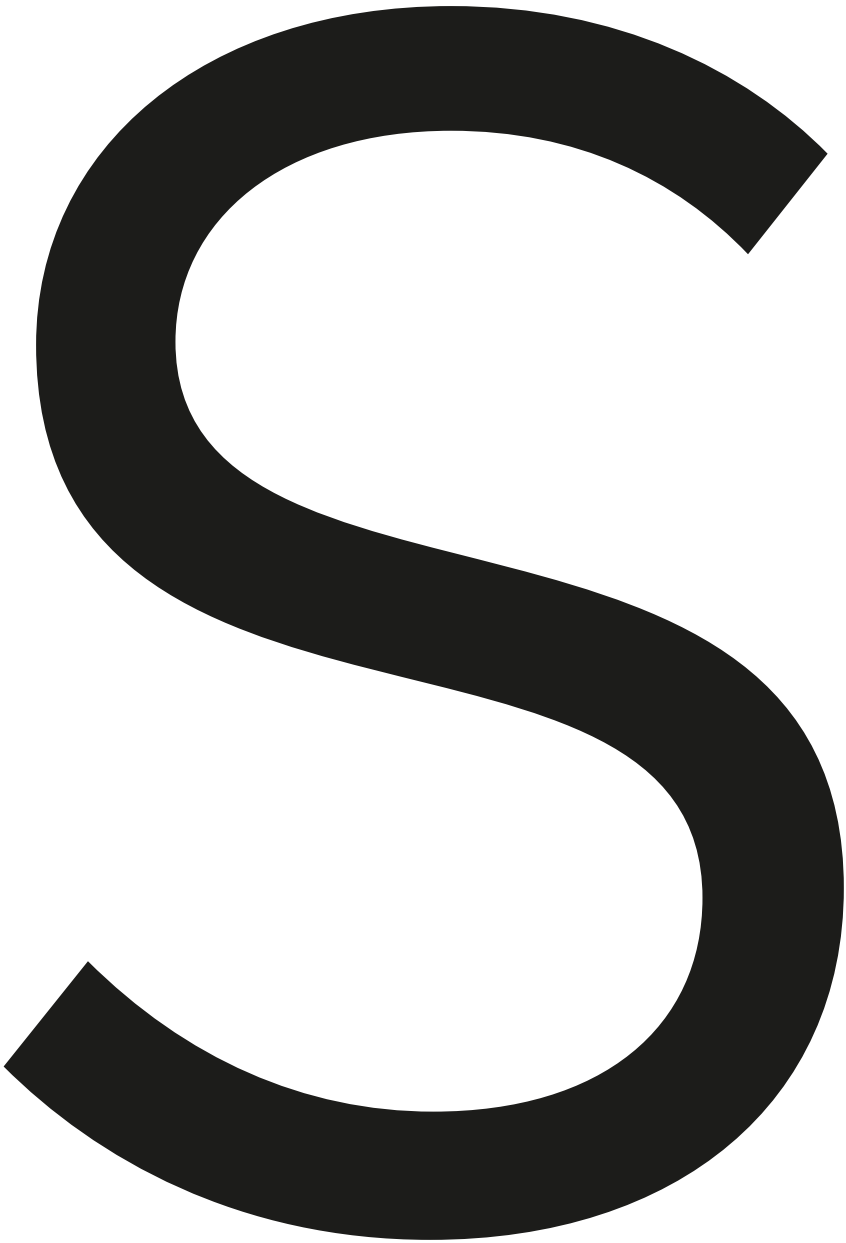

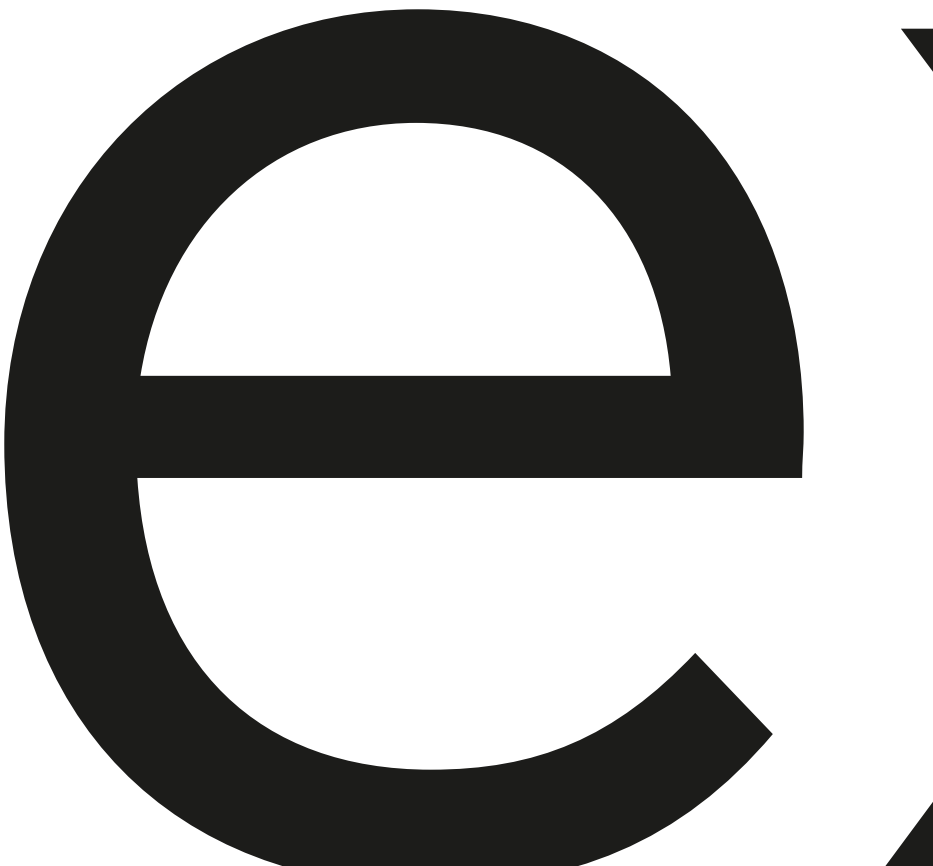

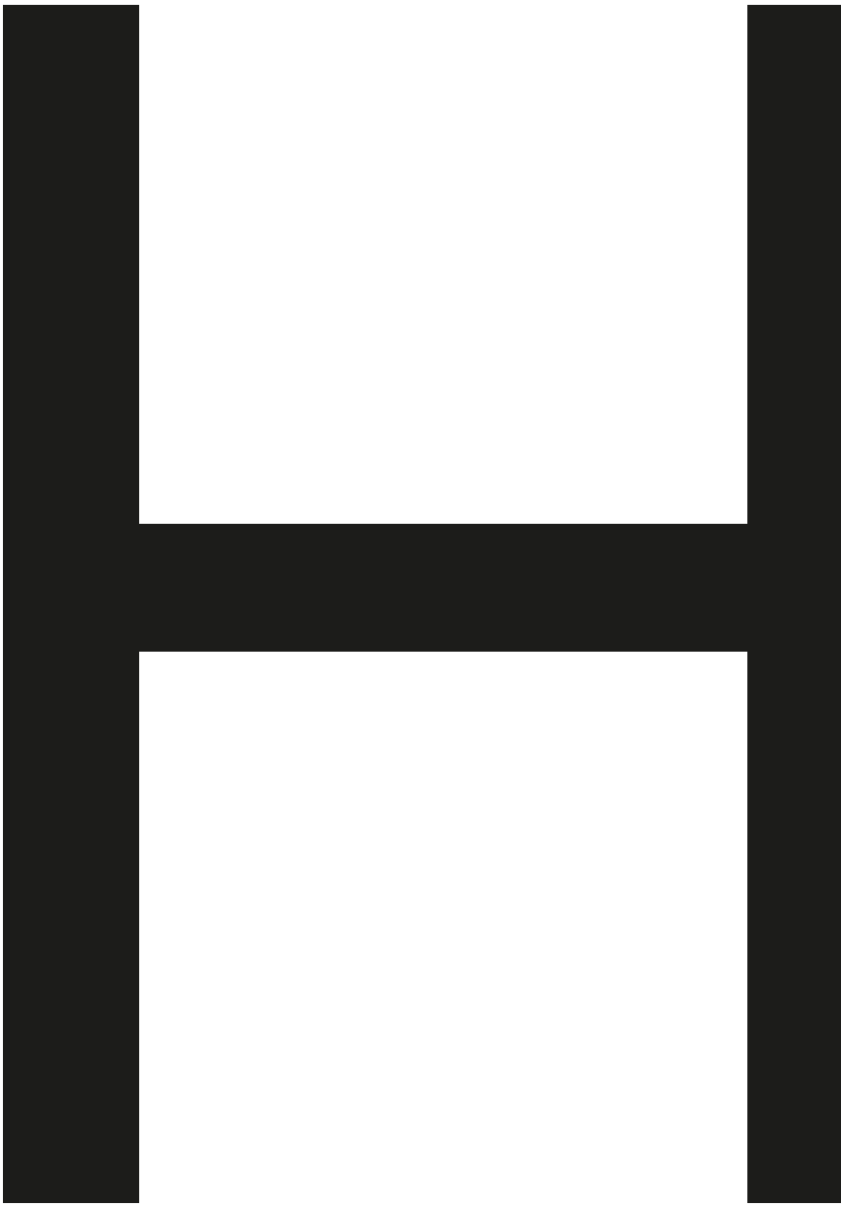

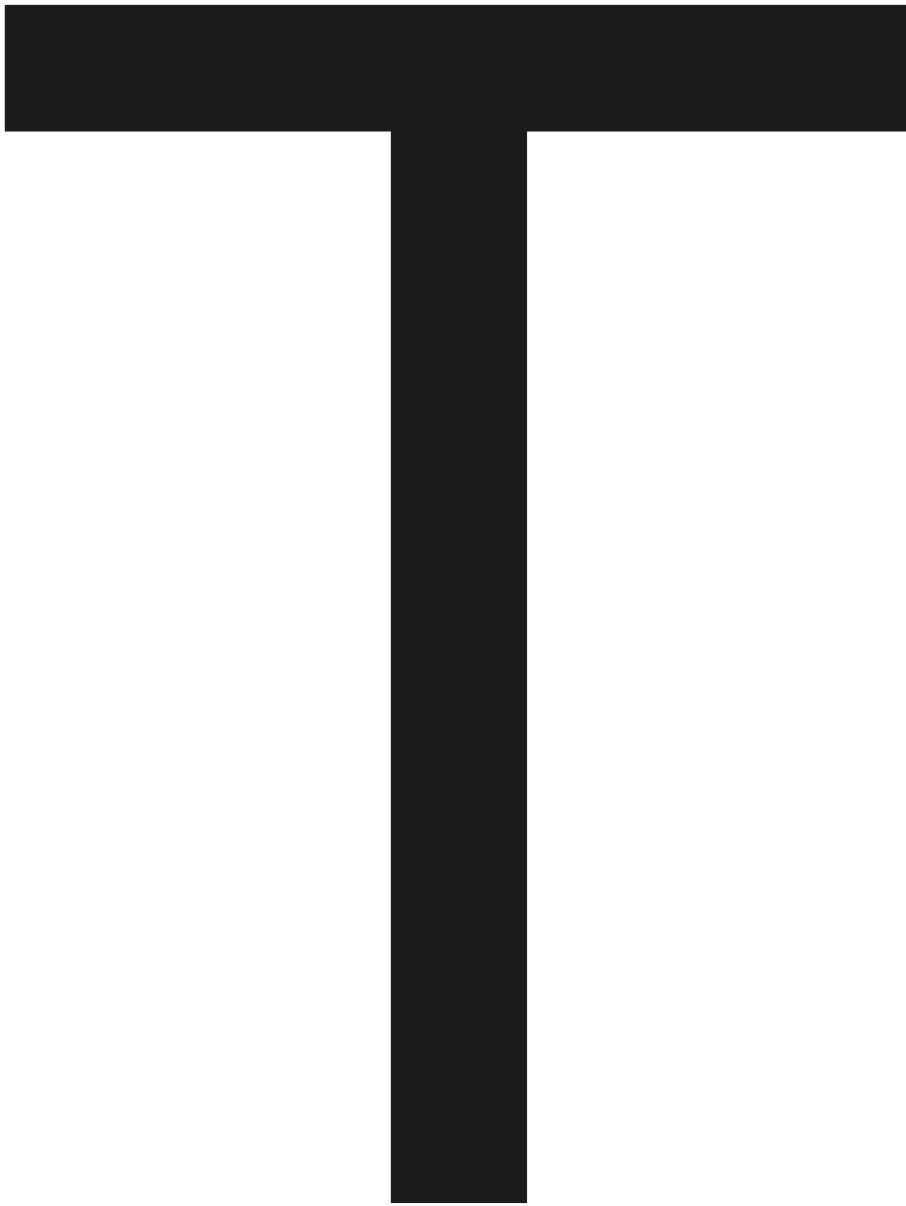

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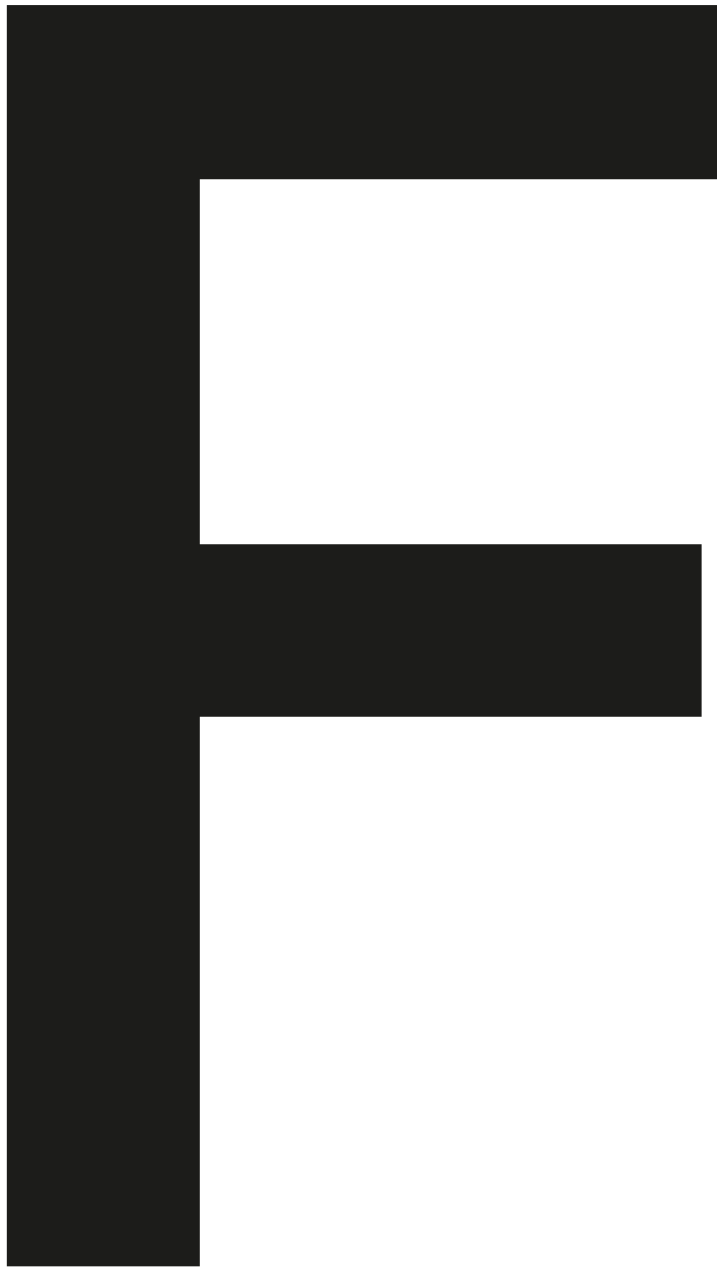

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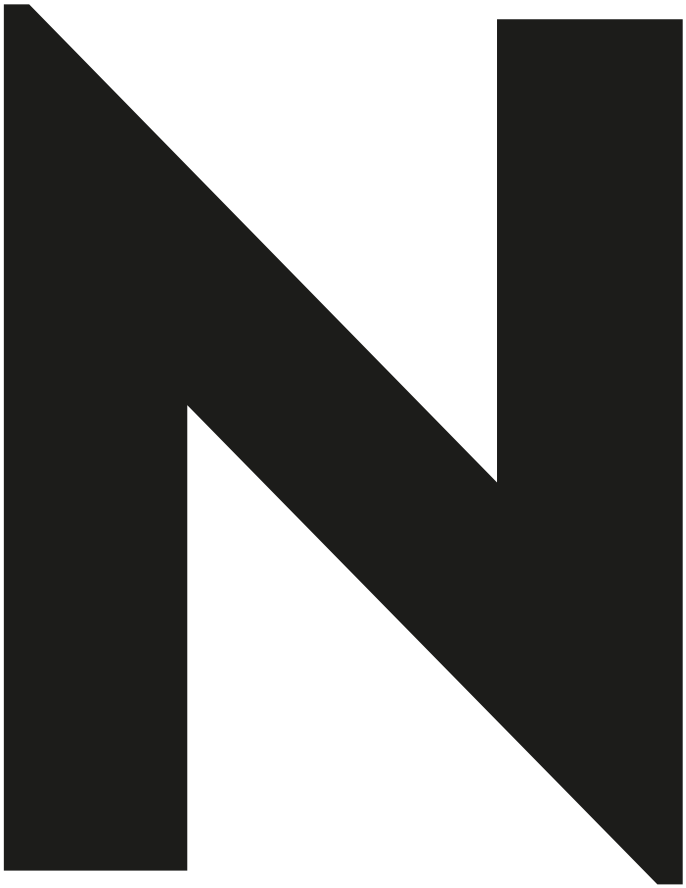

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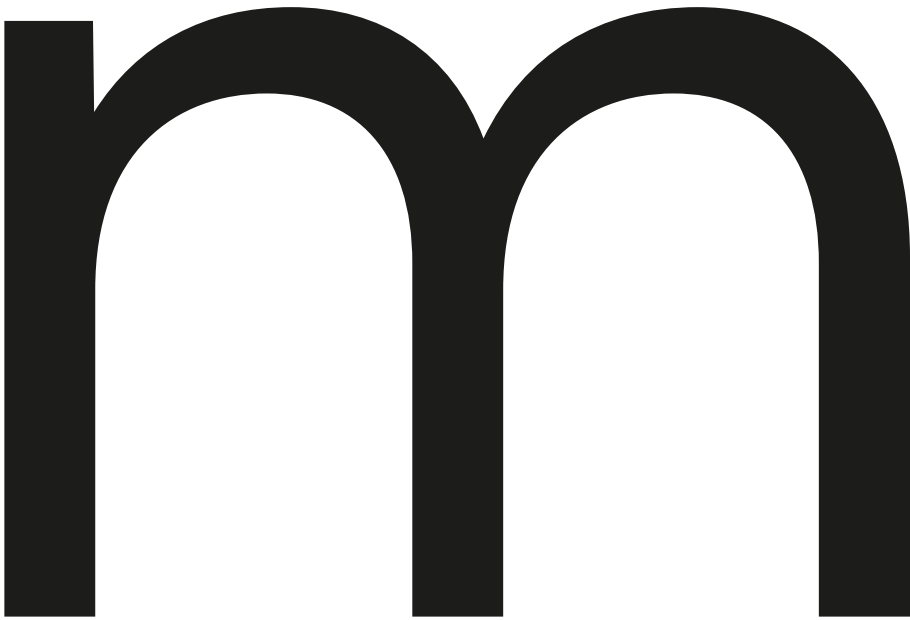

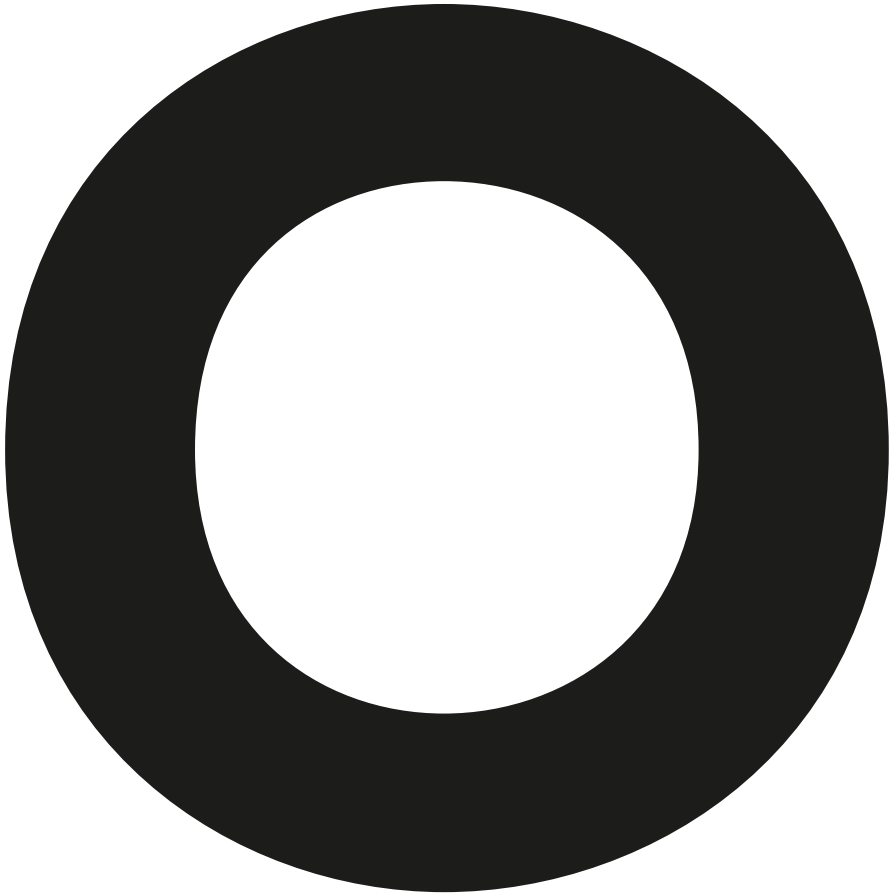

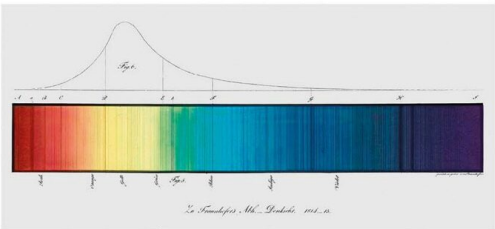

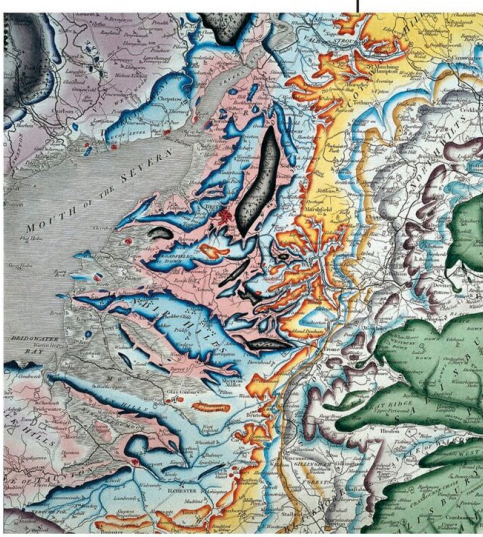
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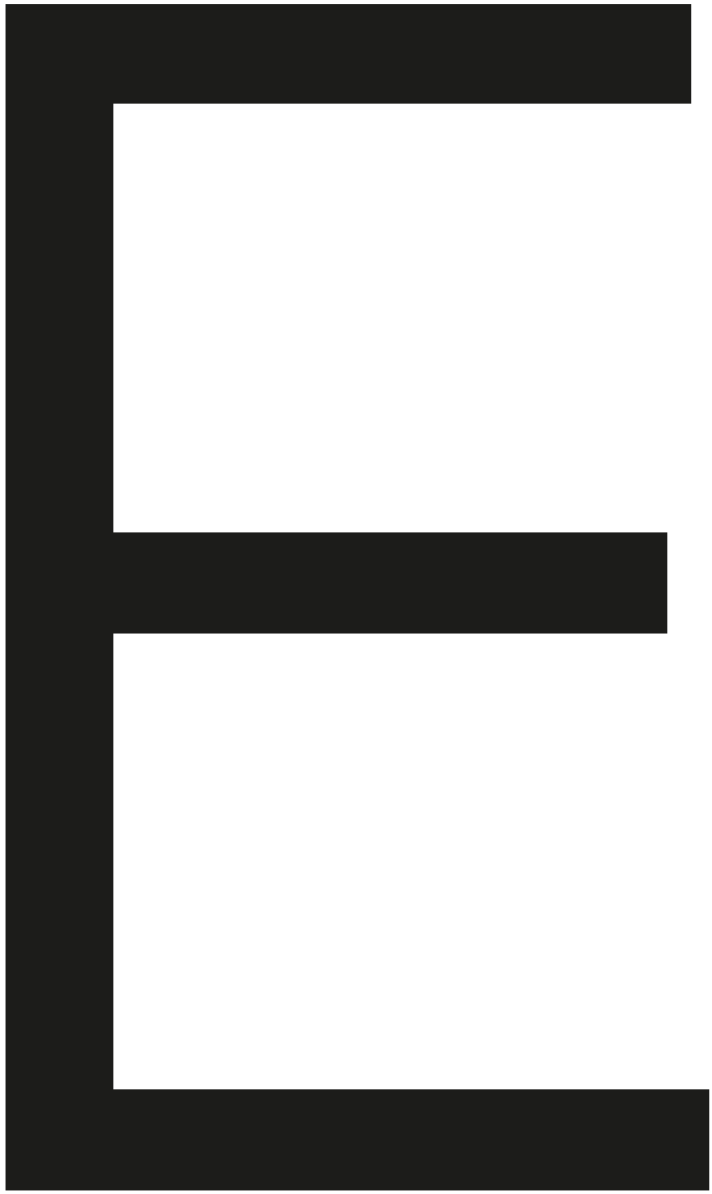

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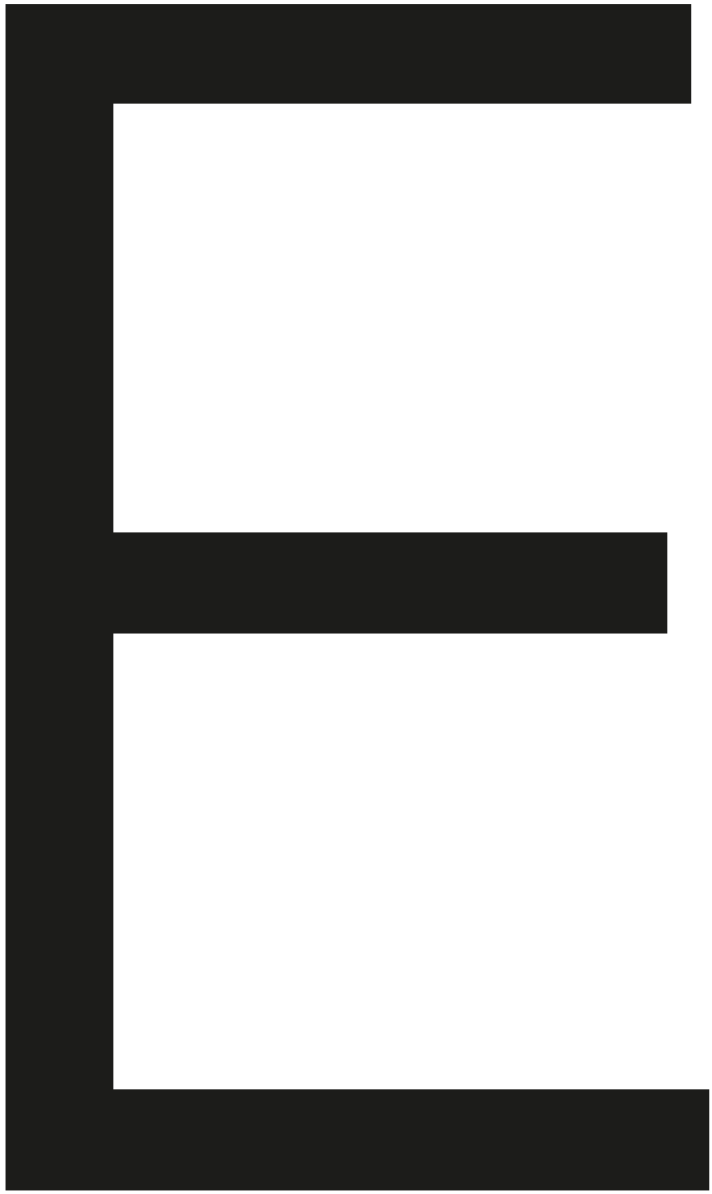

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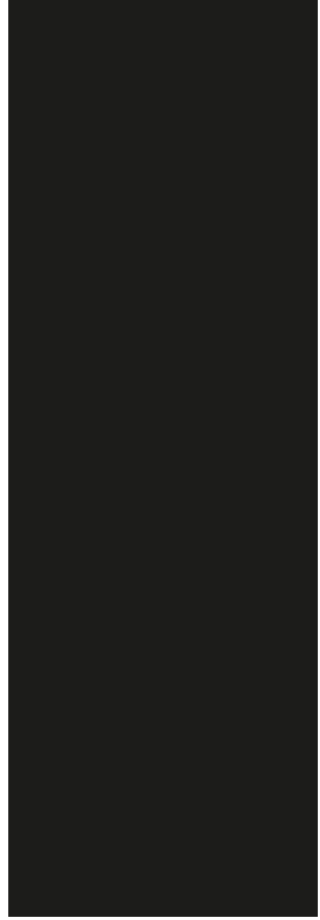

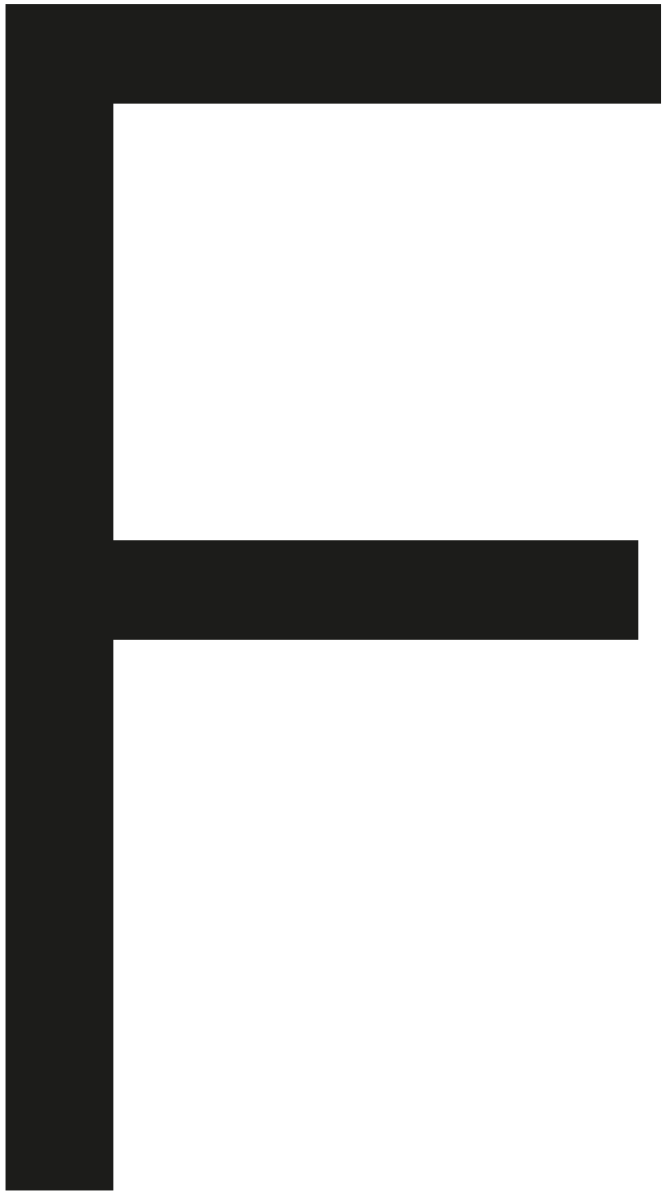

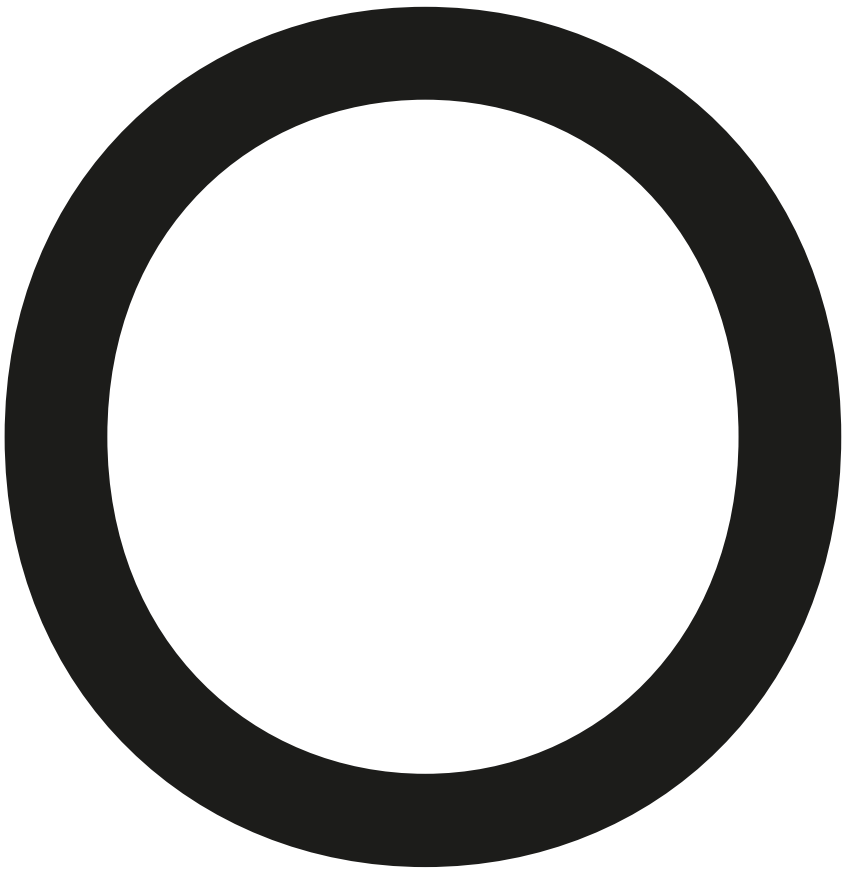

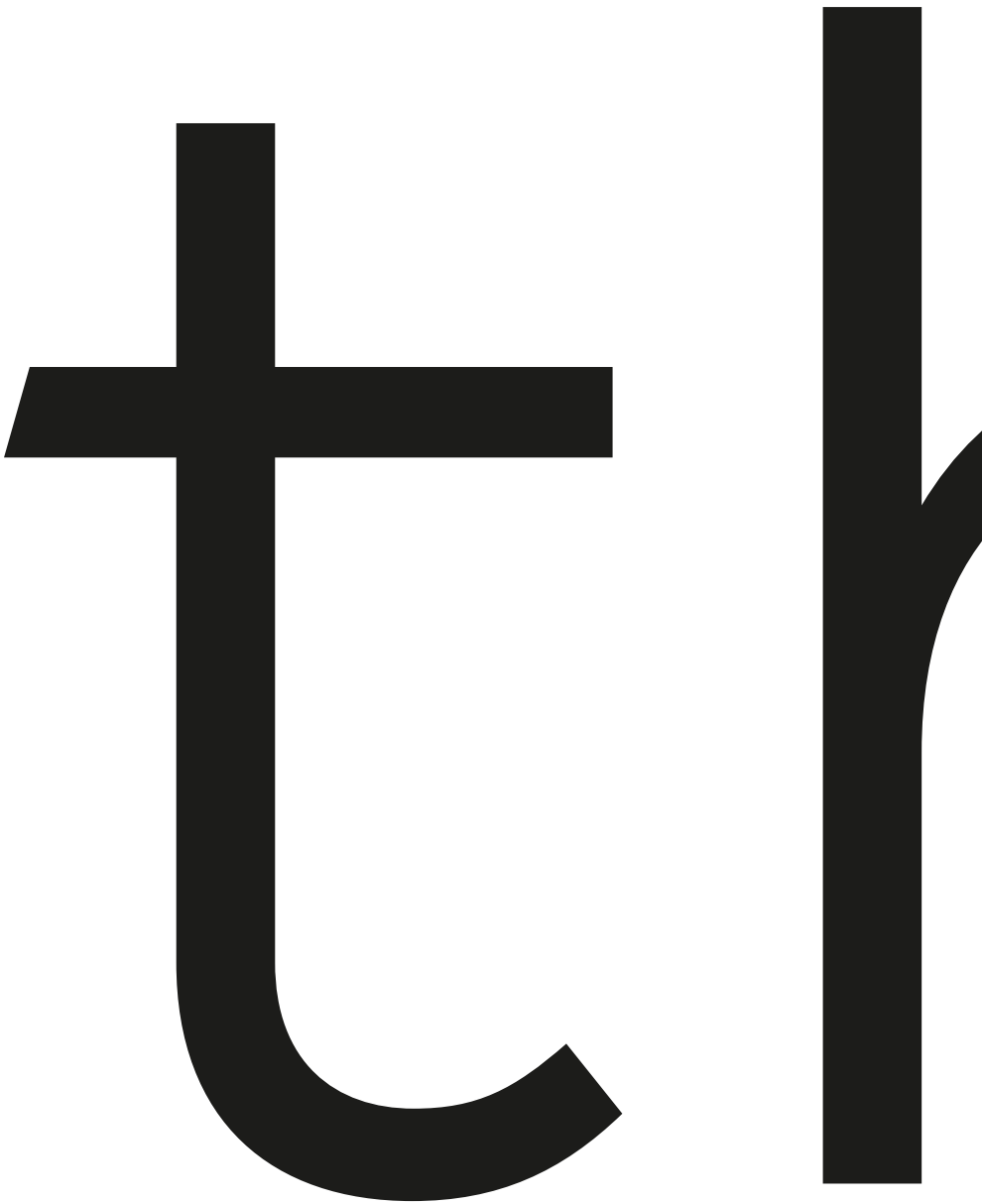

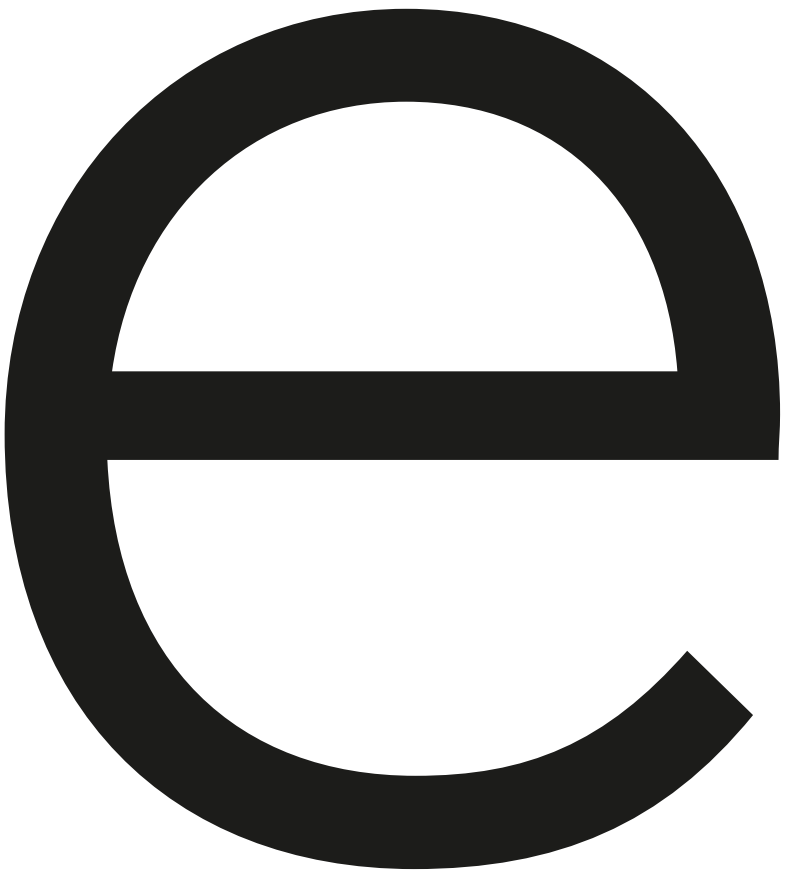

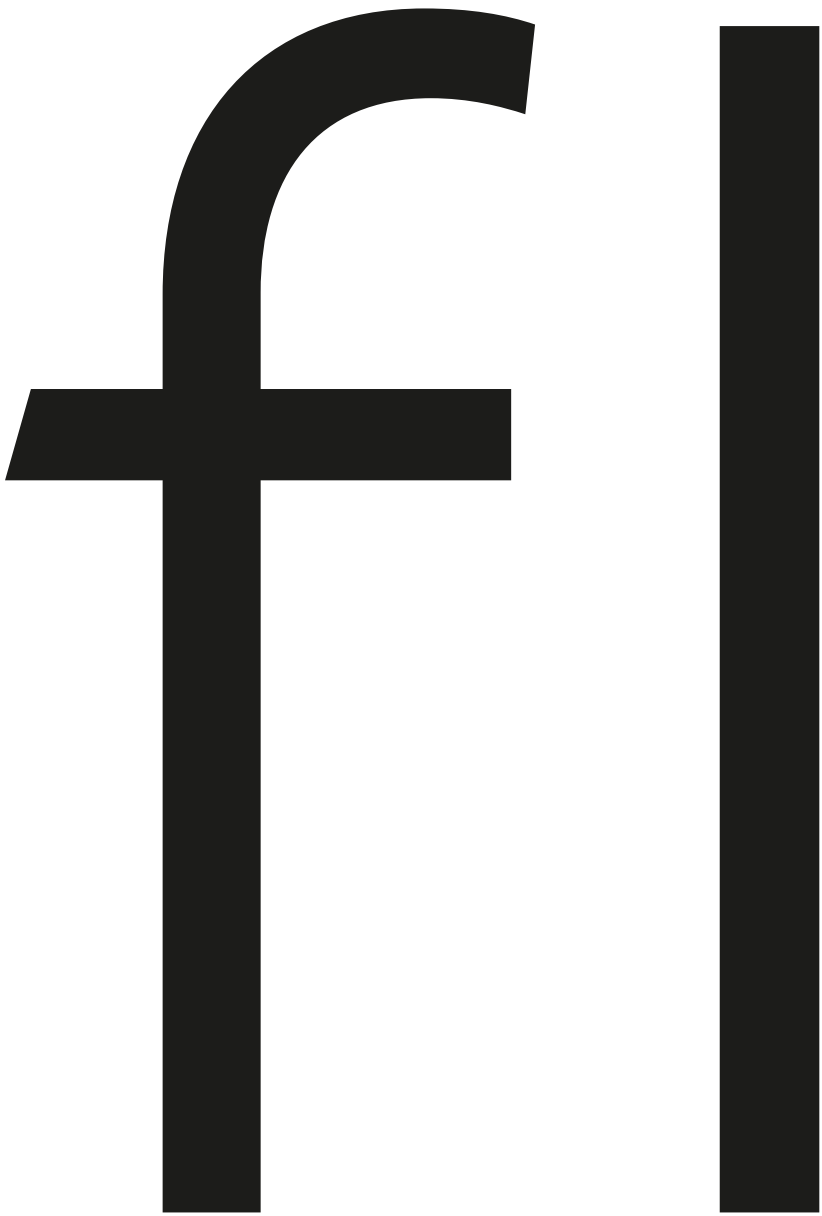

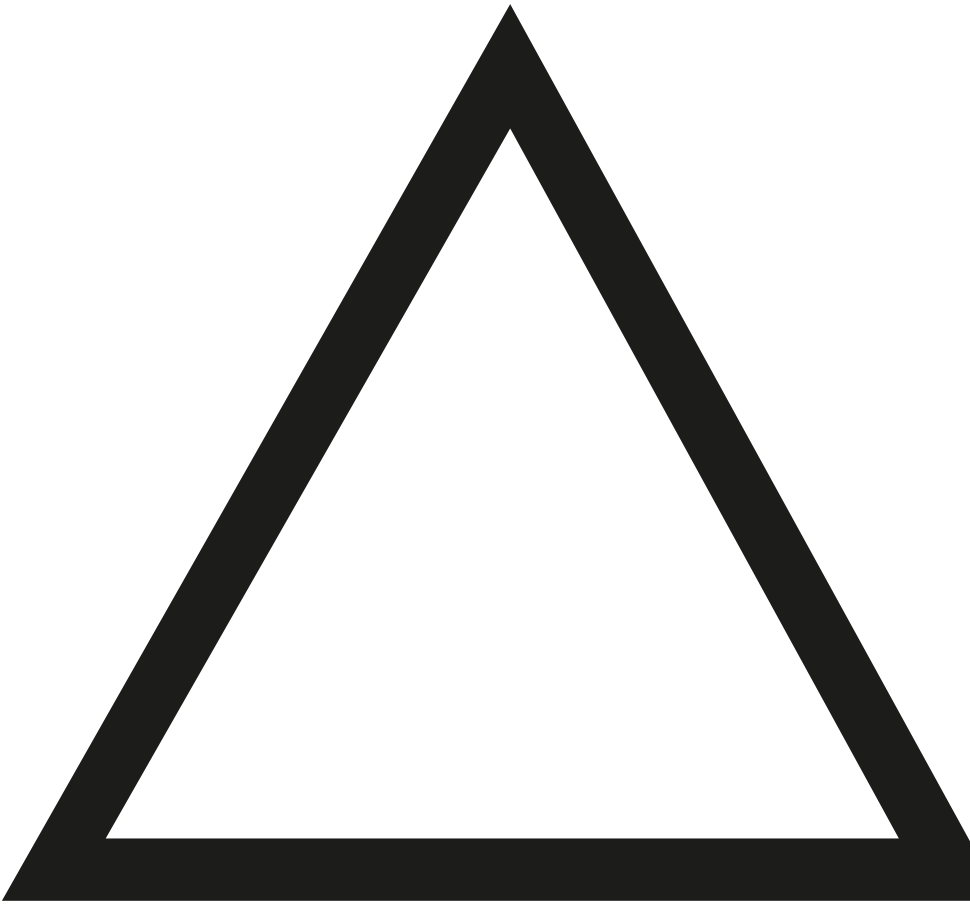

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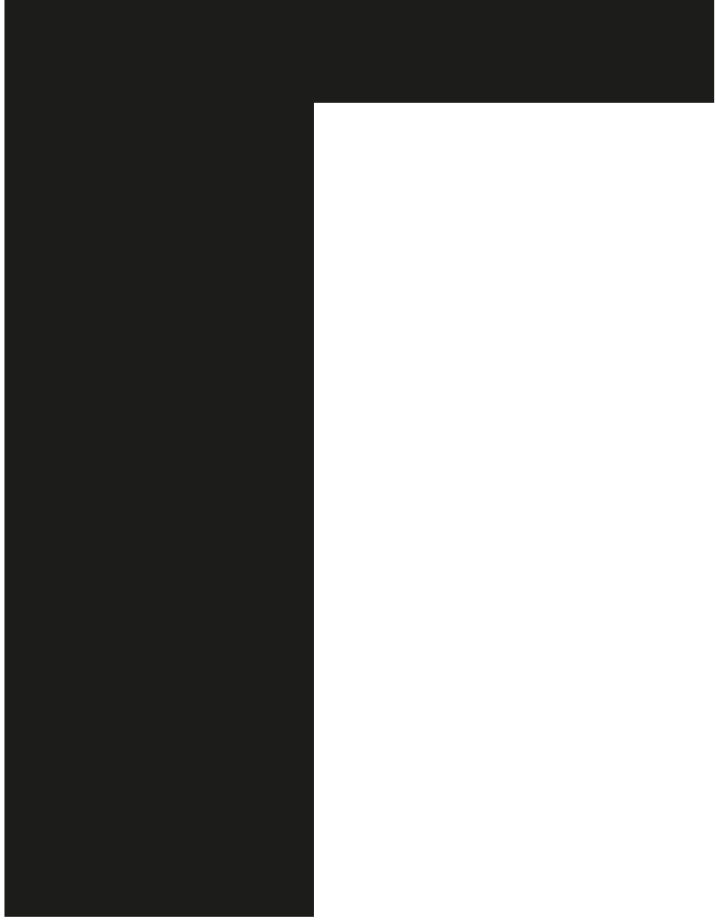

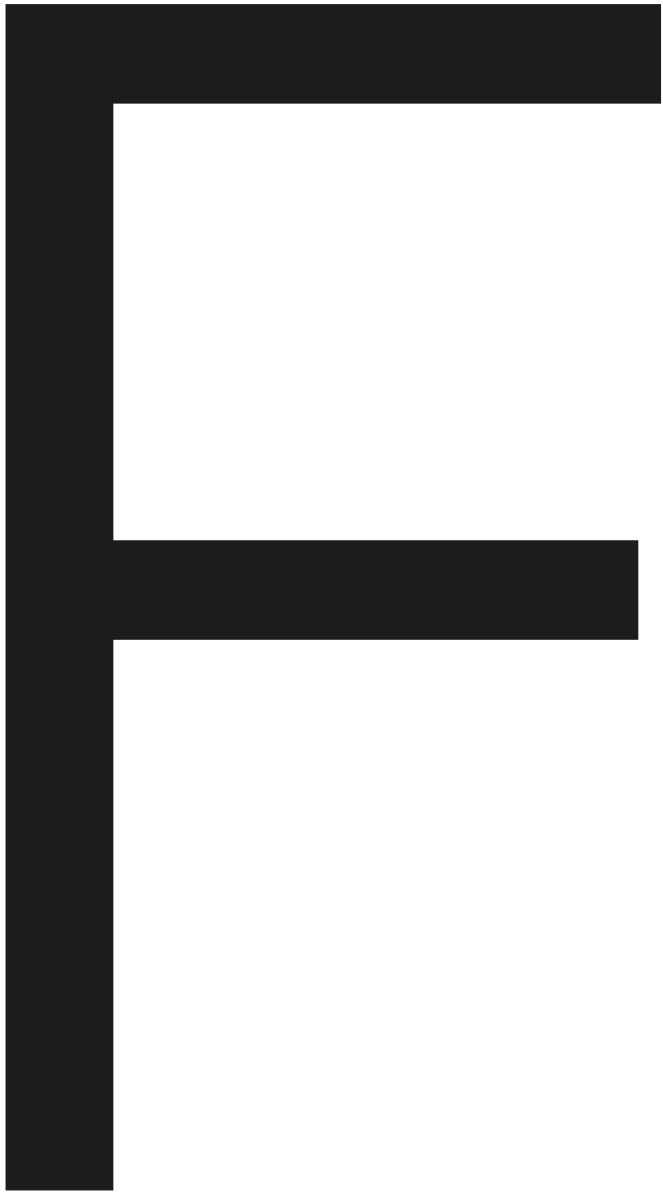

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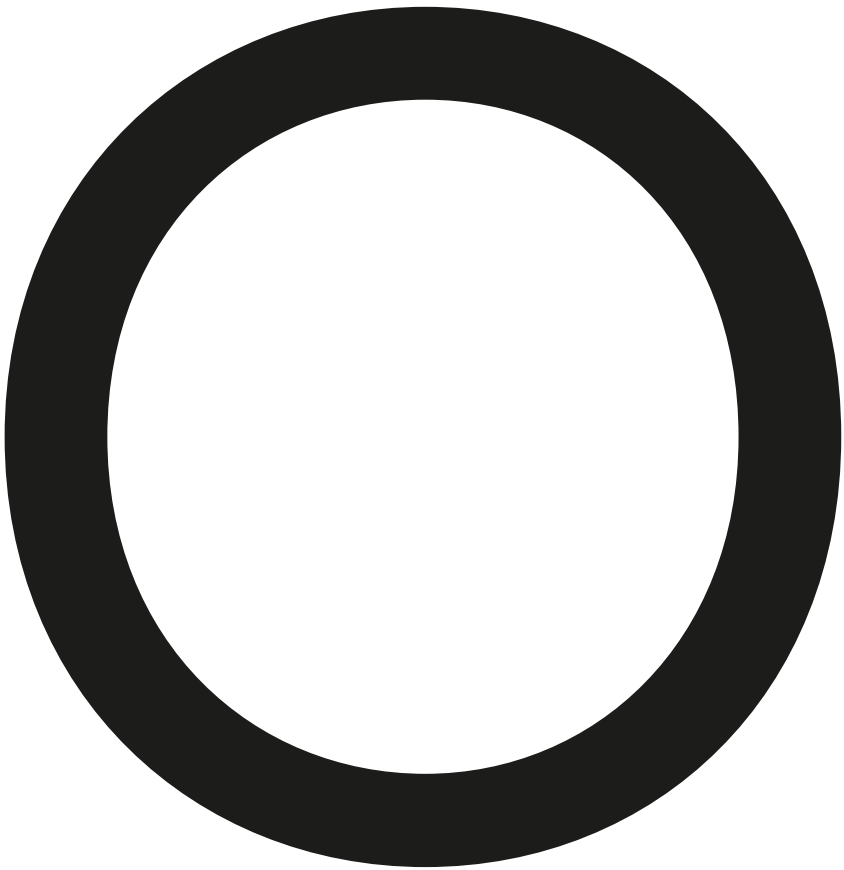

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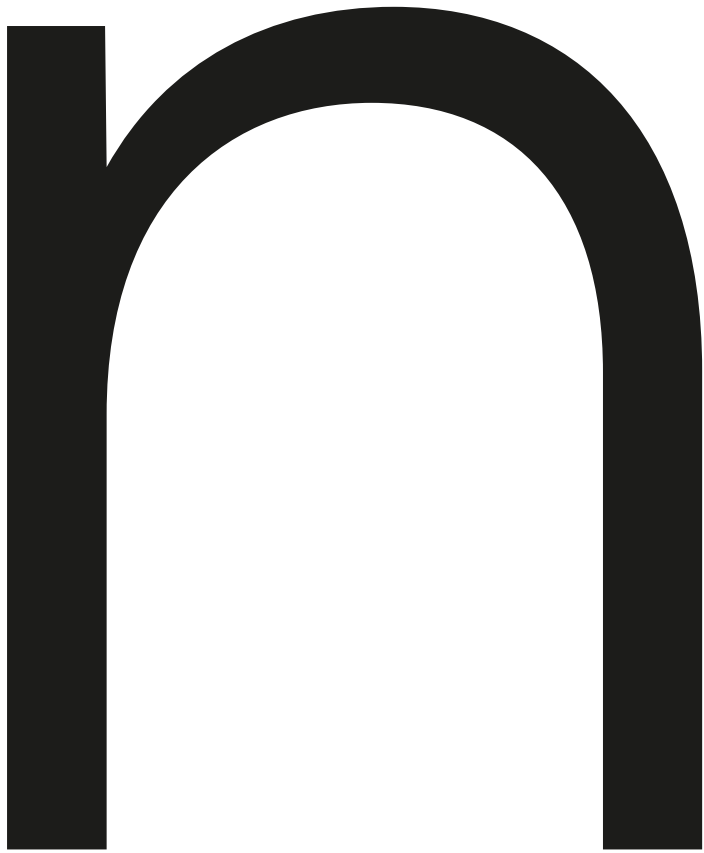

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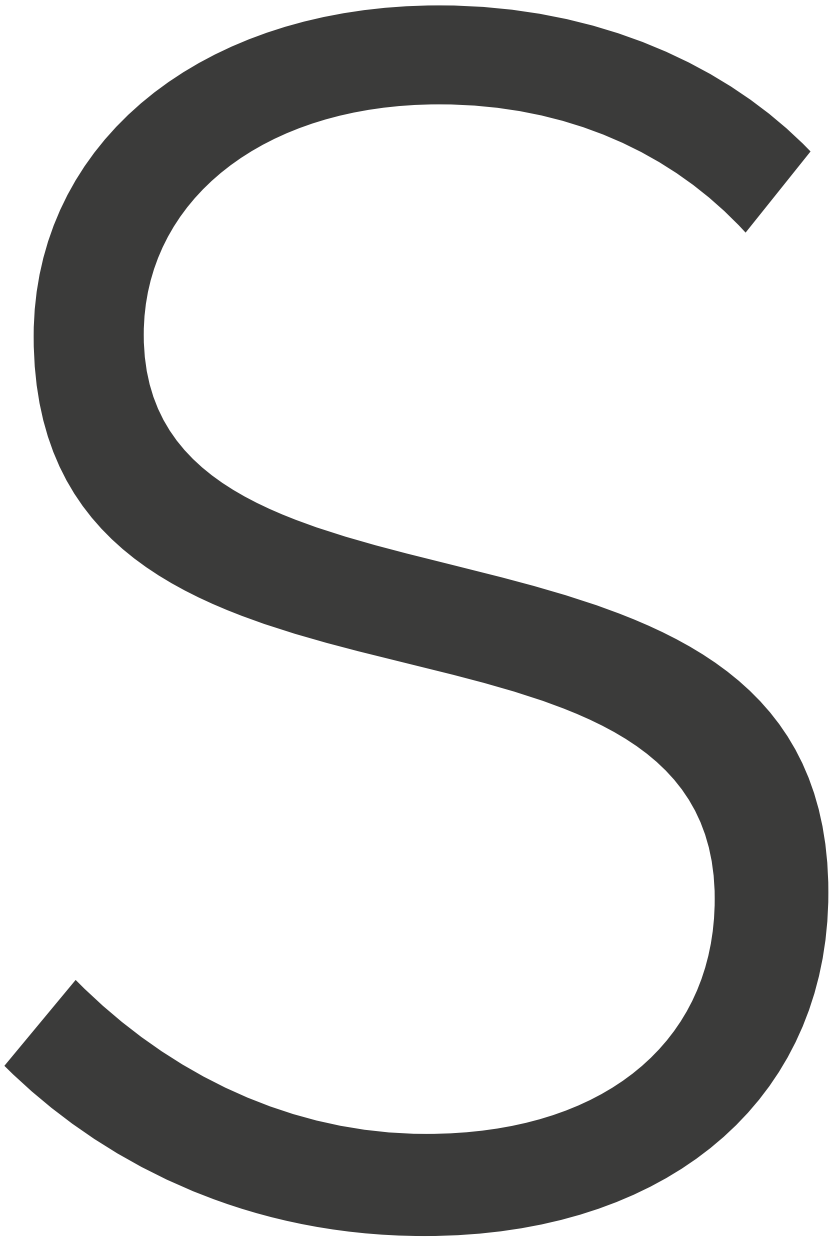

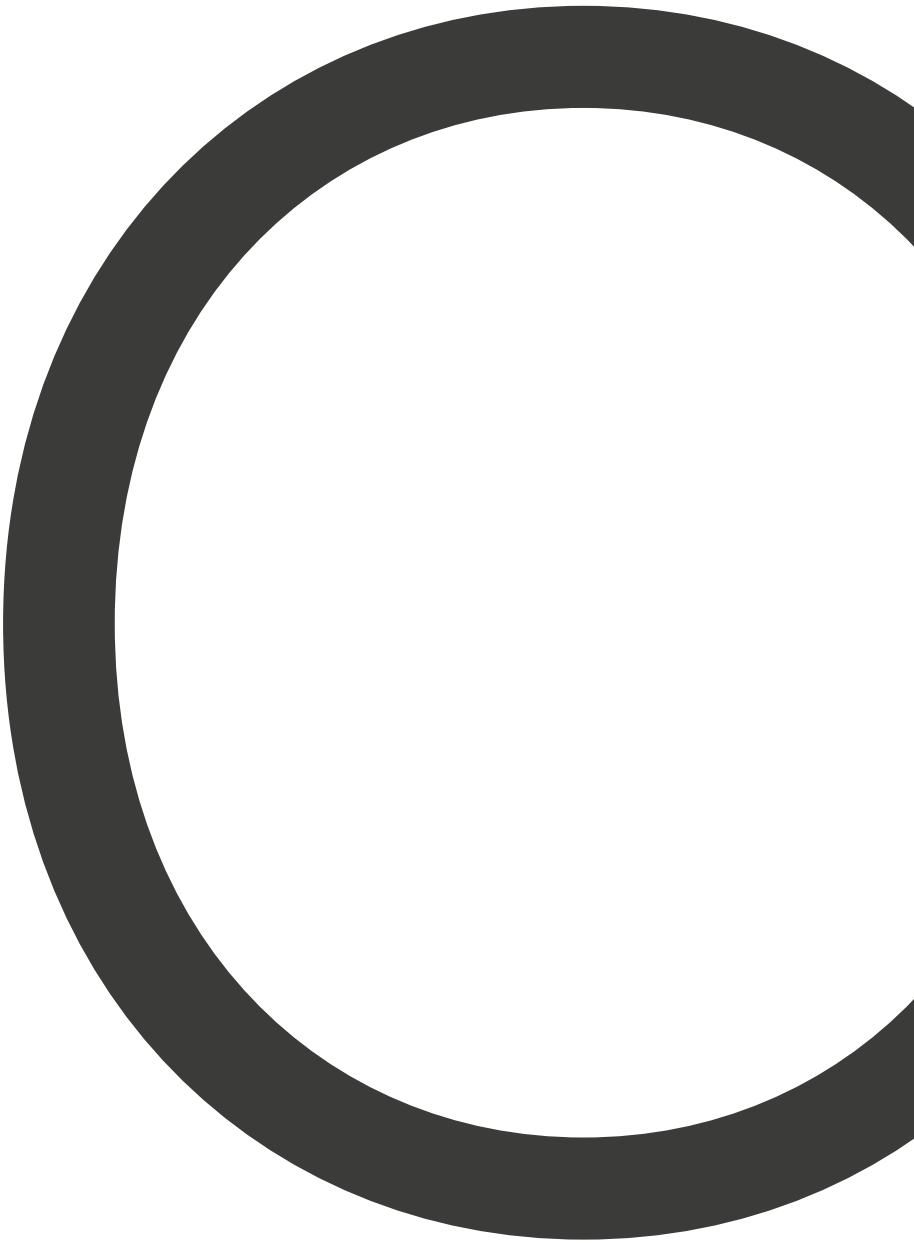

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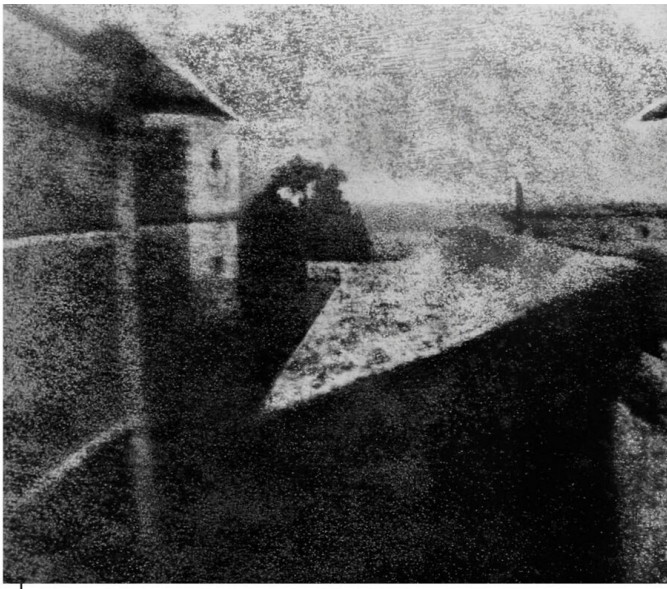

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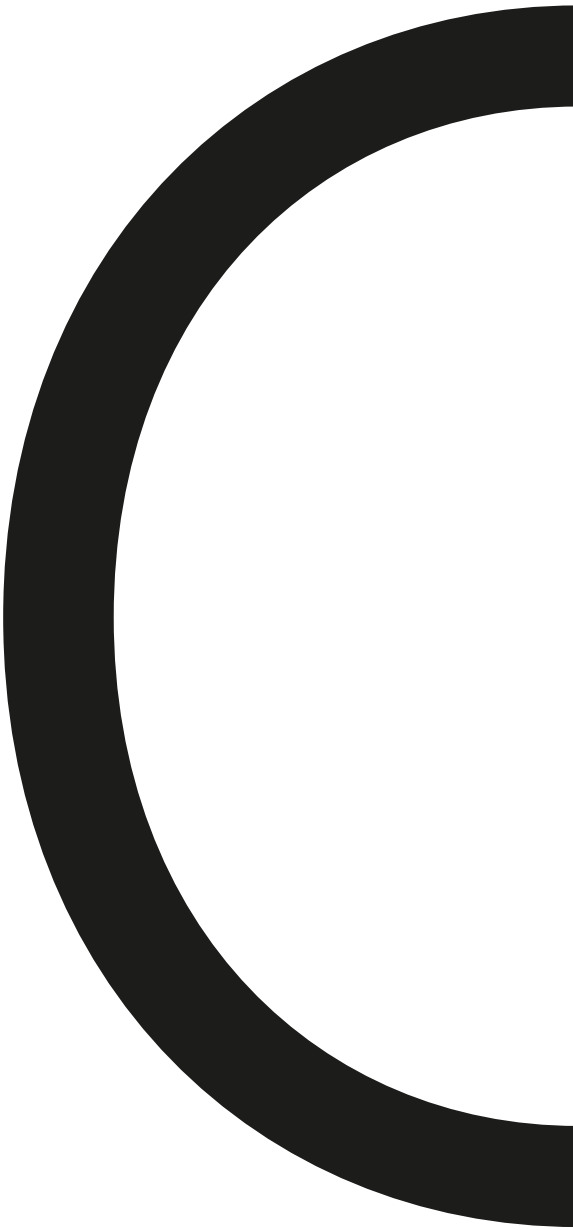

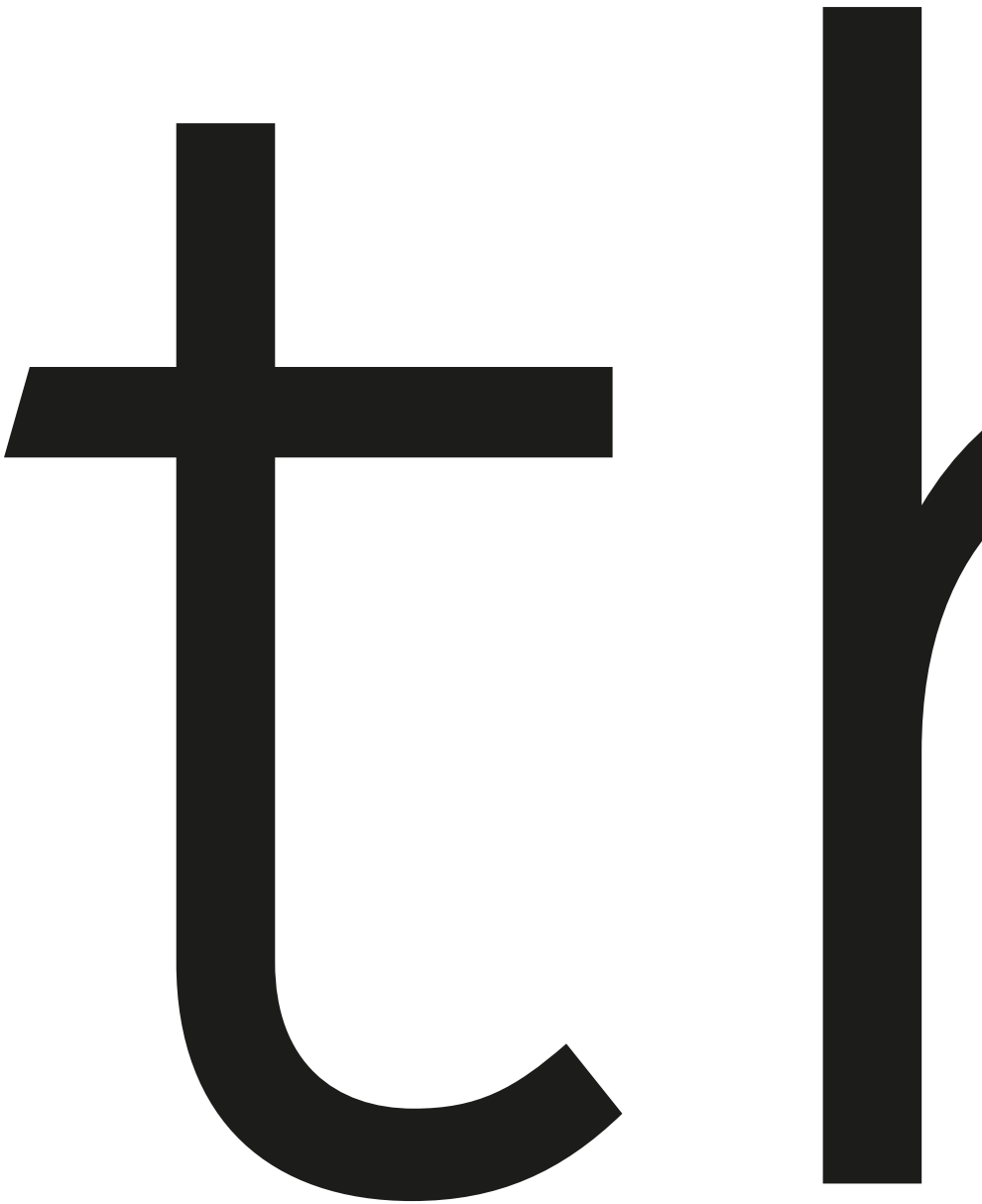

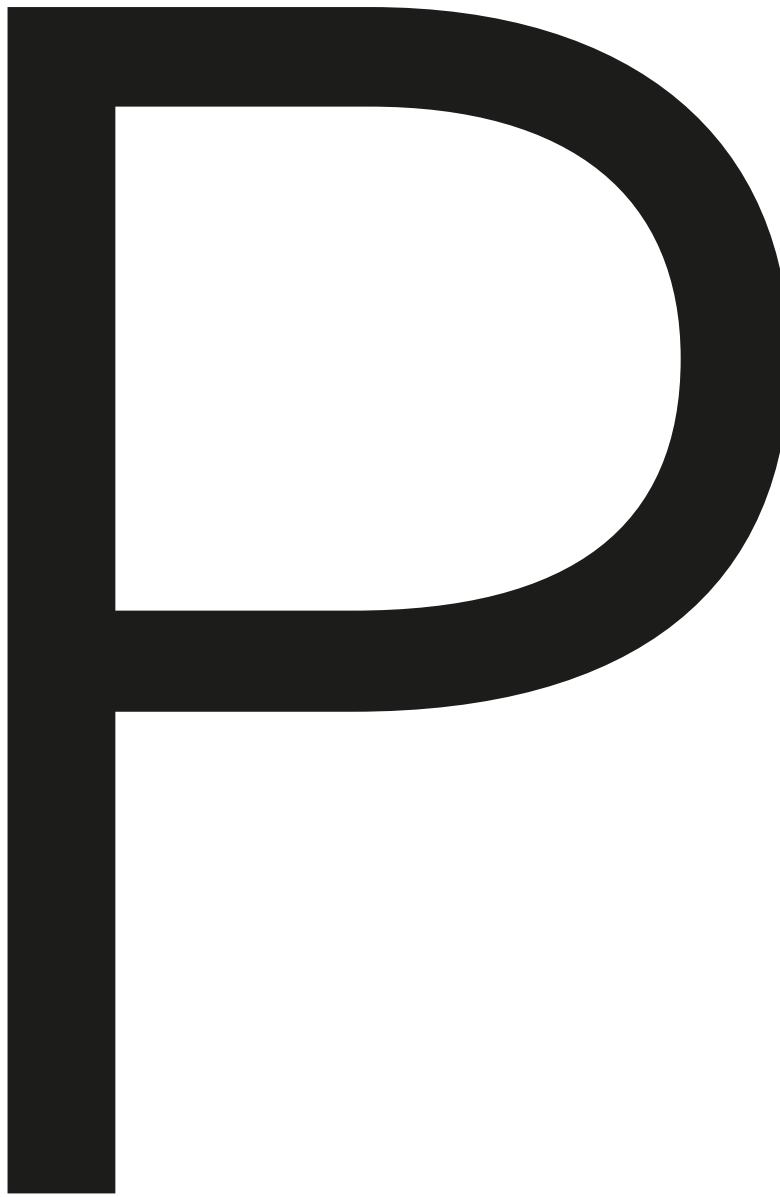

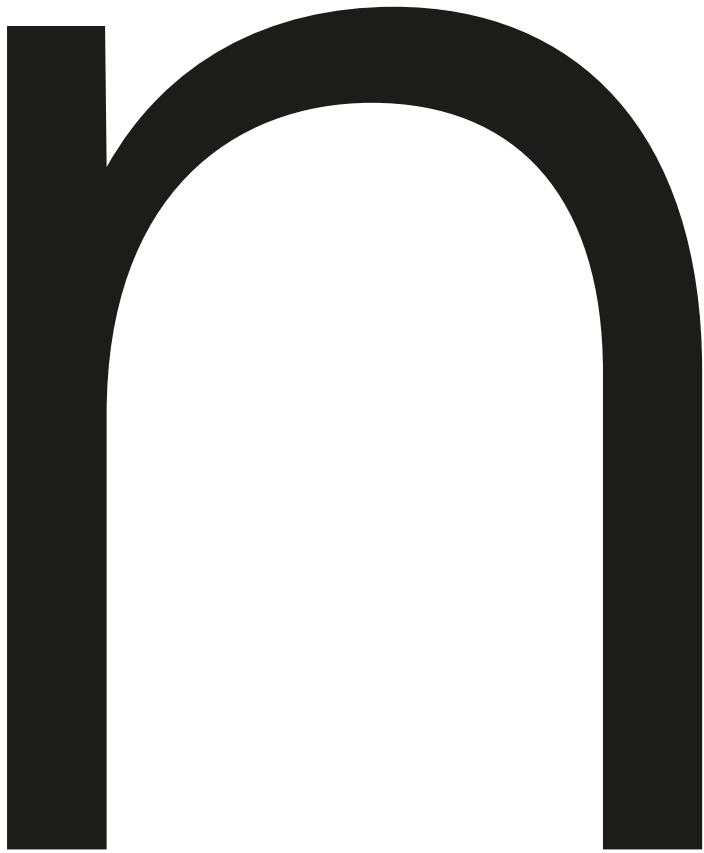

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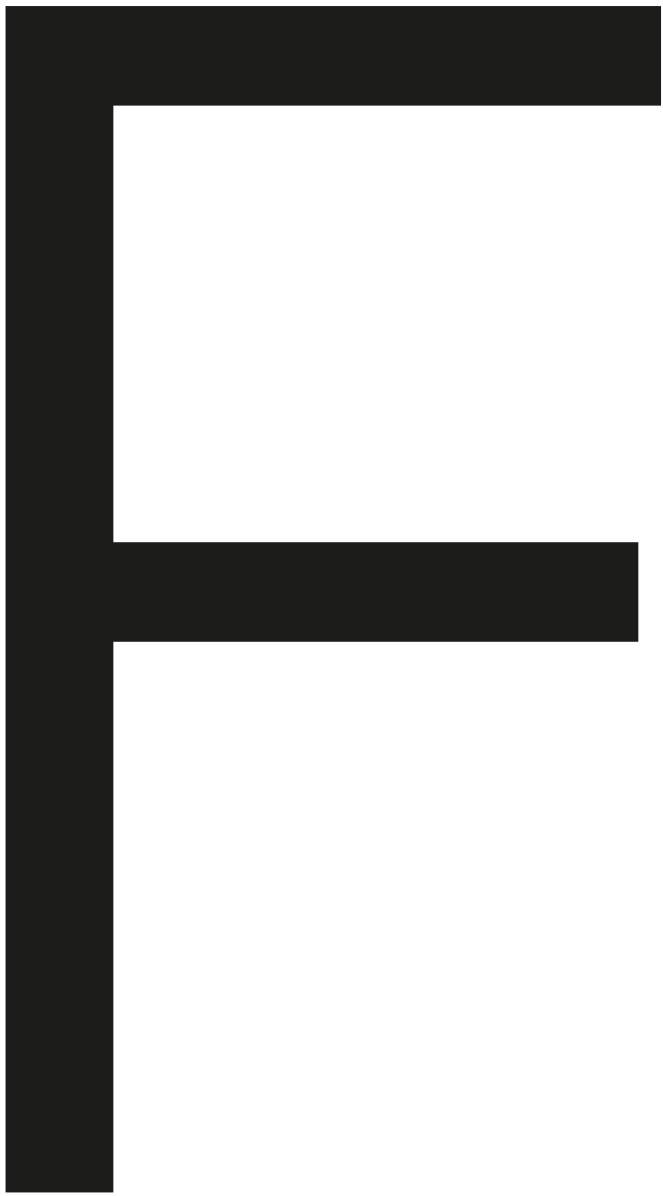

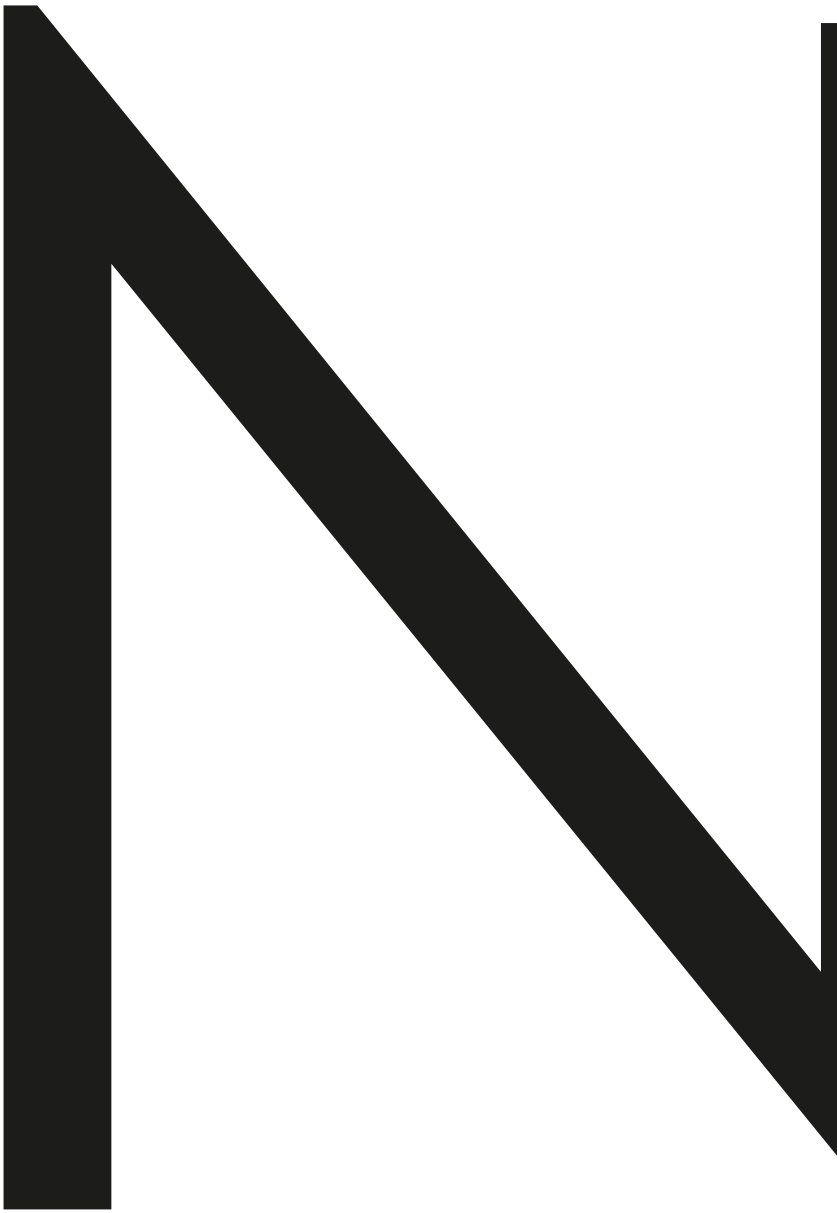

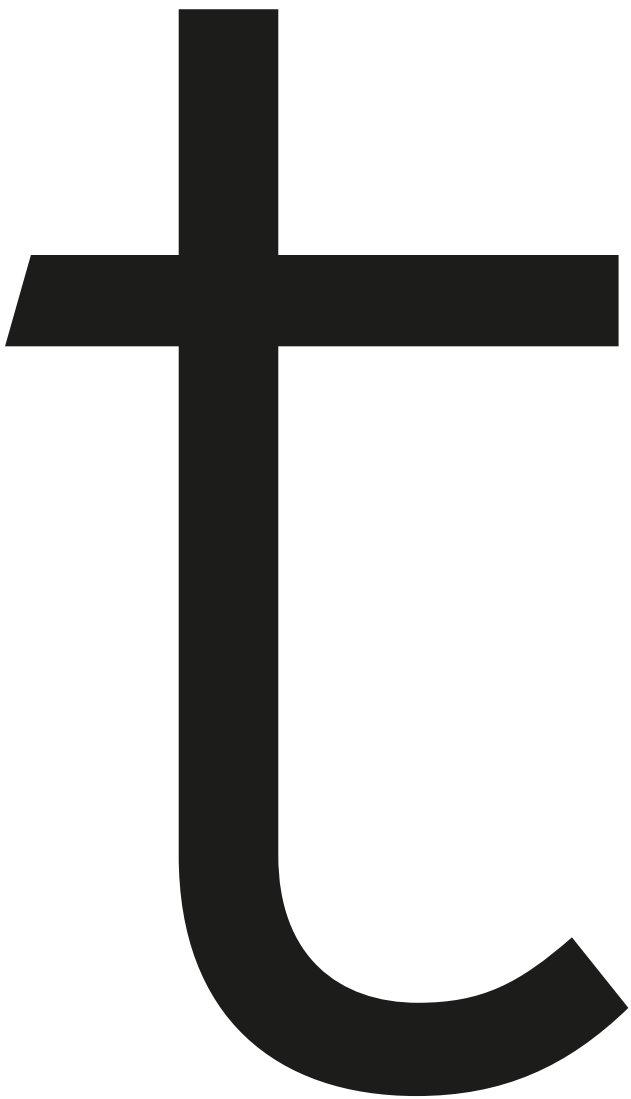

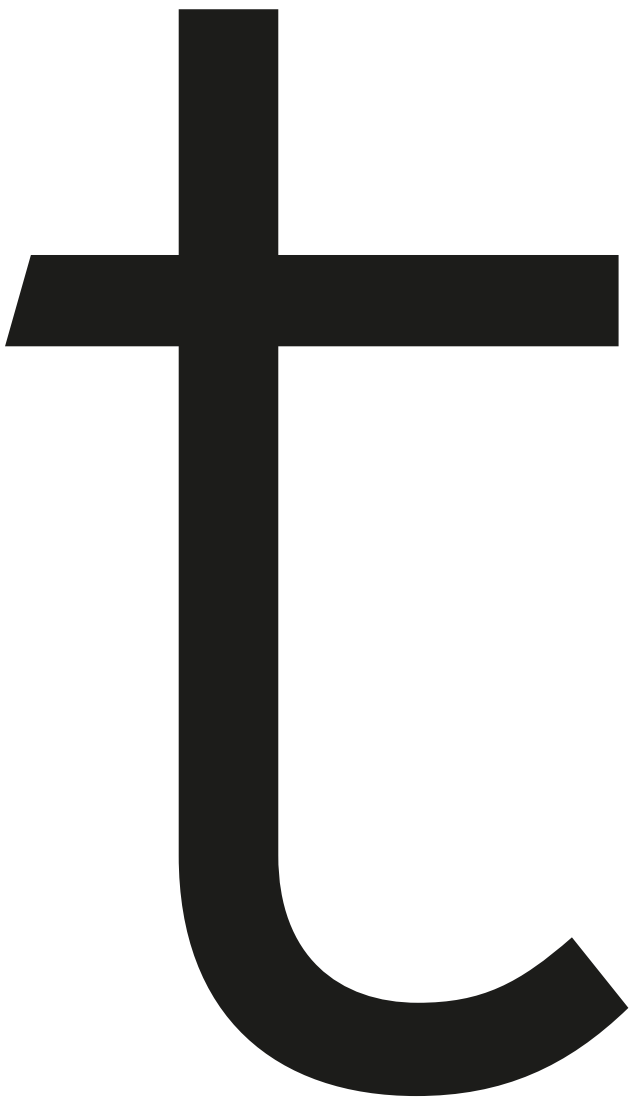

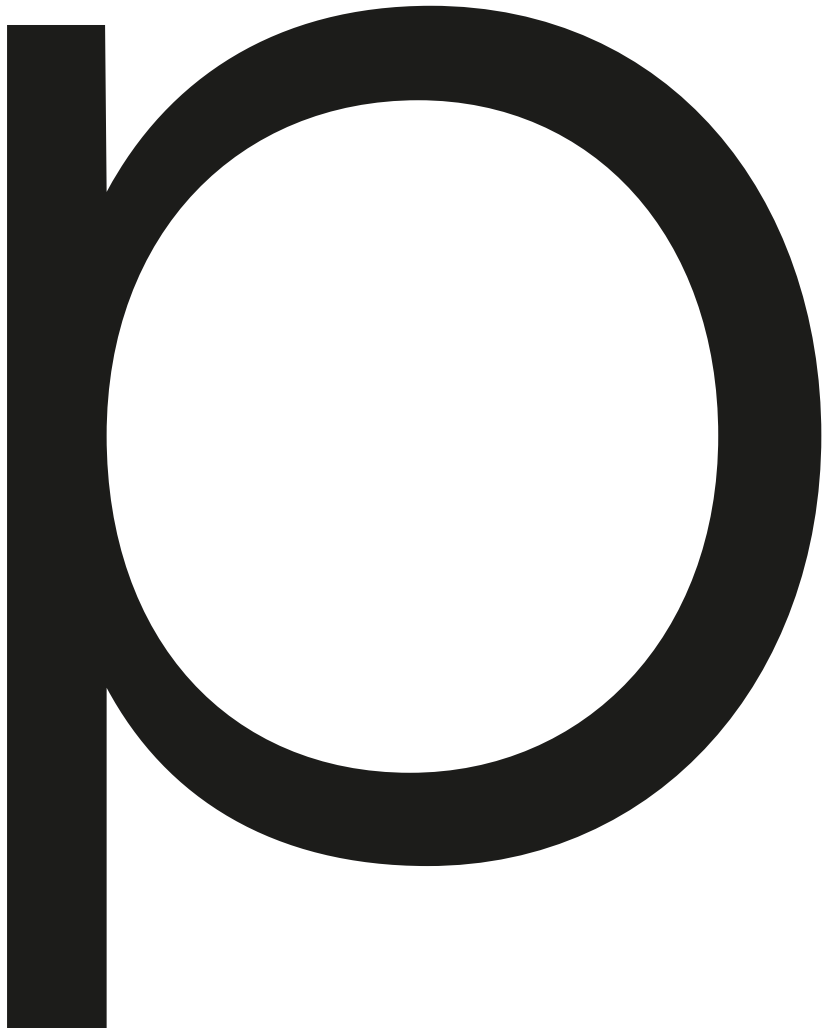

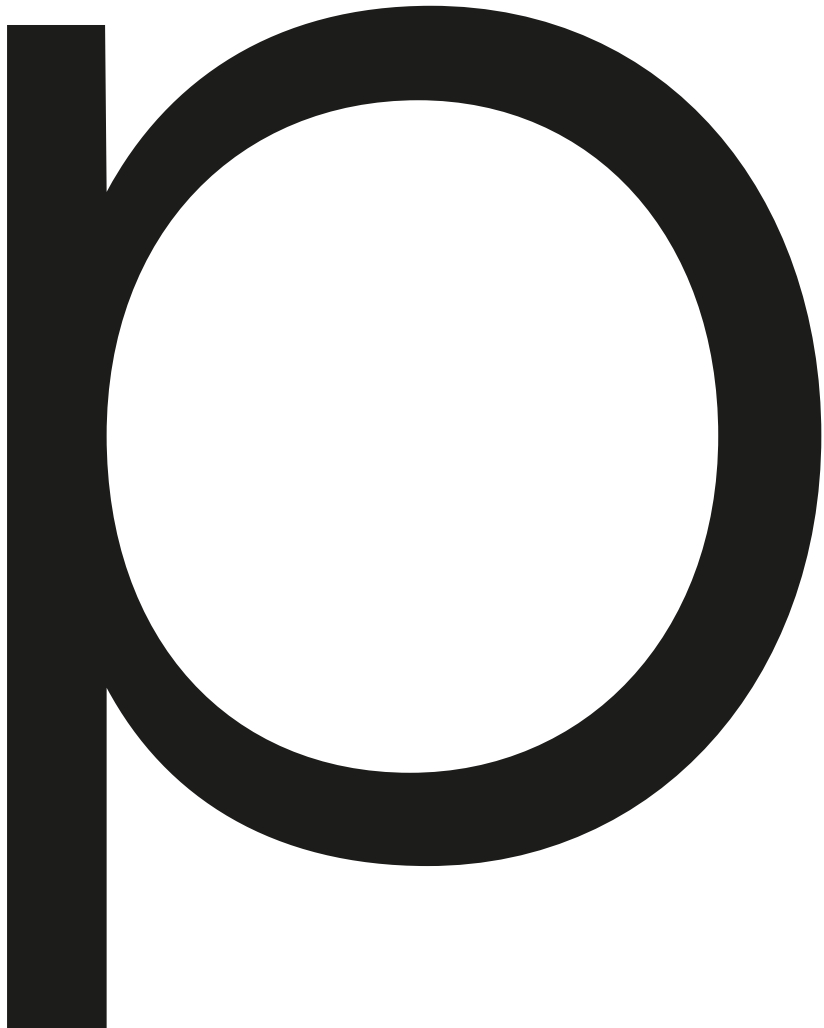

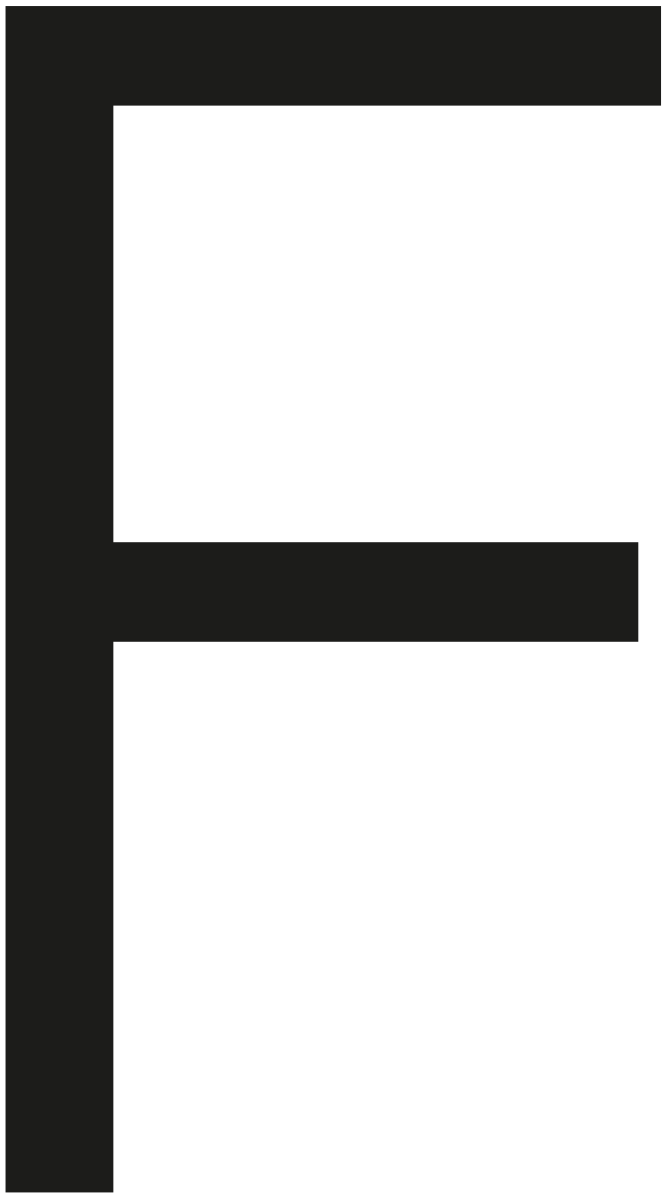

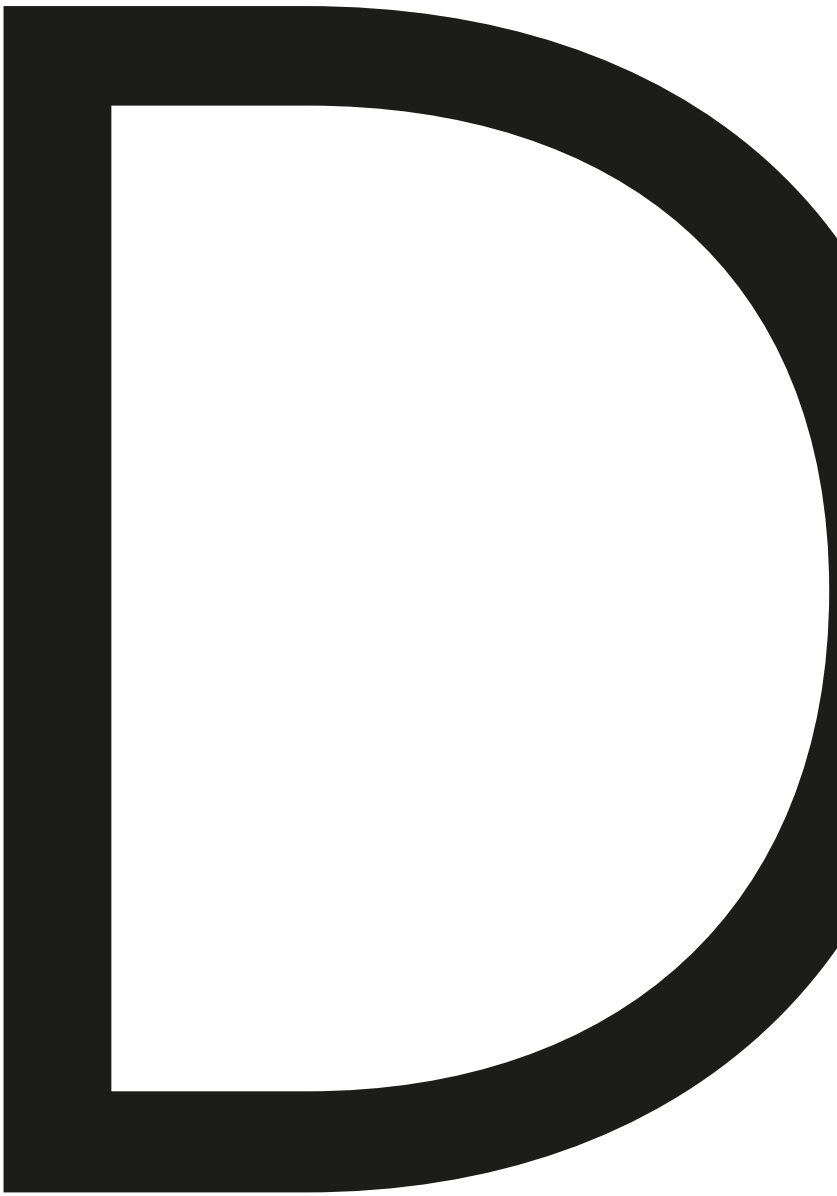

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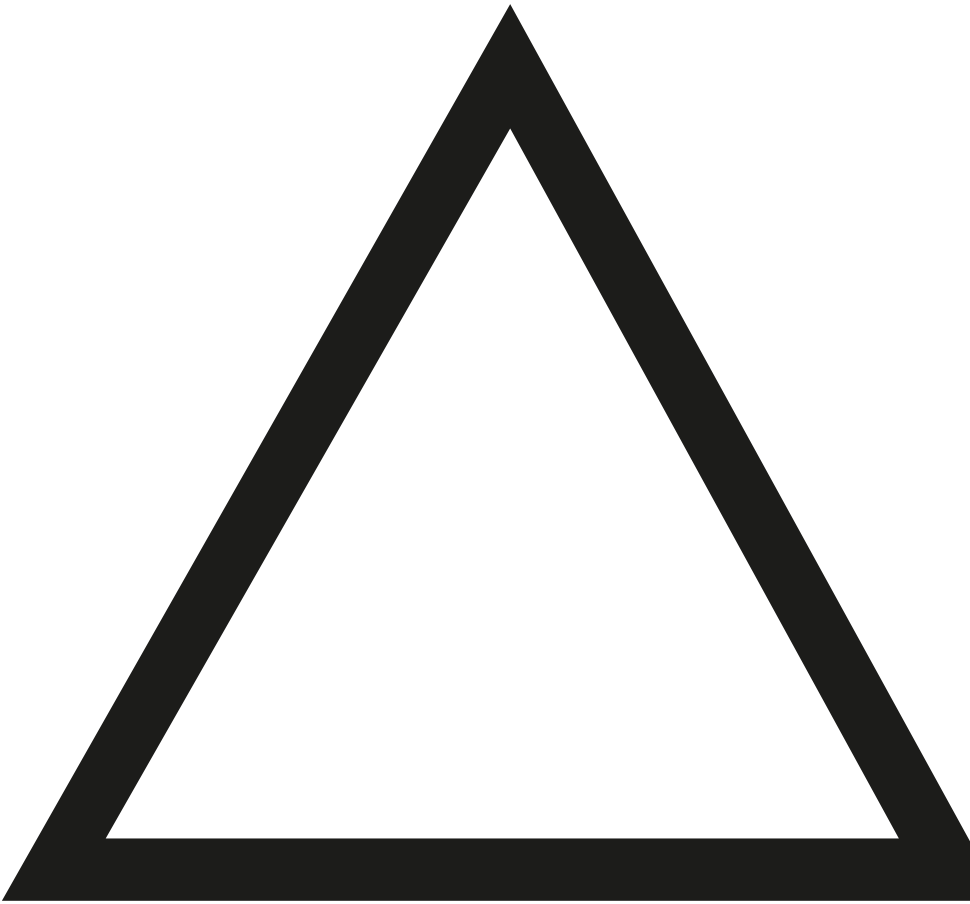

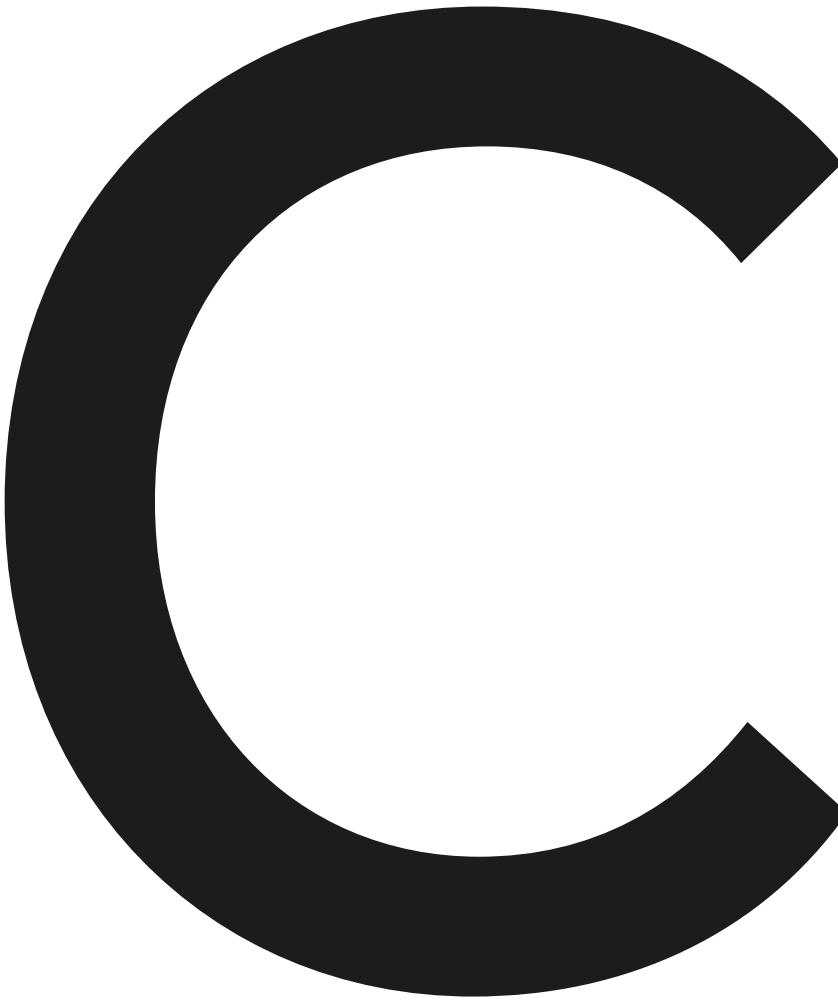

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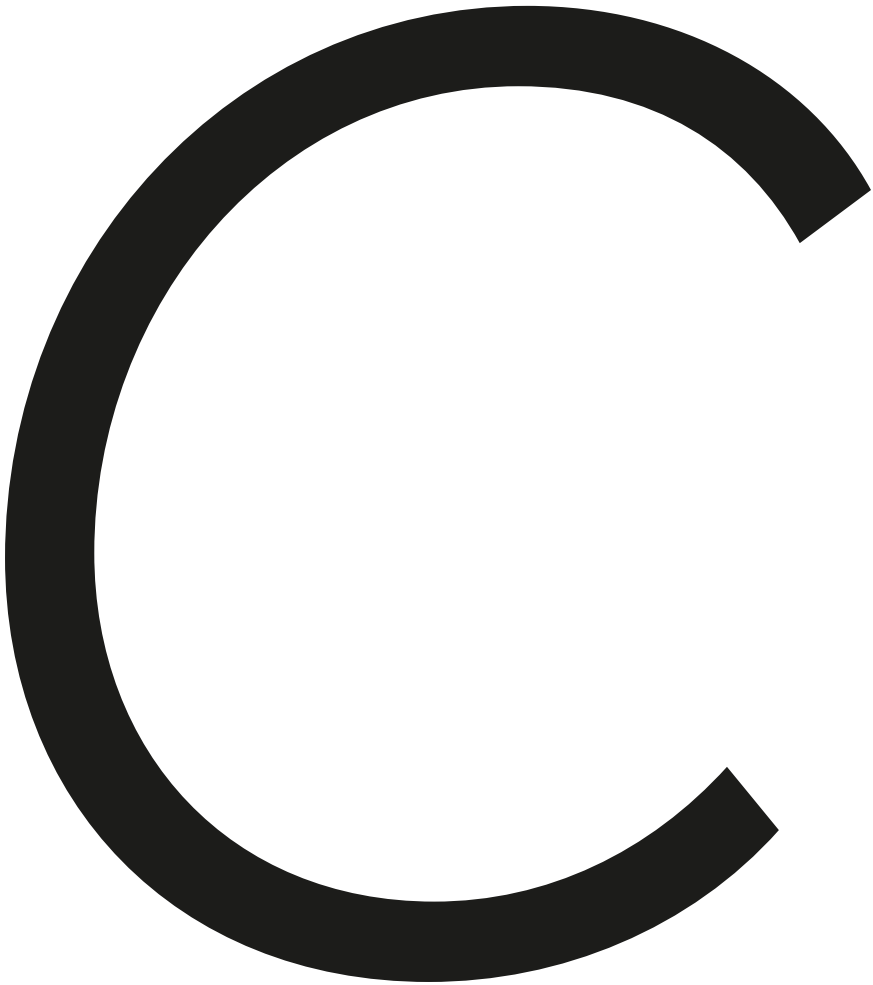

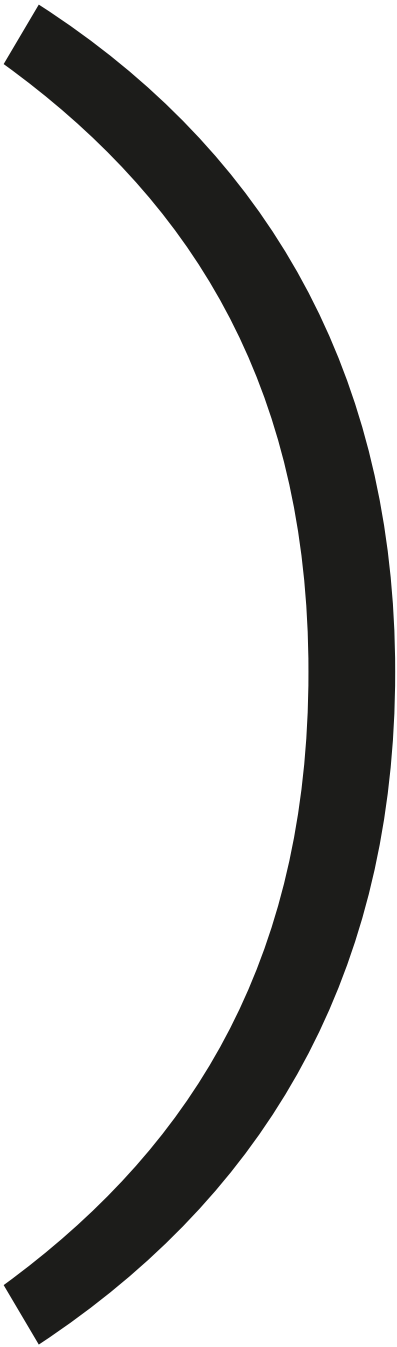

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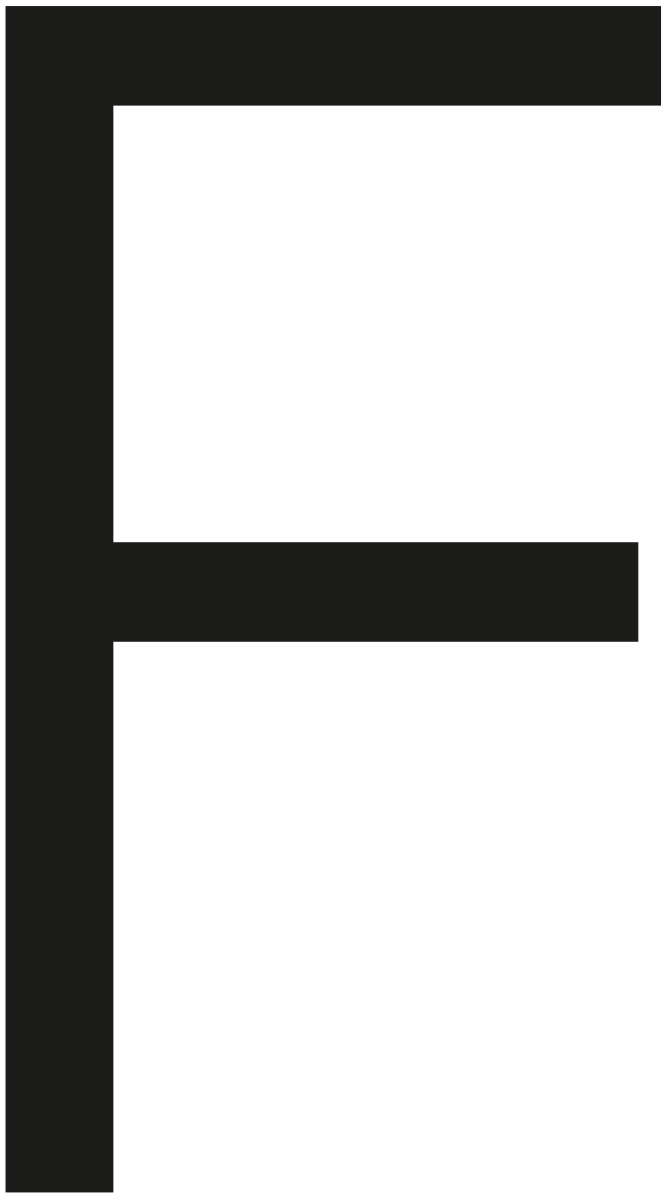

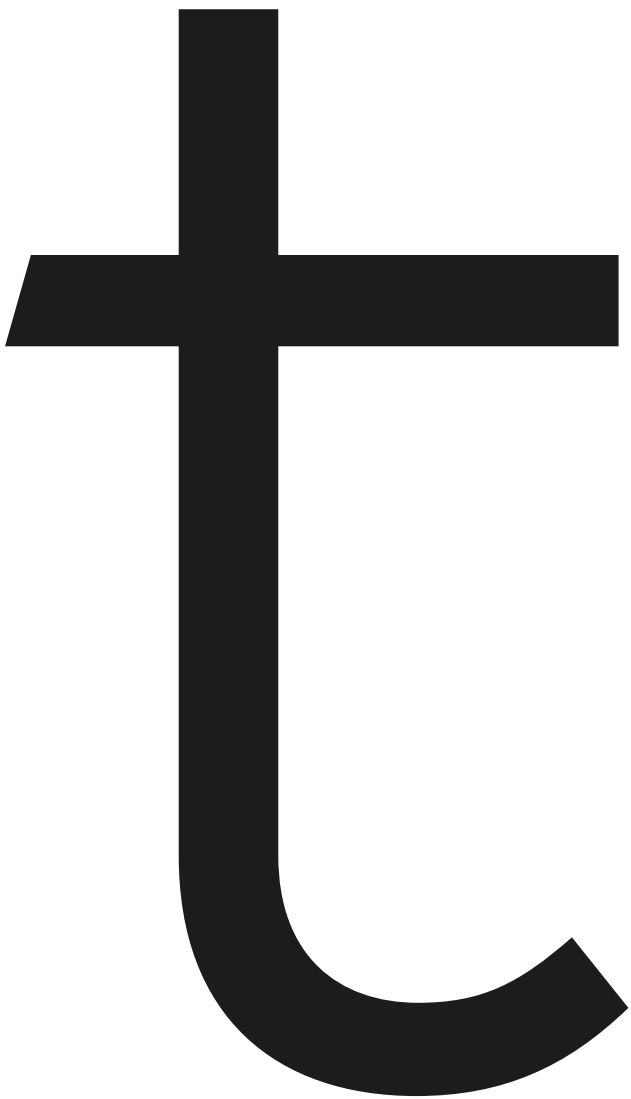

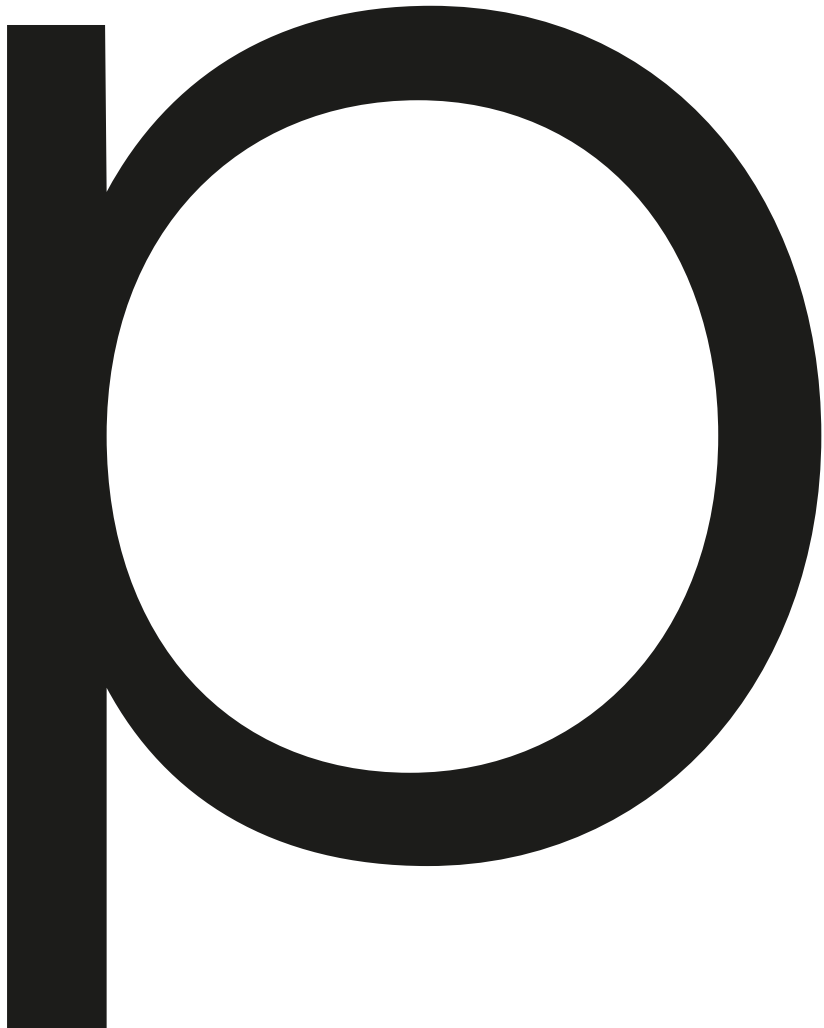

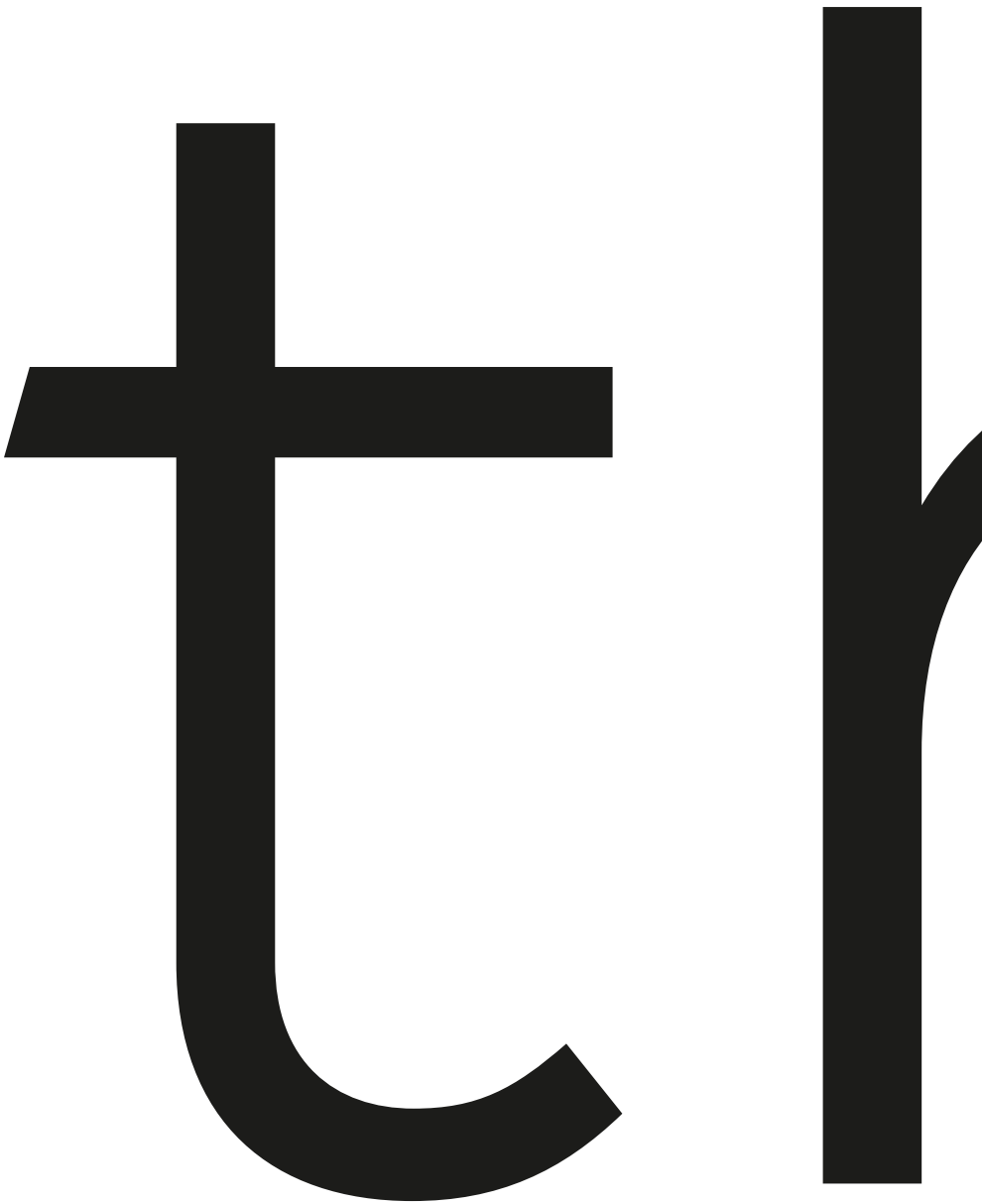

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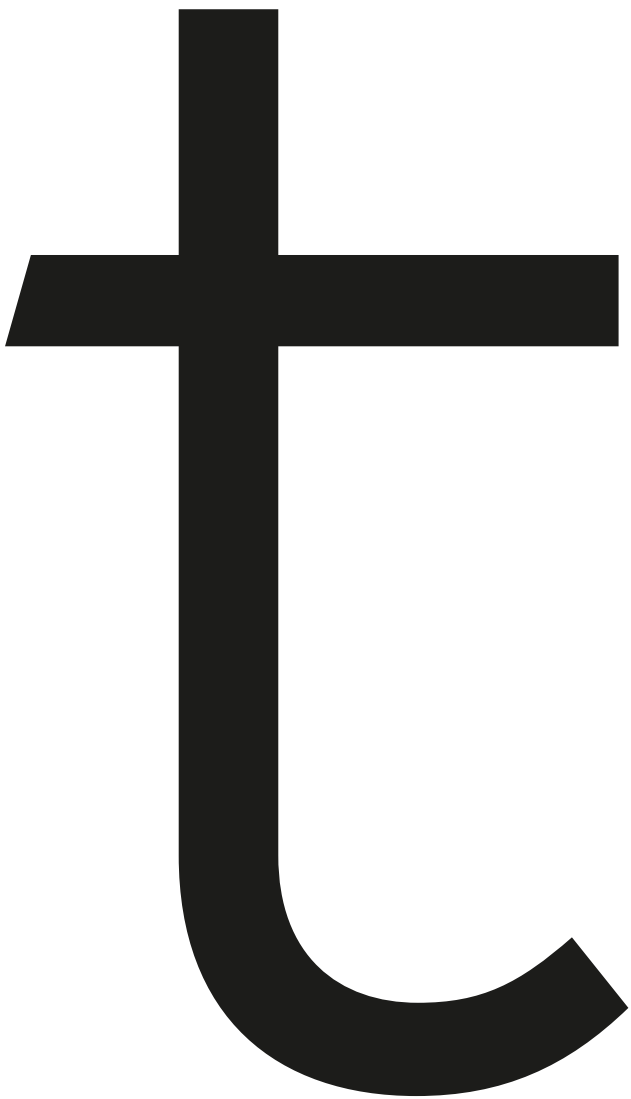

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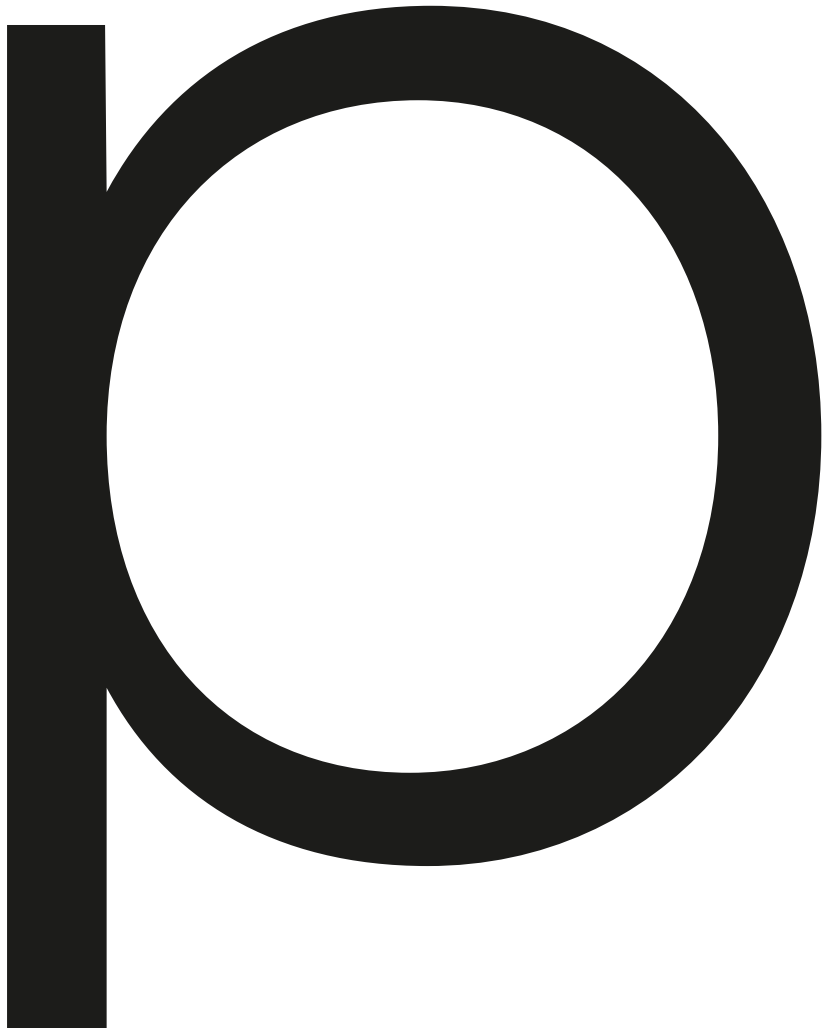

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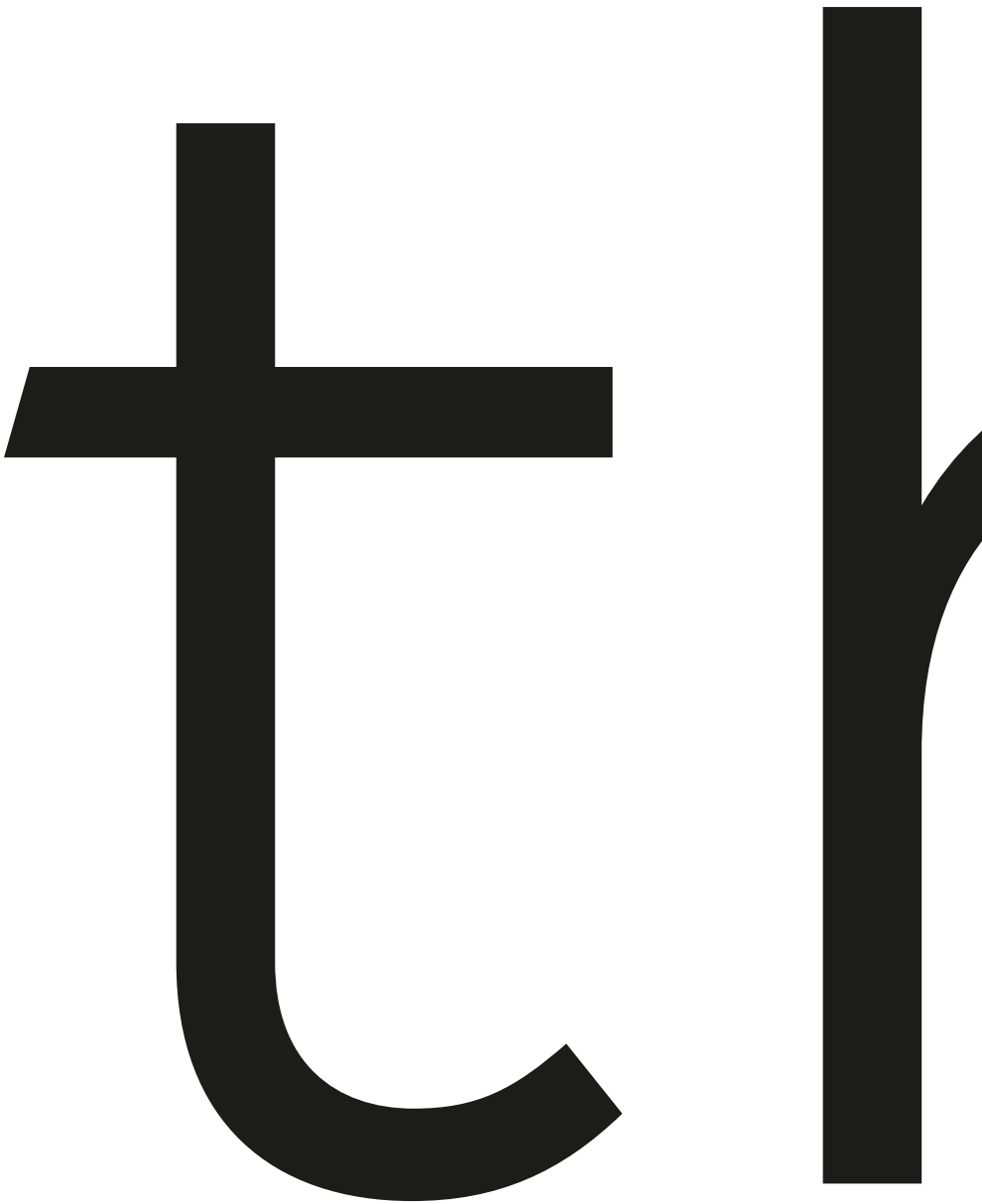

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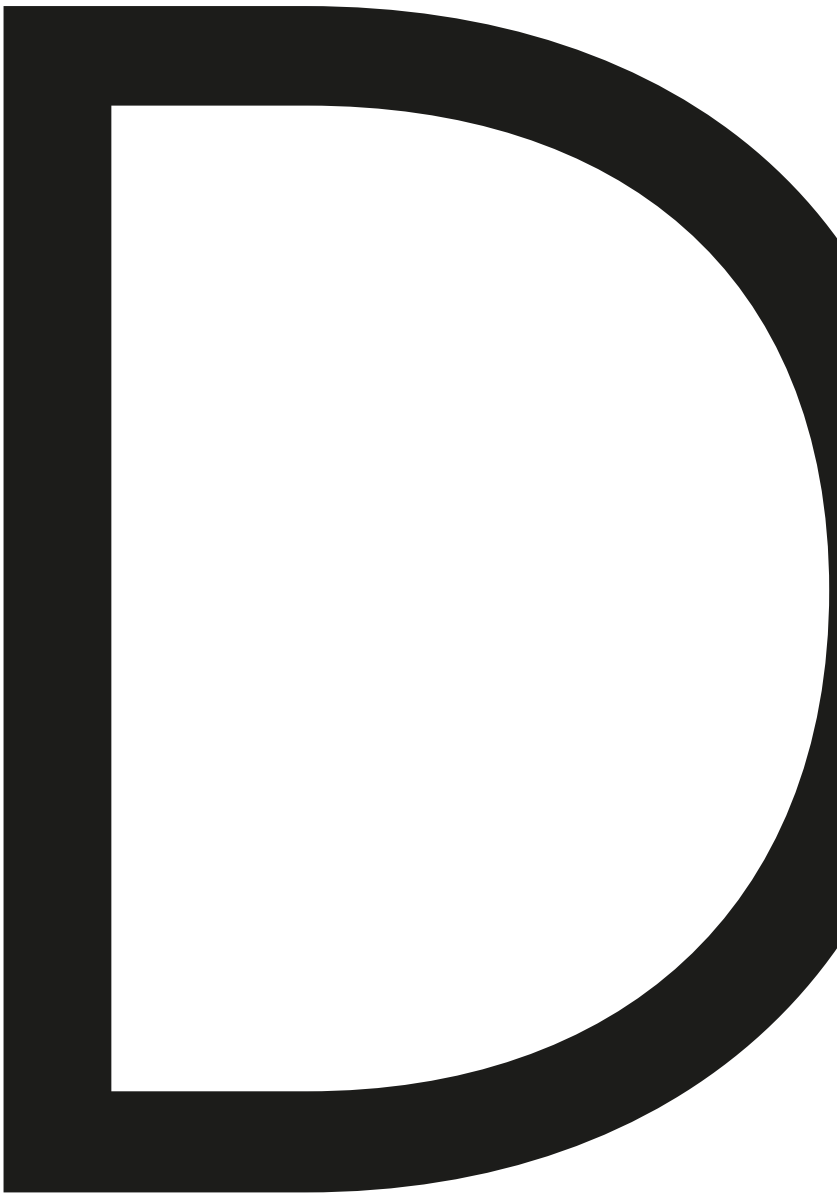

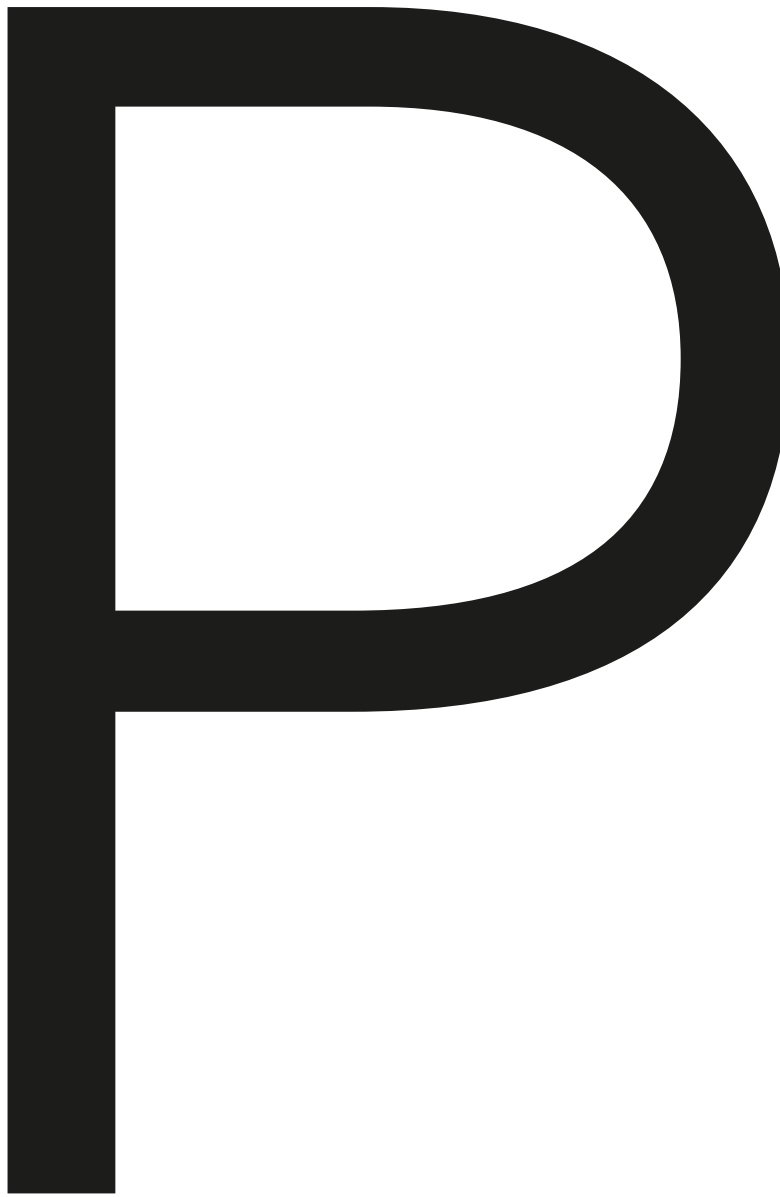

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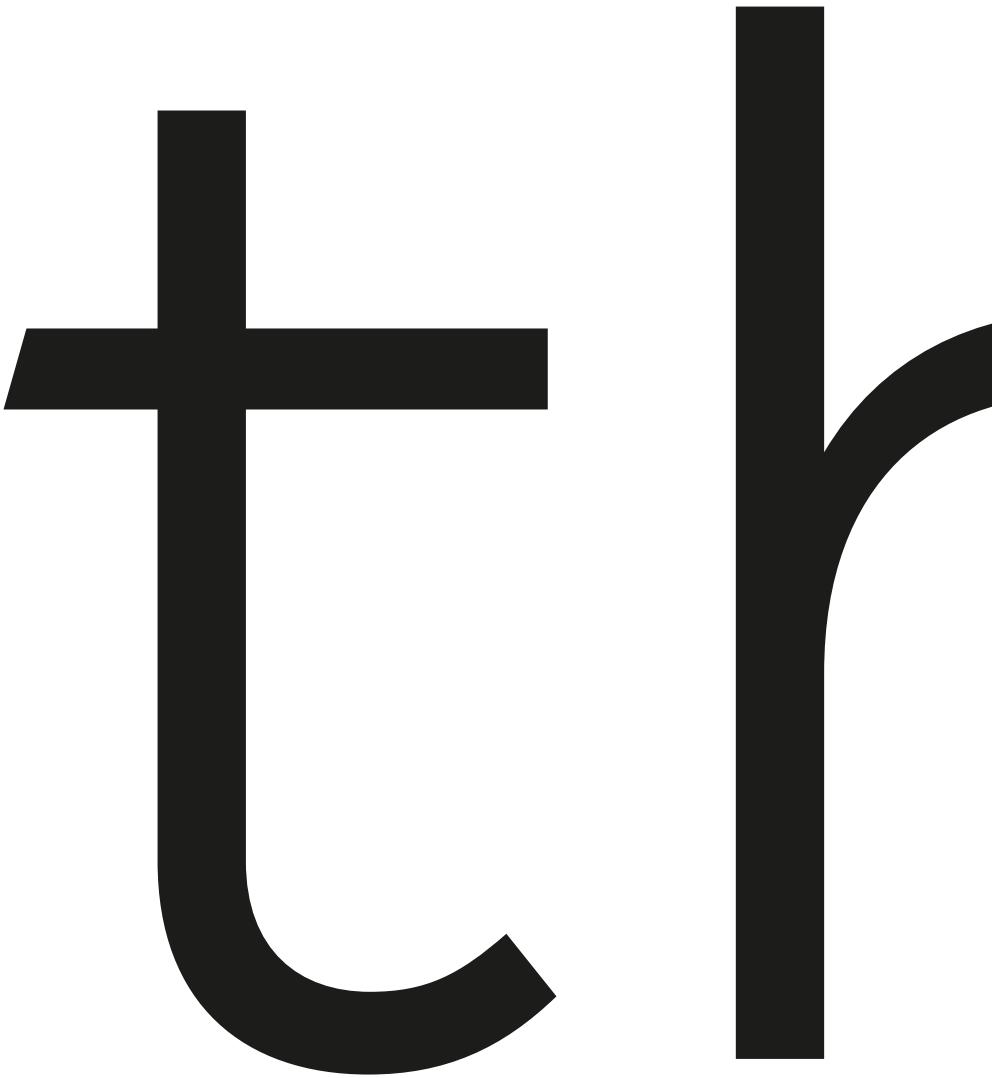

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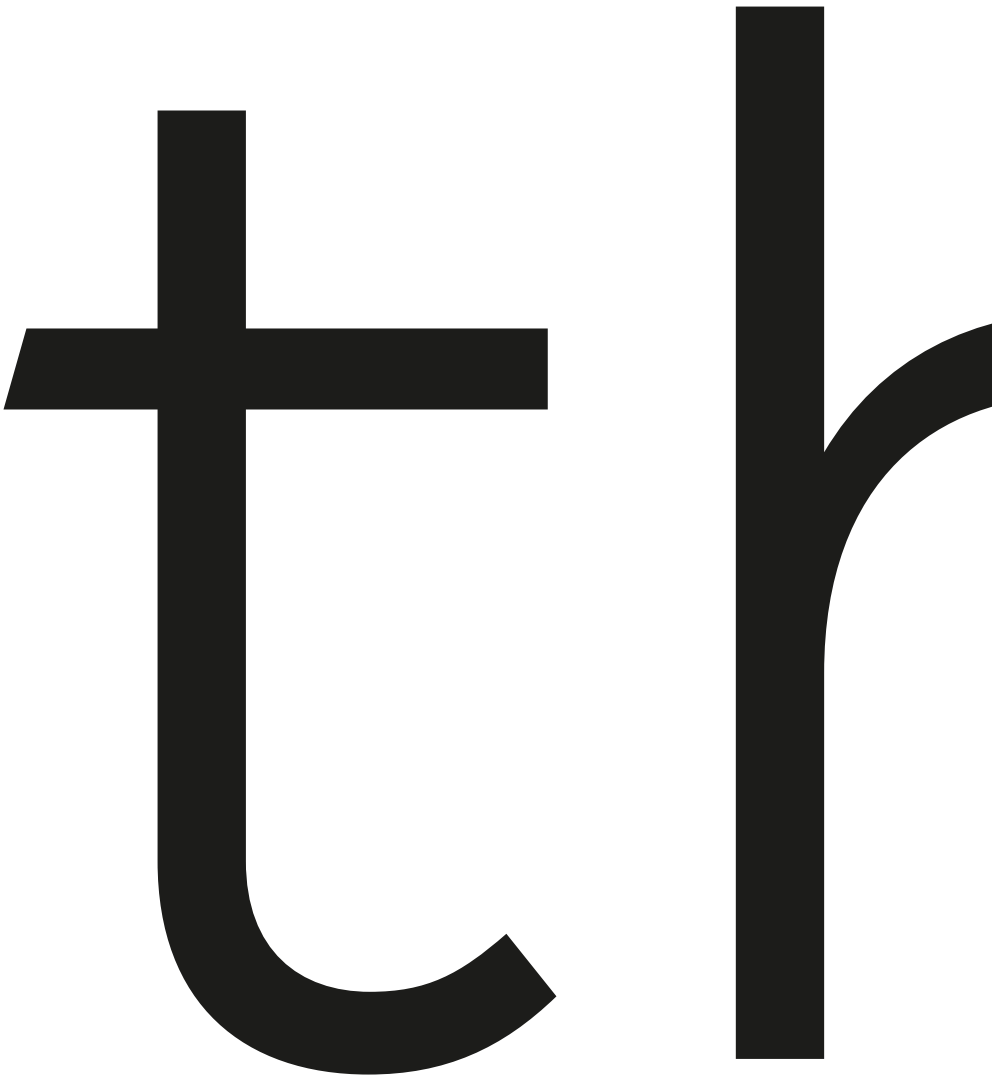

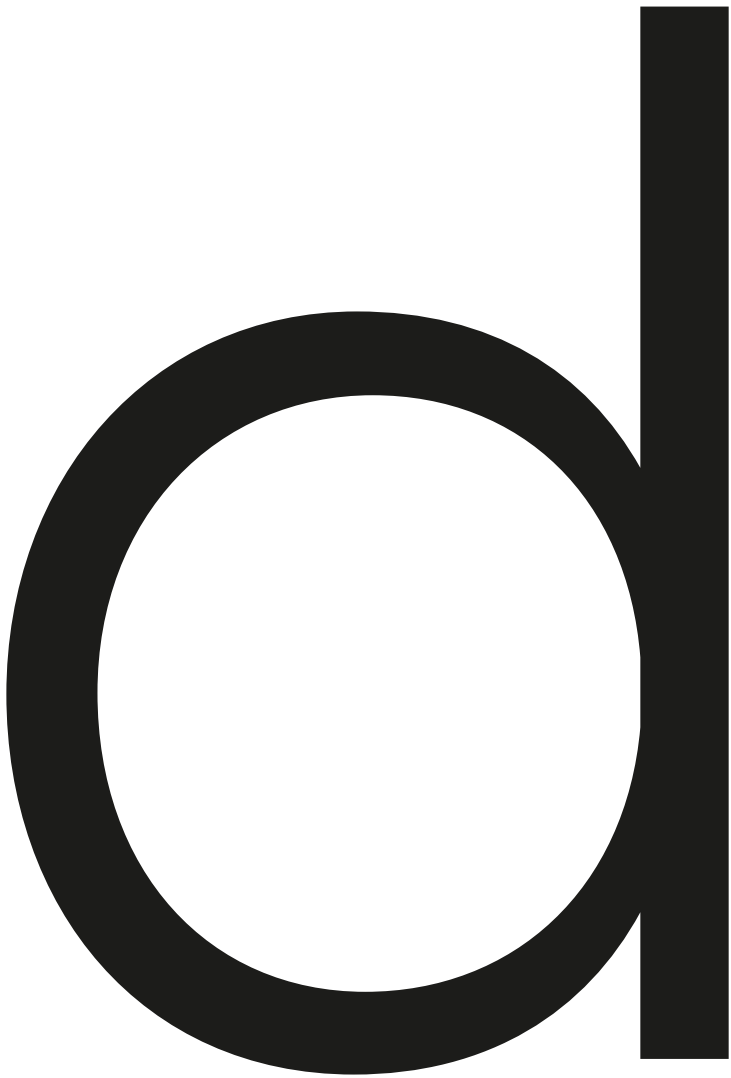

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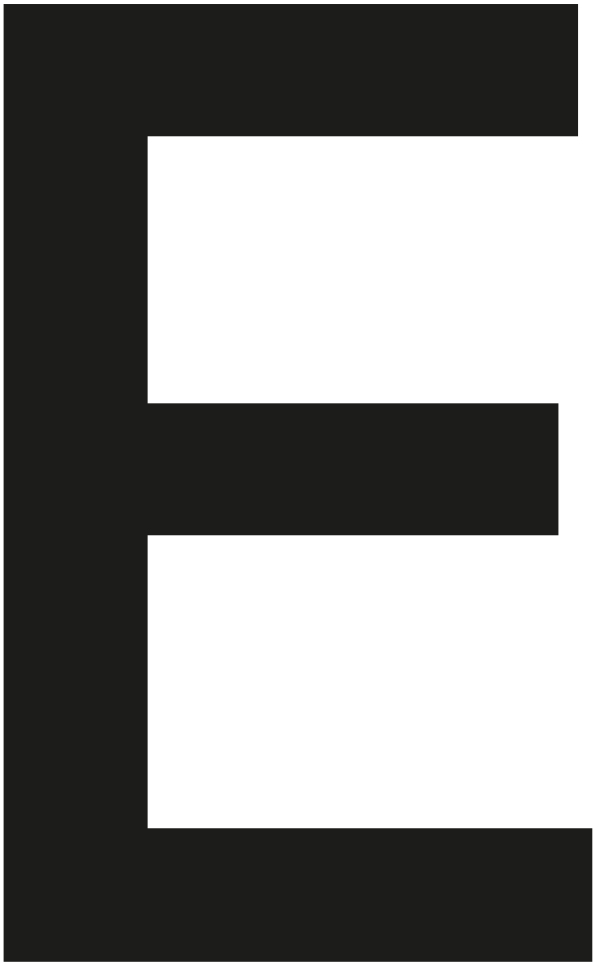

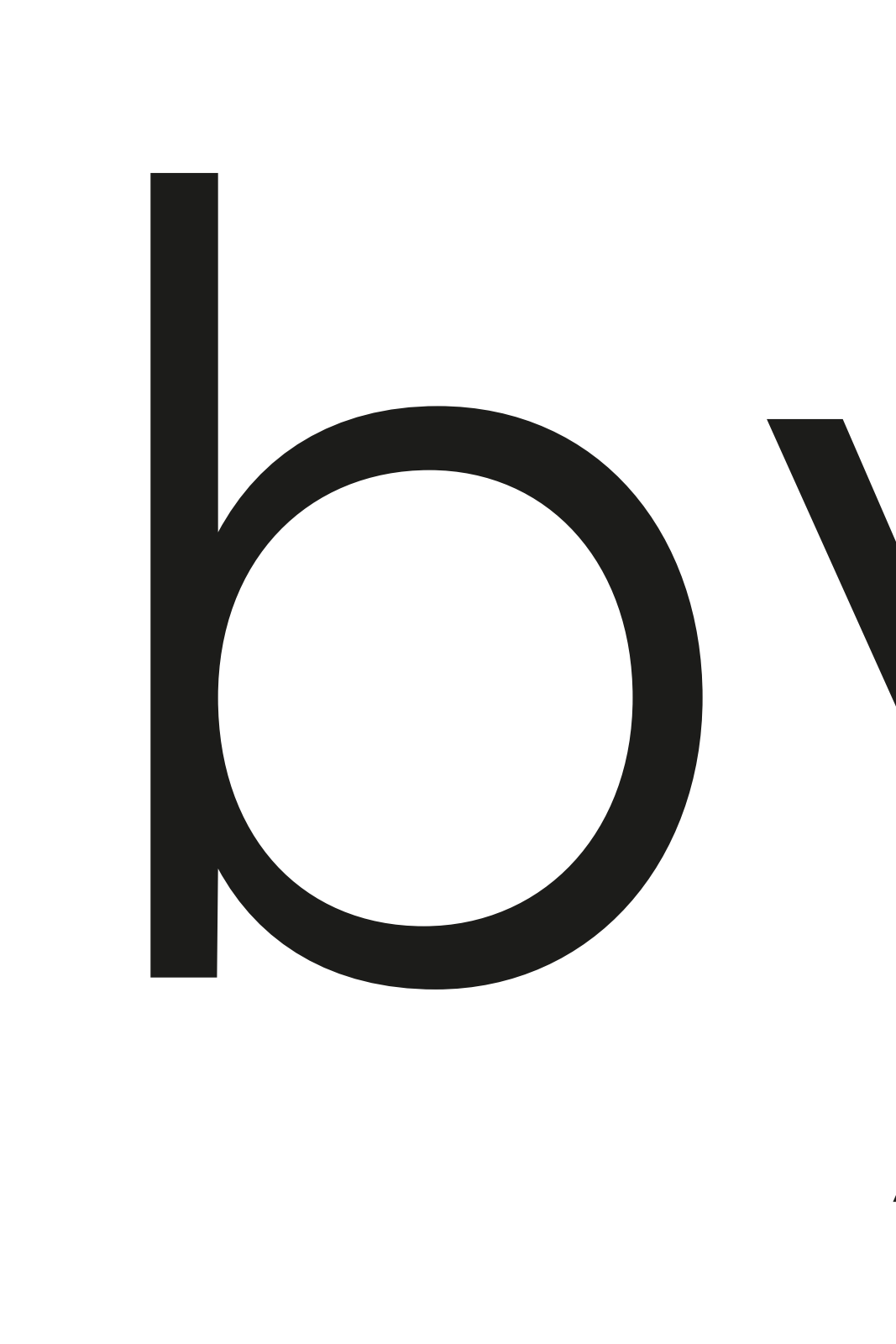

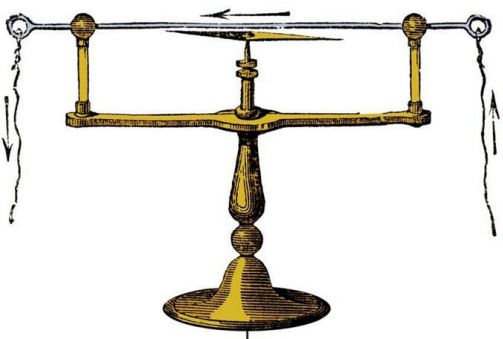

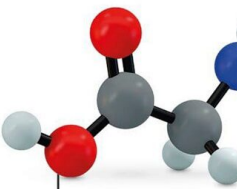

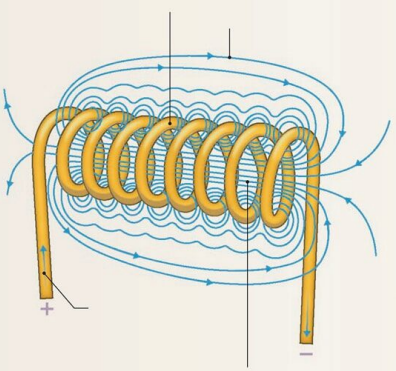

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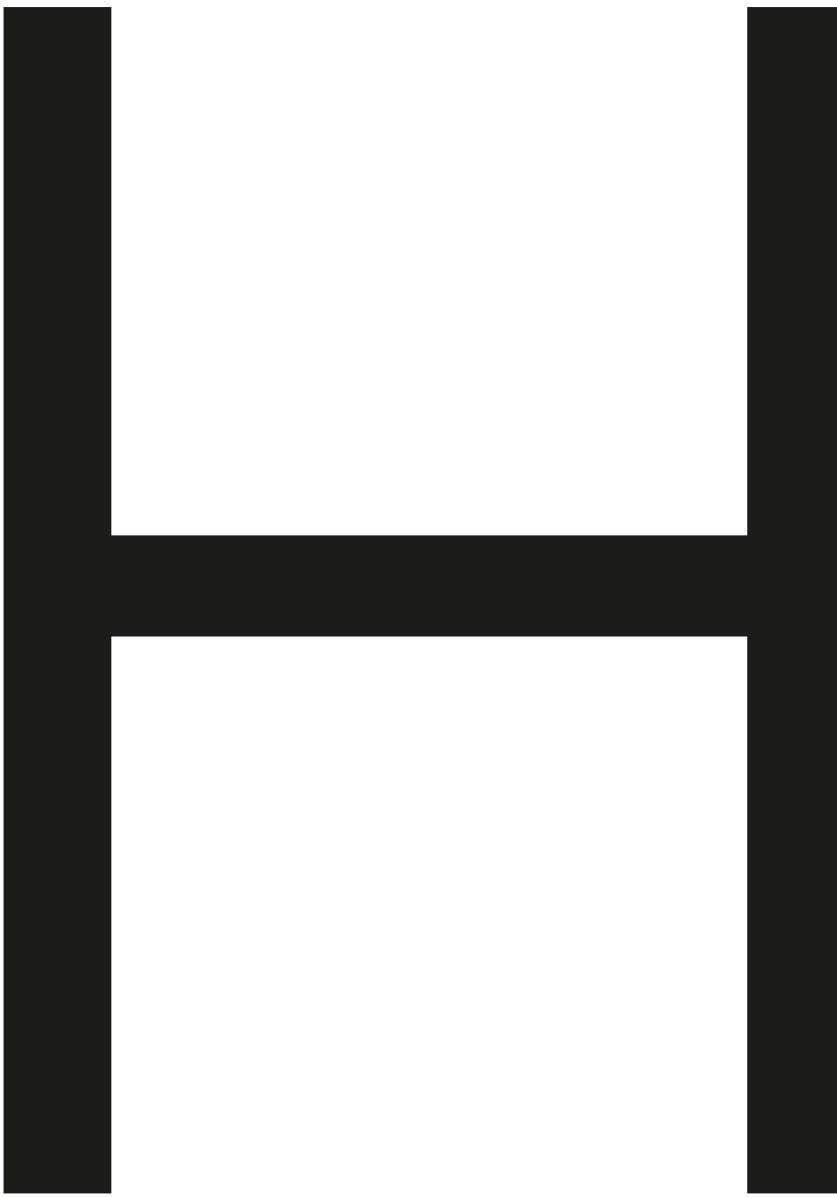

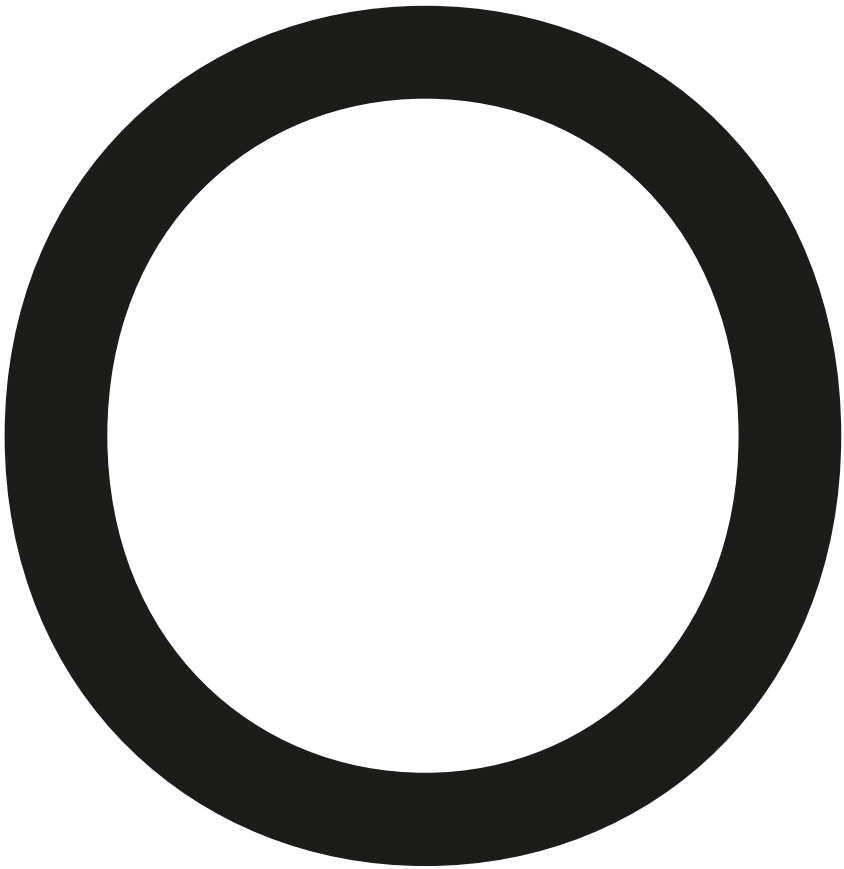

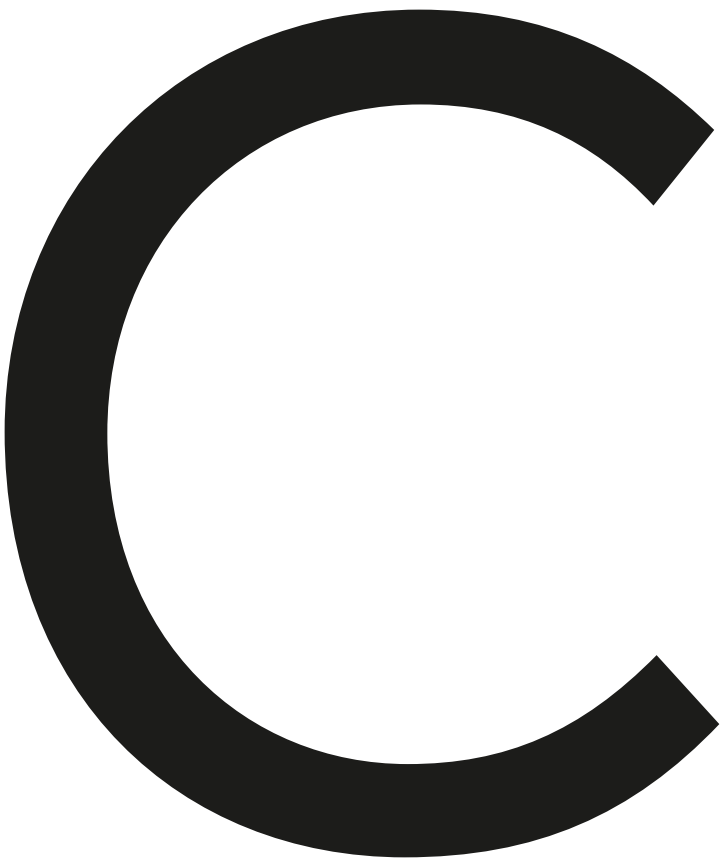

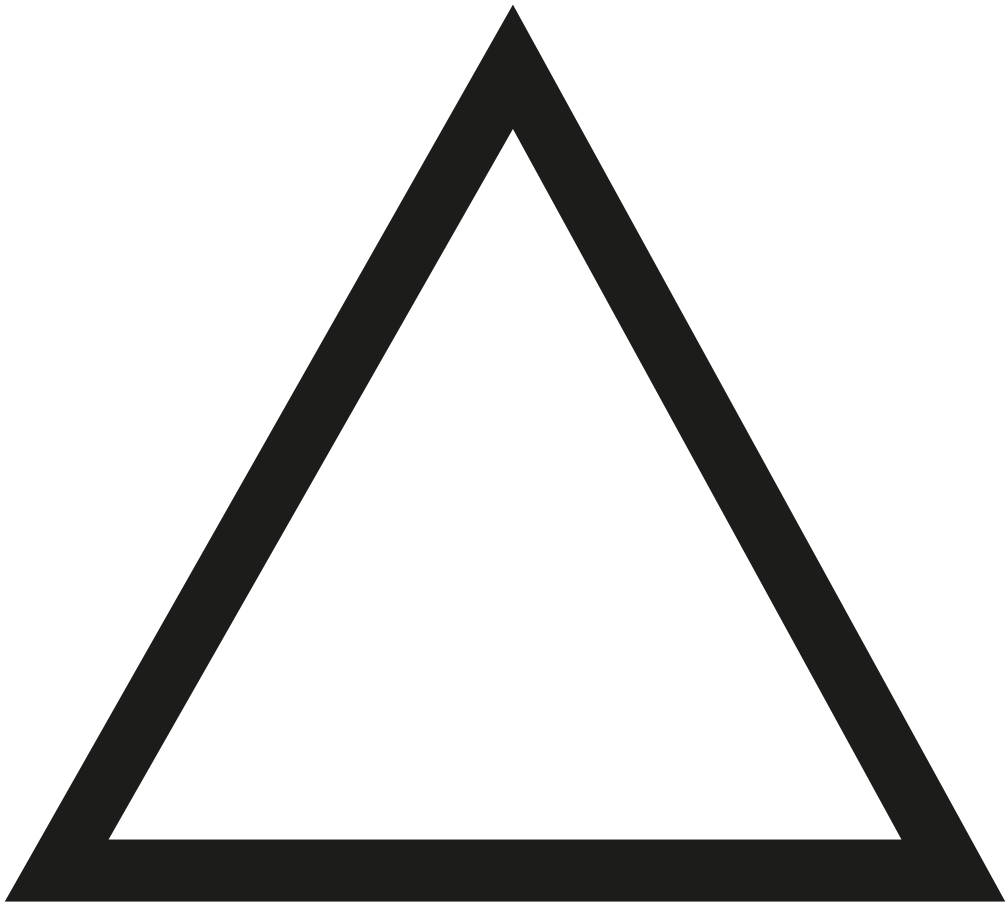

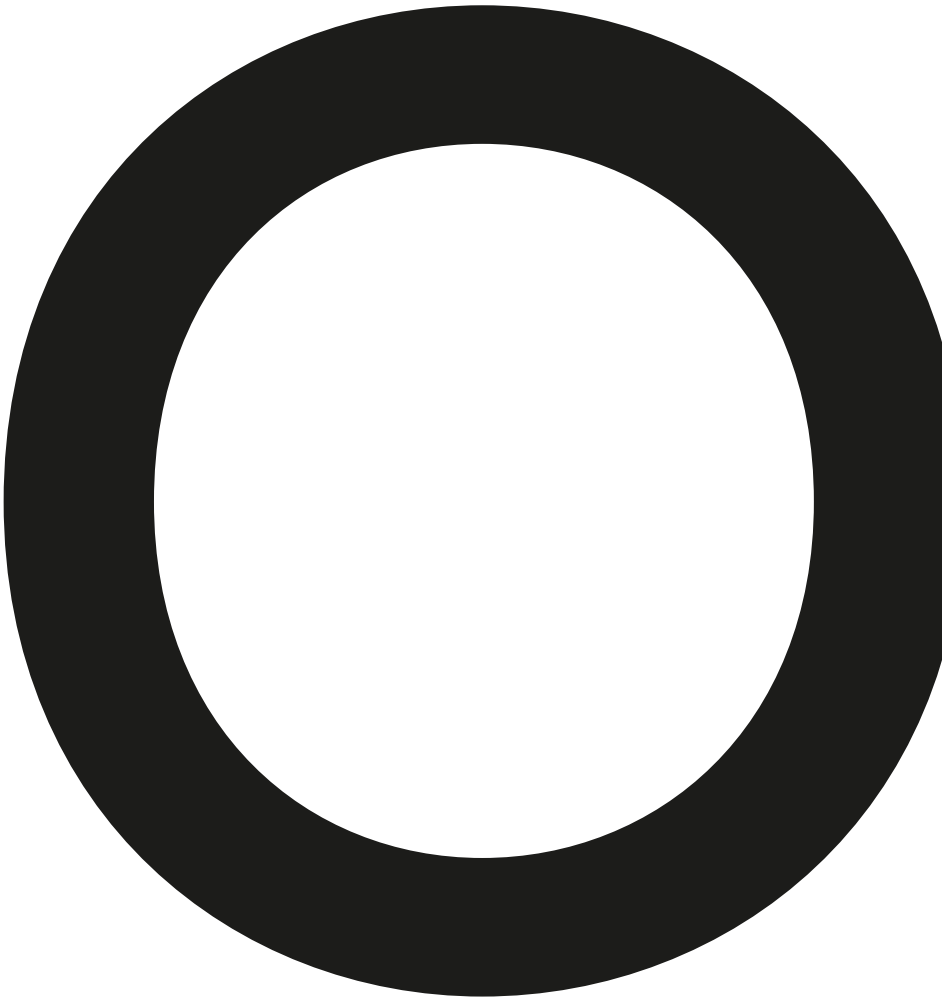

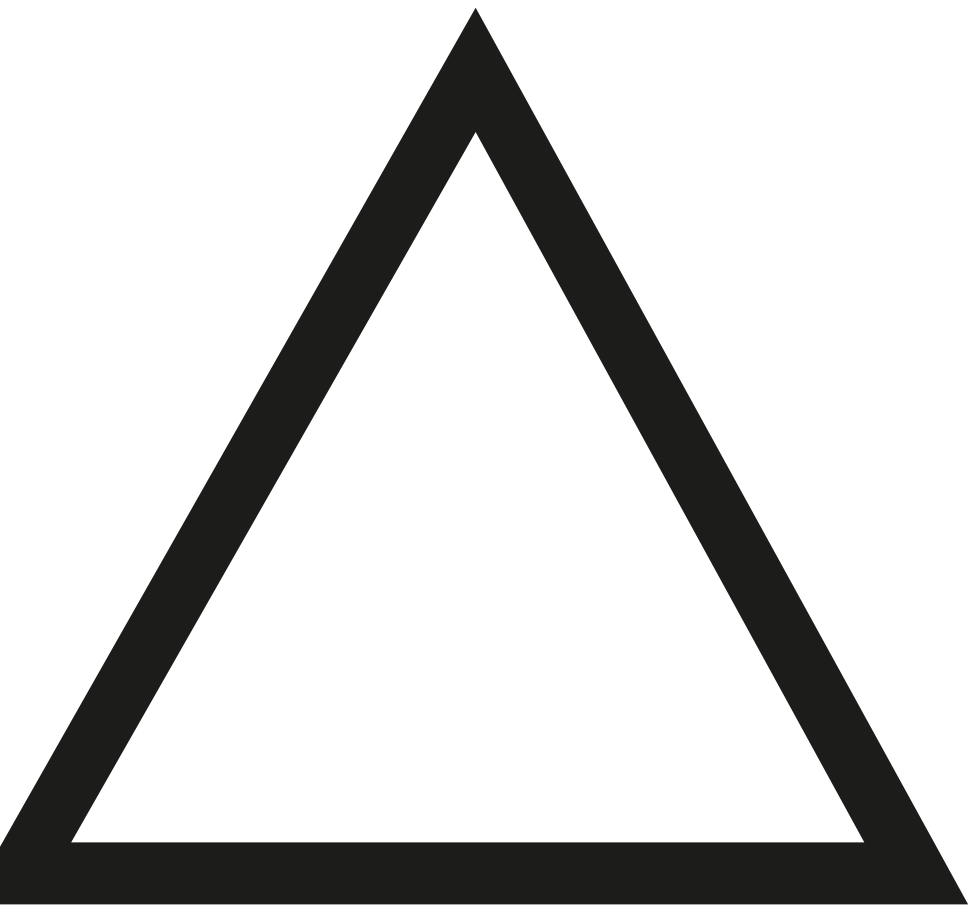

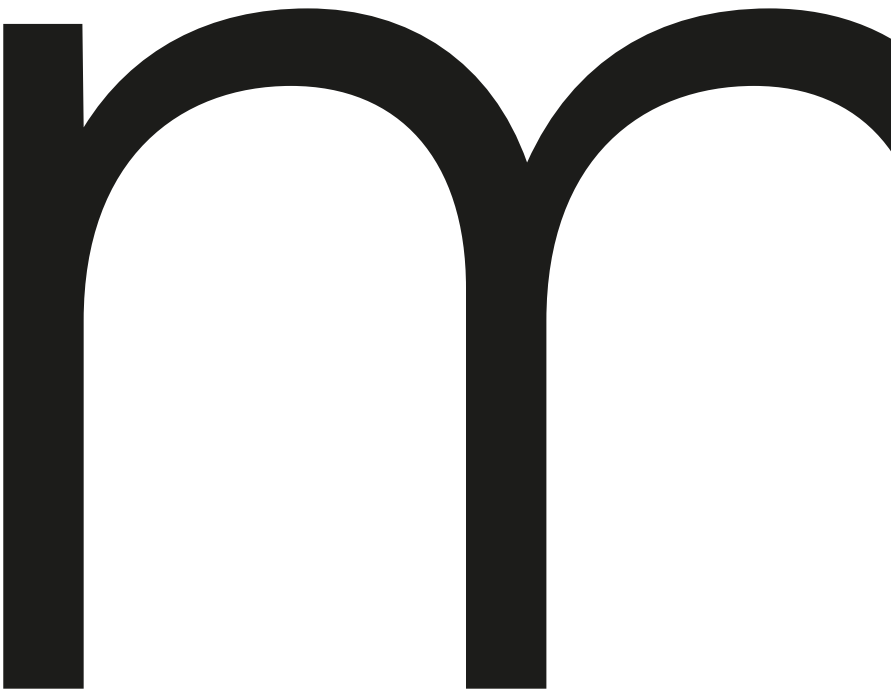

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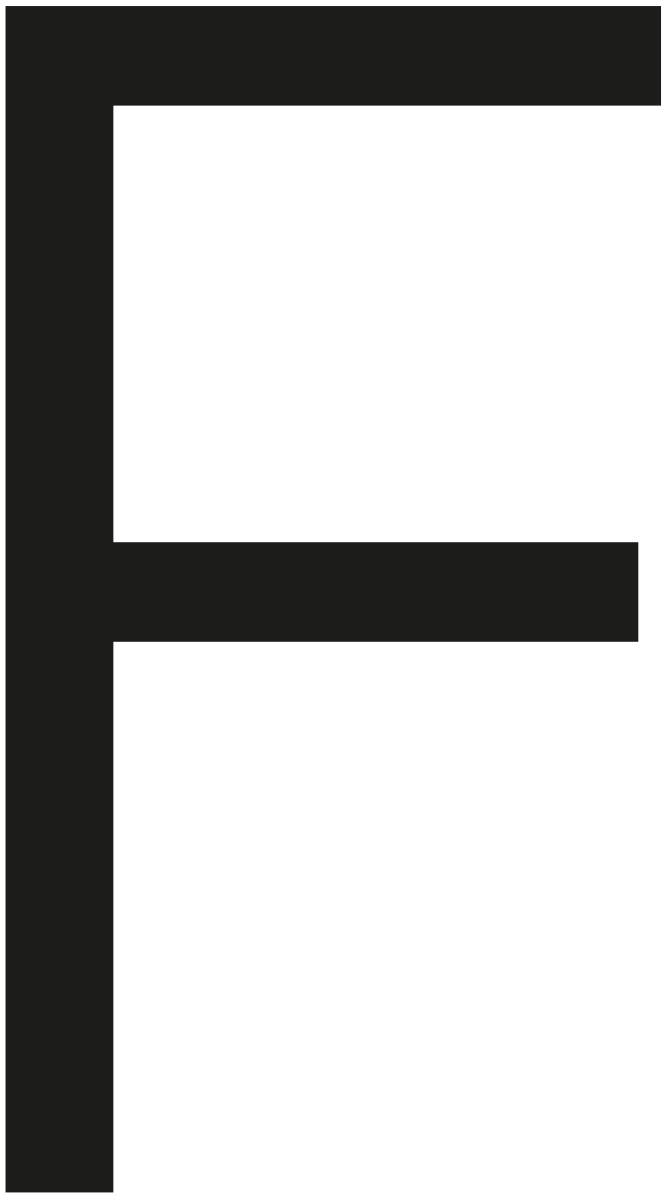

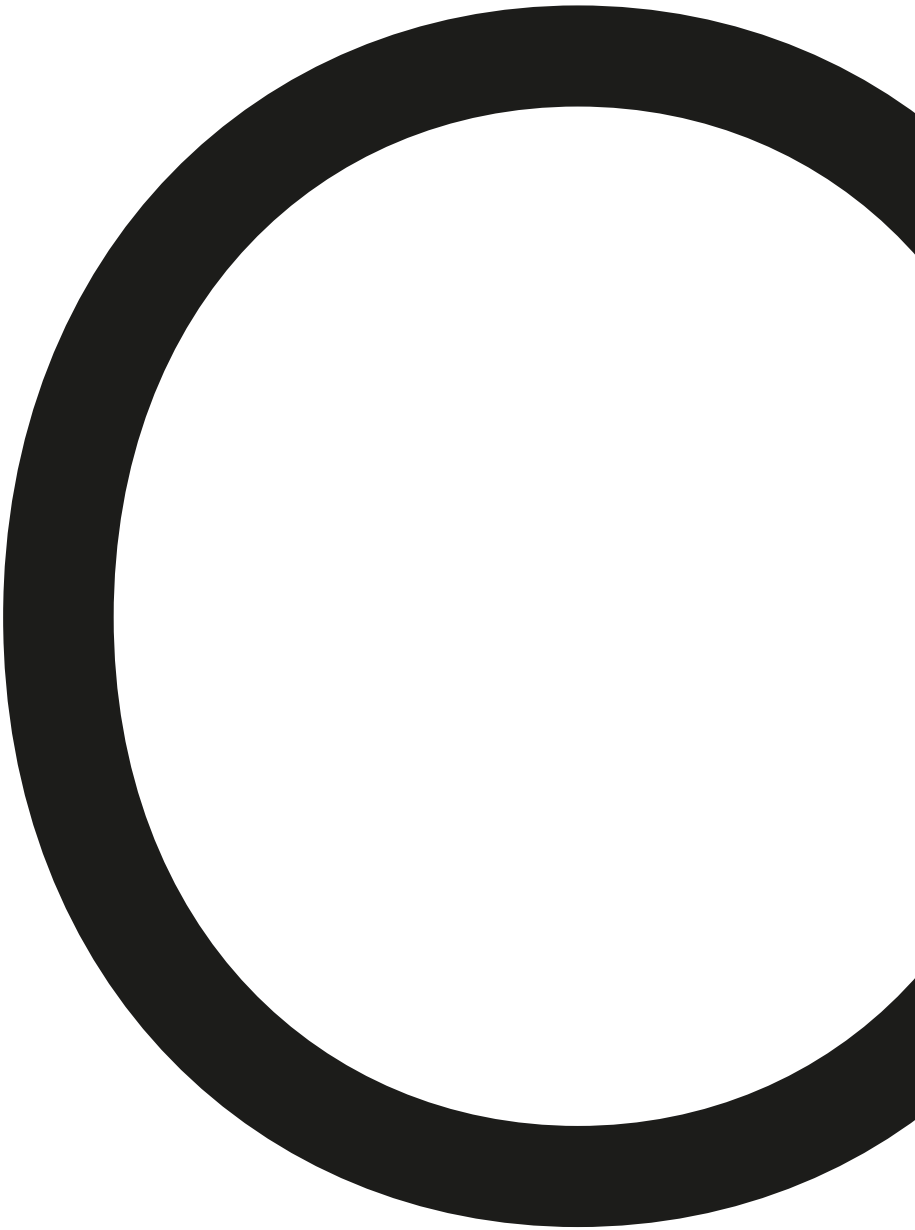

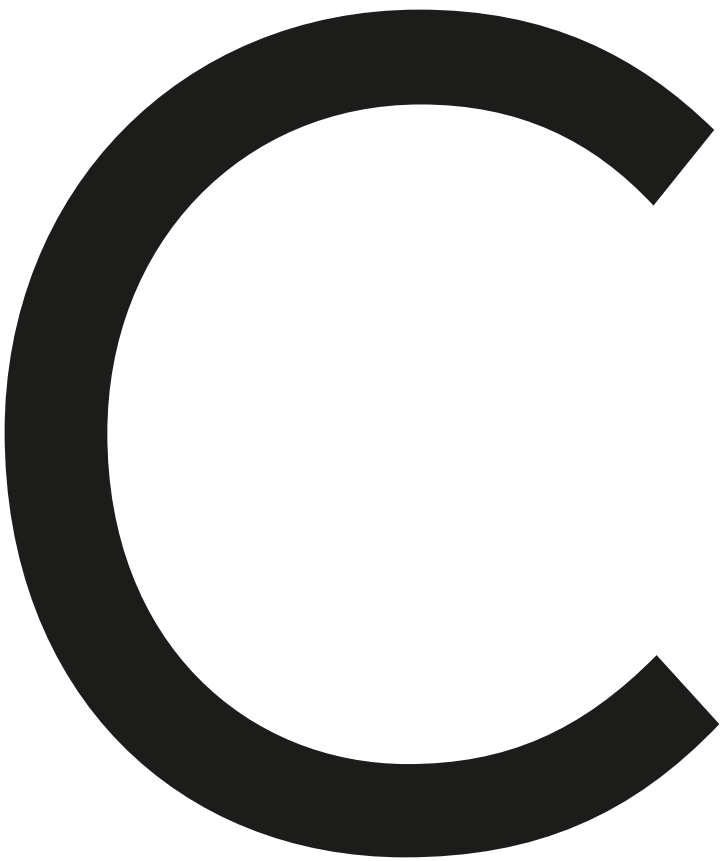

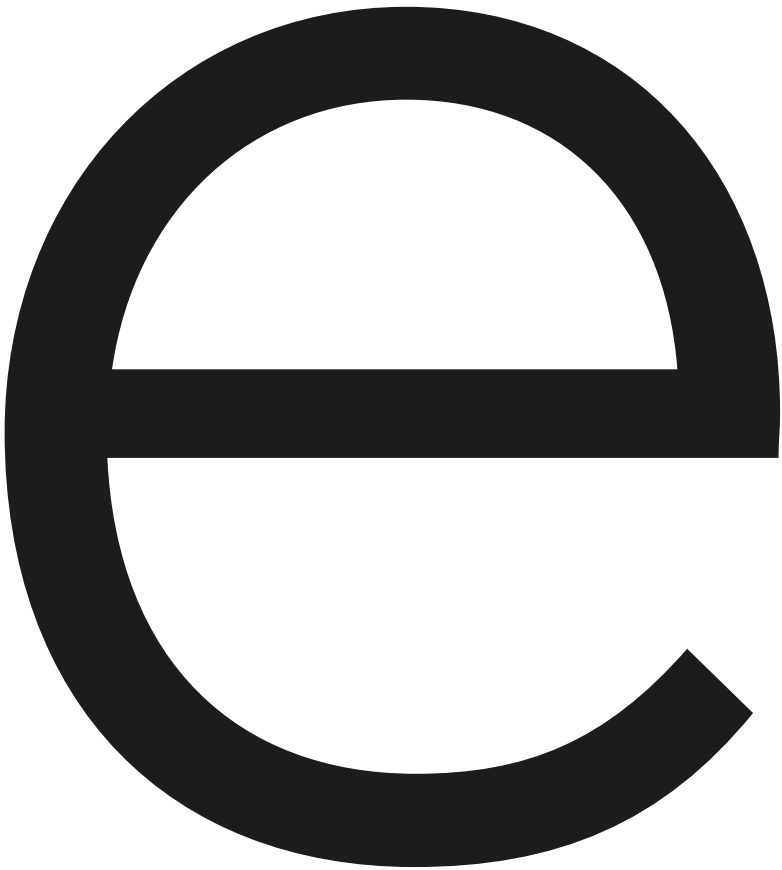

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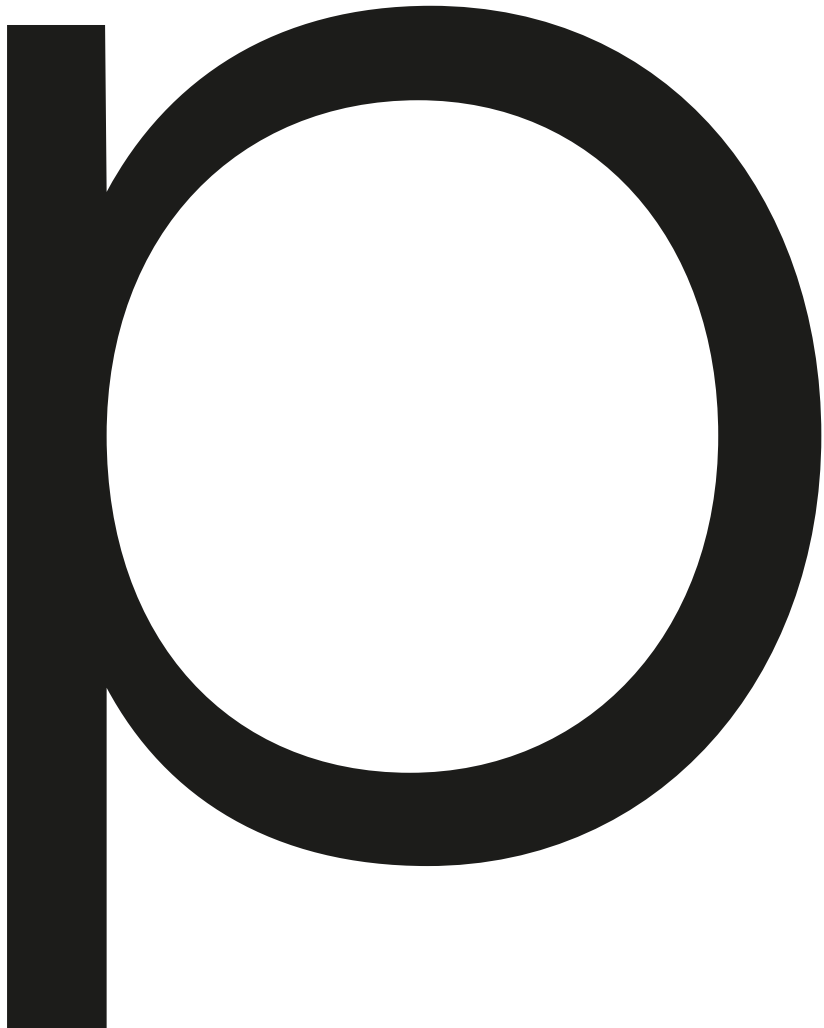

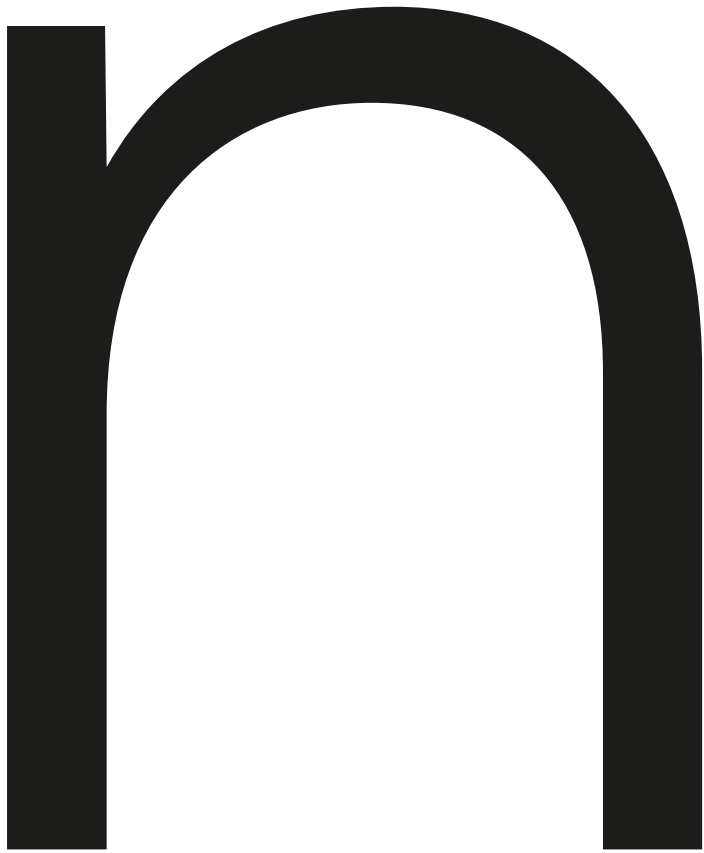

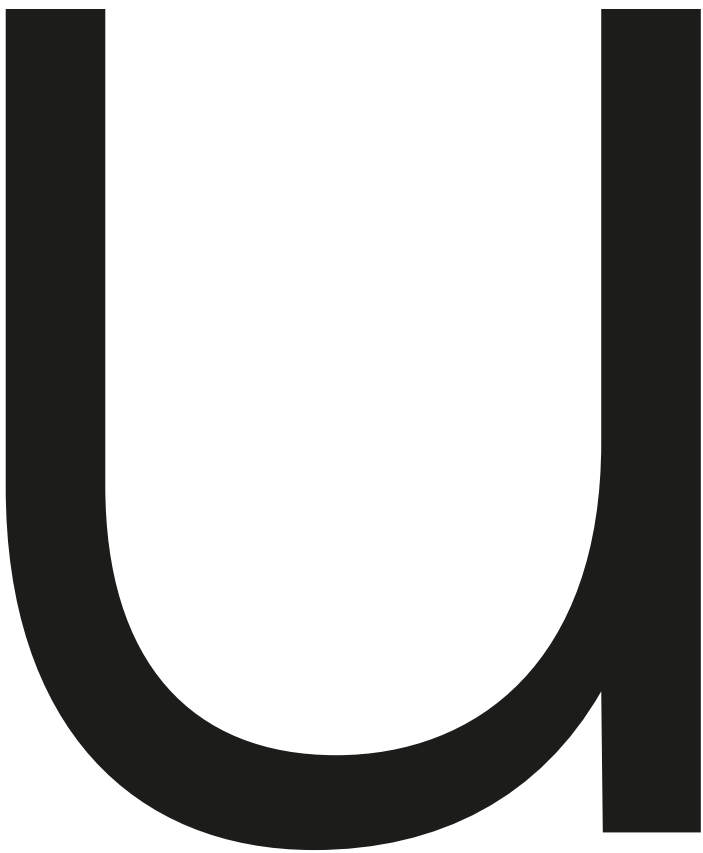

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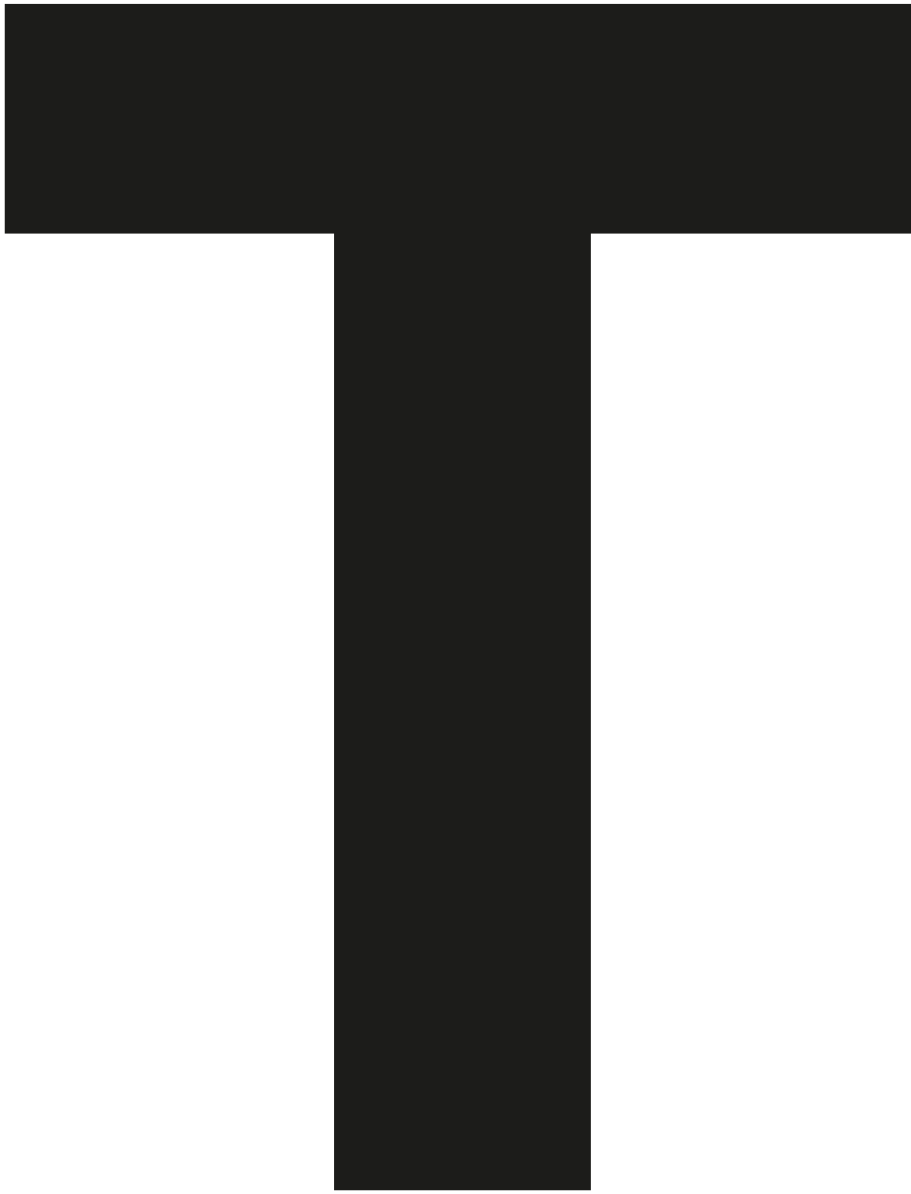

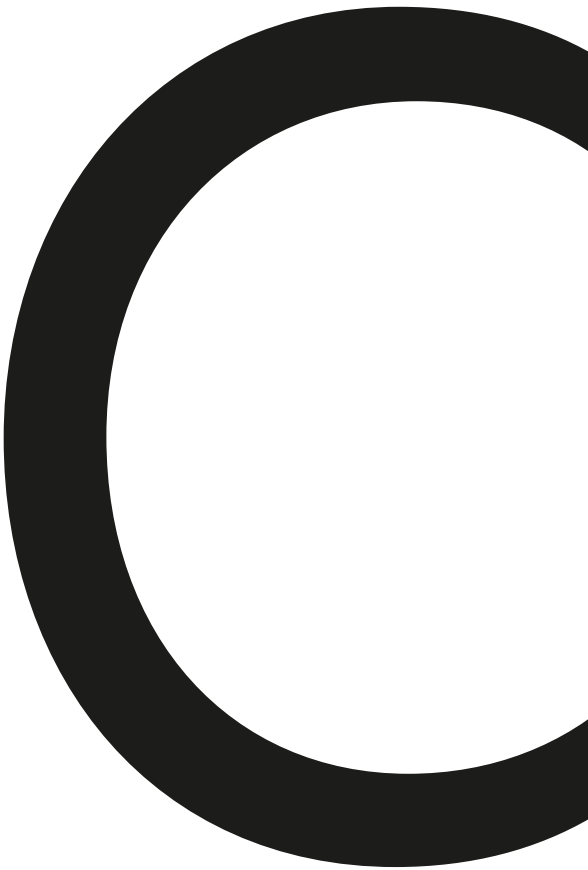

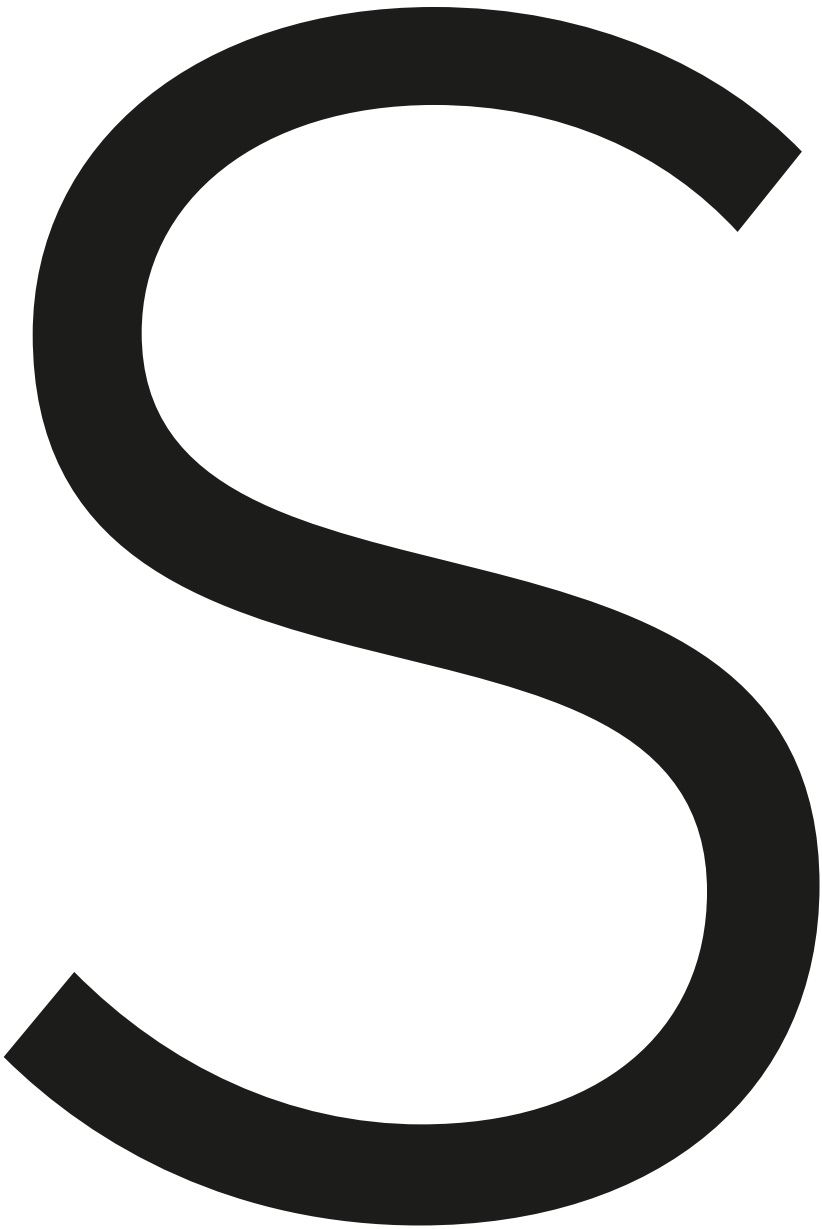

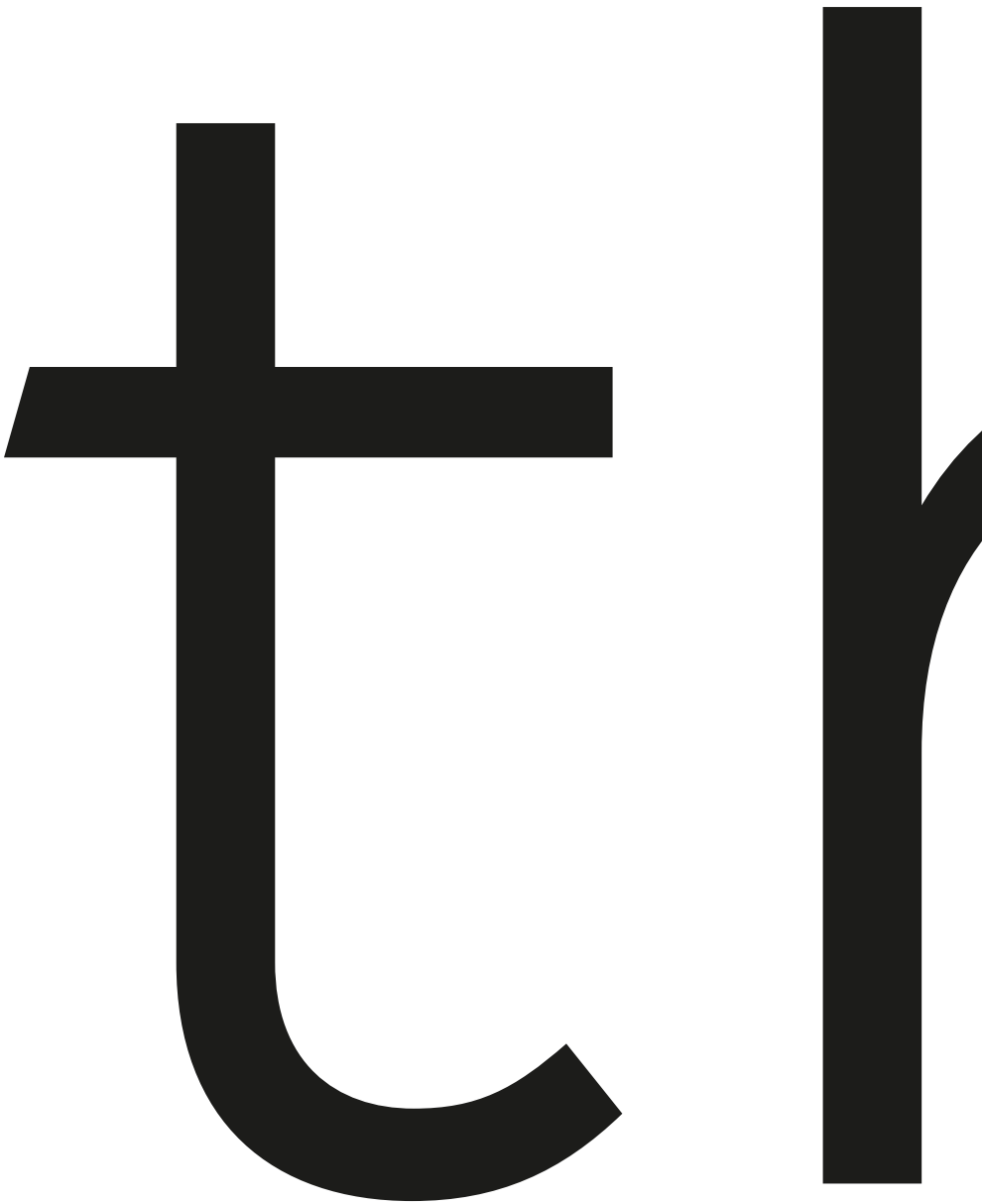

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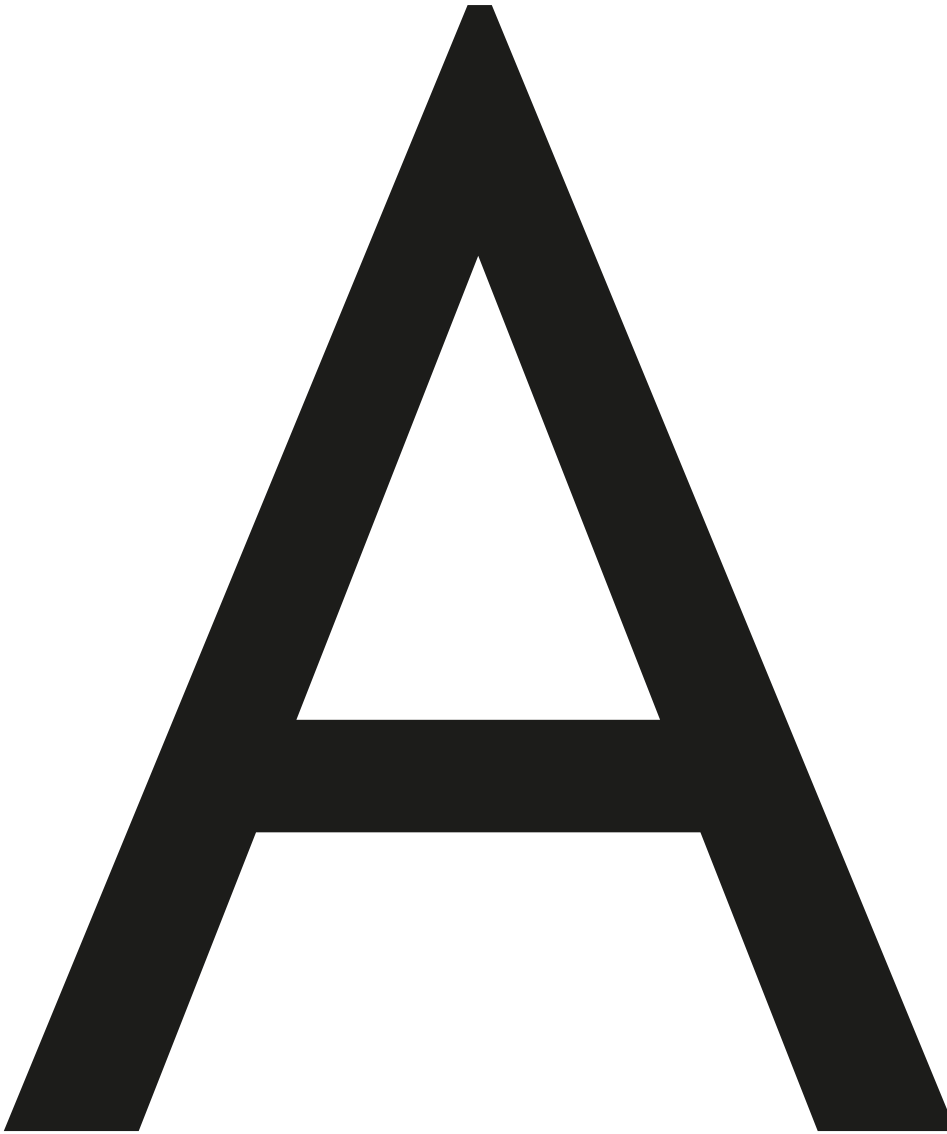

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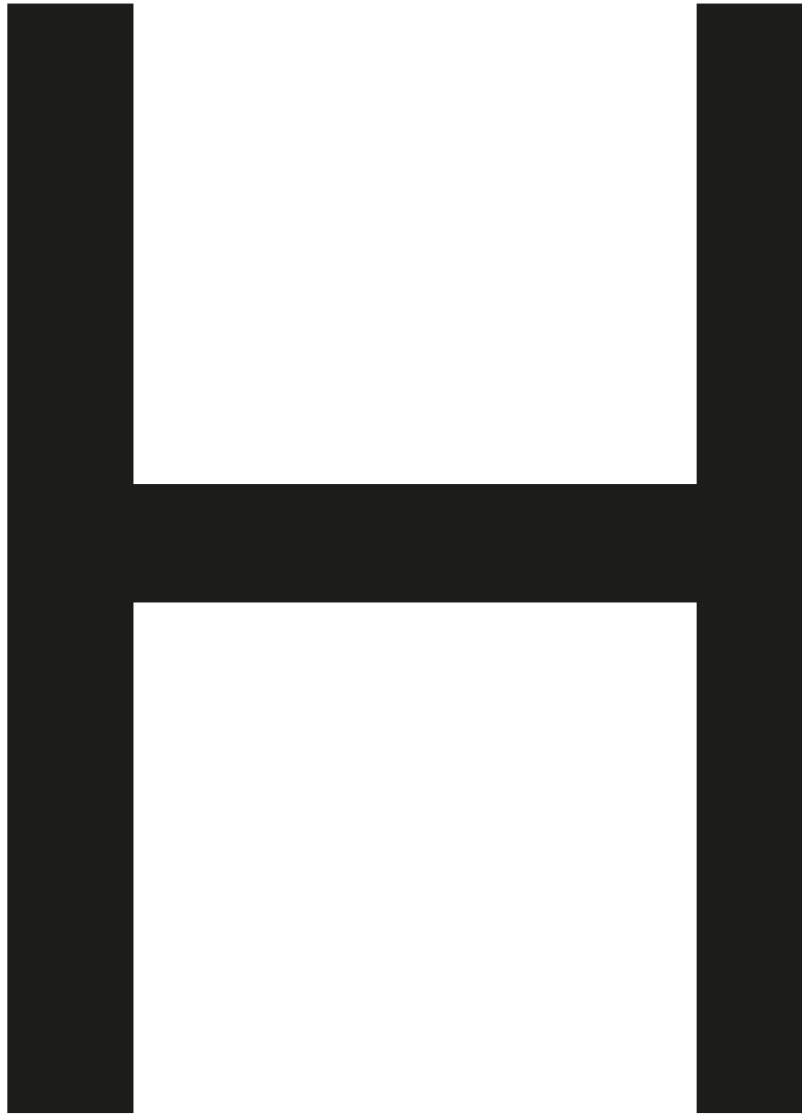

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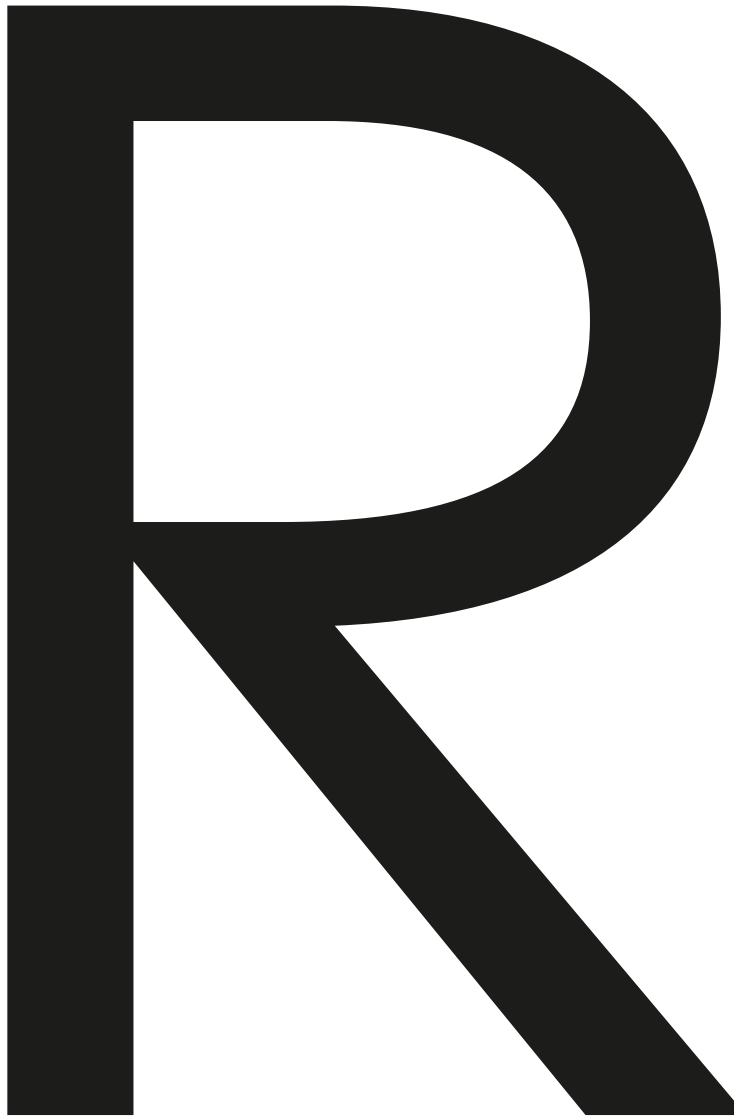

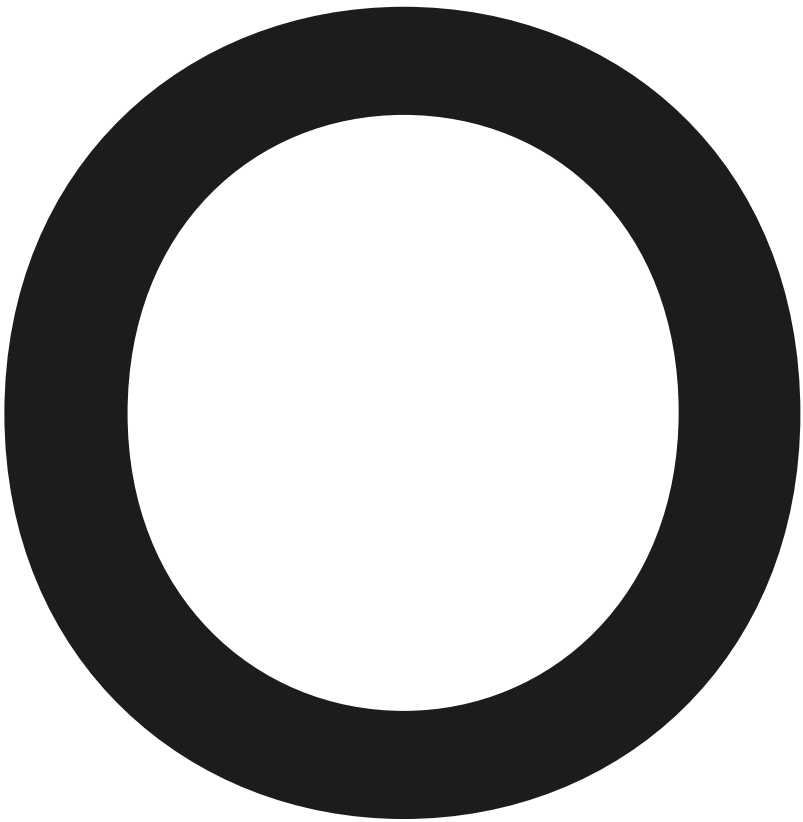

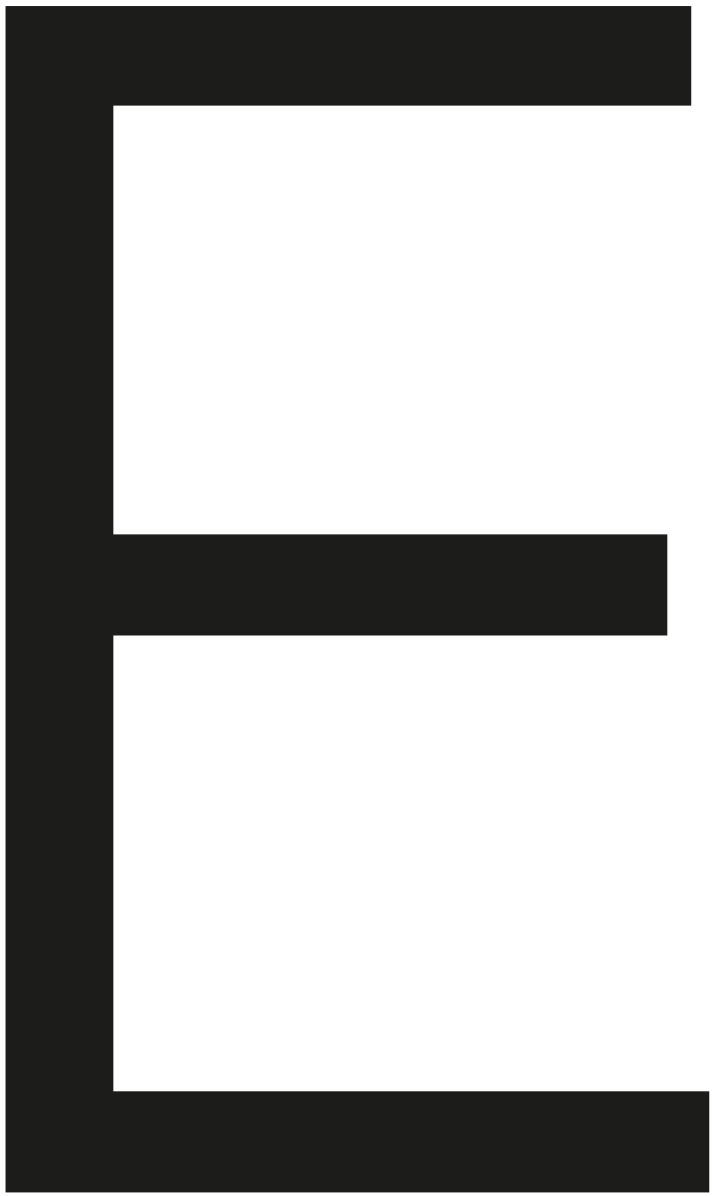

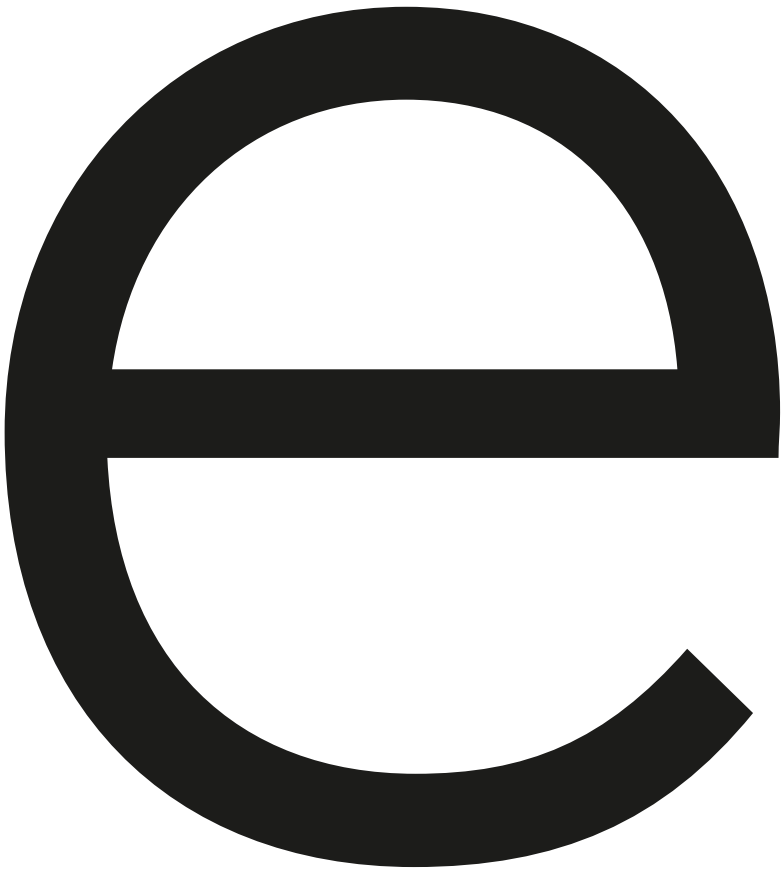

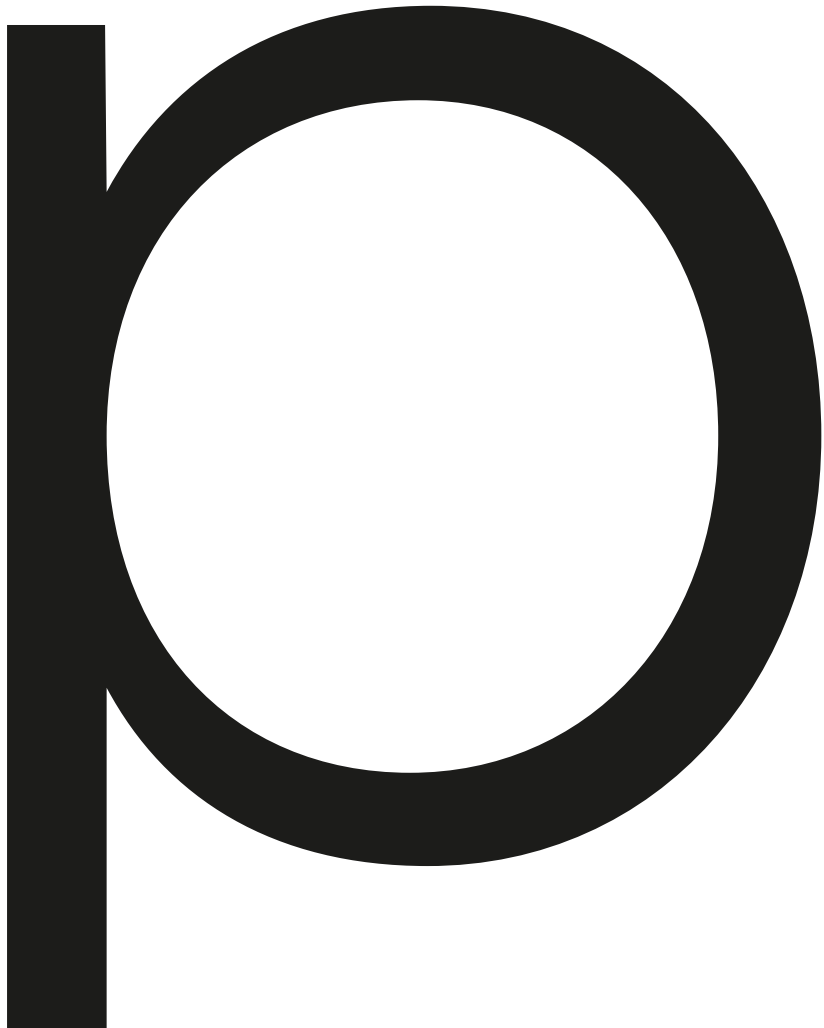

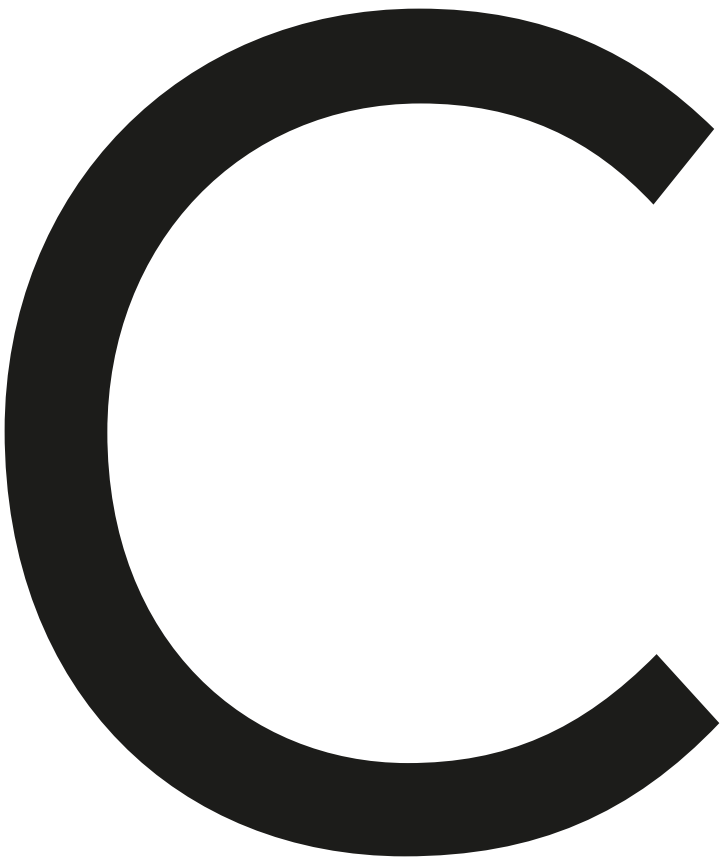

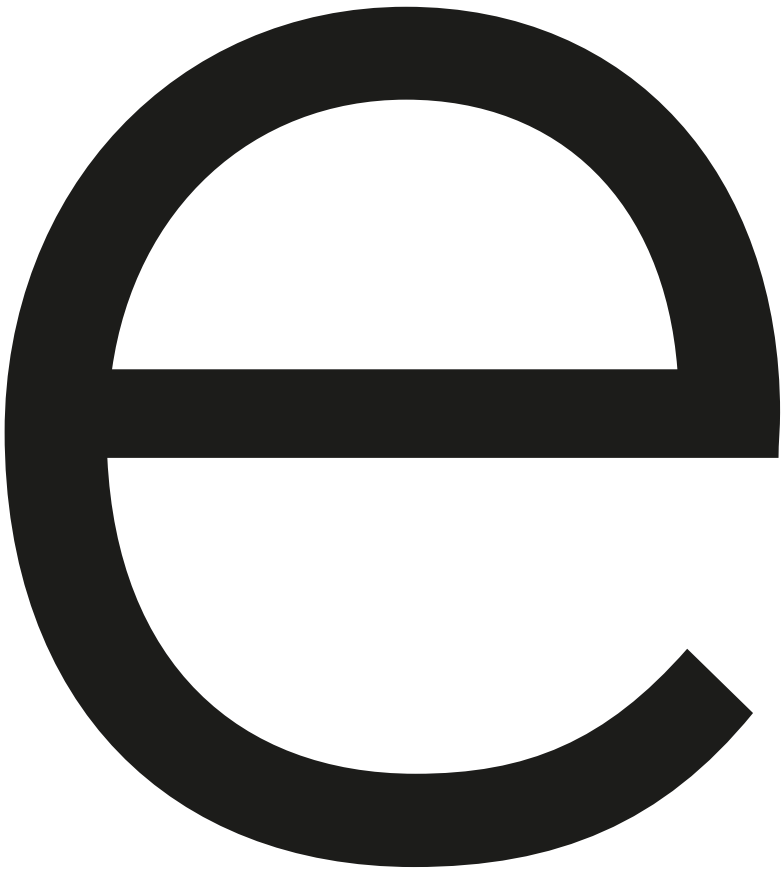

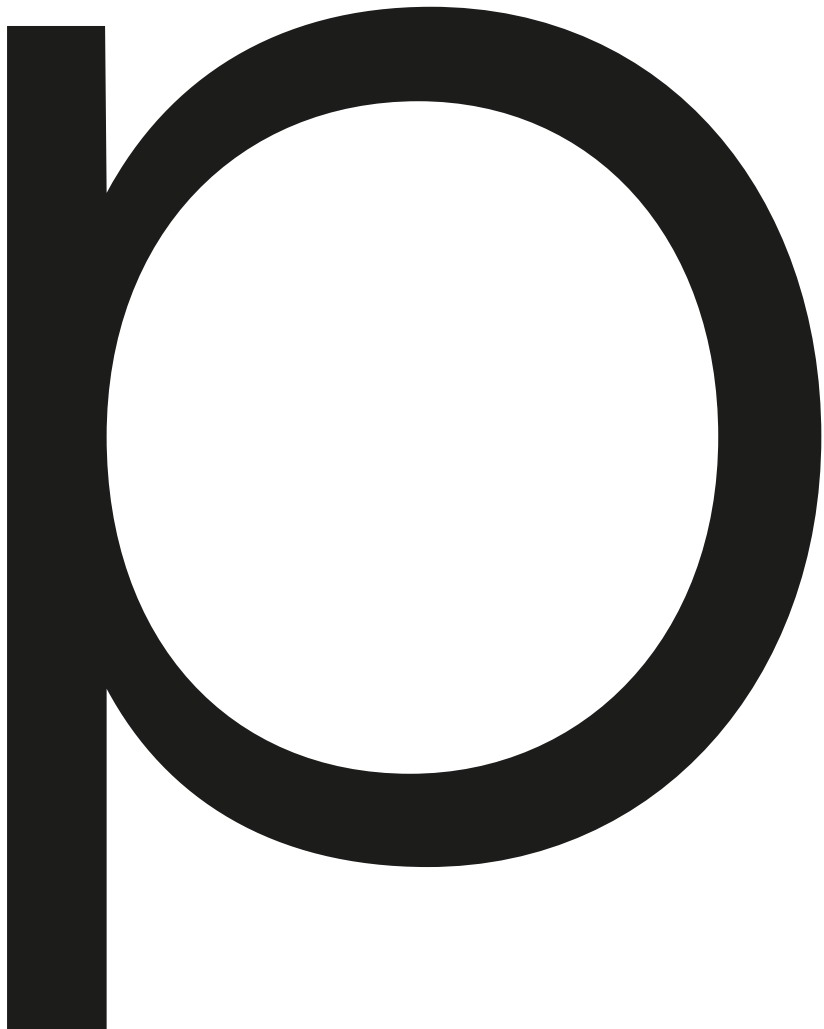

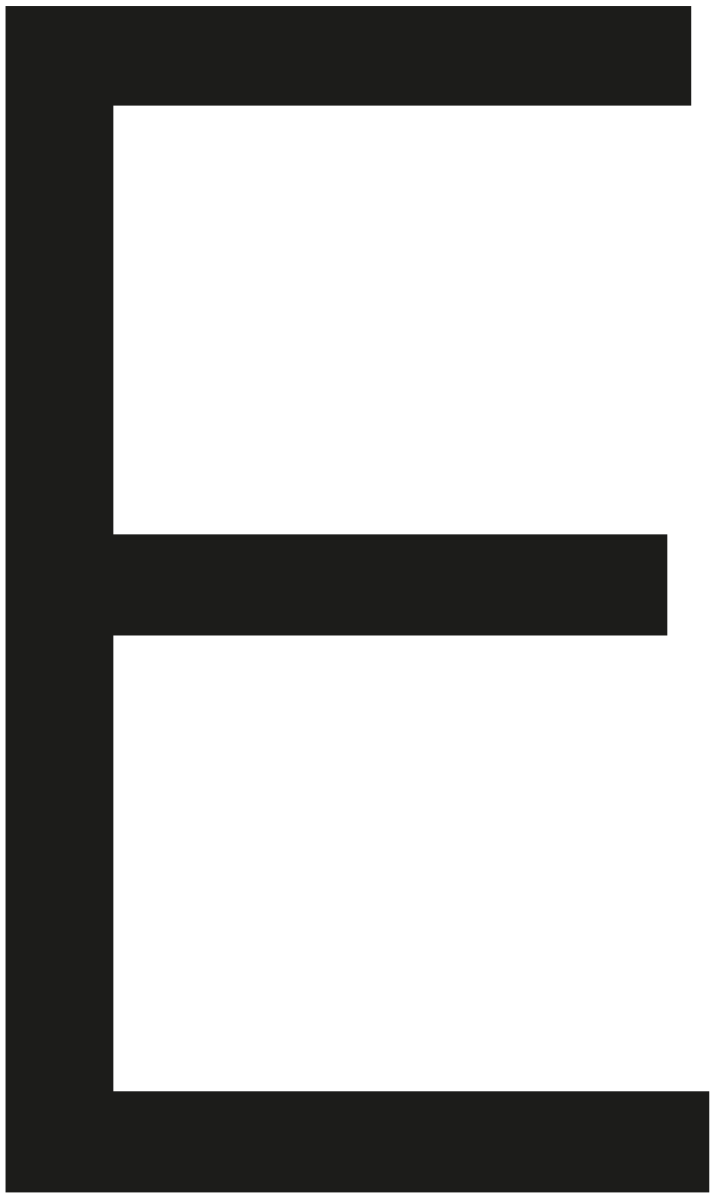

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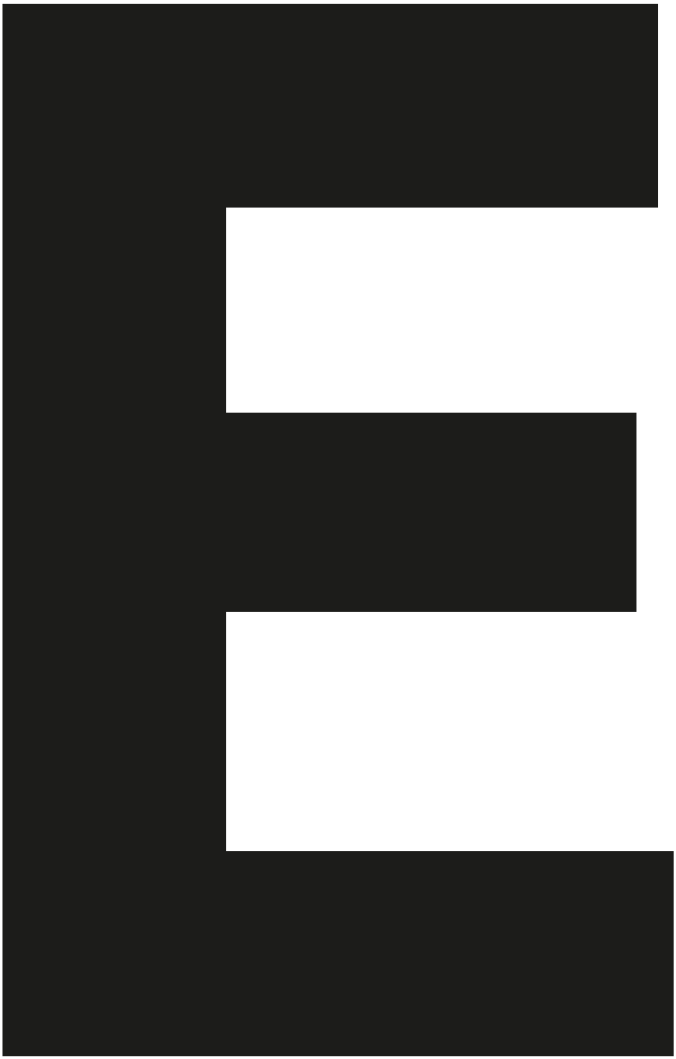

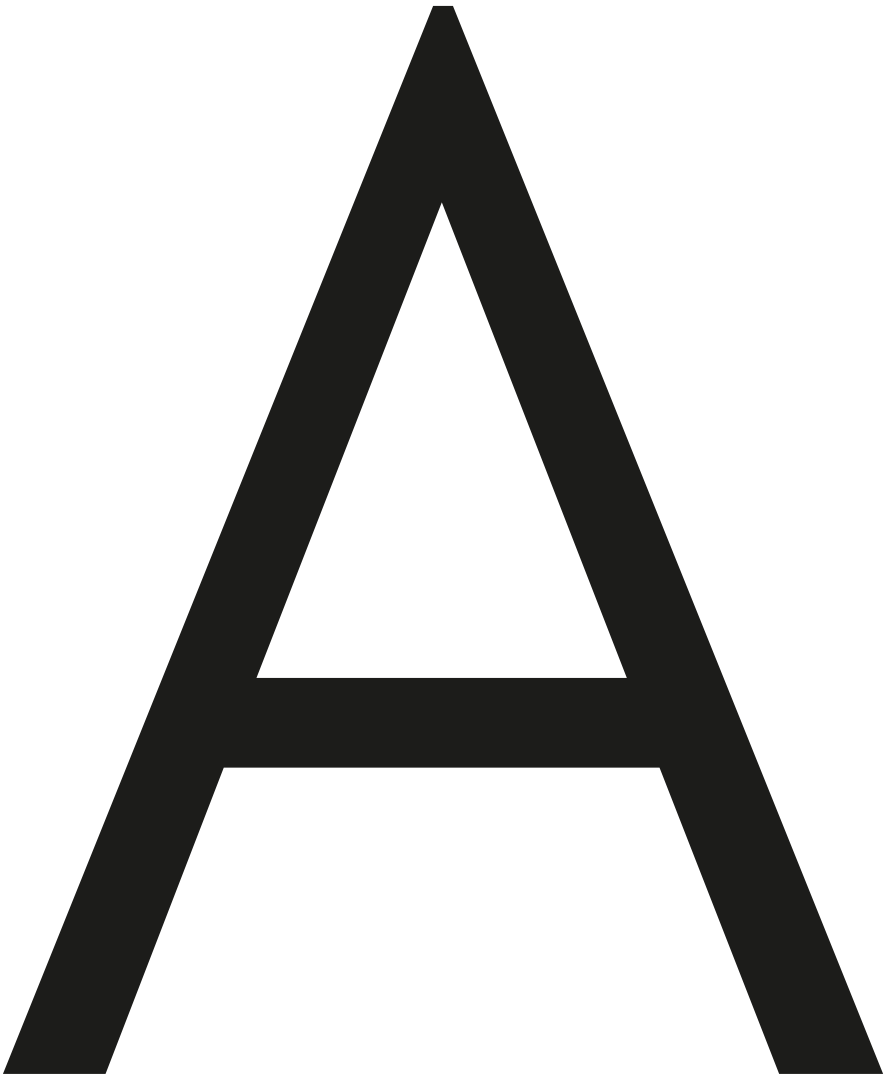

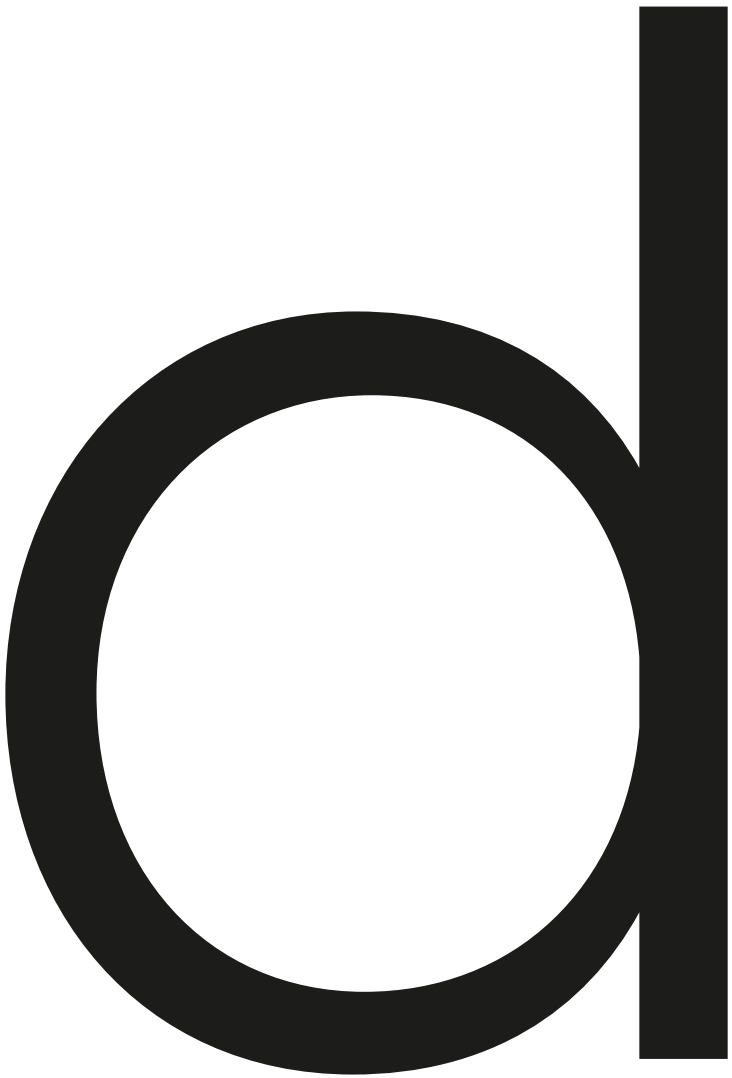

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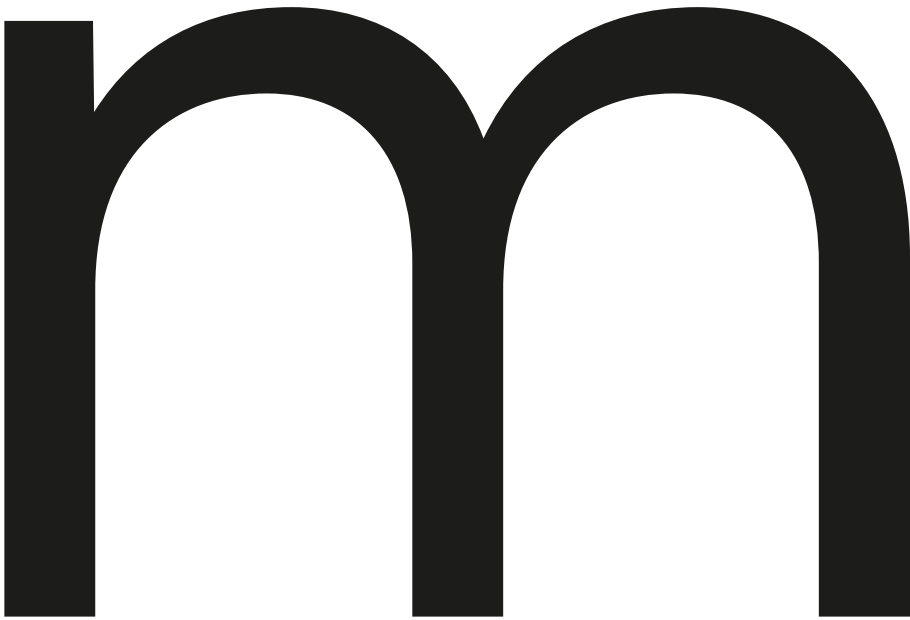

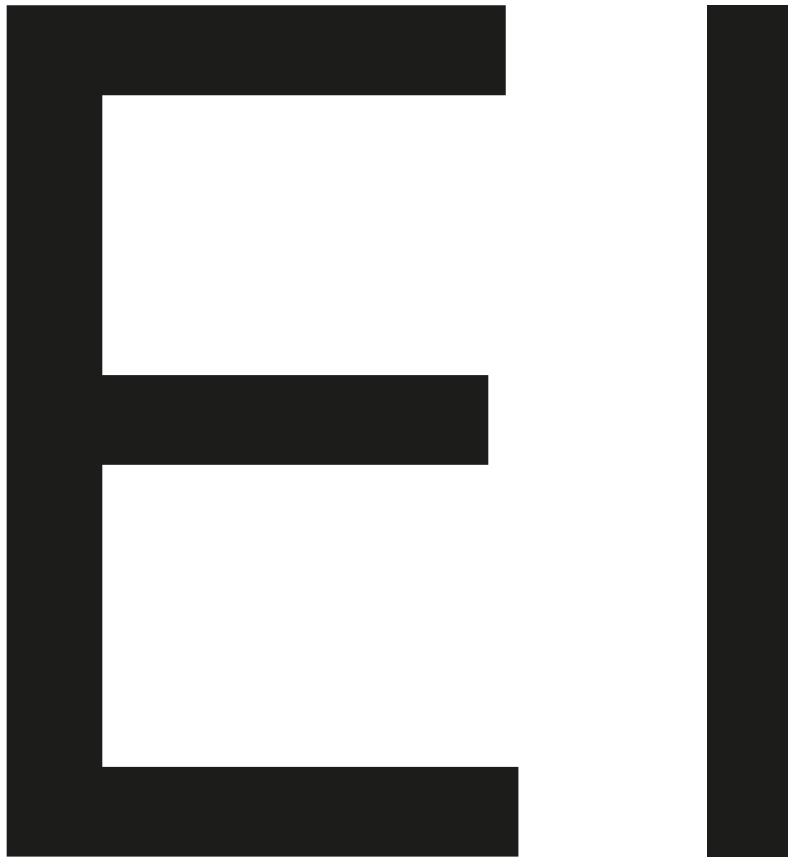

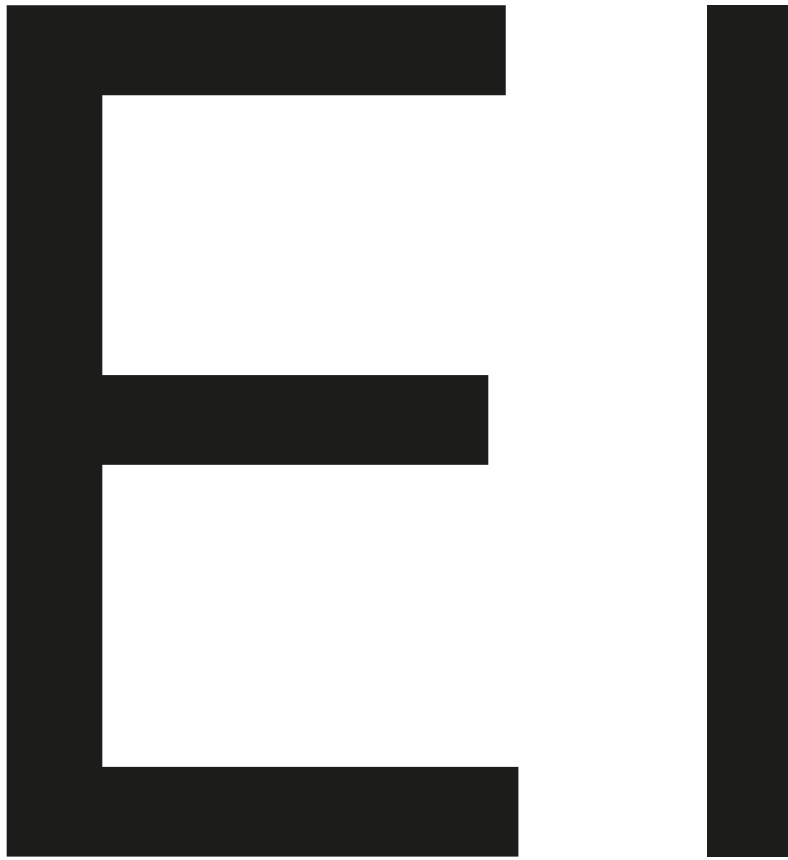

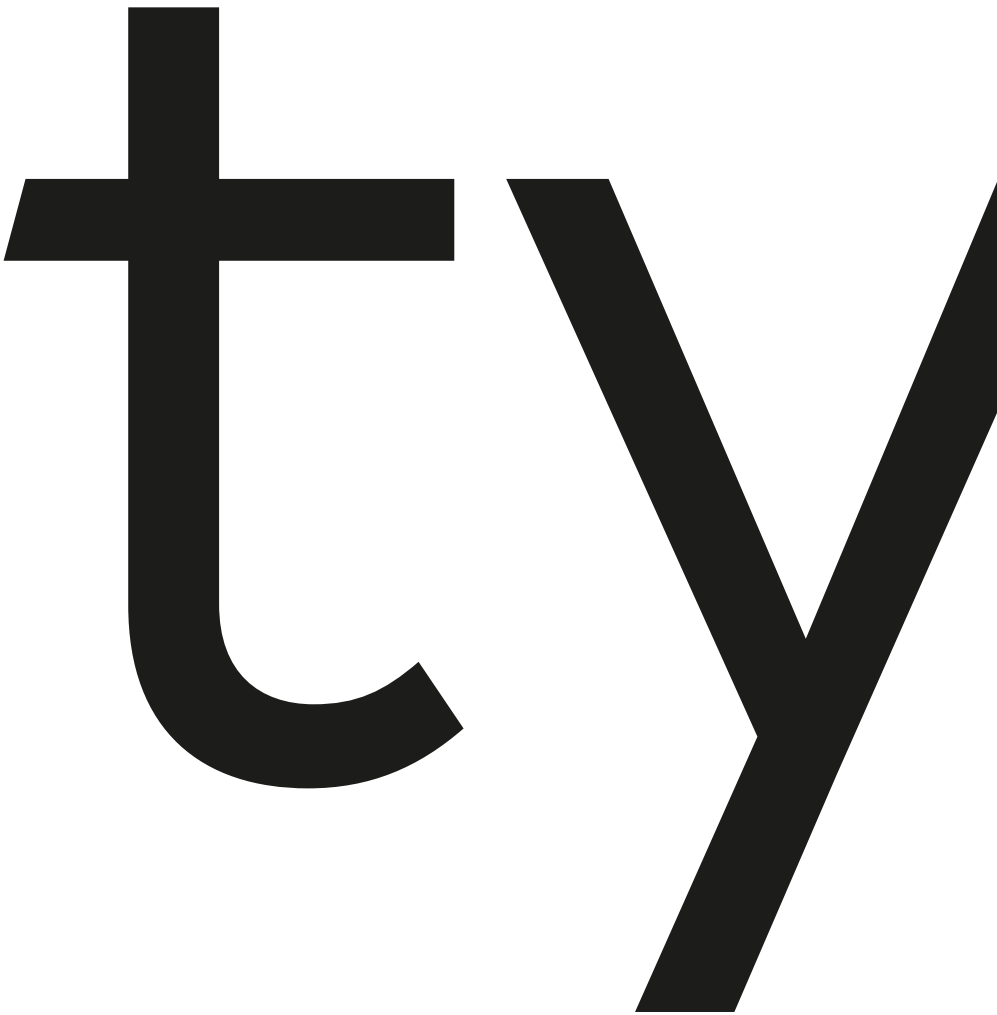

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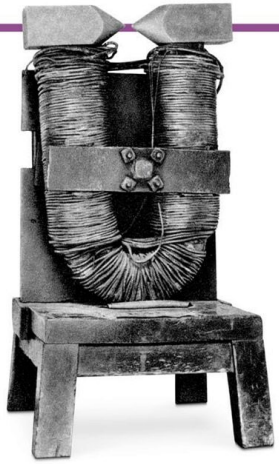

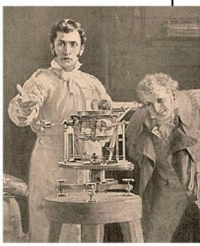

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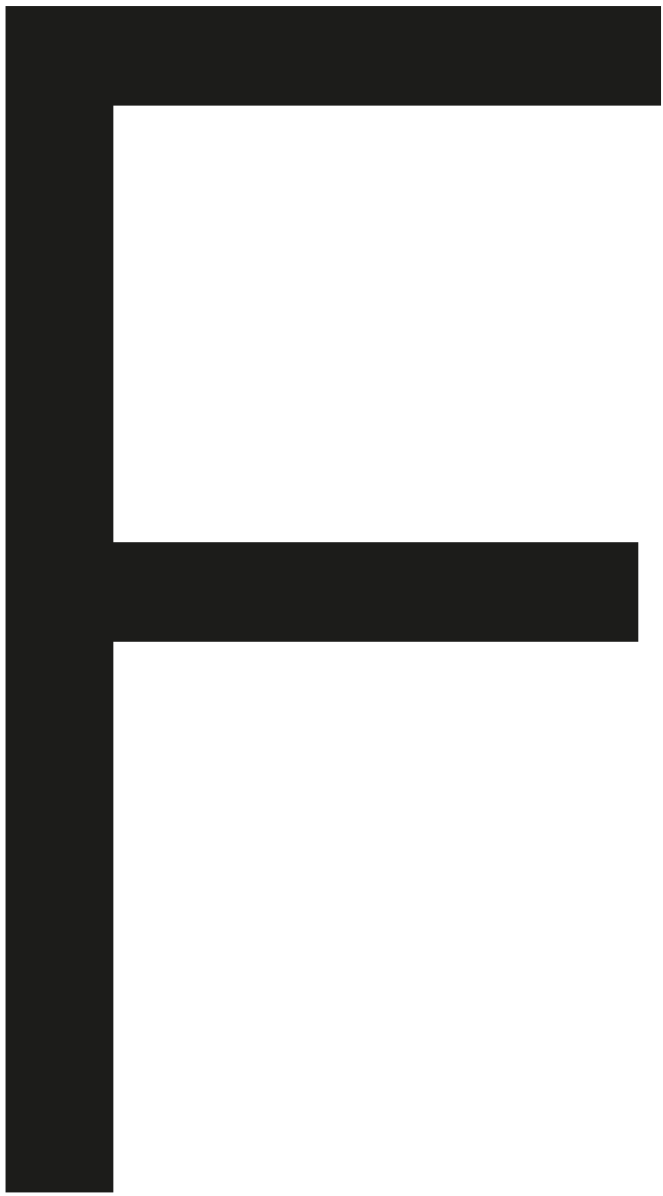

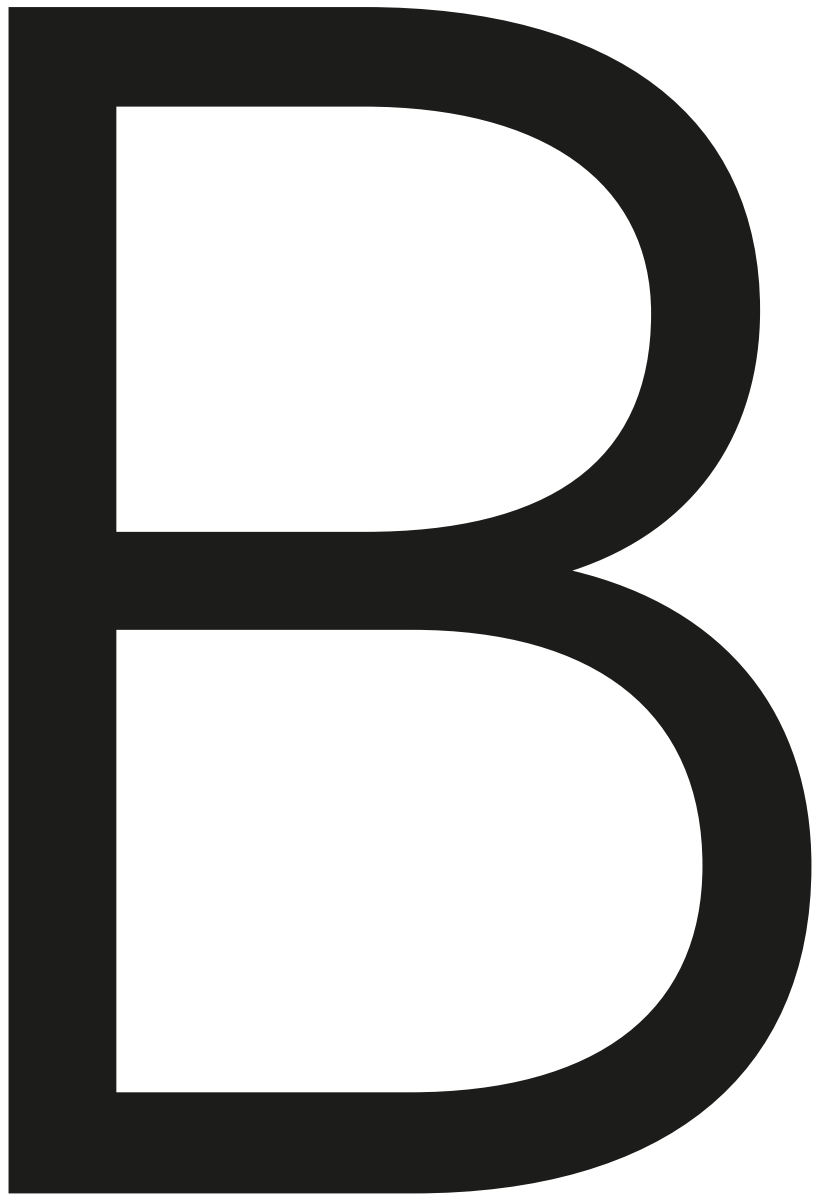

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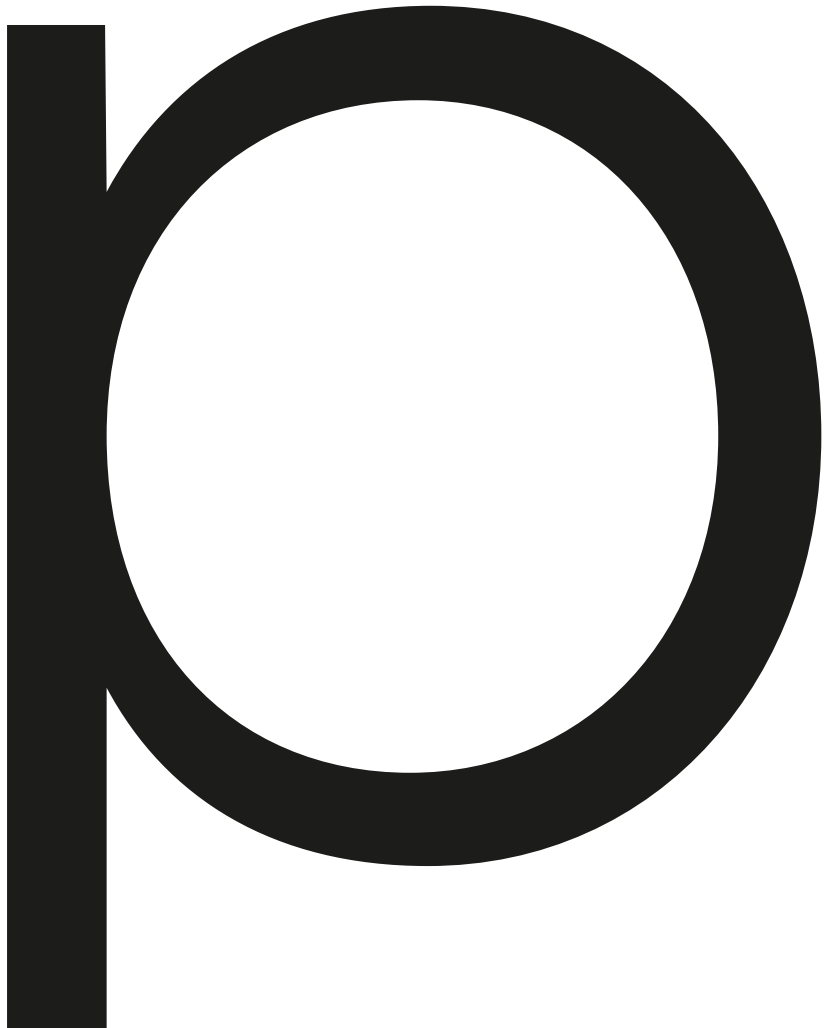

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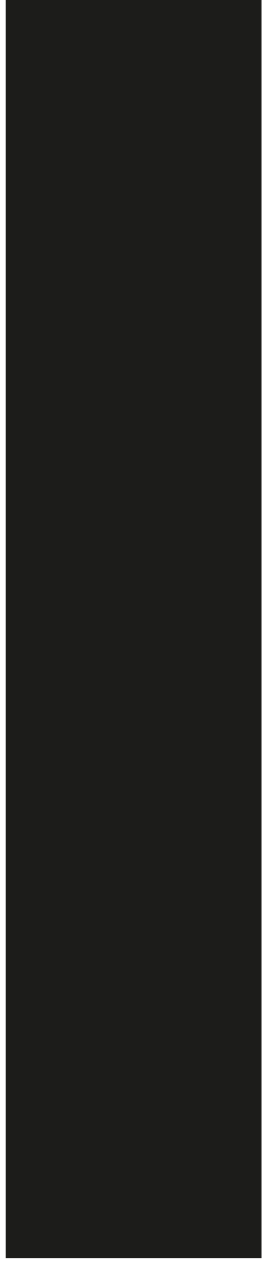

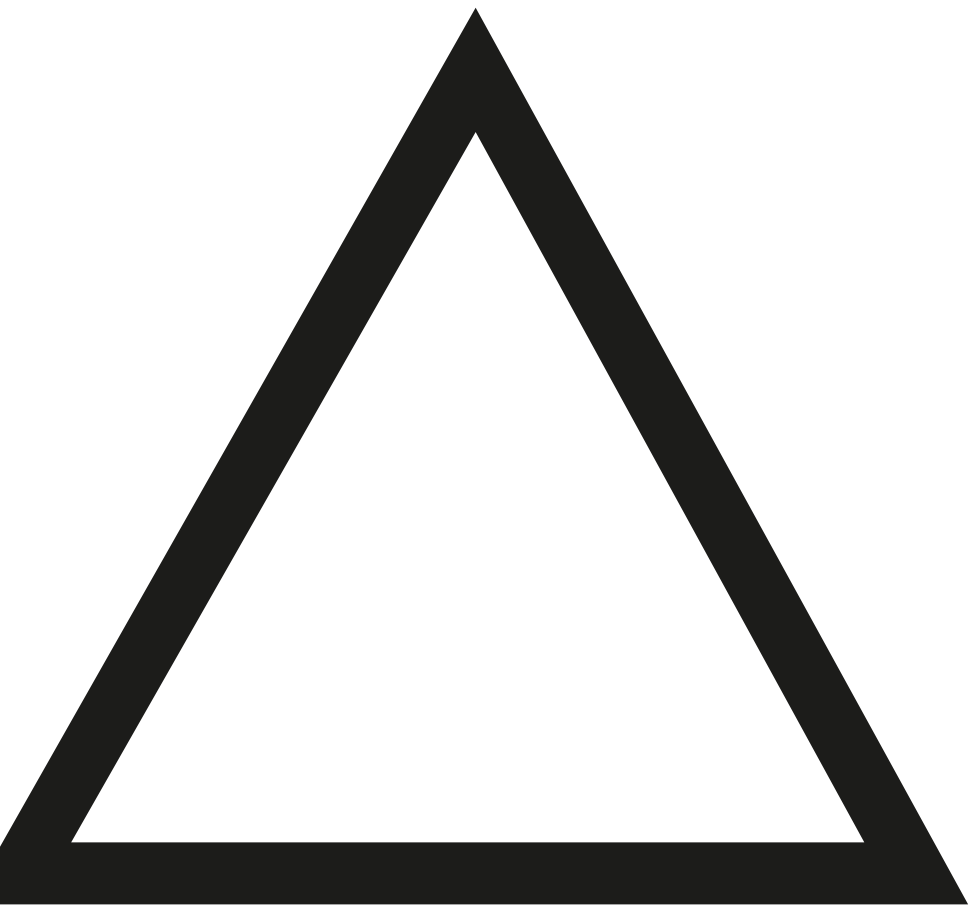

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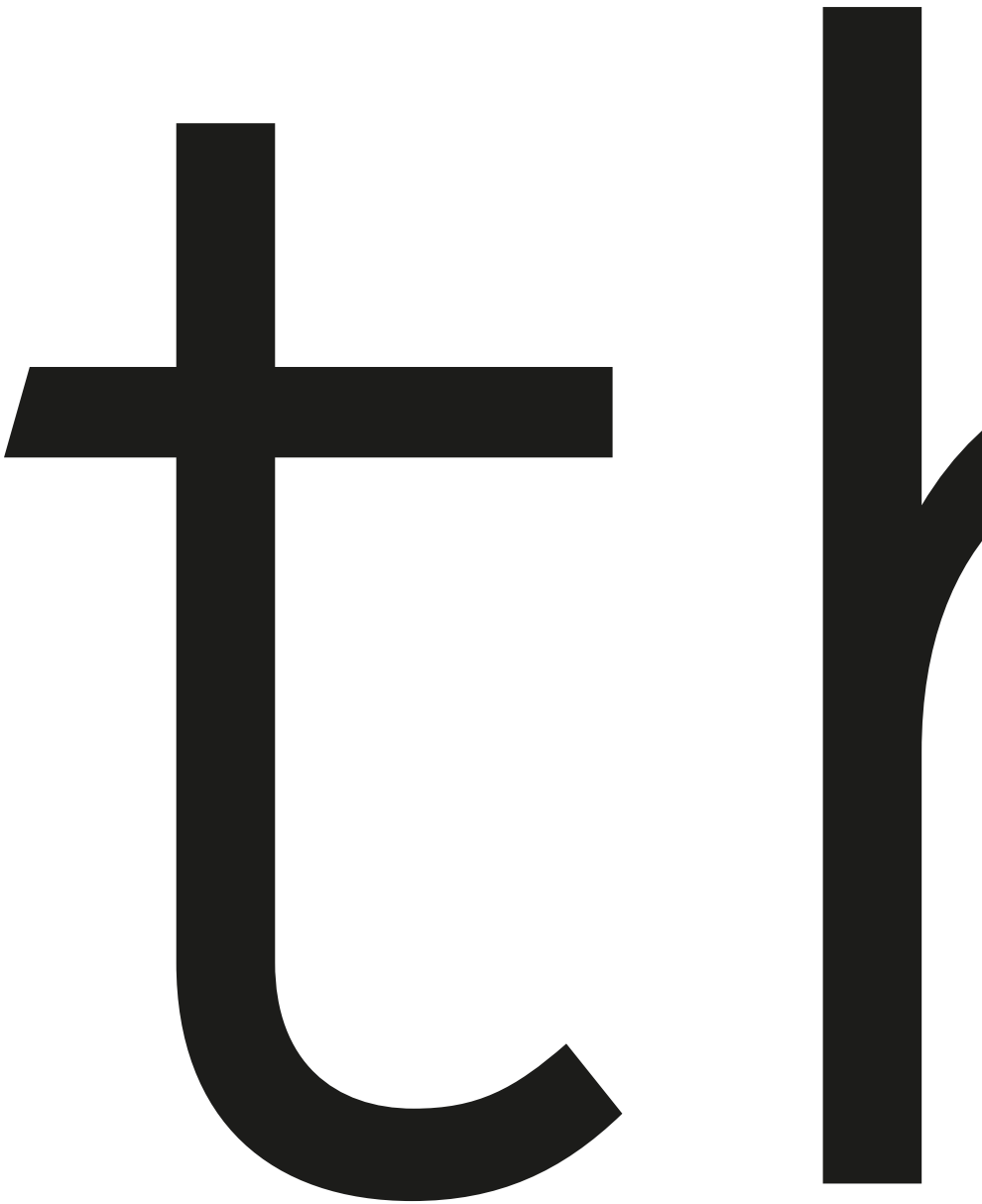

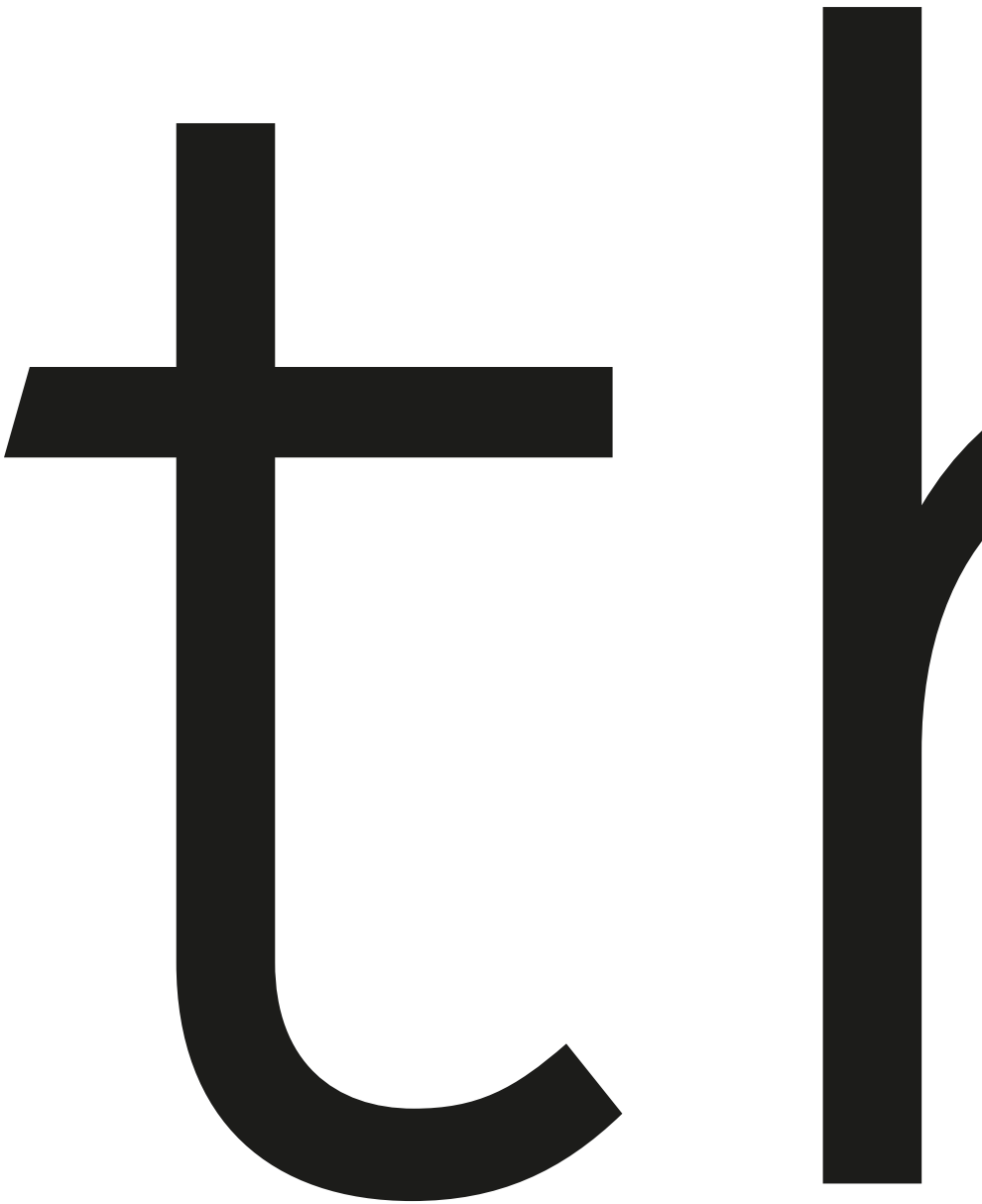

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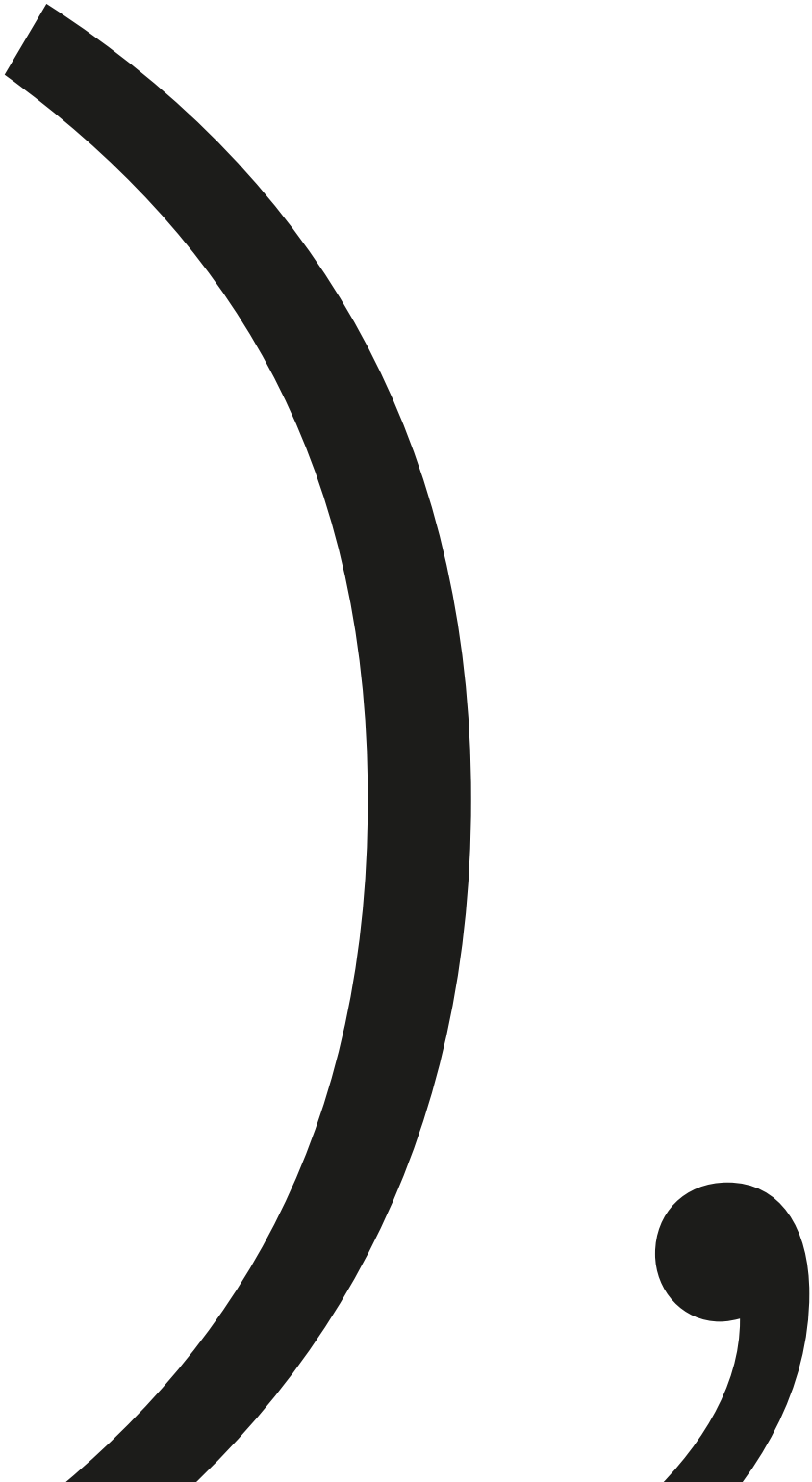

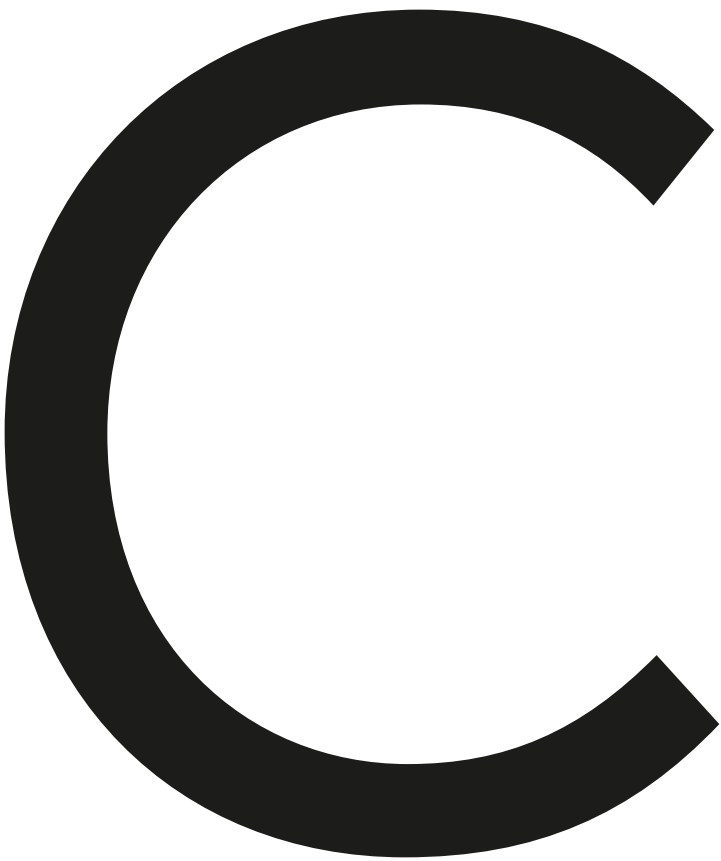

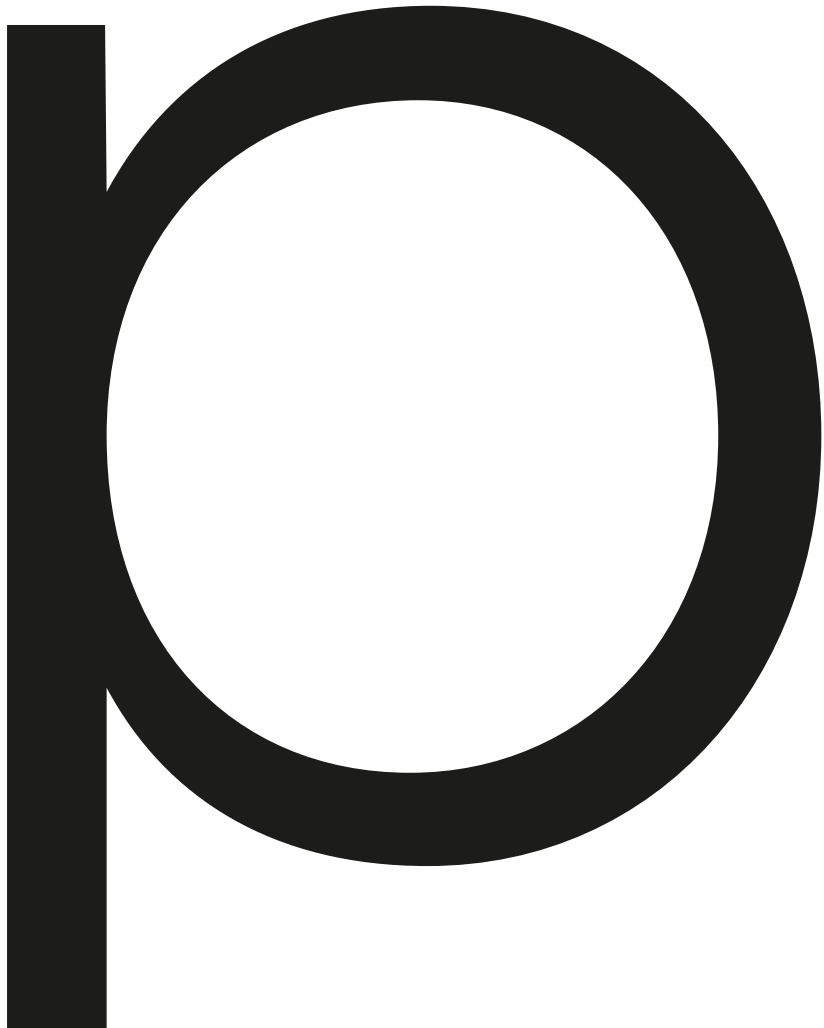

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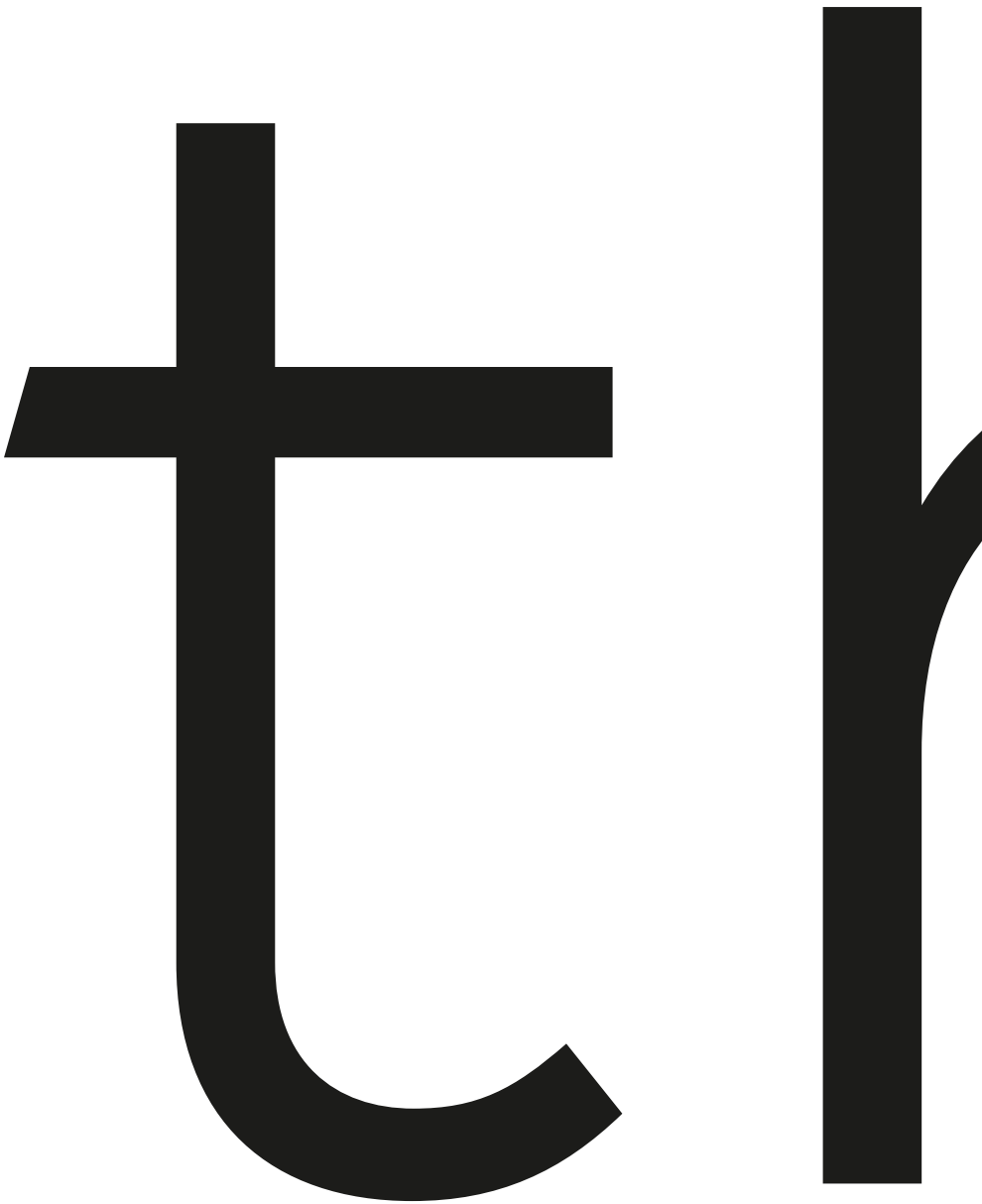

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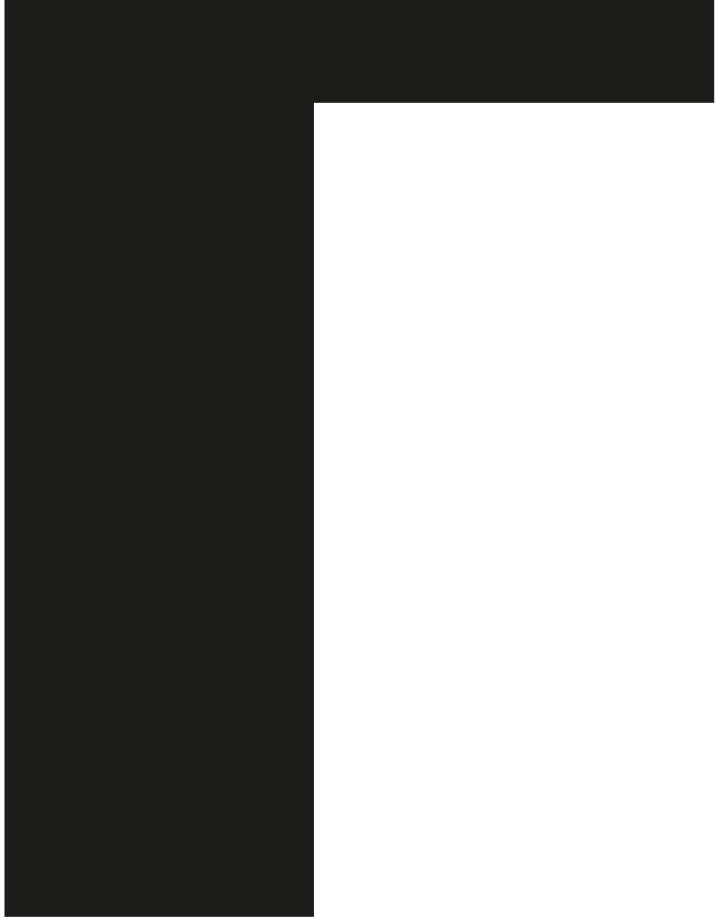

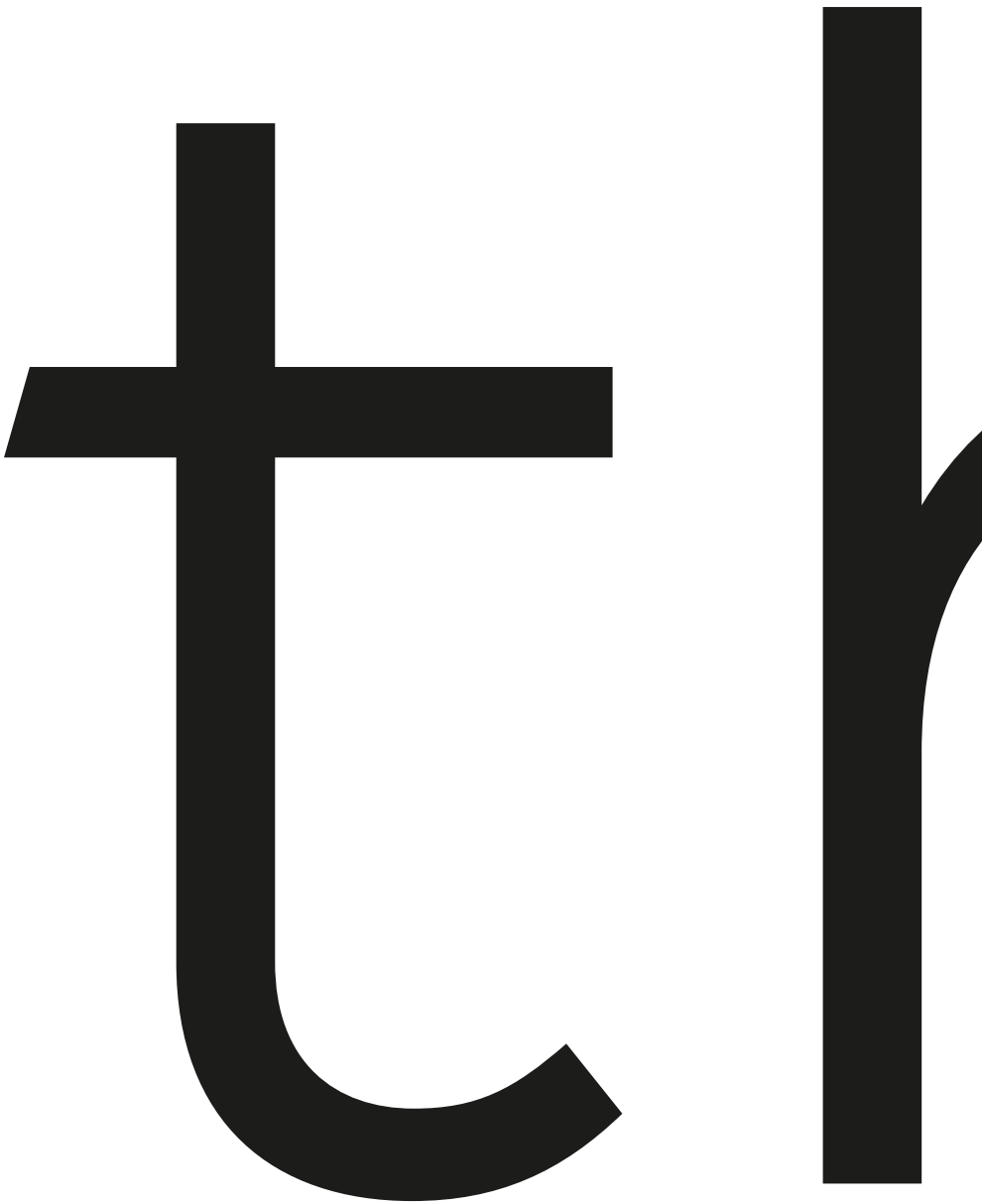

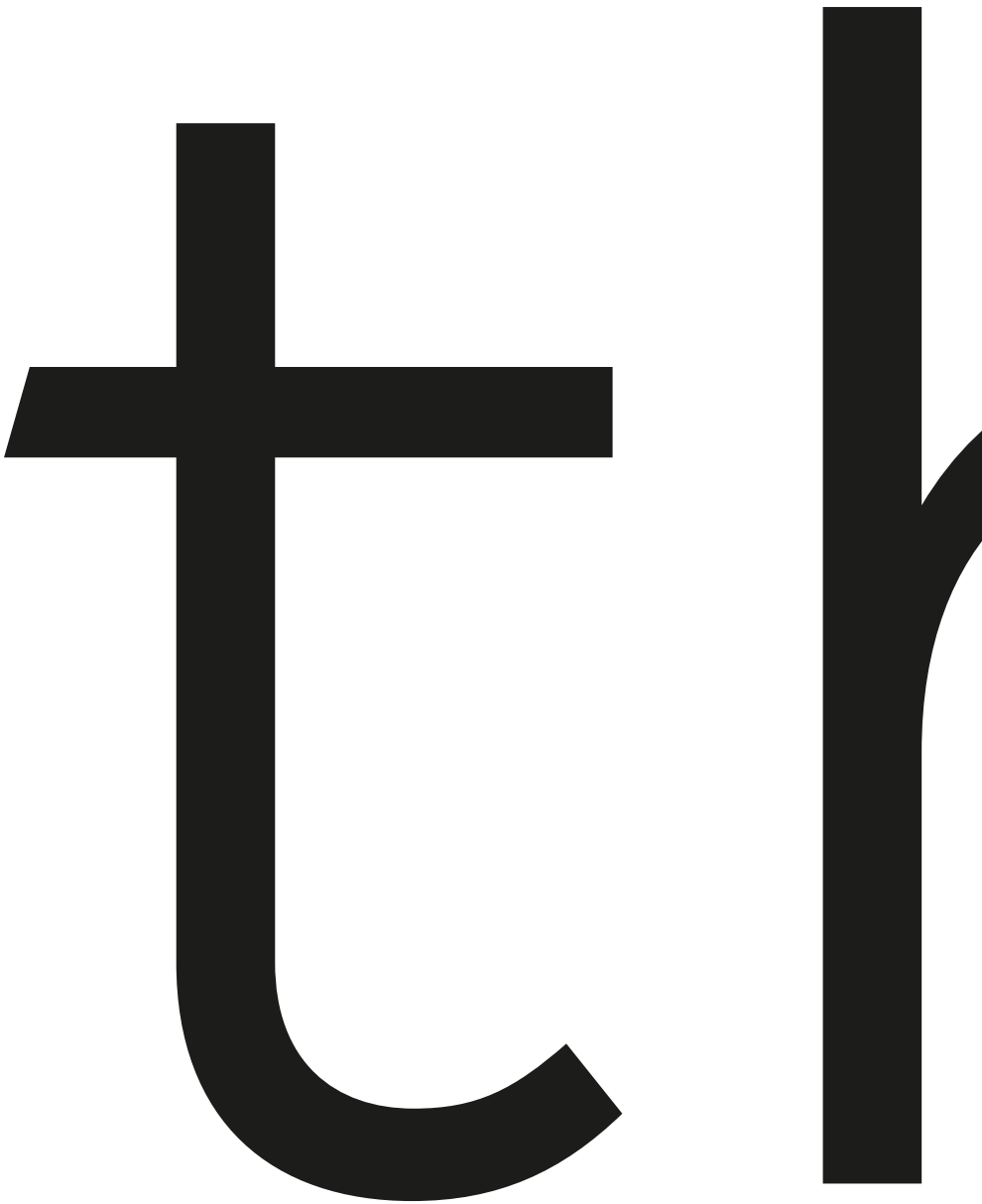

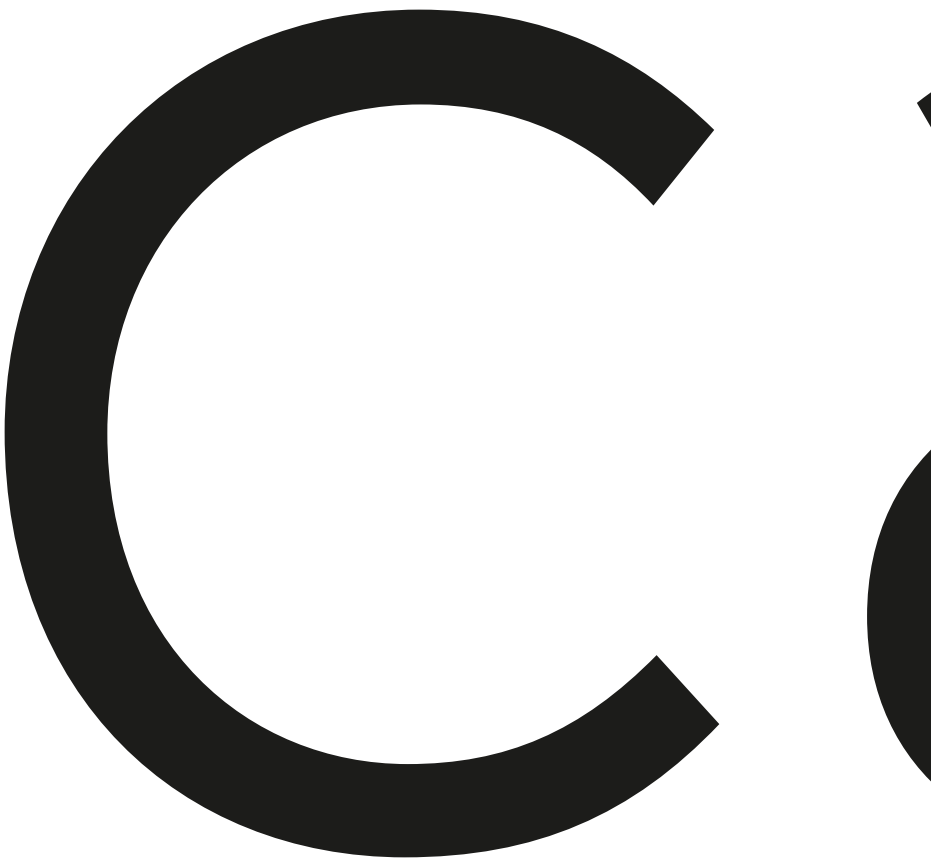

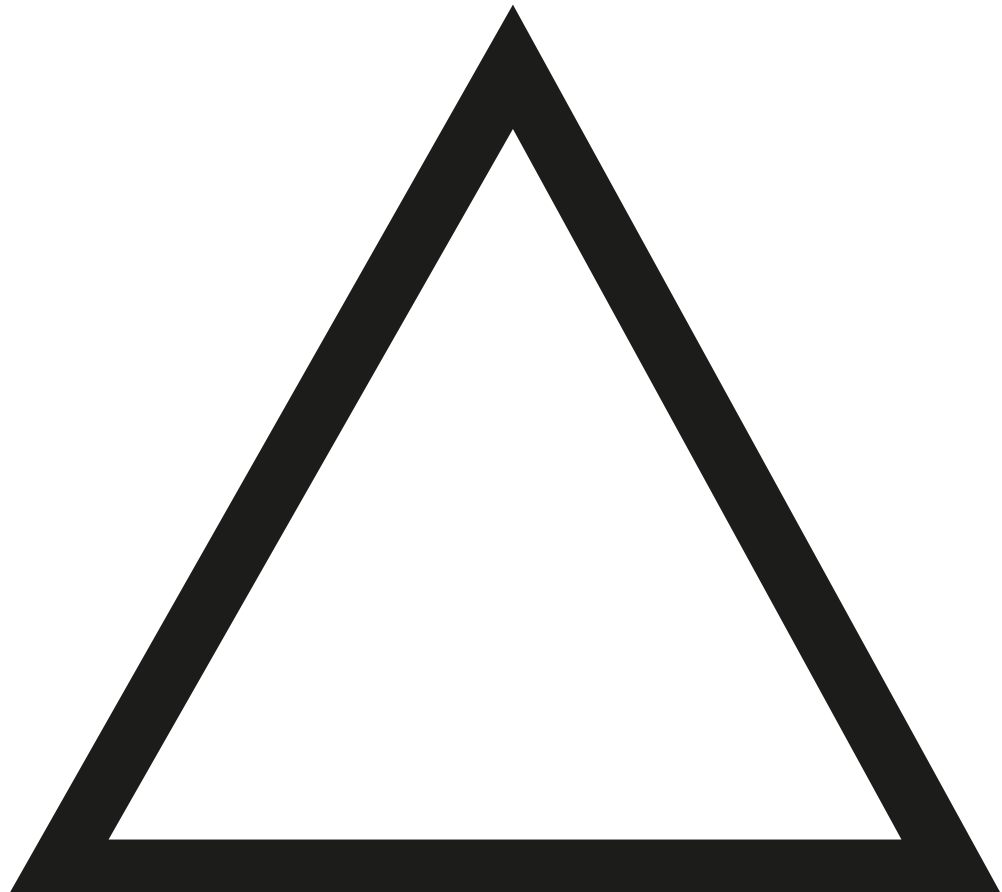

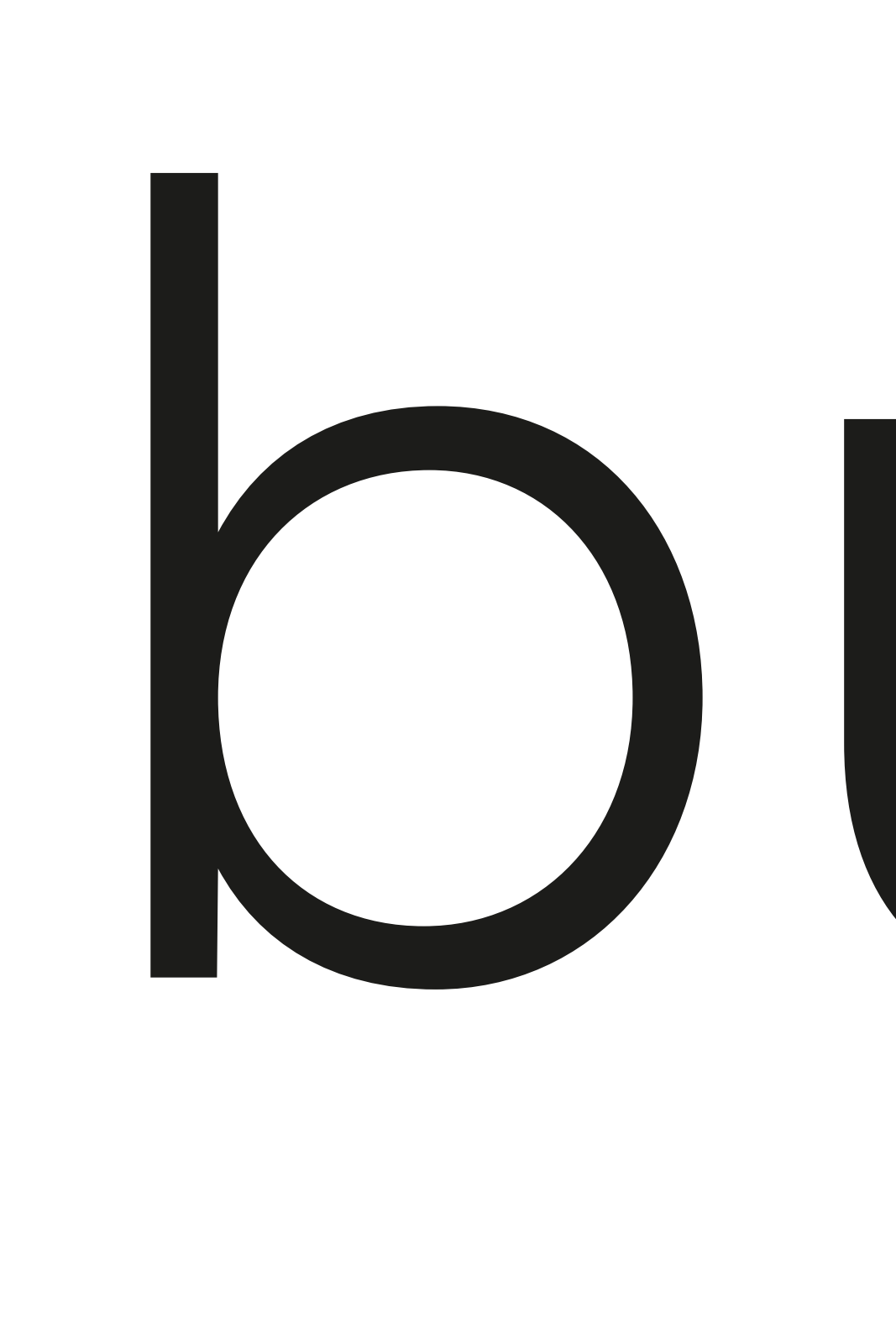

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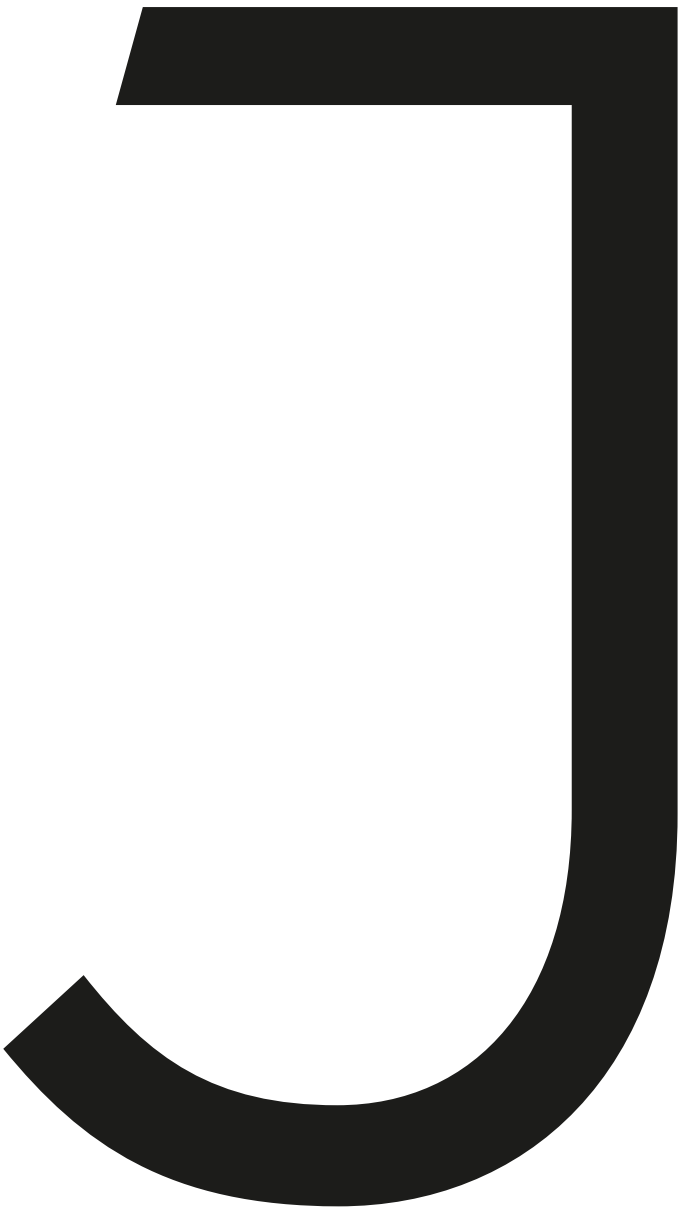

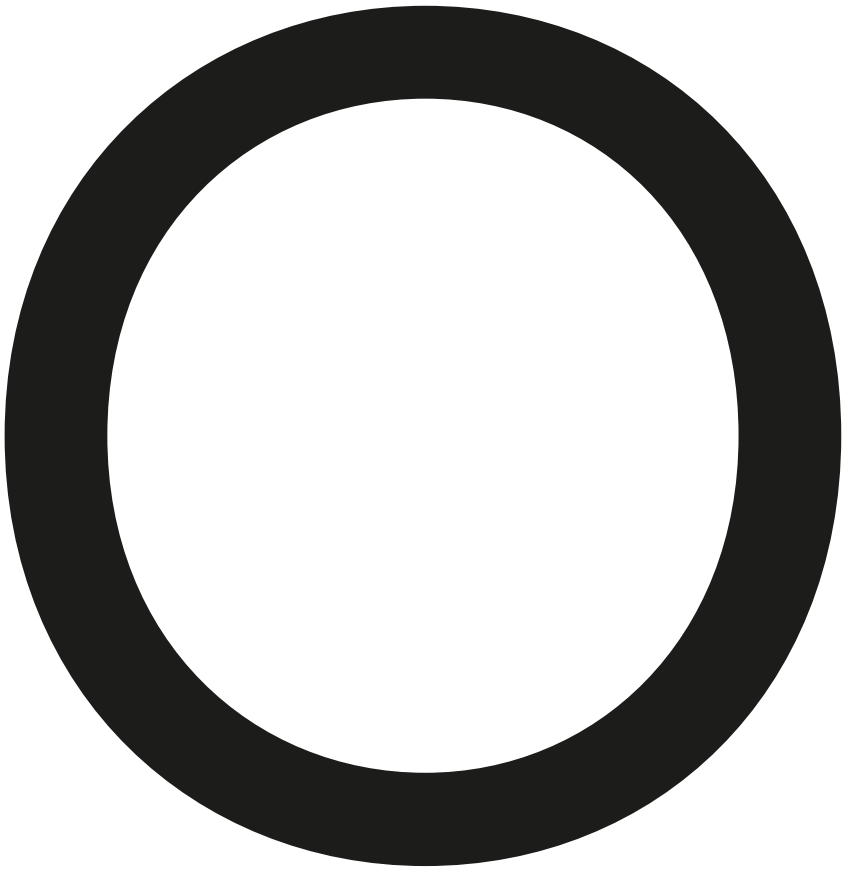

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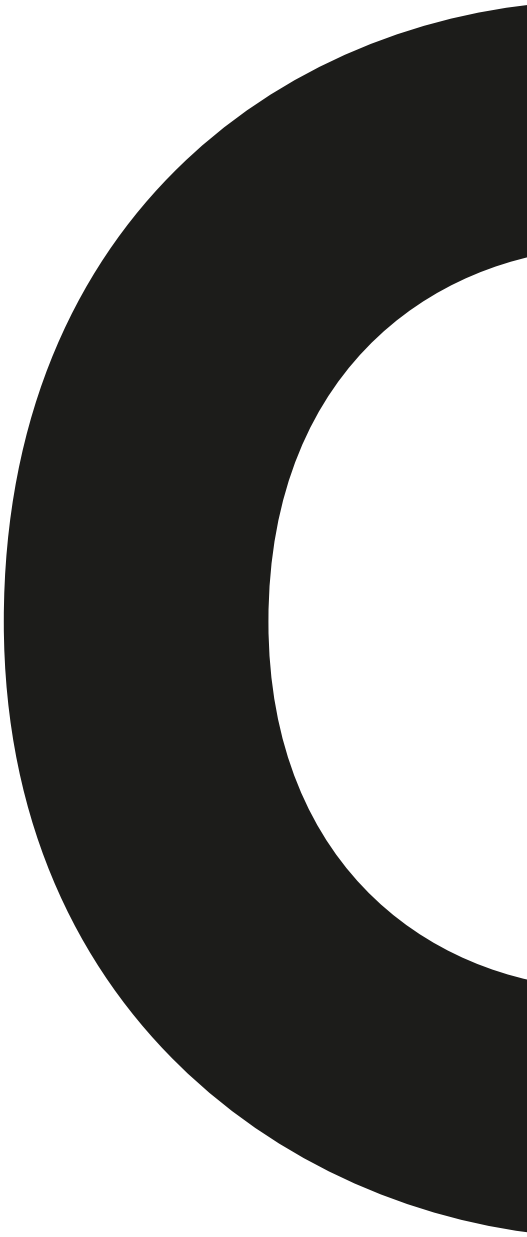

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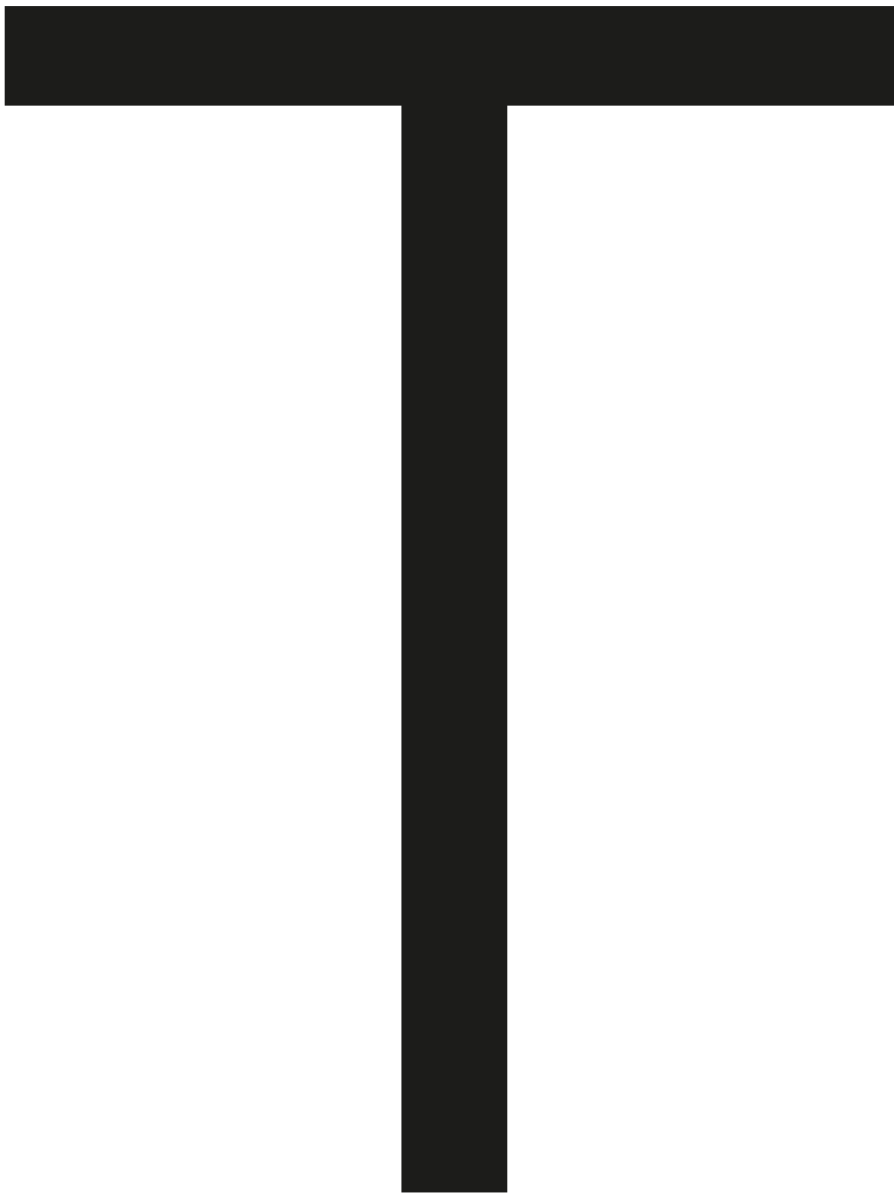

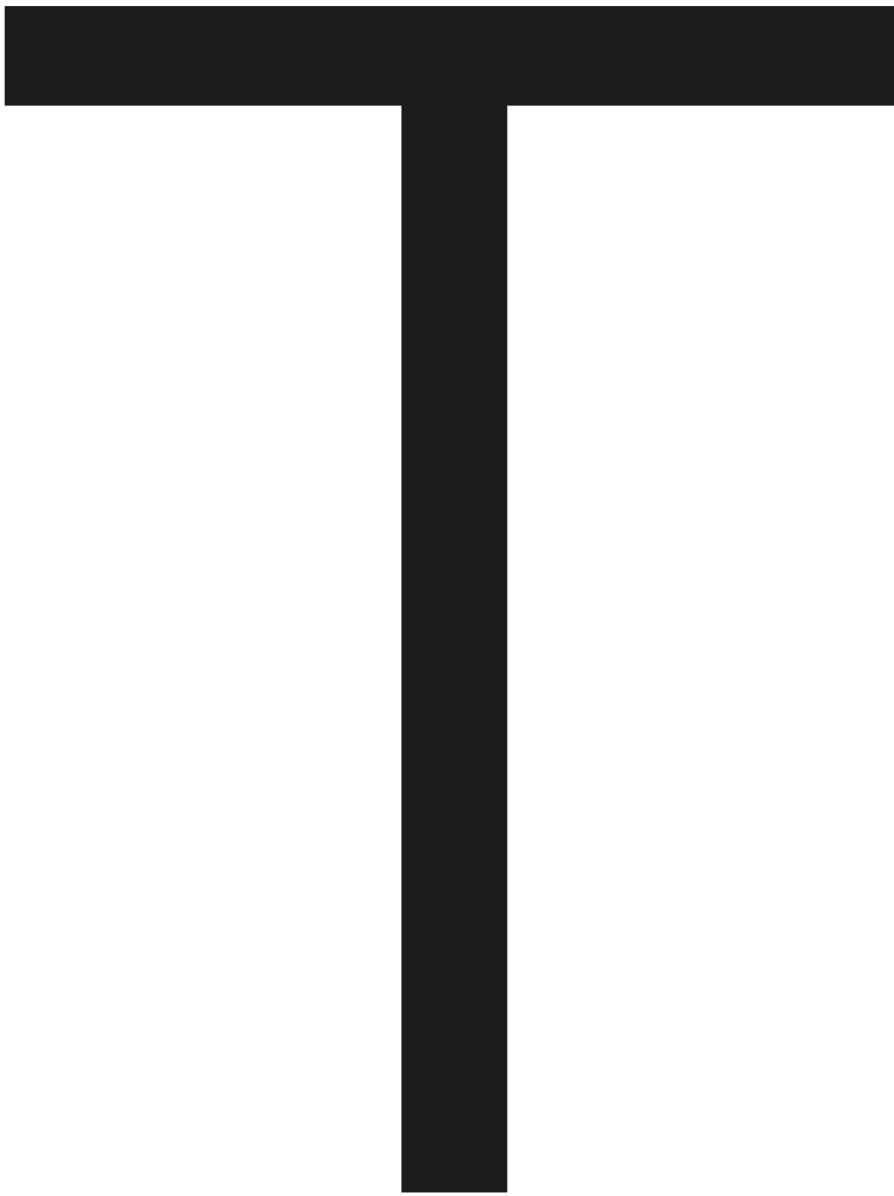

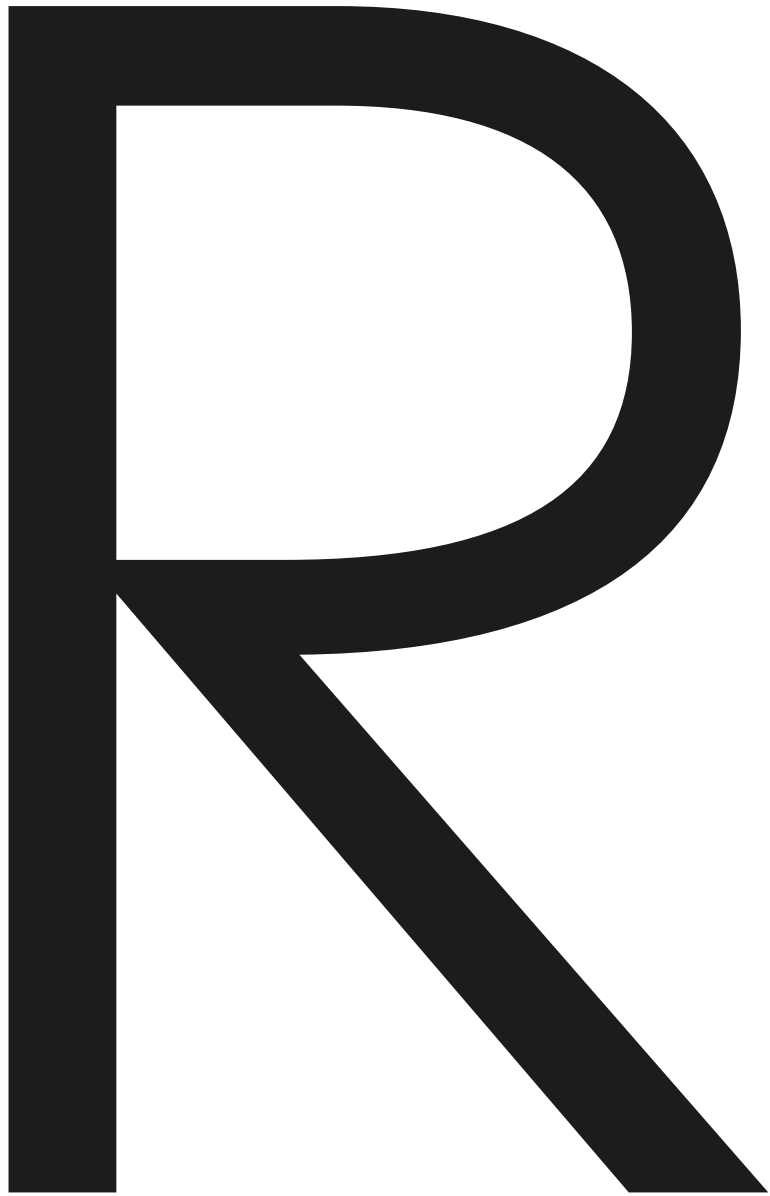

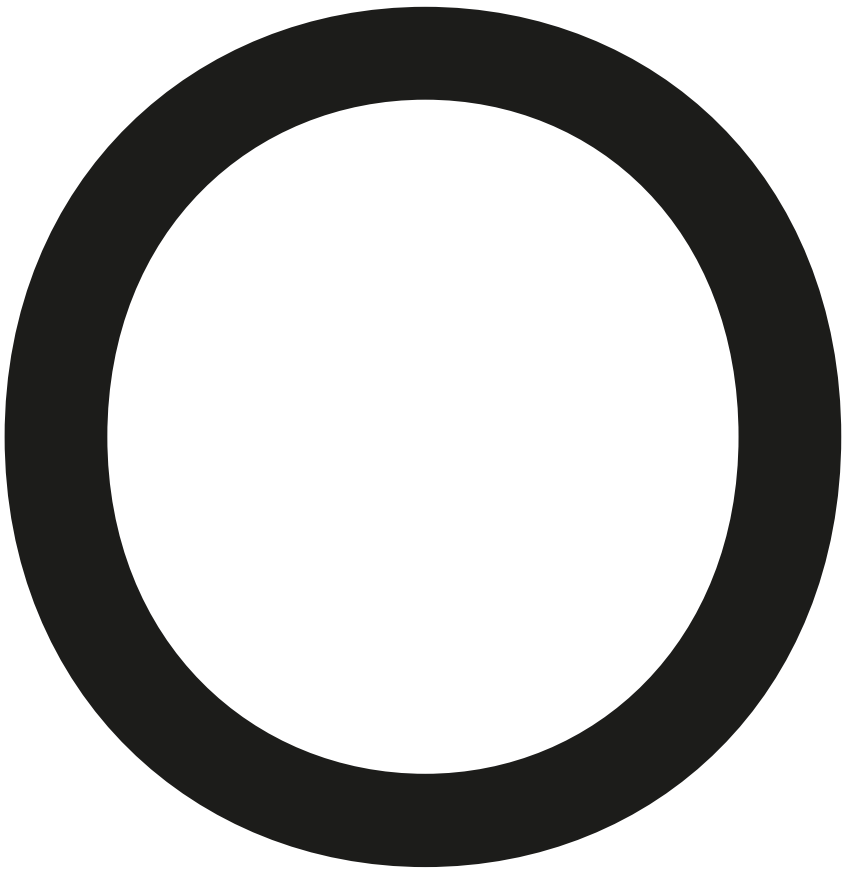

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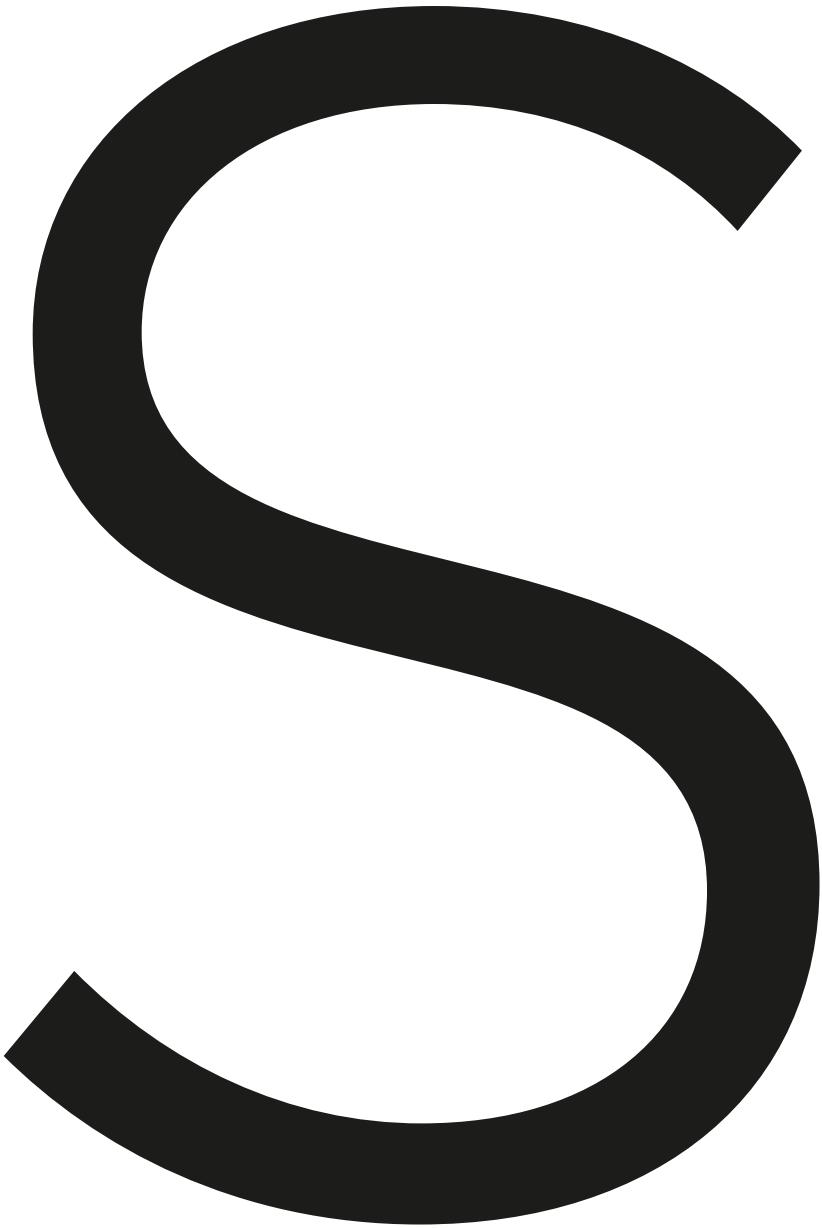

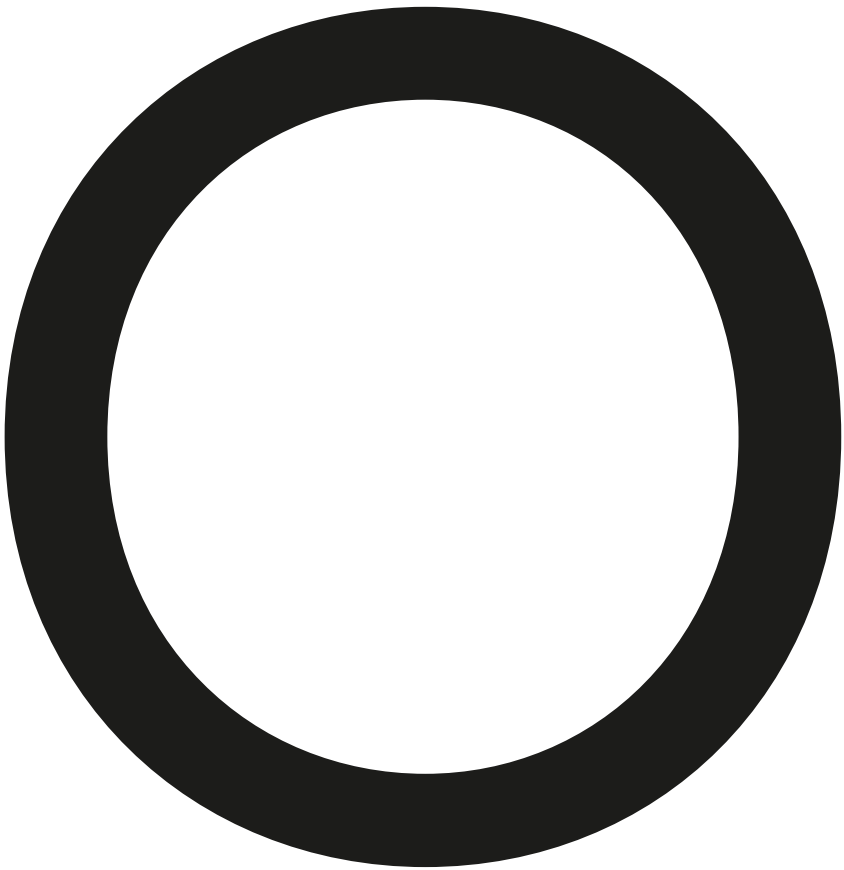

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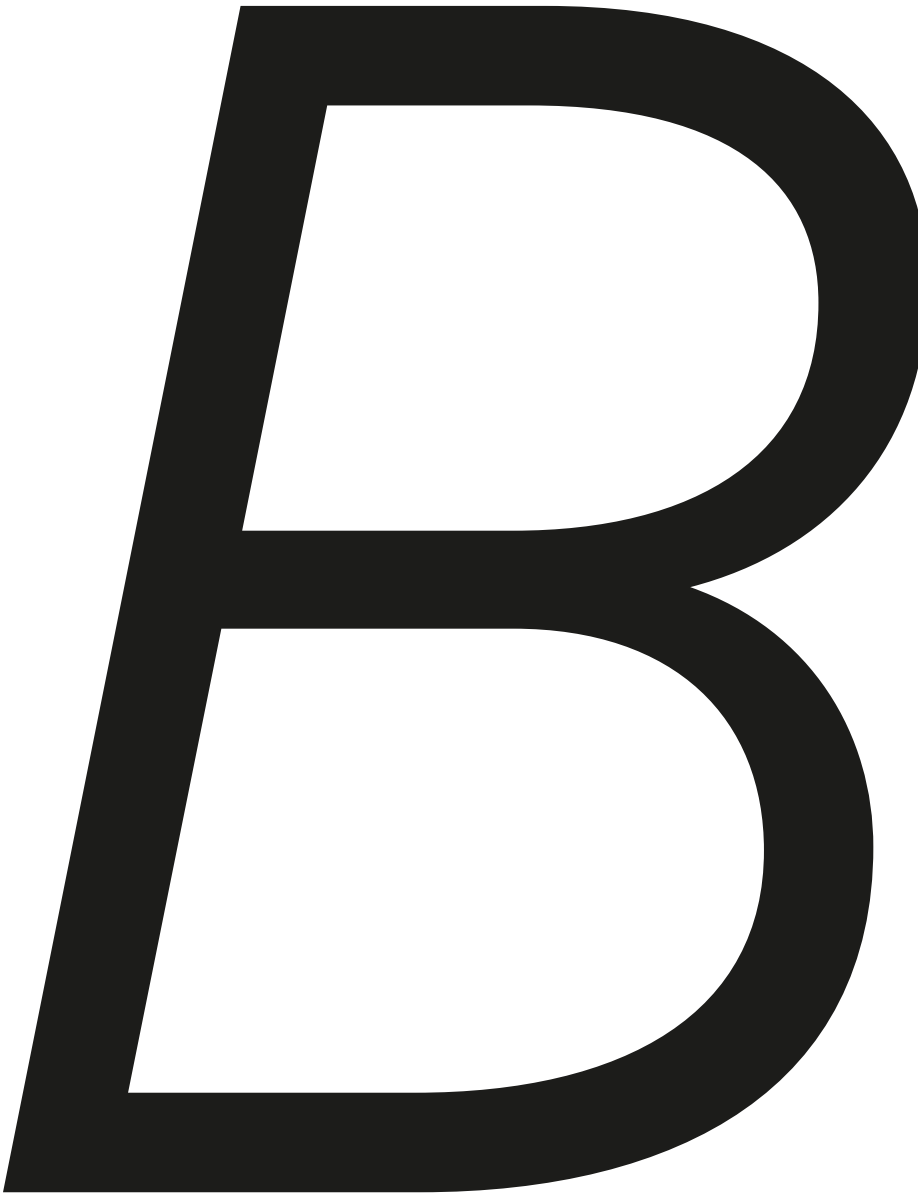

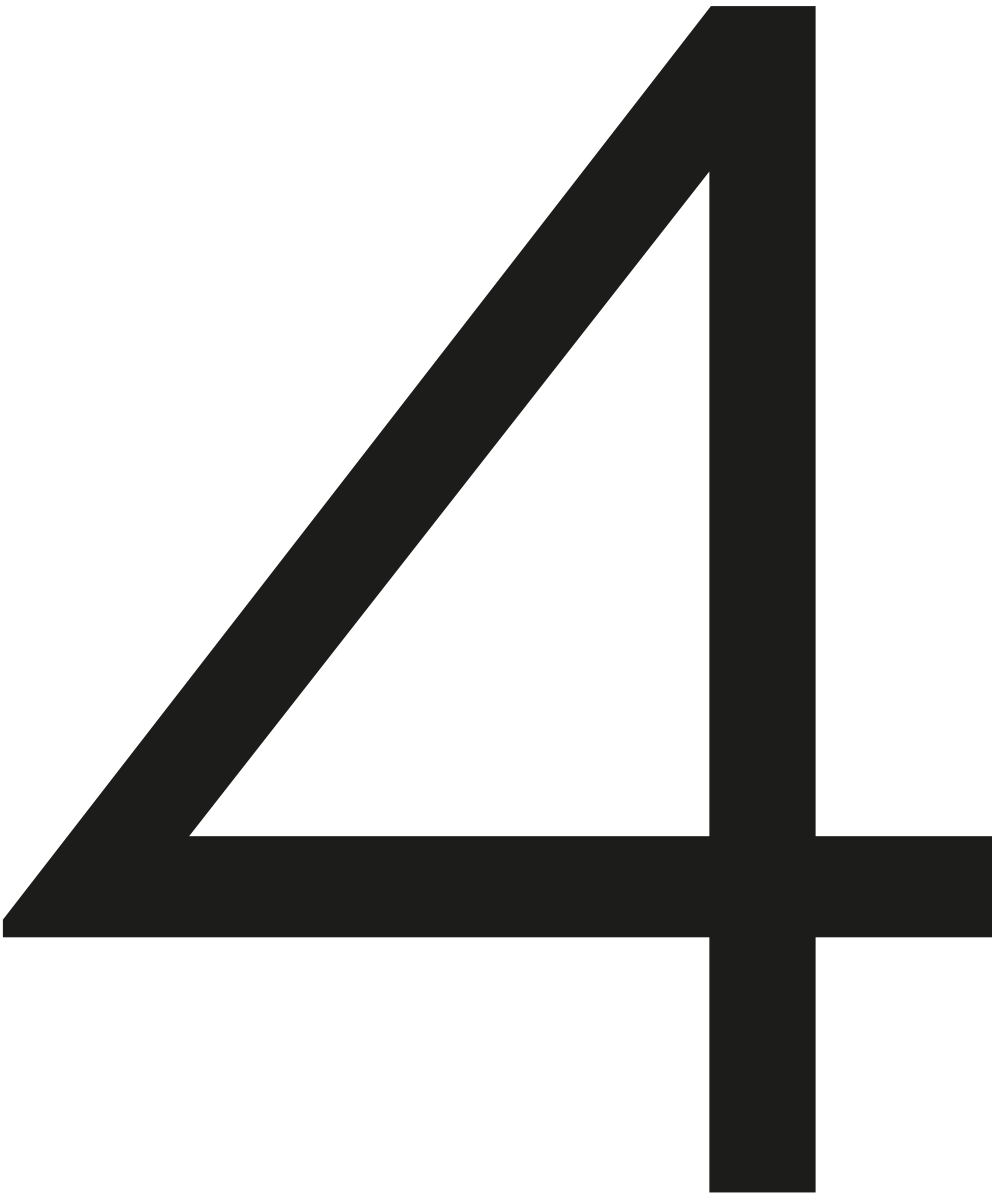

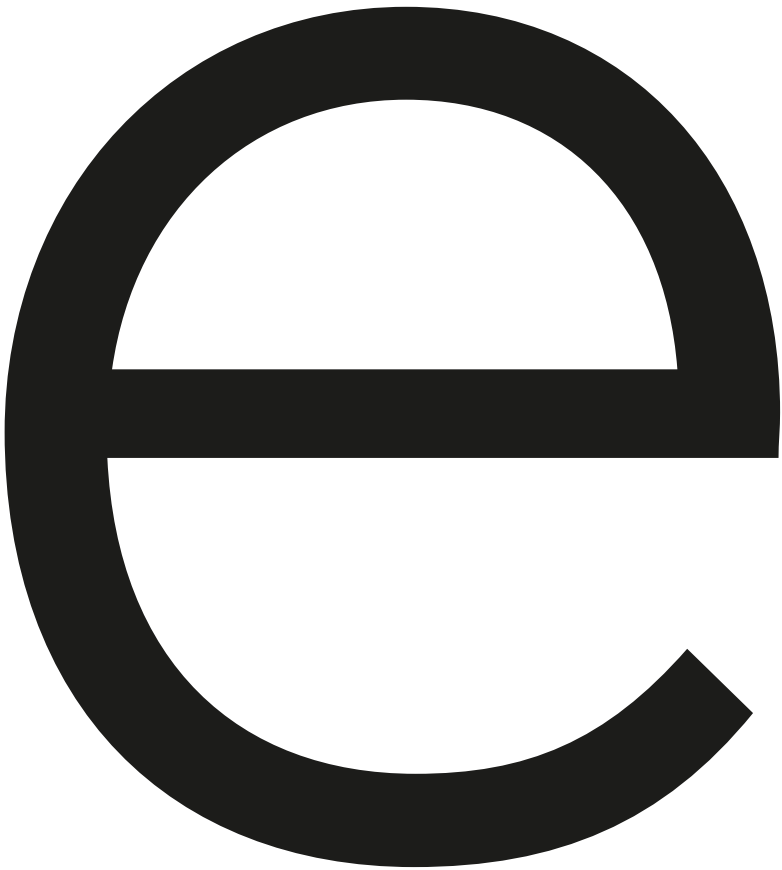

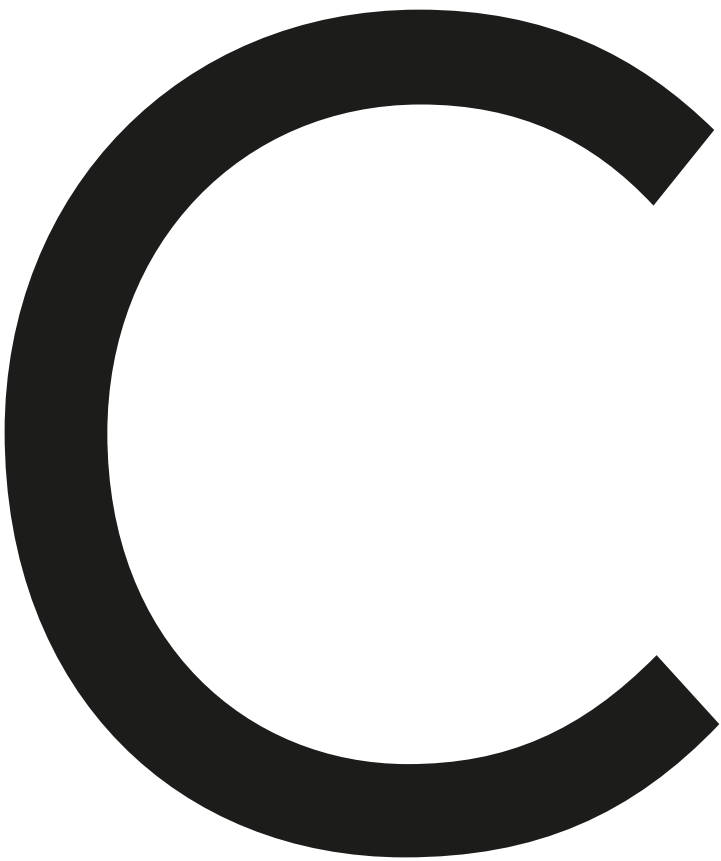

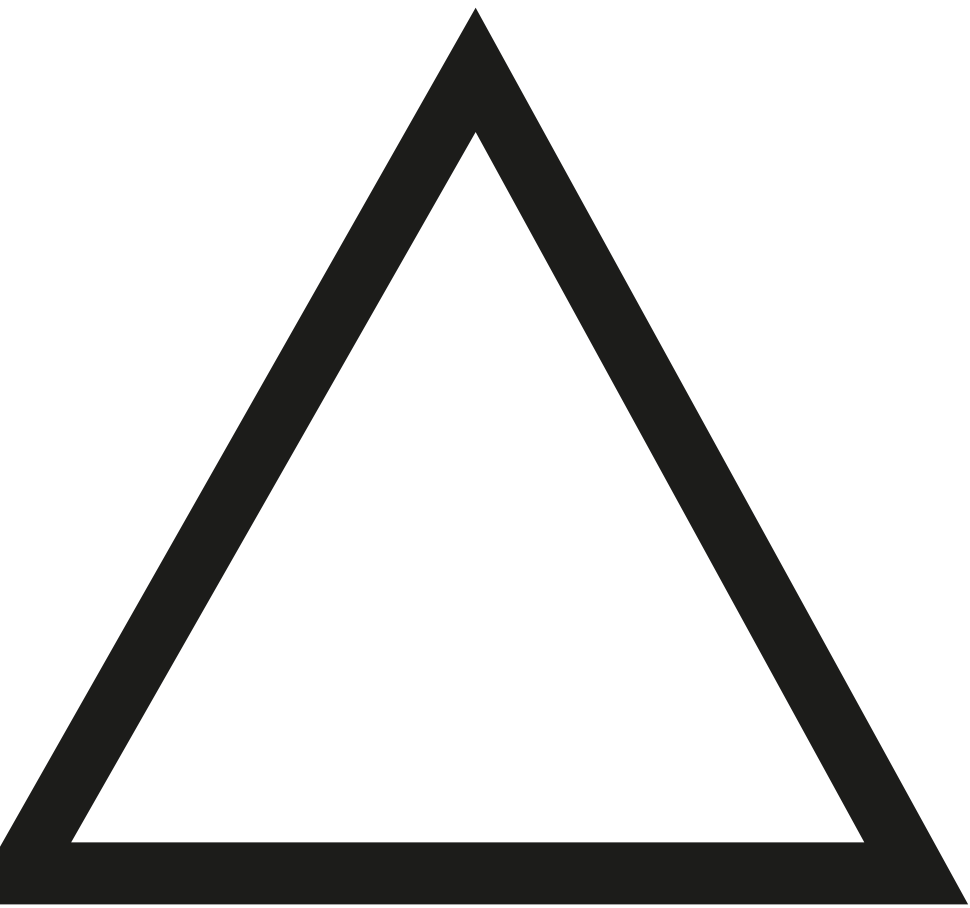

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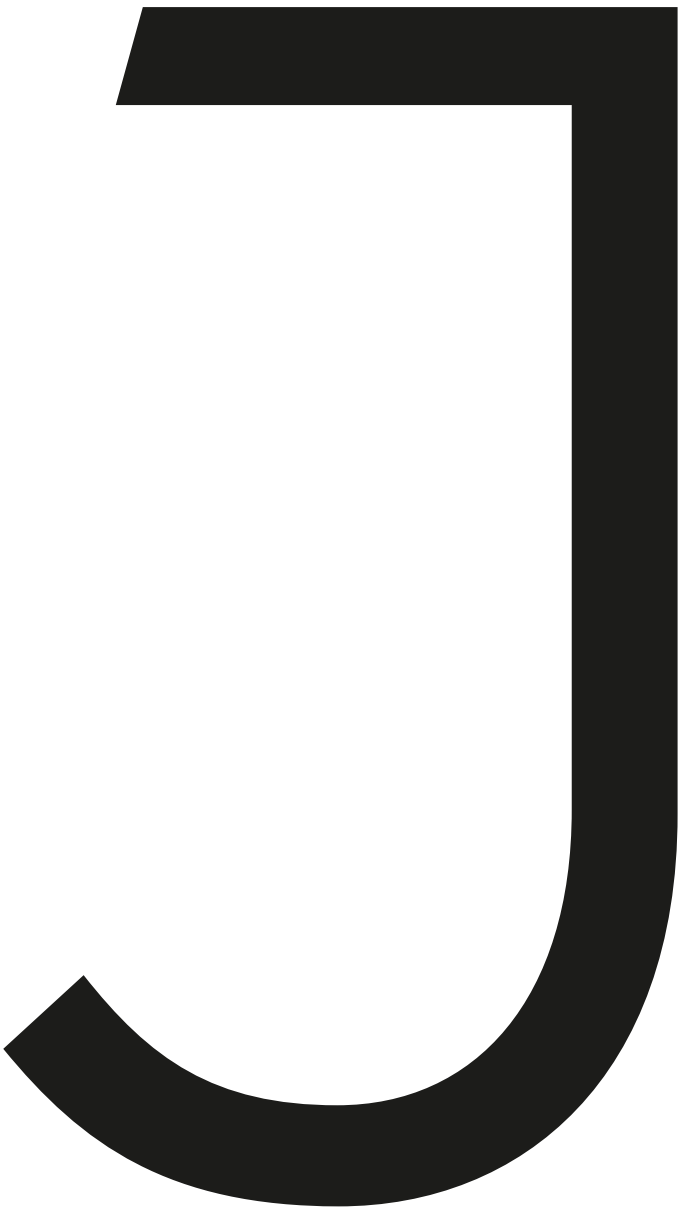

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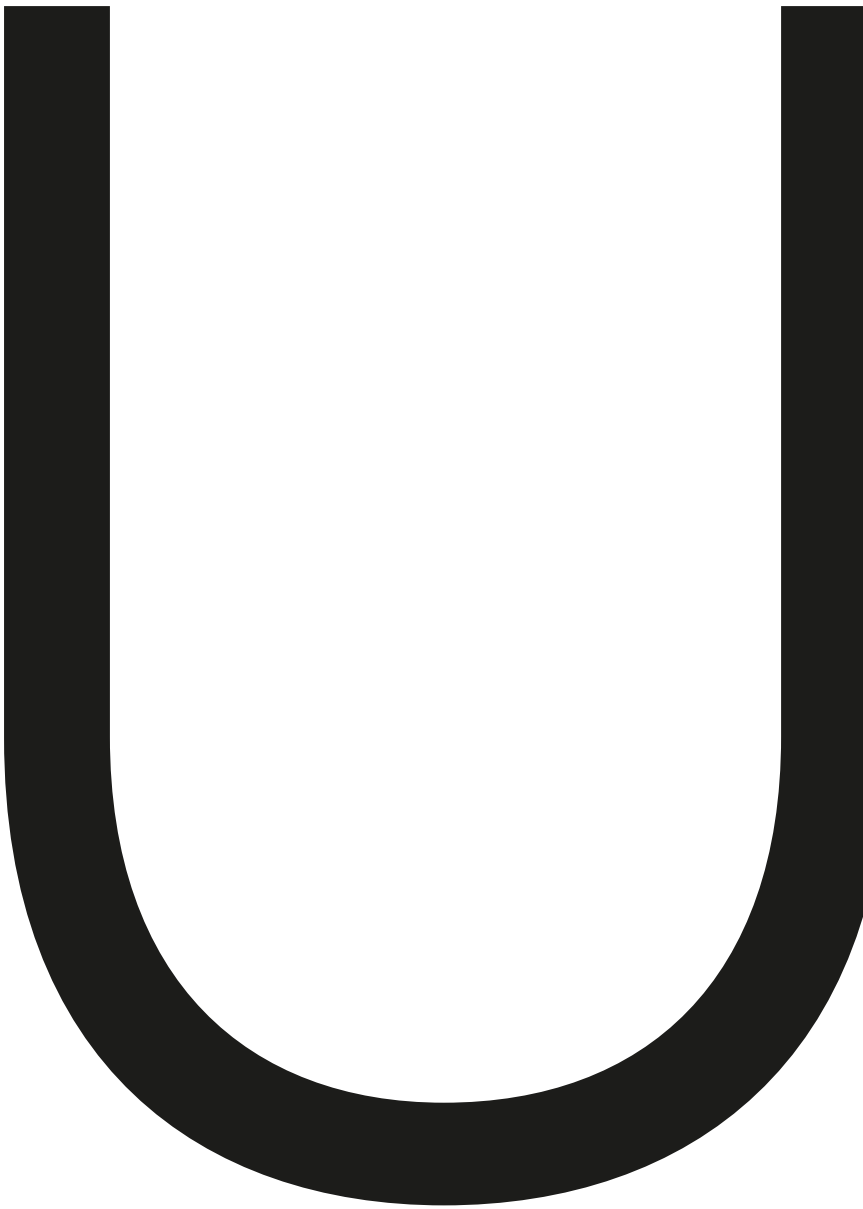

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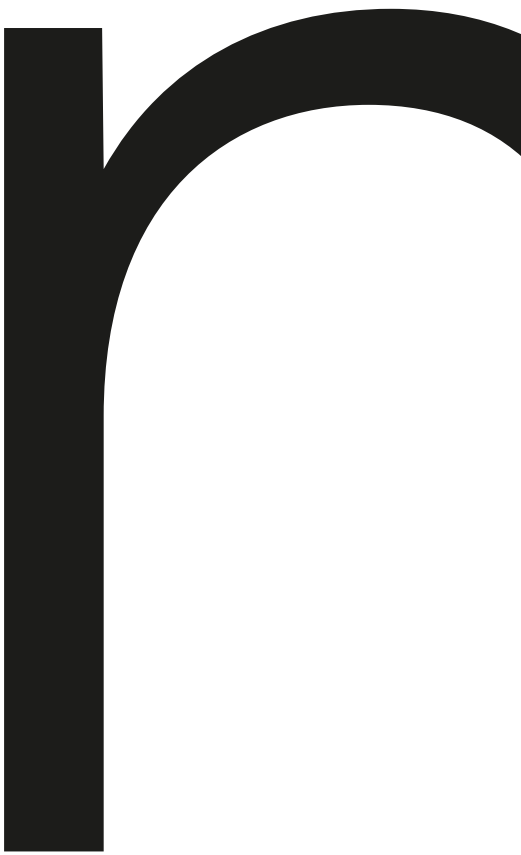

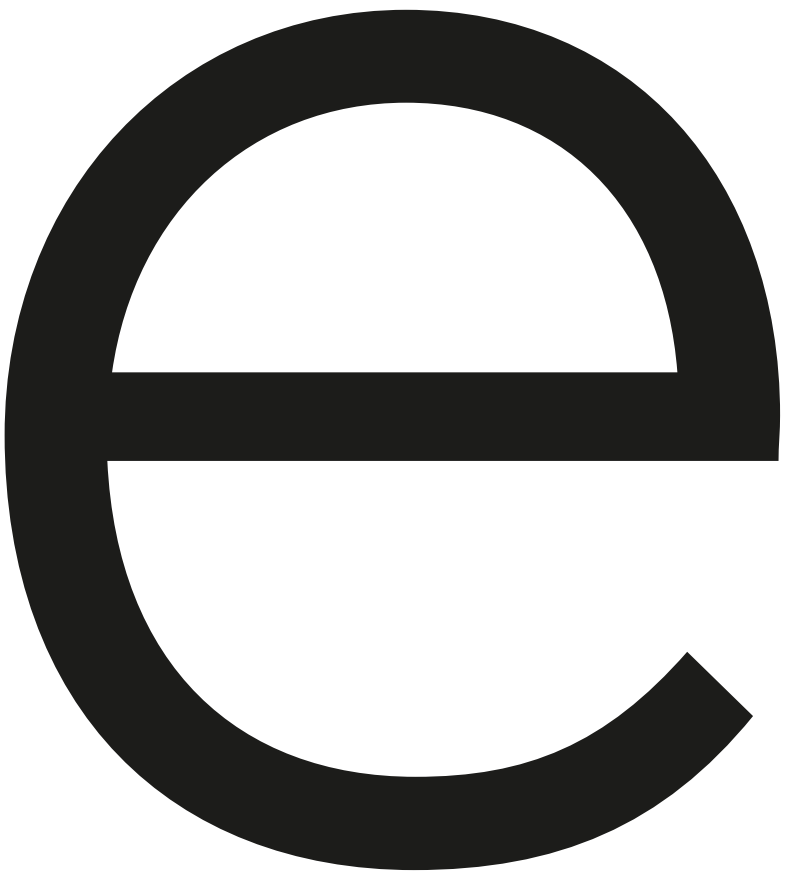

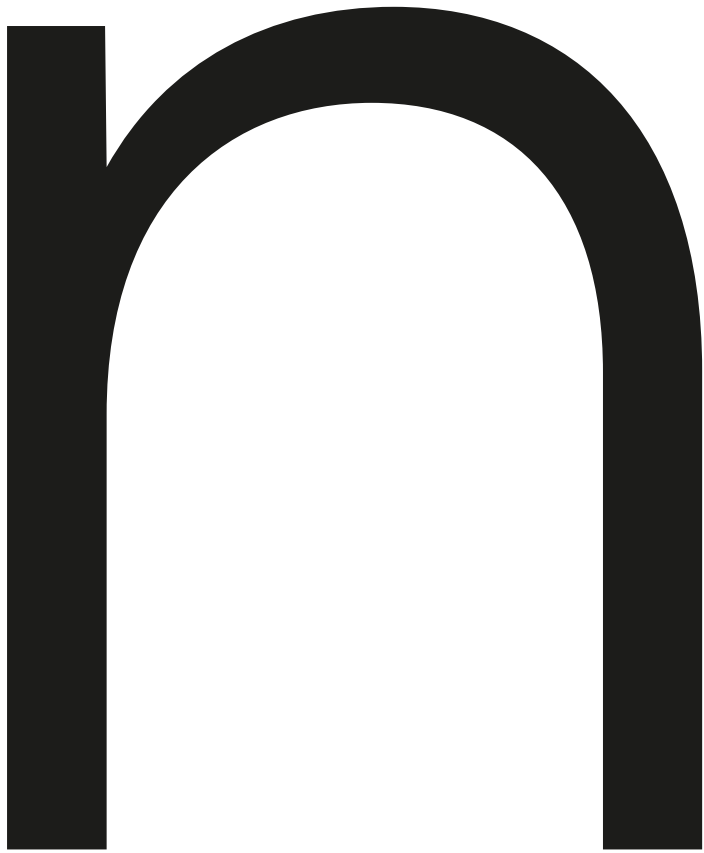

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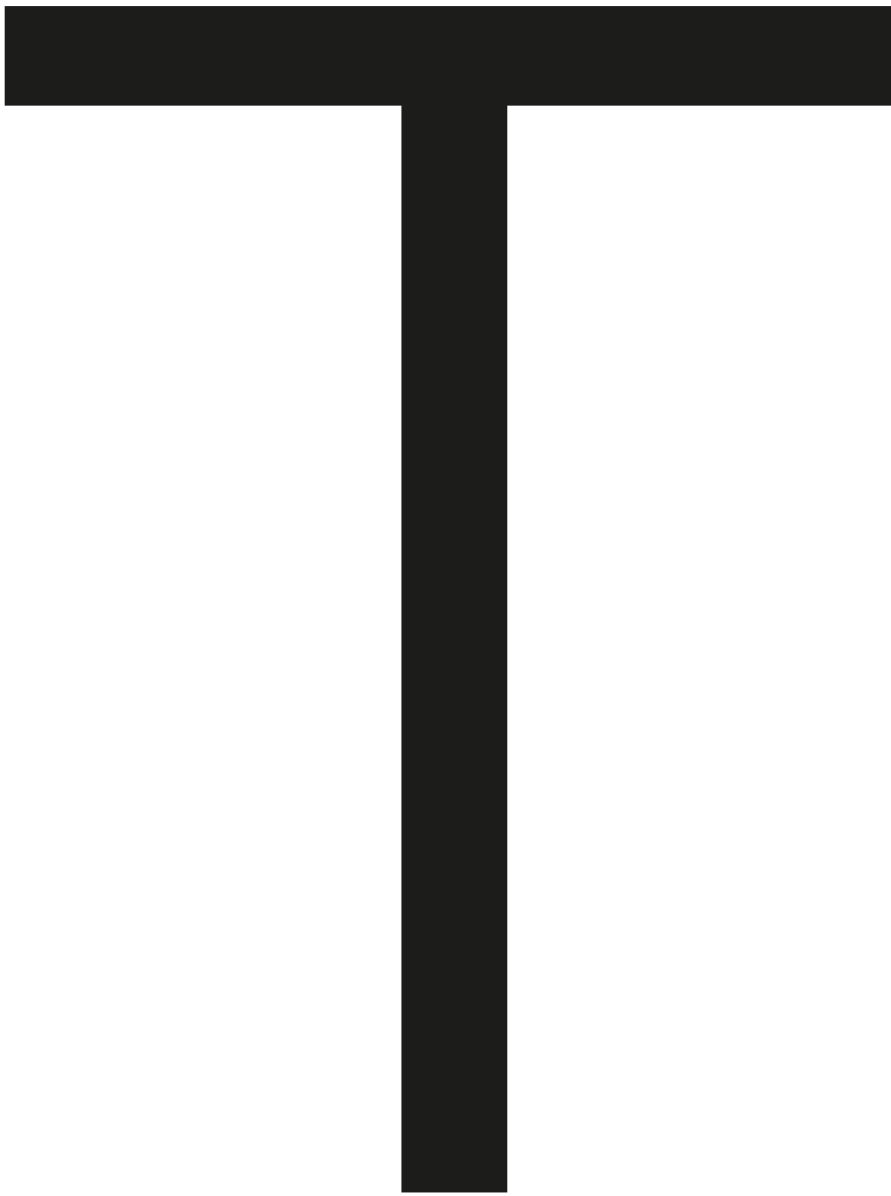

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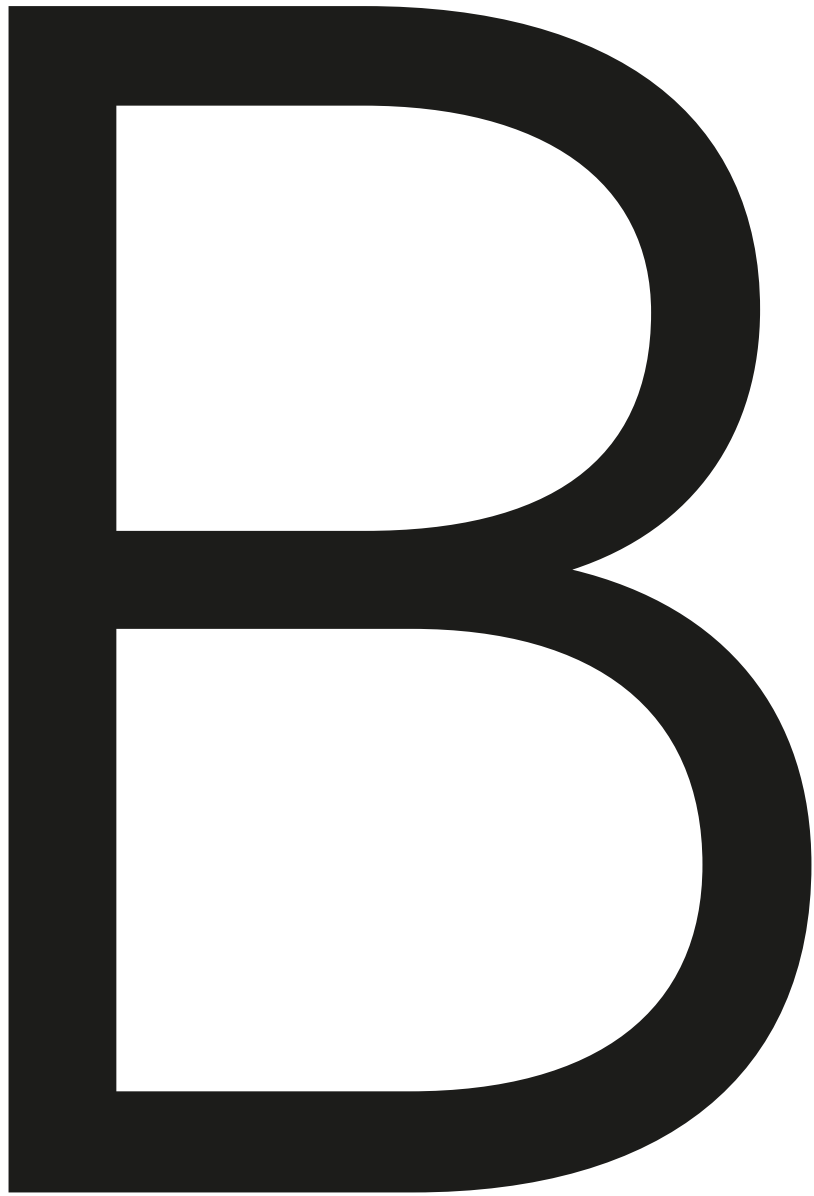

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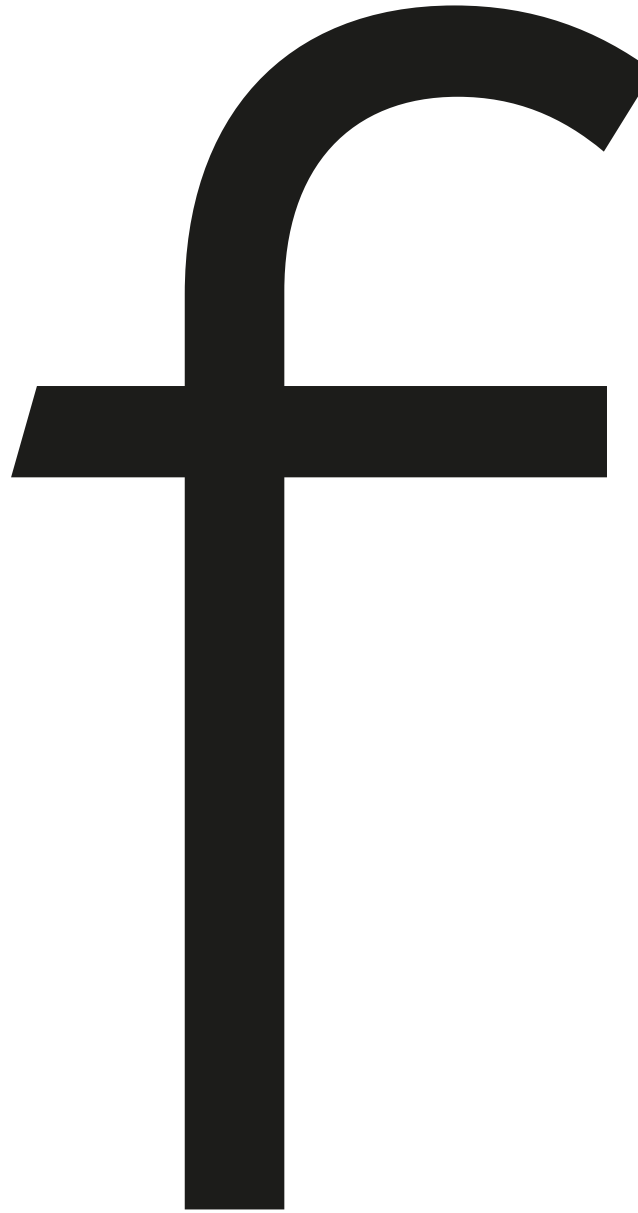

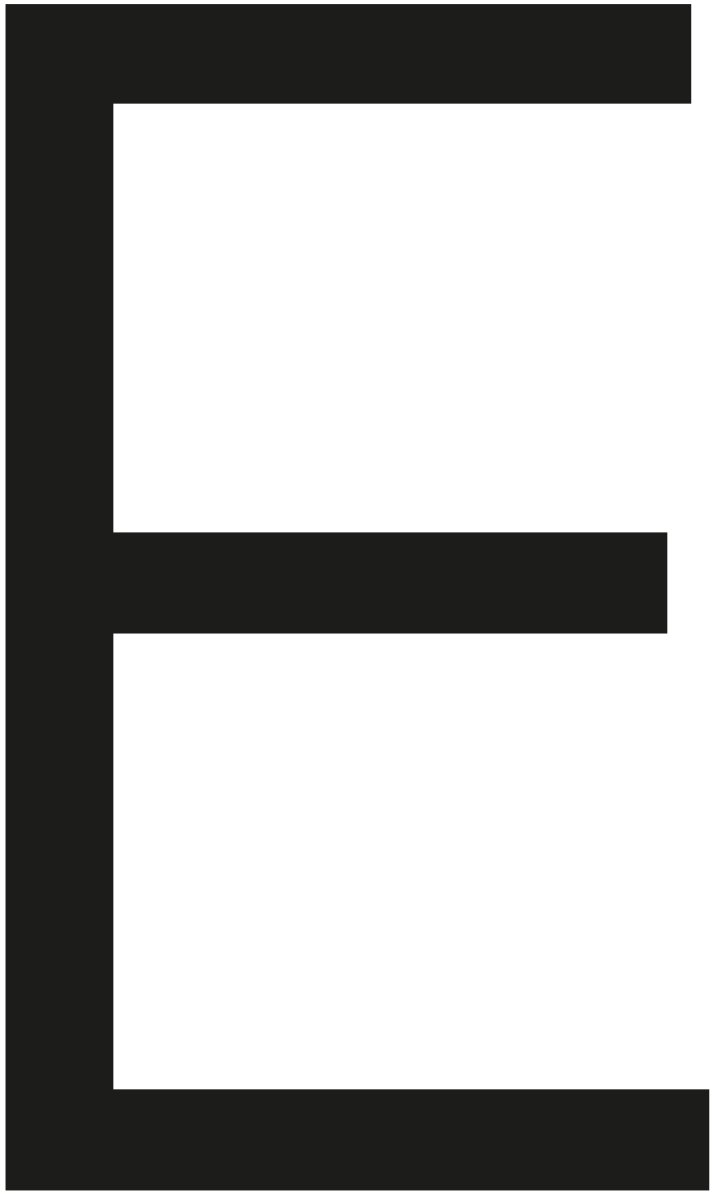

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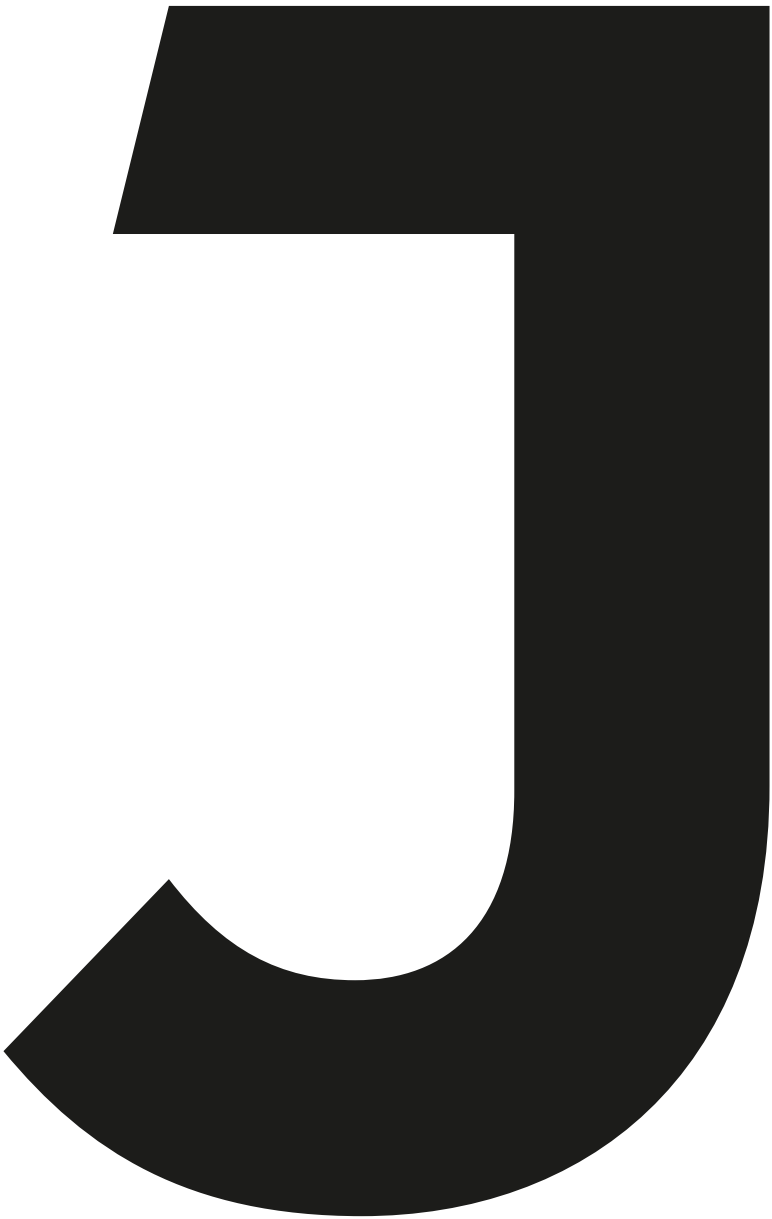

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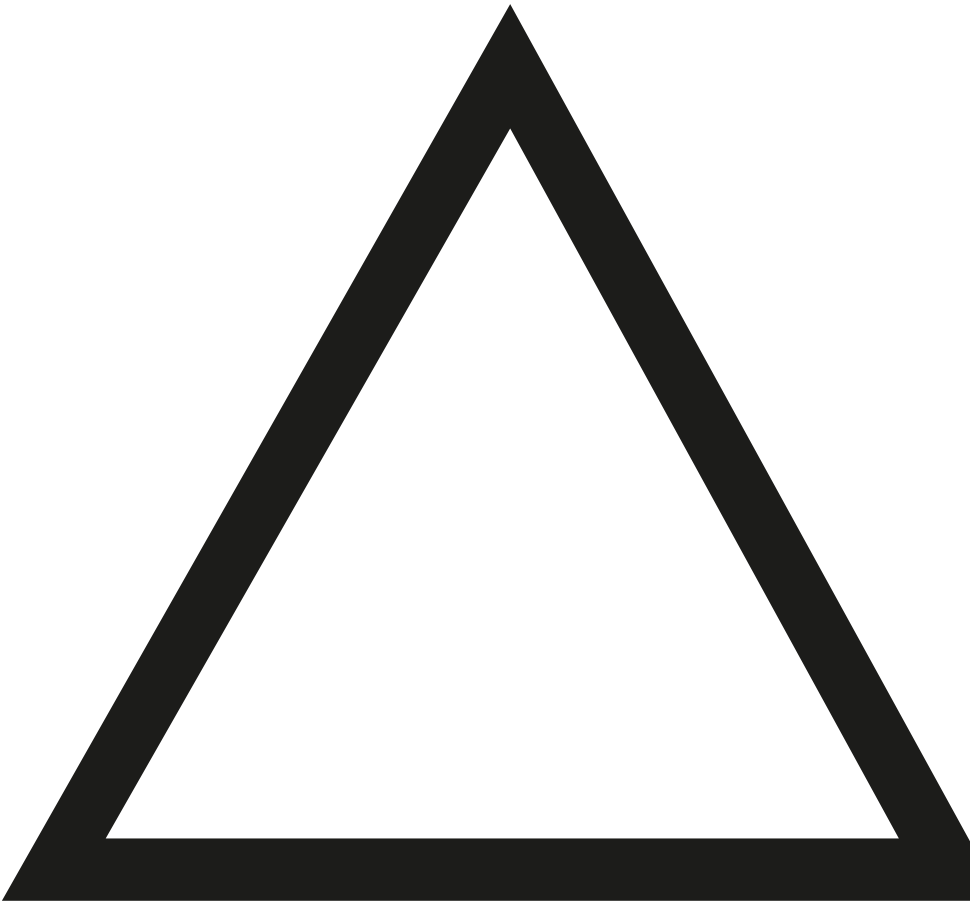

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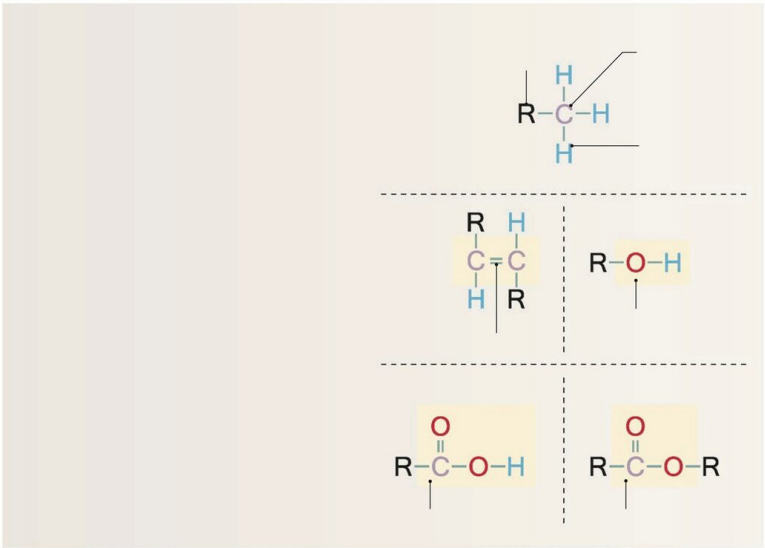
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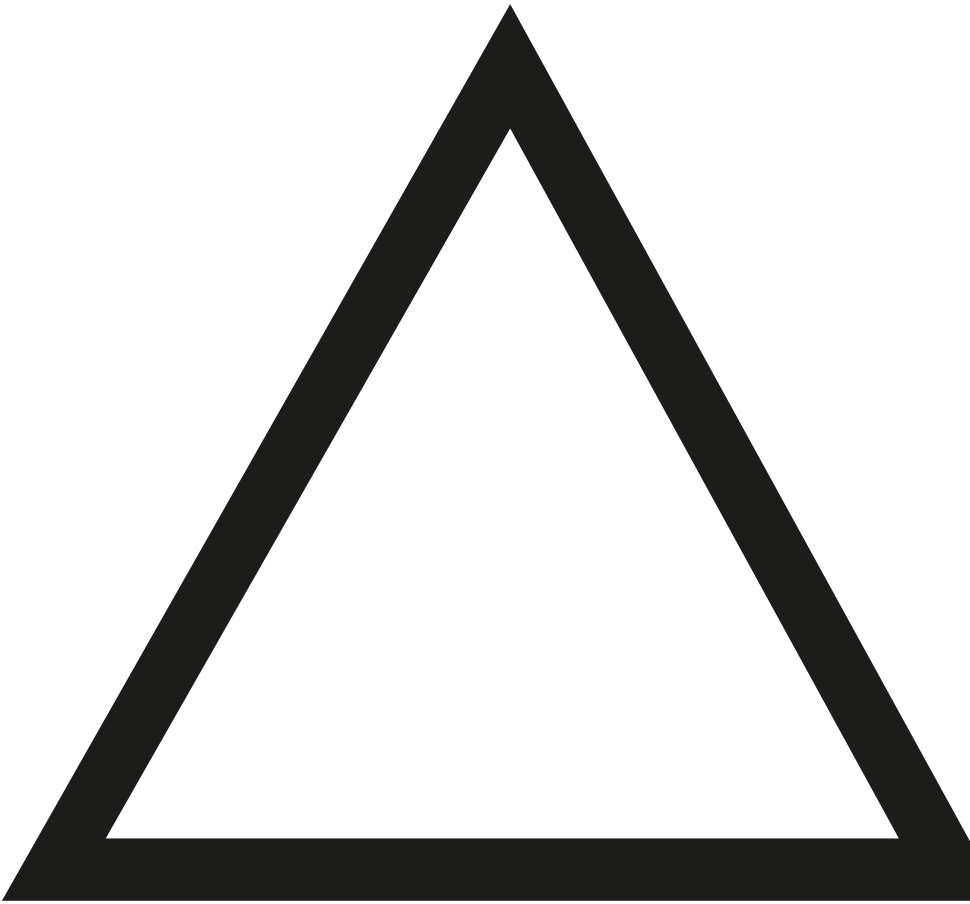

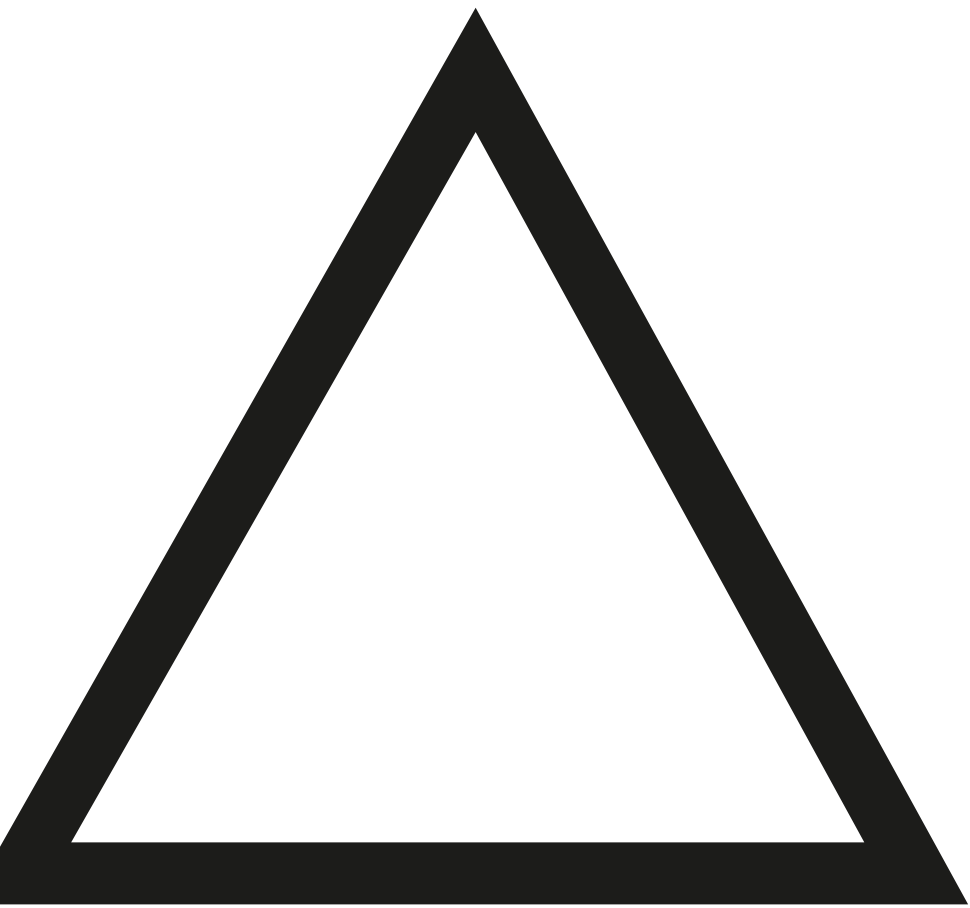

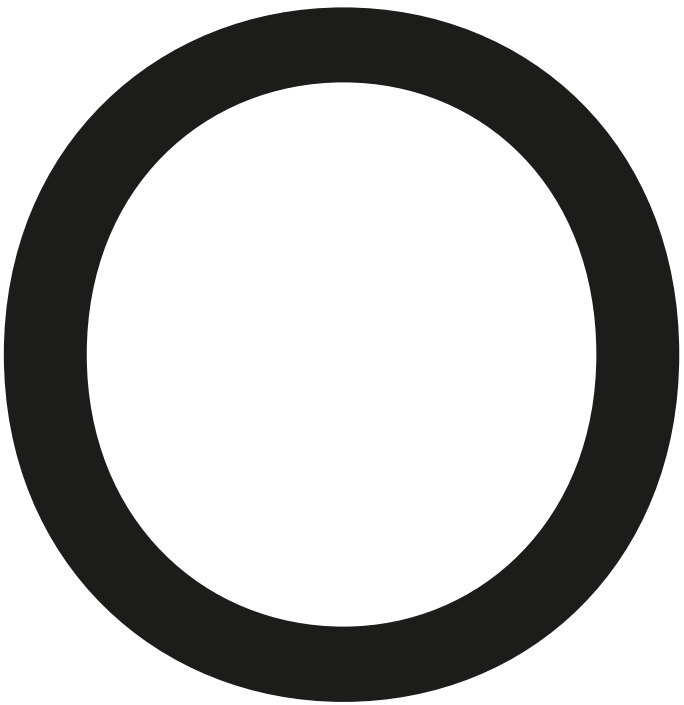

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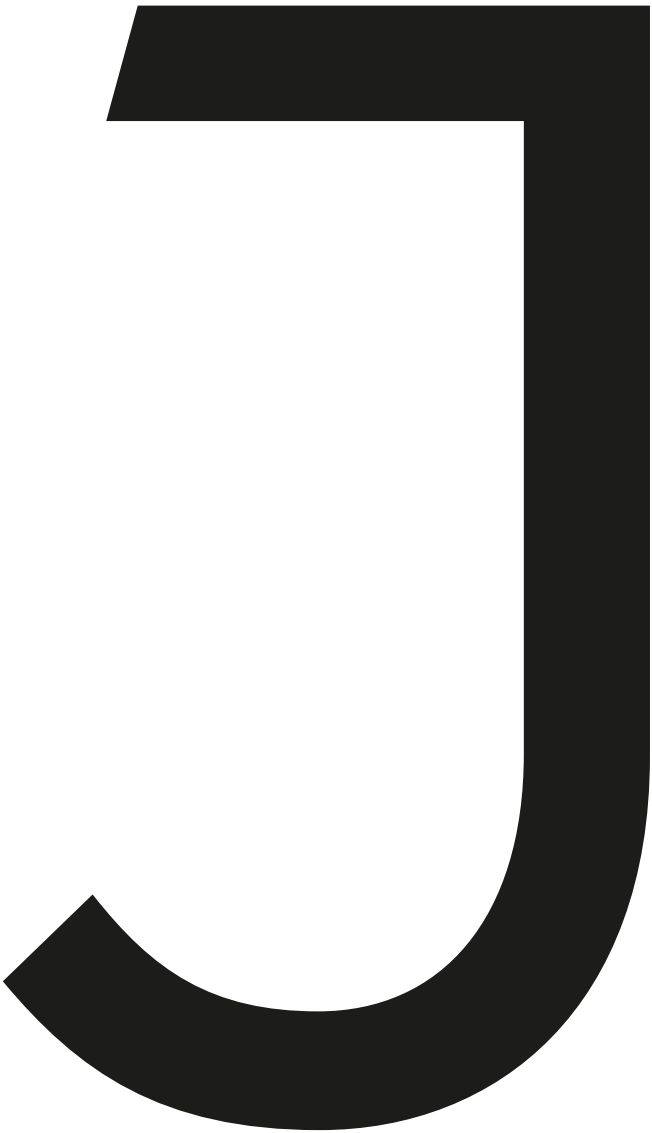

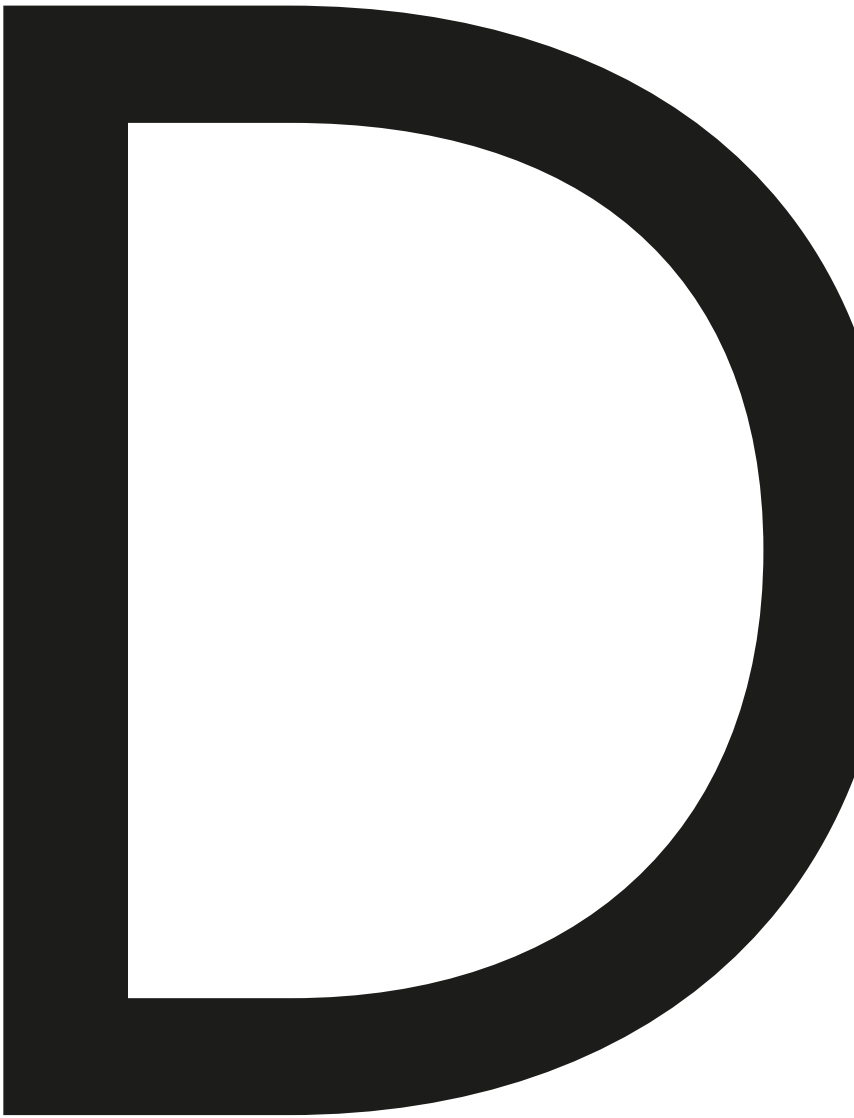

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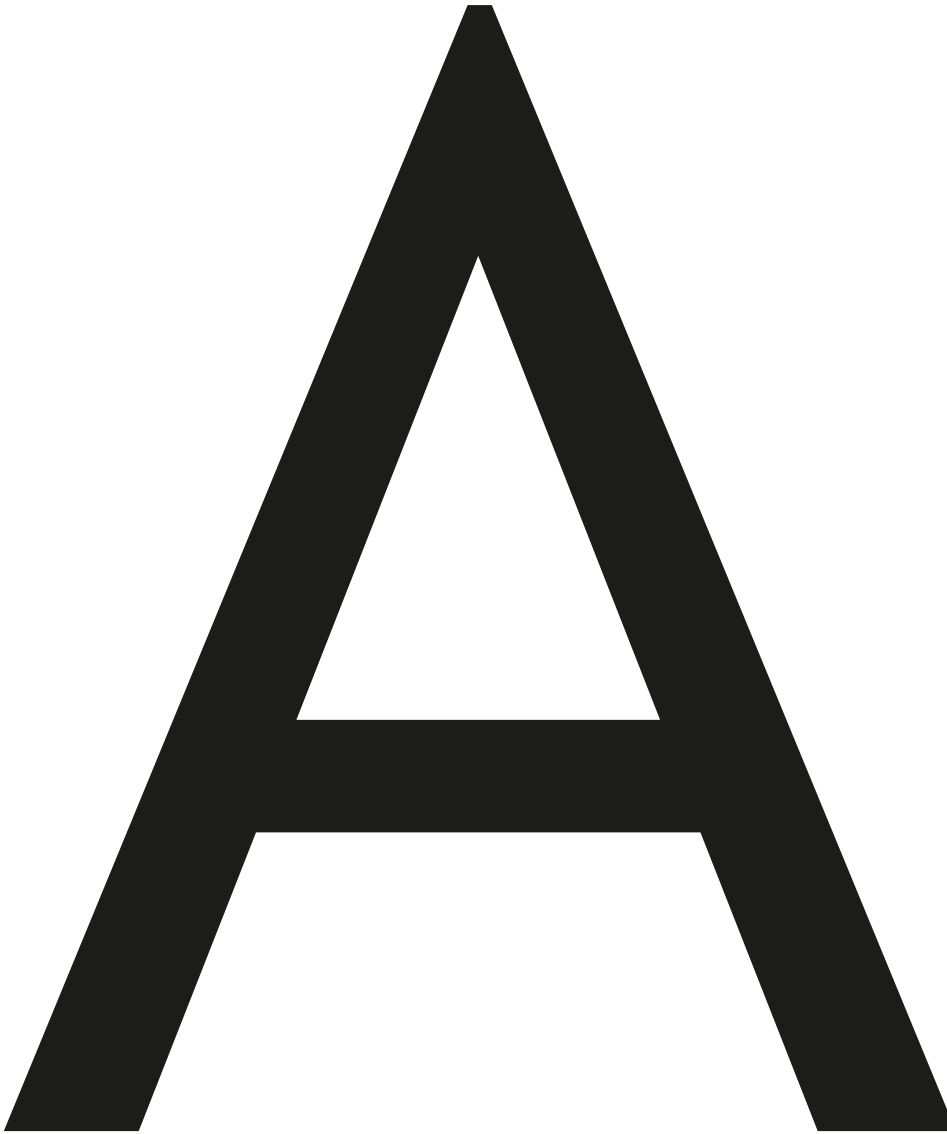

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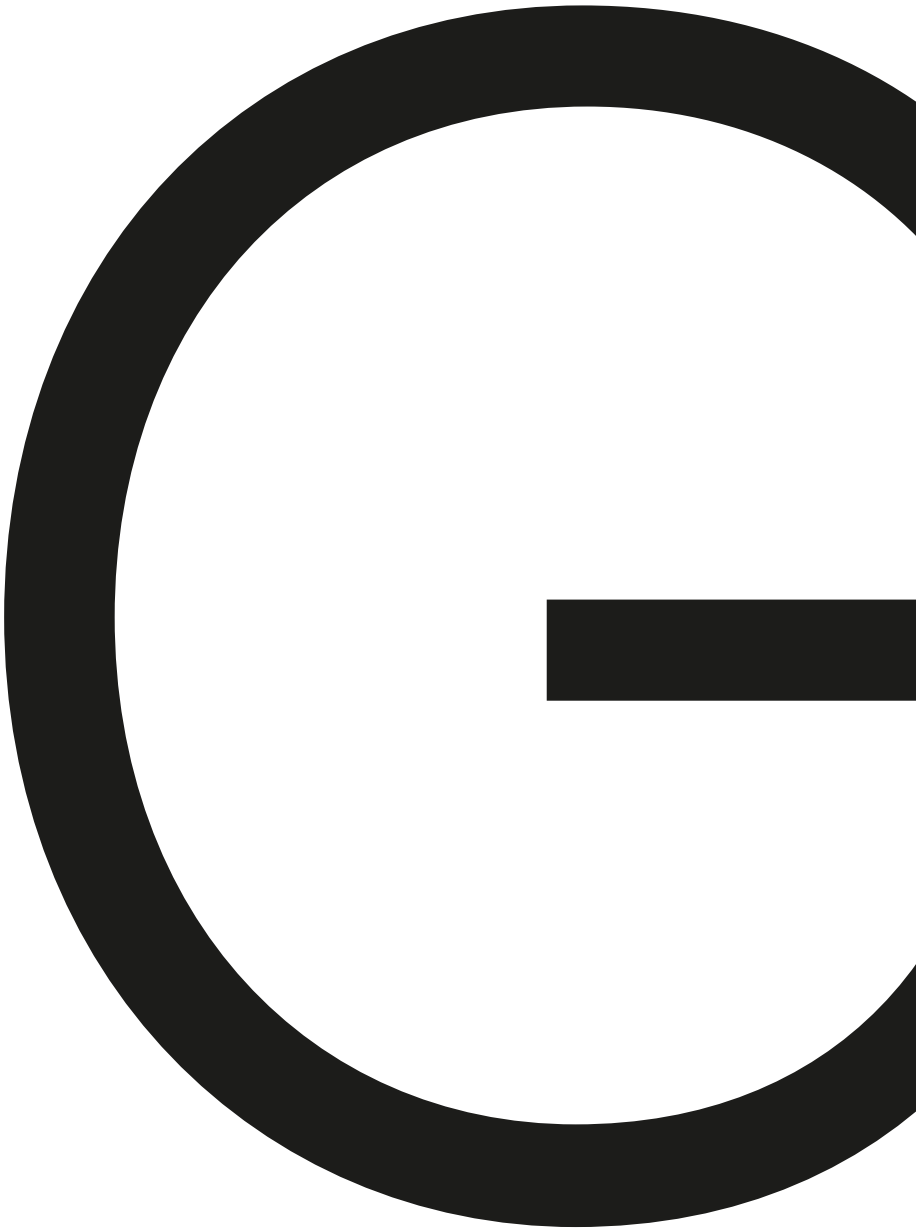

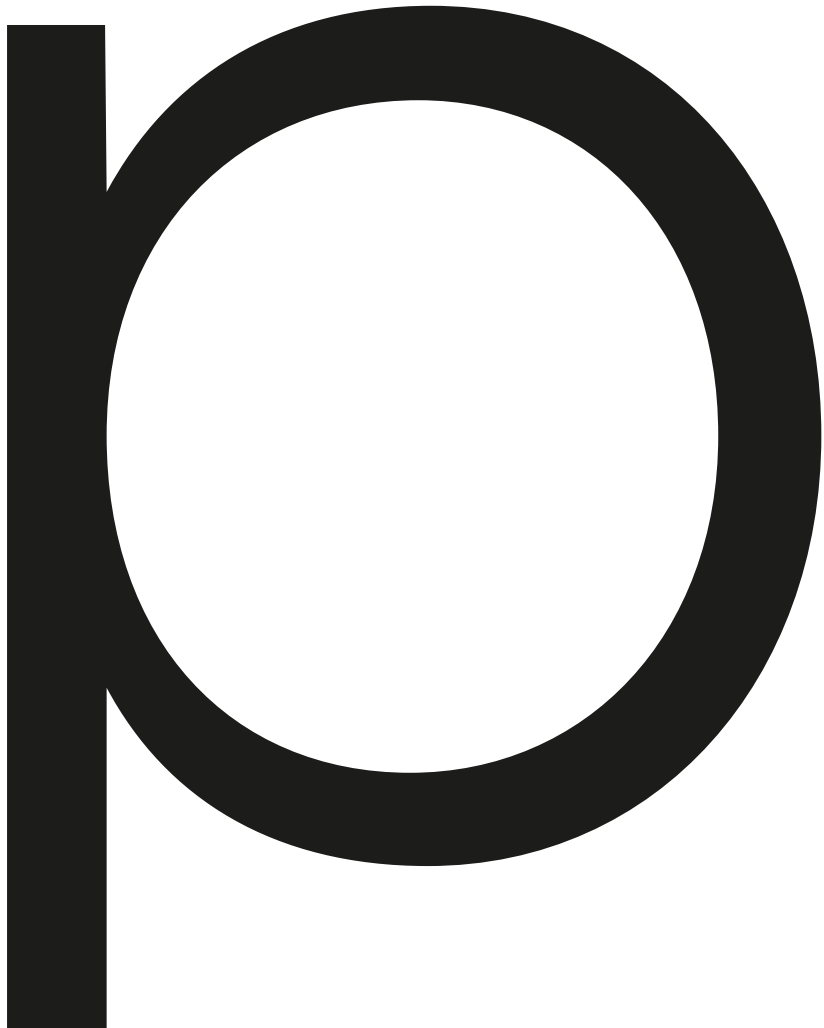

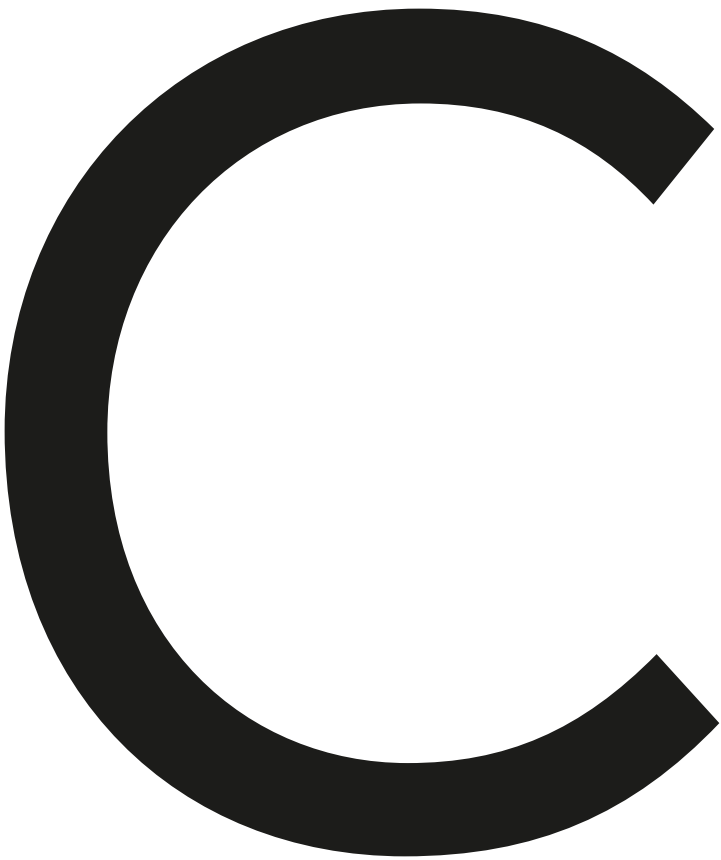

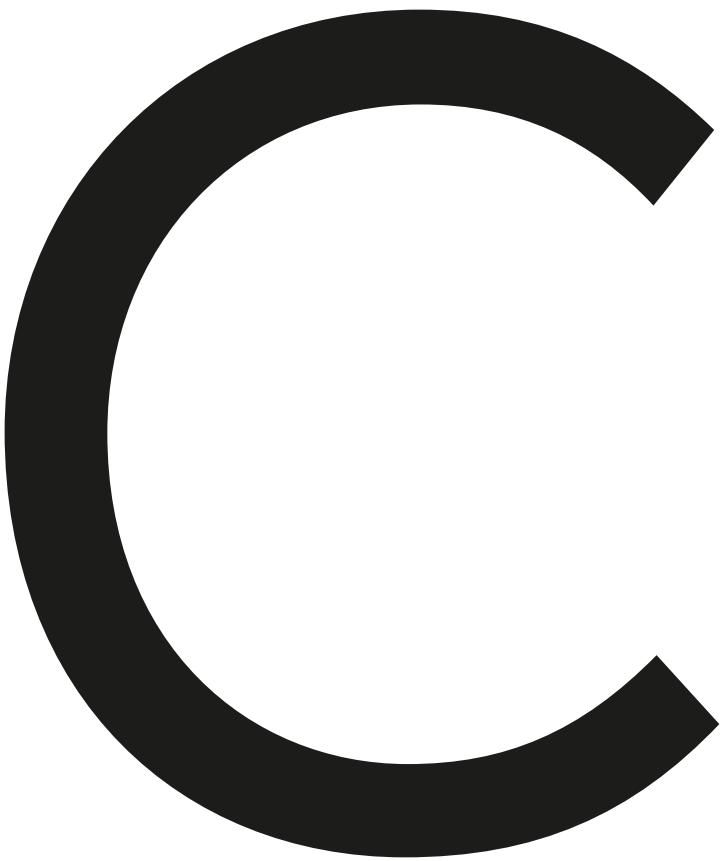

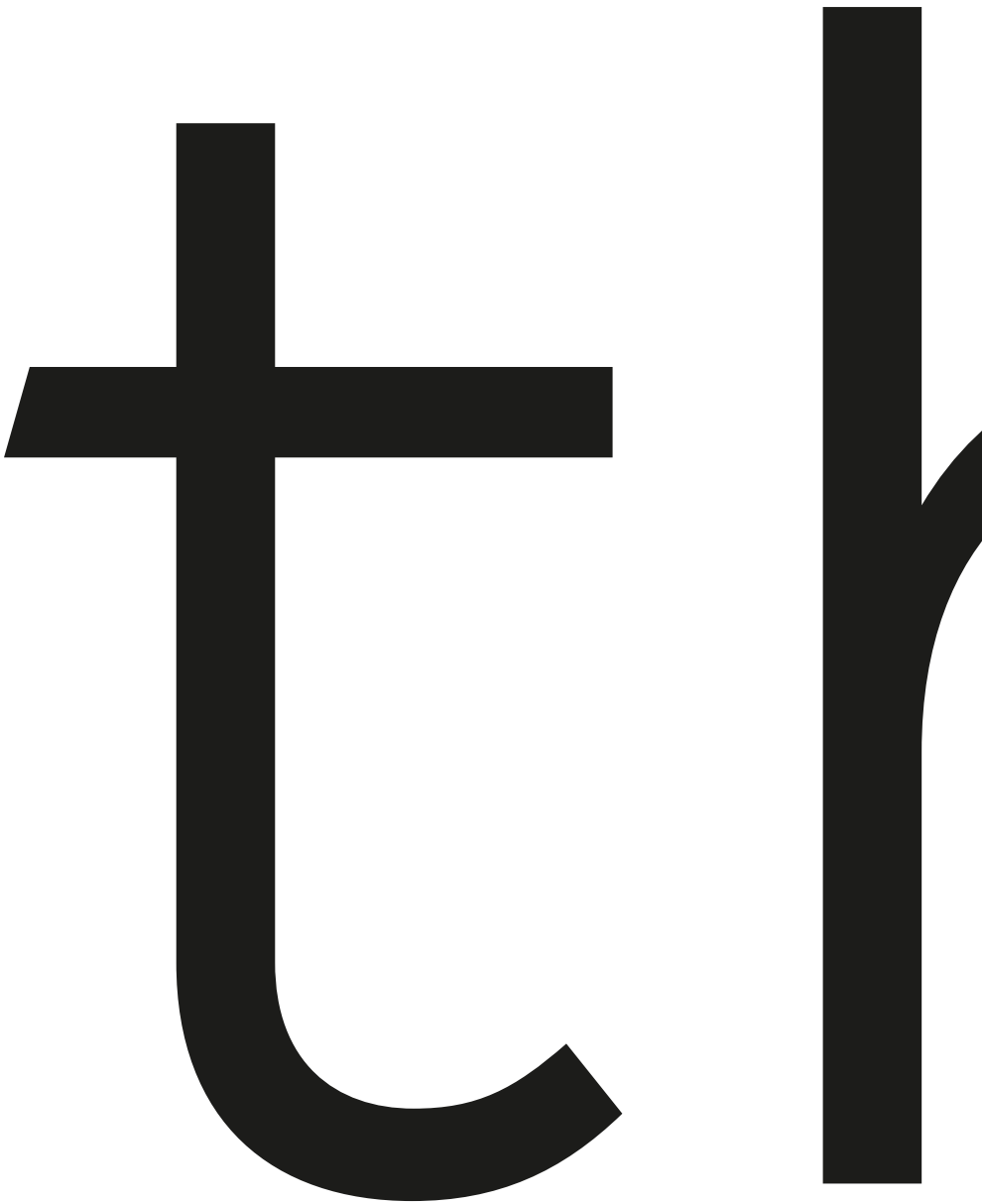

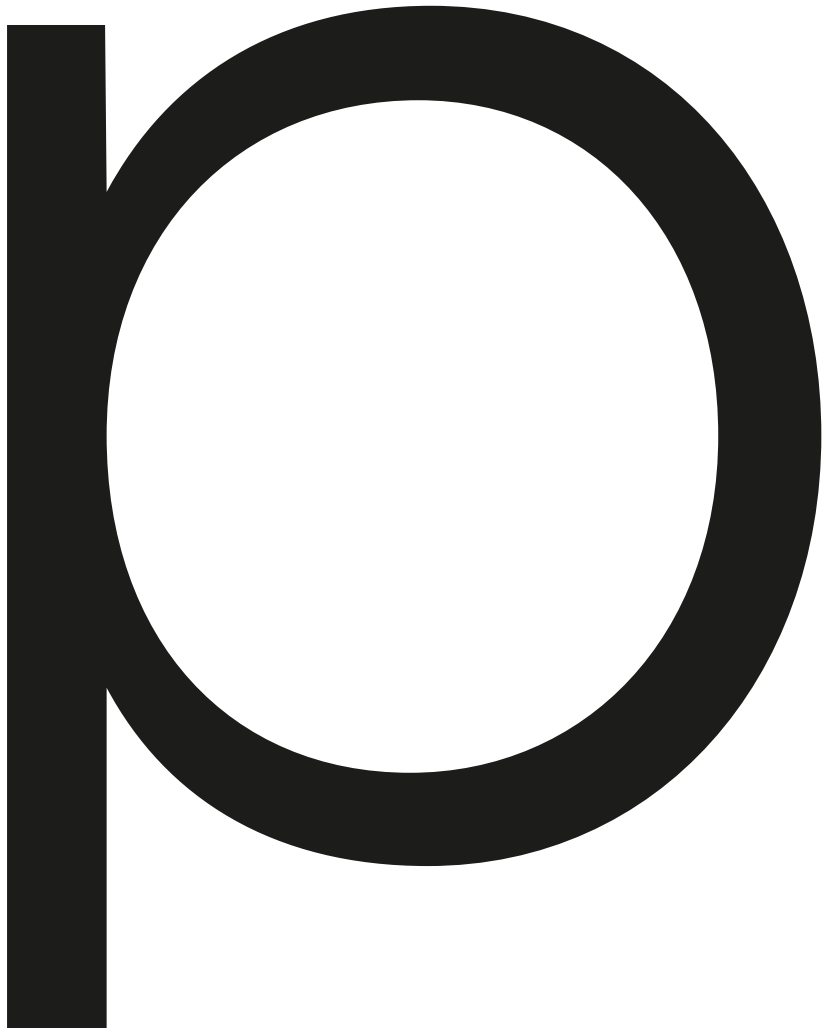

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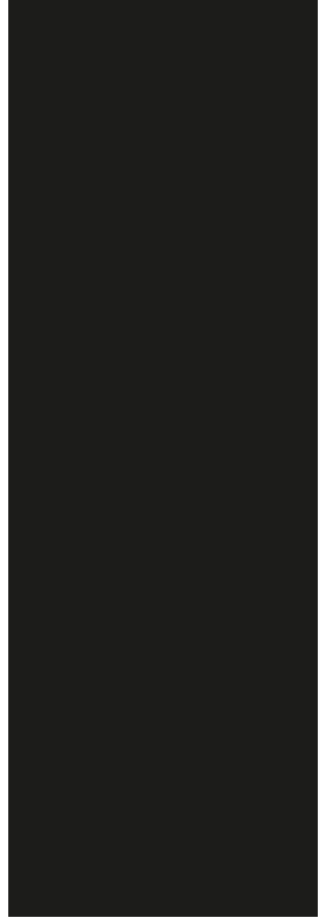

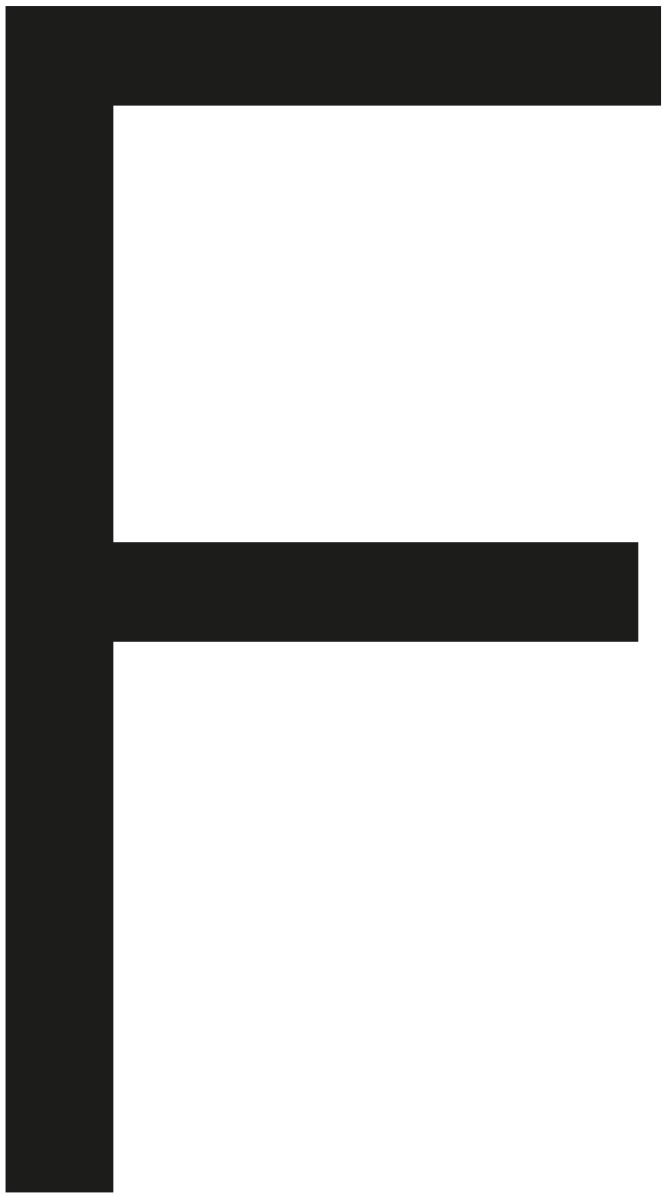

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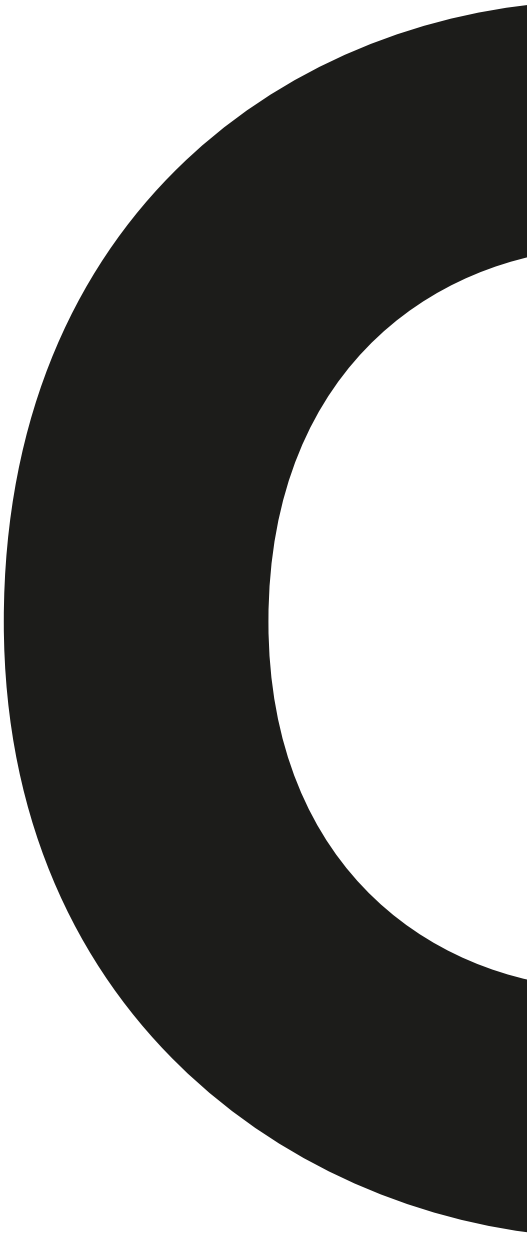

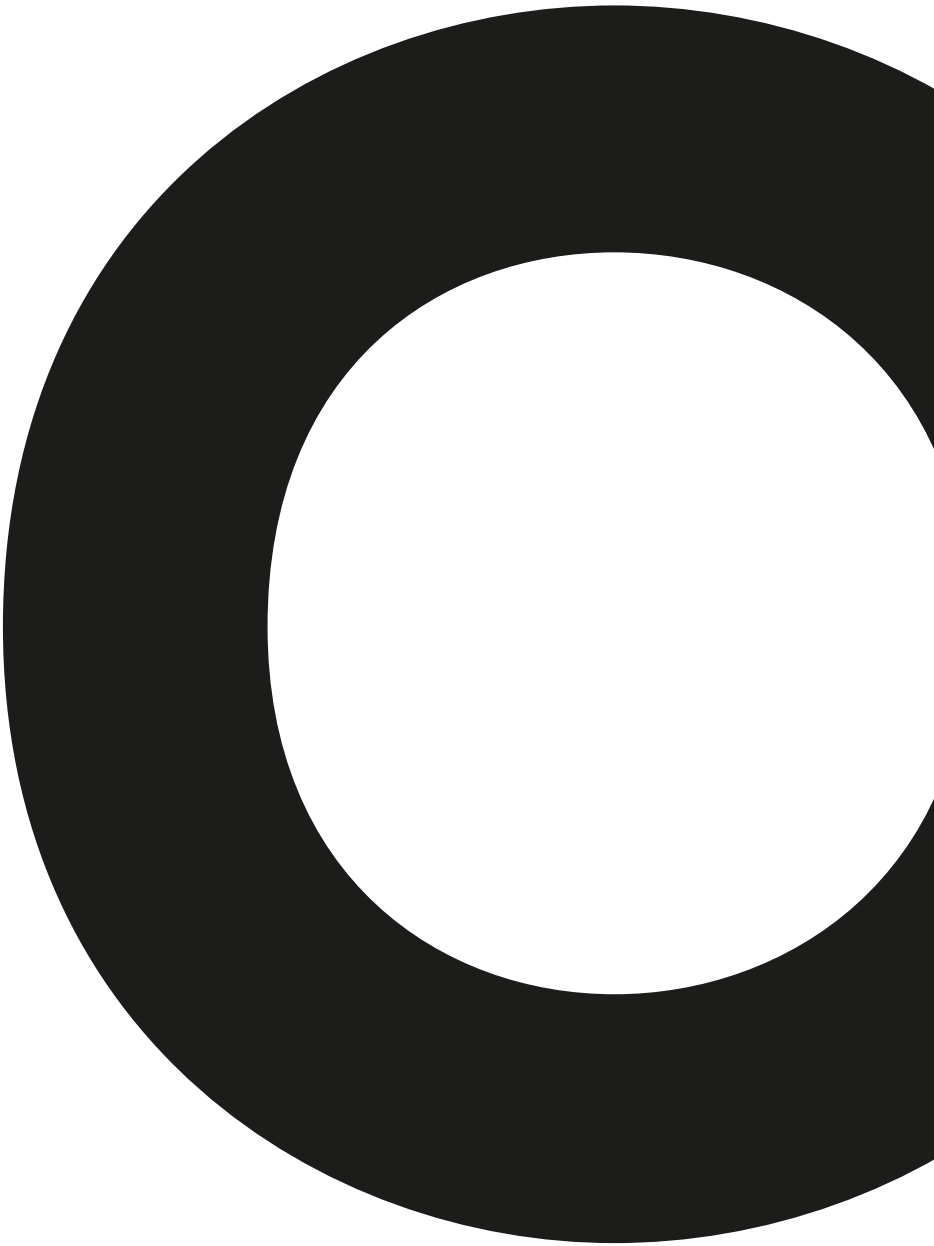

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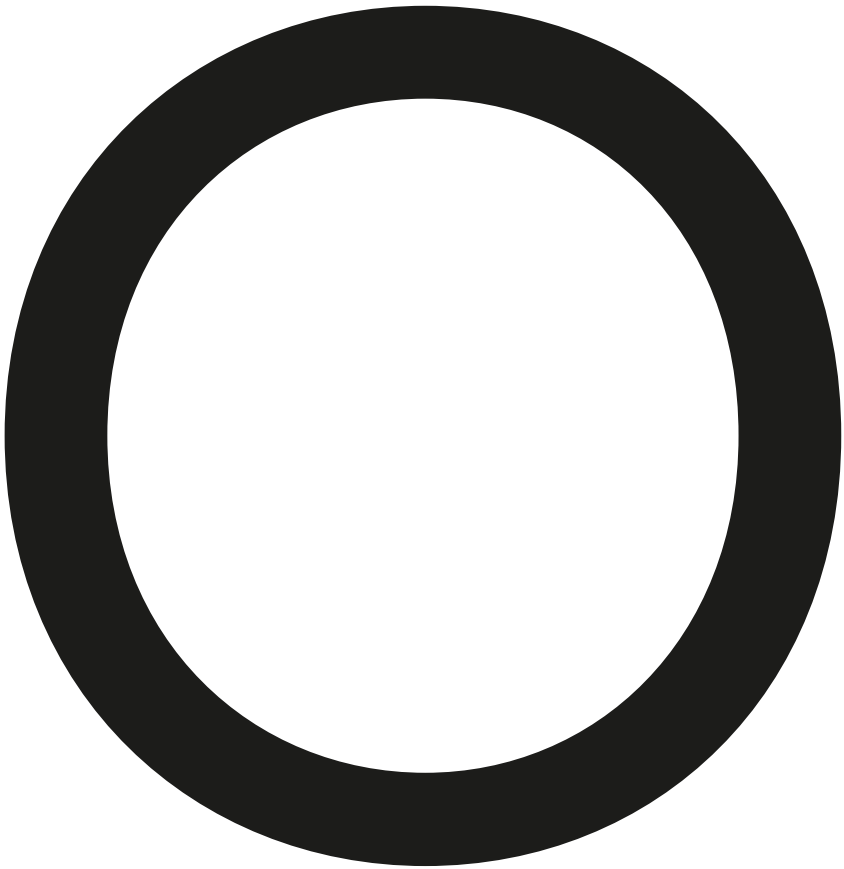

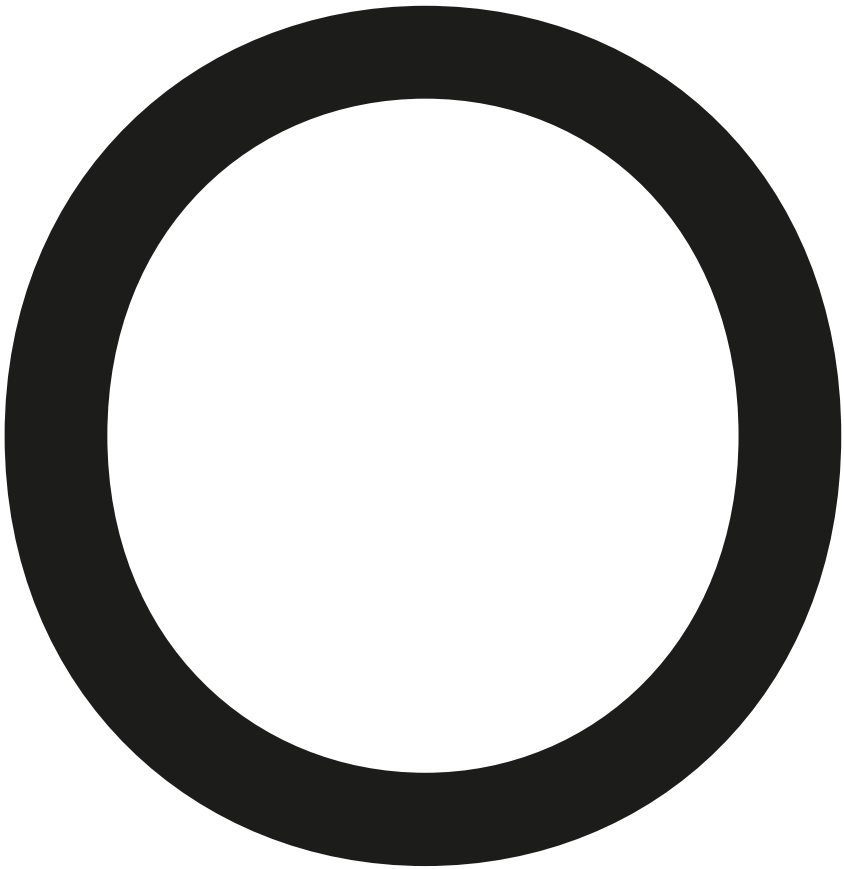

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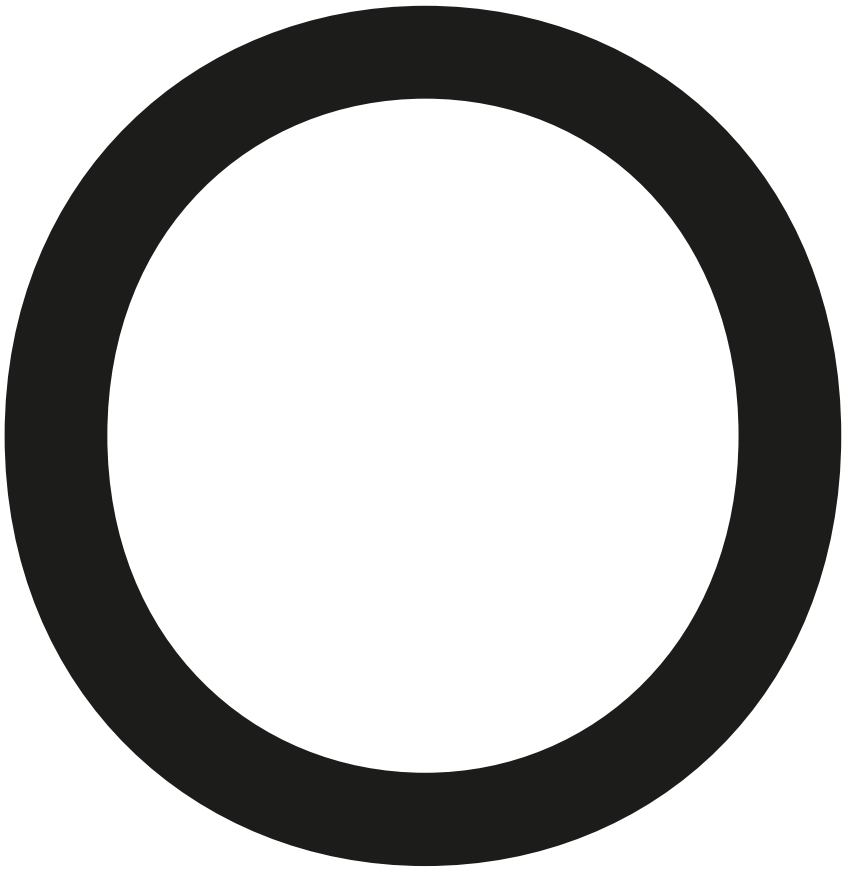

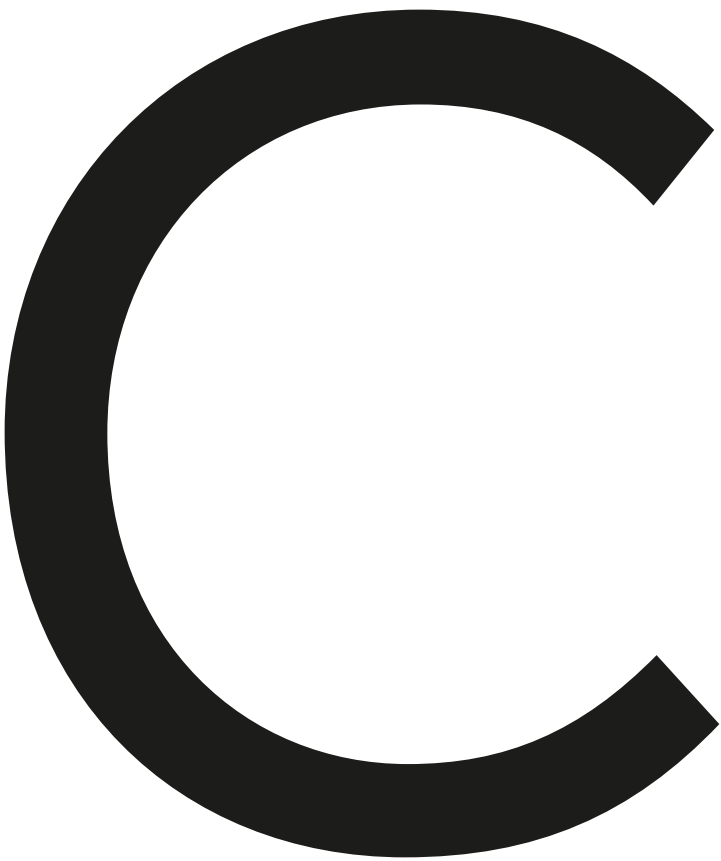

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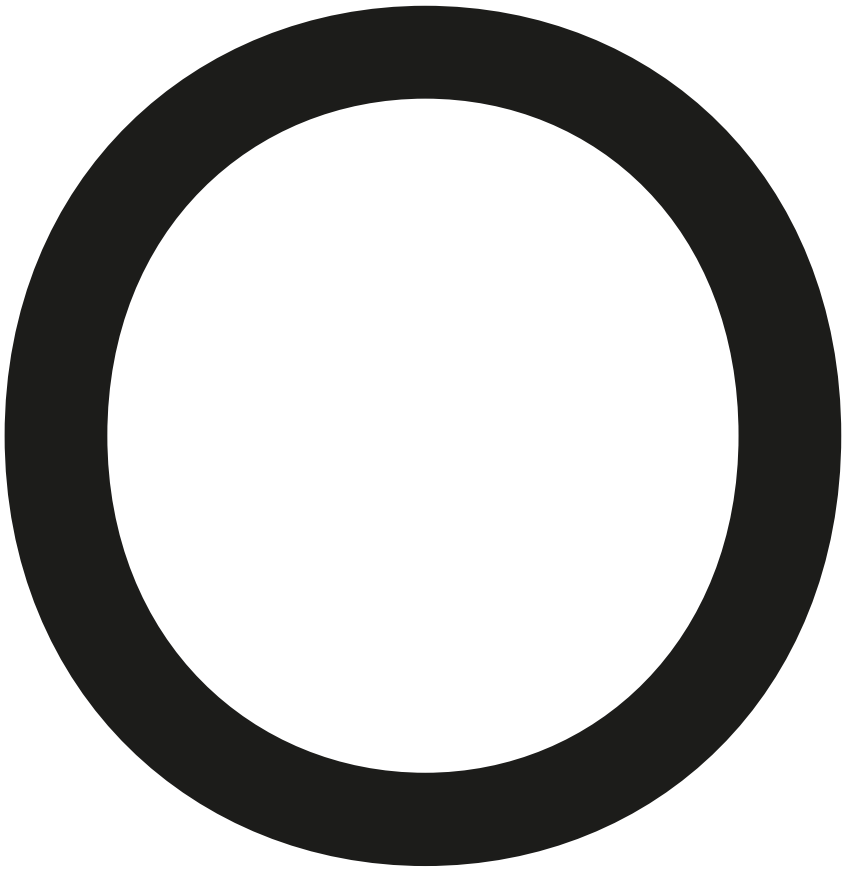

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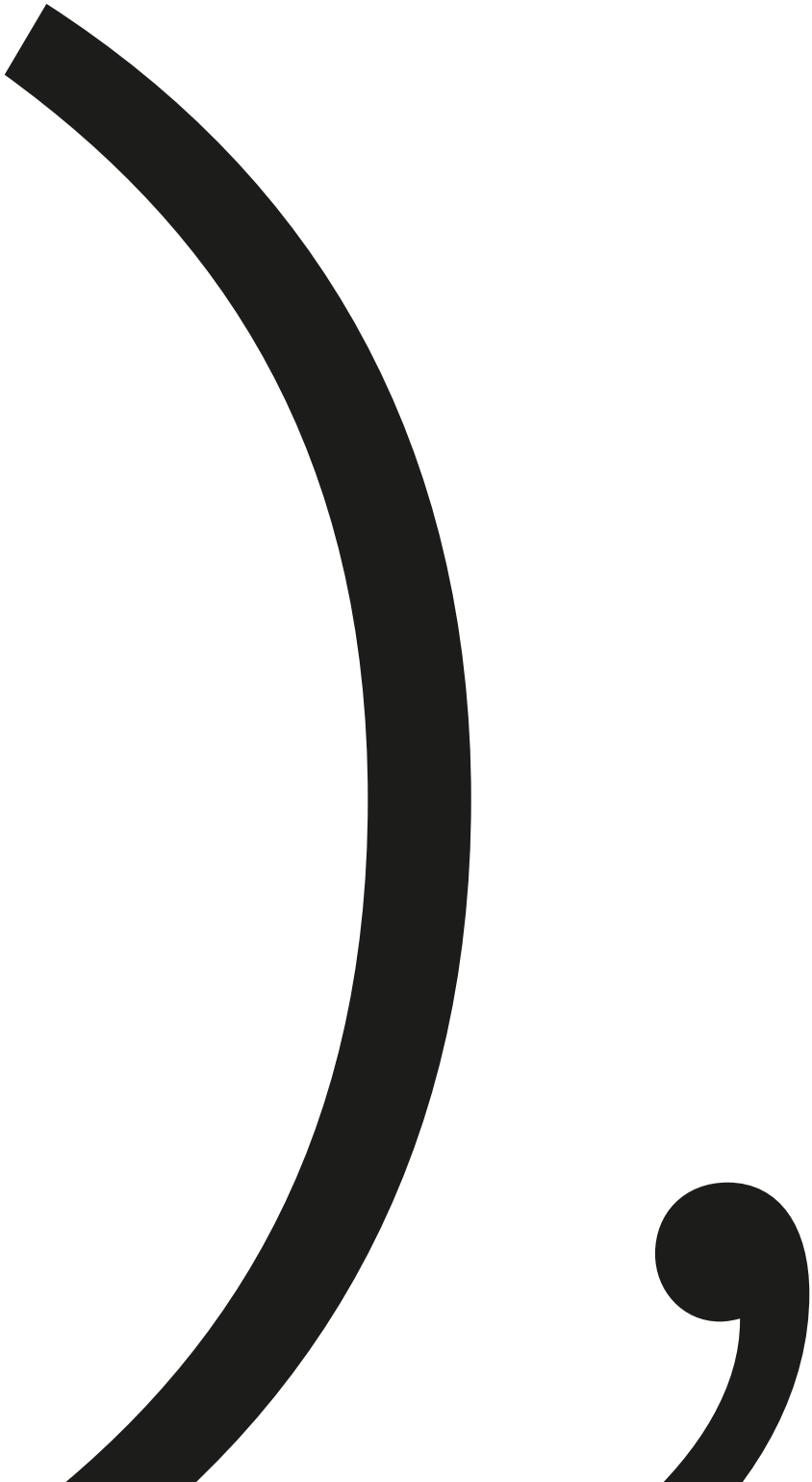

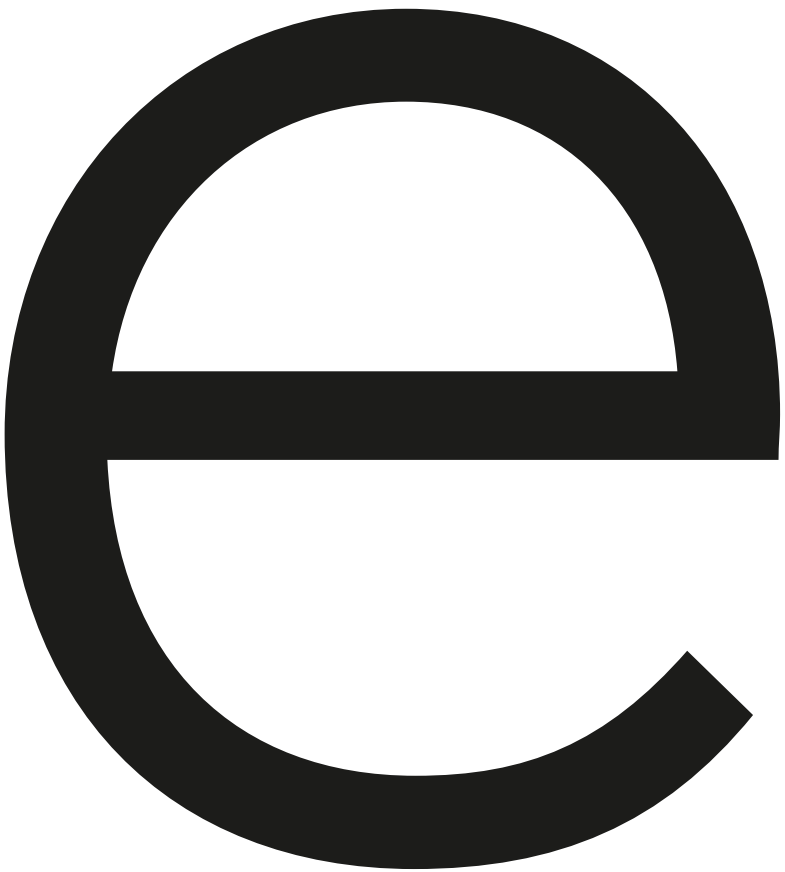

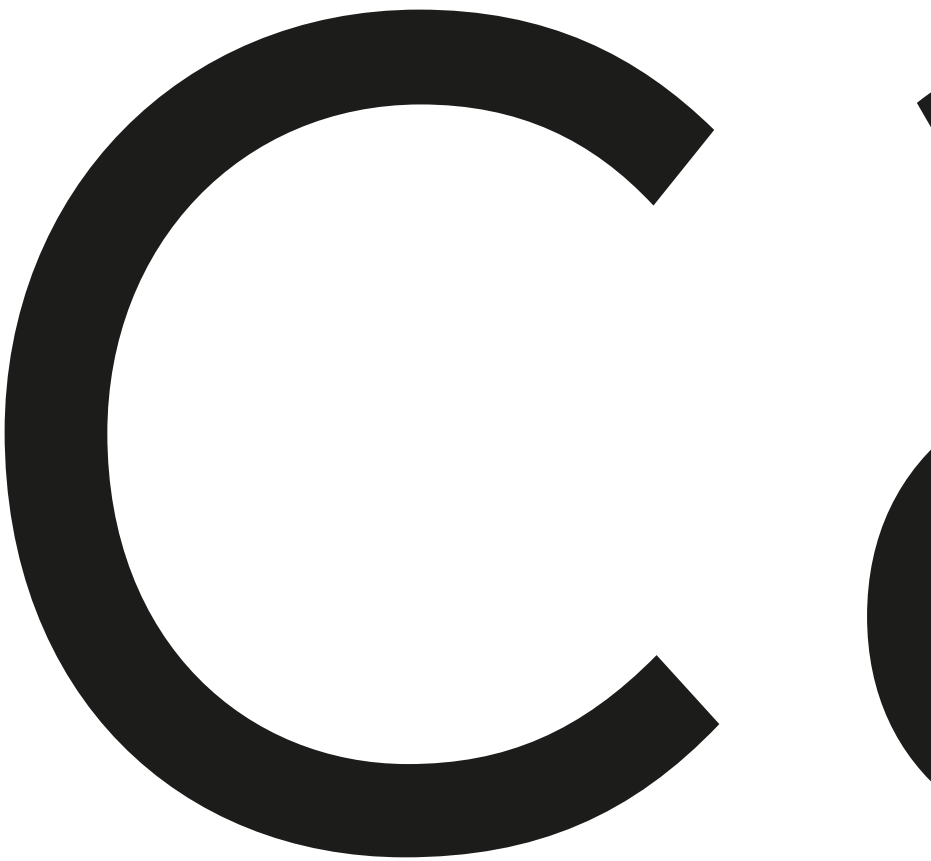

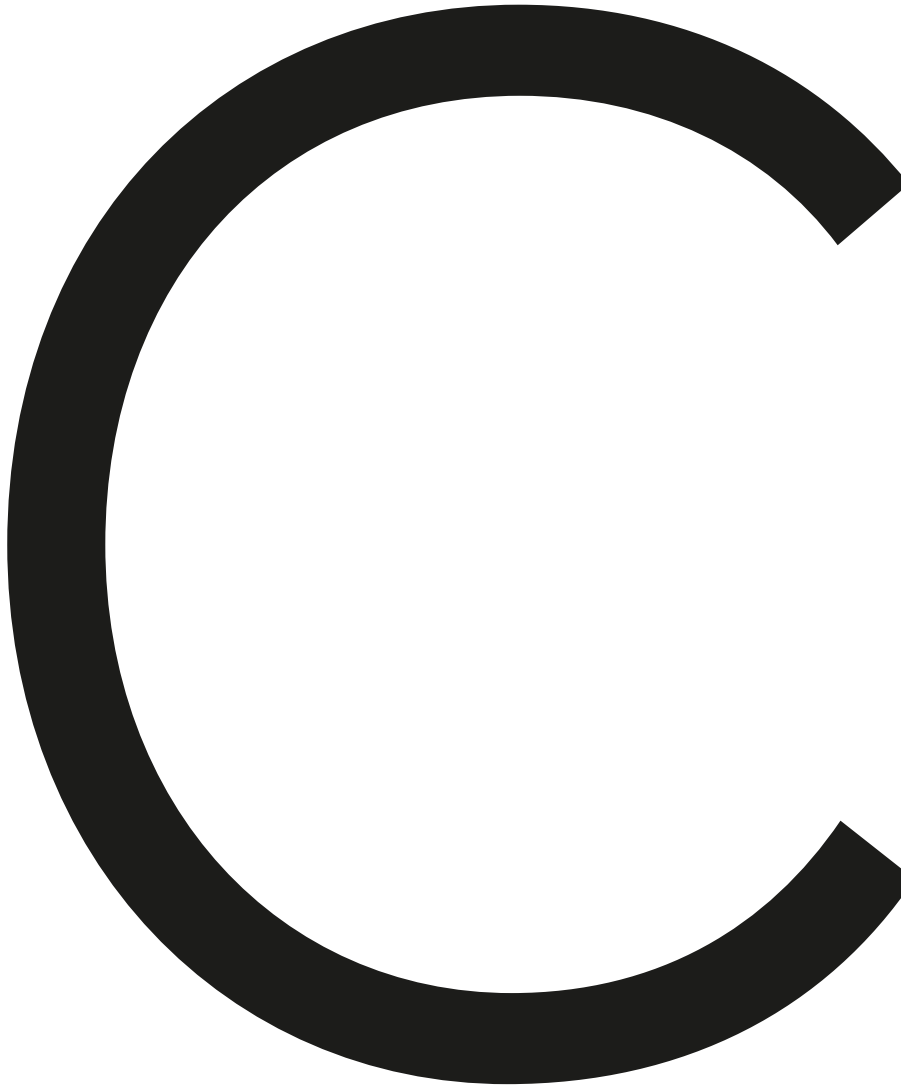

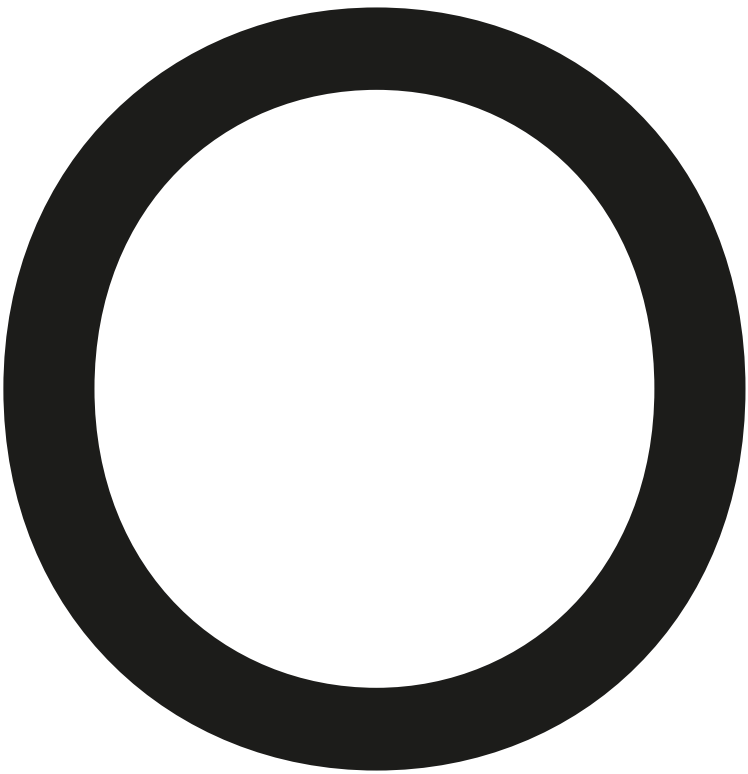

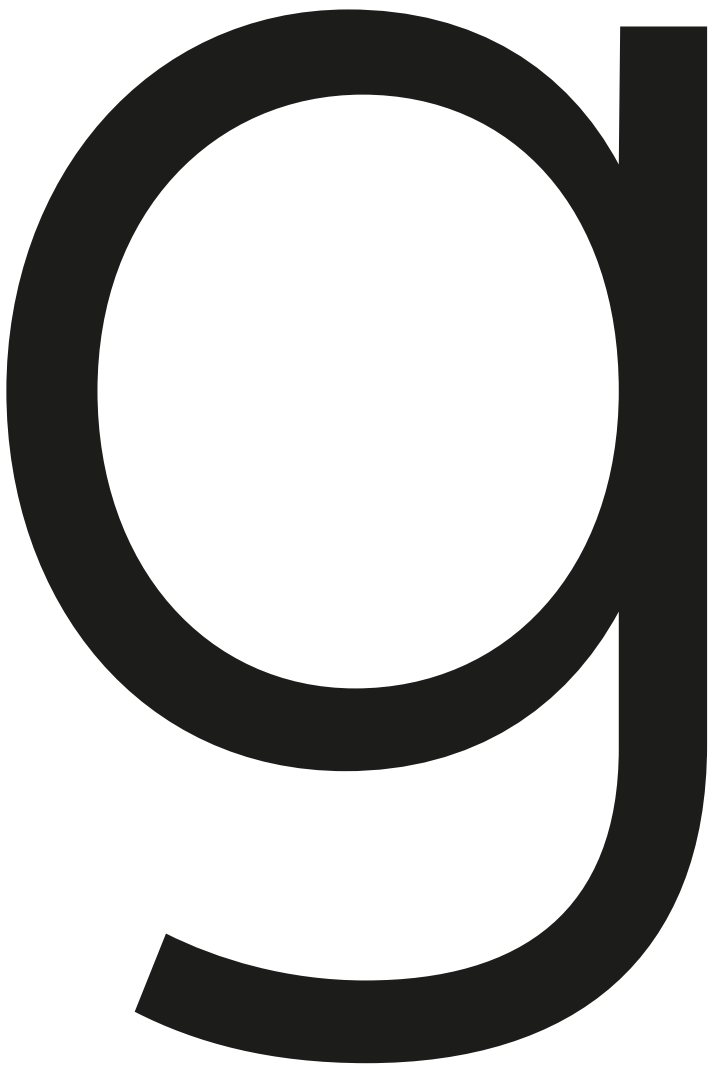

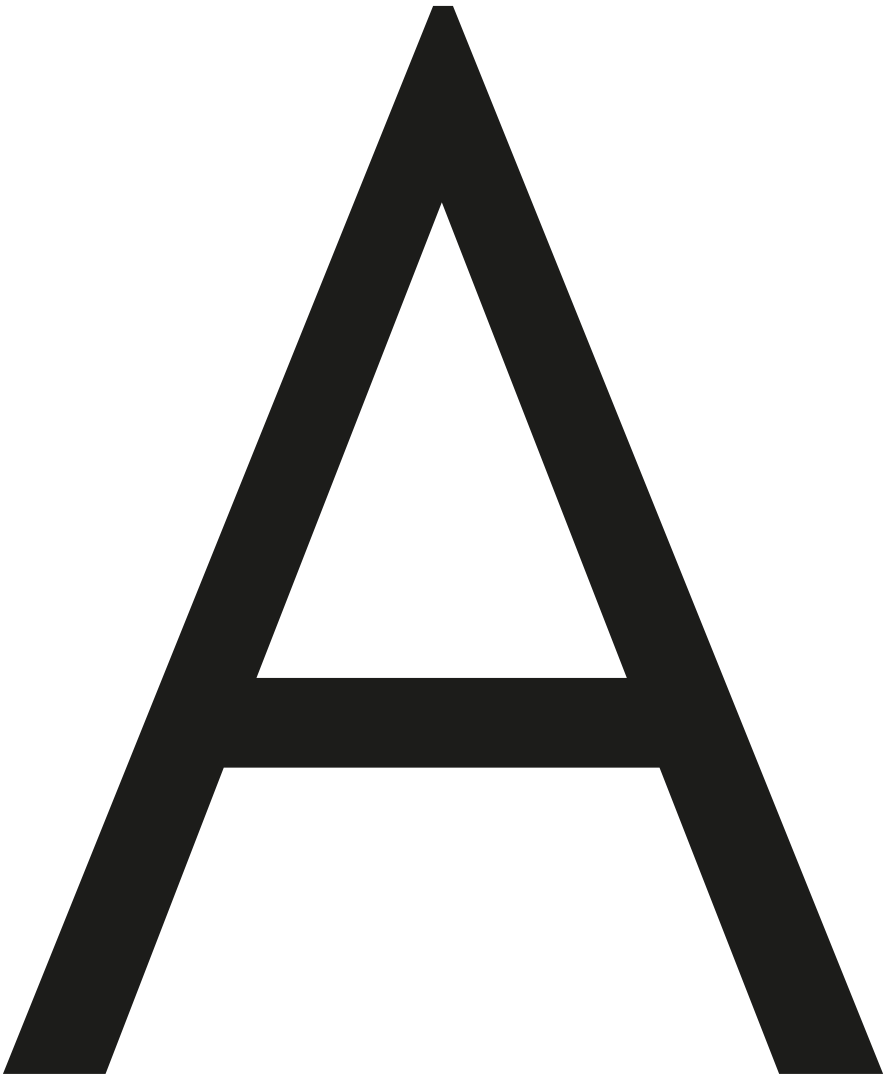

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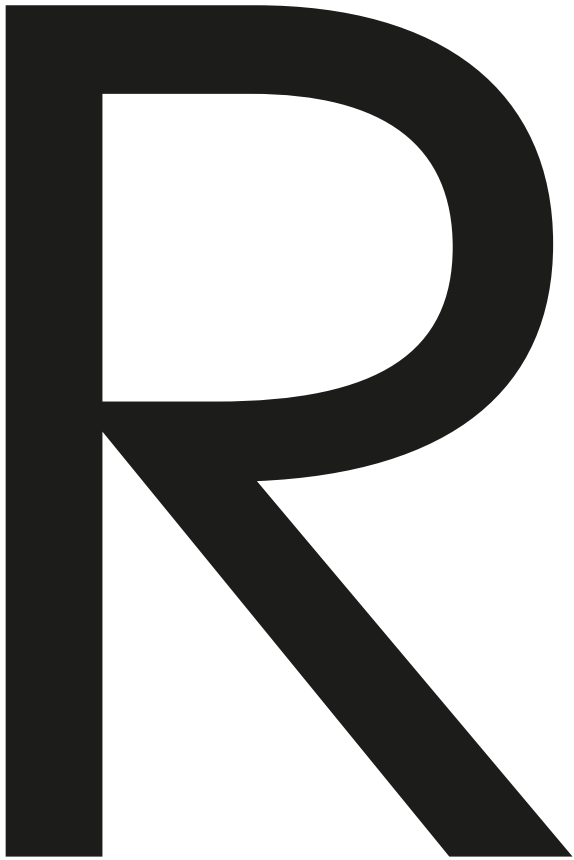

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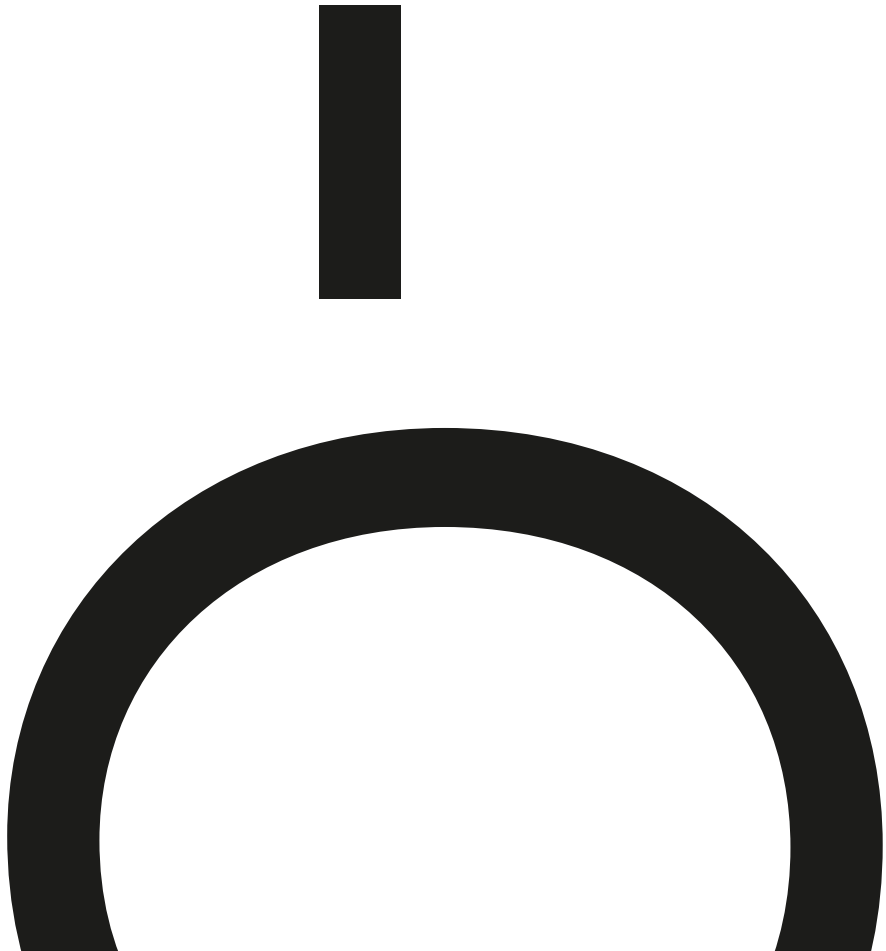

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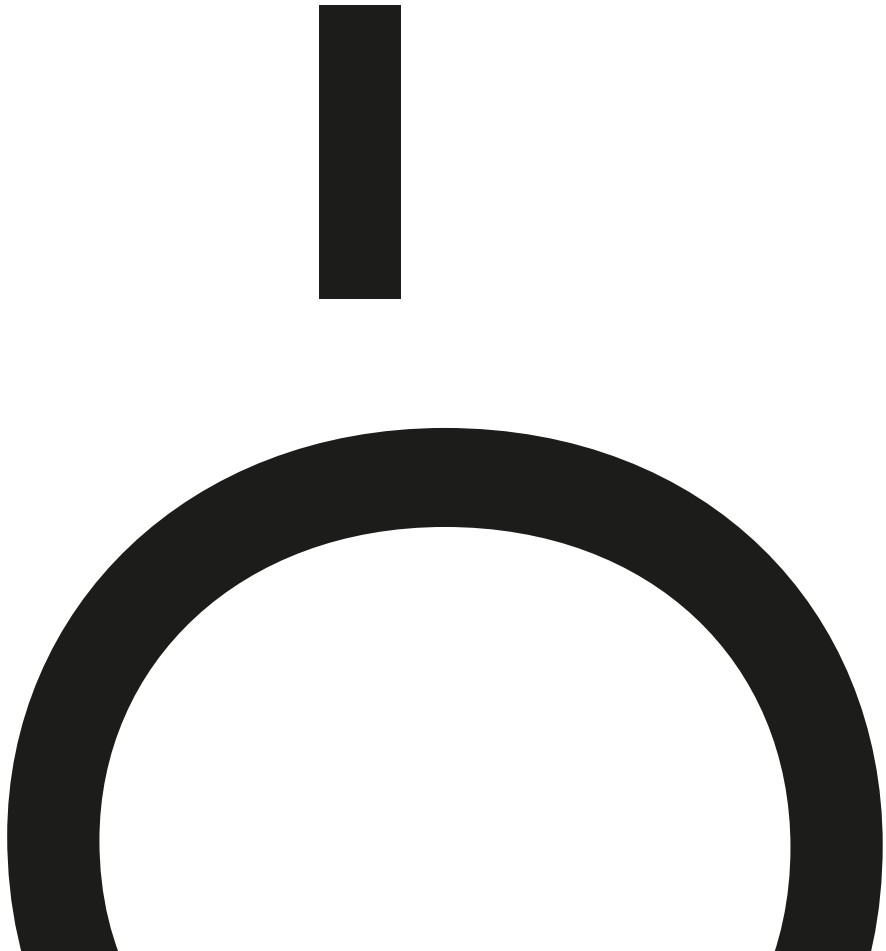

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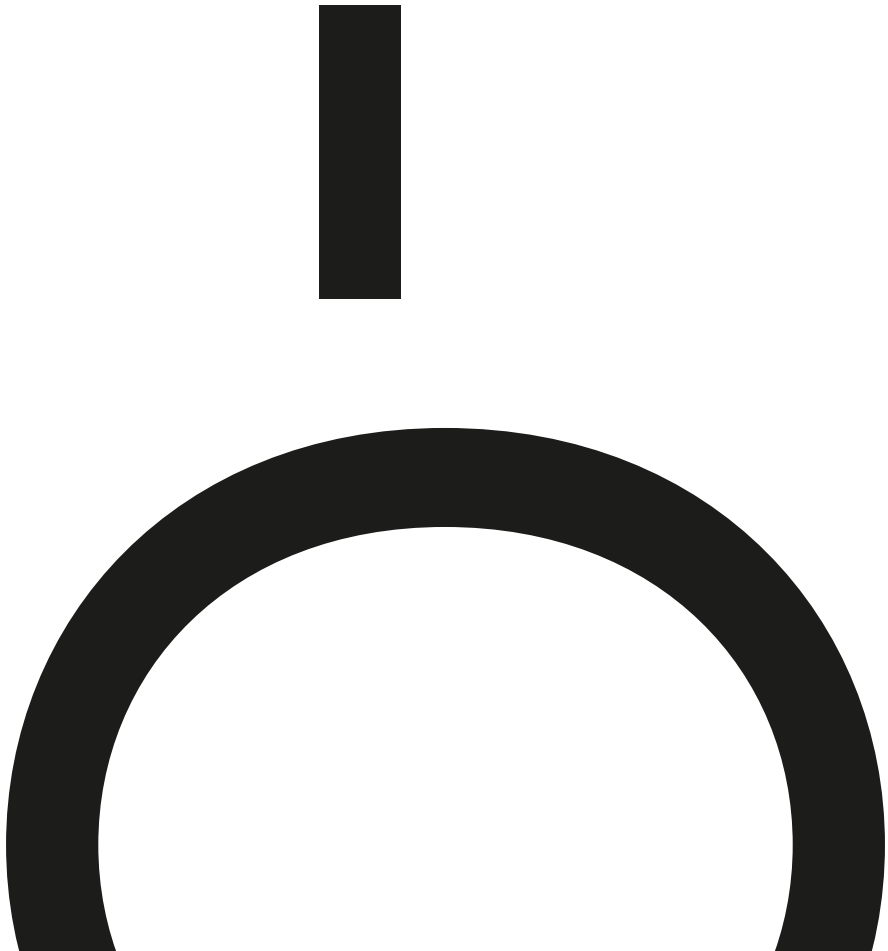

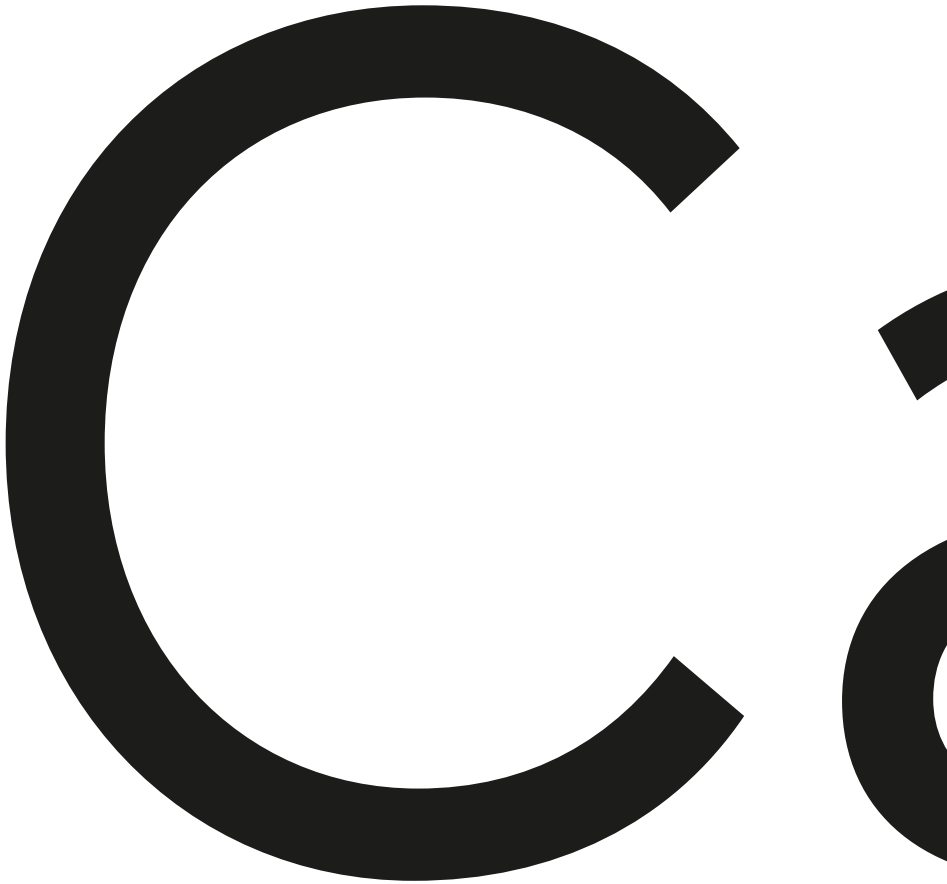

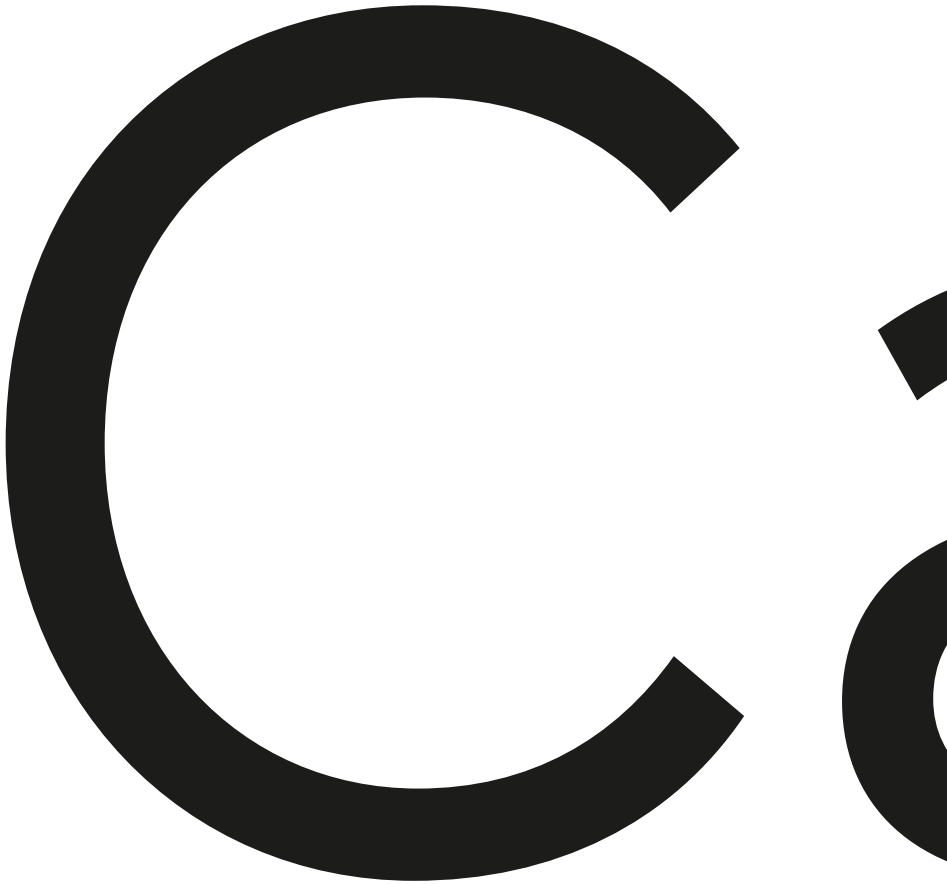

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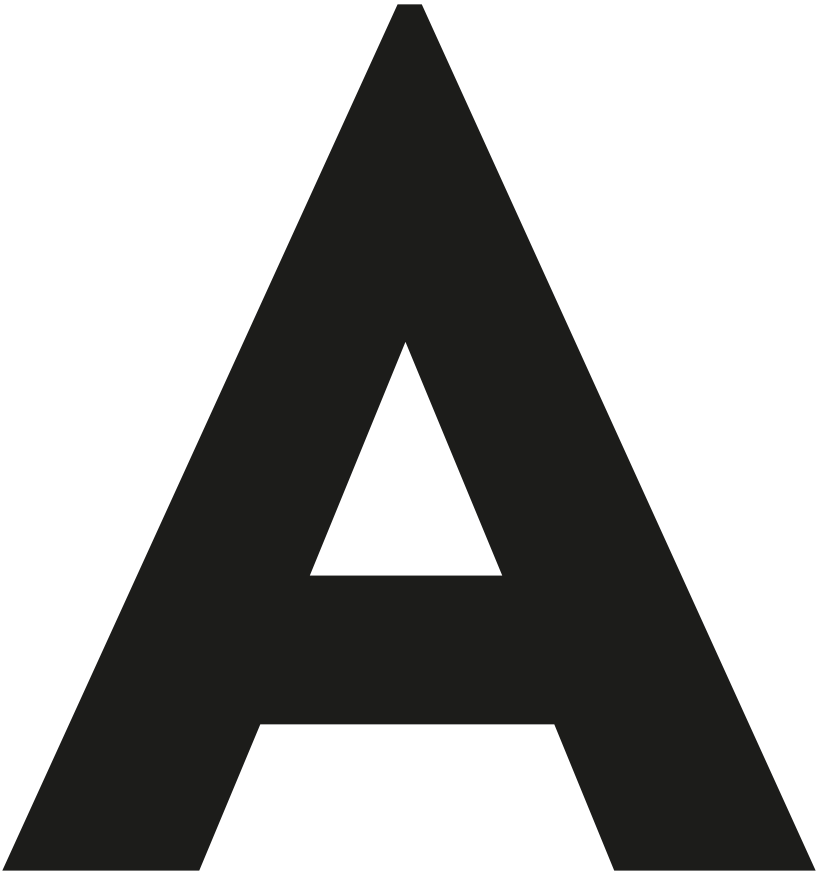

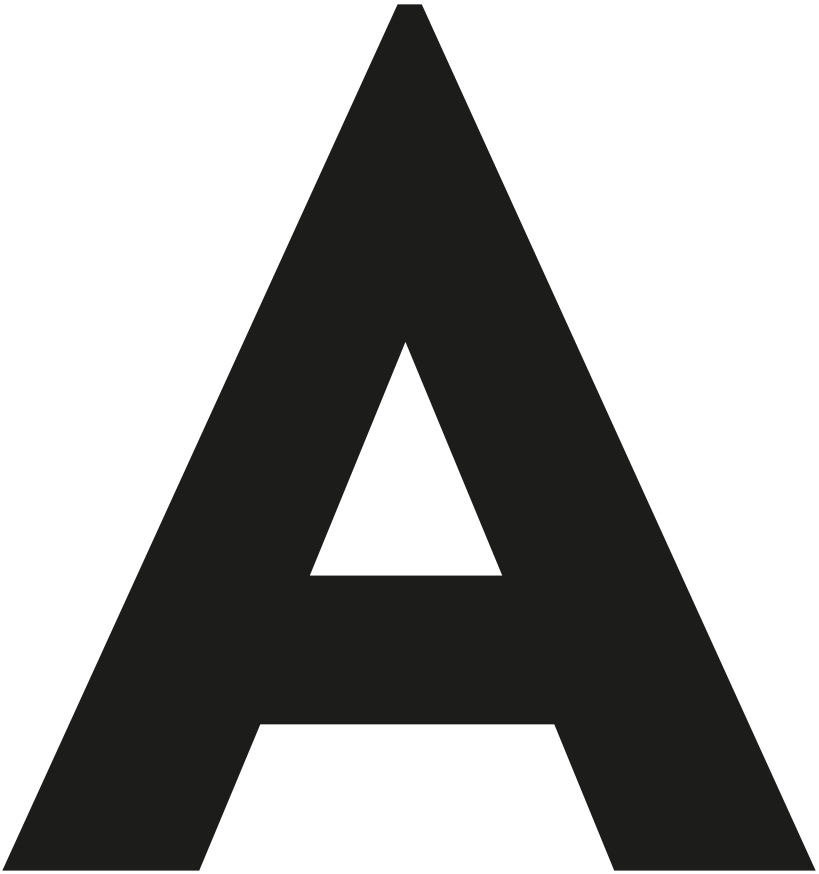

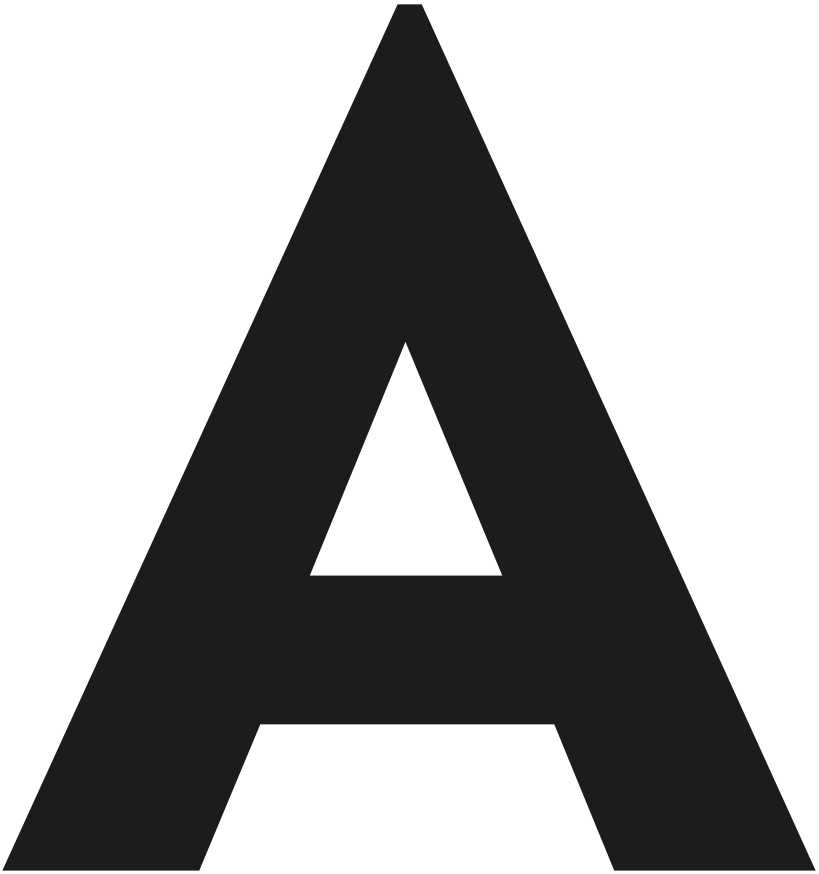

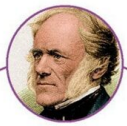

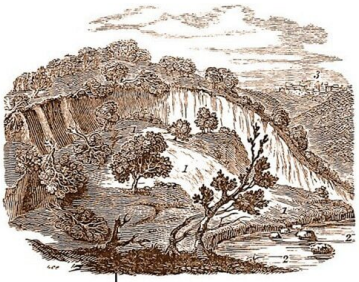

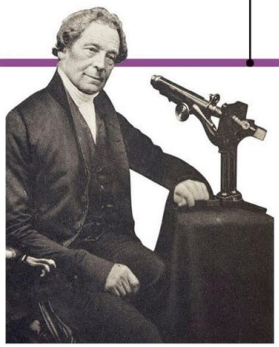

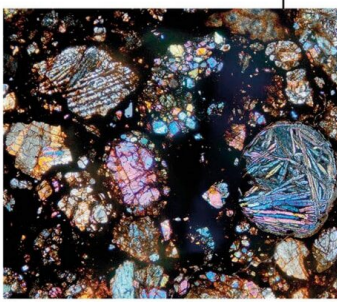

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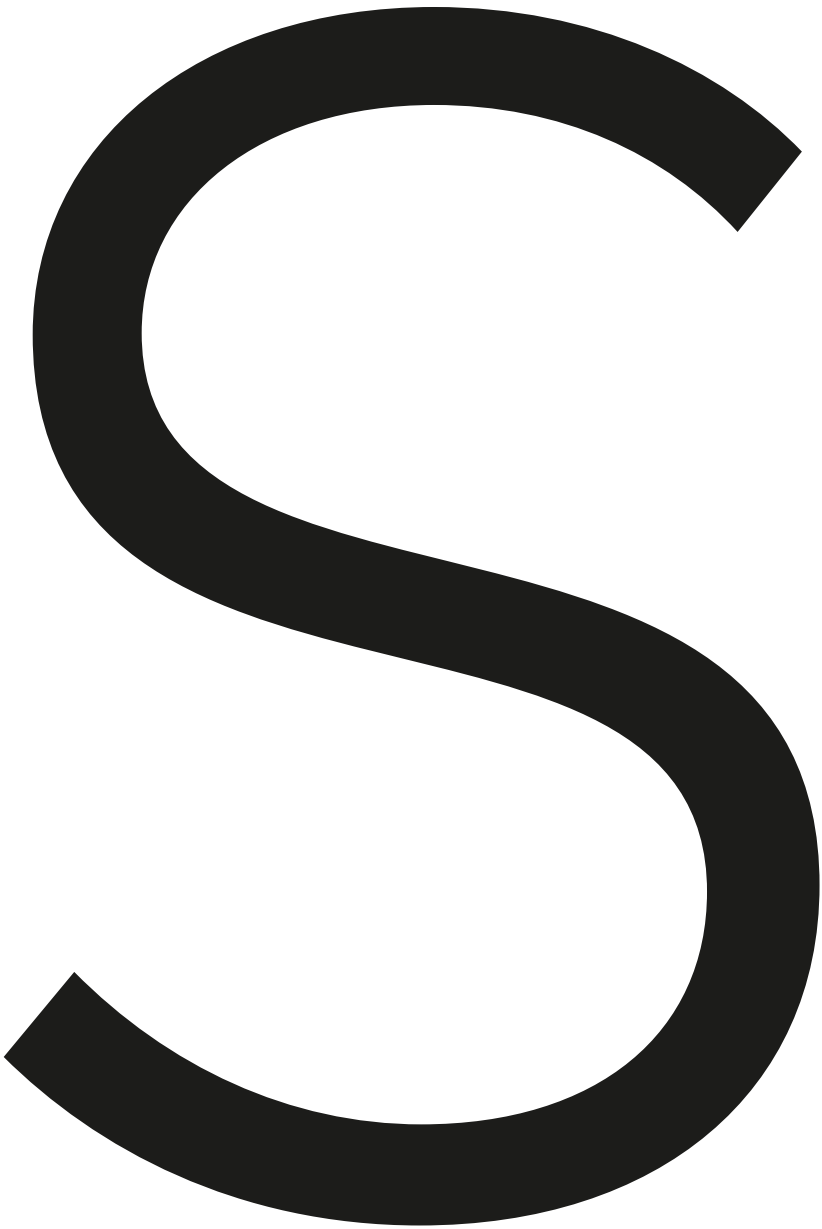

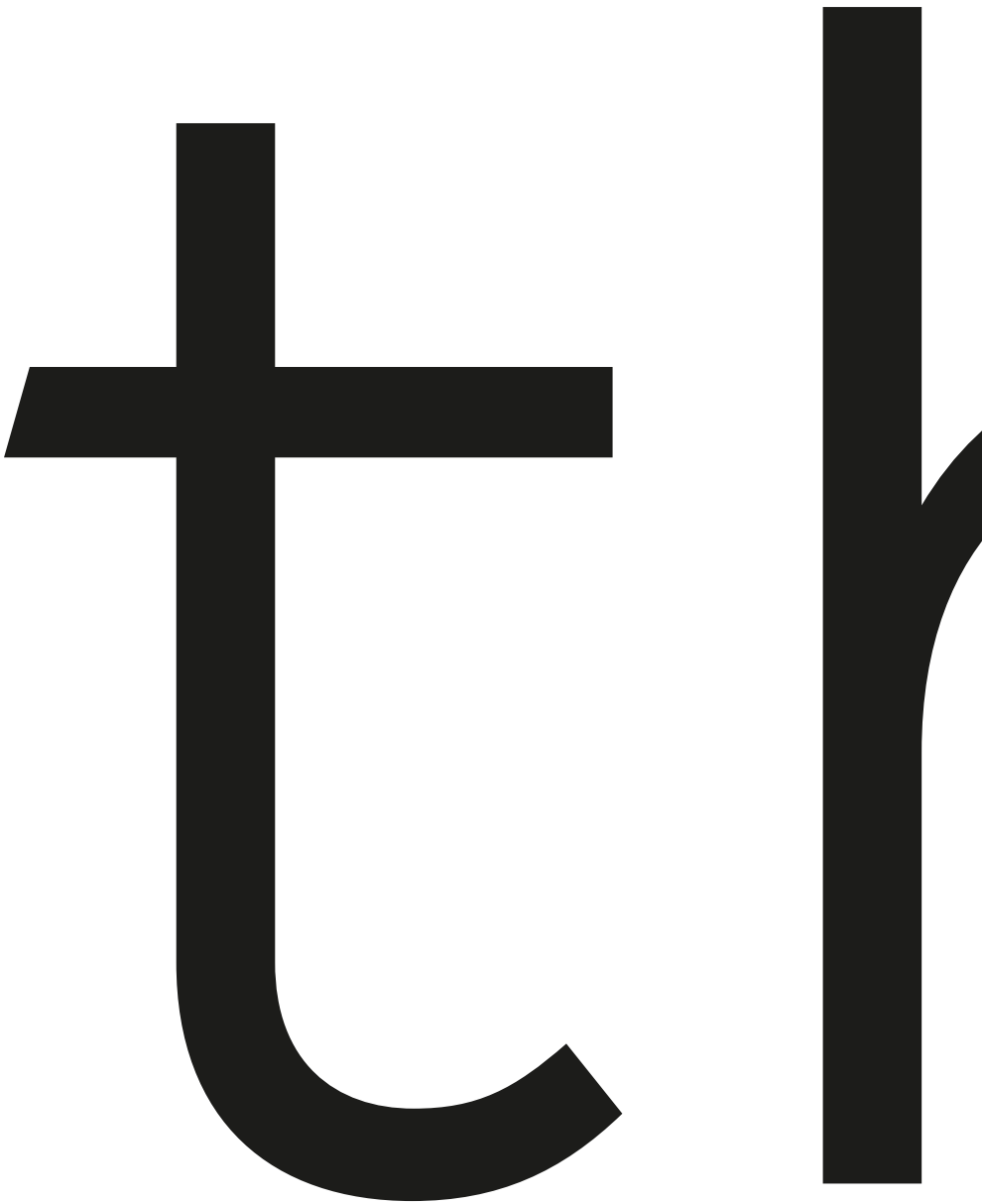

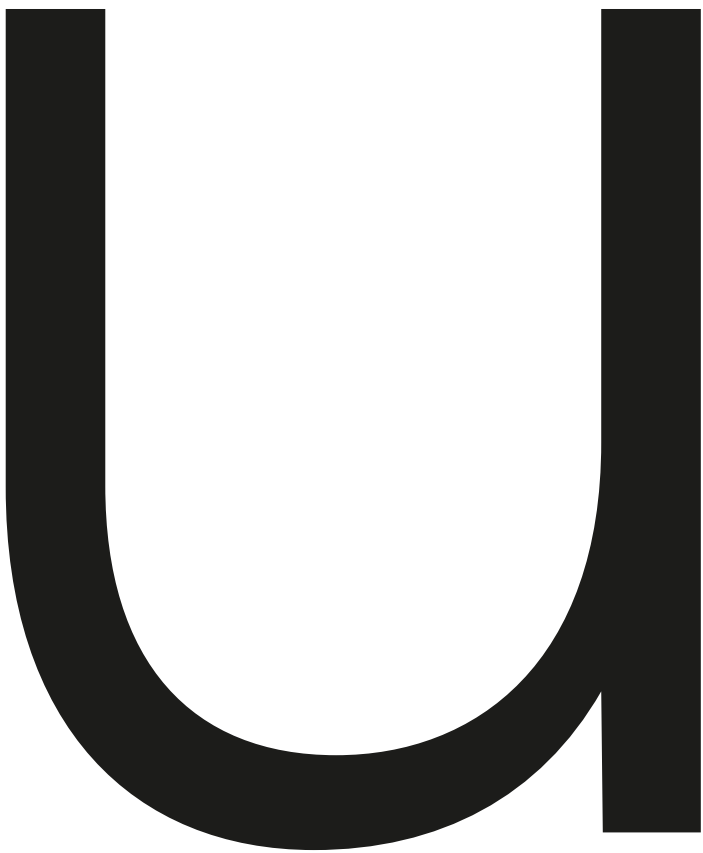

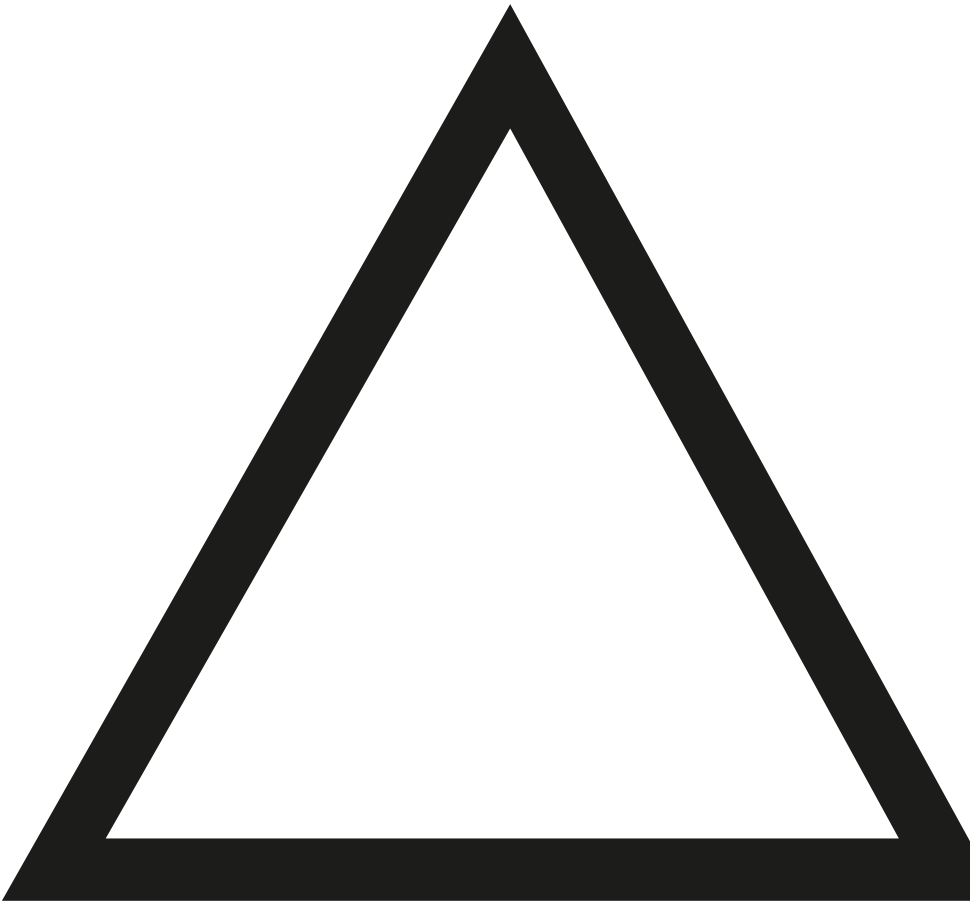

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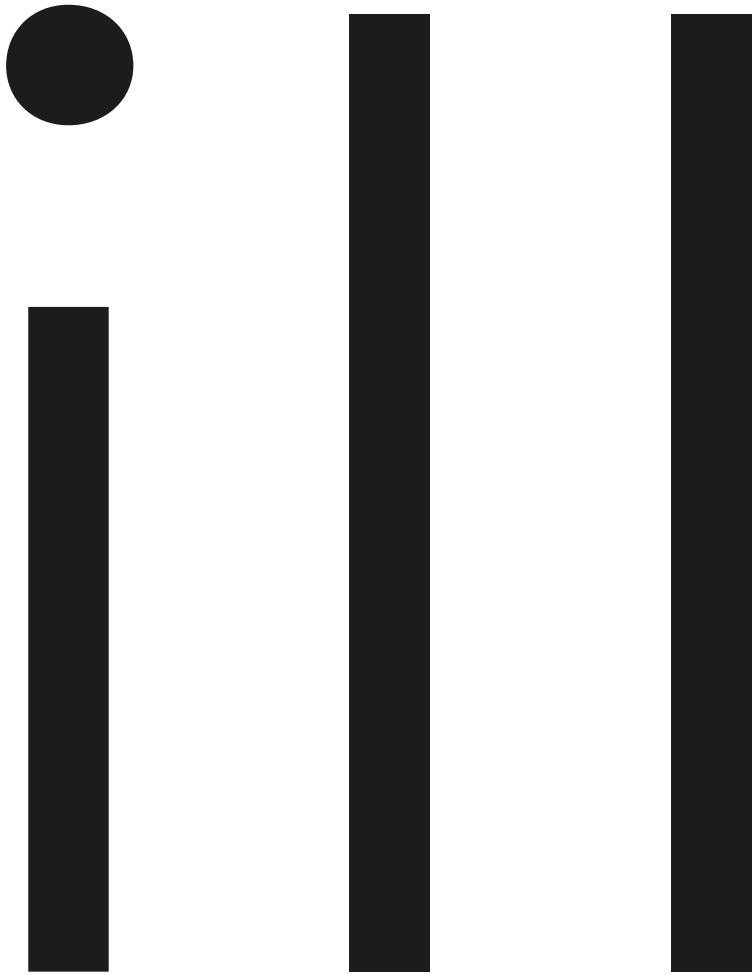

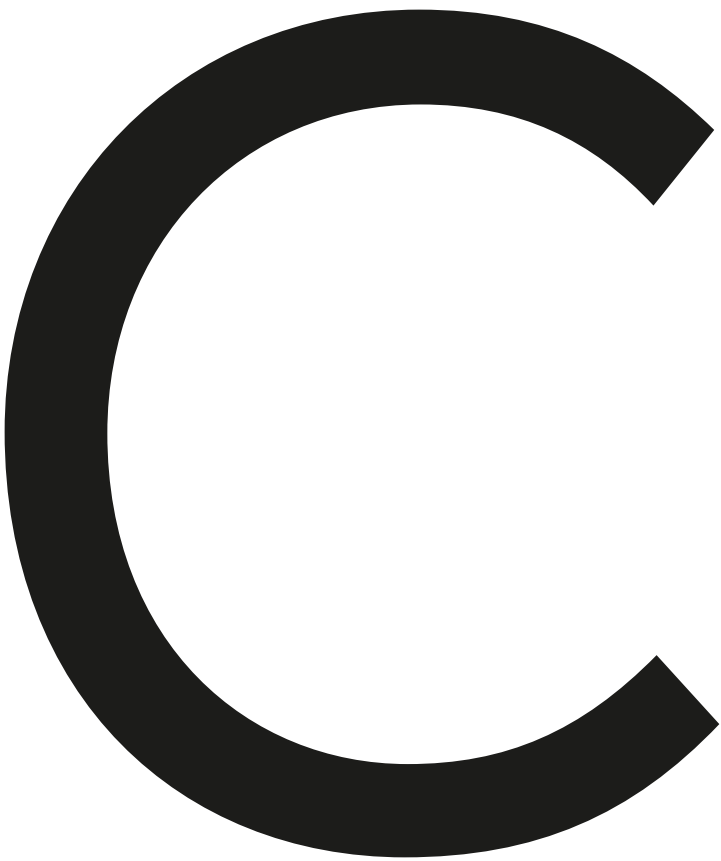

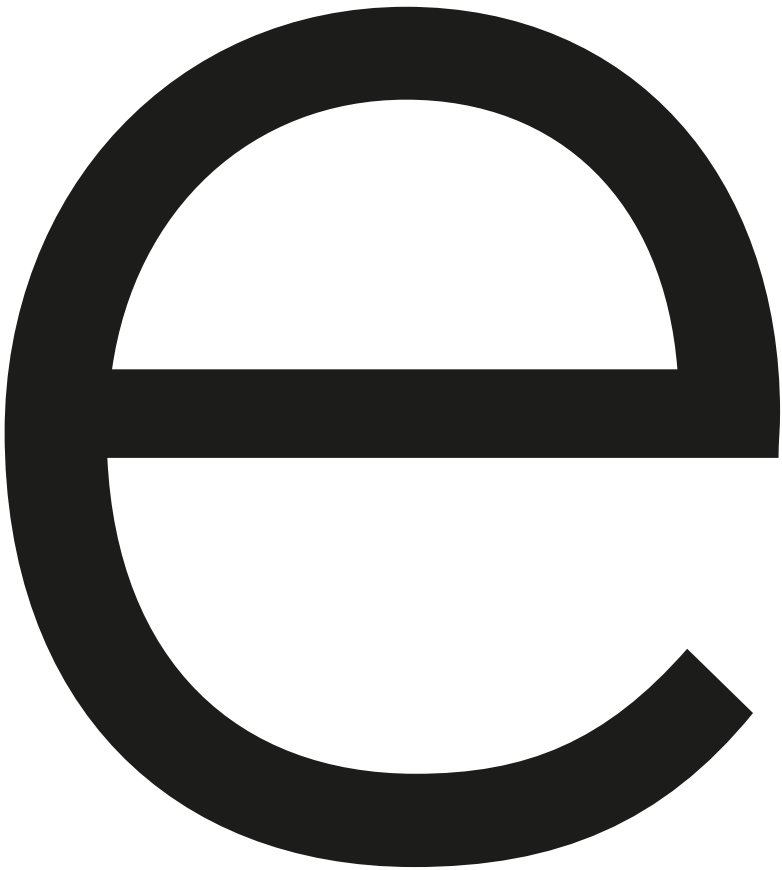

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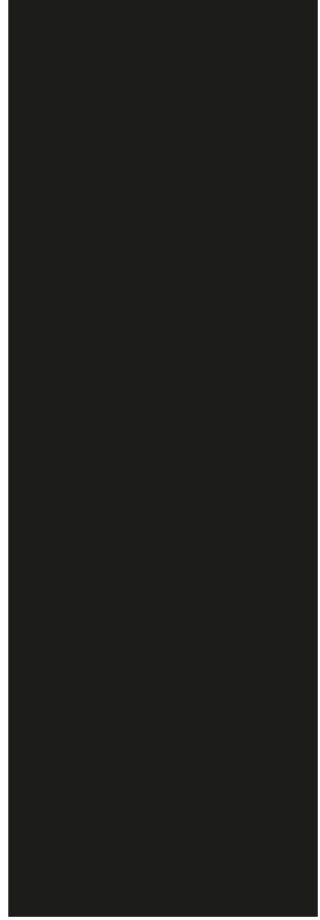

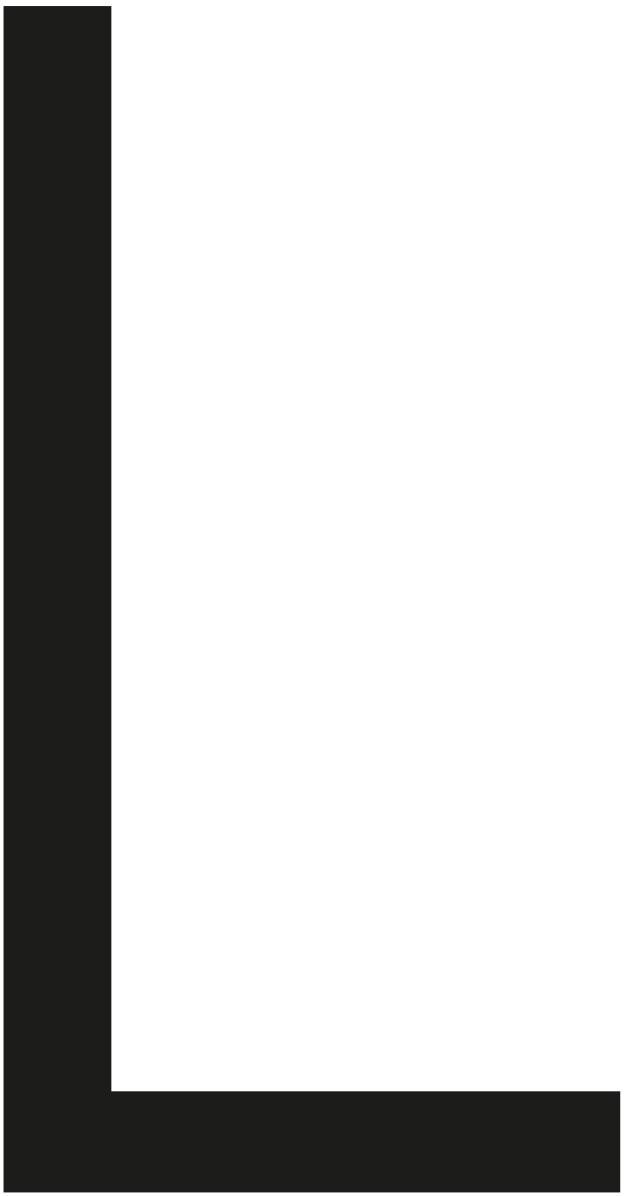

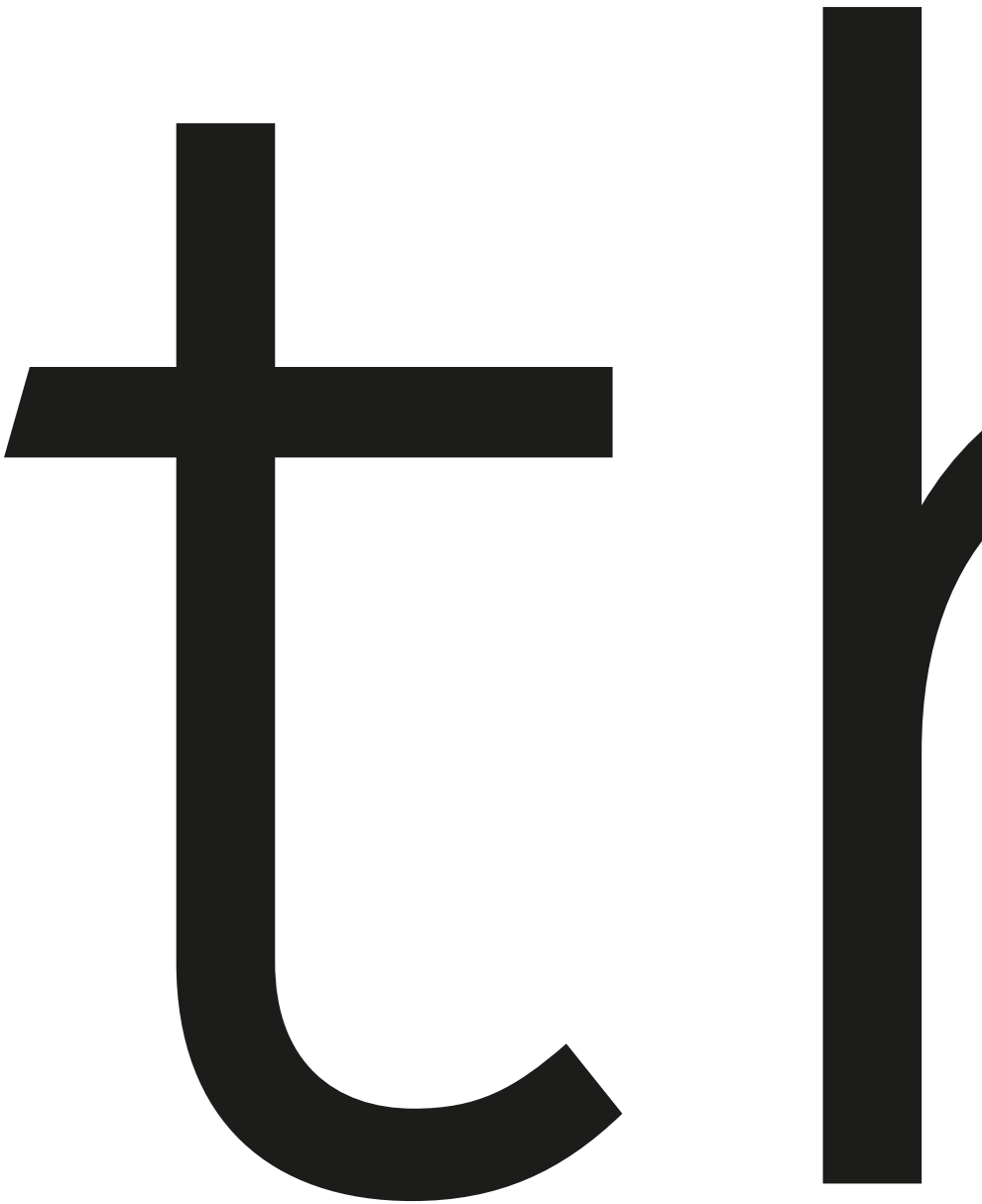

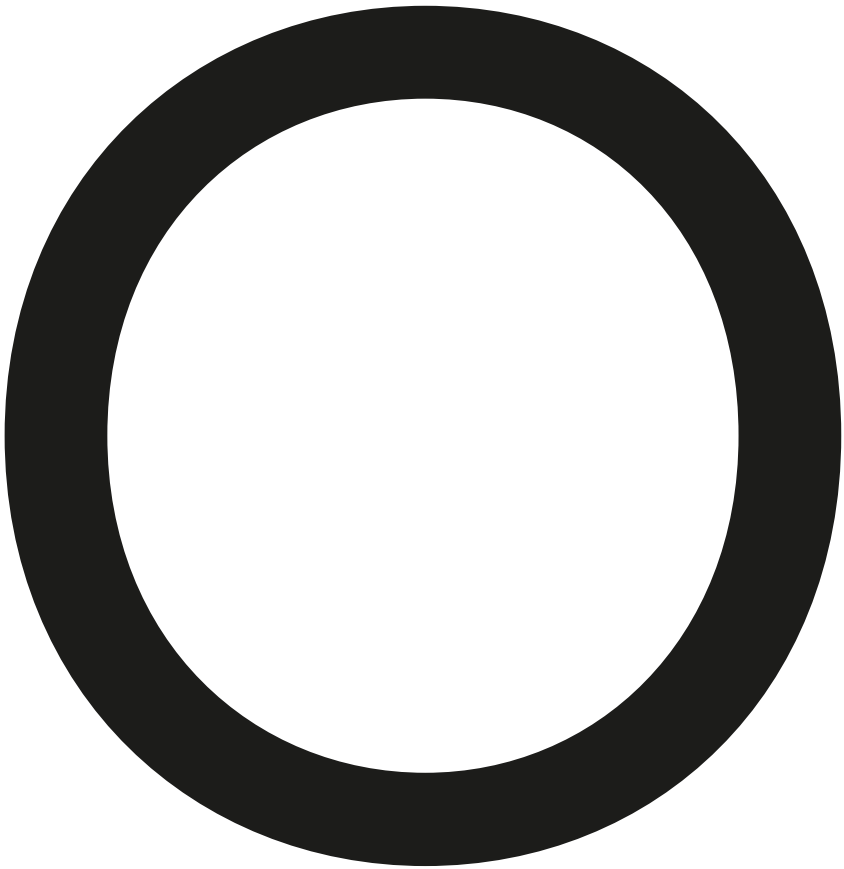

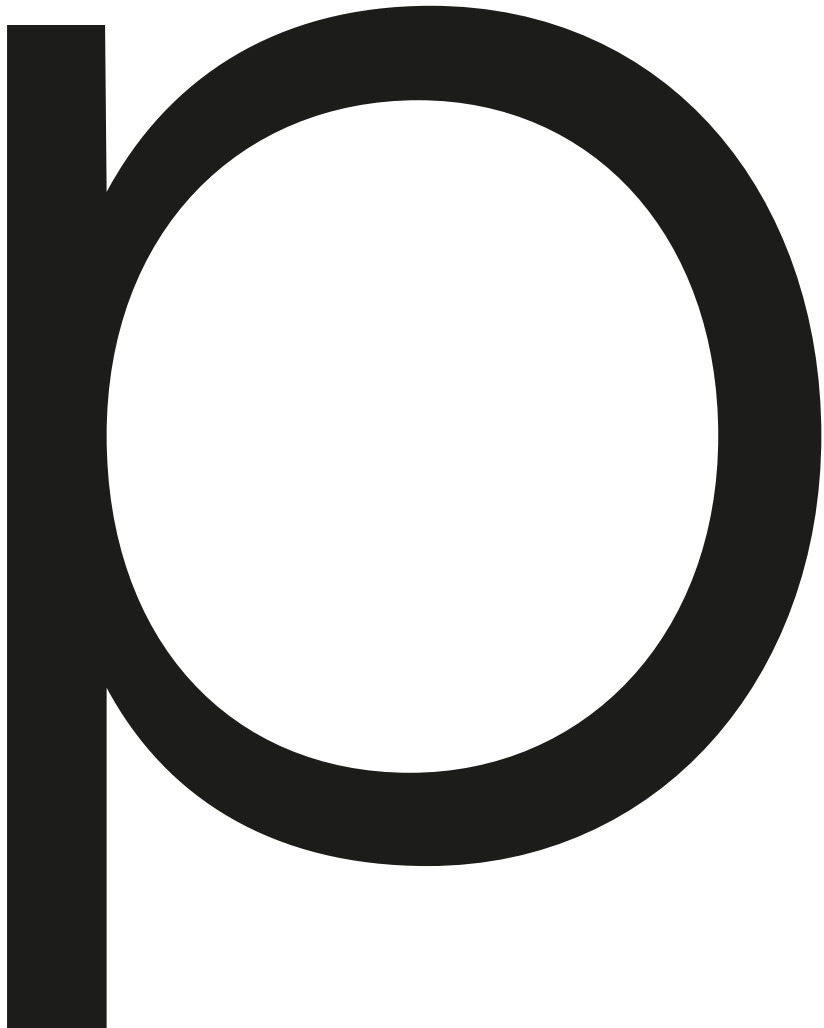

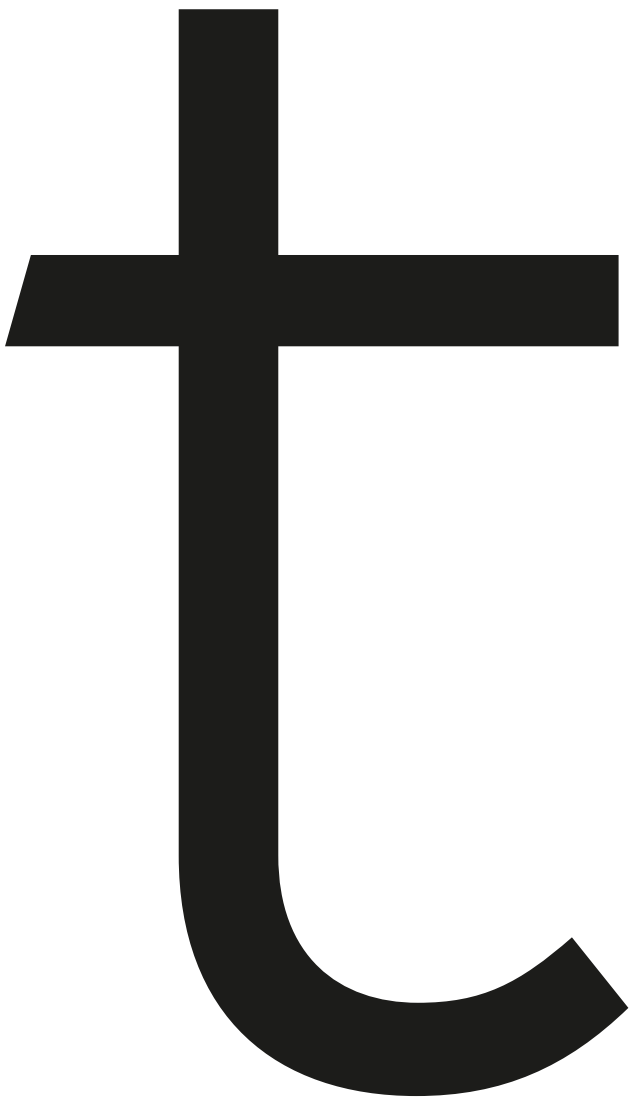

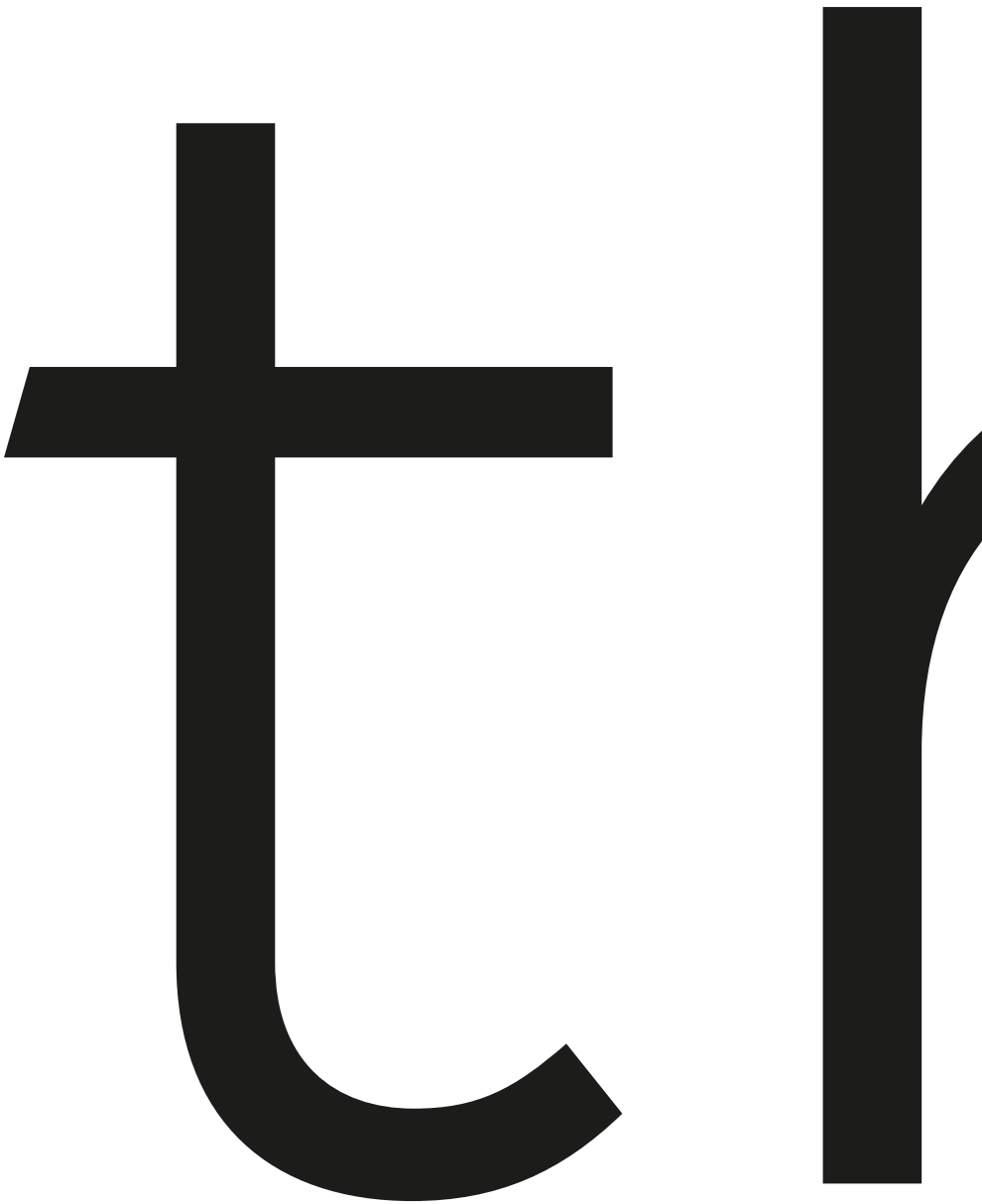

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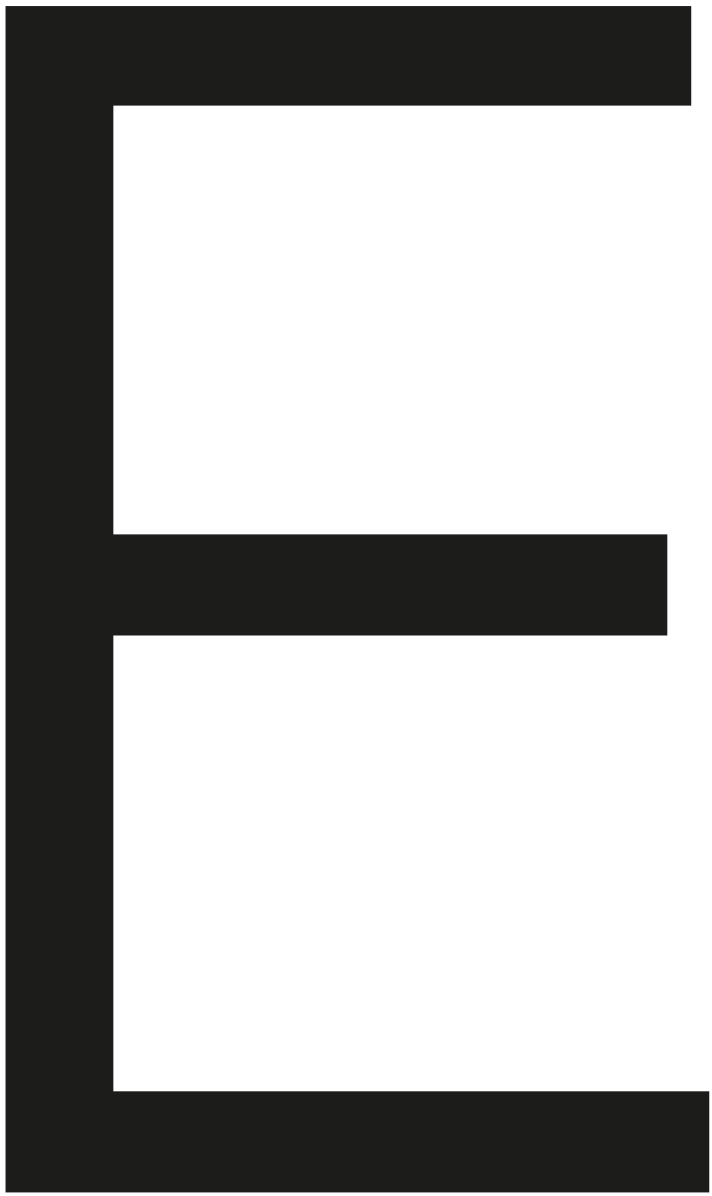

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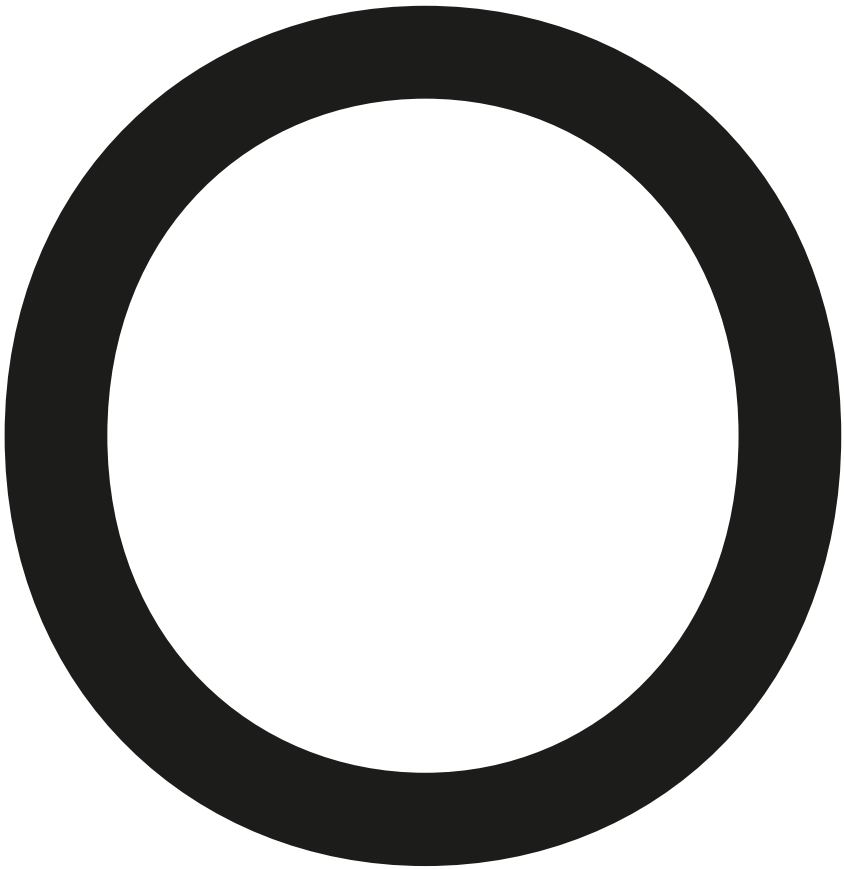

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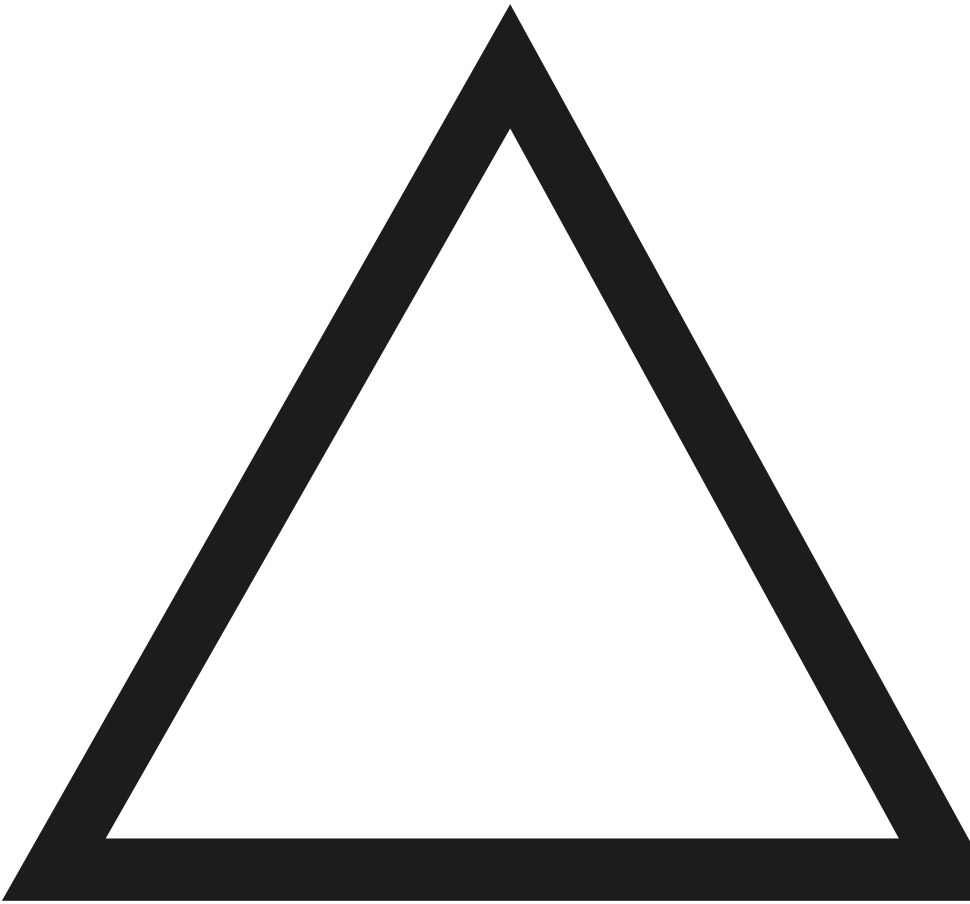

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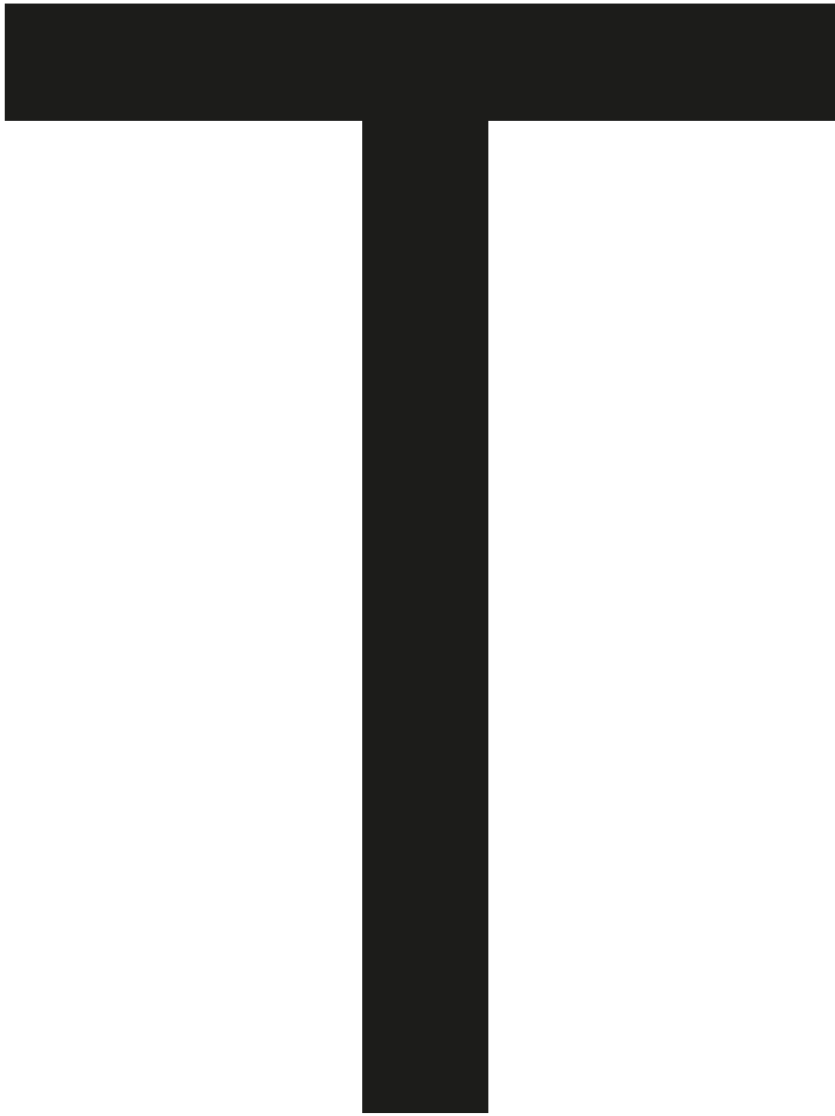

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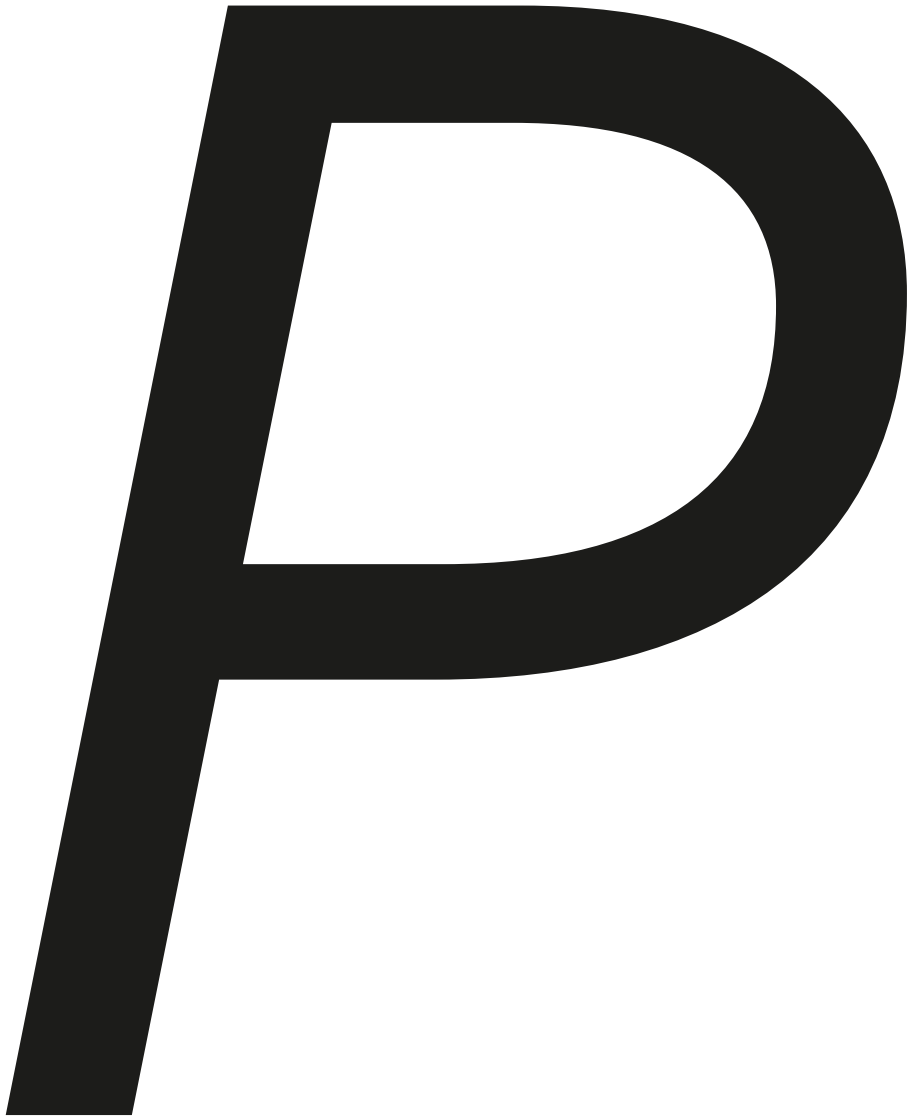

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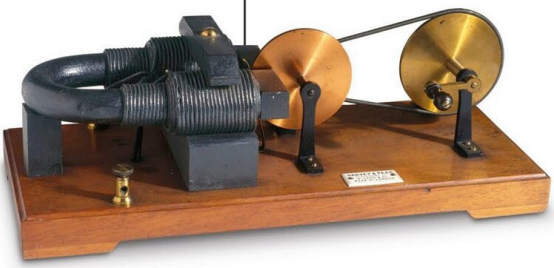

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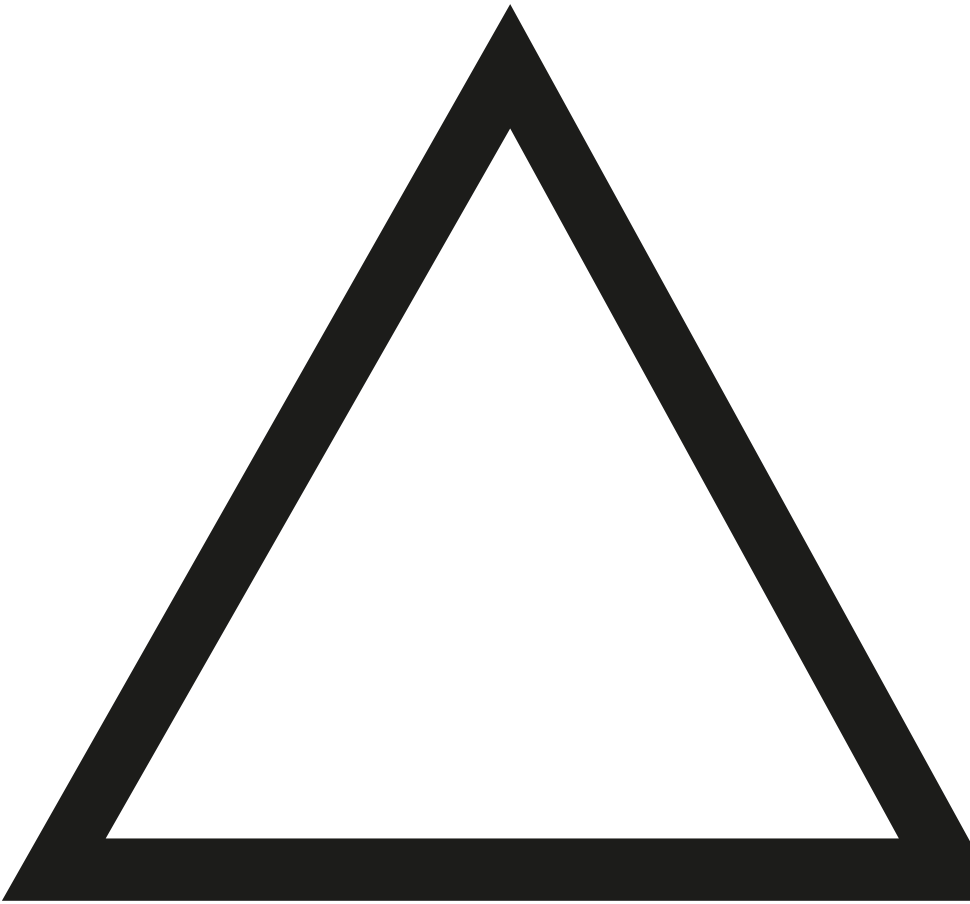

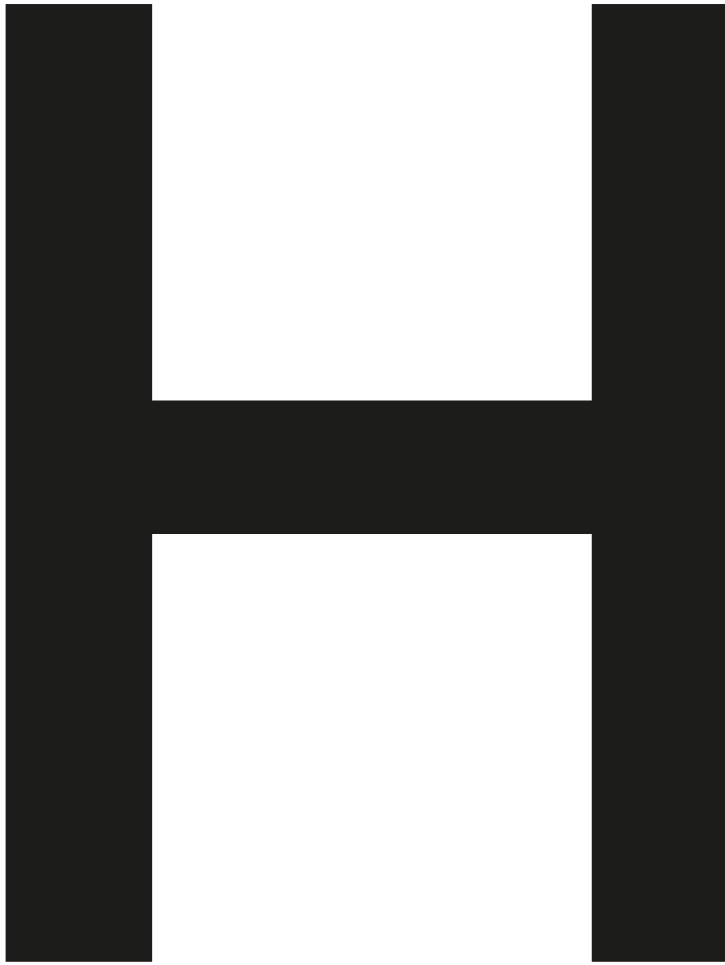

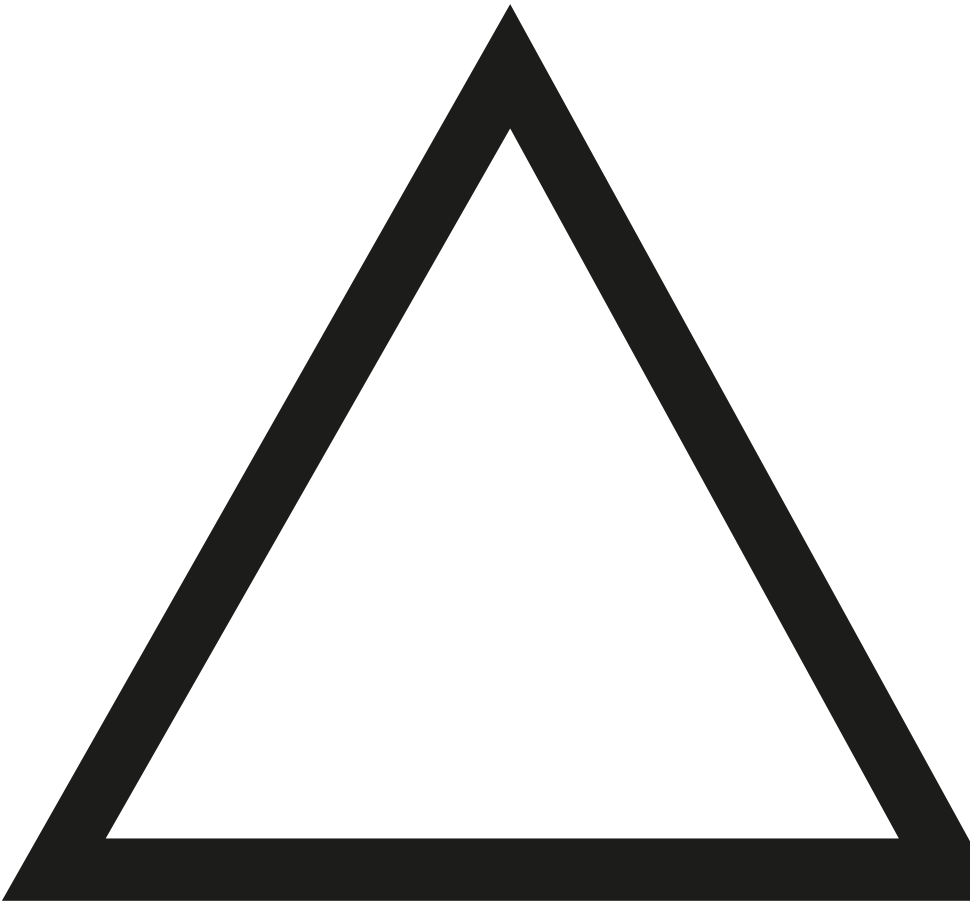

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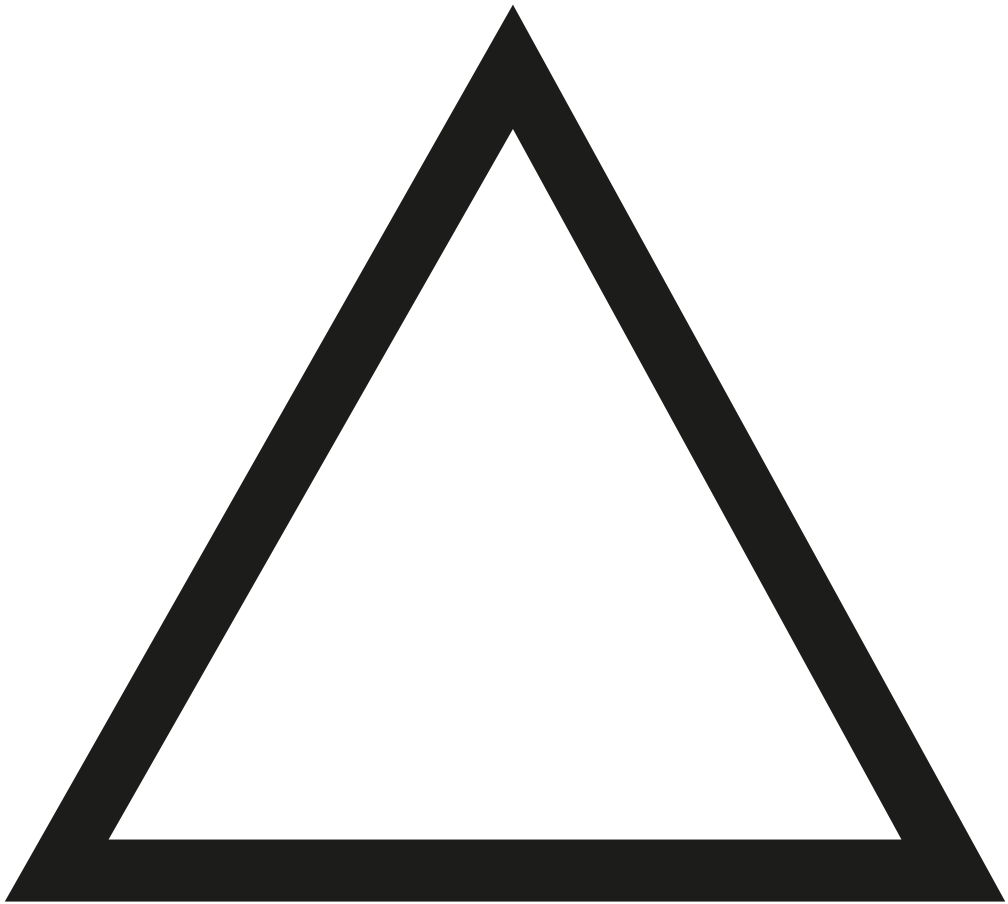

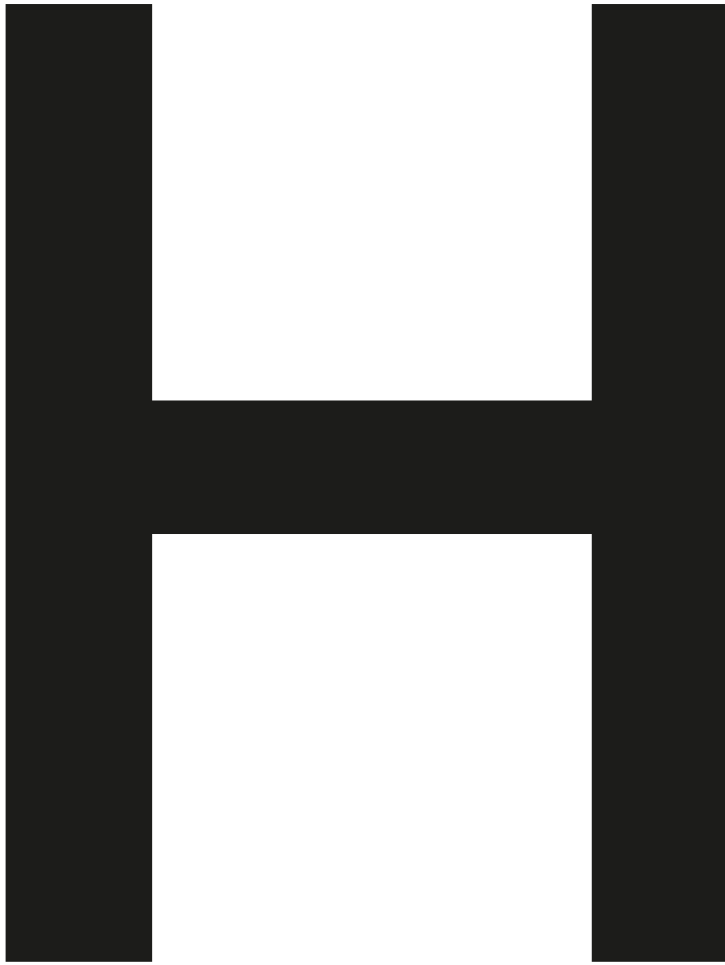

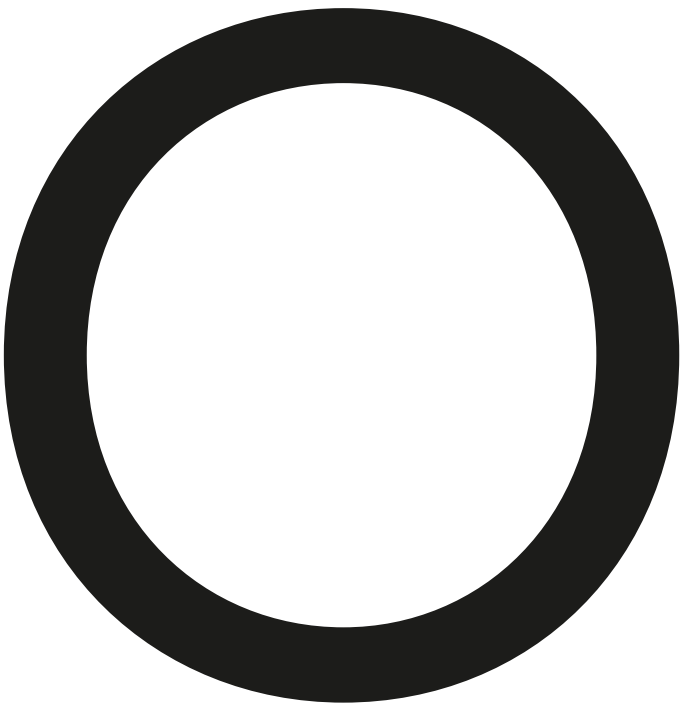

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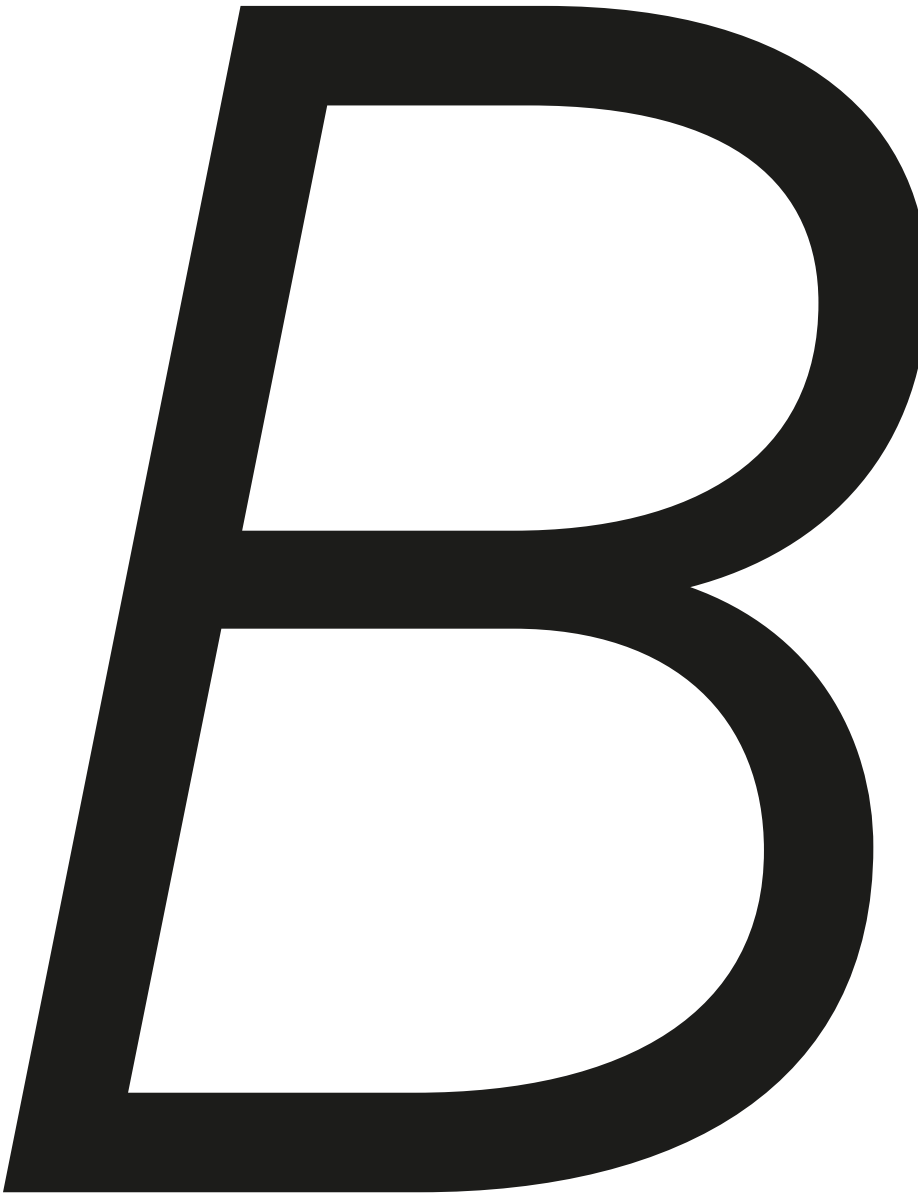

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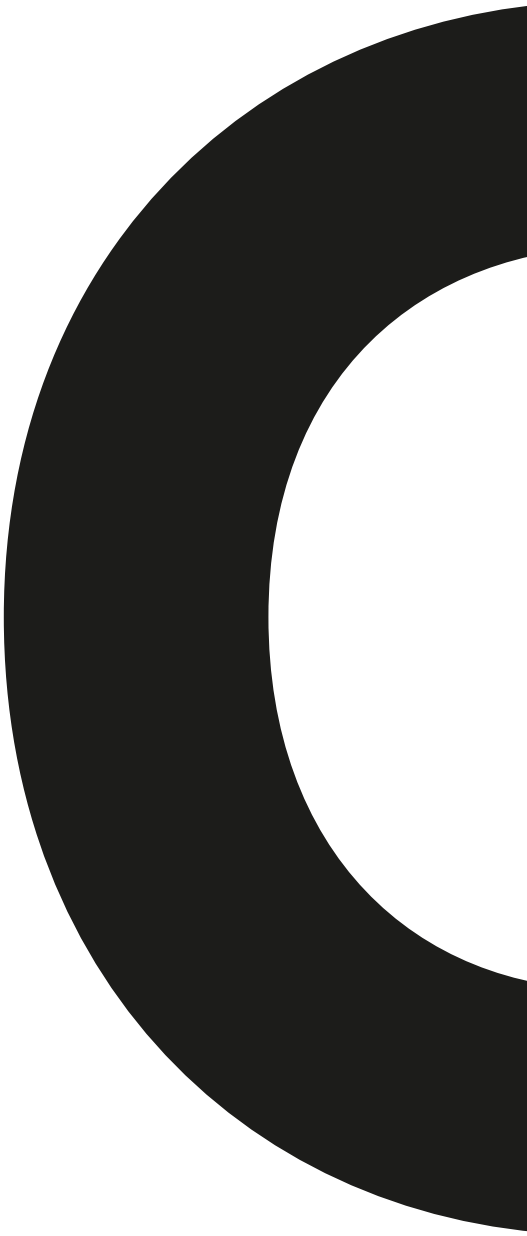

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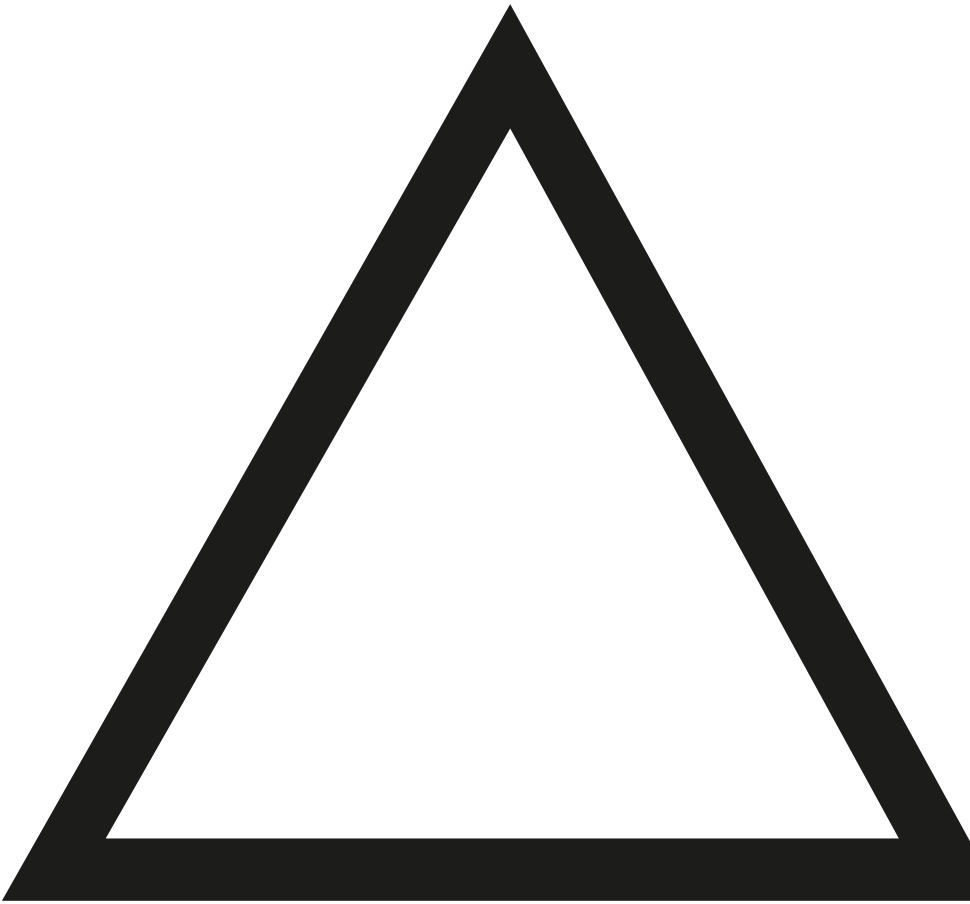

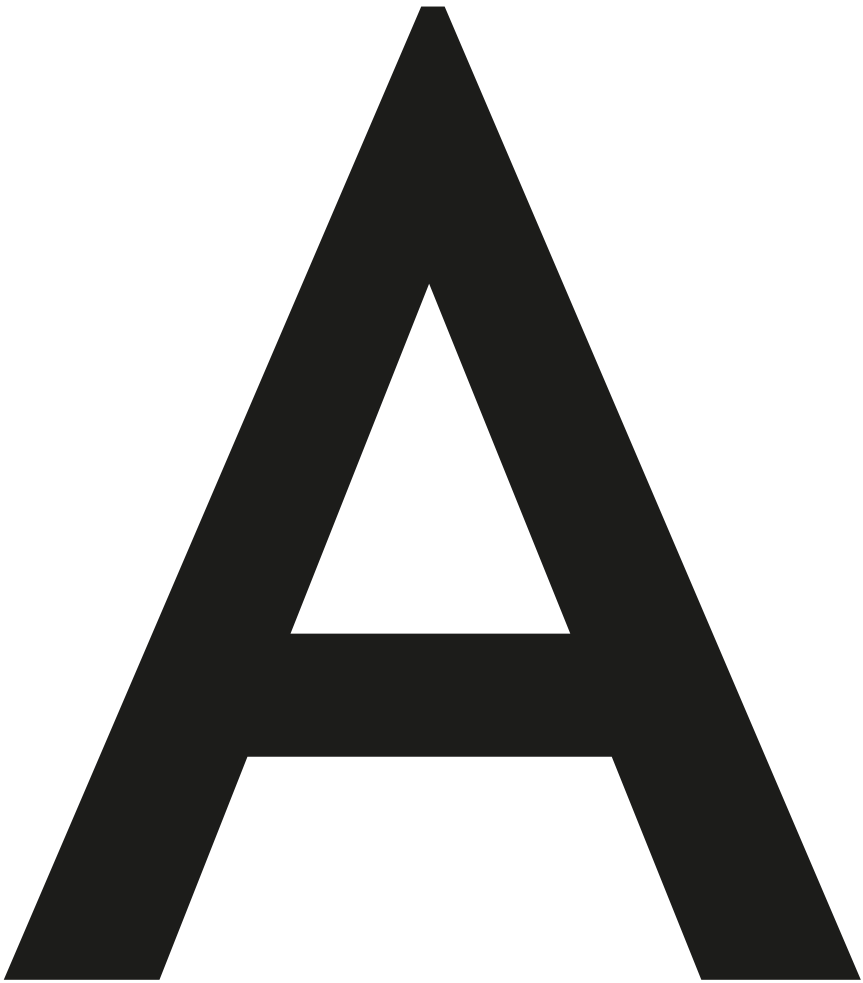

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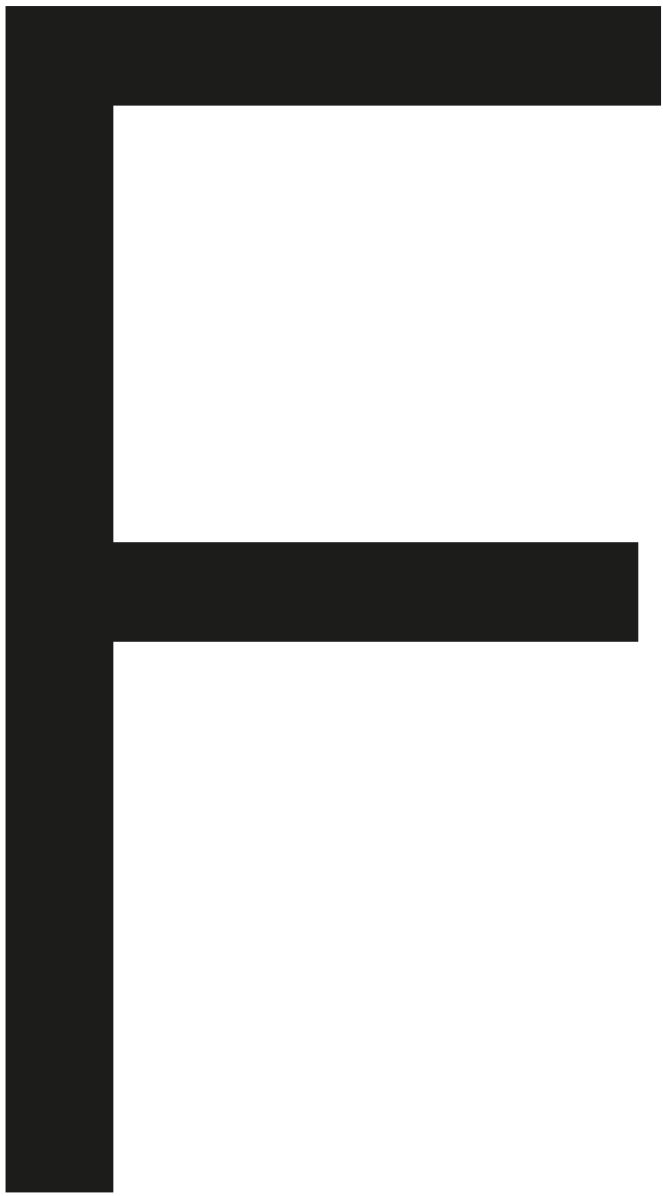

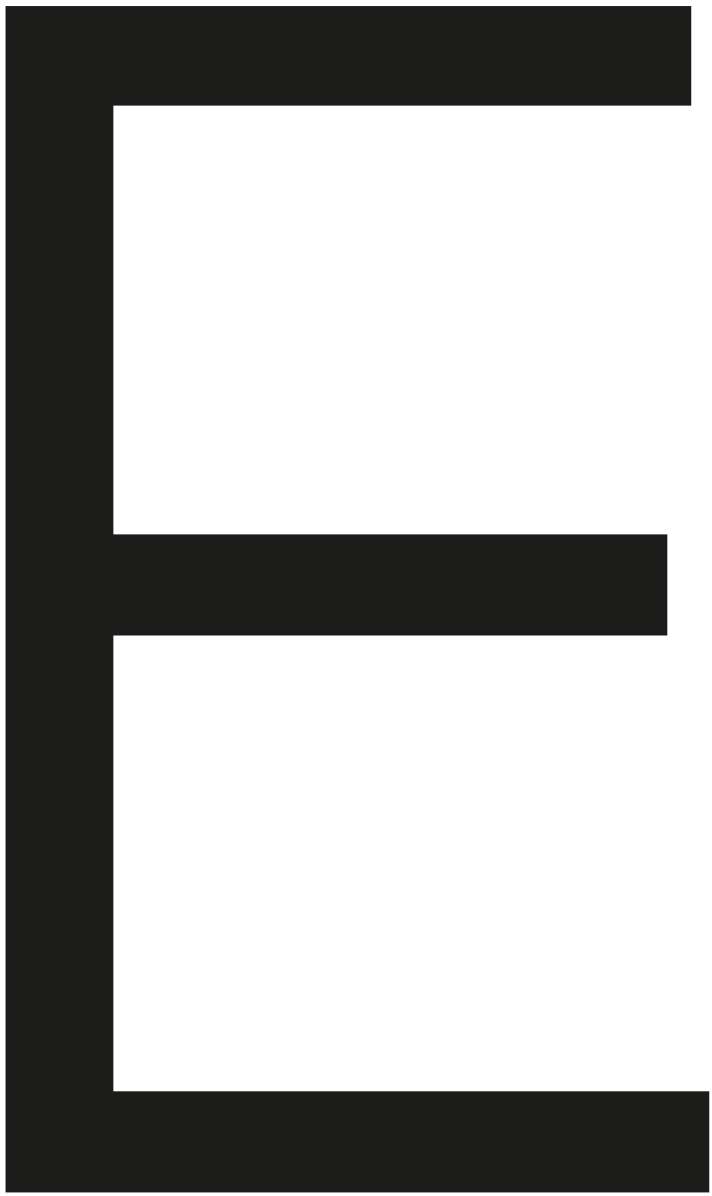

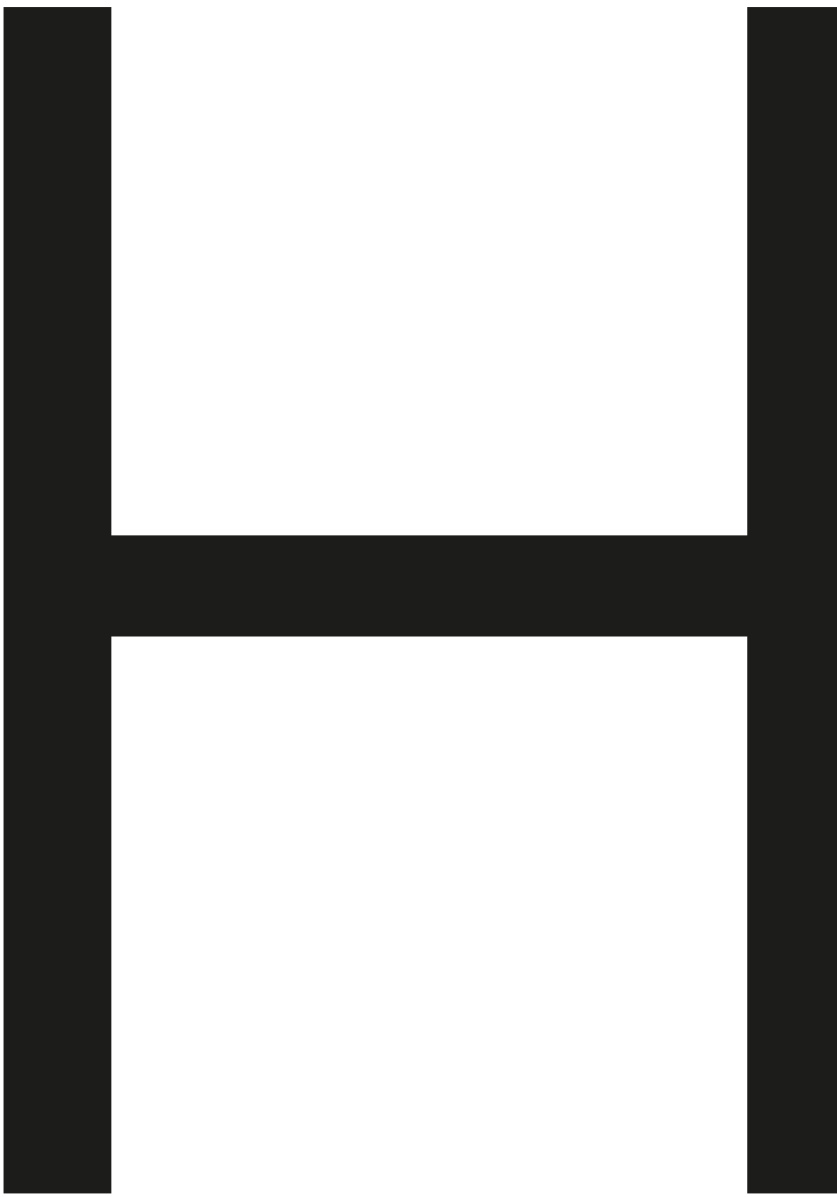

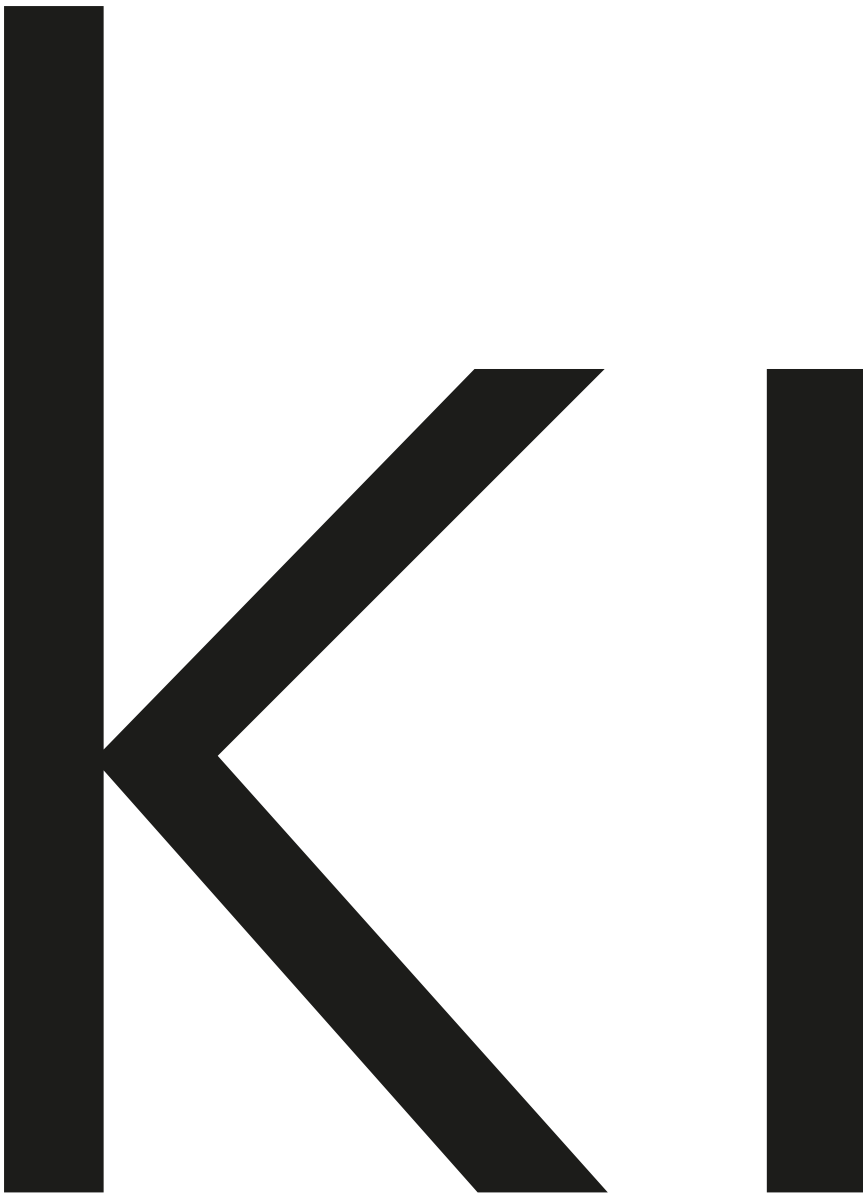

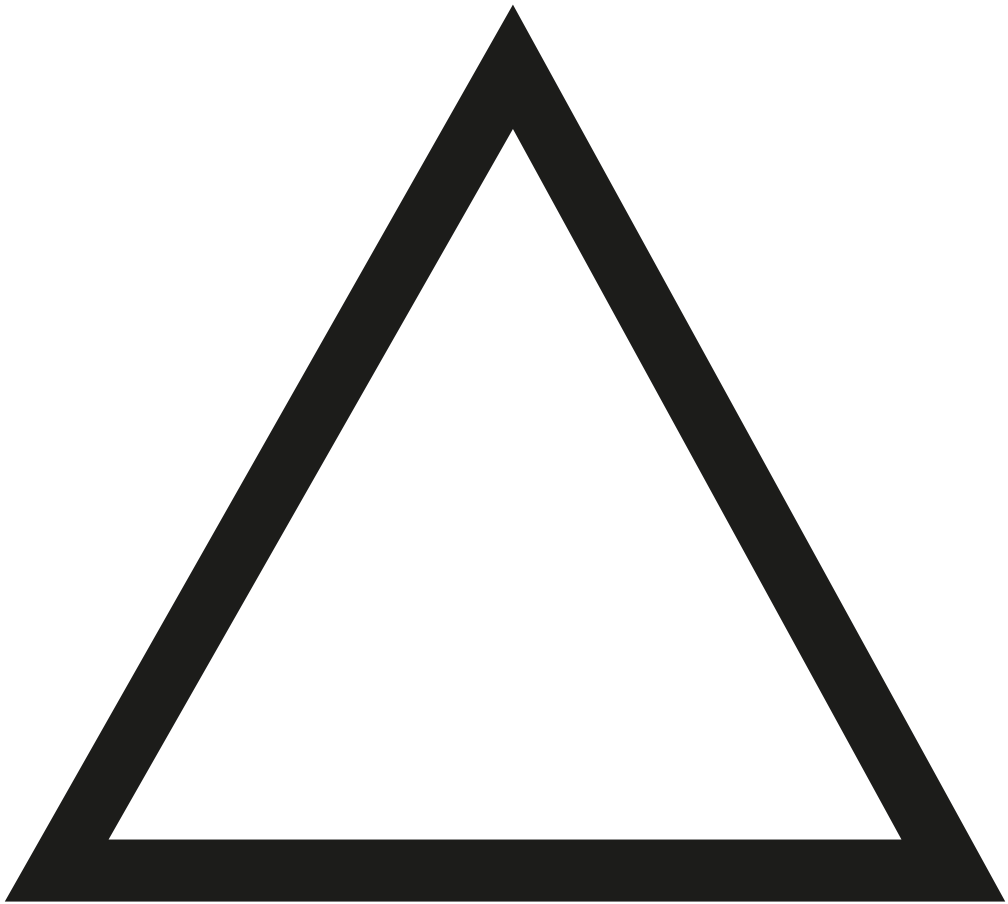

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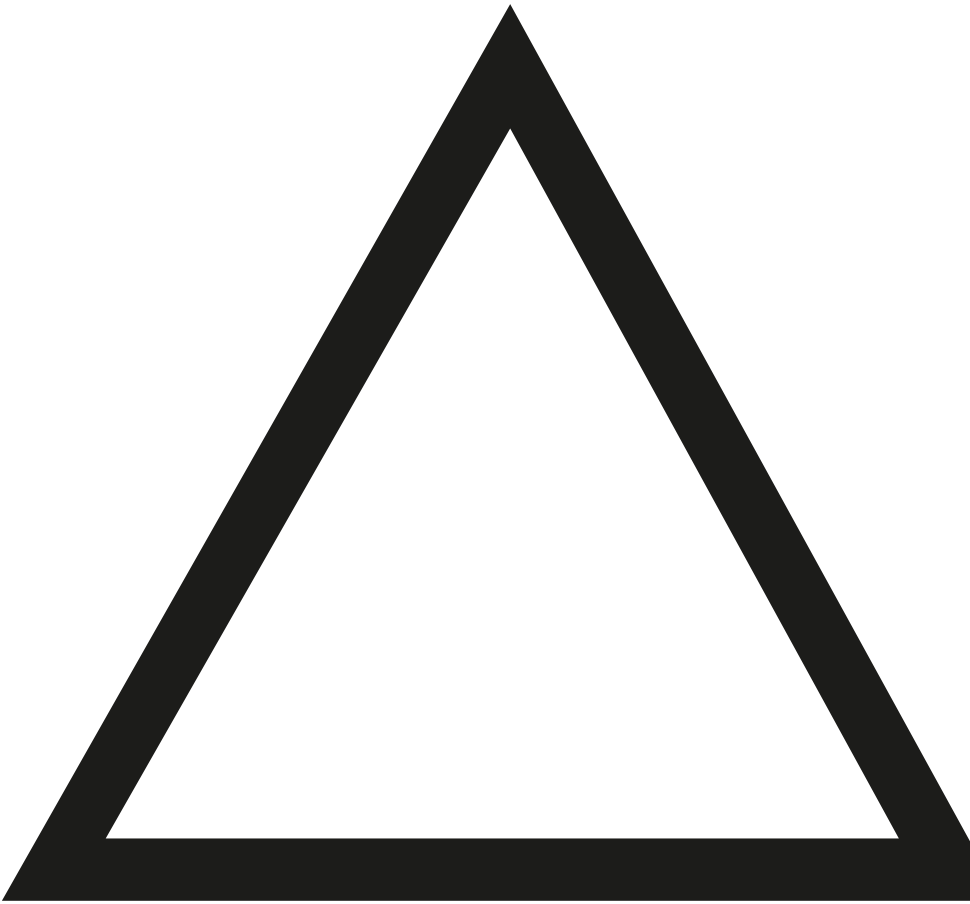

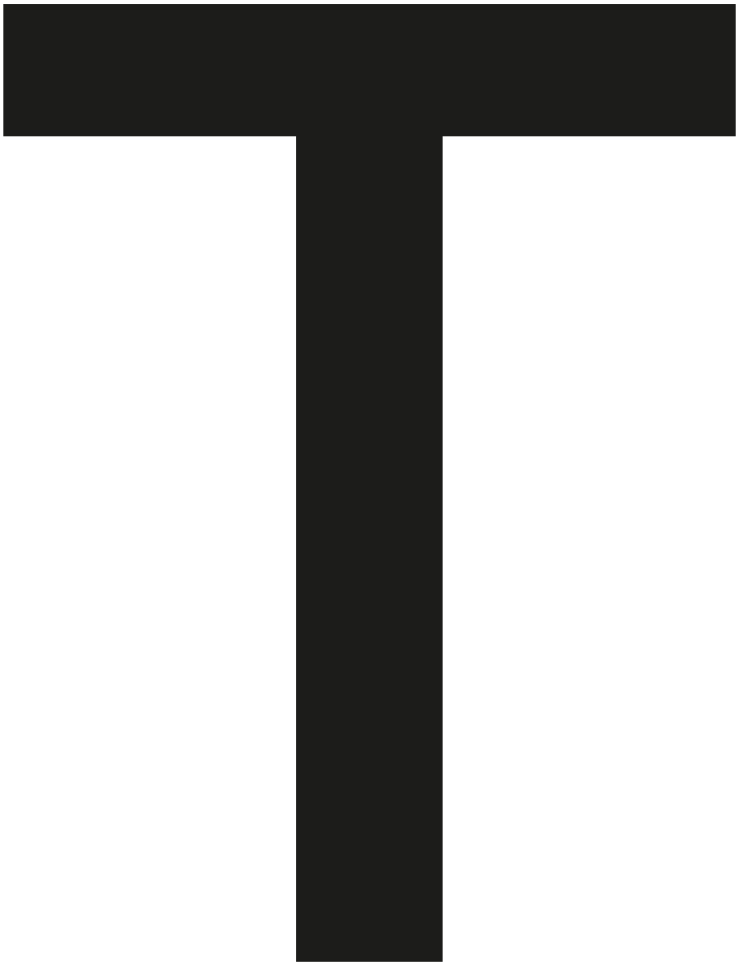

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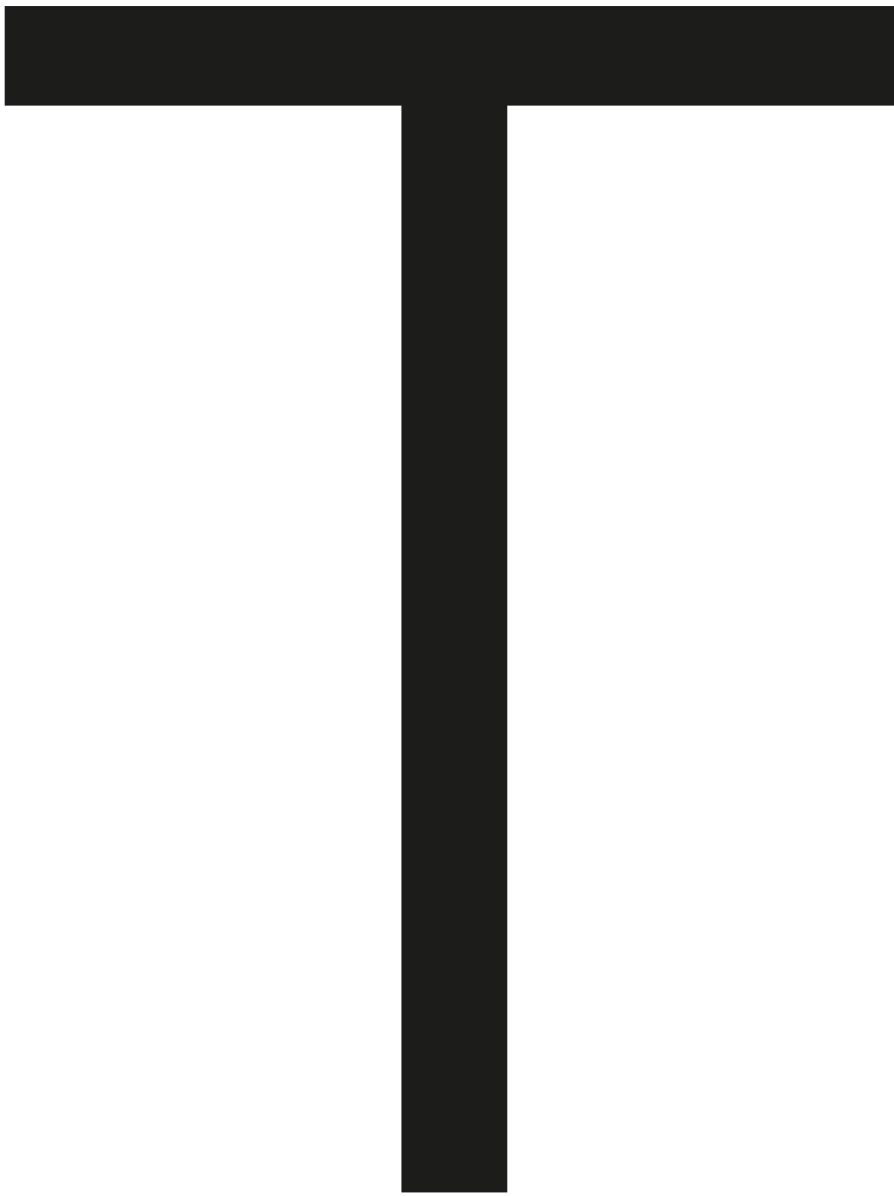

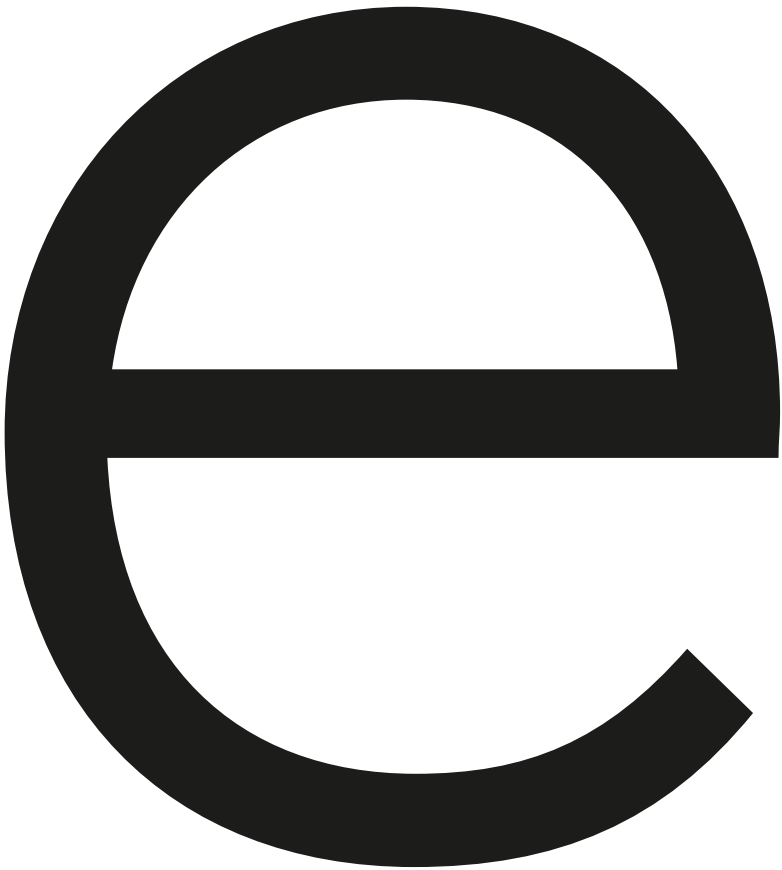

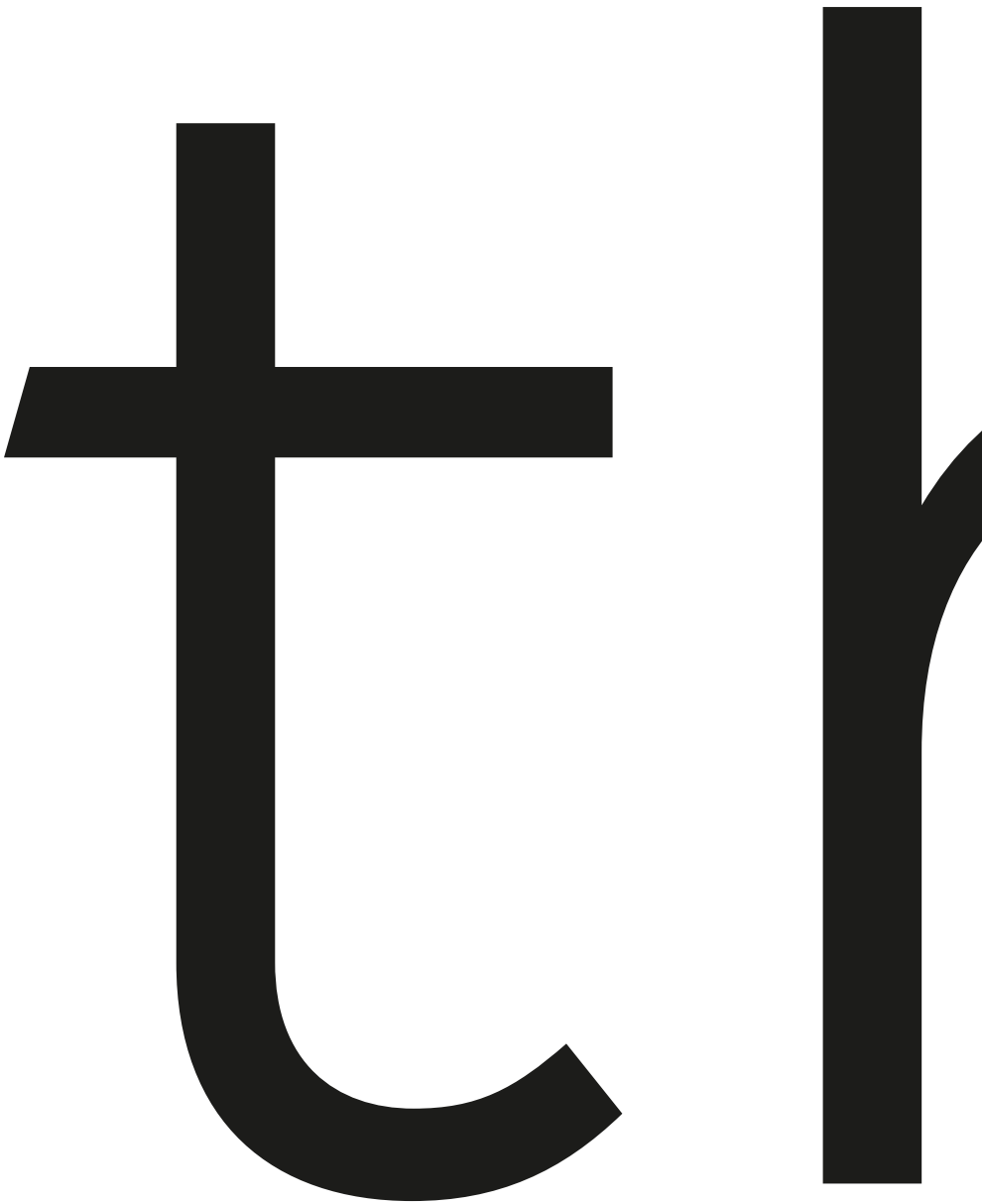

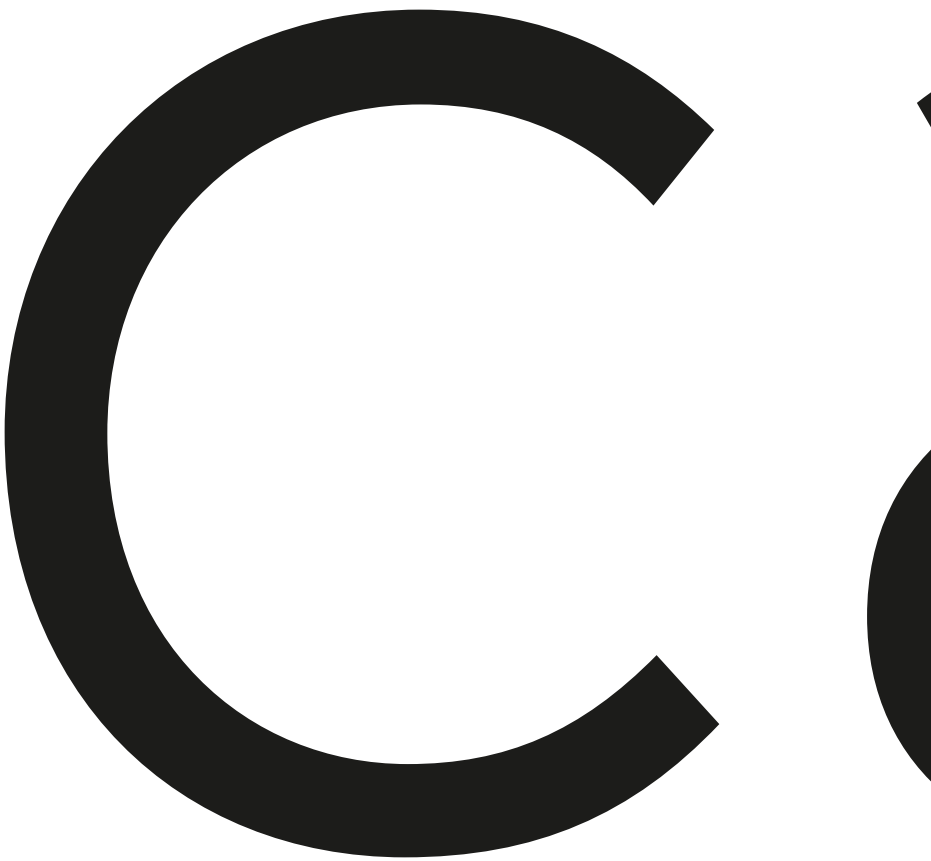

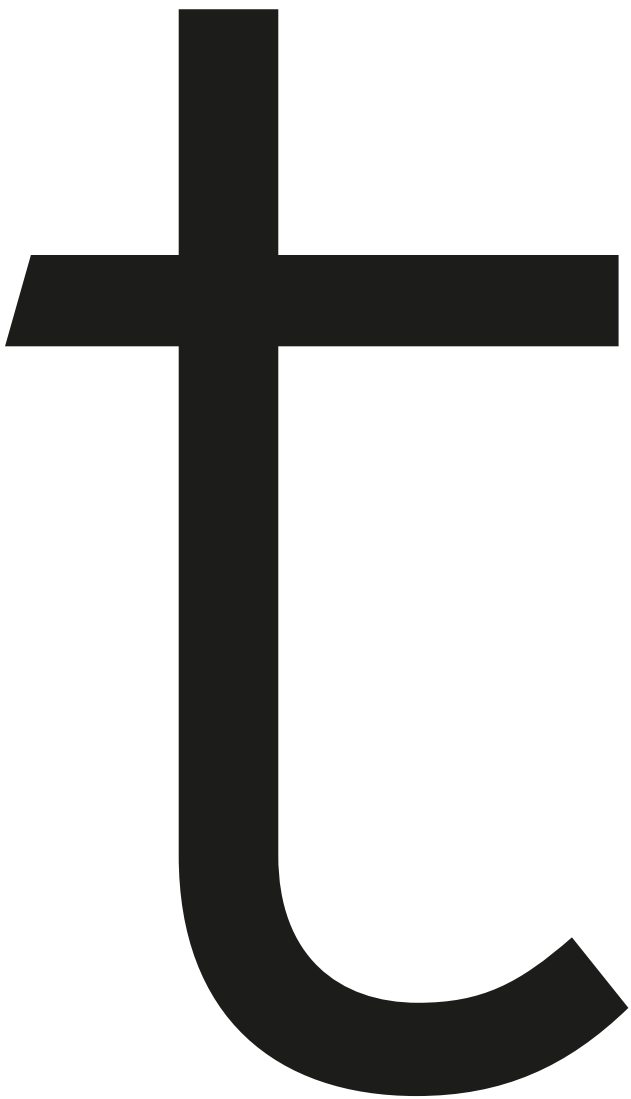

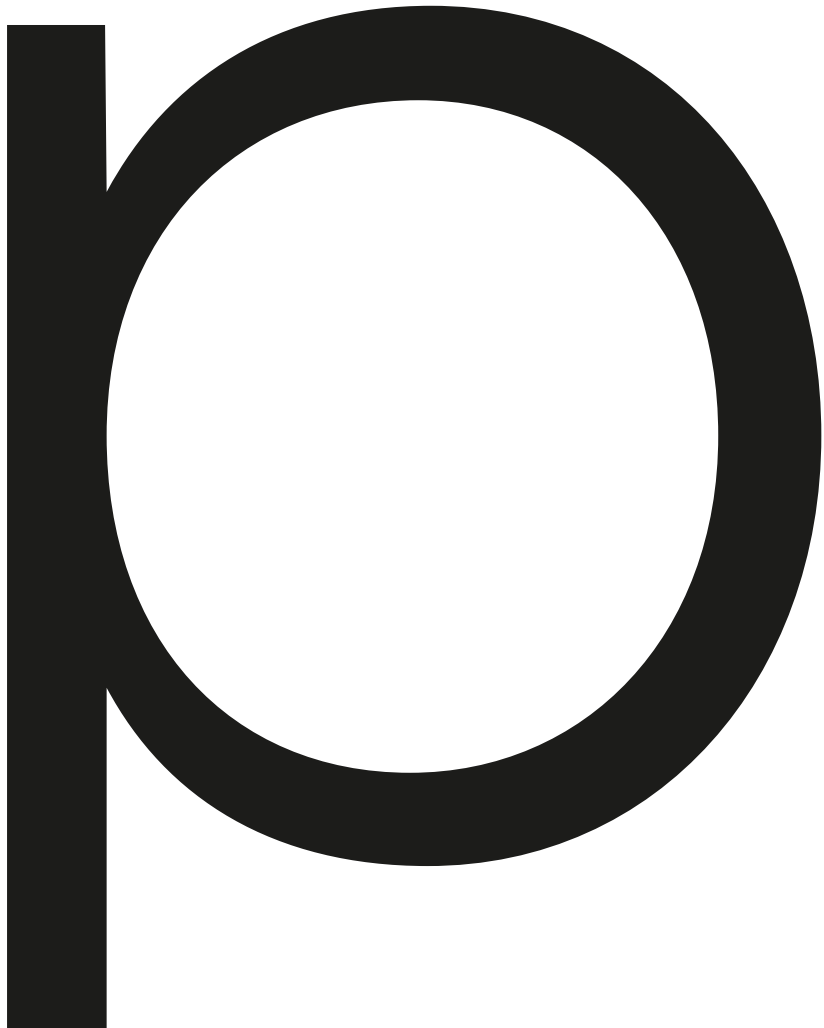

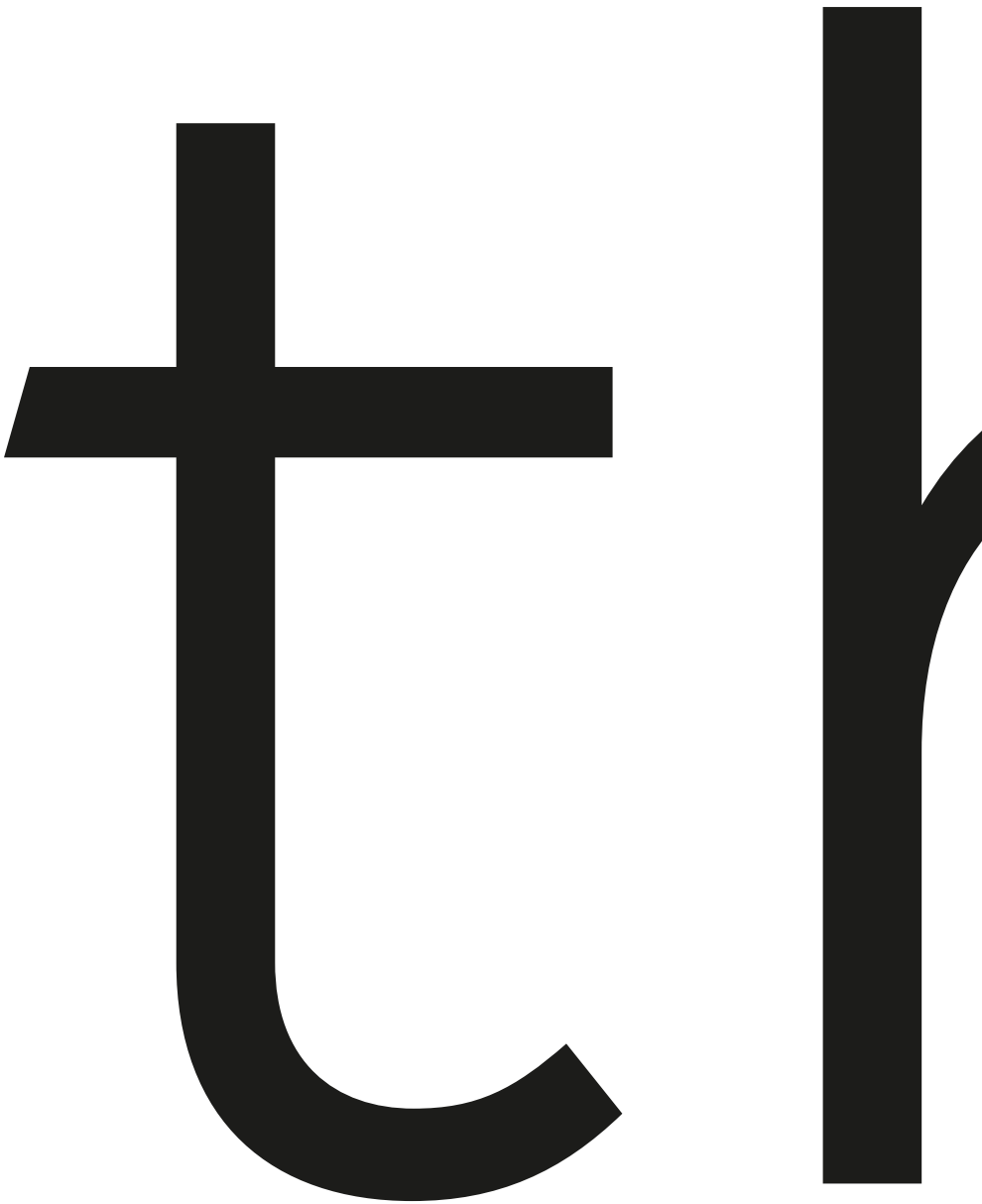

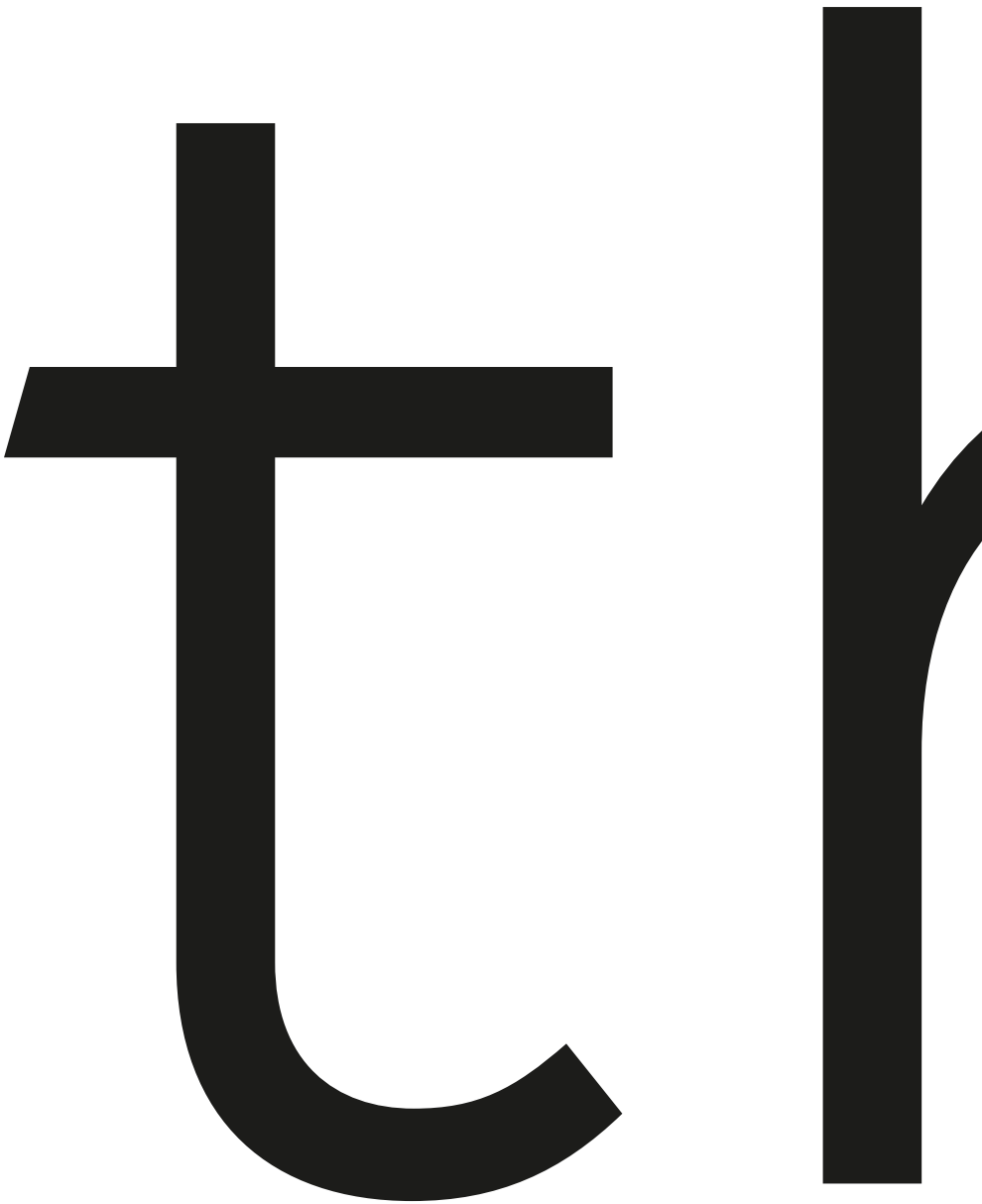

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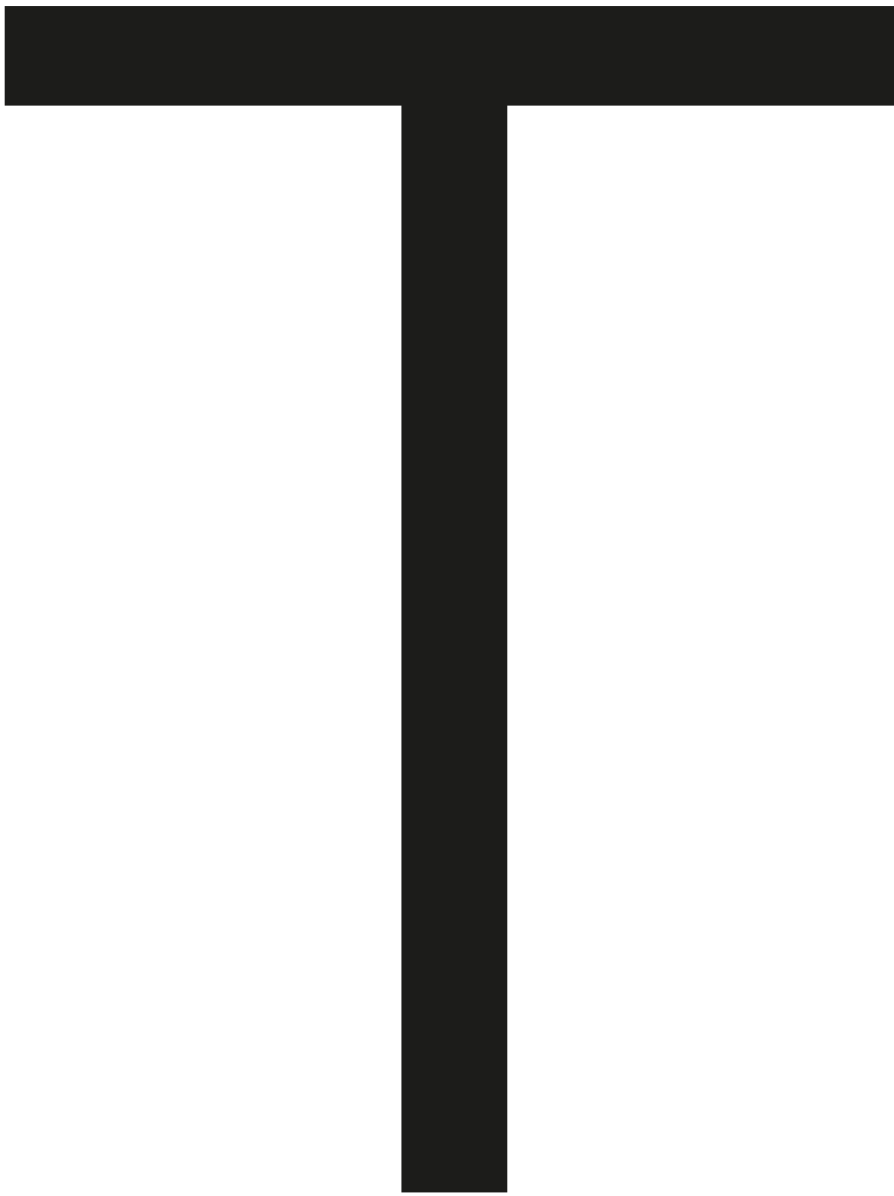

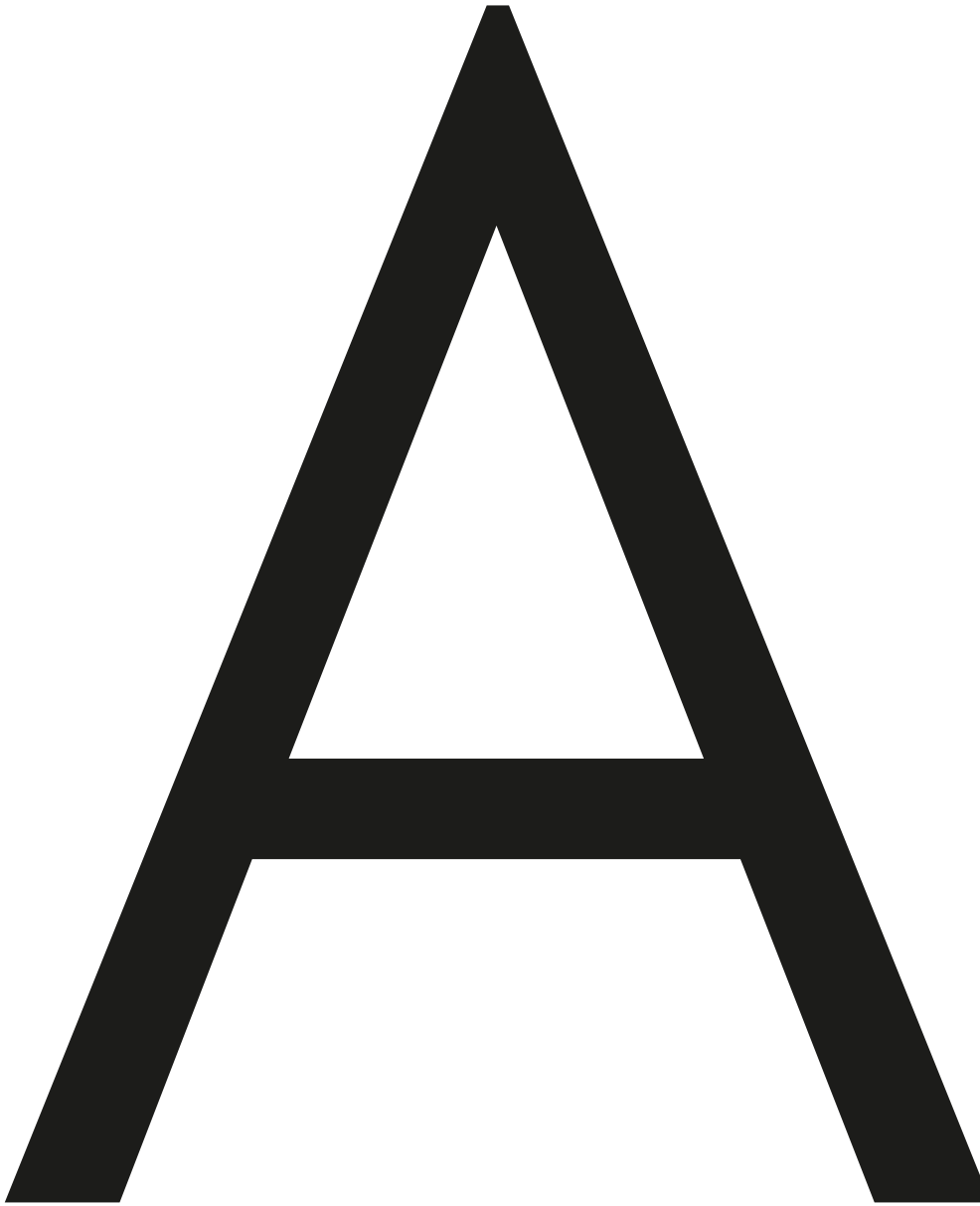

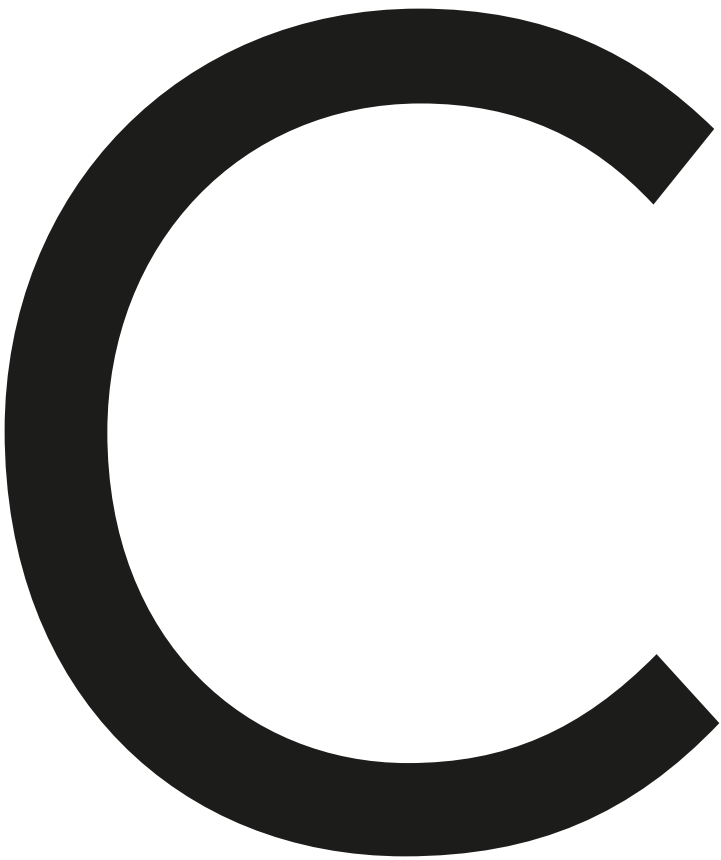

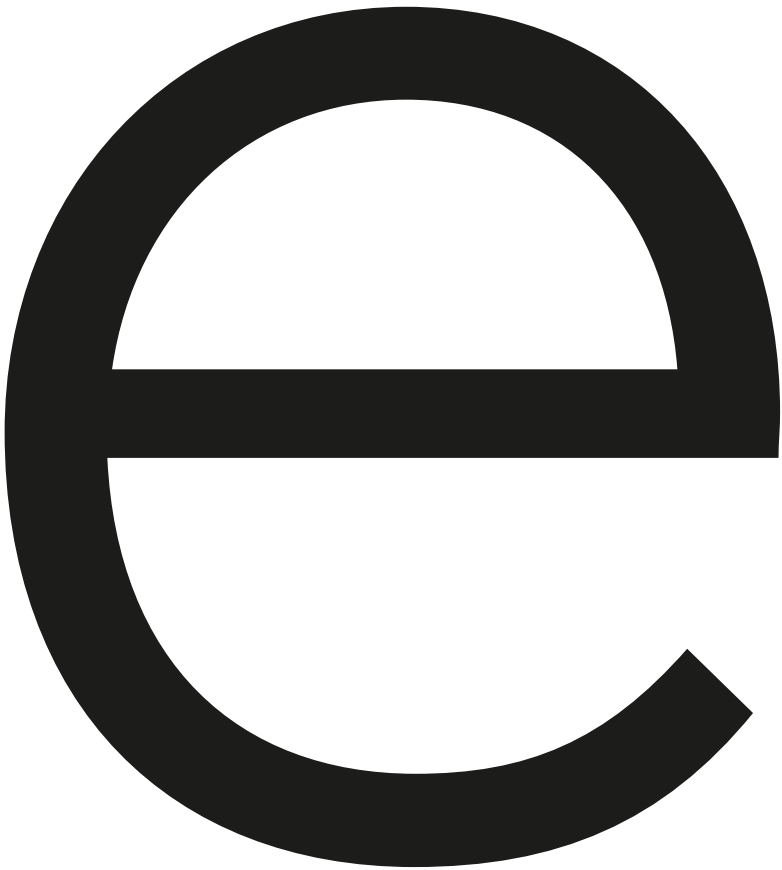

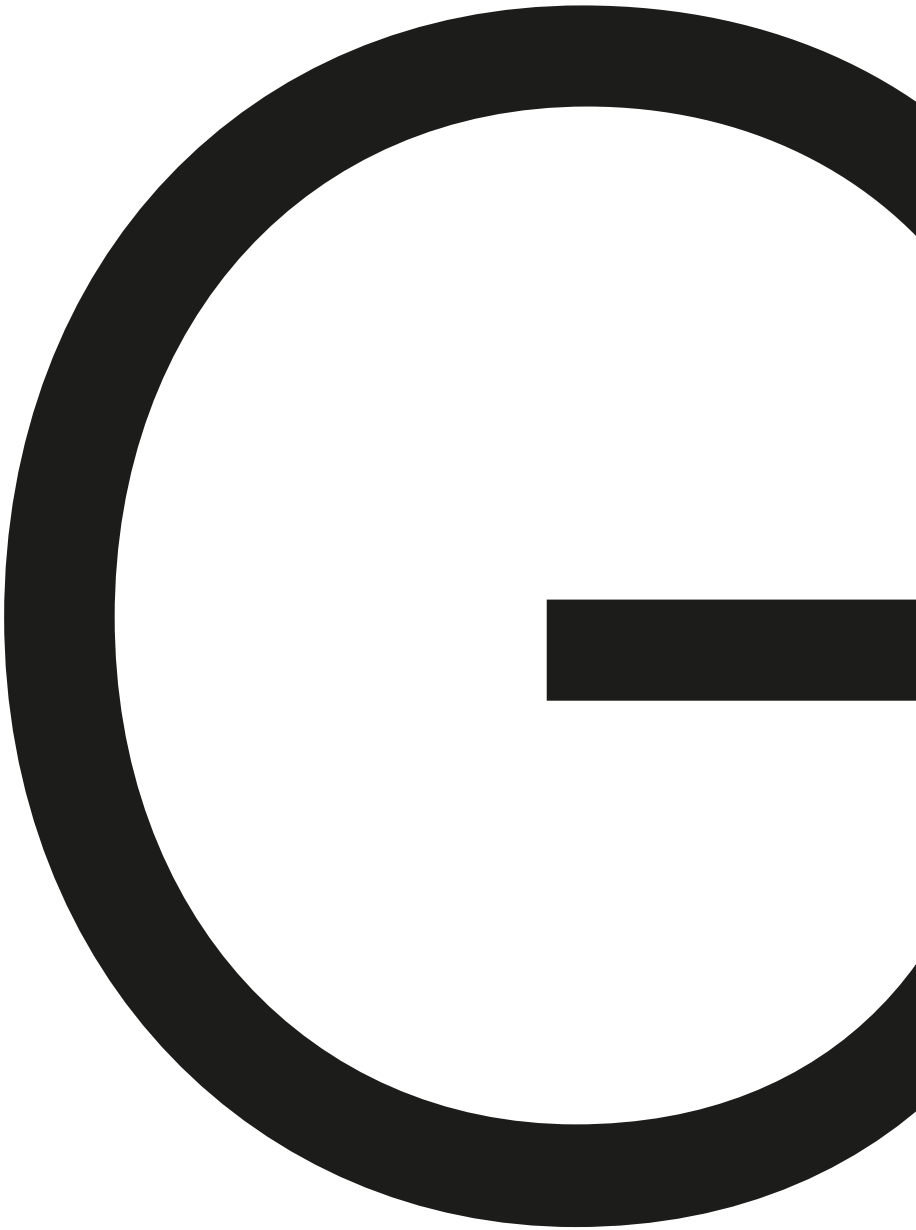

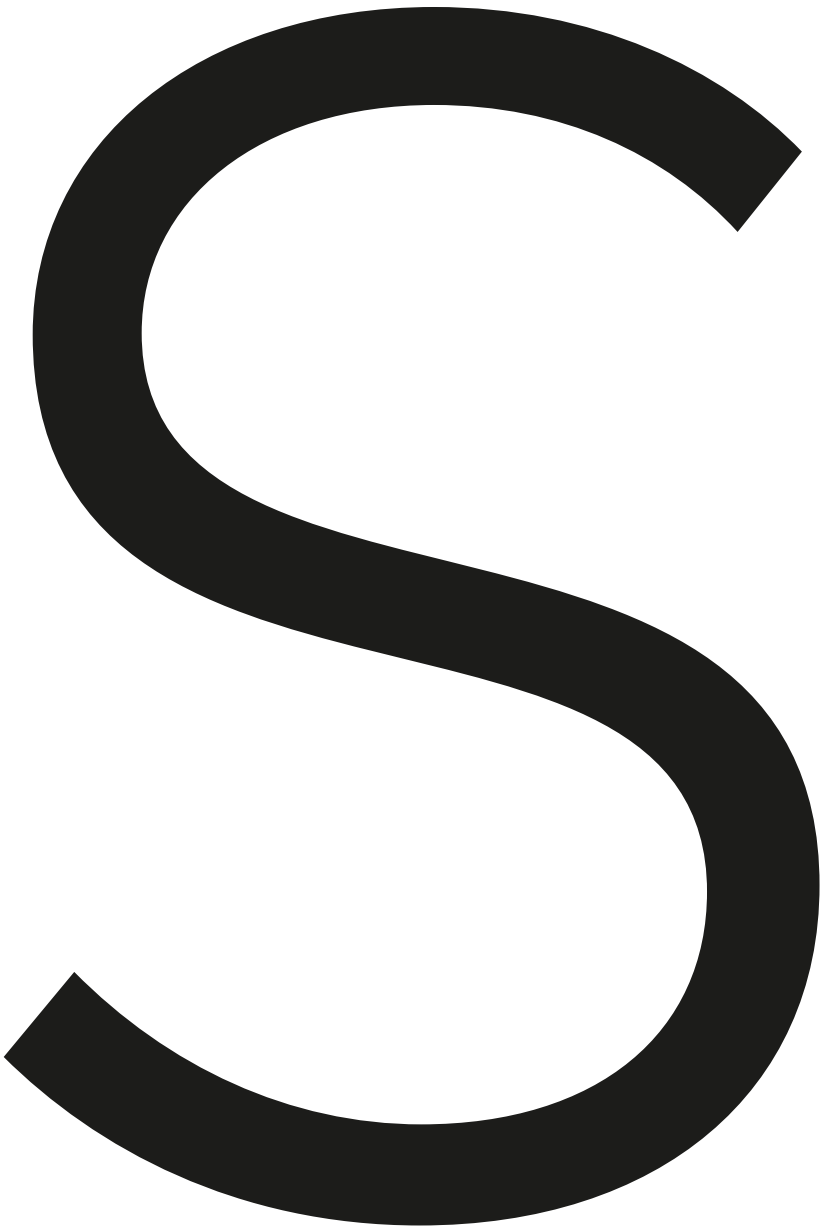

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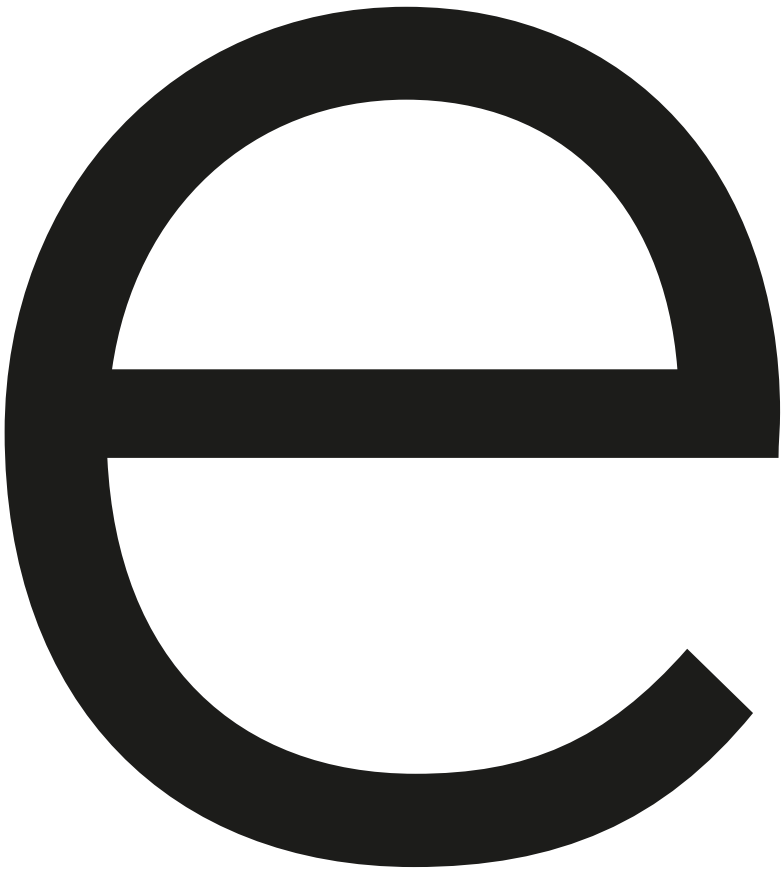

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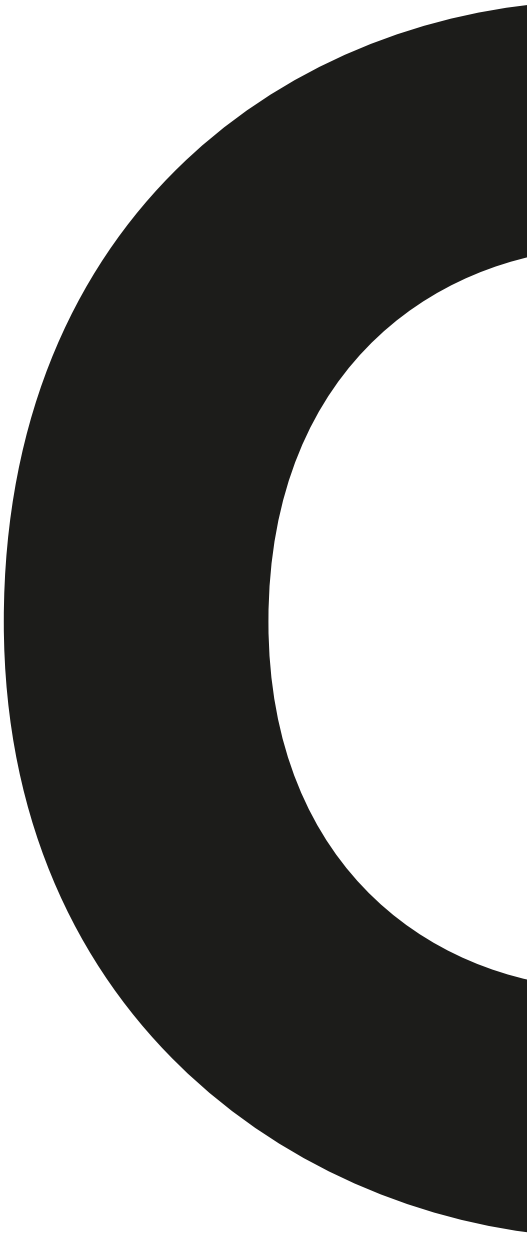

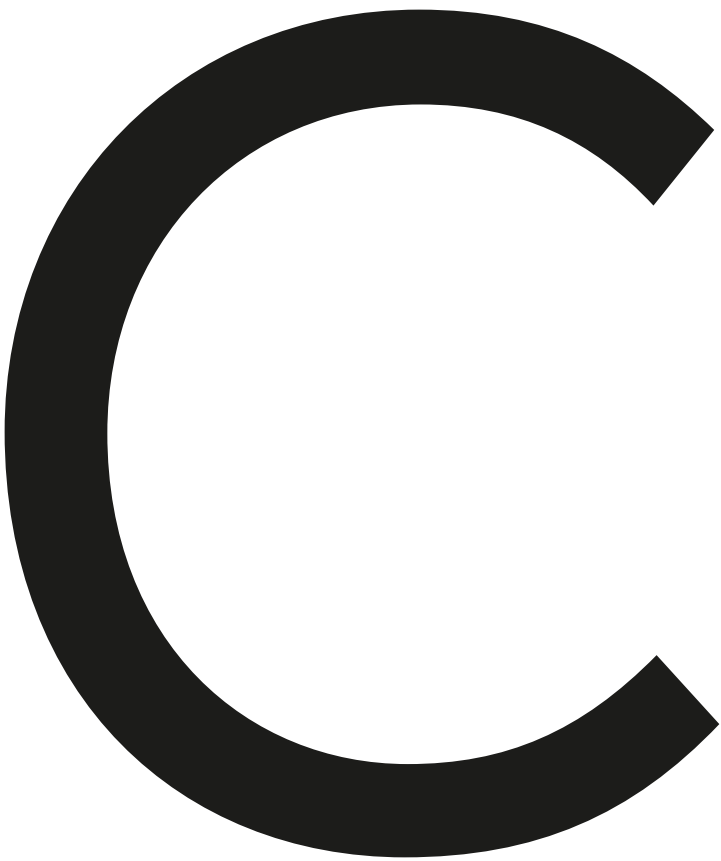

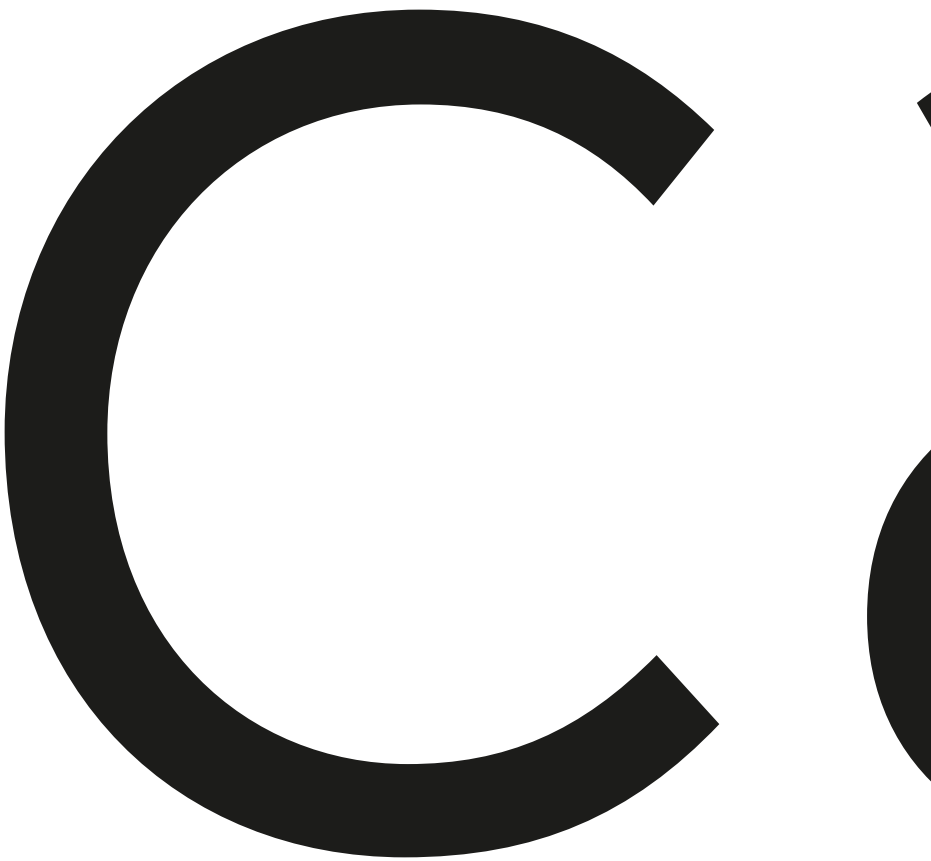

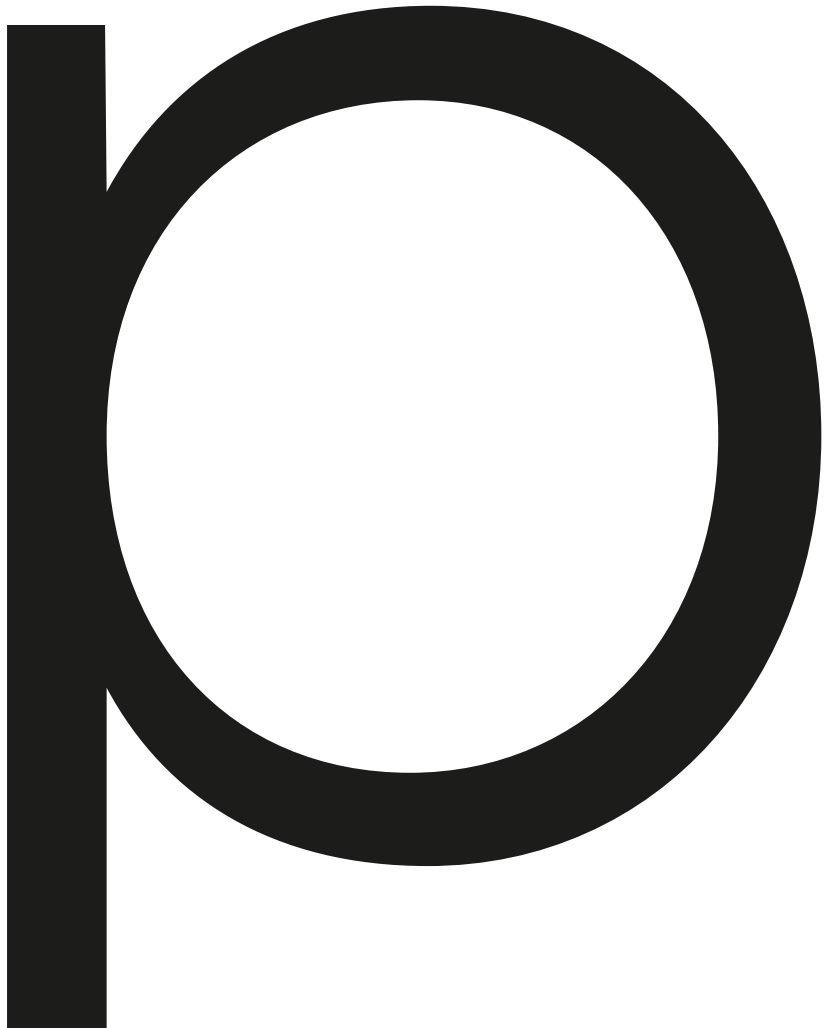

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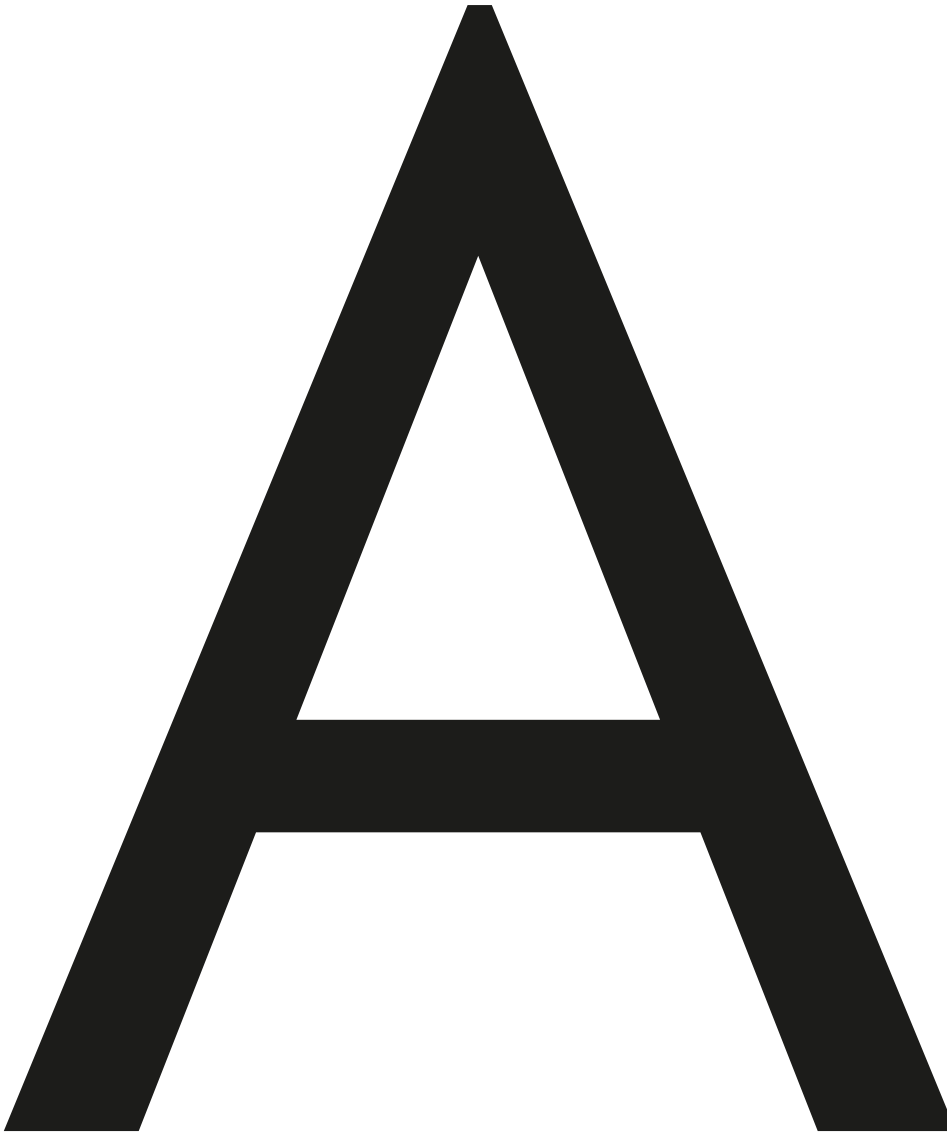

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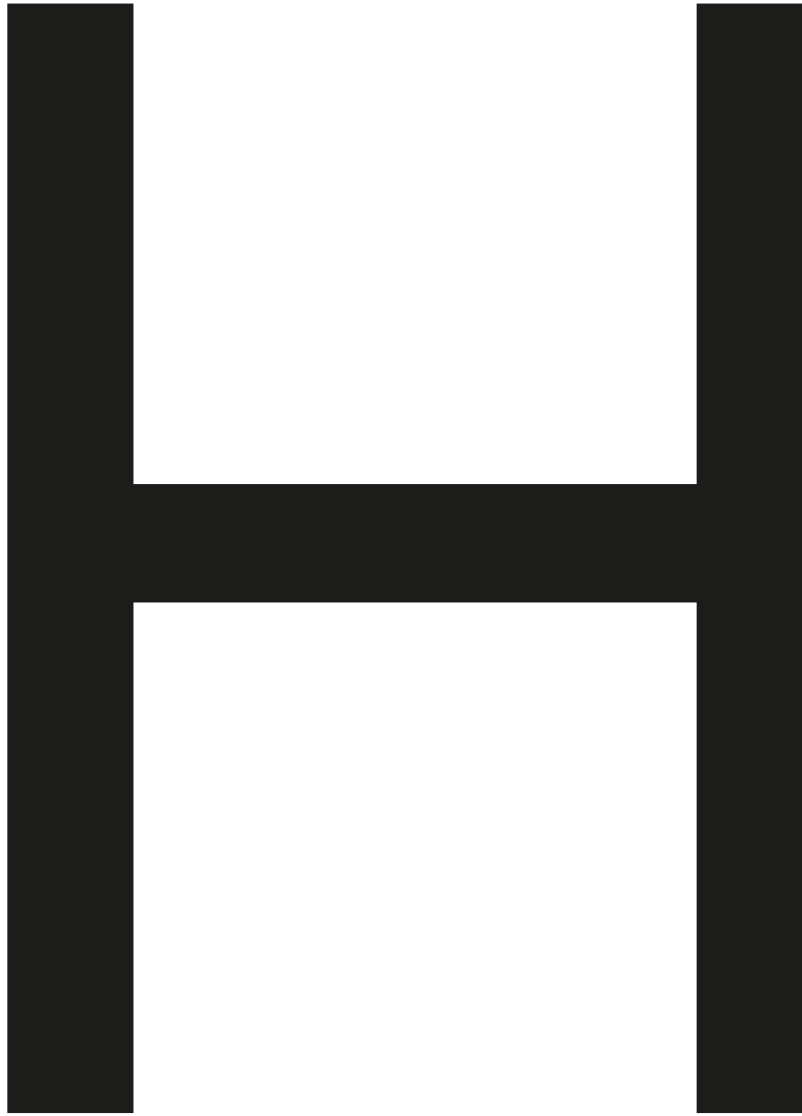

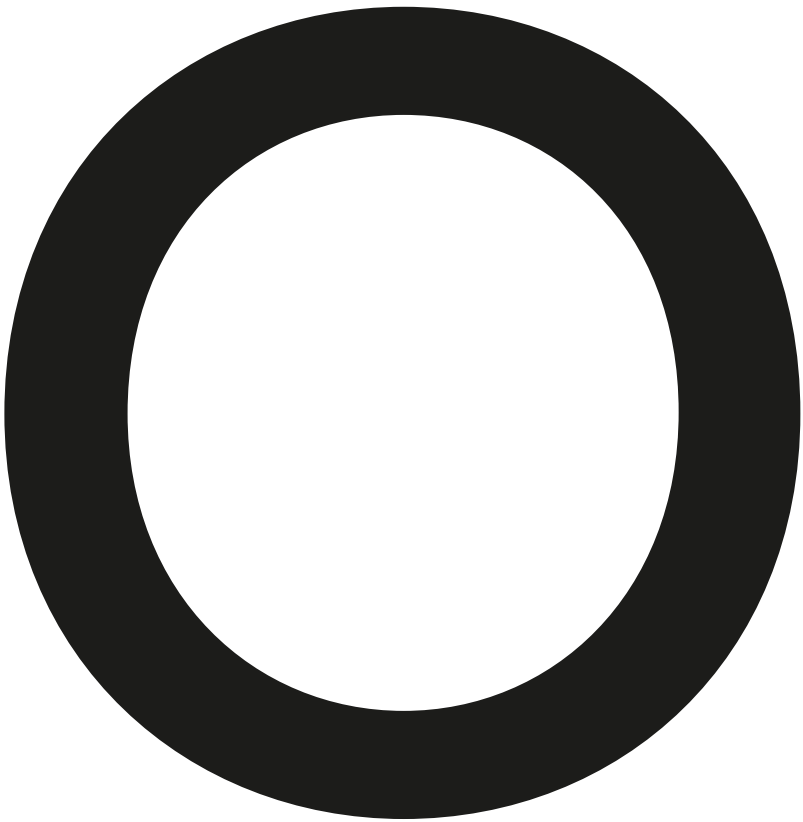

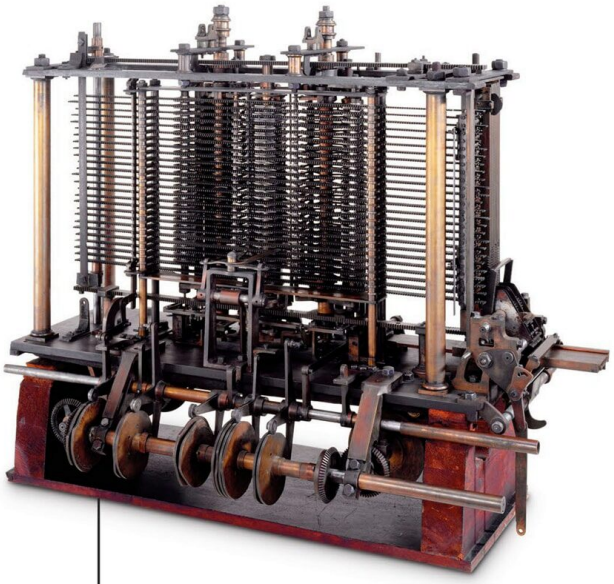

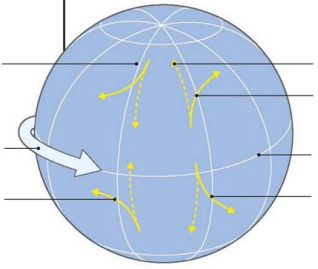

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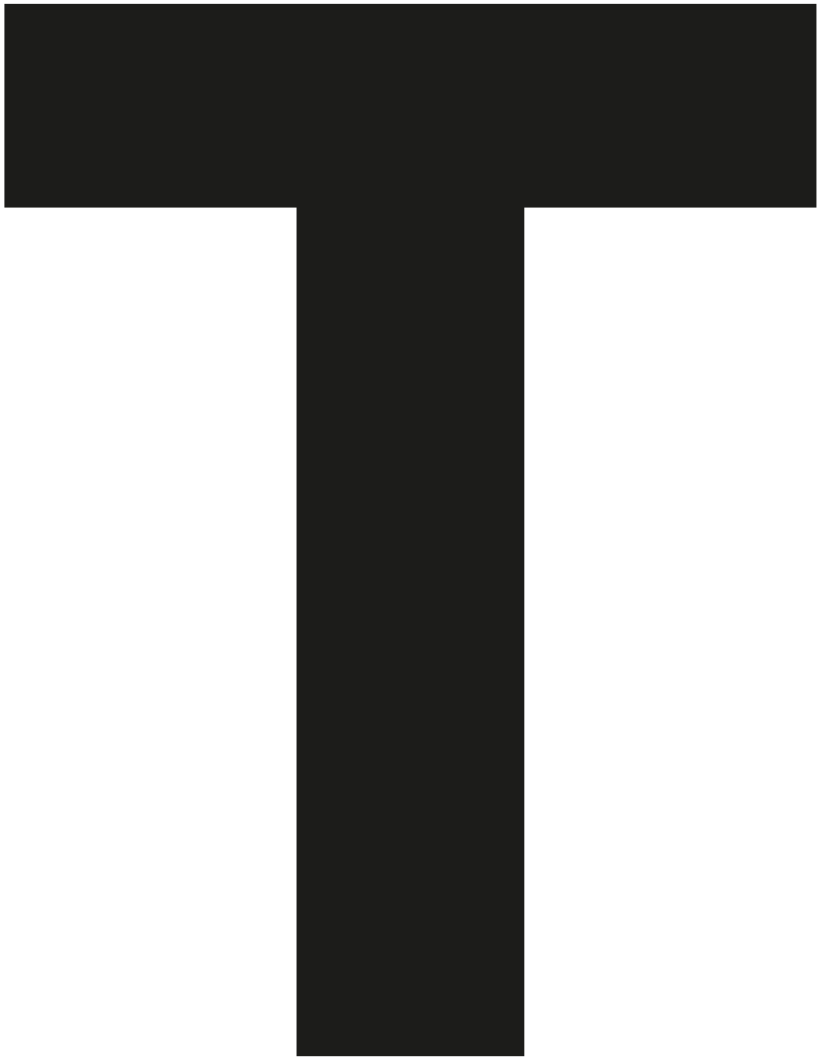

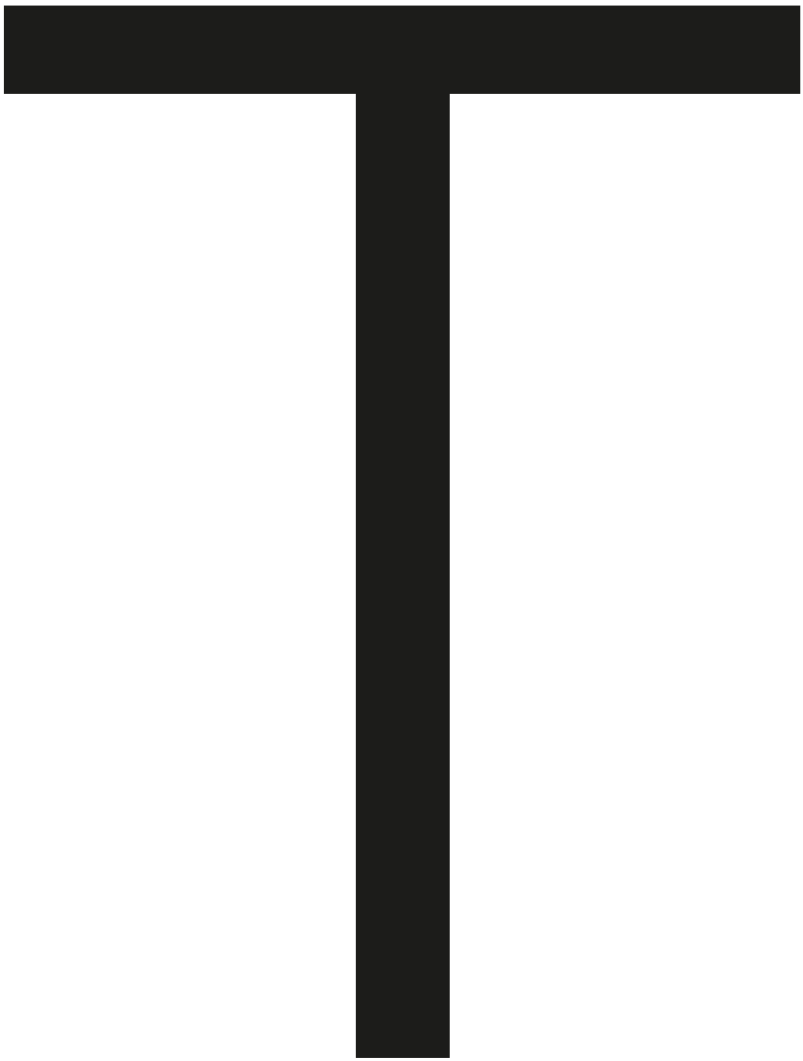

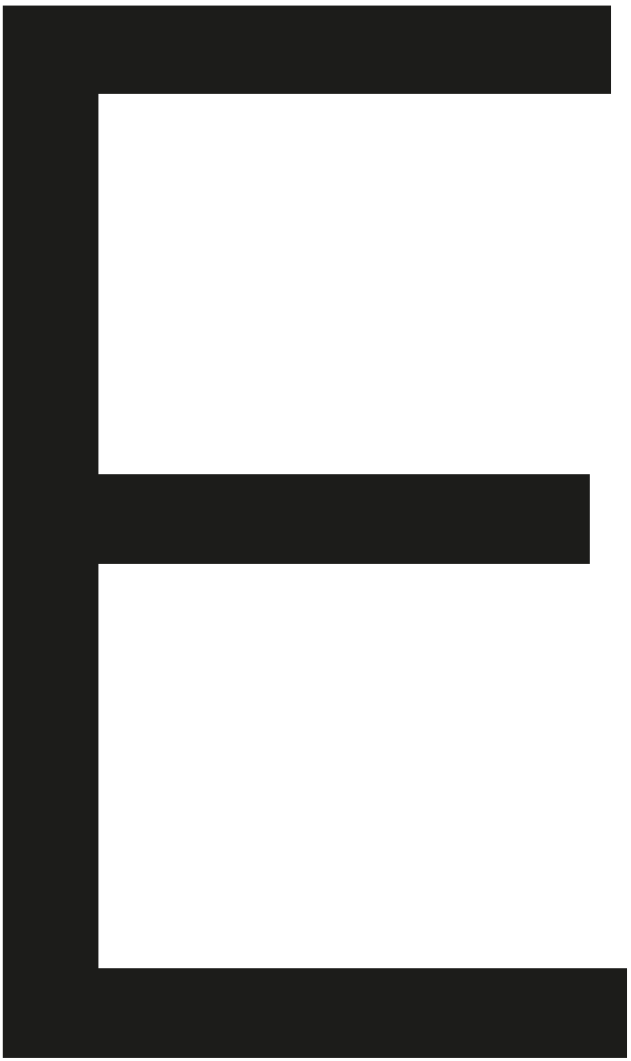

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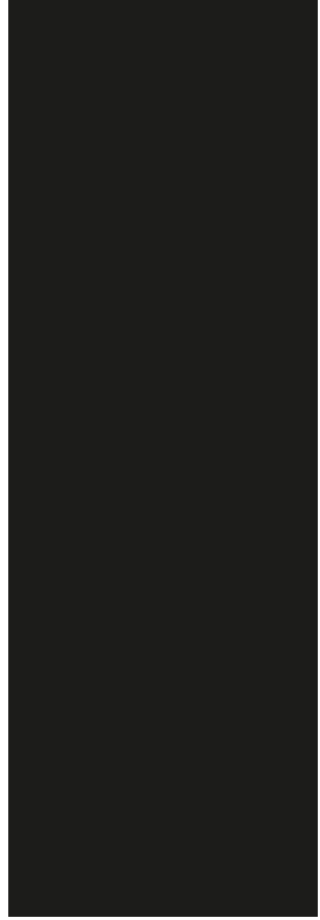

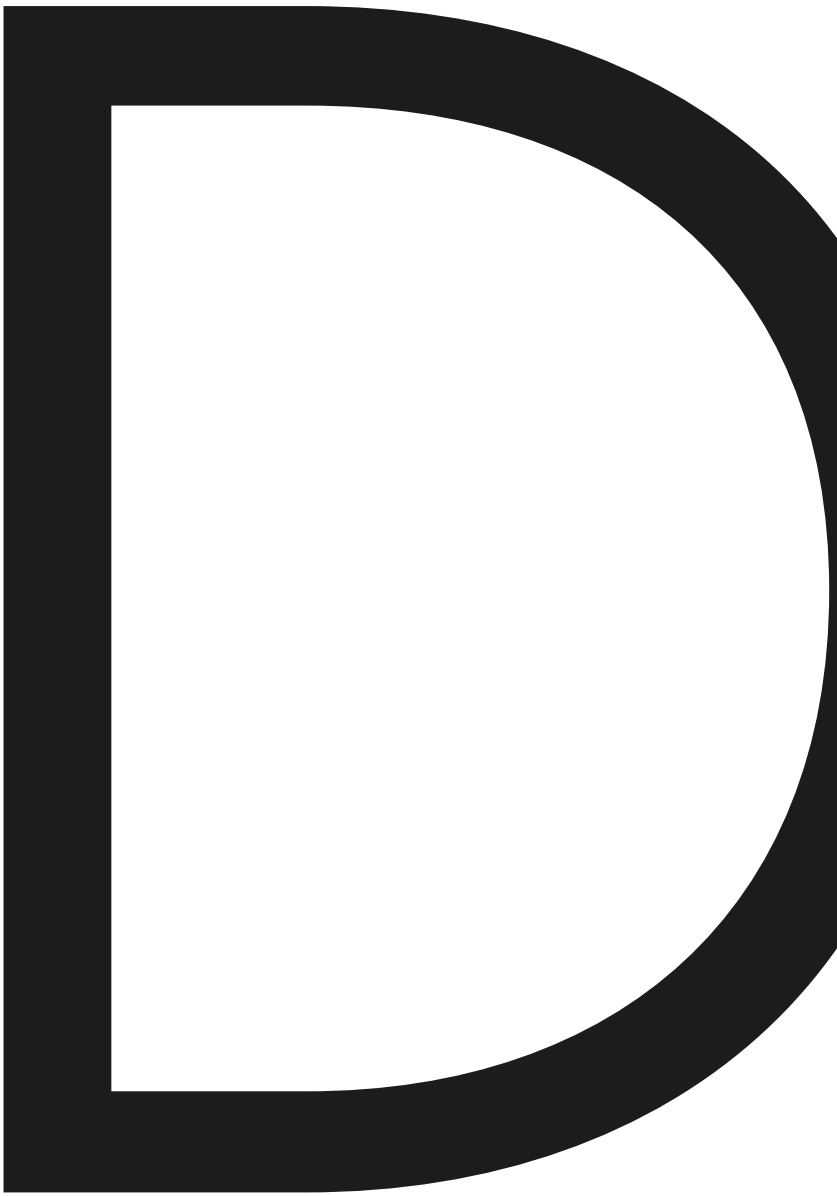

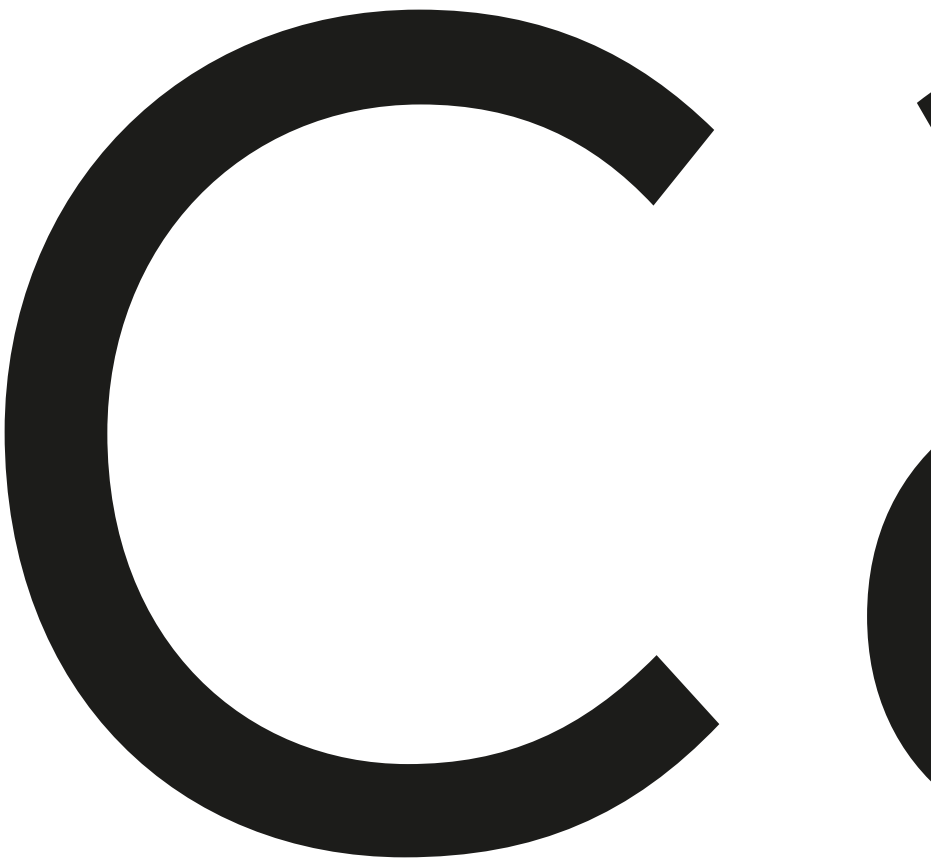

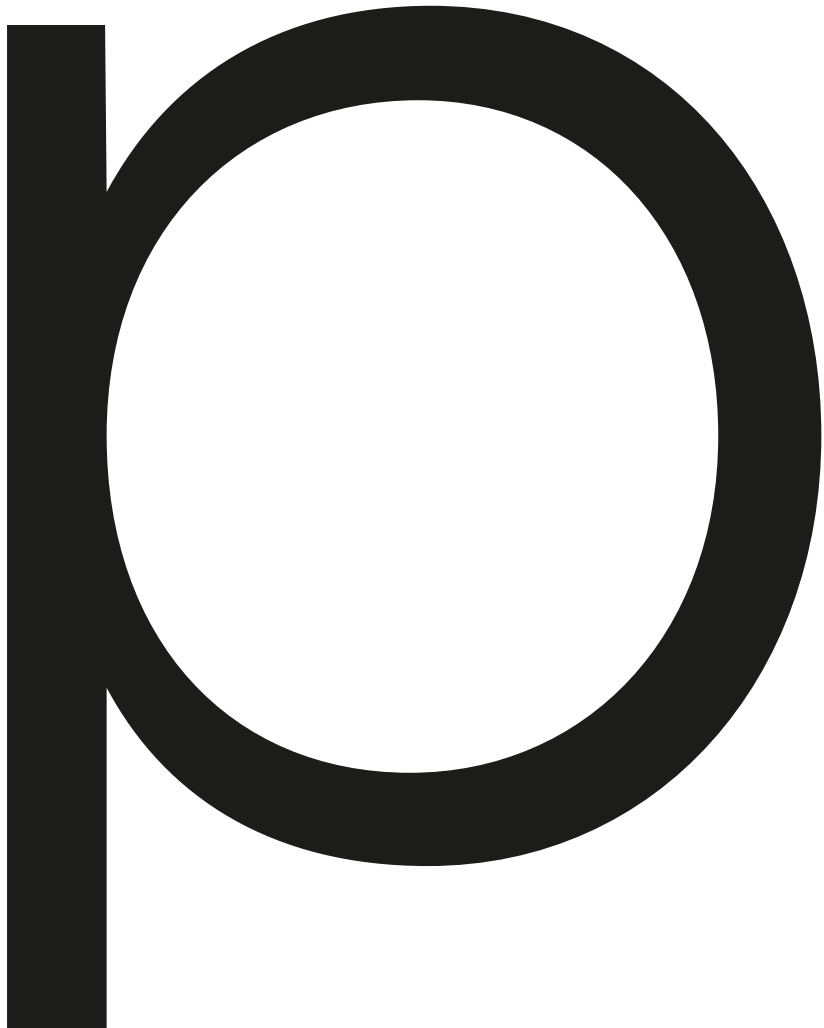

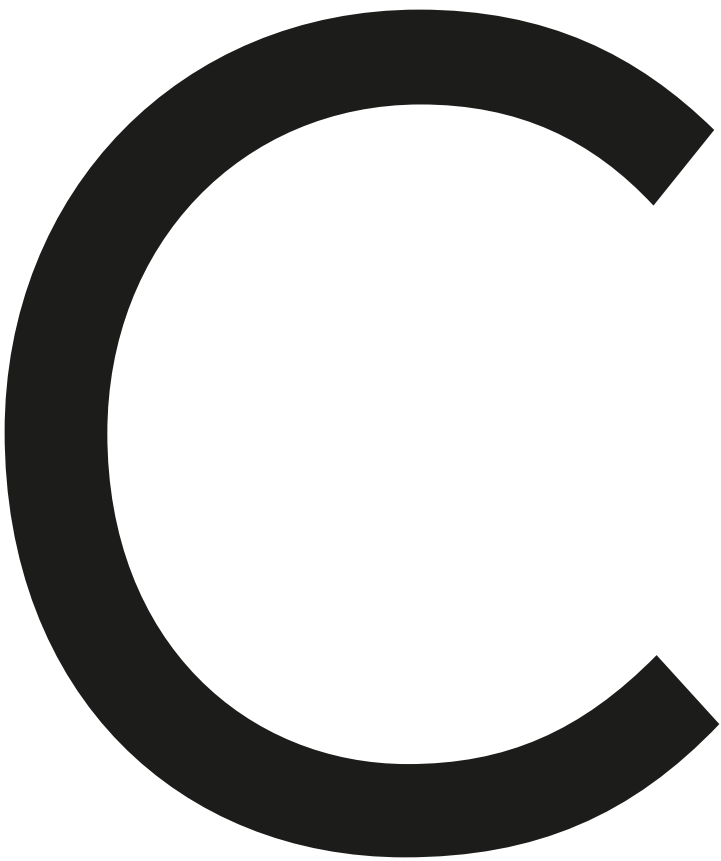

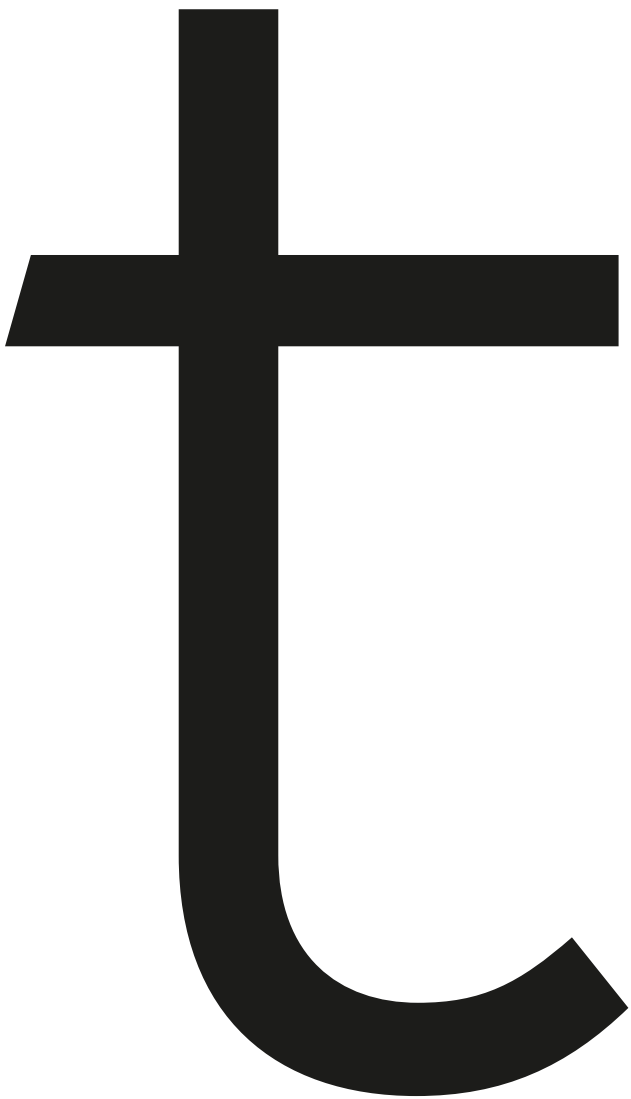

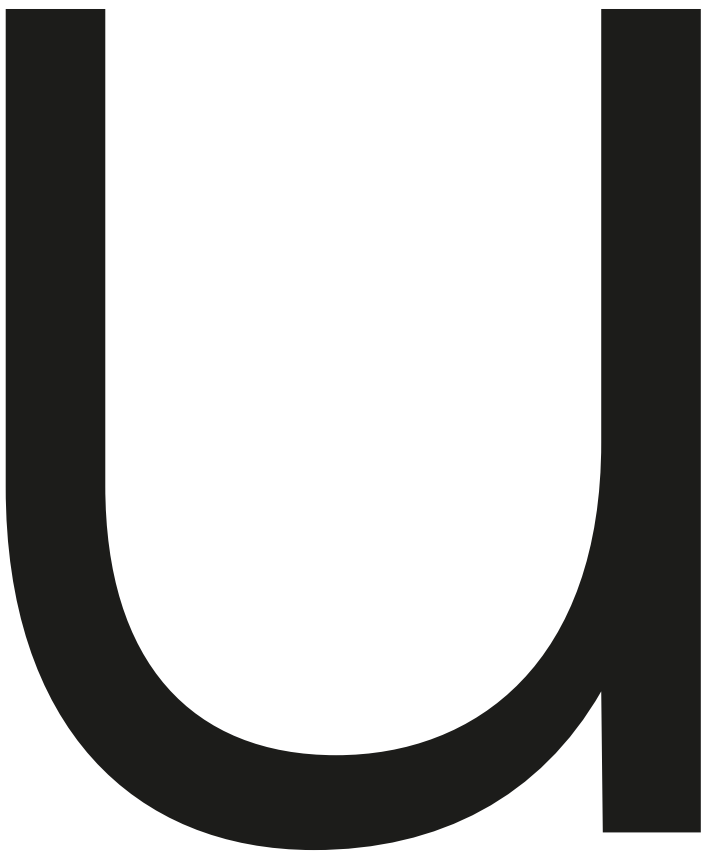

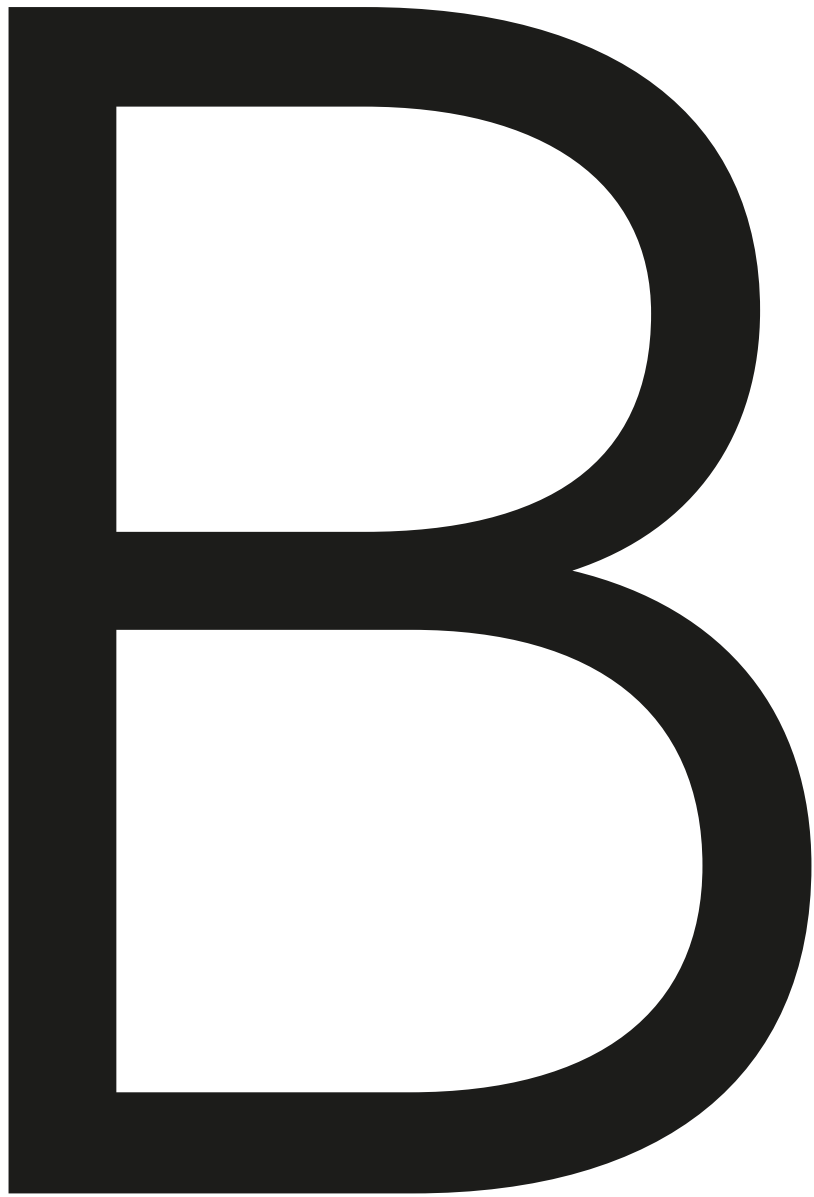

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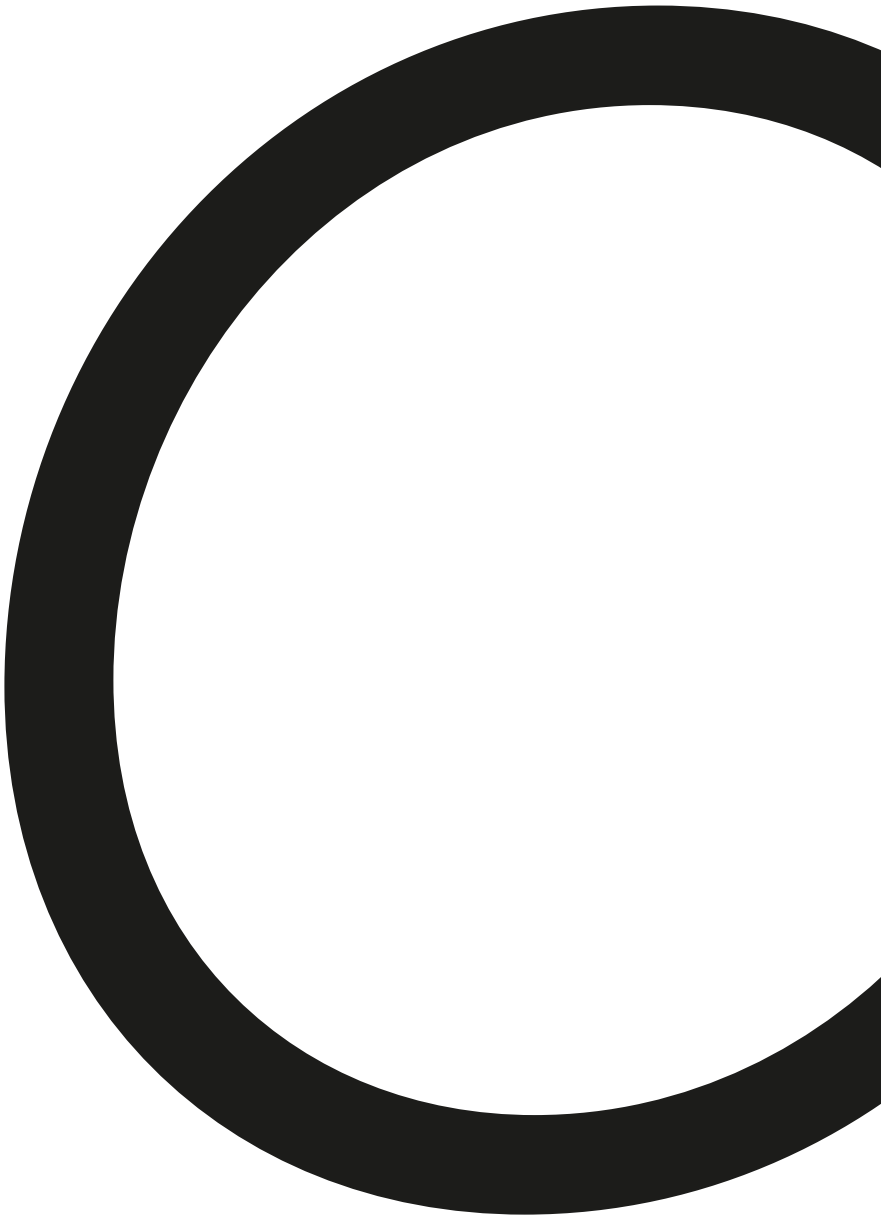

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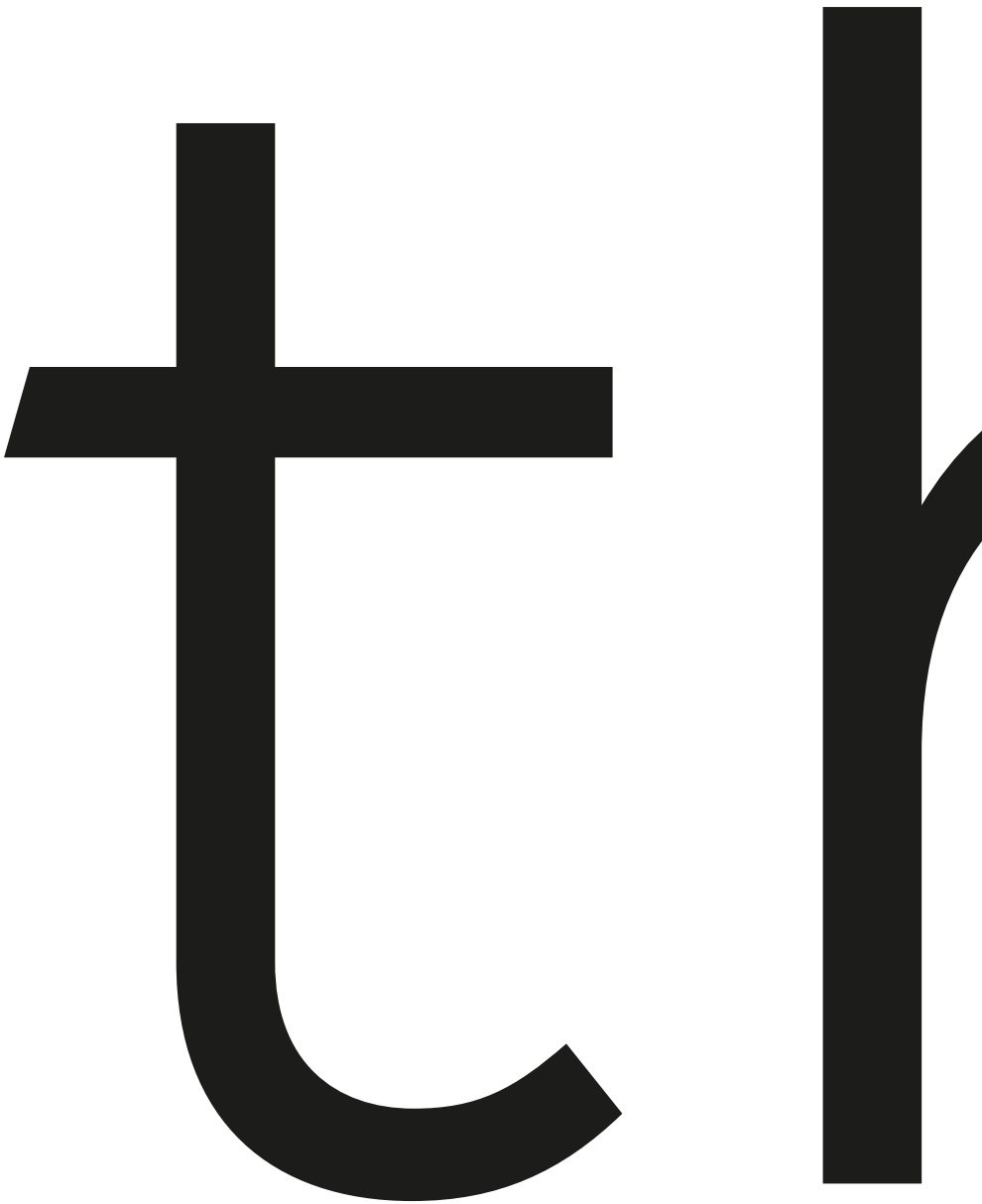

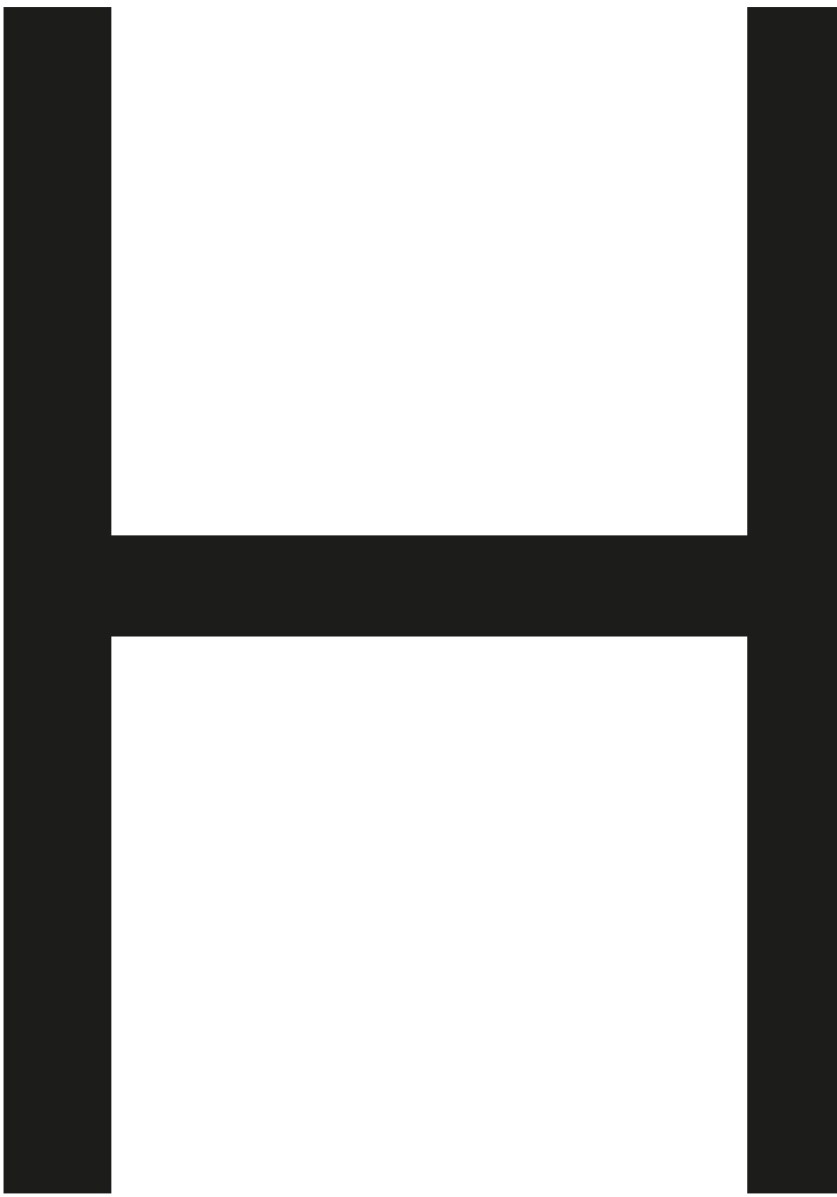

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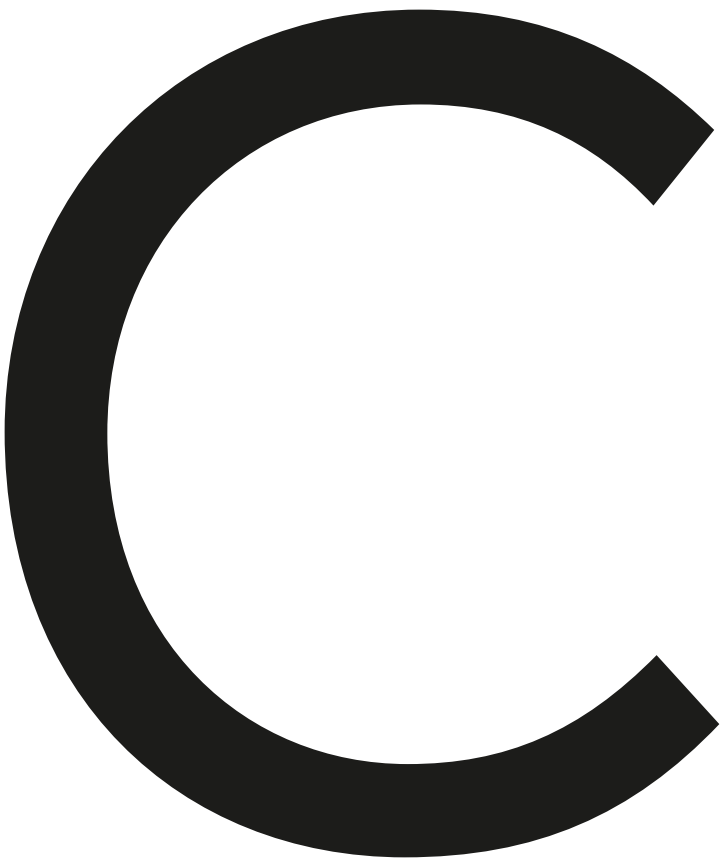

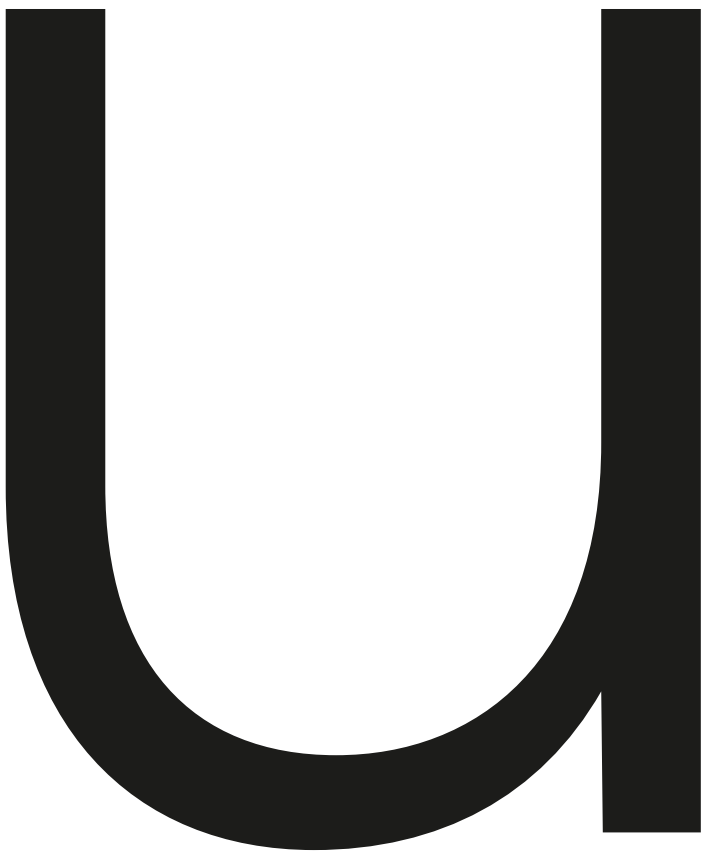

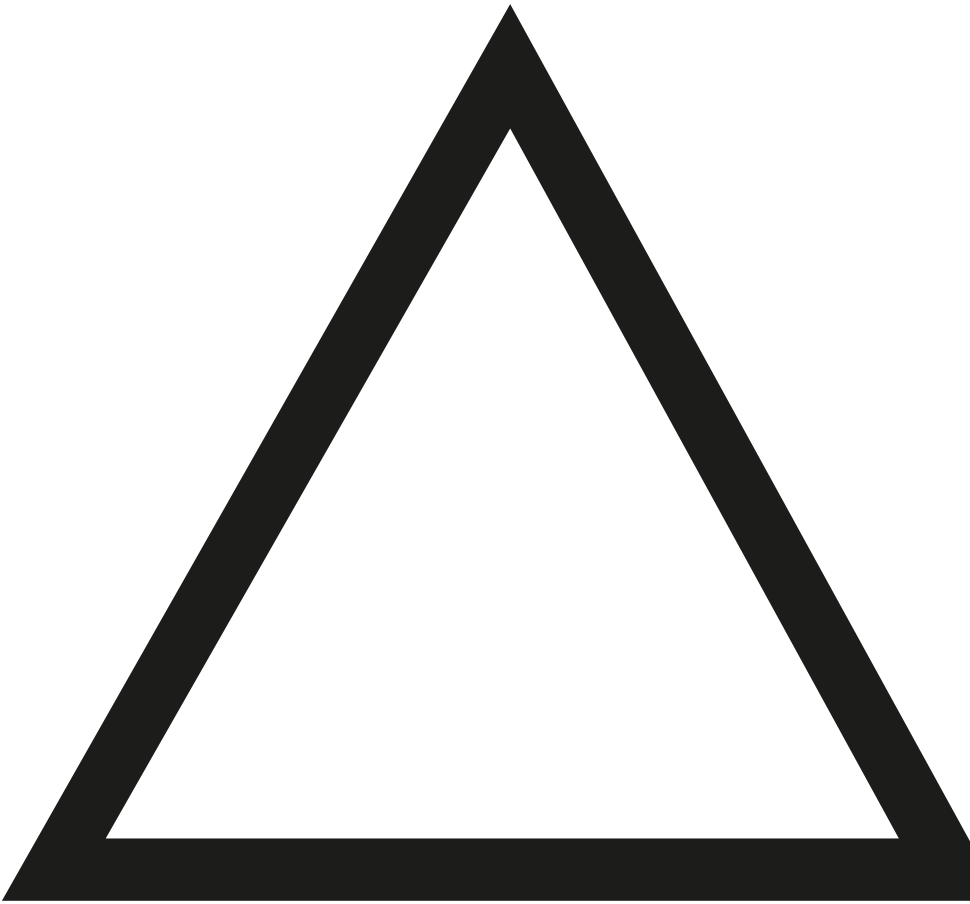

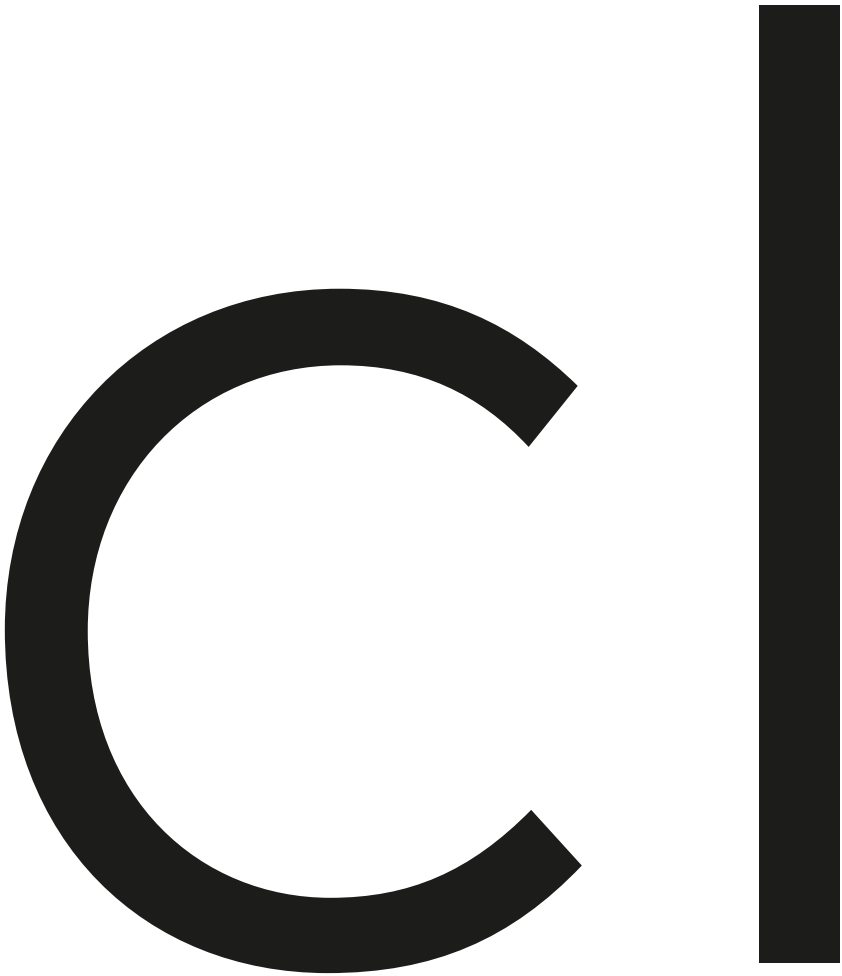

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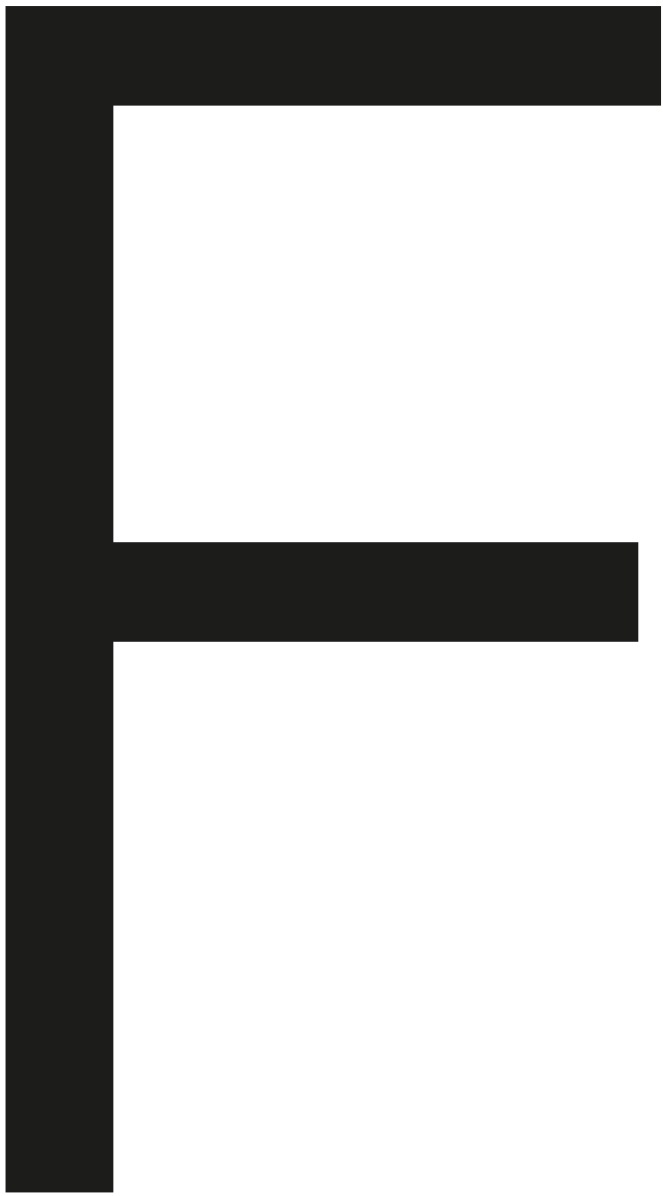

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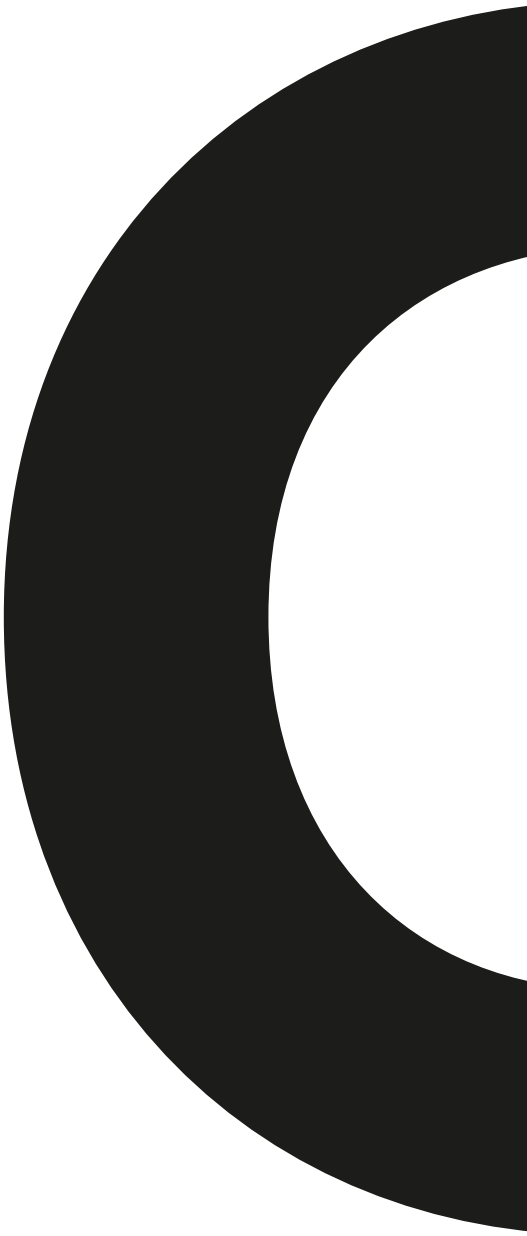

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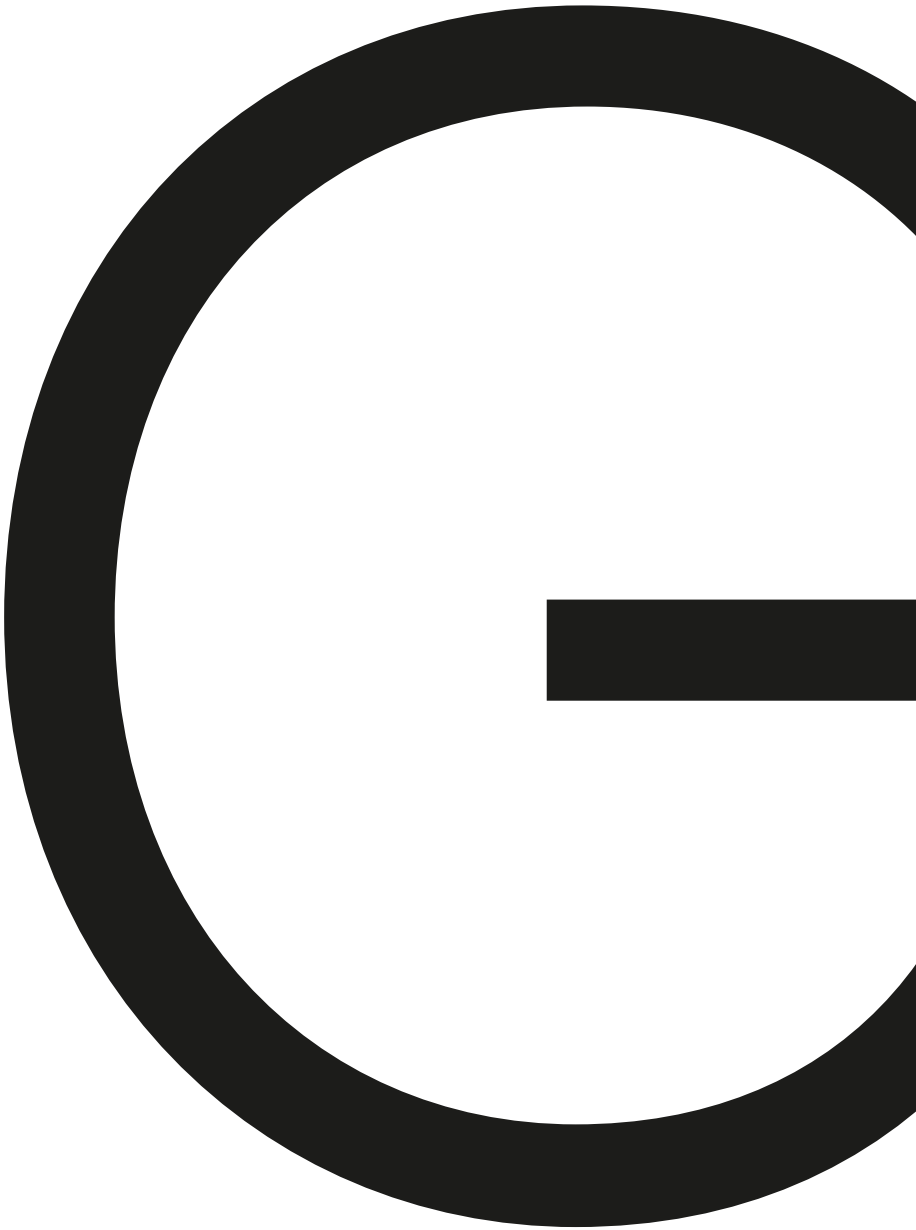

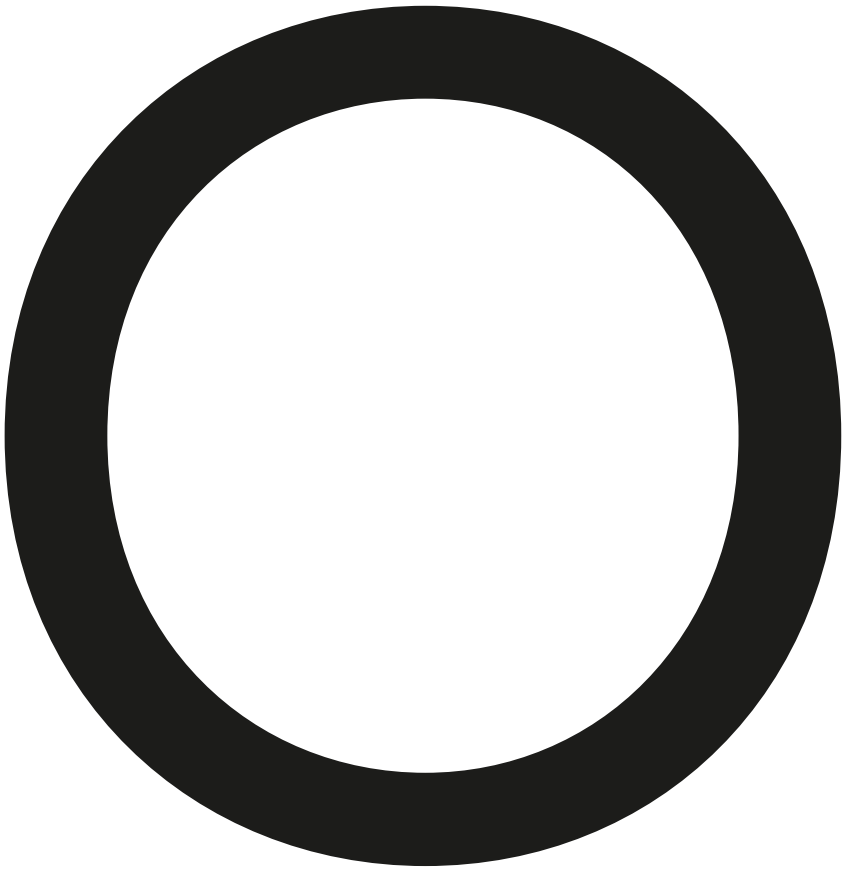

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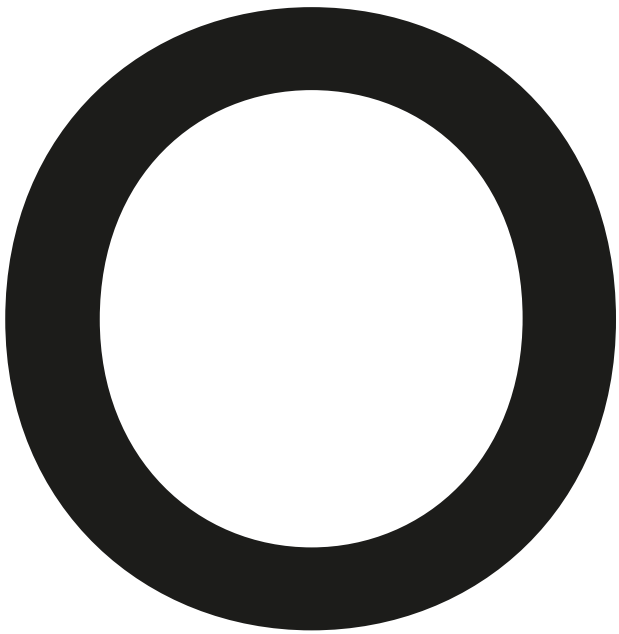

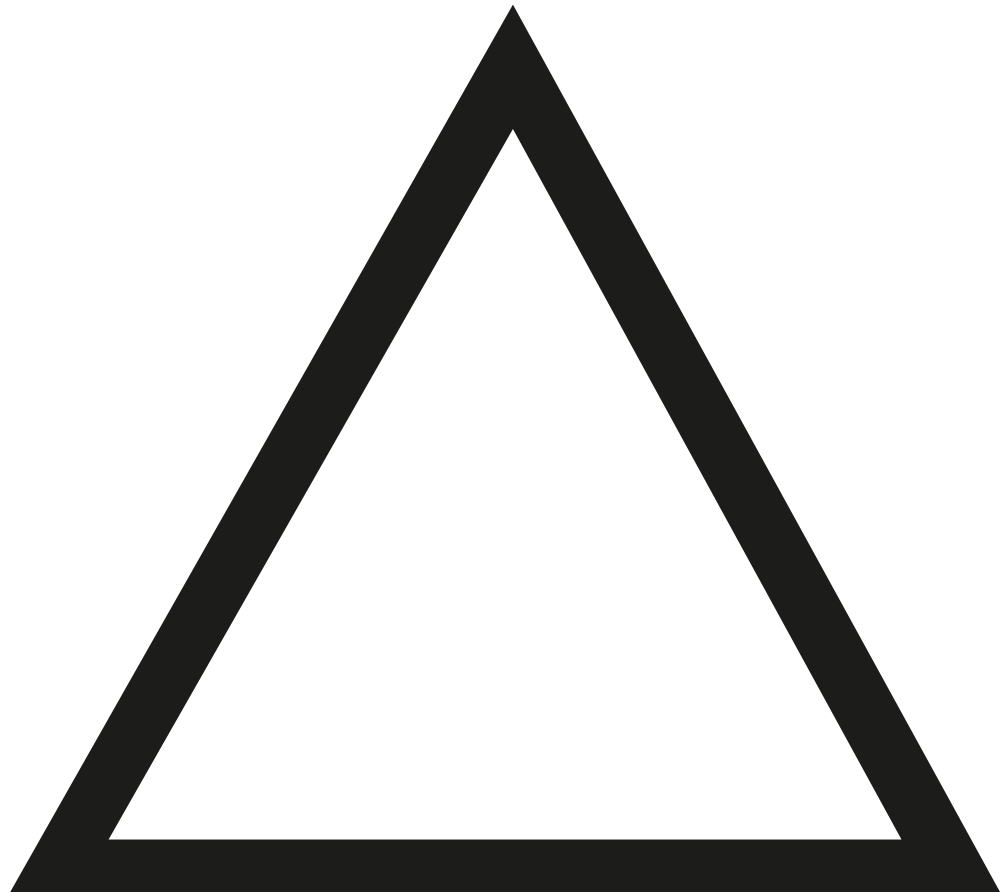

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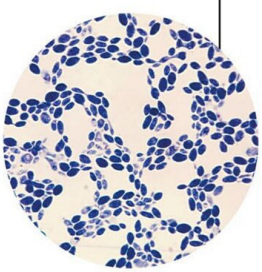

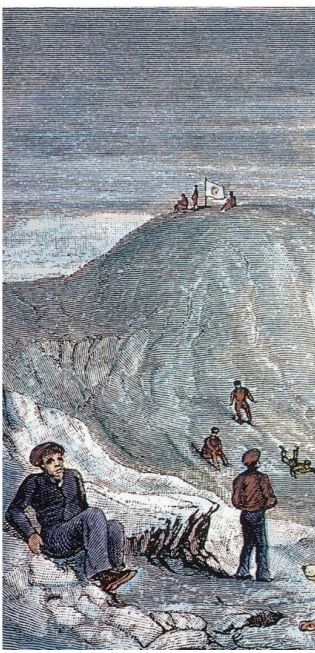

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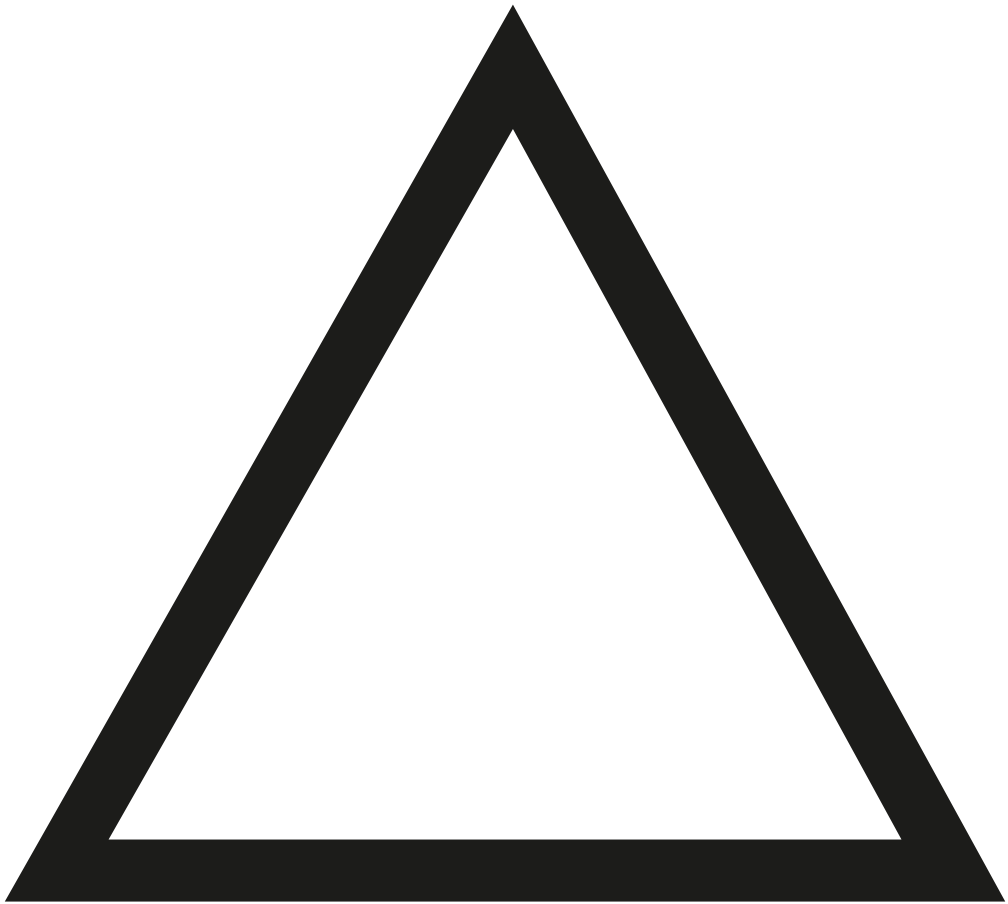

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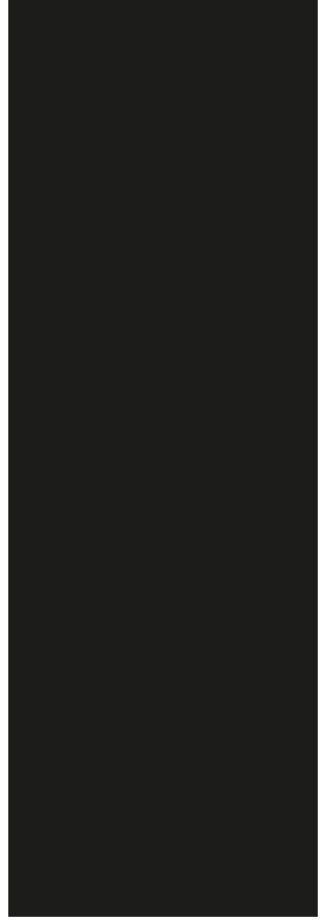

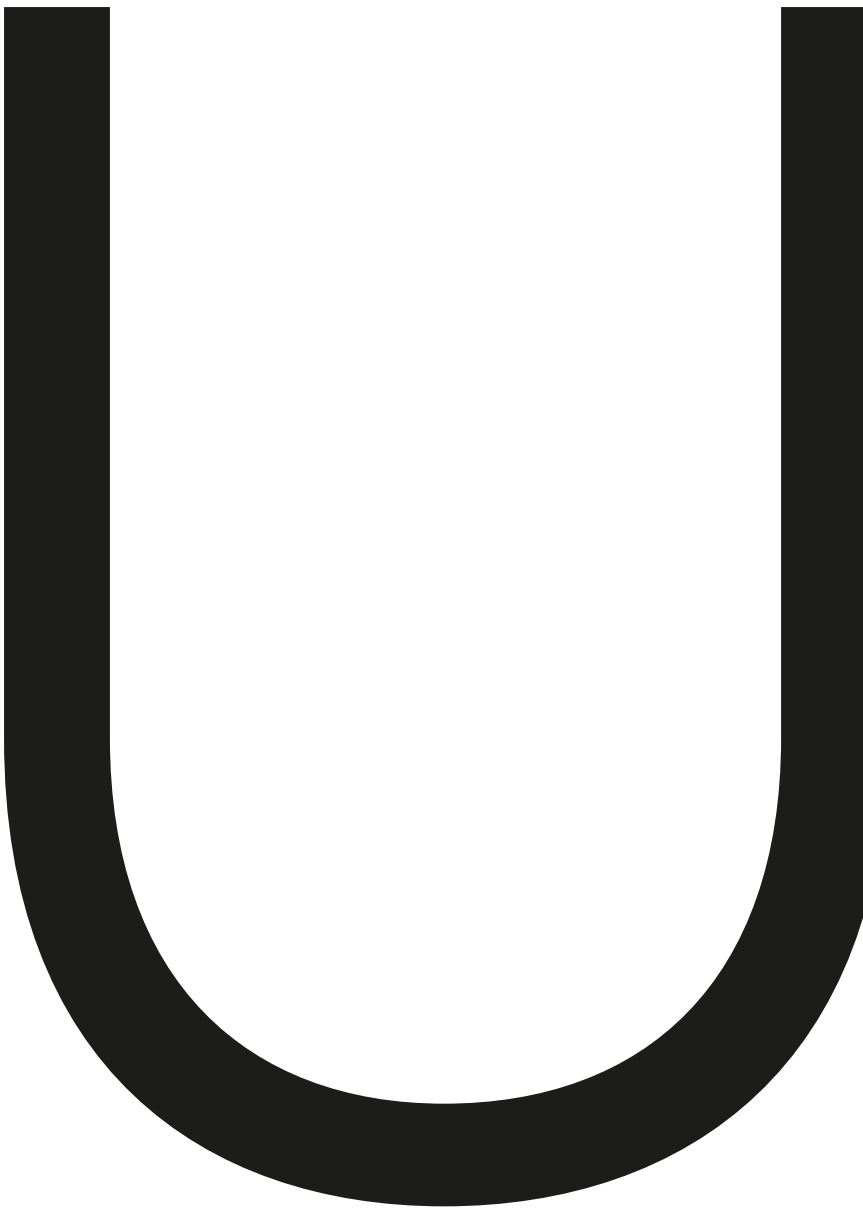

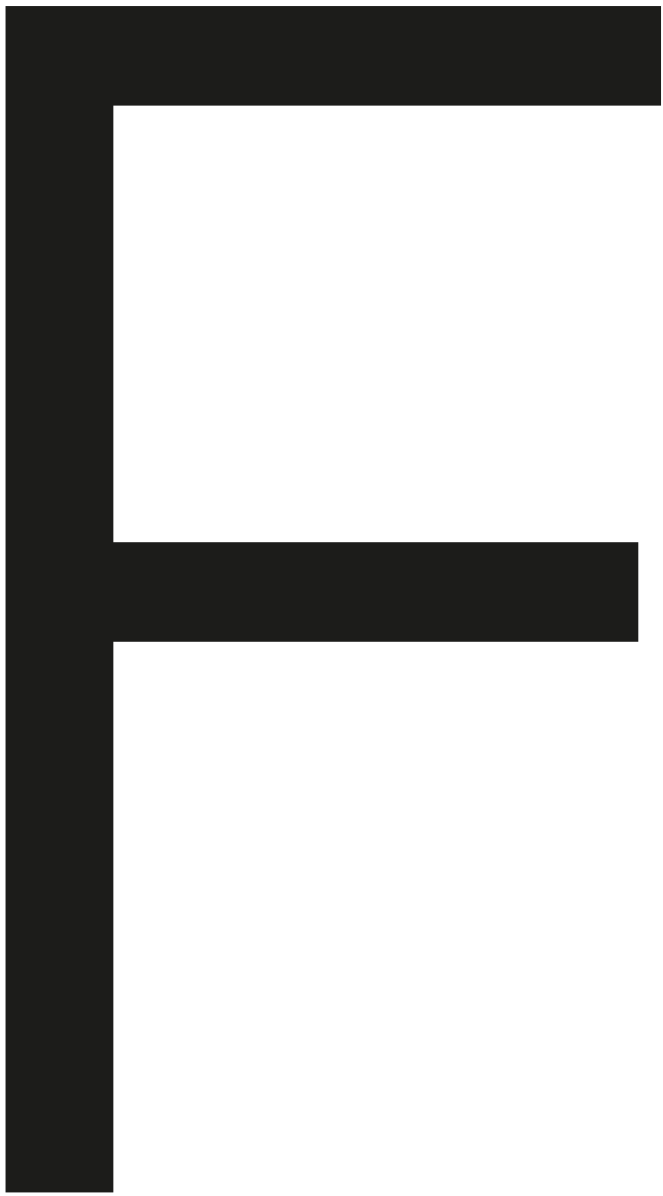

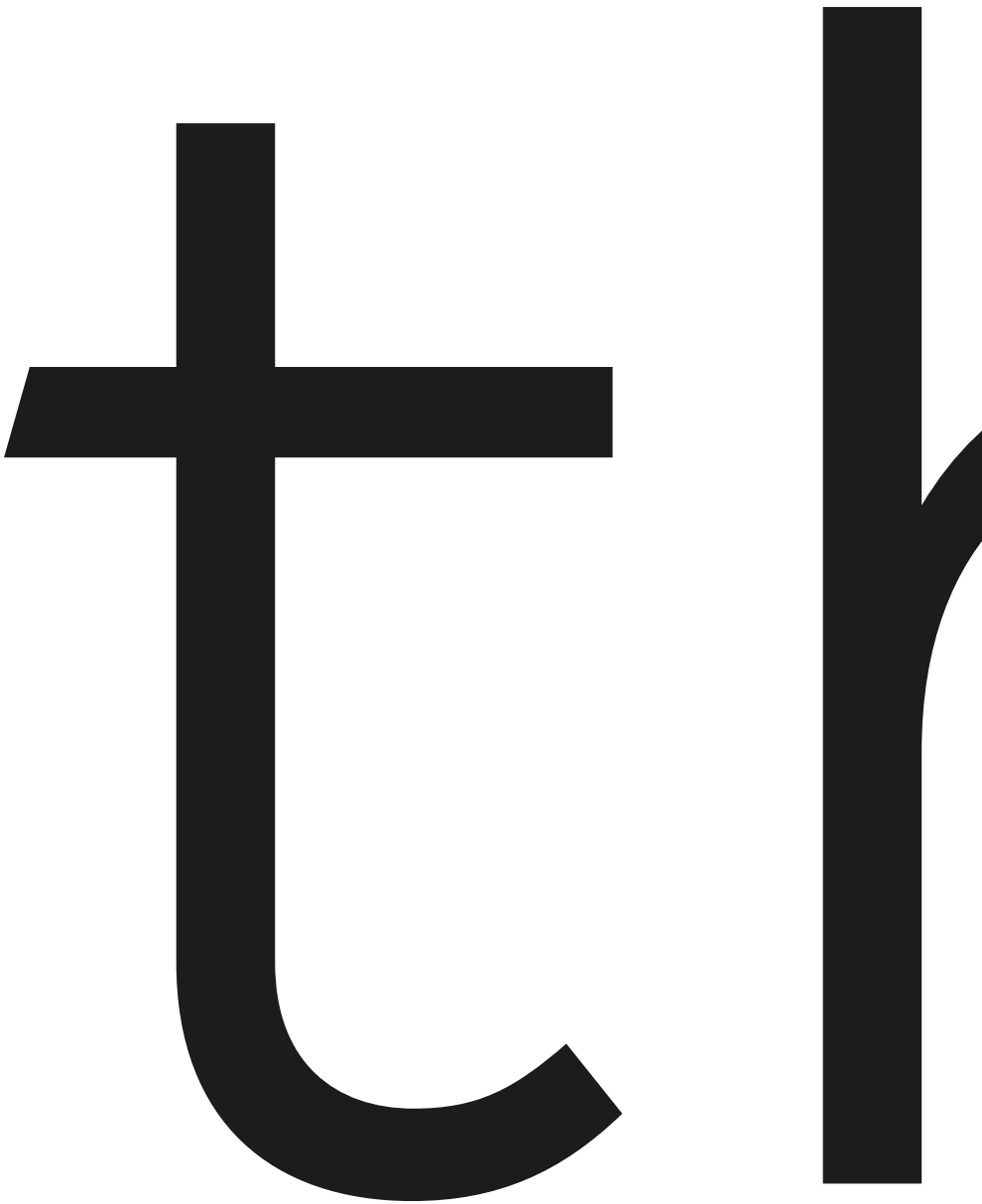

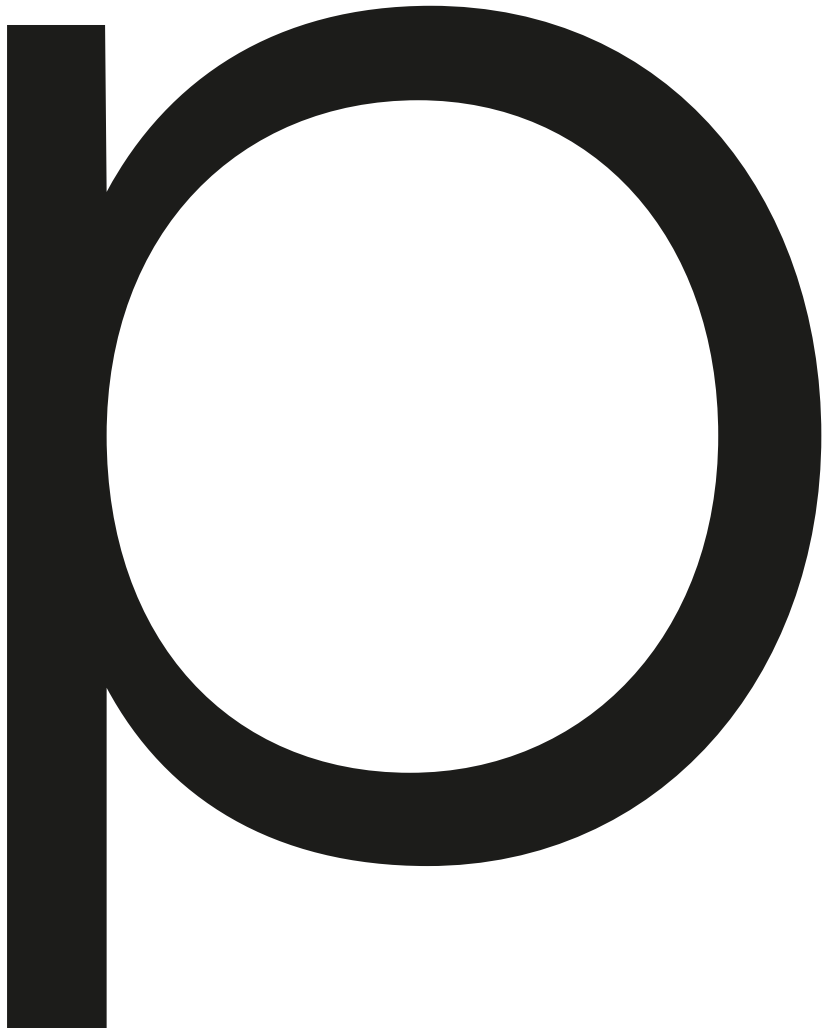

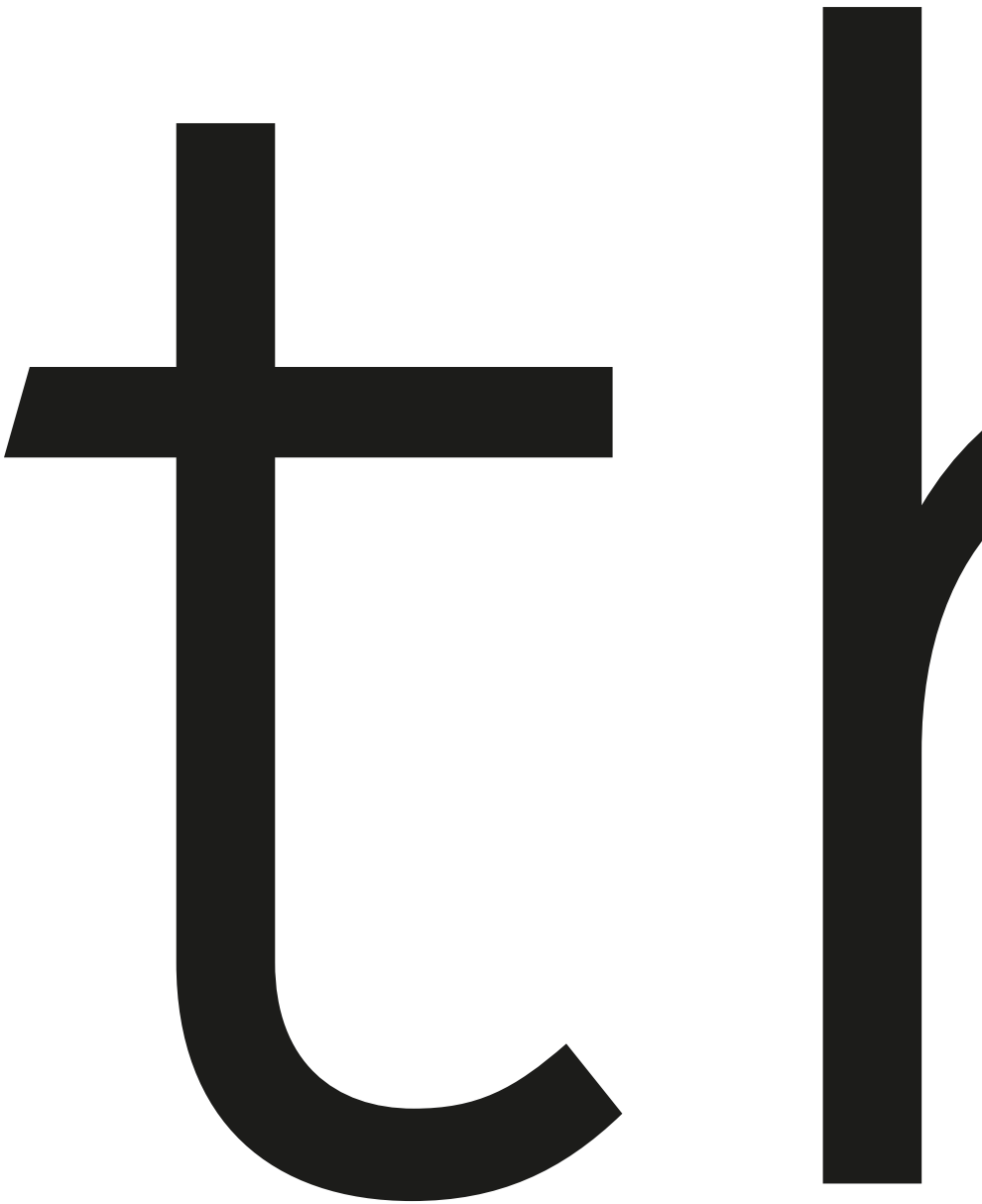

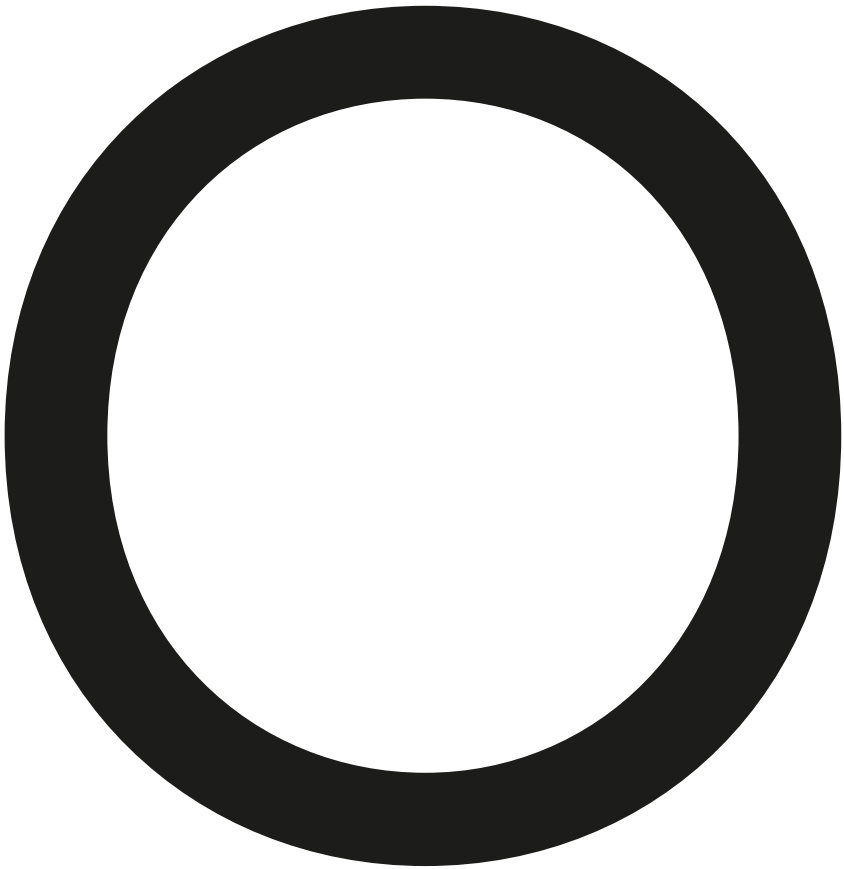

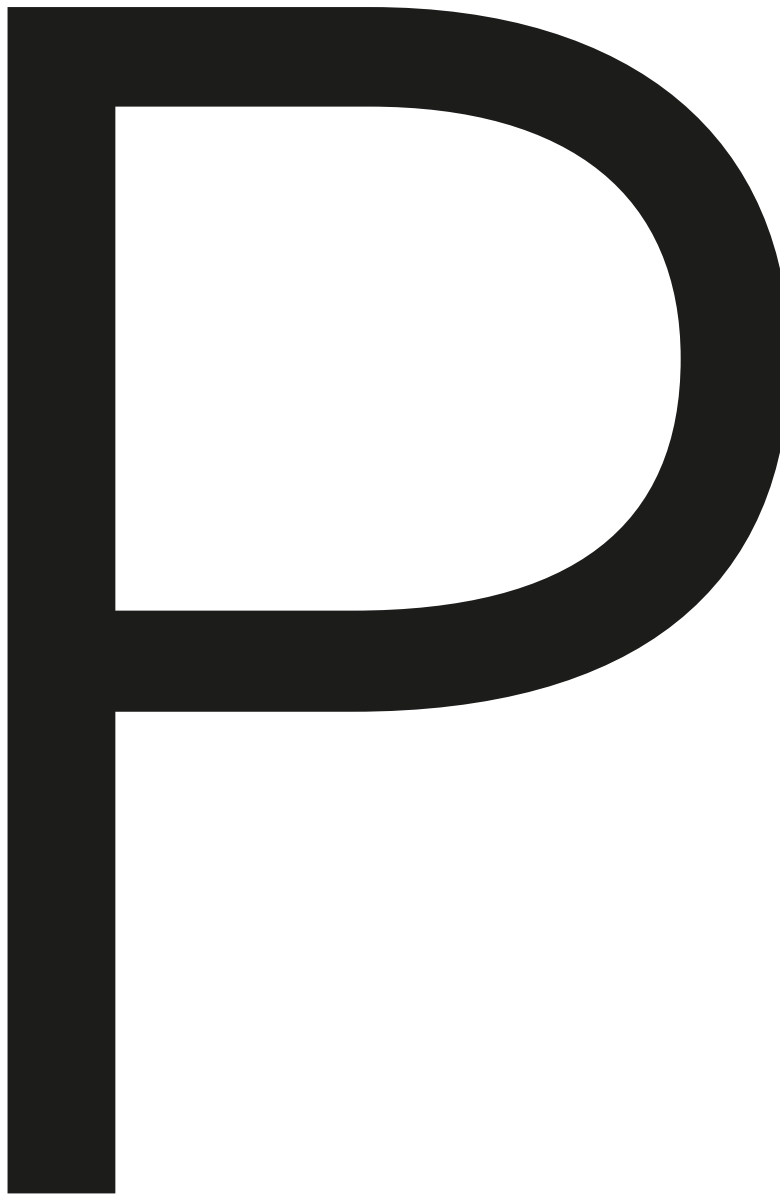

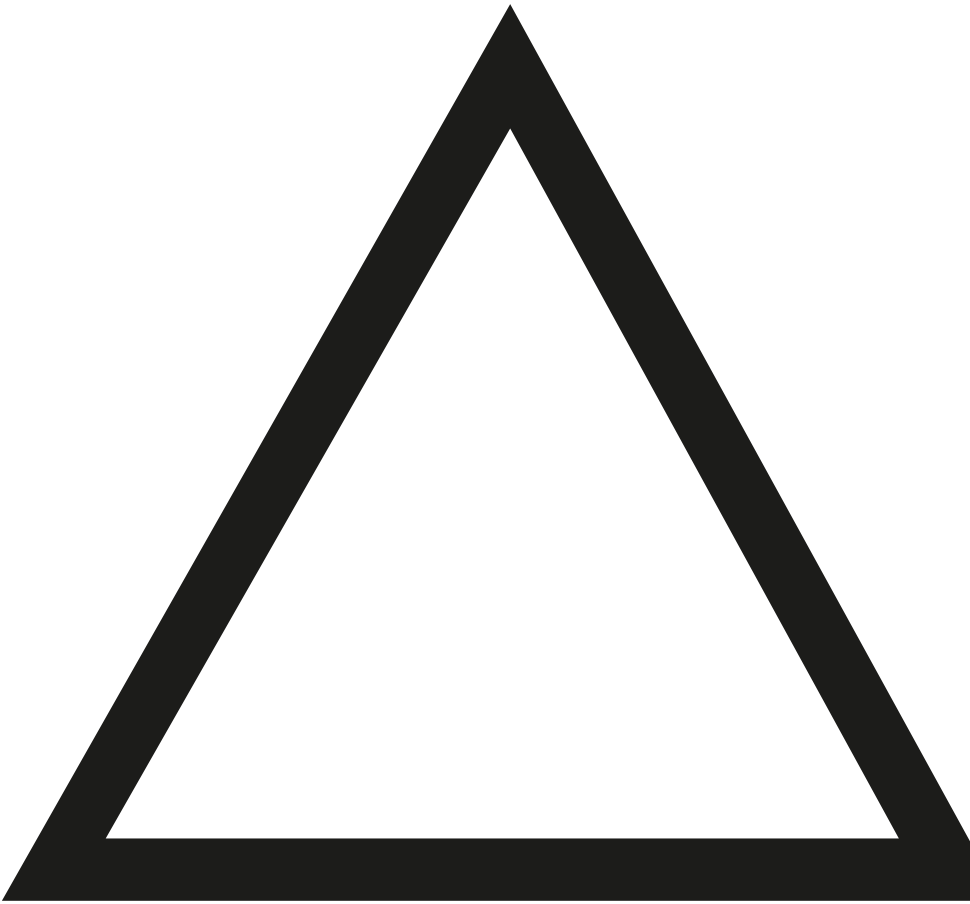

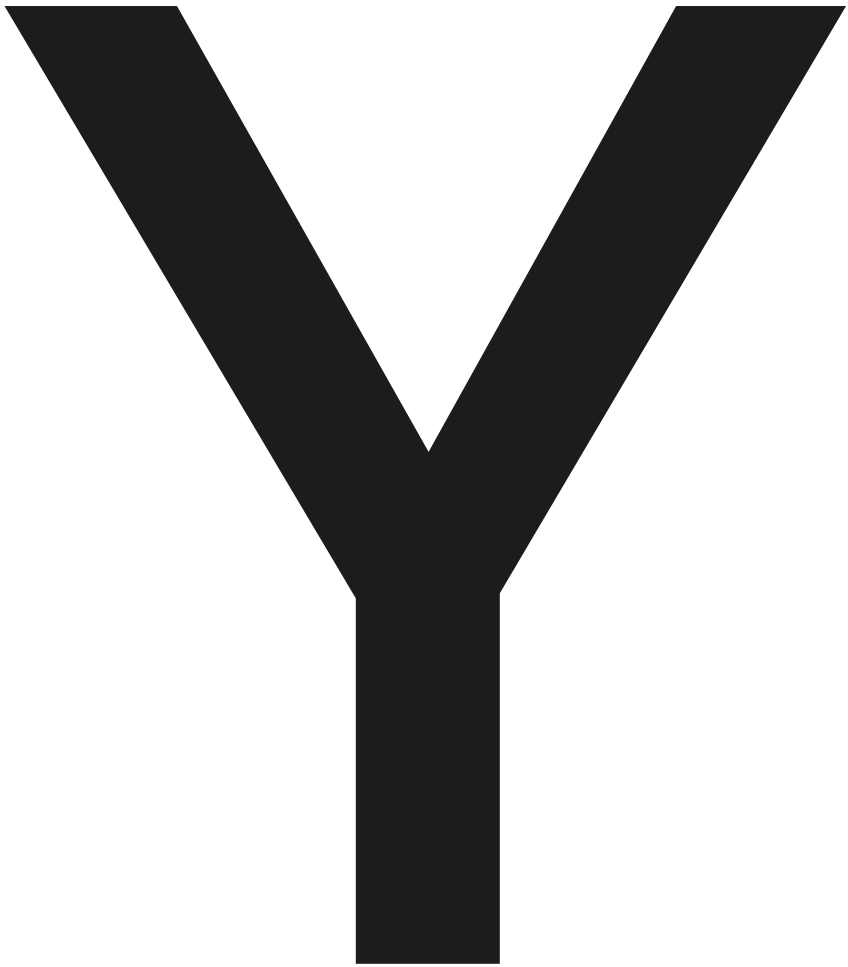

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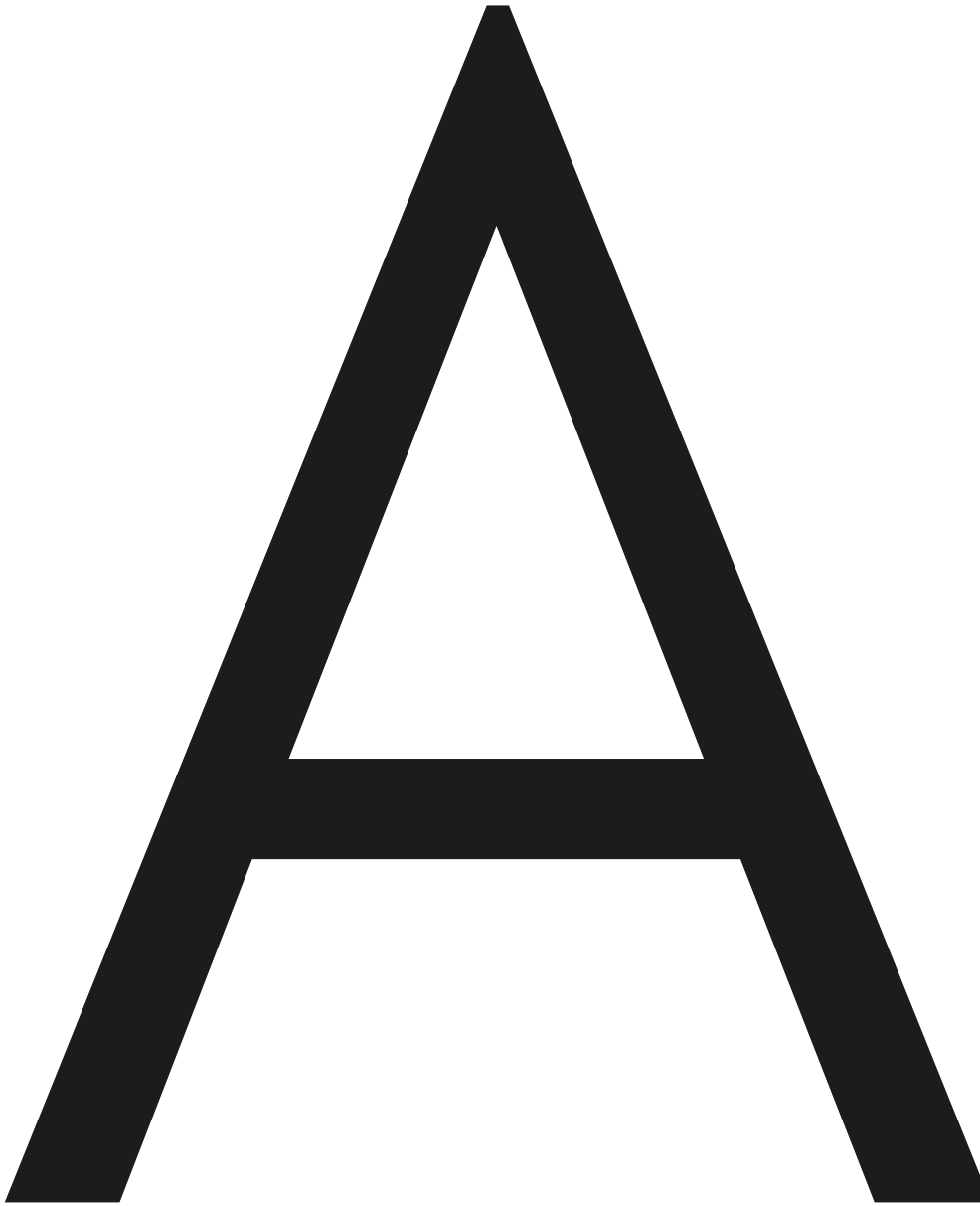

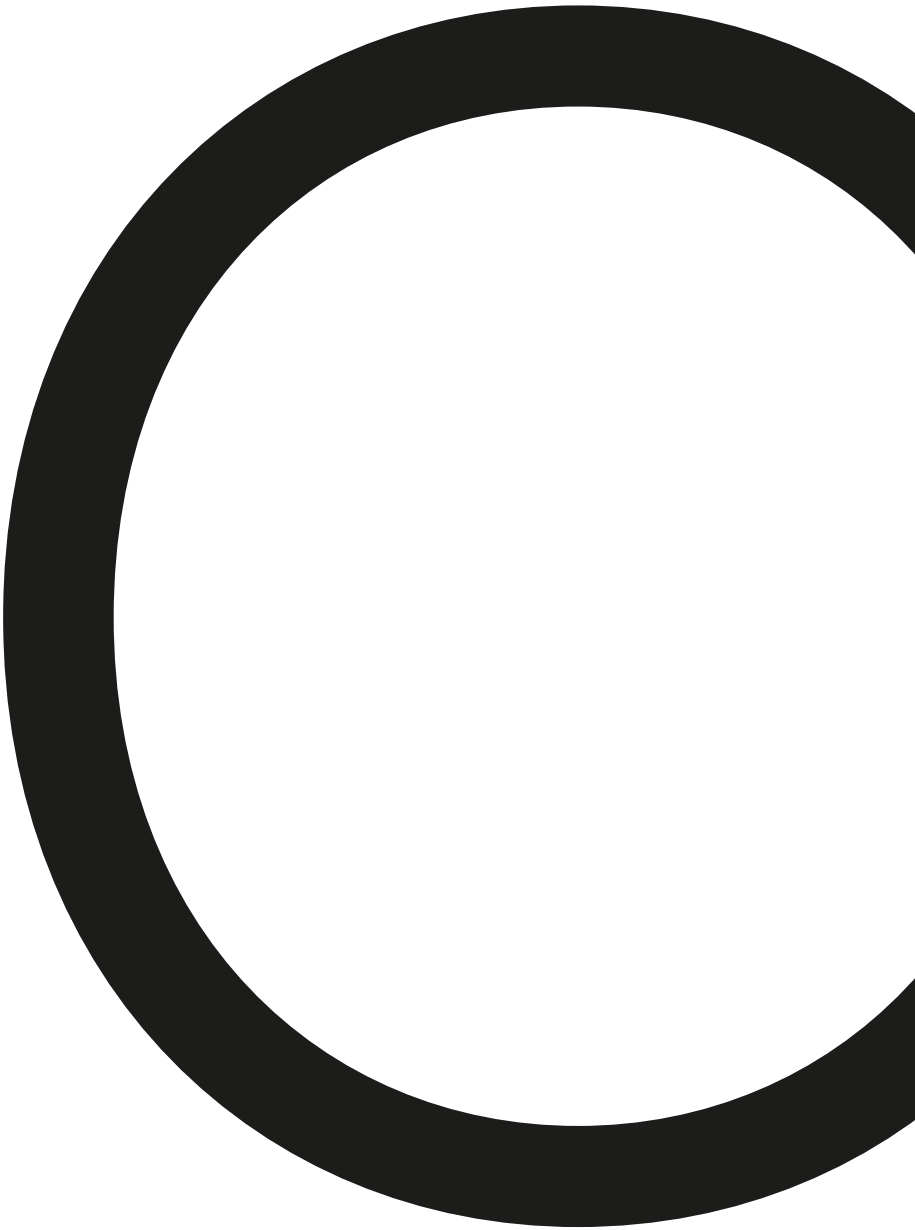

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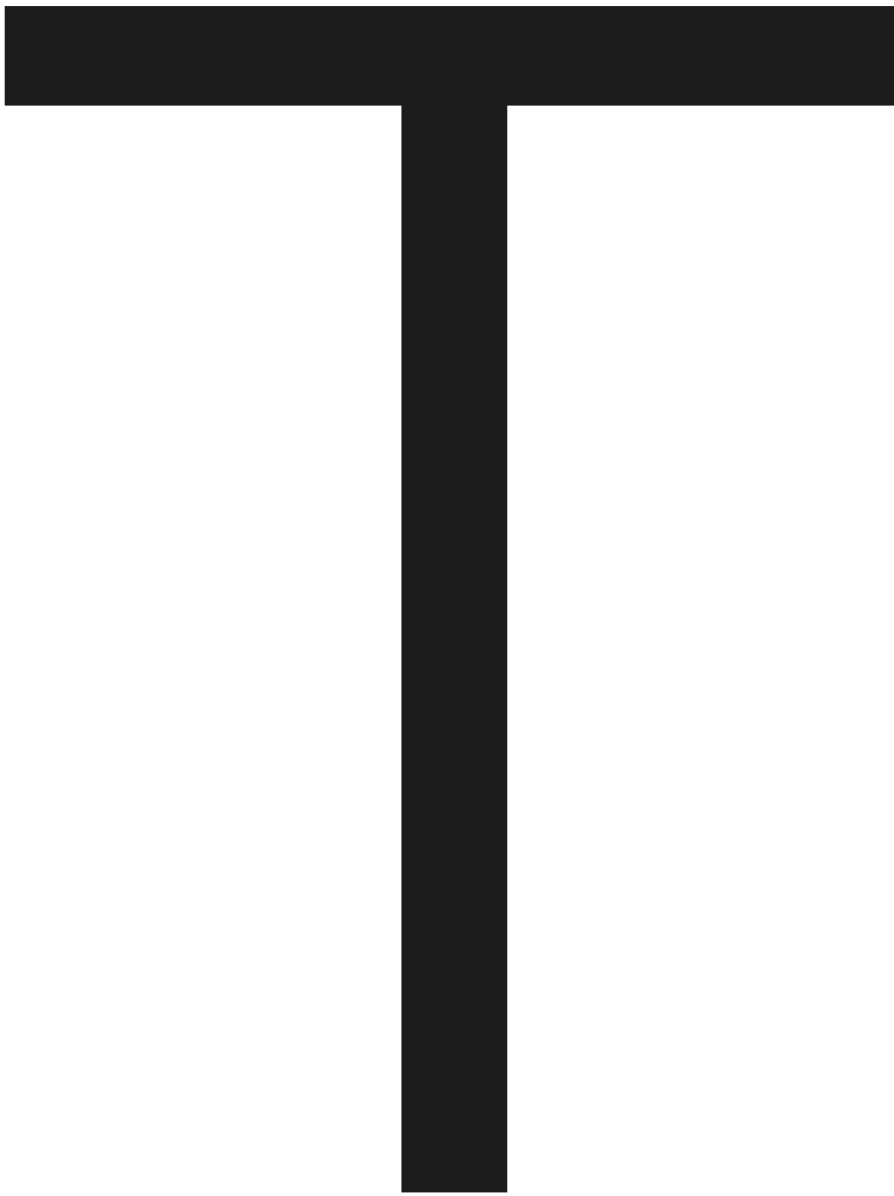

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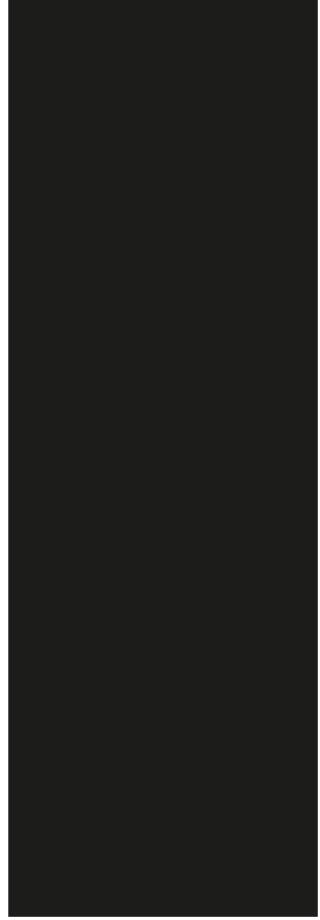

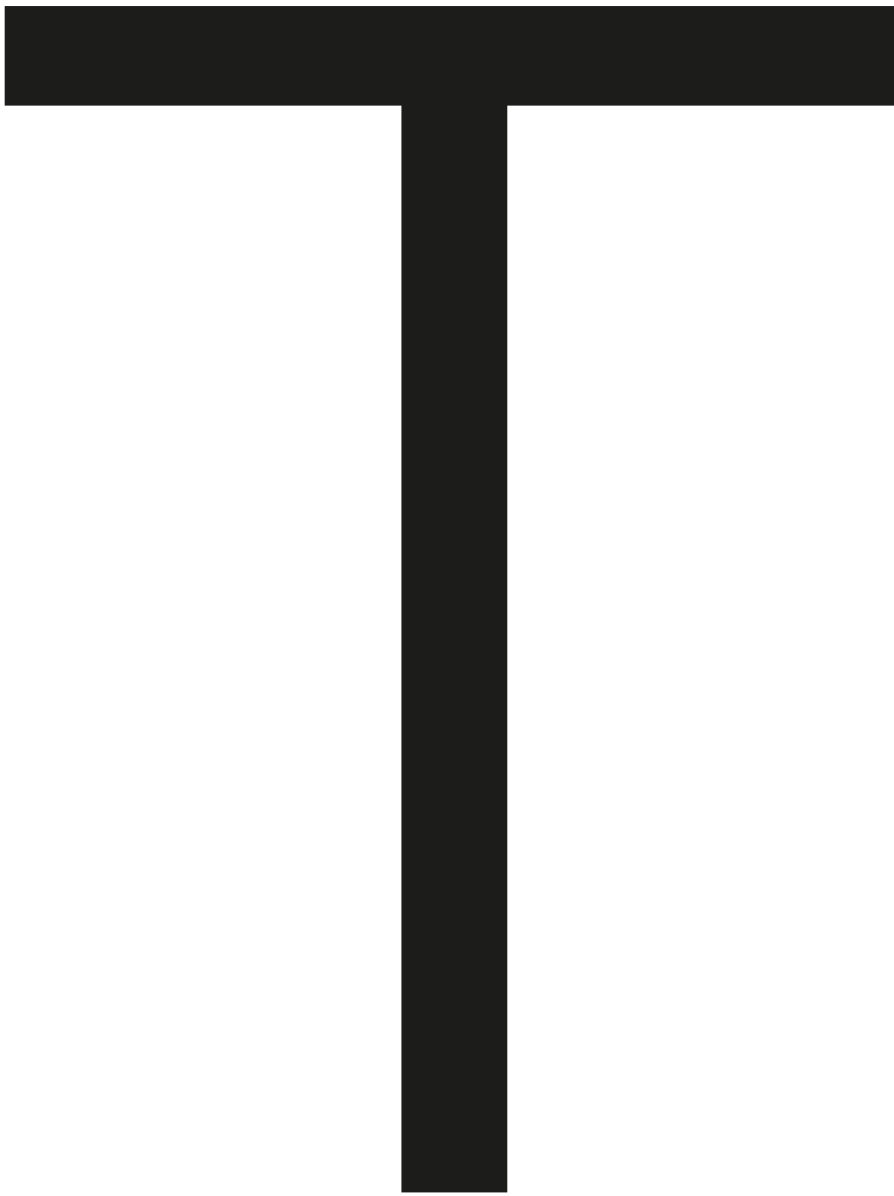

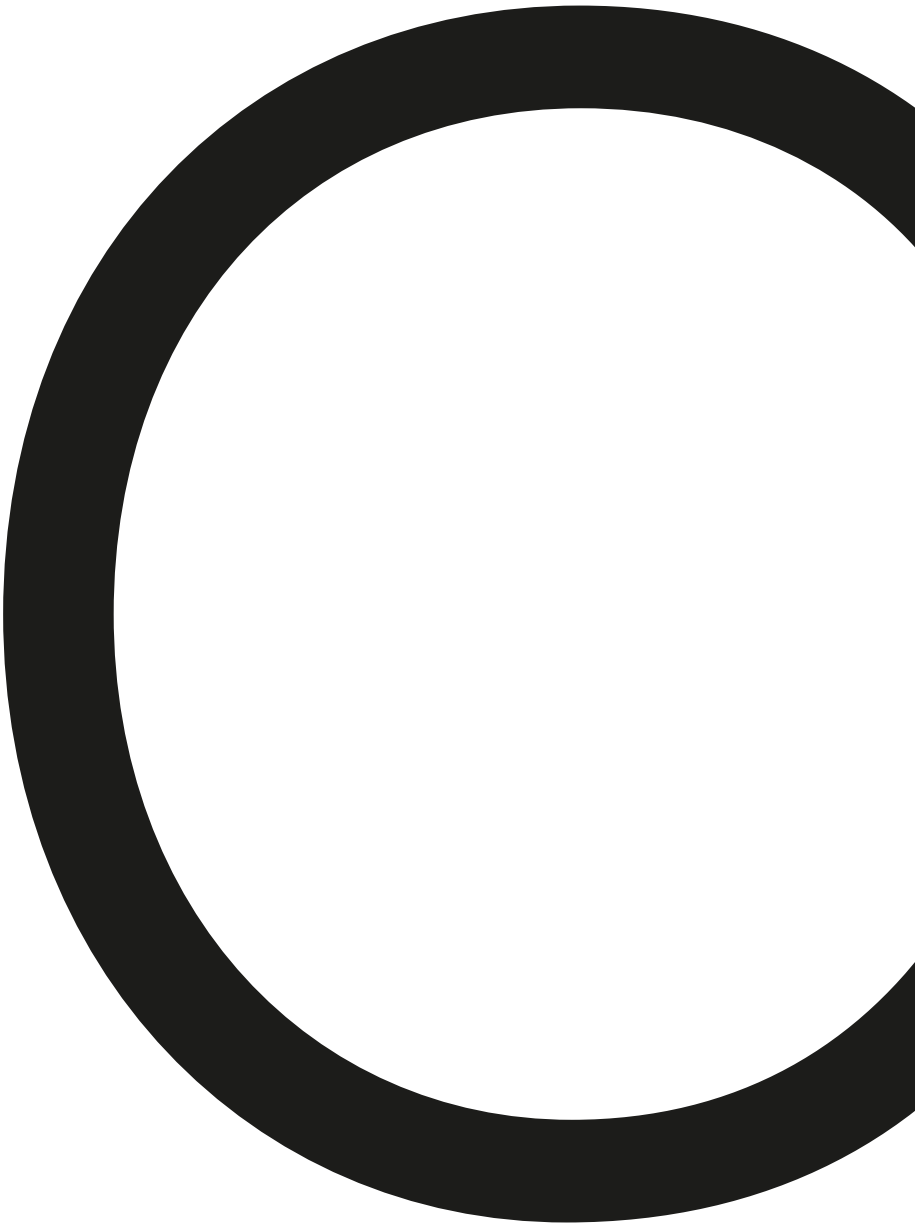

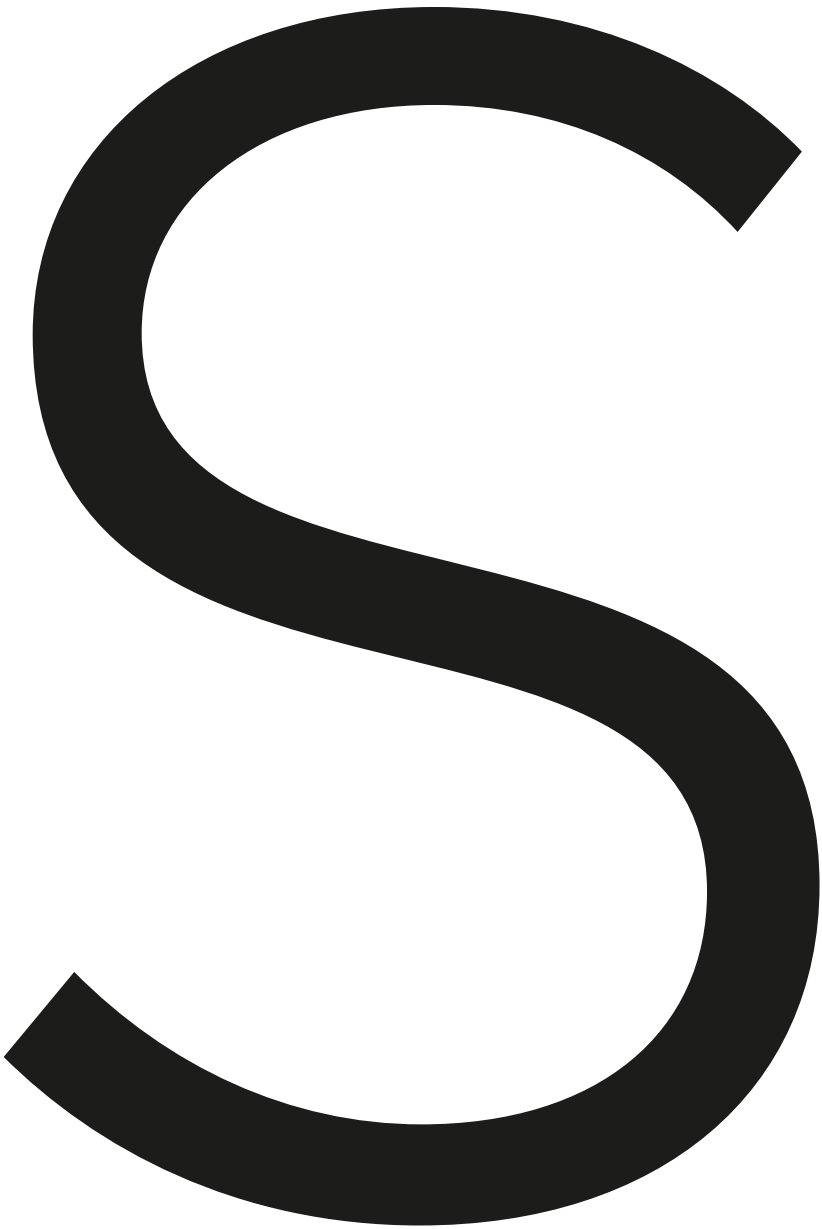

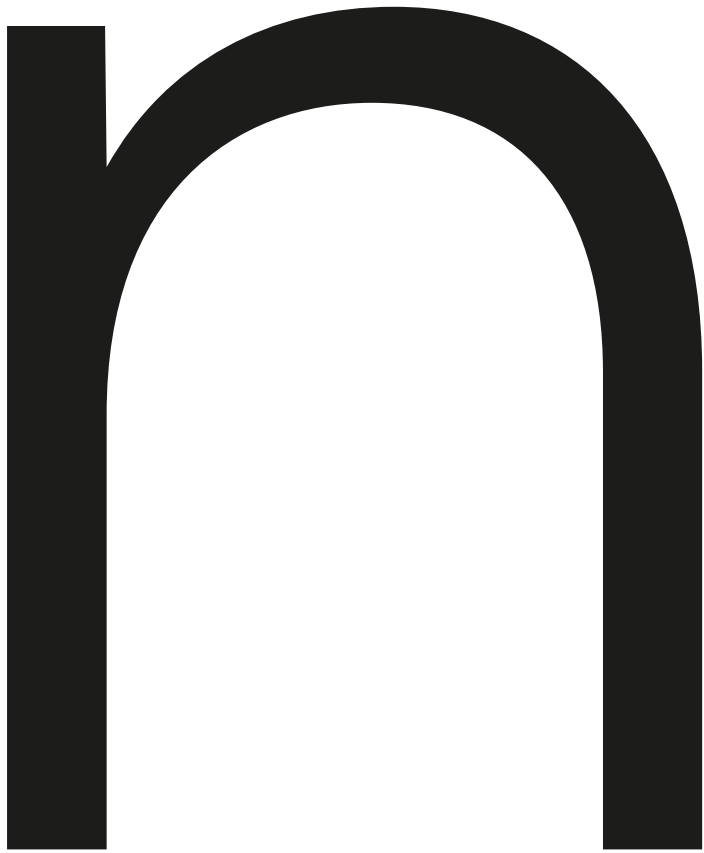

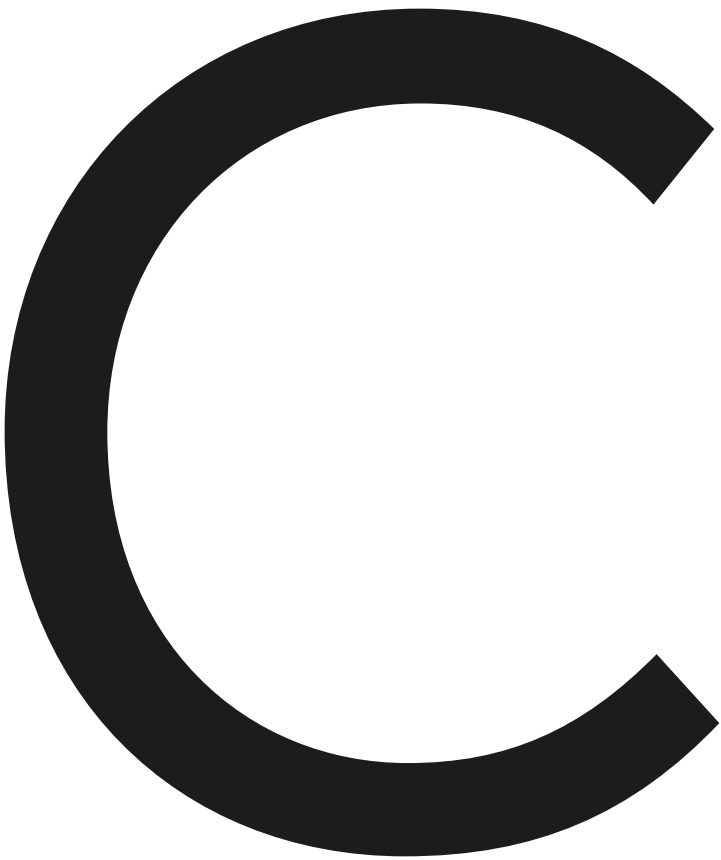

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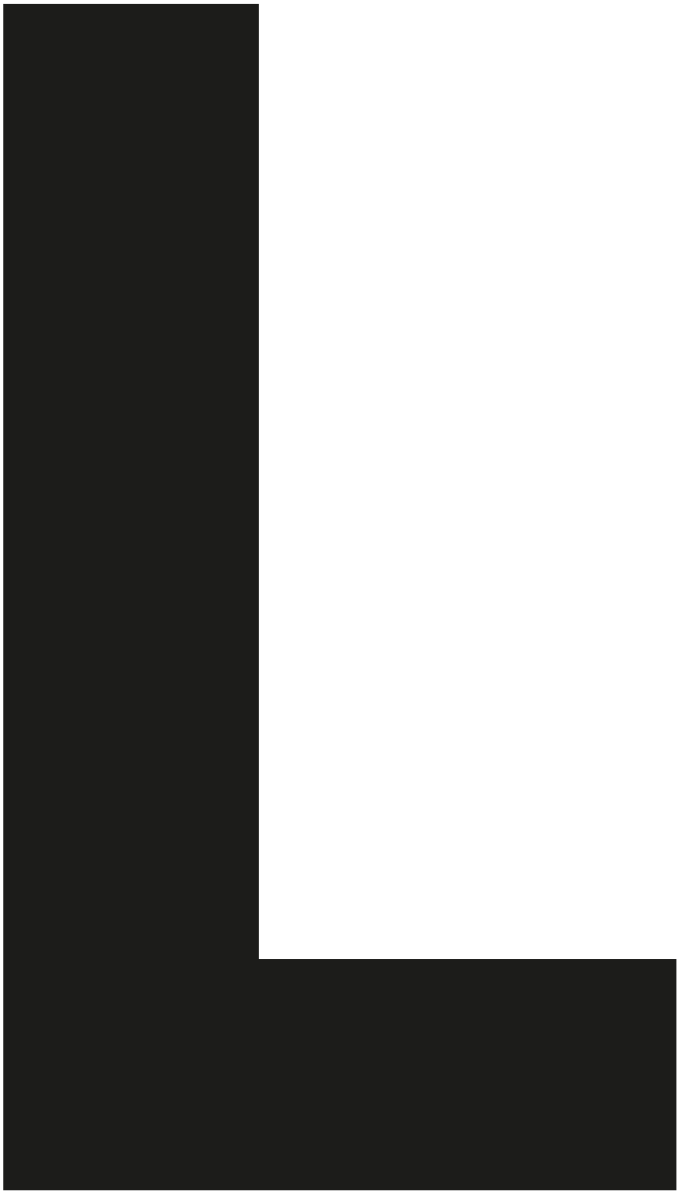

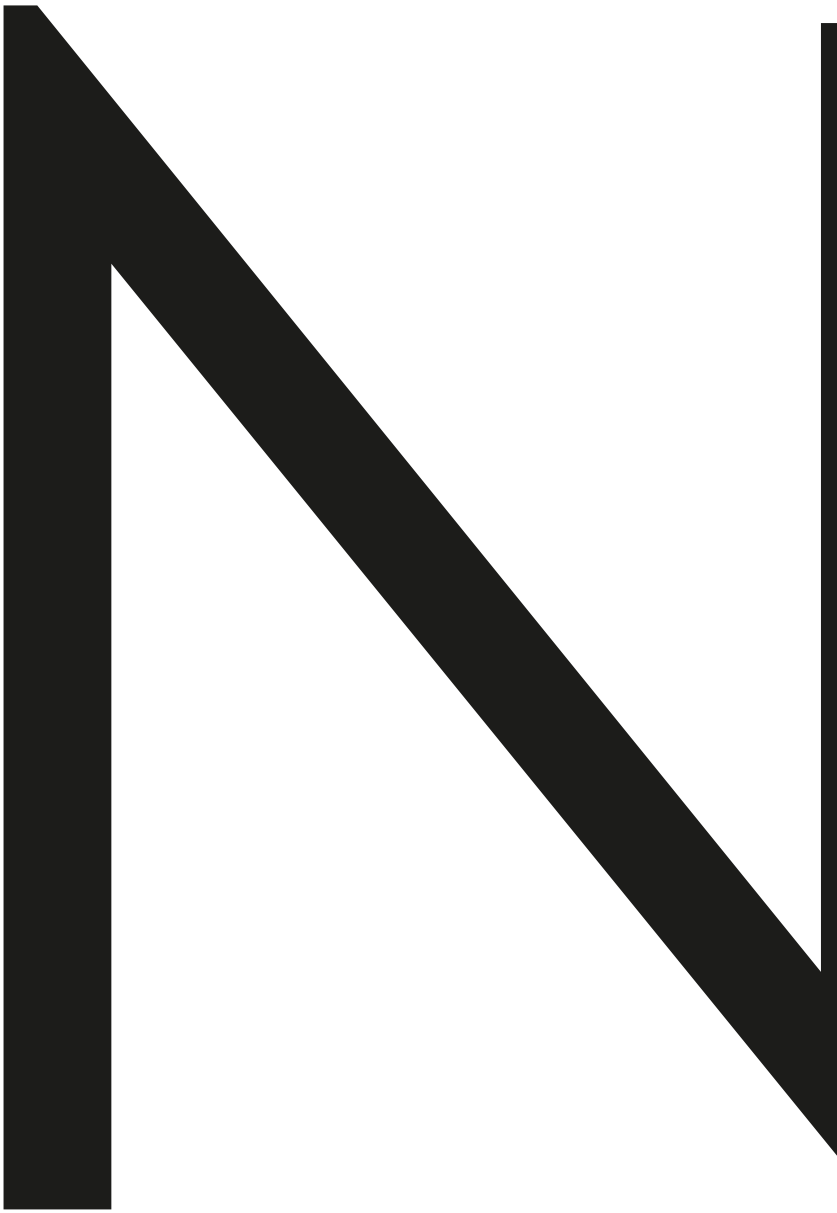

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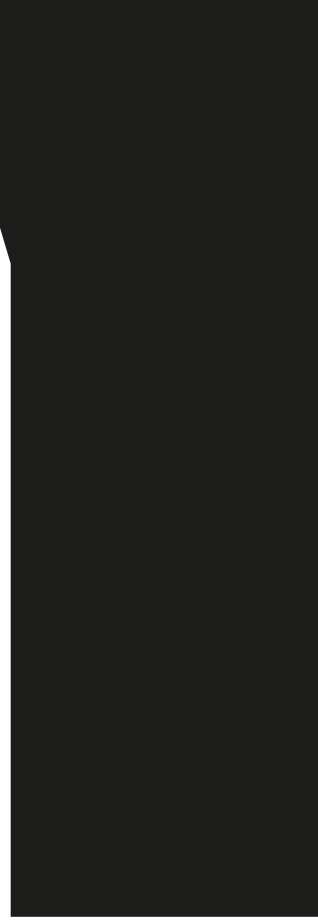

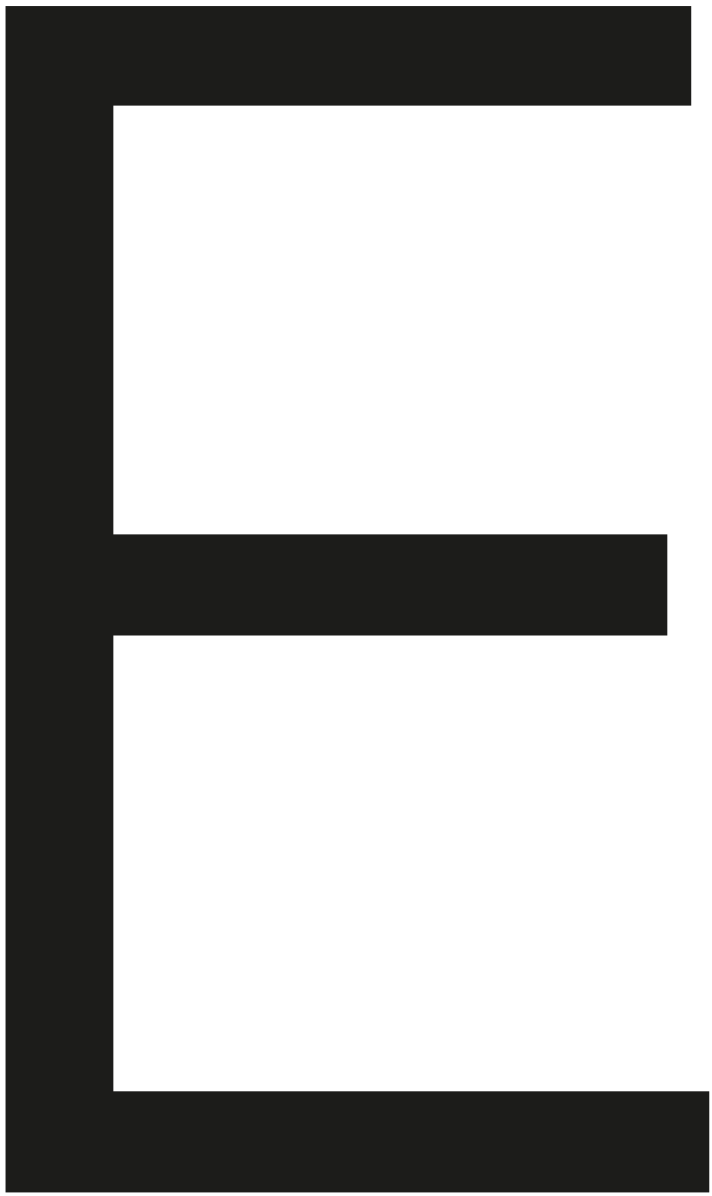

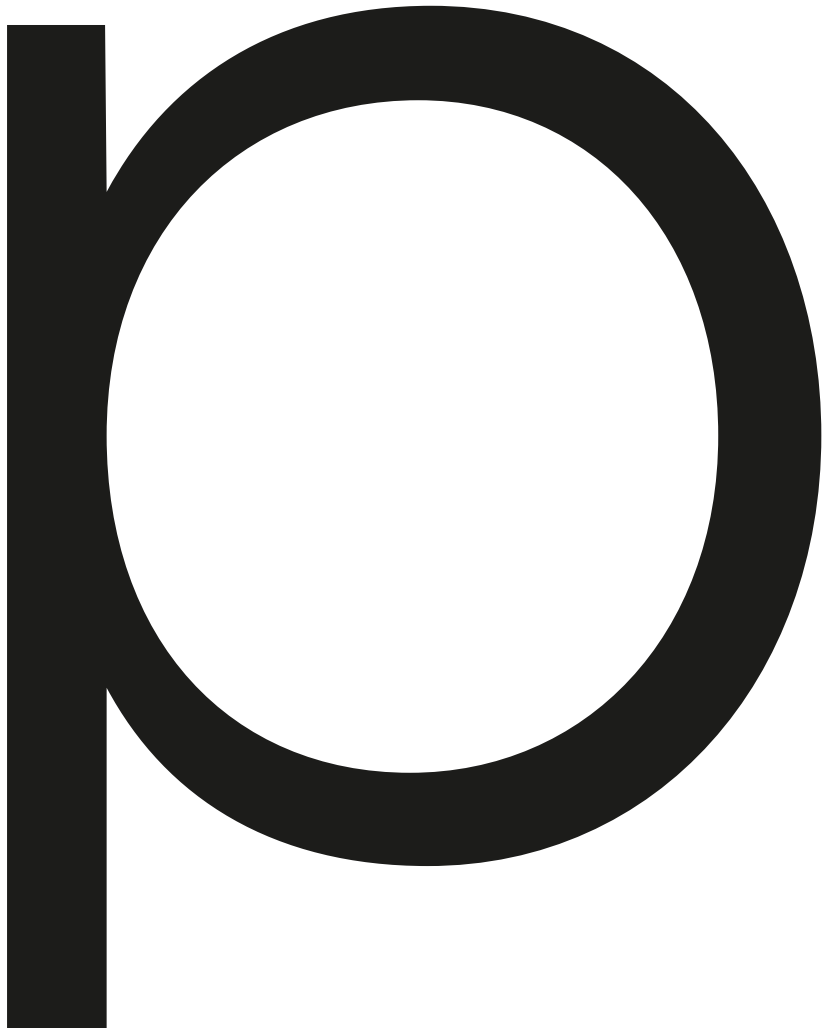

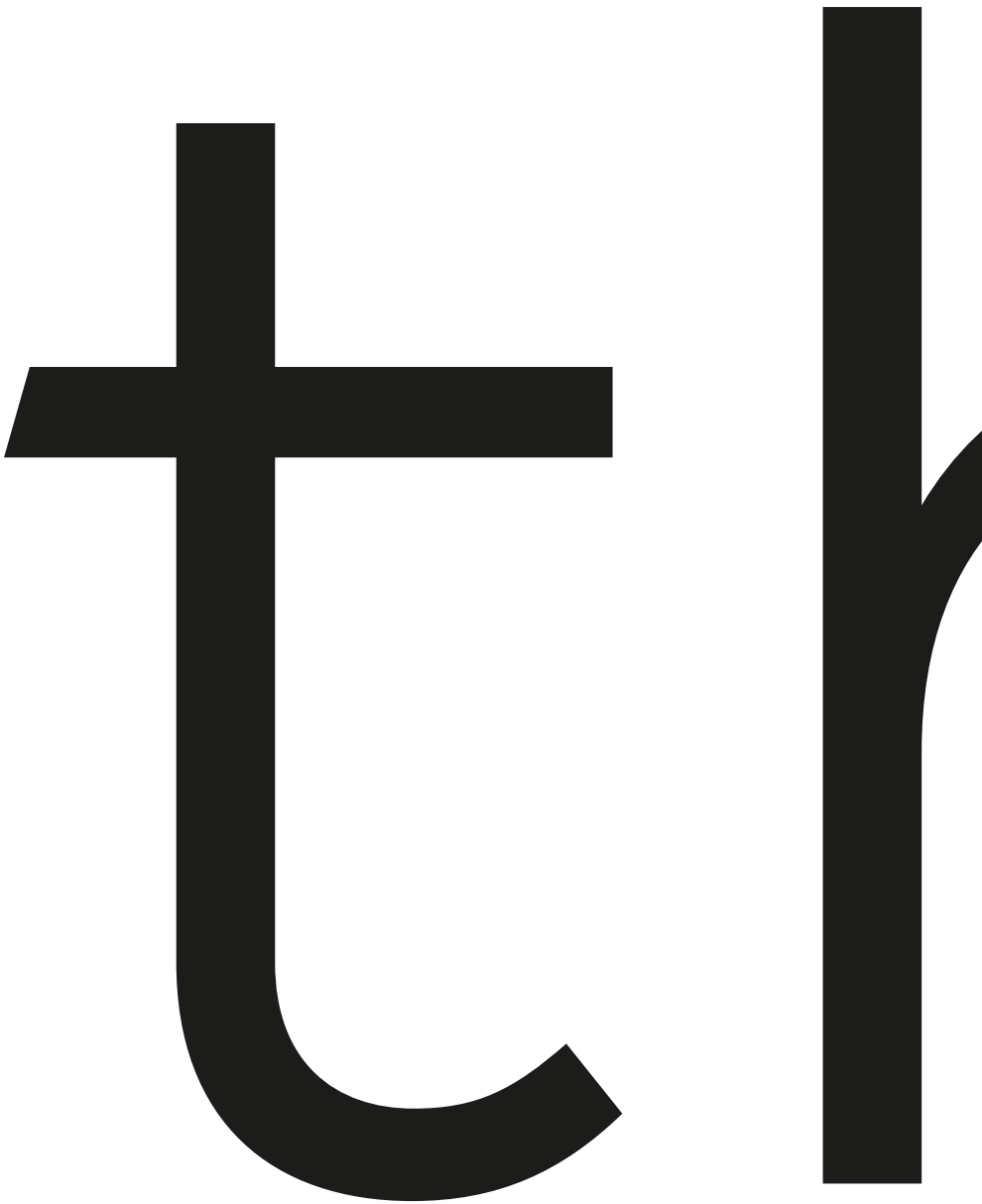

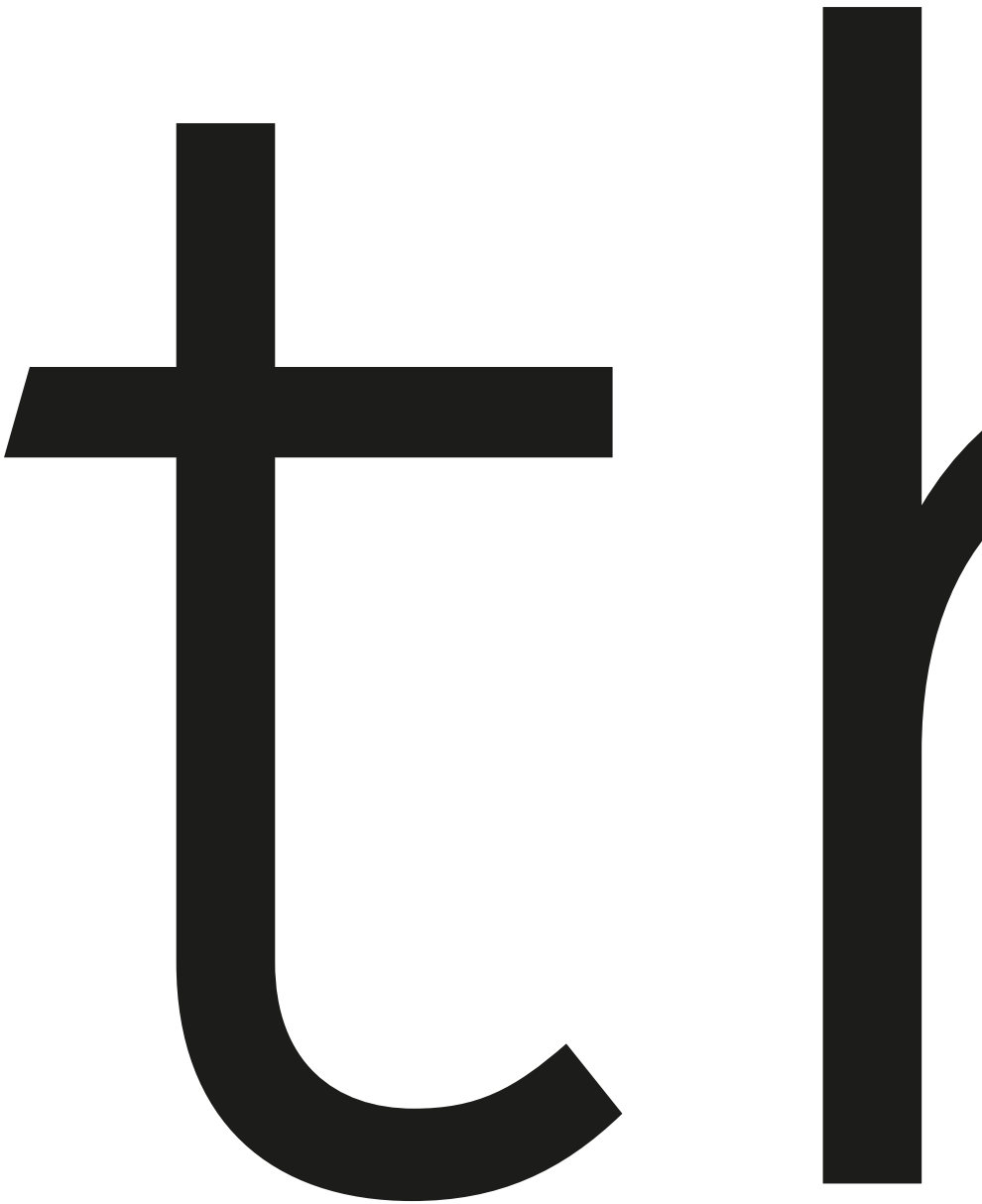

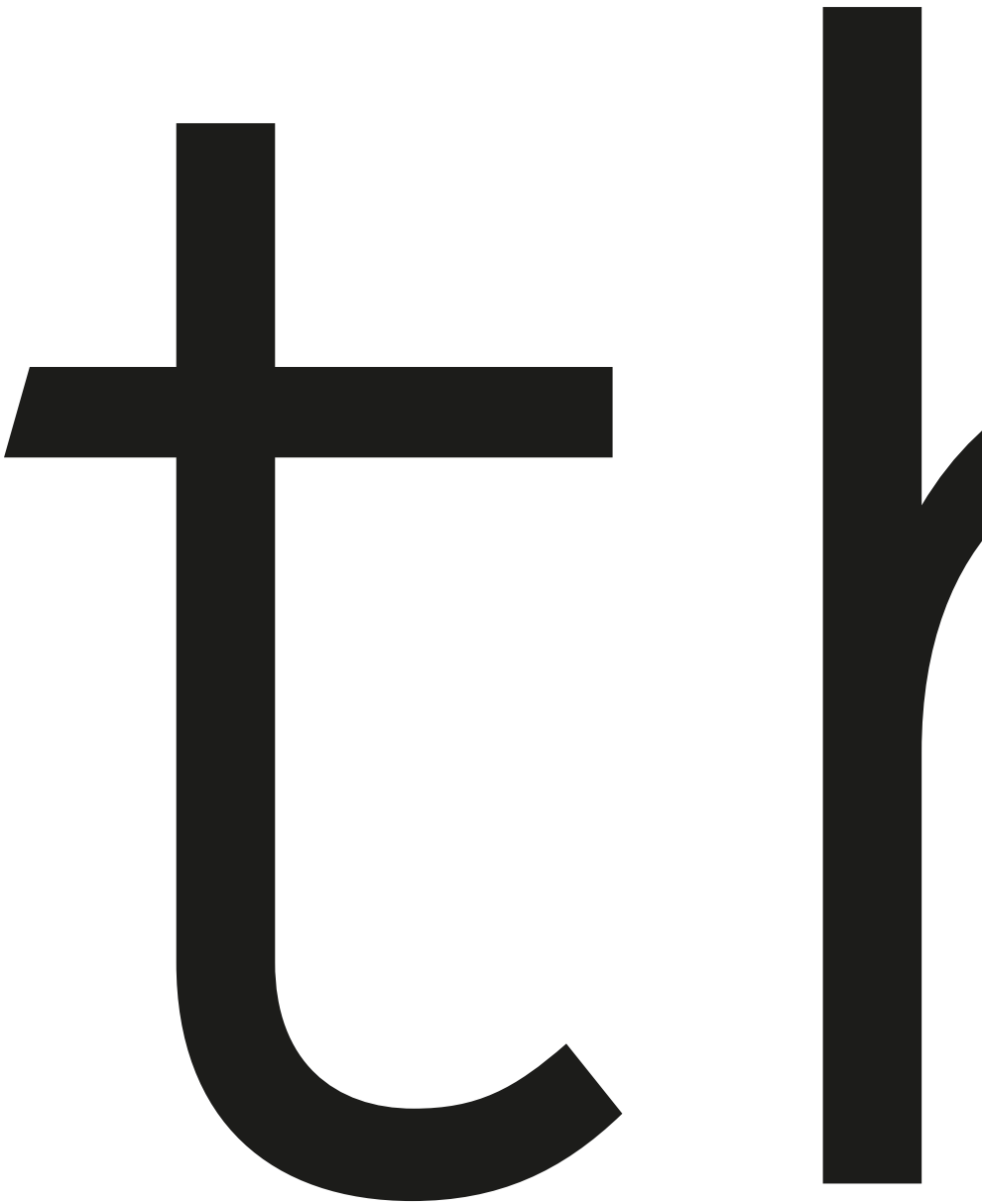

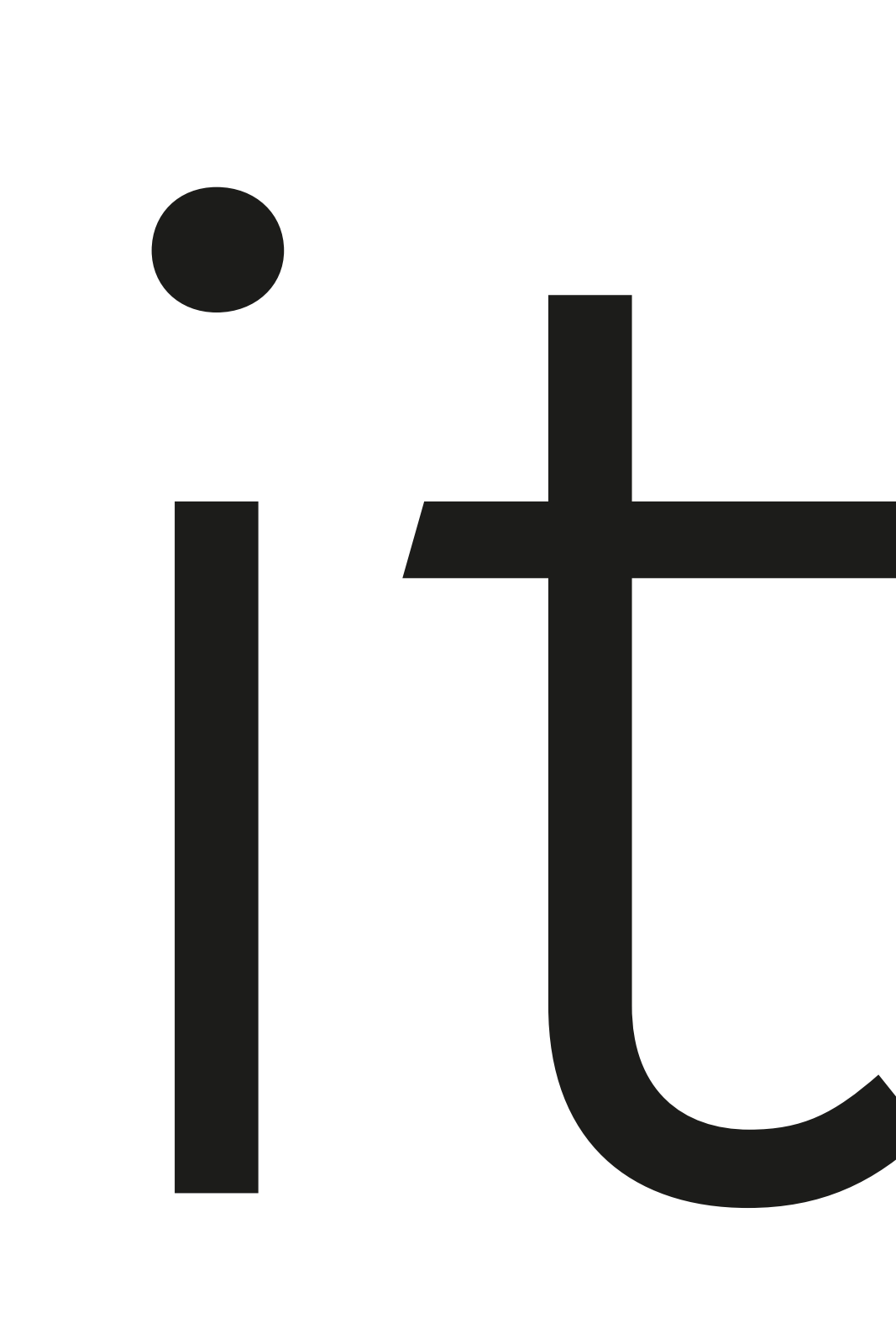
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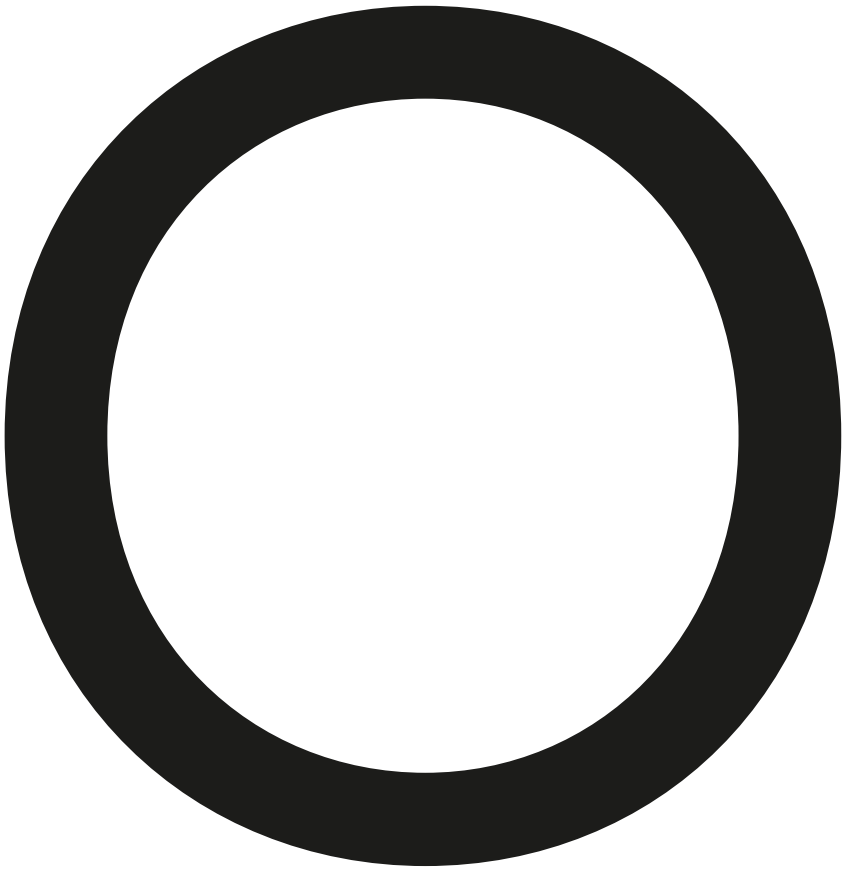

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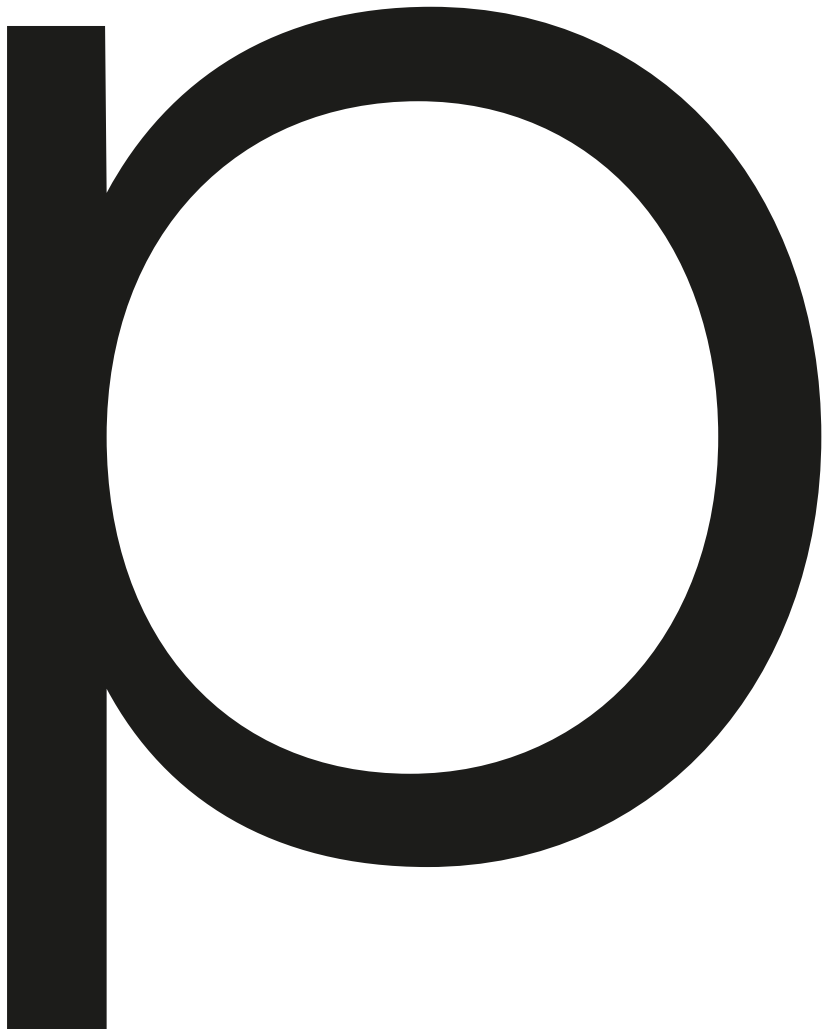

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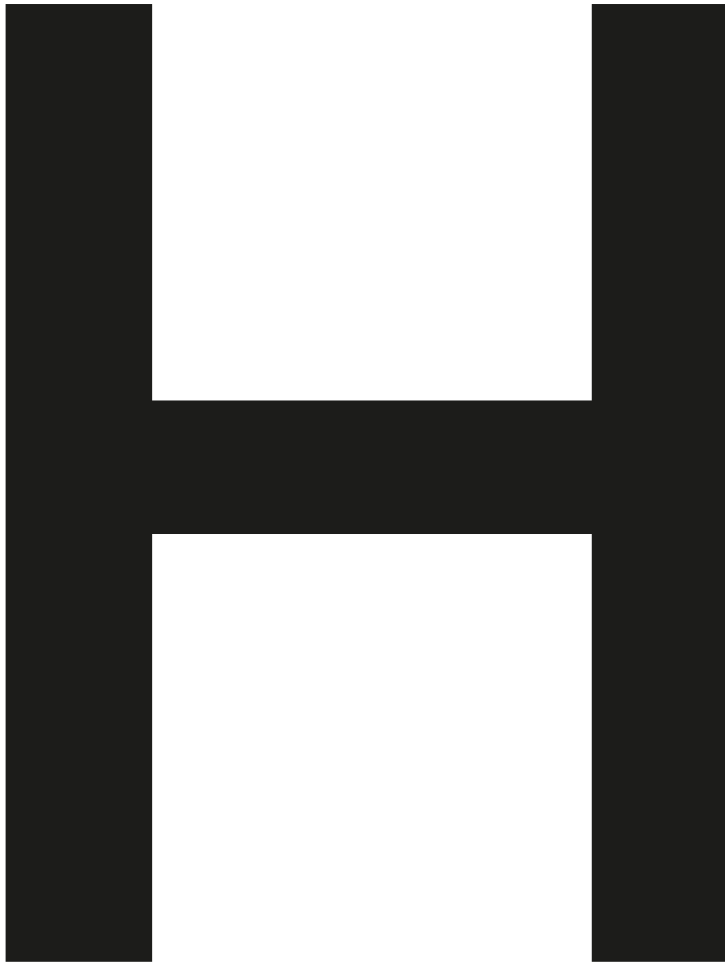

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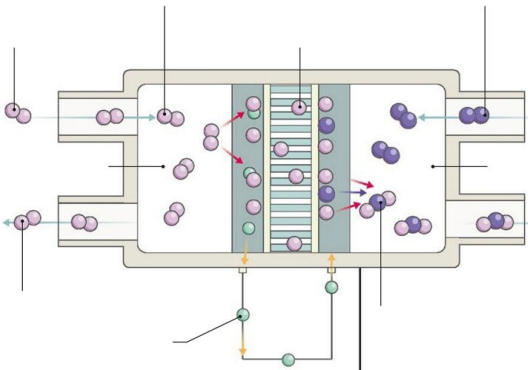

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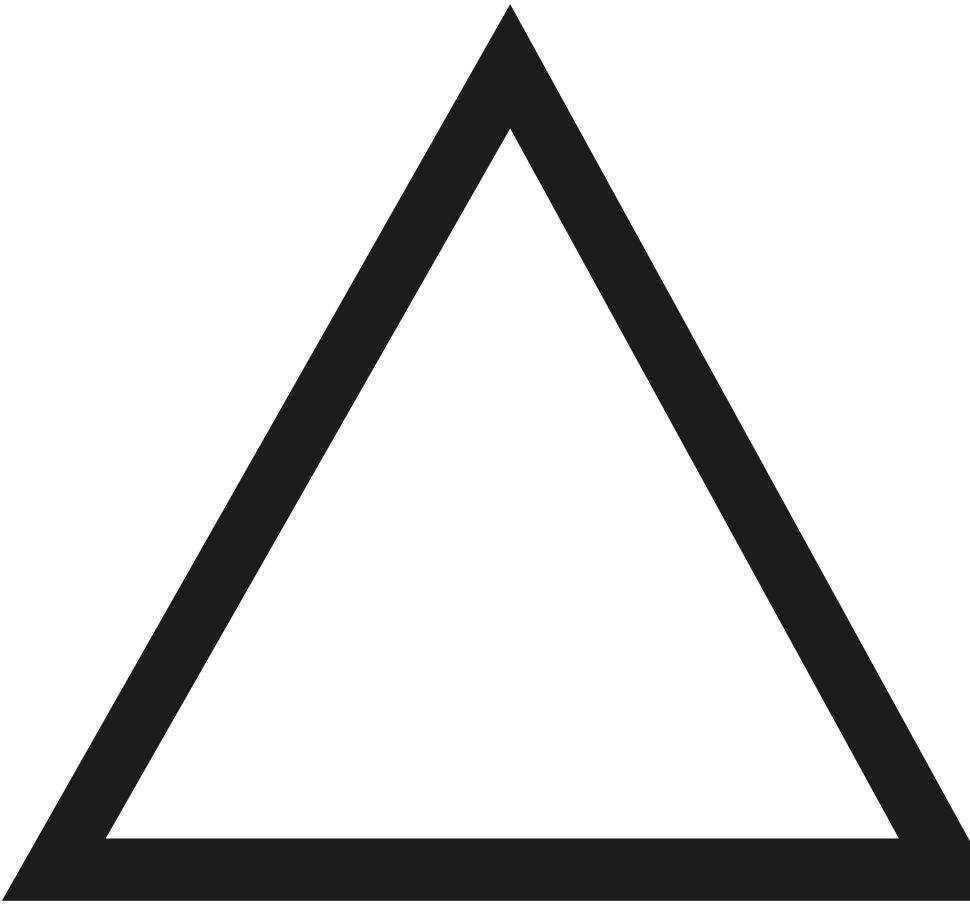

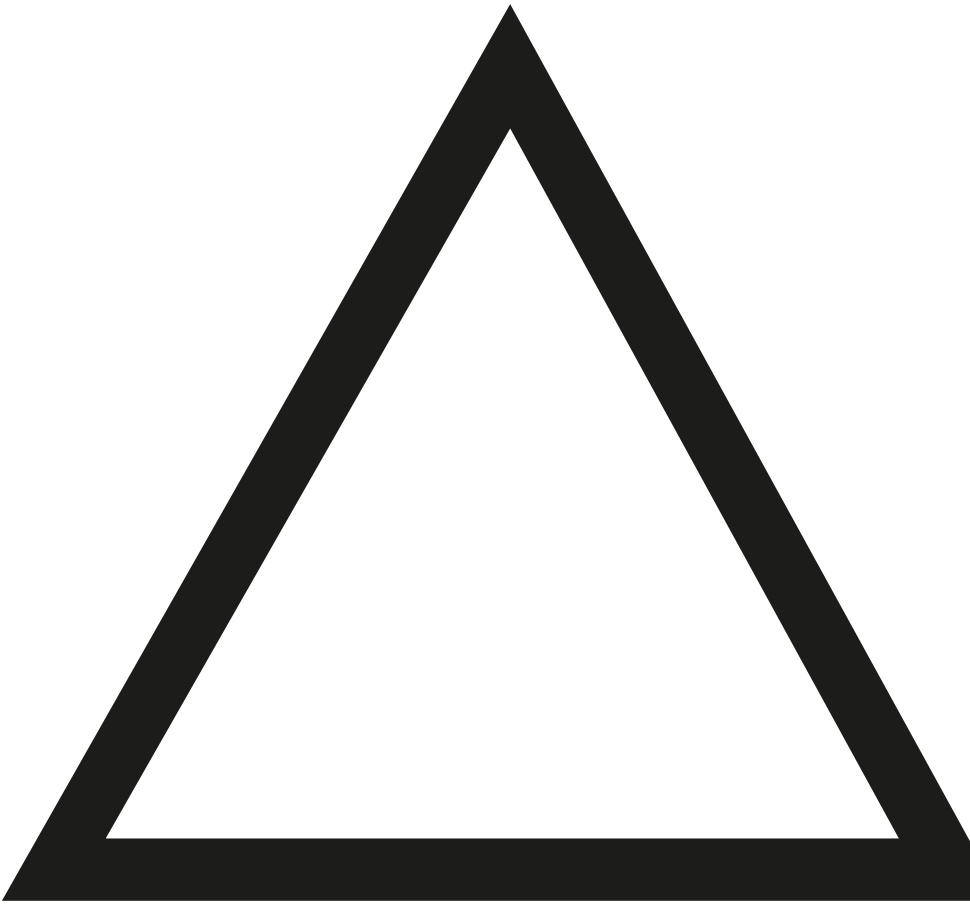

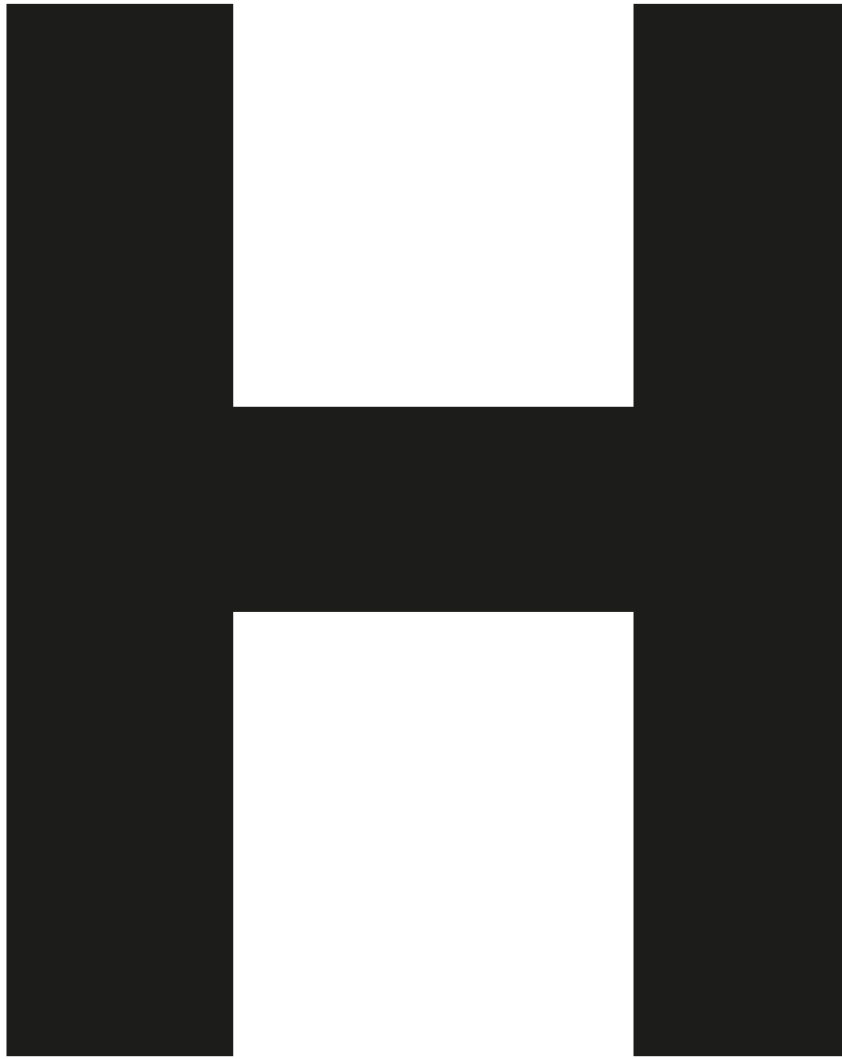

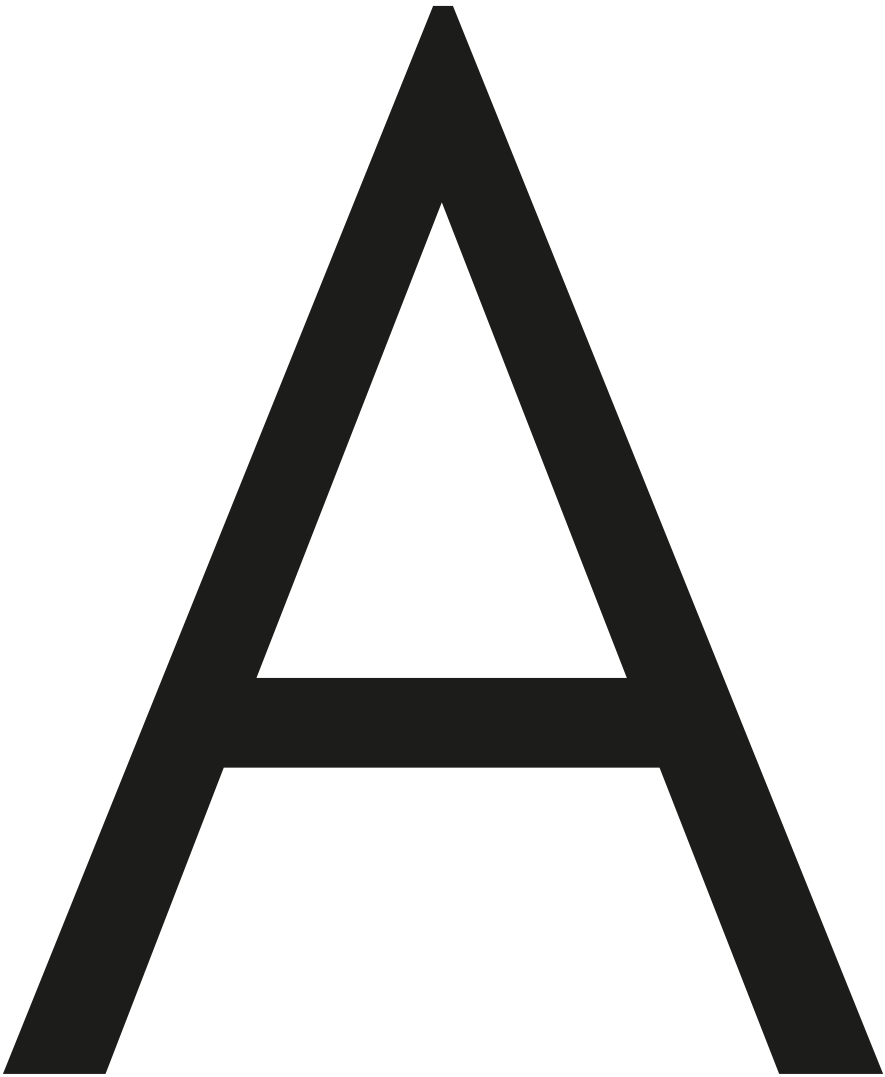

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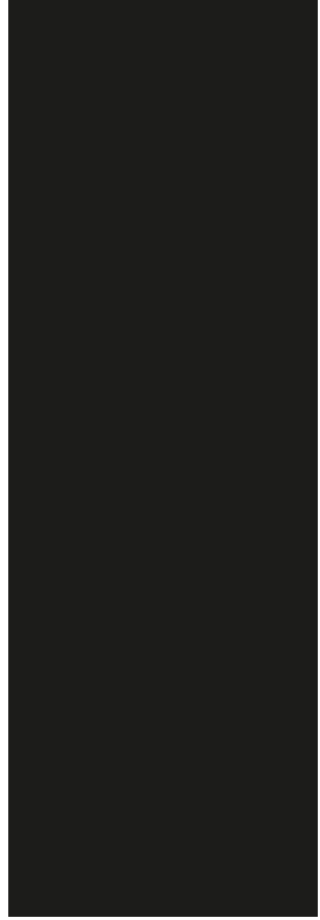

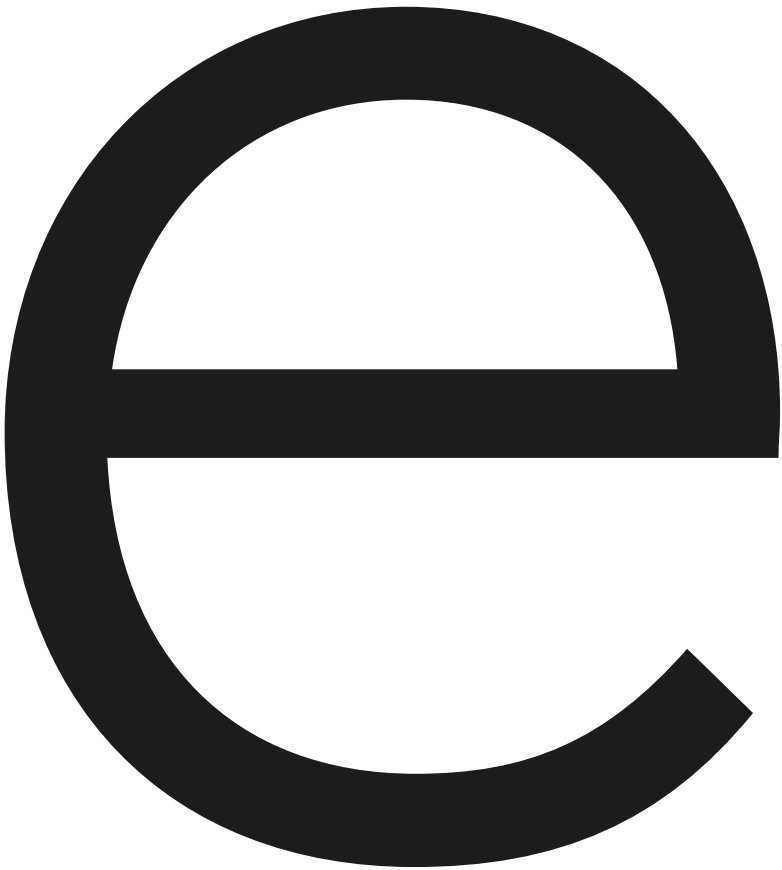

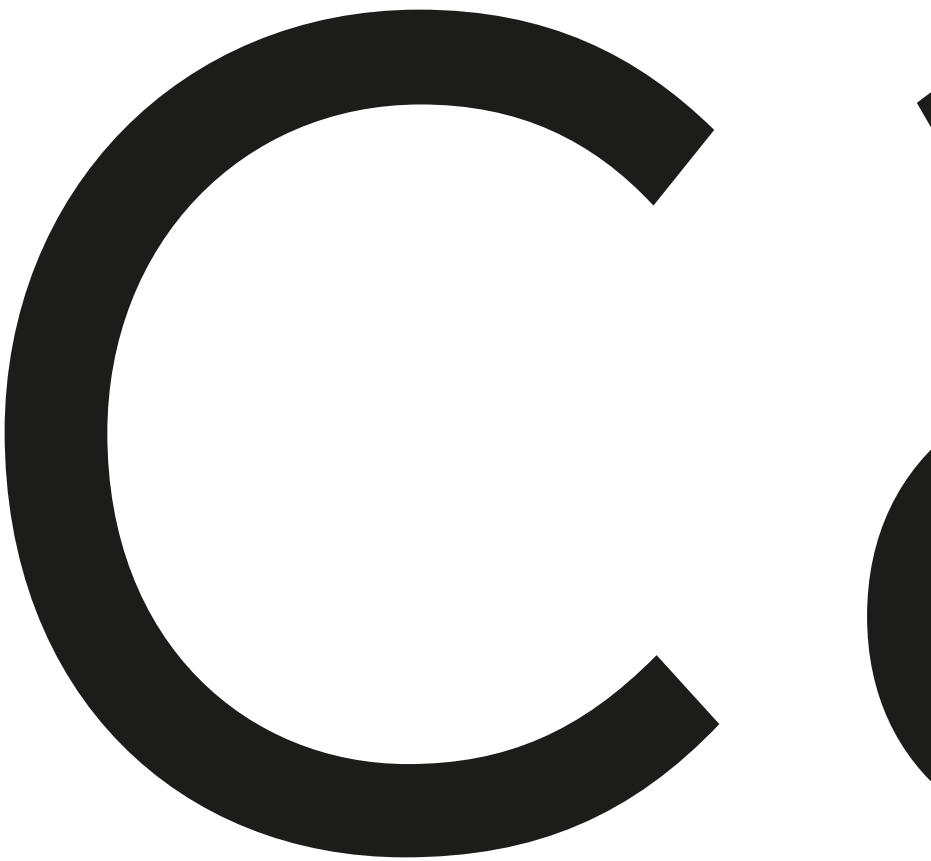

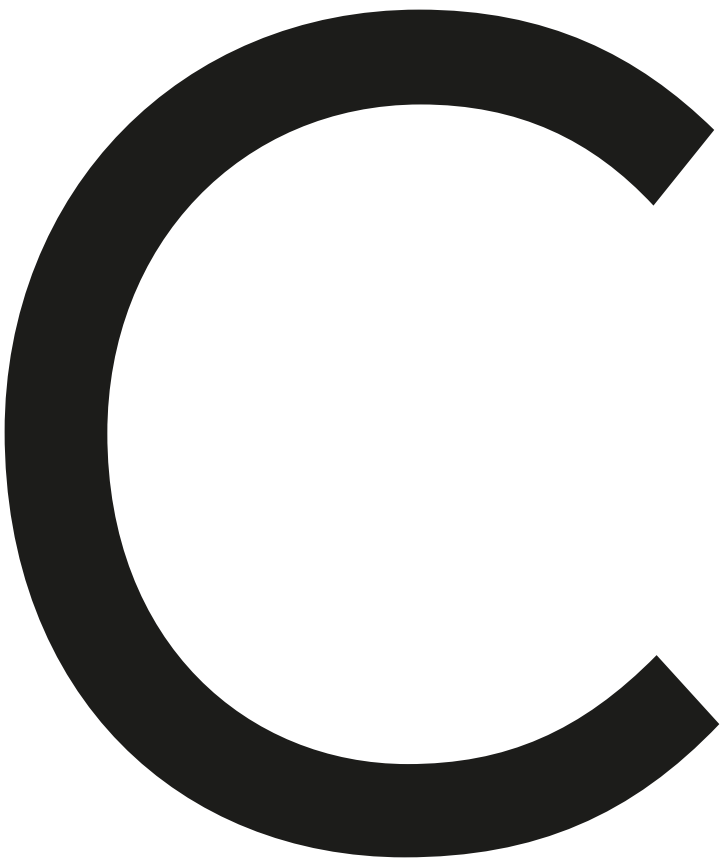

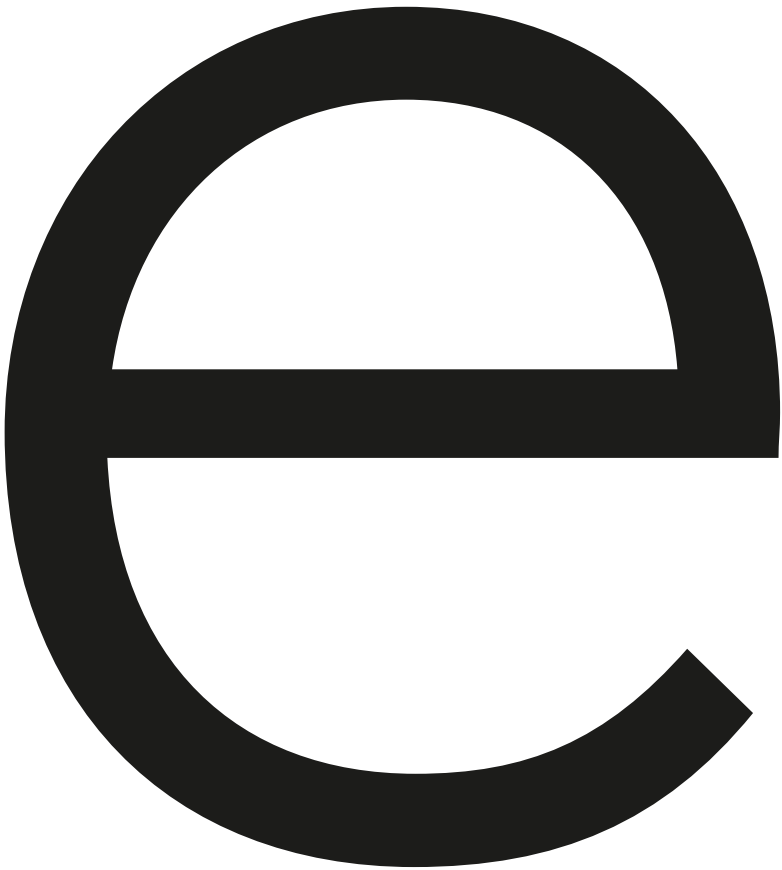

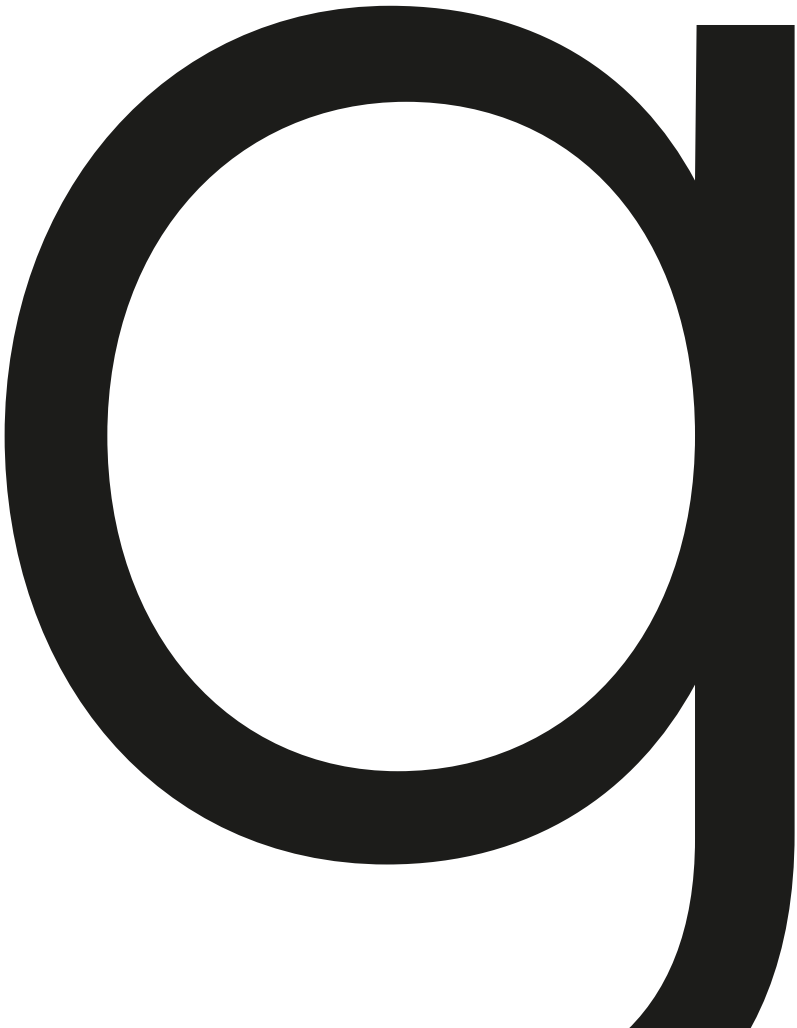

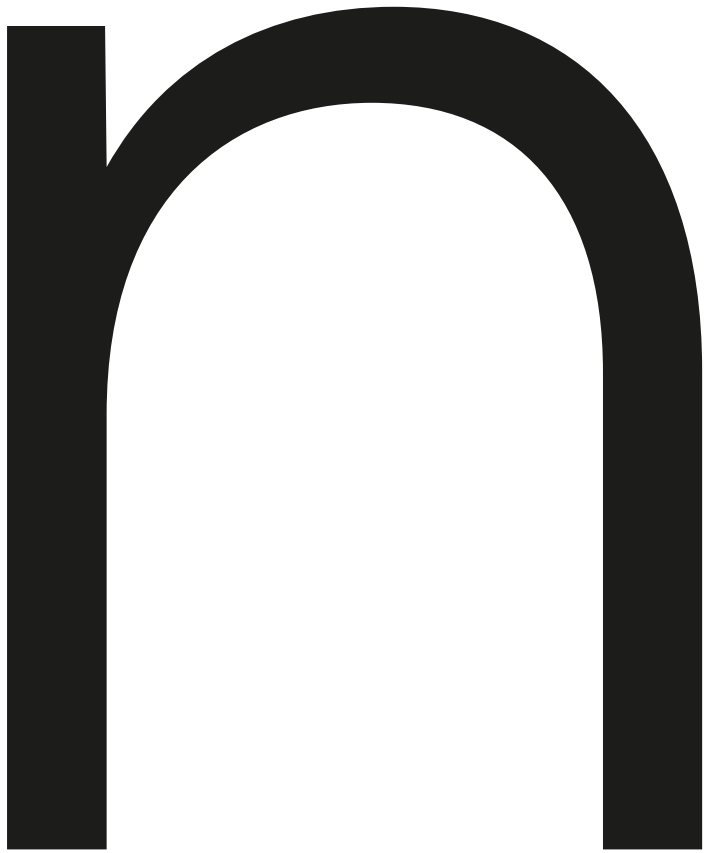

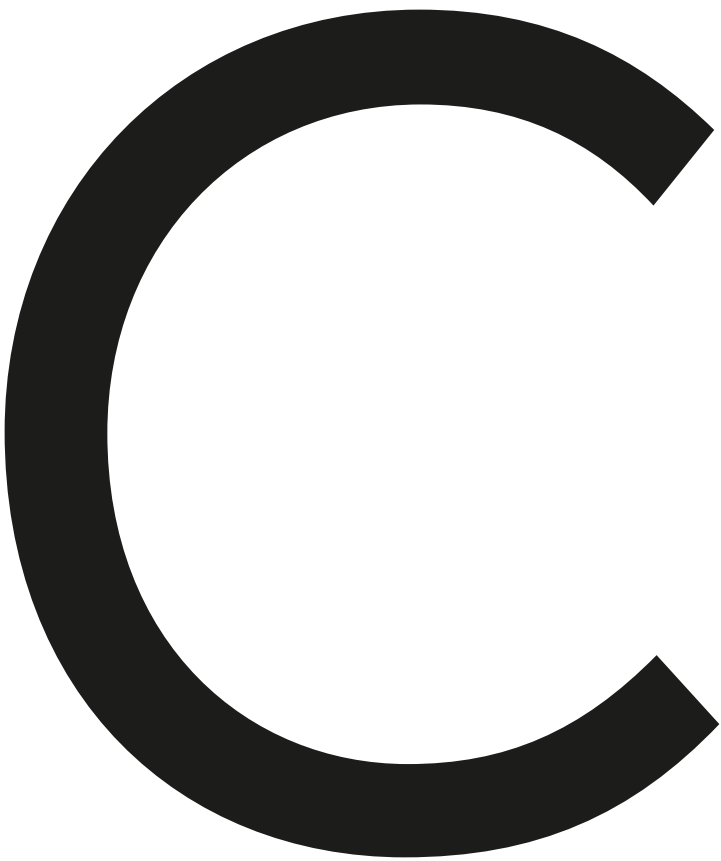

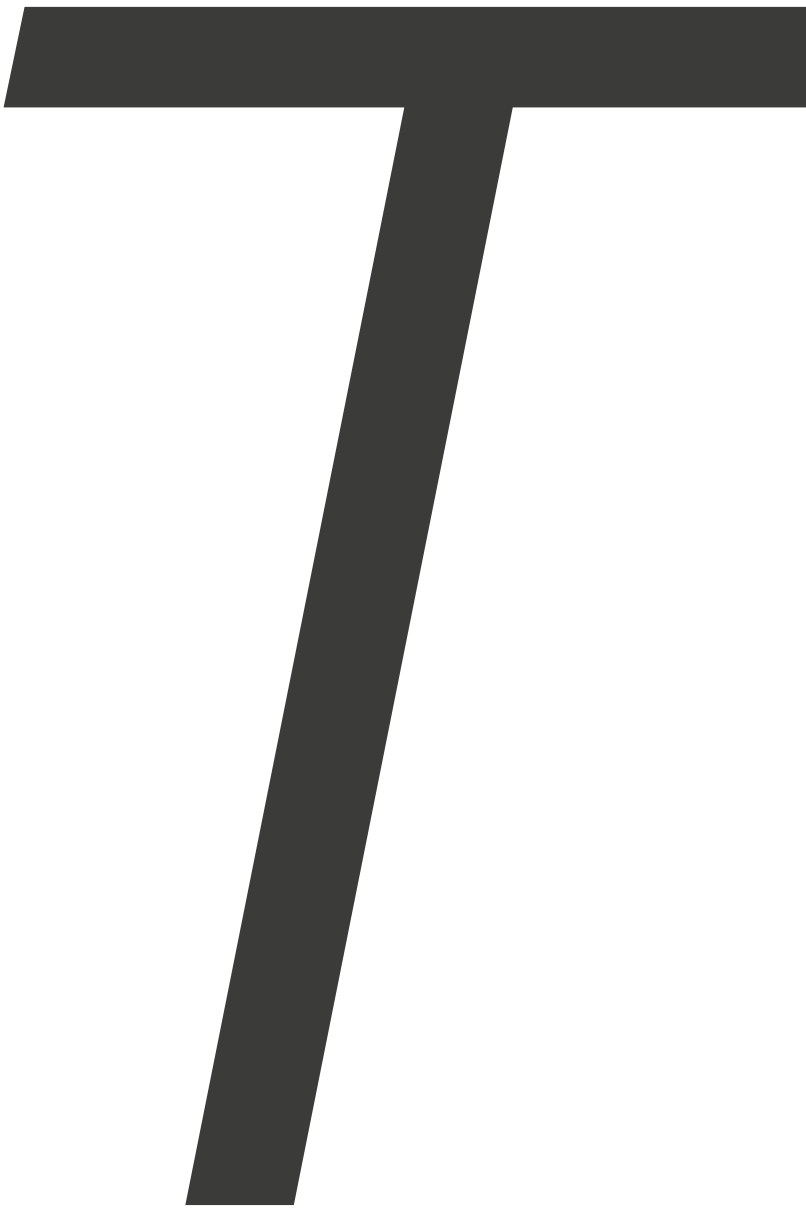

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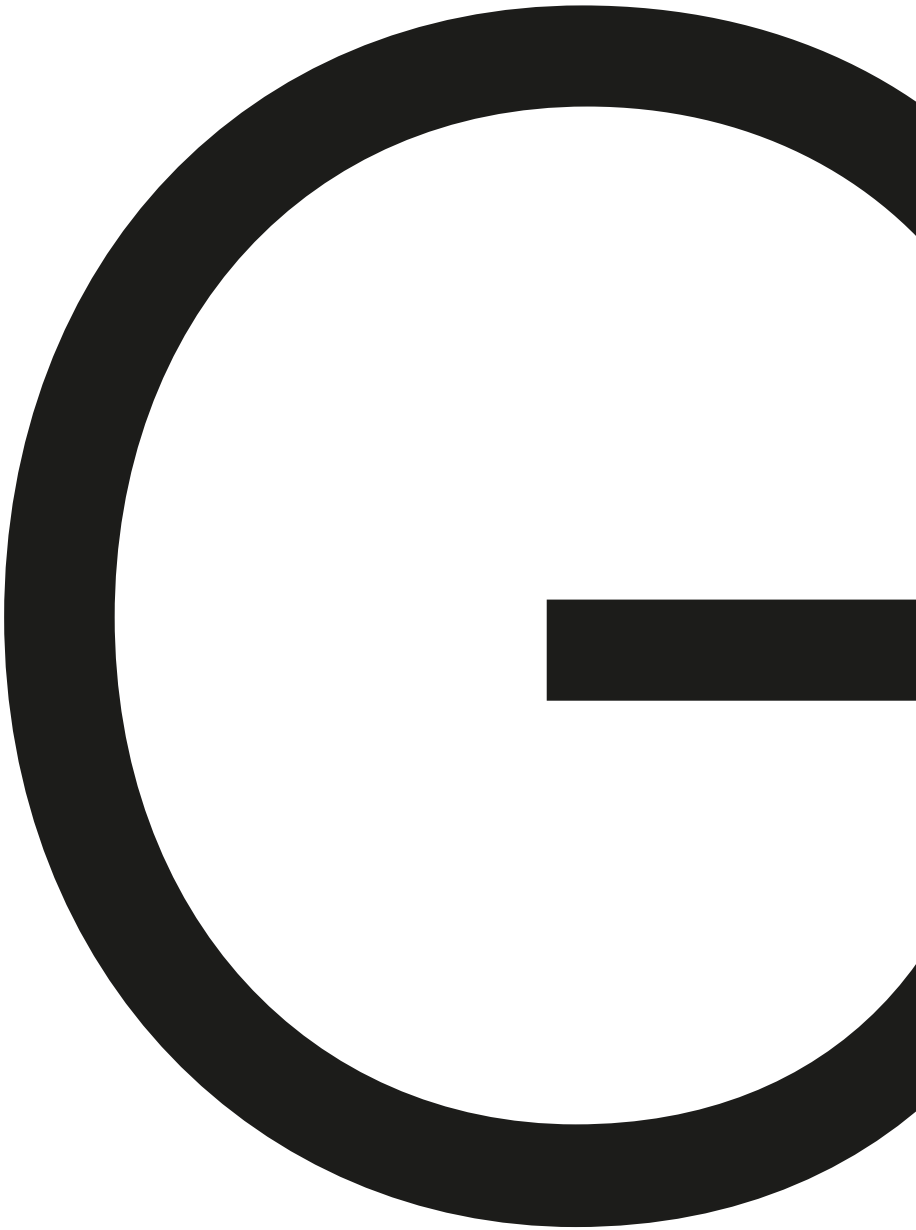

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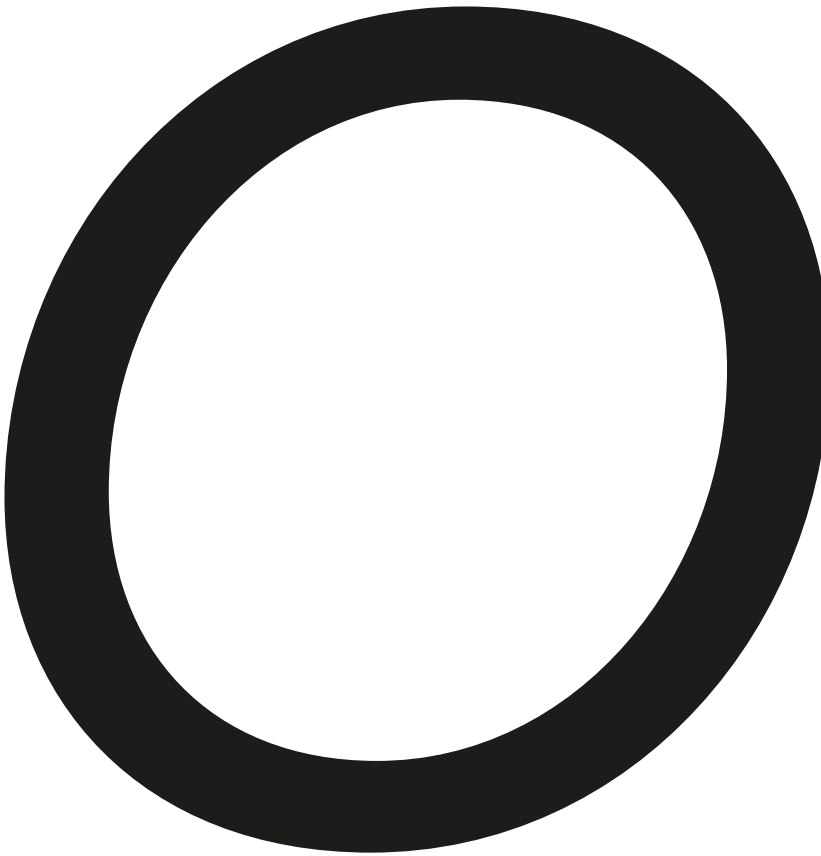

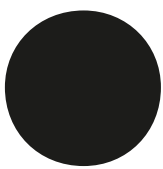

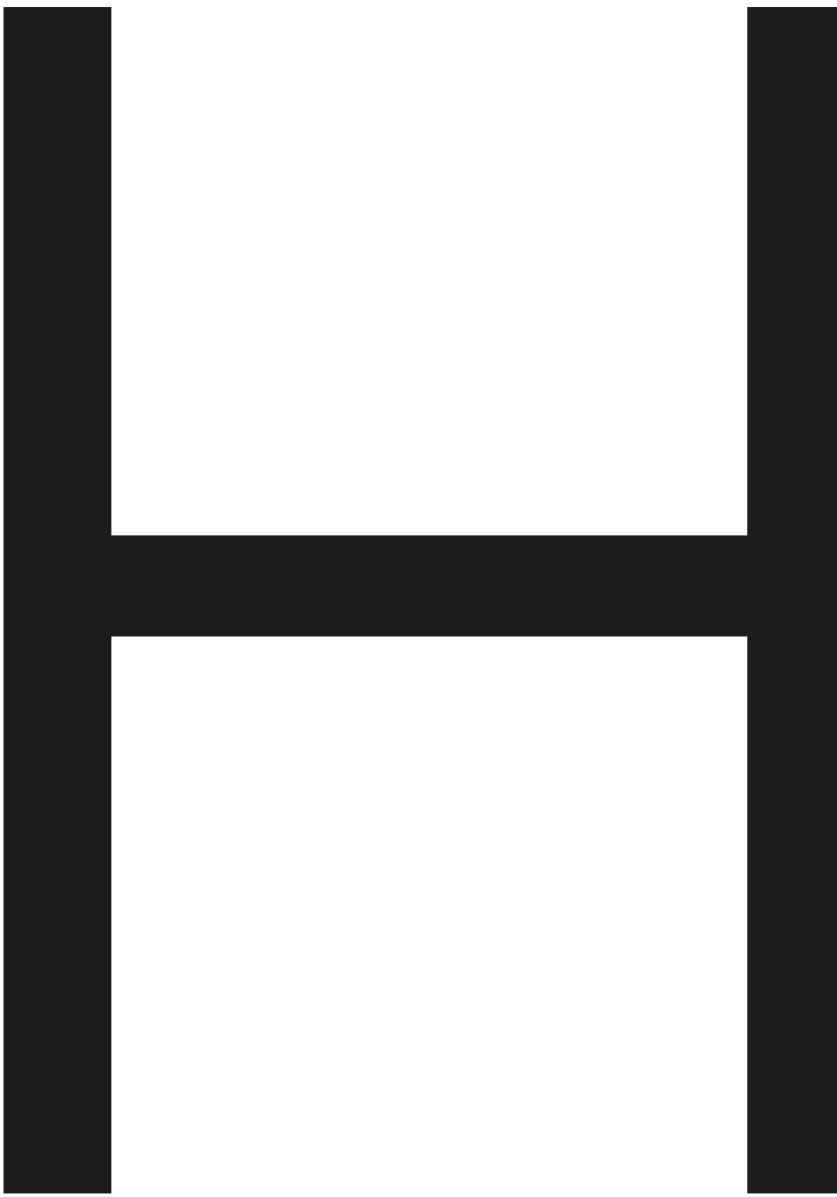

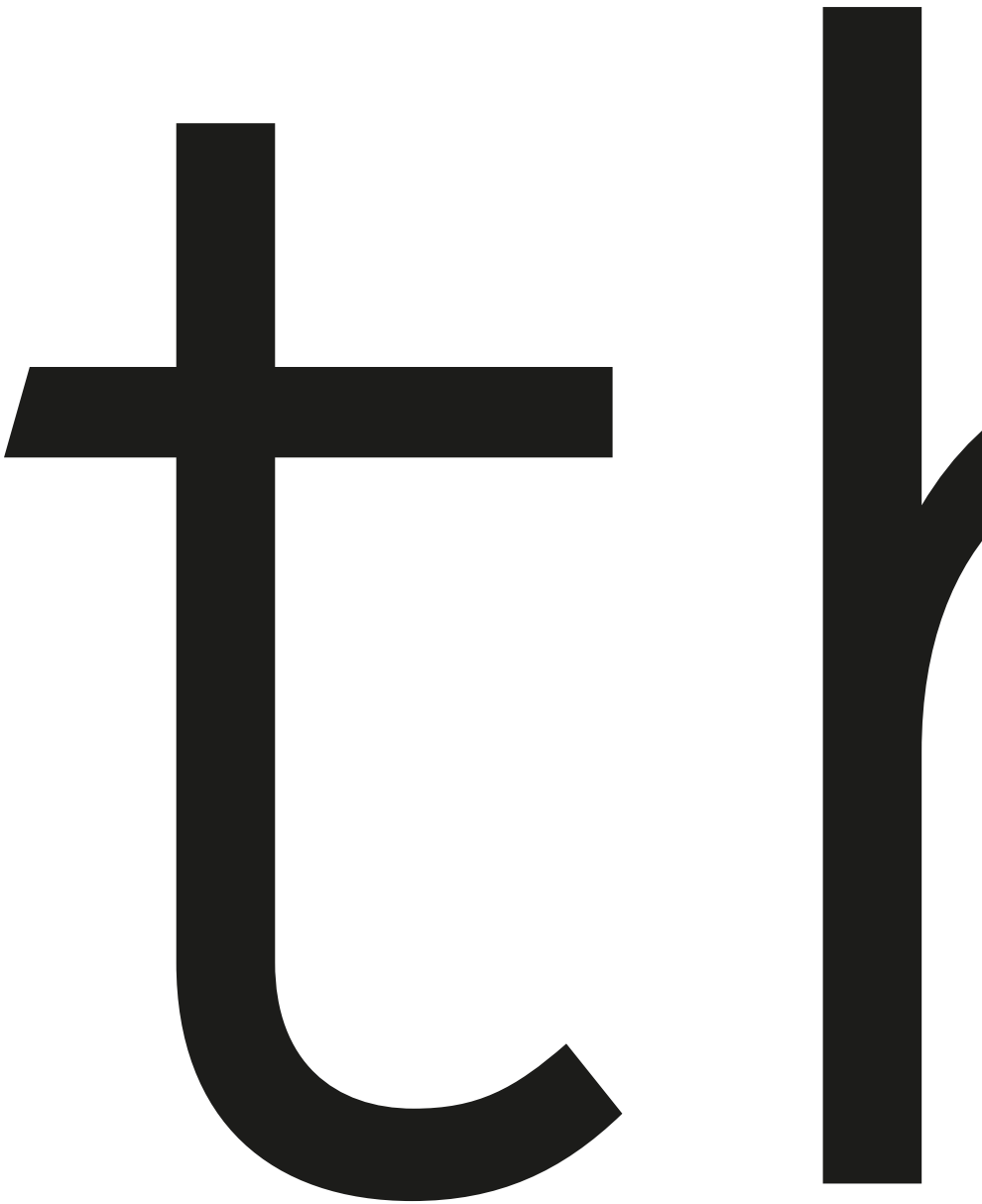

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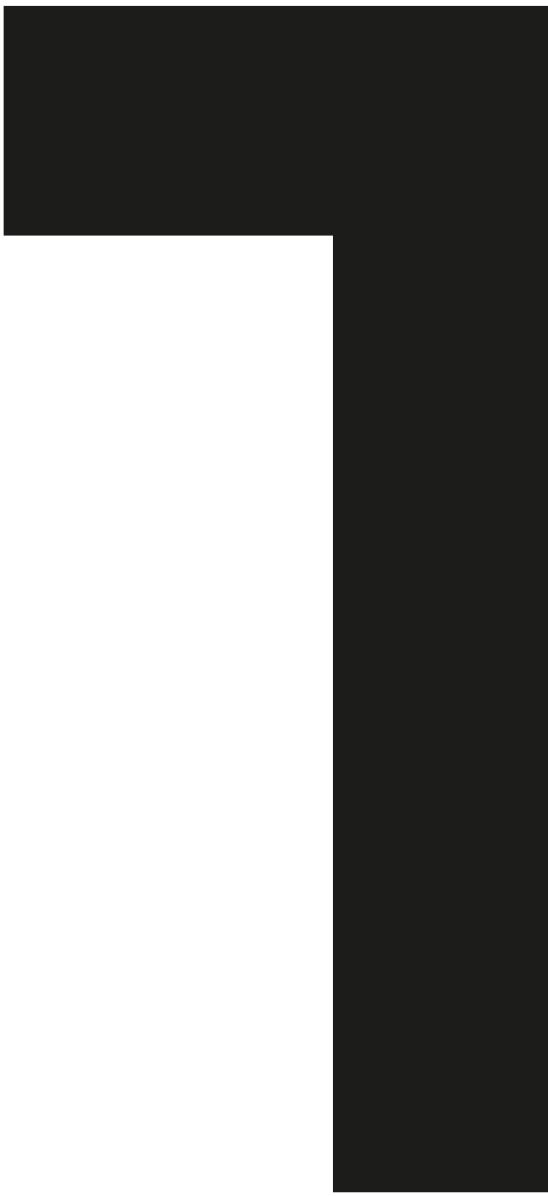

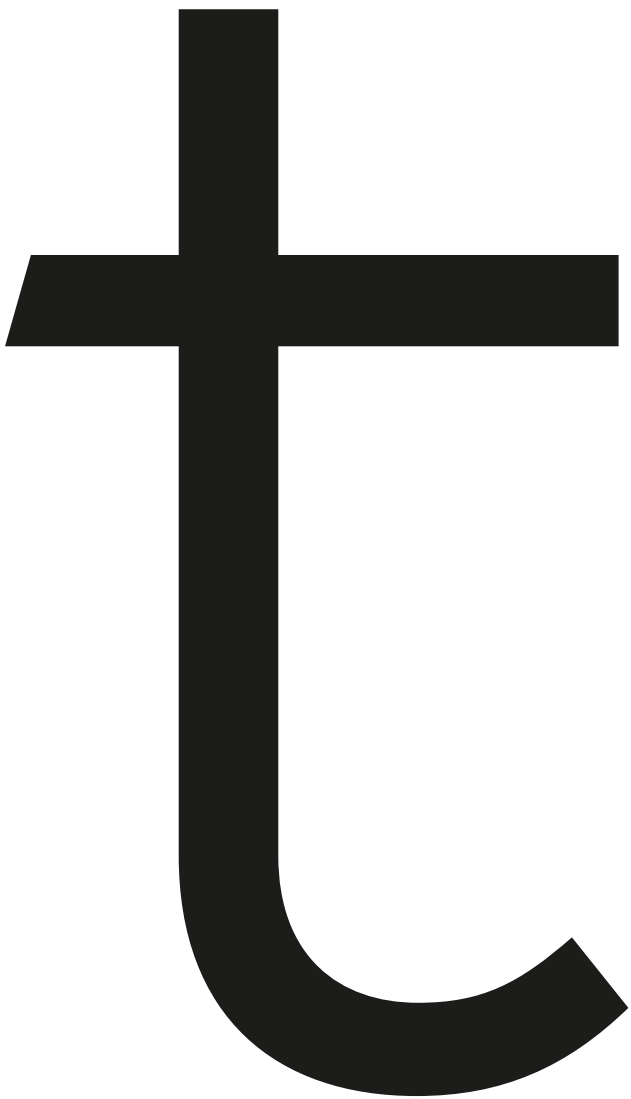

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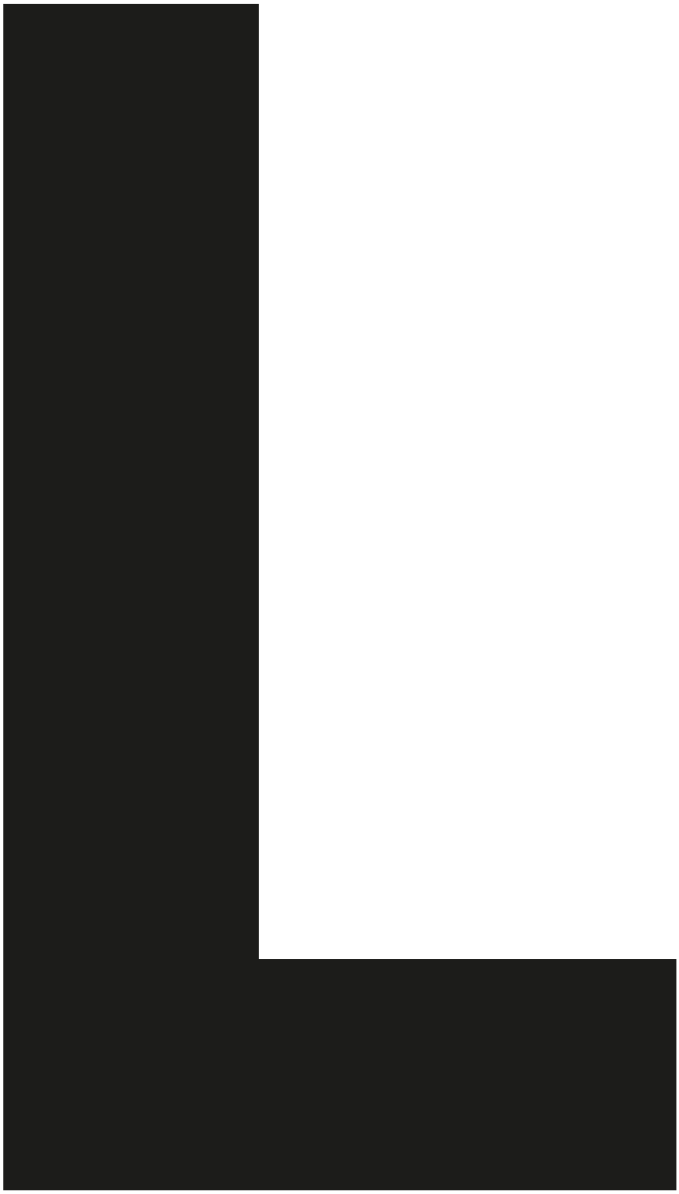

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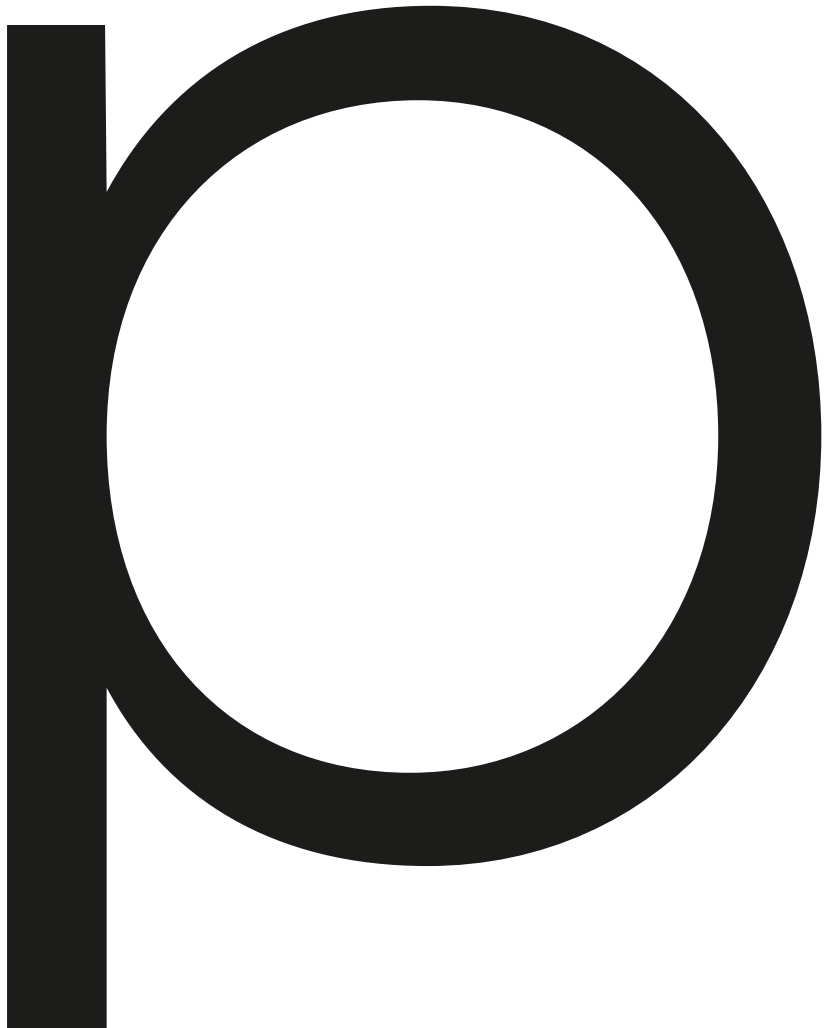

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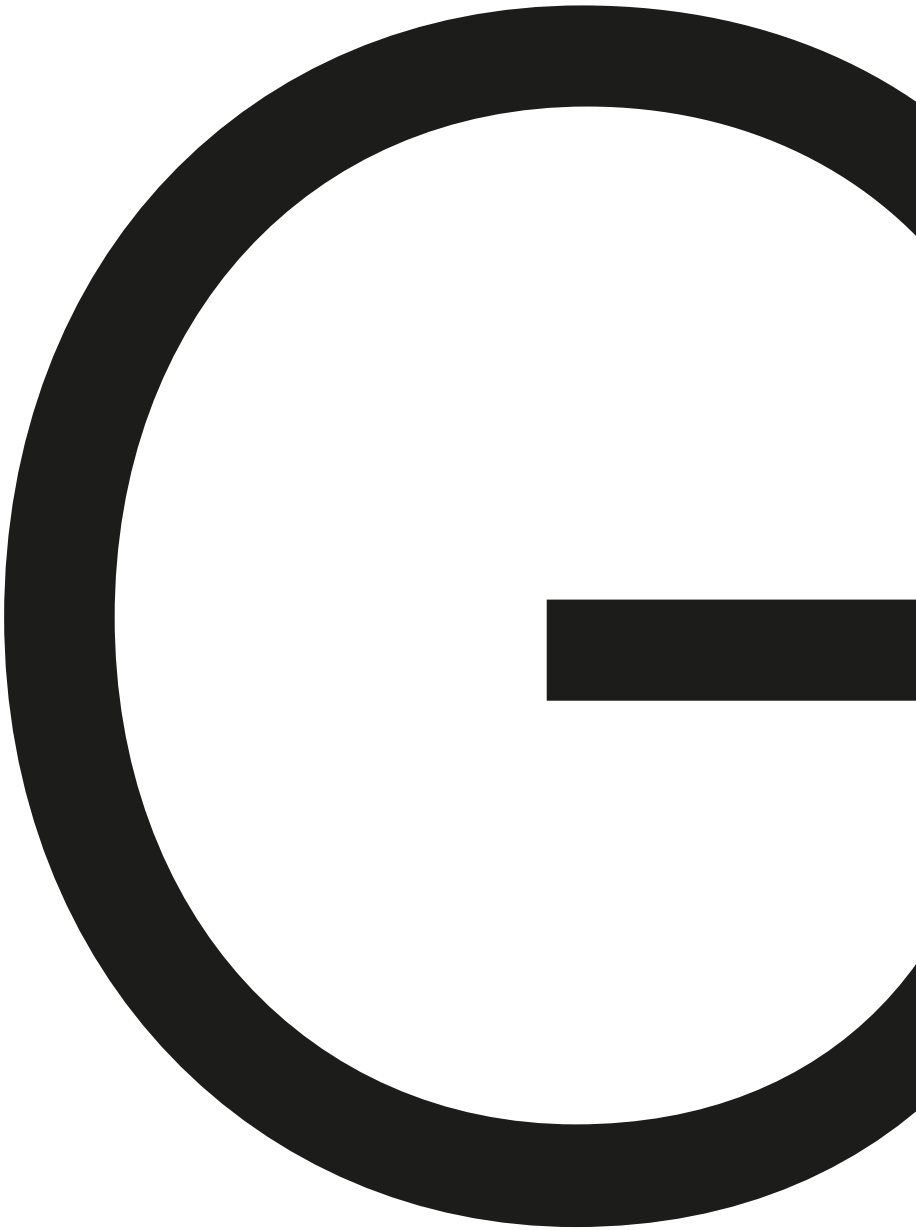

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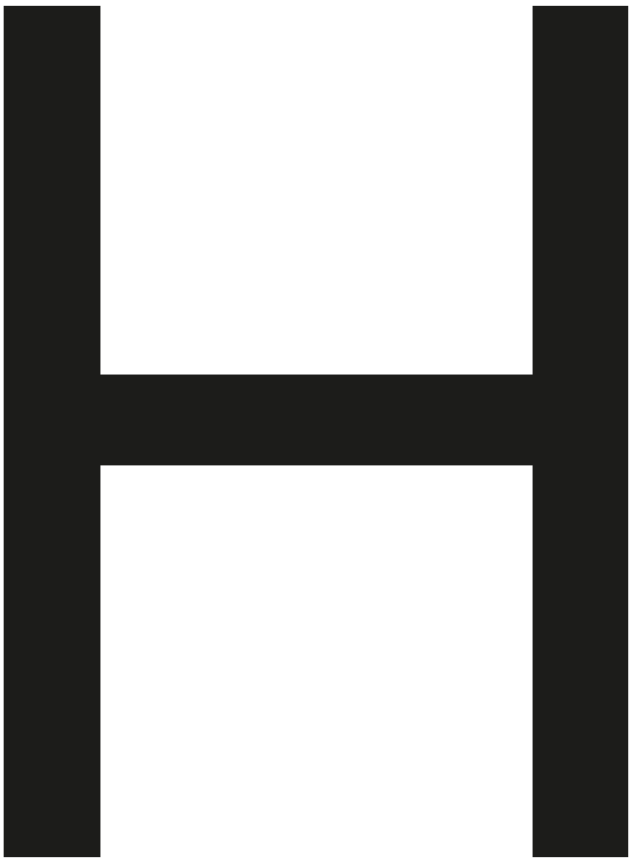

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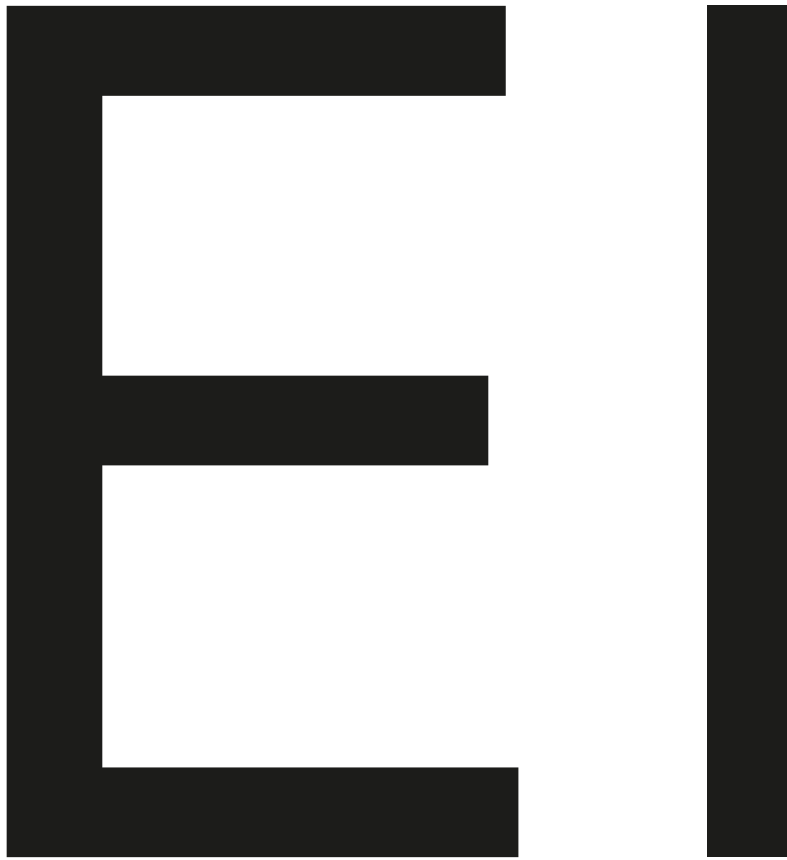

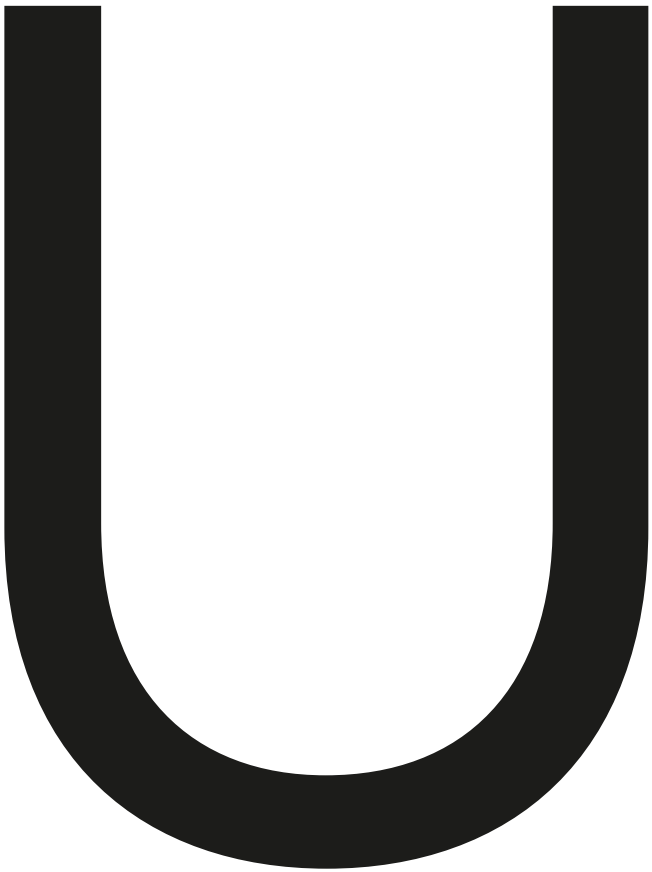

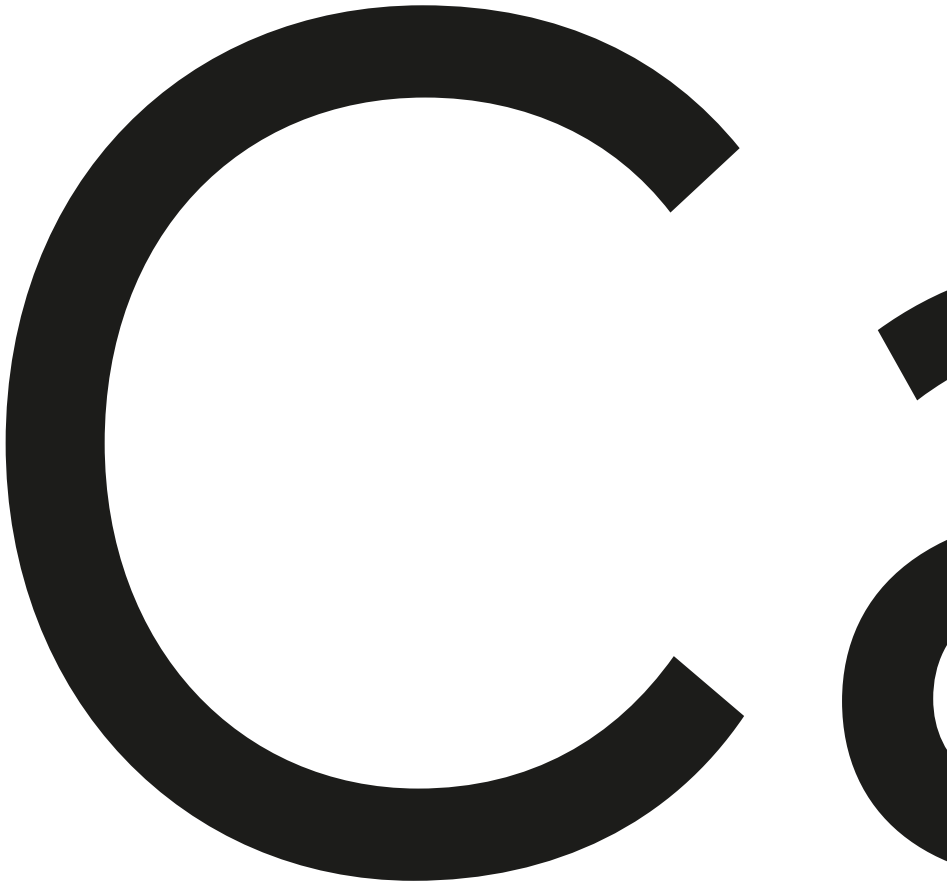

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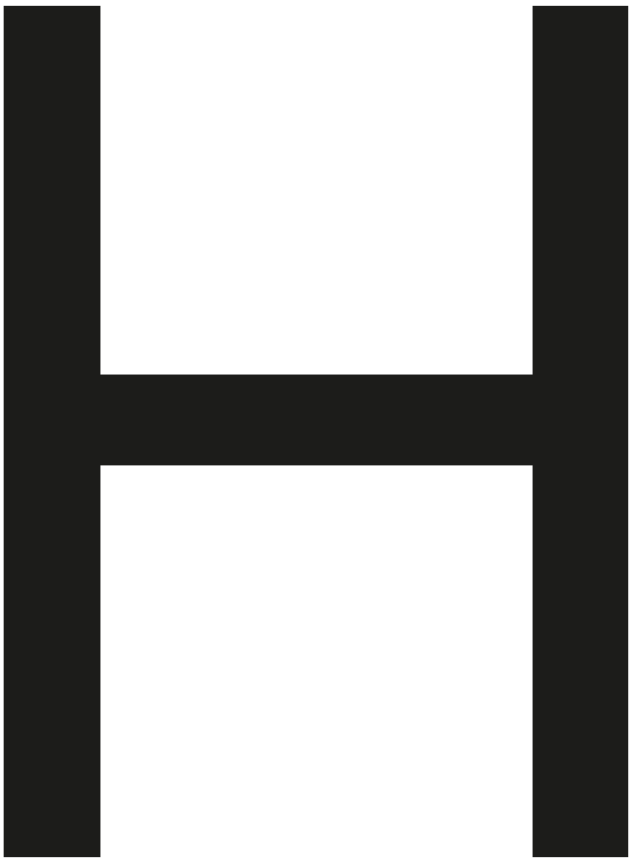

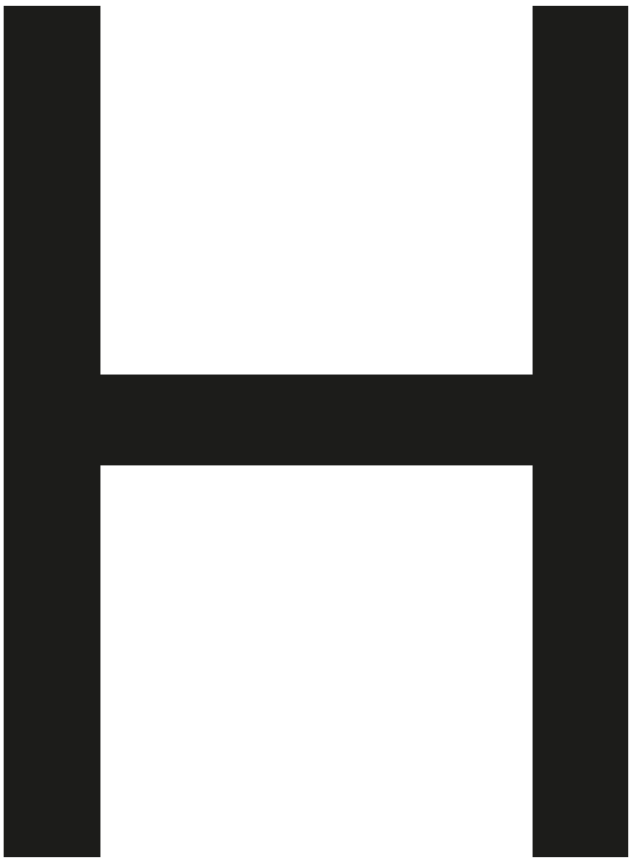

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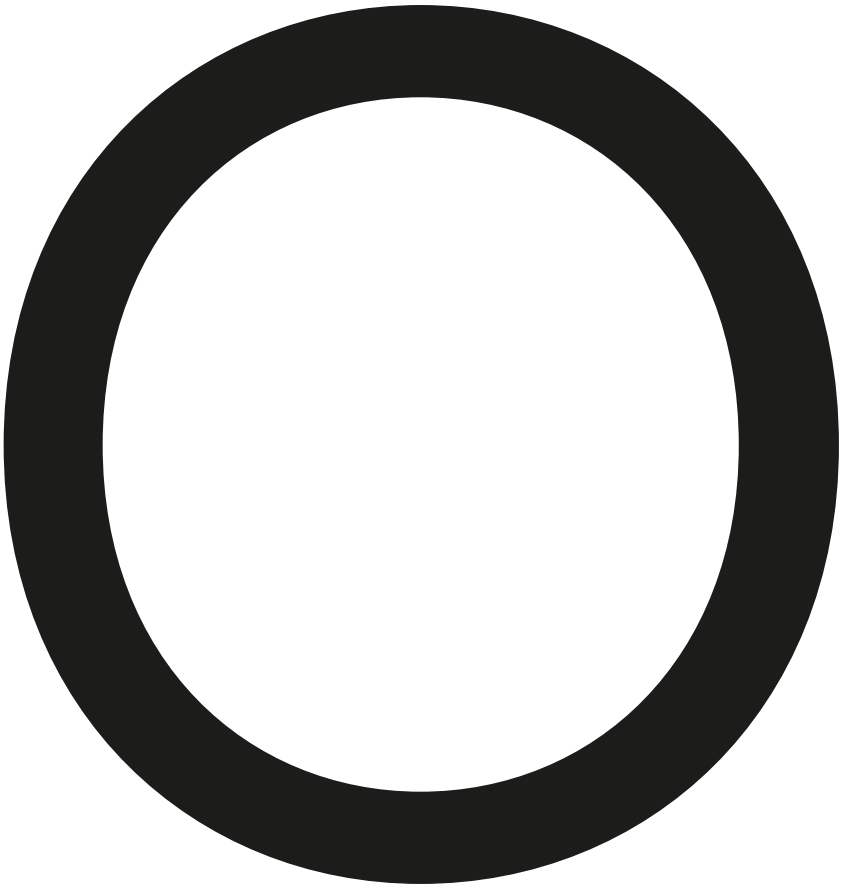

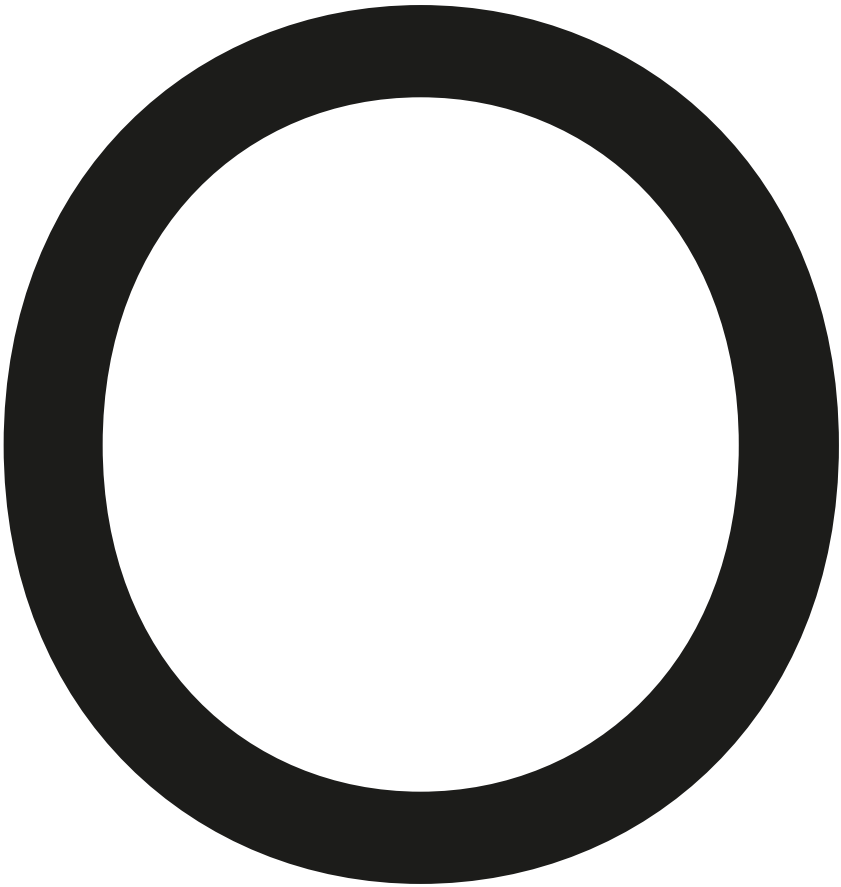

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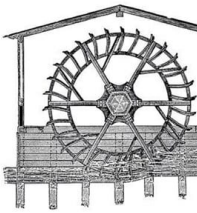

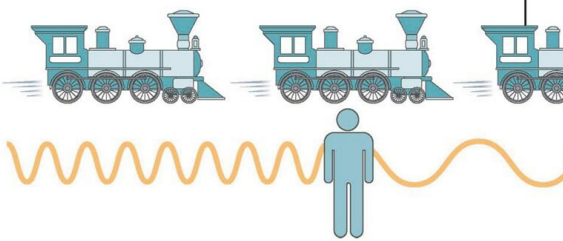

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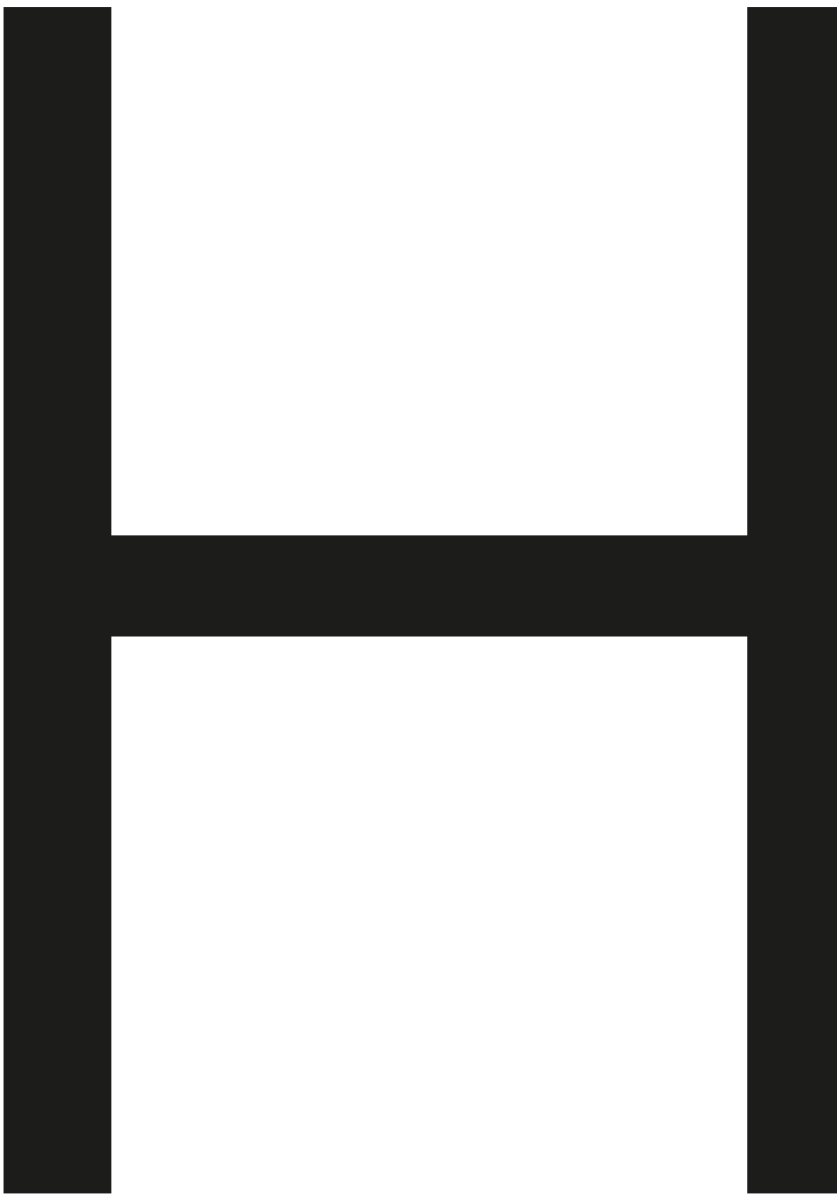

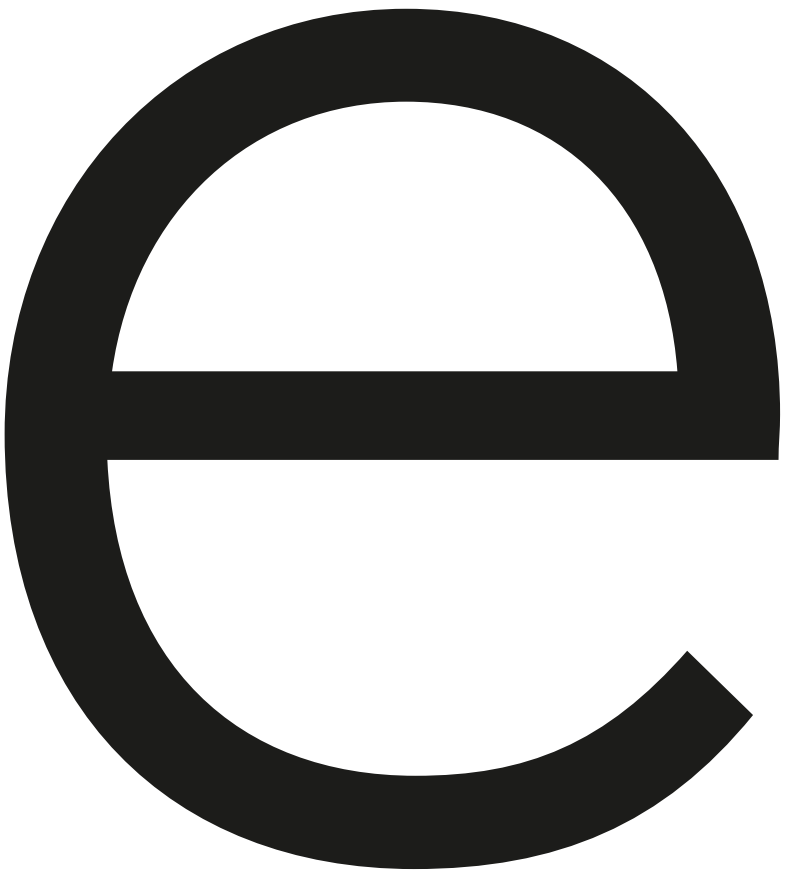

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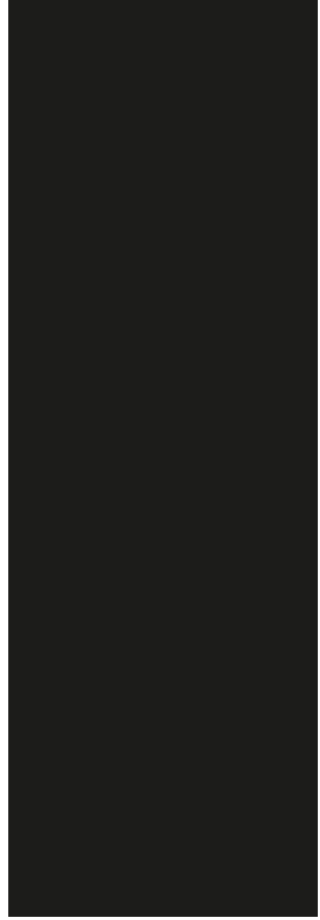

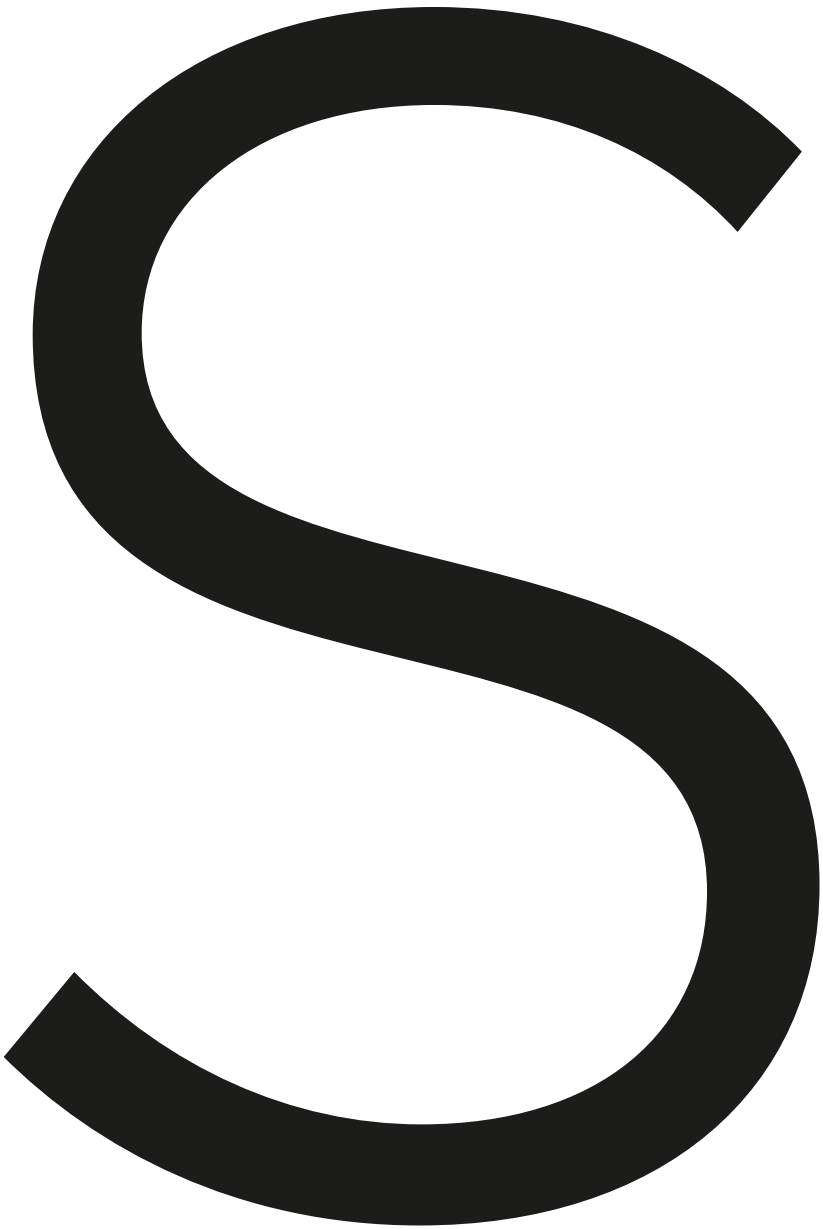

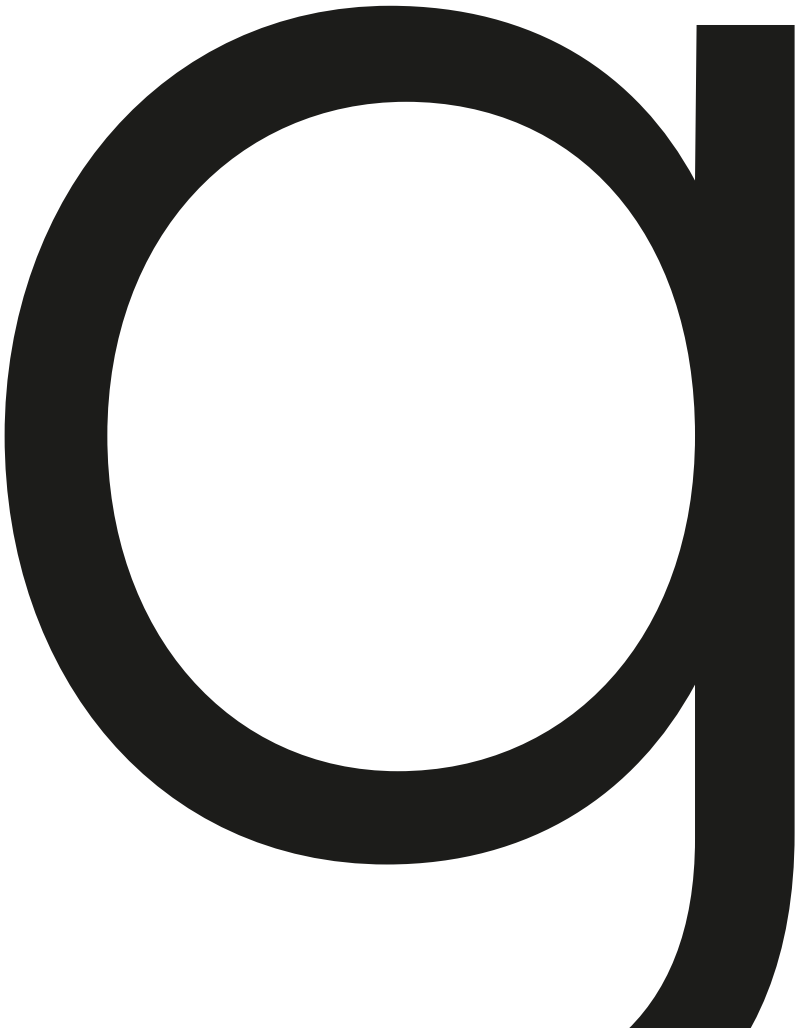

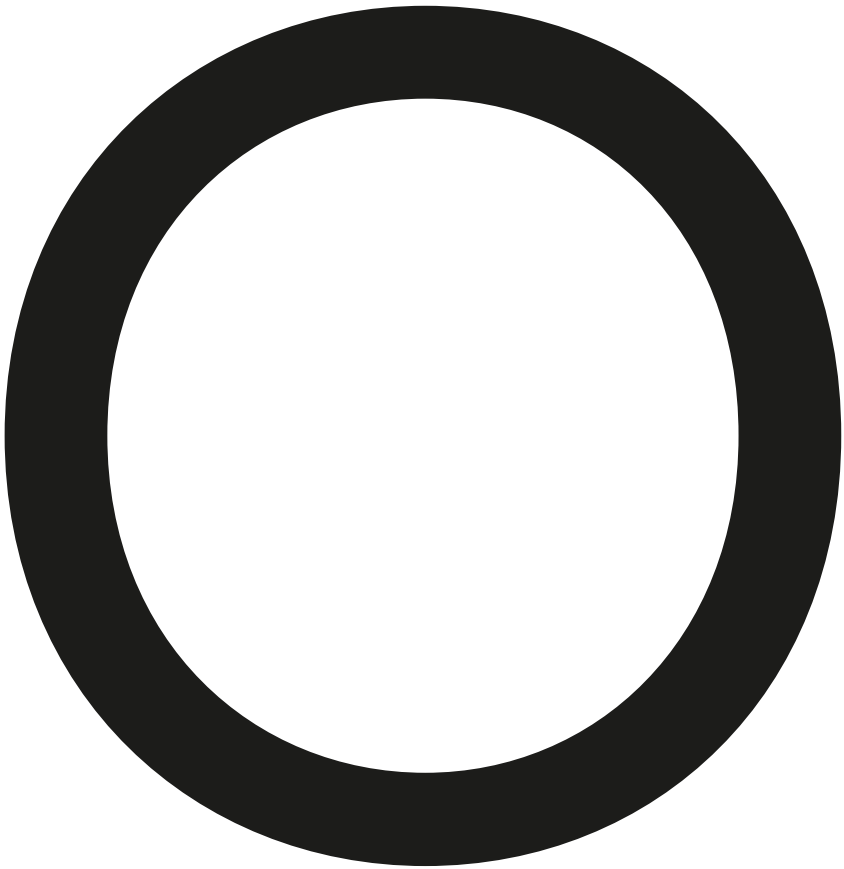

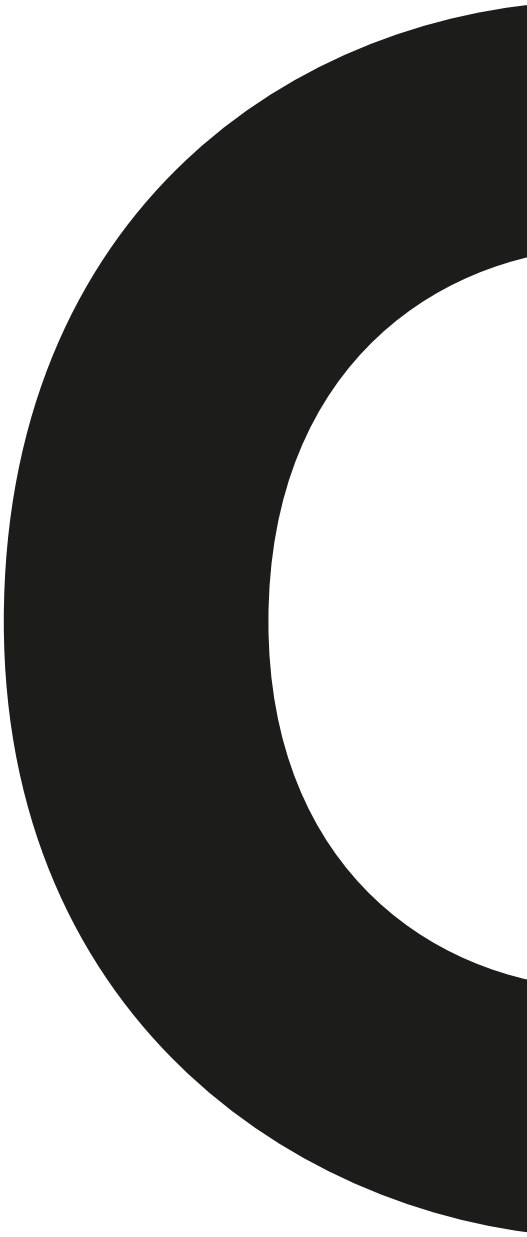

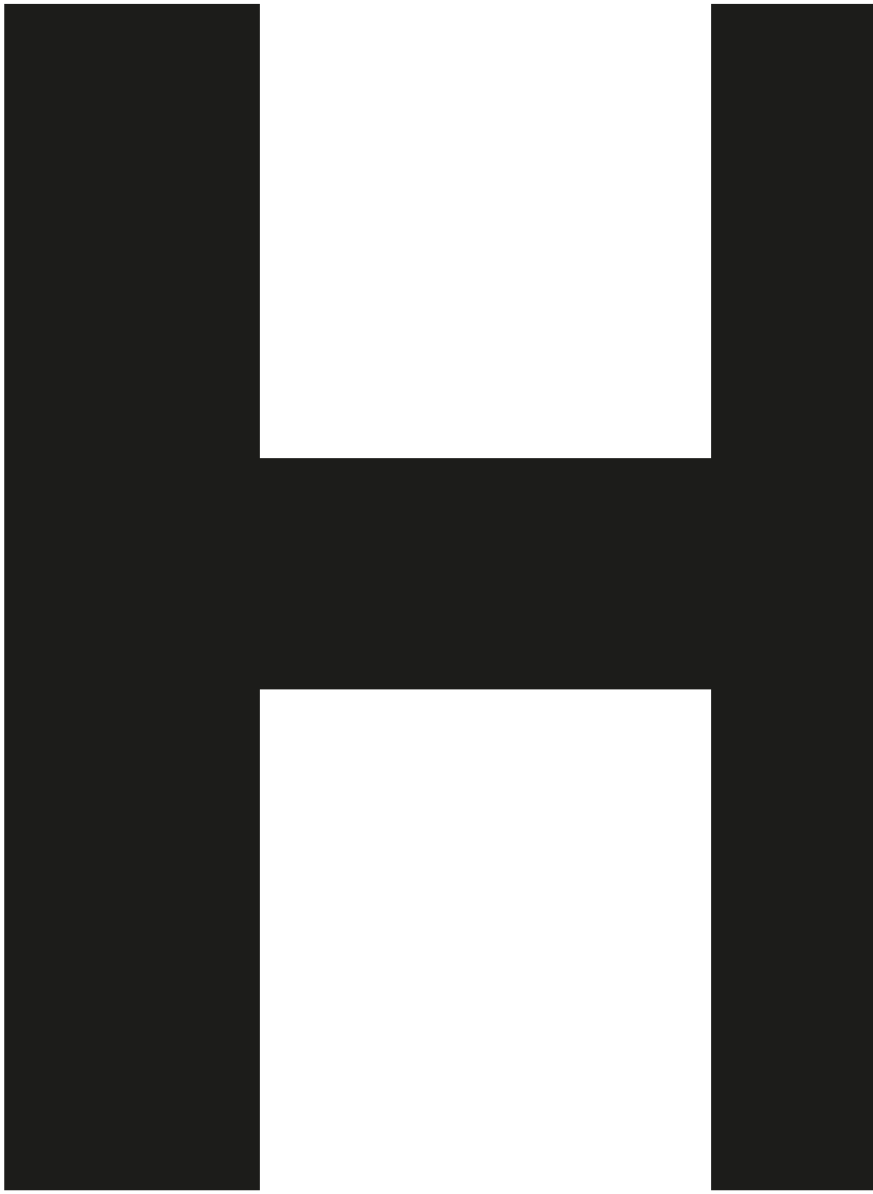

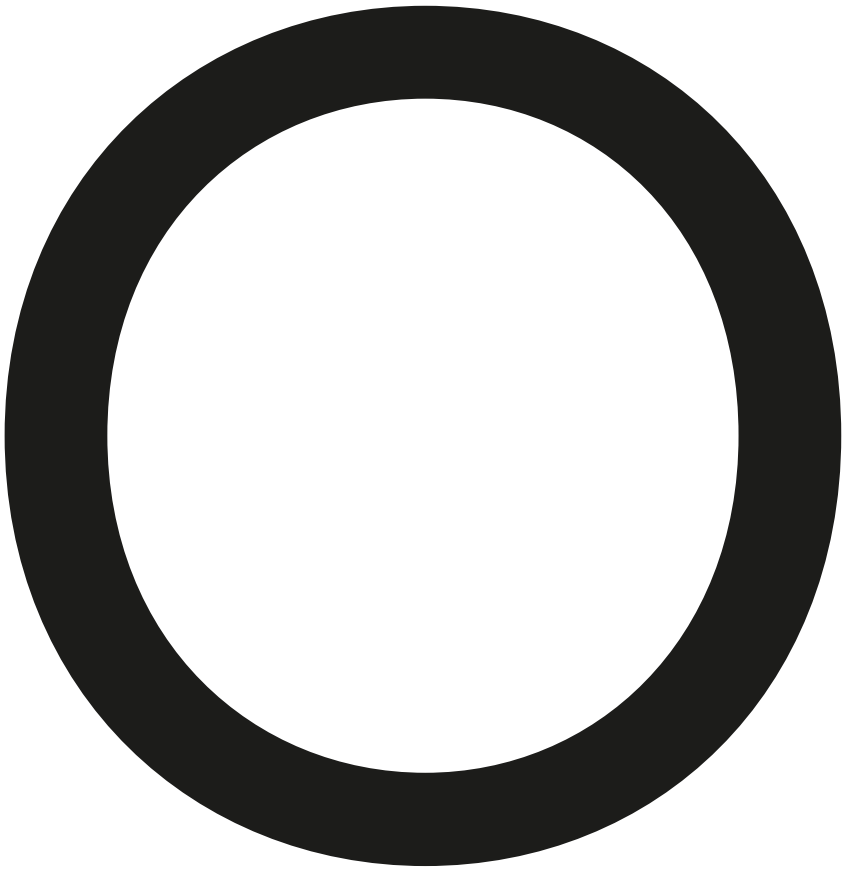

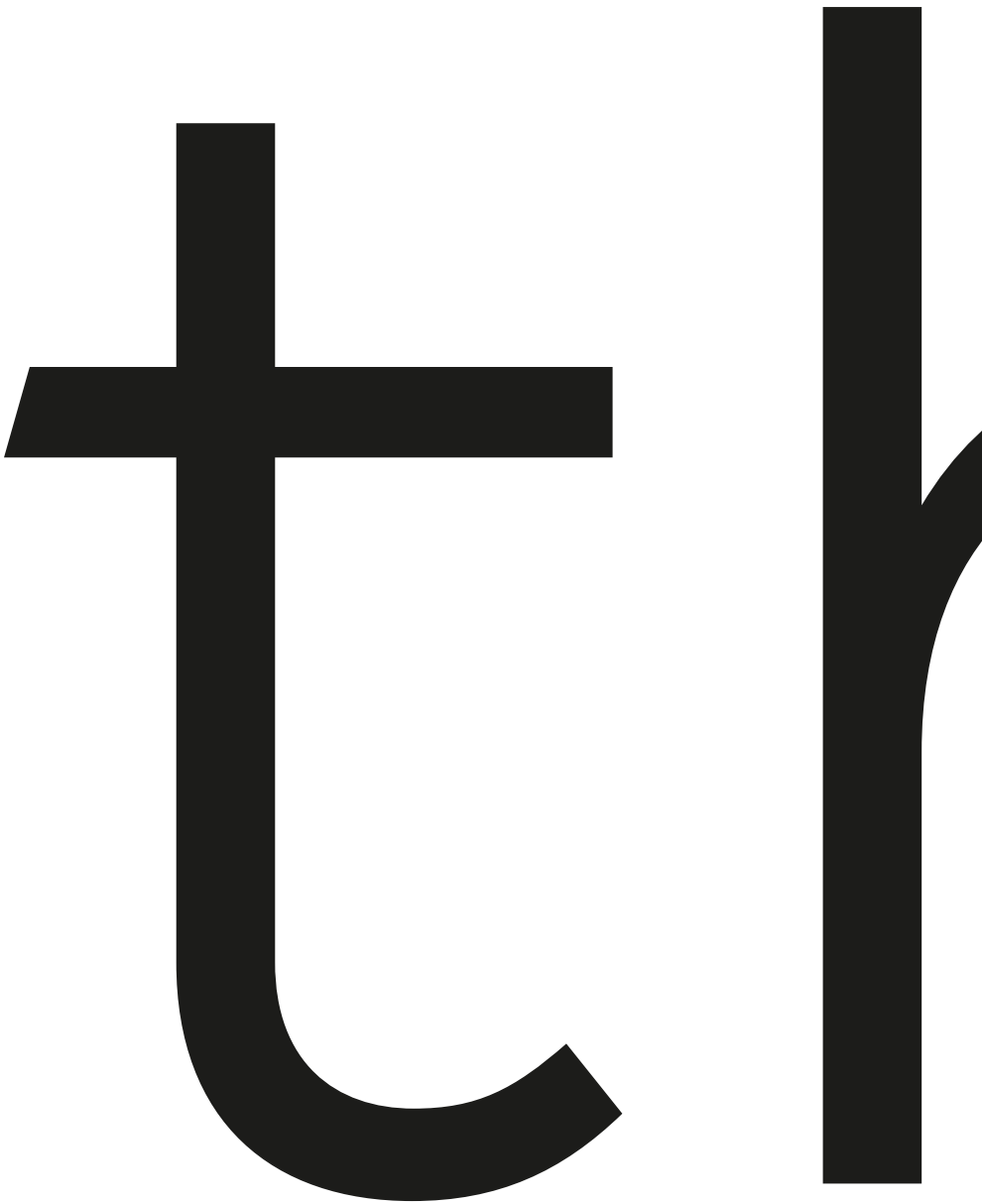

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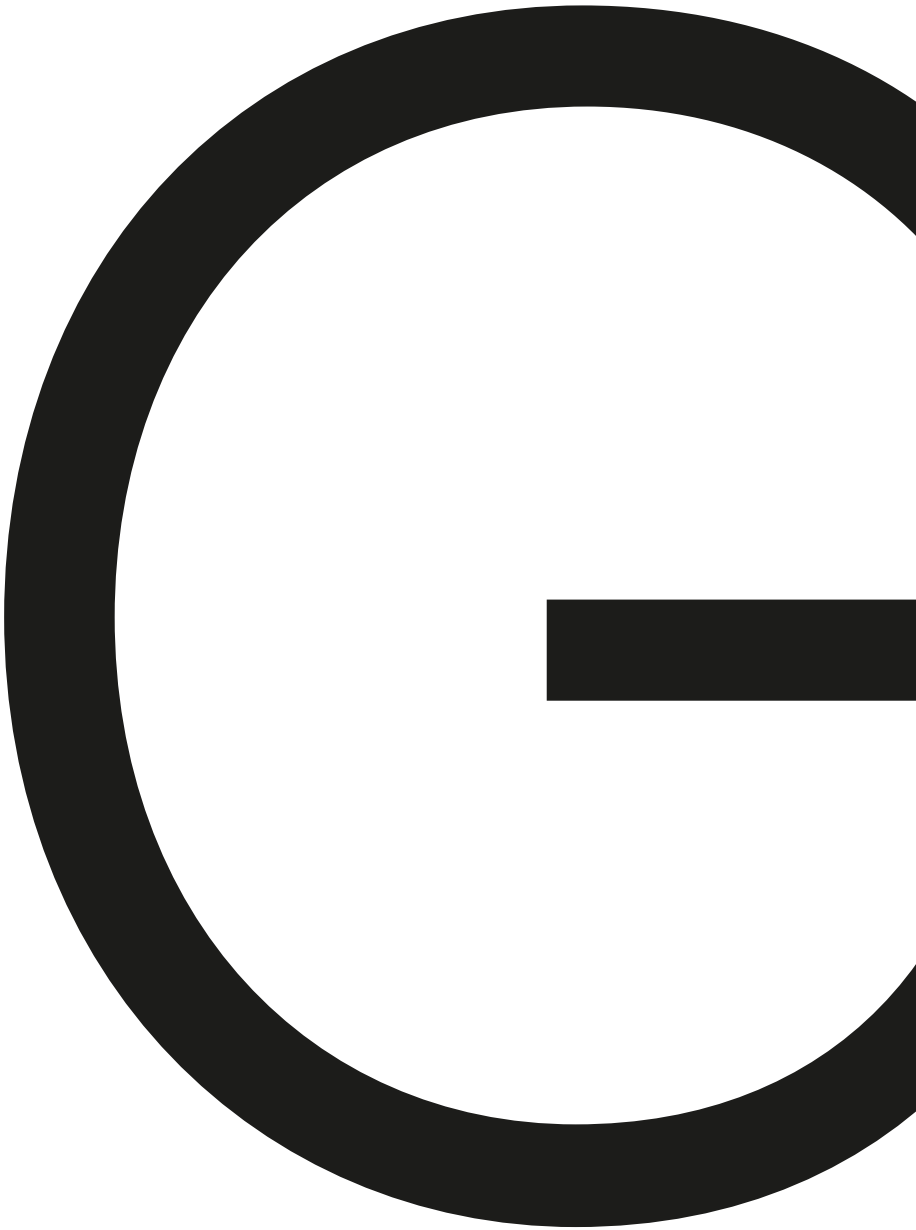

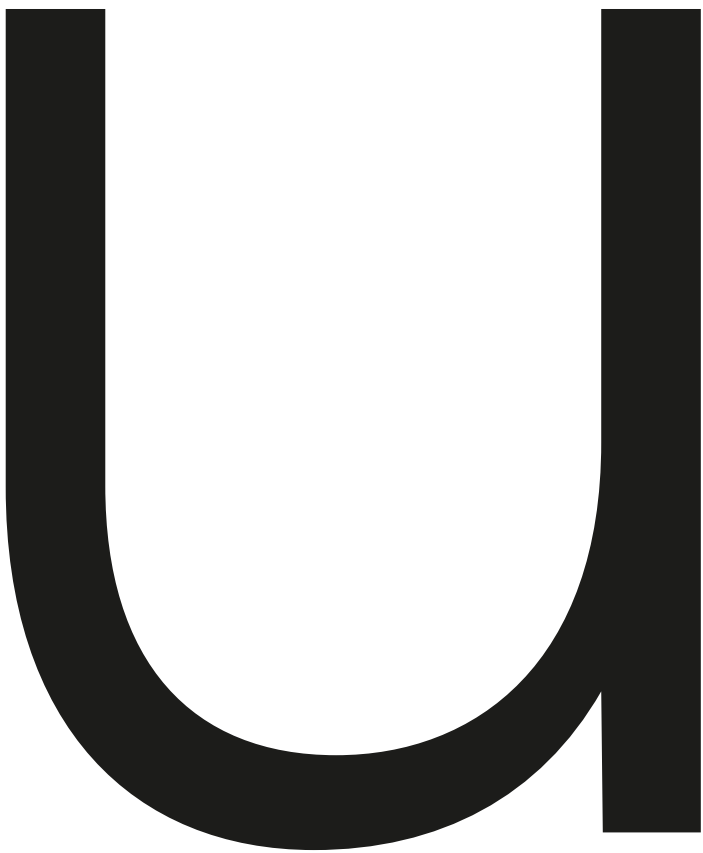

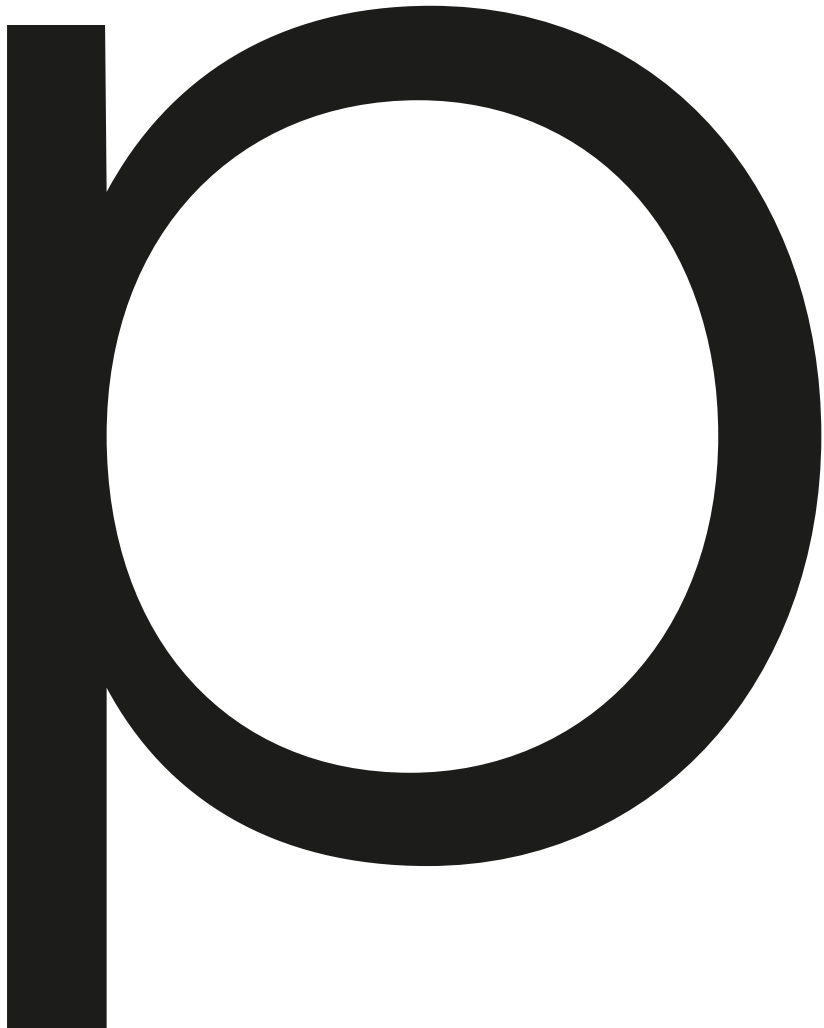

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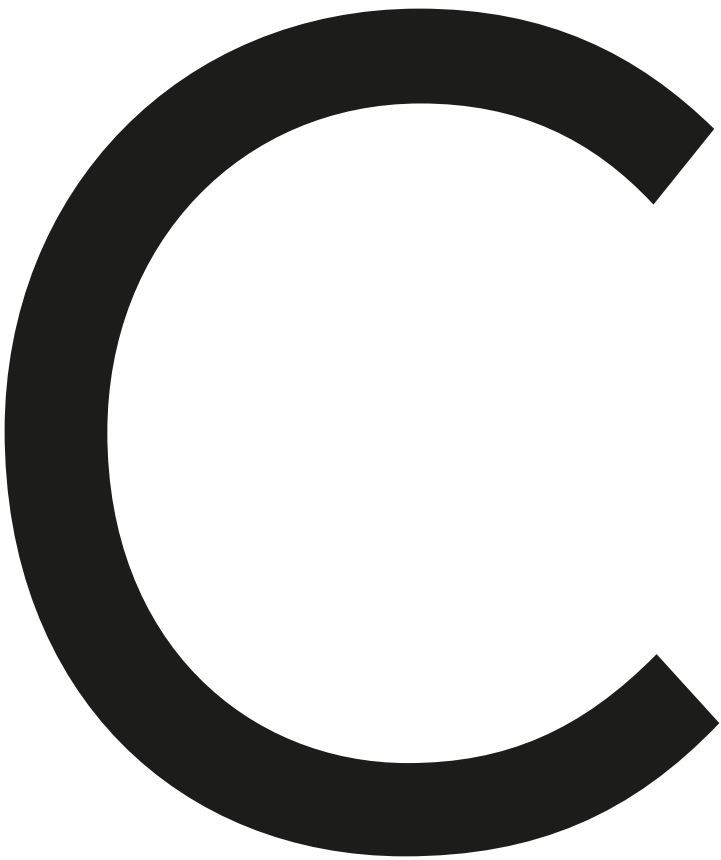

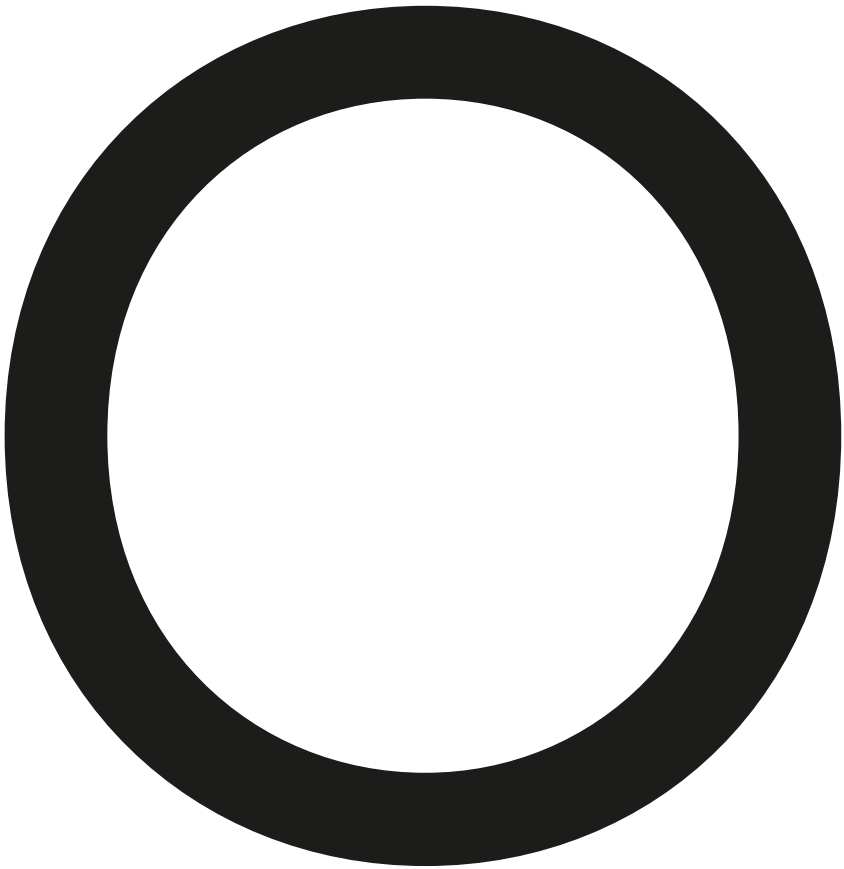

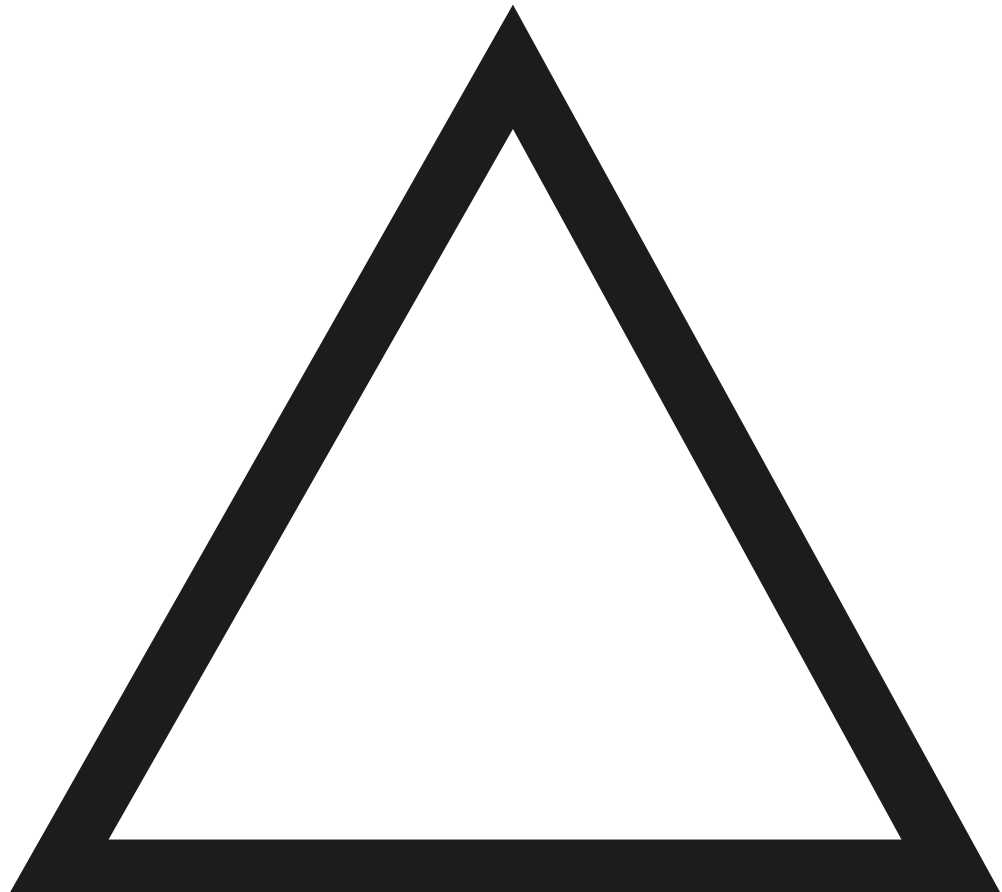

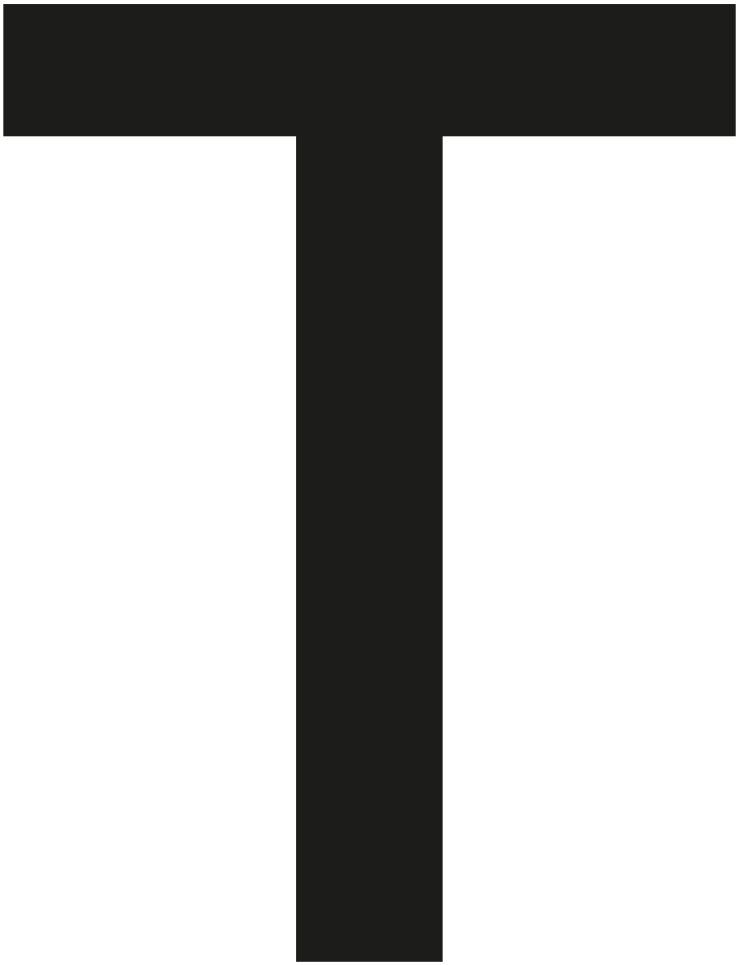

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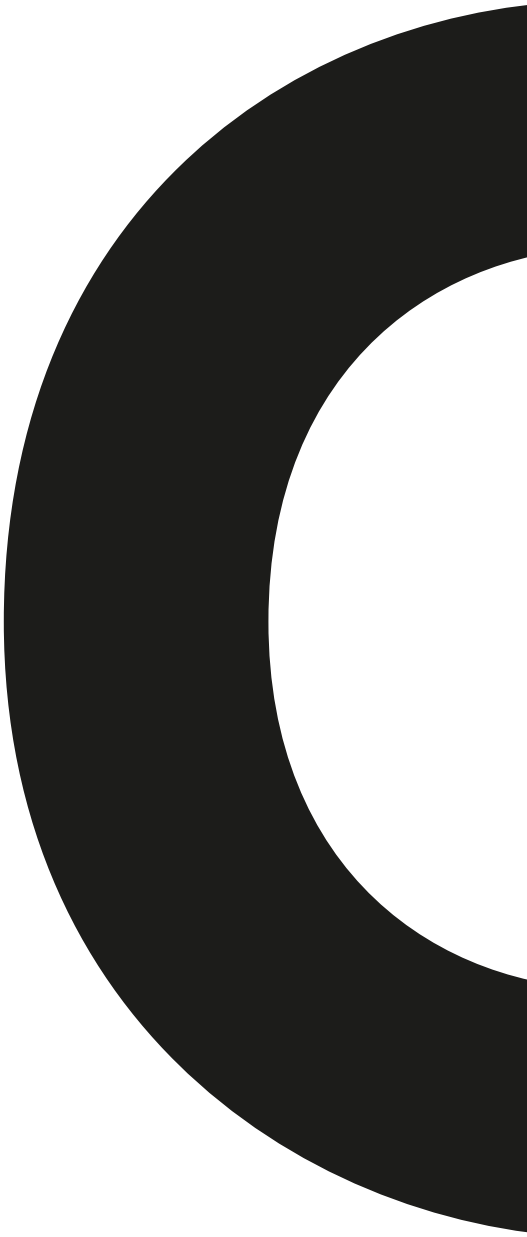

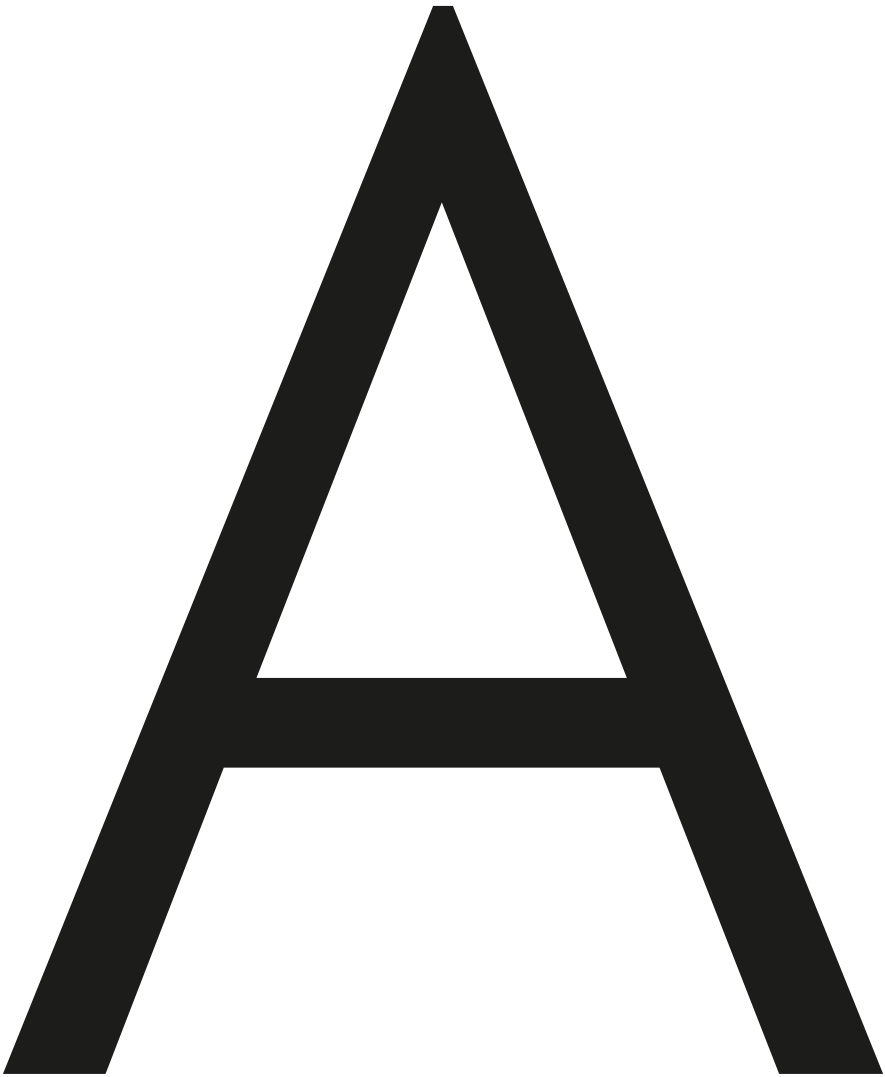

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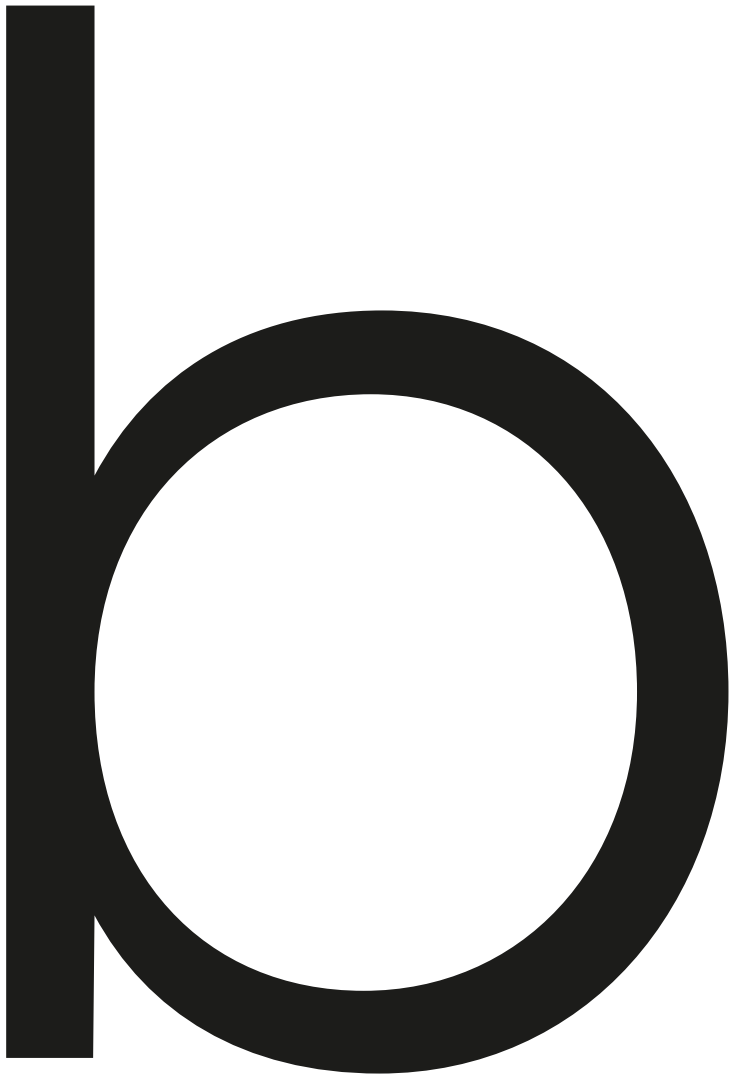

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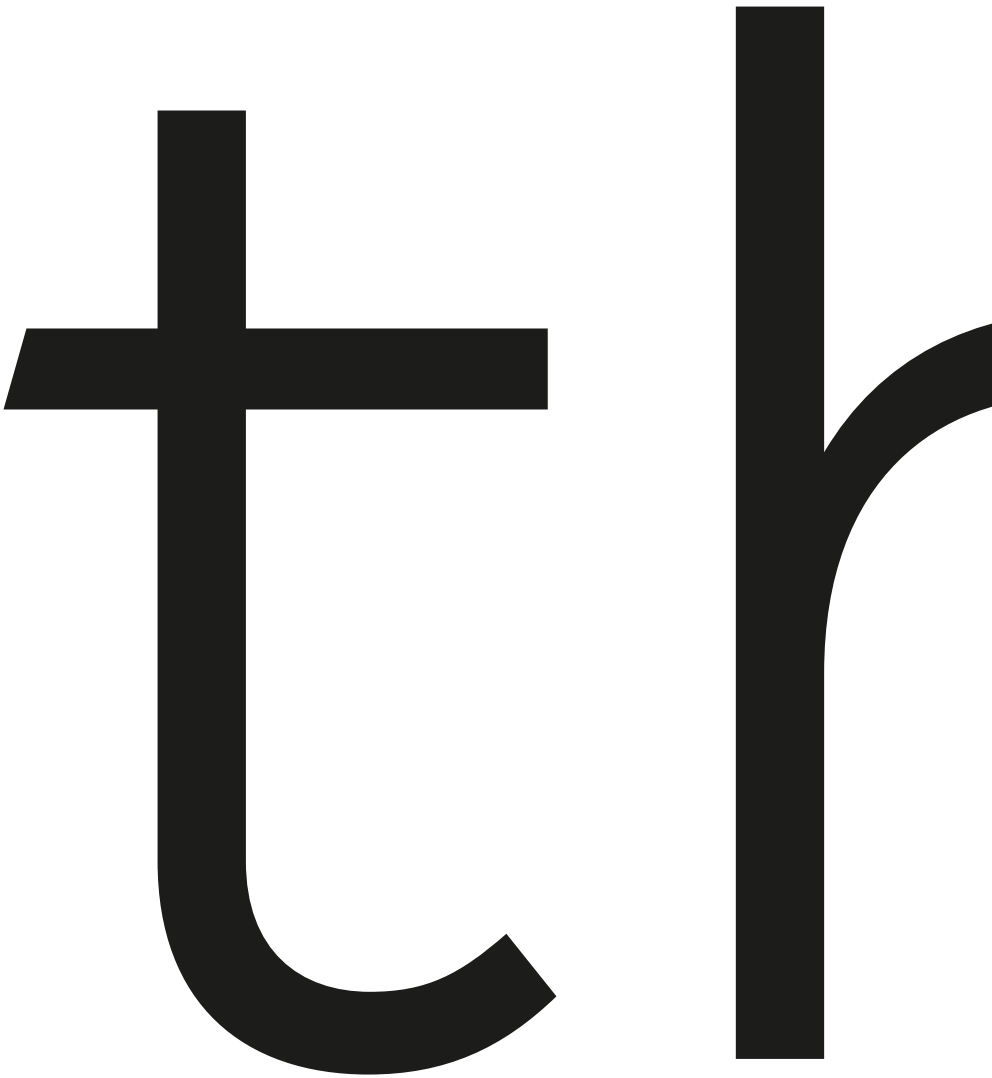

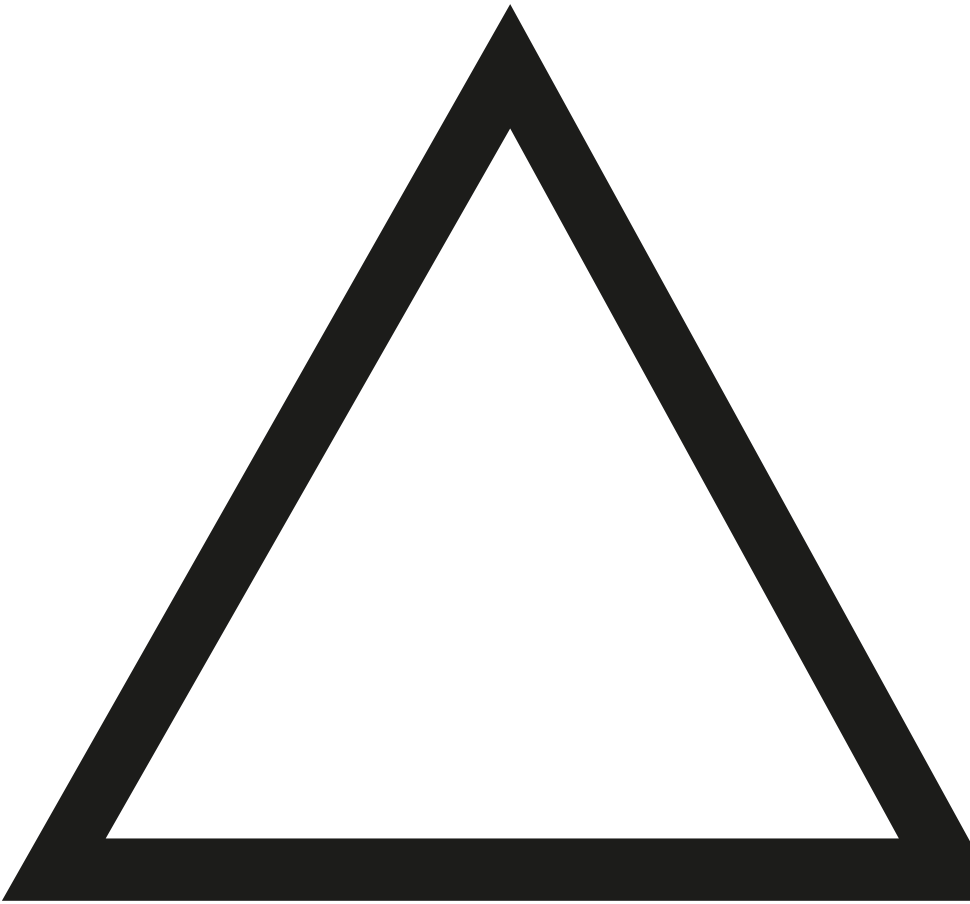

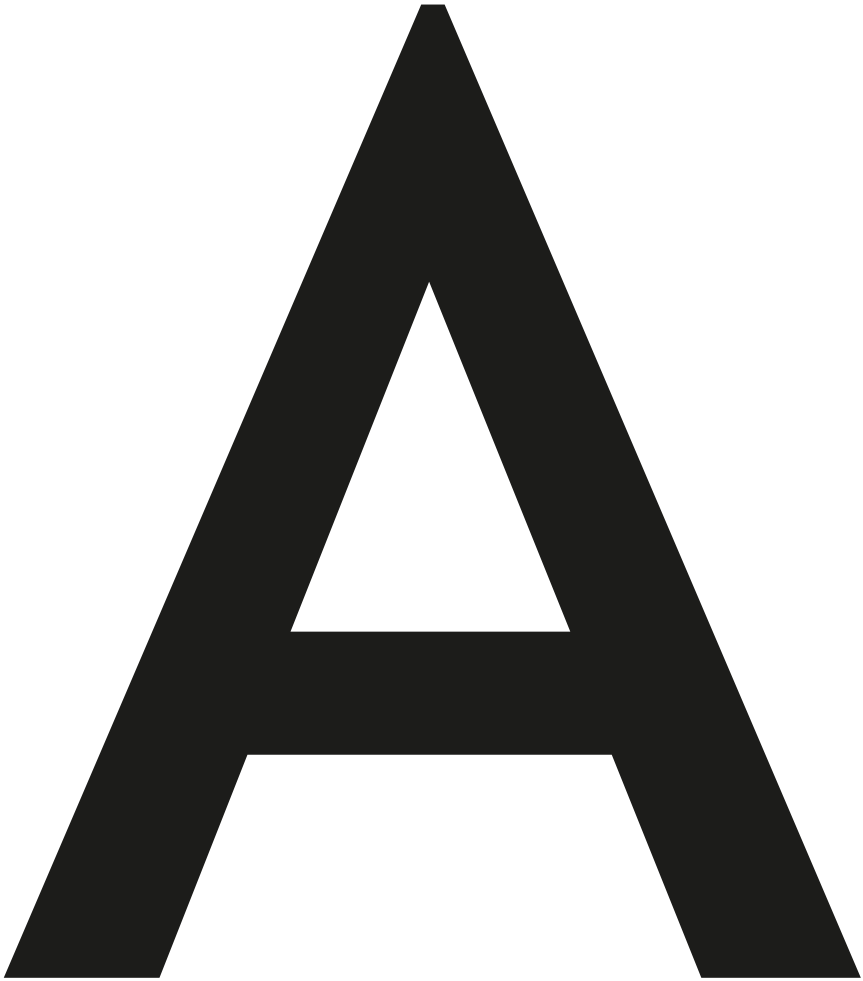

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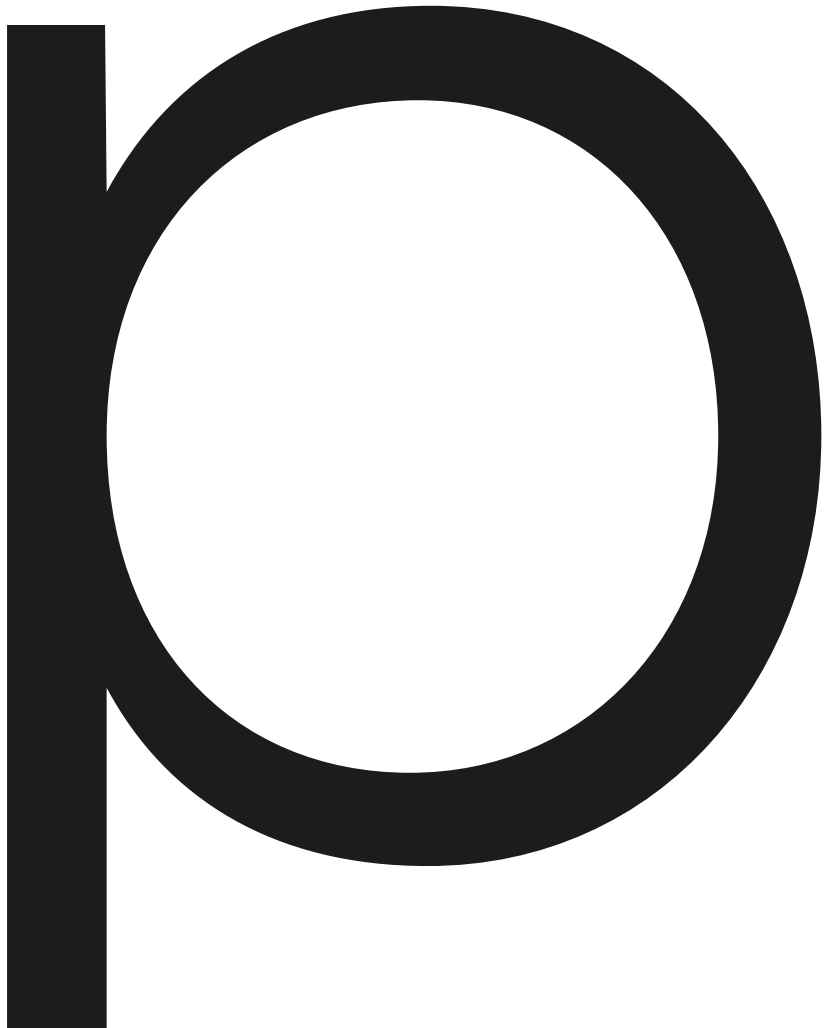

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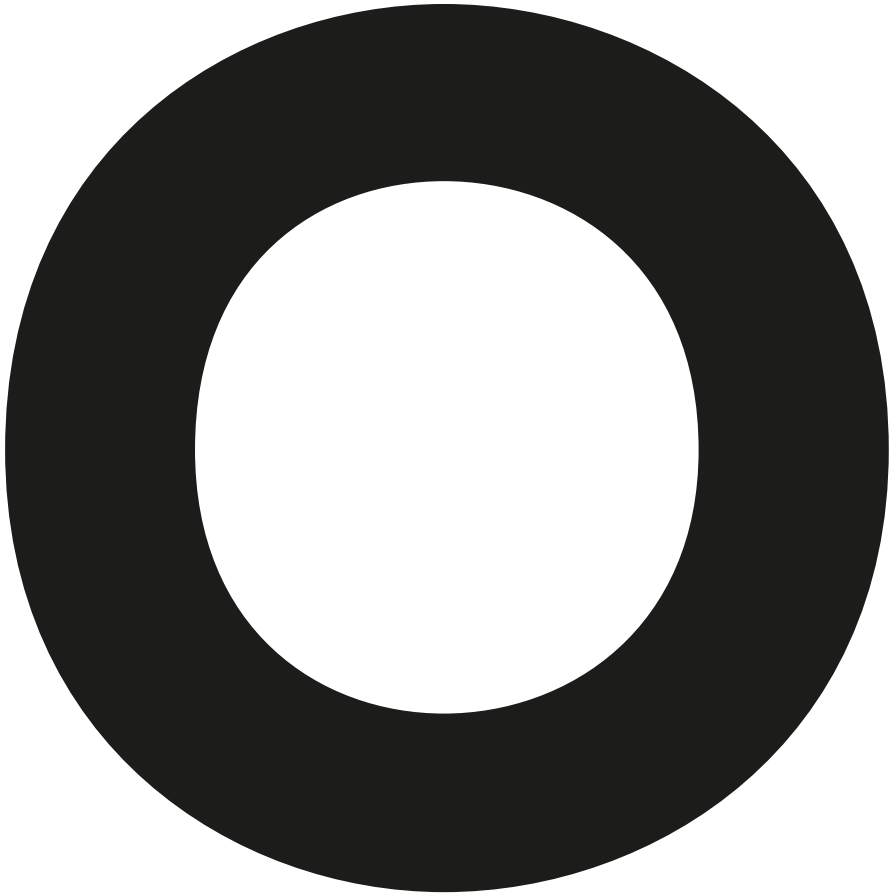

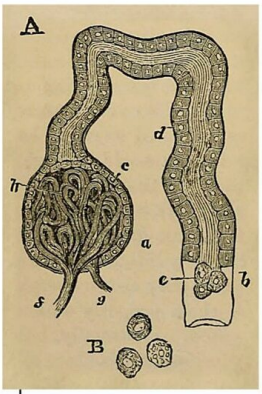
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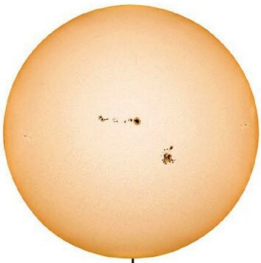

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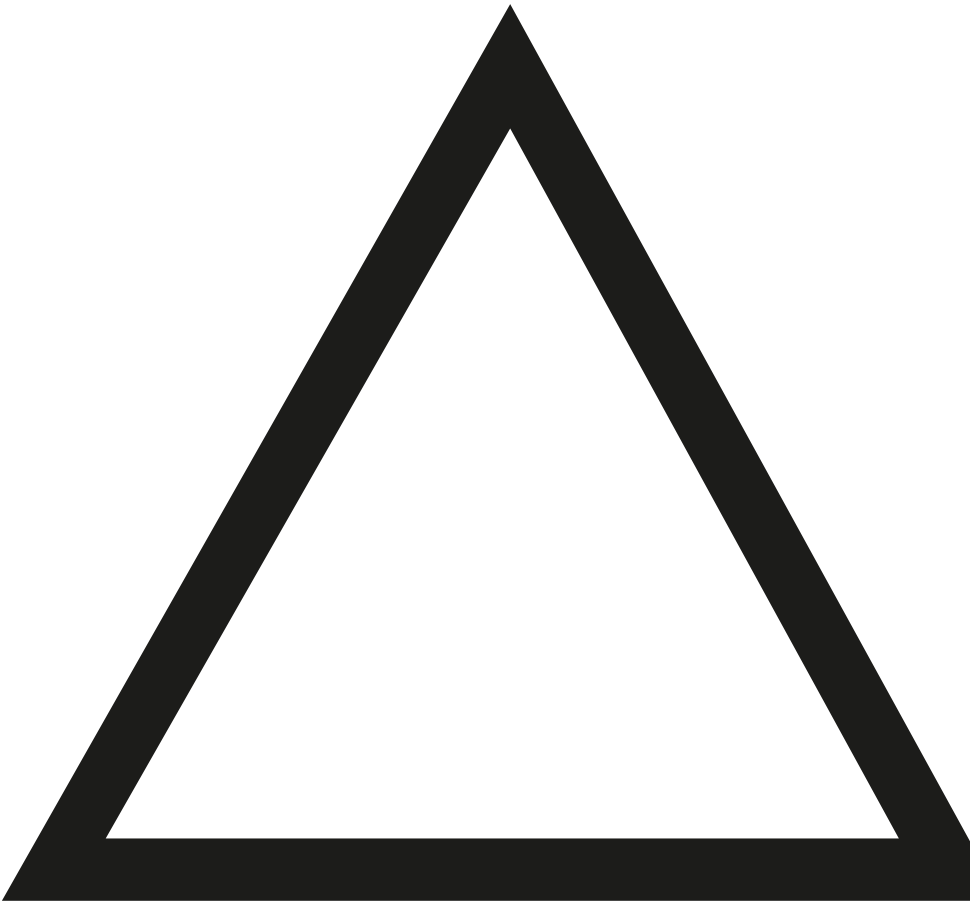

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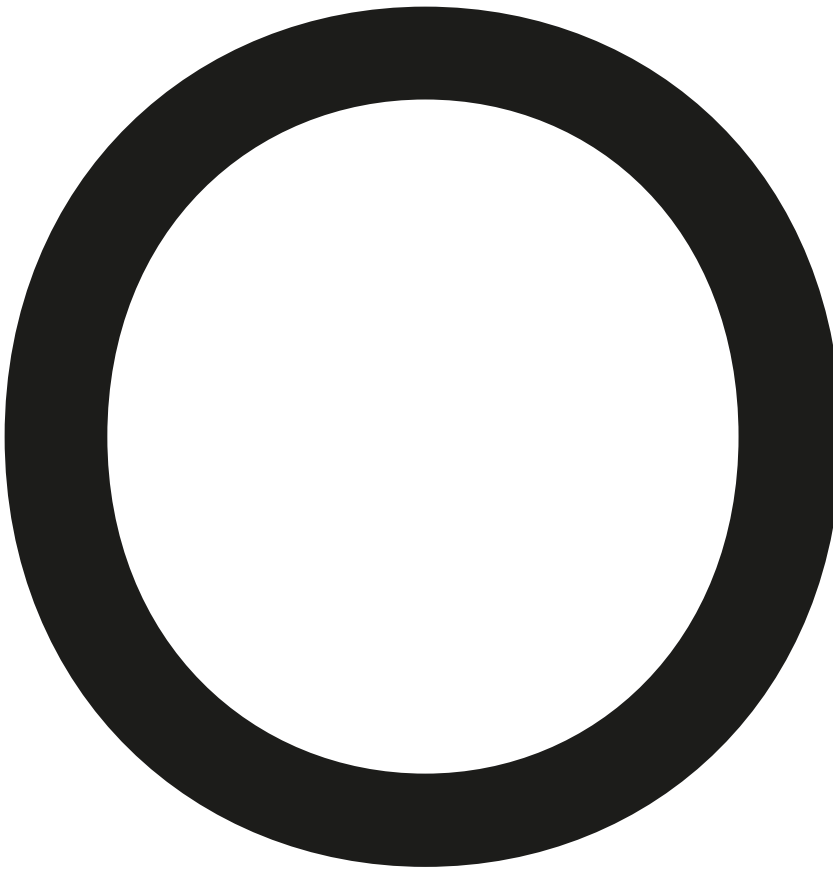

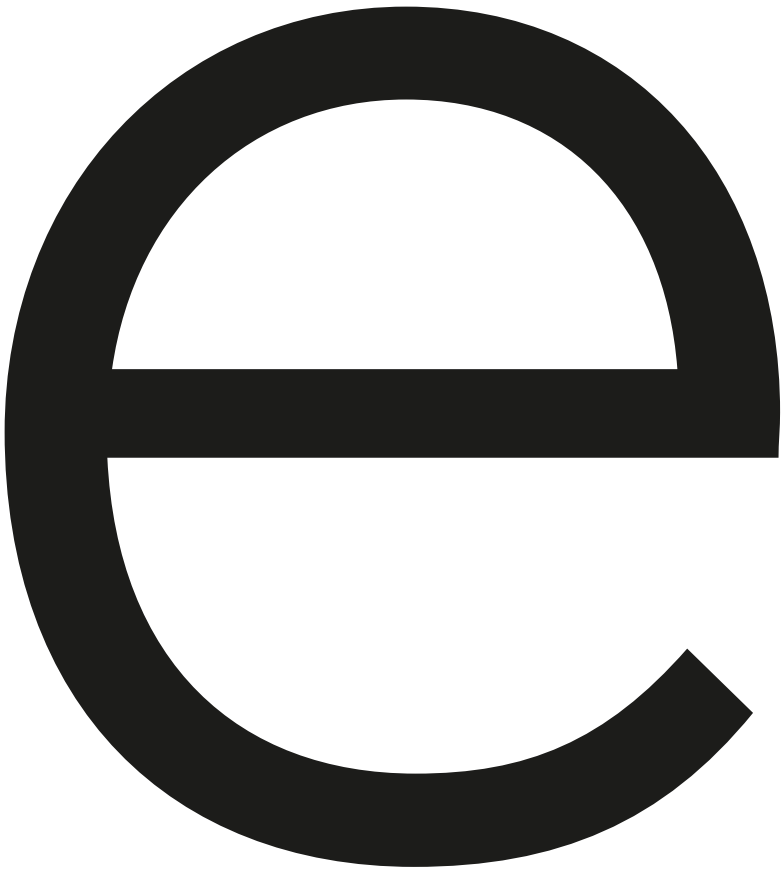

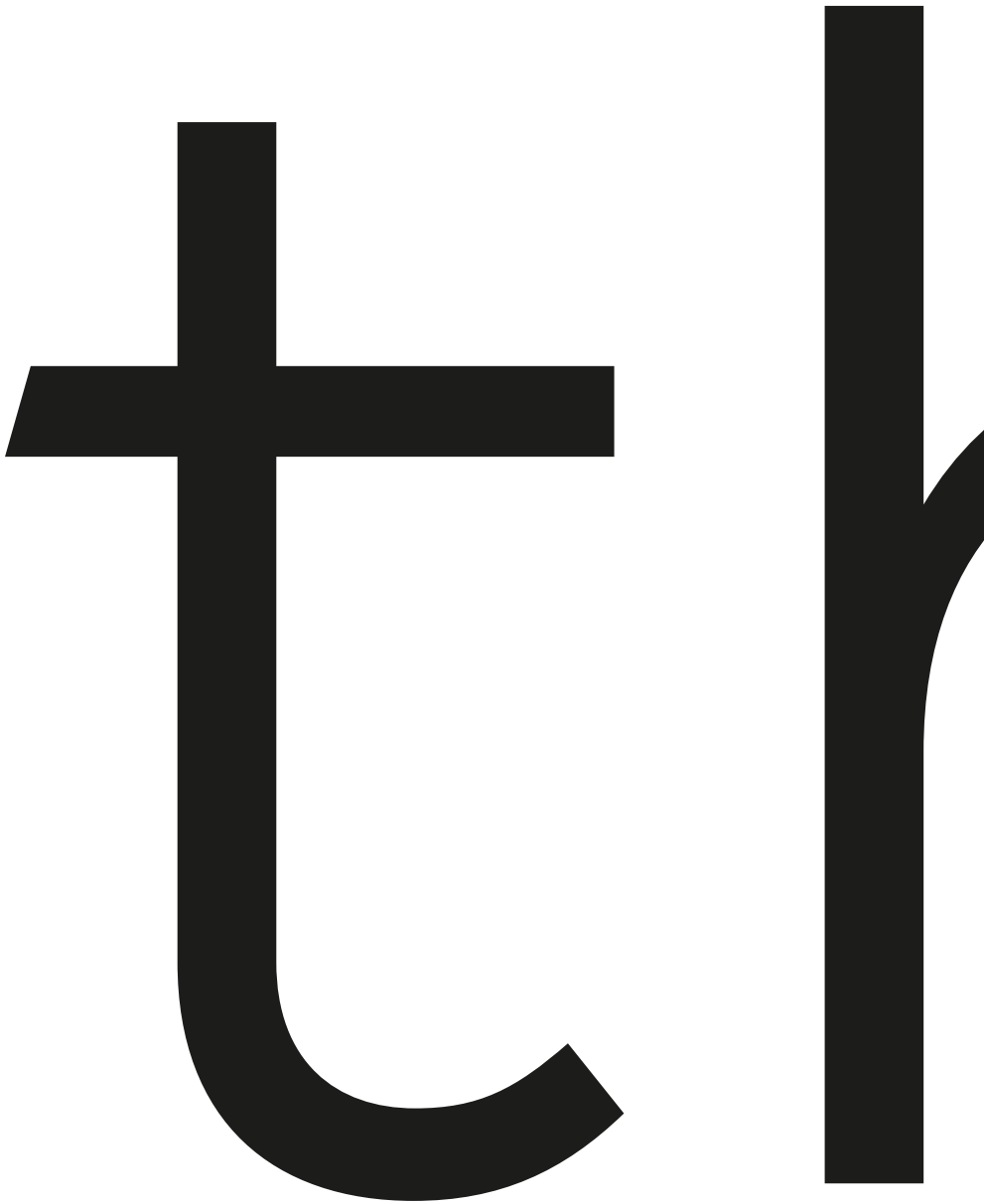

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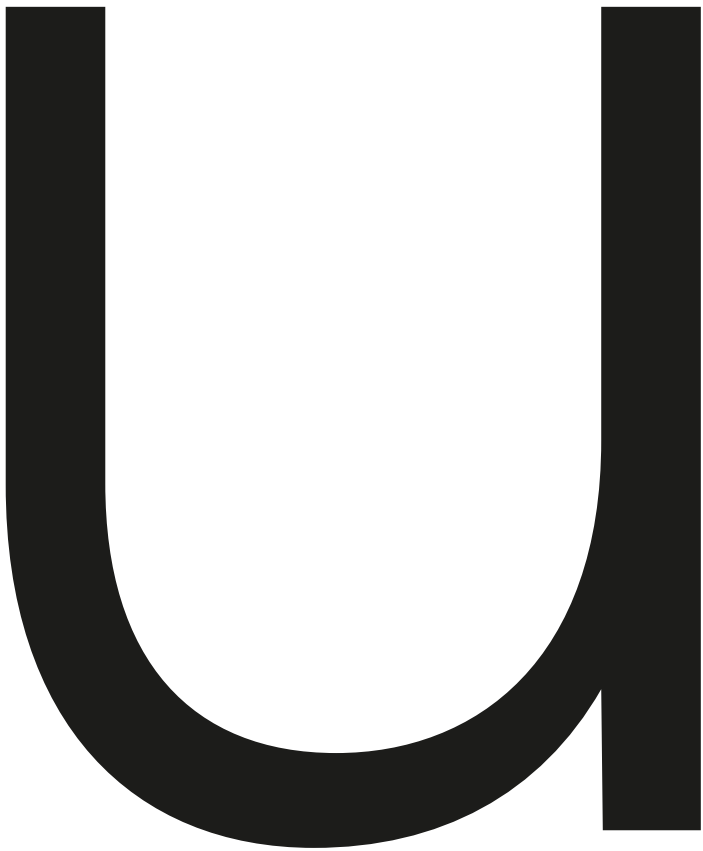

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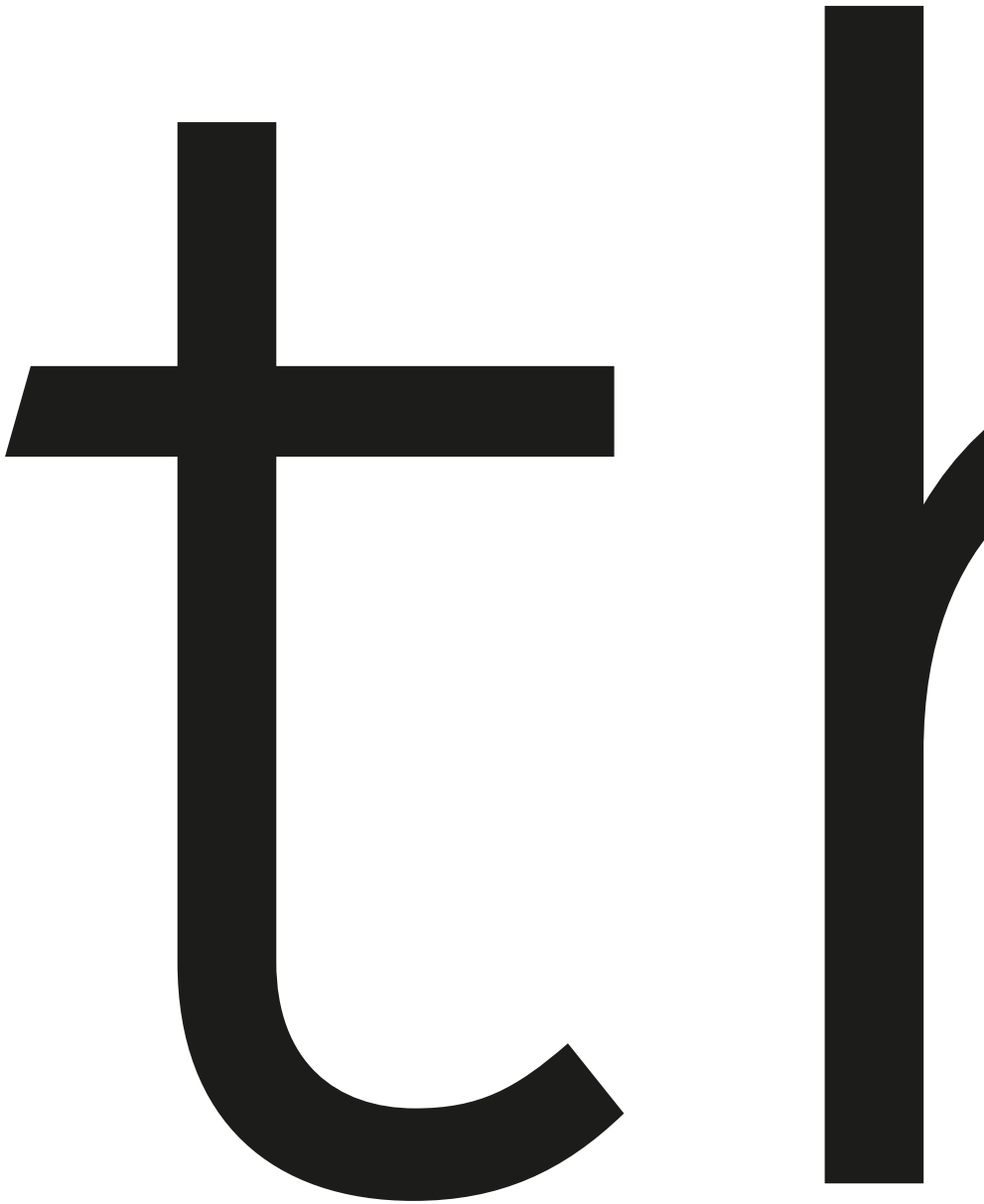

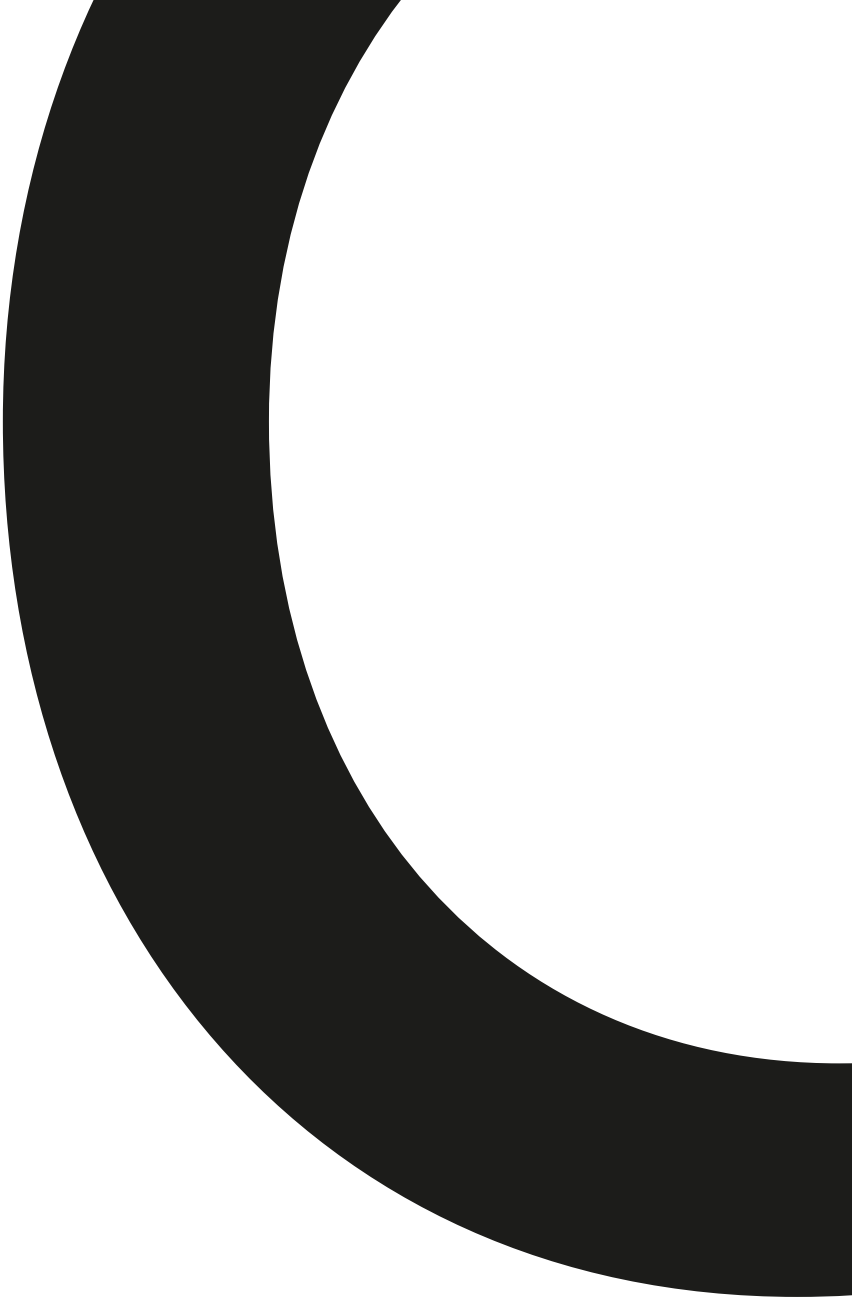

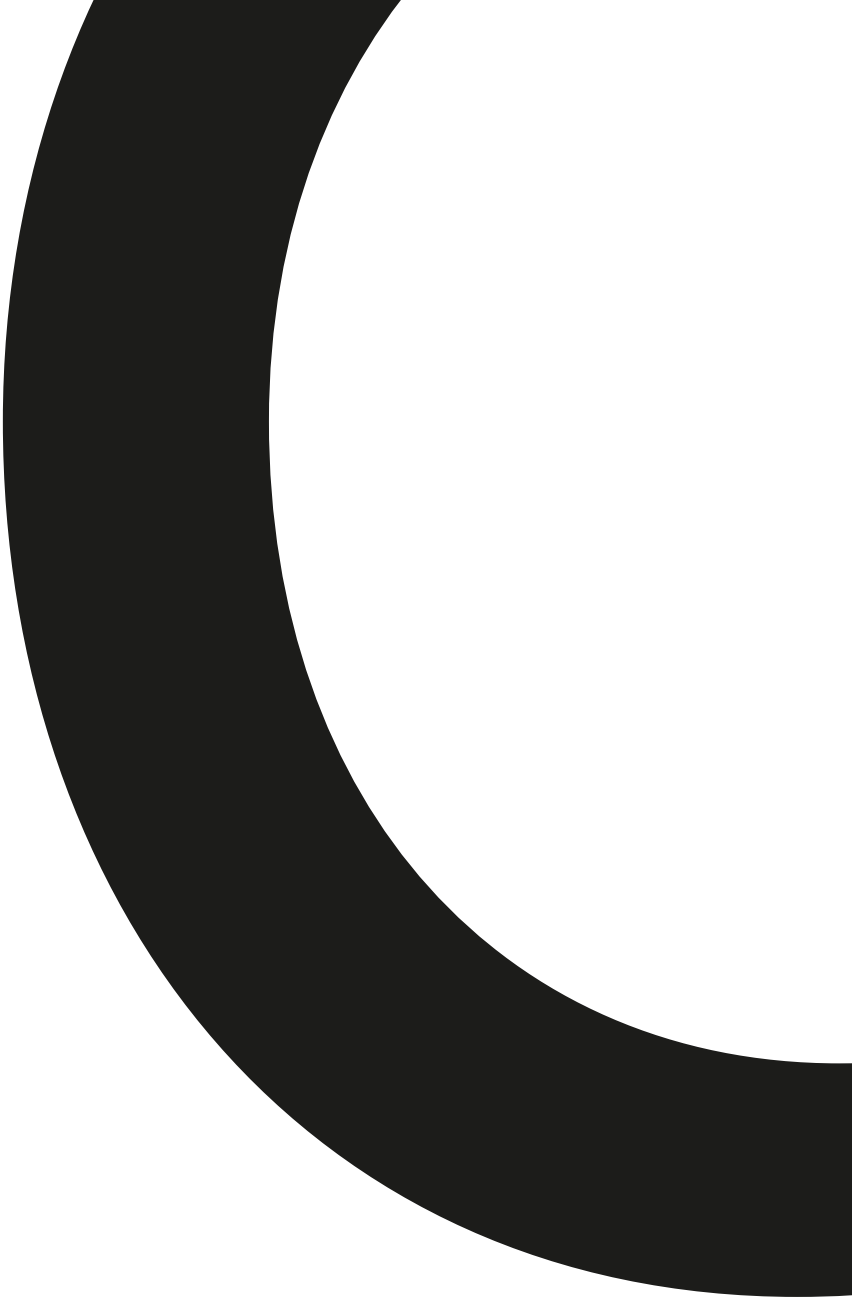

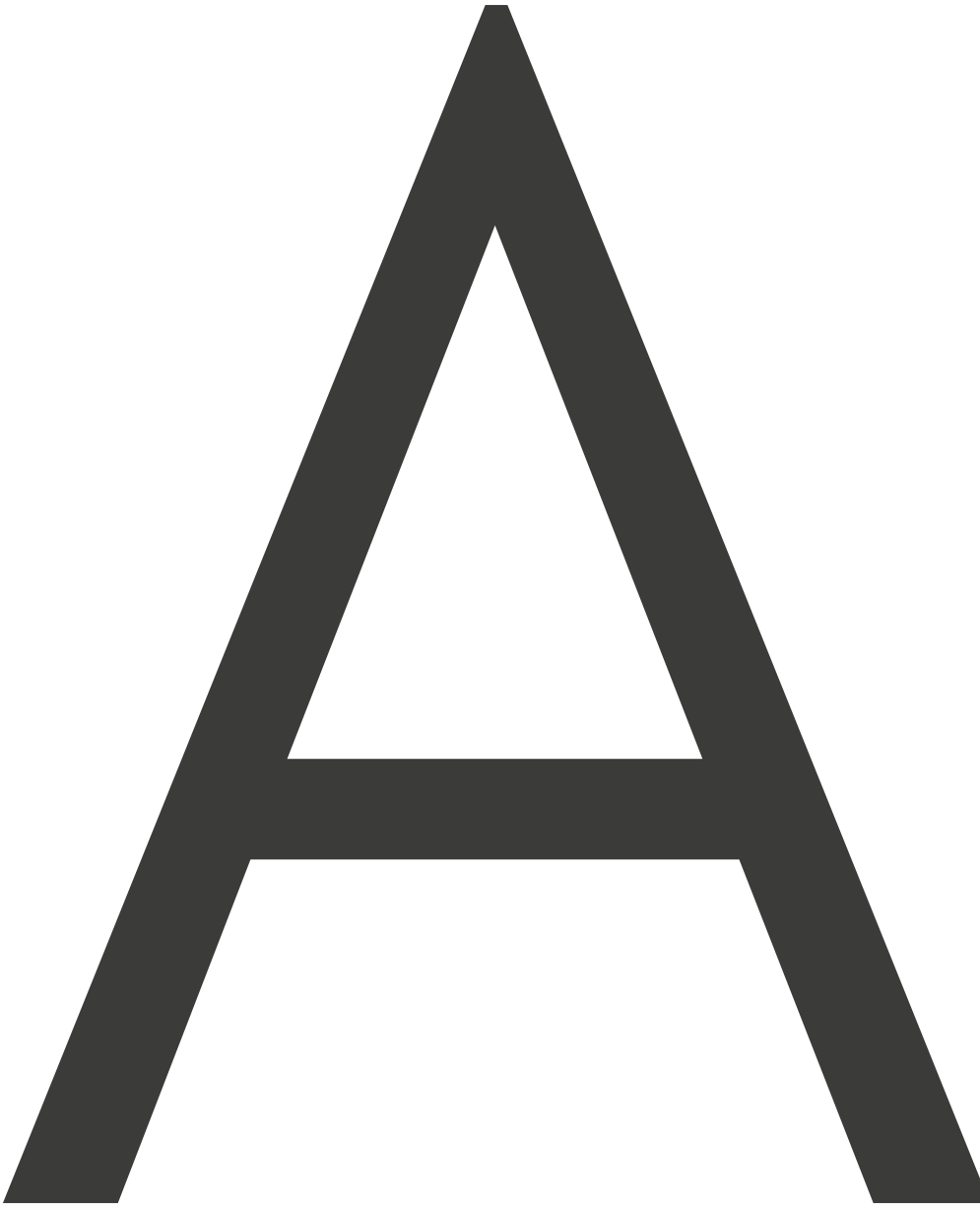

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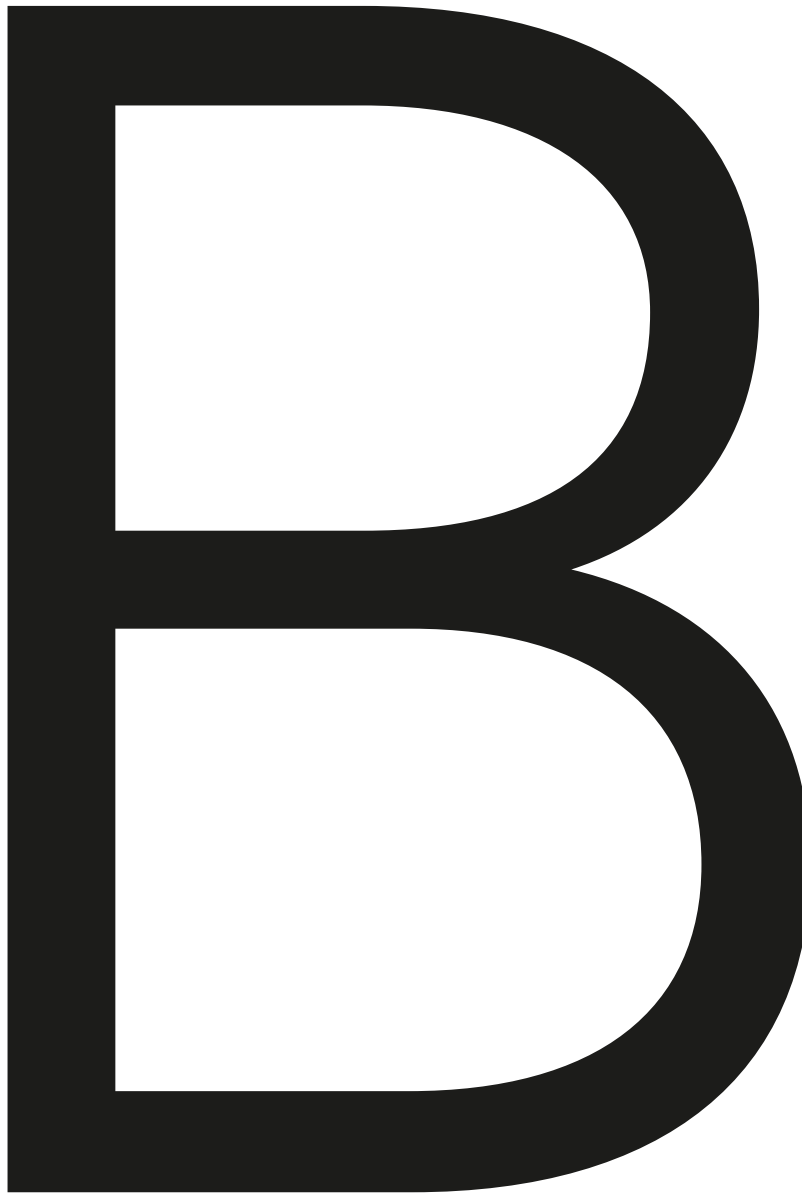

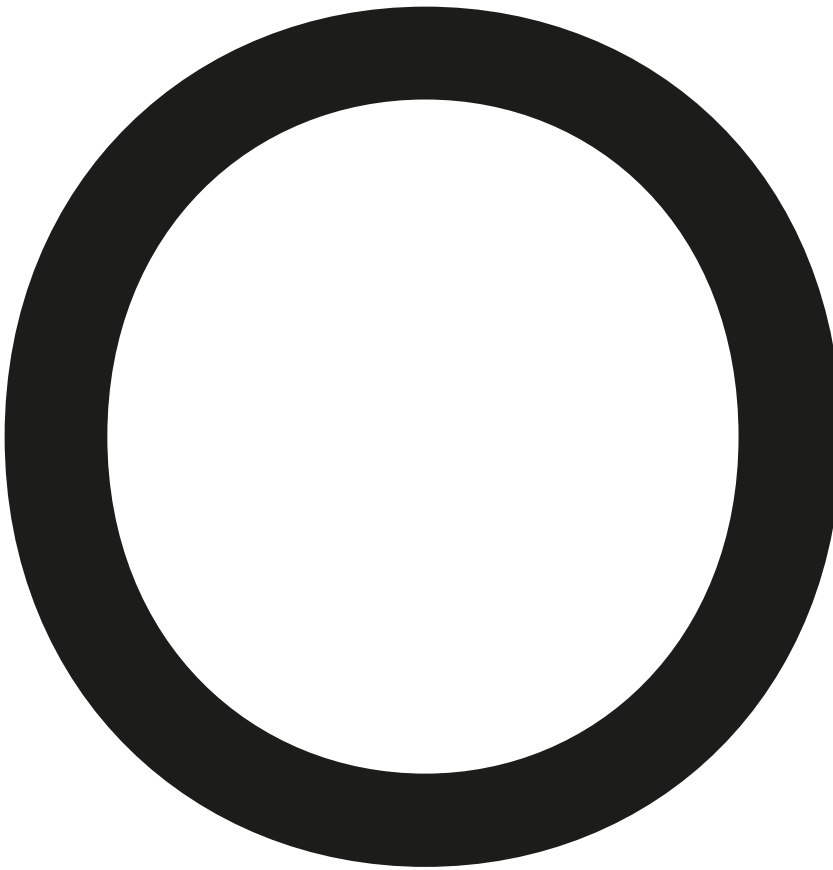

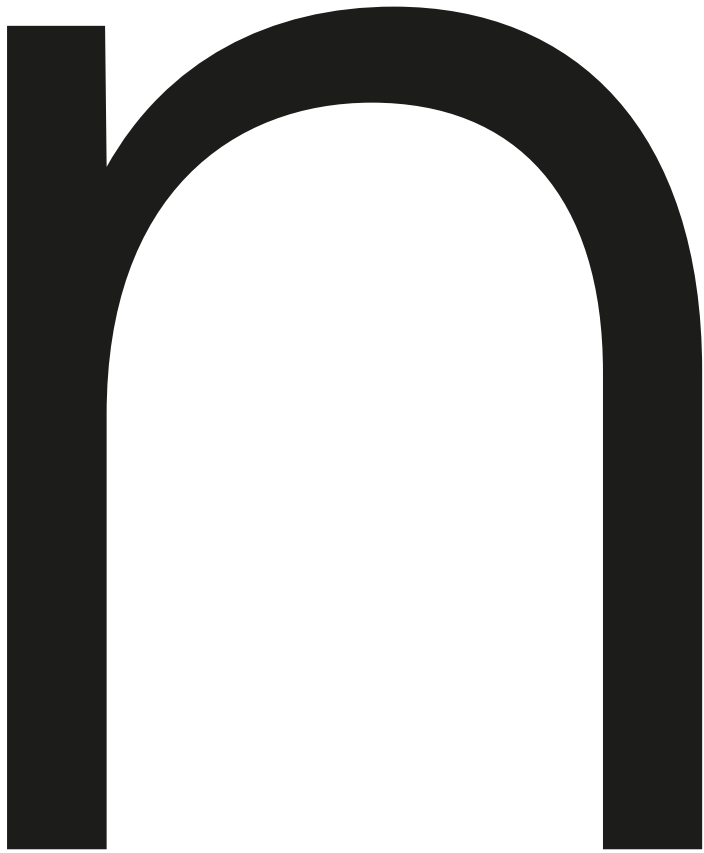

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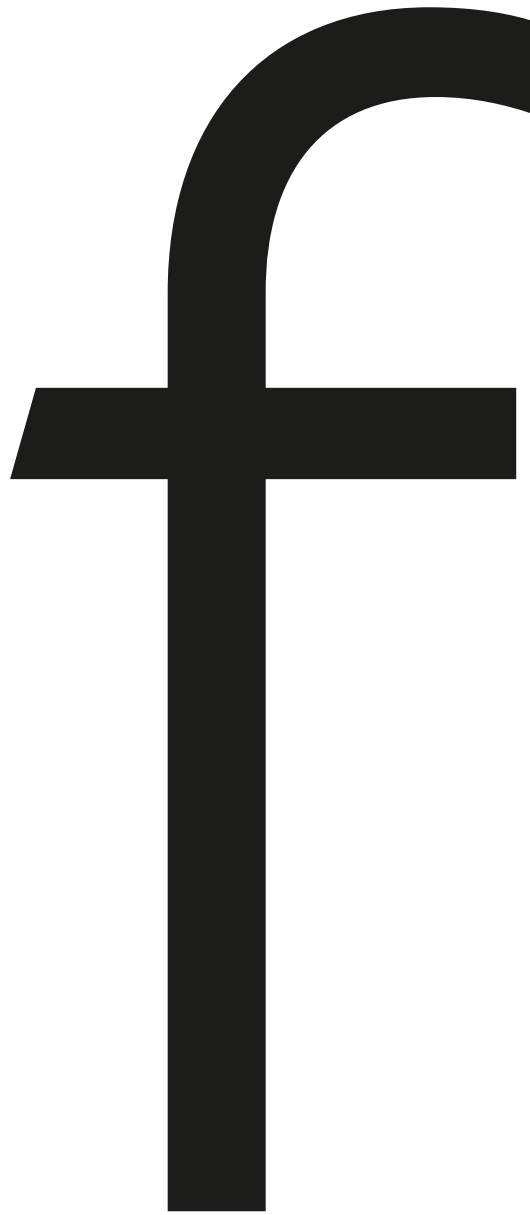

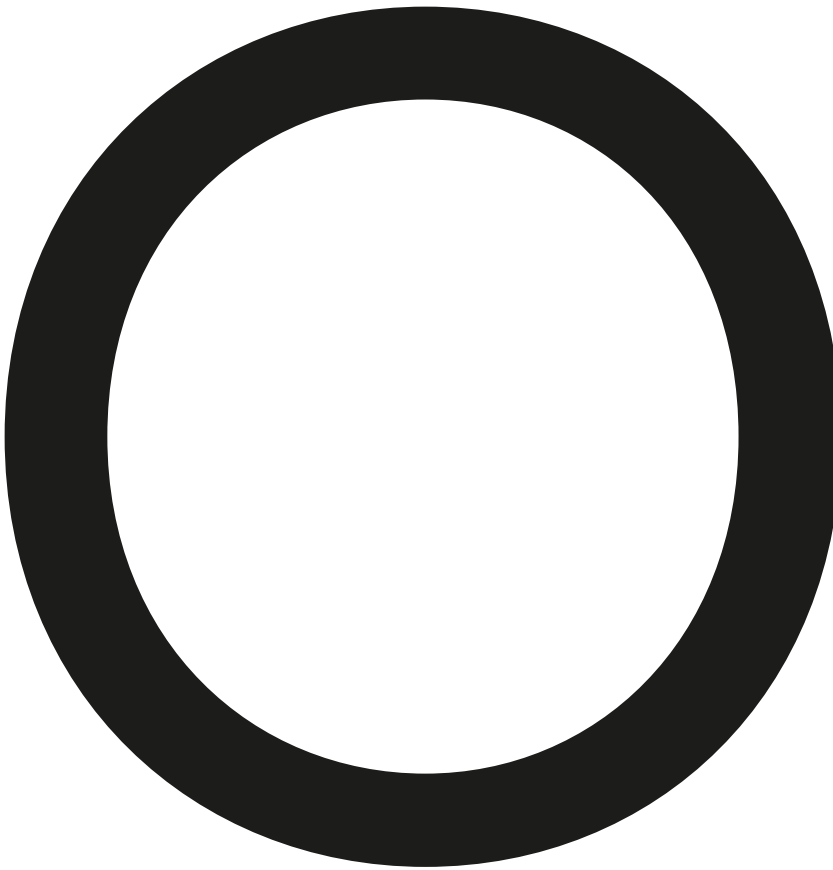

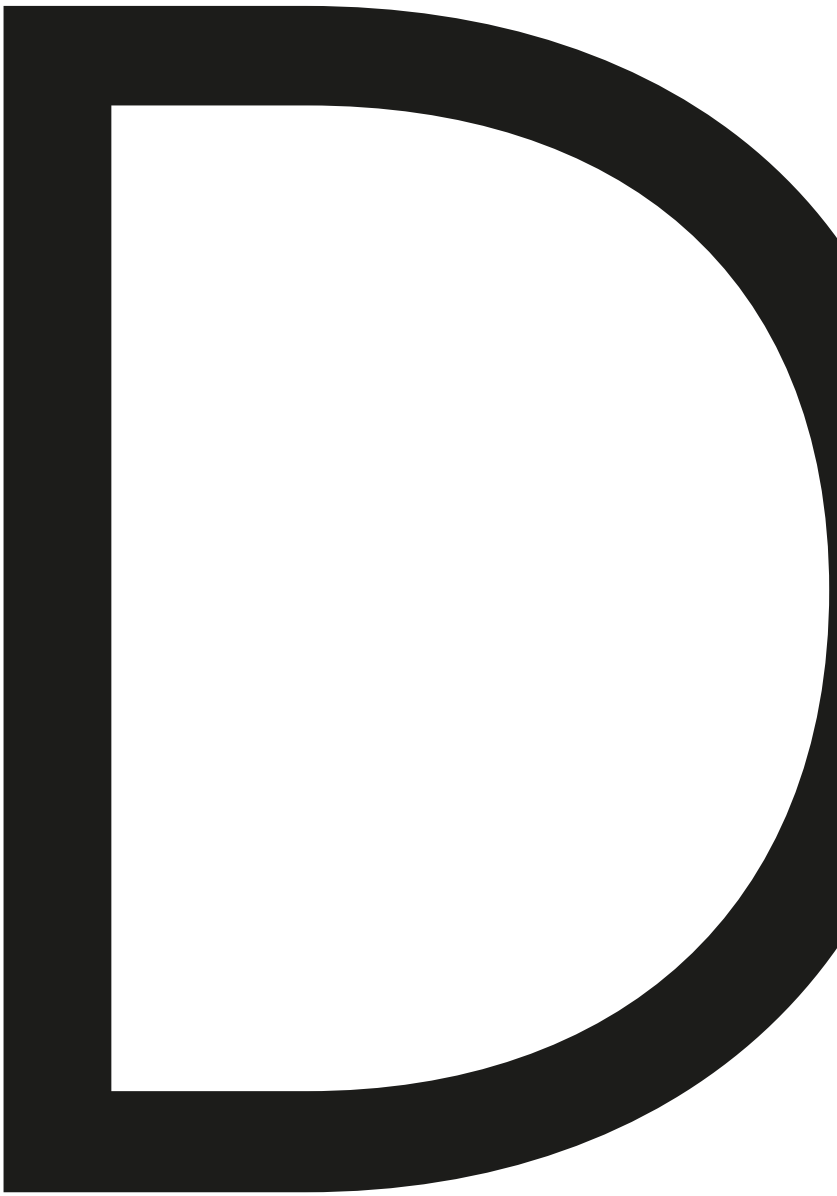

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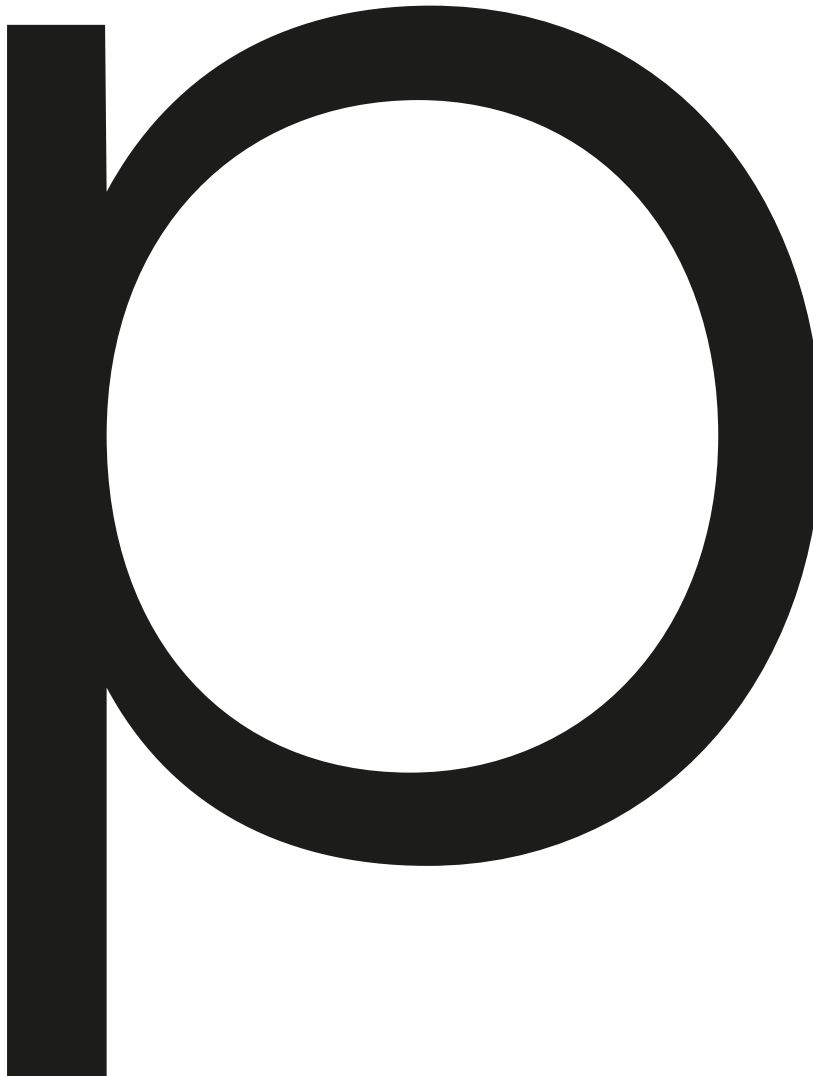

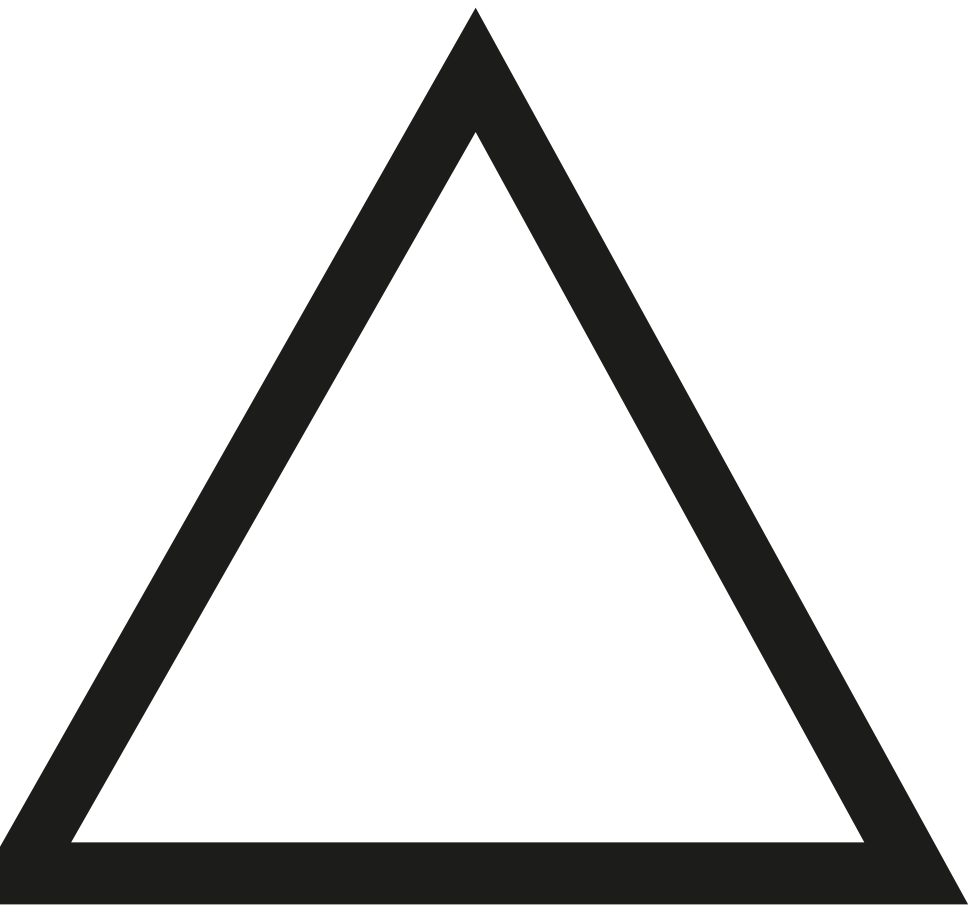

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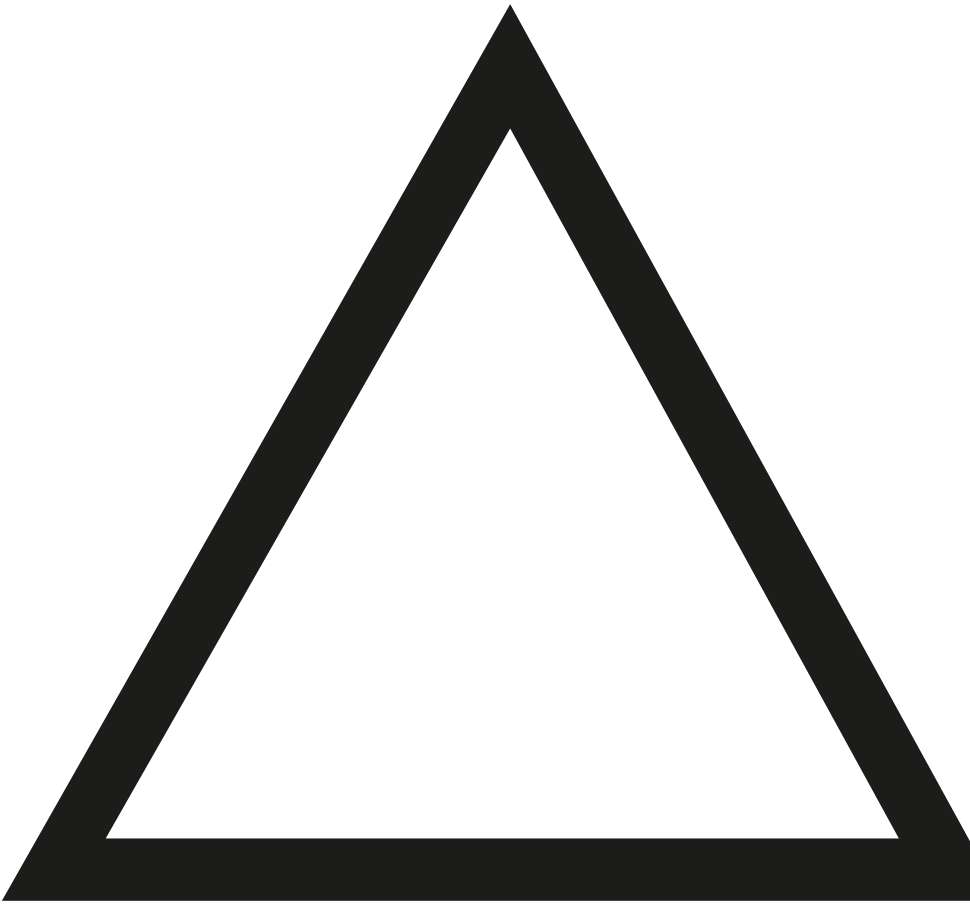

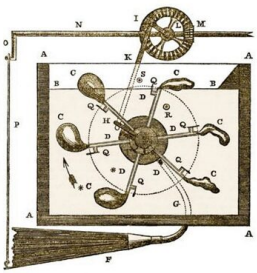

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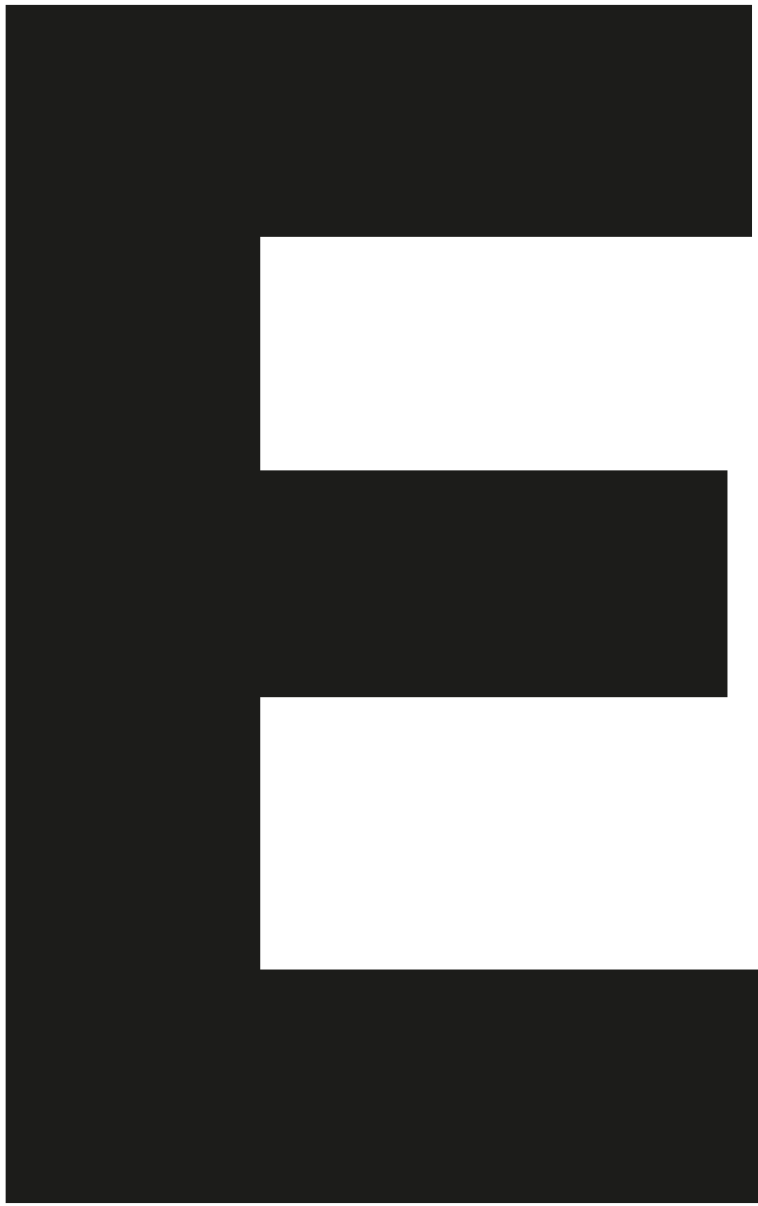

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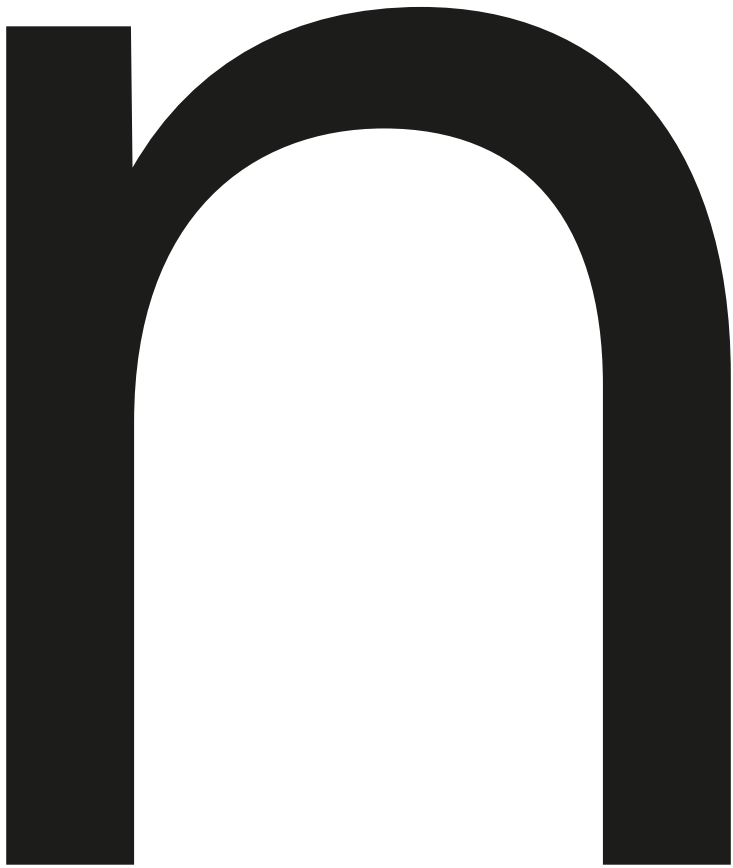

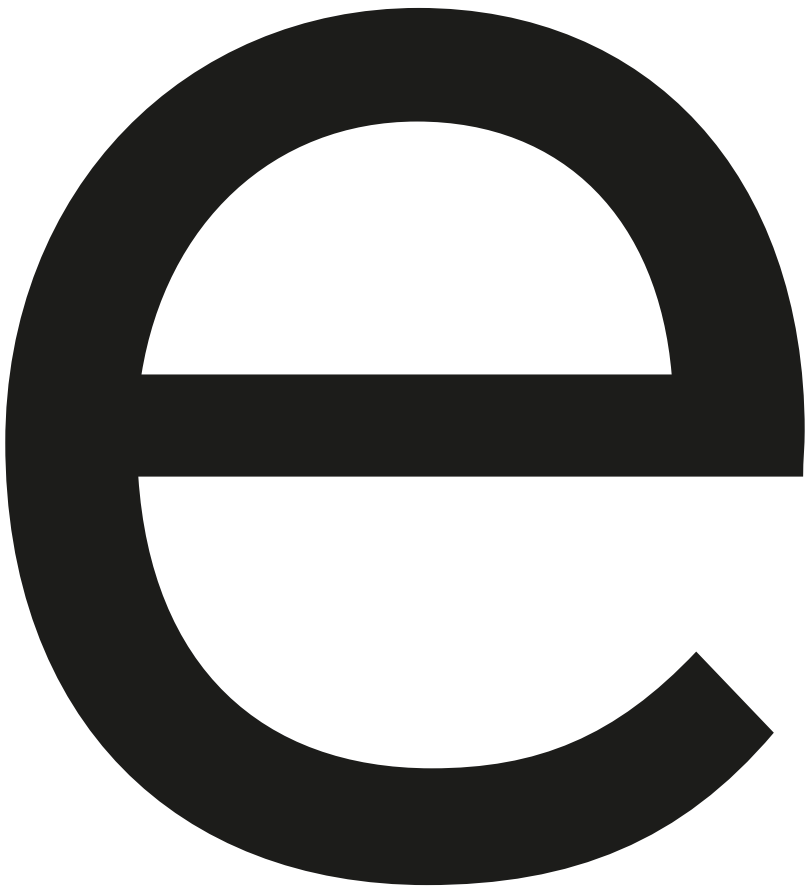

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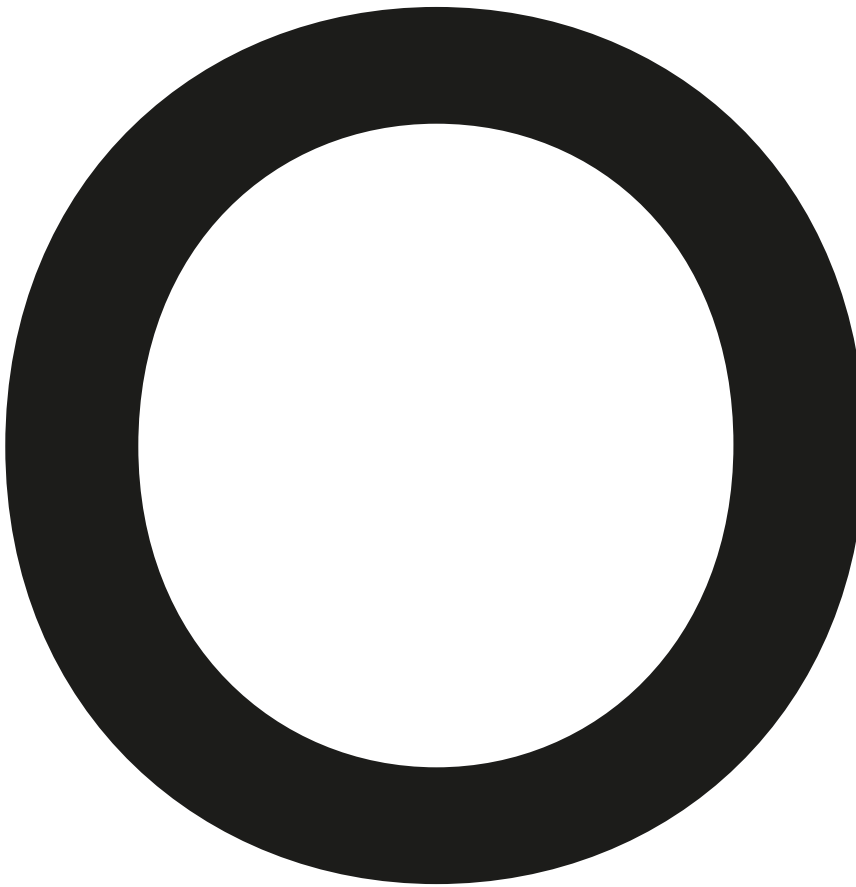

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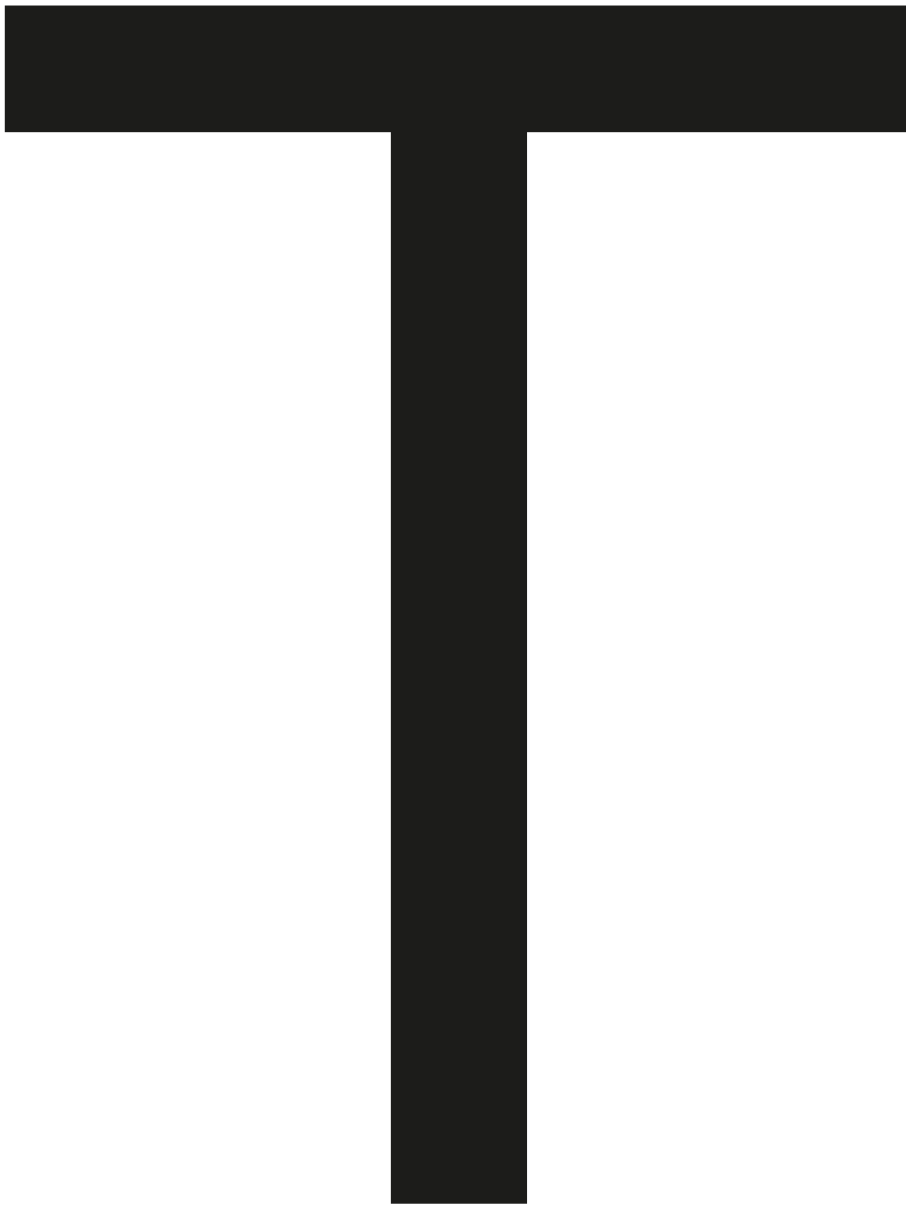

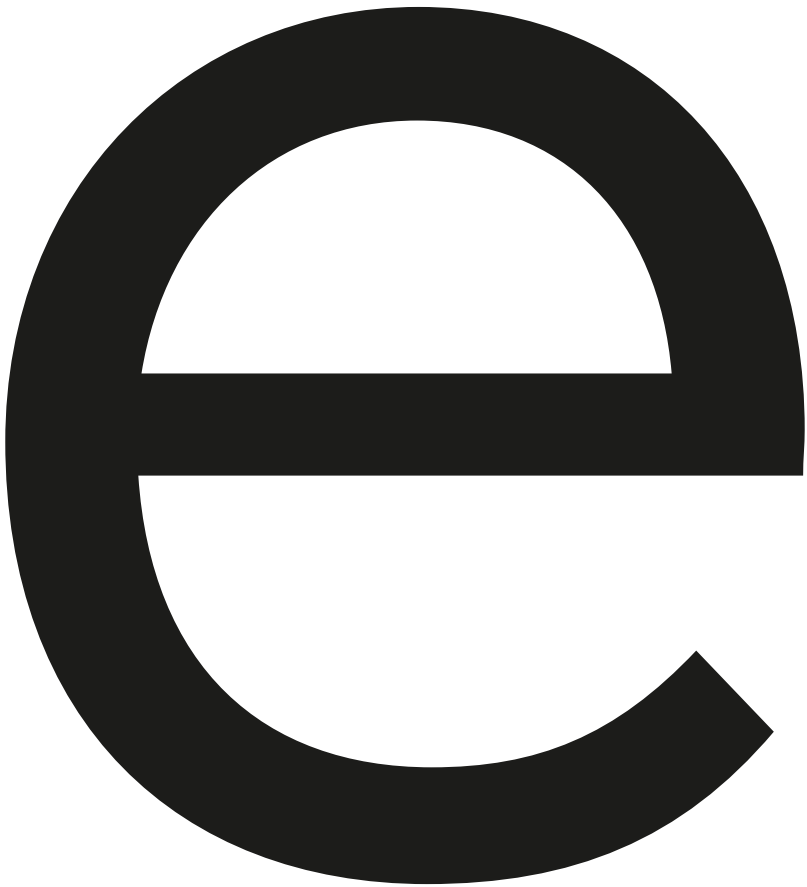

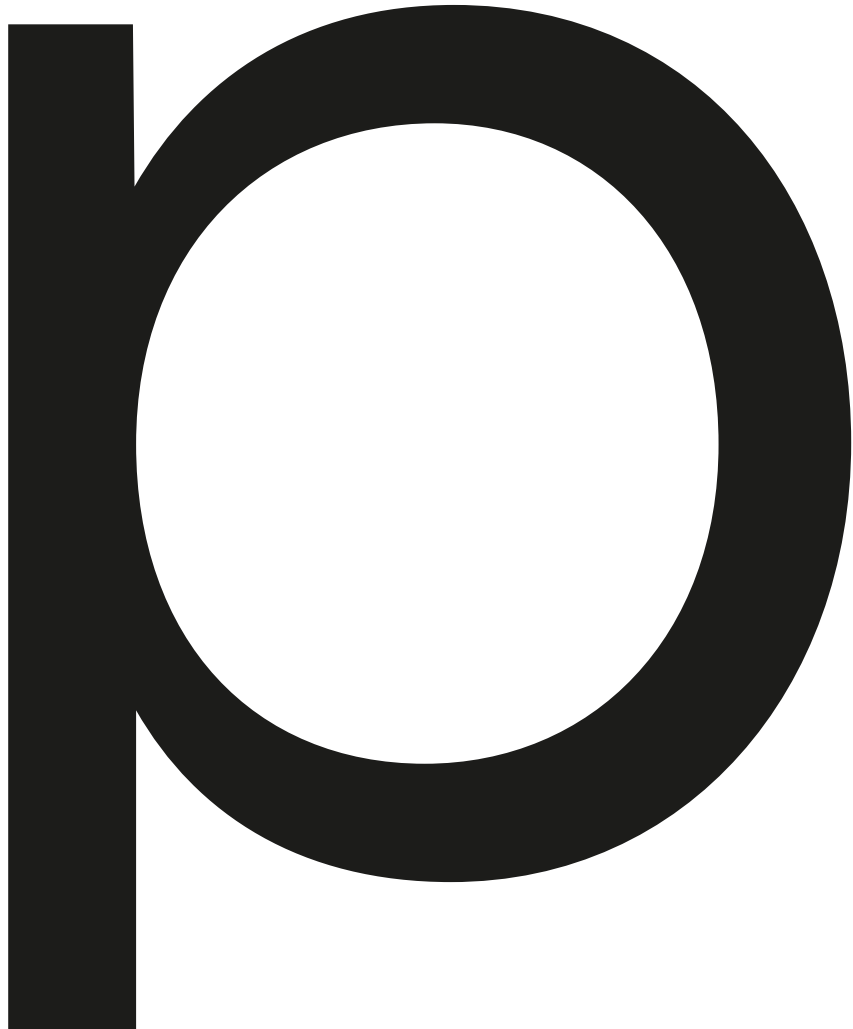

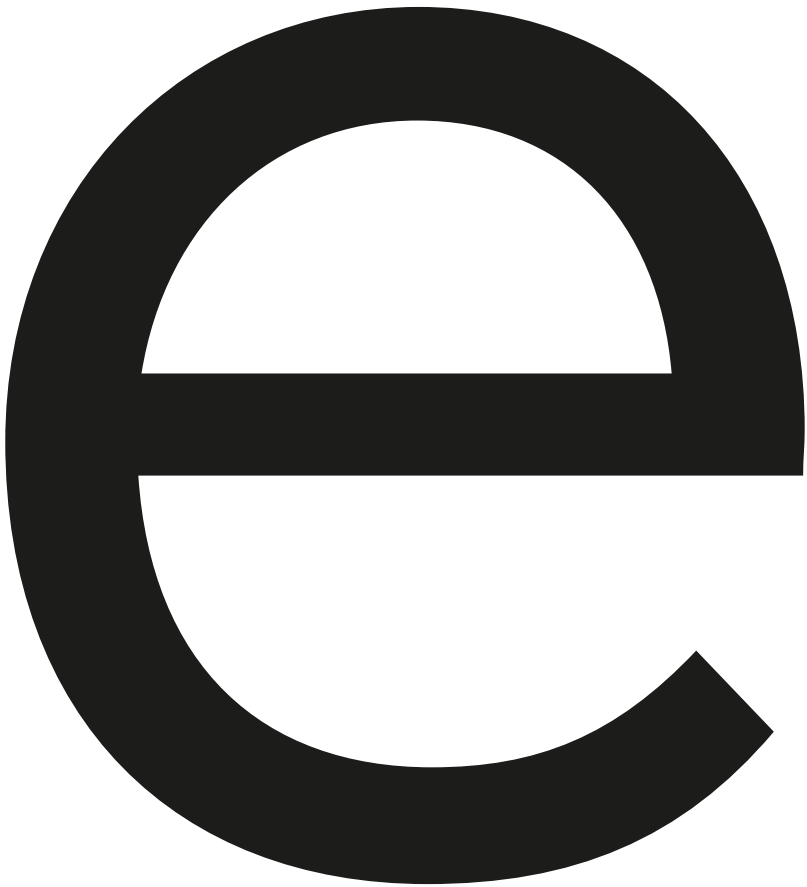

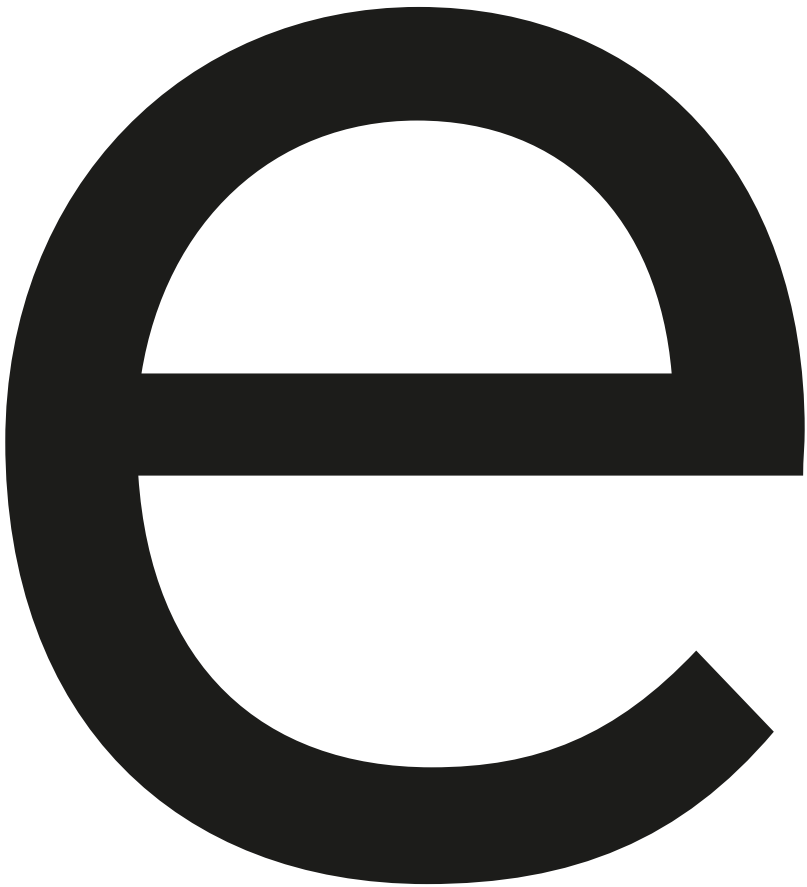

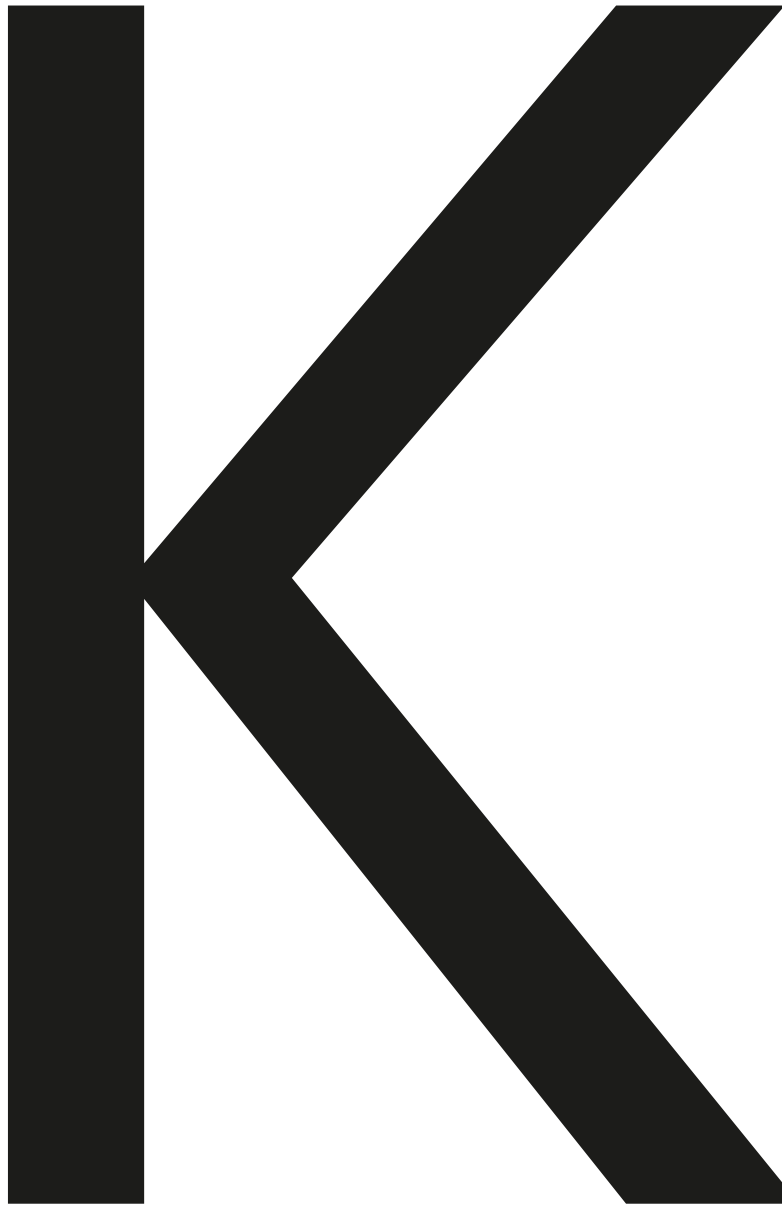

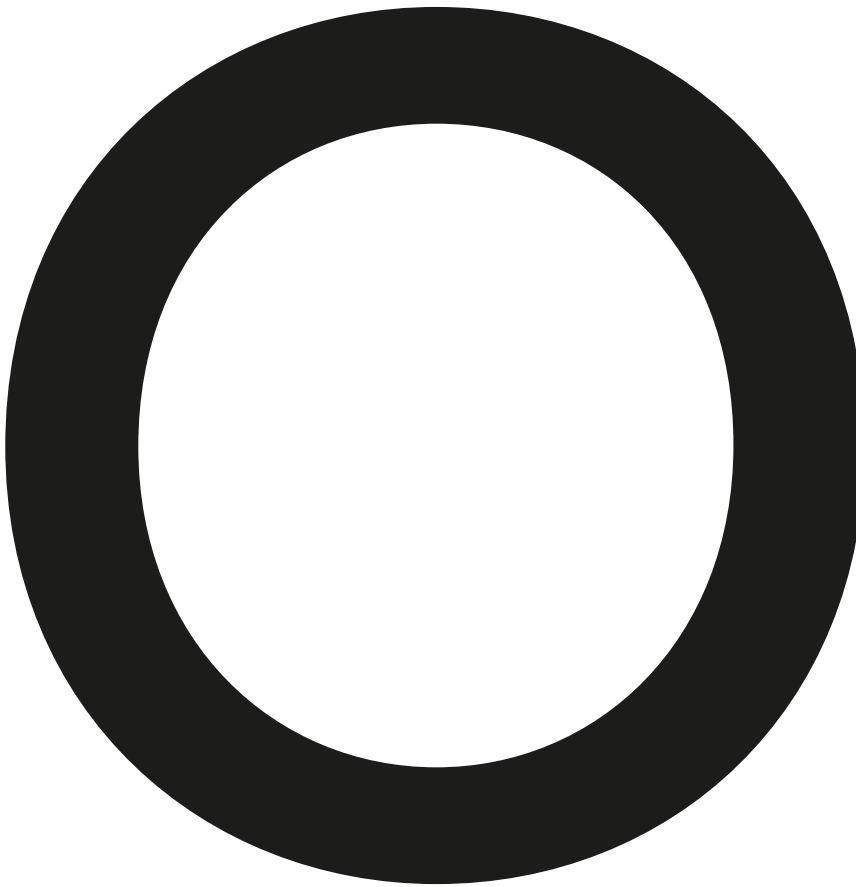

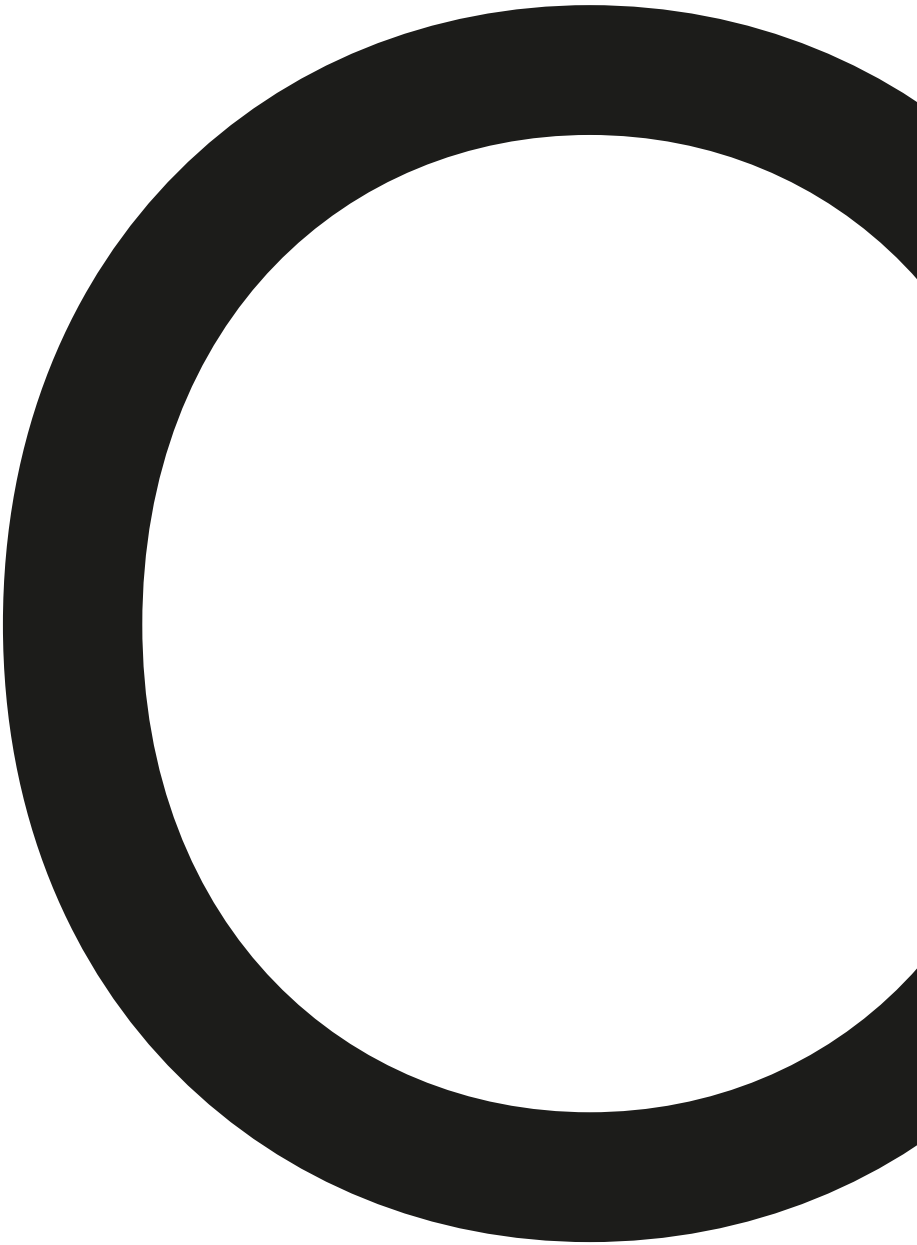

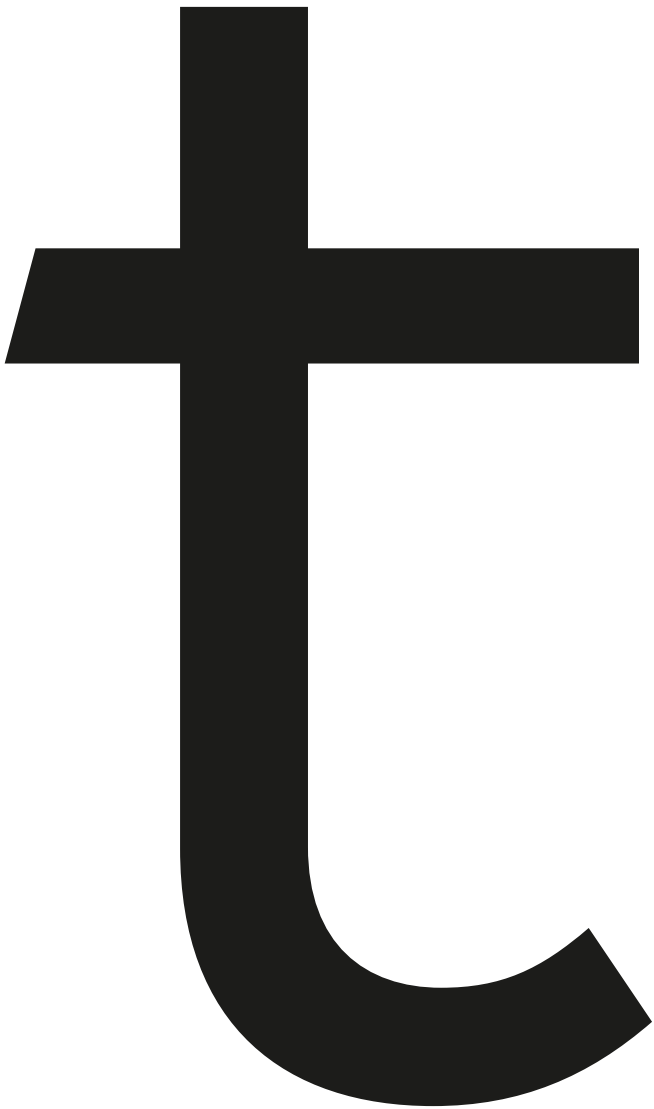

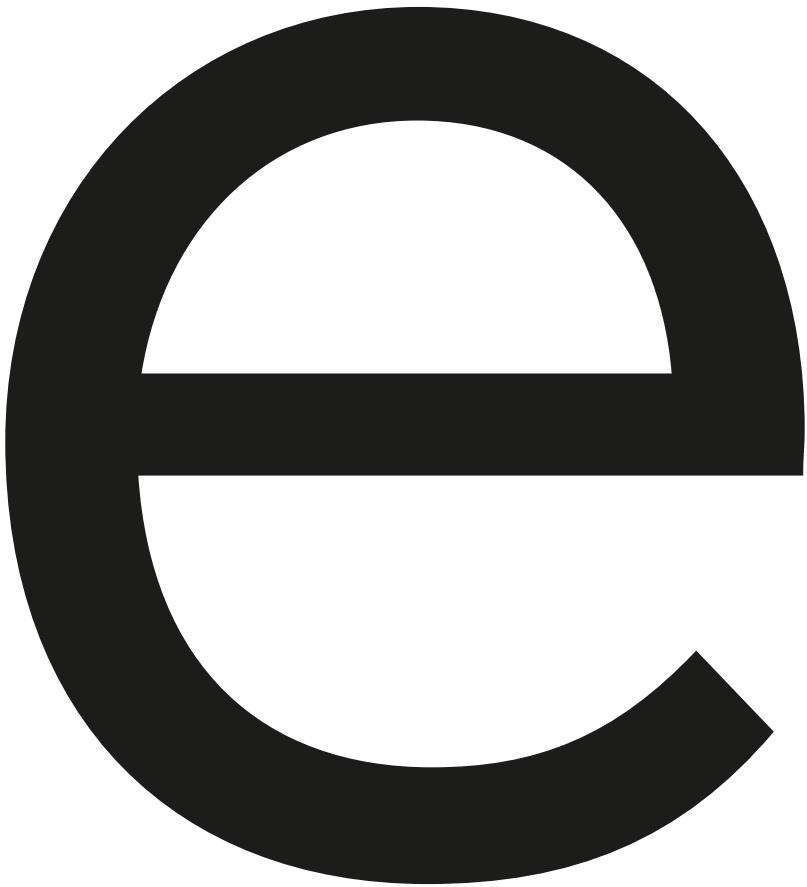

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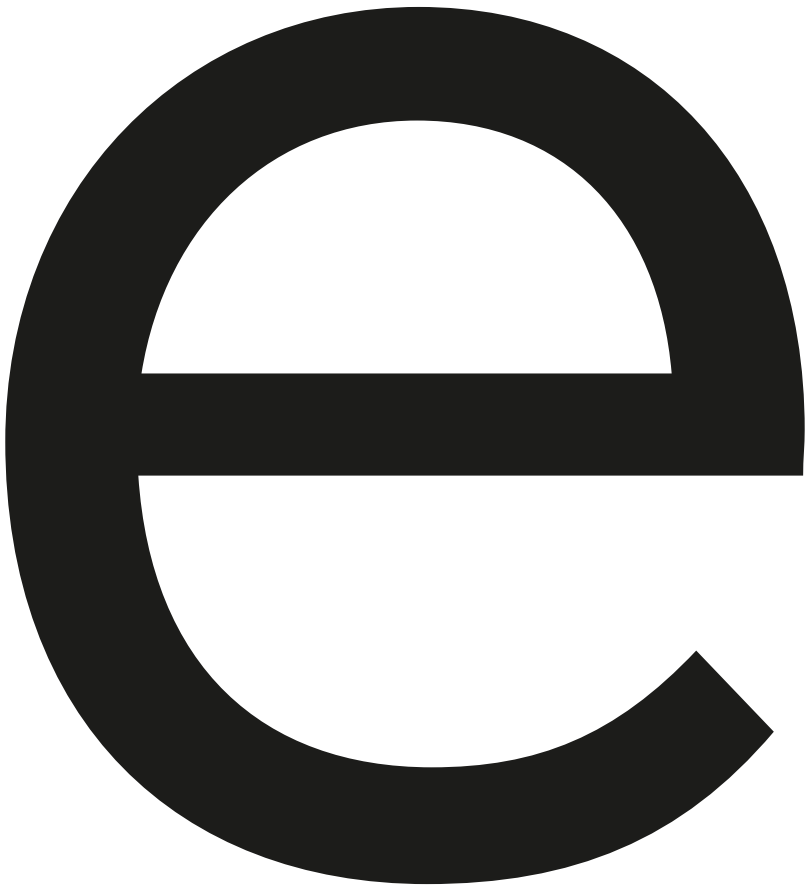

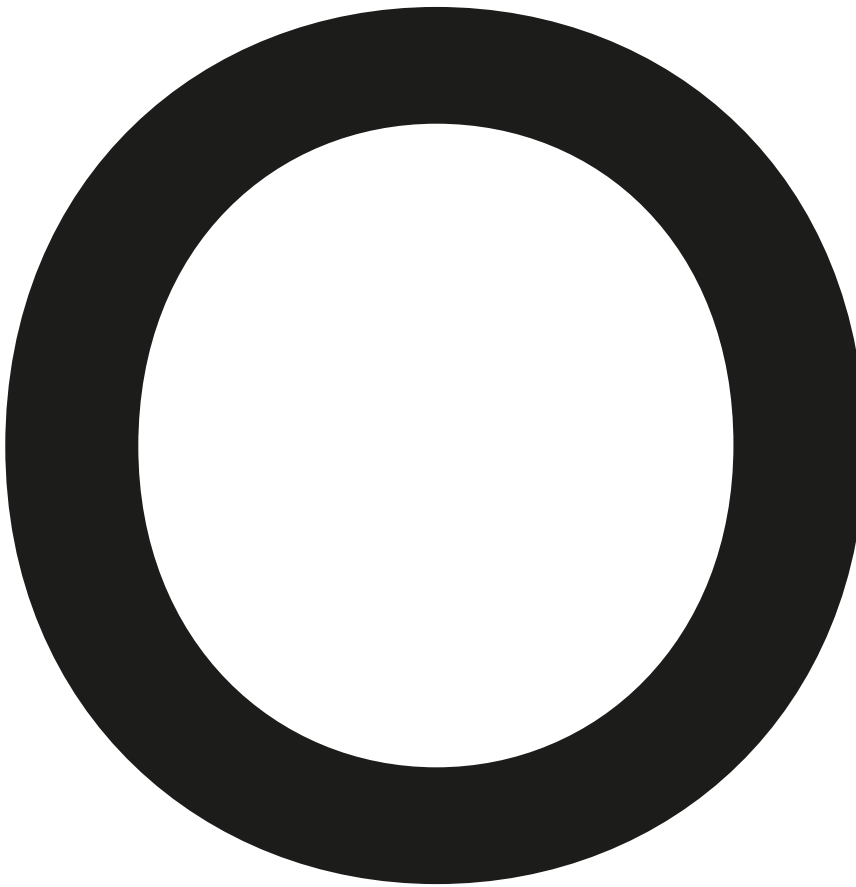

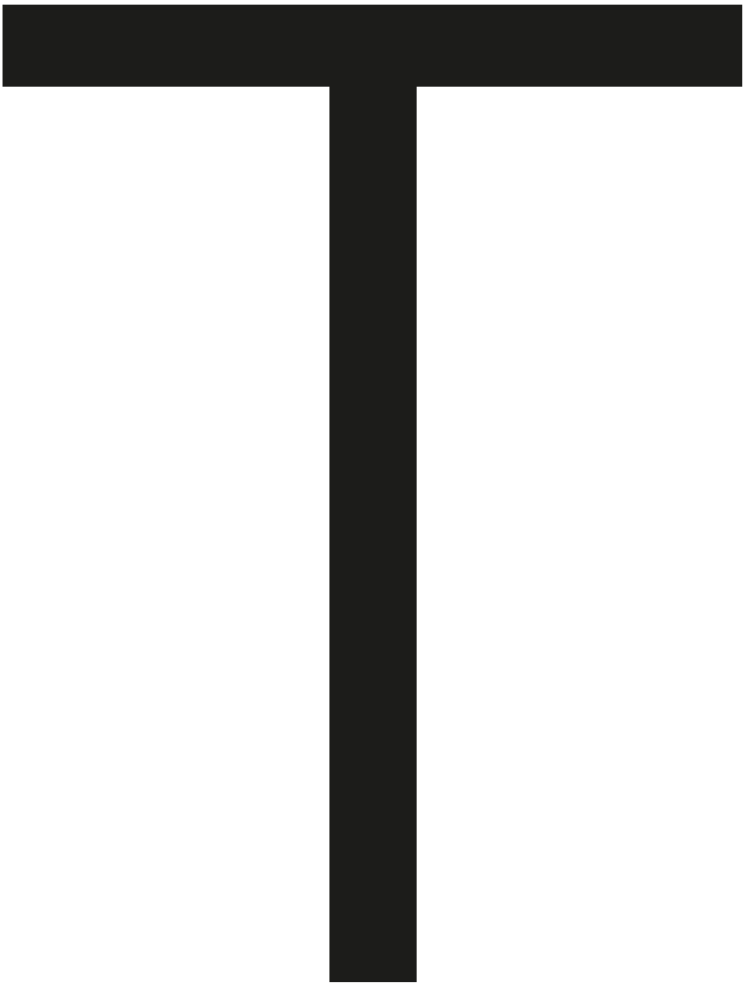

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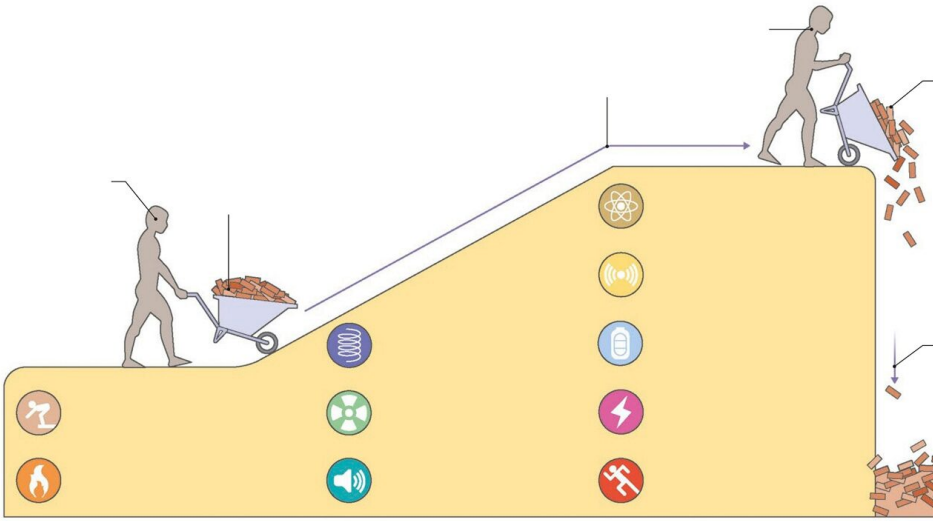

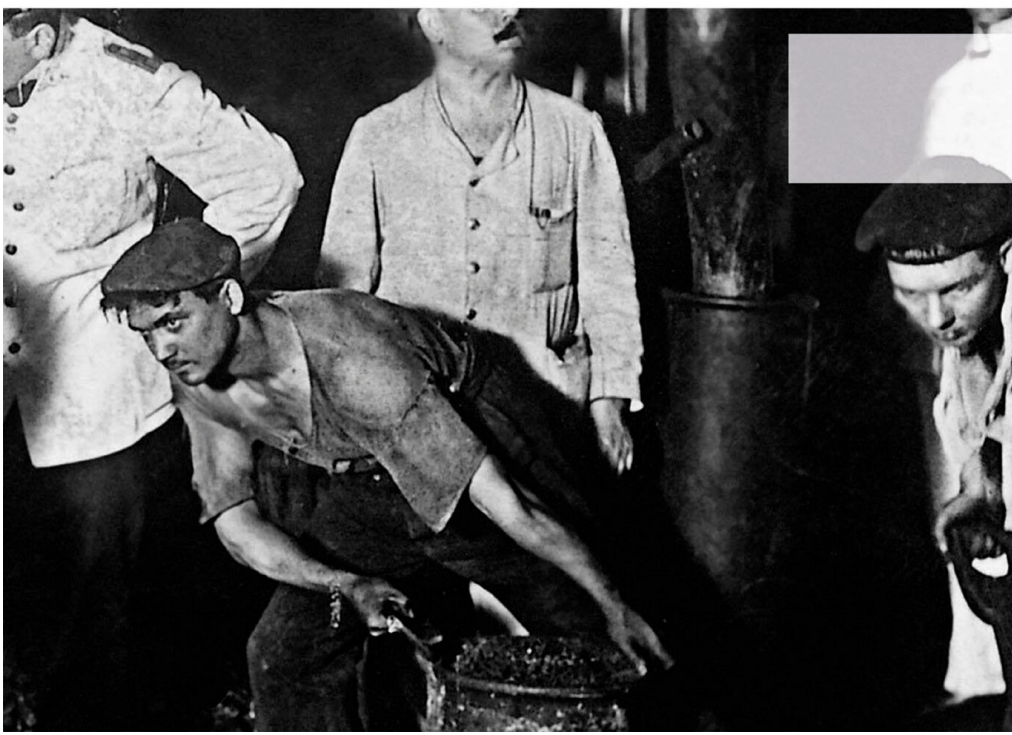

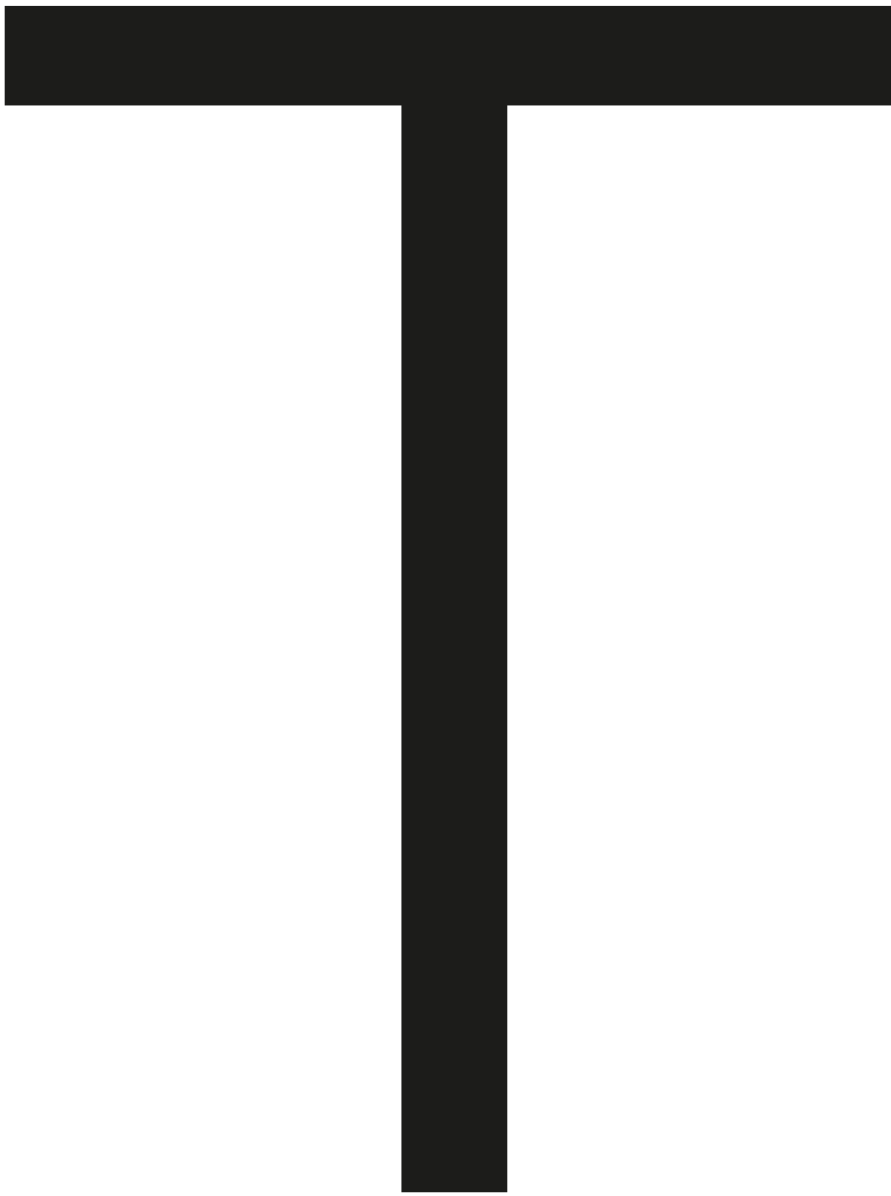

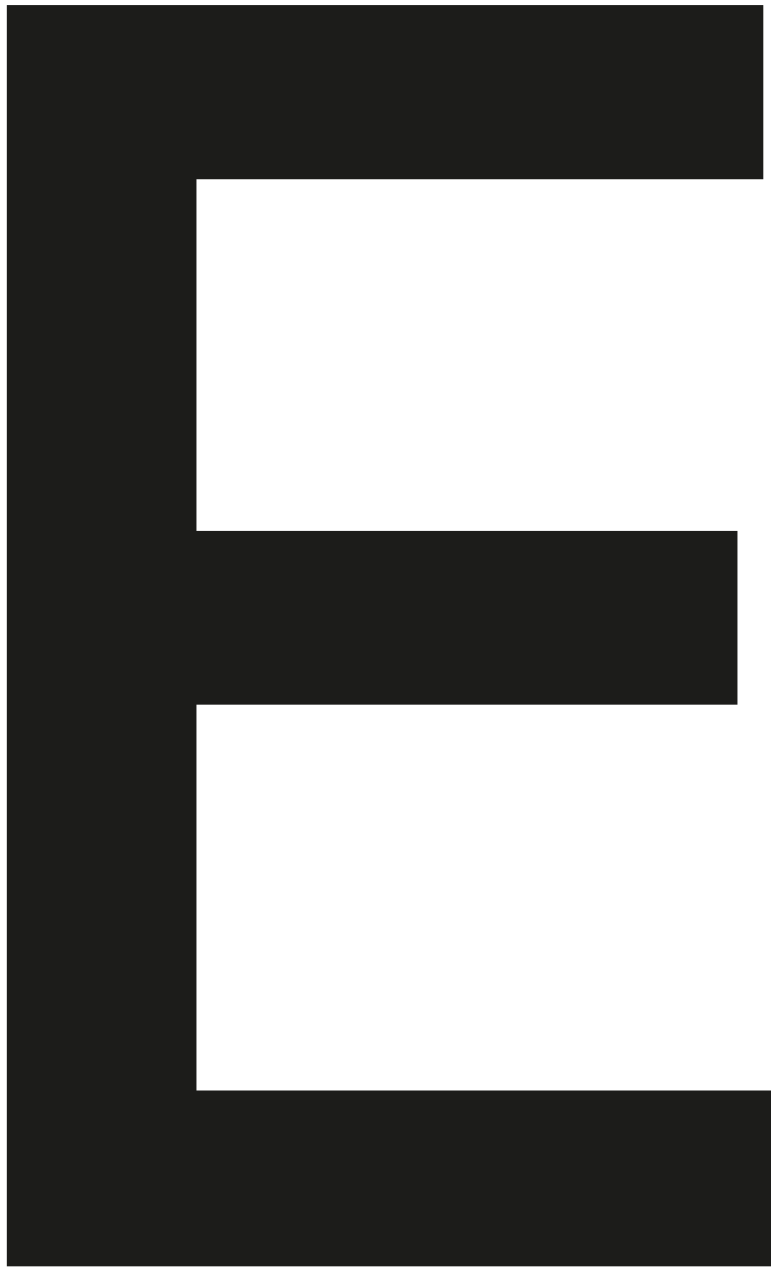

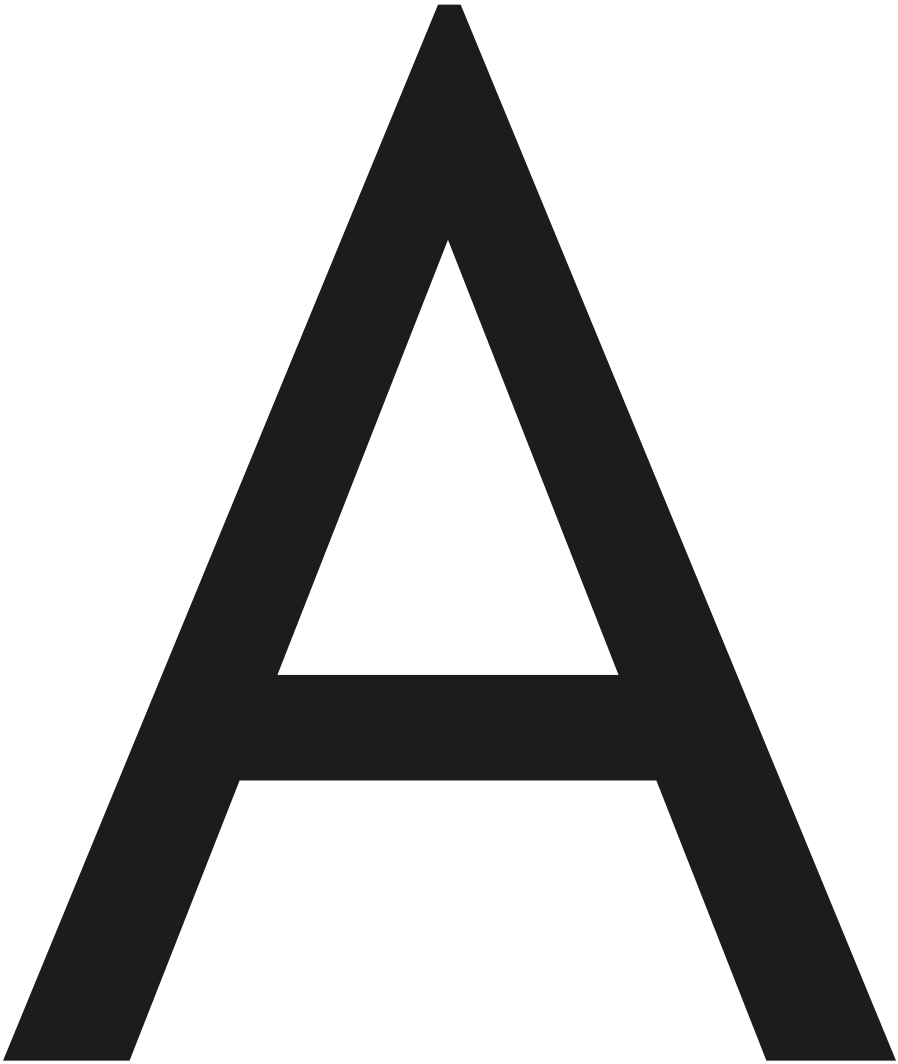

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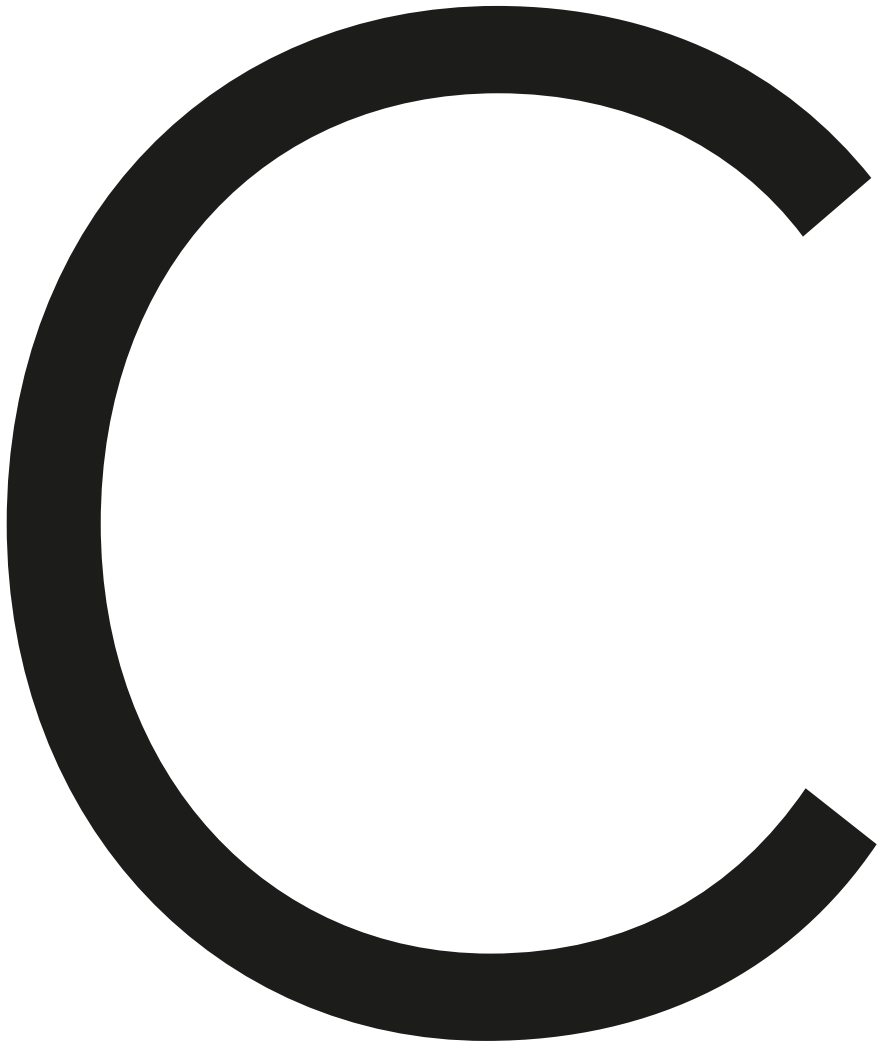

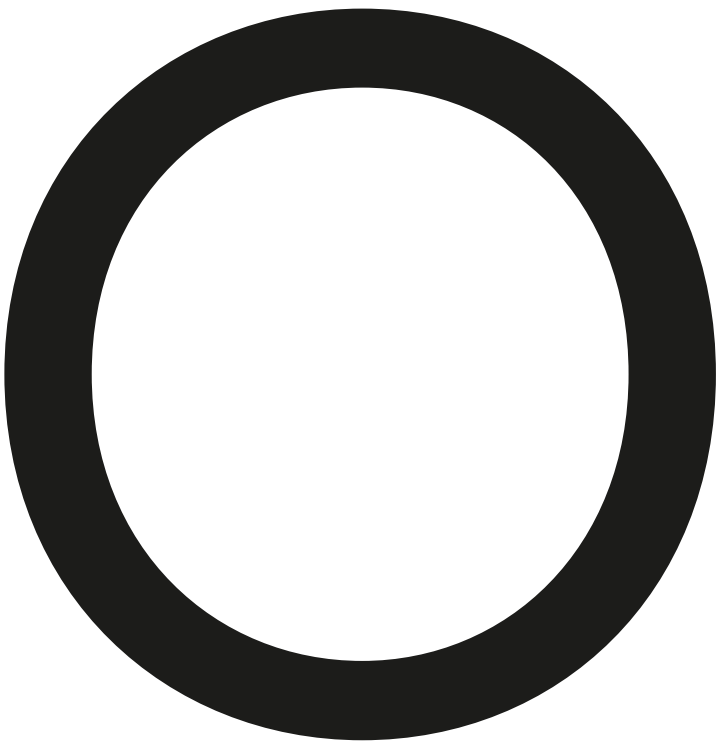

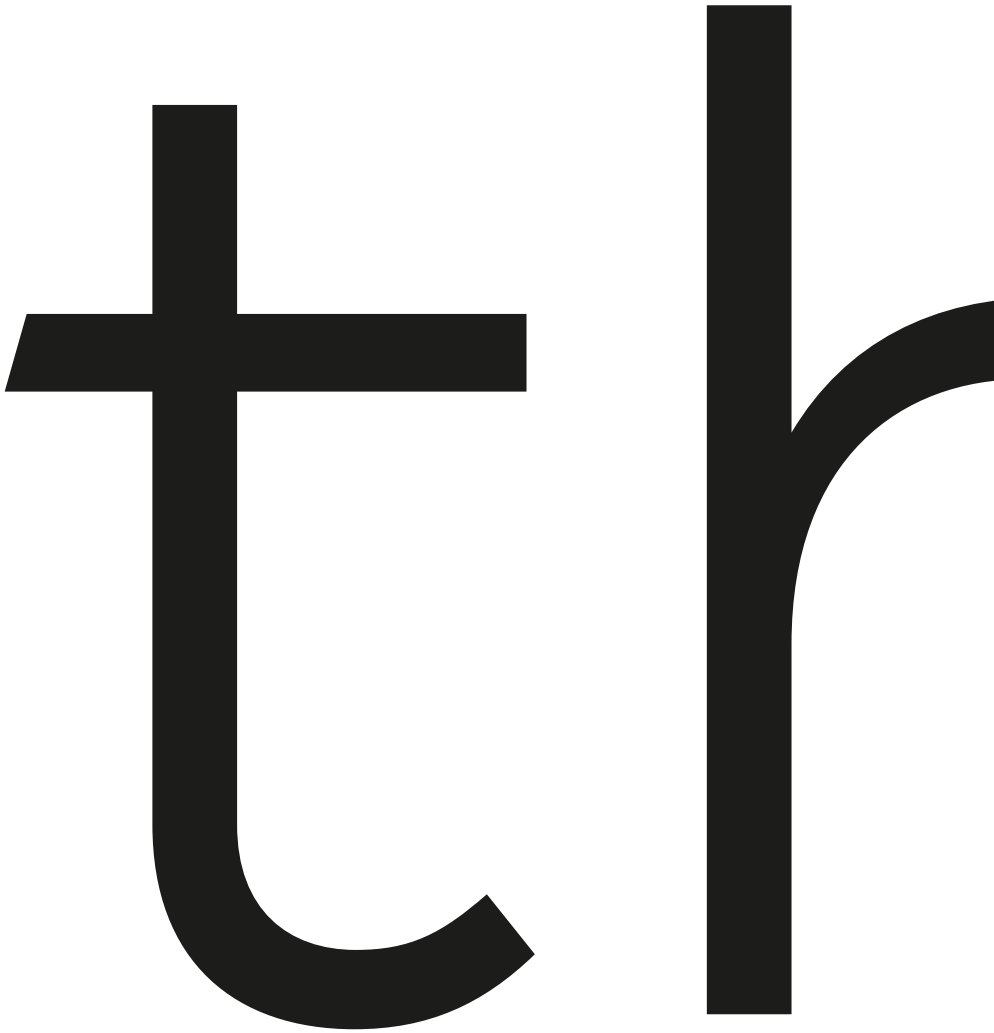

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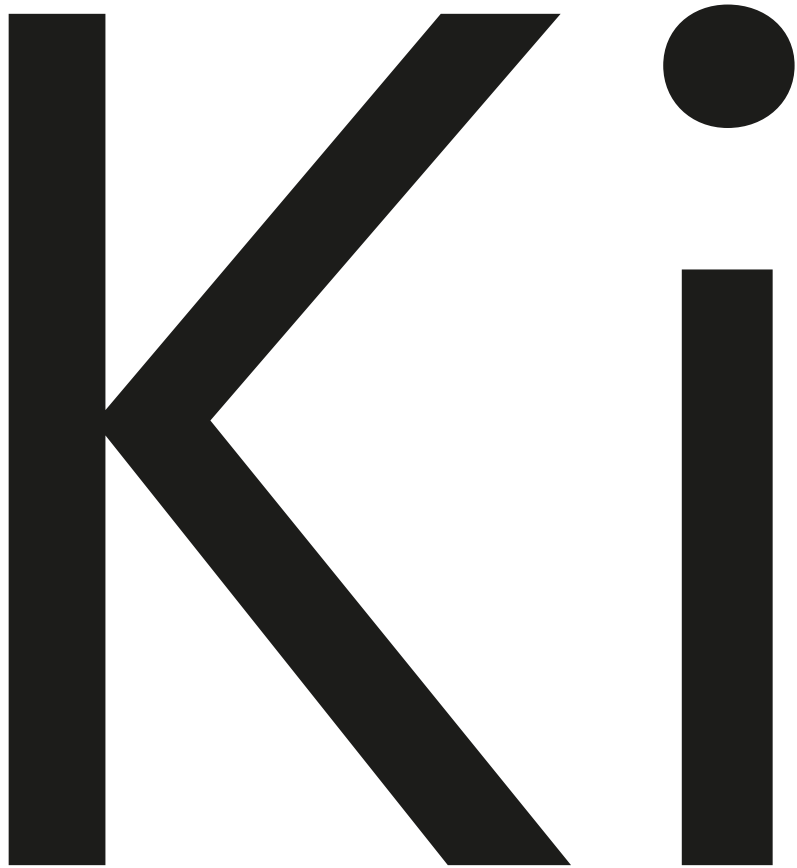

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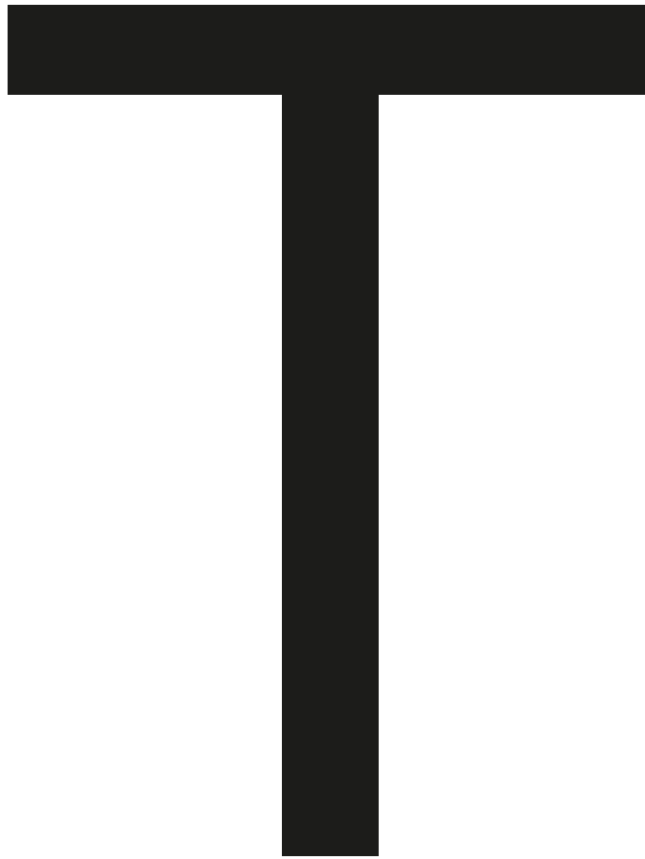

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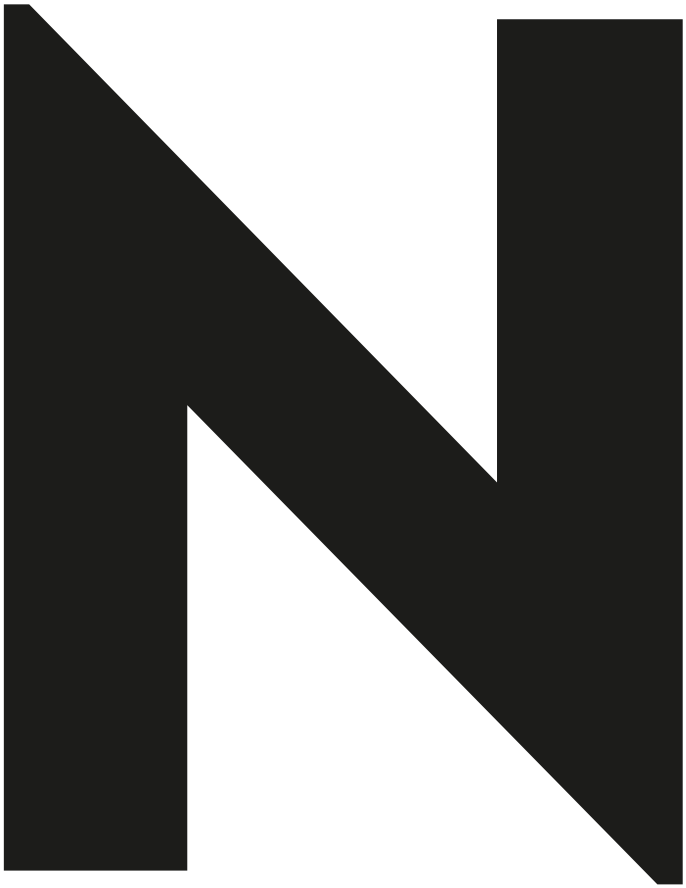

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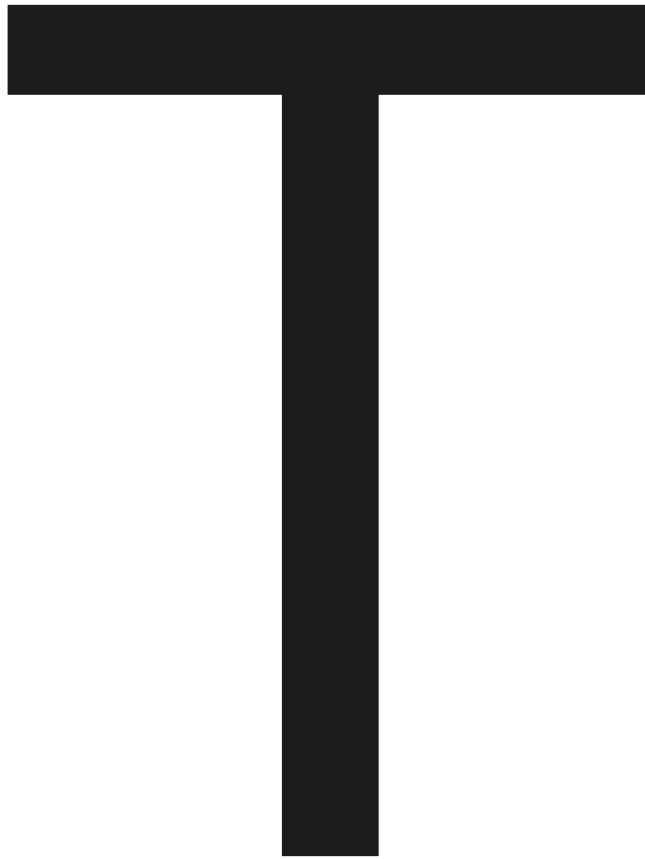

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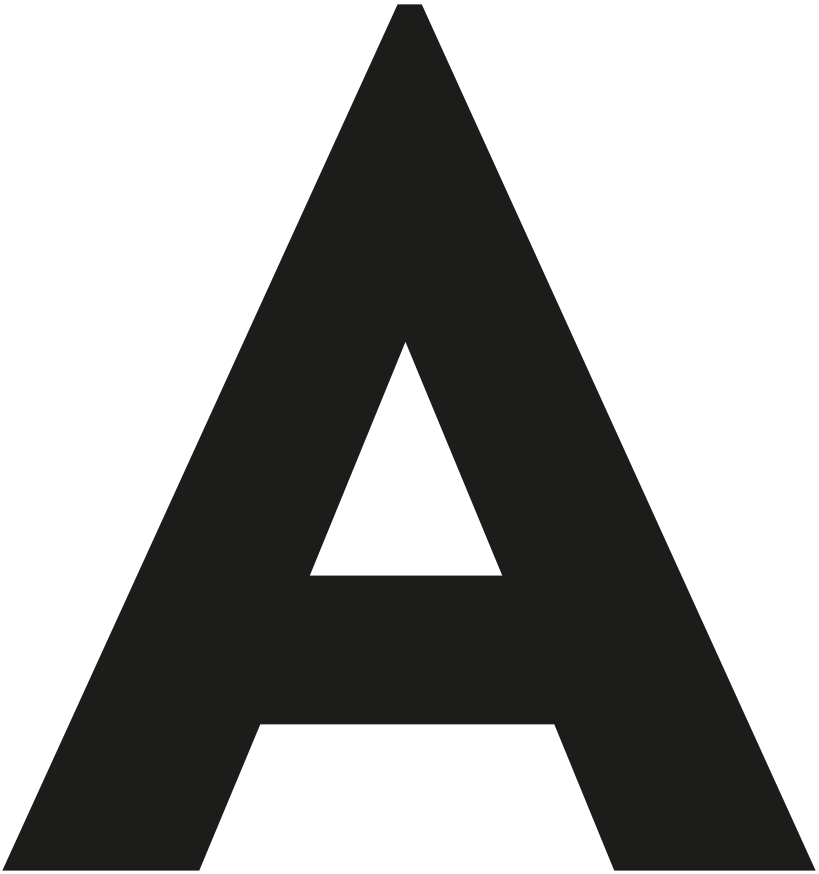

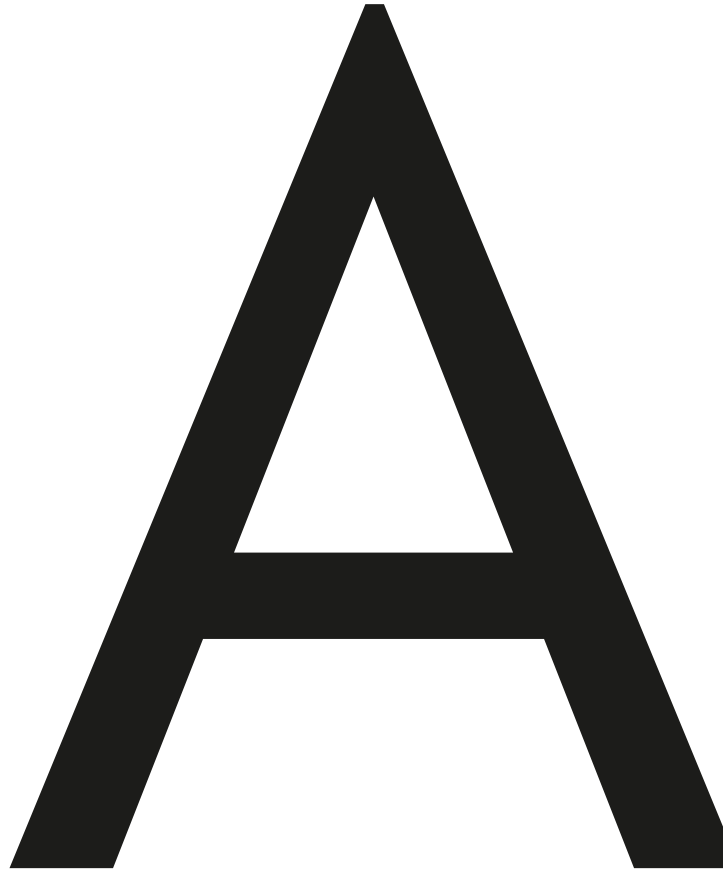

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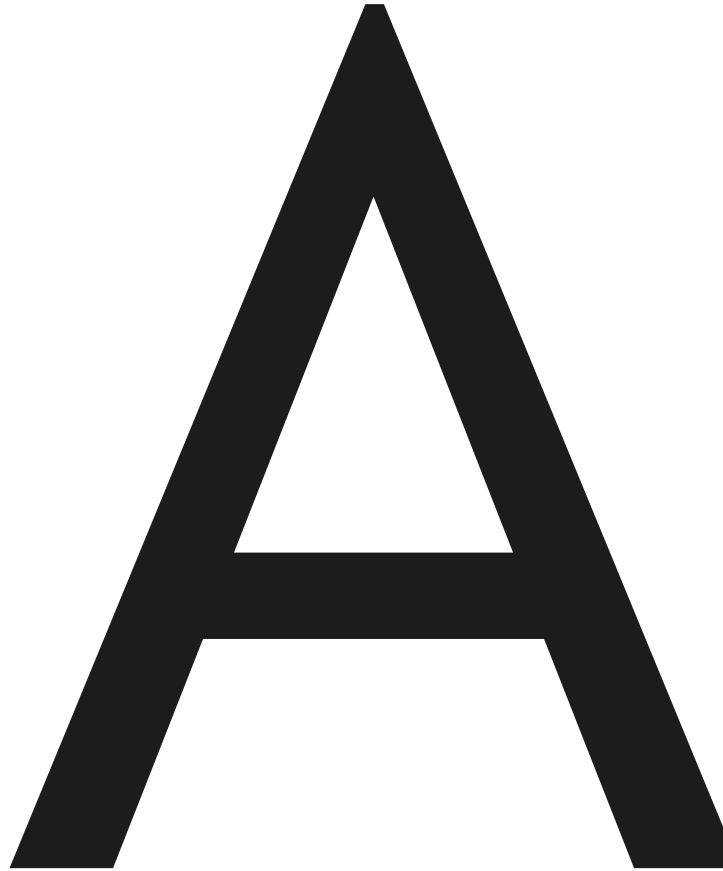

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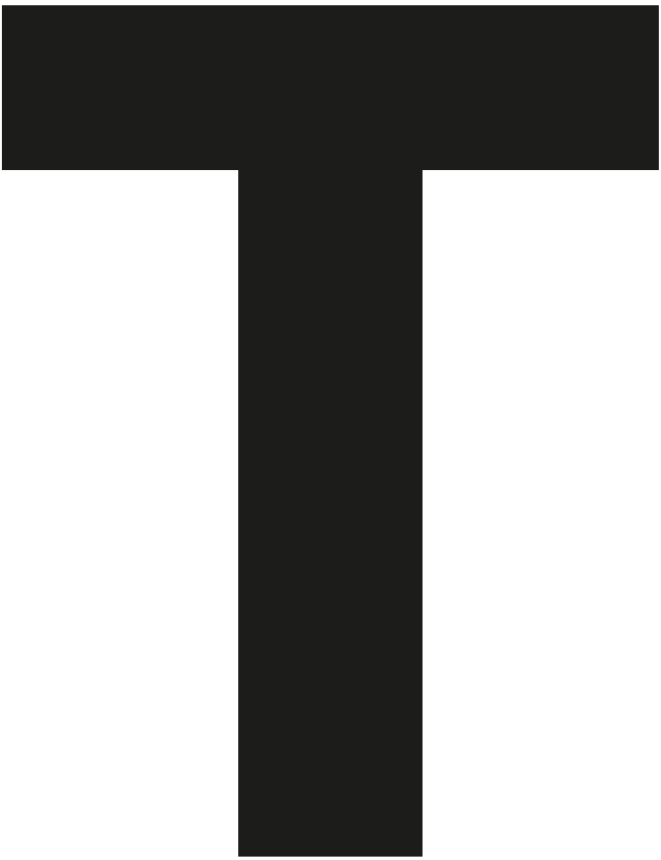

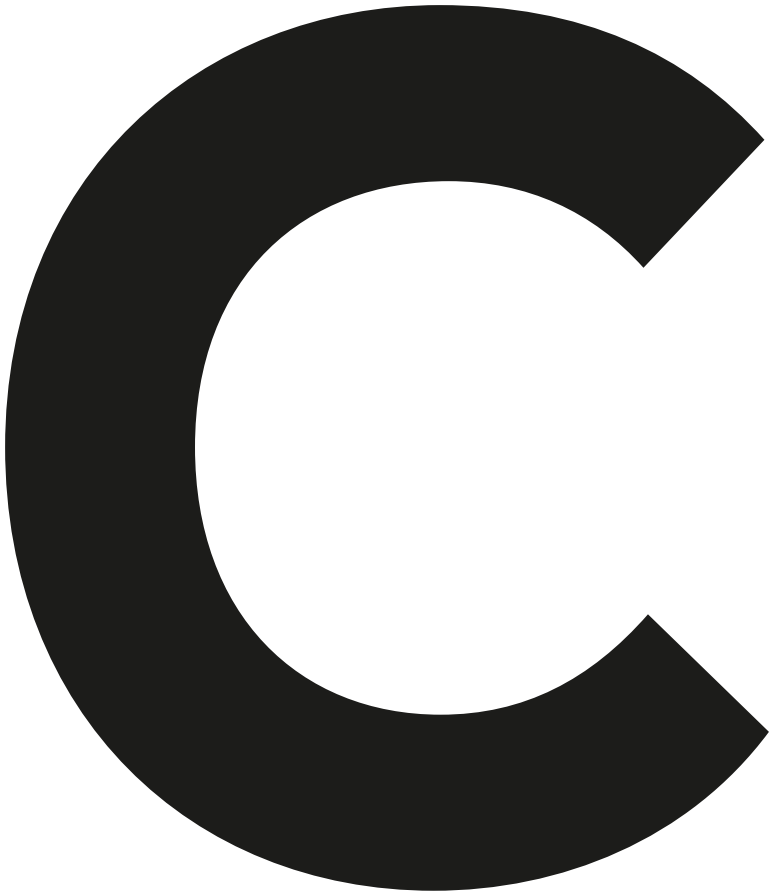

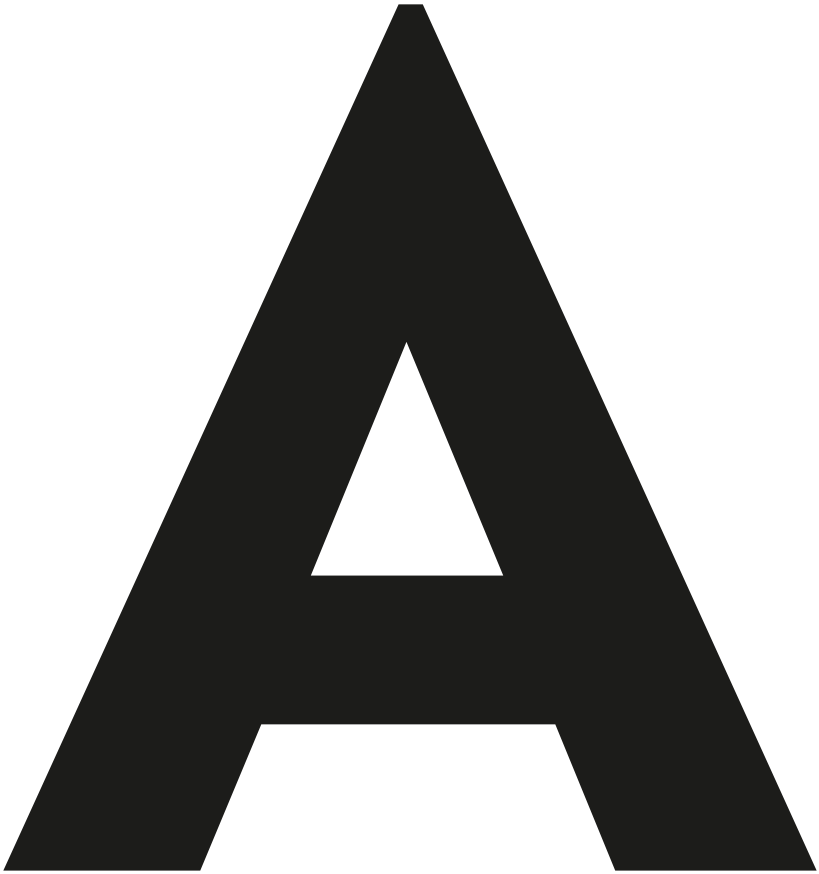

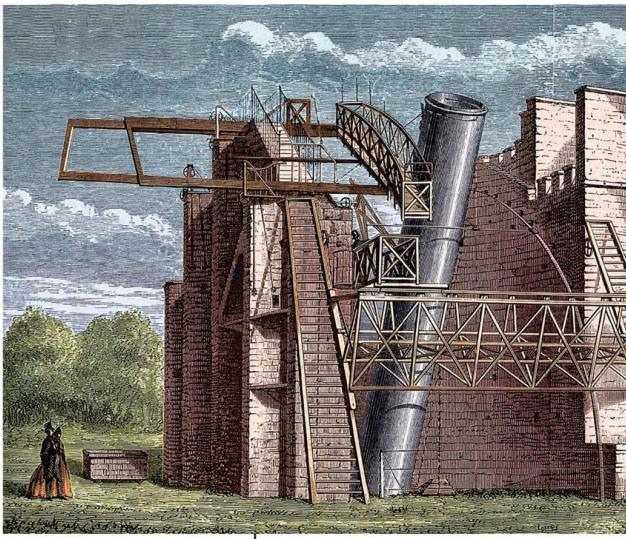

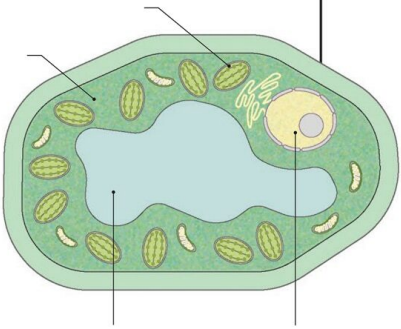

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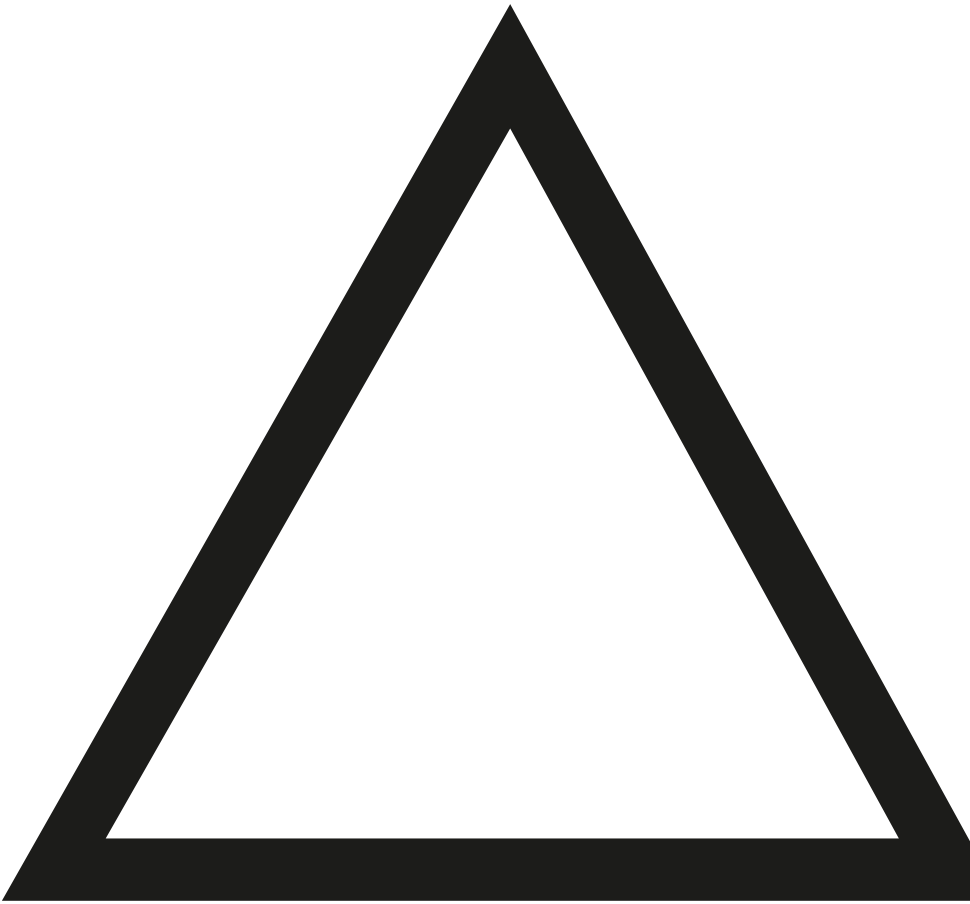

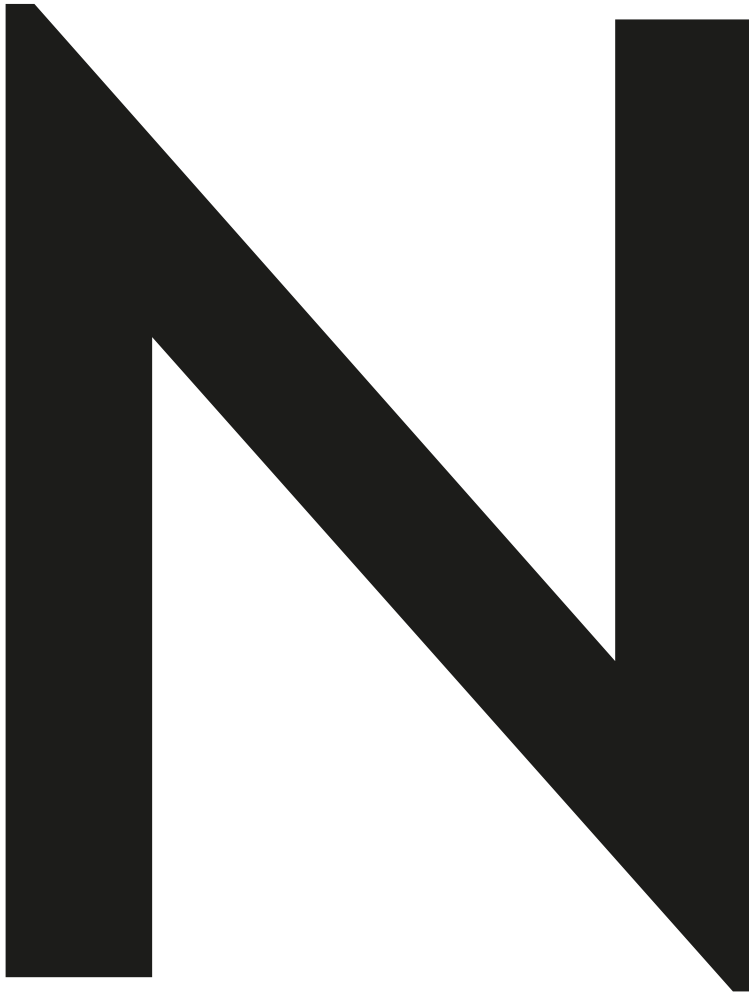

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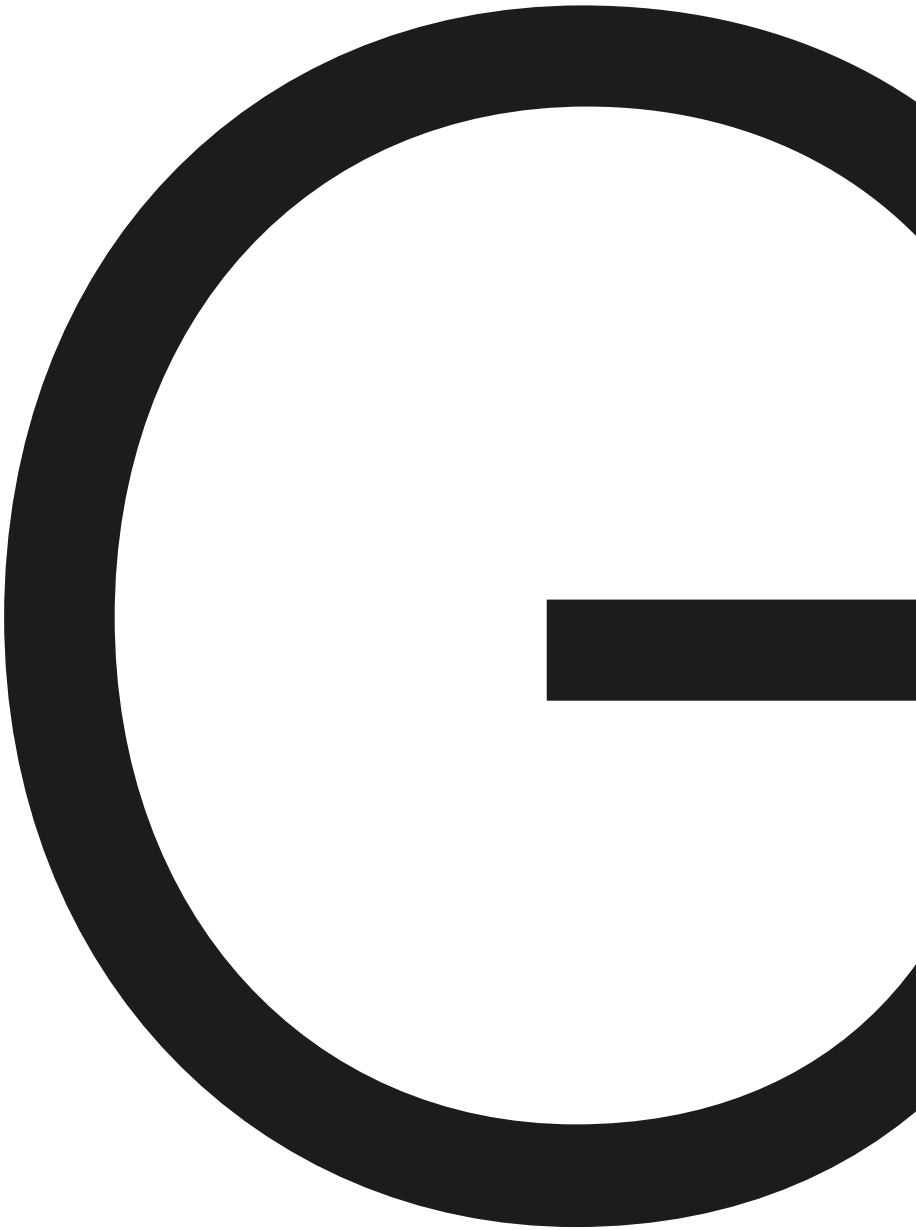

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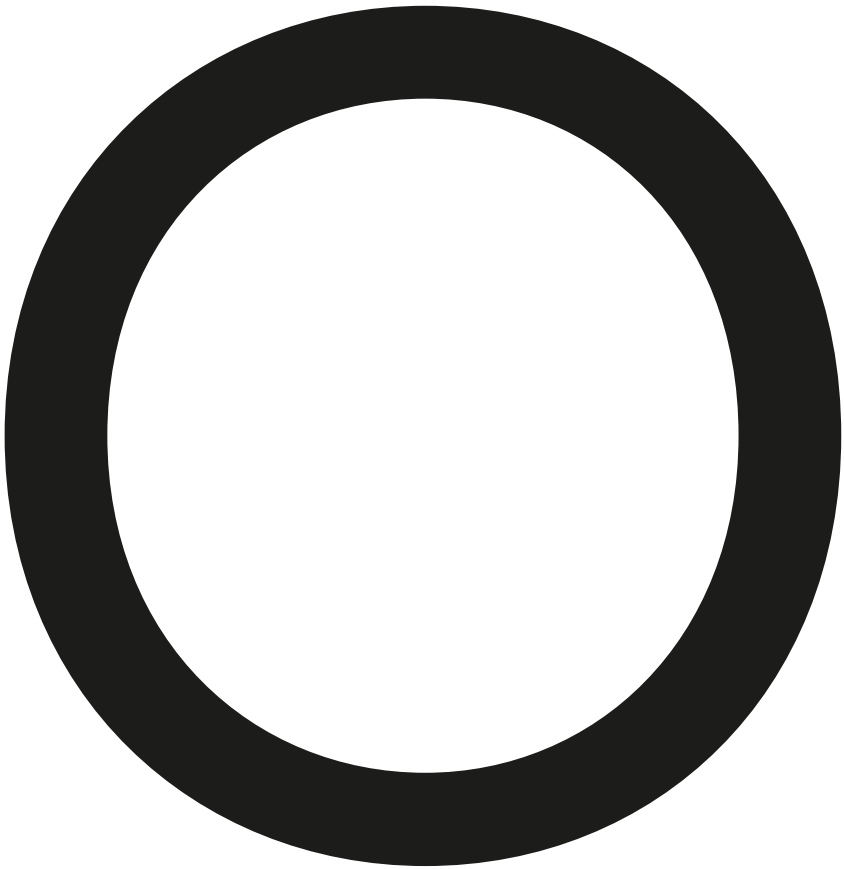

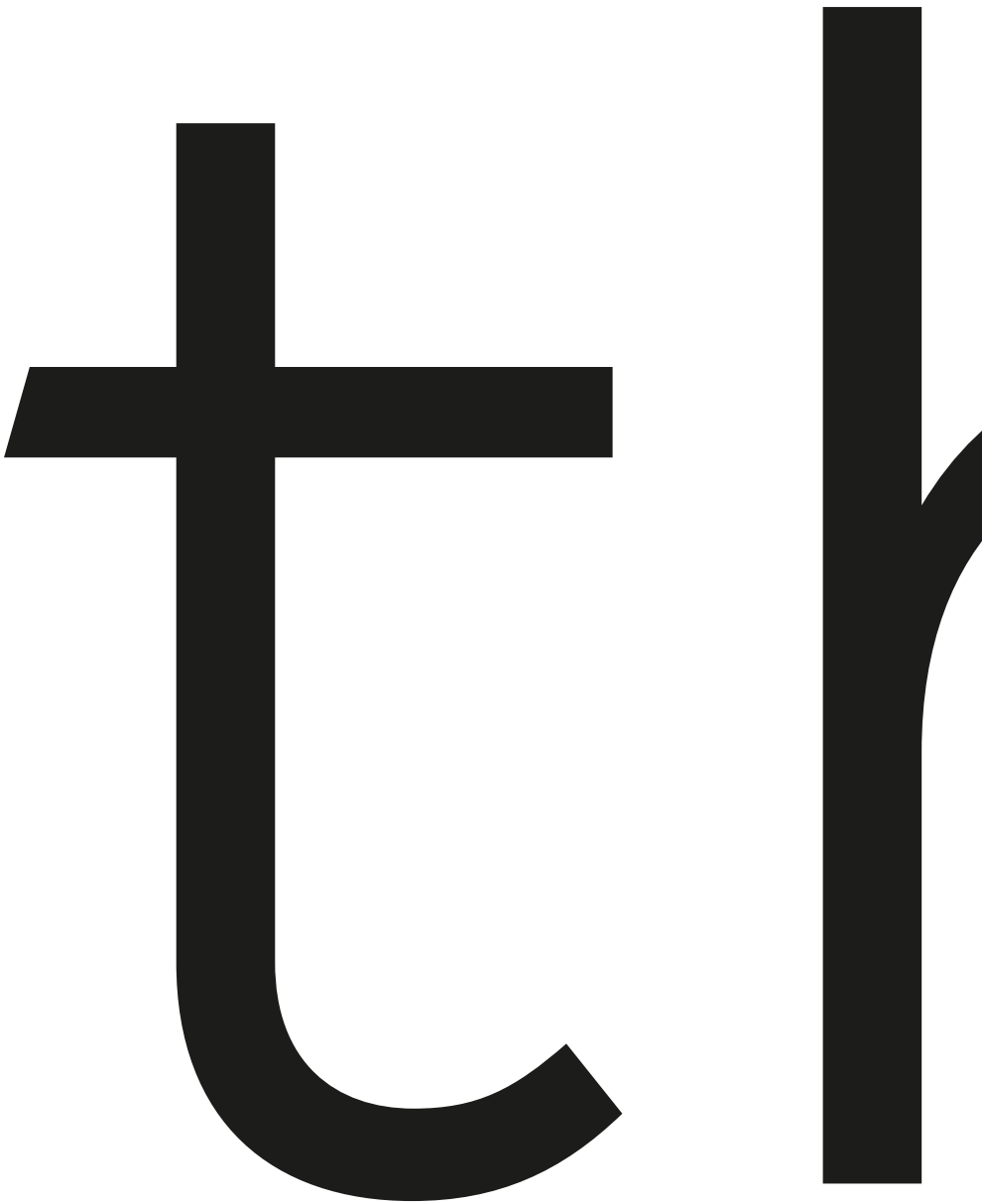

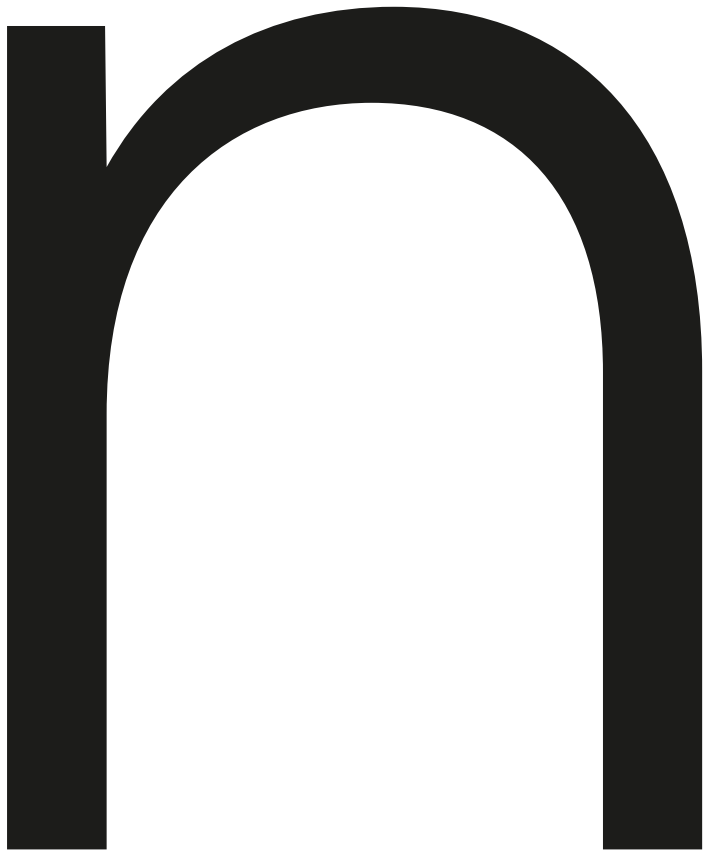

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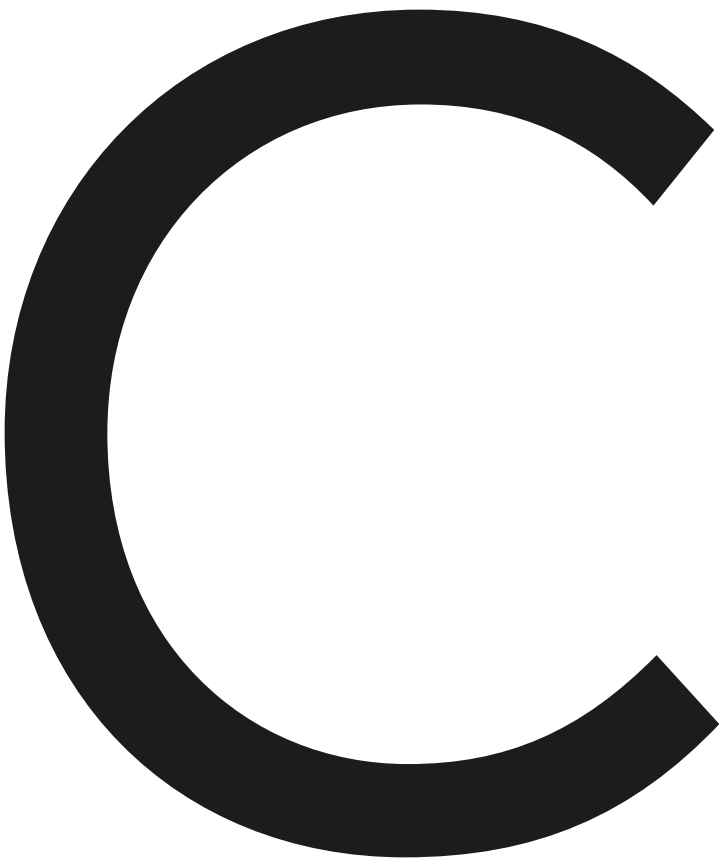

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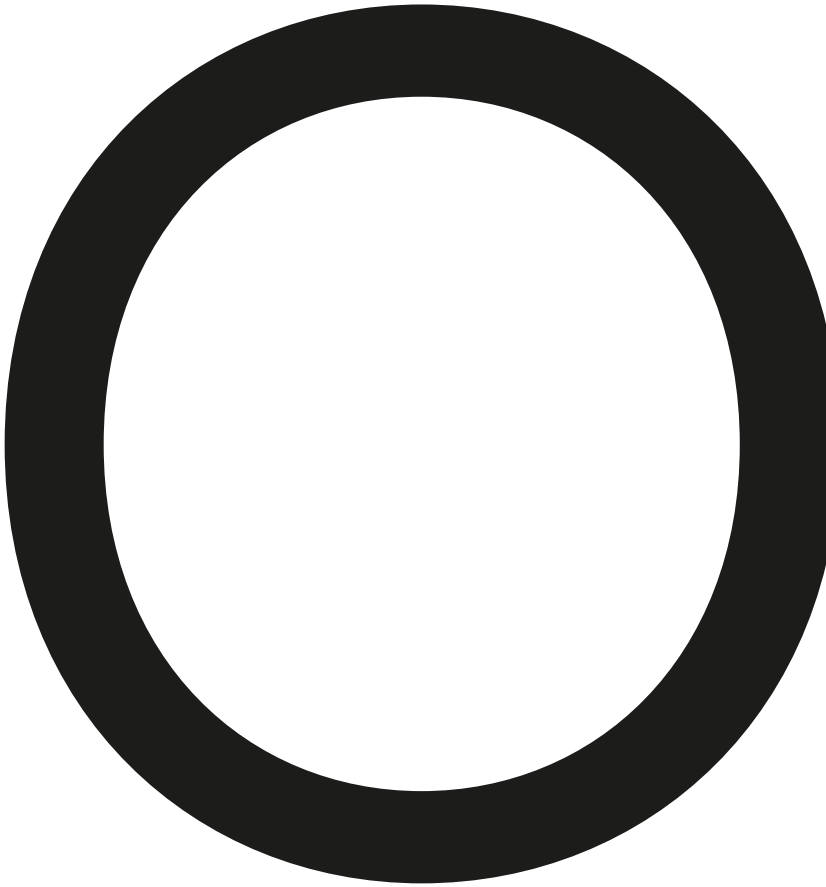

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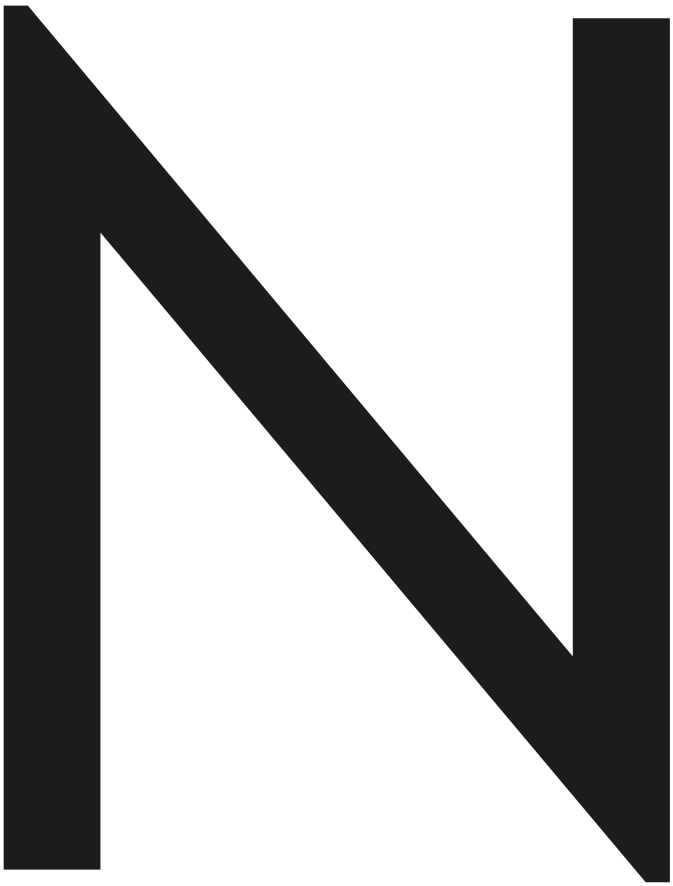

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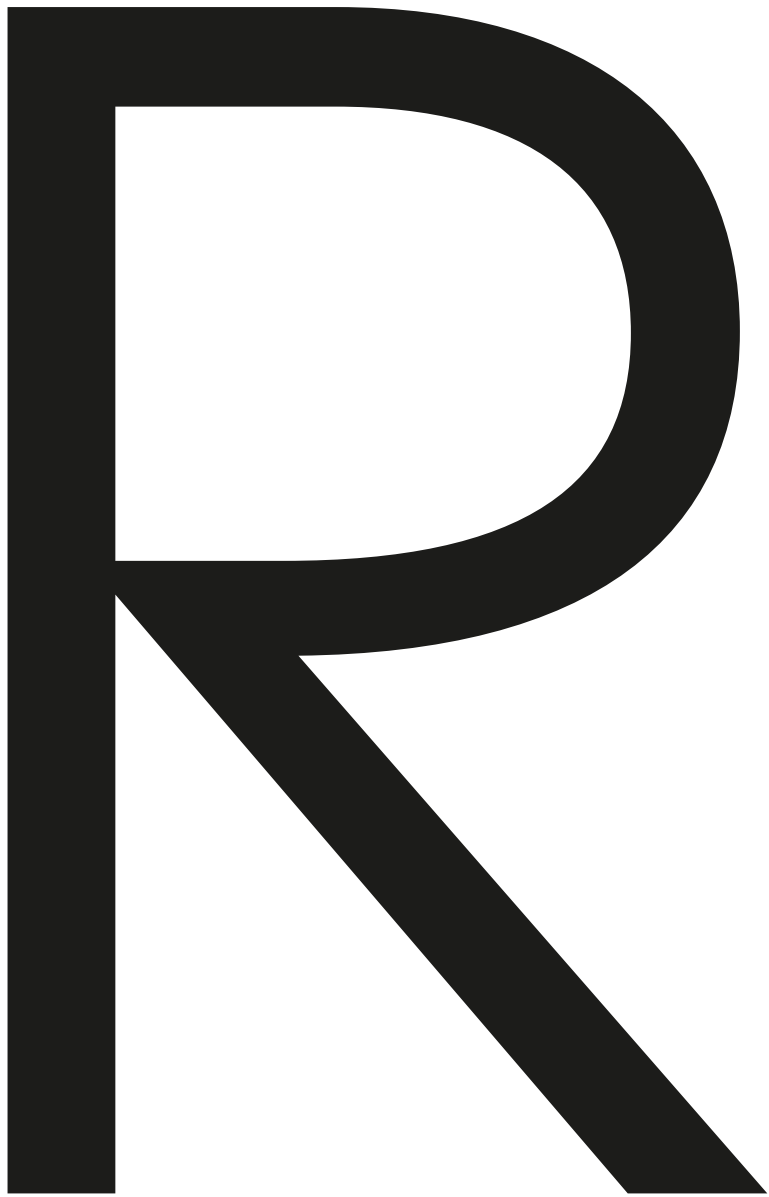

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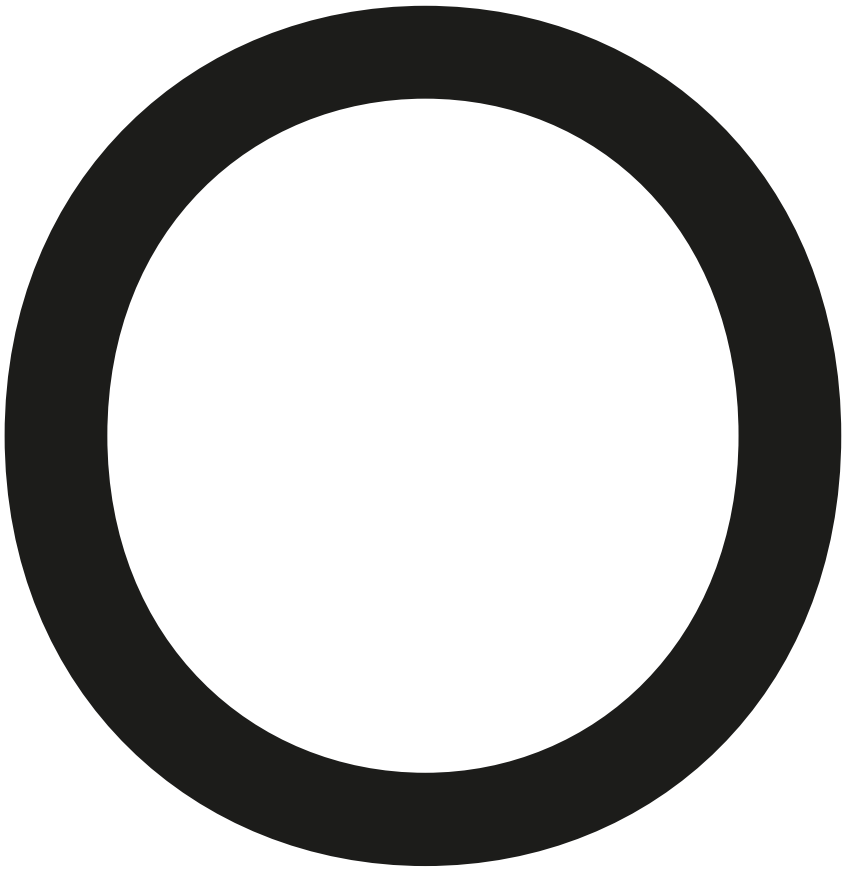

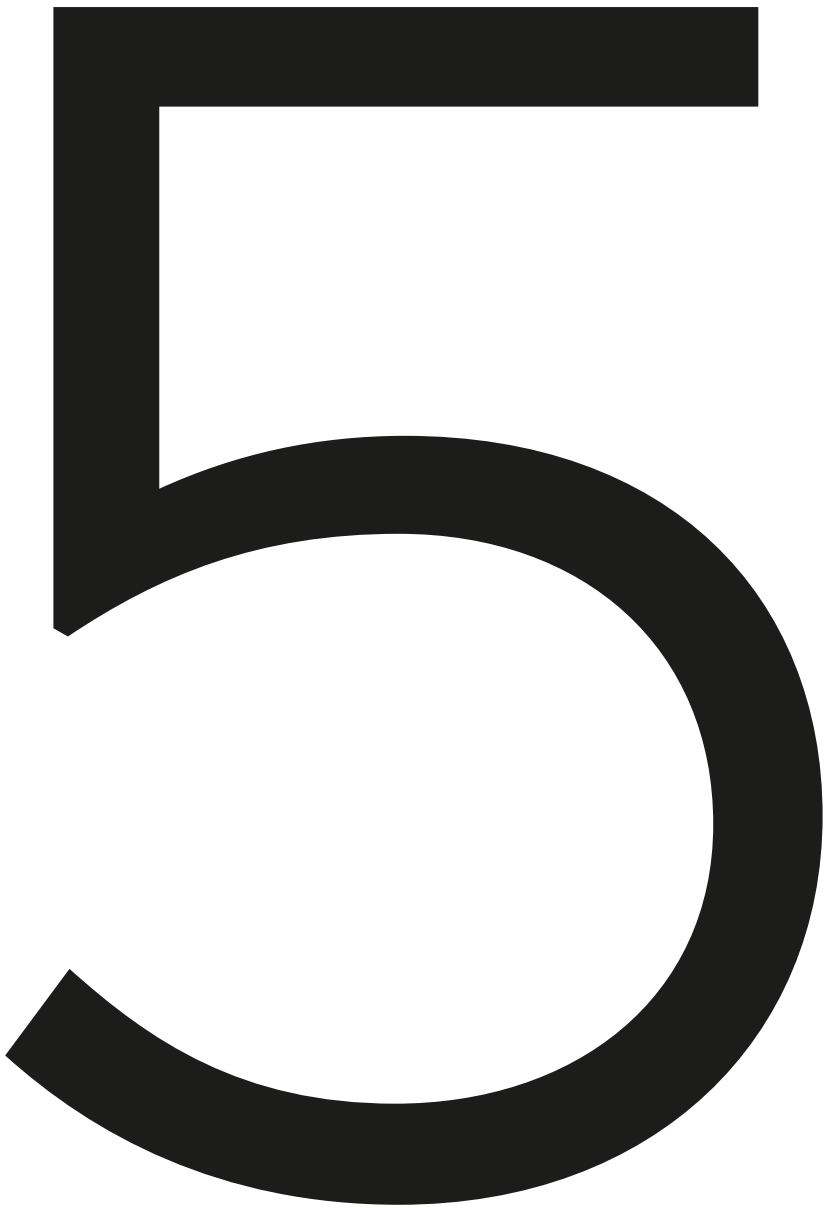

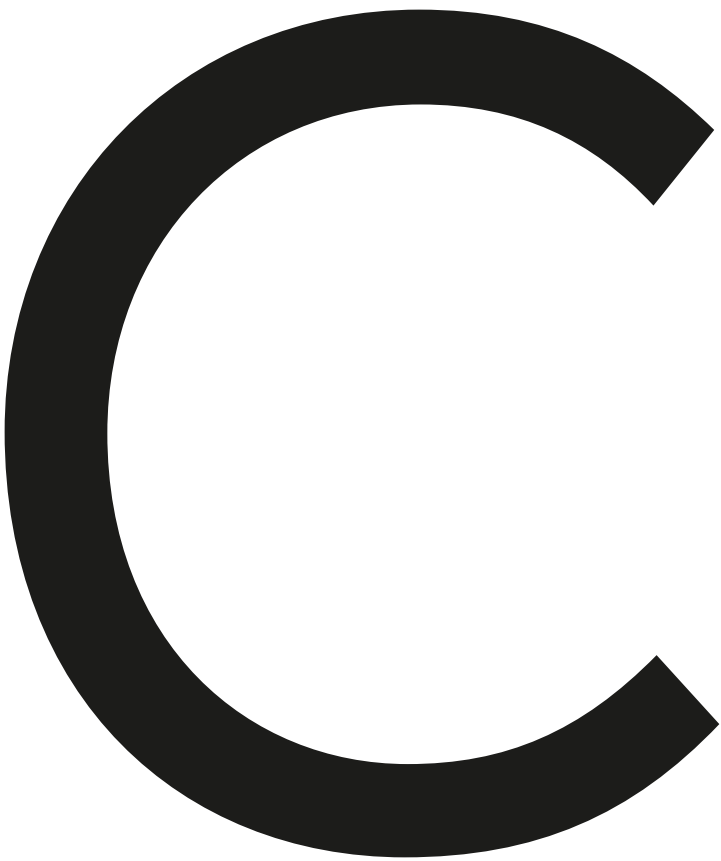

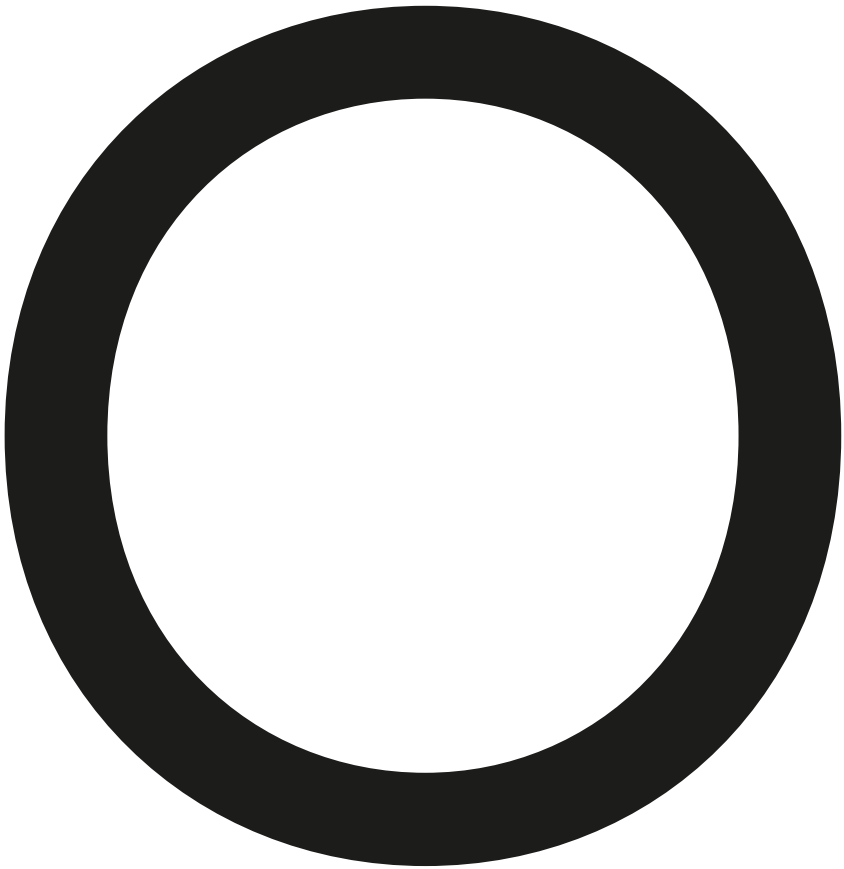

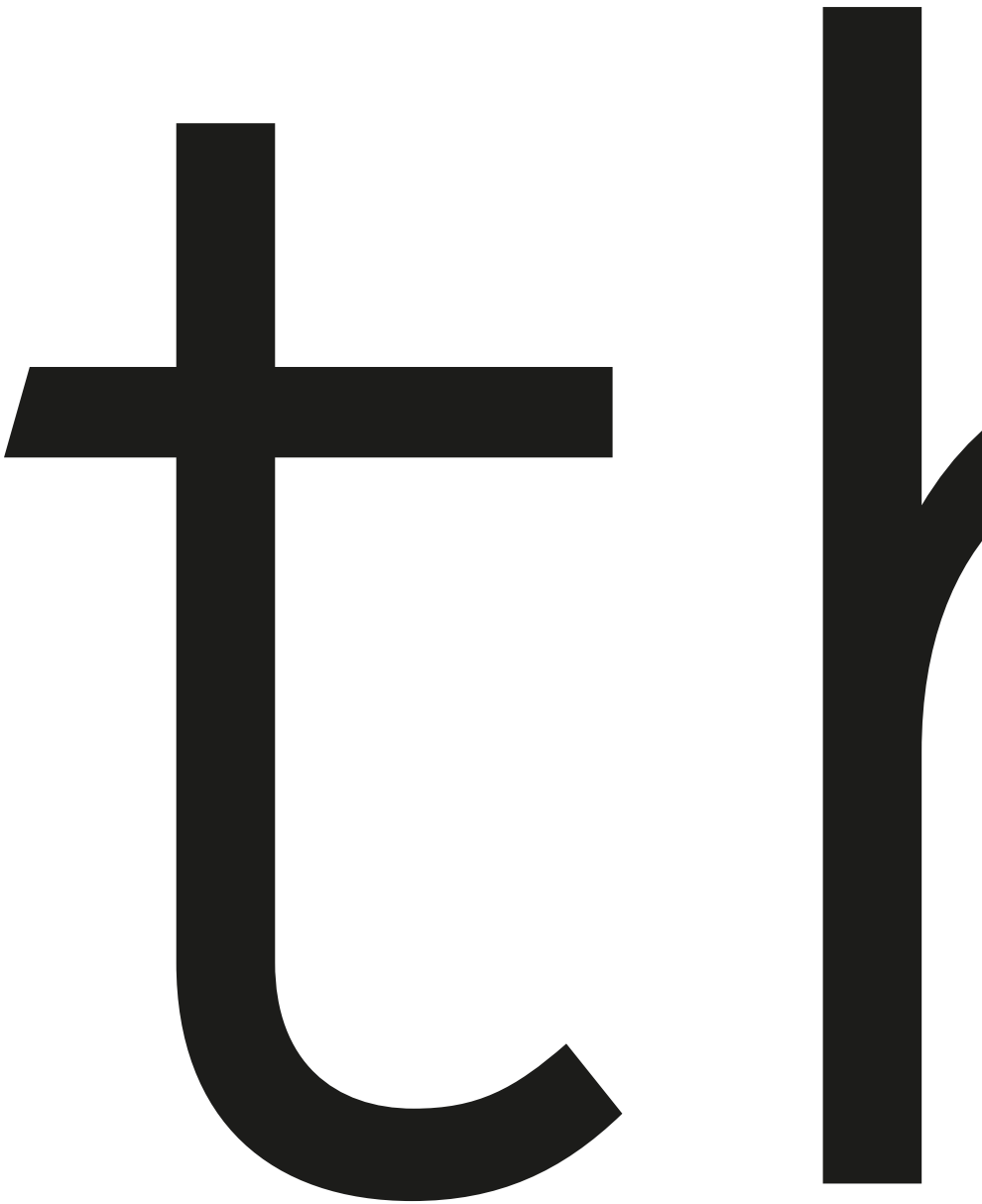

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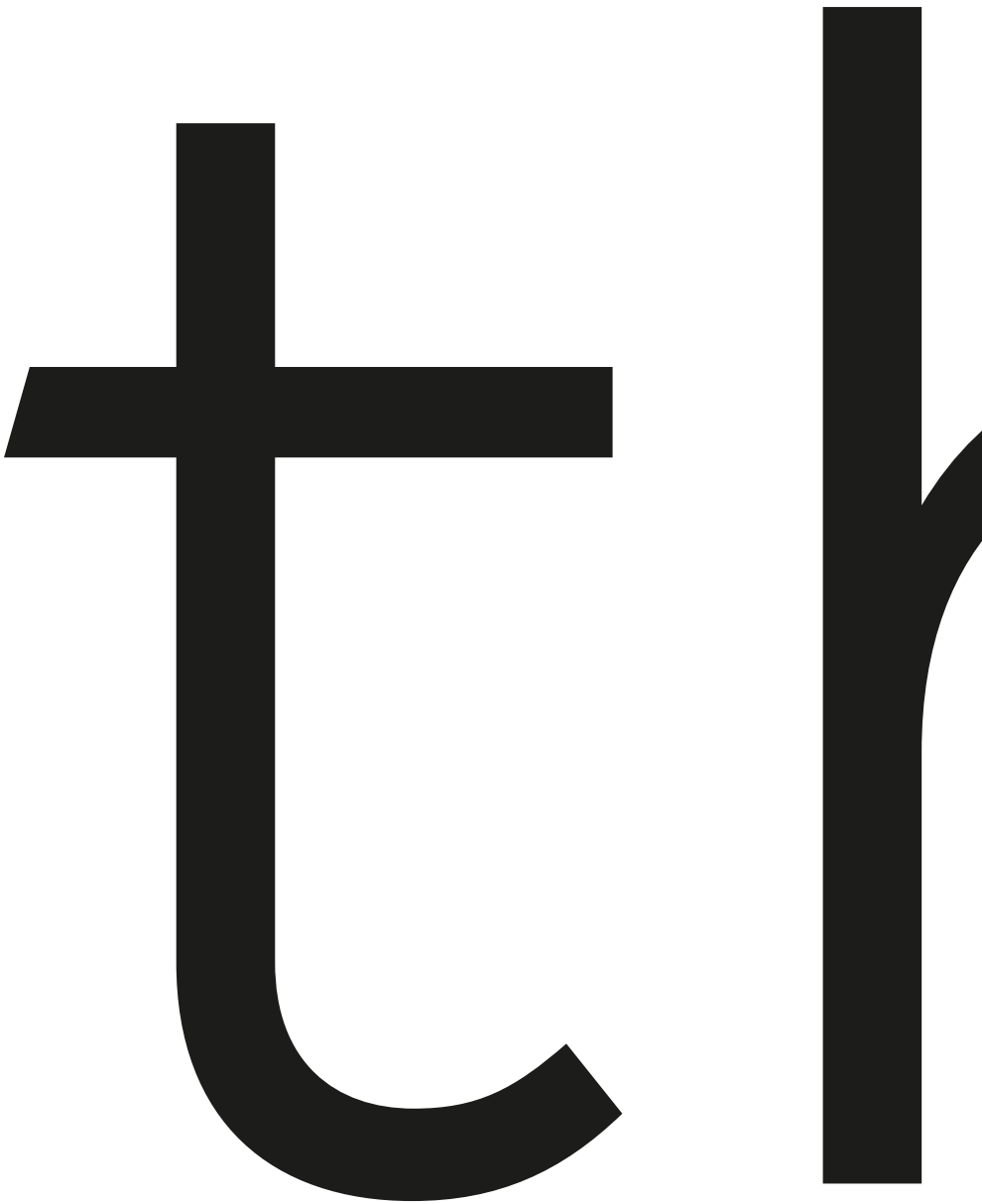

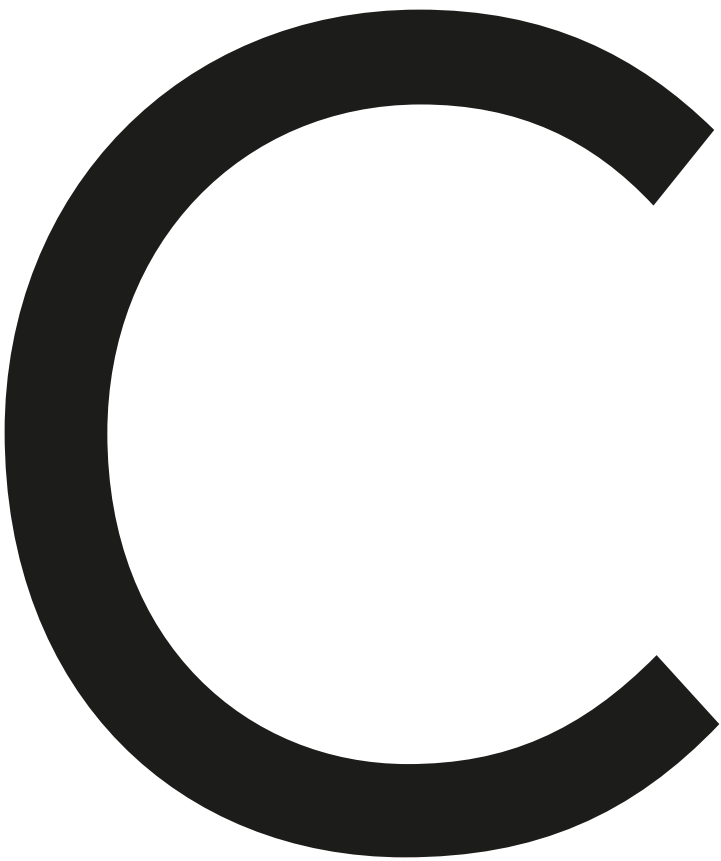

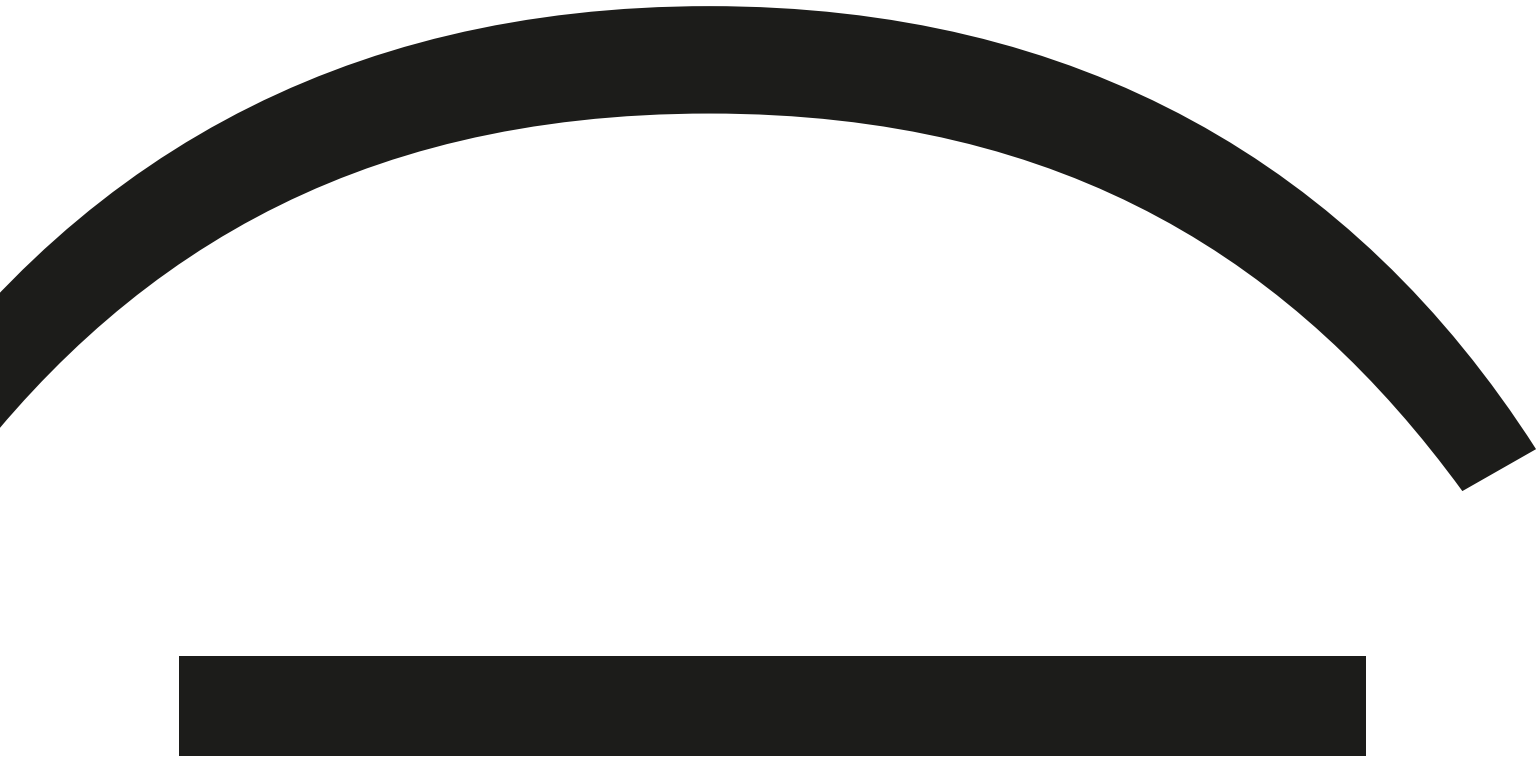

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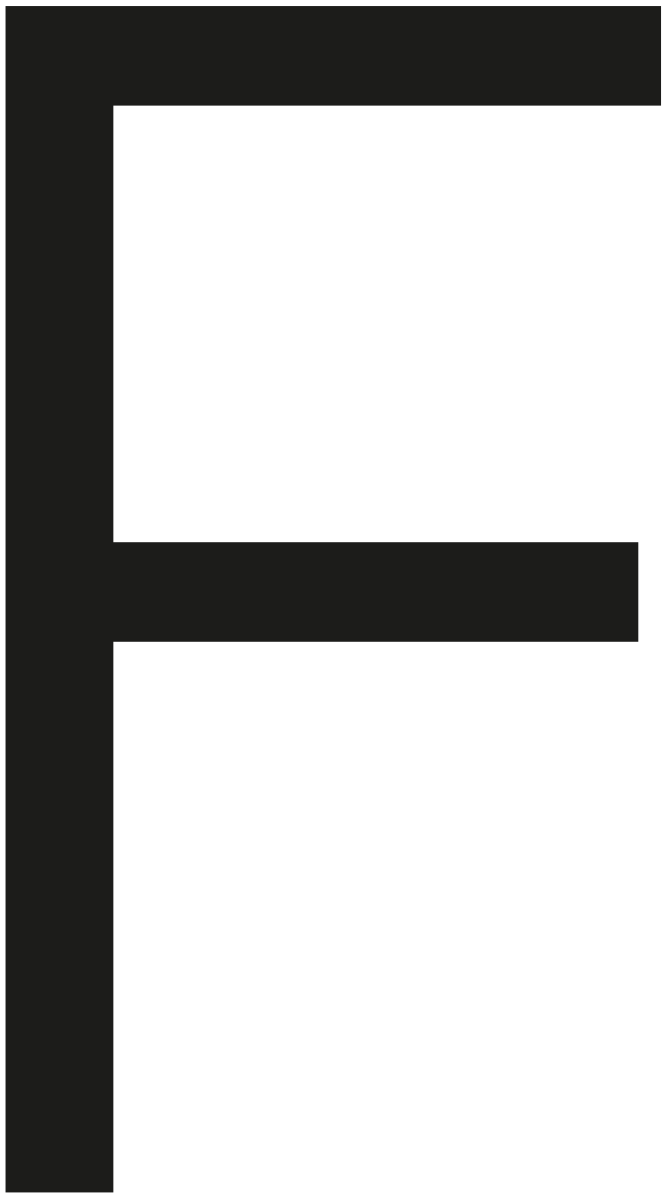

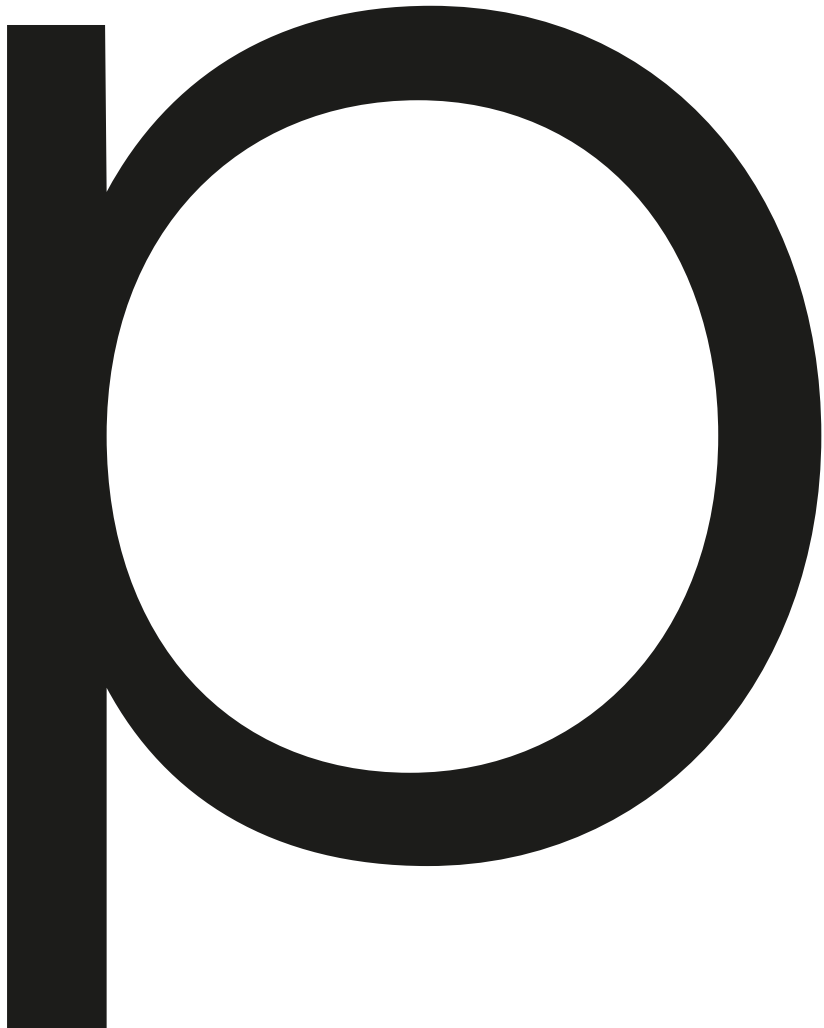

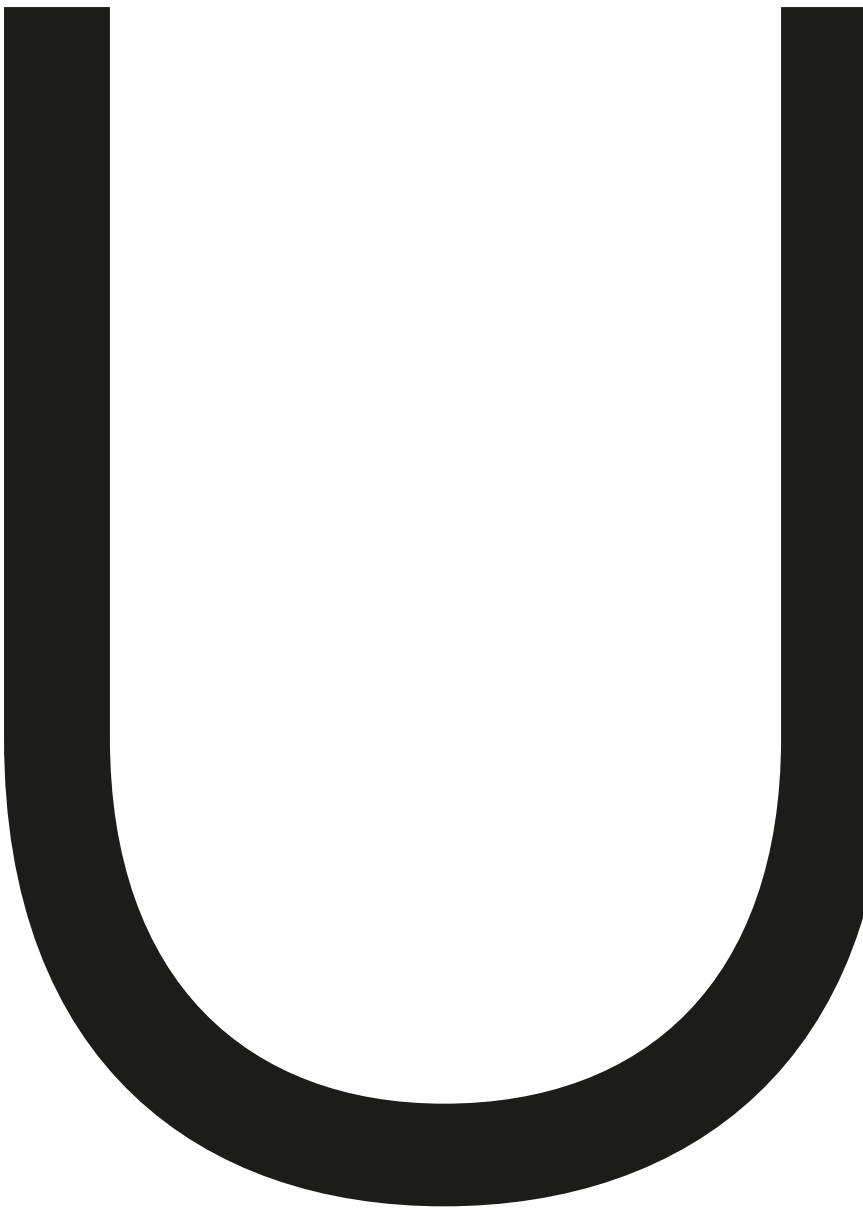

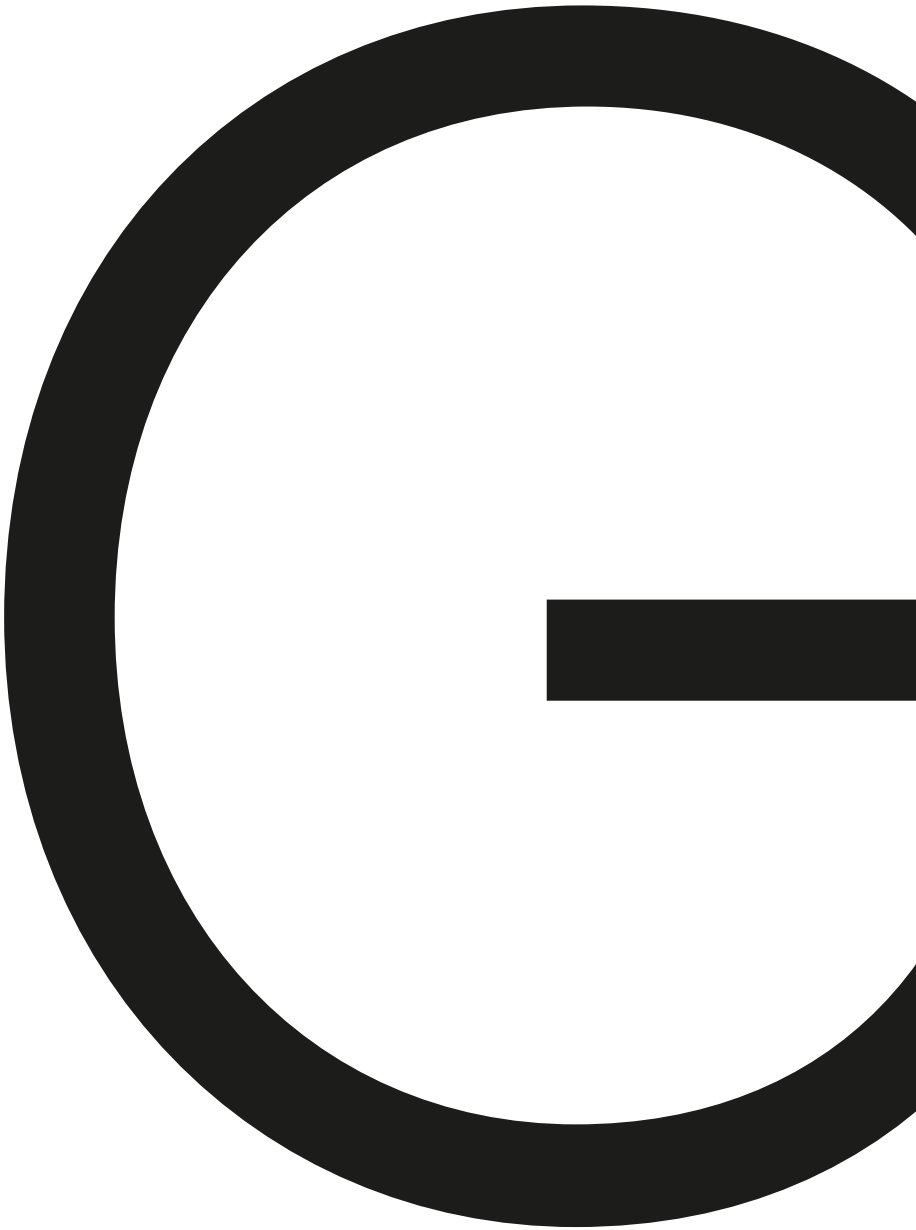

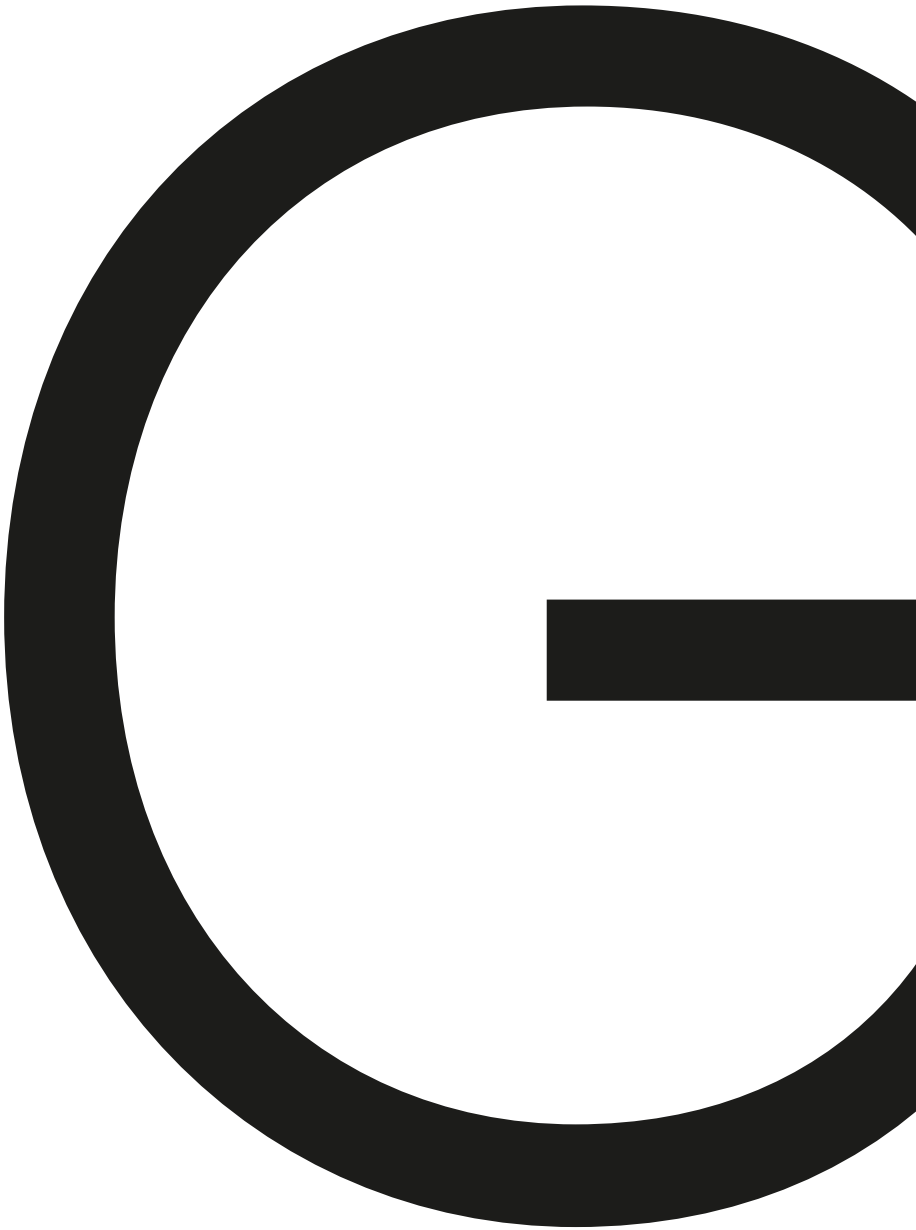

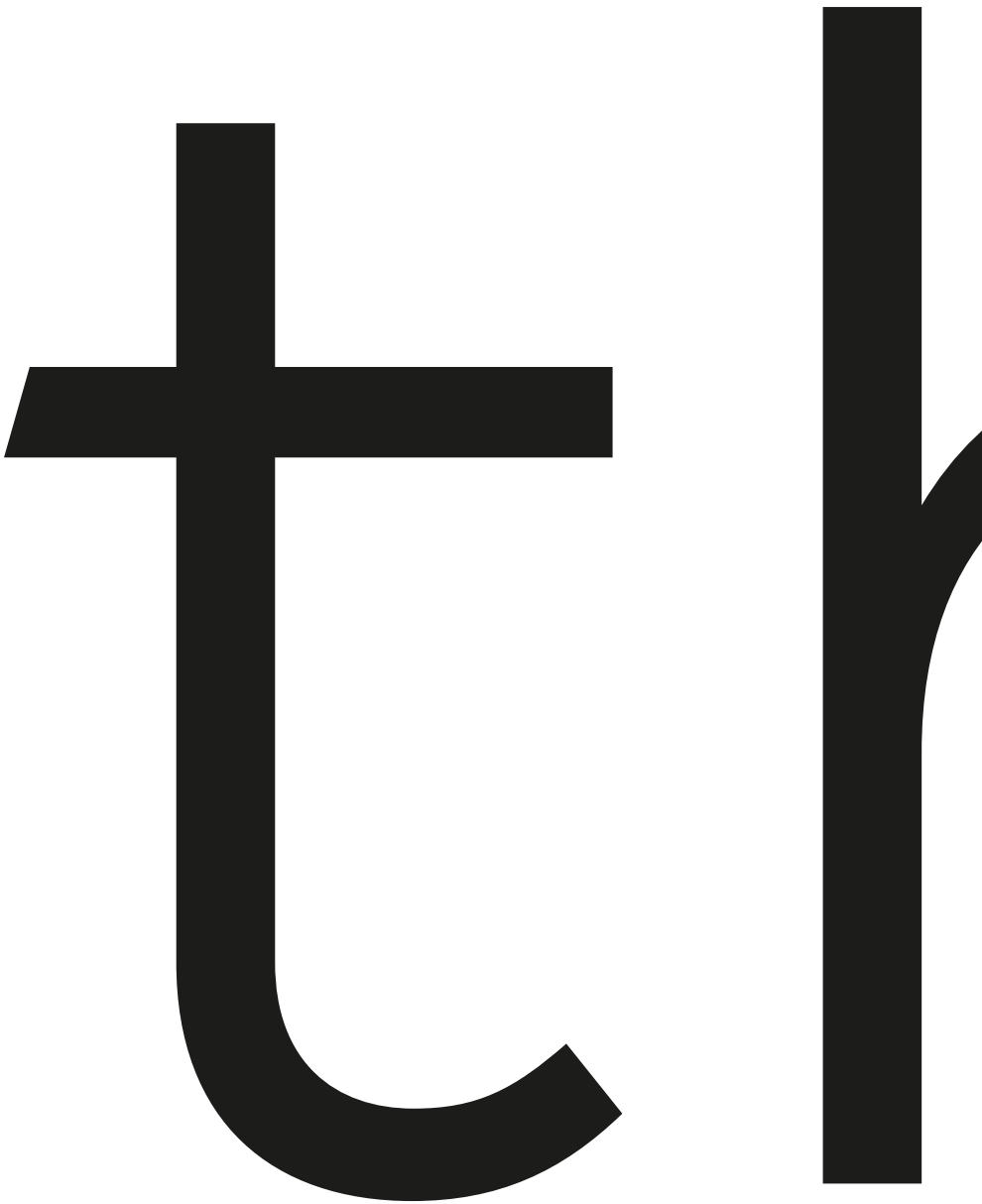

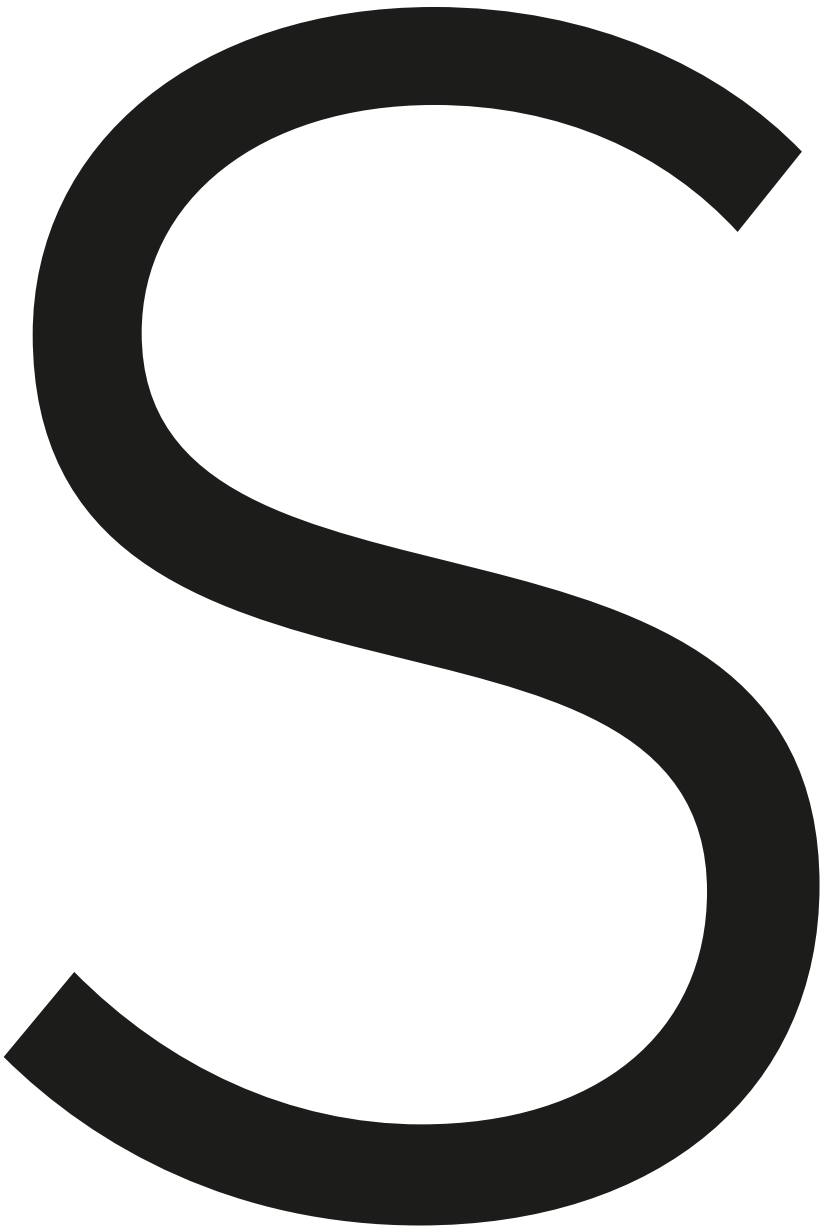

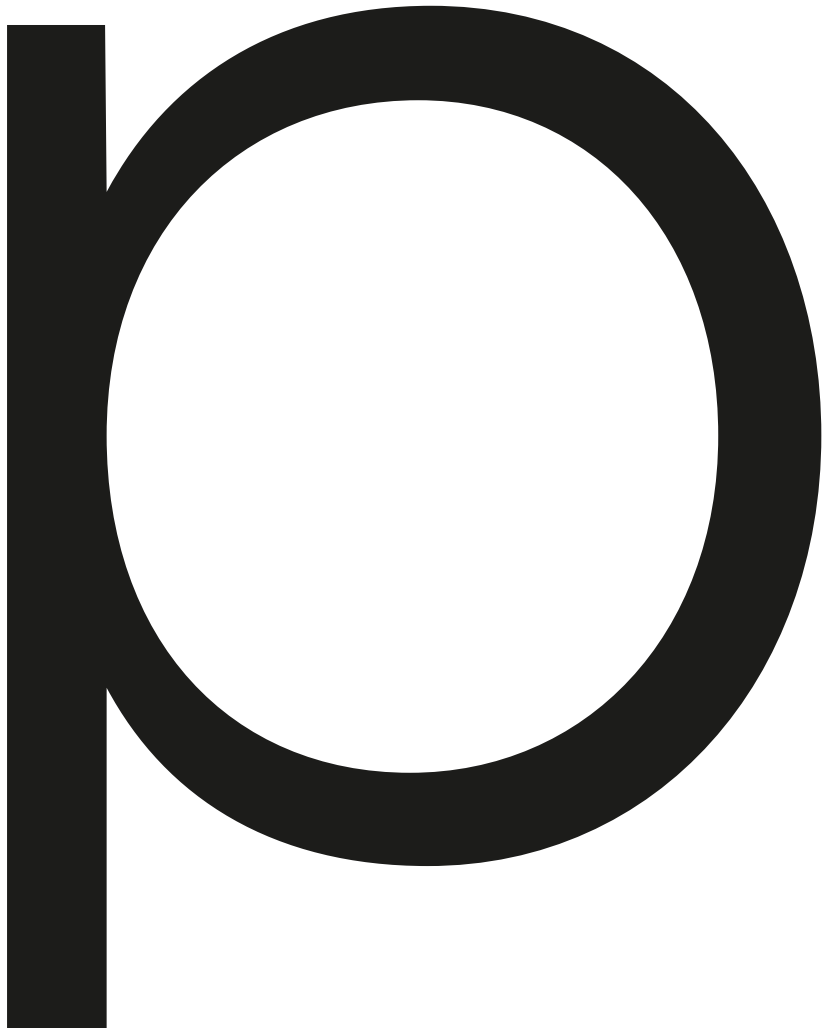

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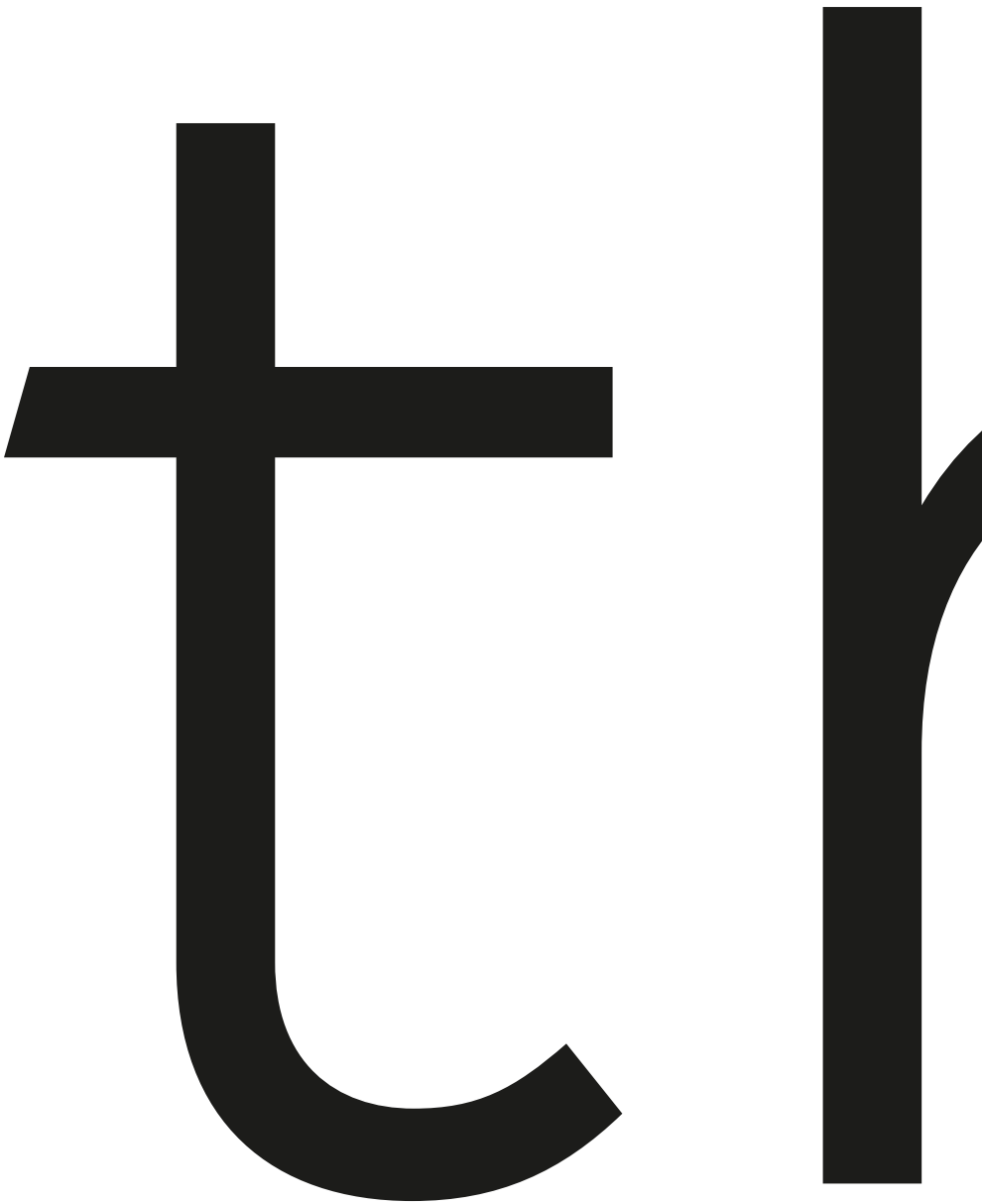

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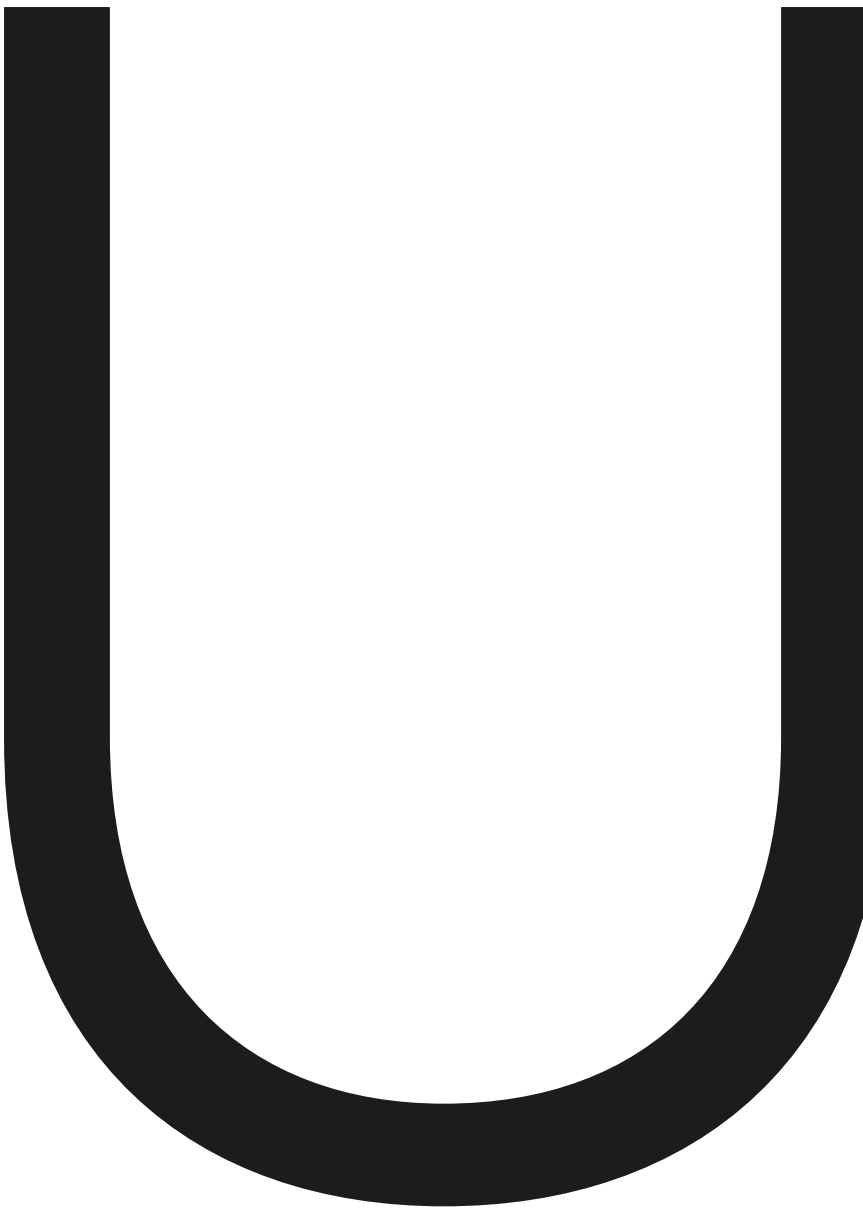

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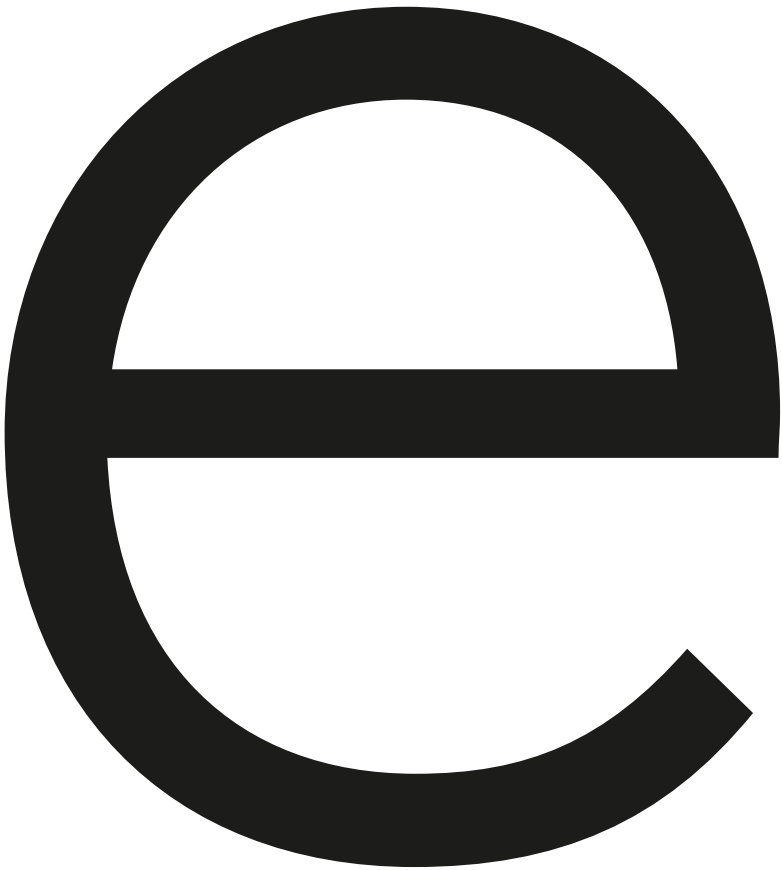

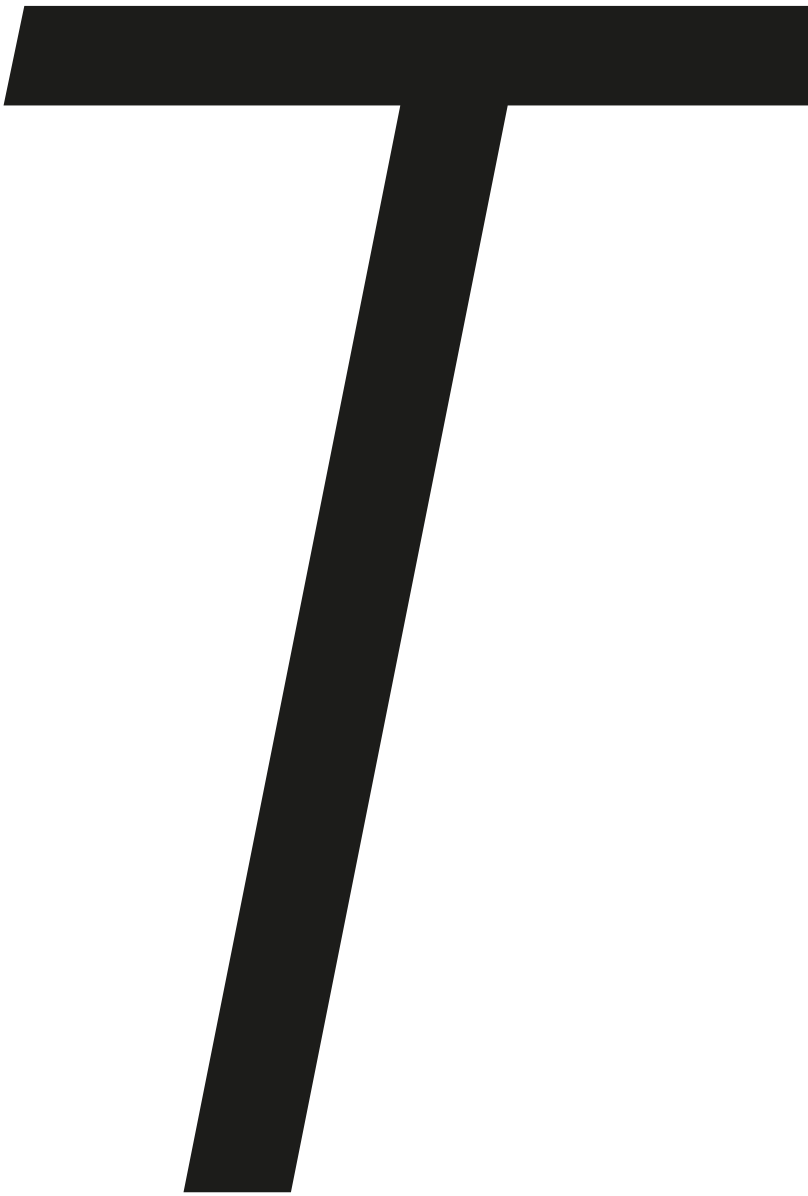

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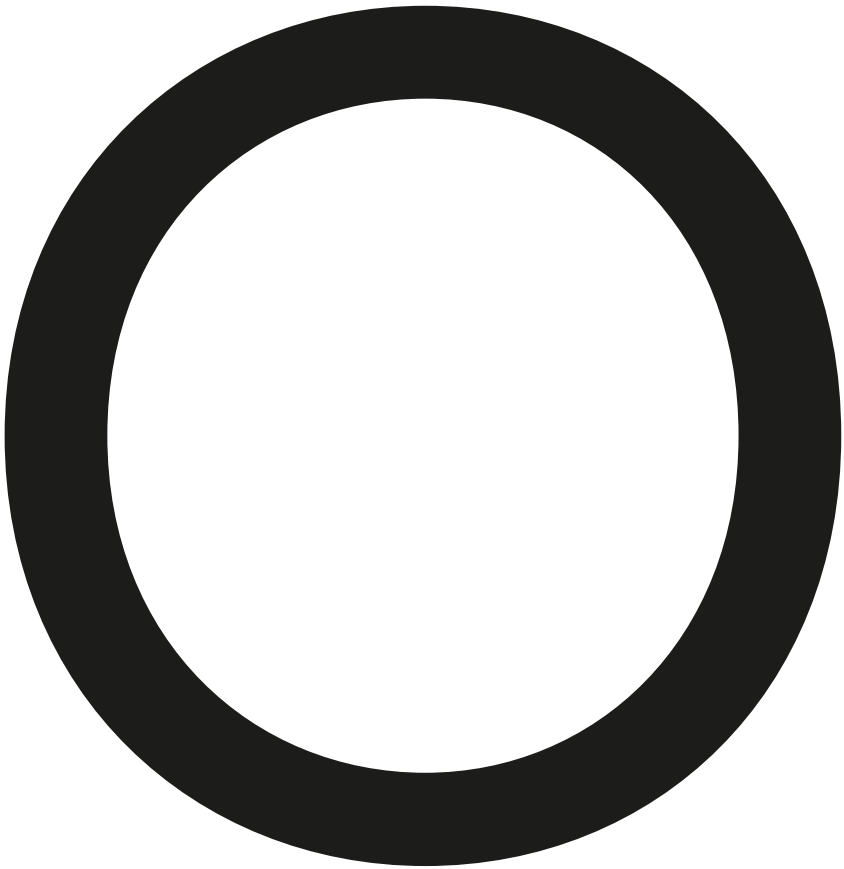

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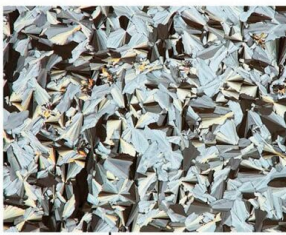

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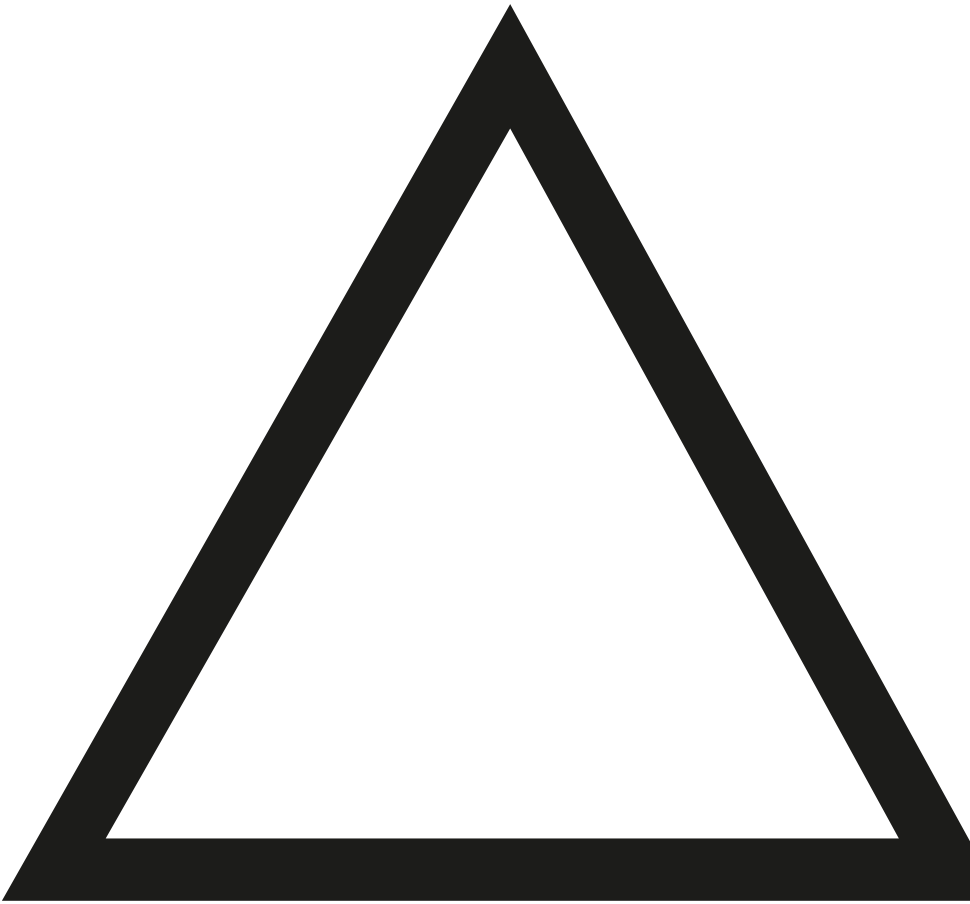

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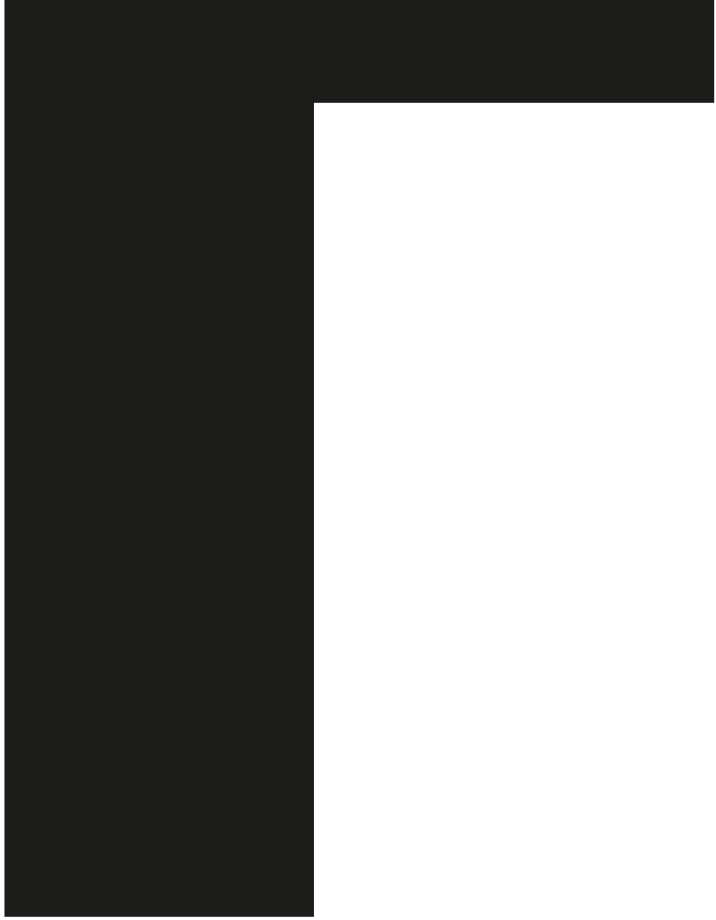

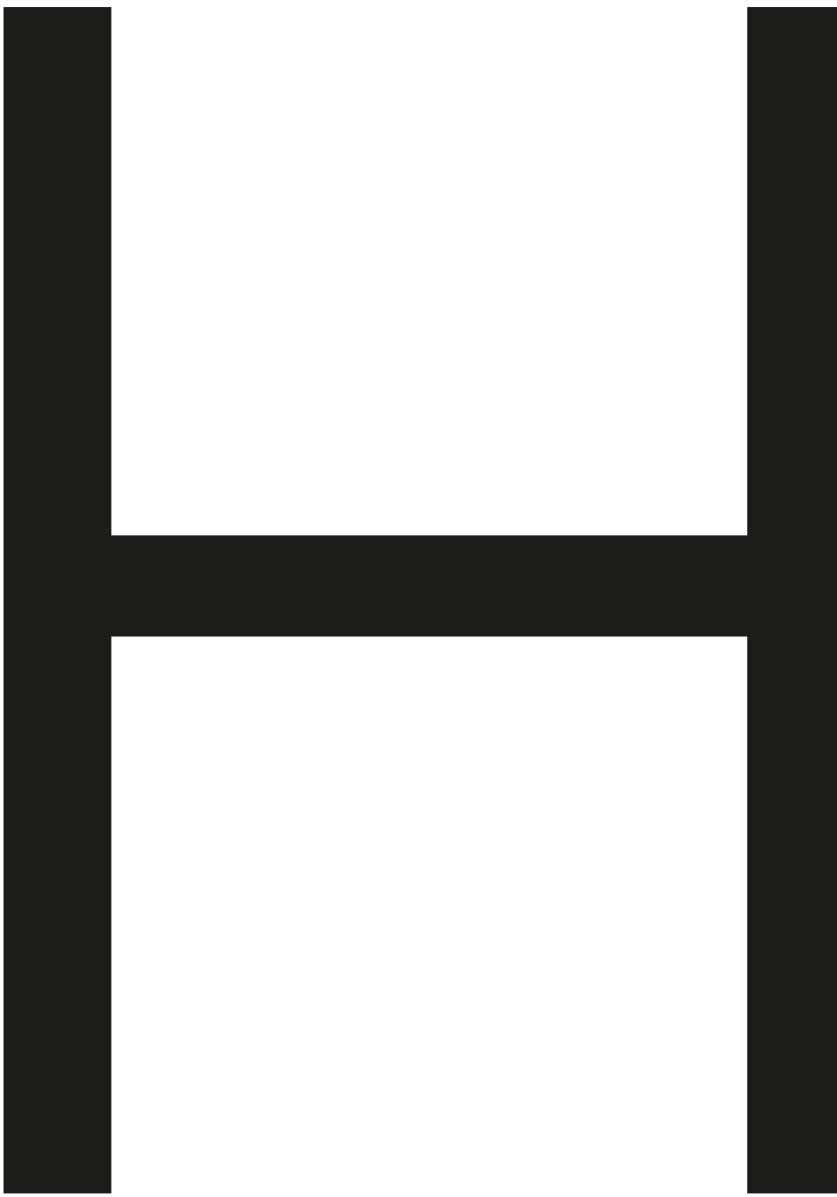

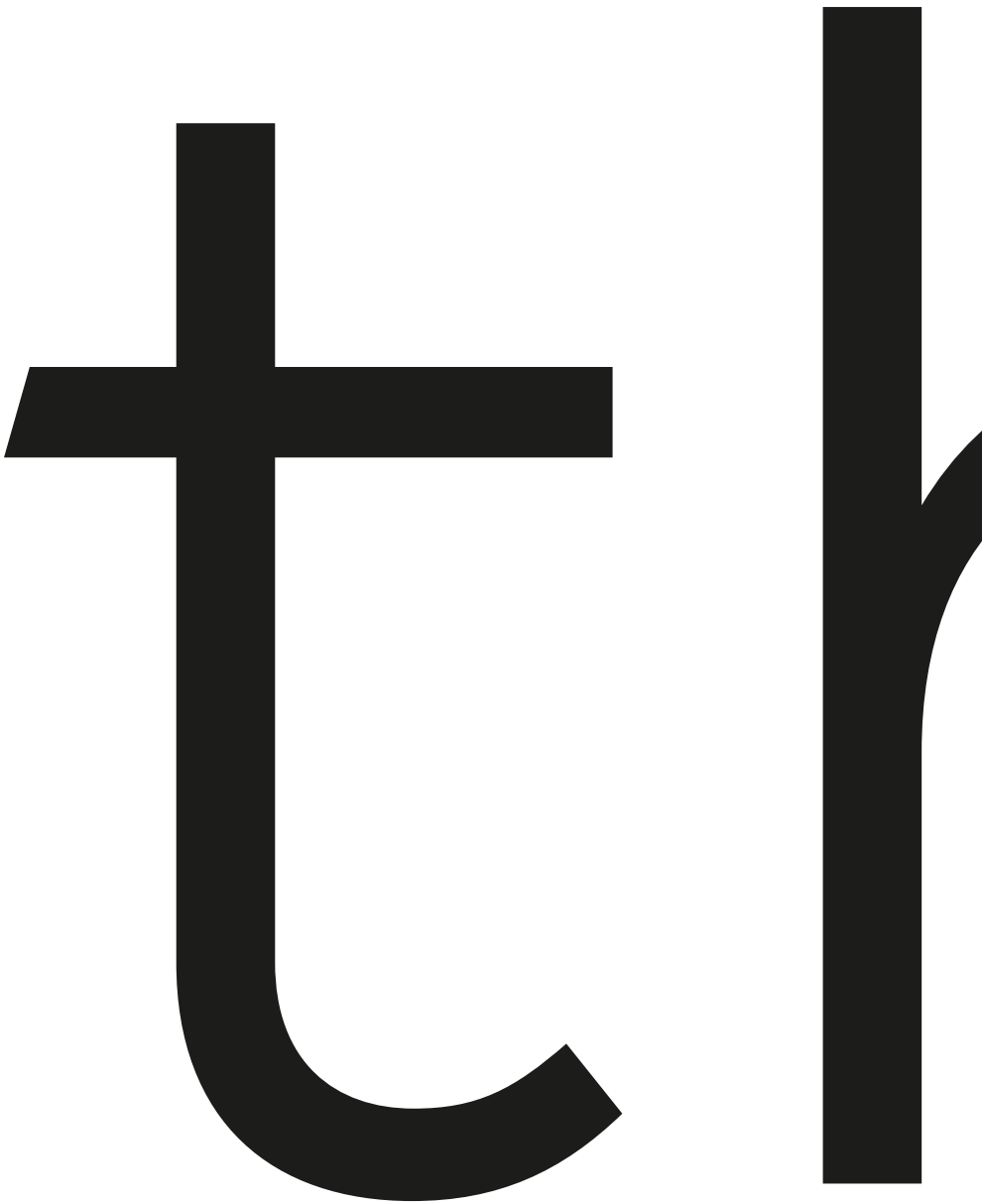

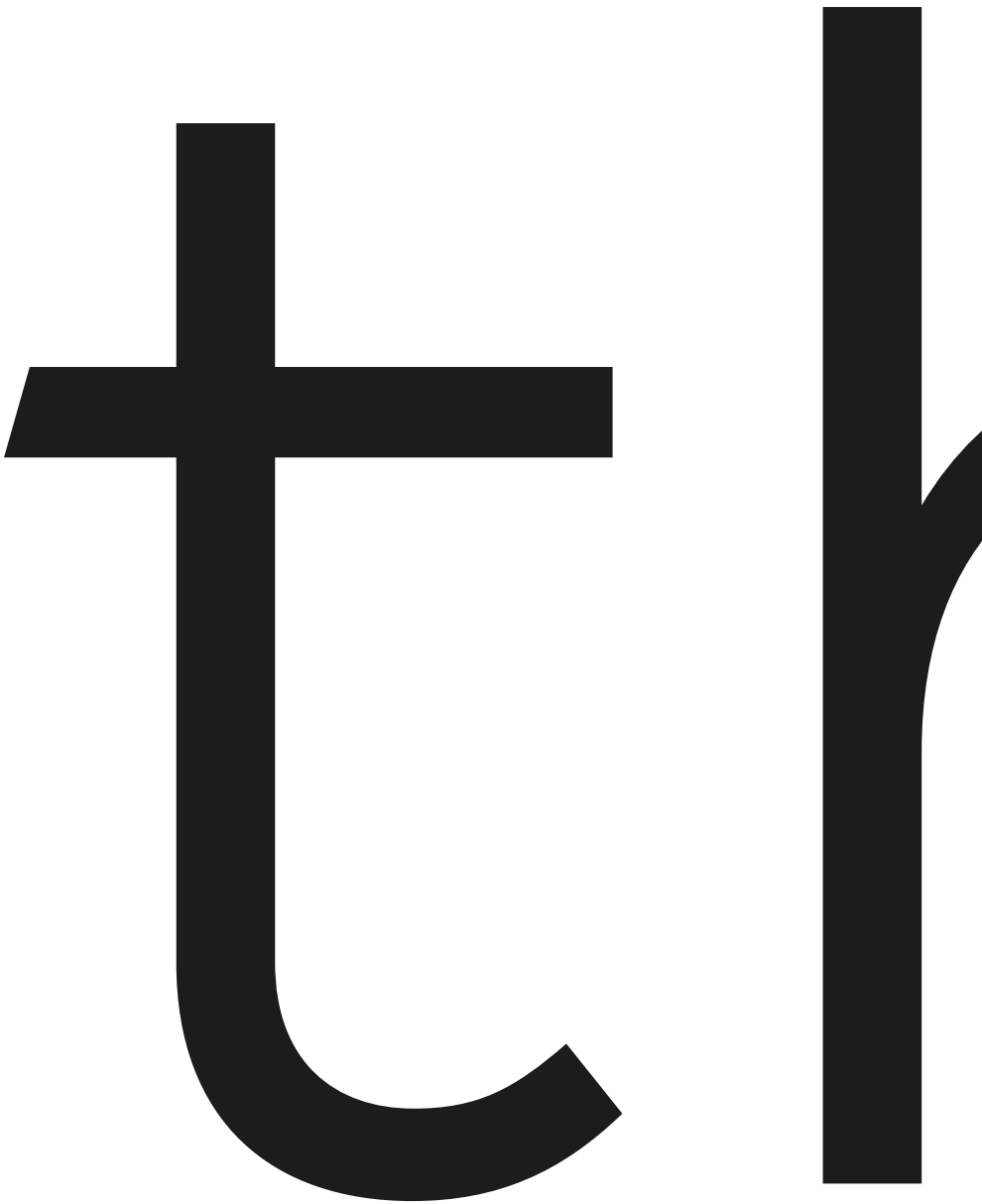

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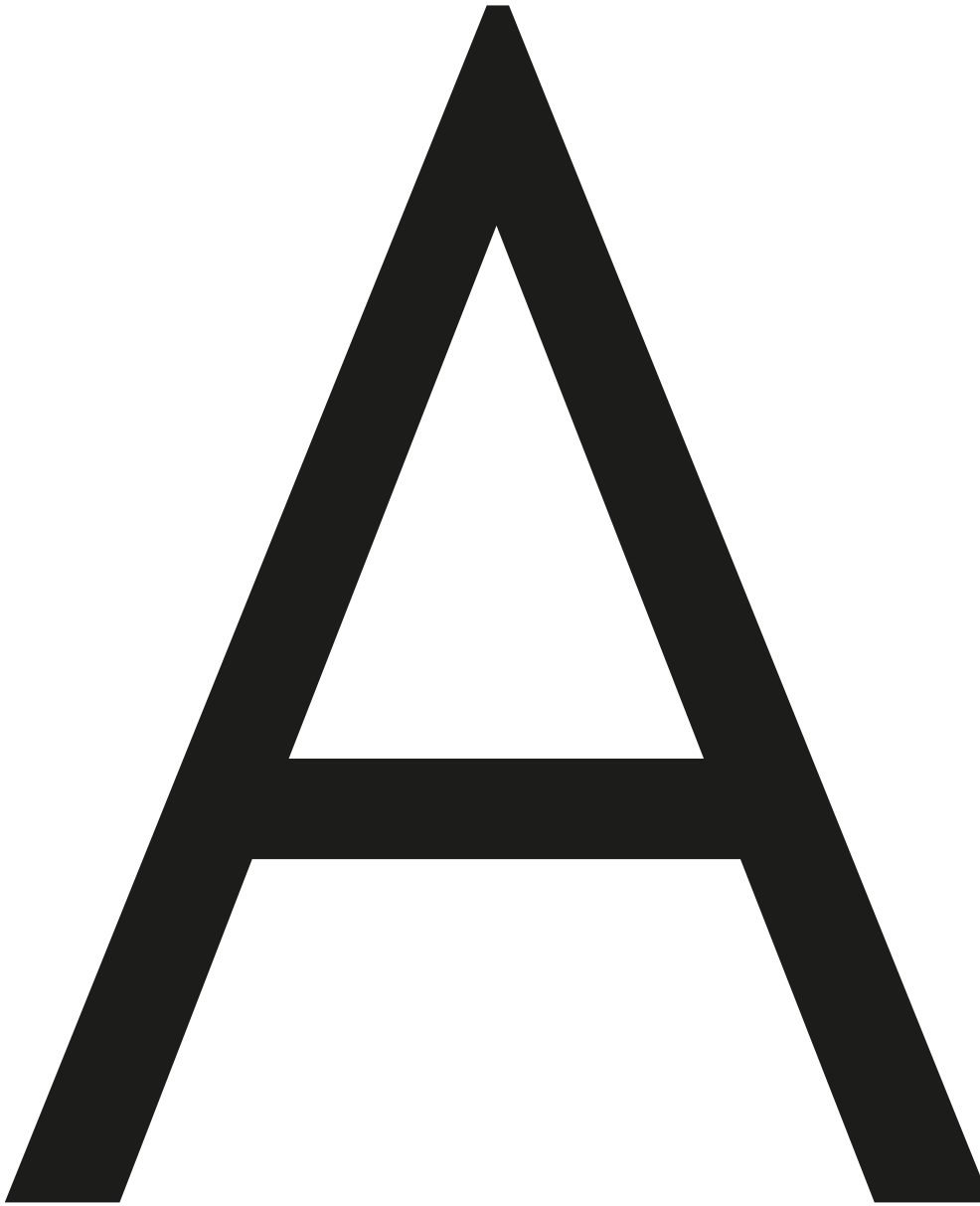

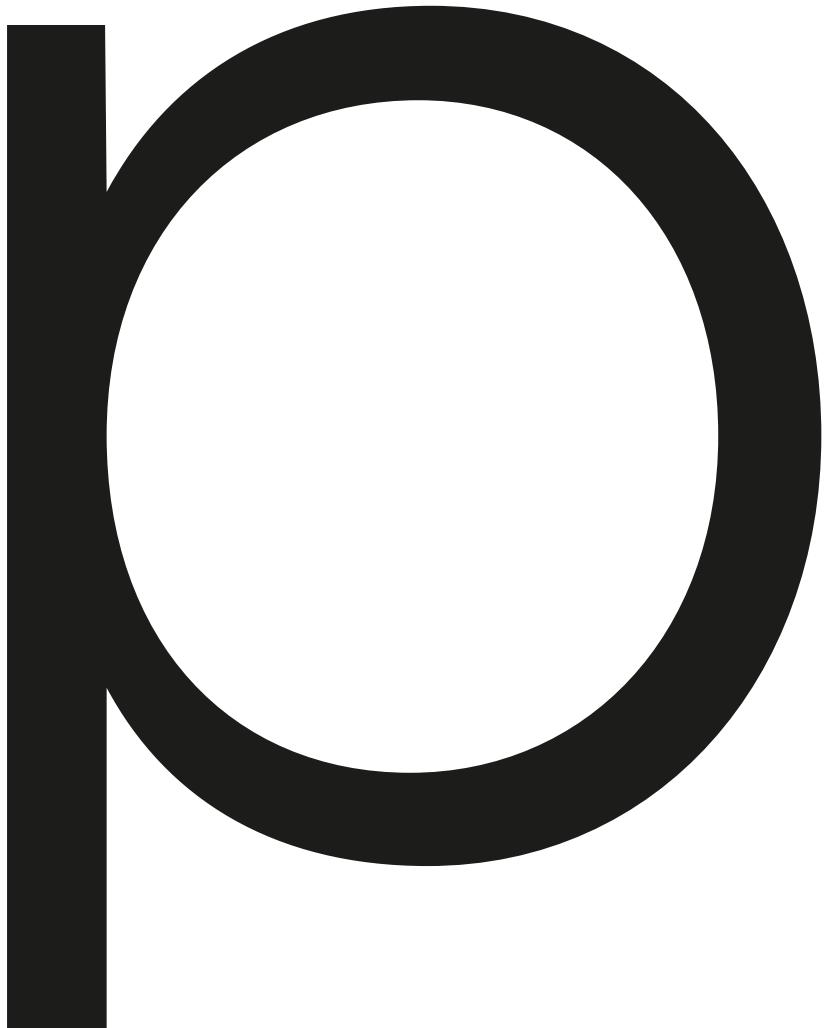

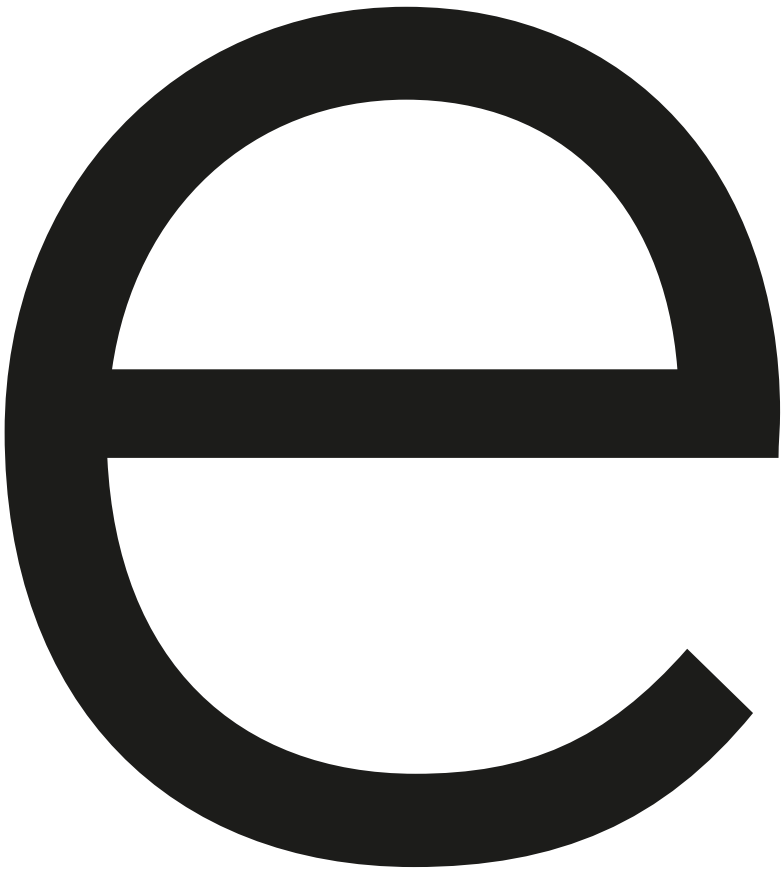

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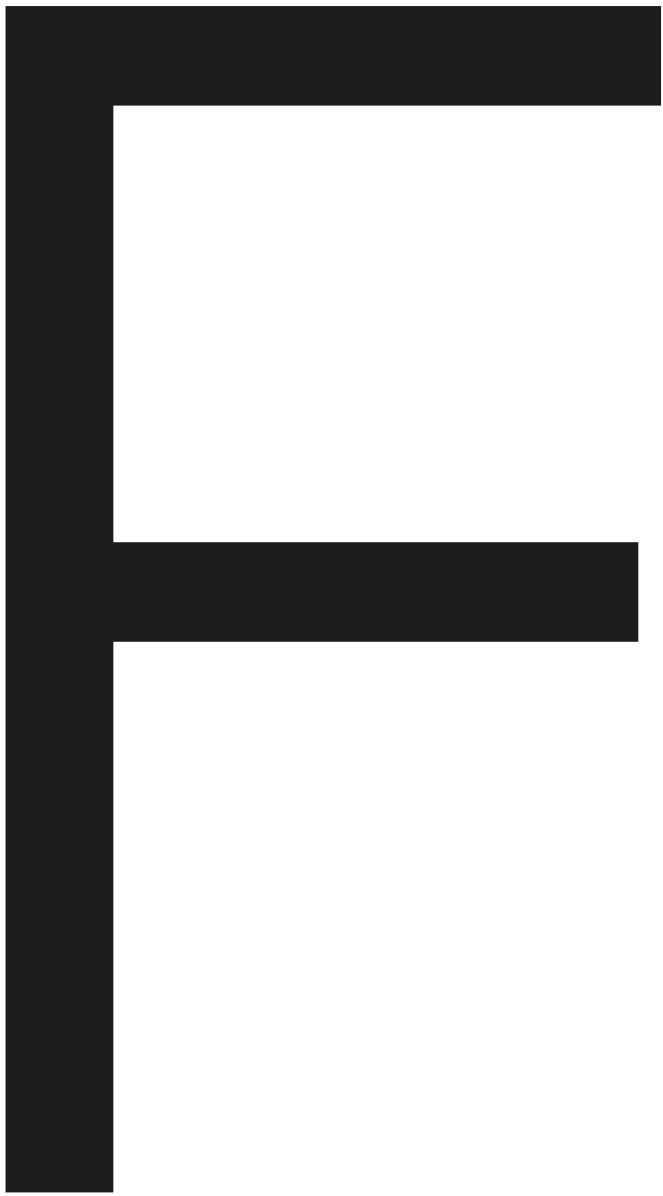

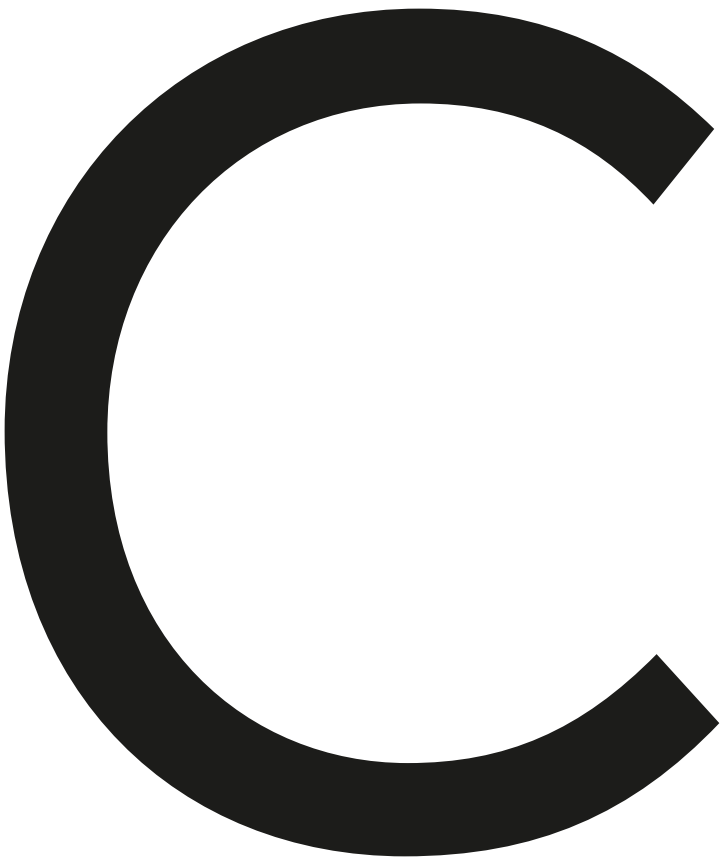

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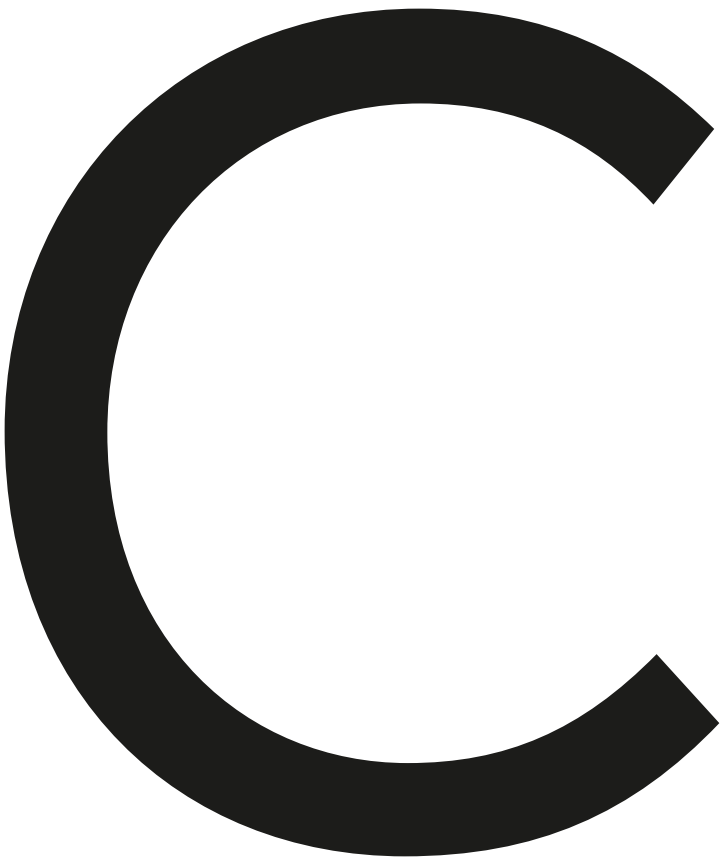

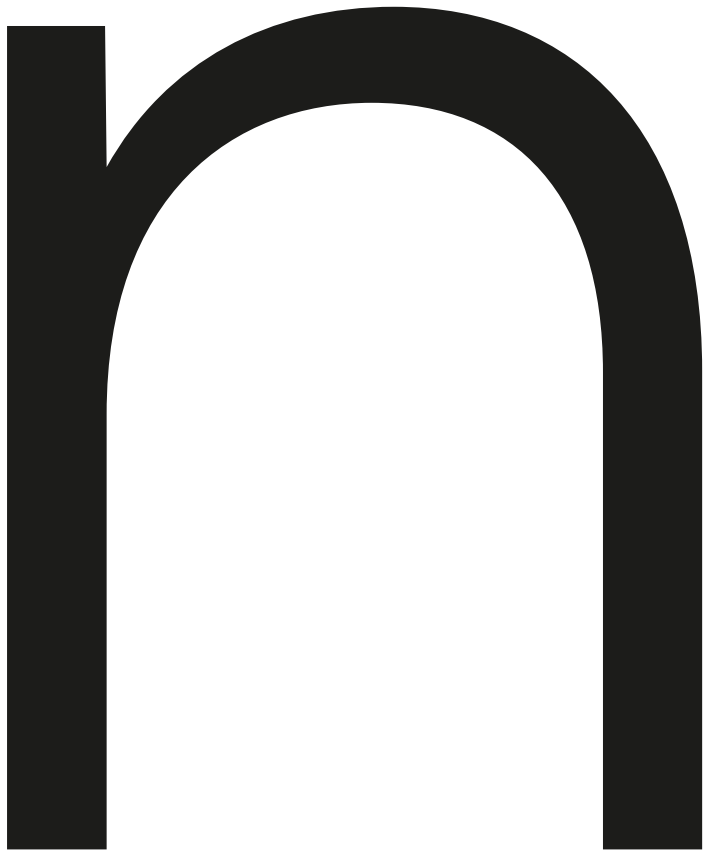

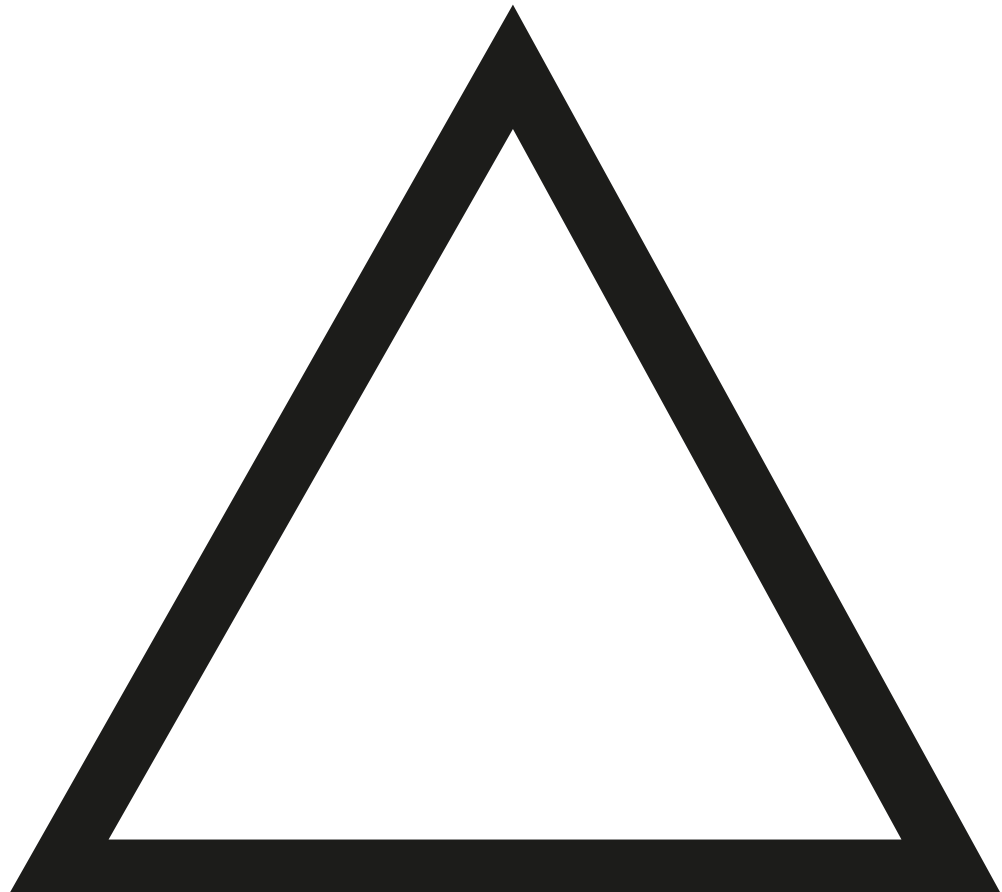

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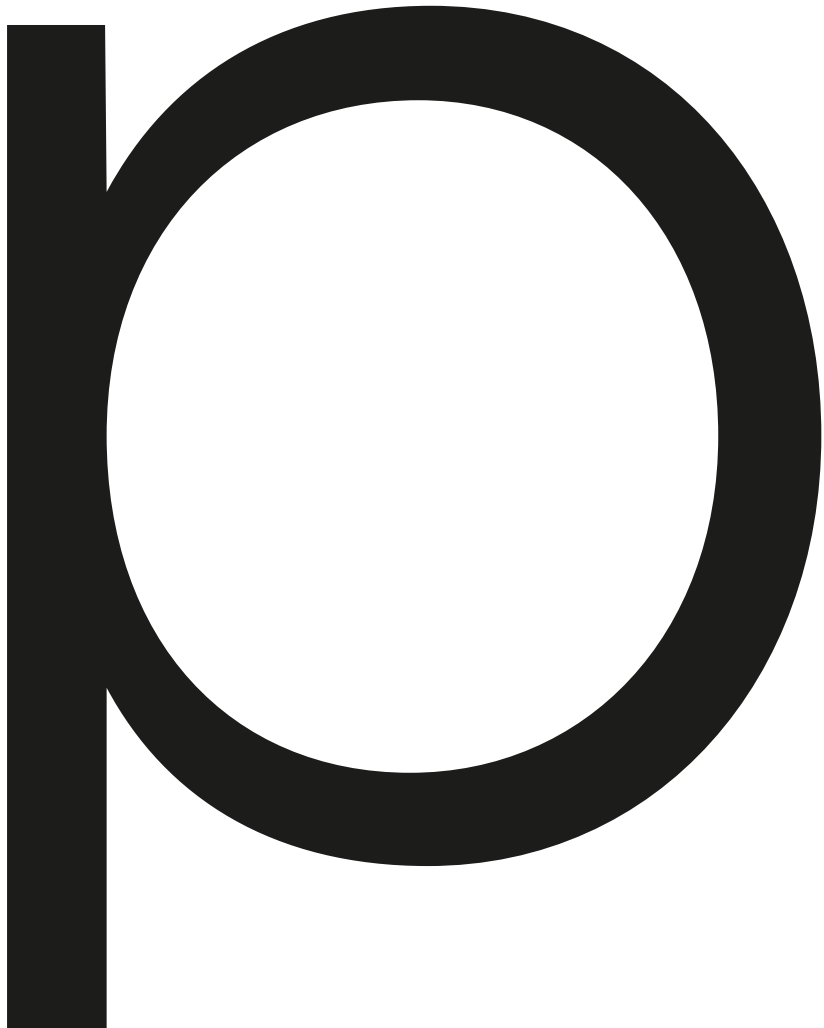

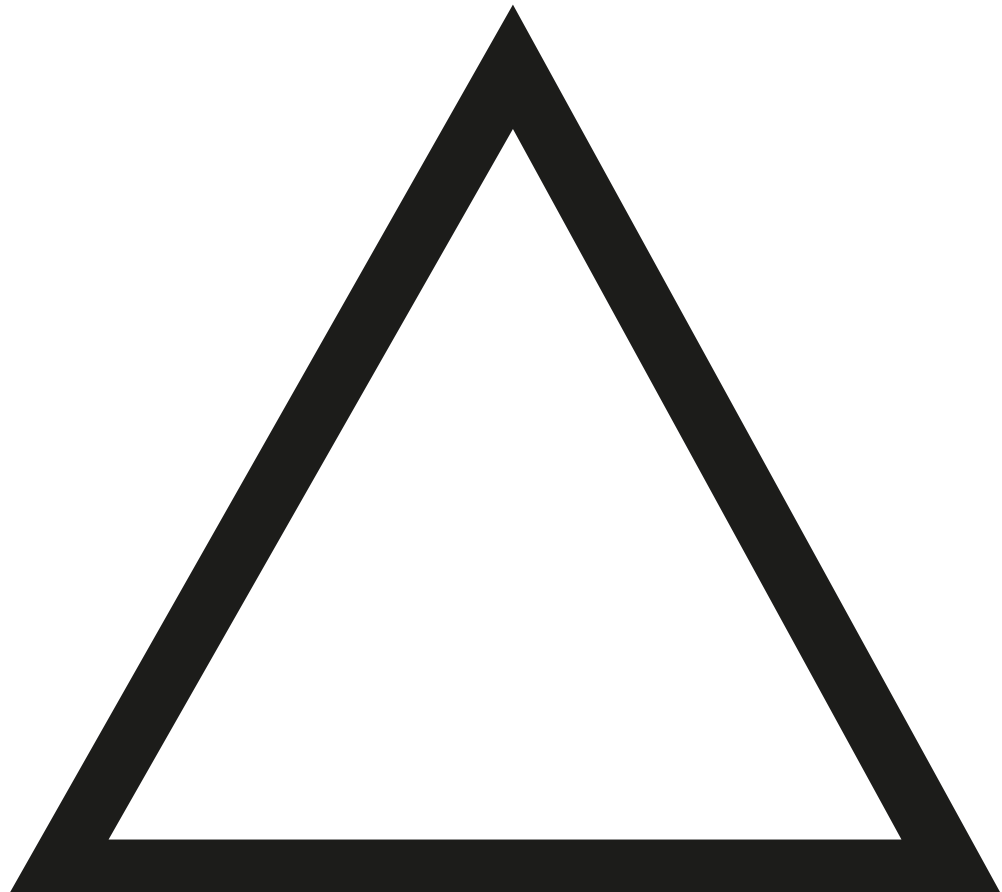

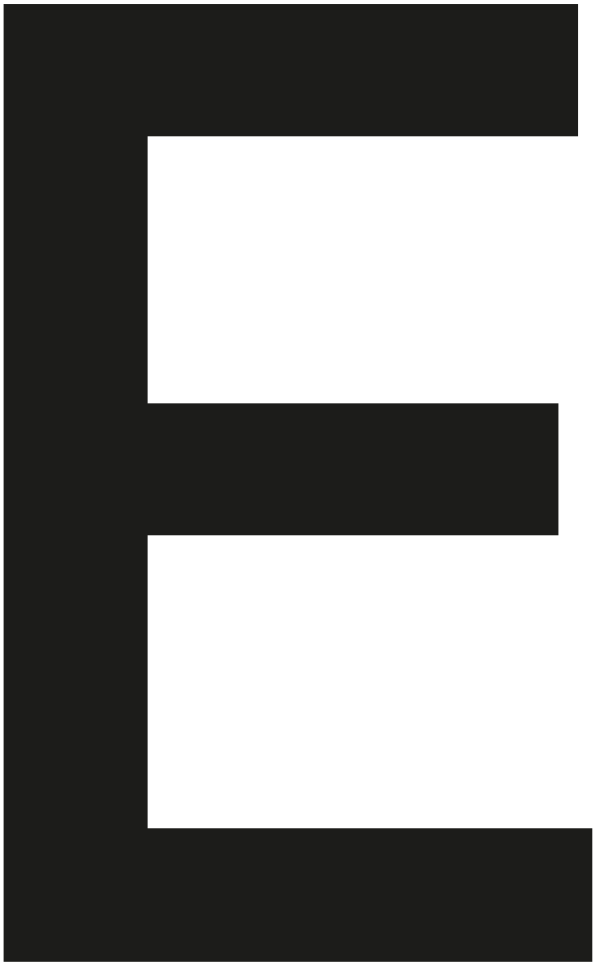

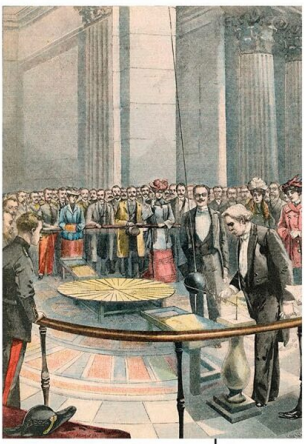

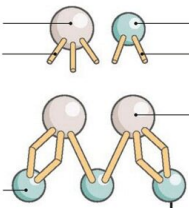

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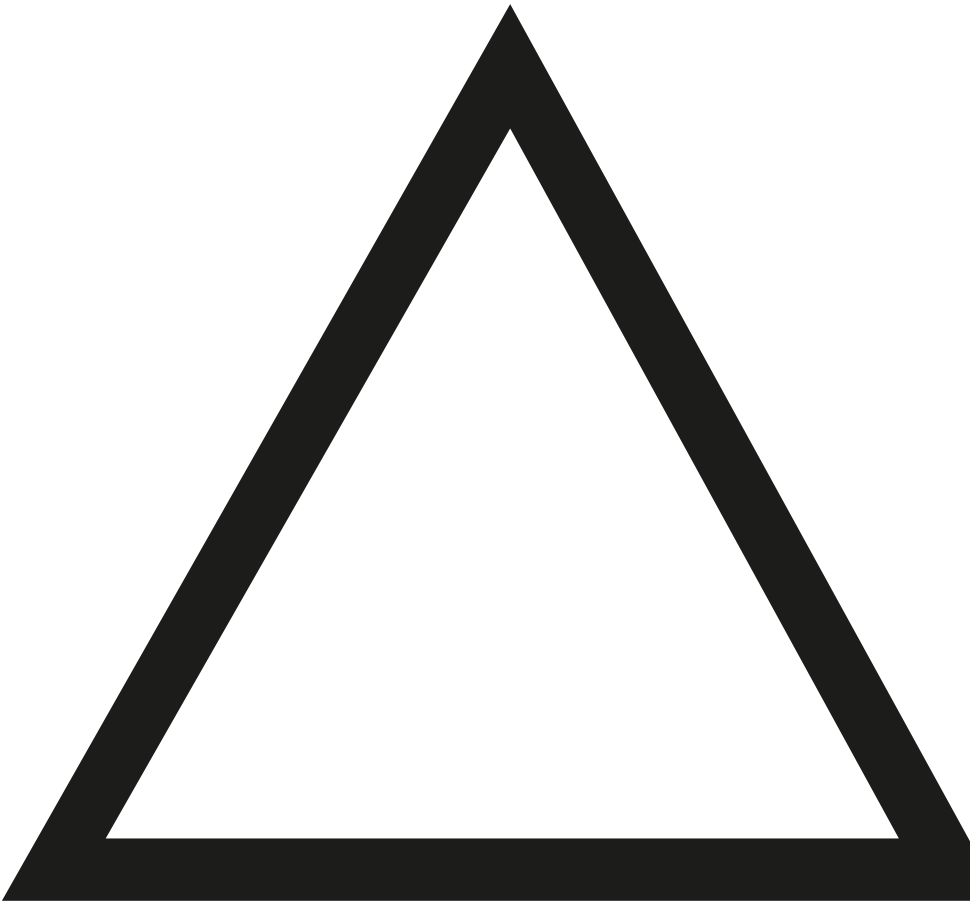

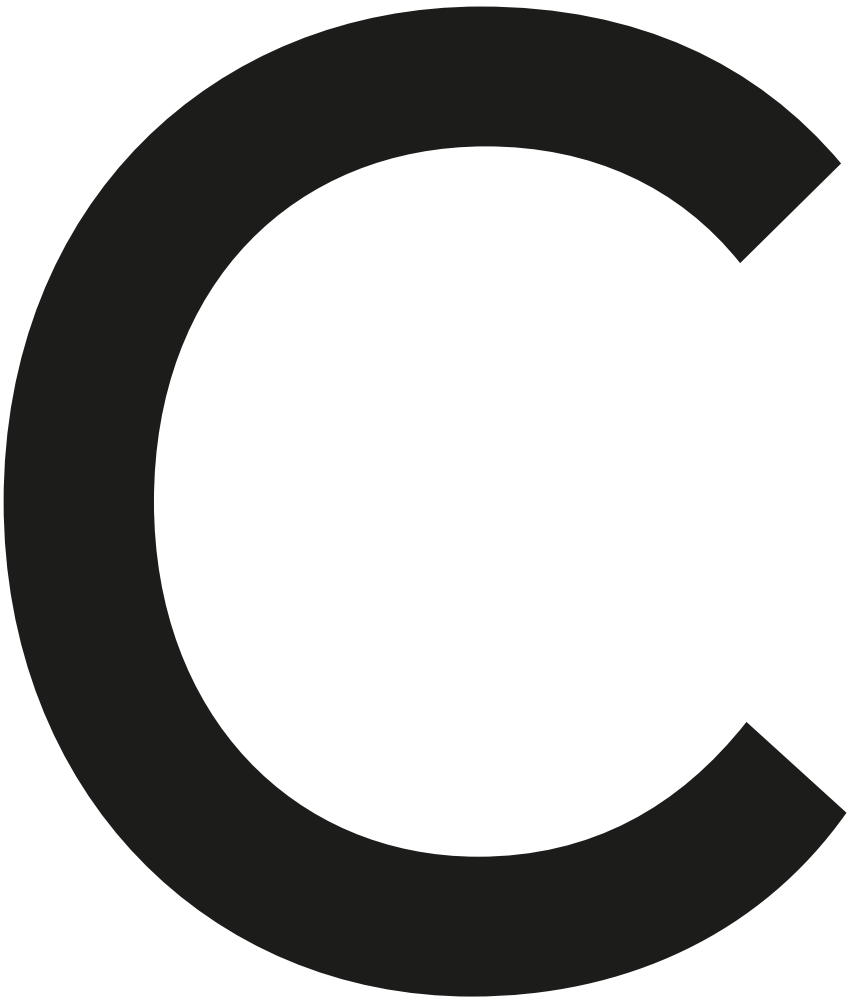

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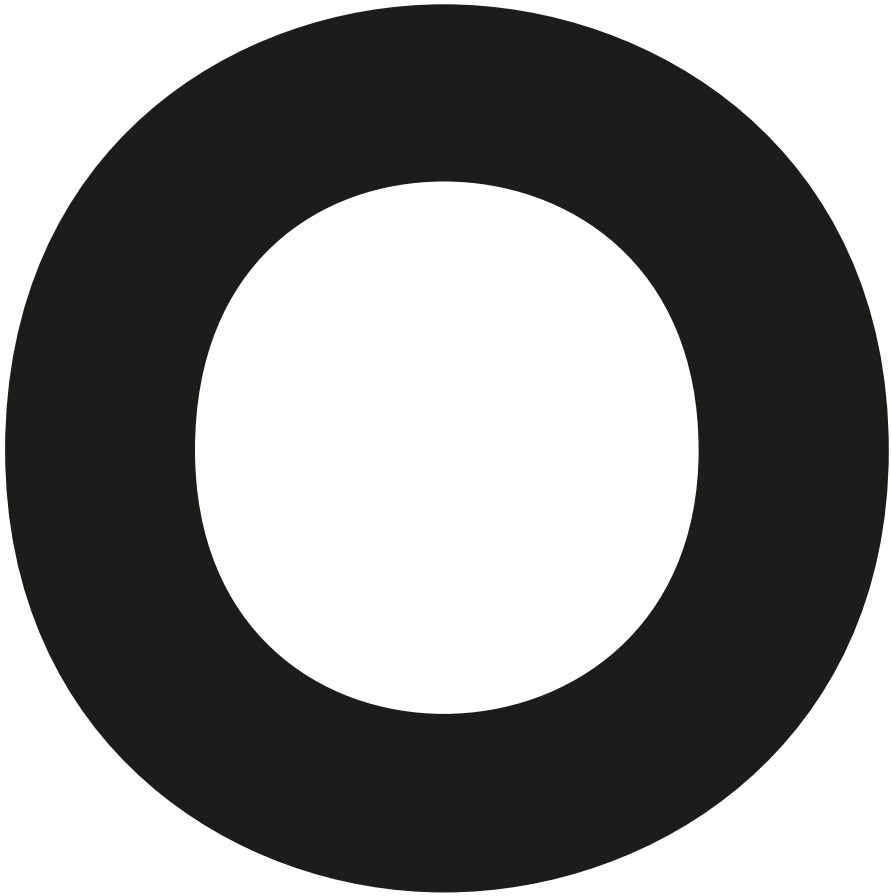

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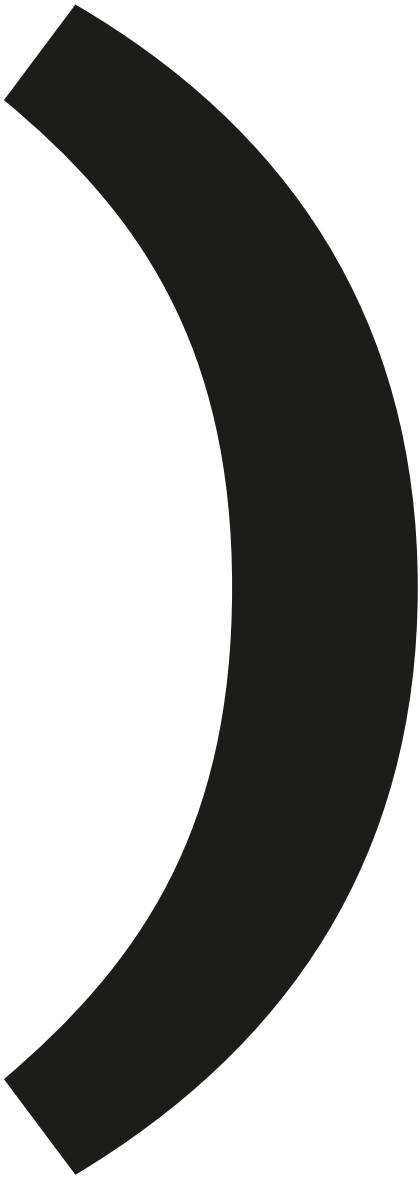

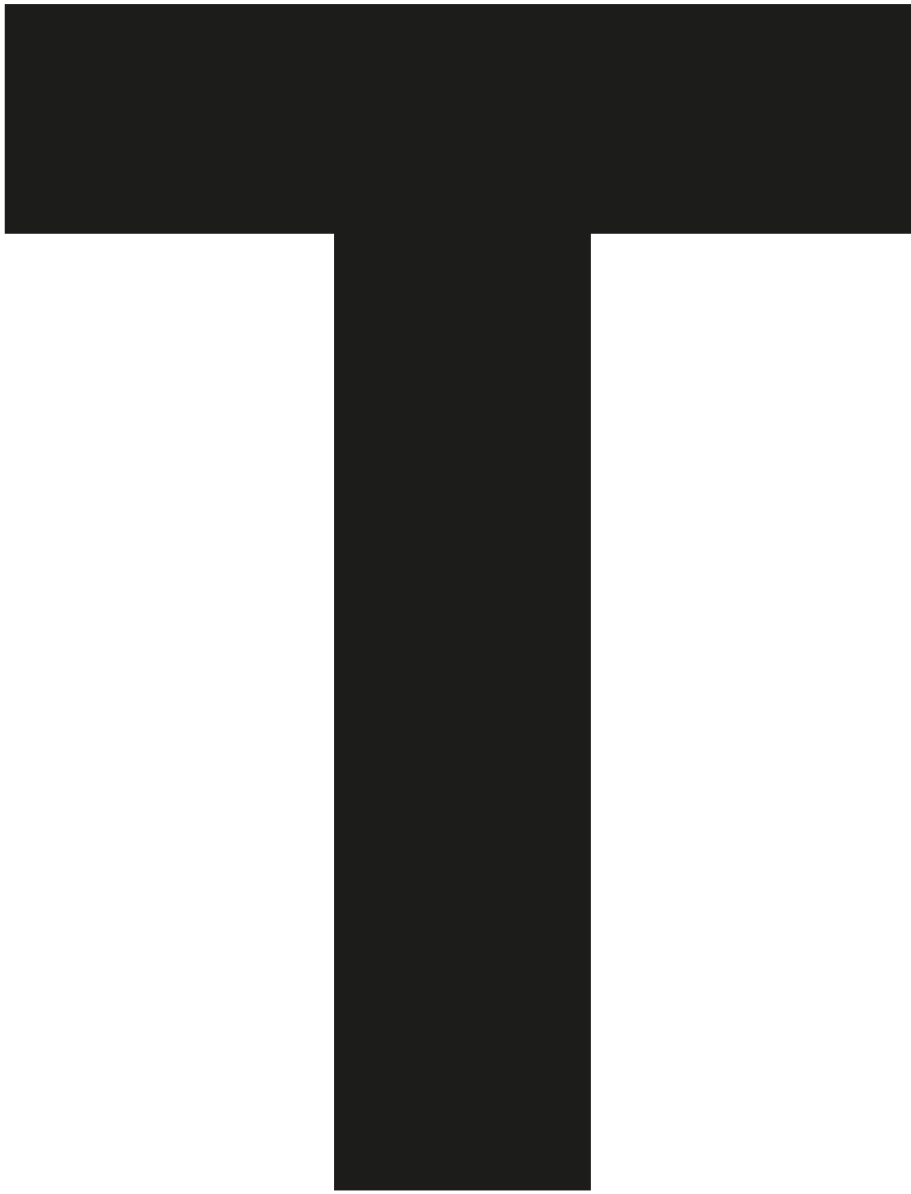

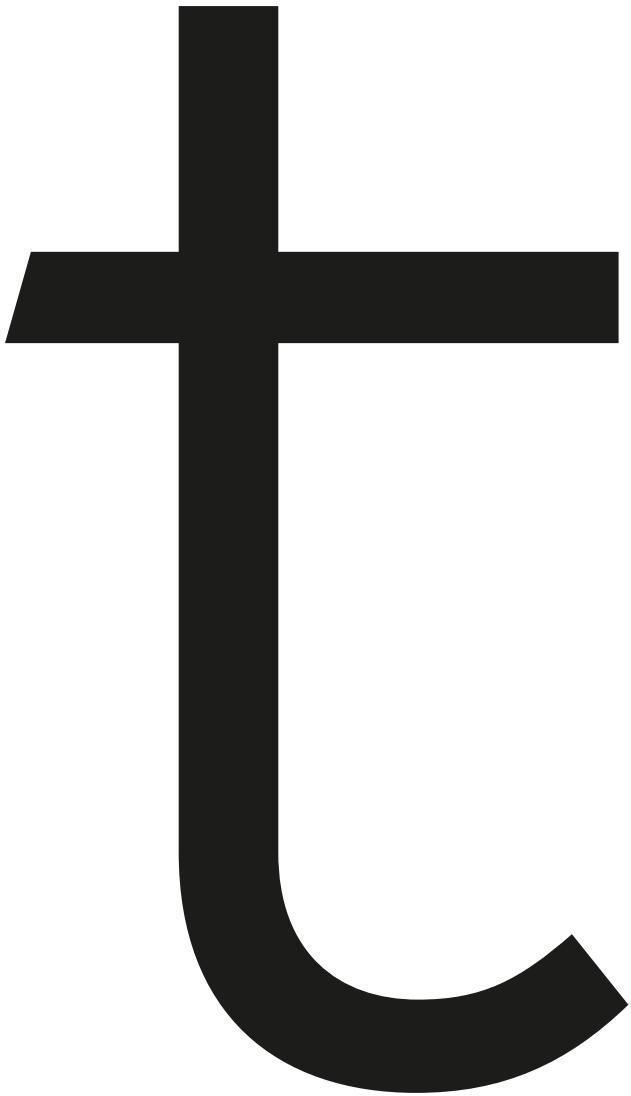

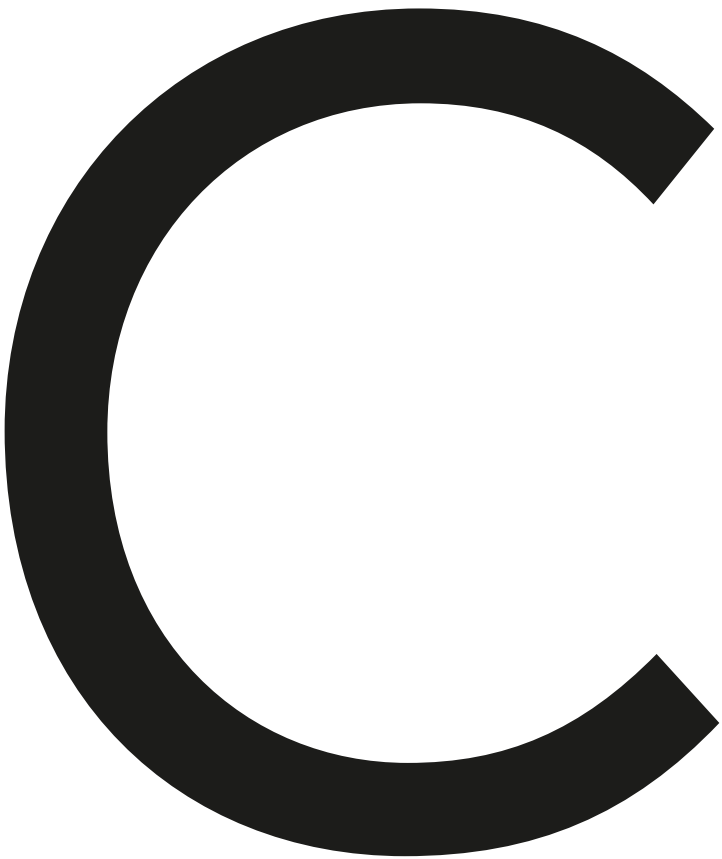

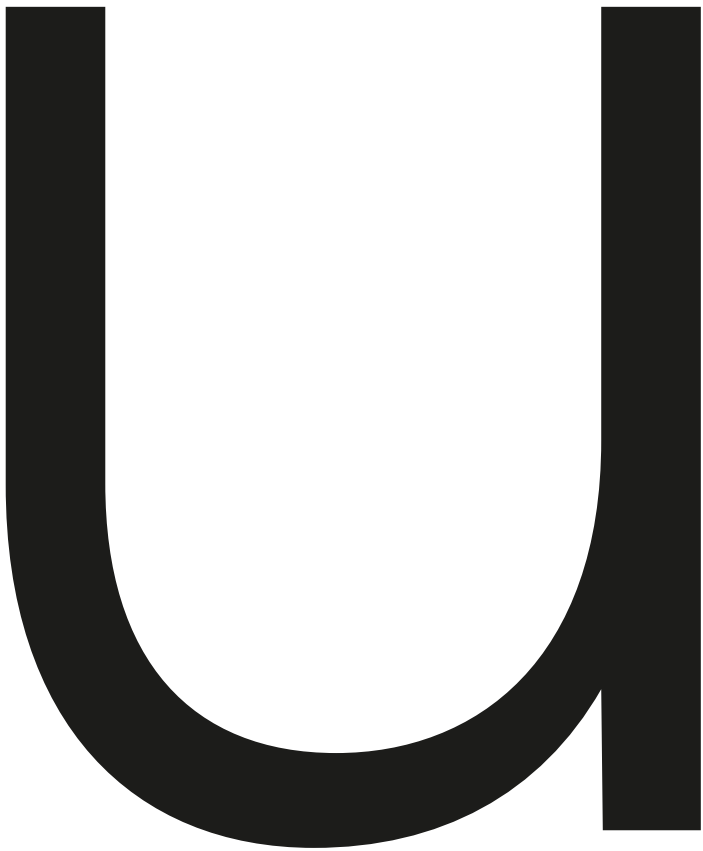

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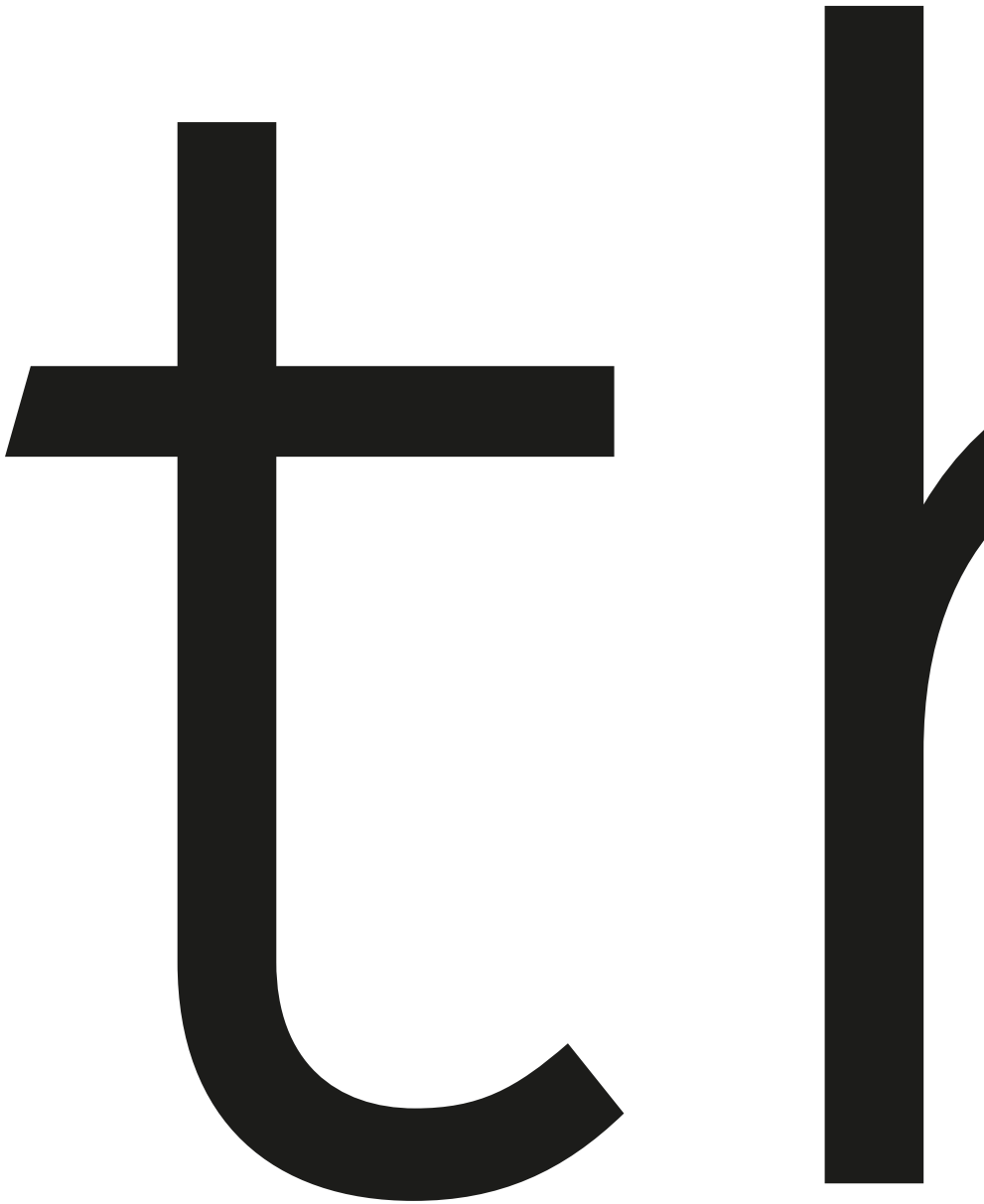

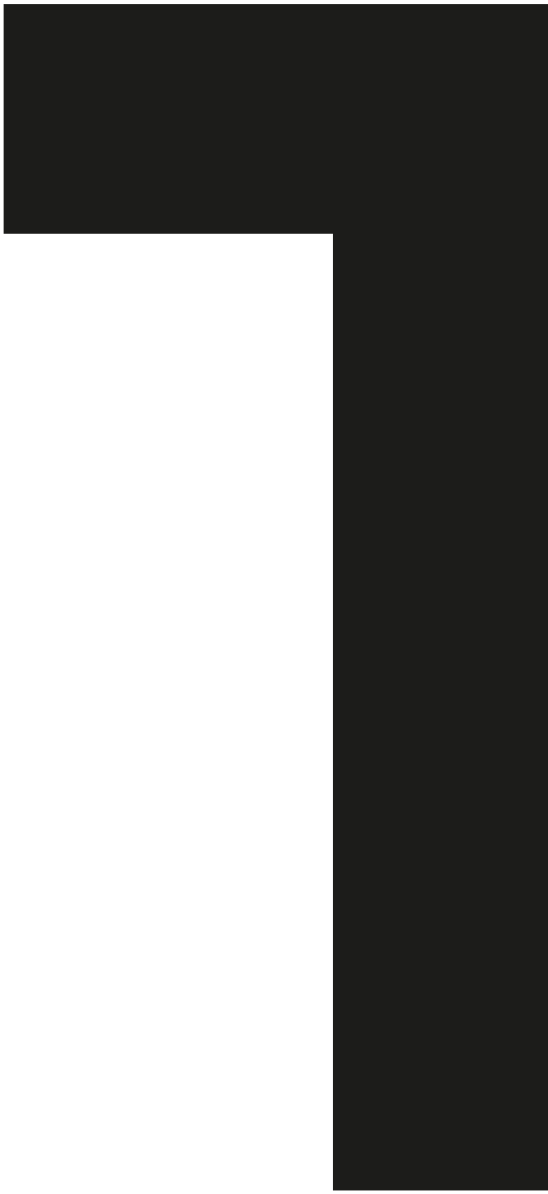

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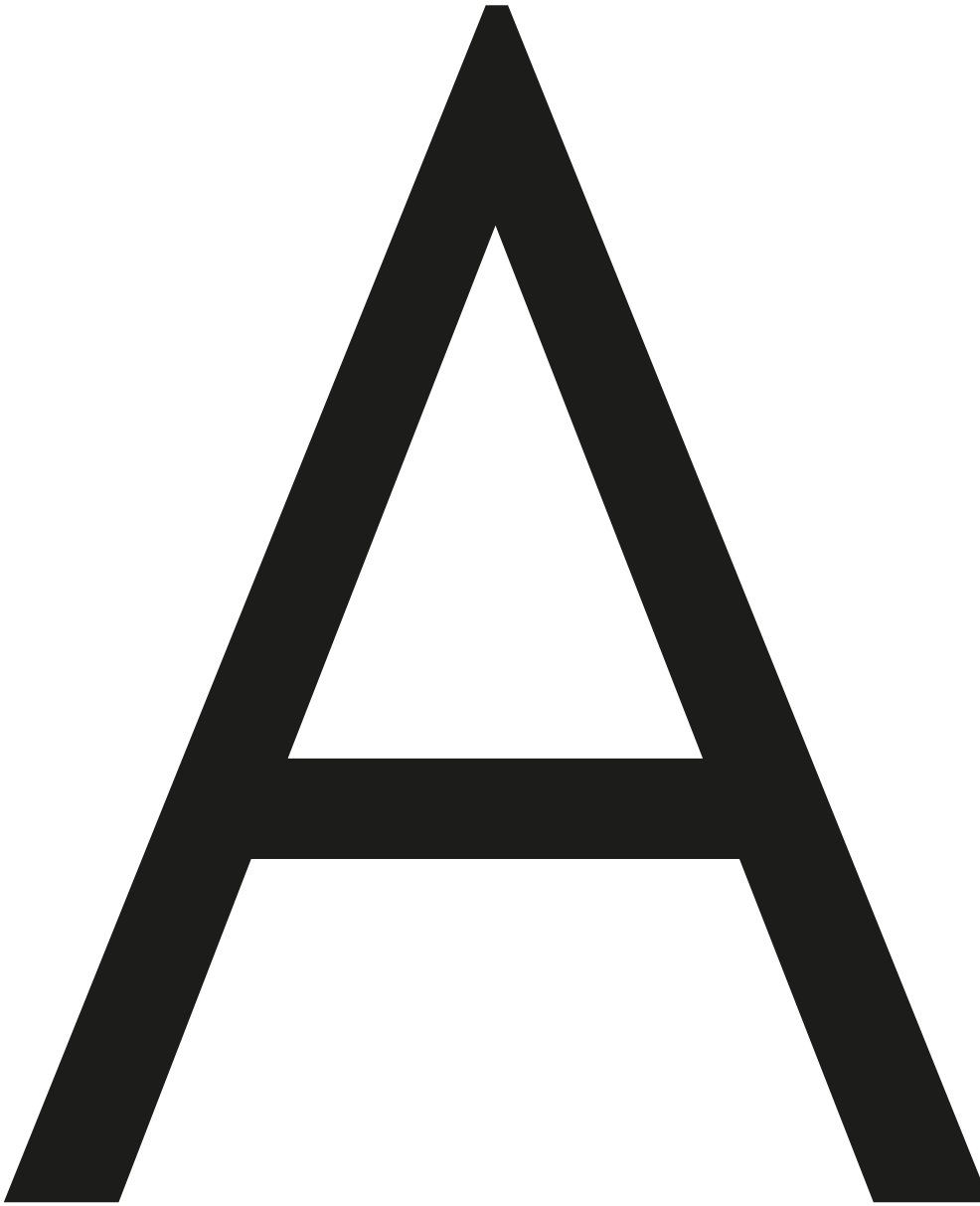

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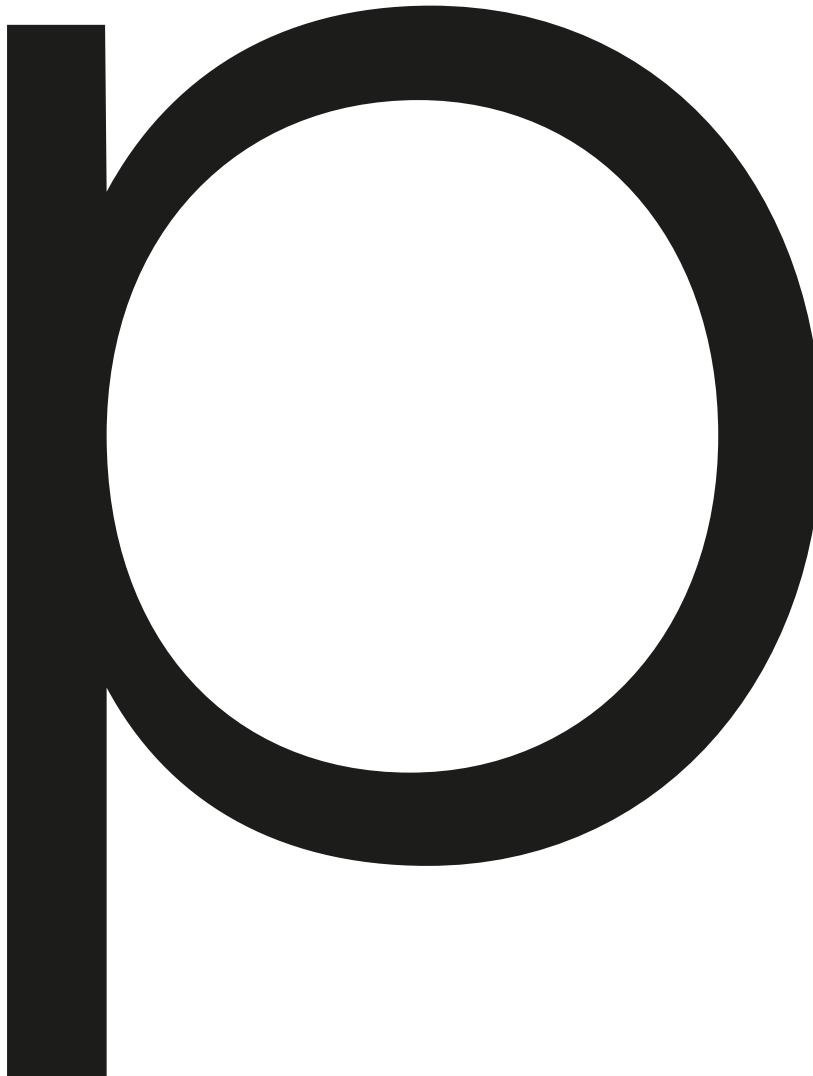

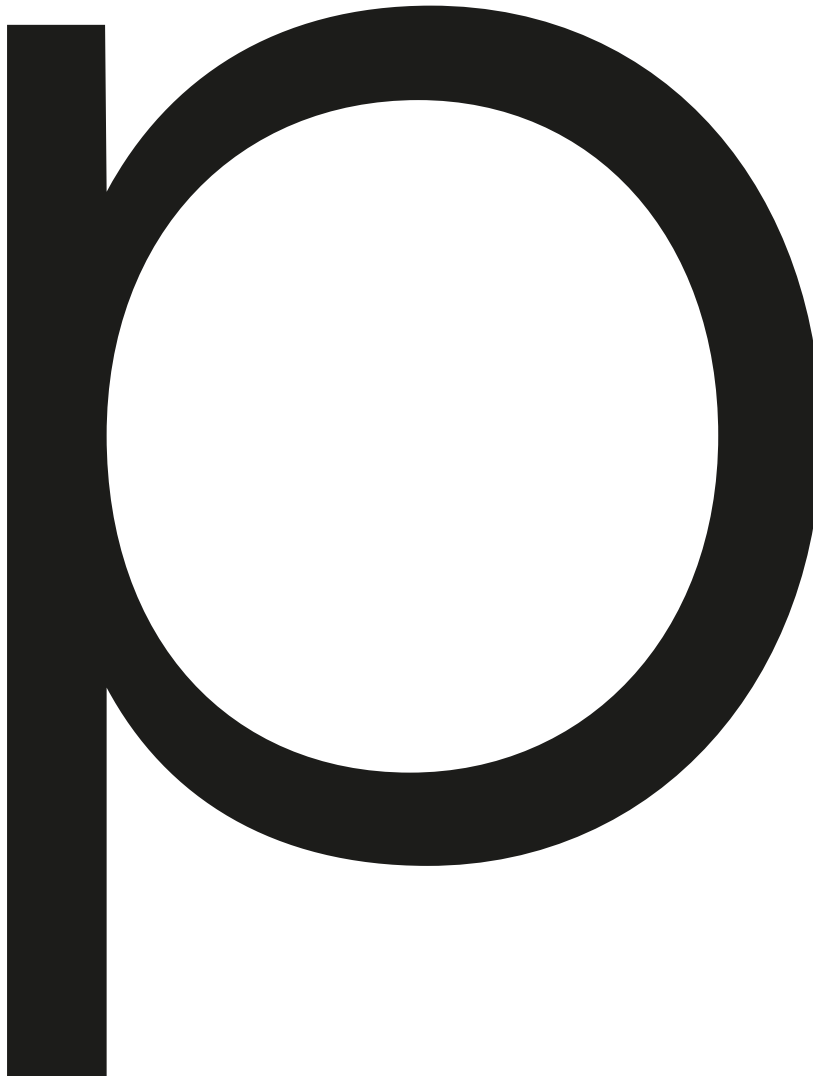

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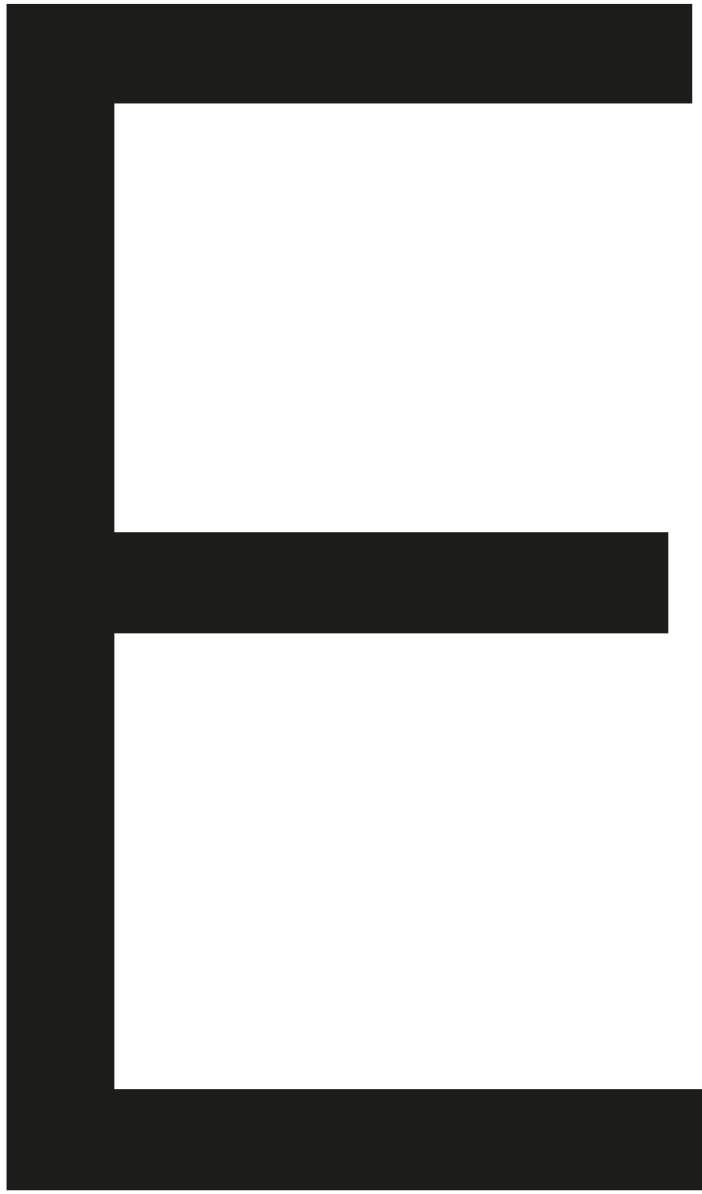

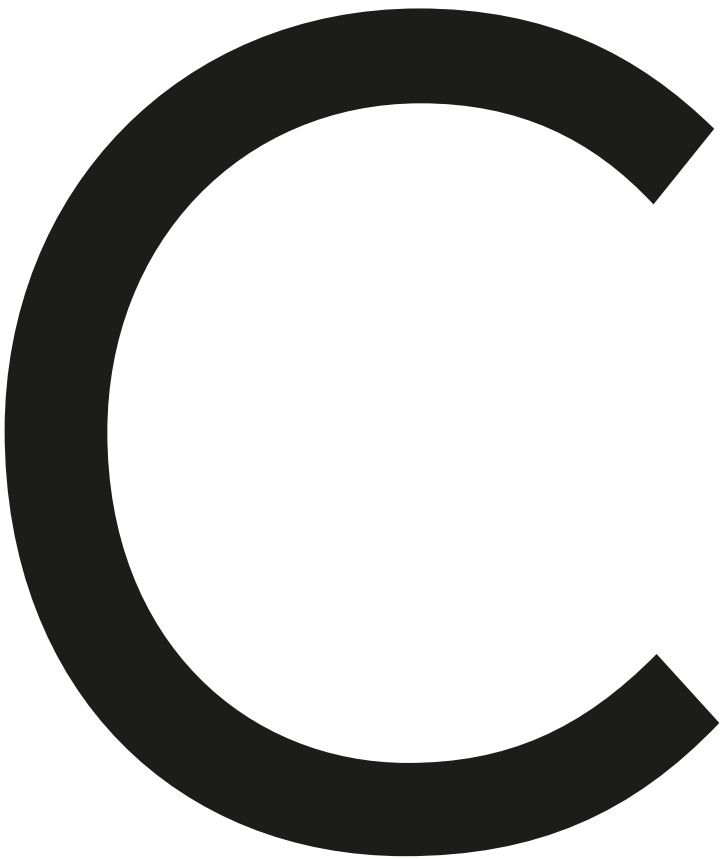

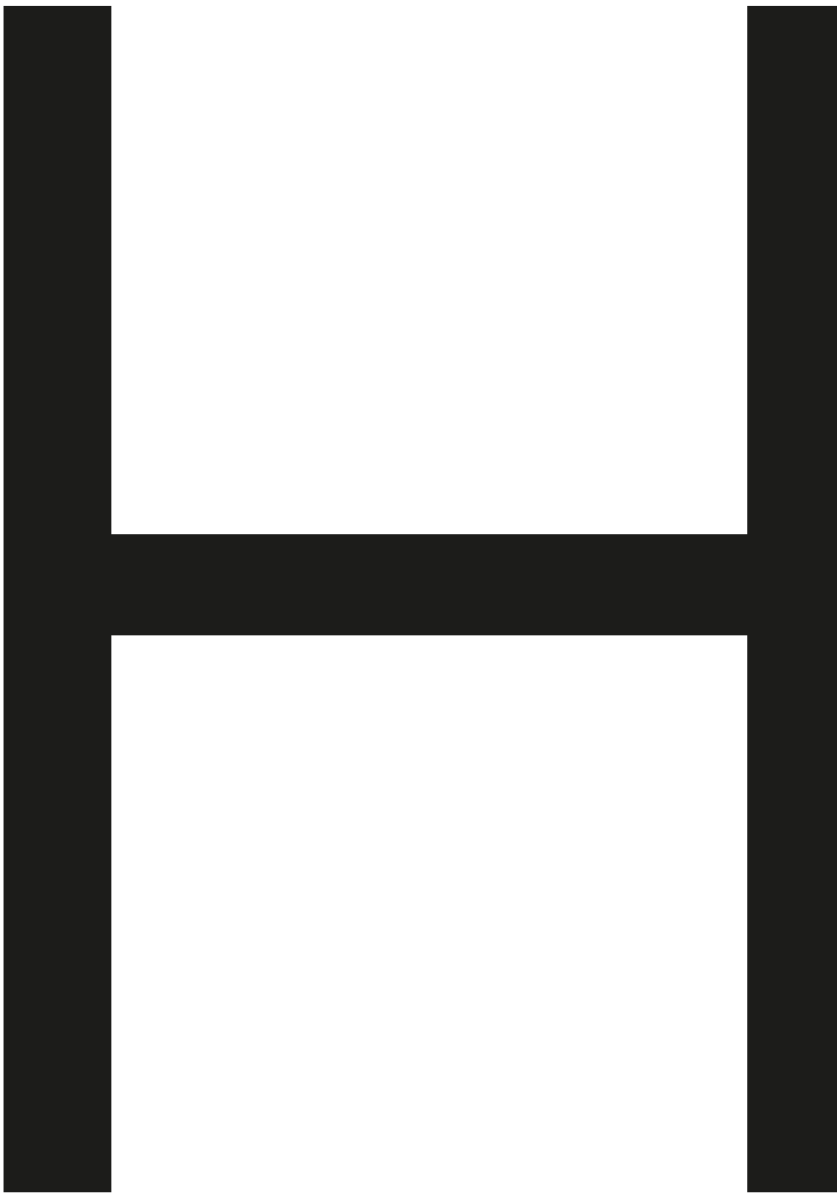

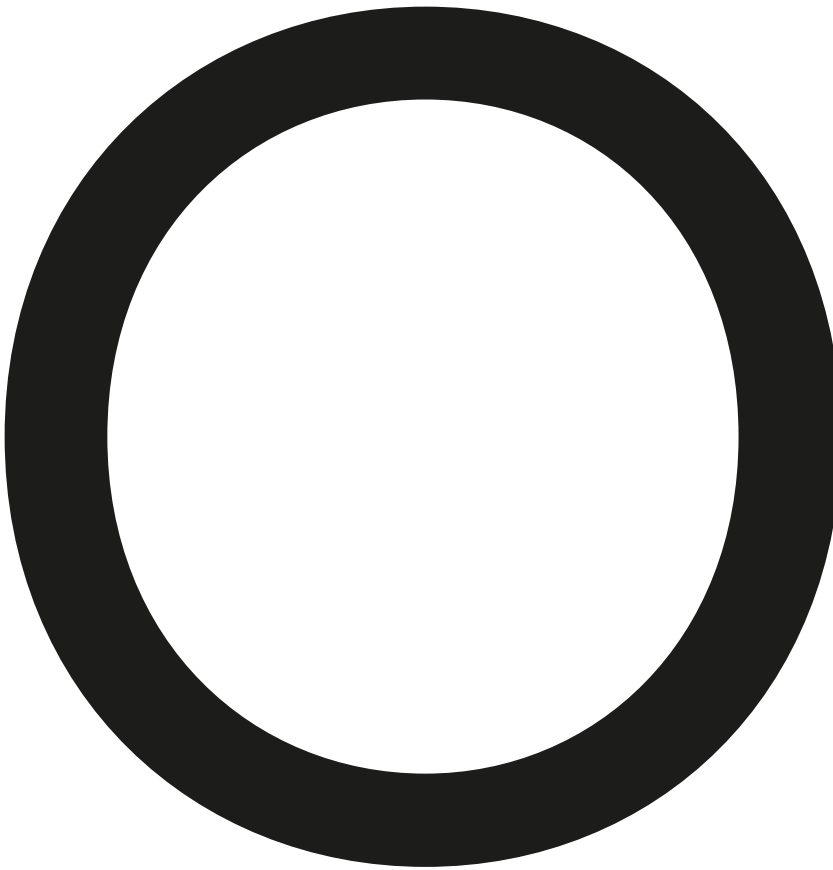

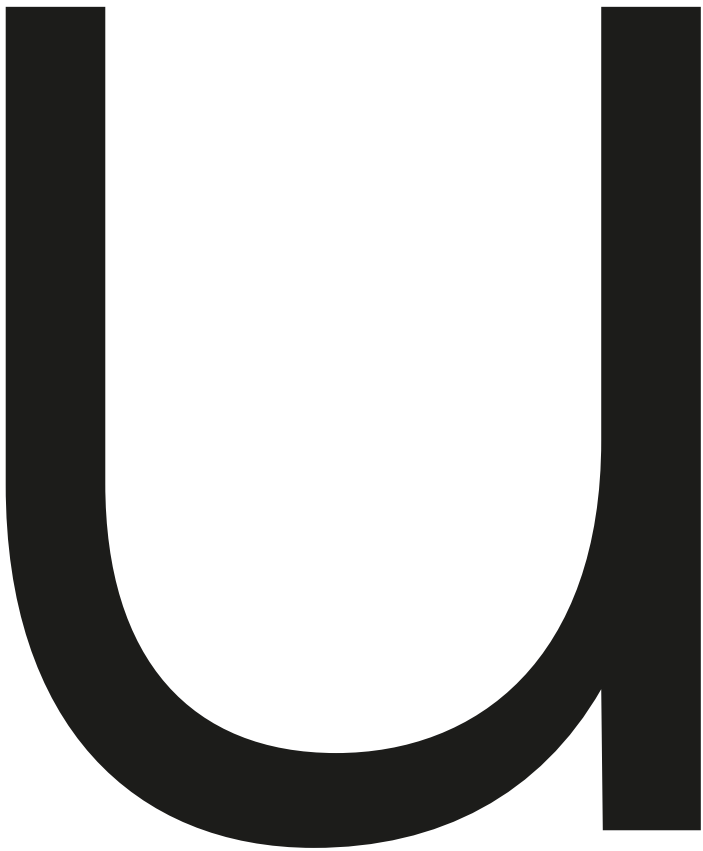

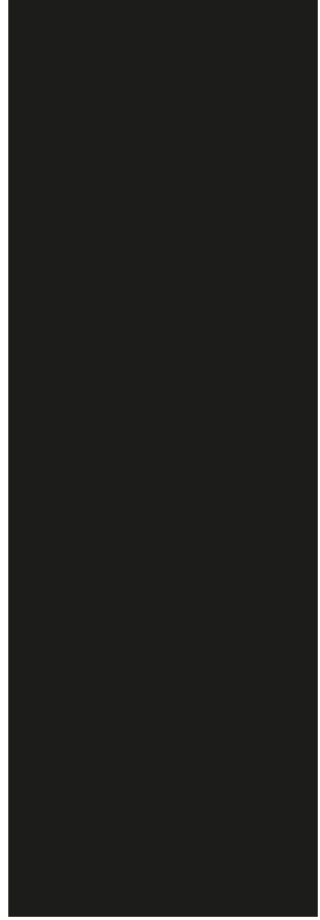

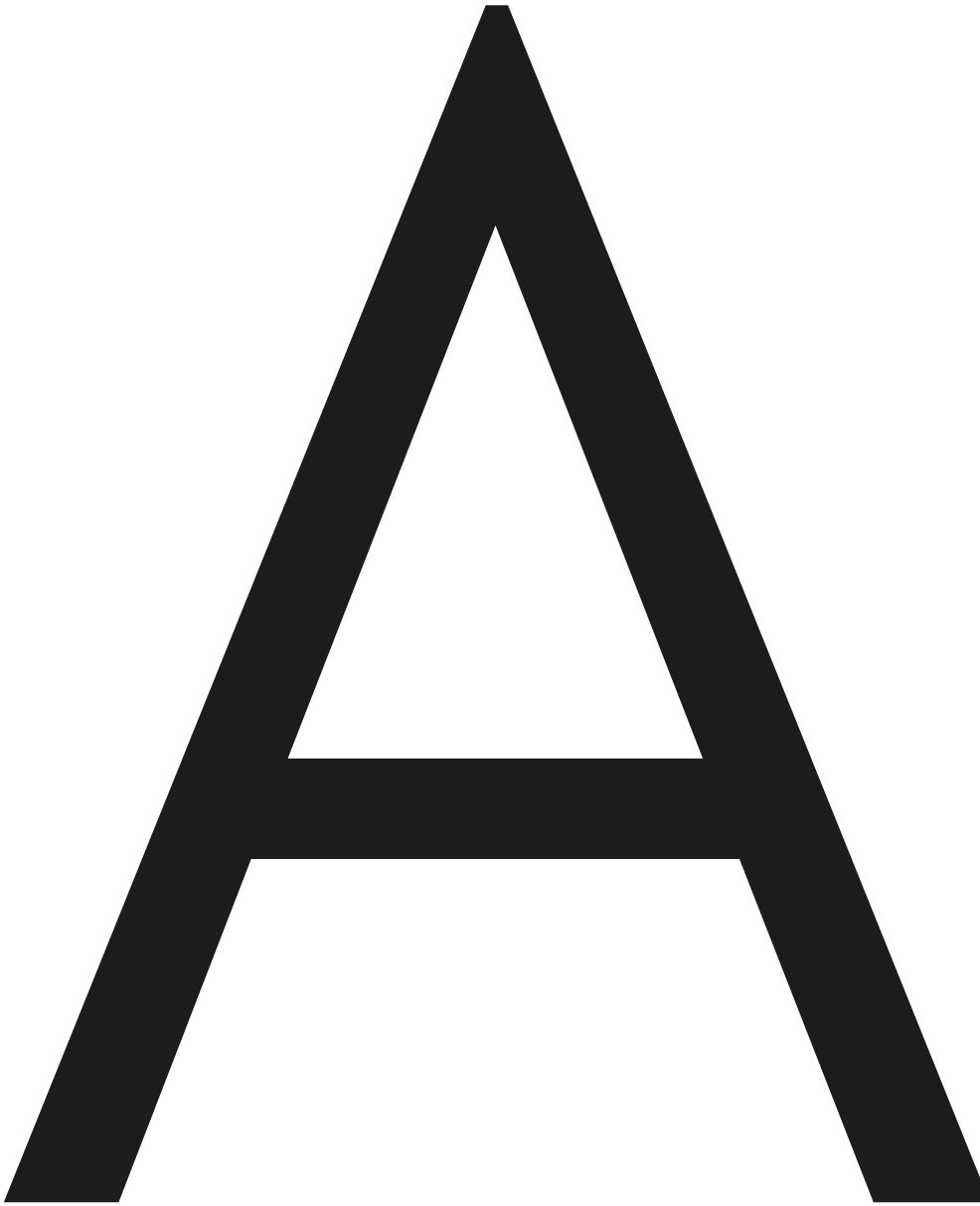

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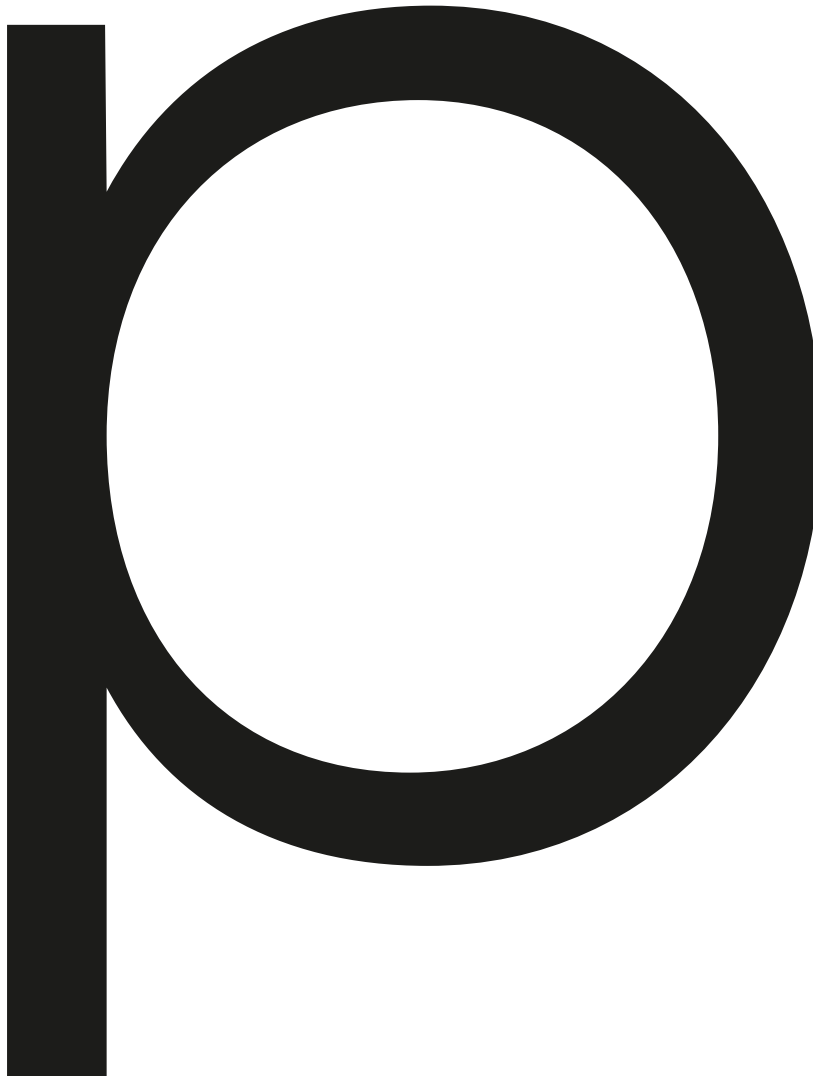

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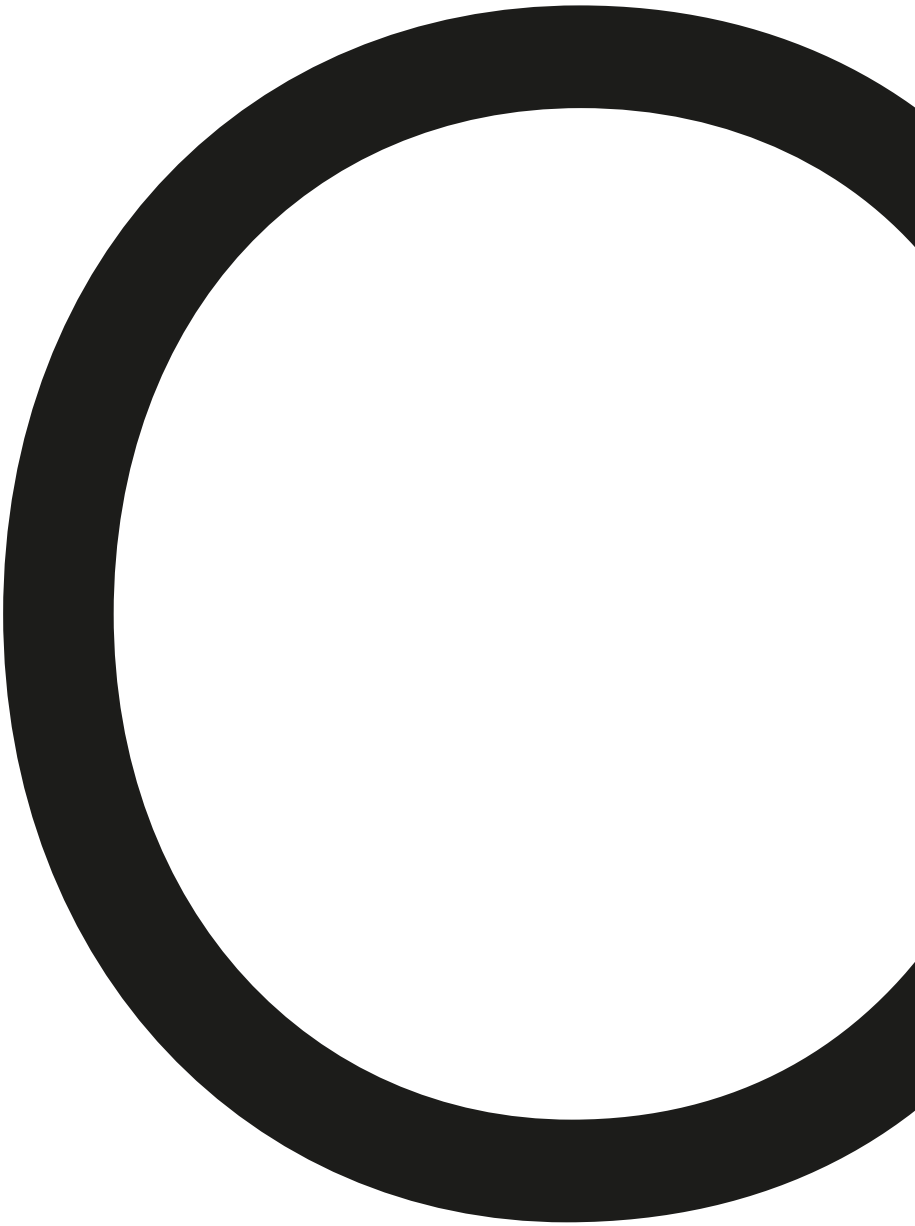

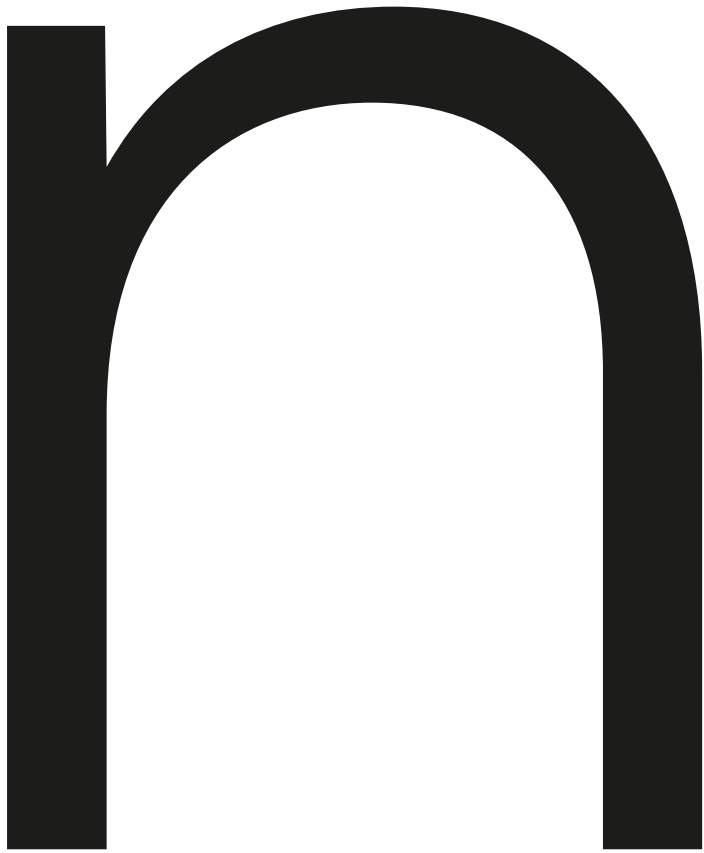

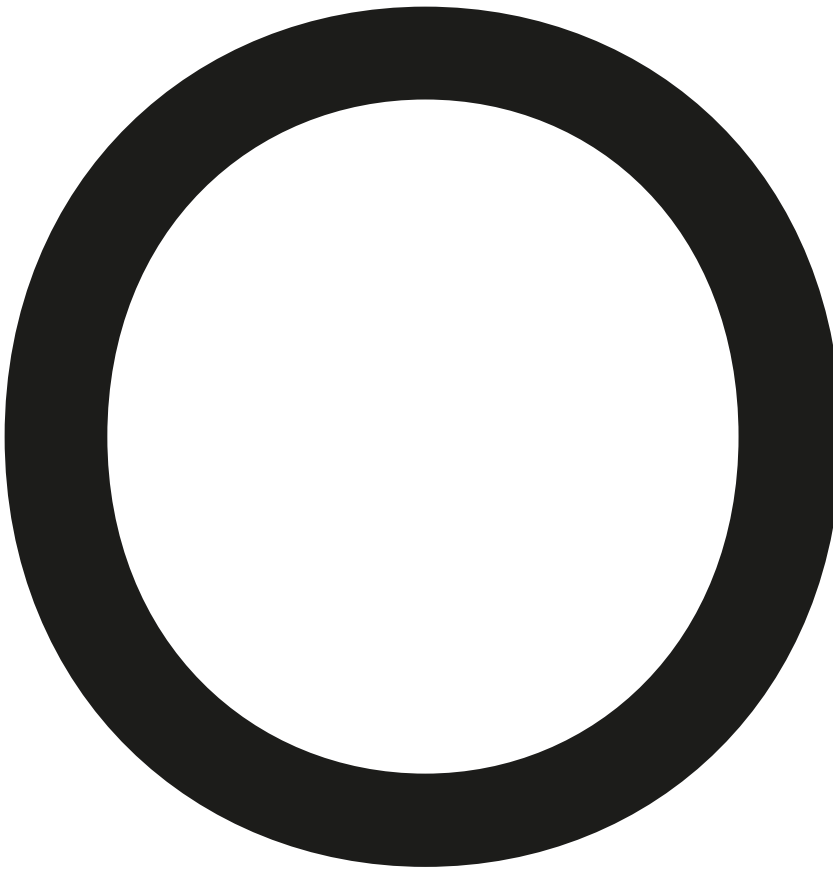

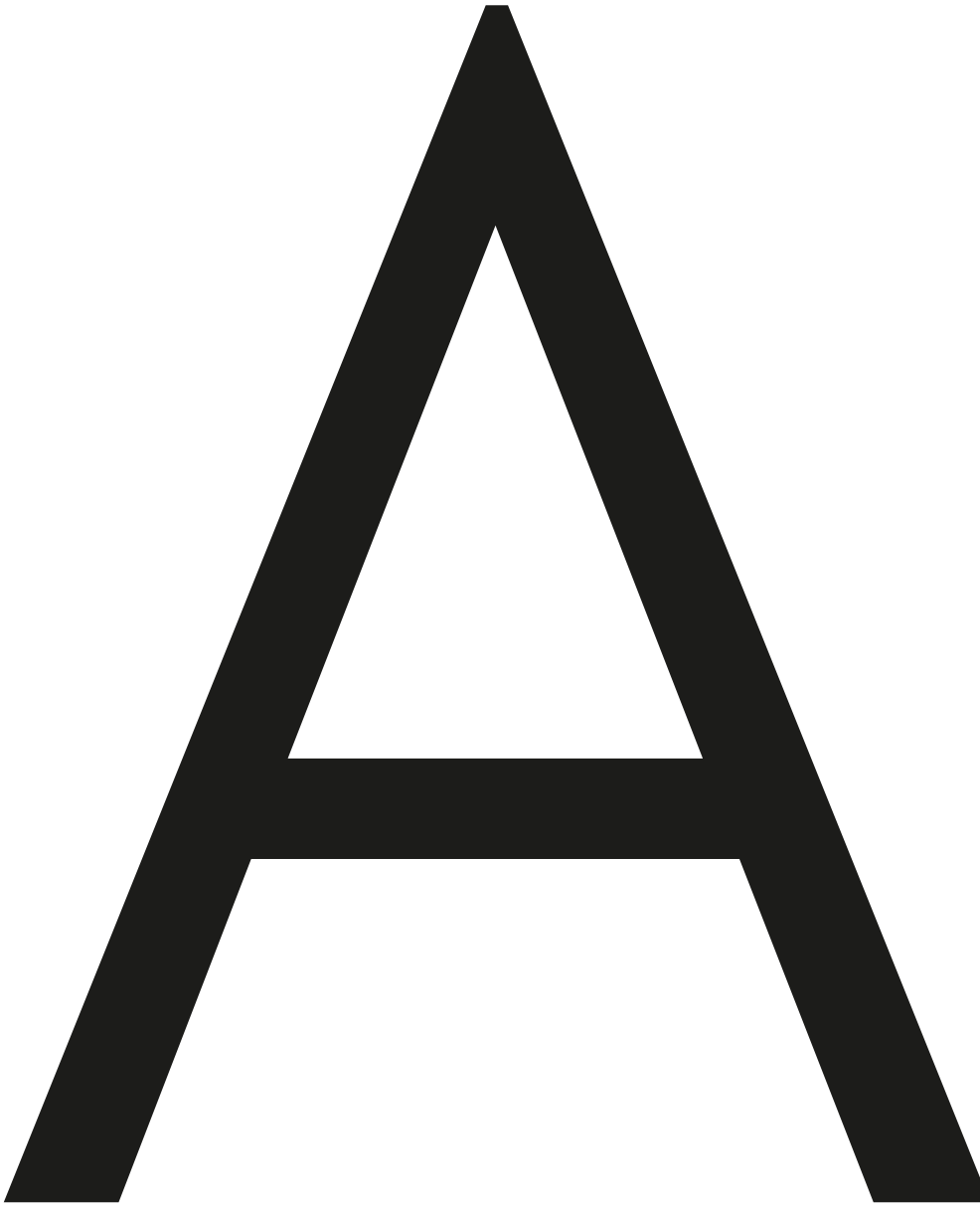

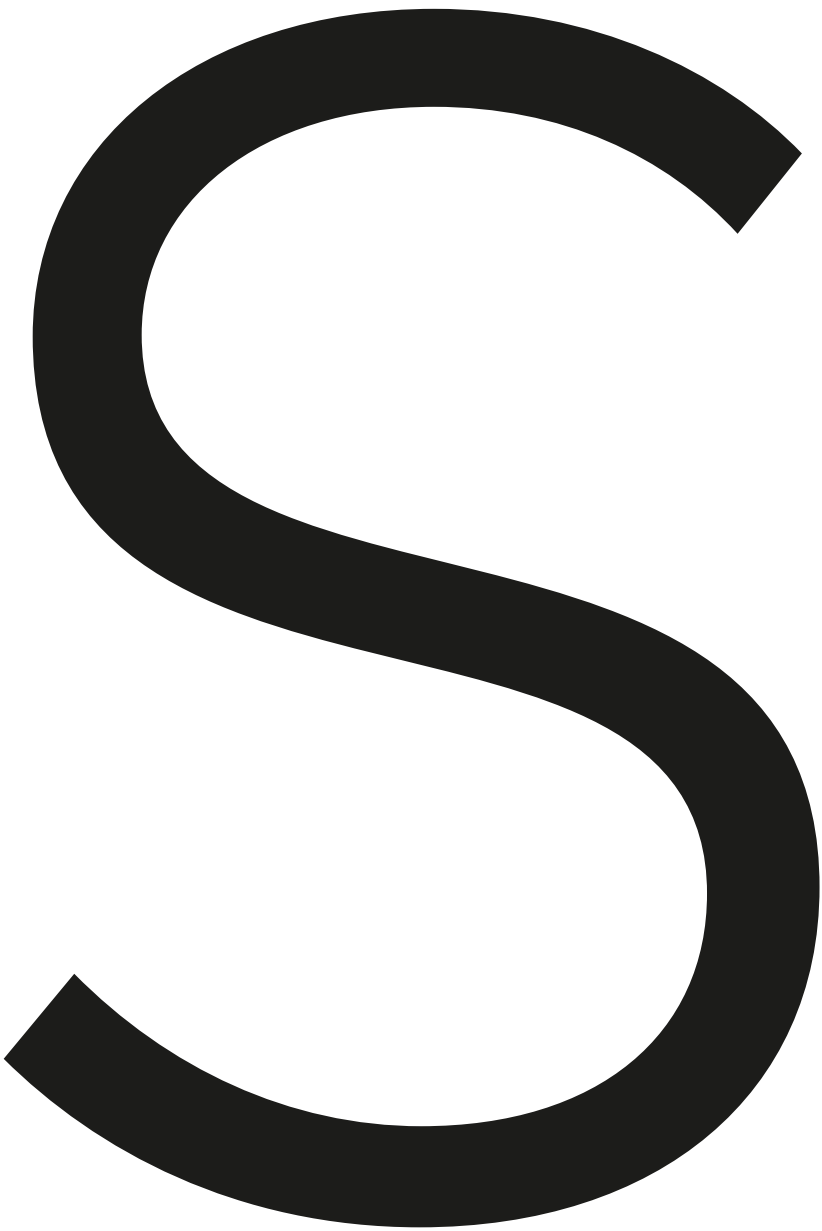

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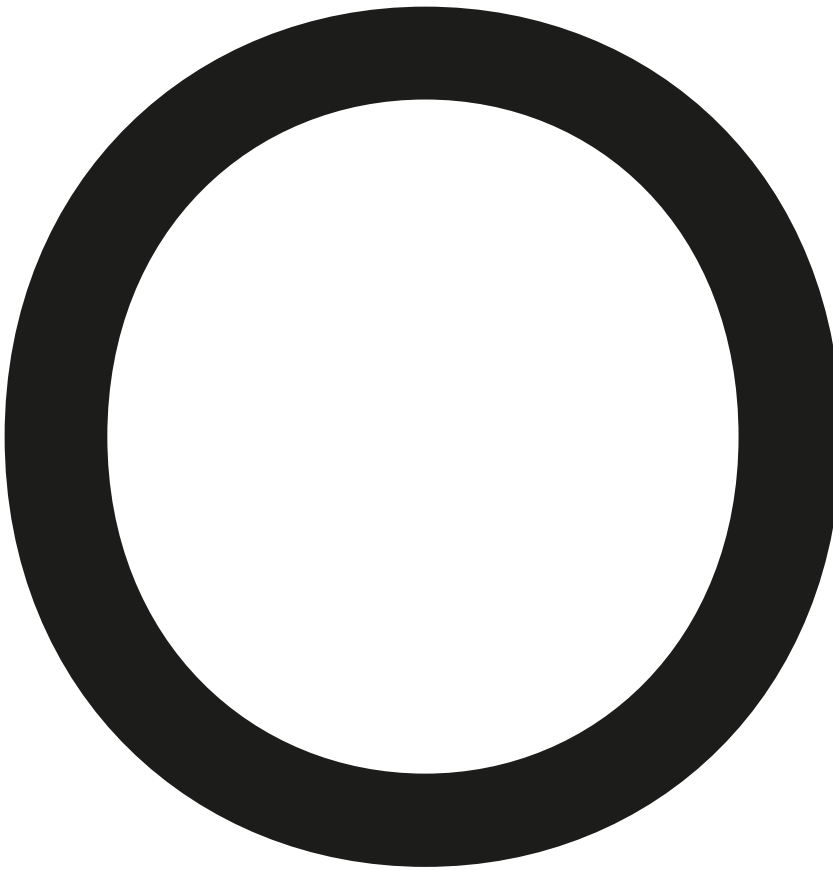

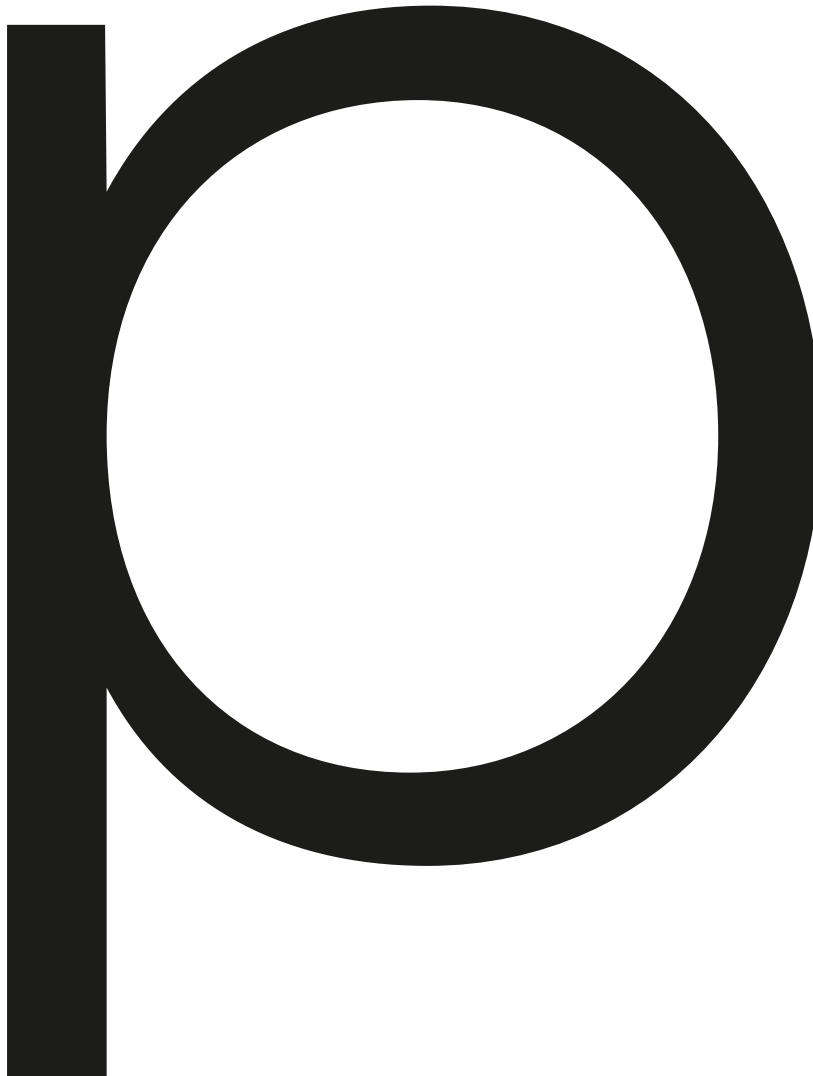

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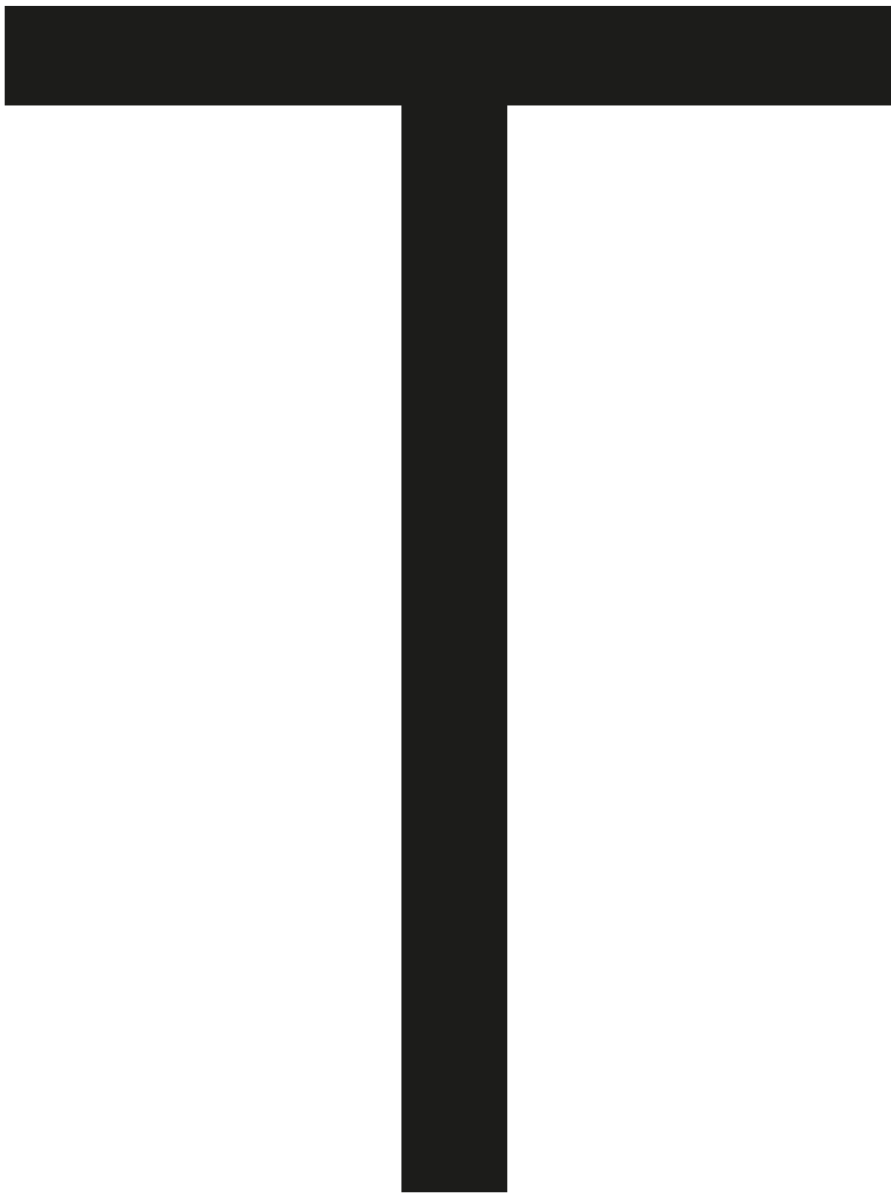

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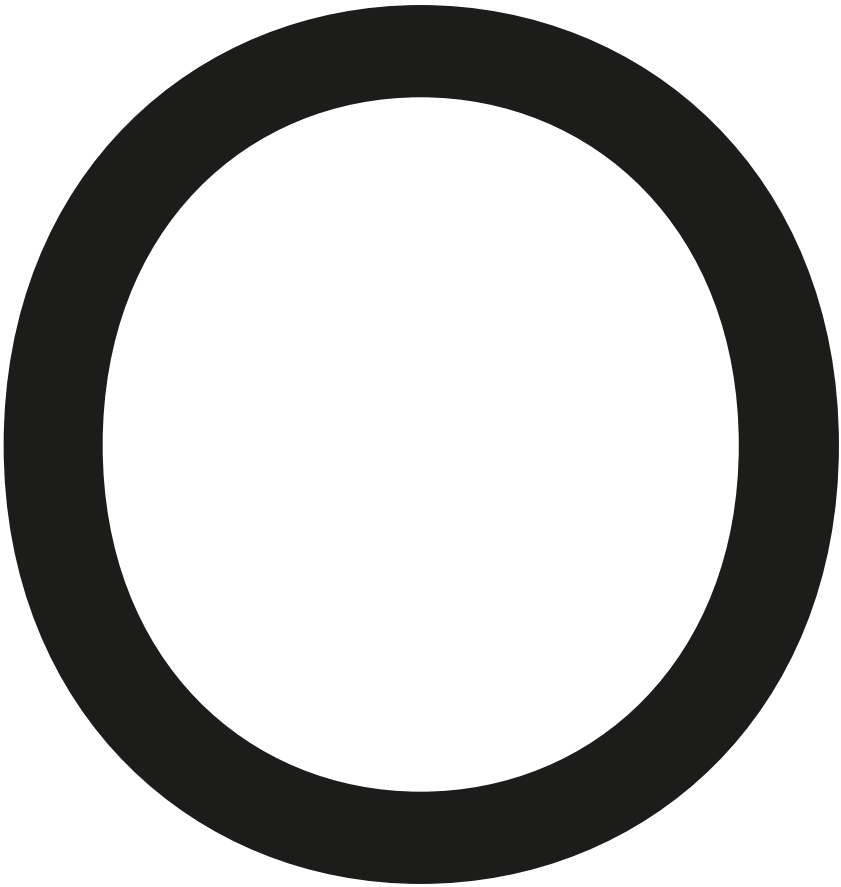

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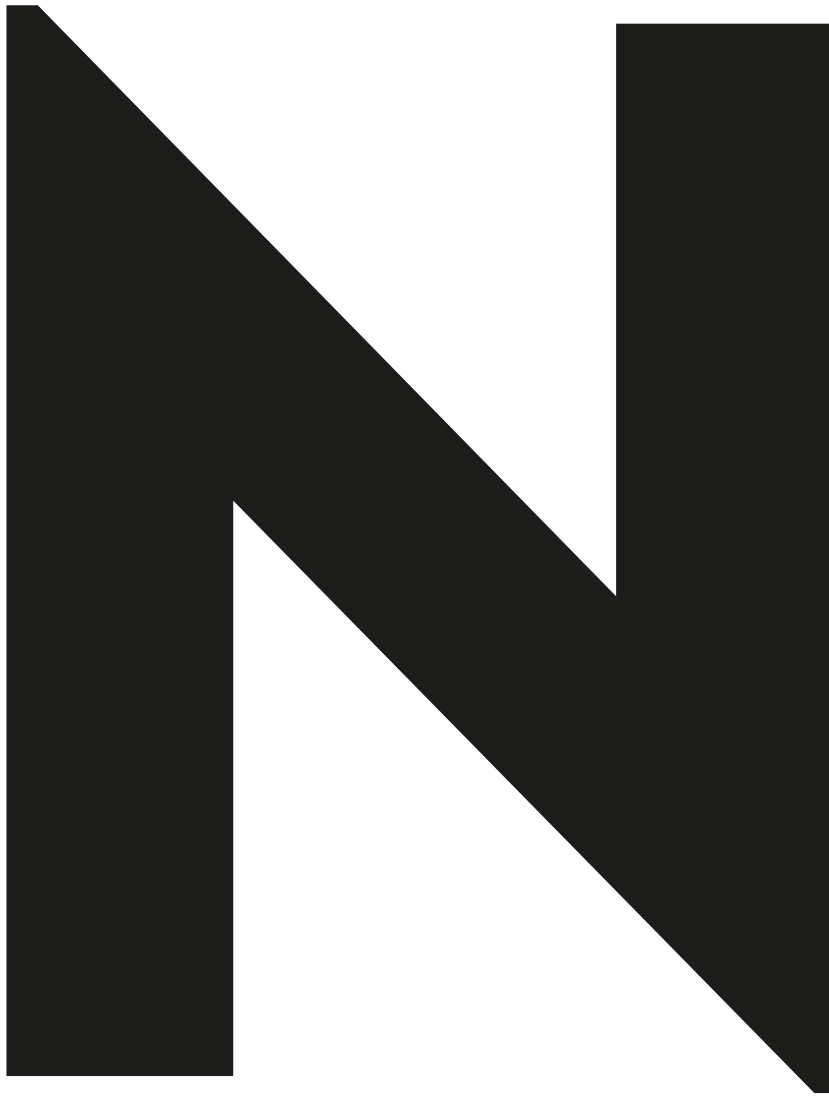

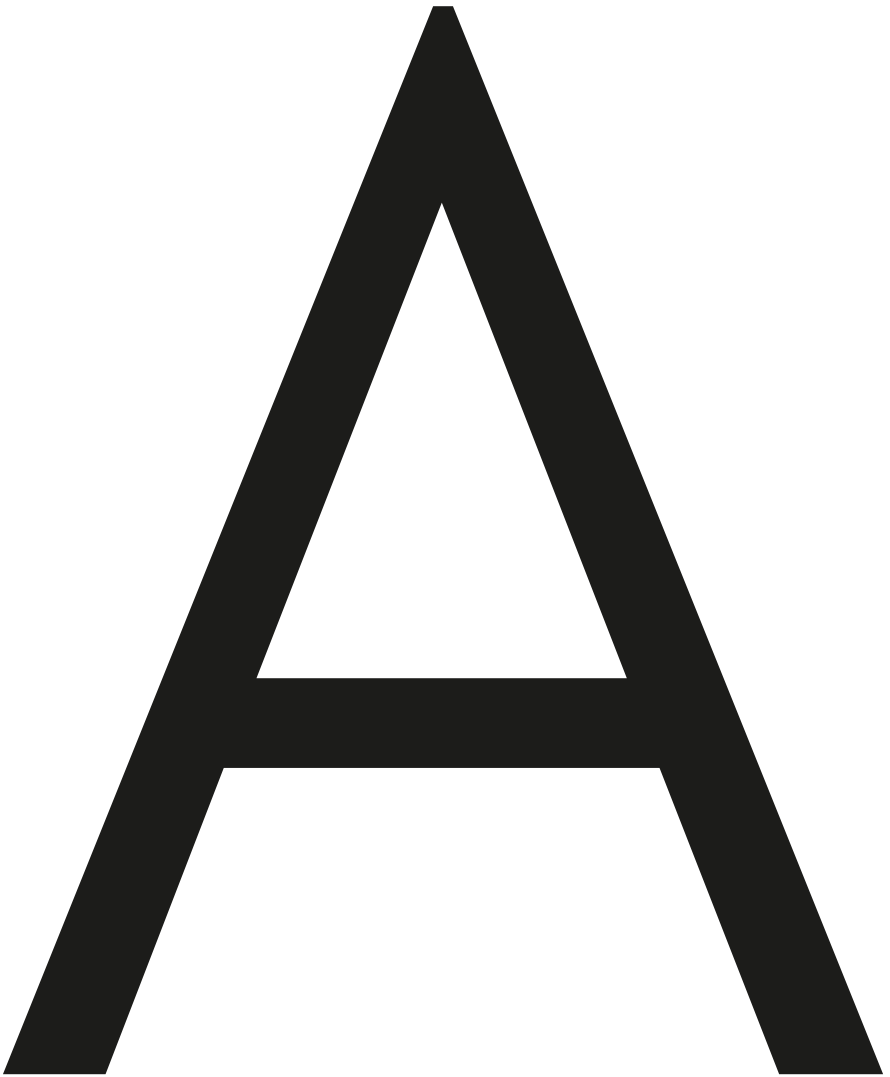

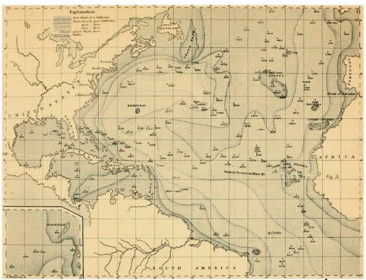

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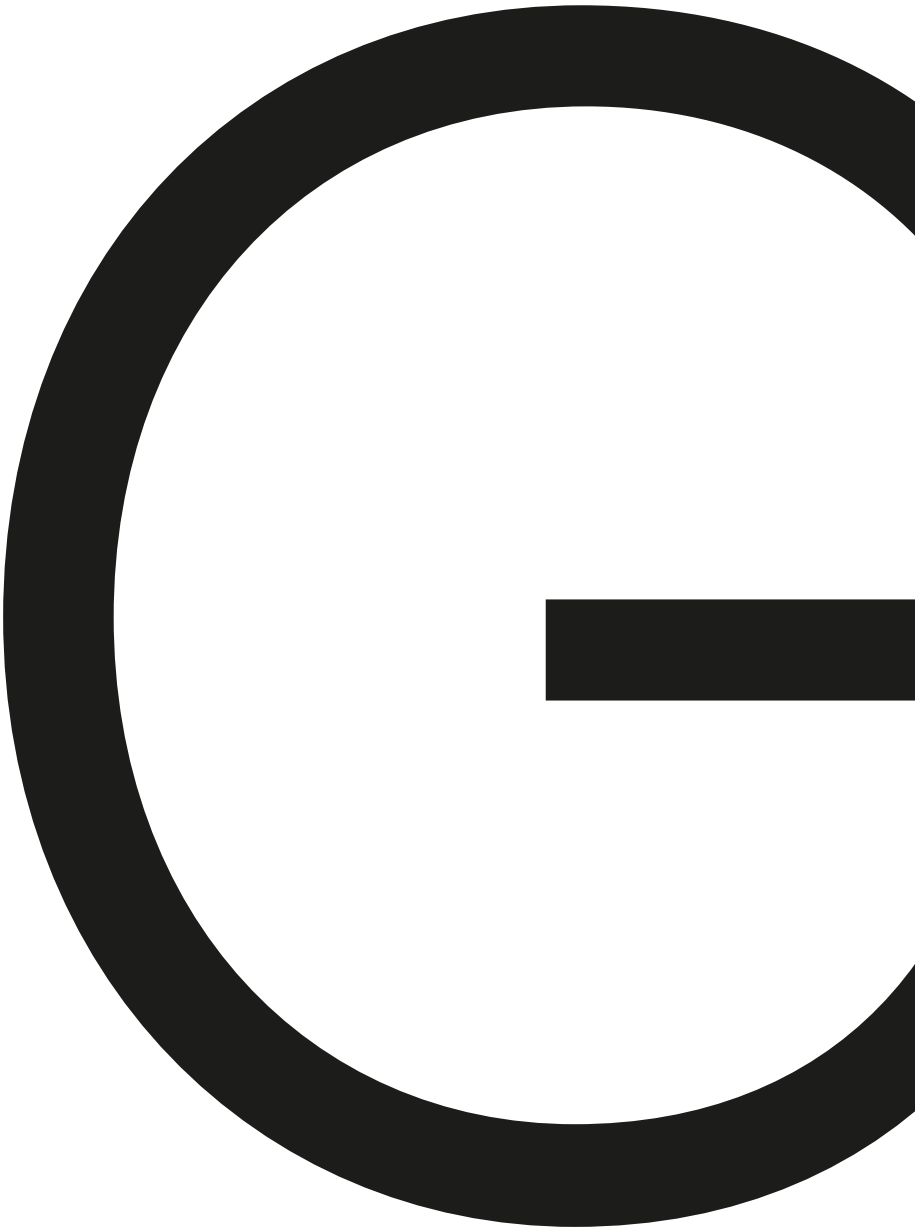

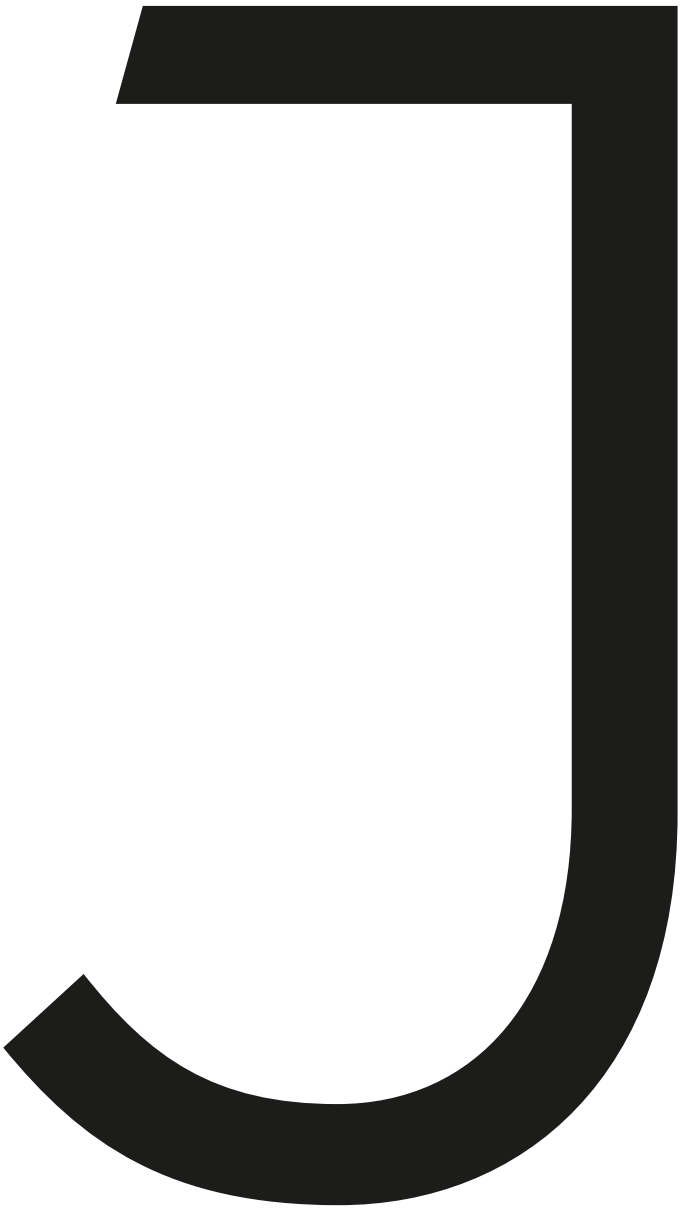

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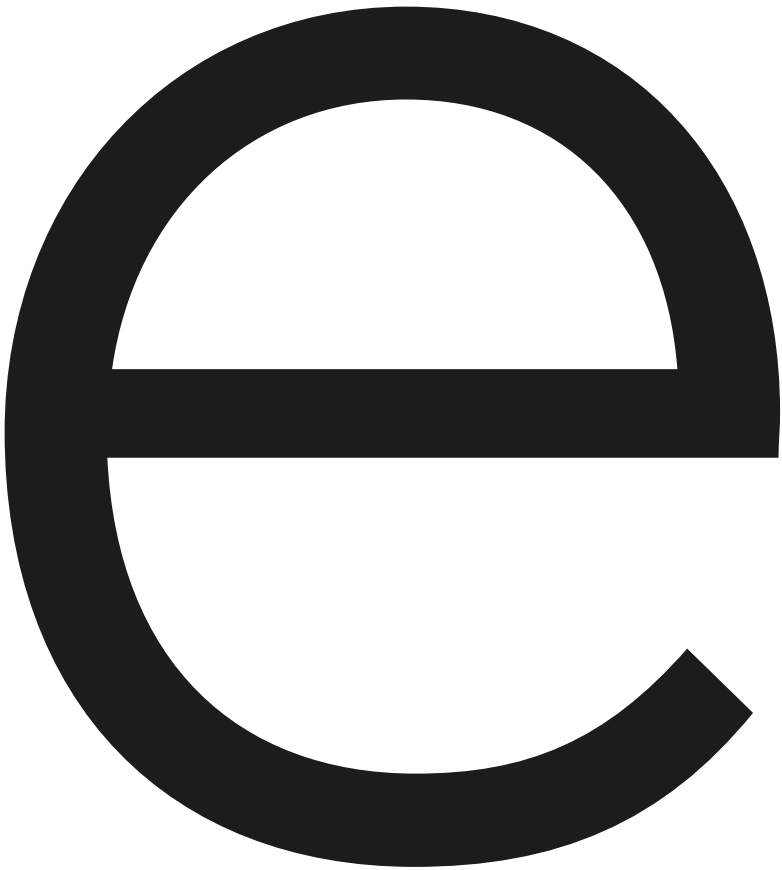

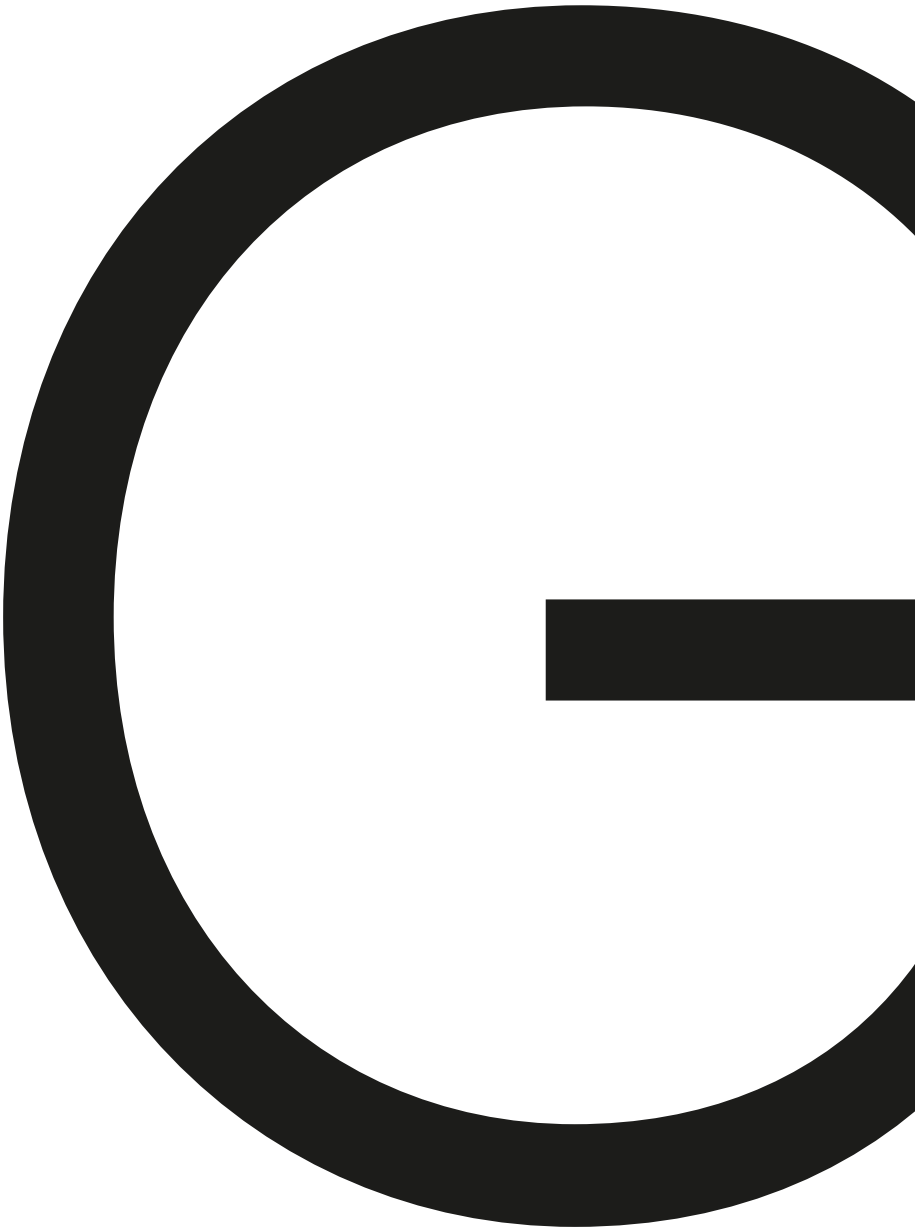

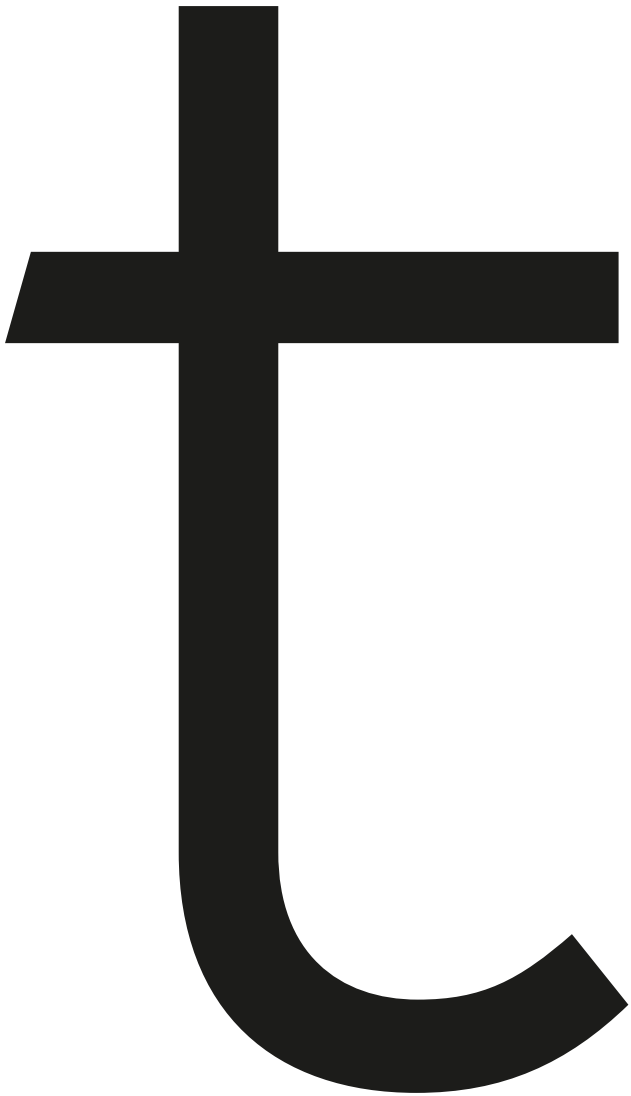

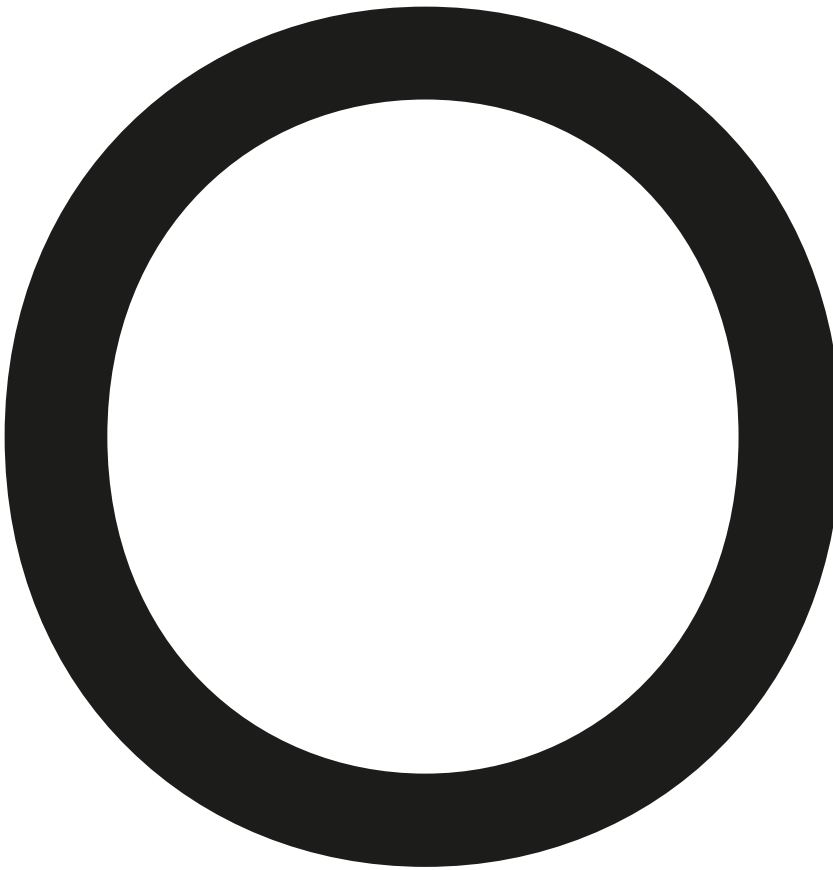

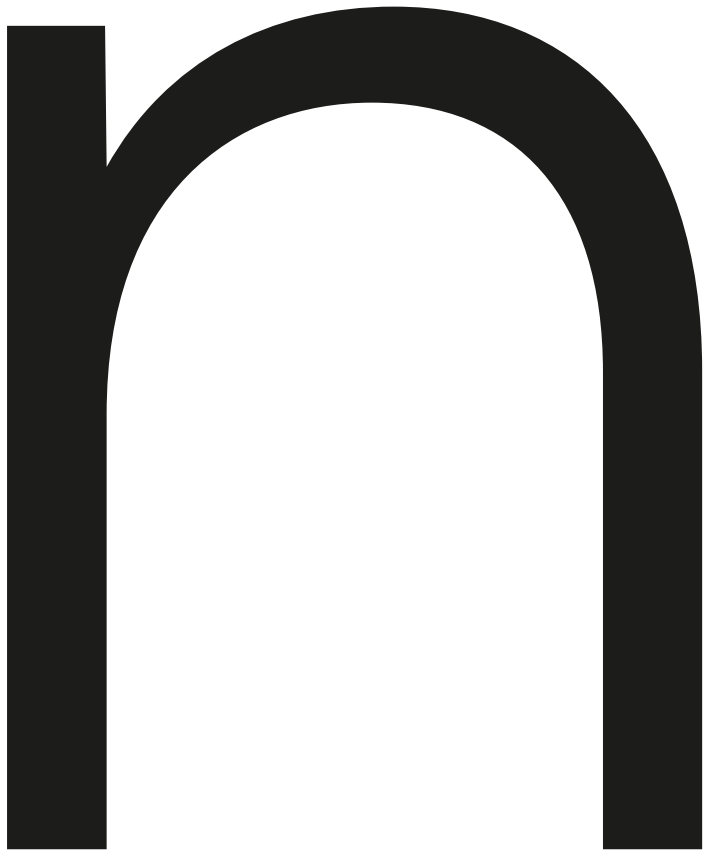

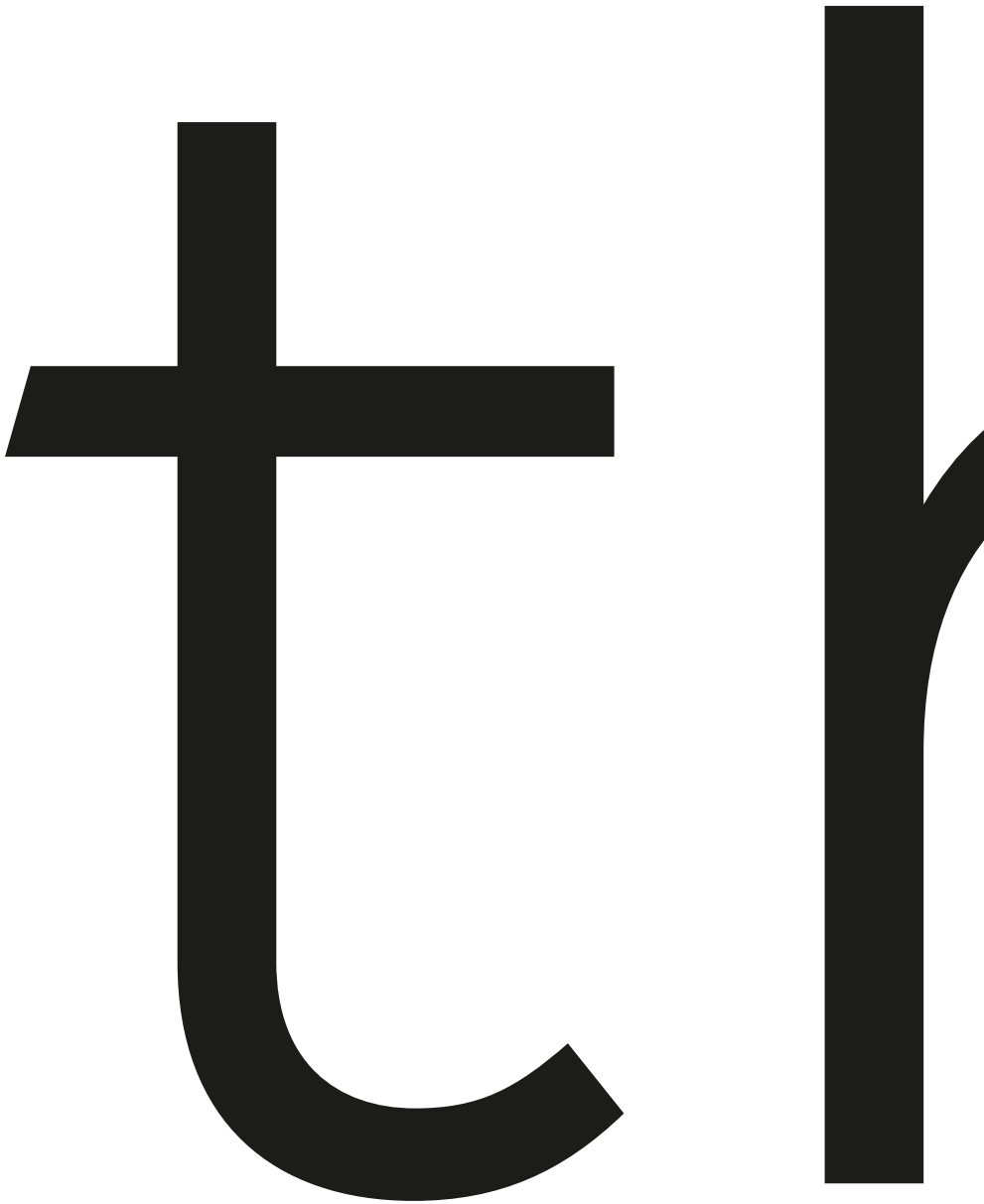

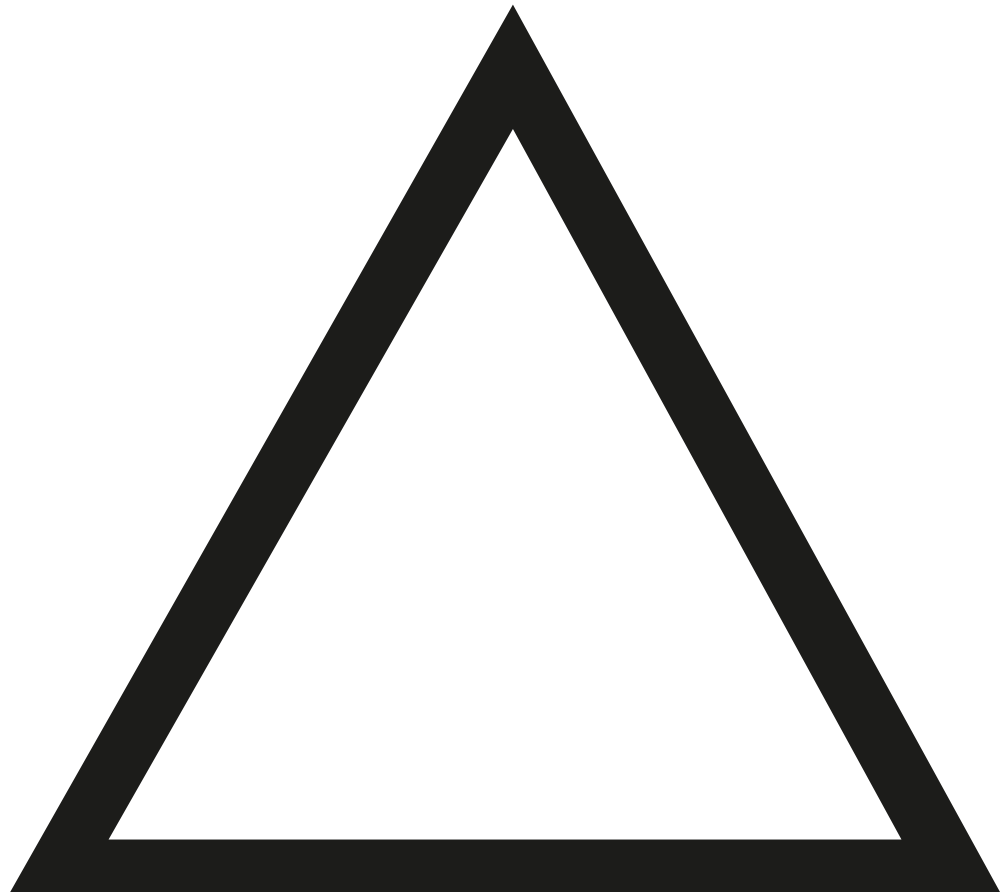

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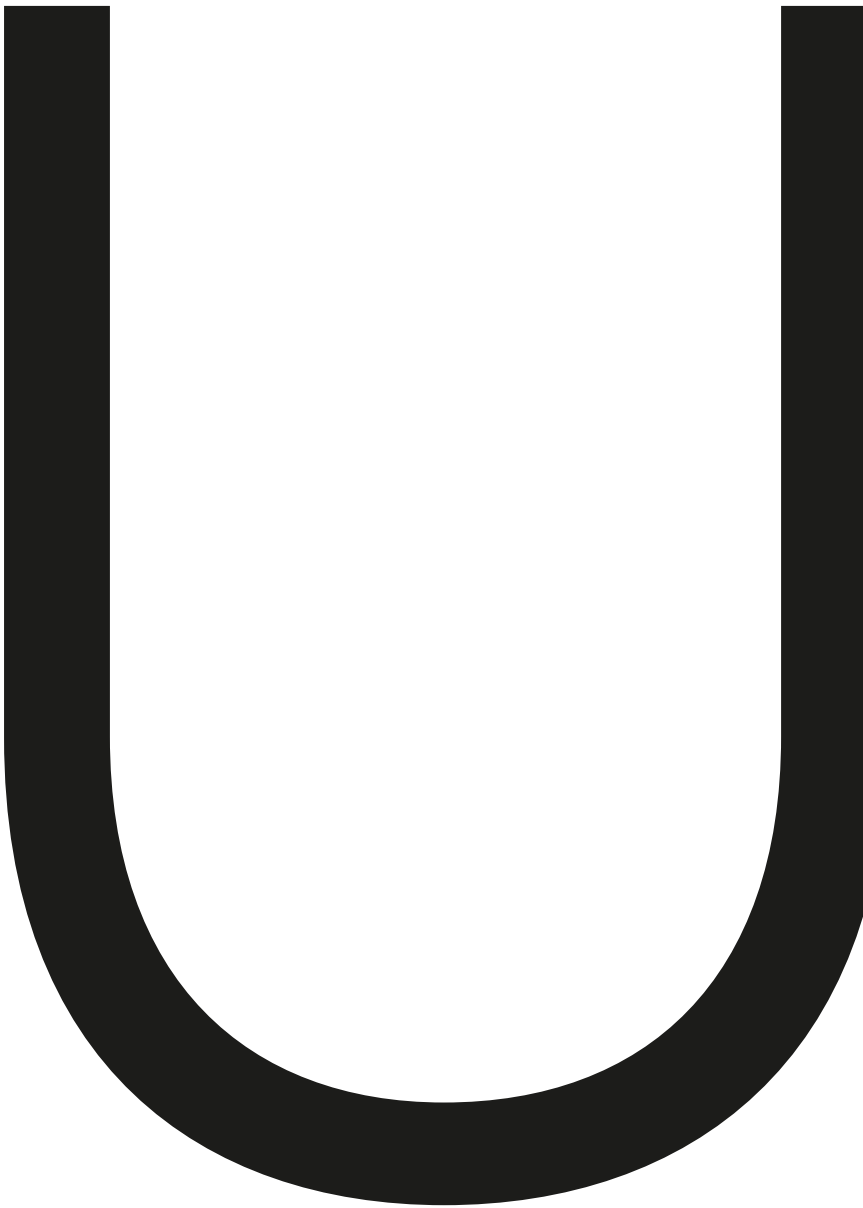

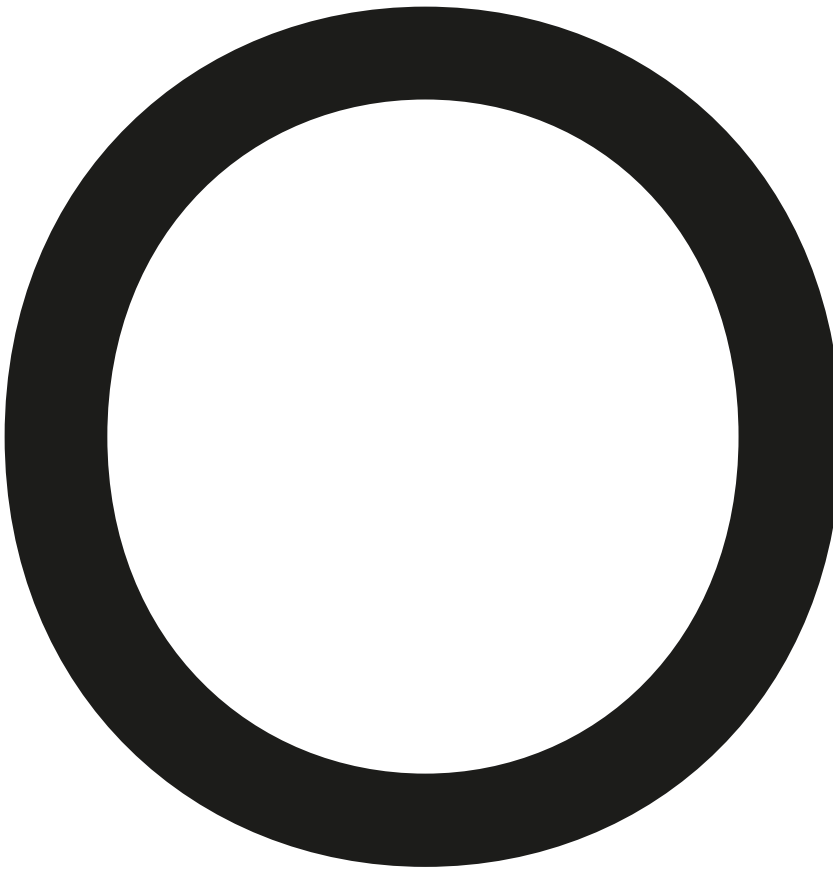

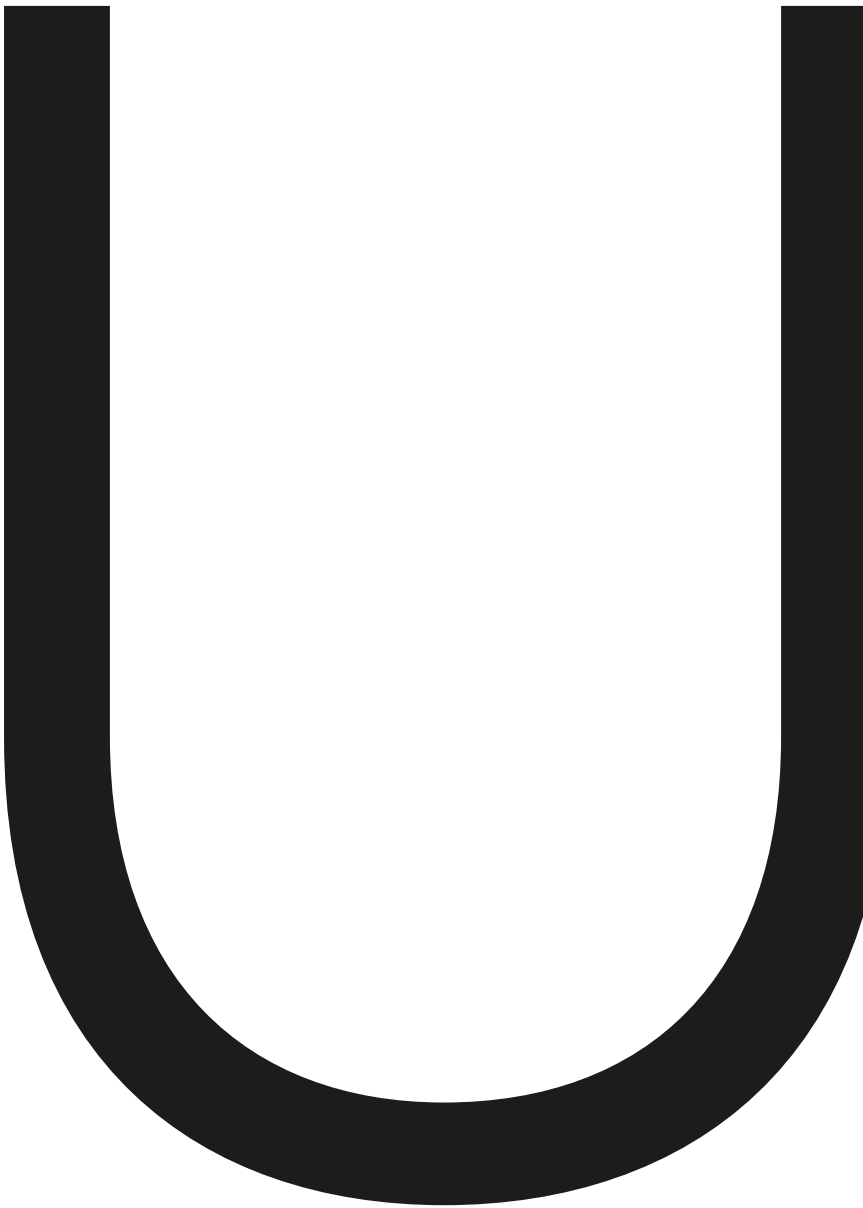

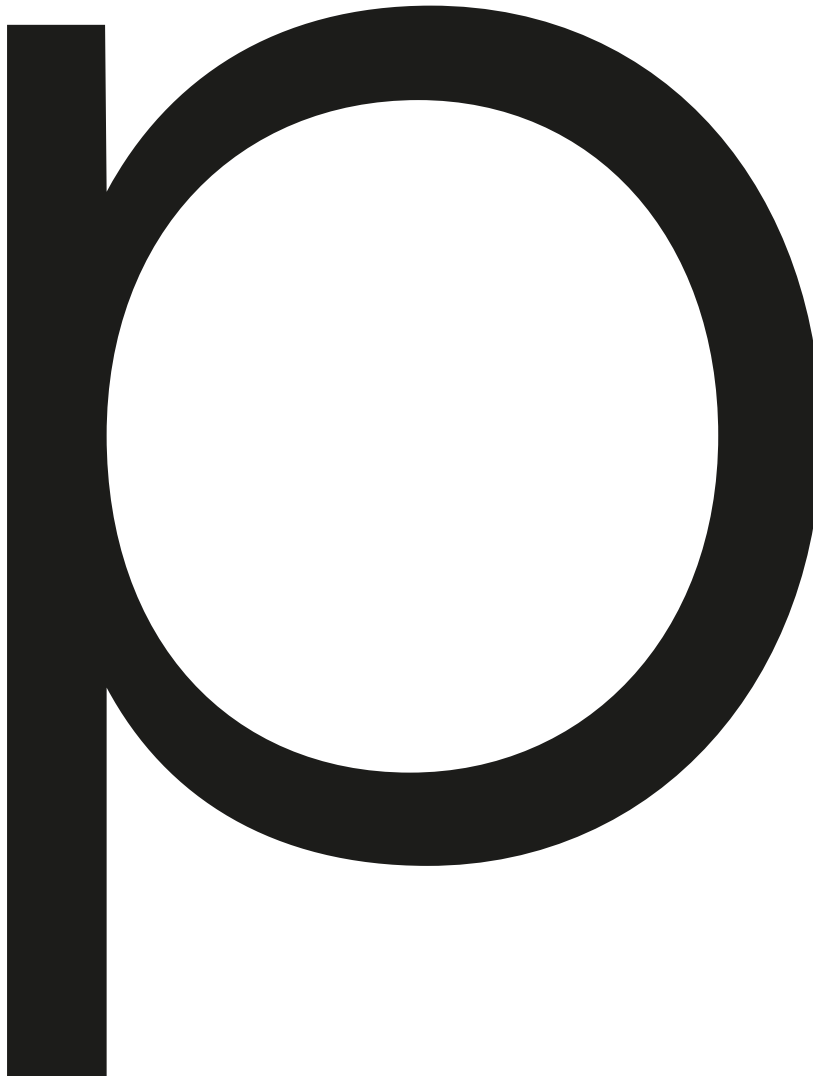

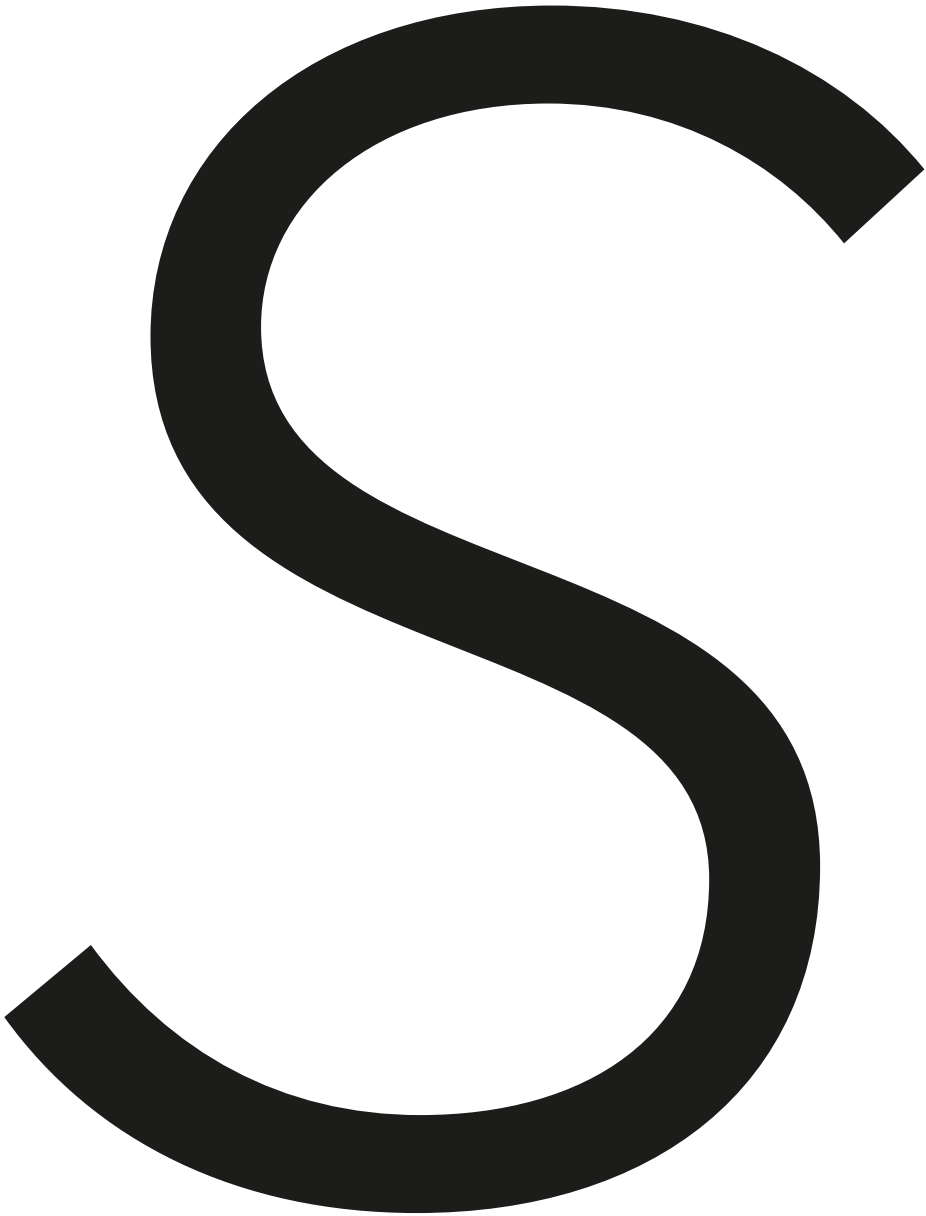

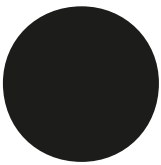

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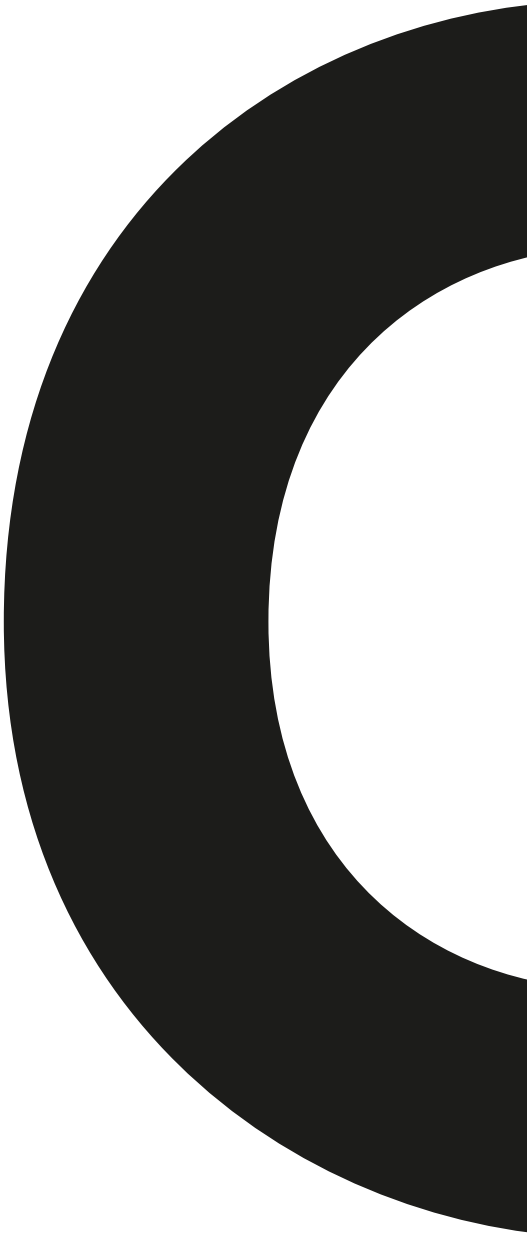

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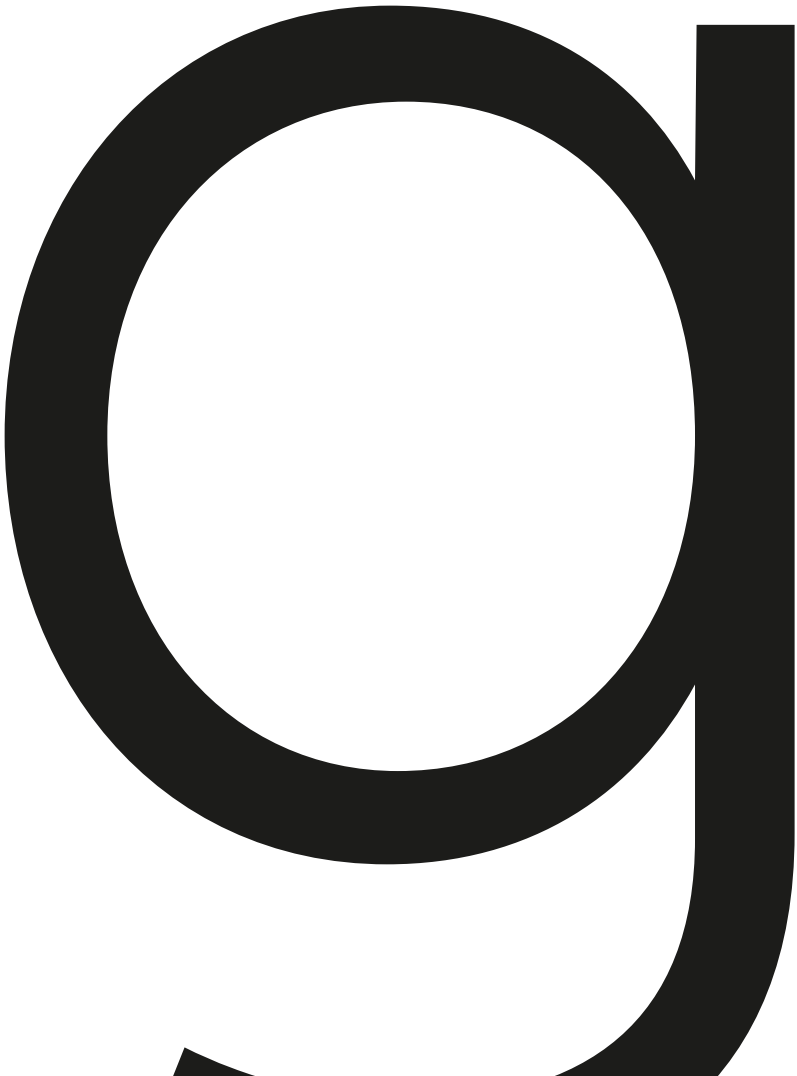

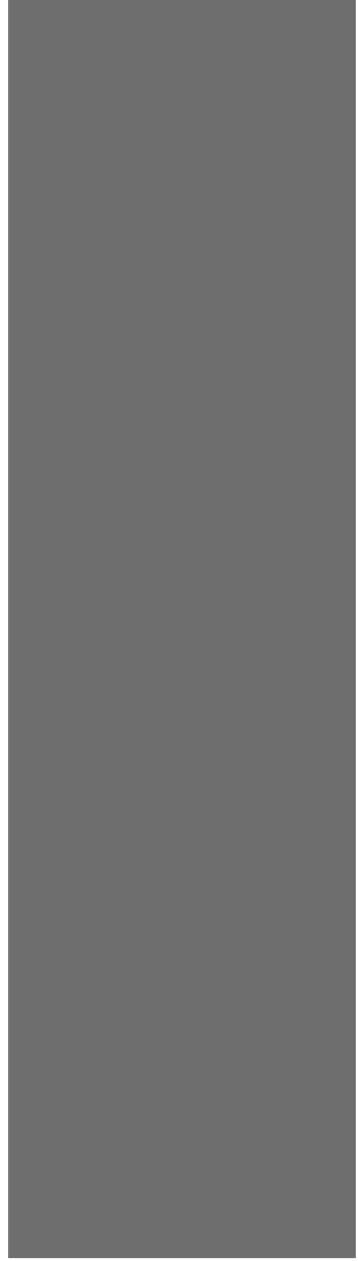

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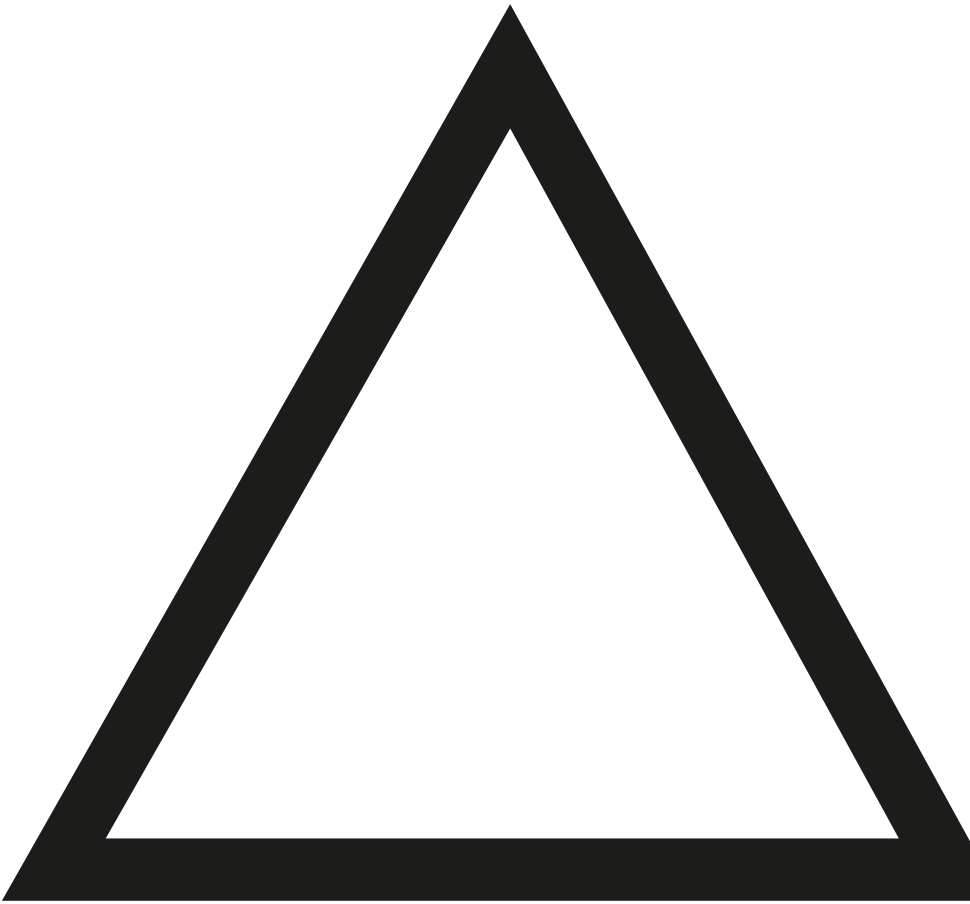

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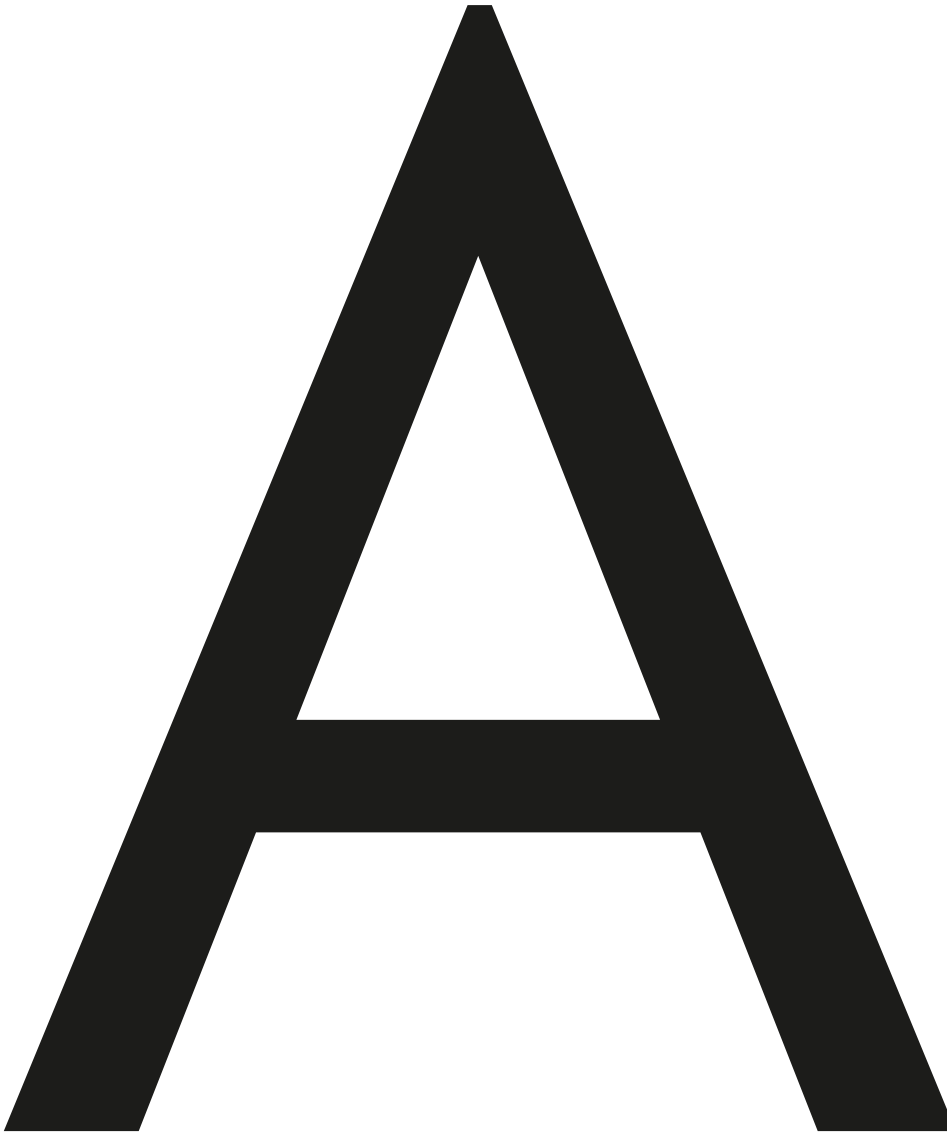

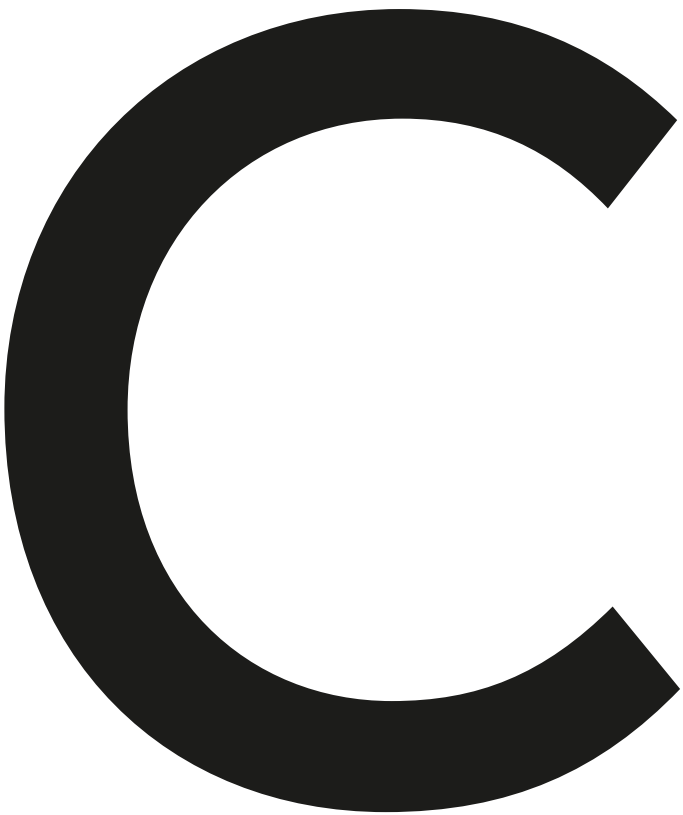

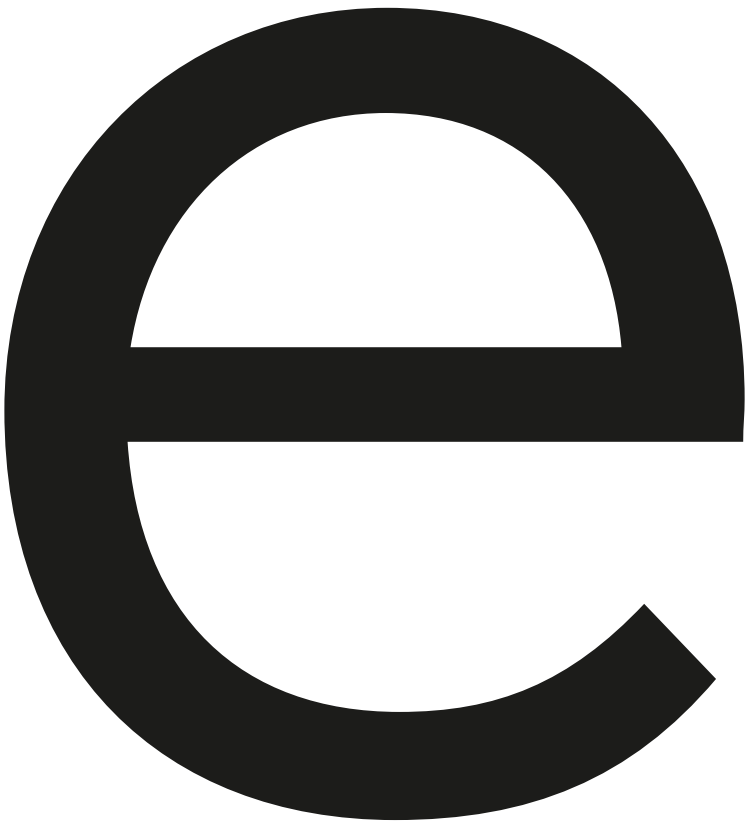

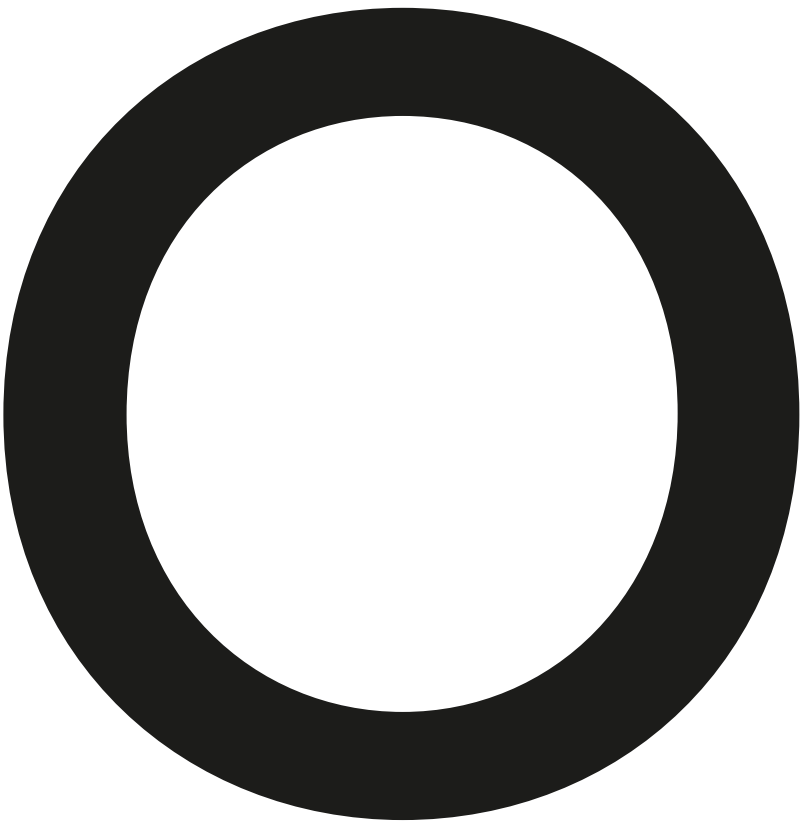

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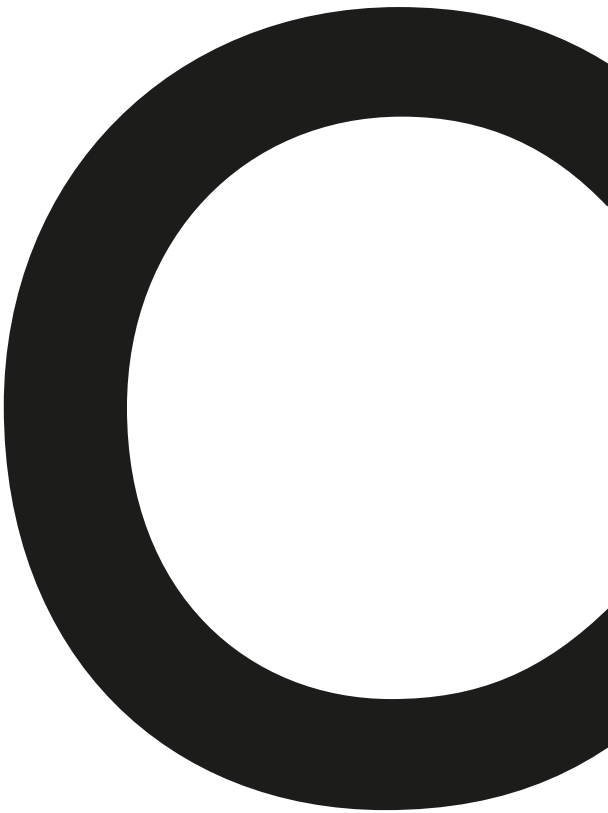

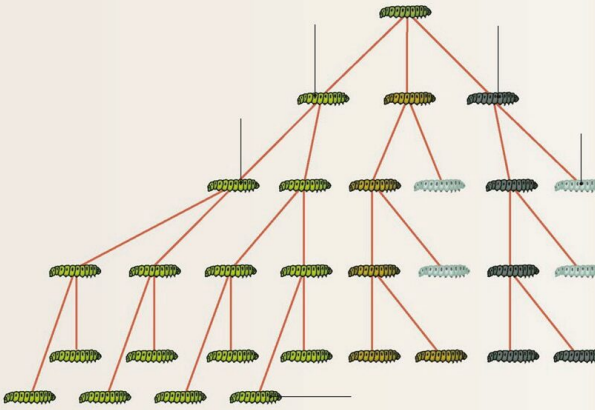

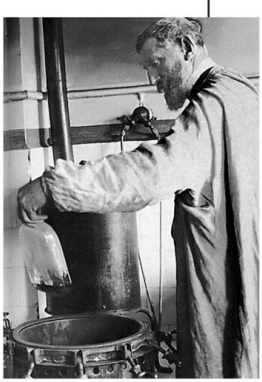

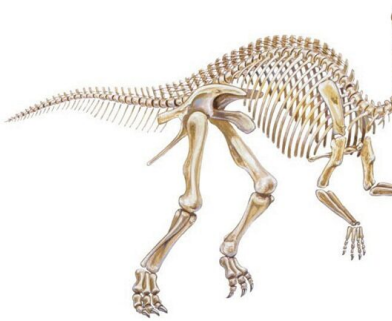

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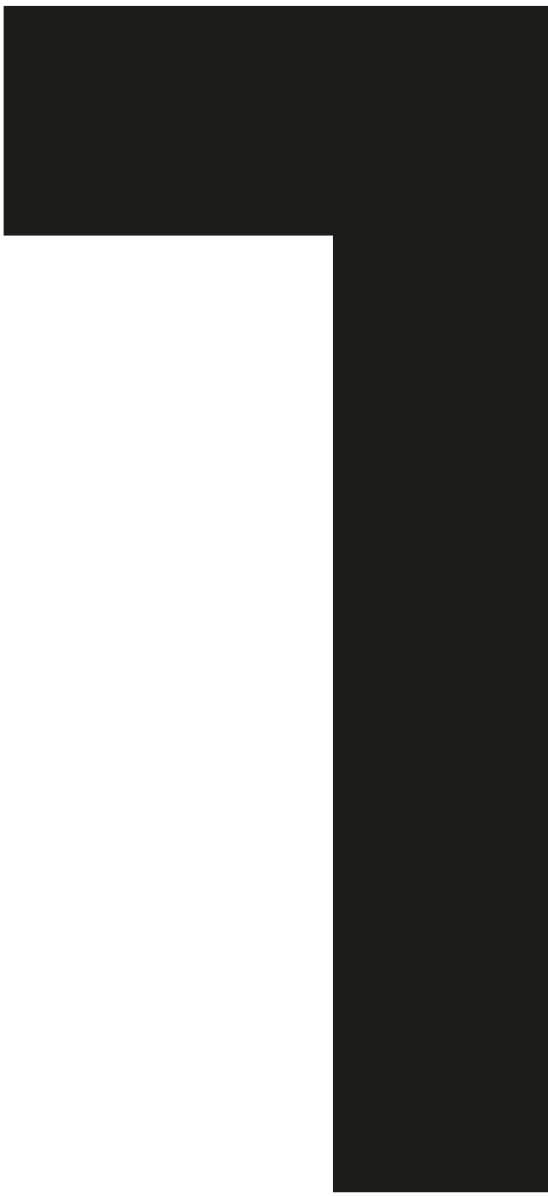

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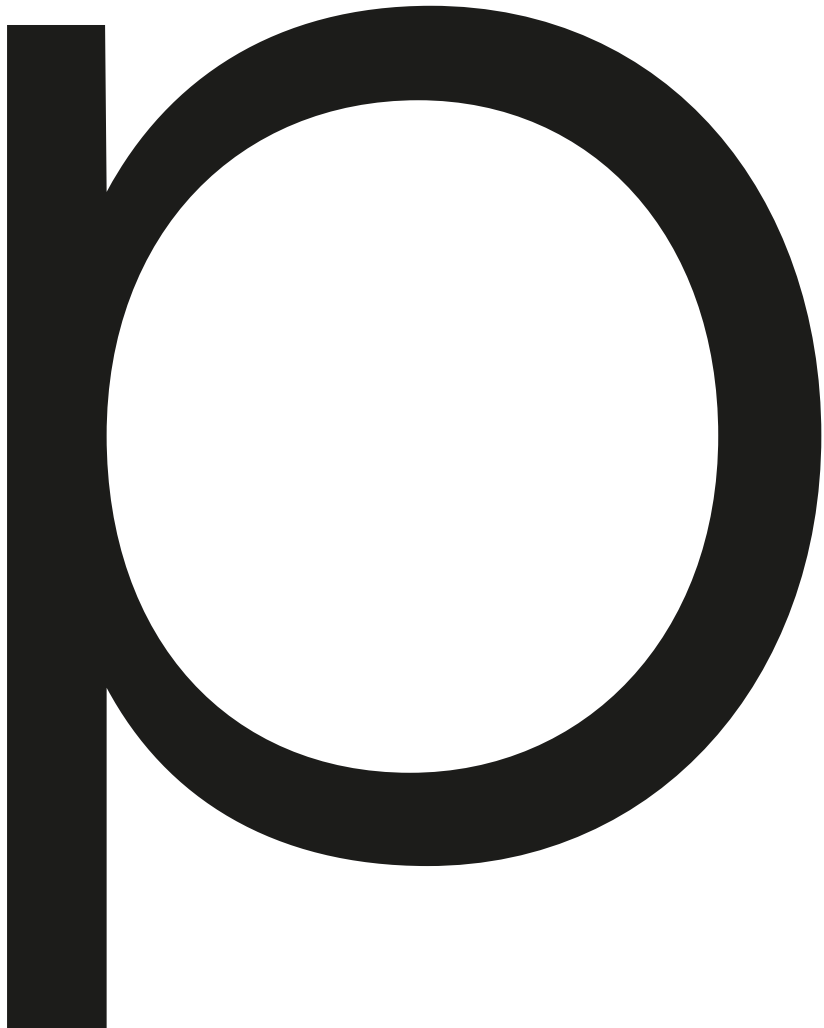

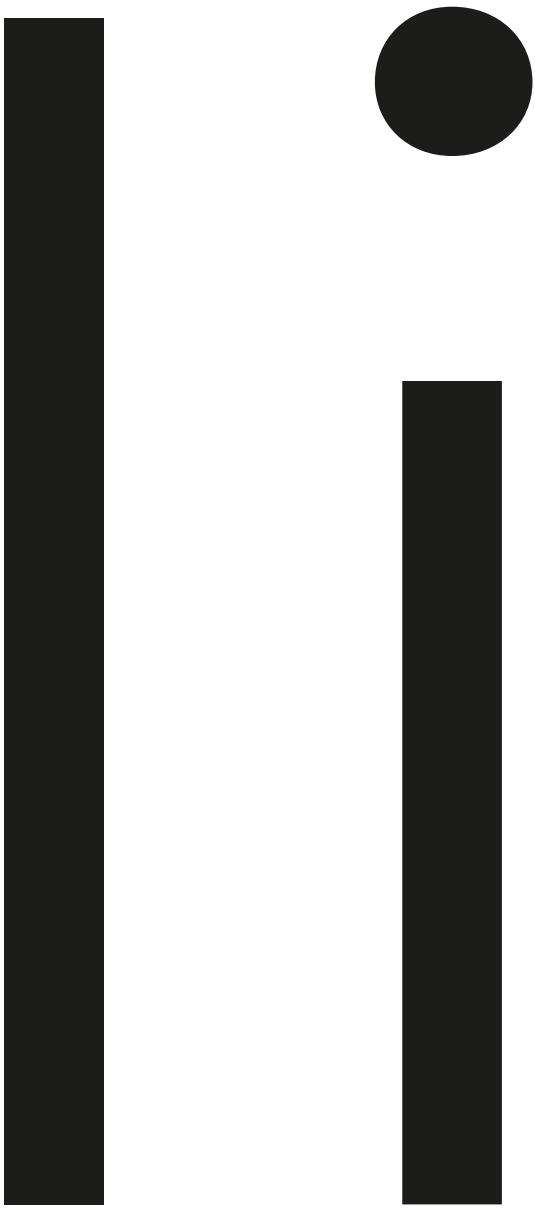

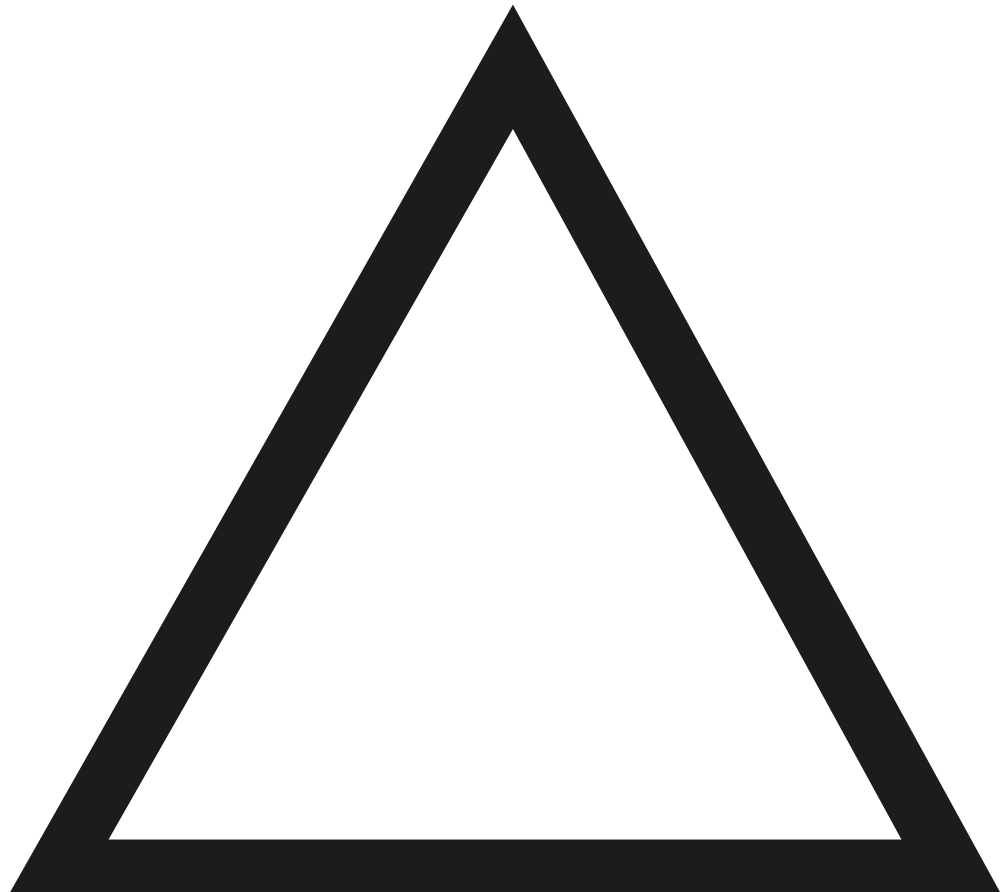

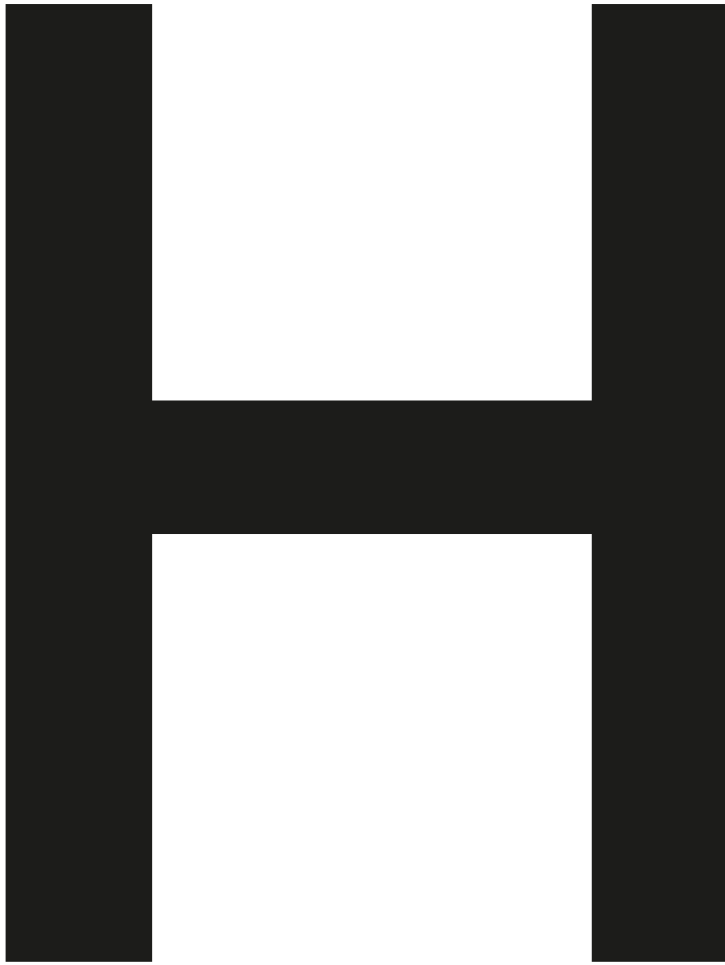

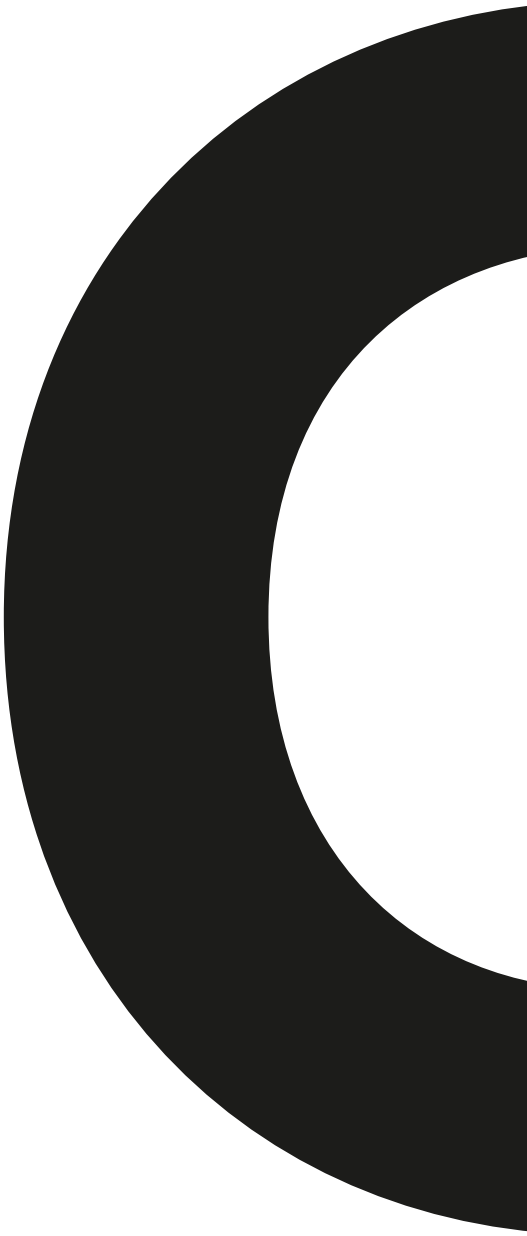

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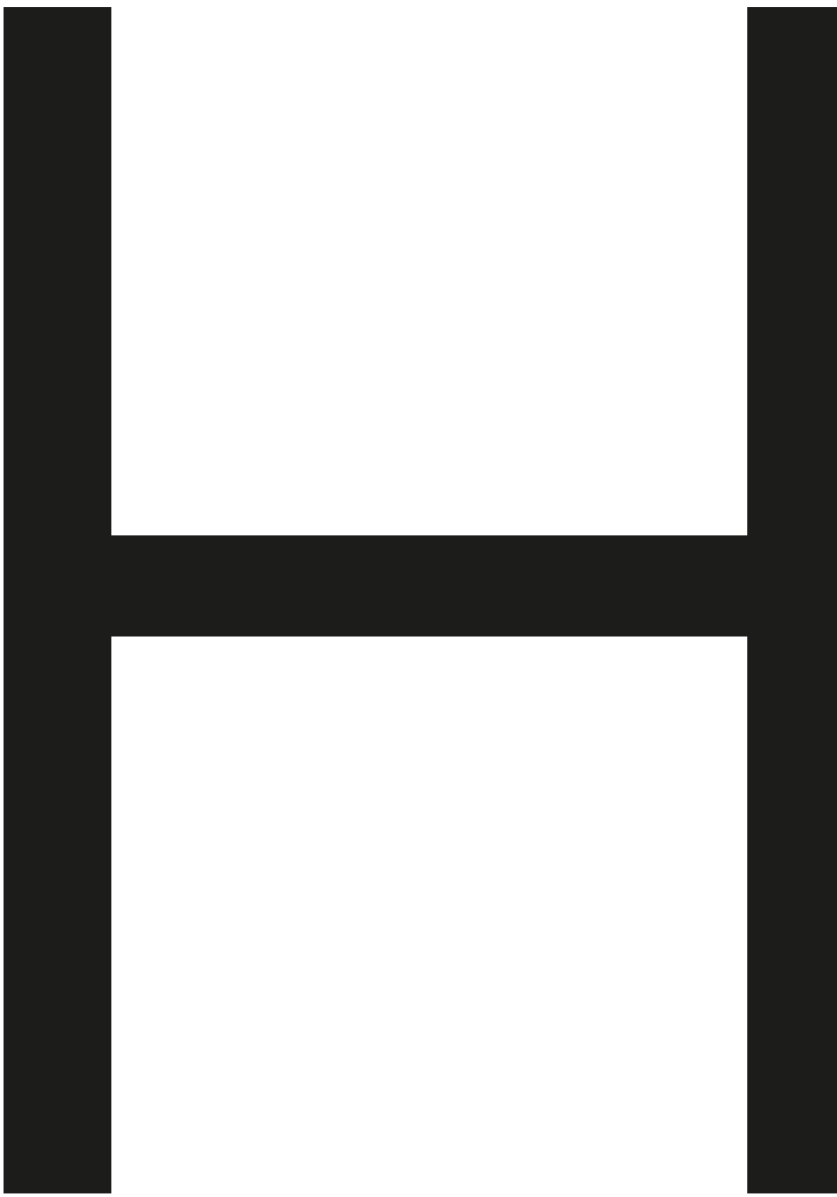

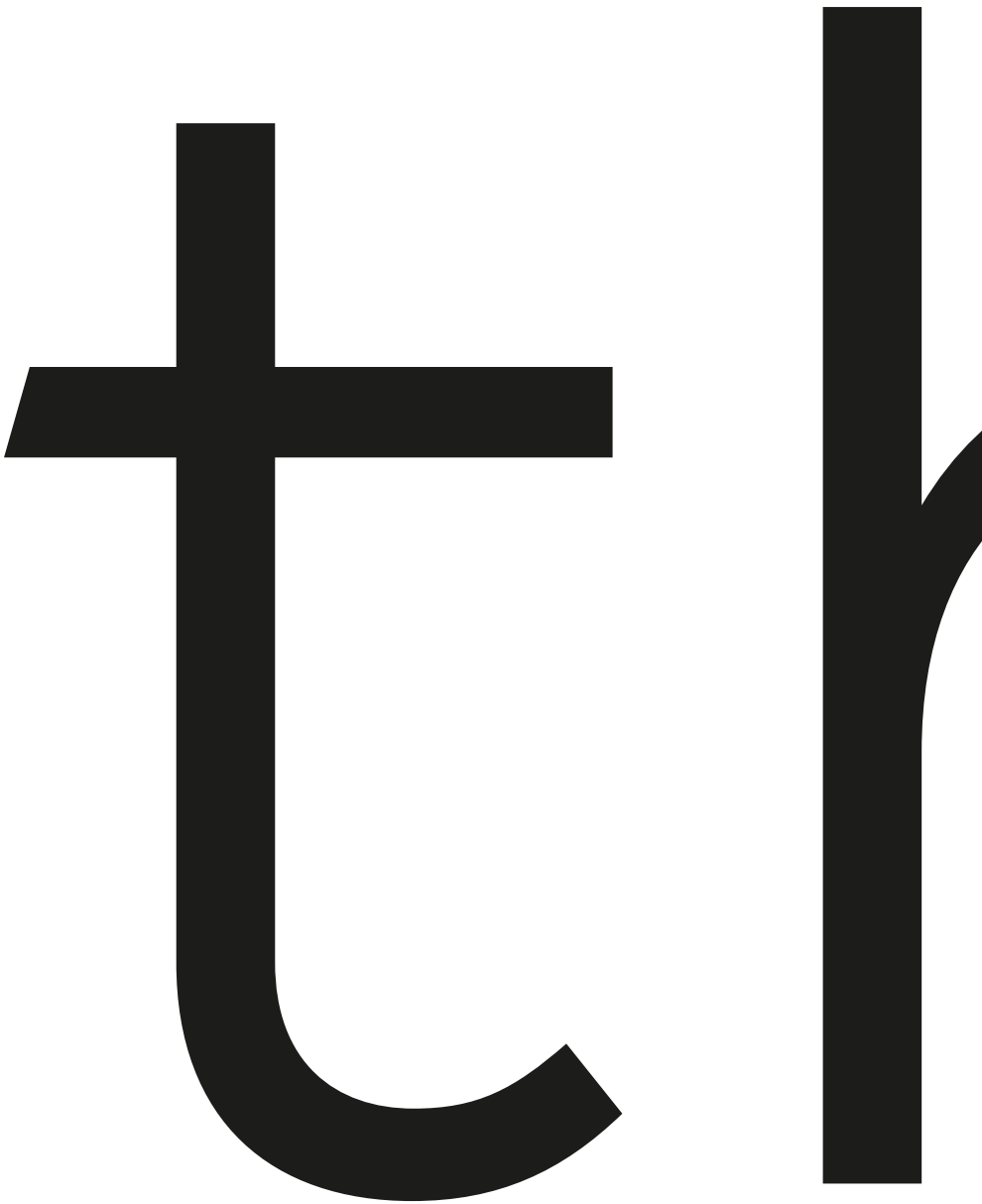

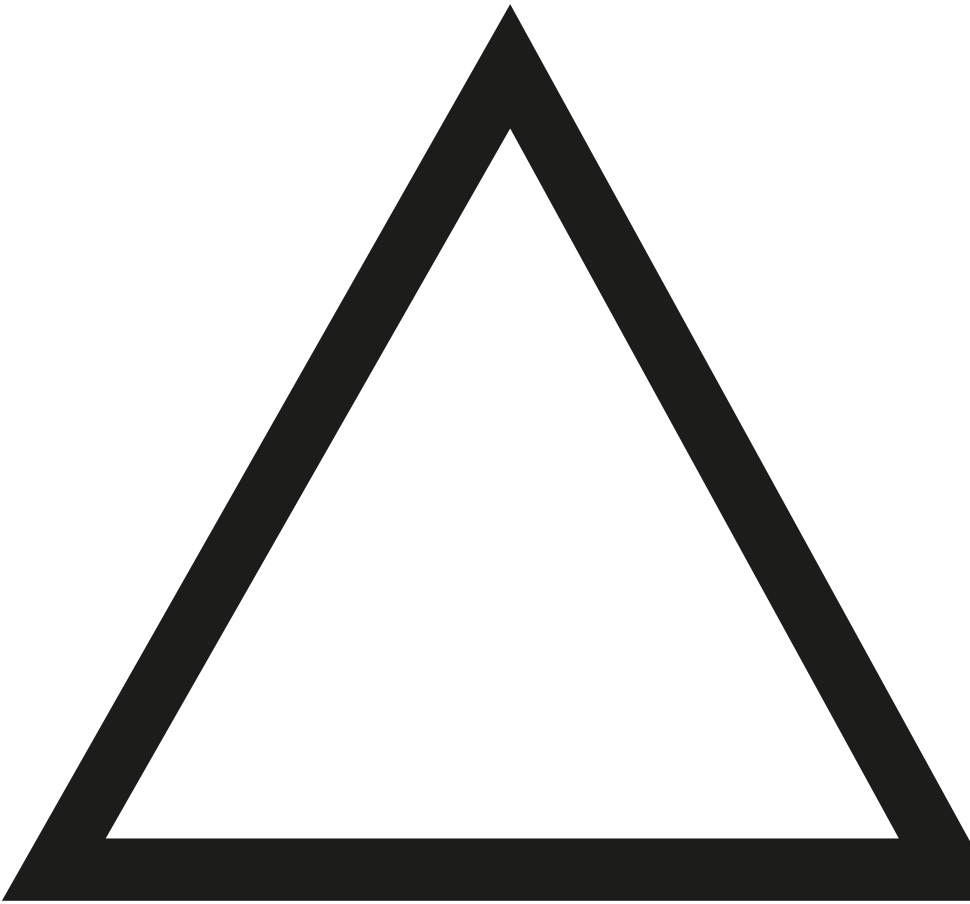

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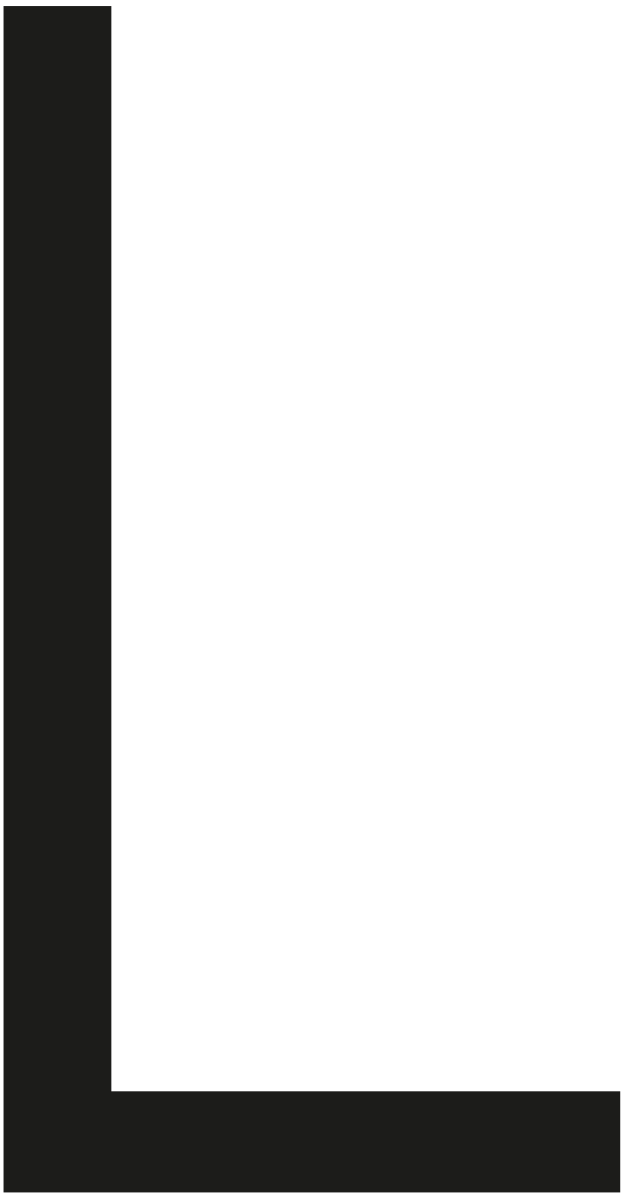

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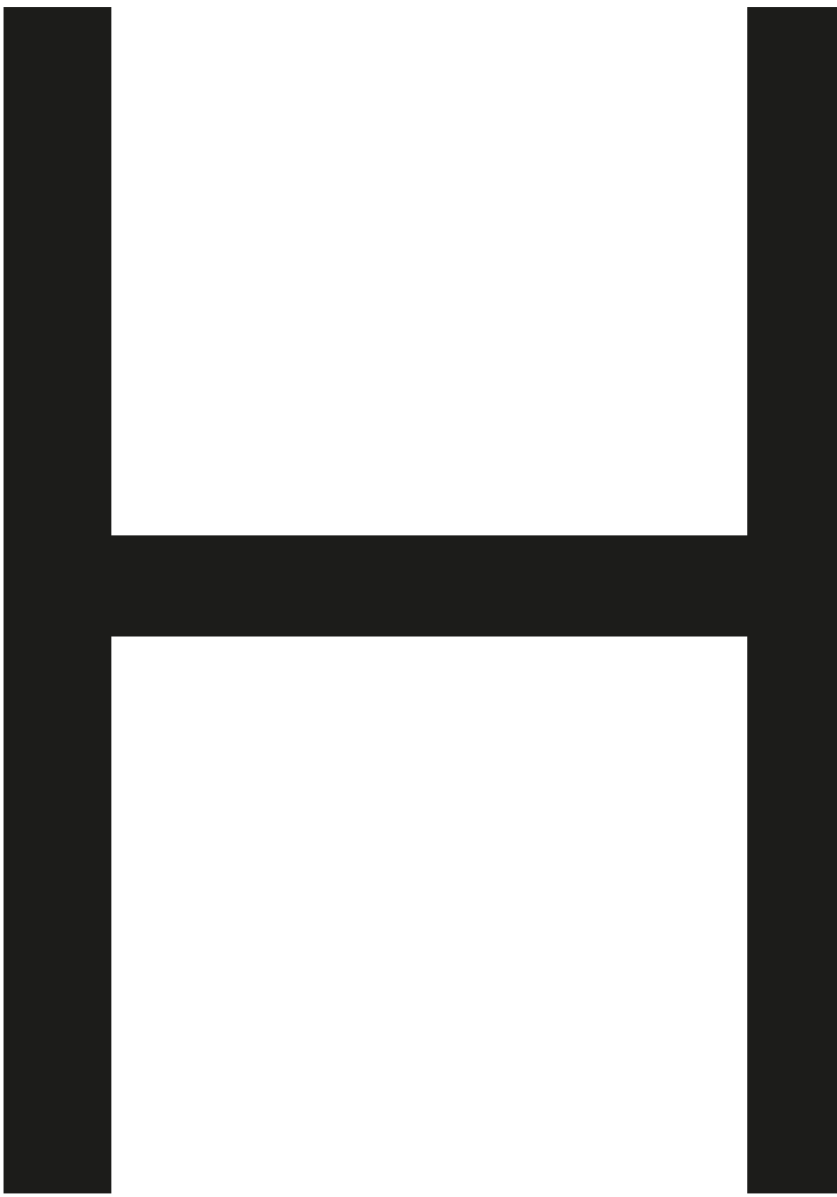

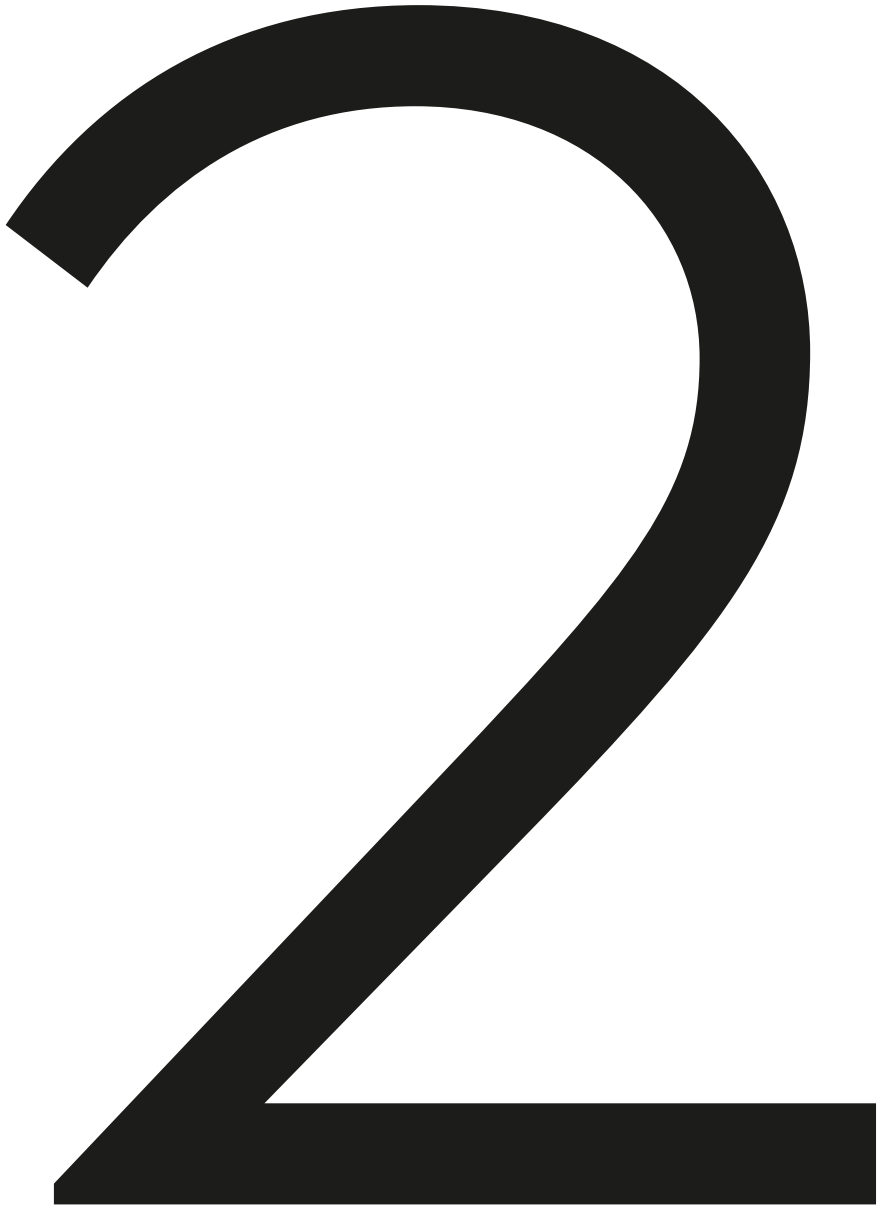

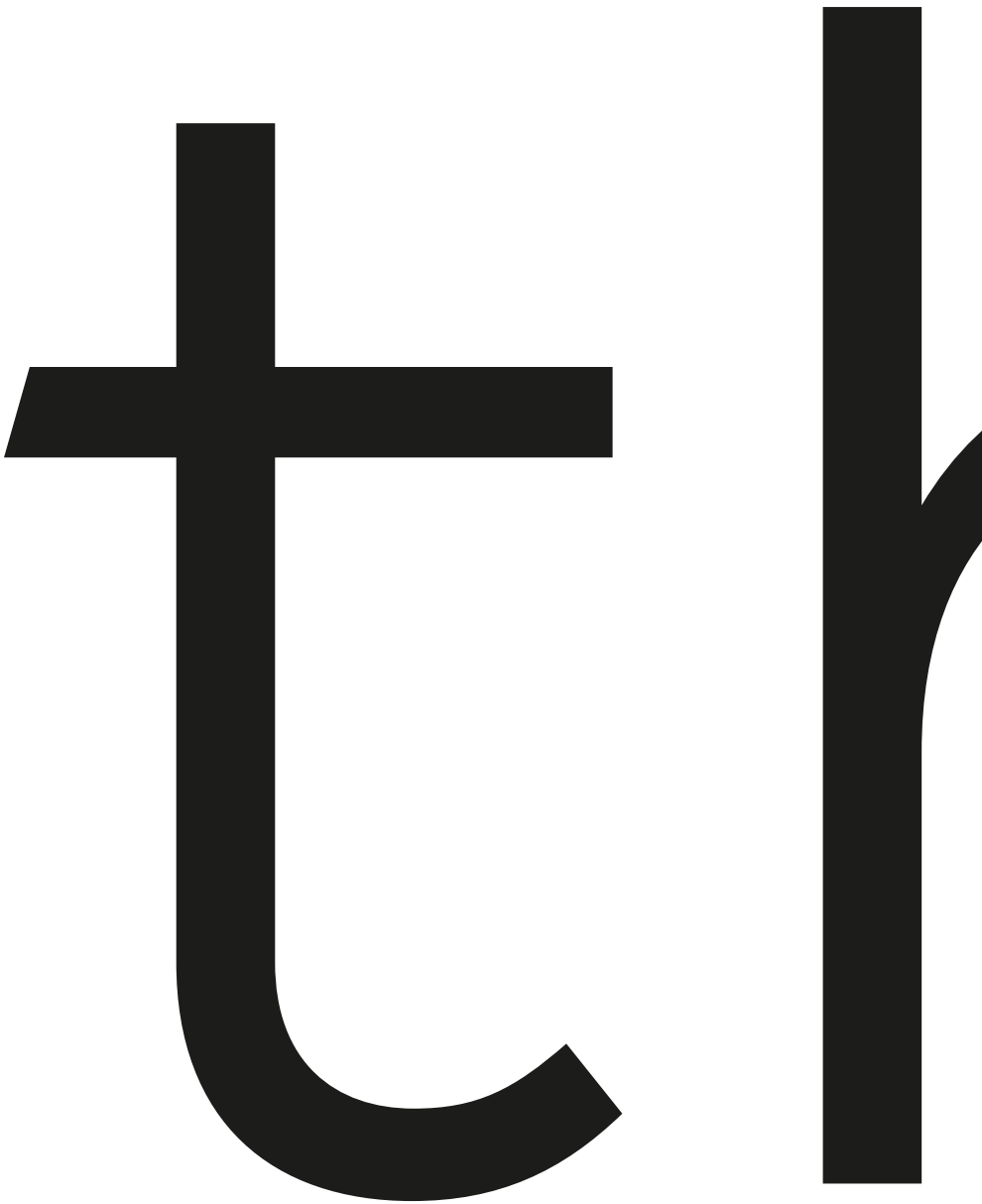

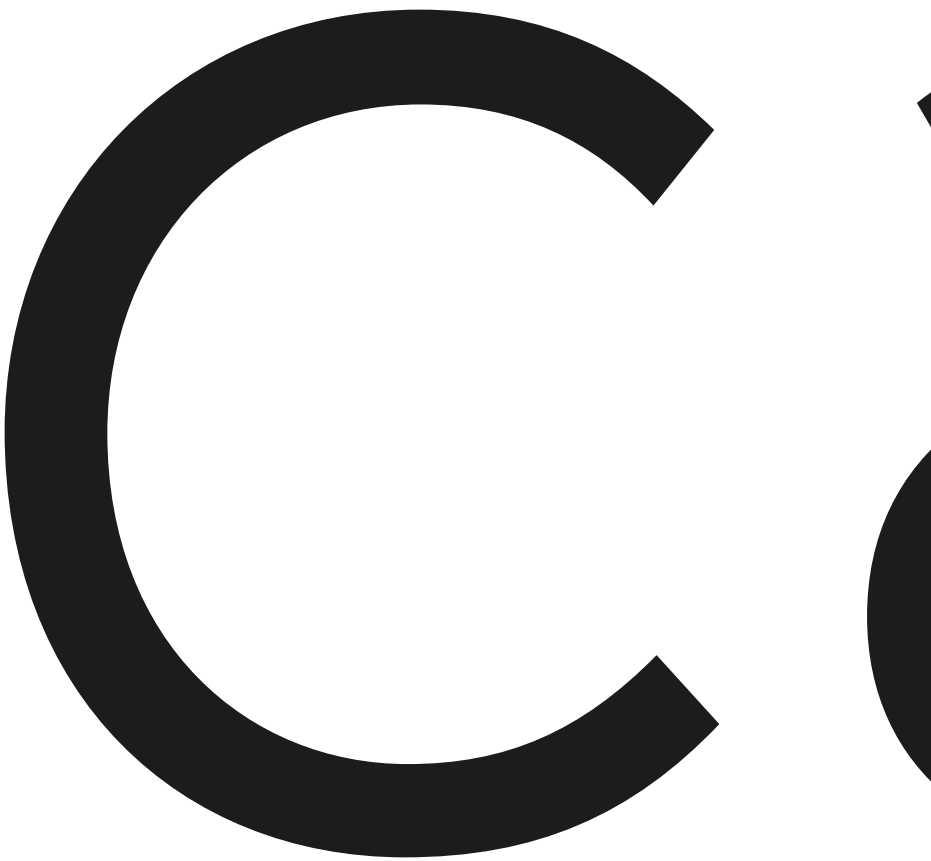

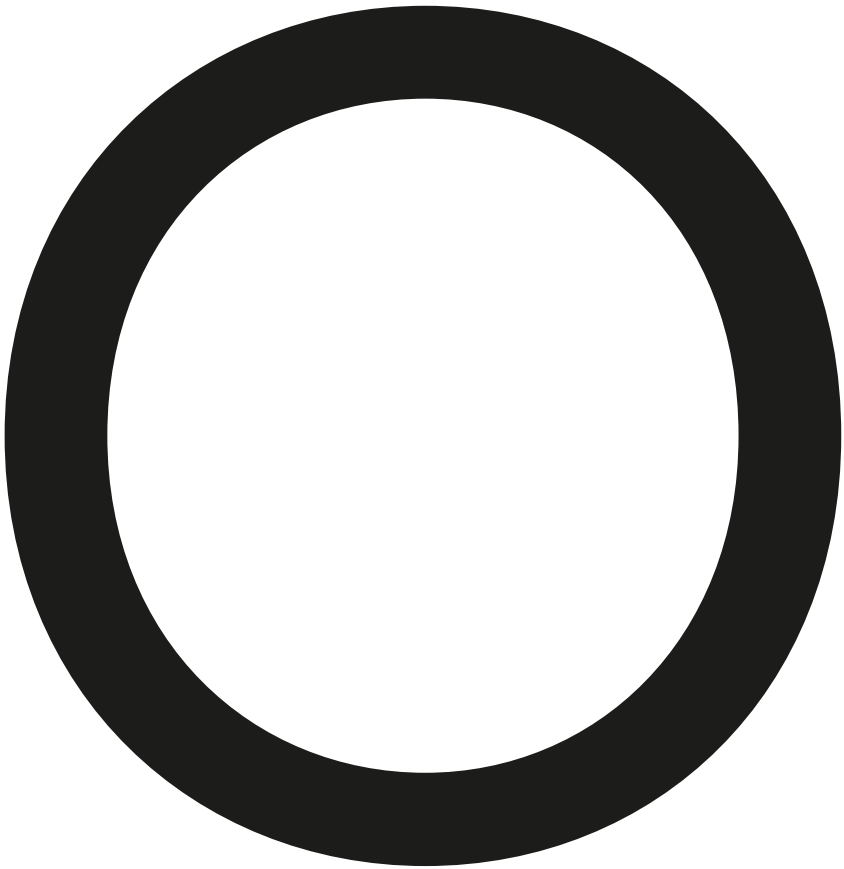

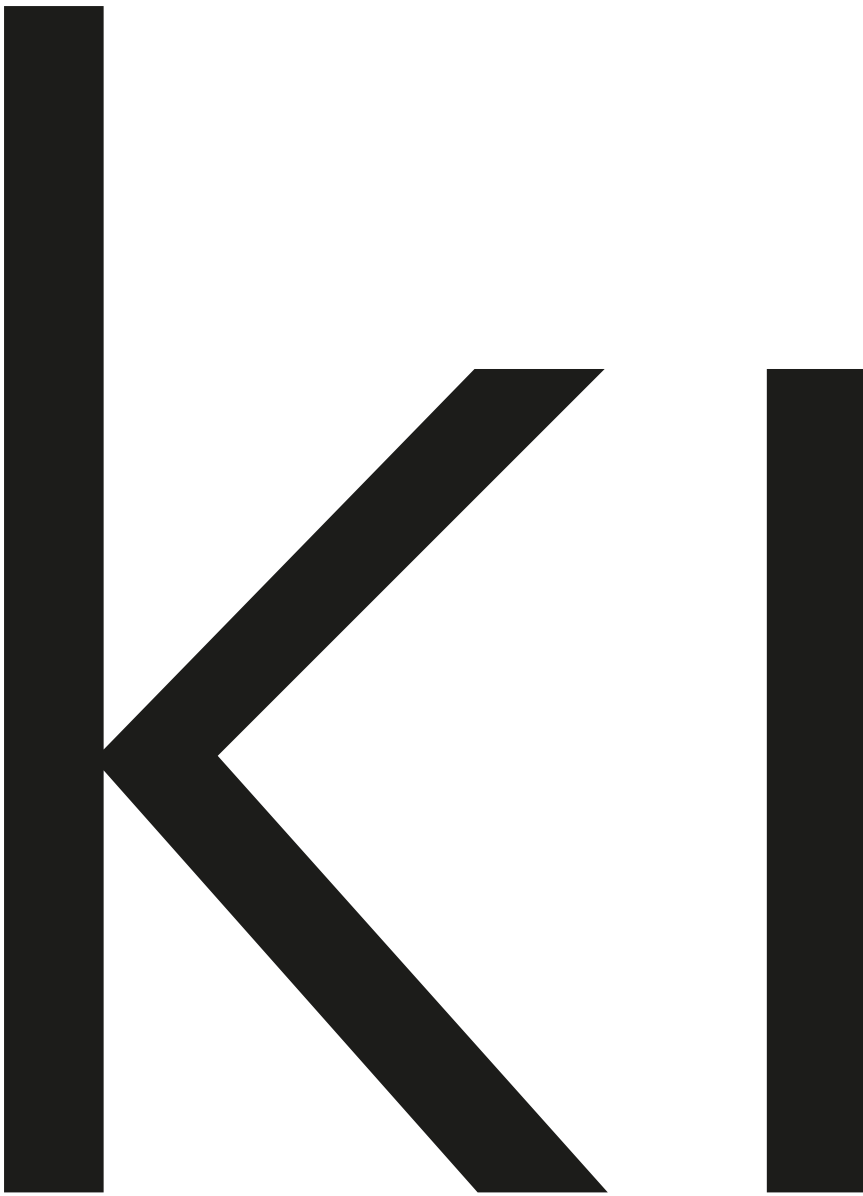

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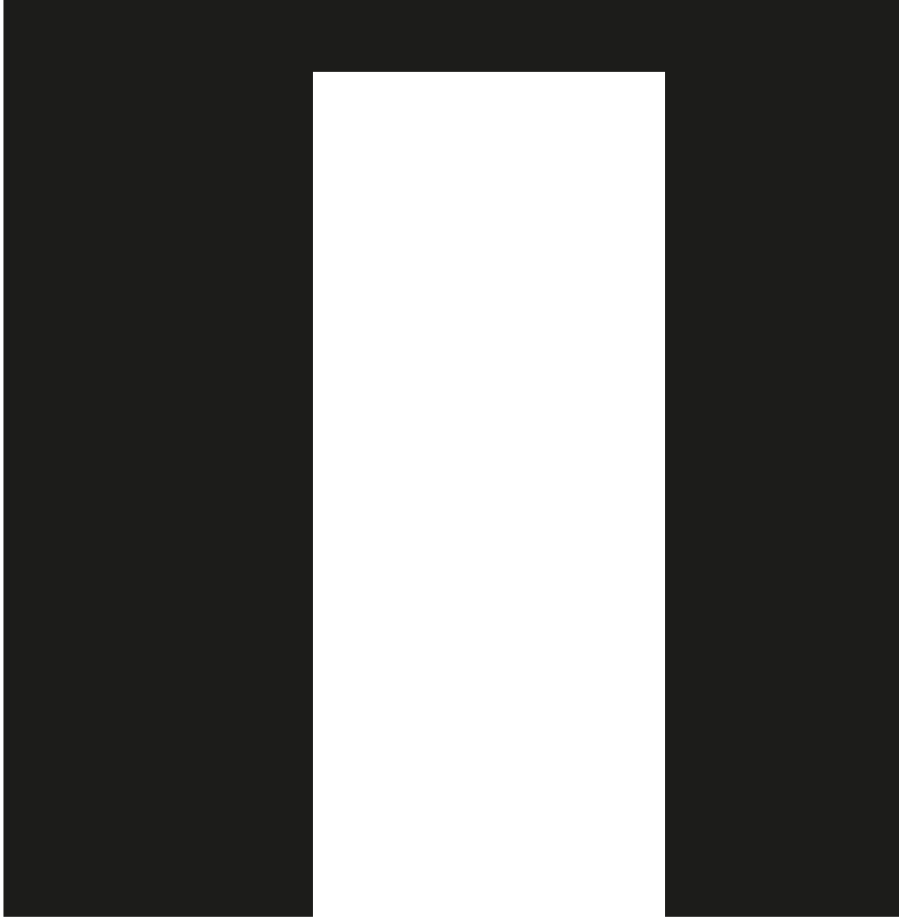

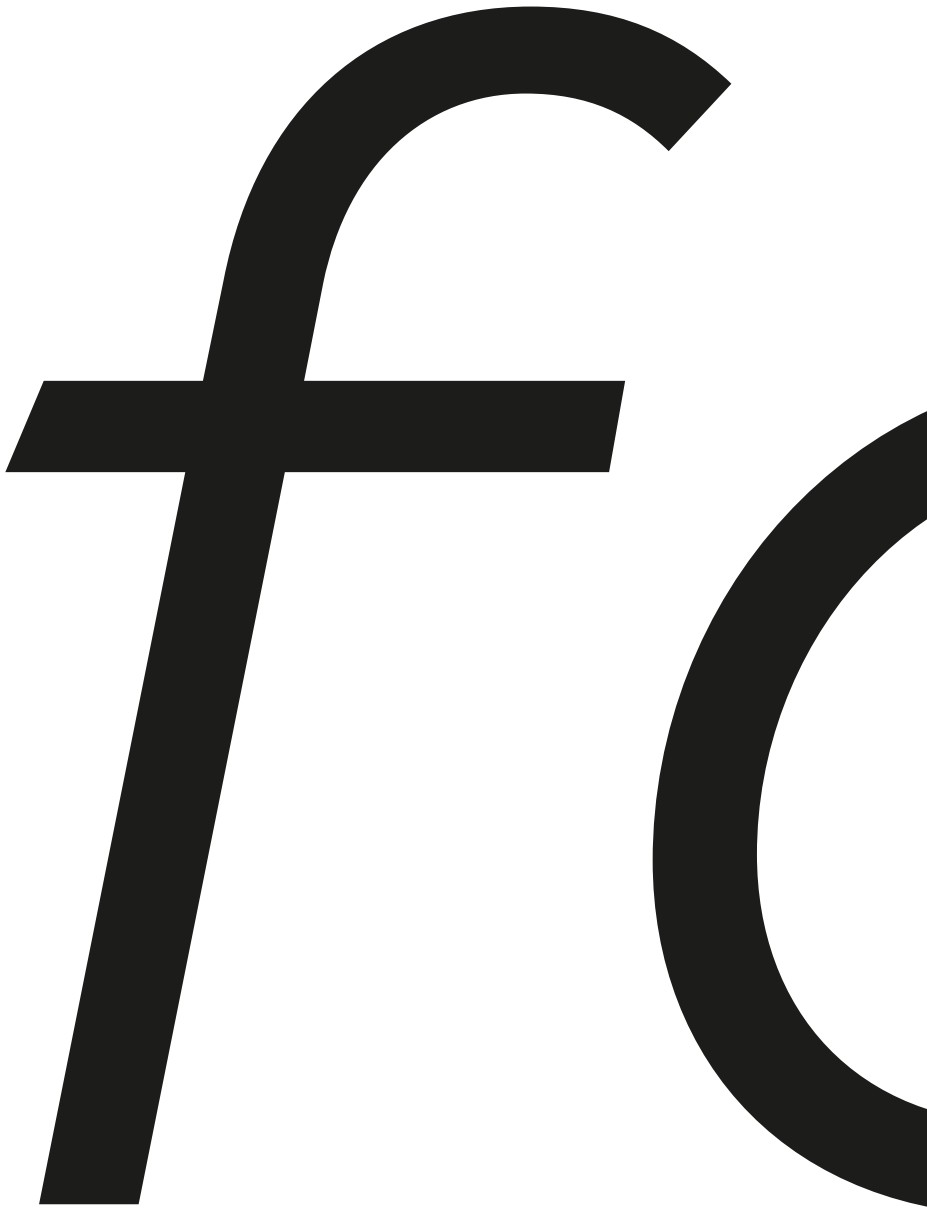

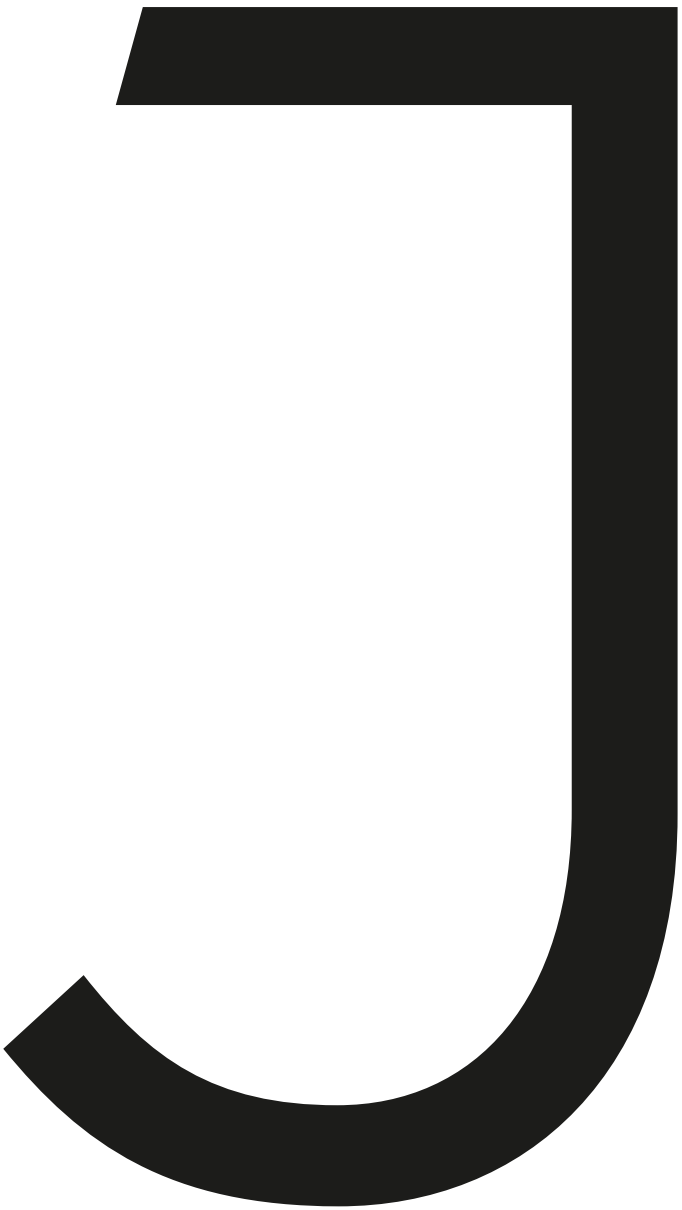

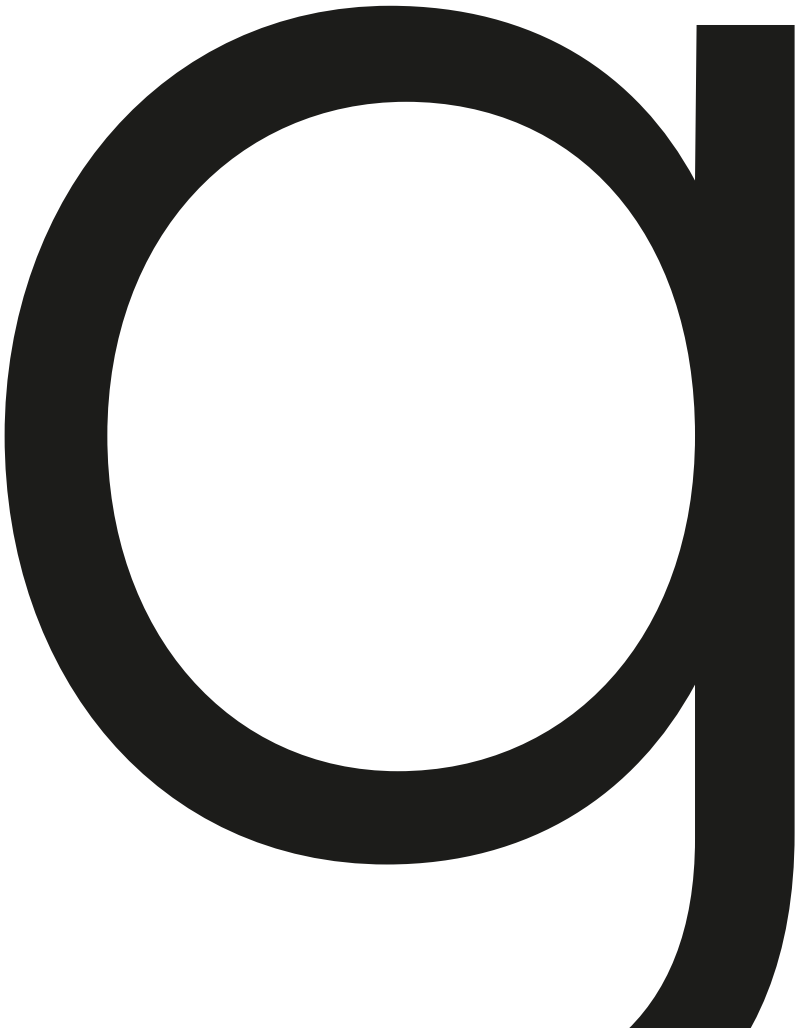

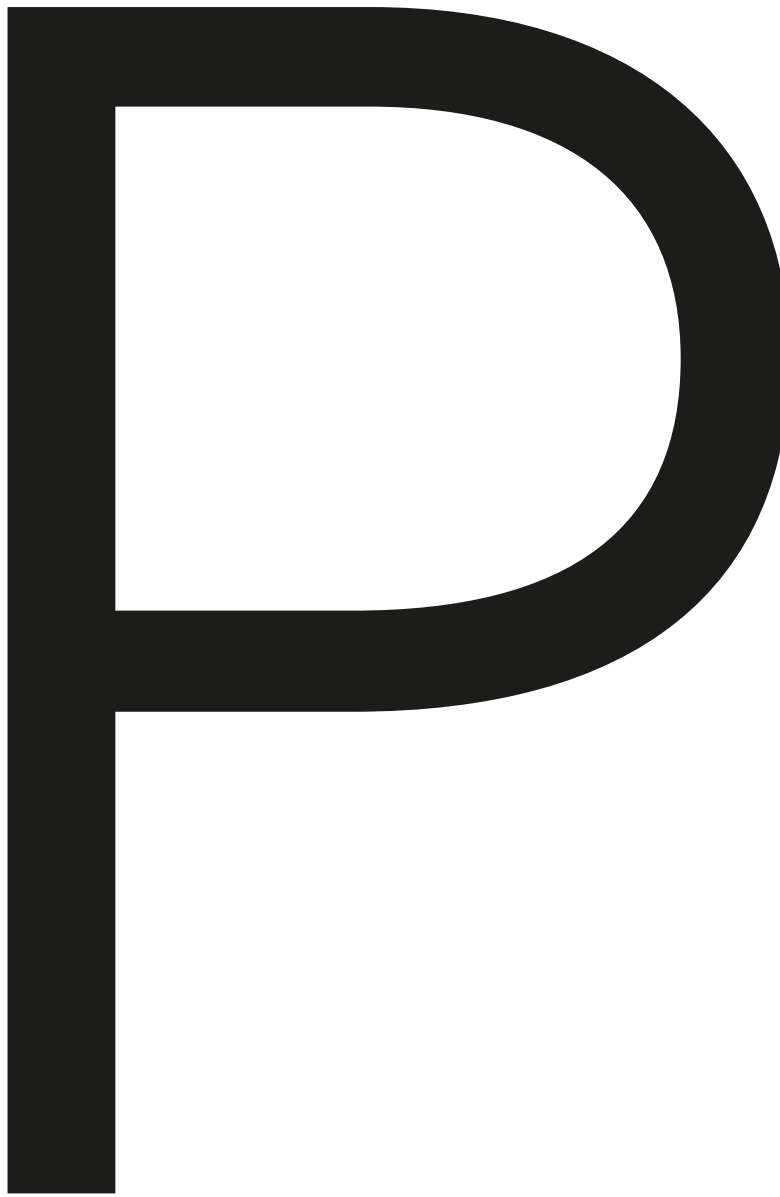

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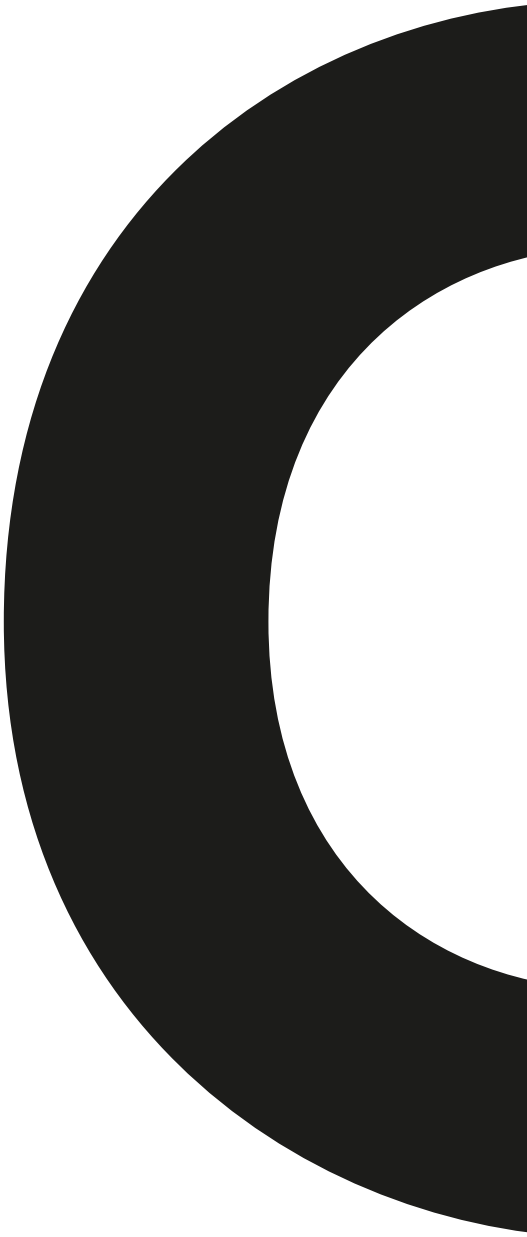

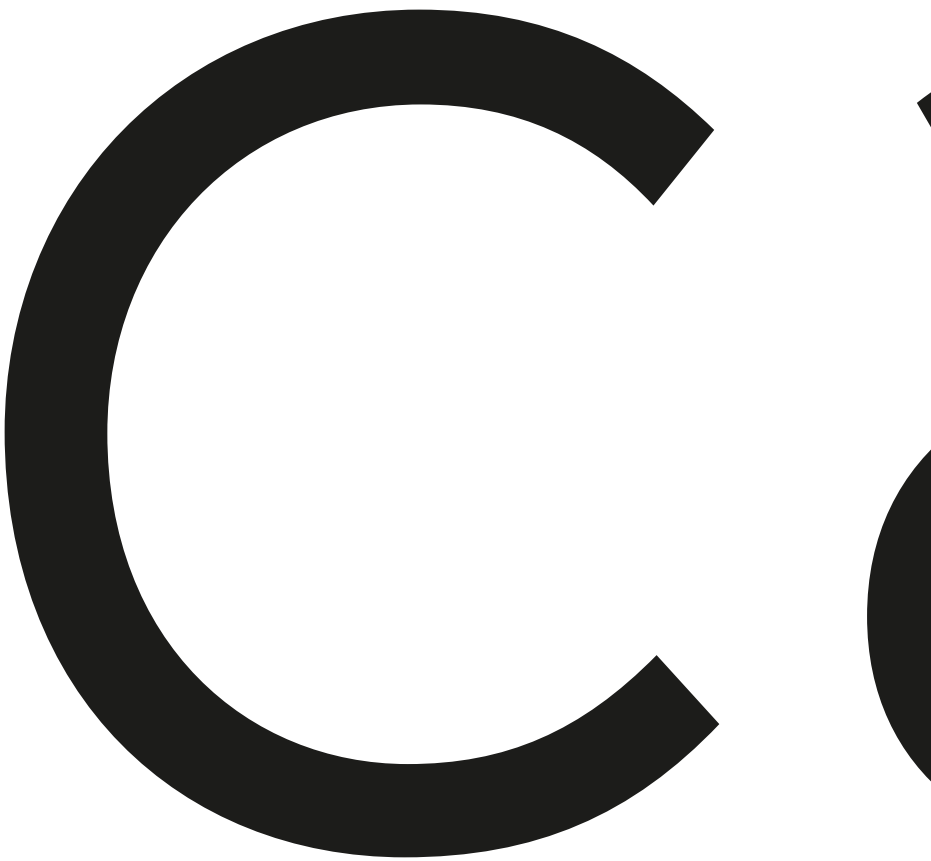

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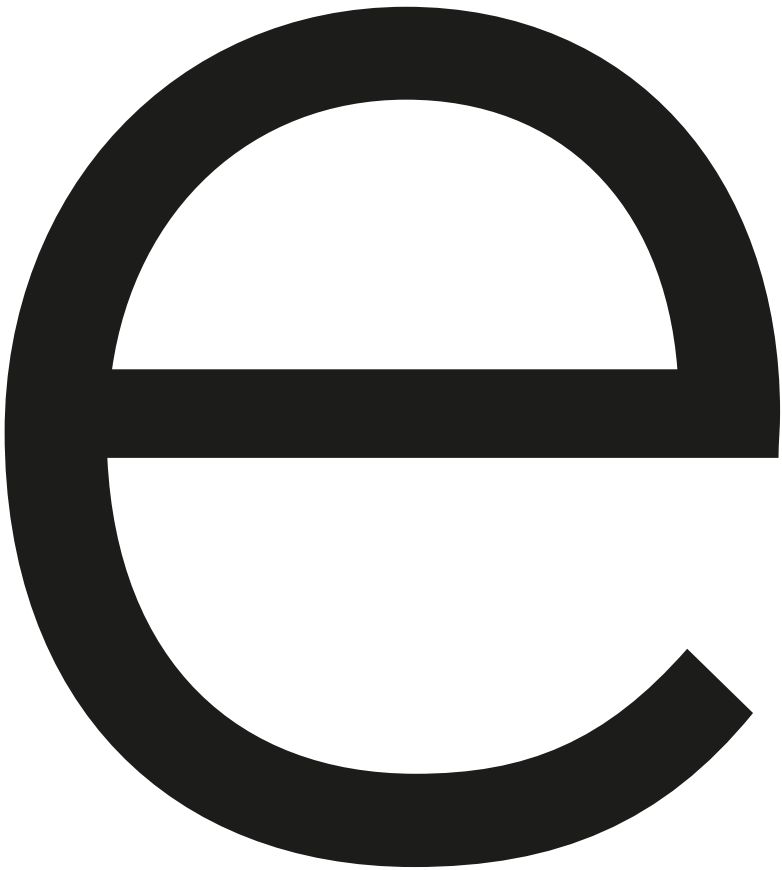

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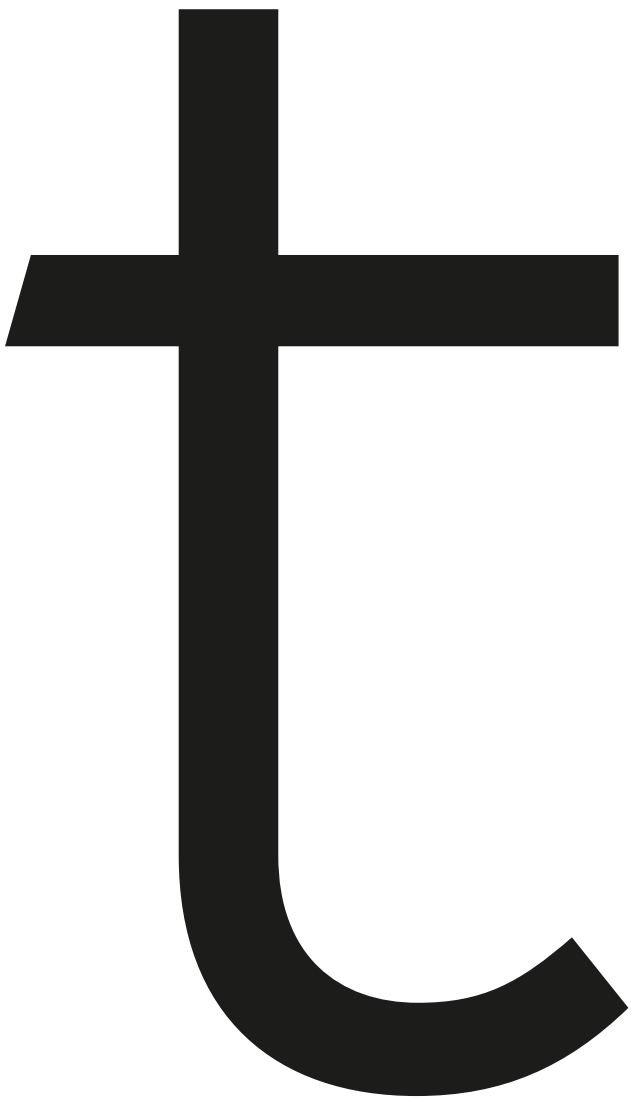

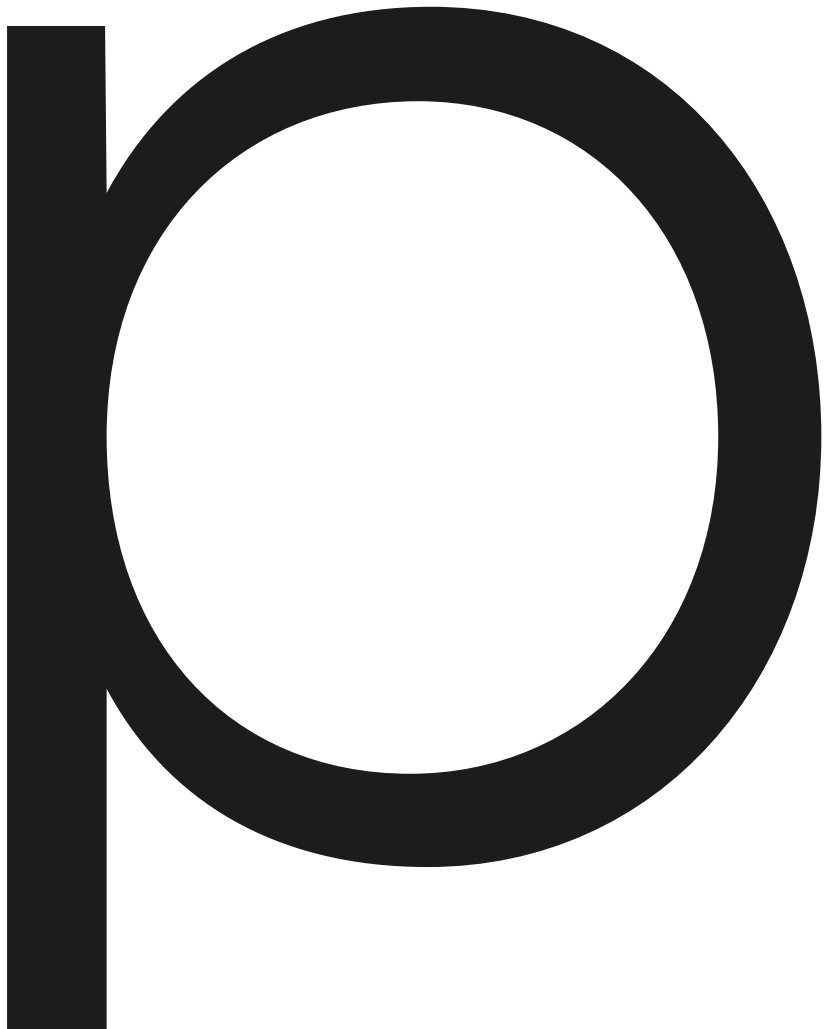

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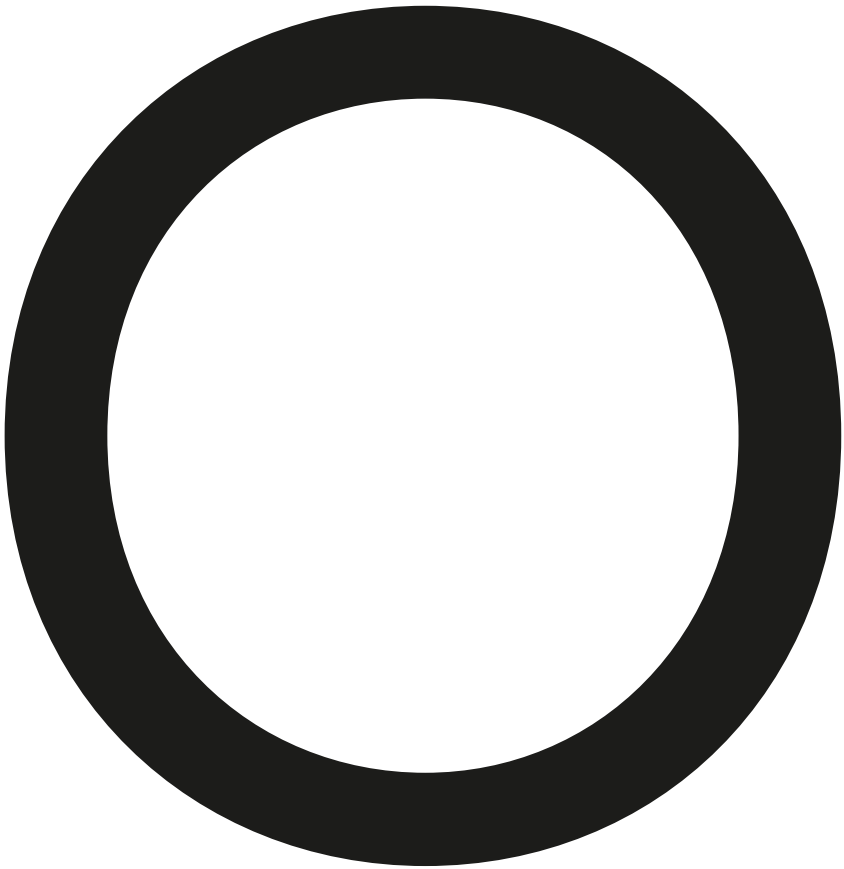

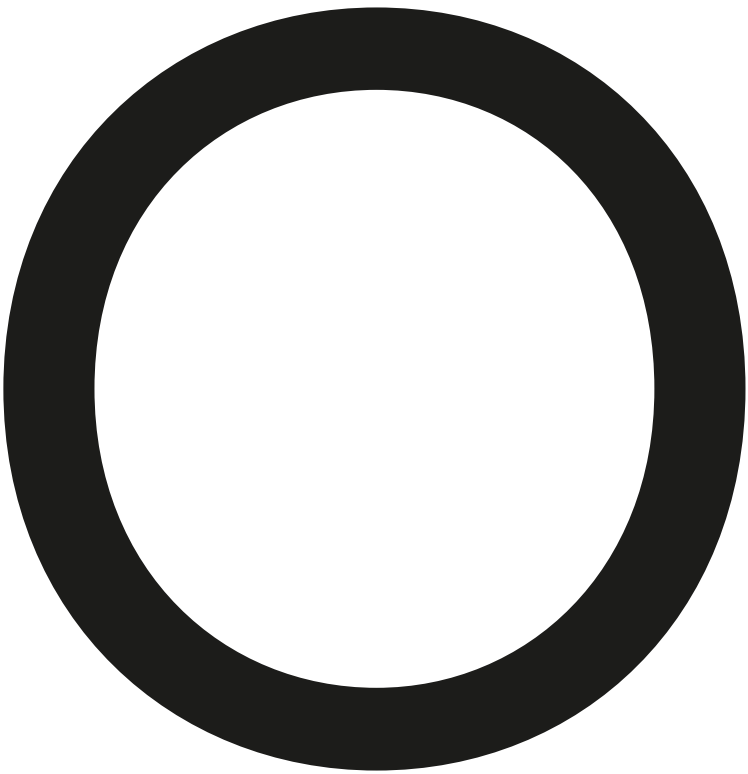

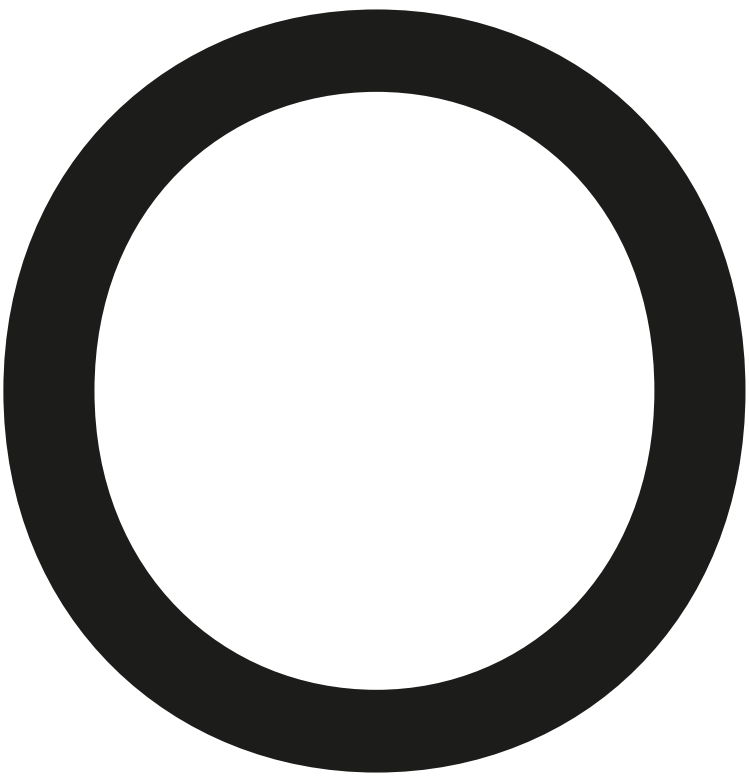

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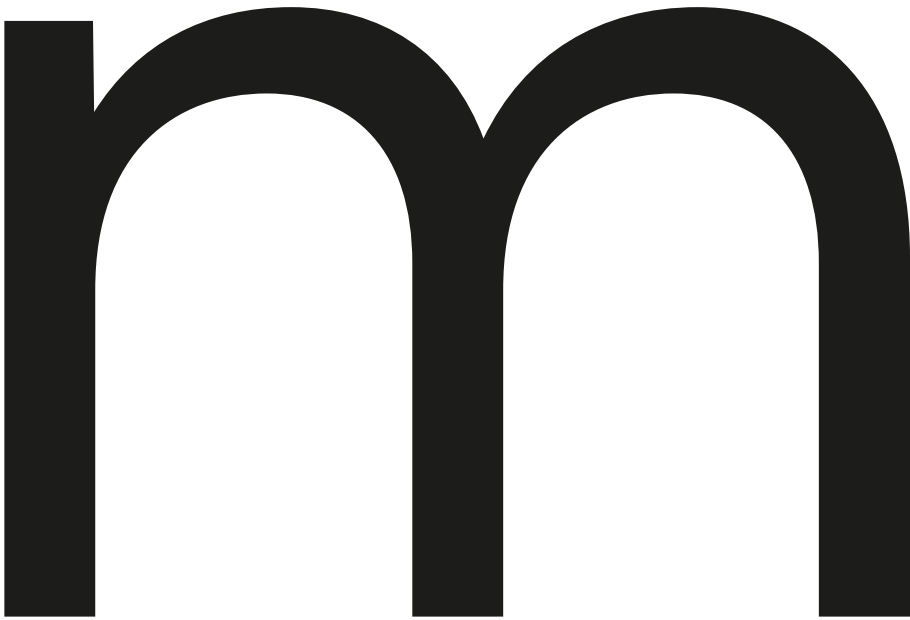

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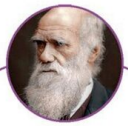

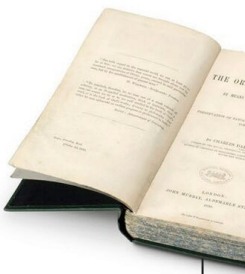

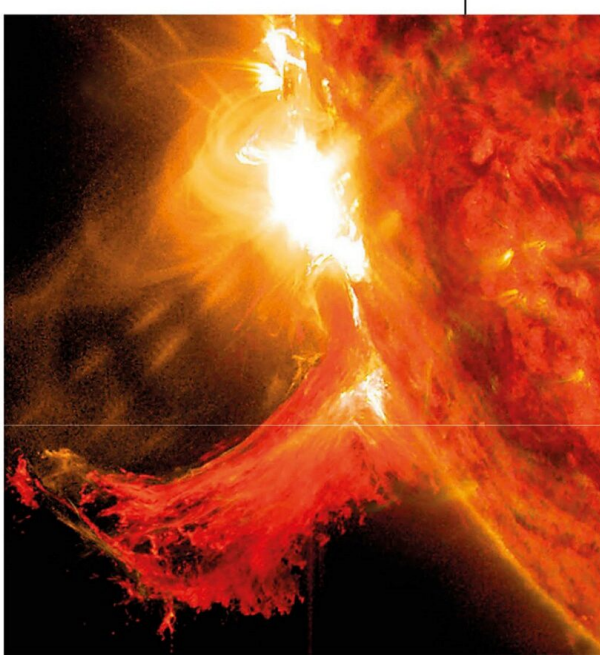

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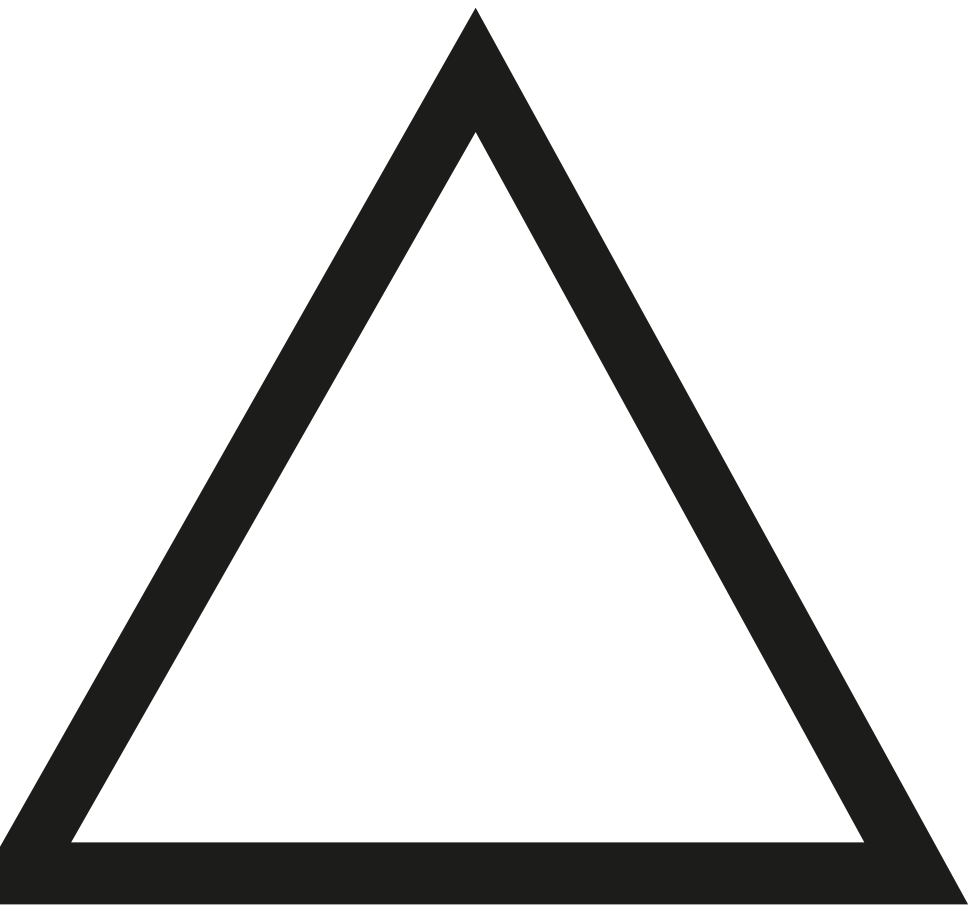

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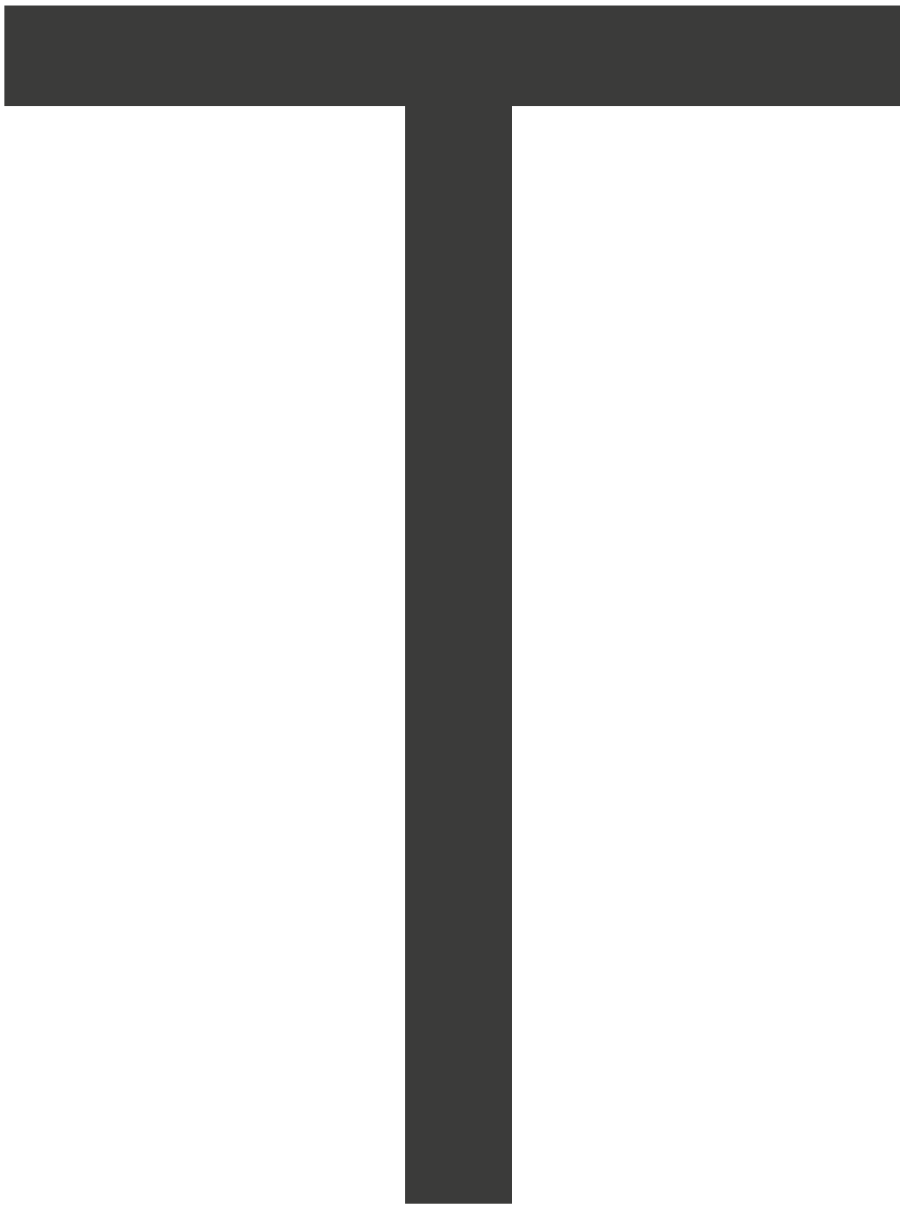

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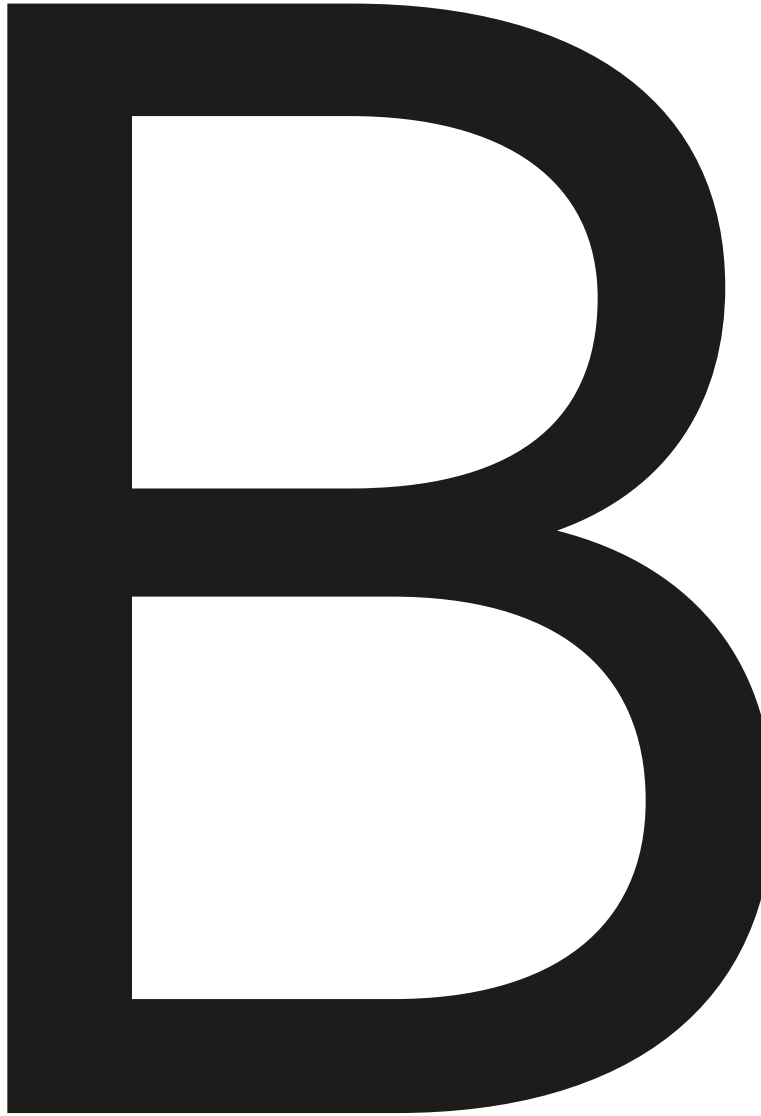

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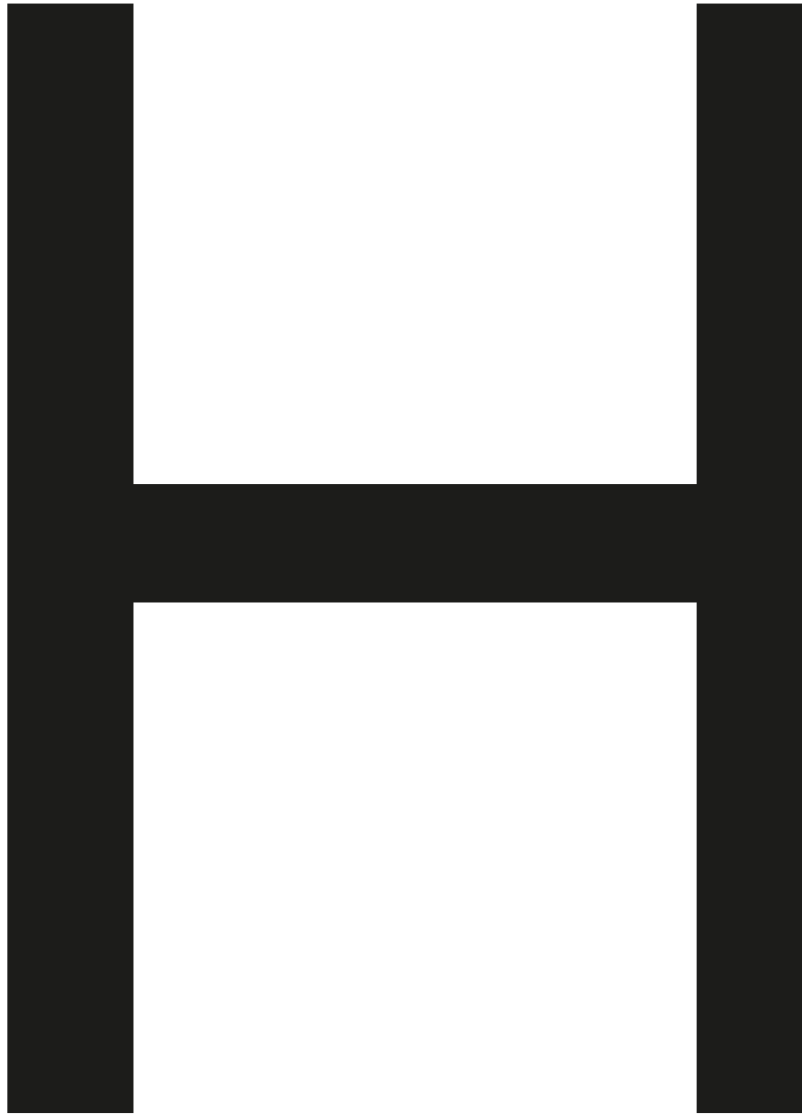

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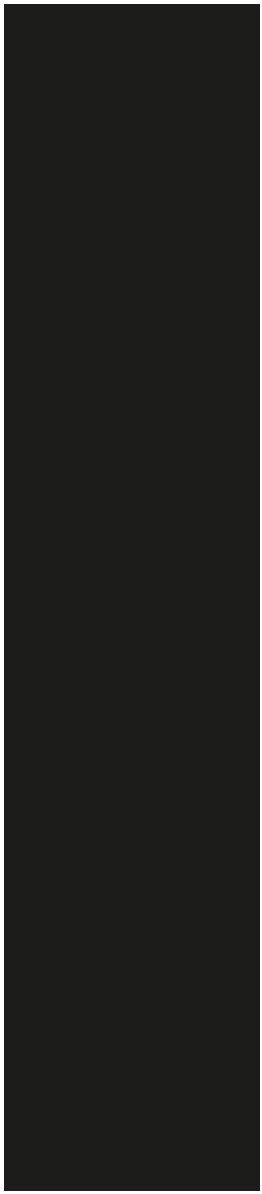

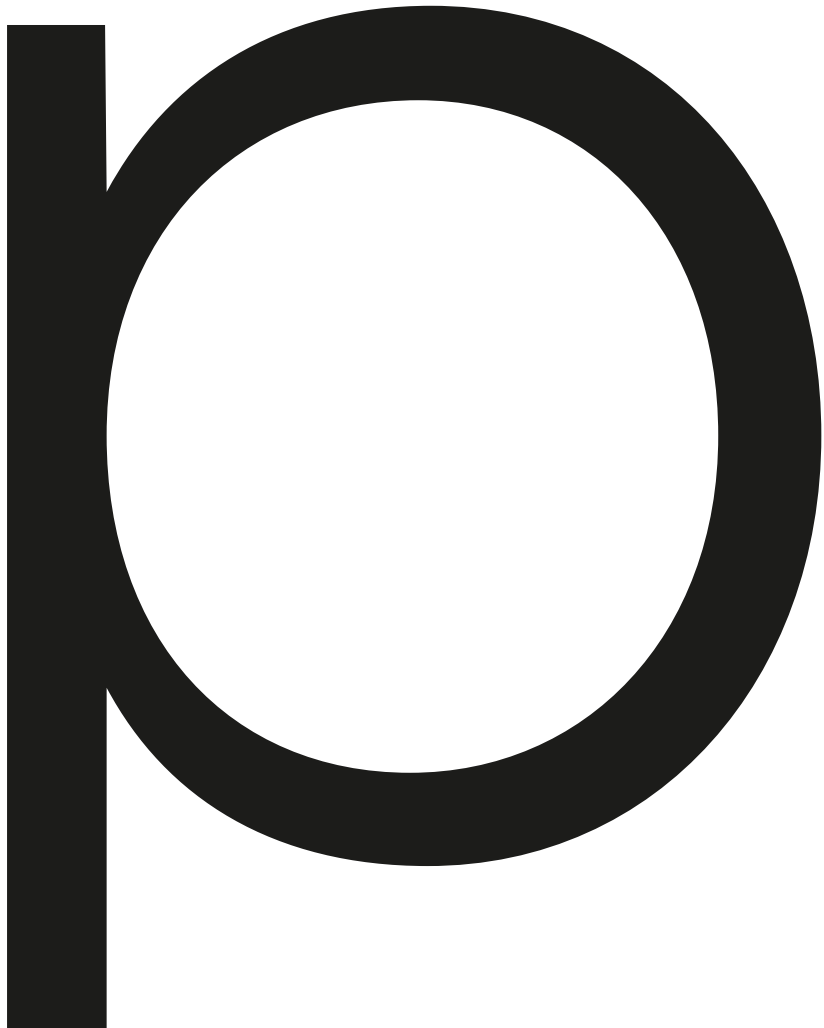

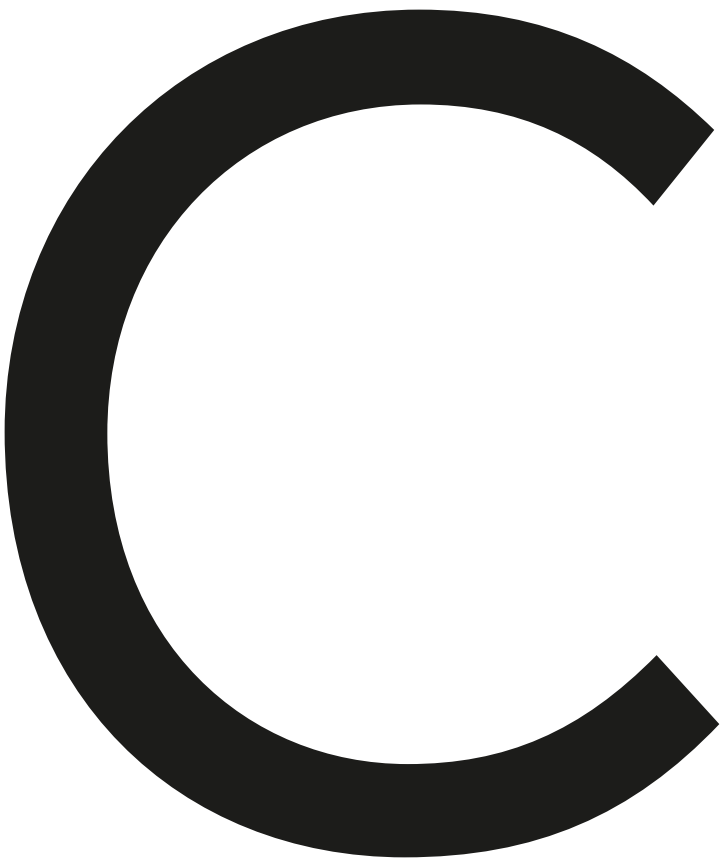

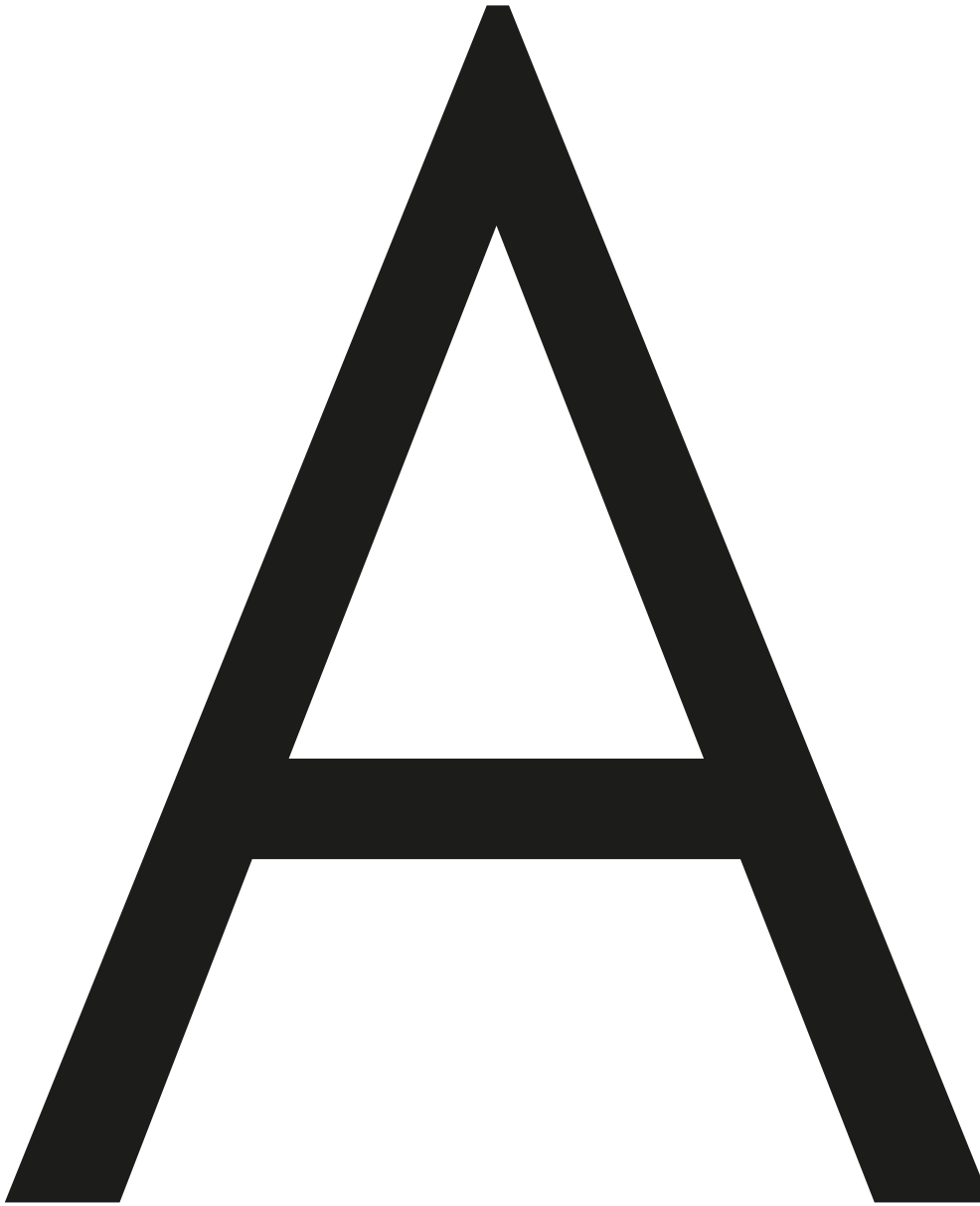

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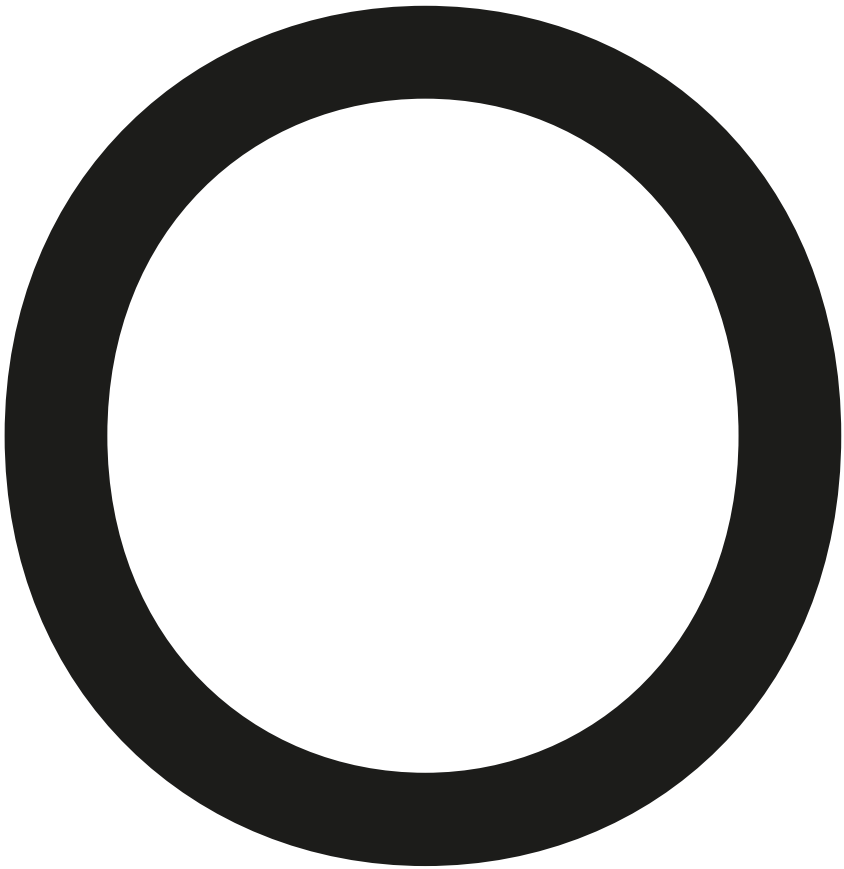

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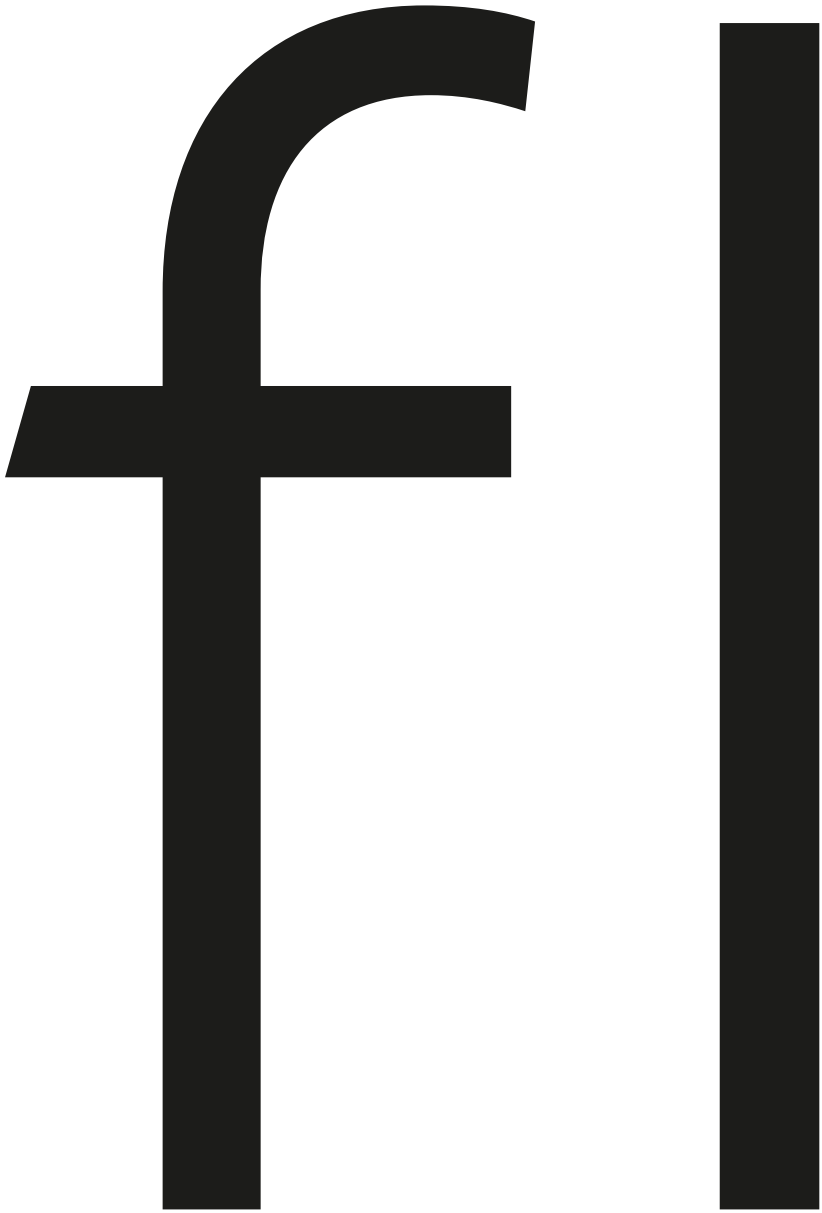

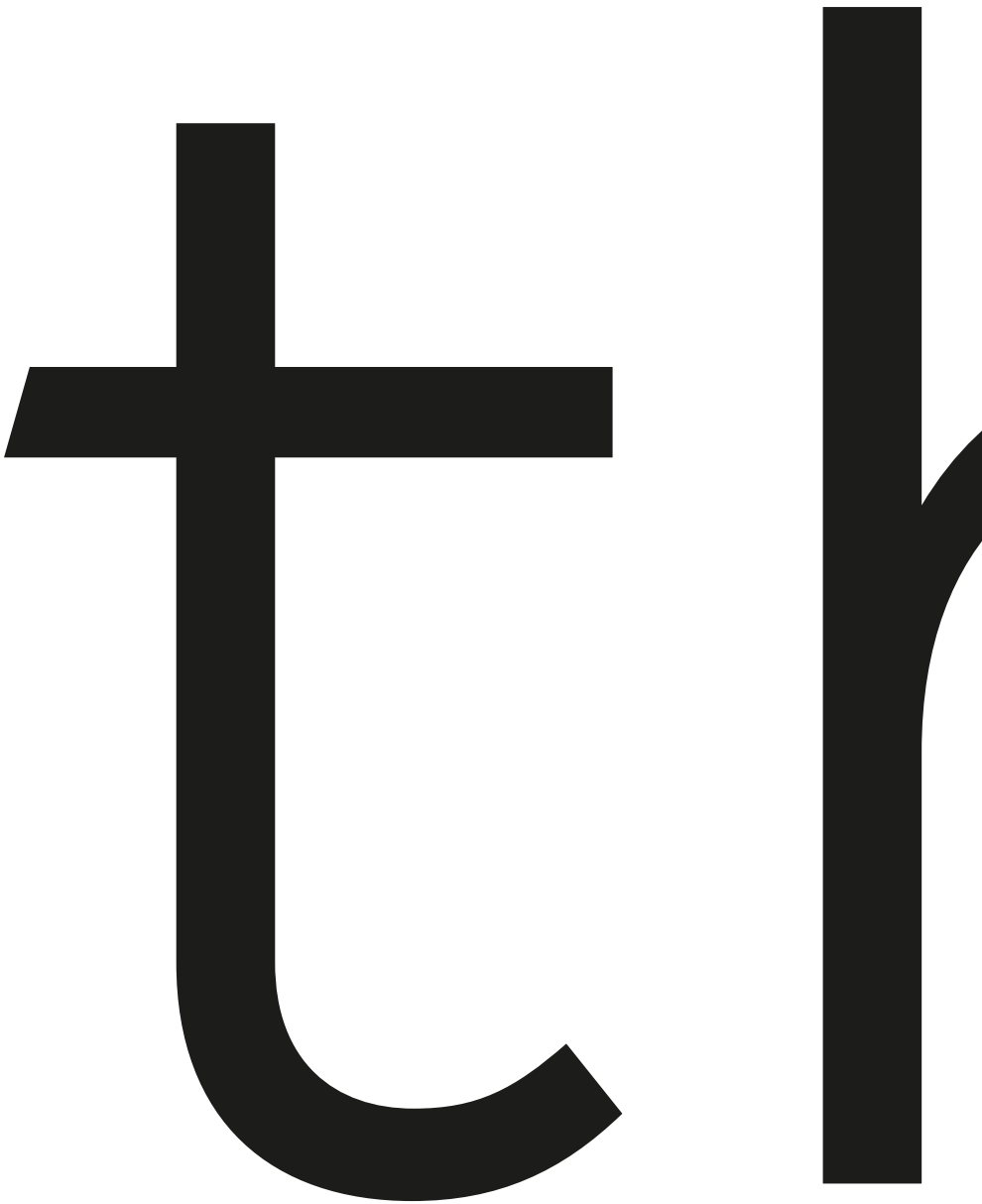

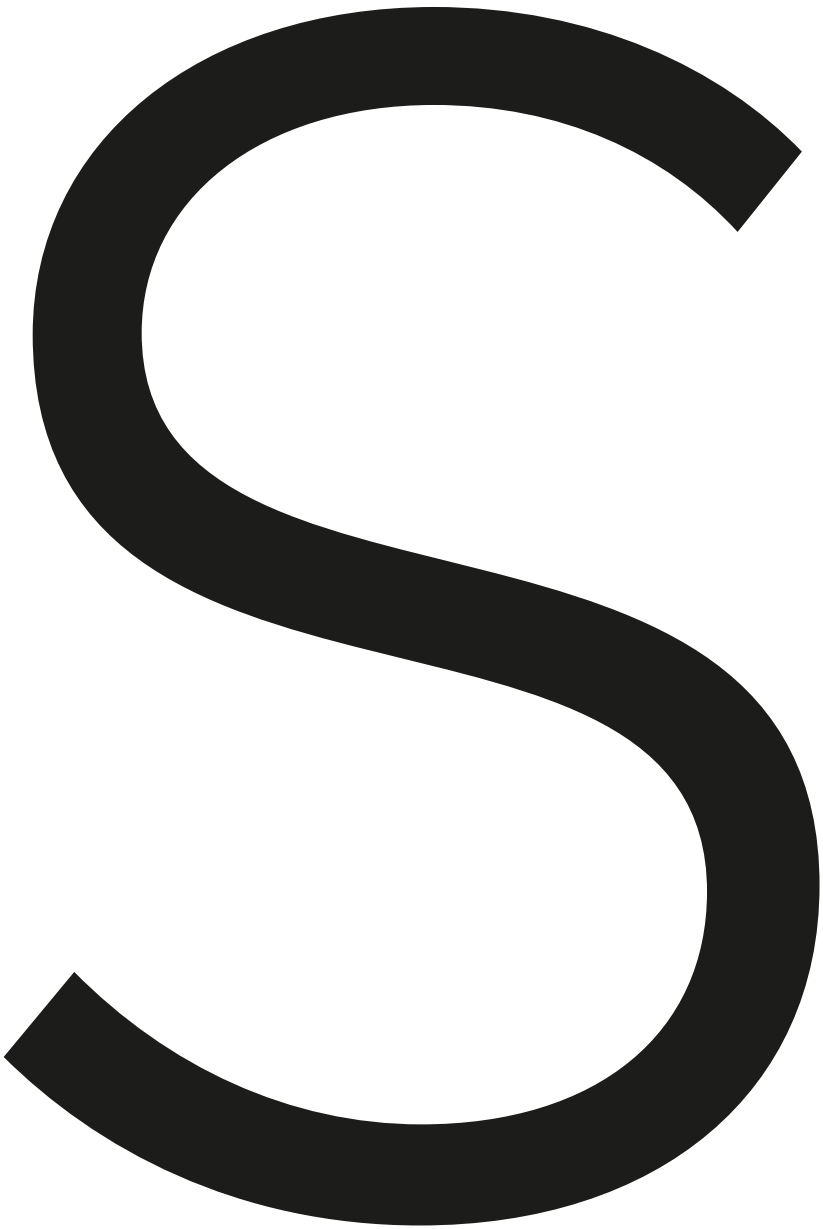

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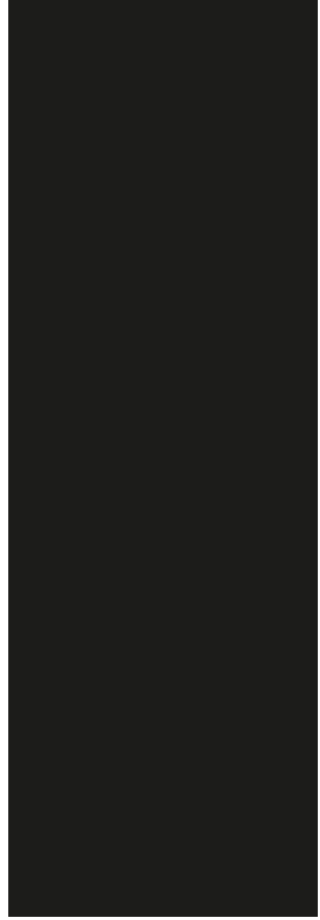

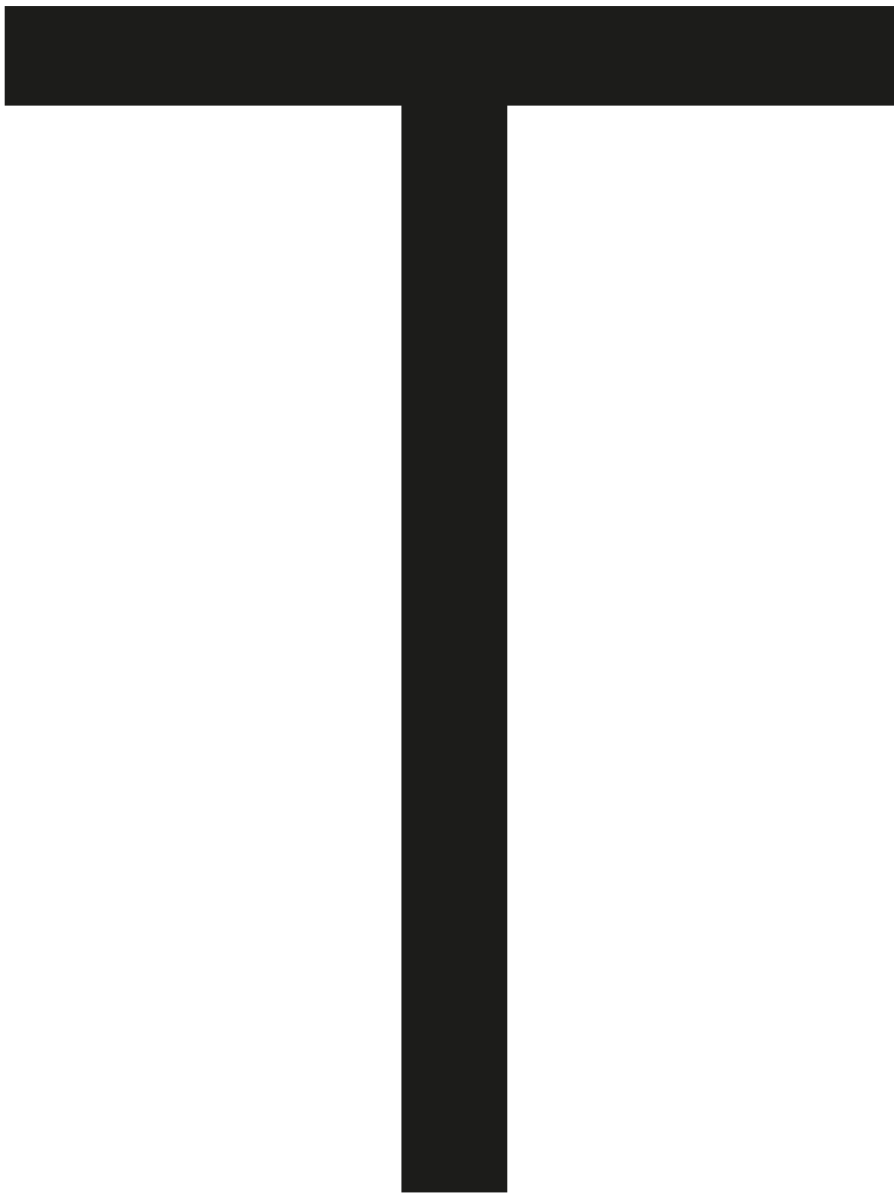

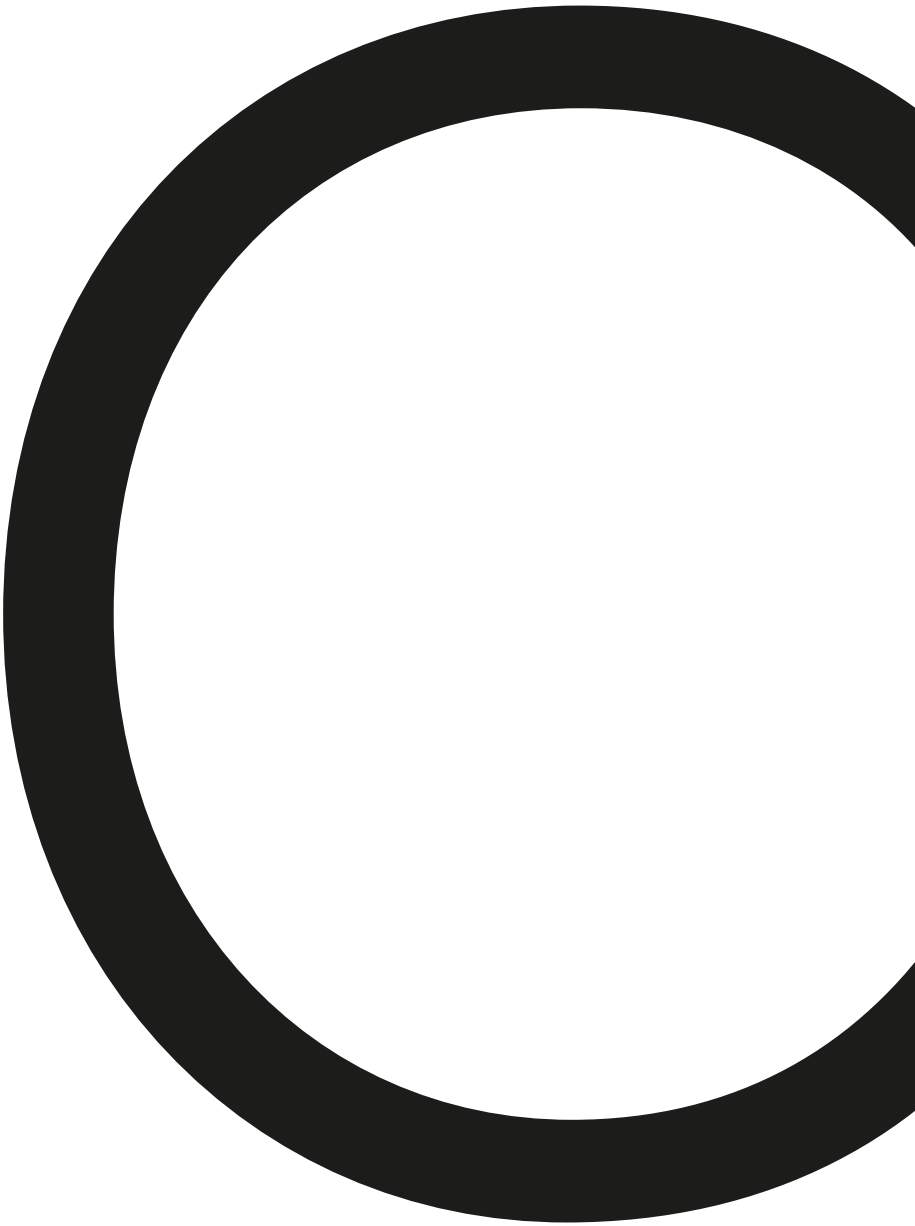

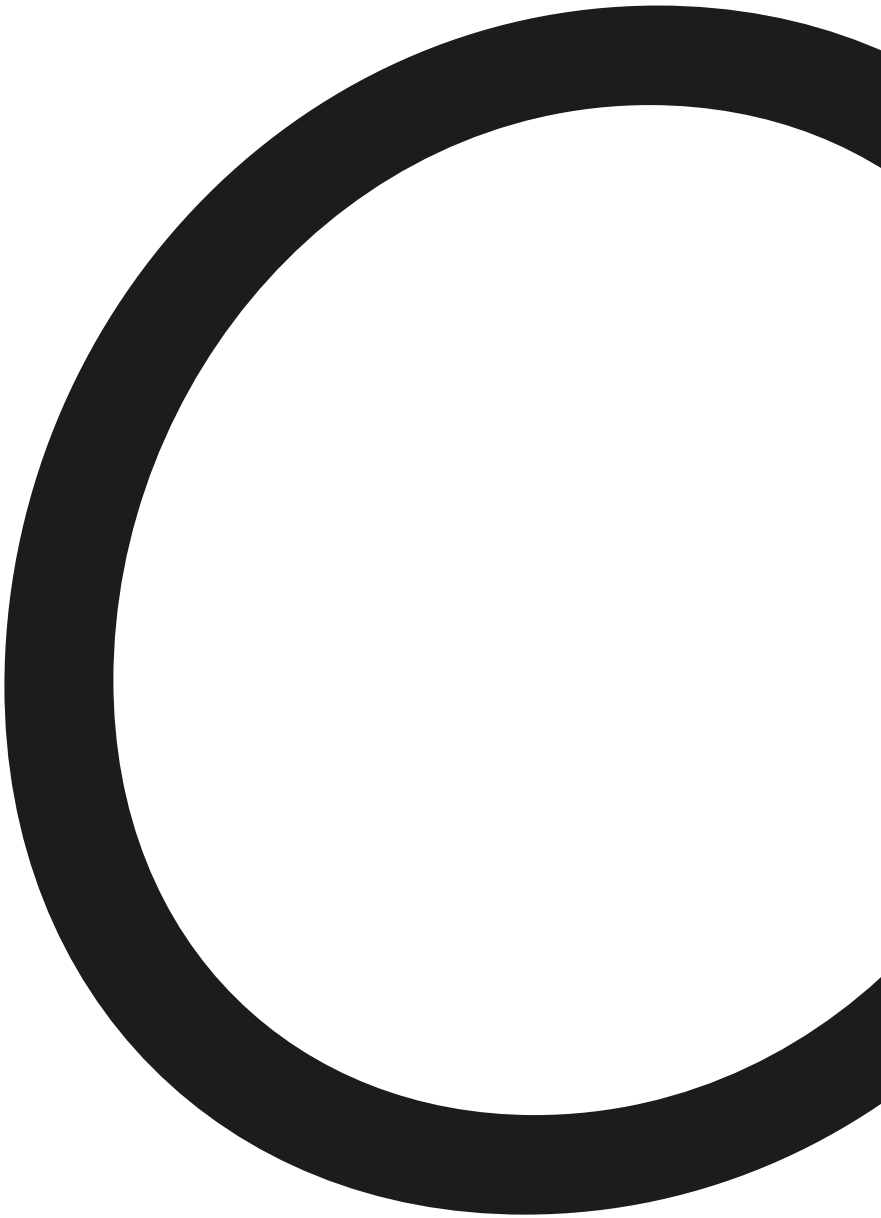

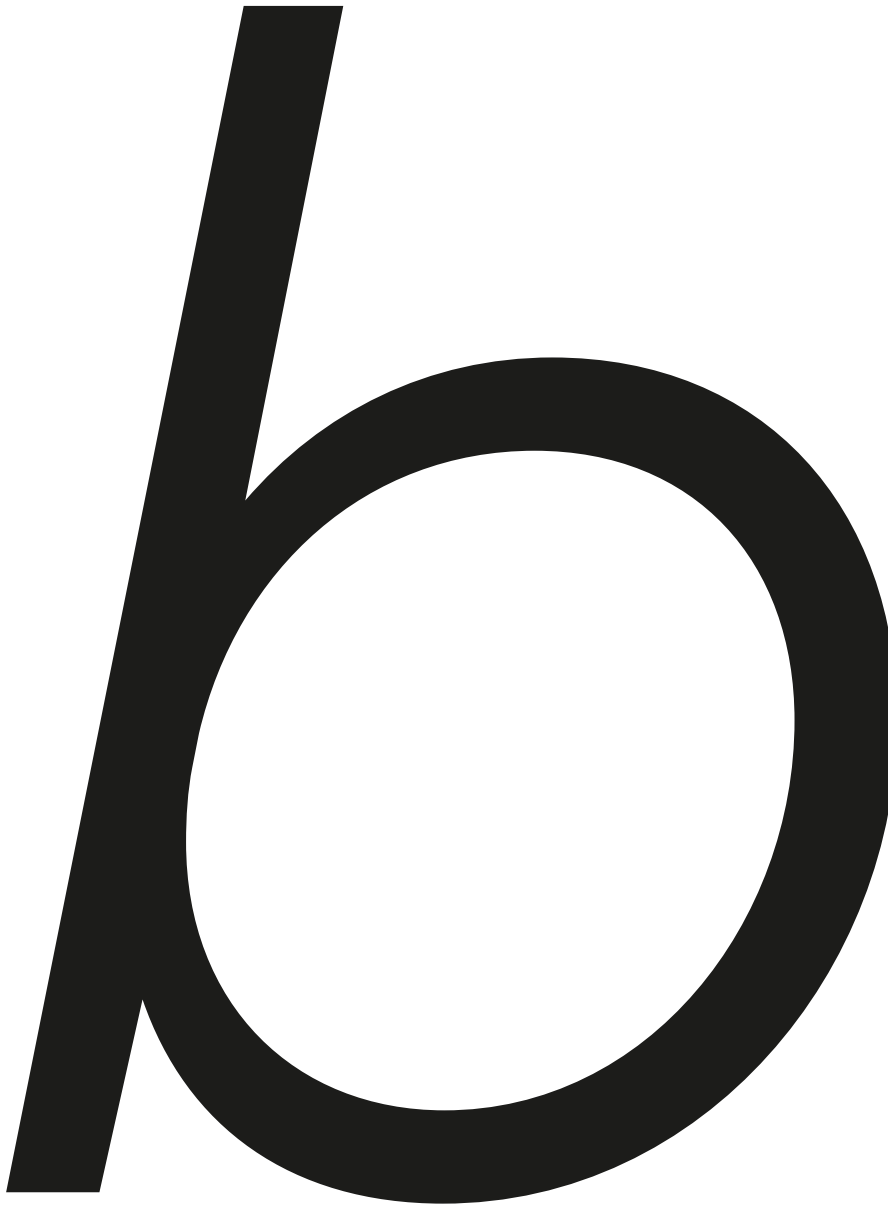

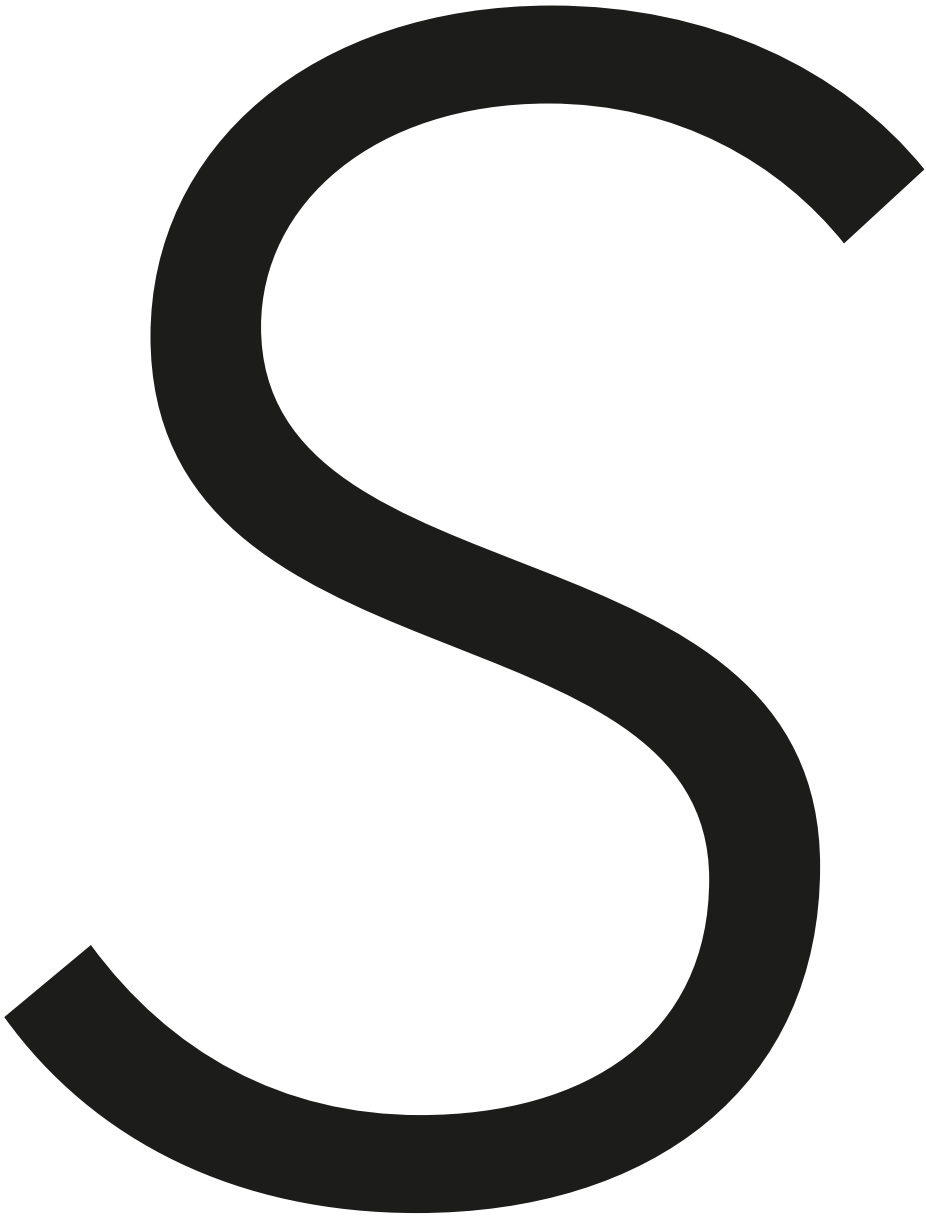

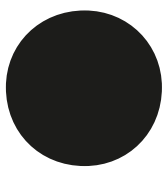

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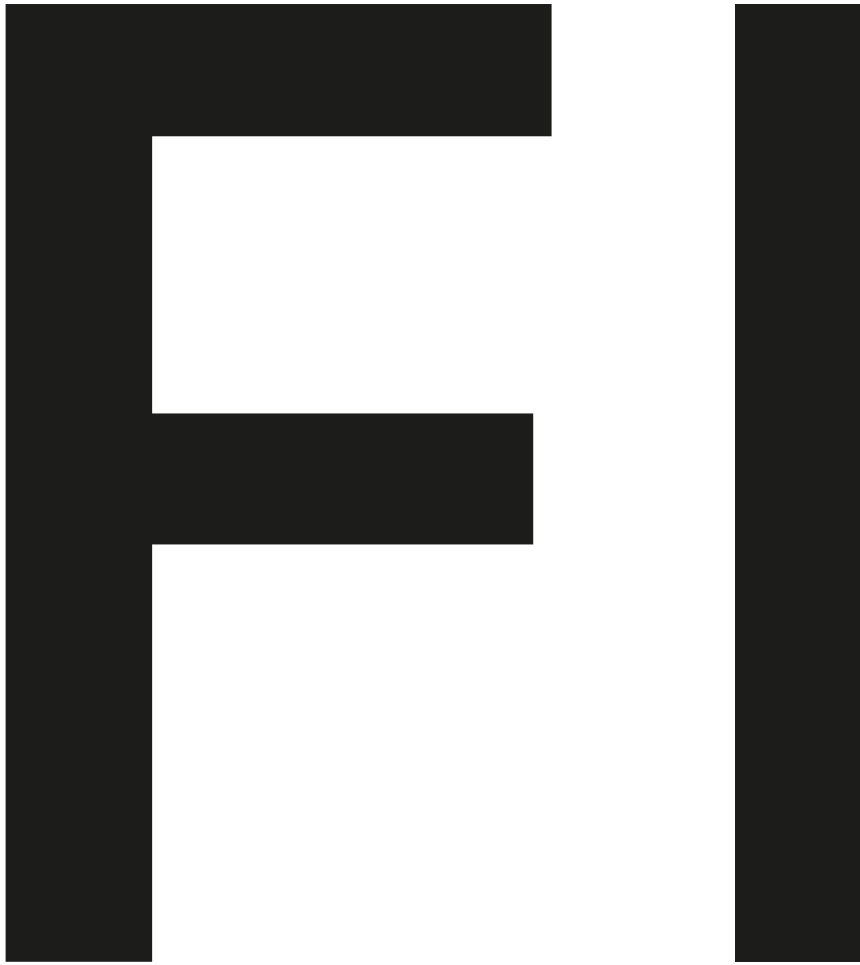

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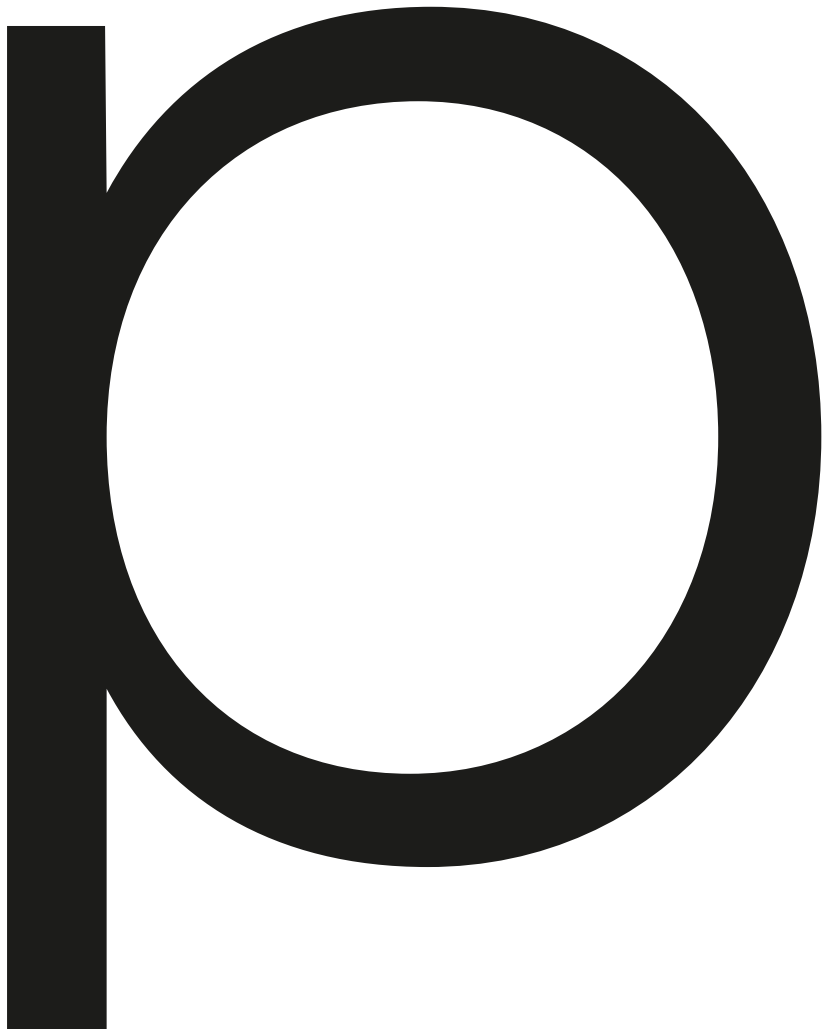

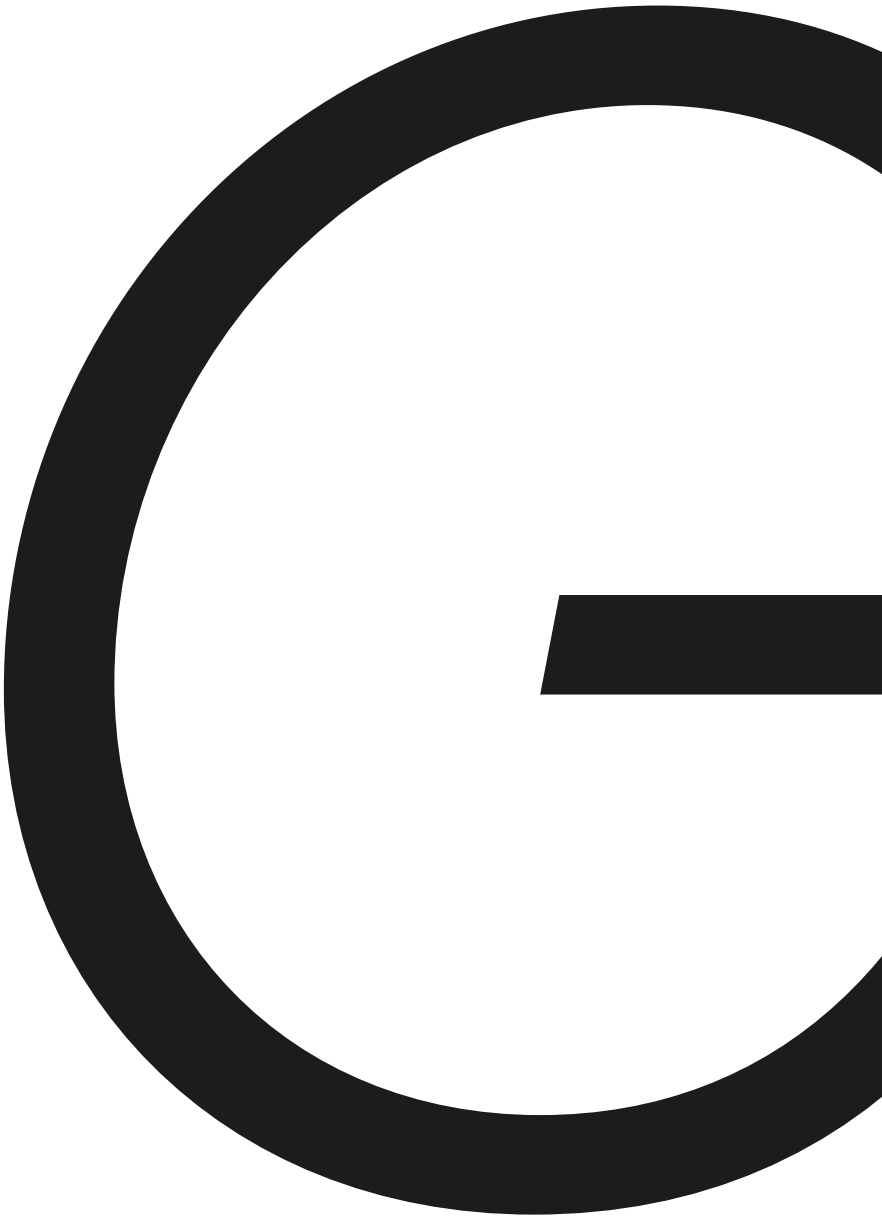

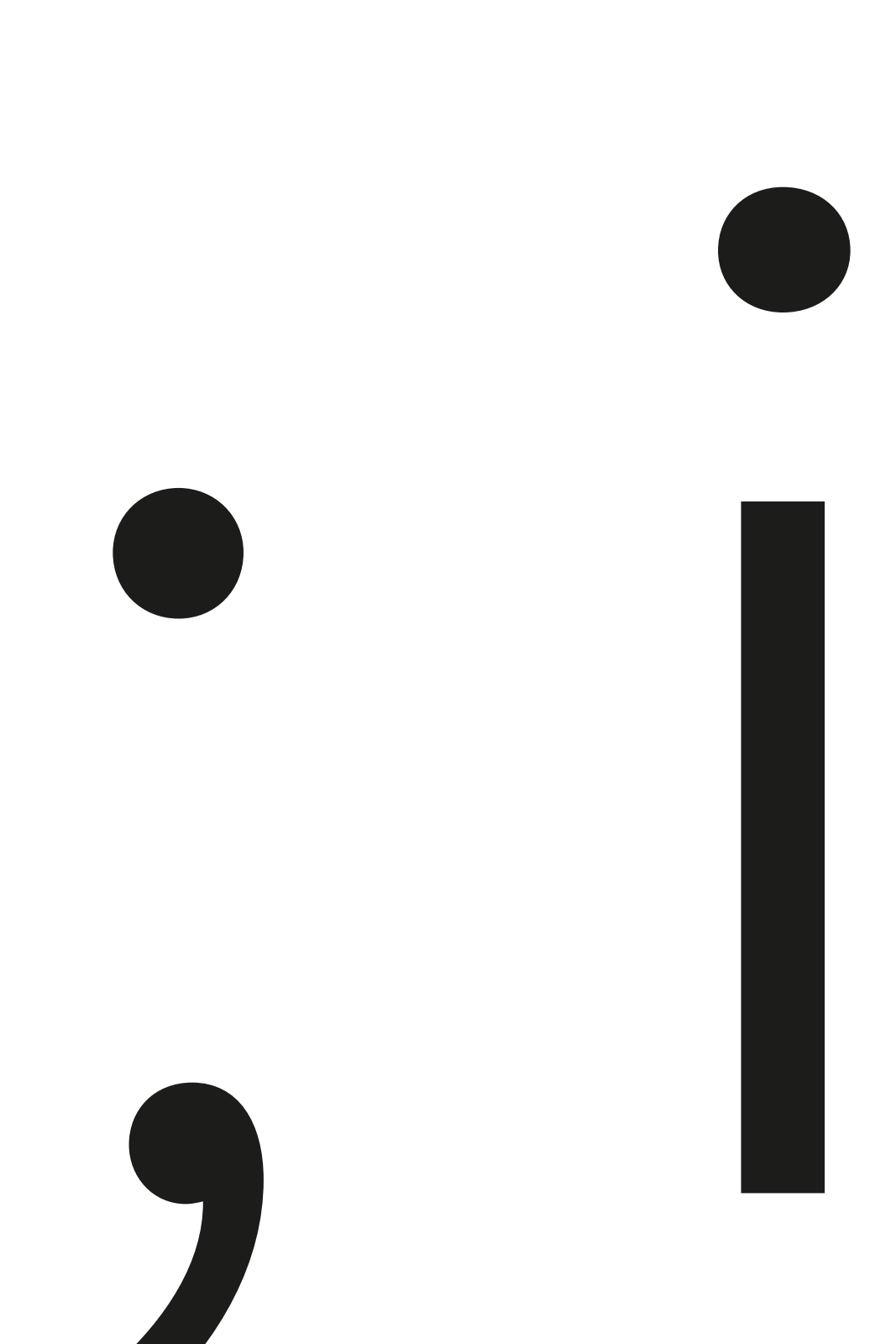

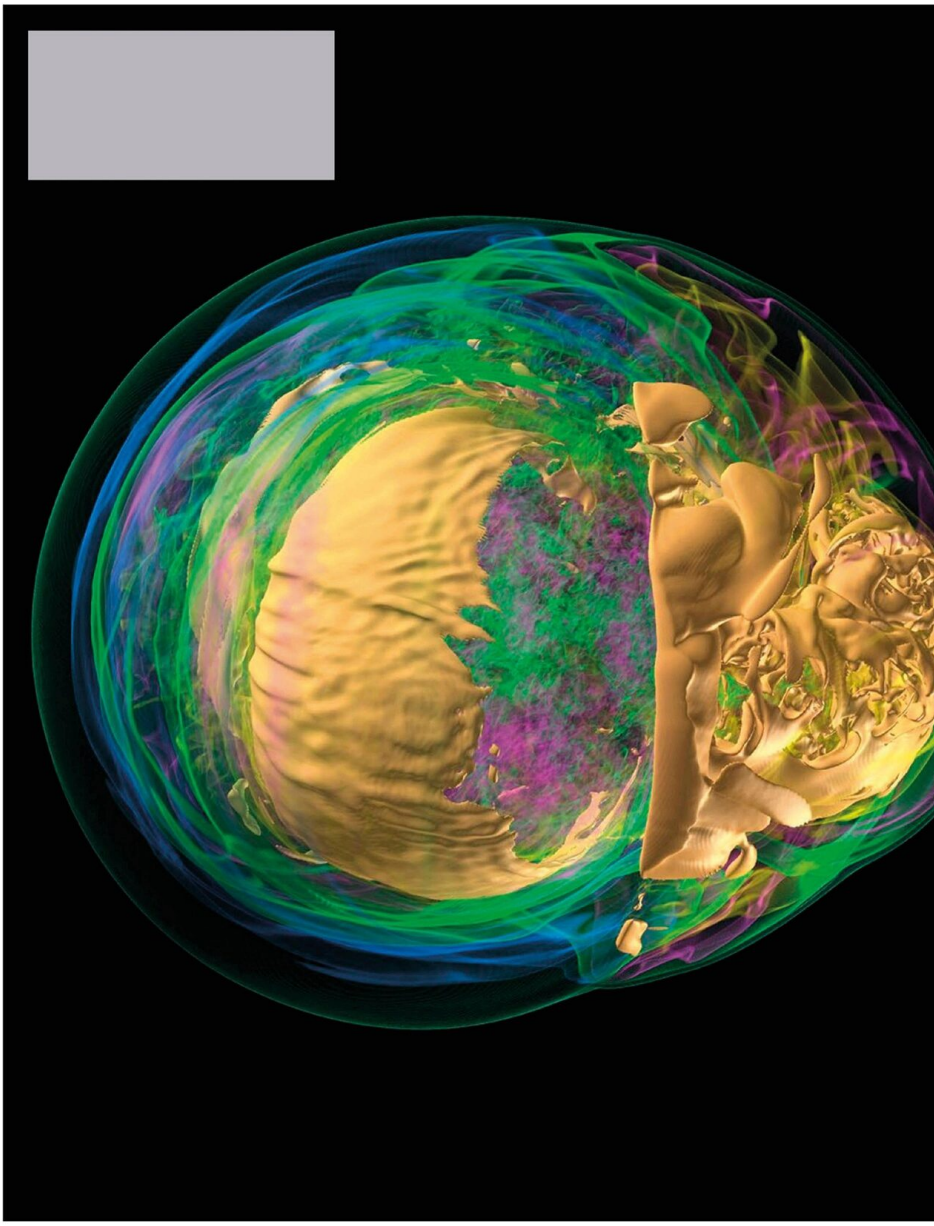

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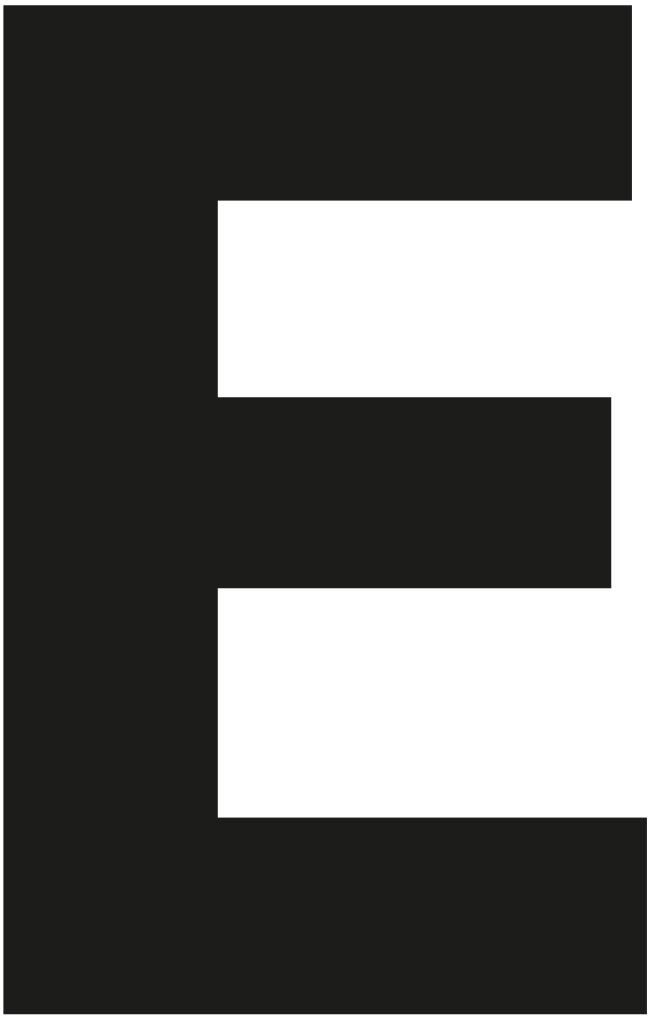

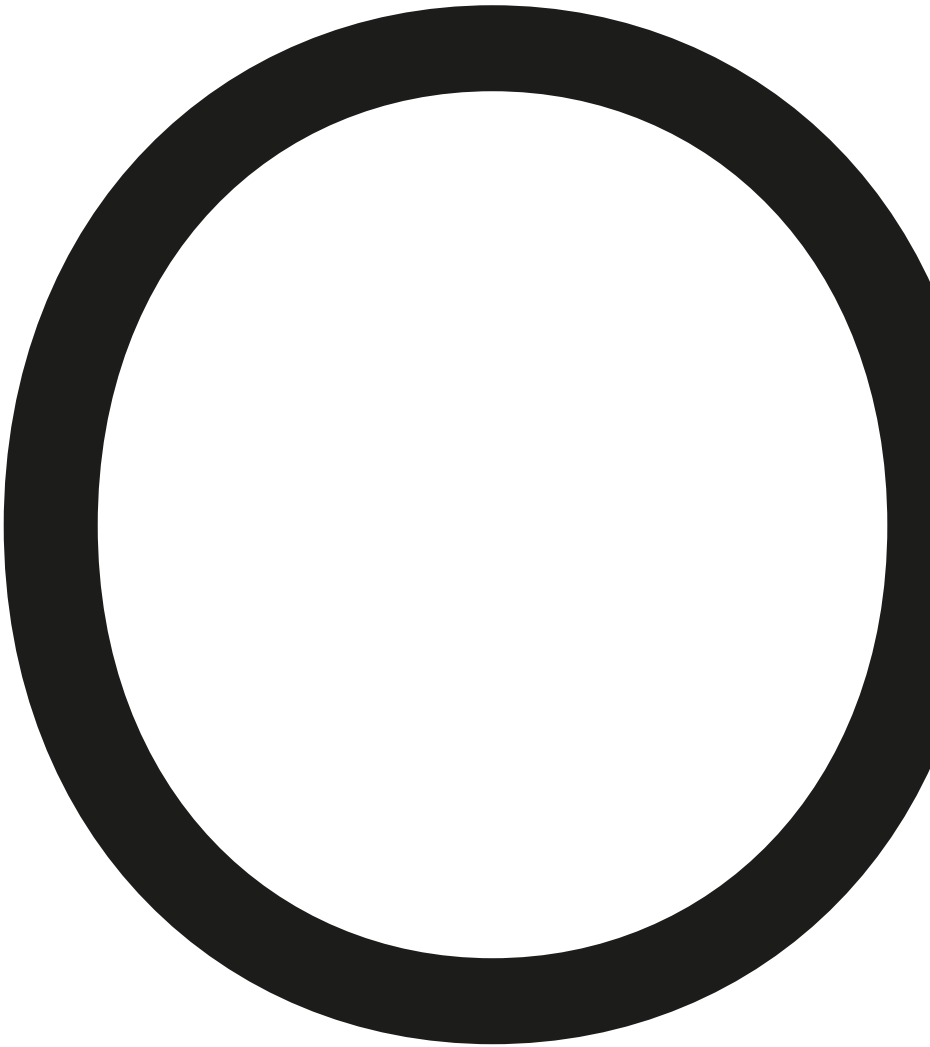

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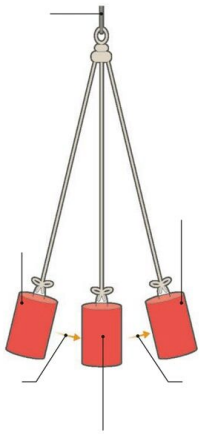

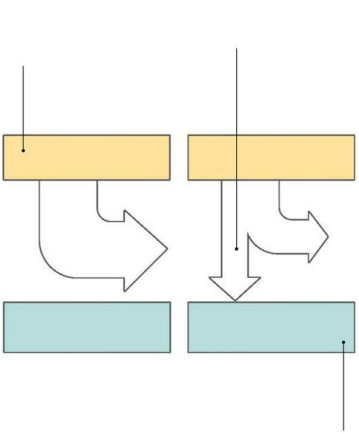

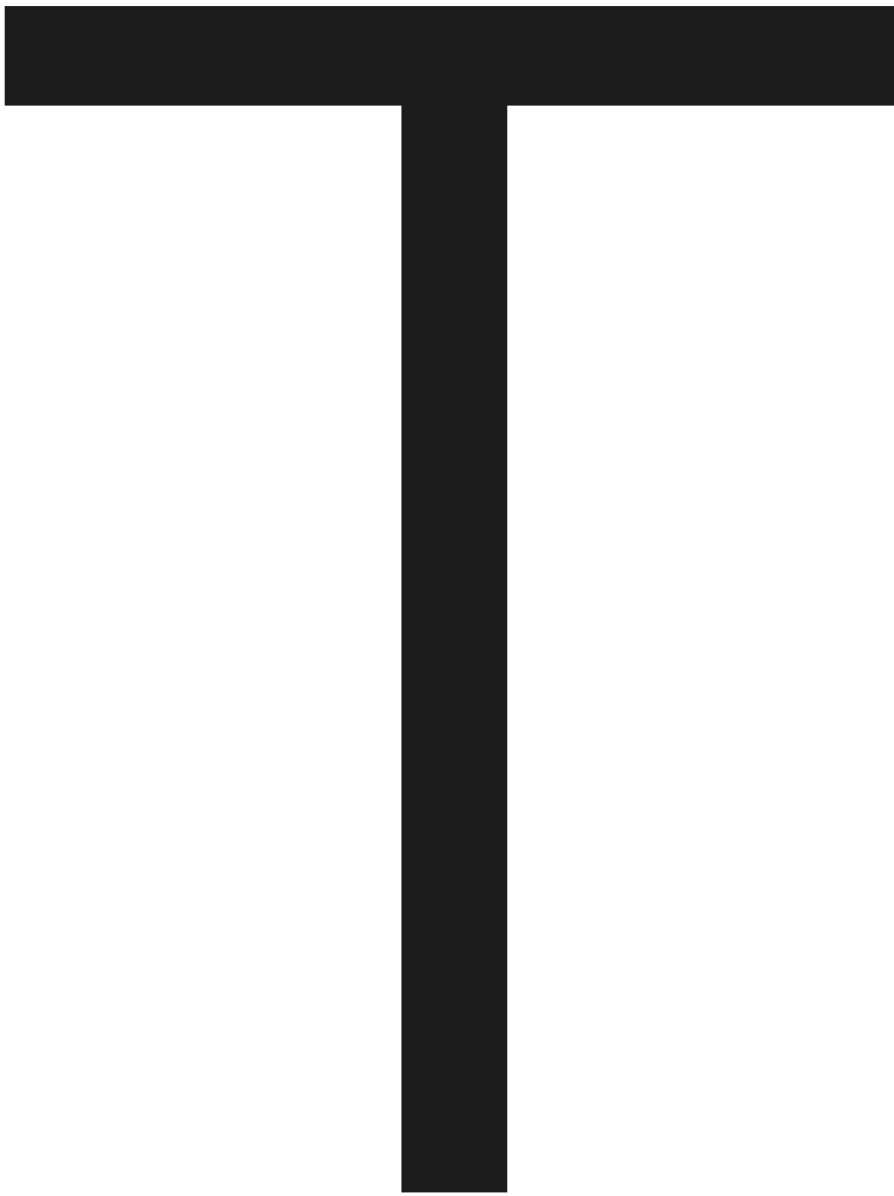

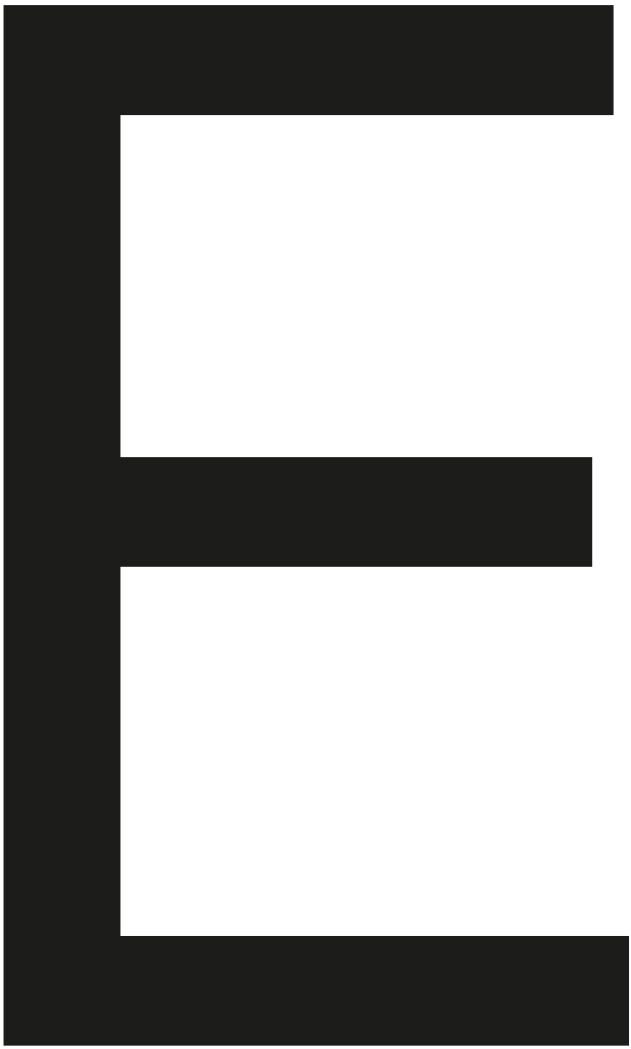

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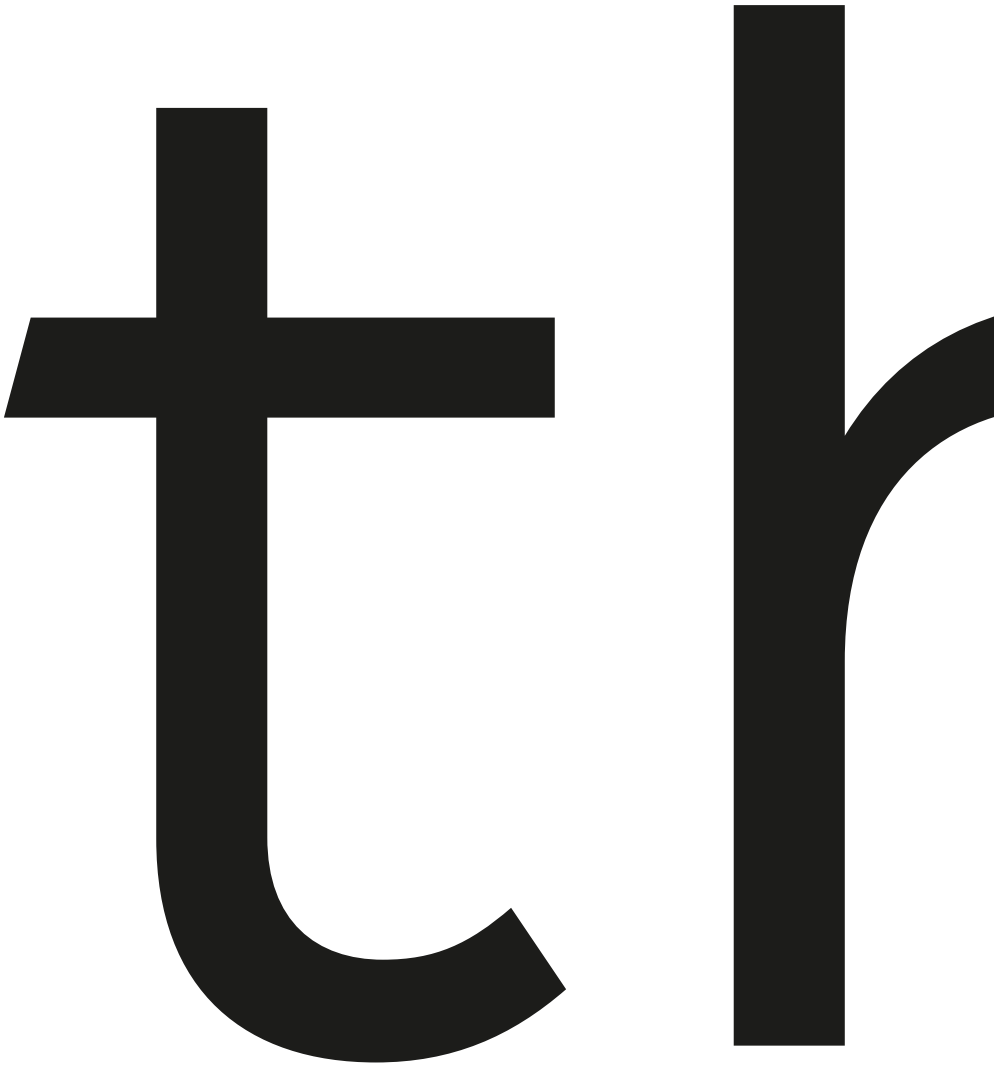

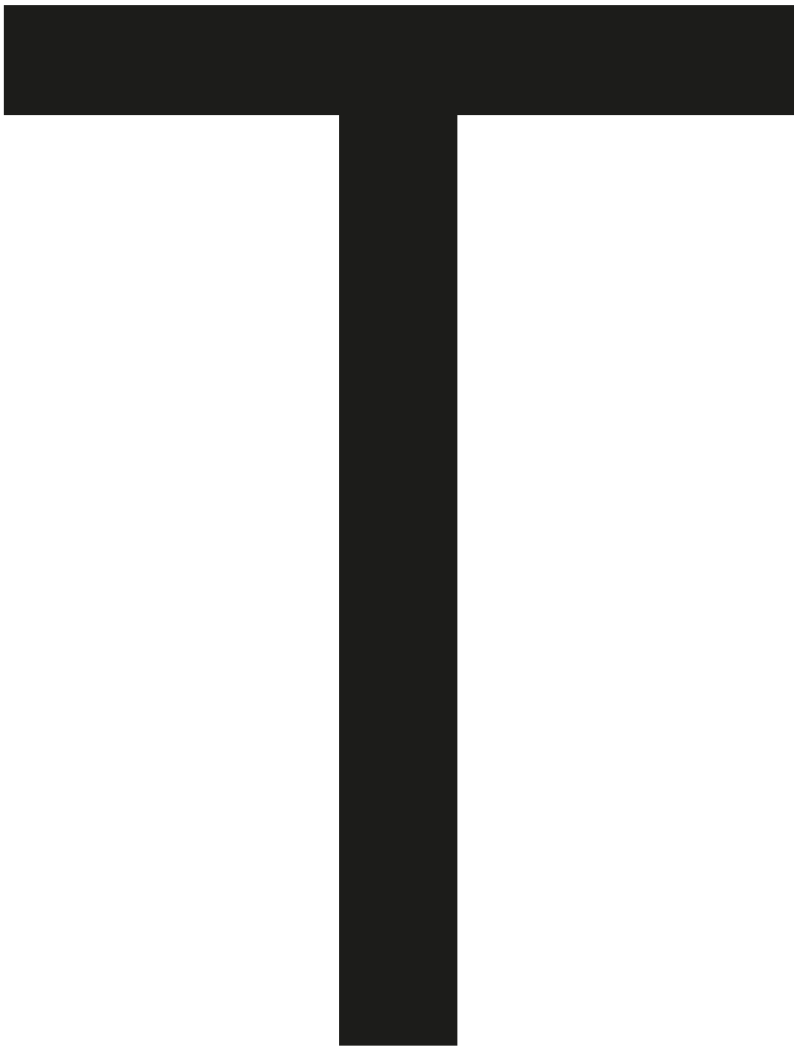

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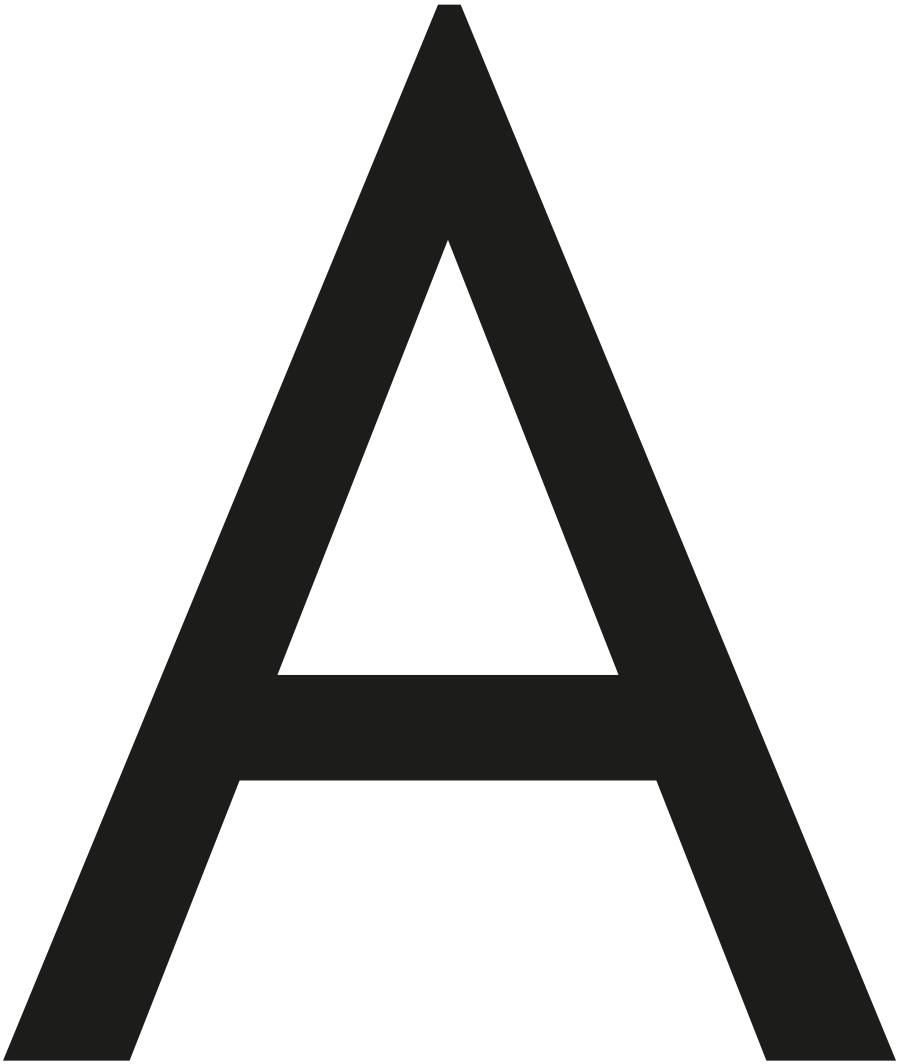

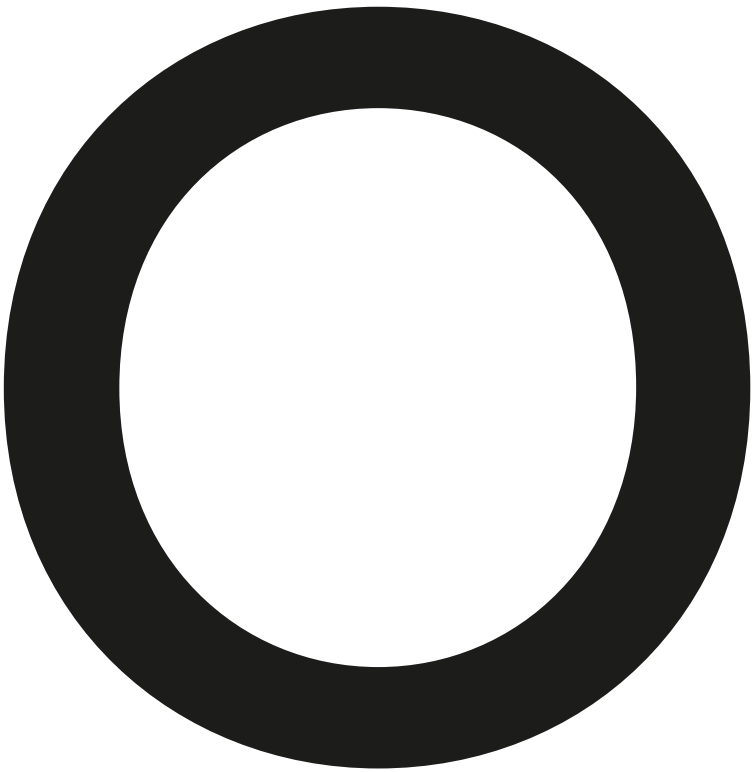

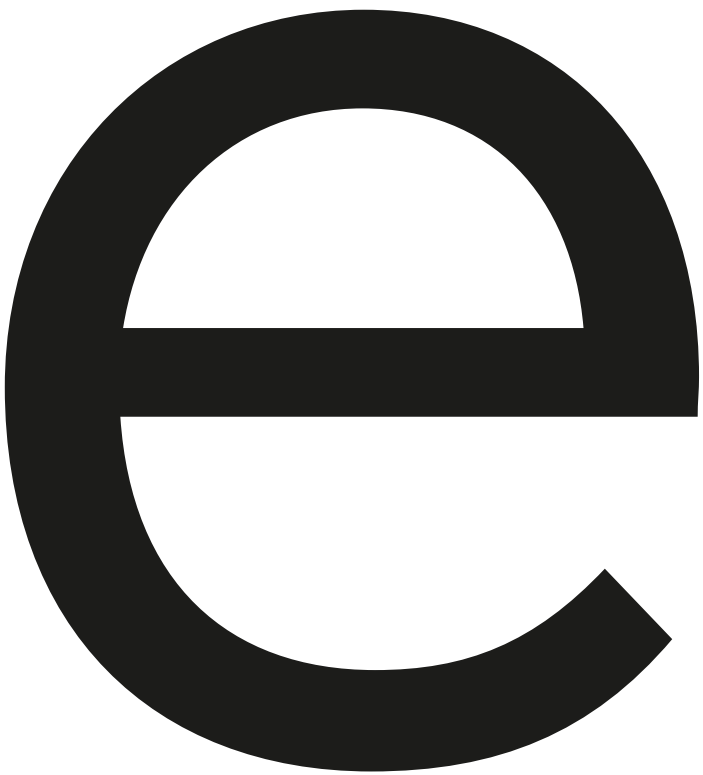

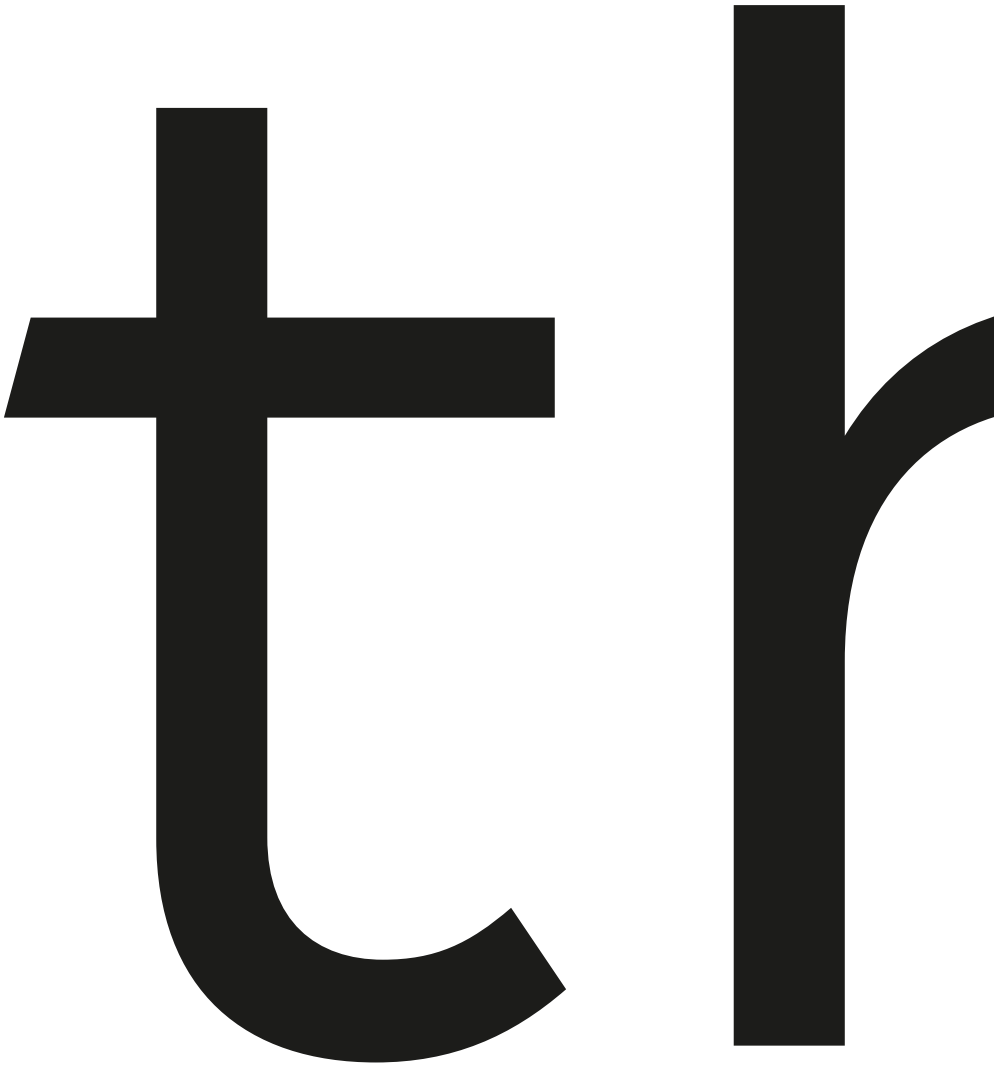

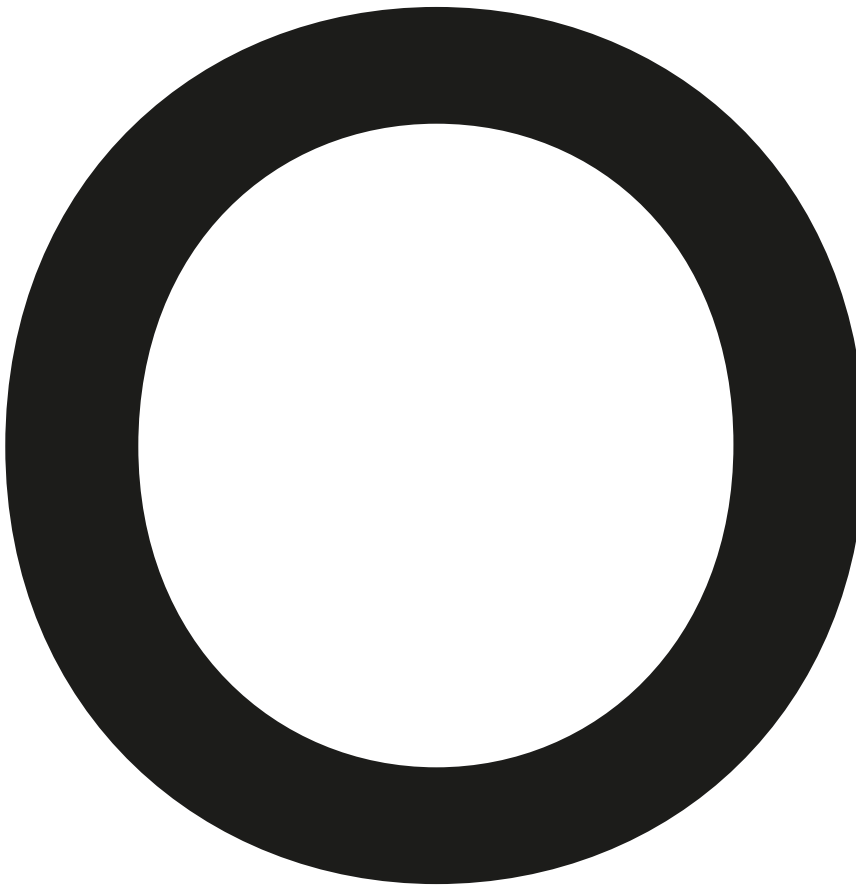

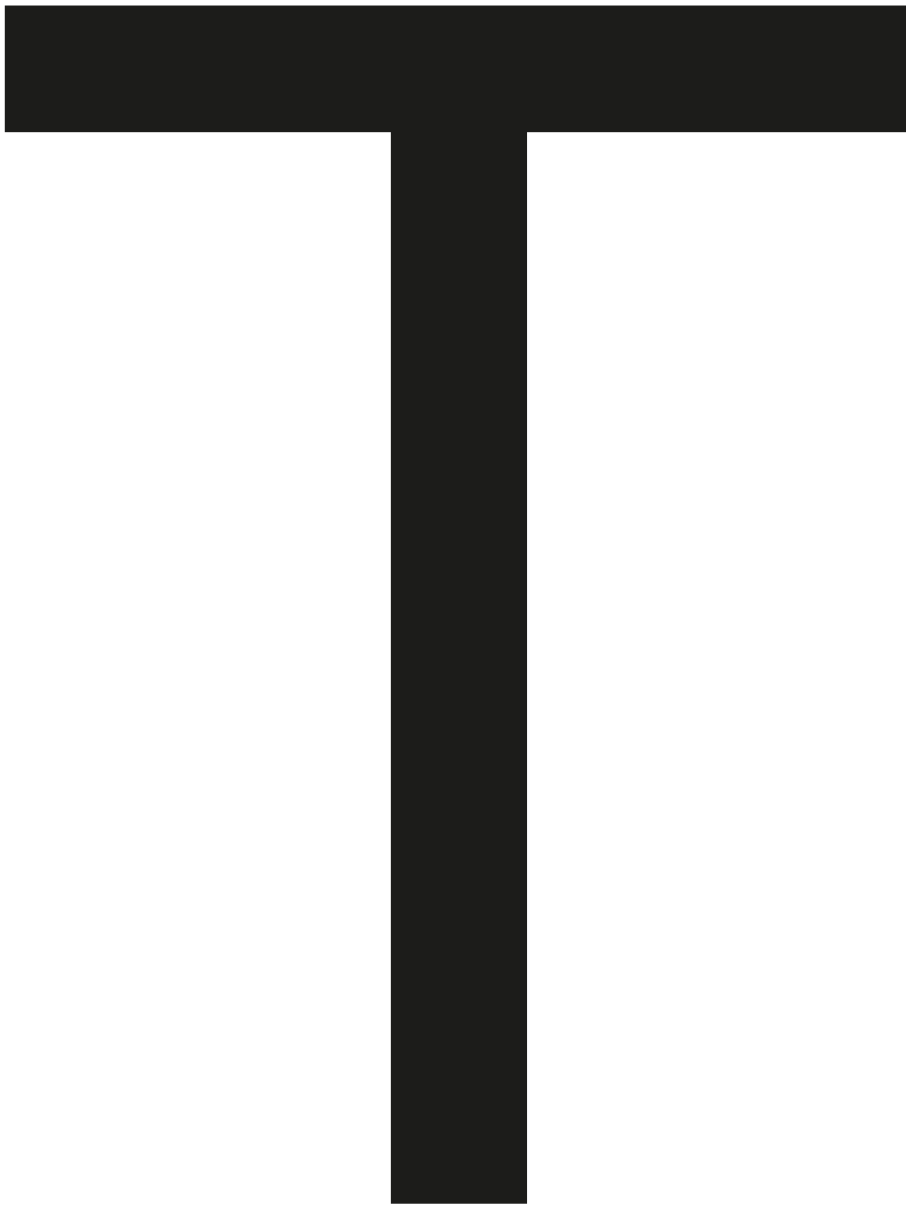

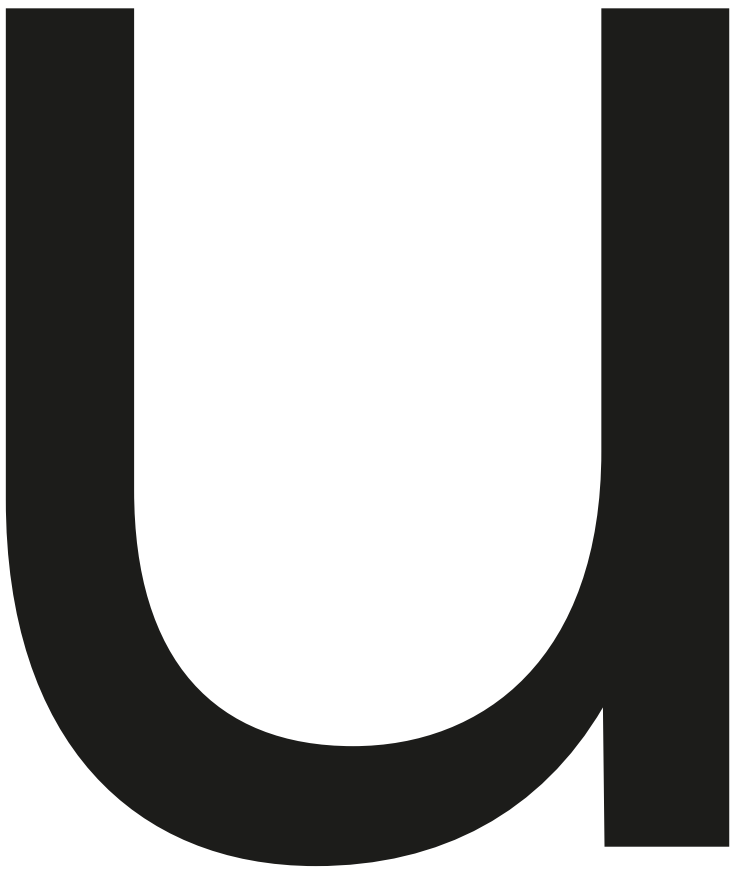

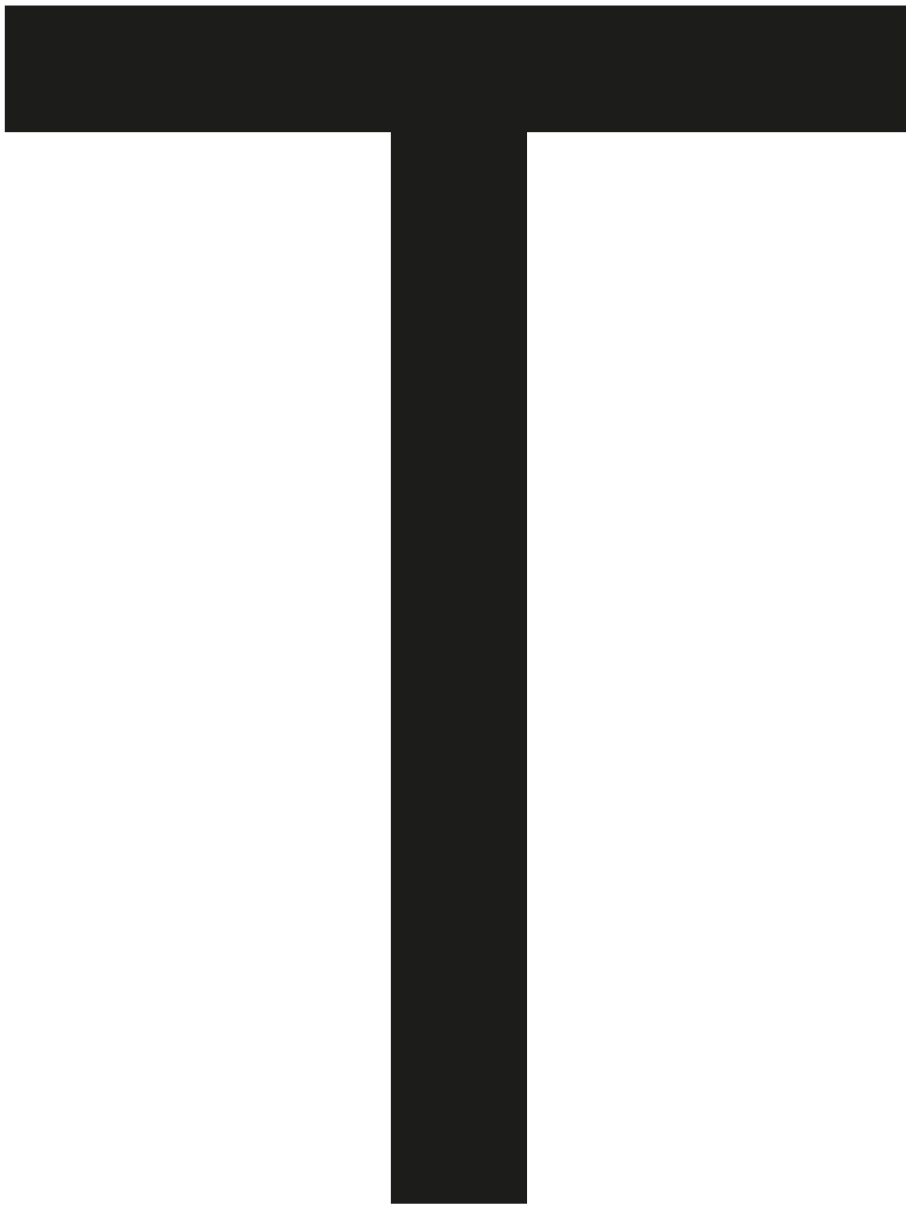

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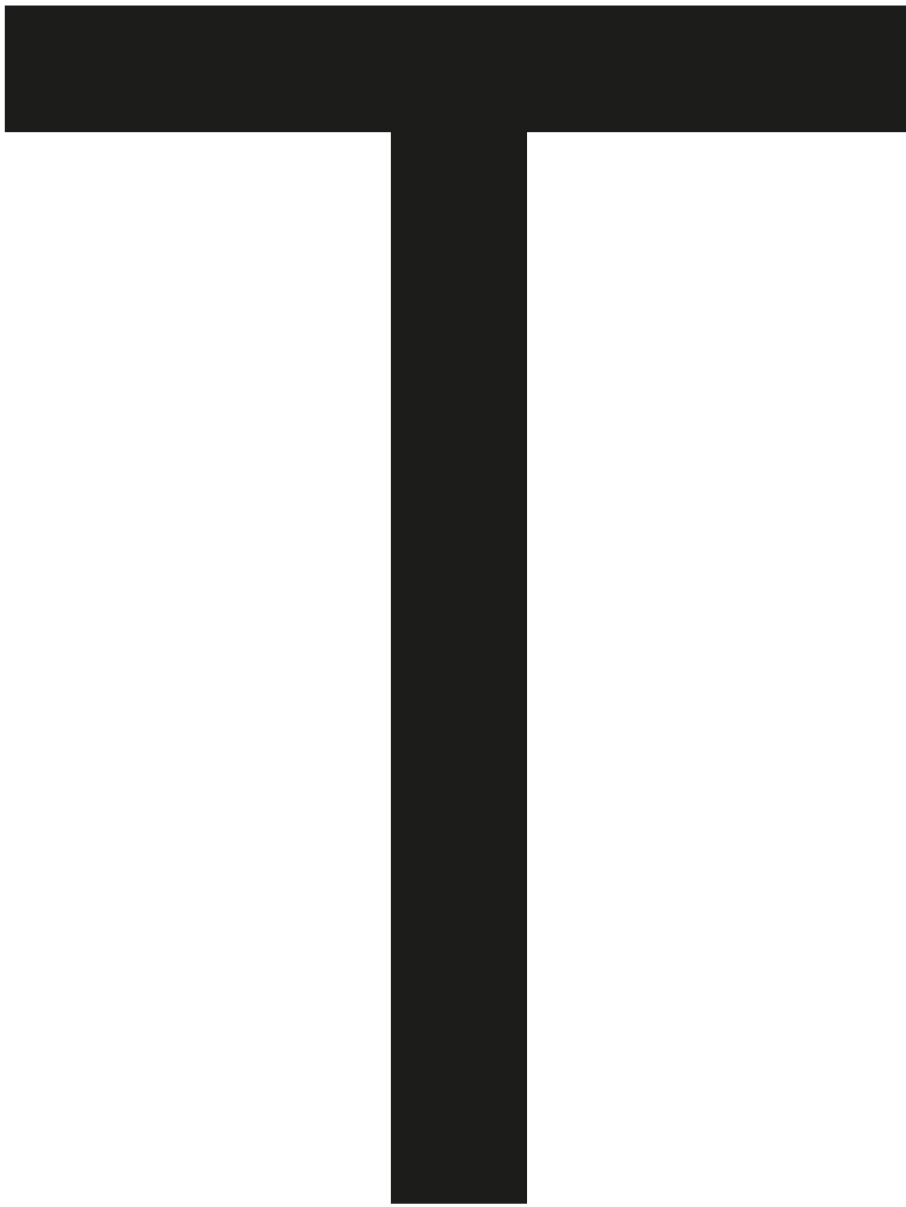

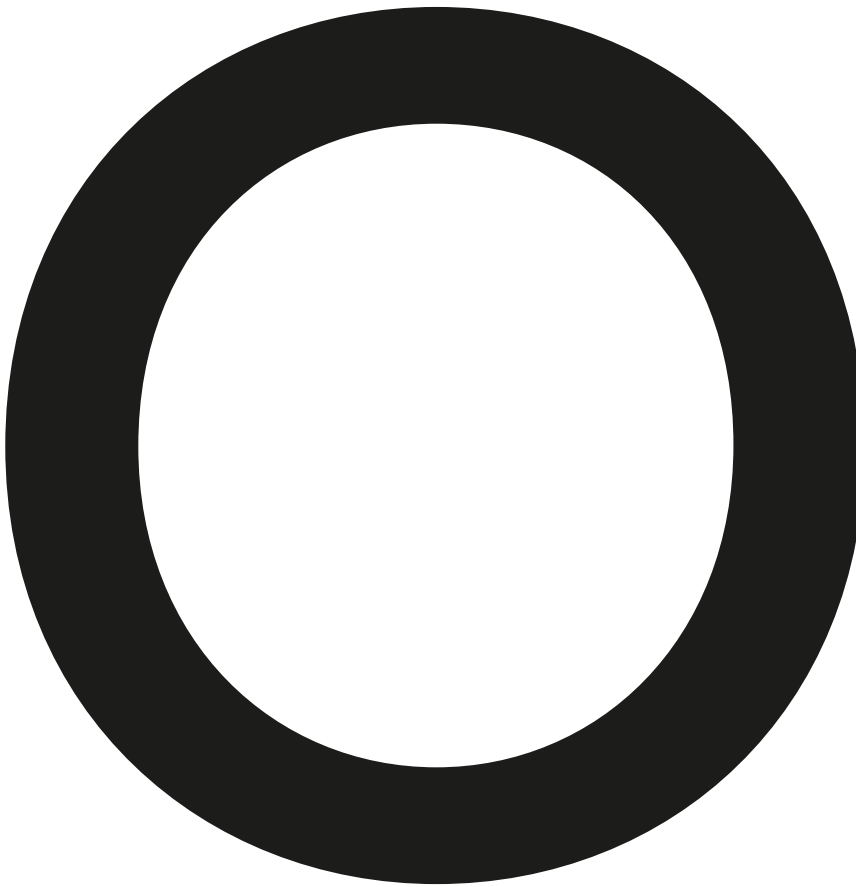

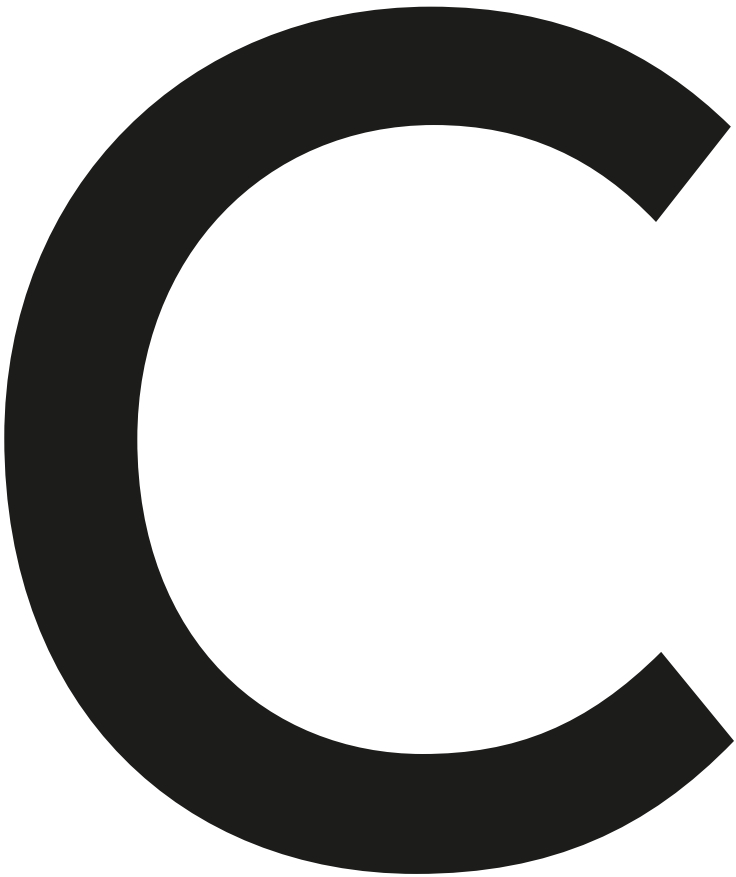

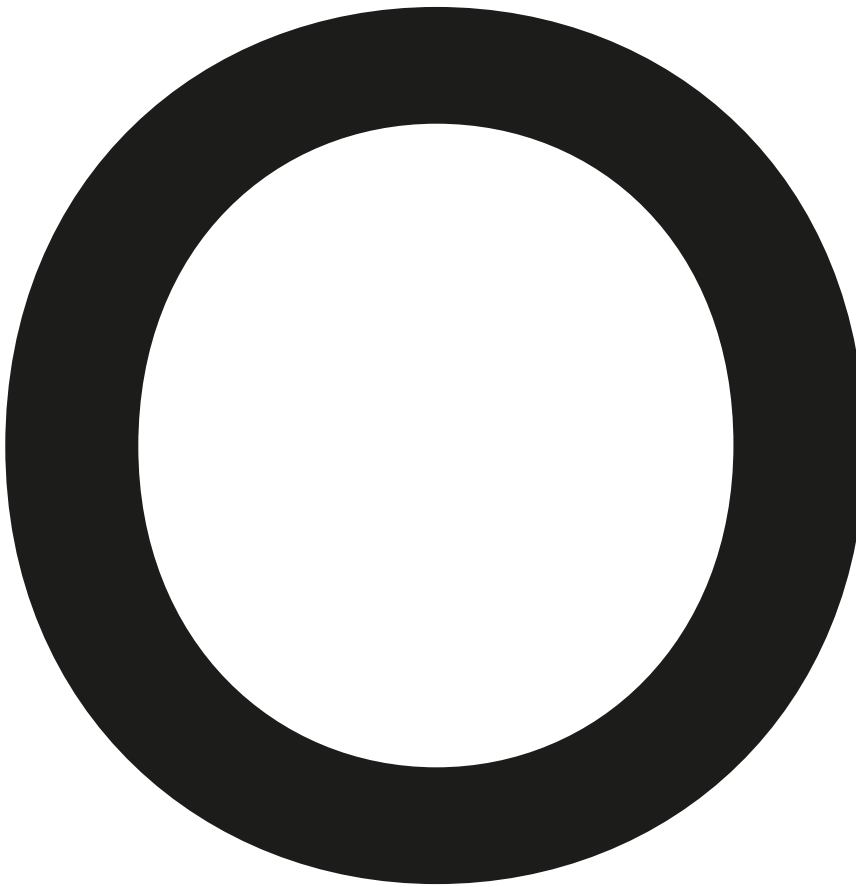

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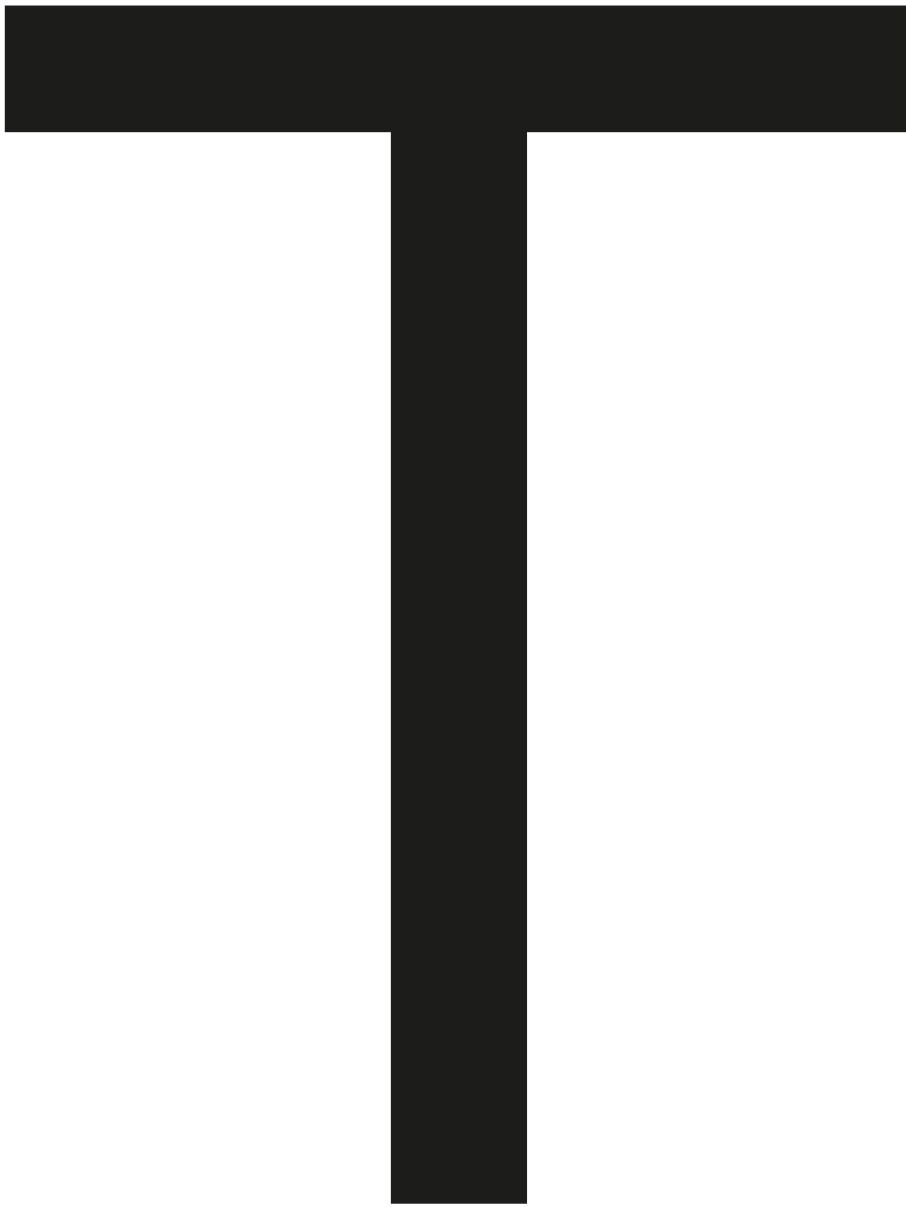

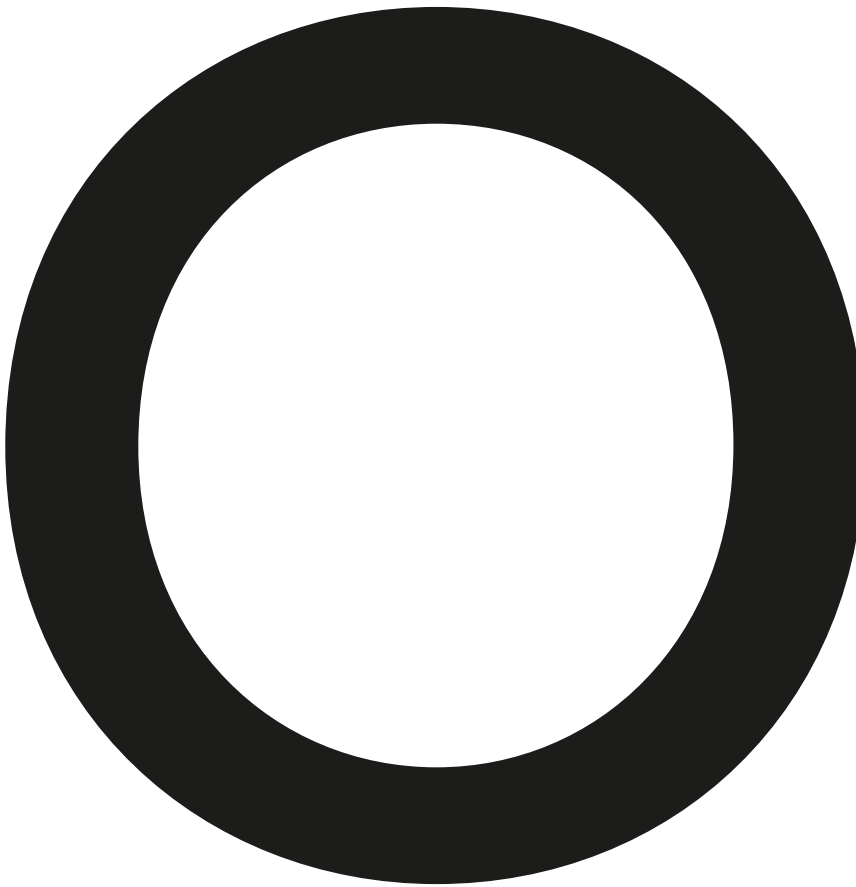

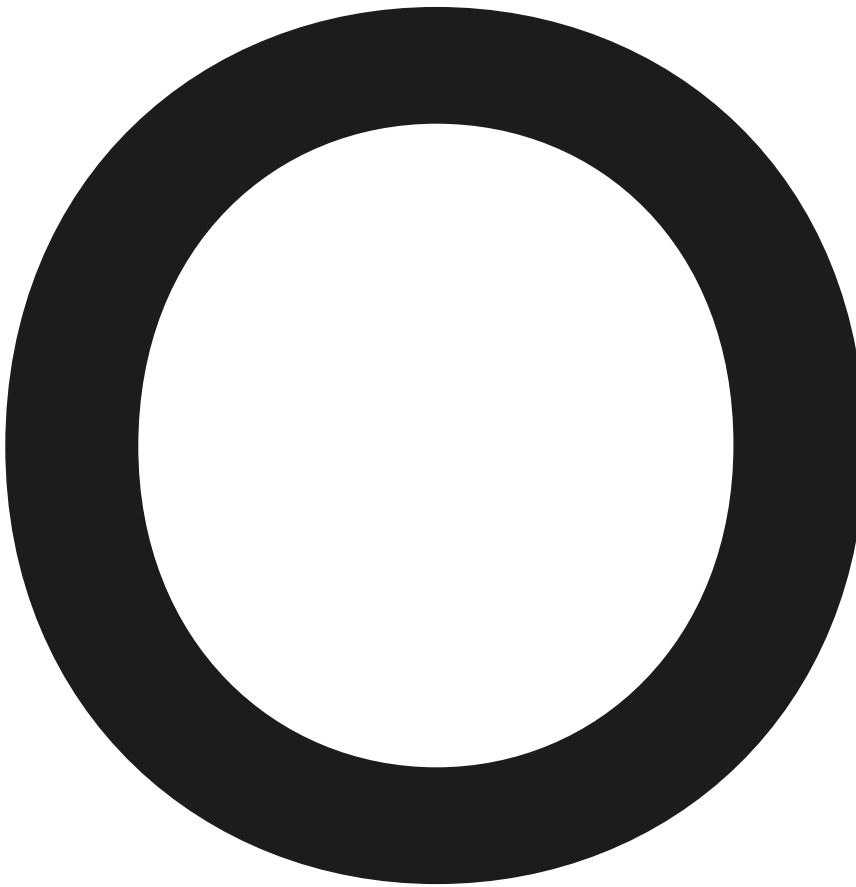

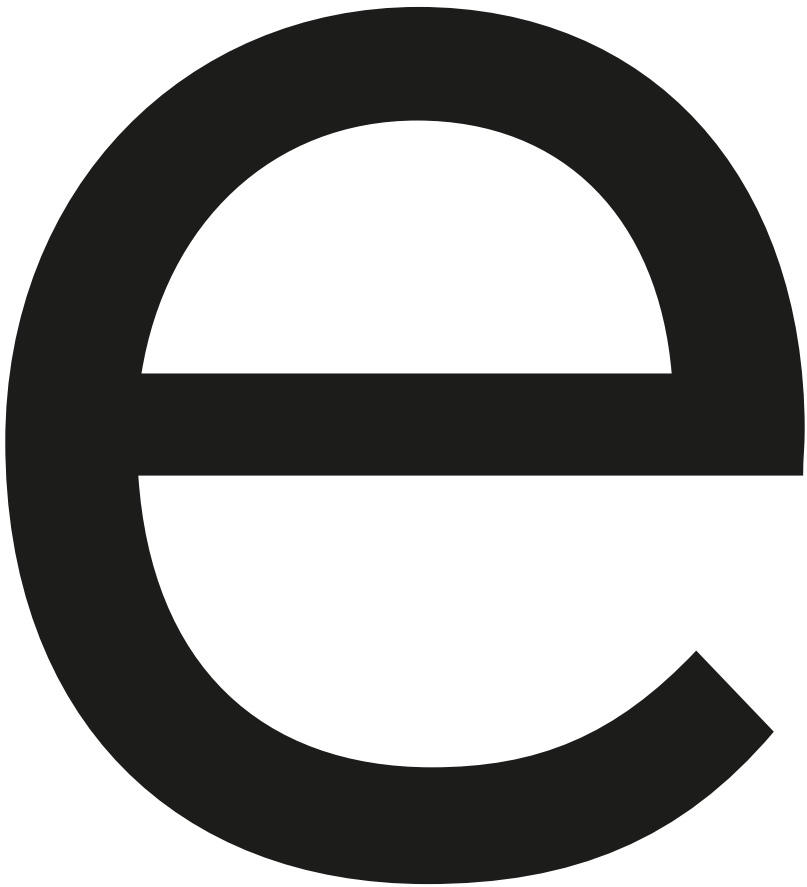

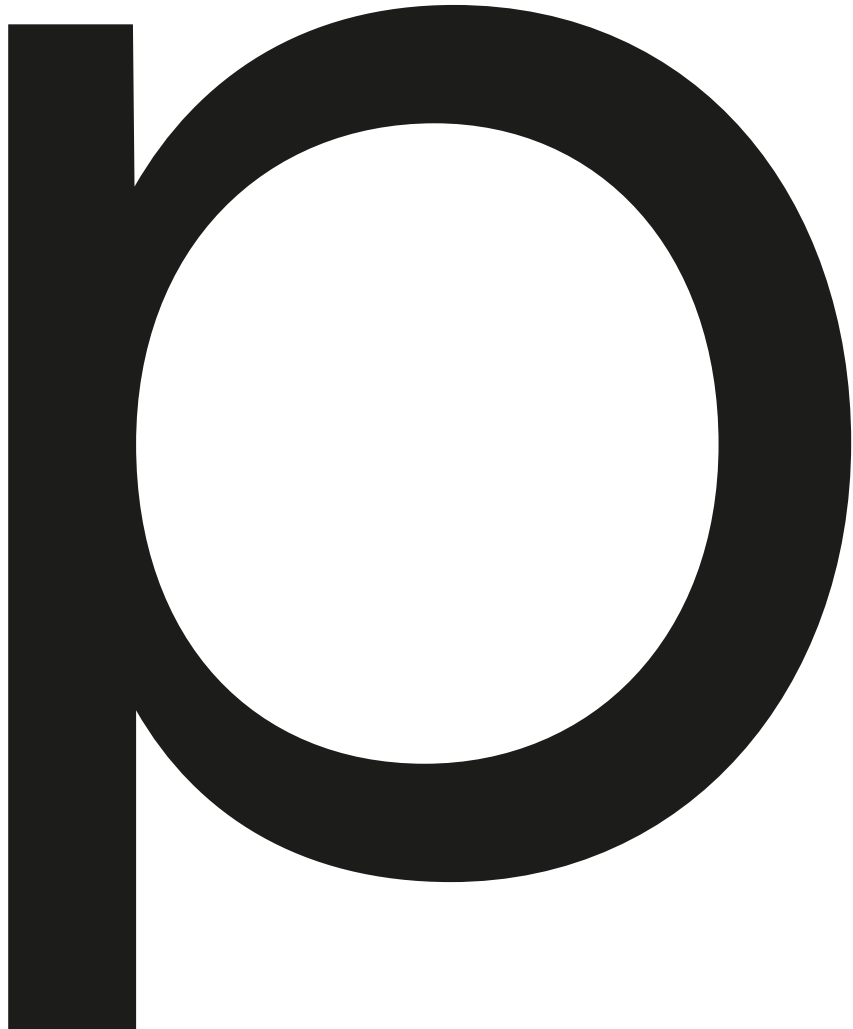

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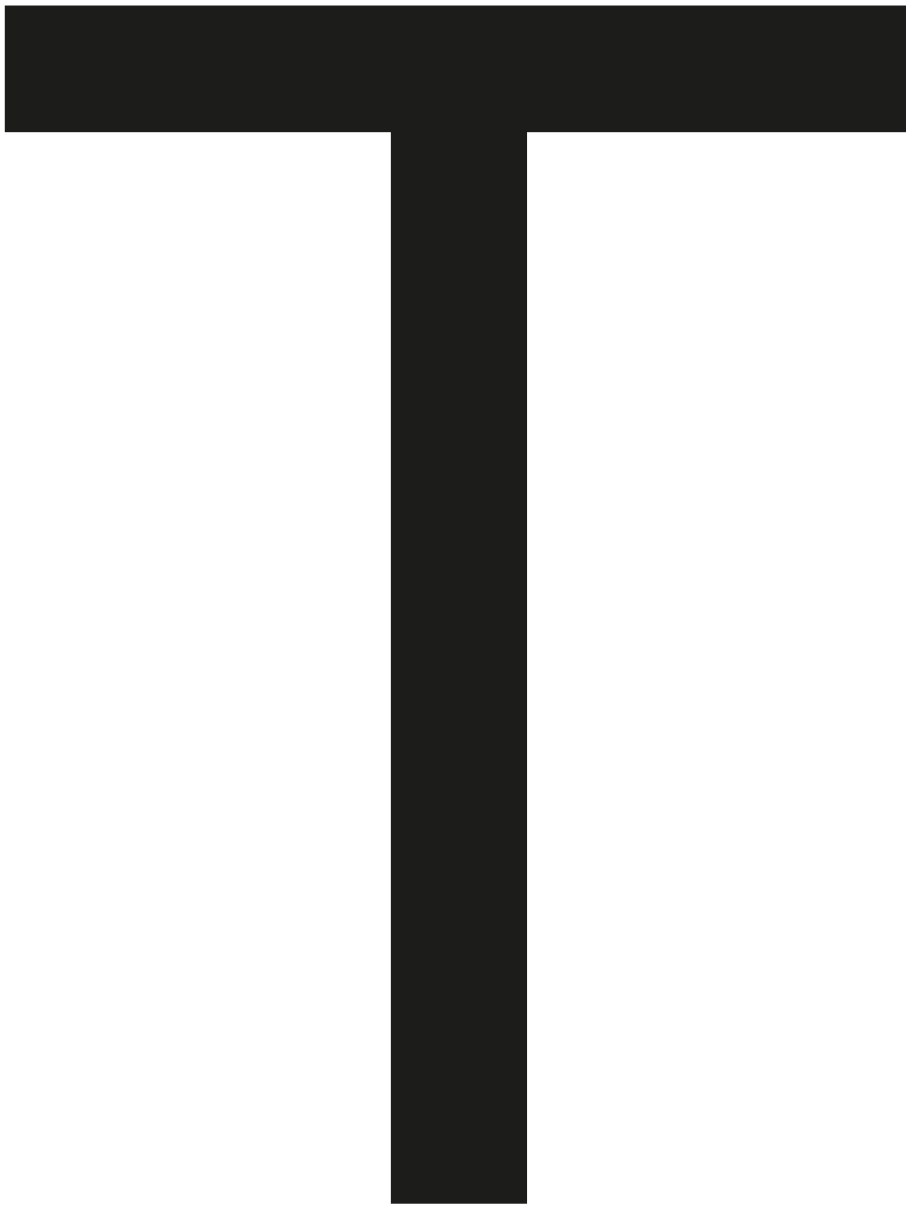

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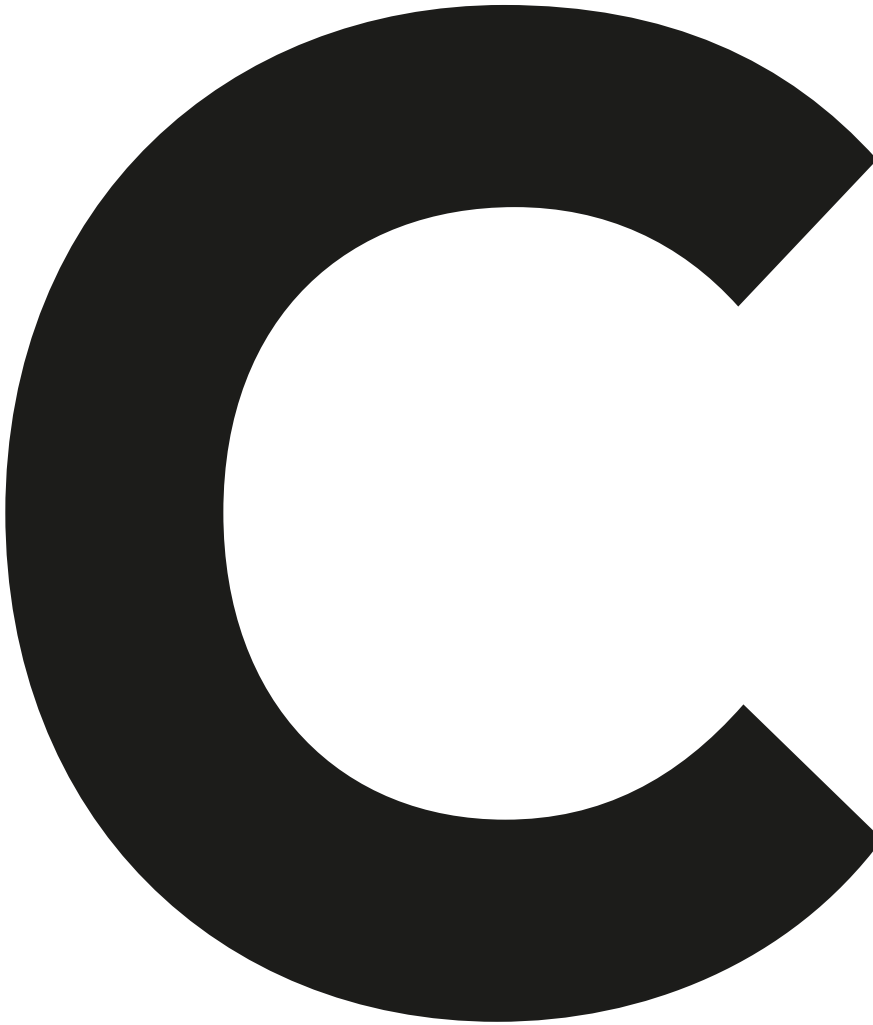

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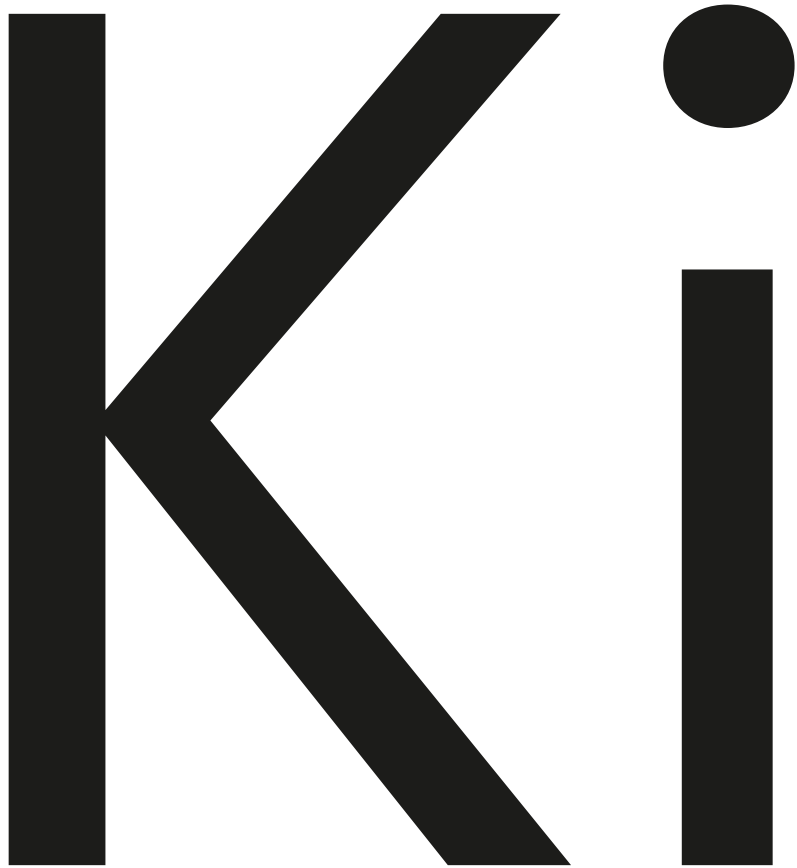

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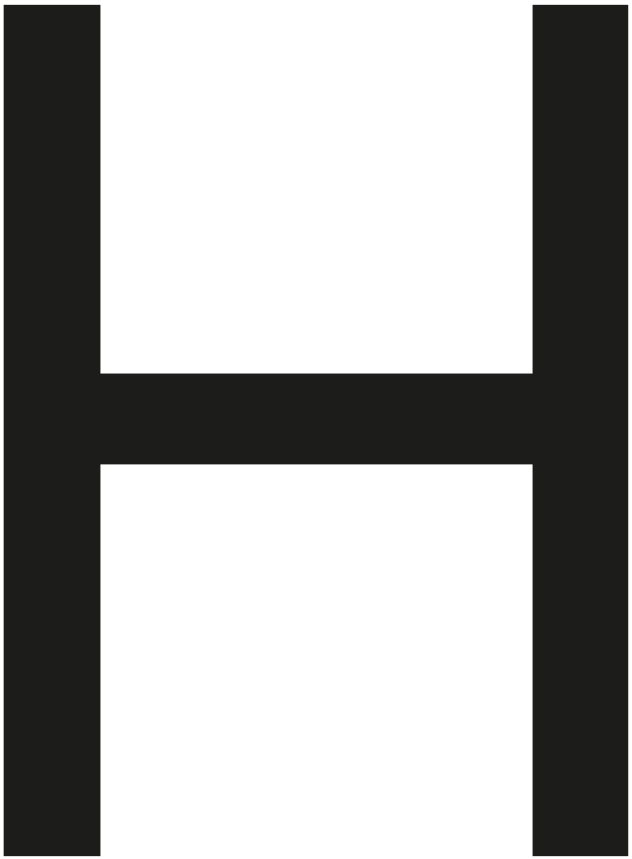

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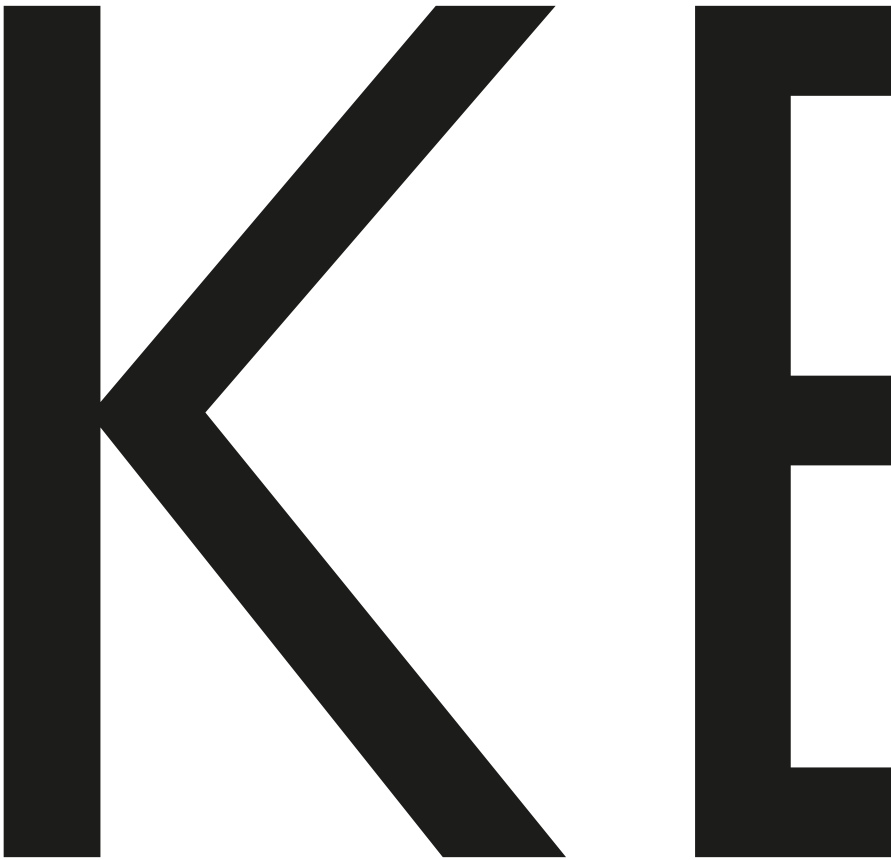

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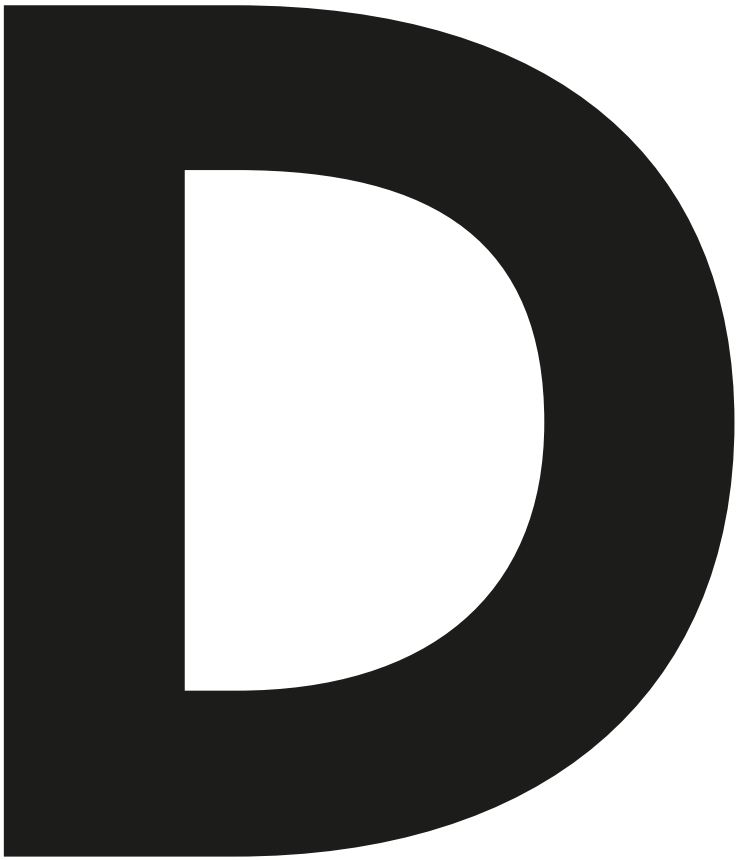

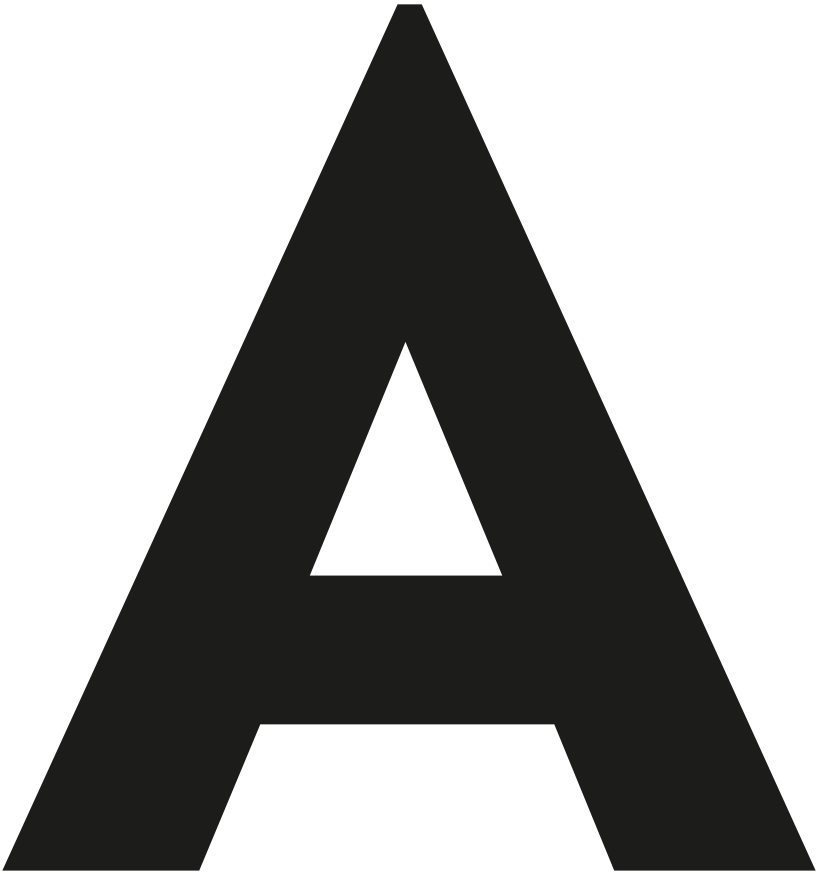

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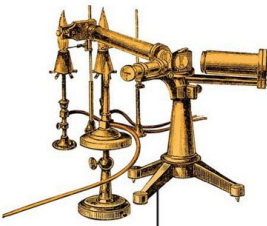

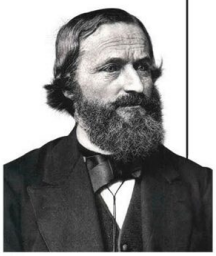

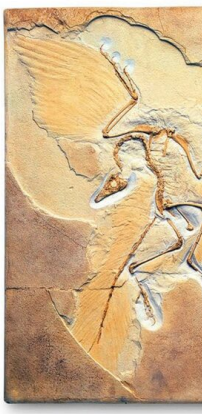

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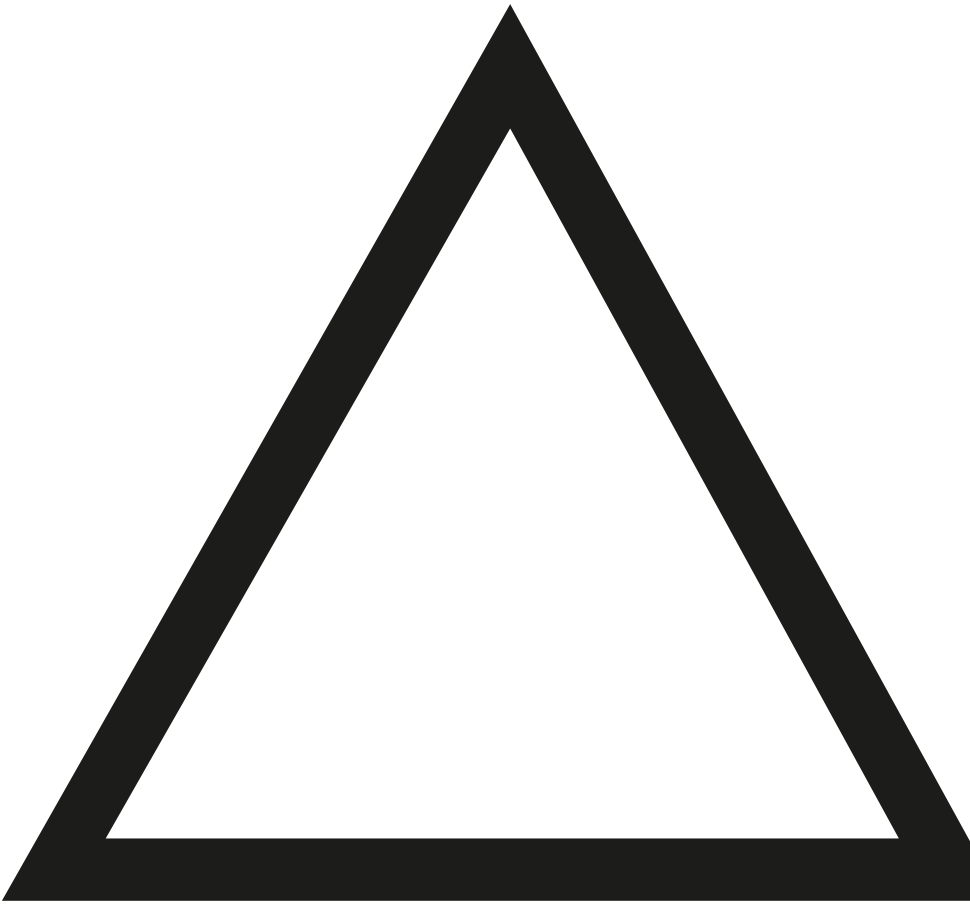

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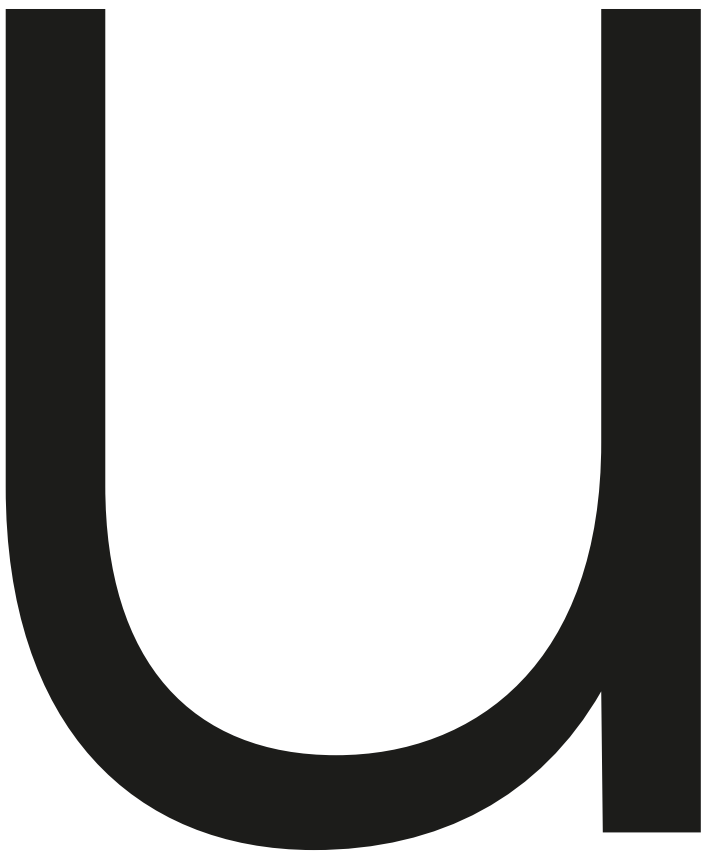

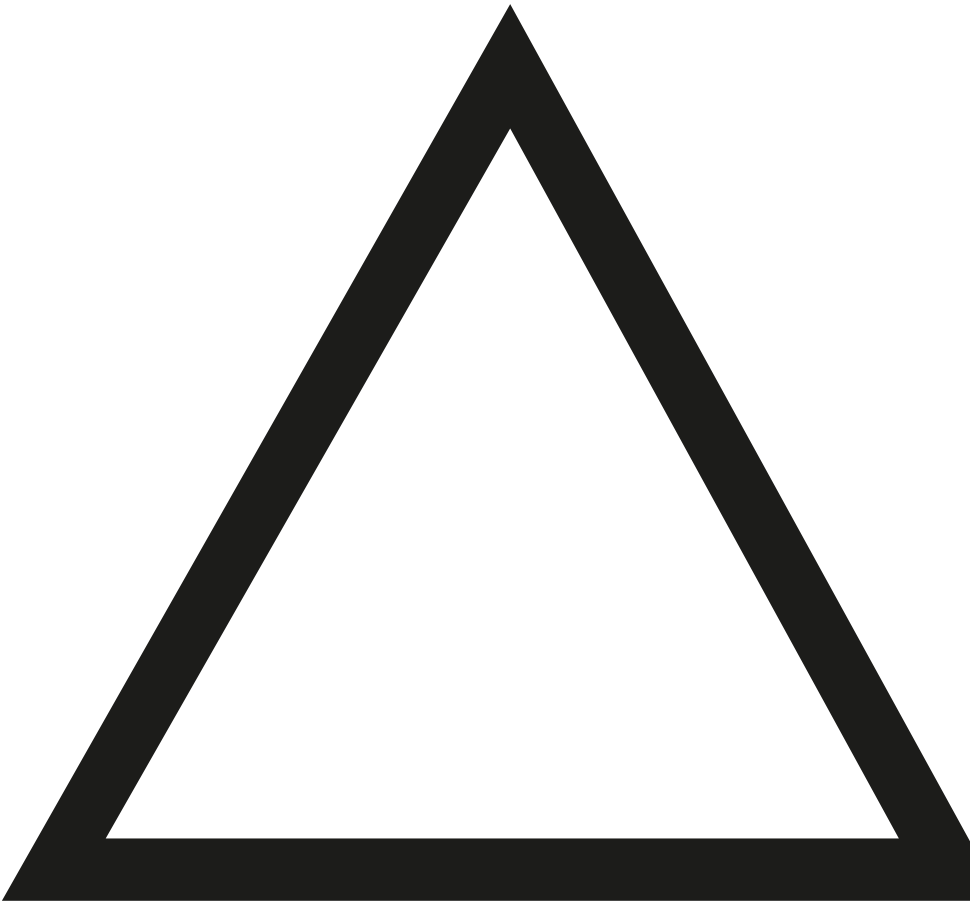

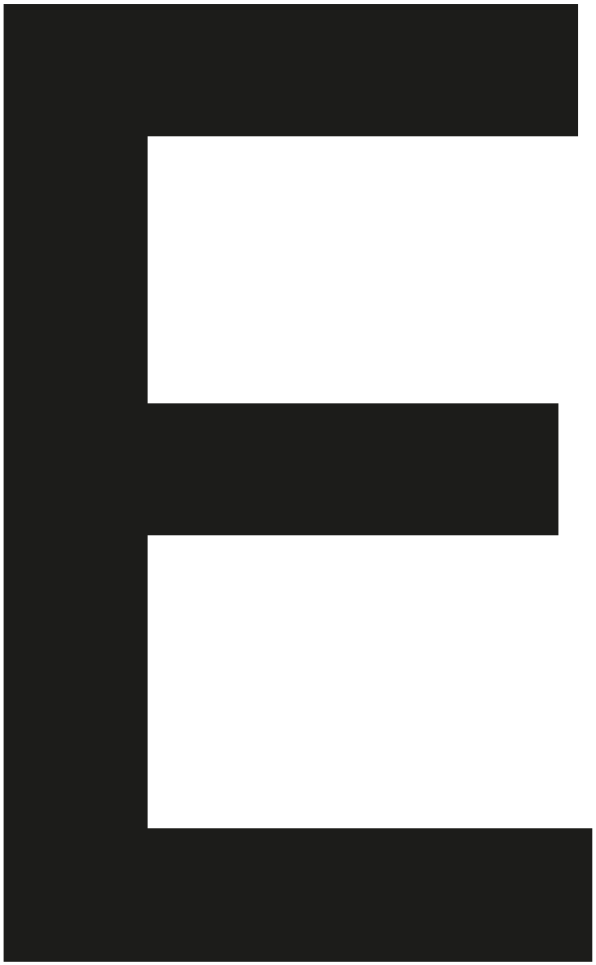

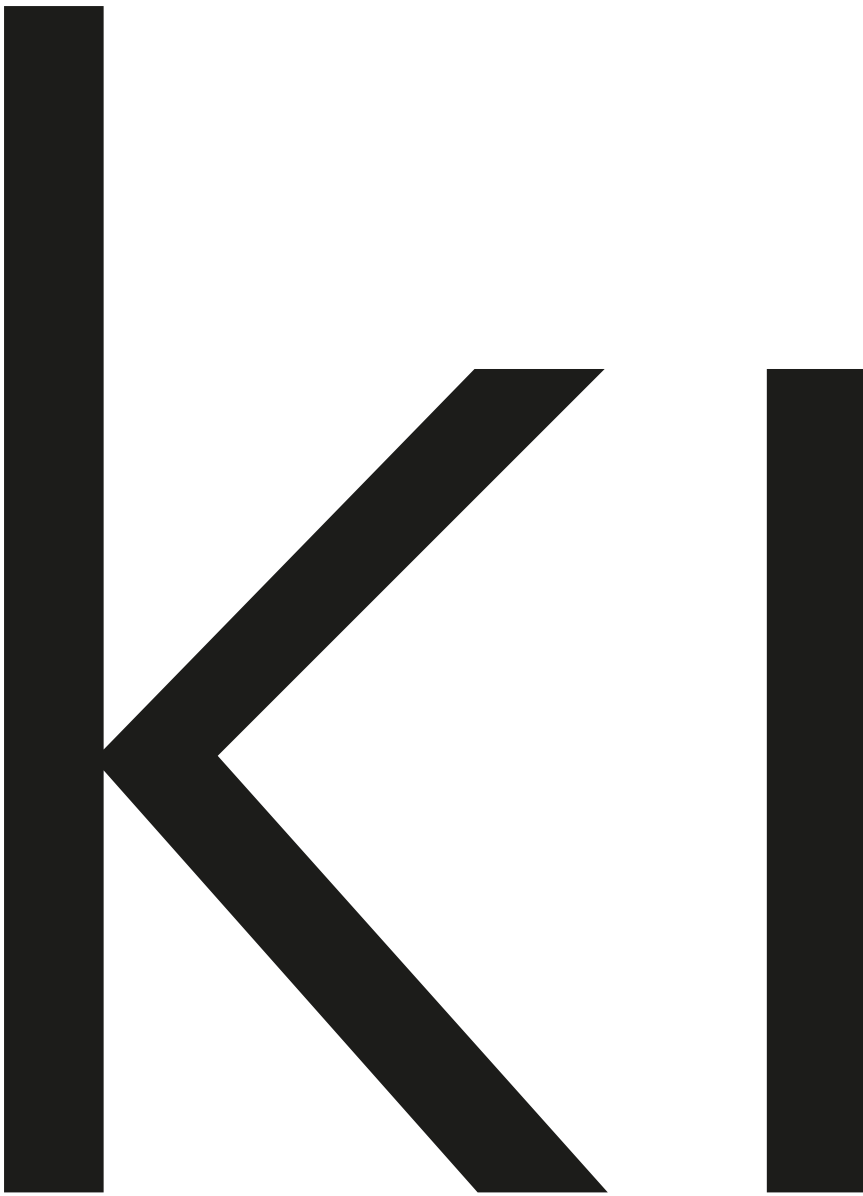

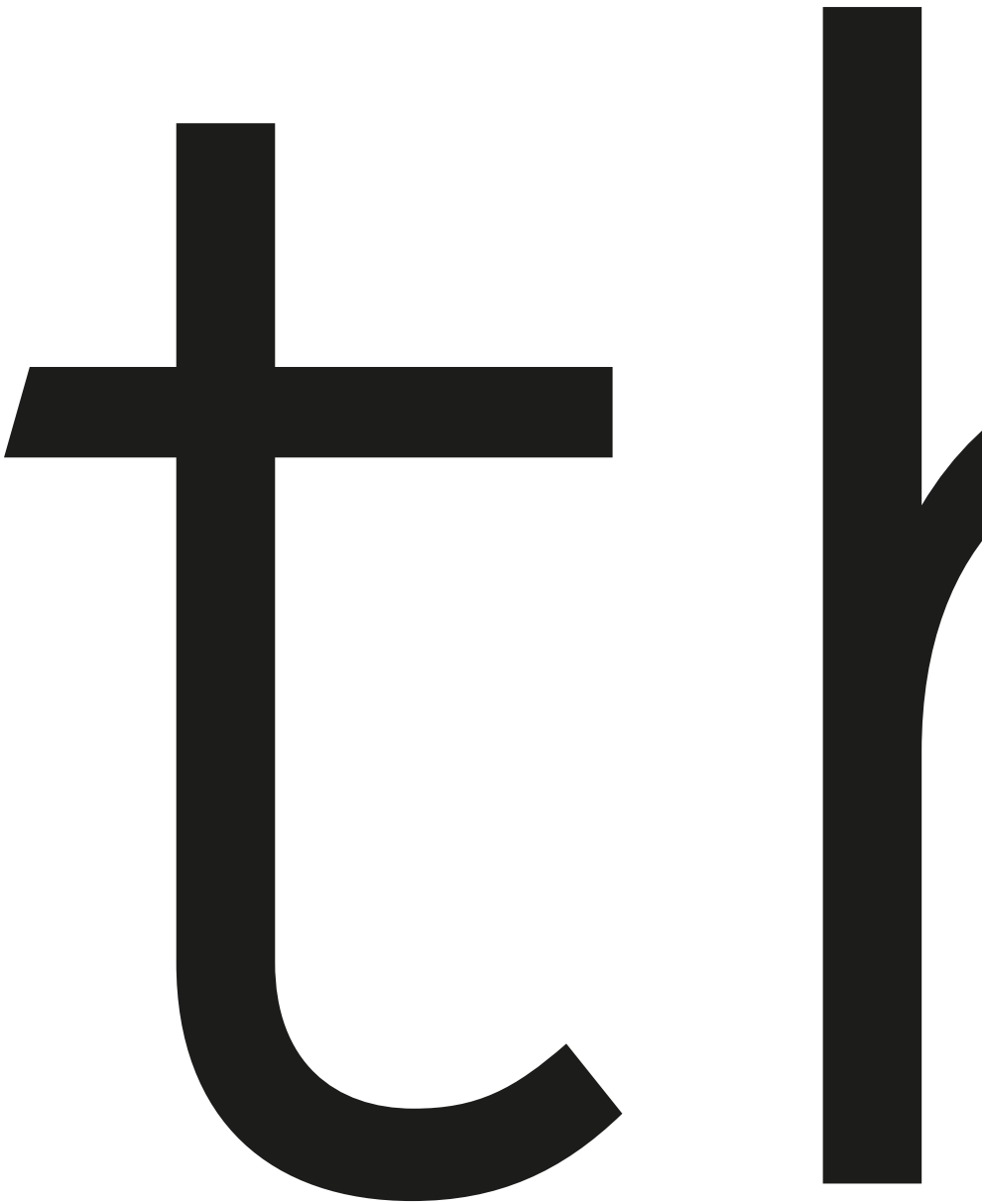

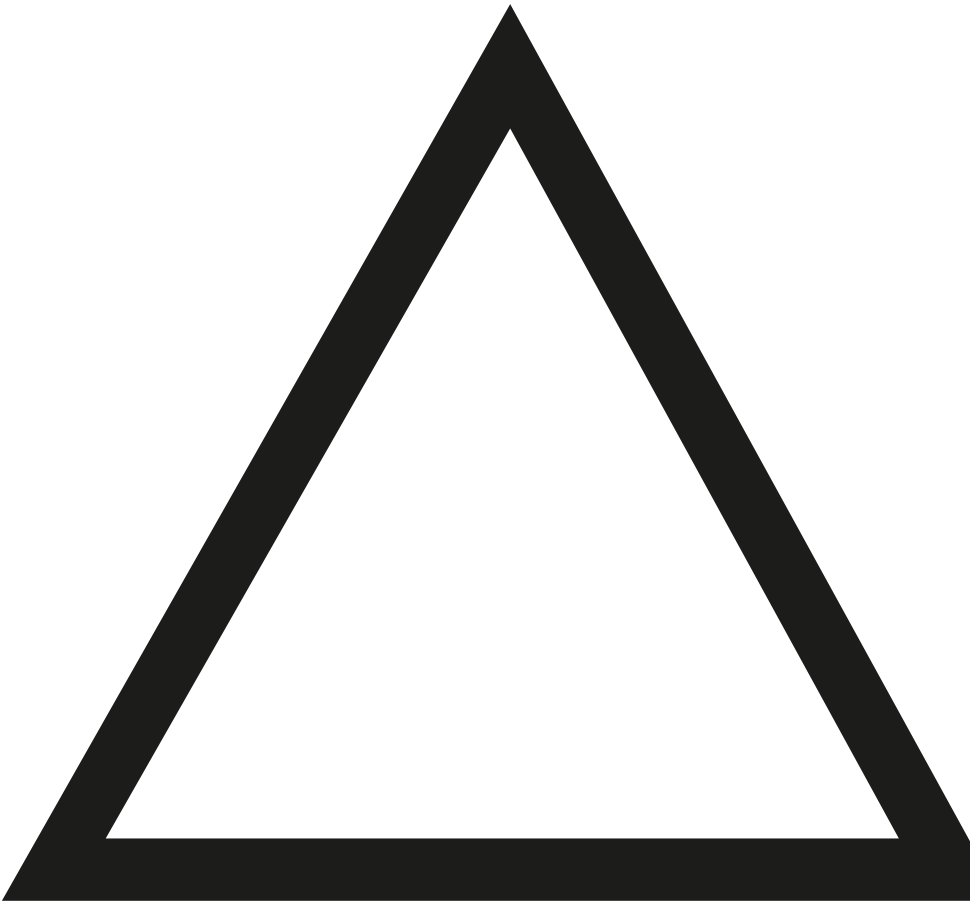

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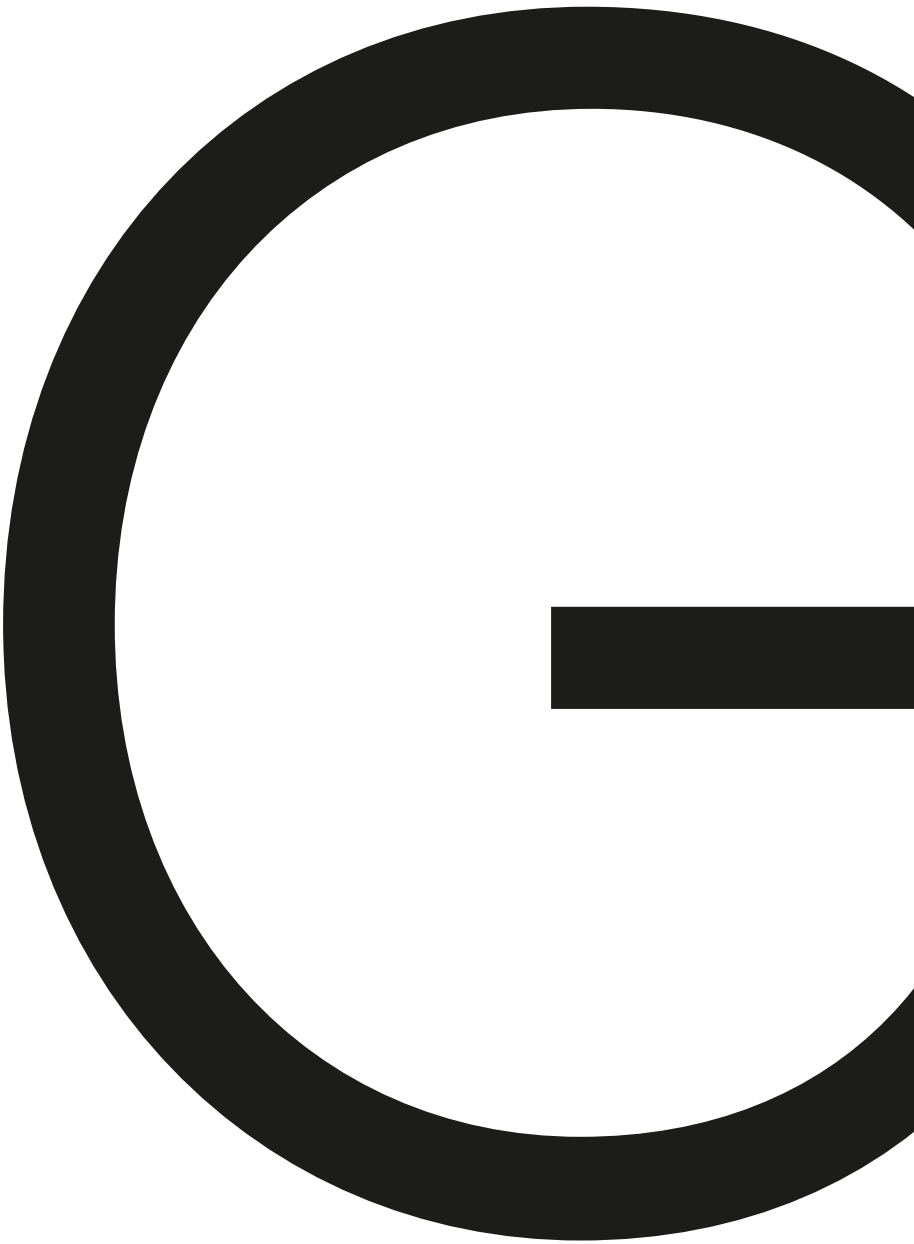

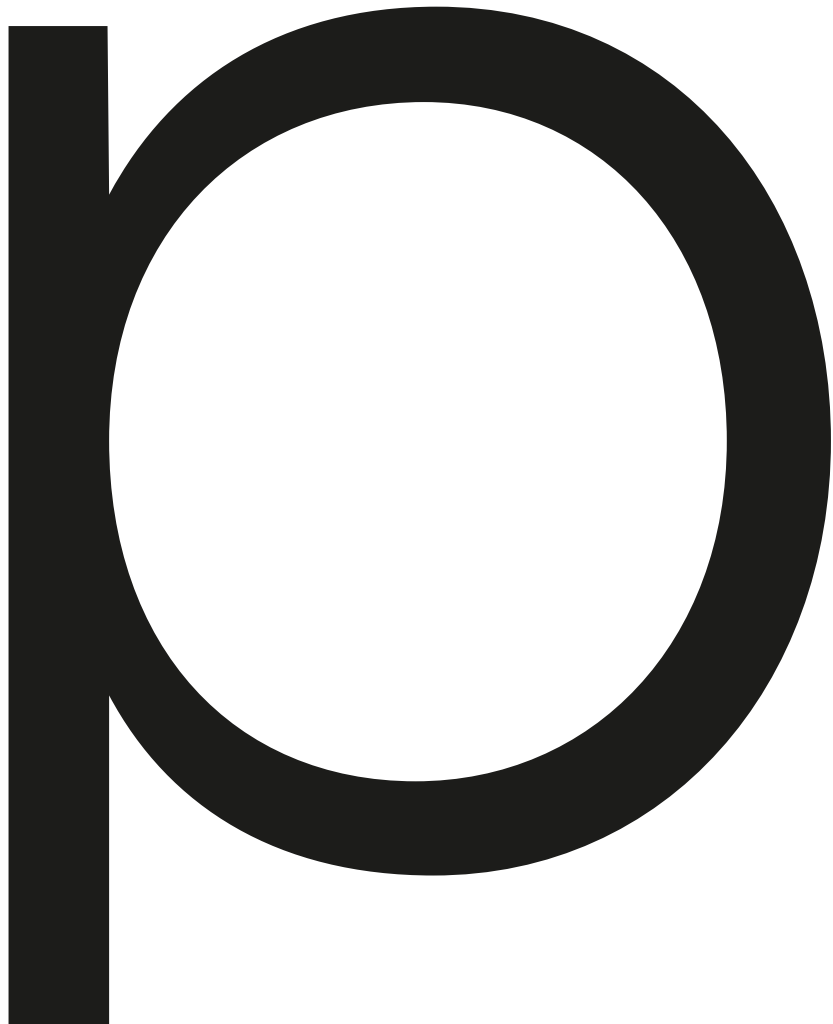

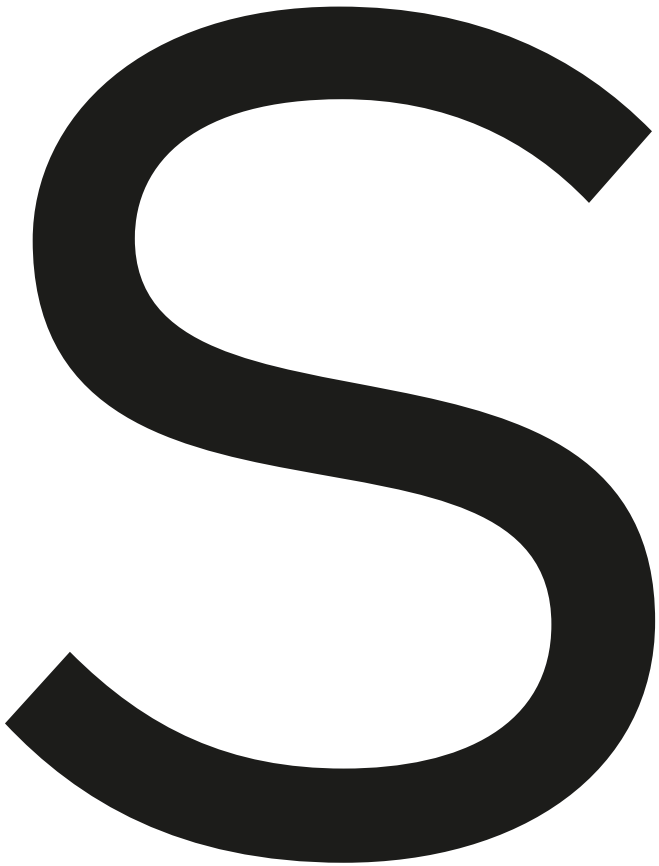

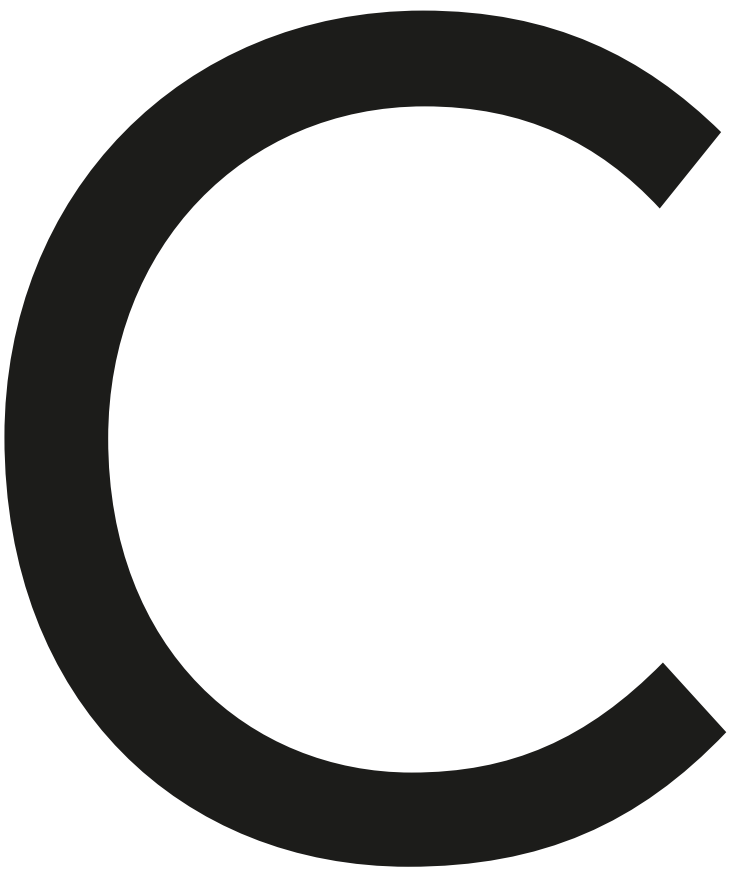

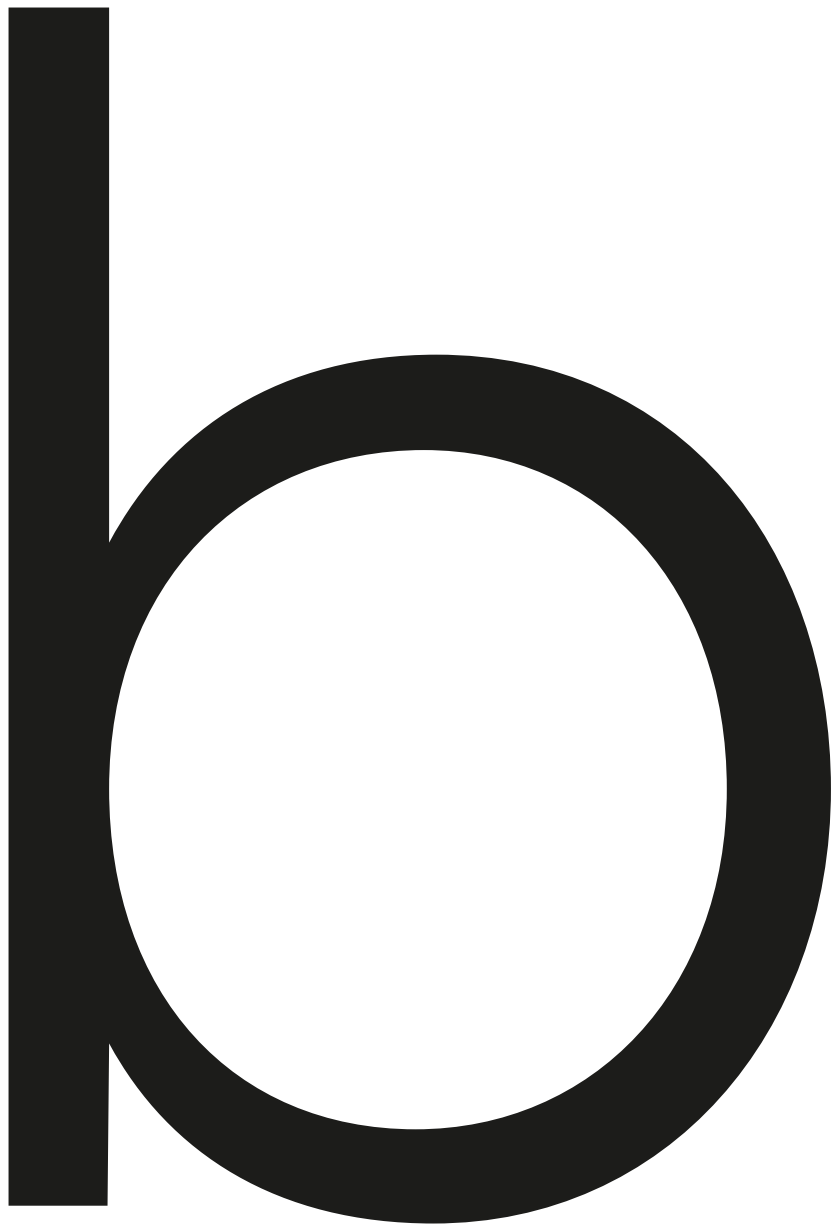

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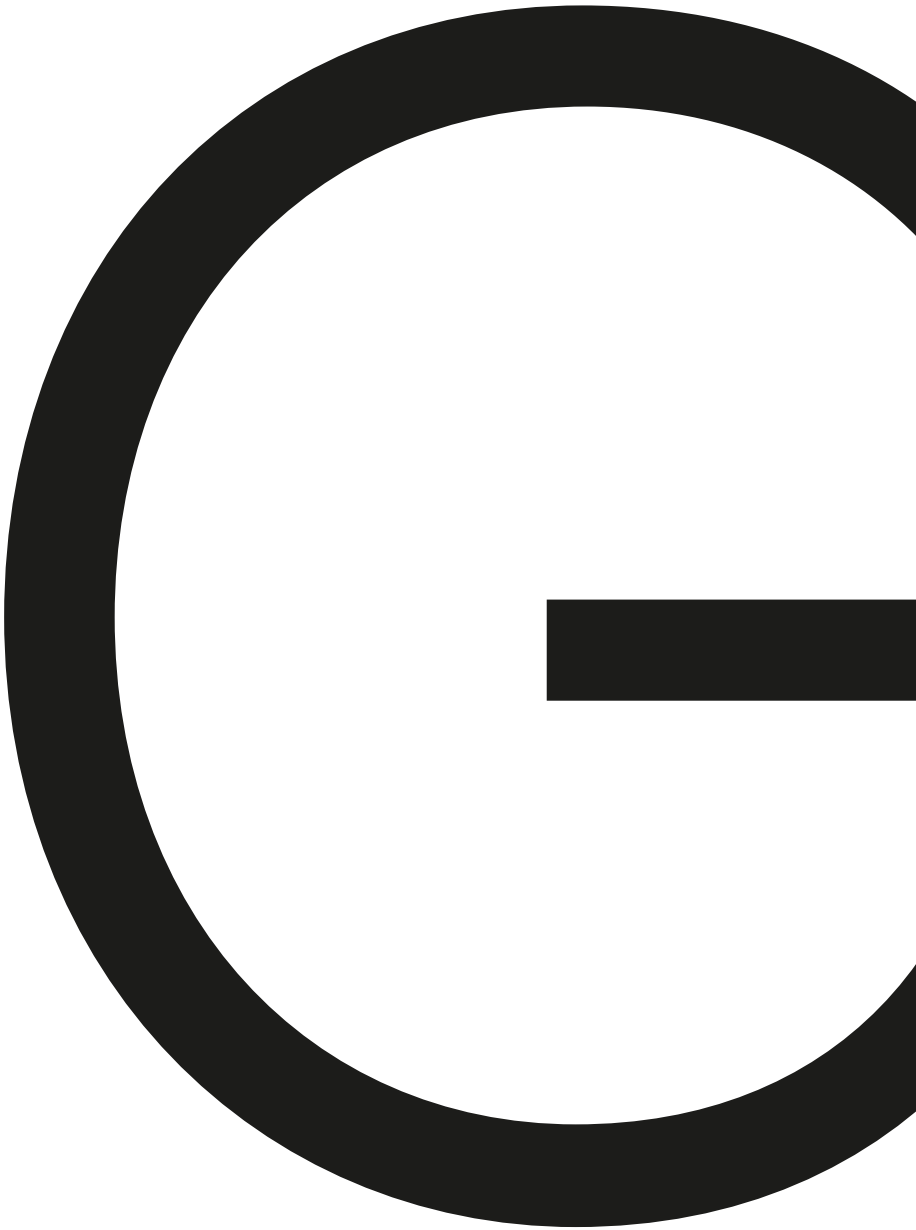

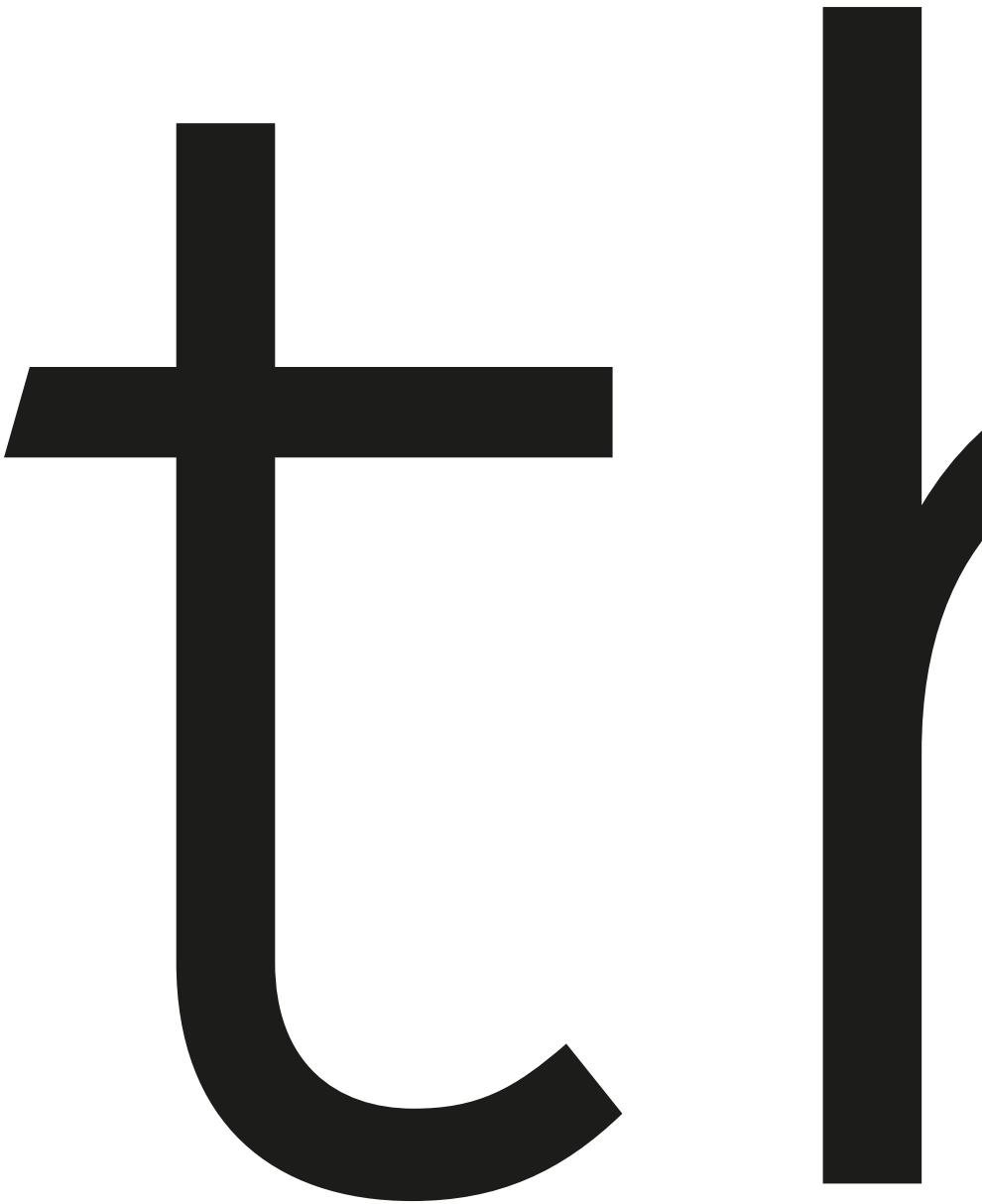

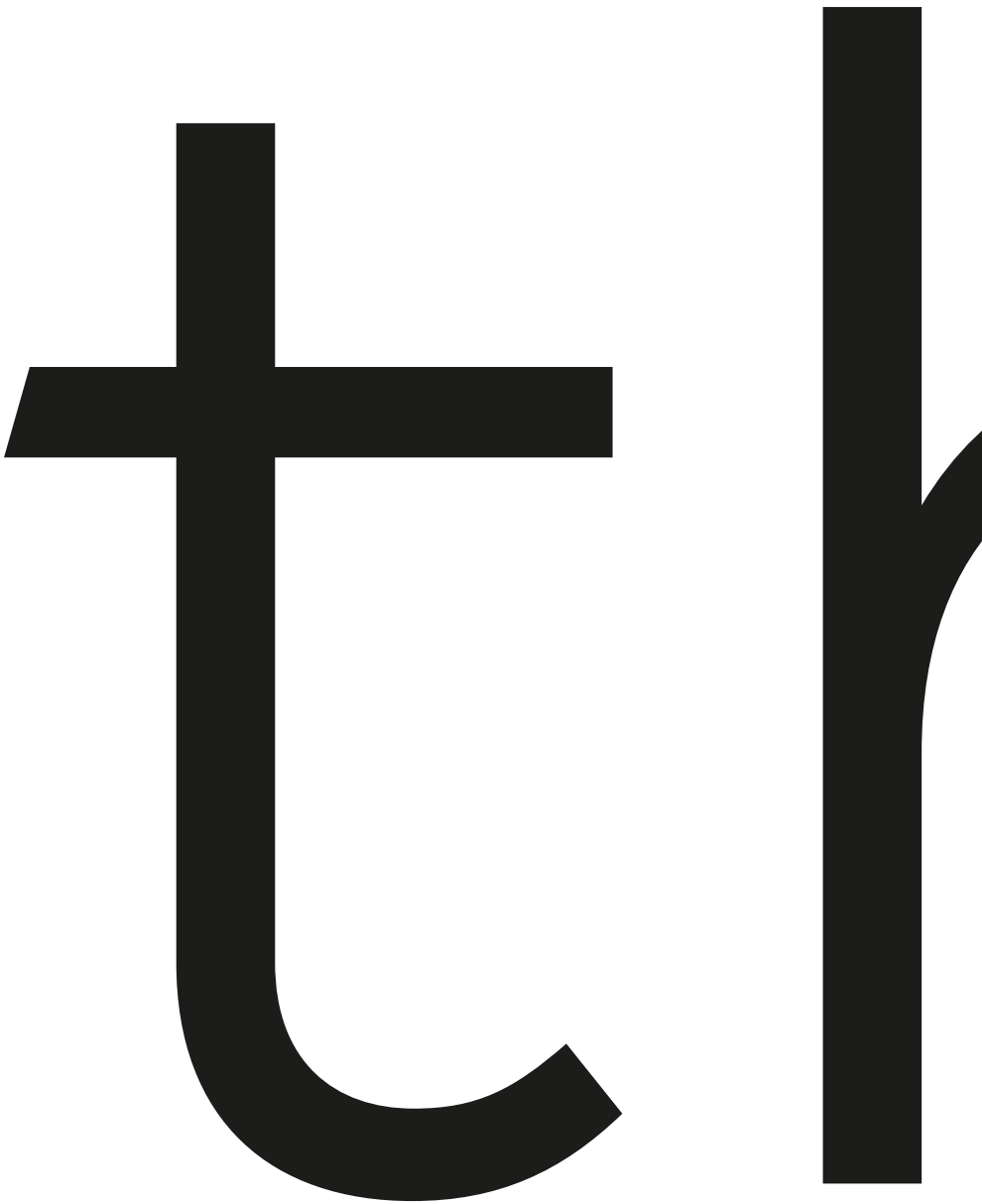

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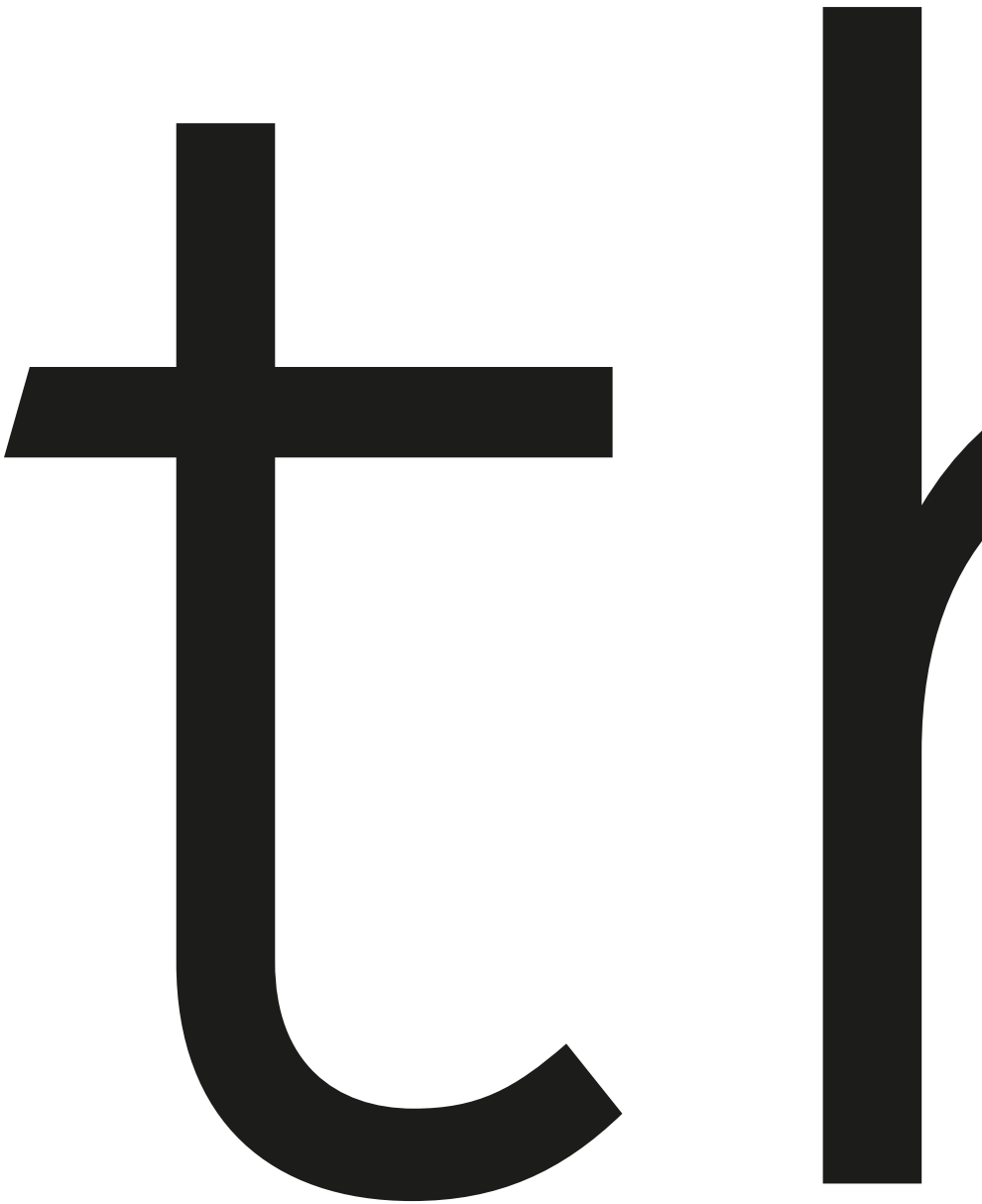

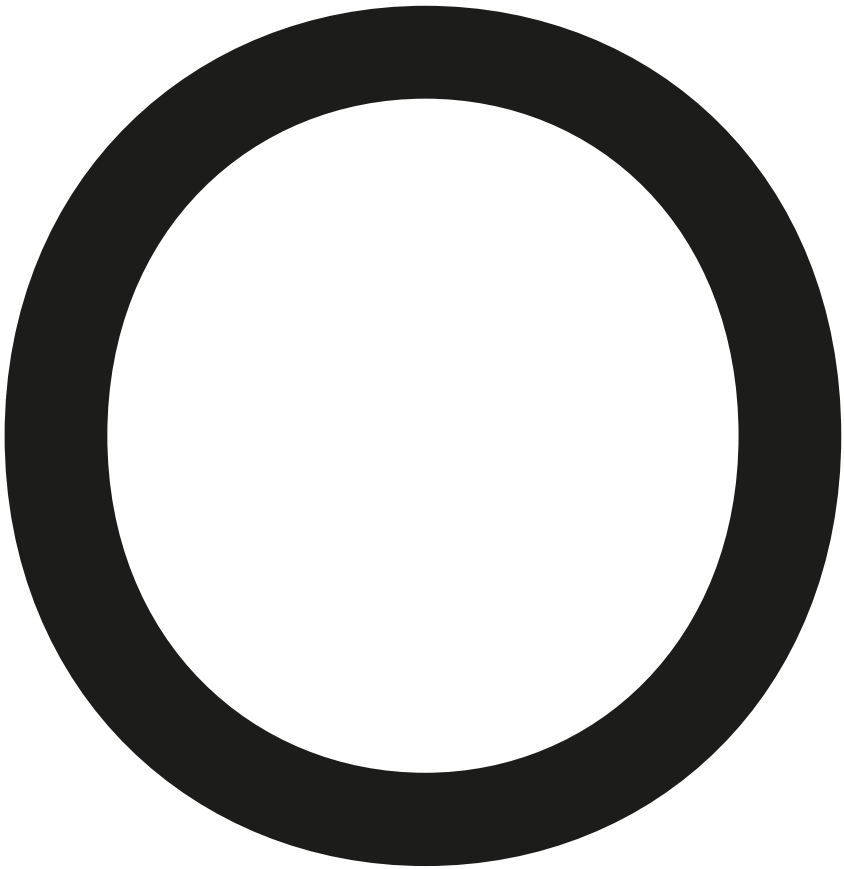

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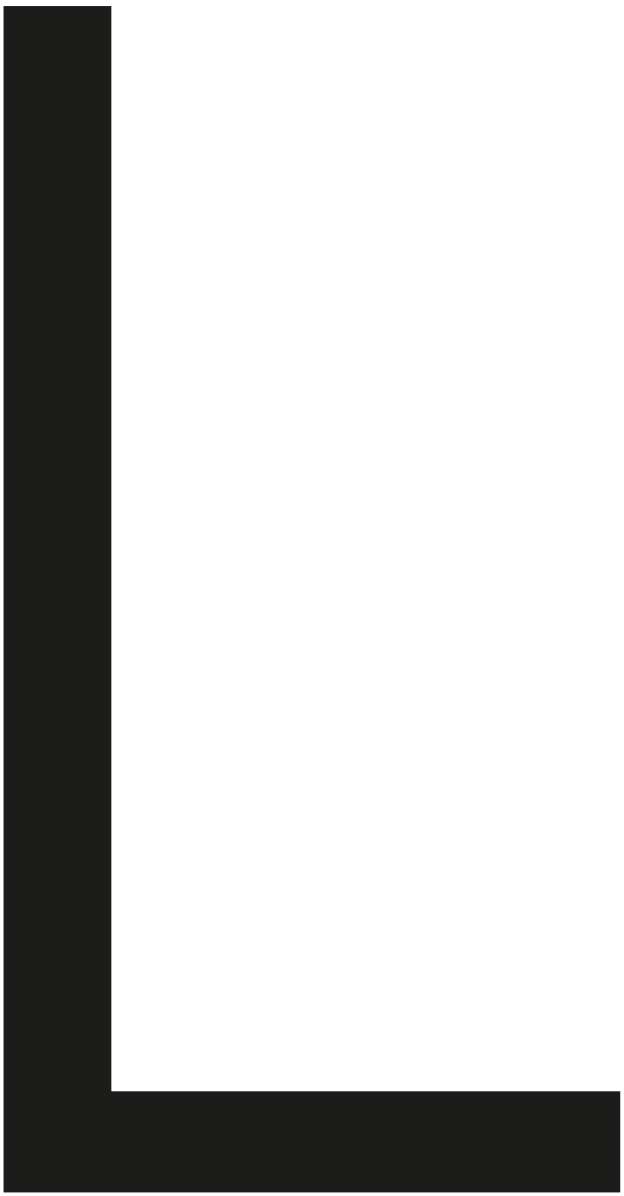

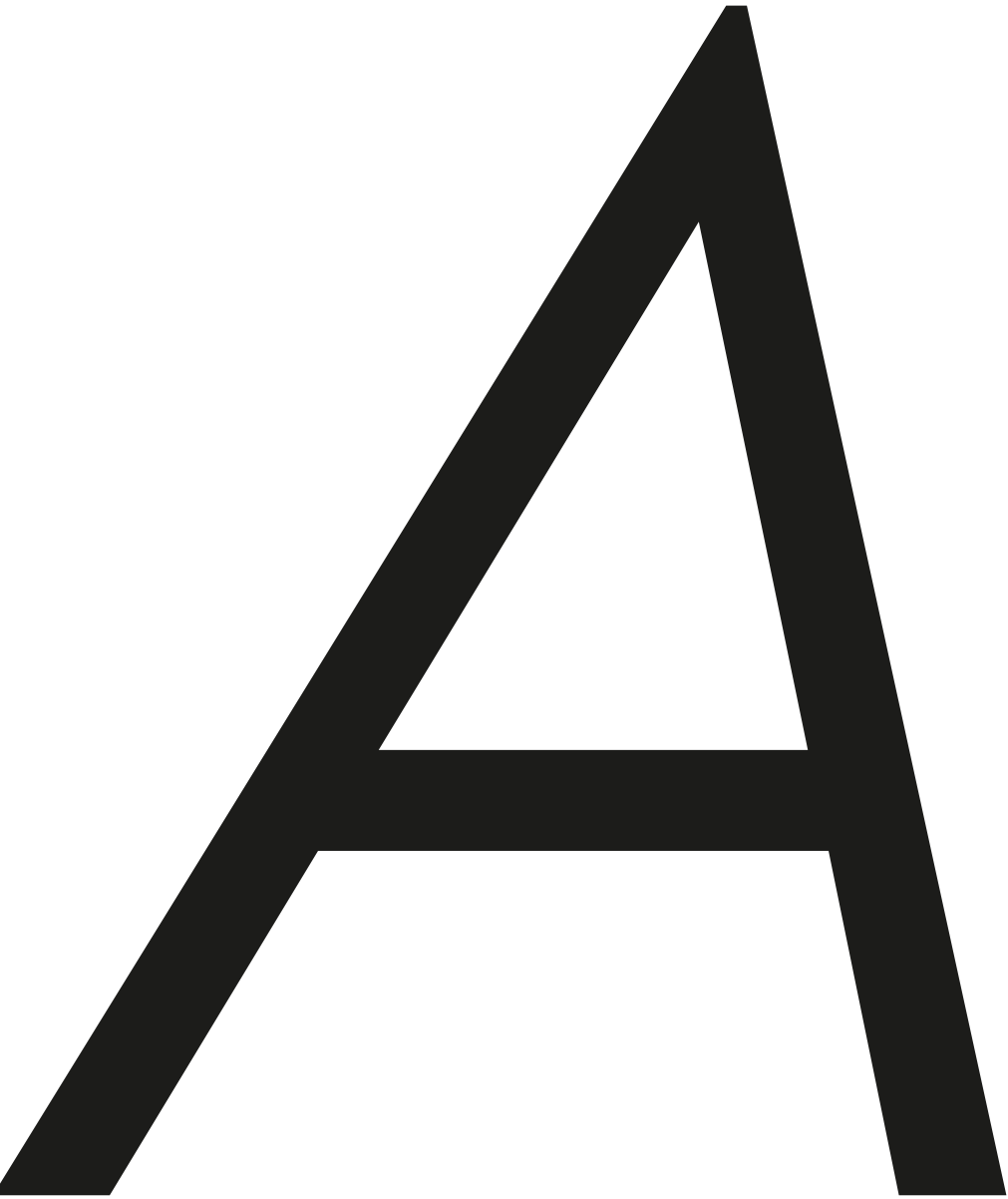

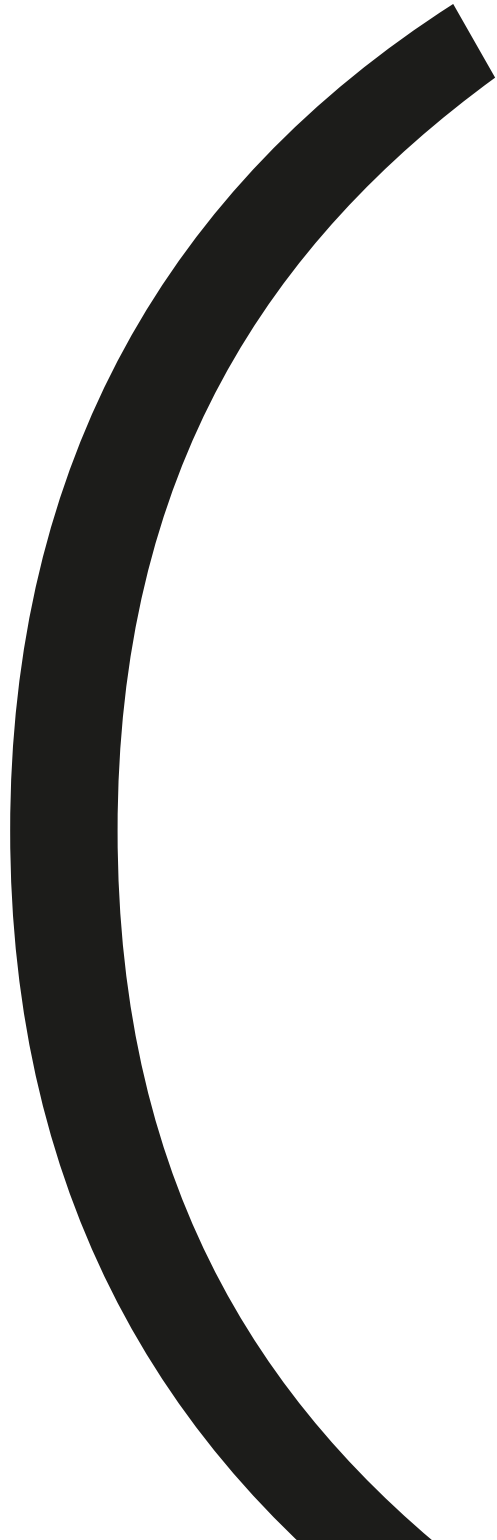

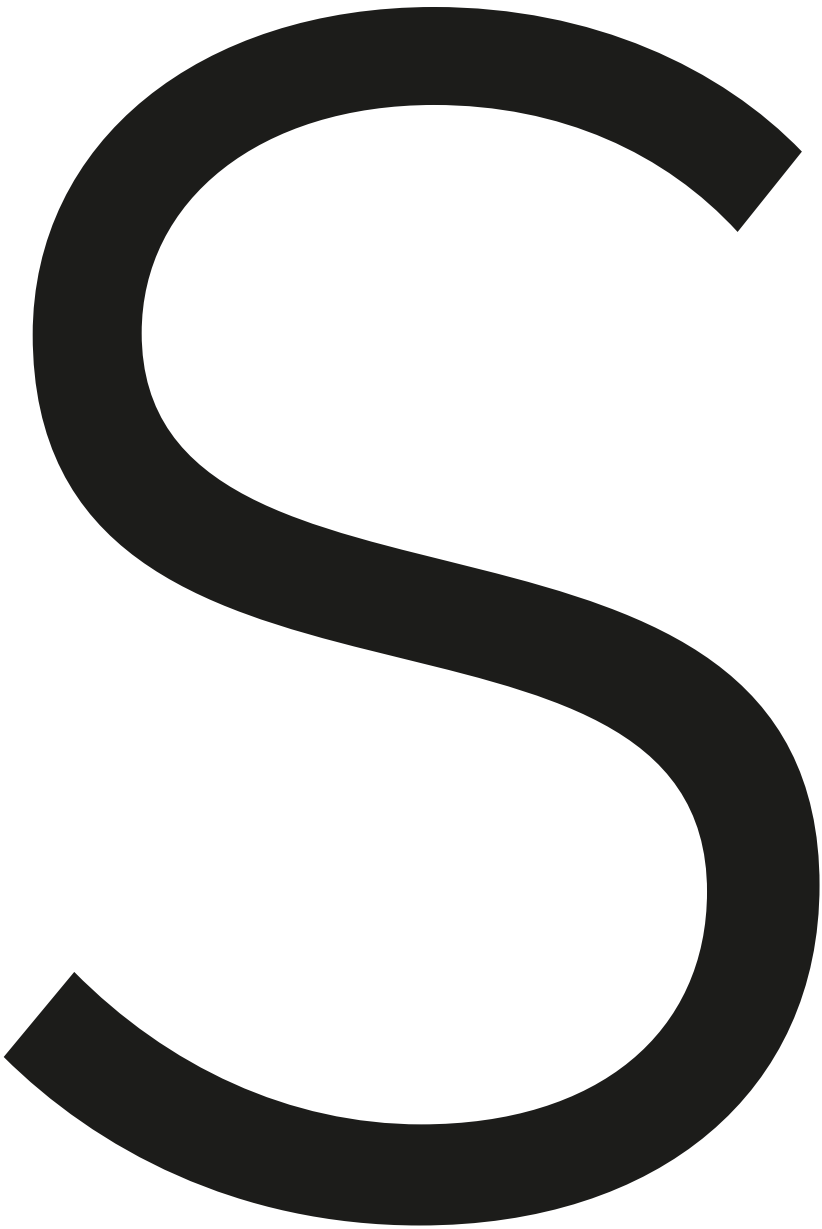

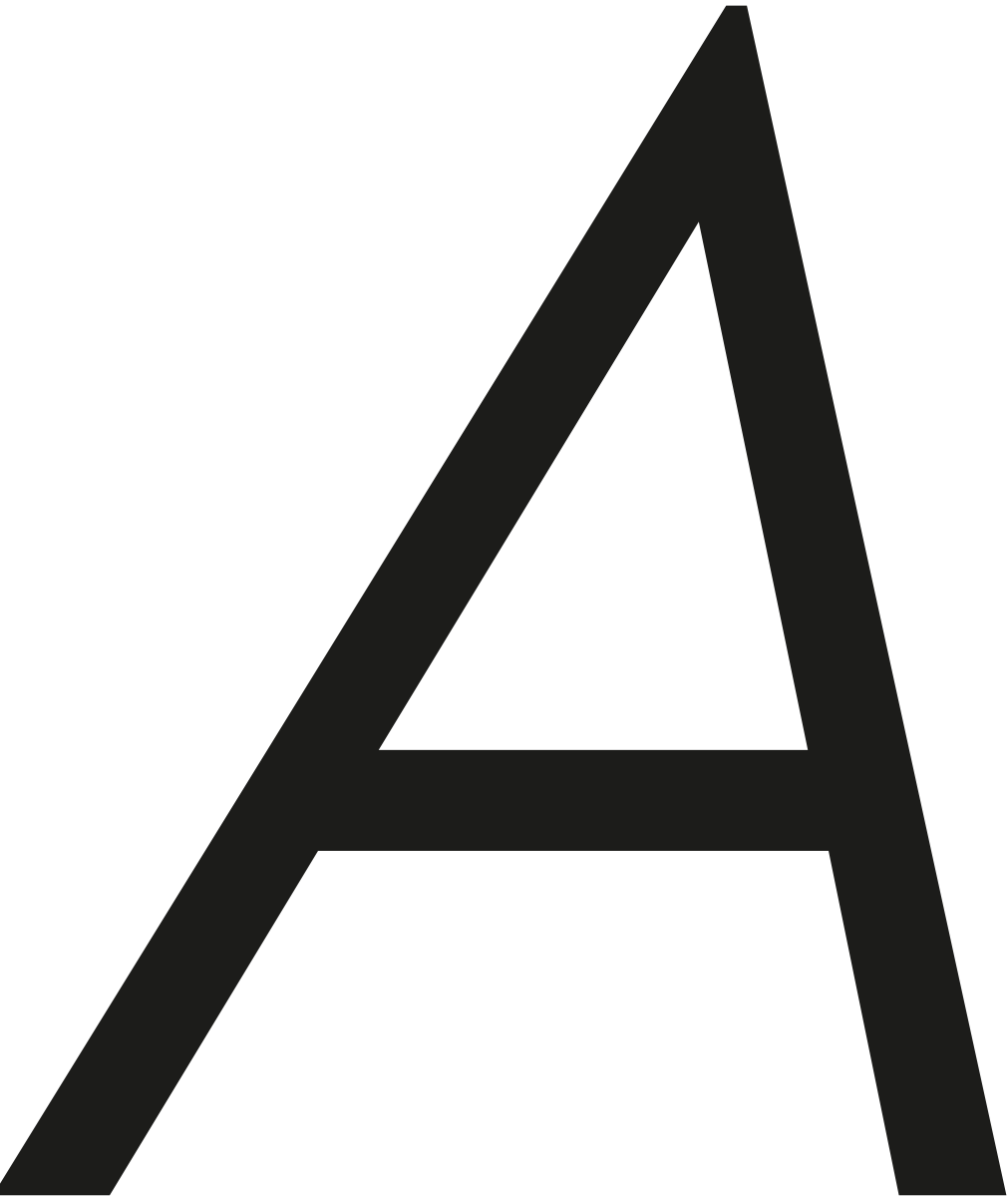

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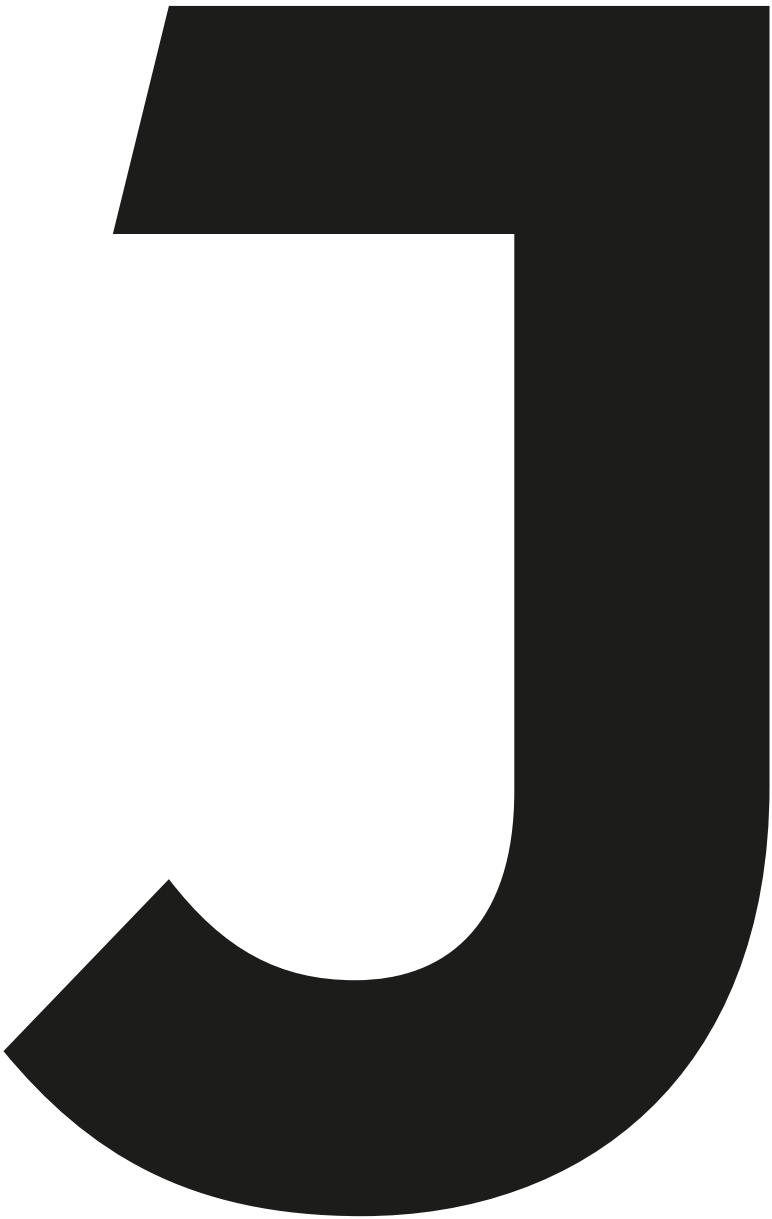

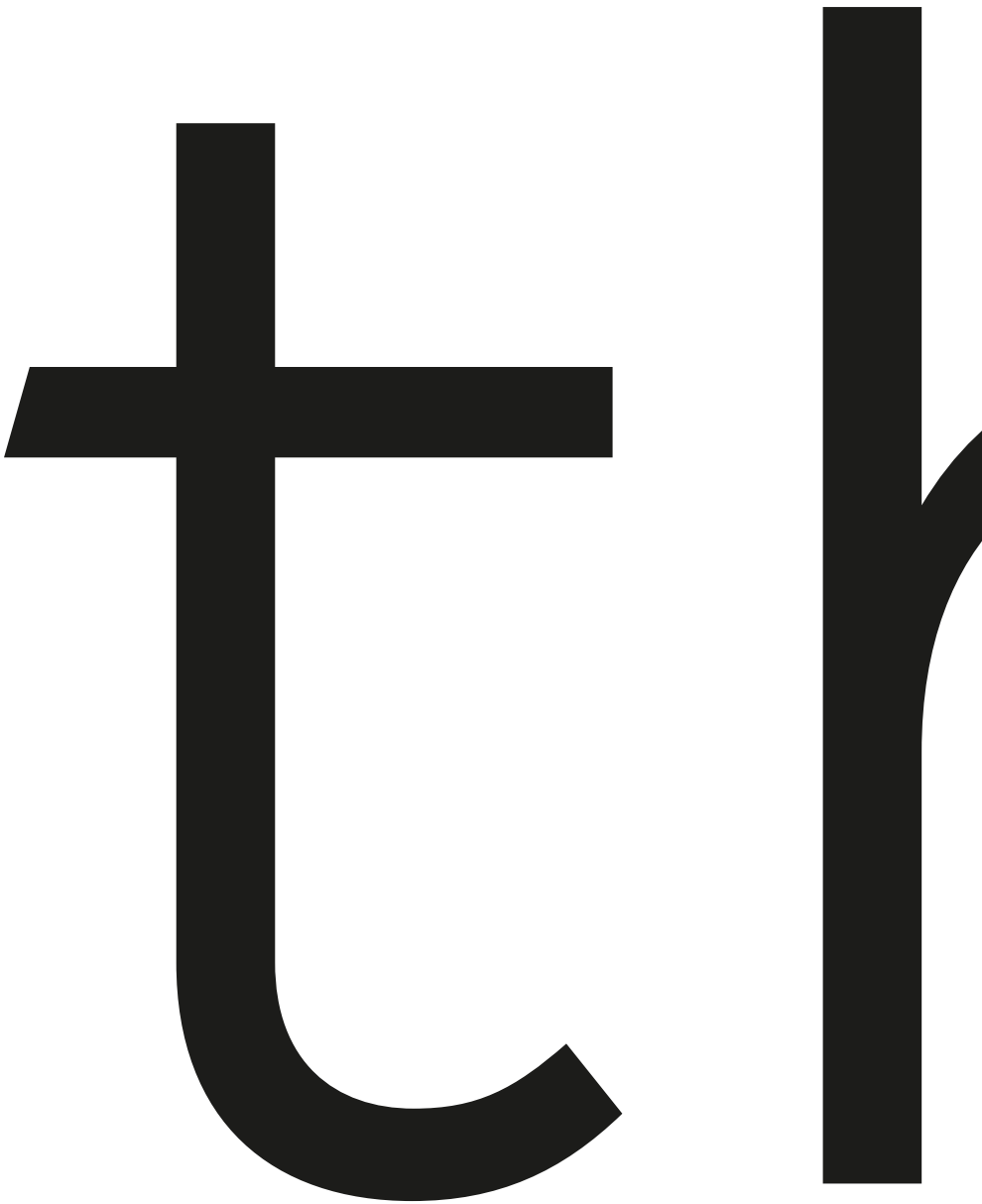

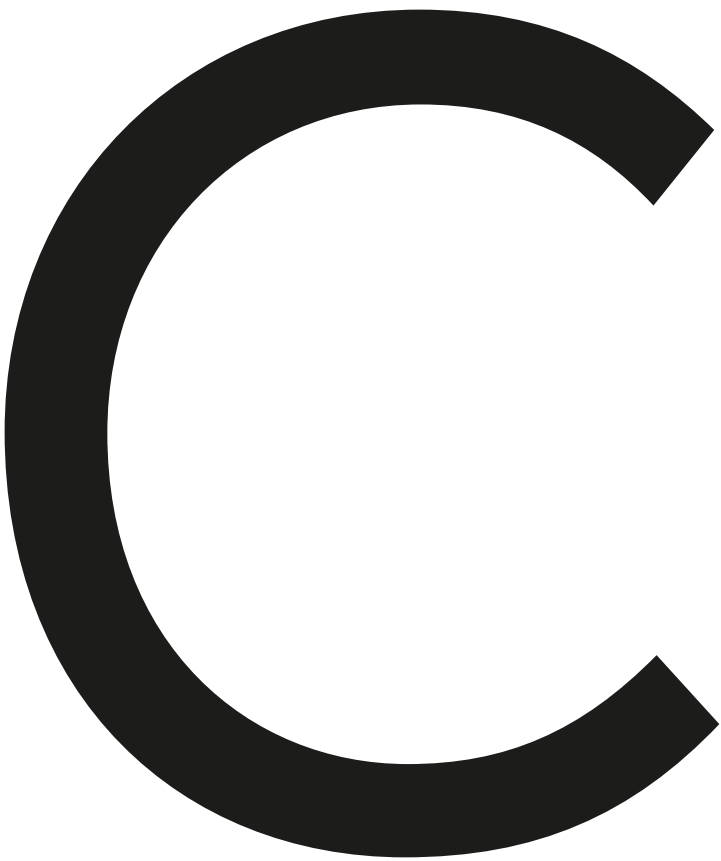

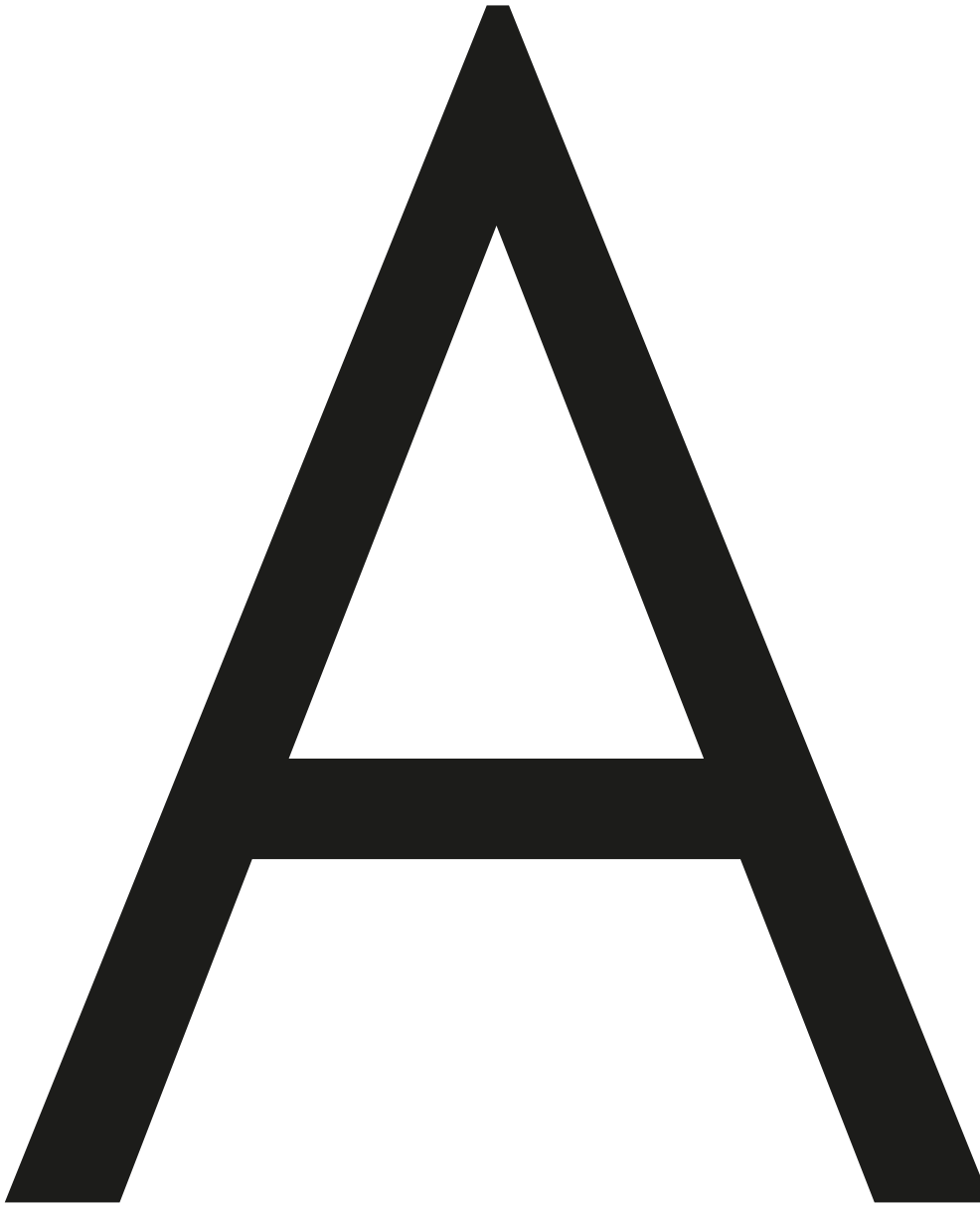

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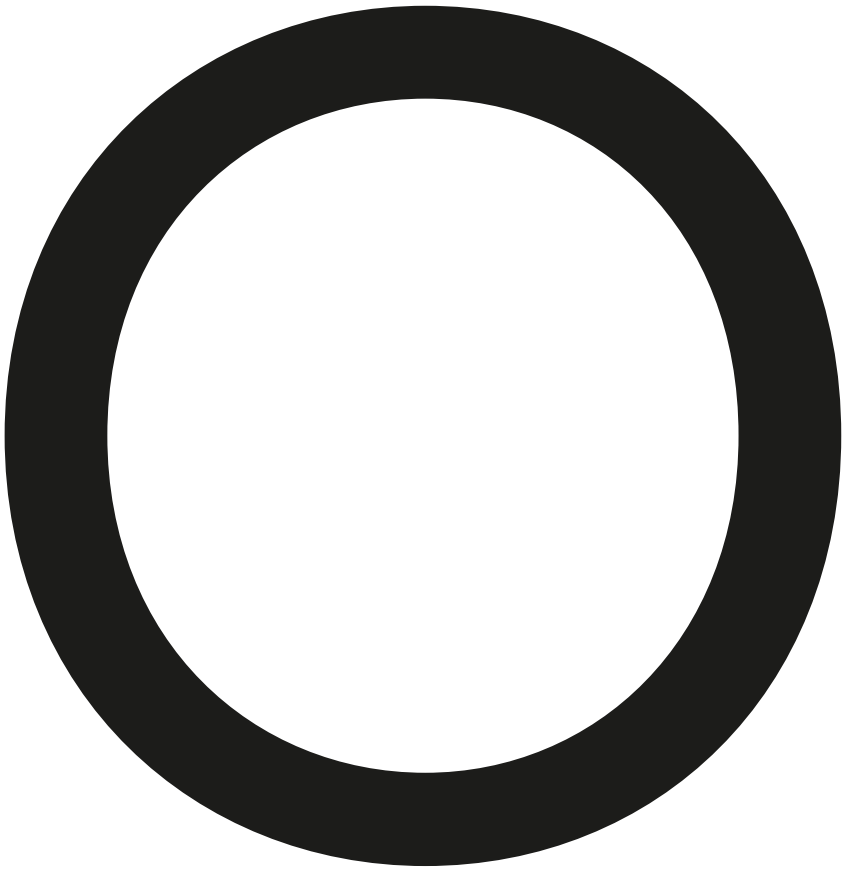

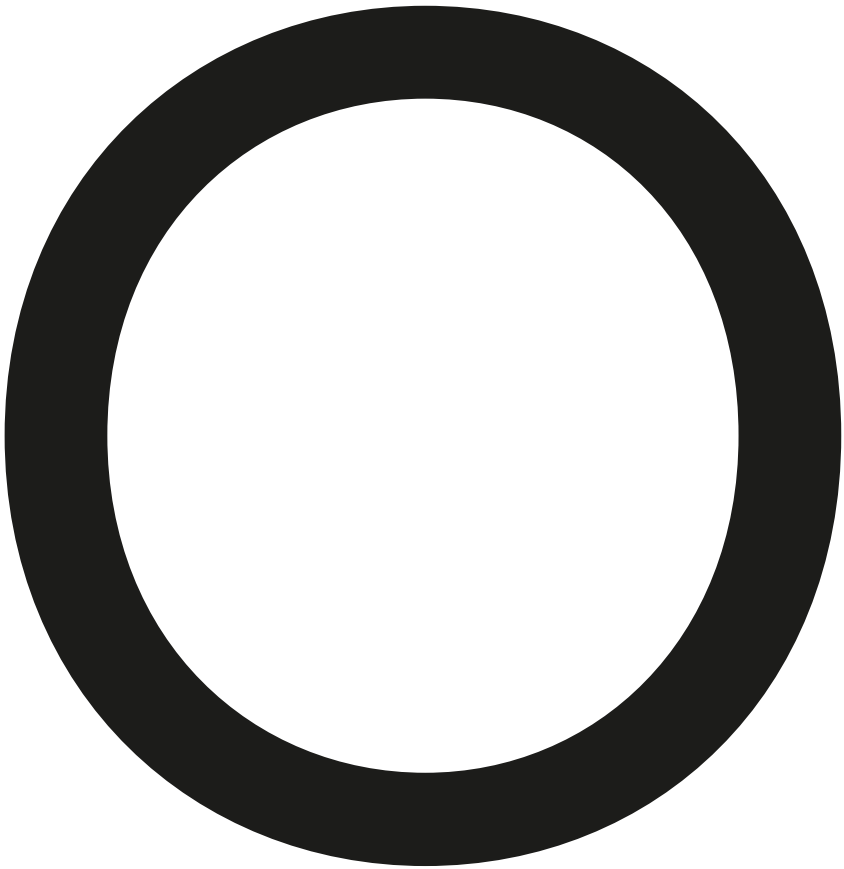

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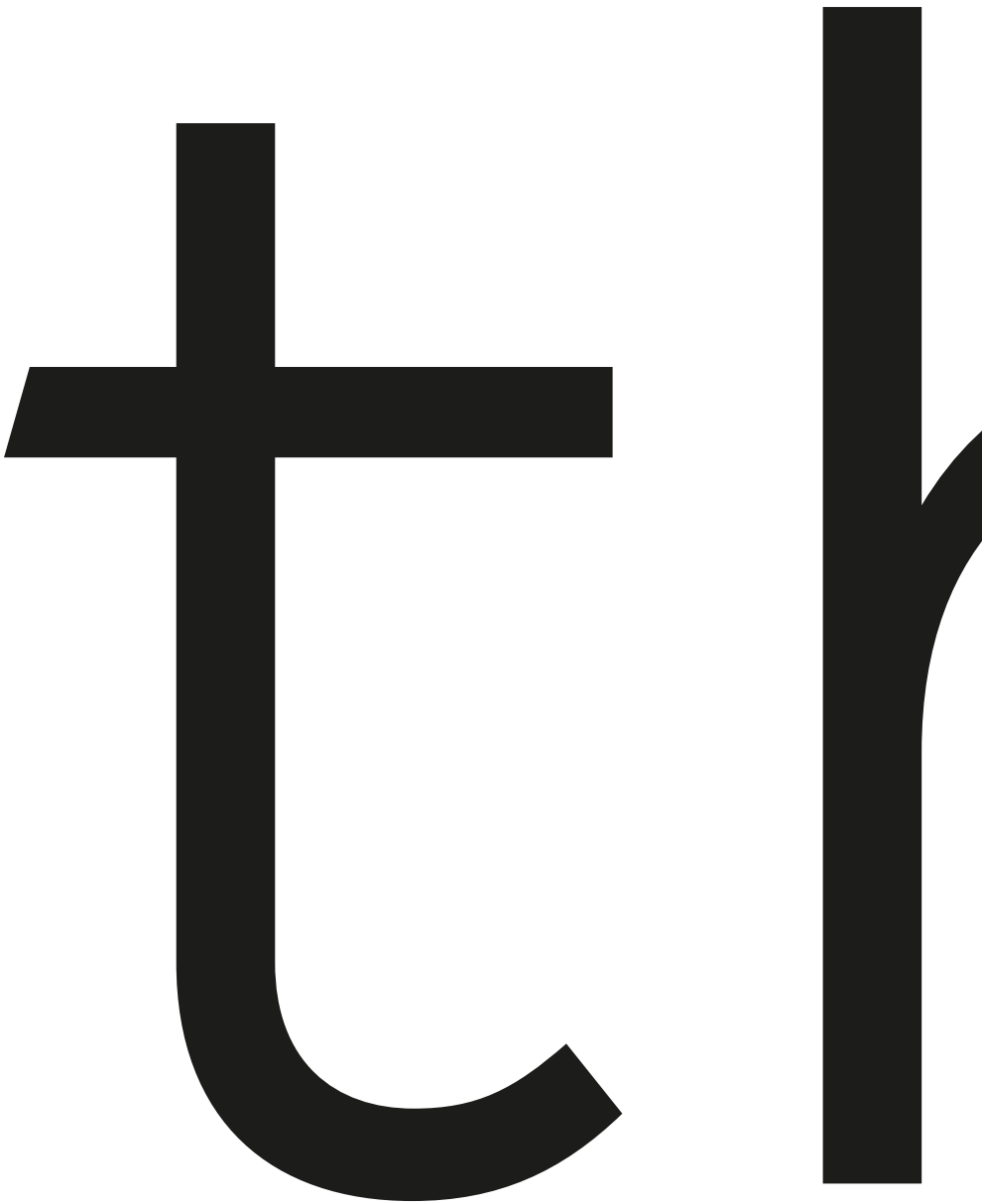

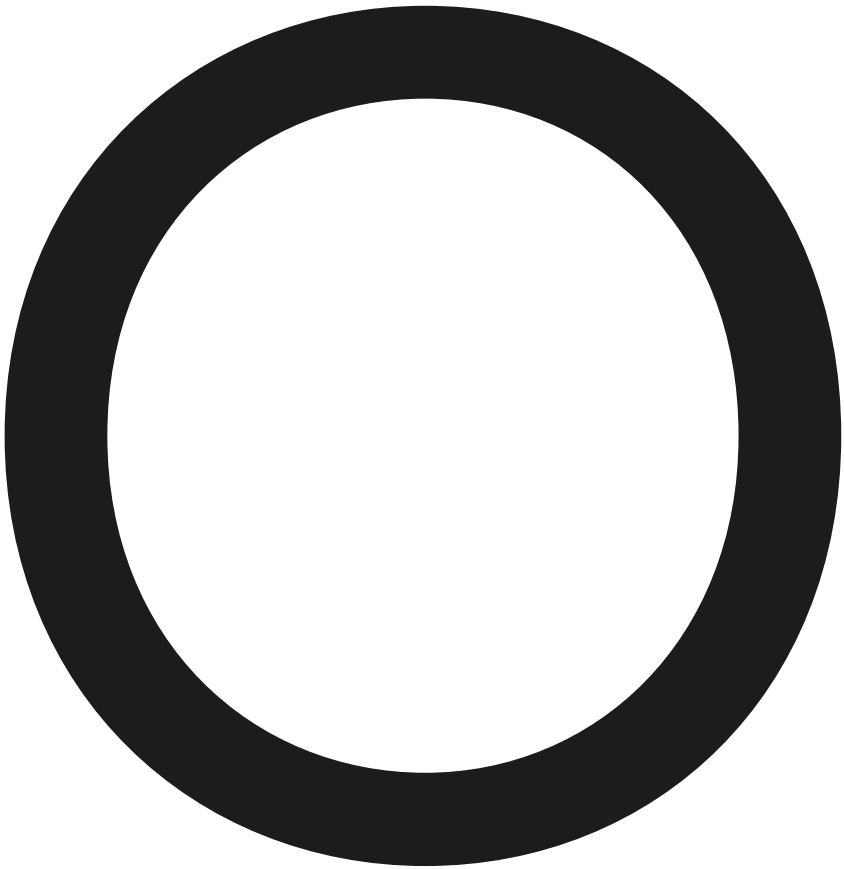

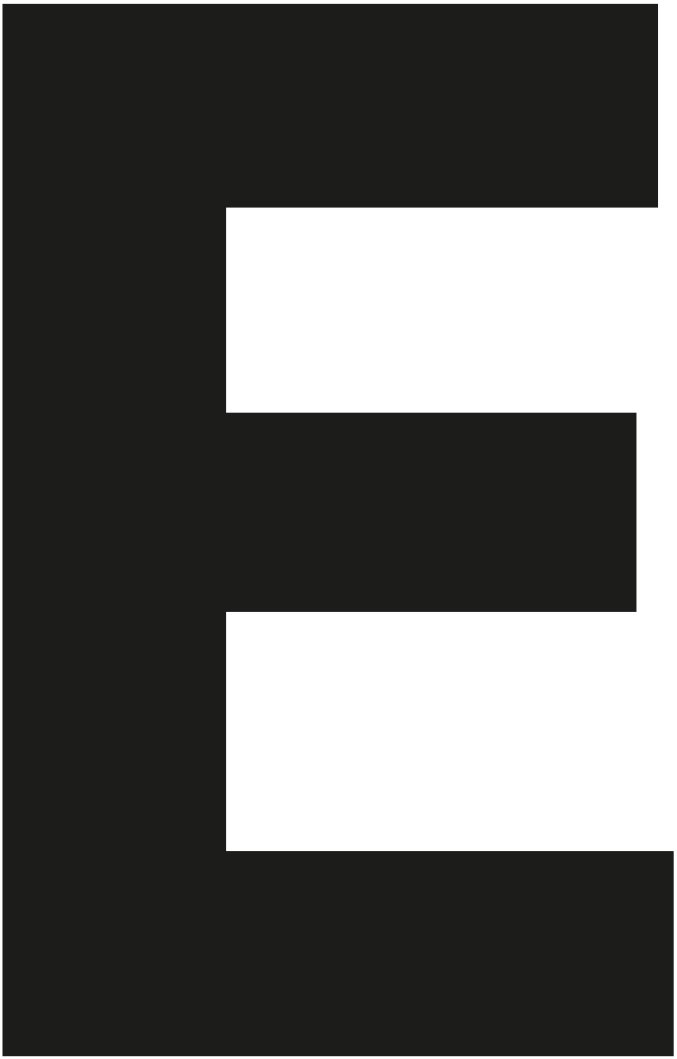

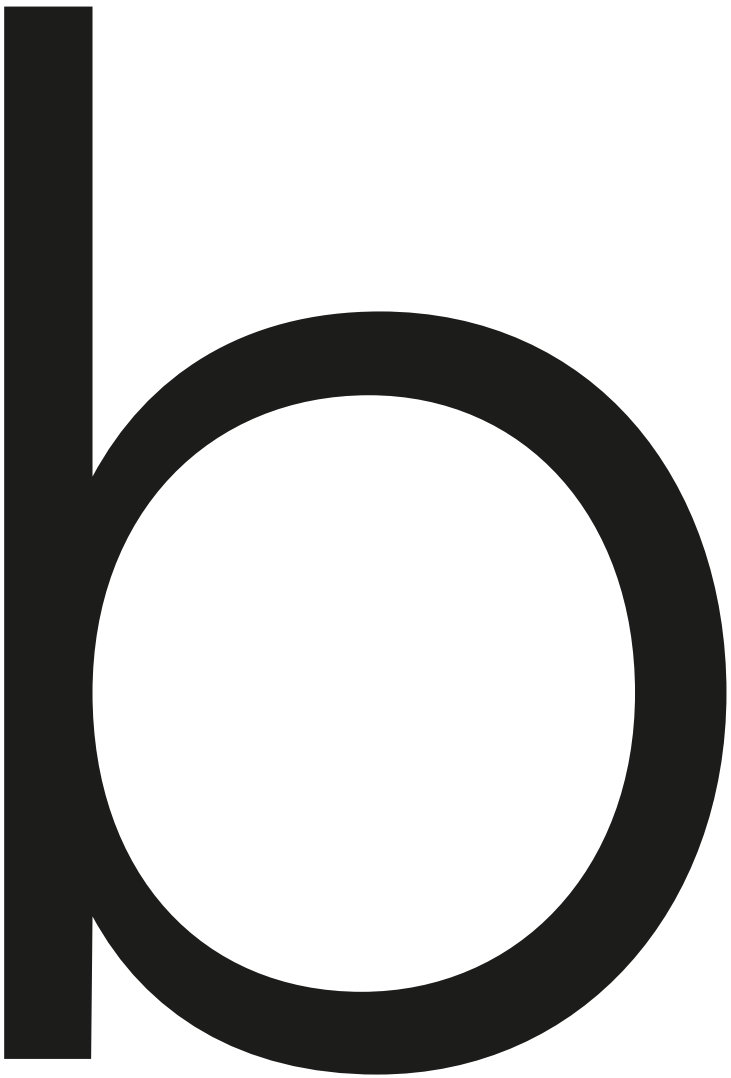

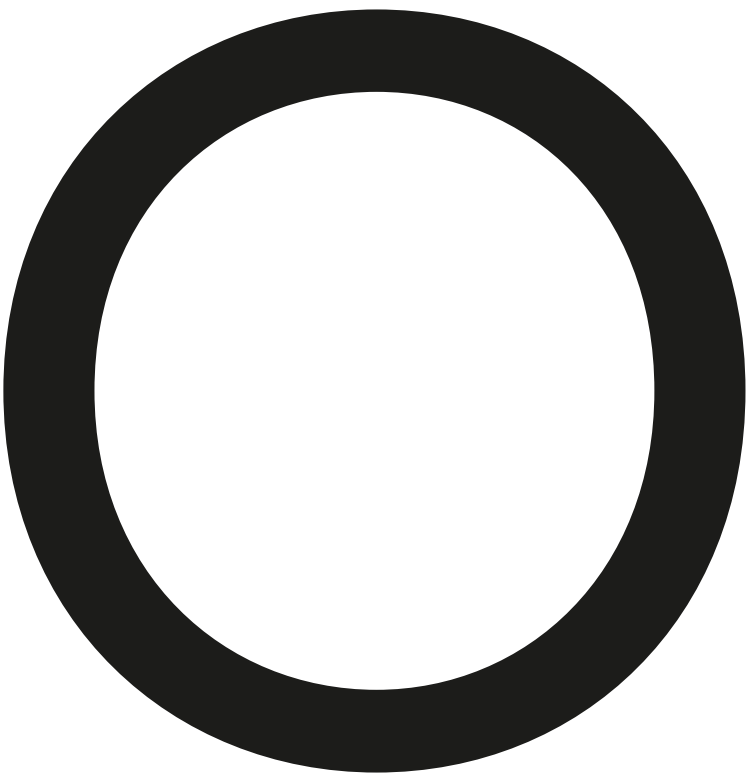

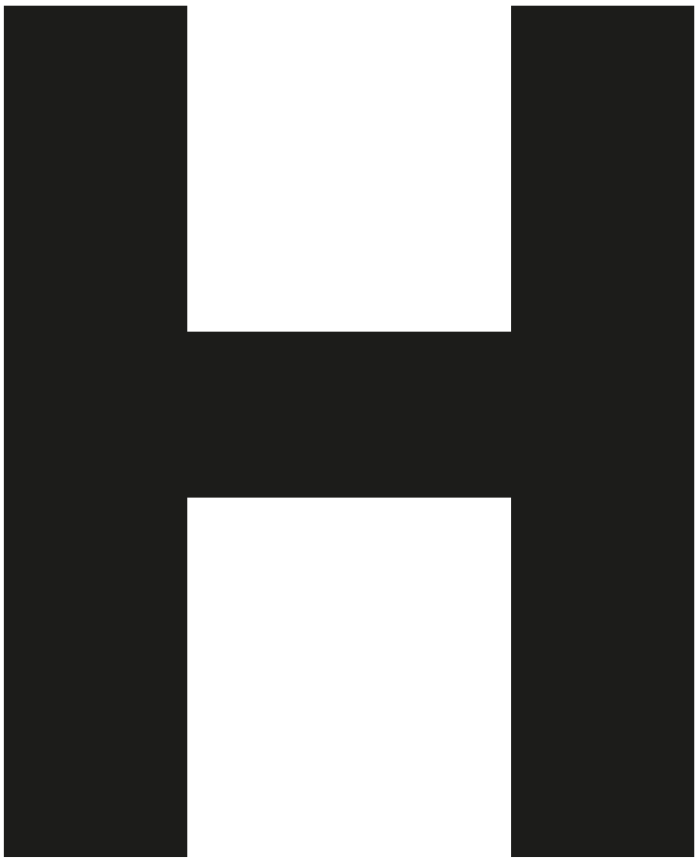

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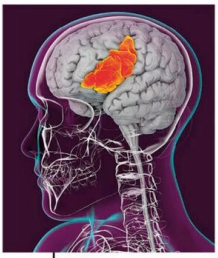

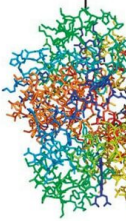

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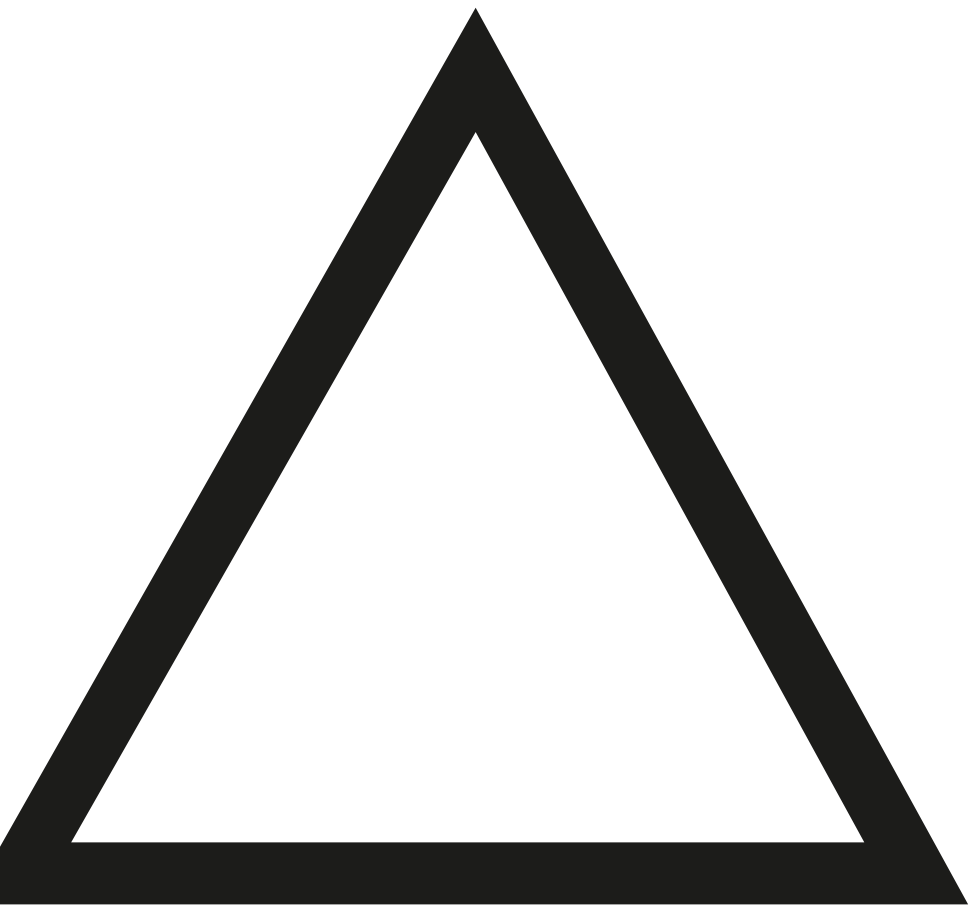

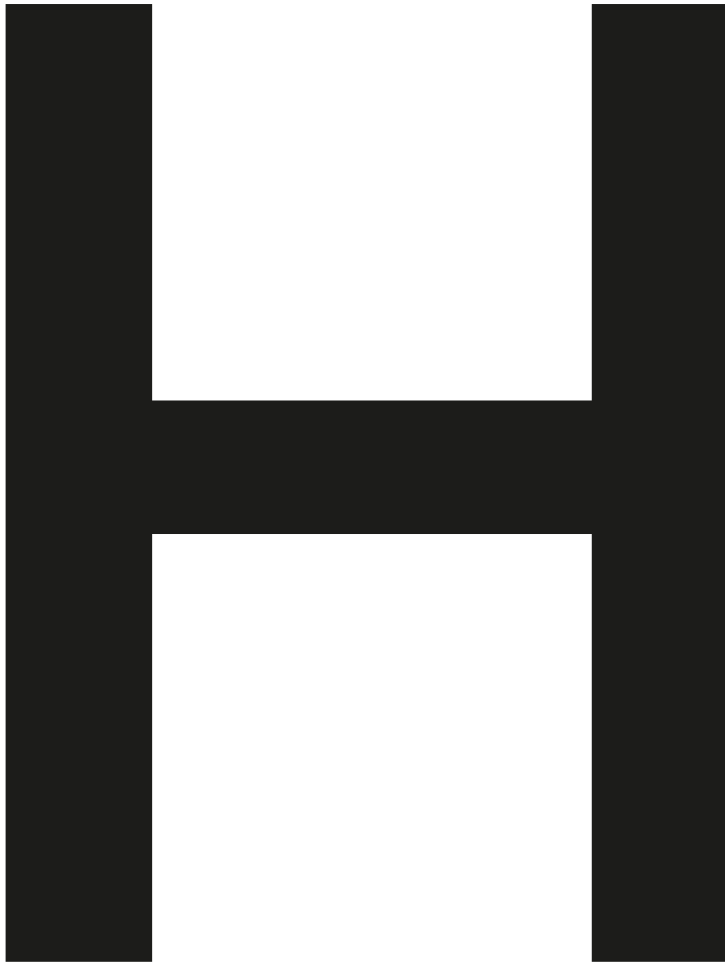

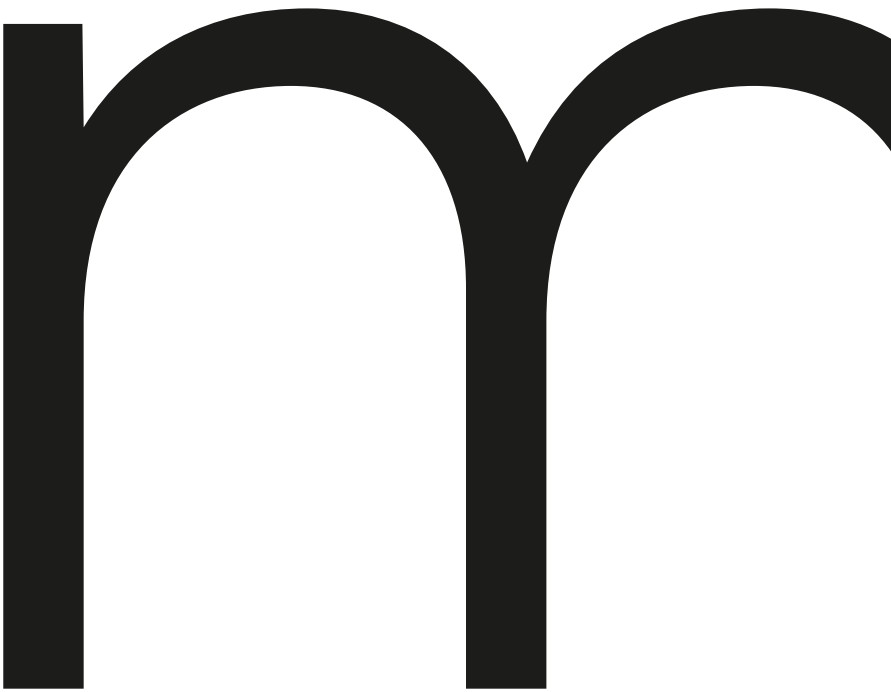

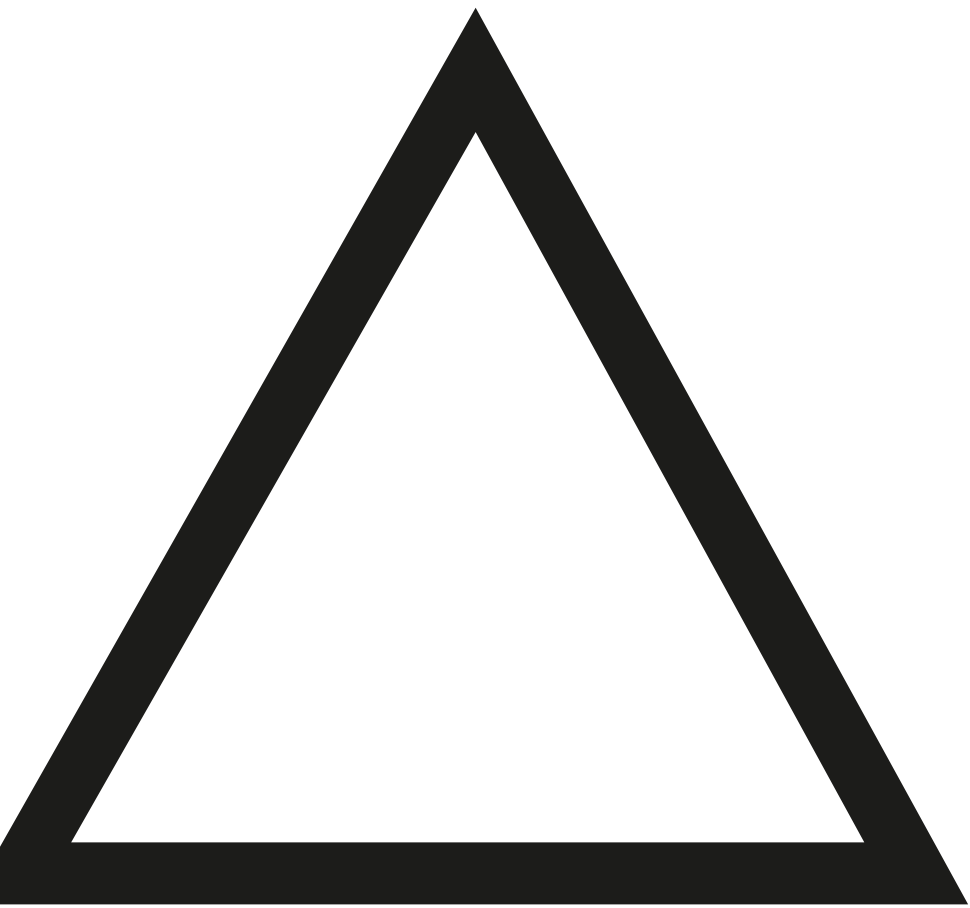

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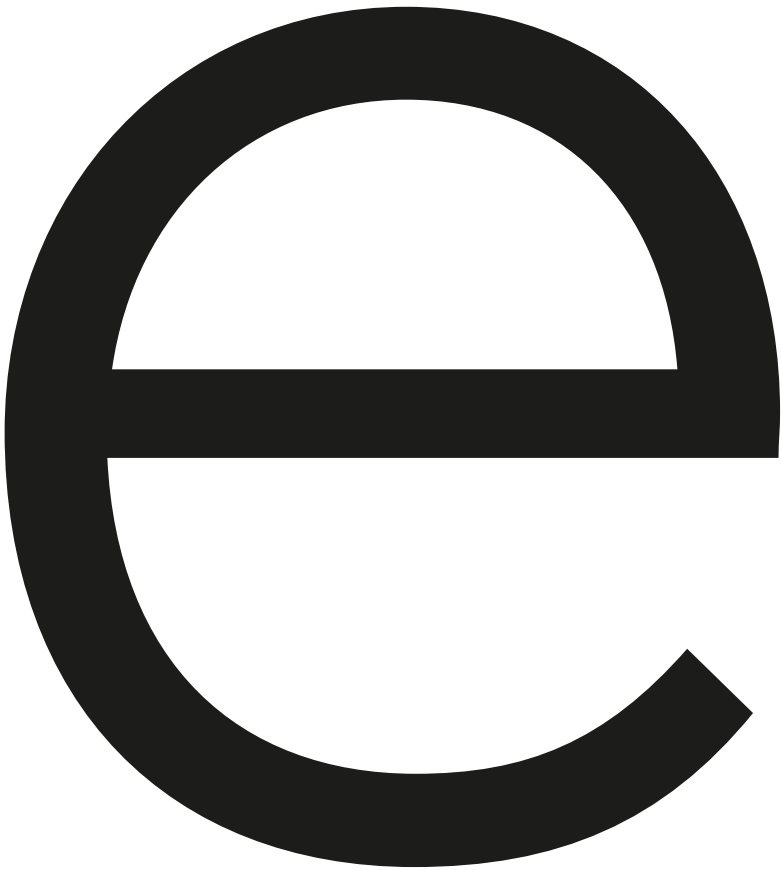

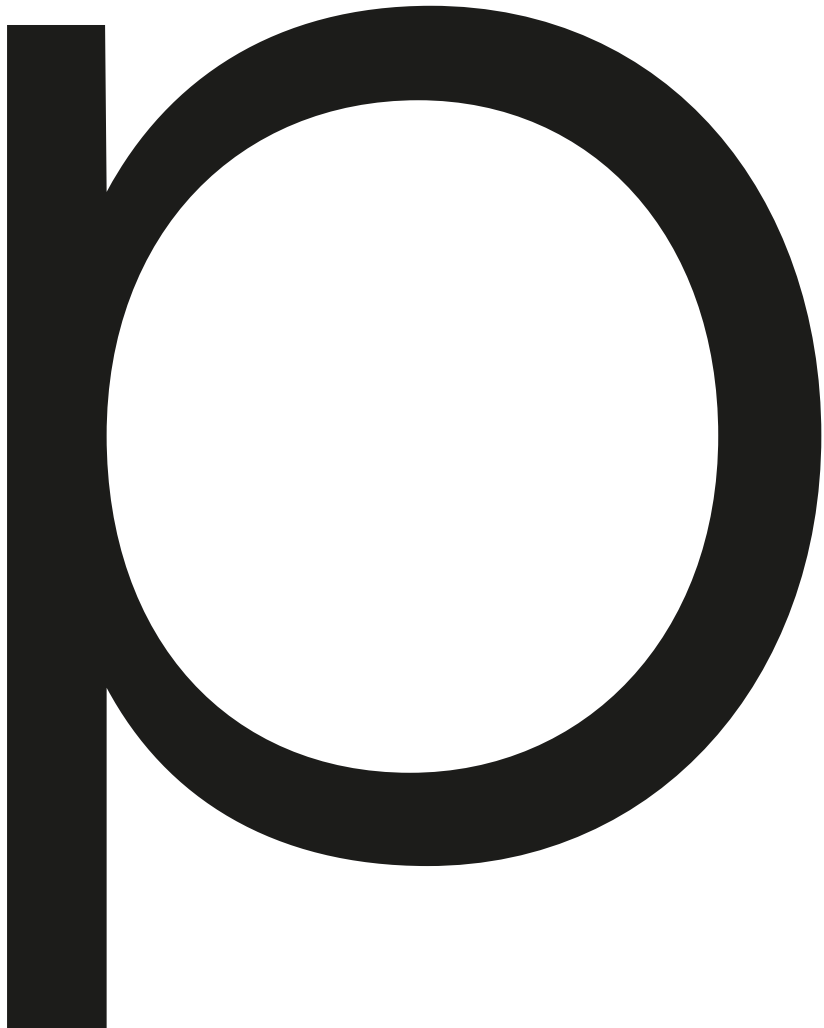

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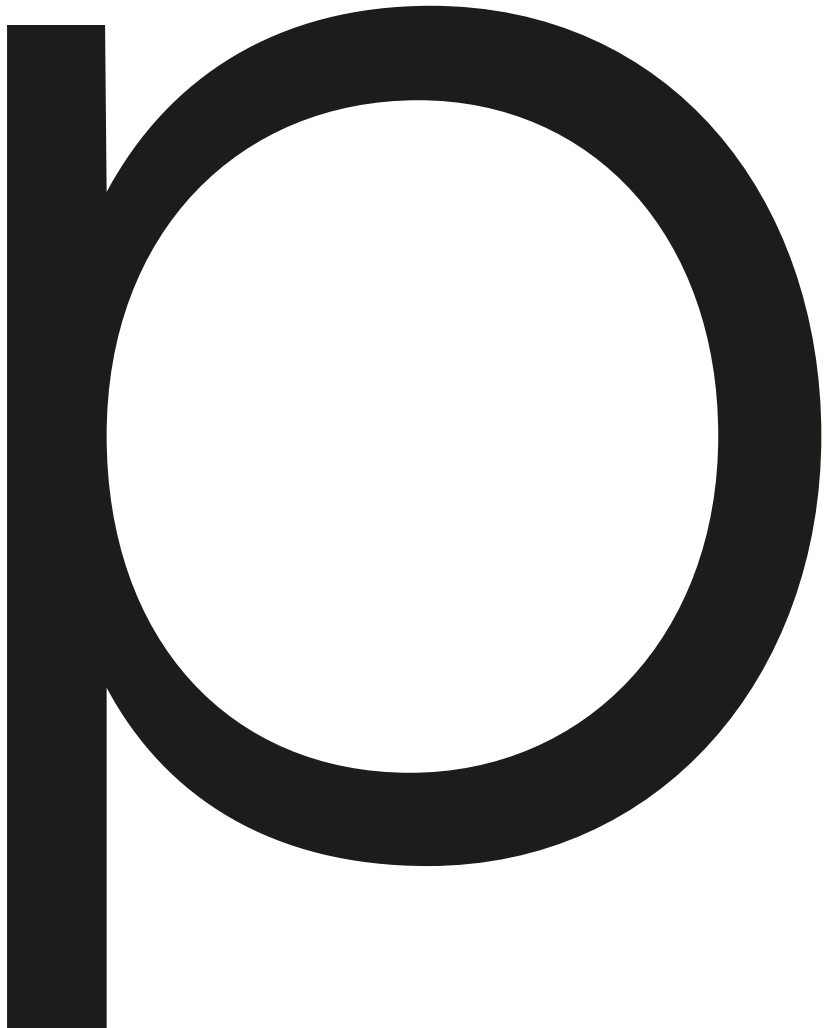

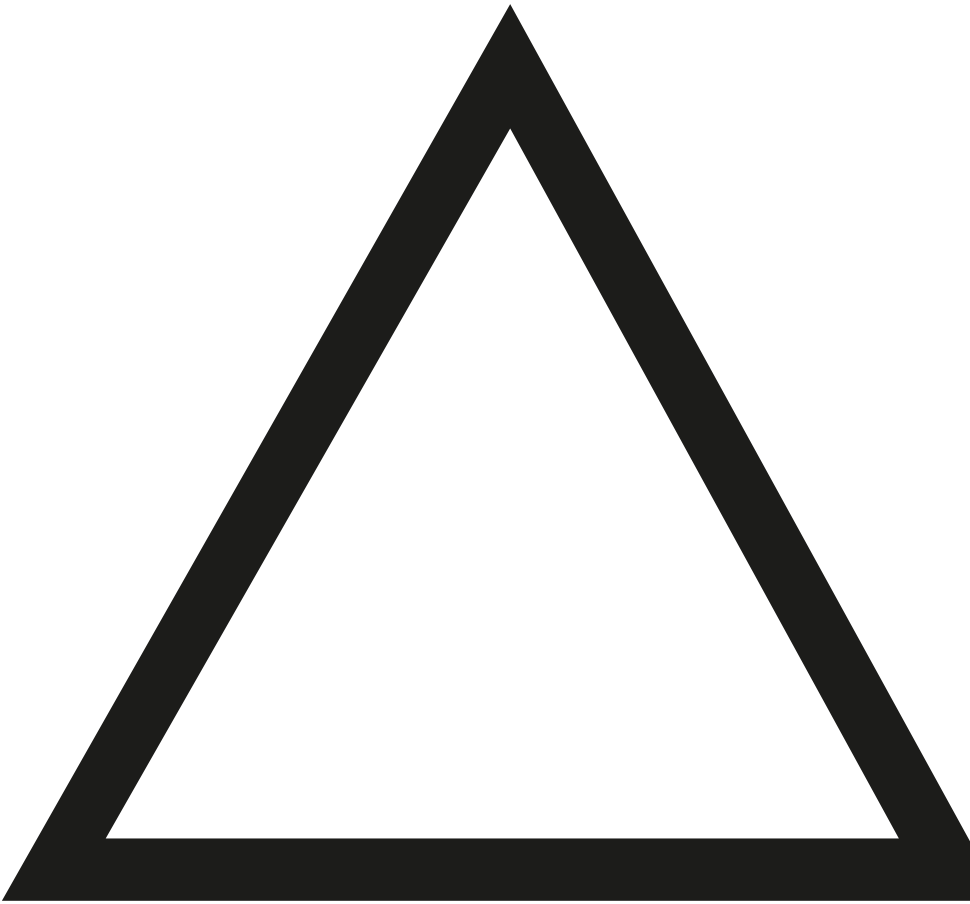

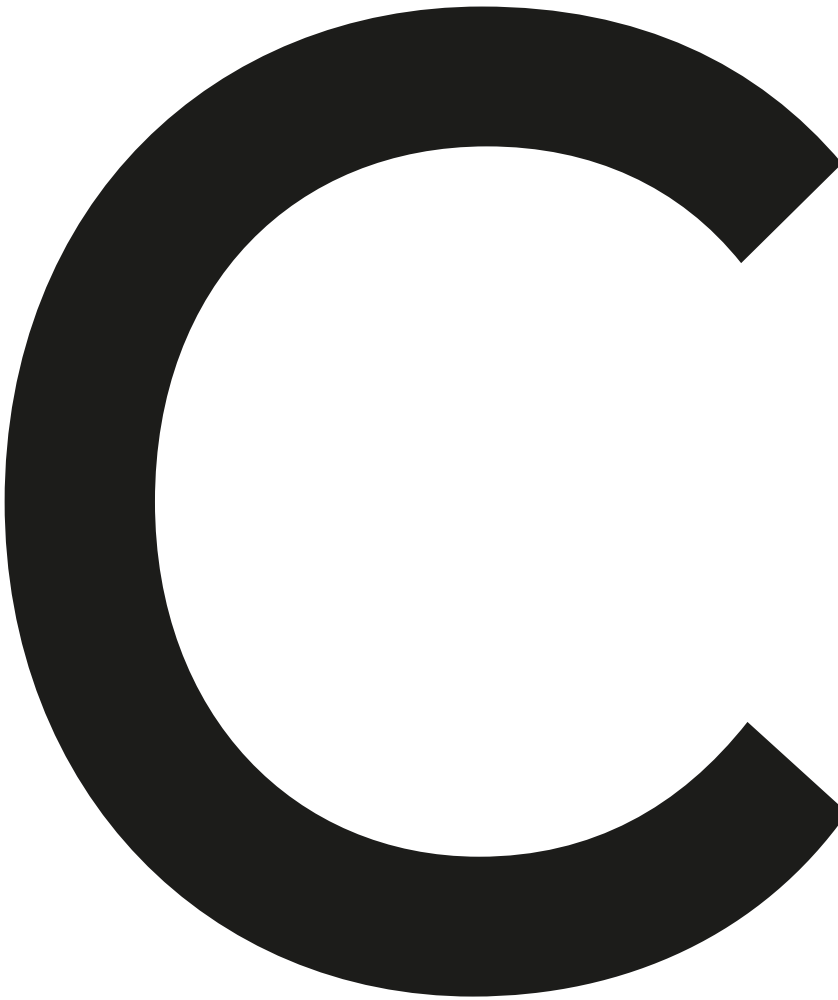

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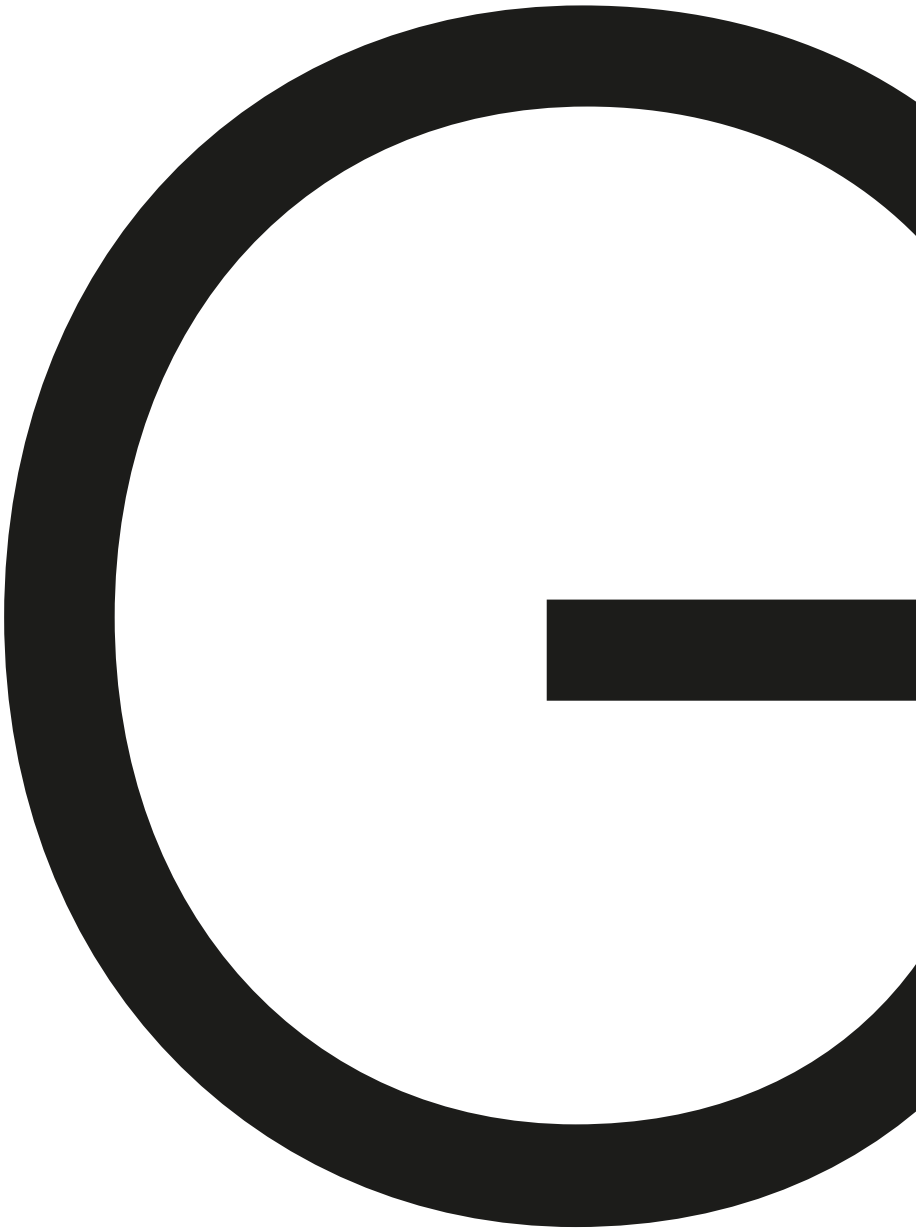

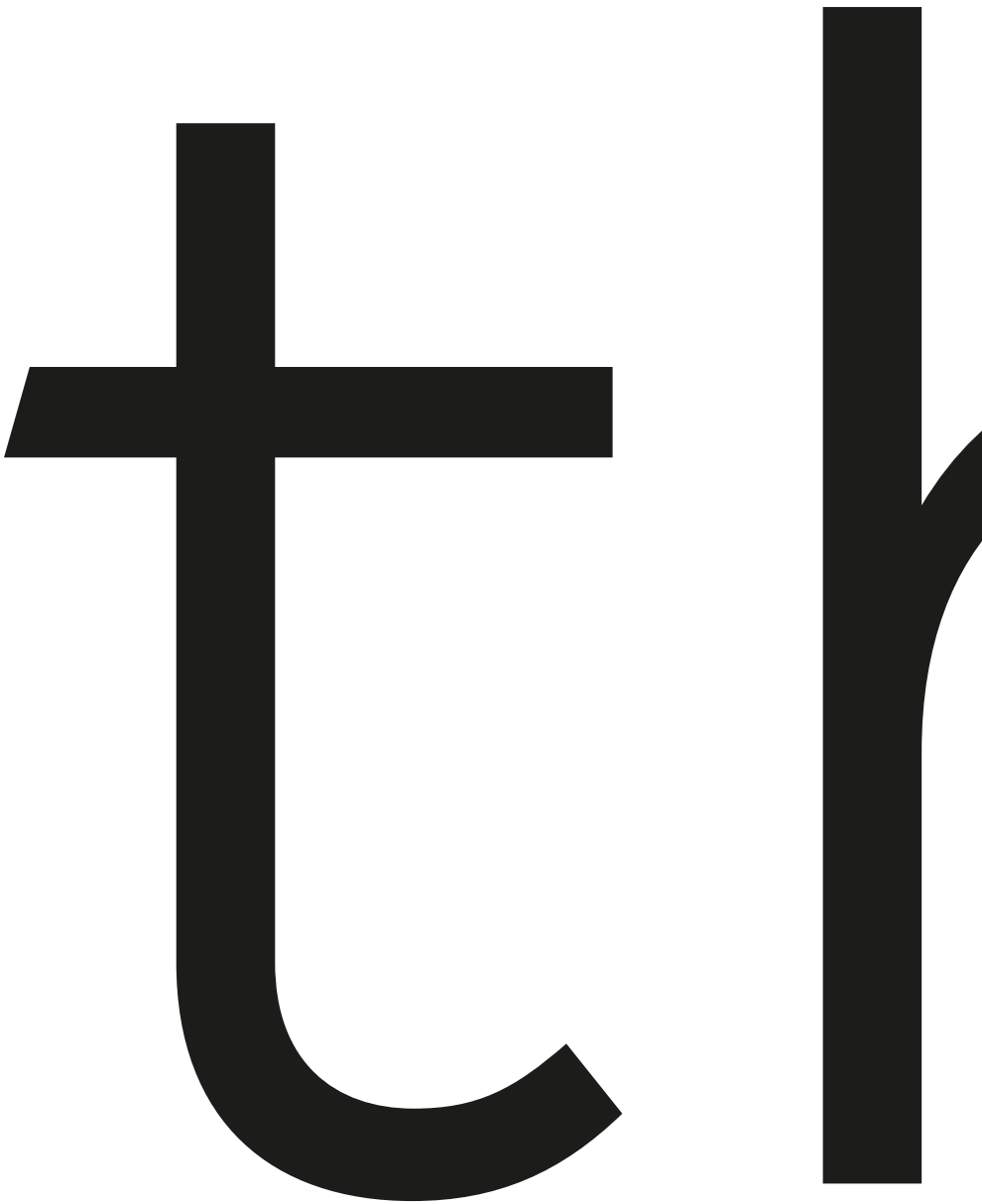

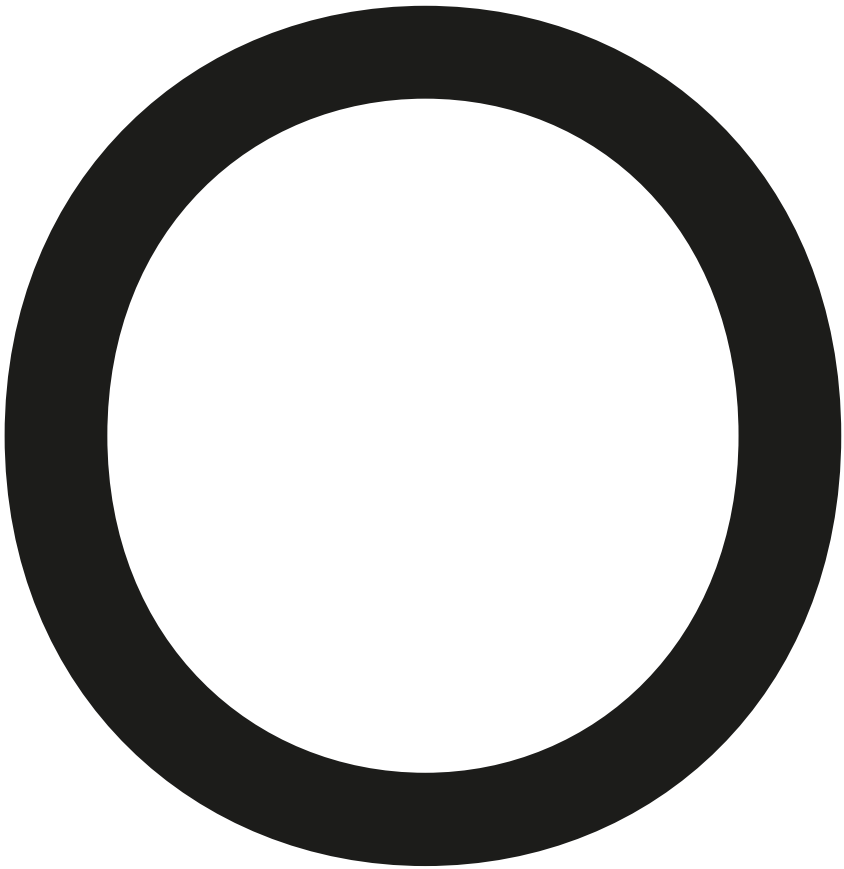

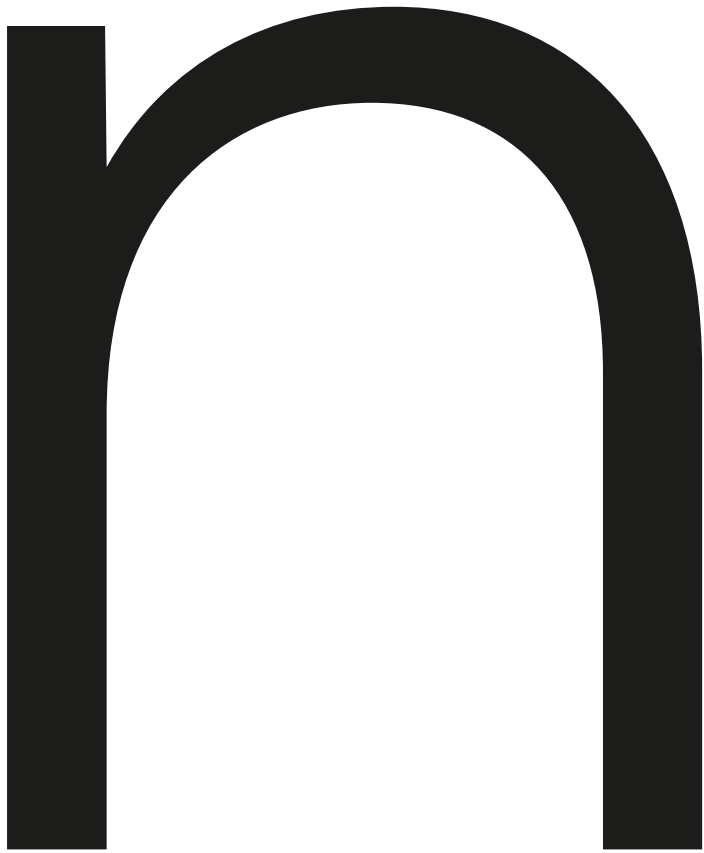

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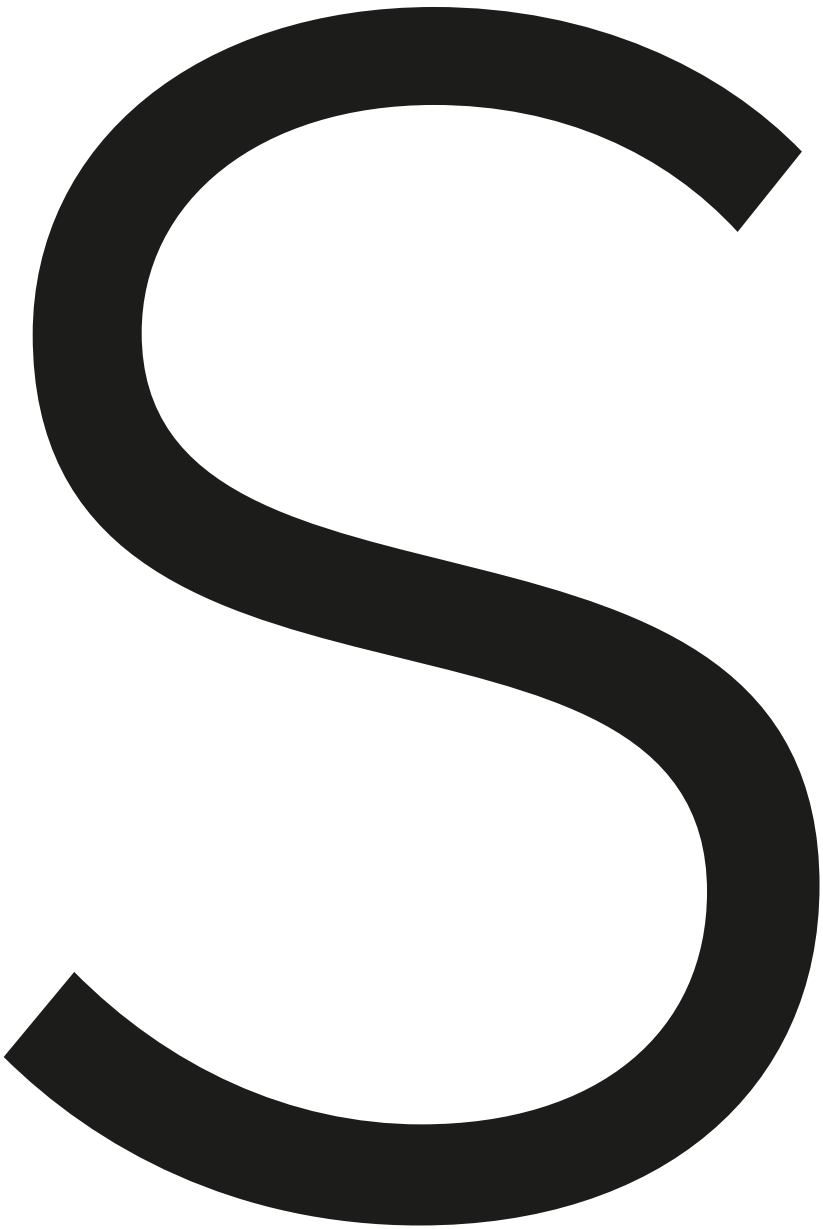

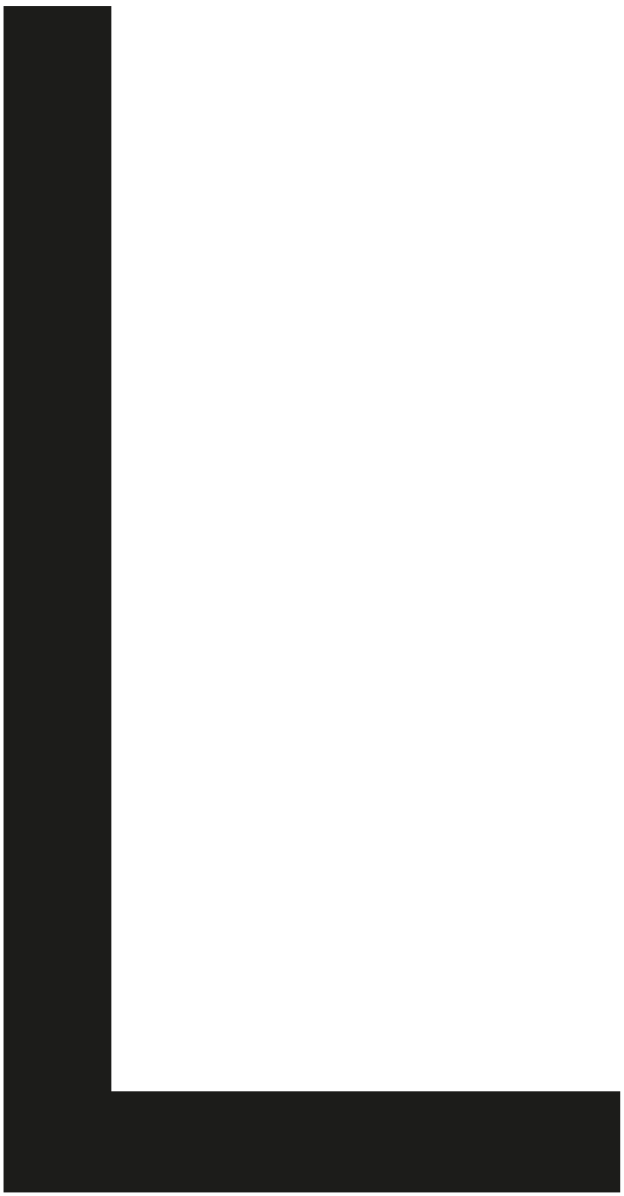

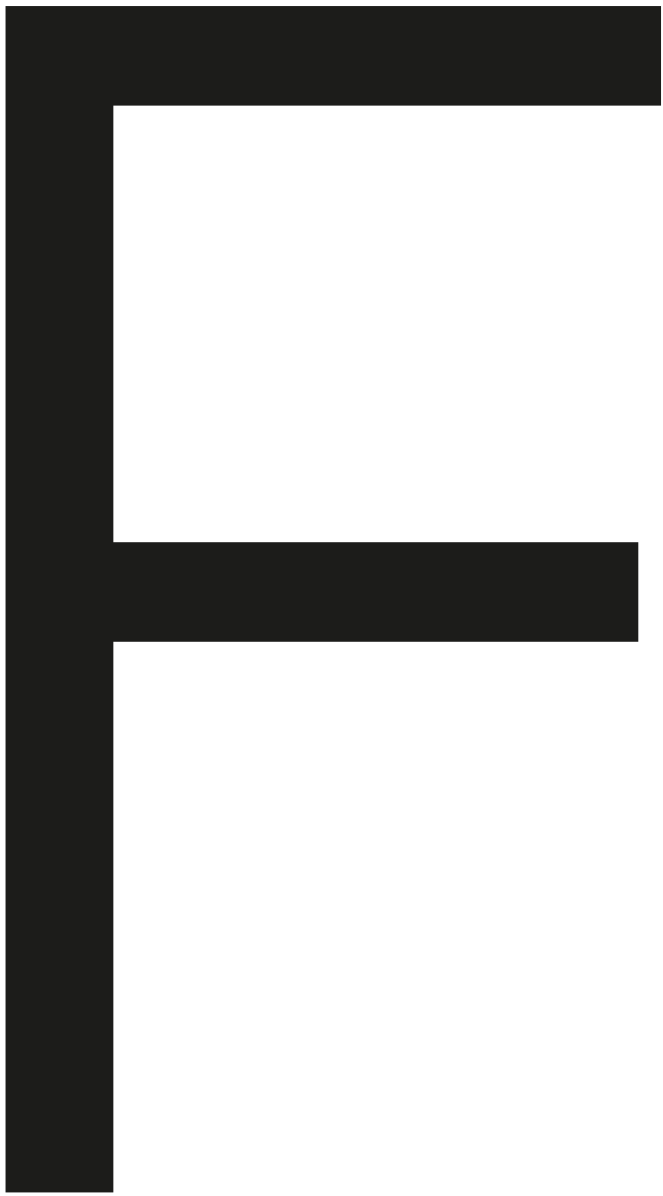

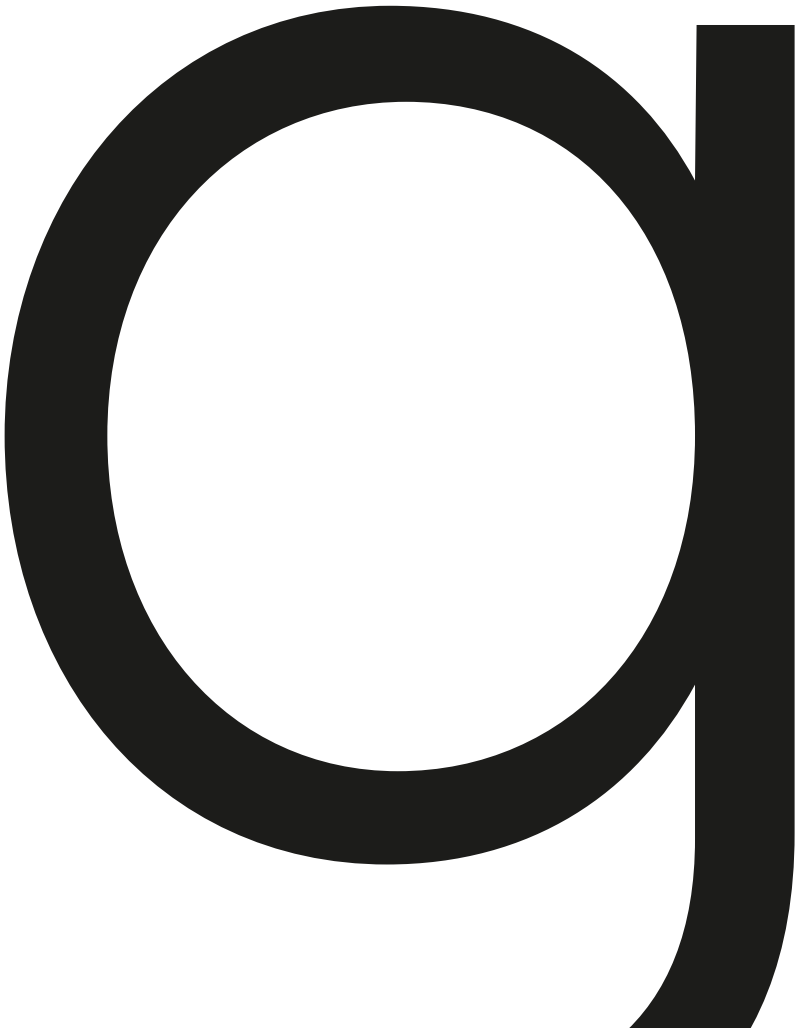

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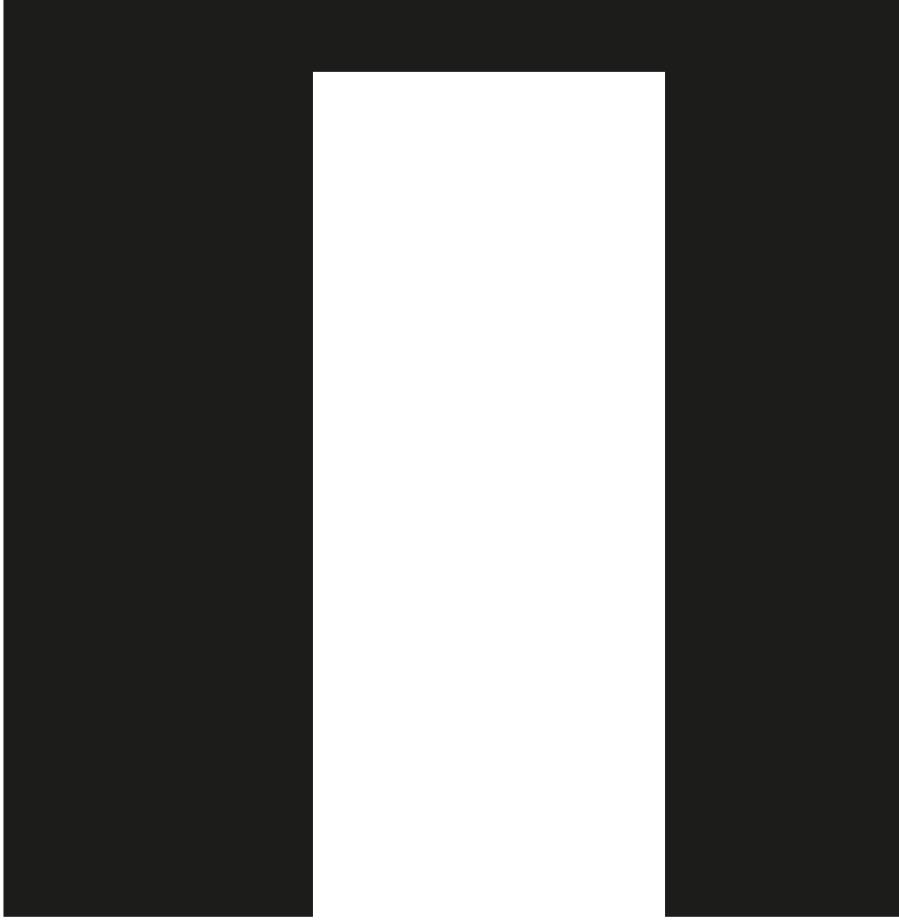

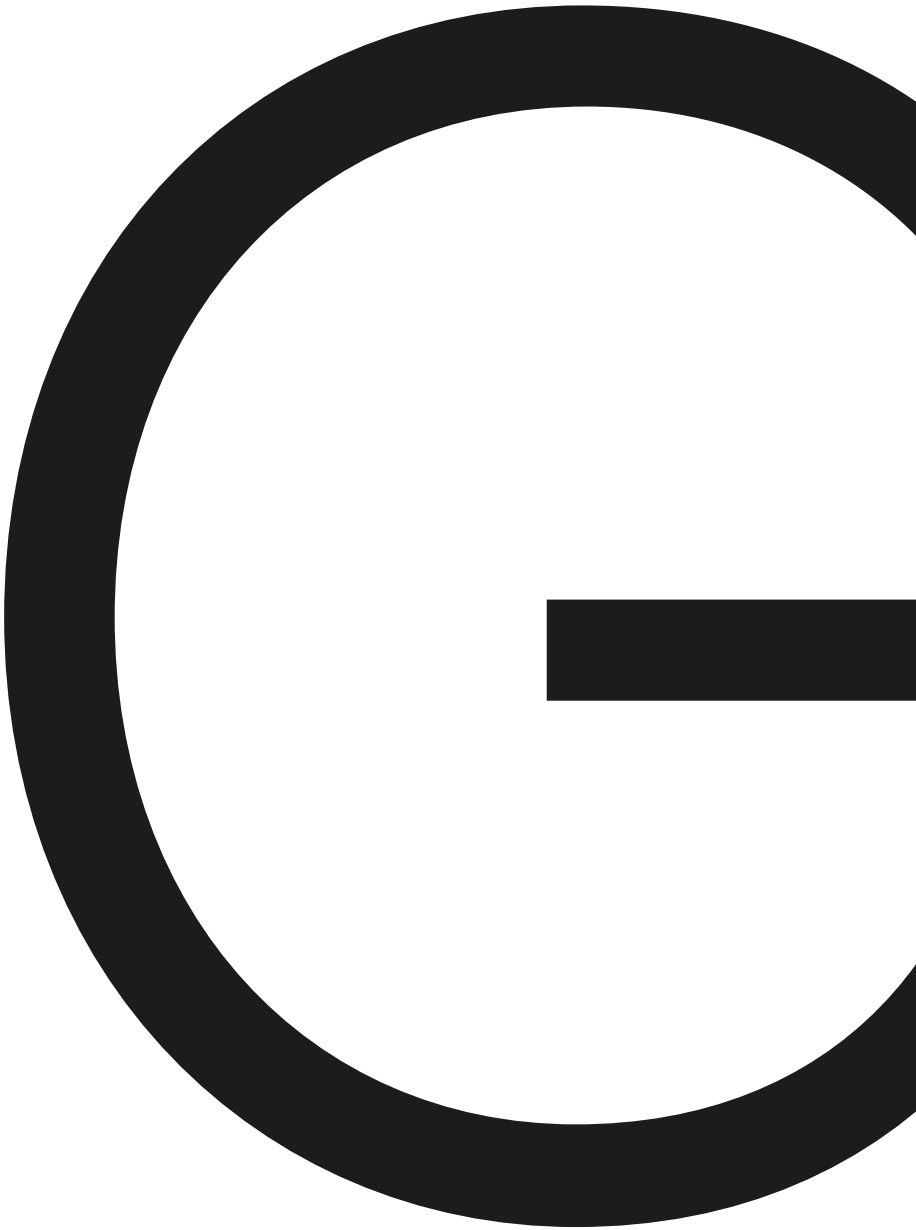

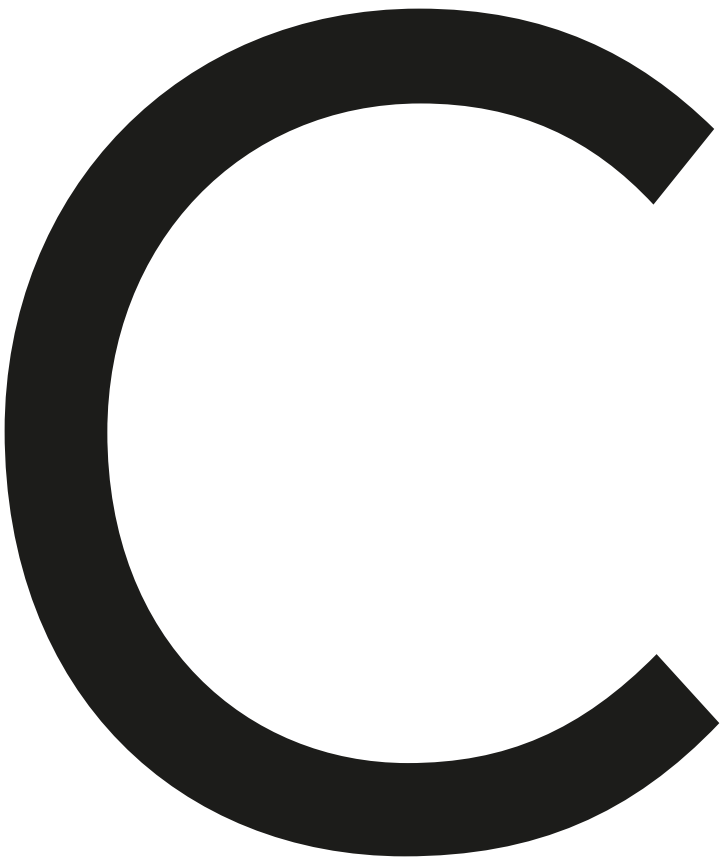

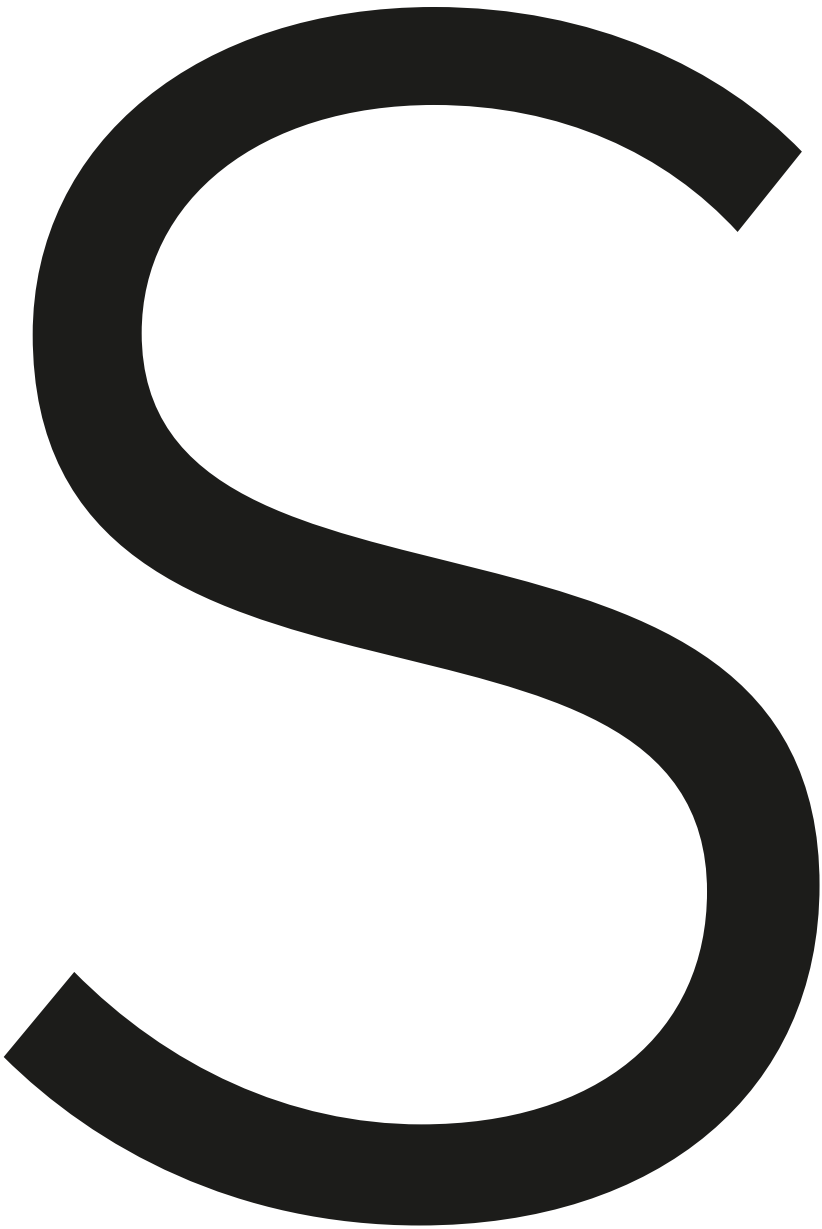

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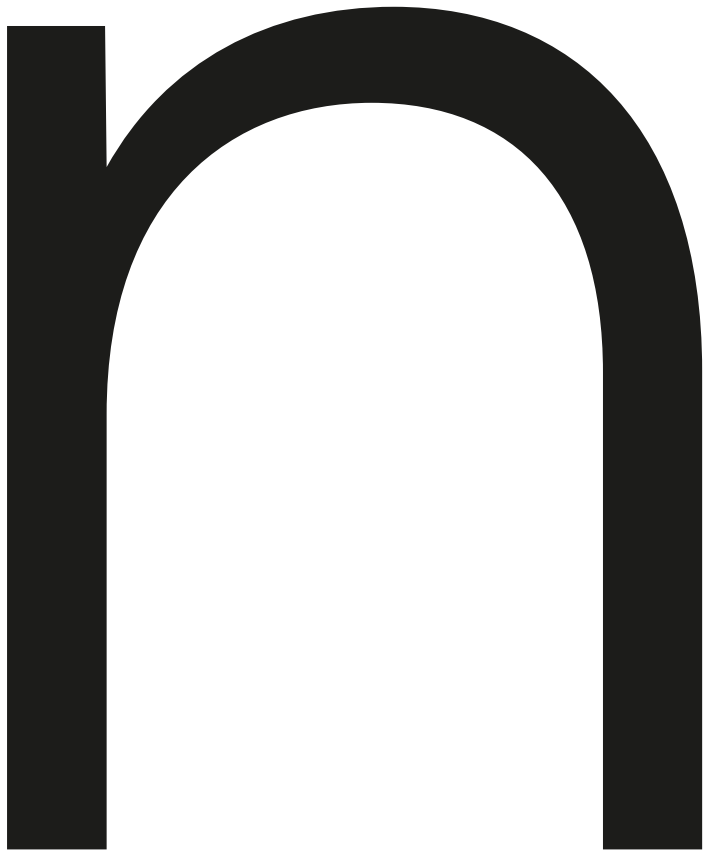

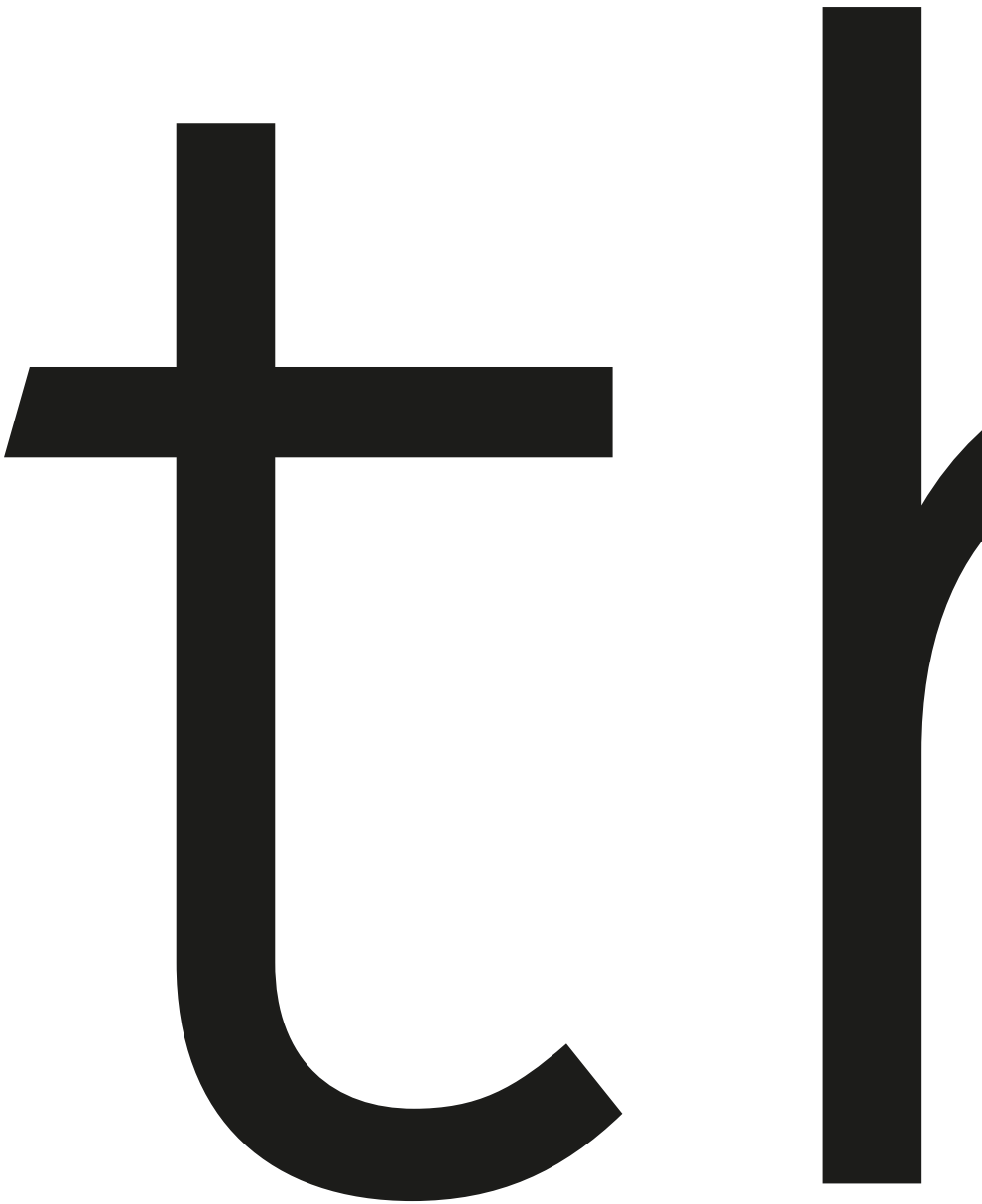

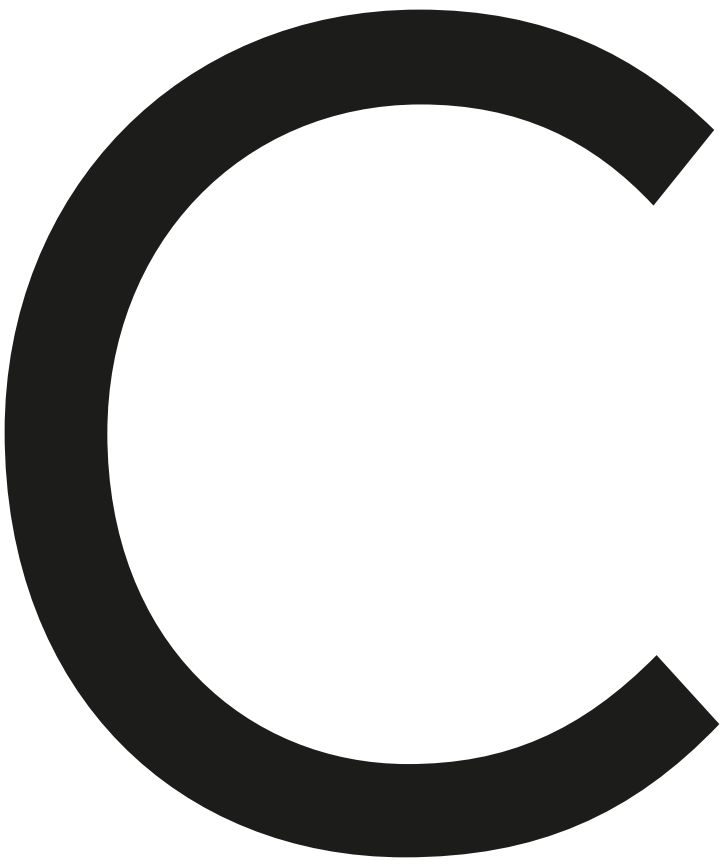

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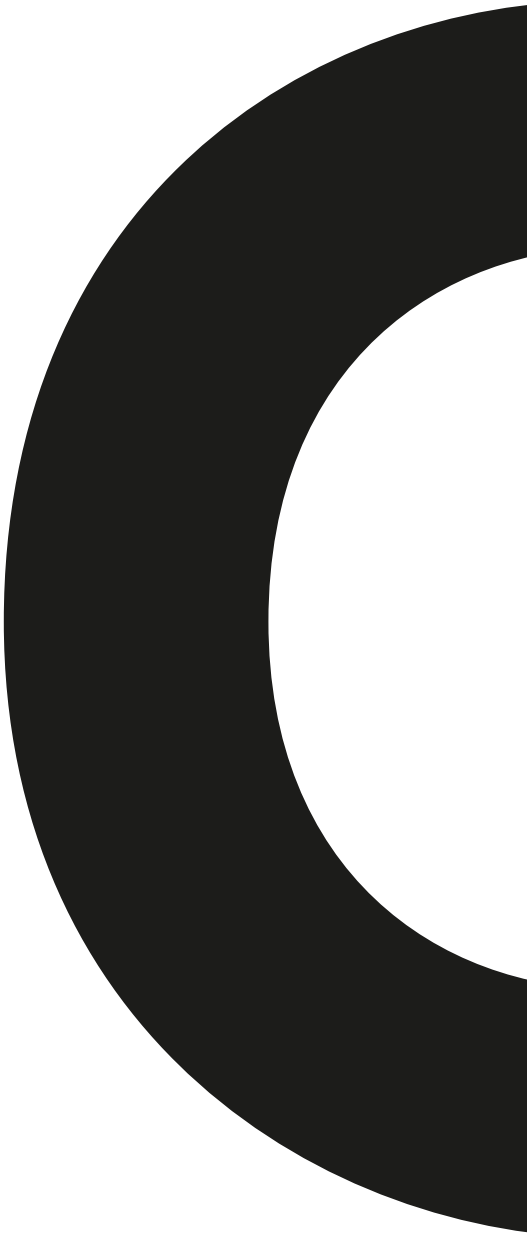

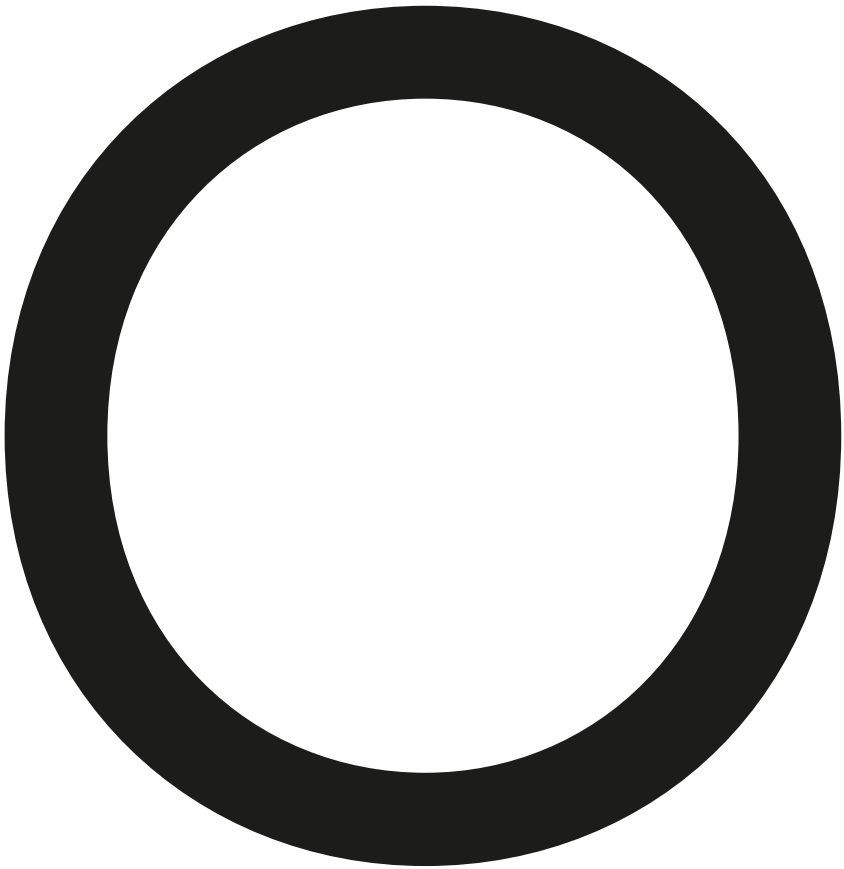

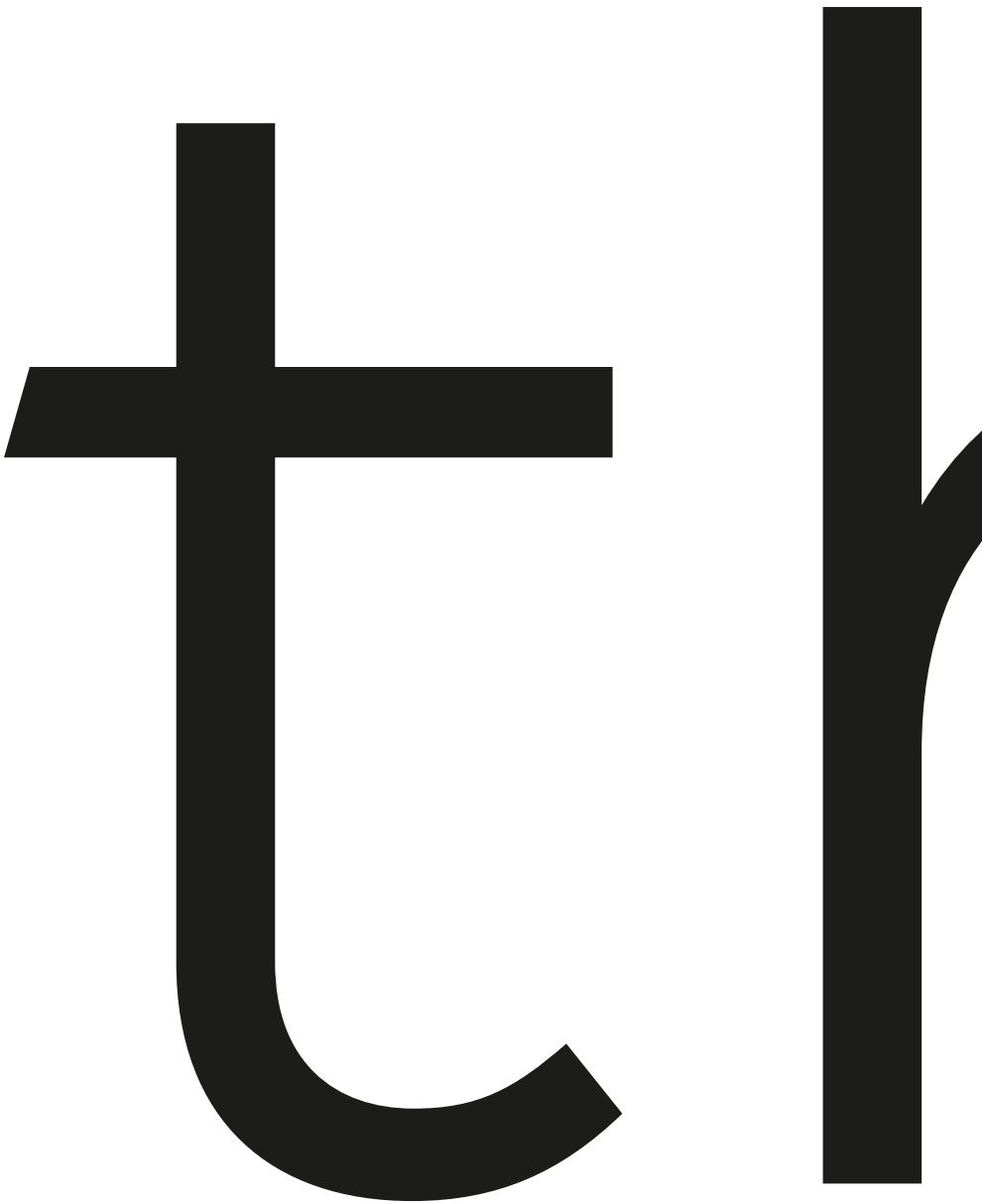

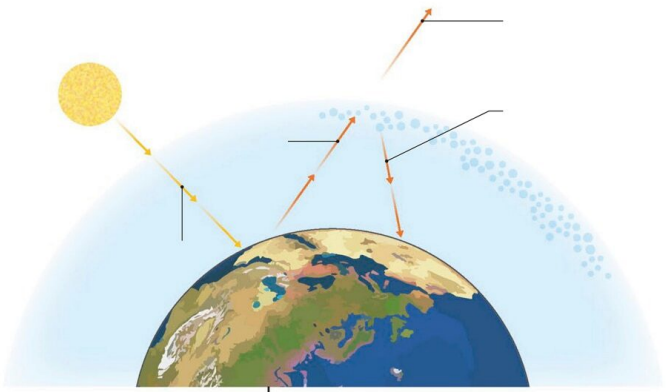

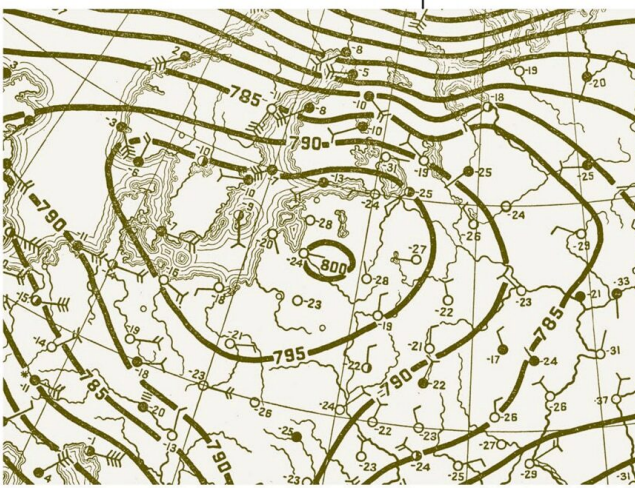
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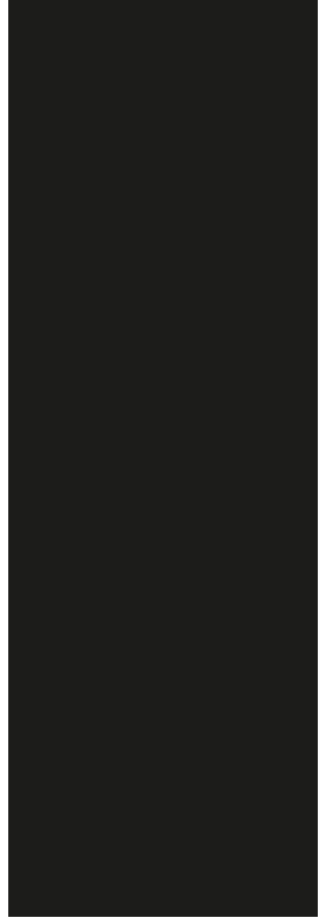

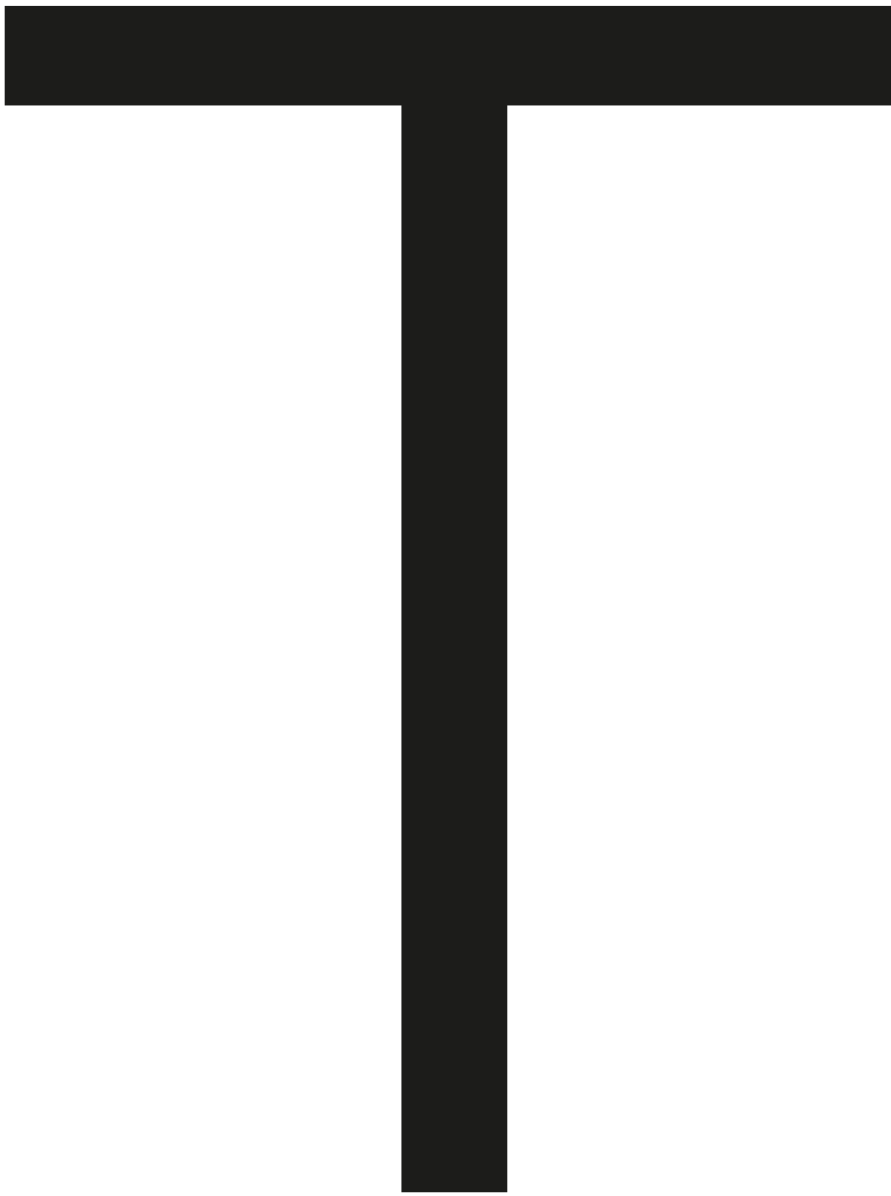

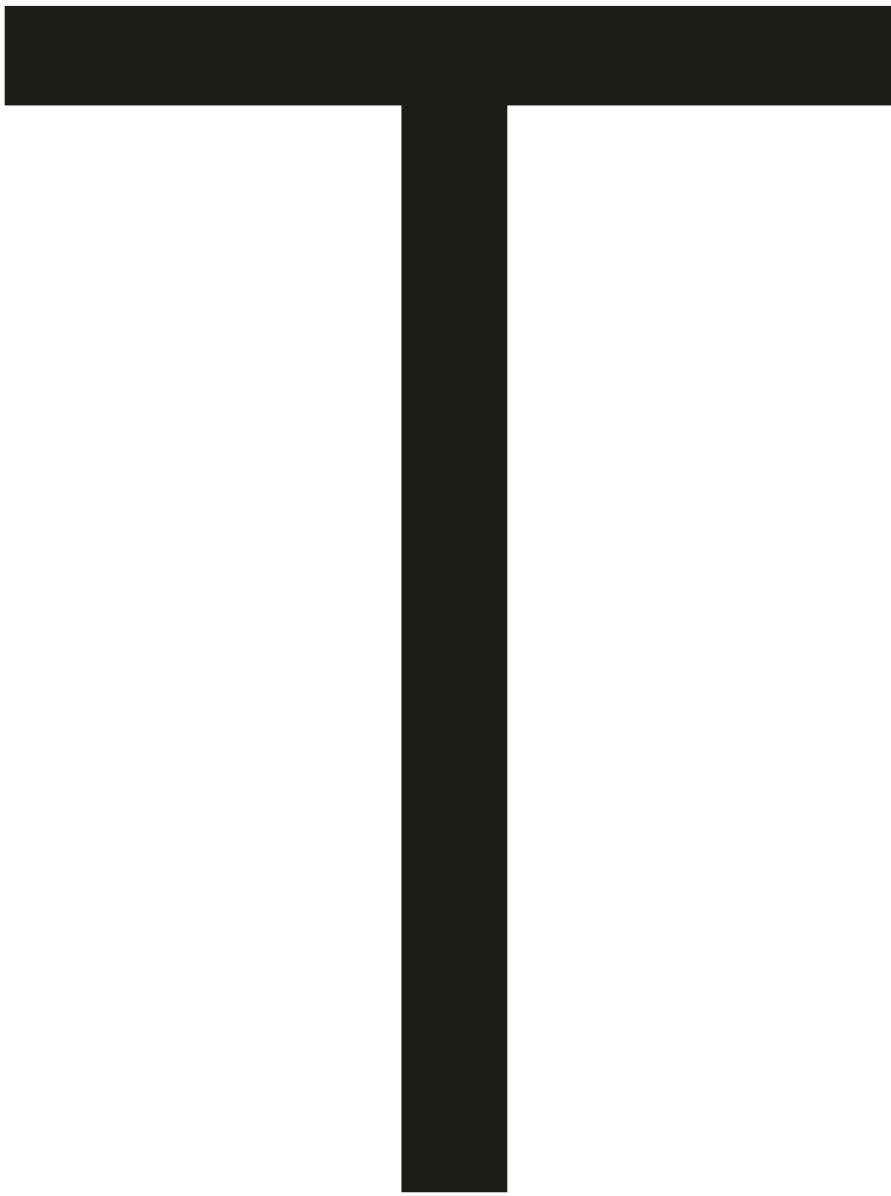

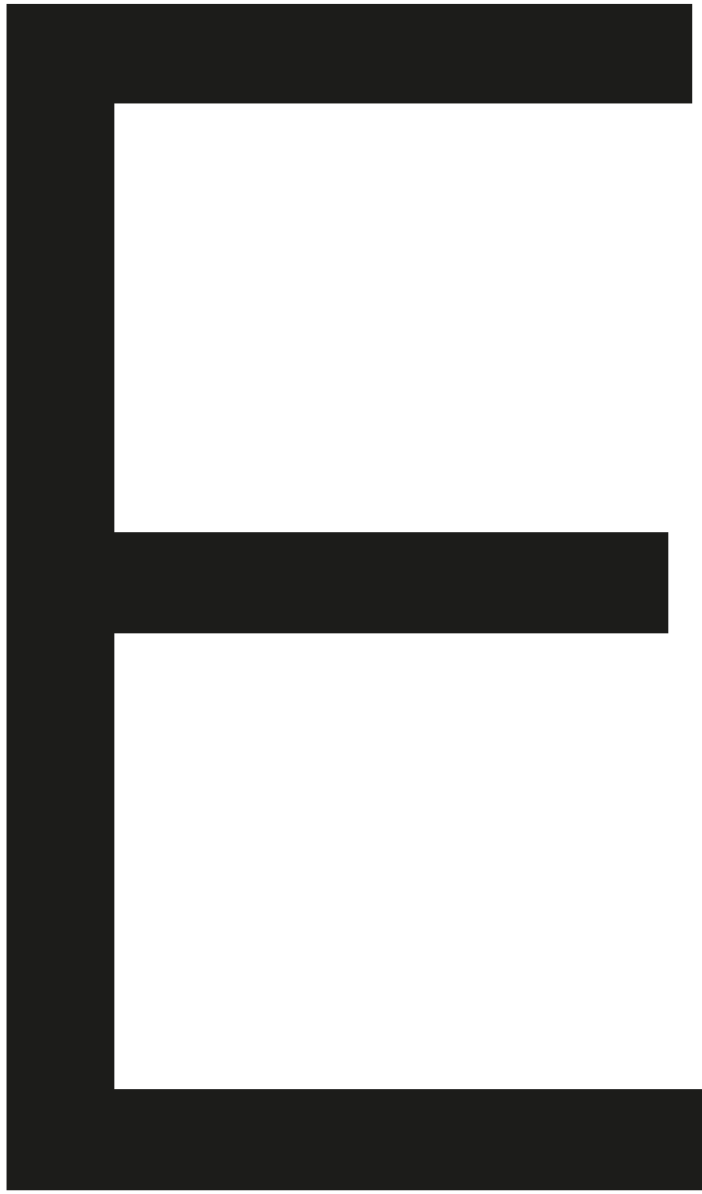

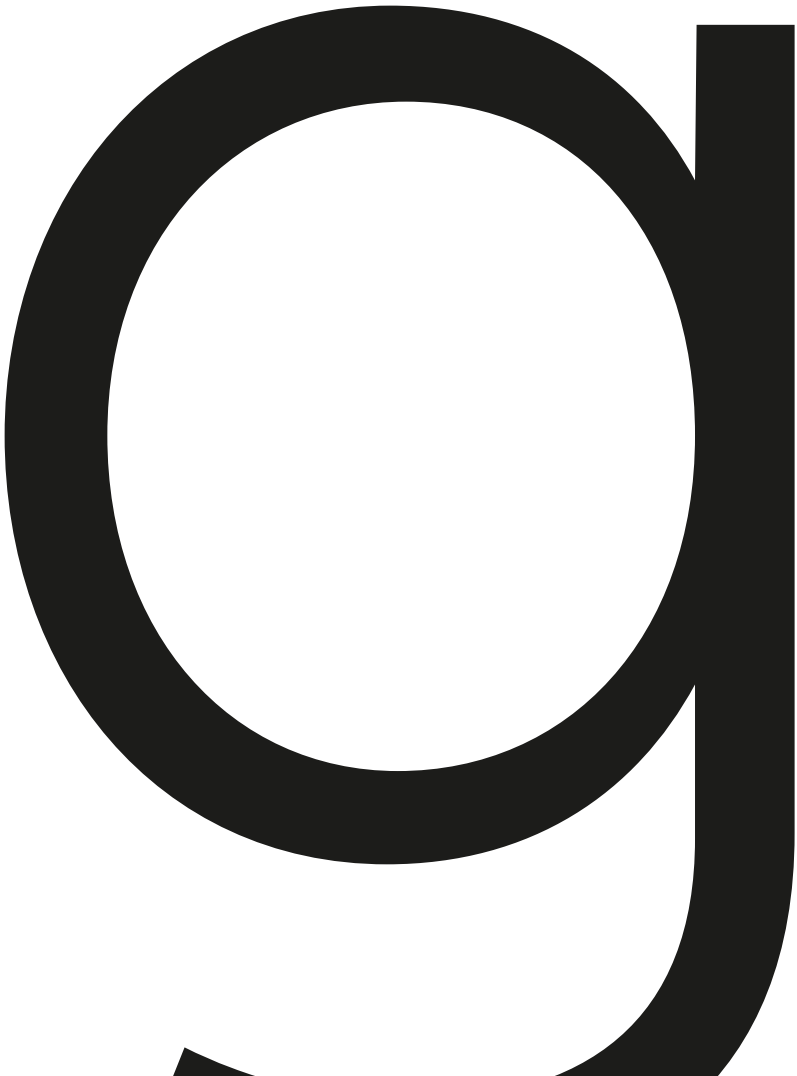

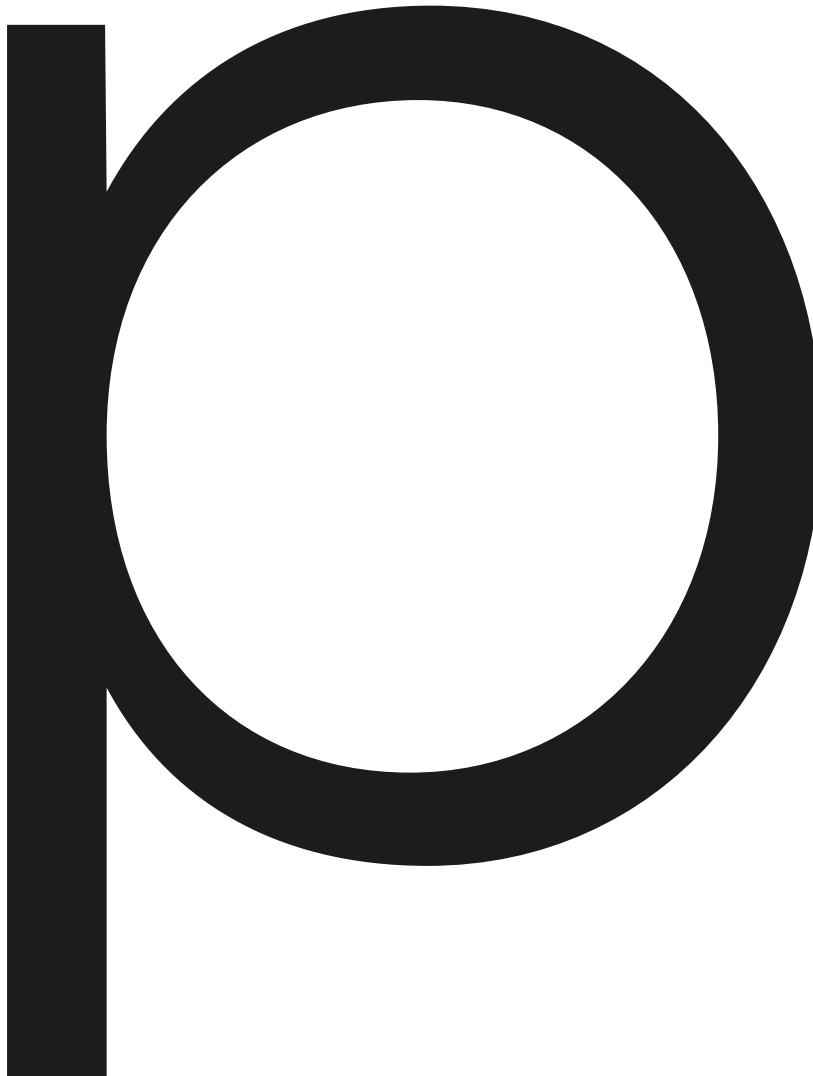

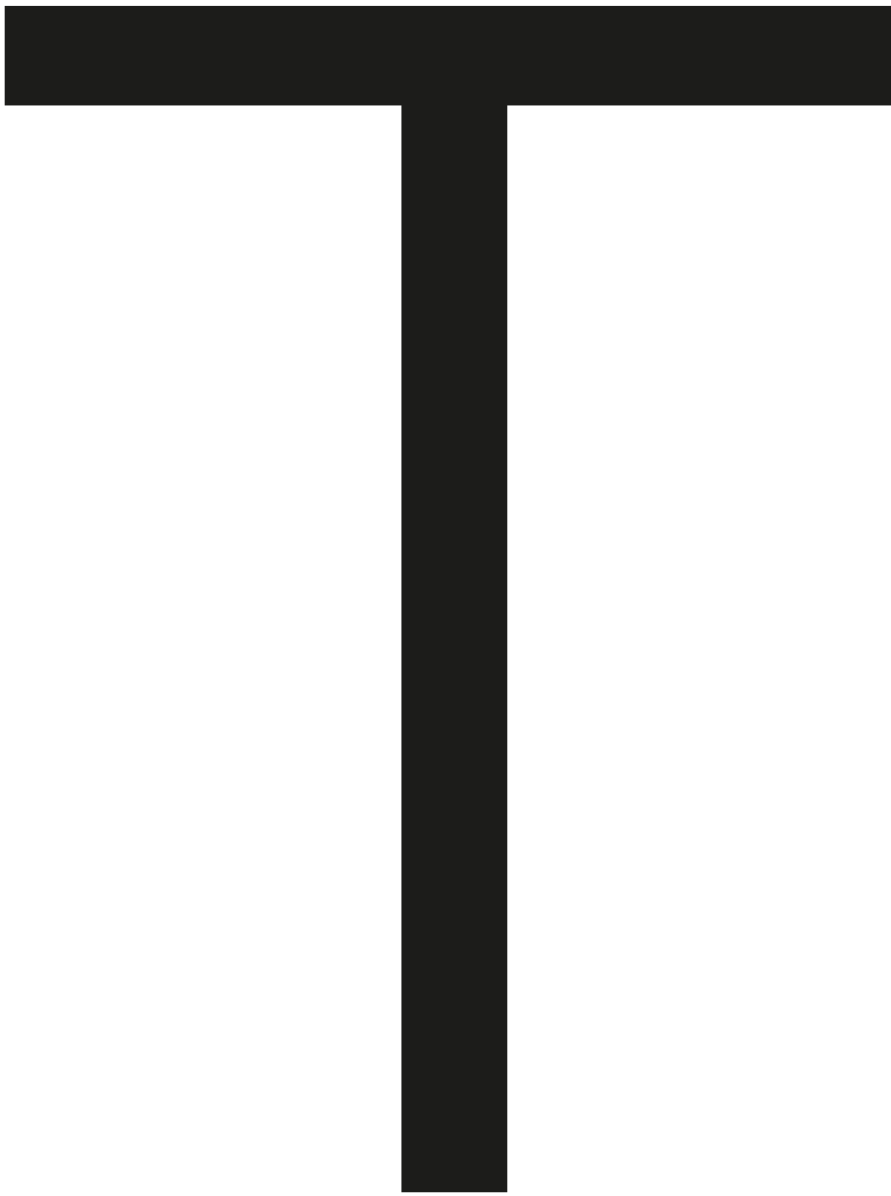

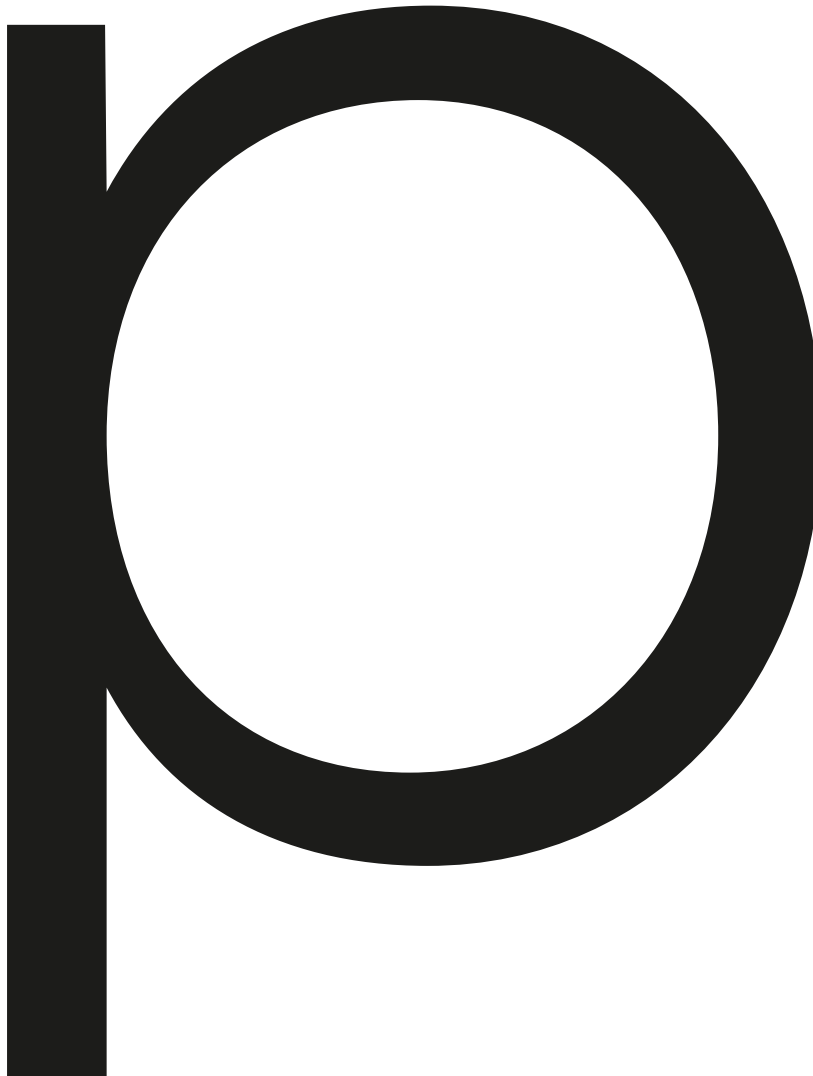

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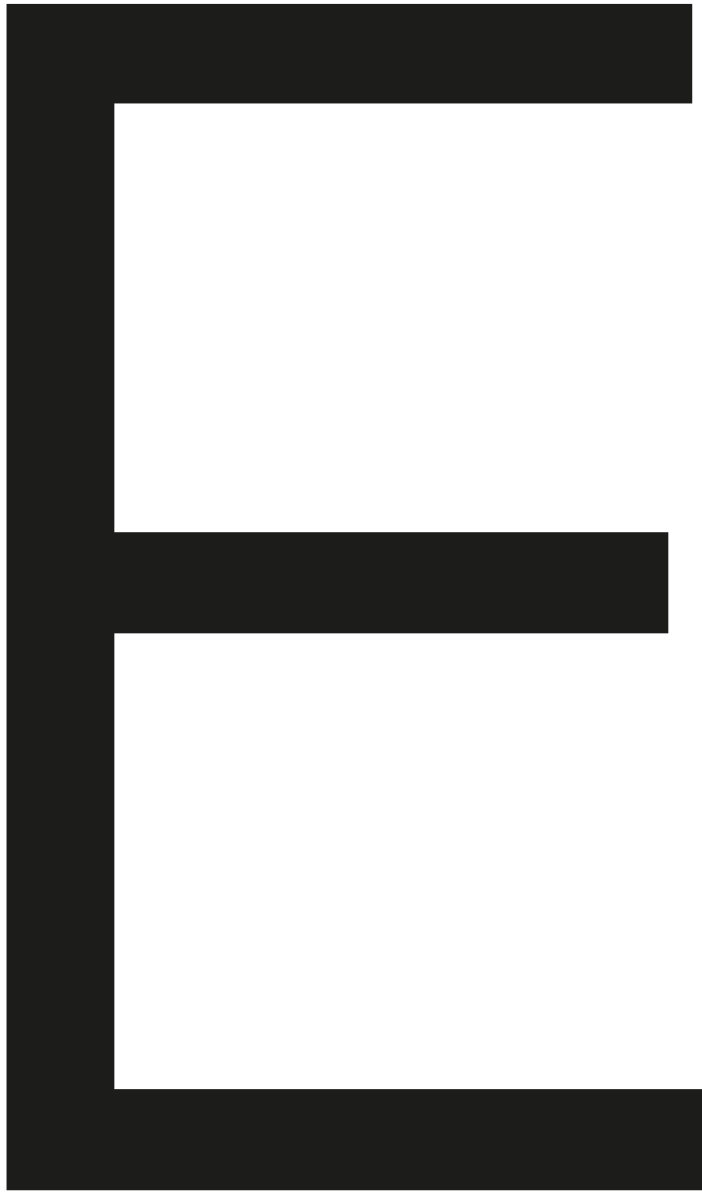

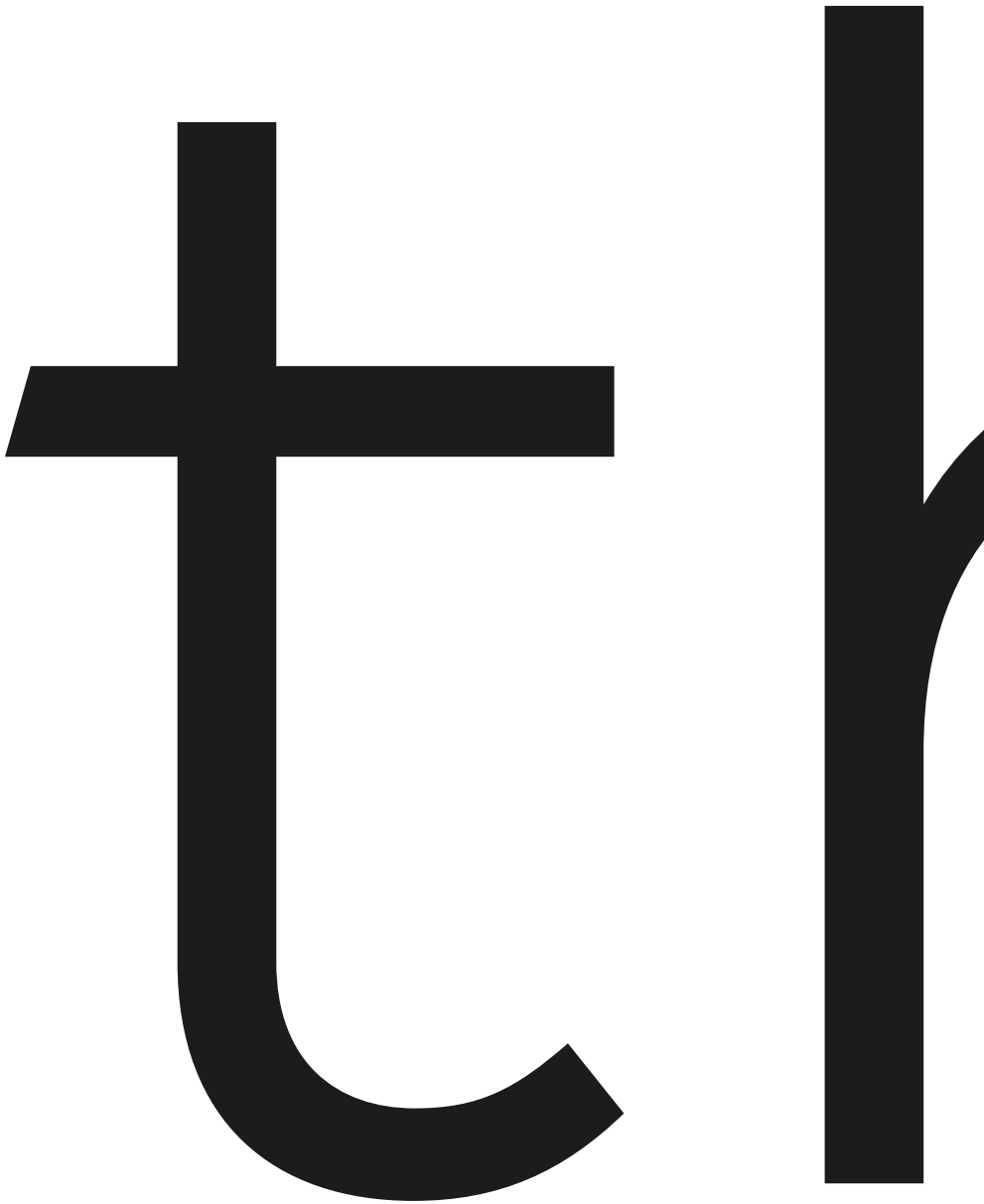

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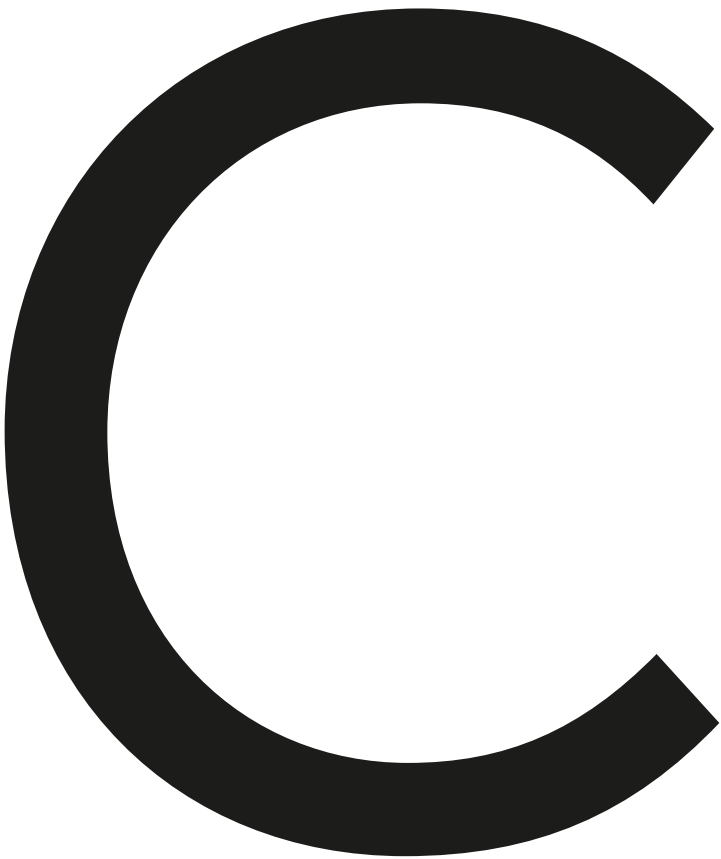

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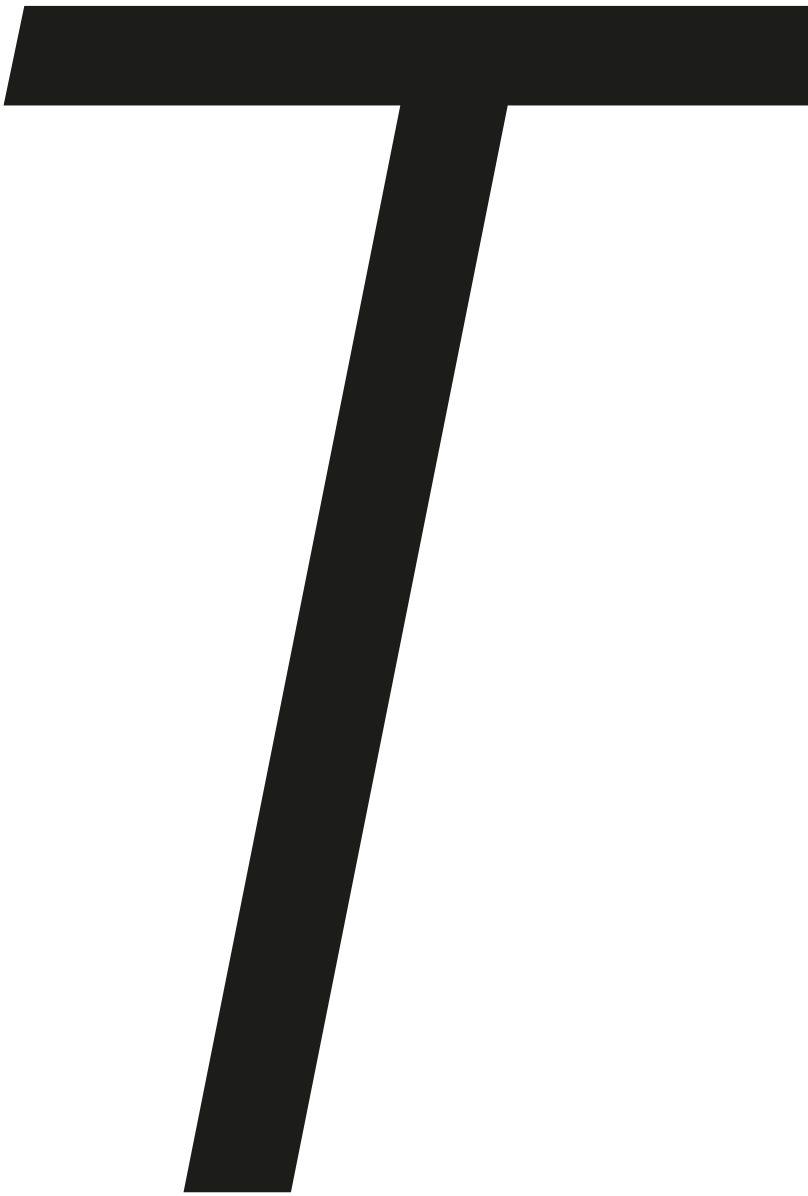

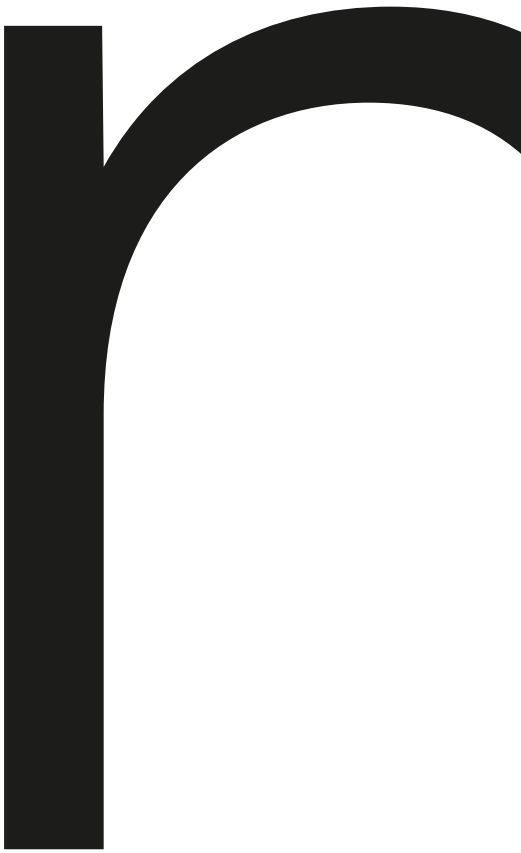

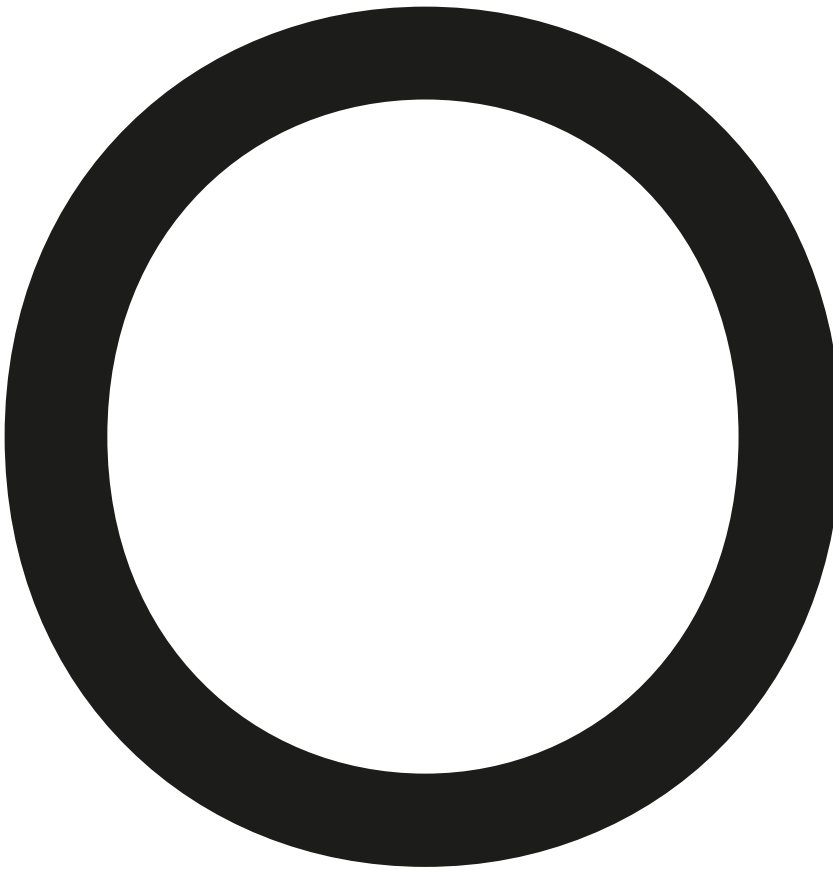

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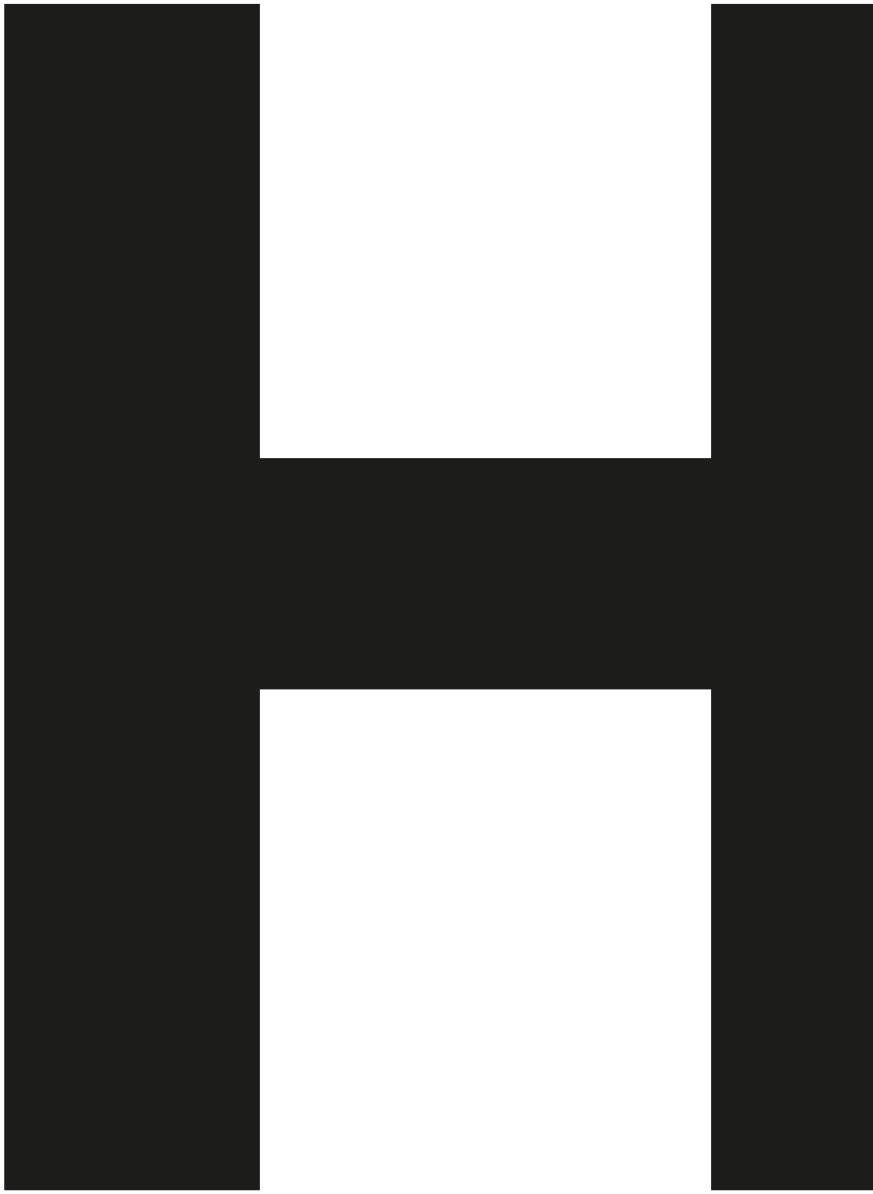

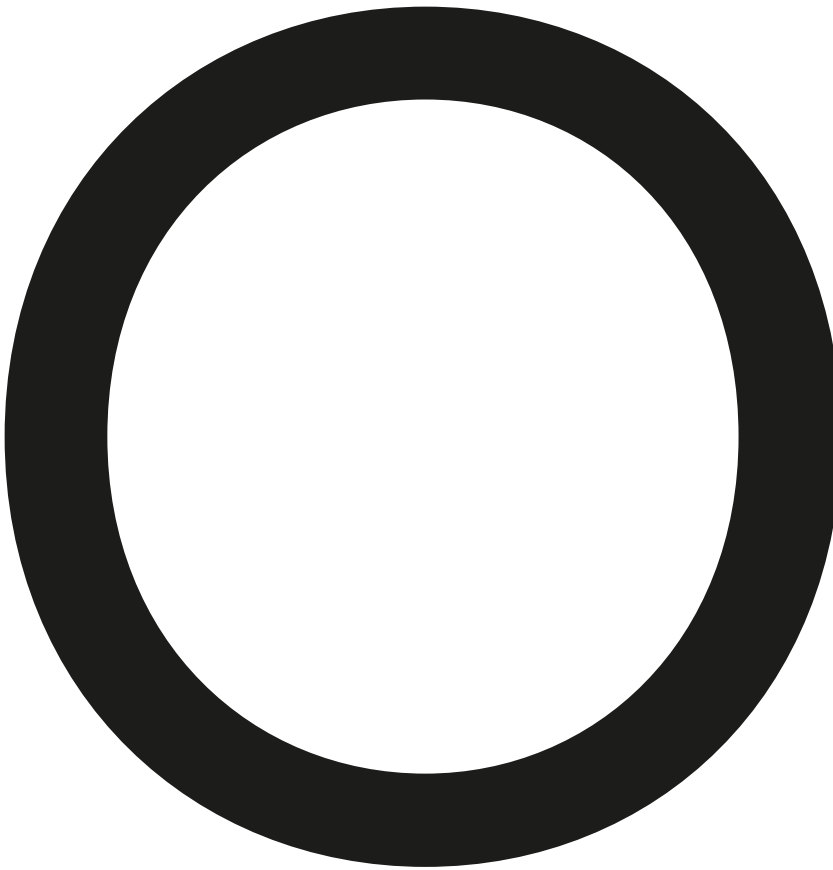

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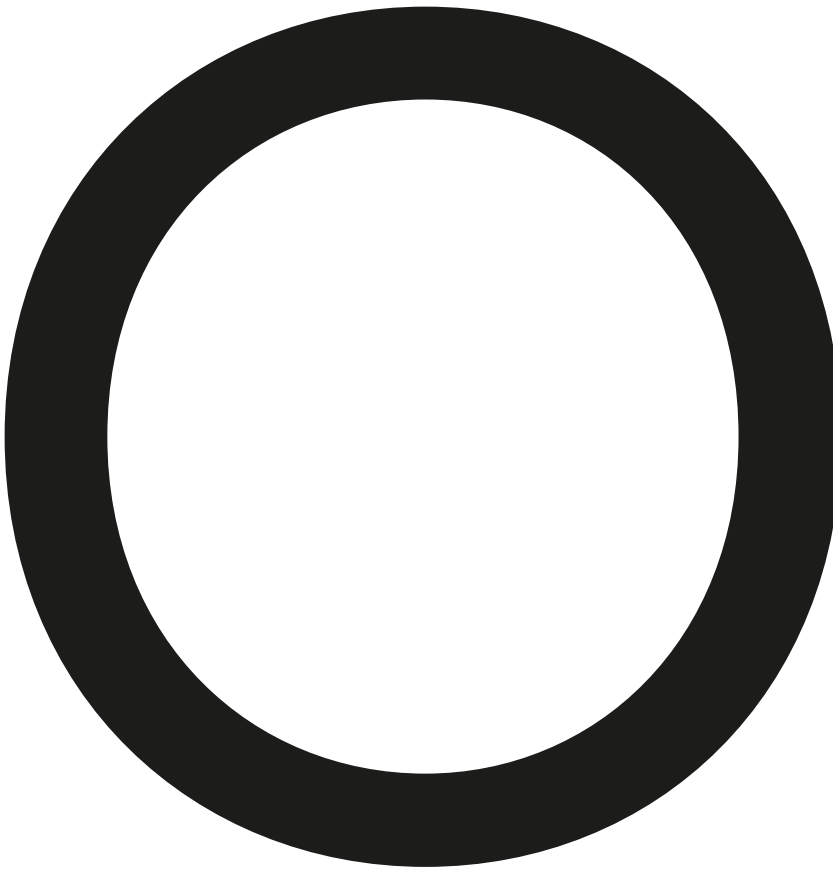

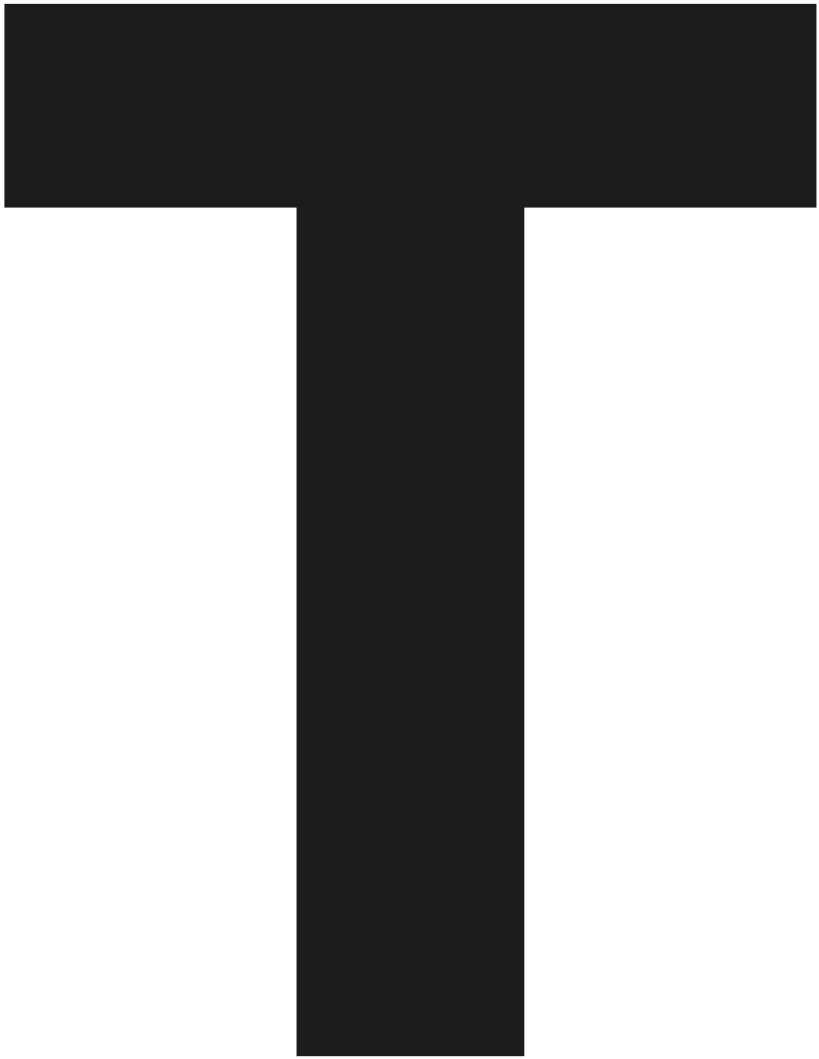

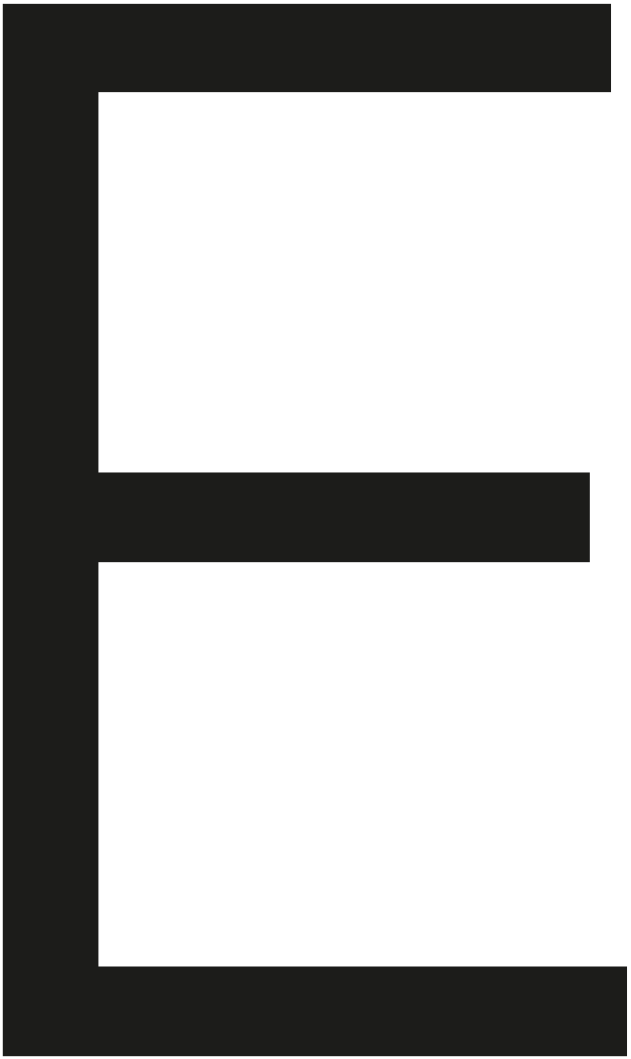

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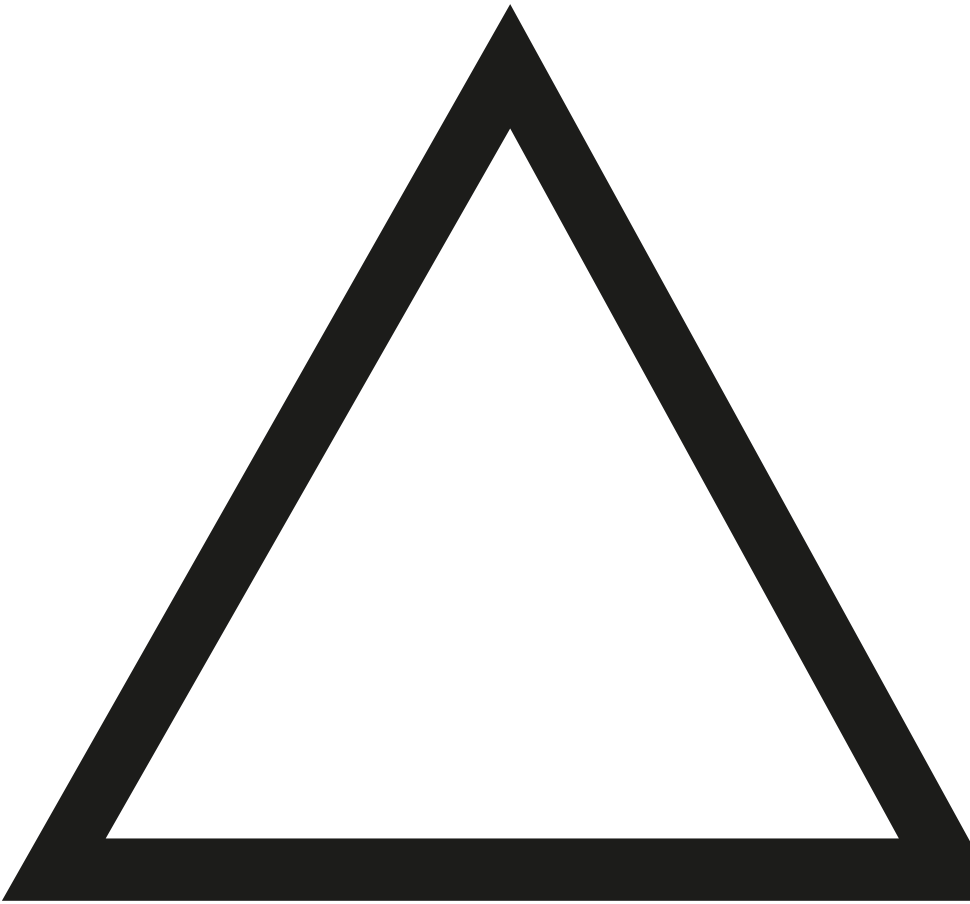

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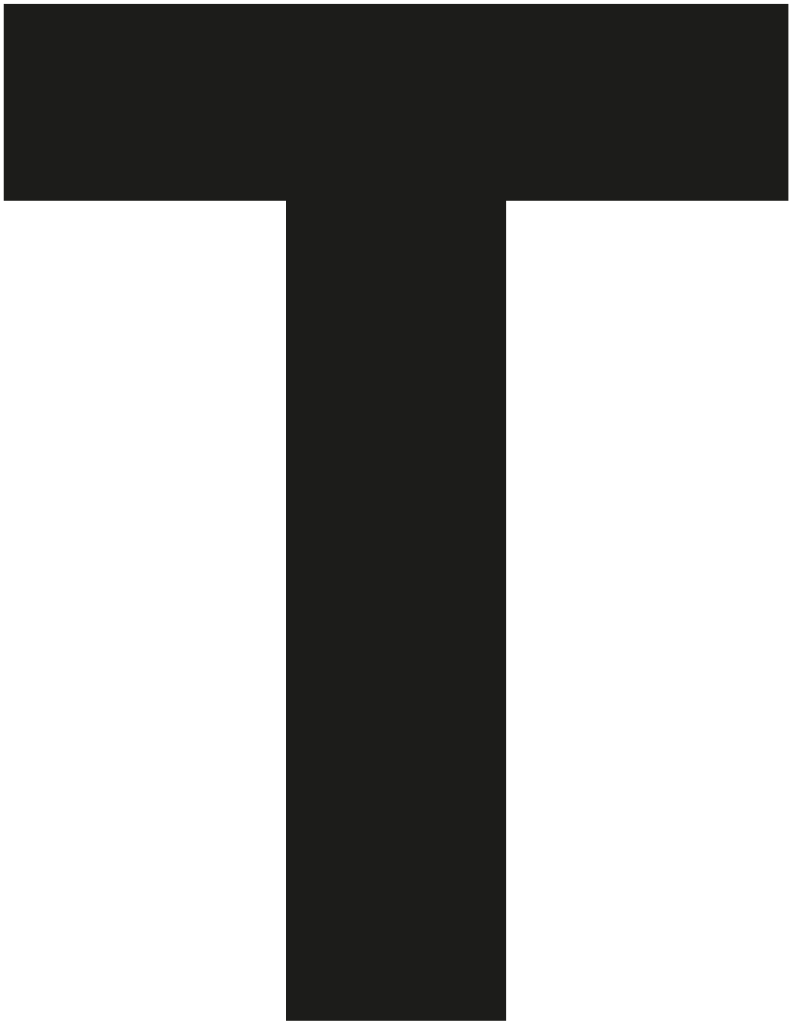

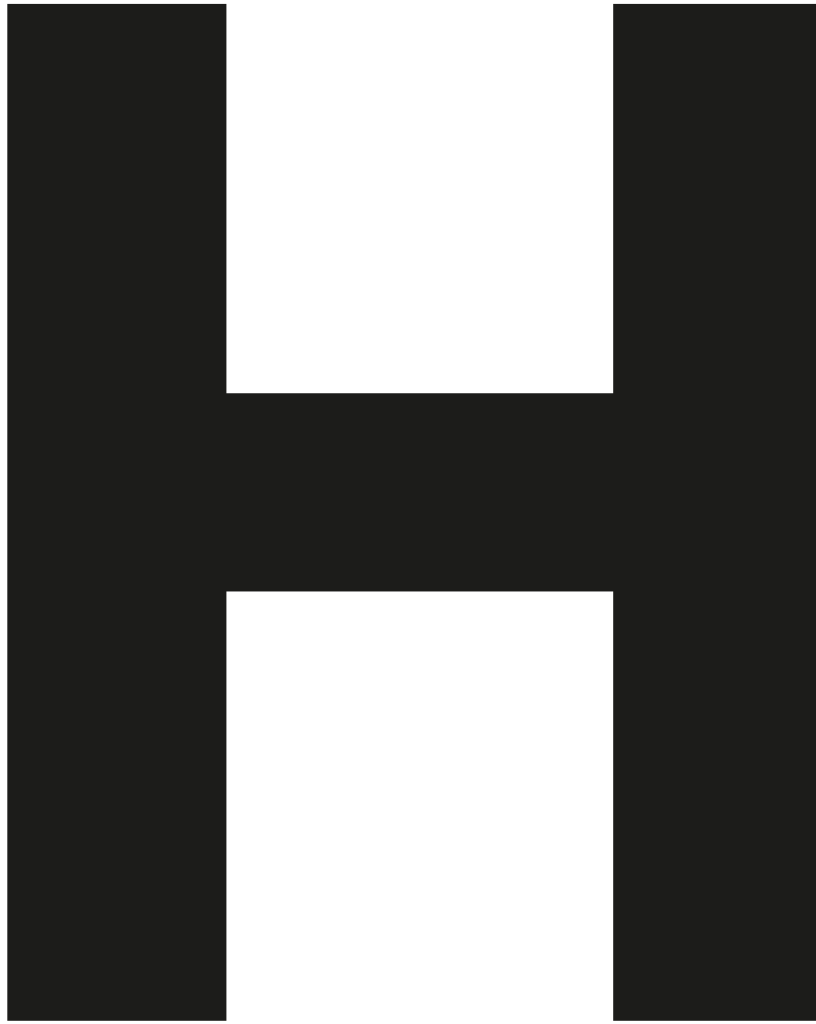

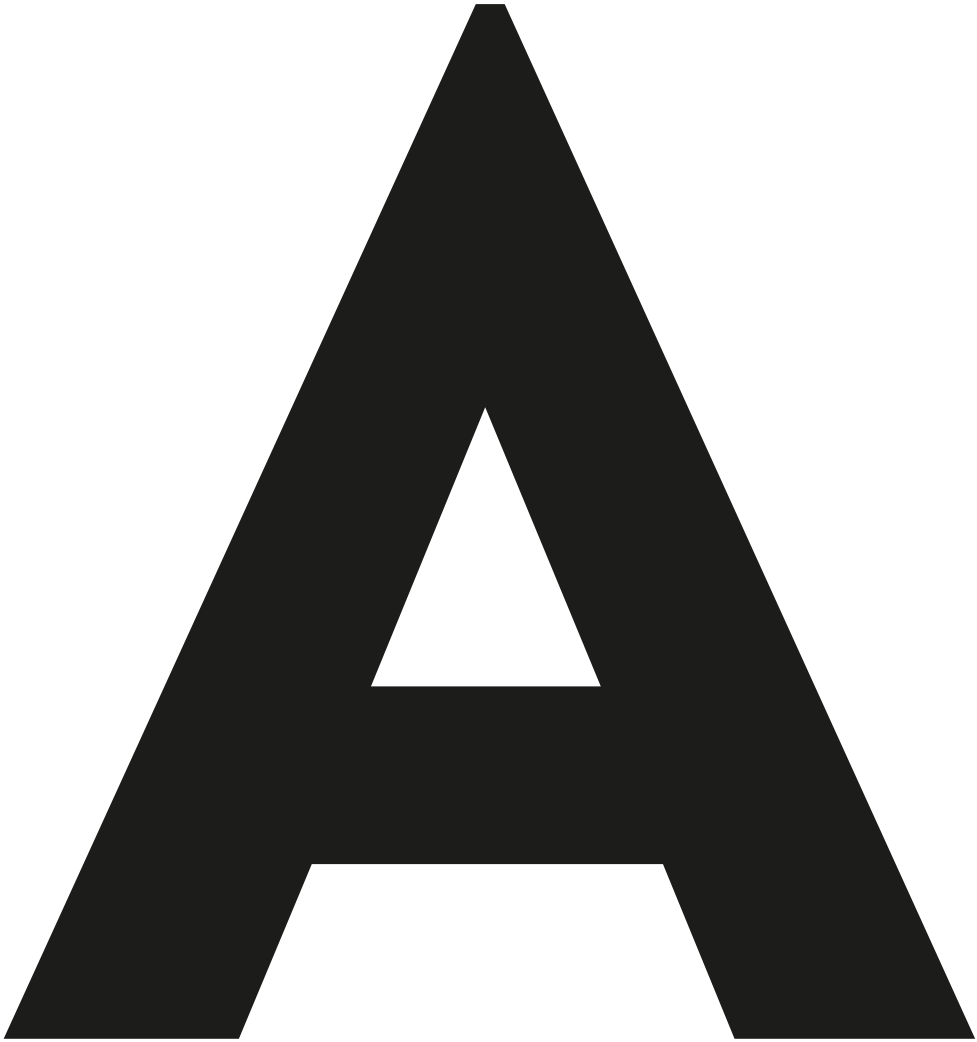

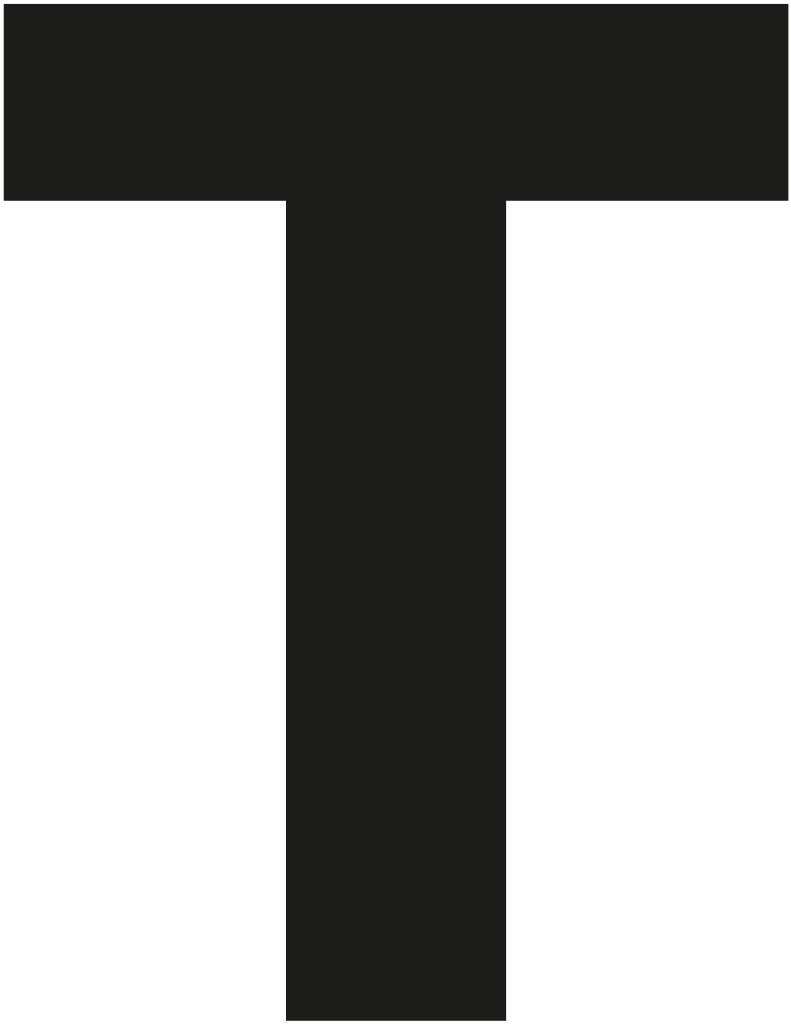

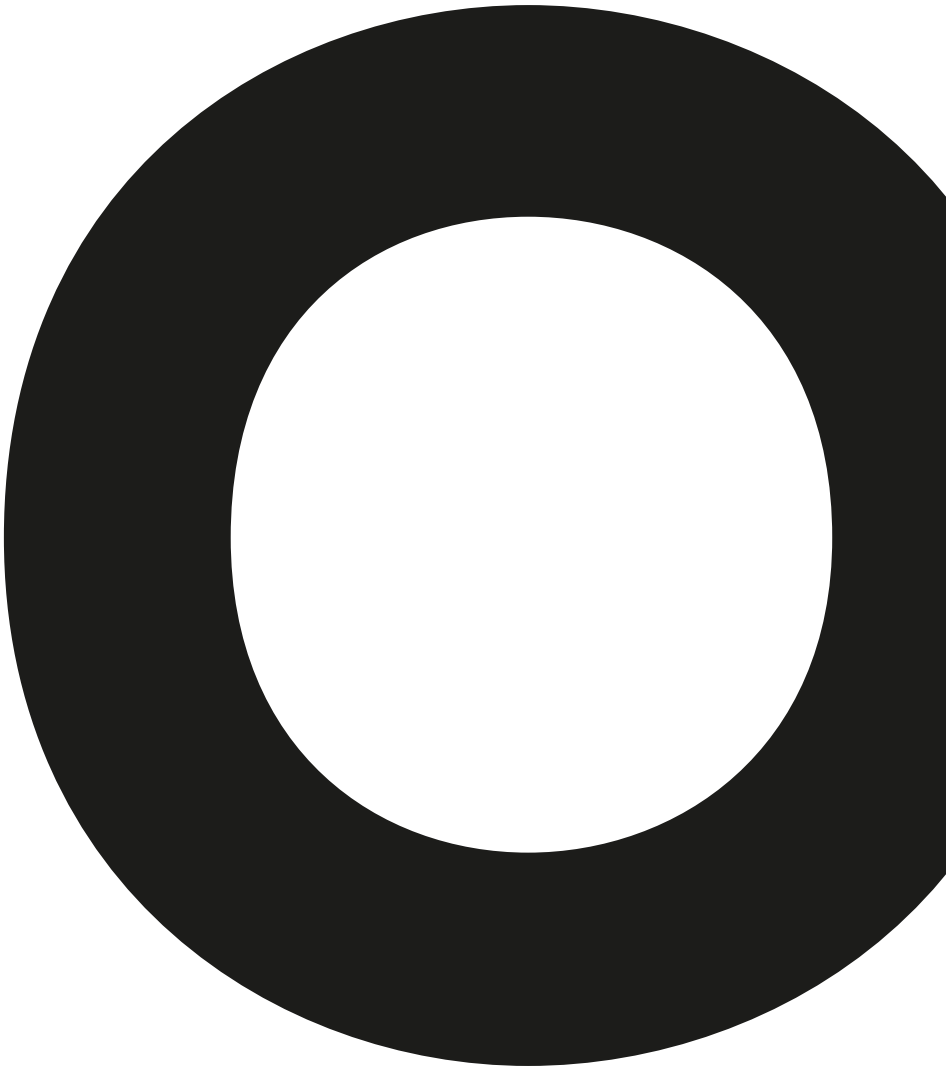

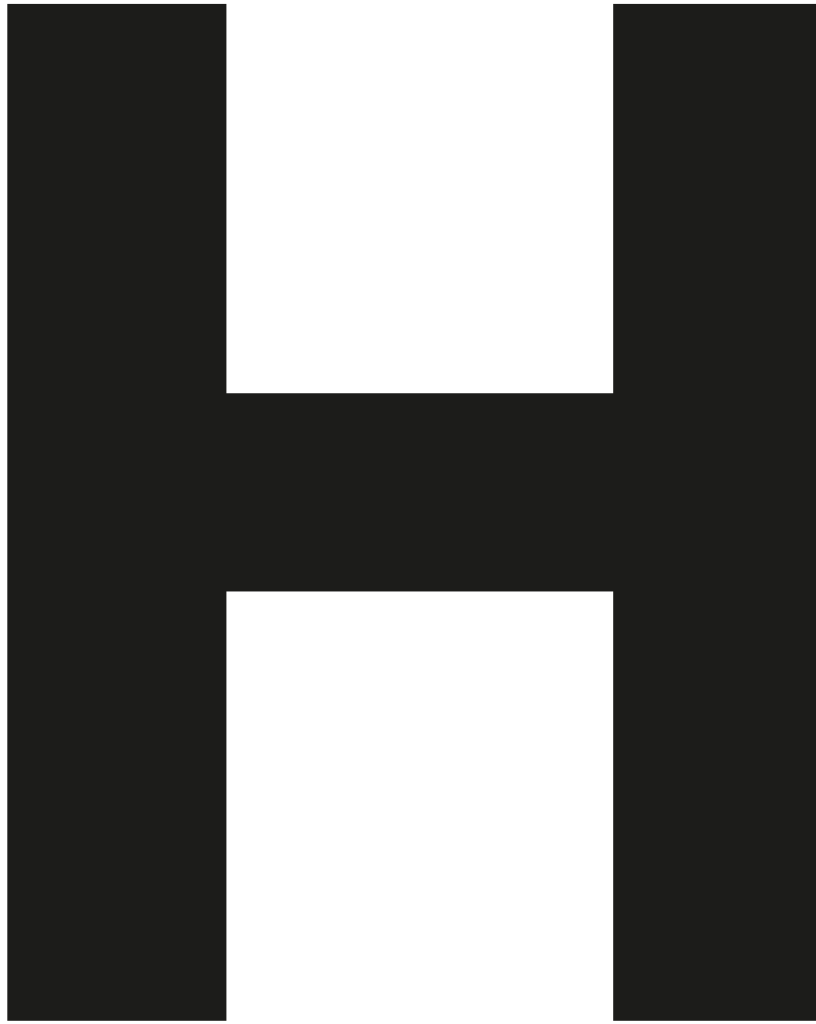

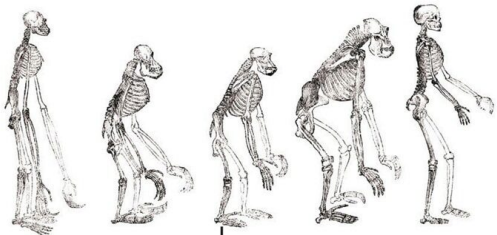

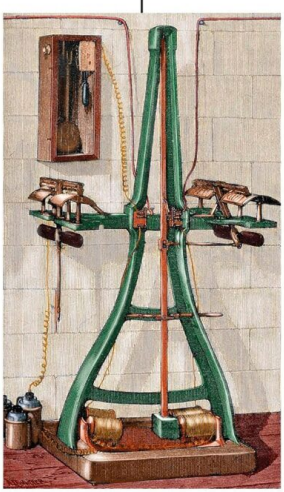

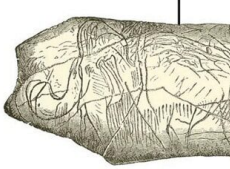

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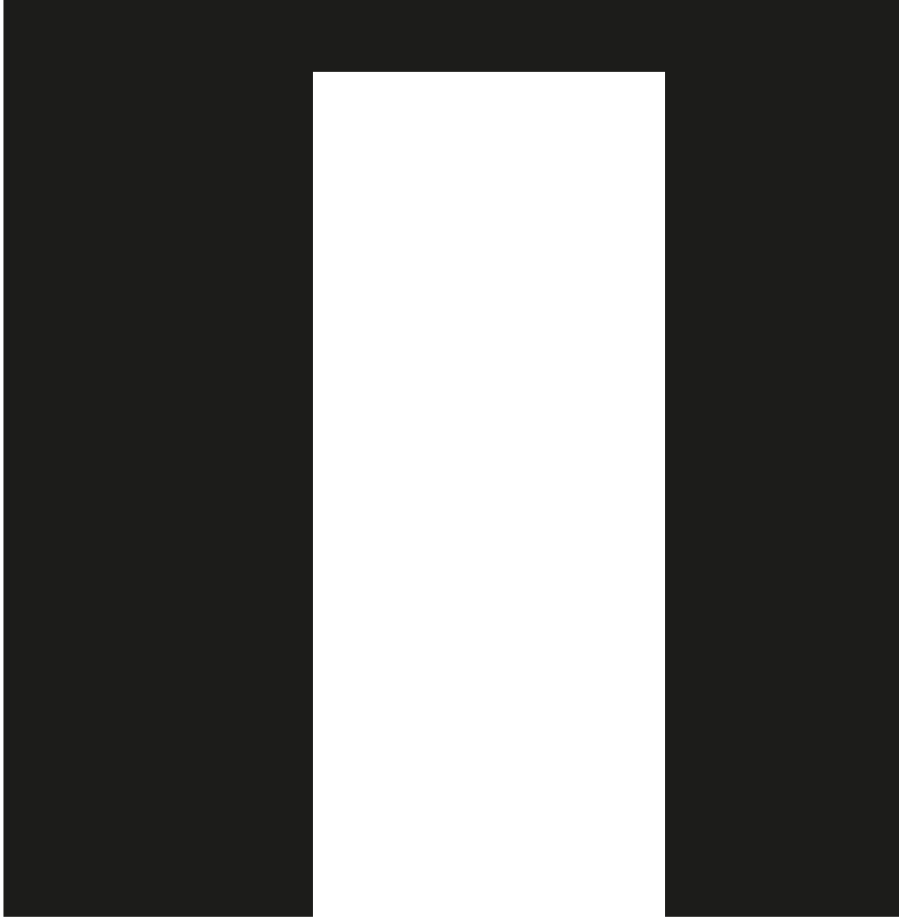

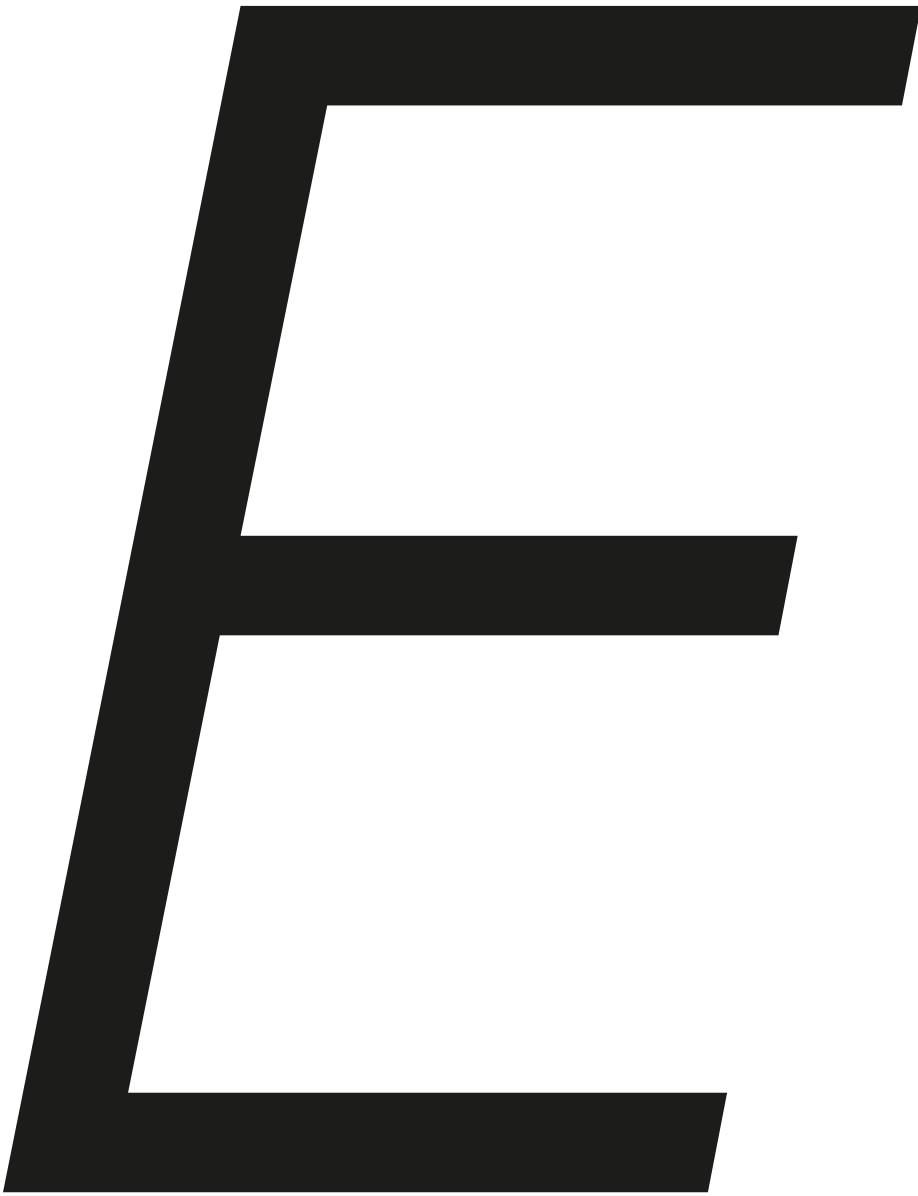

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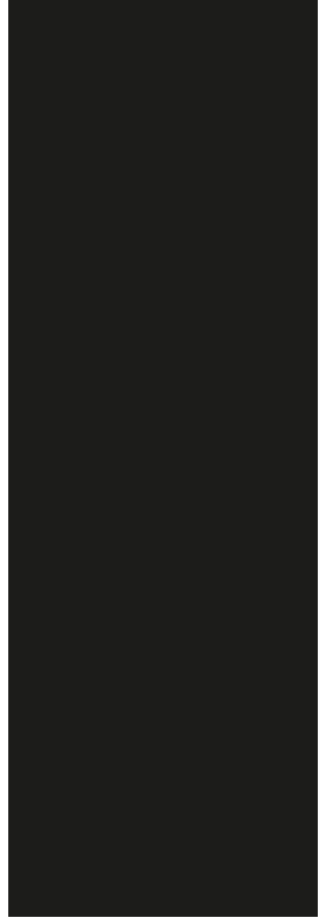

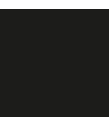

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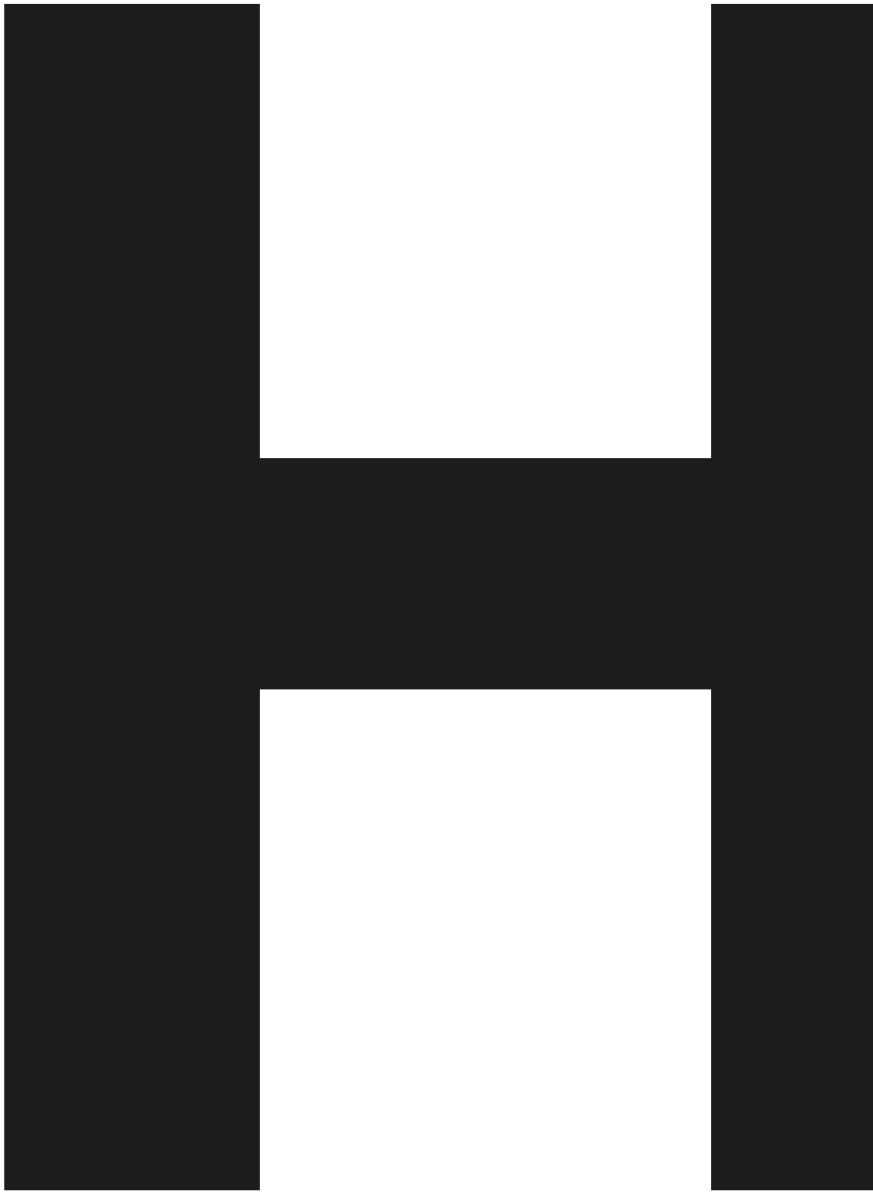

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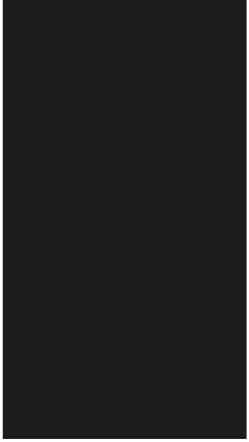
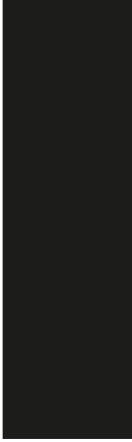

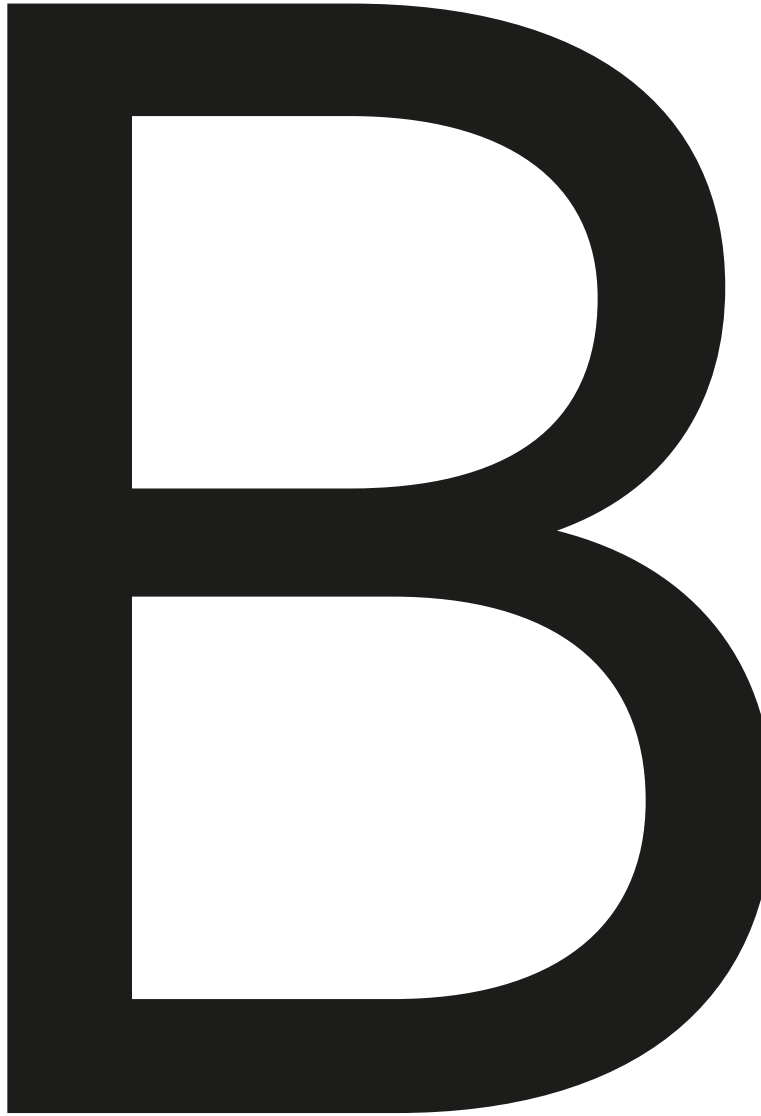

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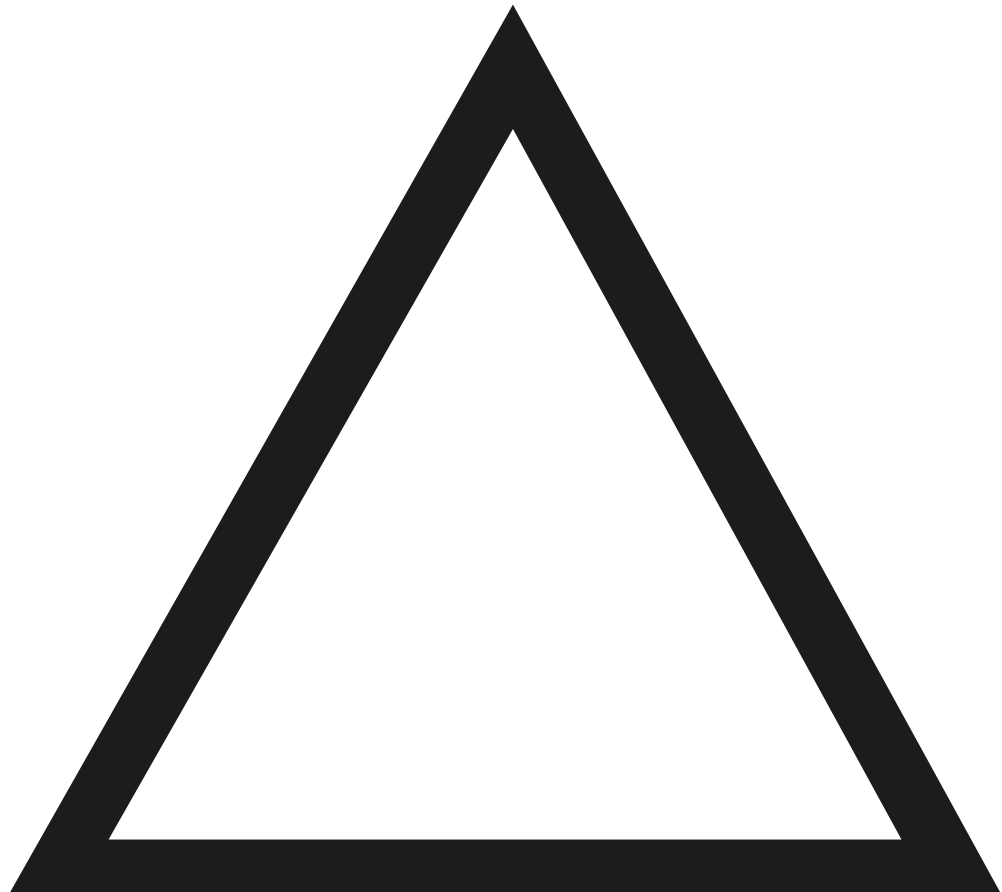

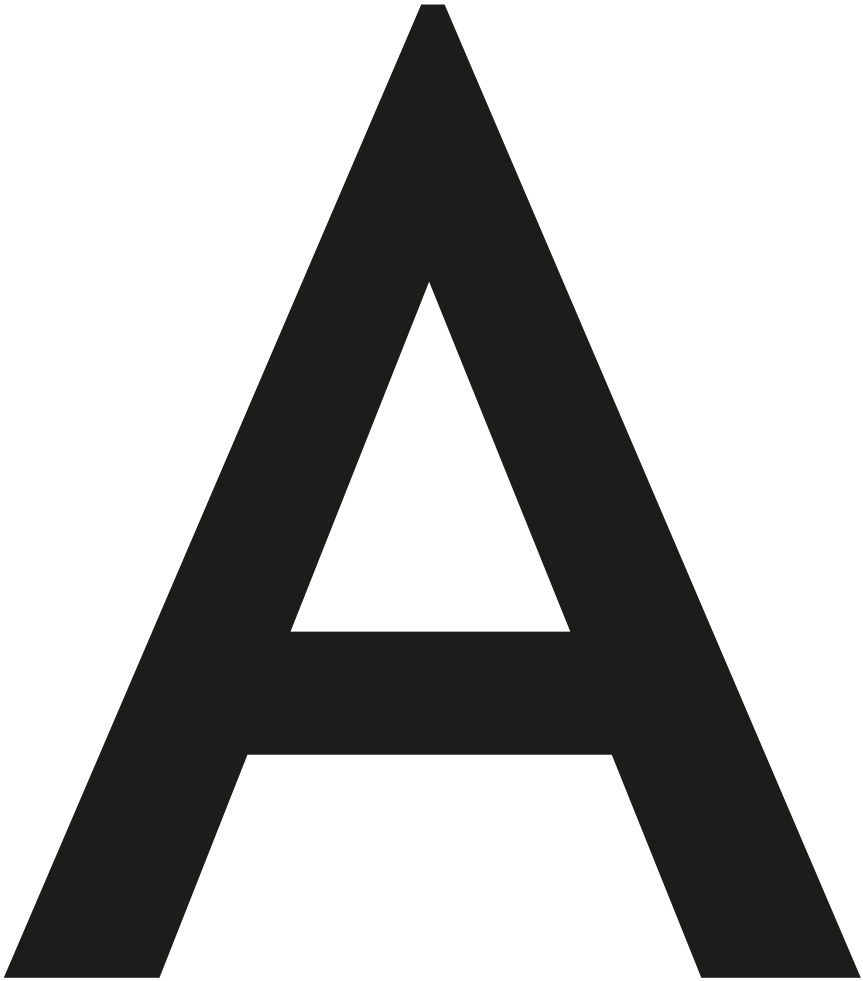

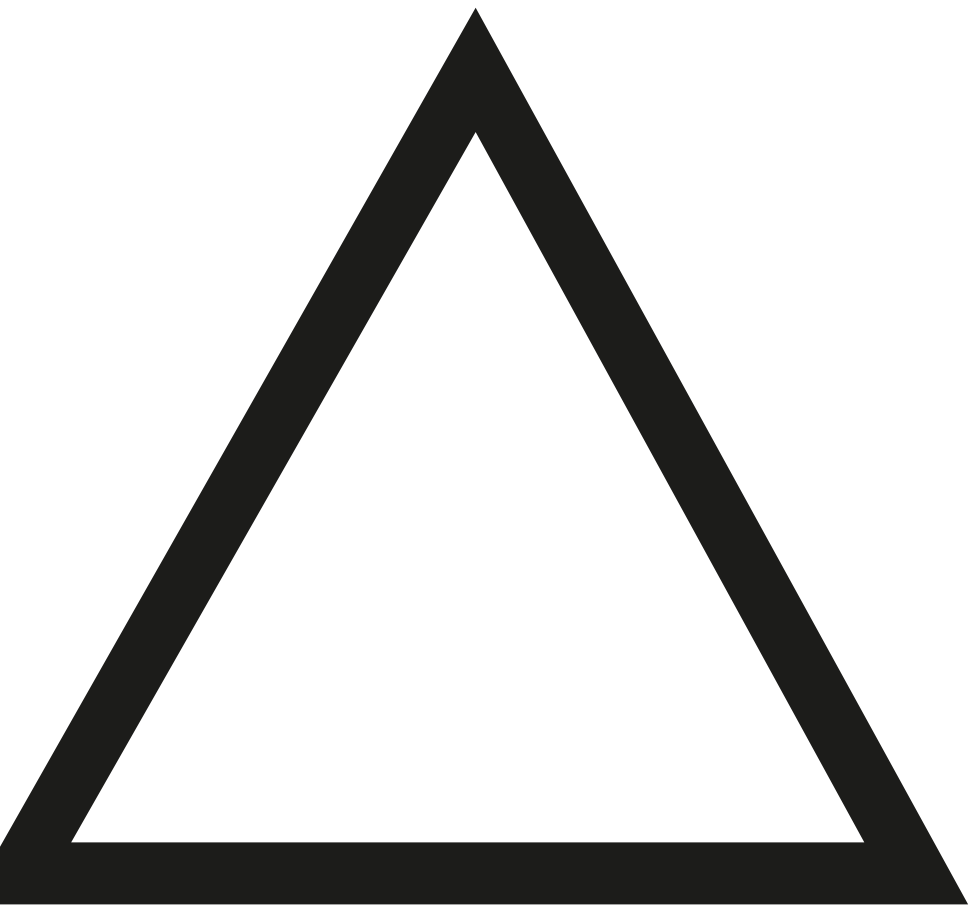

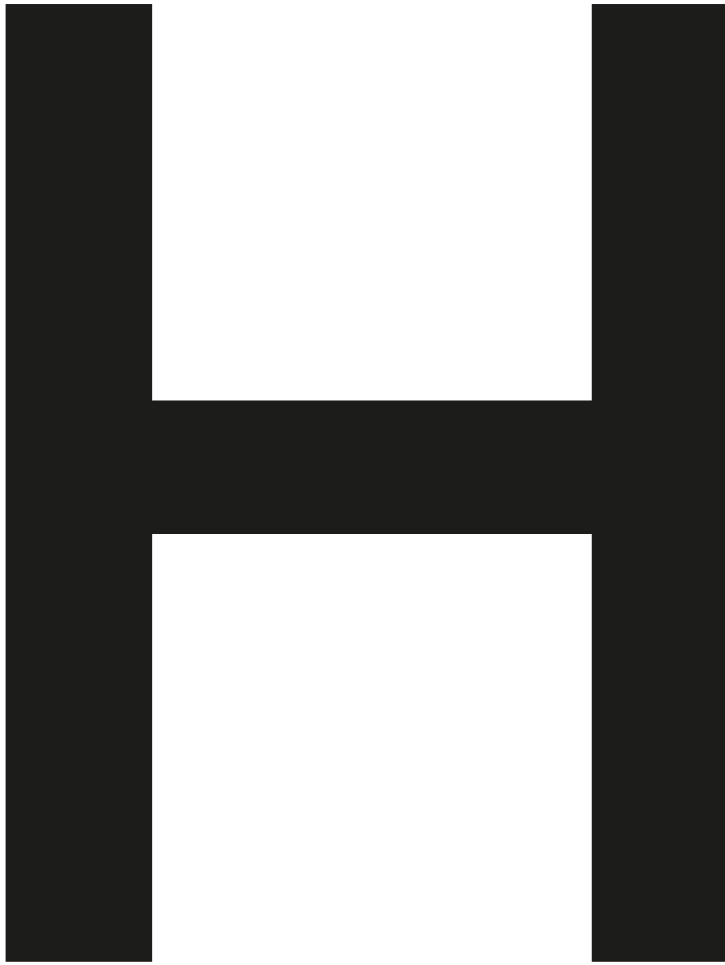

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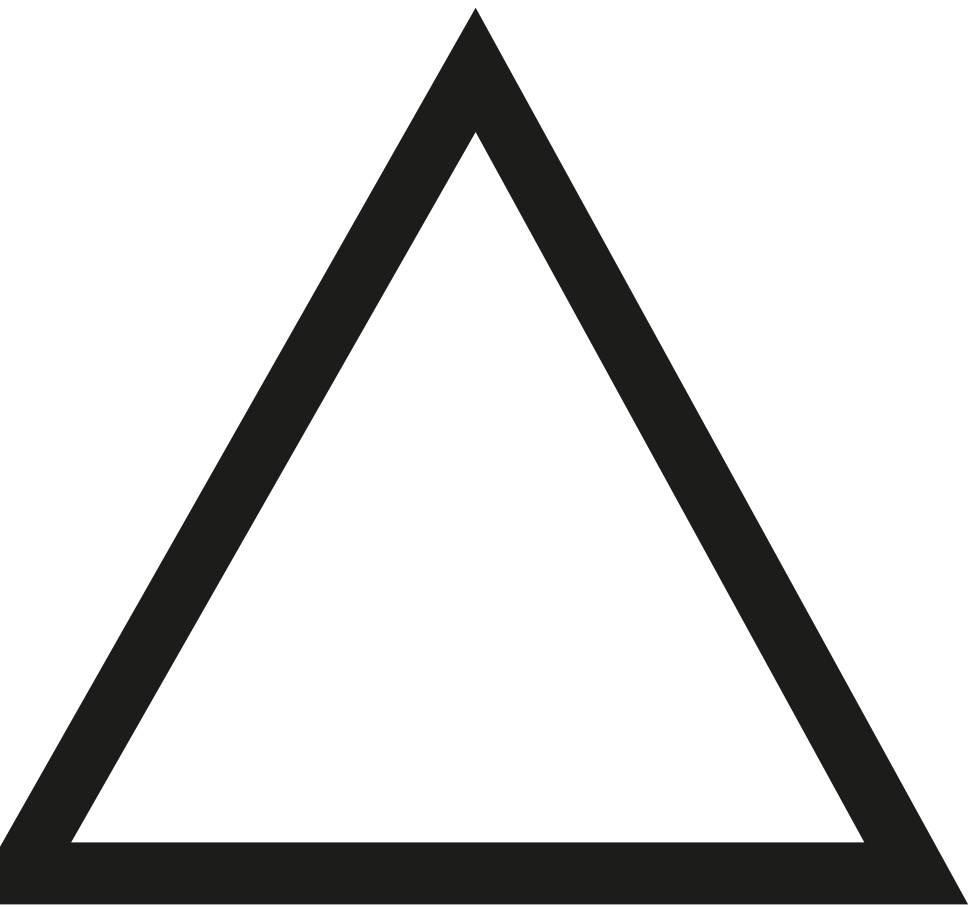

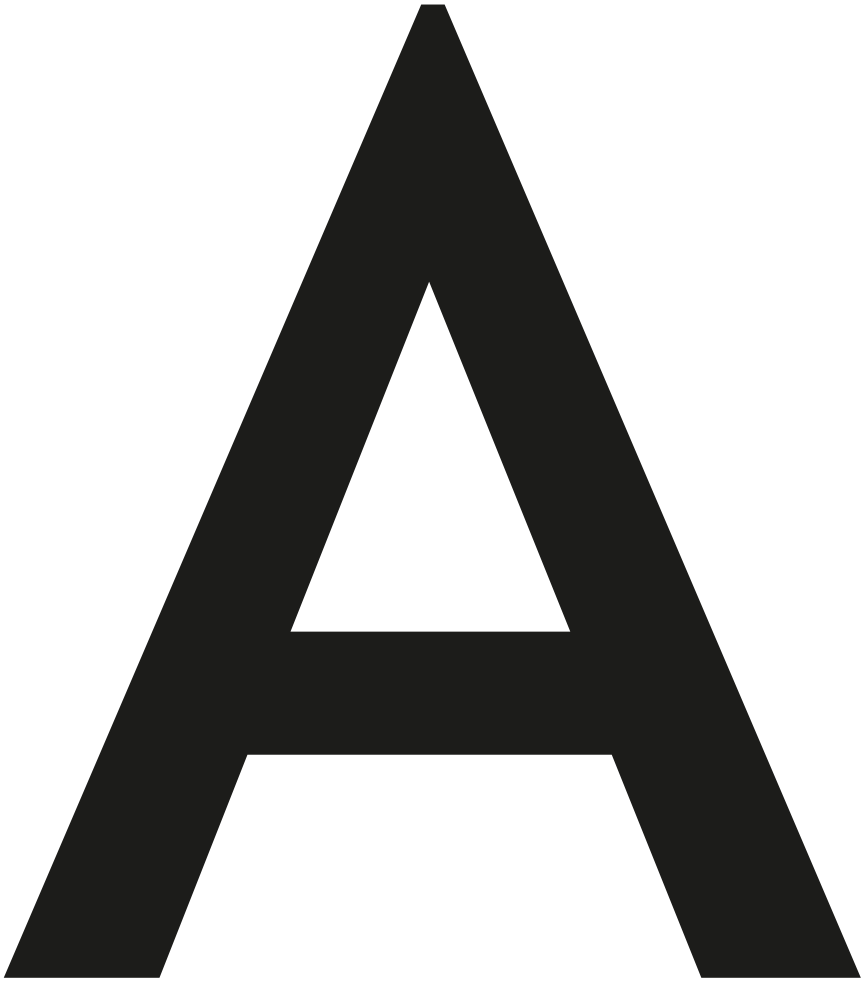

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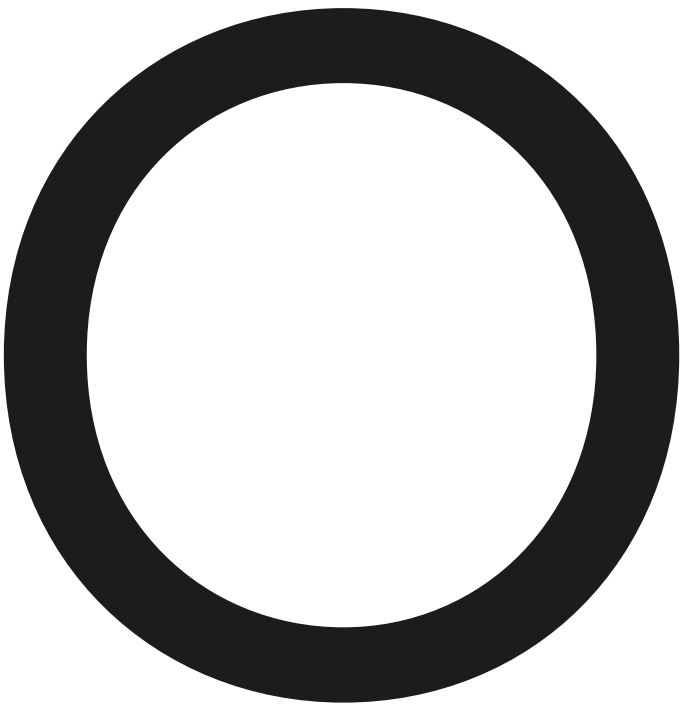

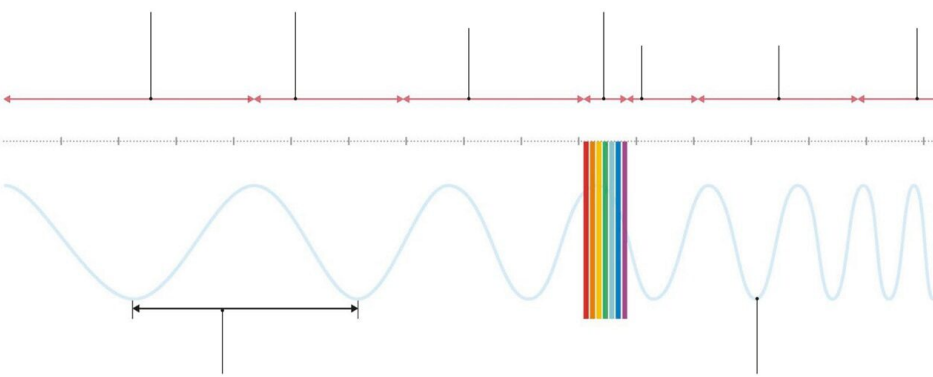

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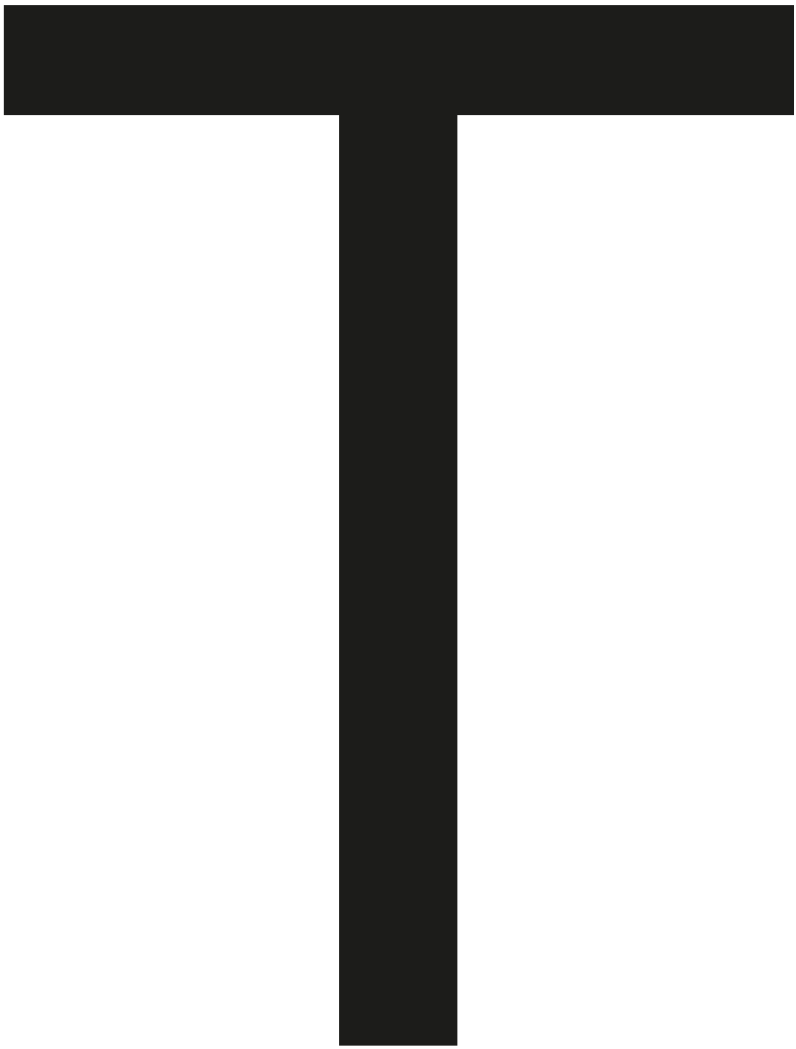

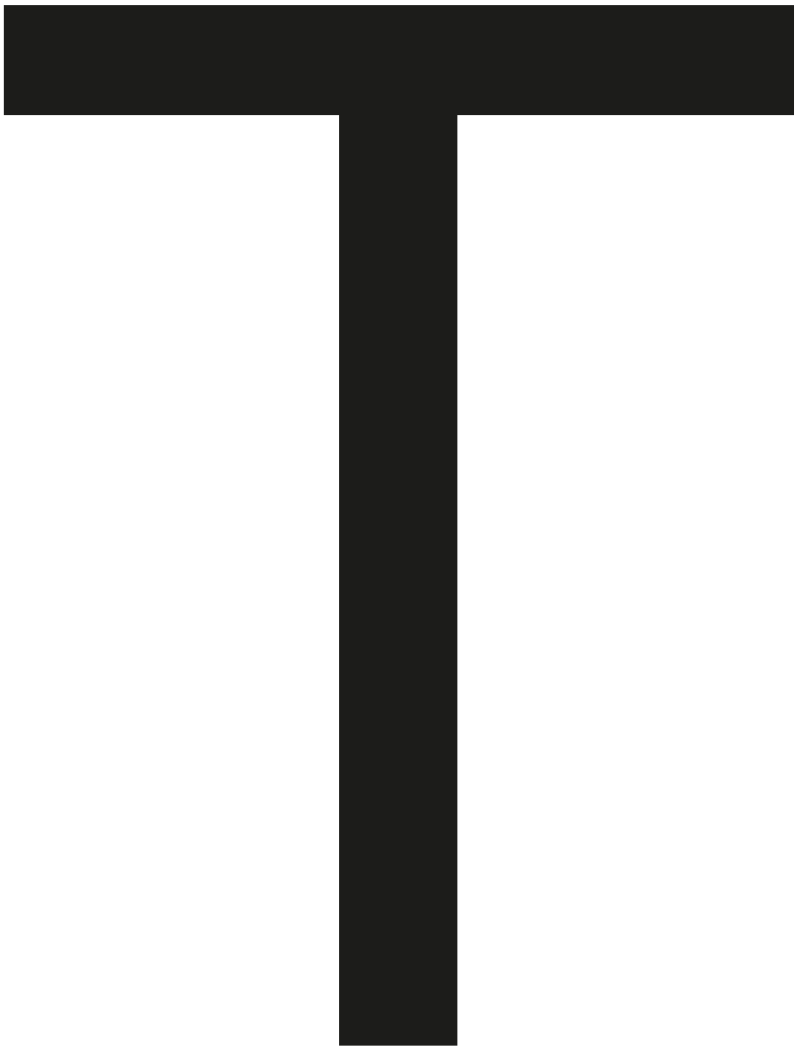

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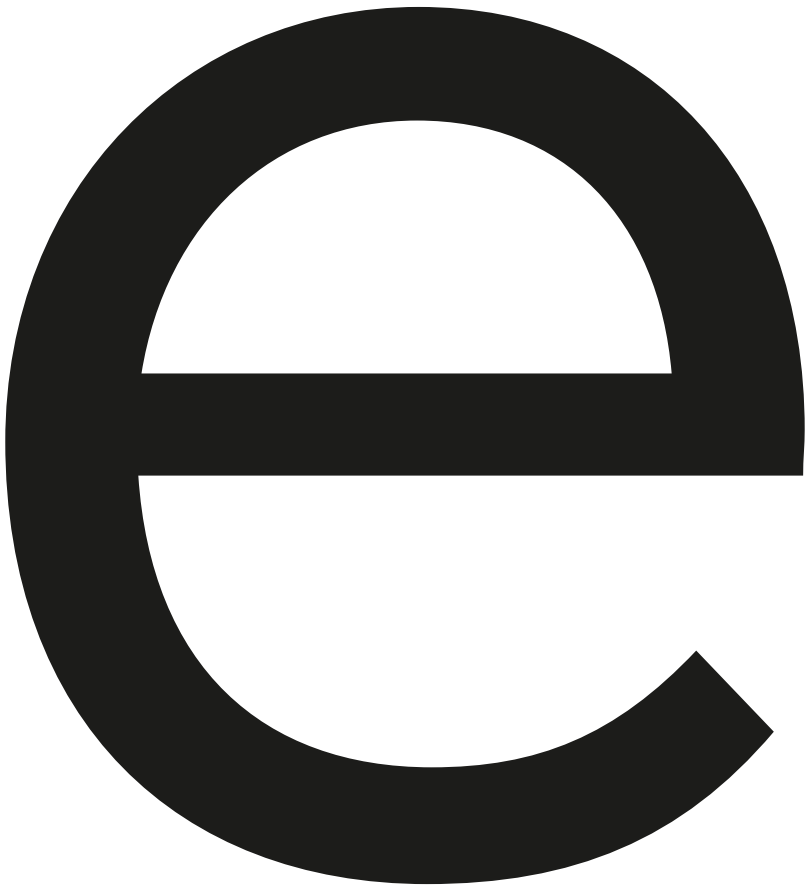

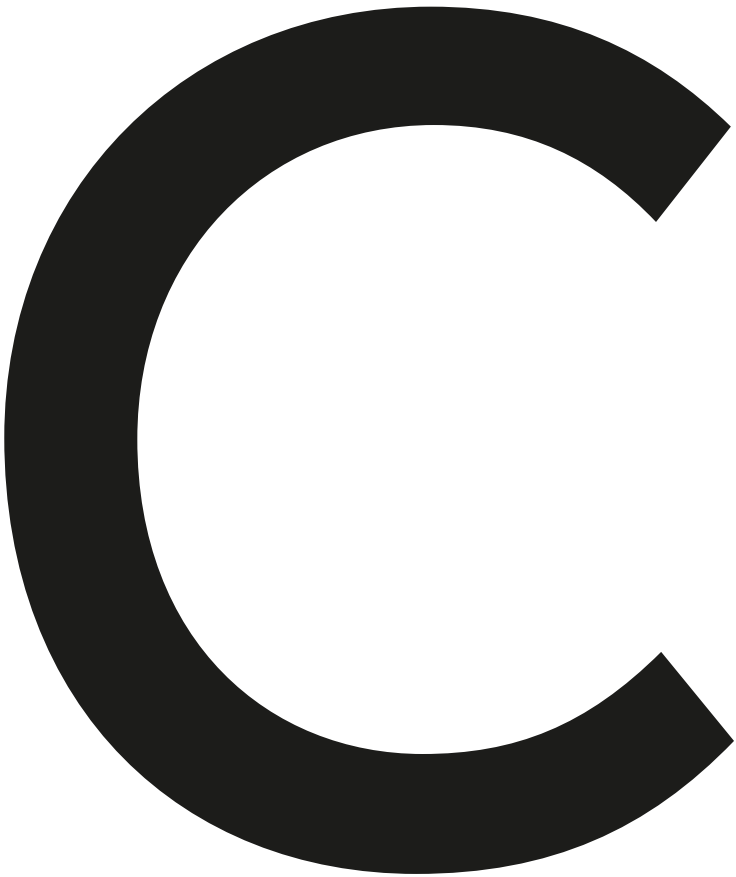

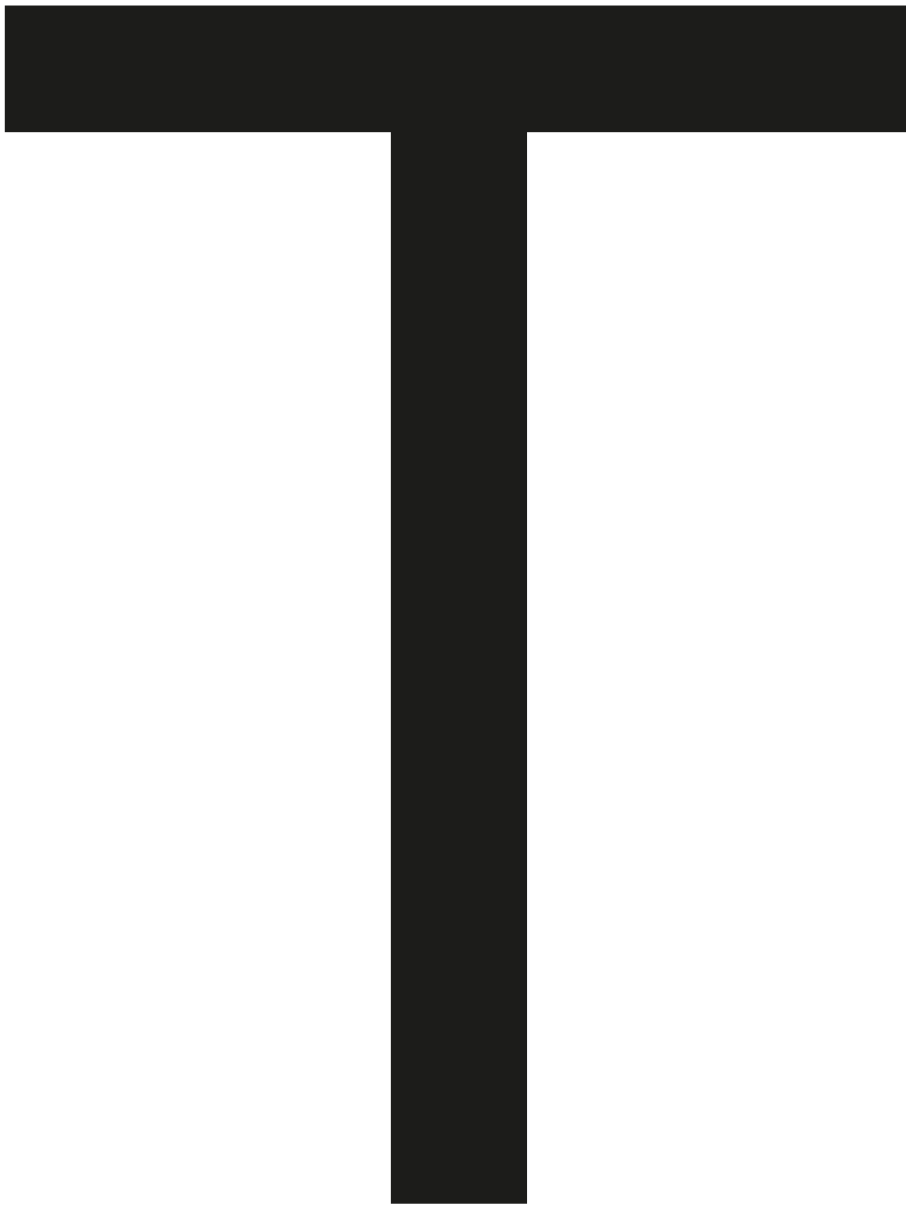

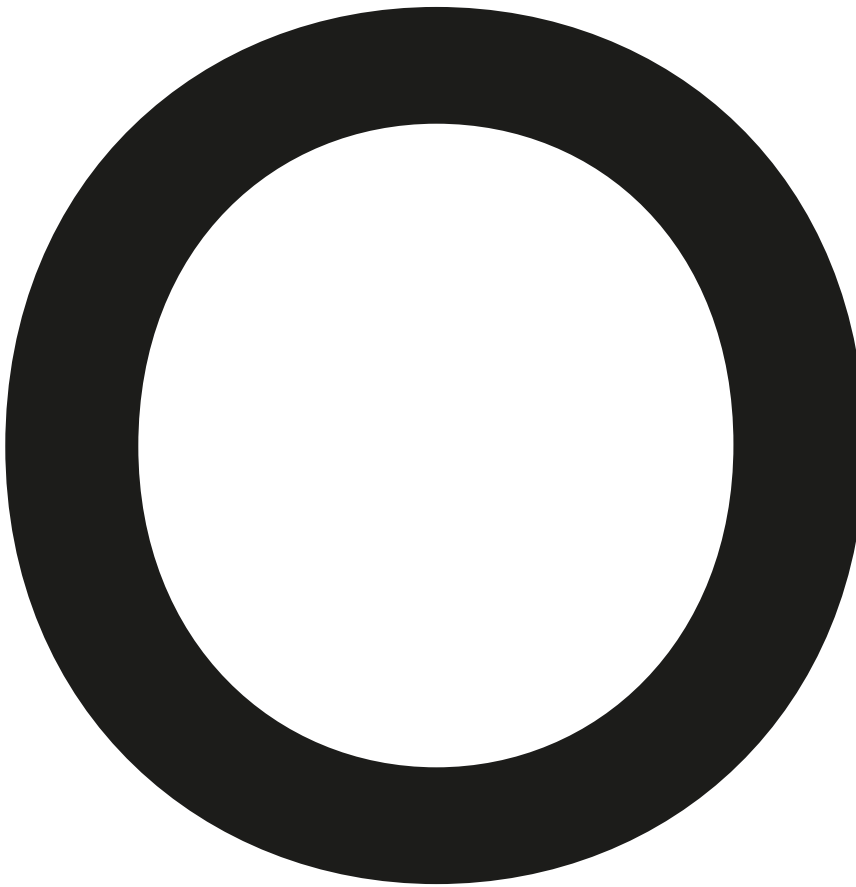

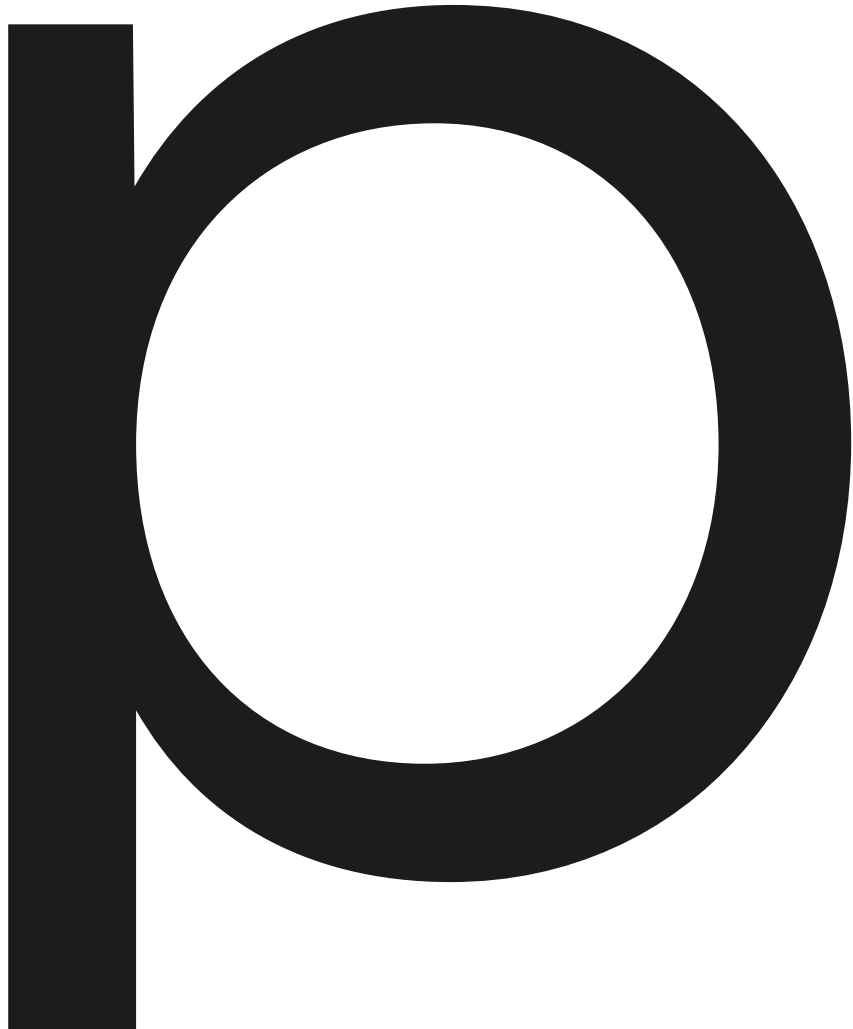

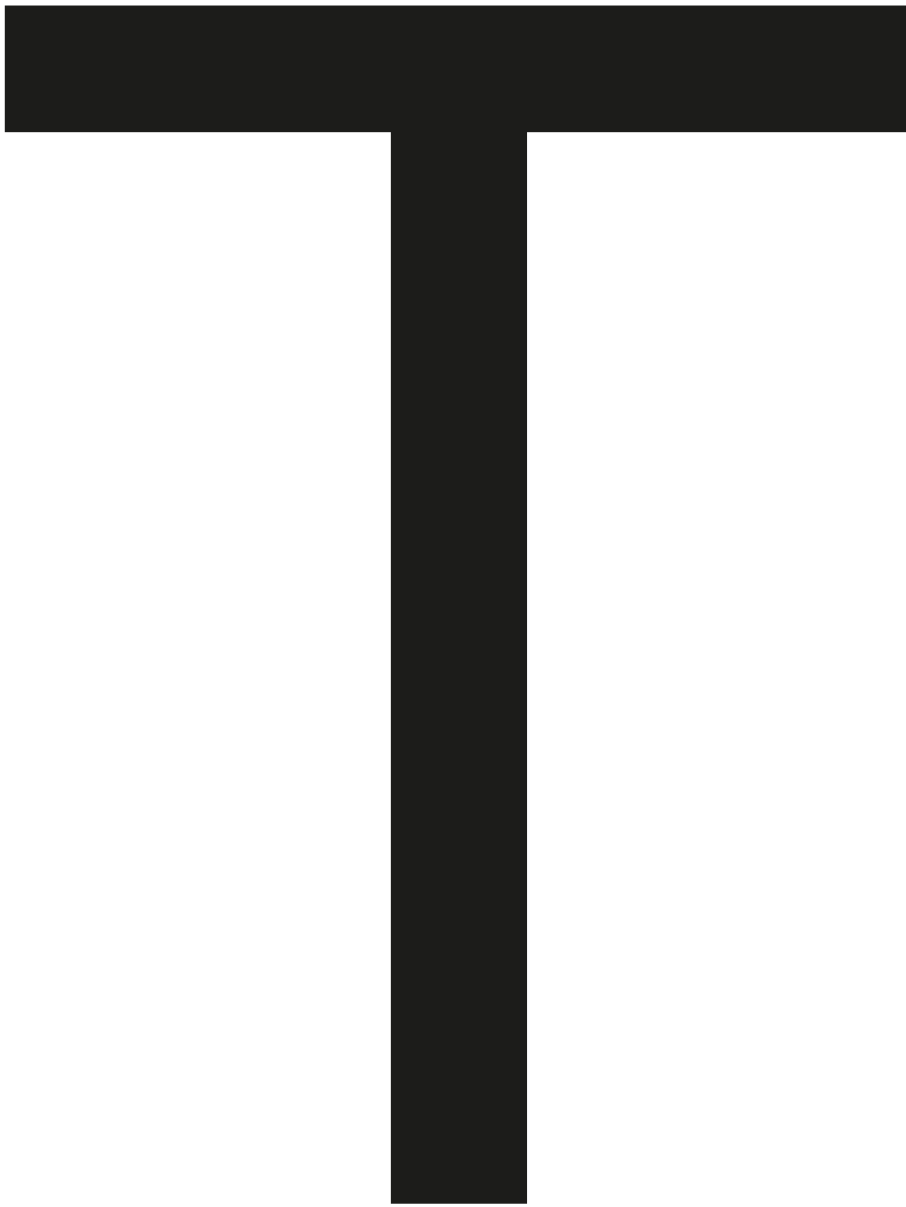

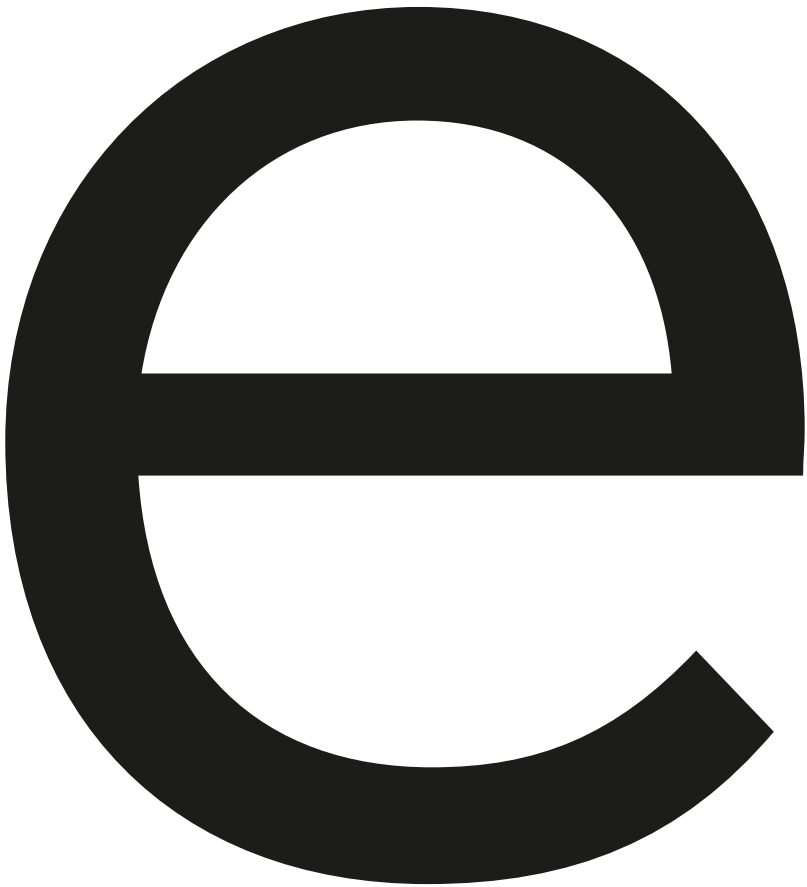

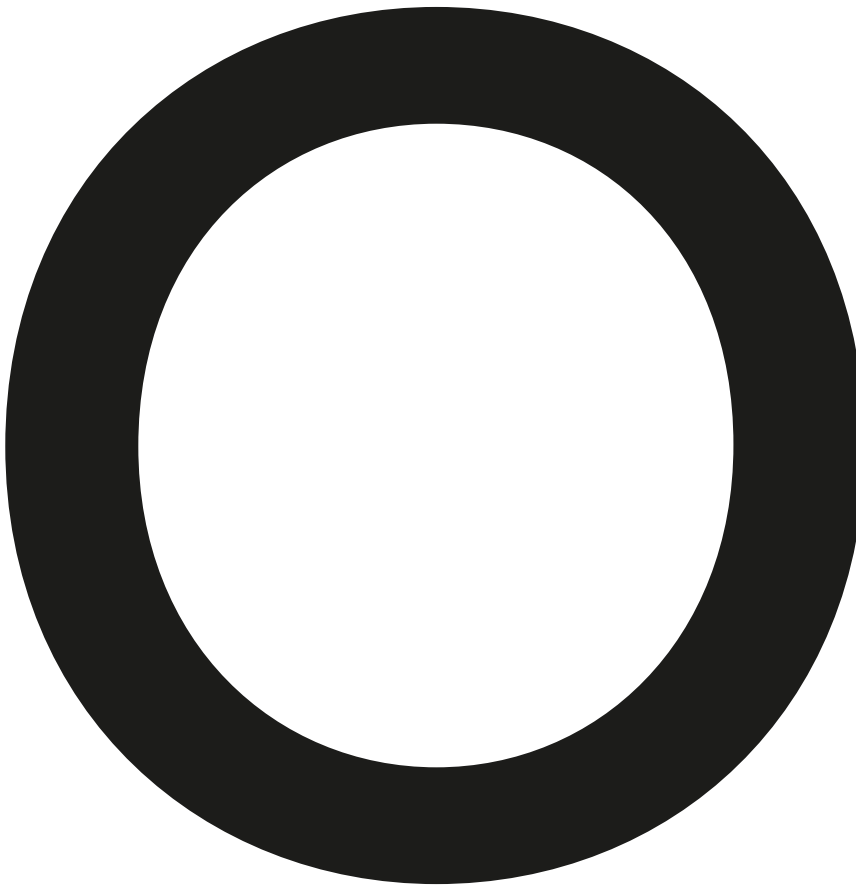

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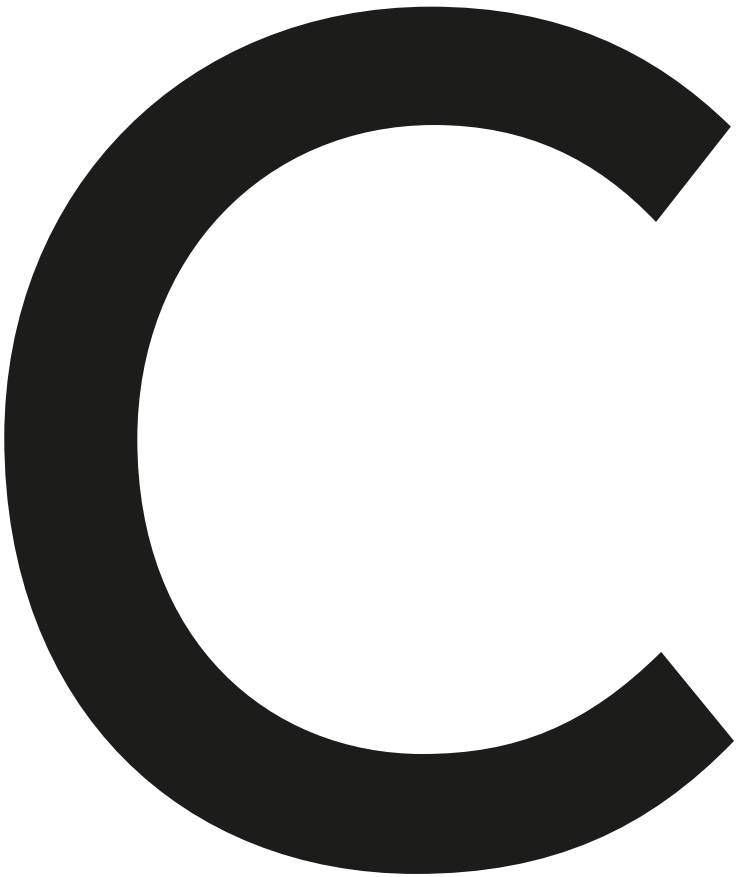

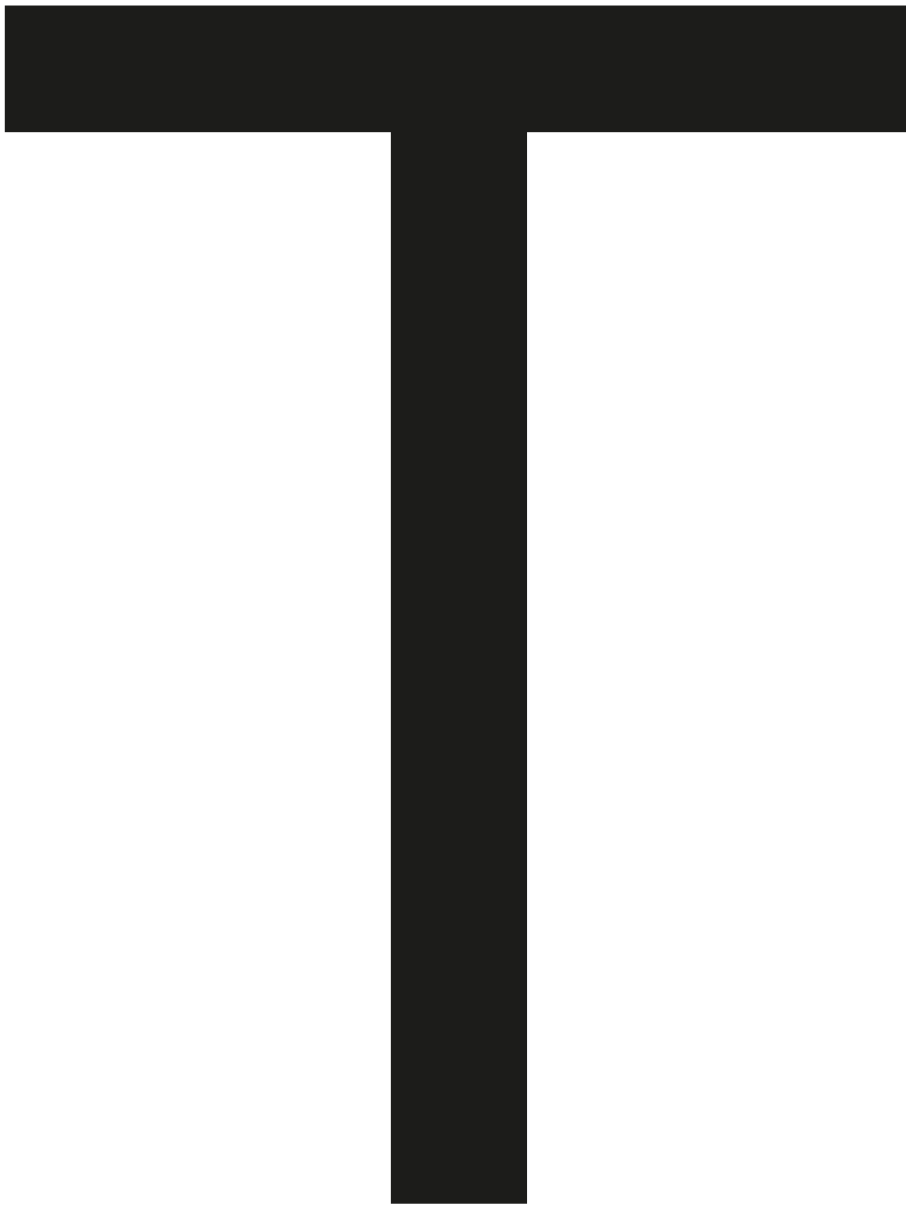

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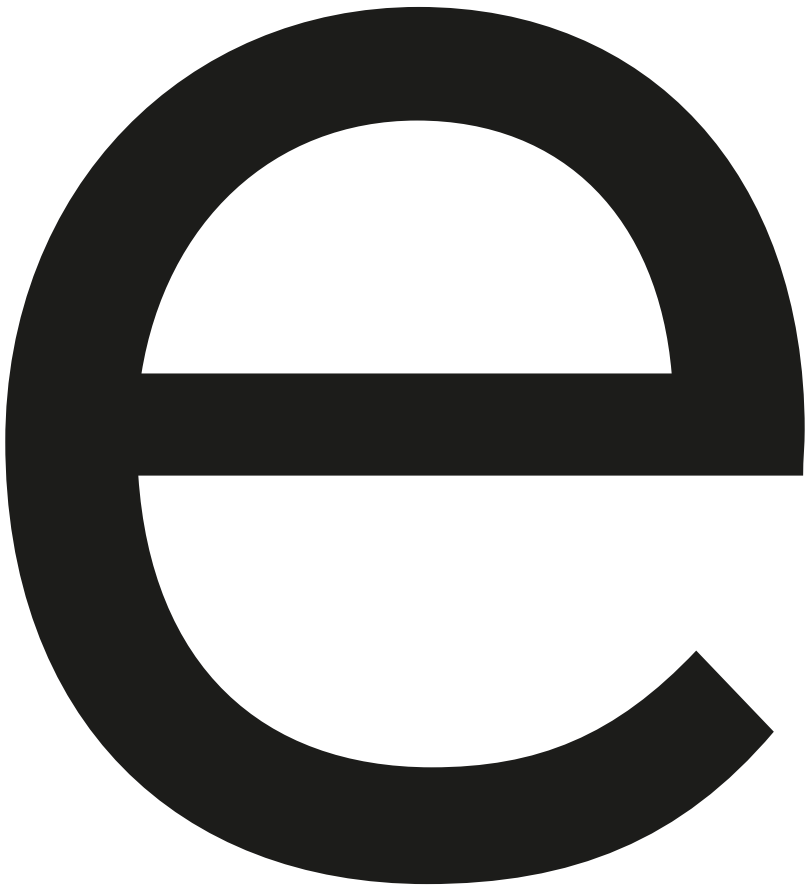

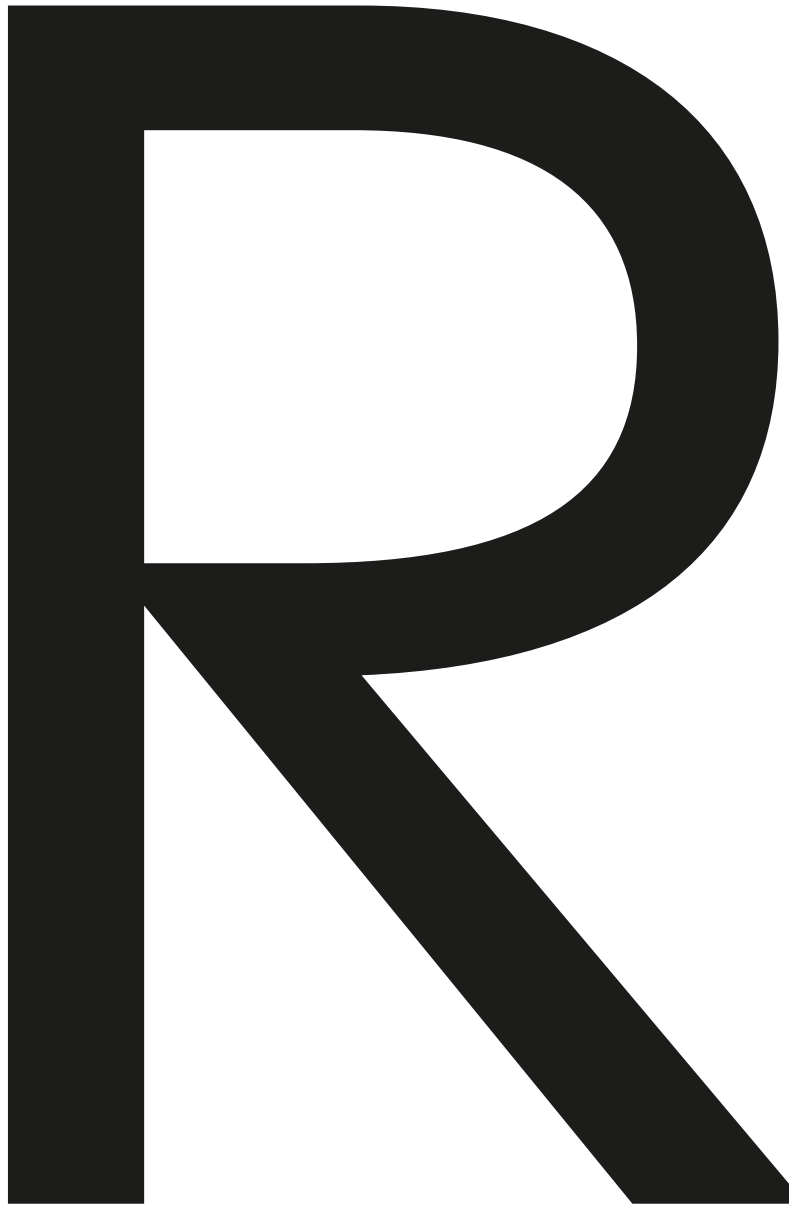

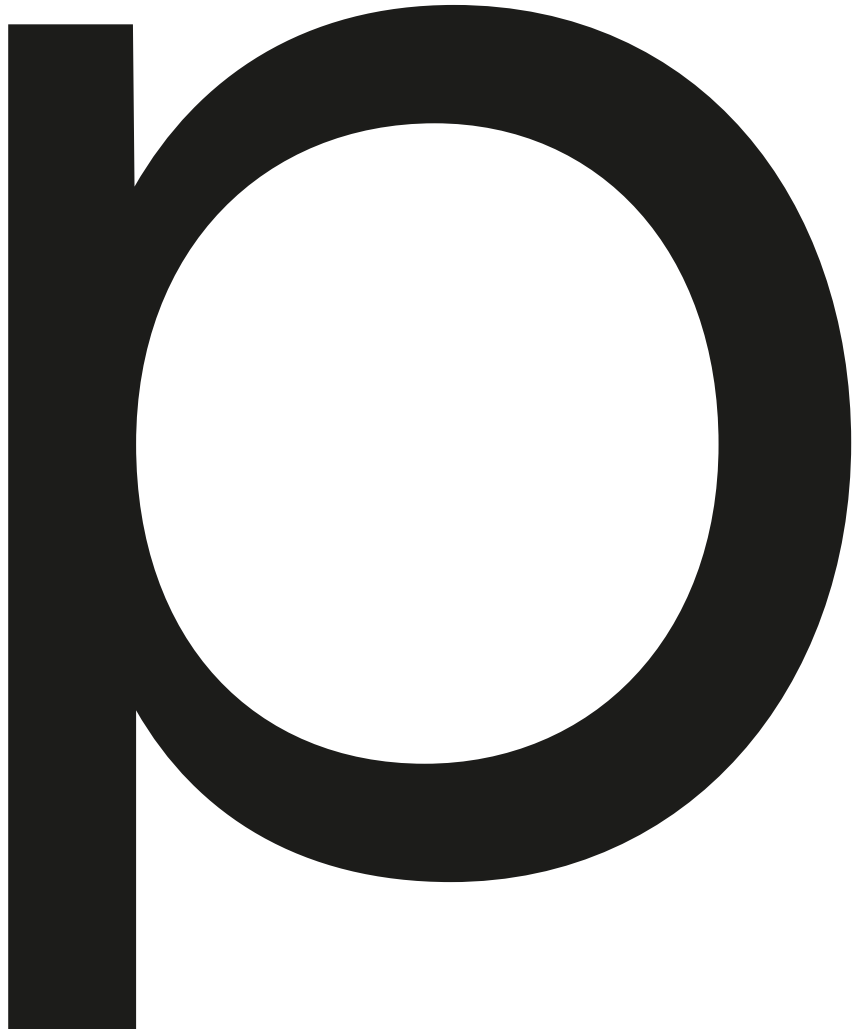

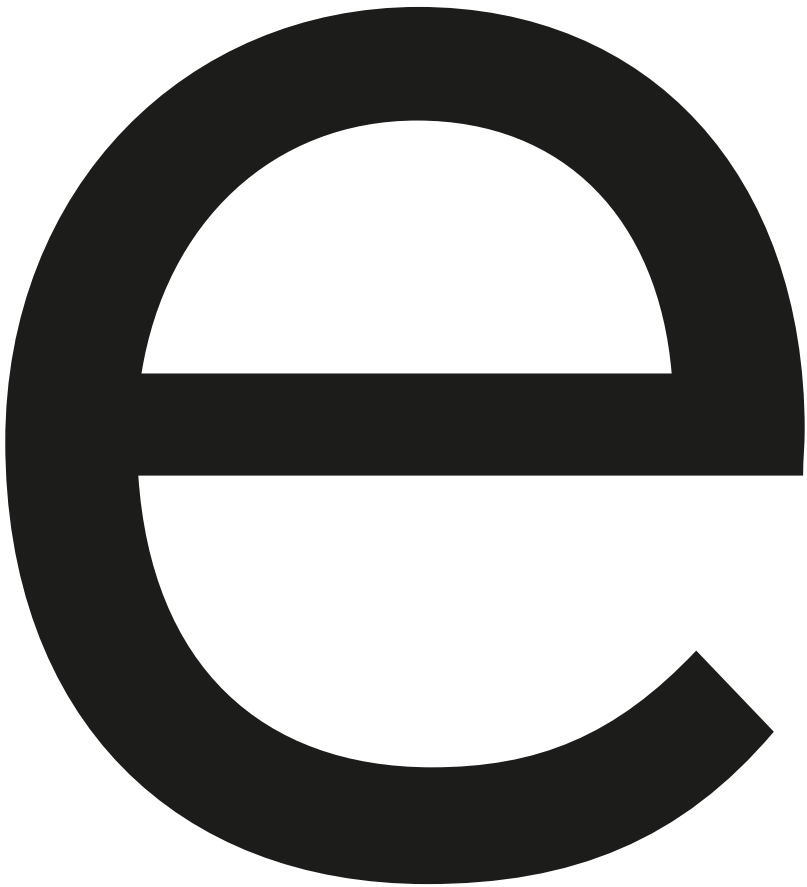

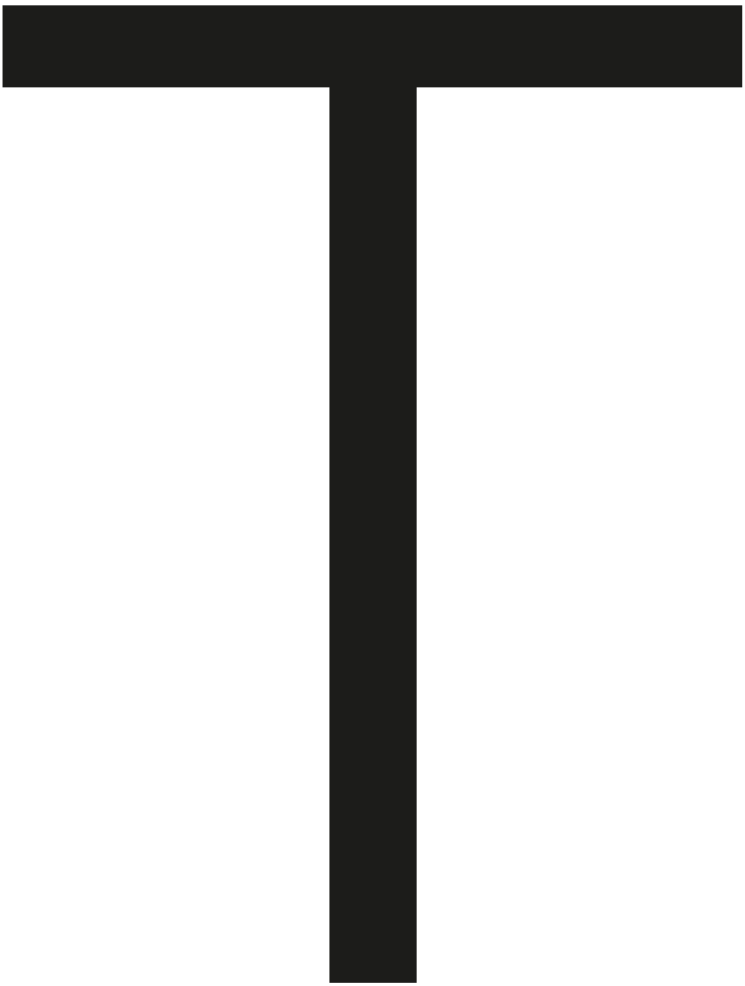

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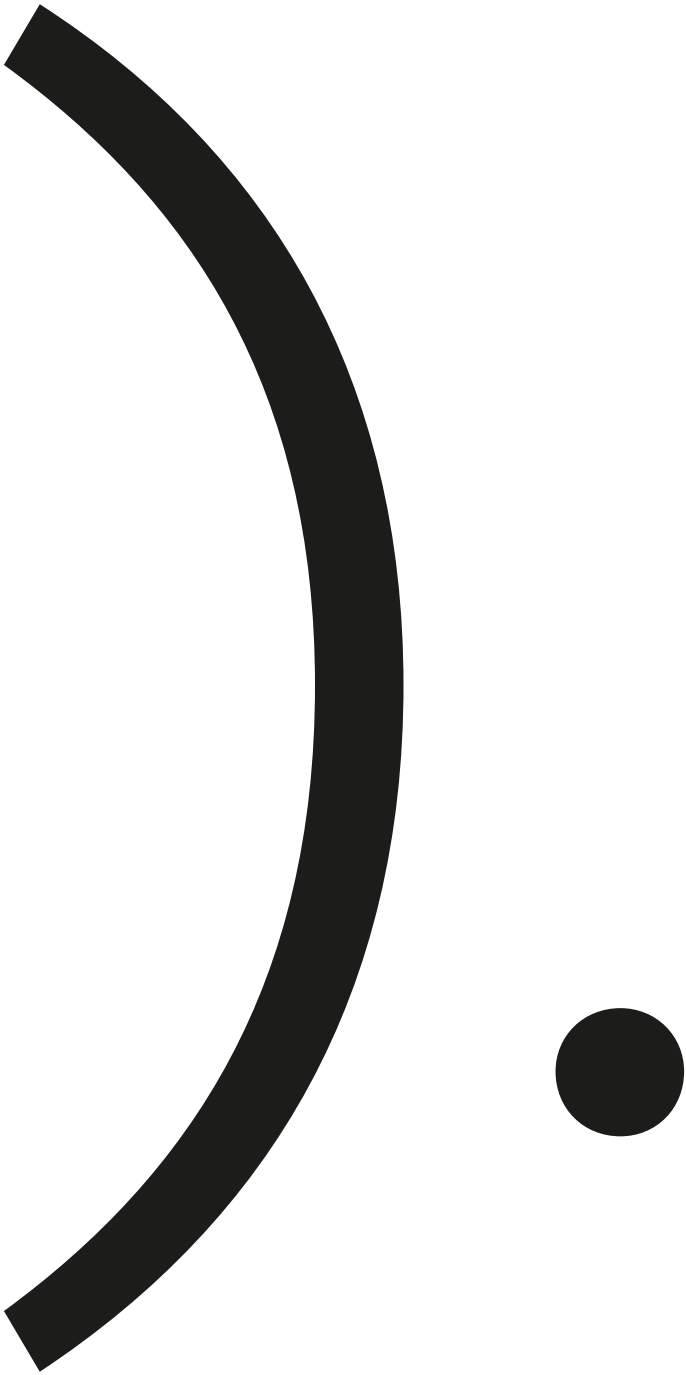

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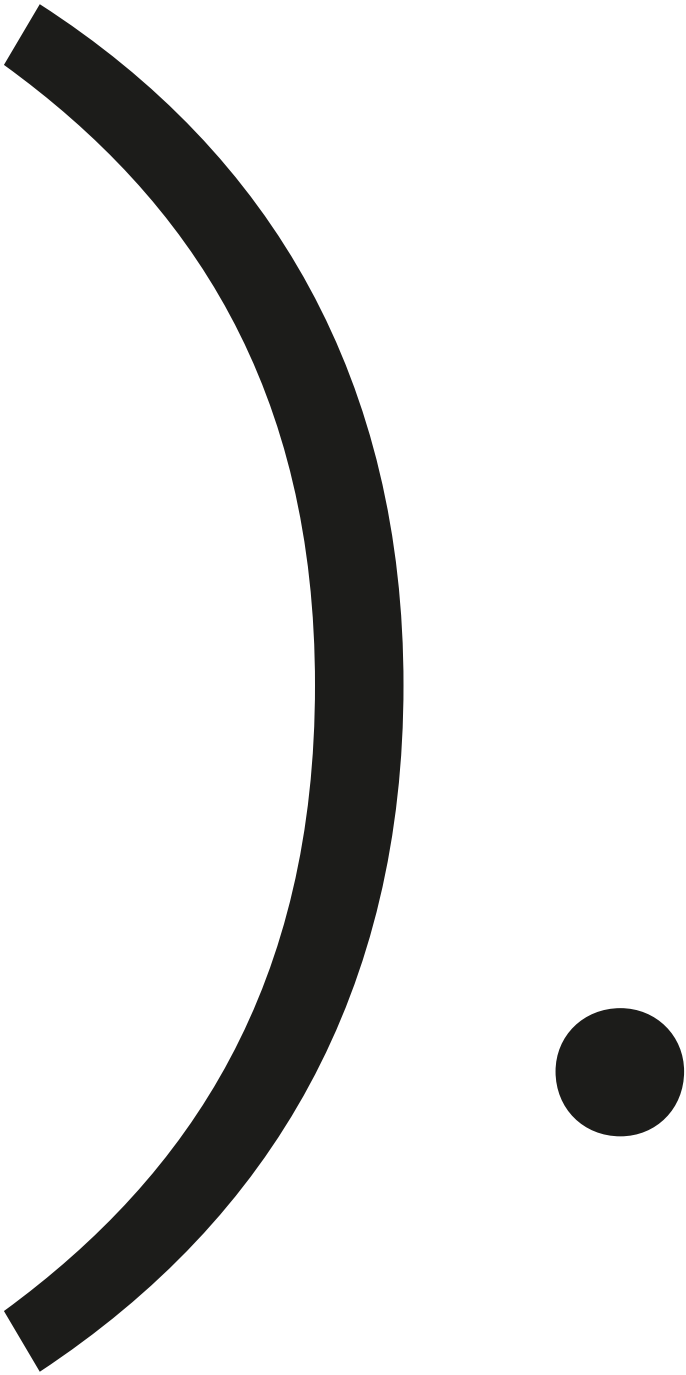

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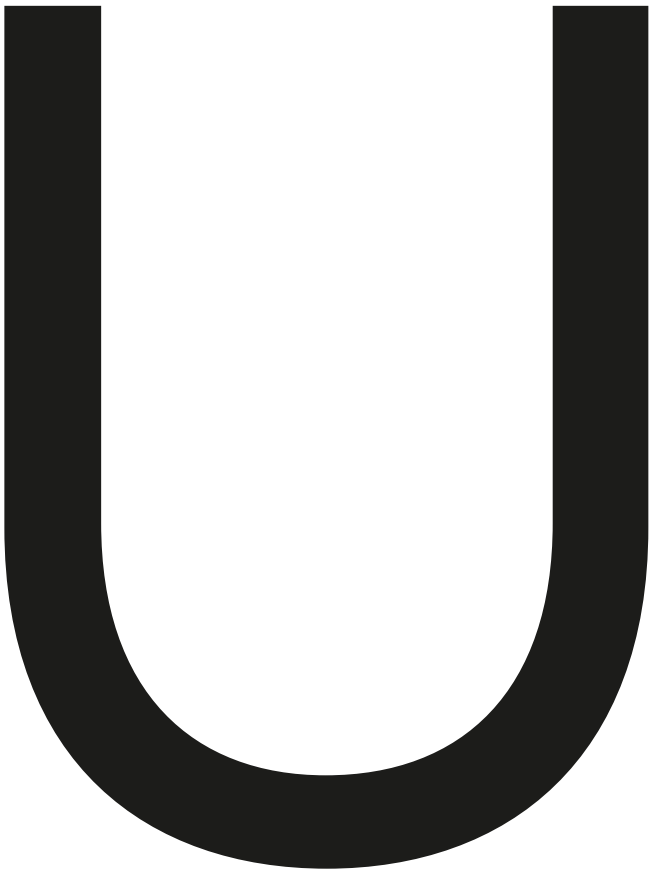

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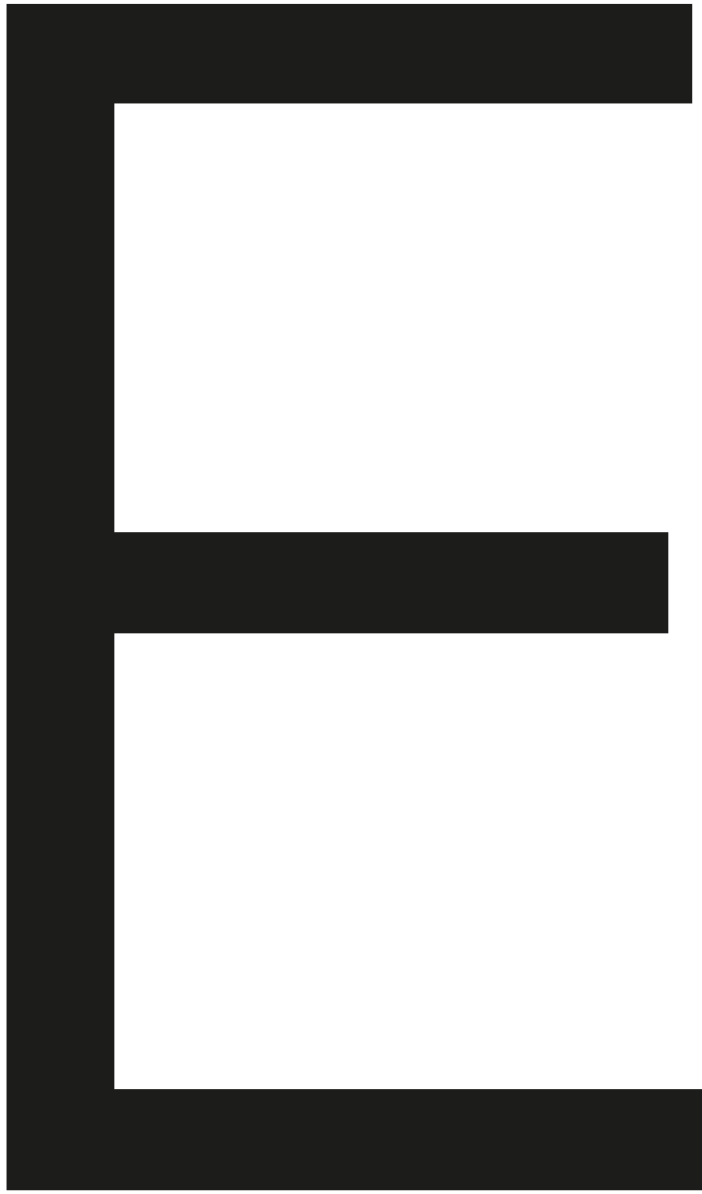

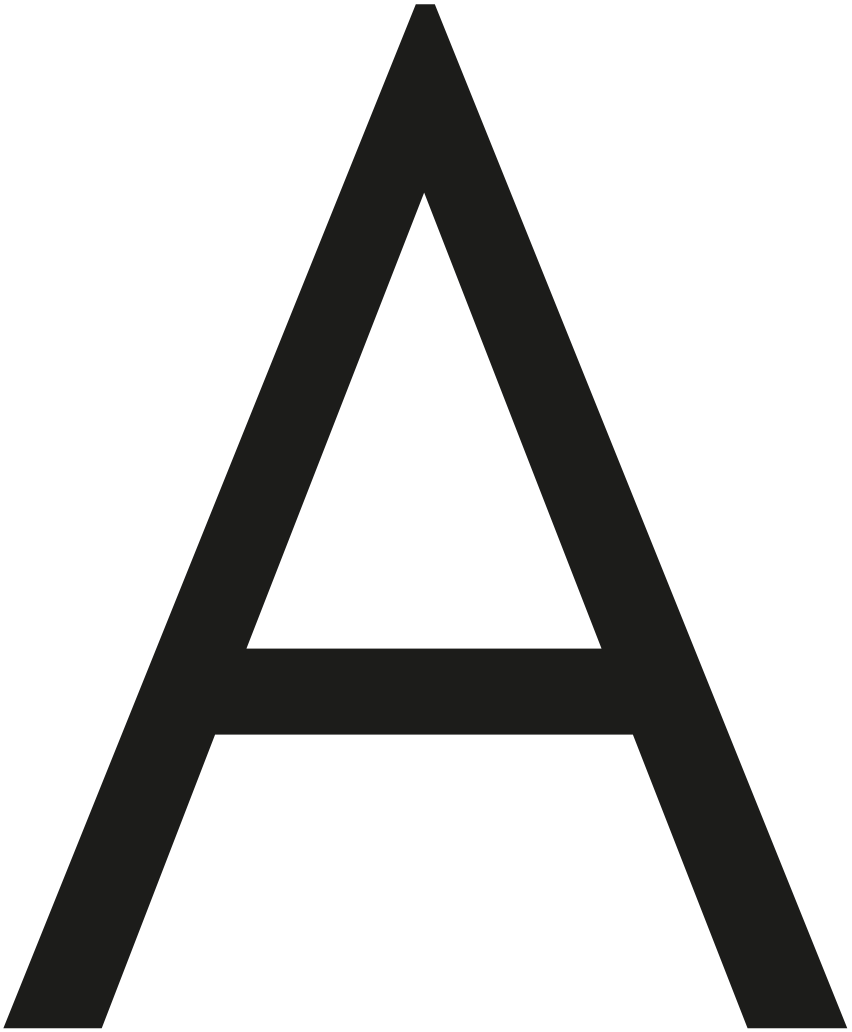

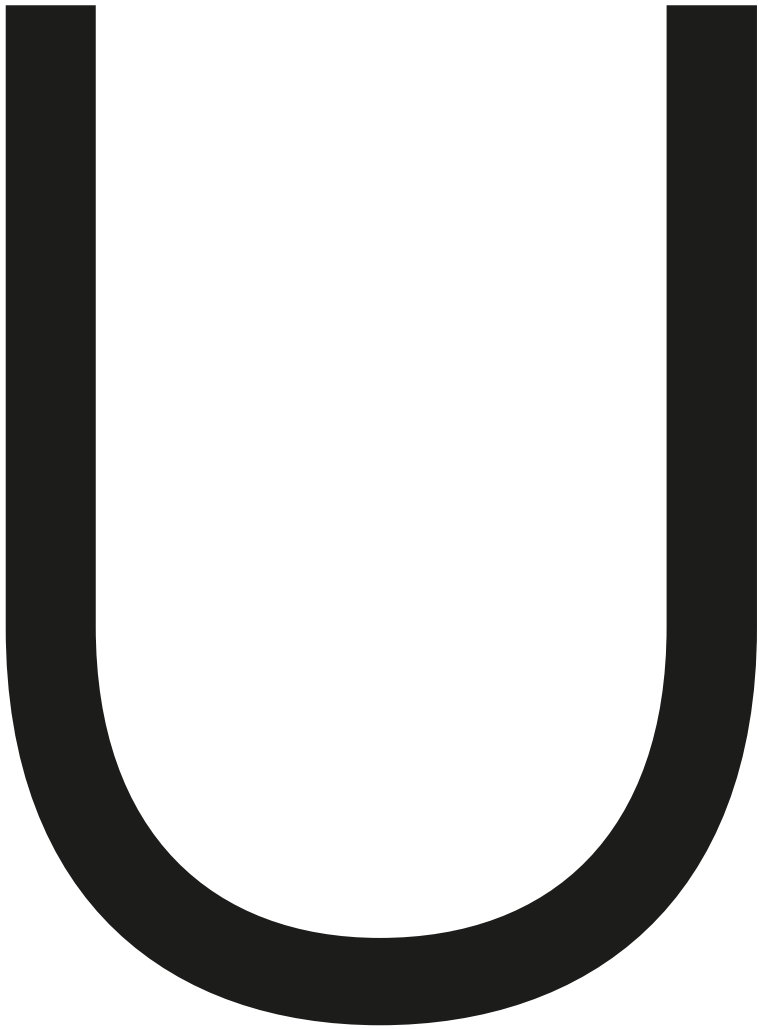

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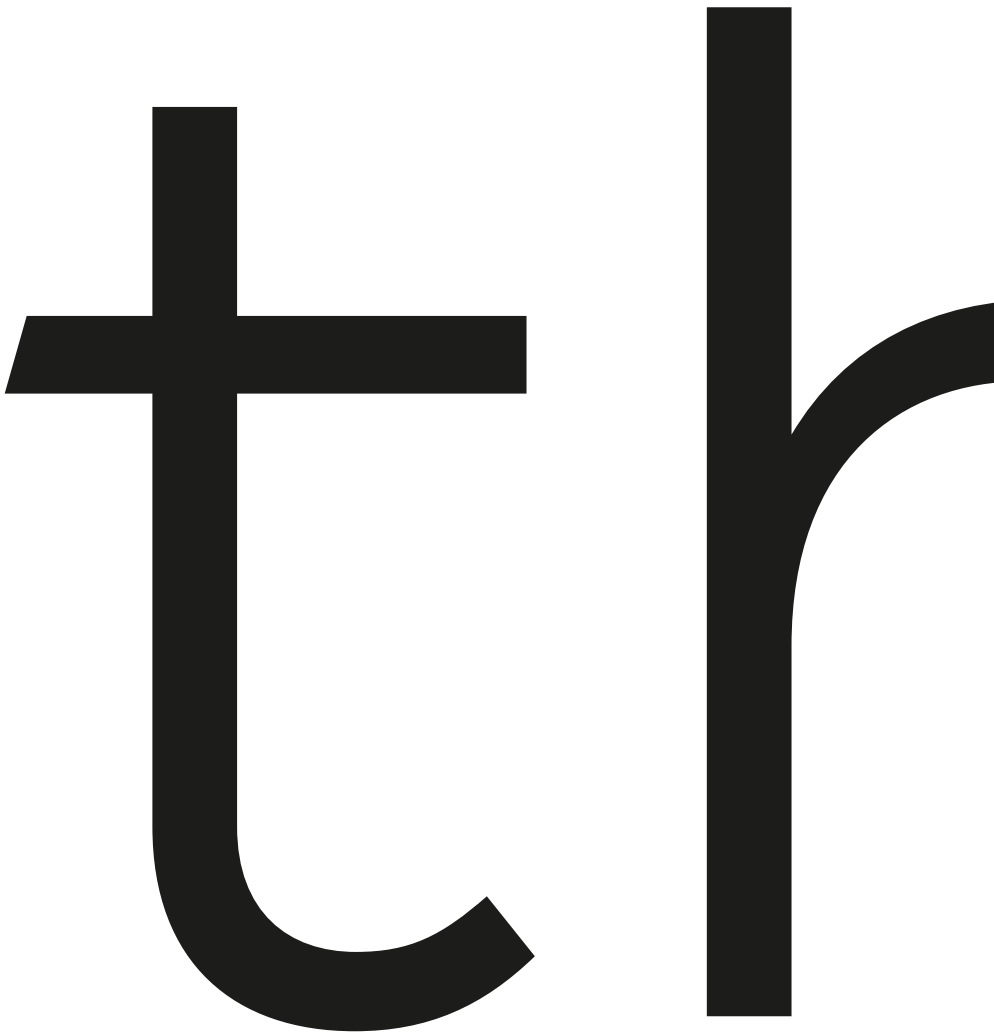

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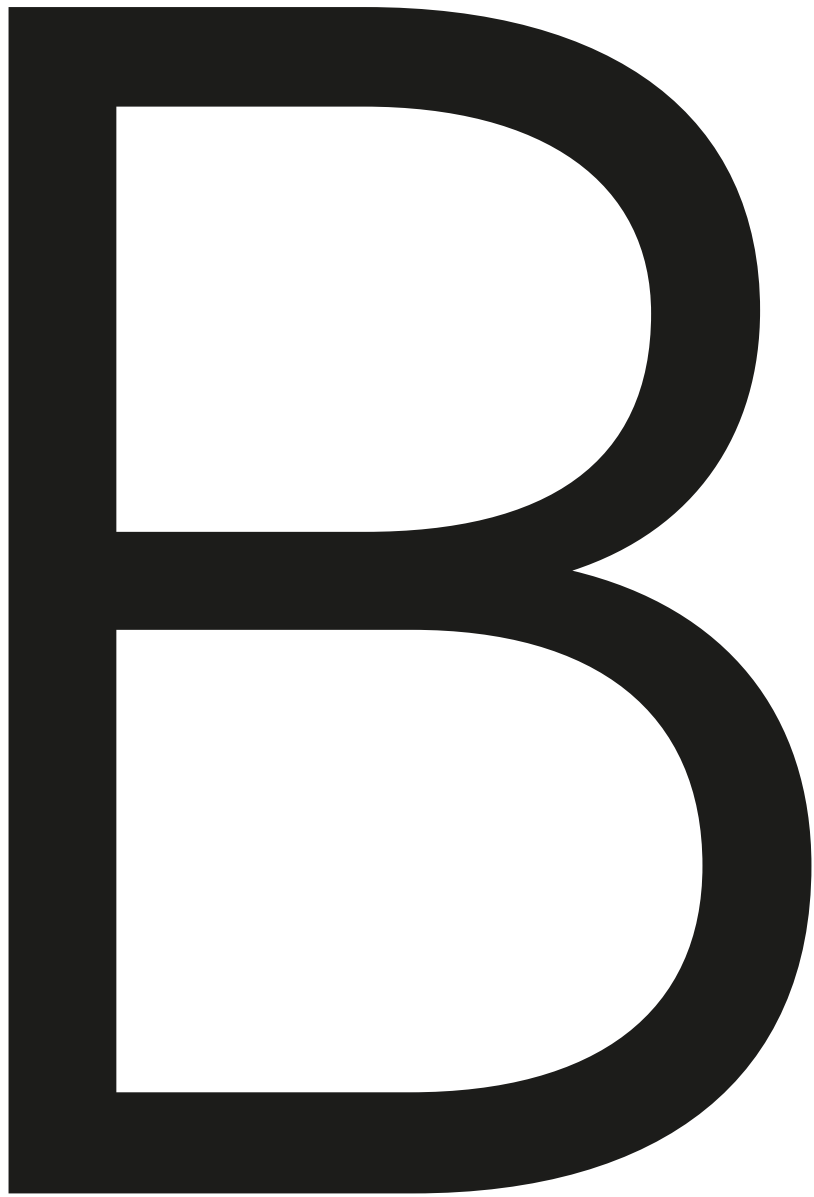

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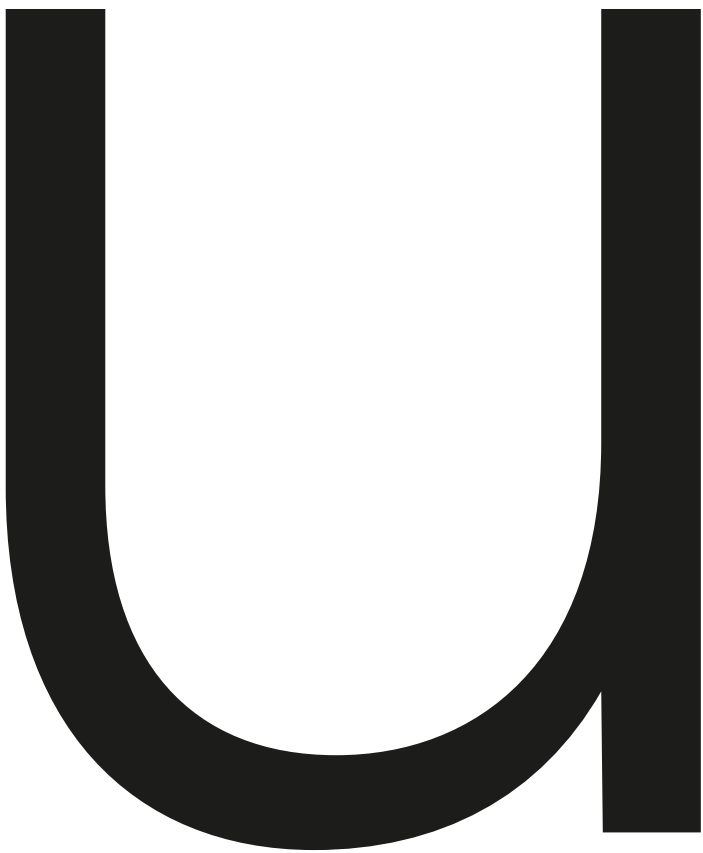

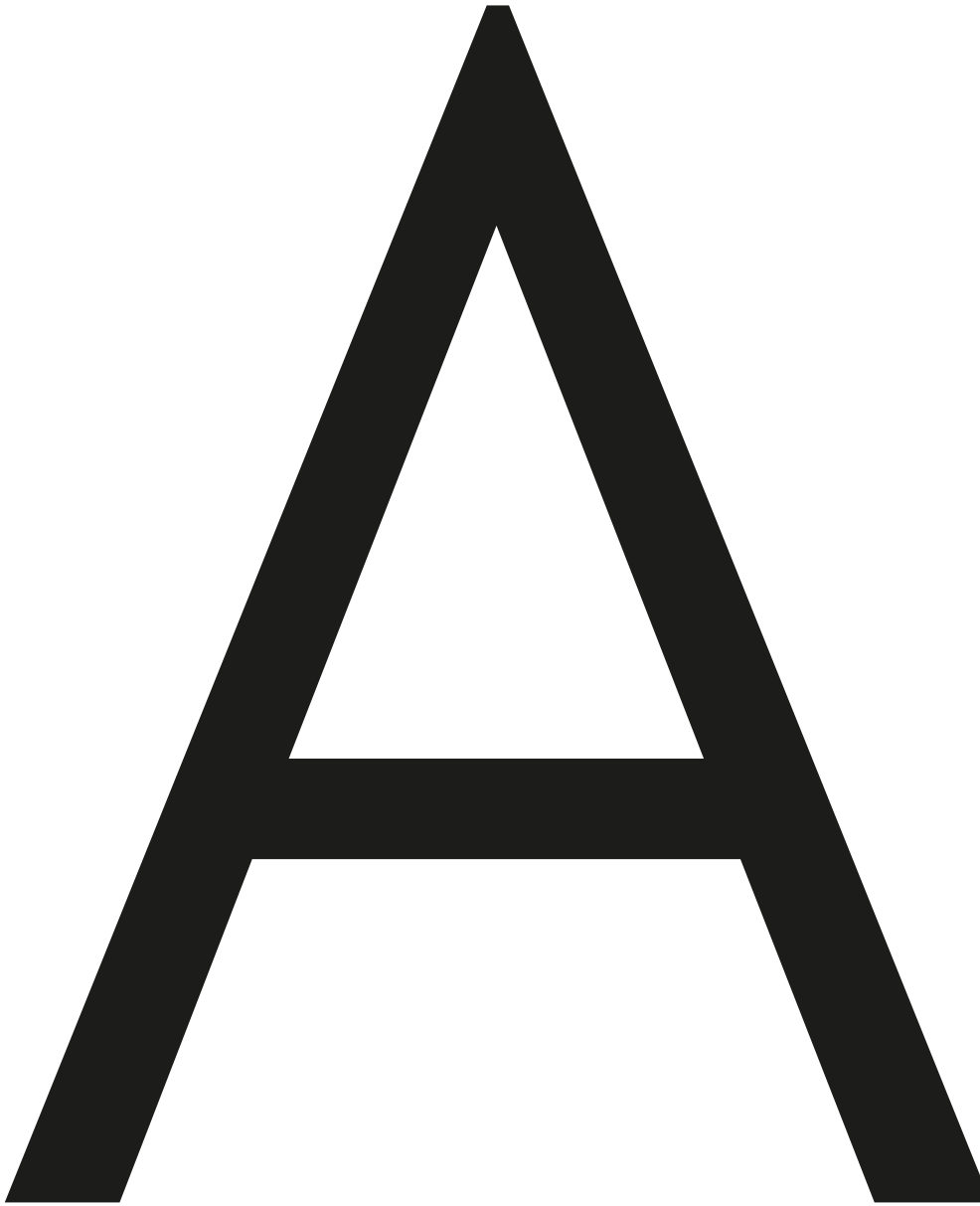

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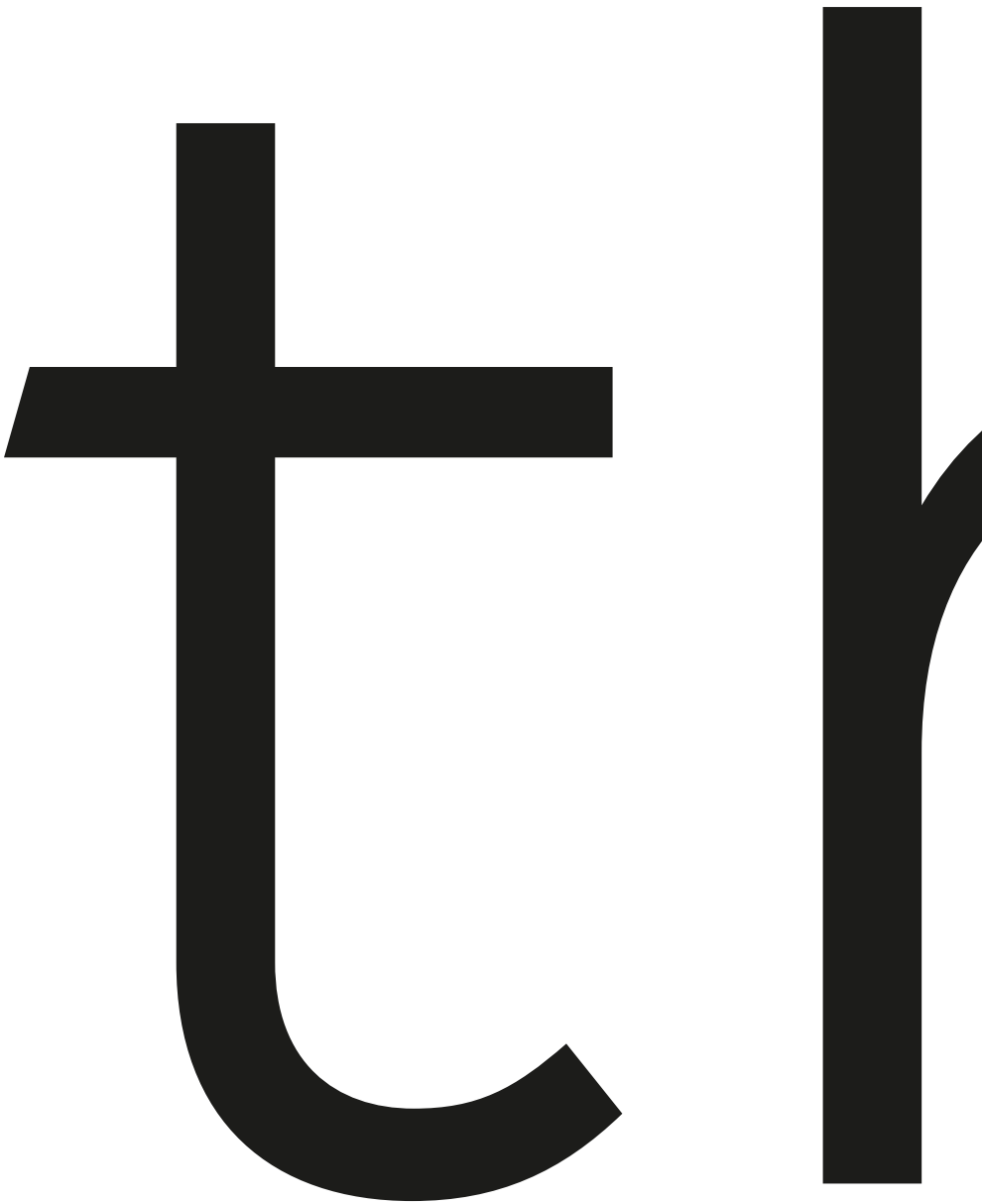

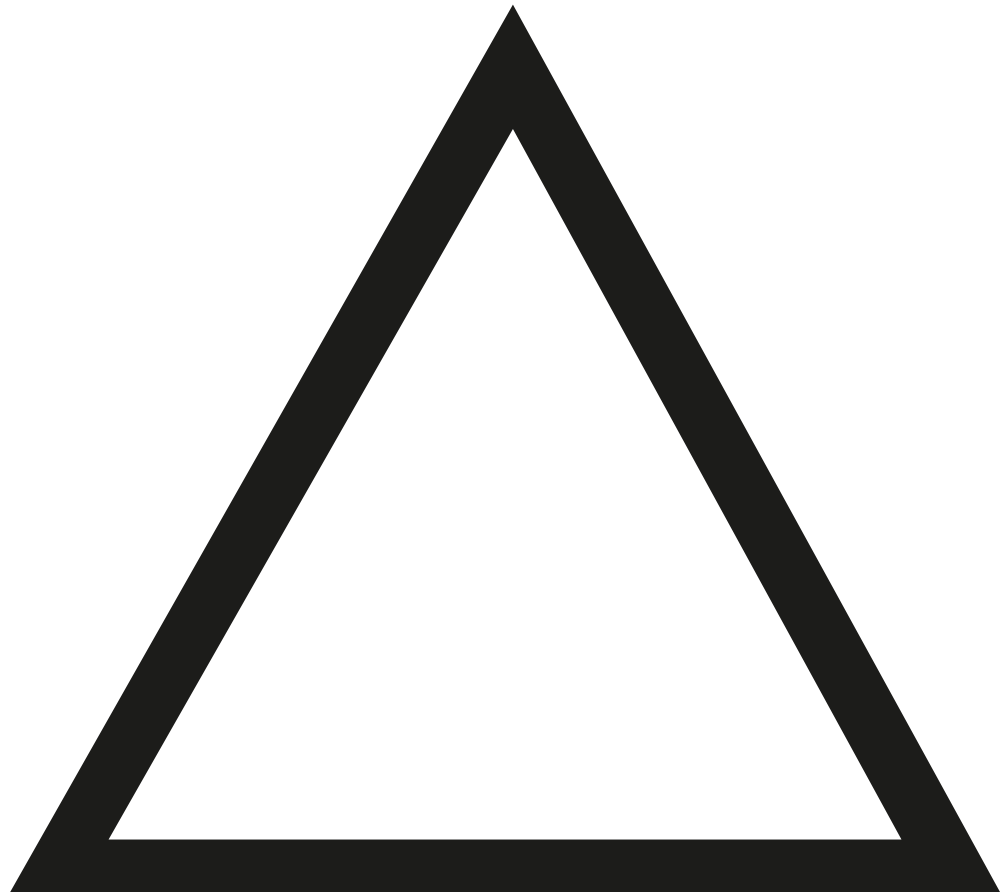

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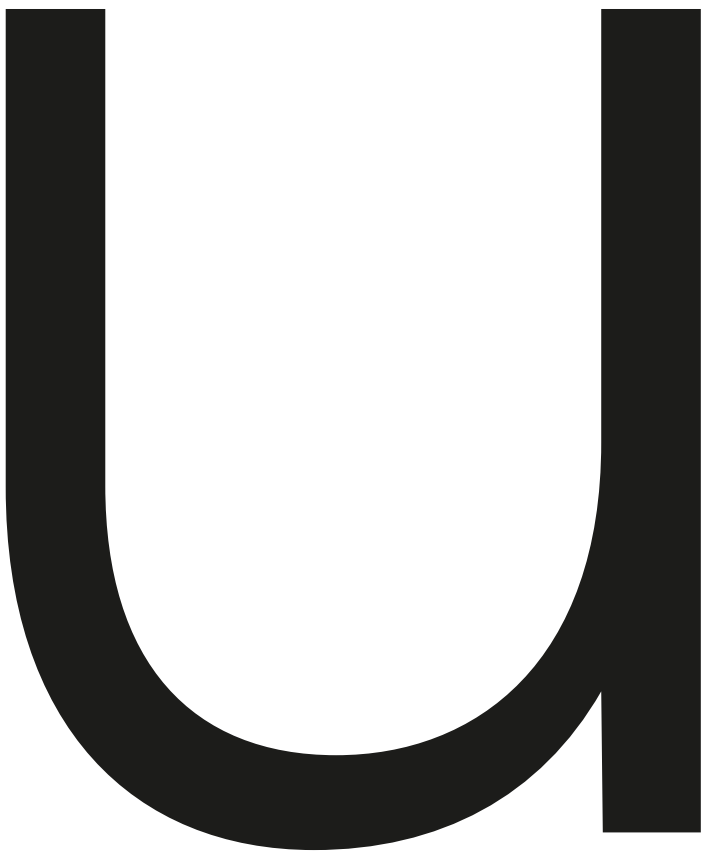

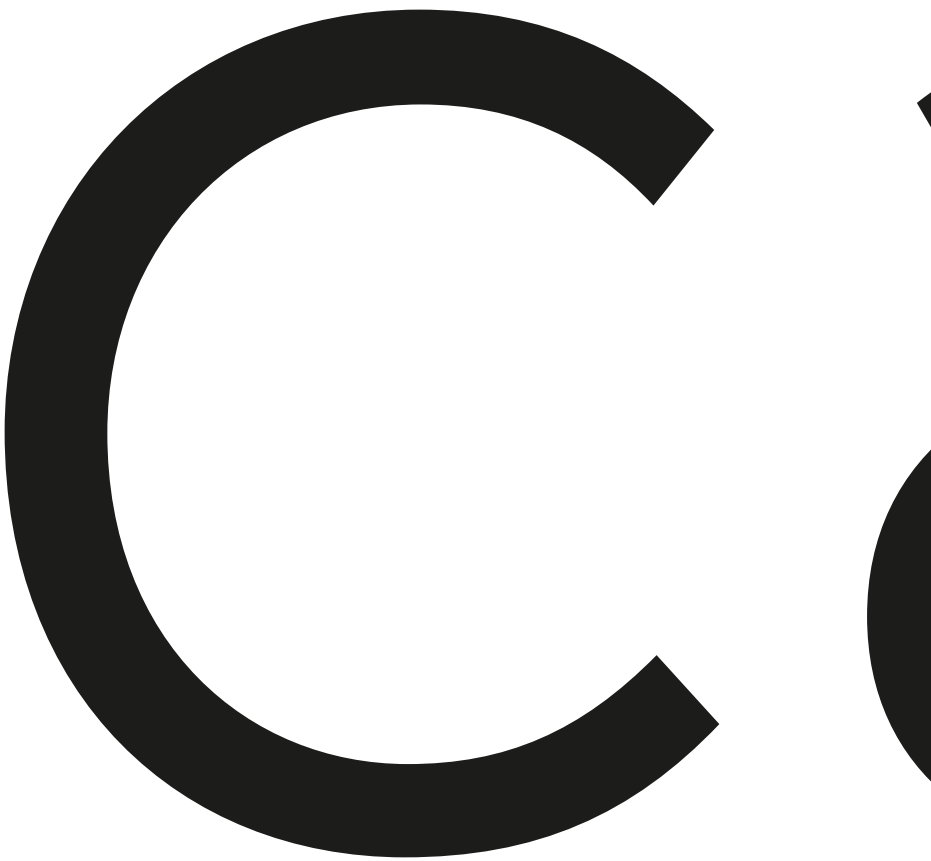

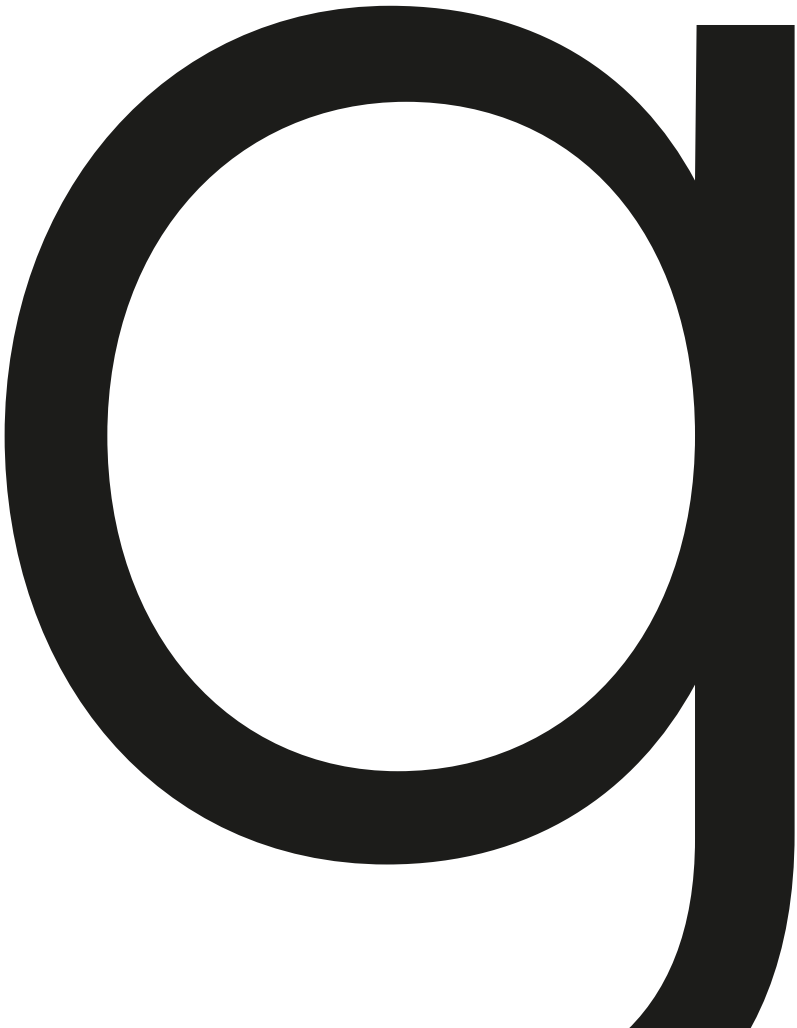

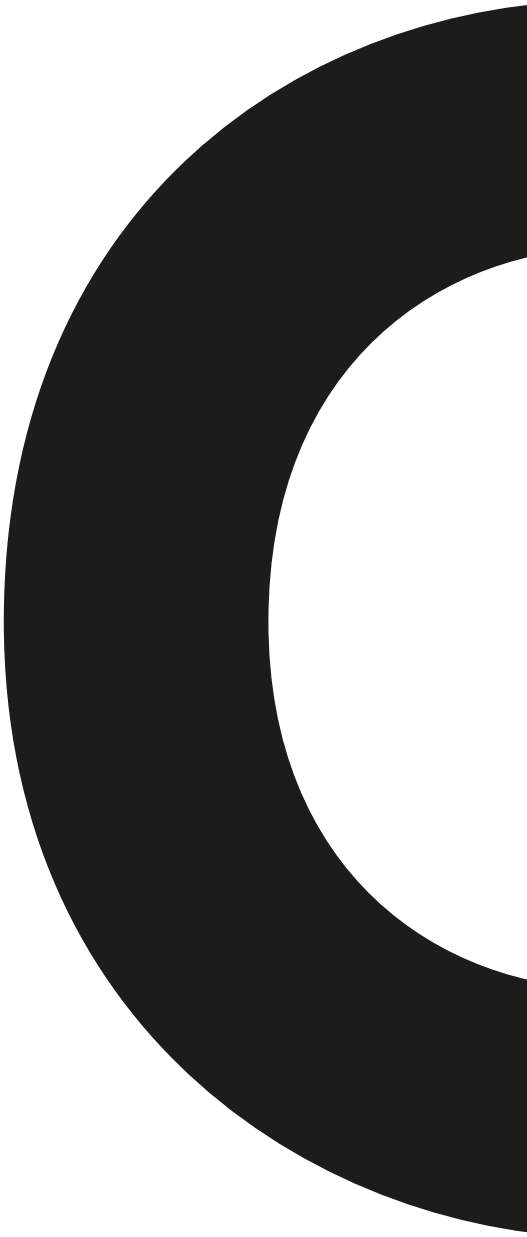

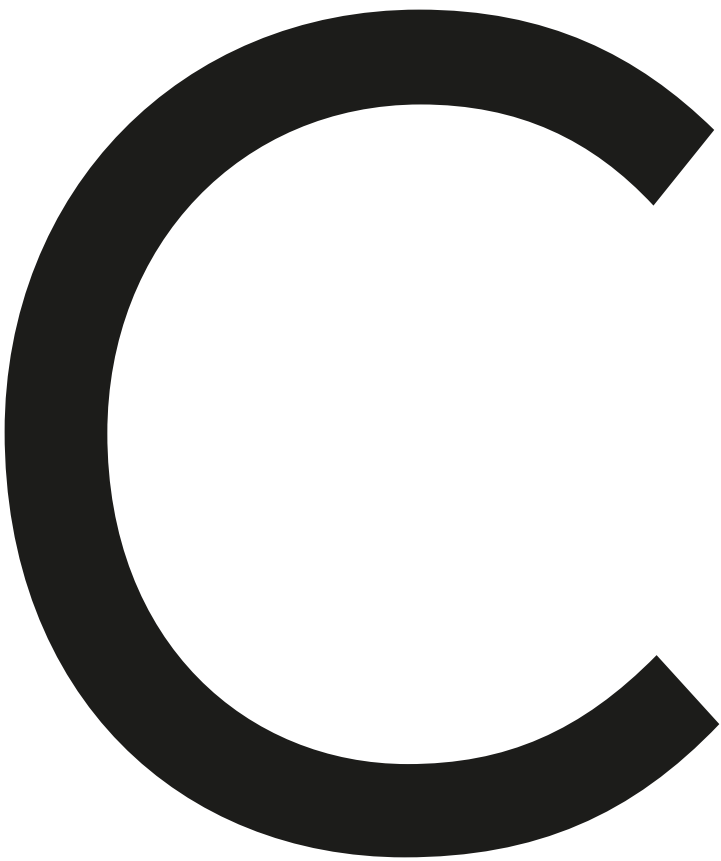

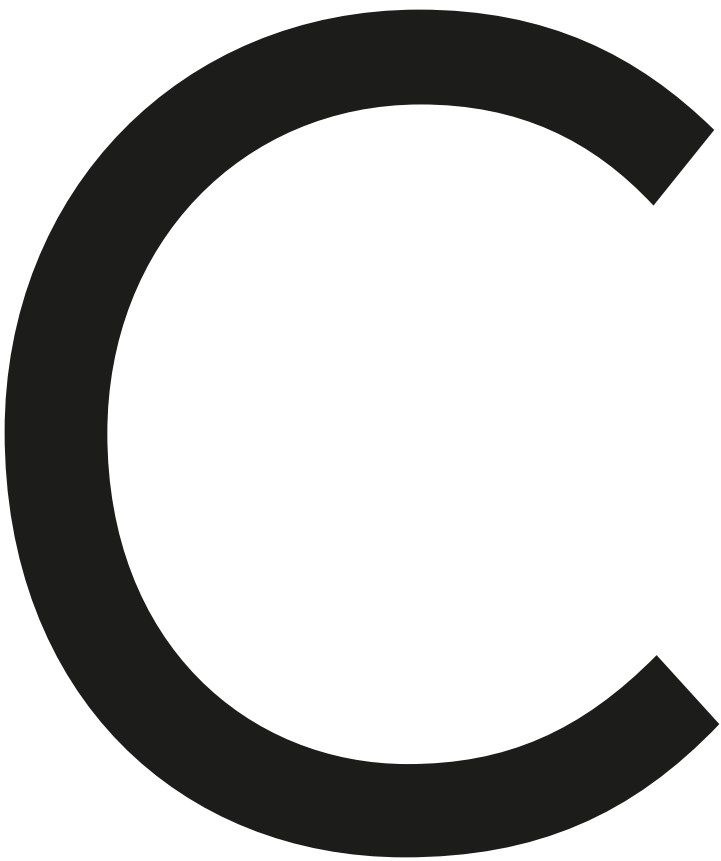

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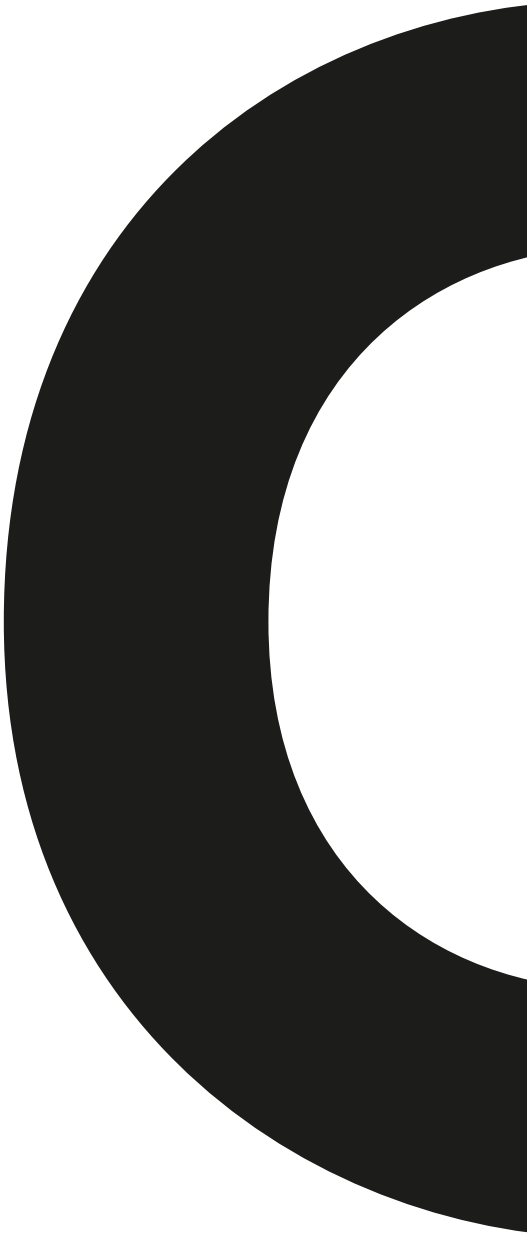

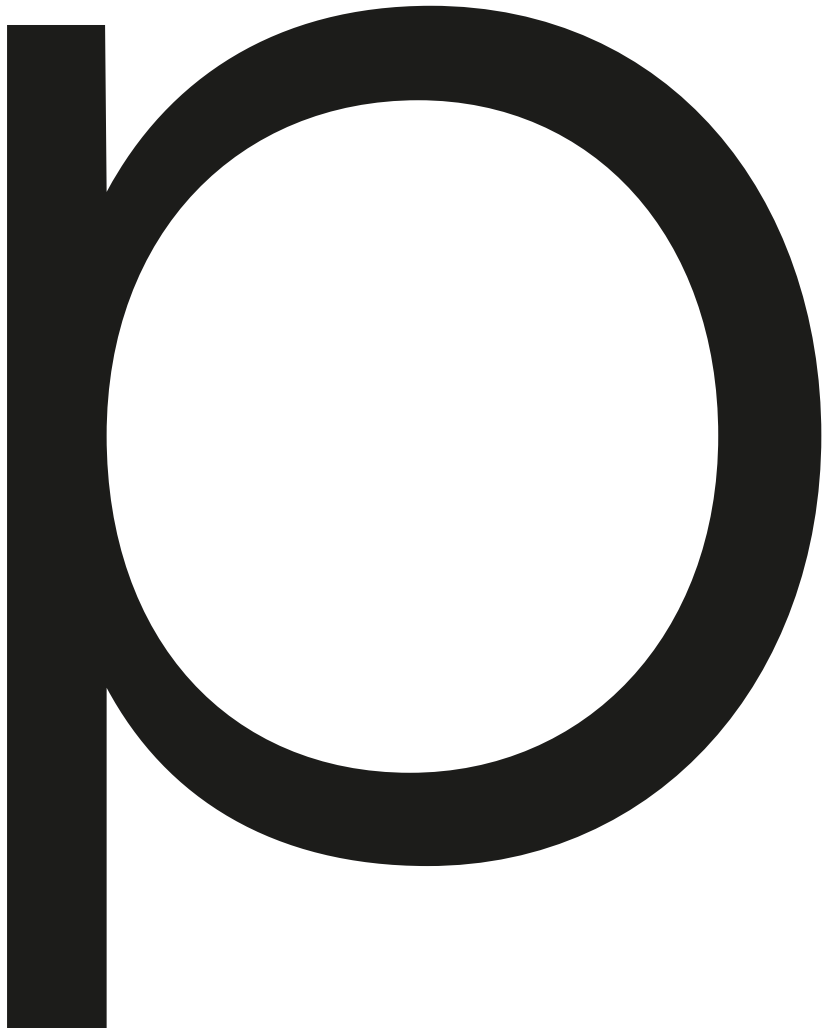

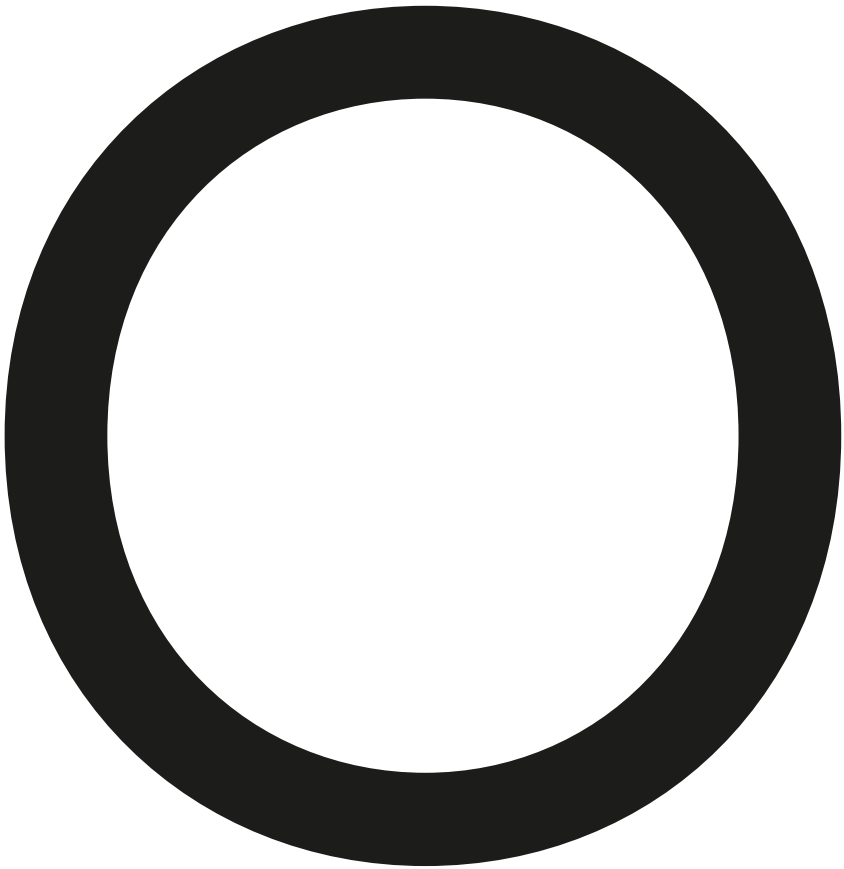

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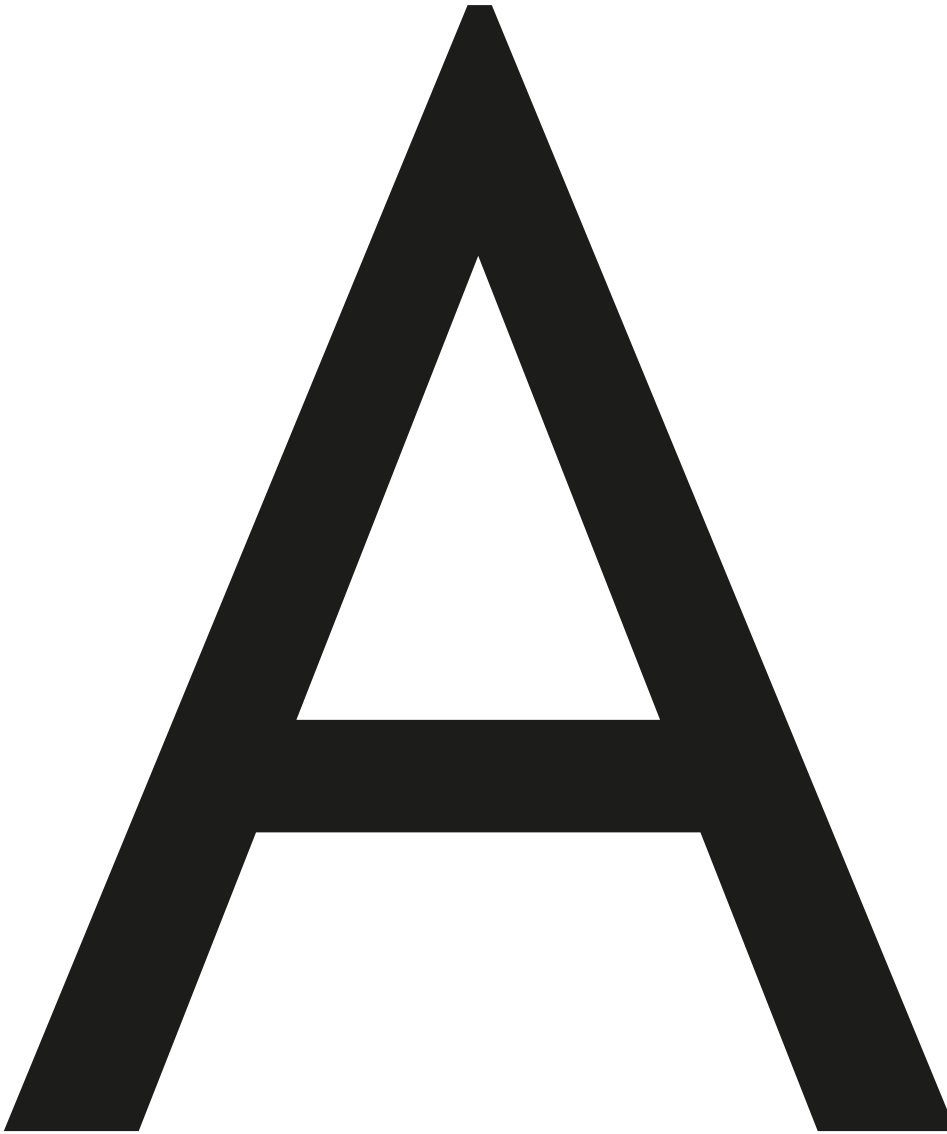

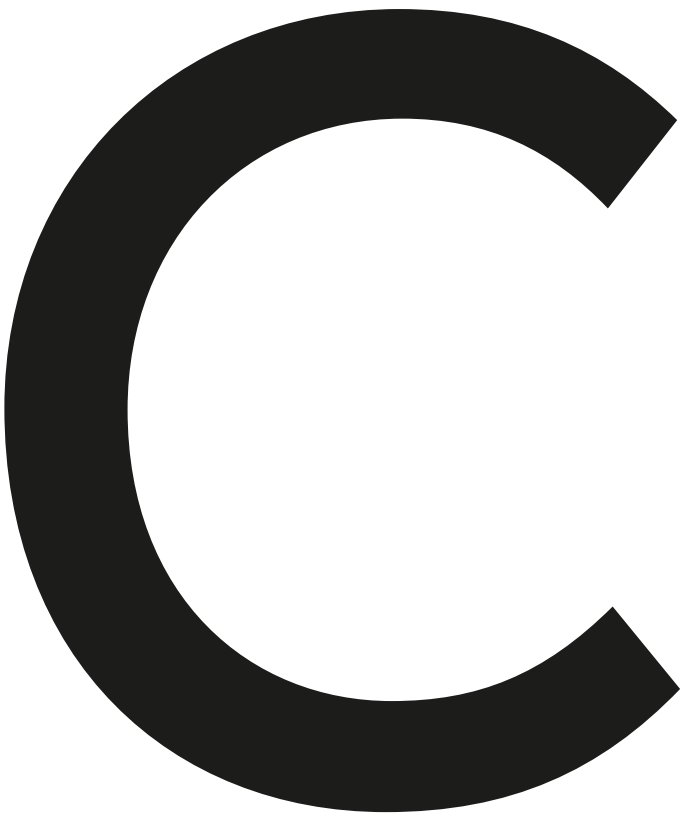

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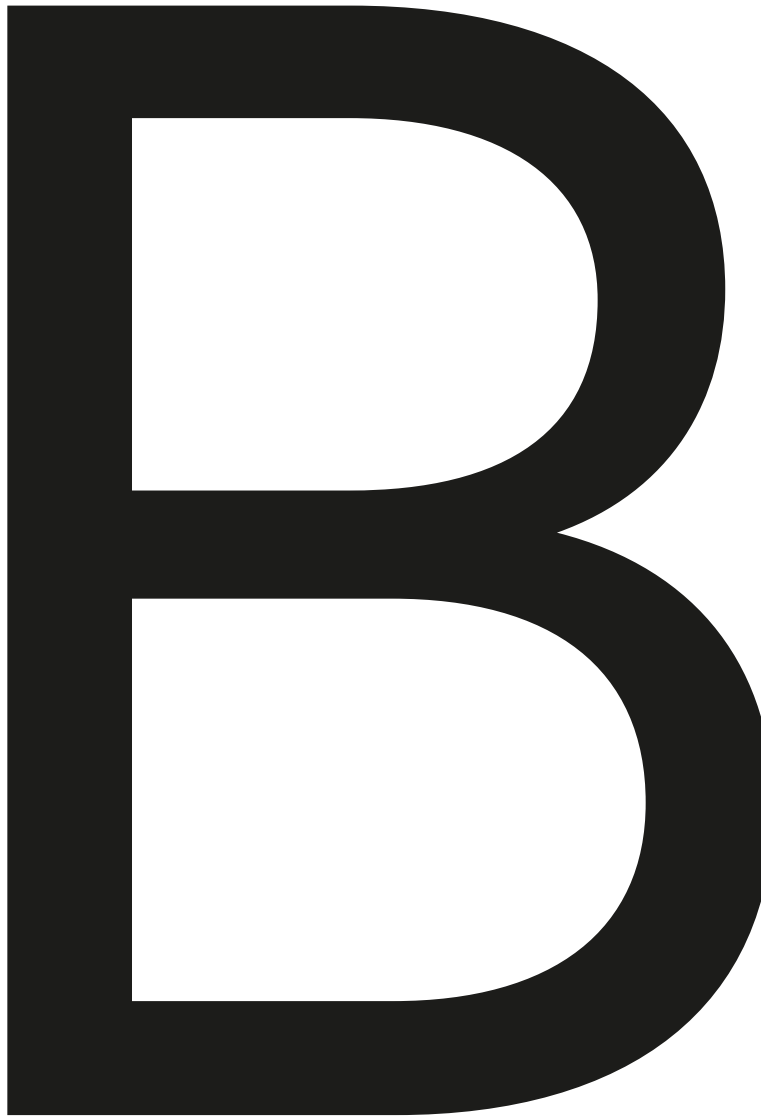

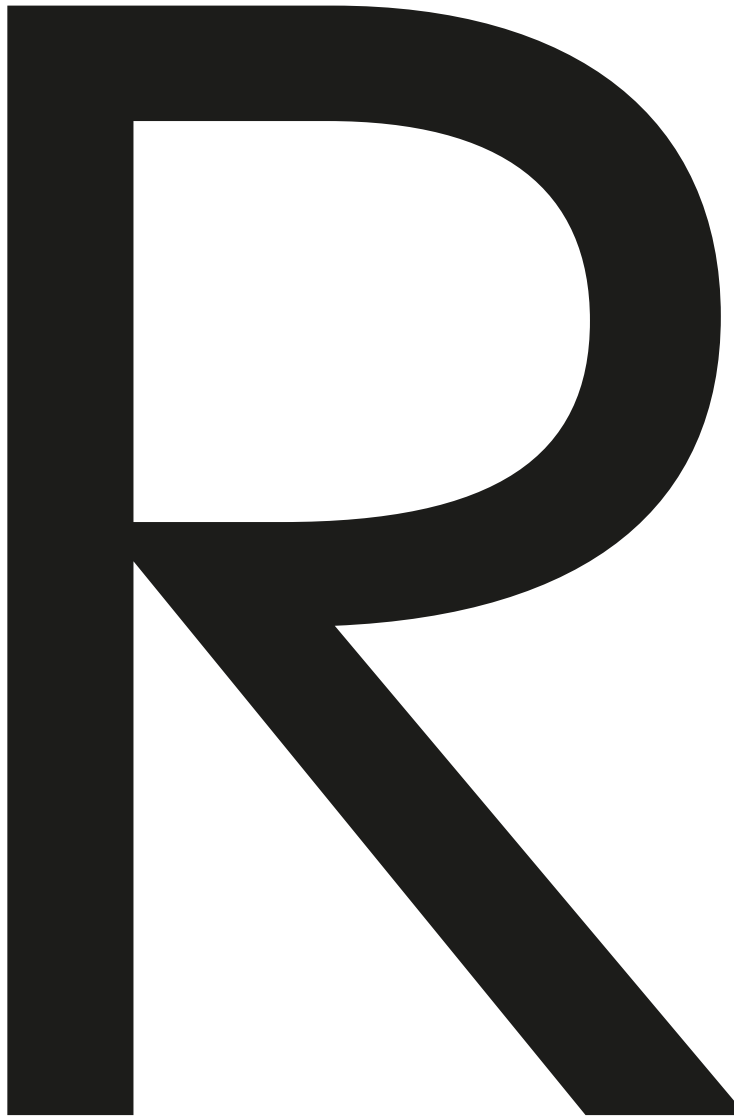

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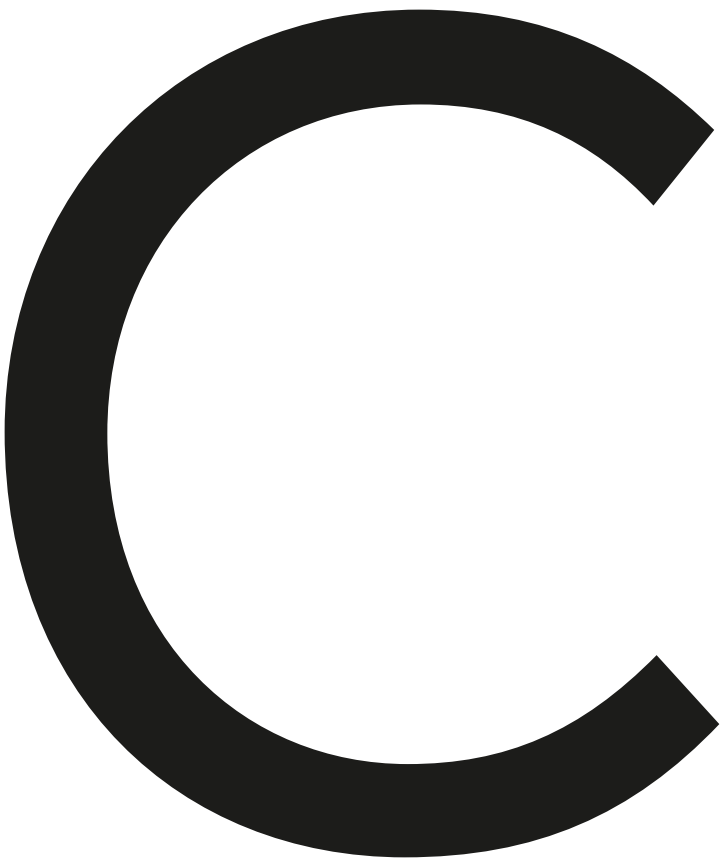

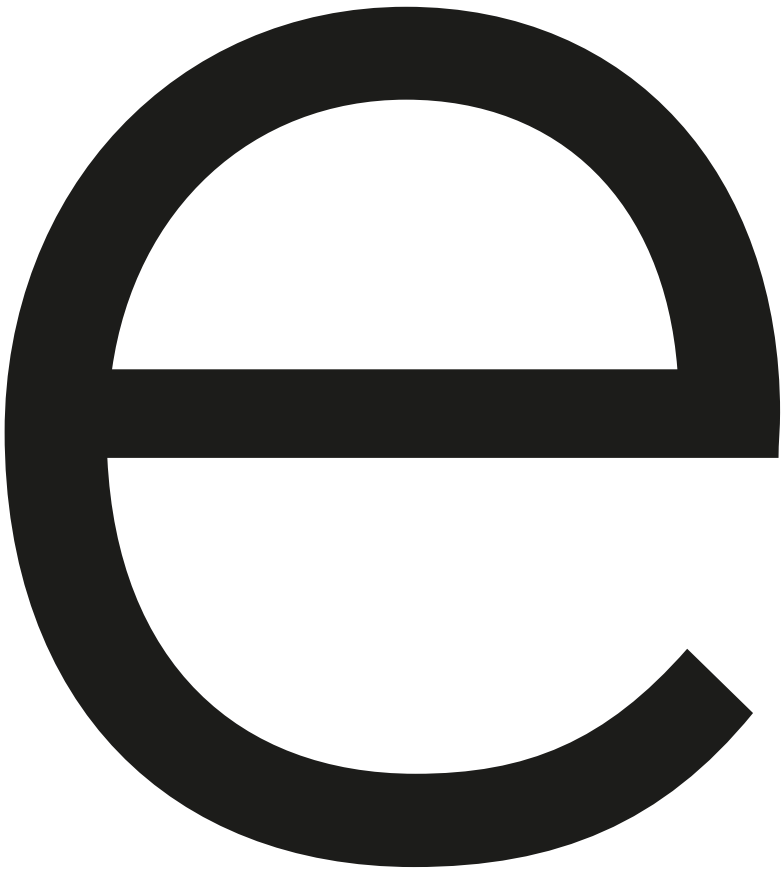

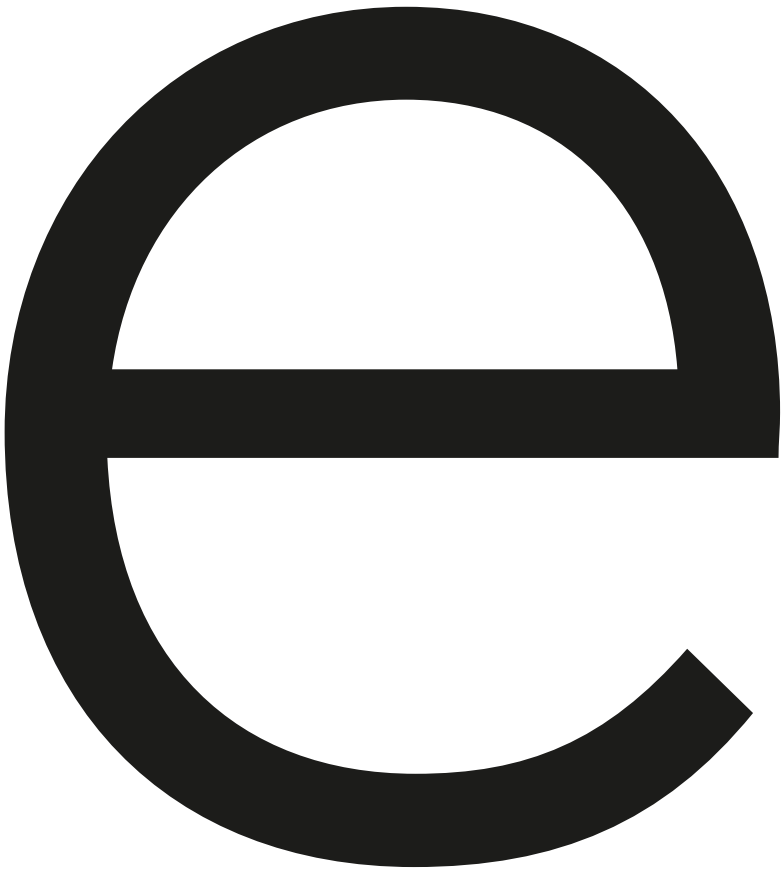

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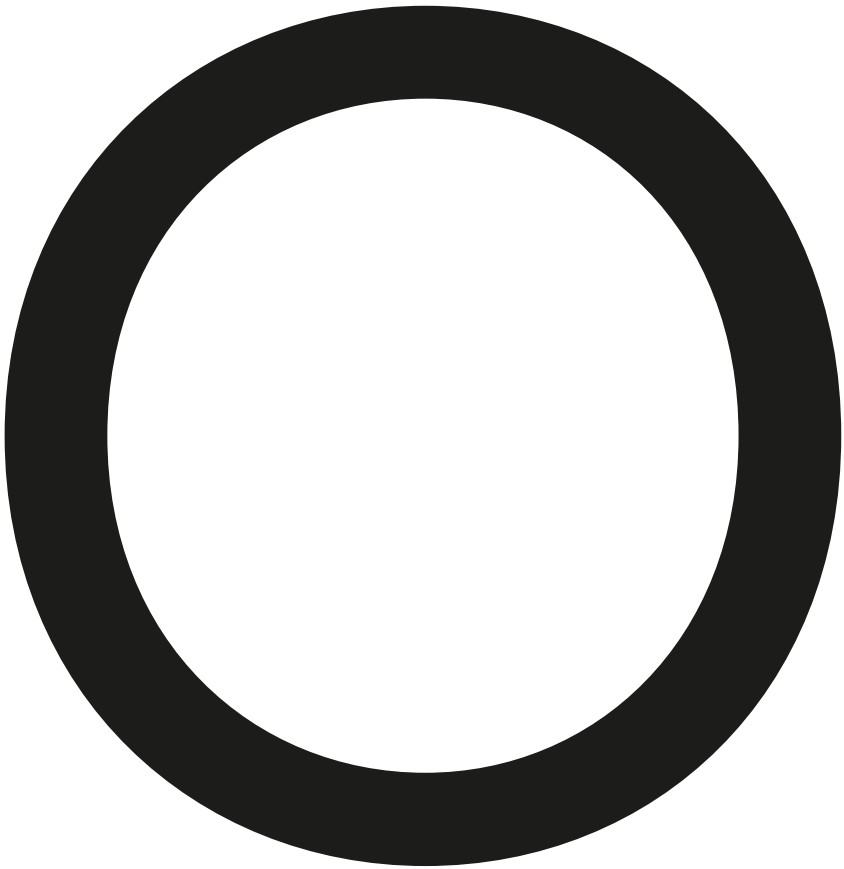

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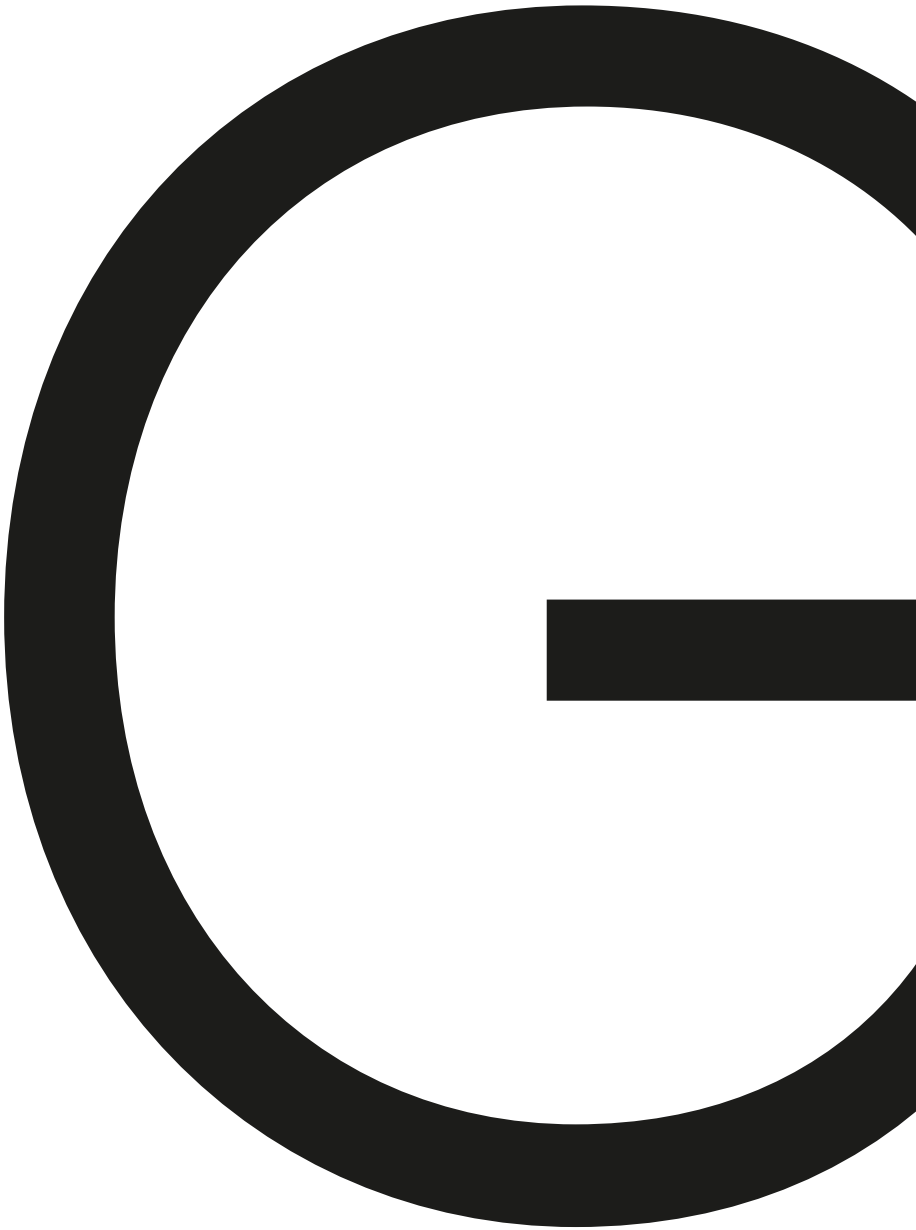

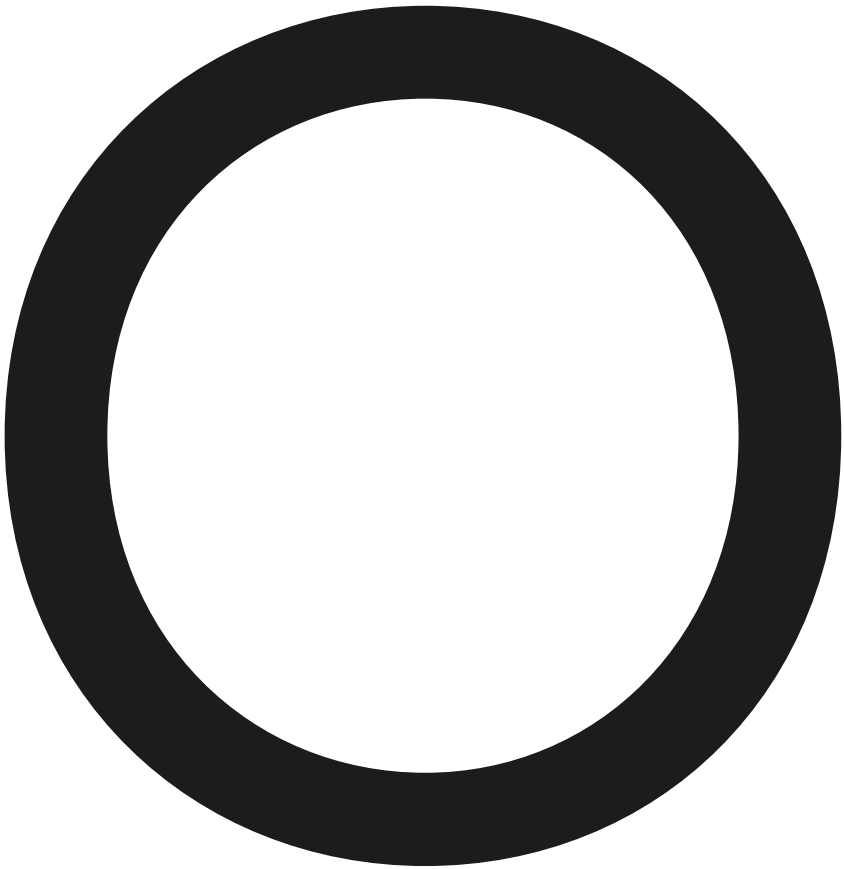

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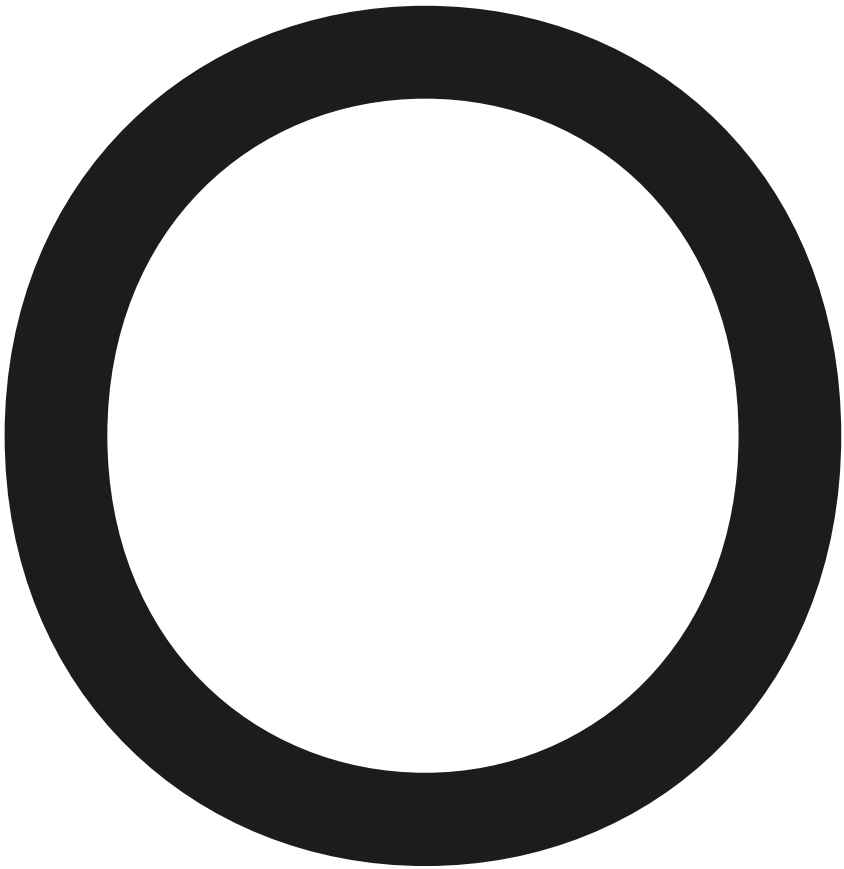

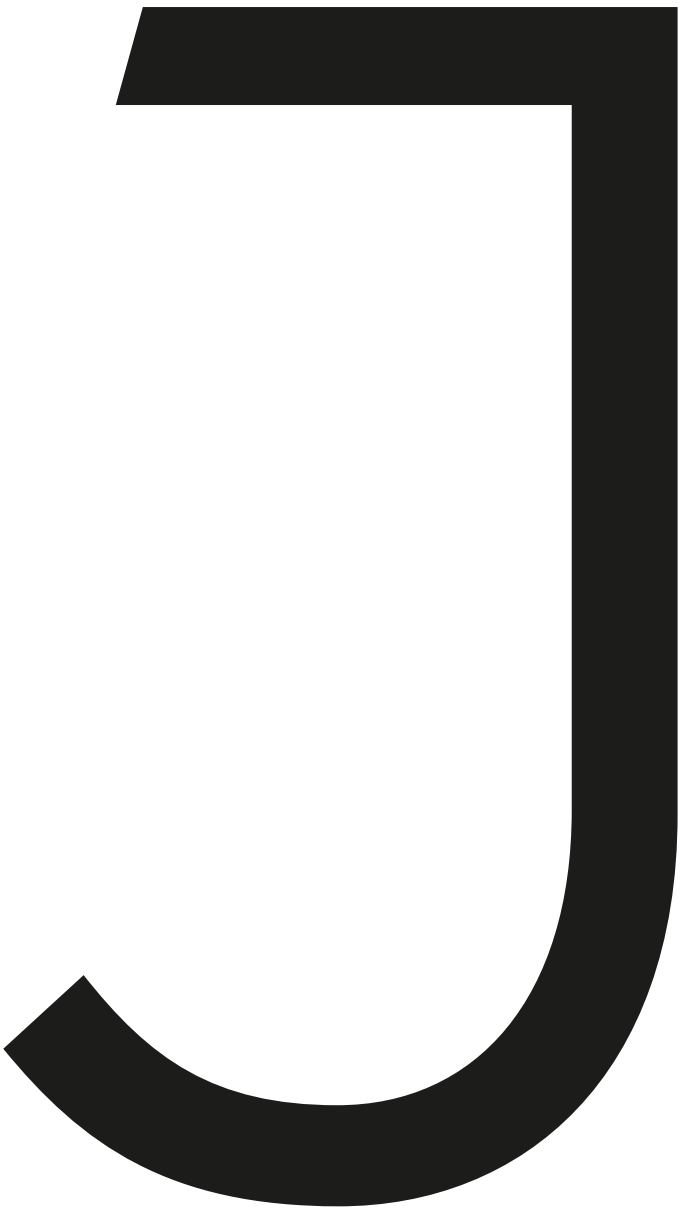

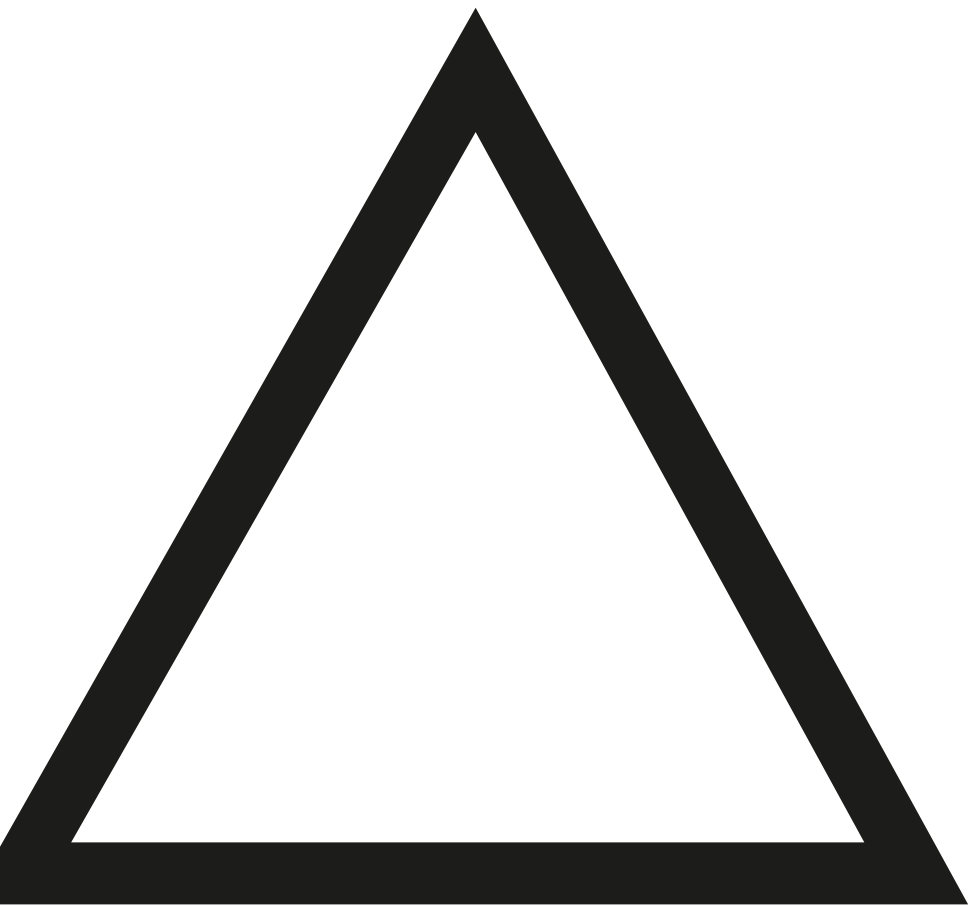

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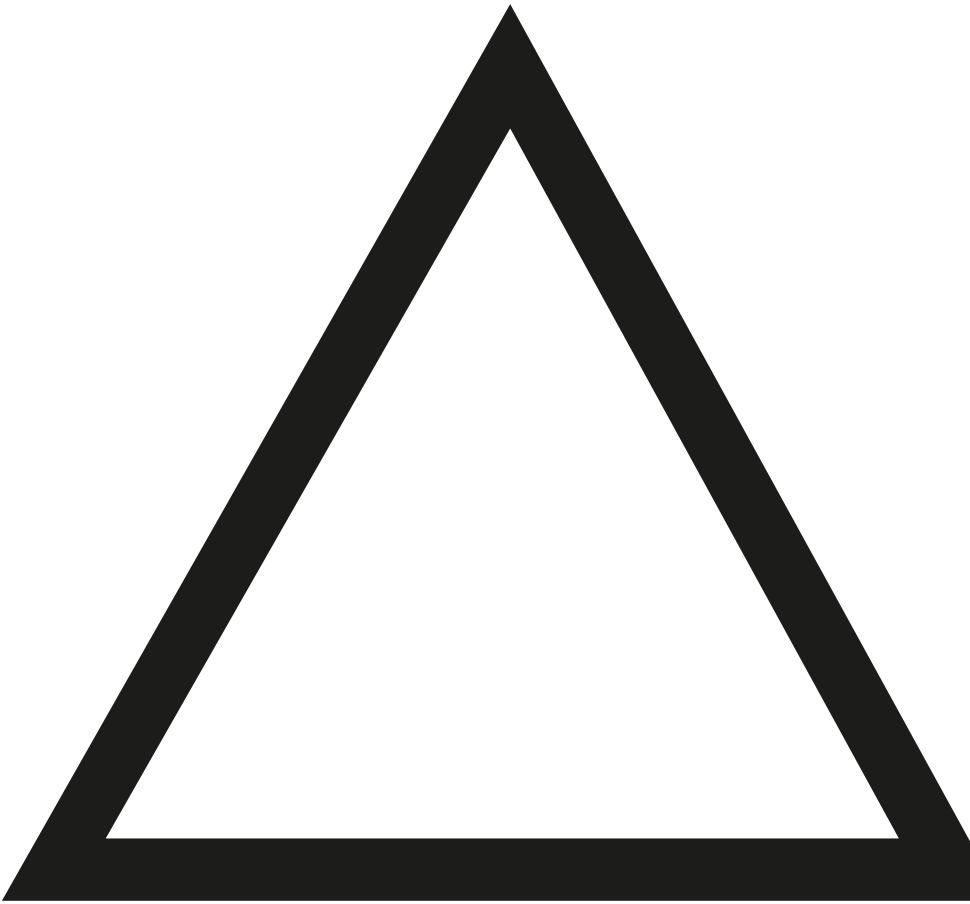

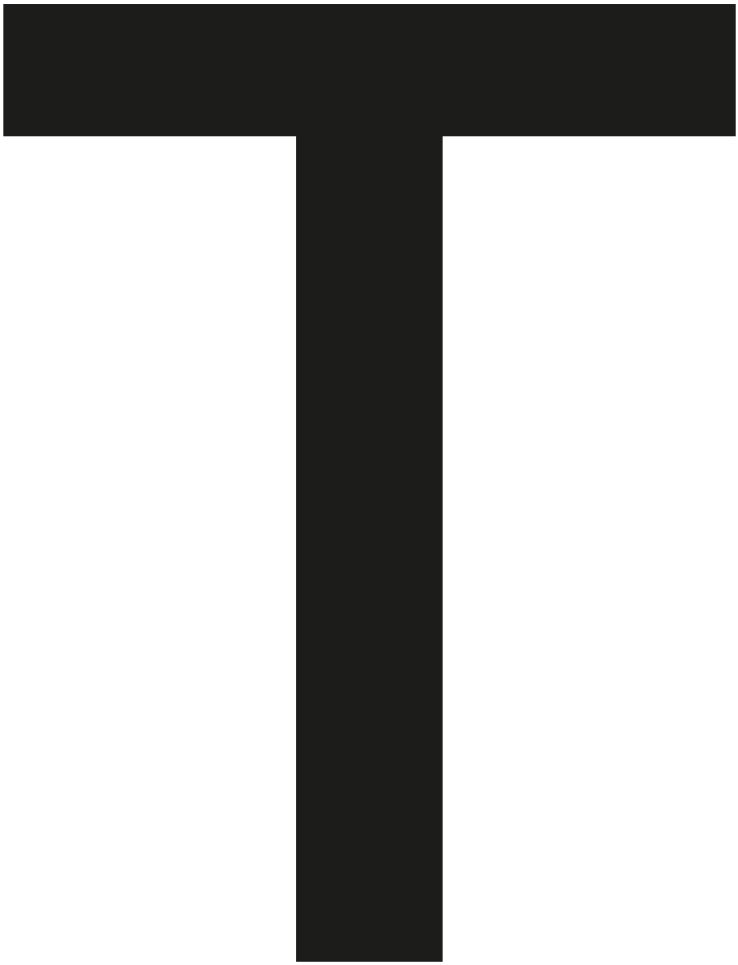

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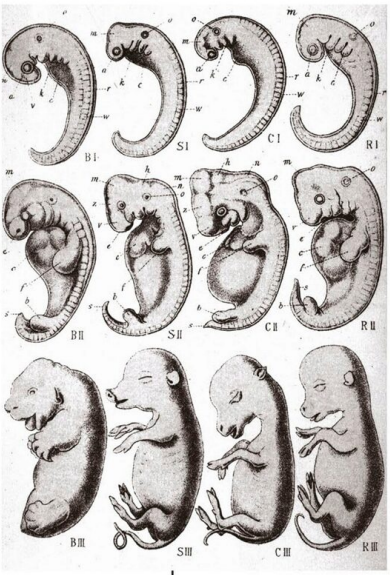
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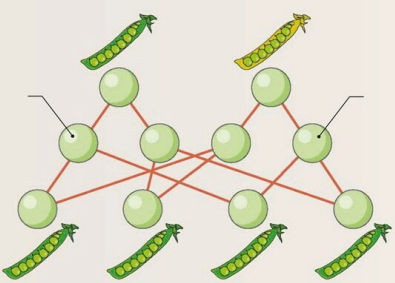

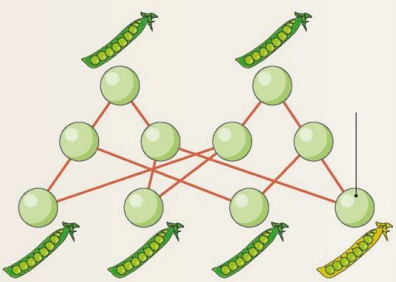

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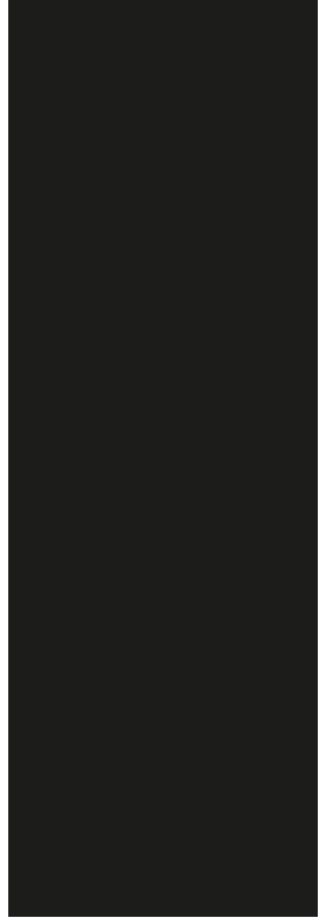

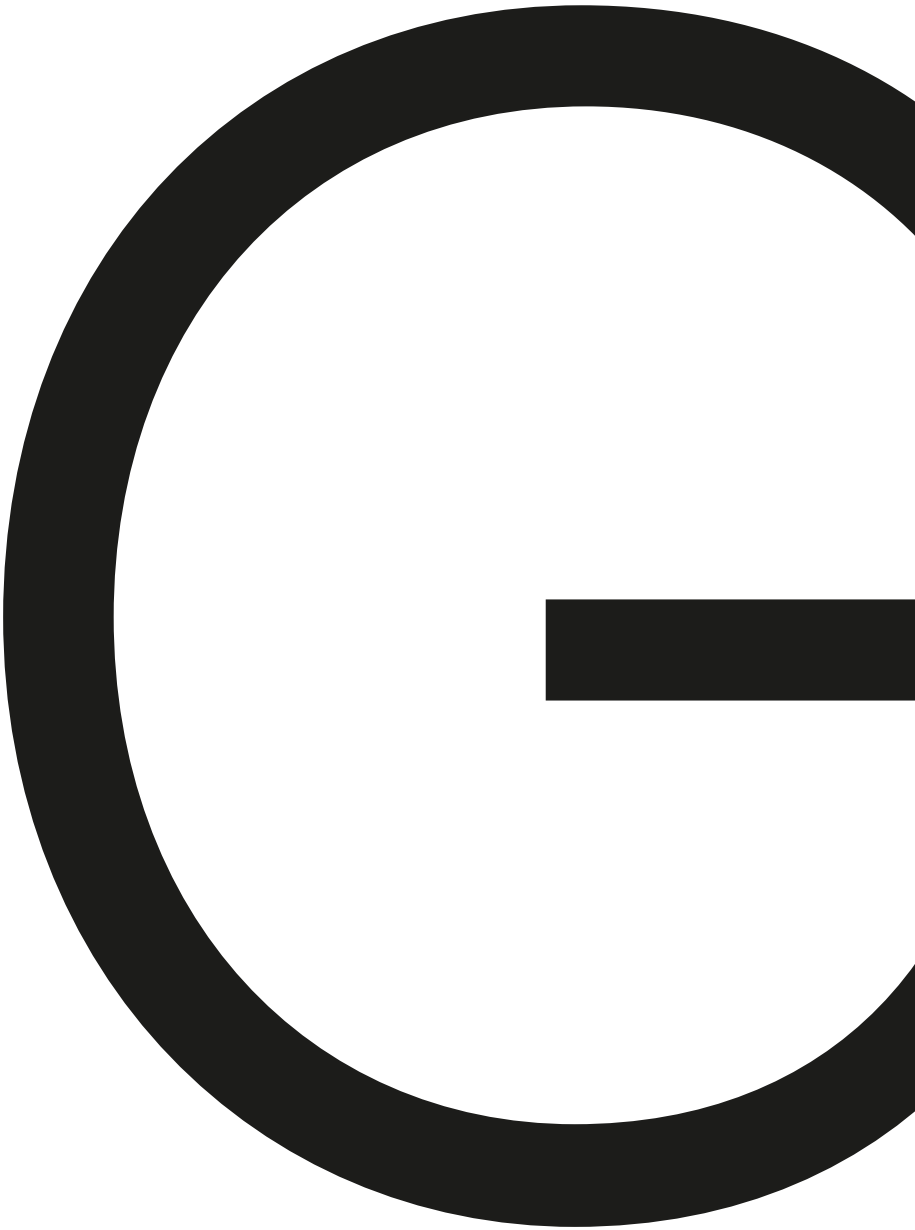

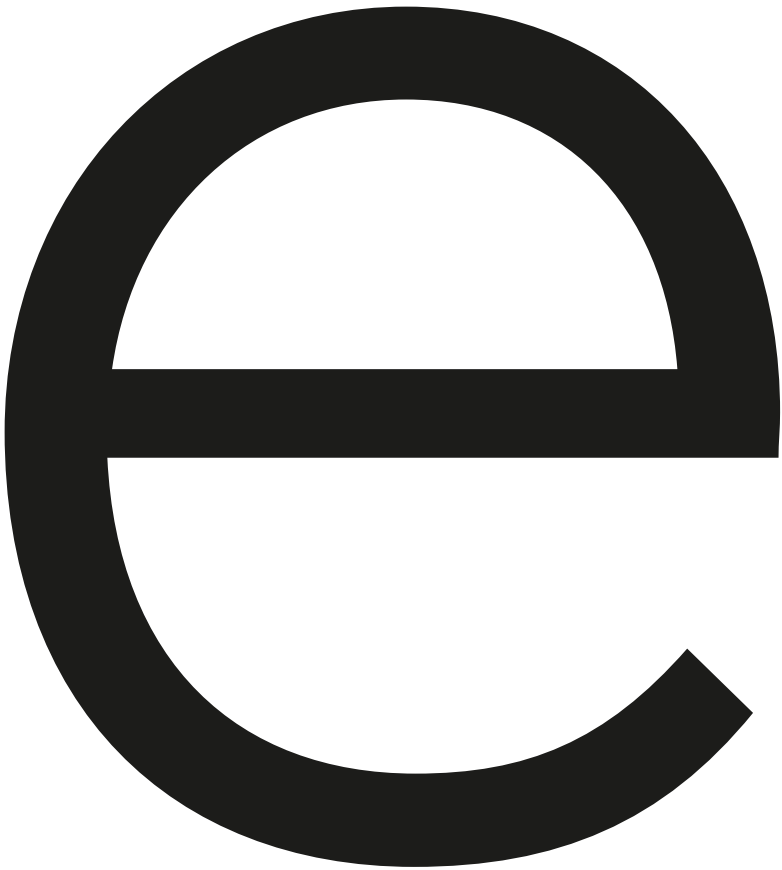

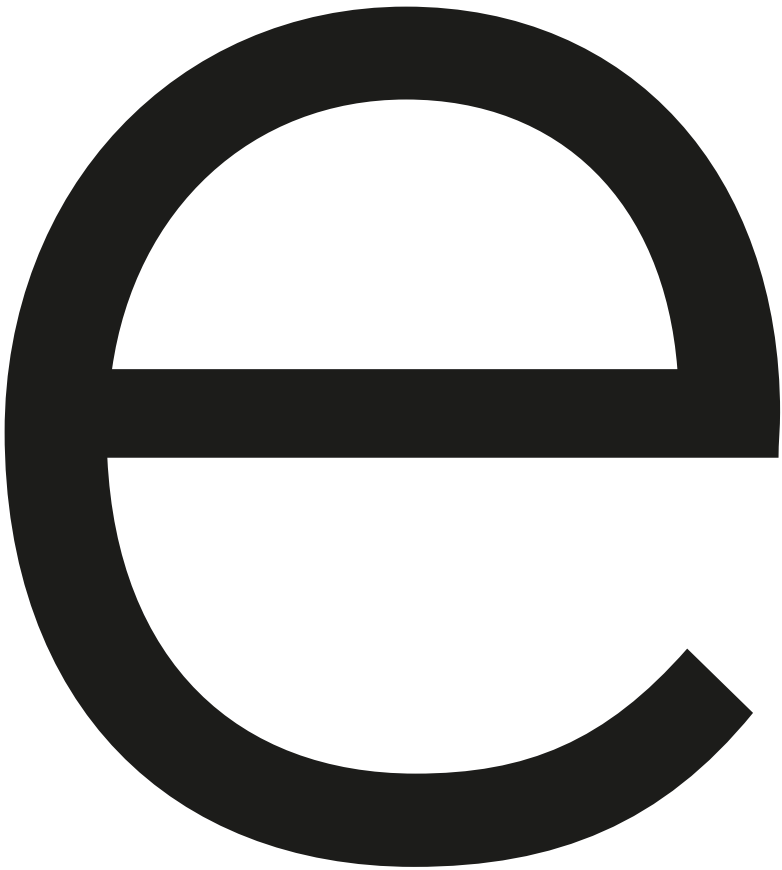

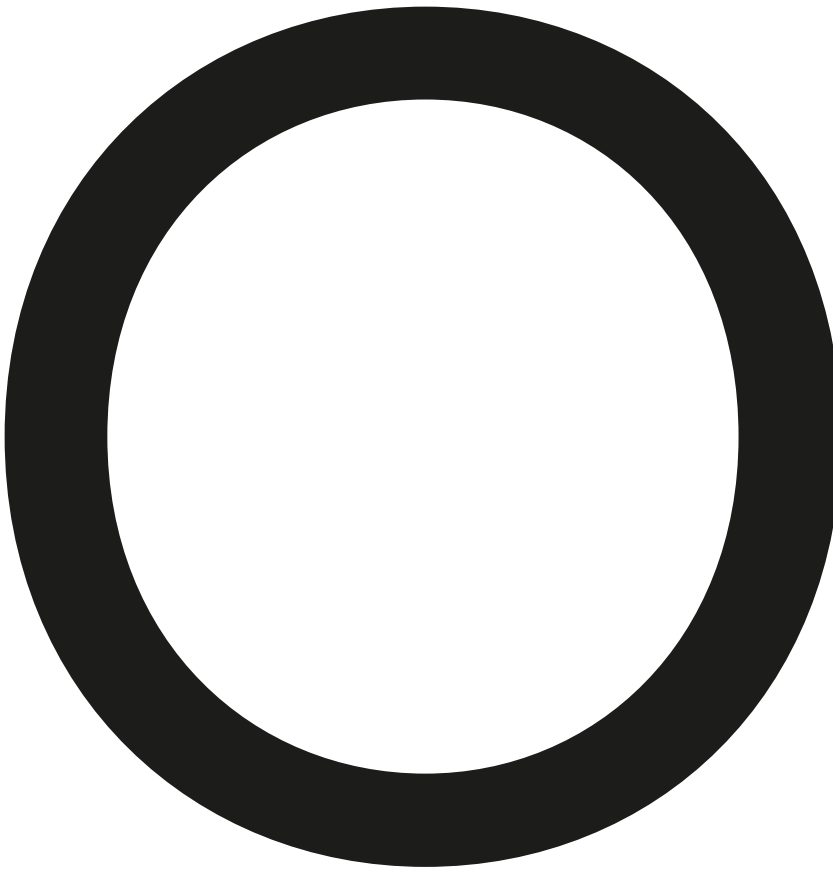

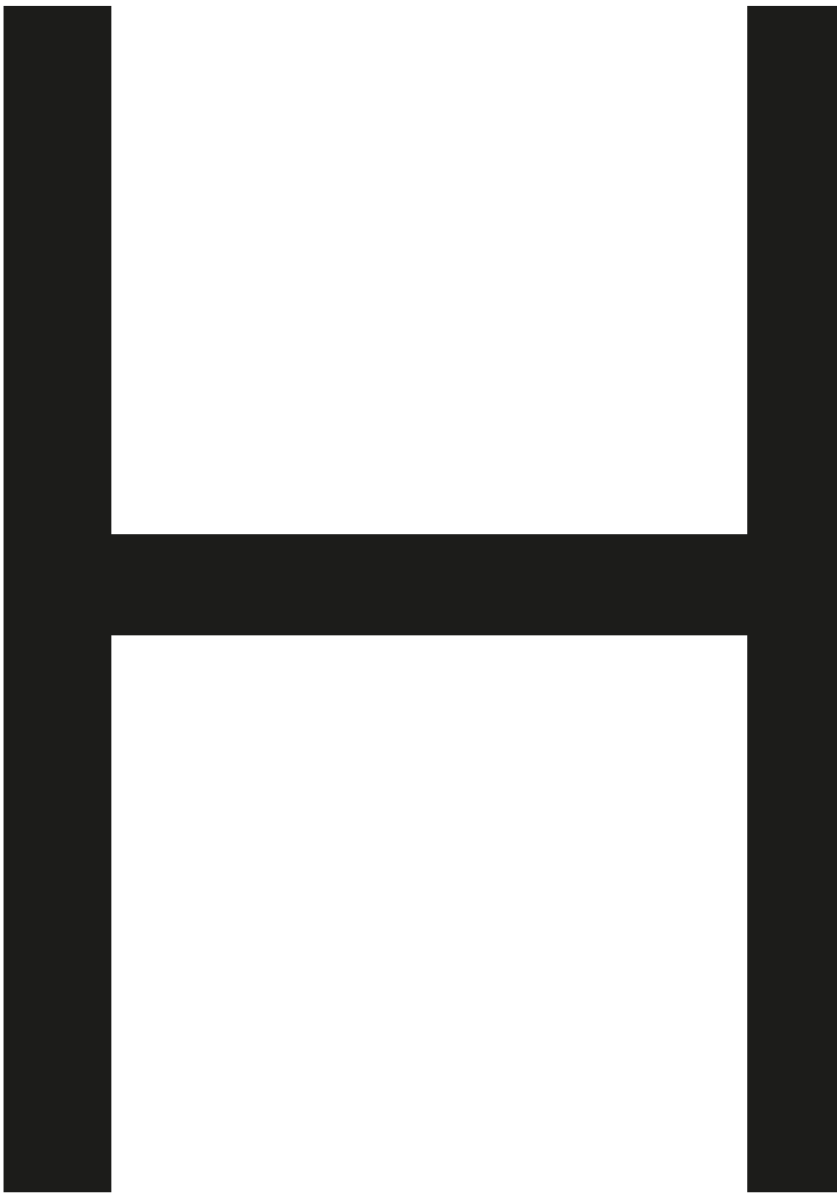

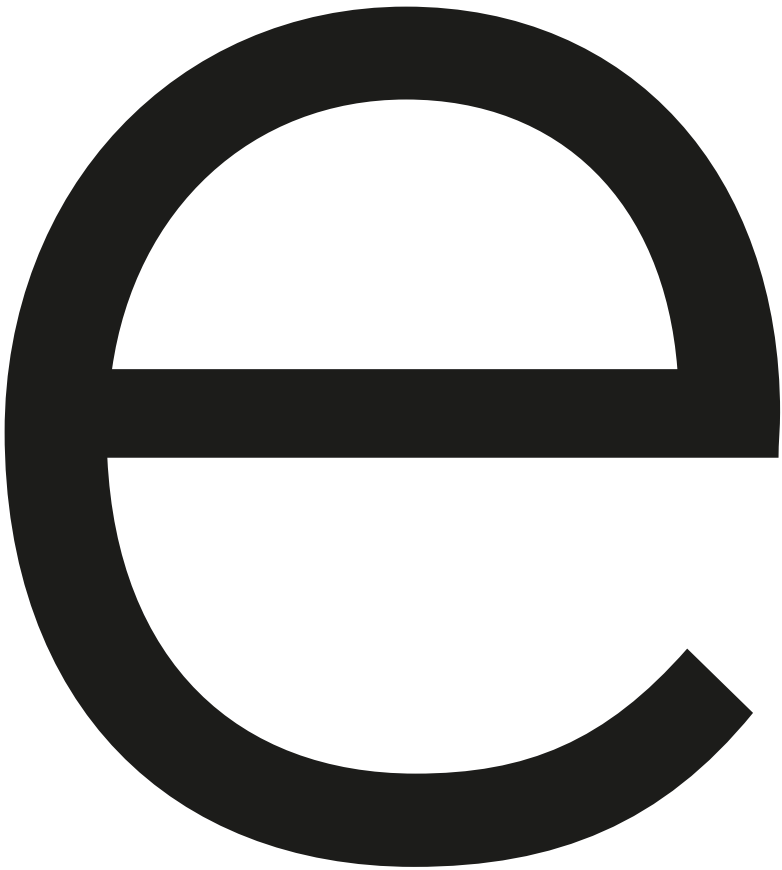

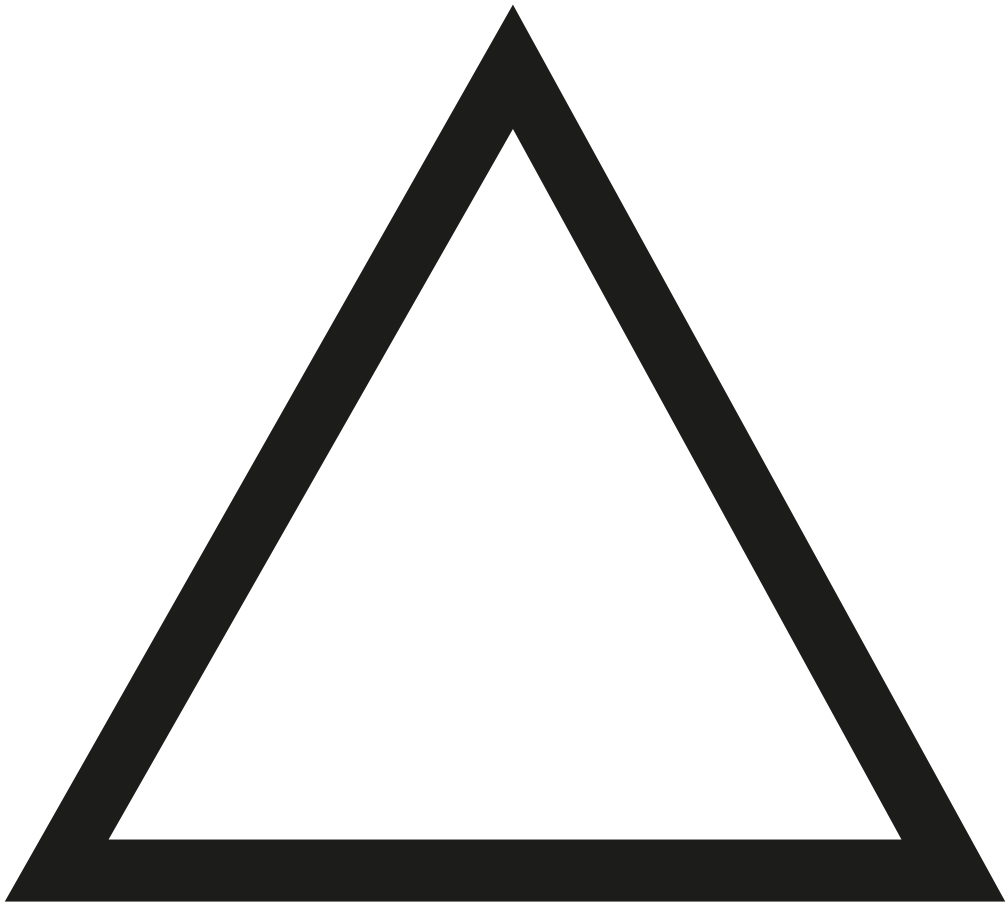

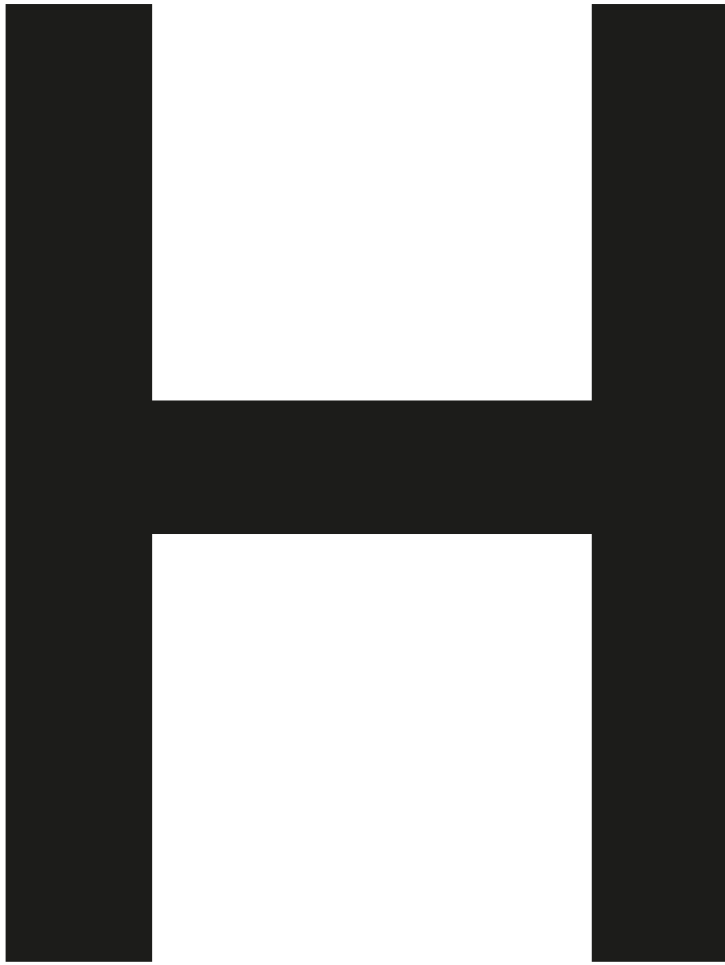

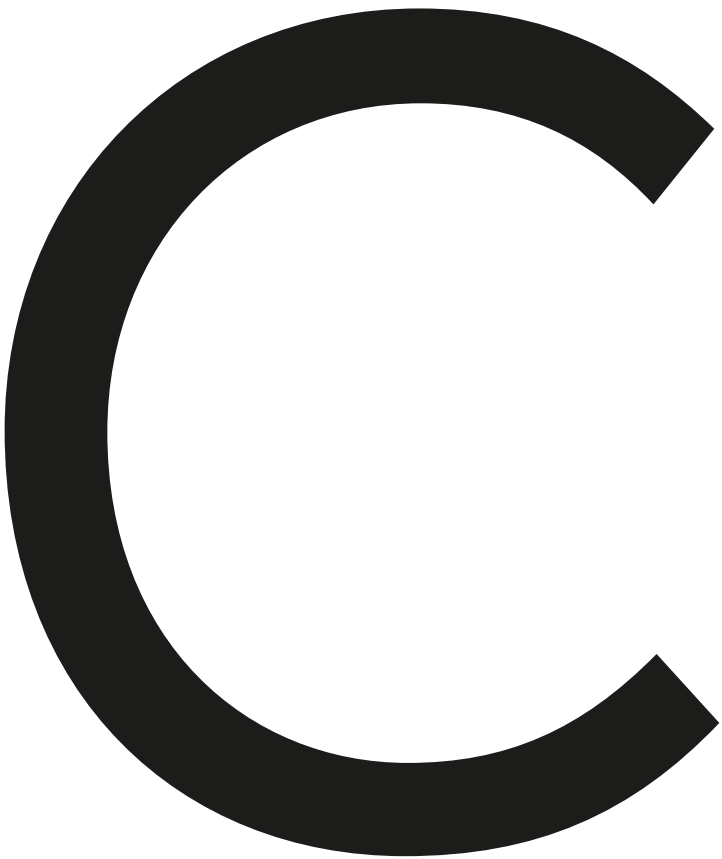

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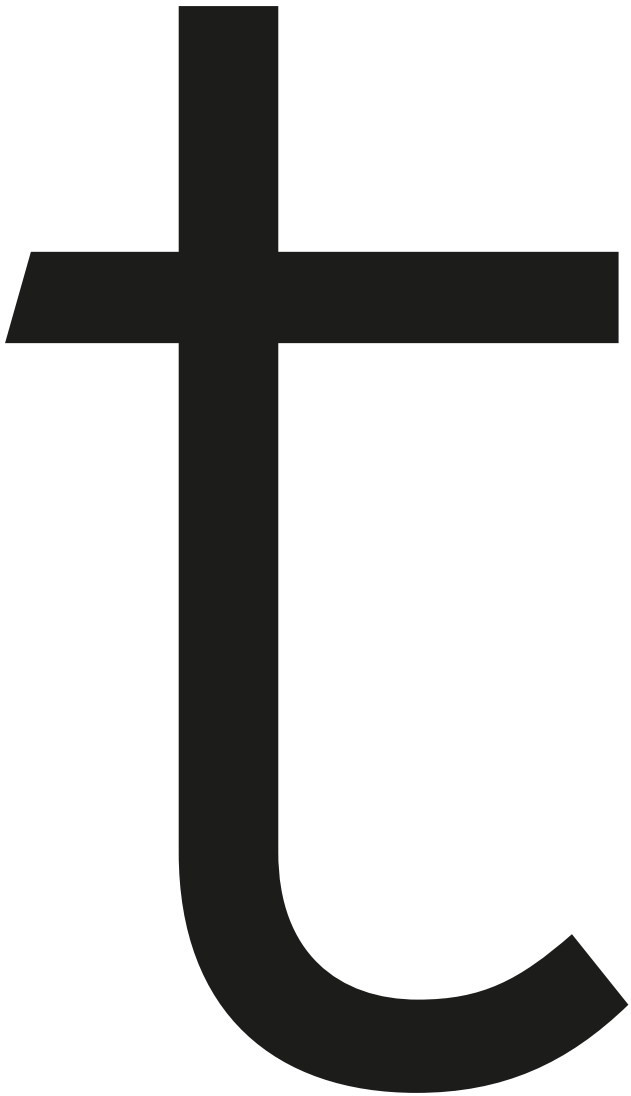

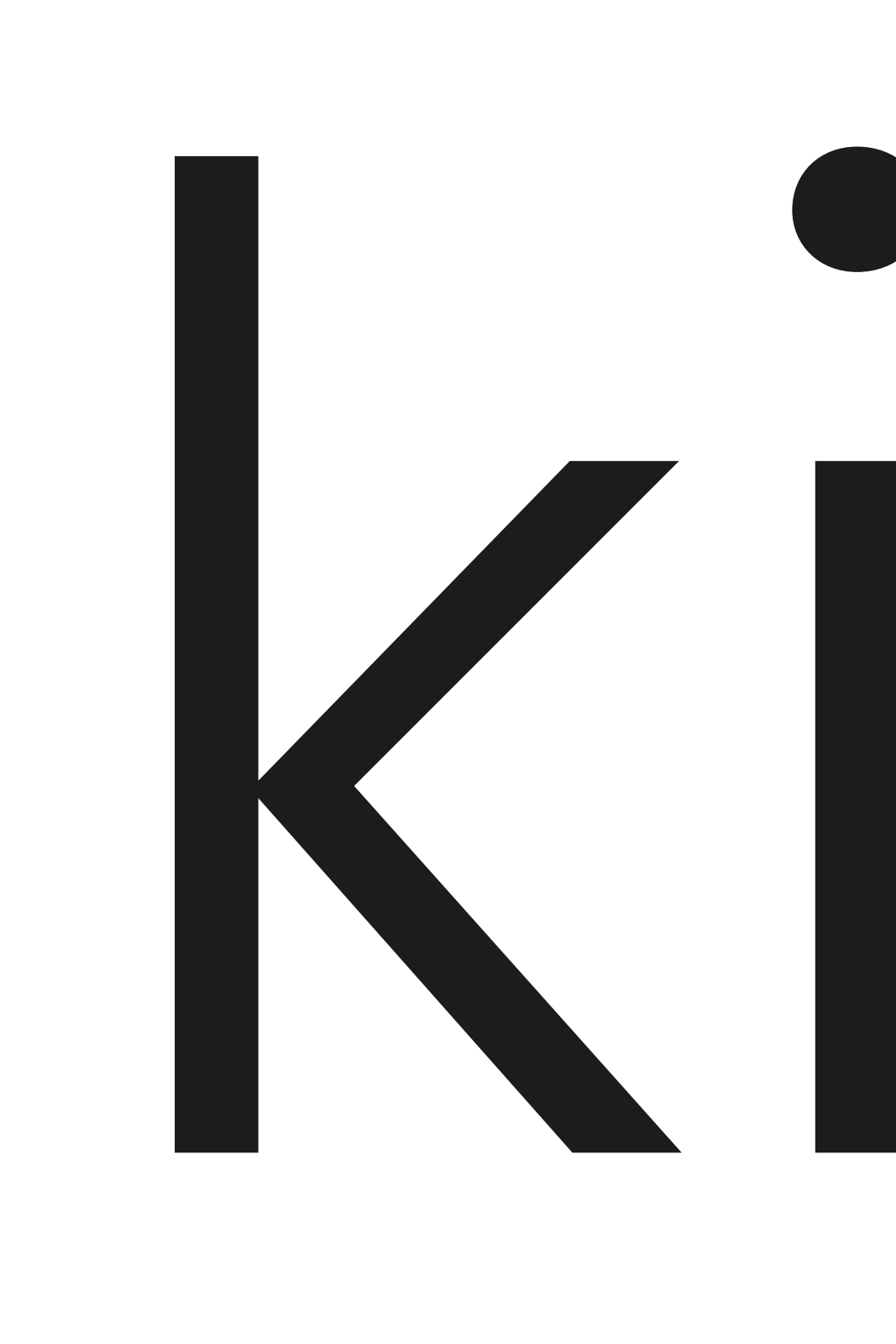

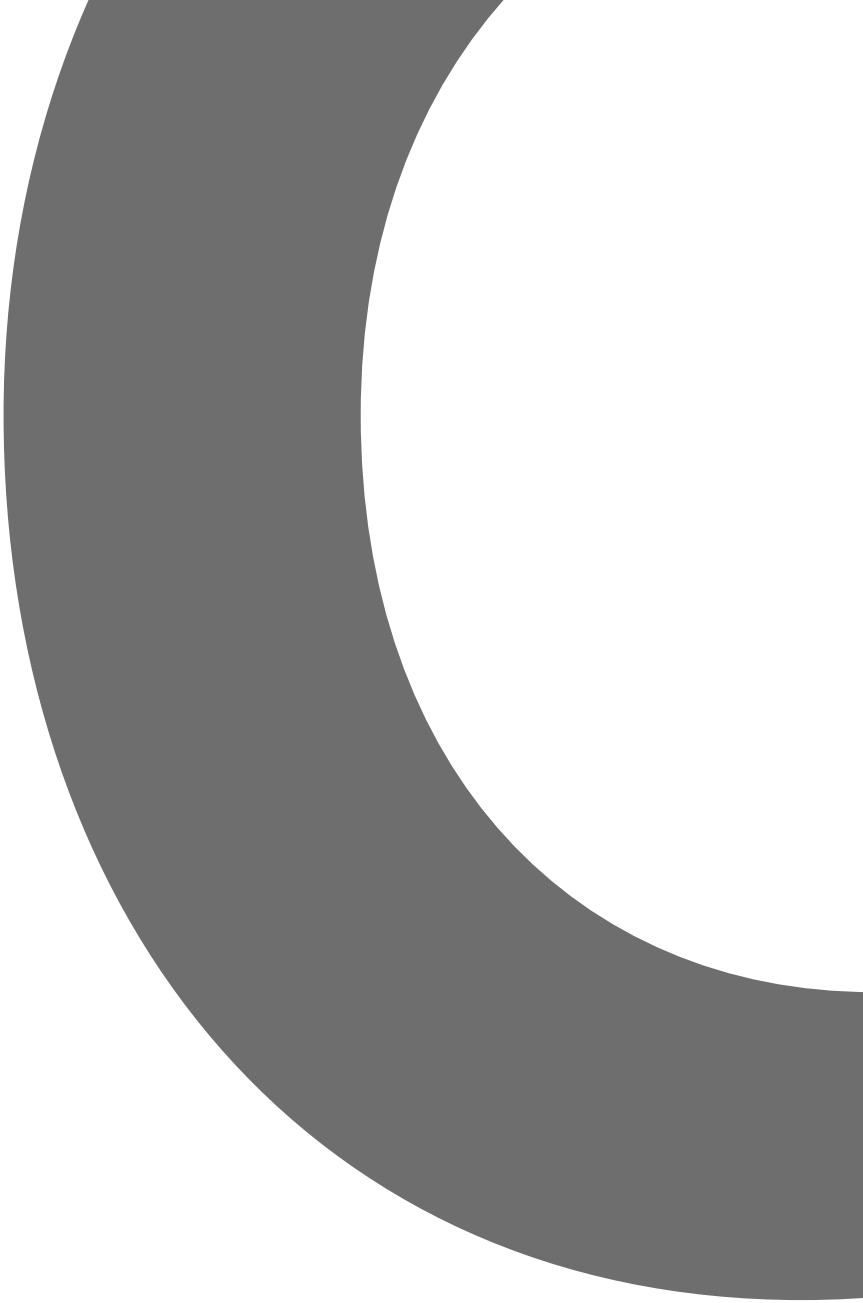

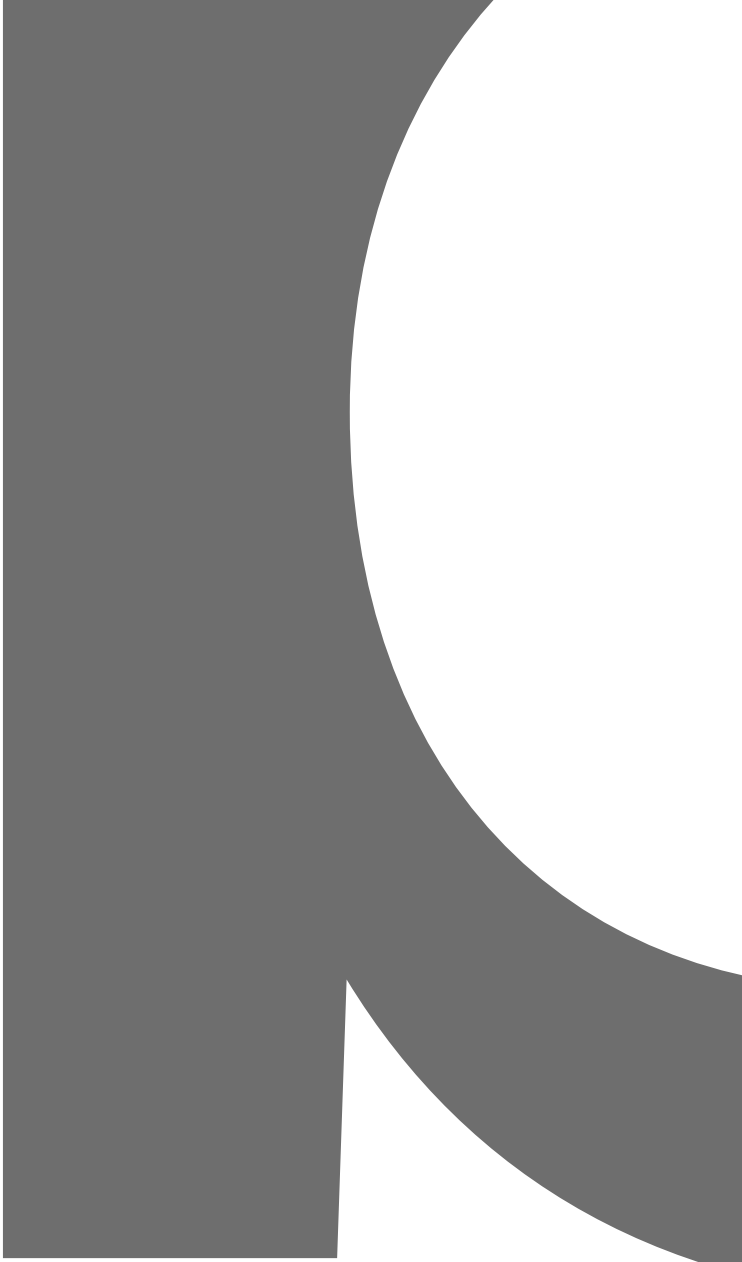

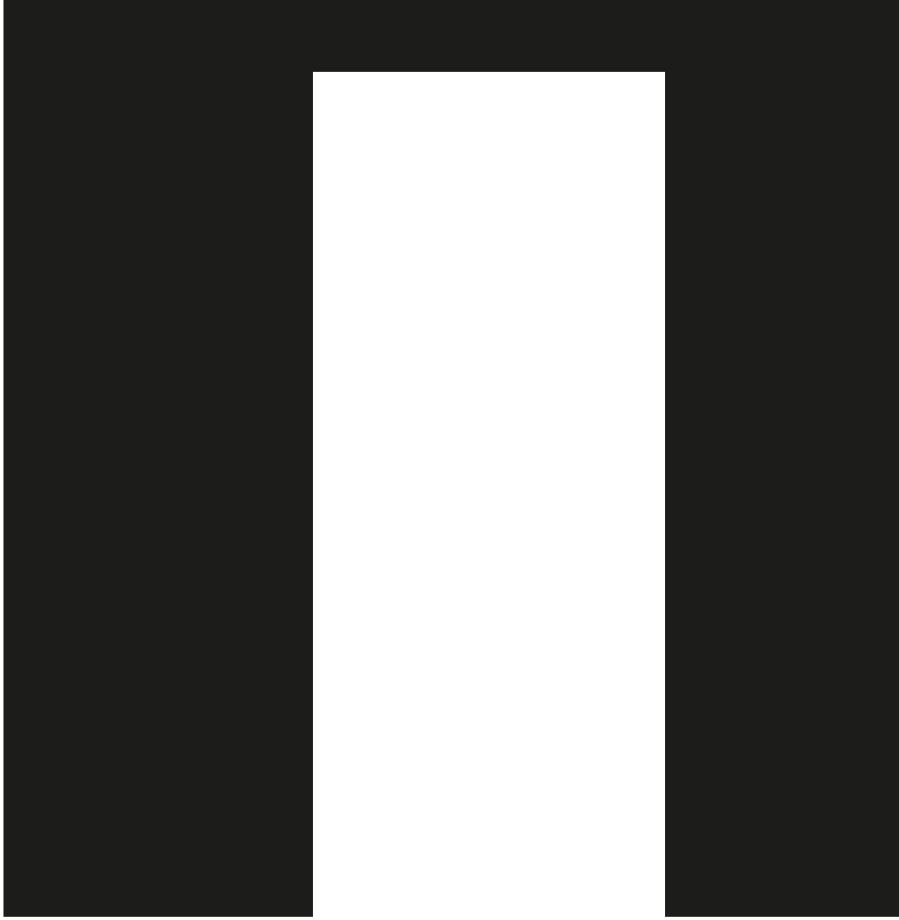

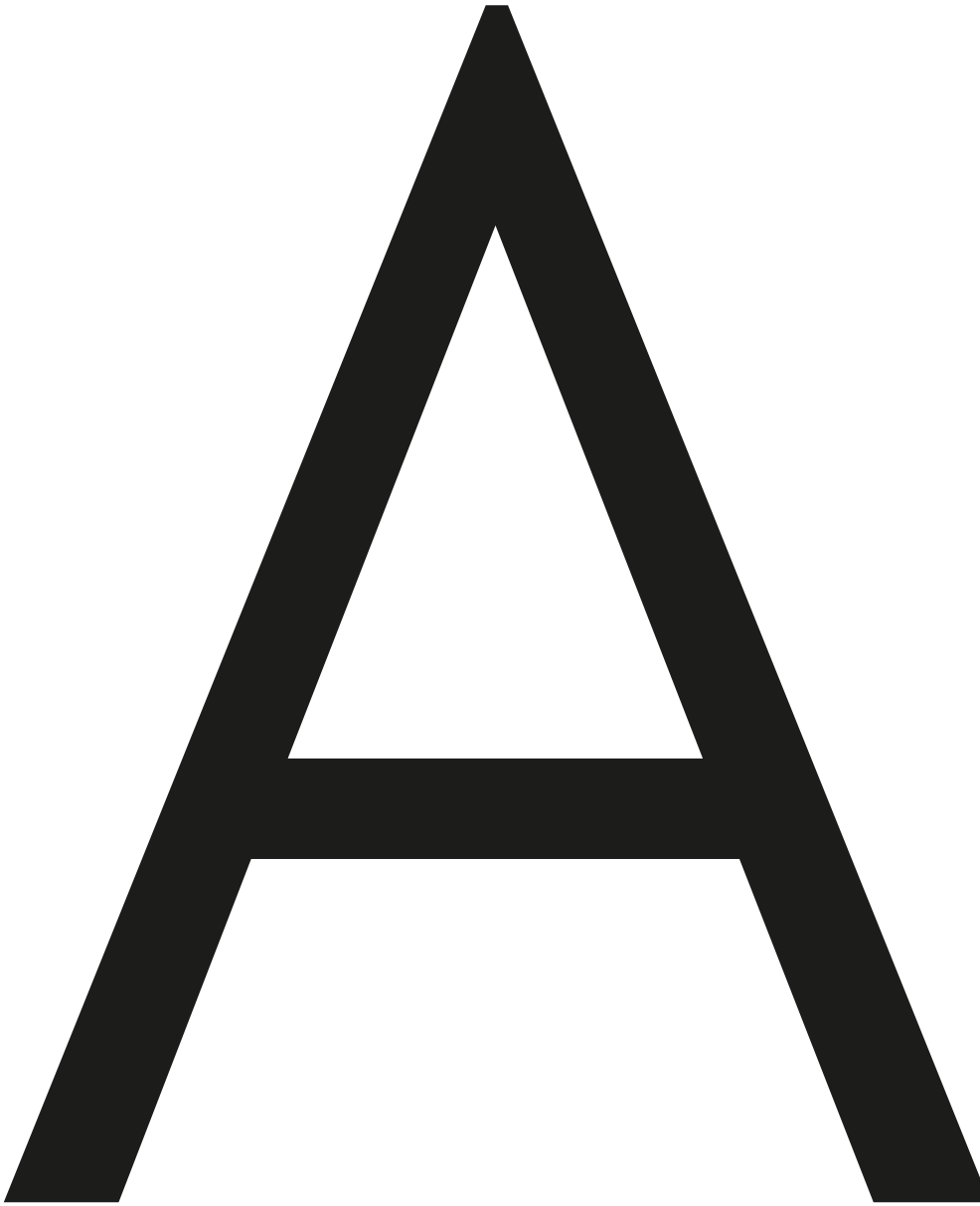

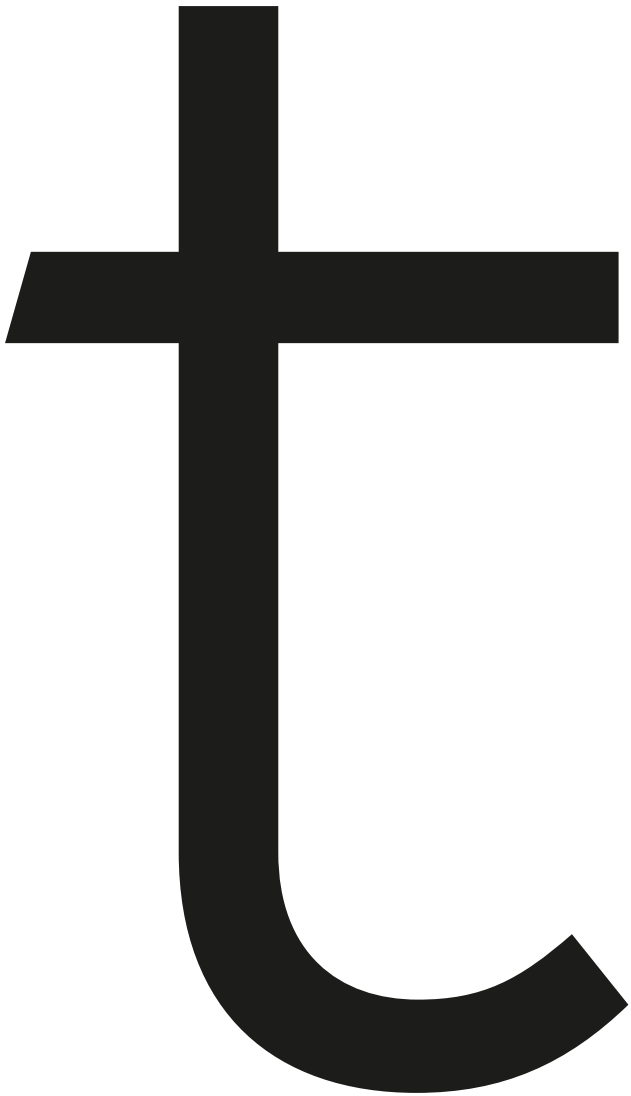

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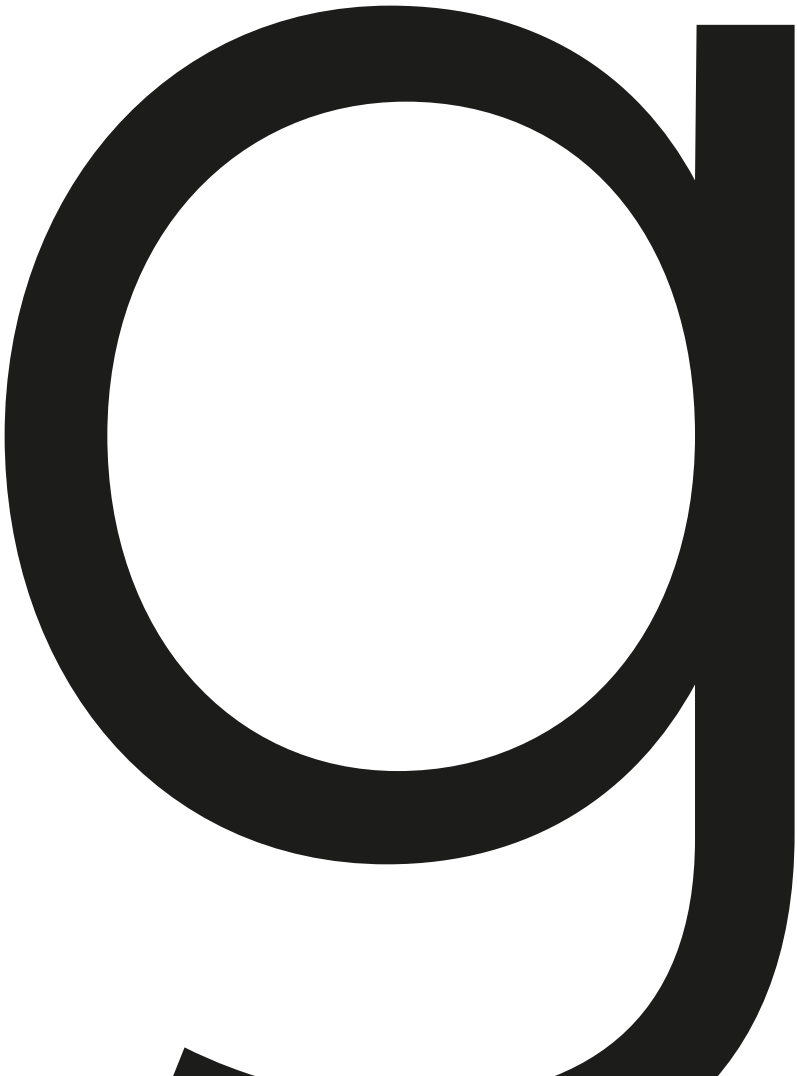

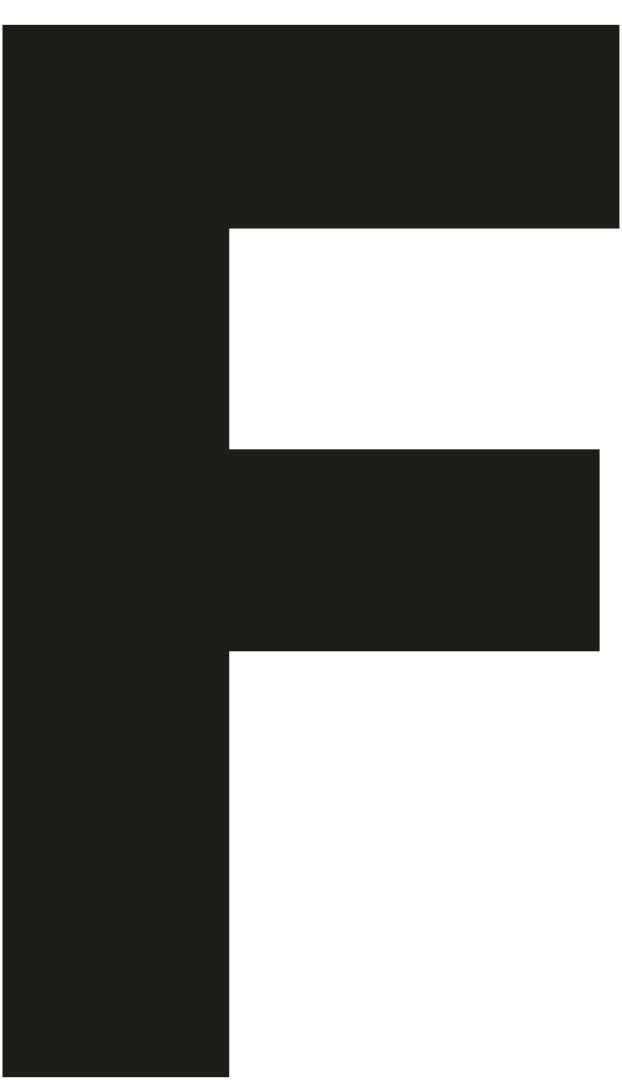

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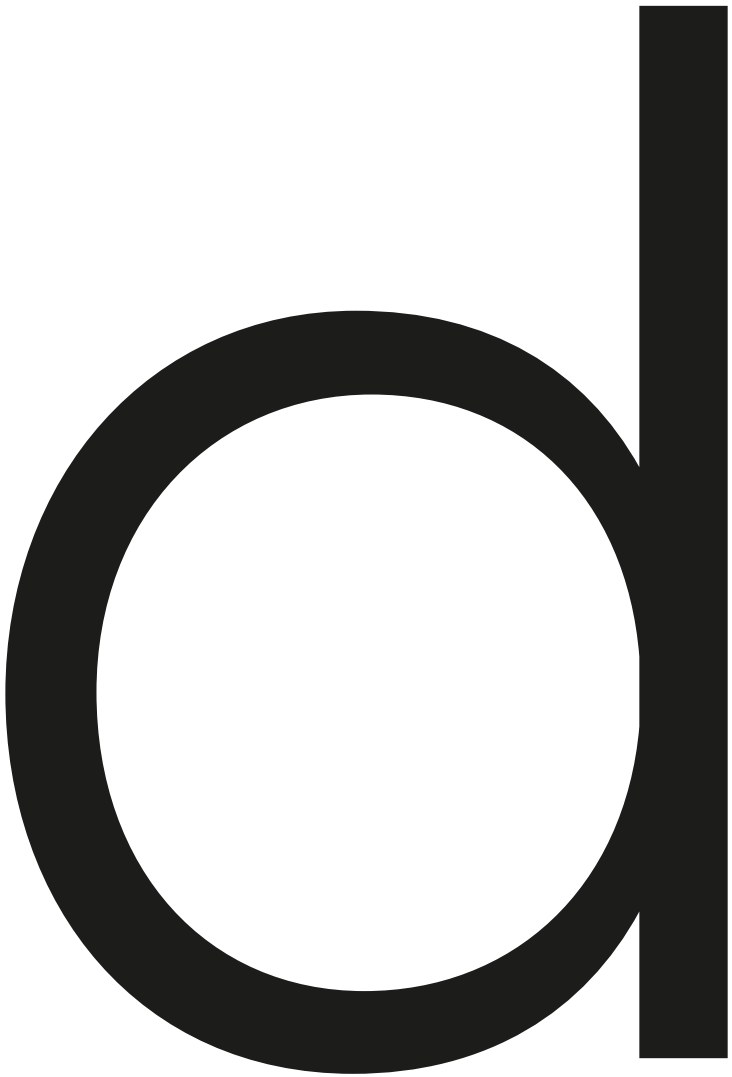

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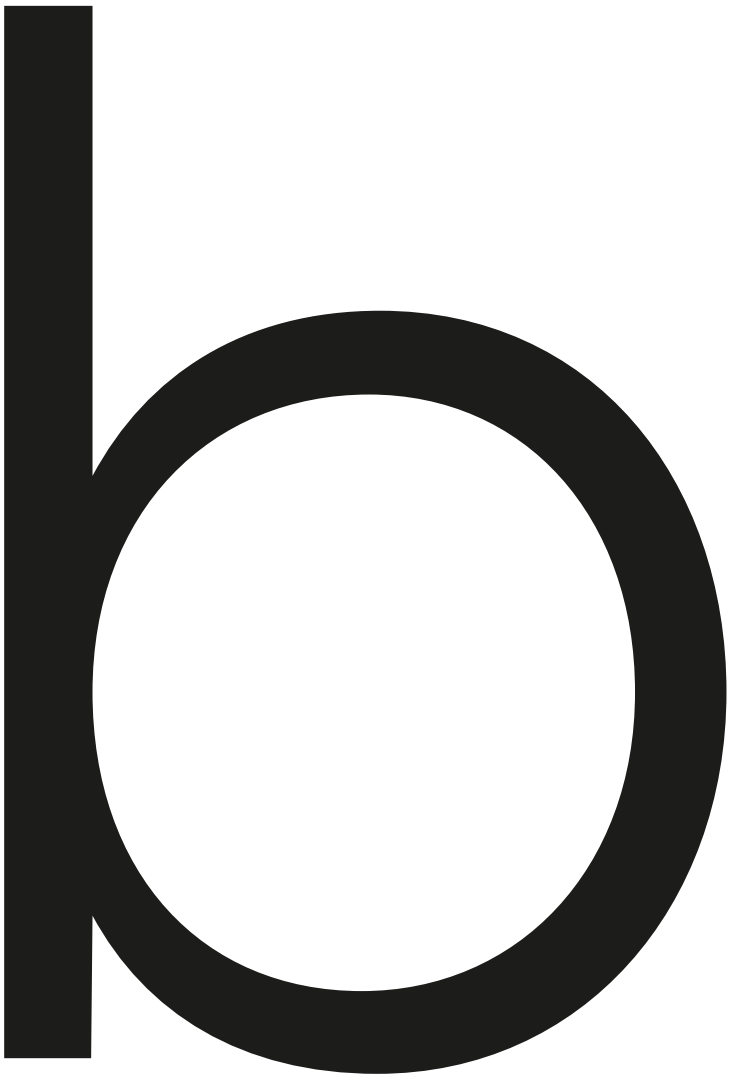

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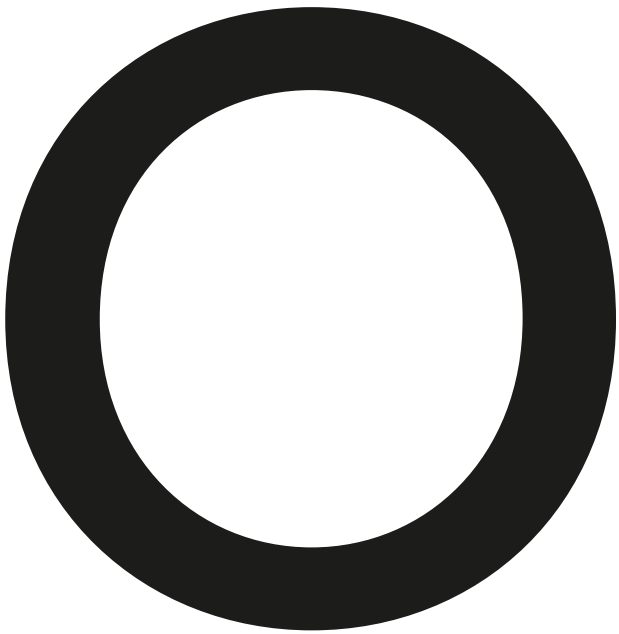

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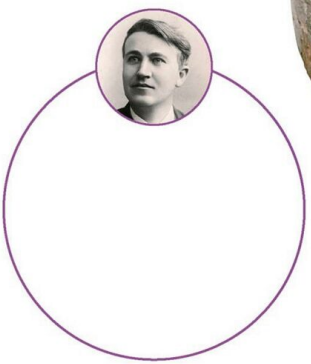

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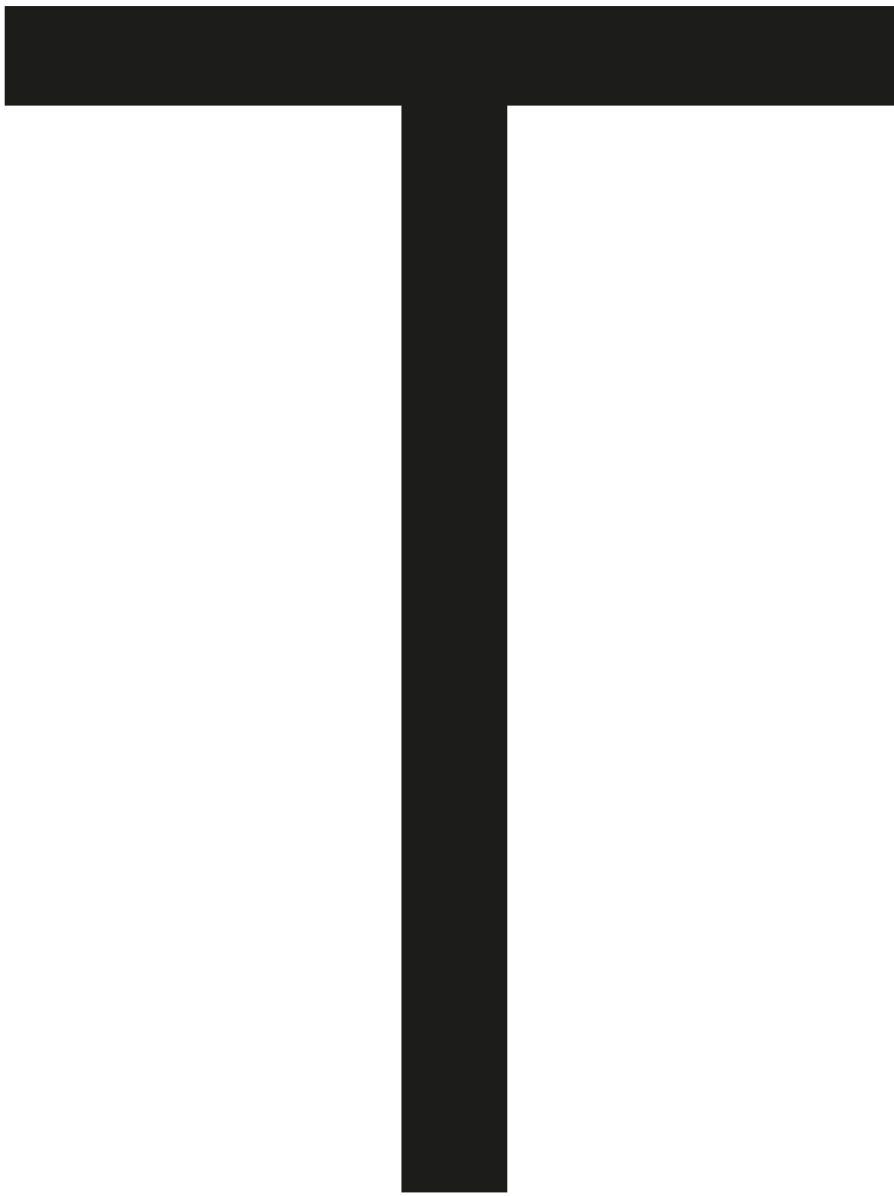

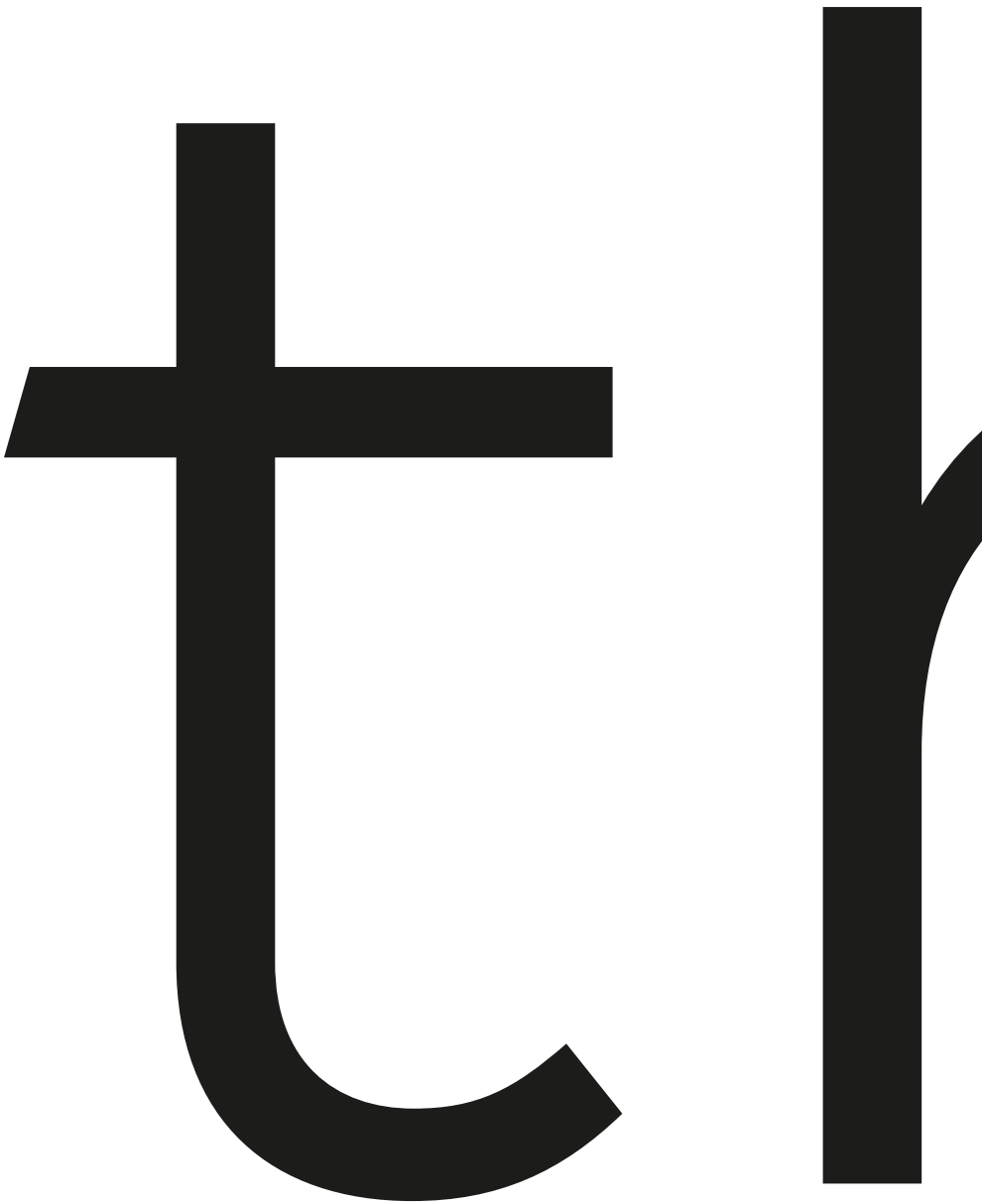

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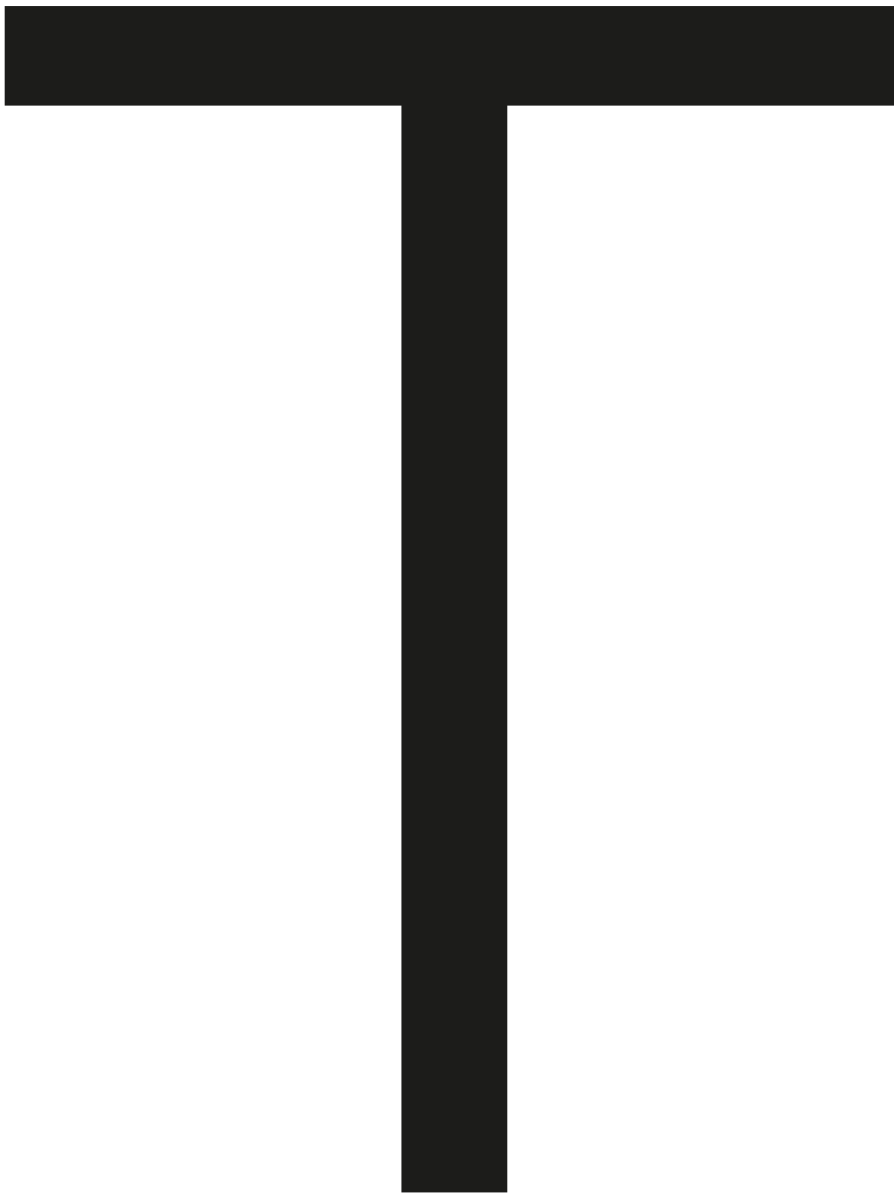

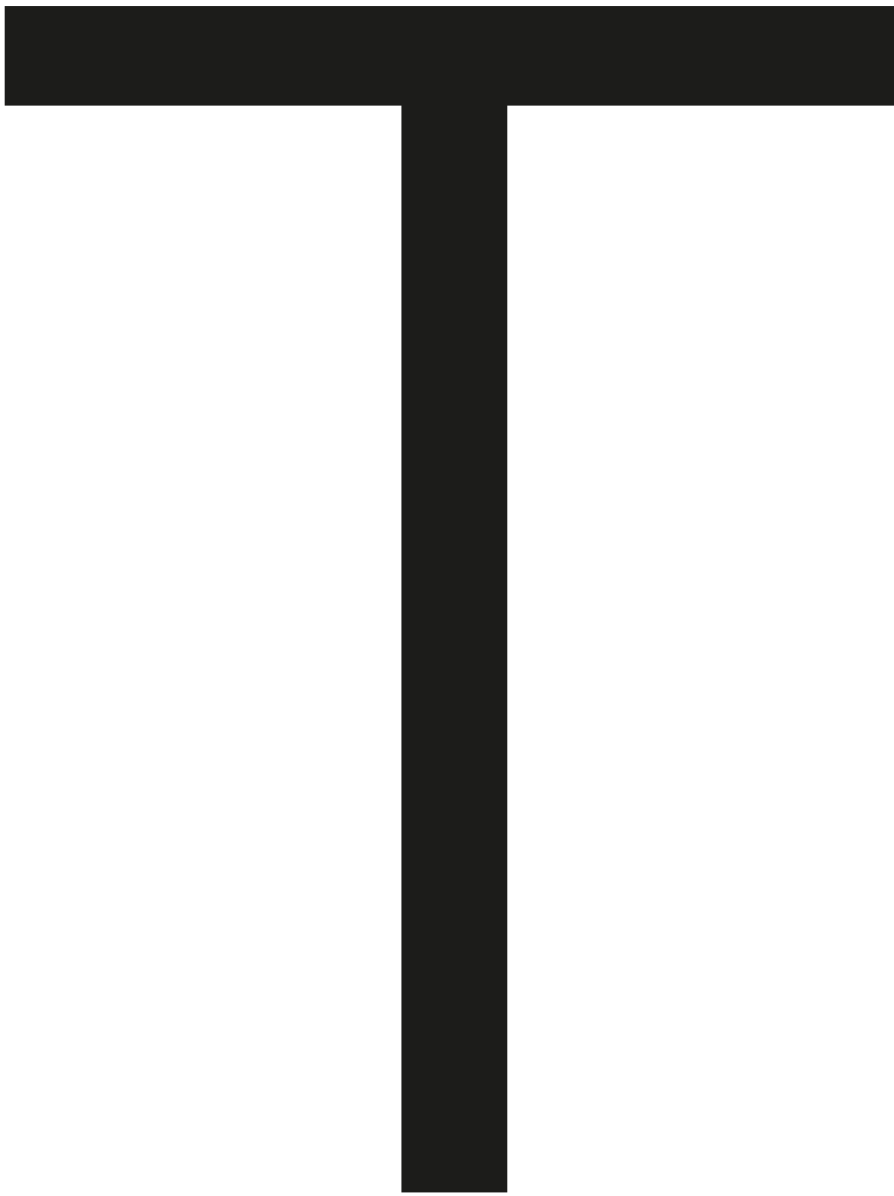

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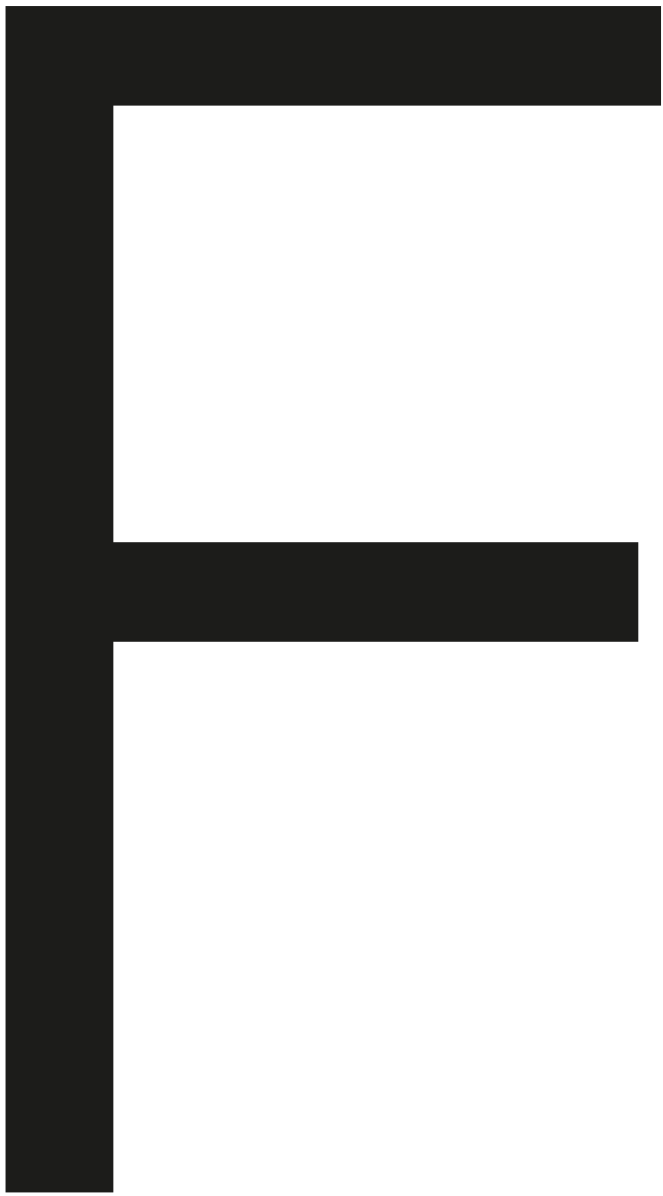

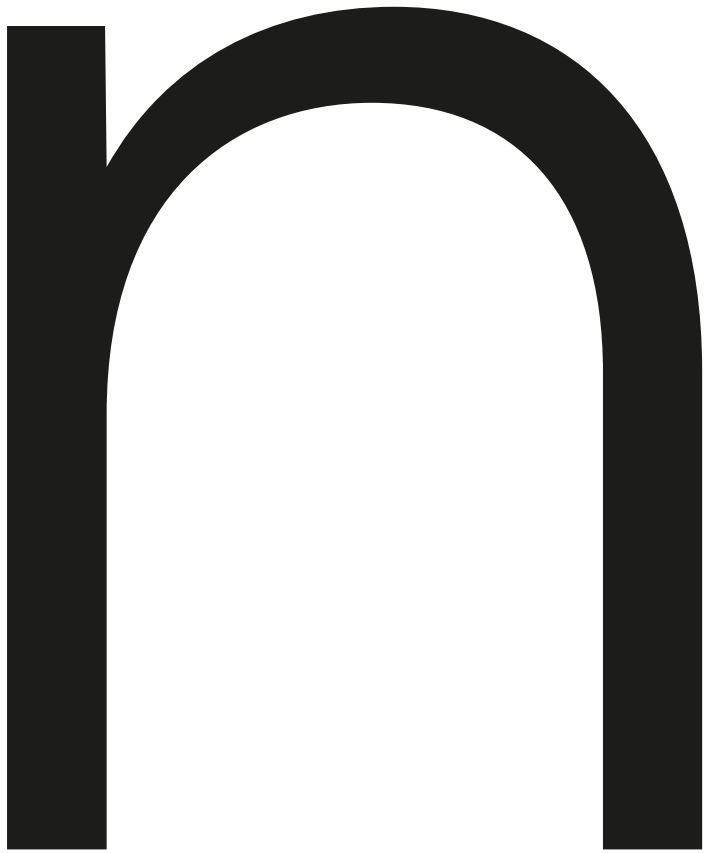

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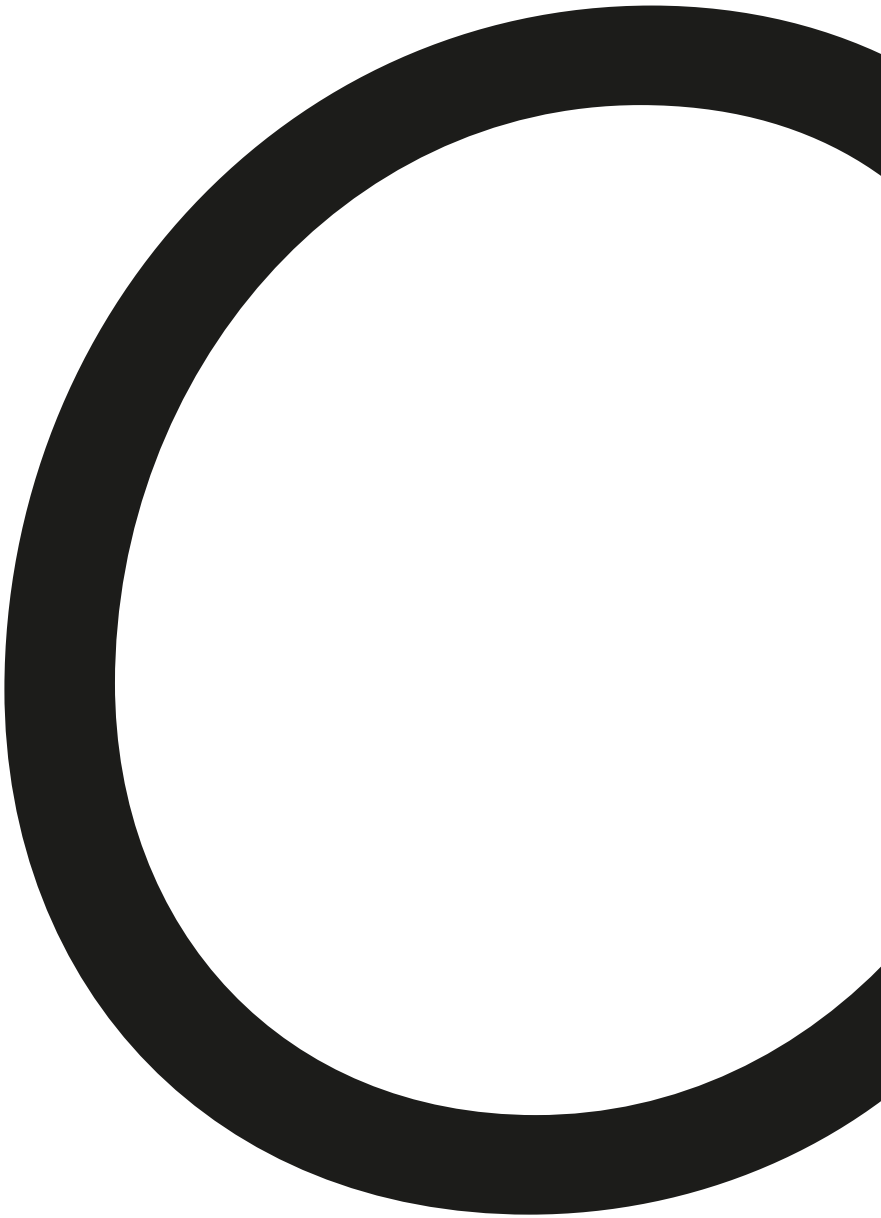

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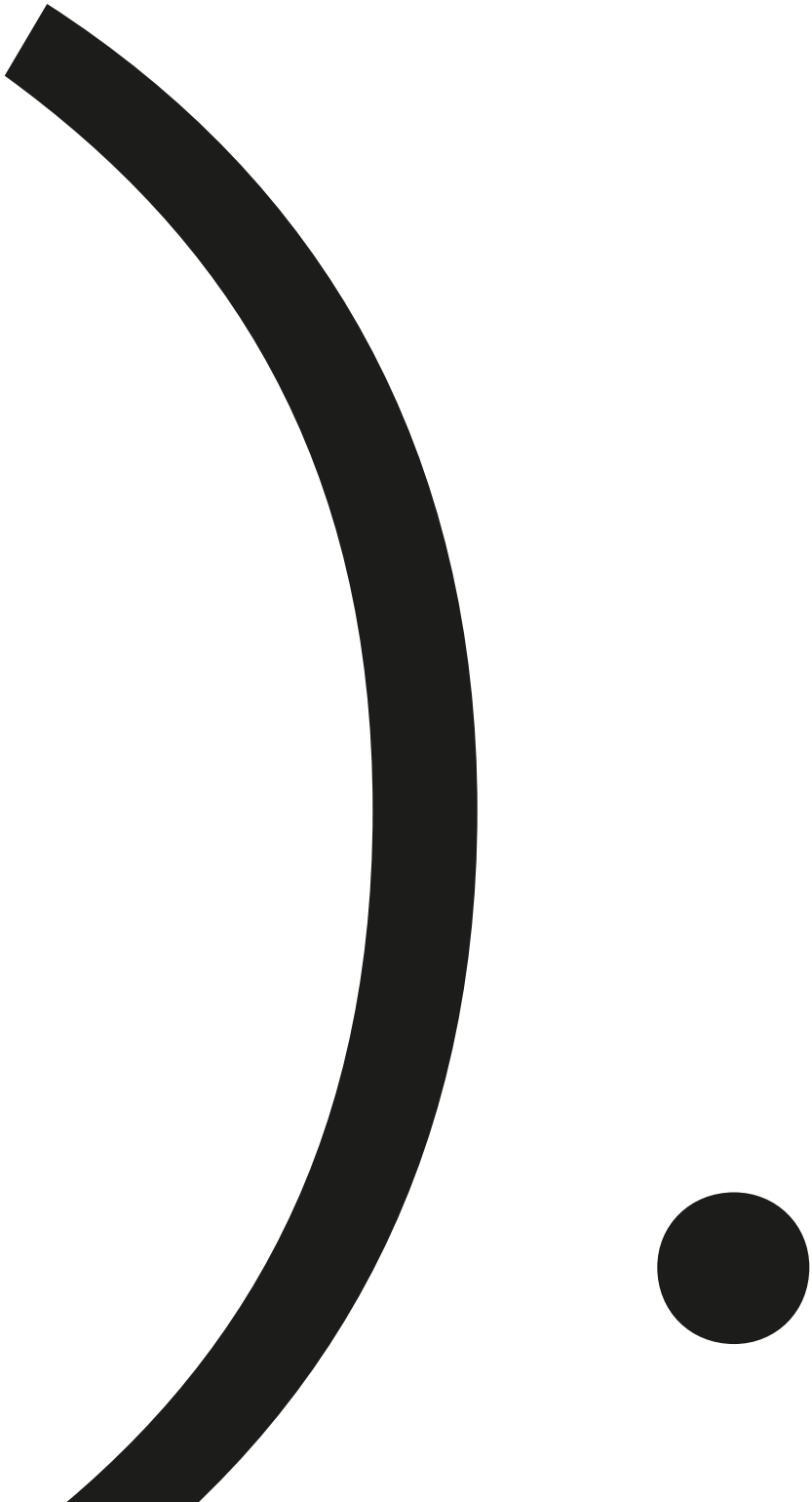

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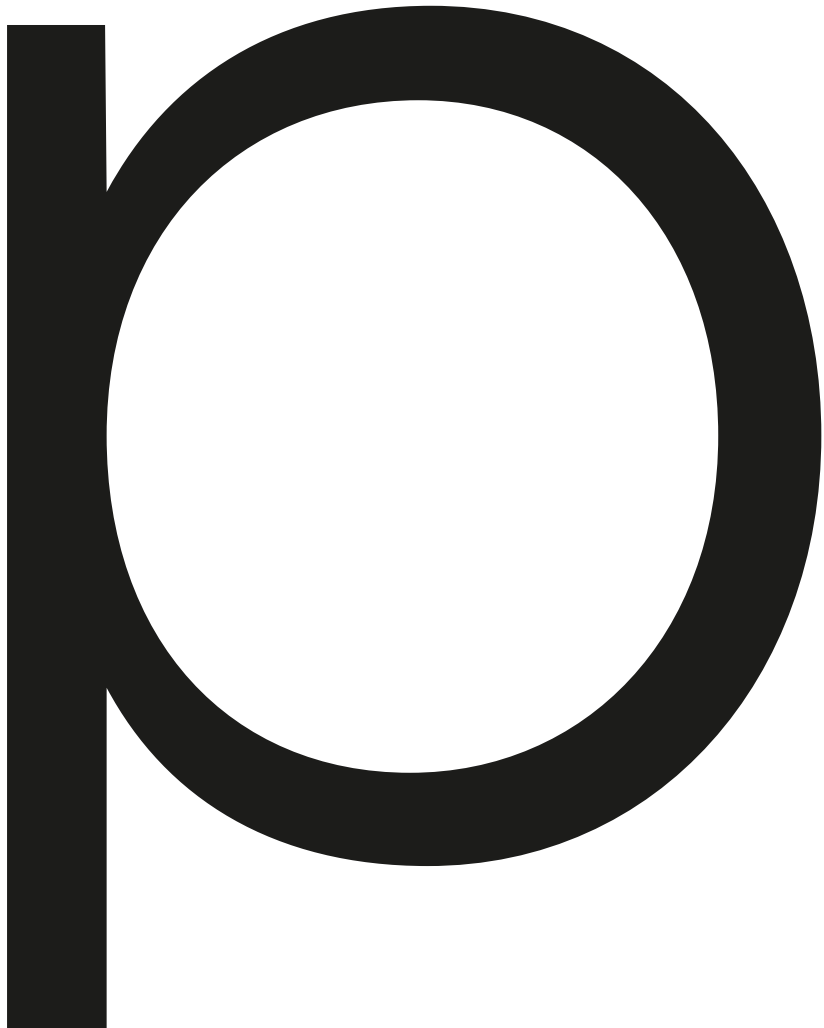

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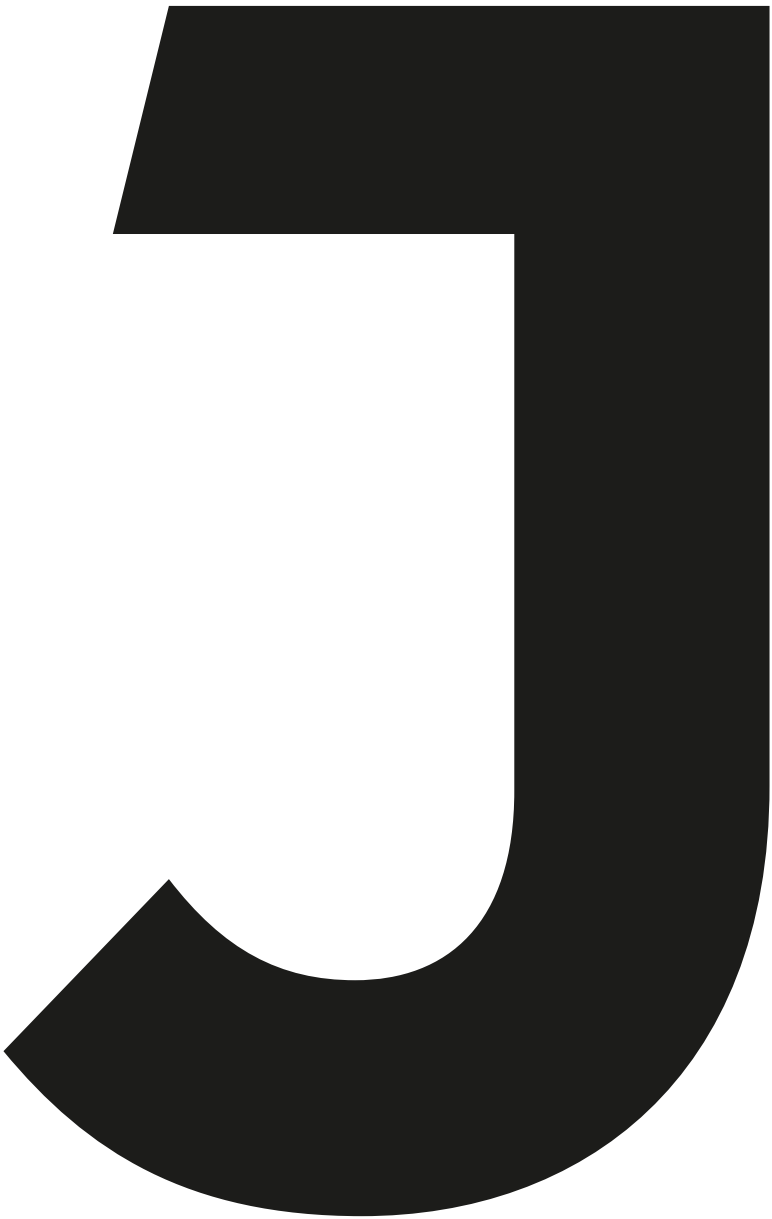

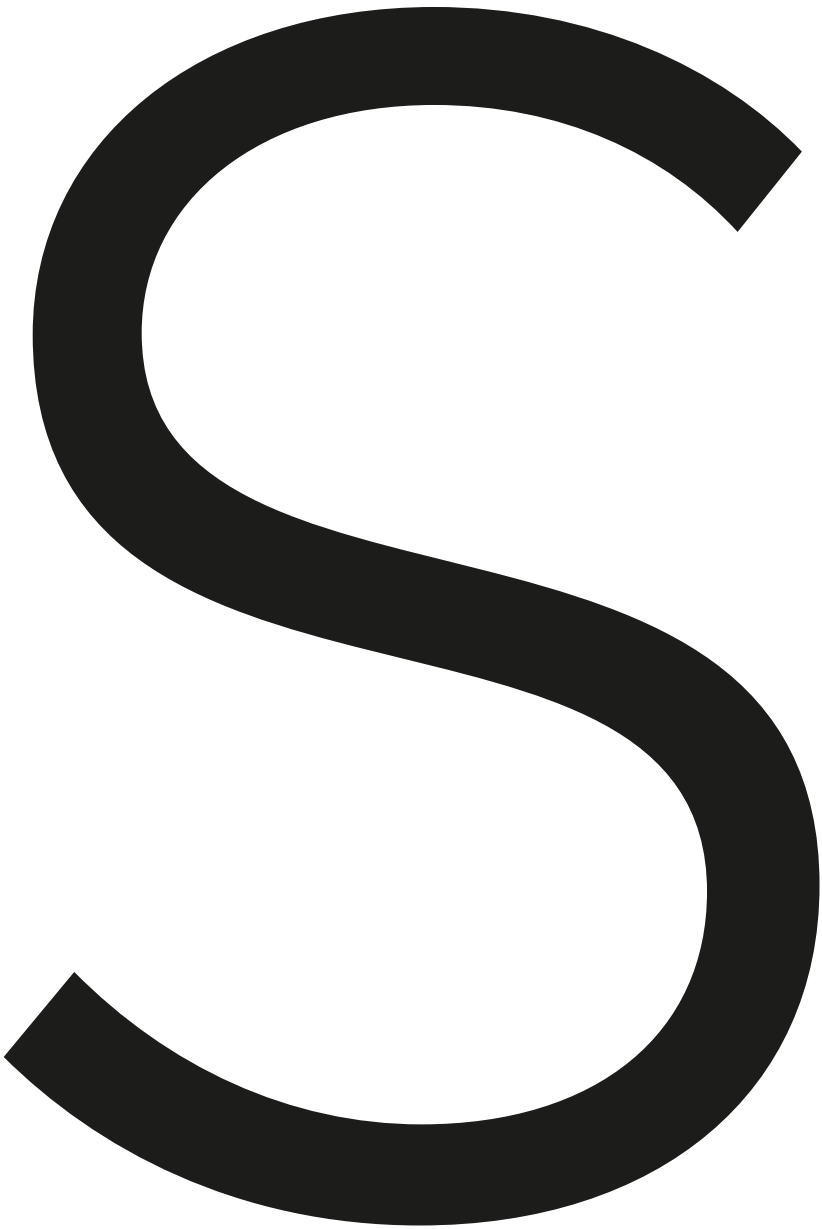

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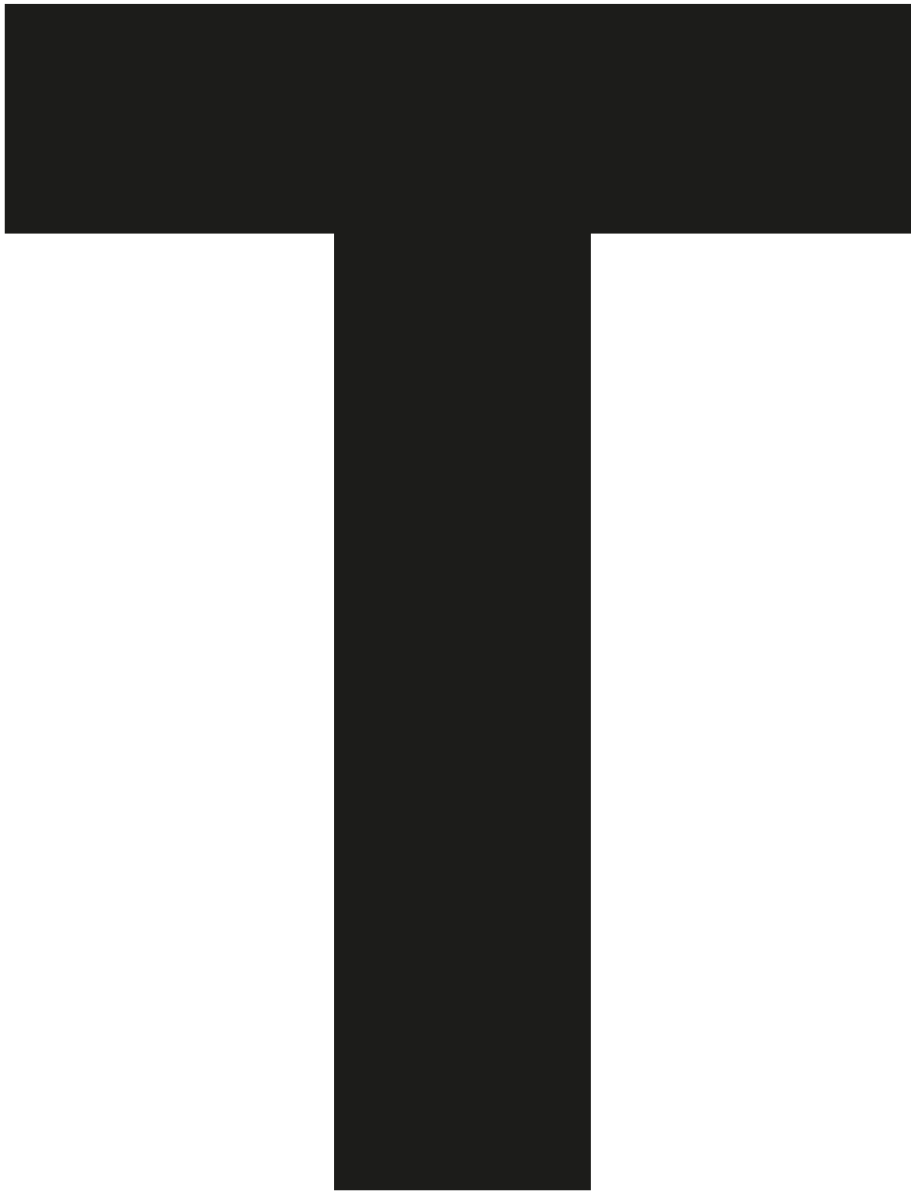

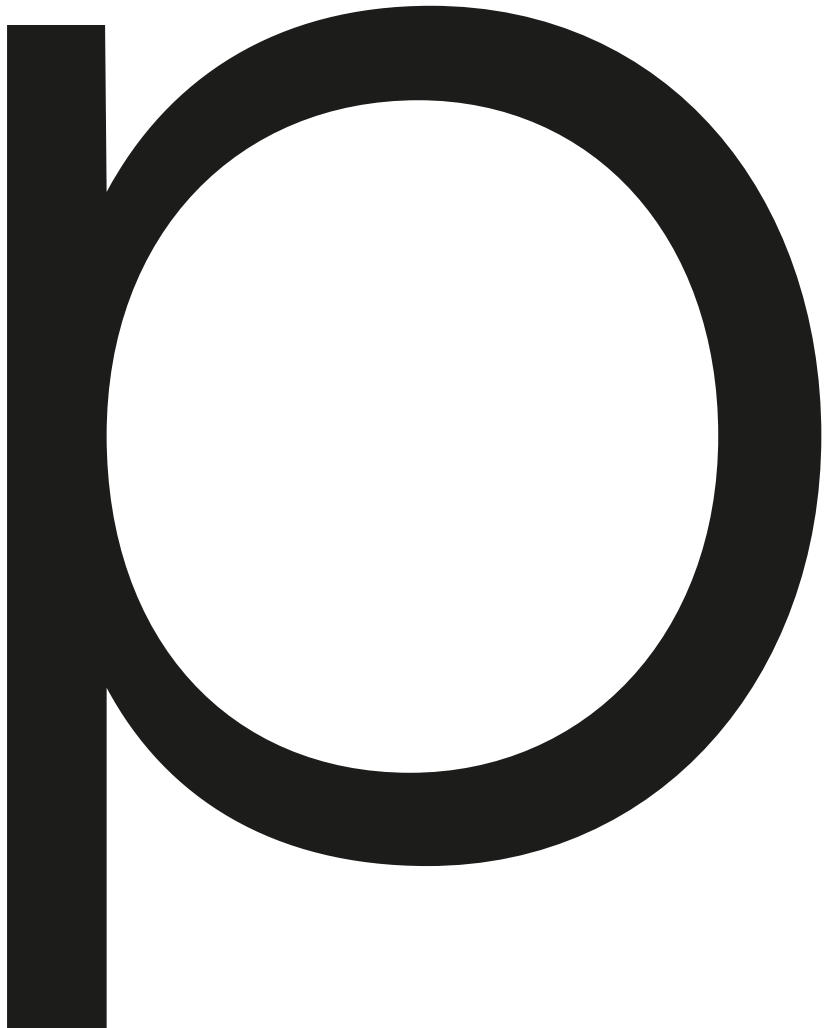

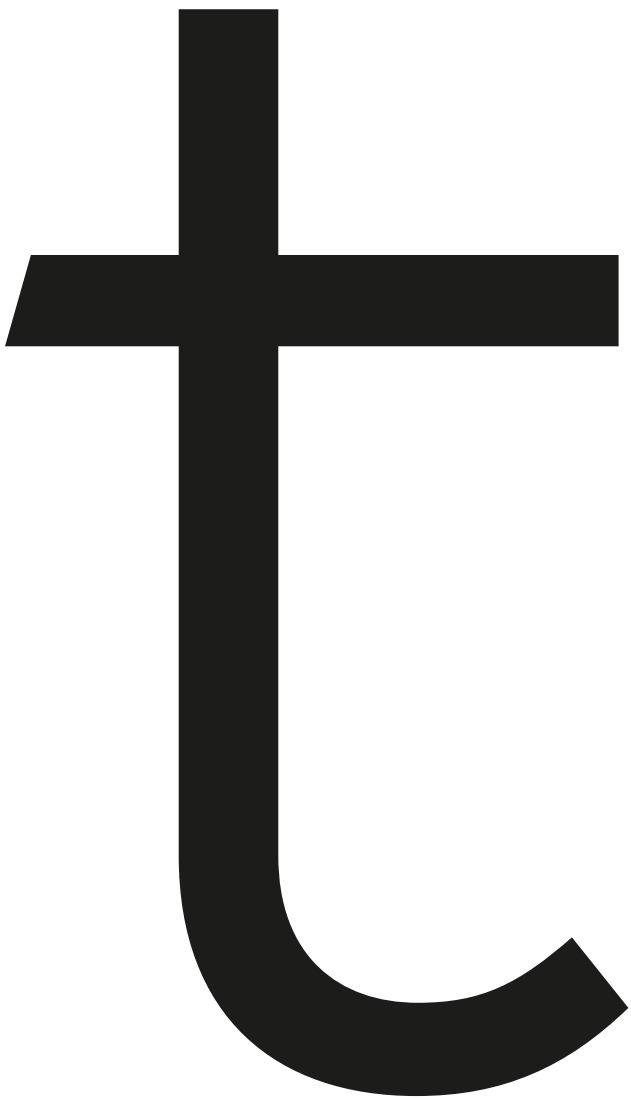

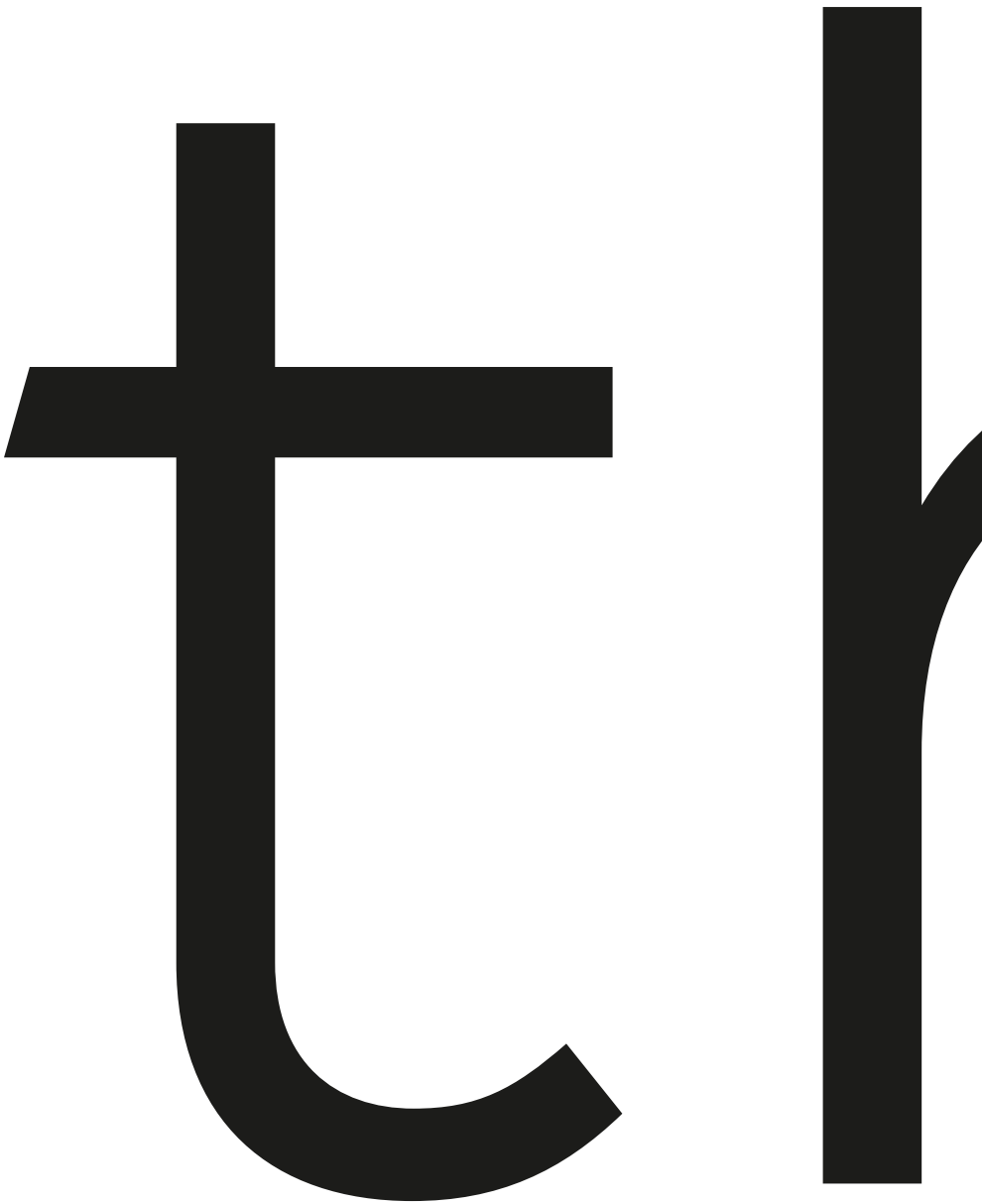

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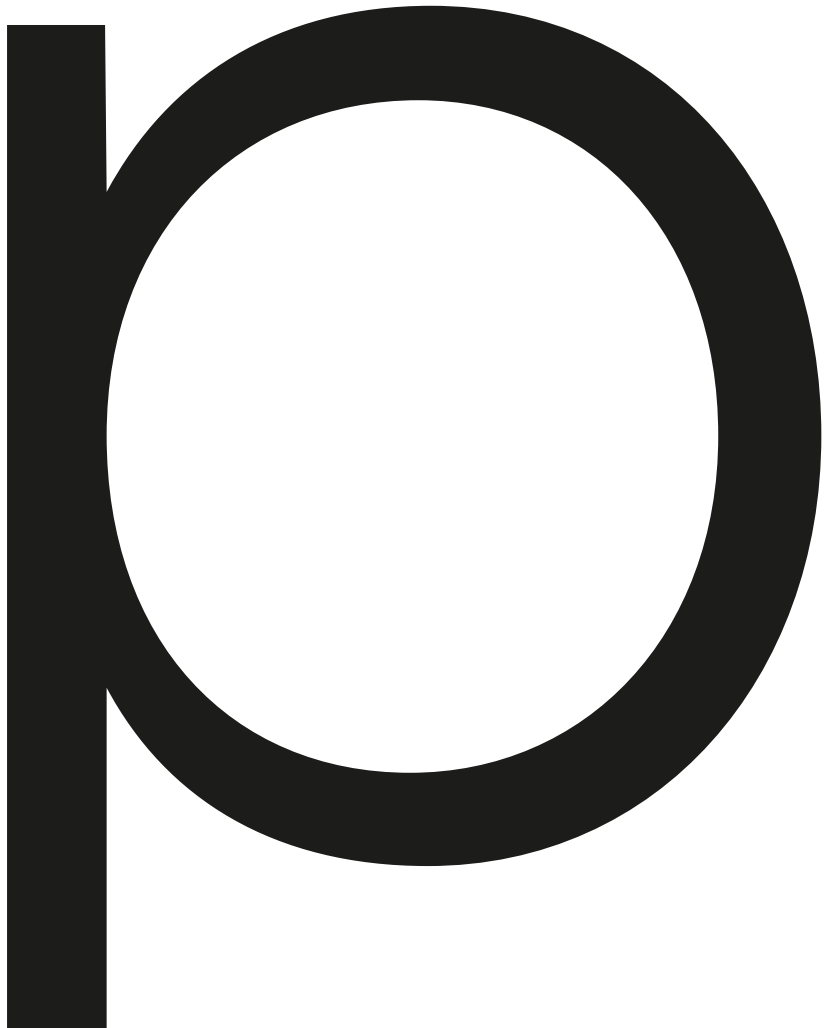

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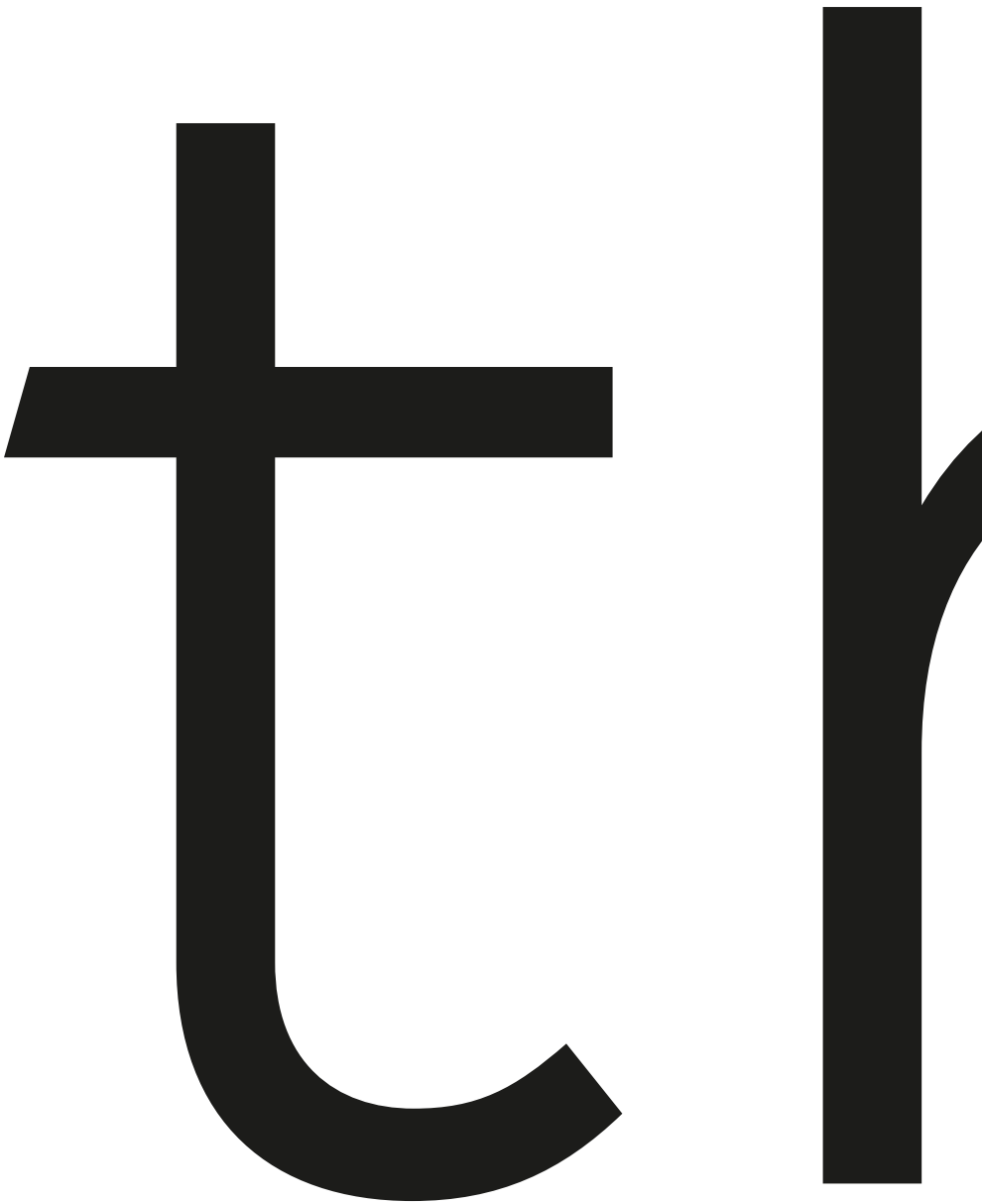

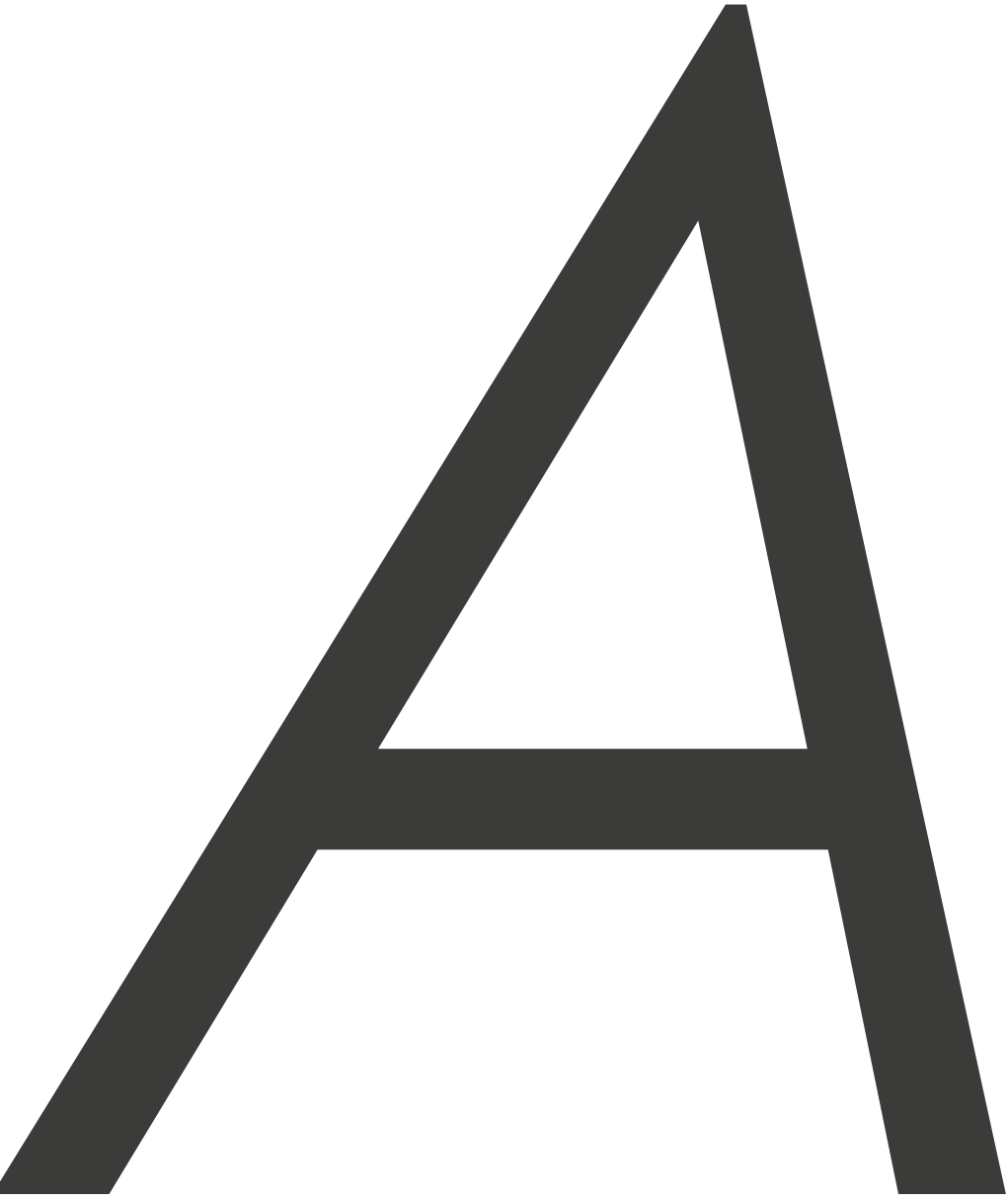

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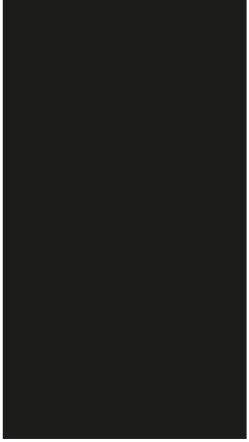
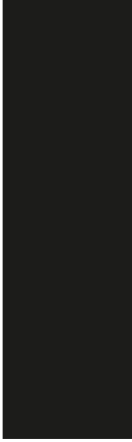

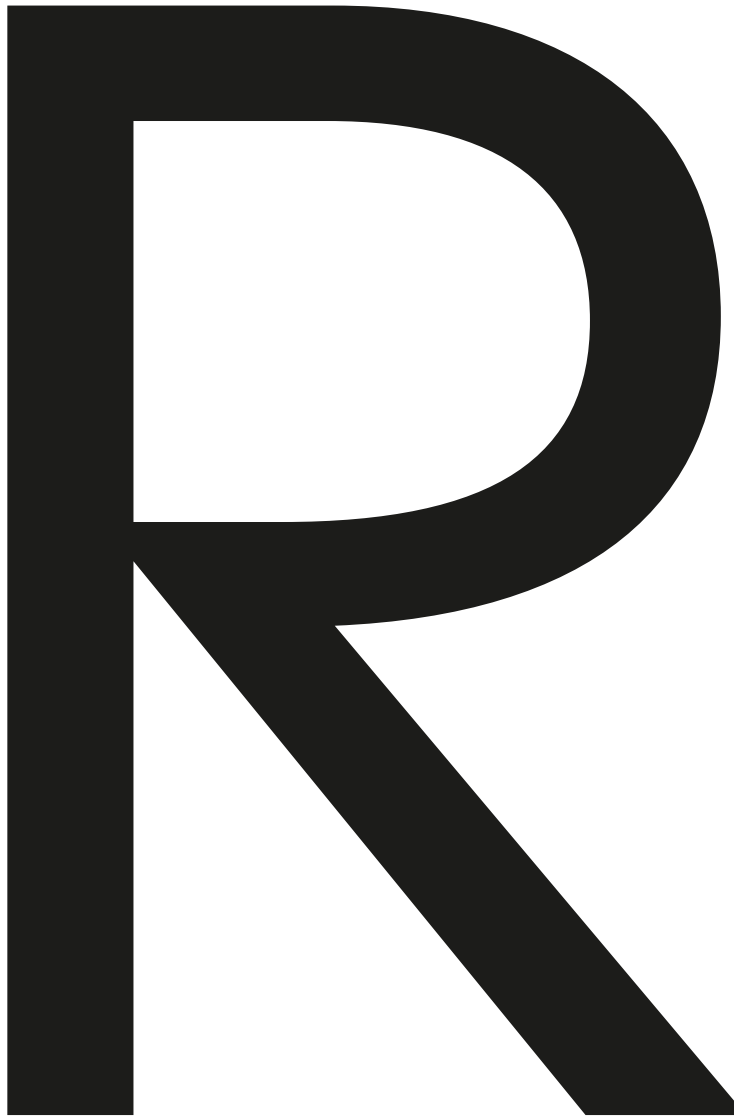

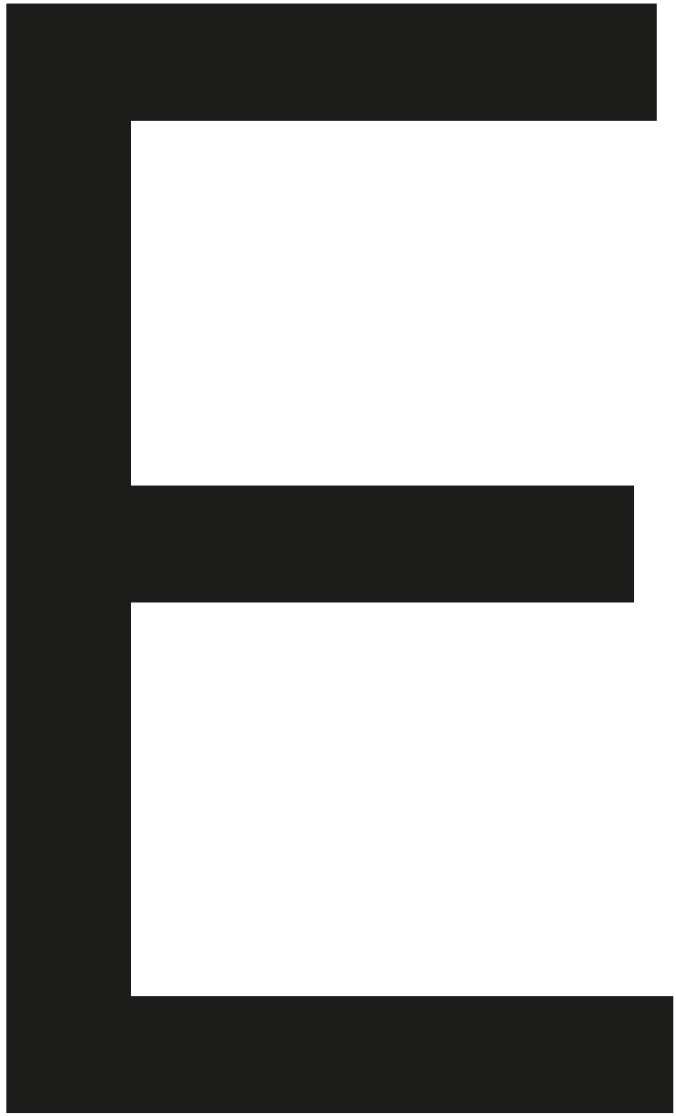

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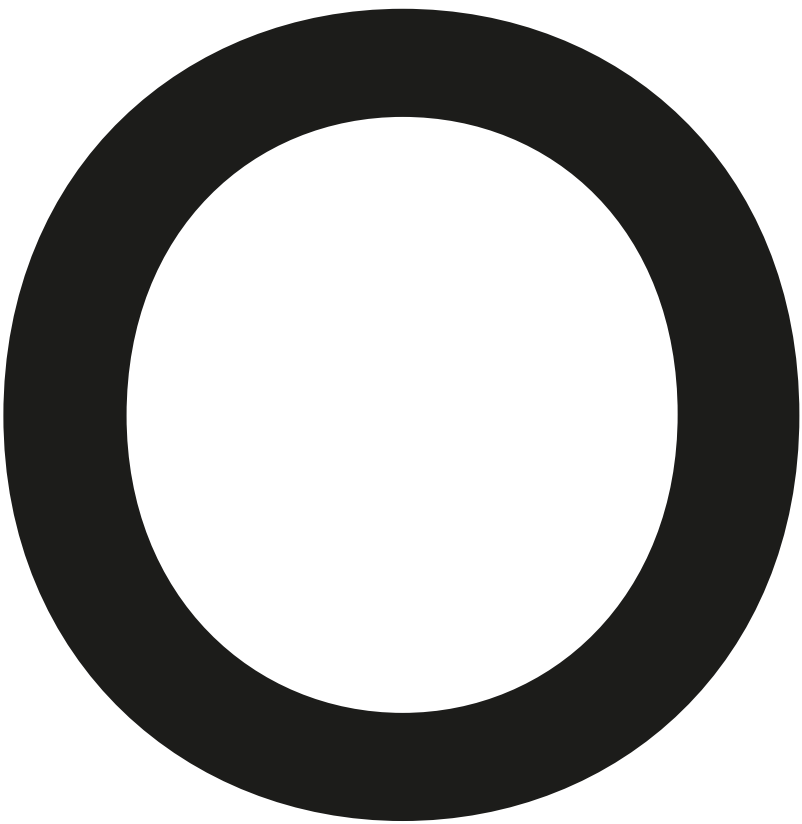

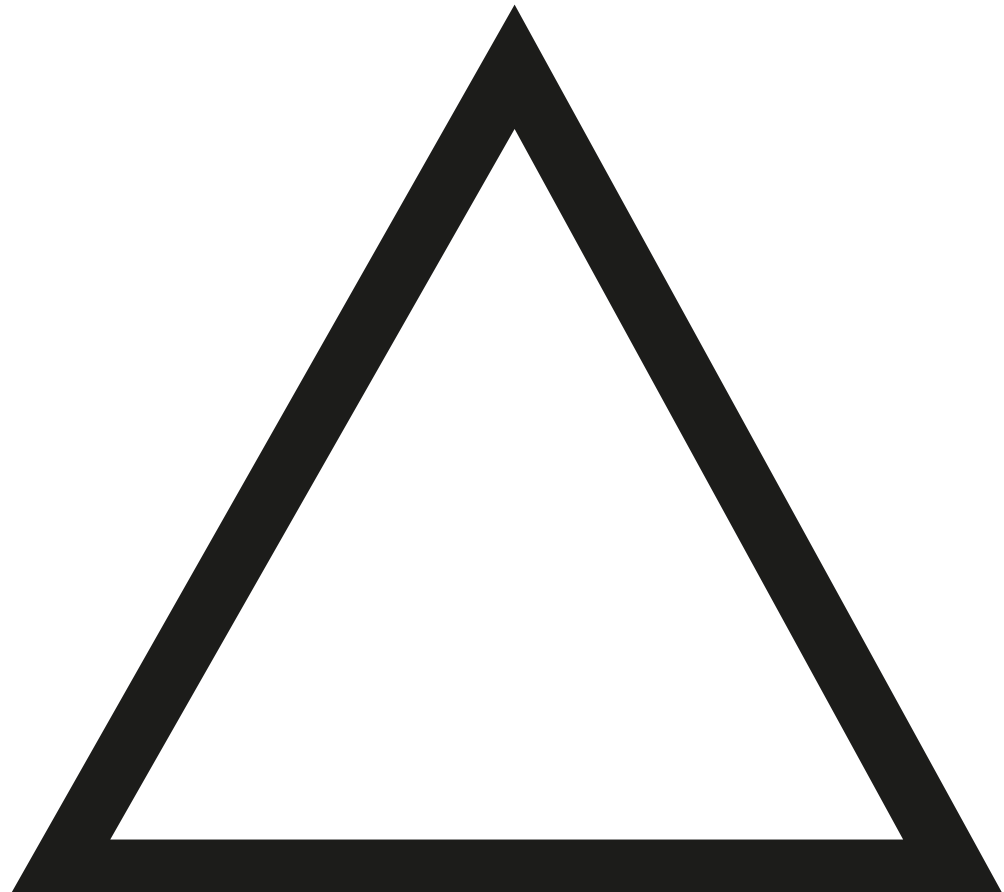

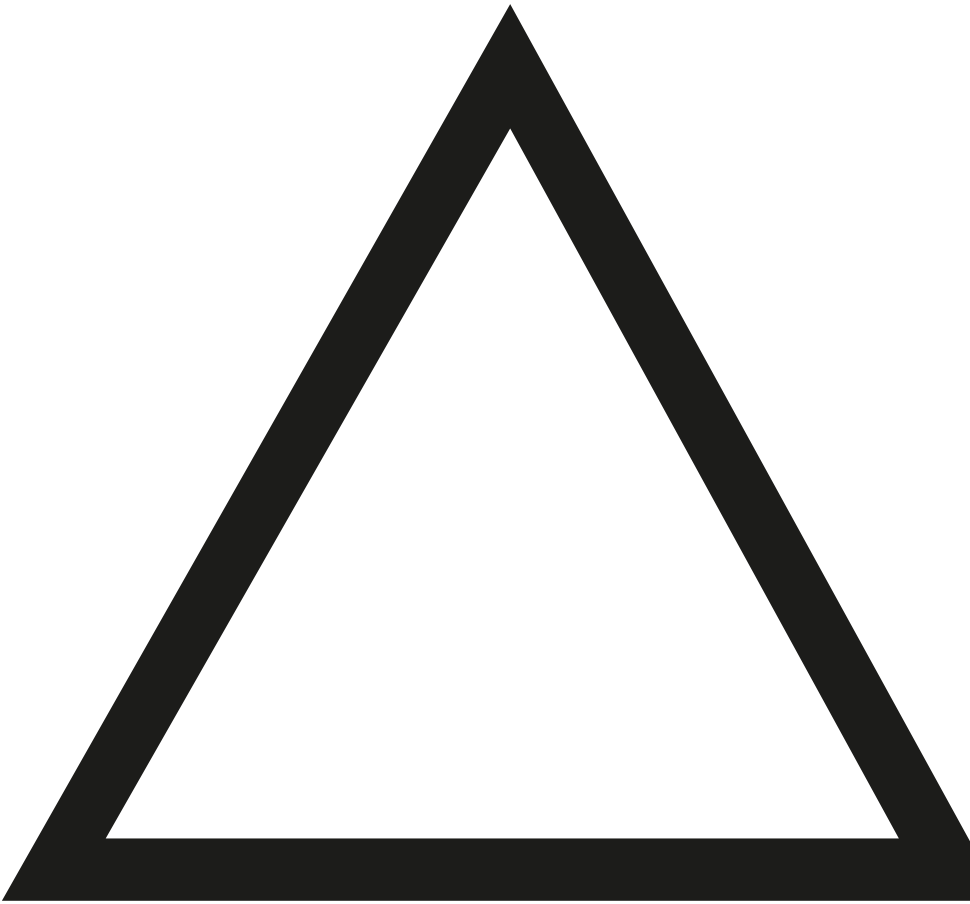

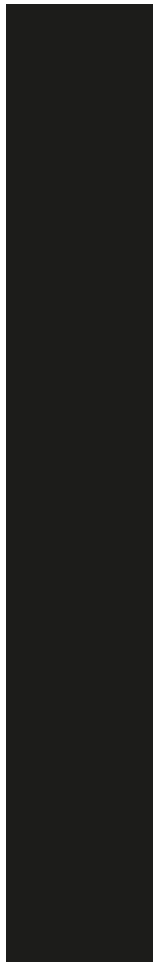
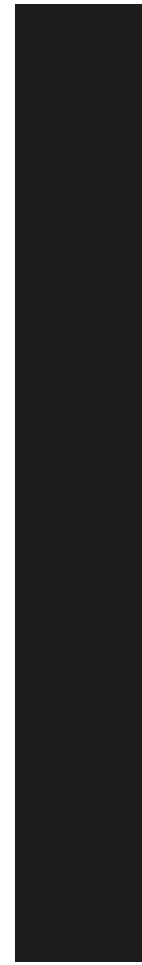

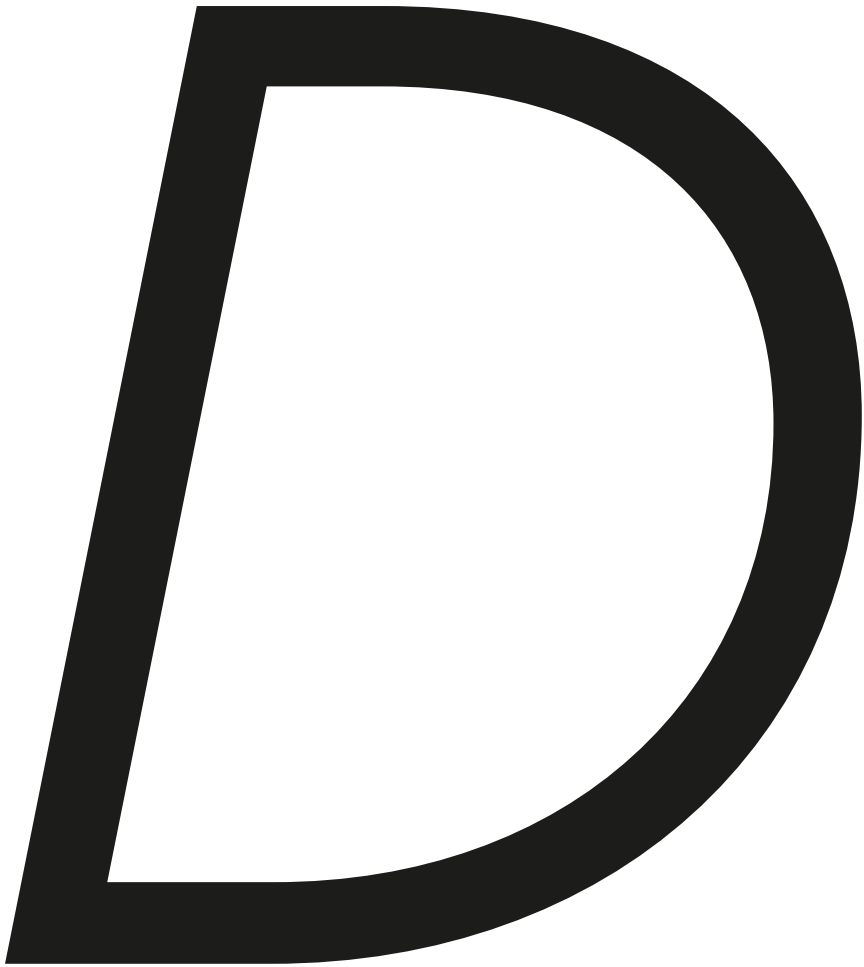

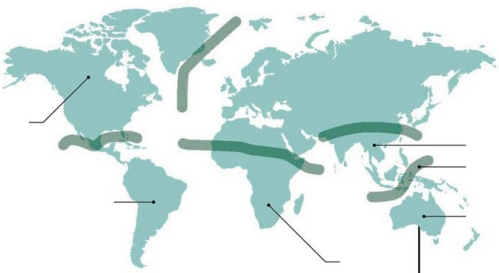

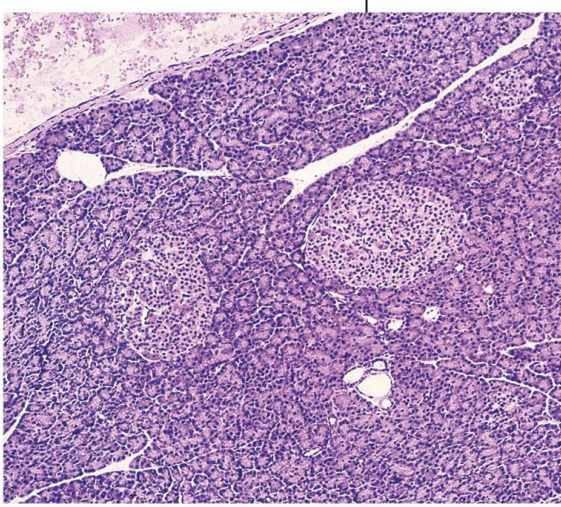

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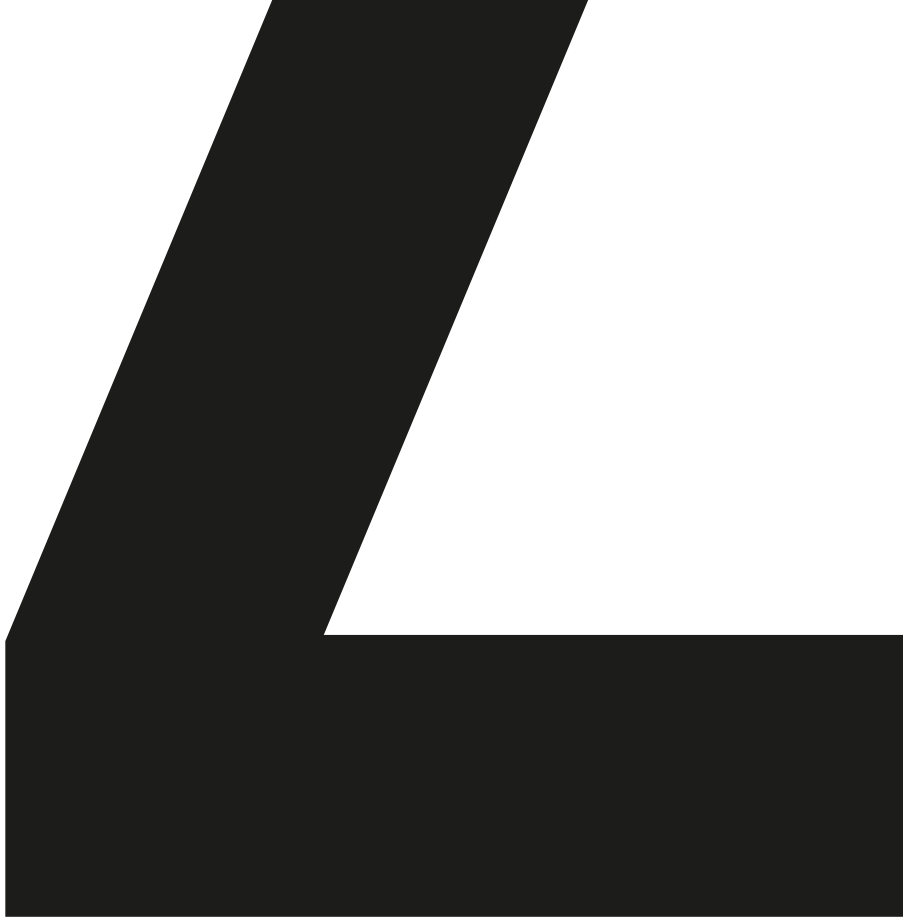

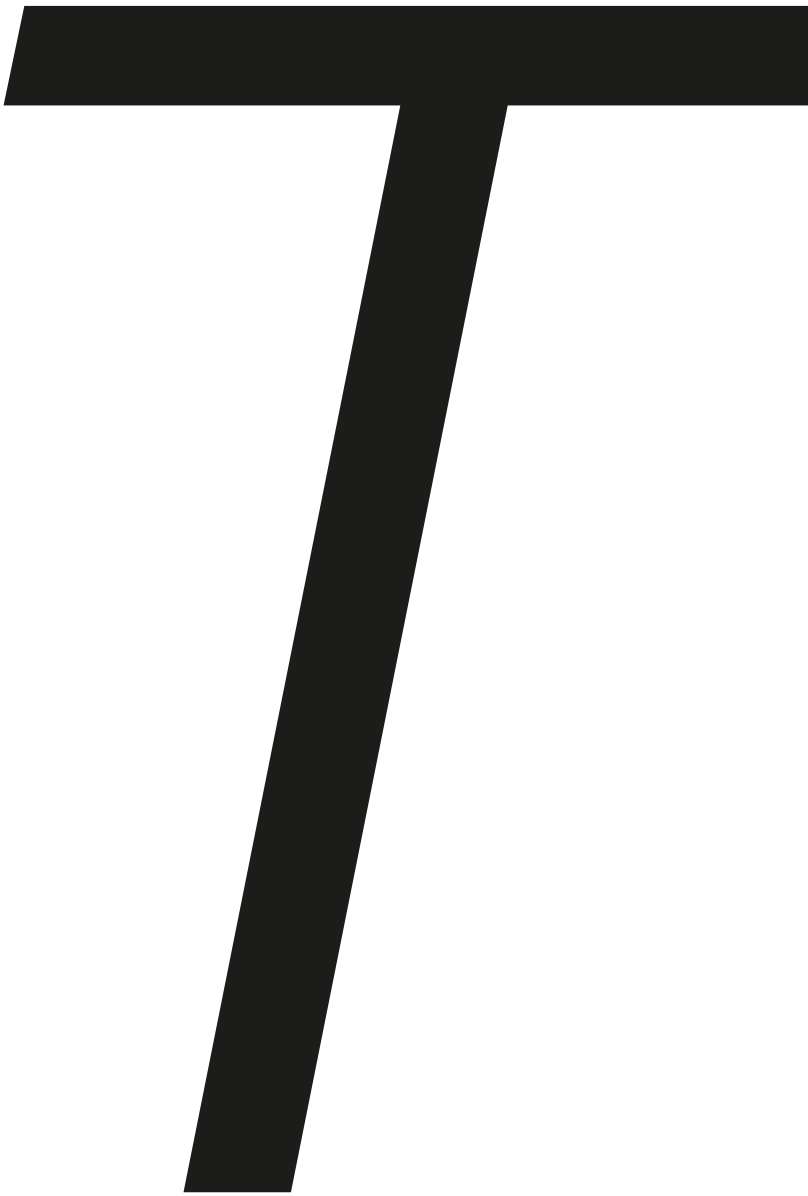

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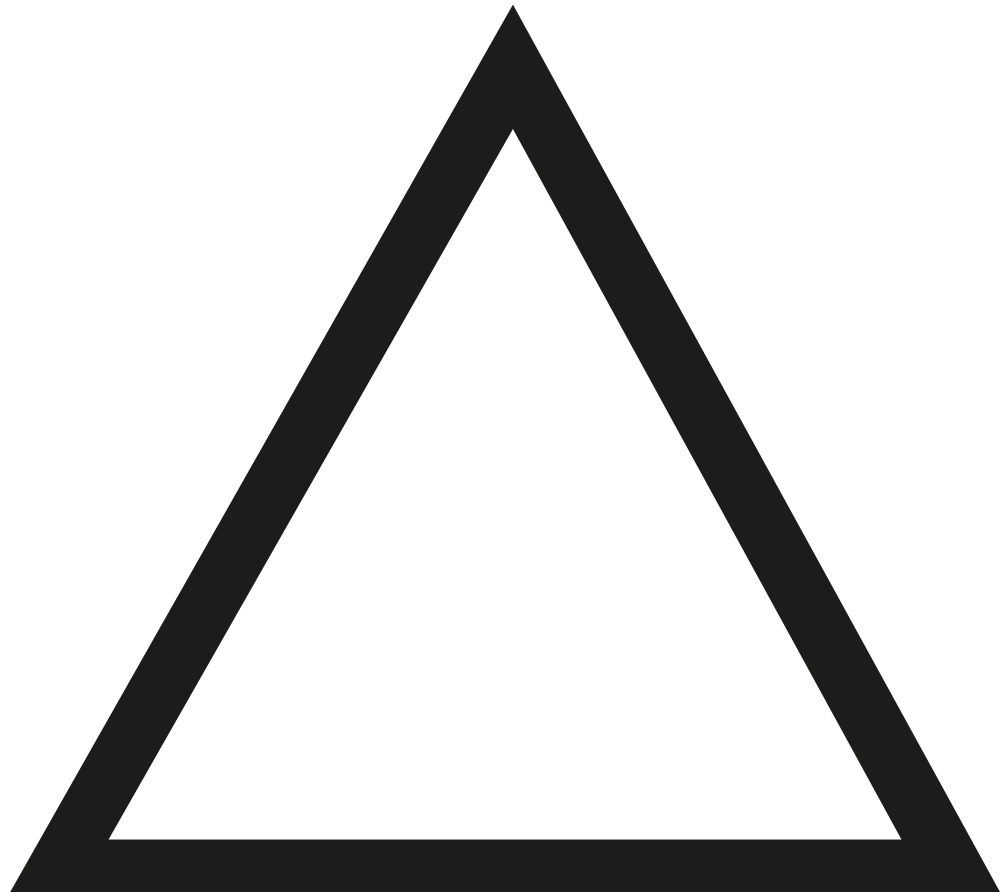

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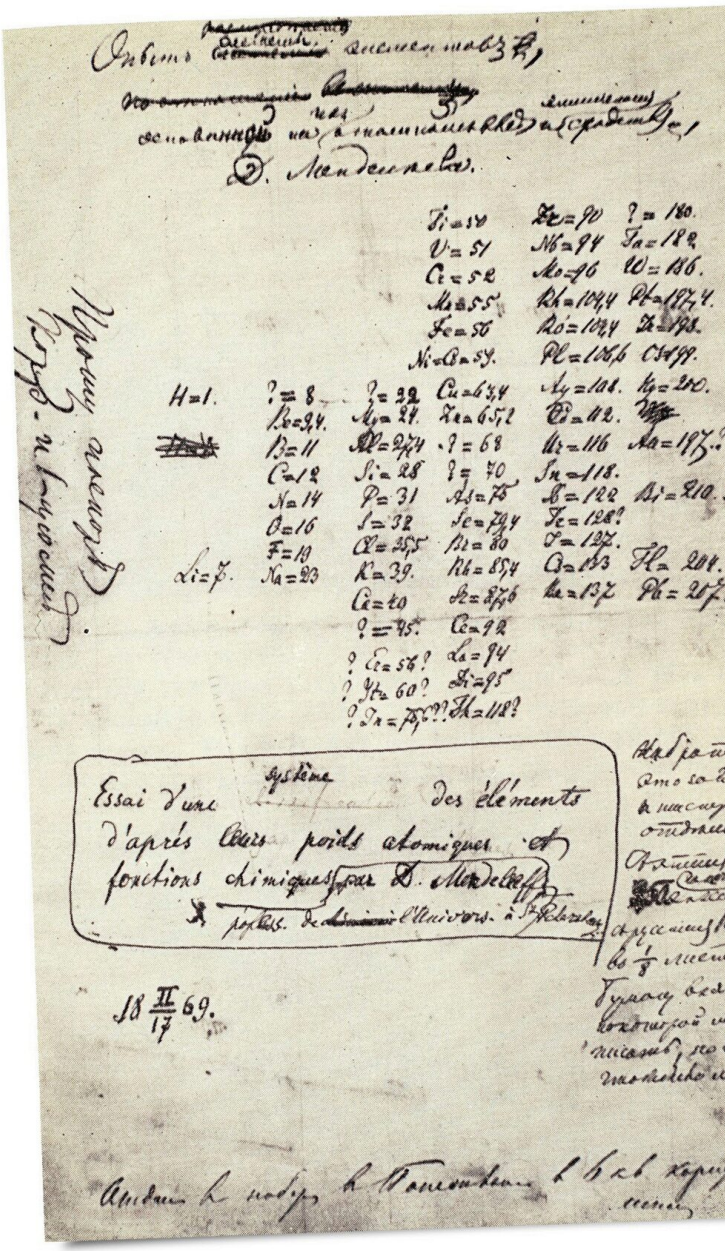

Опыт [illegible] элементов по их атомному весу и химическому сходству

Д. Менделеев.

Ti=50 Zr=90 ?=180.
V=51 Nb=94 Ta=182.
Cr=52 Mo=96 W=186.
Mn=55 Rh=104,4 Pt=197,4.
Fe=56 Ru=104,4 Ir=198.
Ni=Co=59. Pl=106,6 Os=199.
H=1. ?=8 ?=22 Cu=63,4 Ag=108. Hg=200.
Be=9,4 Mg=24. Zn=65,2 Cd=112.
B=11 Al=27,4 ?=68 Ur=116 Au=197.?
C=12 Si=28 ?=70 Sn=118.
N=14 P=31 As=75 Sb=122 Bi=210.
O=16 S=32 Se=79,4 Te=128?
F=19 Cl=35,5 Br=80 I=127.
Li=7. Na=23 K=39. Rb=85,4 Cs=133 Tl=204.
Ca=40 Sr=87,6 Ba=137 Pb=207.
?=45. Ce=92
?Er=56? La=94
?Yt=60? Di=95
?In=75,6?? Th=118?

Essai d'une système des éléments d'après leurs poids atomiques et fonctions chimiques par D. Mendeleeff

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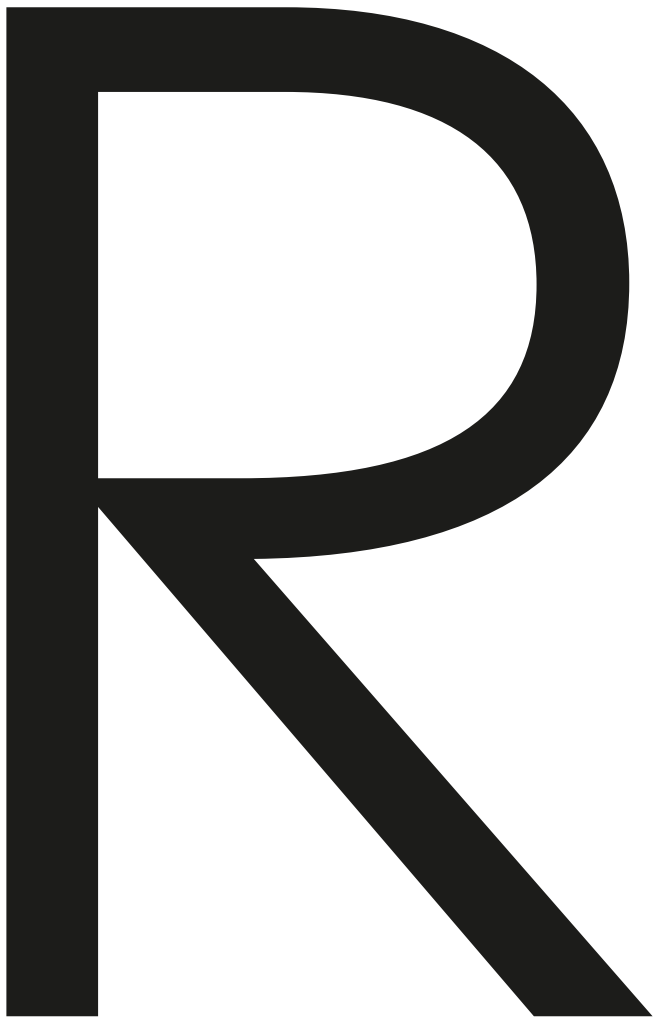

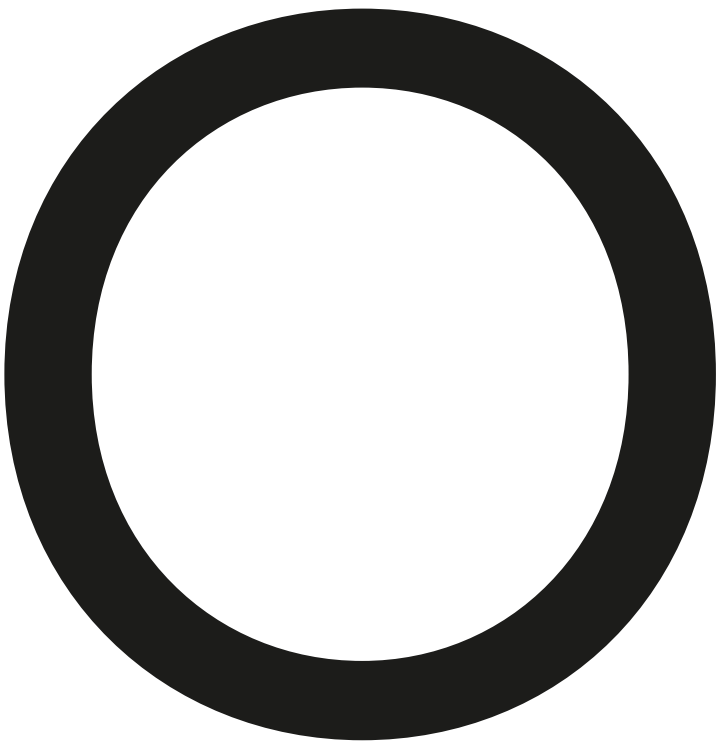

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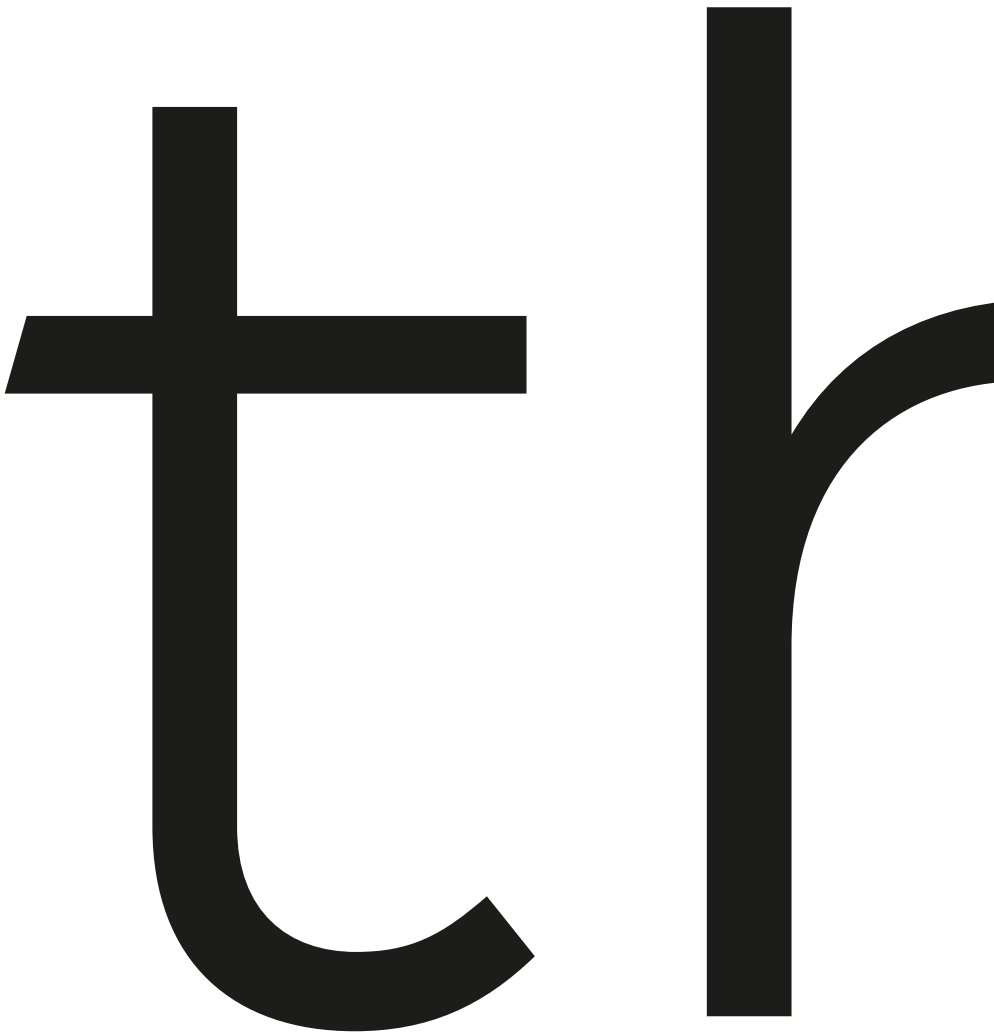

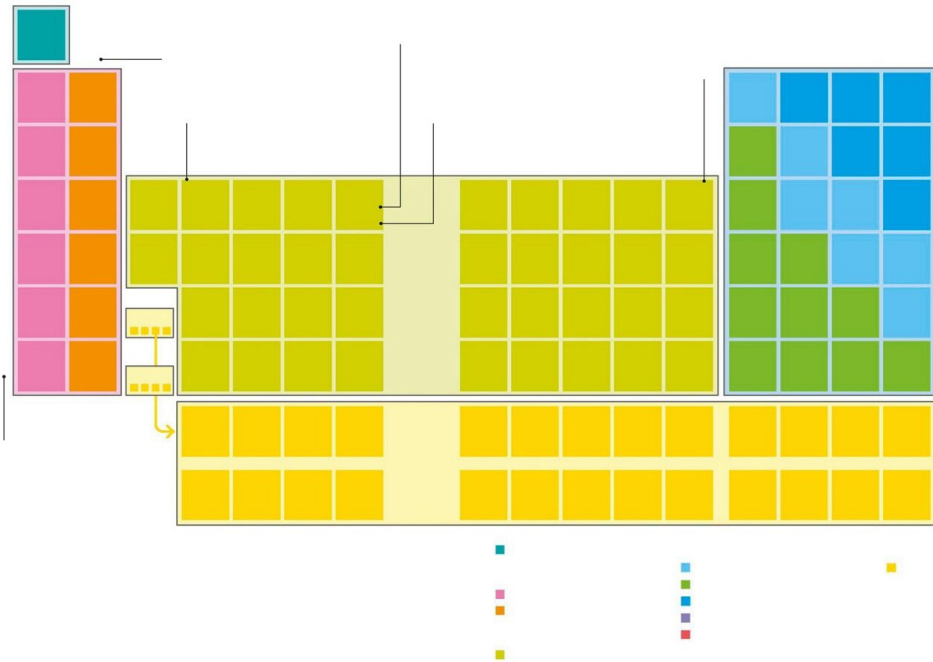

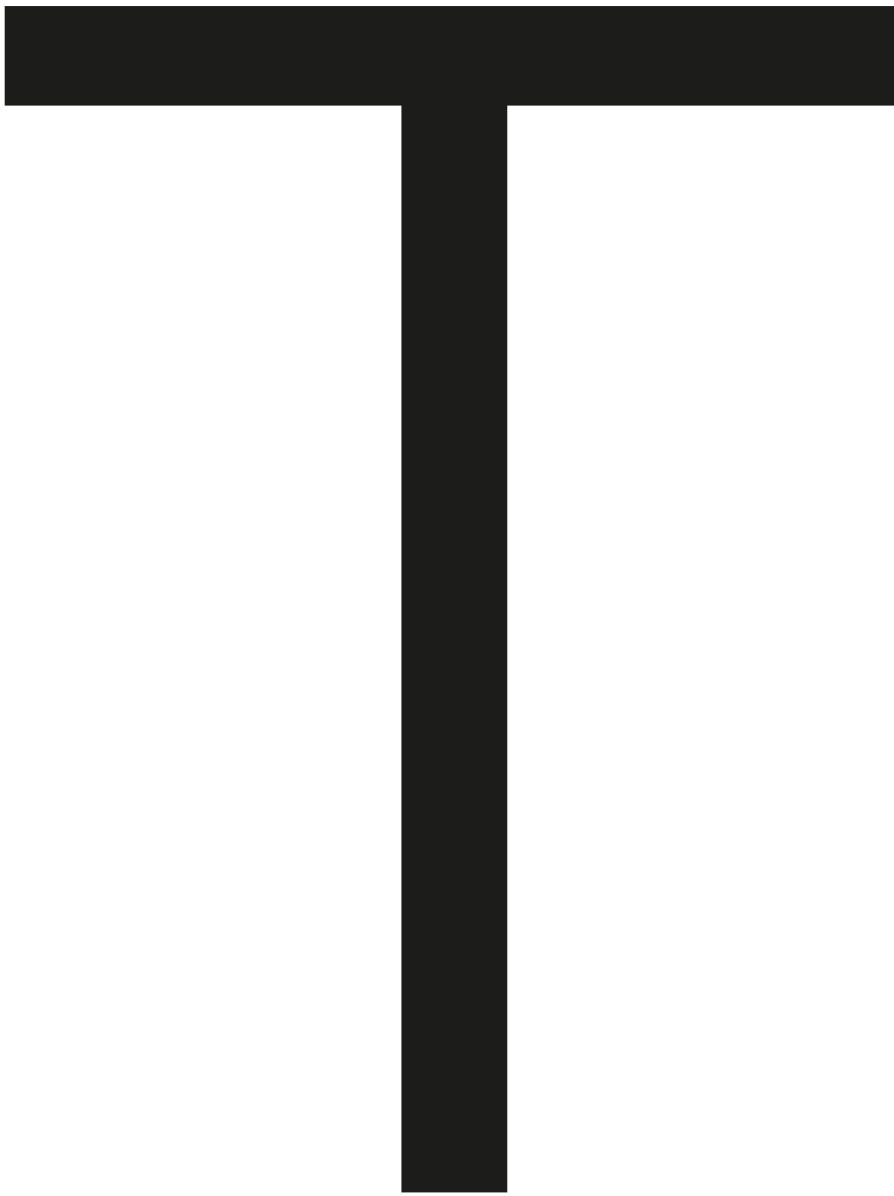

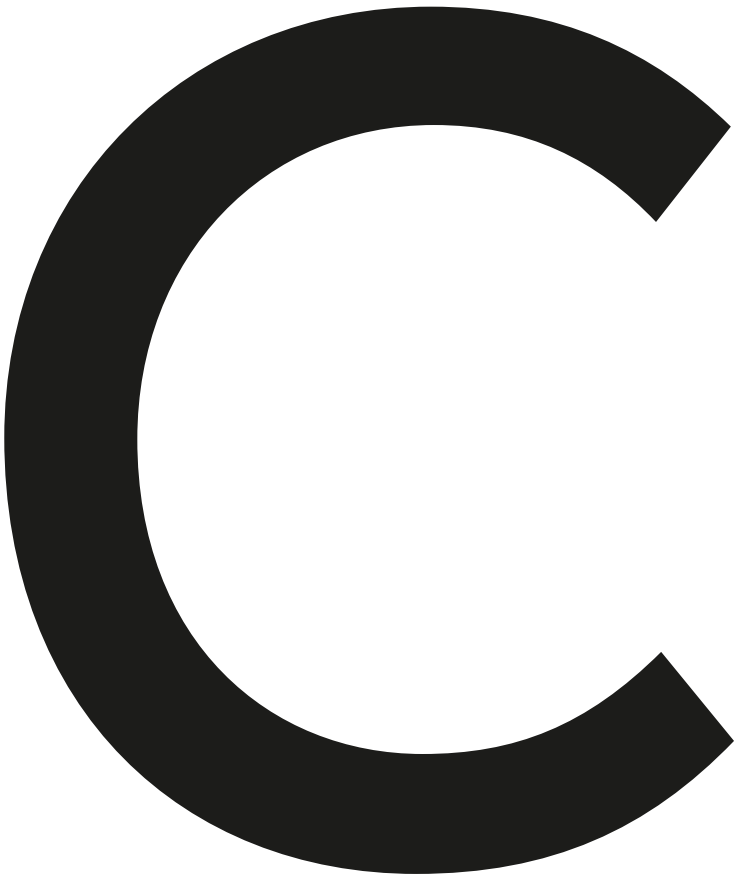

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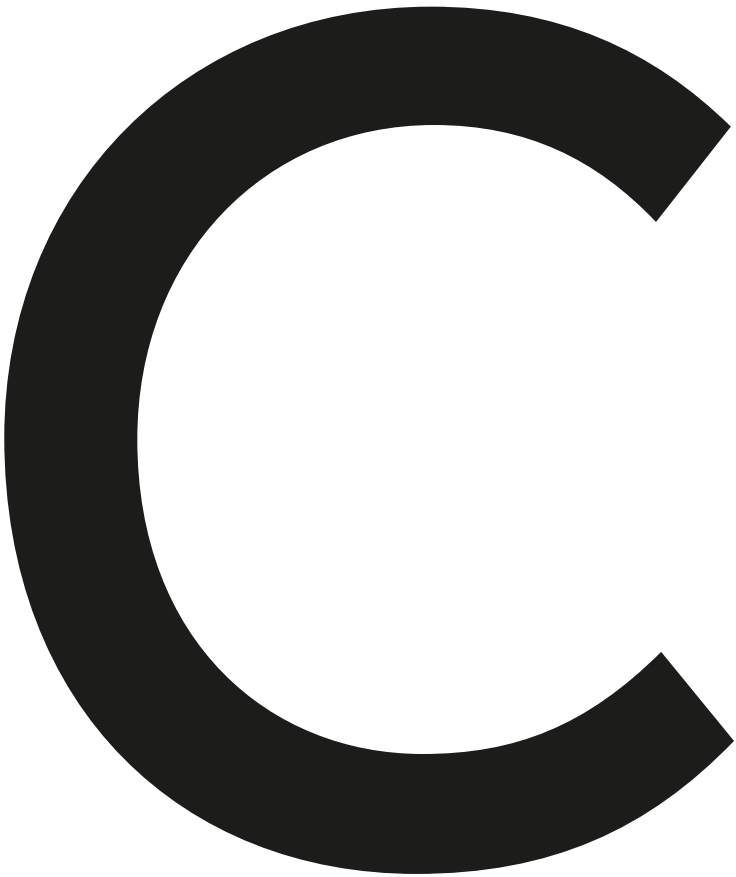

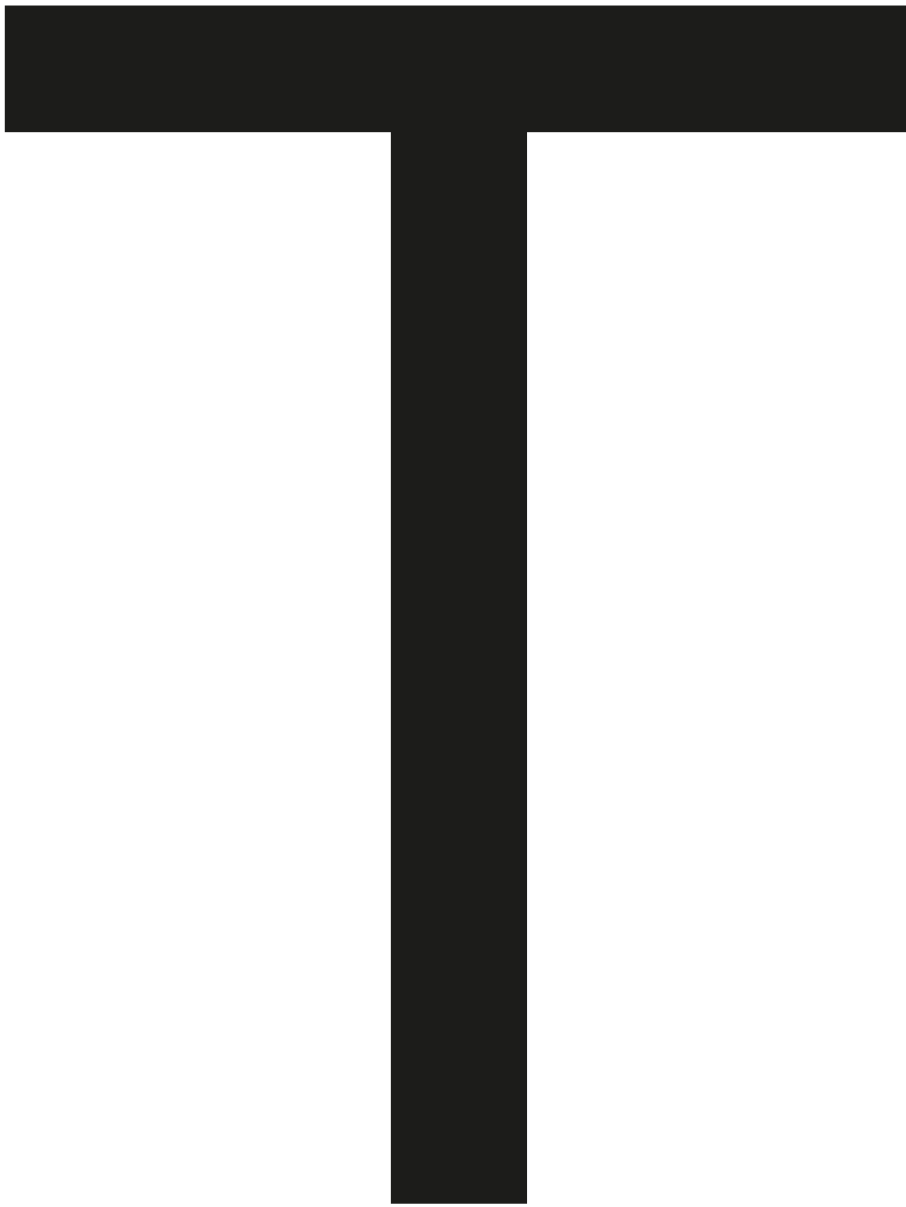

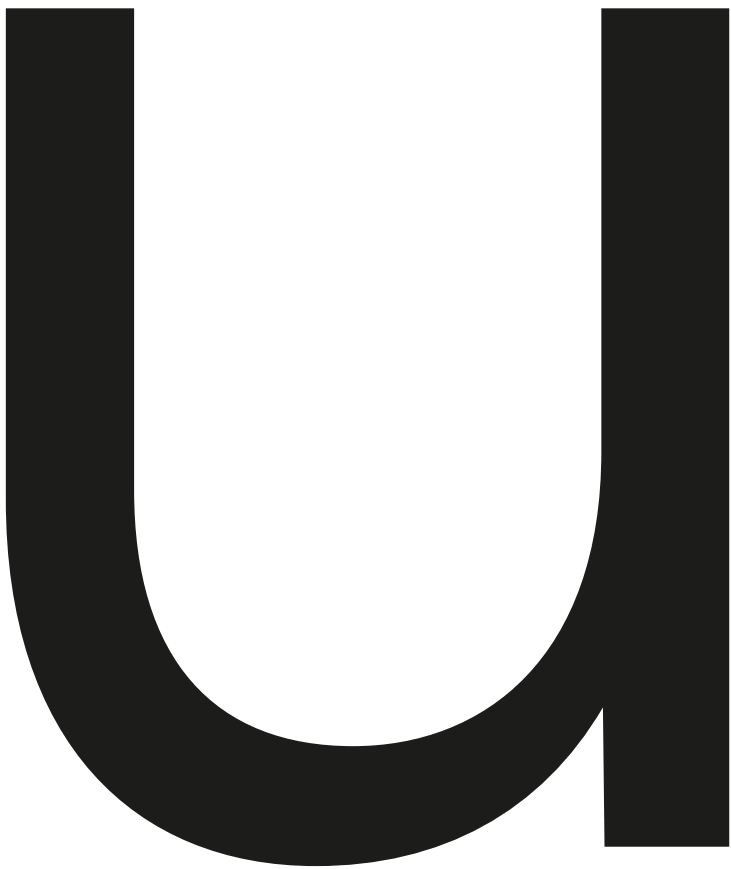

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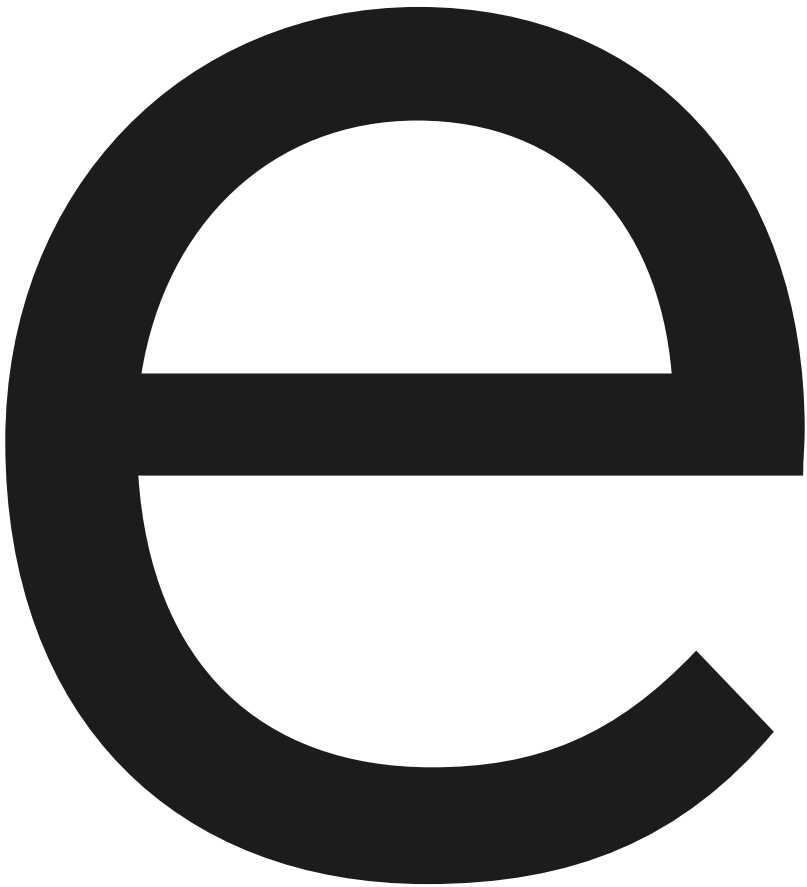

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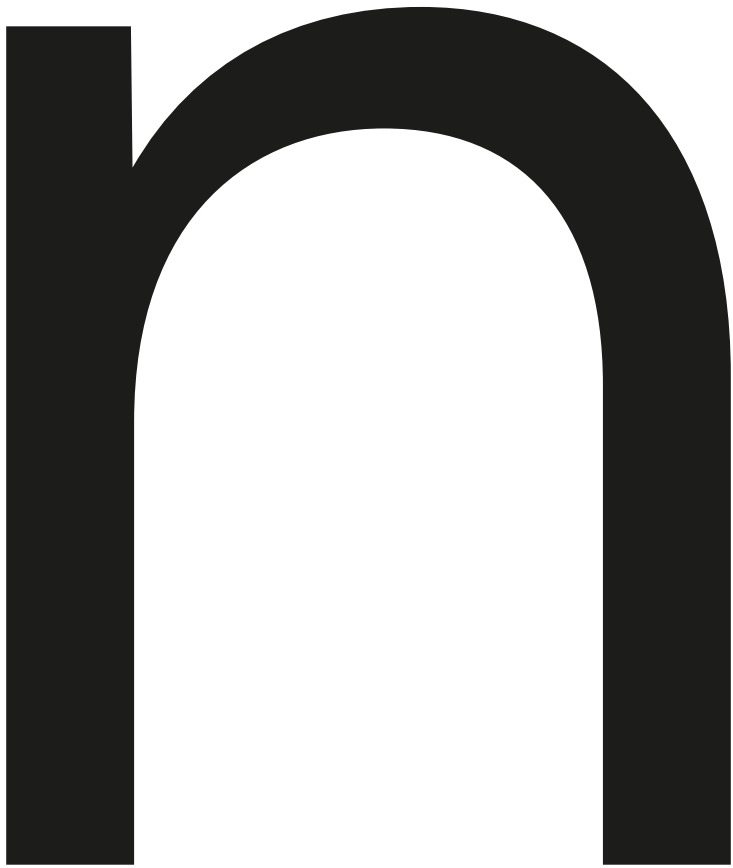

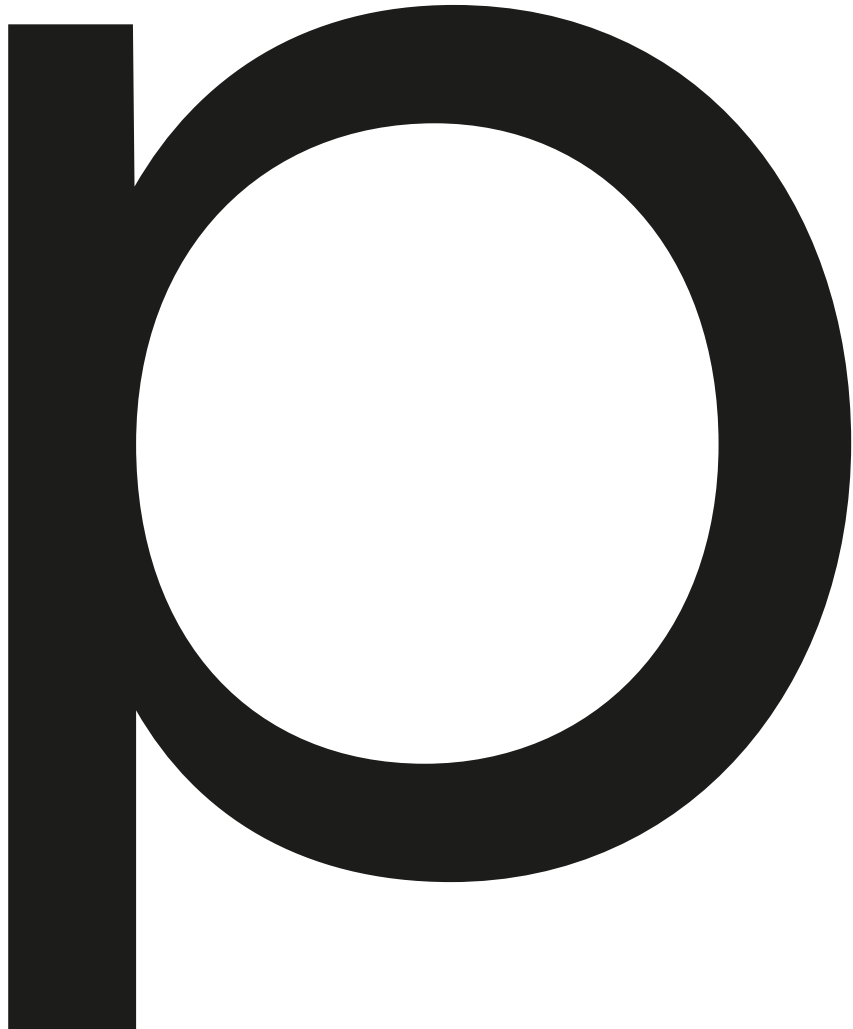

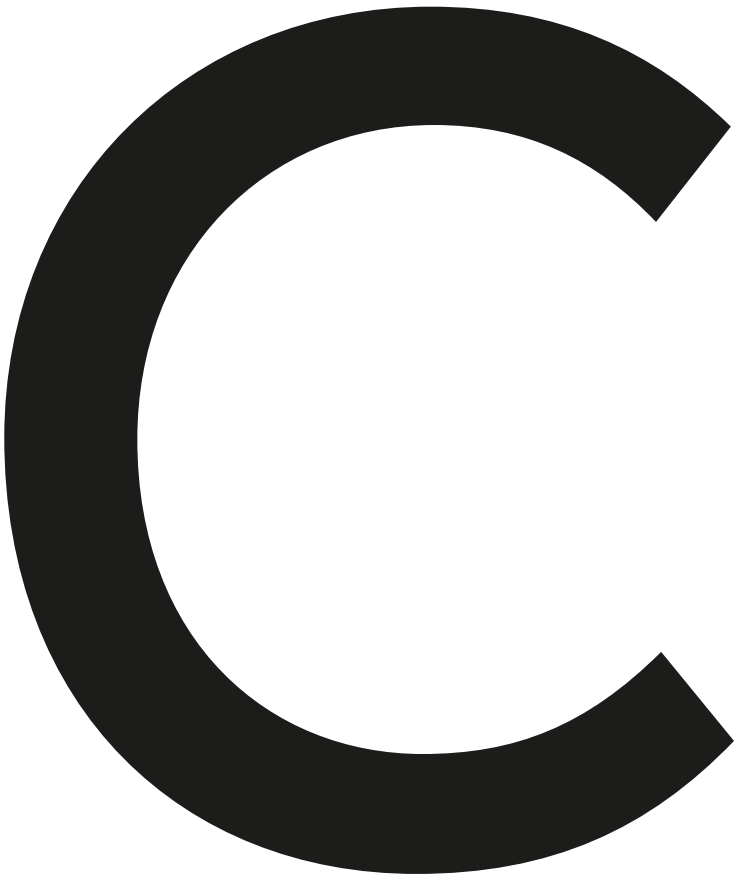

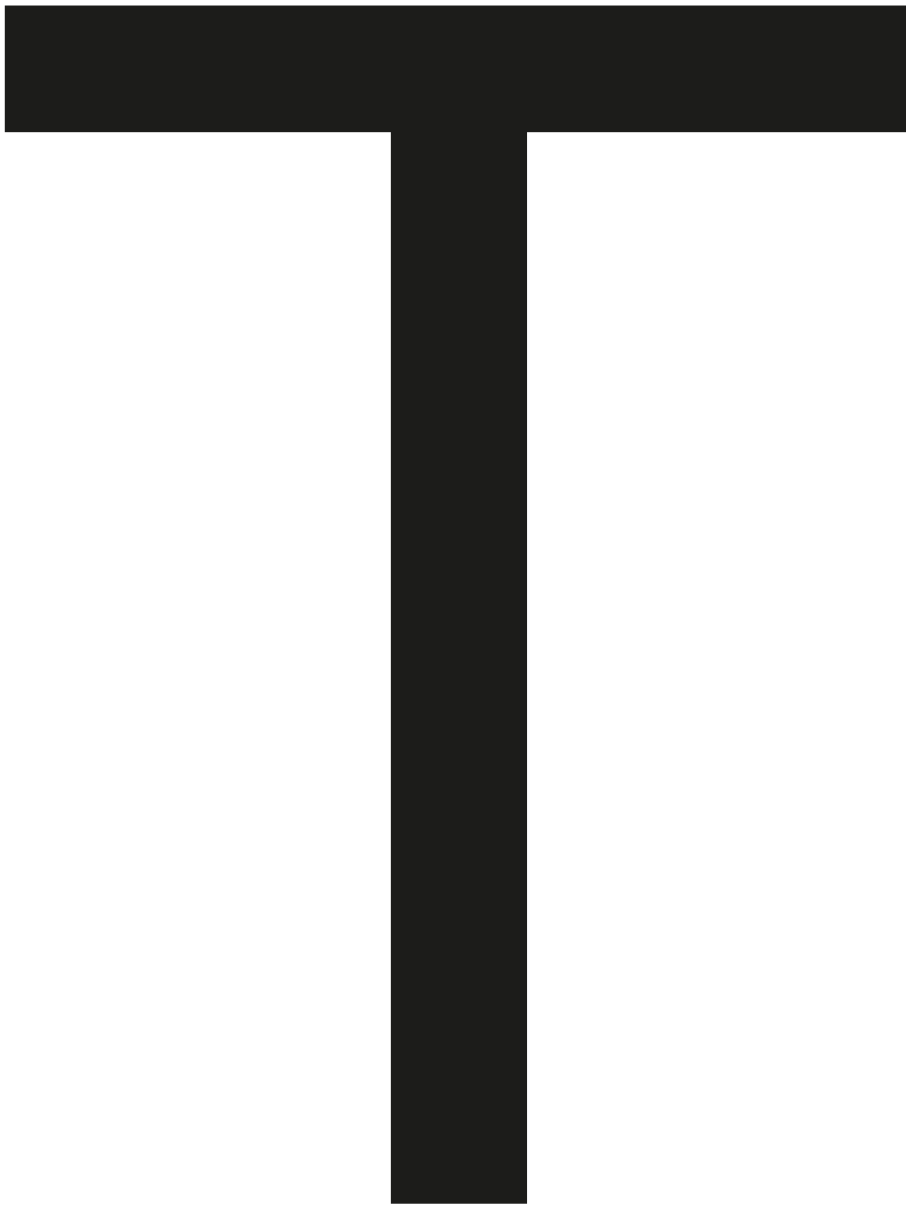

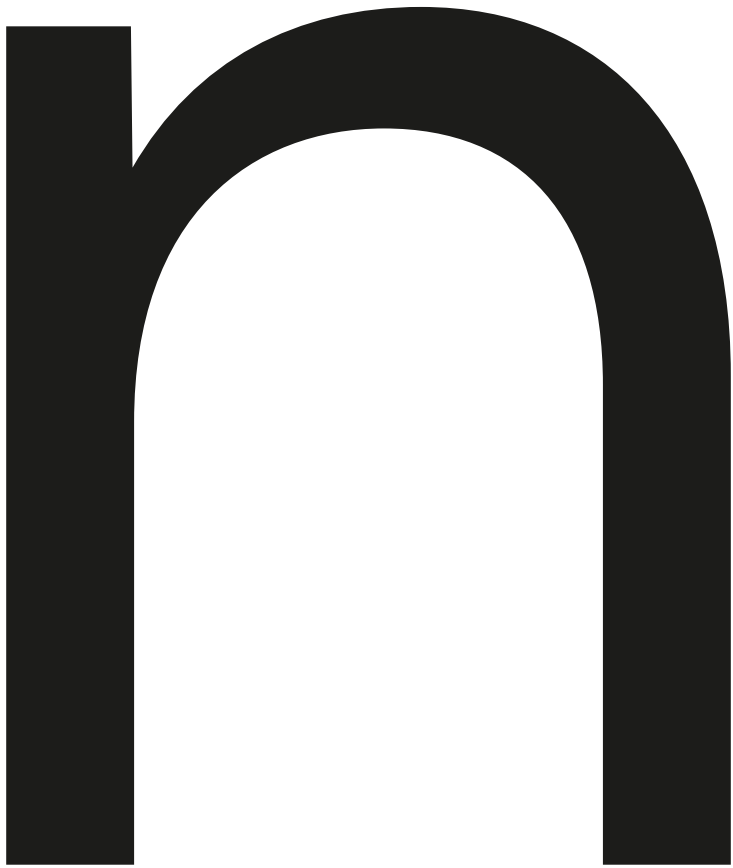

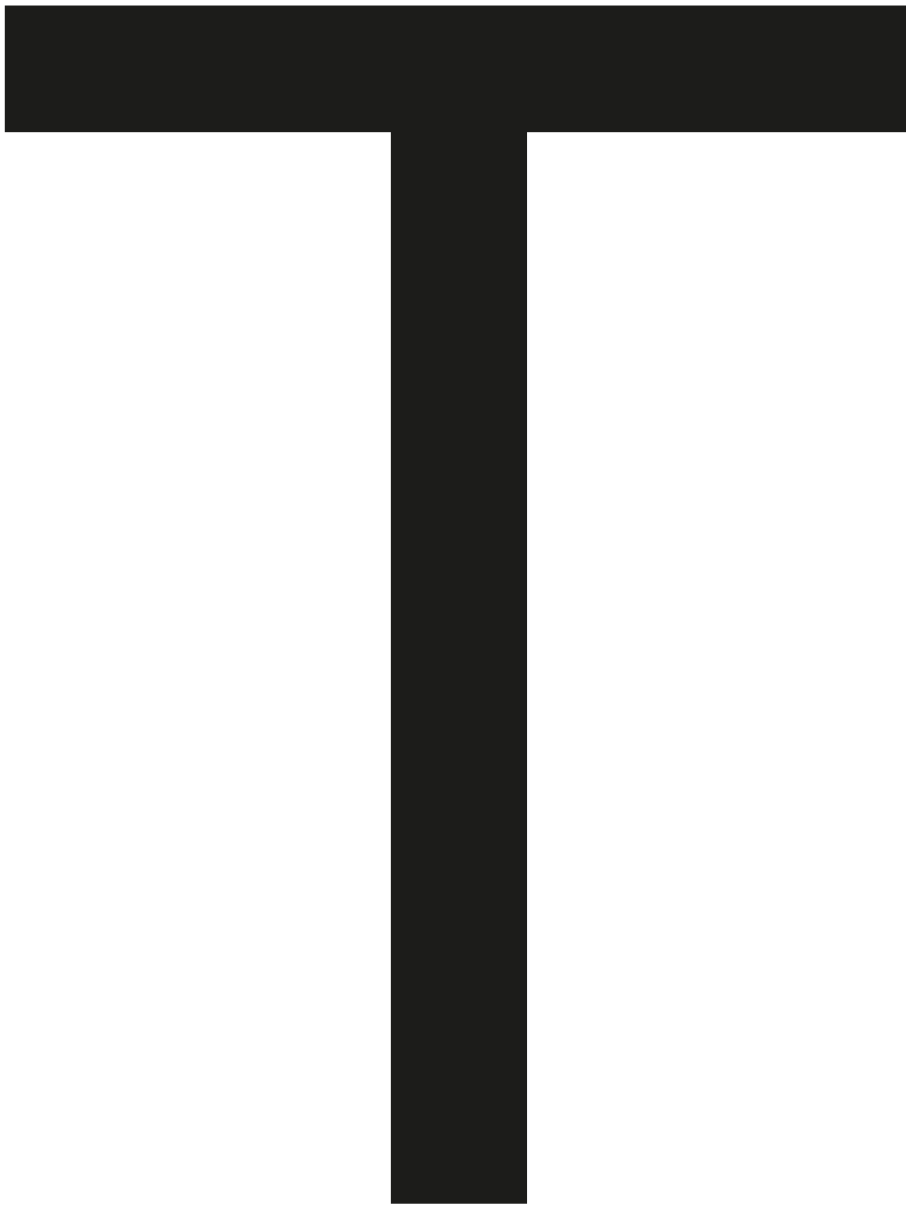

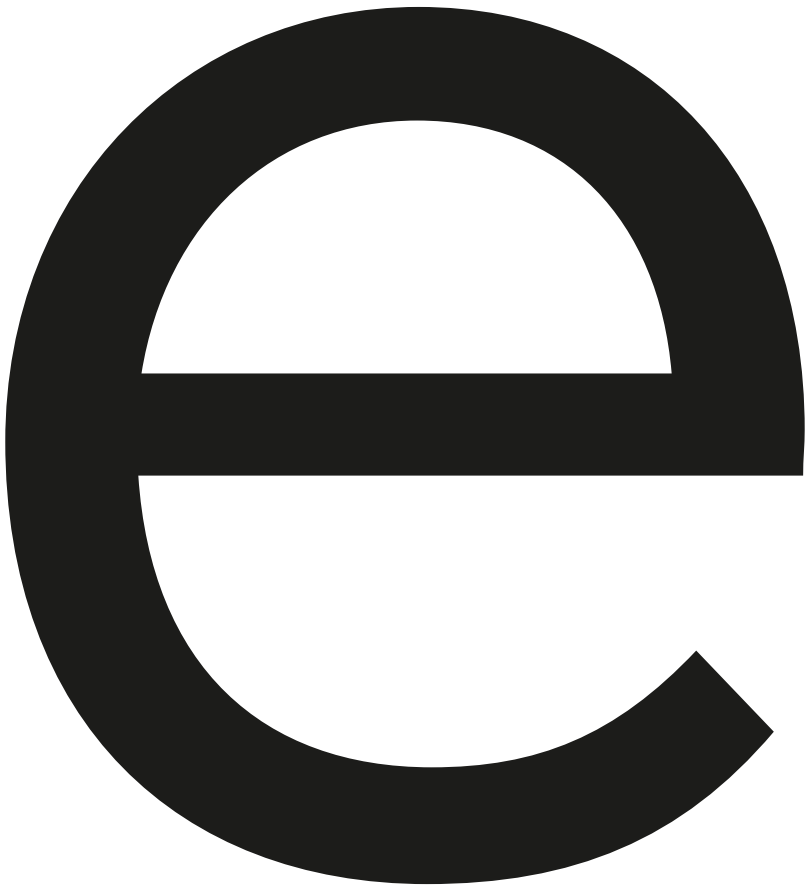

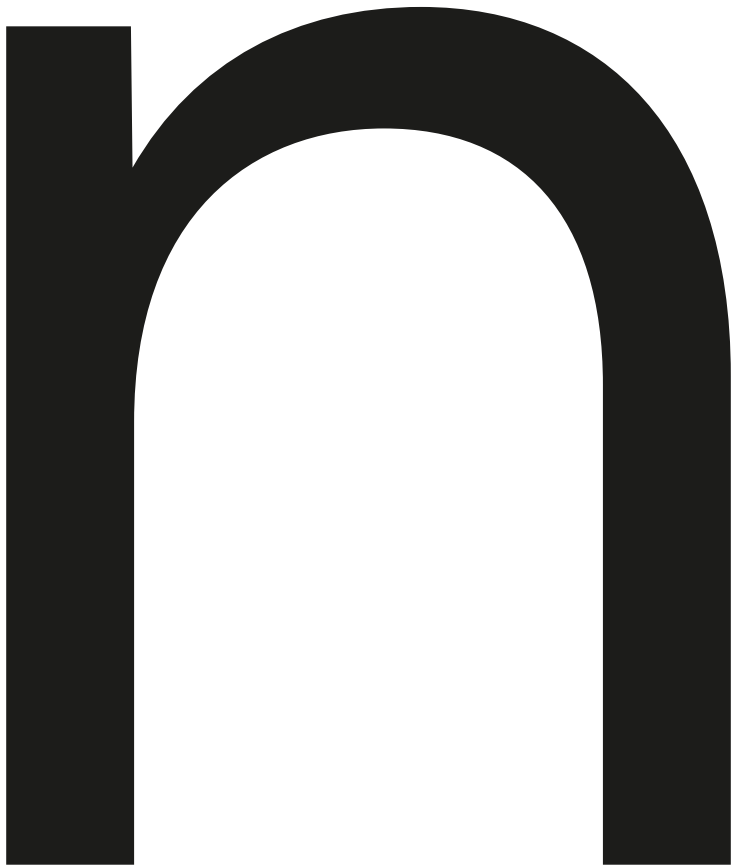

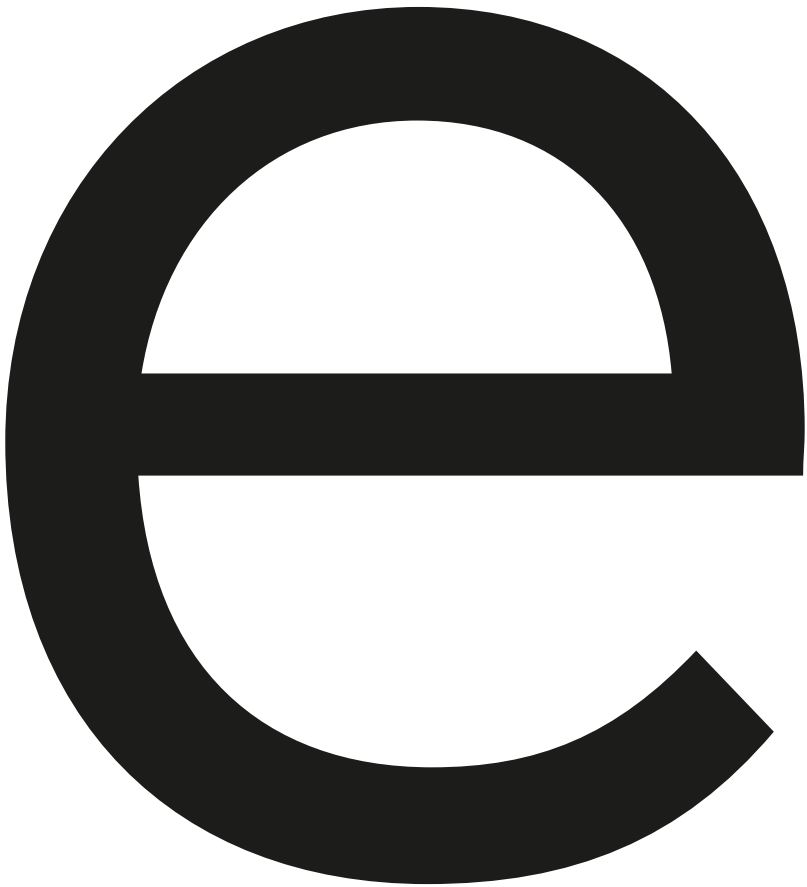

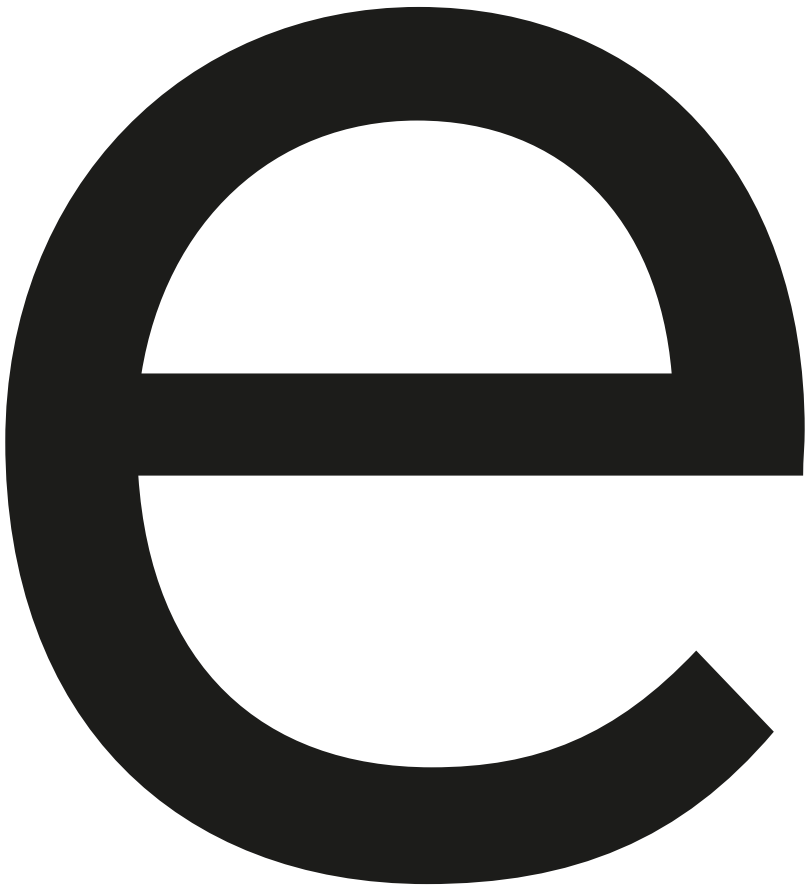

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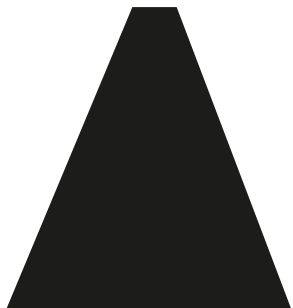

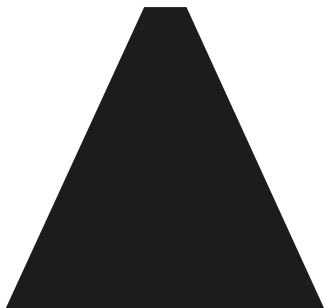

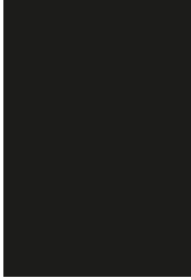

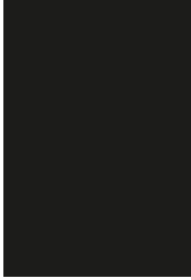

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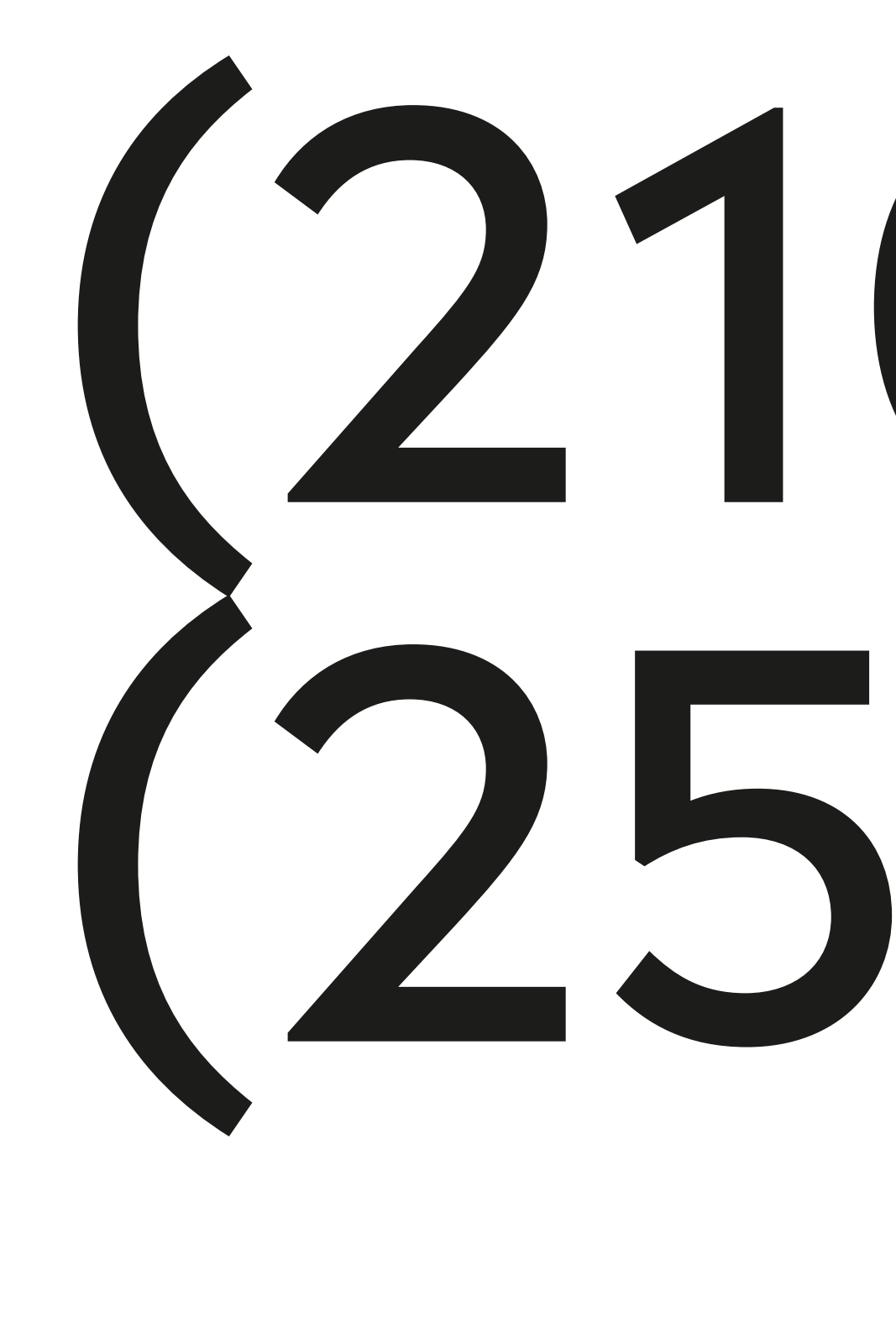

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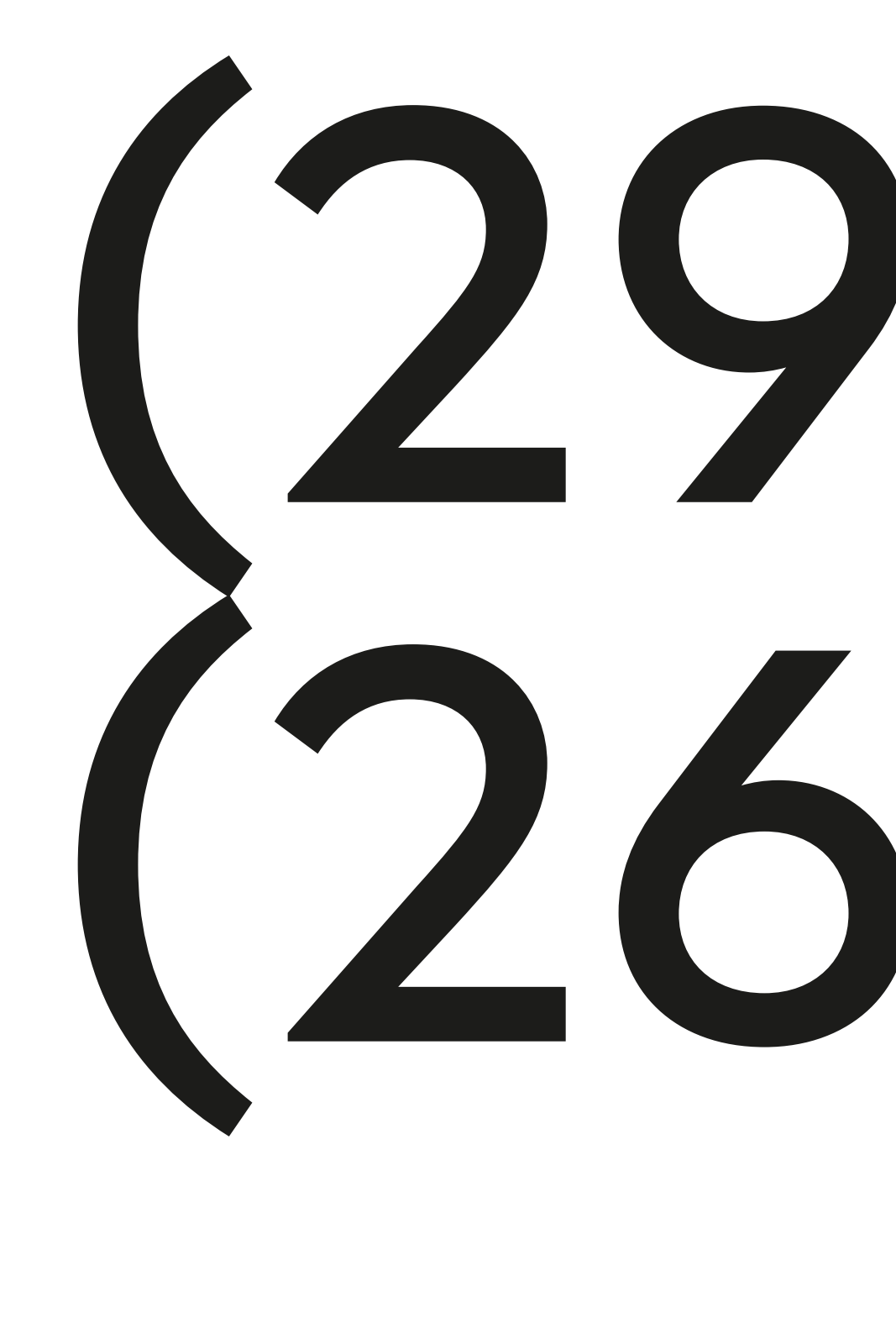

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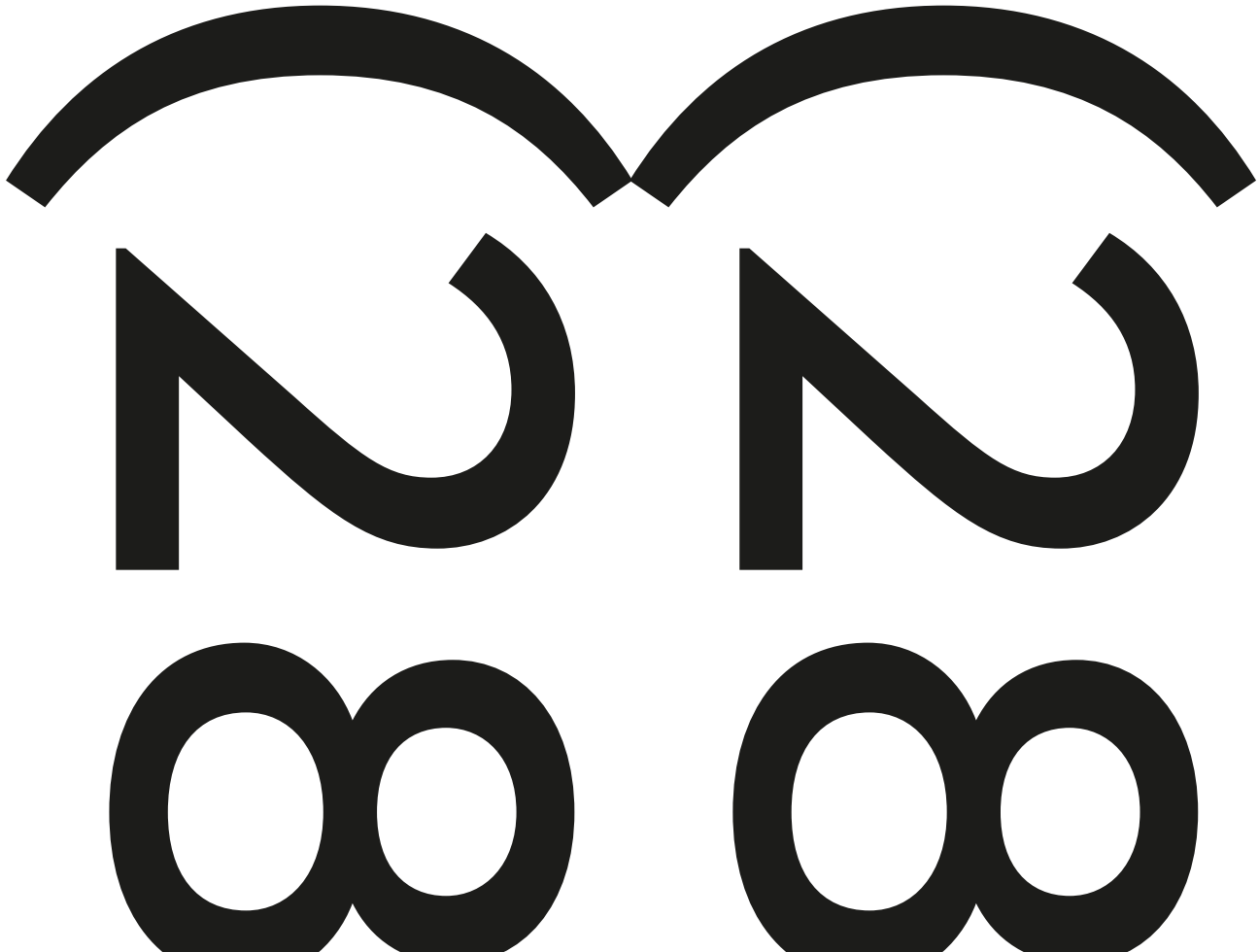

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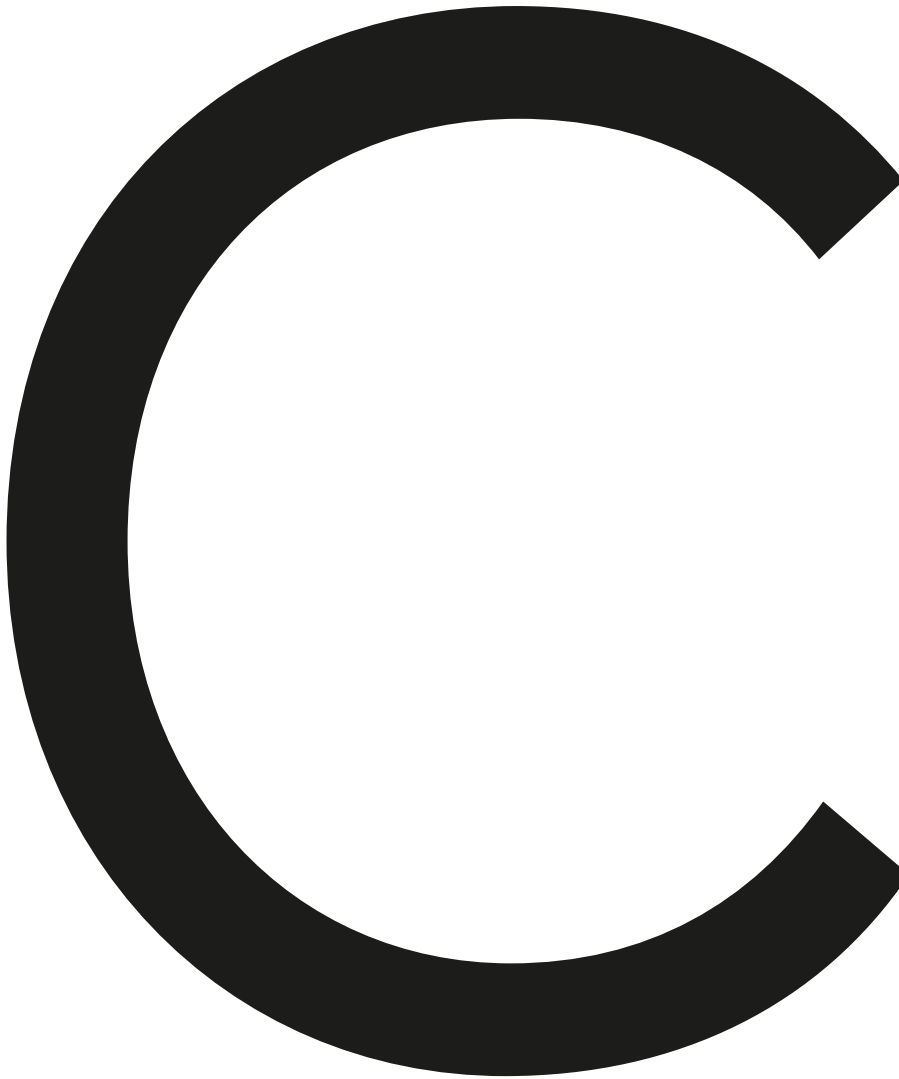

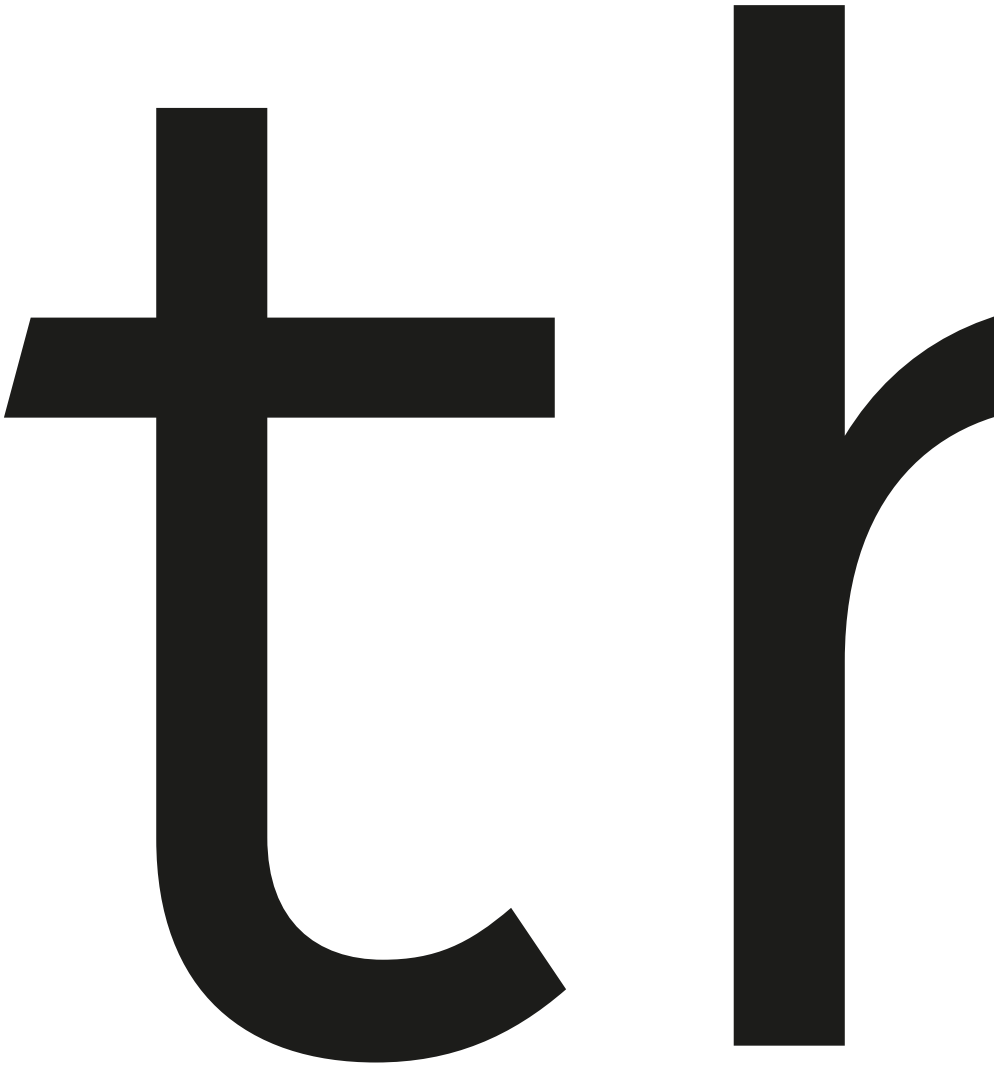

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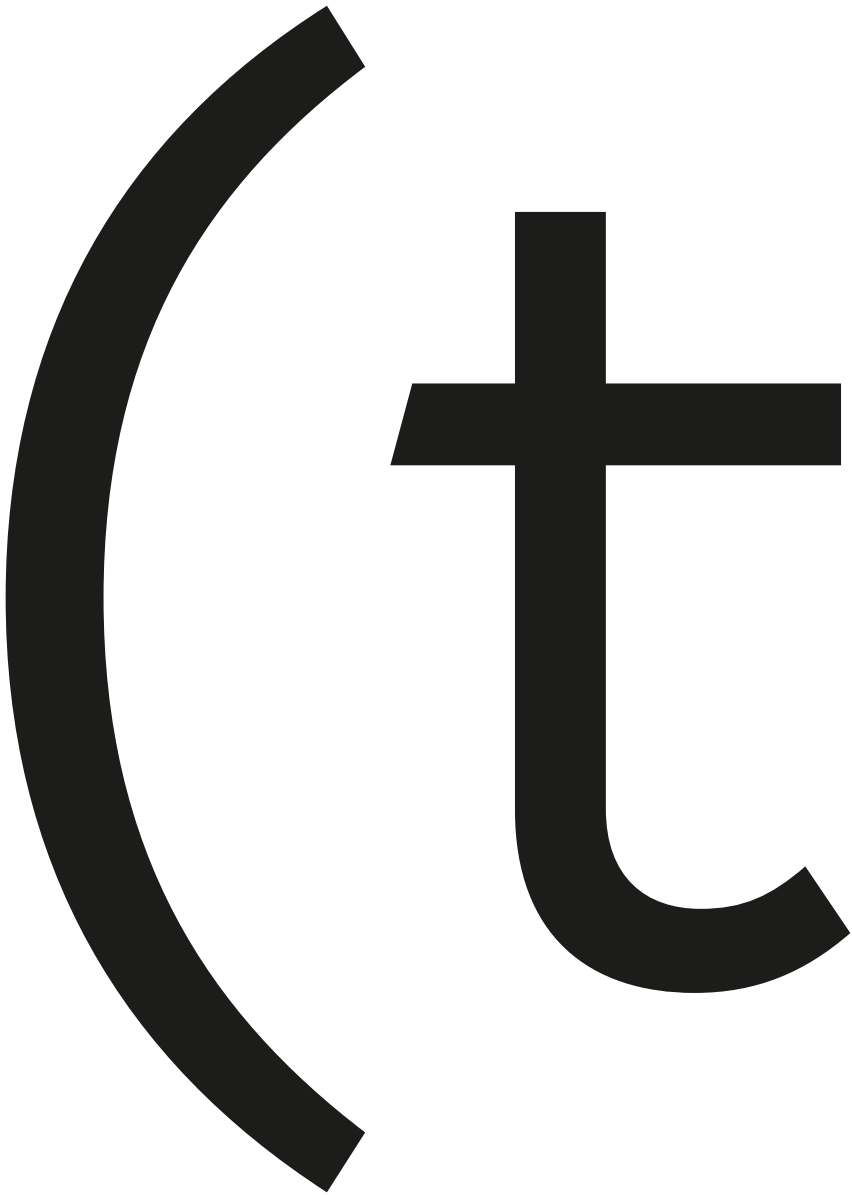

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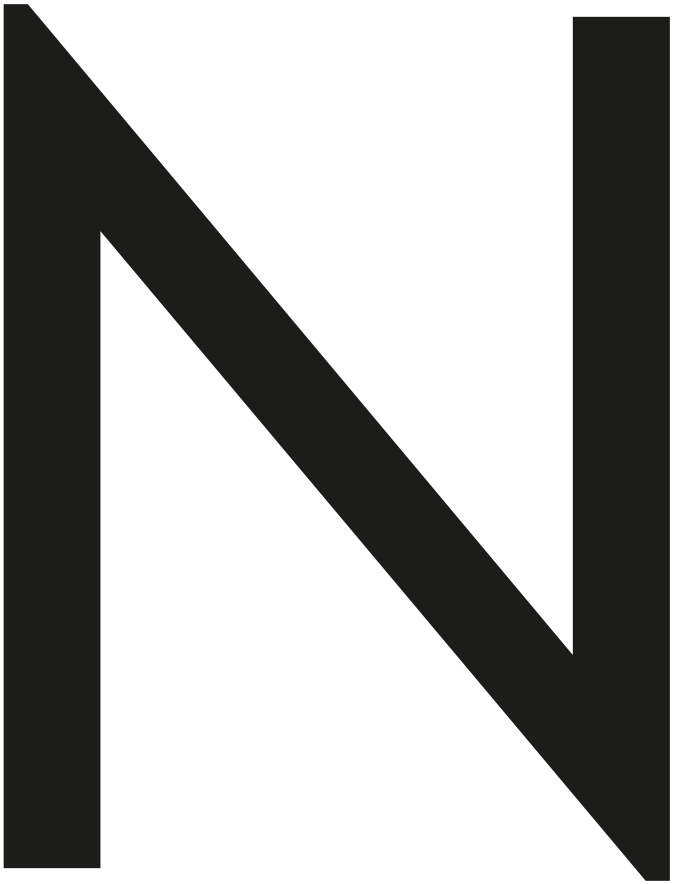

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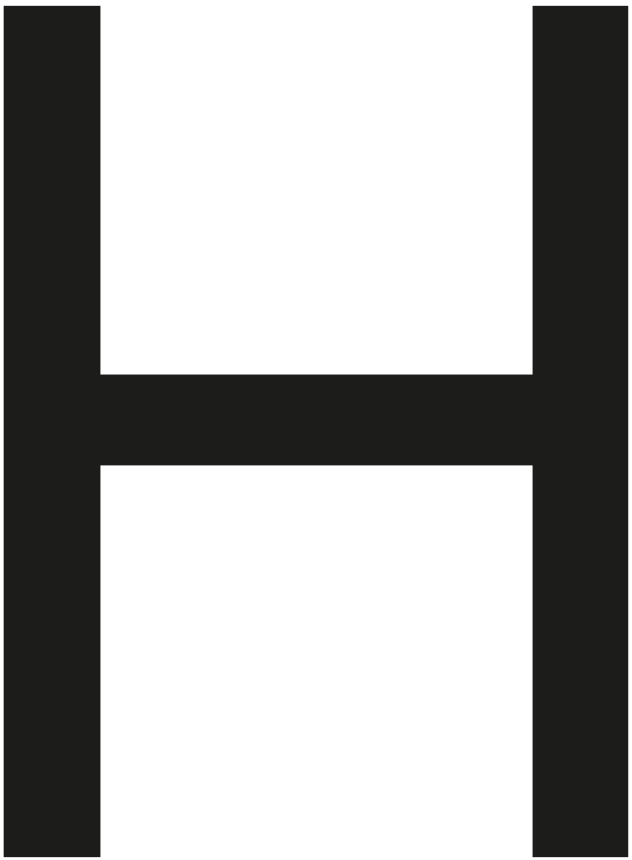

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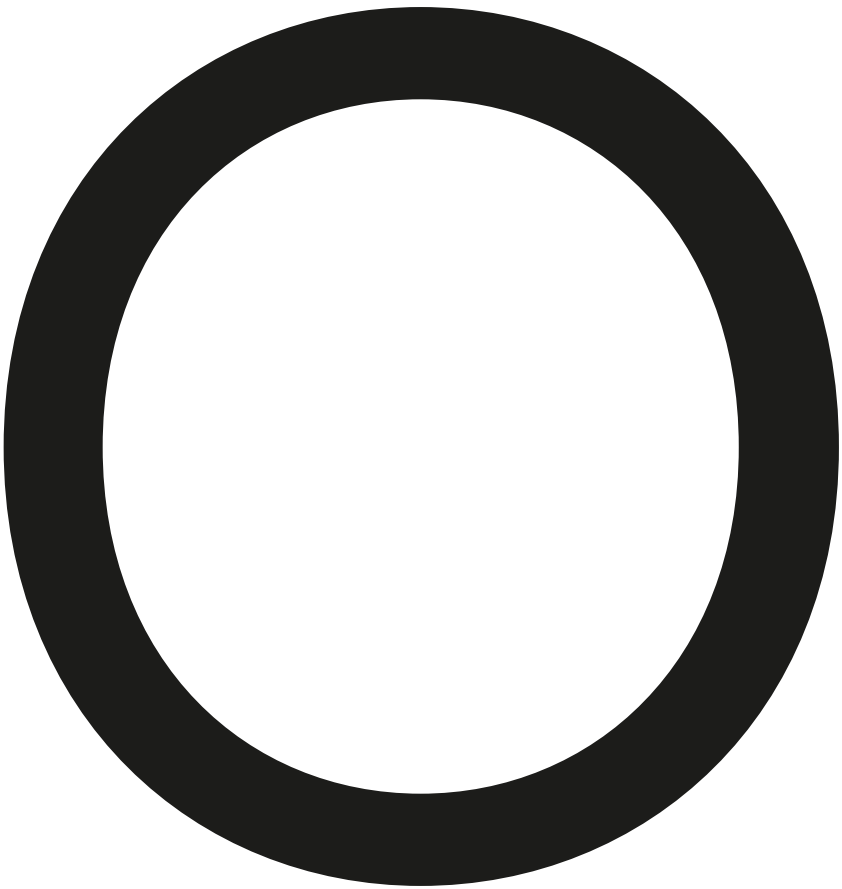

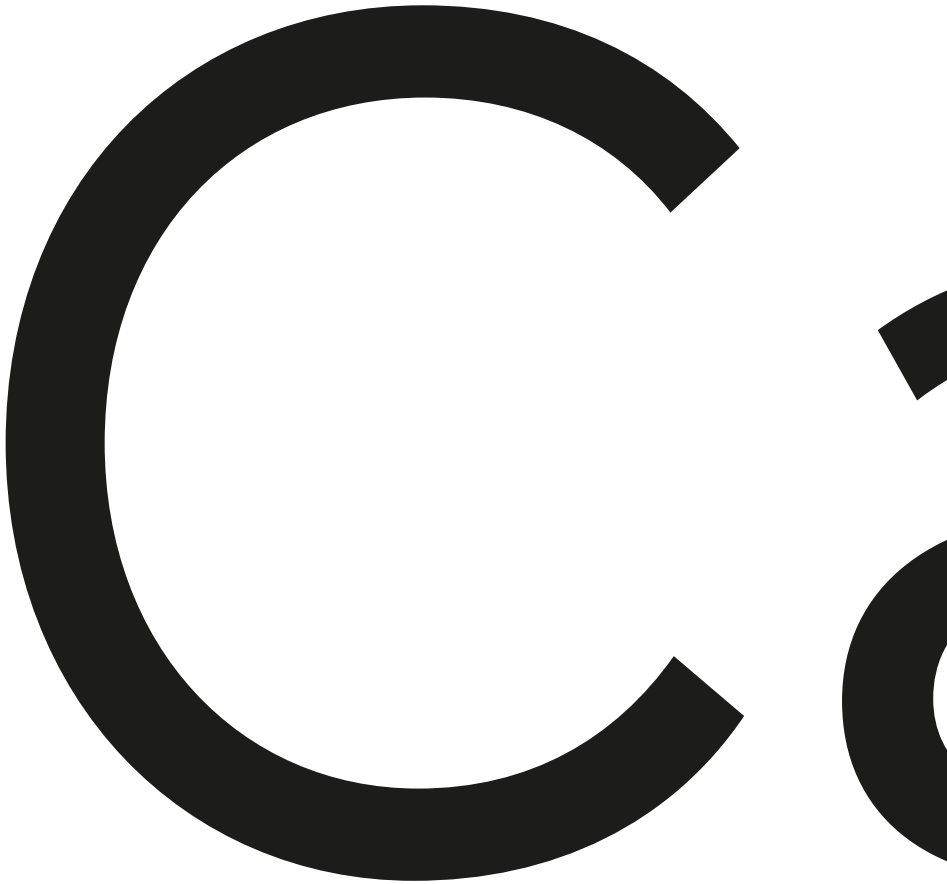

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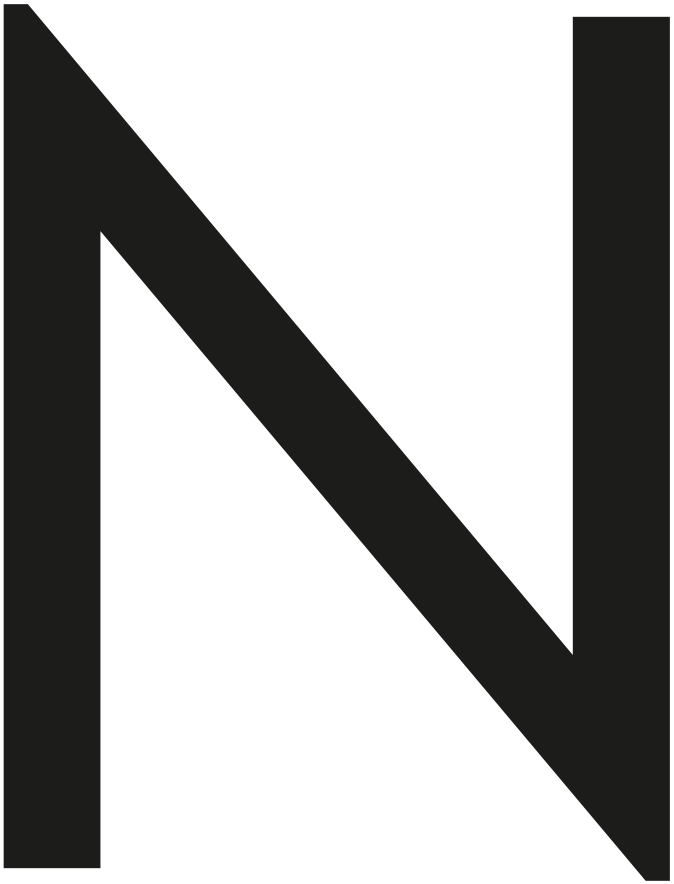

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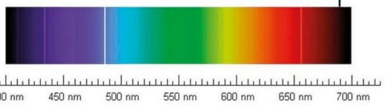
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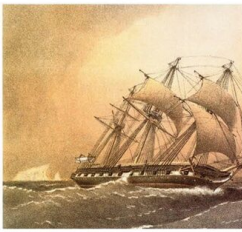

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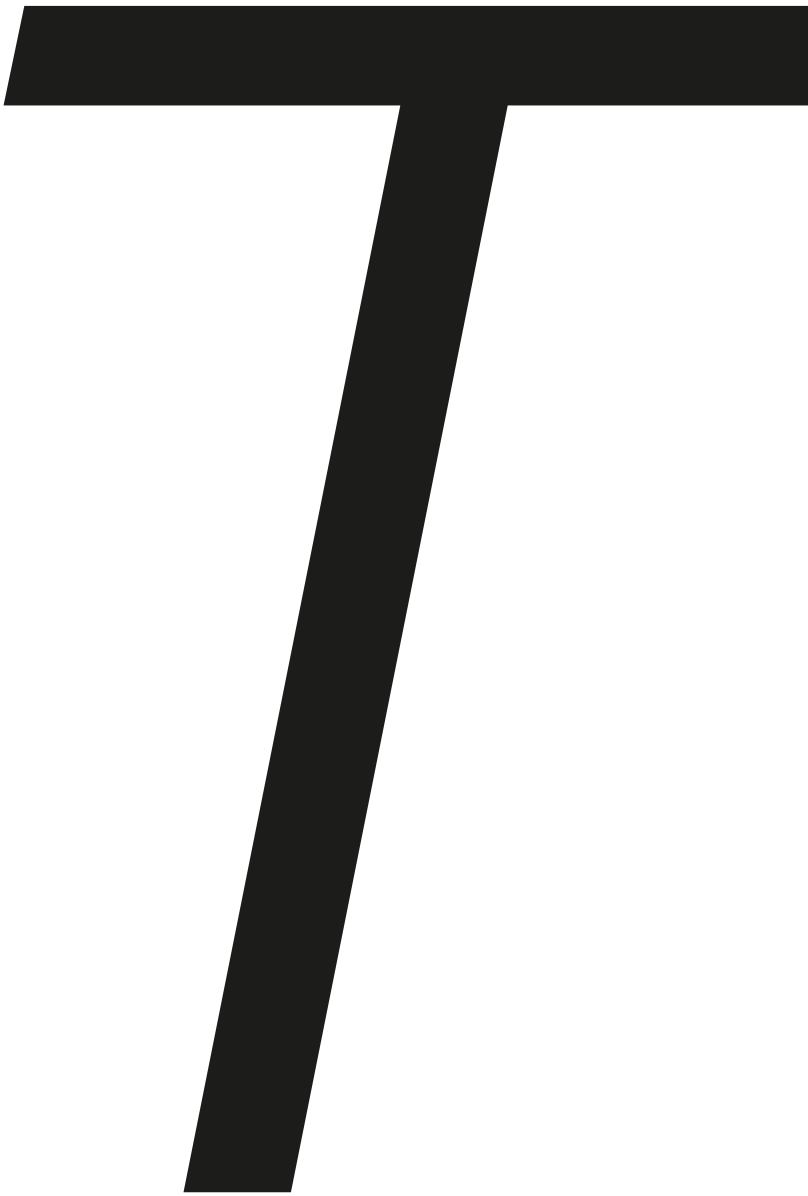

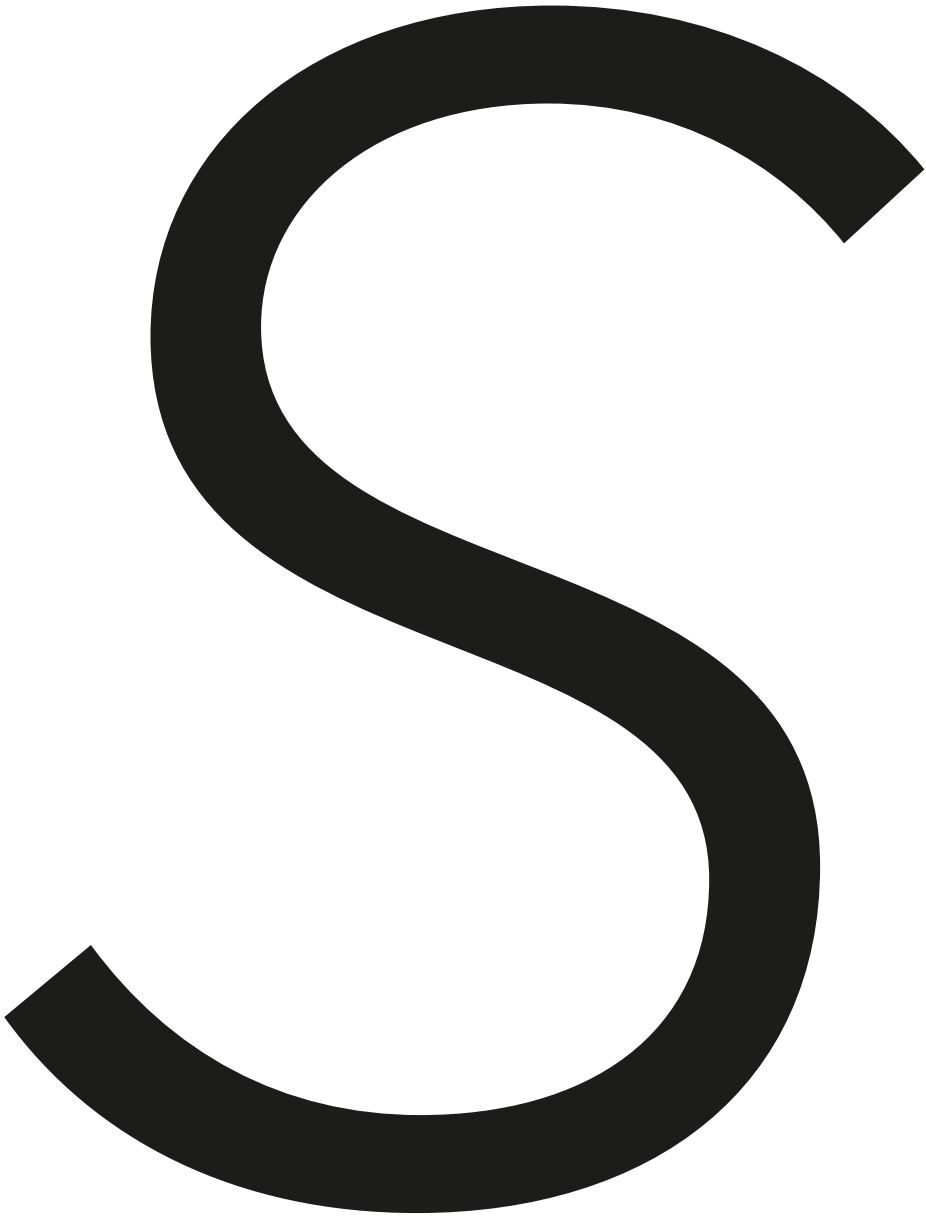

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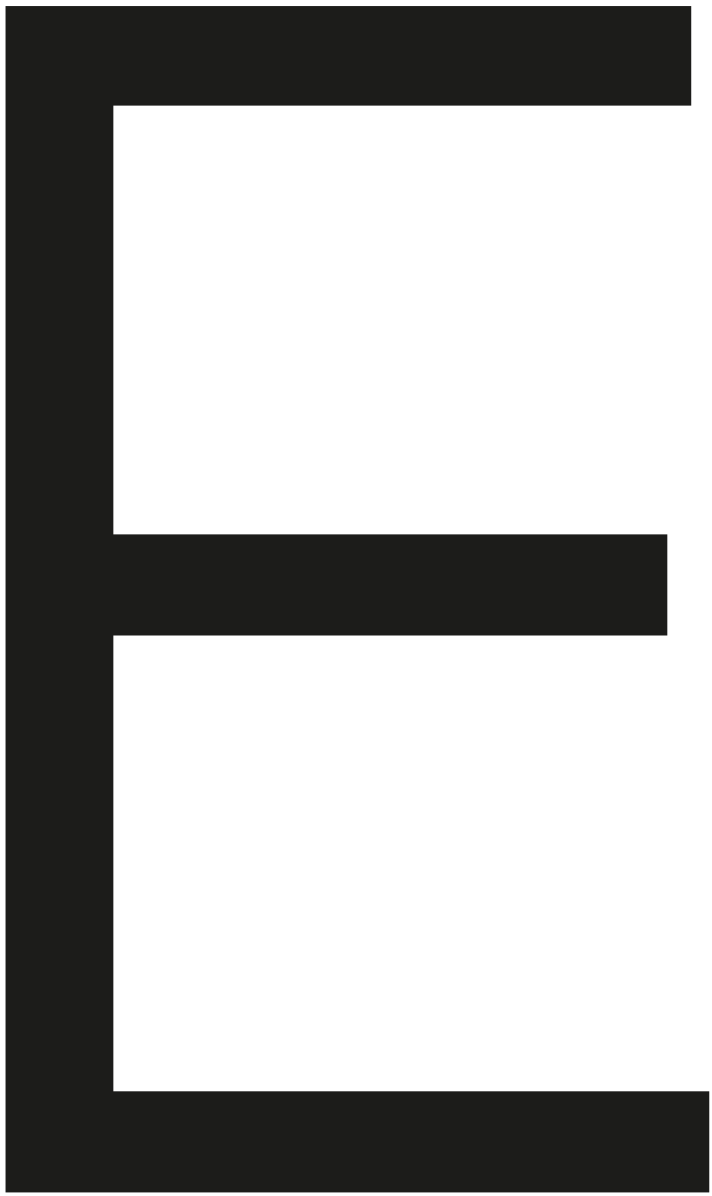

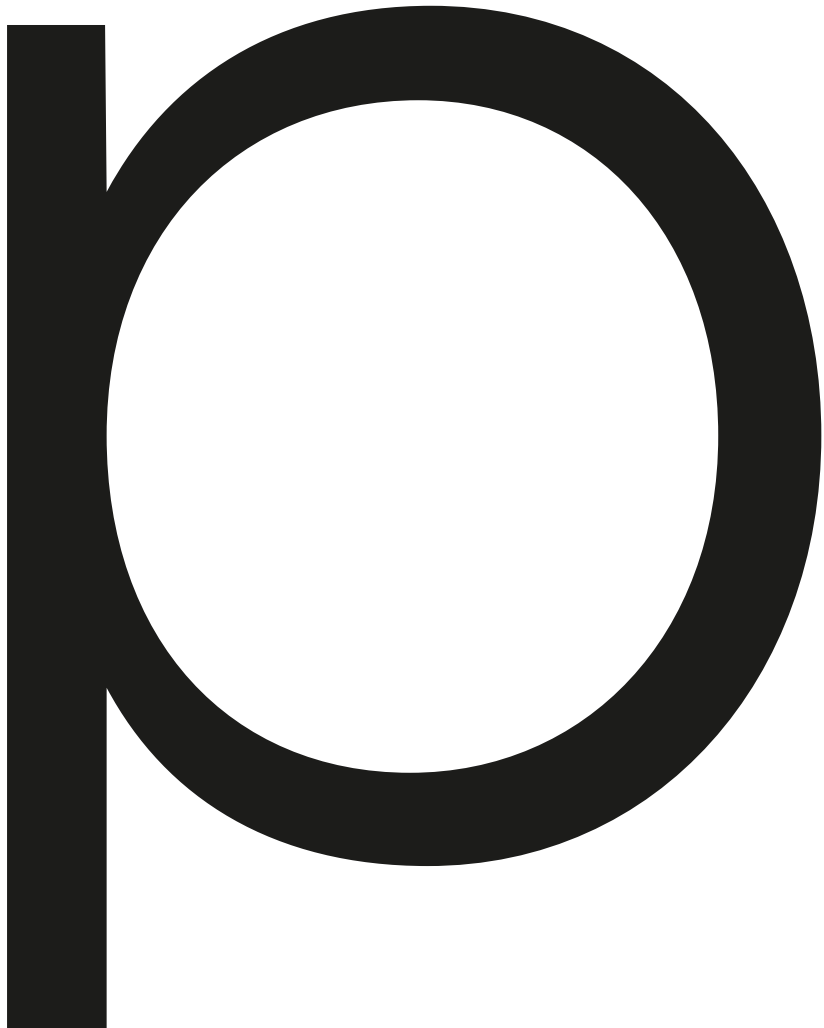

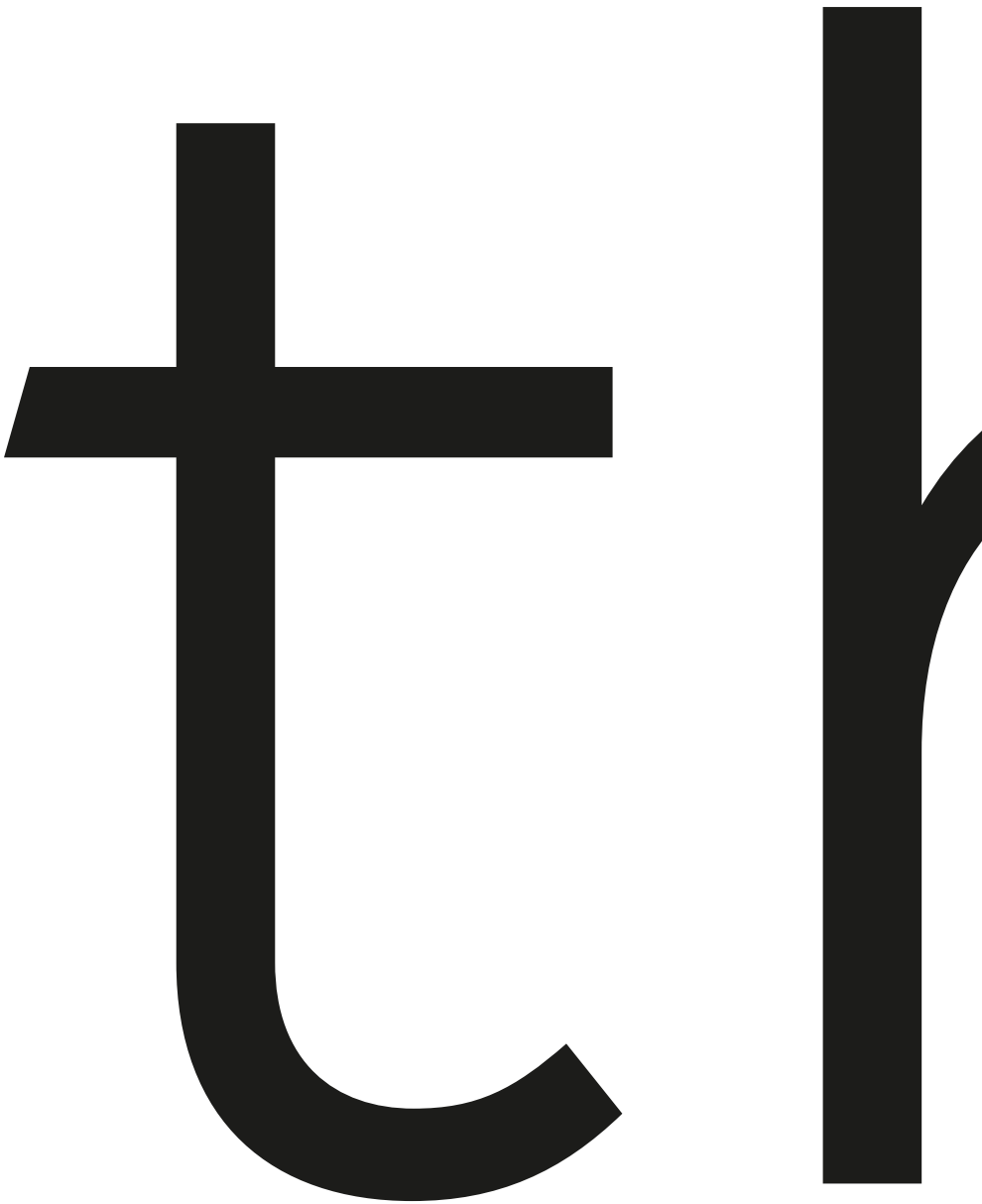

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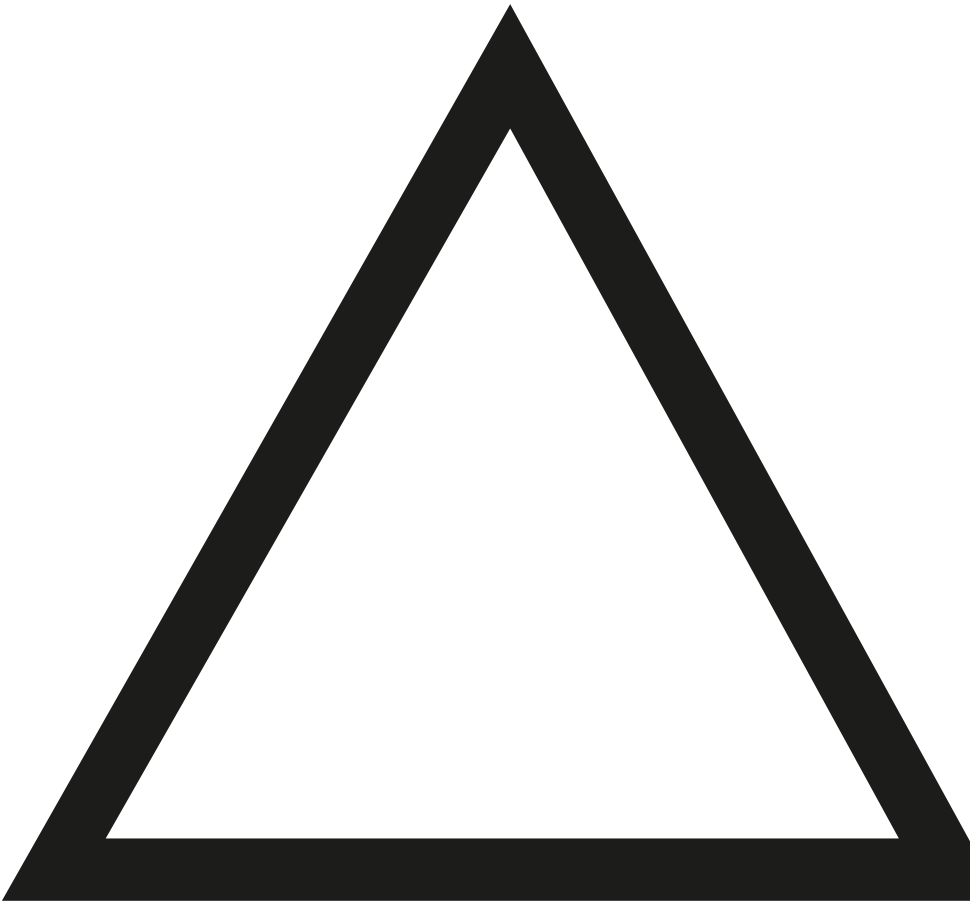

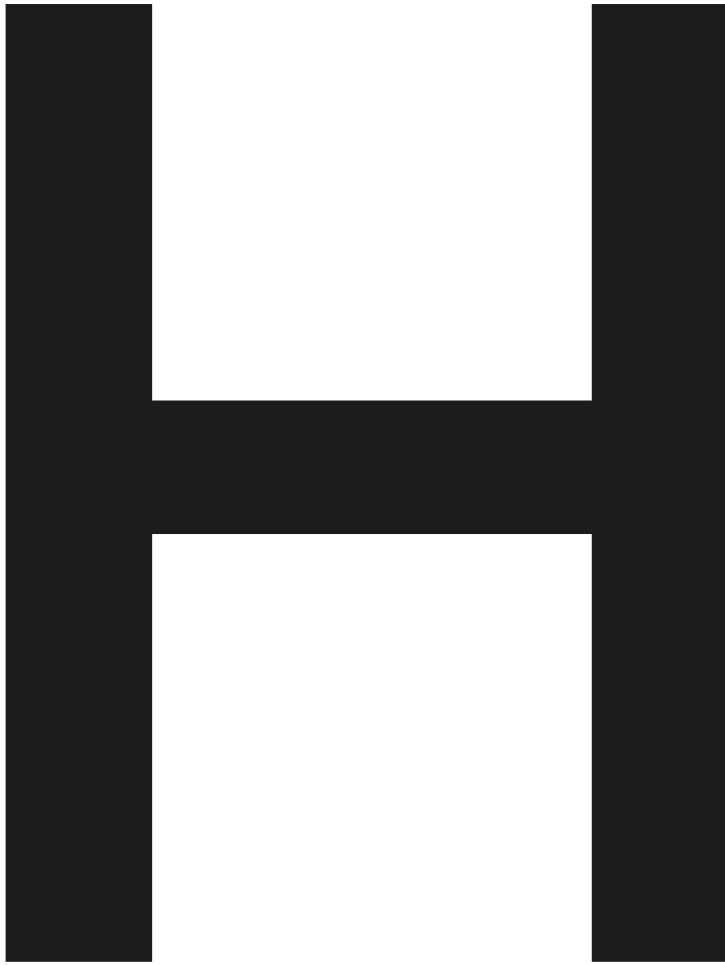

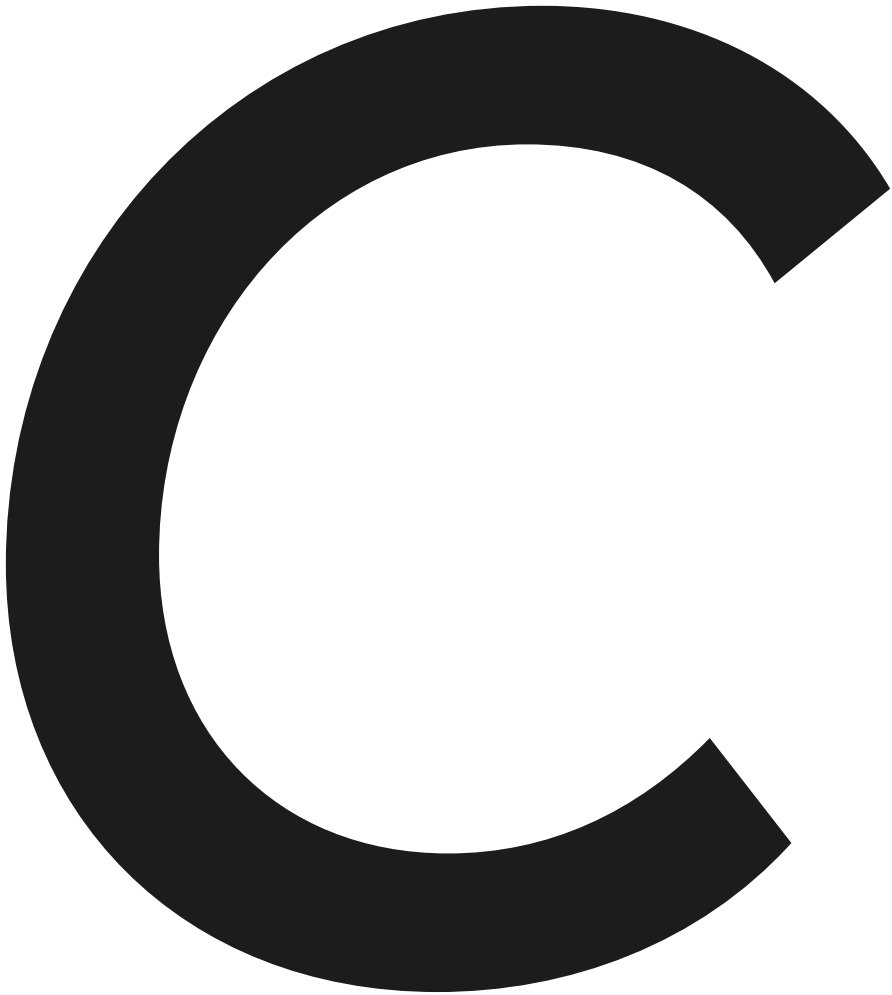

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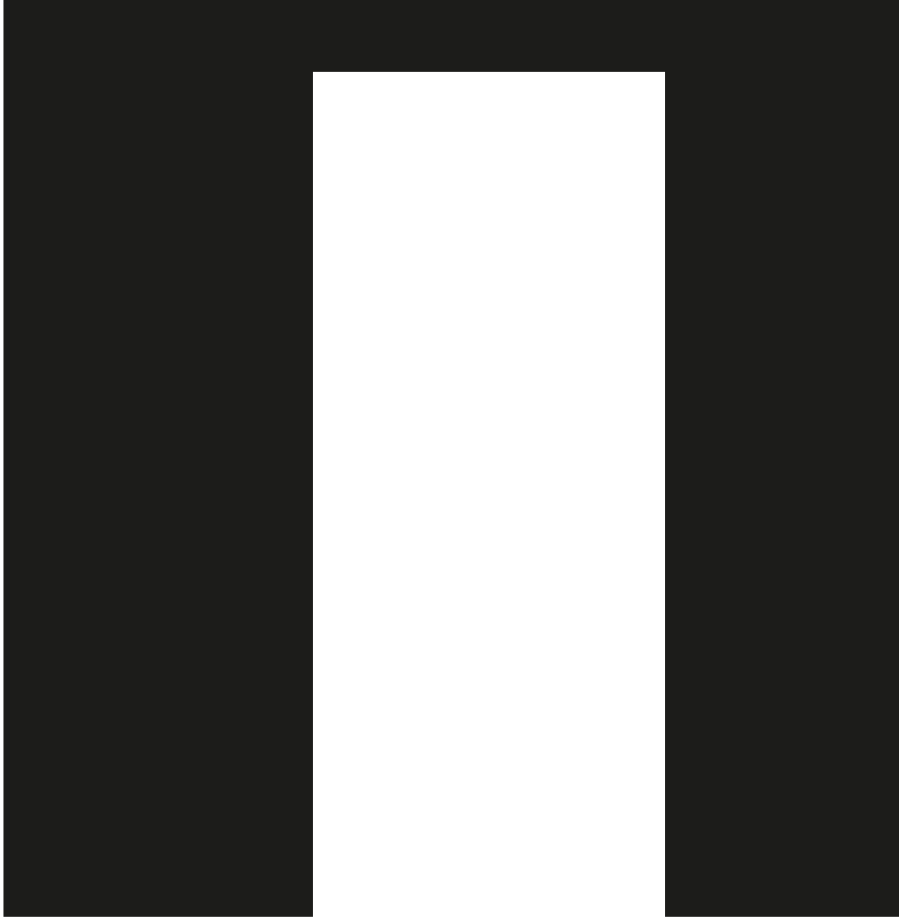

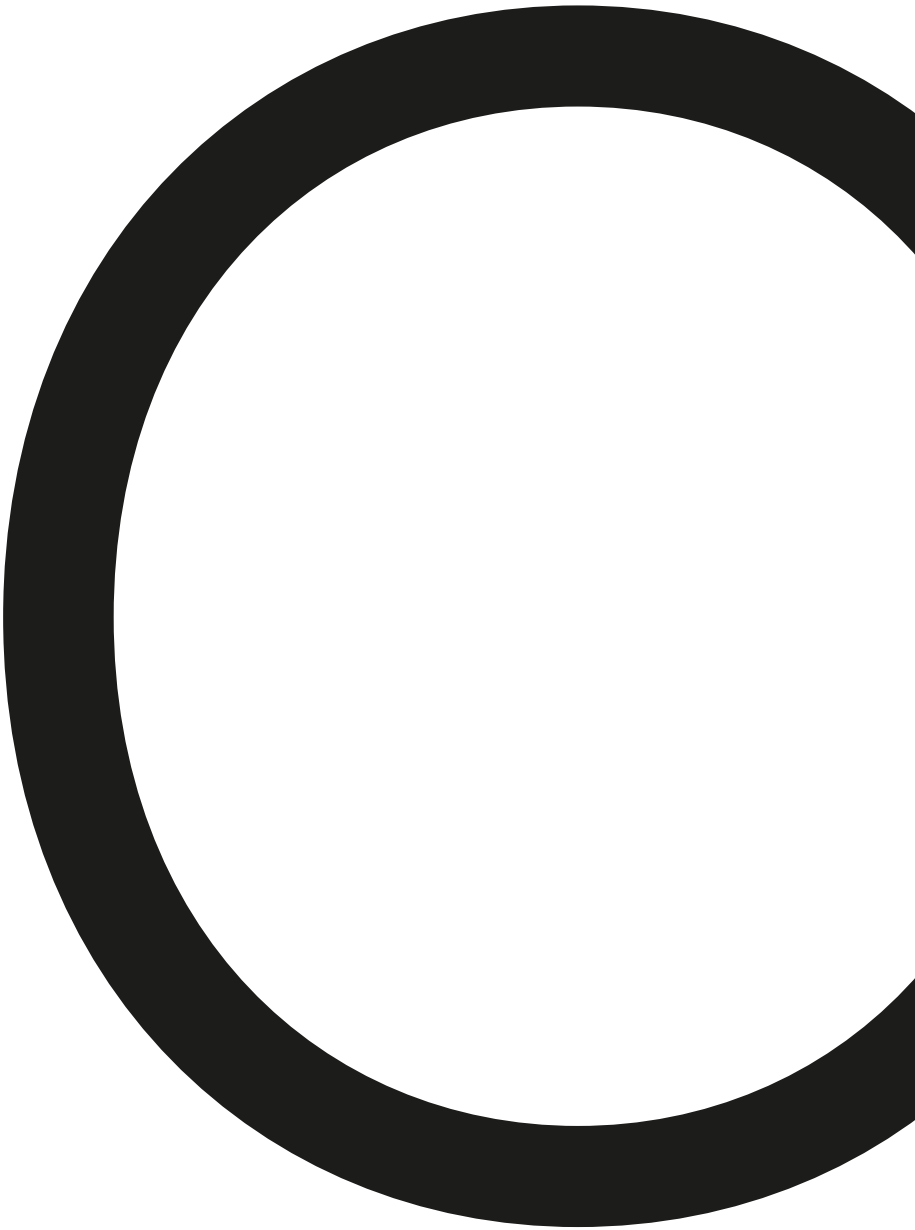

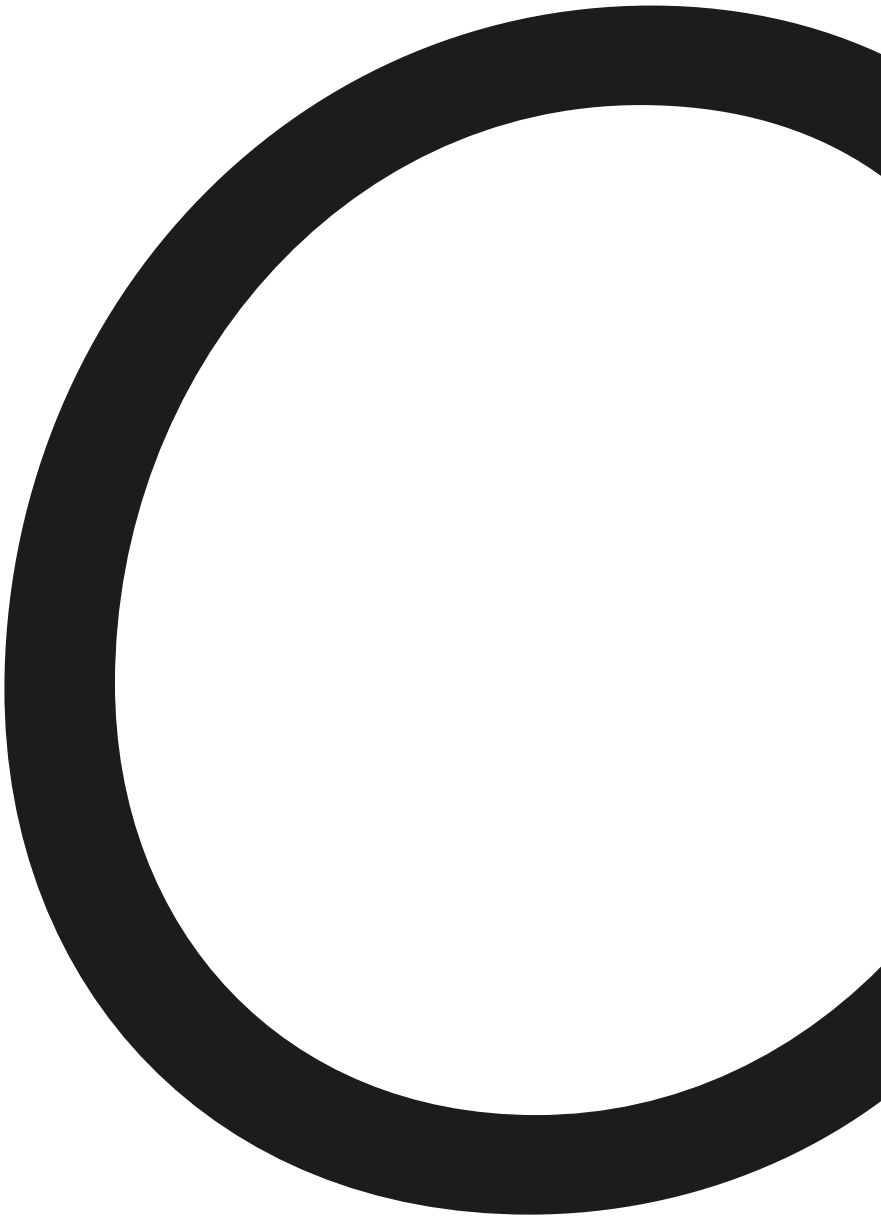

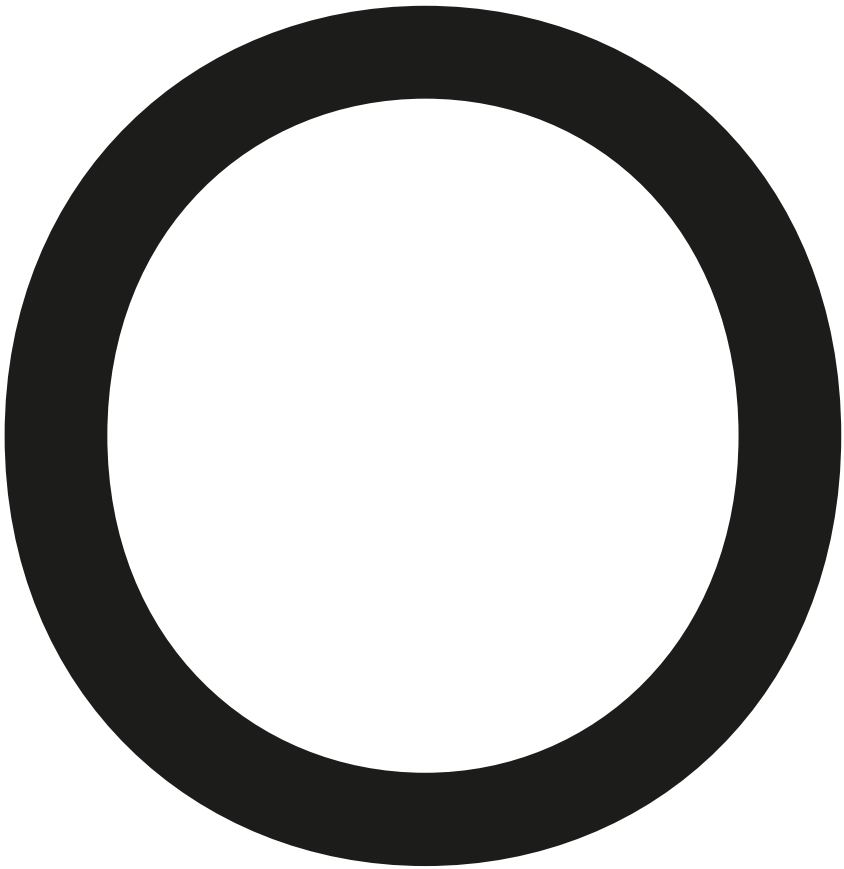

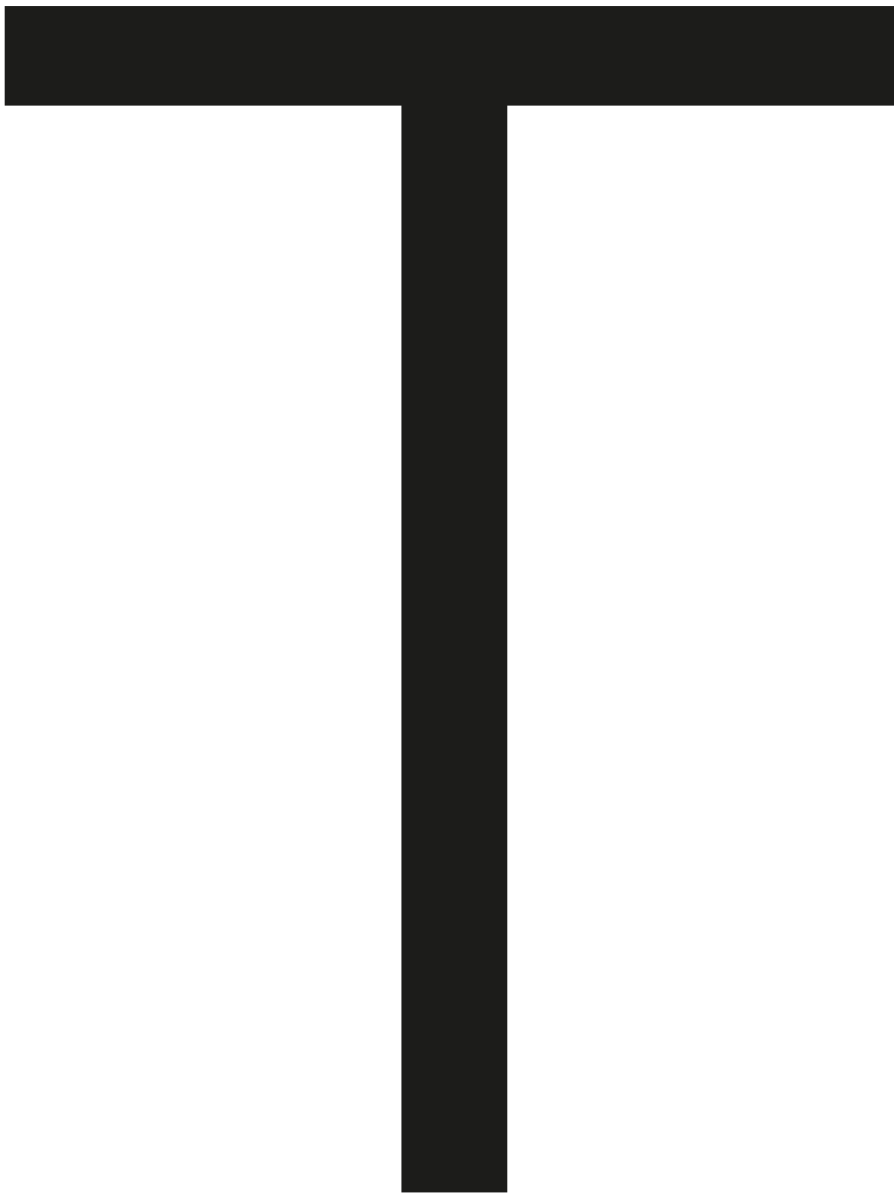

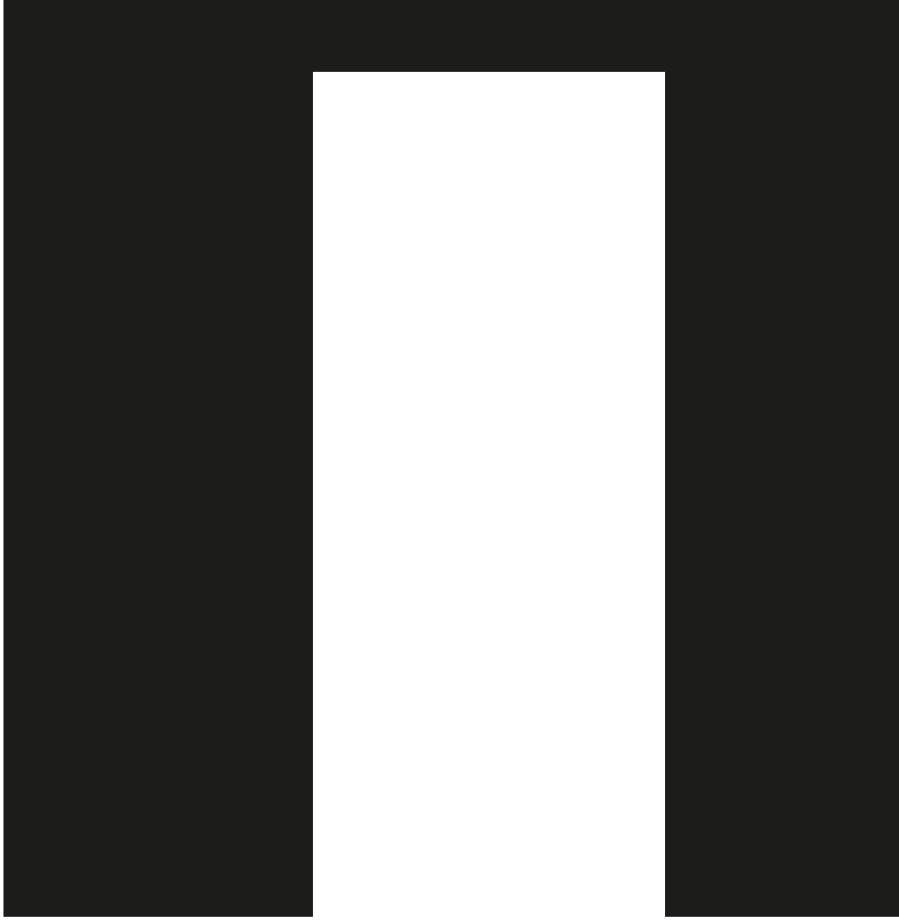

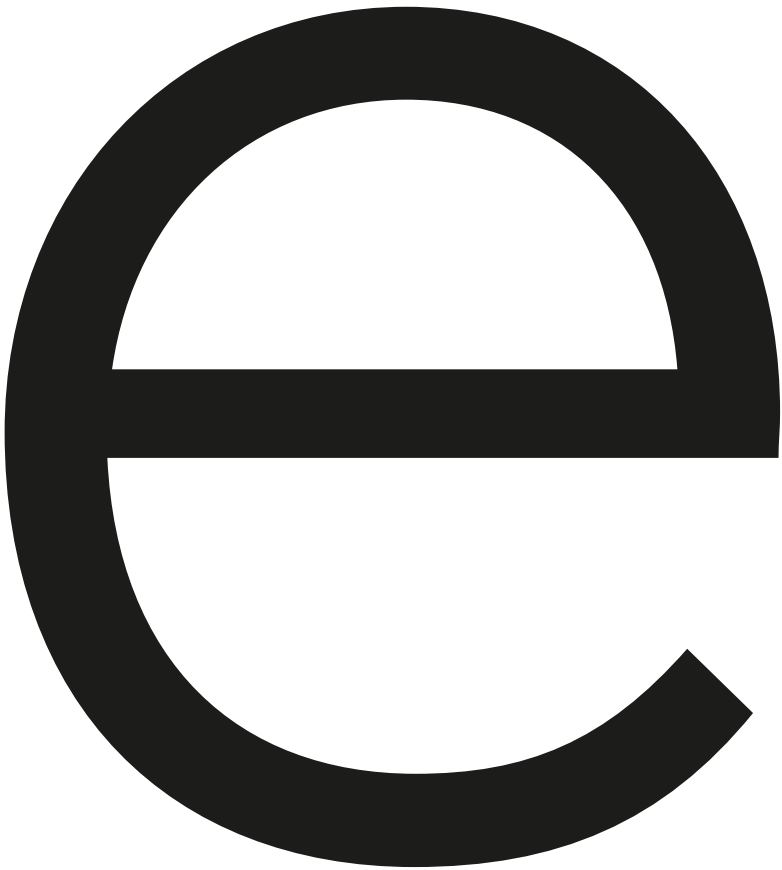

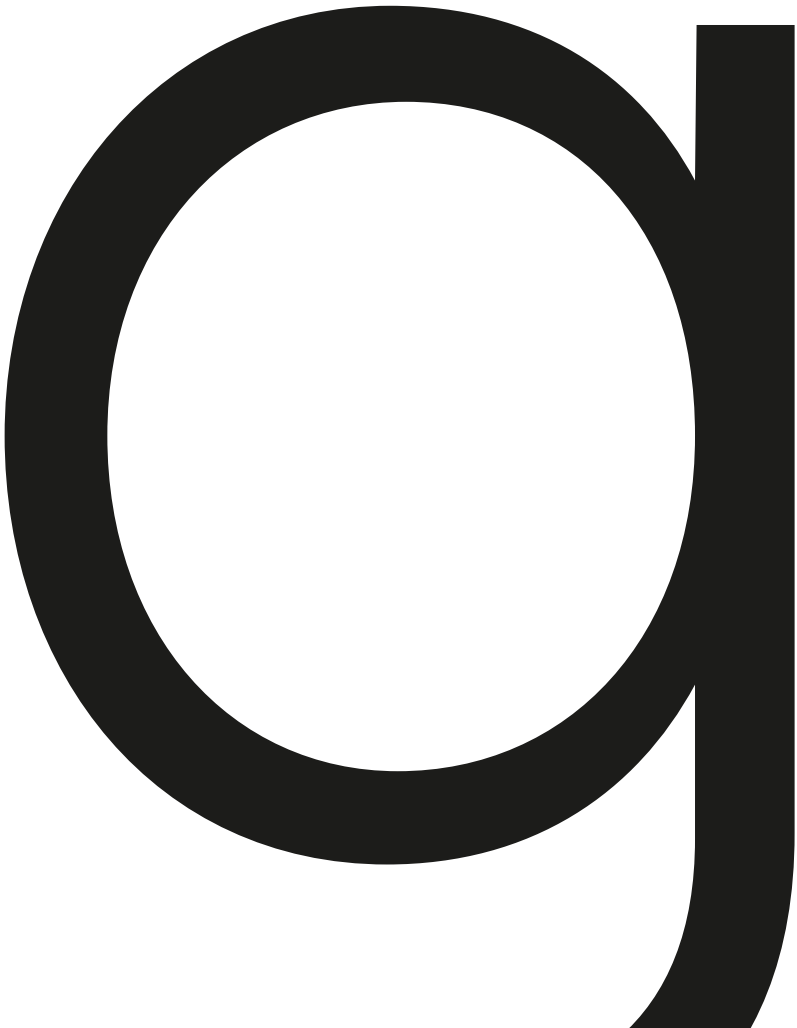

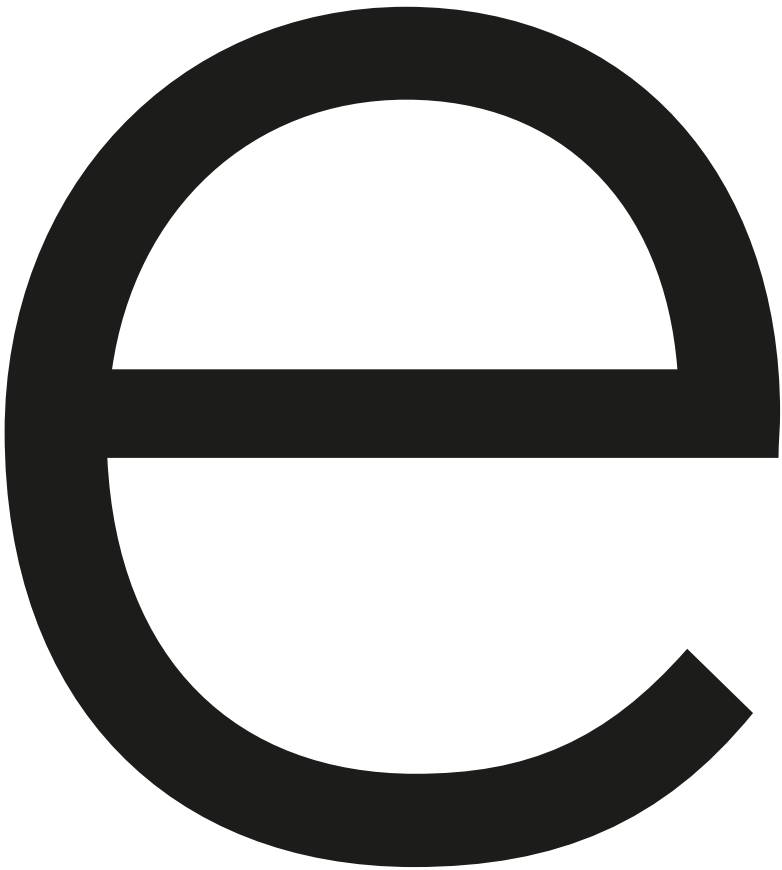

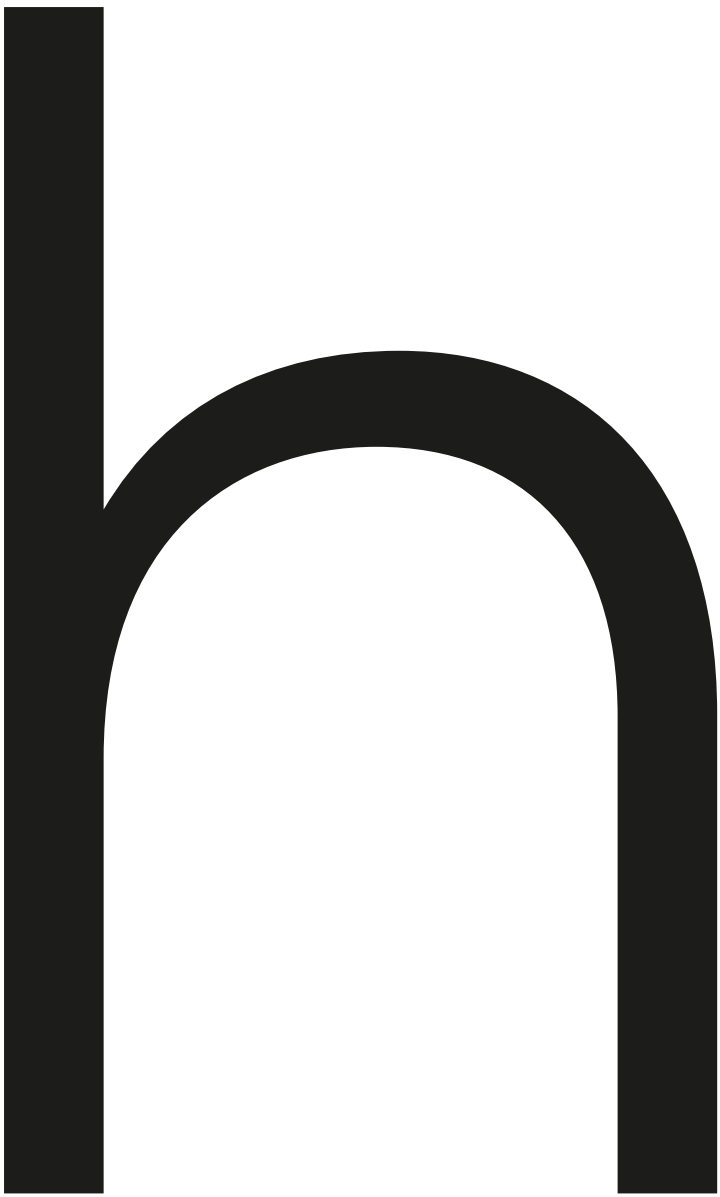

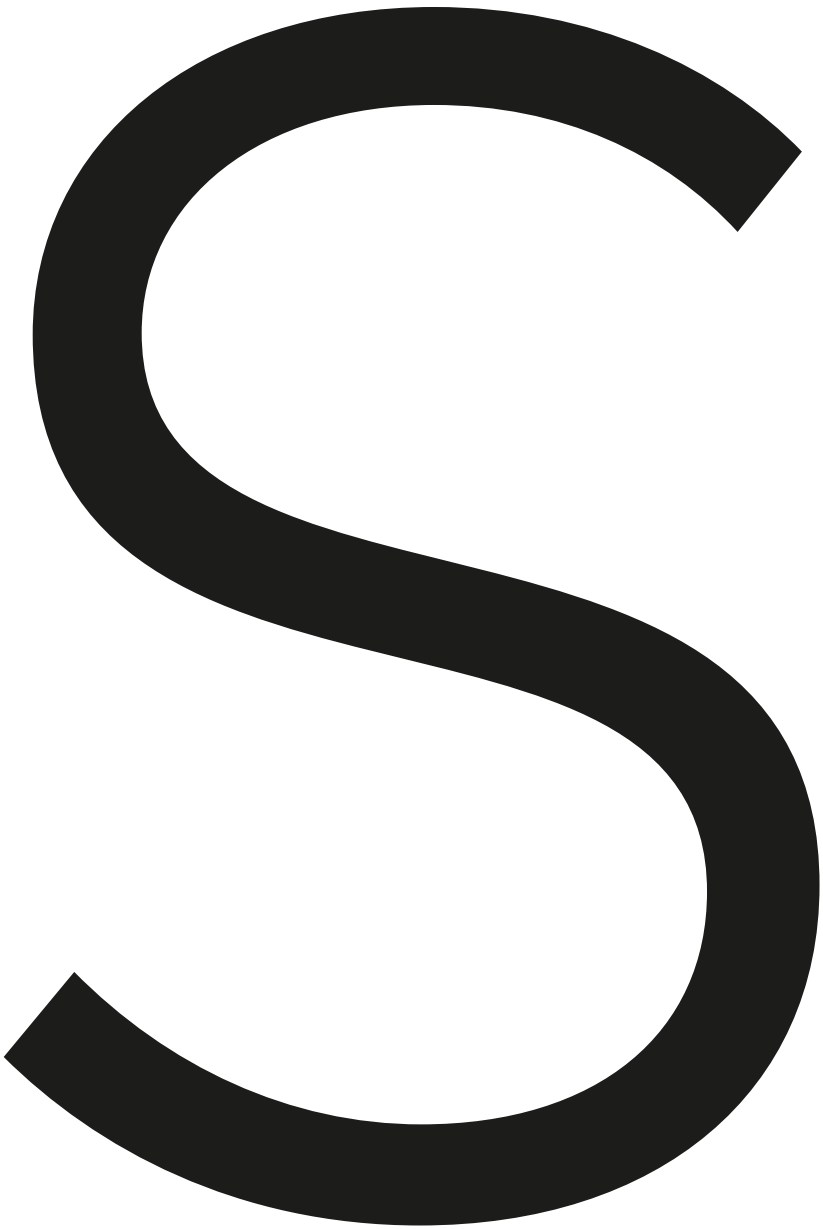

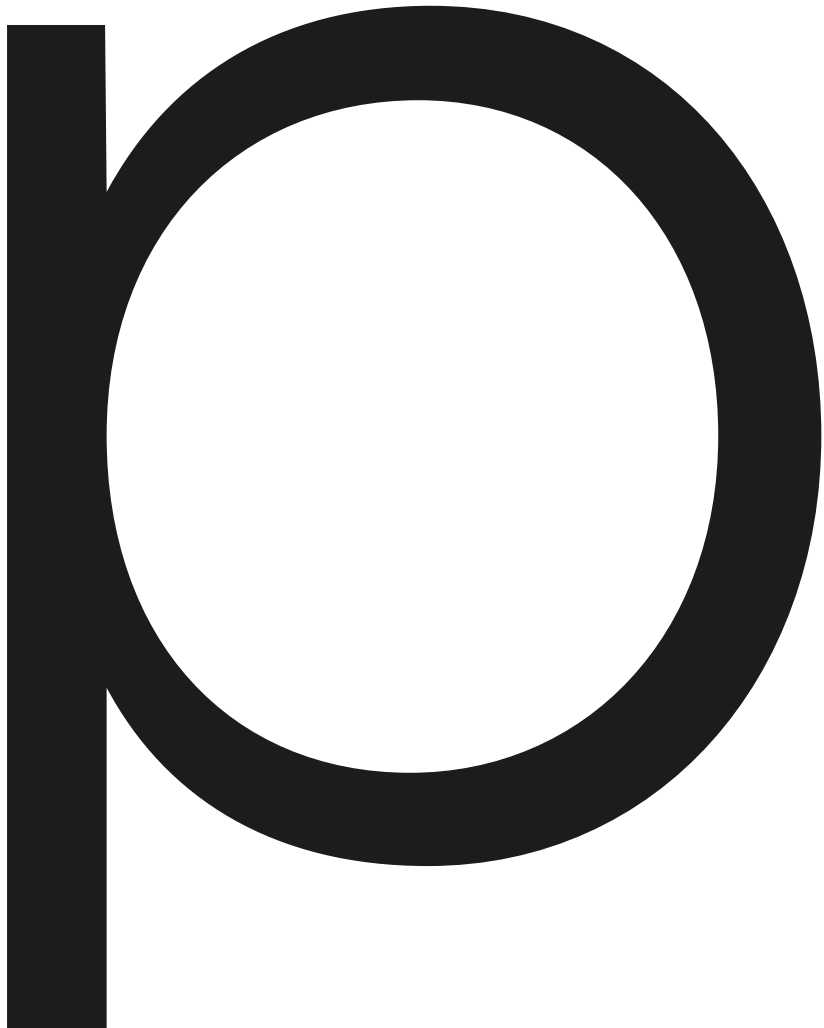

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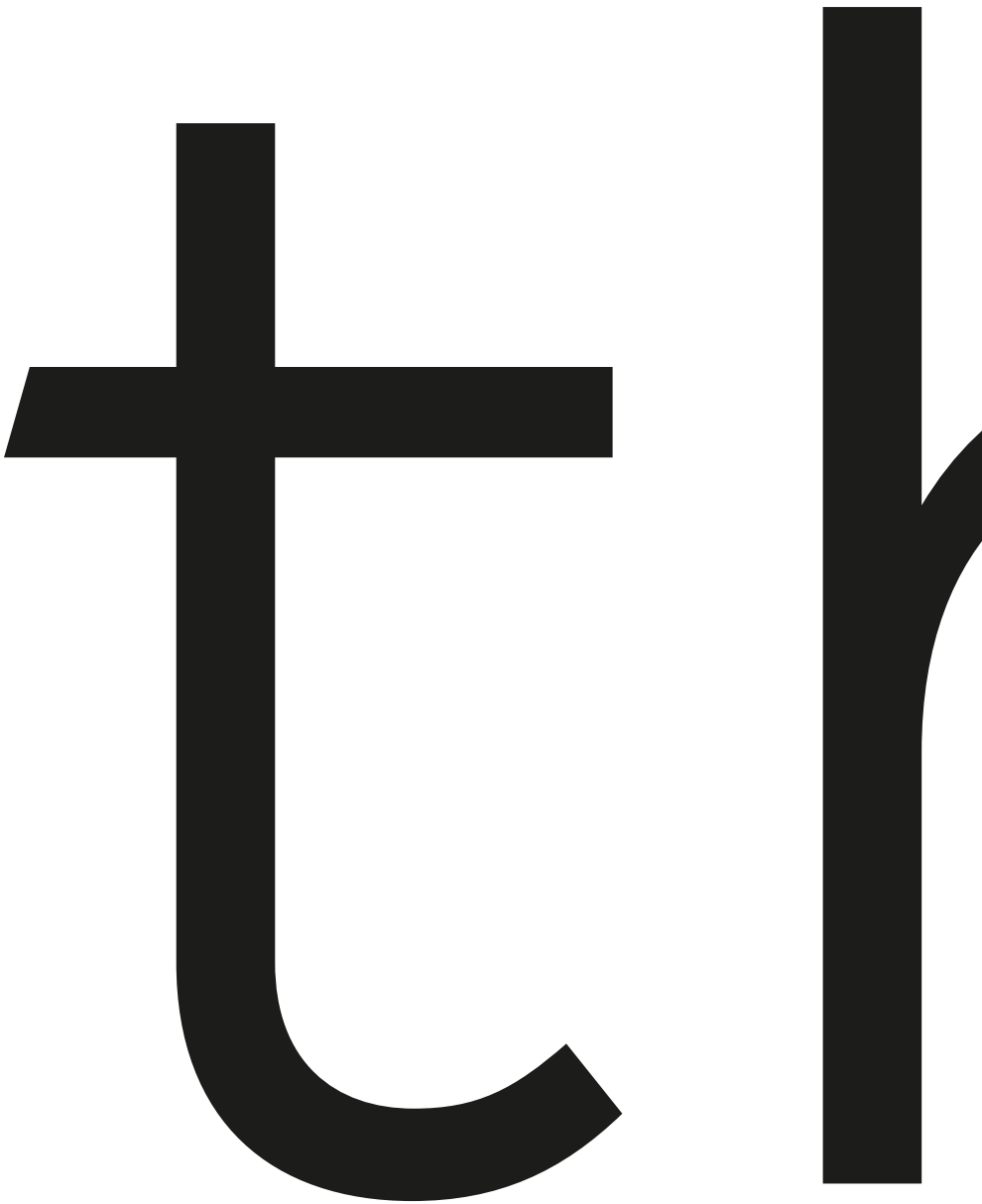

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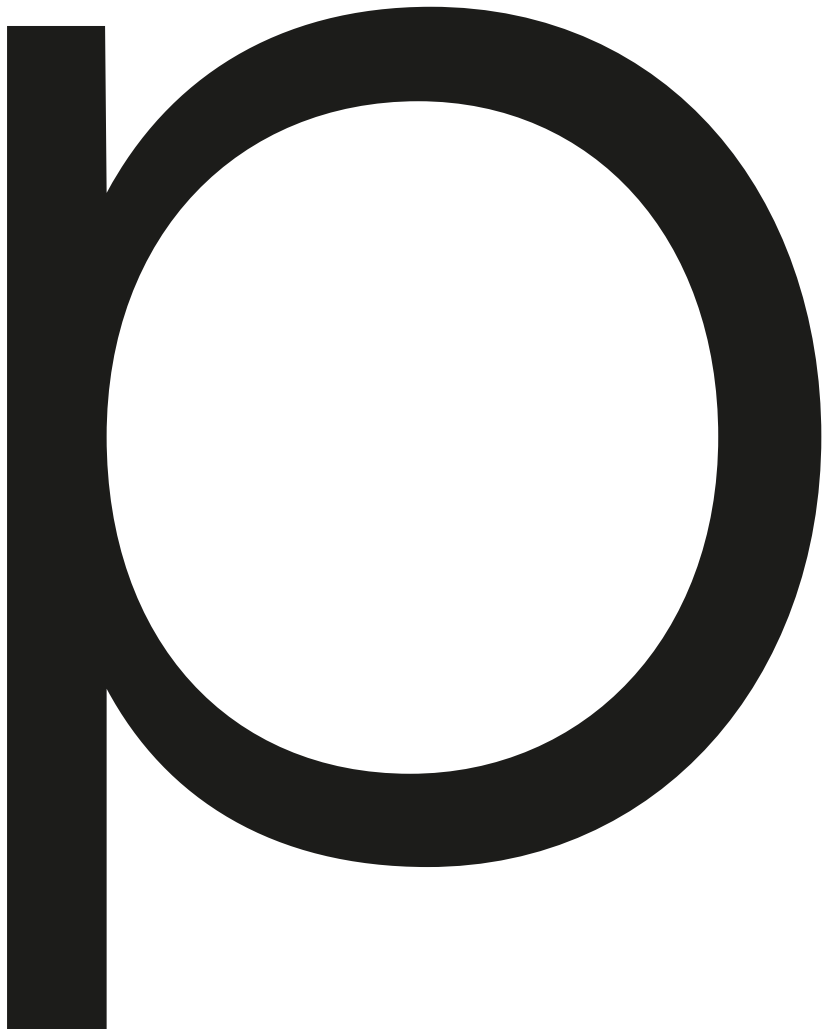

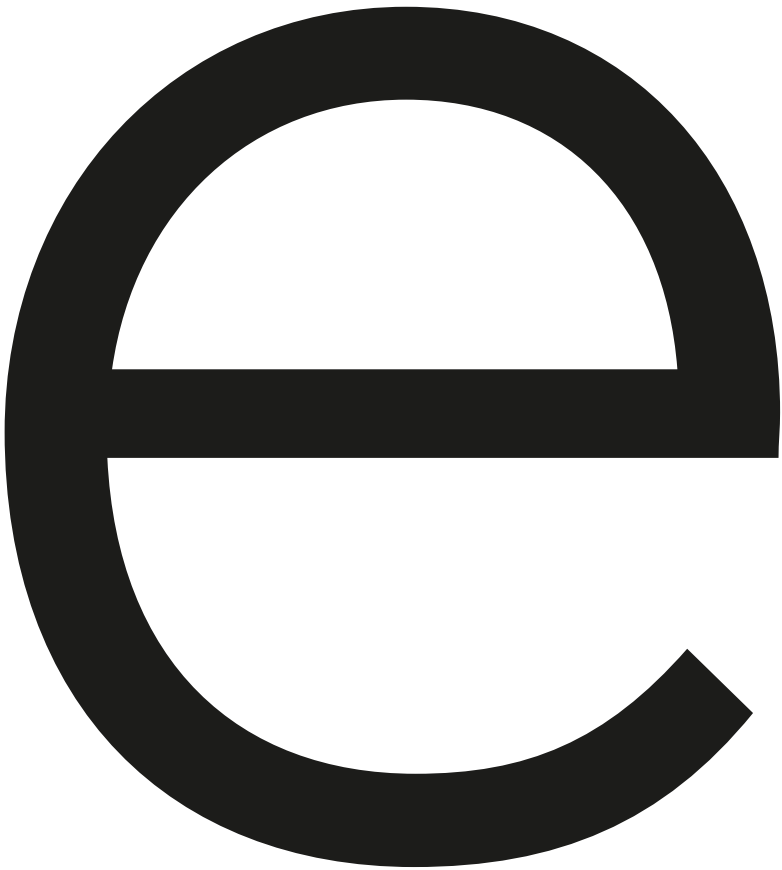

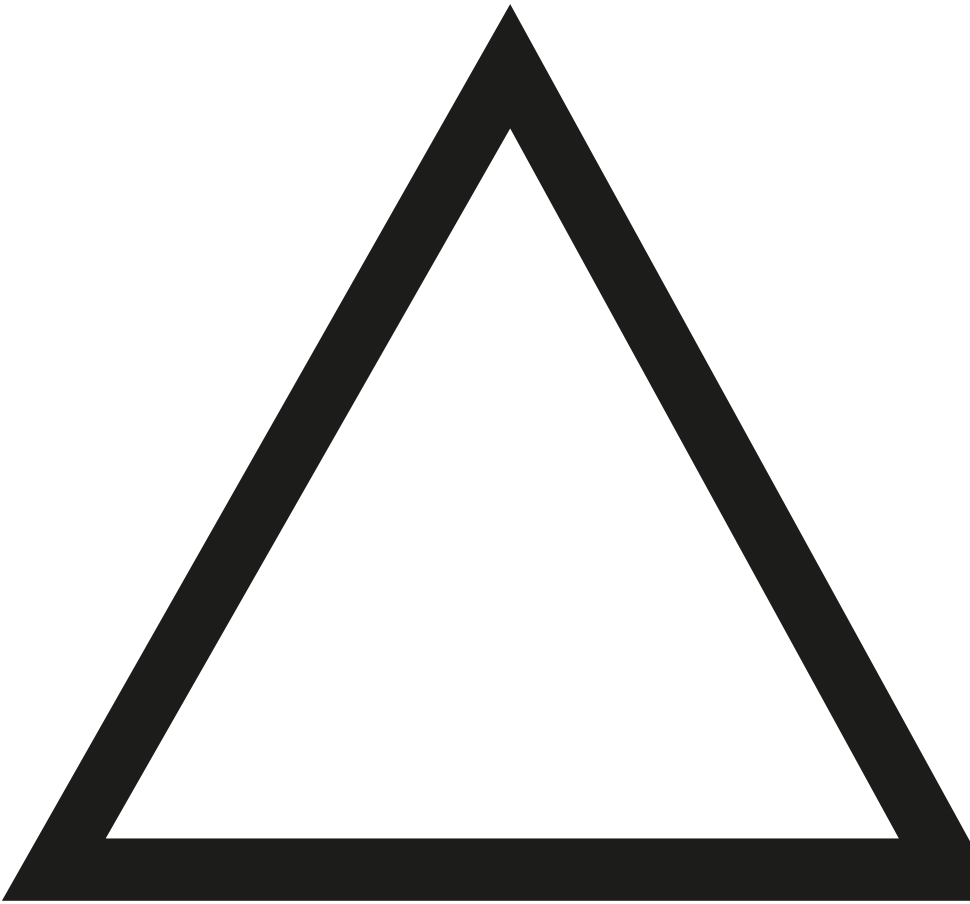

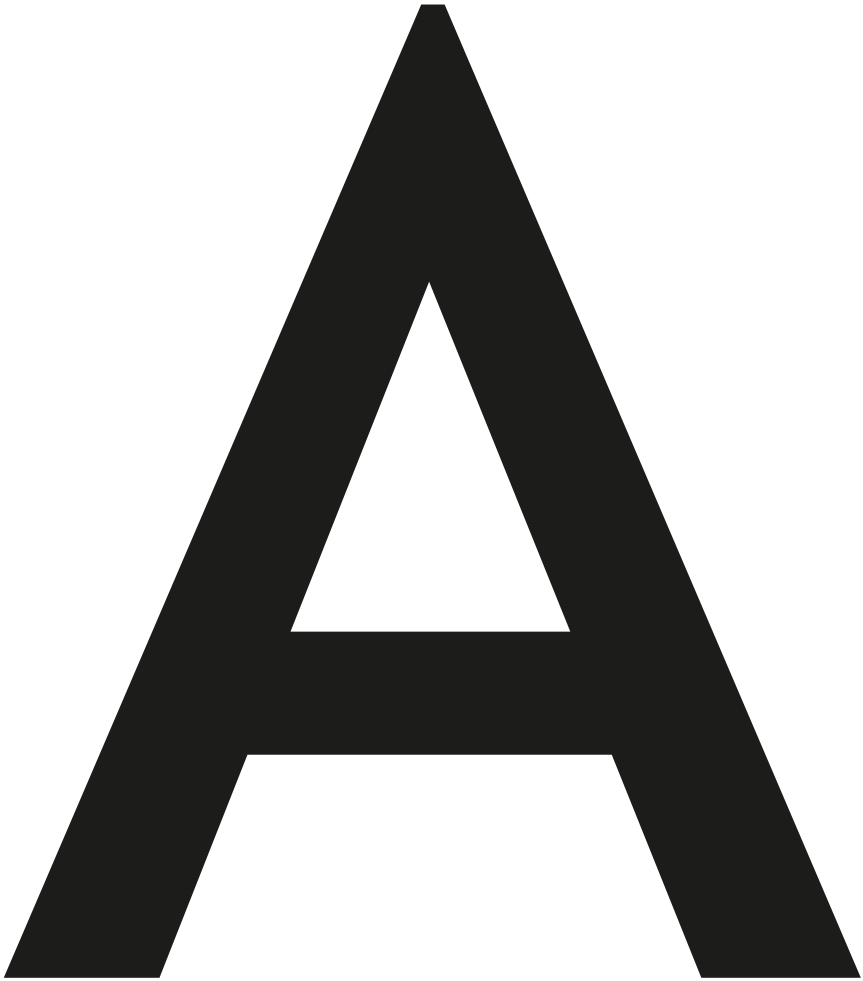

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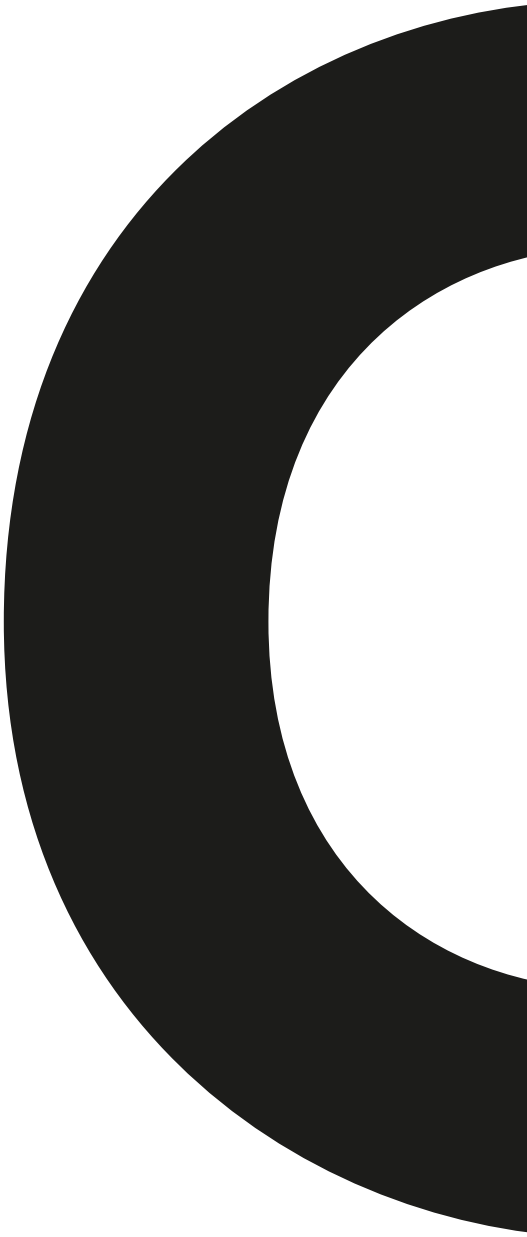

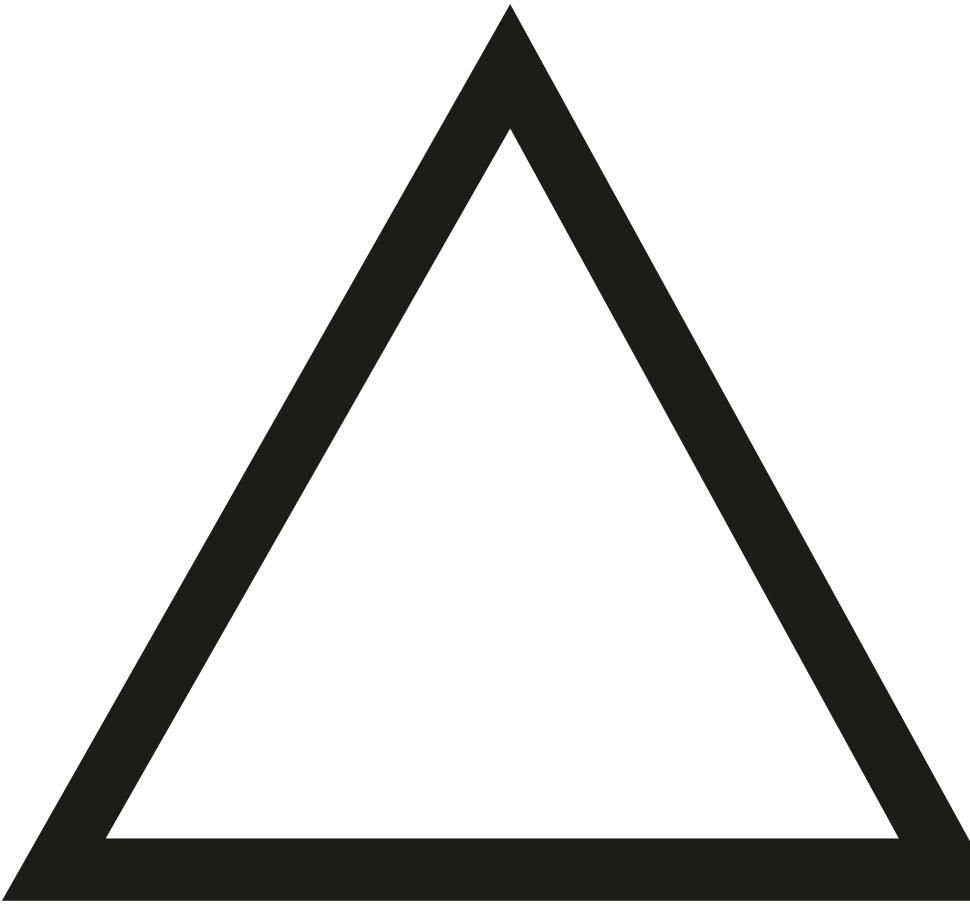

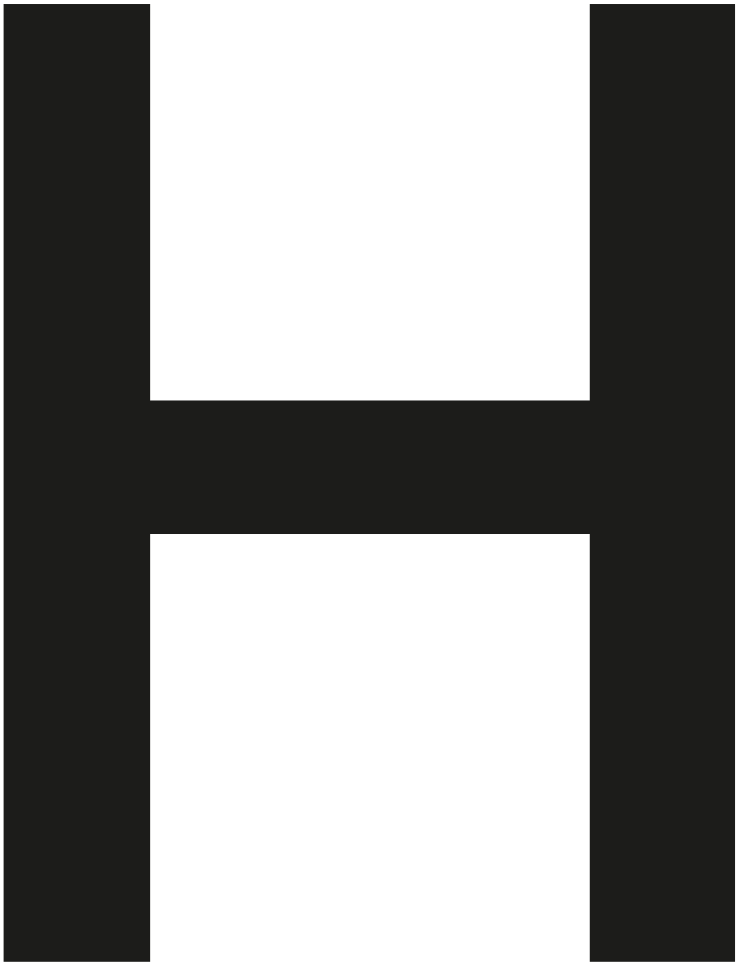

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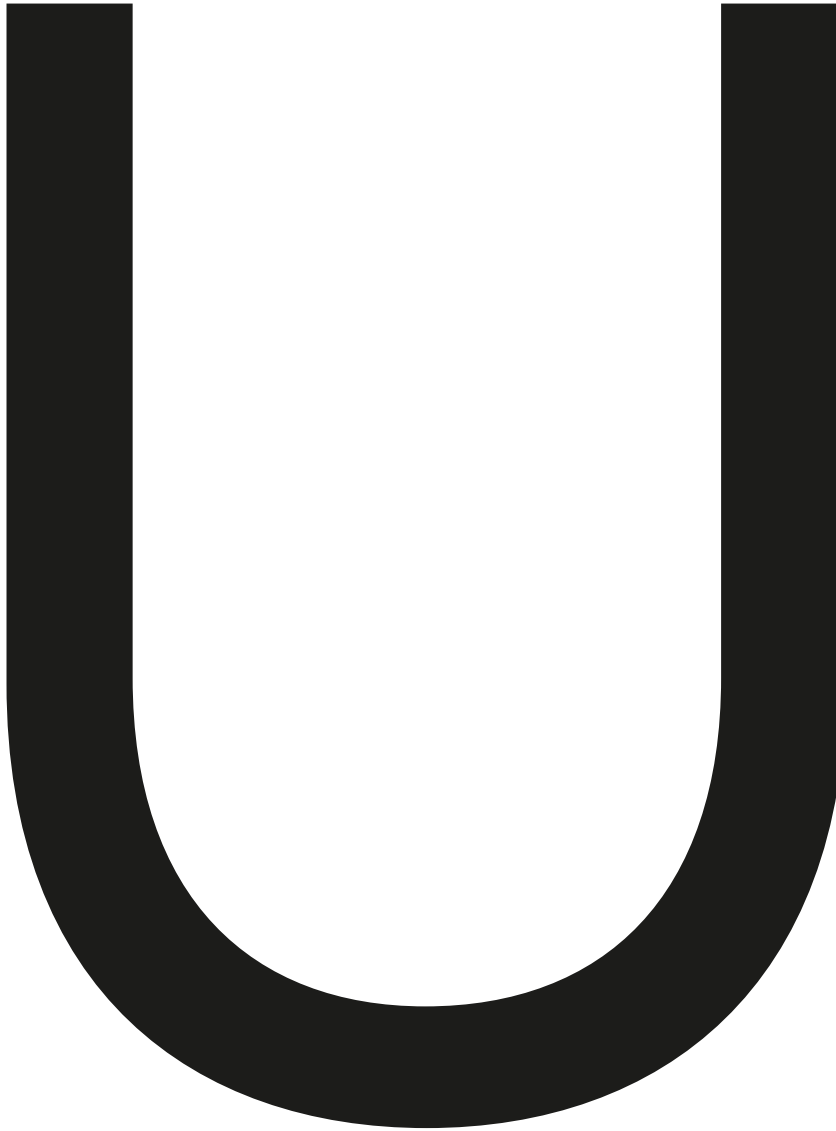

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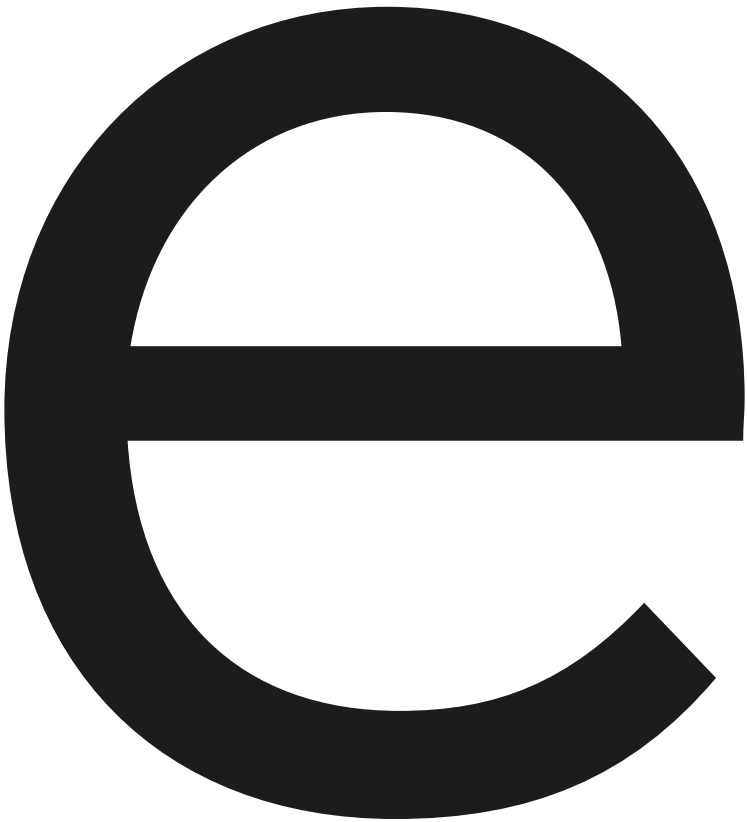
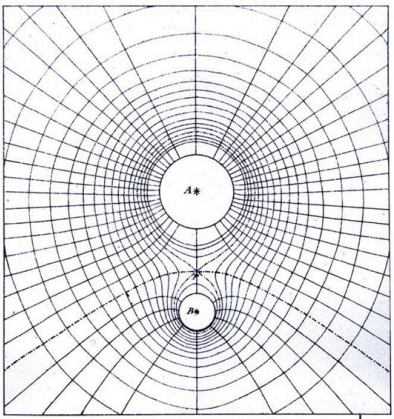
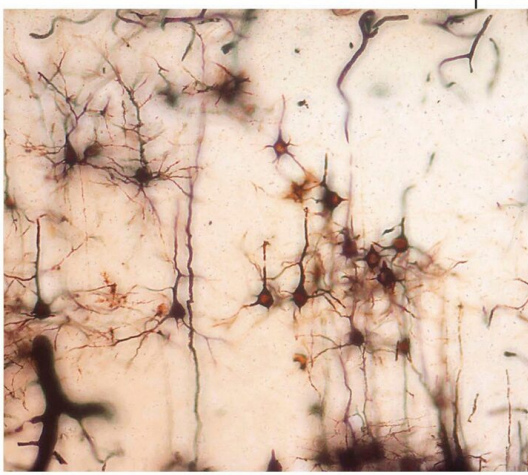




PROF DR JD VAN DER WAALS AETATIS LXXIII



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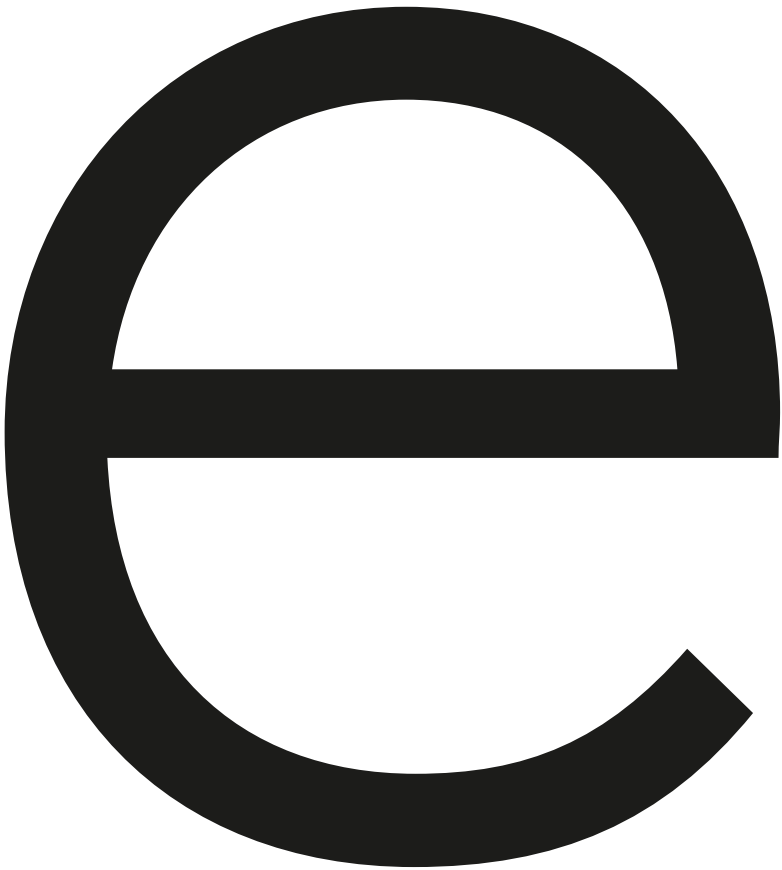

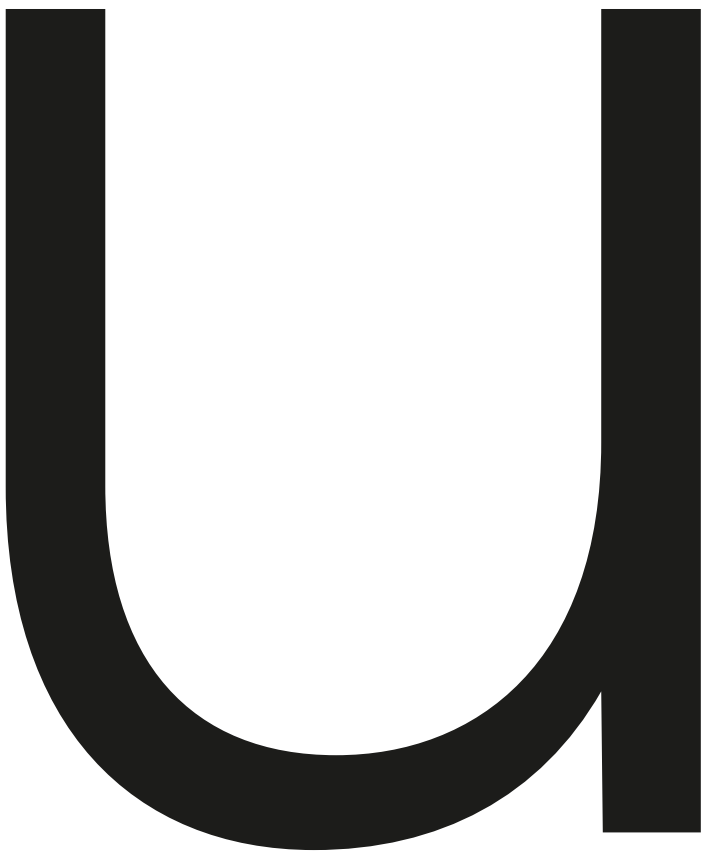

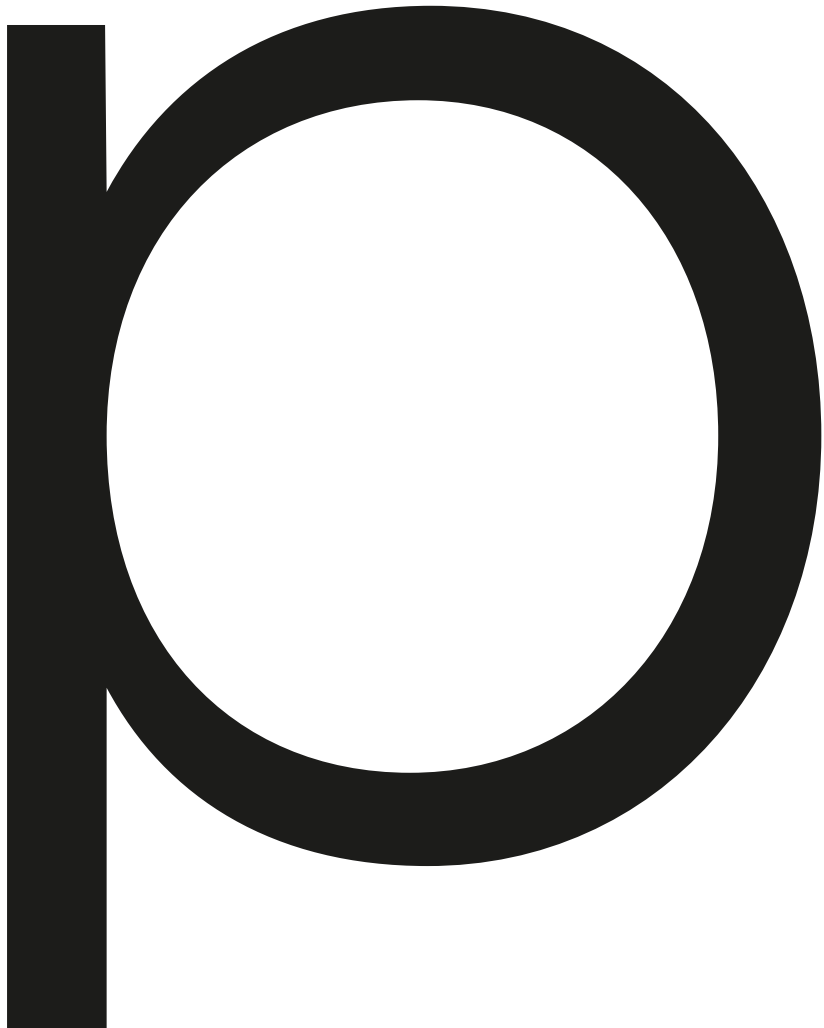

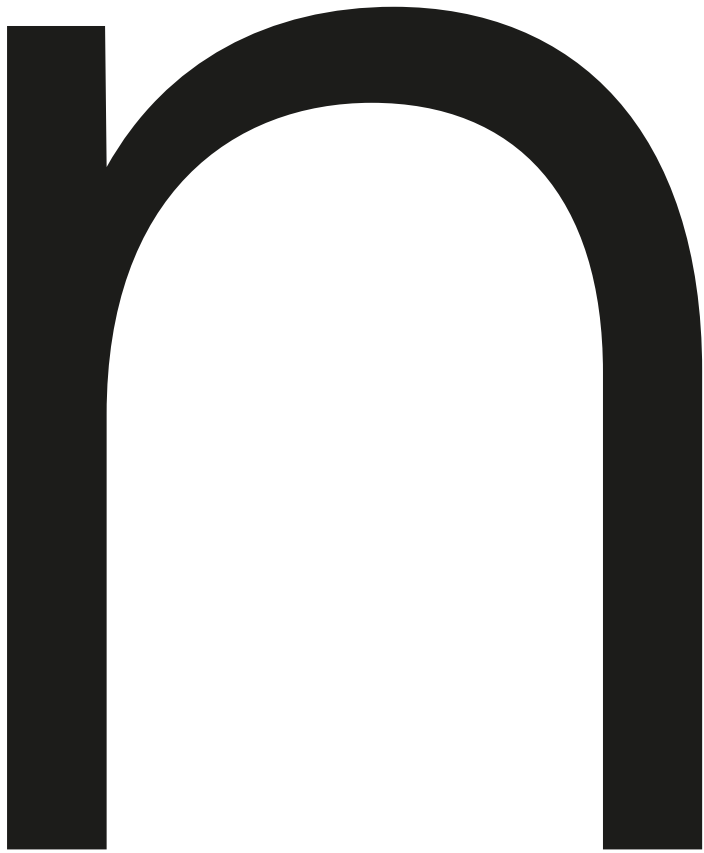

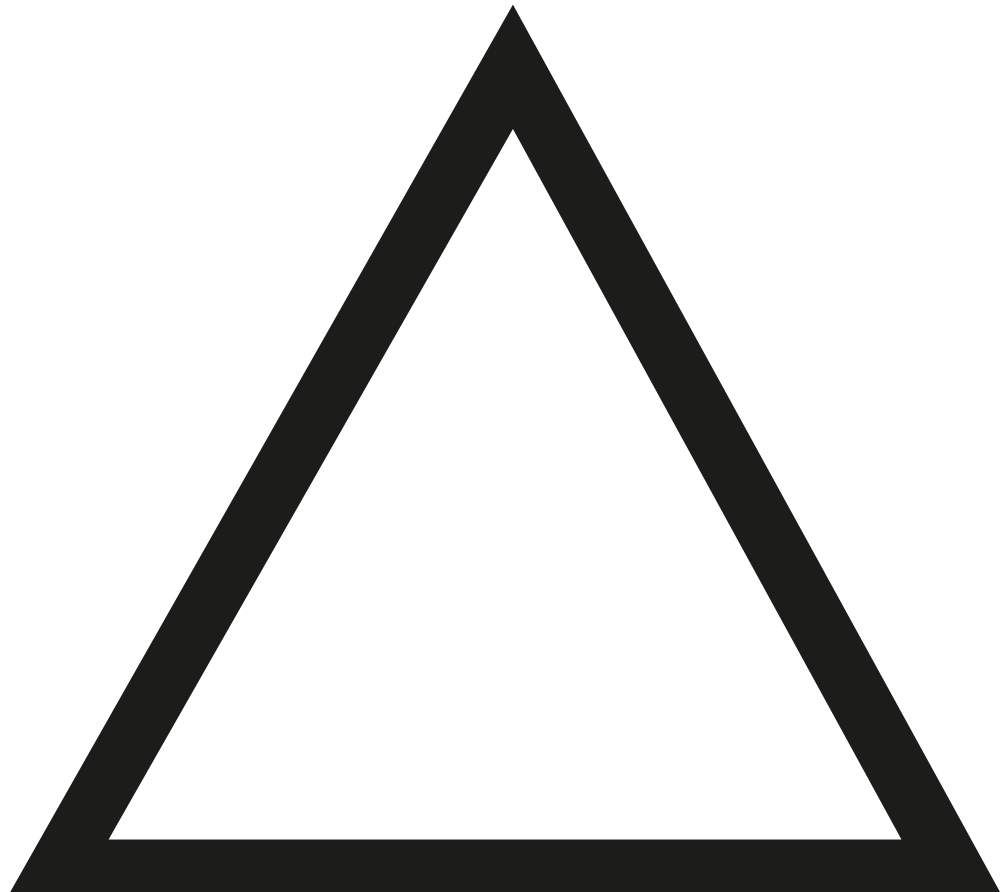

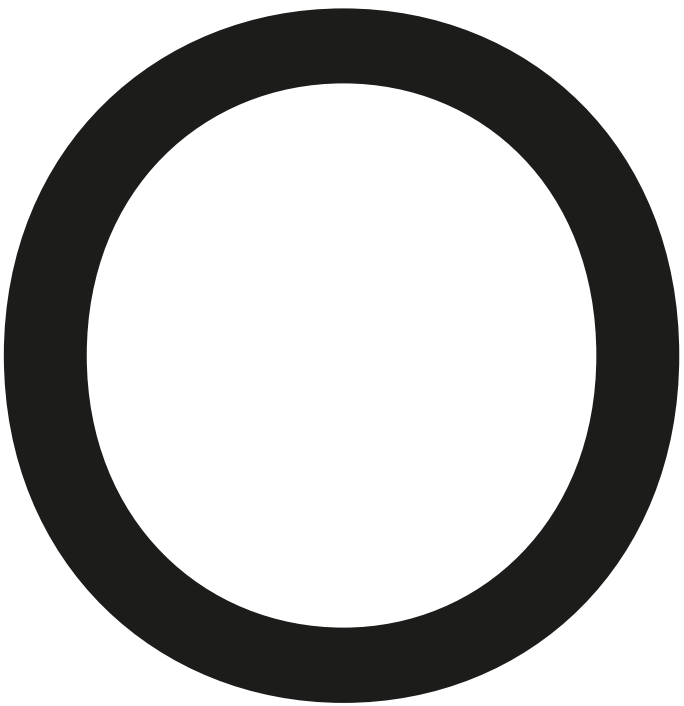

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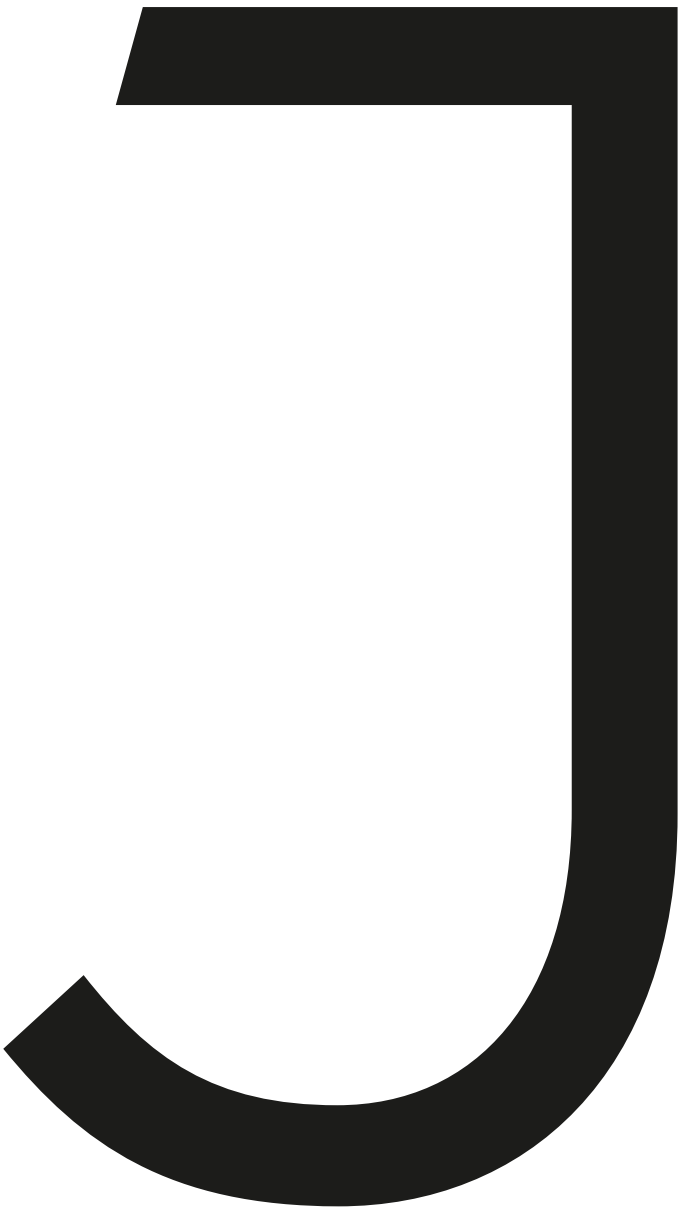

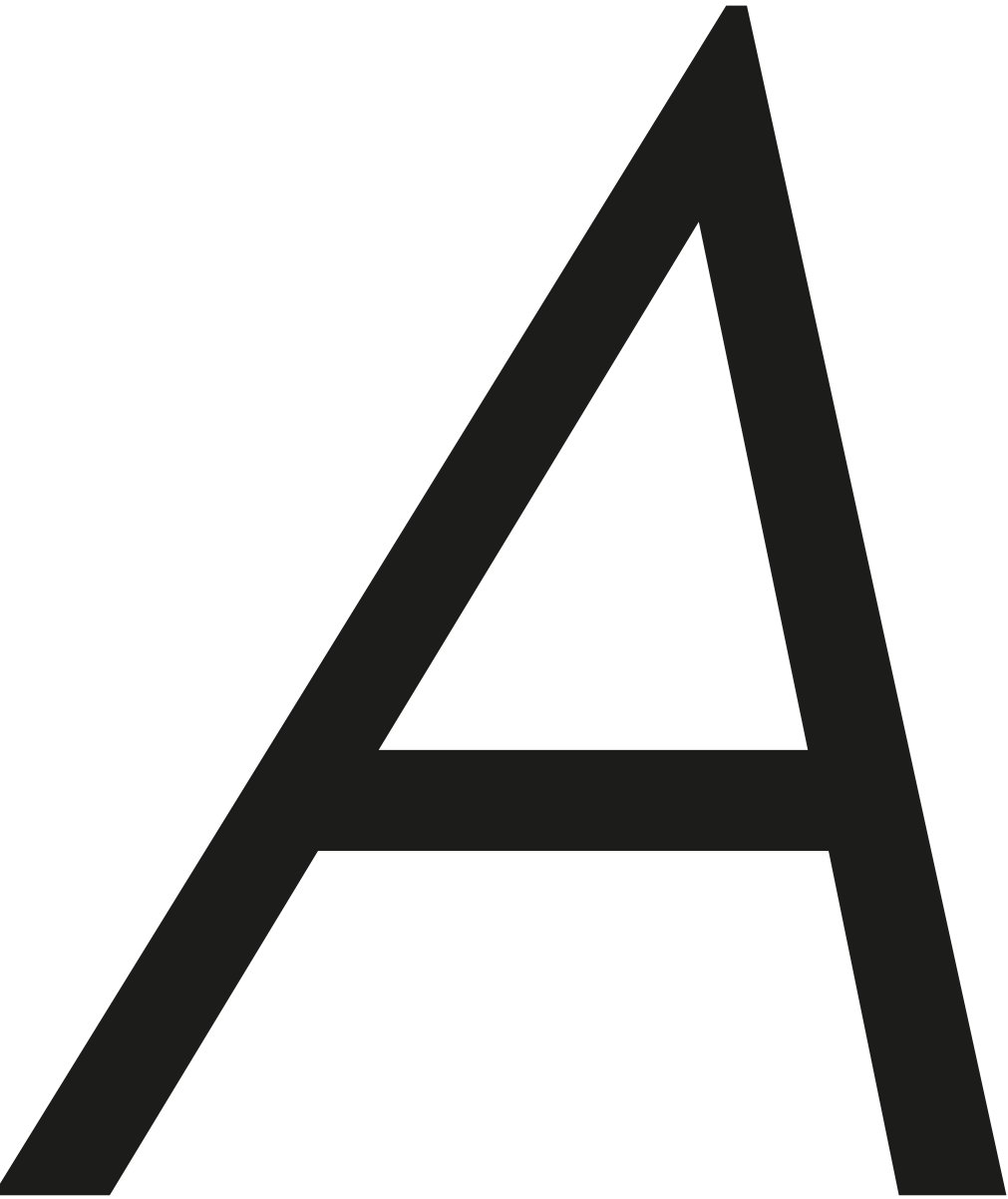

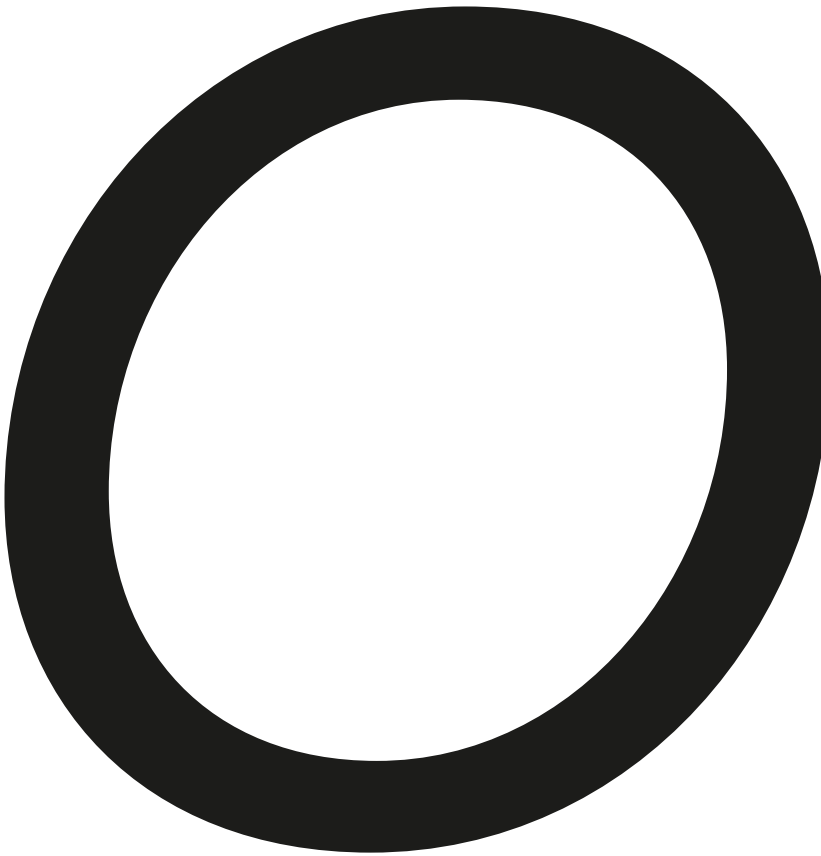

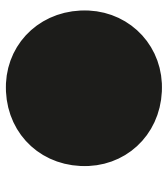

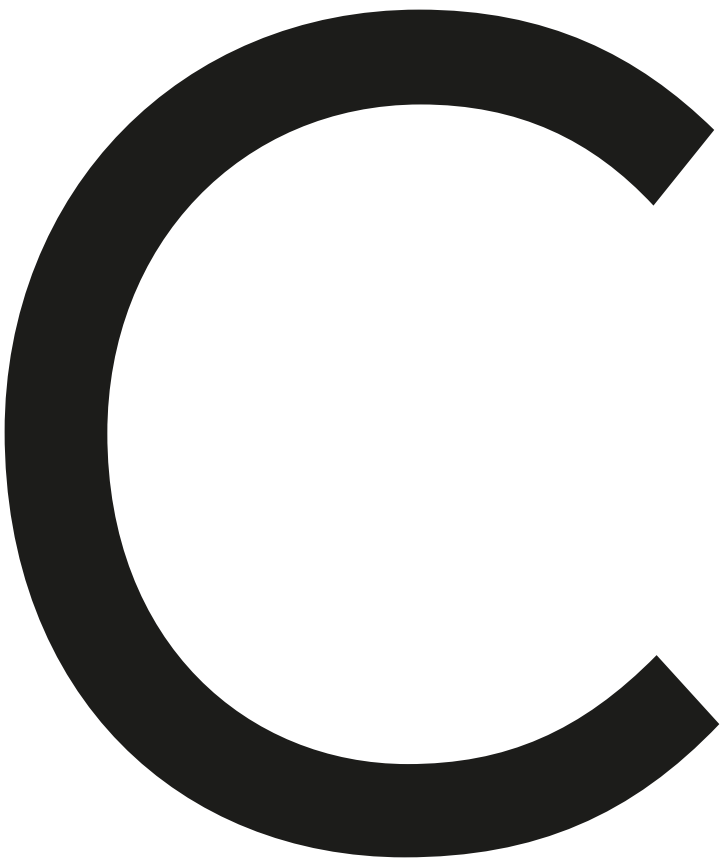

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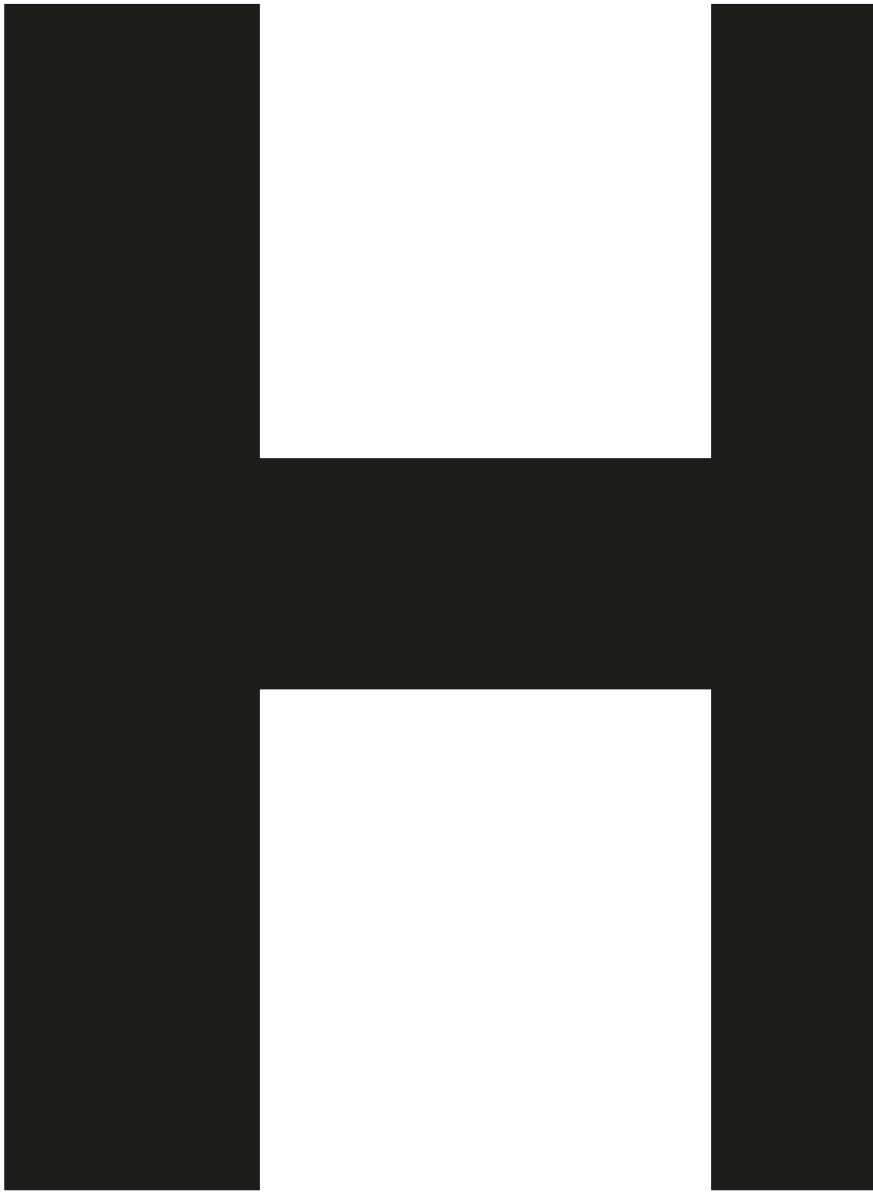

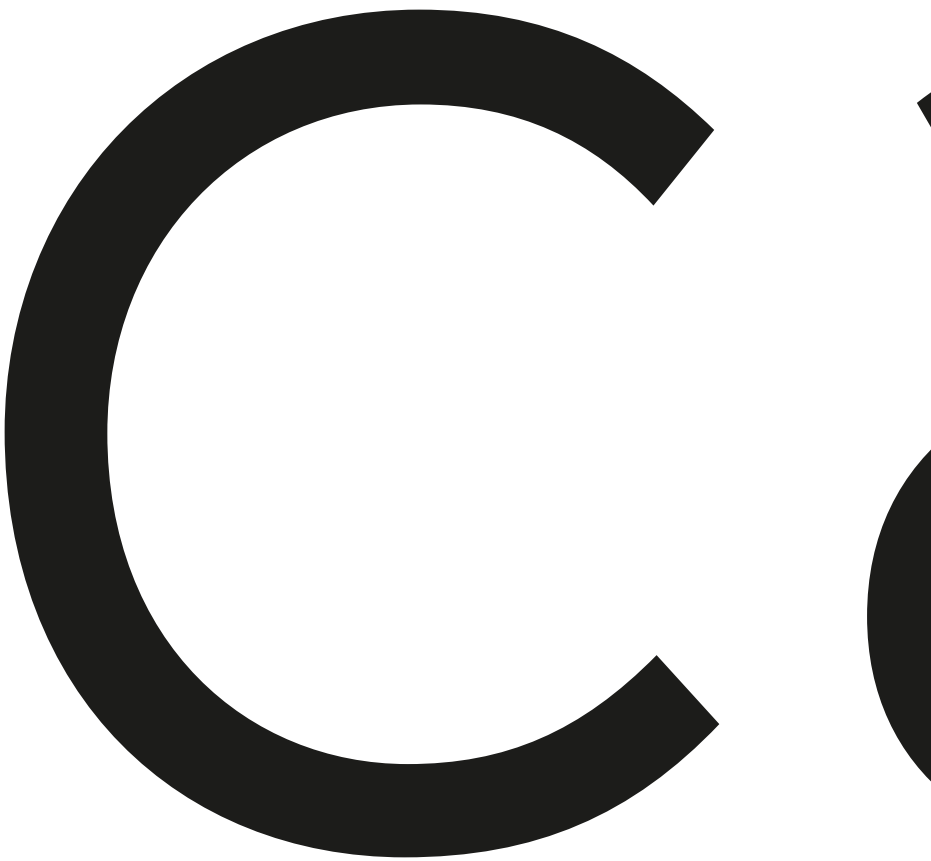

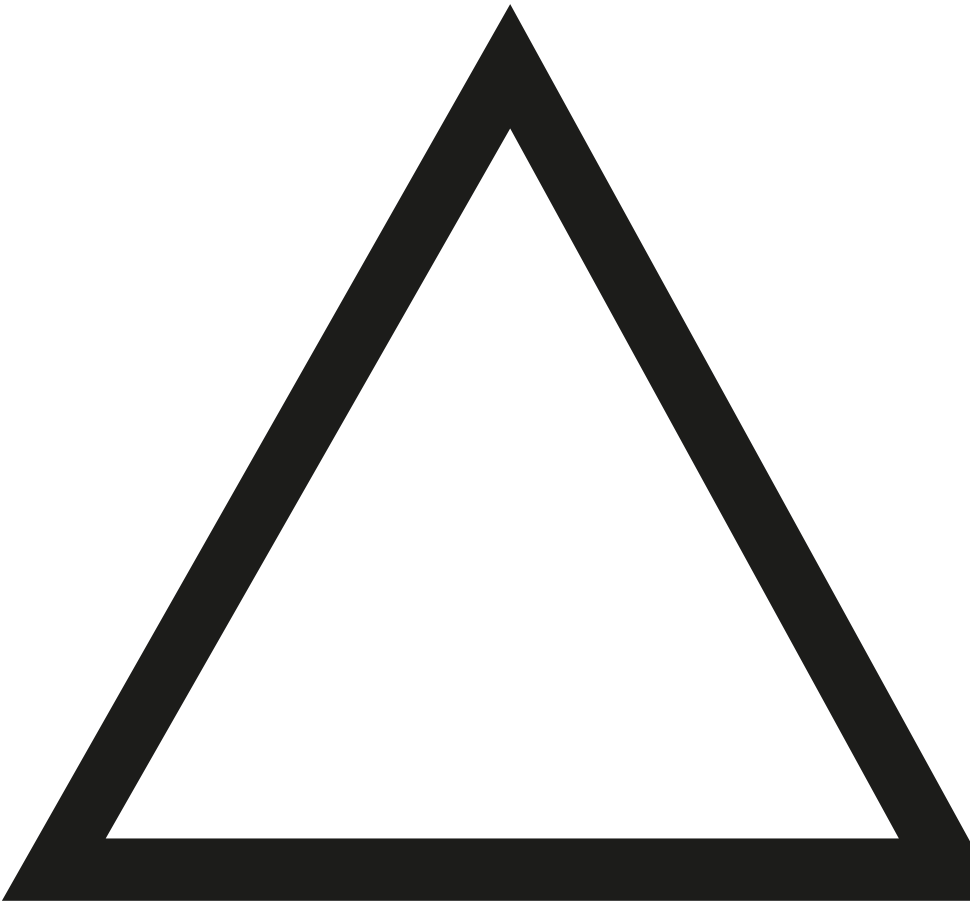

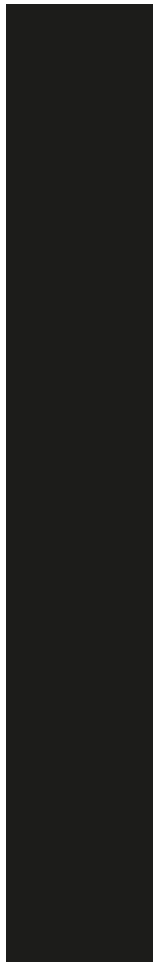
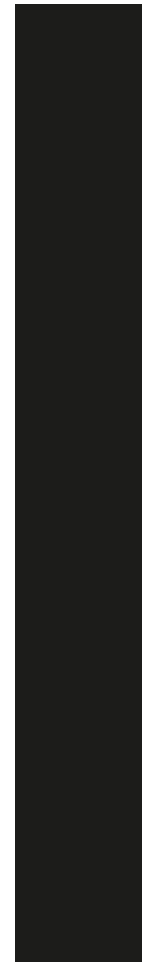

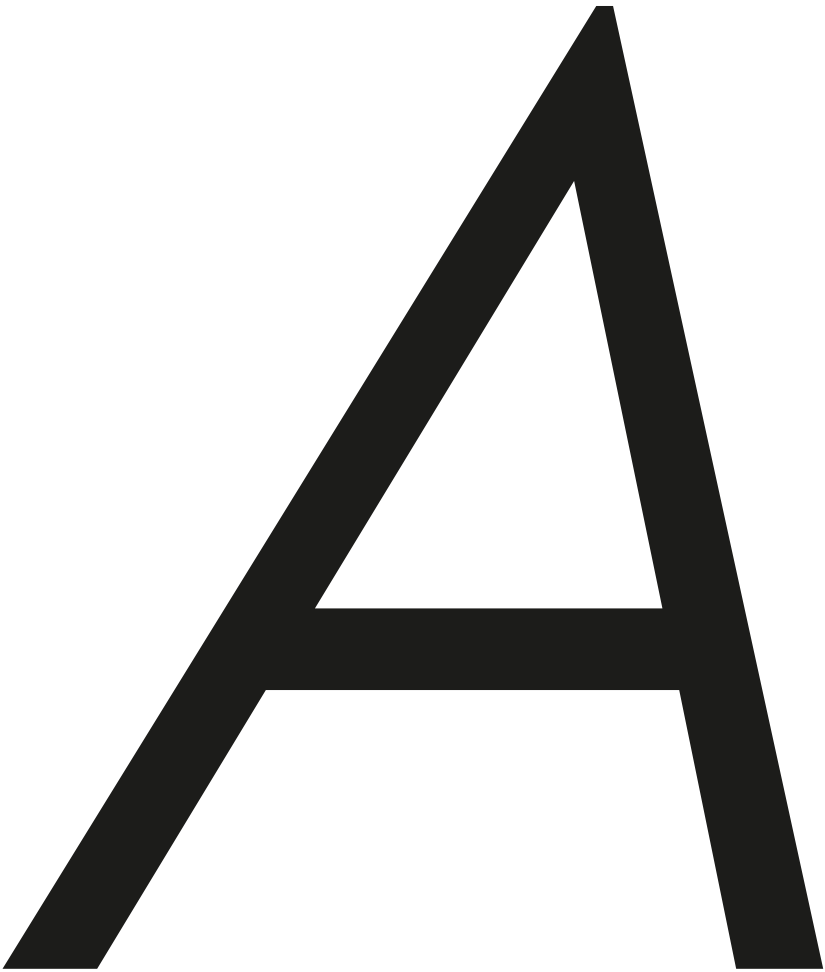

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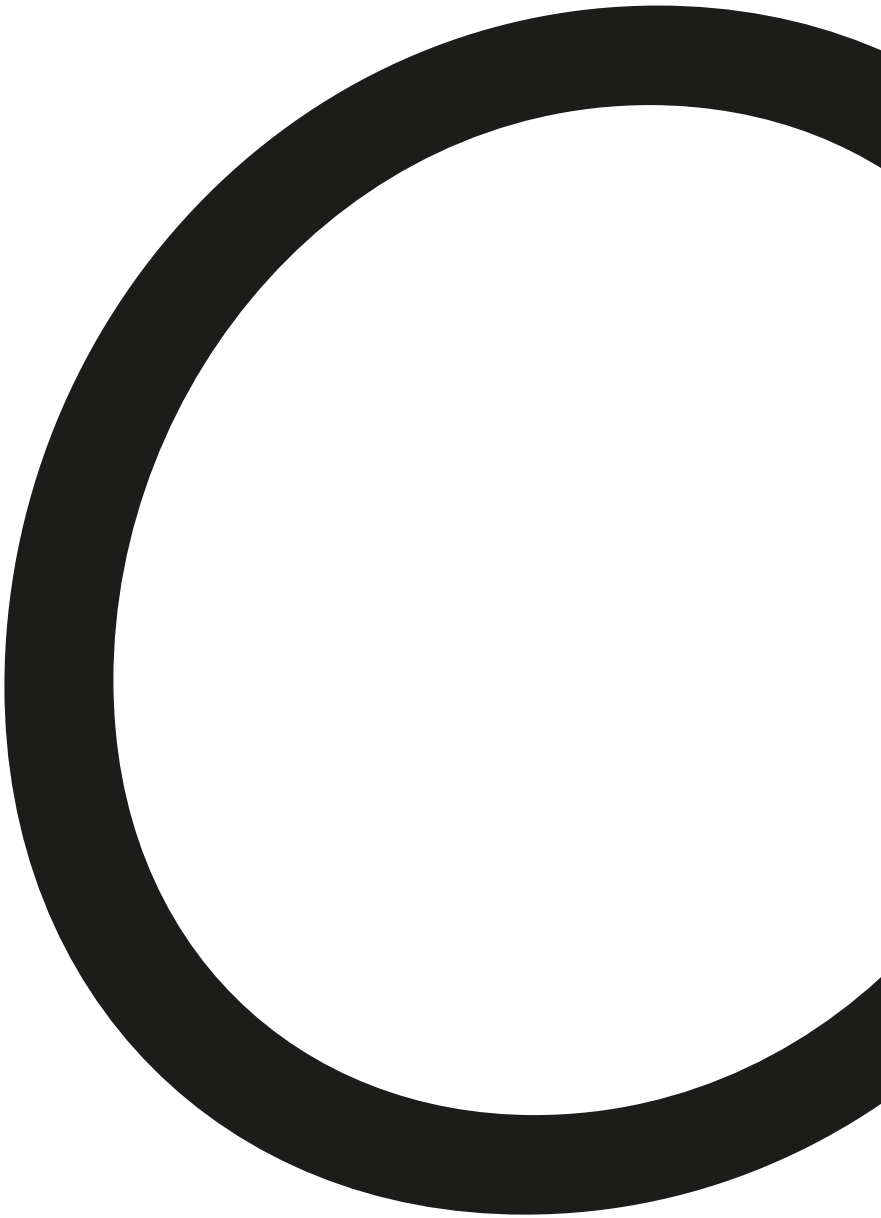

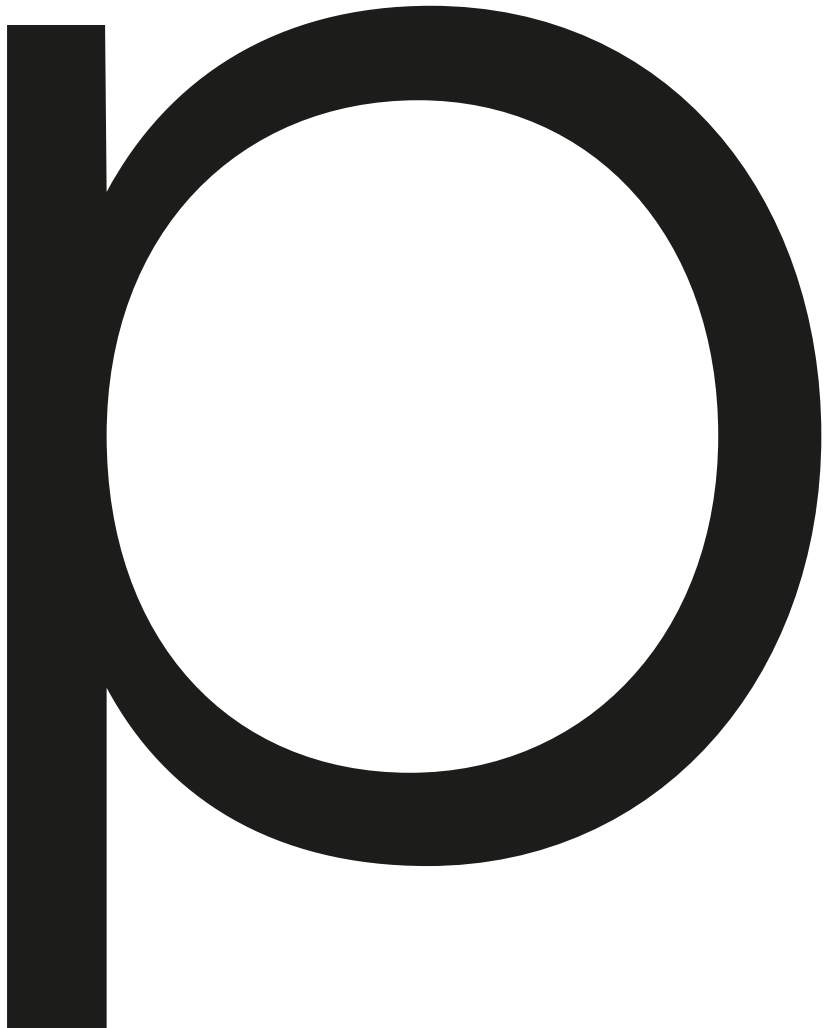

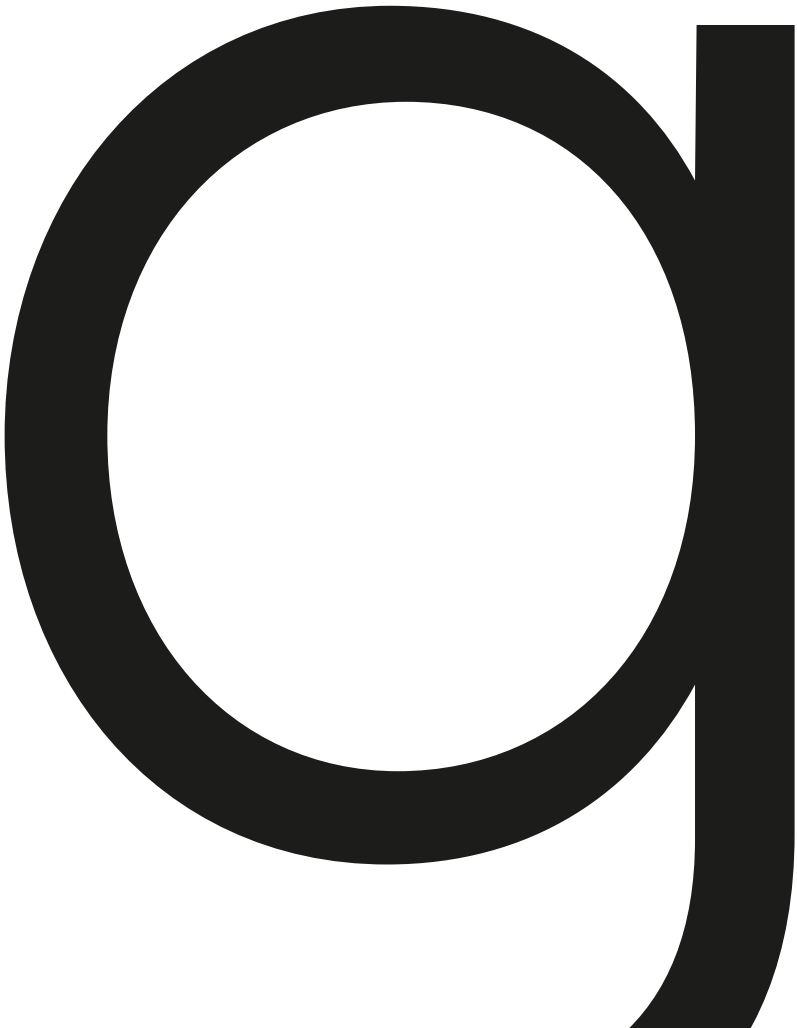

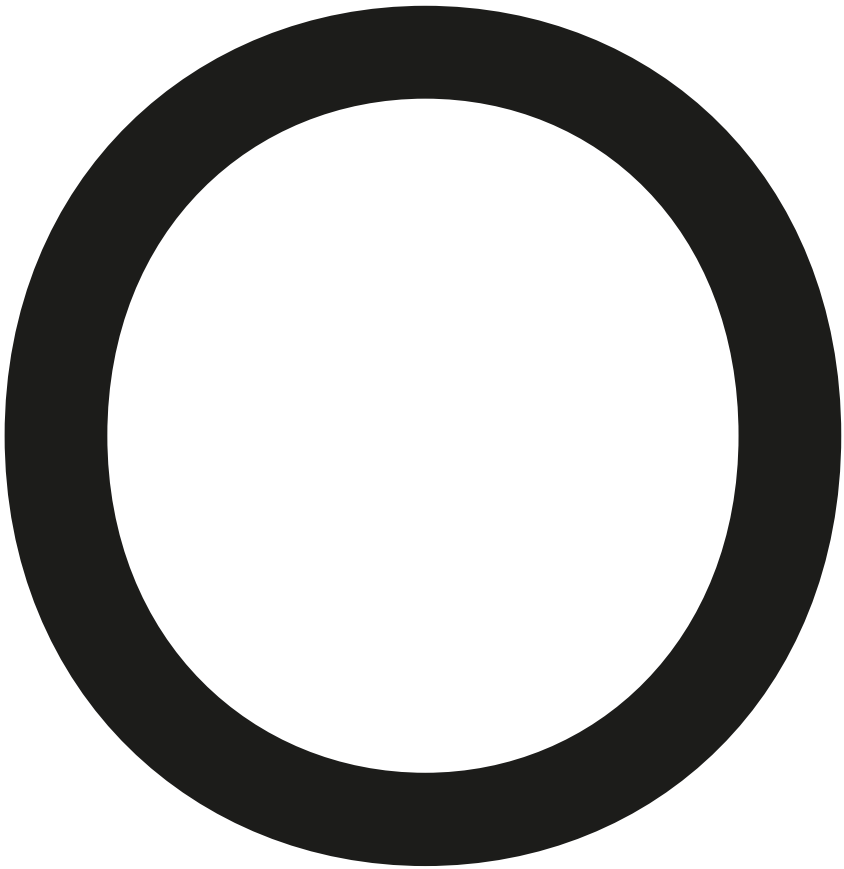

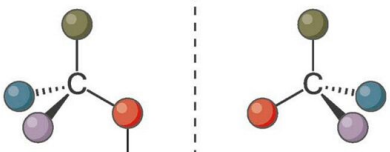
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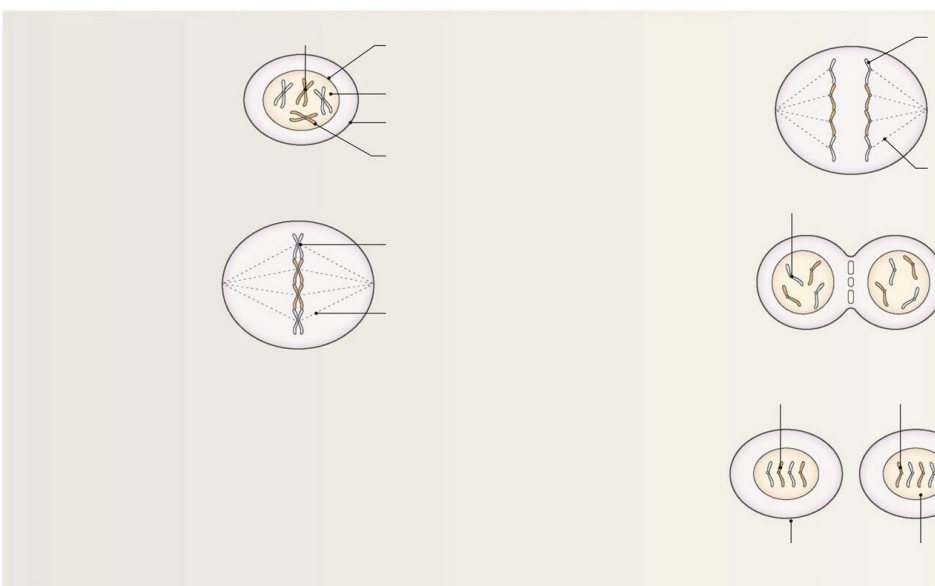

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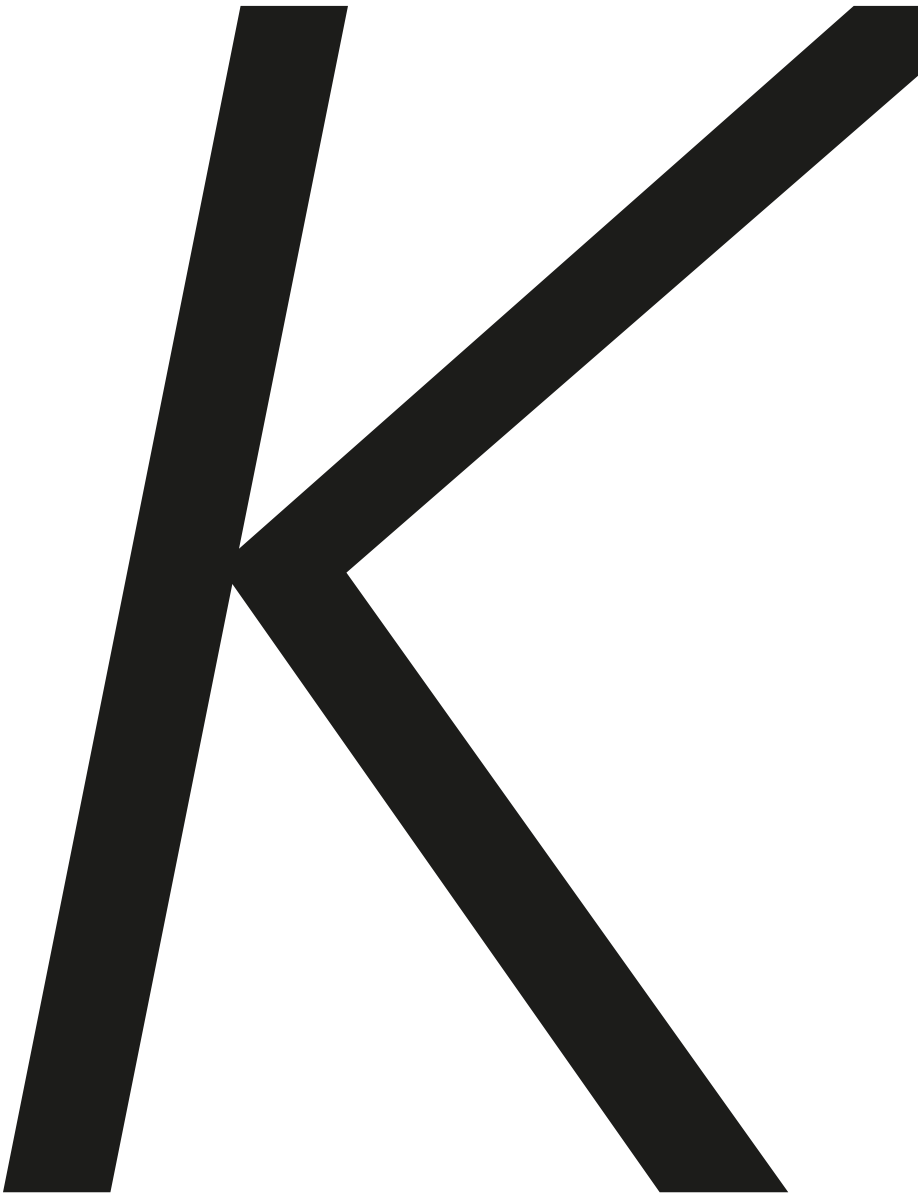

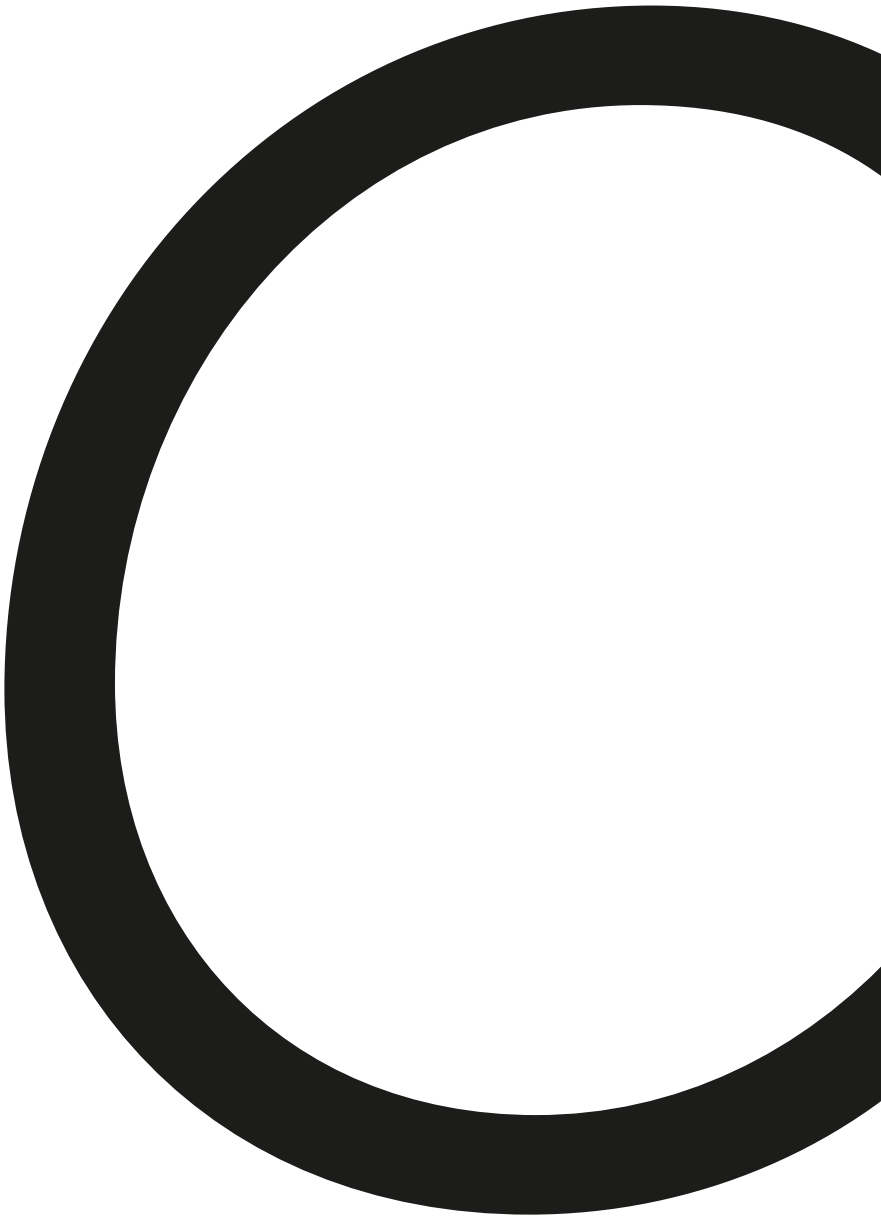

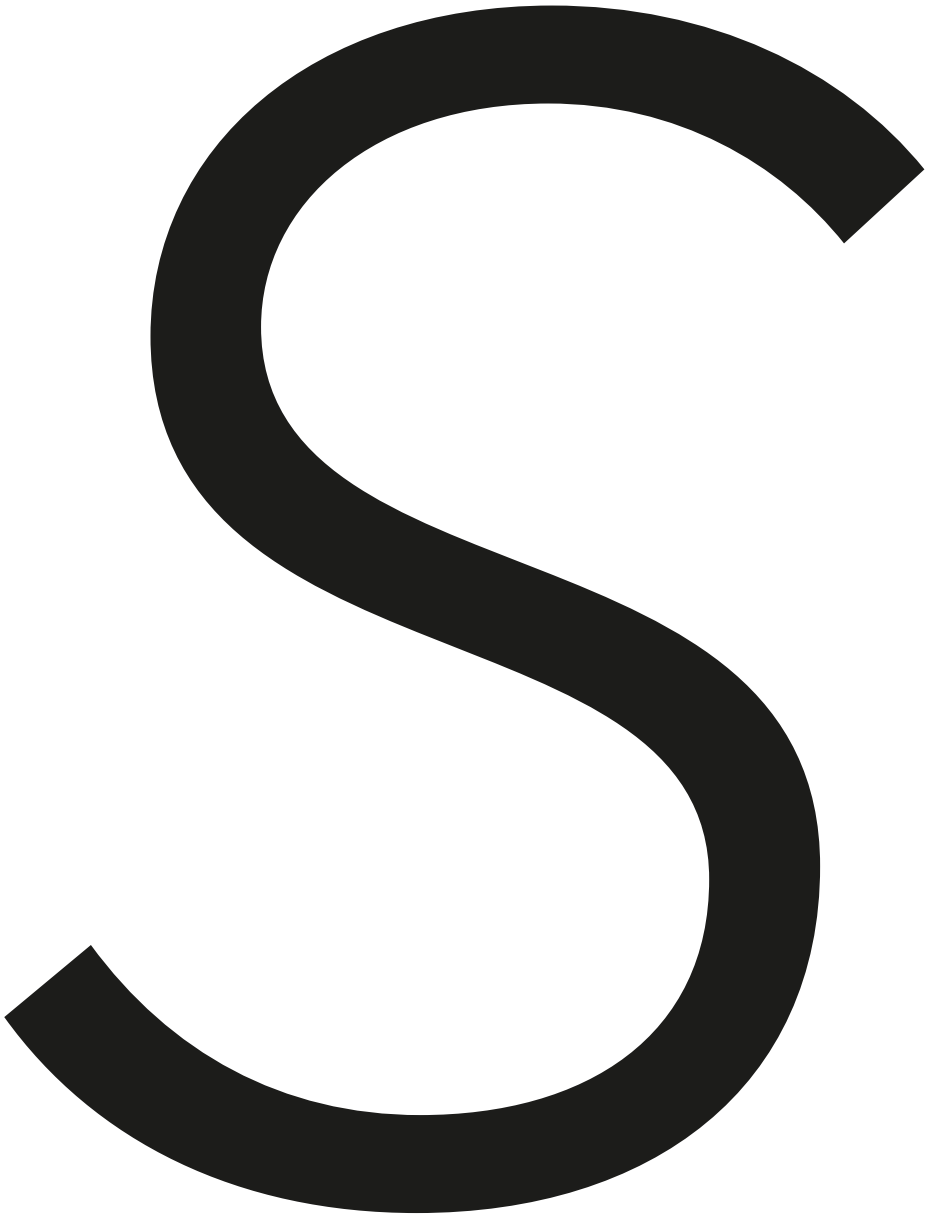

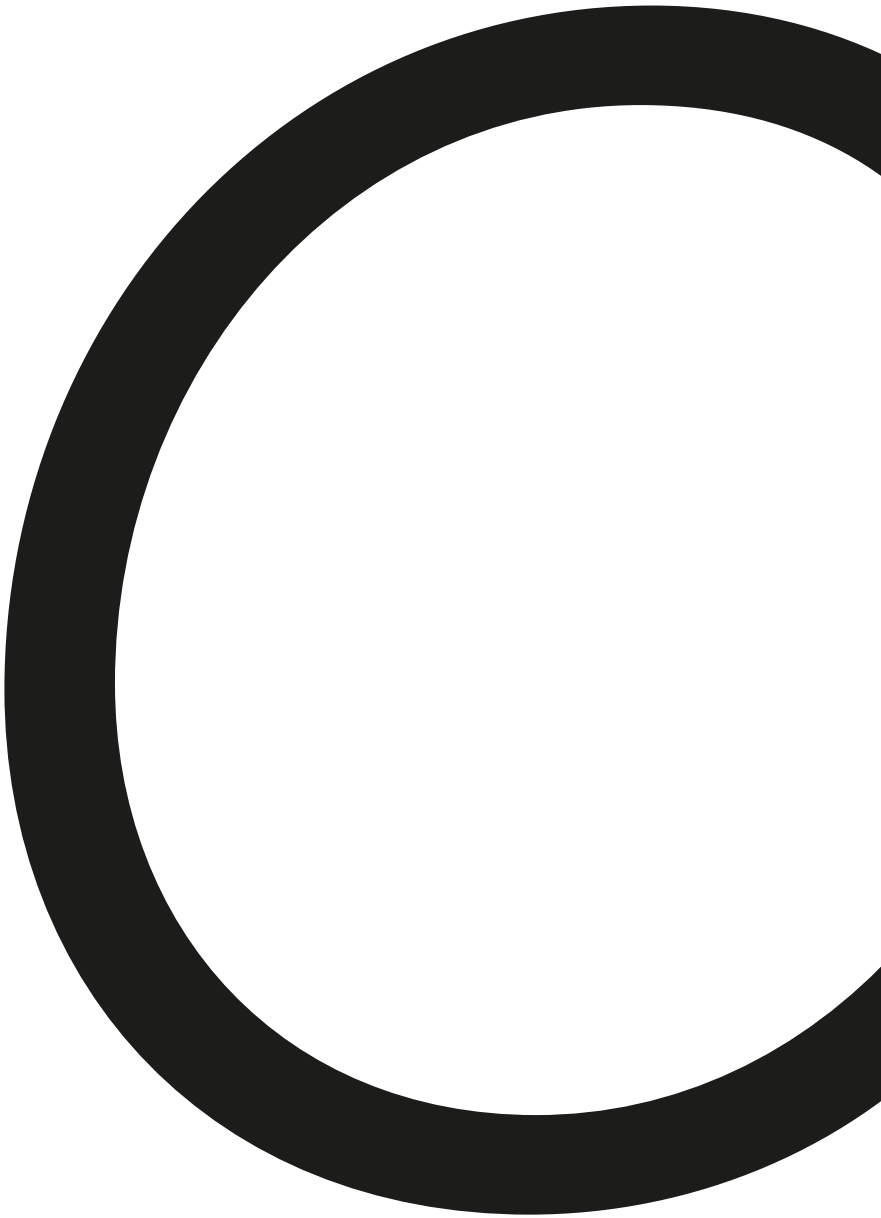

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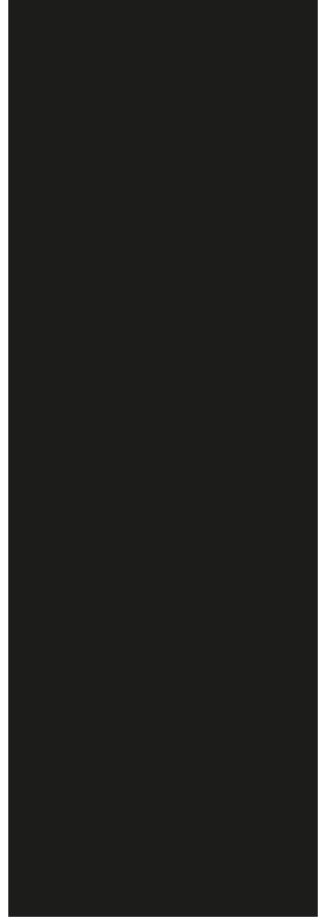

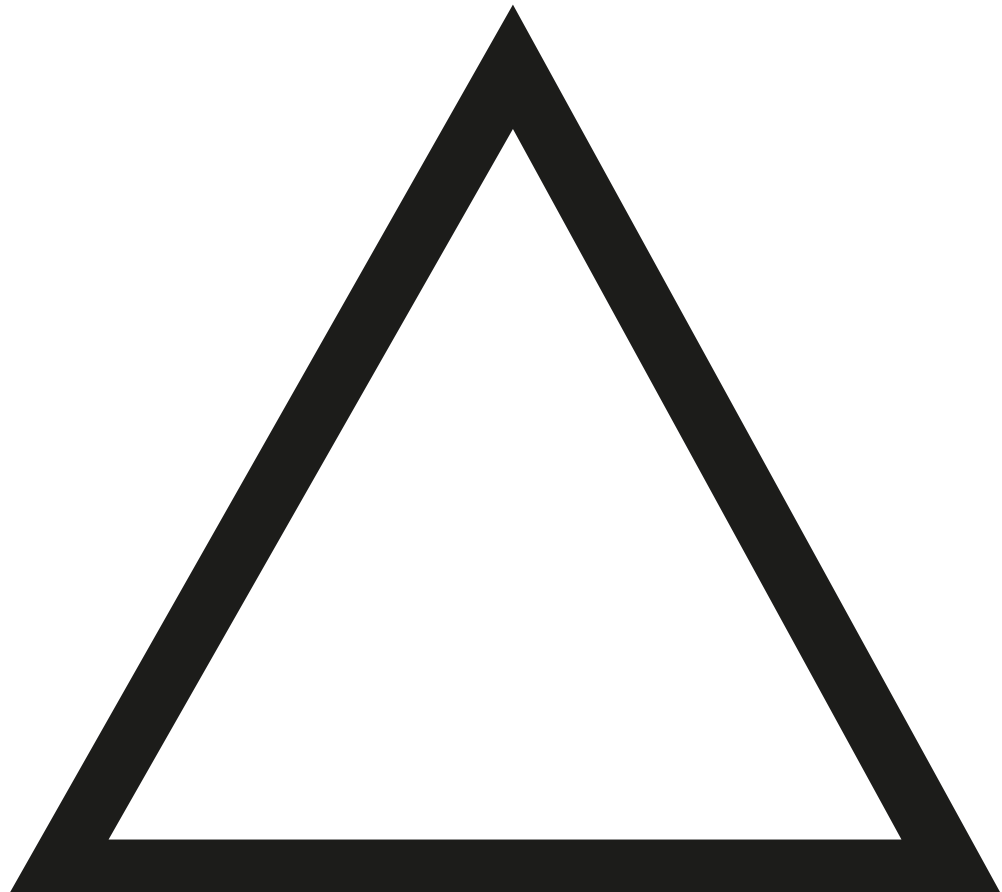

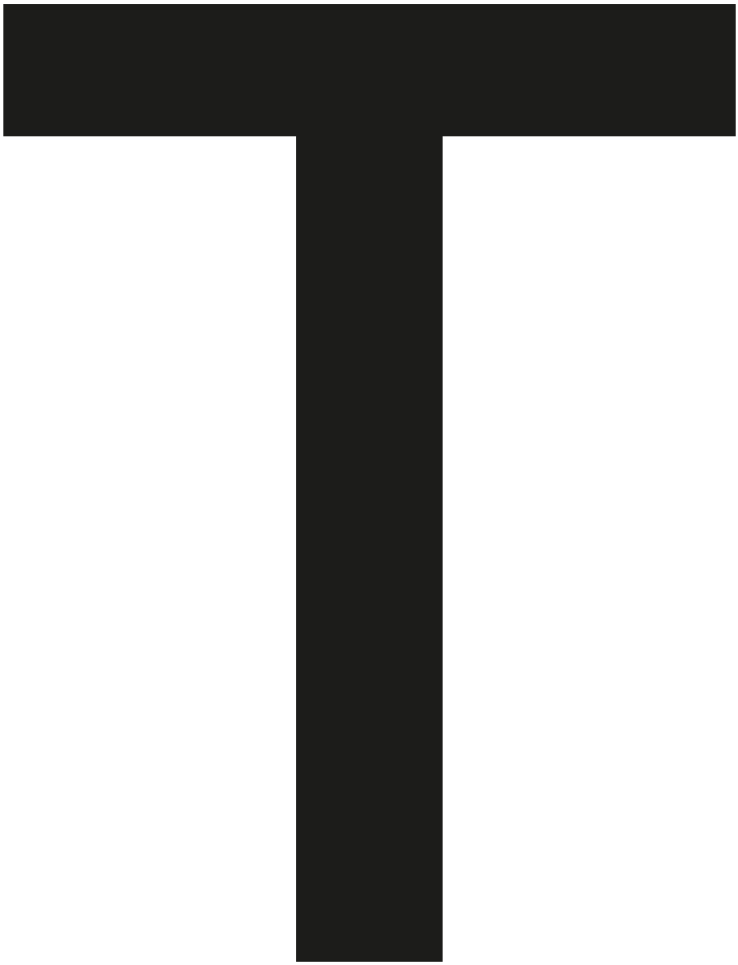

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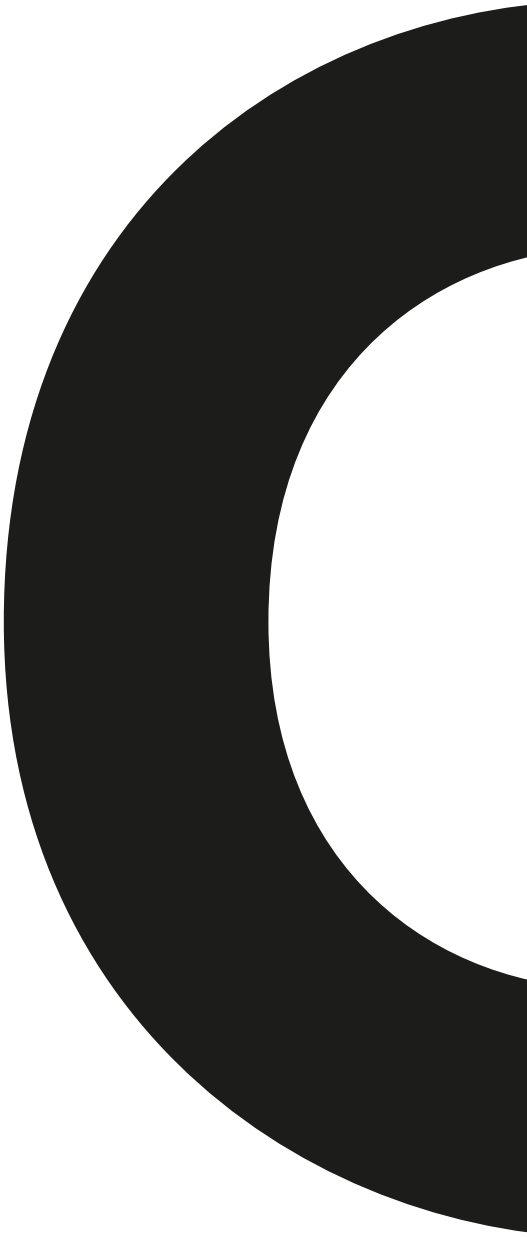

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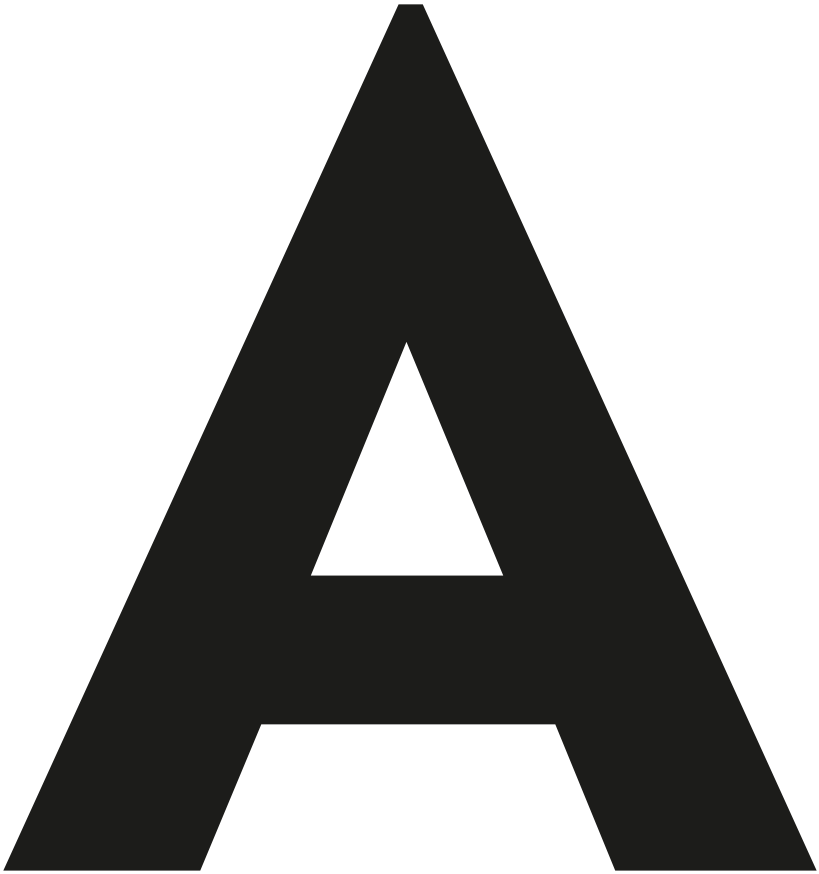

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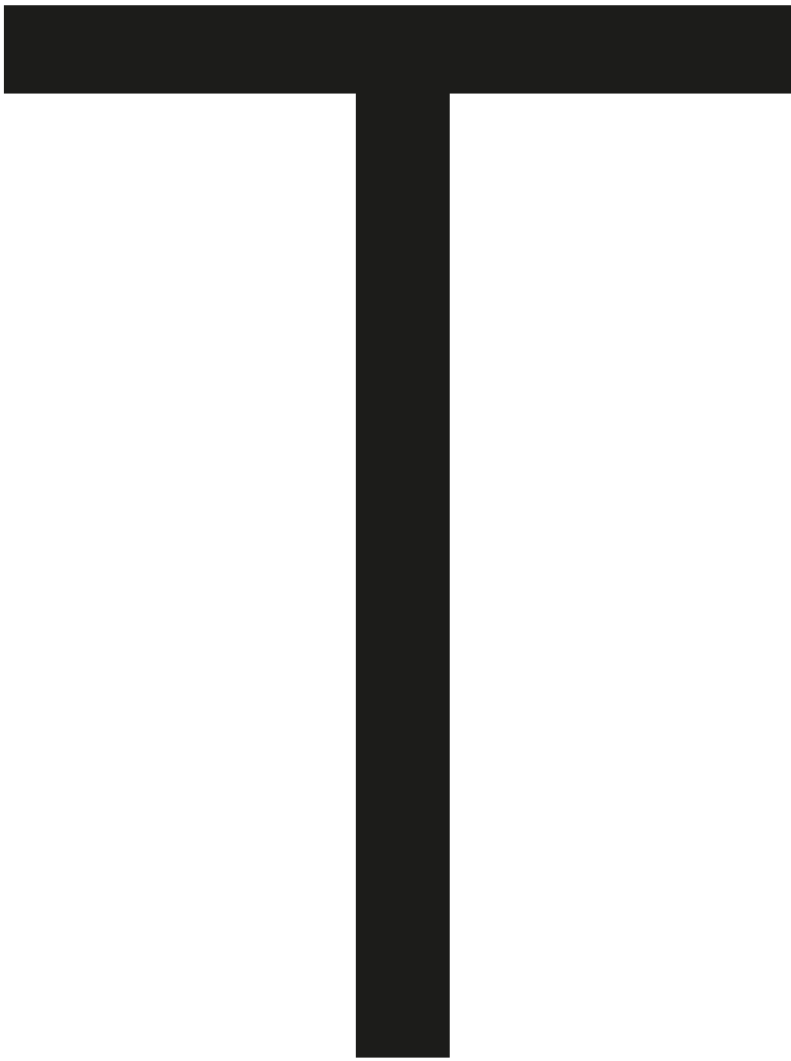

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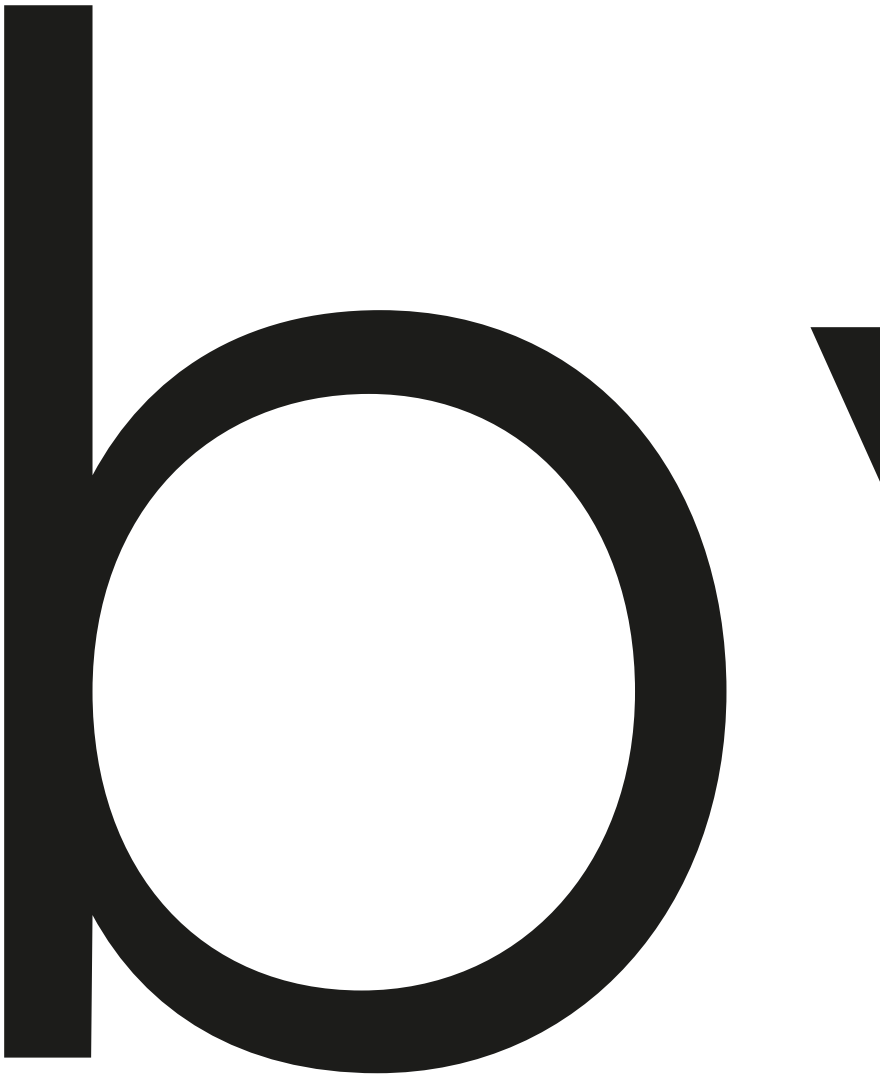

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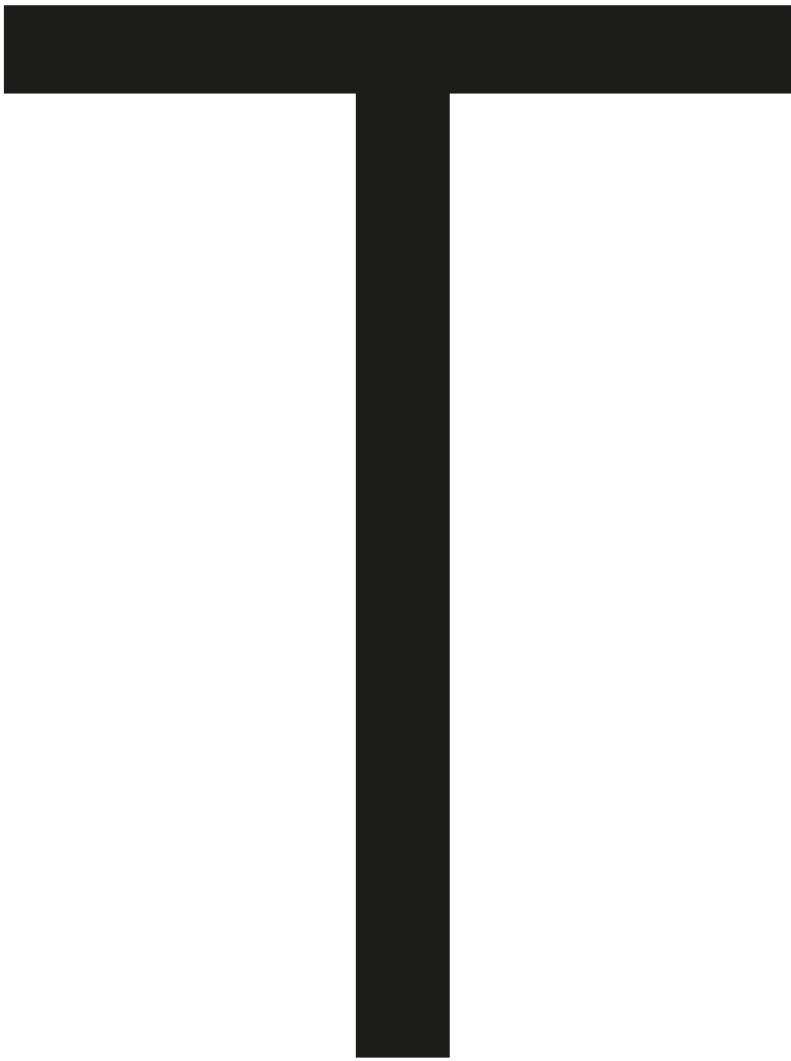

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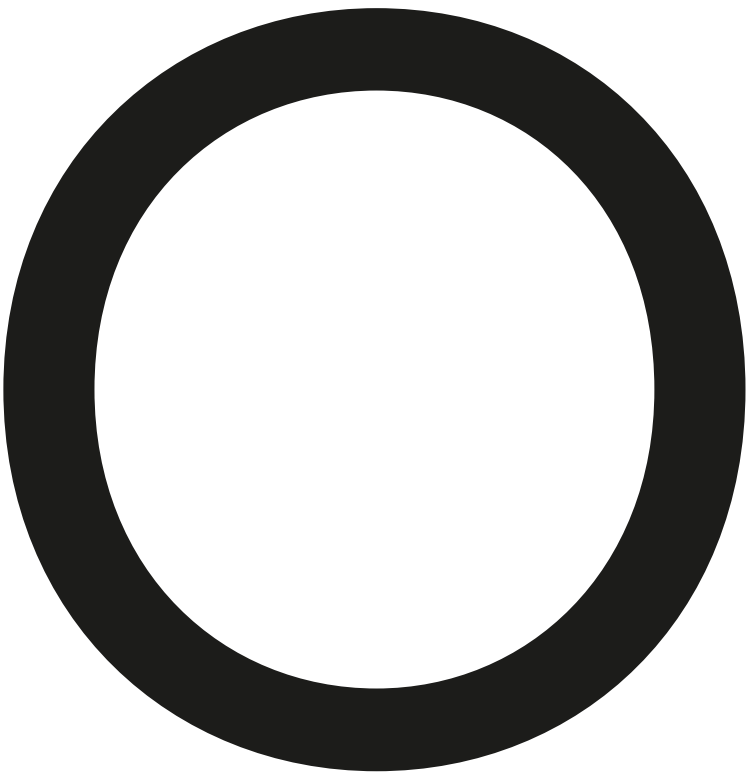

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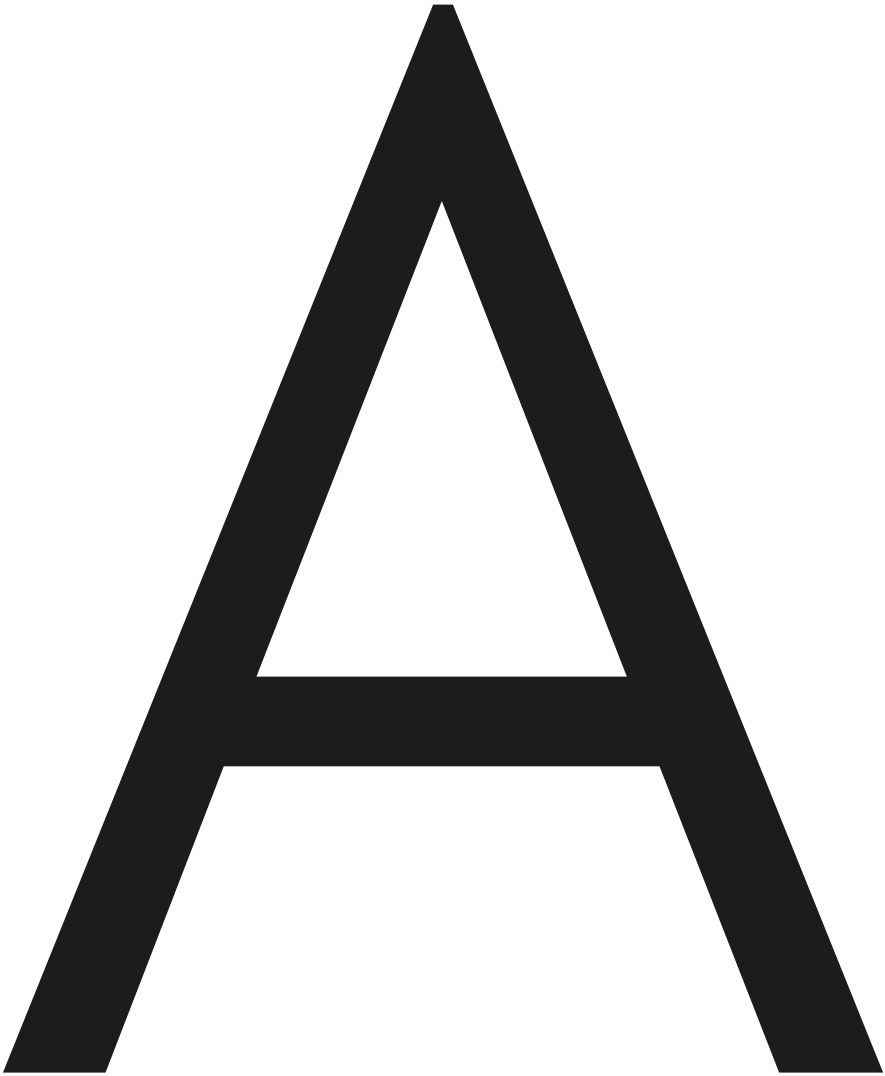

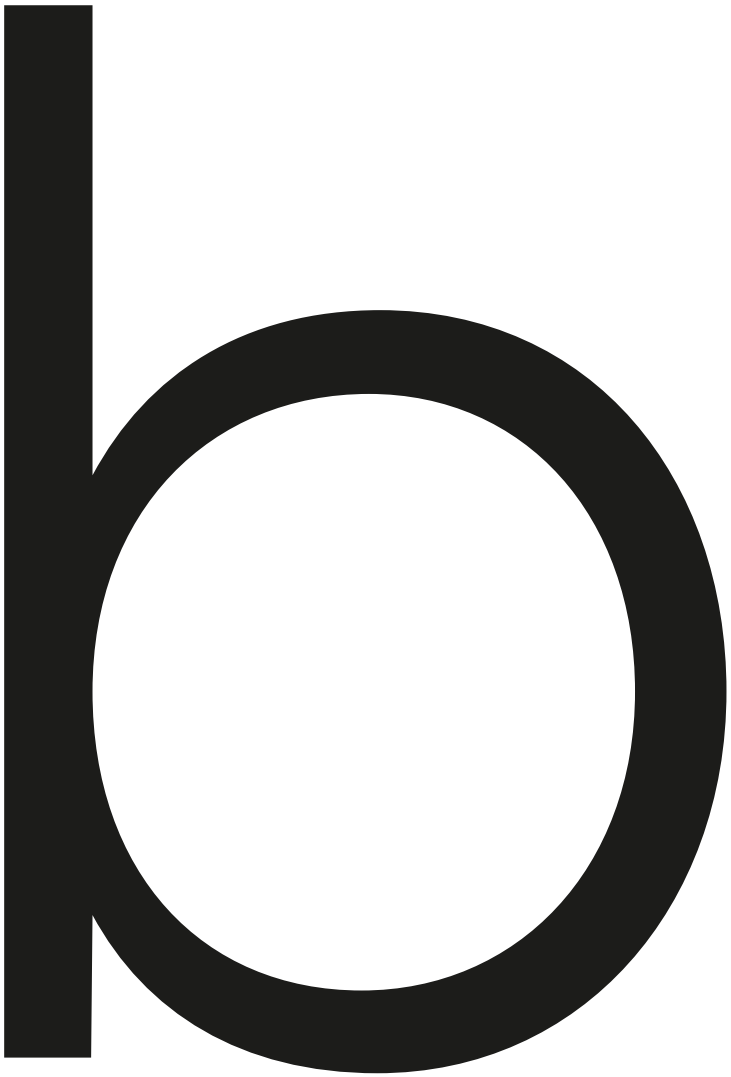

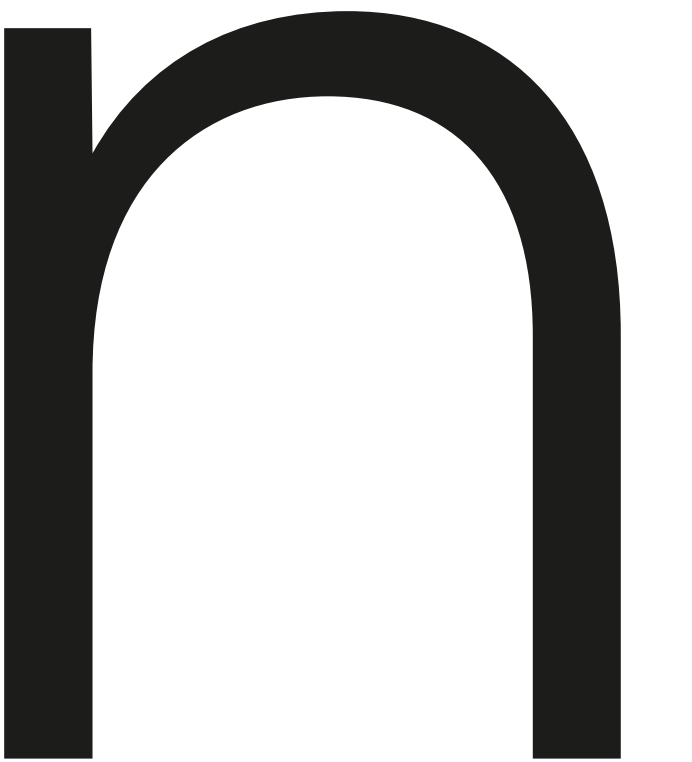

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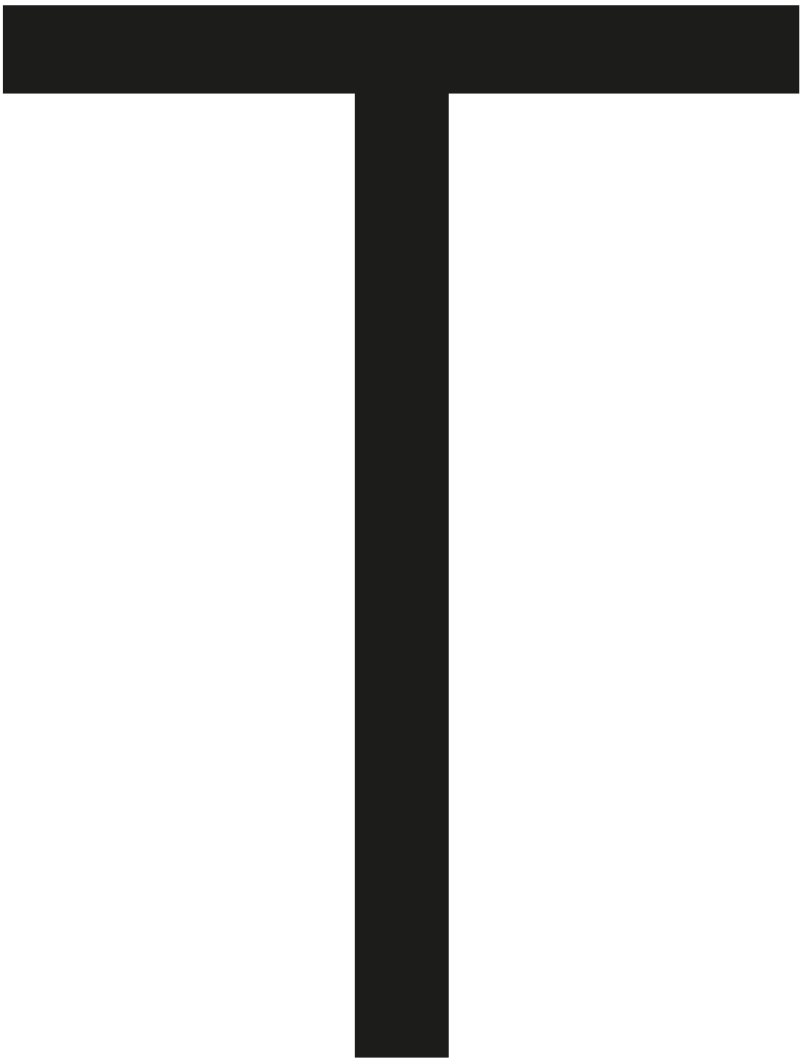

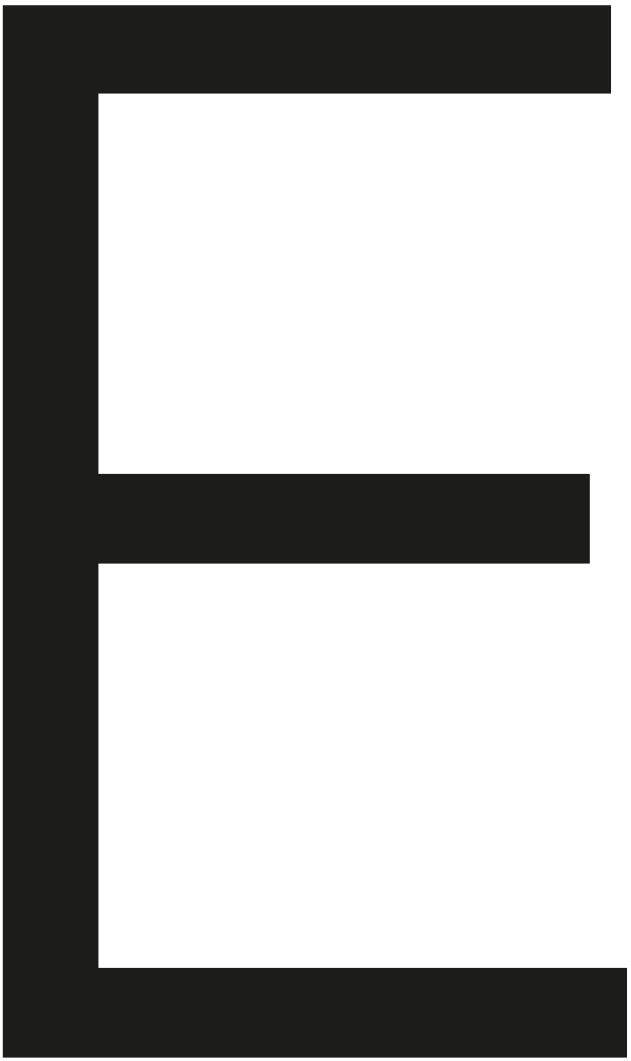

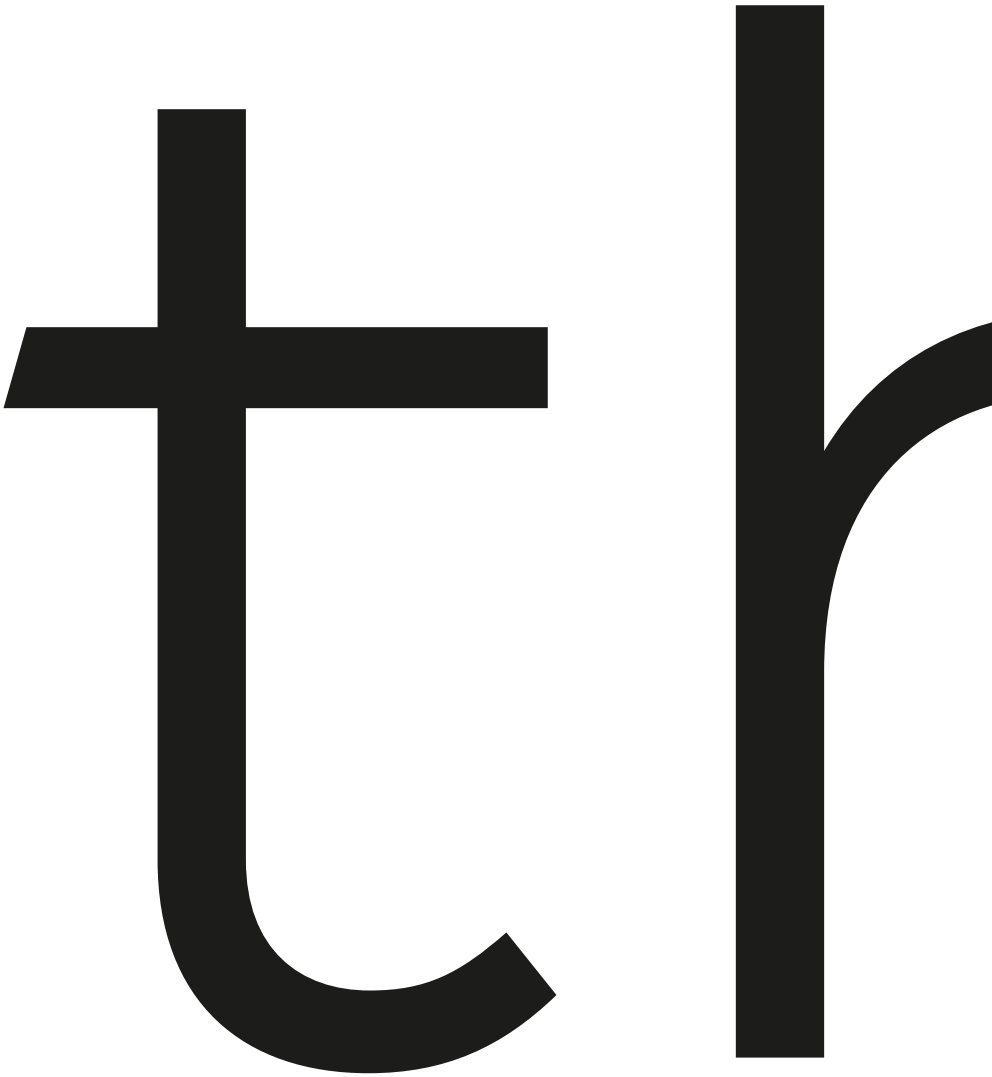

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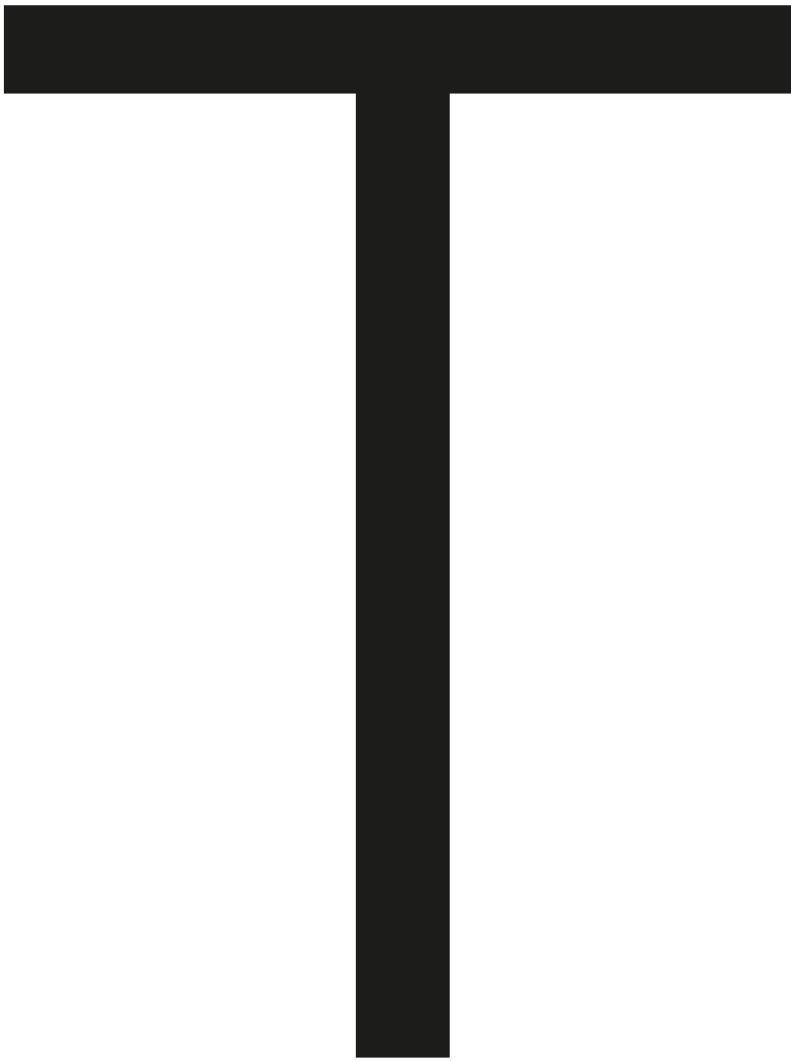

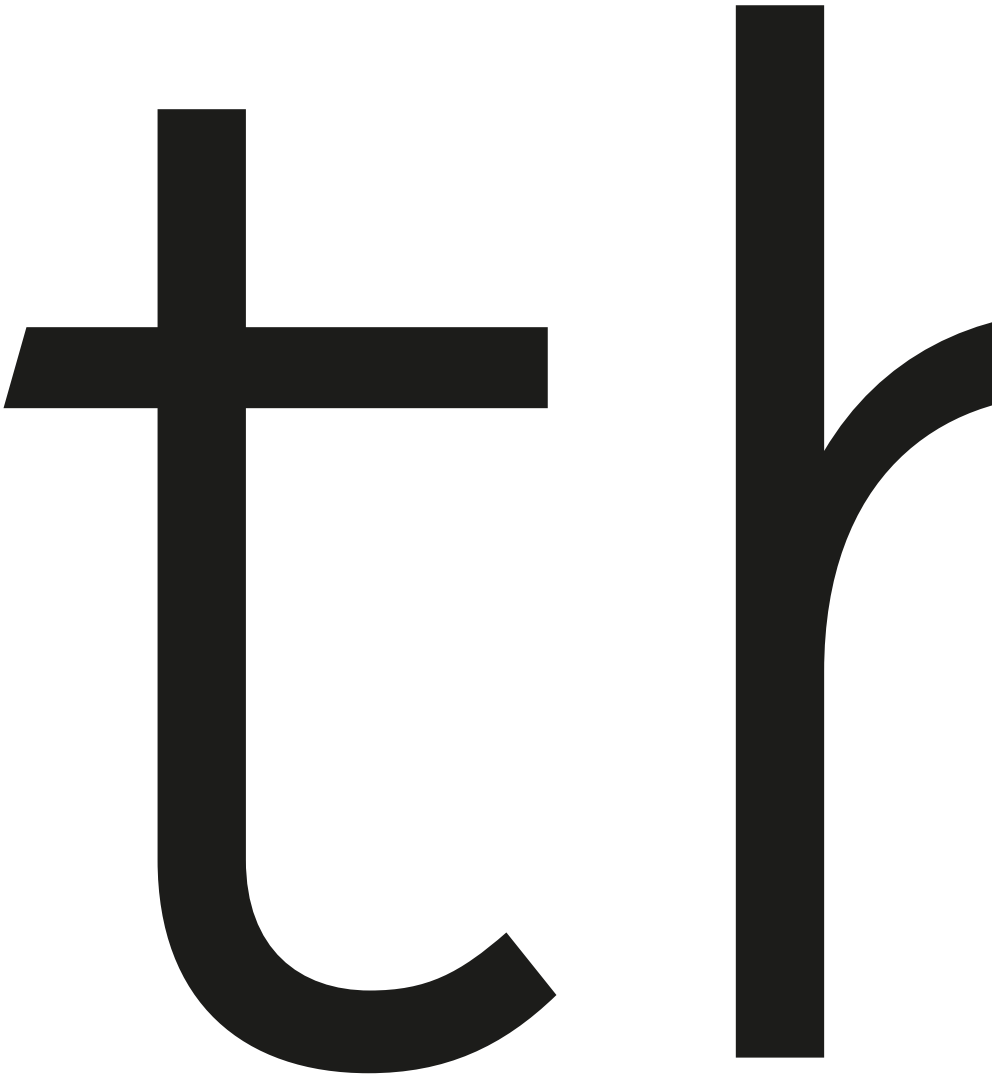

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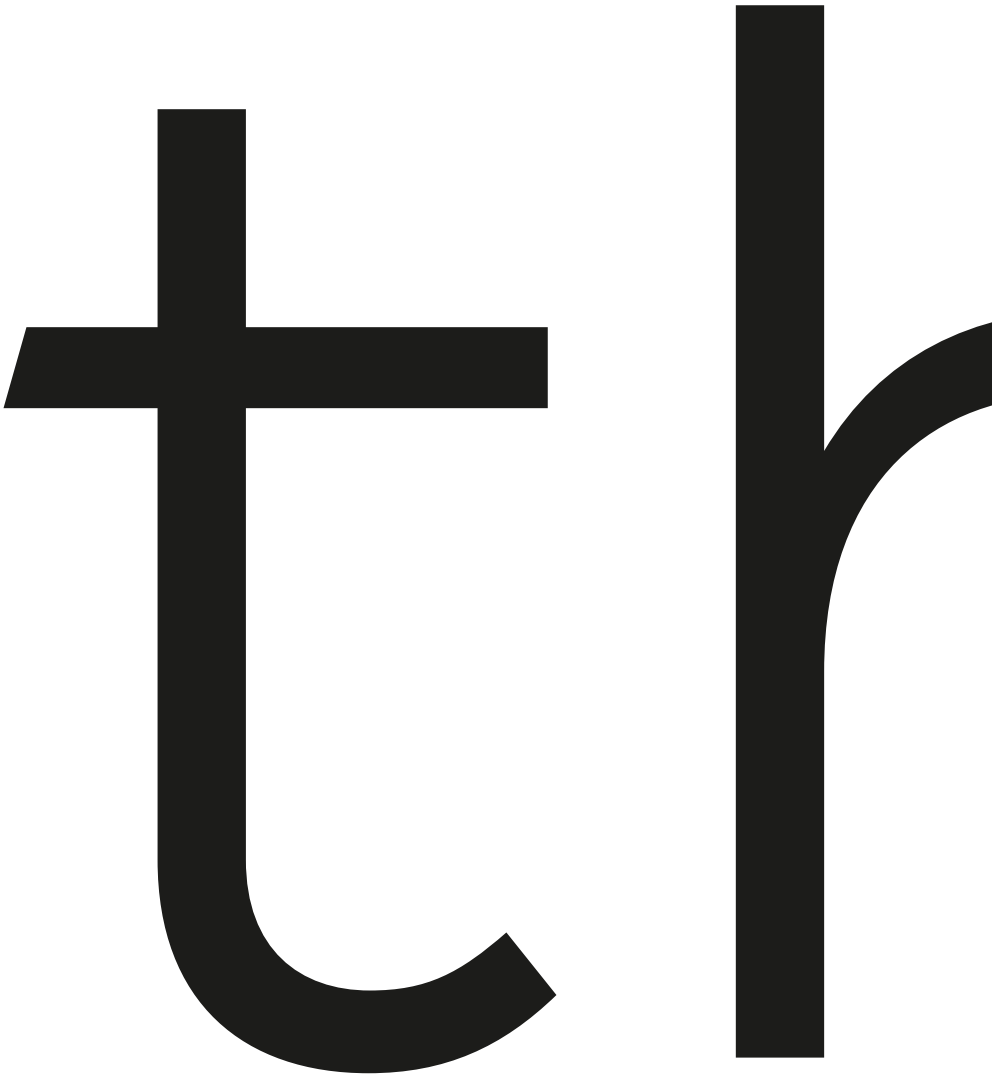

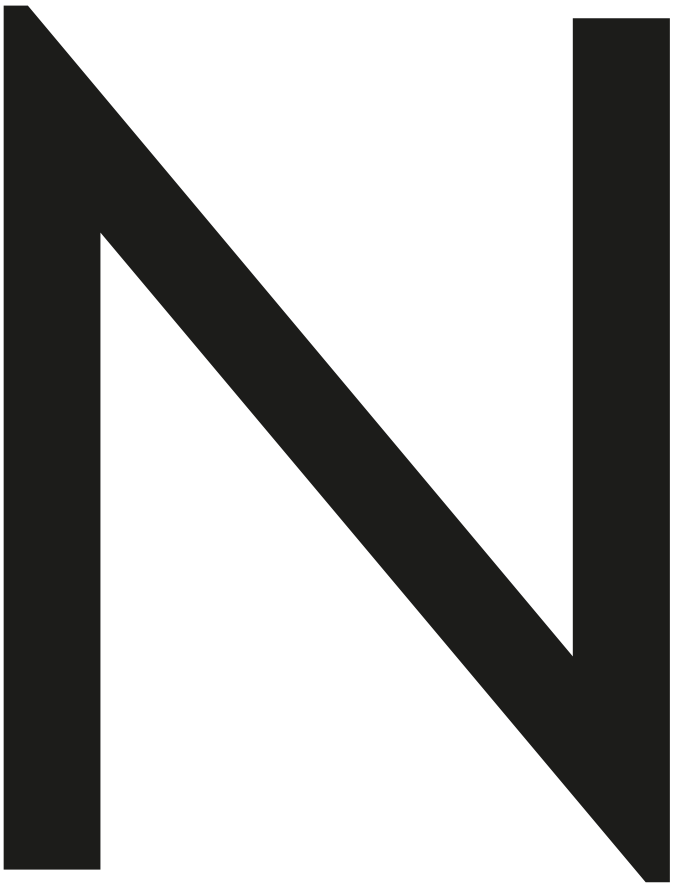

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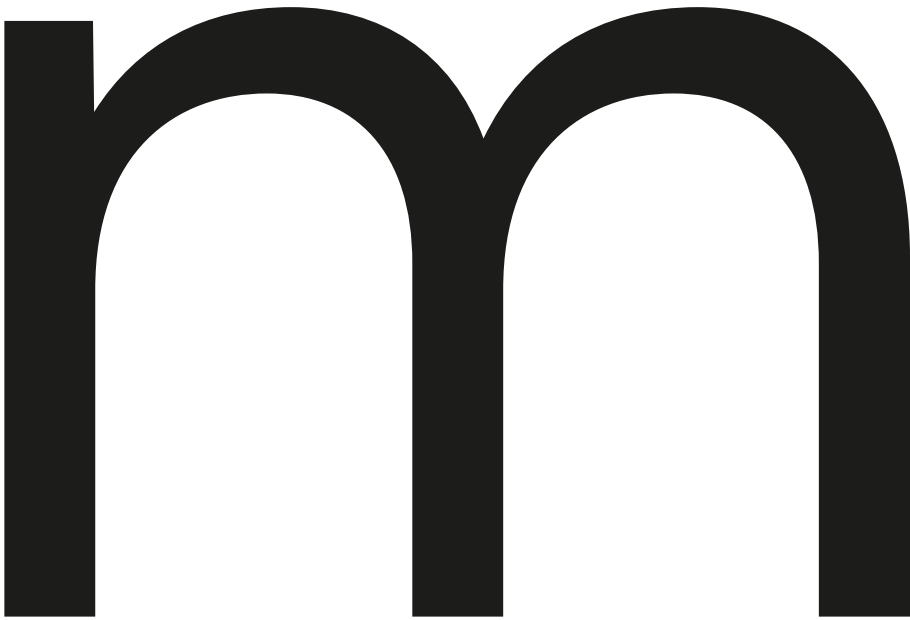

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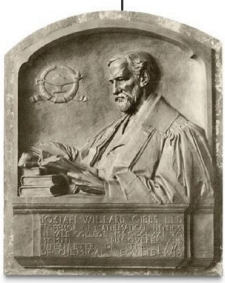

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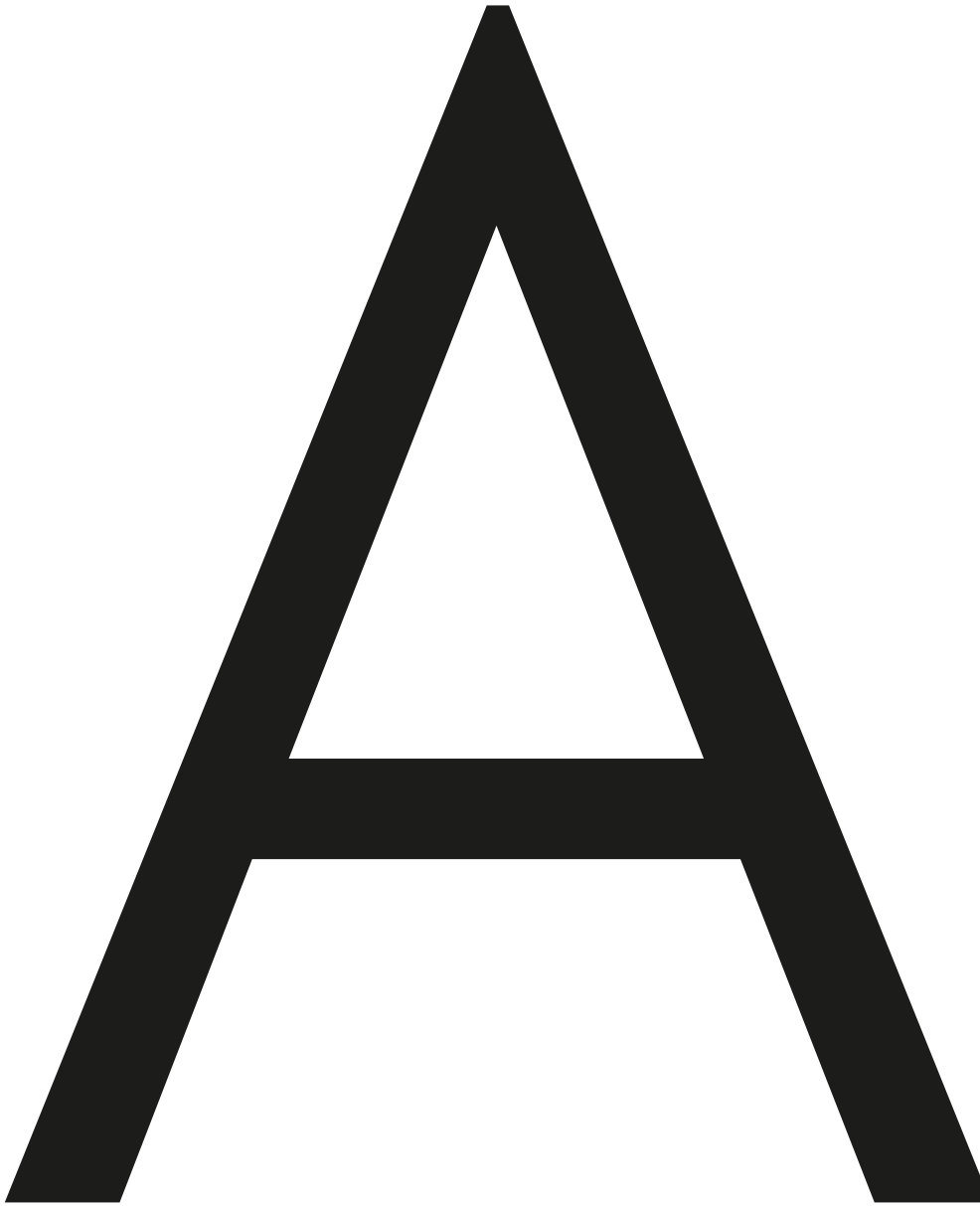

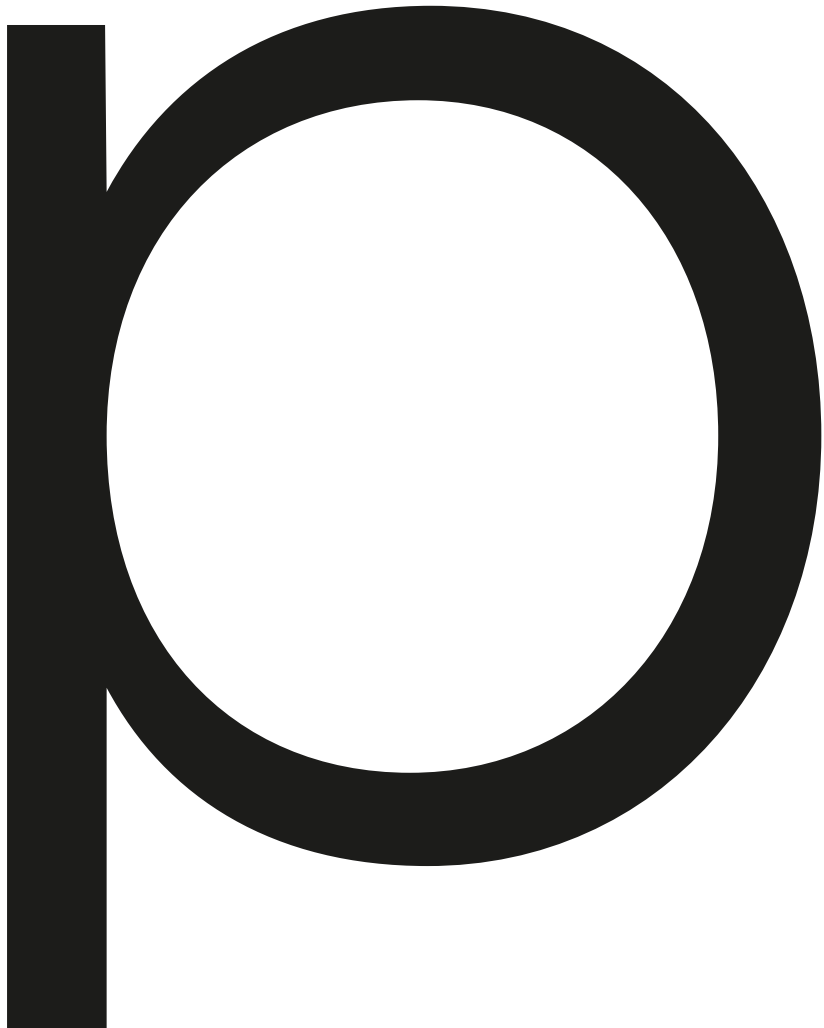

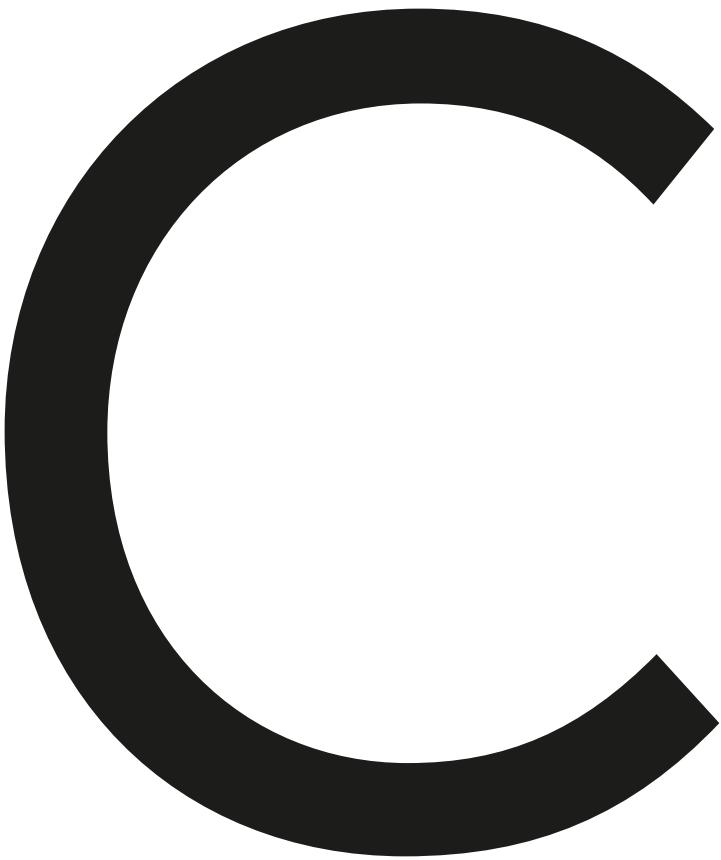

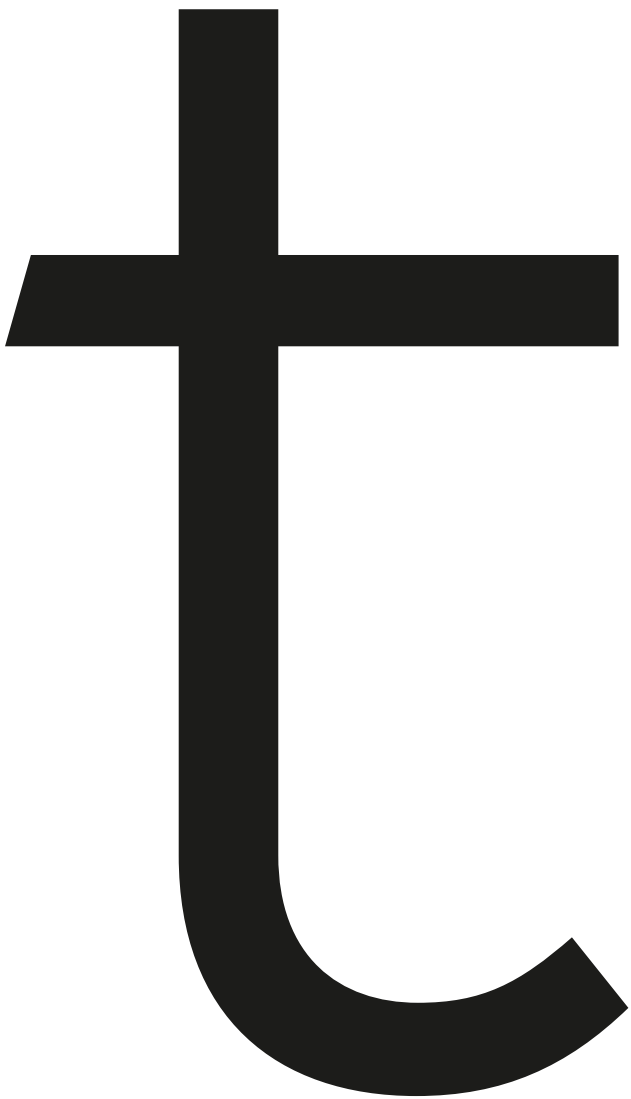

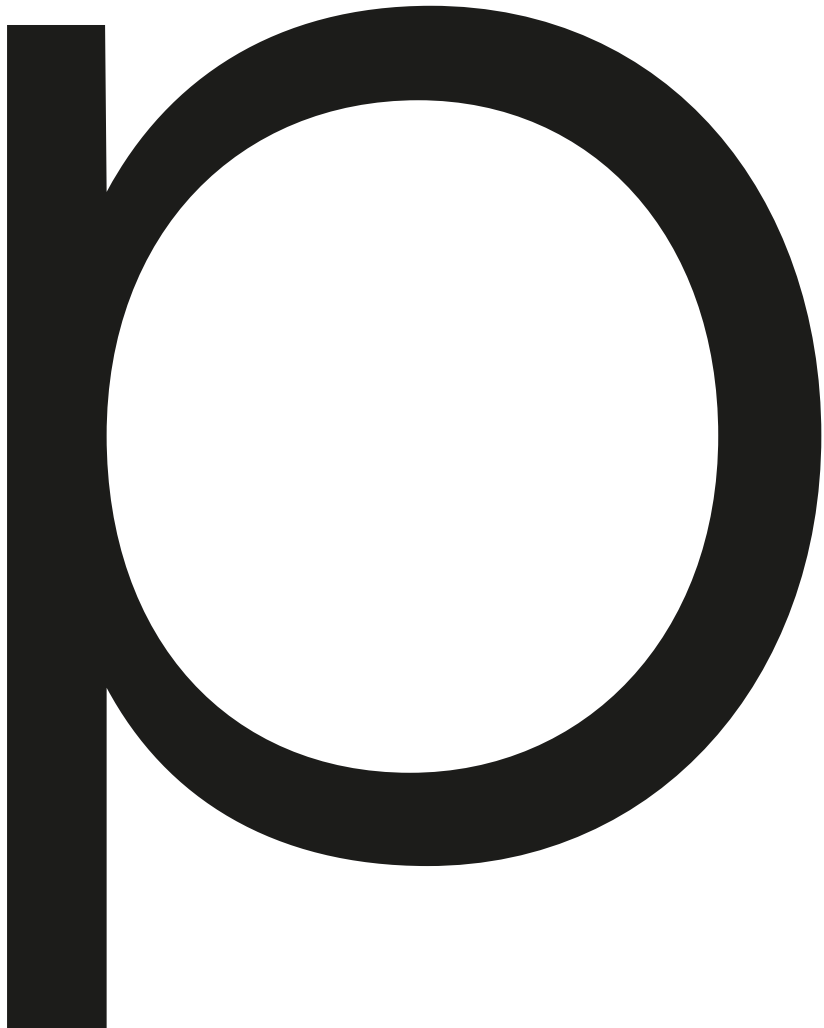

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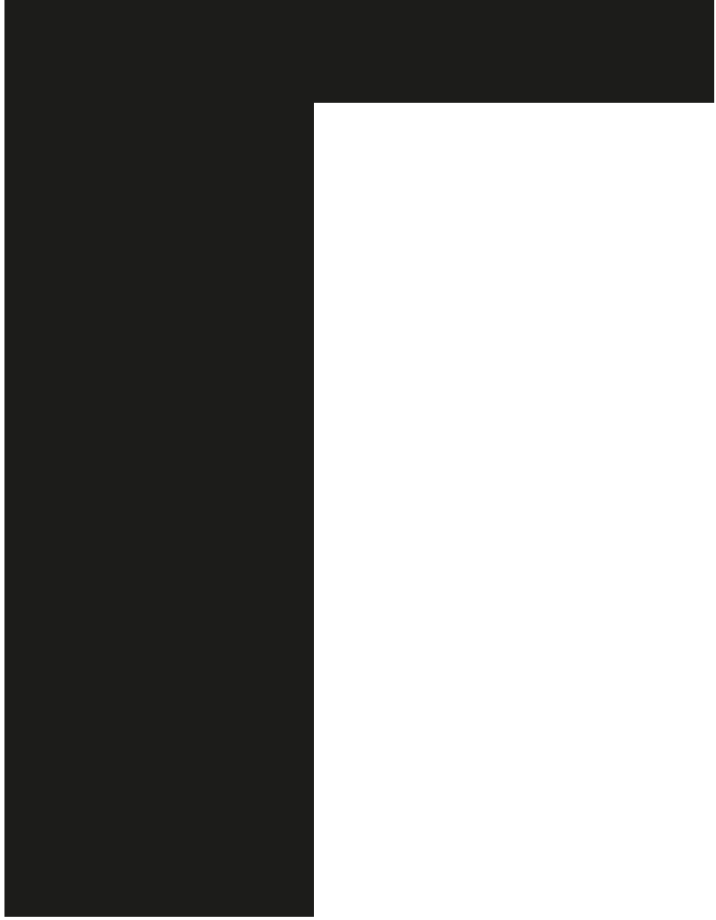

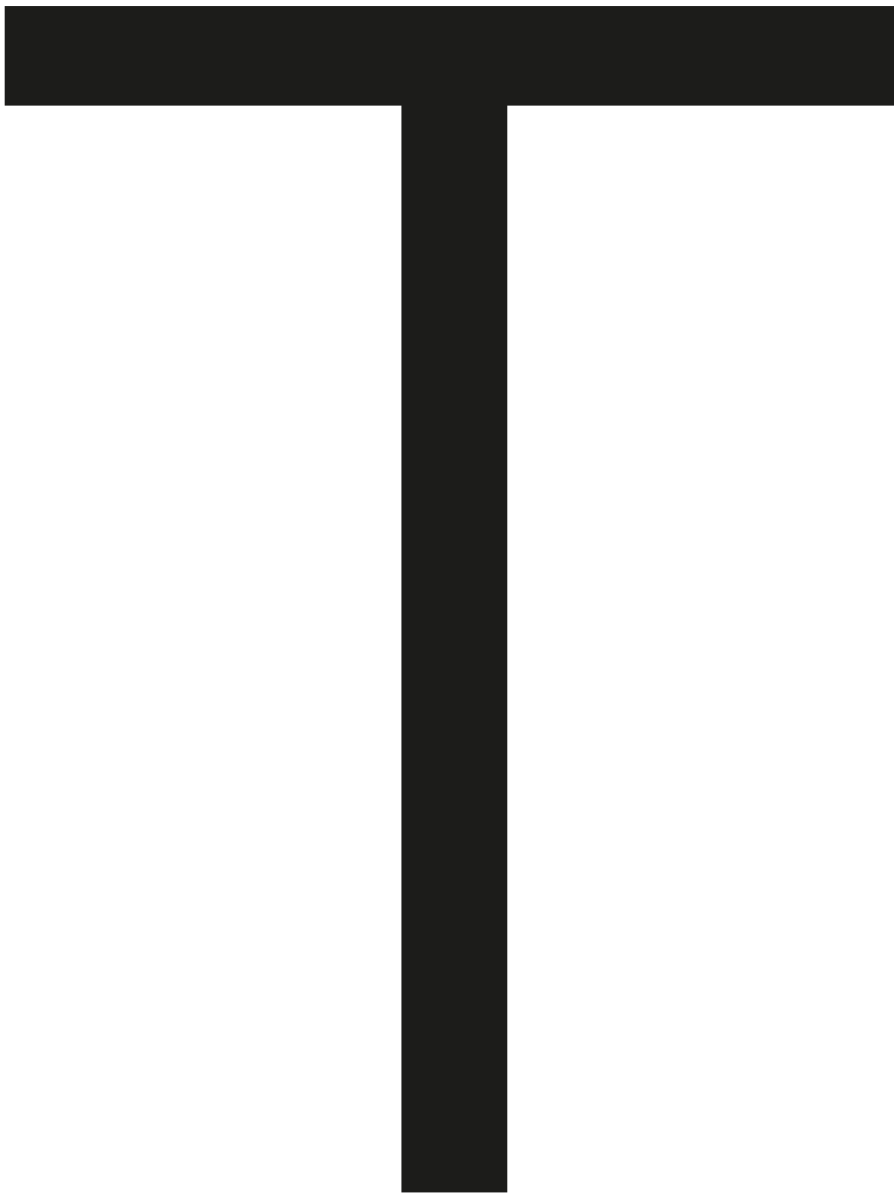

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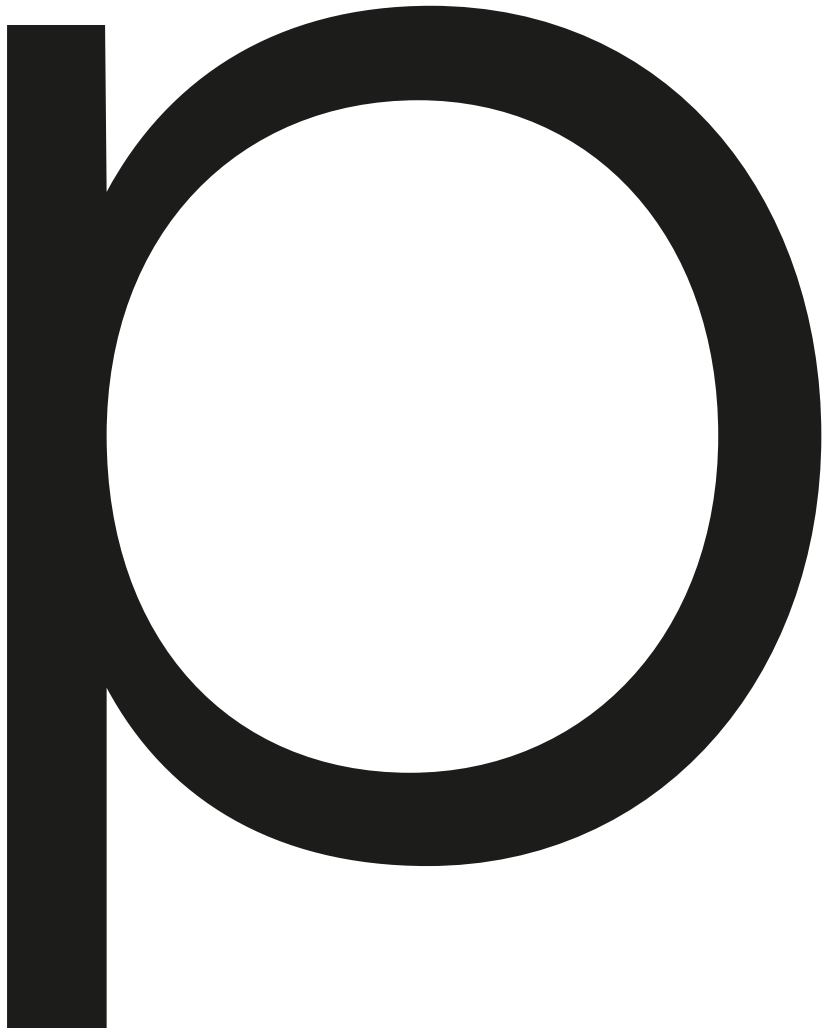

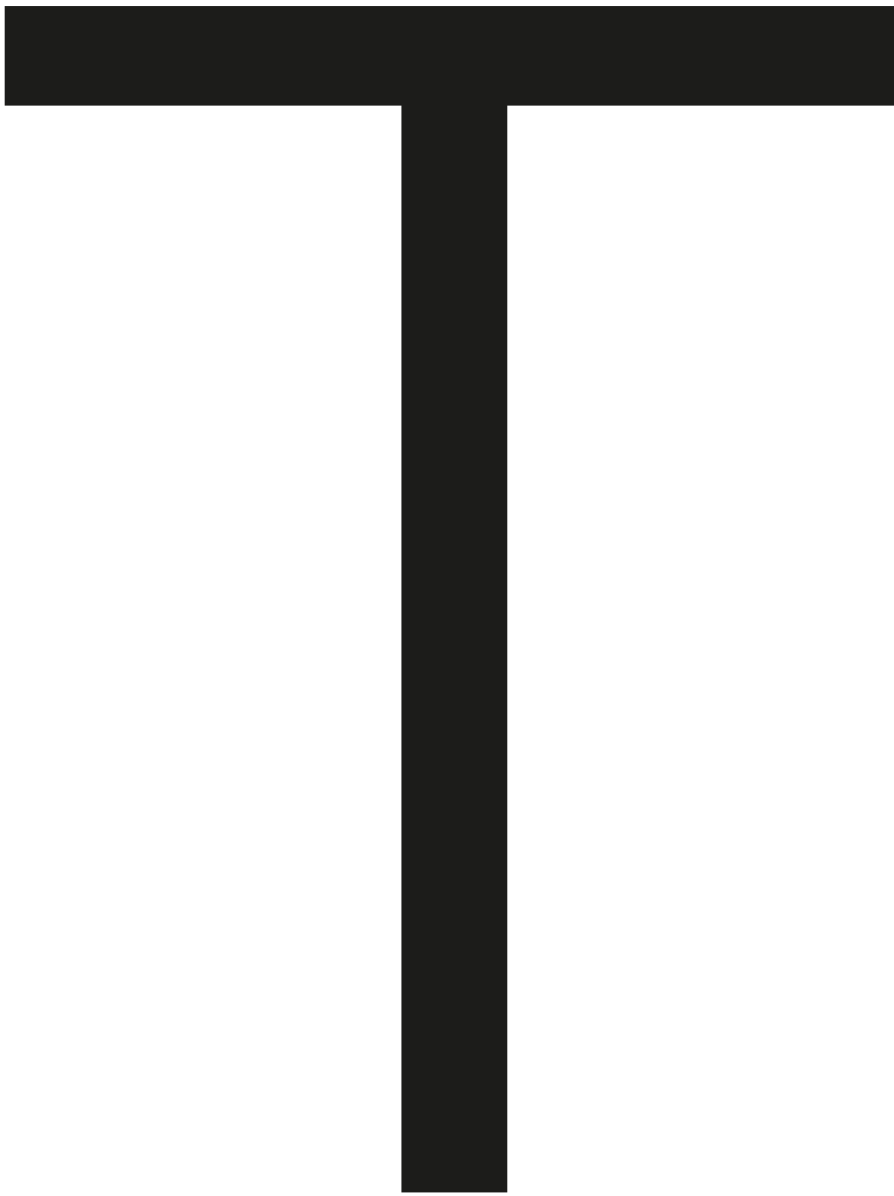

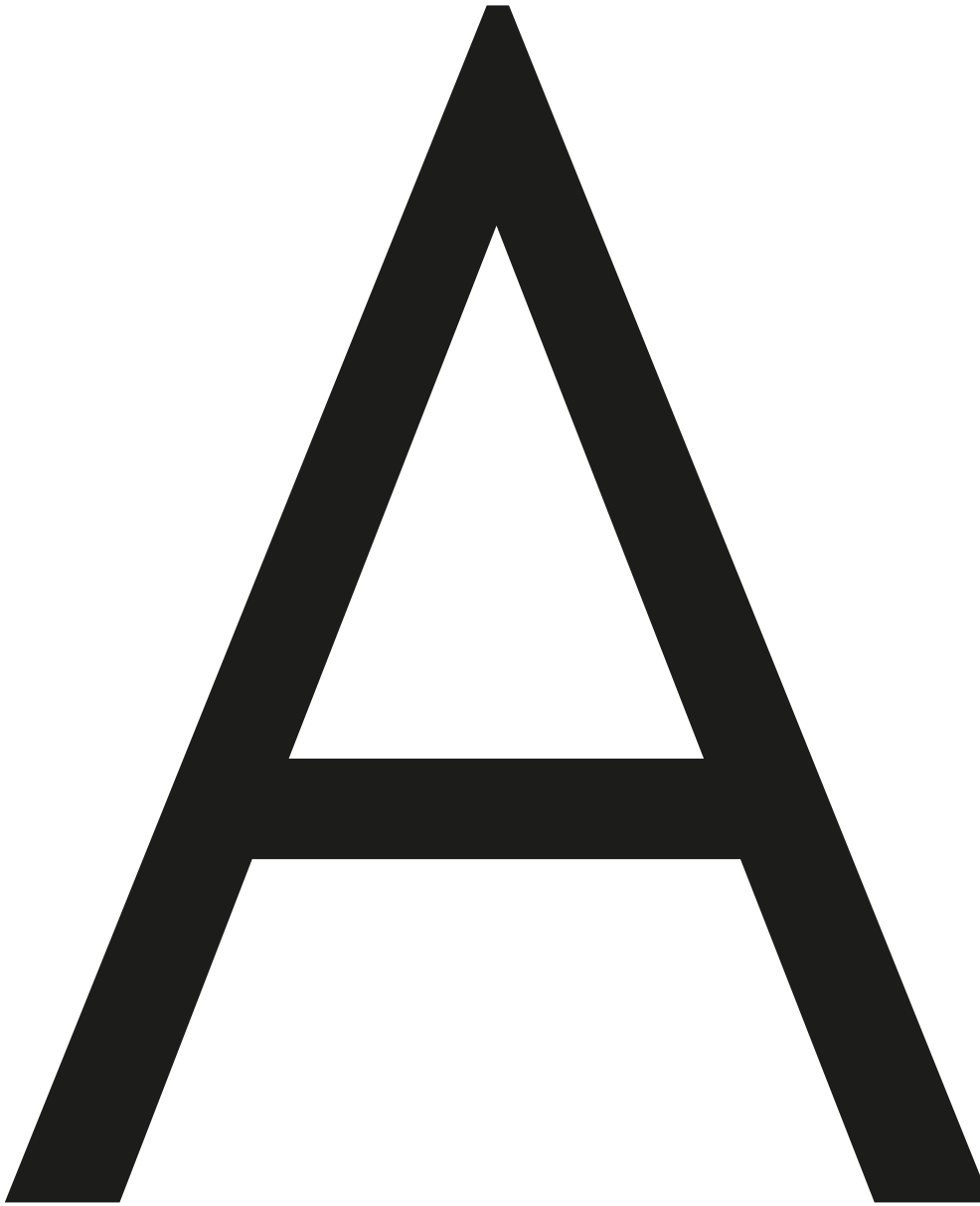

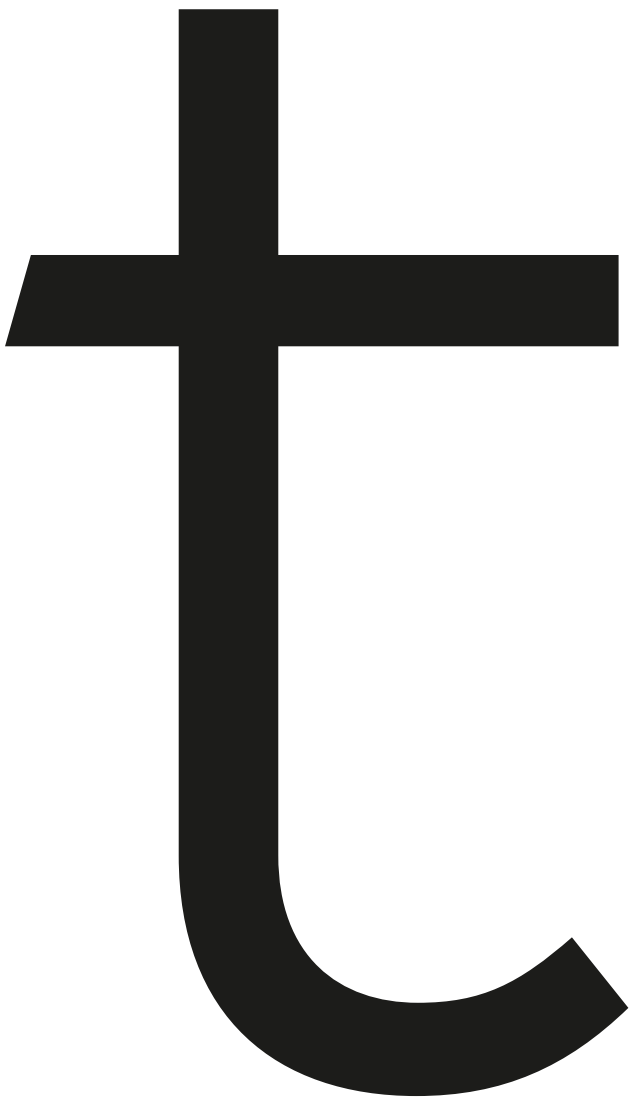

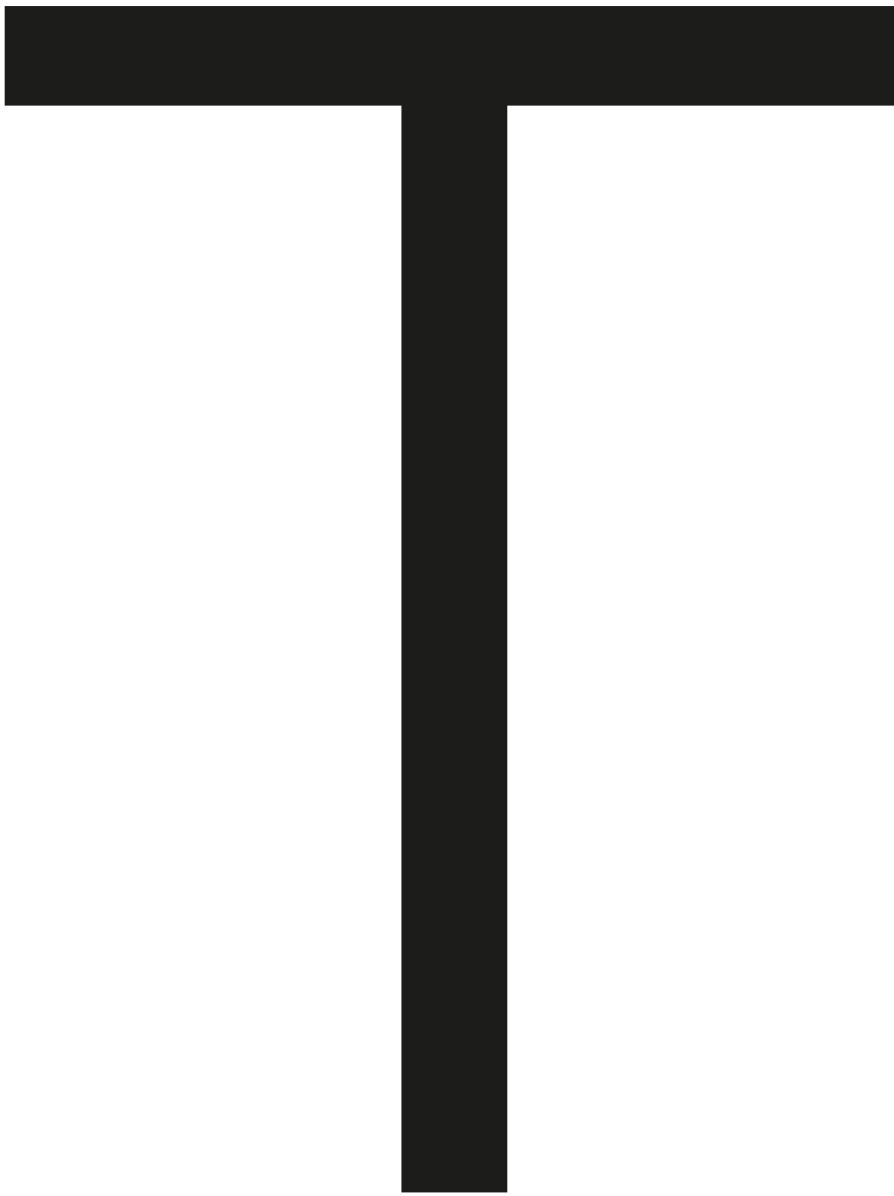

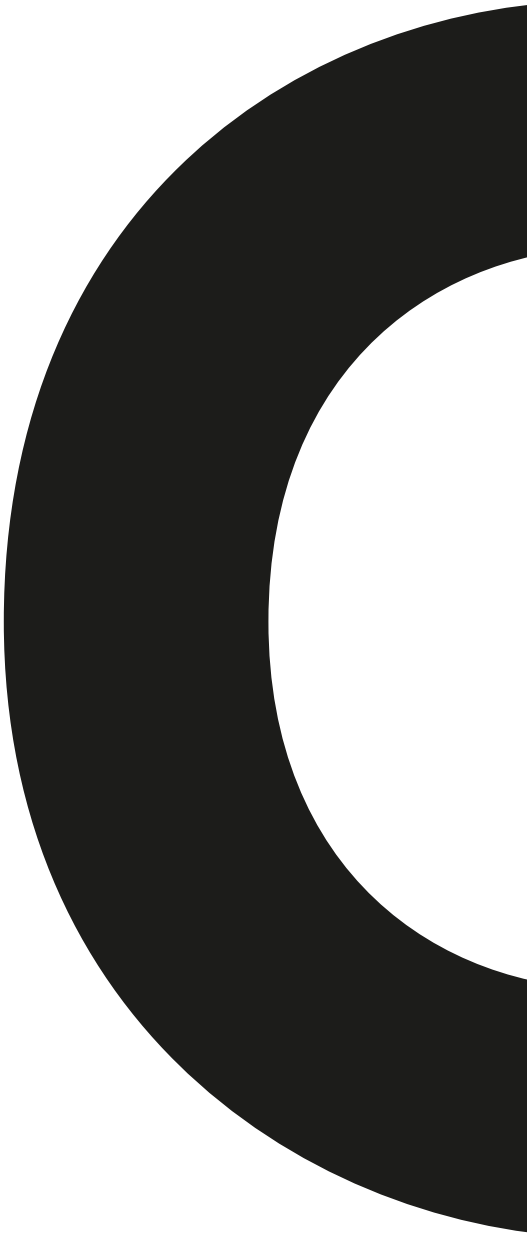

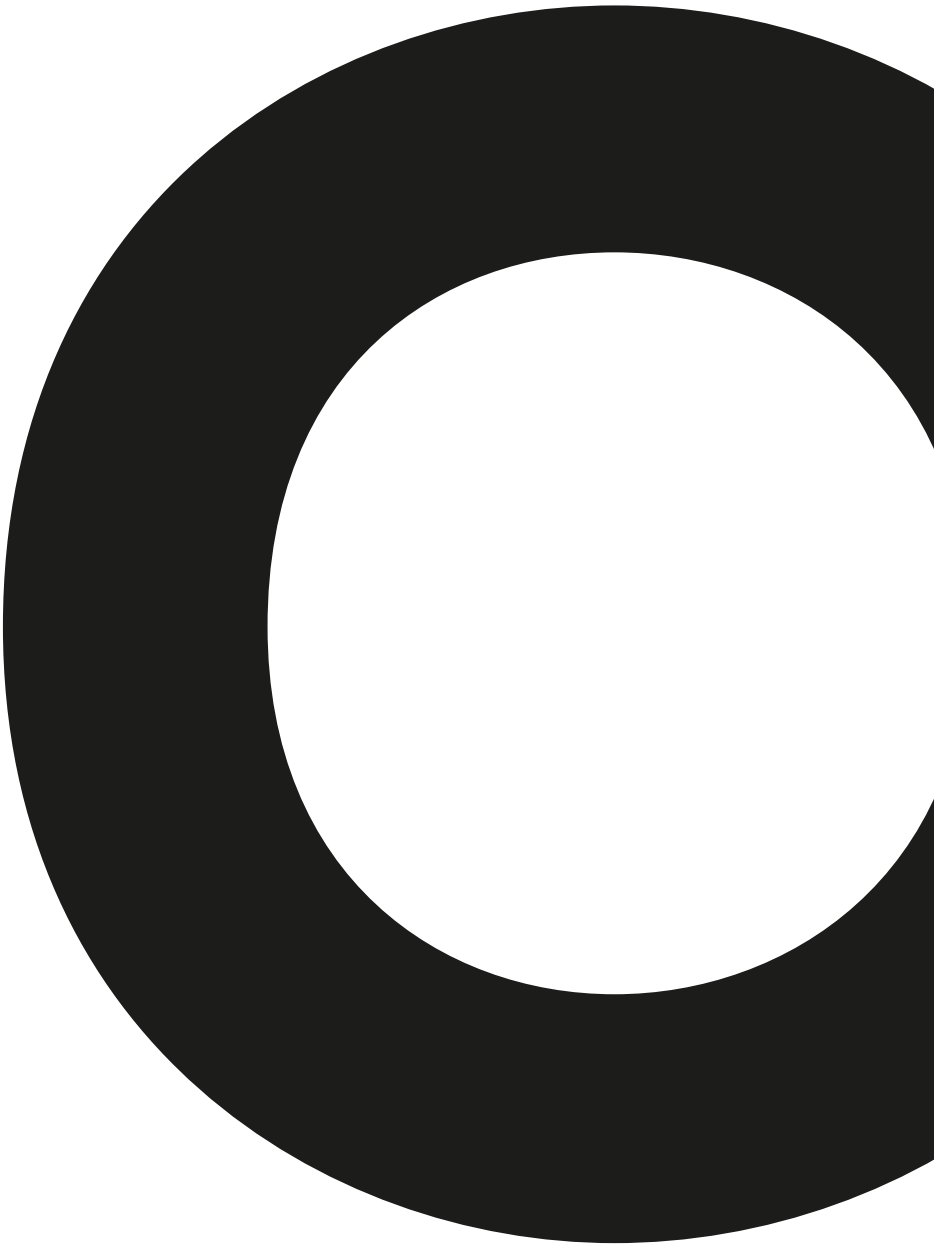

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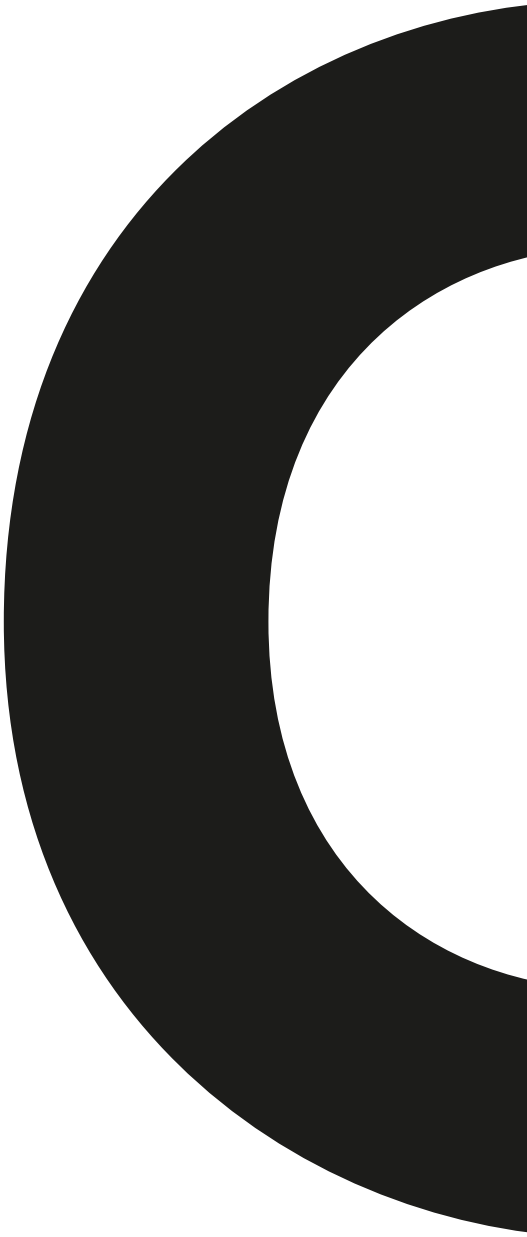

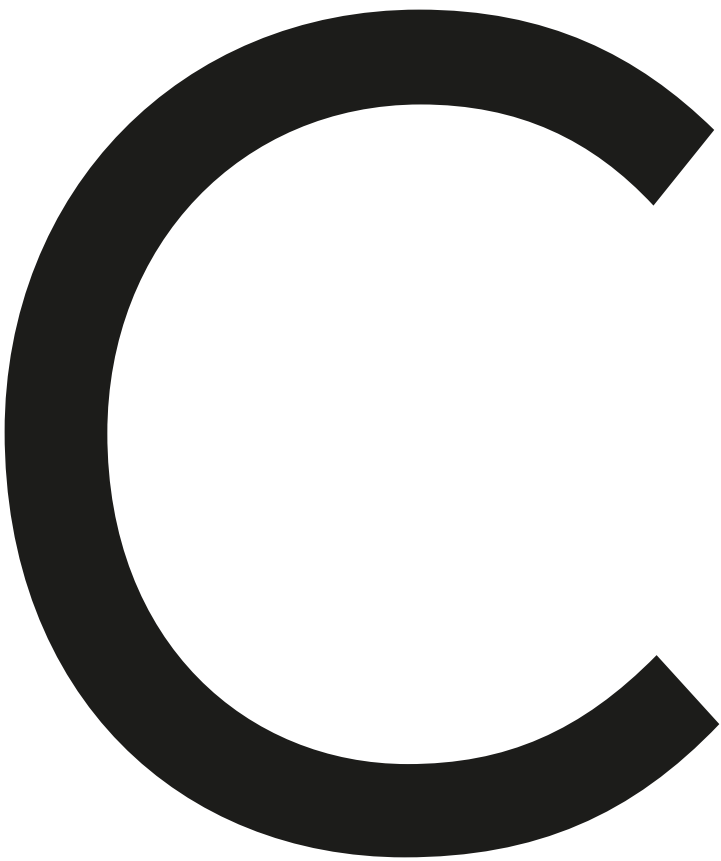

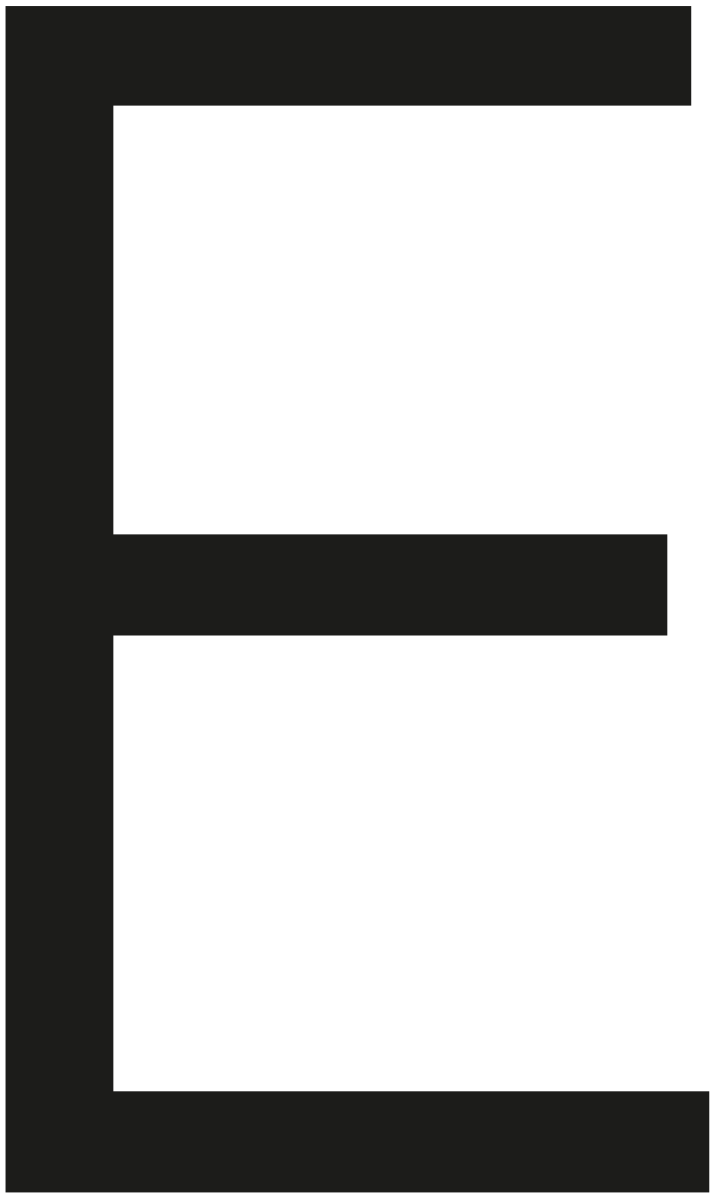

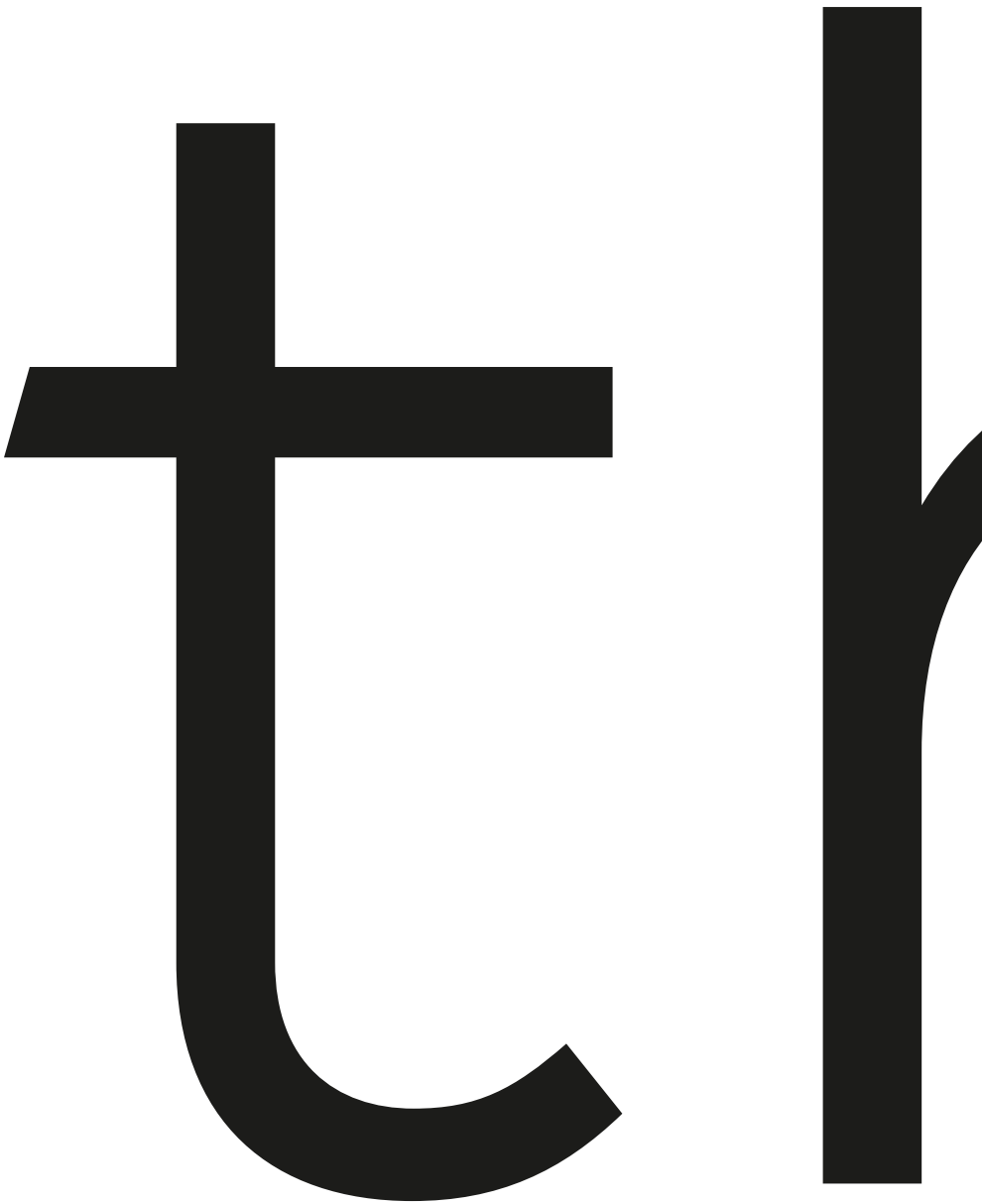

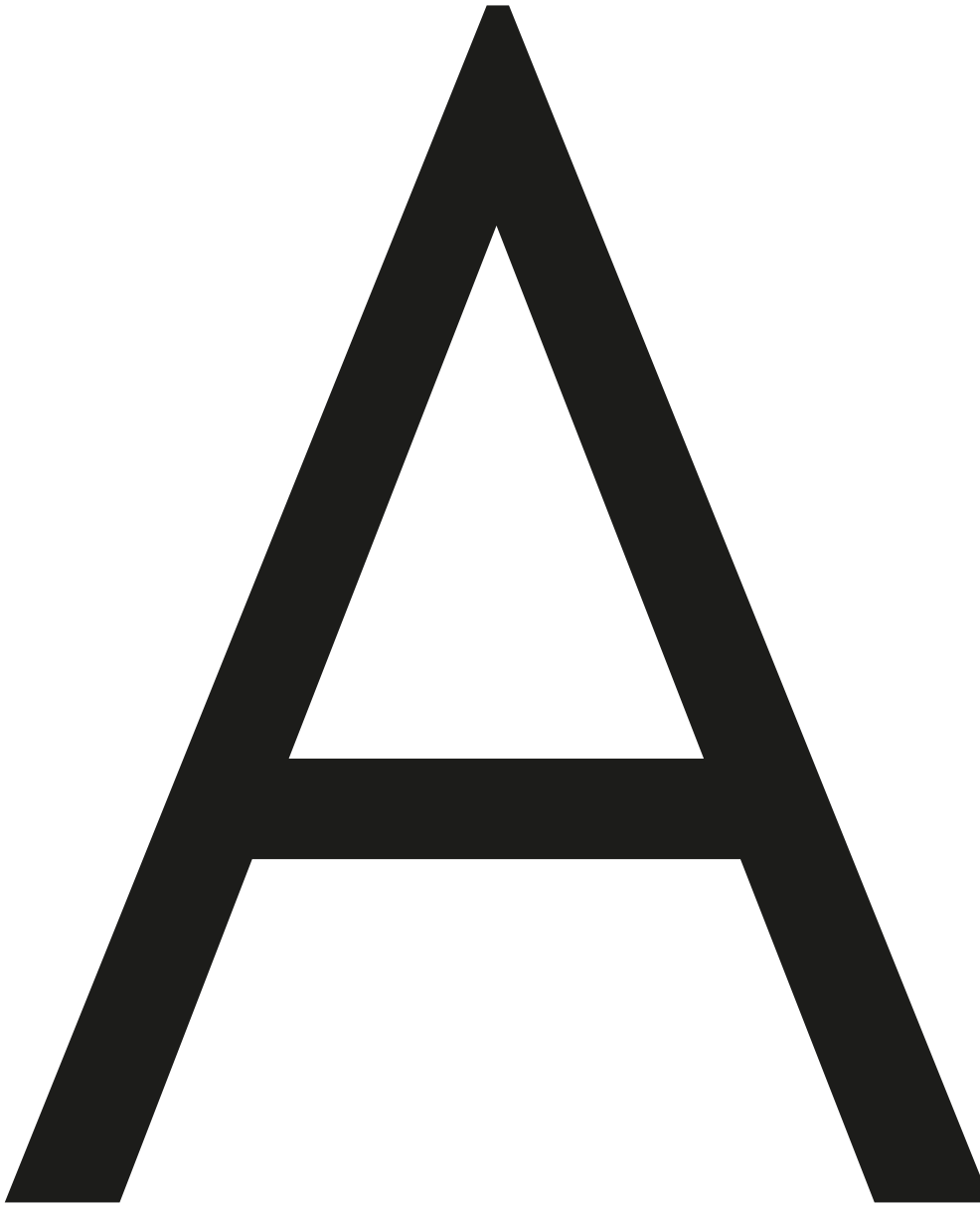

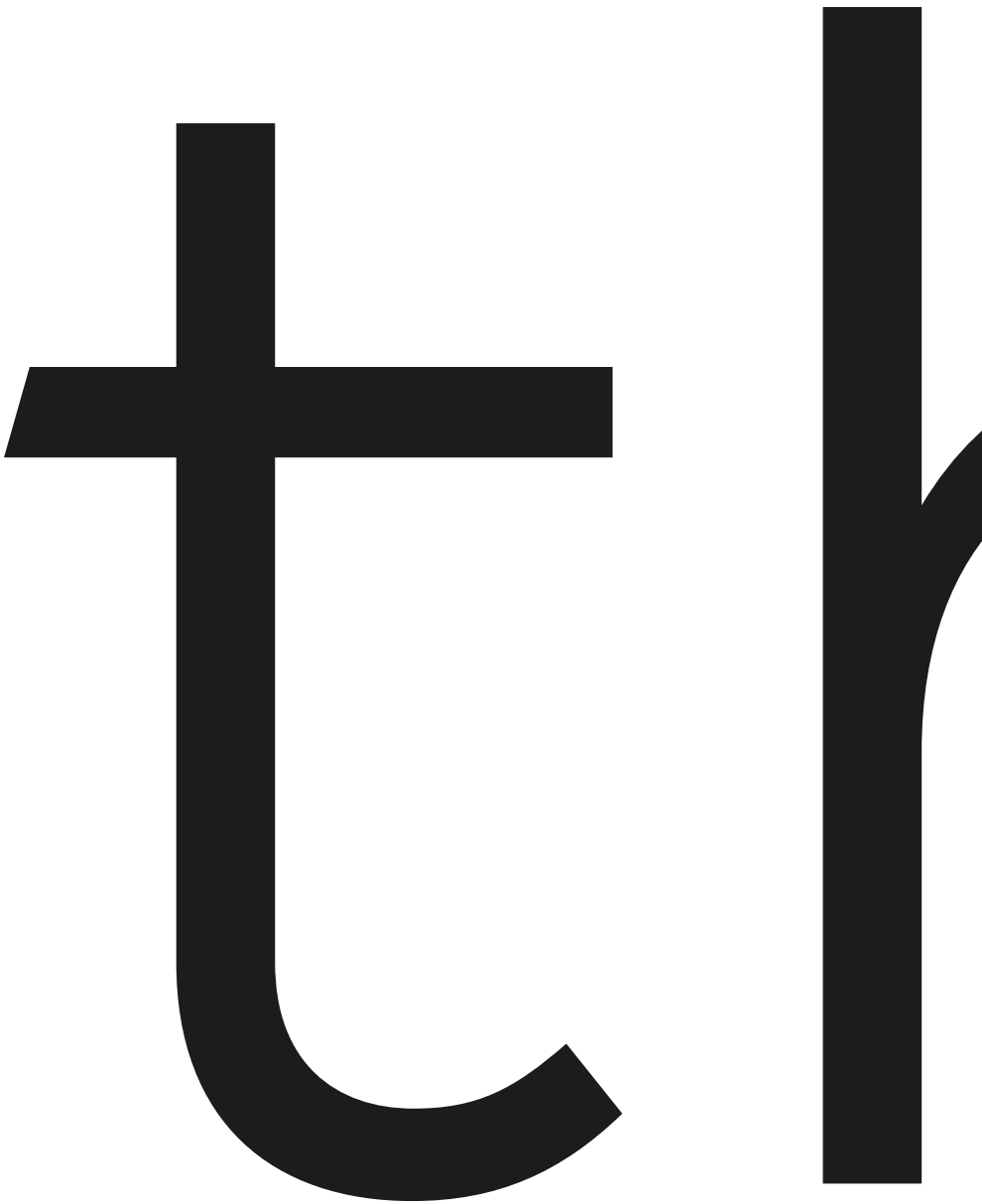

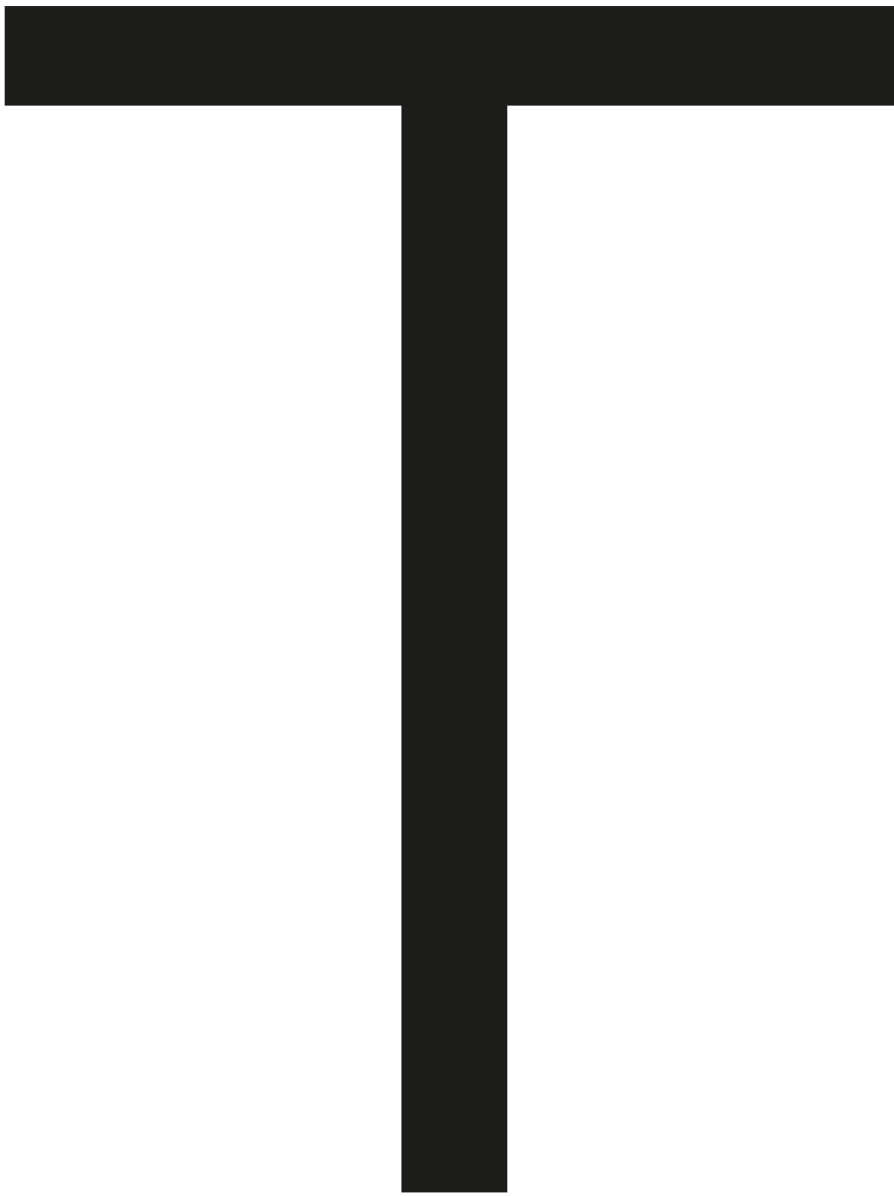

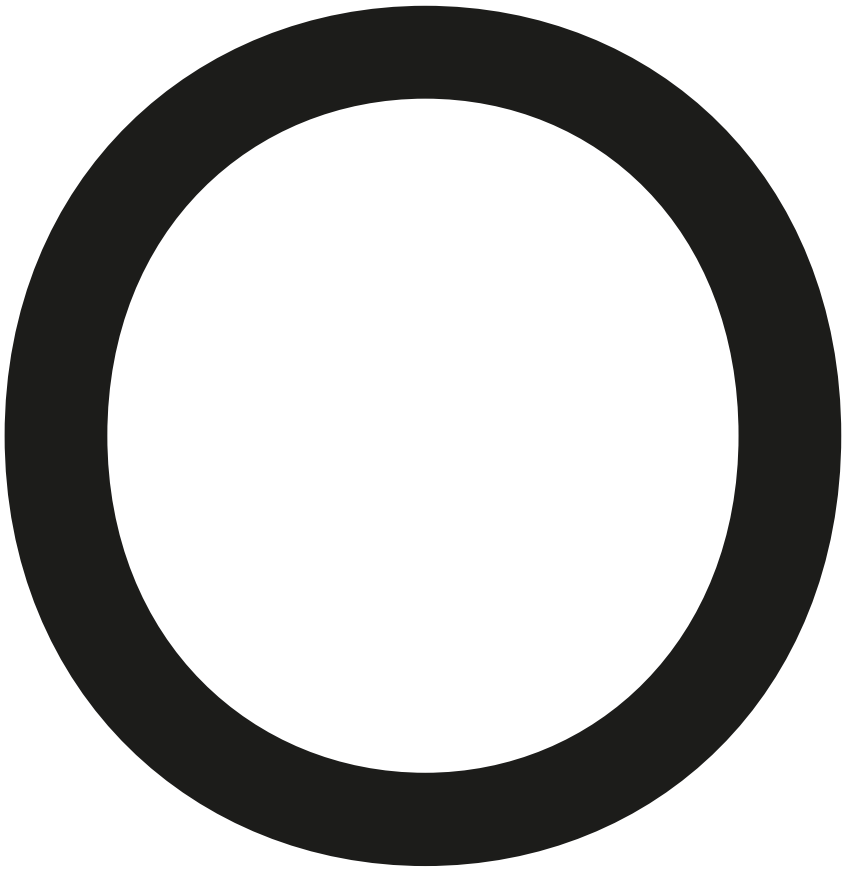

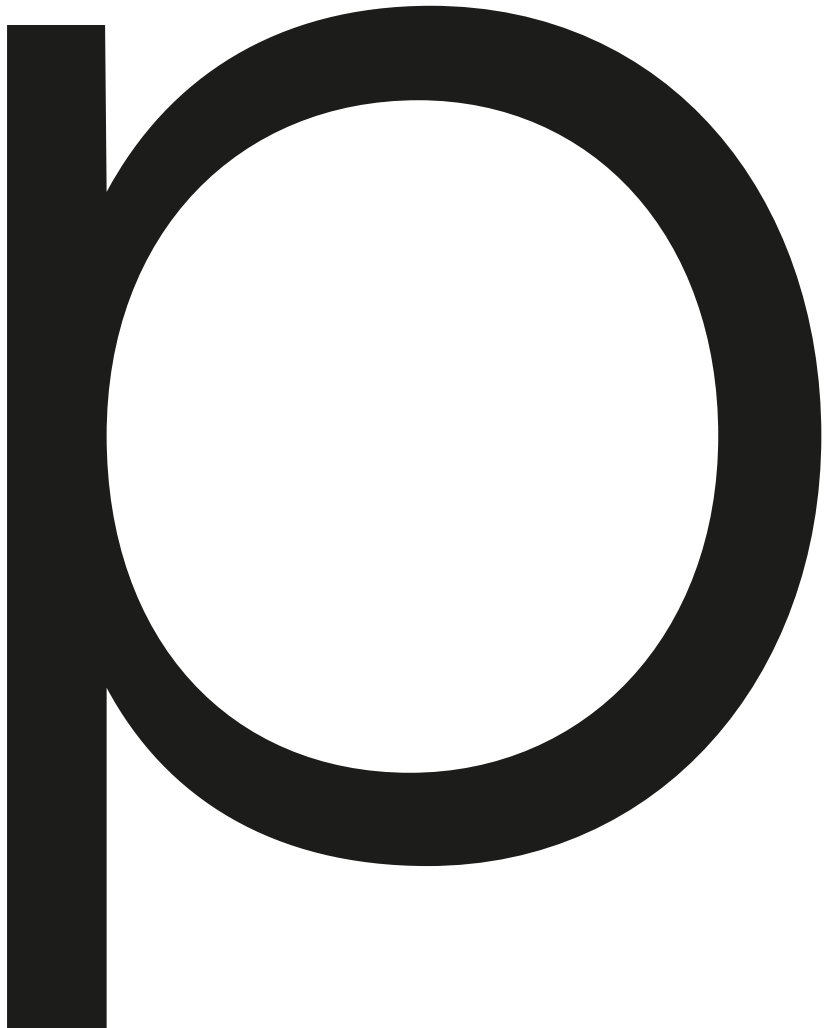

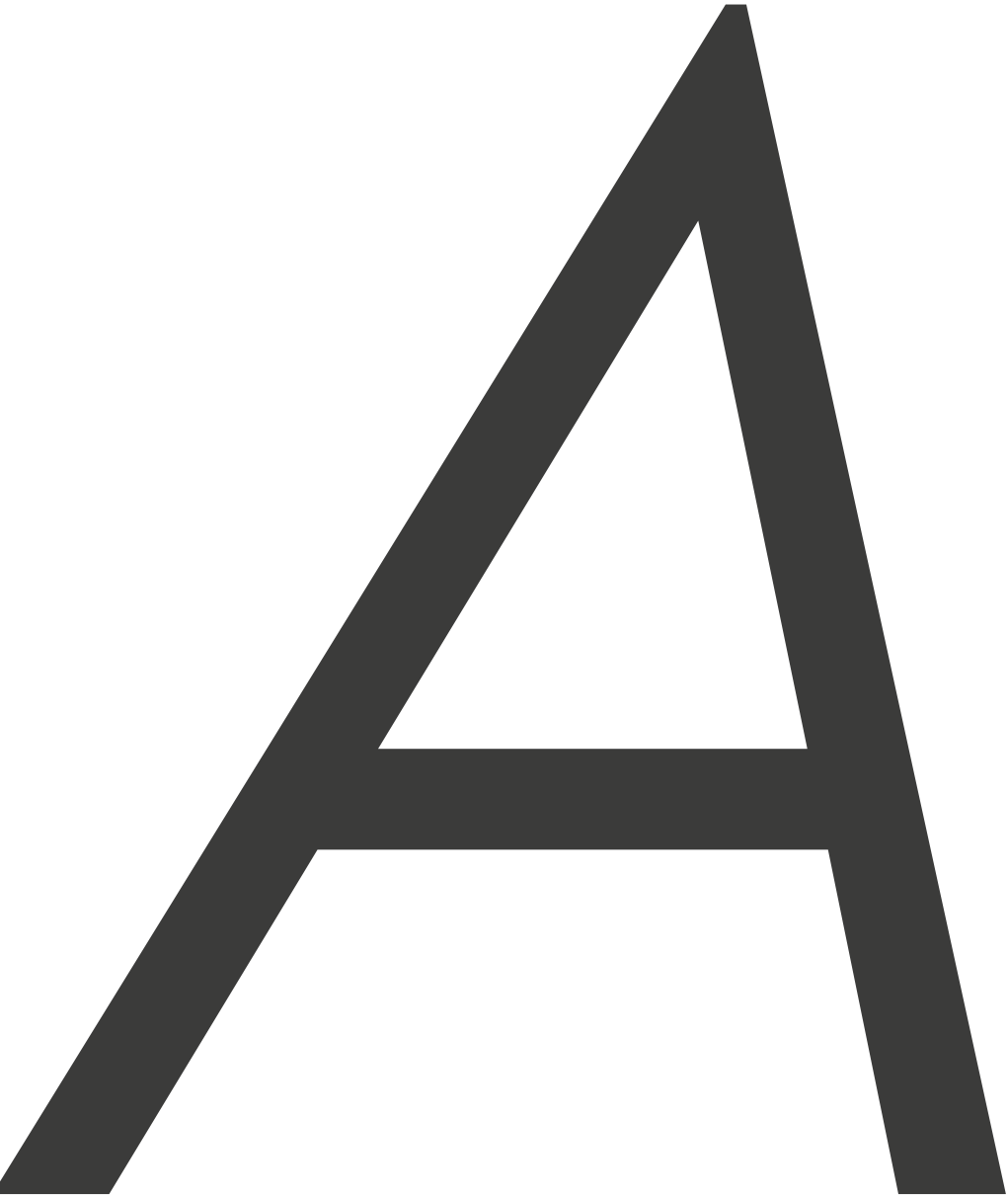

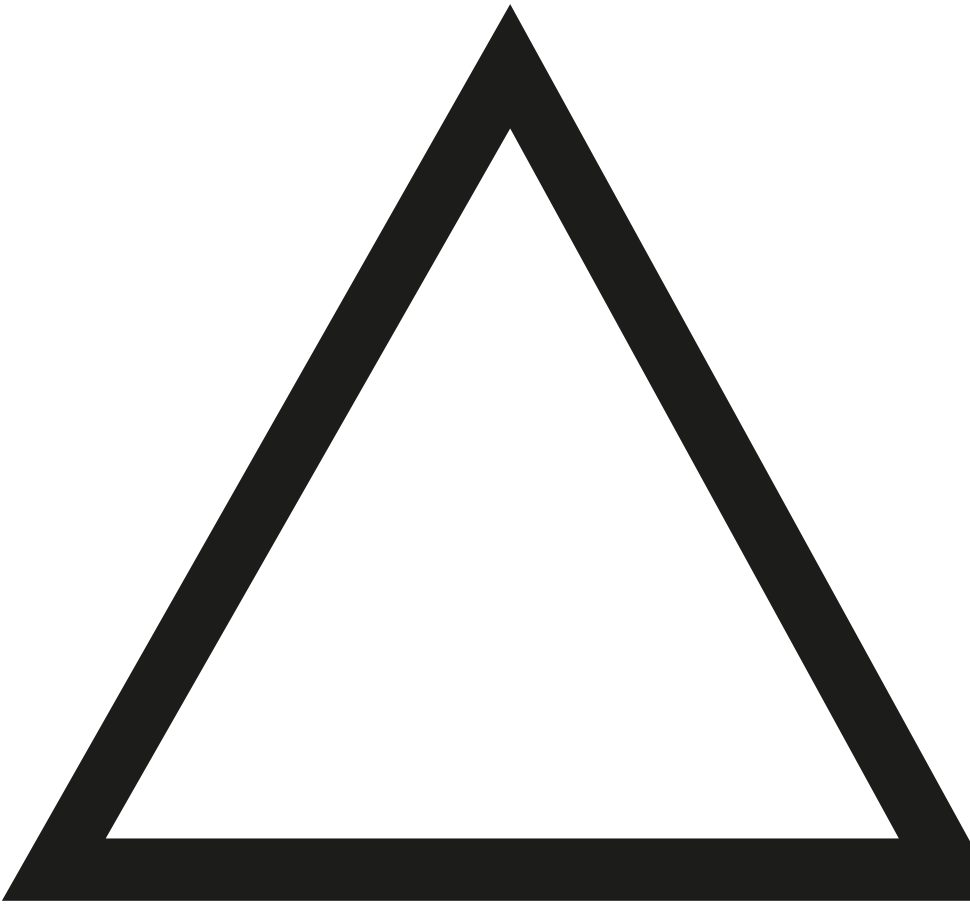

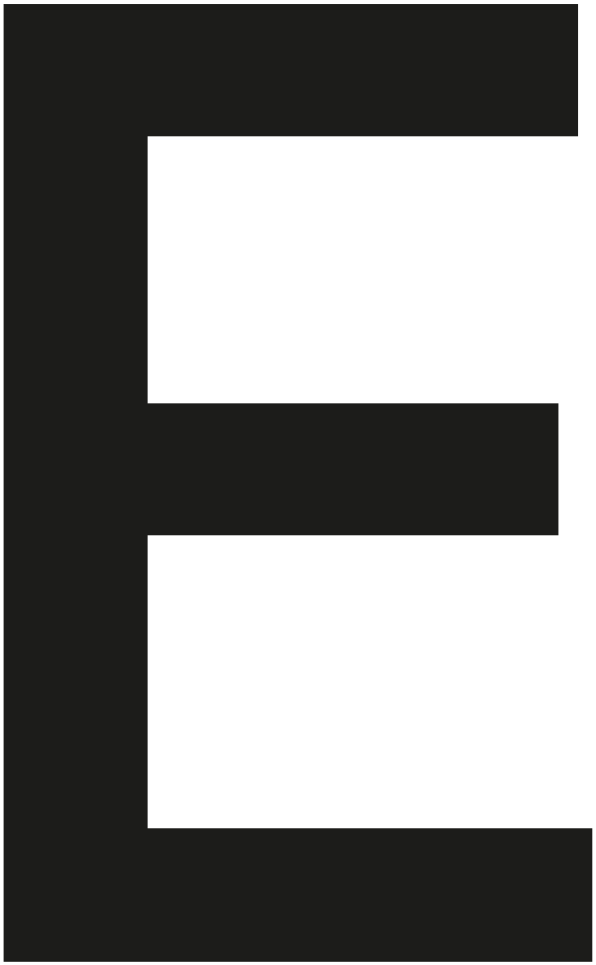

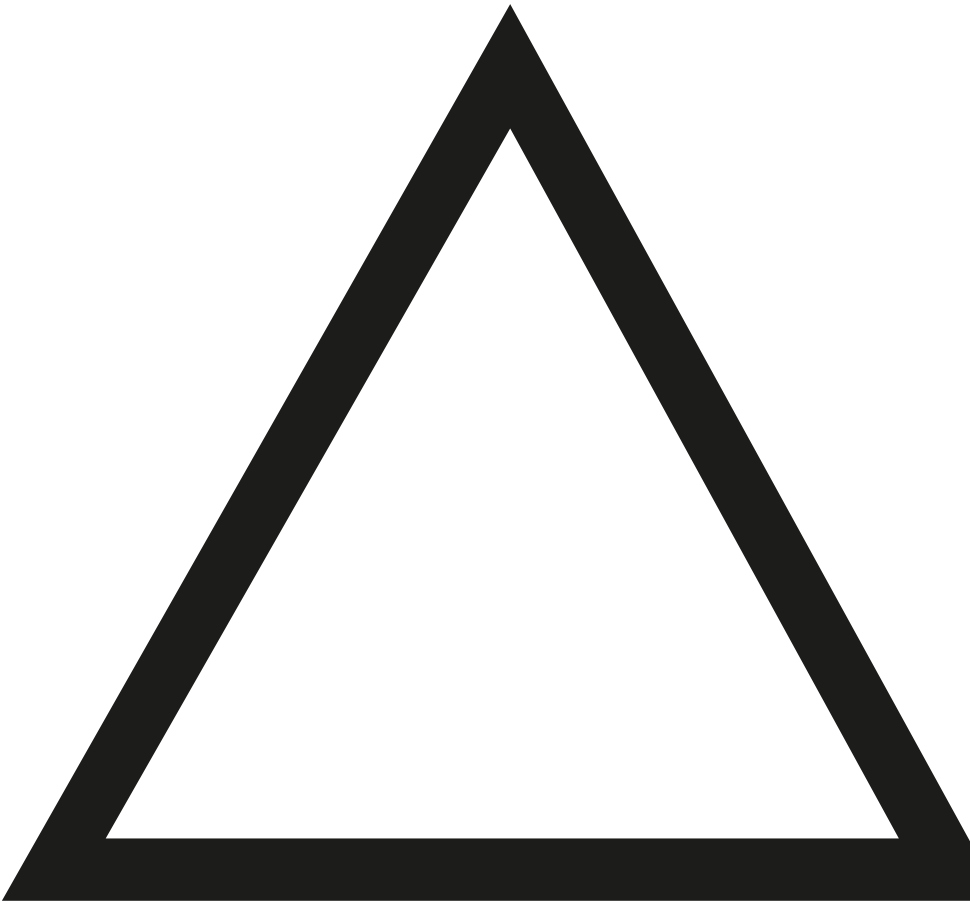

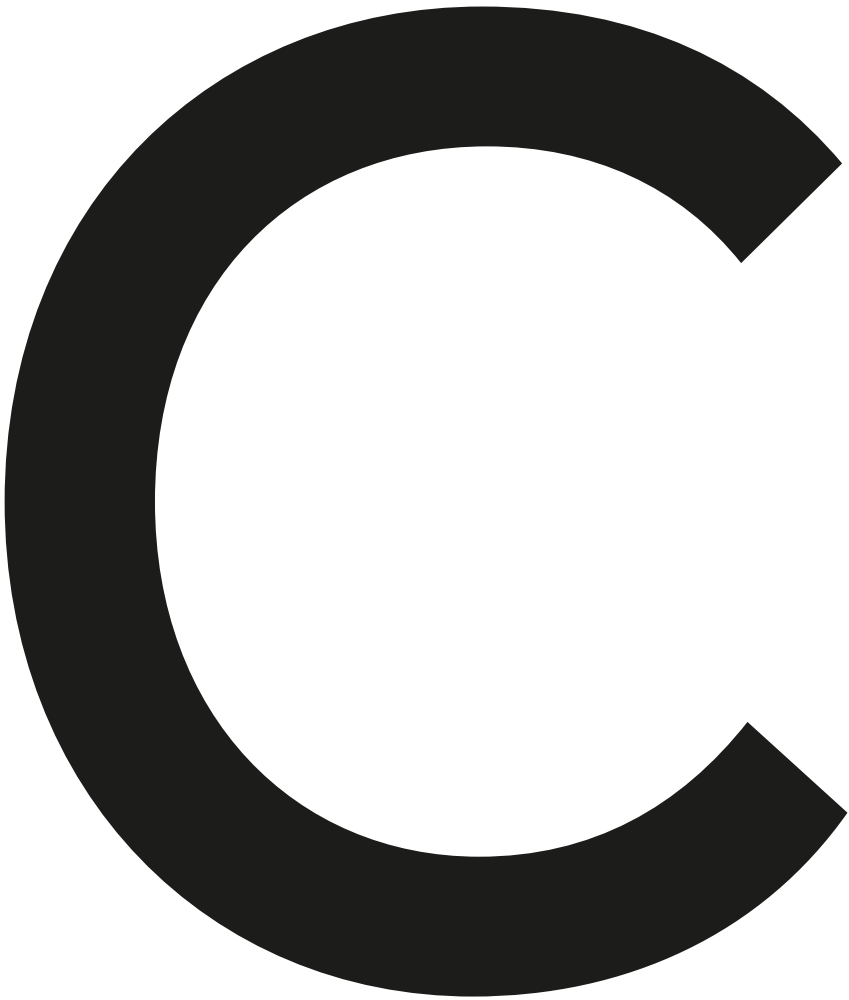

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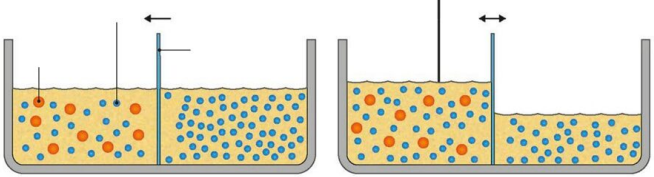

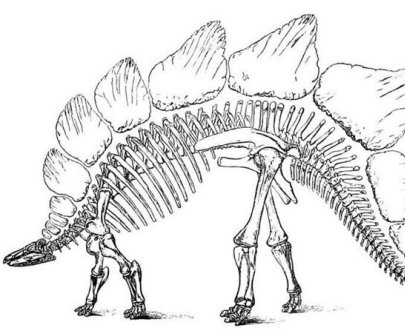

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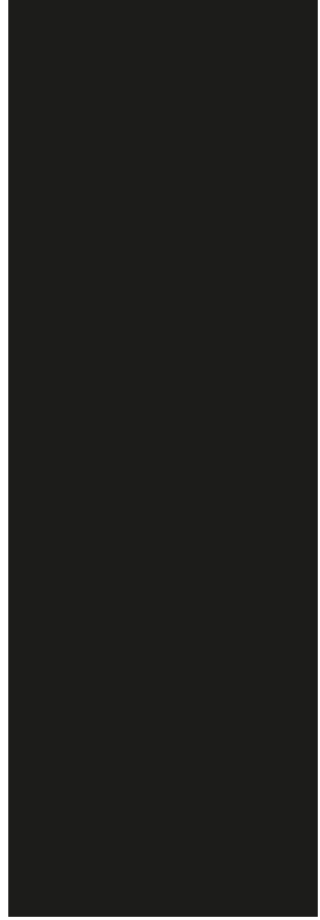

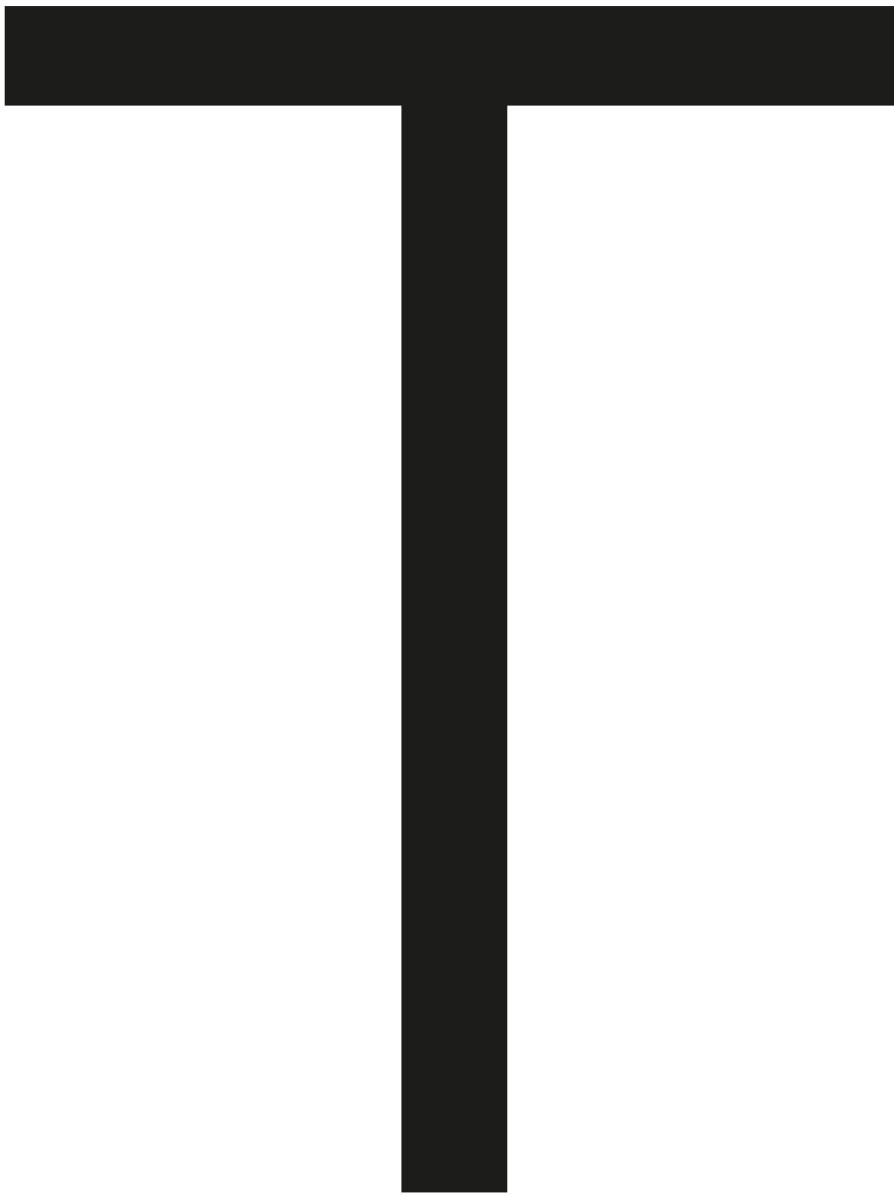

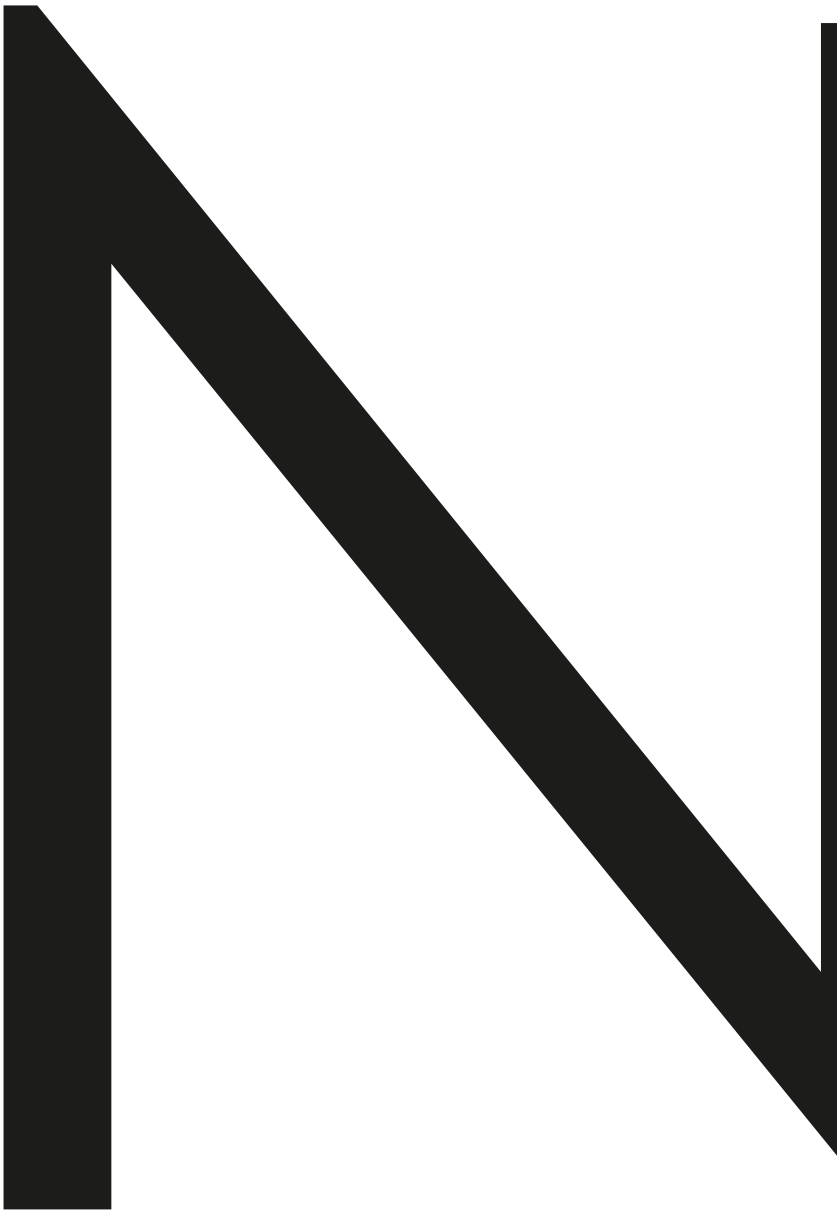

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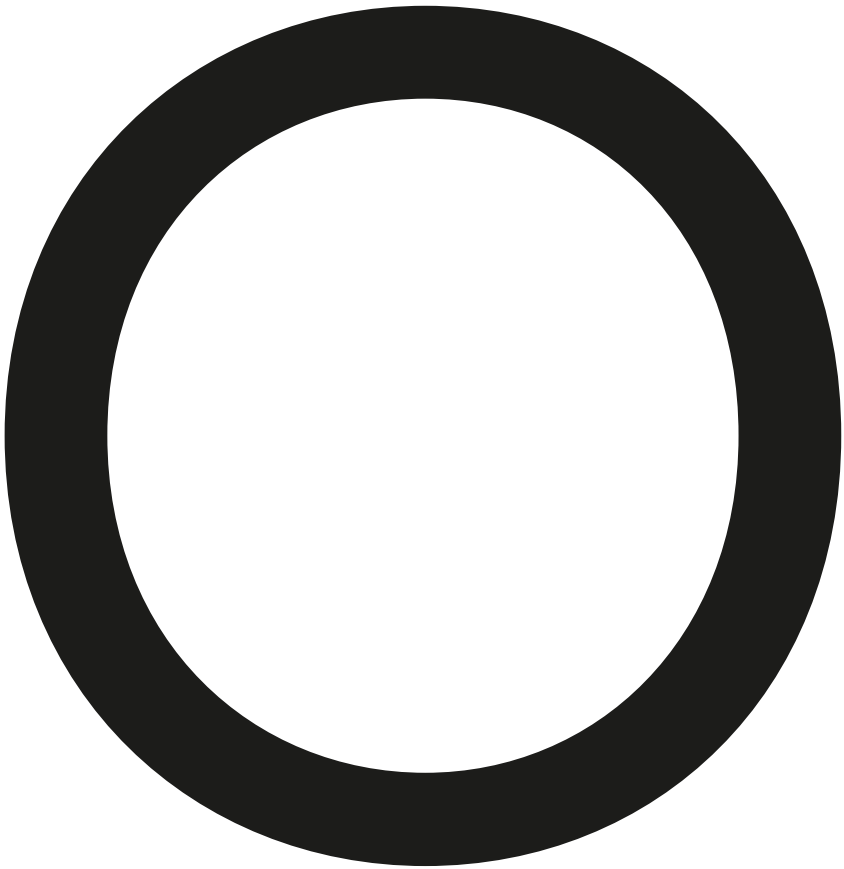

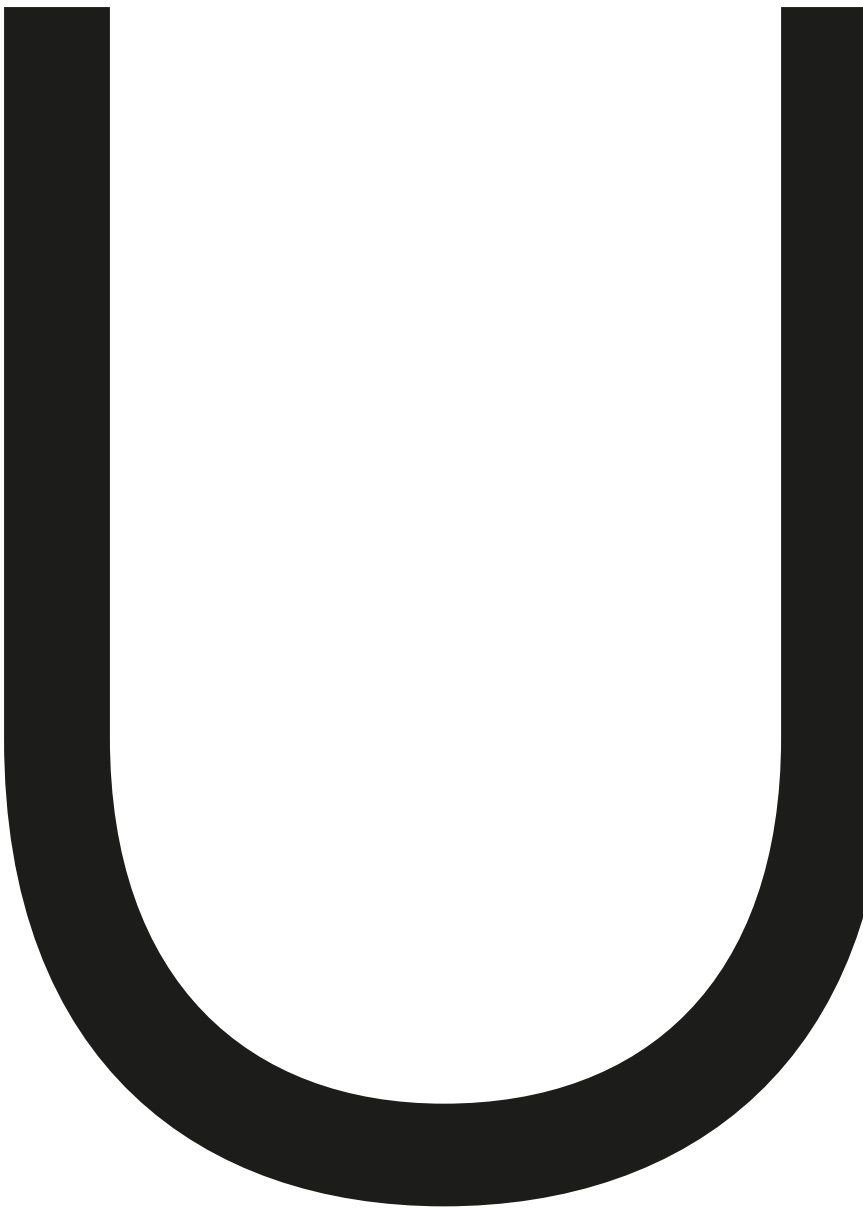

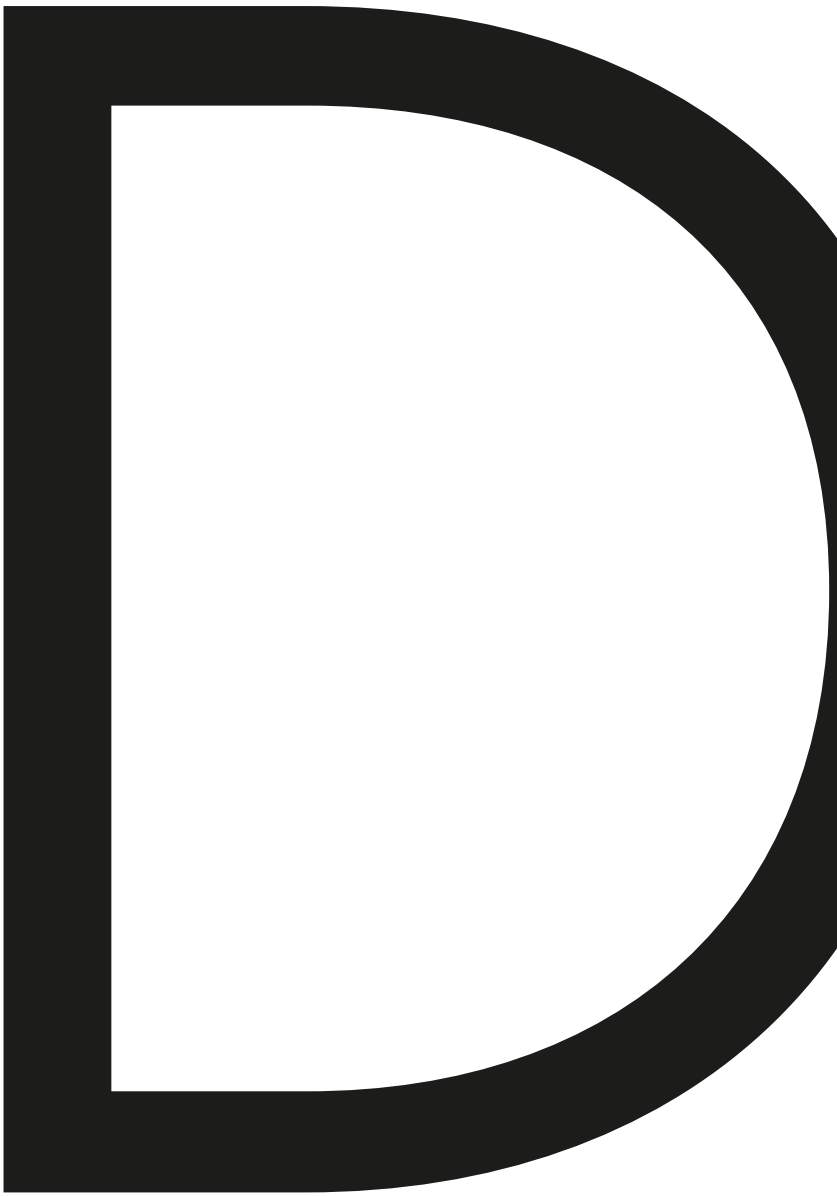

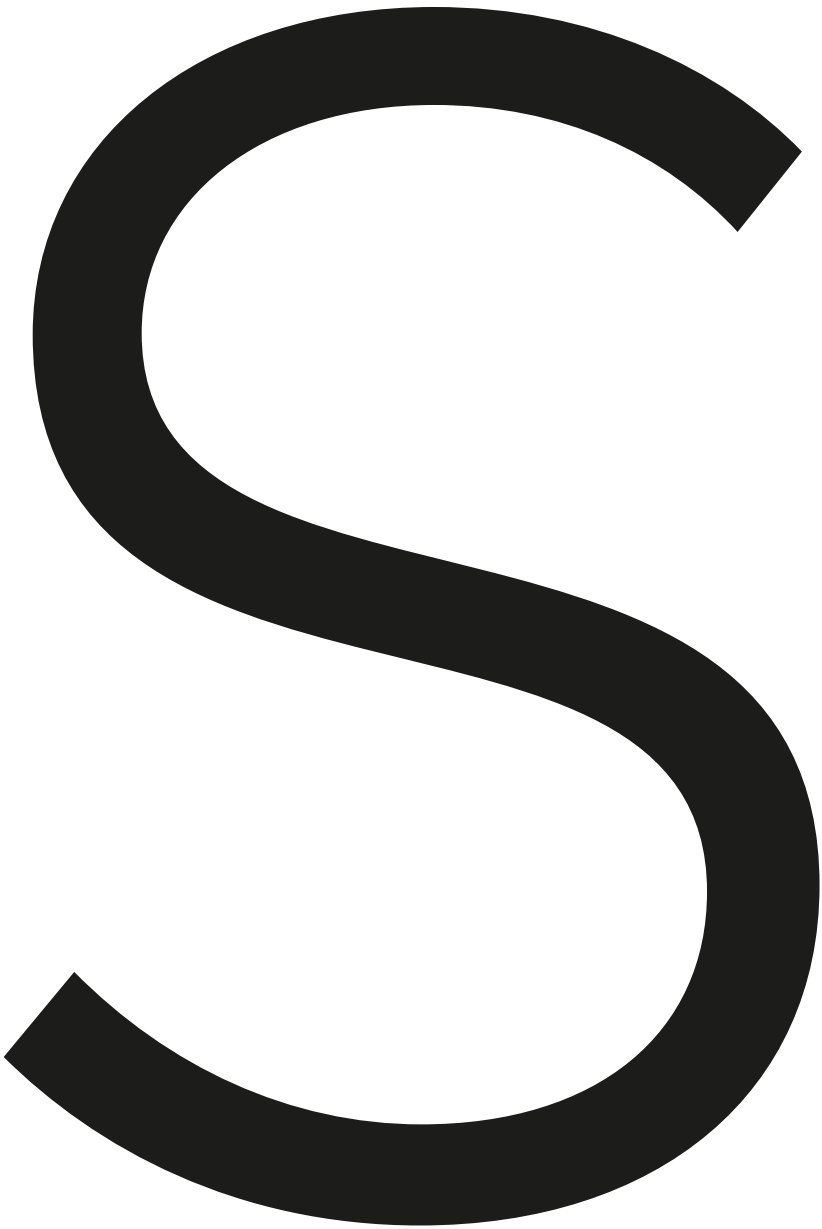

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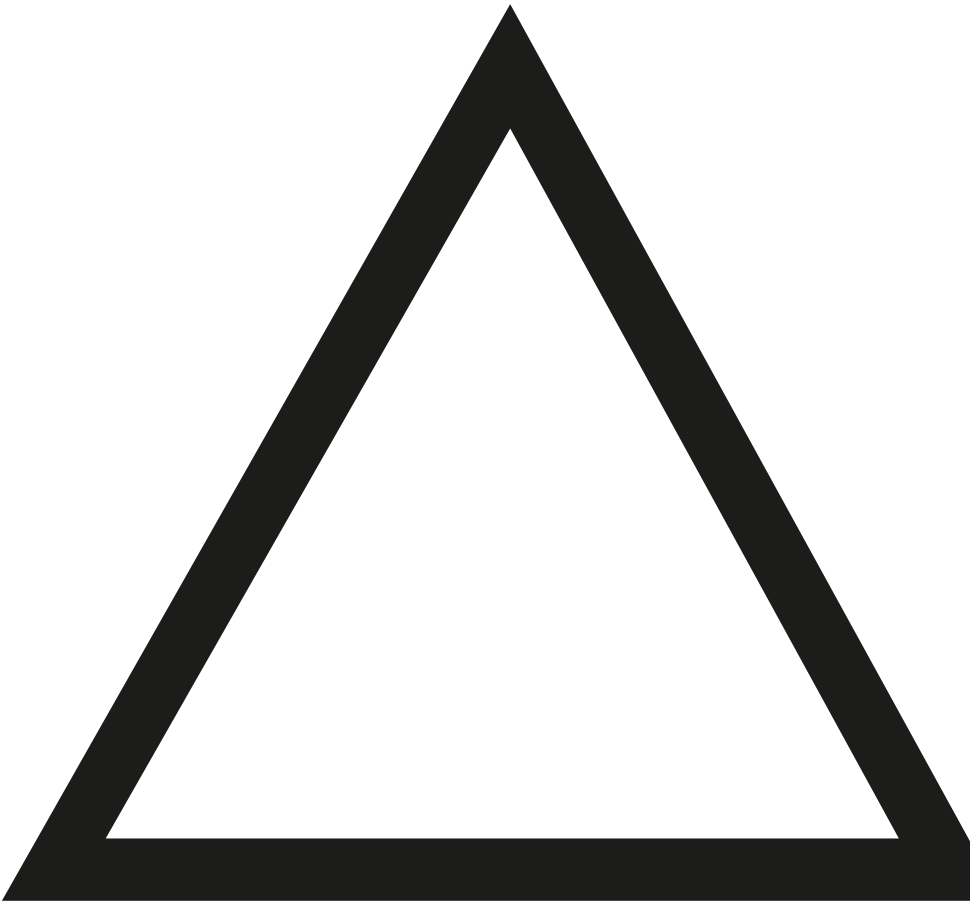

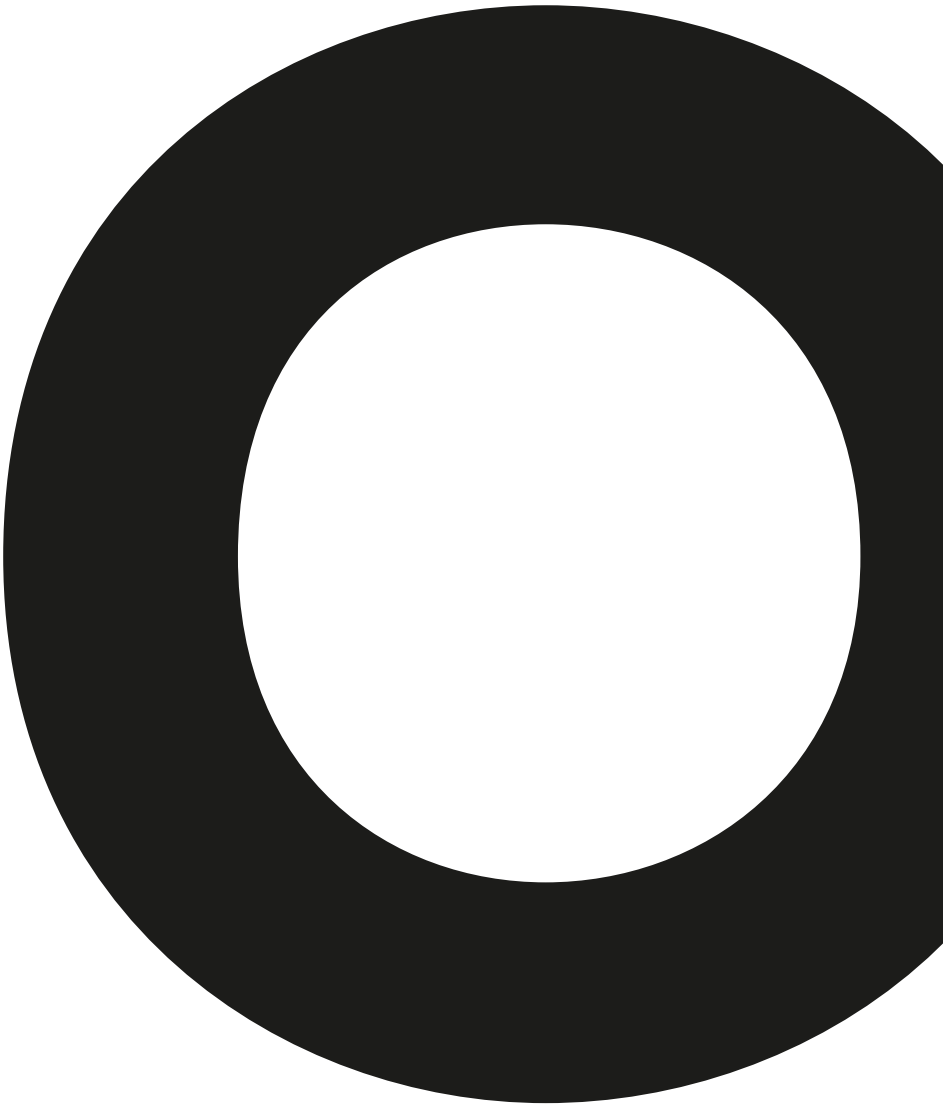

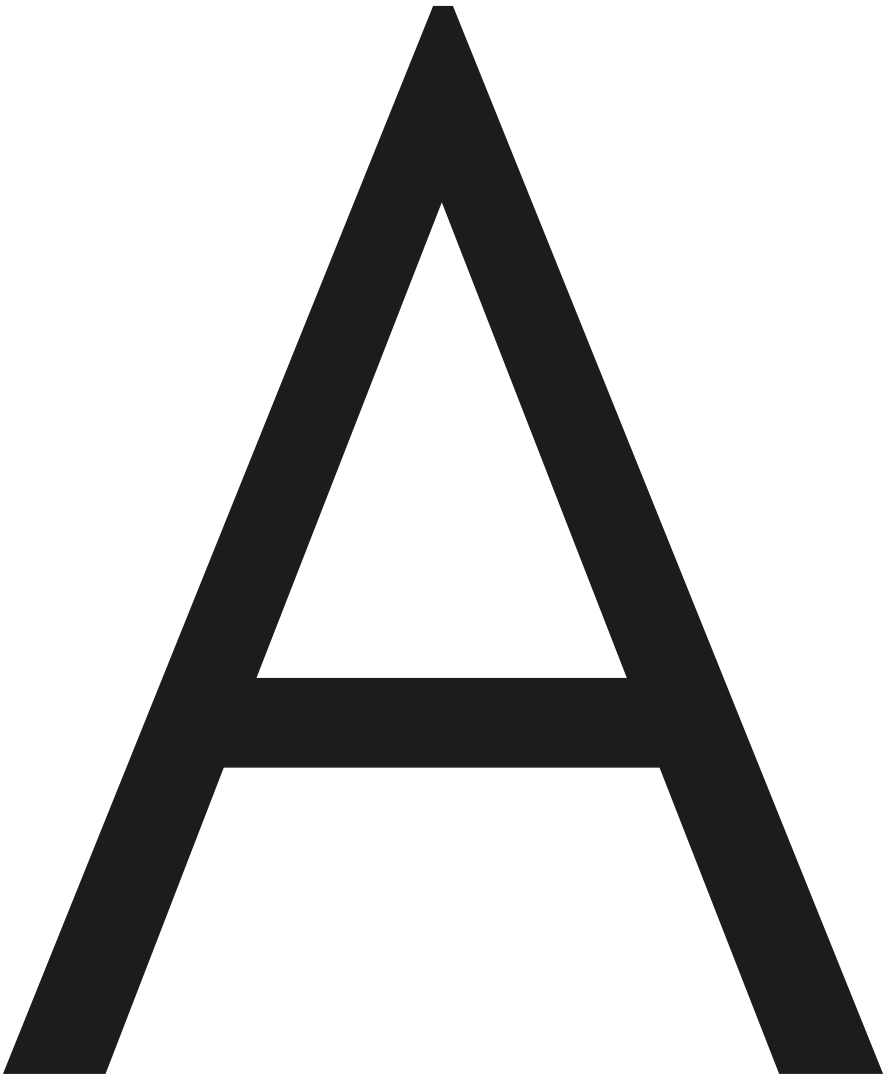

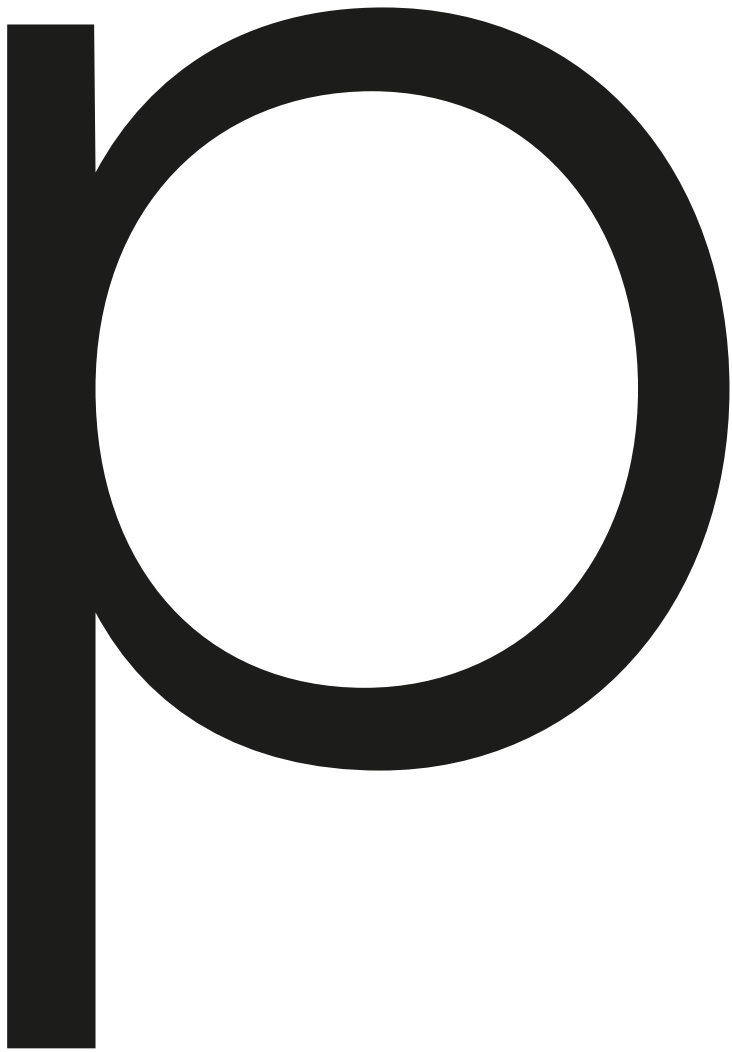

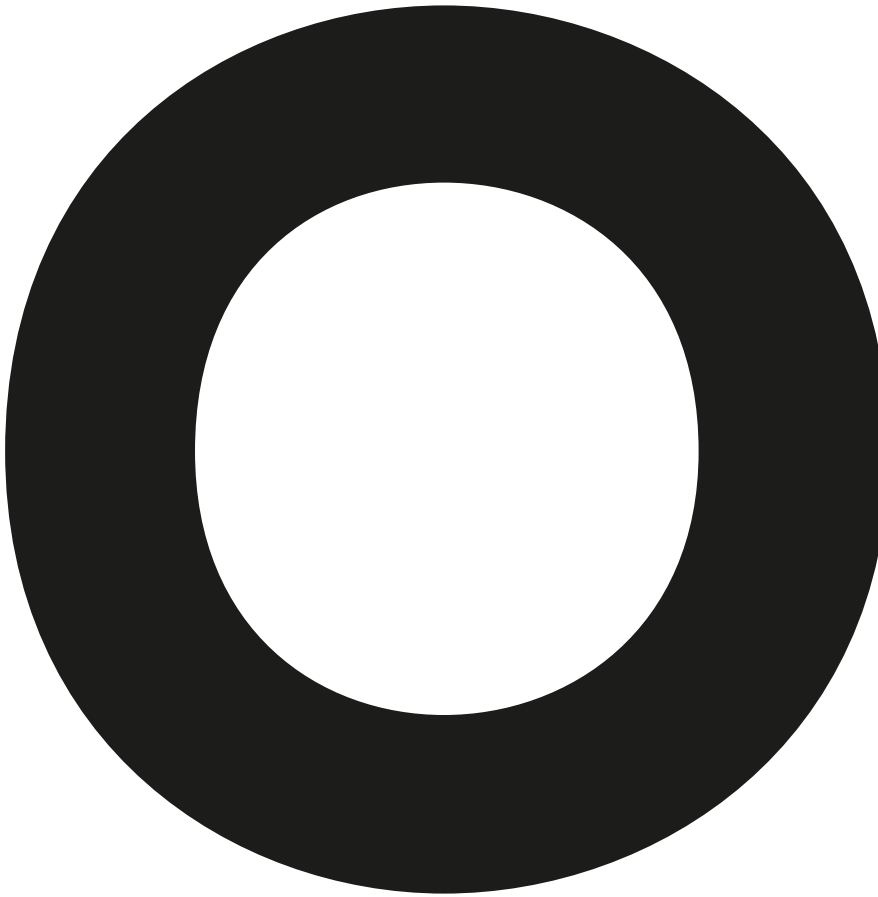

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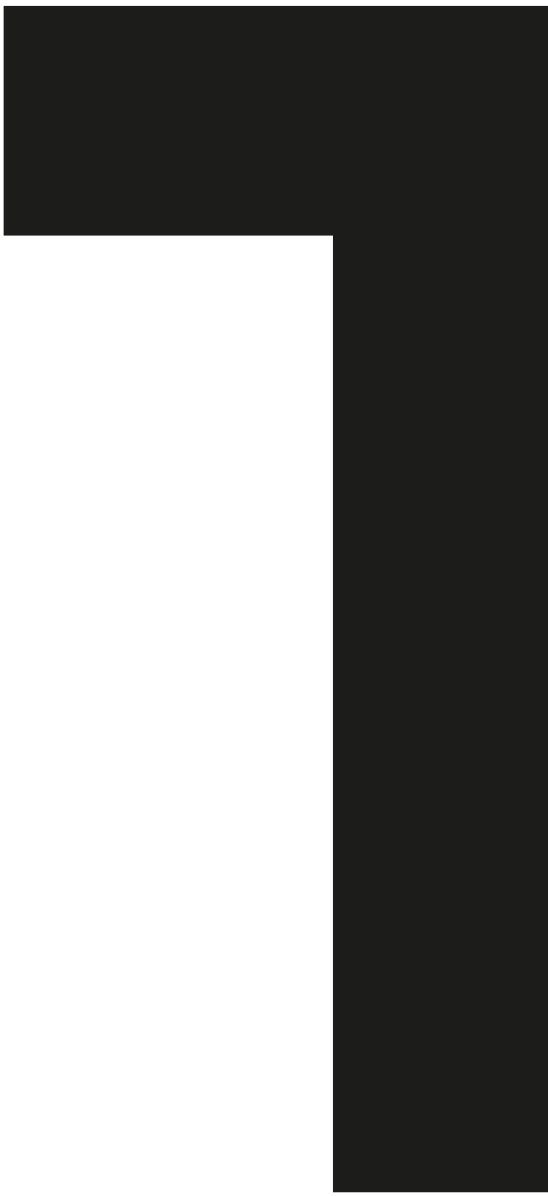

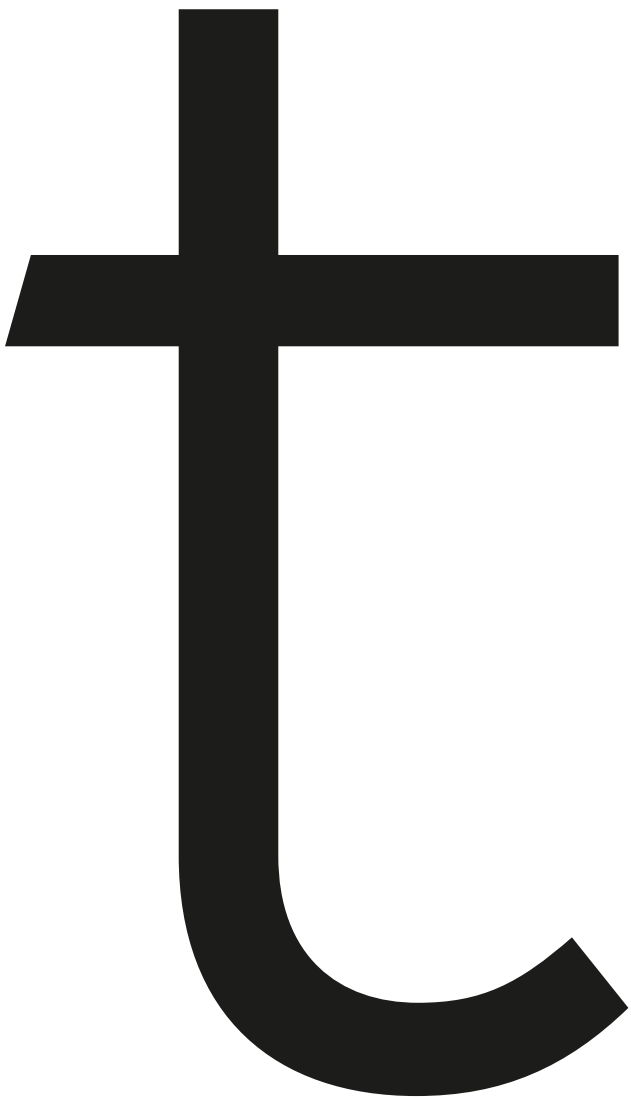

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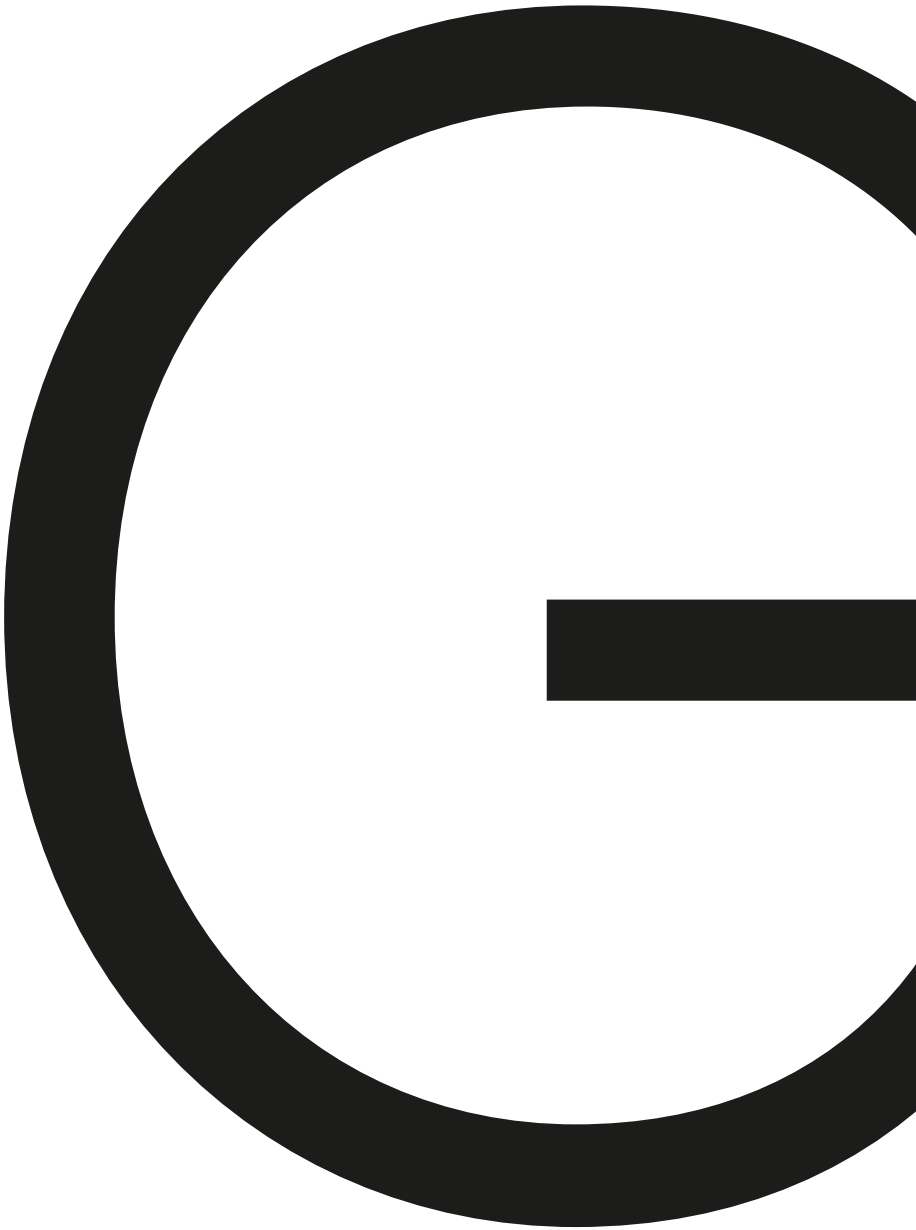

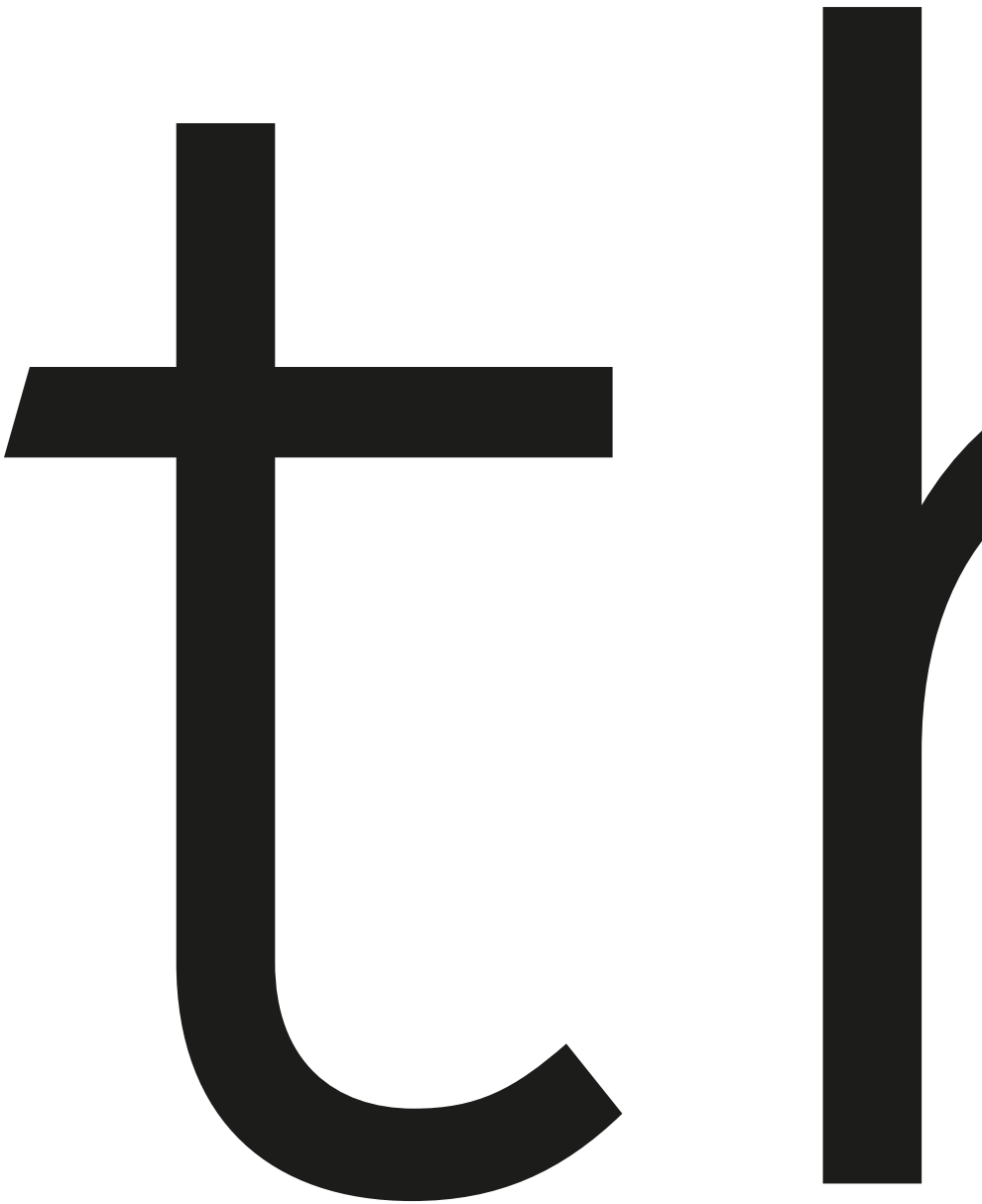

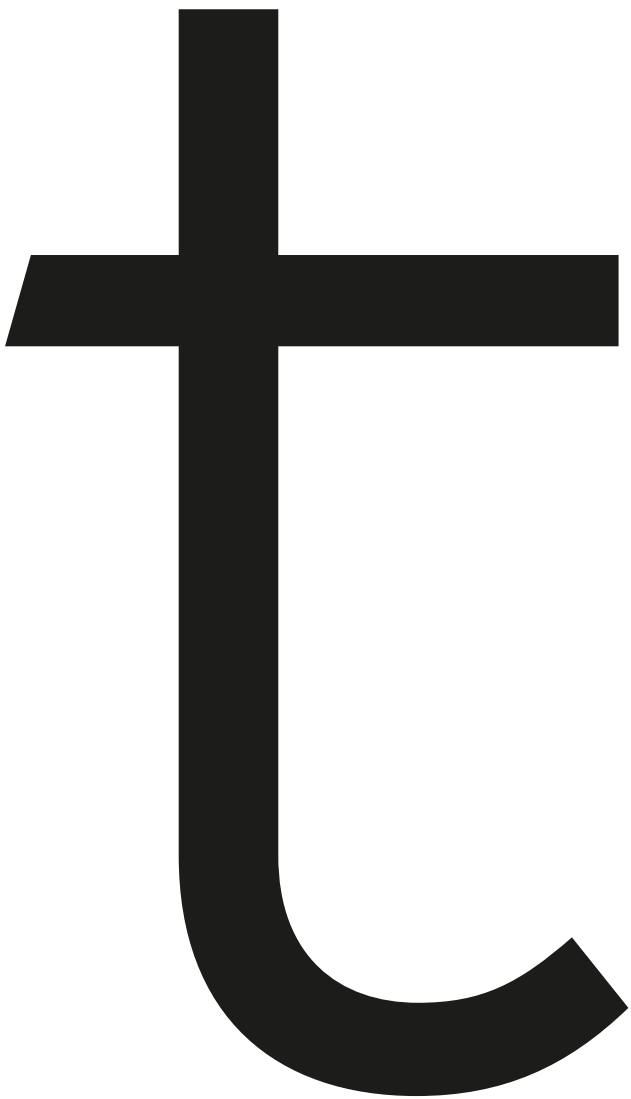

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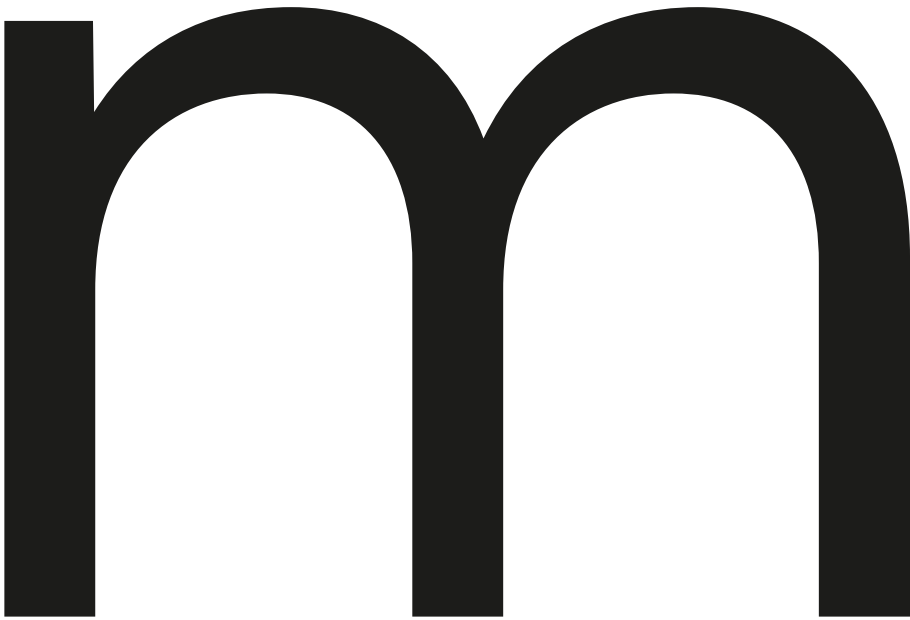

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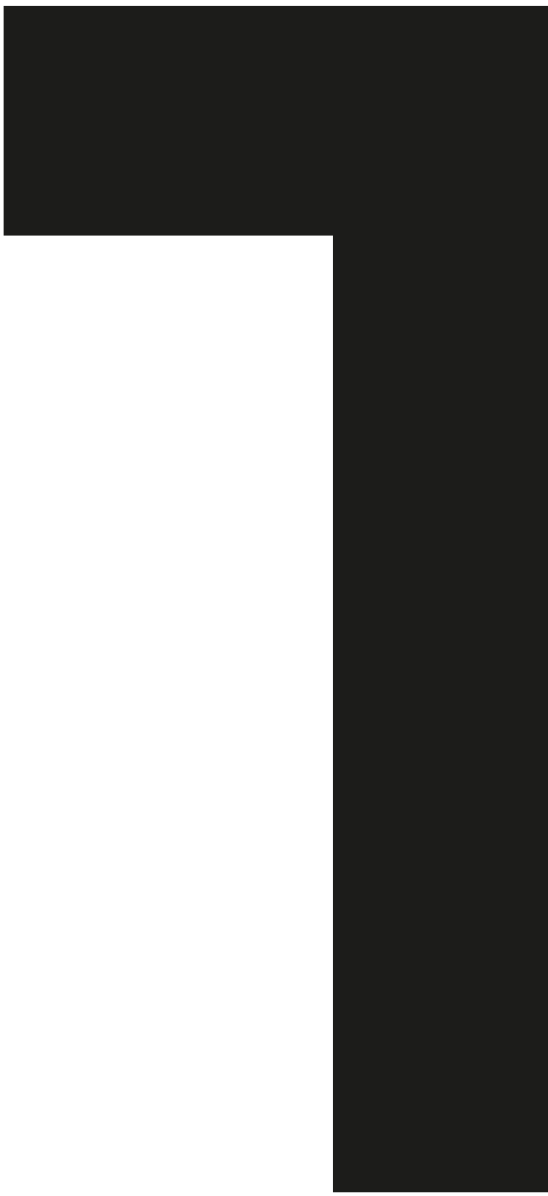

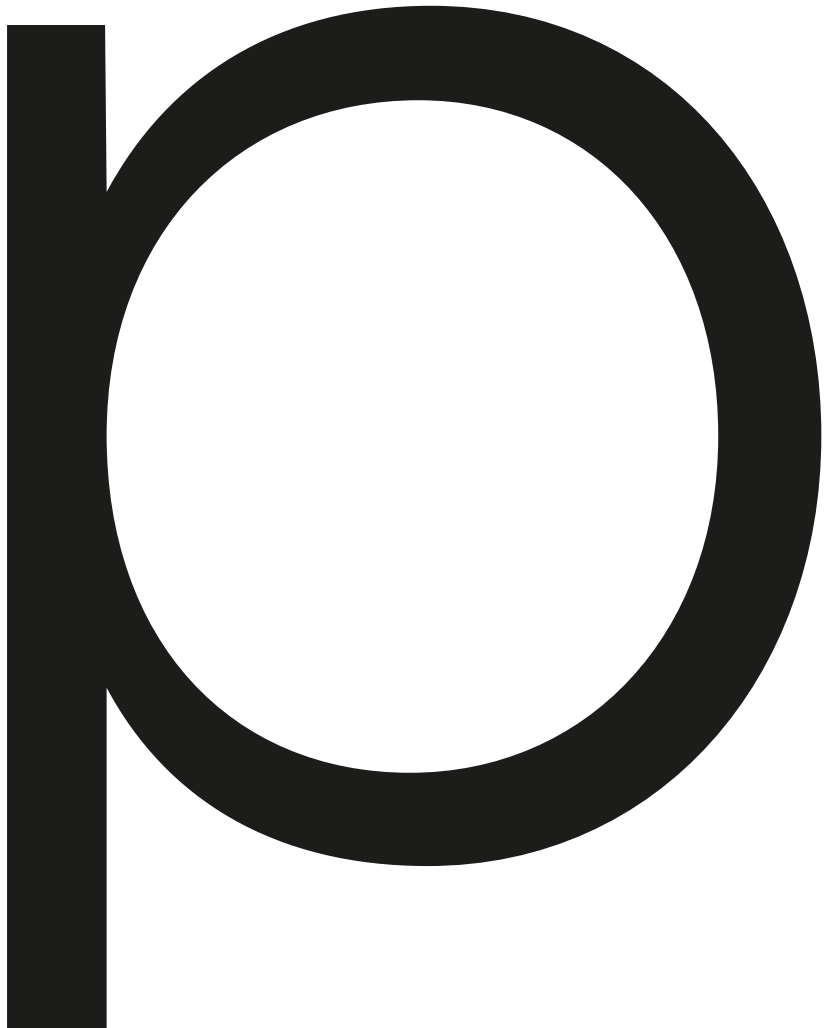

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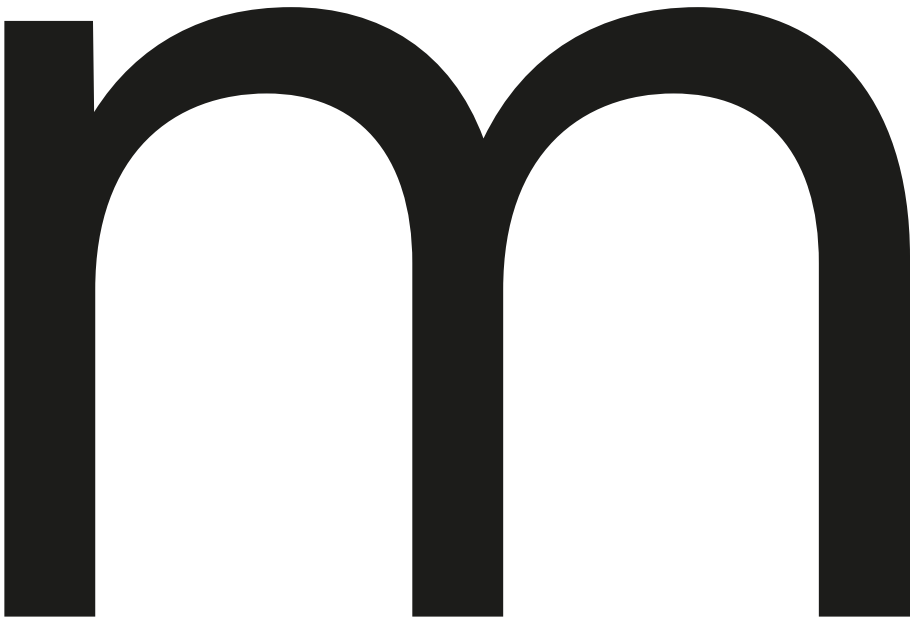

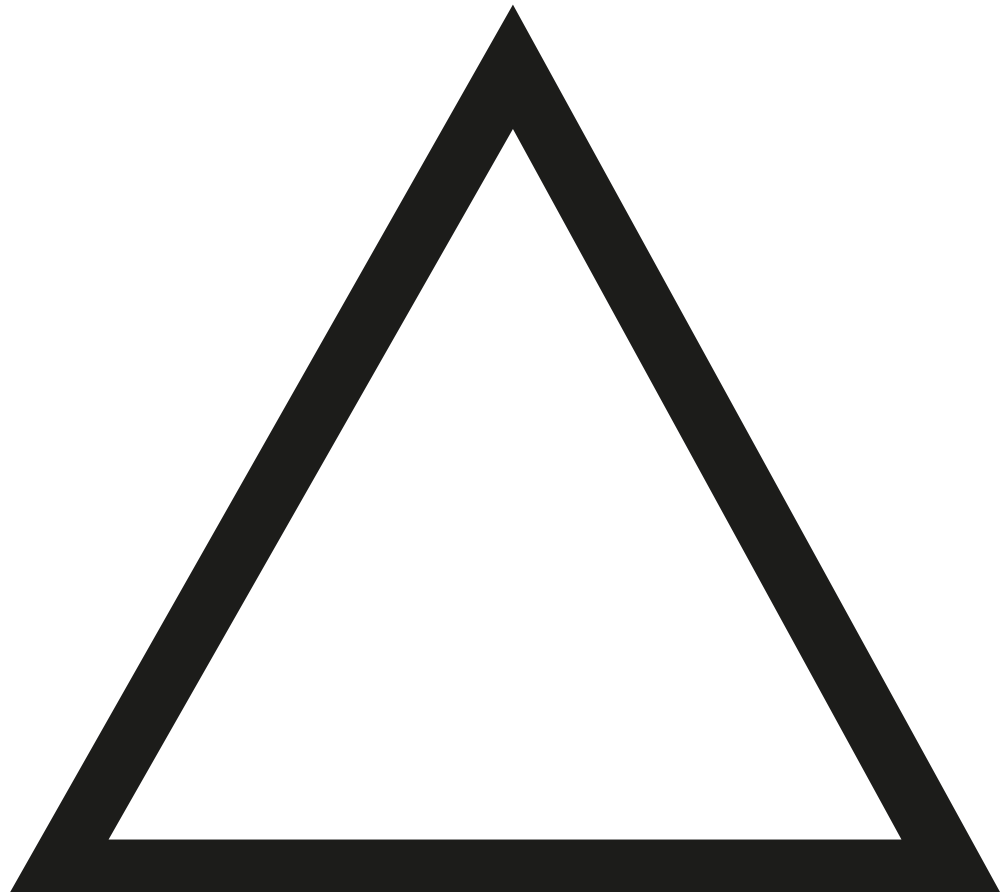

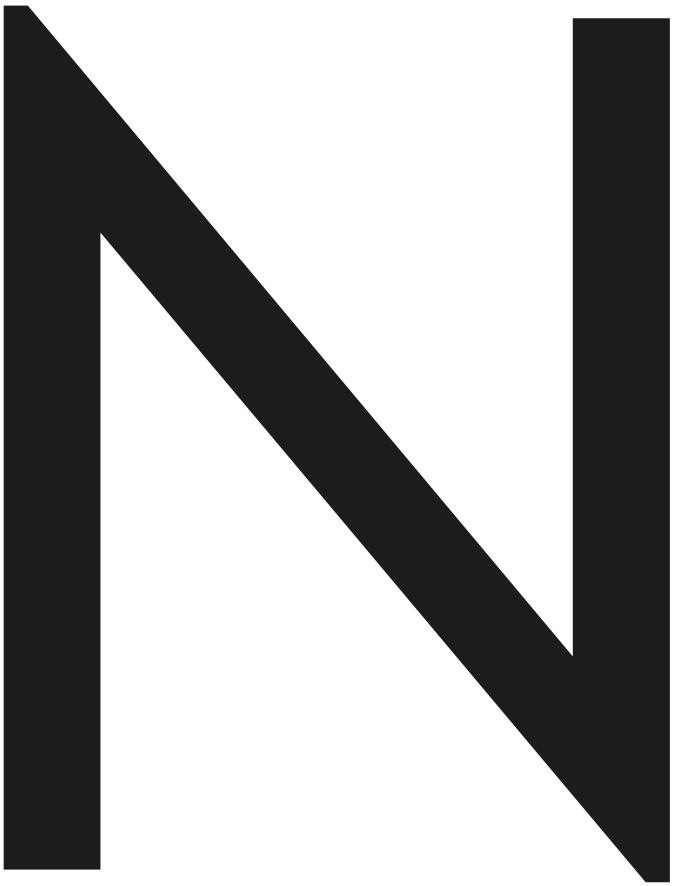

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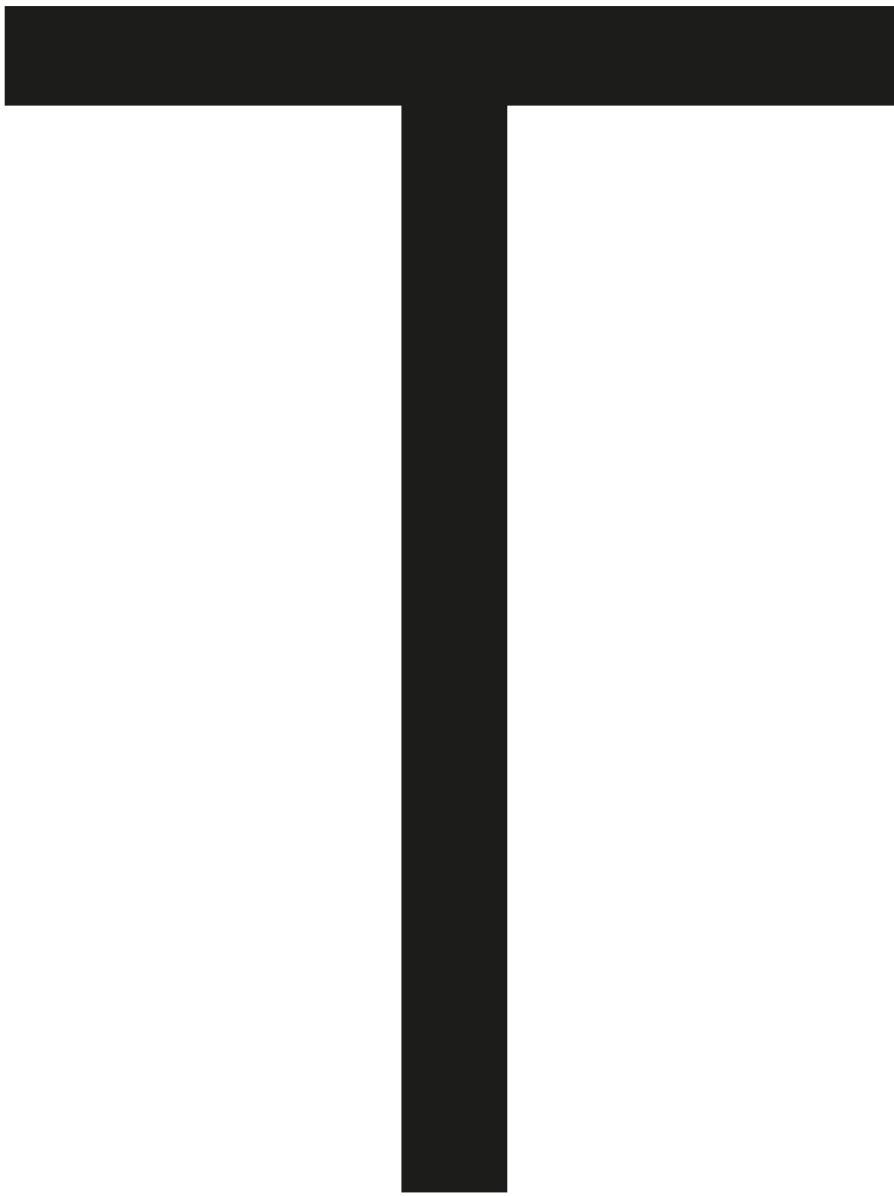

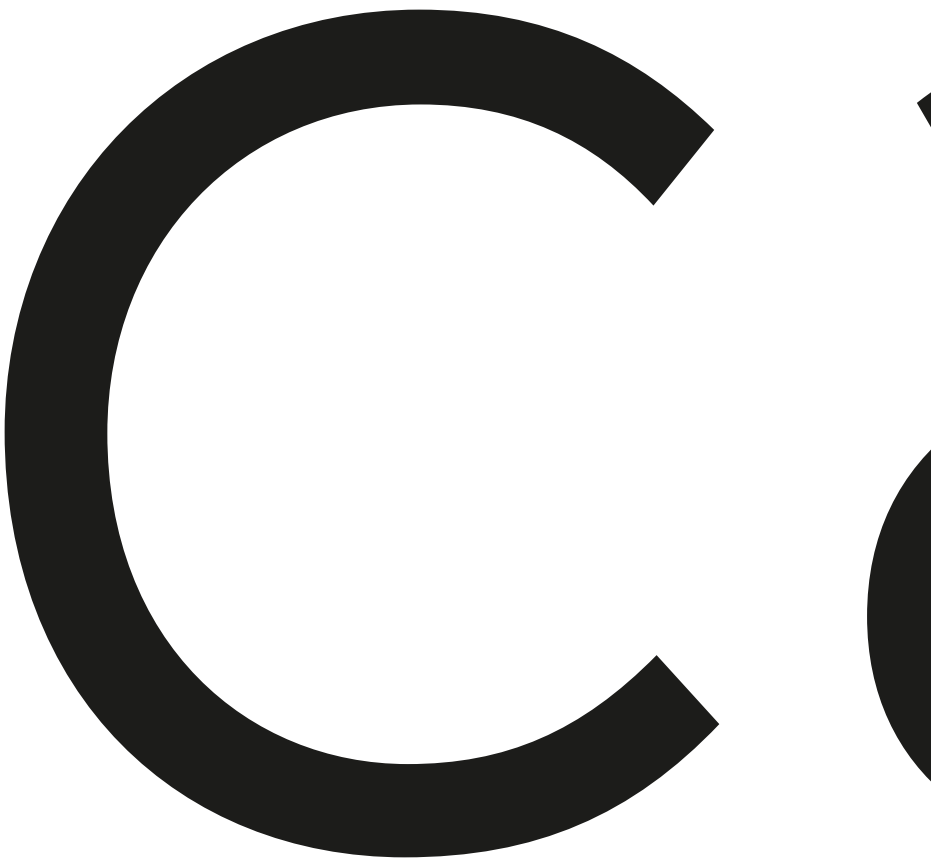

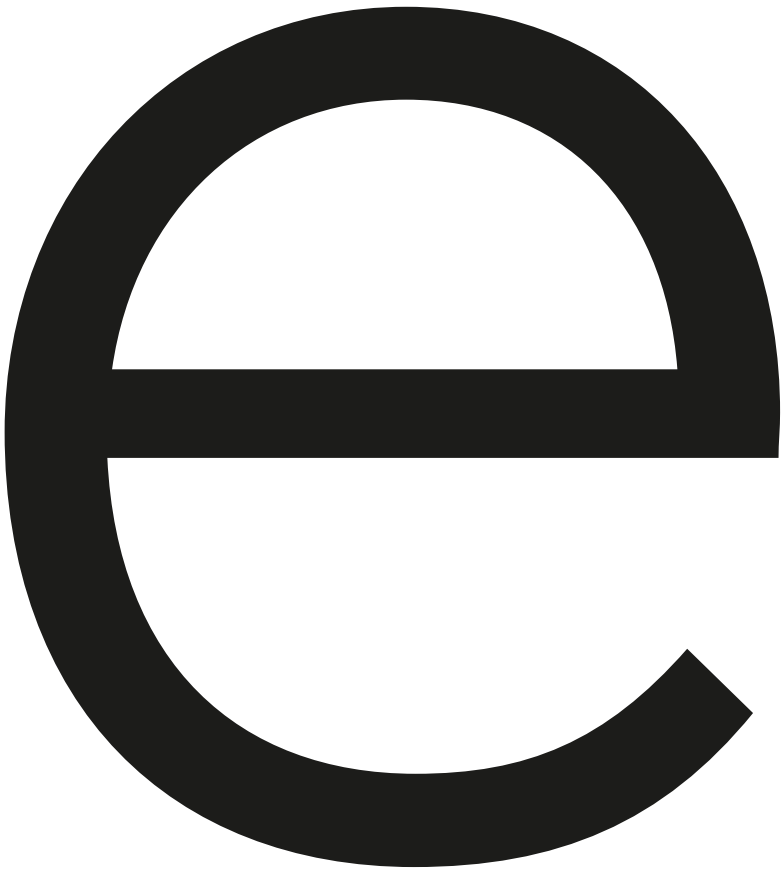

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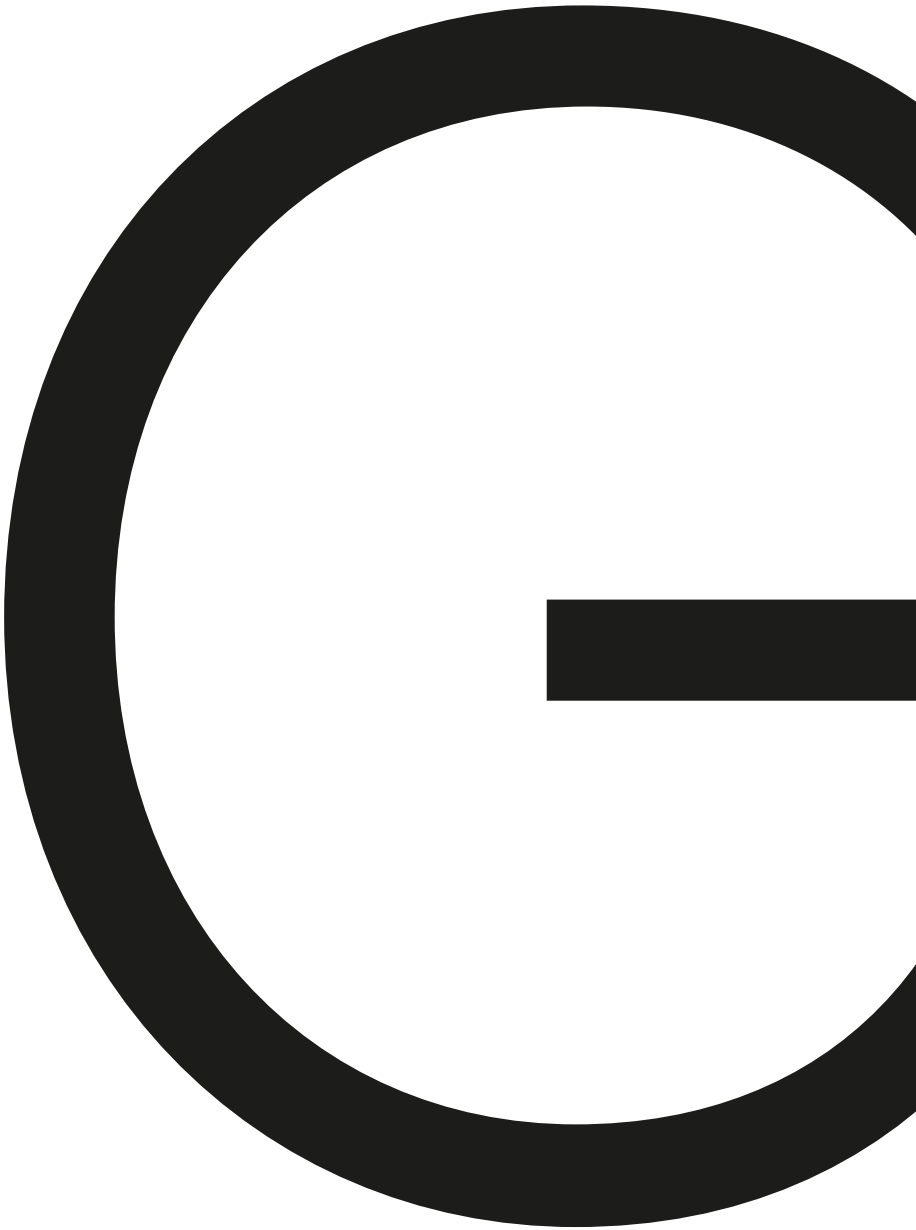

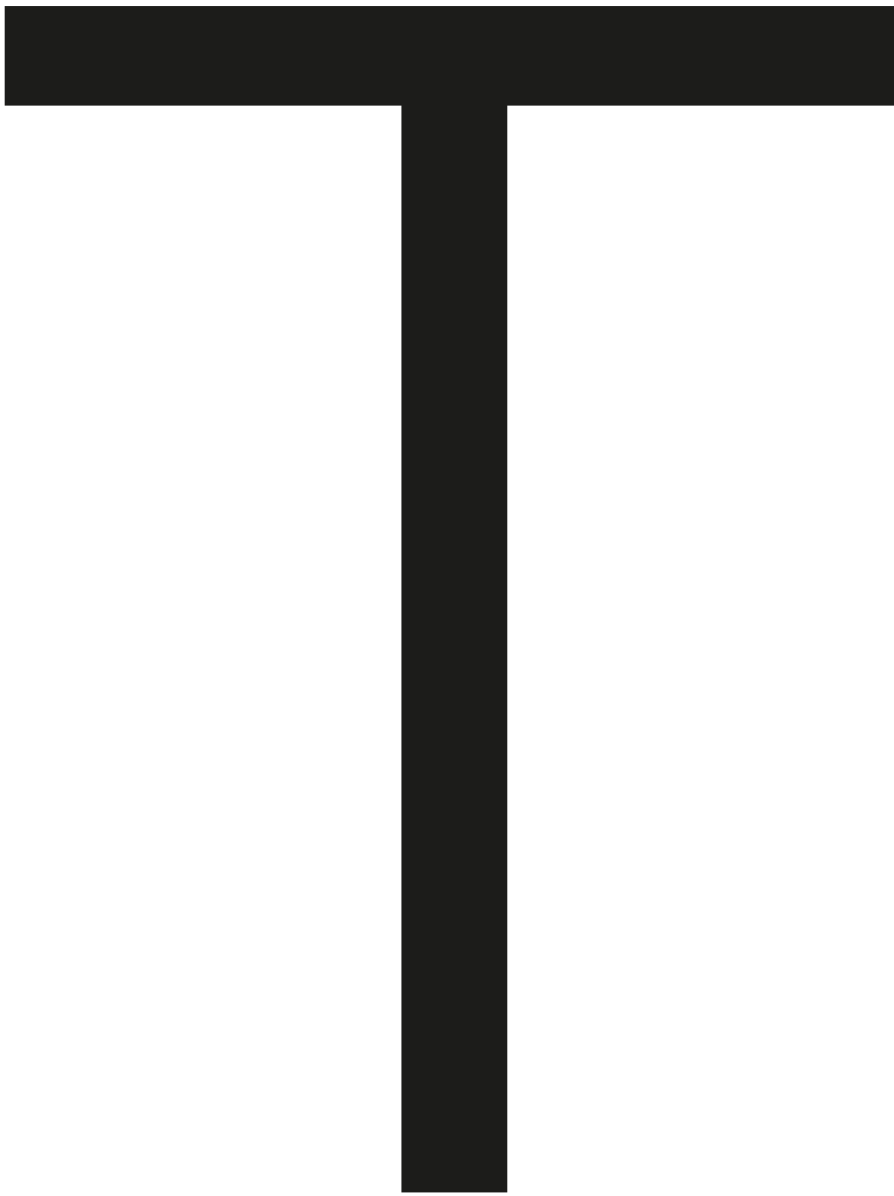

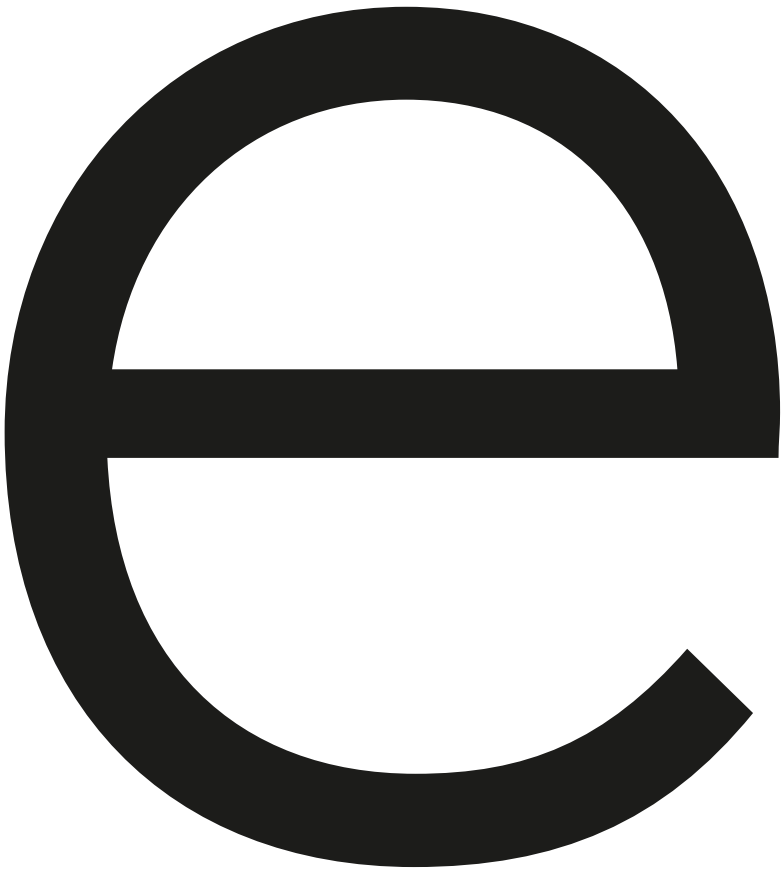

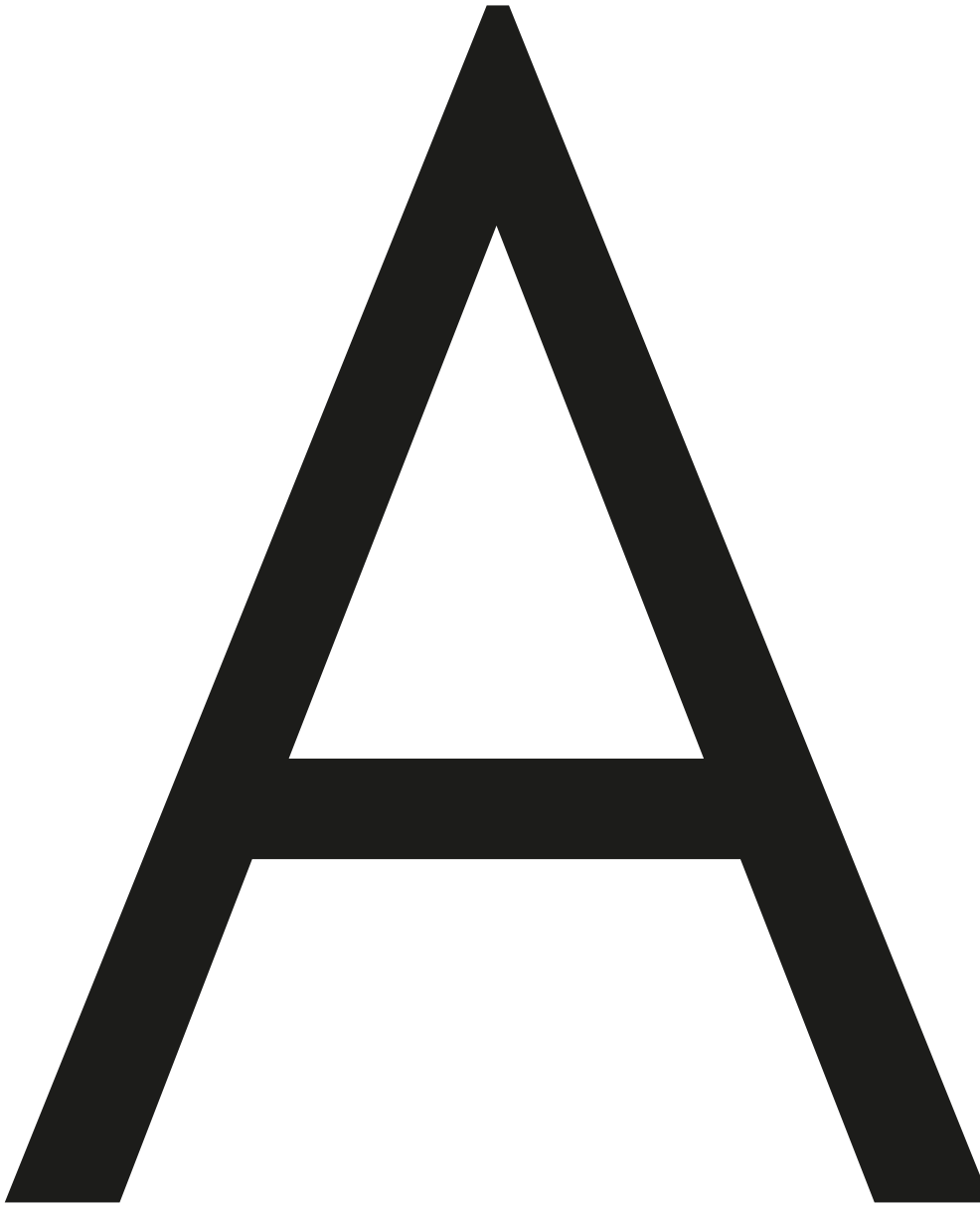

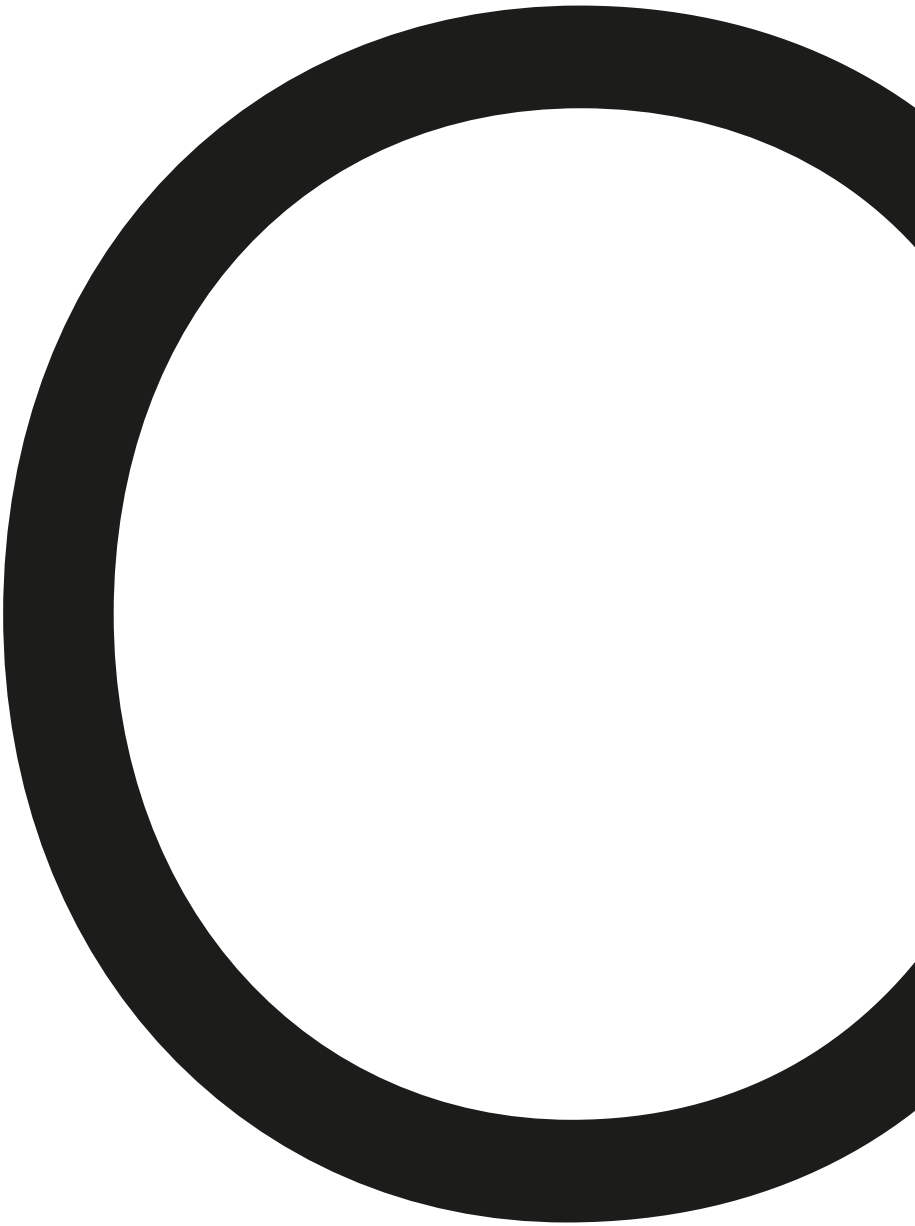

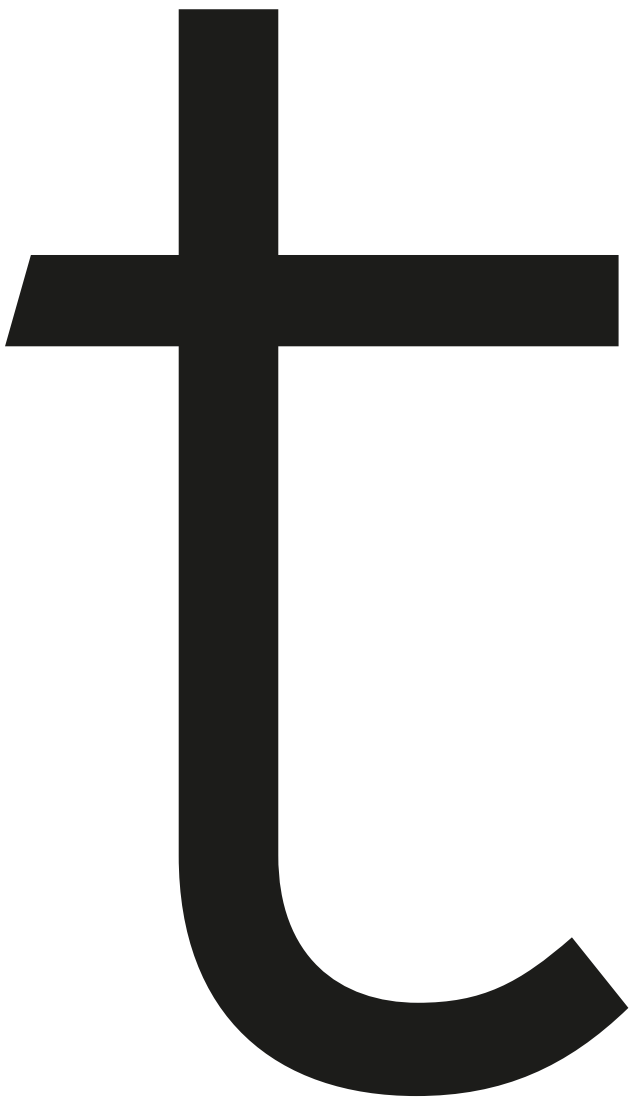

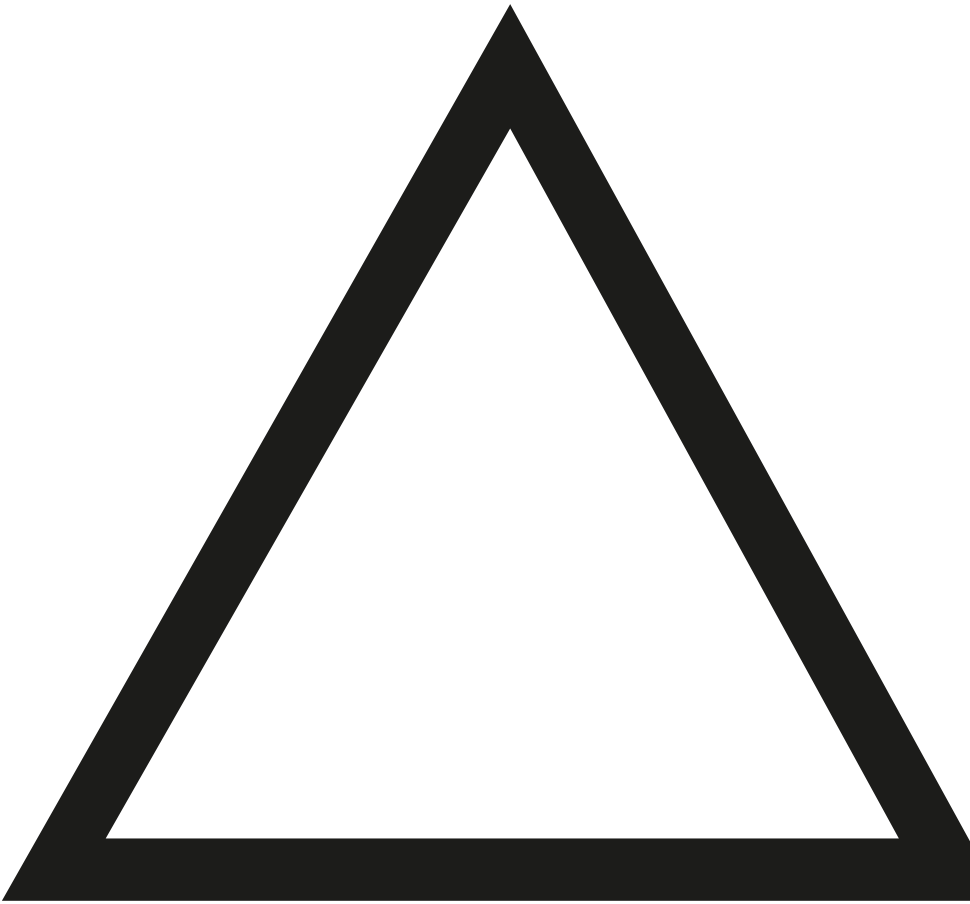

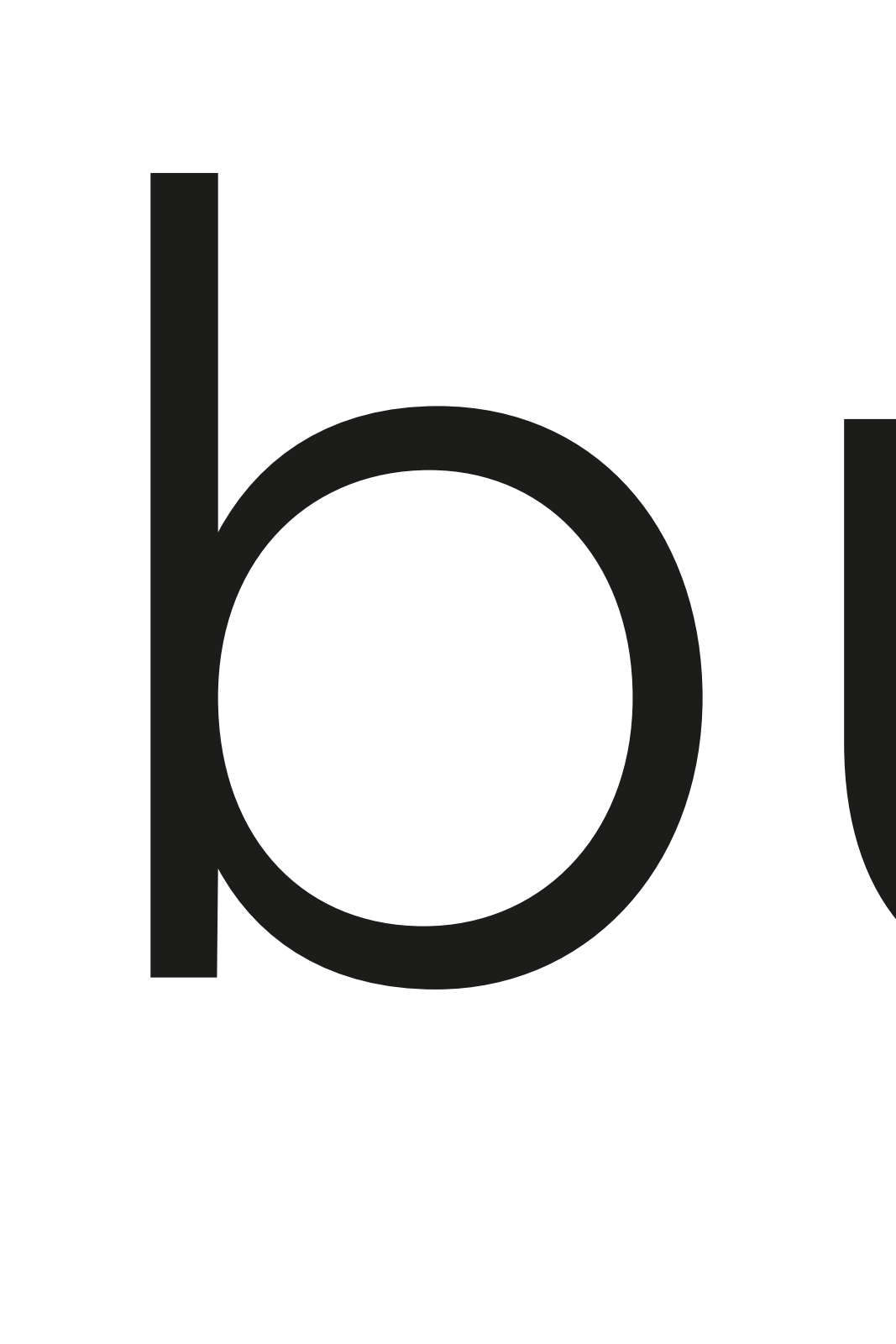

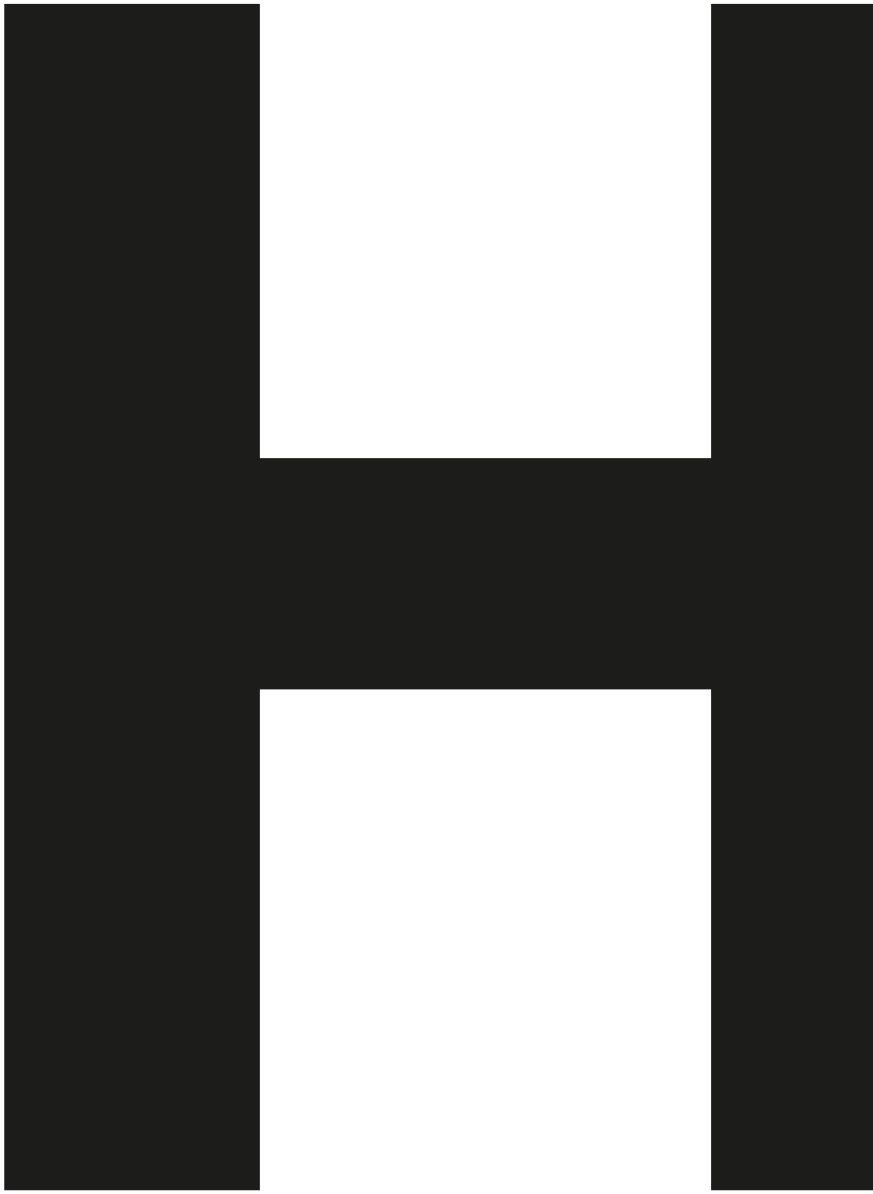

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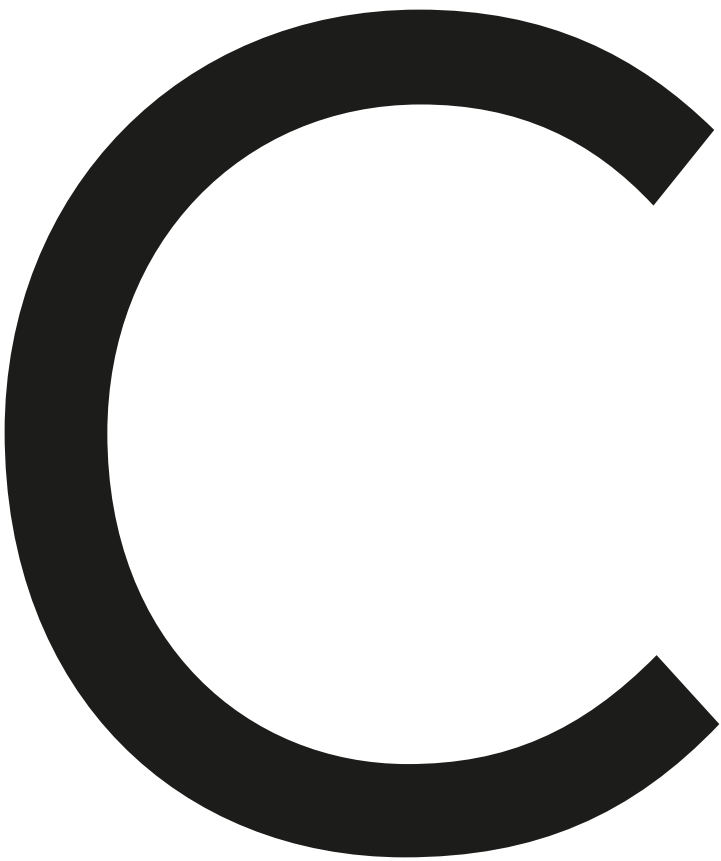

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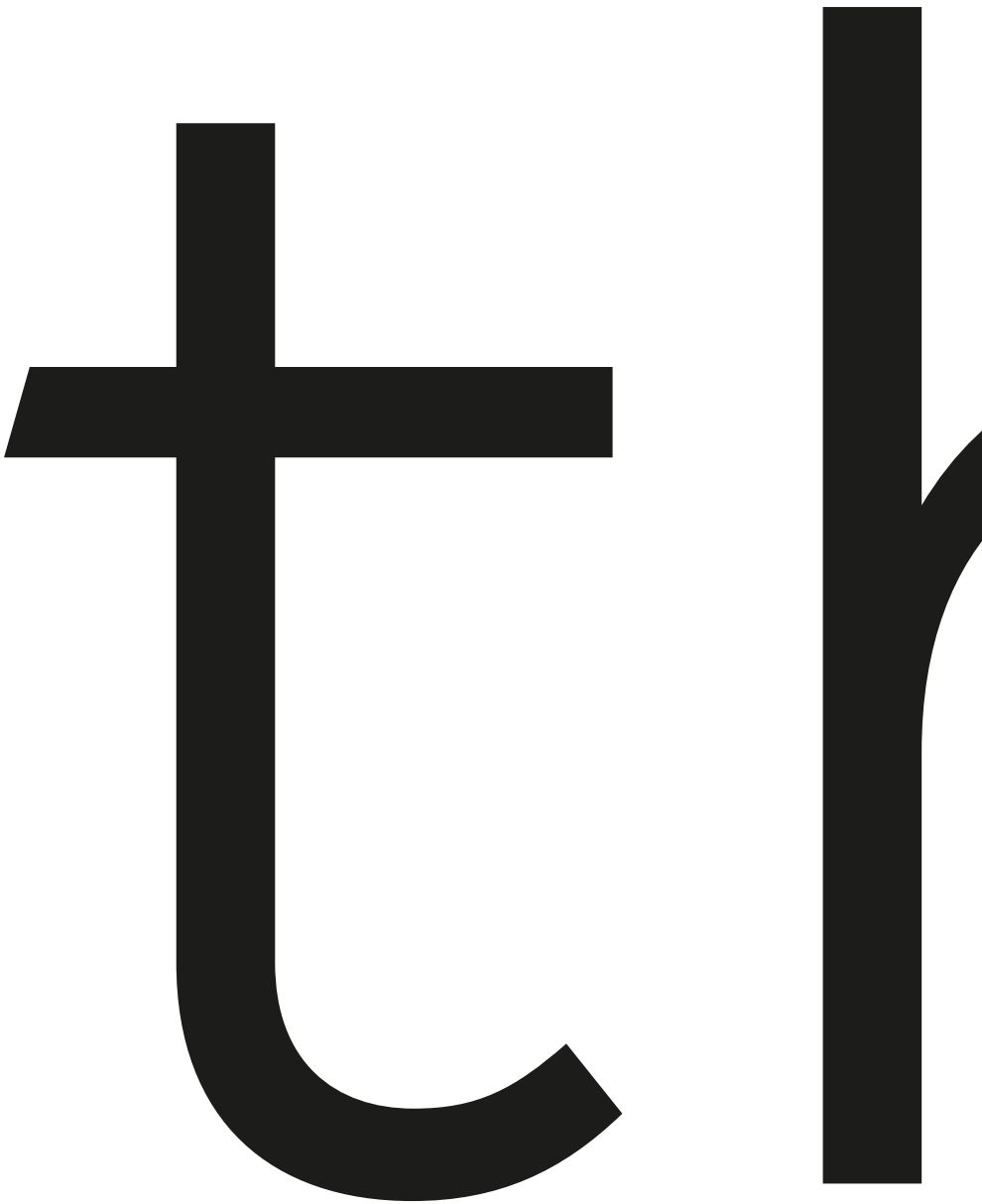

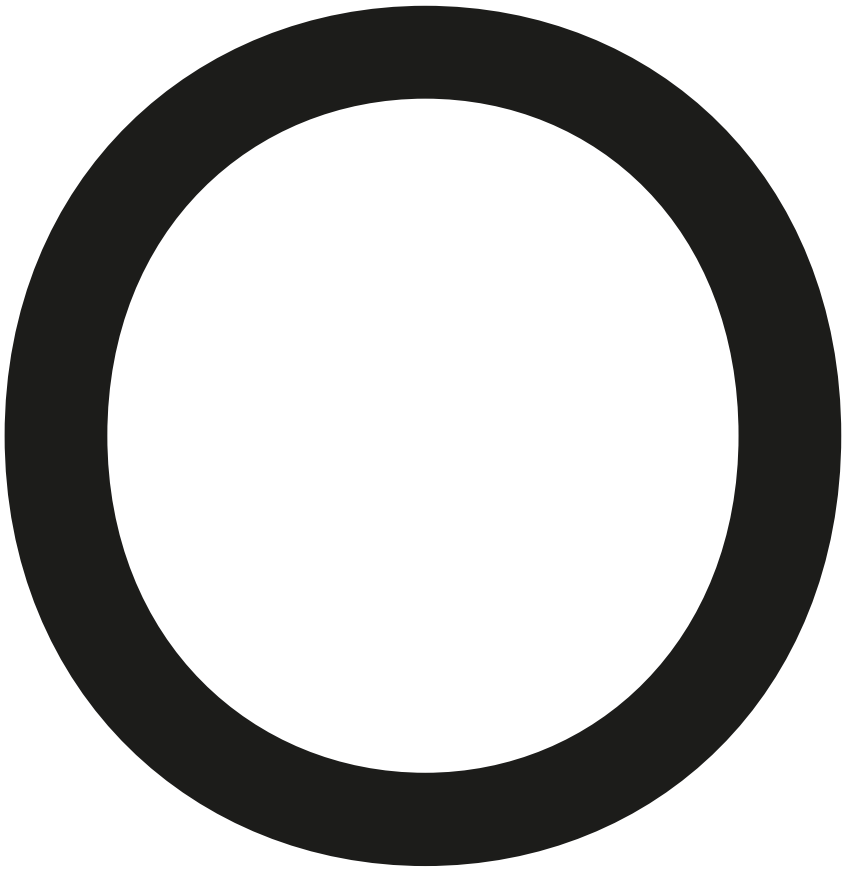

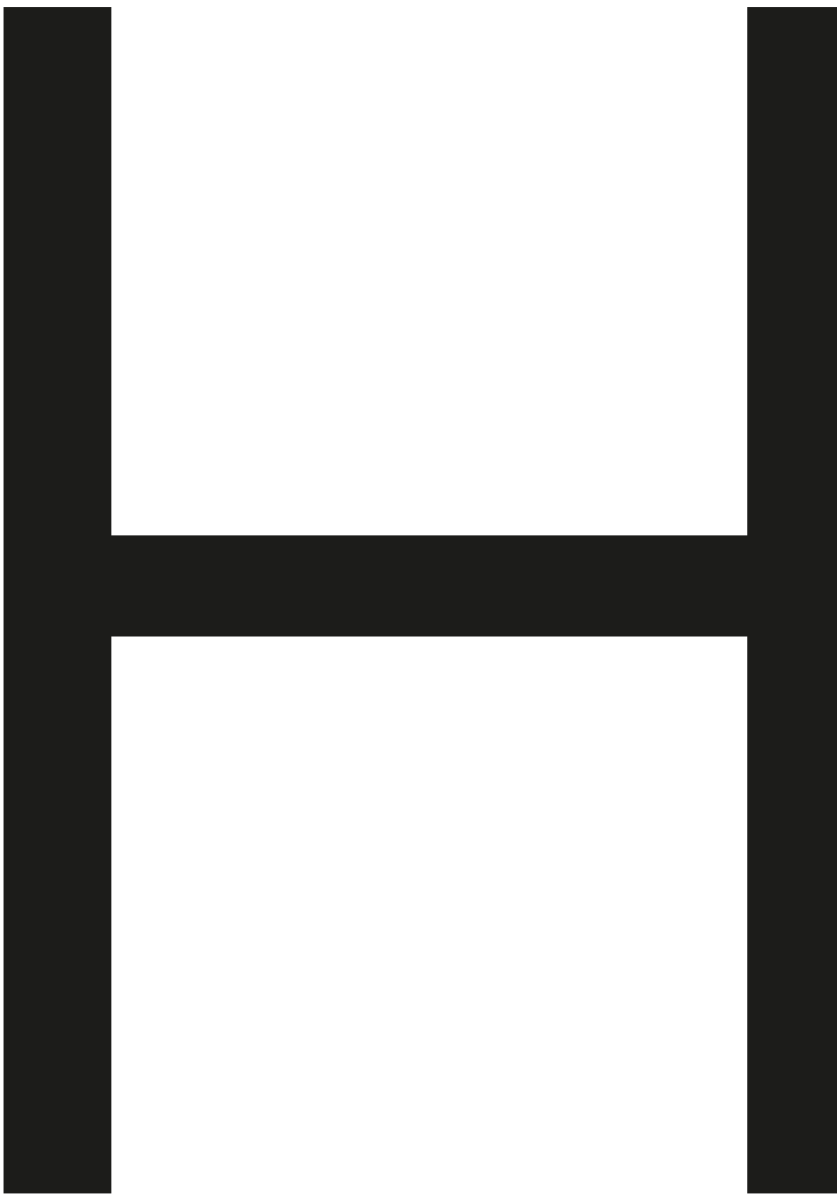

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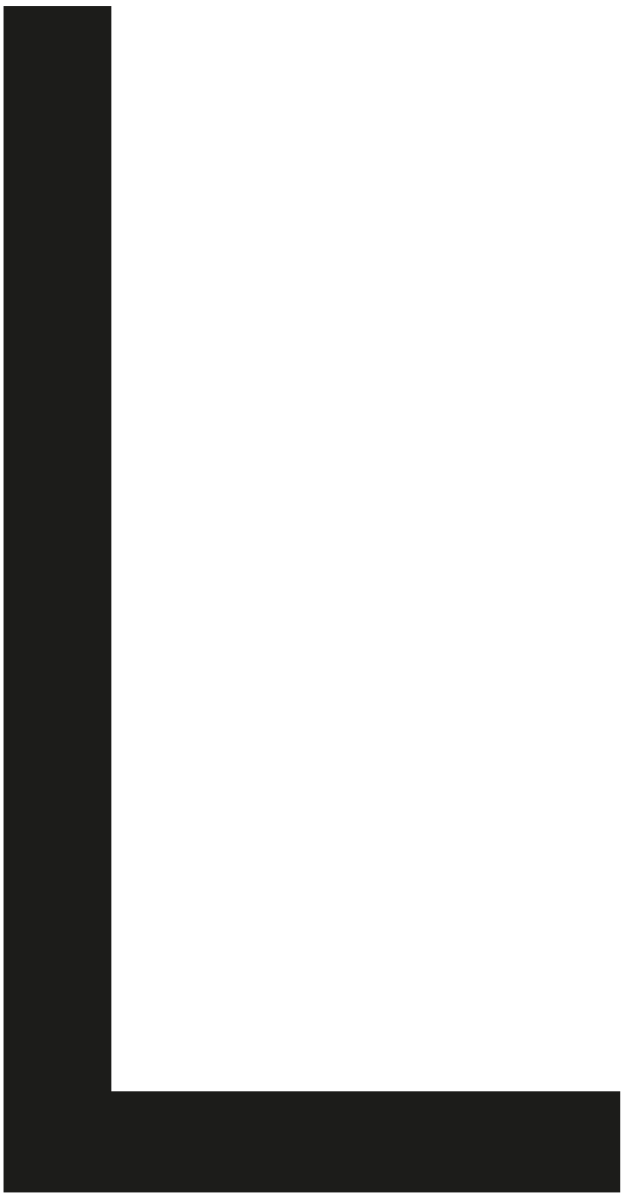

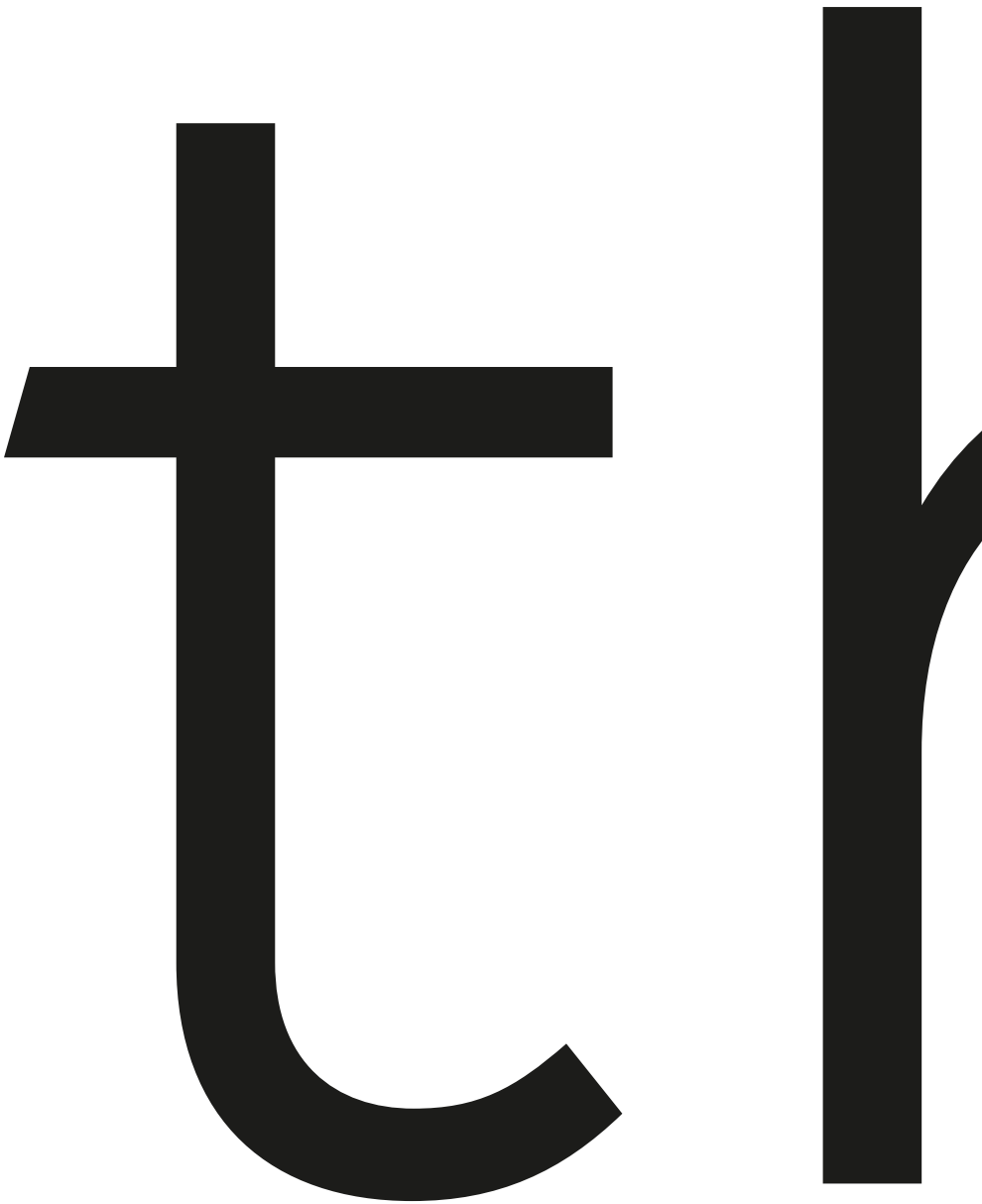

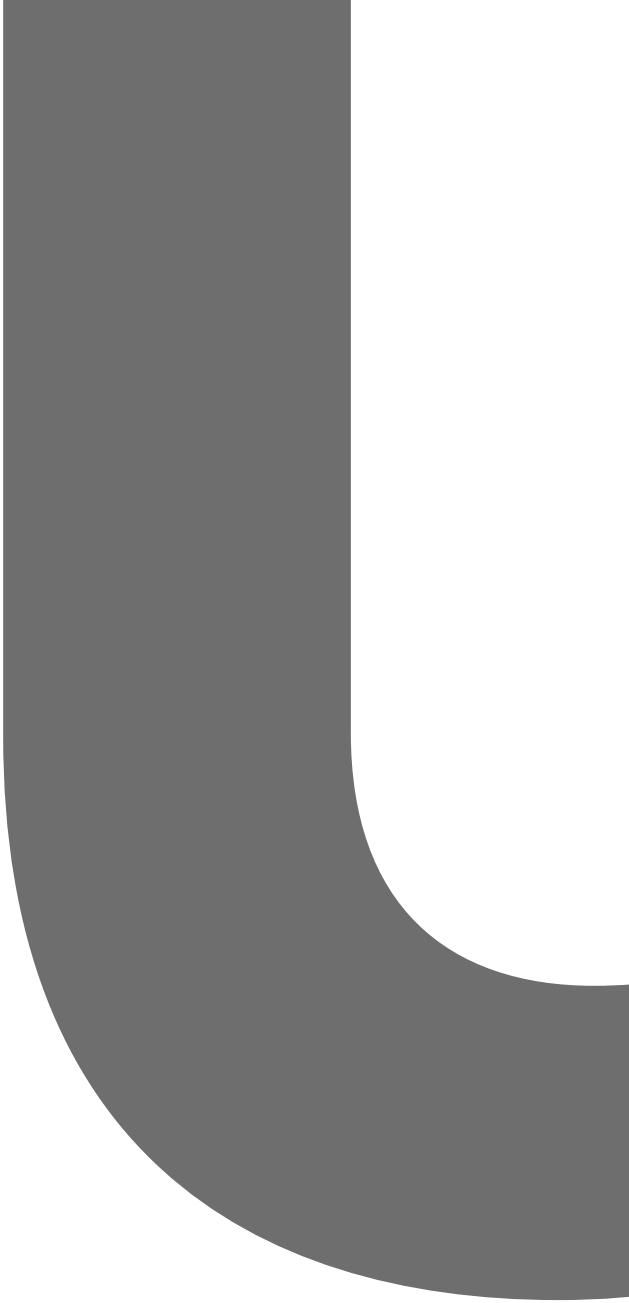

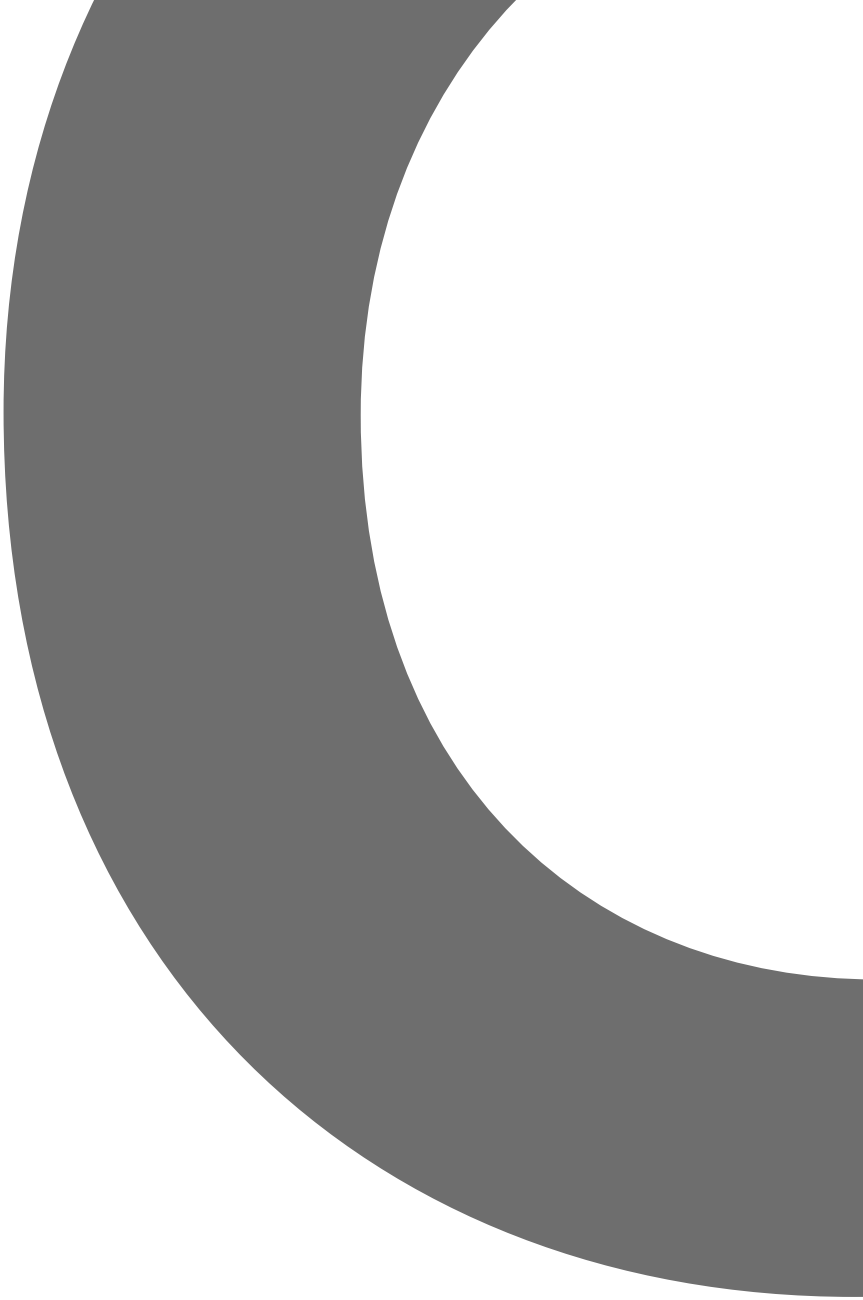

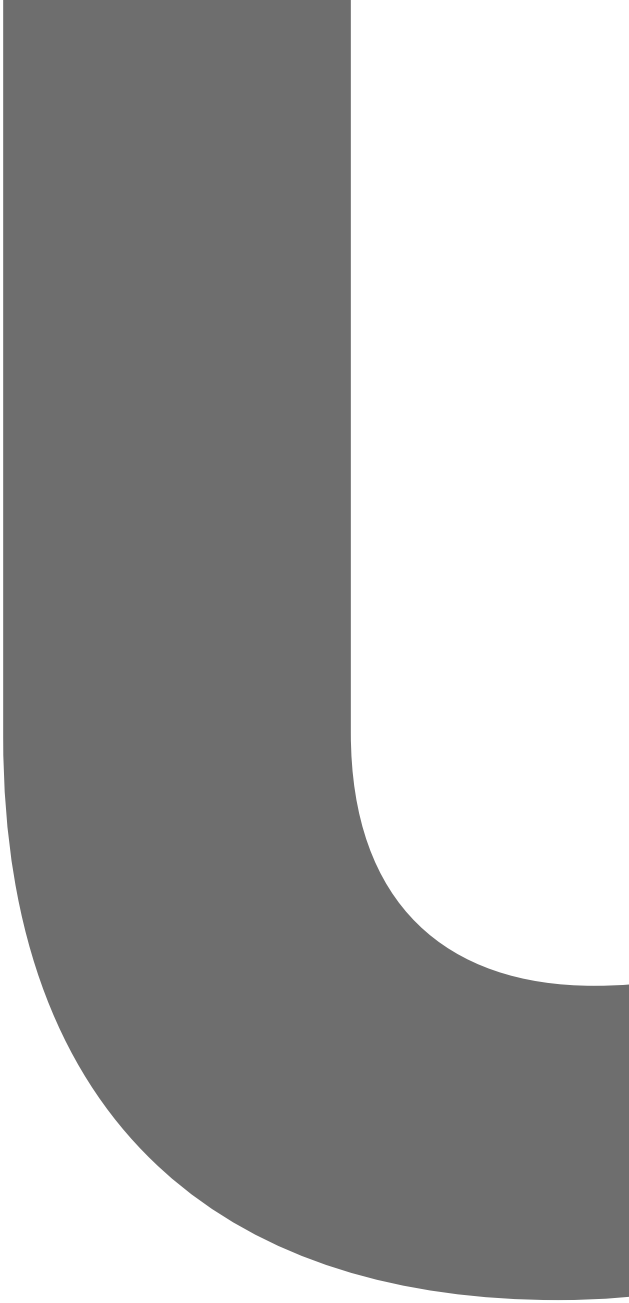

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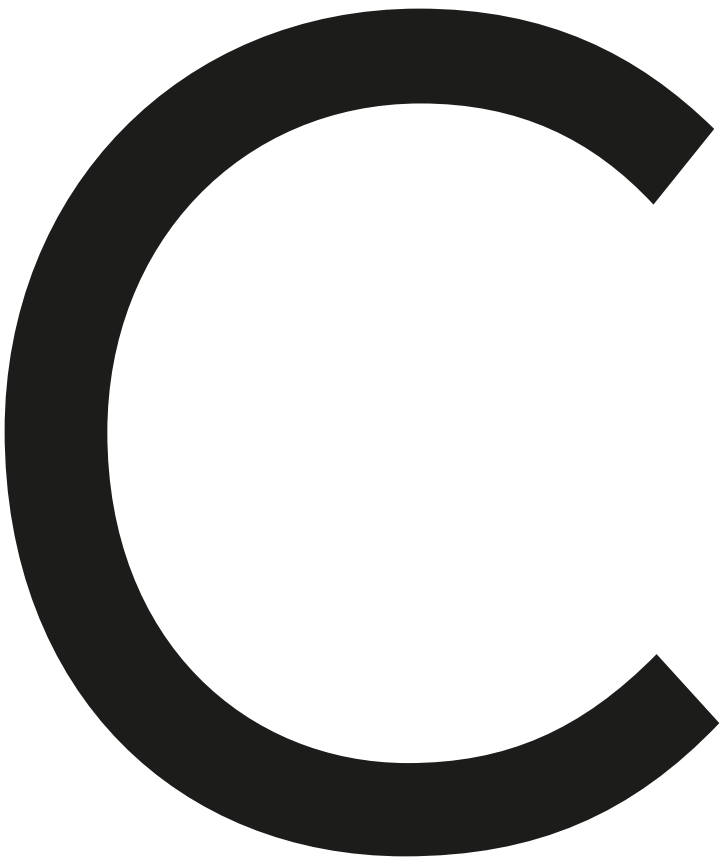

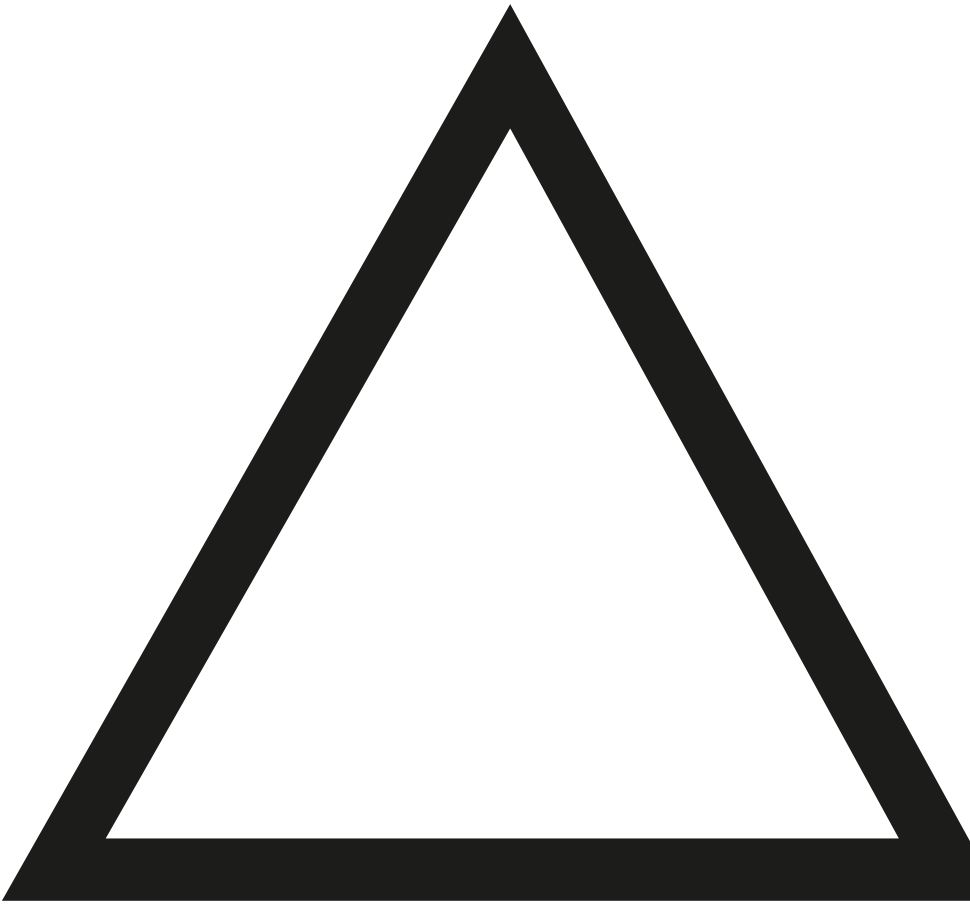

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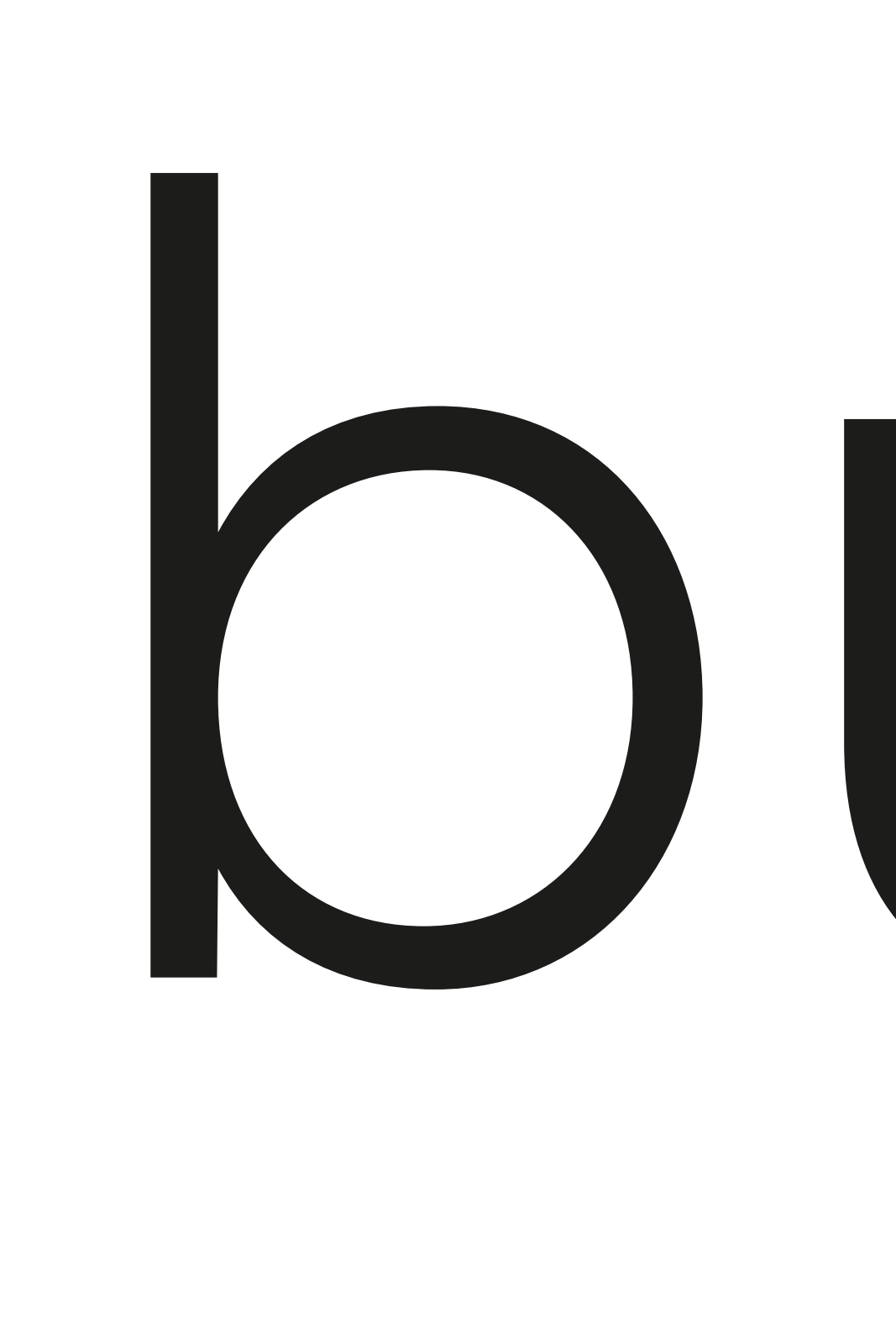

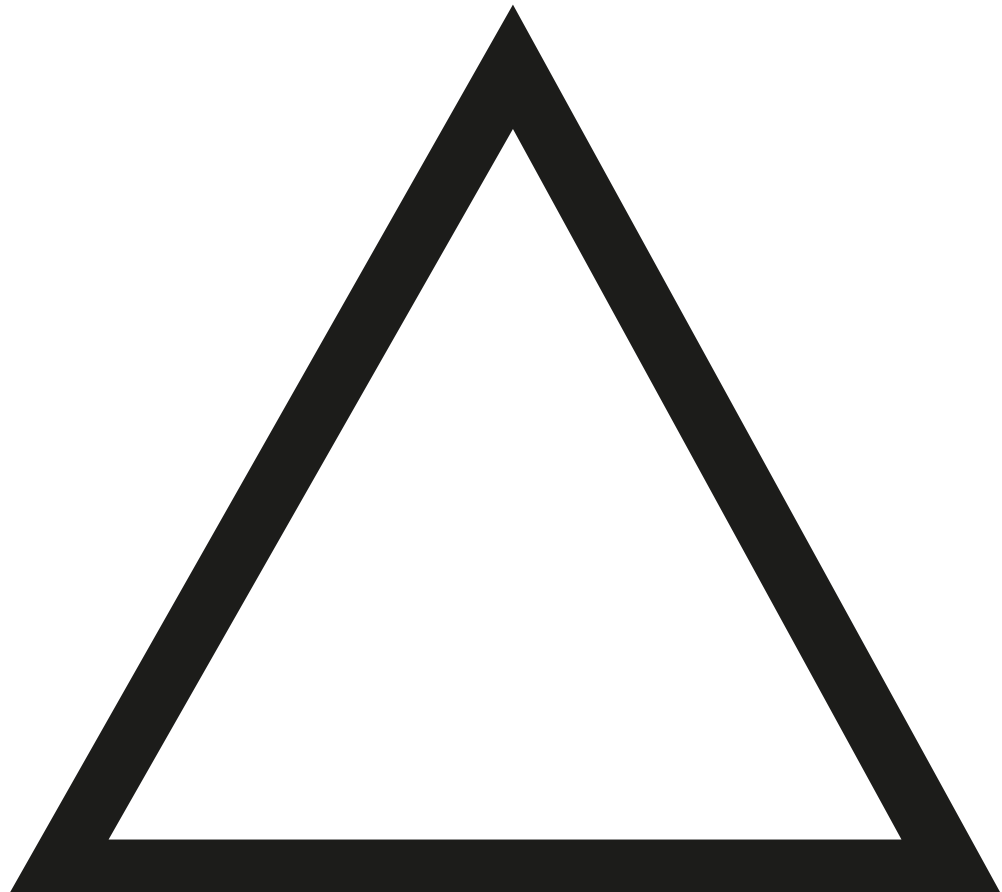

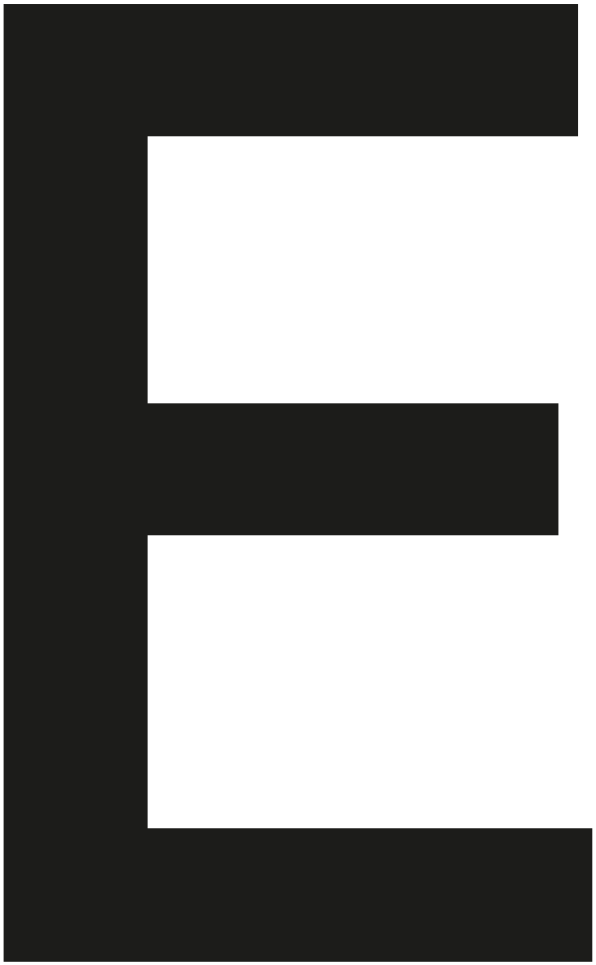

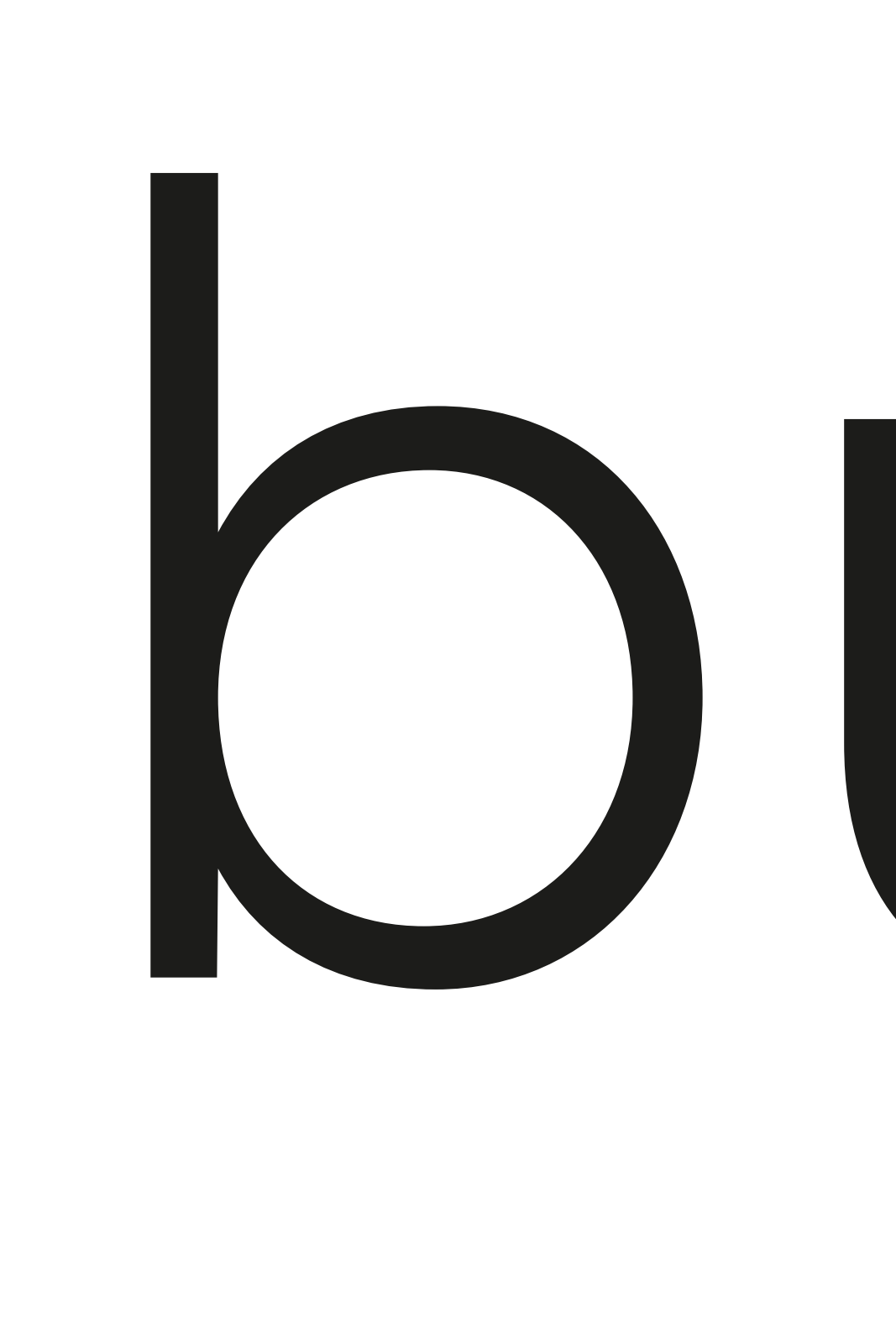

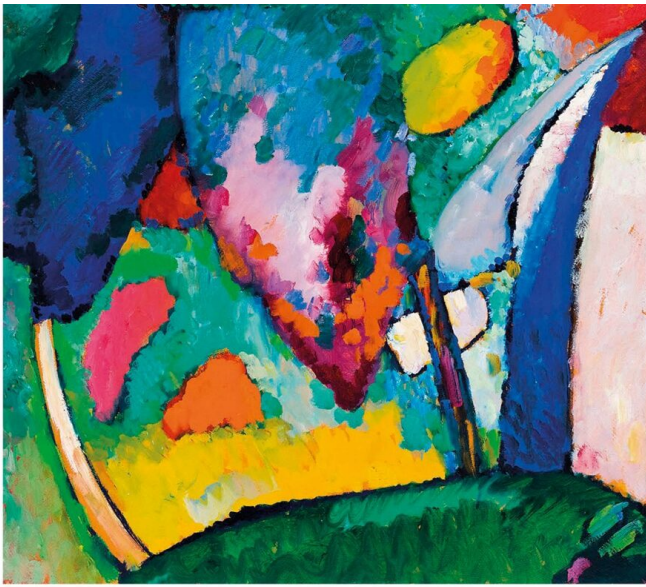

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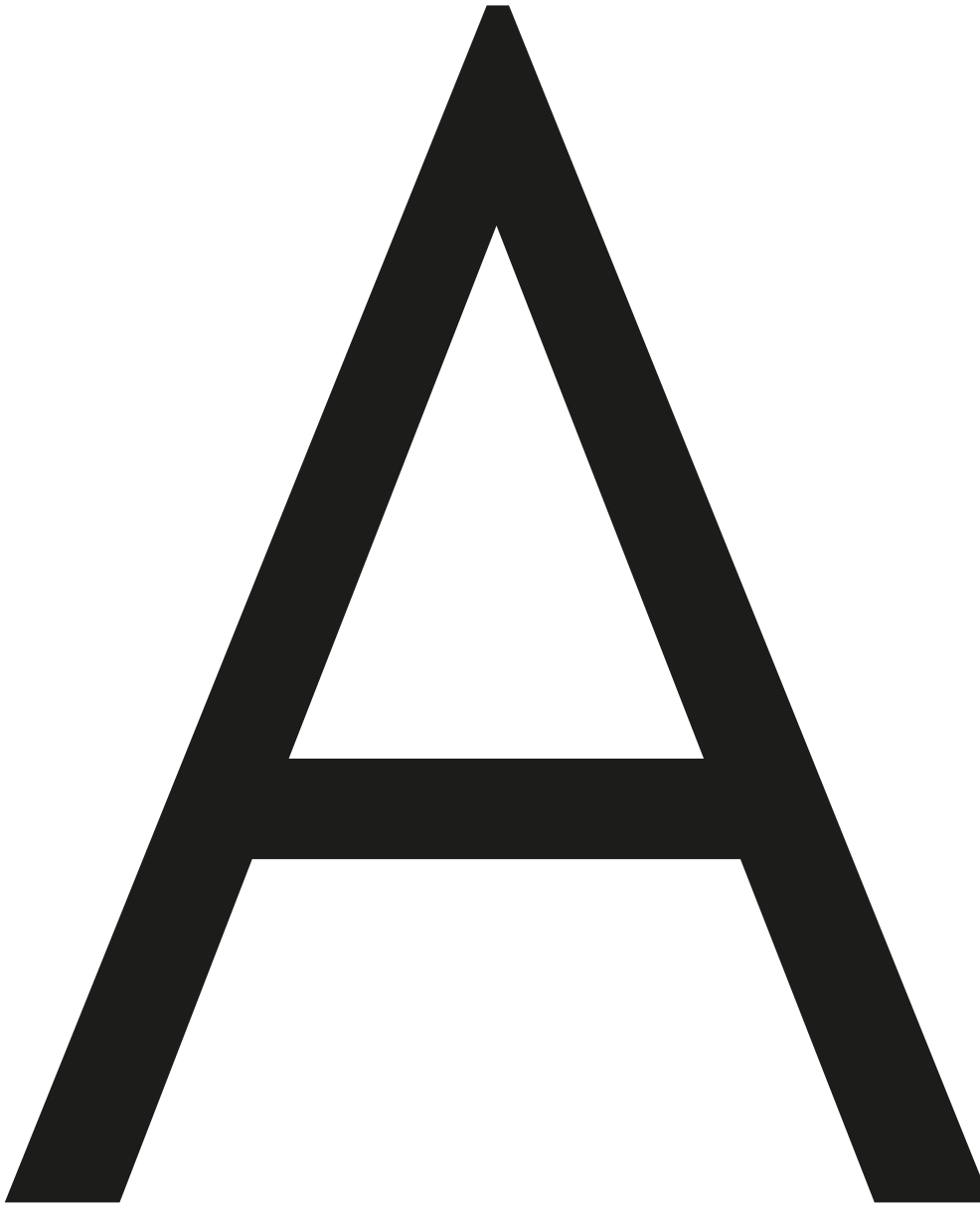

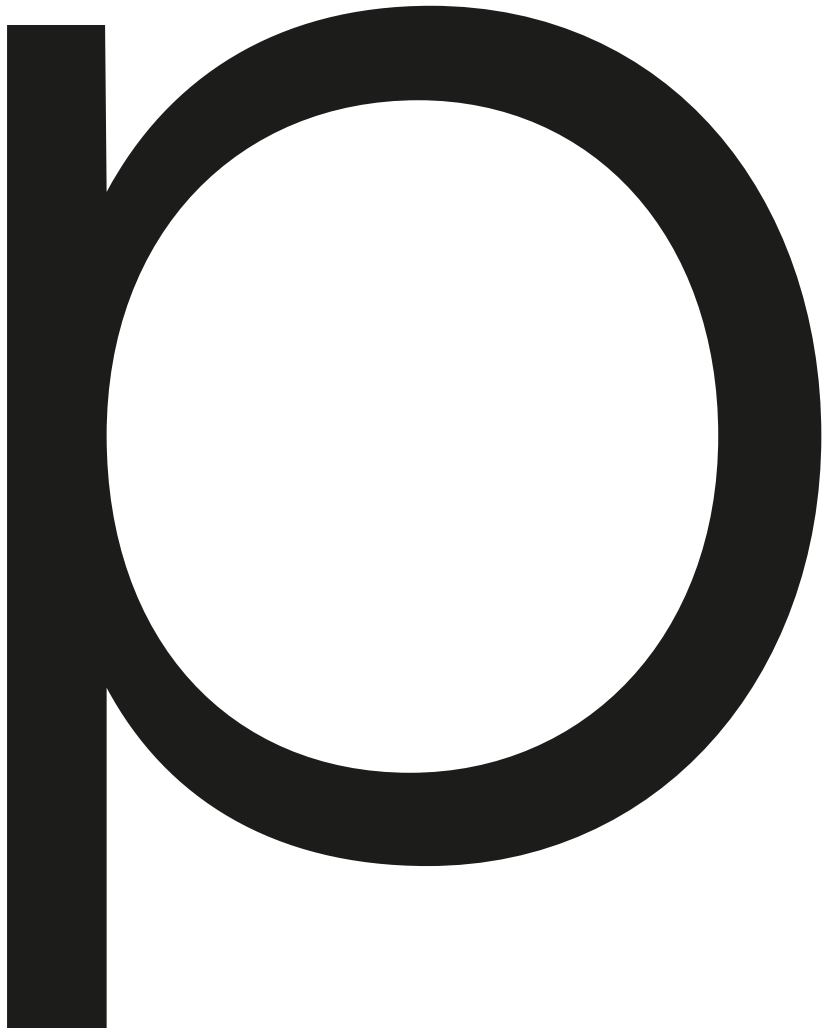

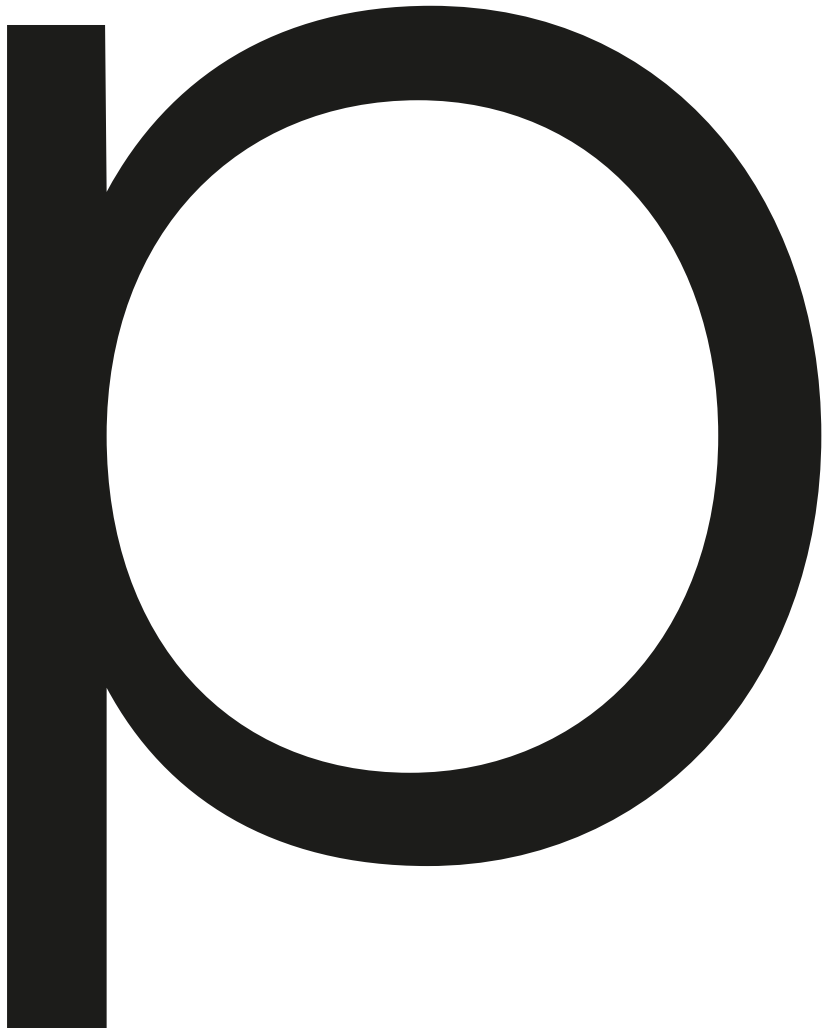

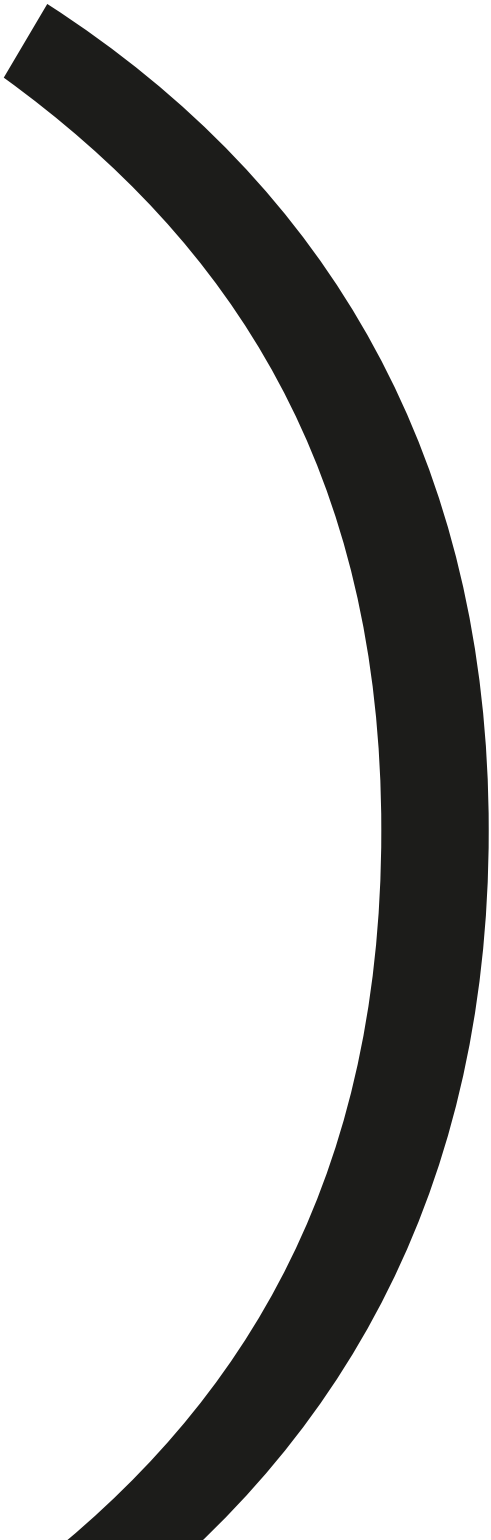

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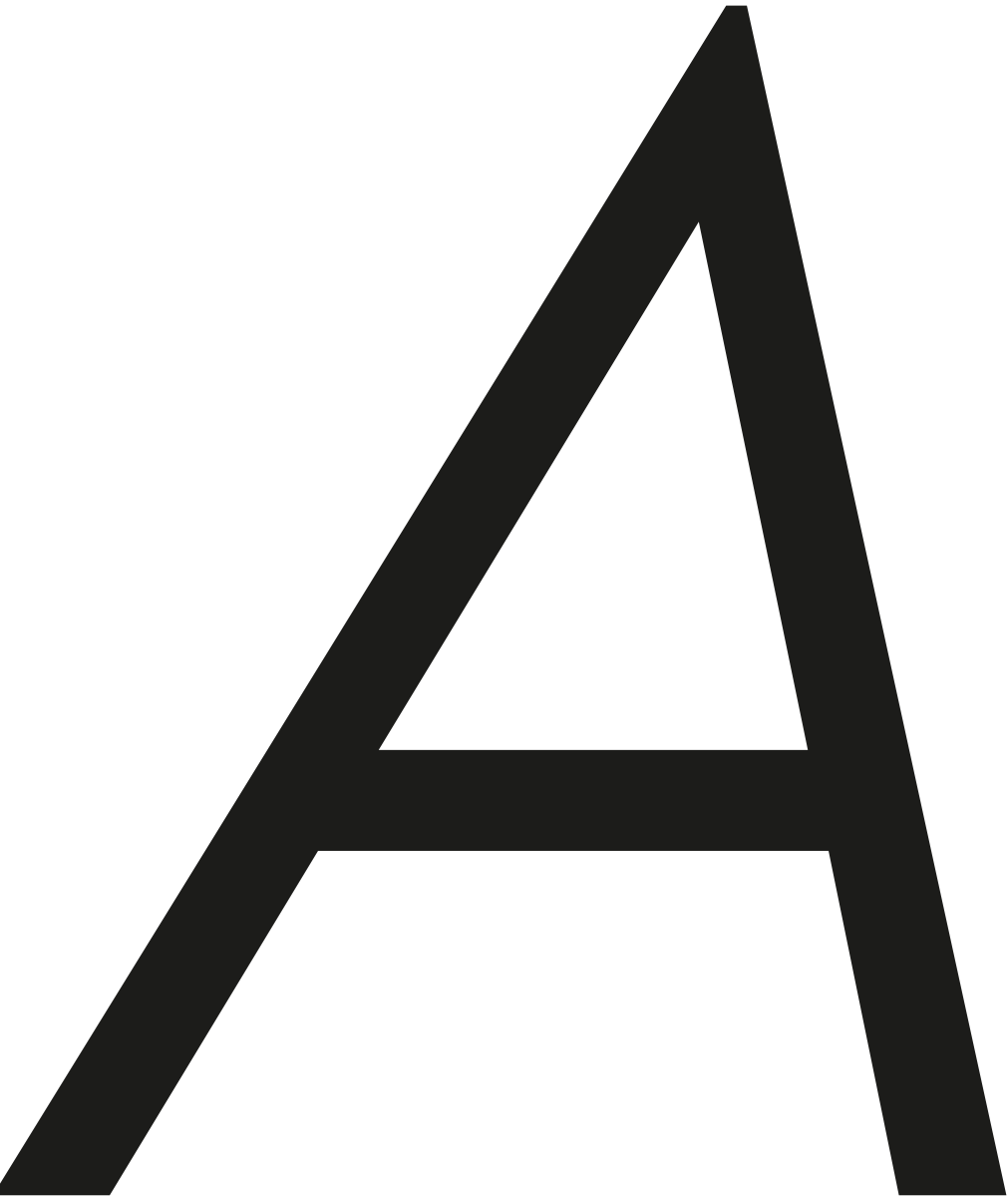

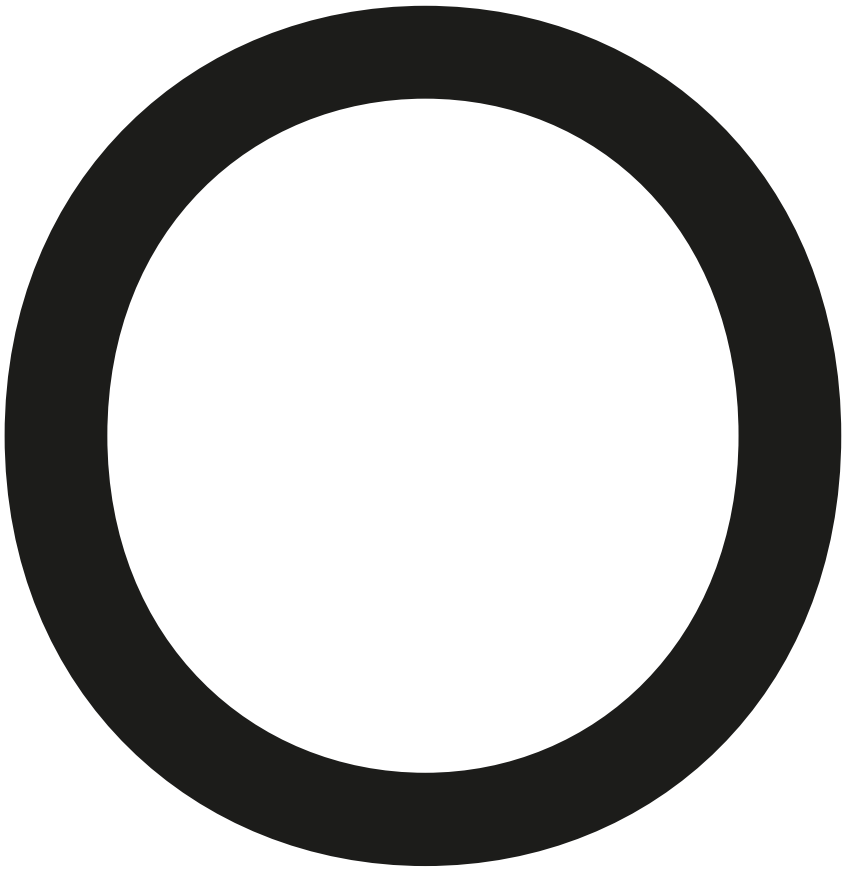

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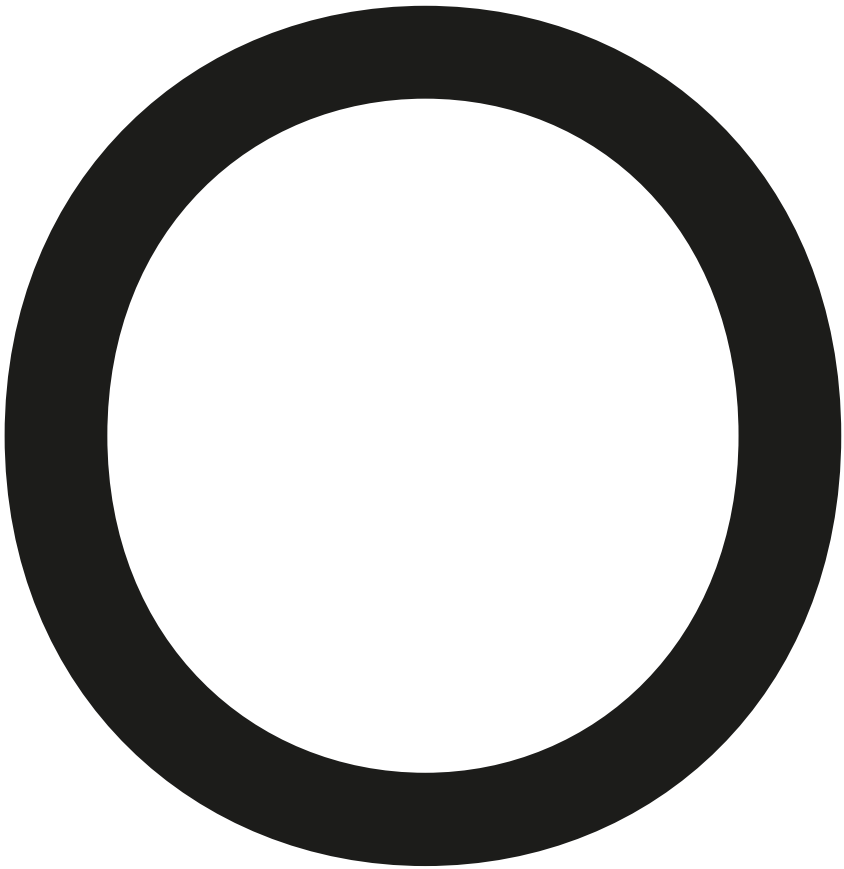

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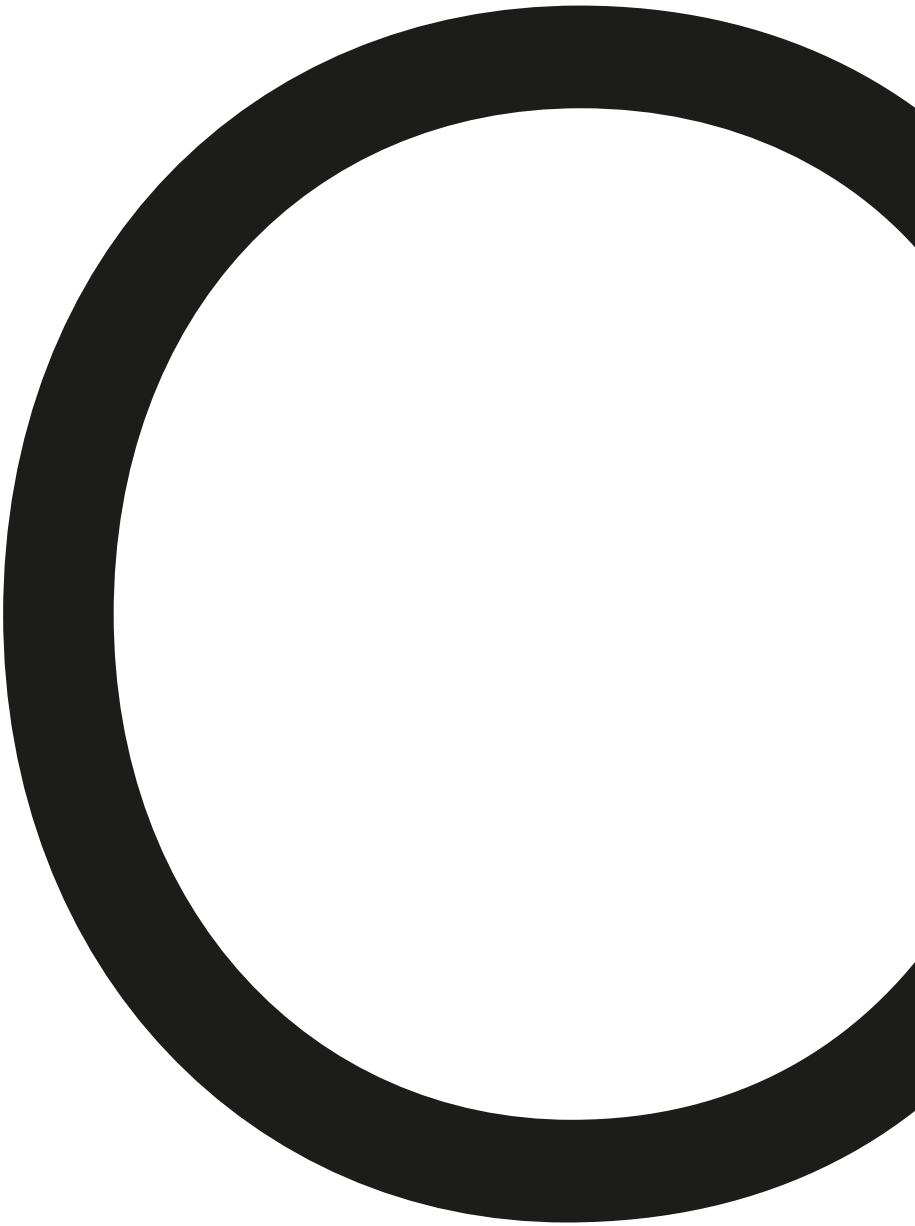

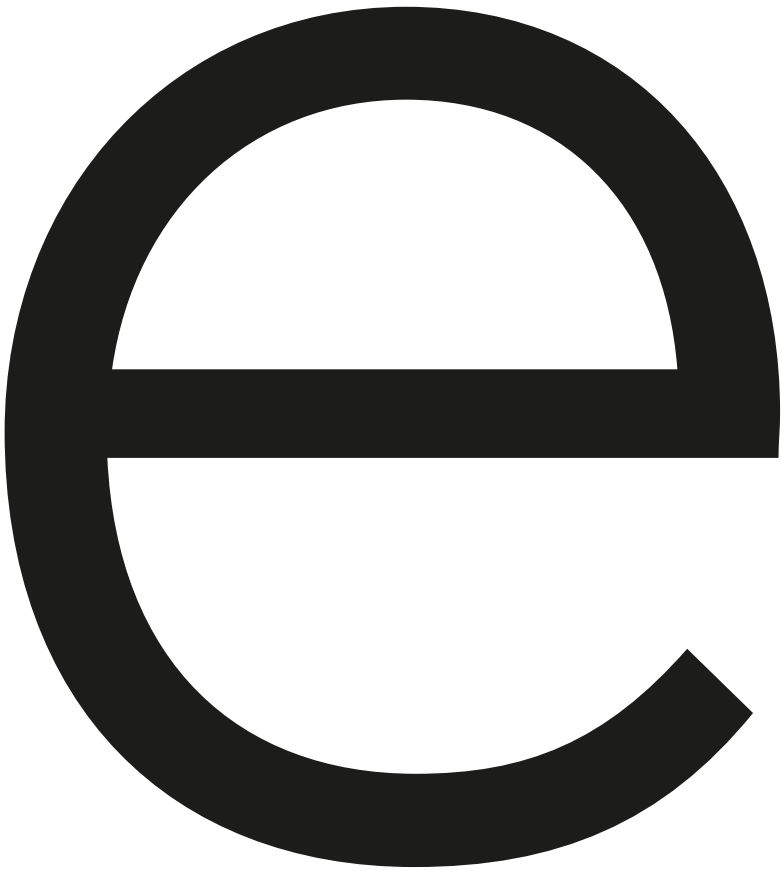

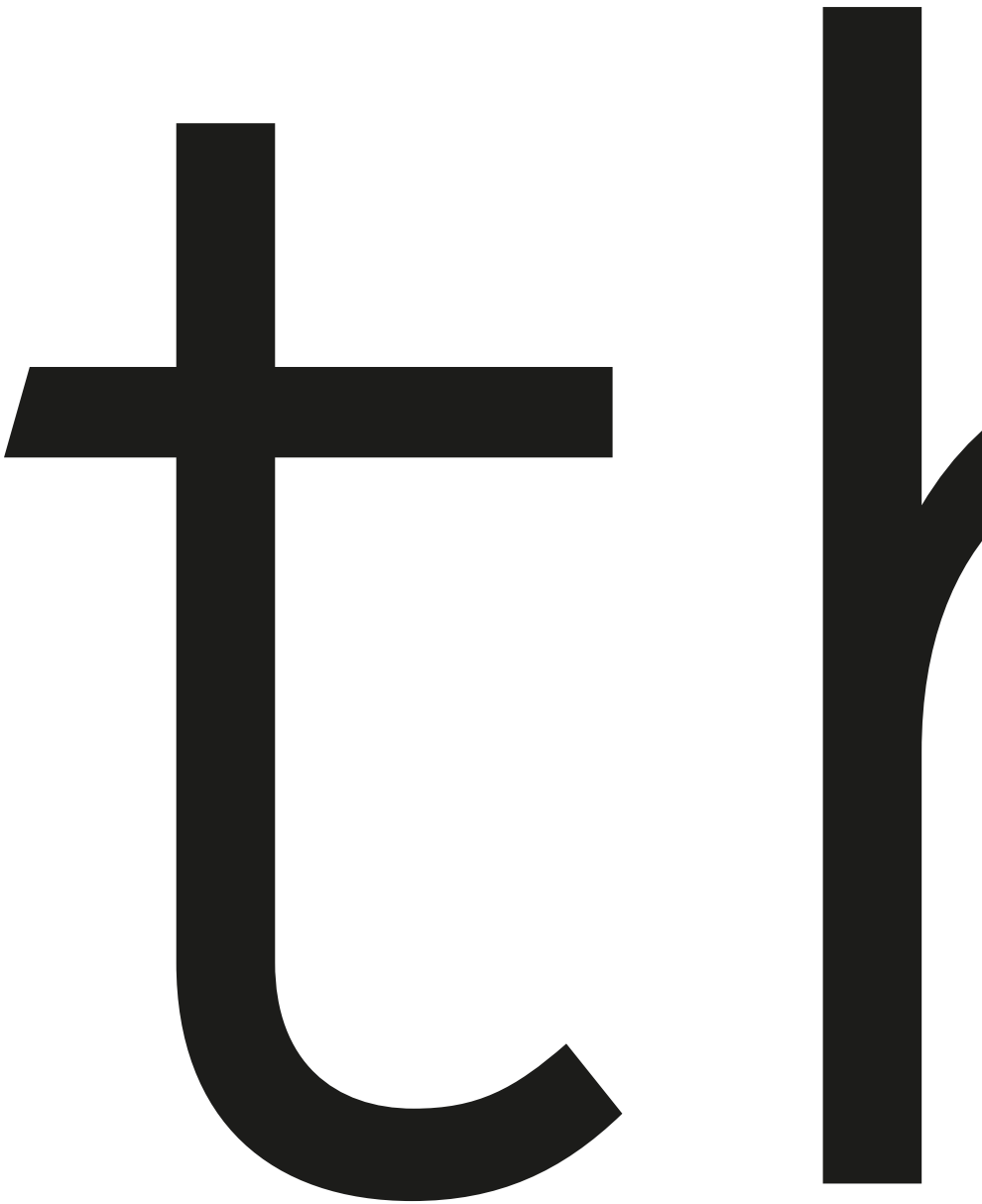

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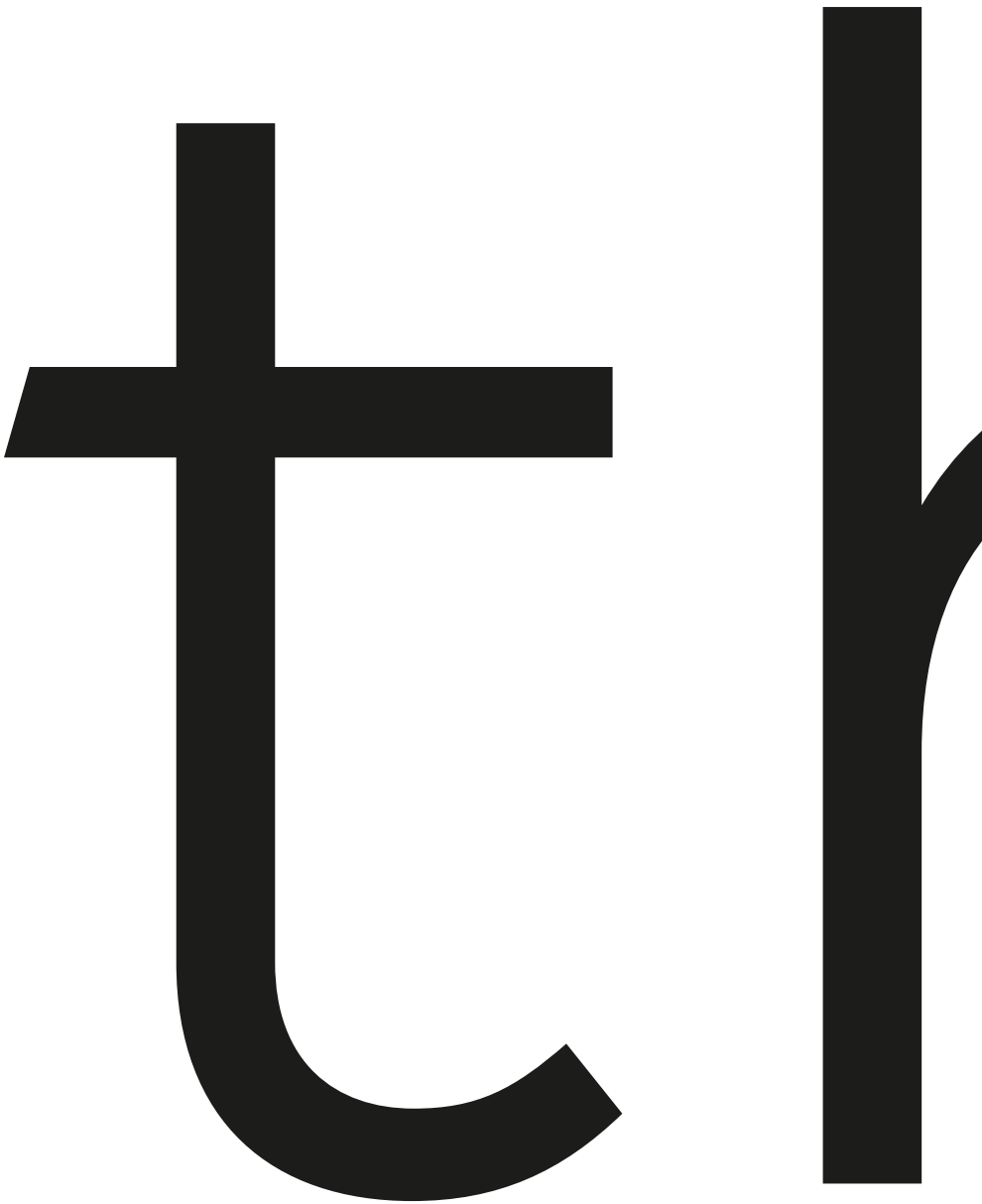

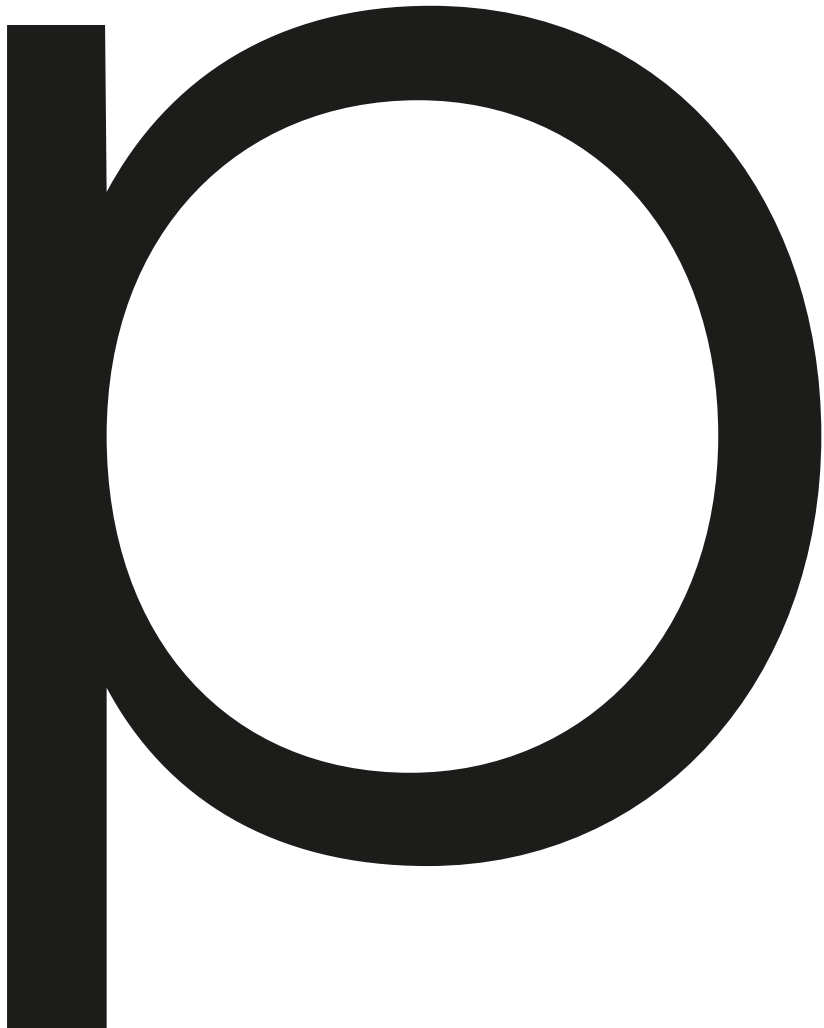

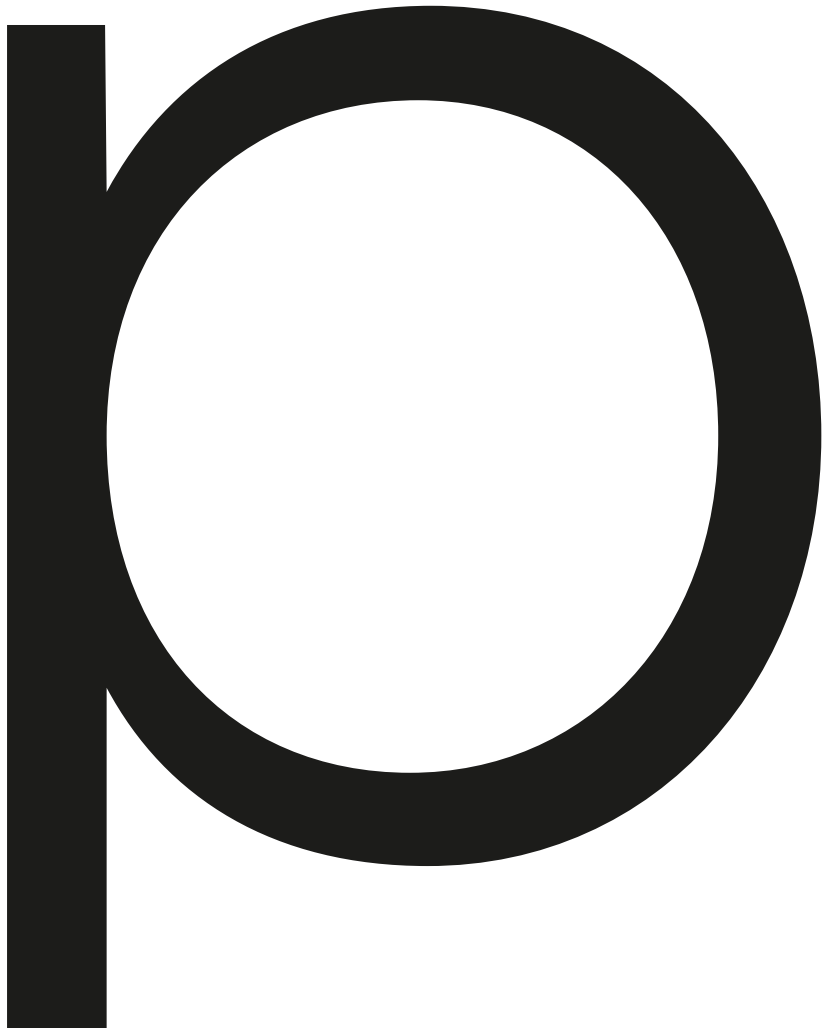

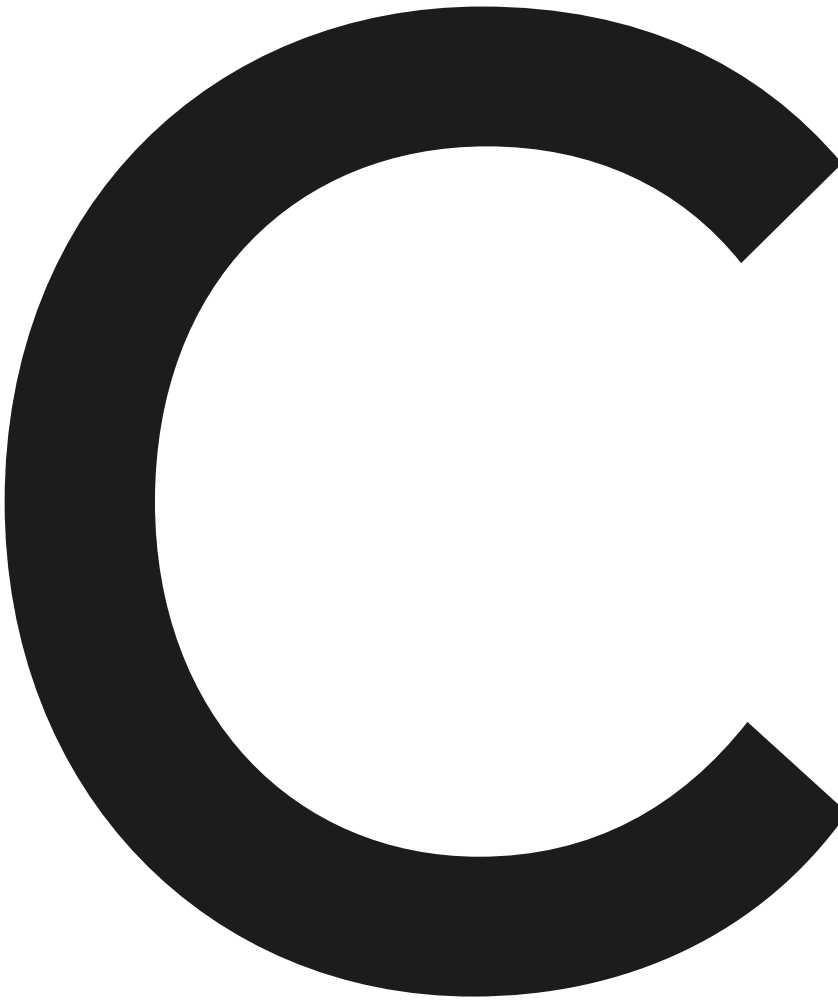

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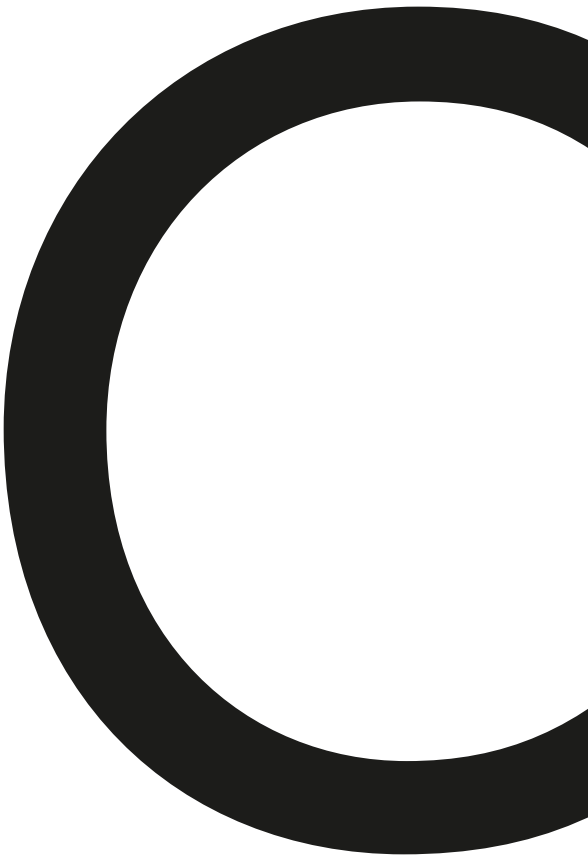

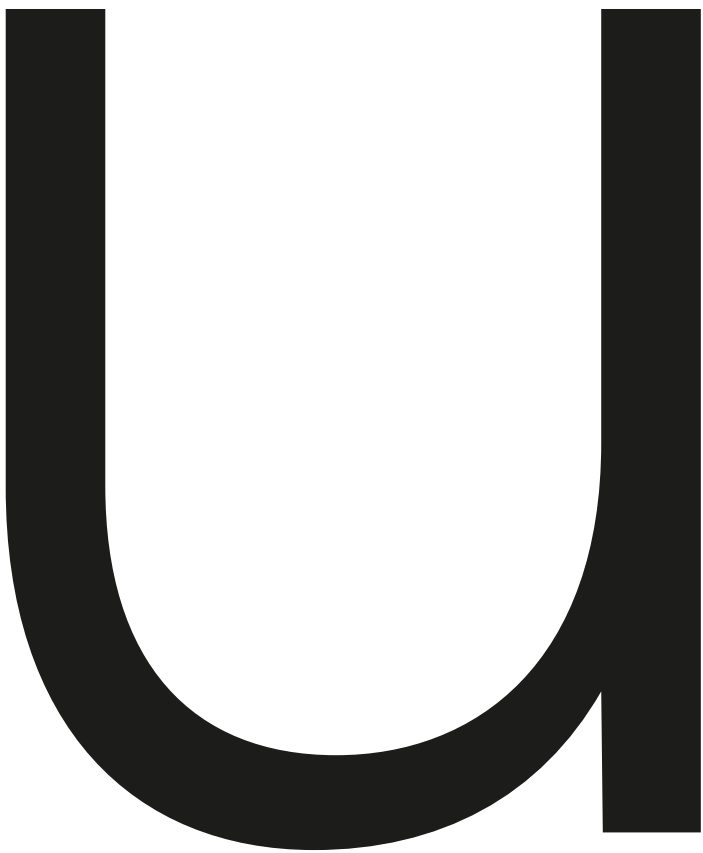

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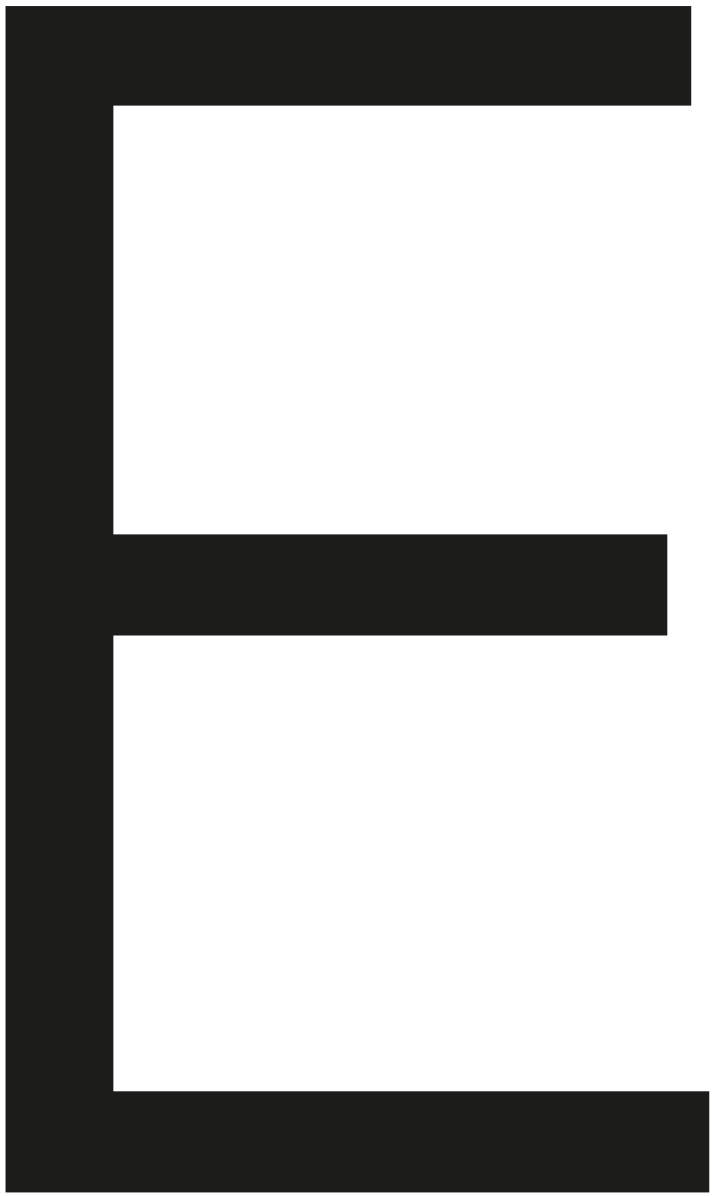

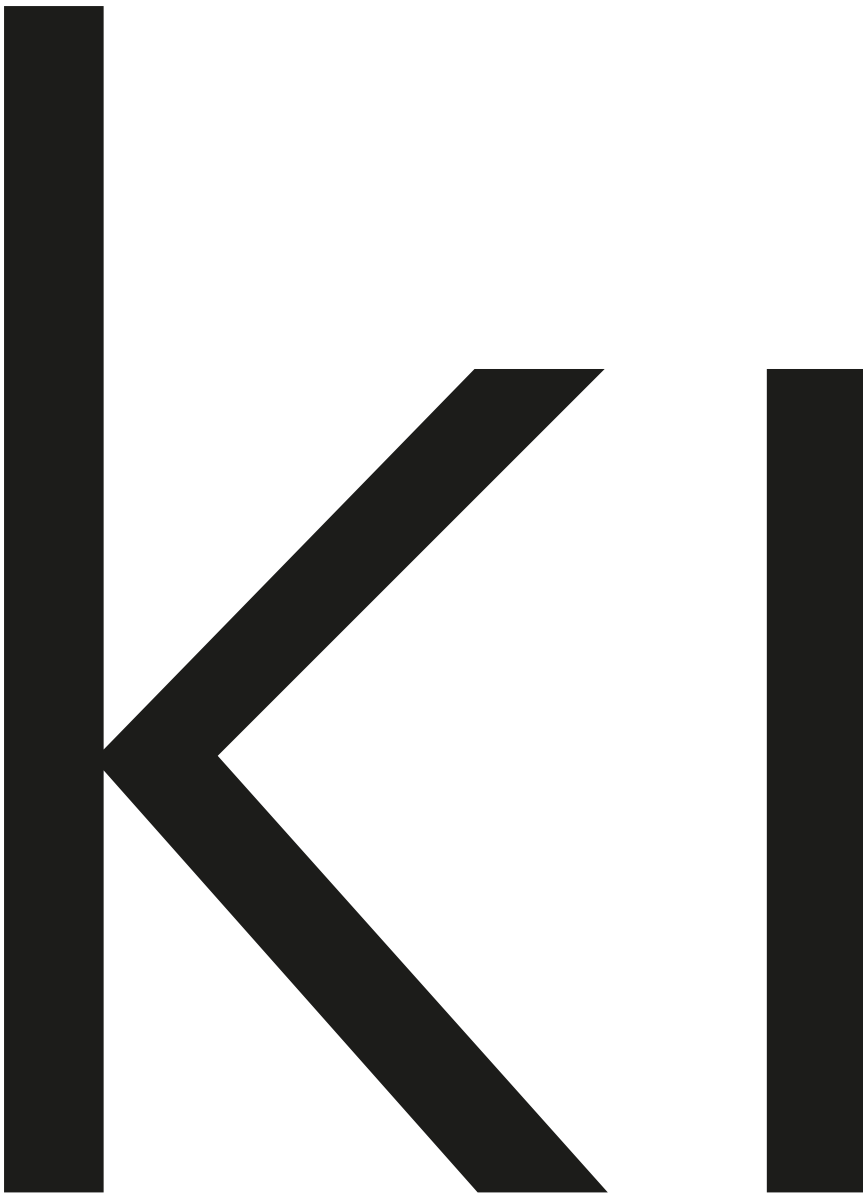

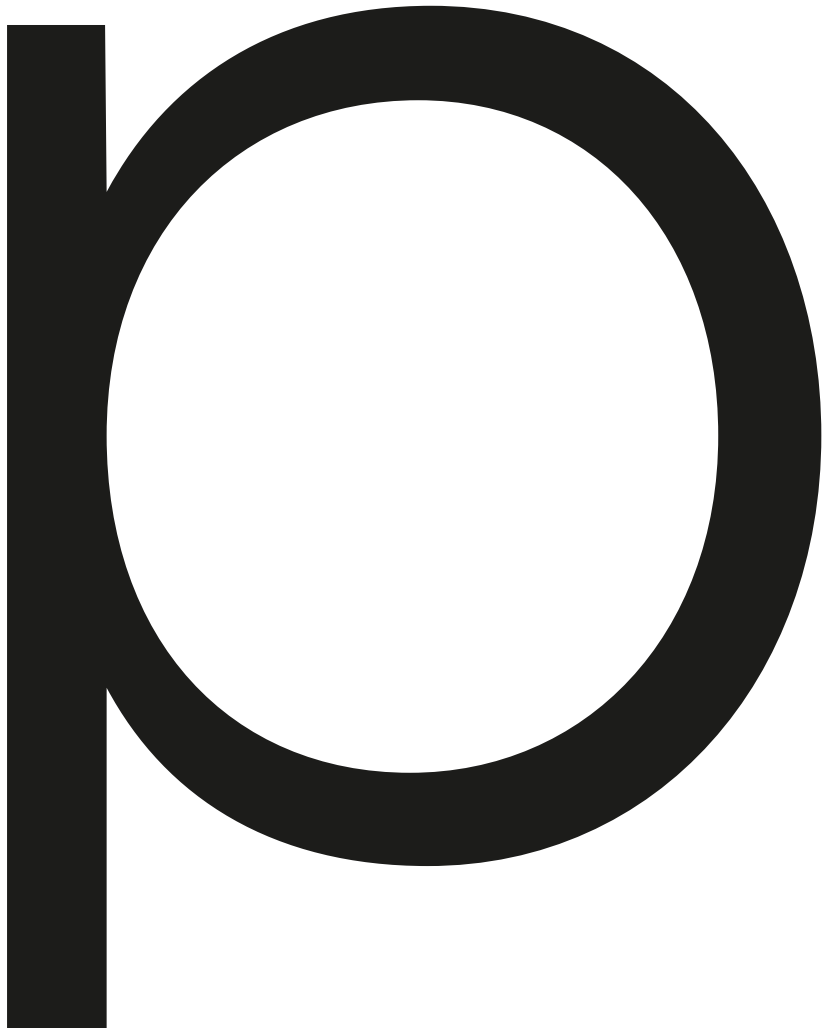

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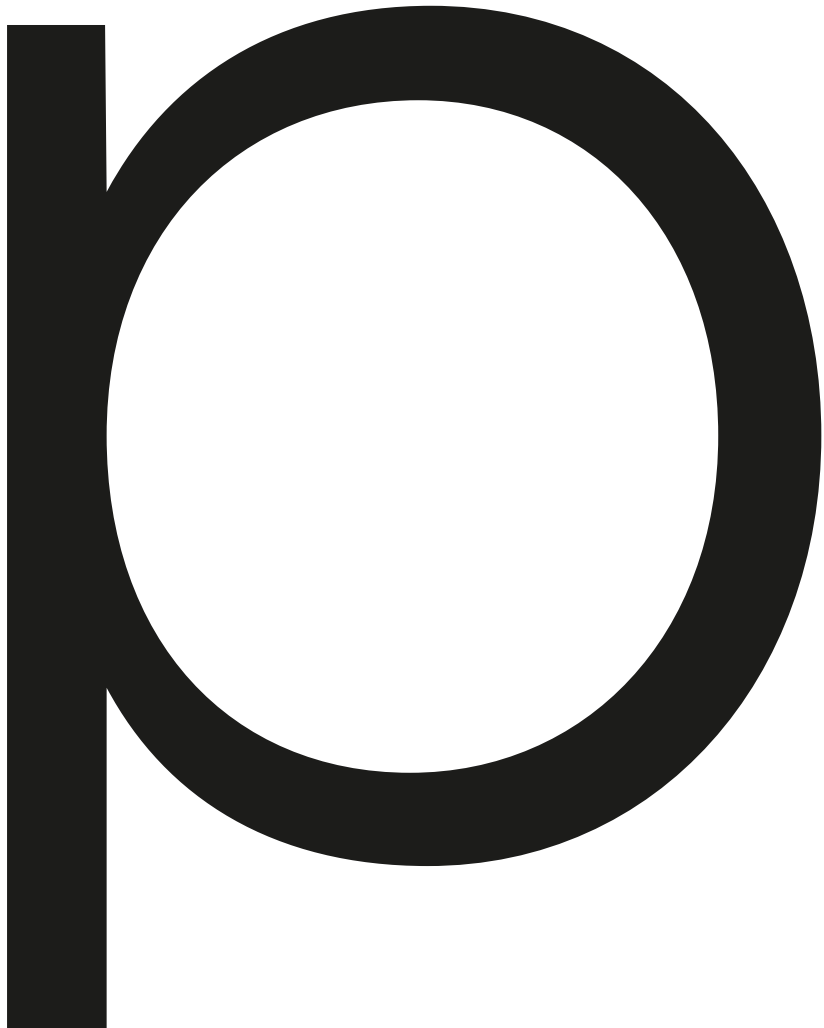

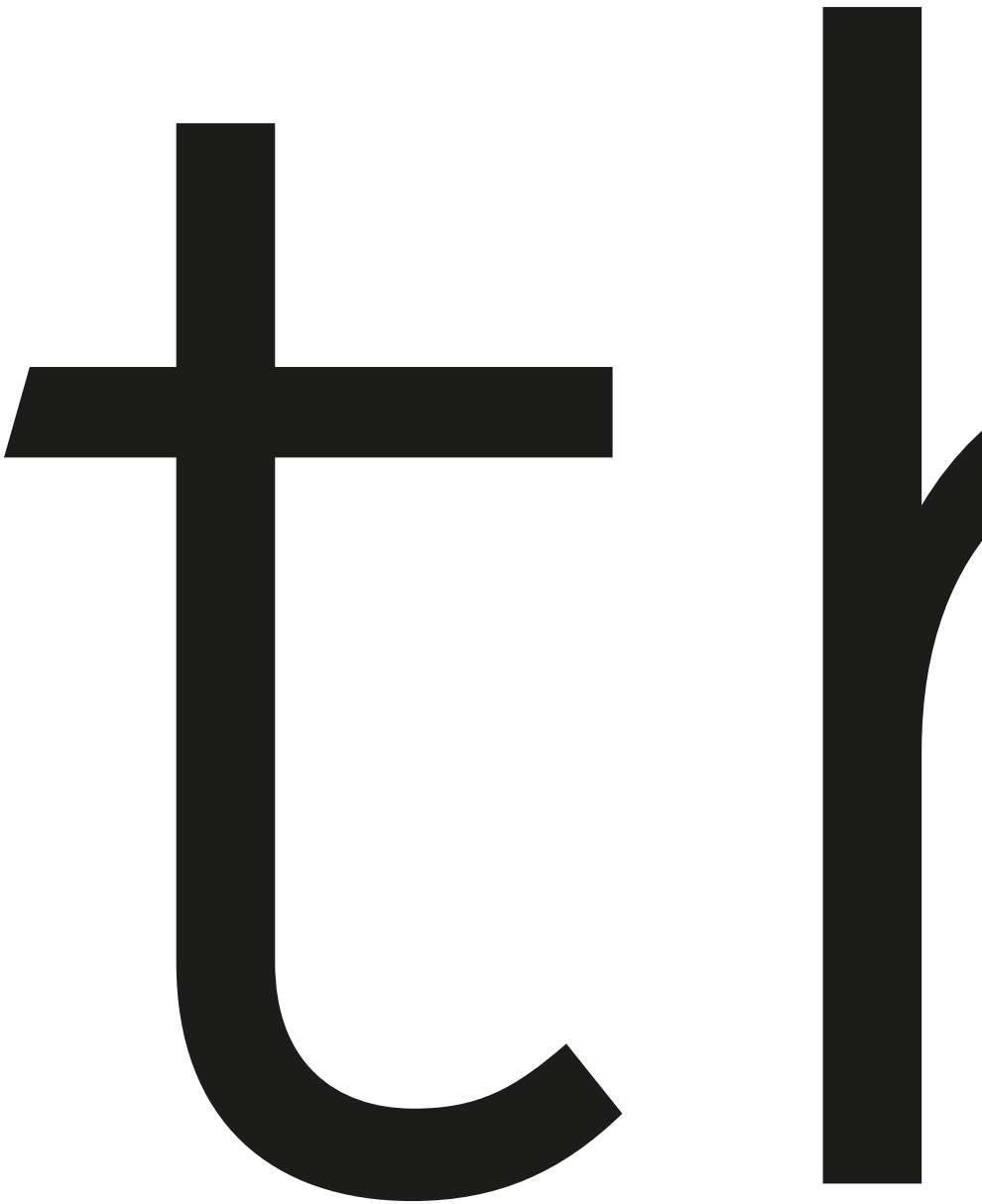

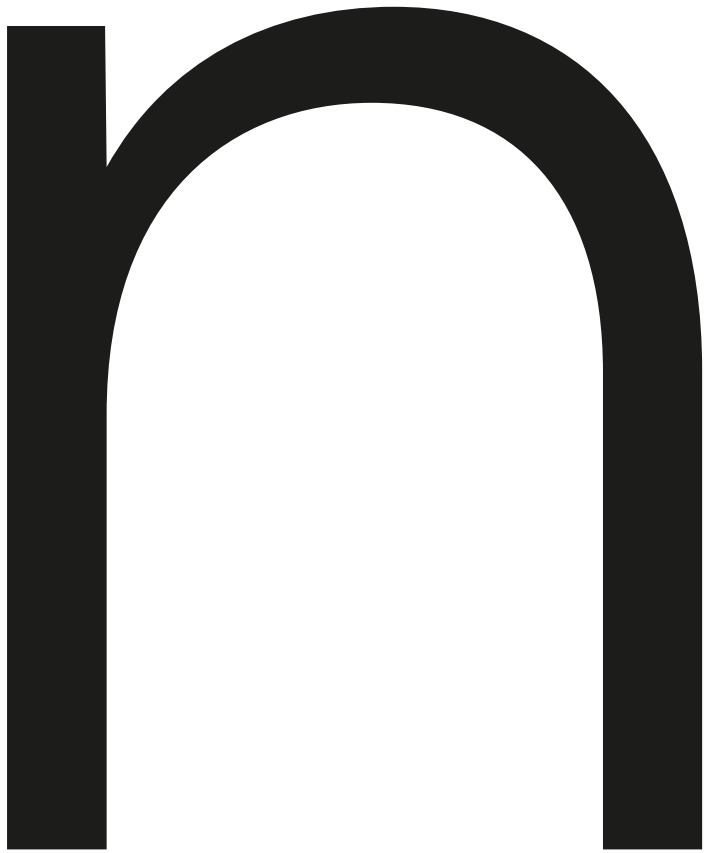

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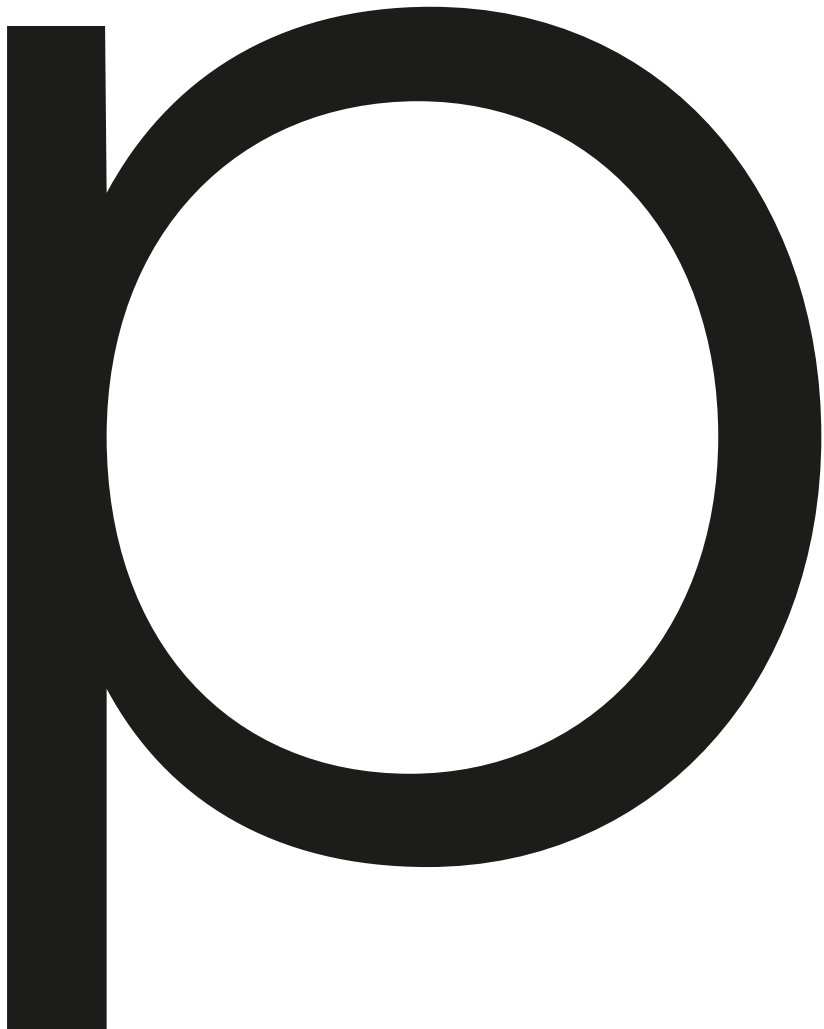

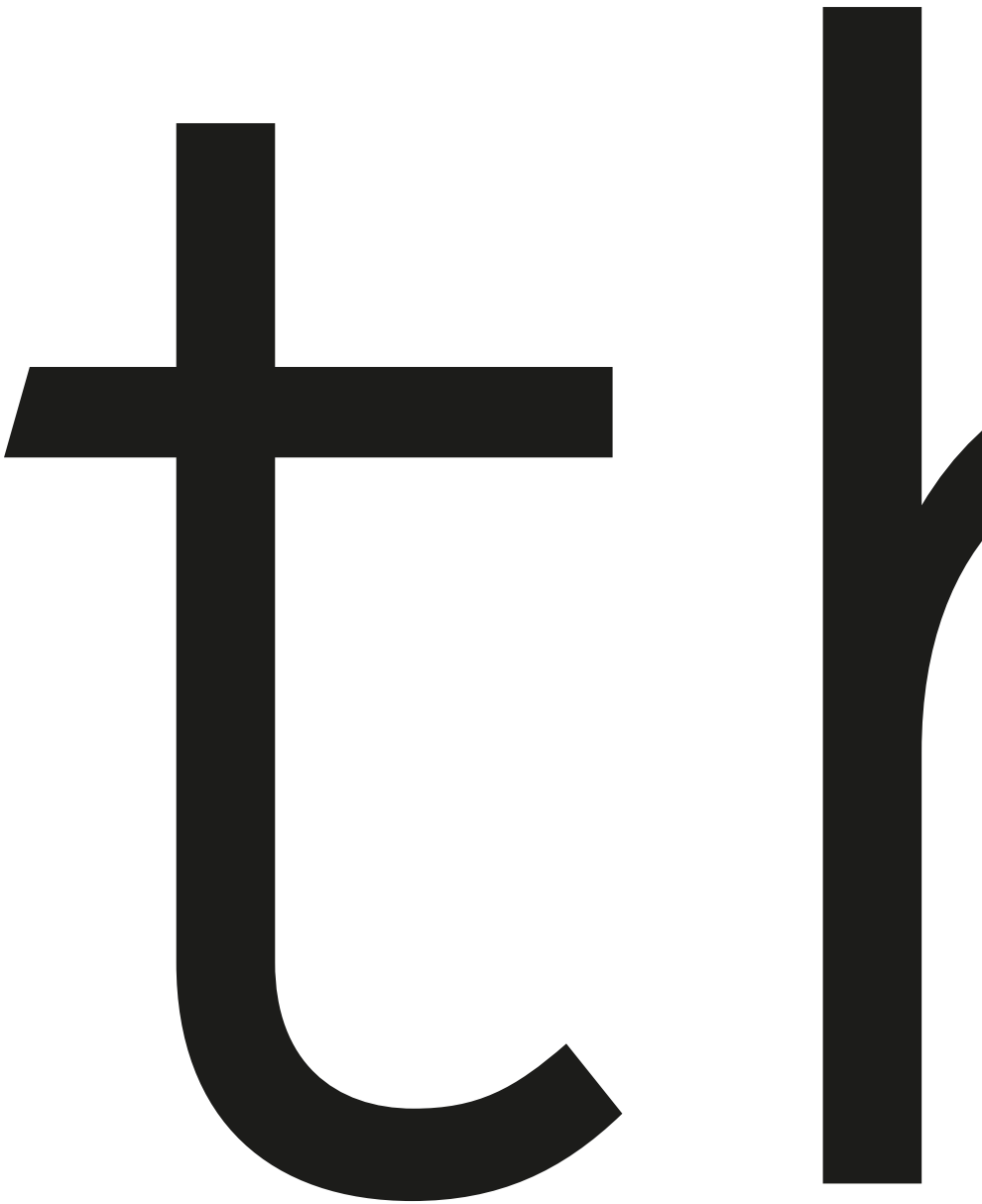

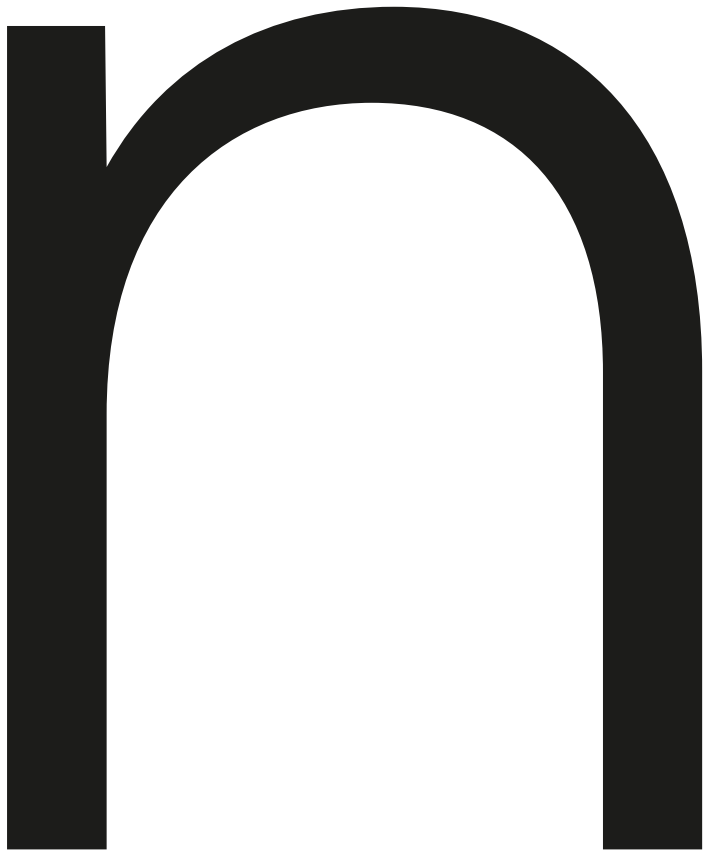

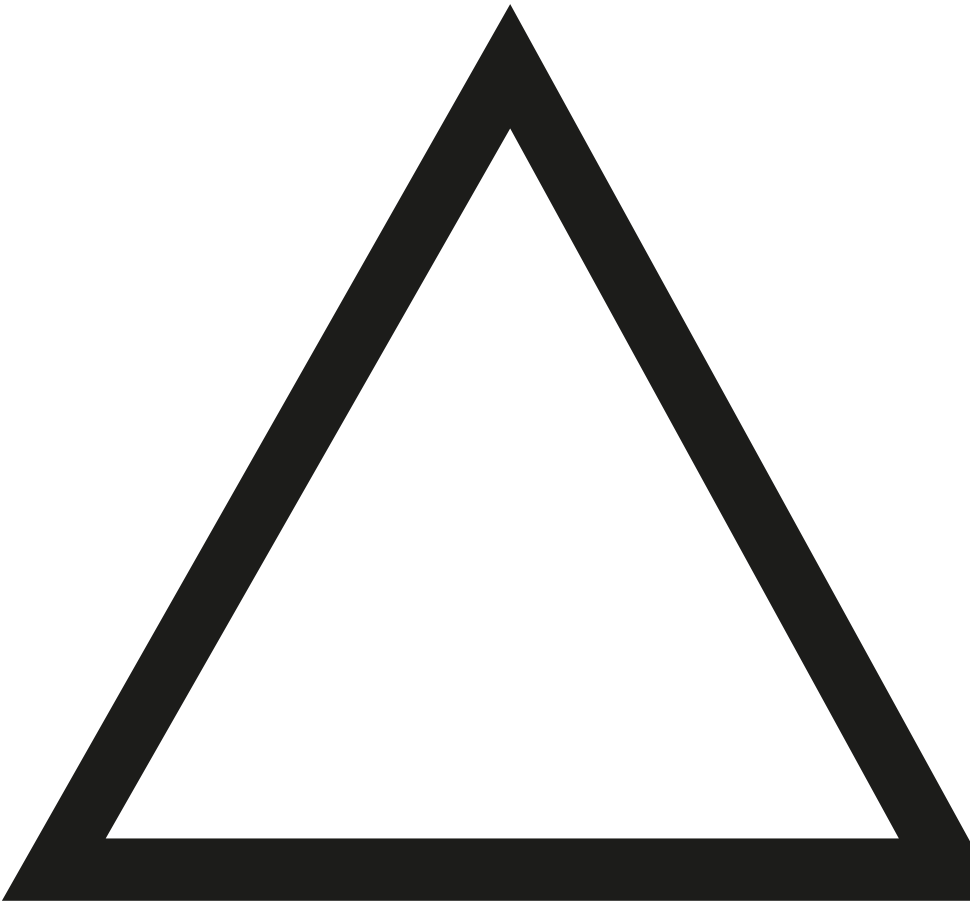

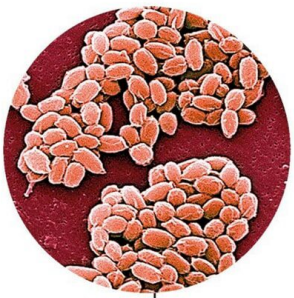

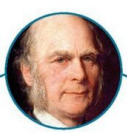

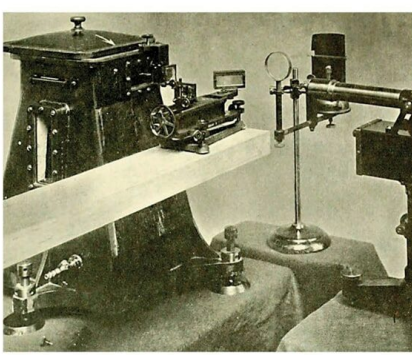

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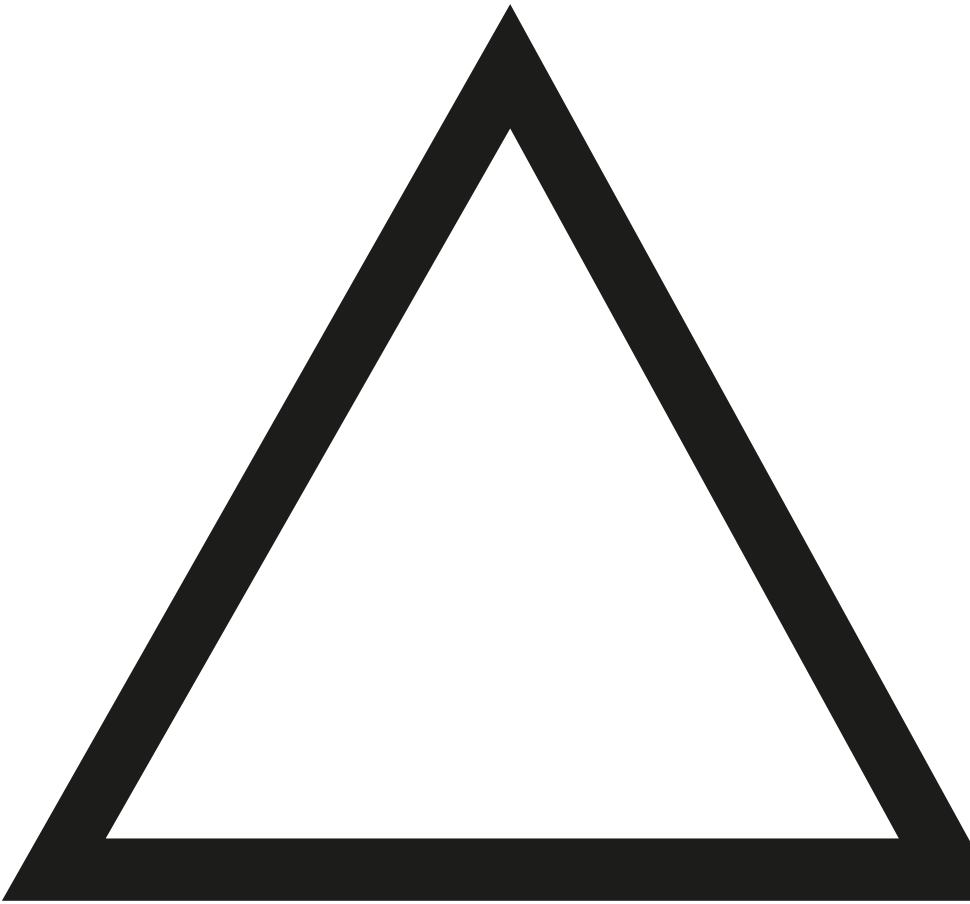

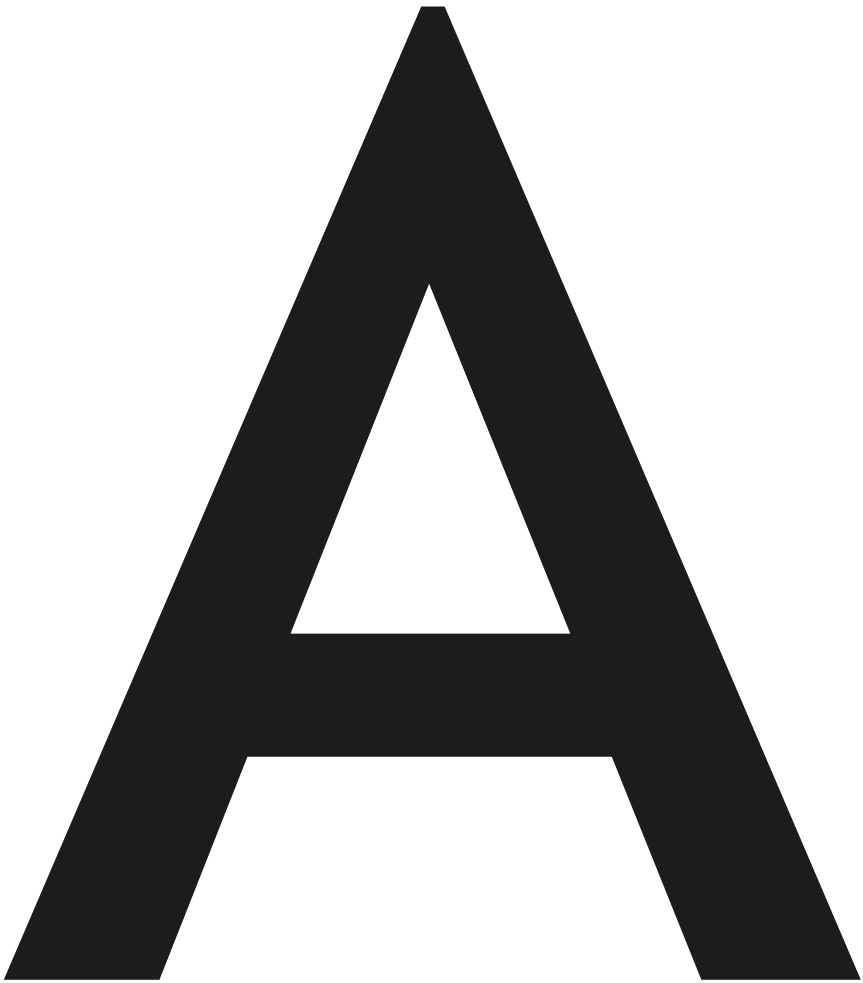

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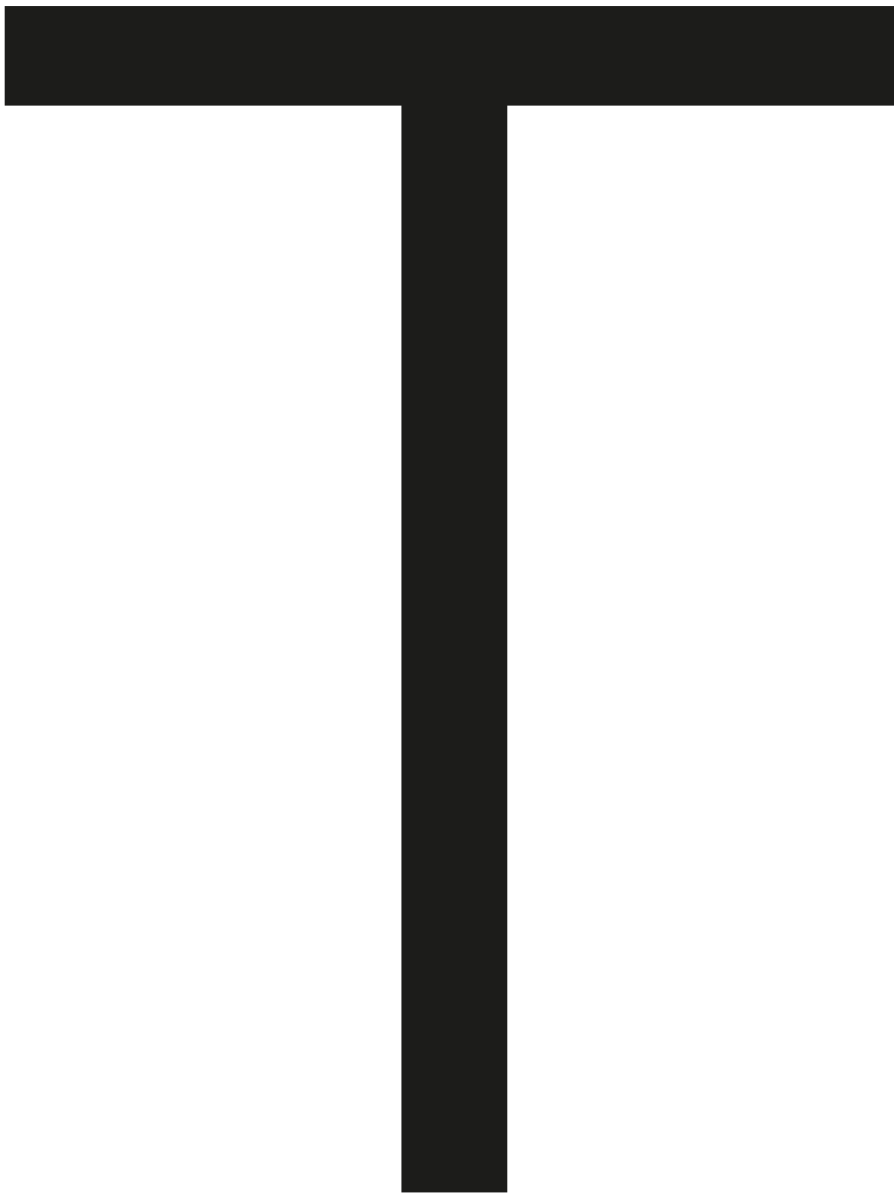

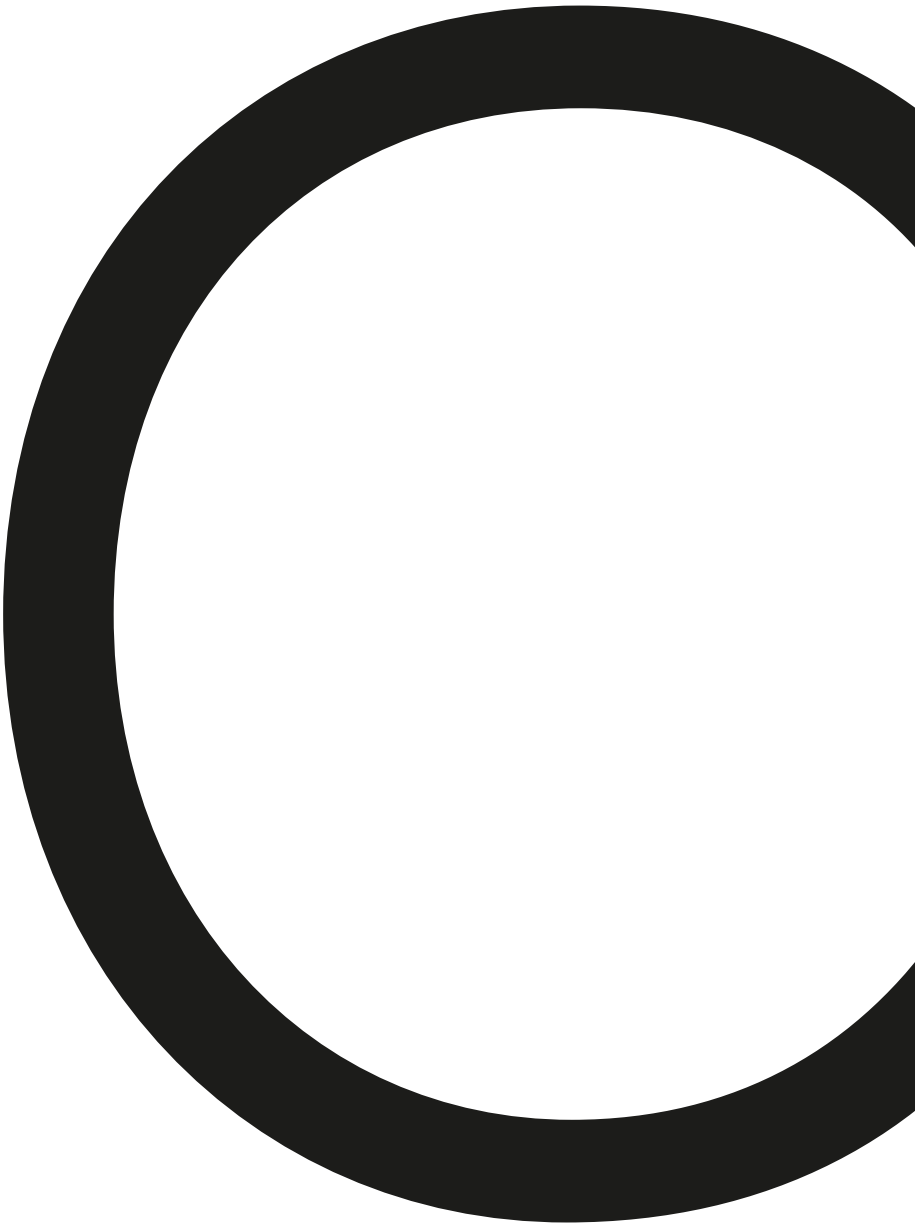

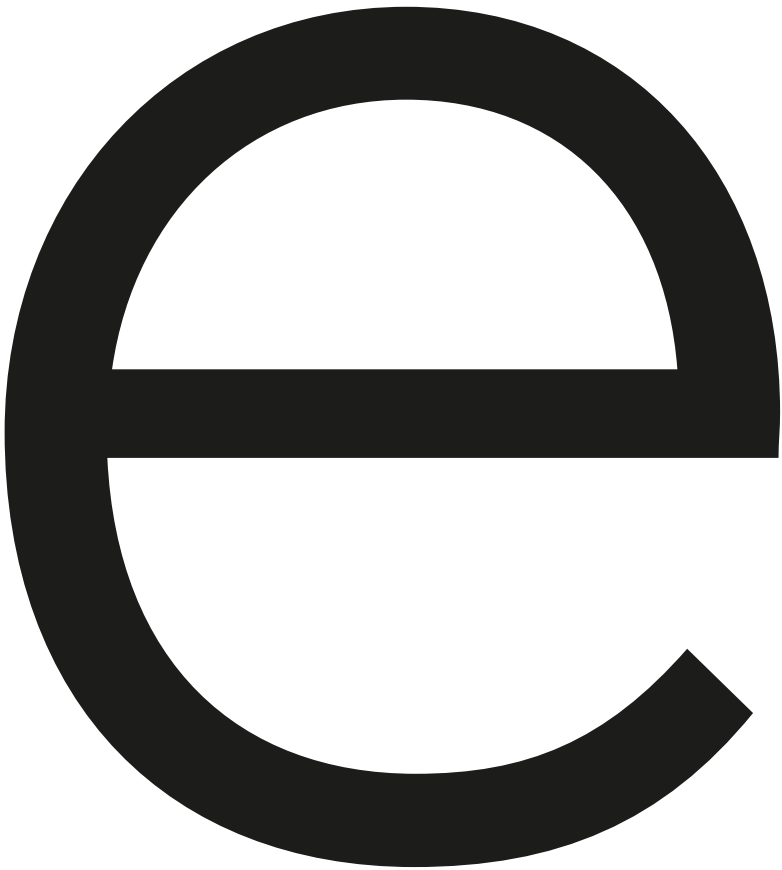

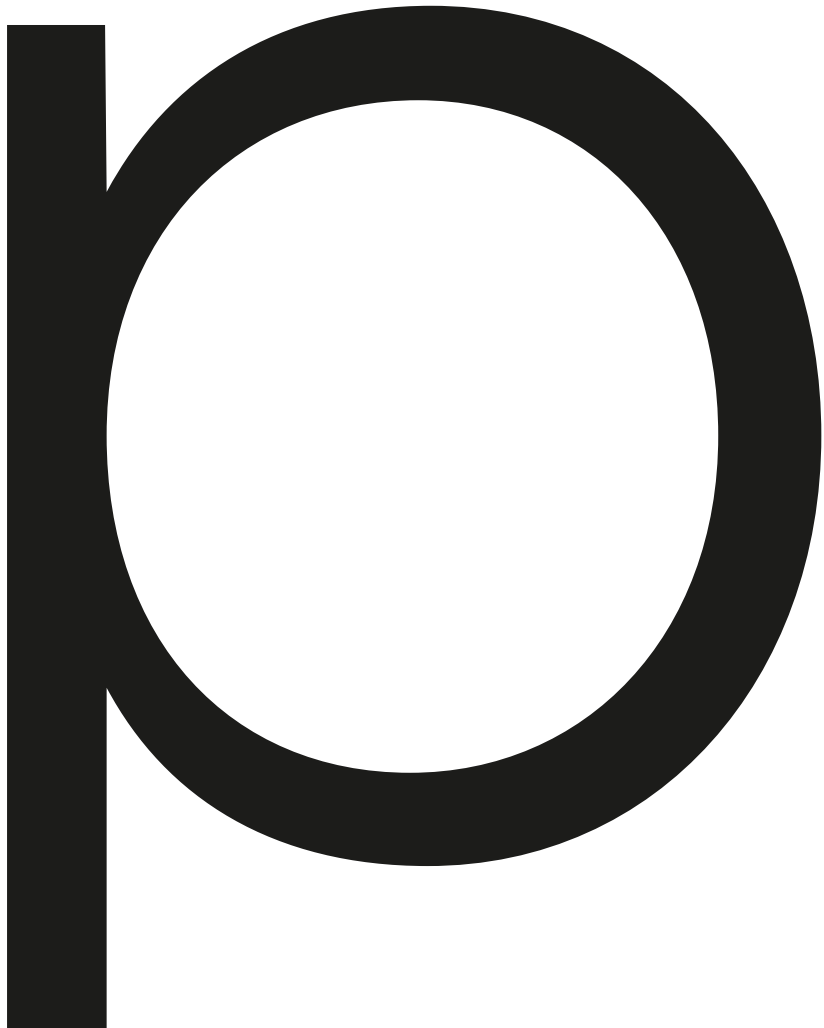

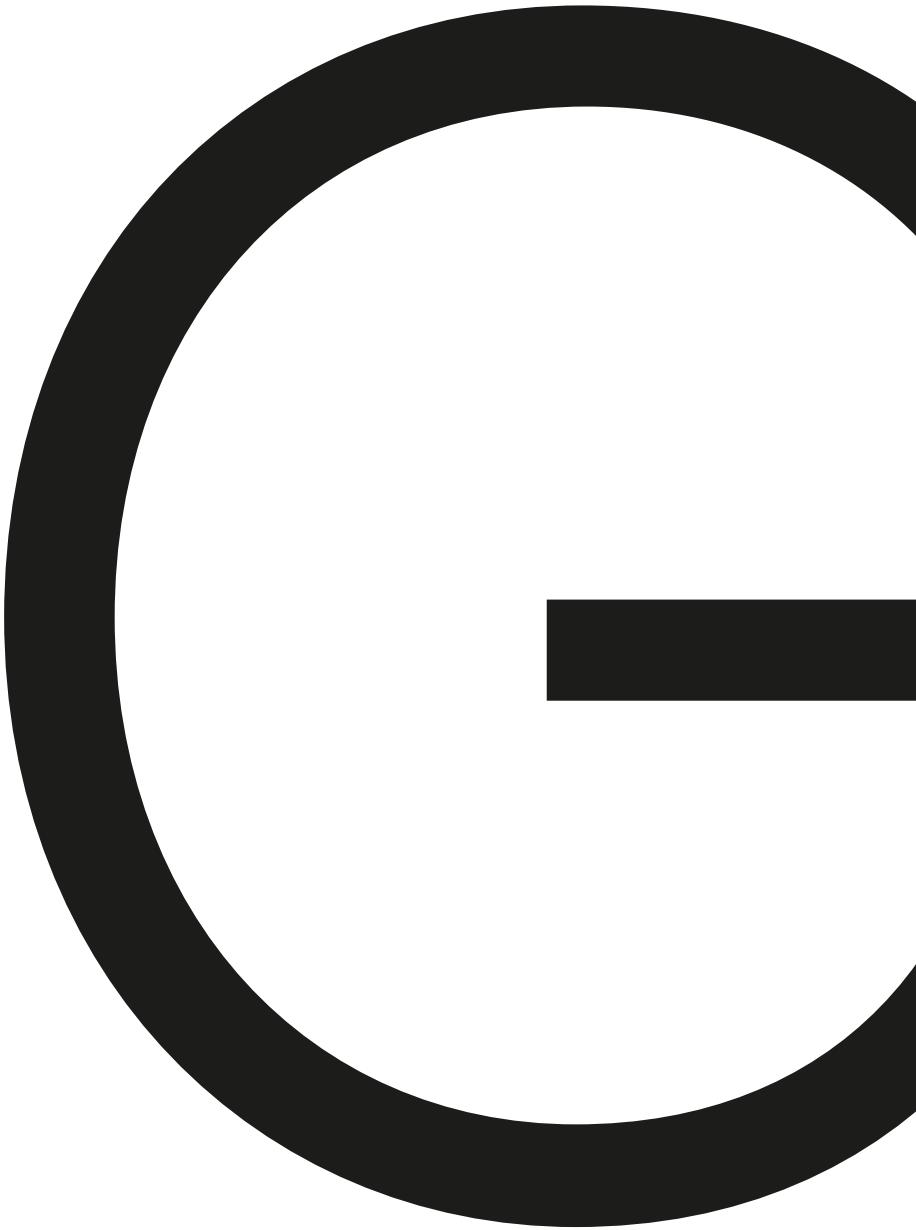

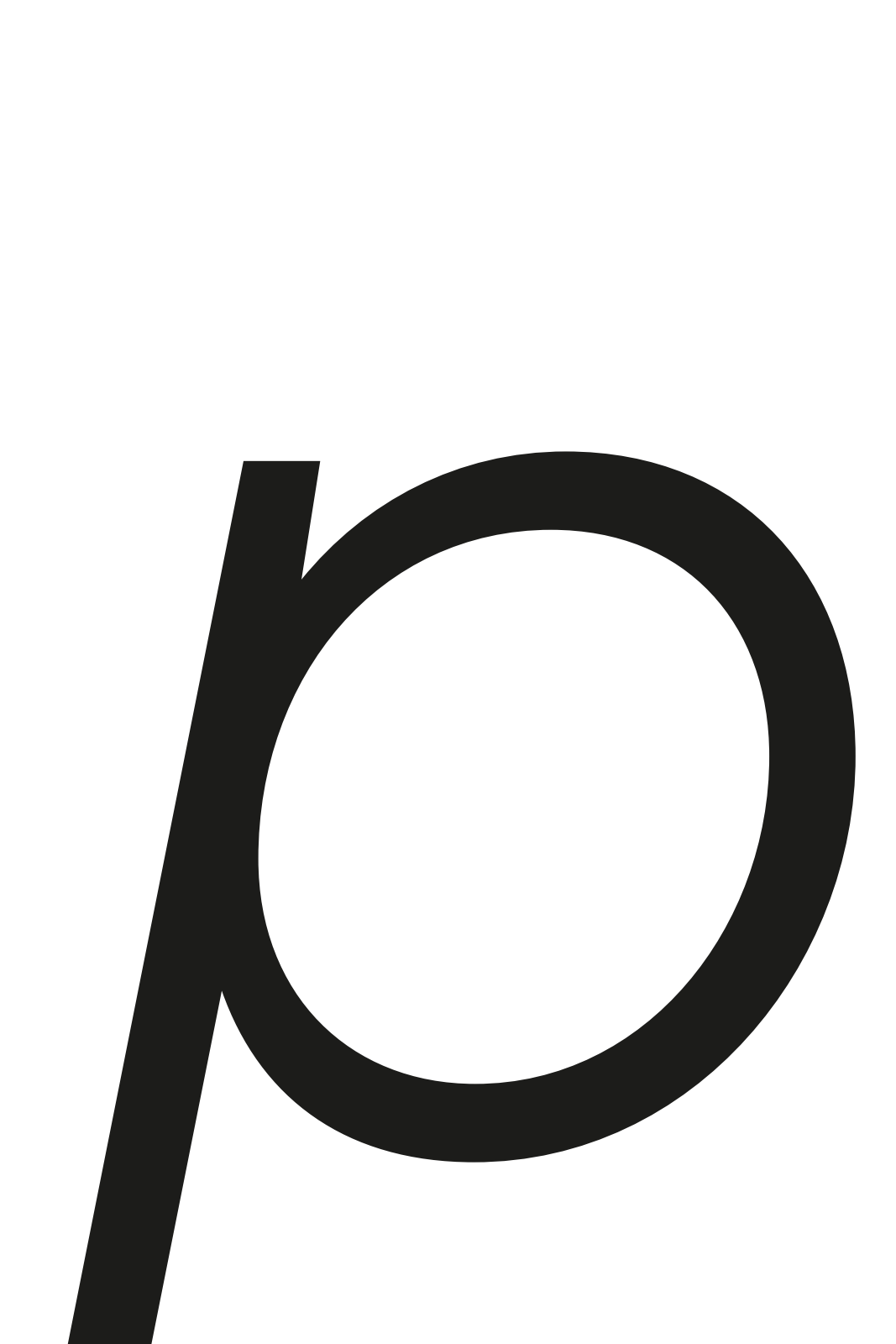

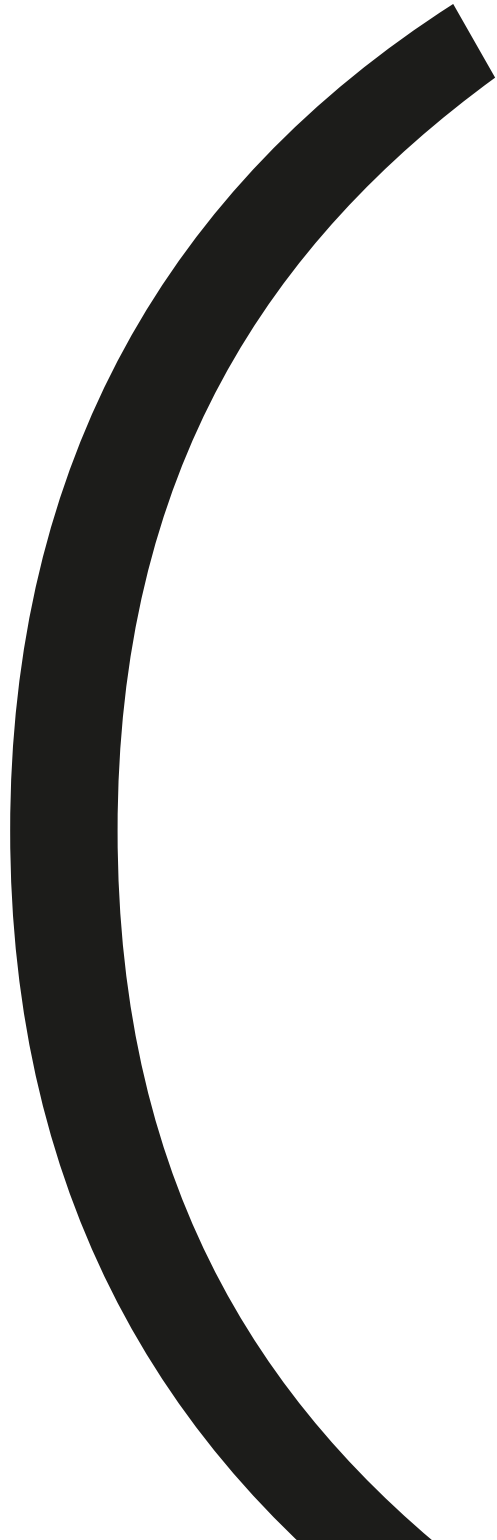

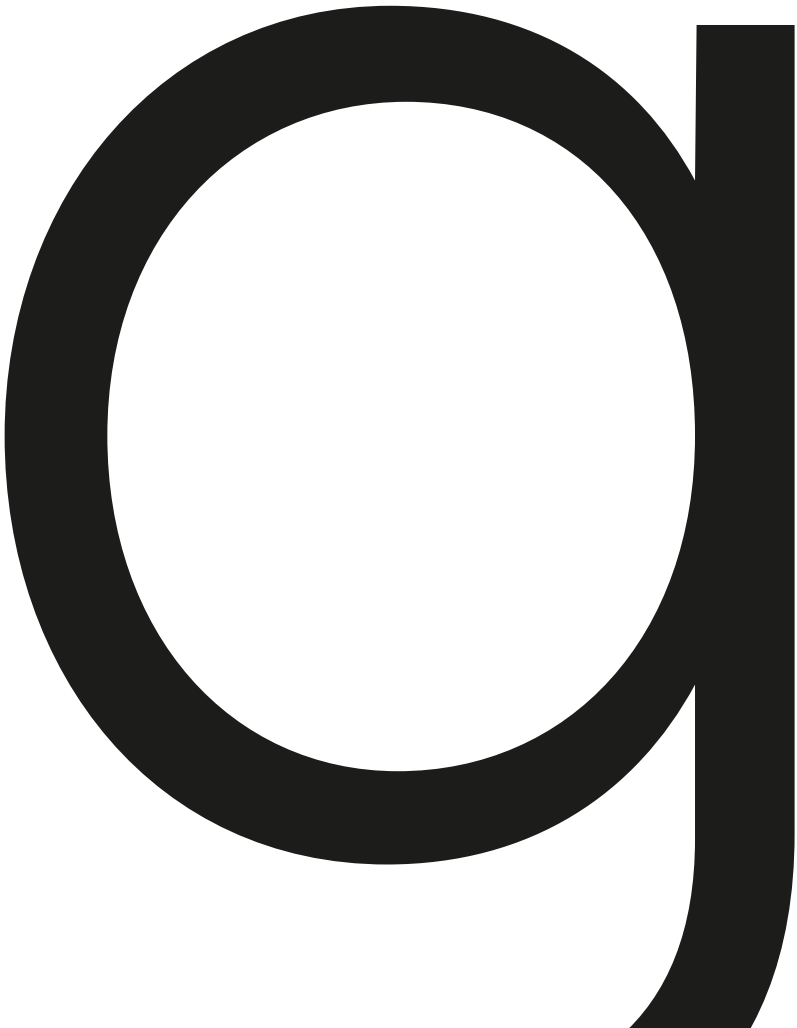

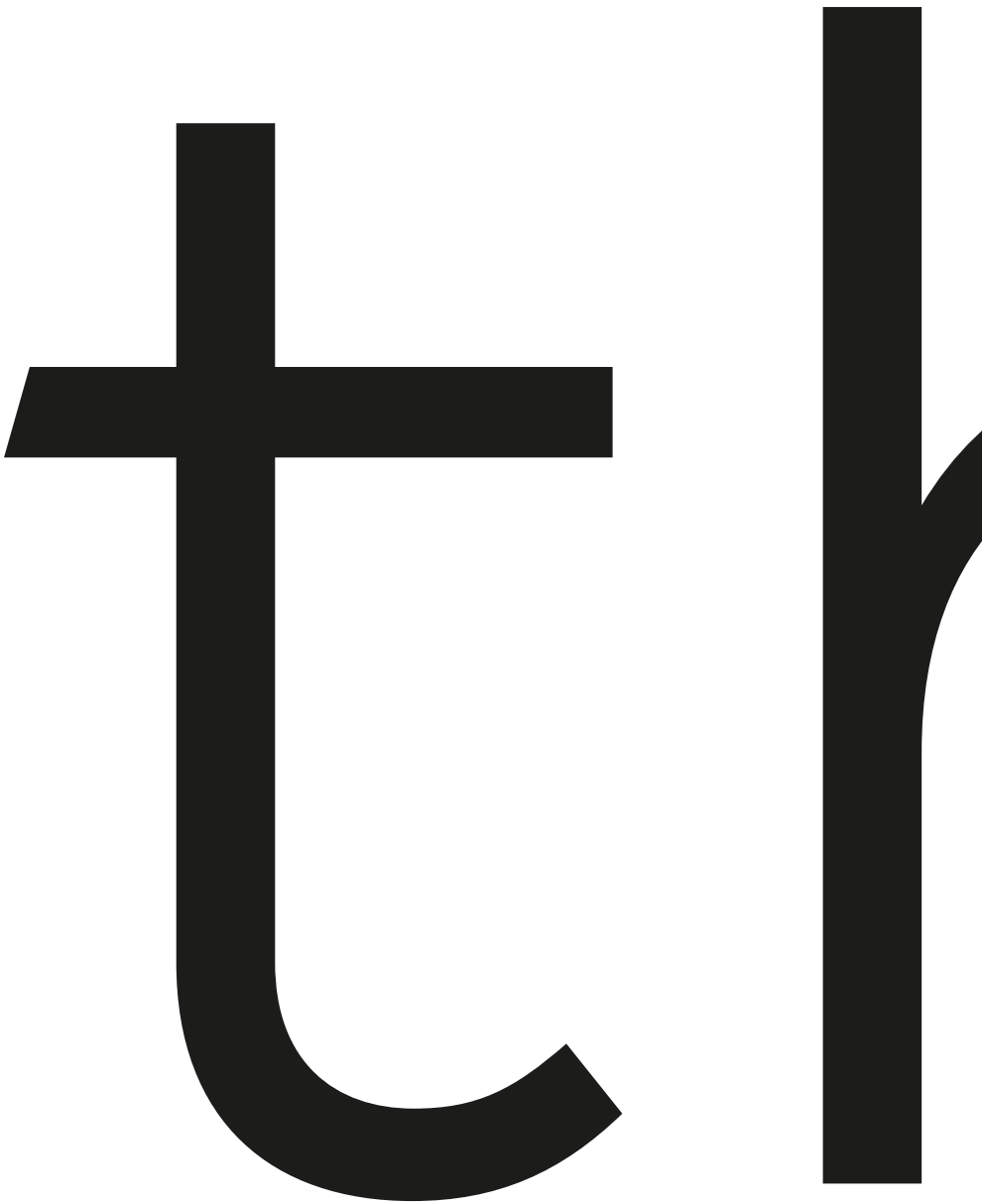

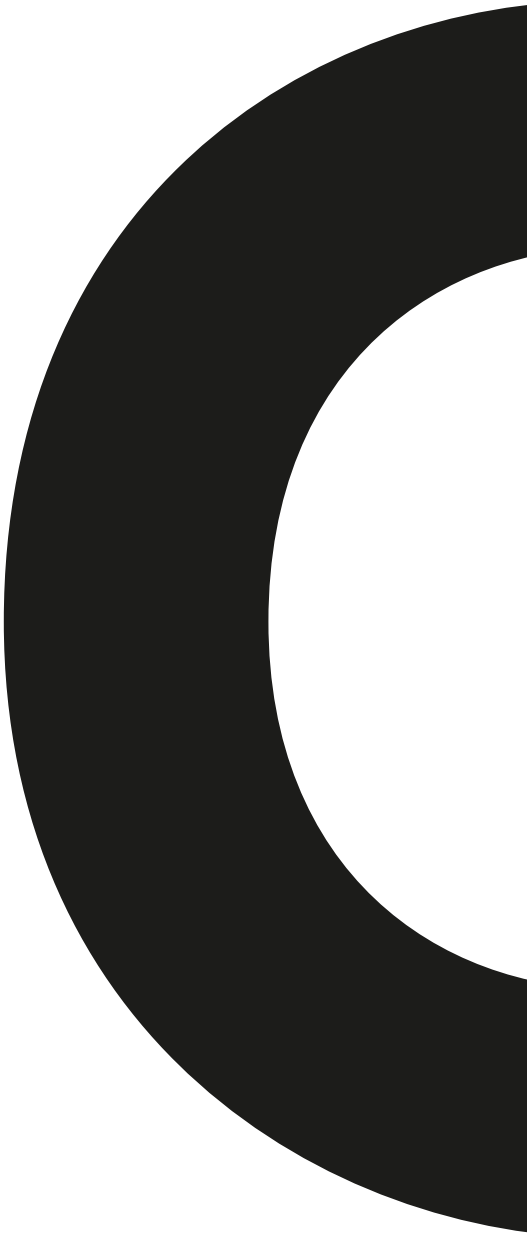

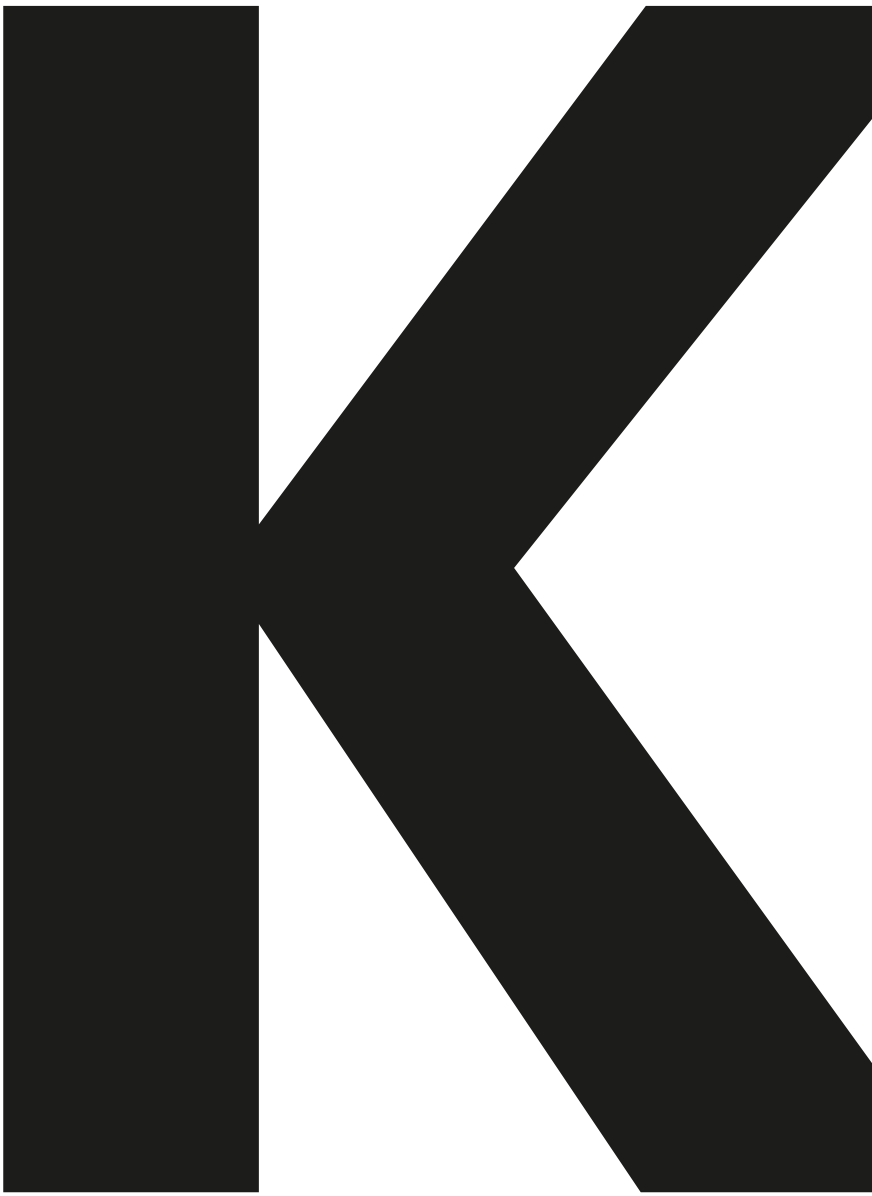

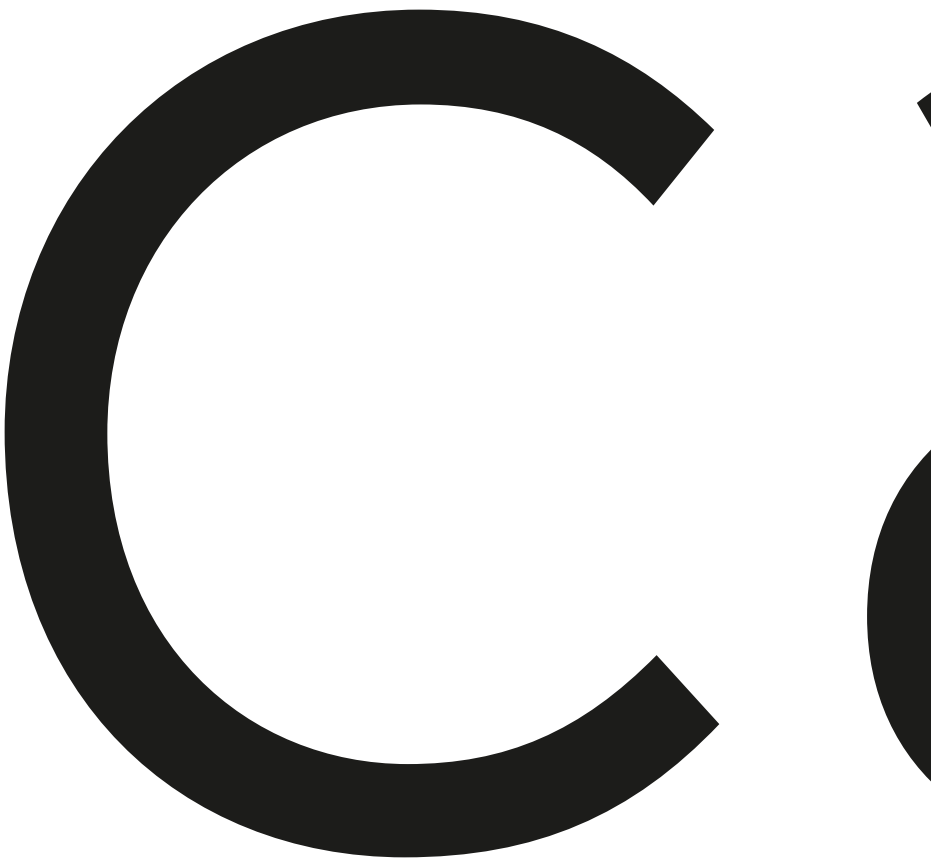

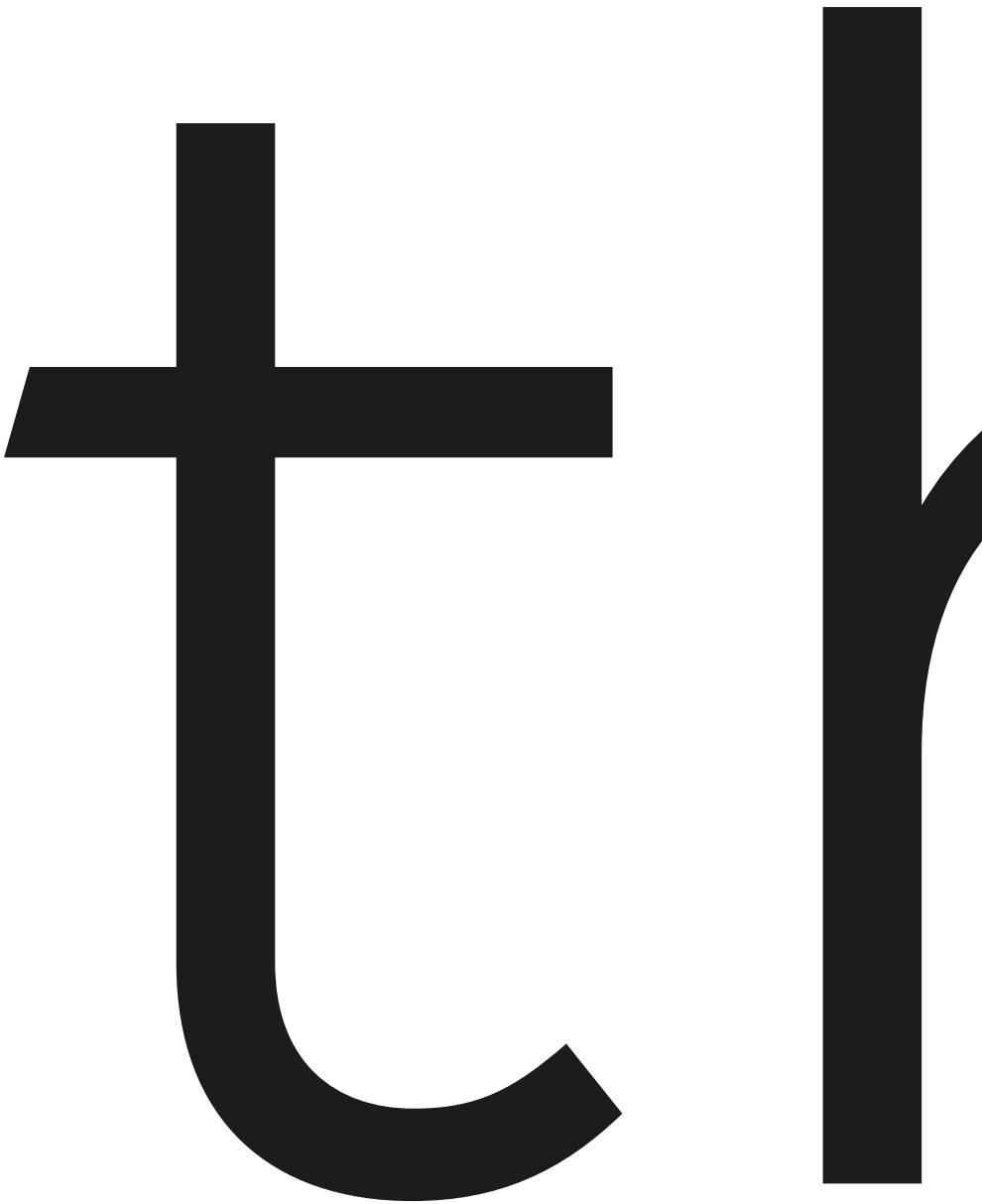

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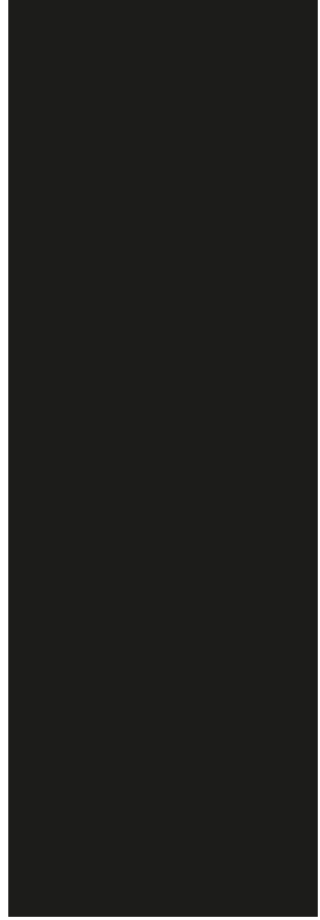

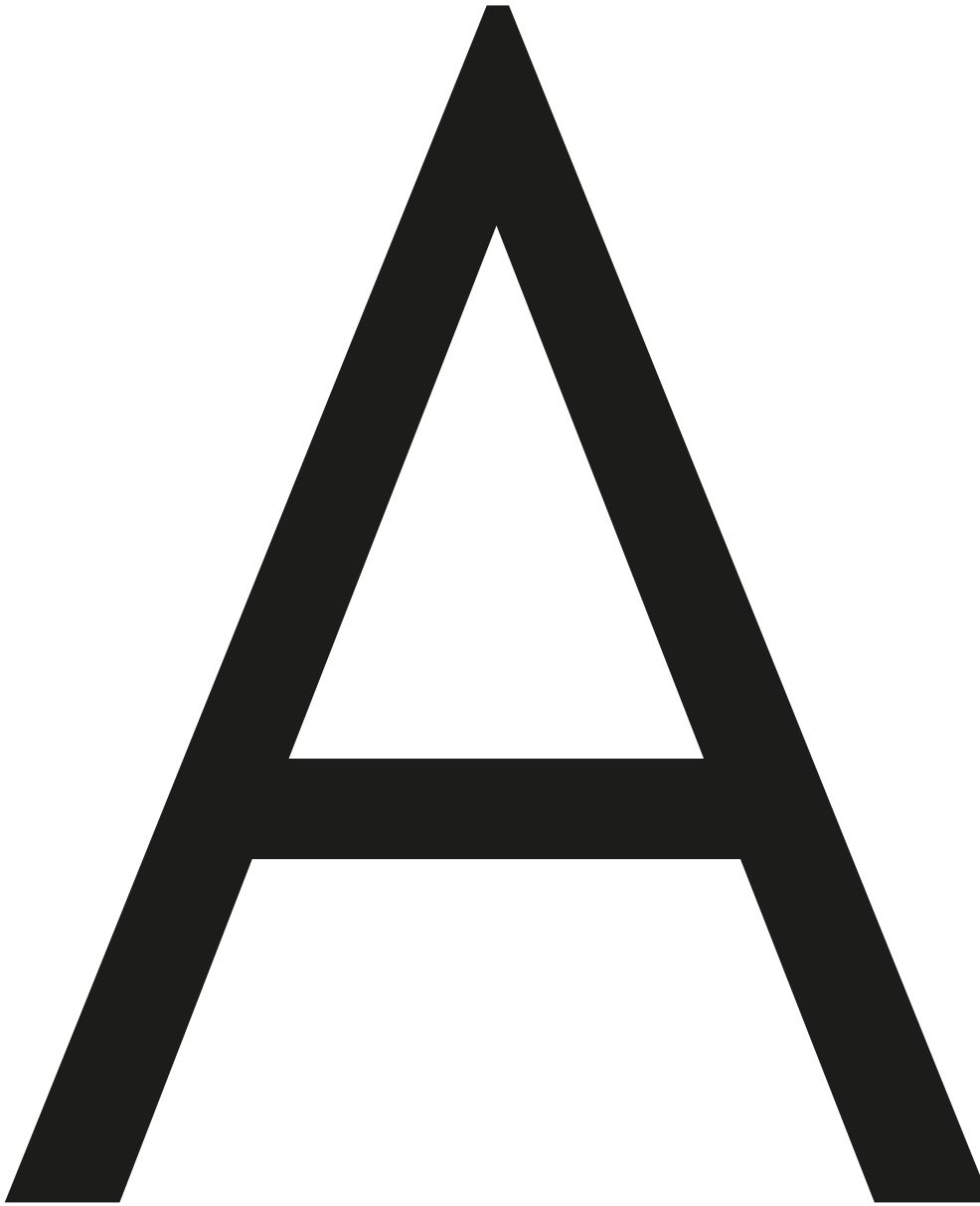

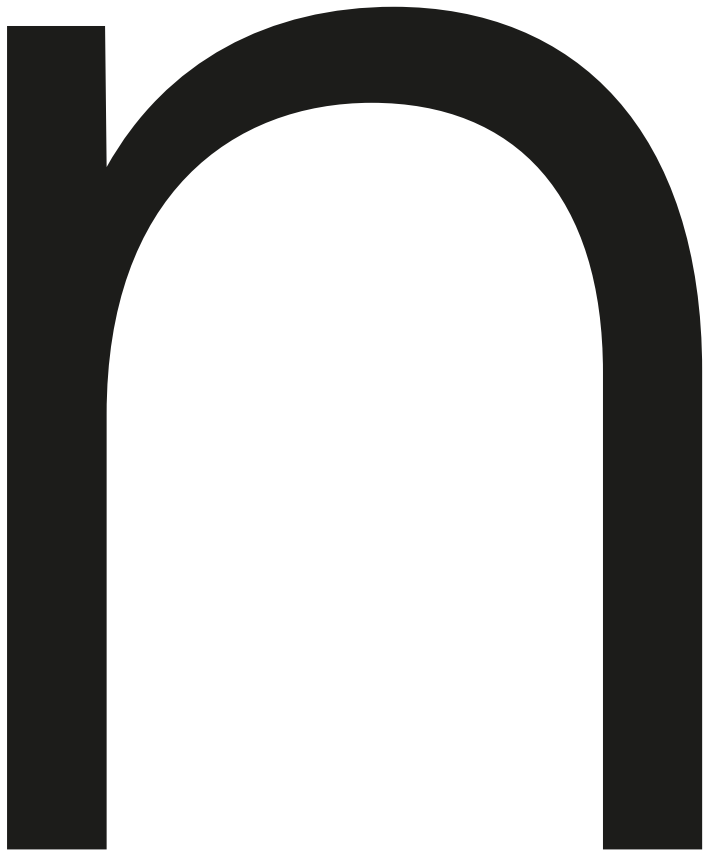

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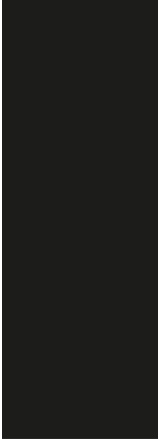

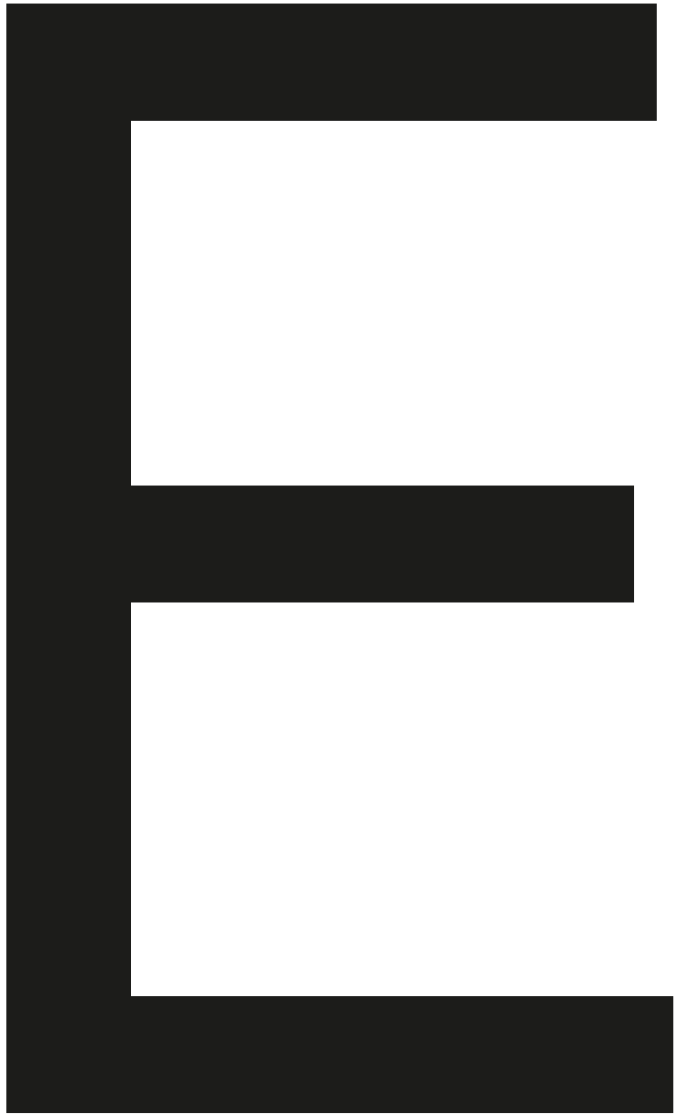

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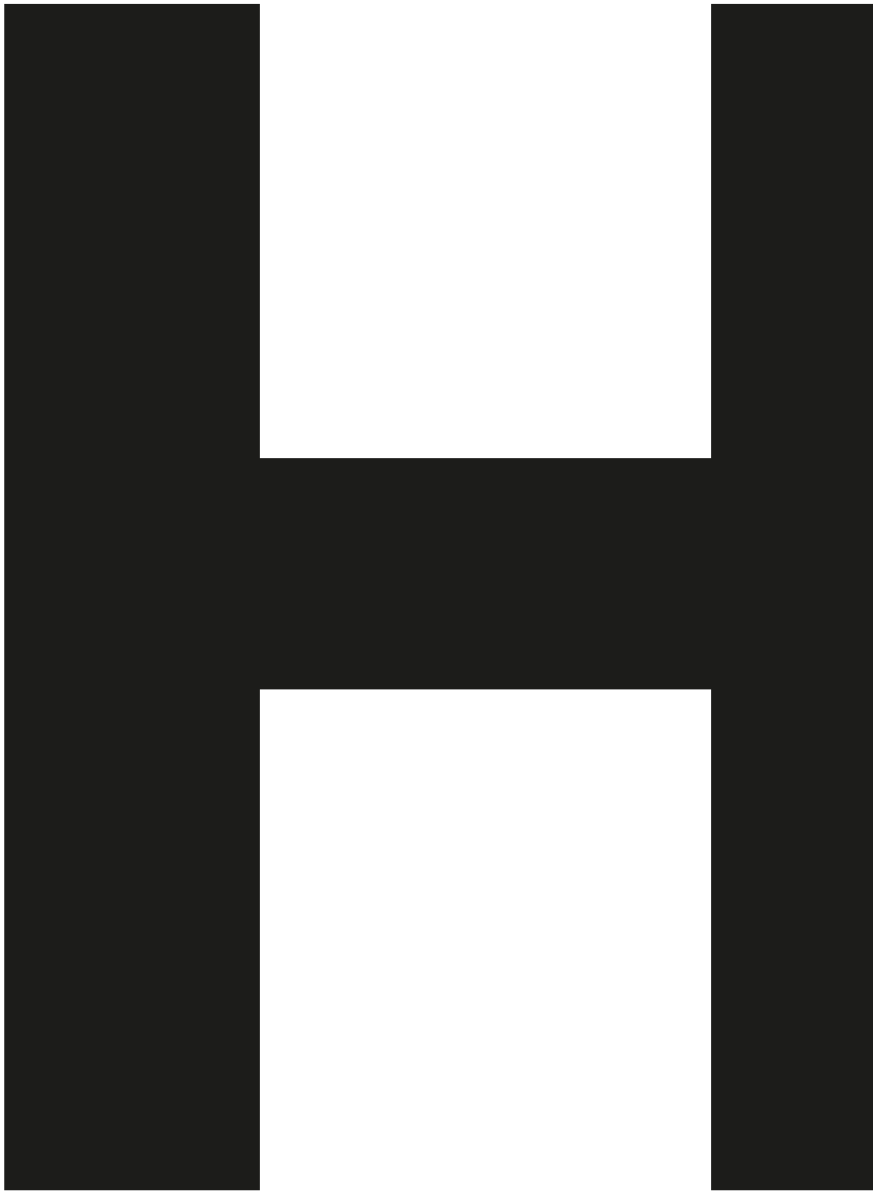

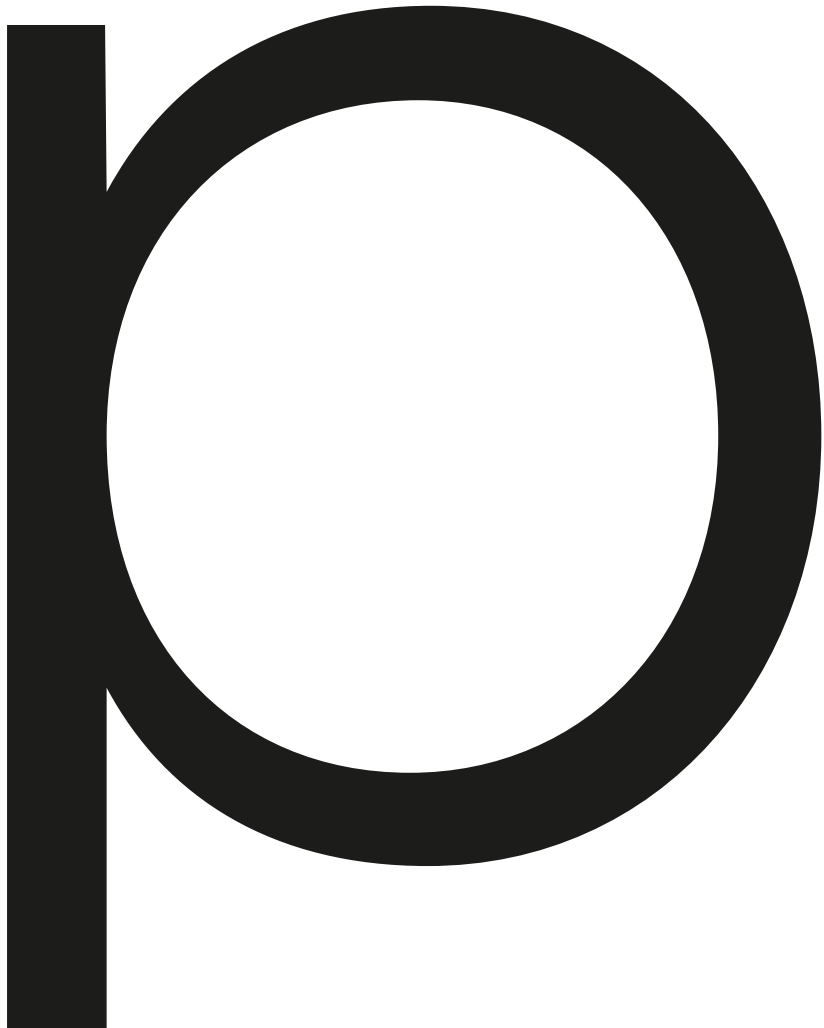

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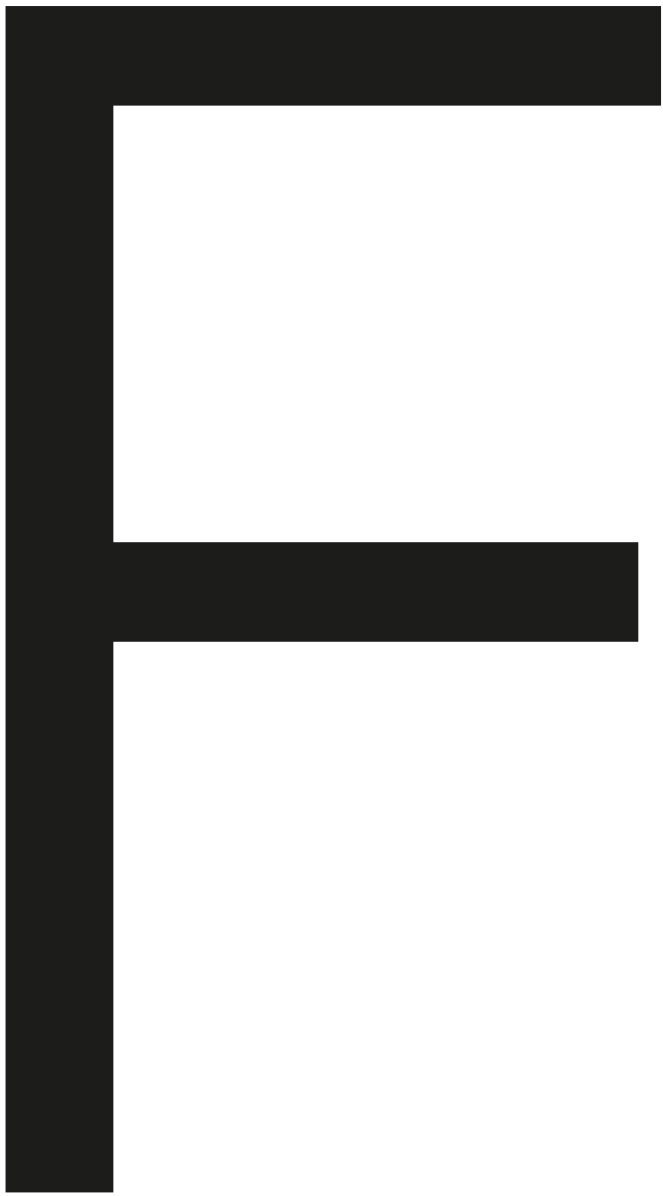

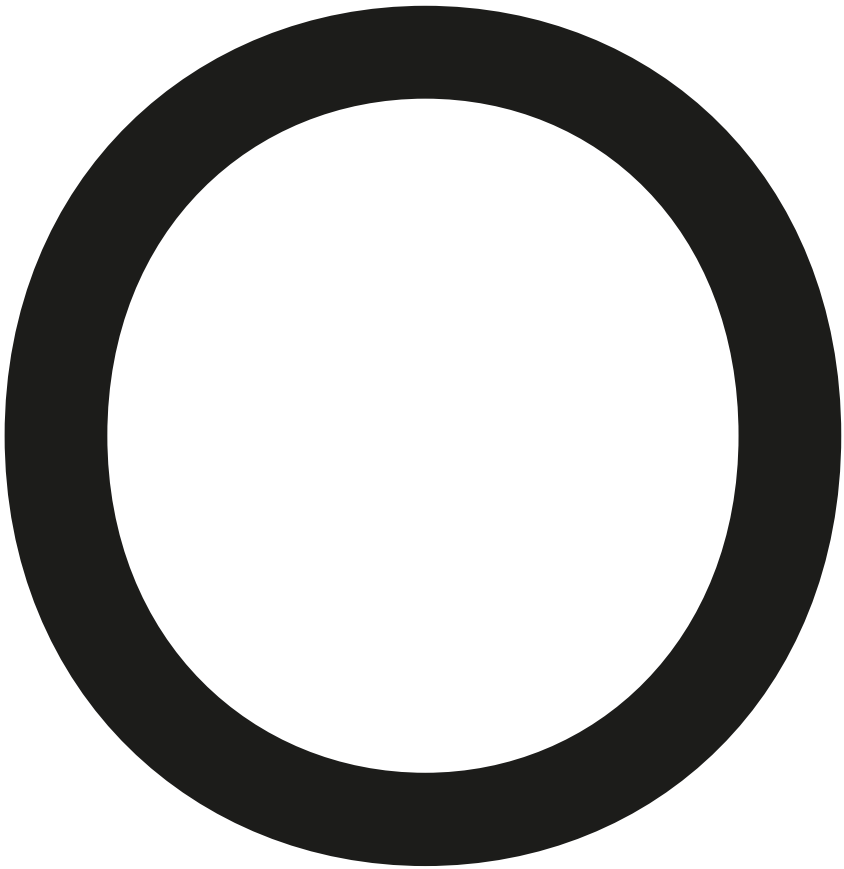

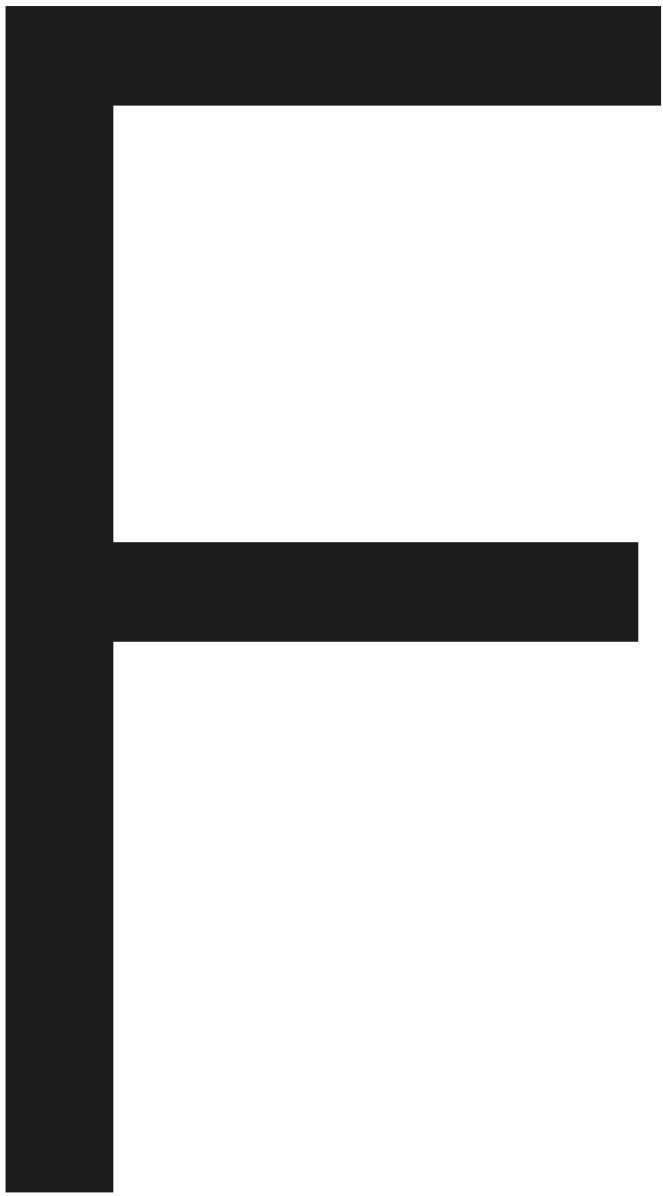

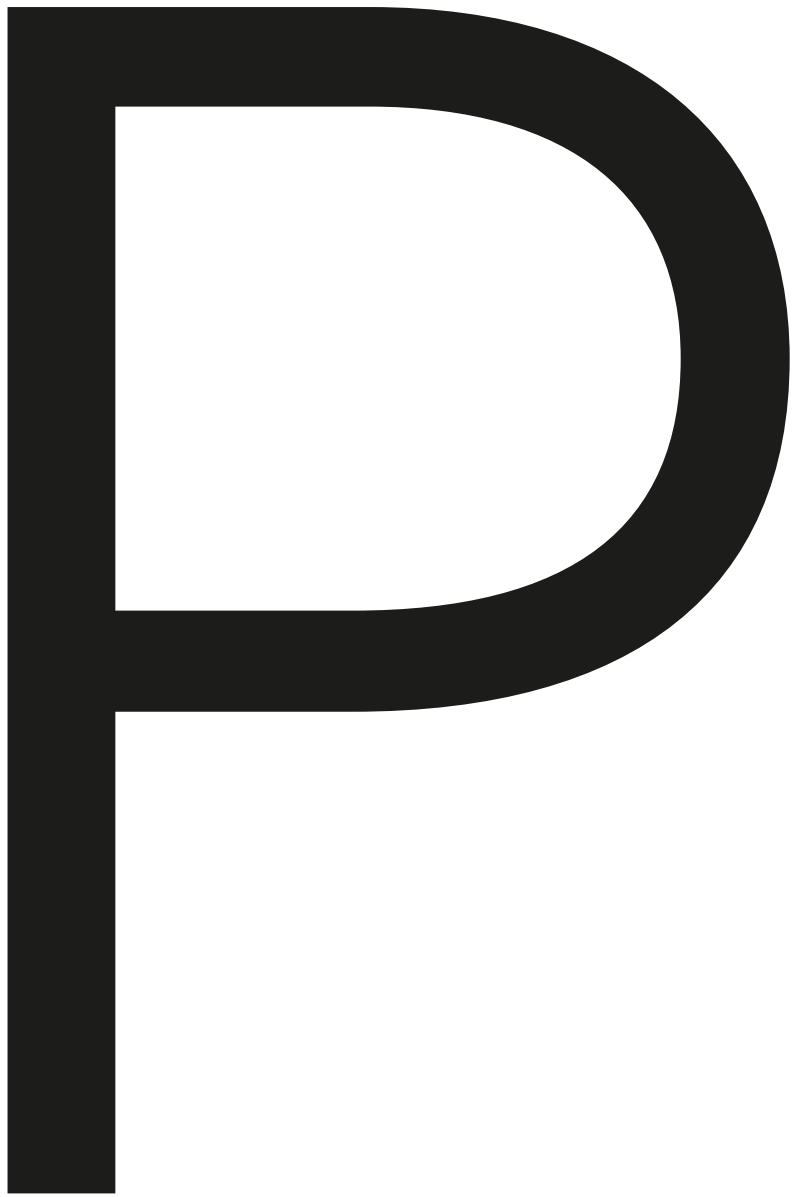

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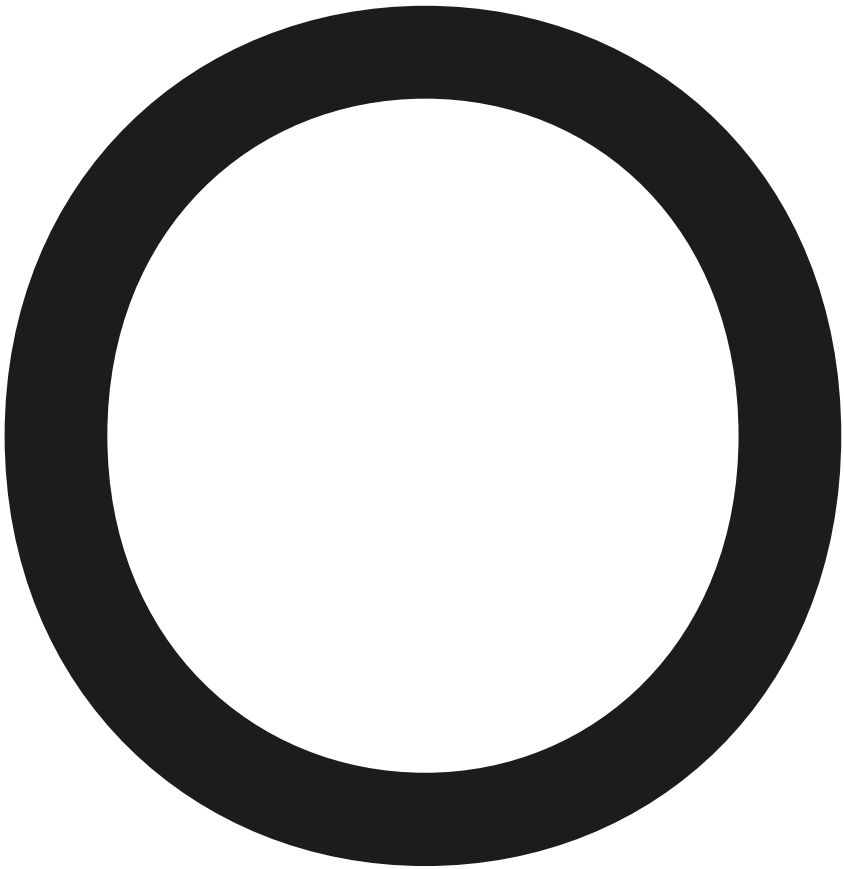

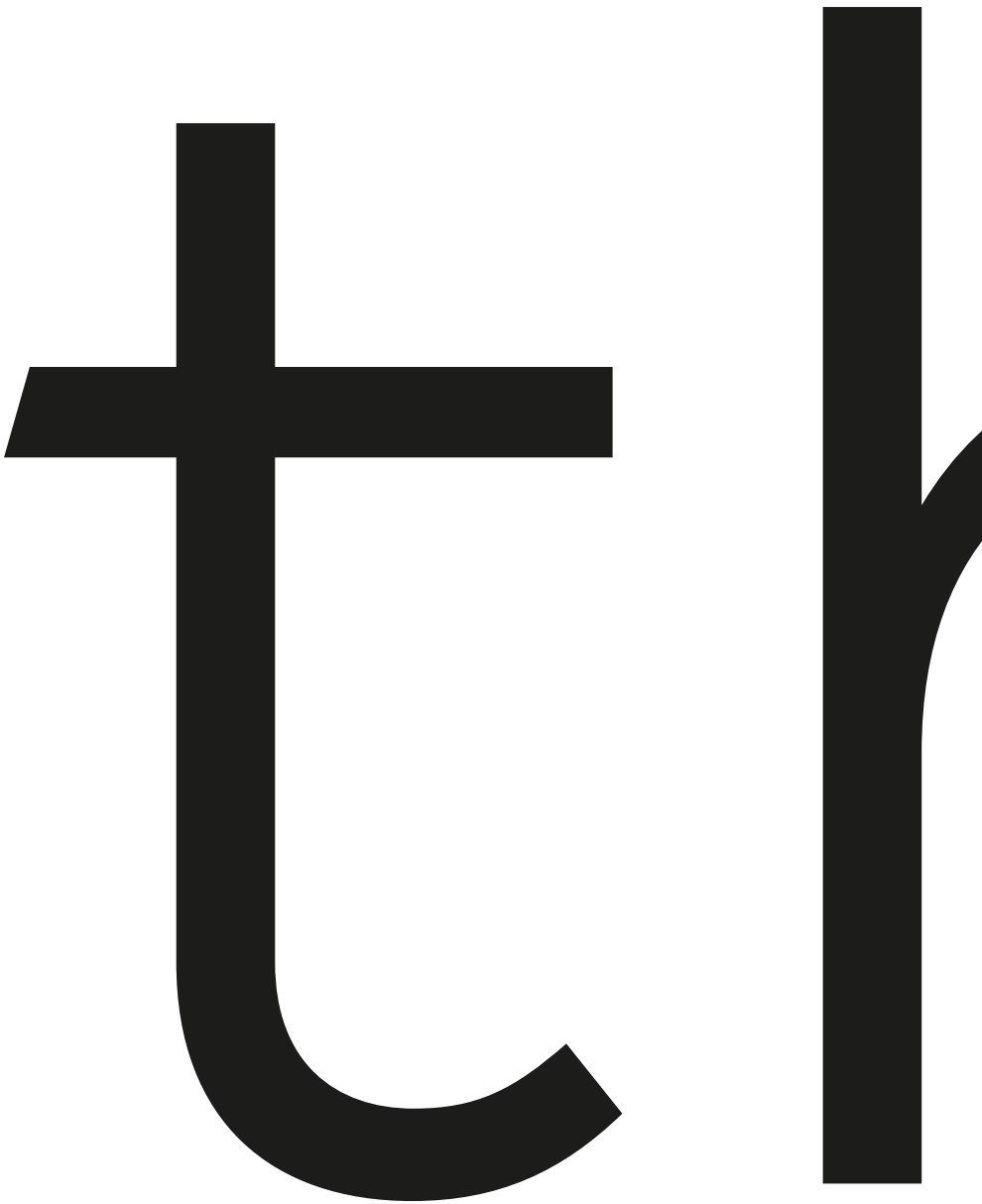

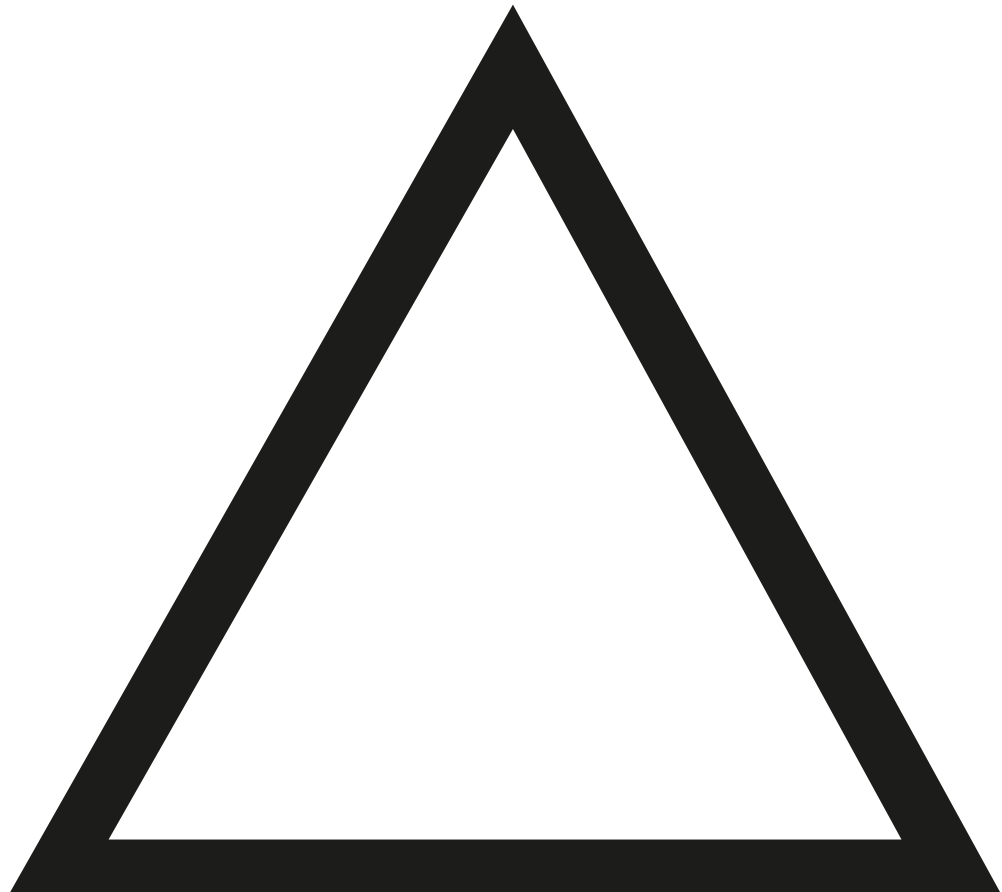

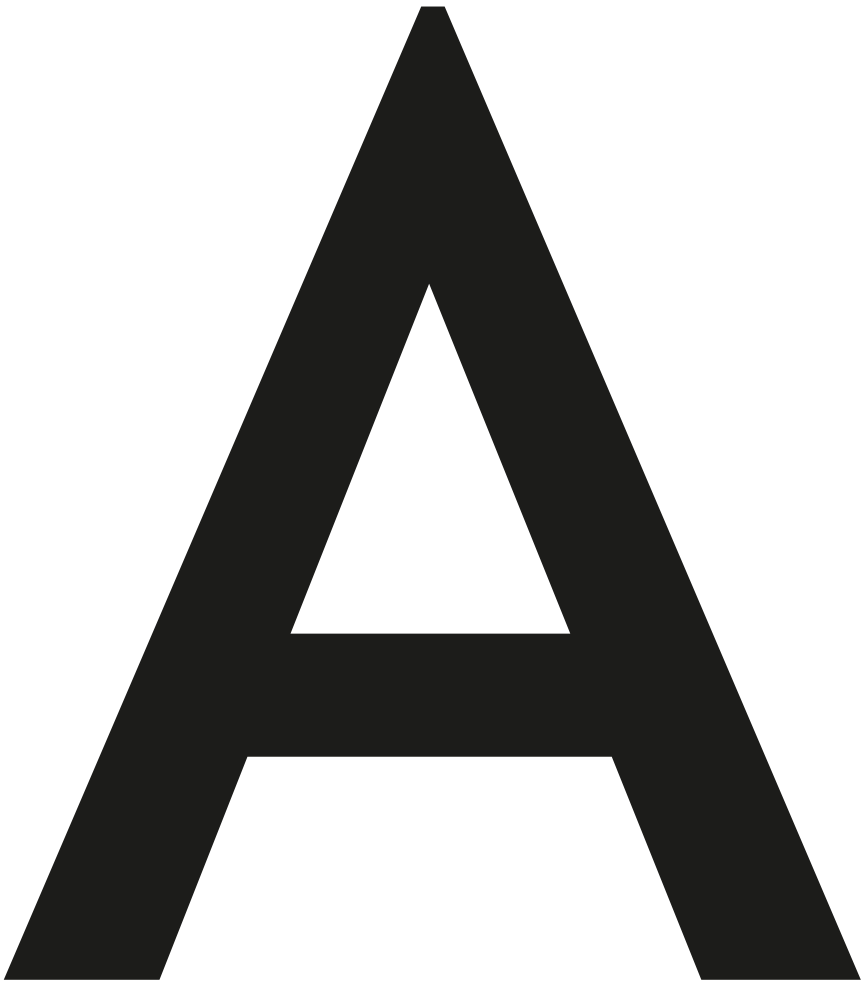

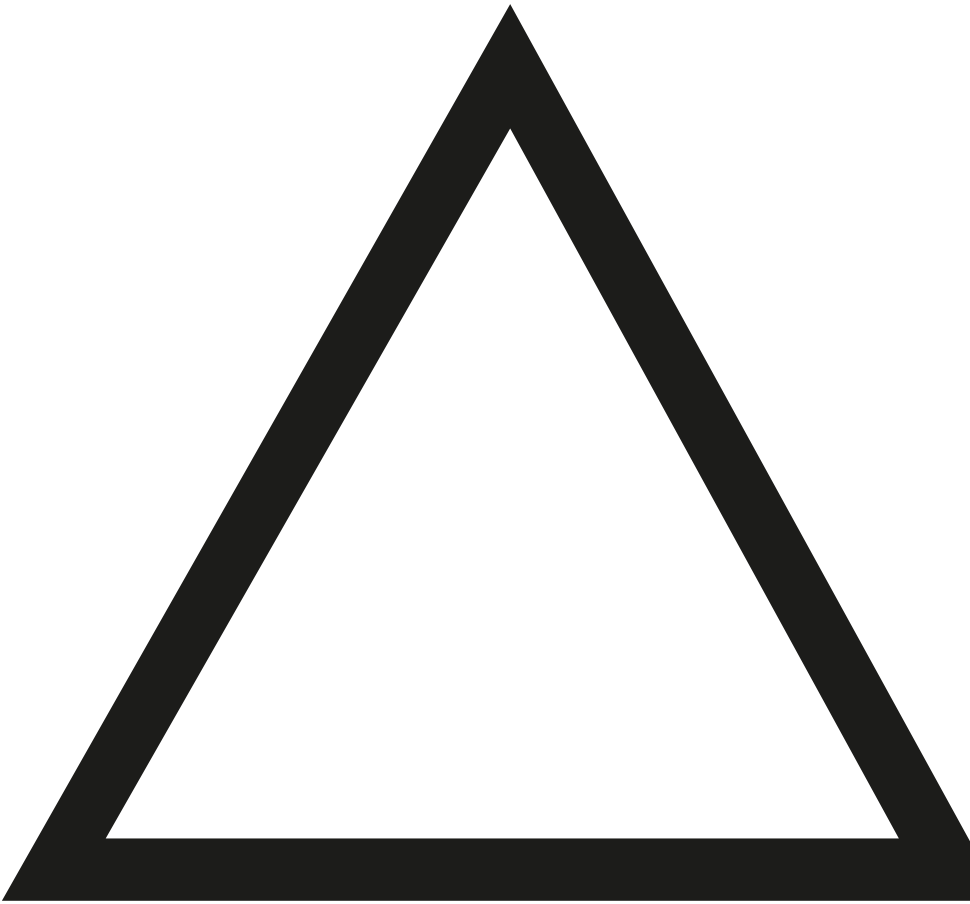

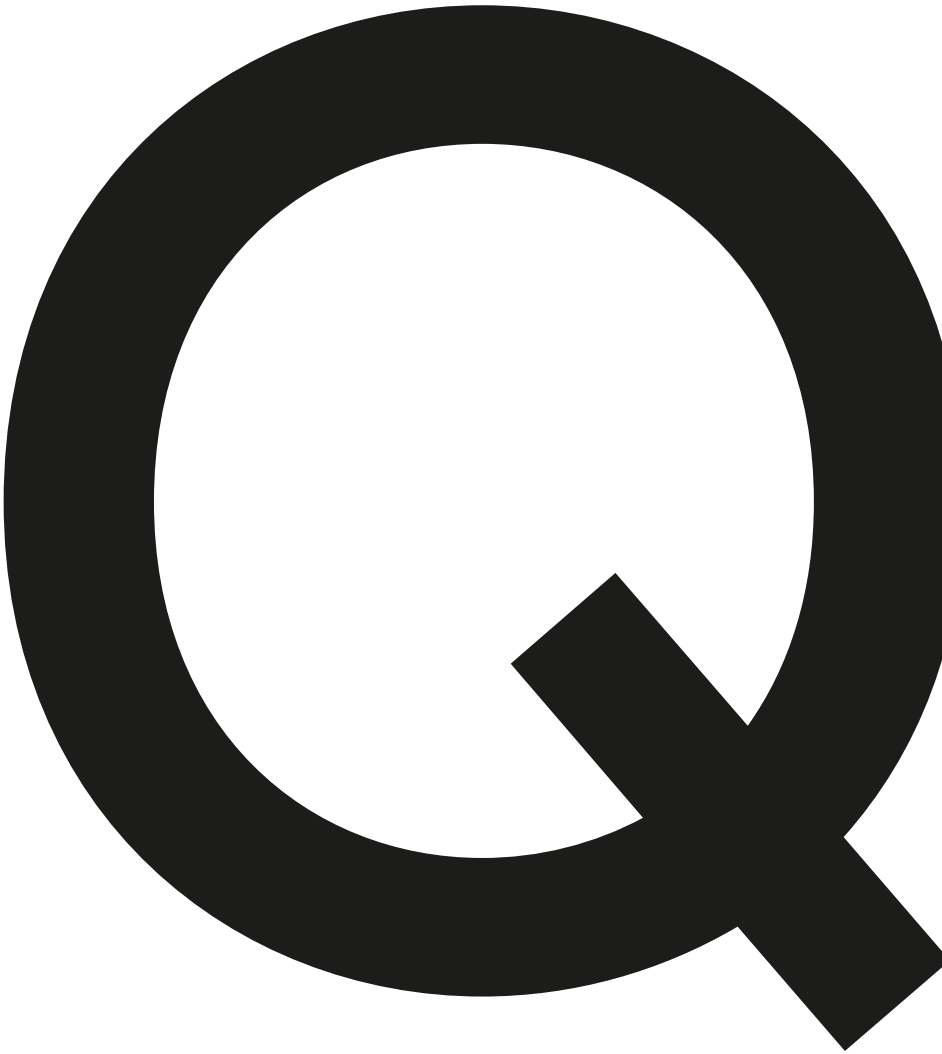

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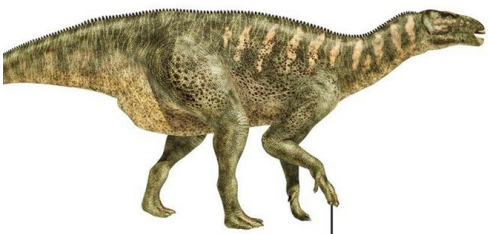

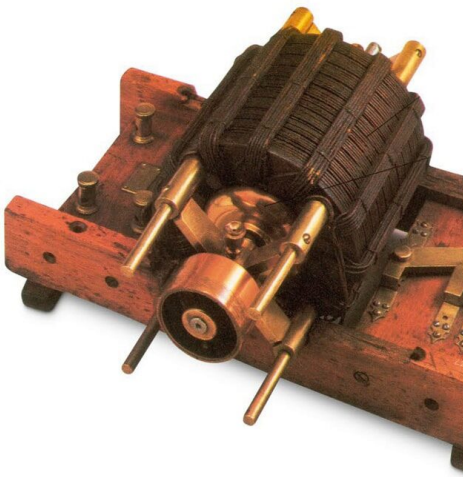

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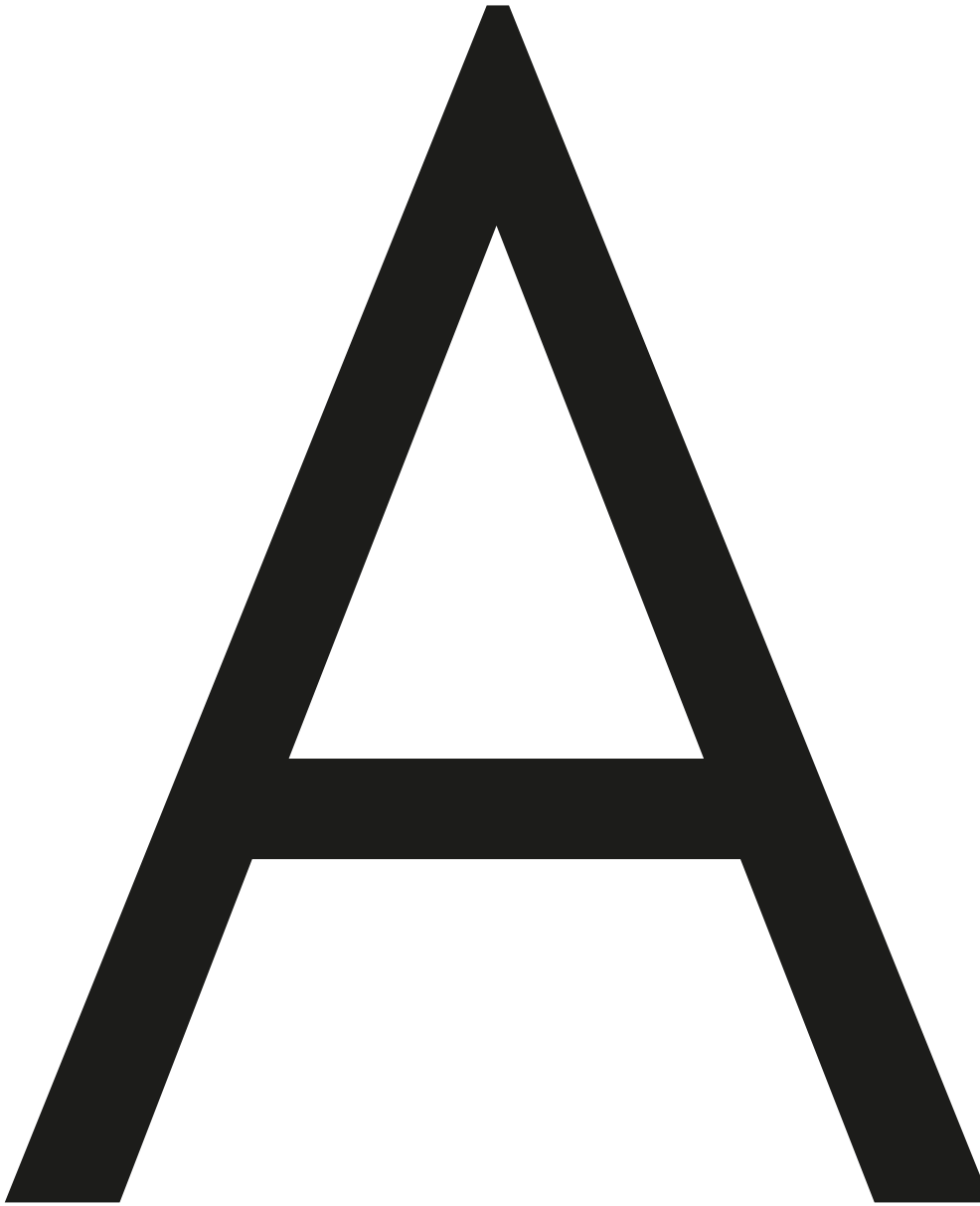

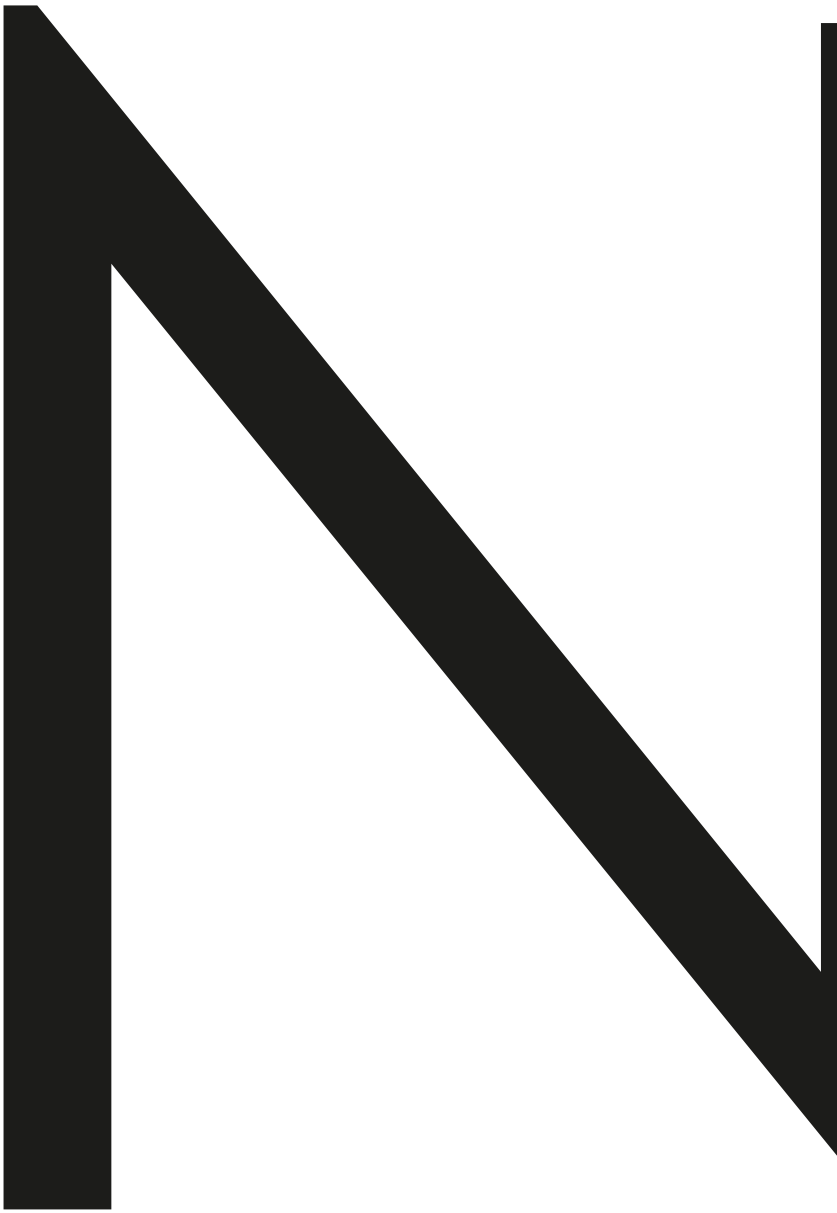

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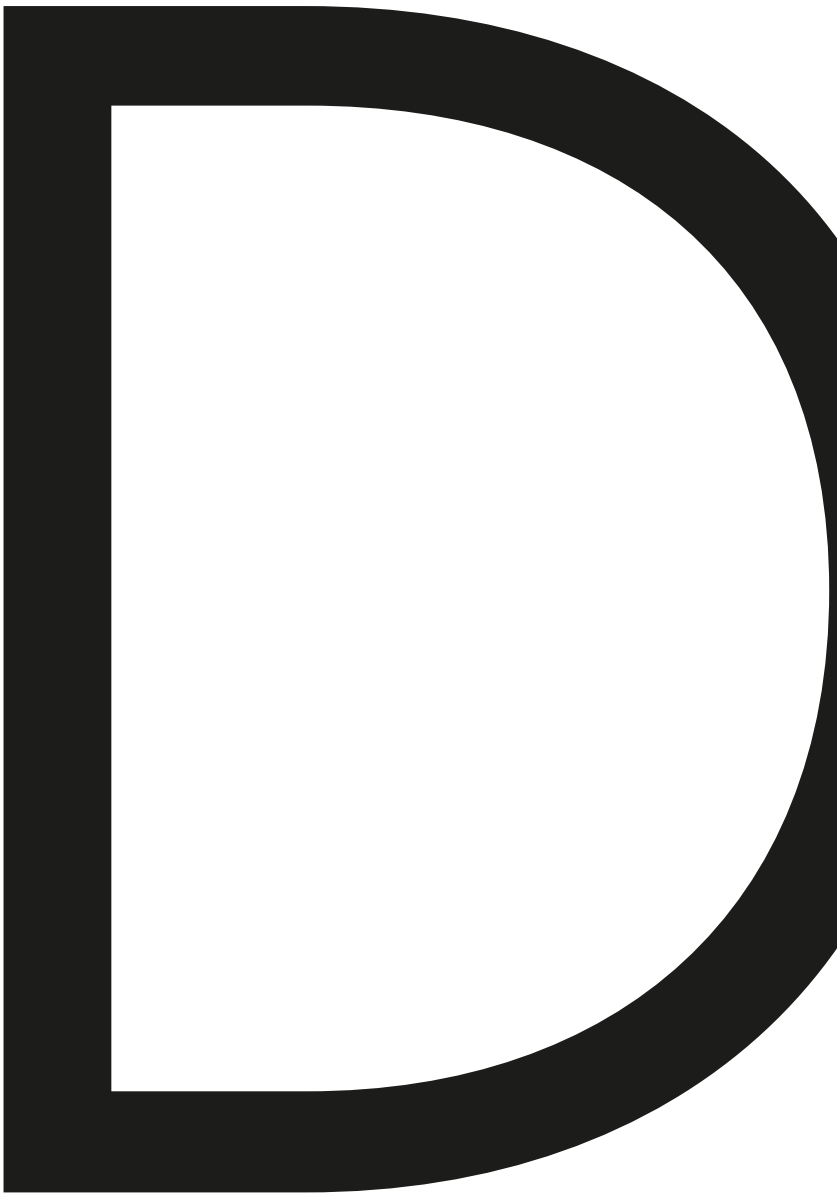

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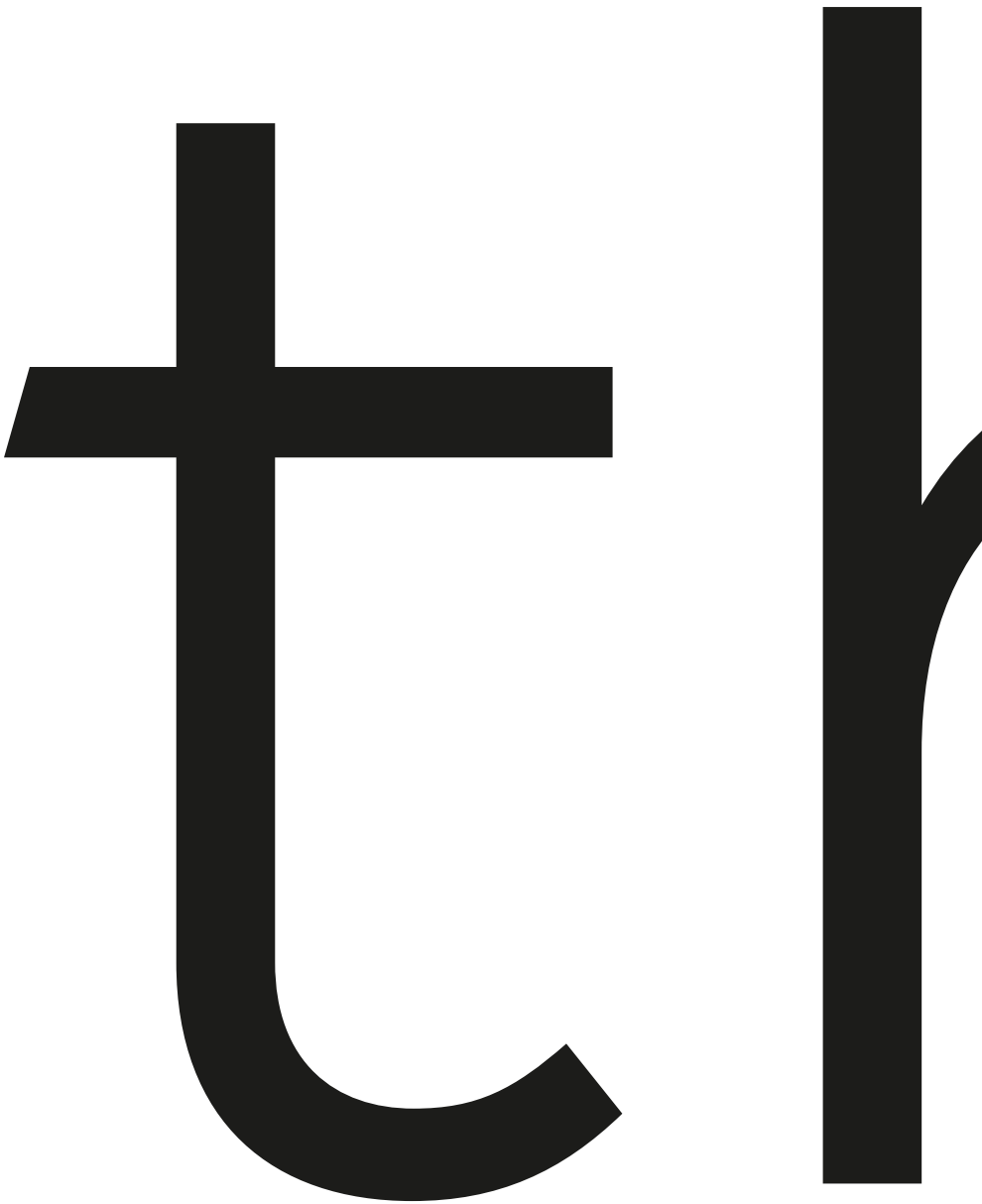

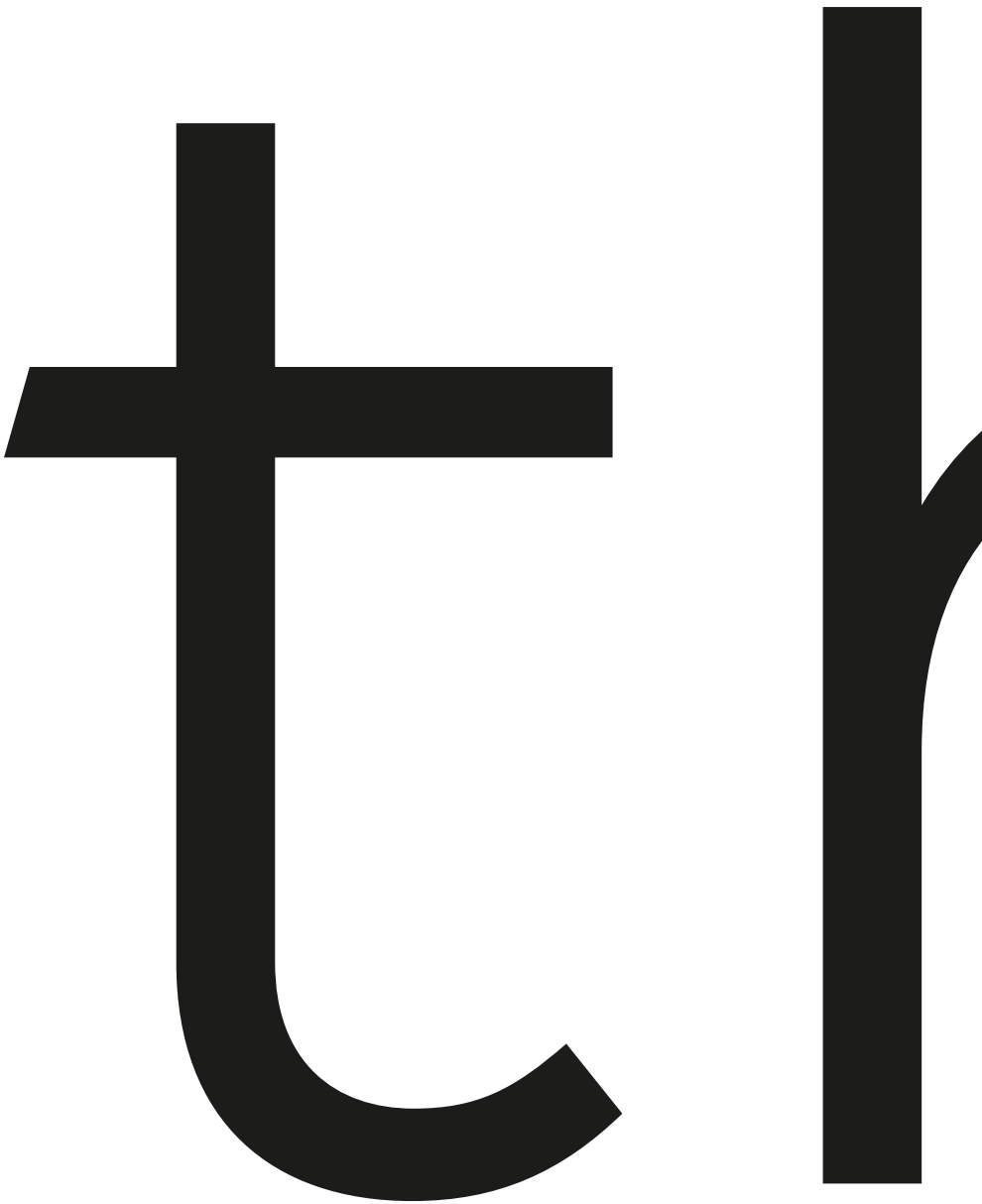

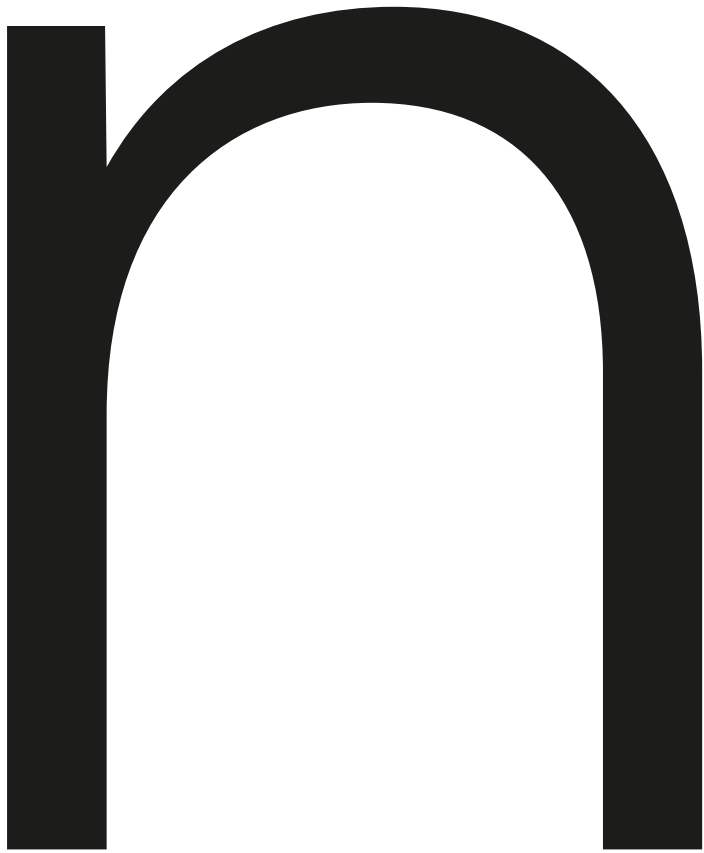

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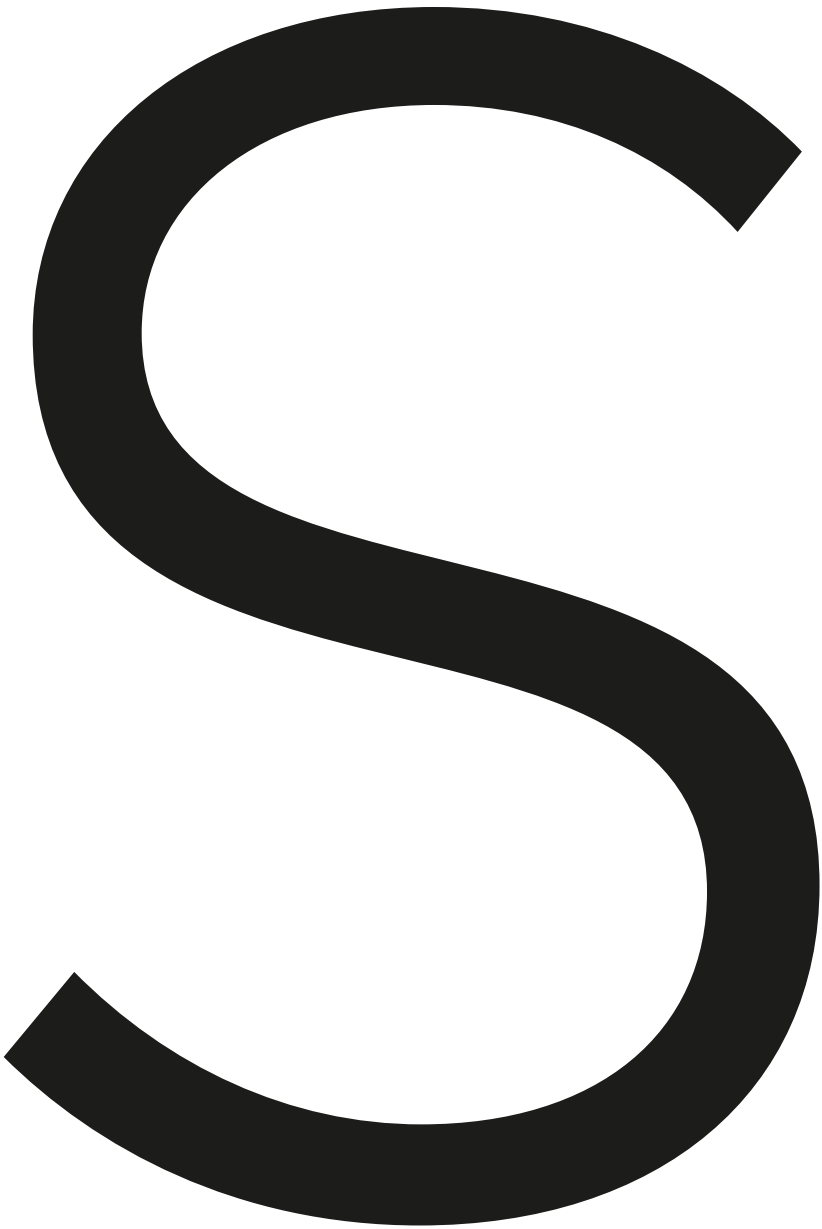

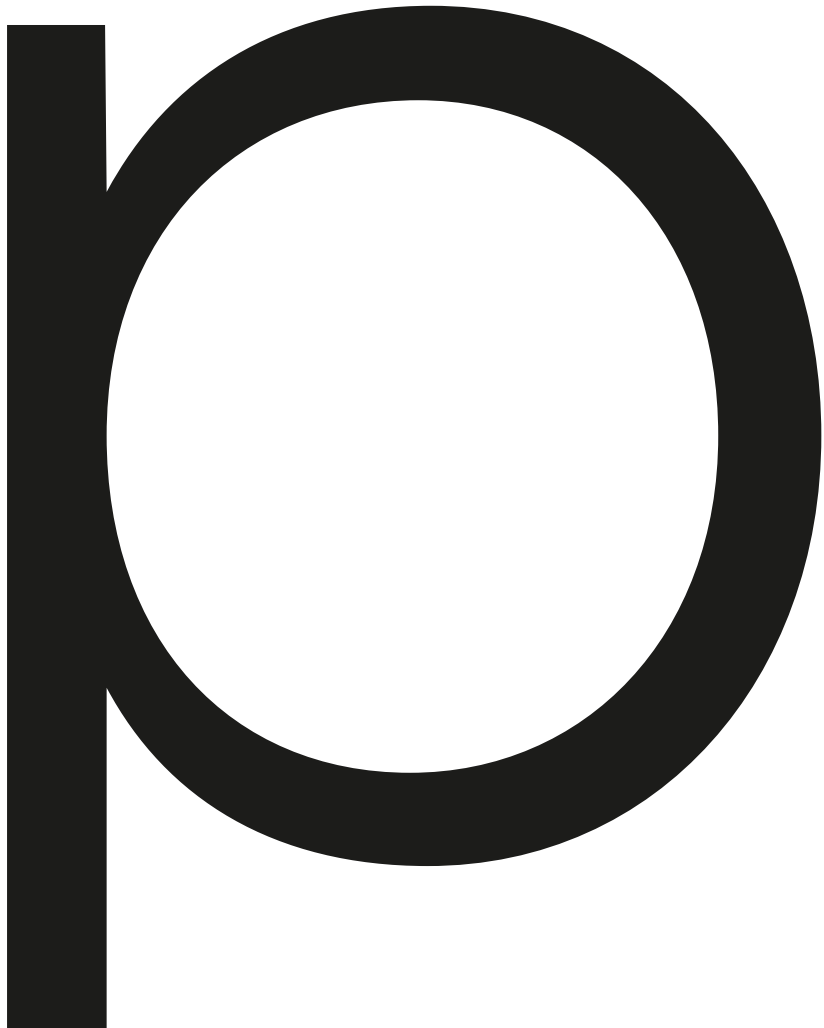

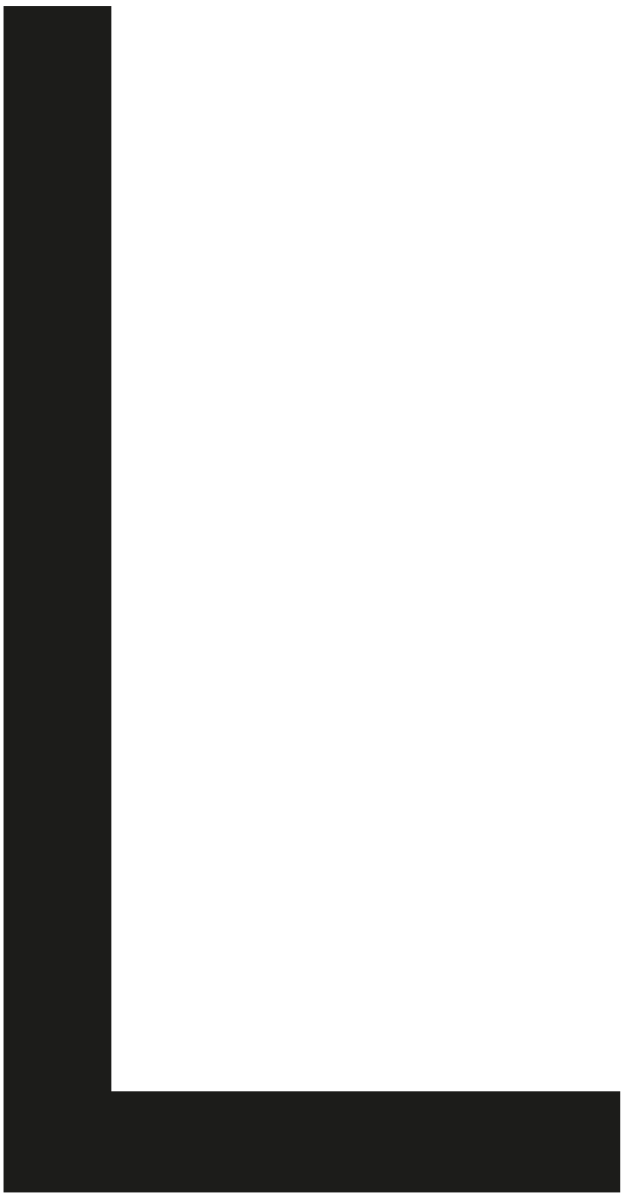

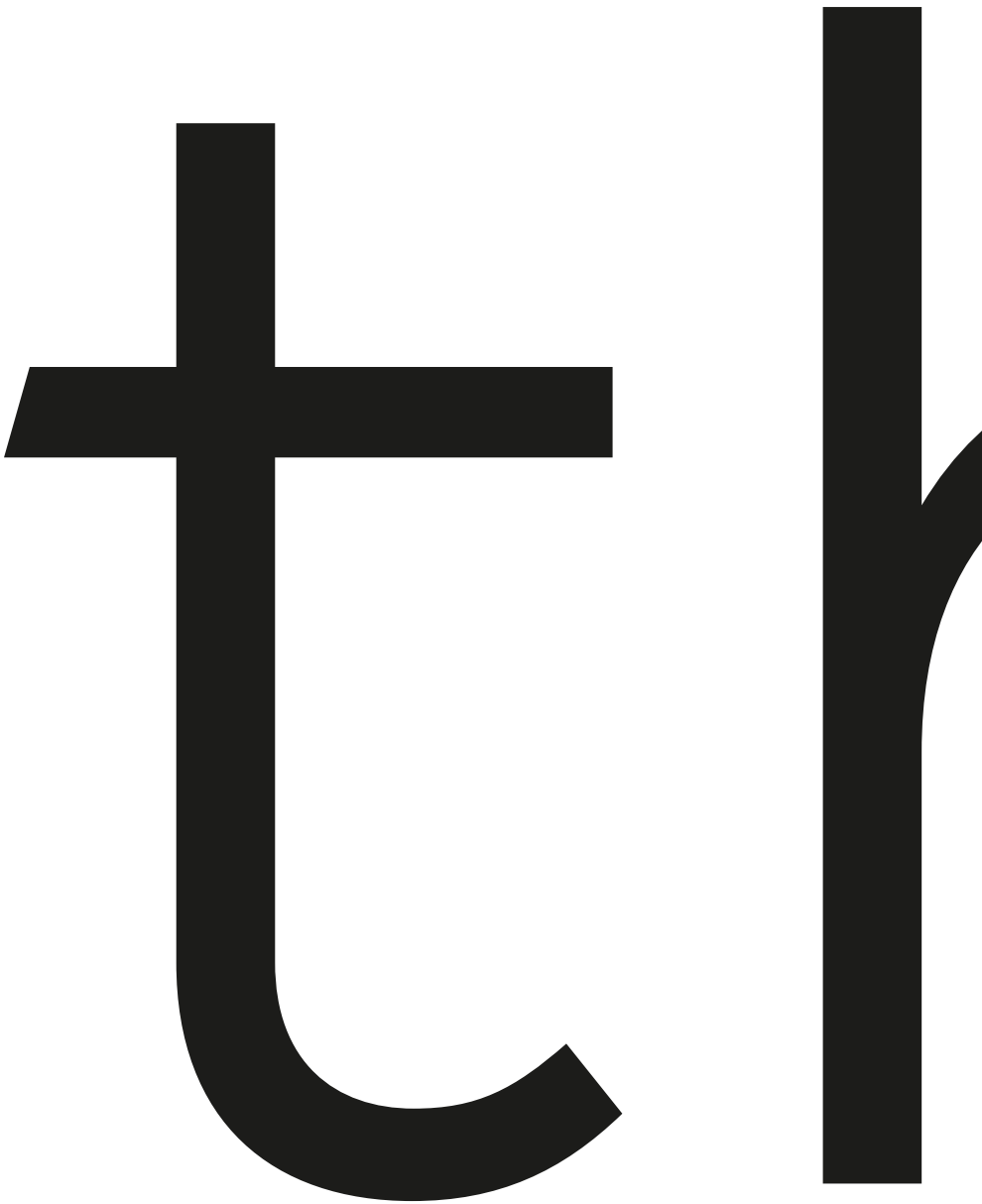

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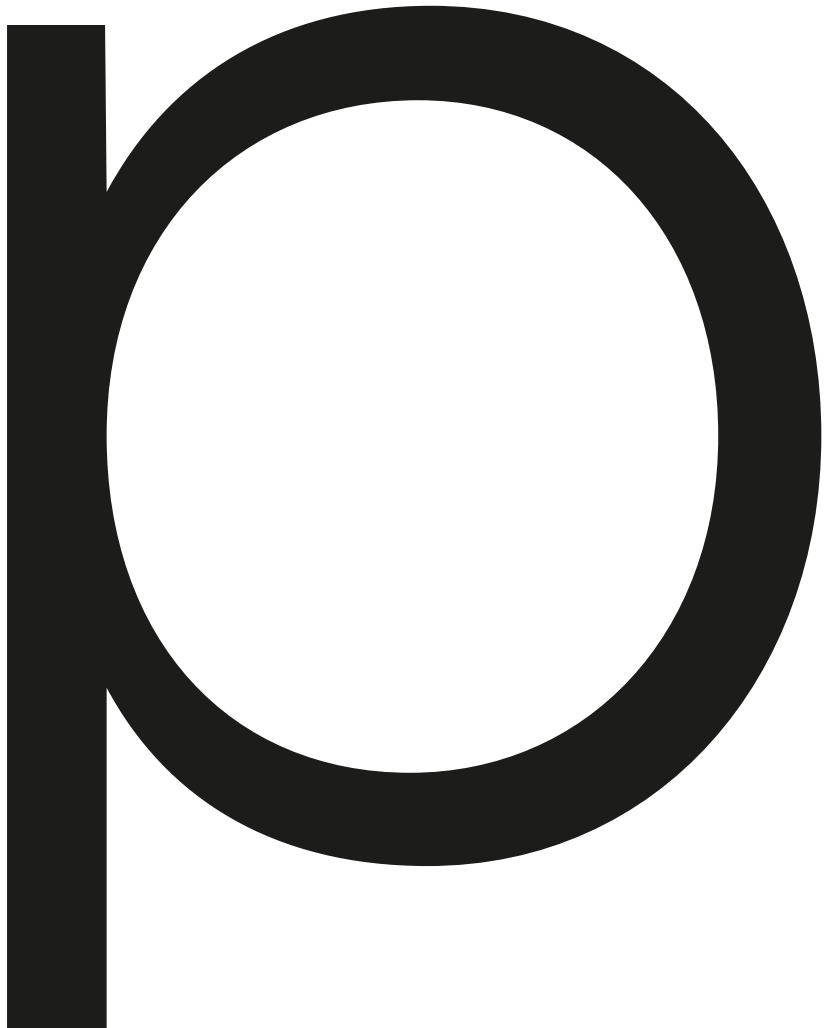

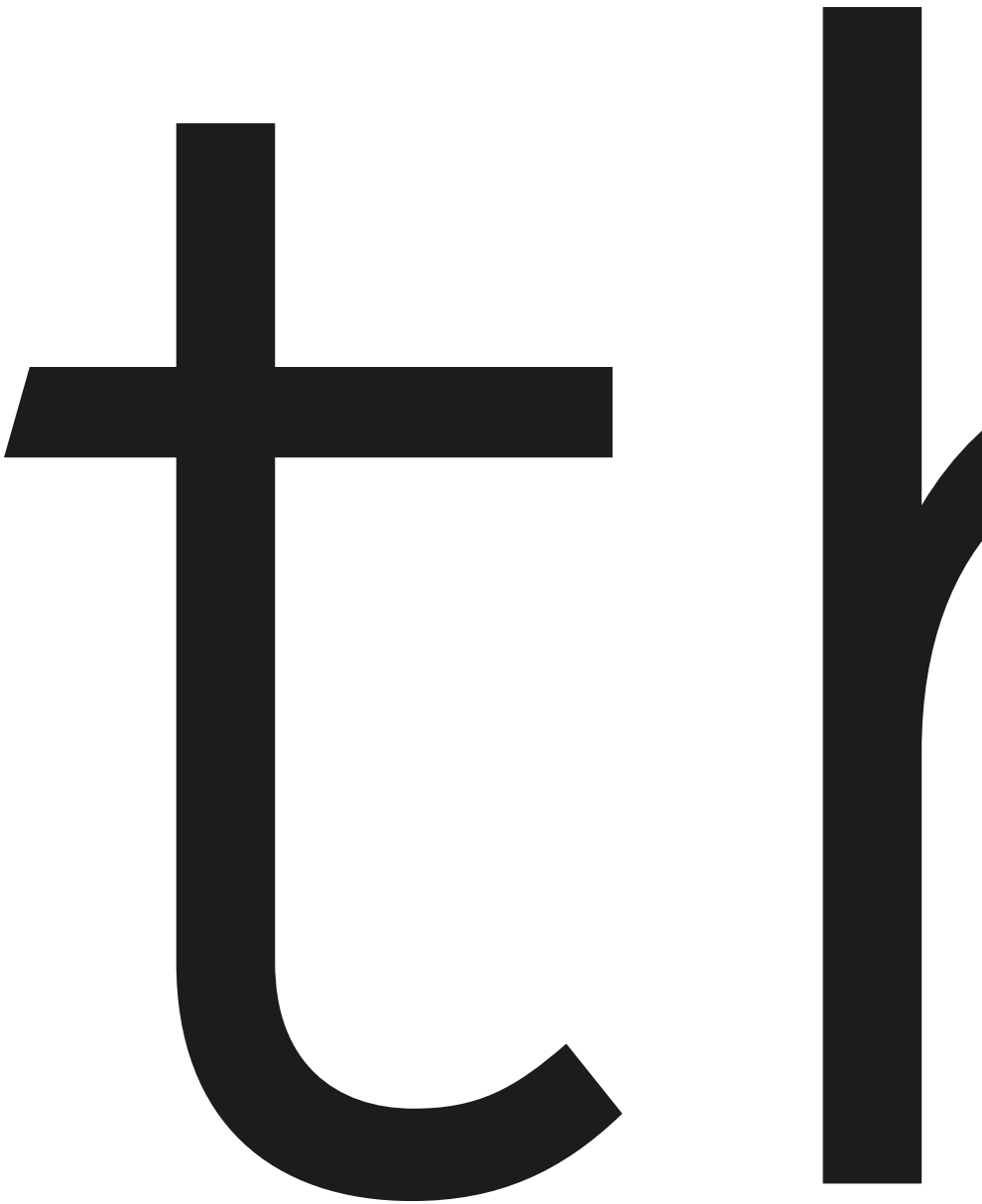

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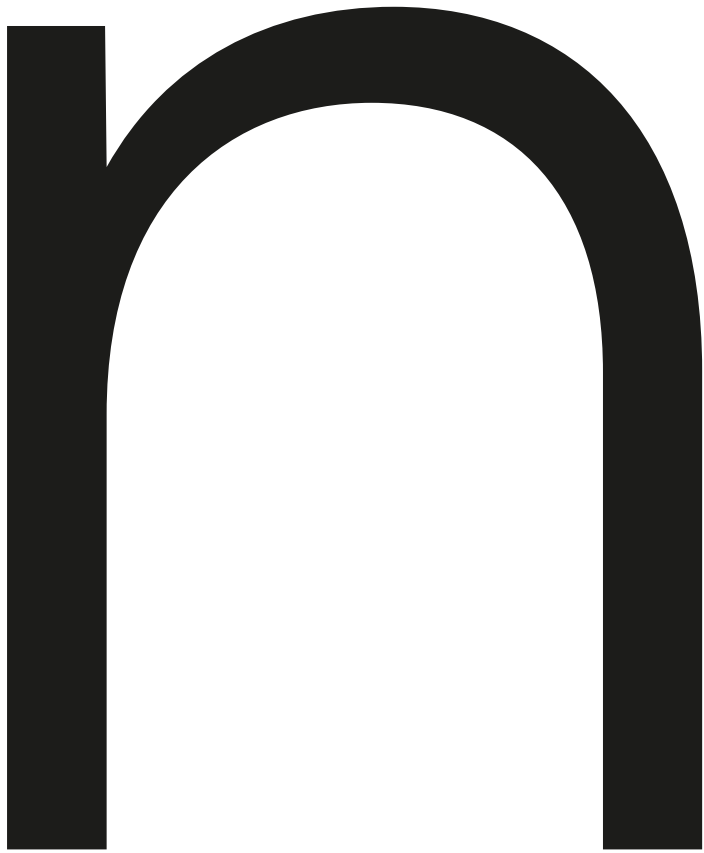

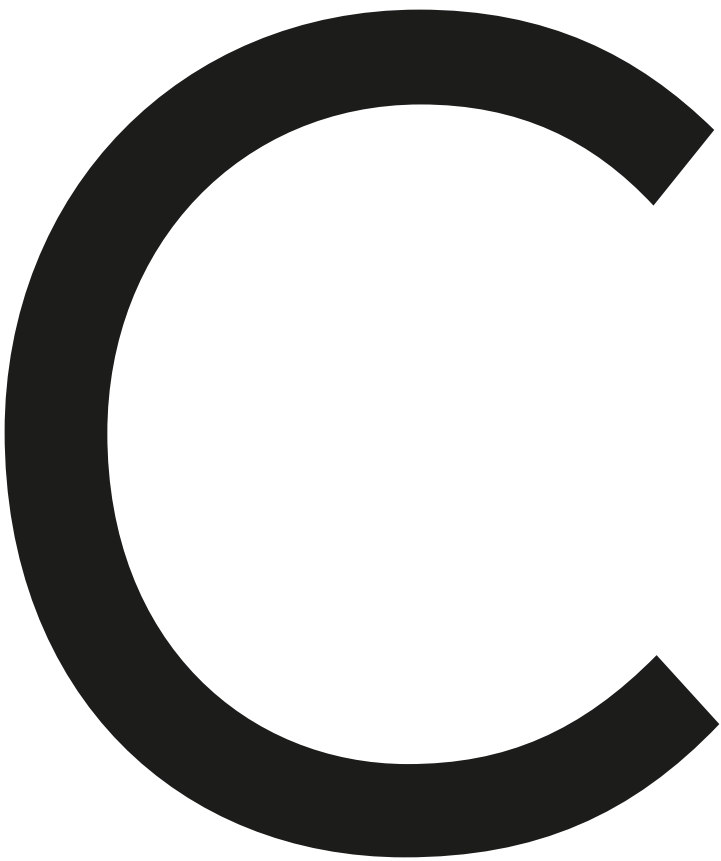

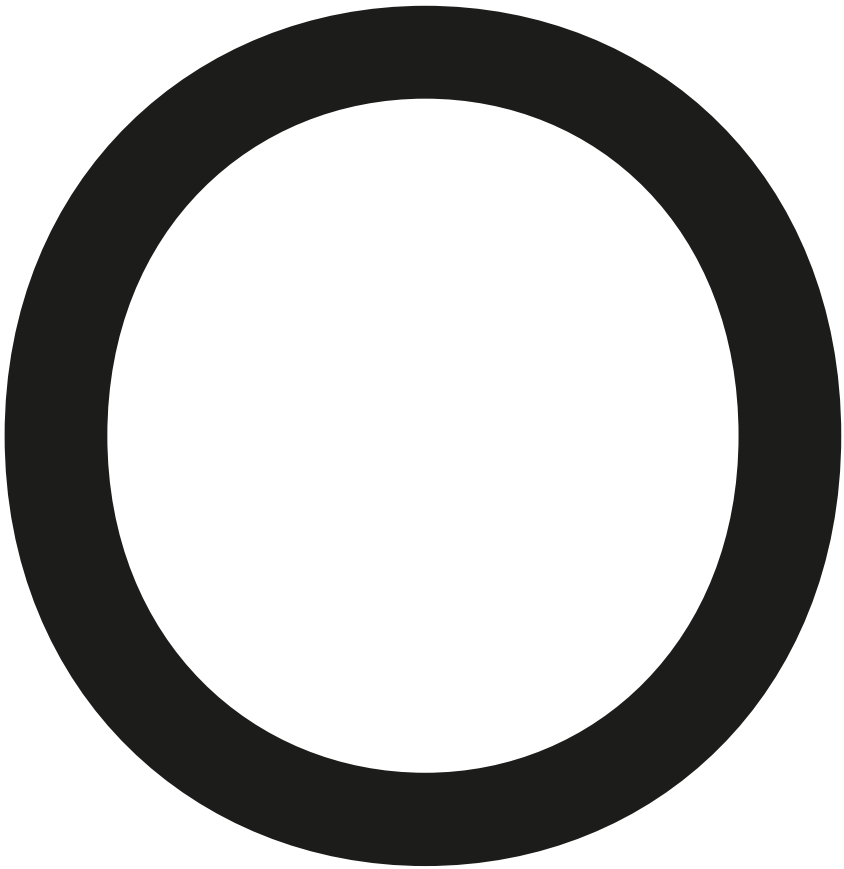

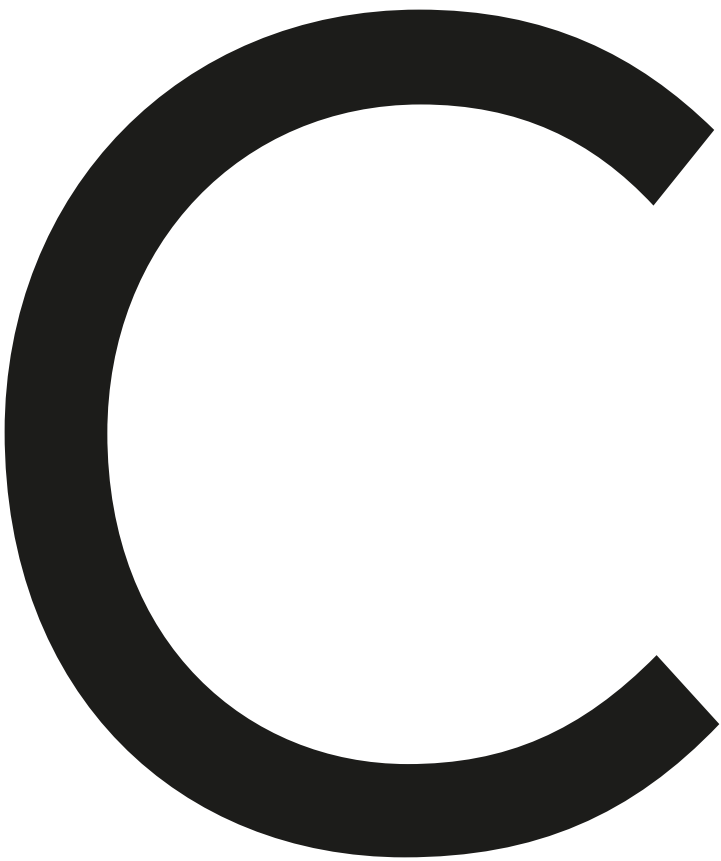

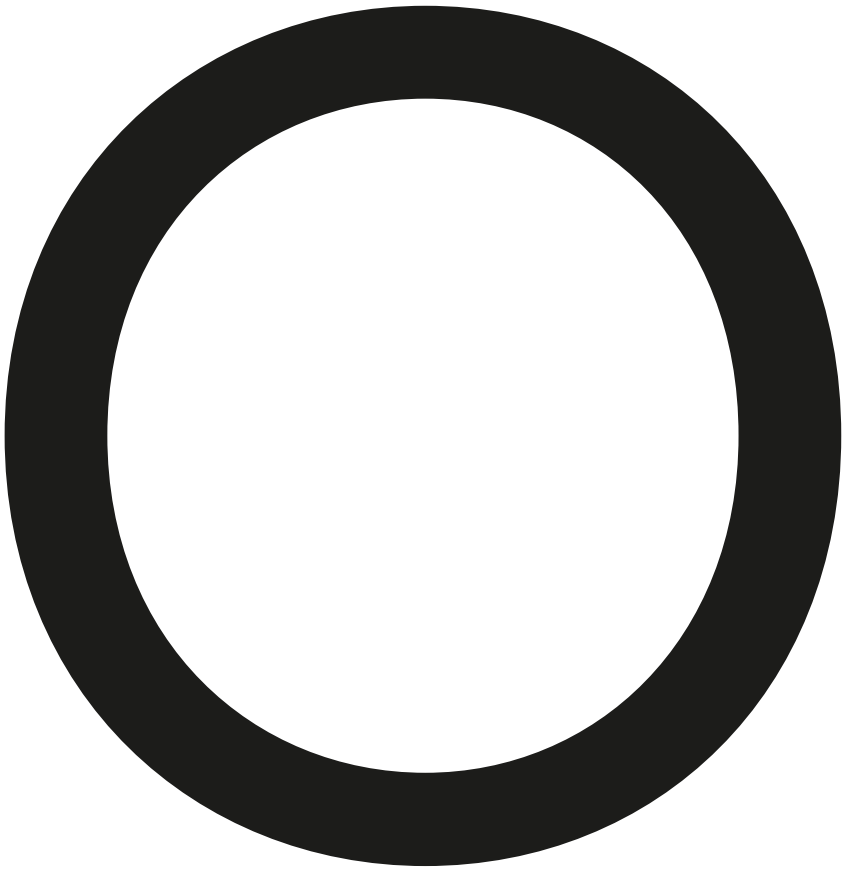

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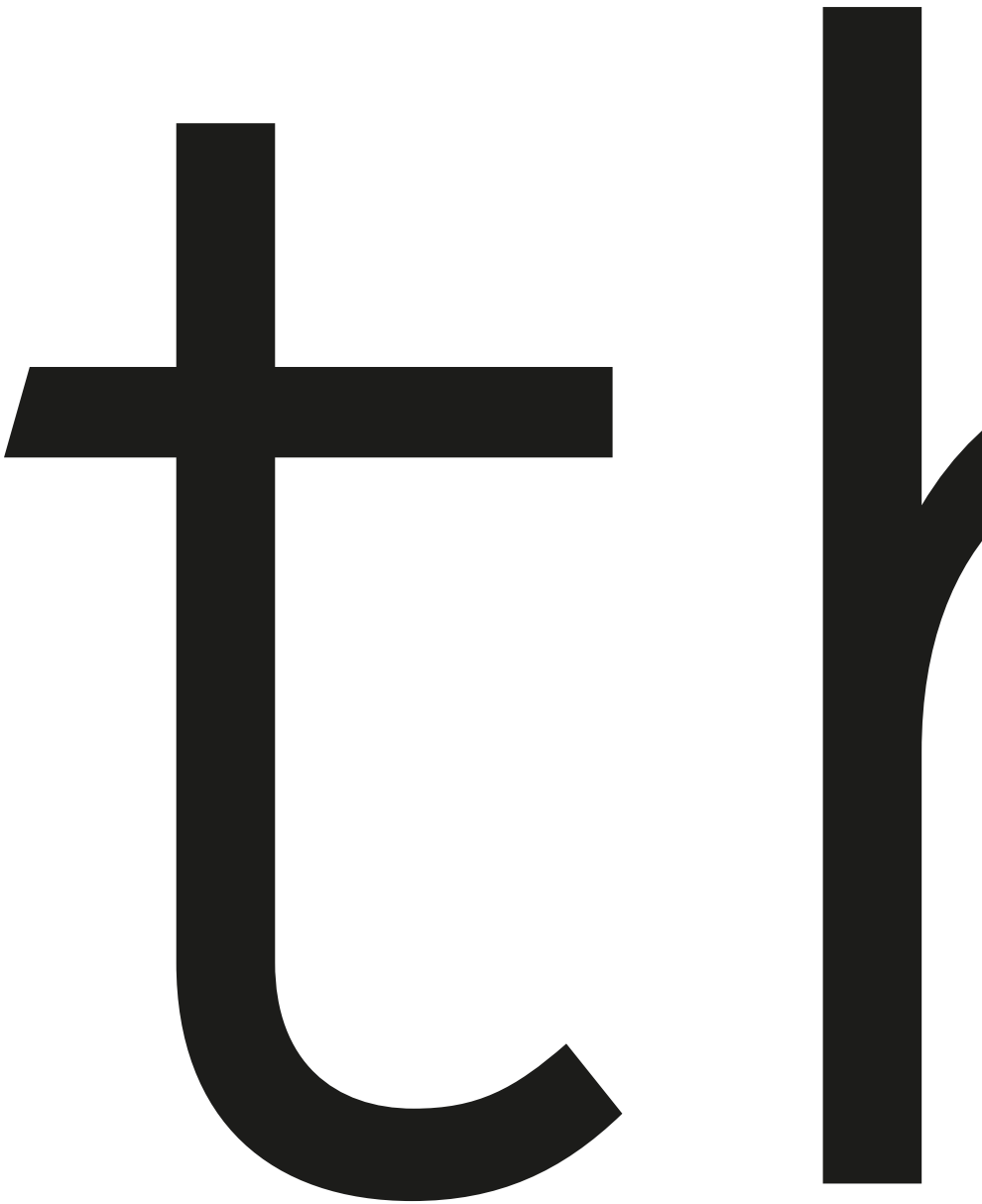

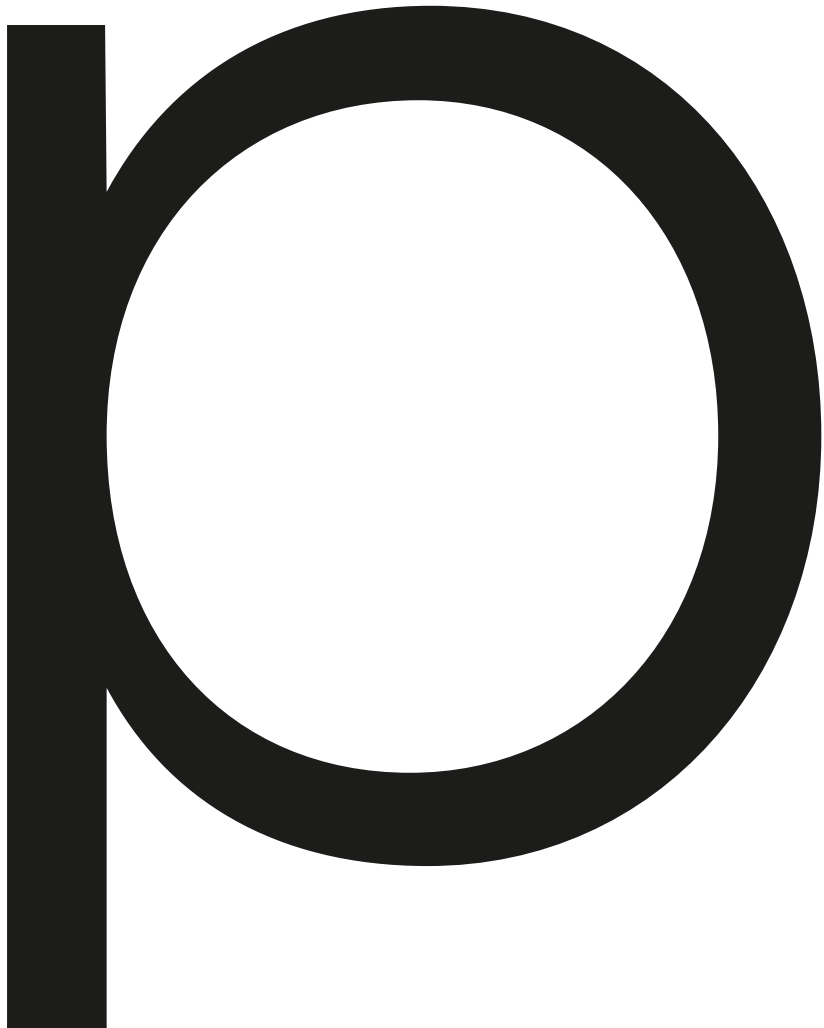

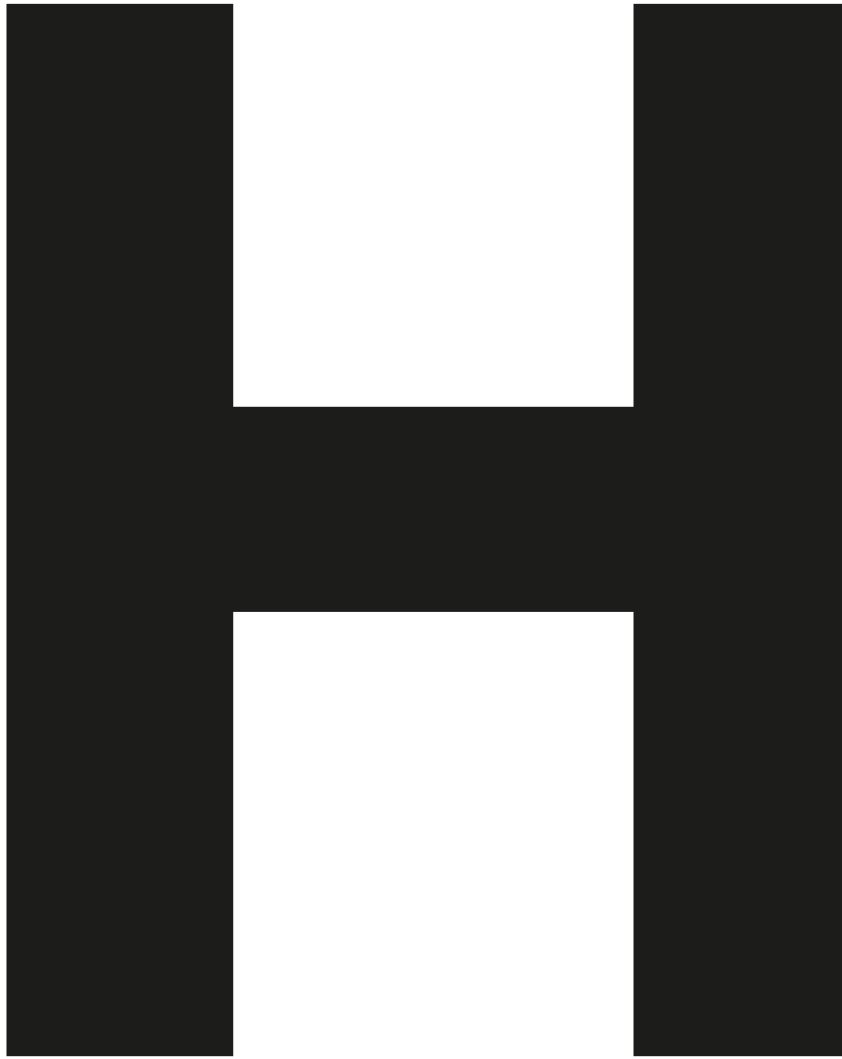

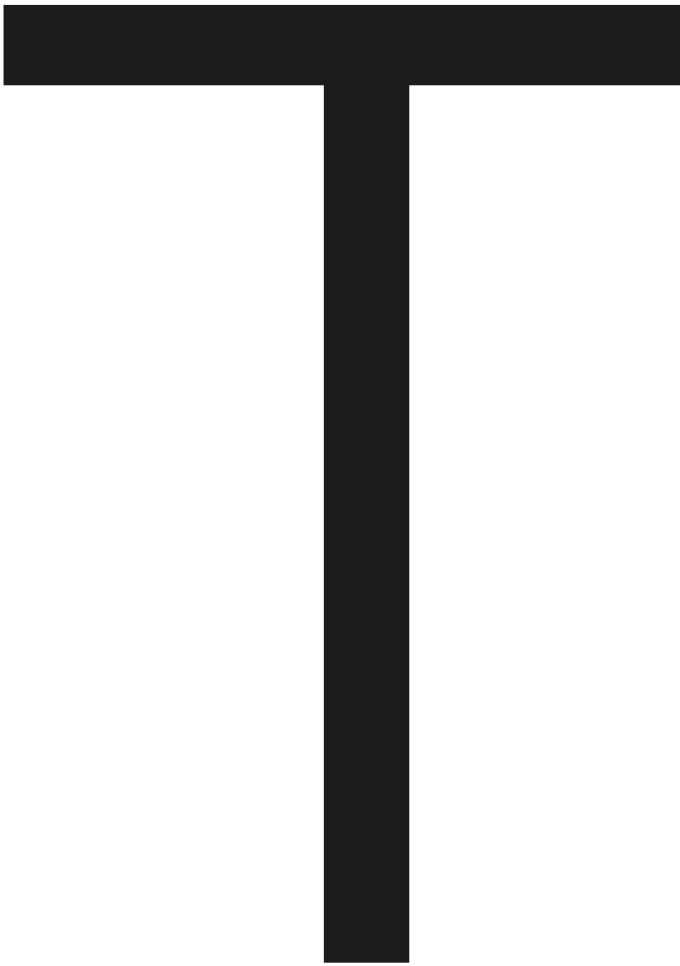

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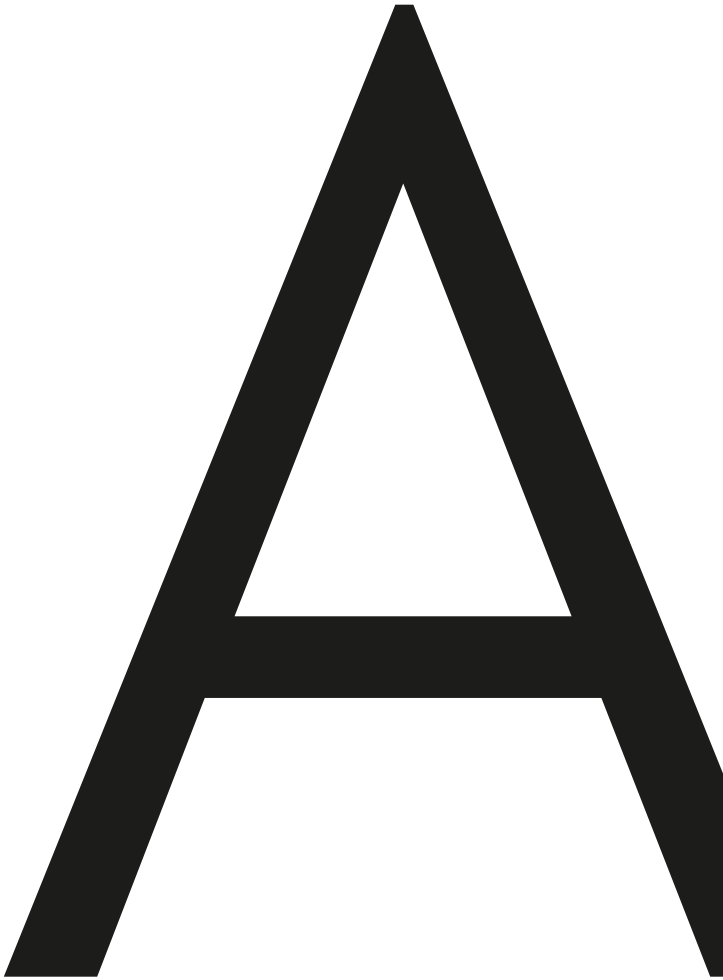

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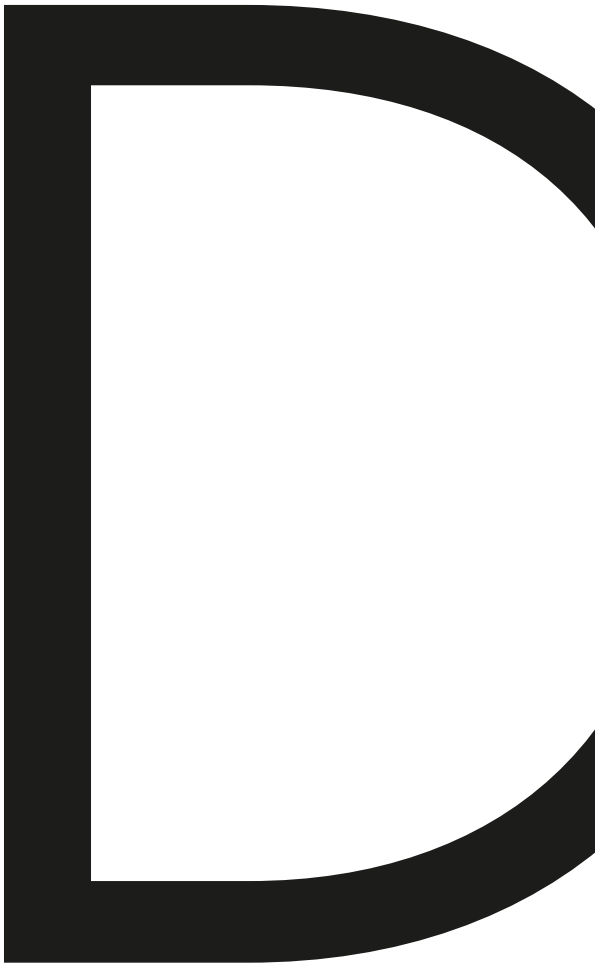

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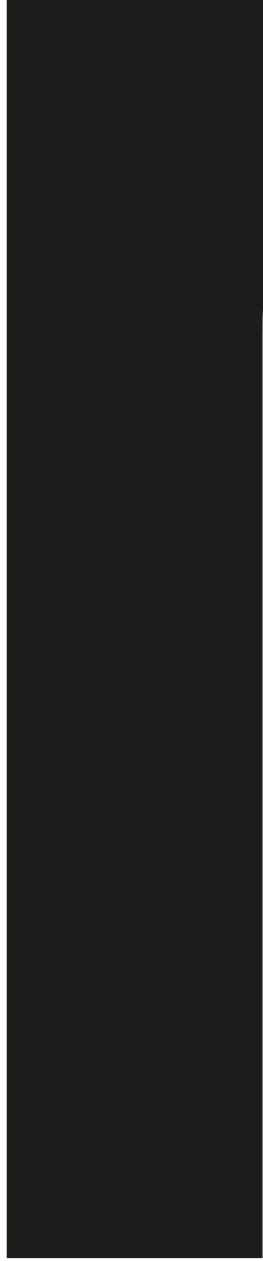

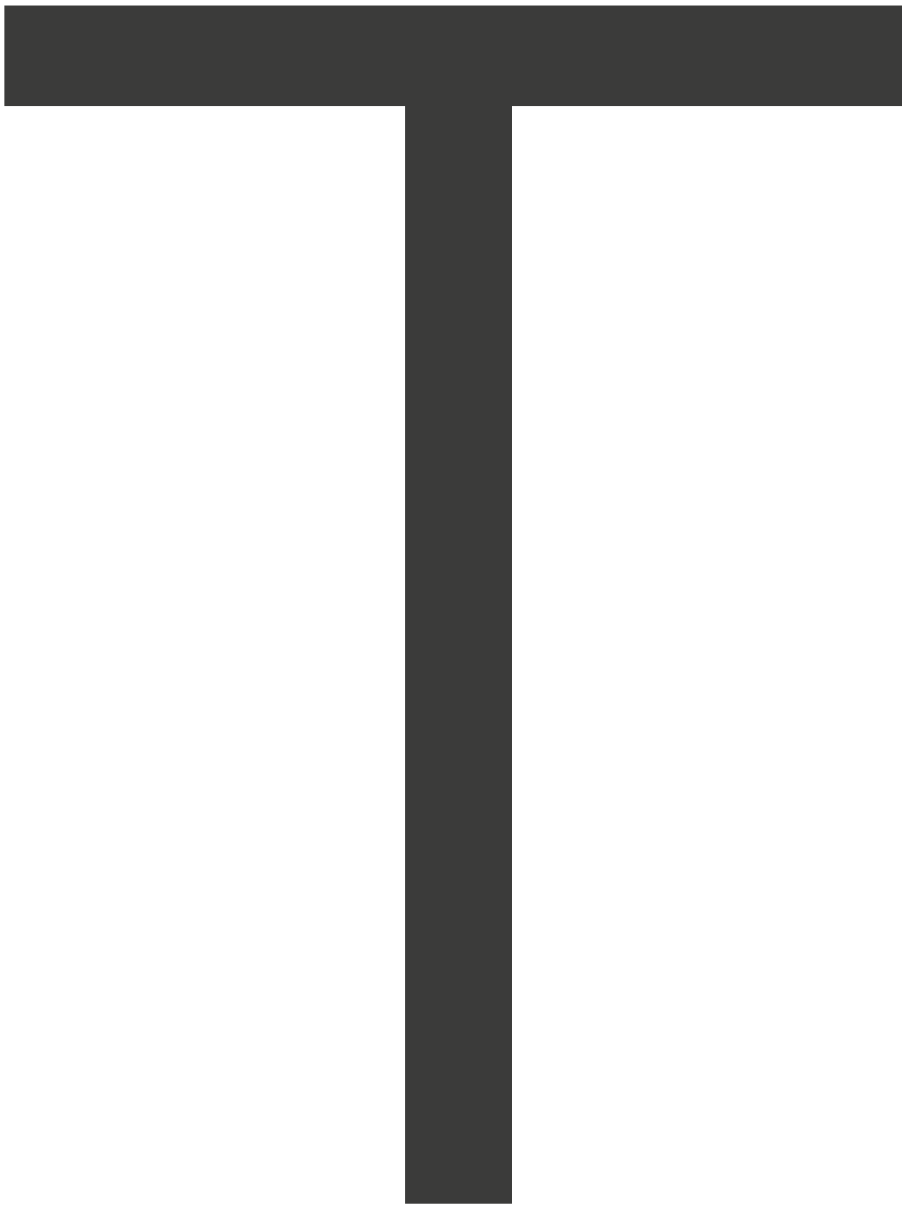

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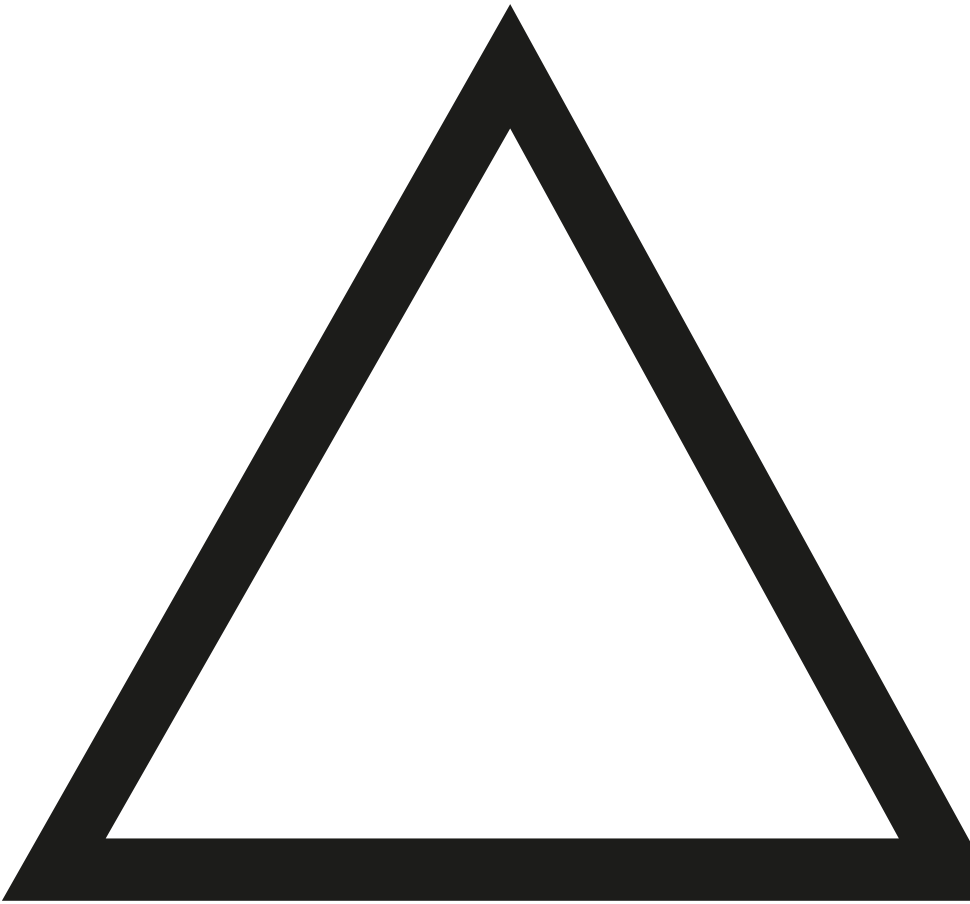

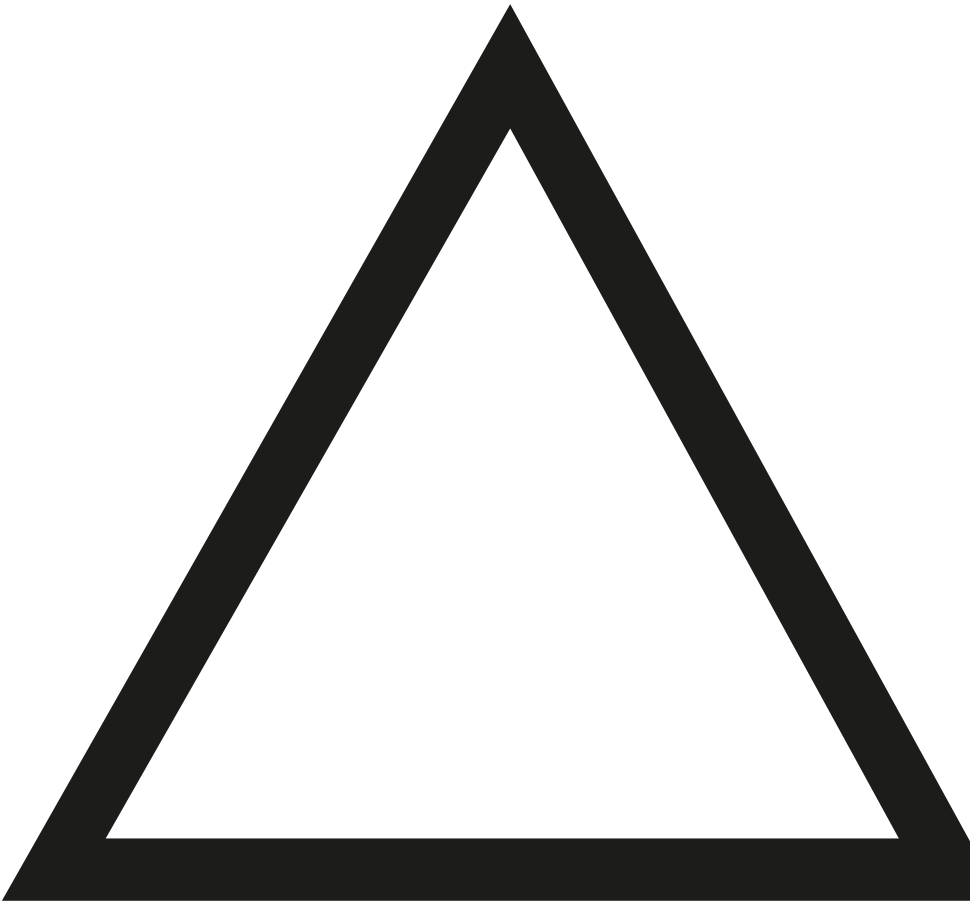

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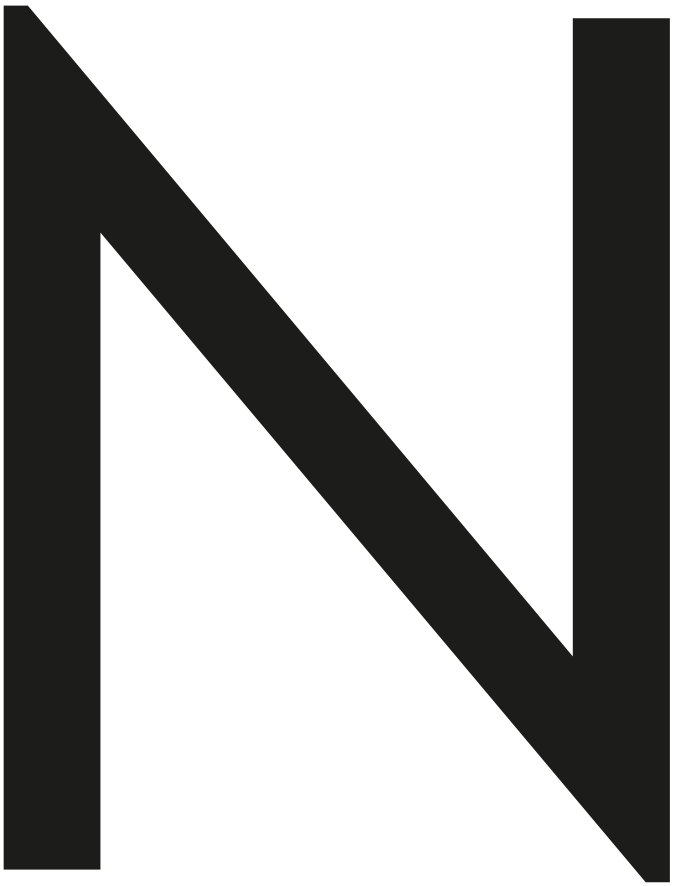

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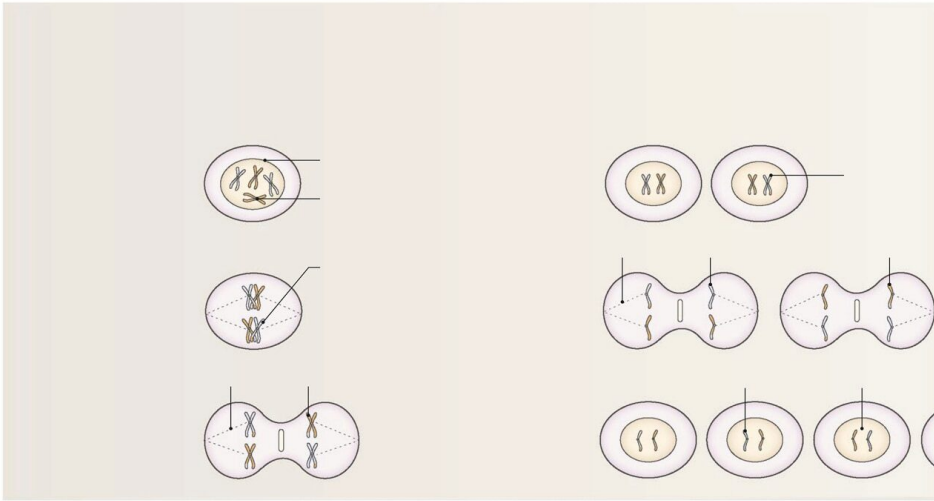

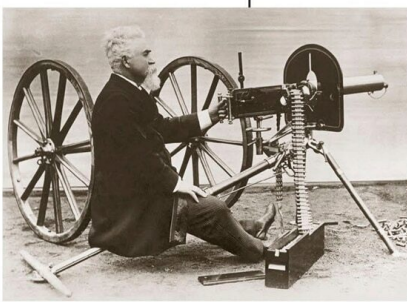

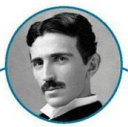

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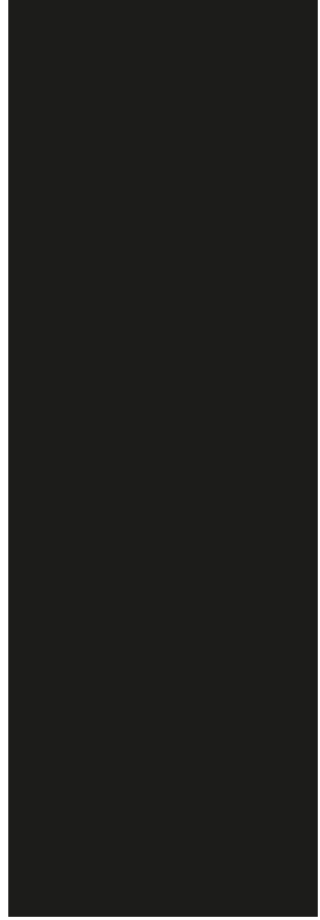

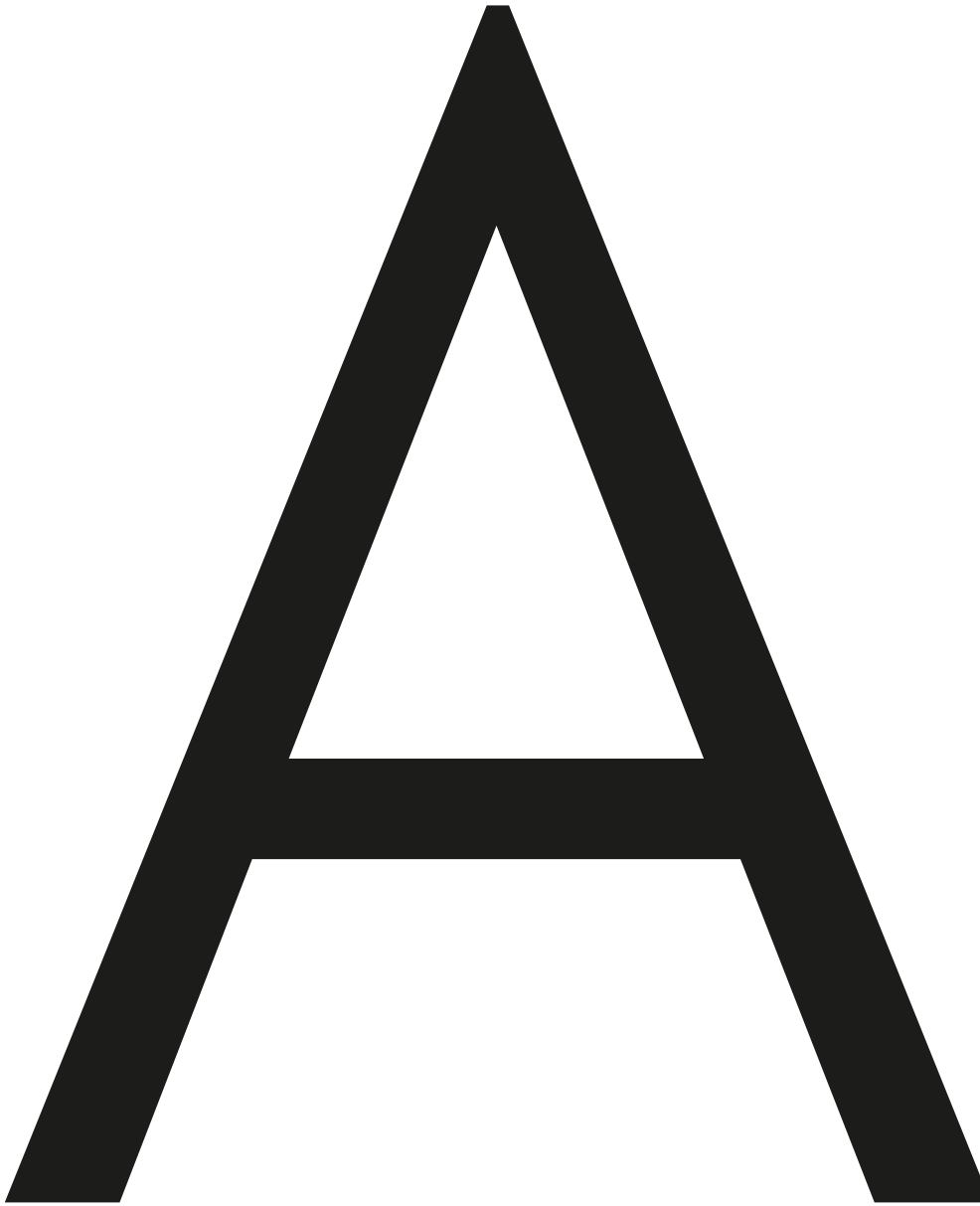

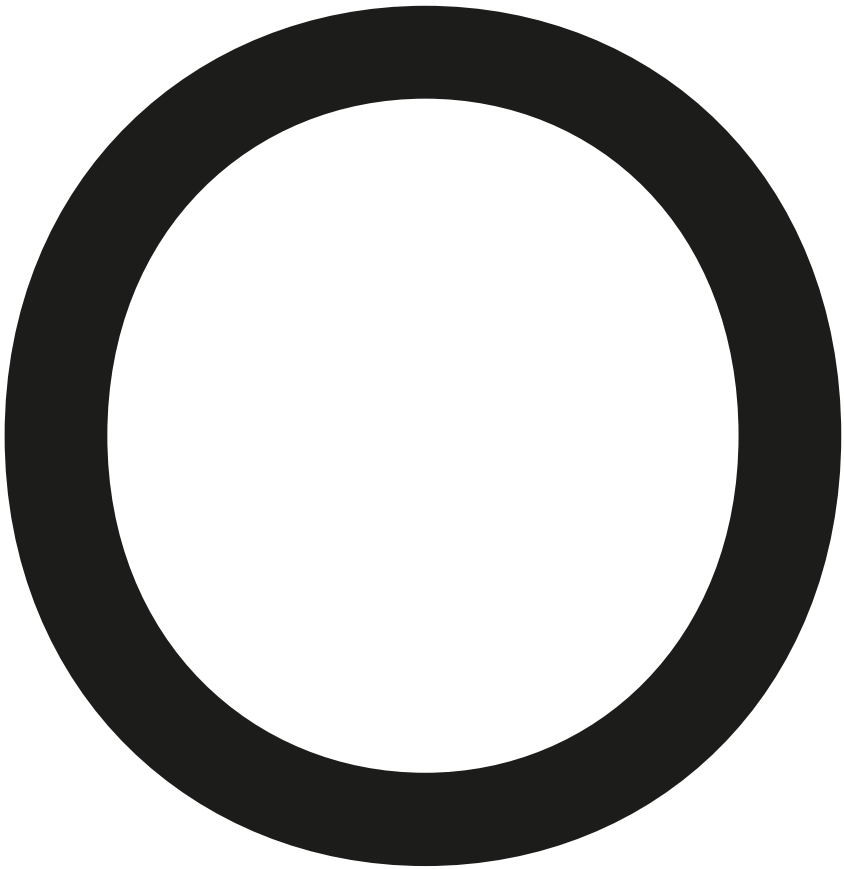

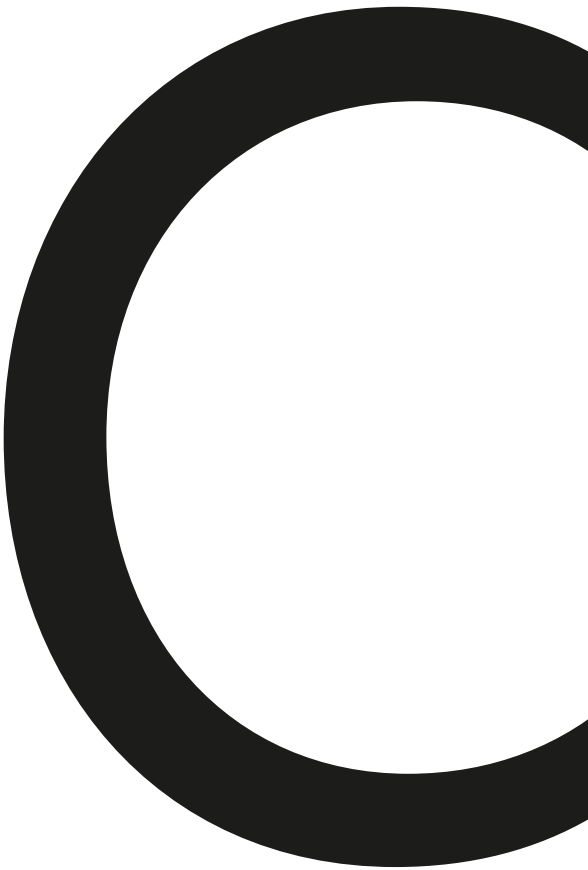

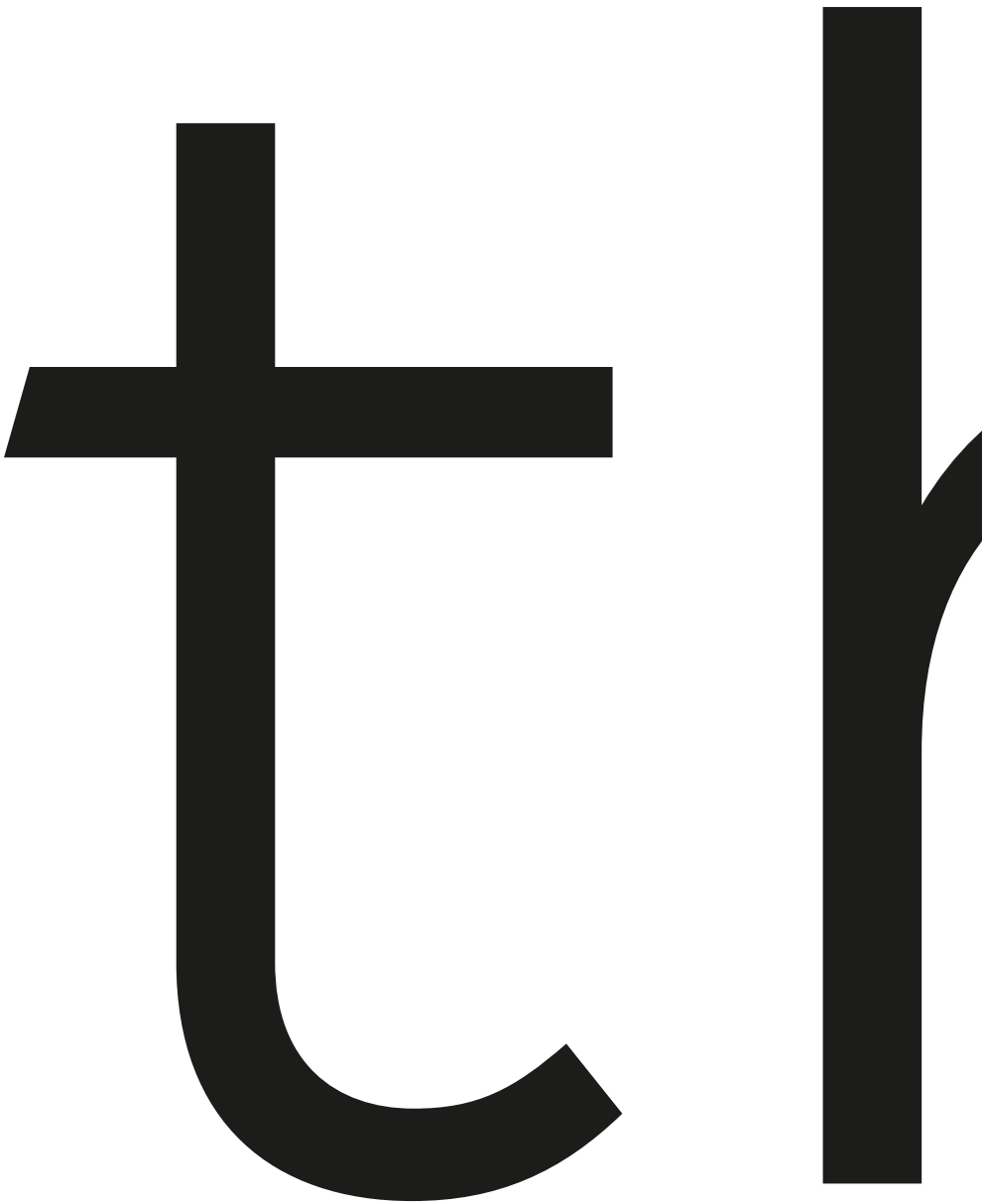

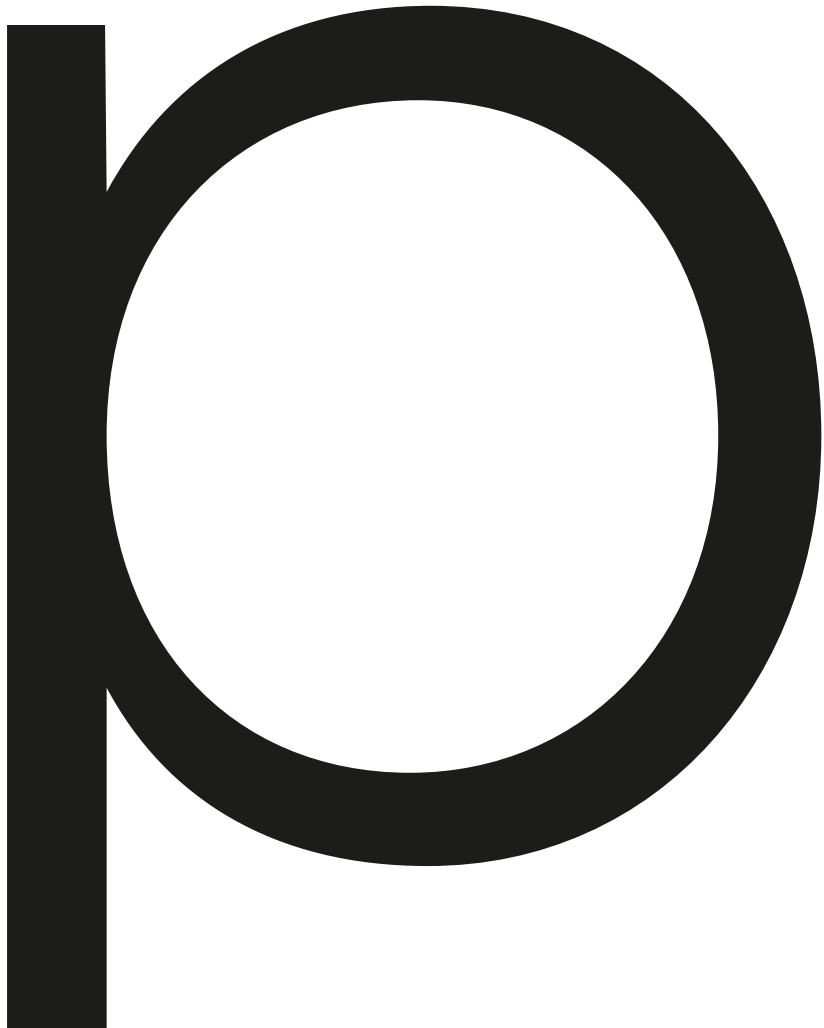

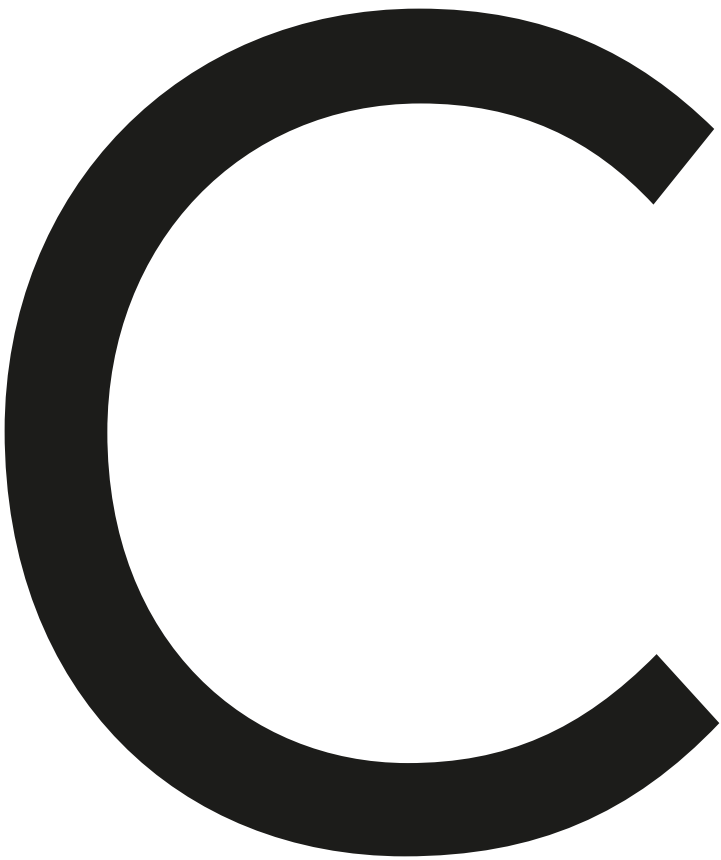

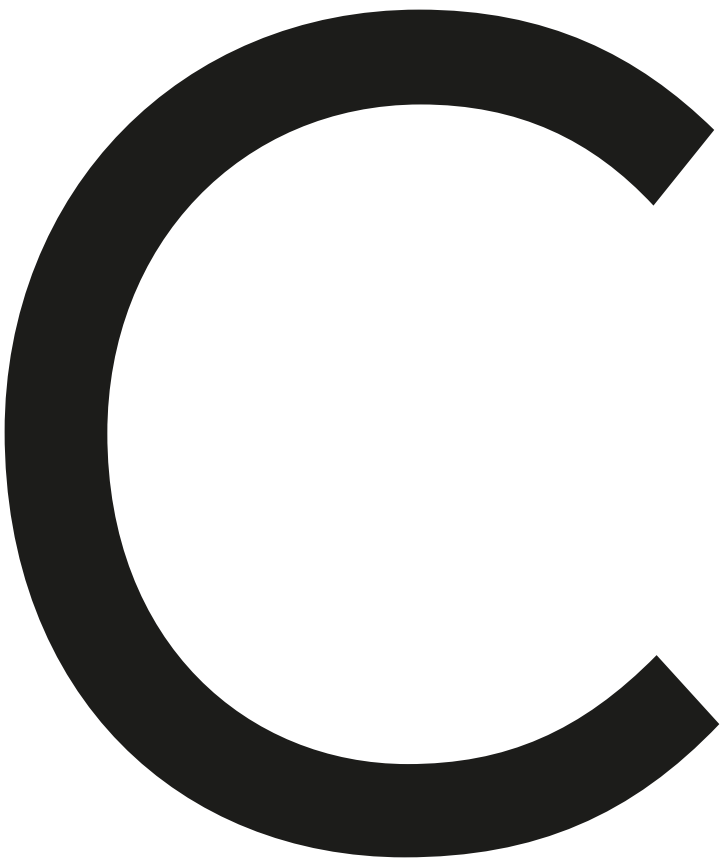

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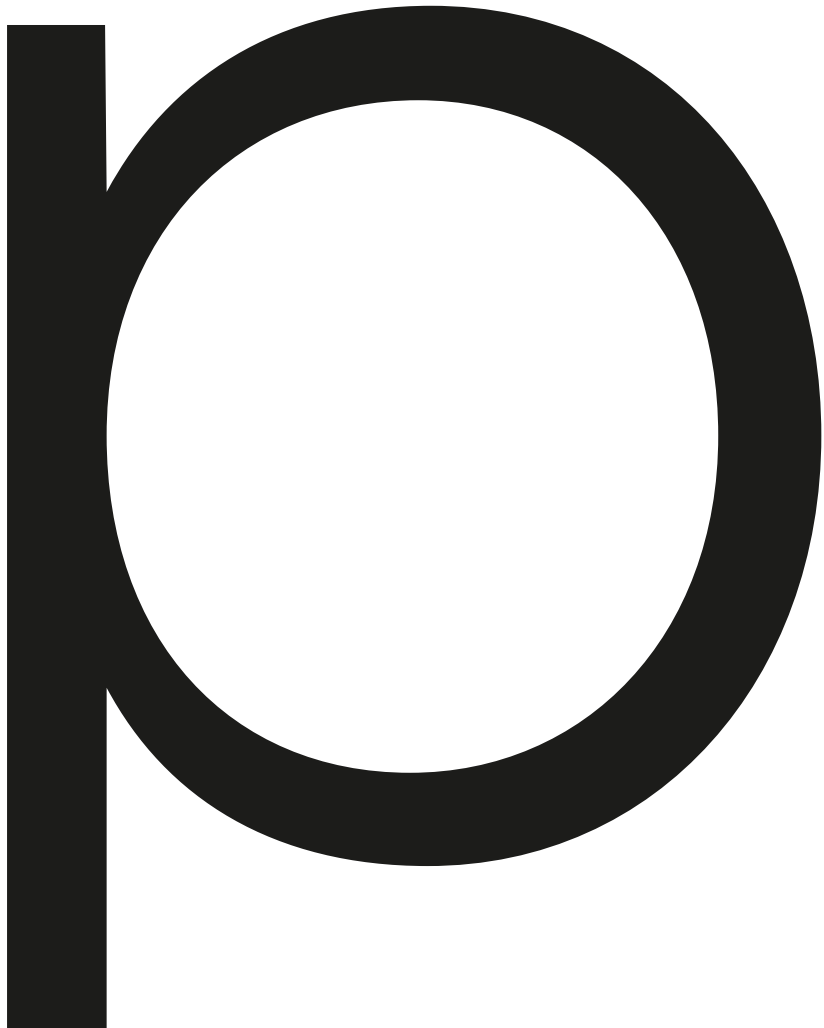

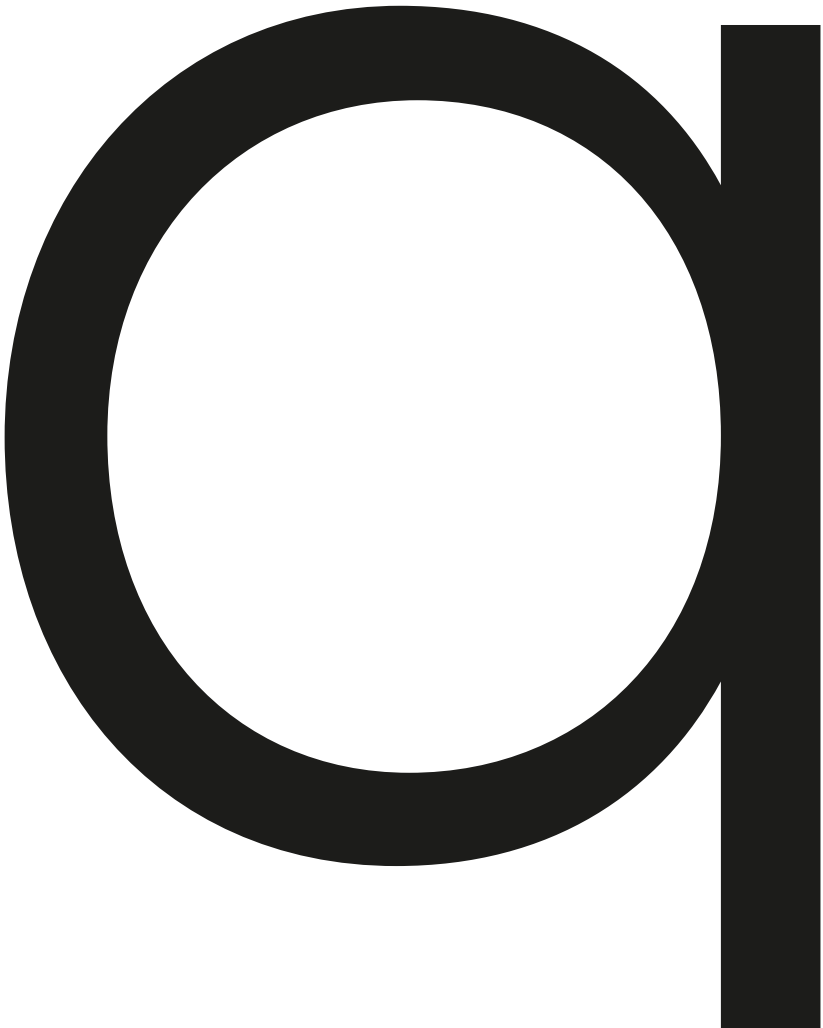

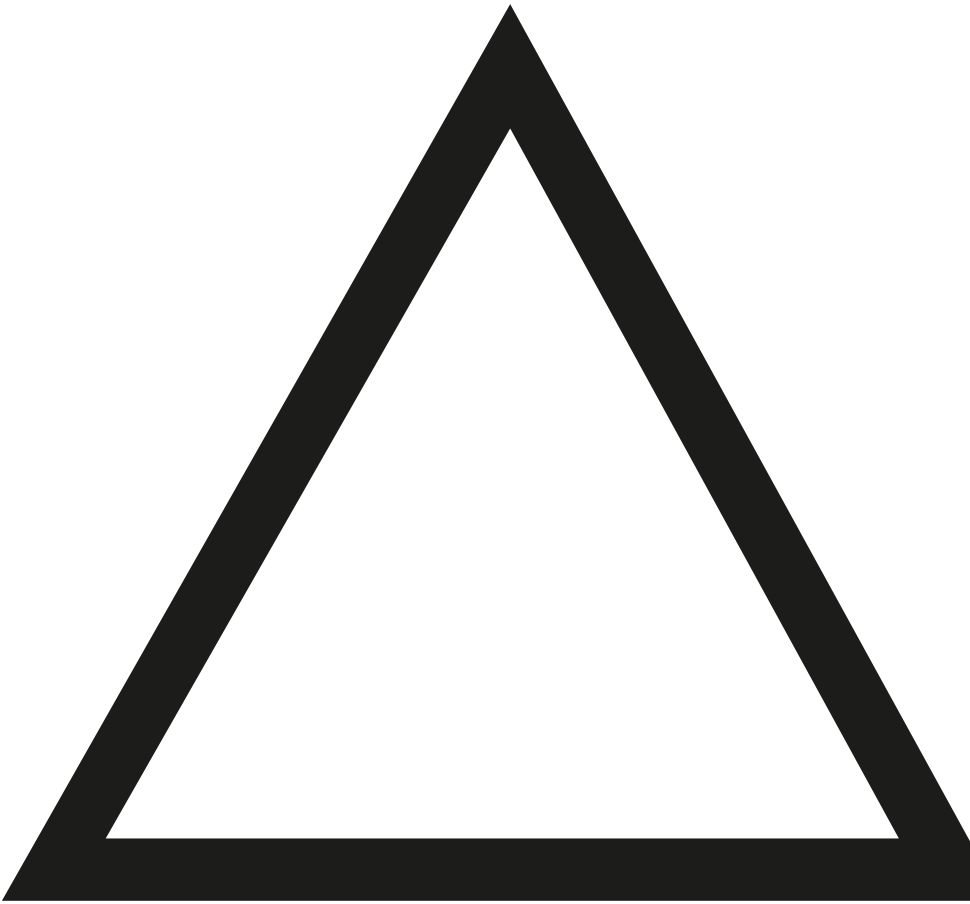

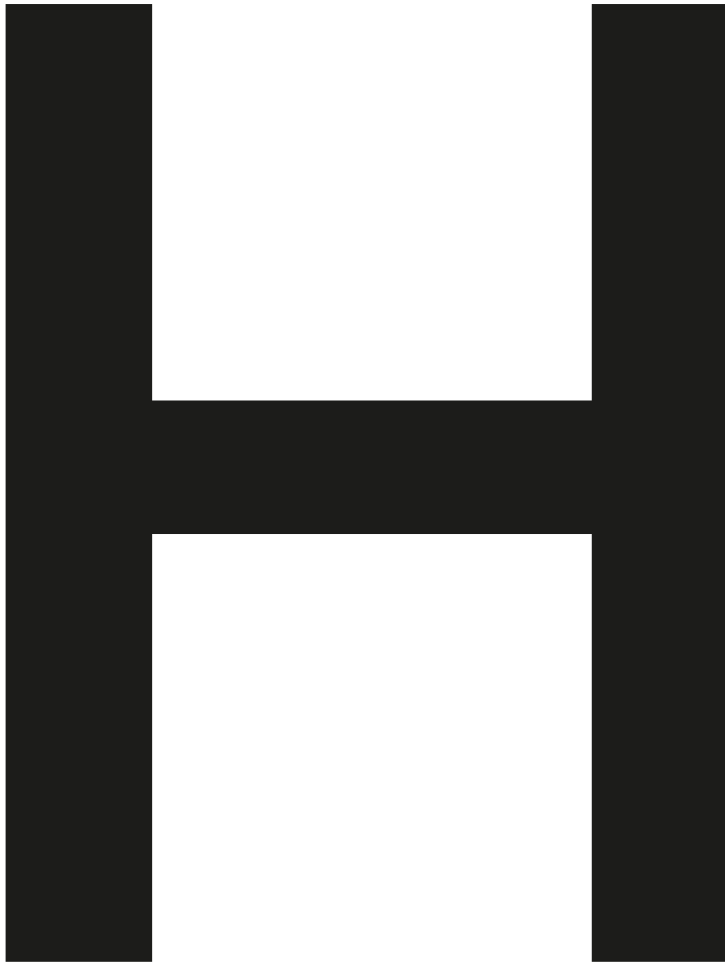

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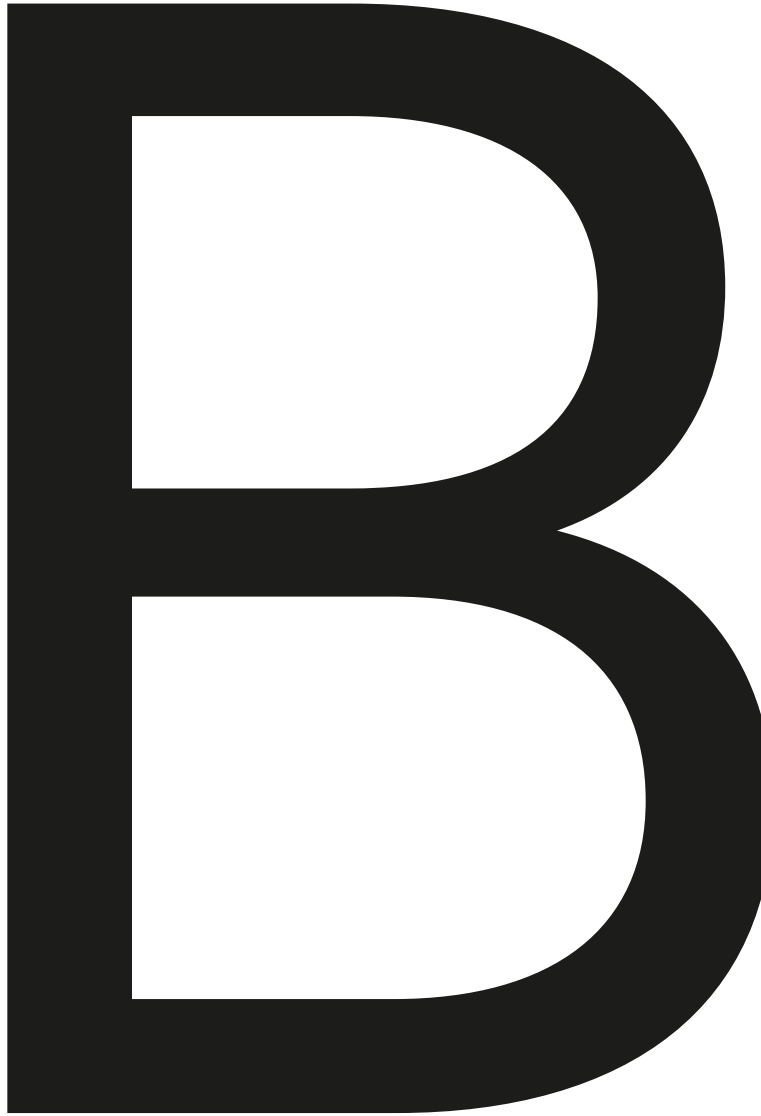

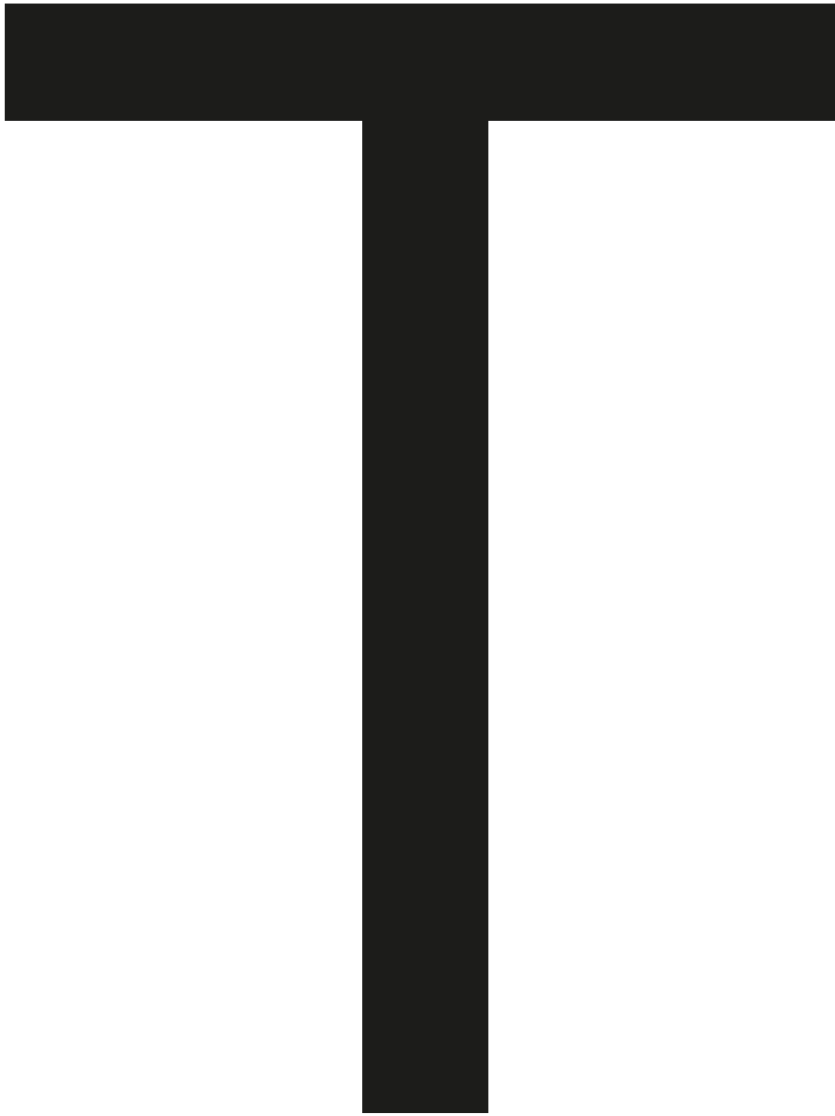

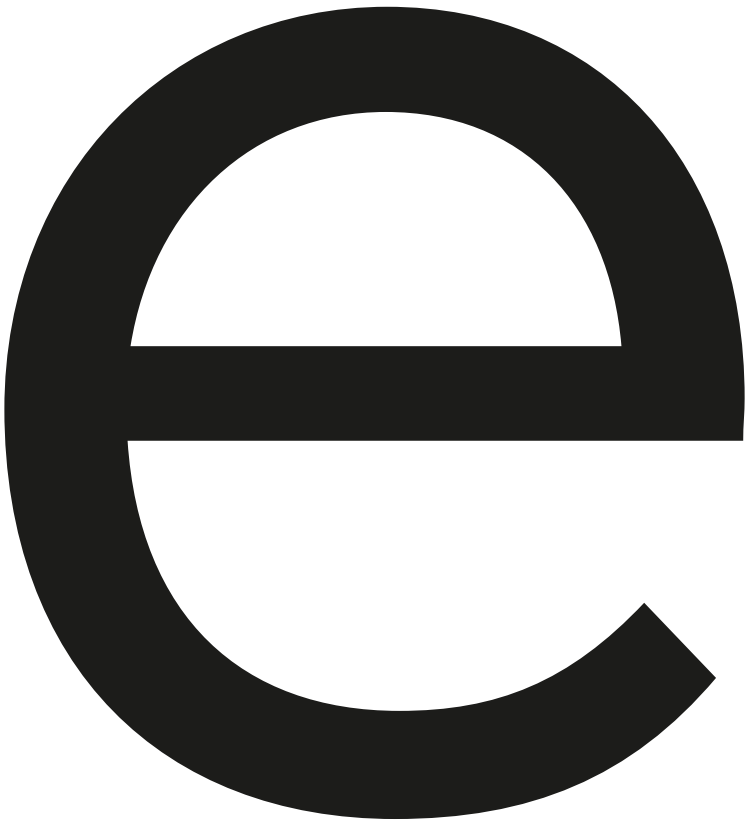

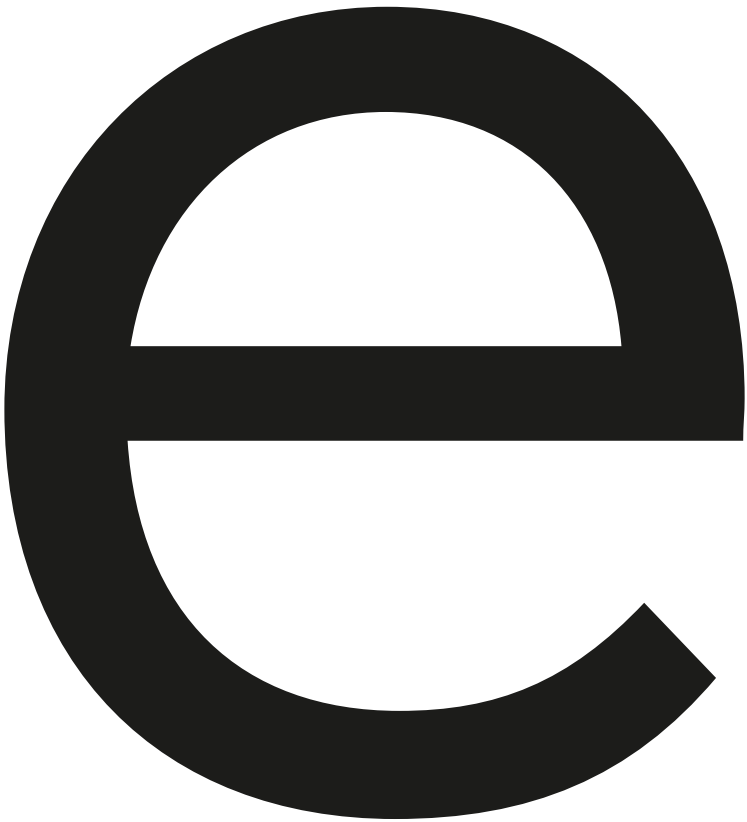

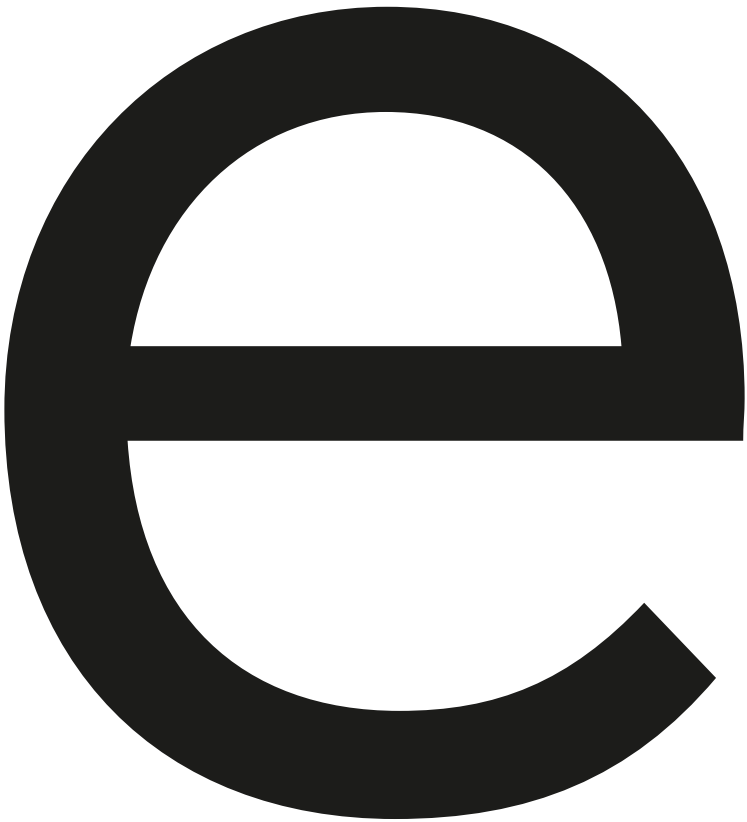

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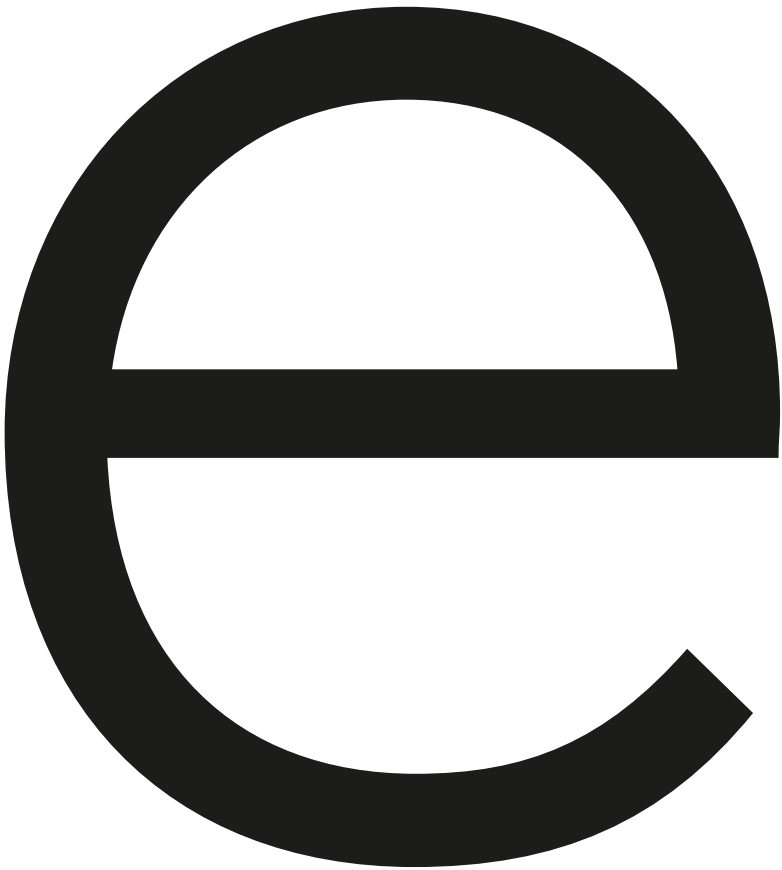

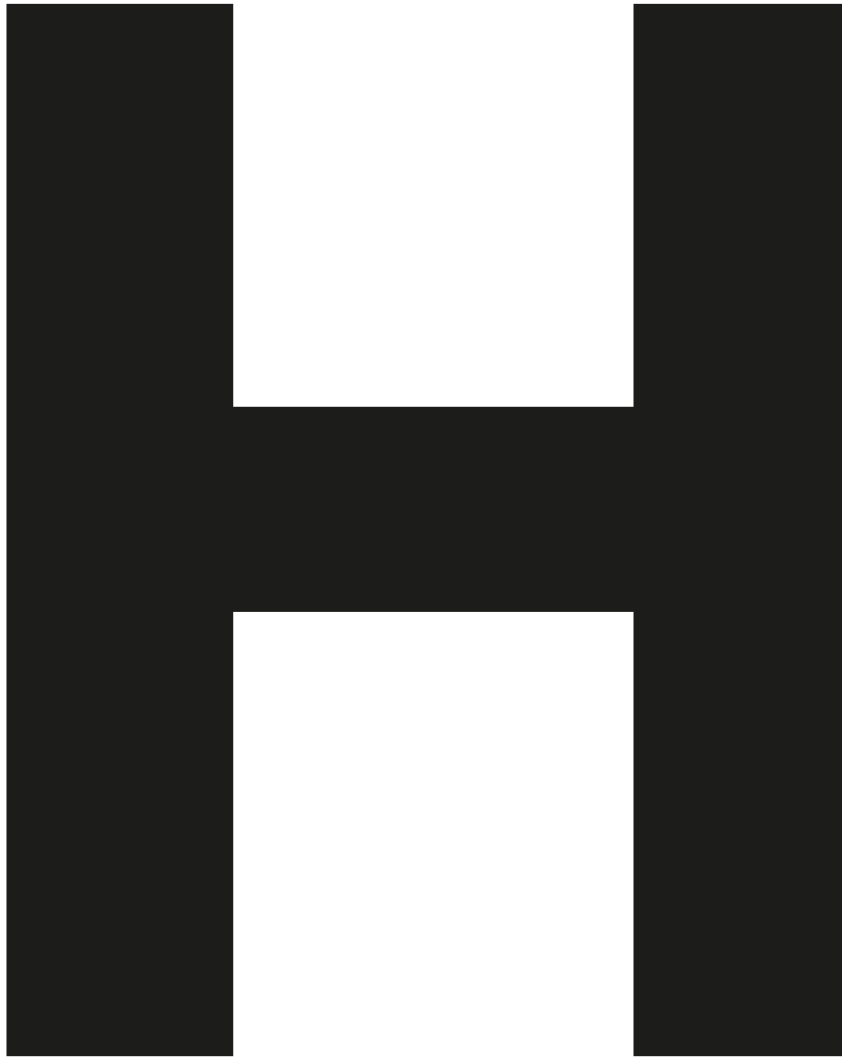

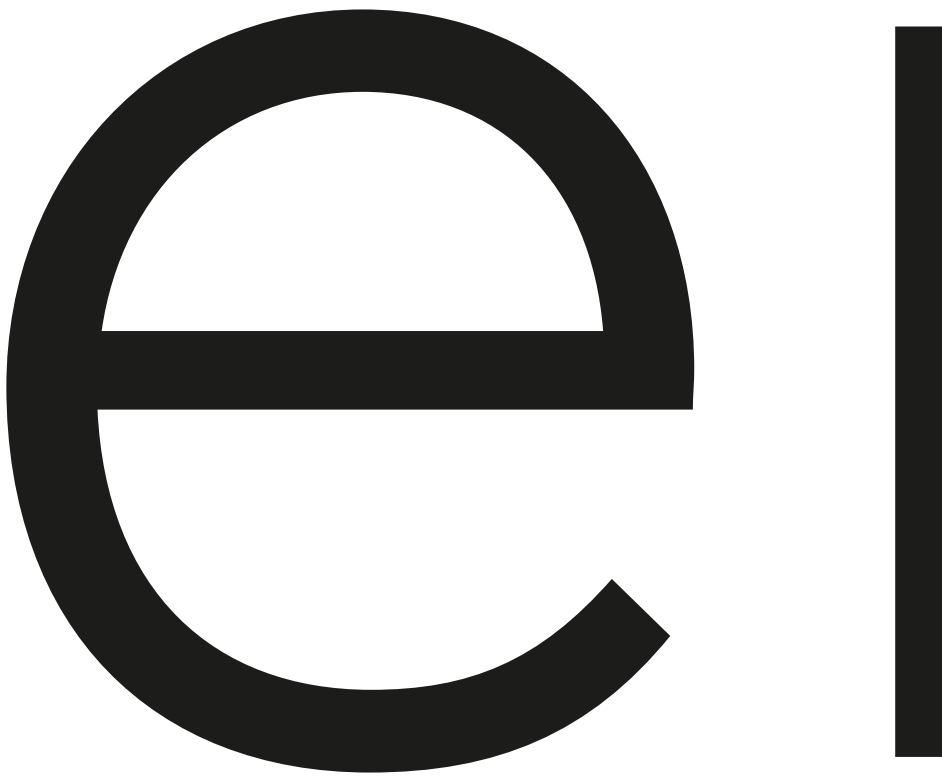

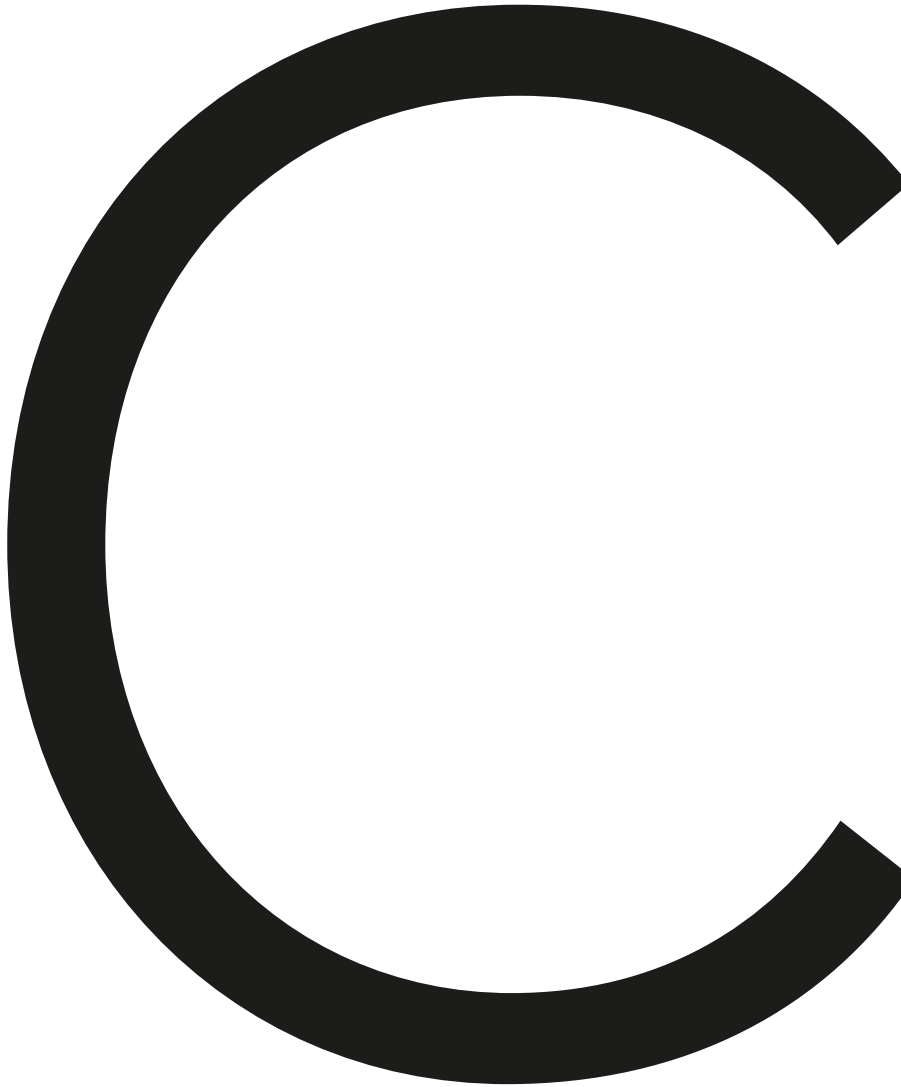

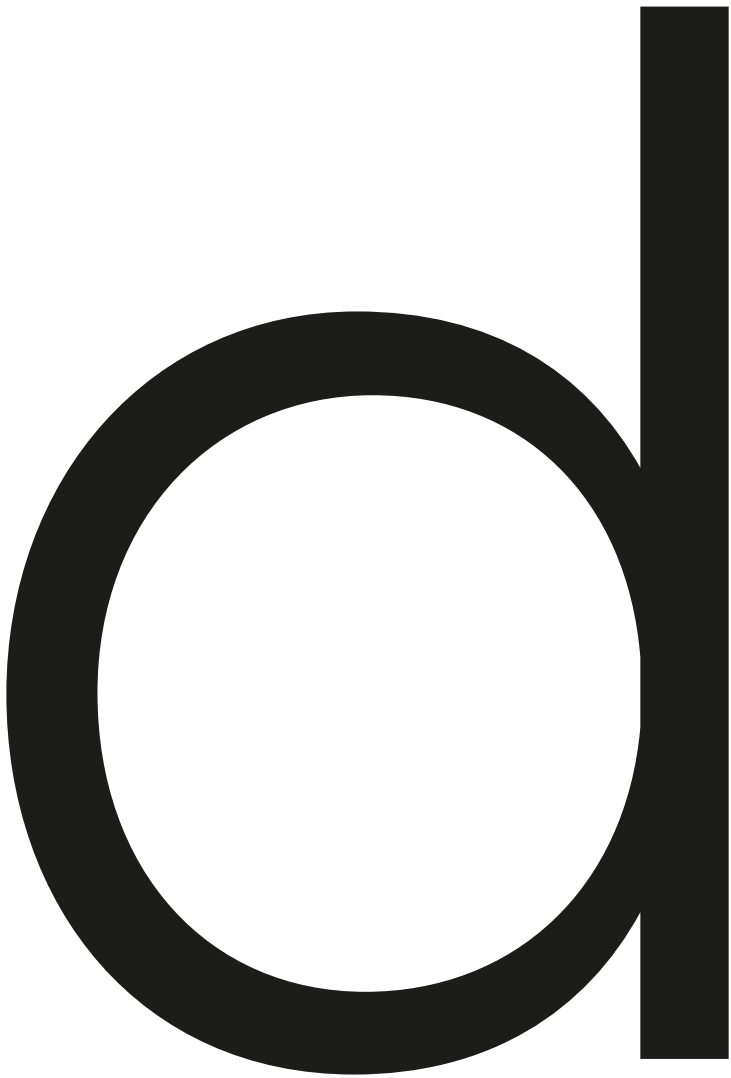

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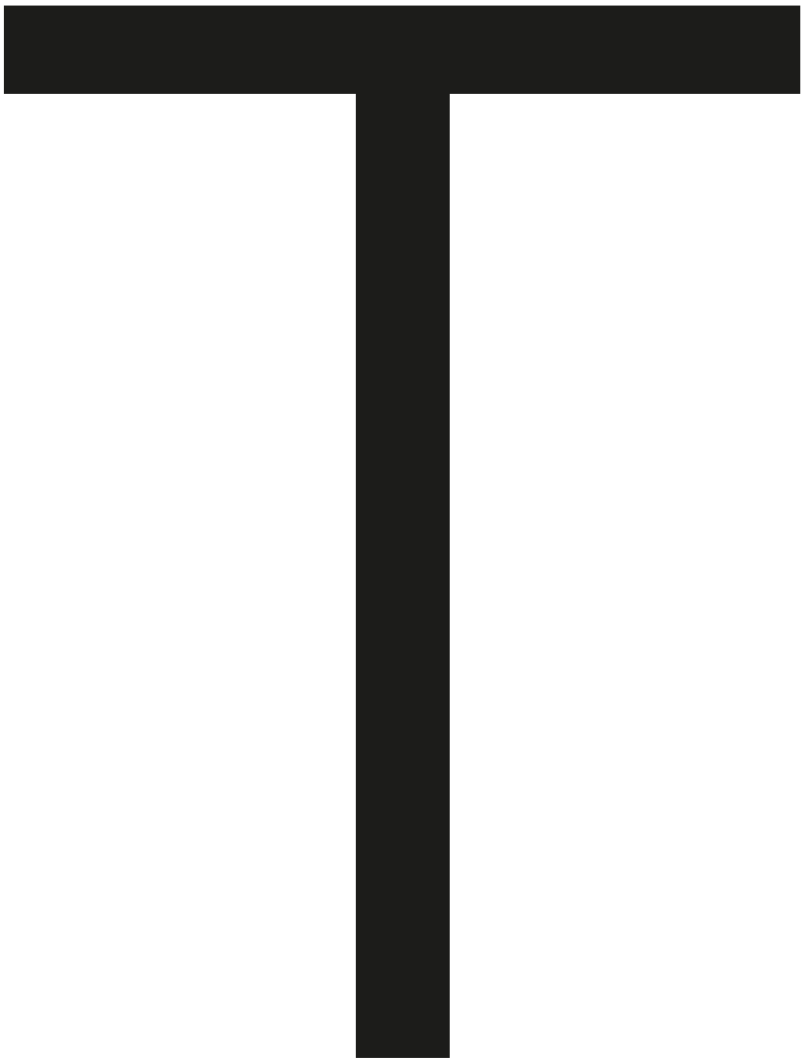

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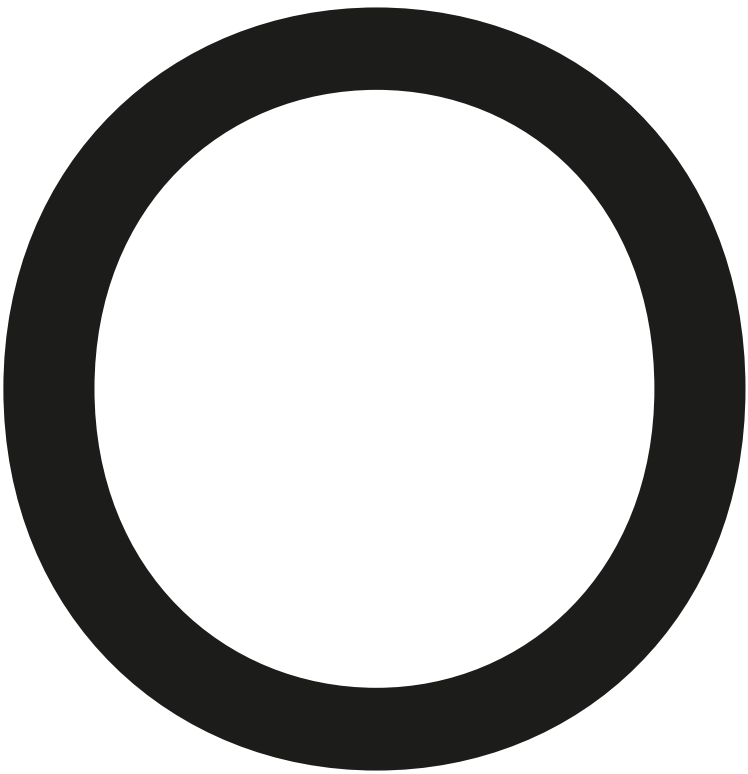

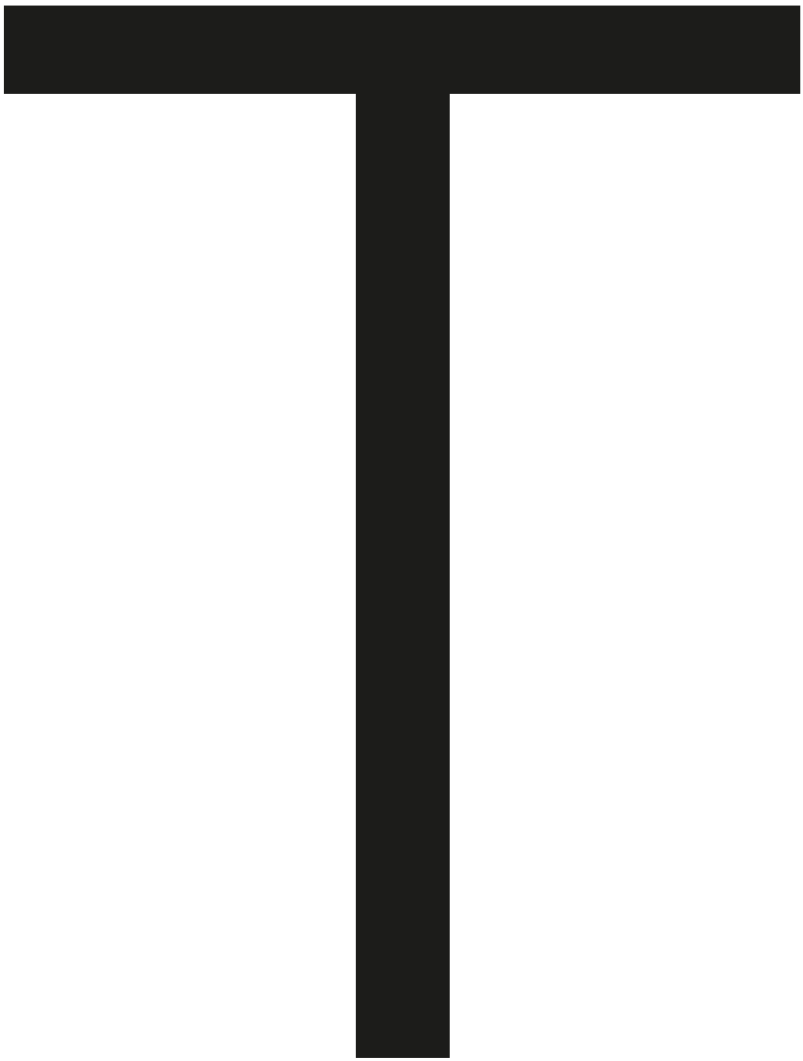

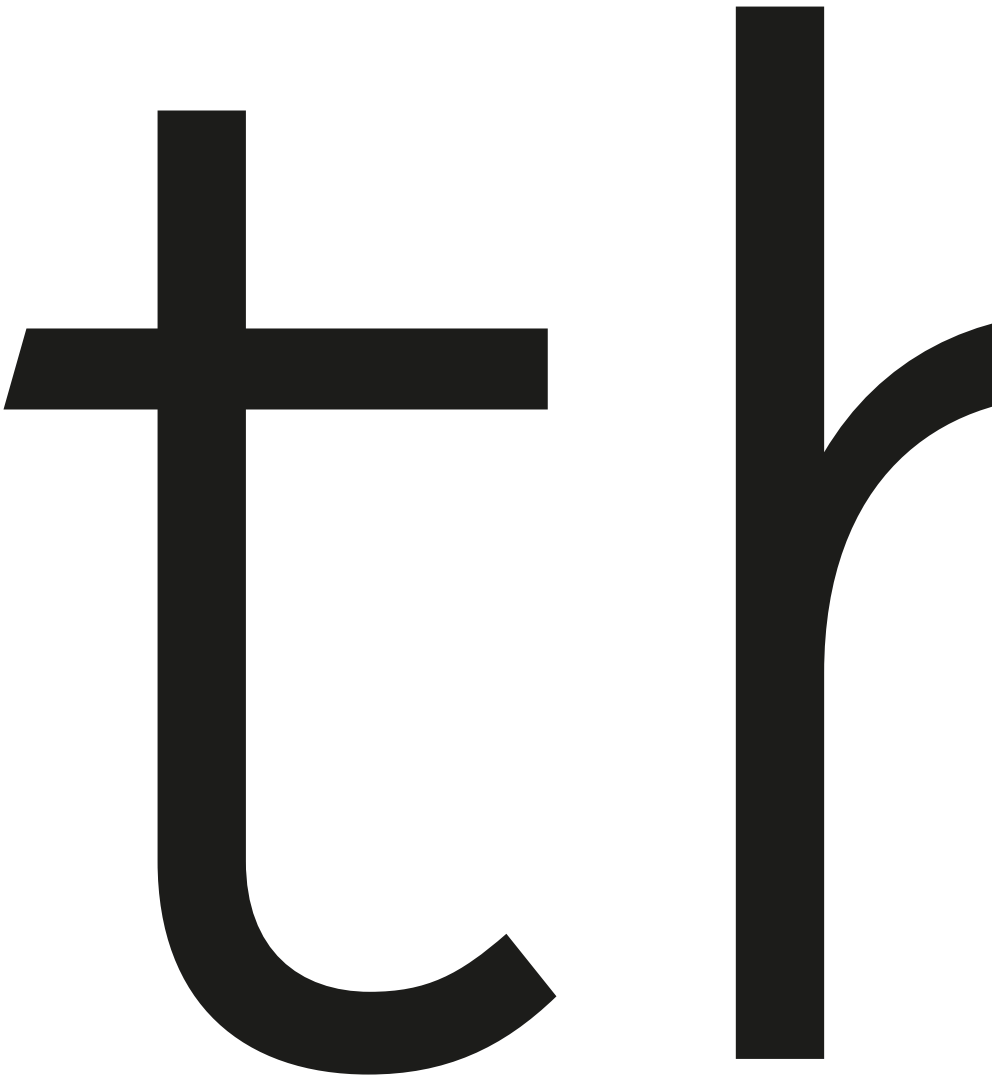

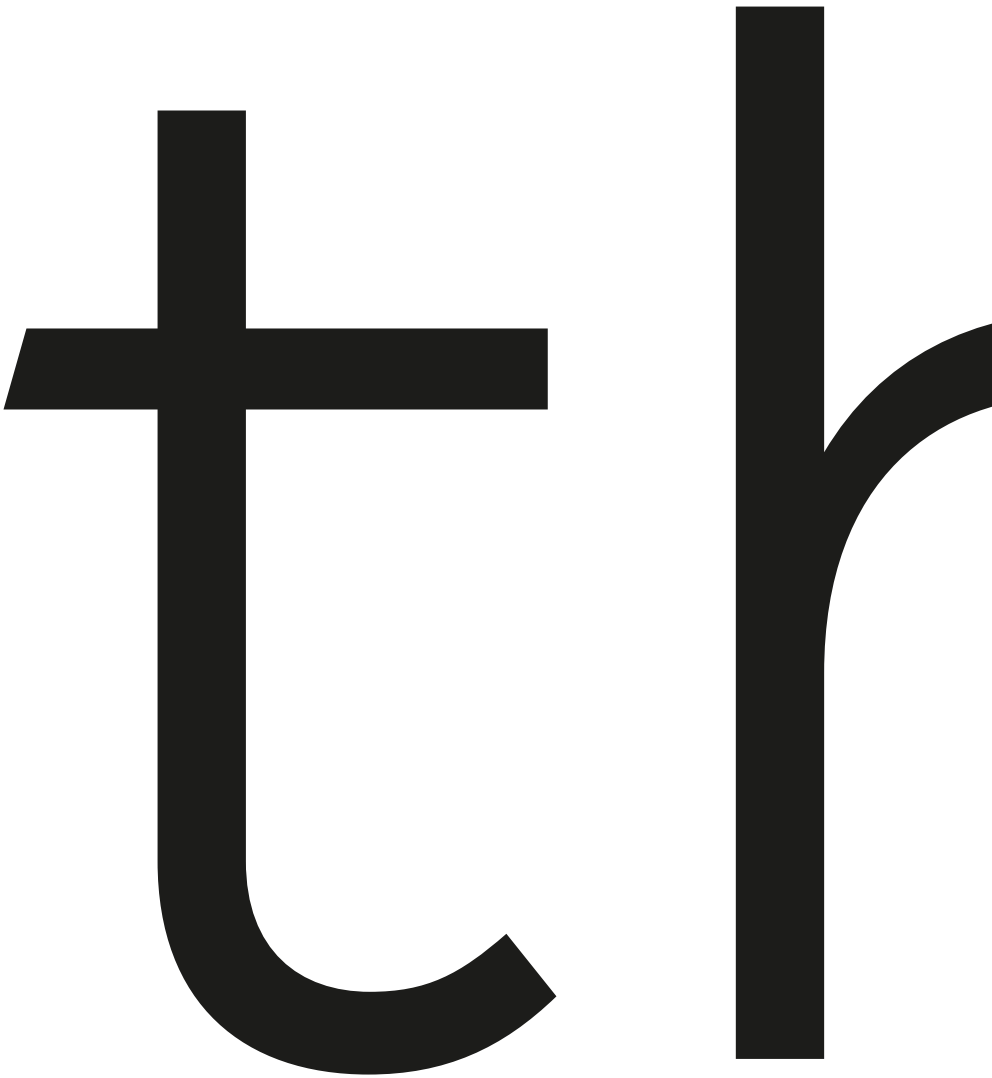

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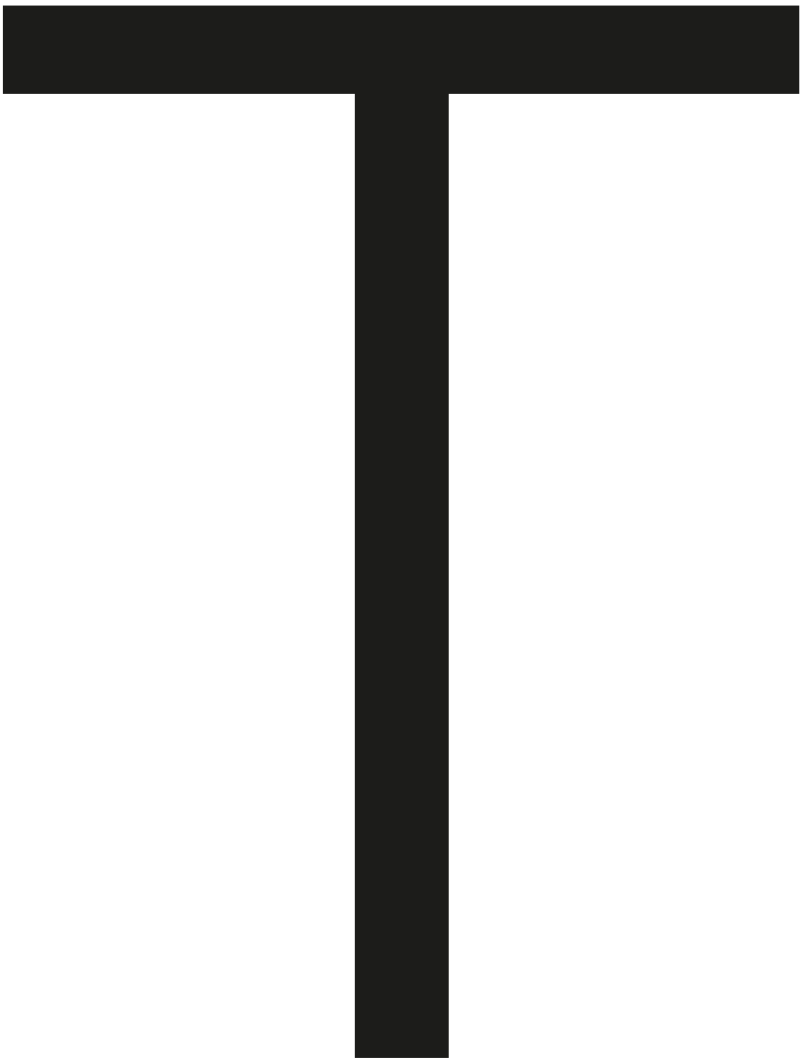

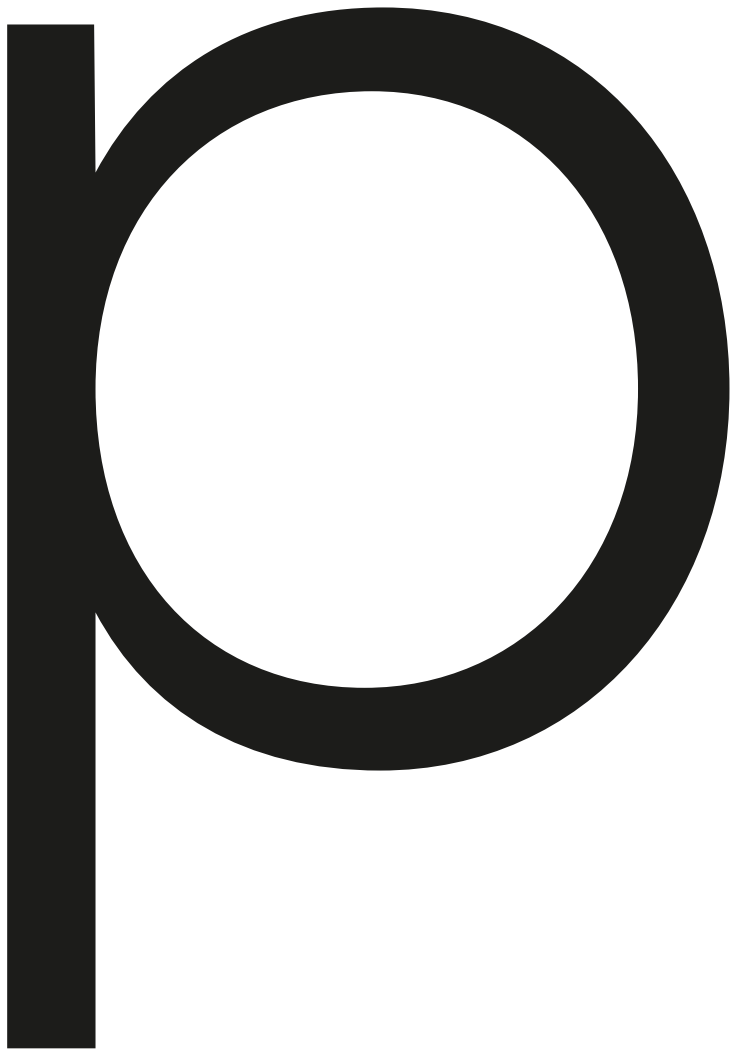

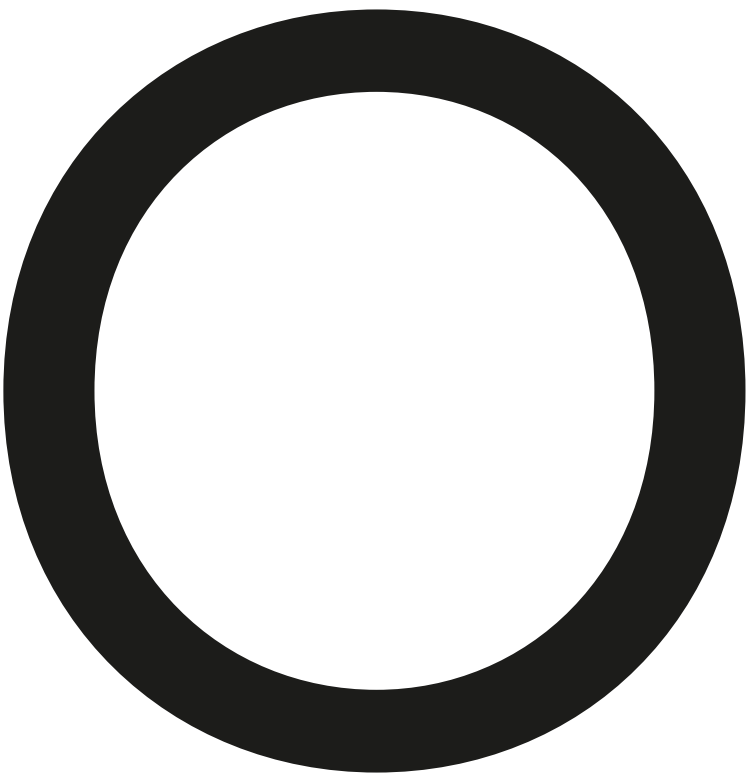

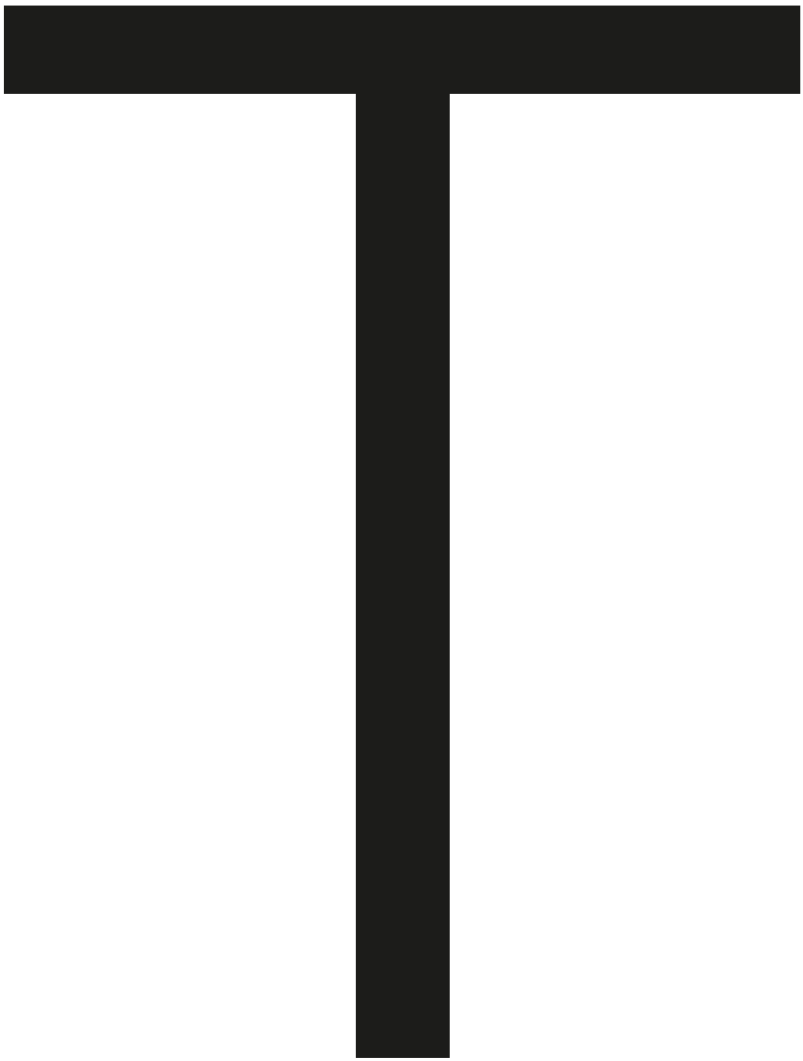

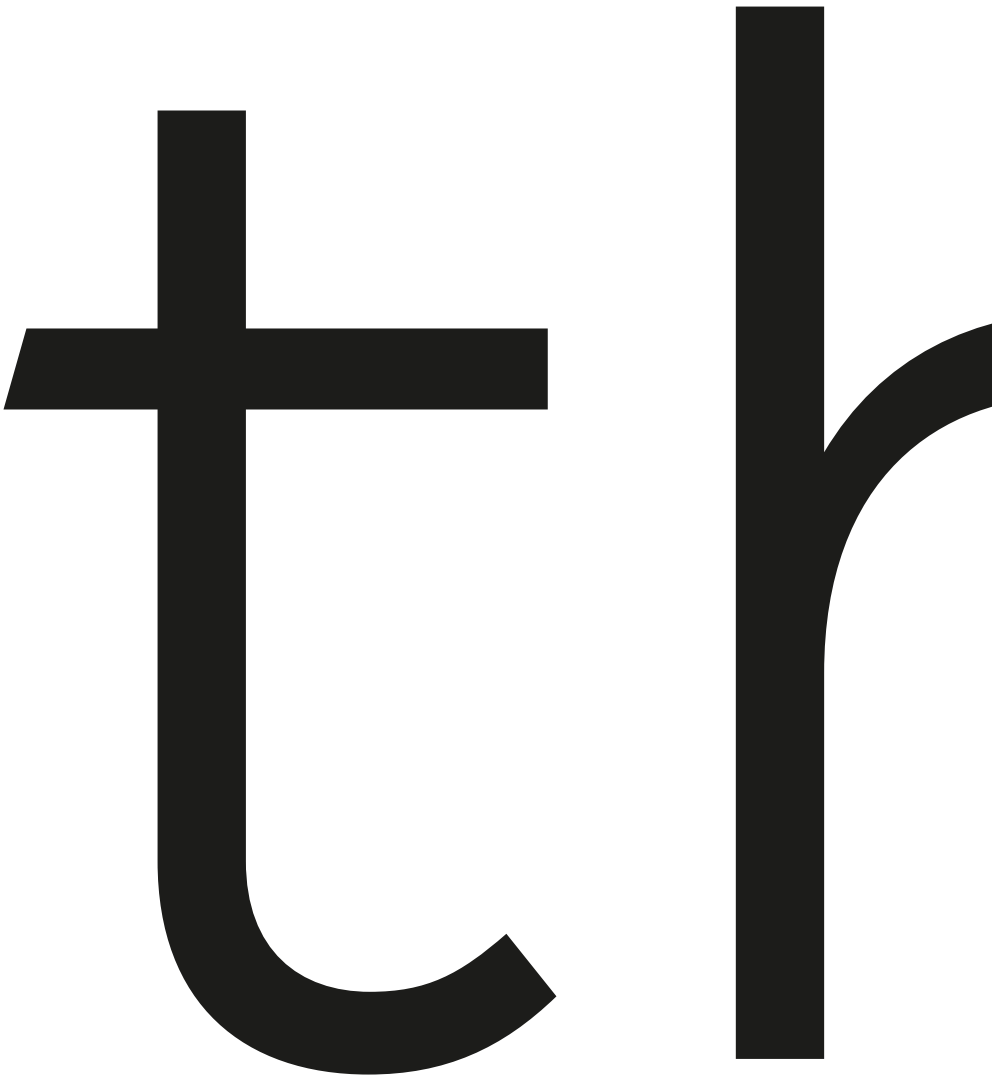

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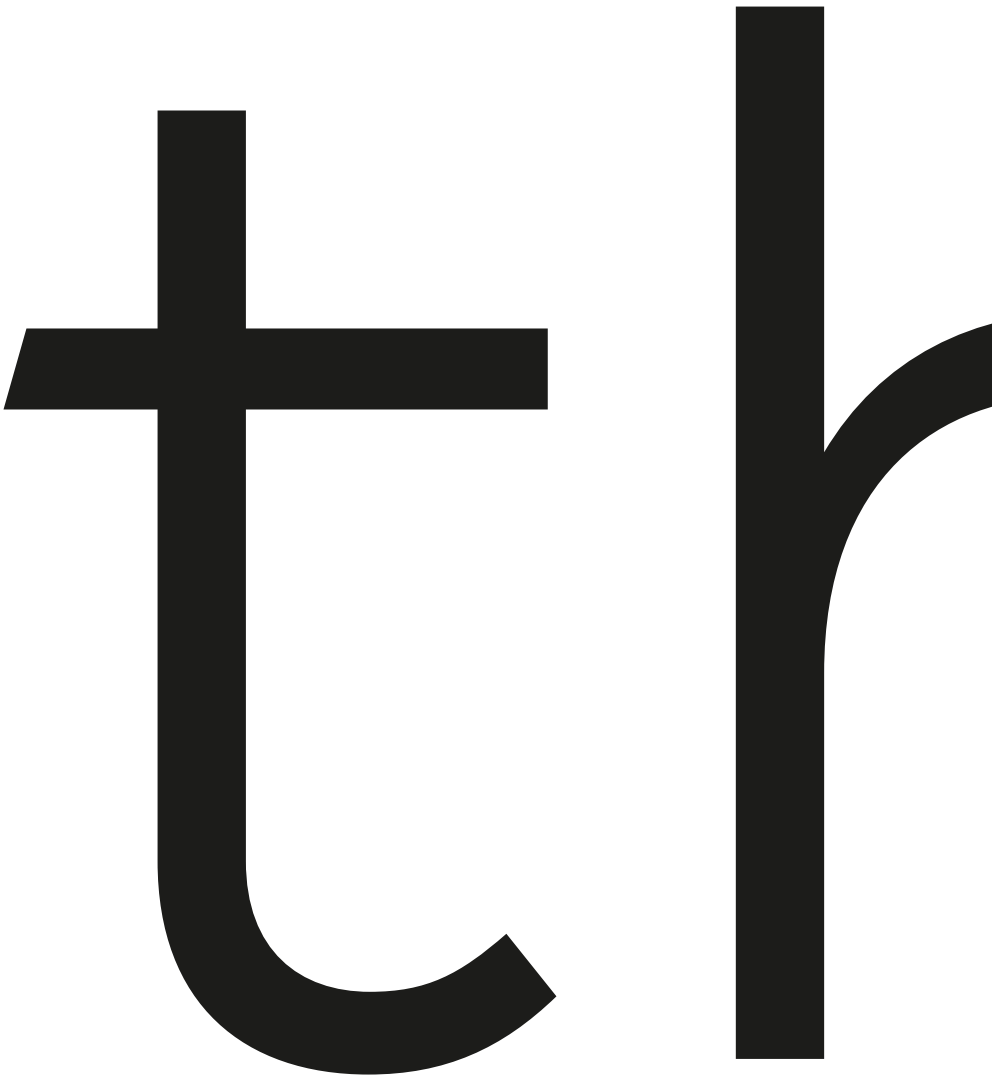

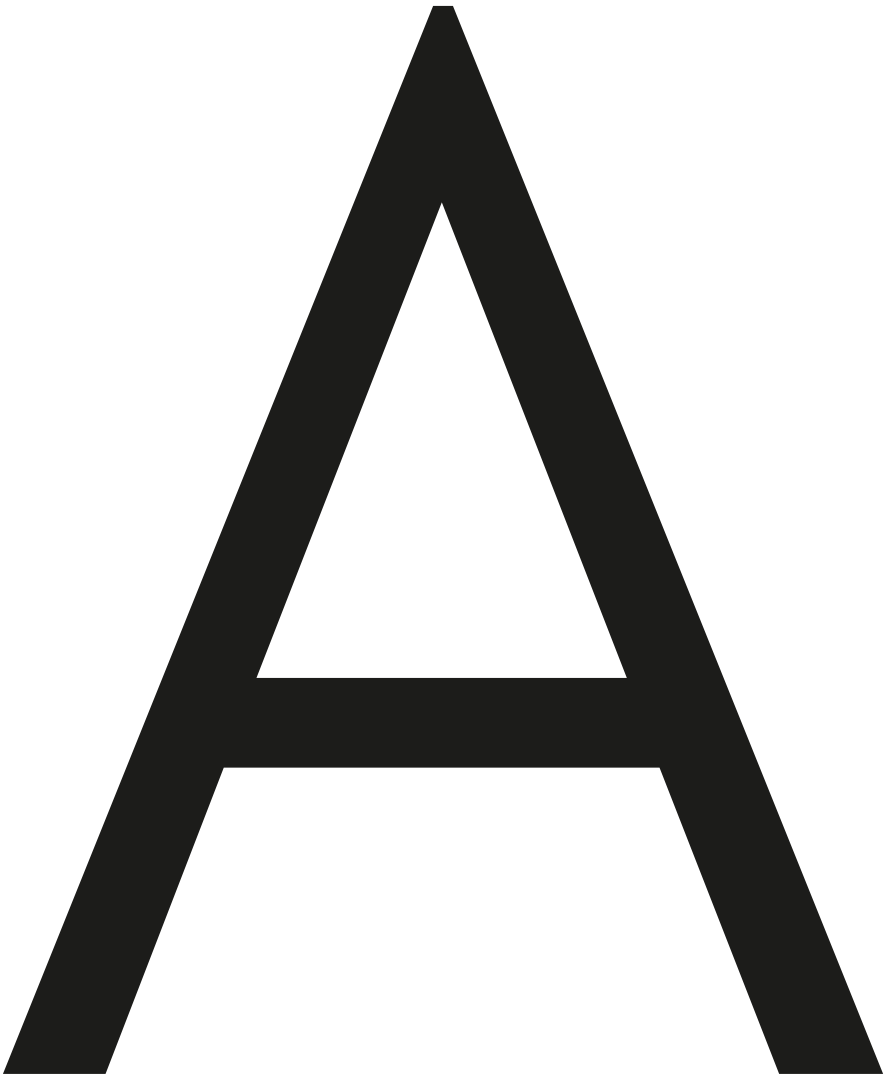

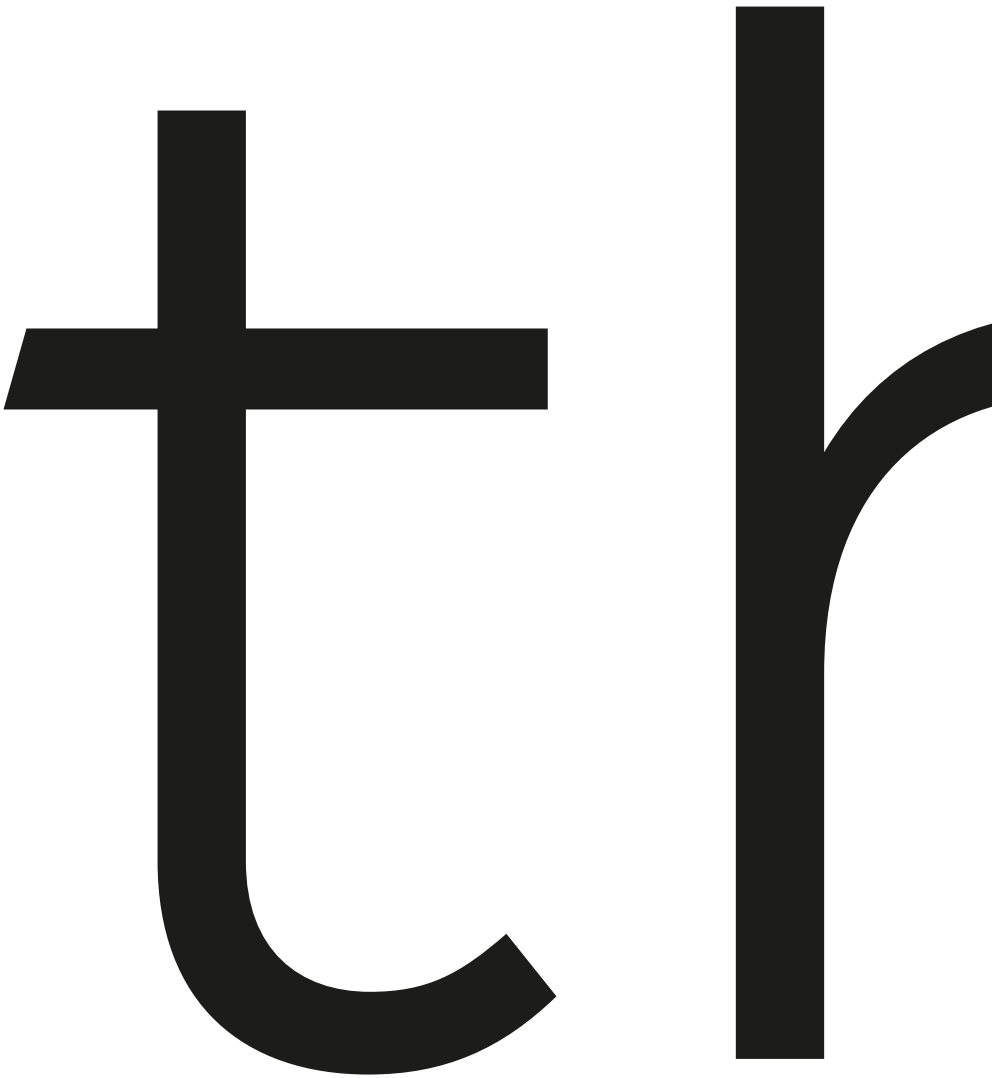

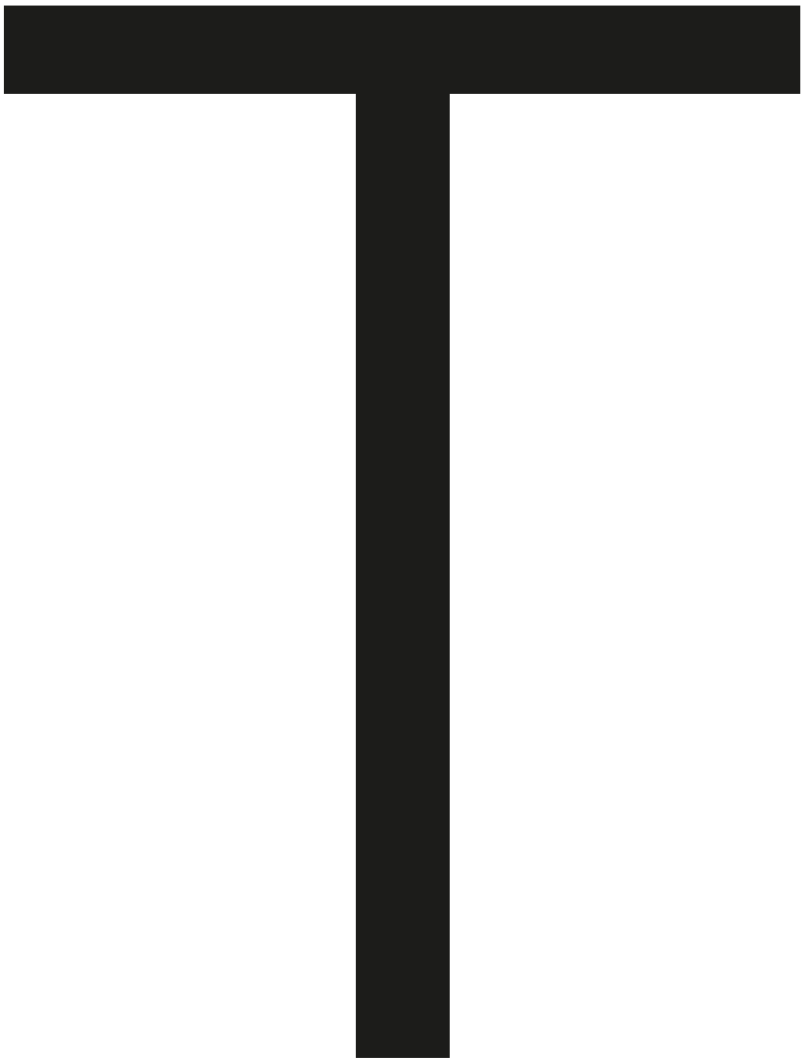

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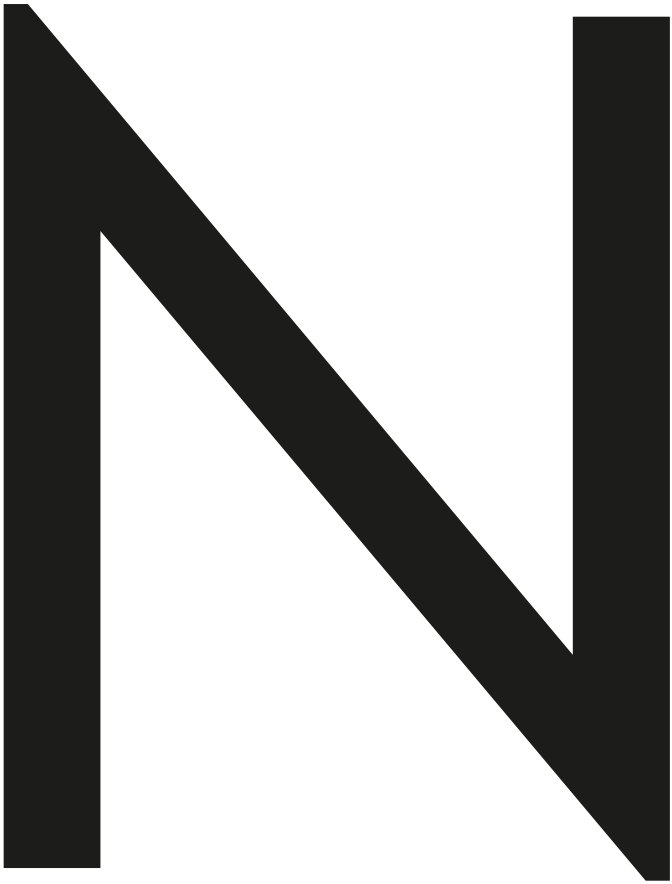

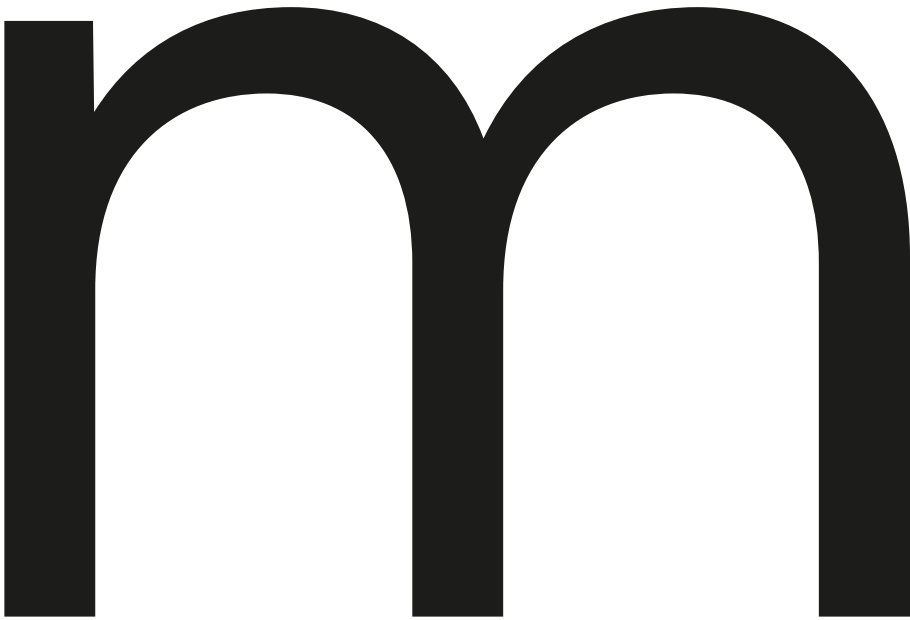

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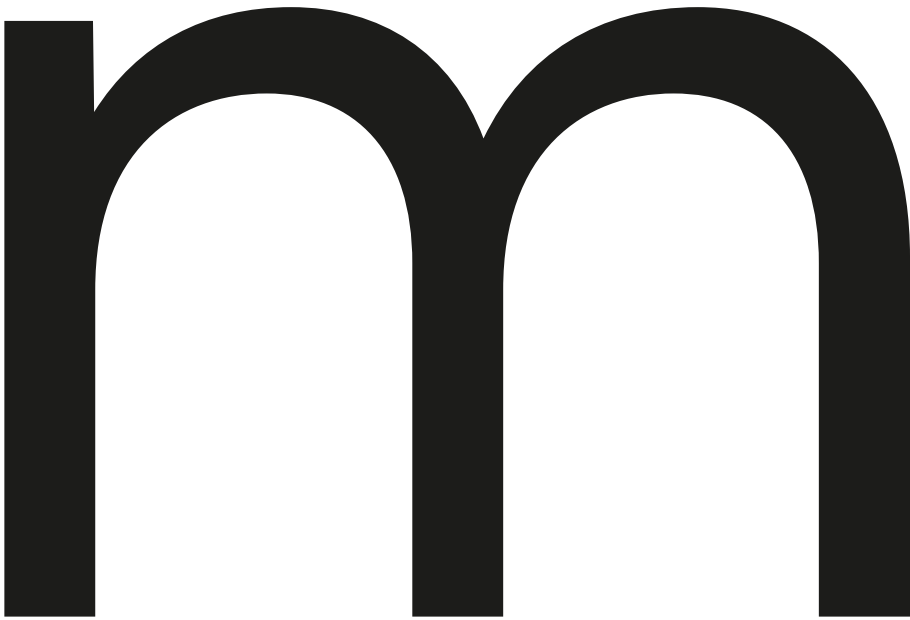

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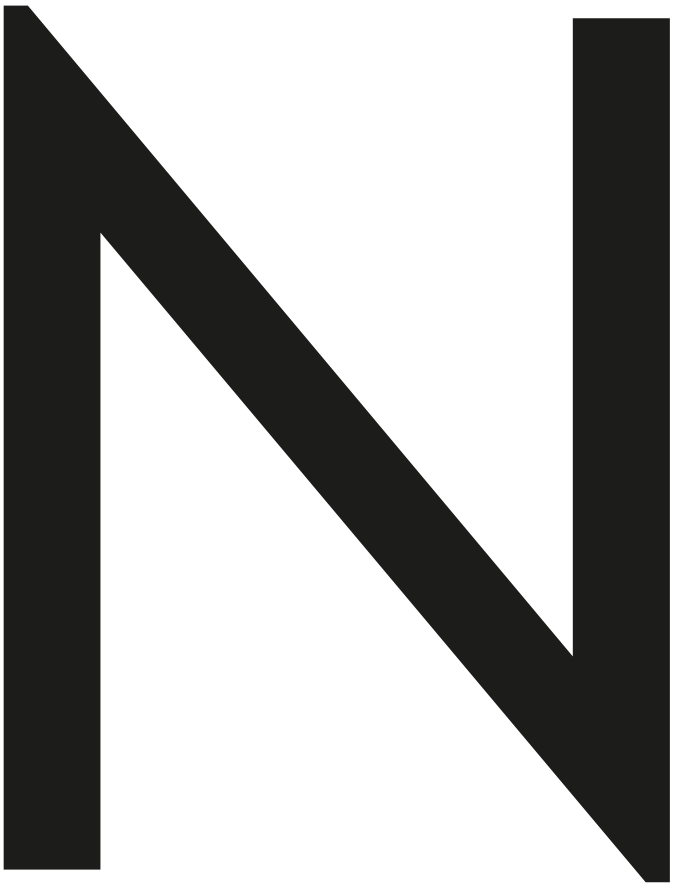

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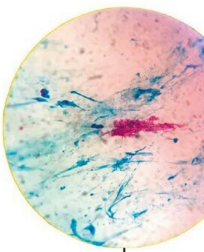

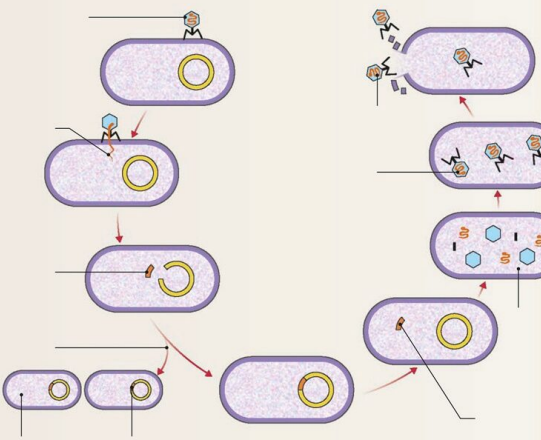

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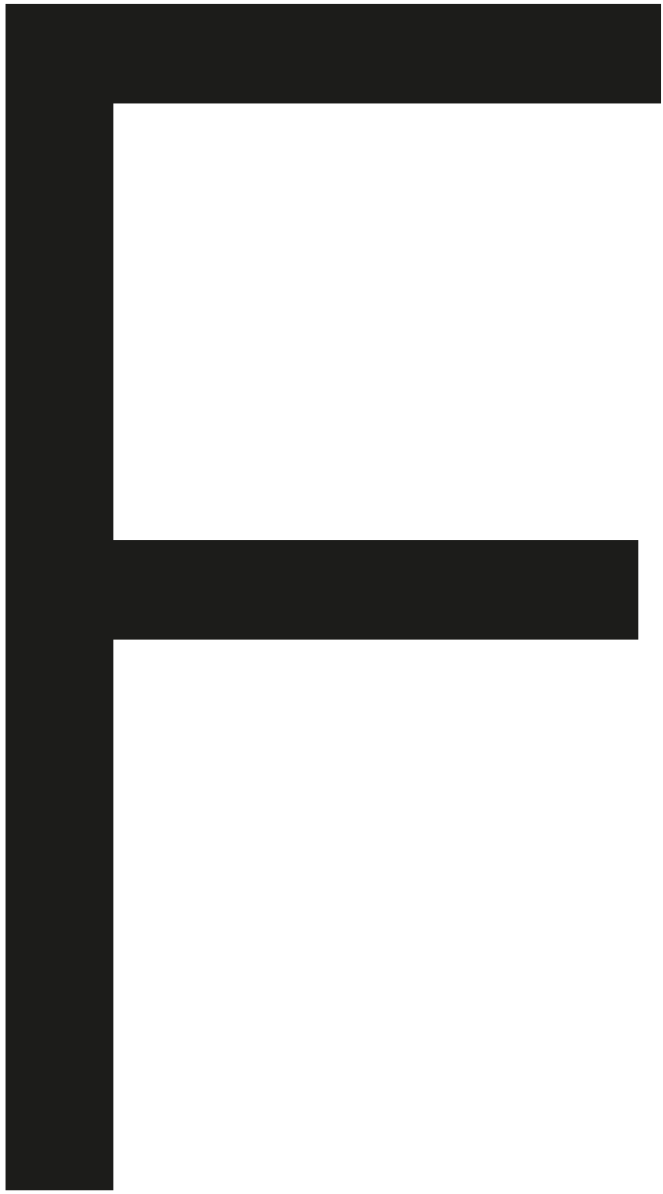

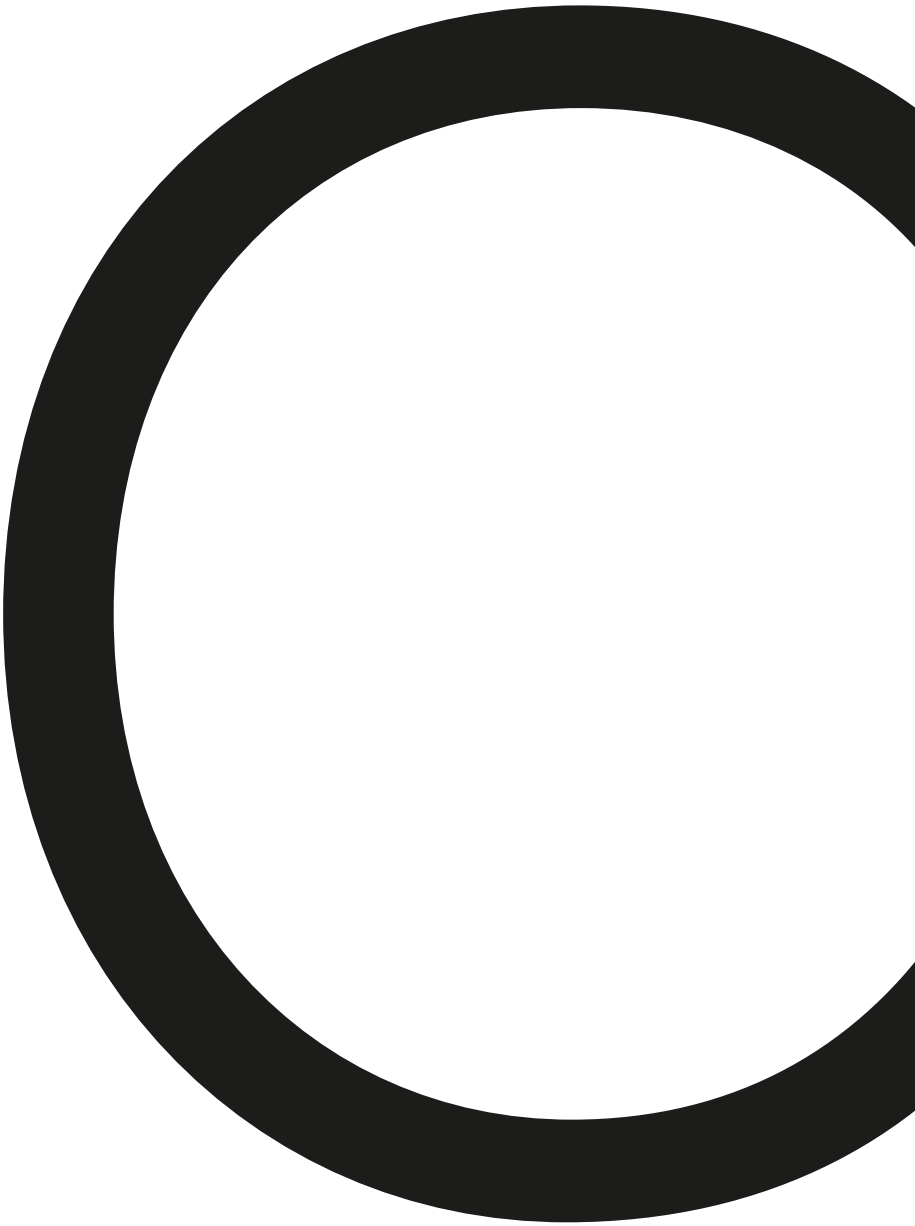

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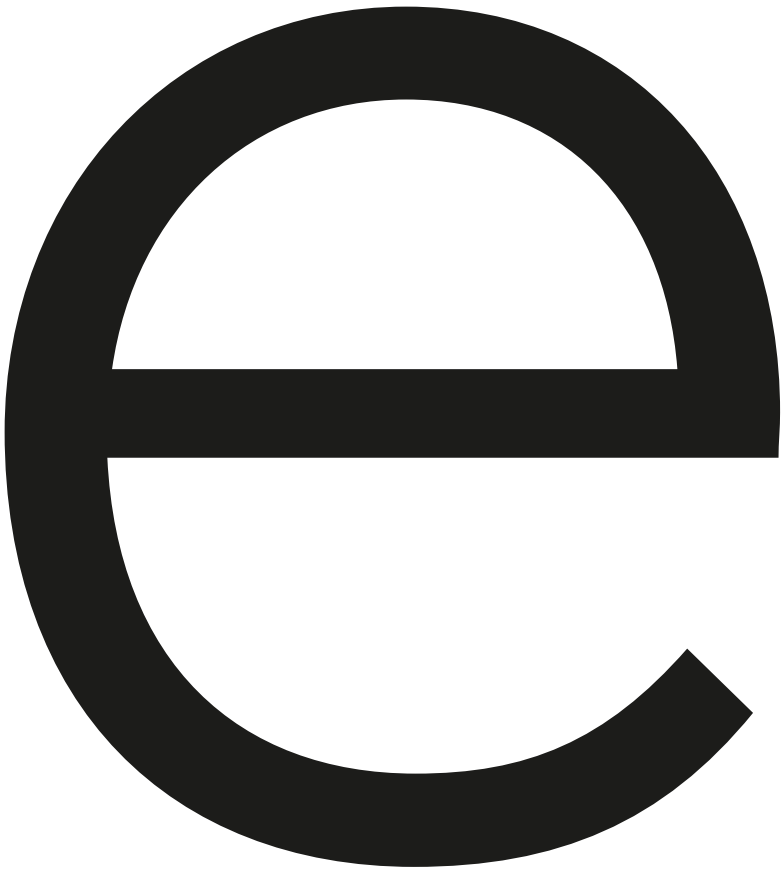

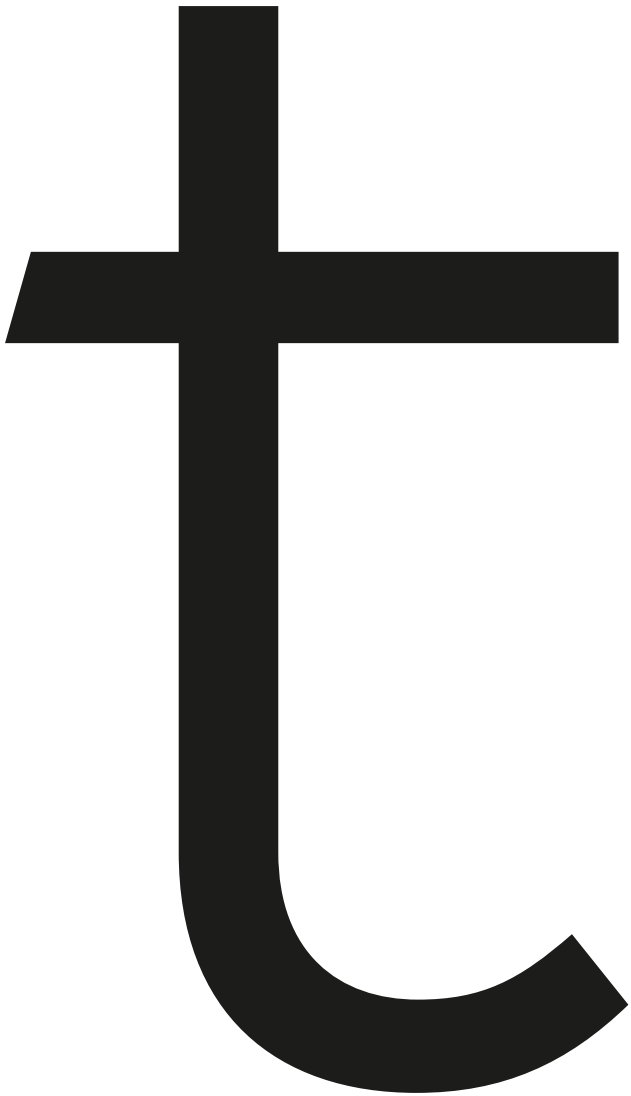

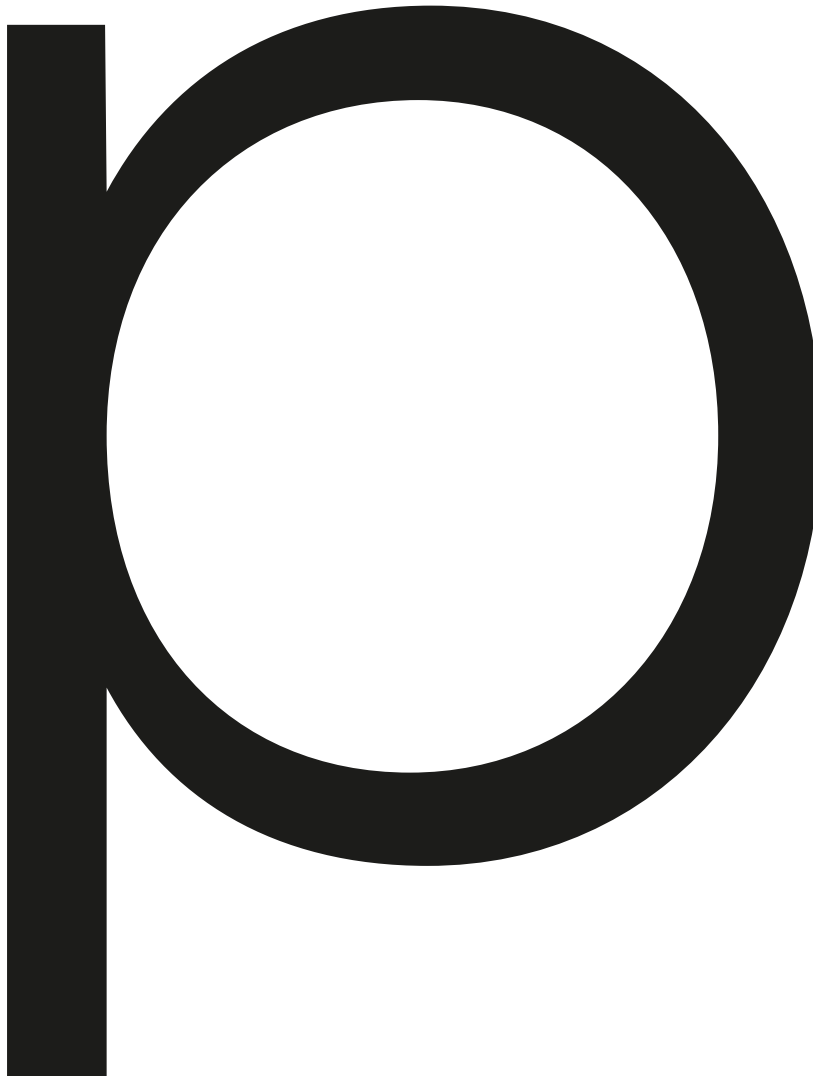

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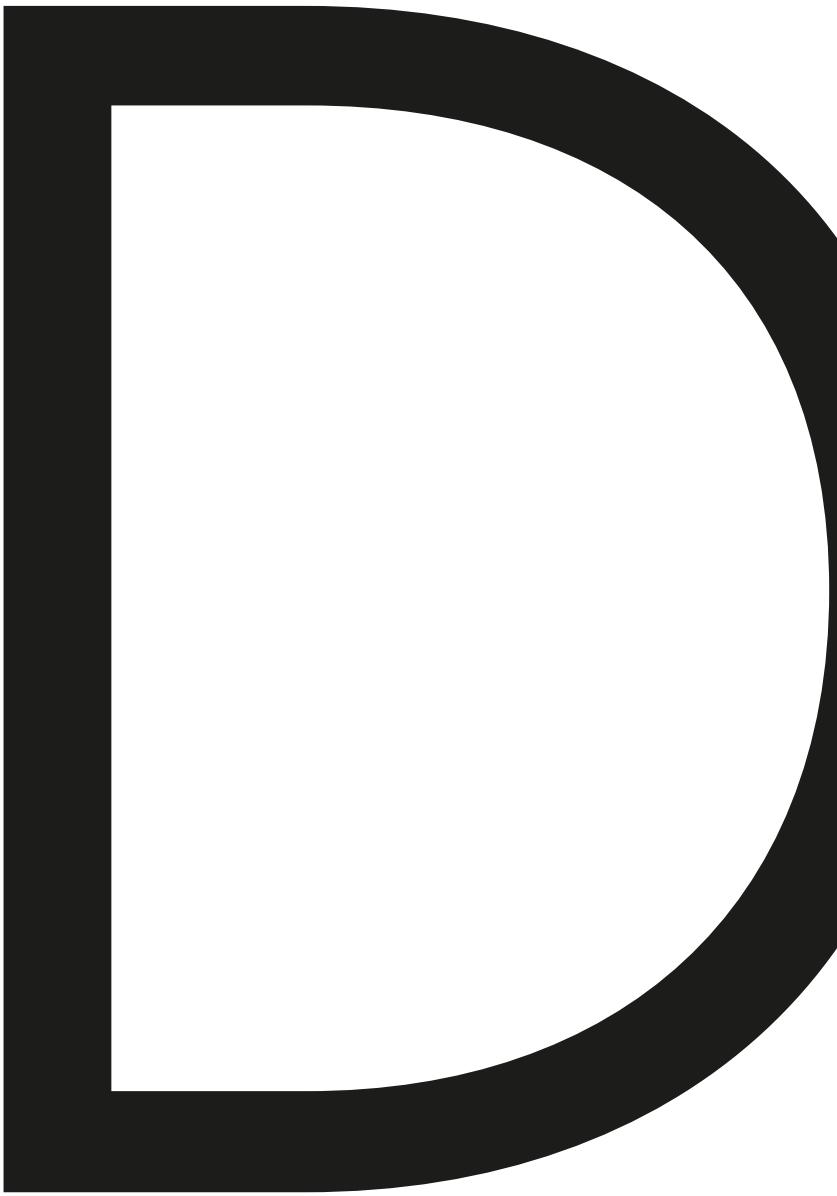

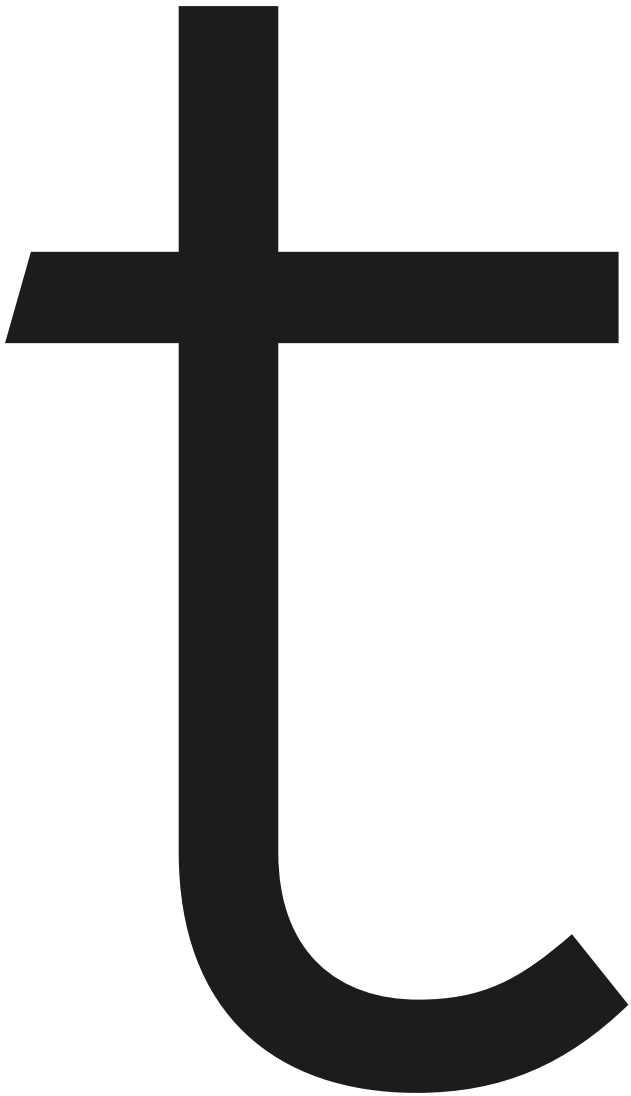

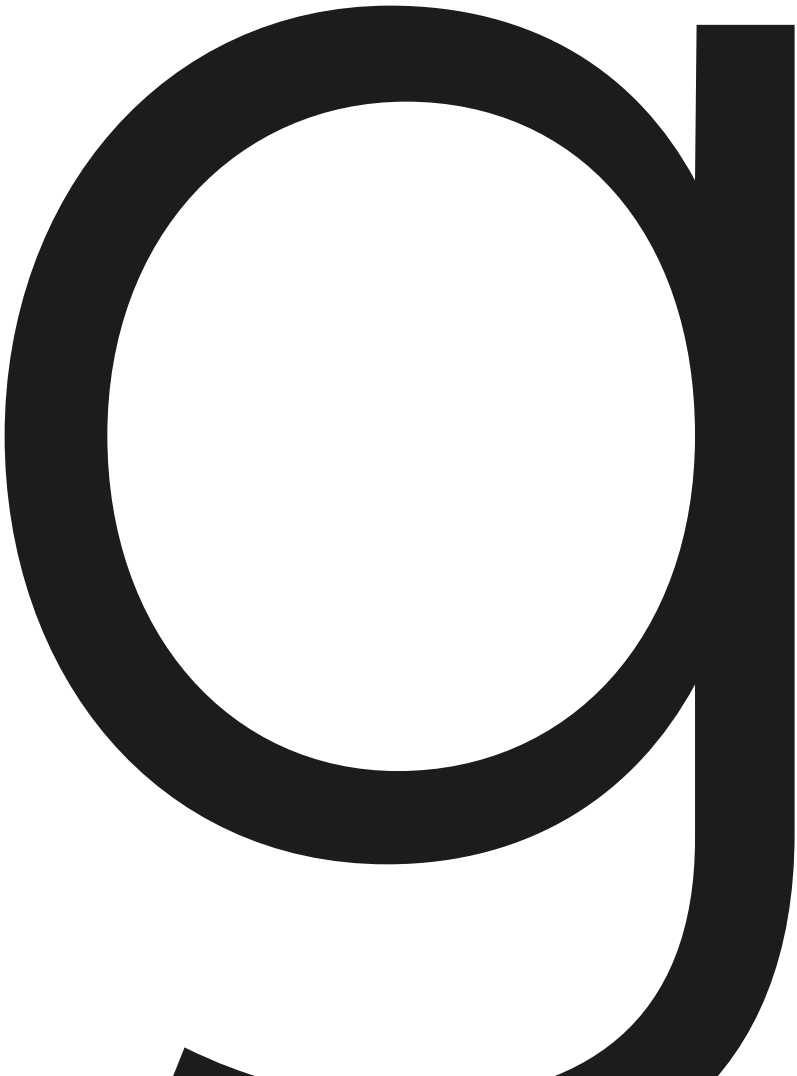

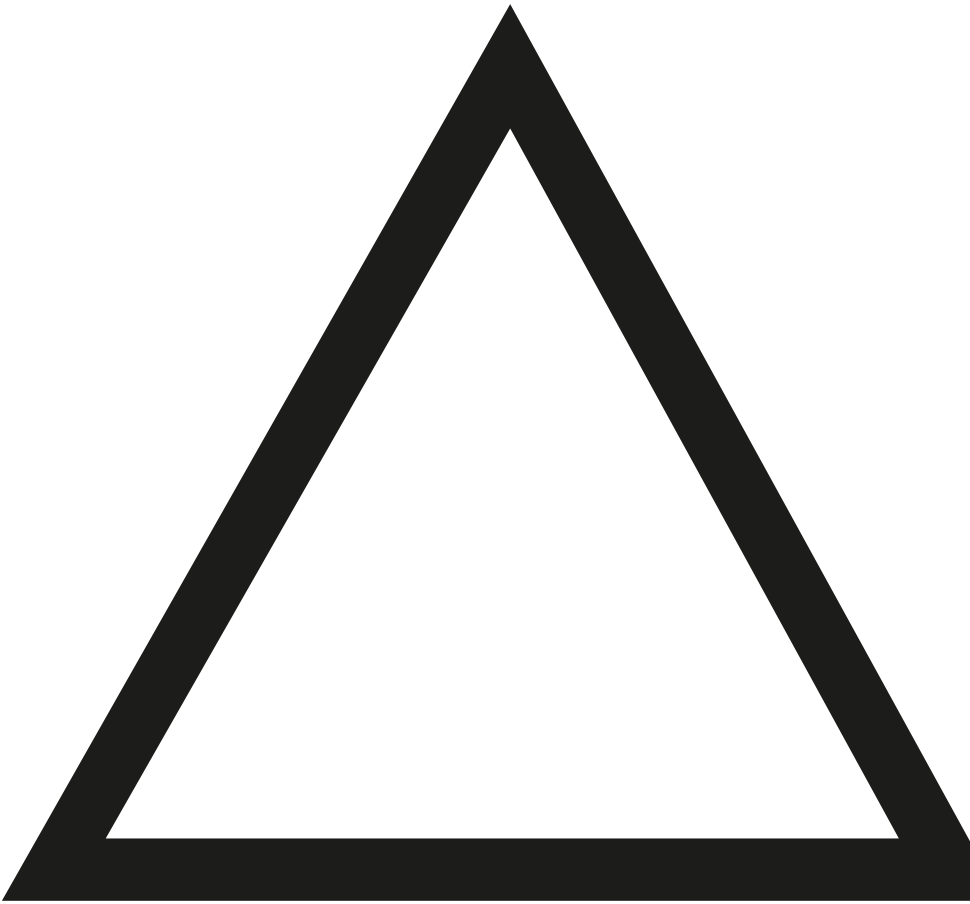

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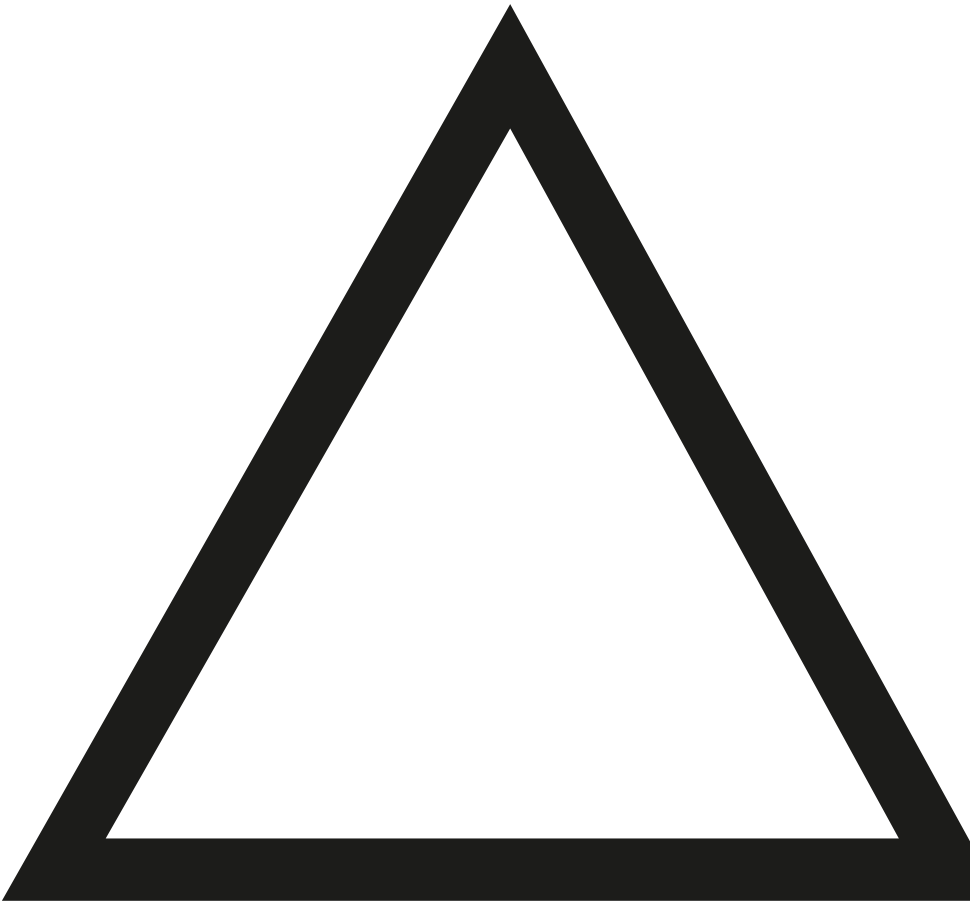

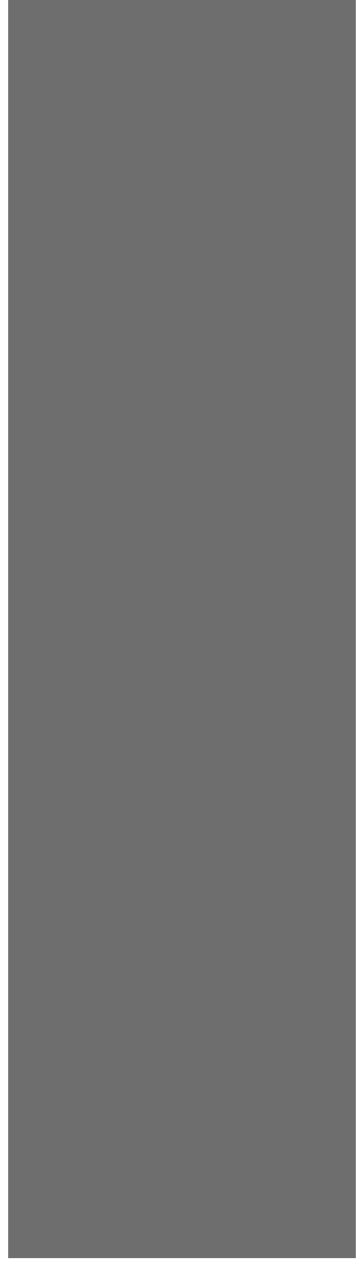

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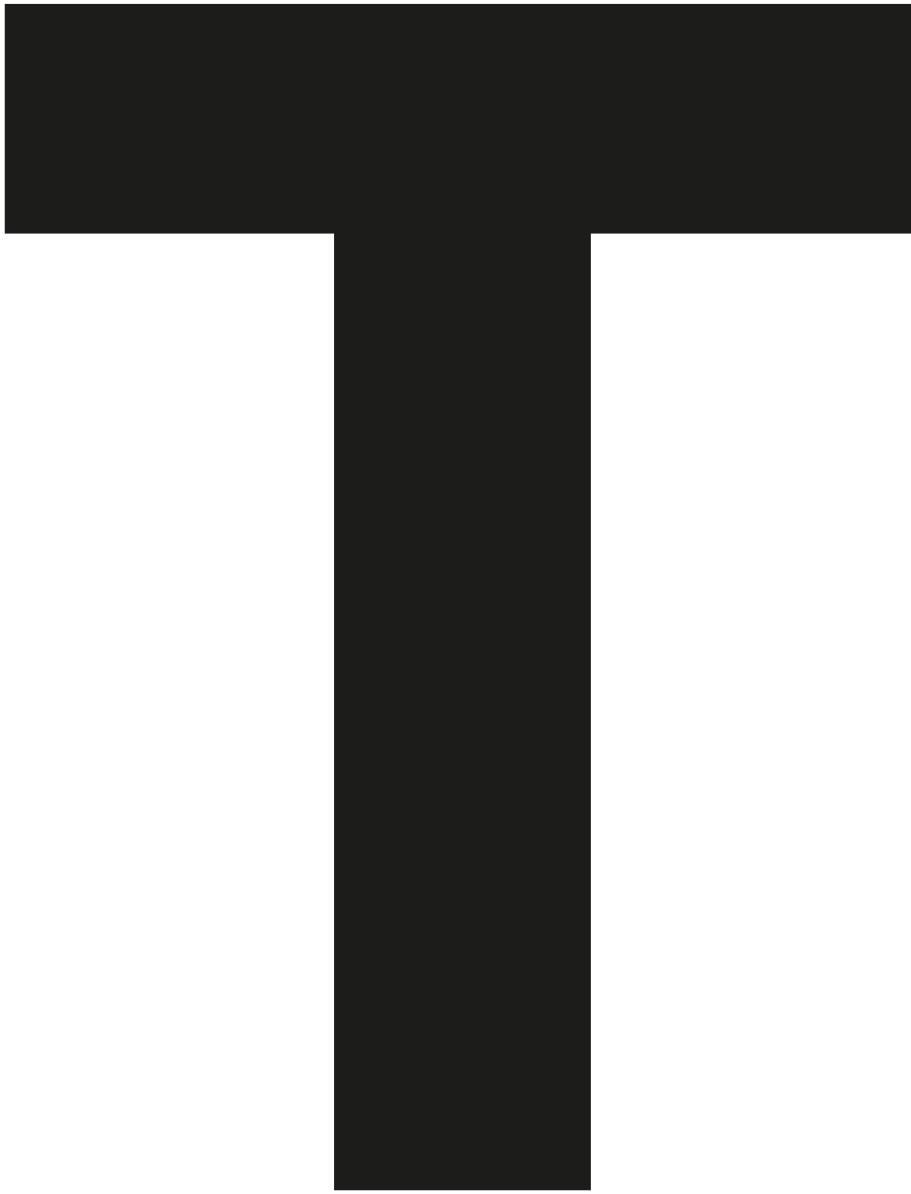

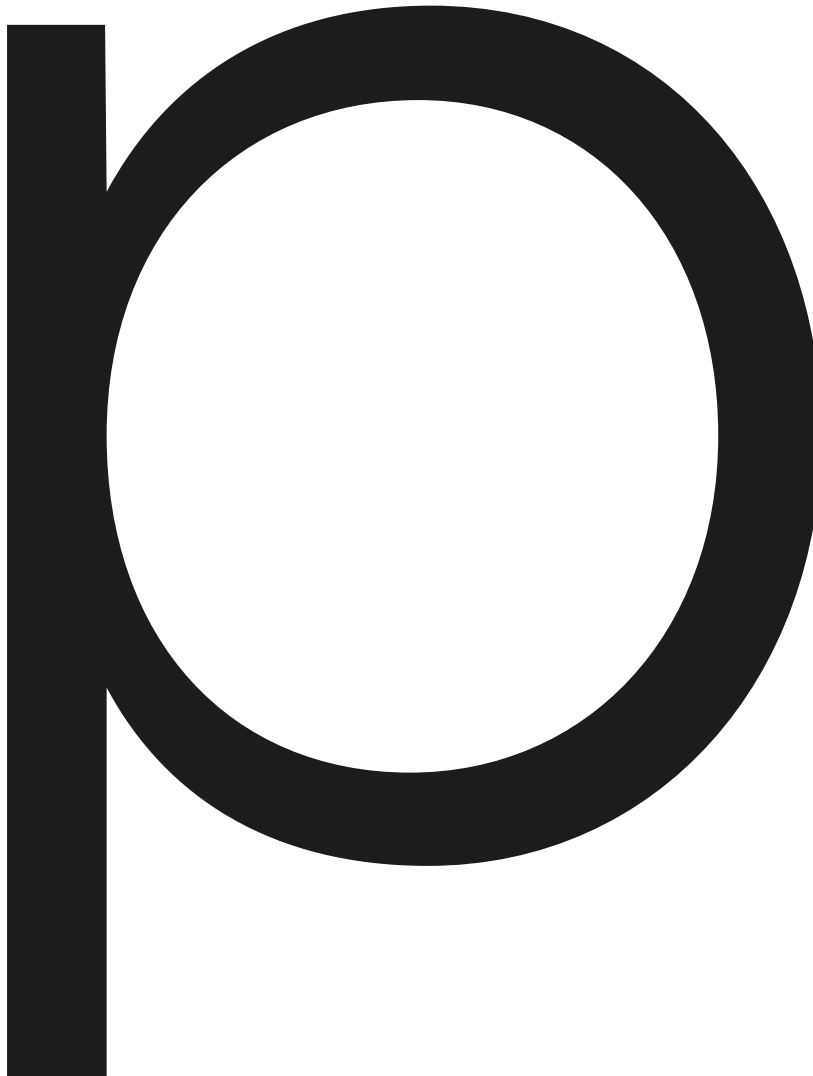

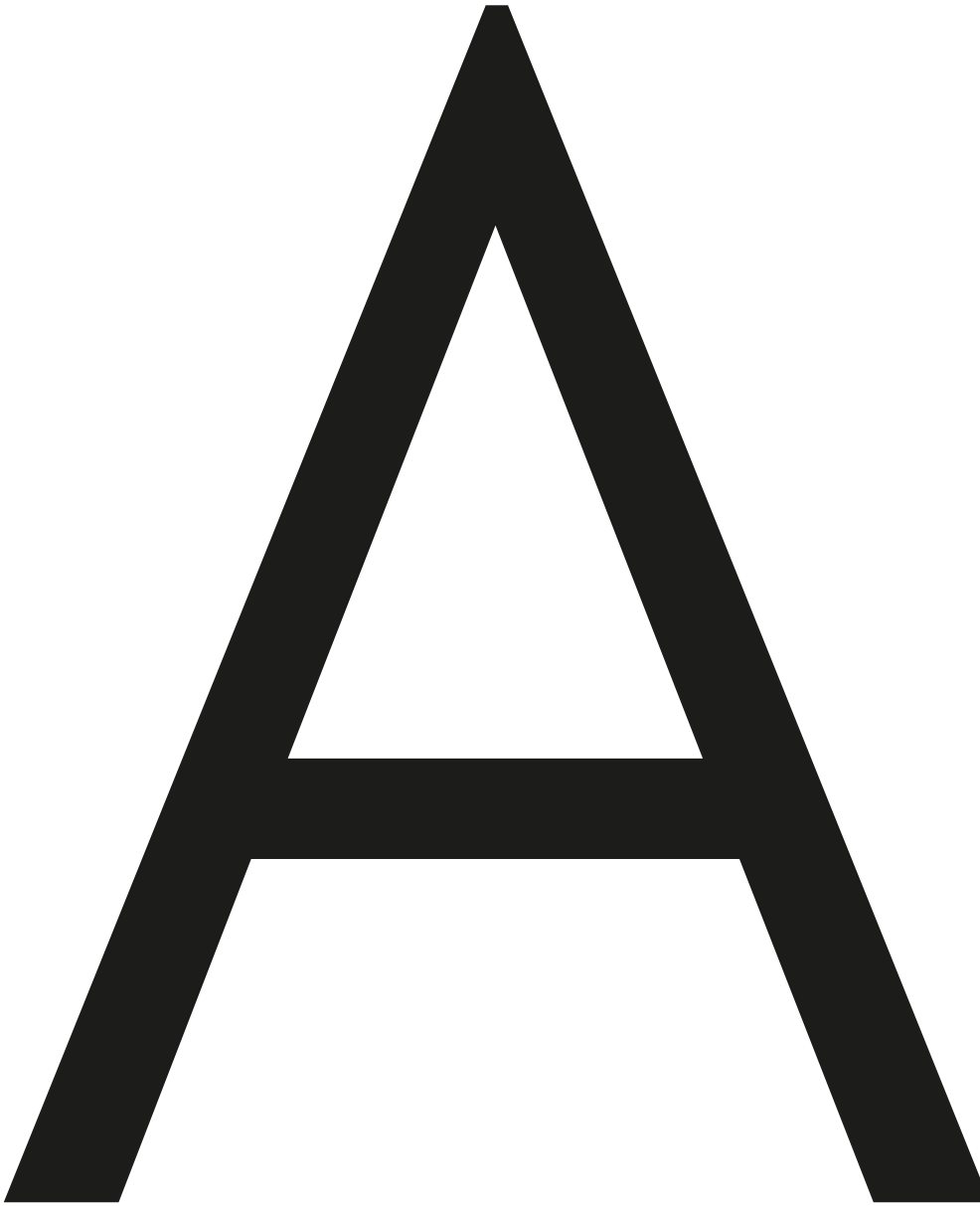

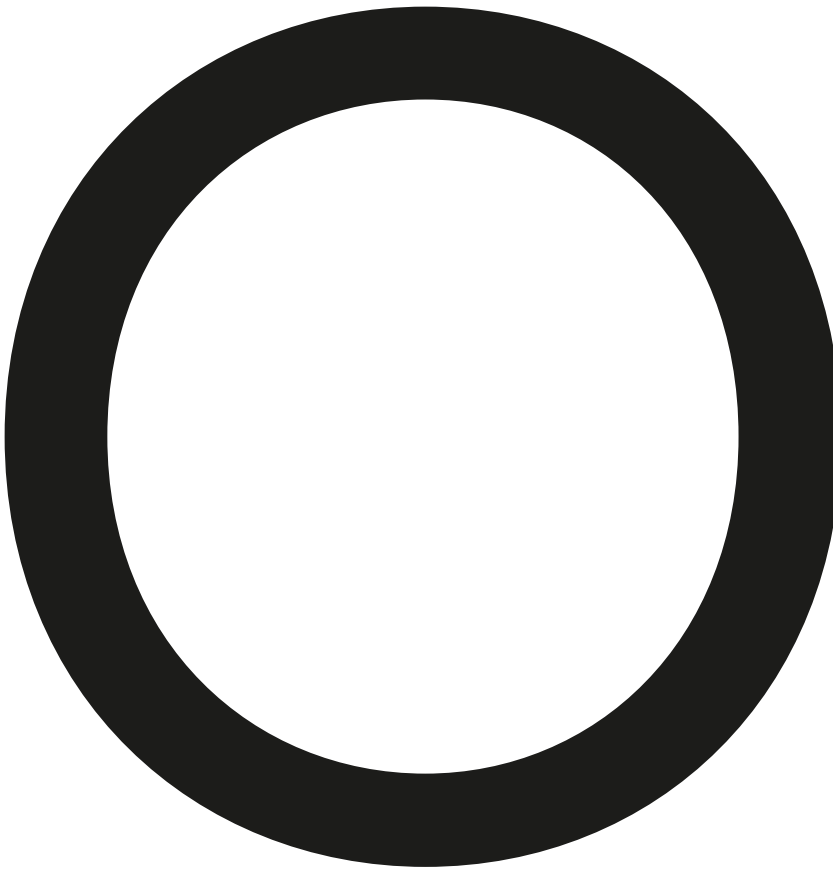

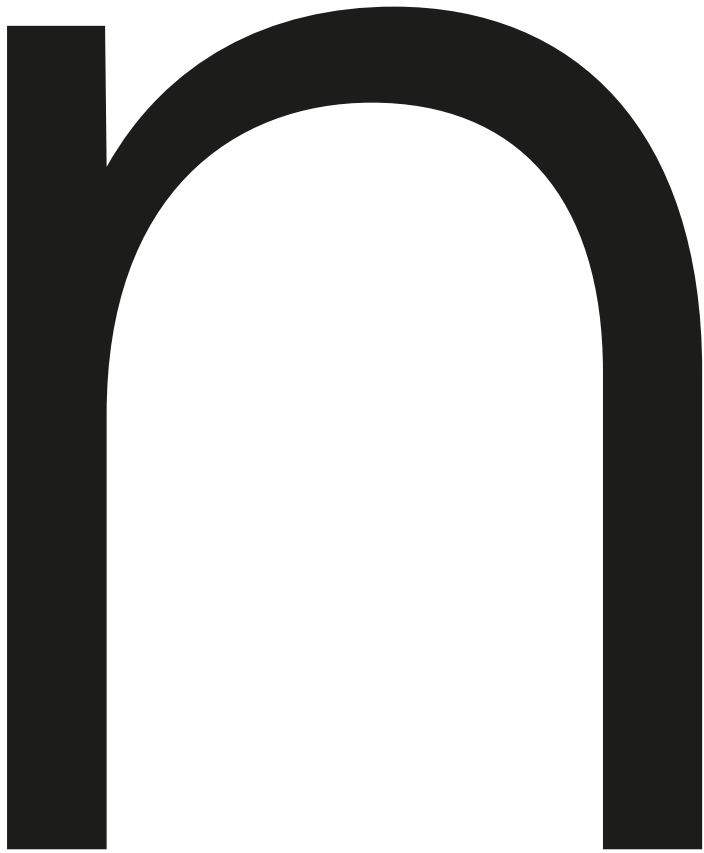

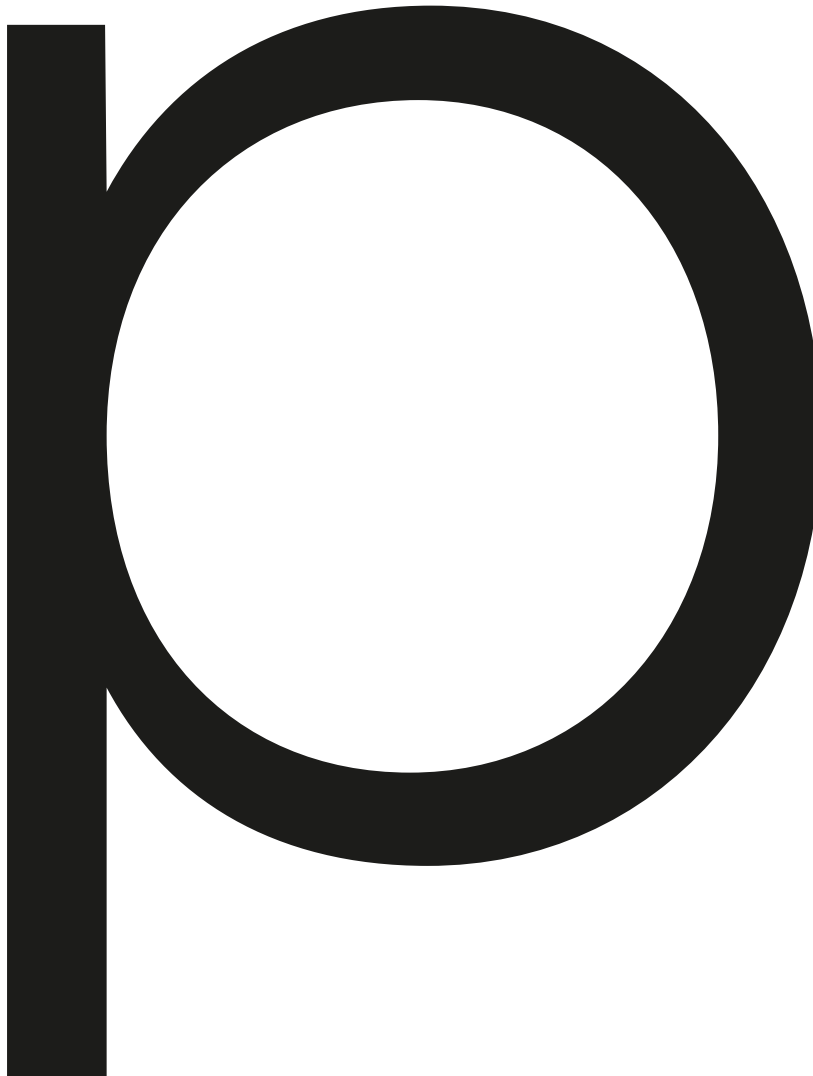

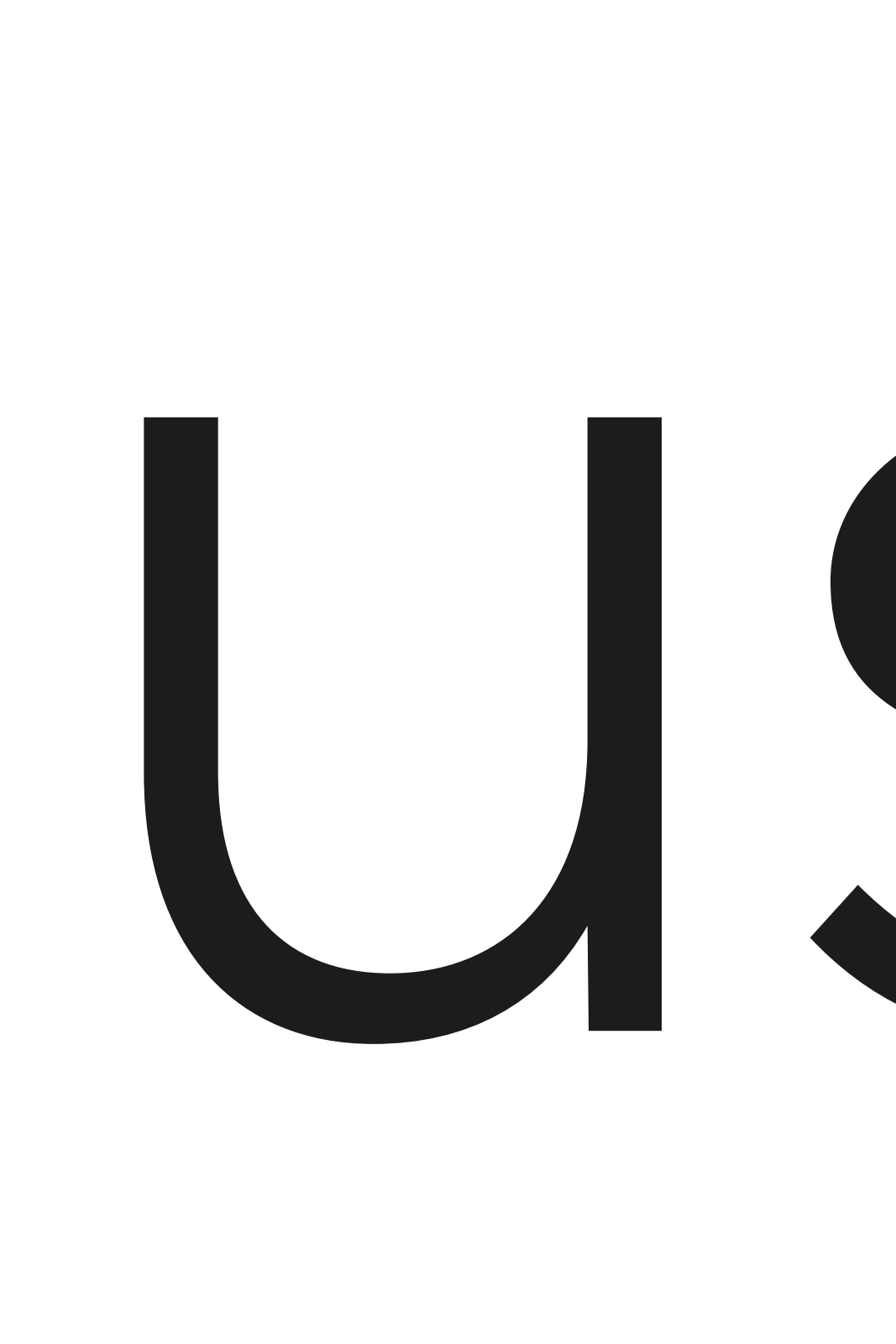

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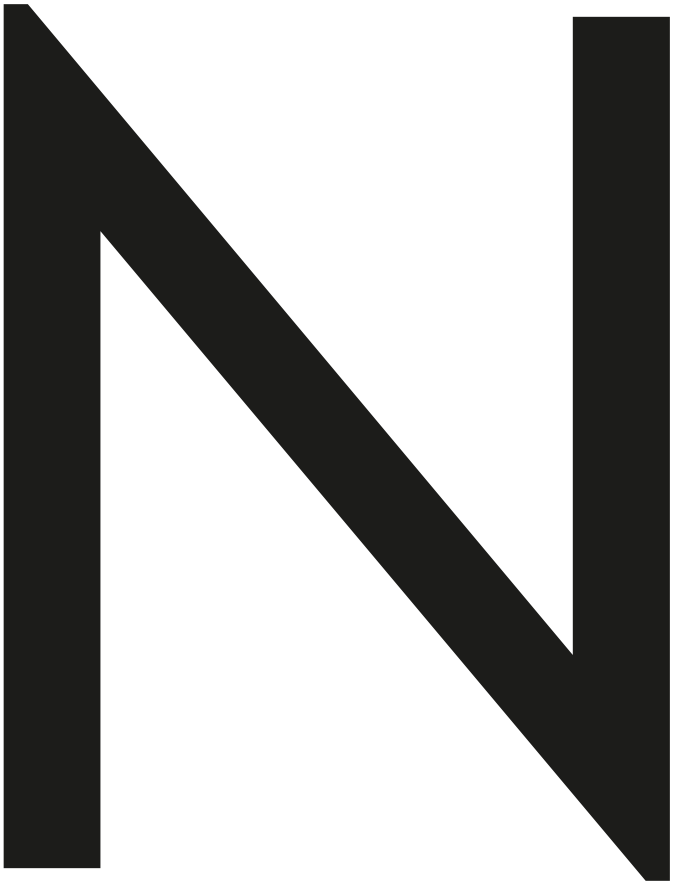

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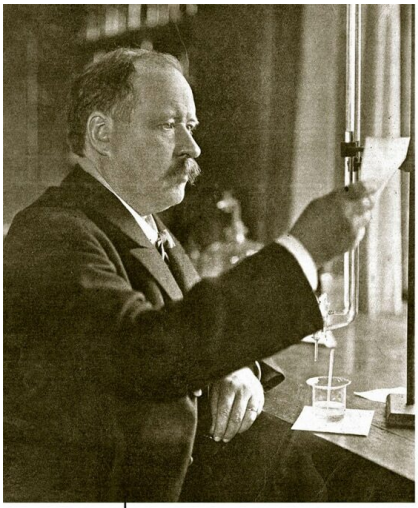

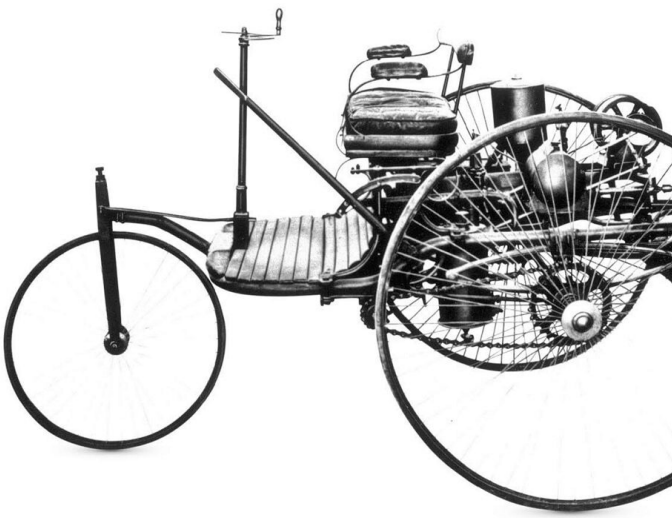

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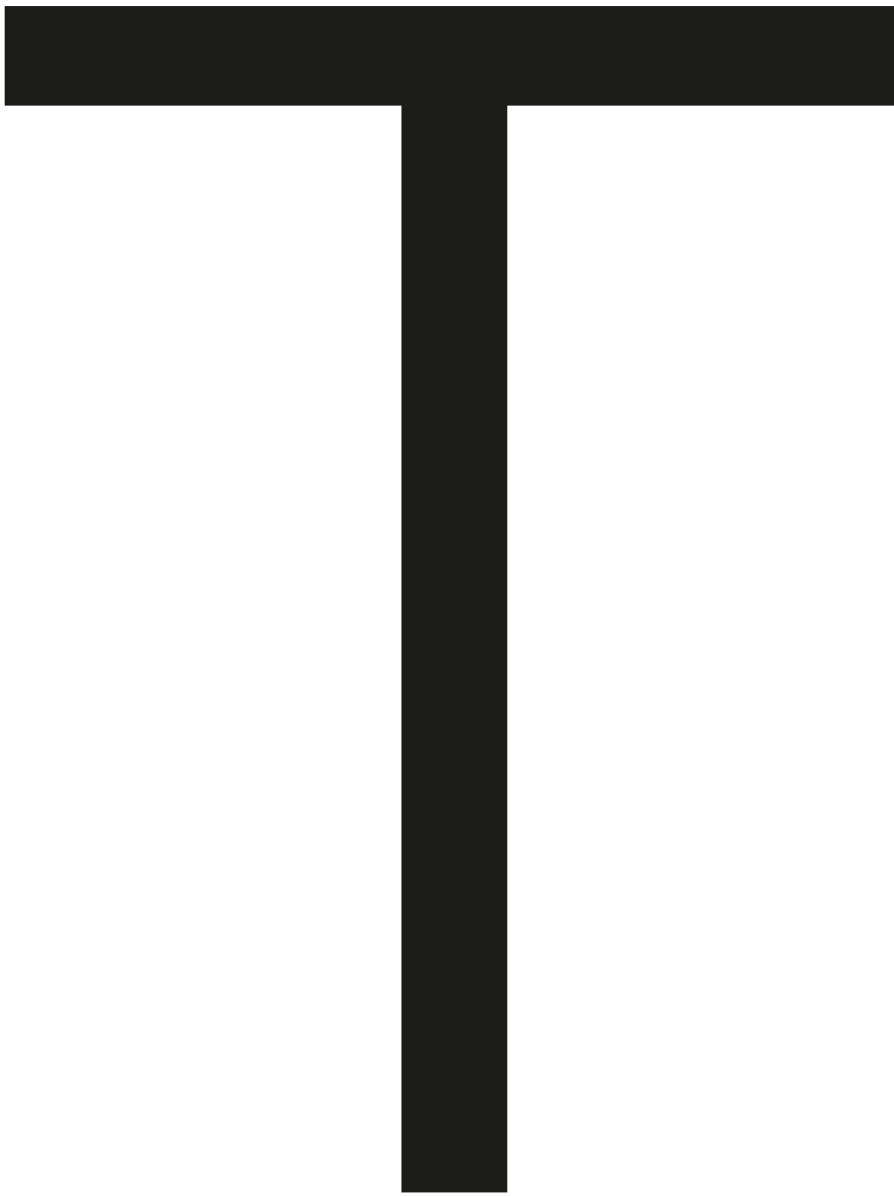

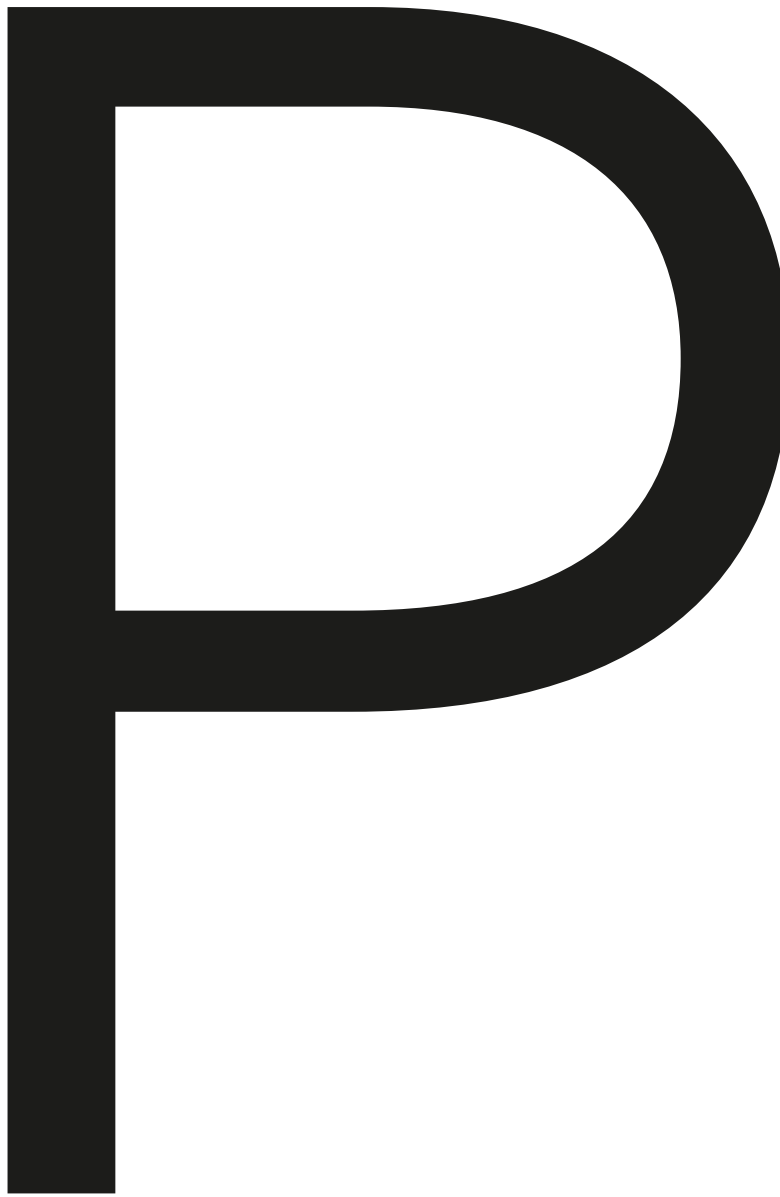

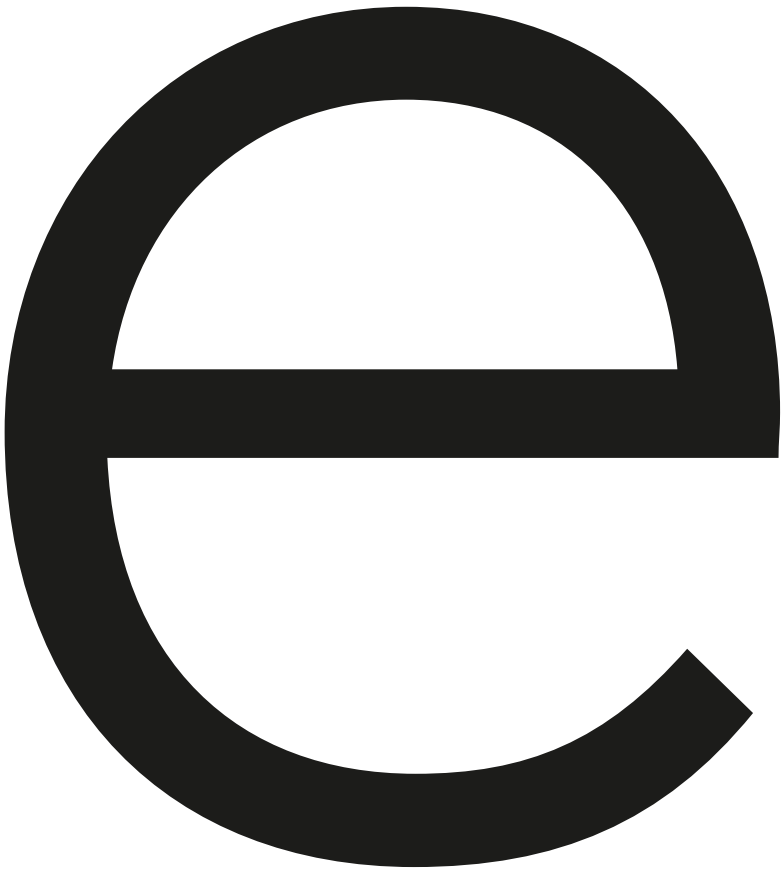

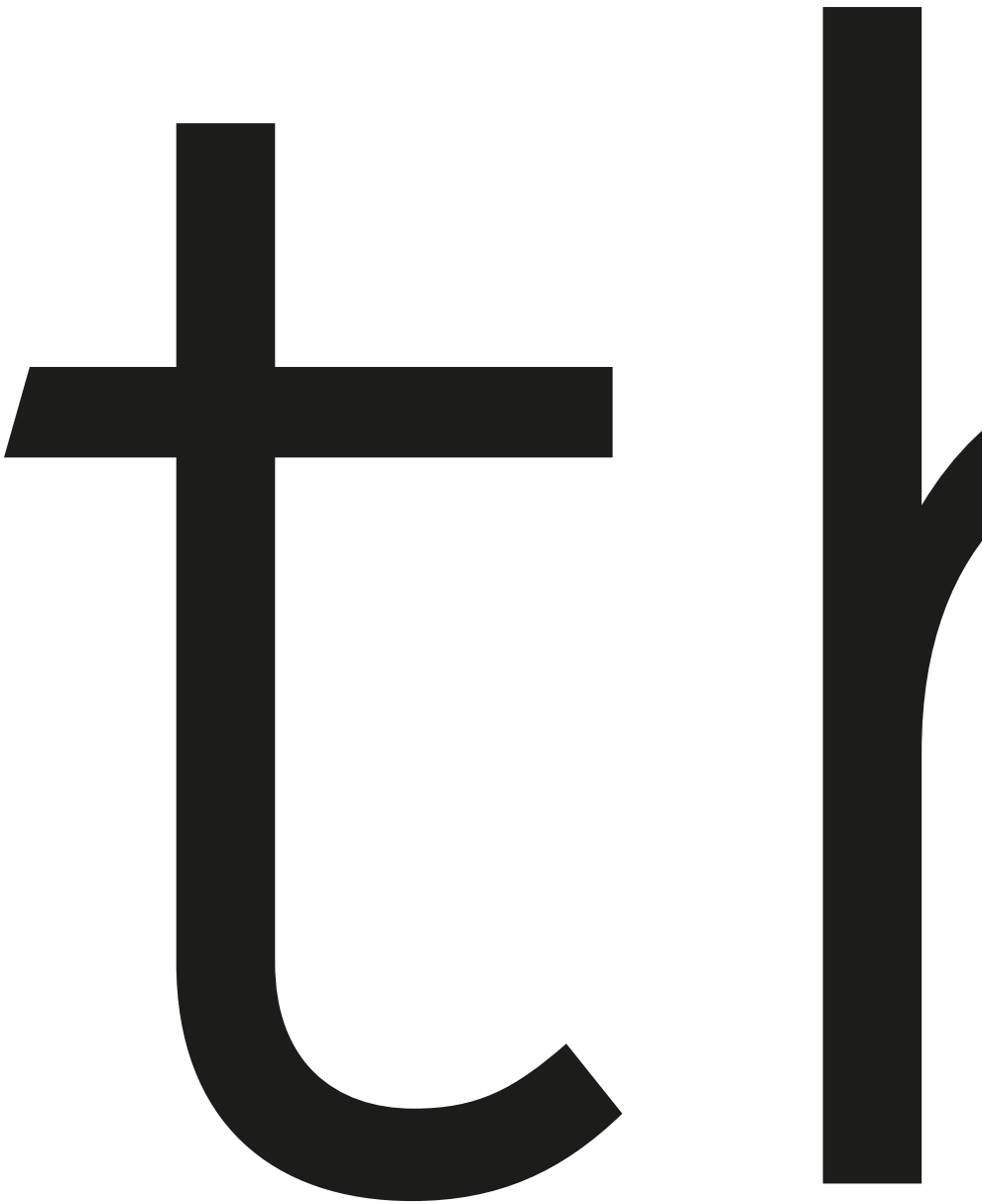

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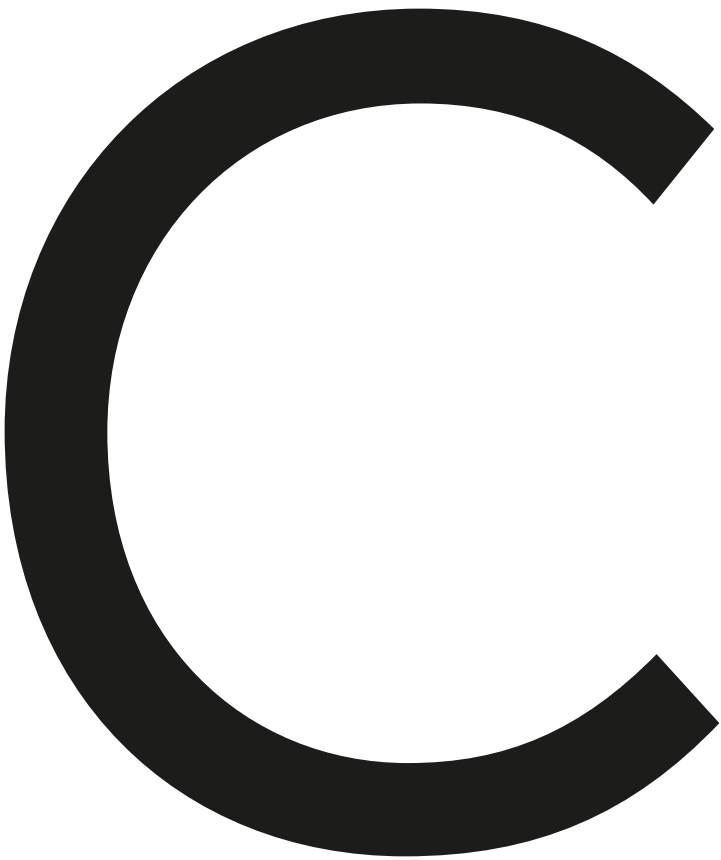

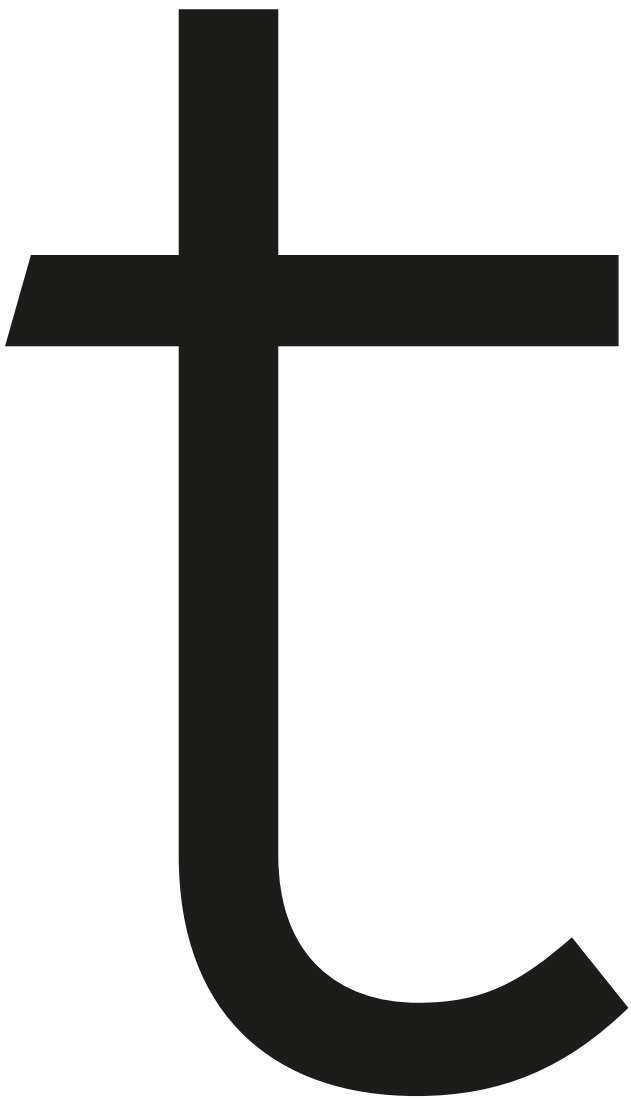

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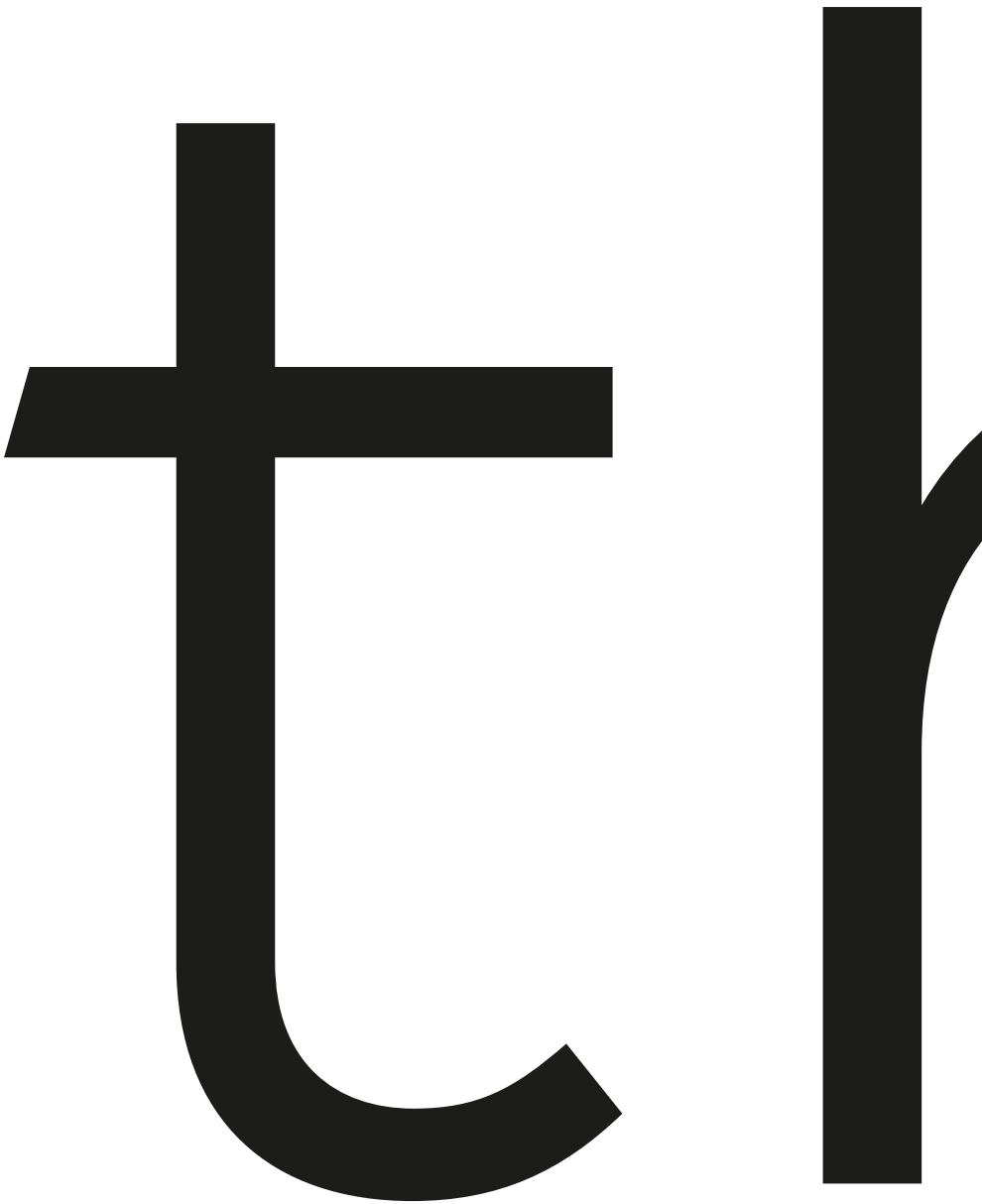

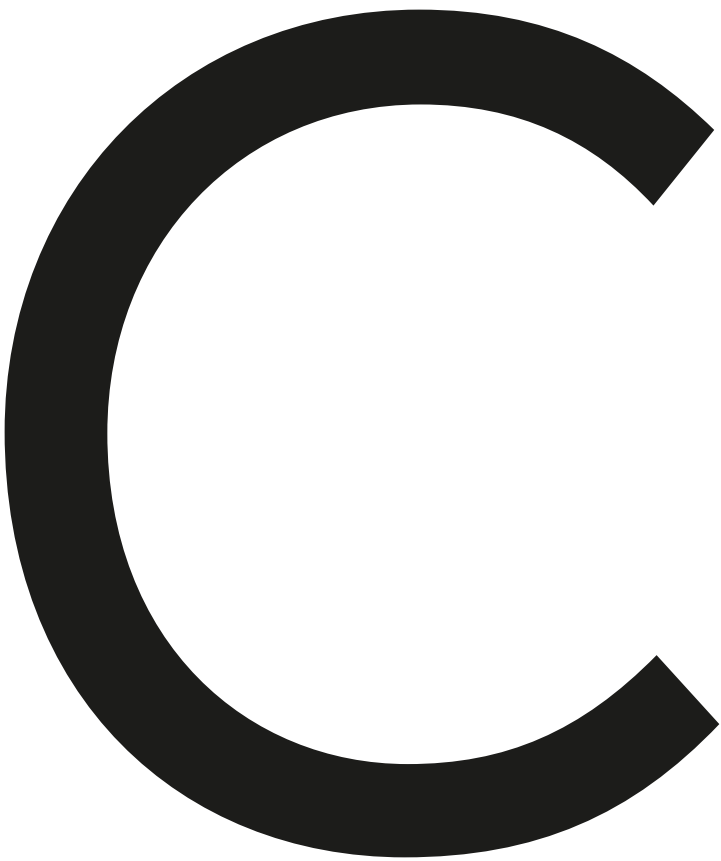

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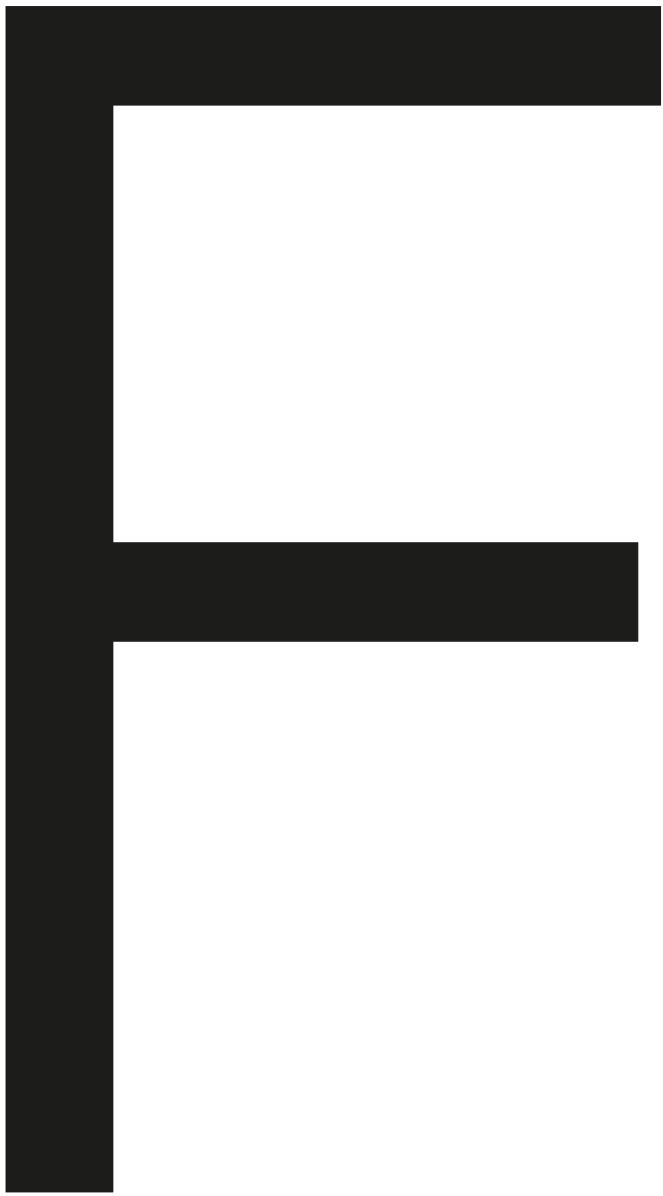

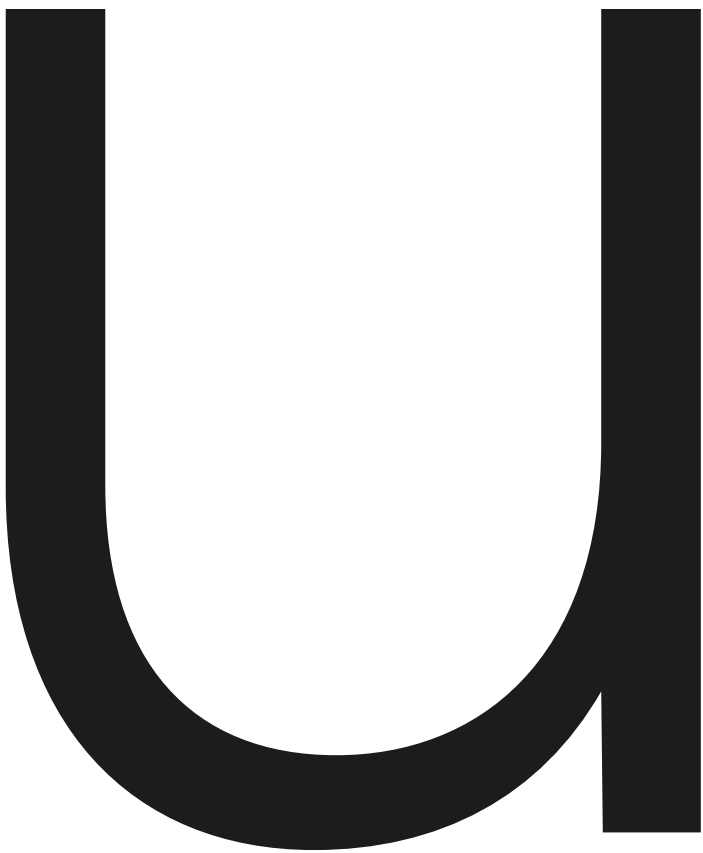

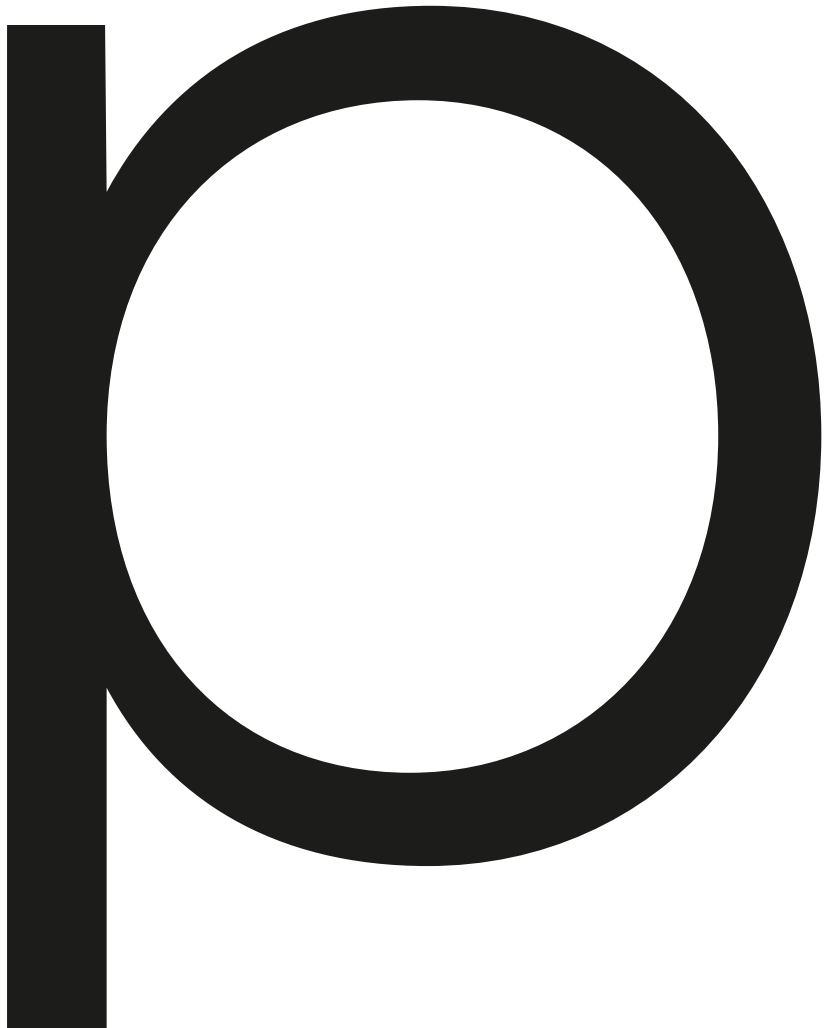

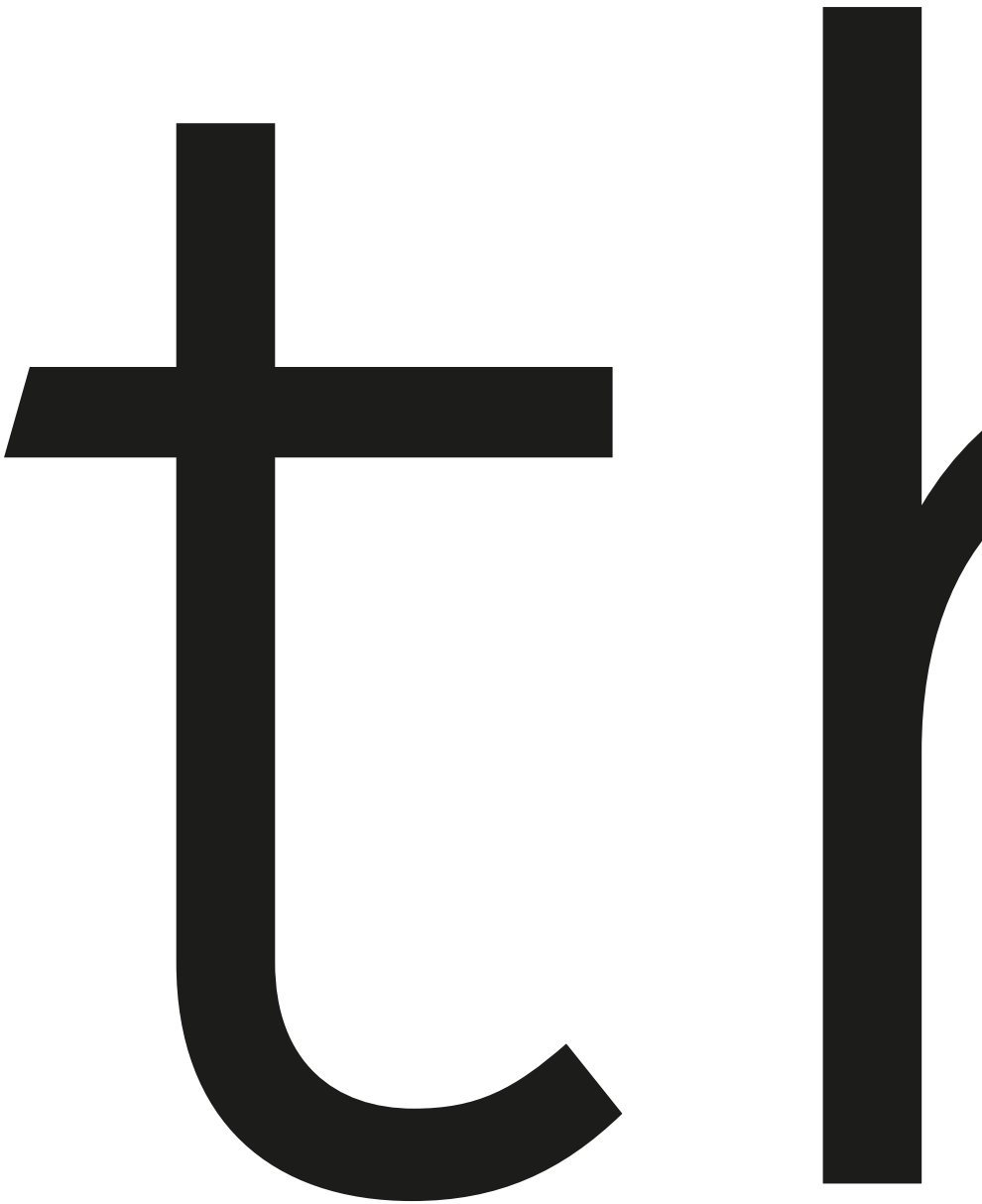

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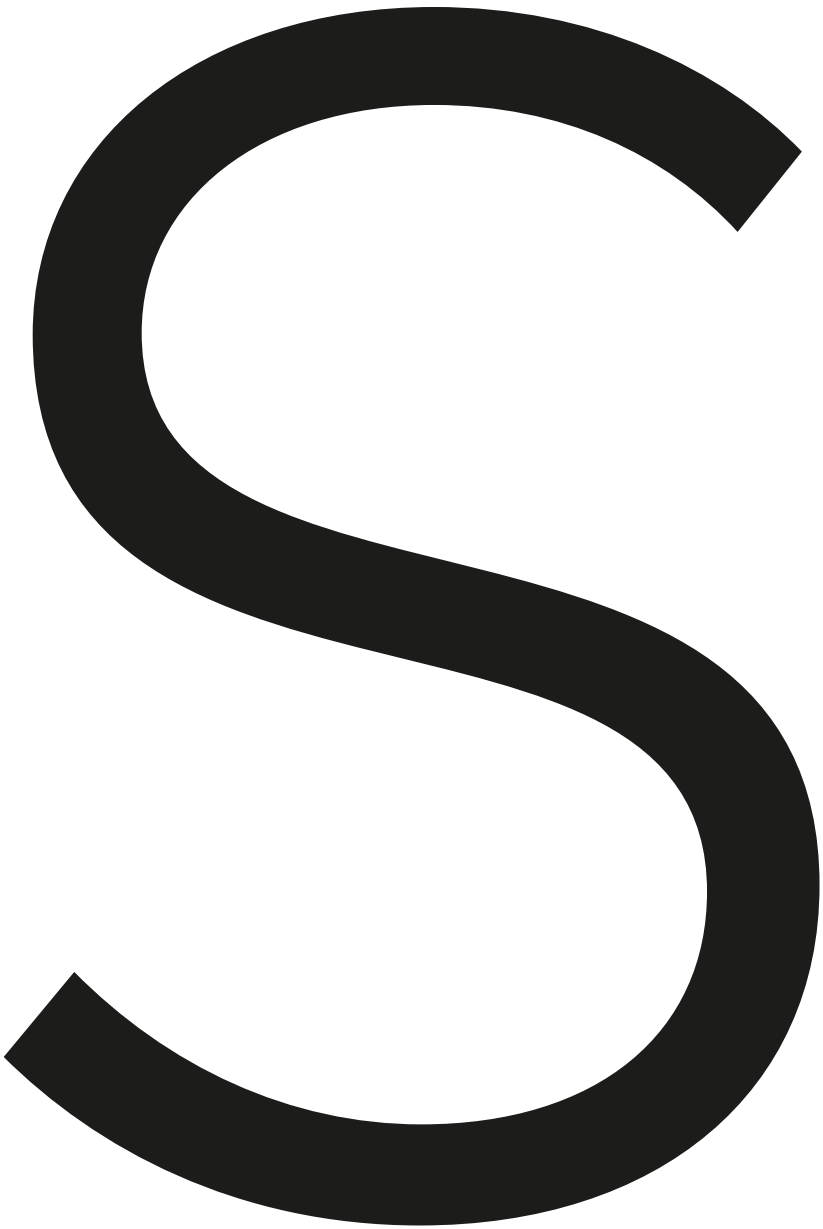

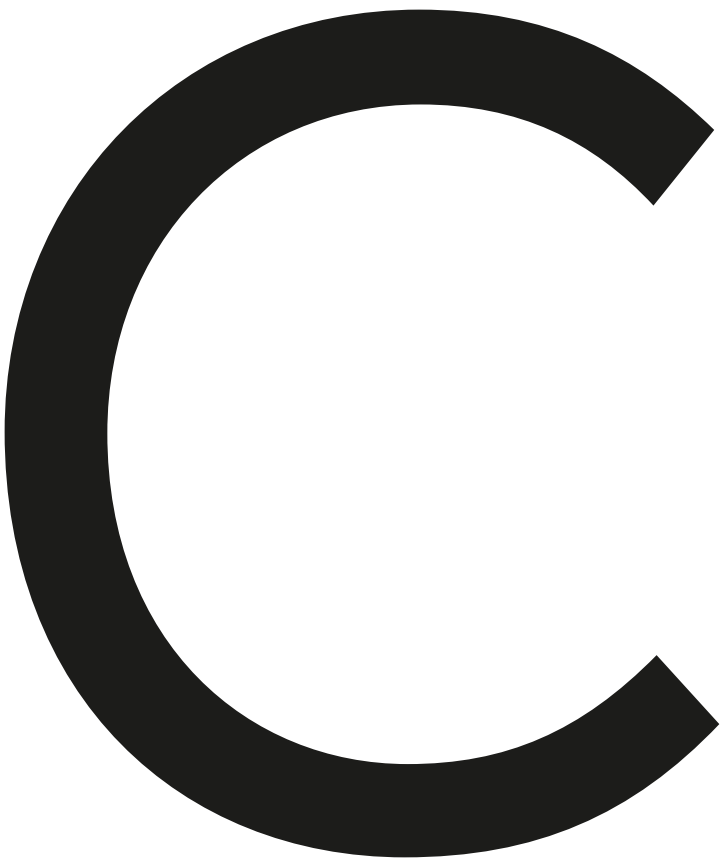

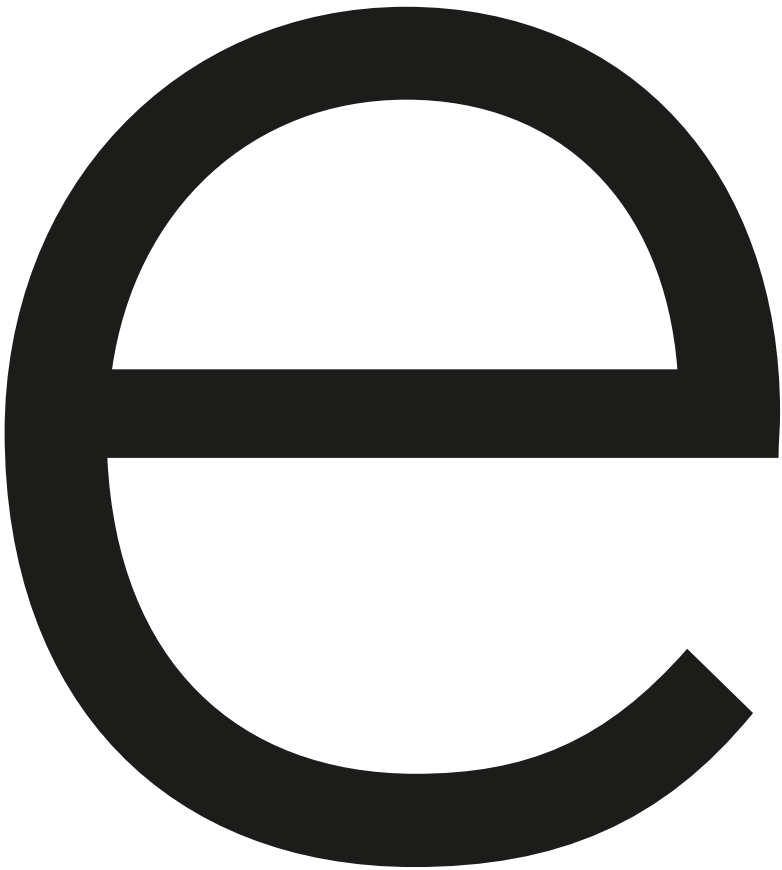

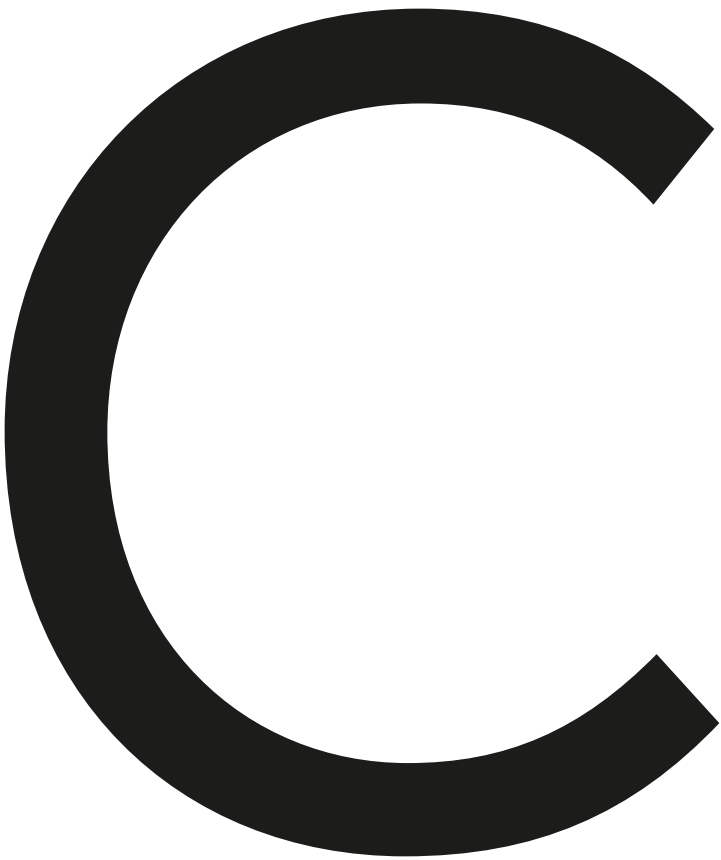

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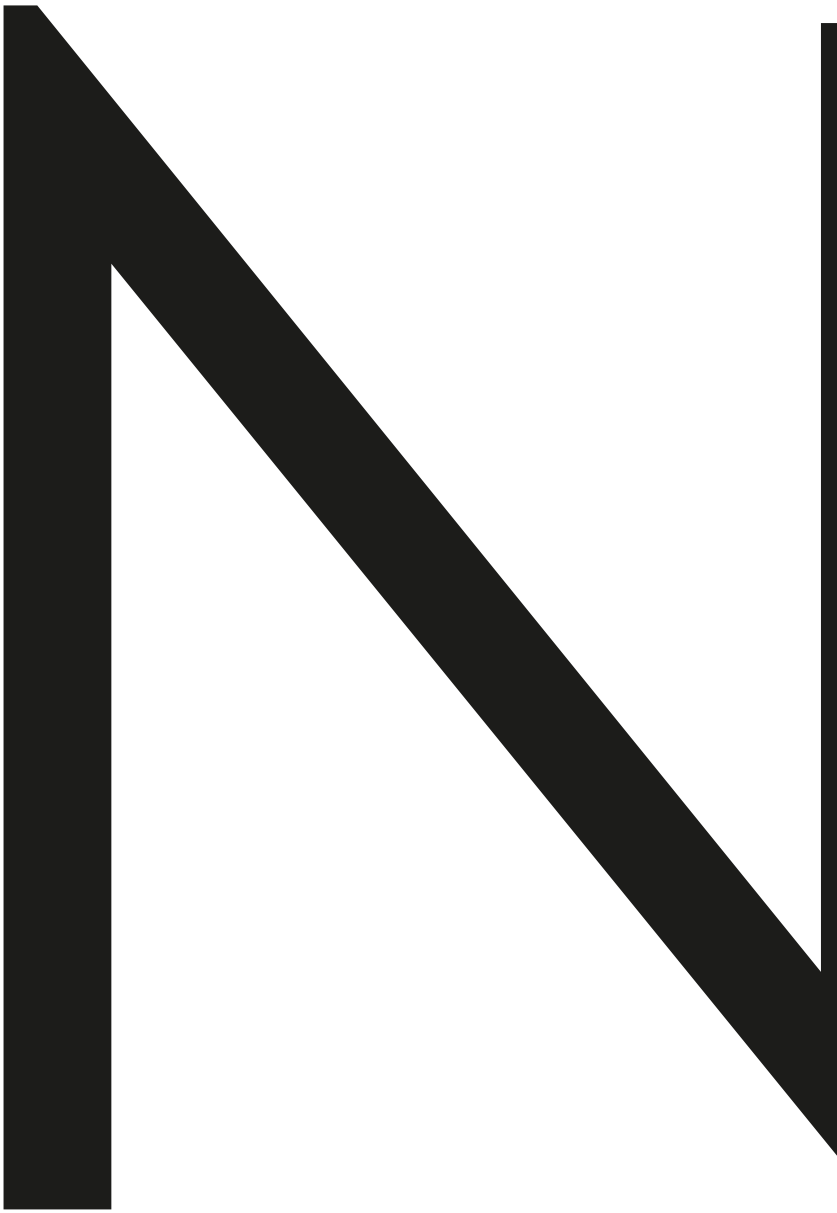

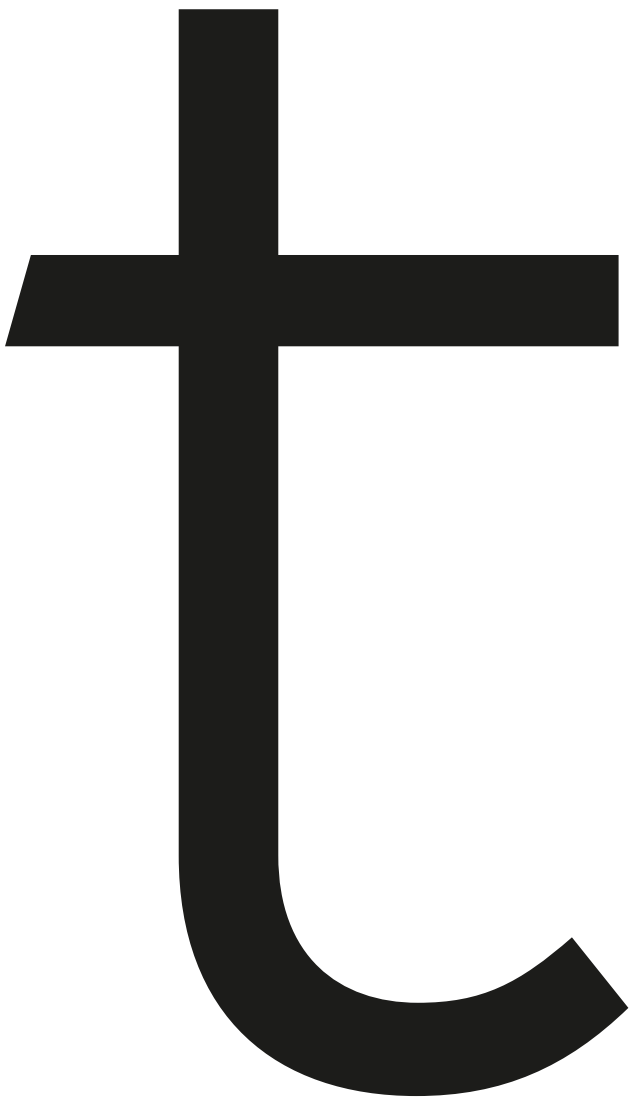

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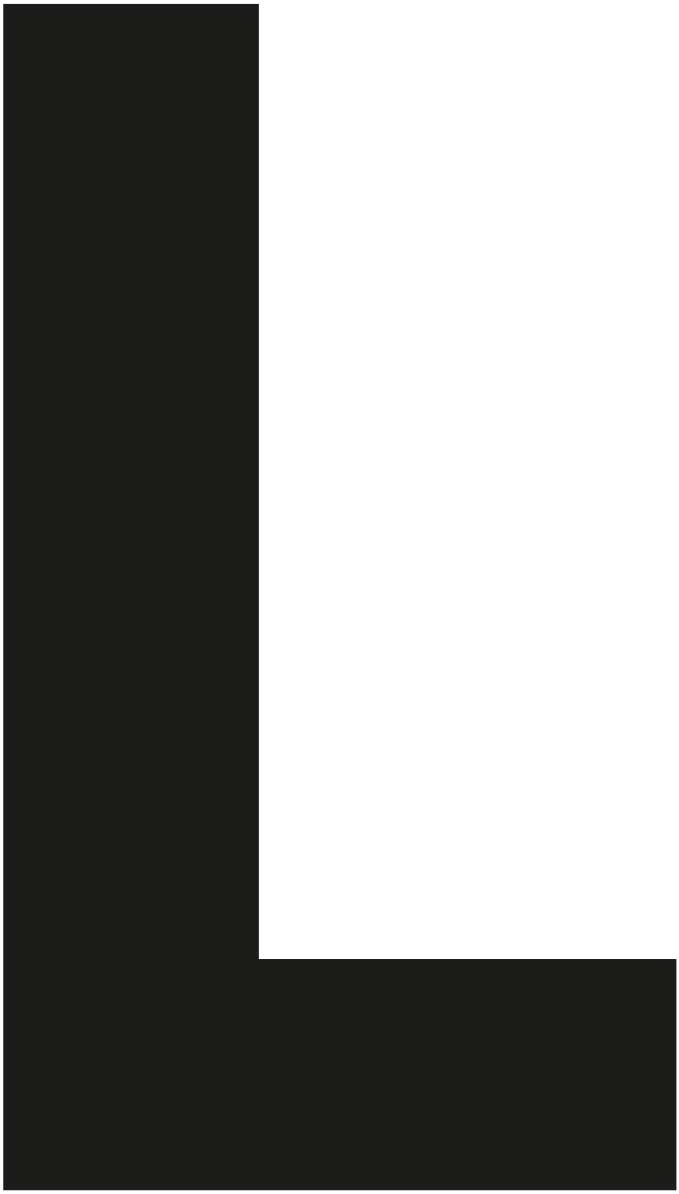

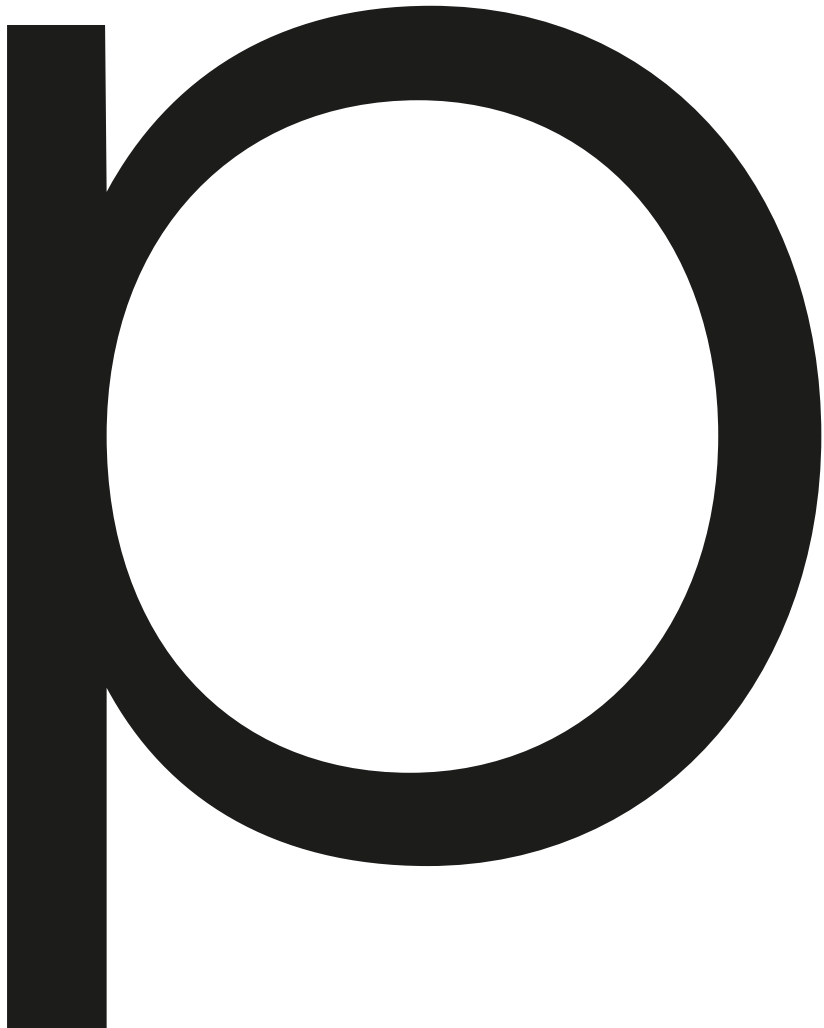

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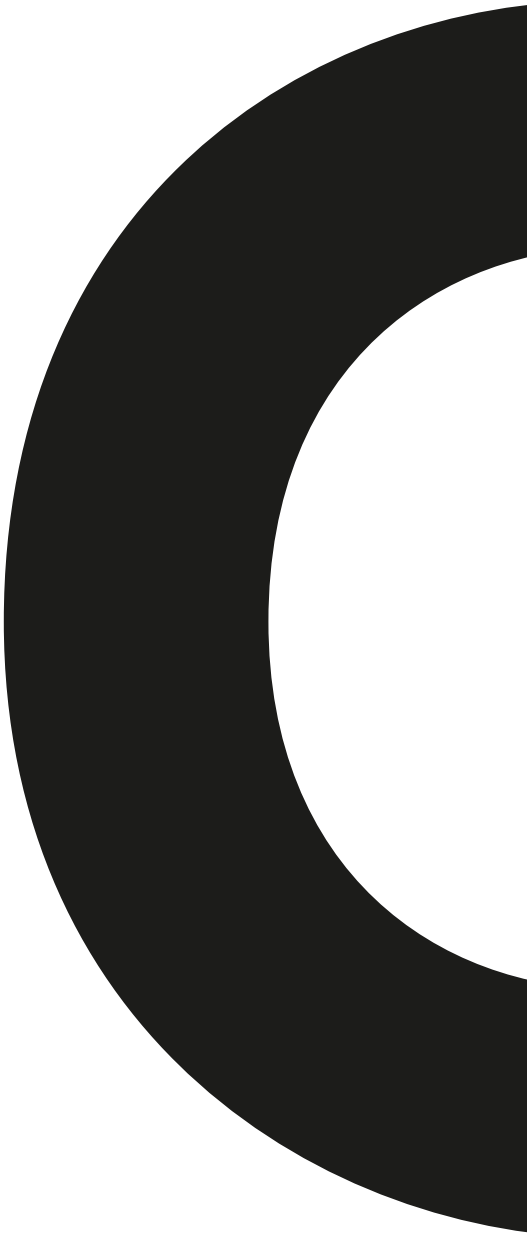

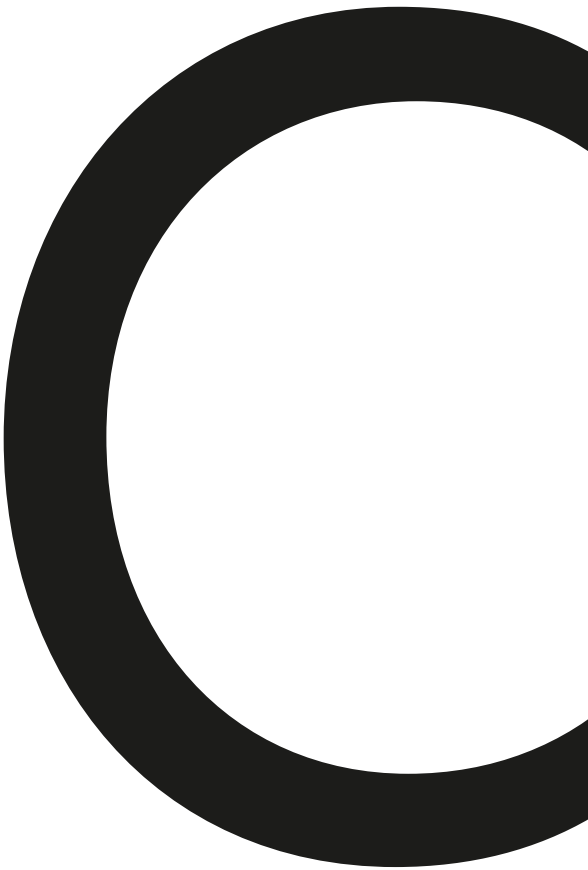

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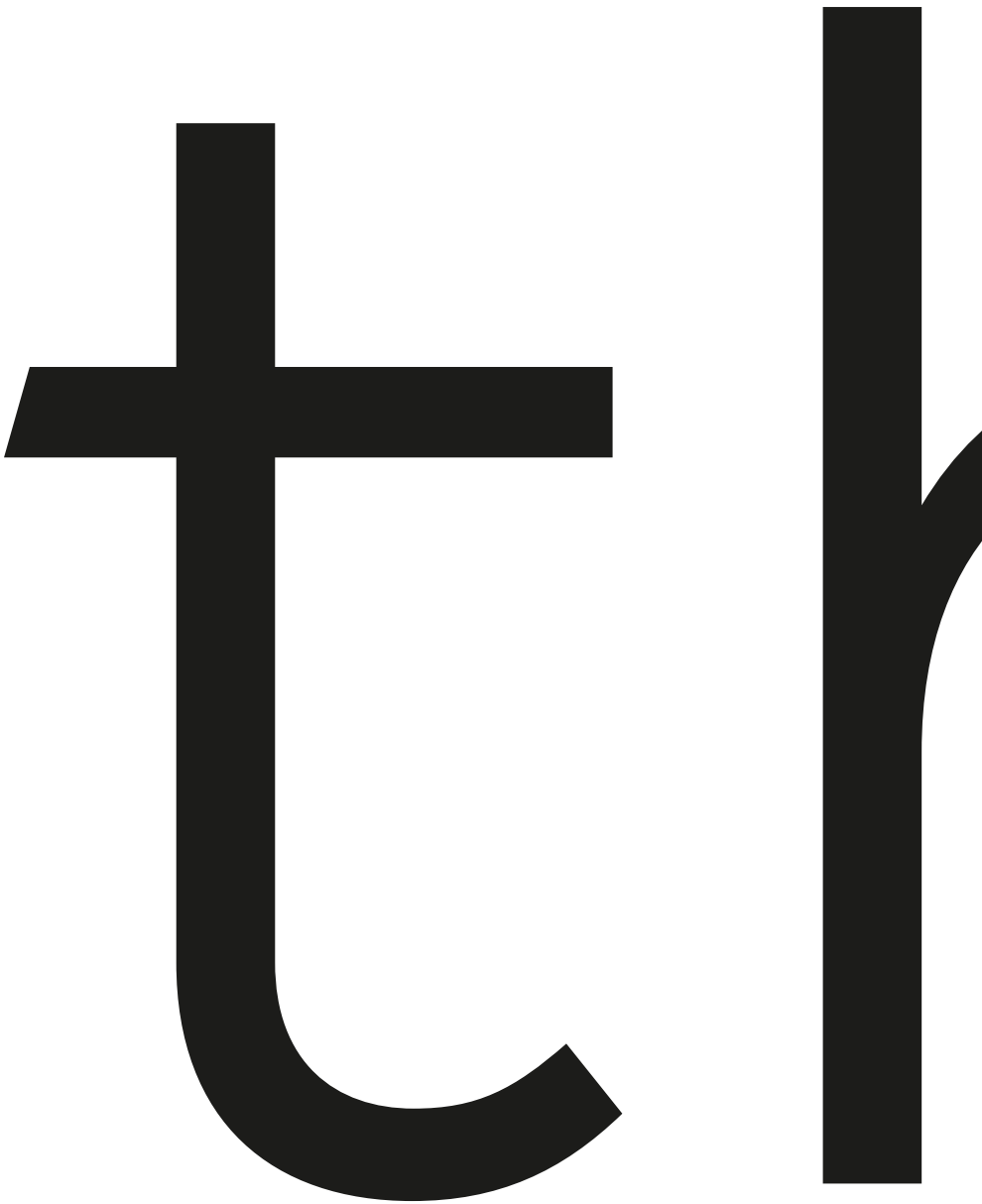

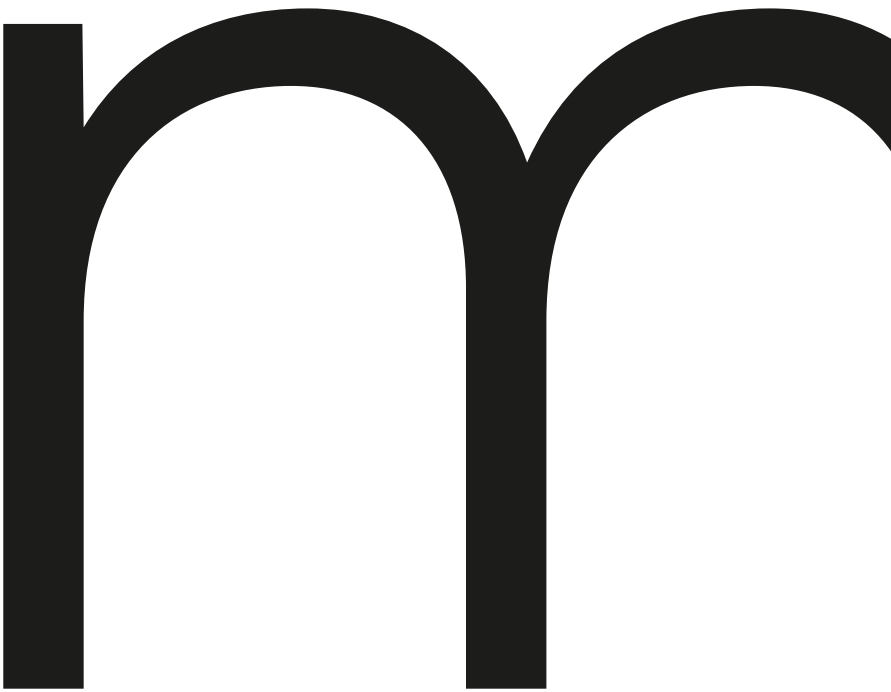

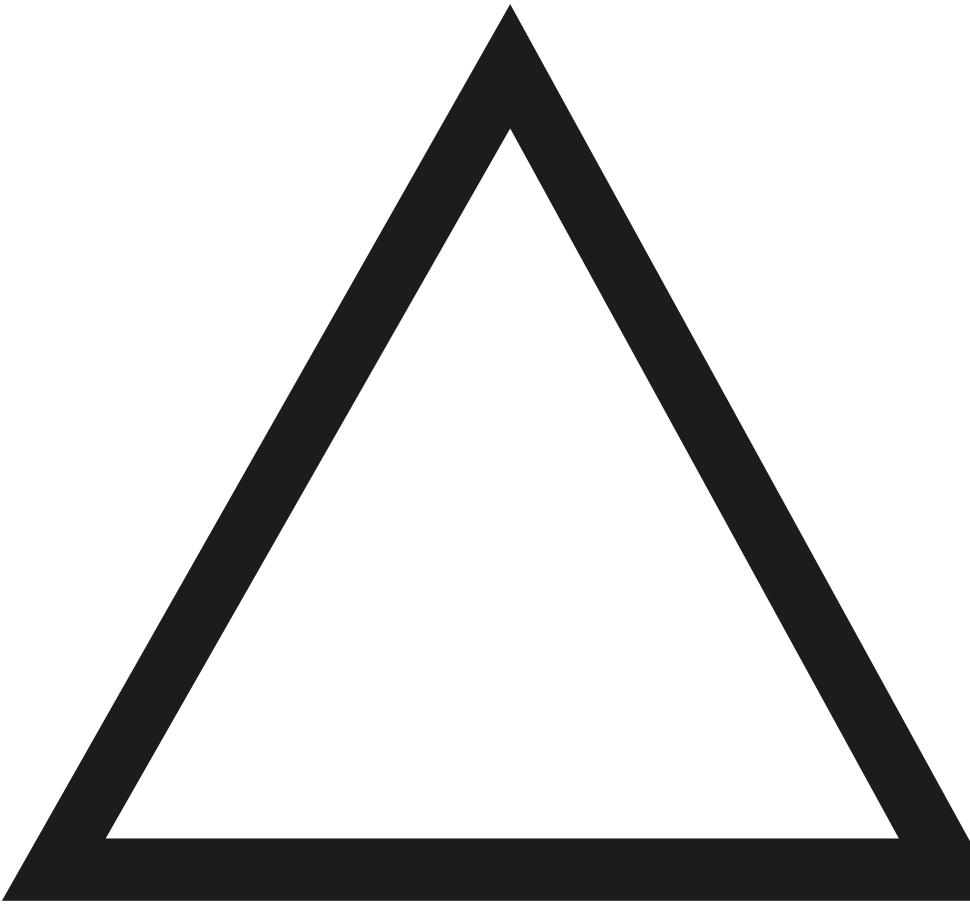

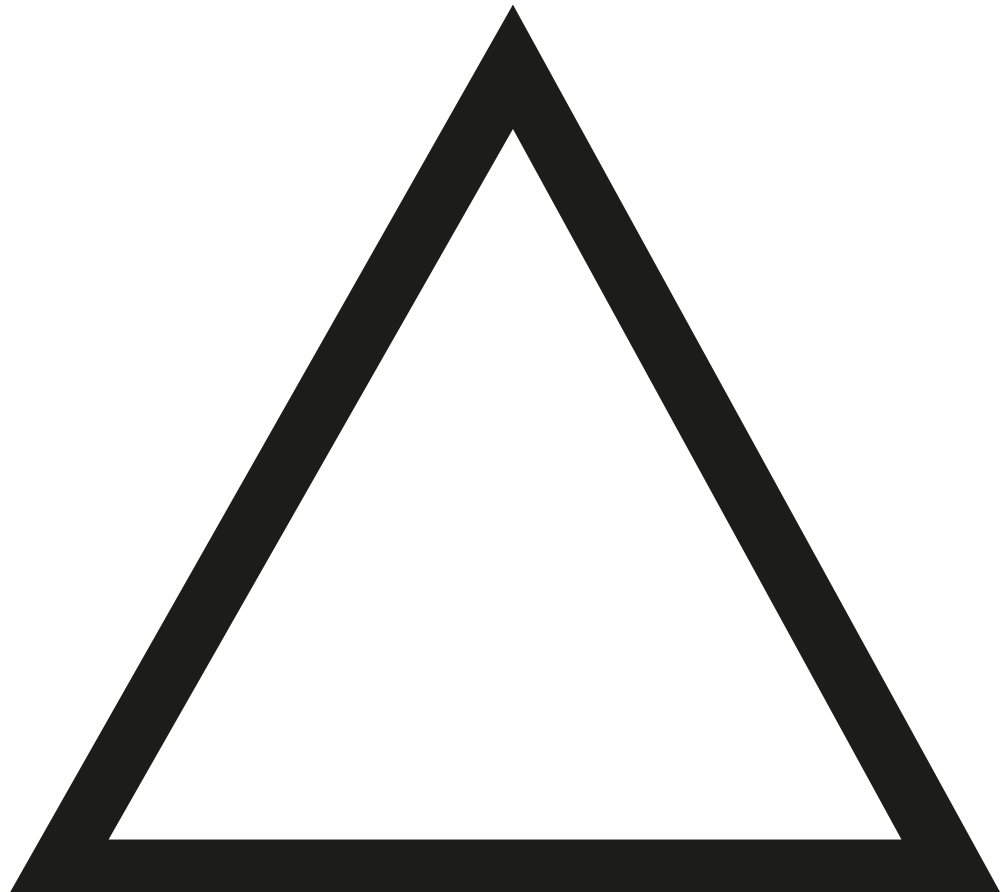

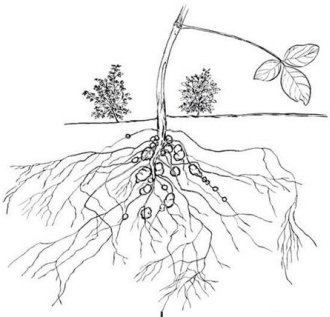

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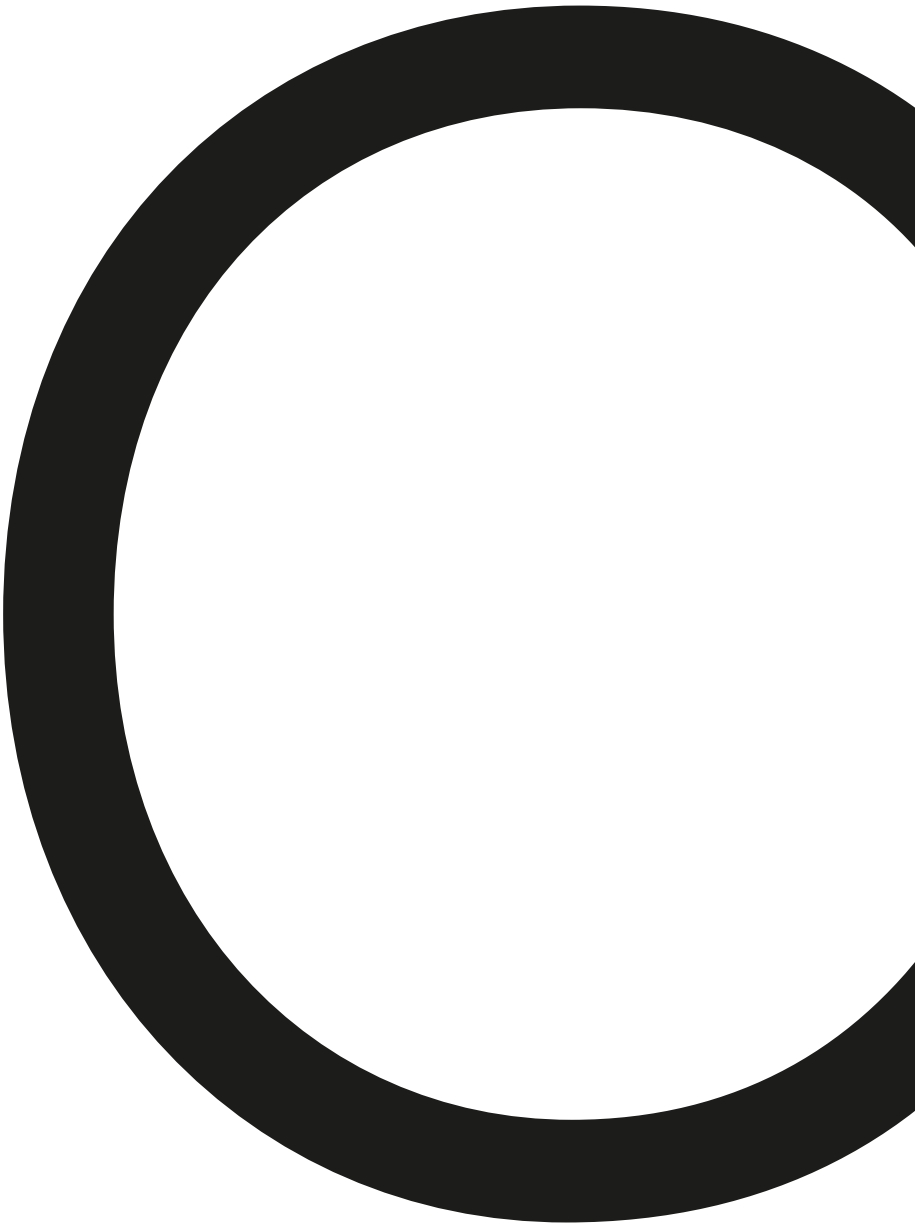

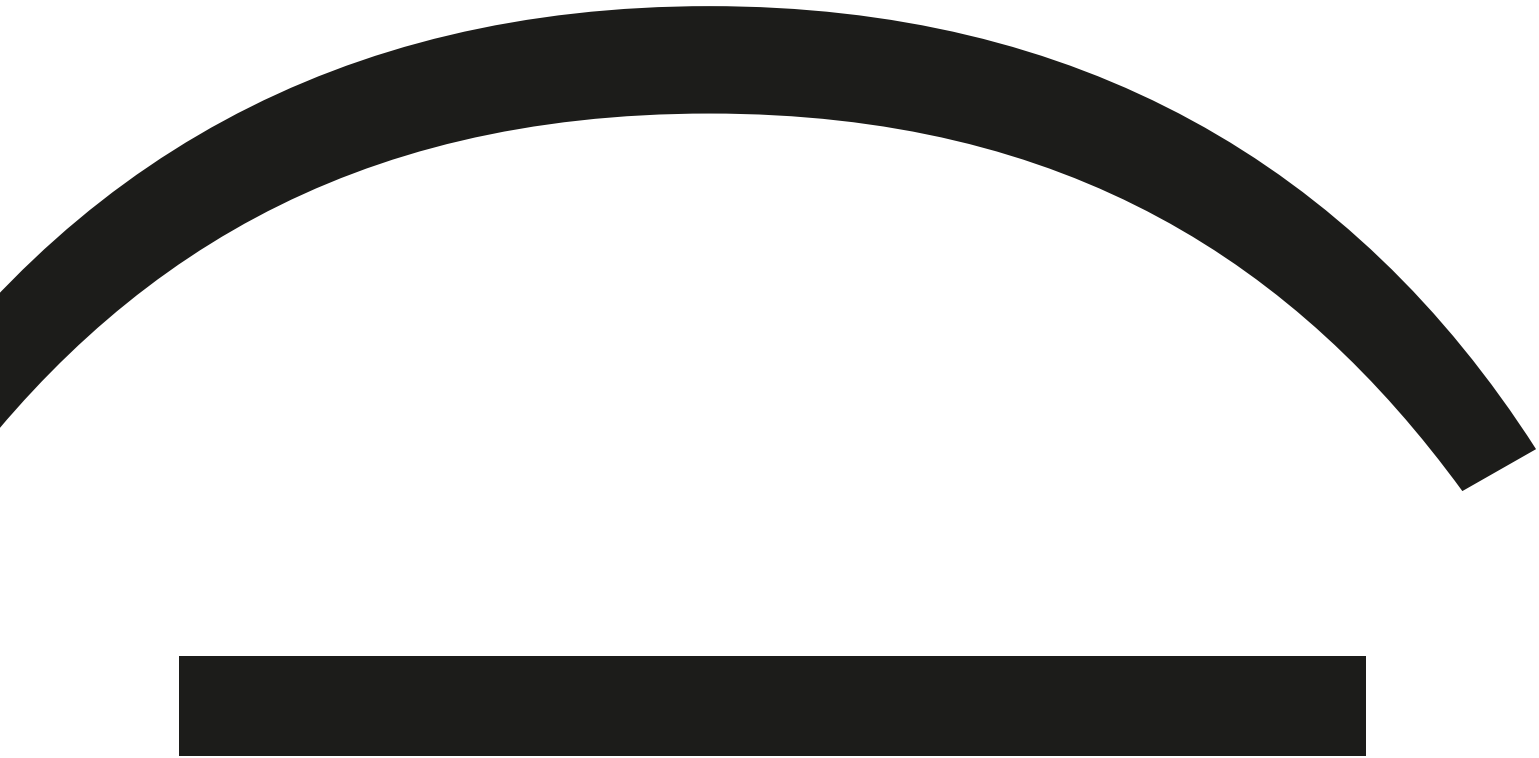

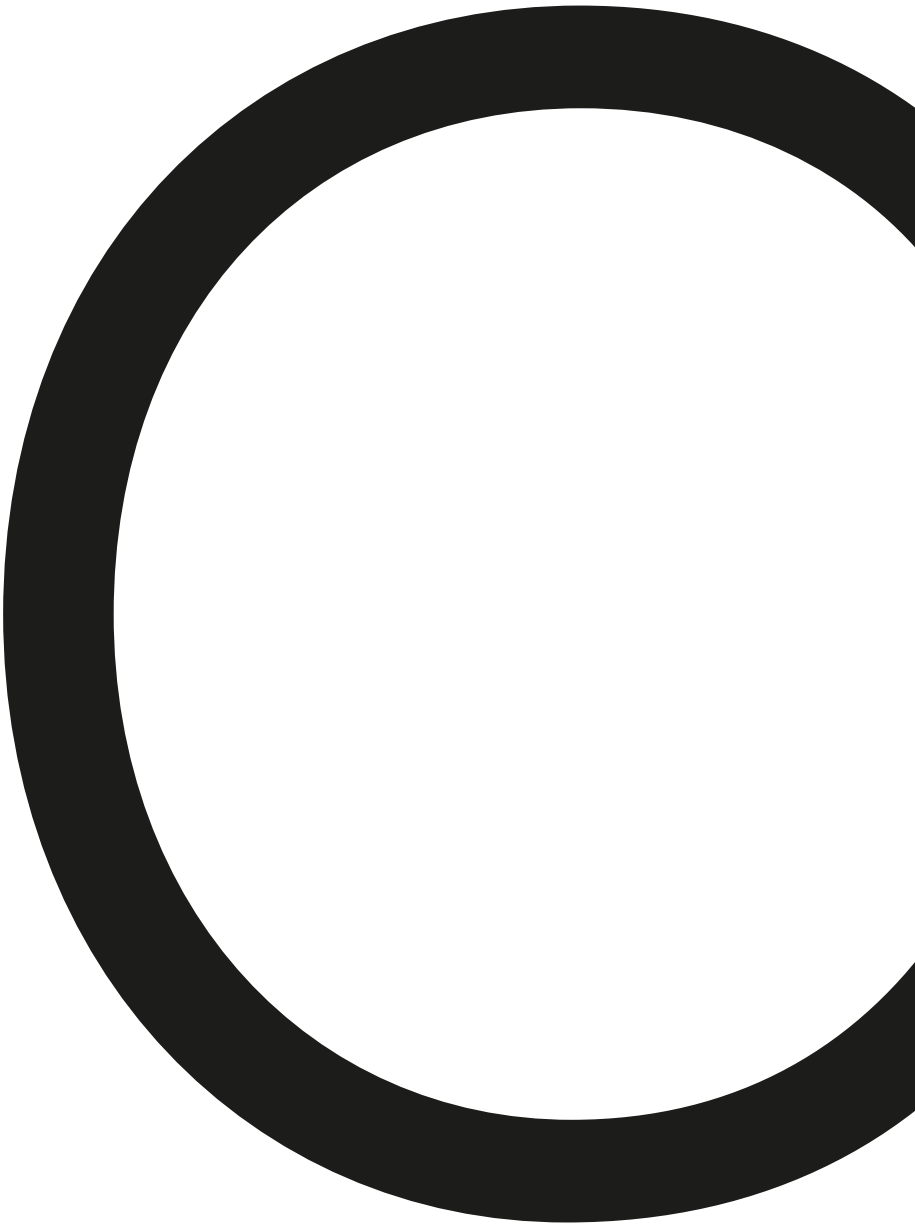

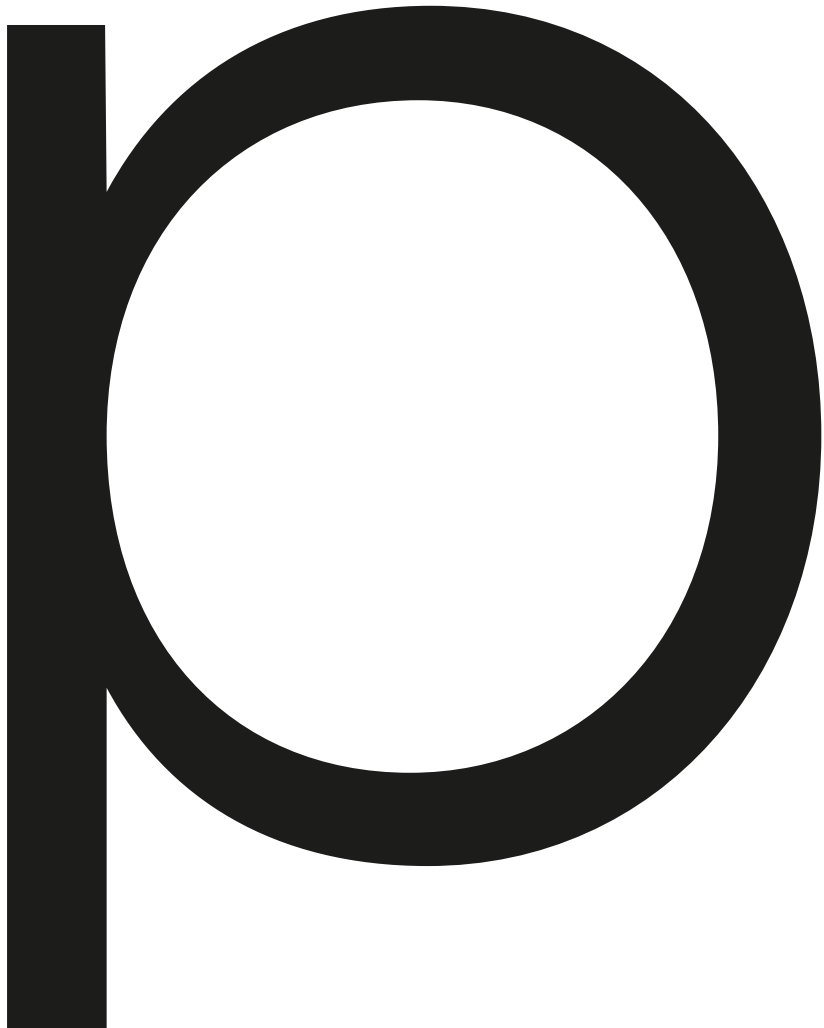

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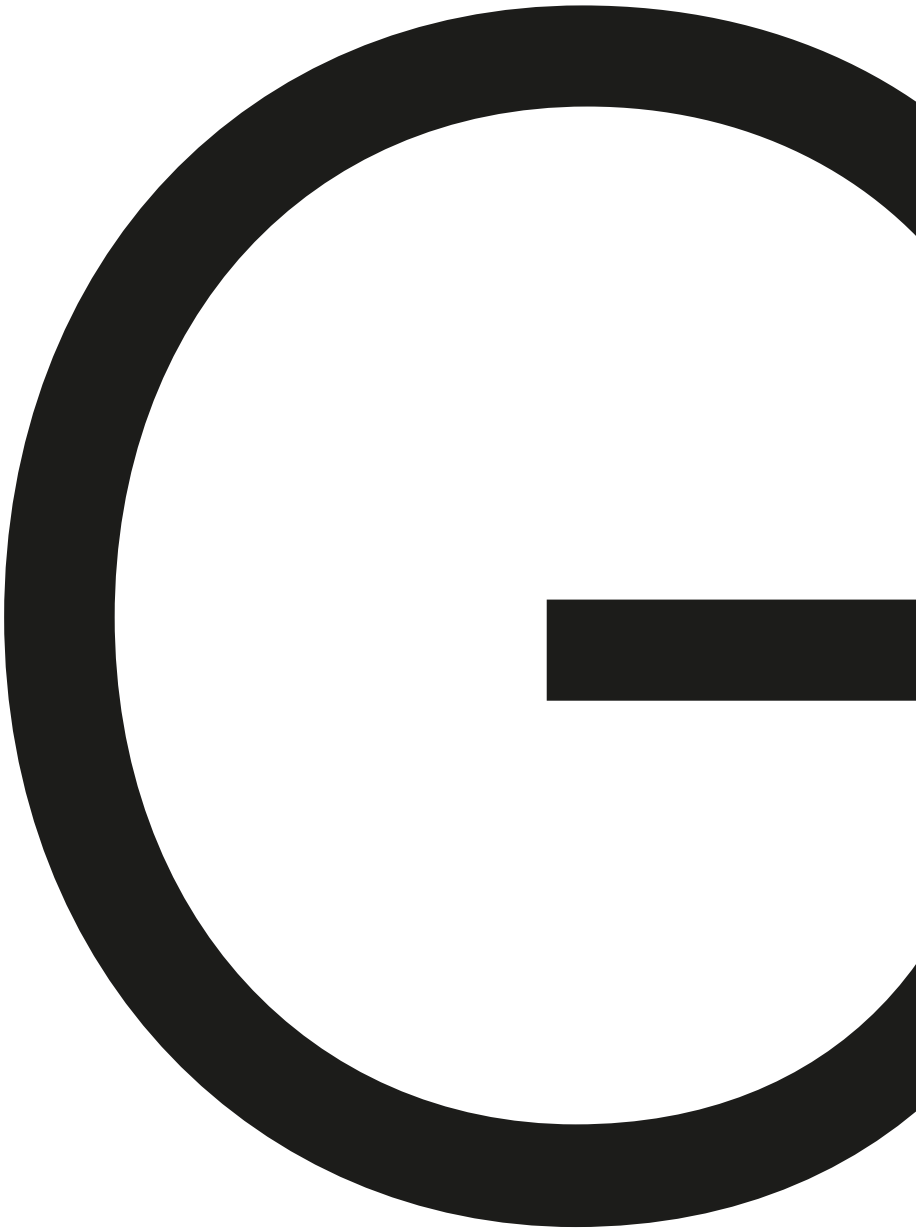

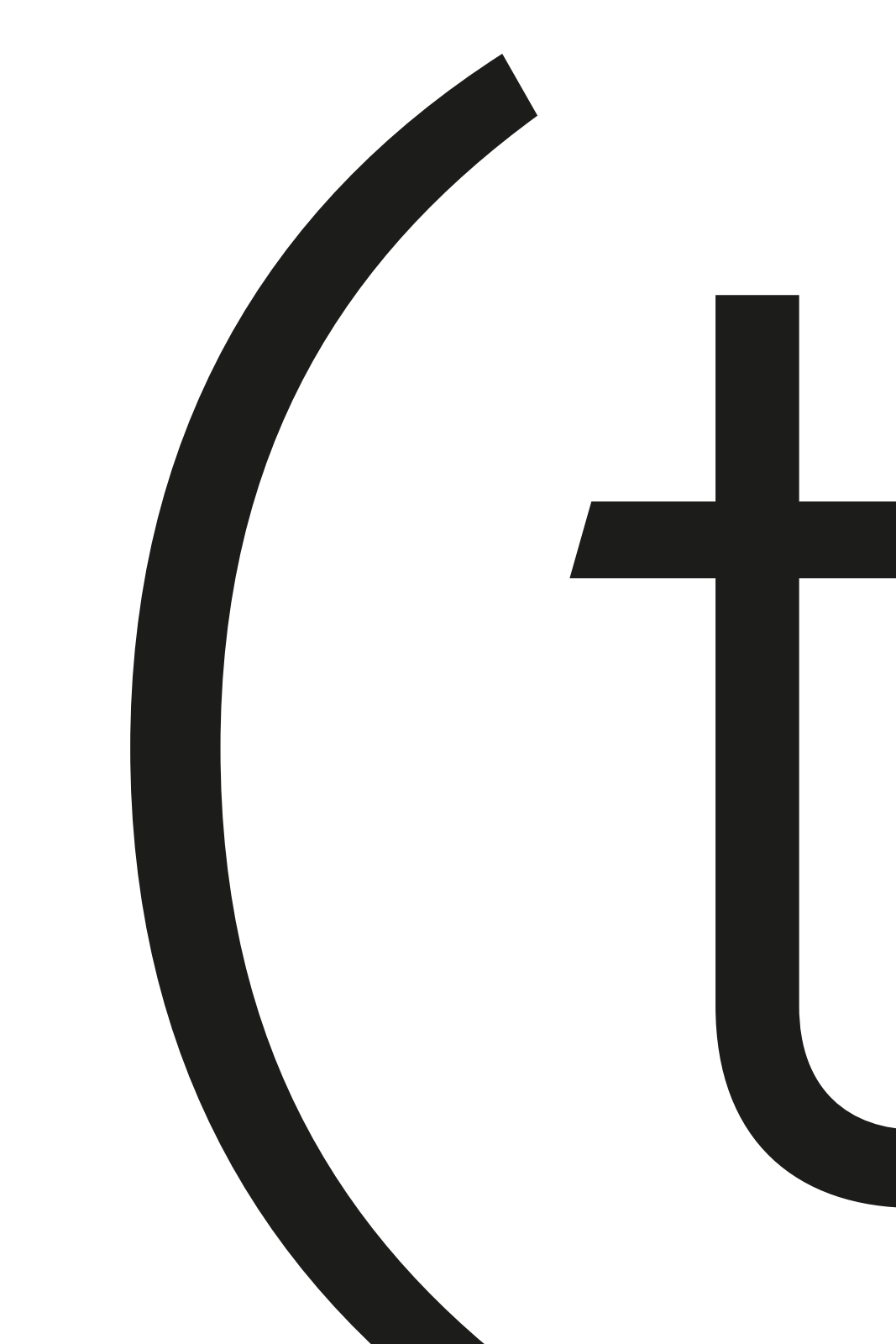

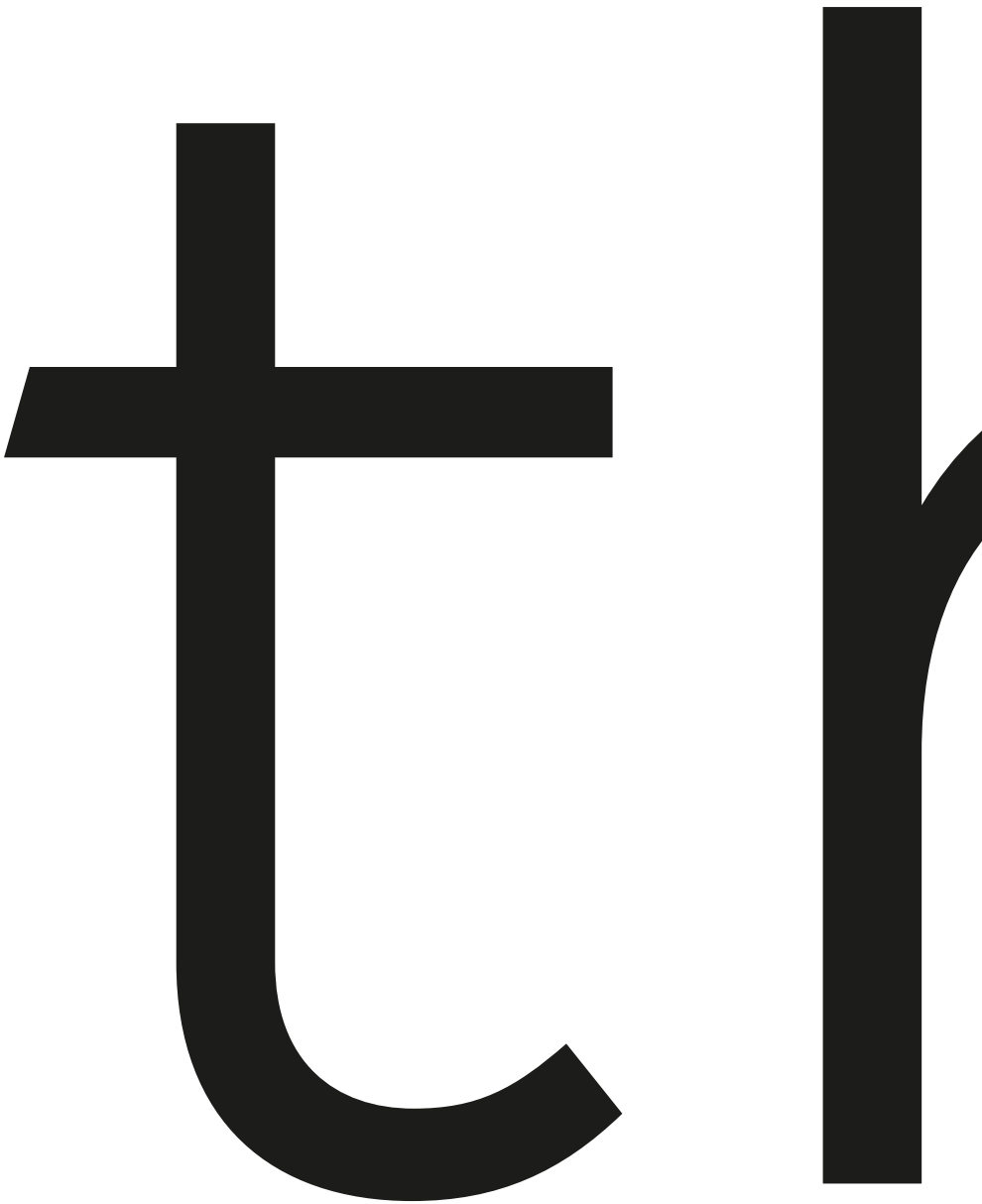

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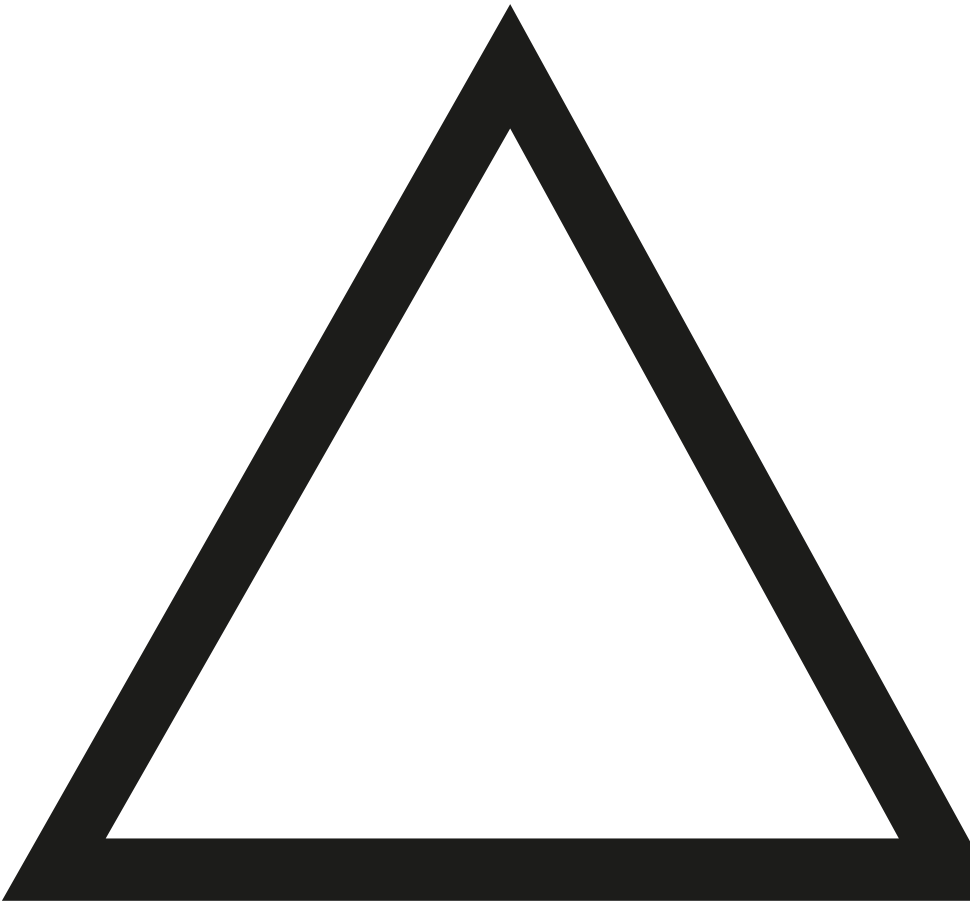

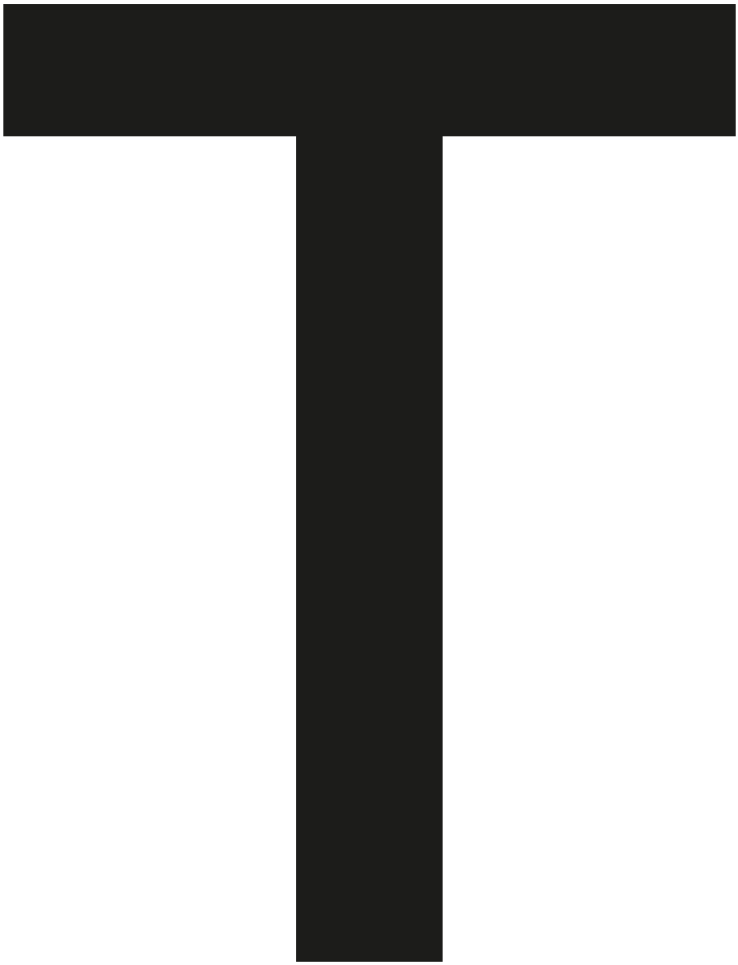

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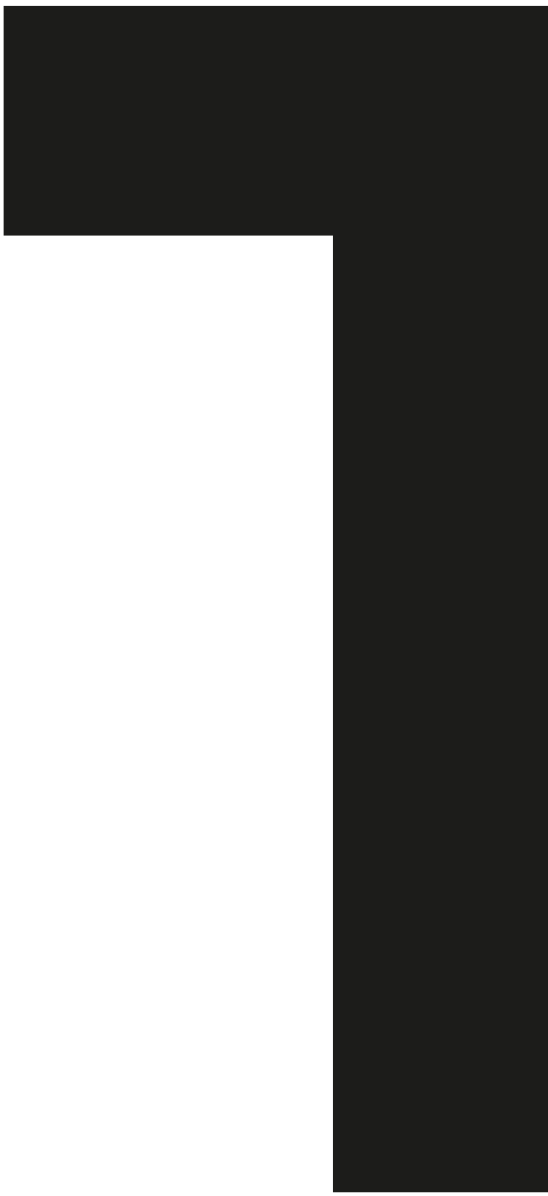

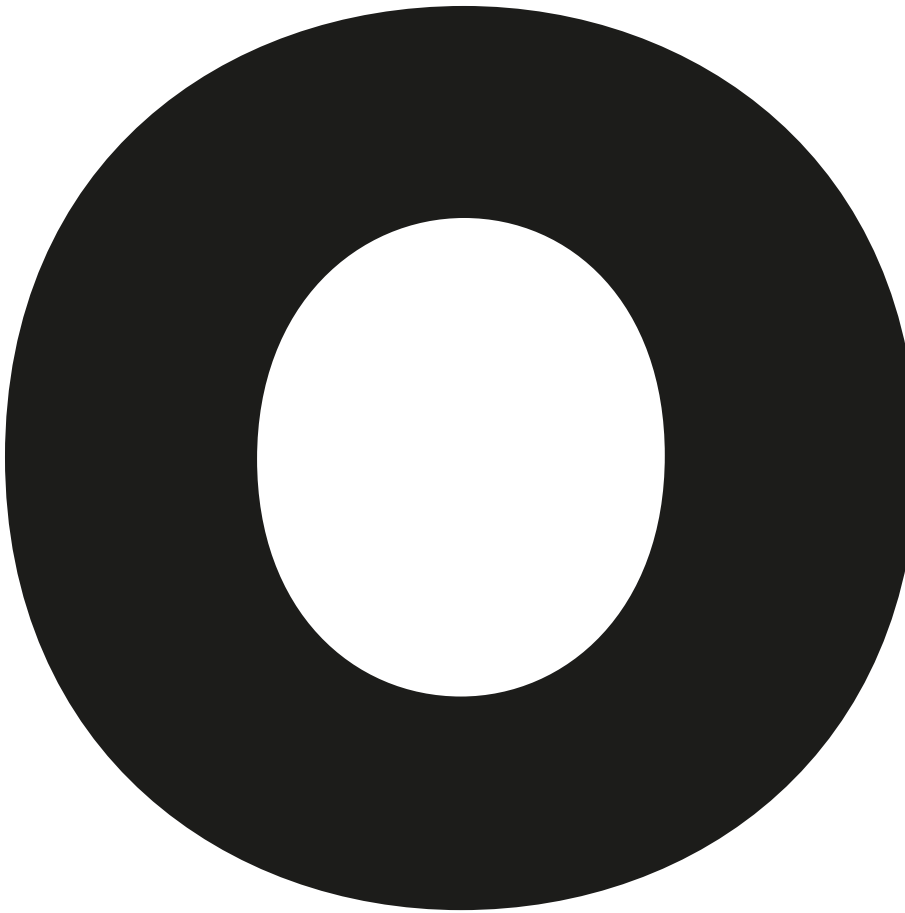

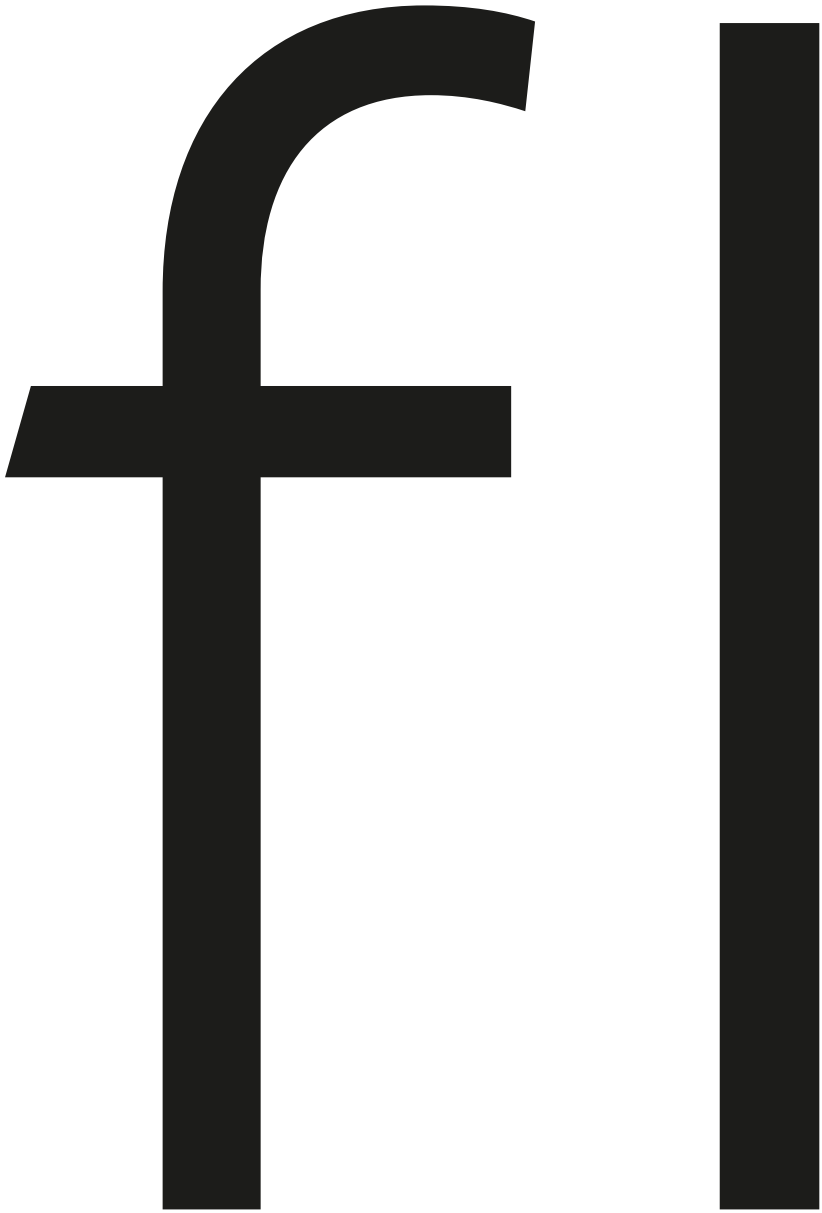

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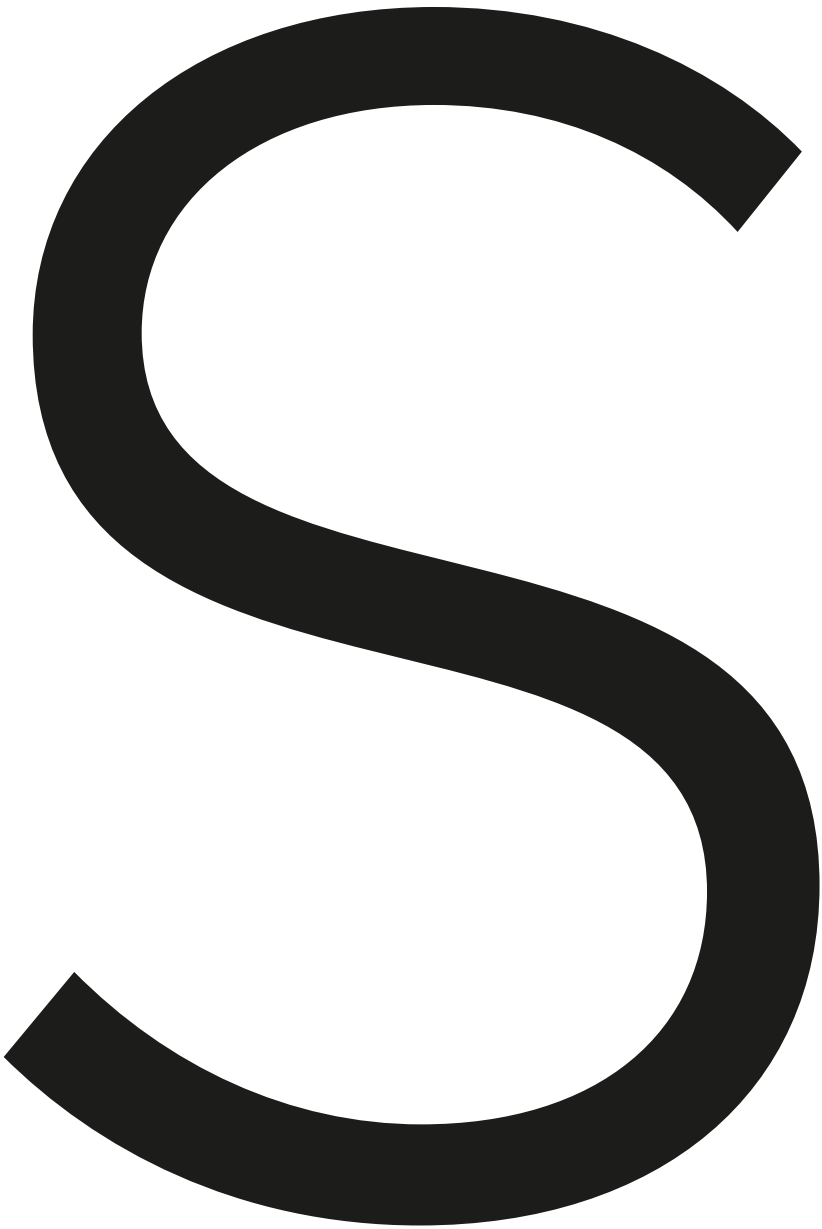

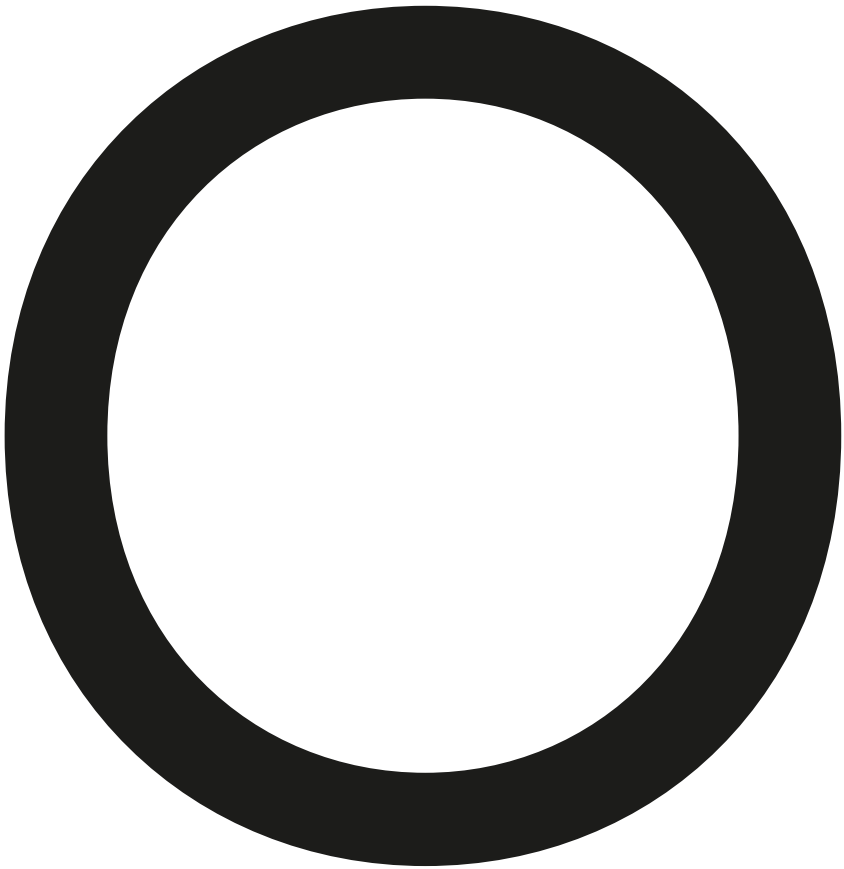

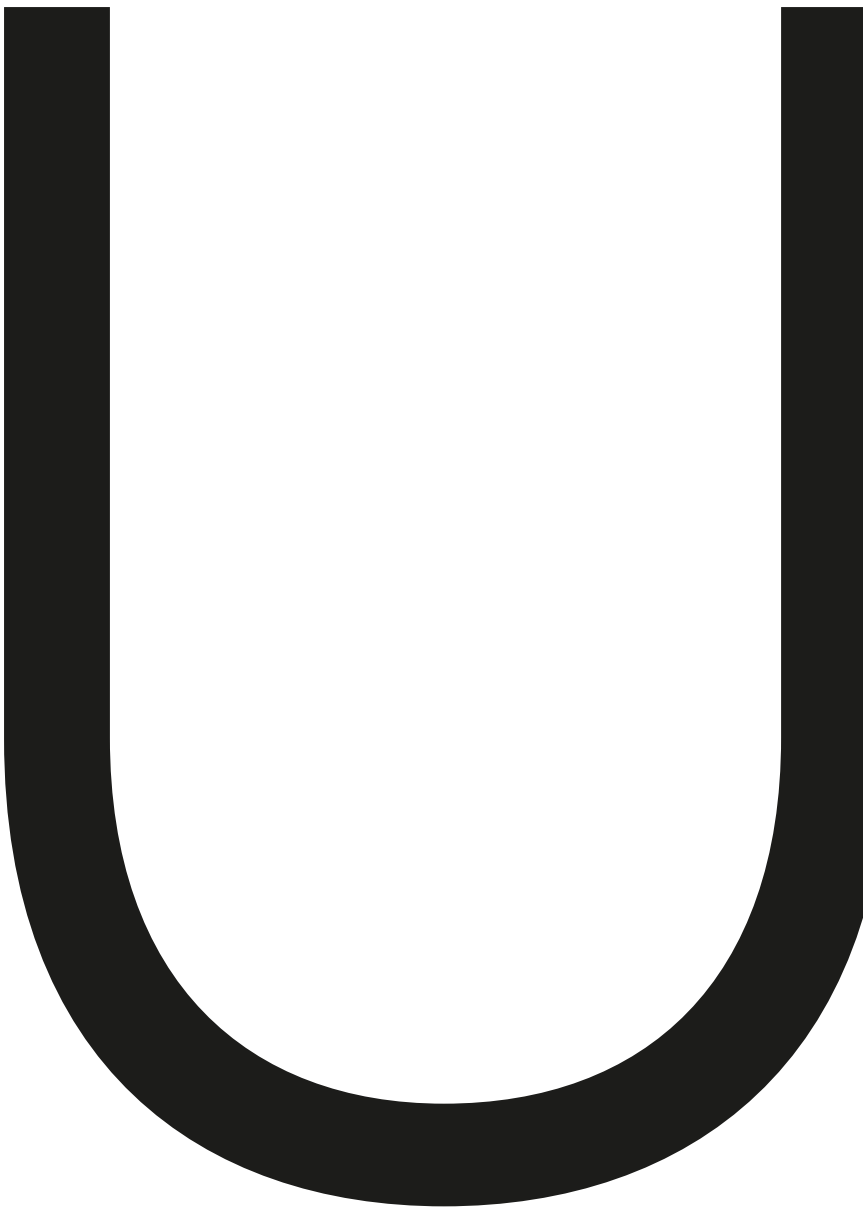

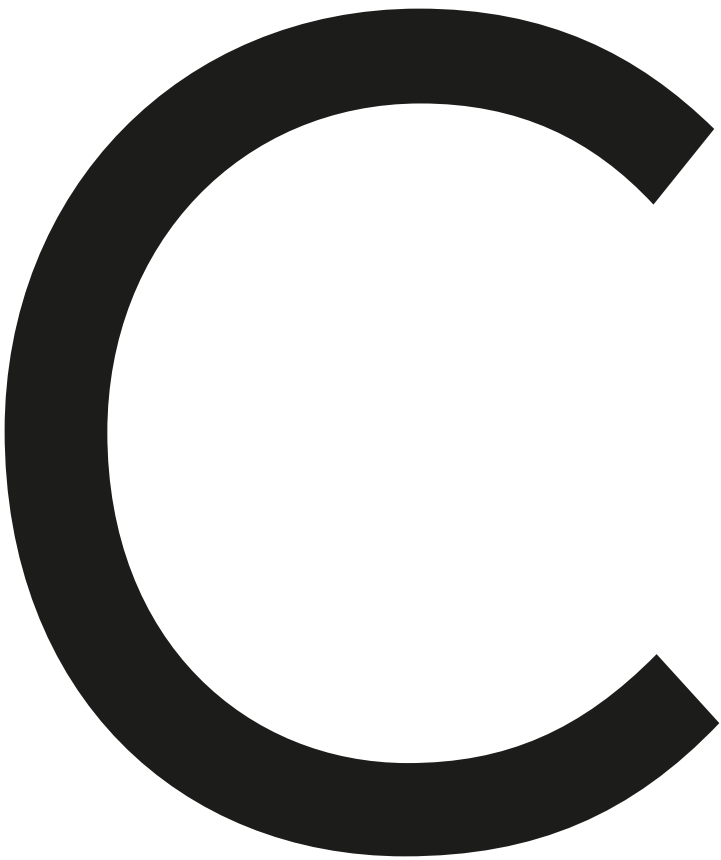

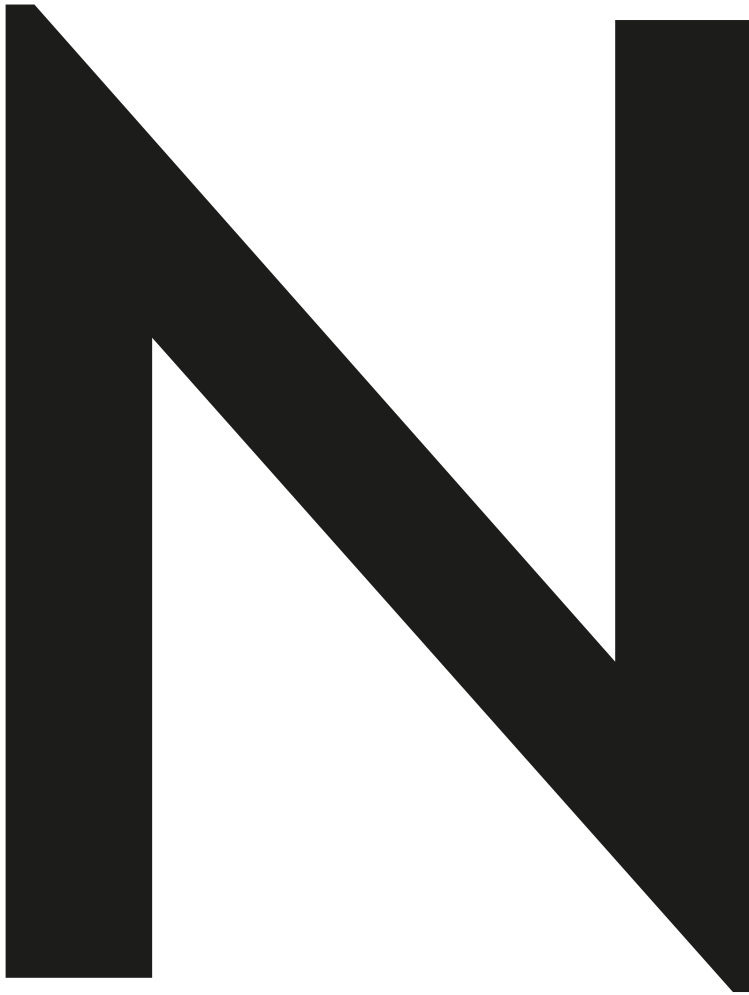

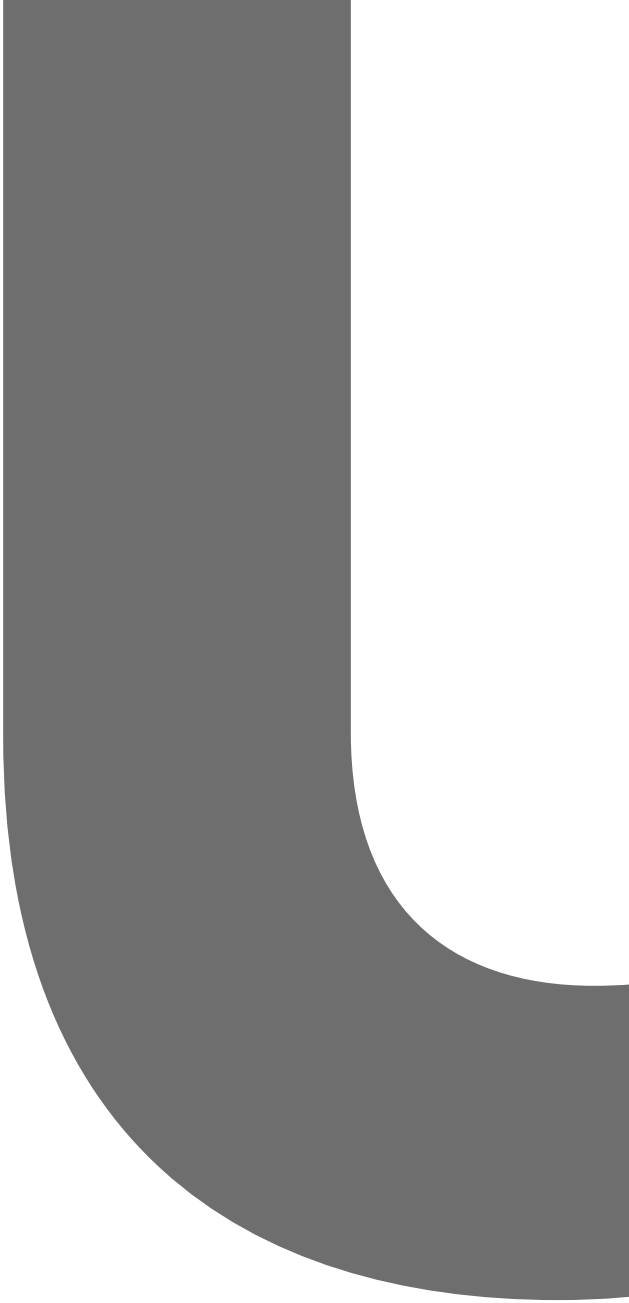

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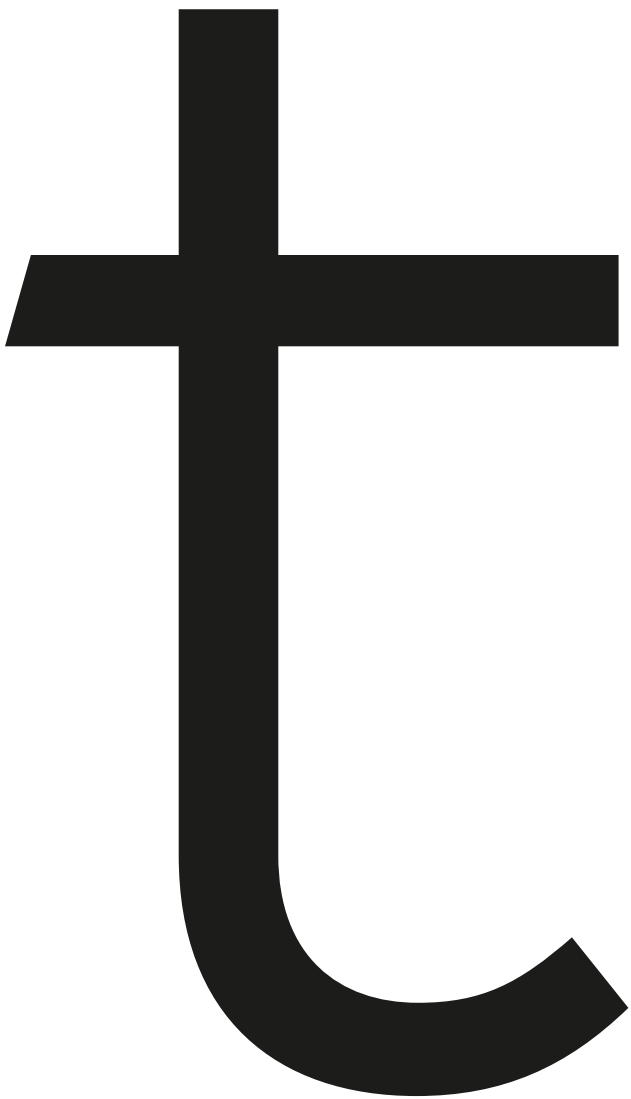

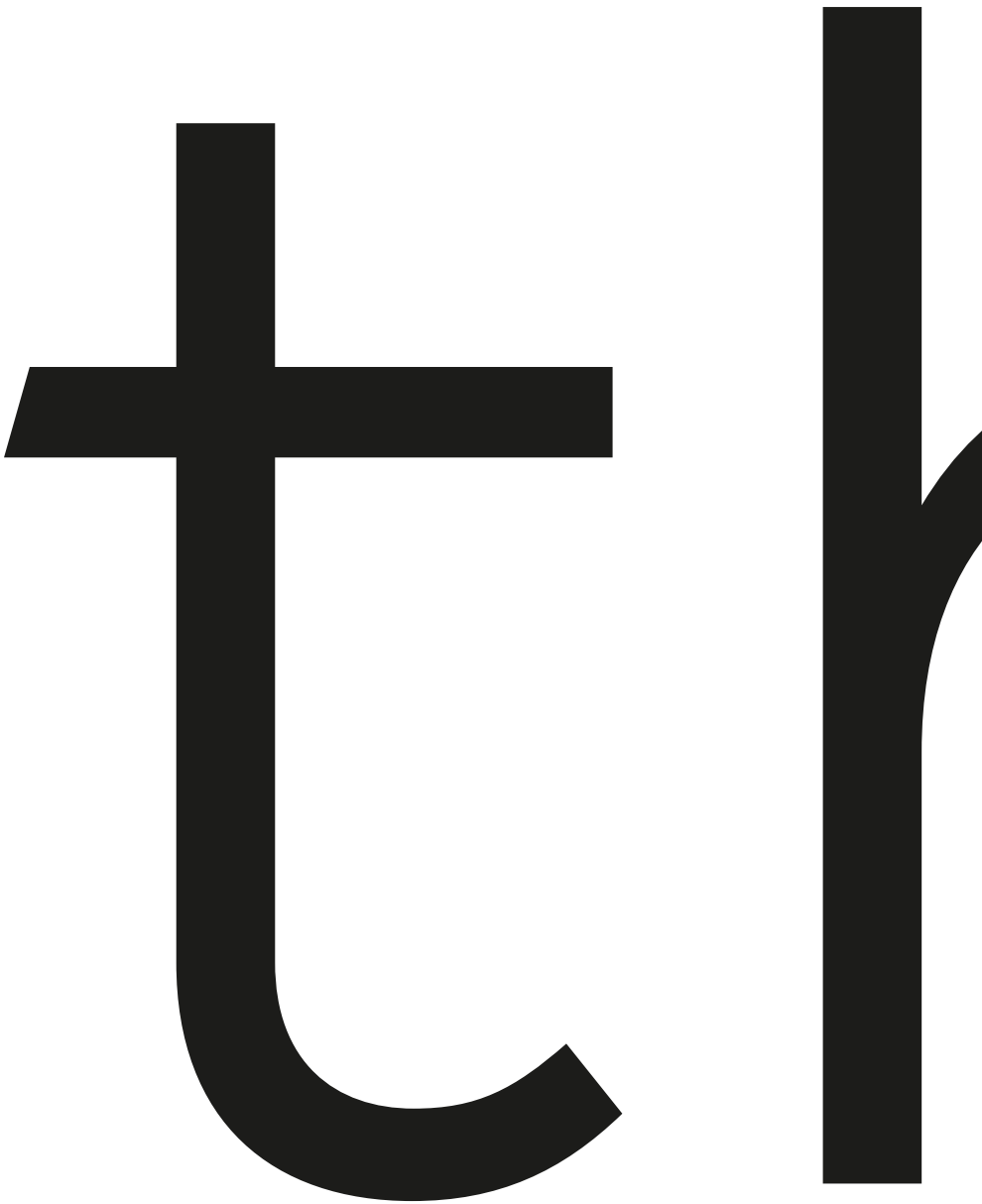

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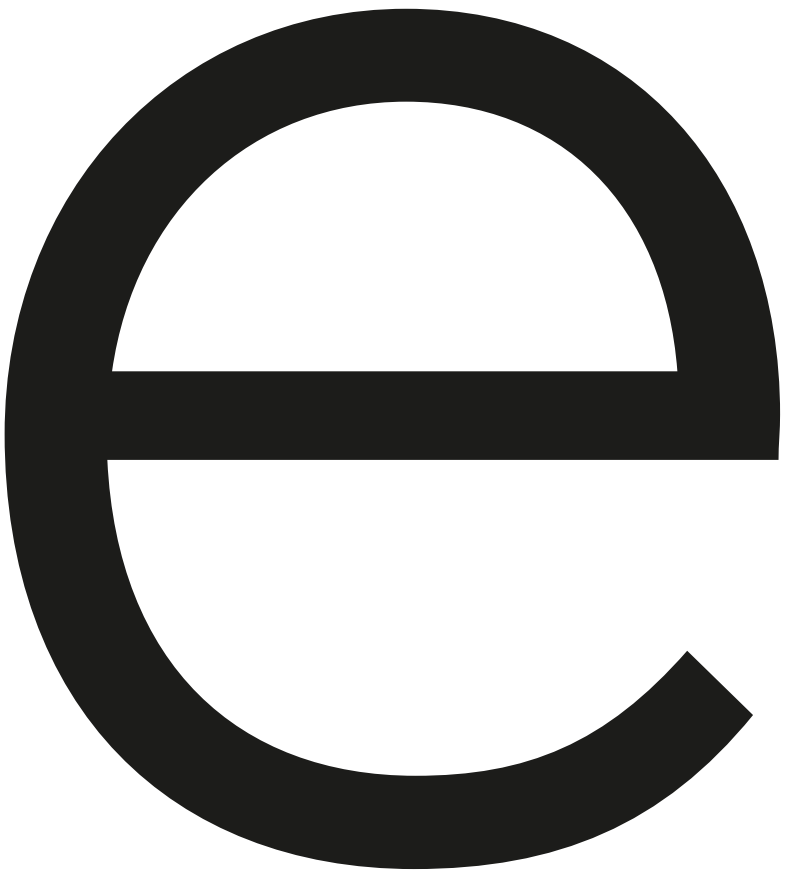

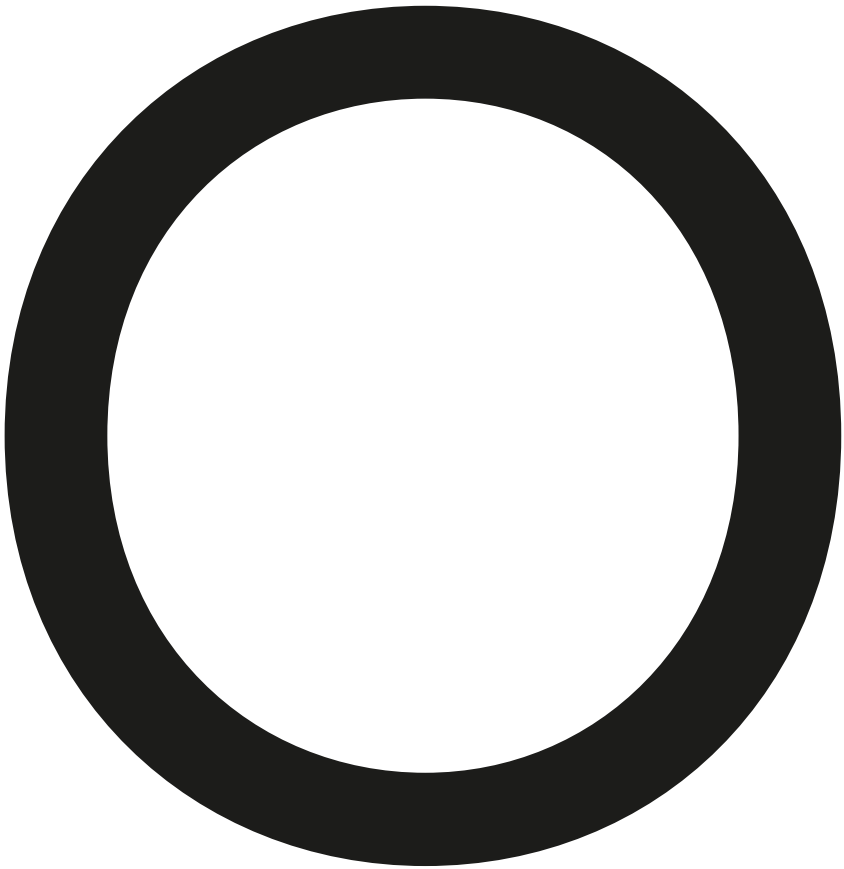

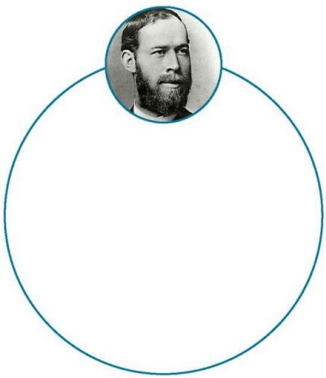

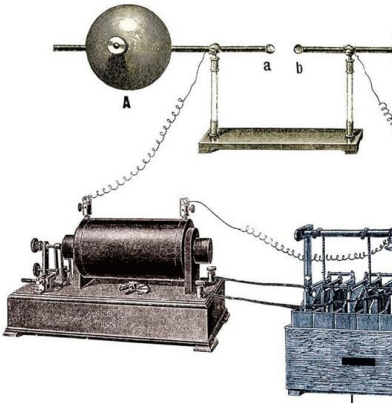
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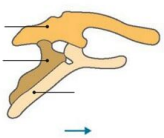

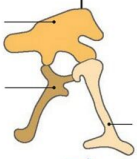

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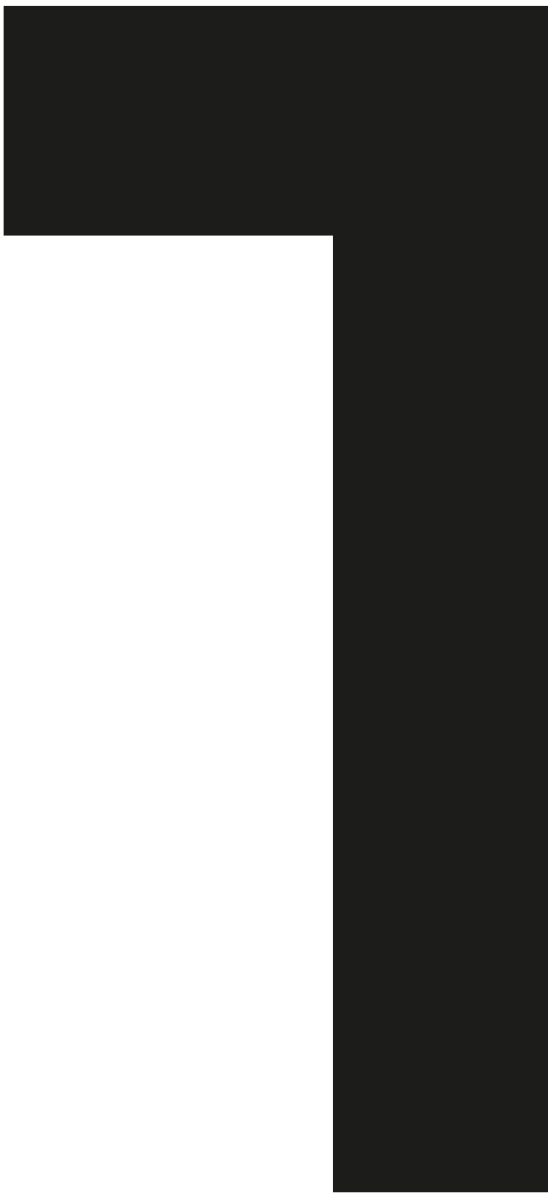

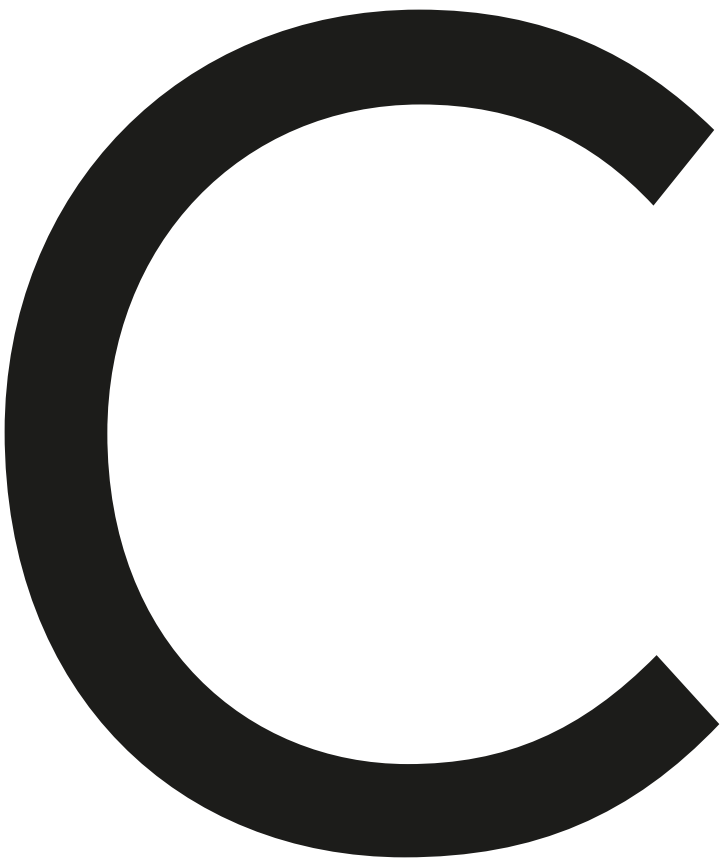

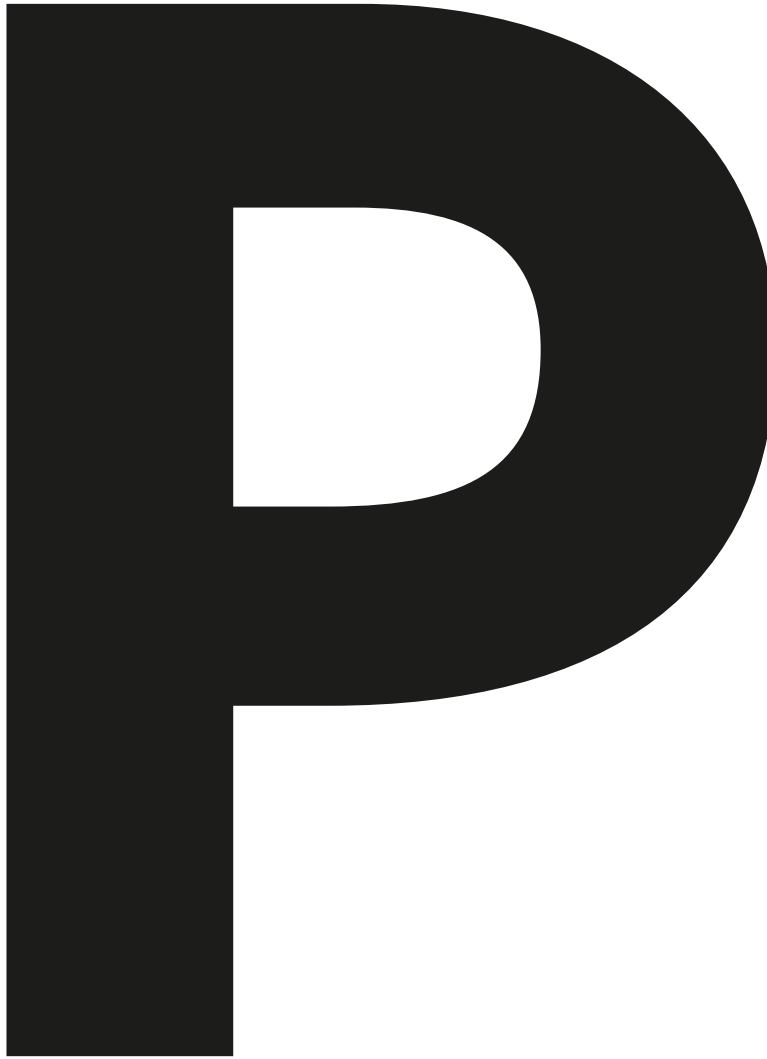

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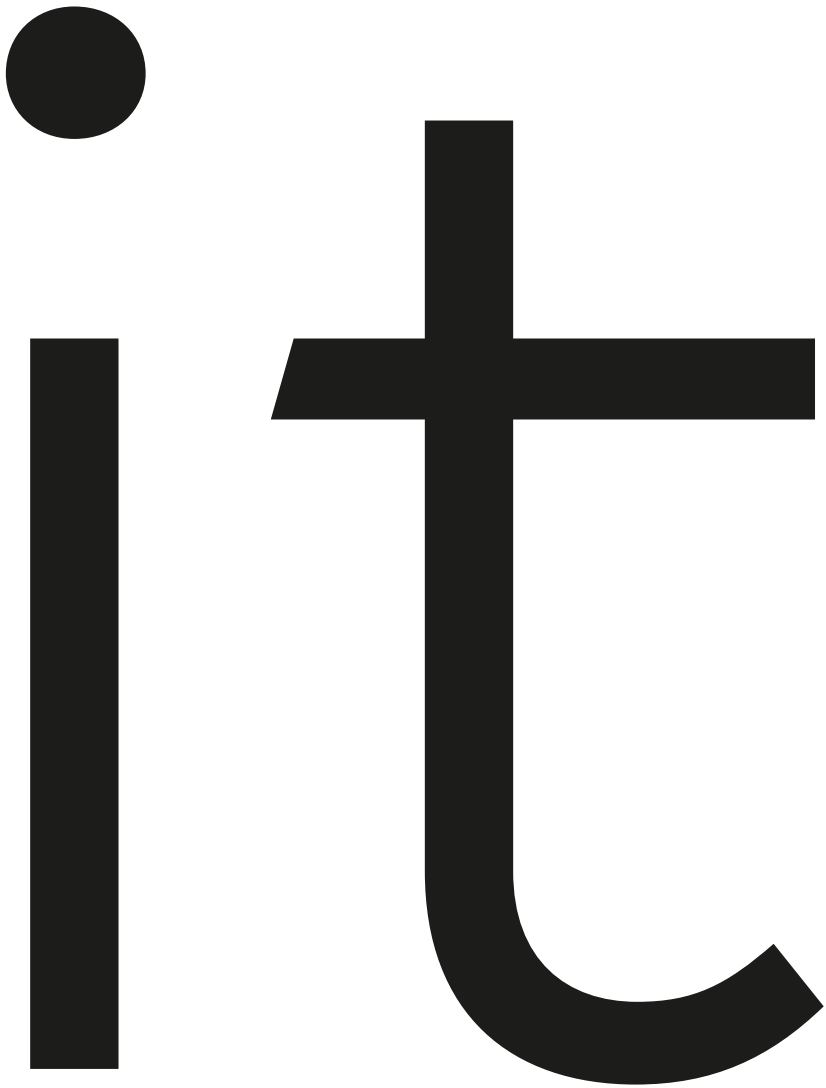

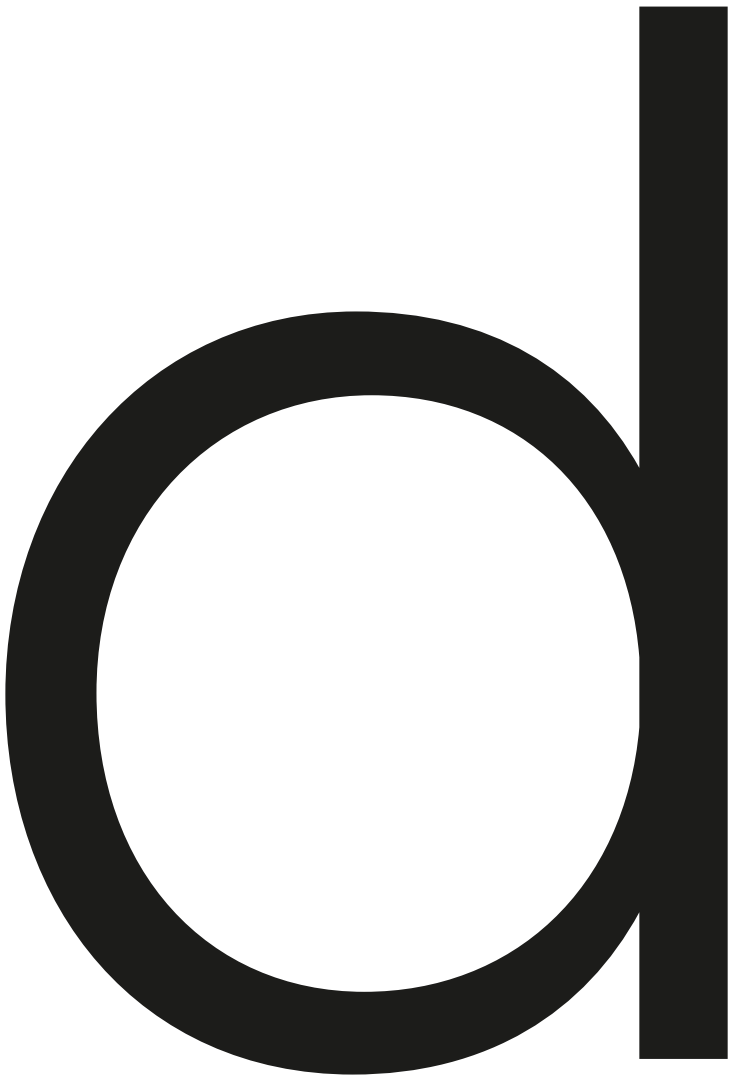

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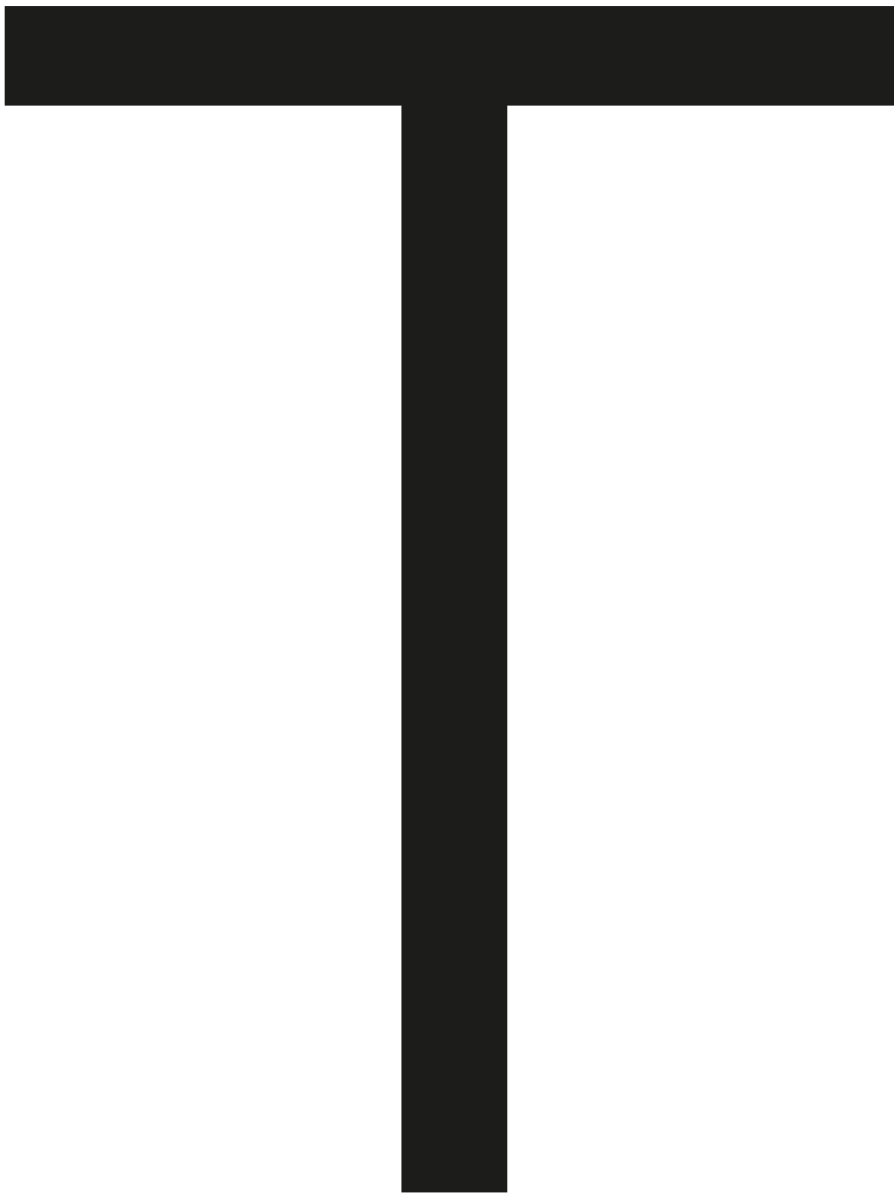

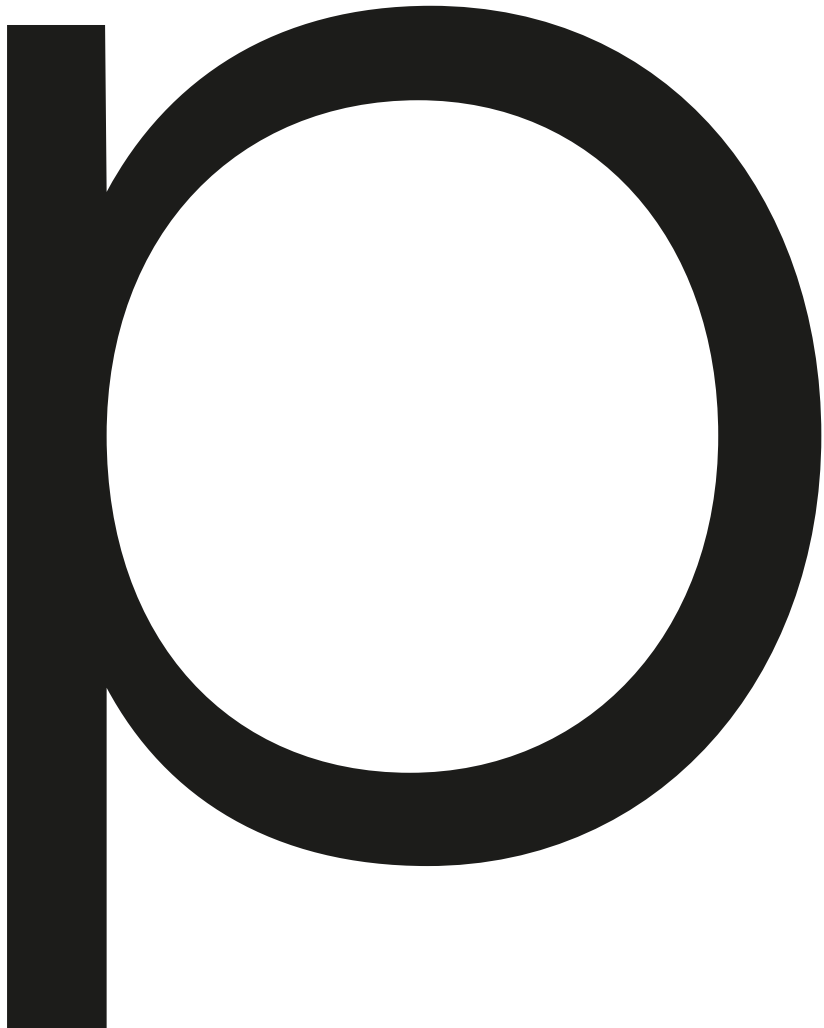

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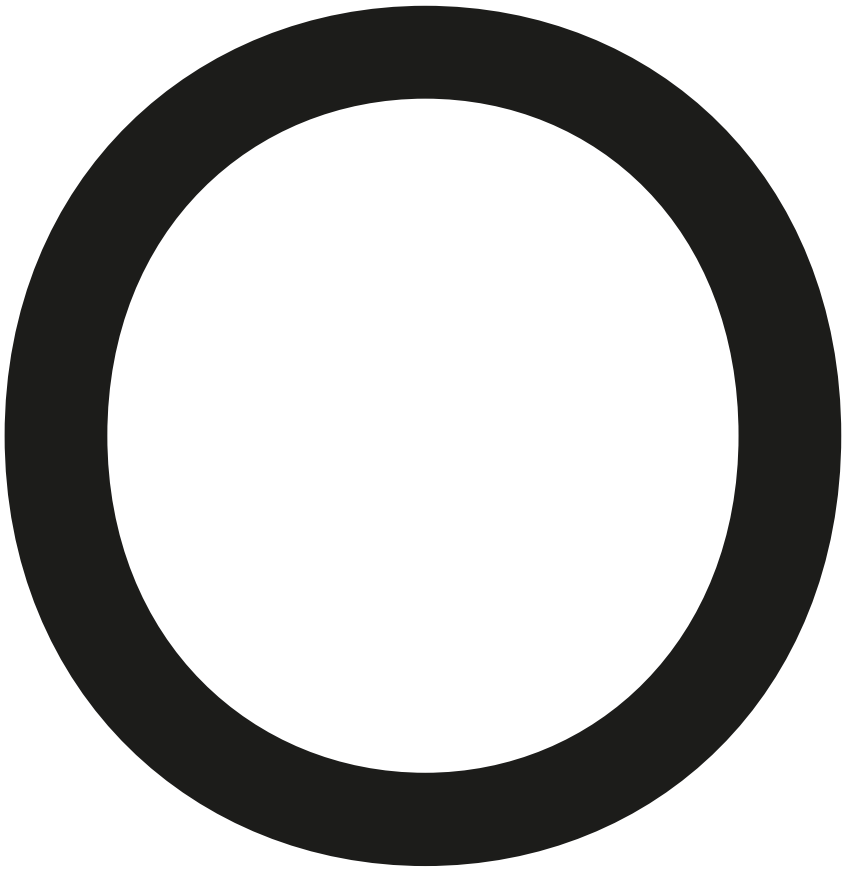

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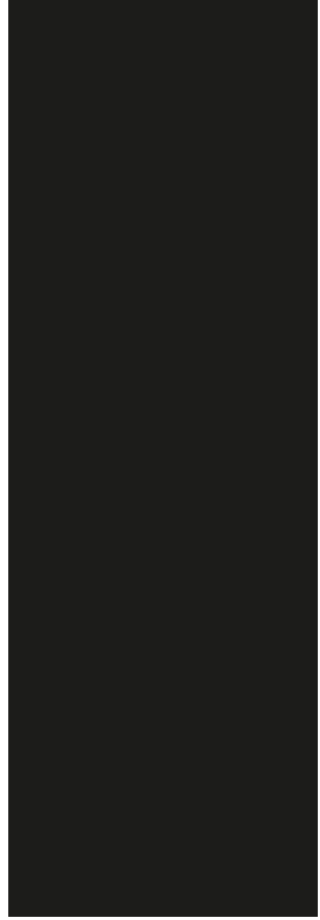

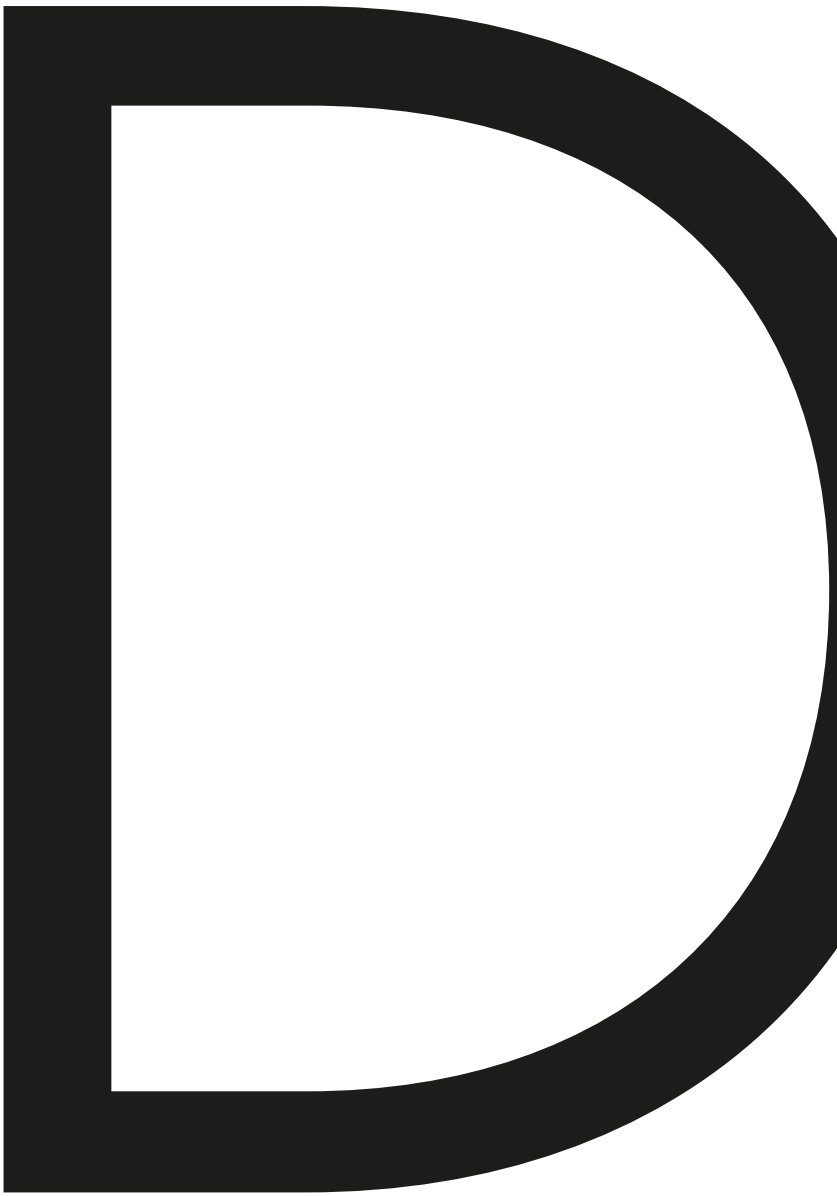

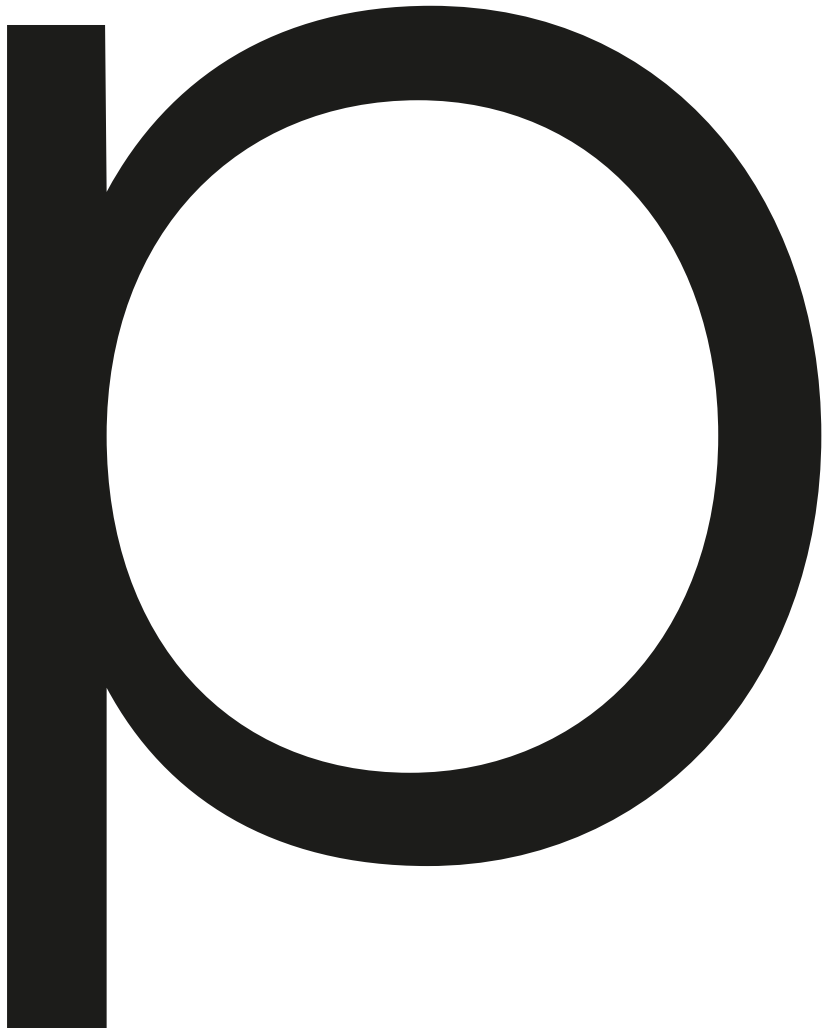

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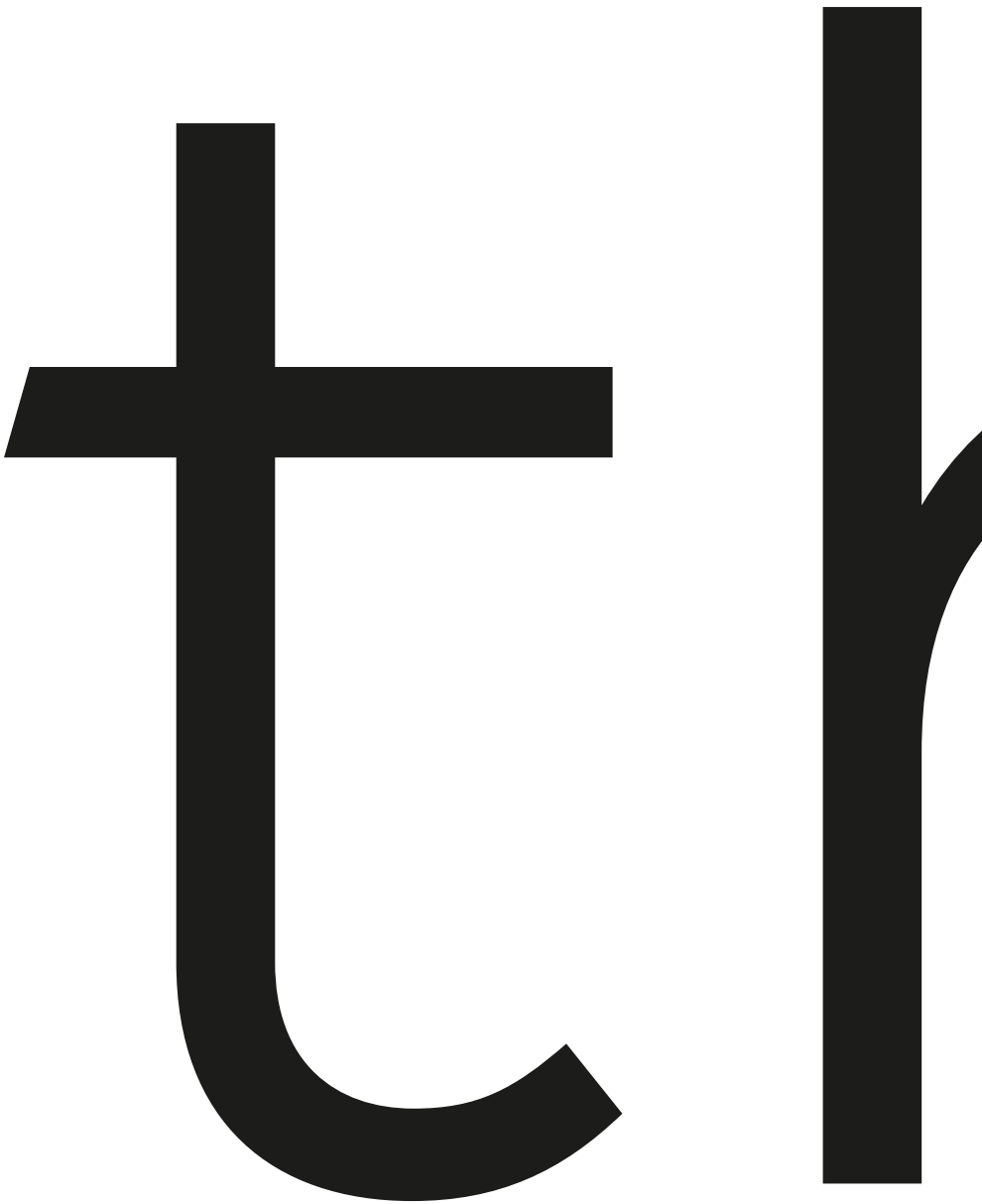

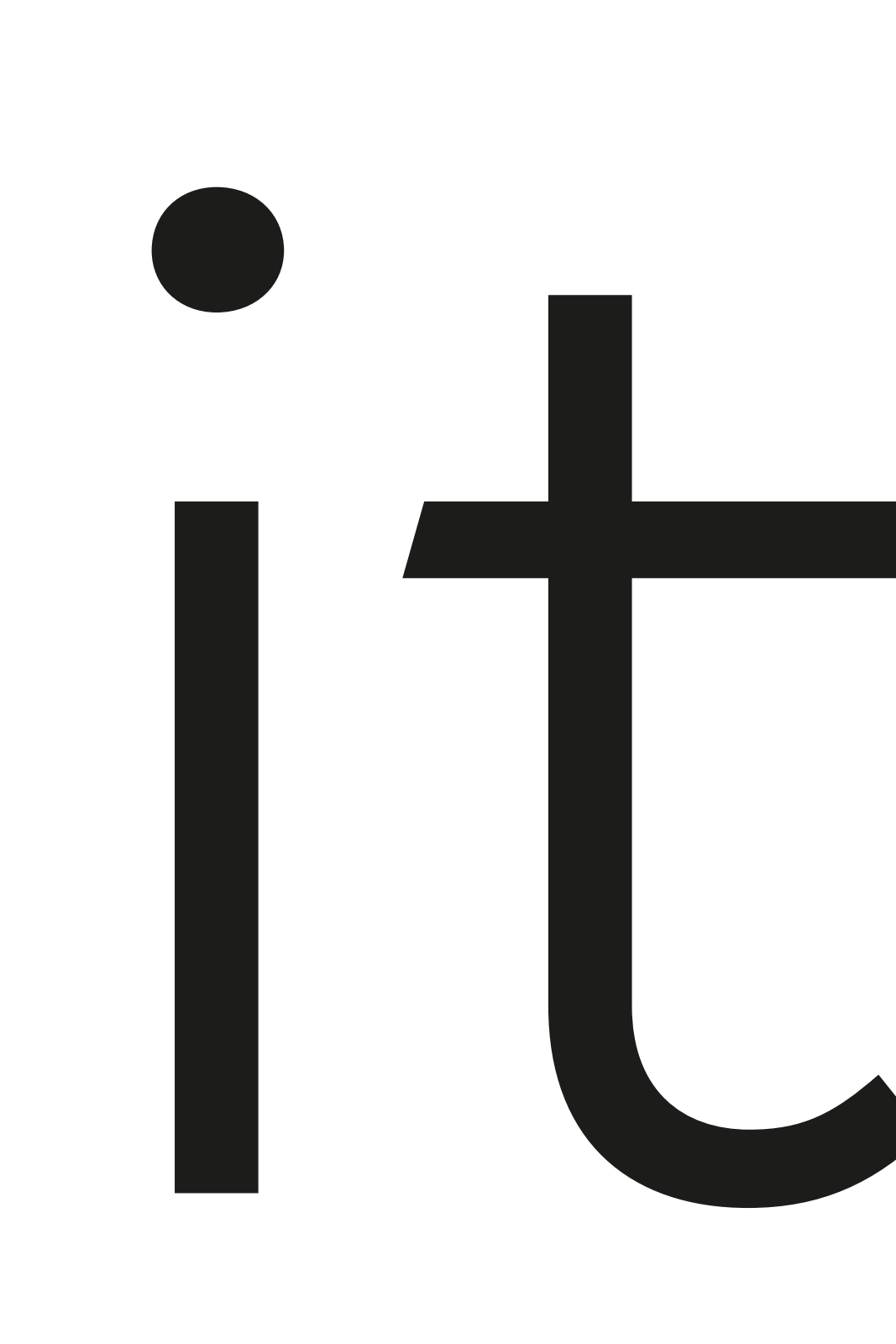
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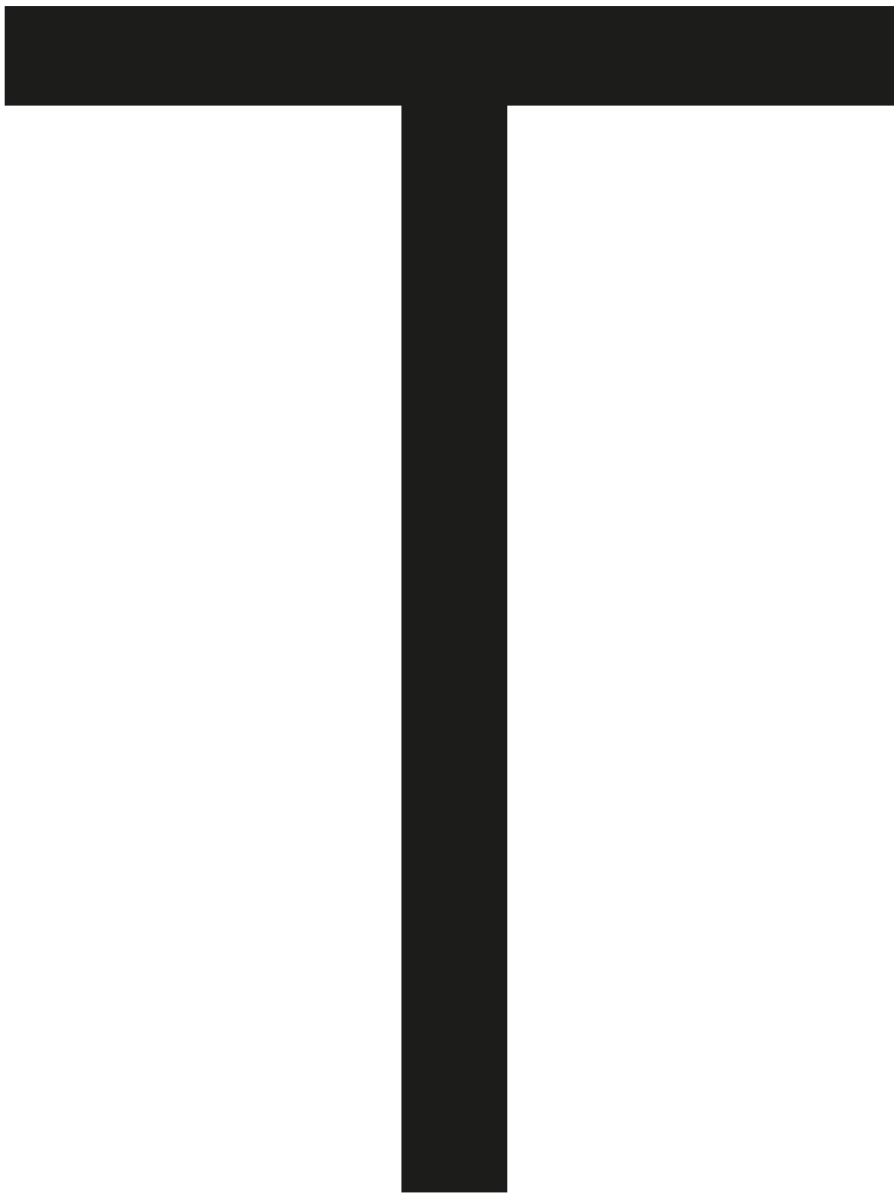

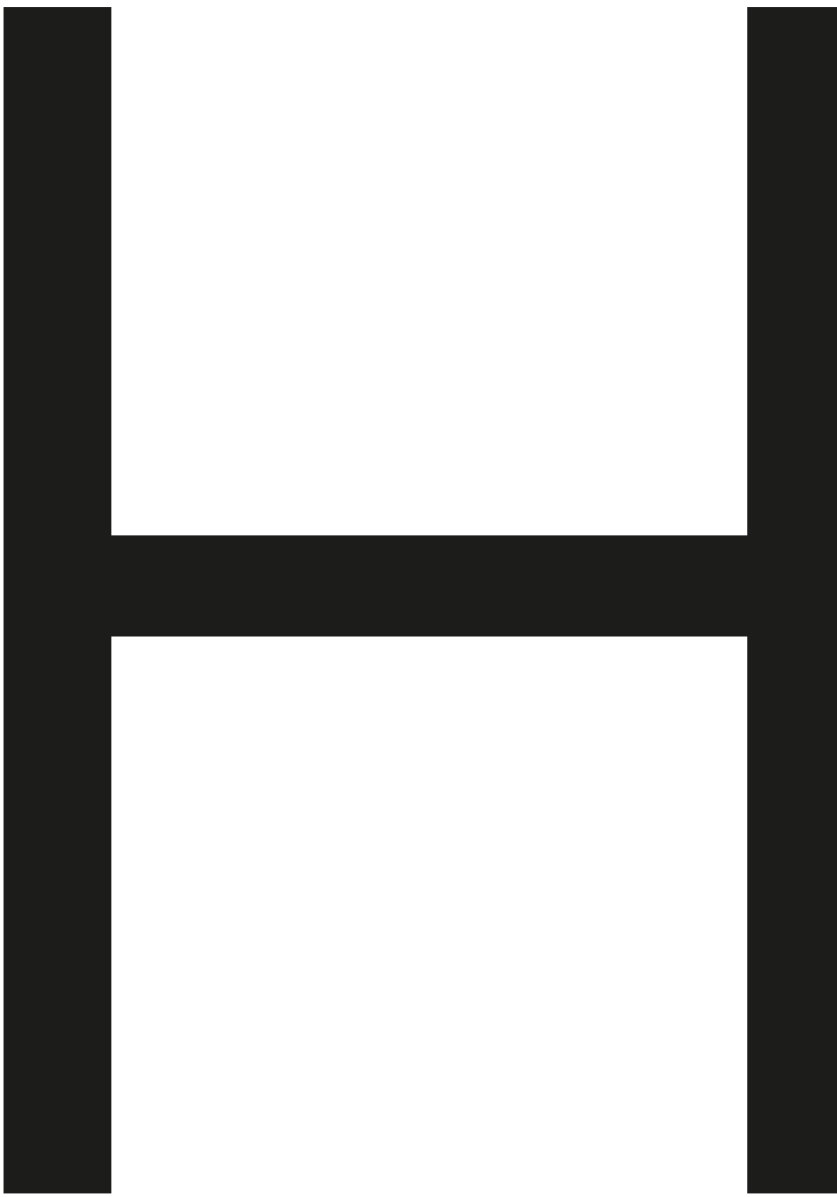

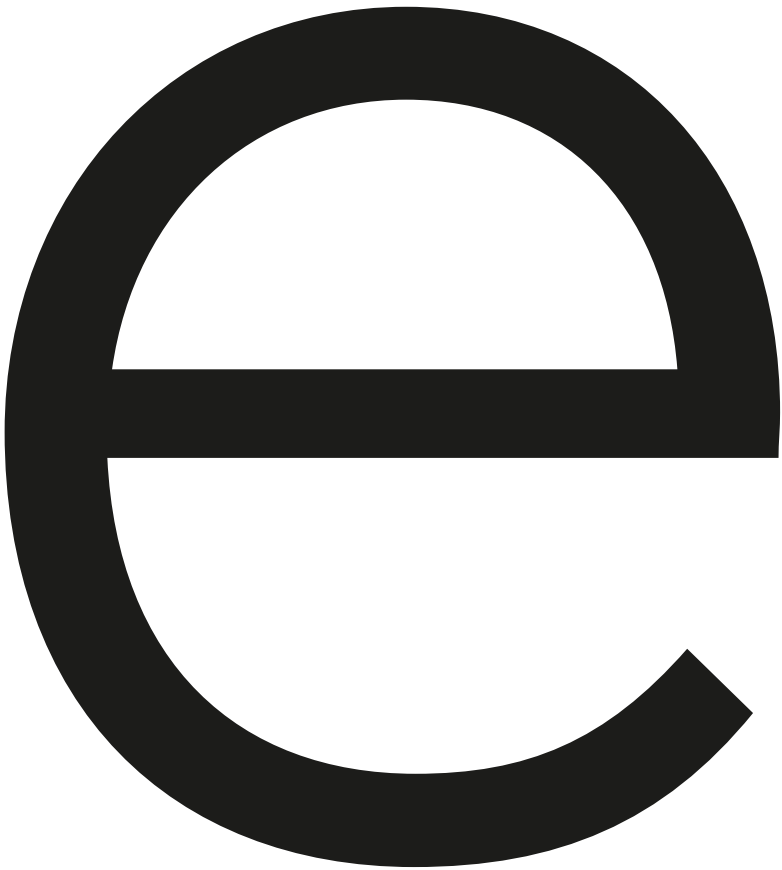

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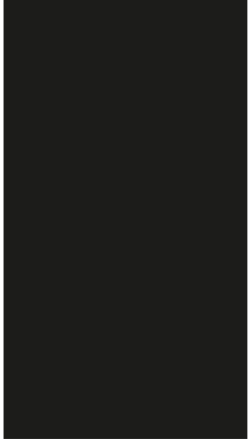
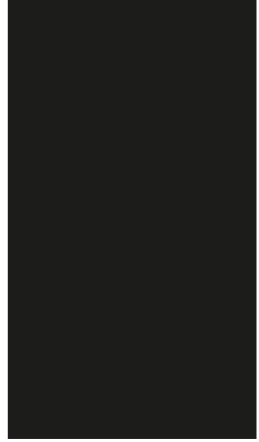

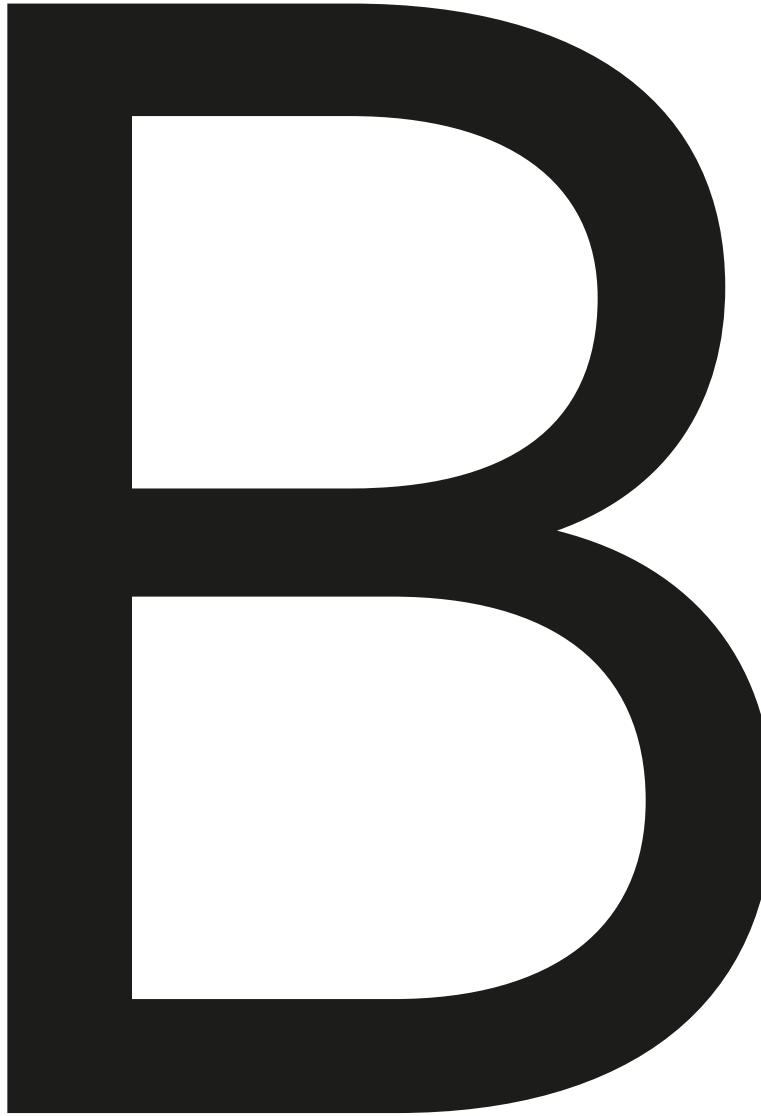

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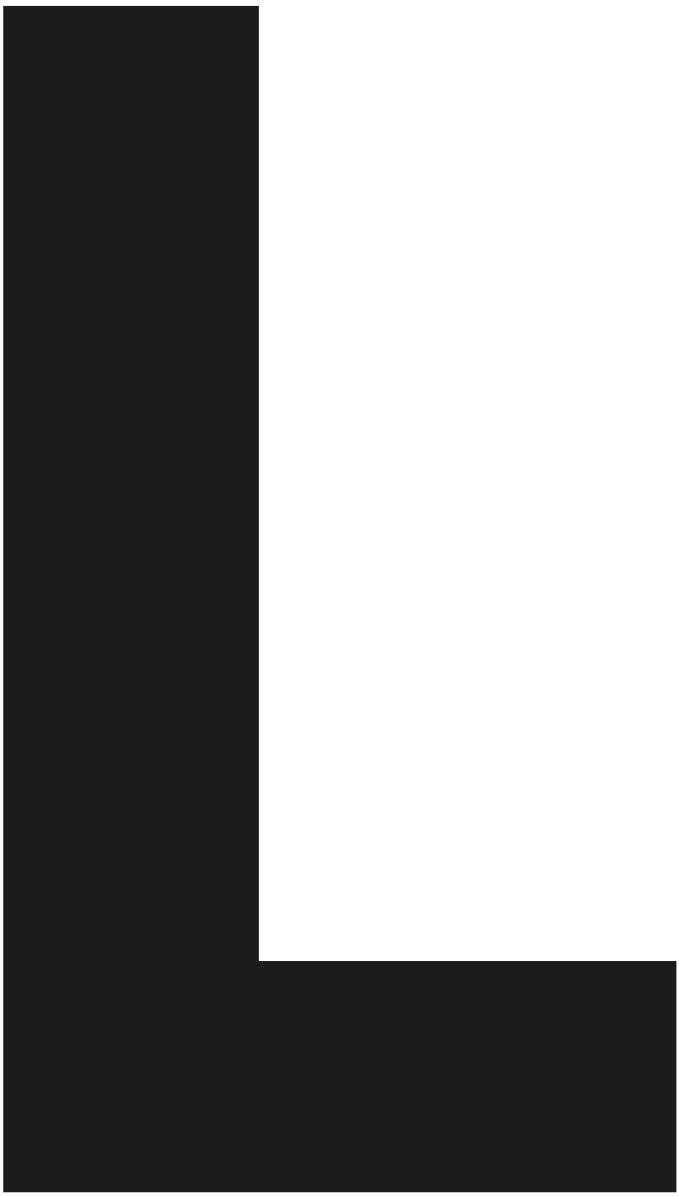

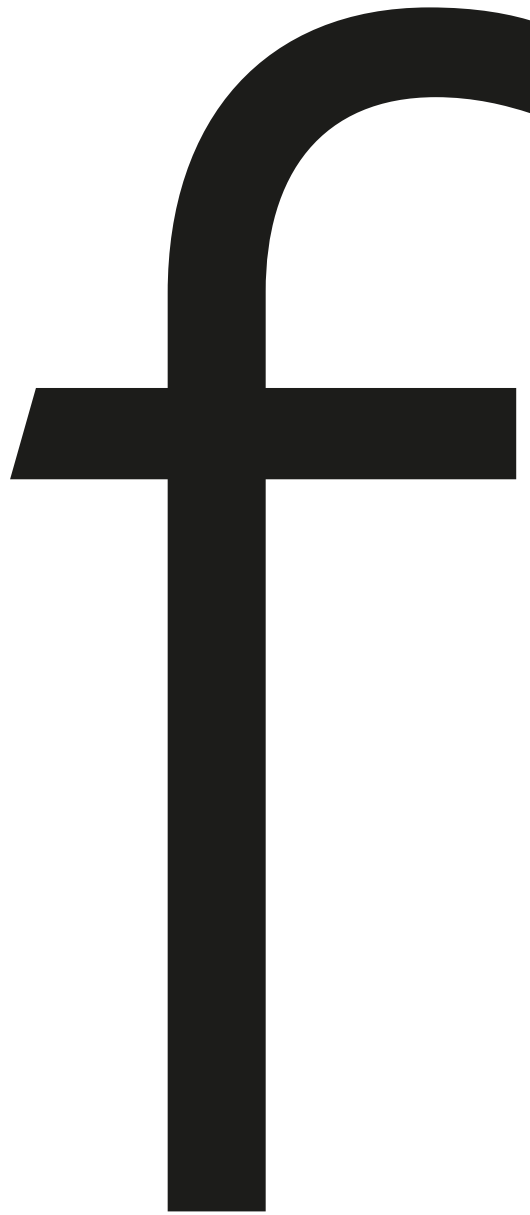

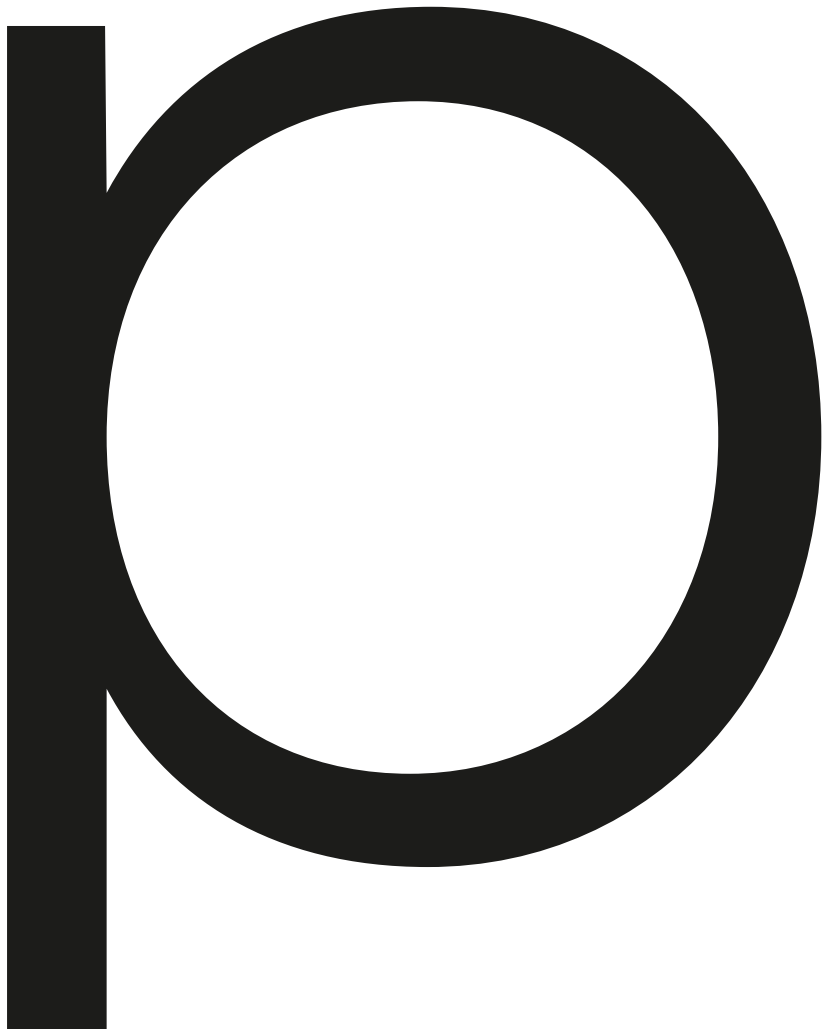

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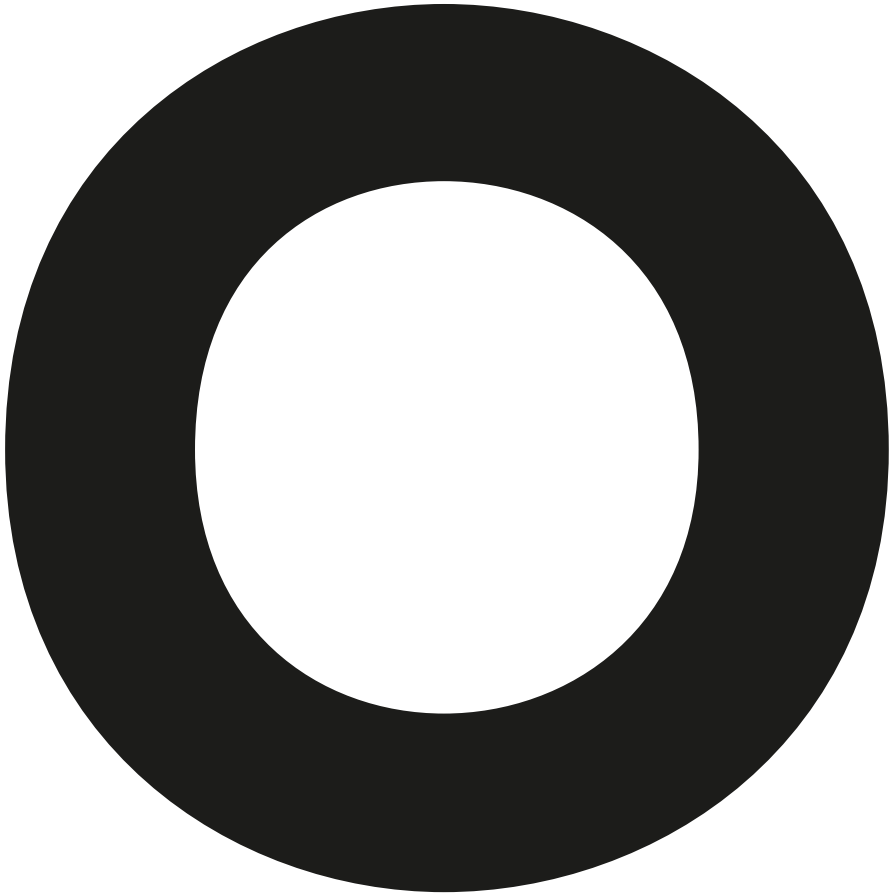

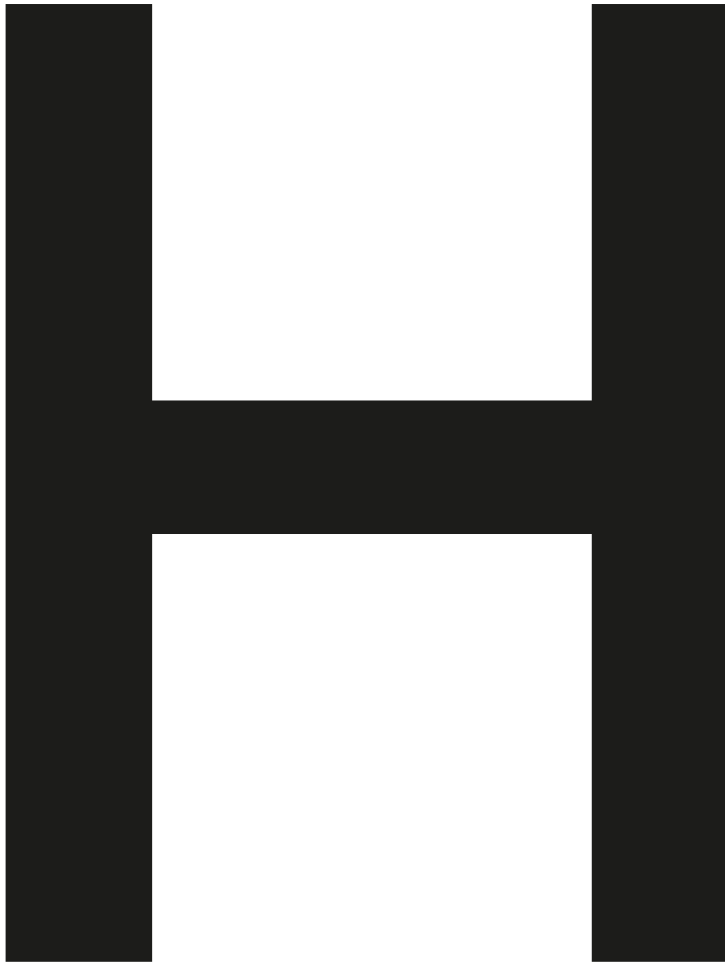

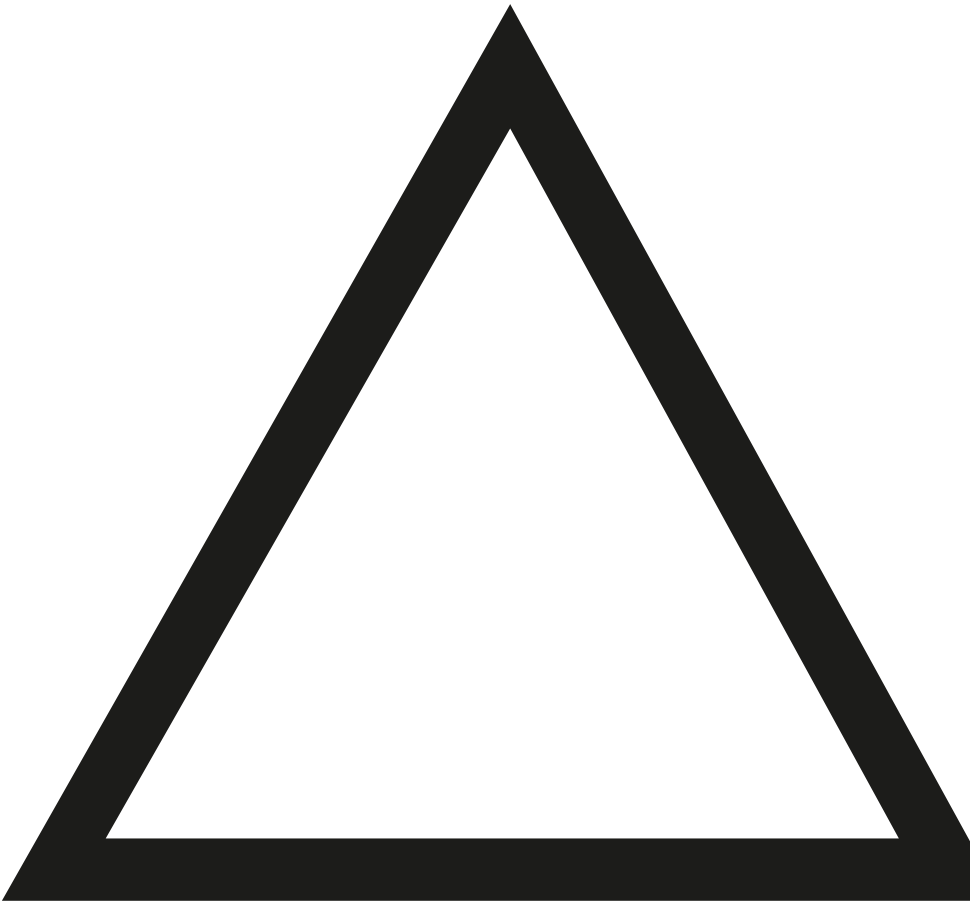

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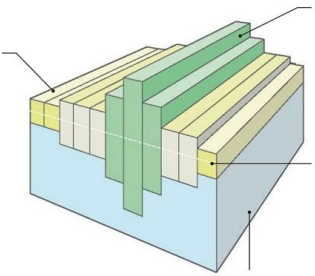

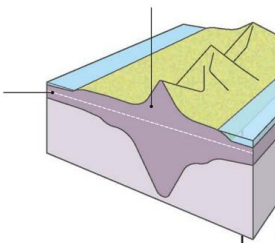

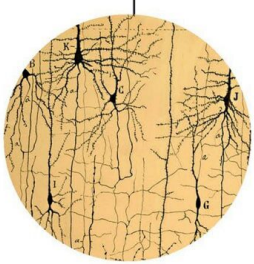
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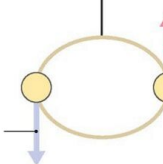

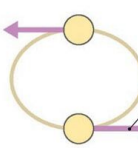

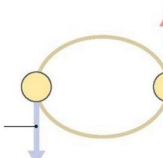

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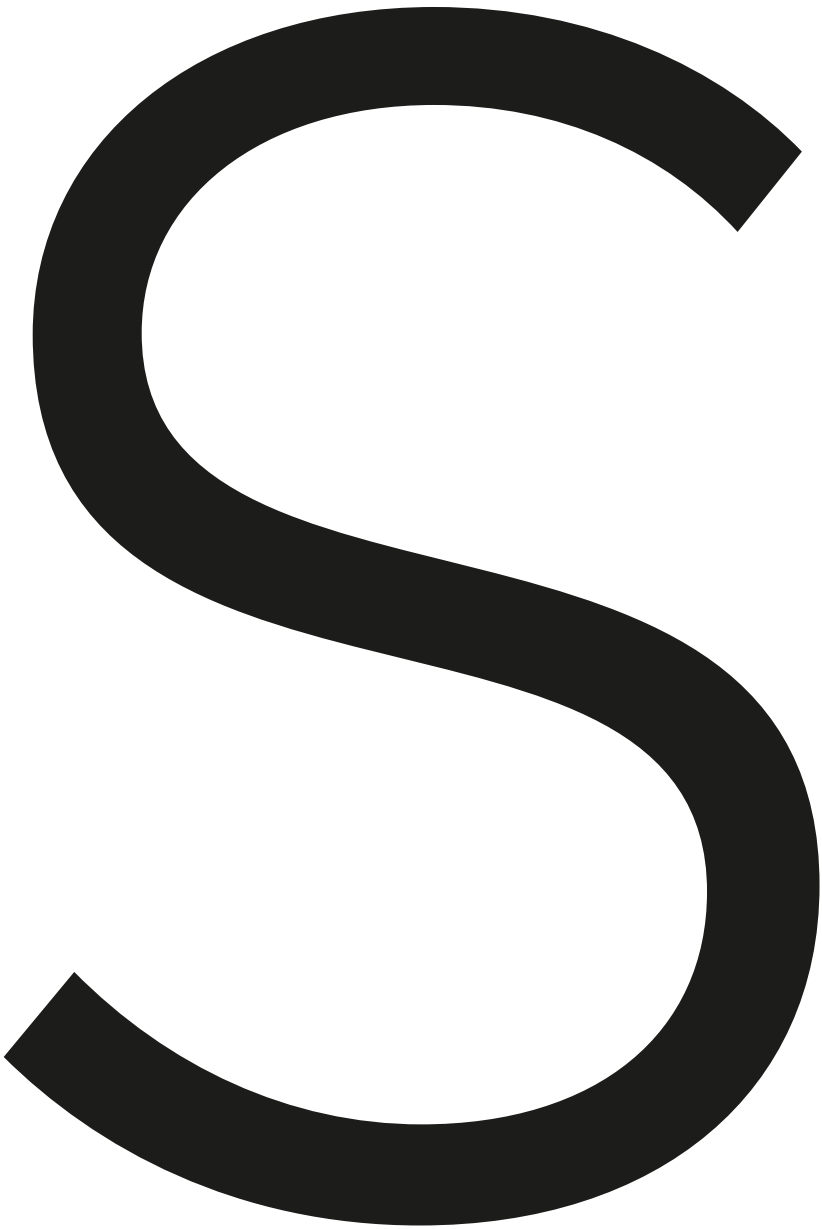

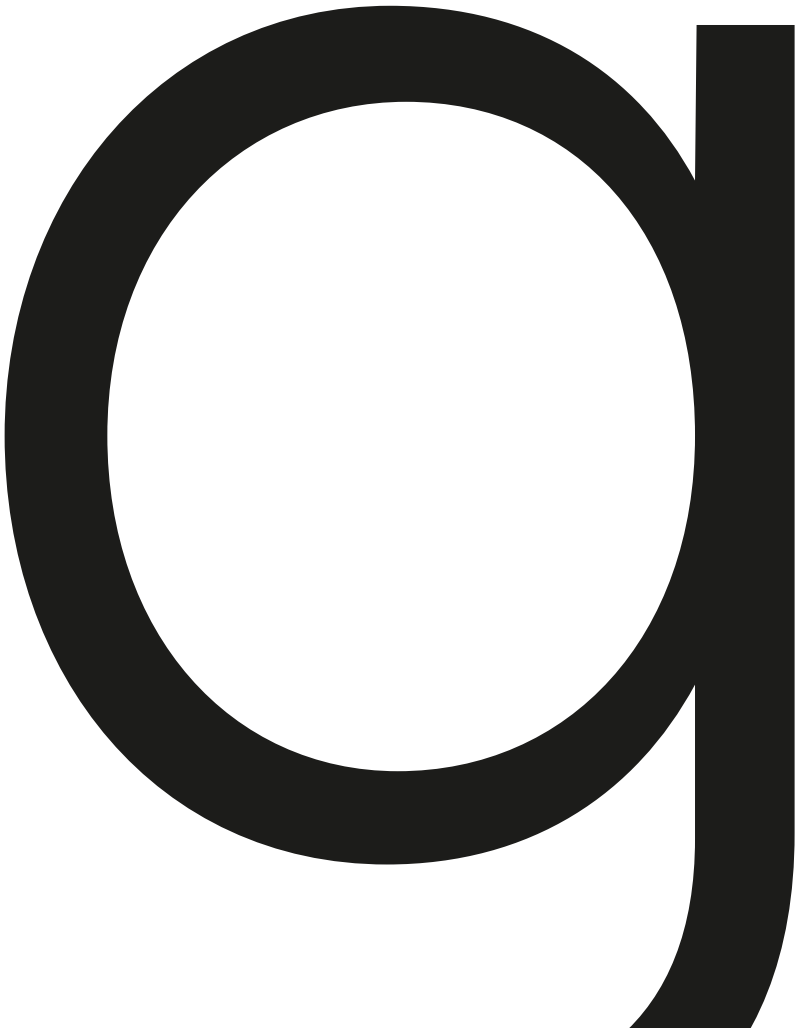

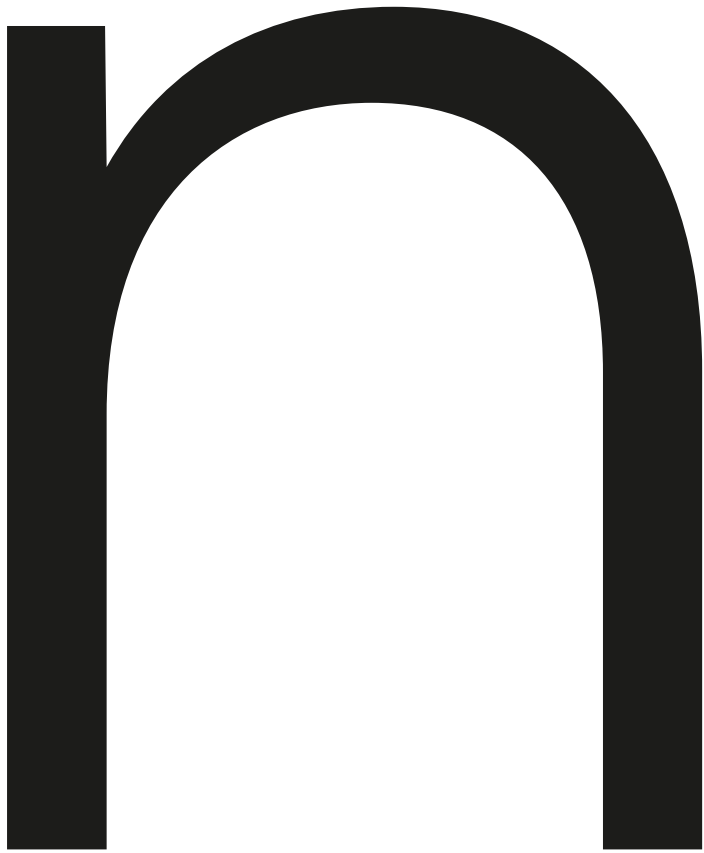

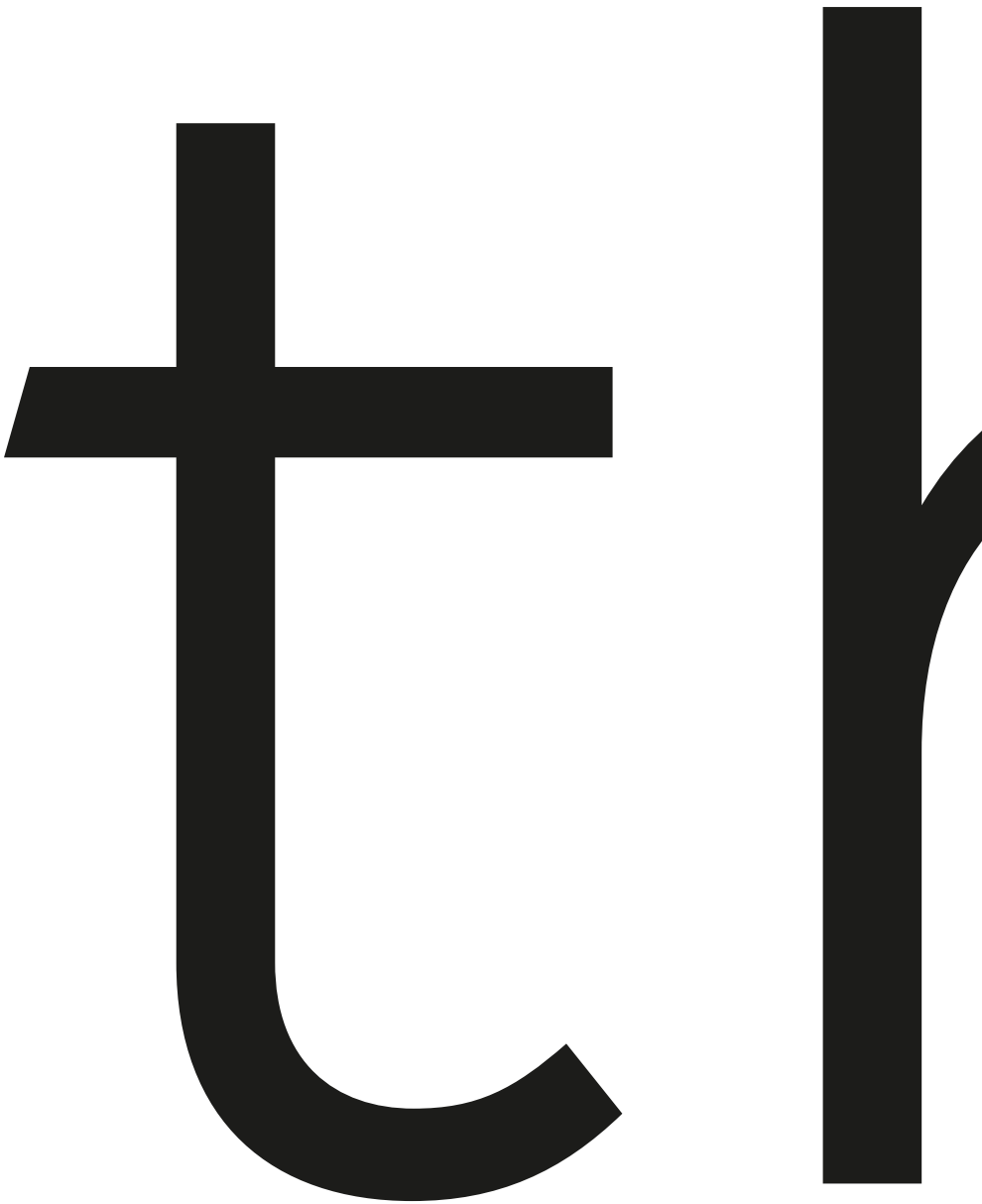

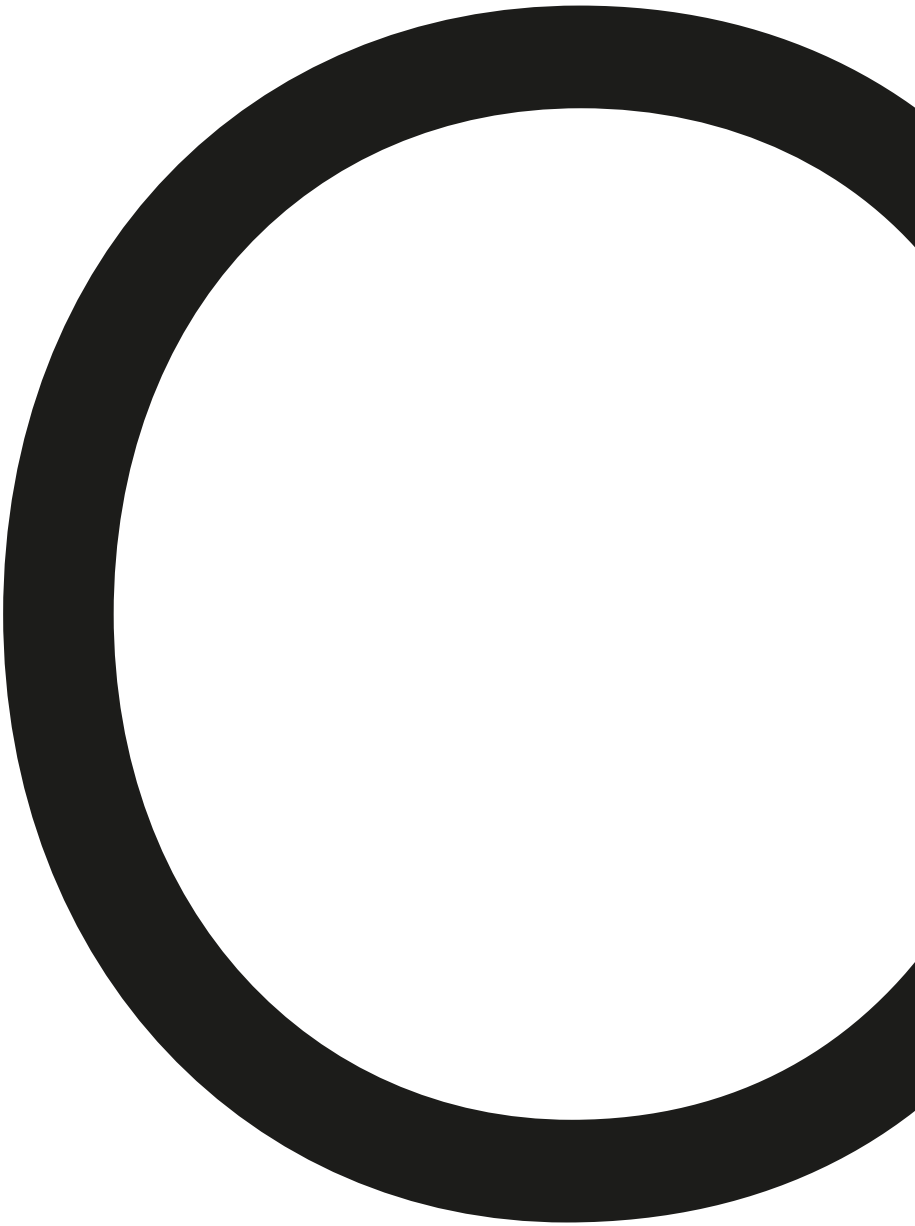

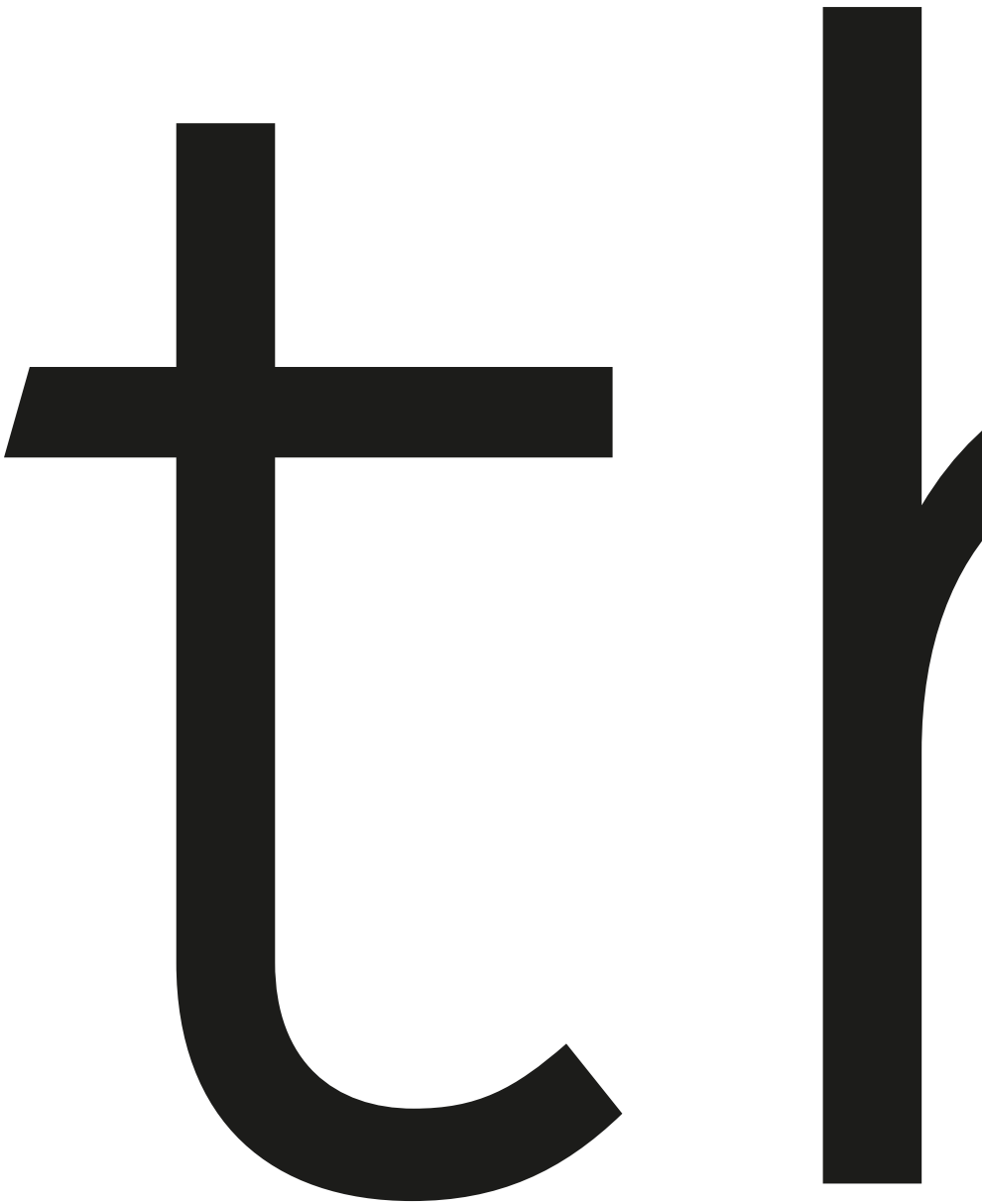

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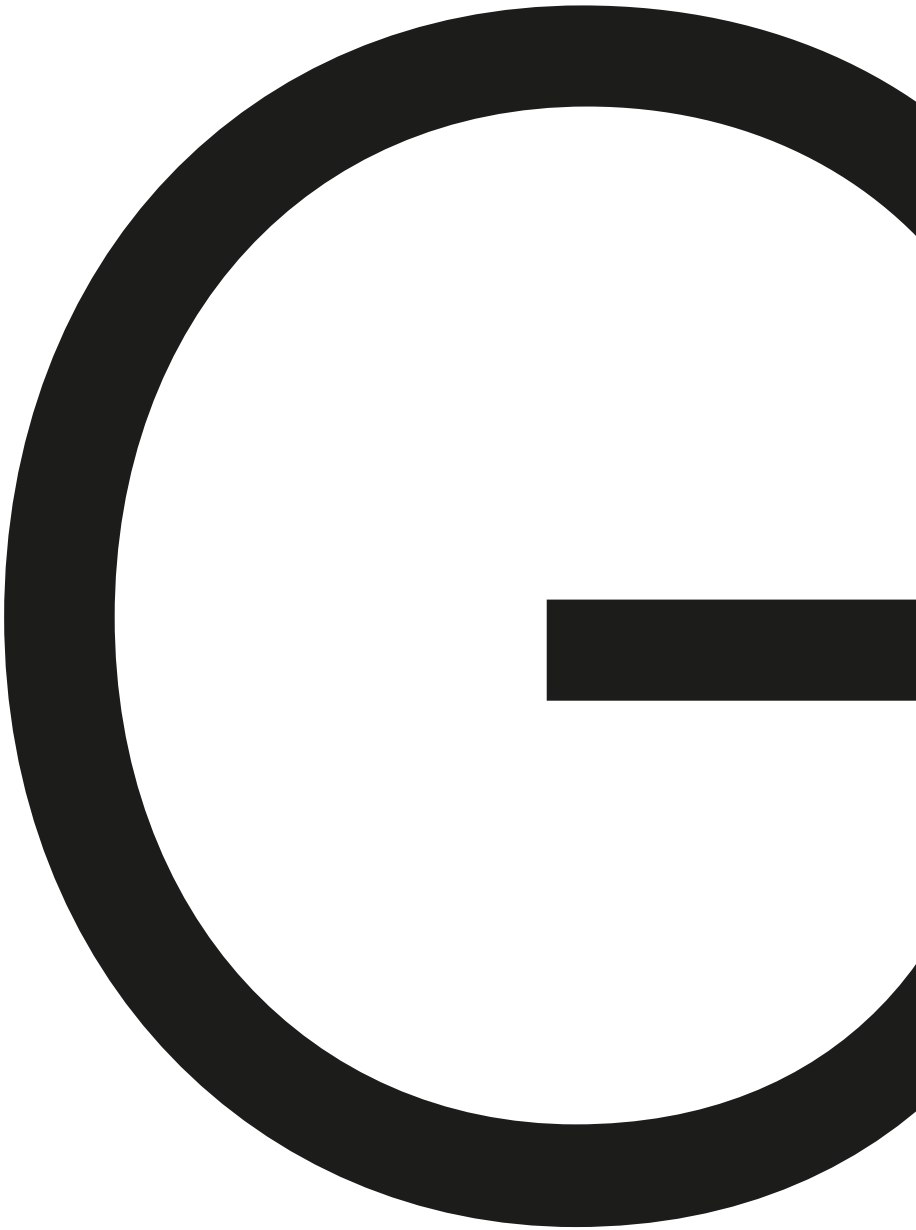

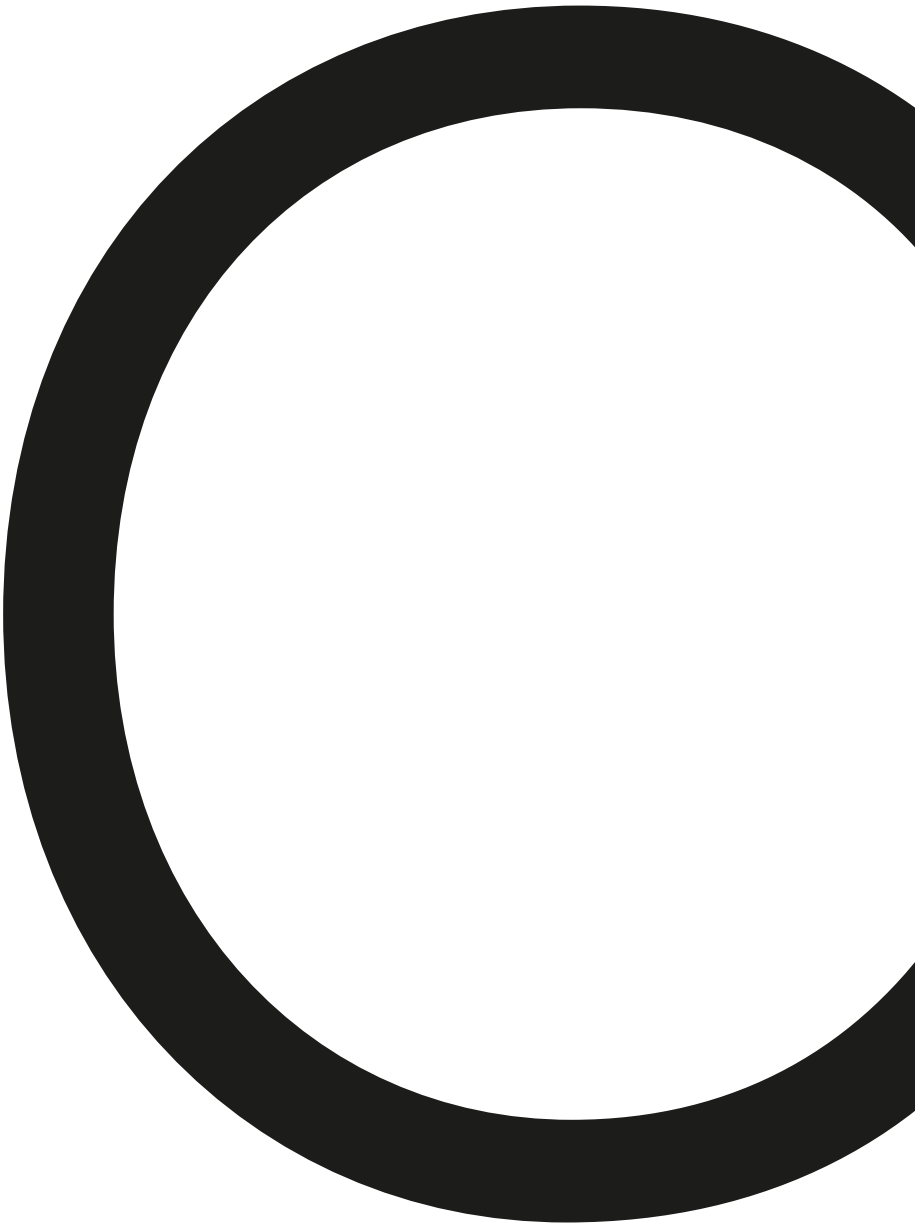

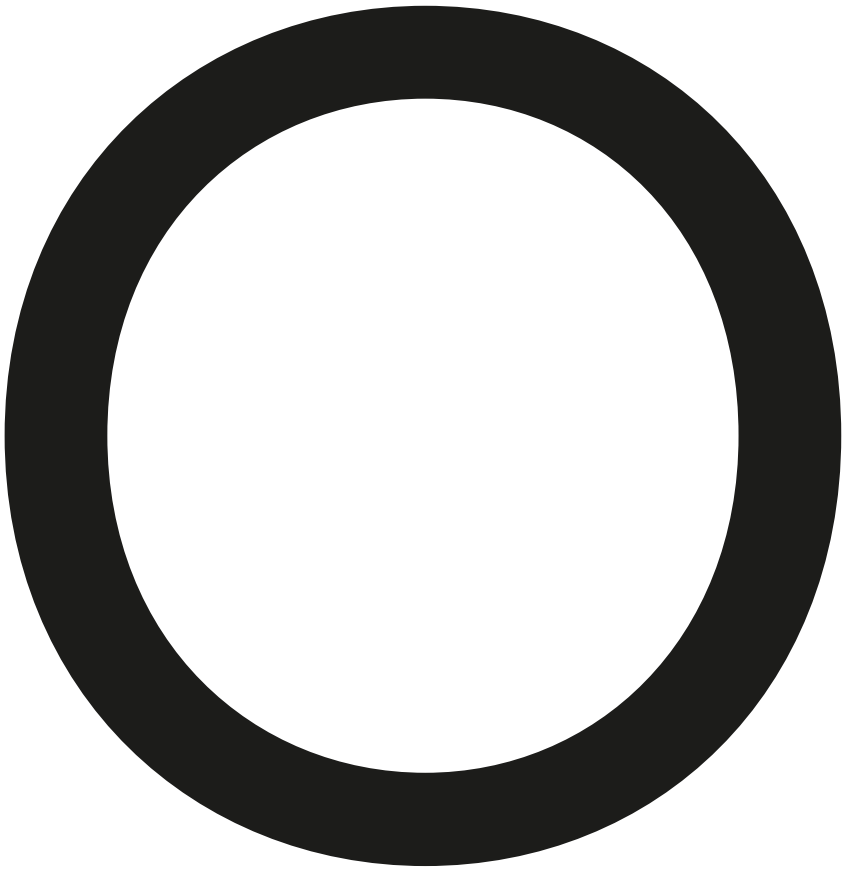

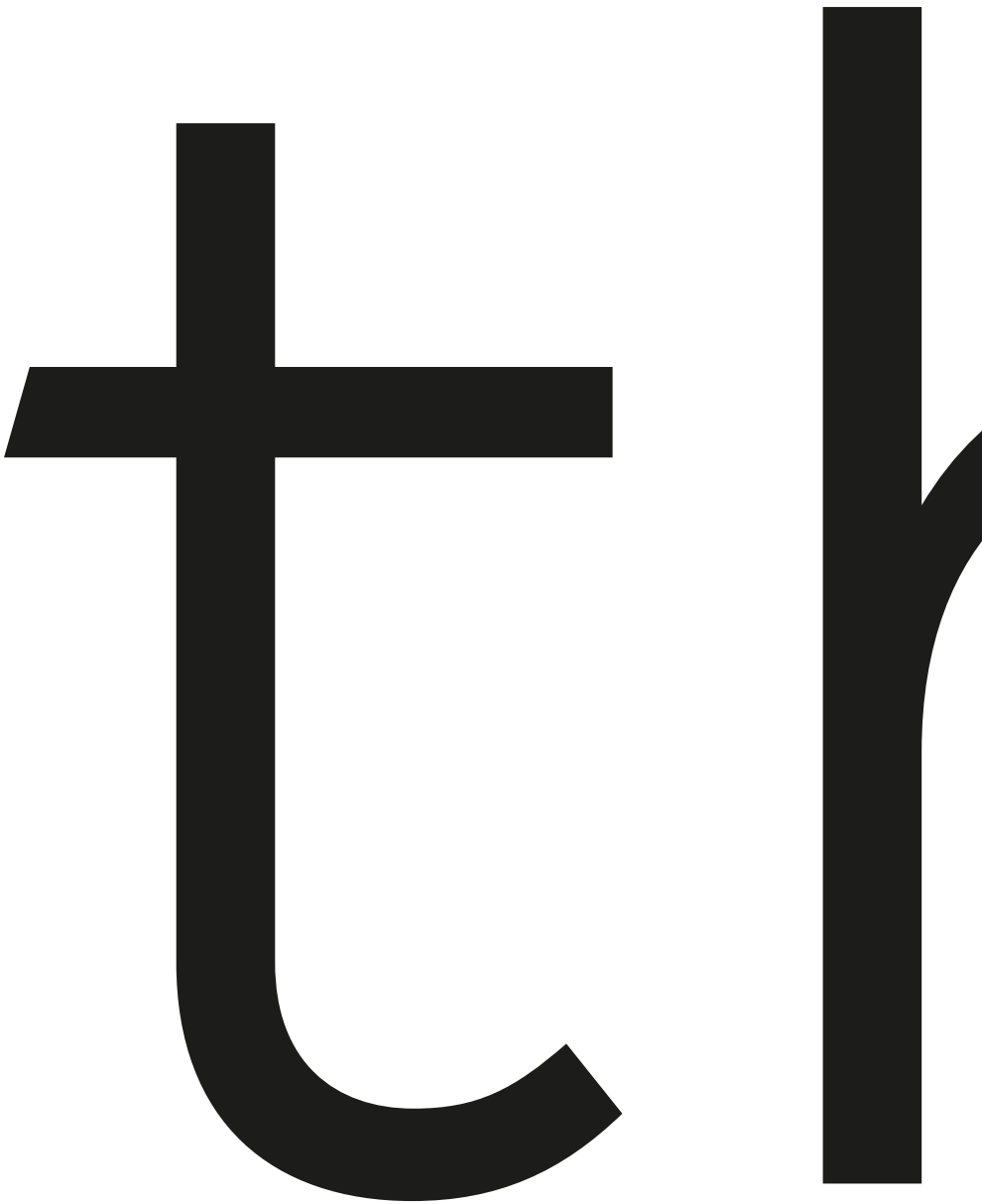

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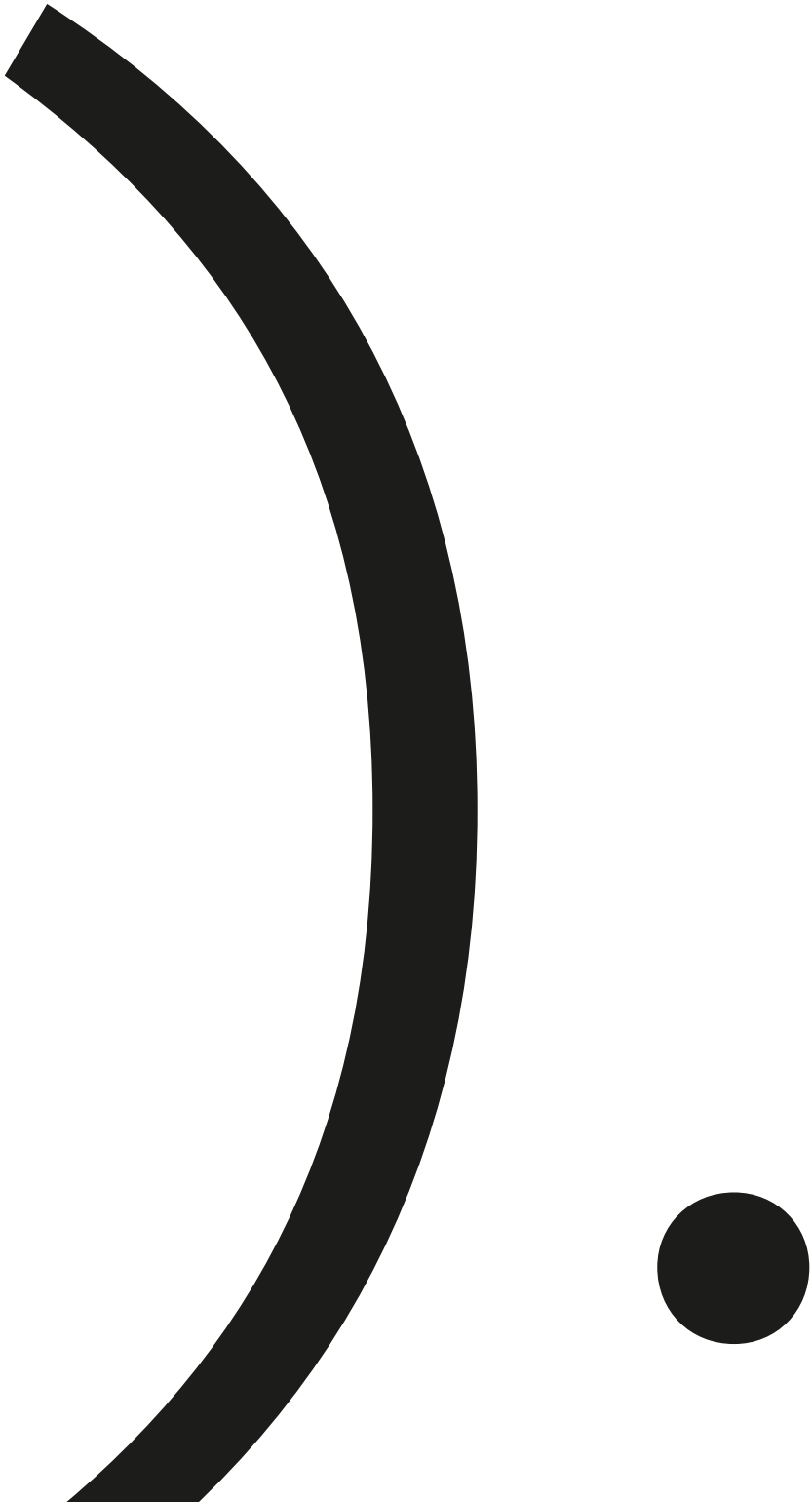

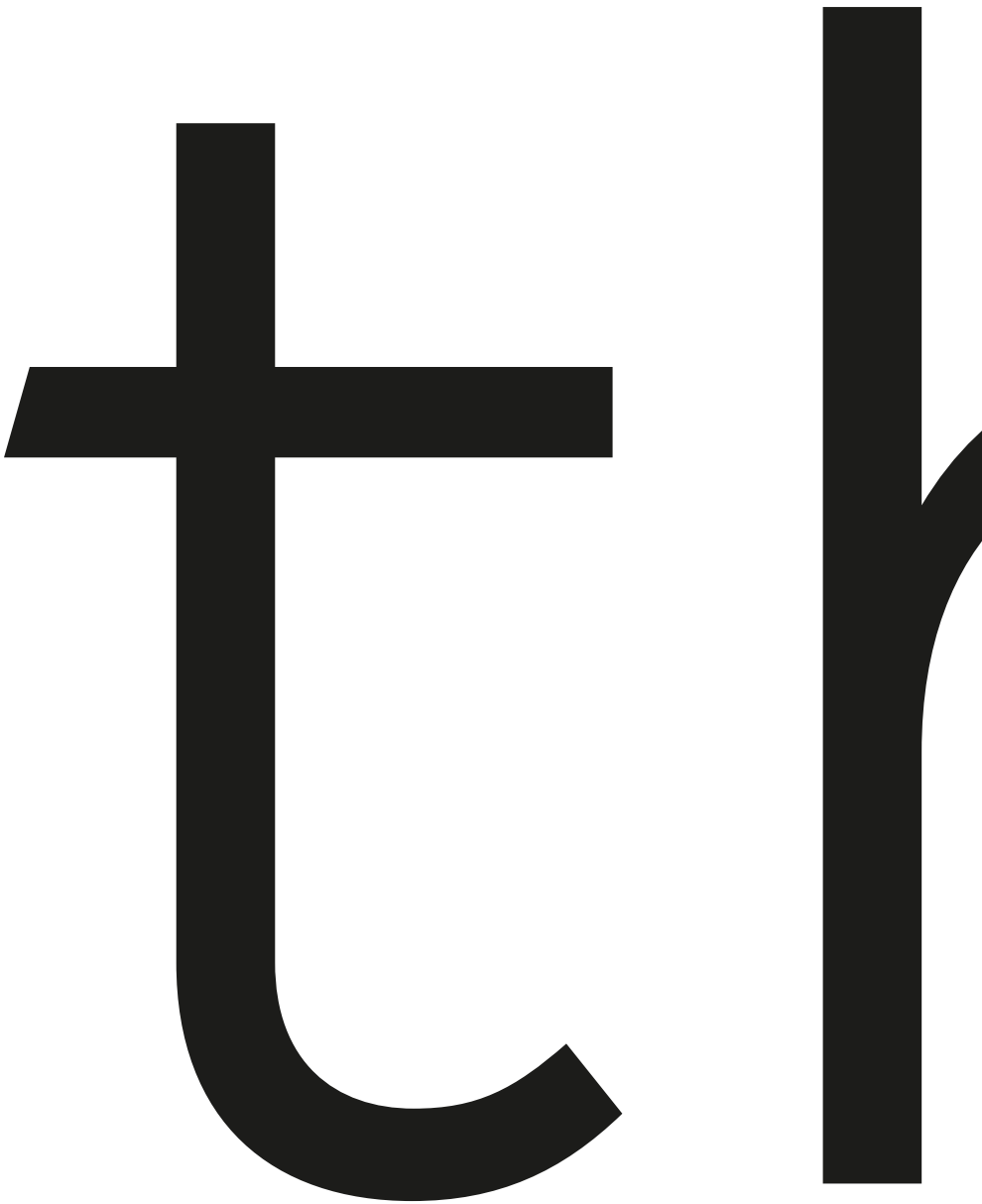

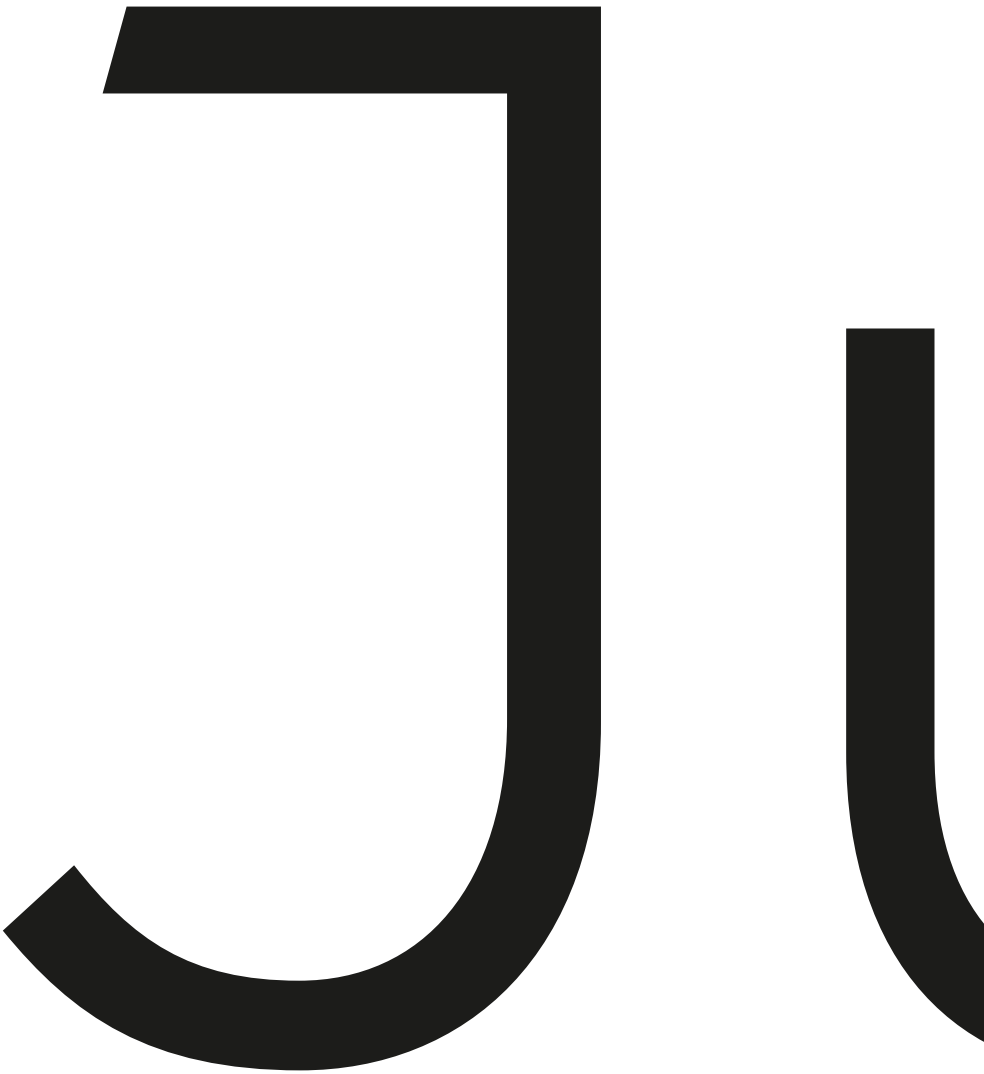

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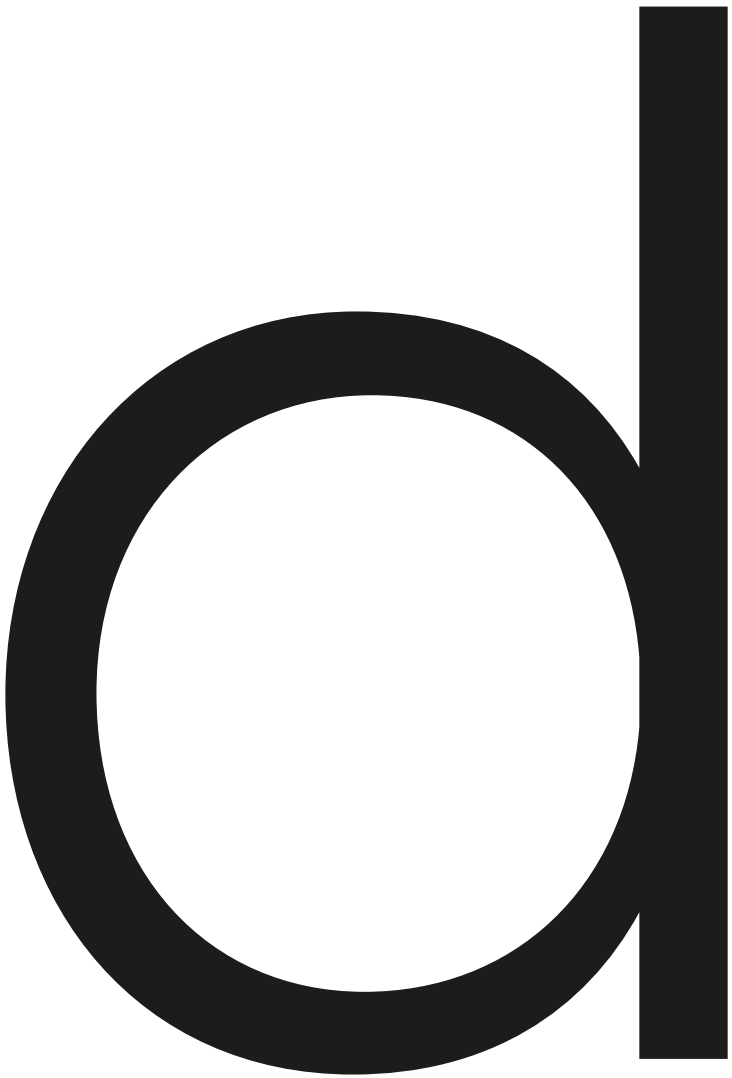

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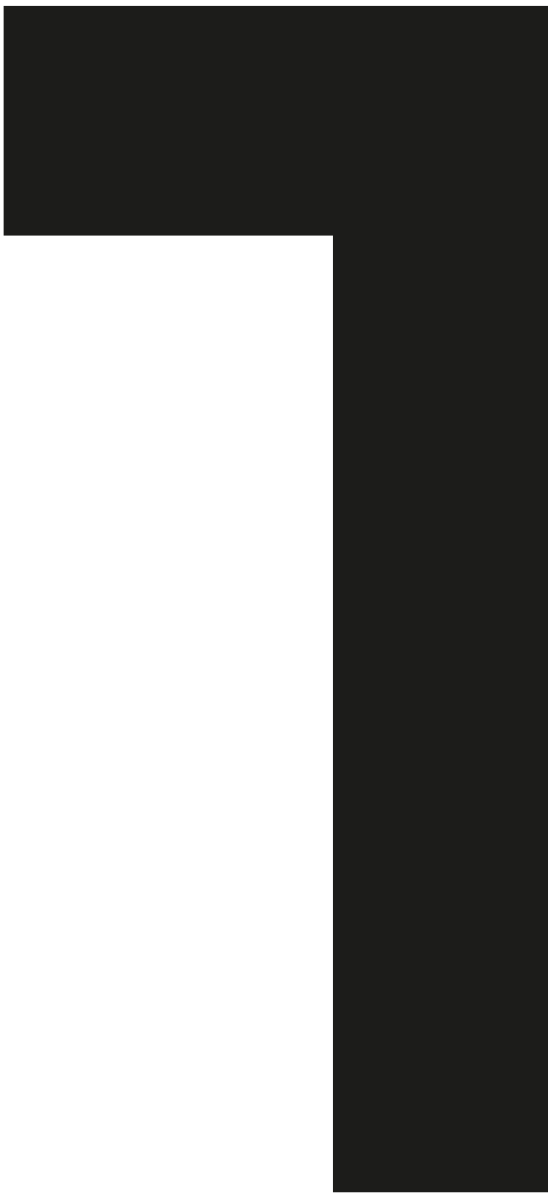

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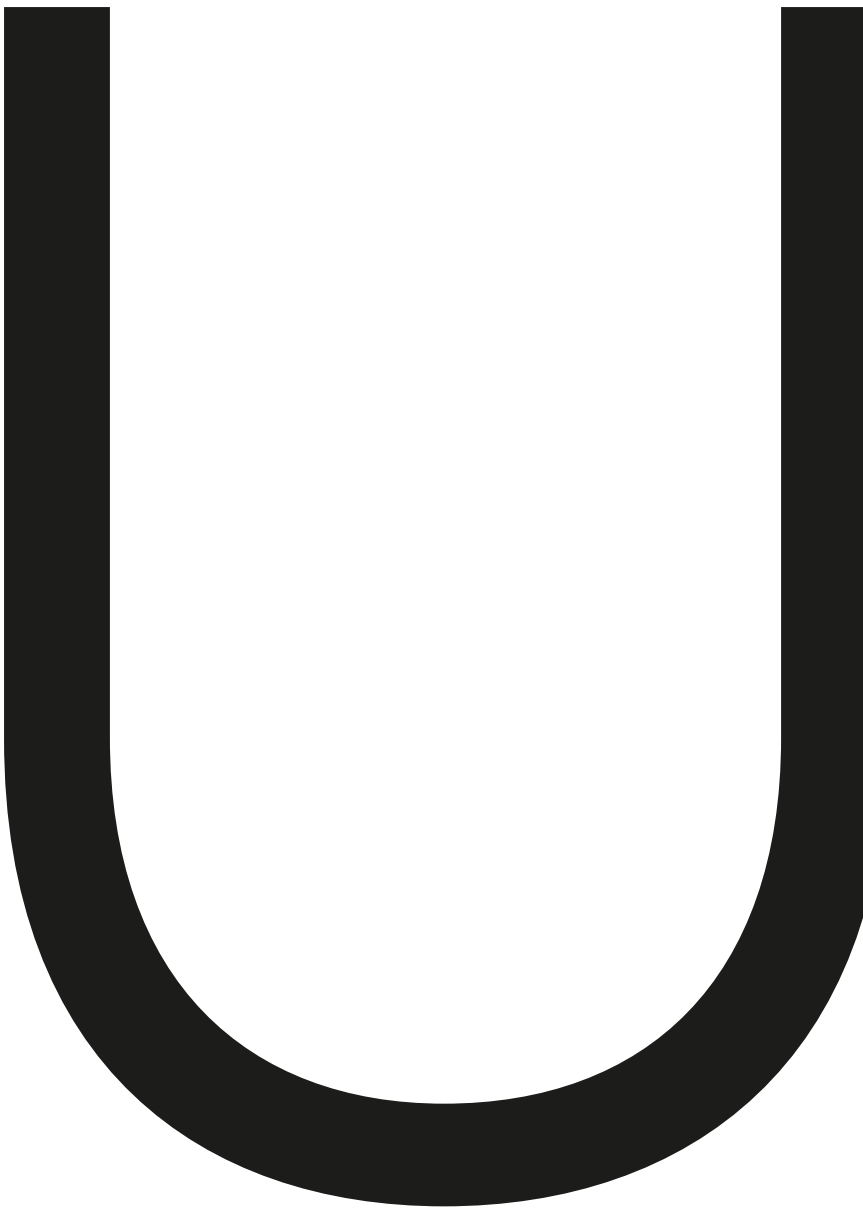

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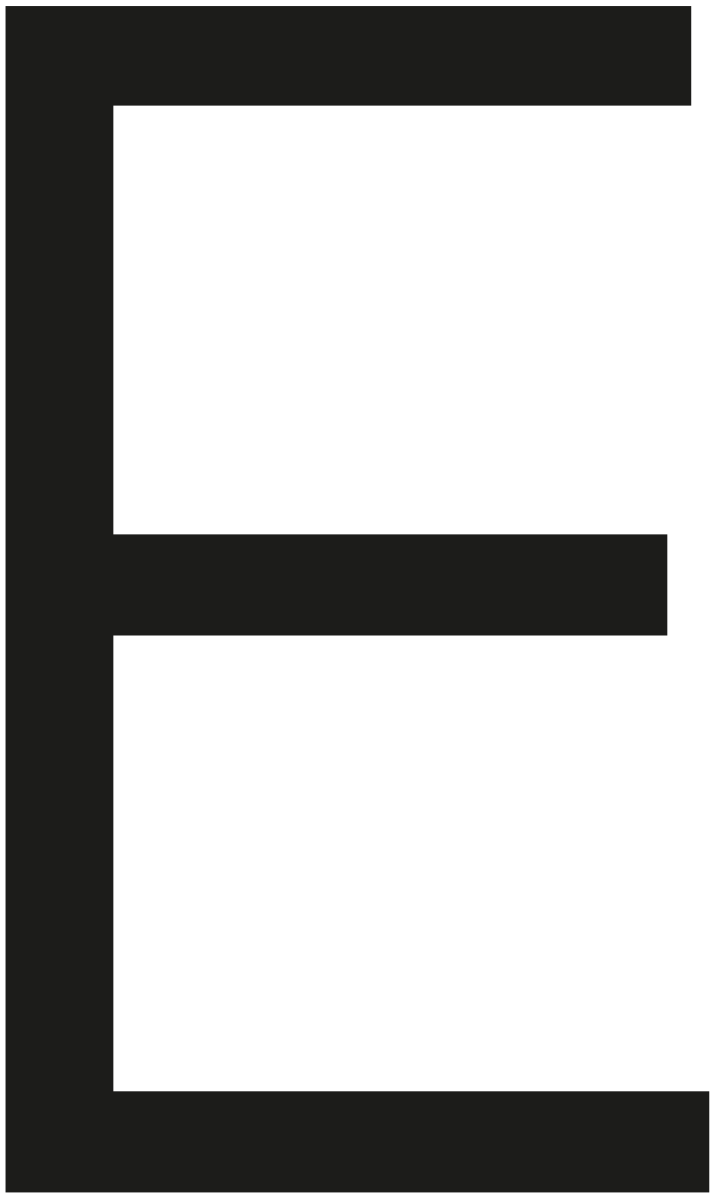

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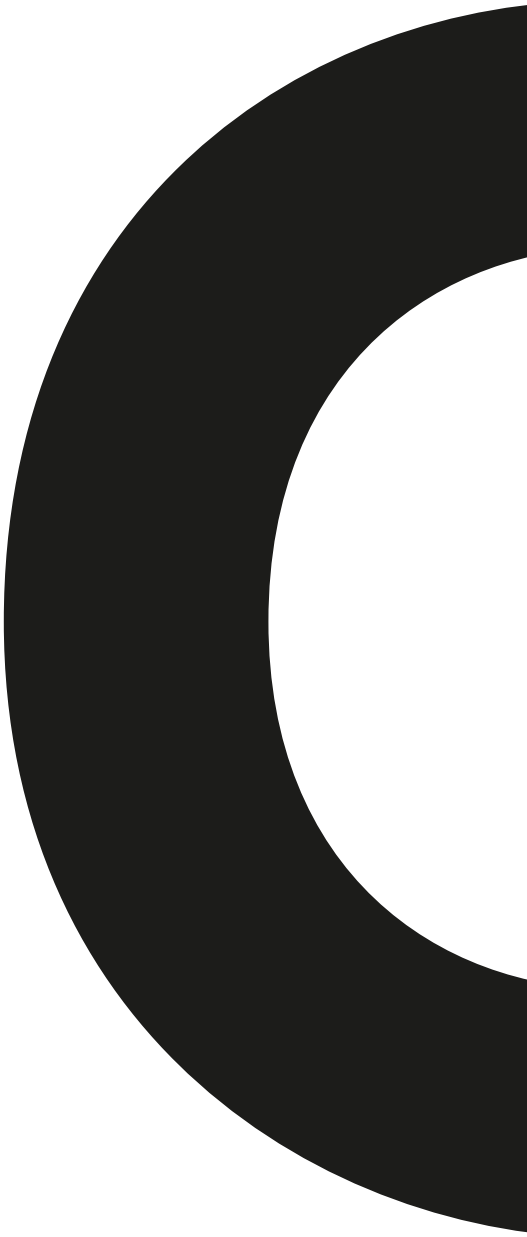

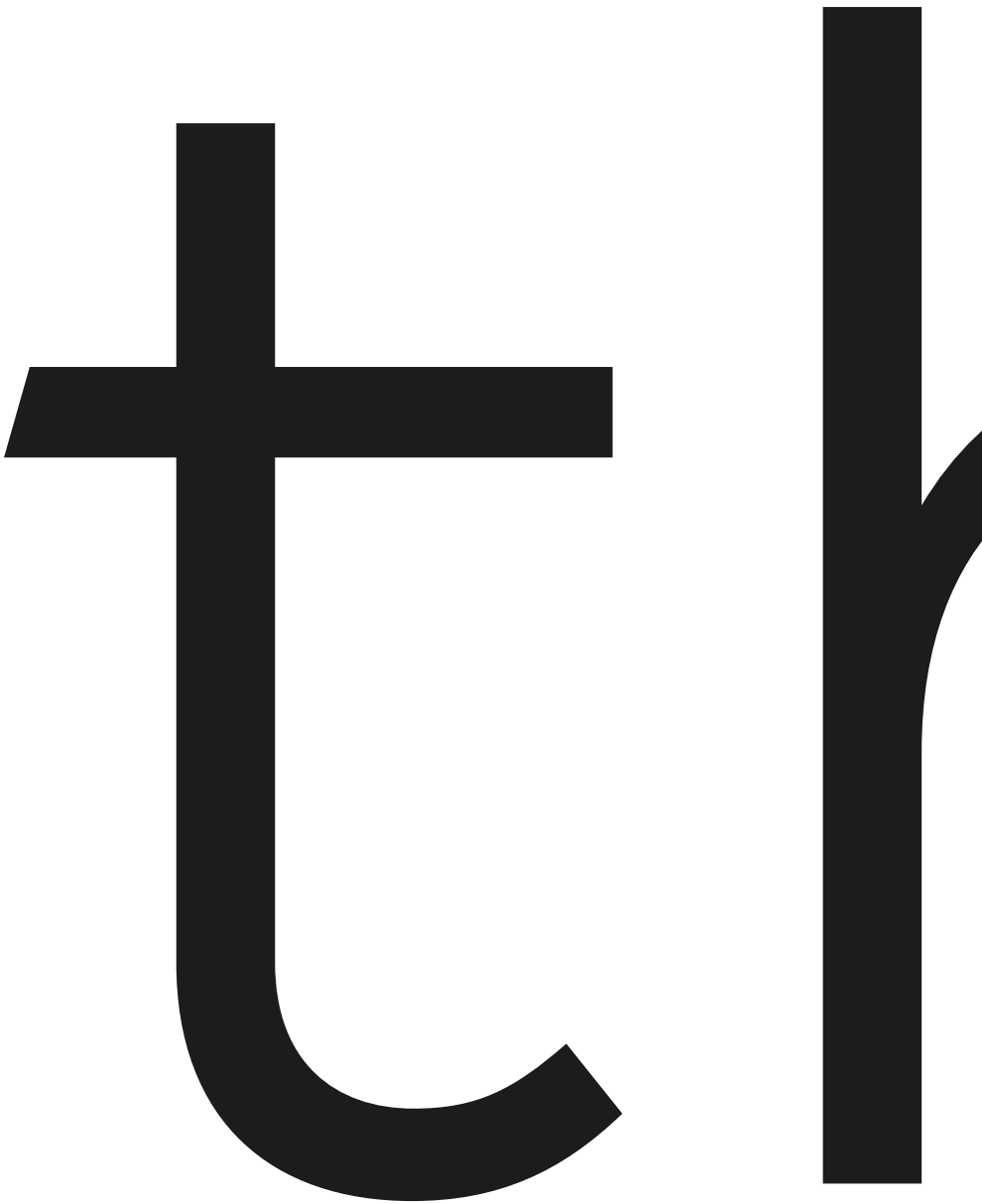

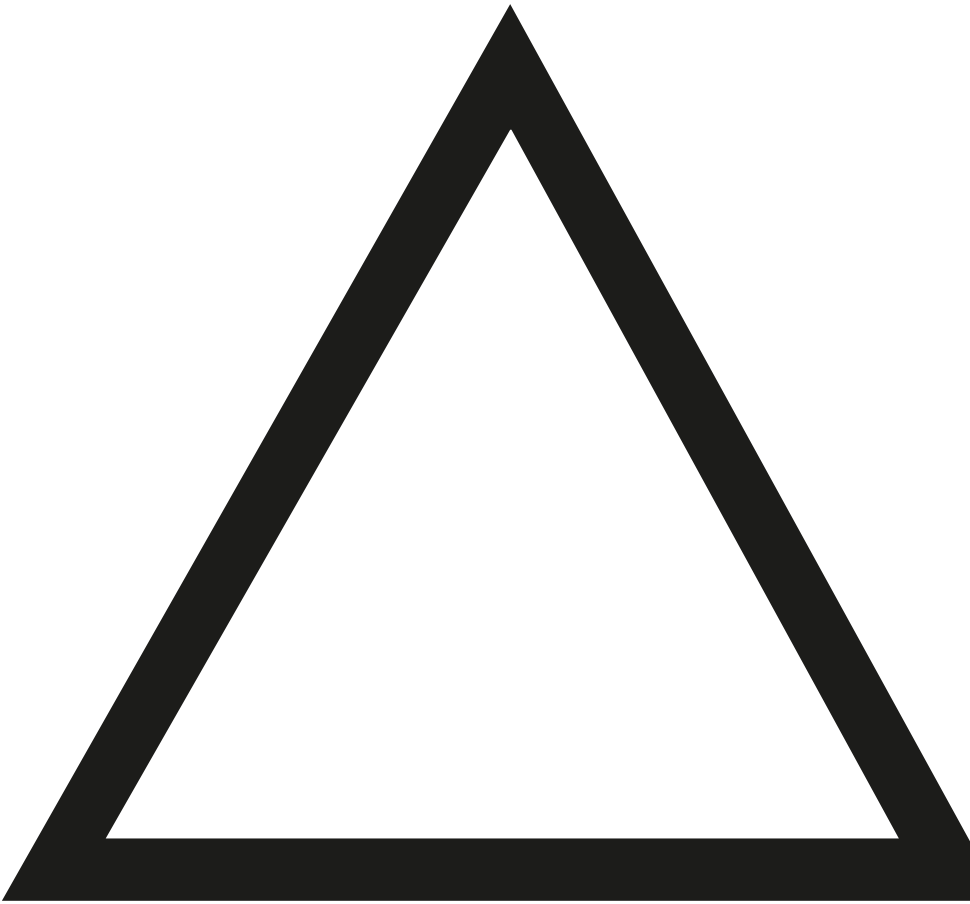

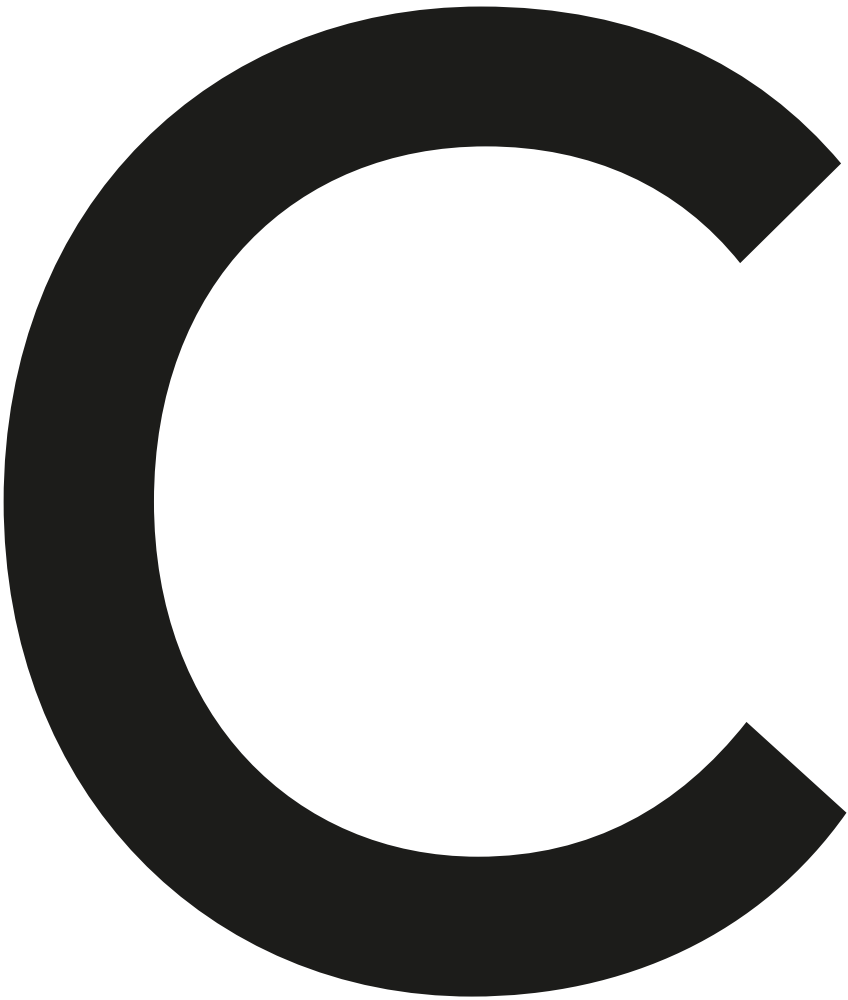

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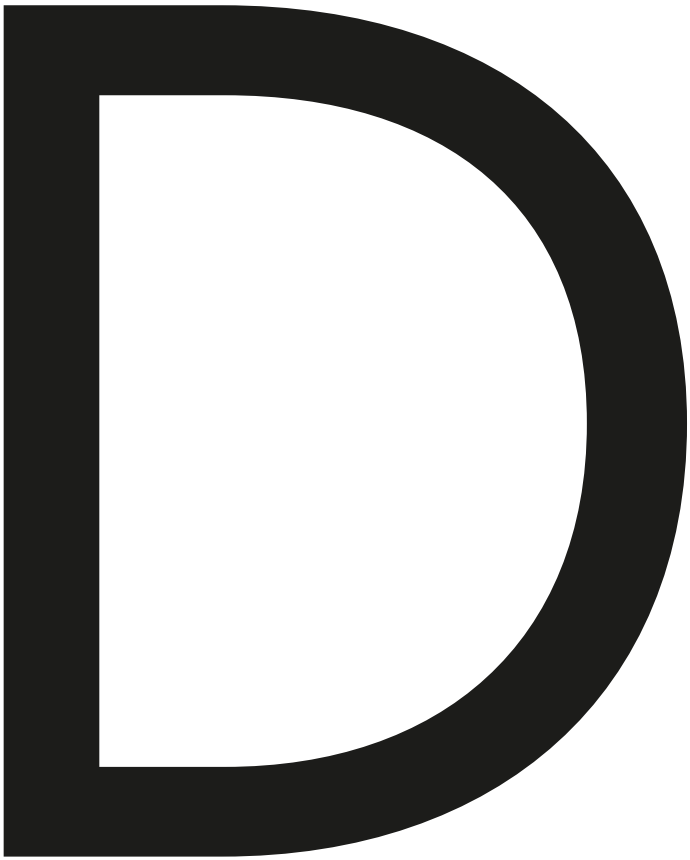

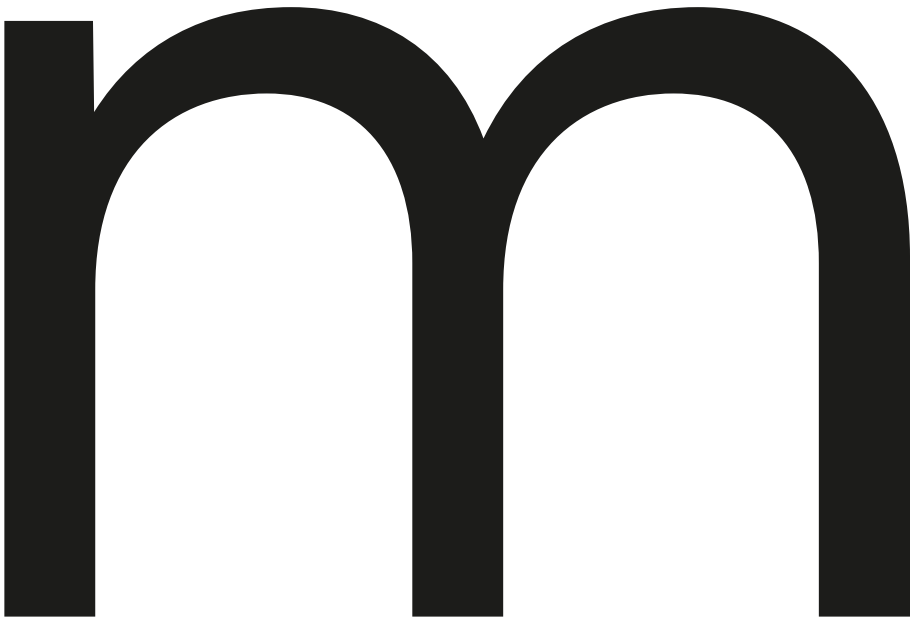

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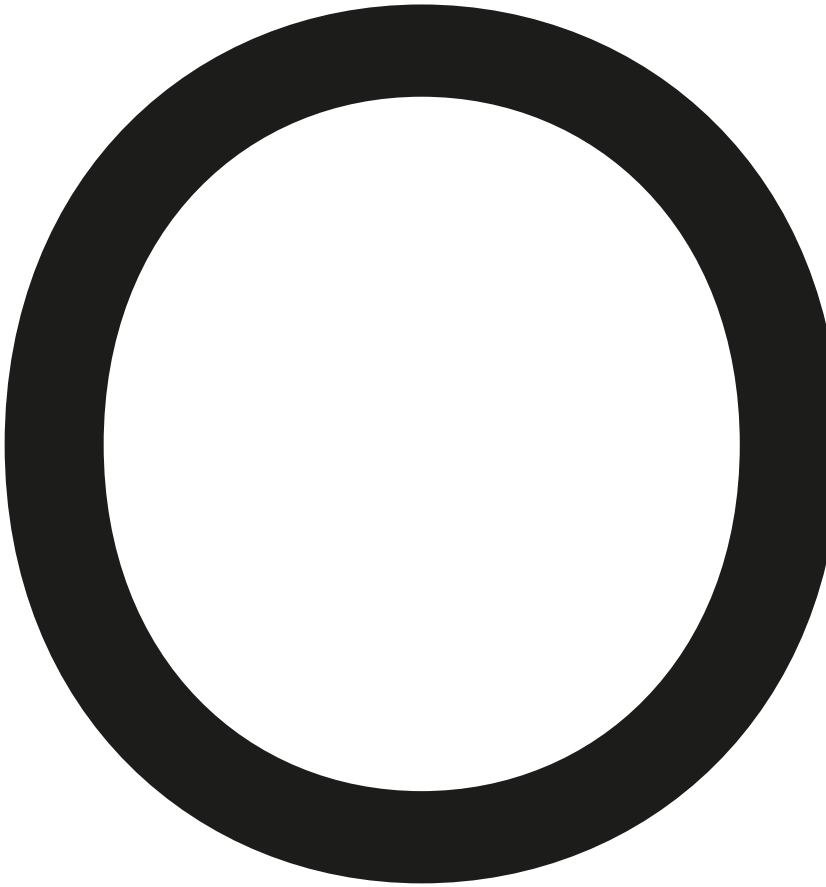

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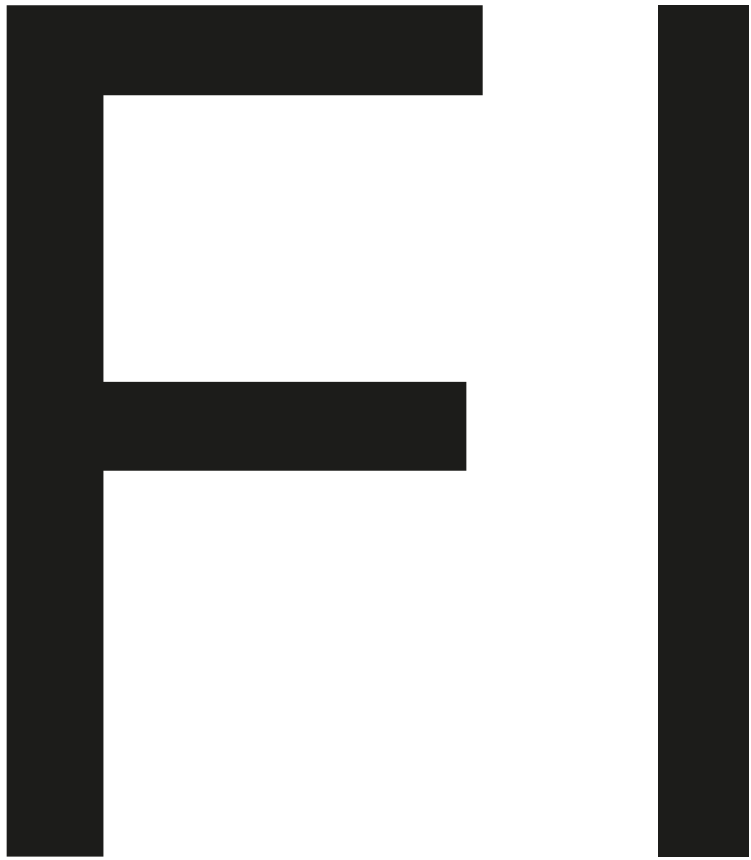

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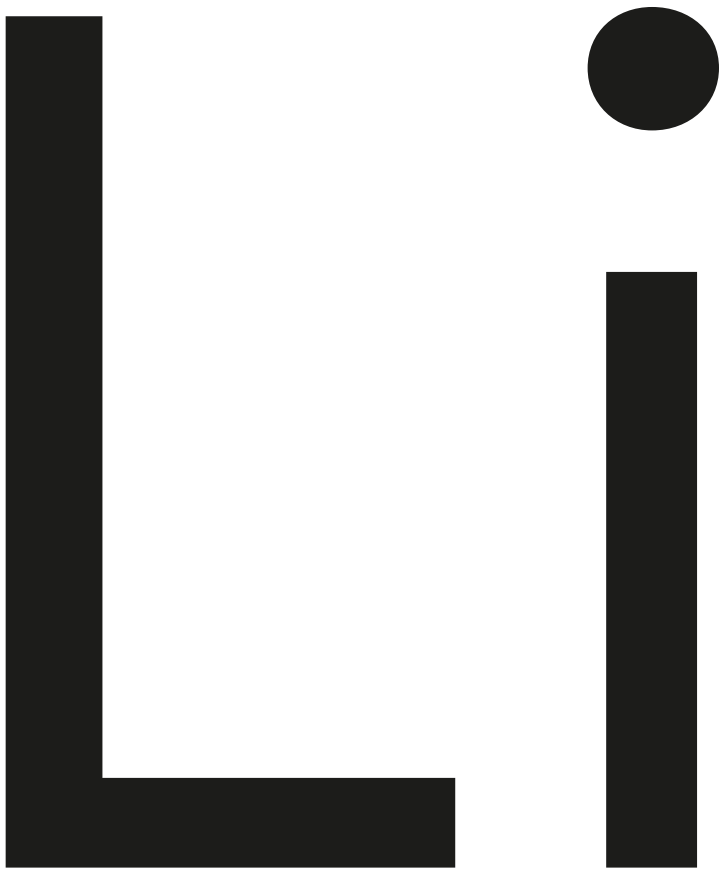

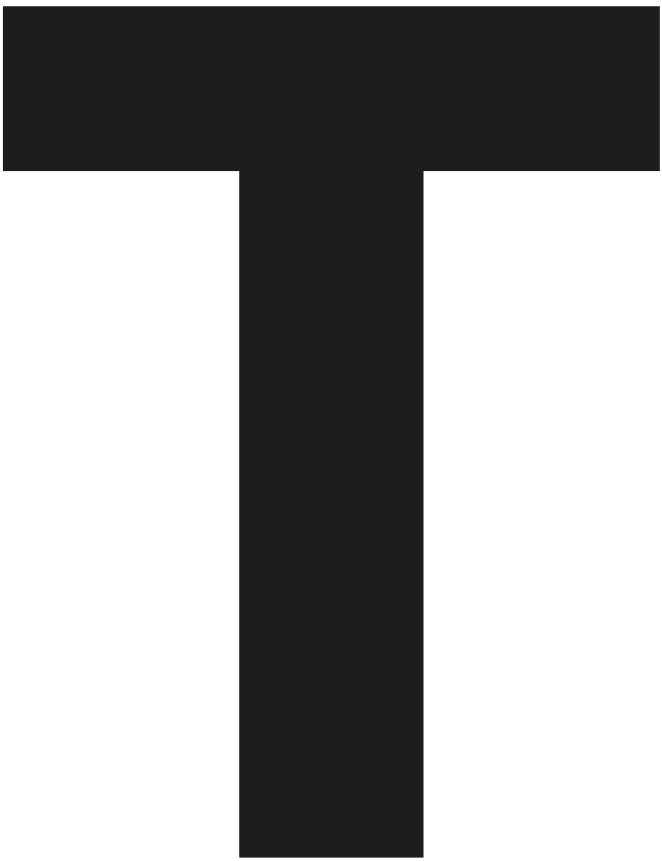

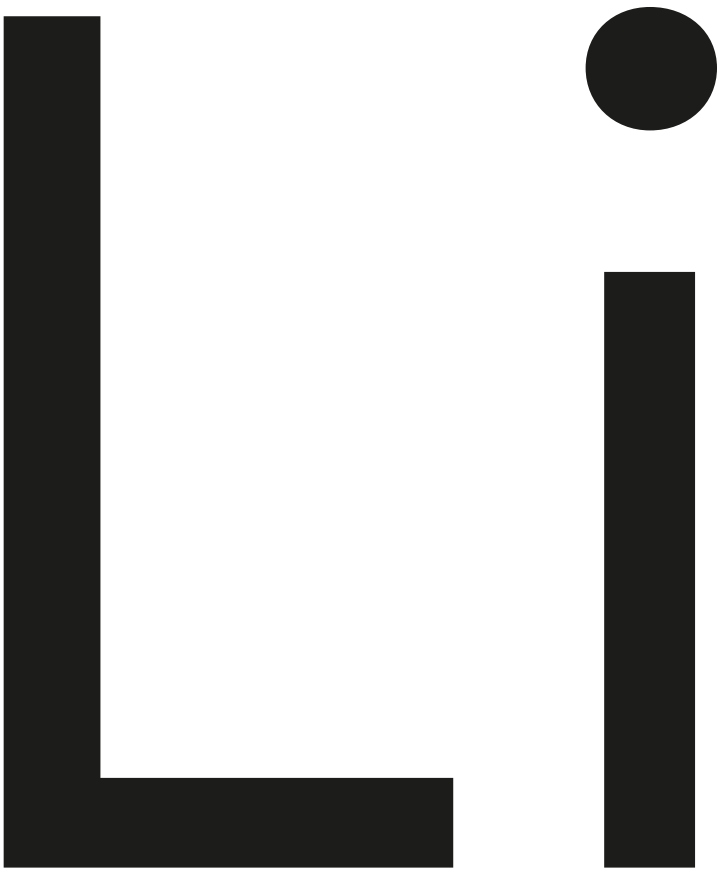

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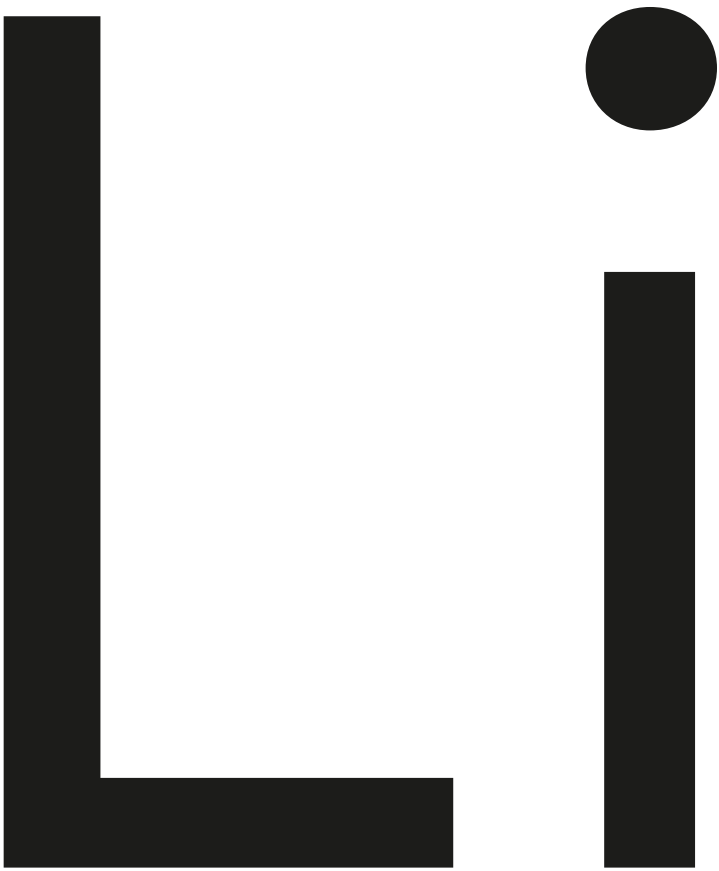

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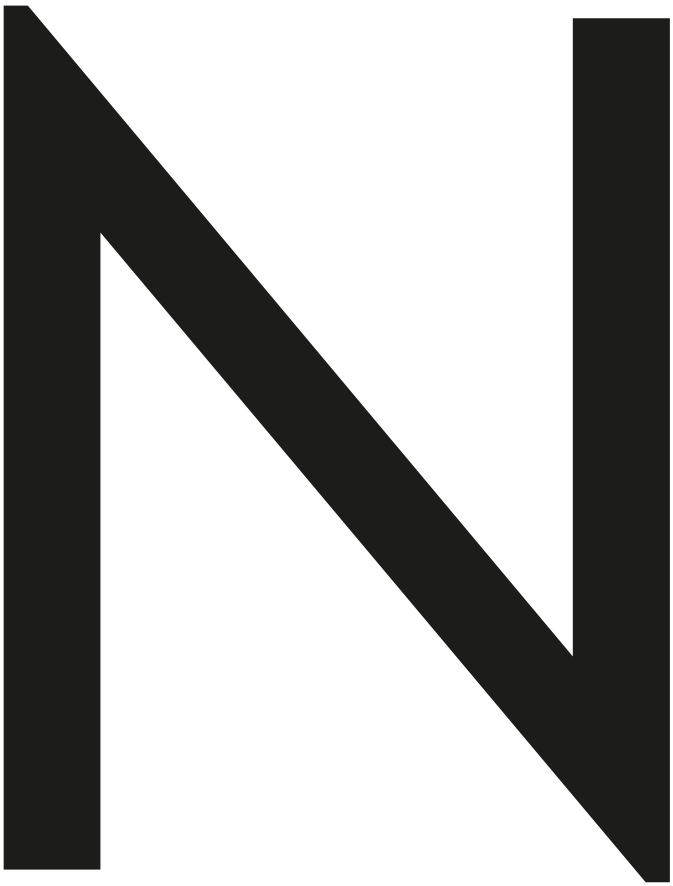

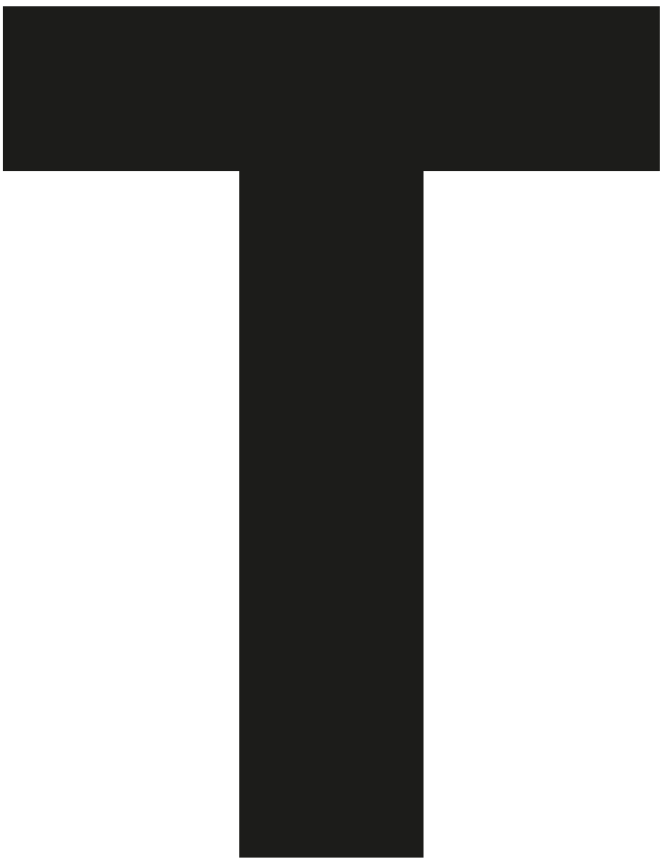

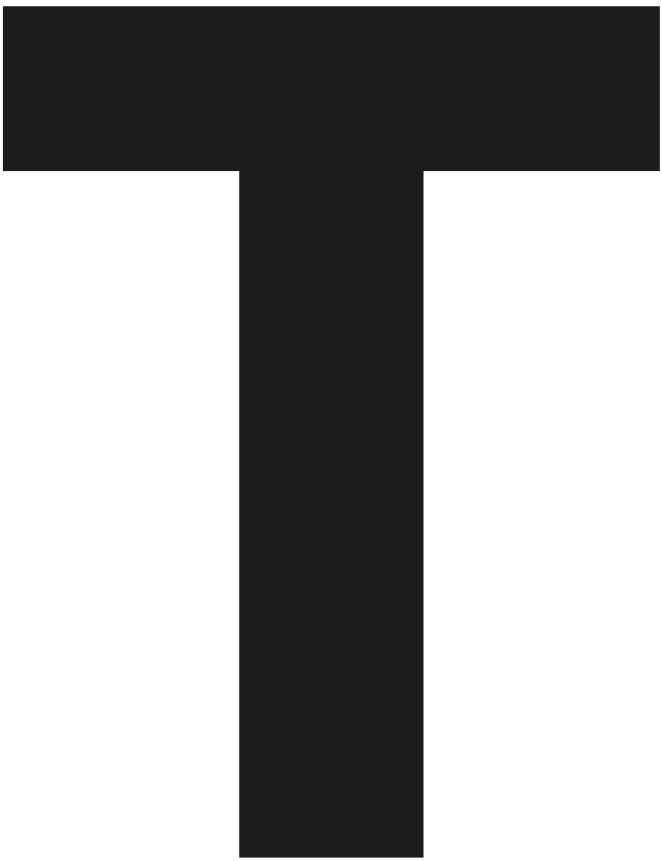

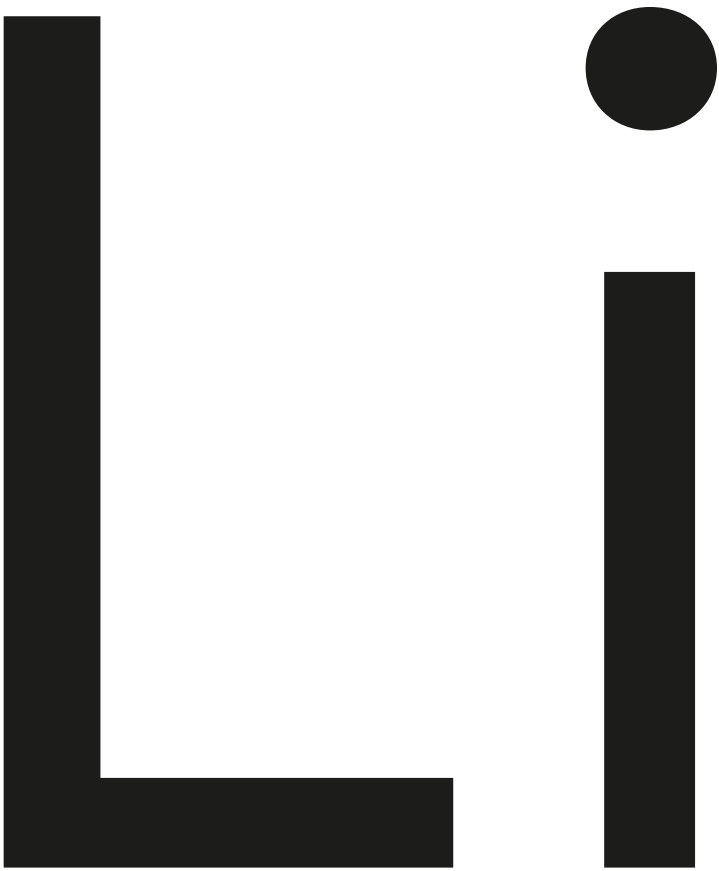

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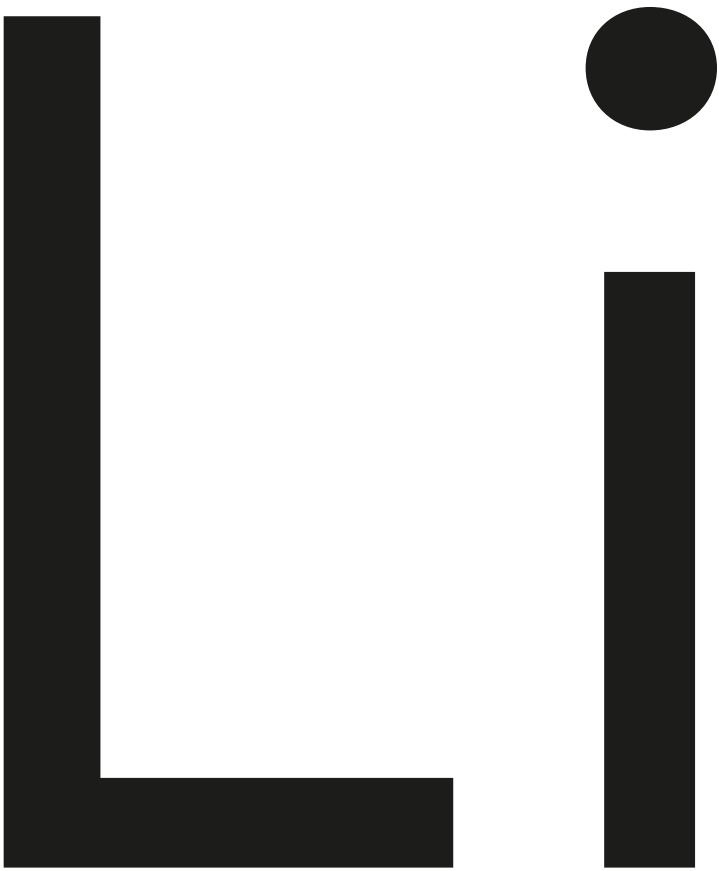

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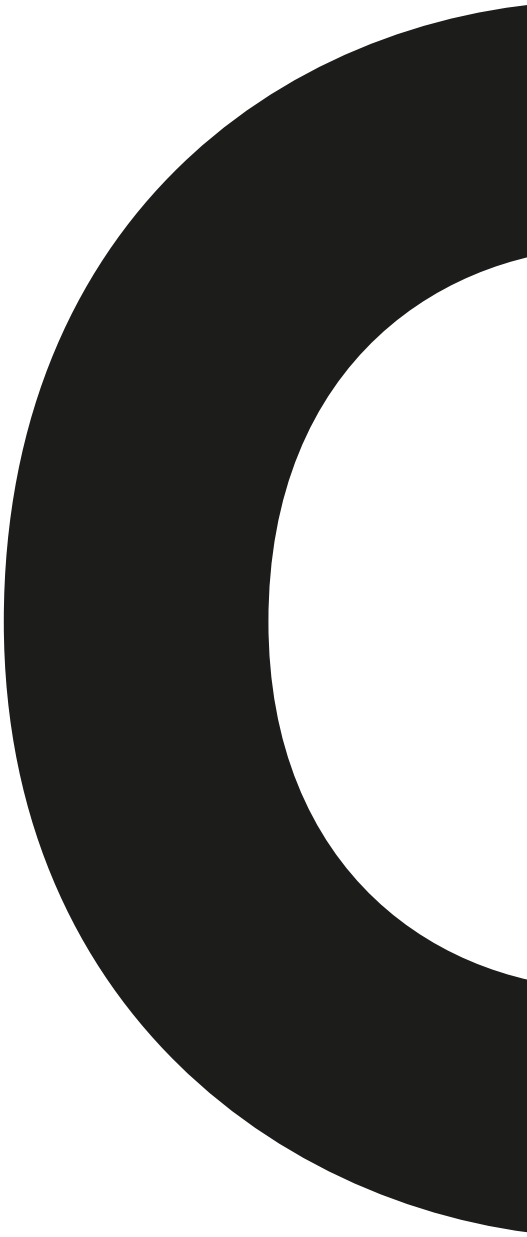

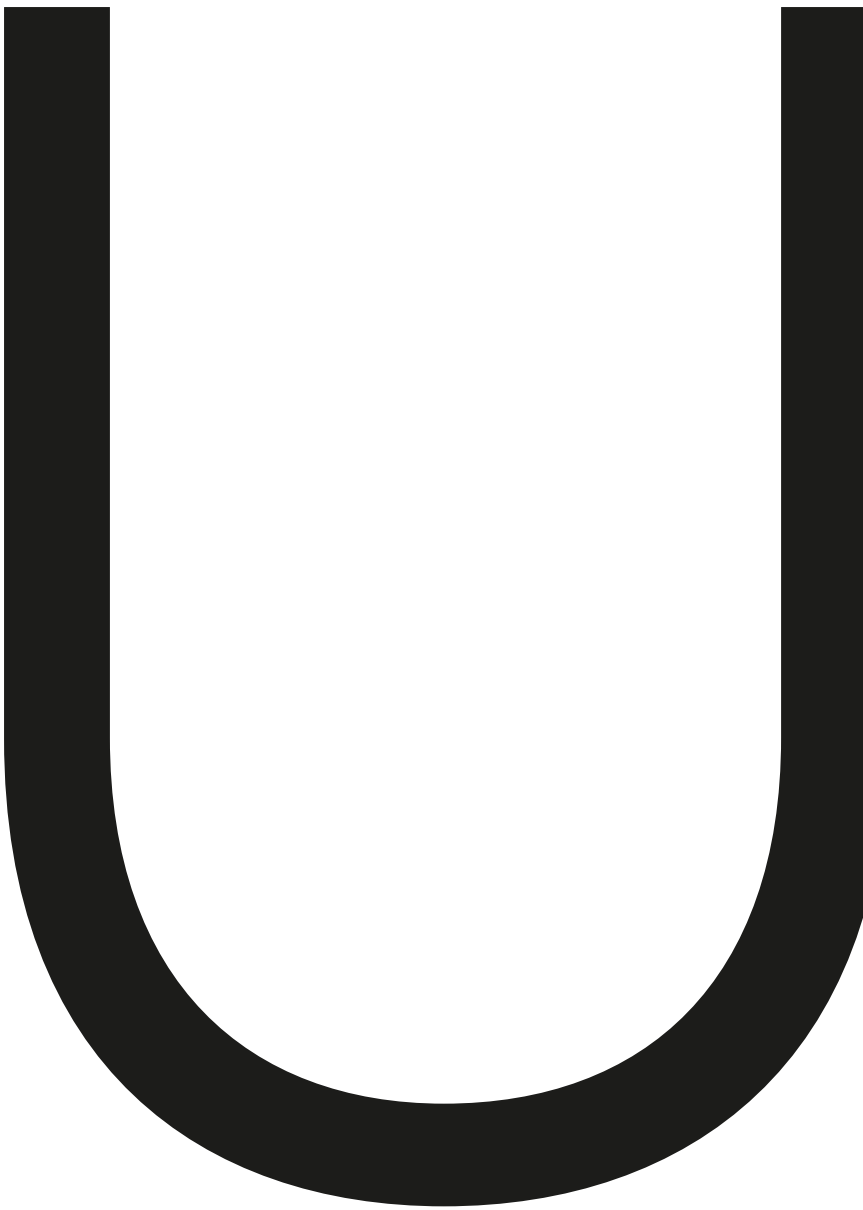

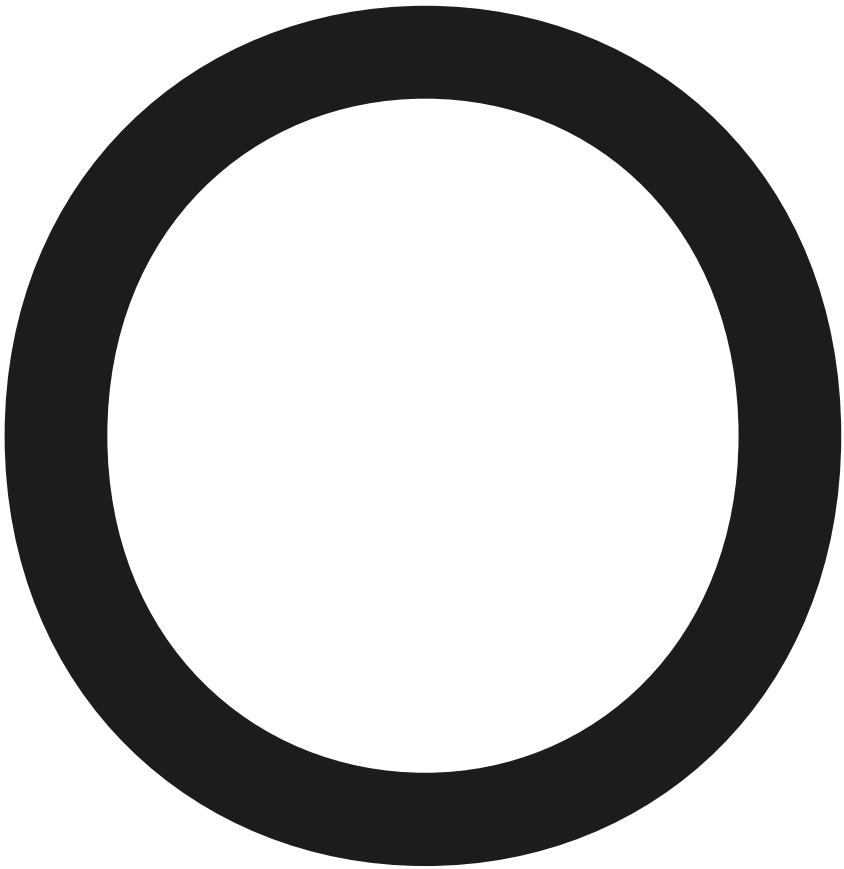

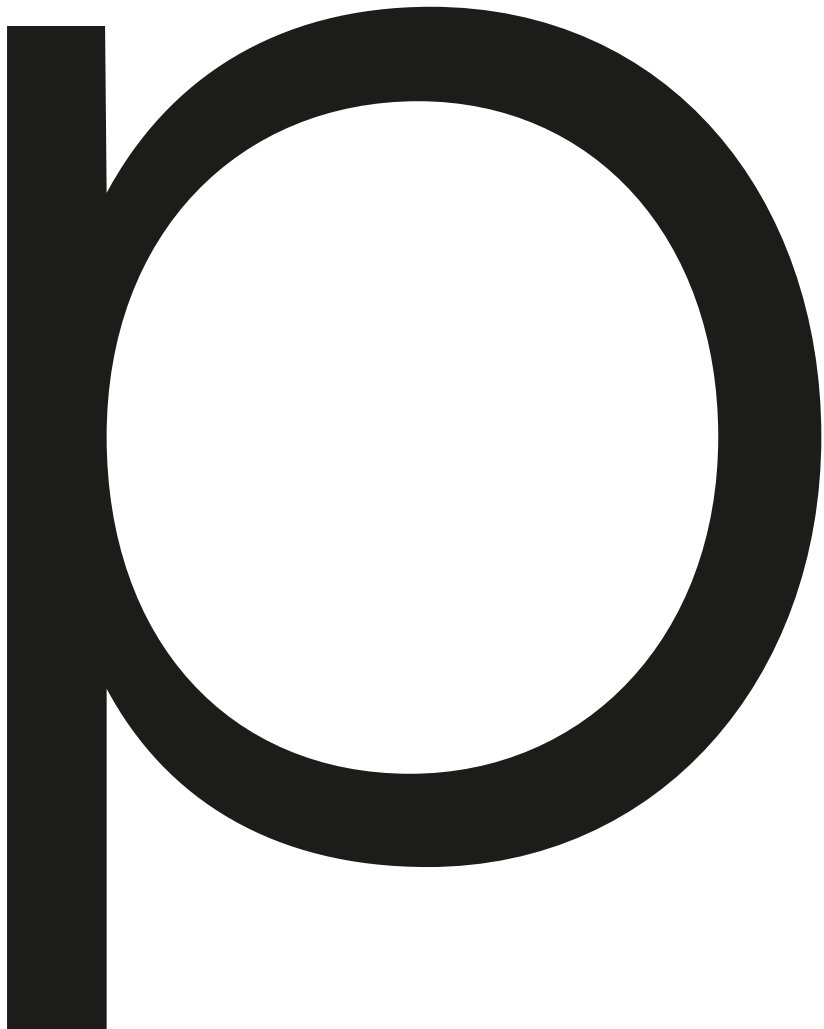

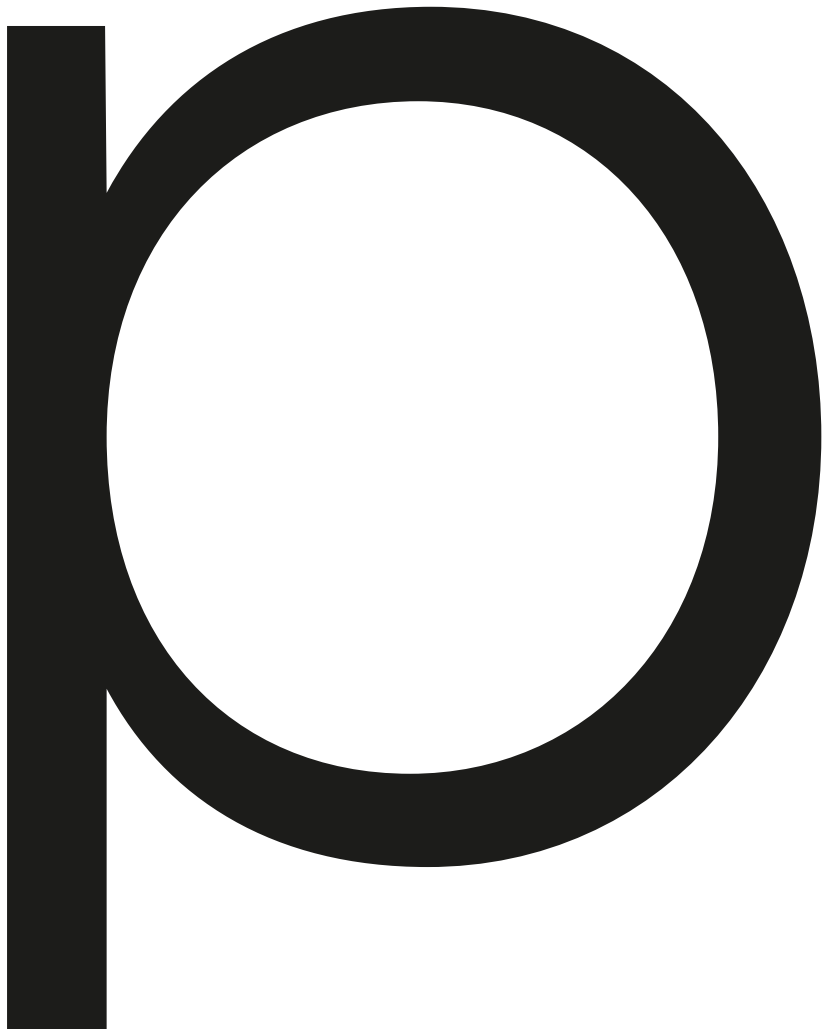

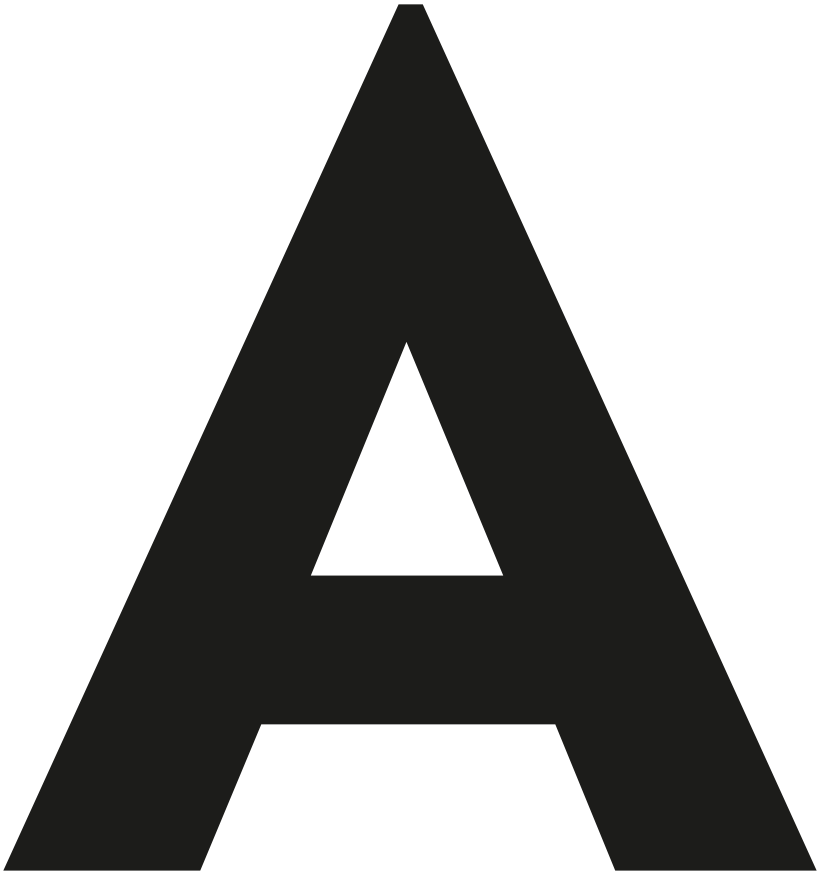

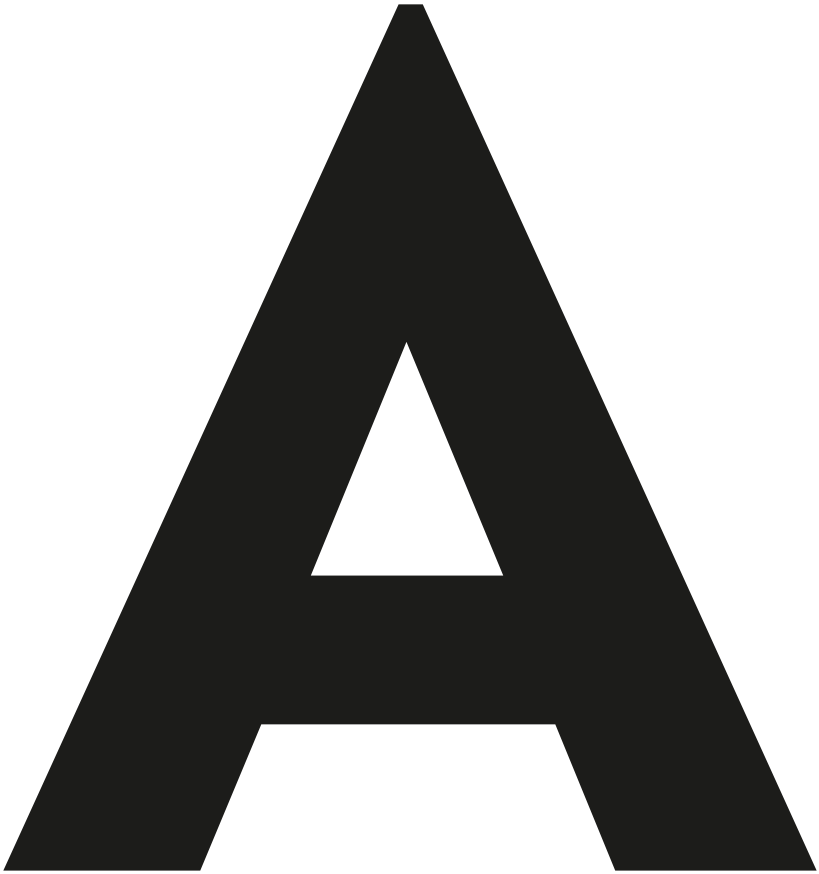

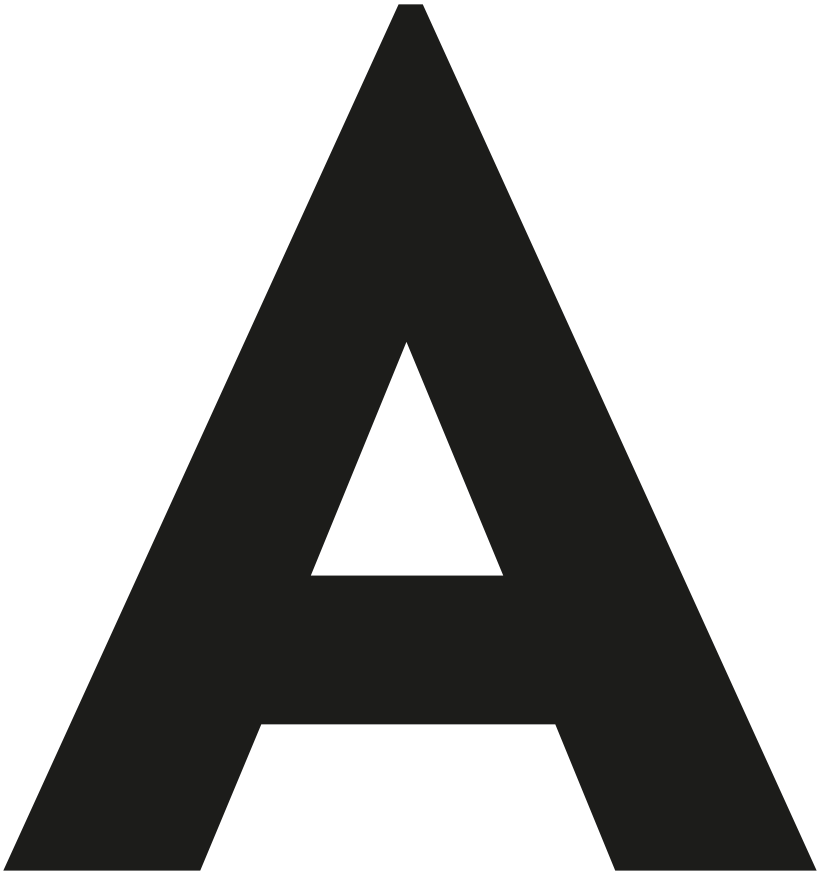

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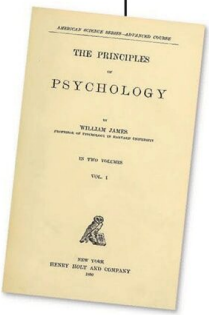
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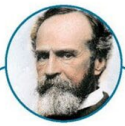

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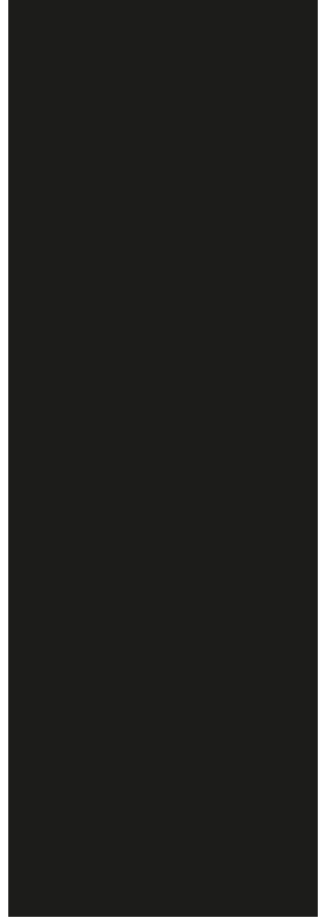

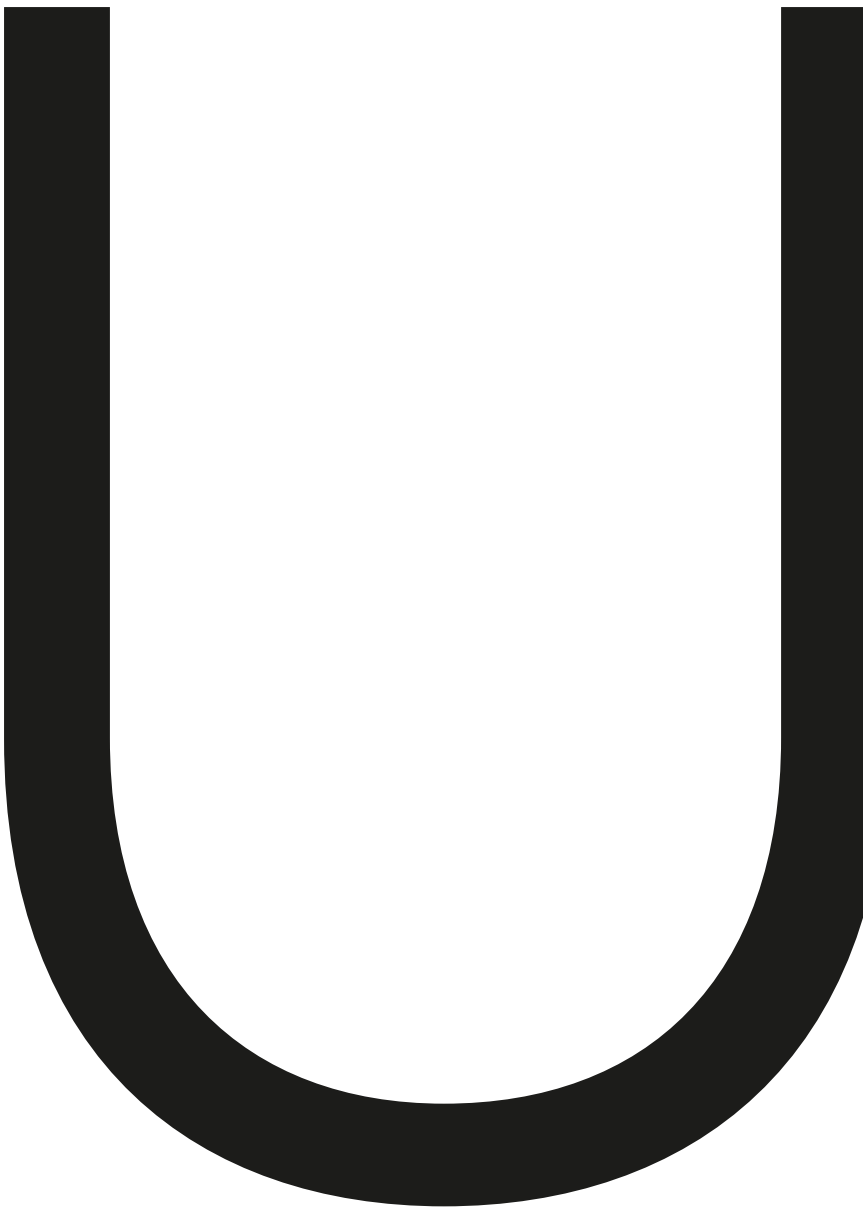

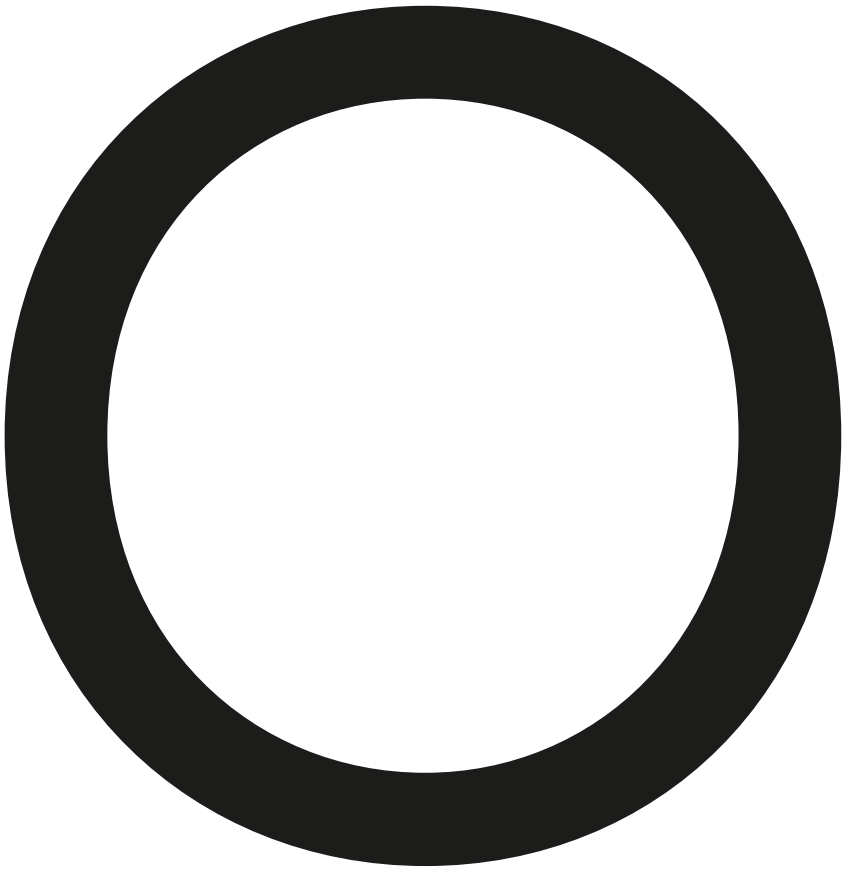

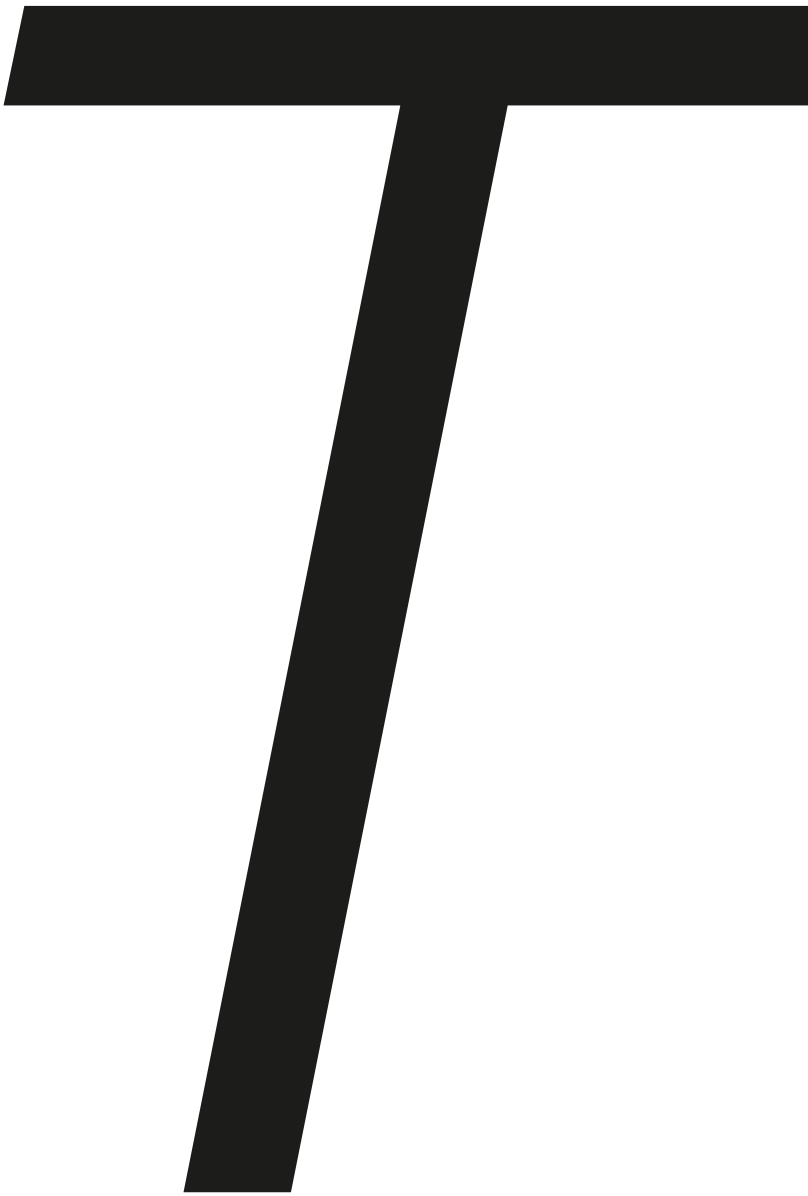

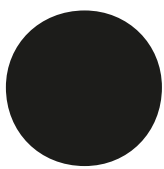

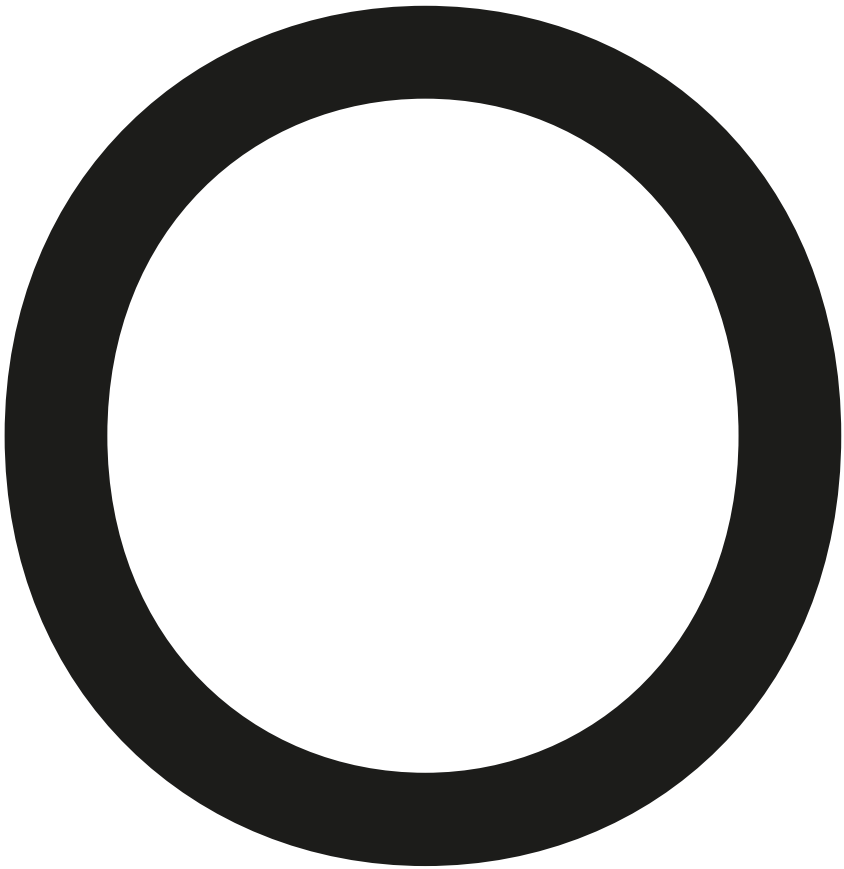

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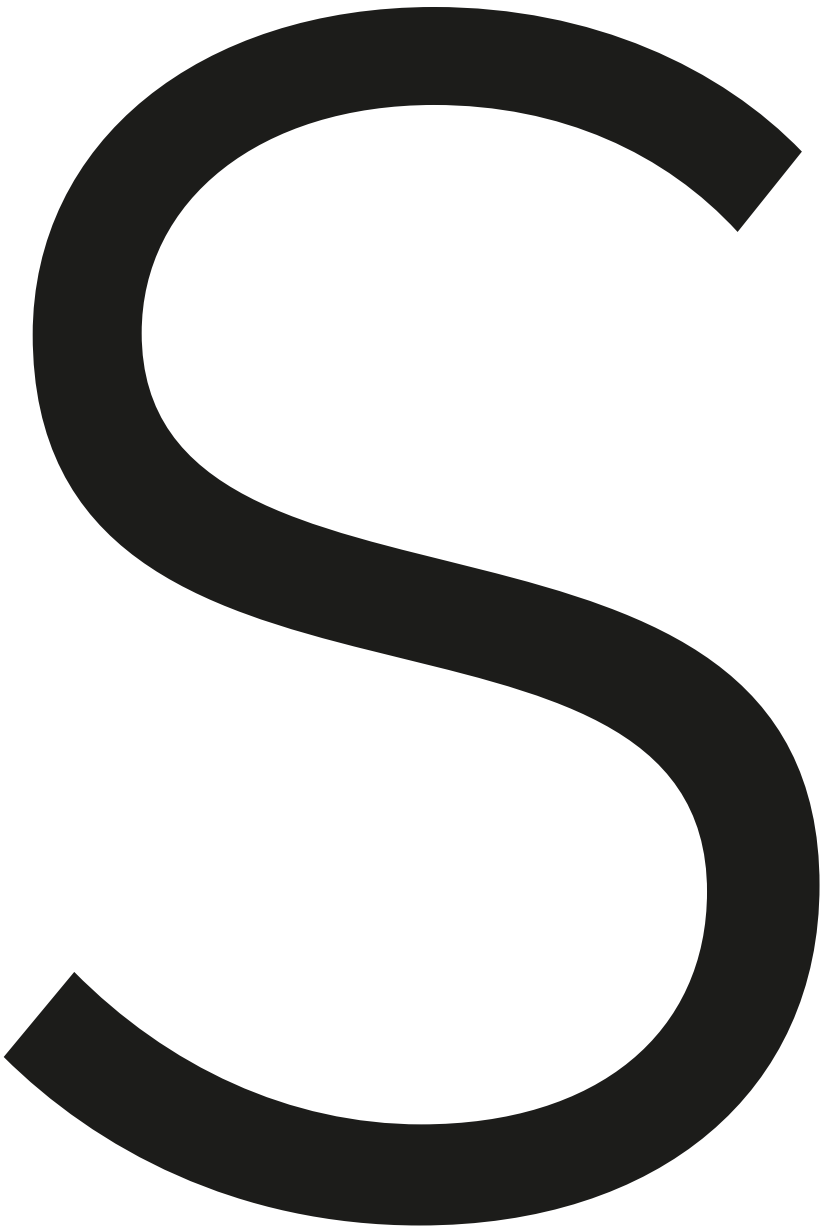

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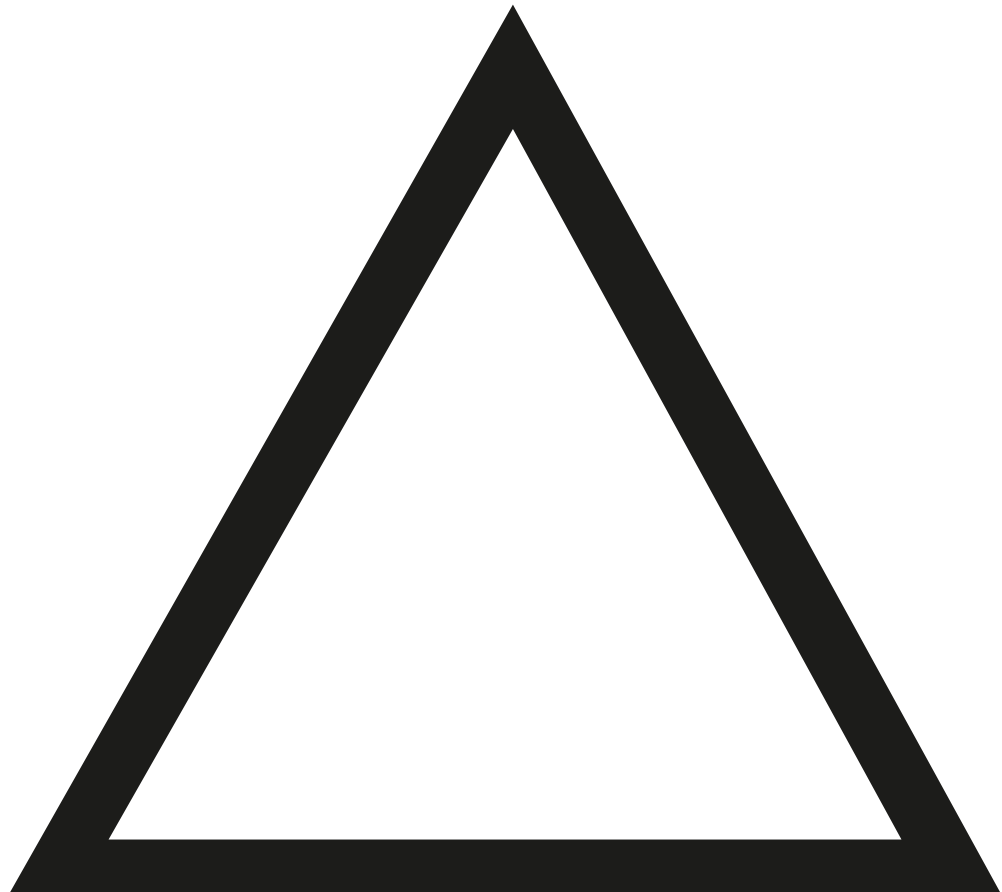

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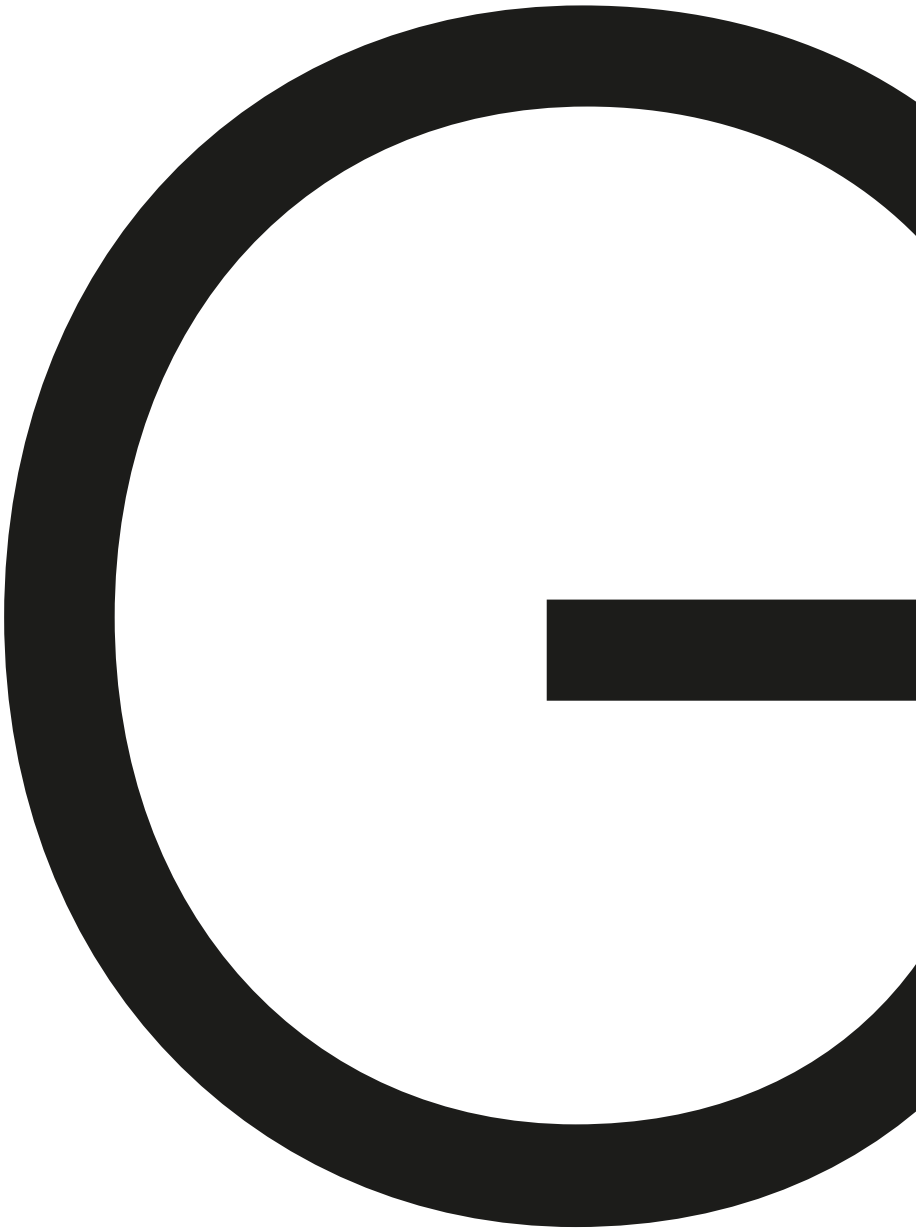

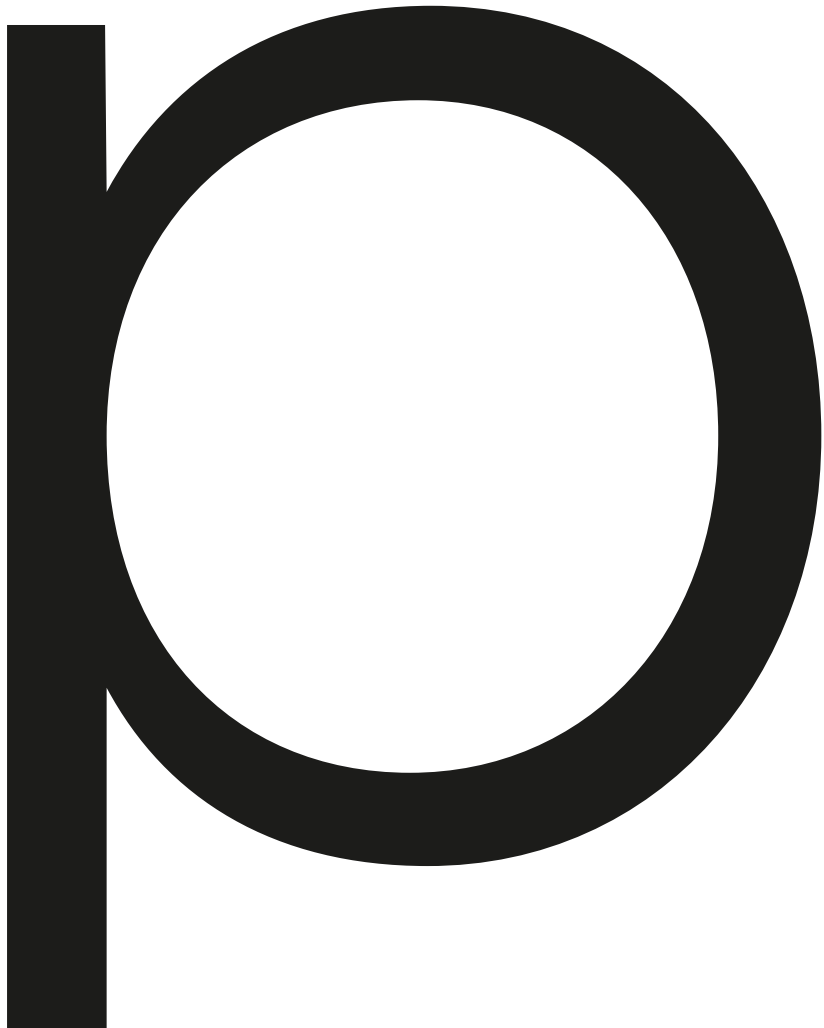

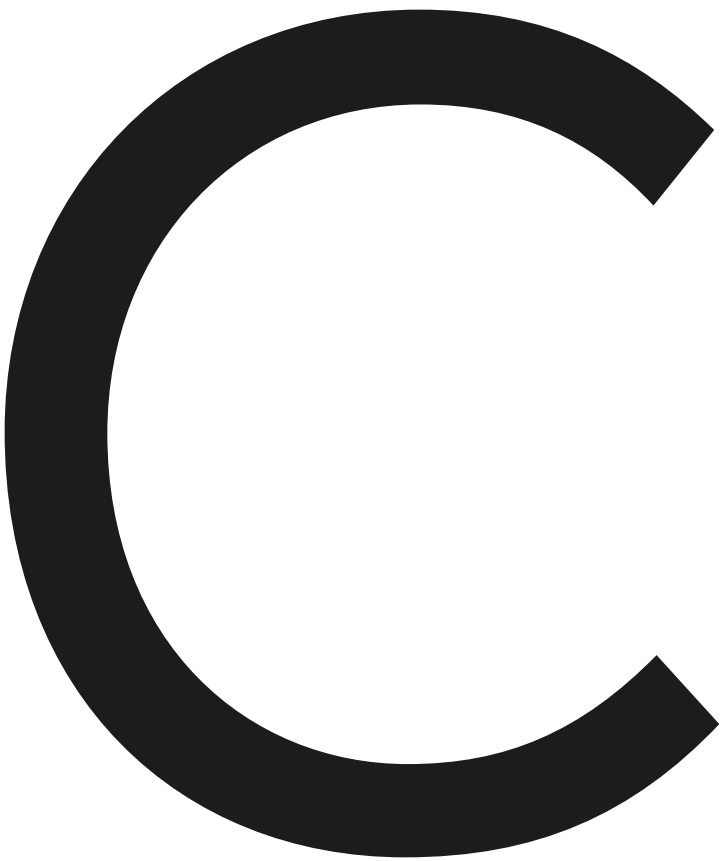

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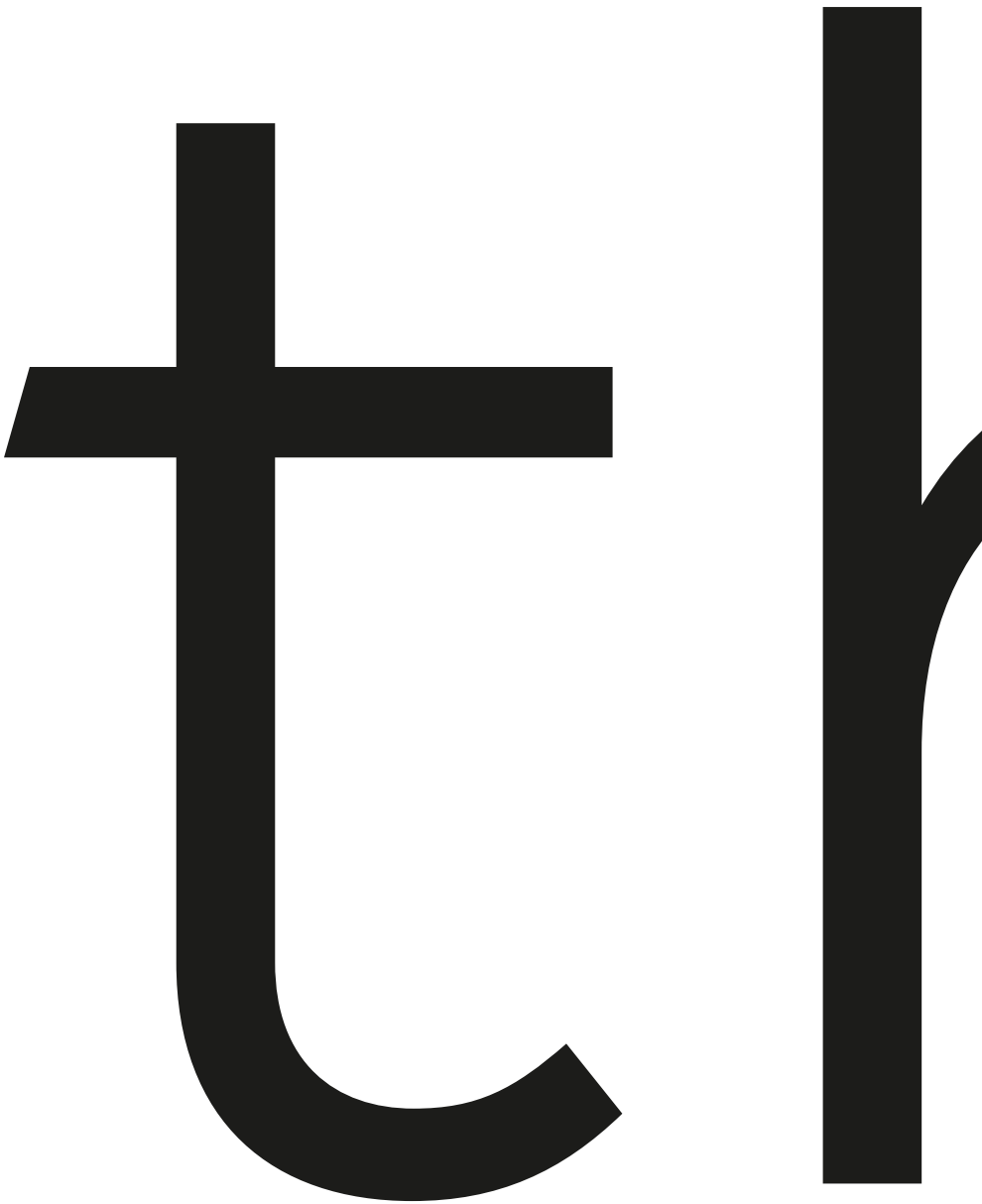

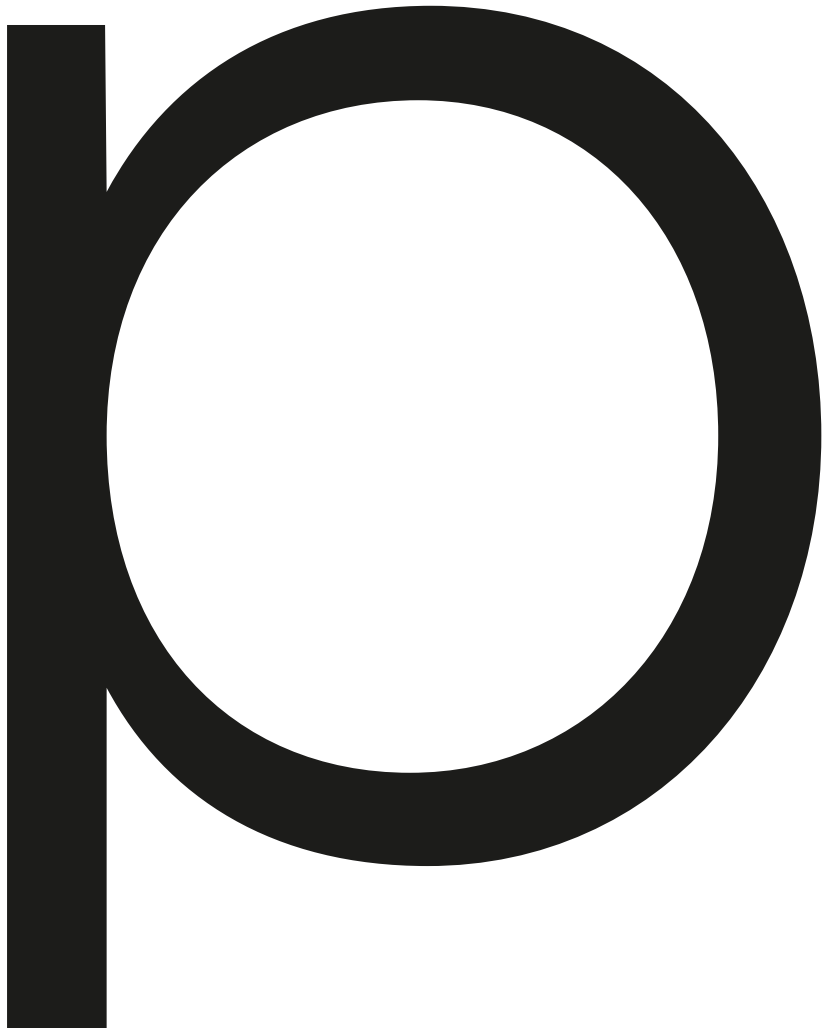

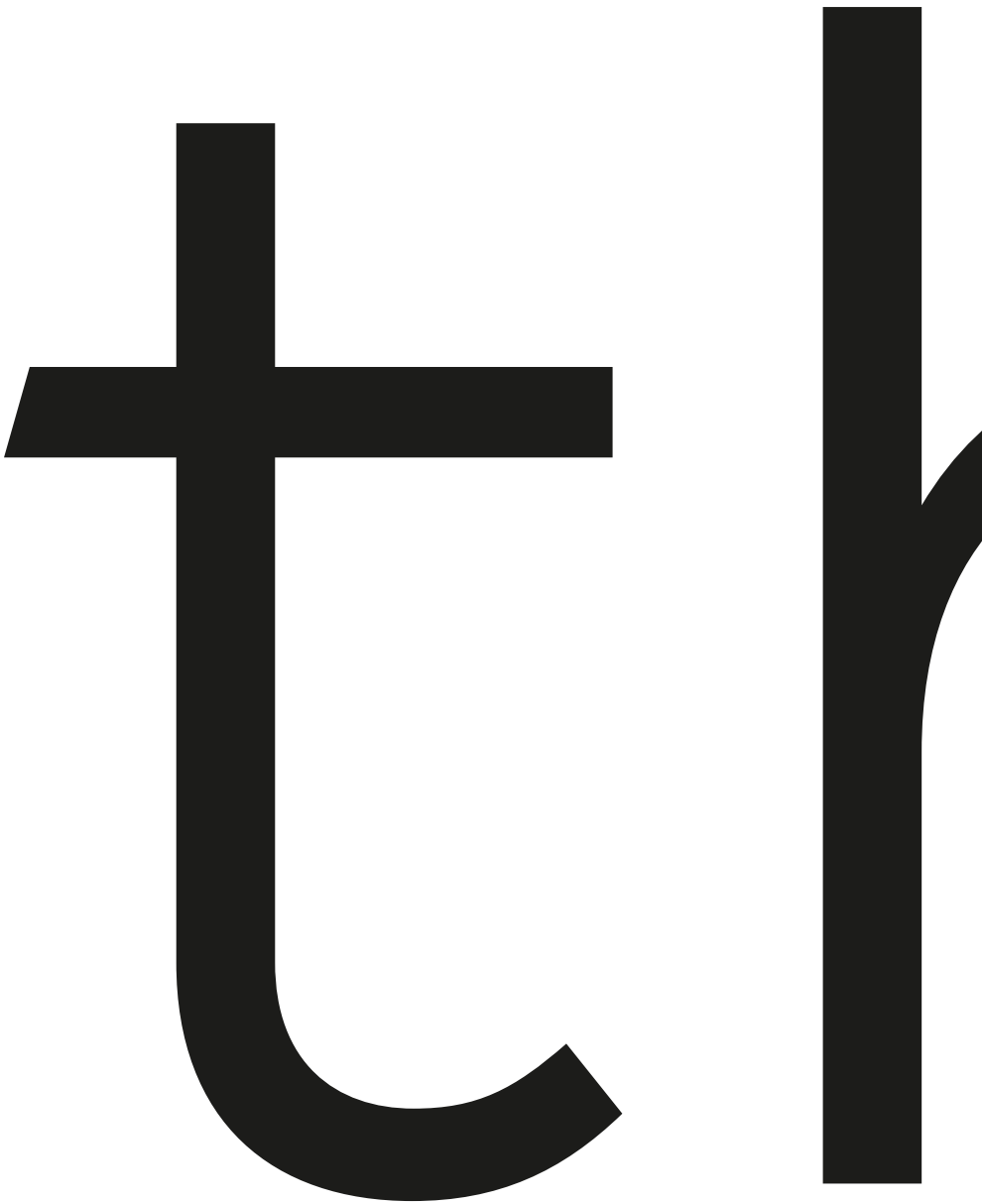

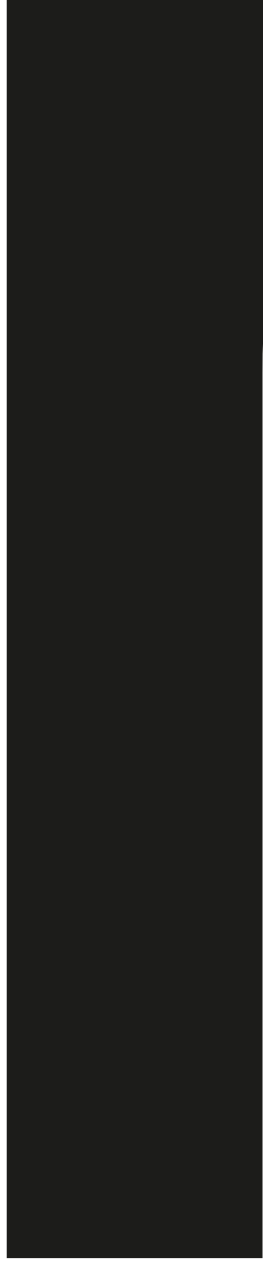

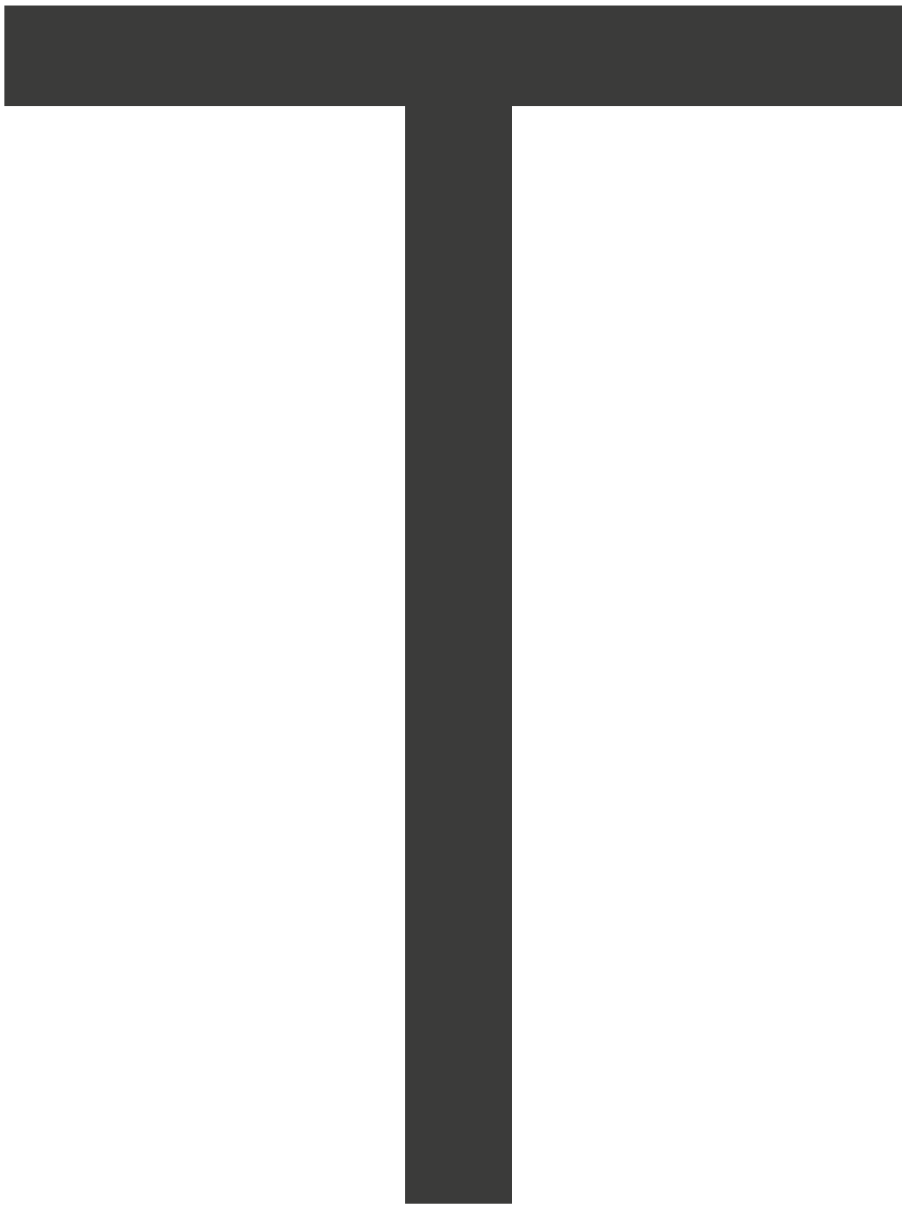

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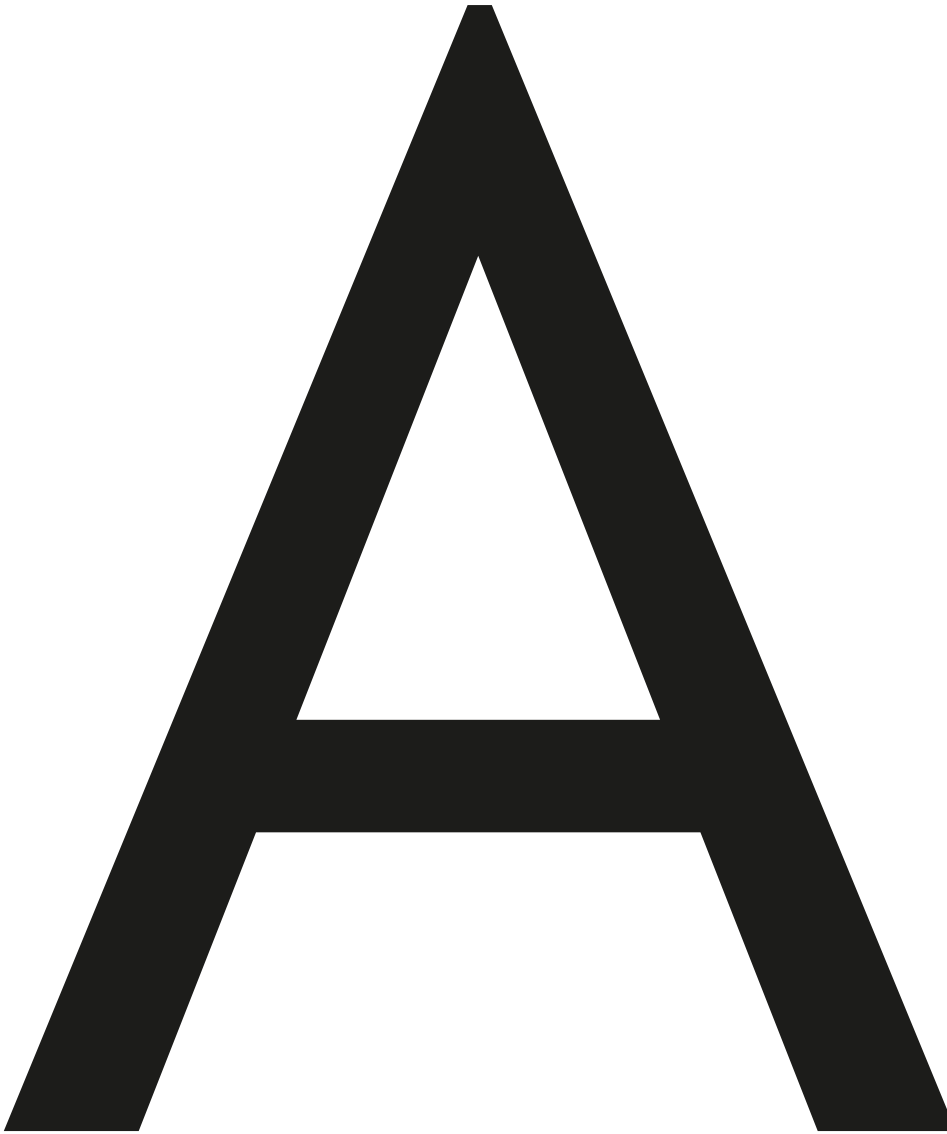

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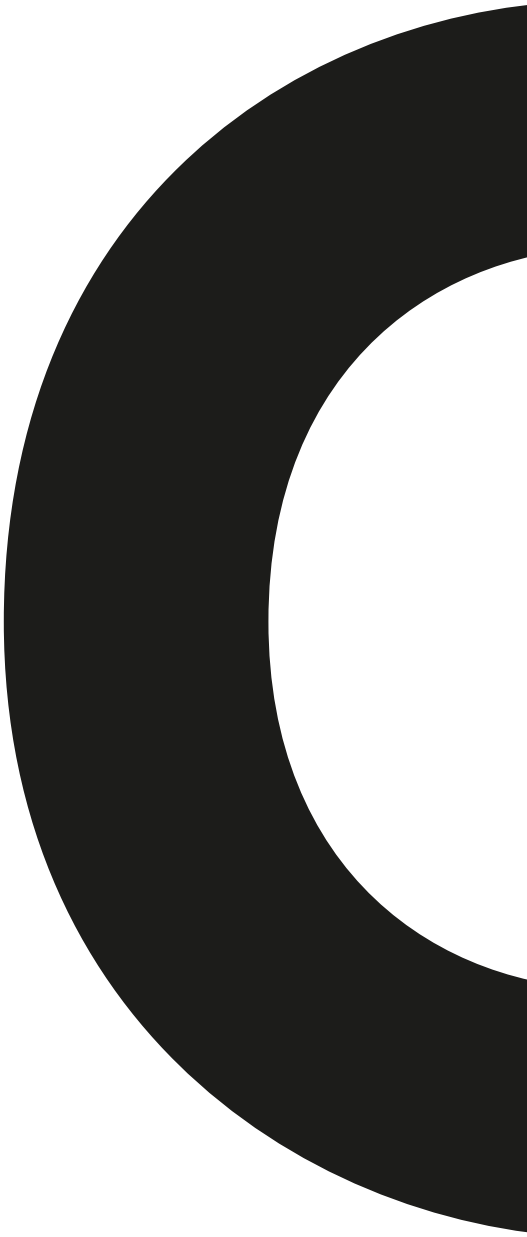

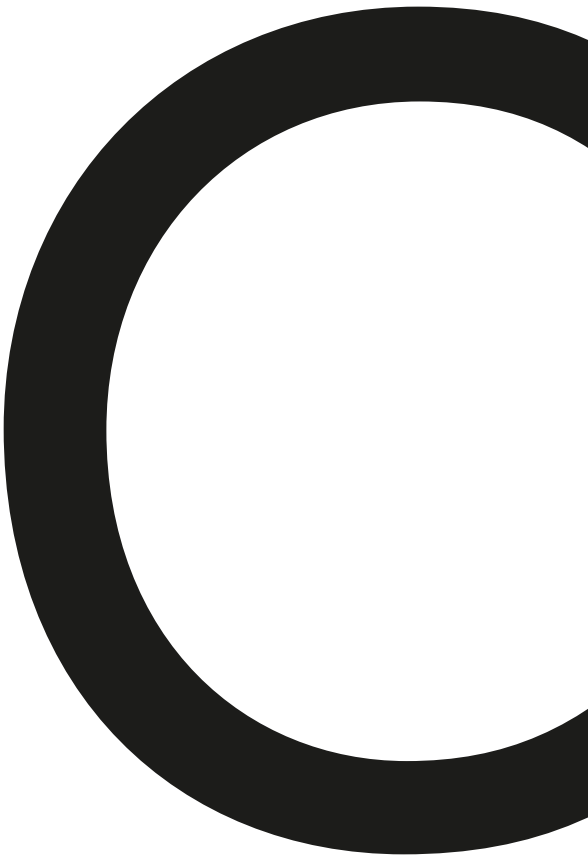

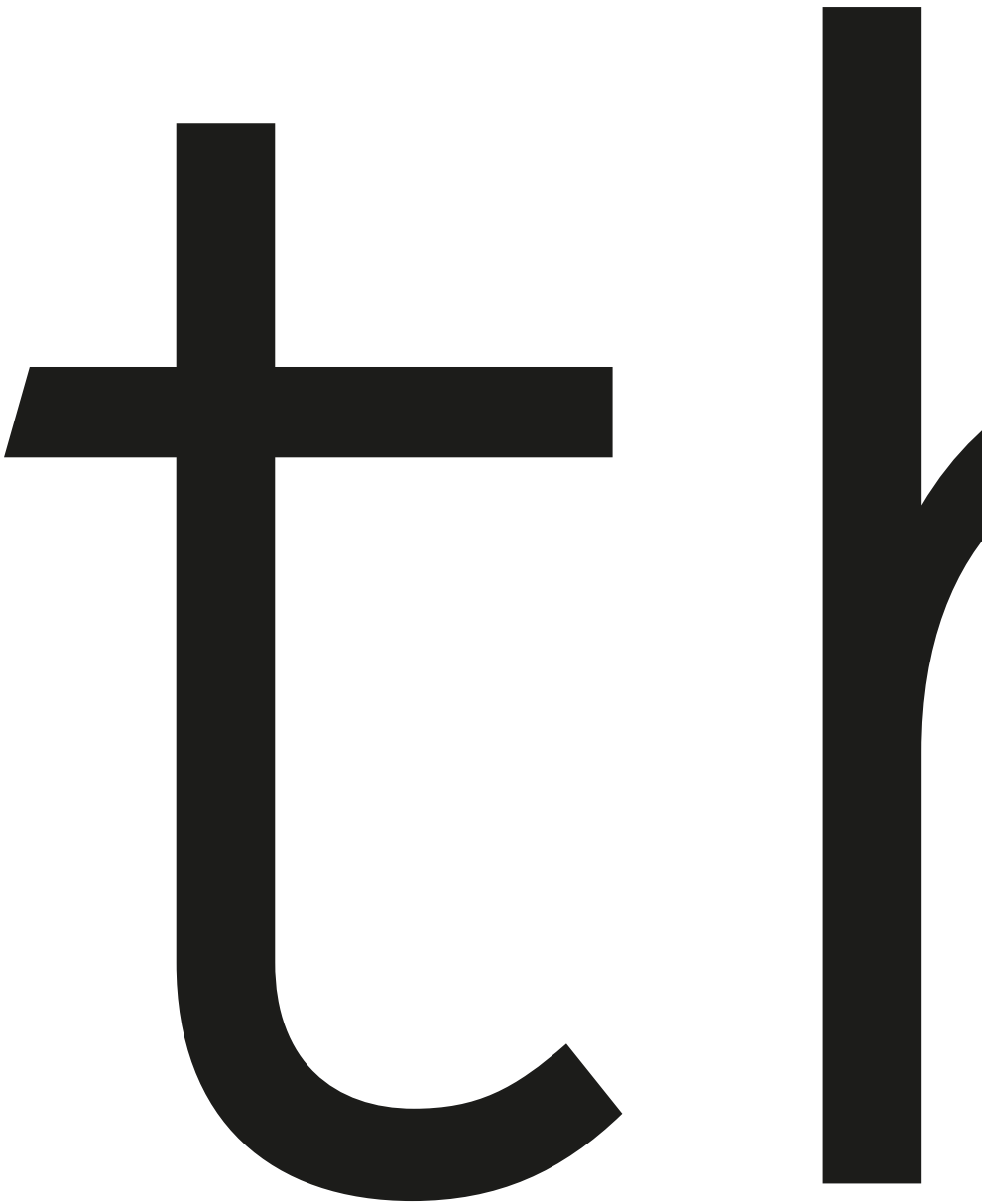

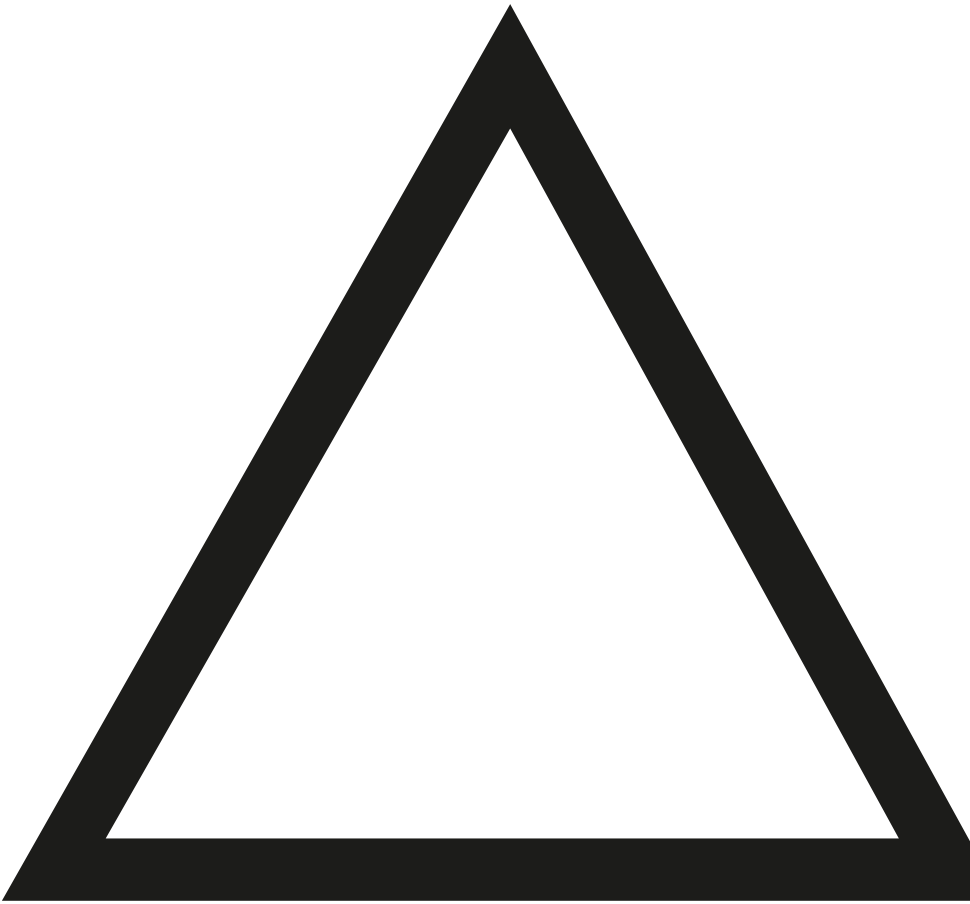

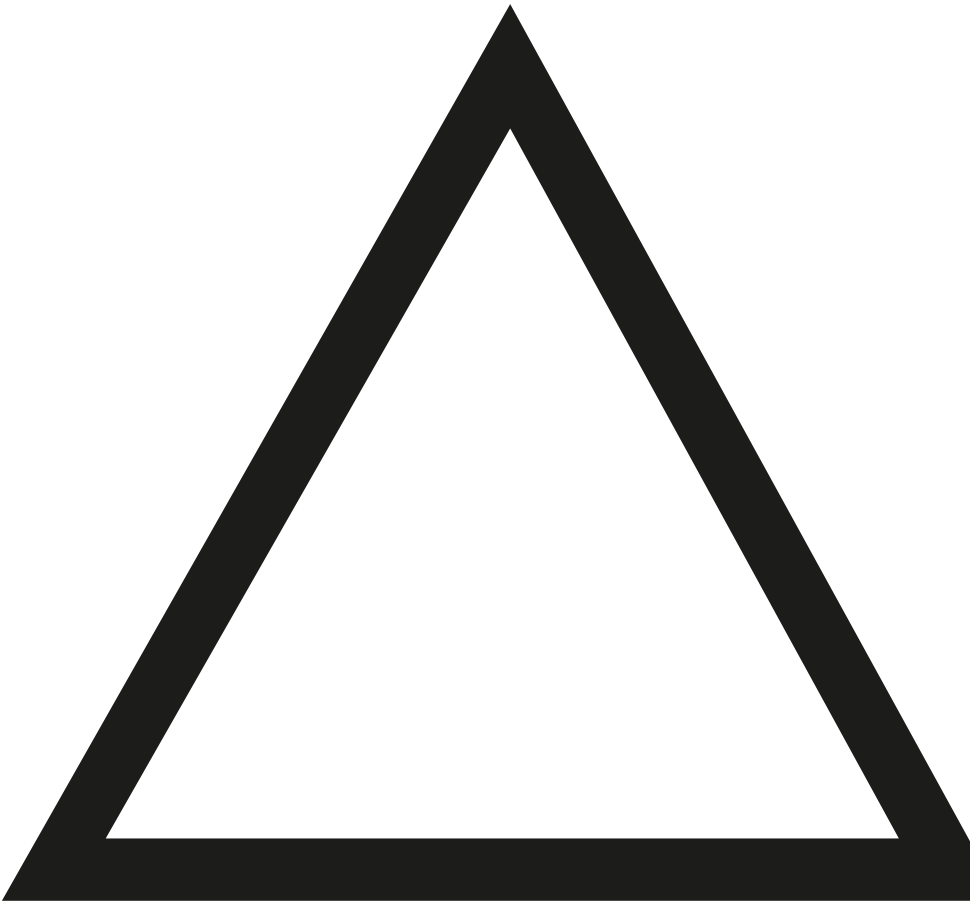

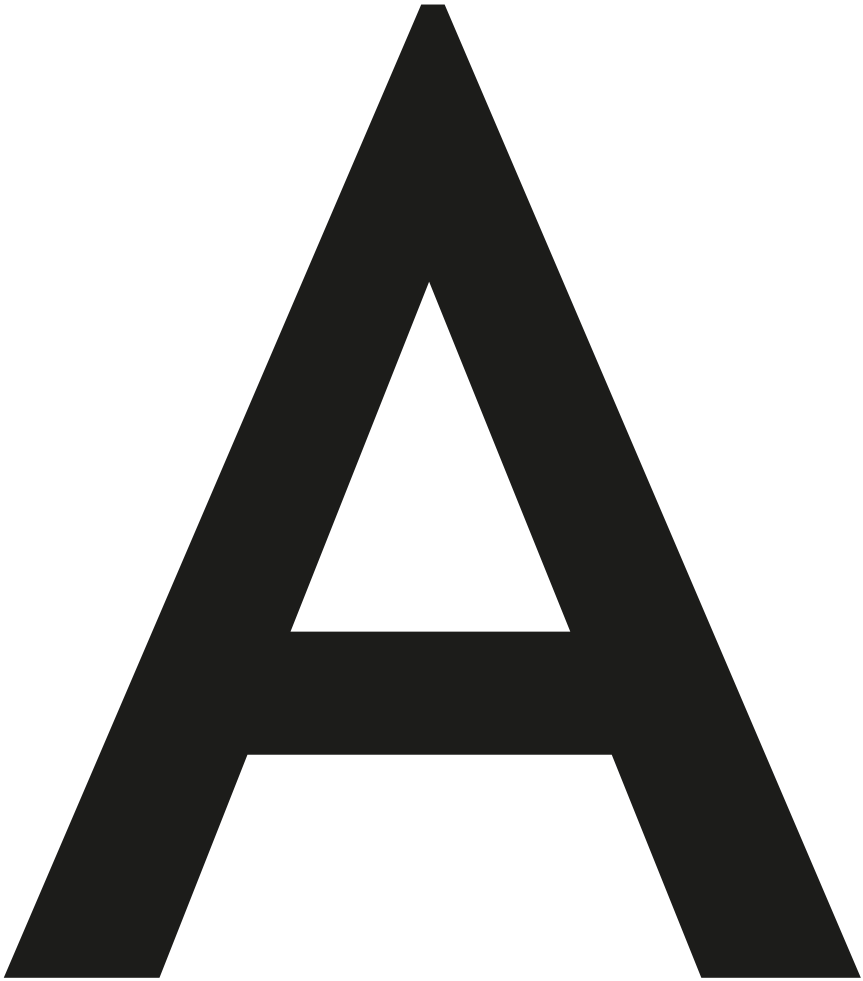

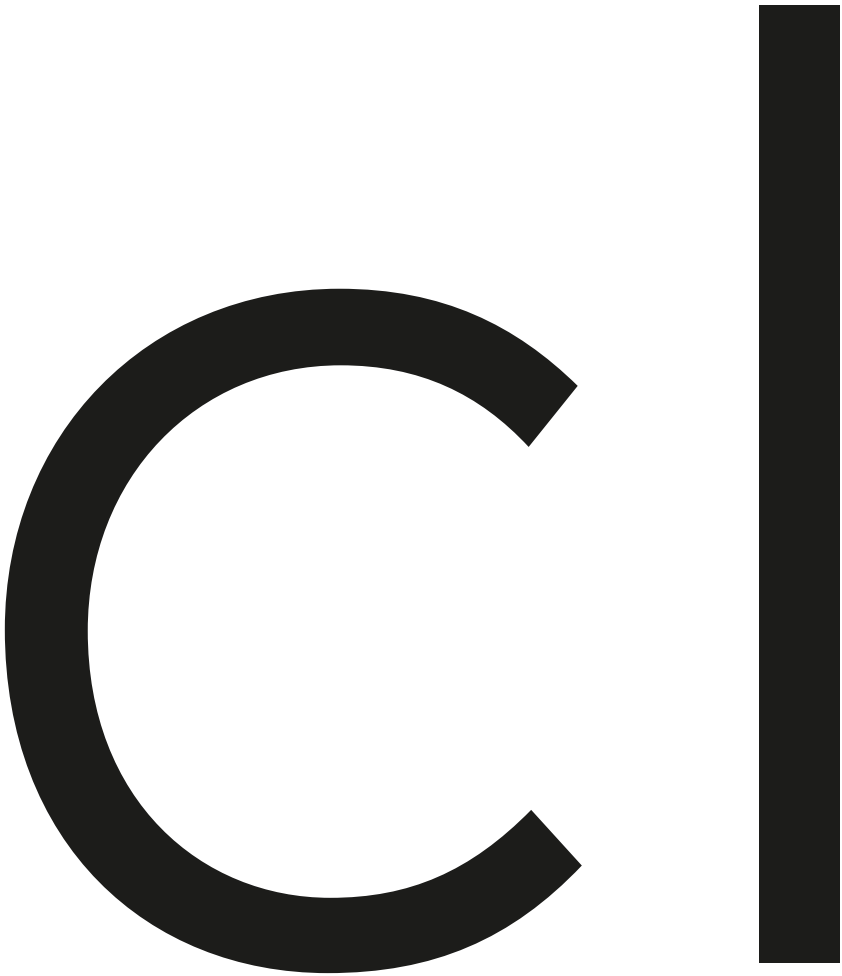

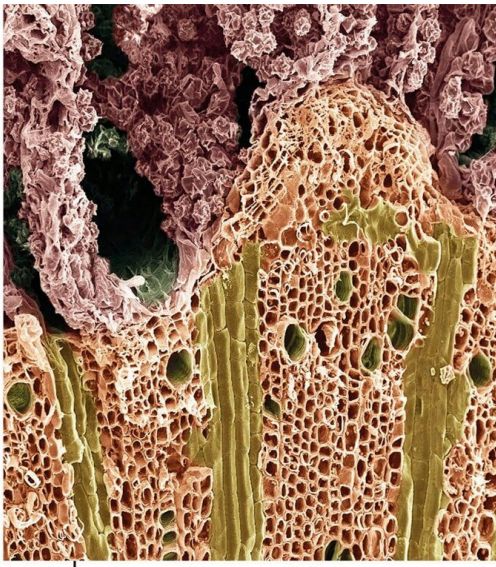

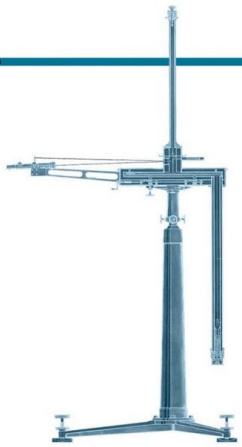

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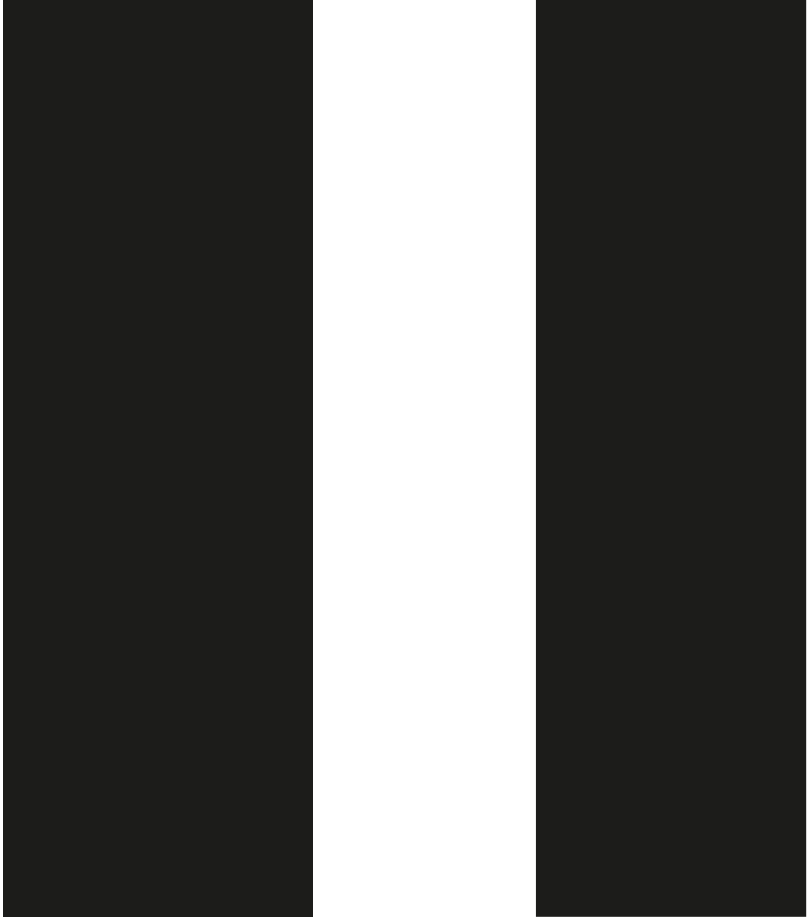

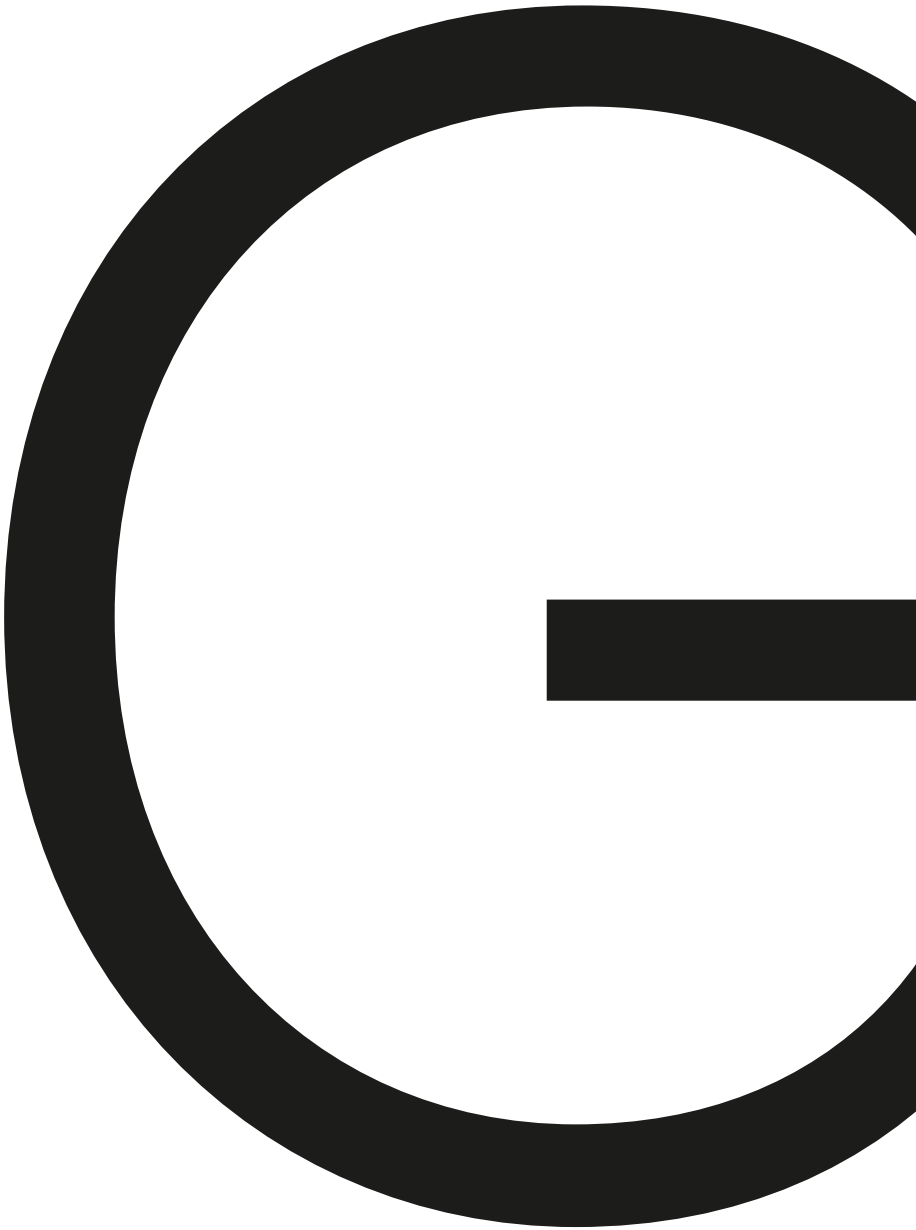

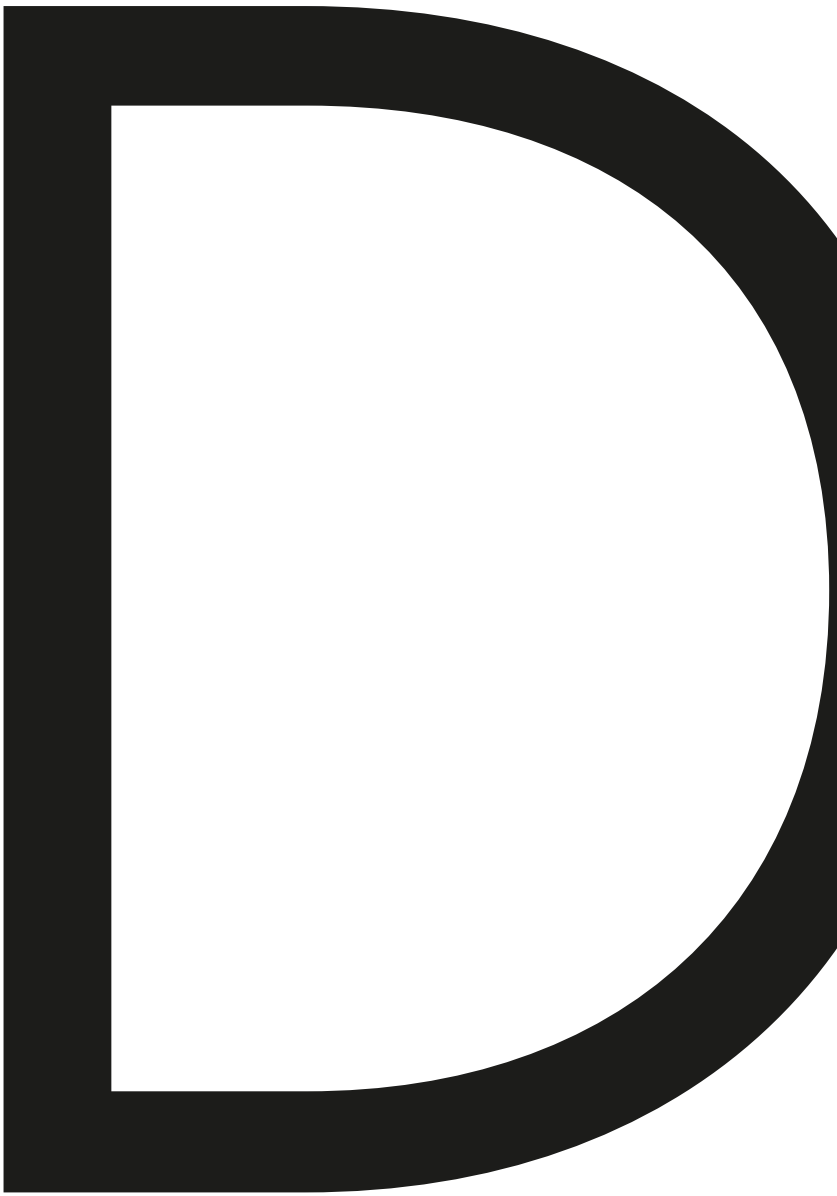

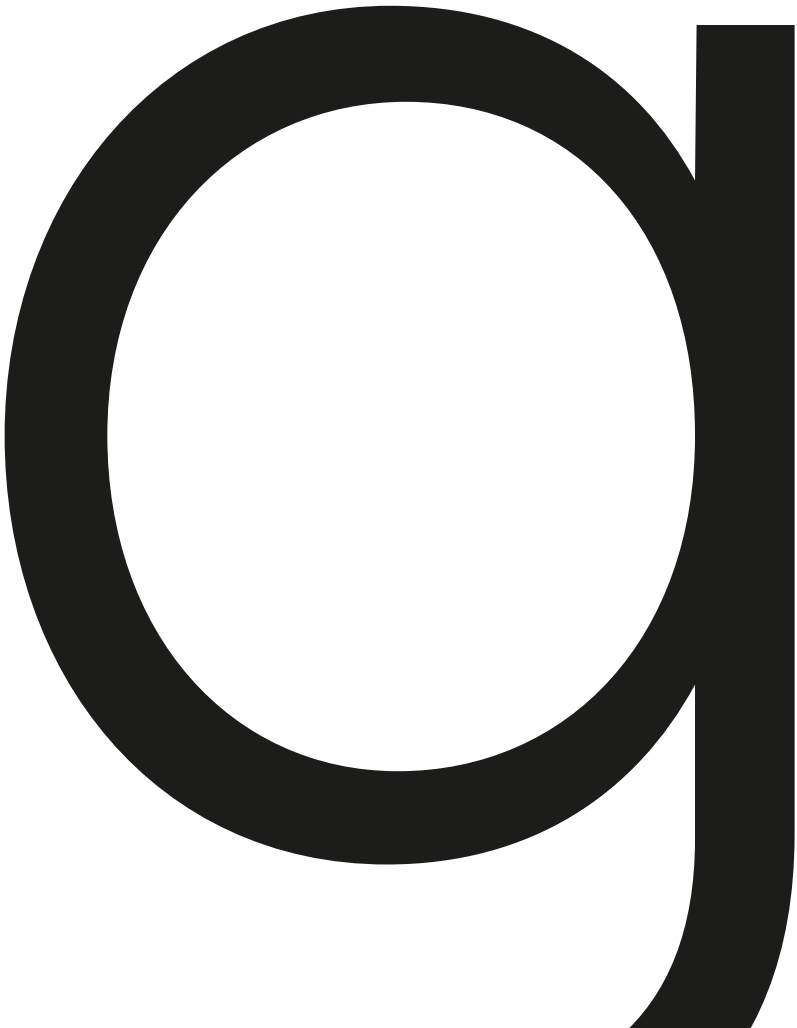

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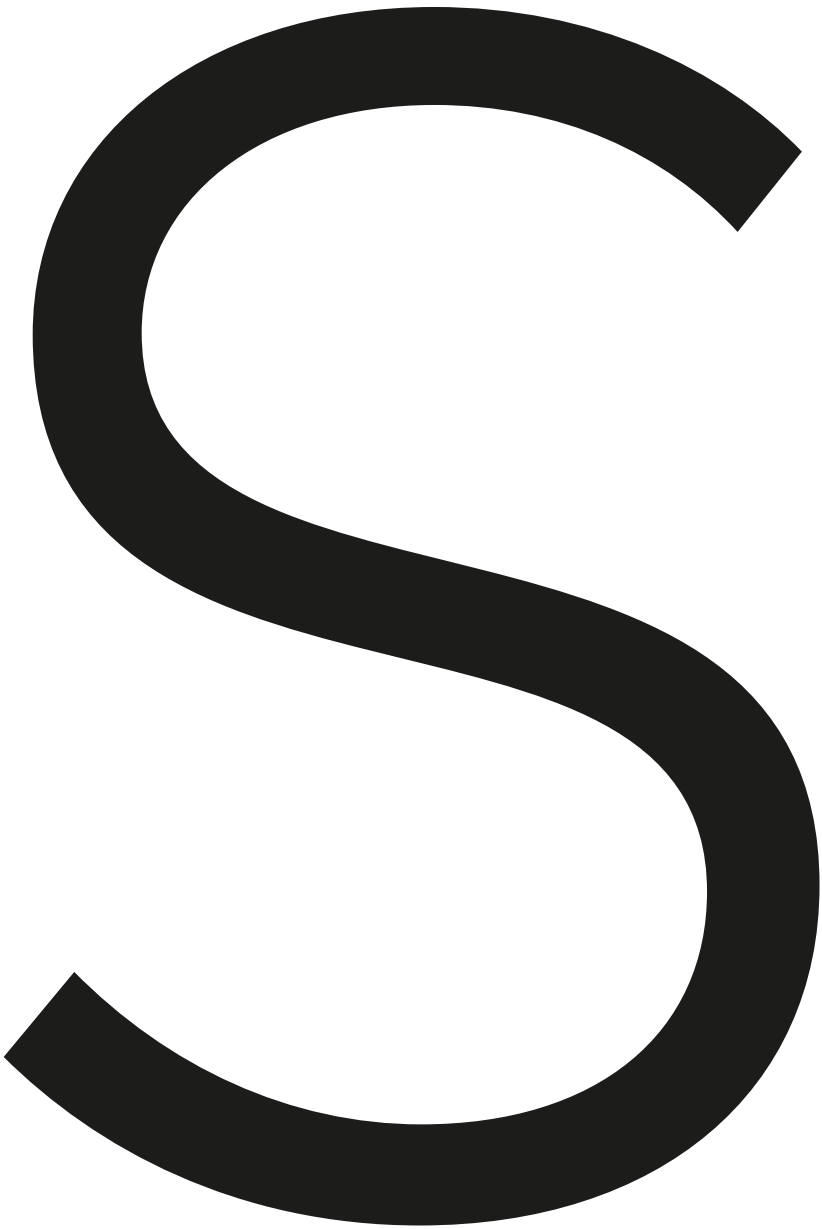

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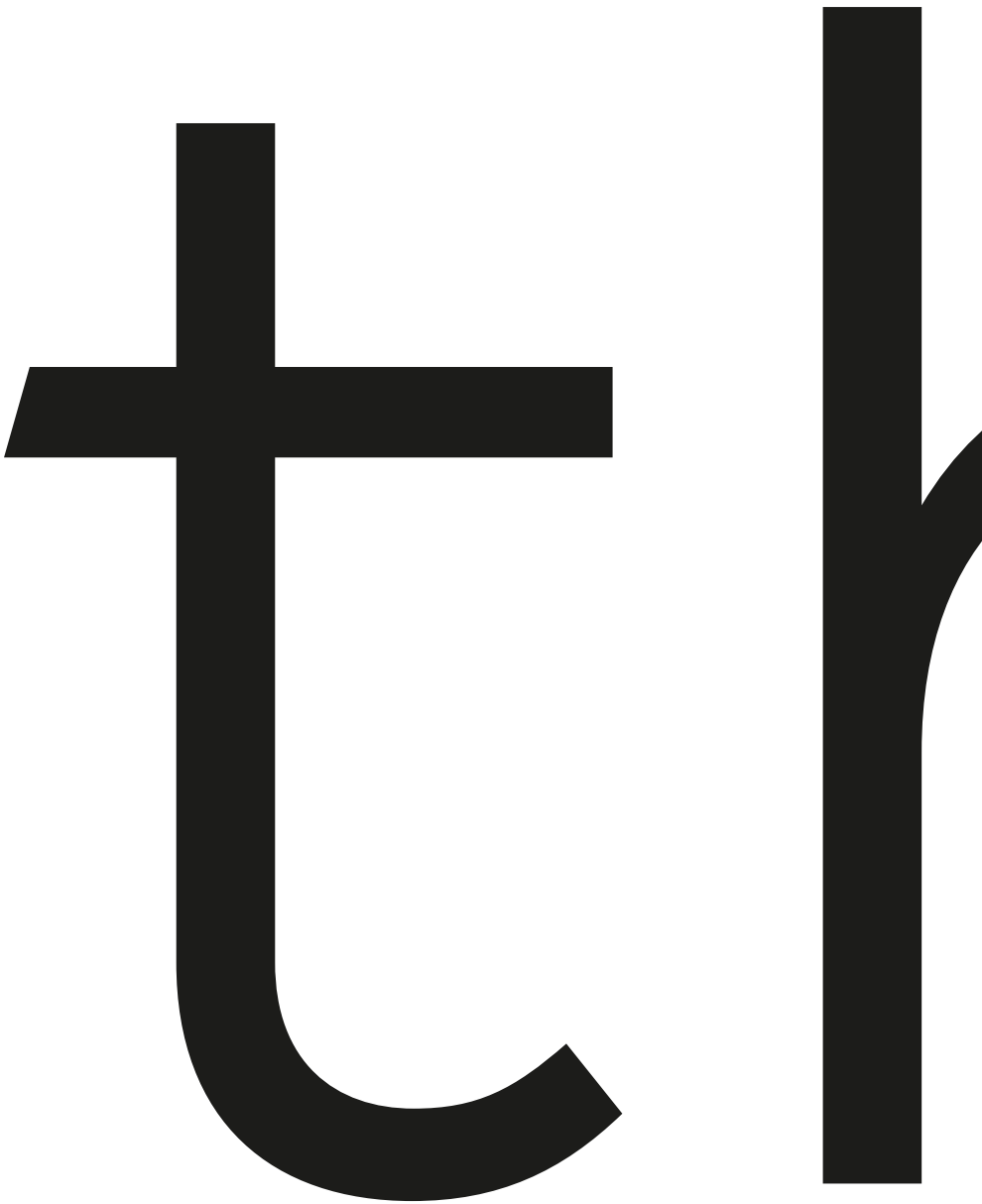

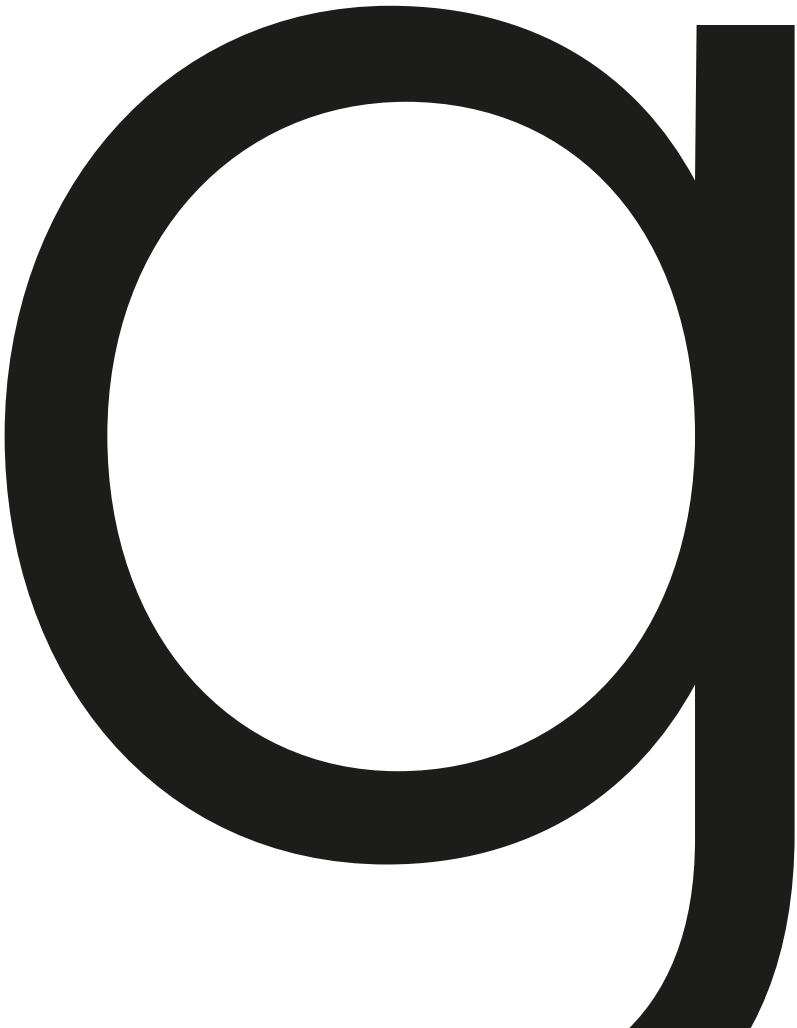

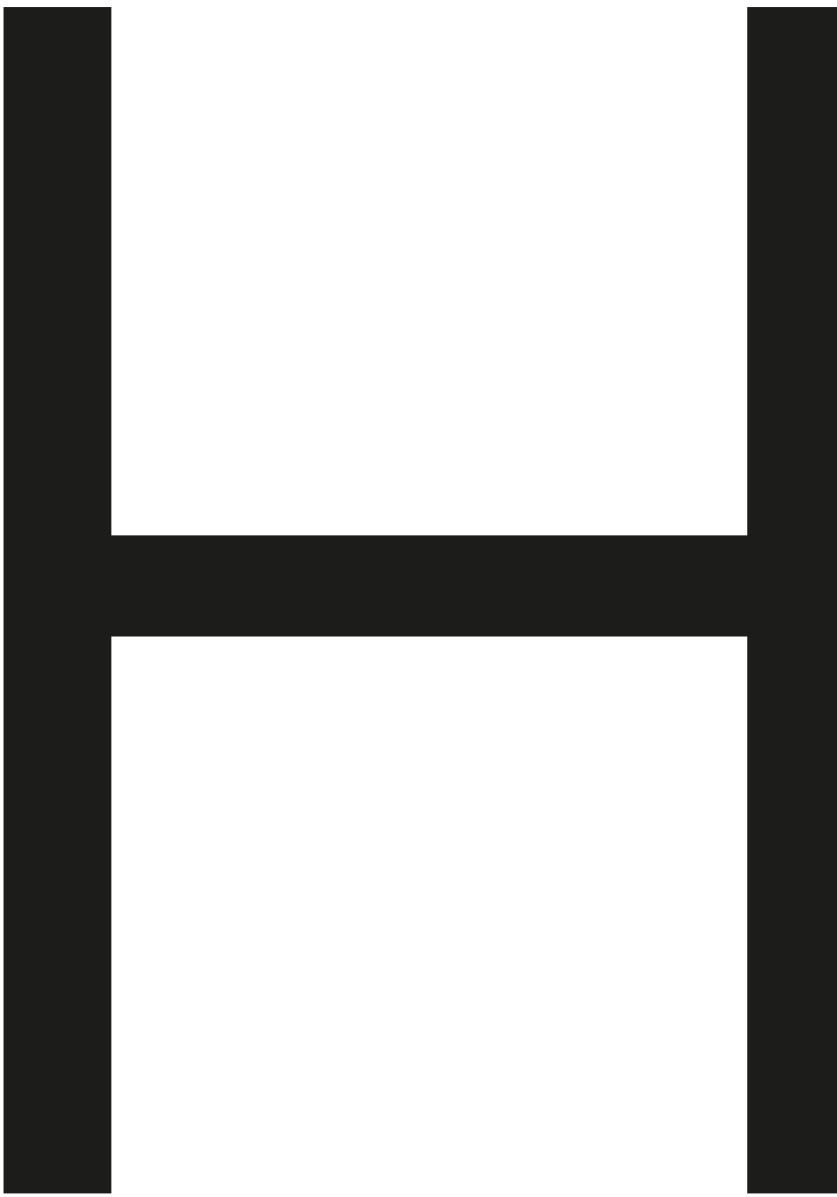

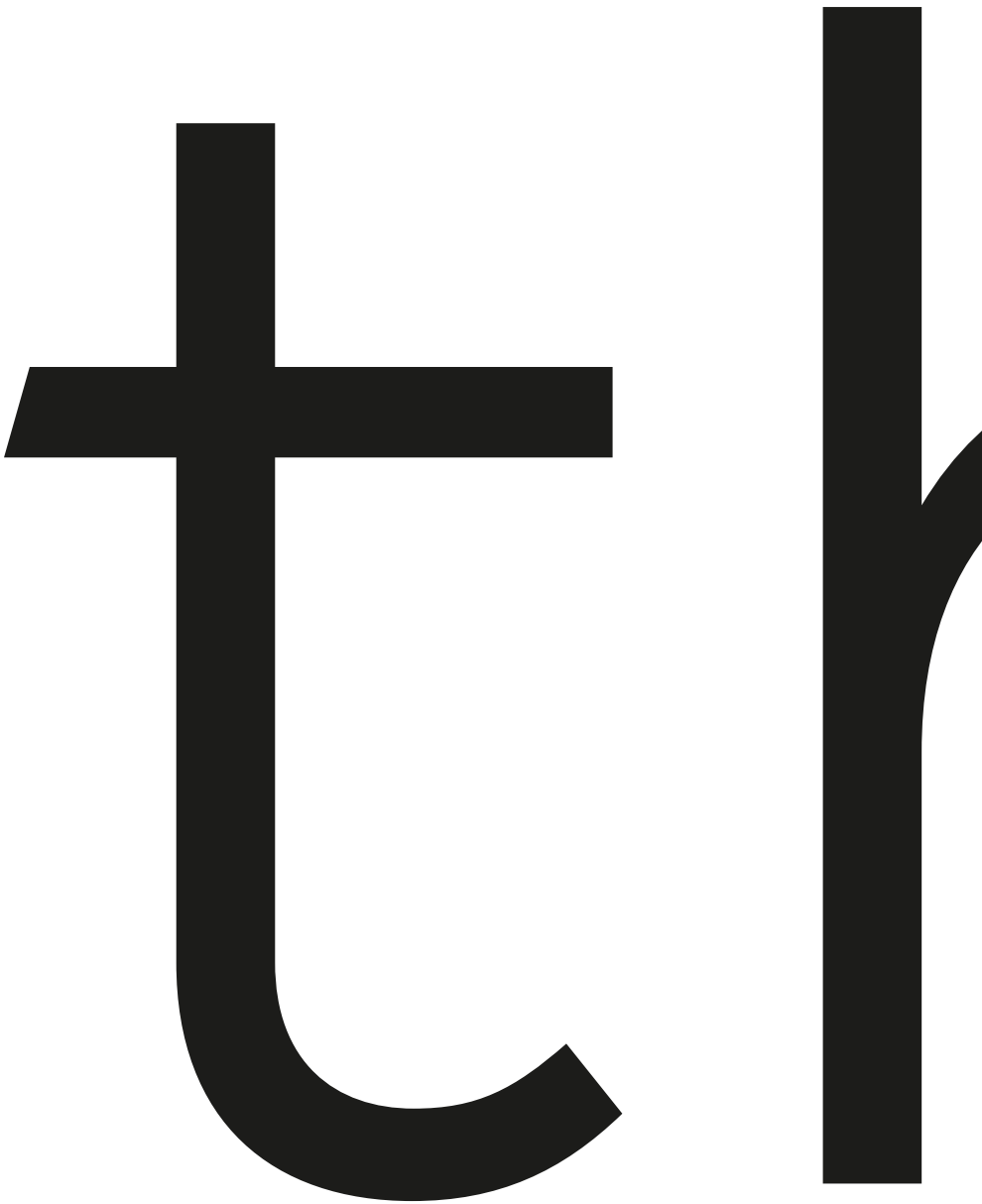

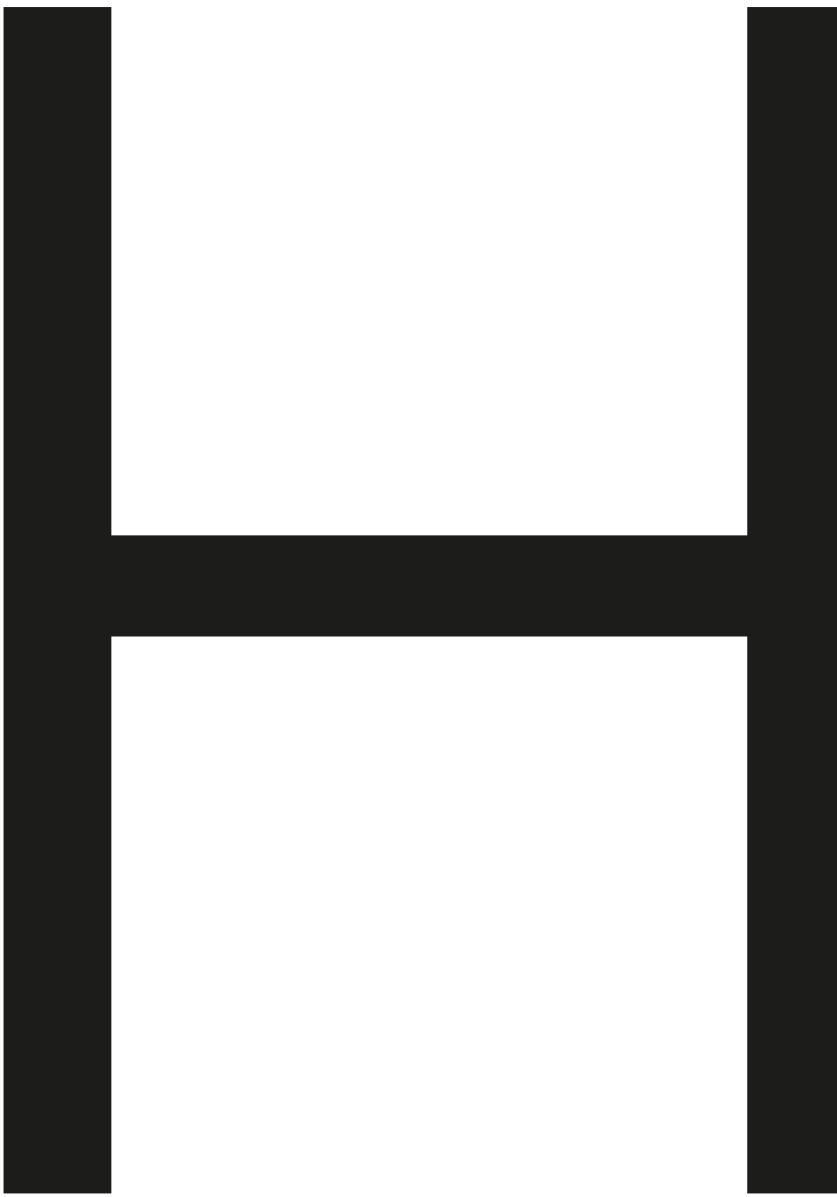

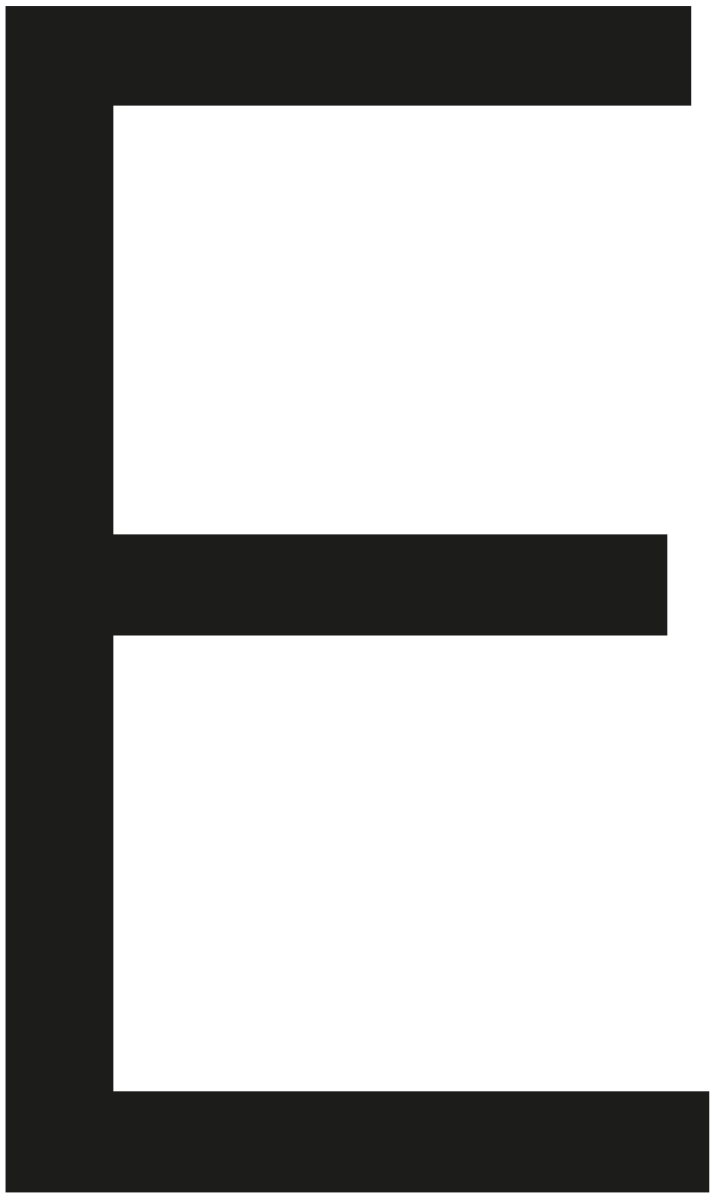

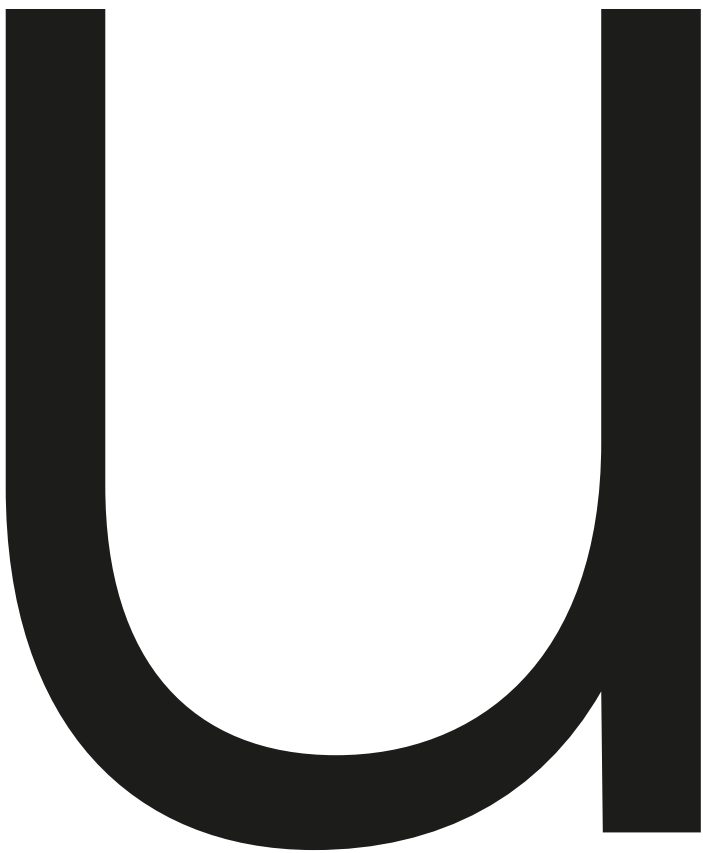

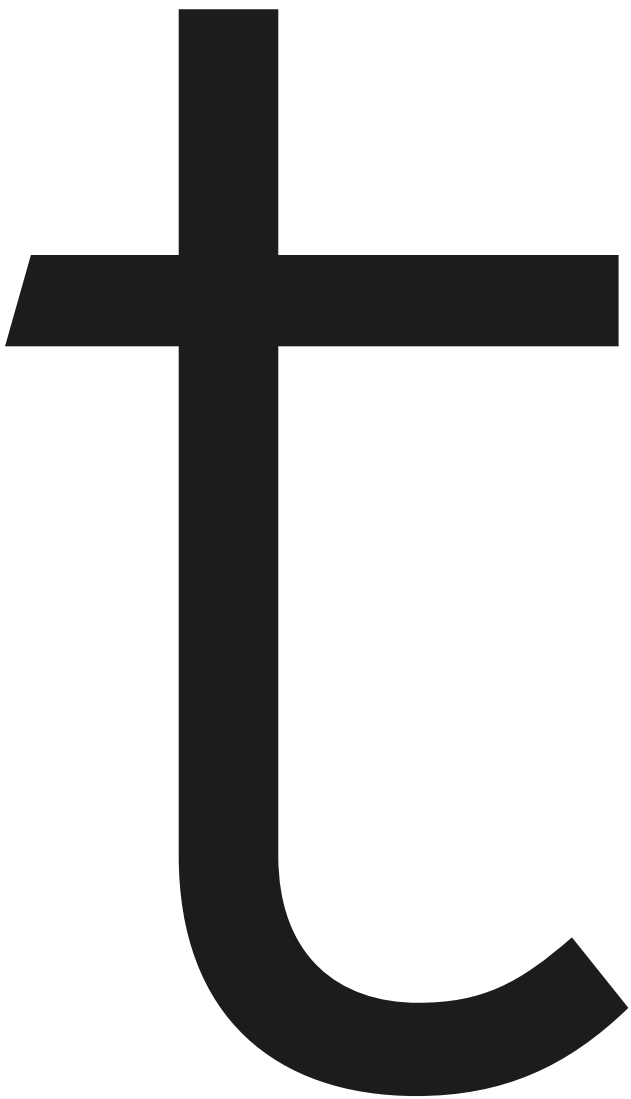

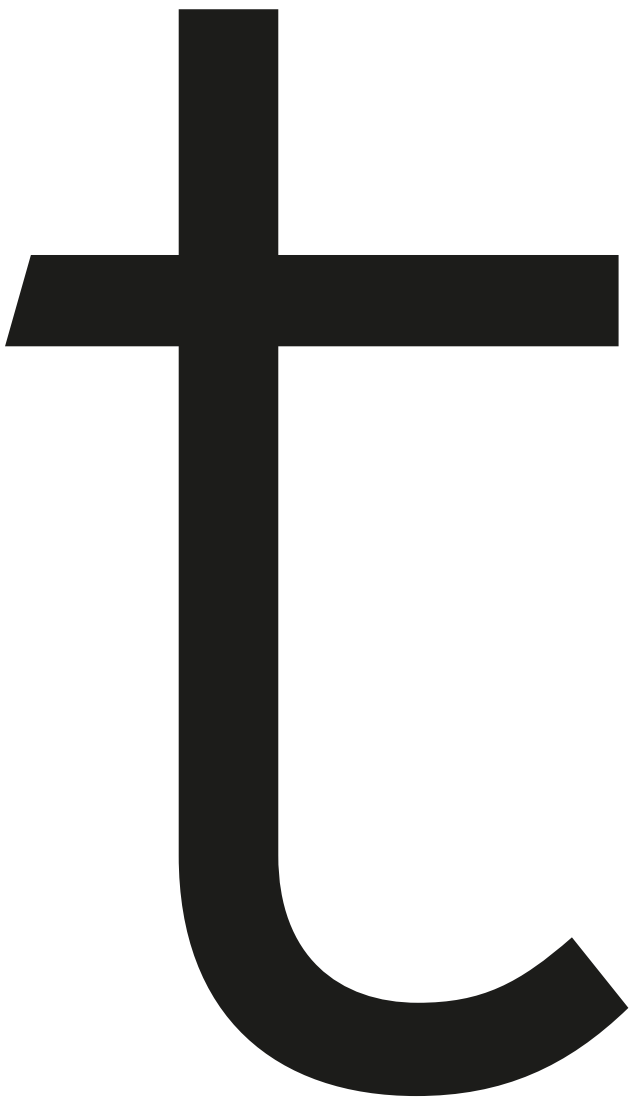

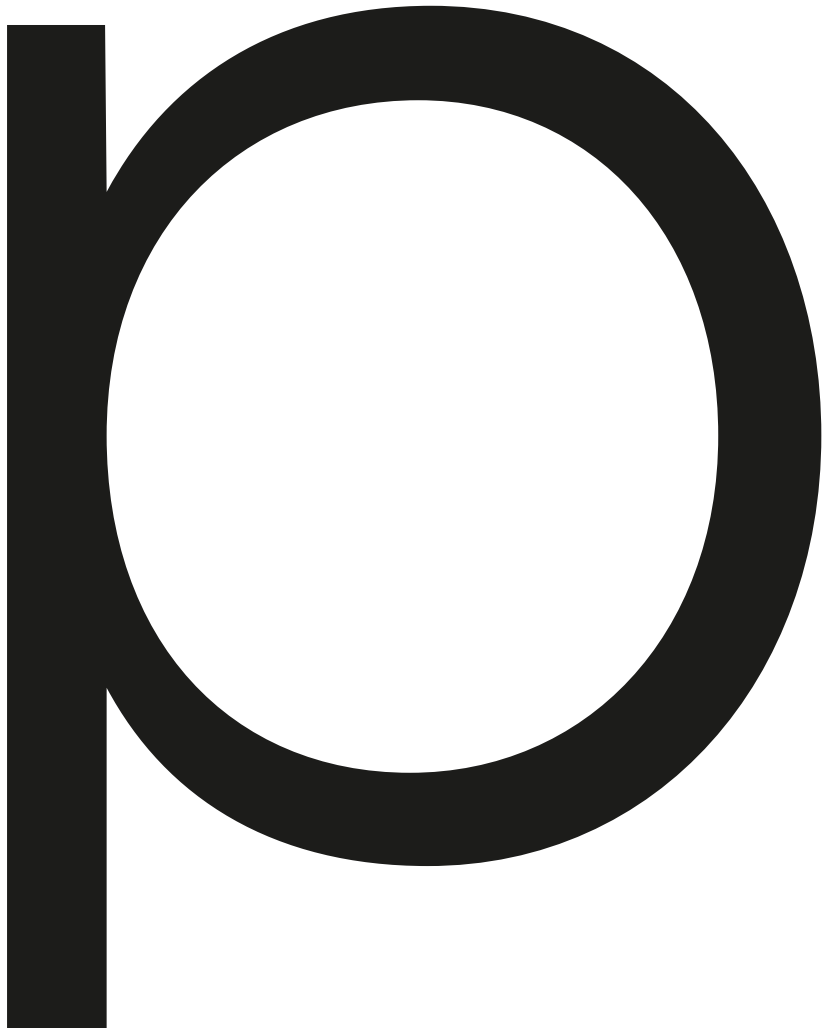

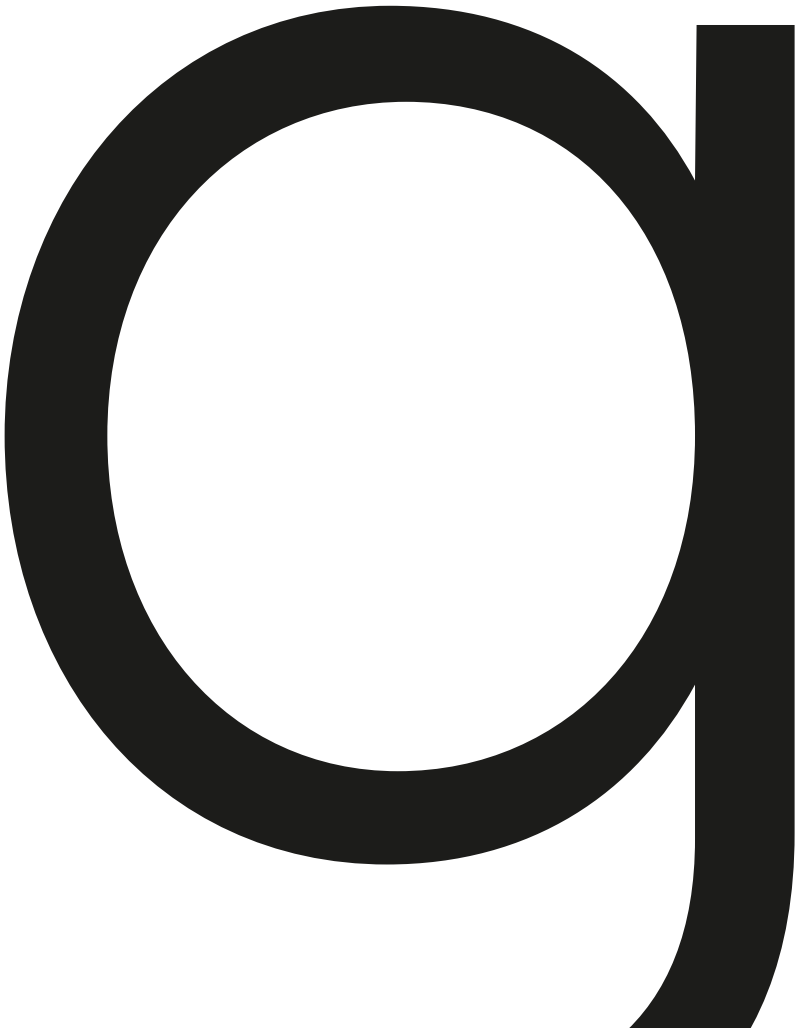

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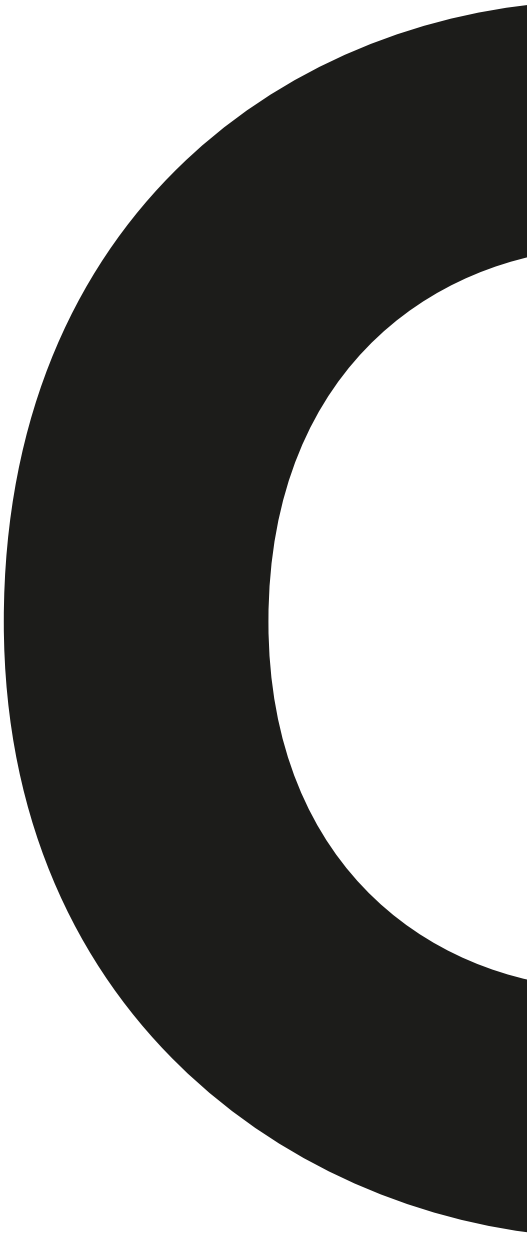

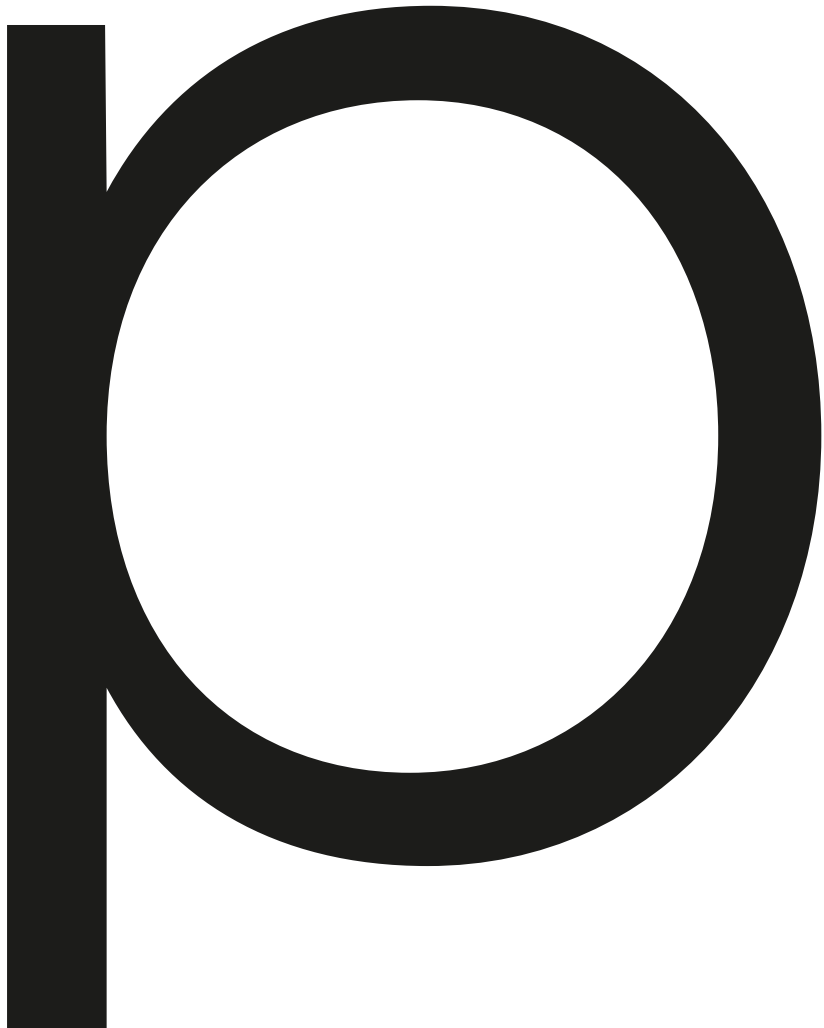

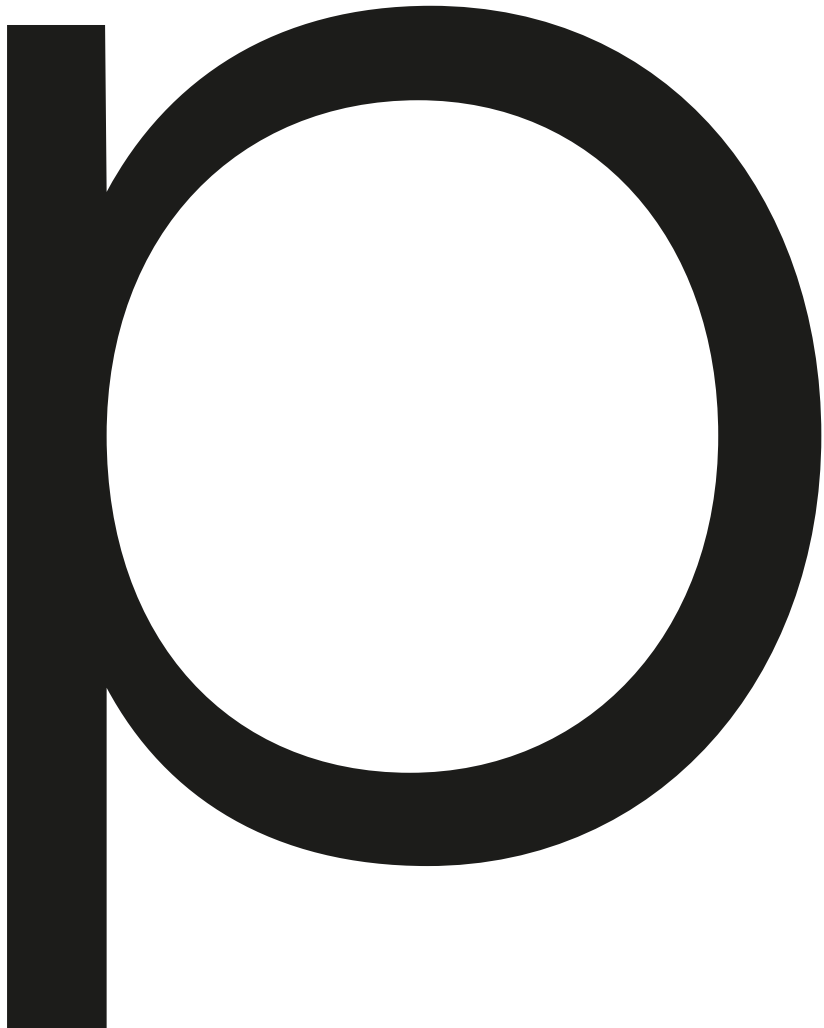

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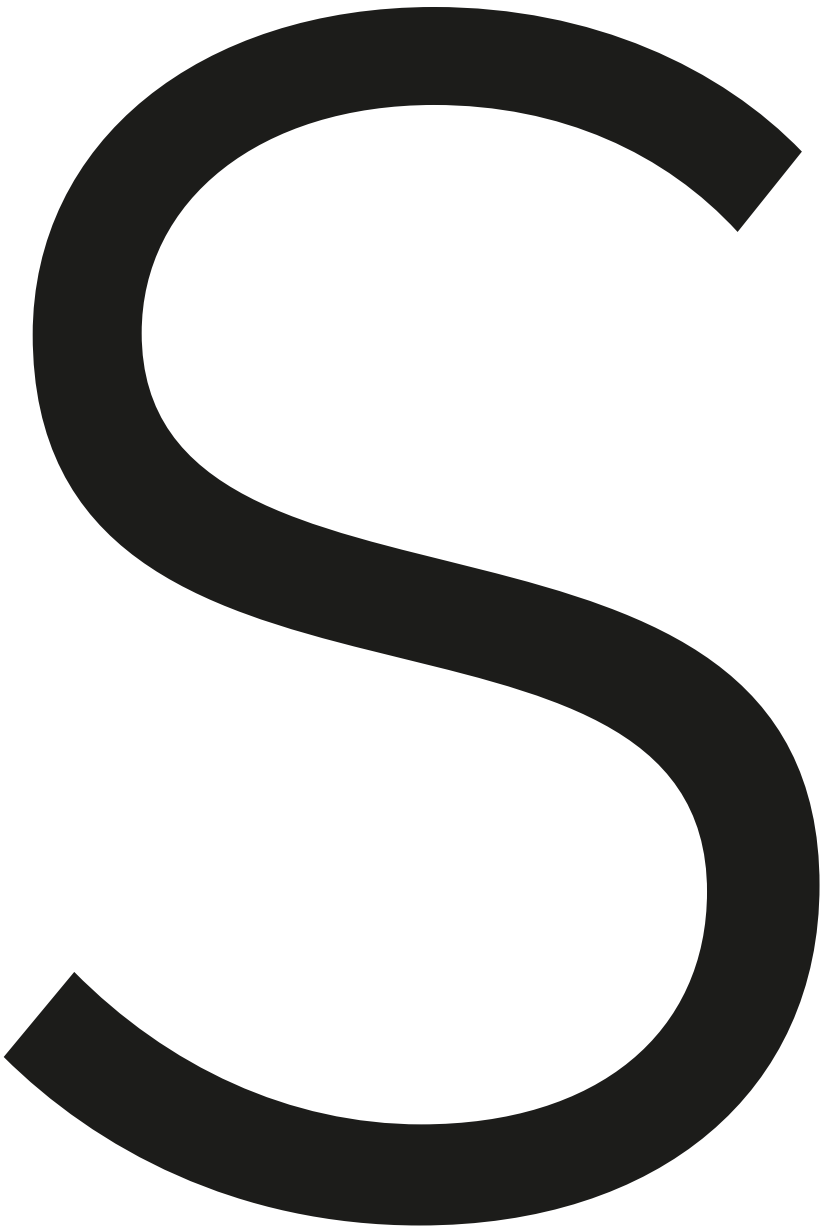

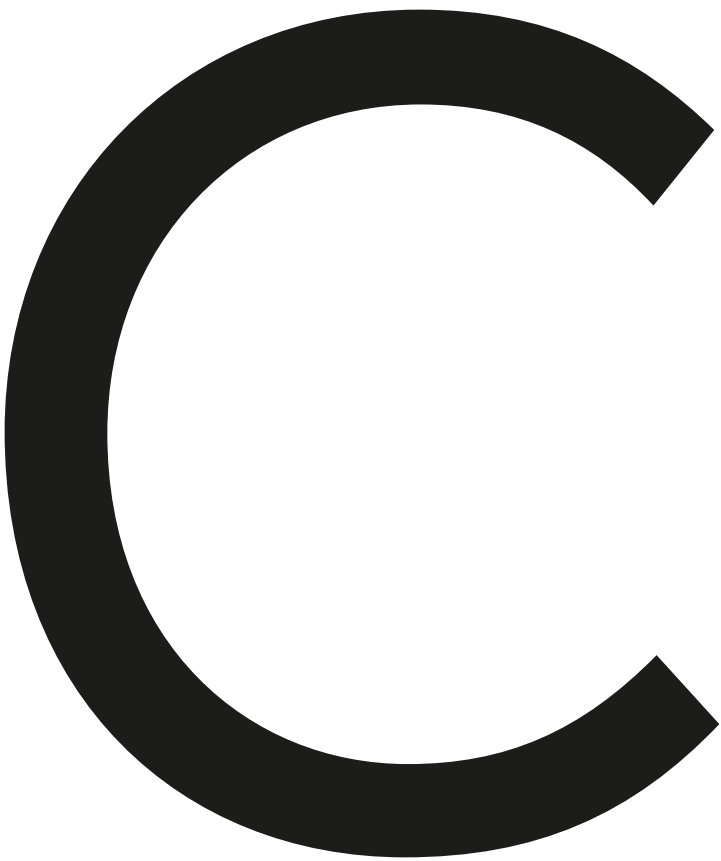

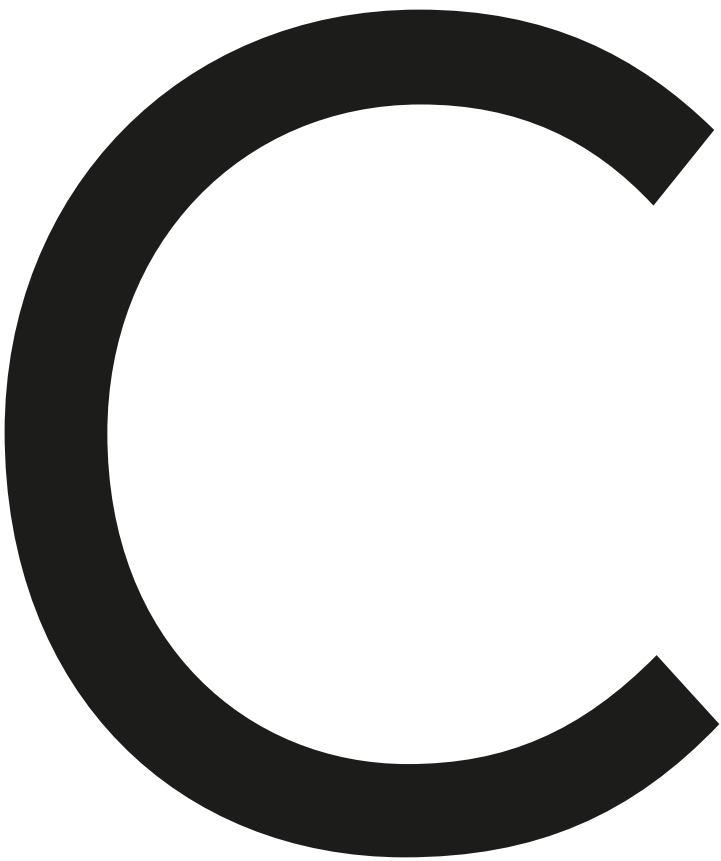

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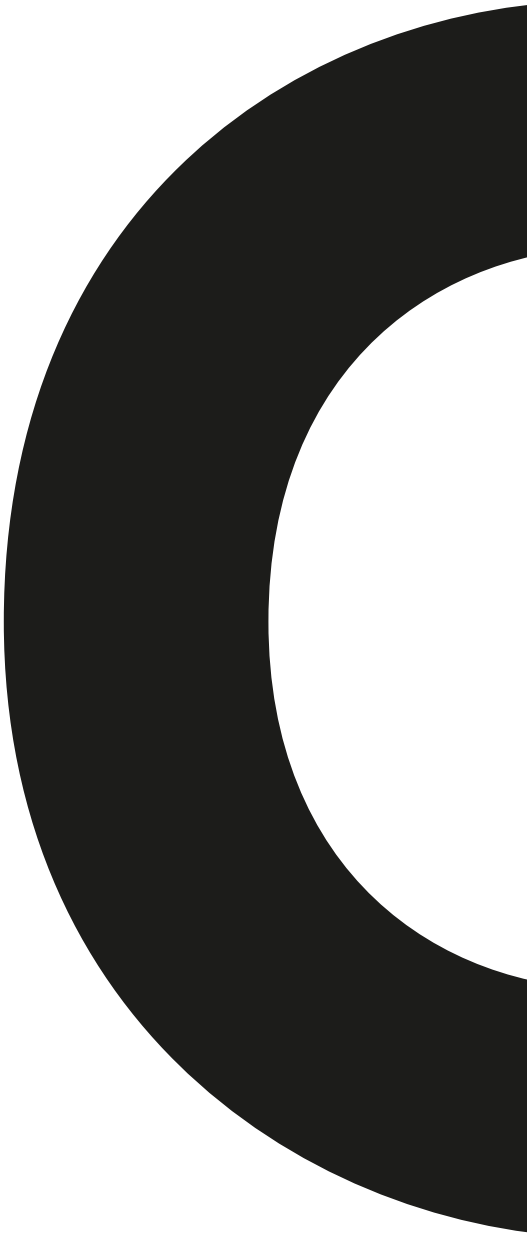

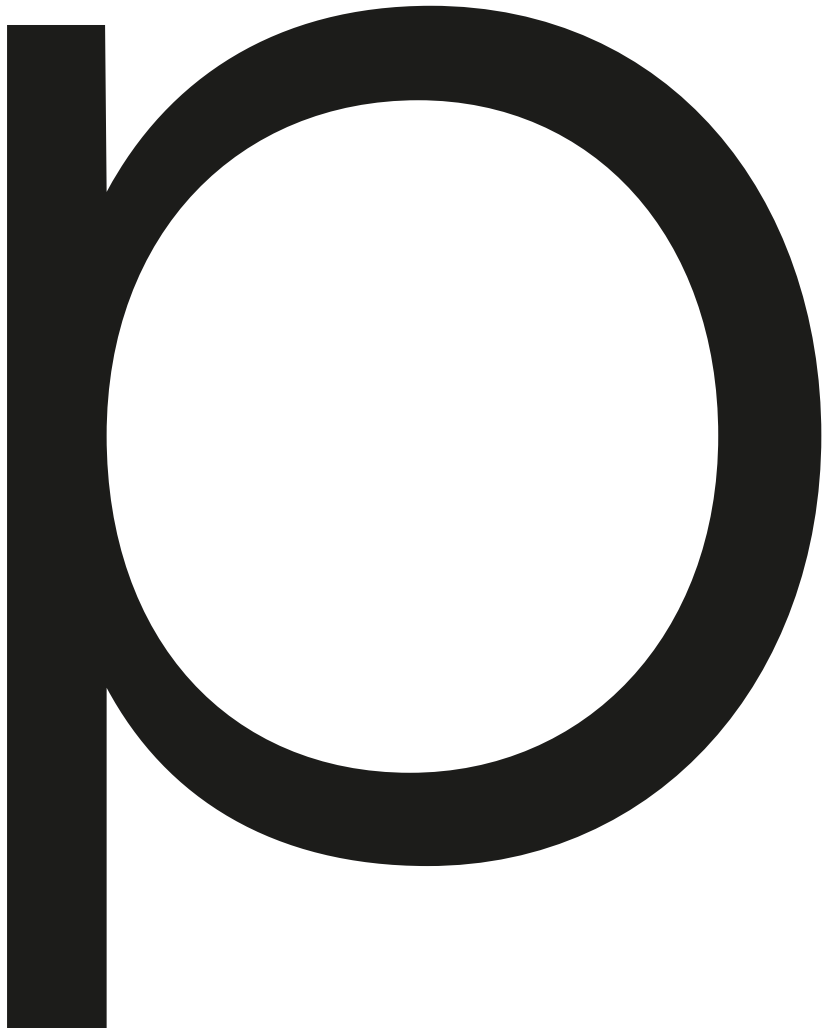

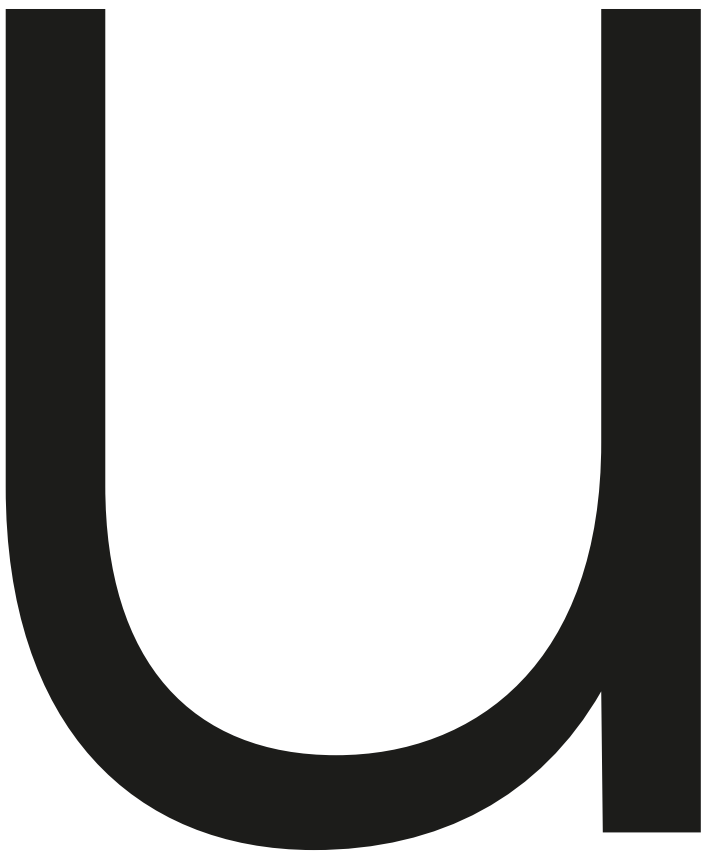

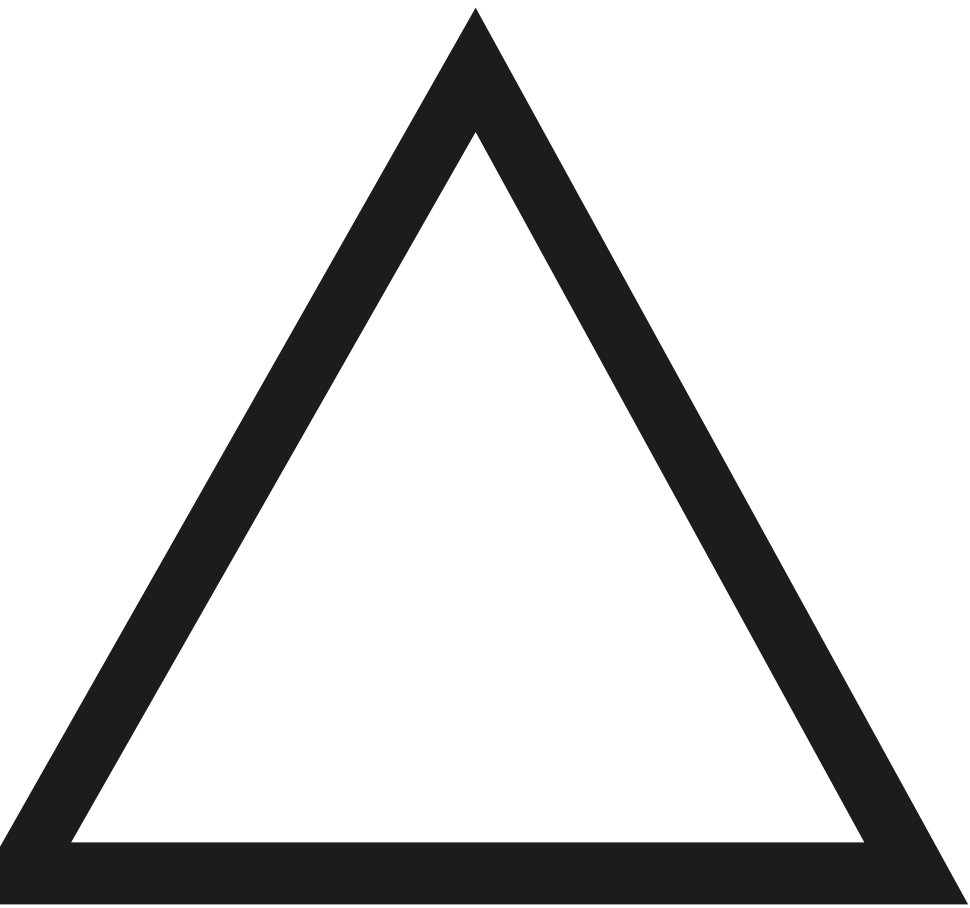

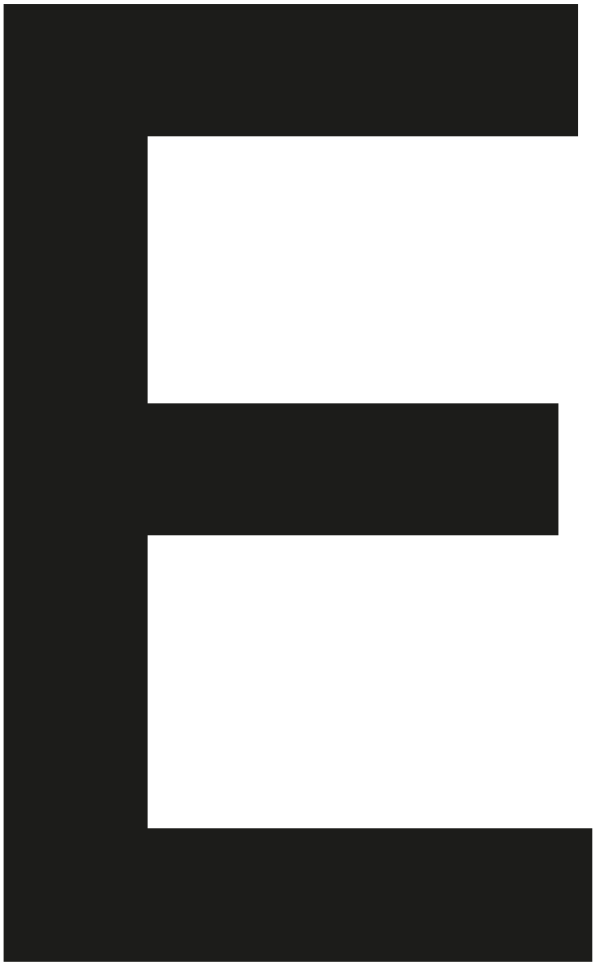

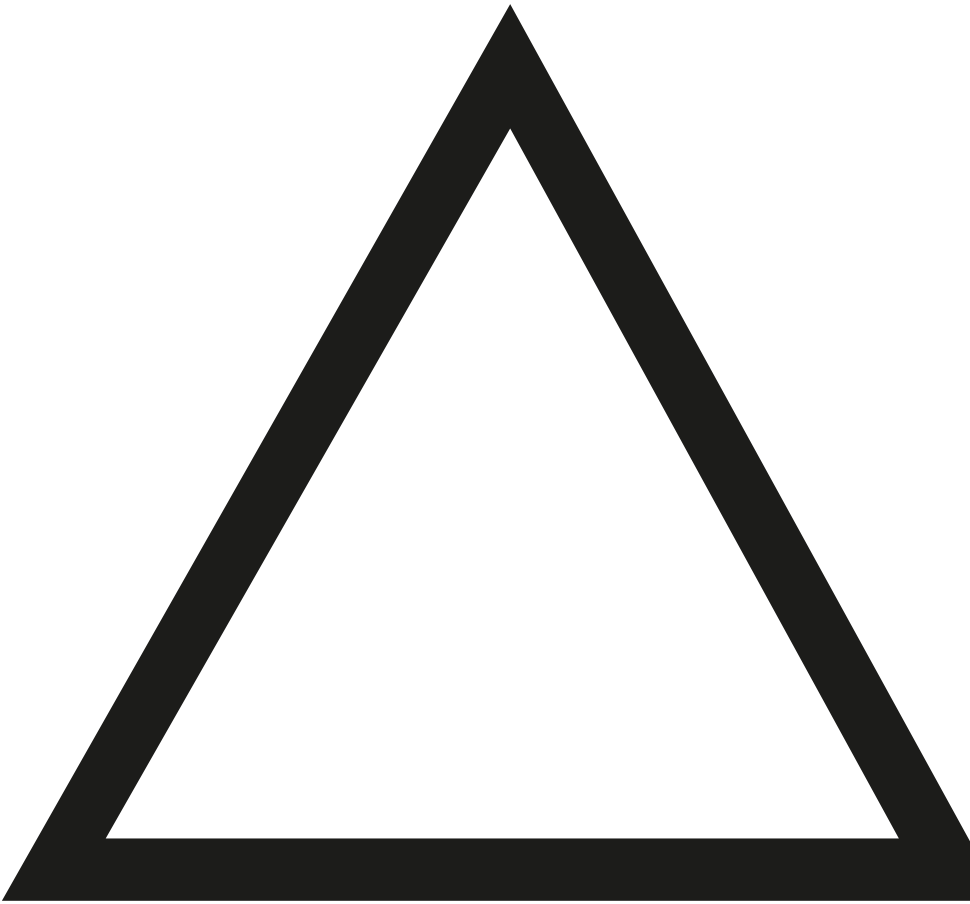

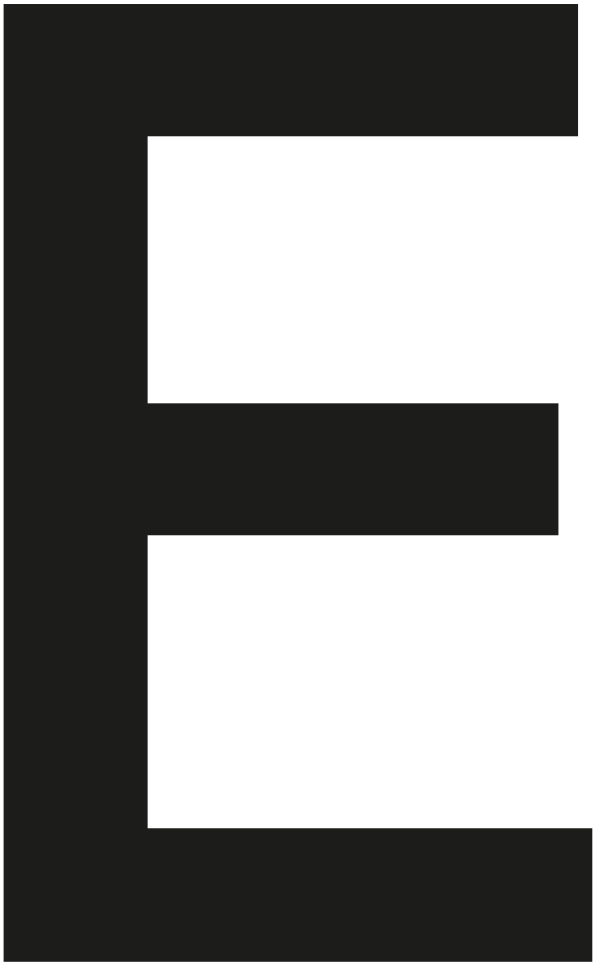

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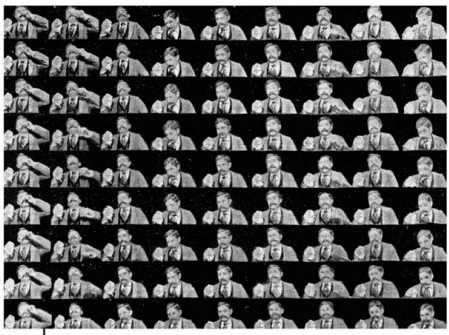

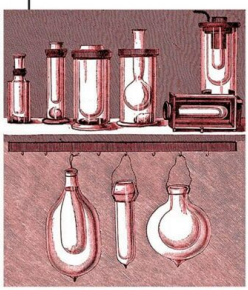

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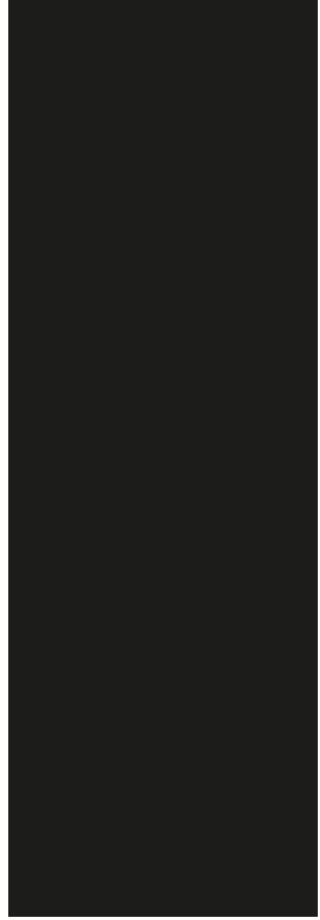

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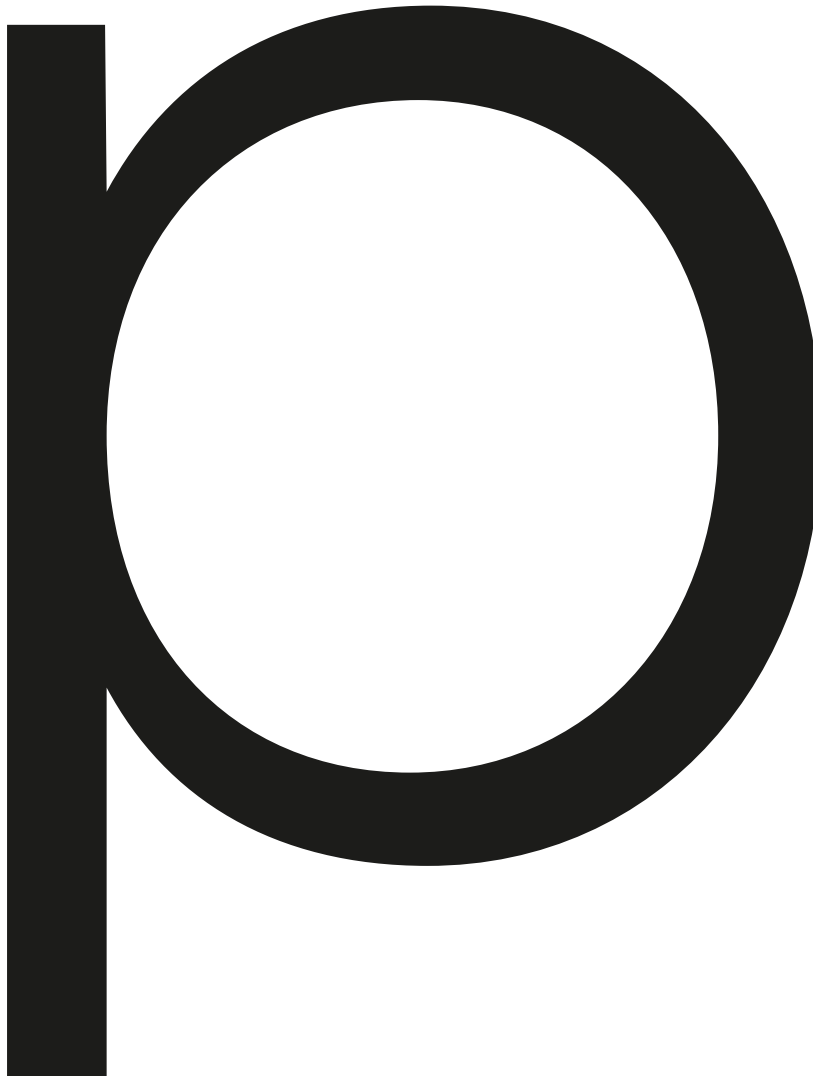

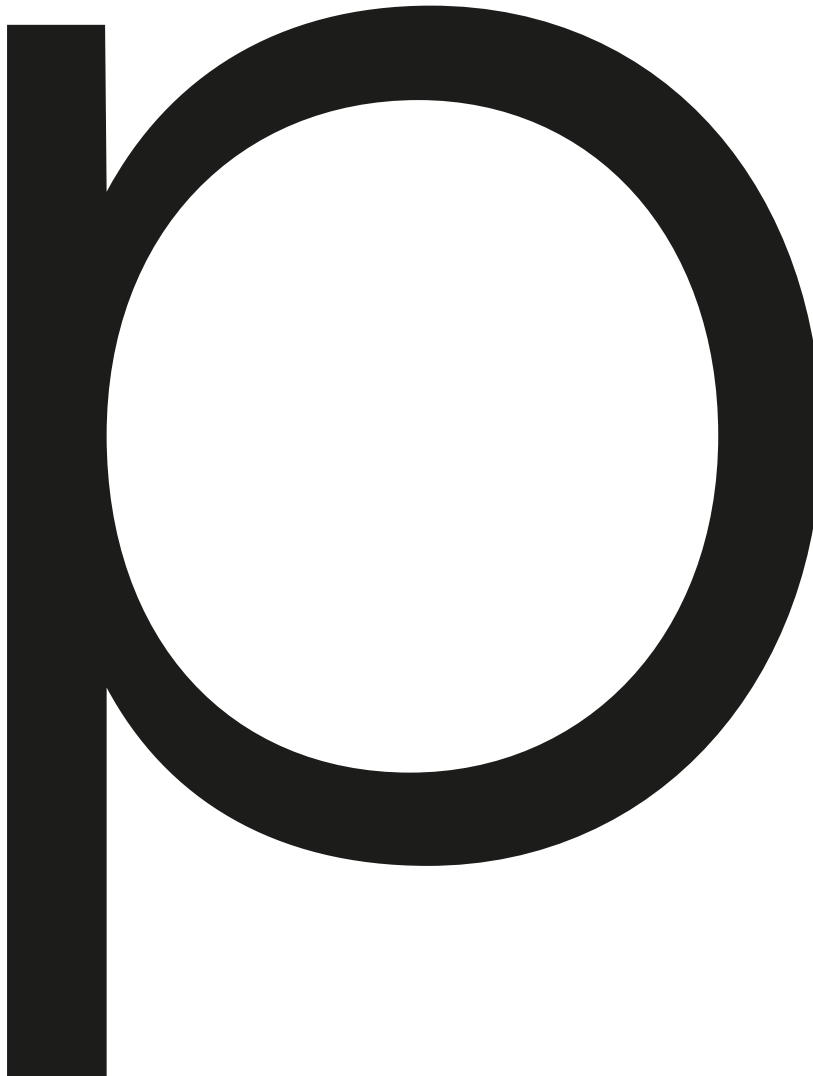

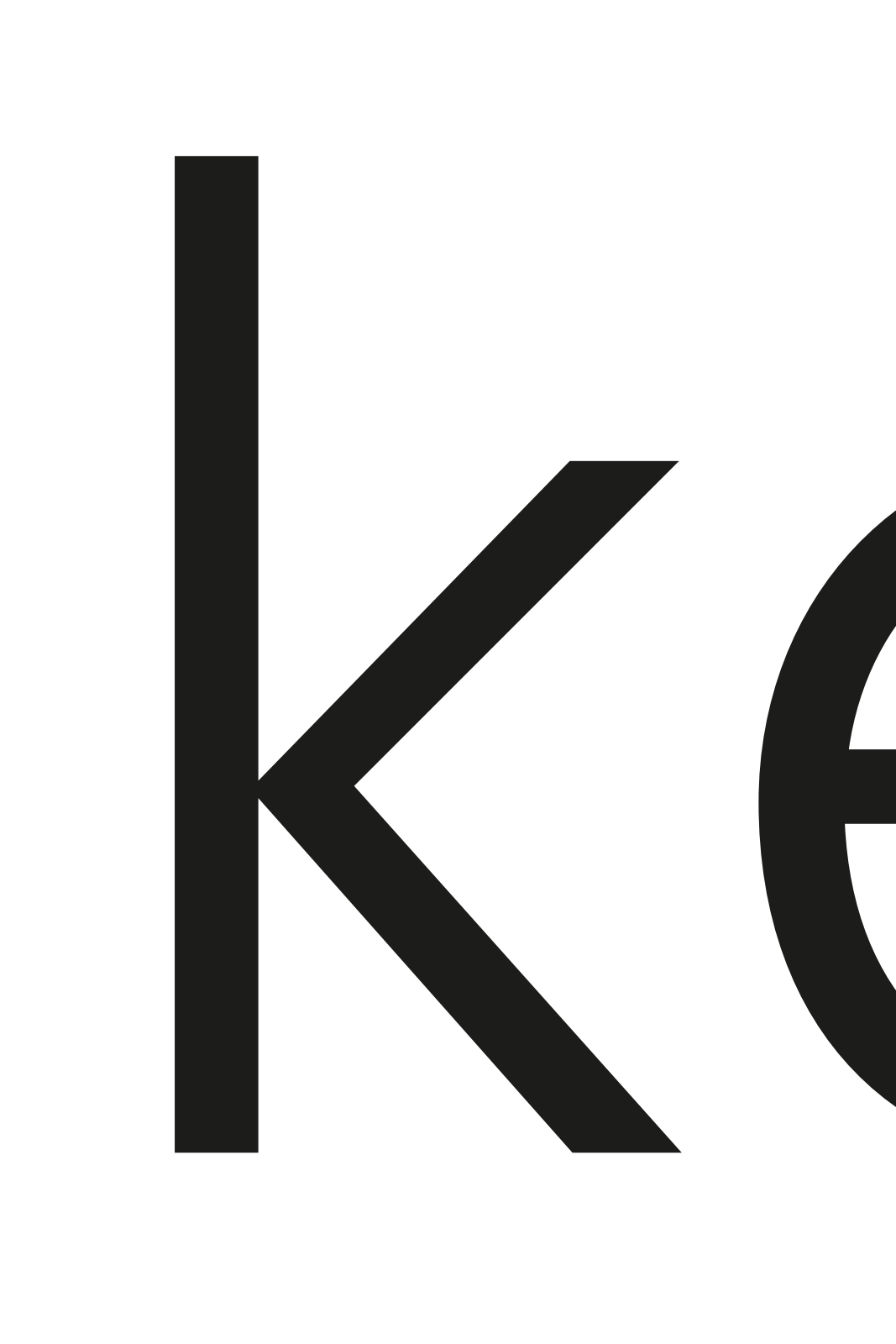

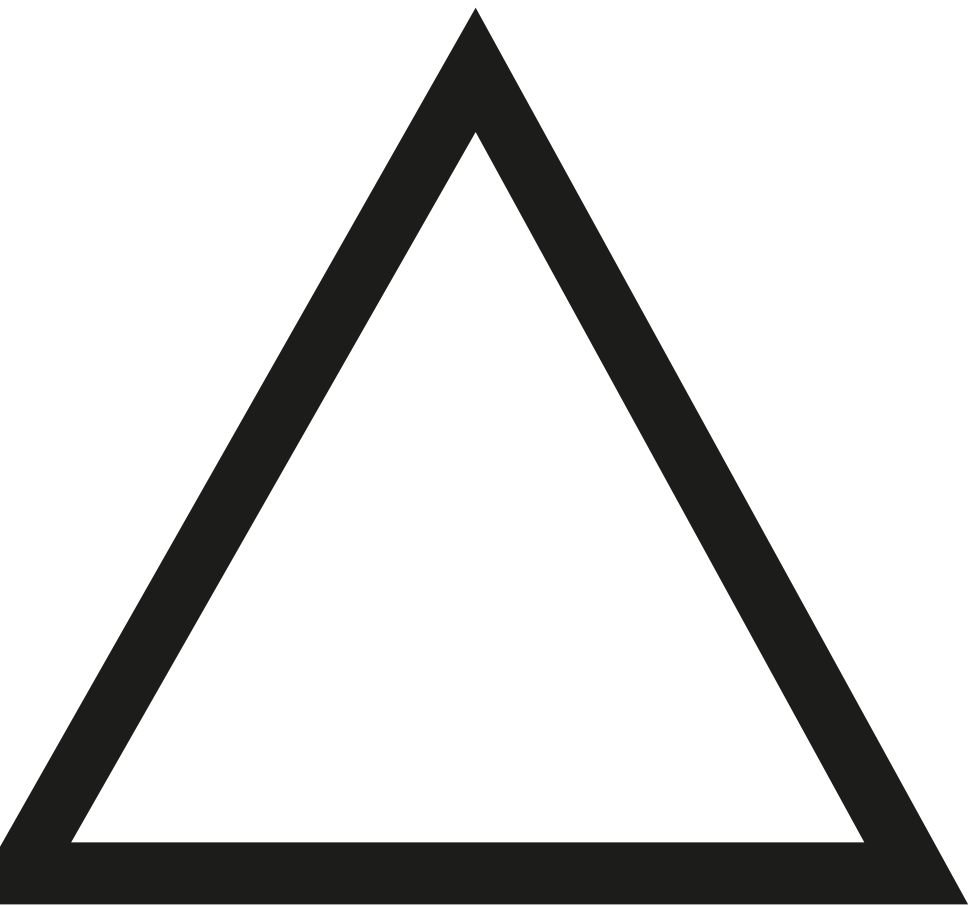

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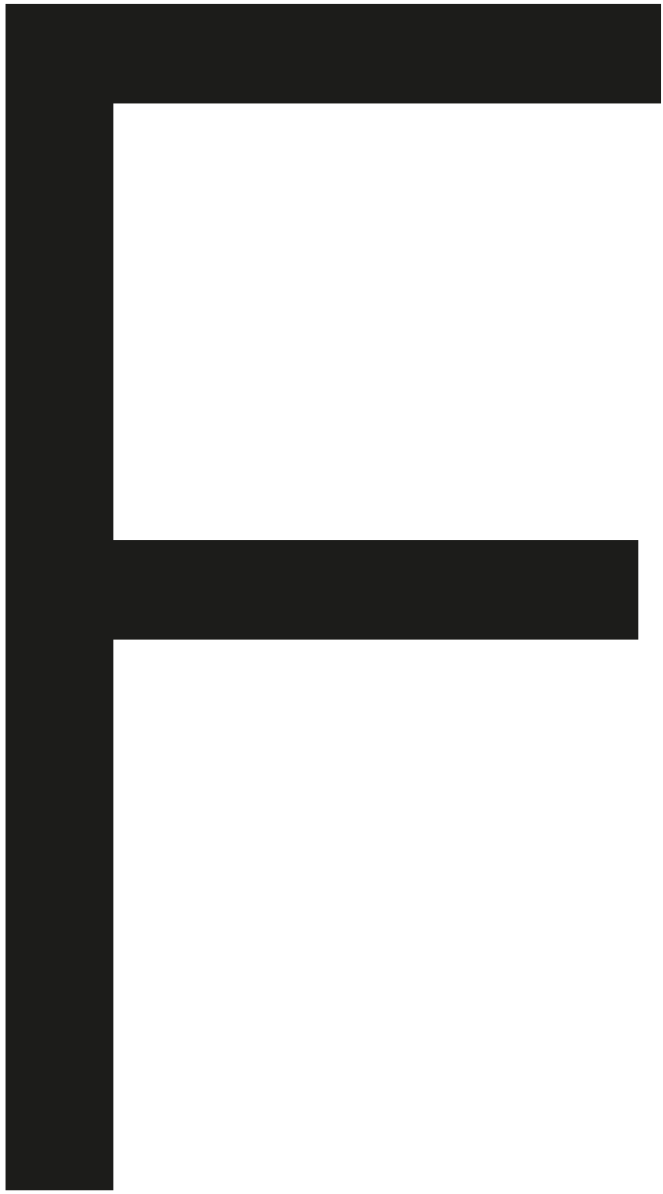

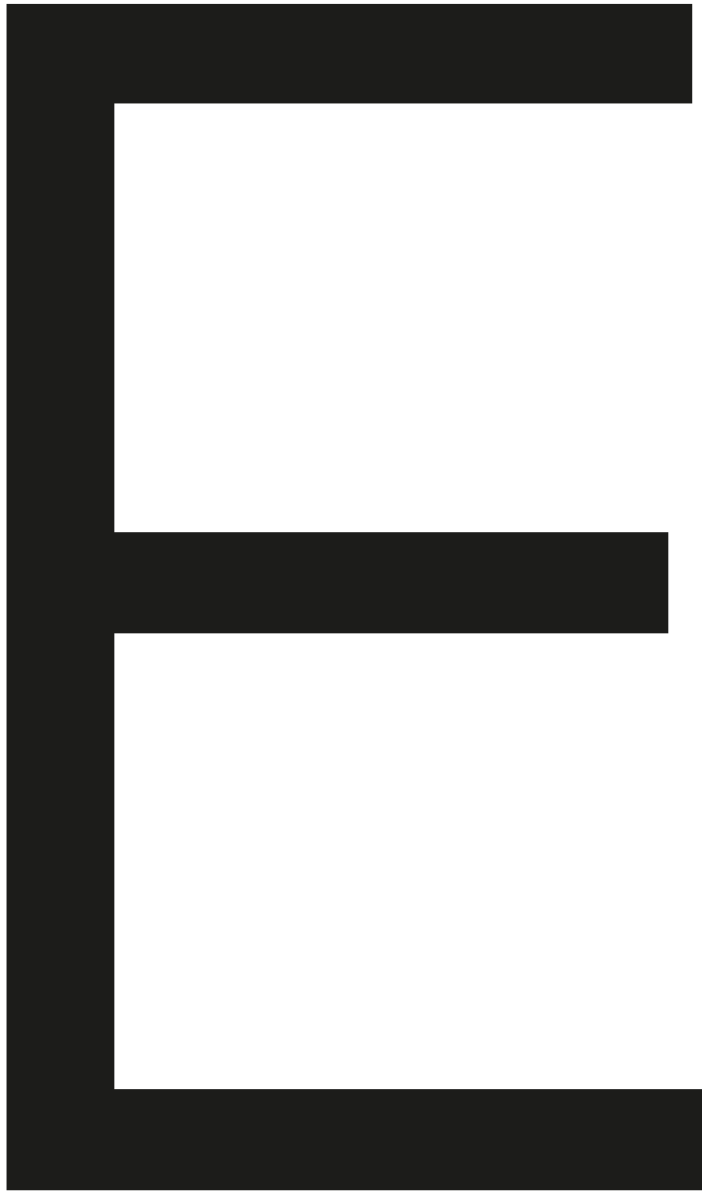

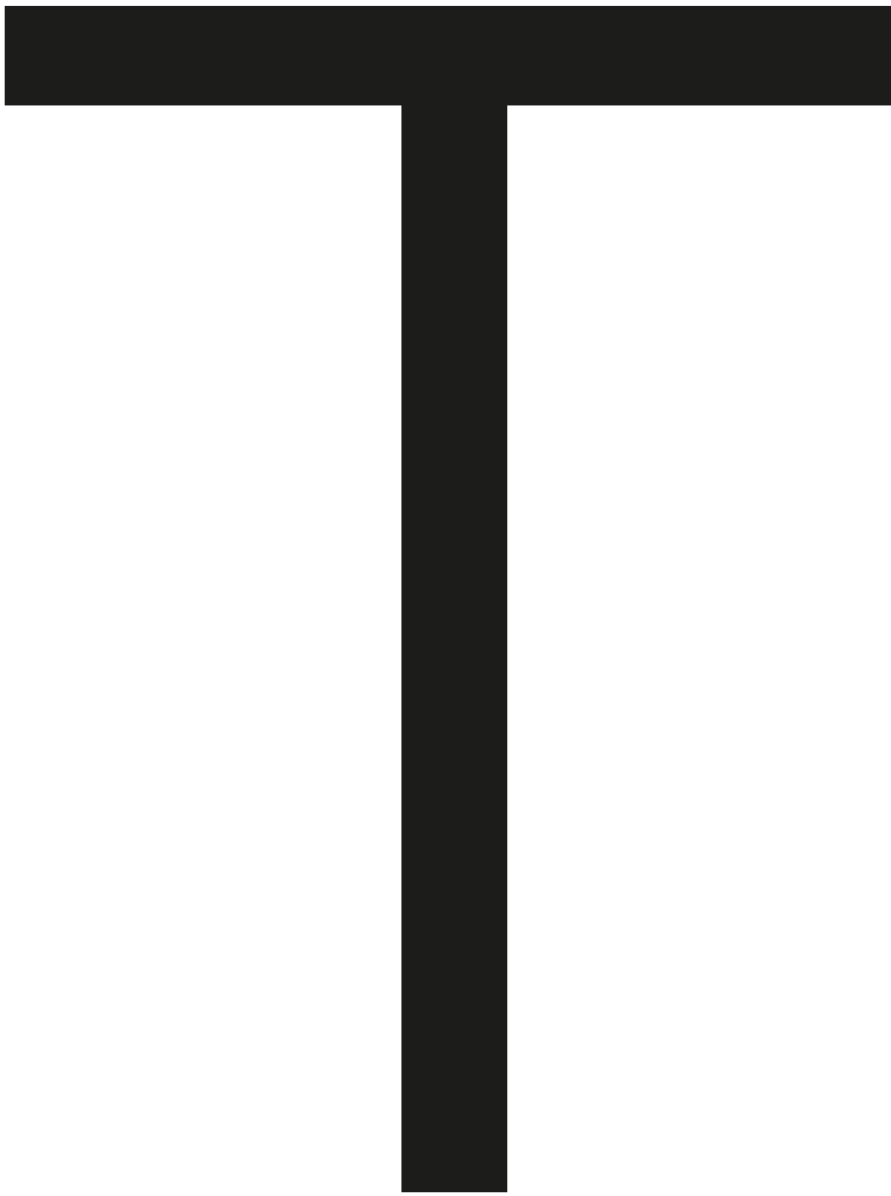

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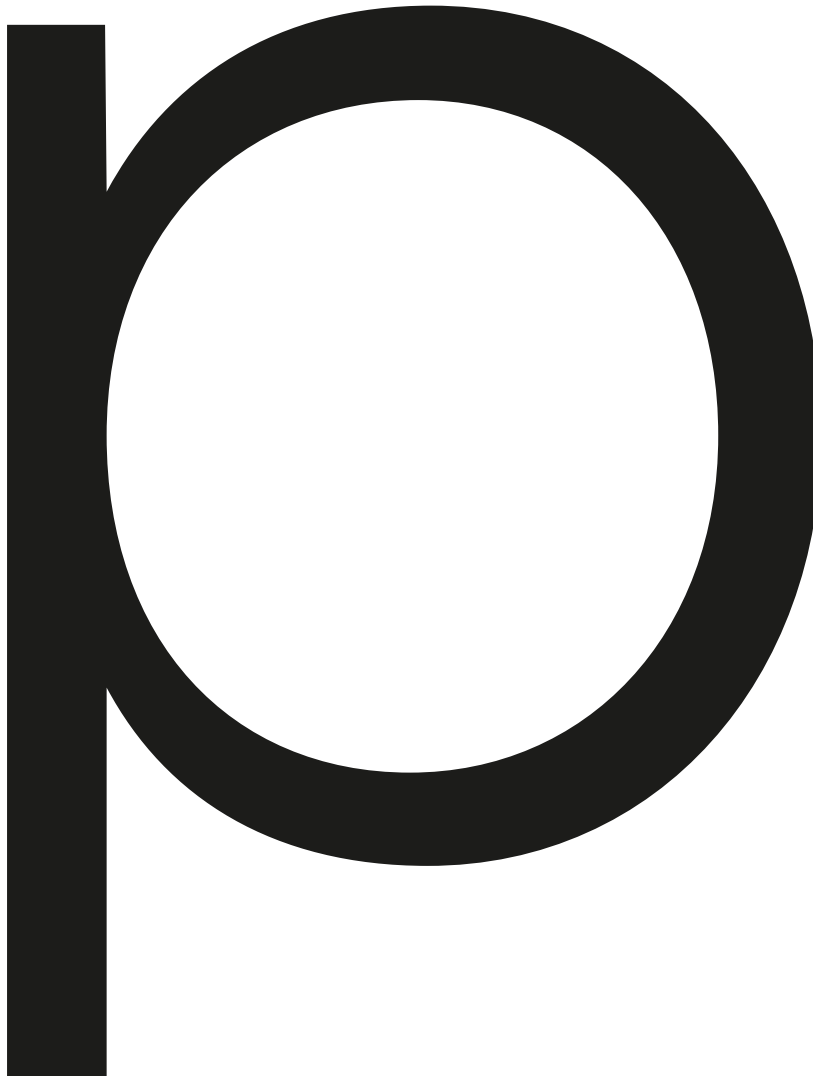

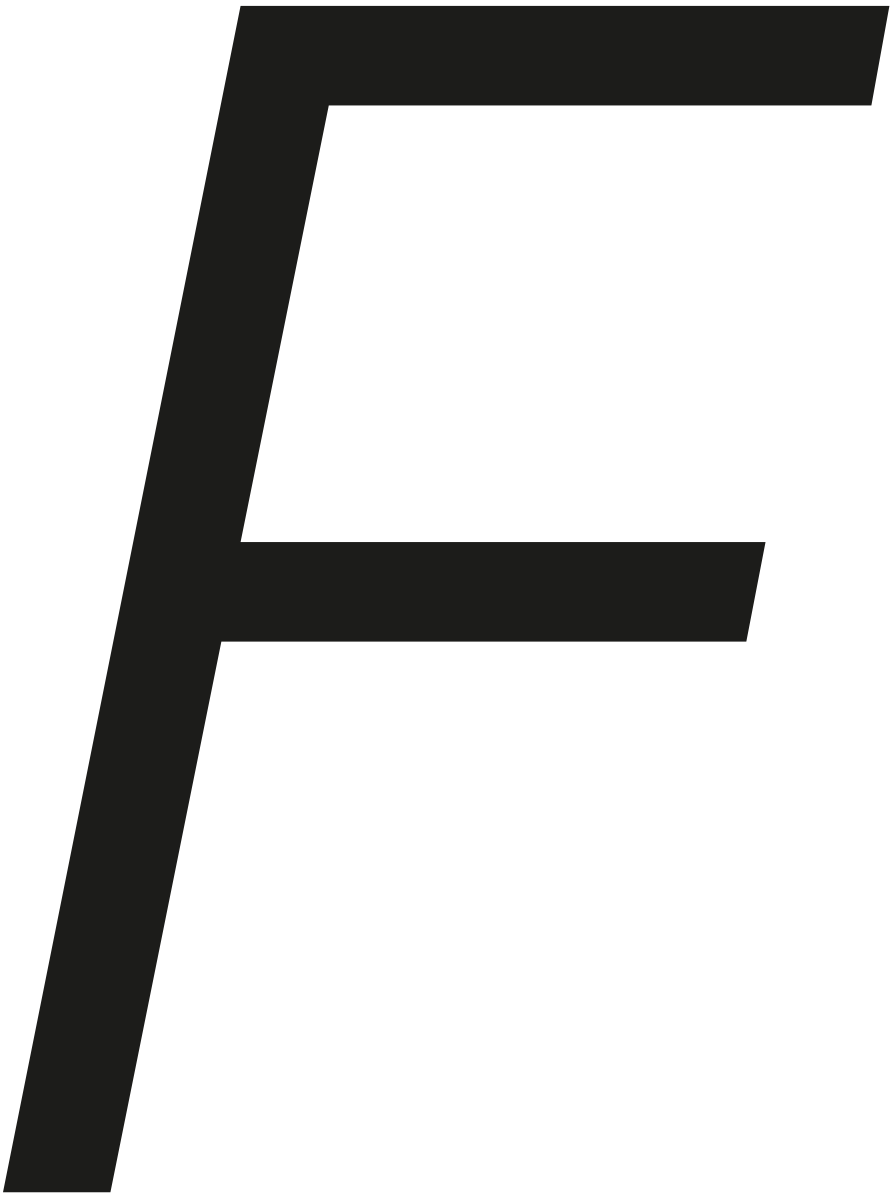

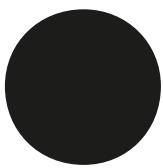

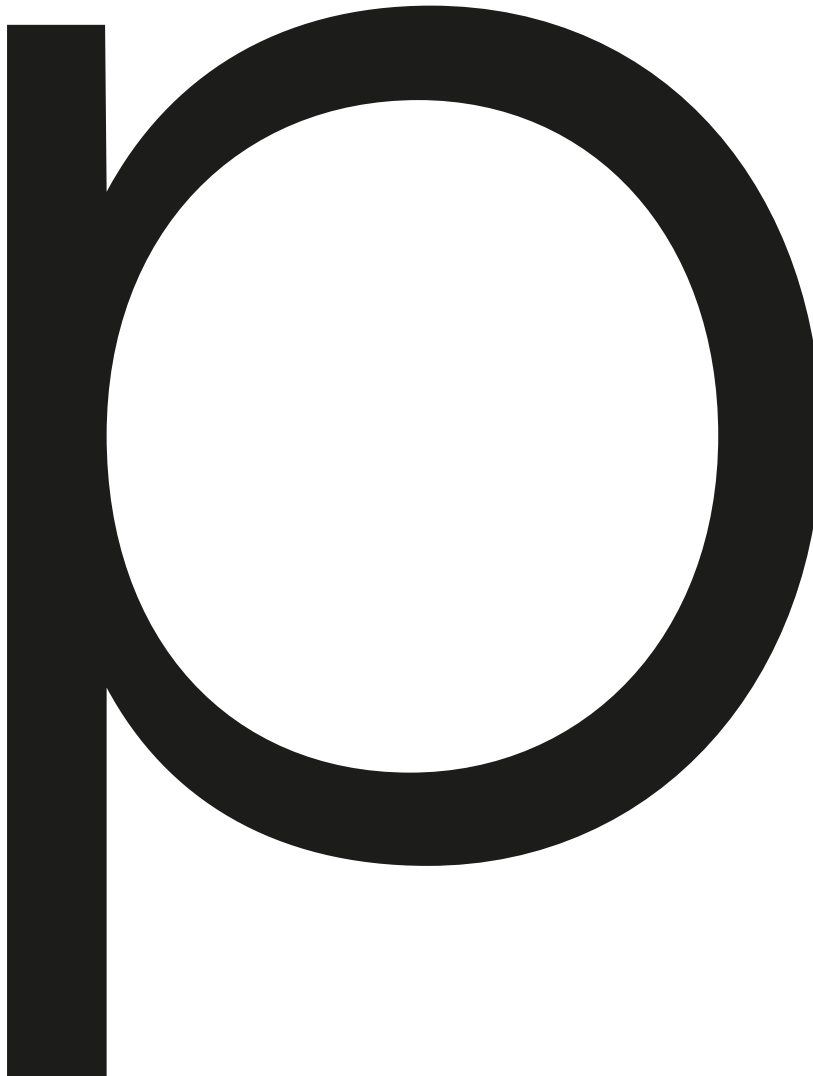

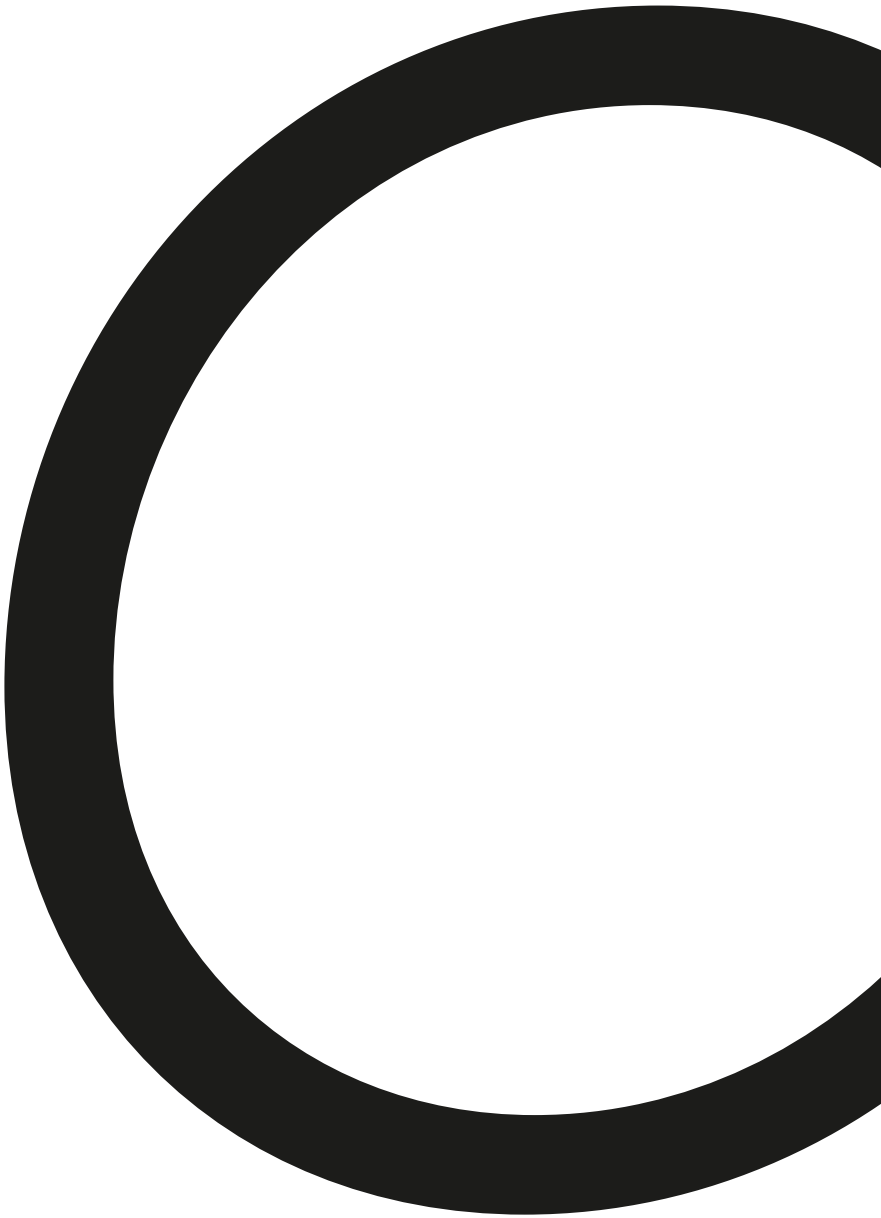

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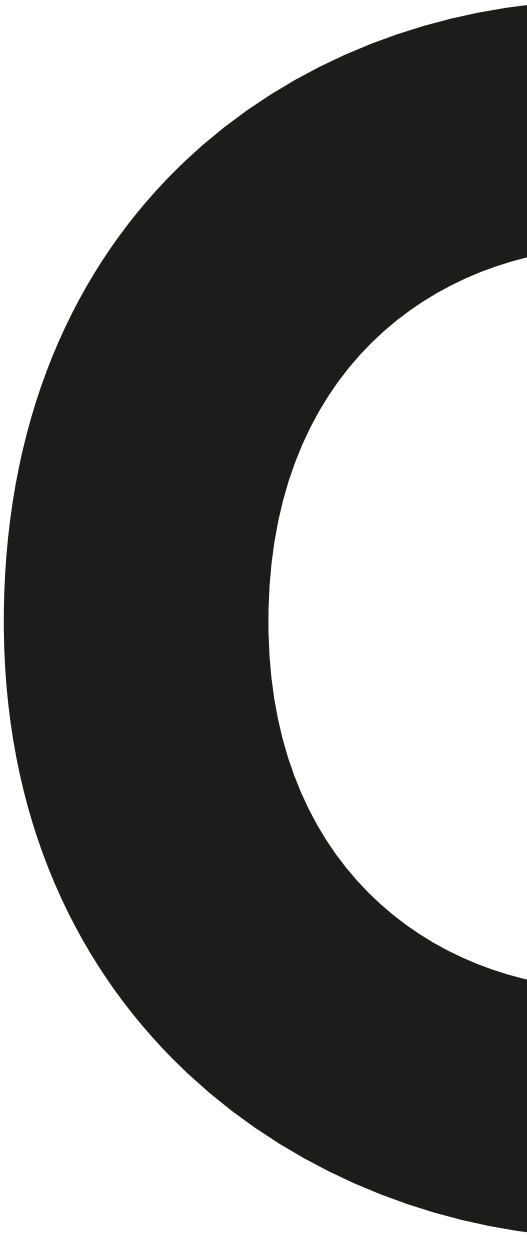

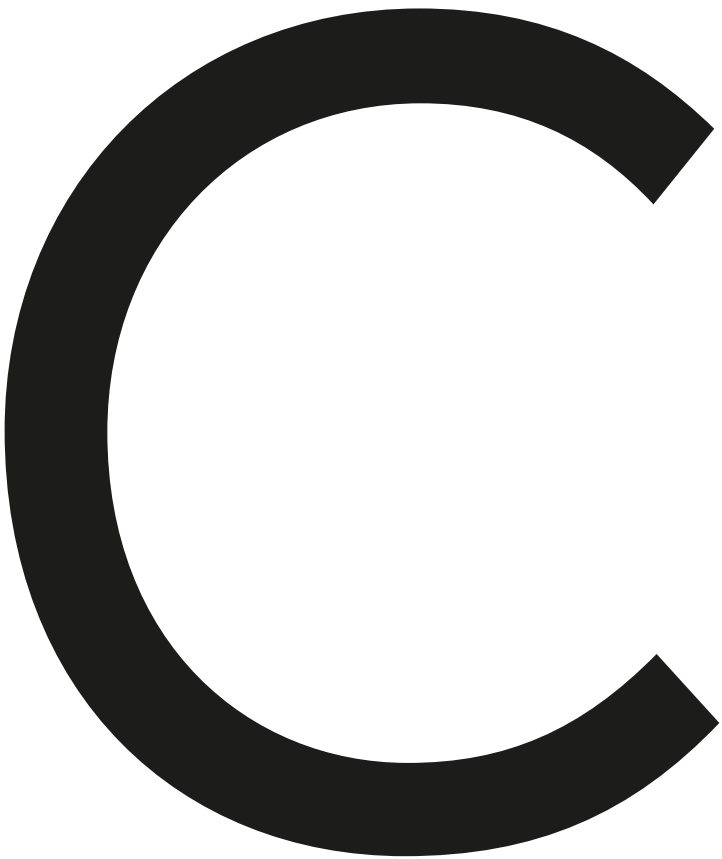

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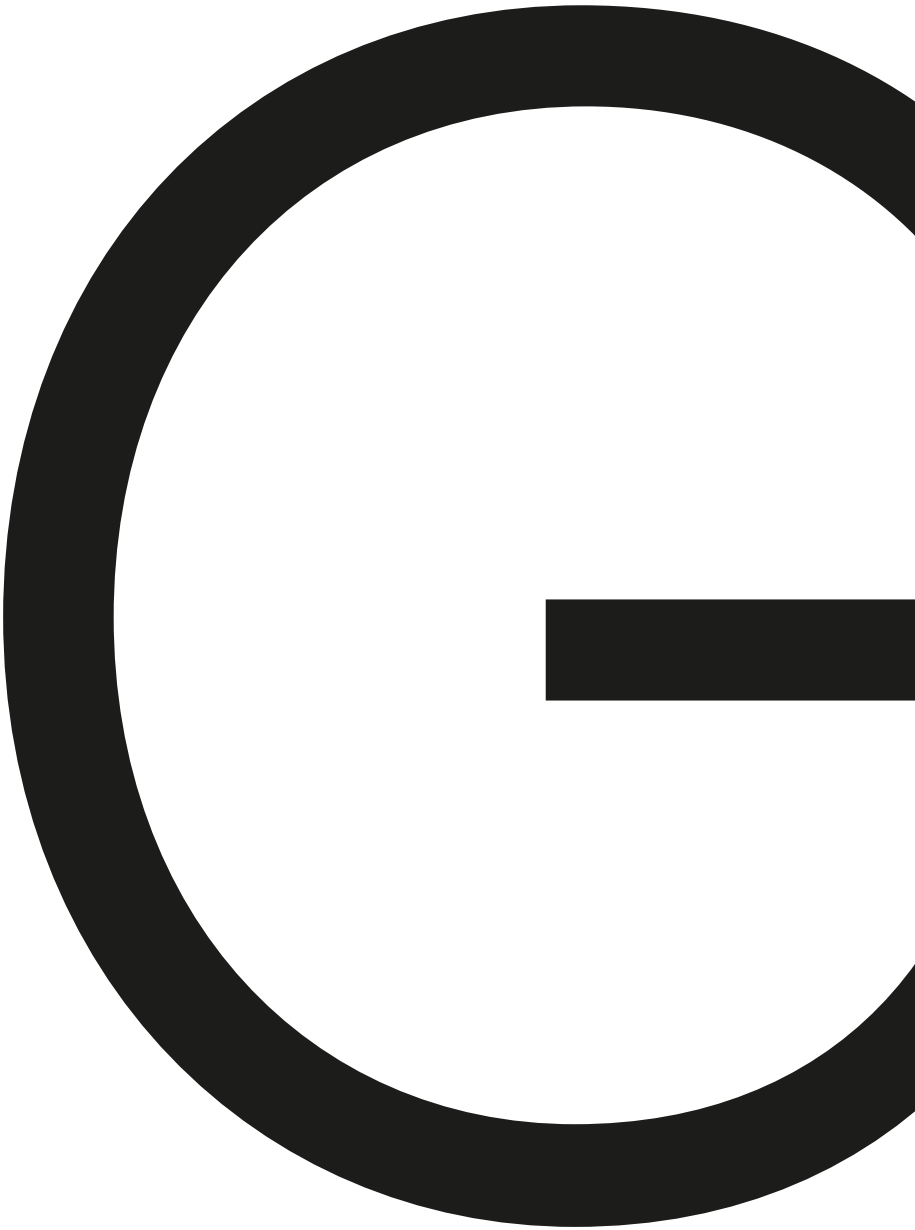

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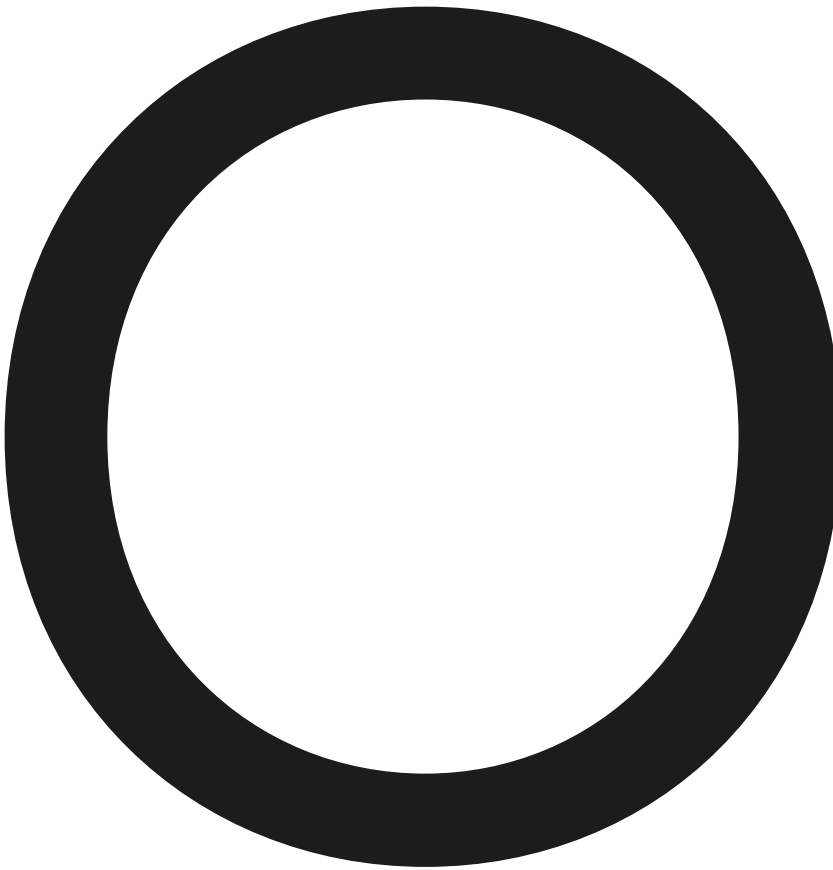

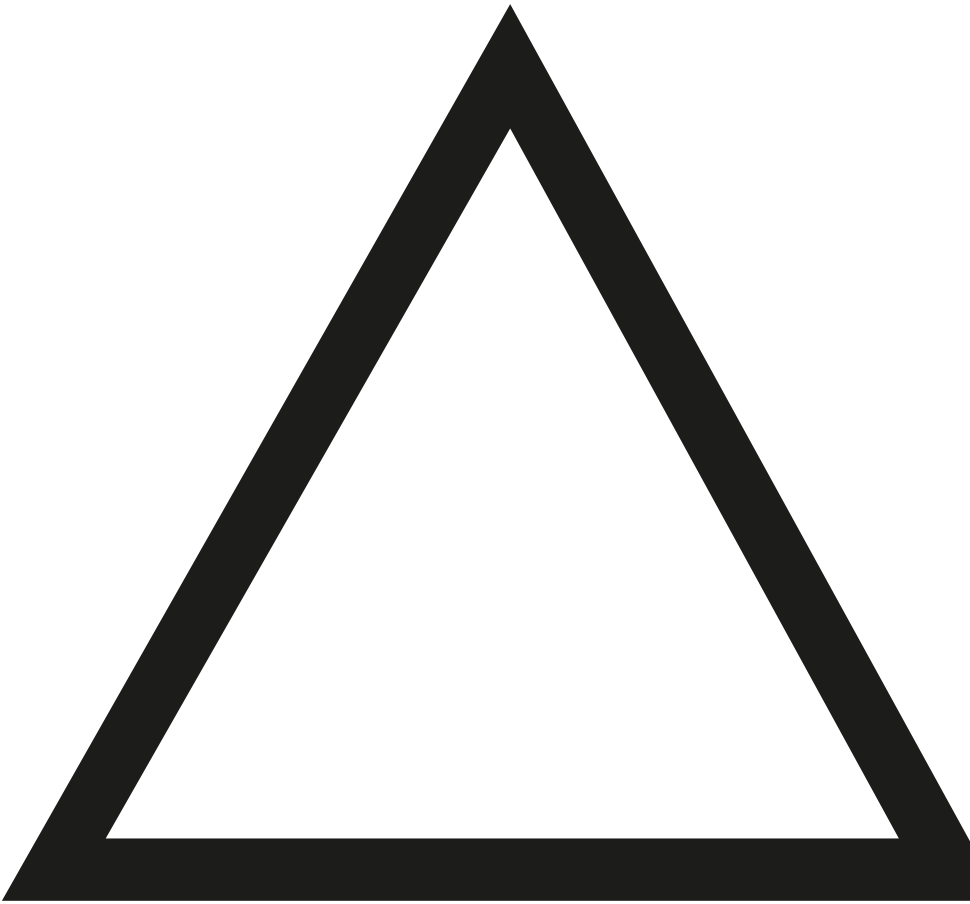

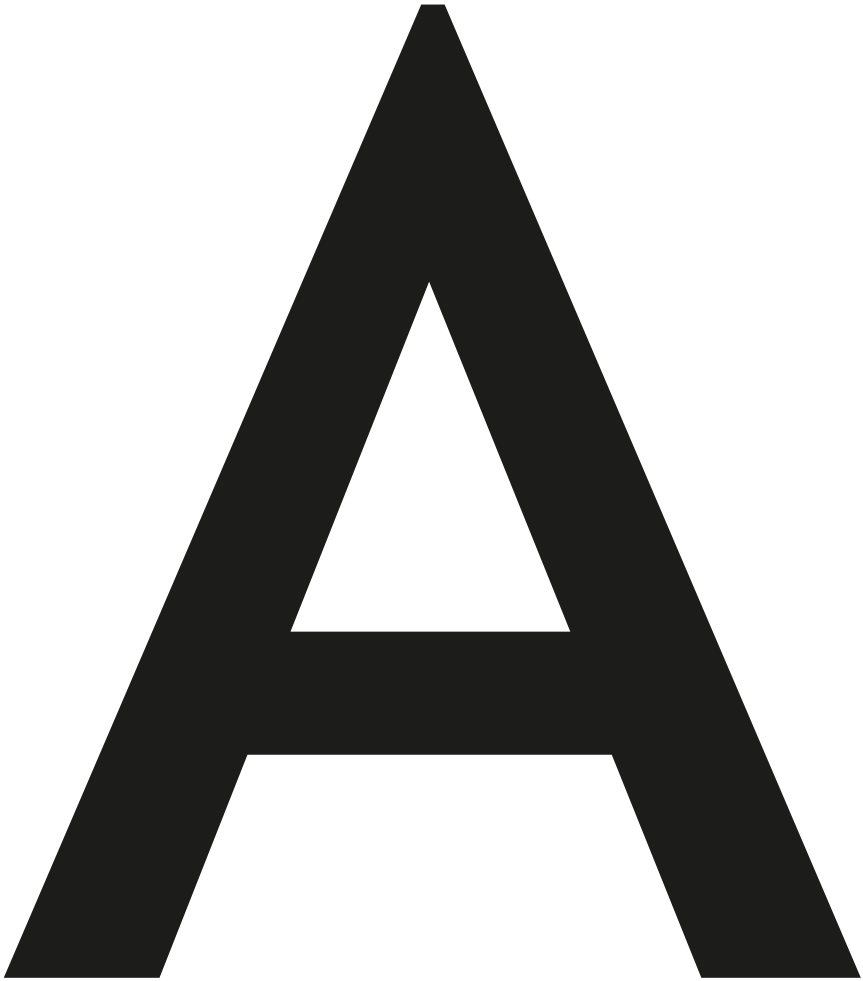

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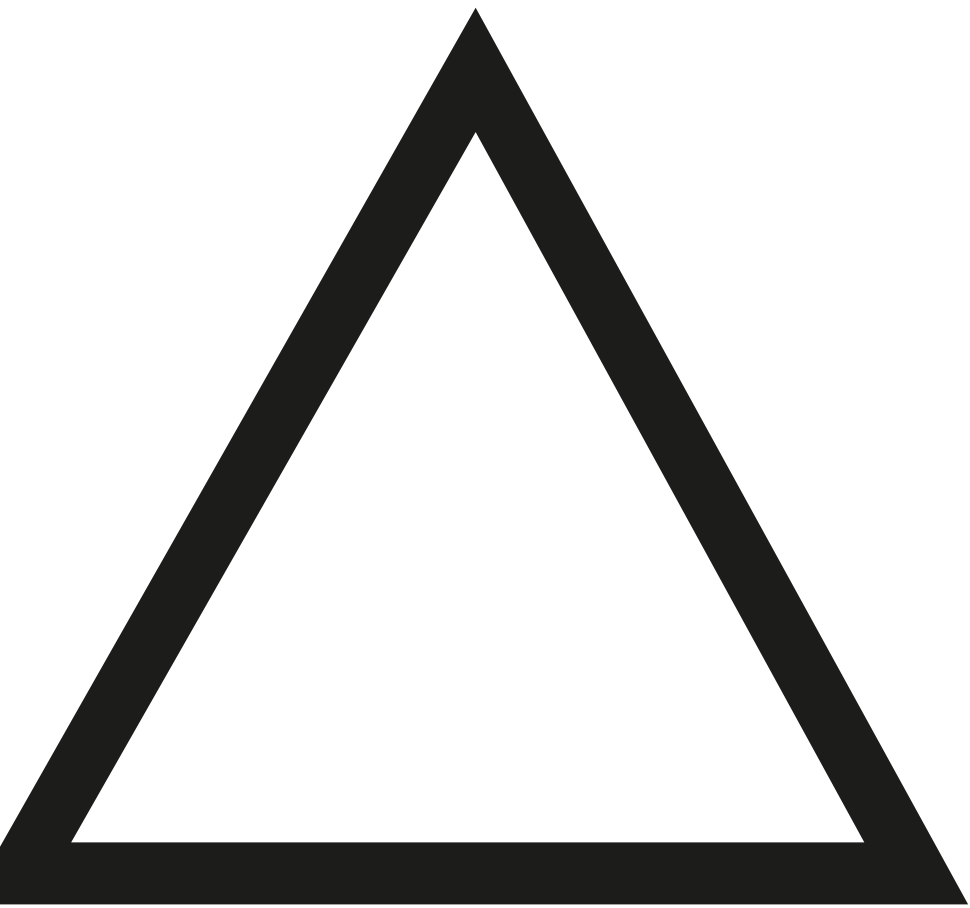

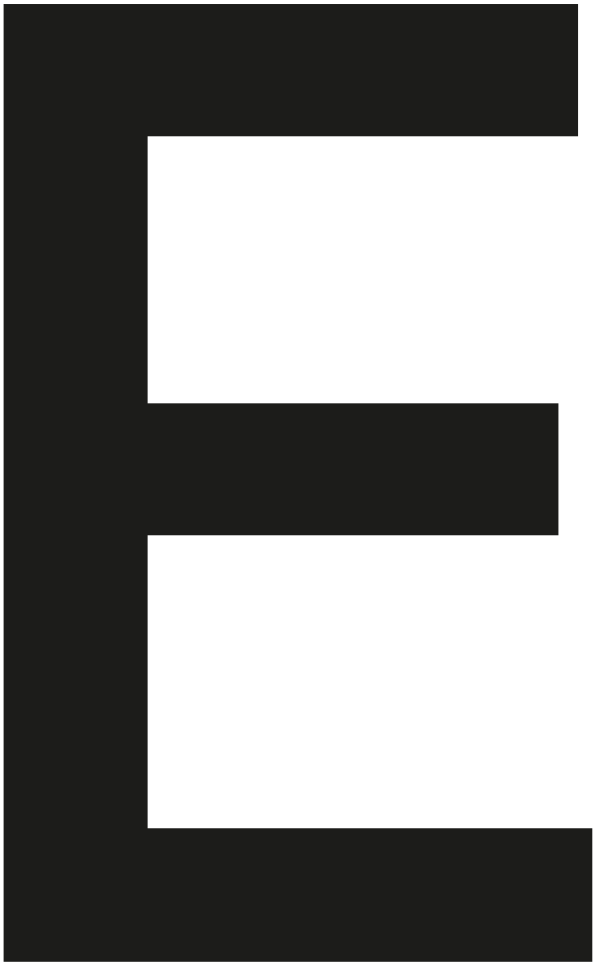

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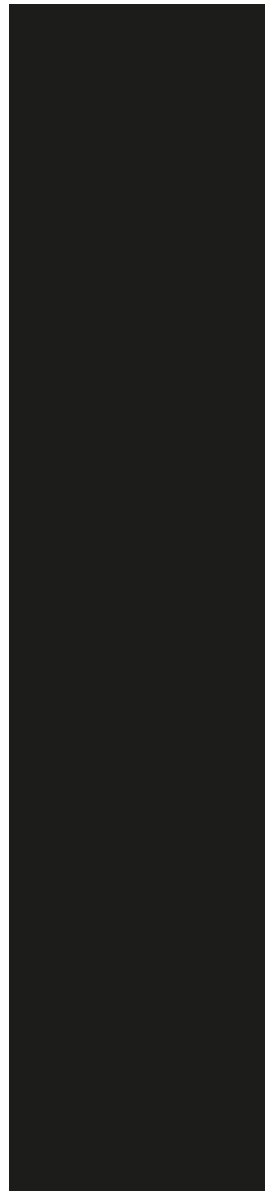

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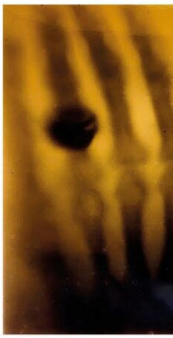

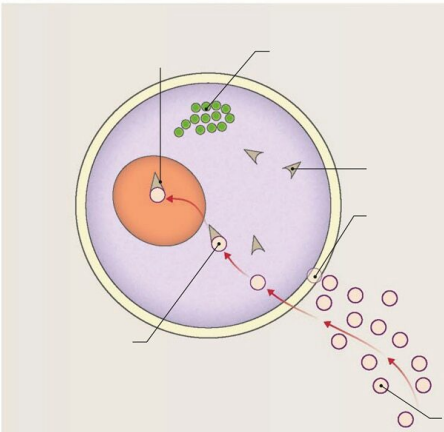

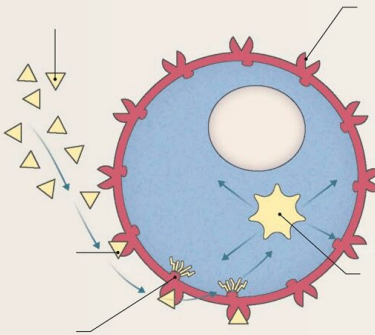

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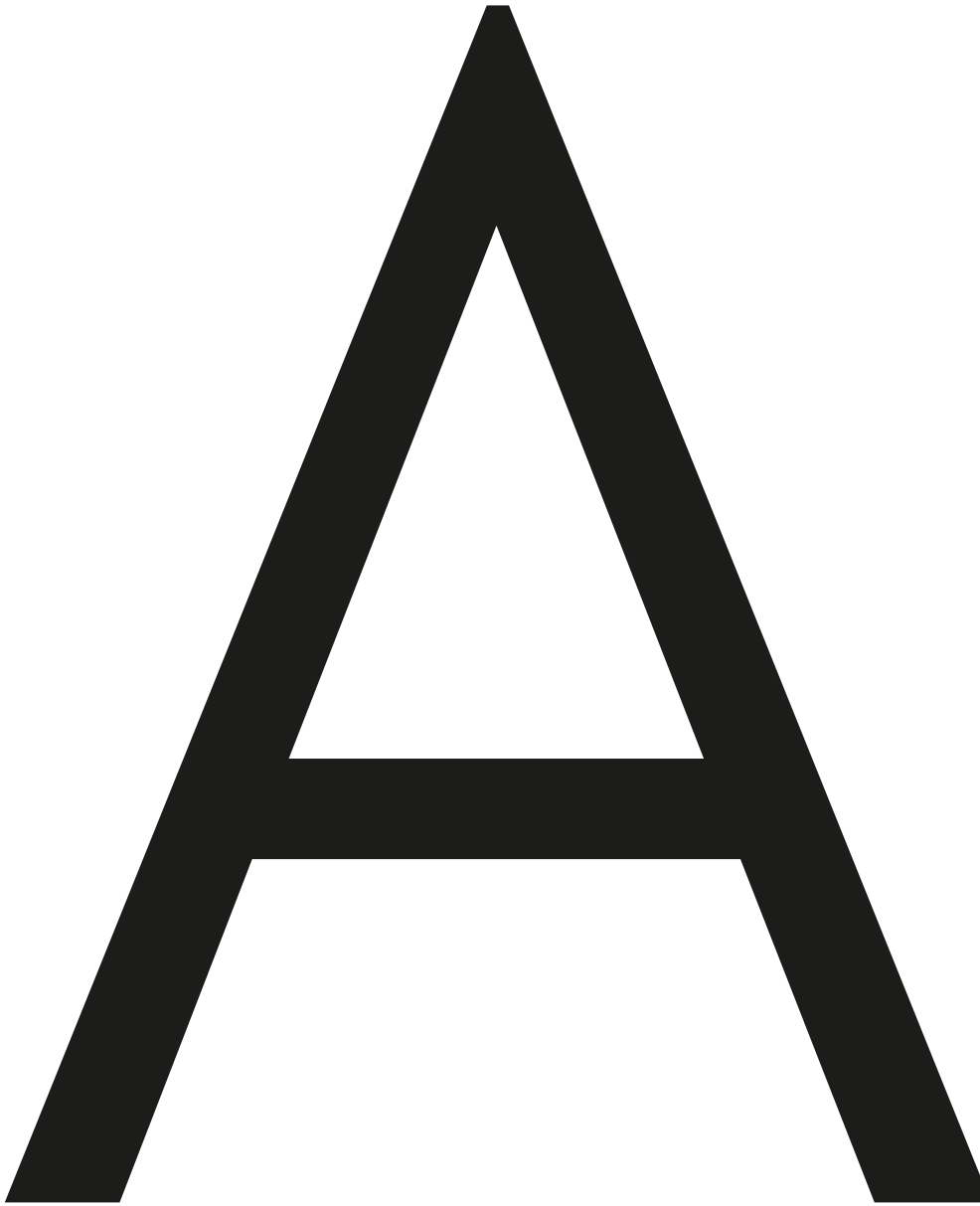

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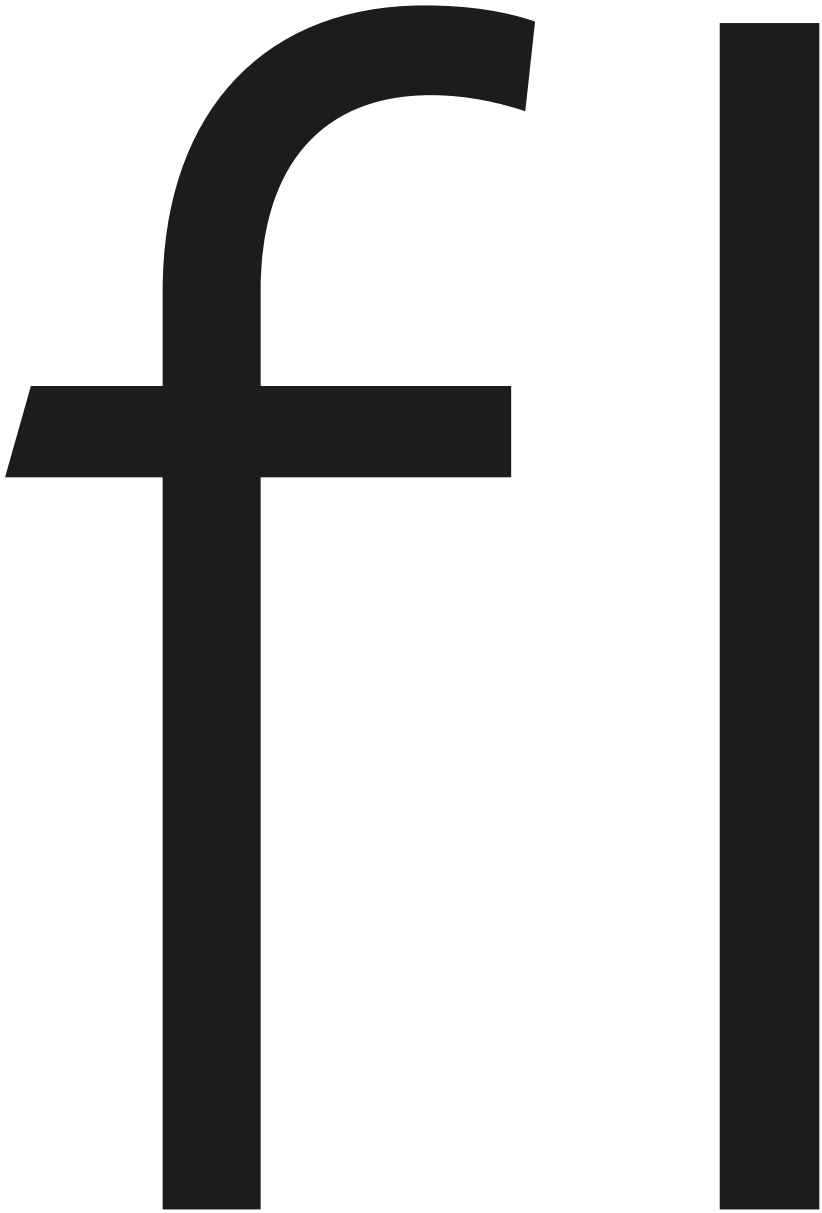

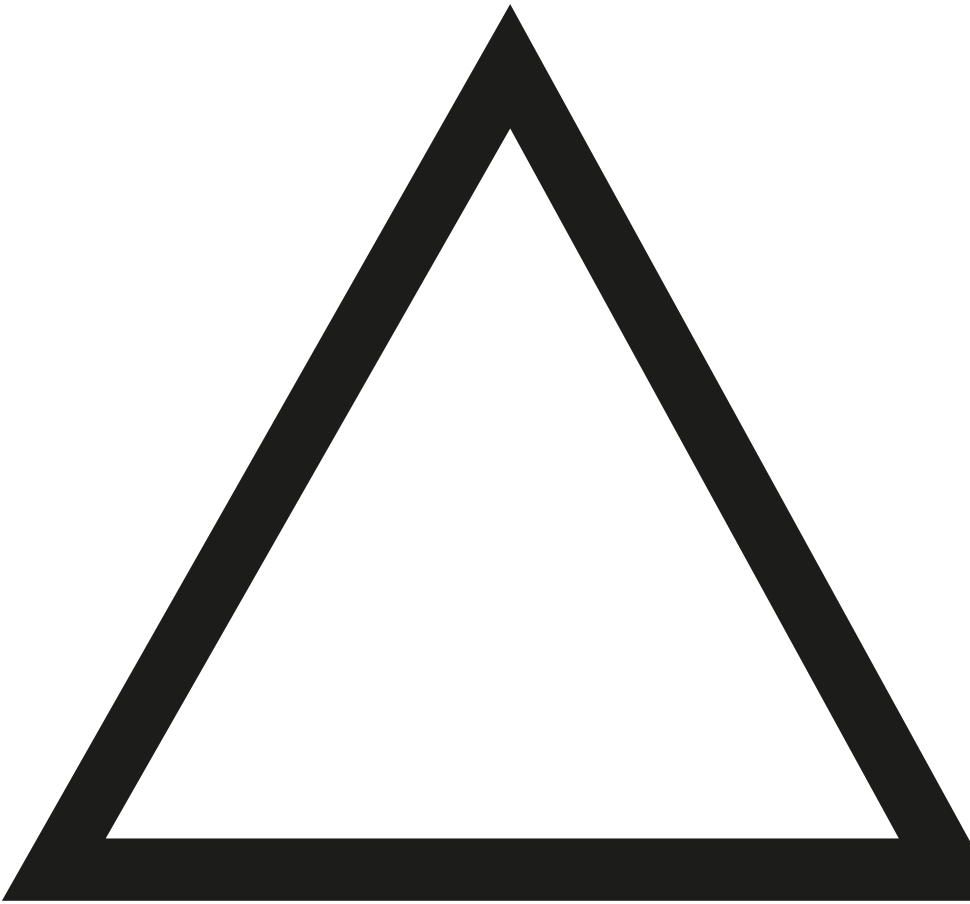

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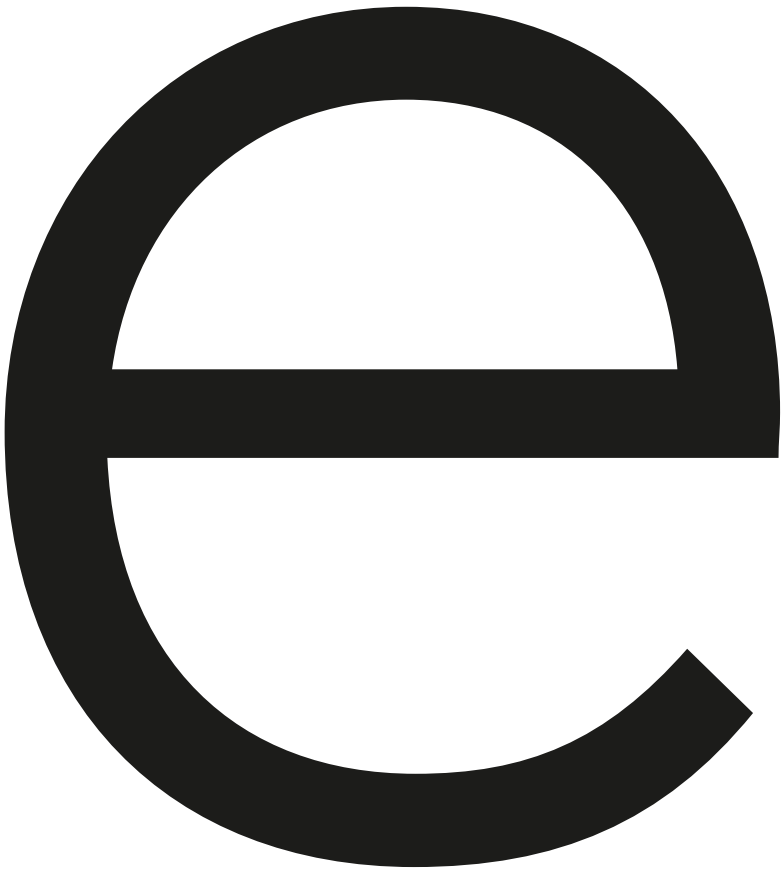

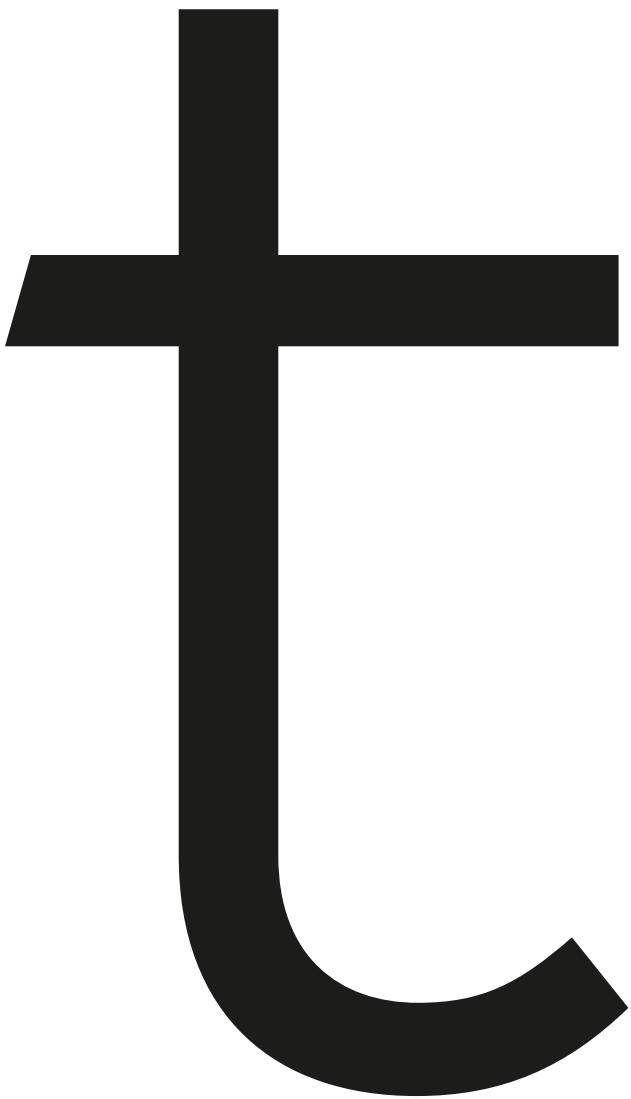

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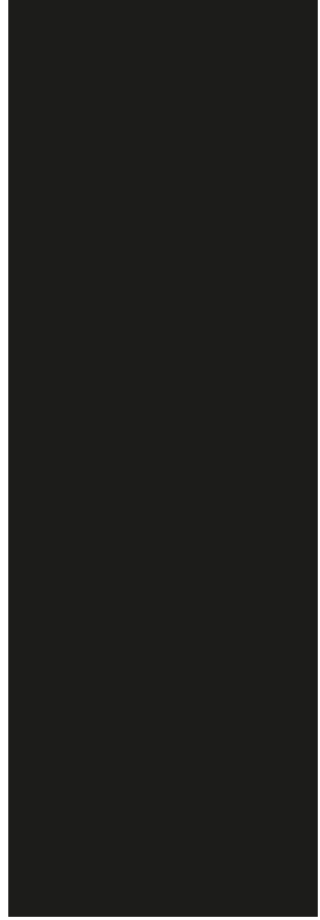

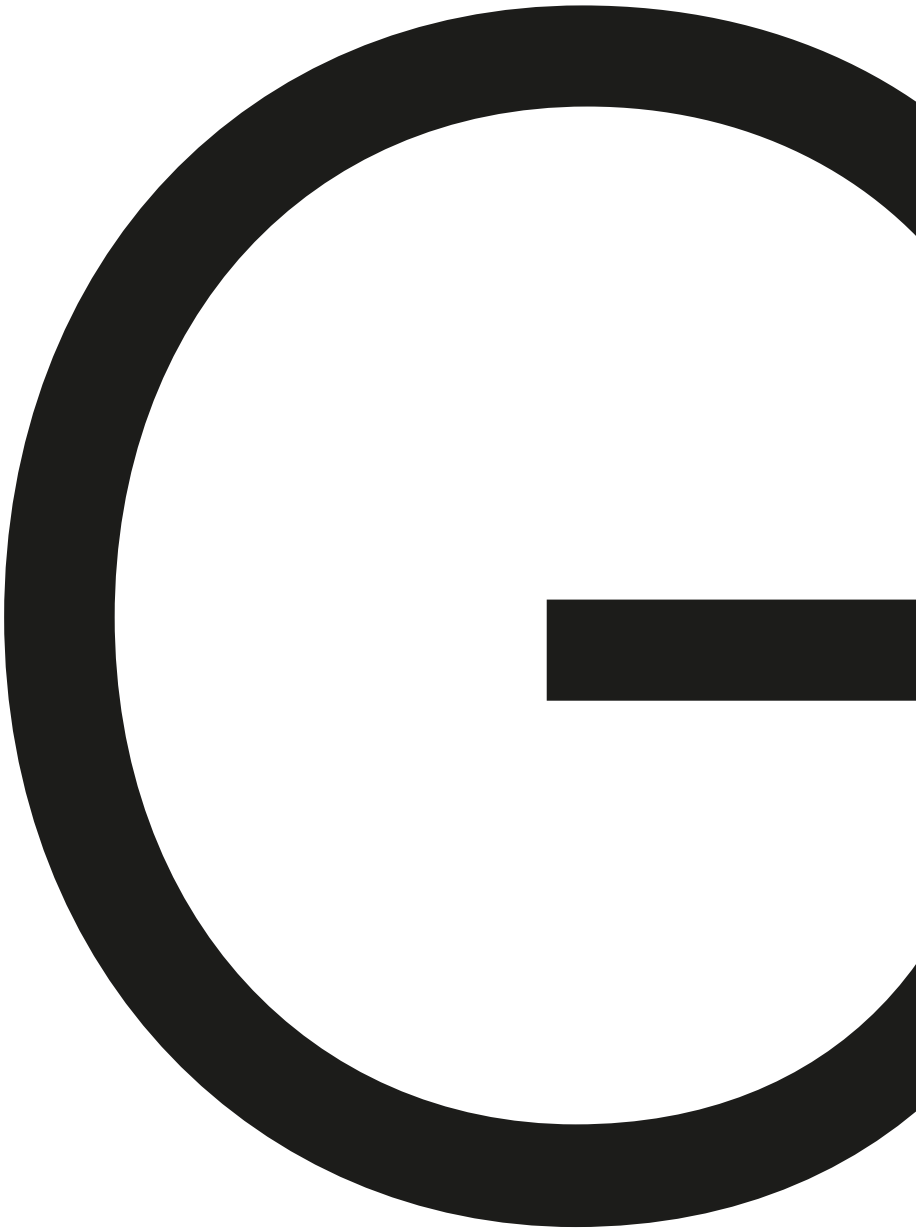

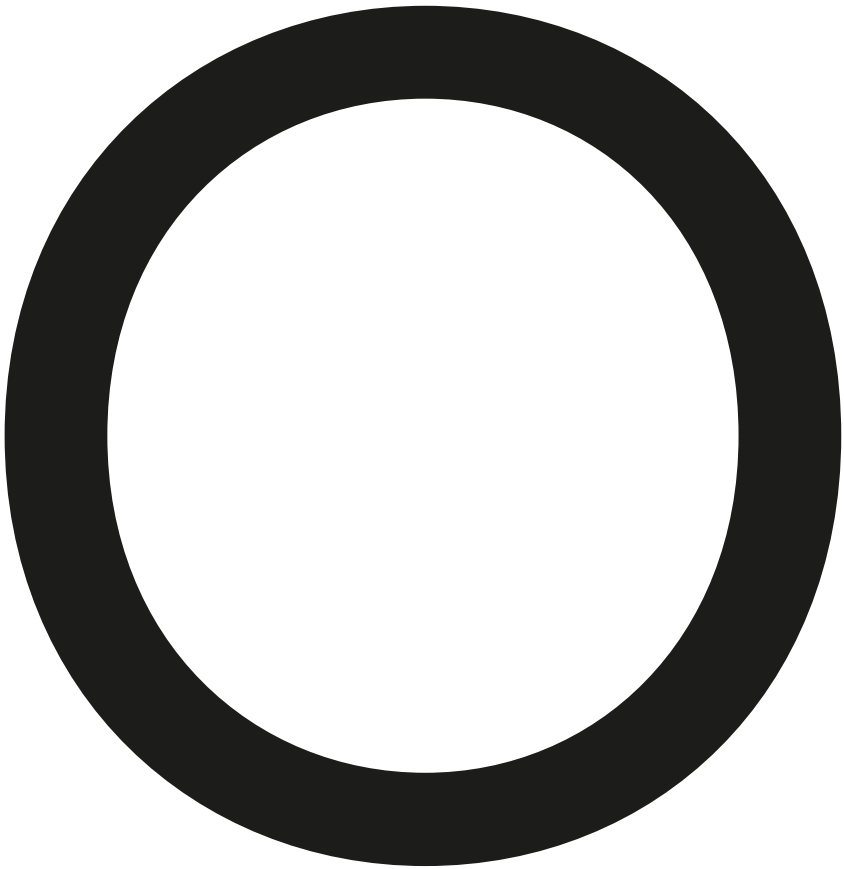

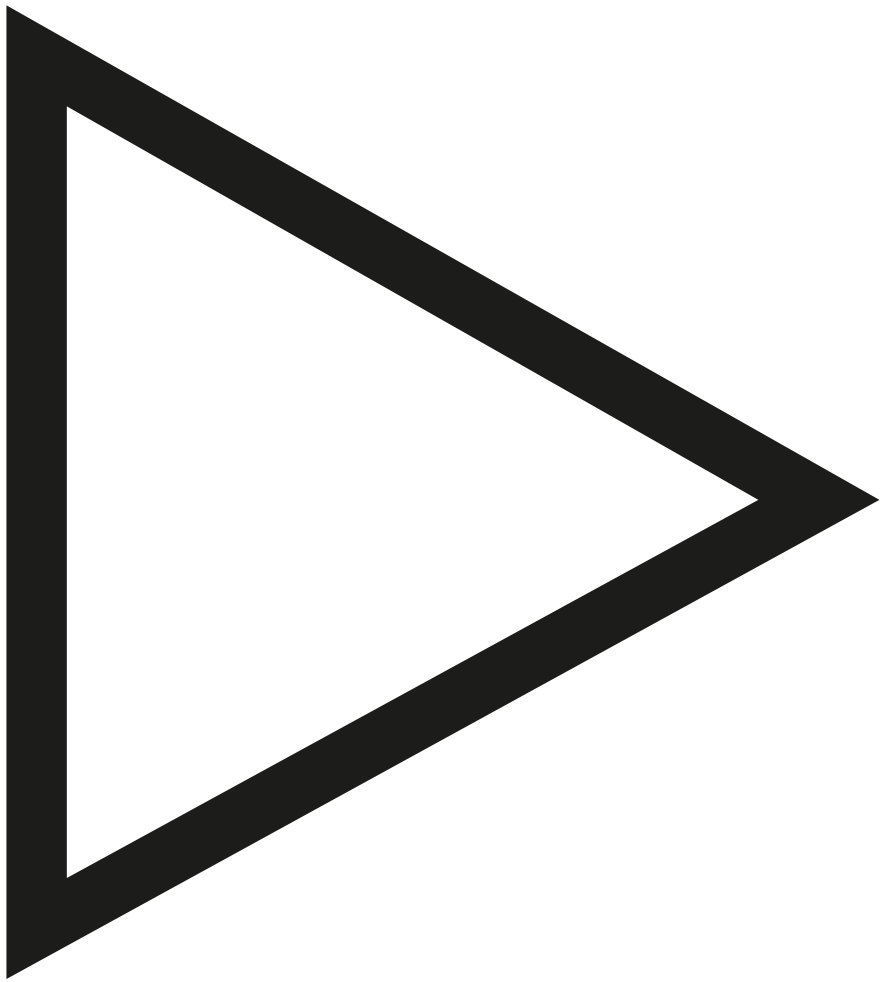

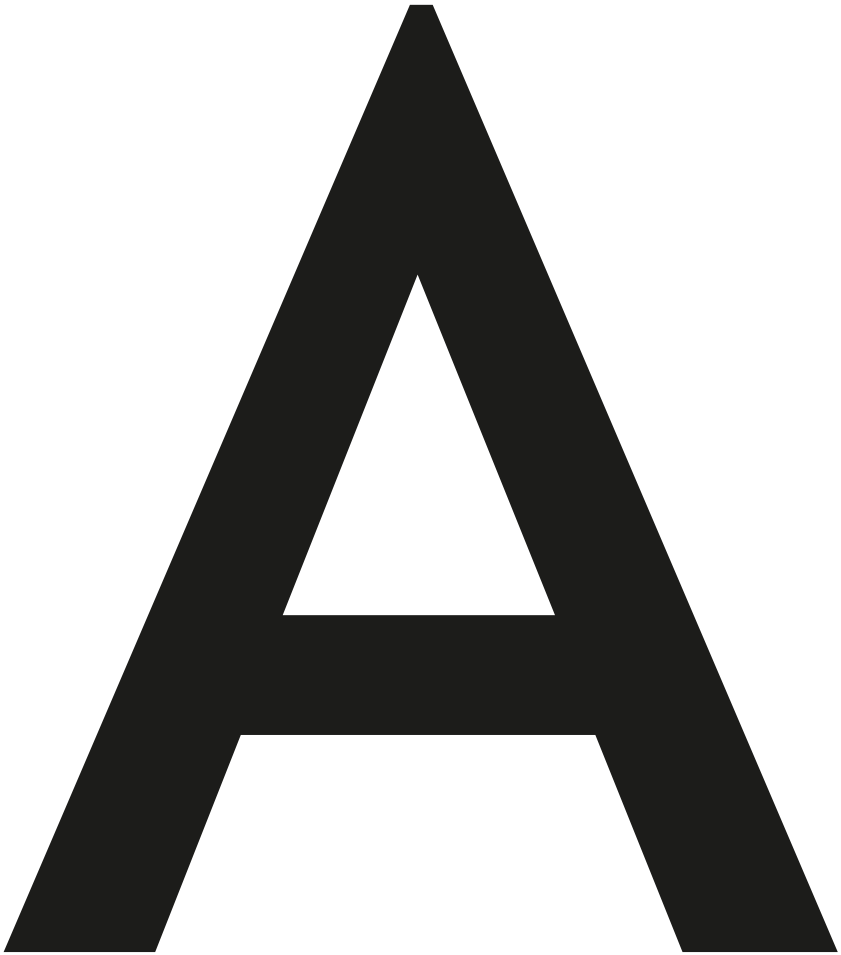

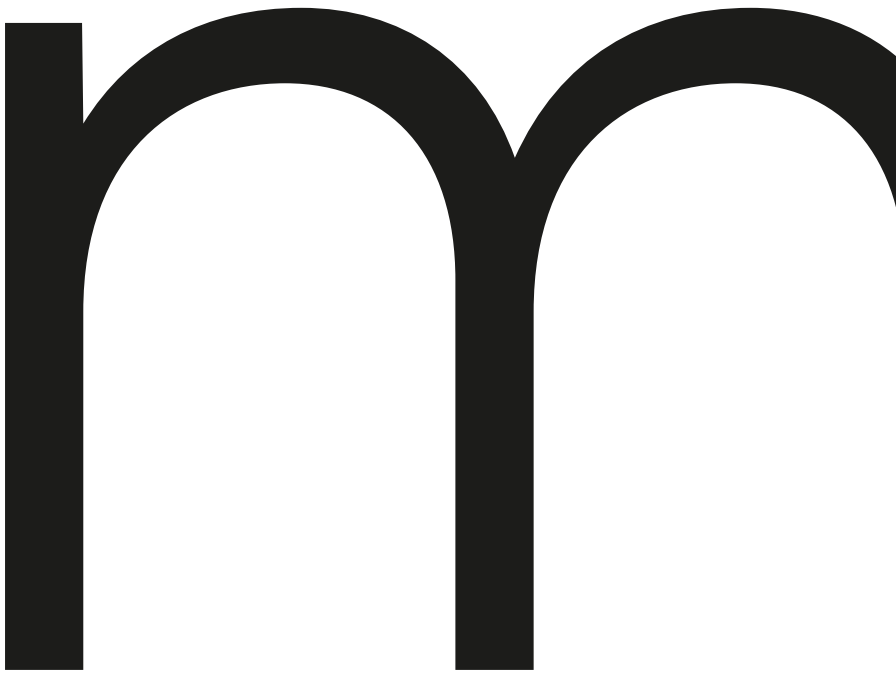

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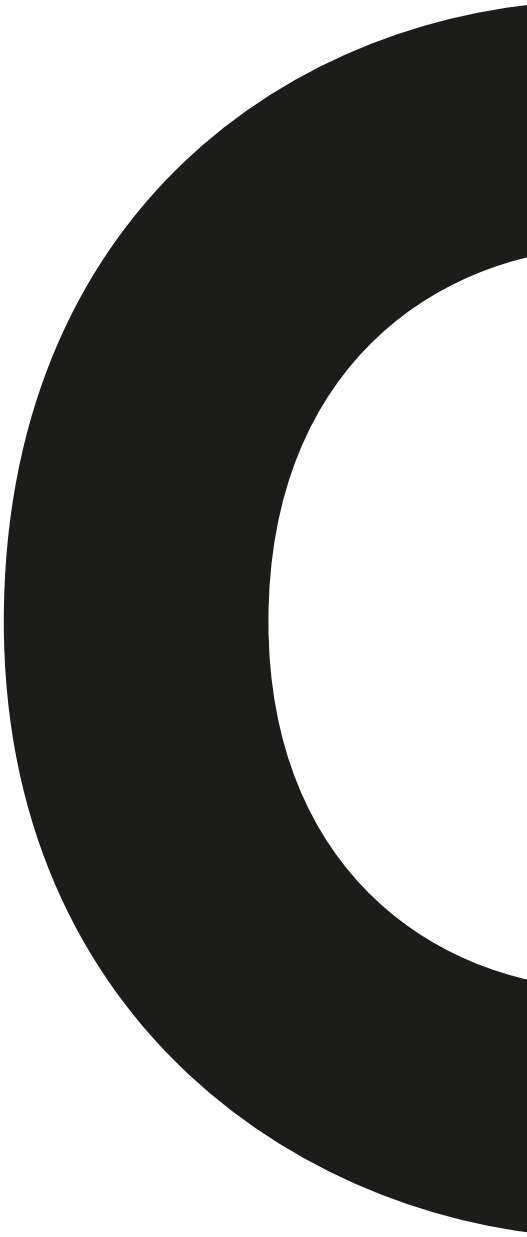

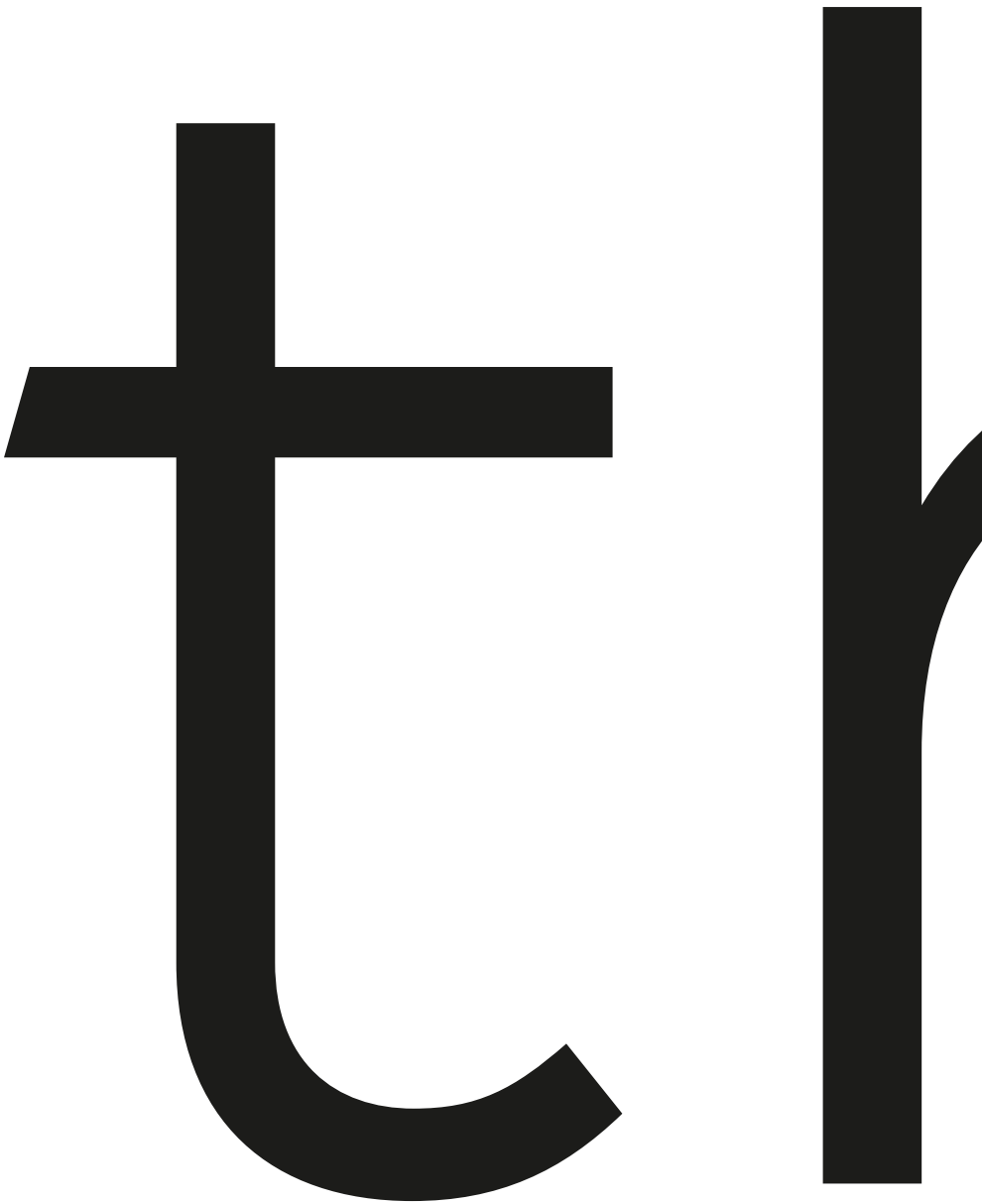

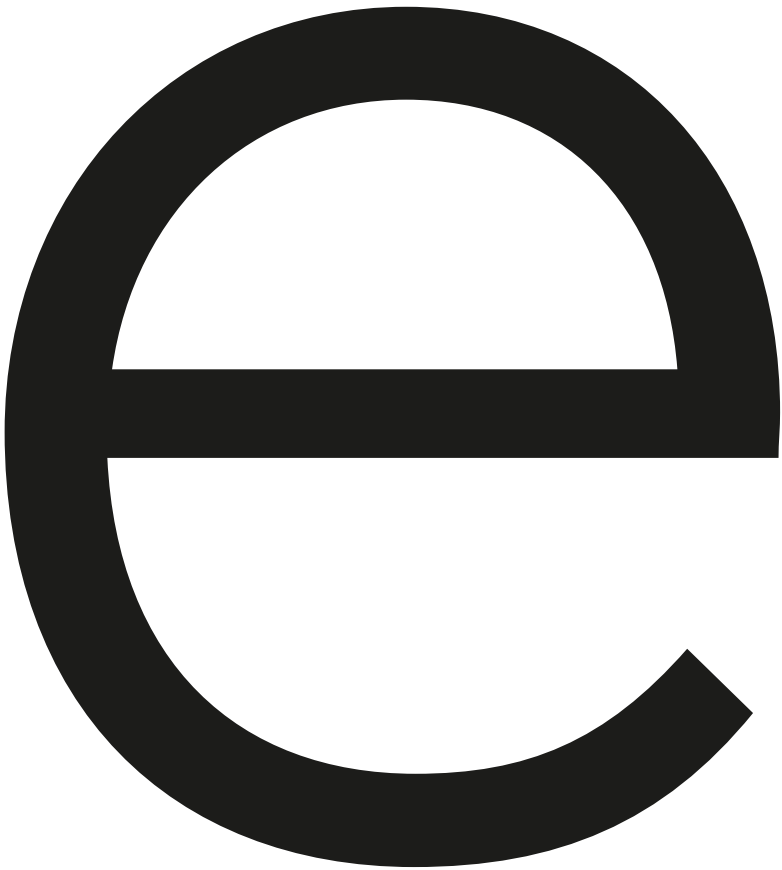

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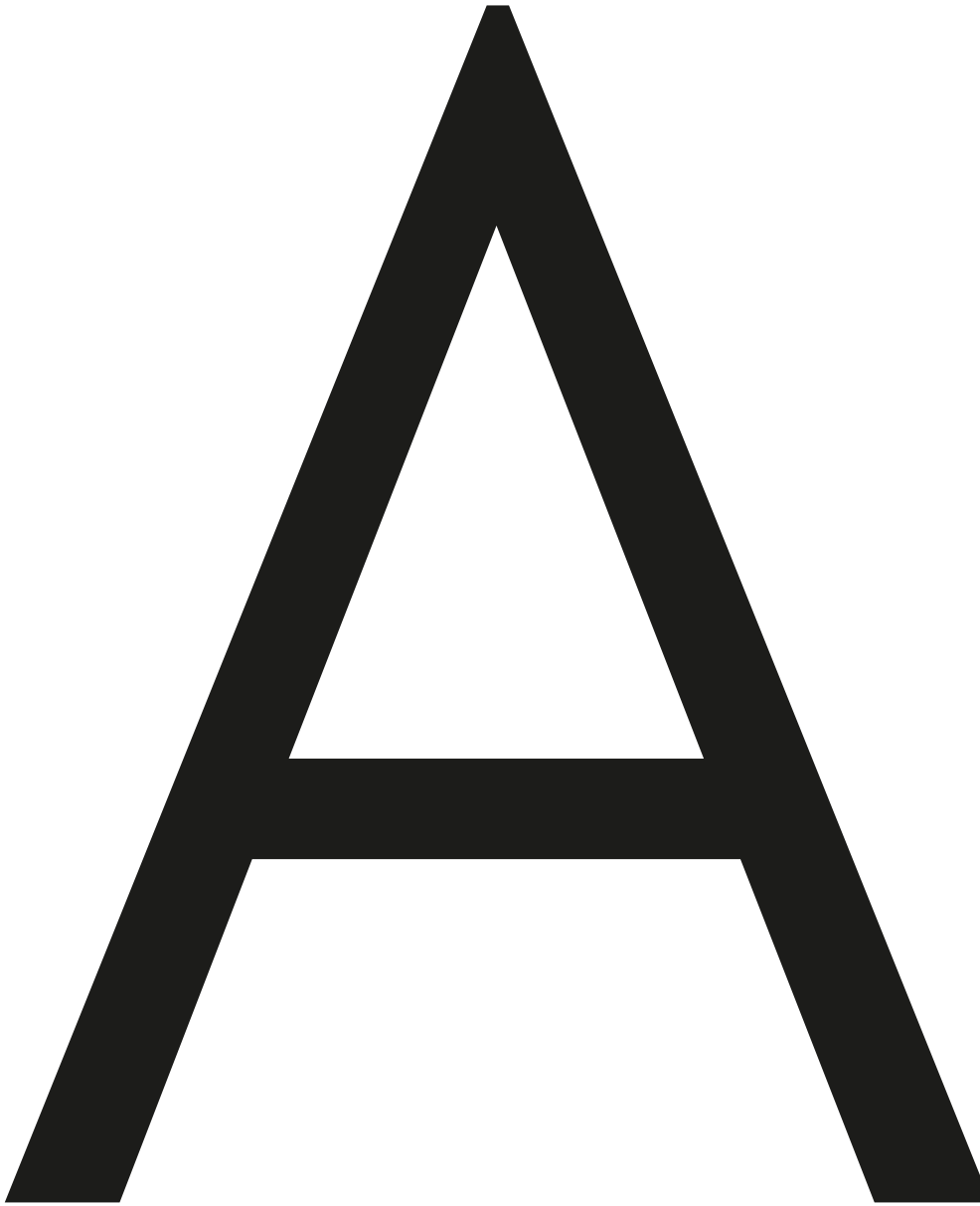

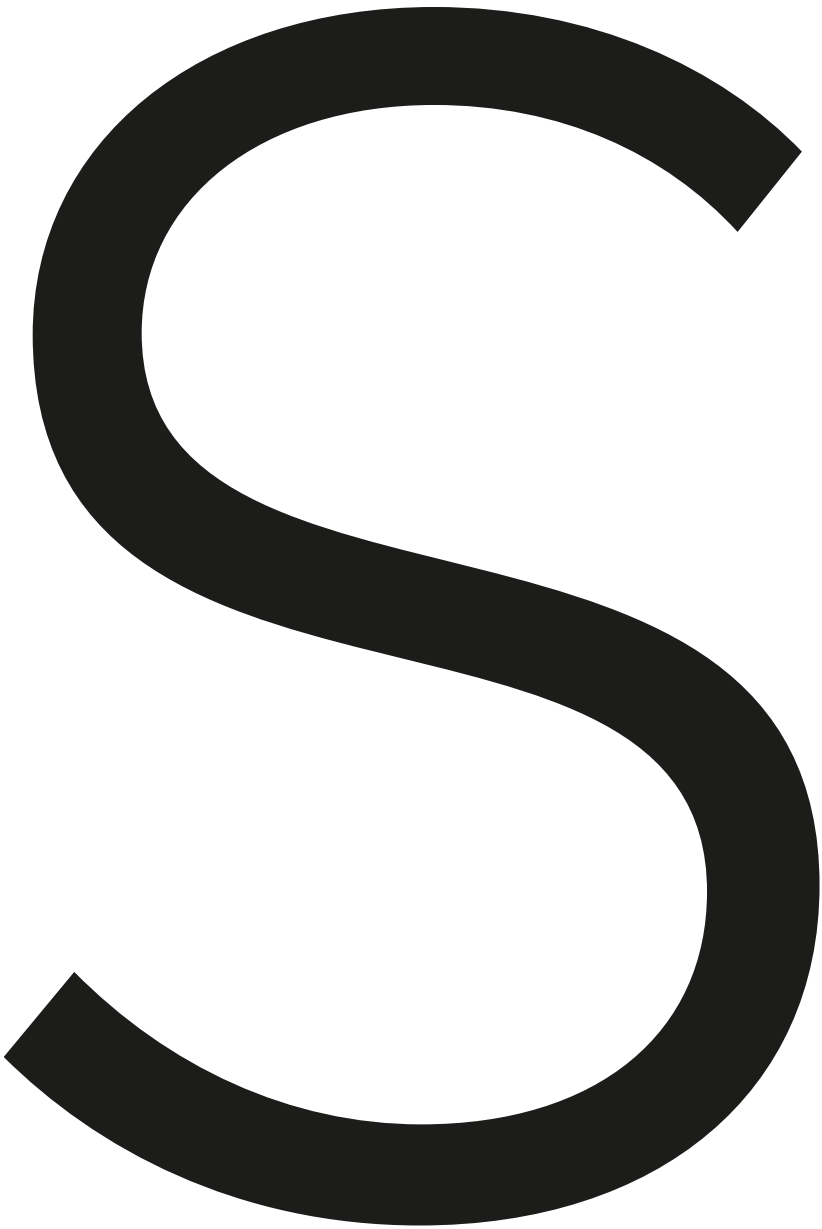

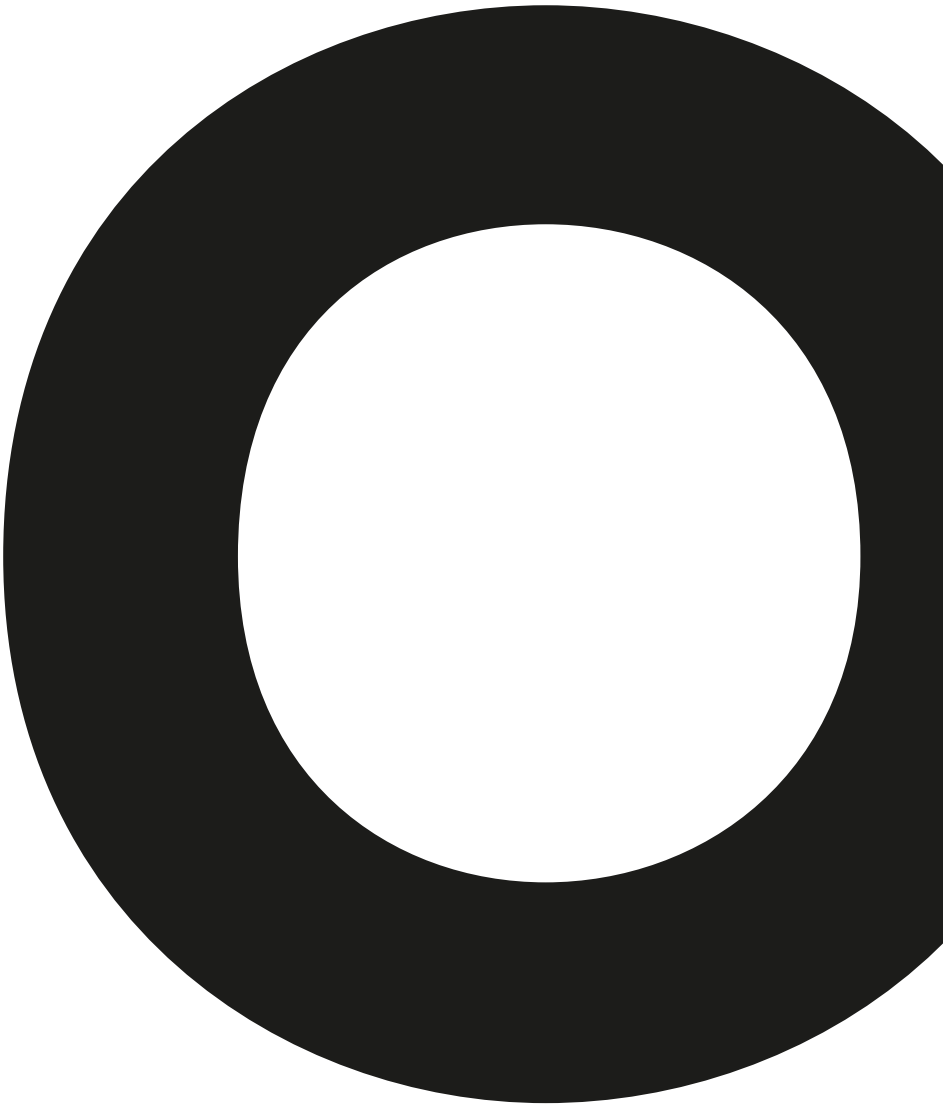

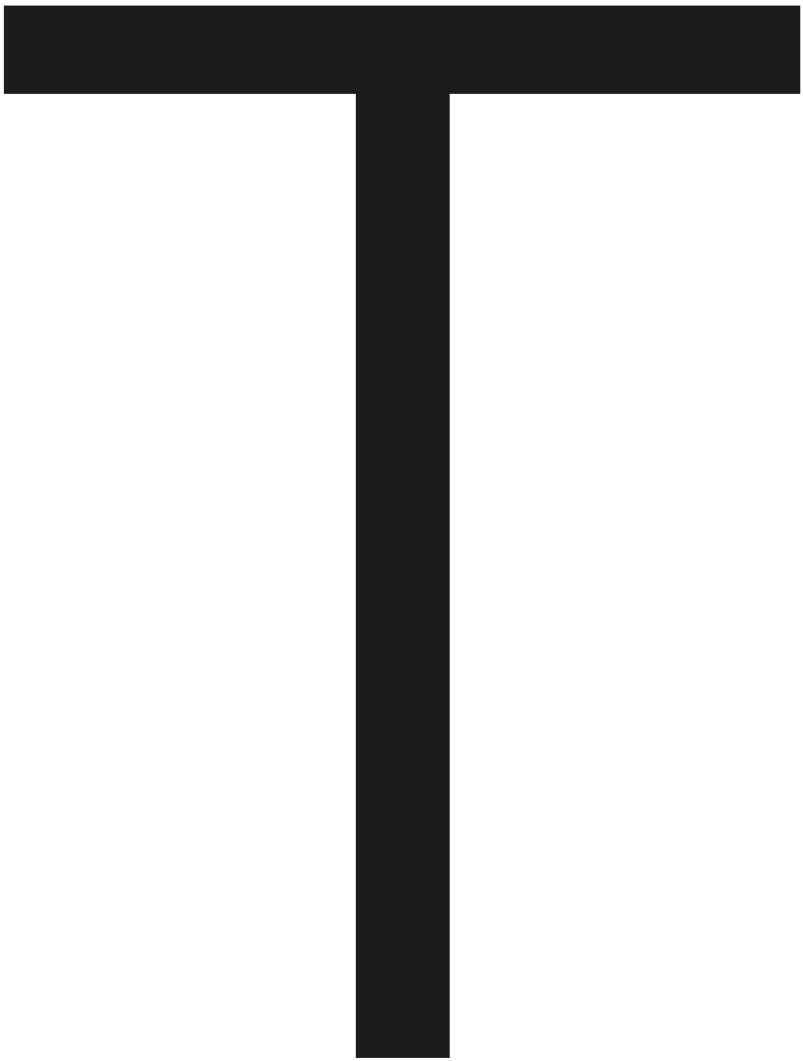

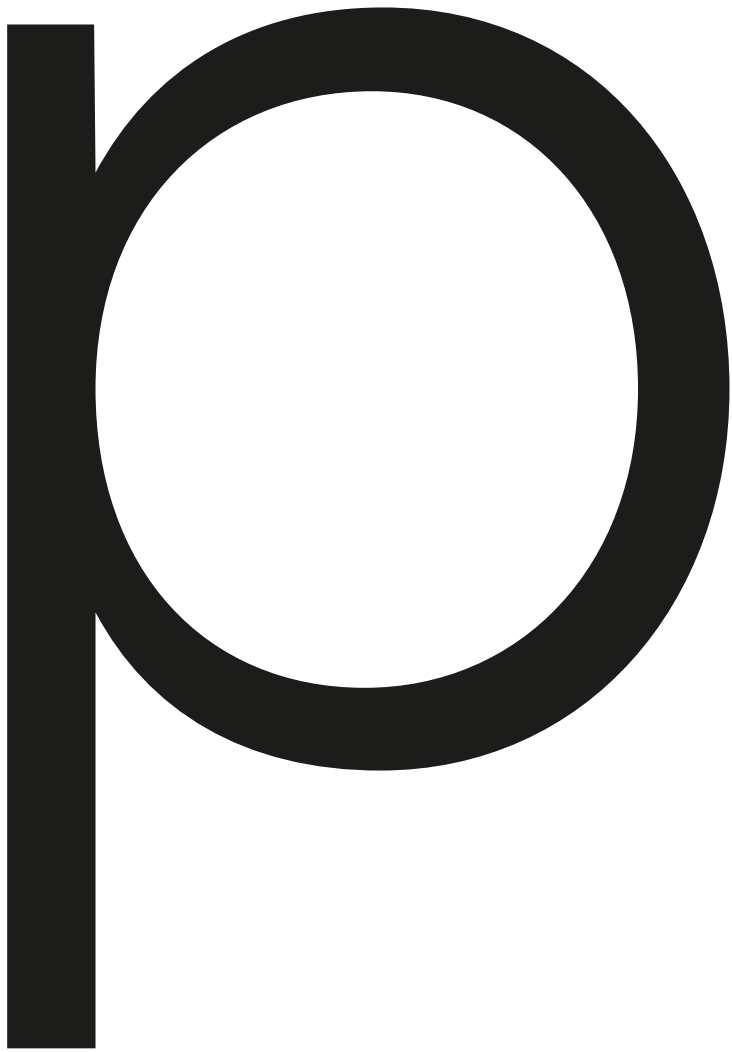

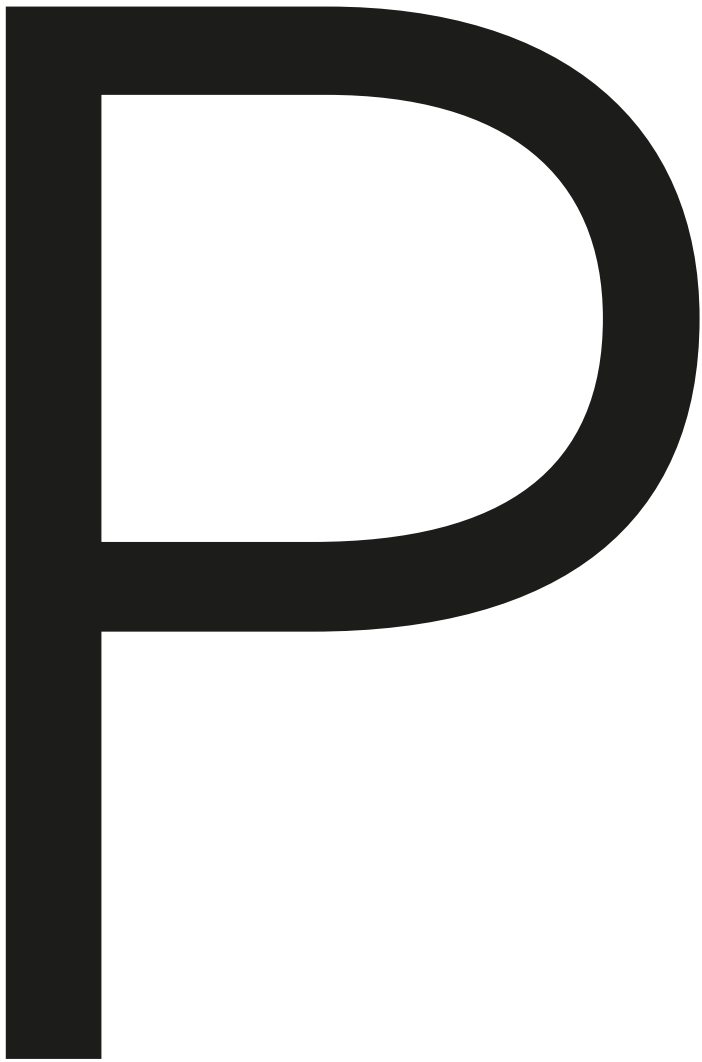

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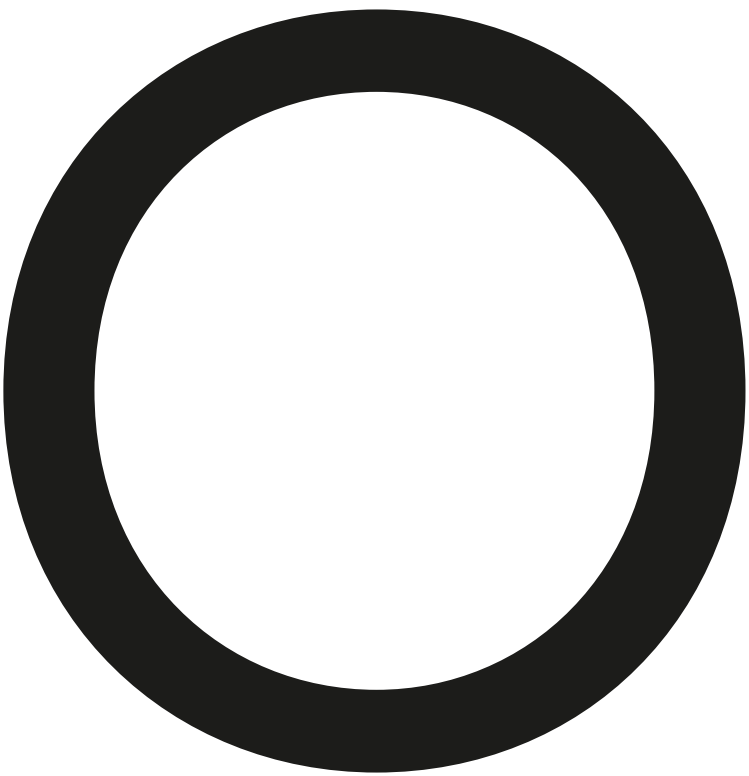

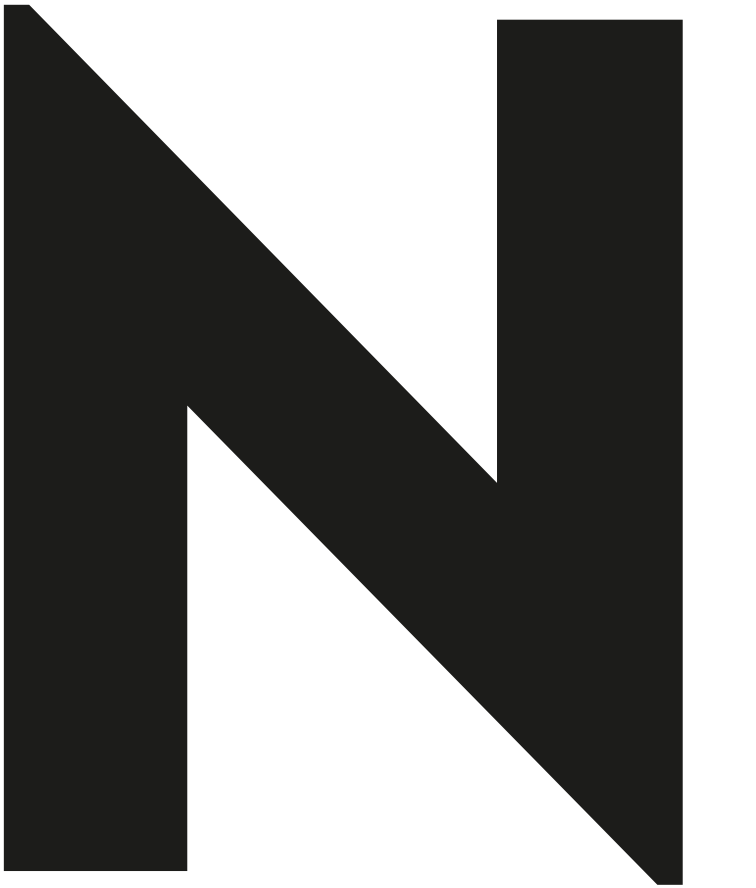

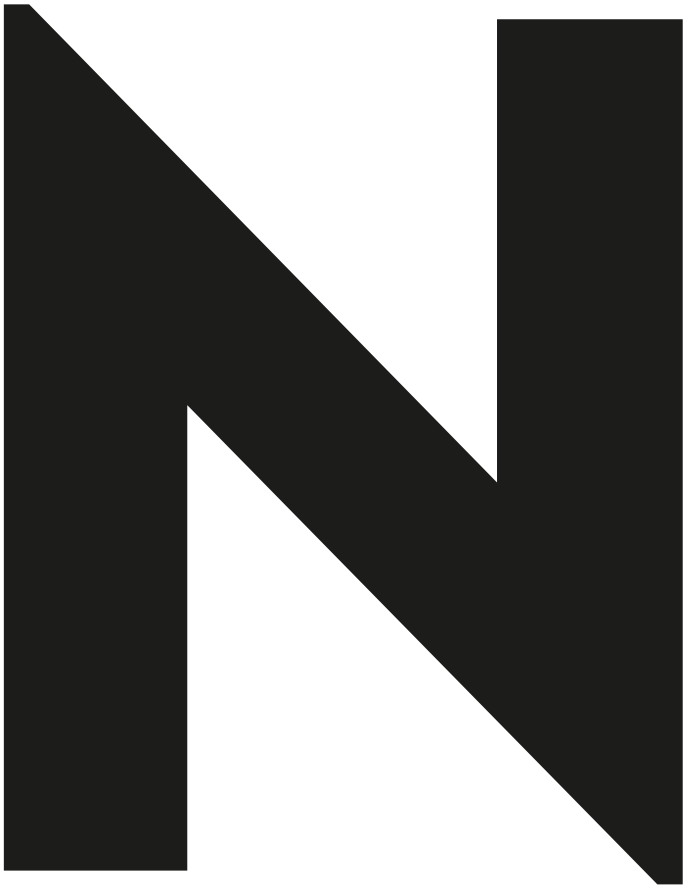

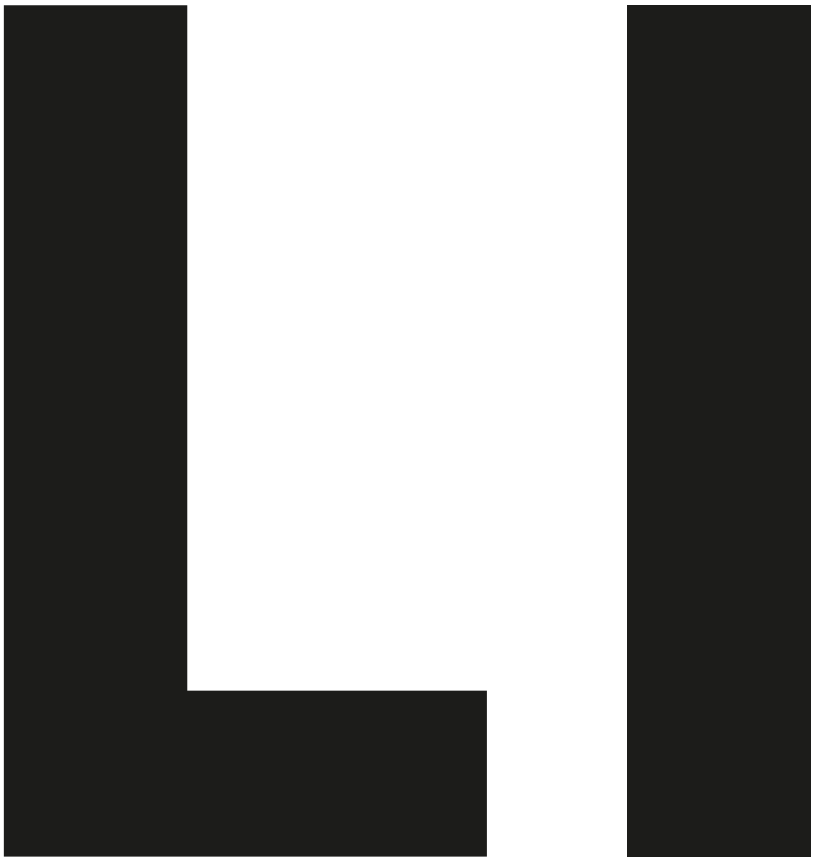

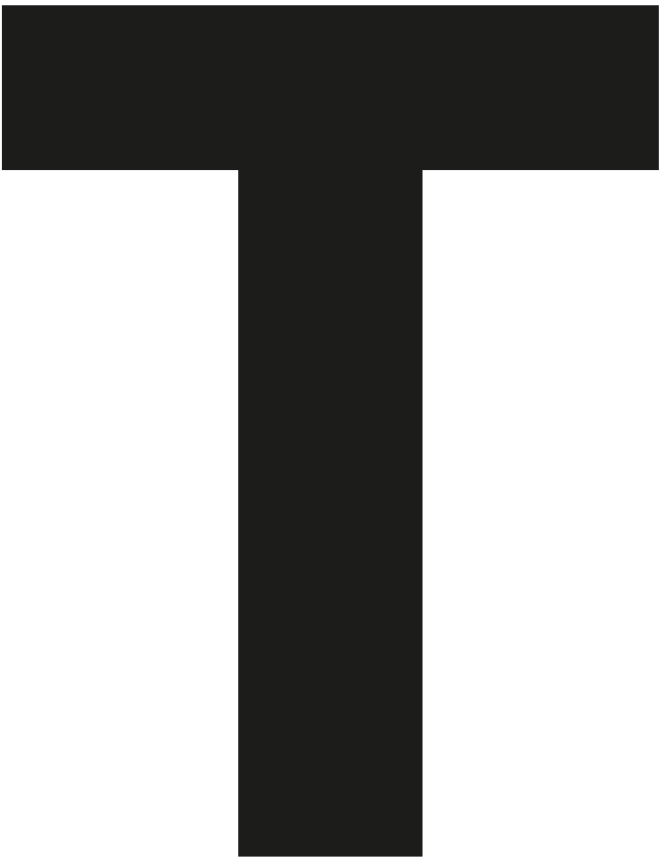

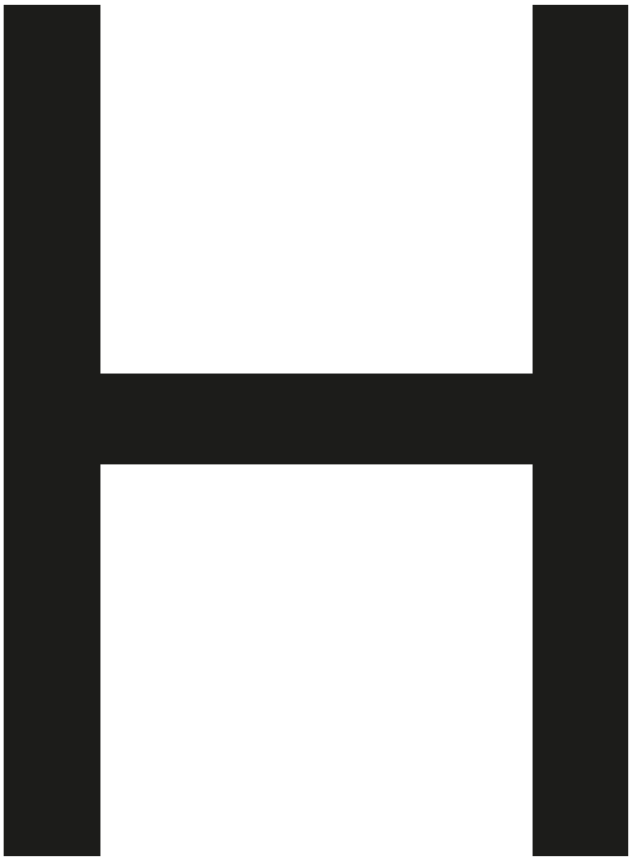

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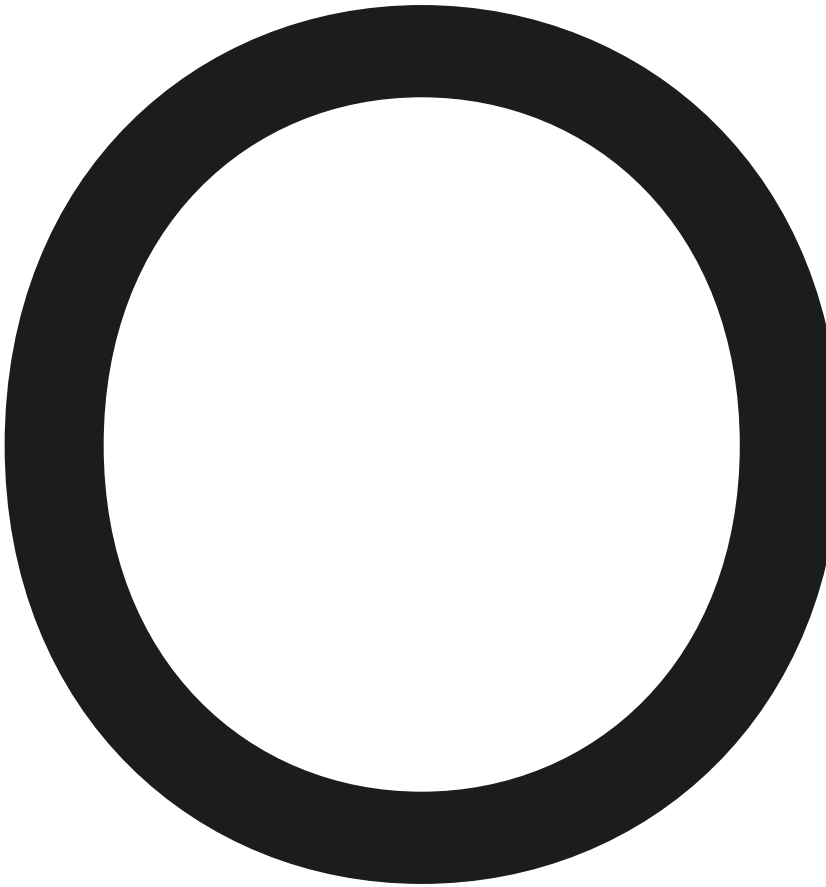

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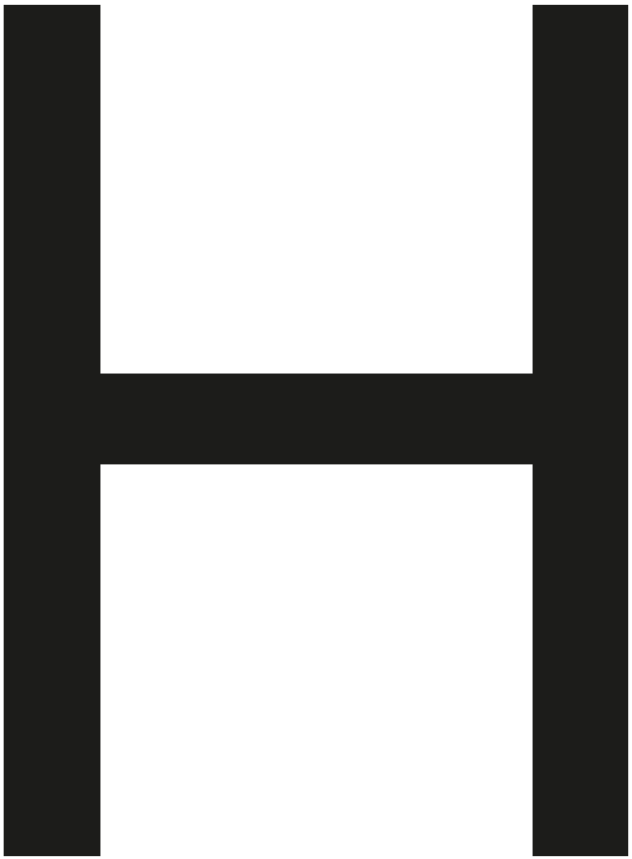

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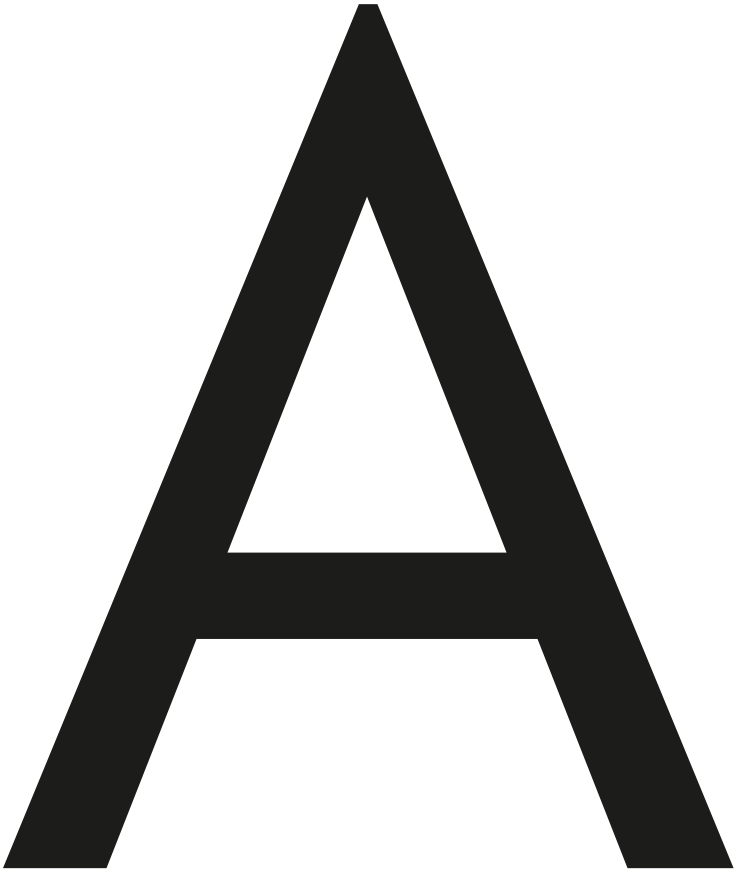

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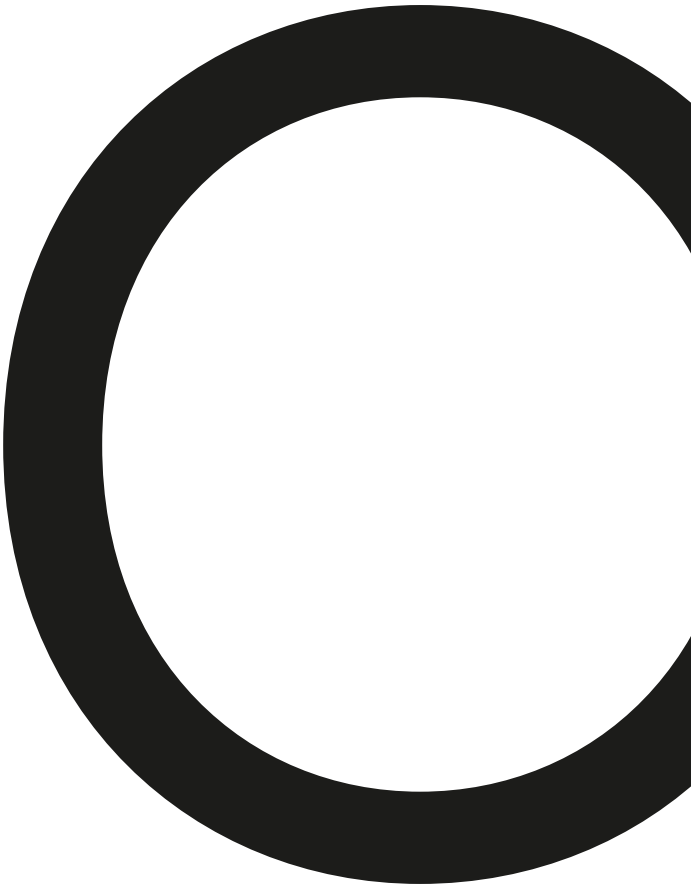

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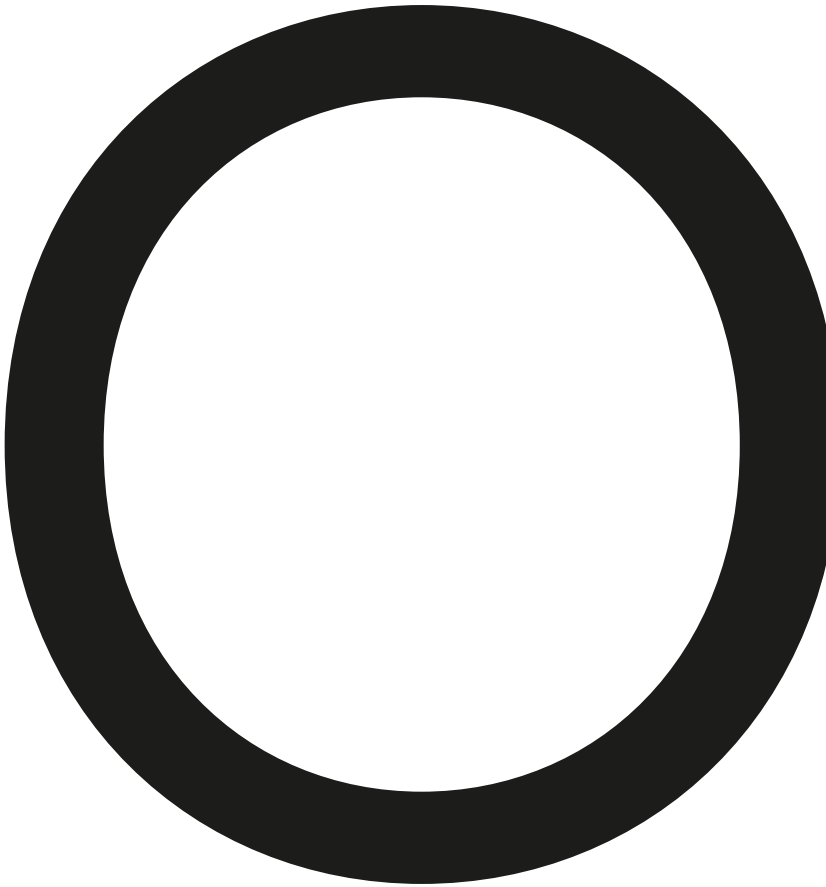

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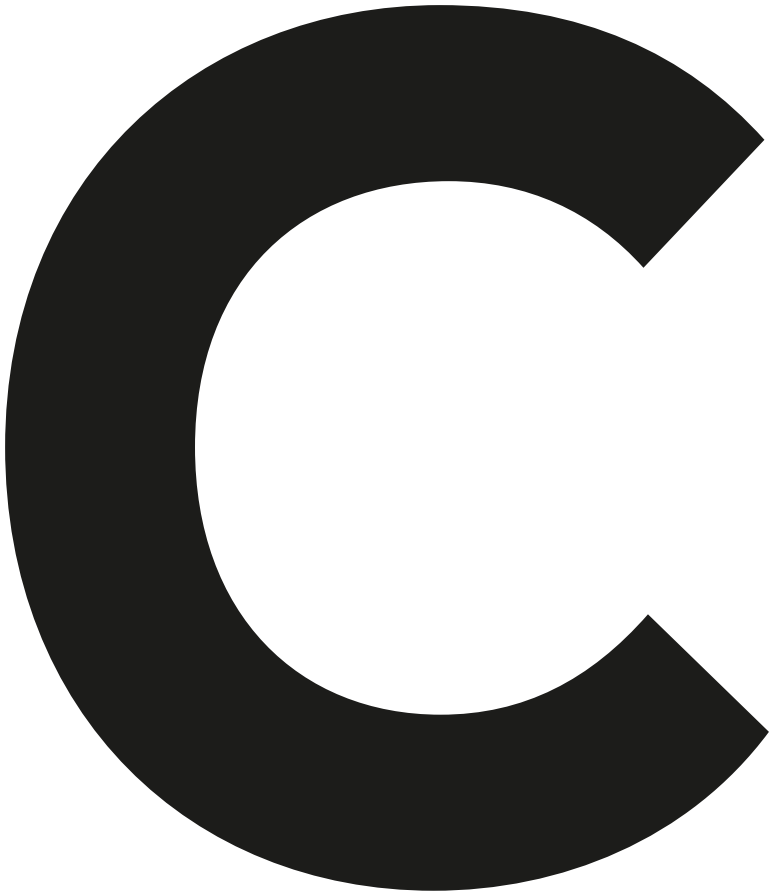

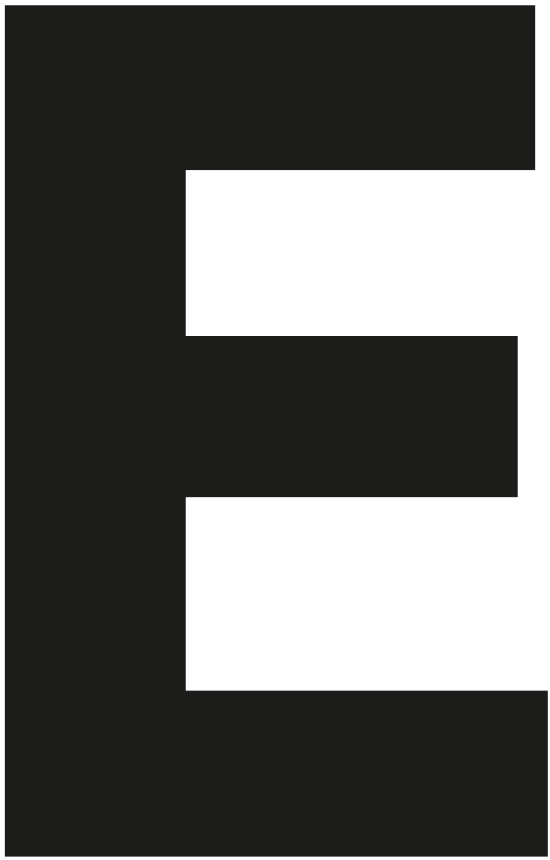

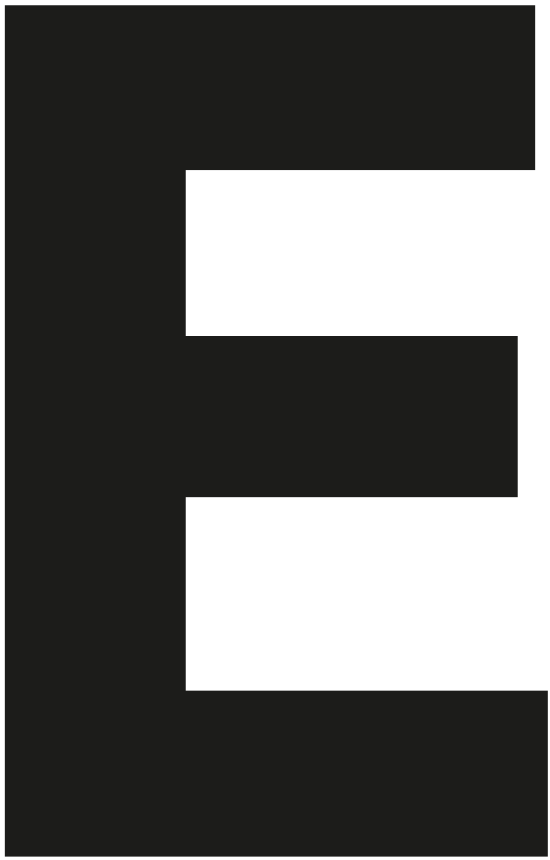

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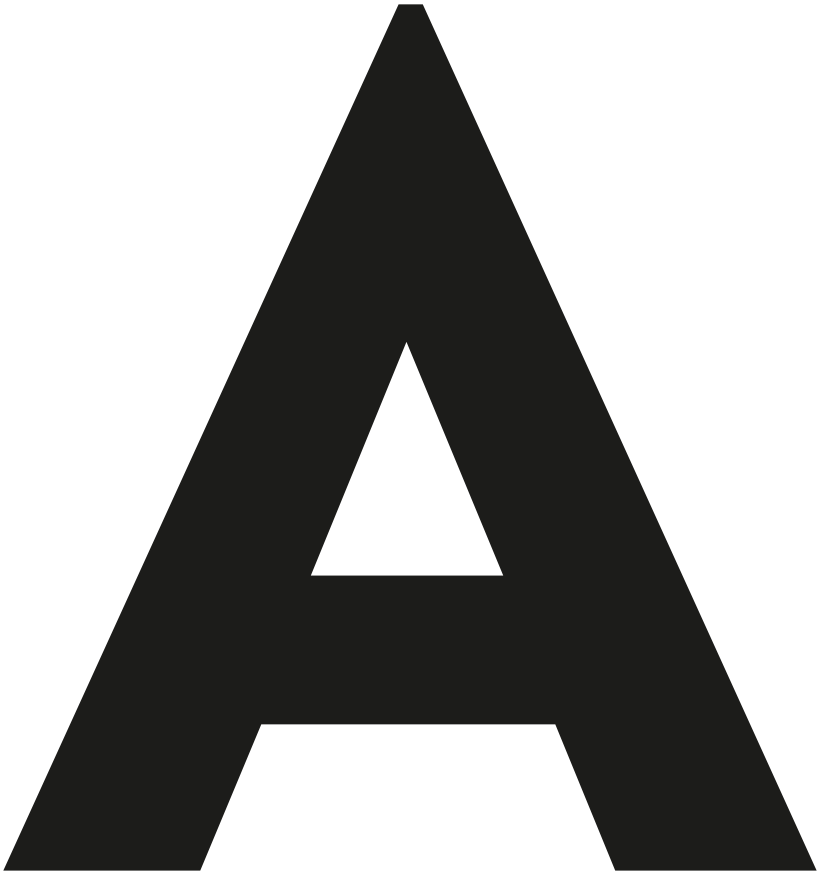

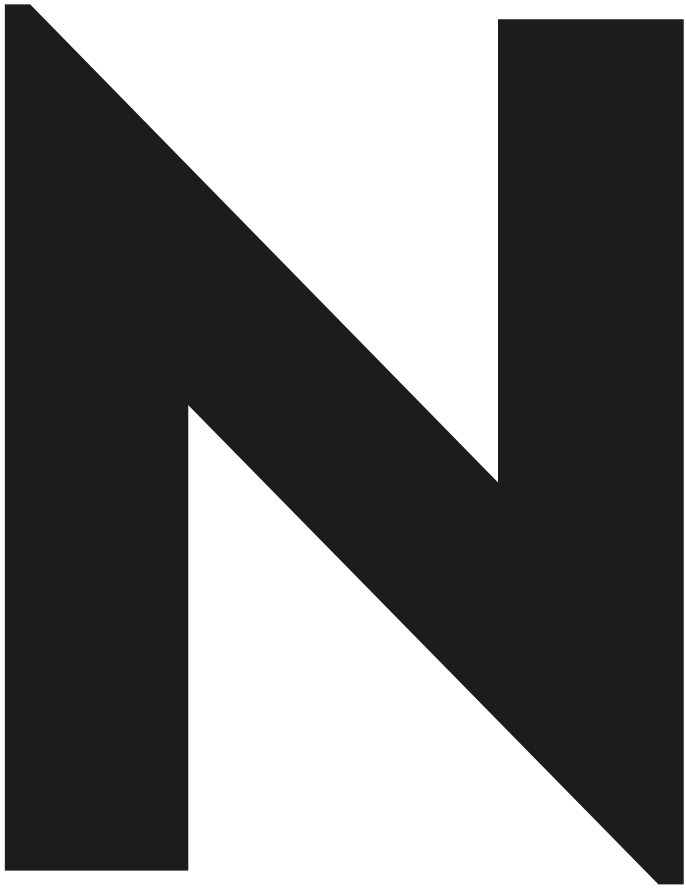

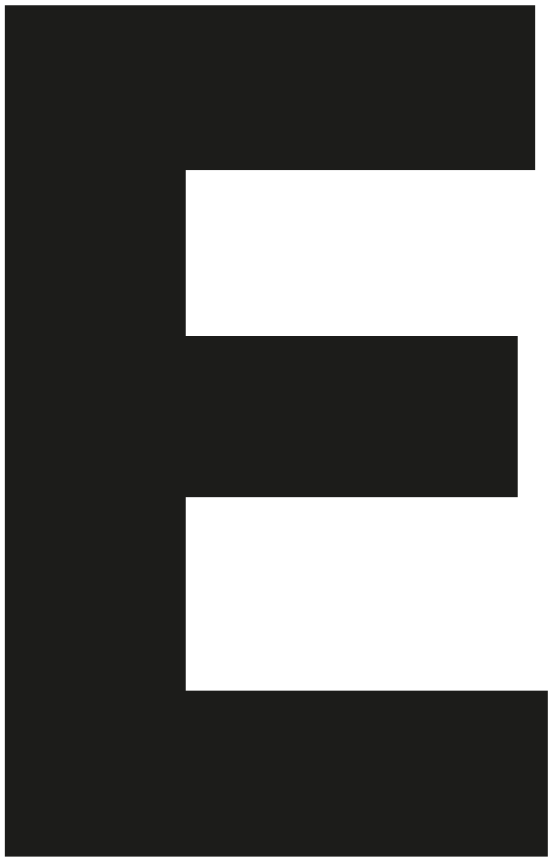

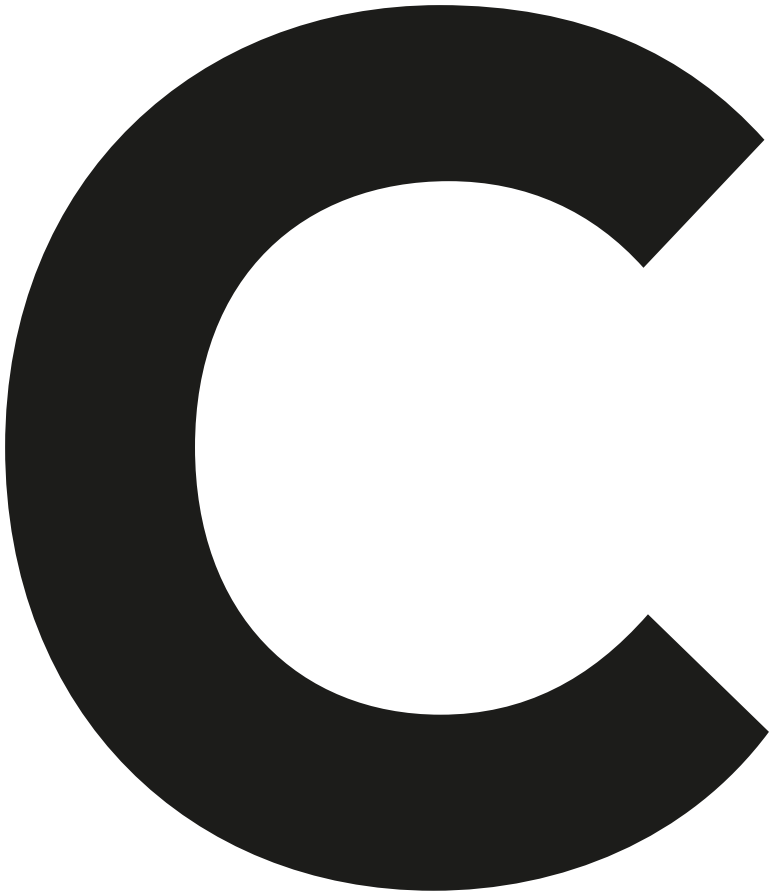

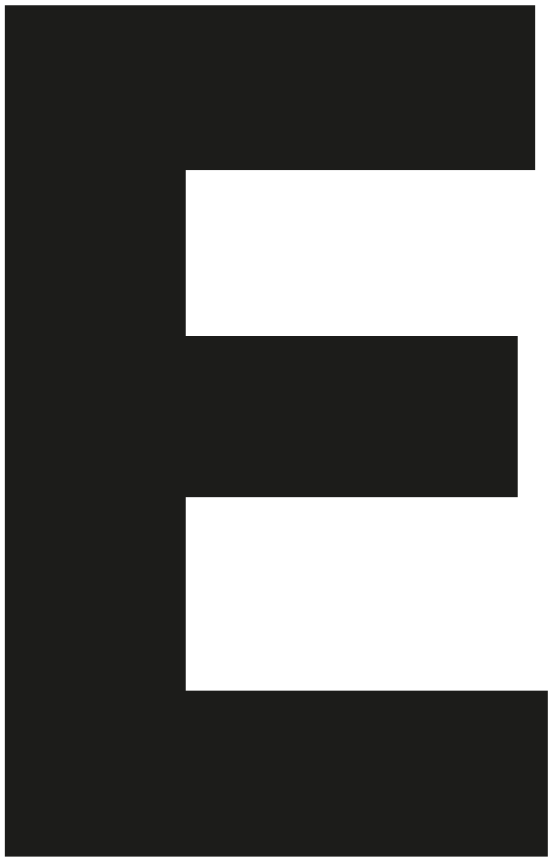

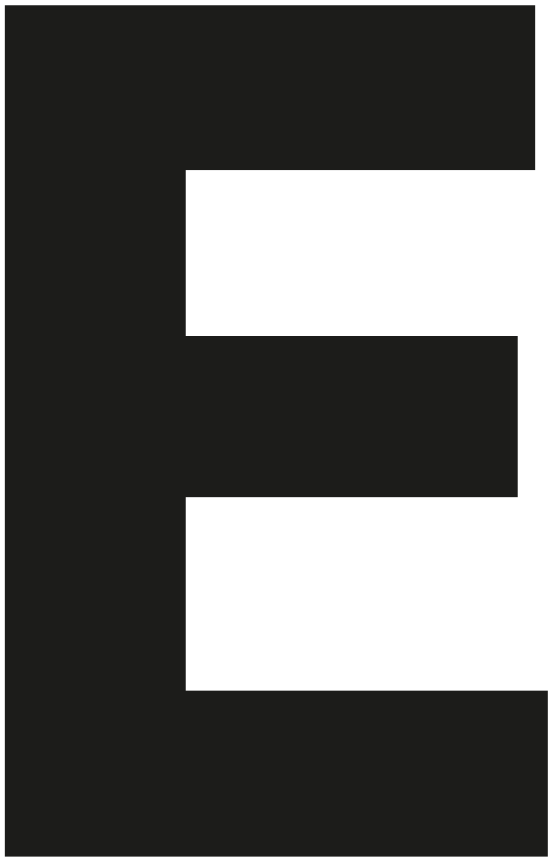

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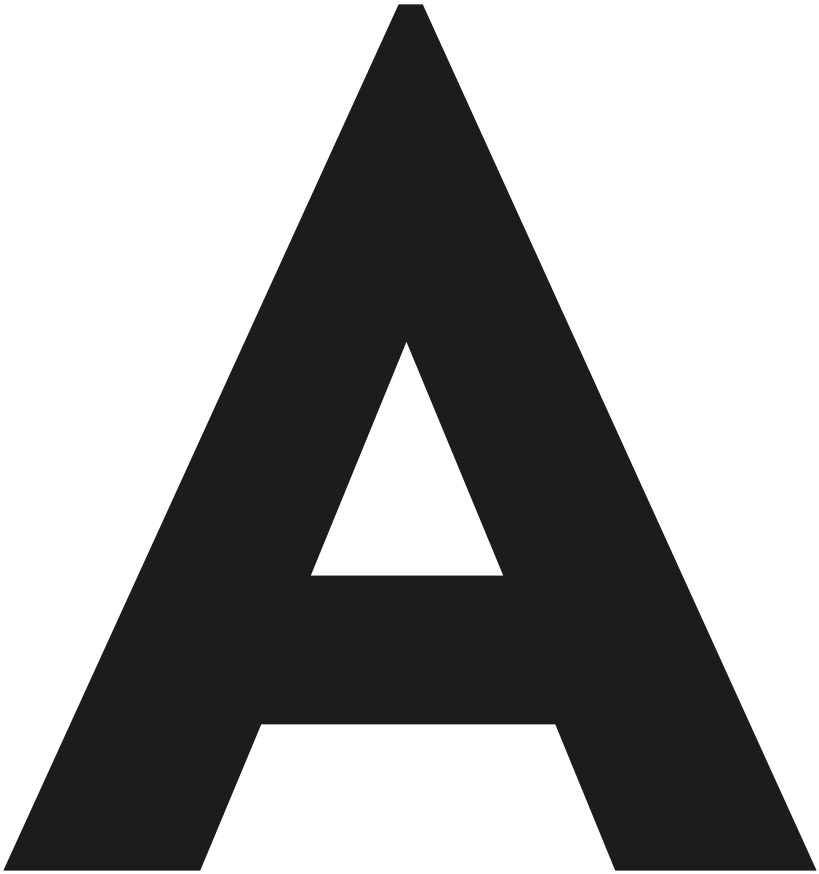

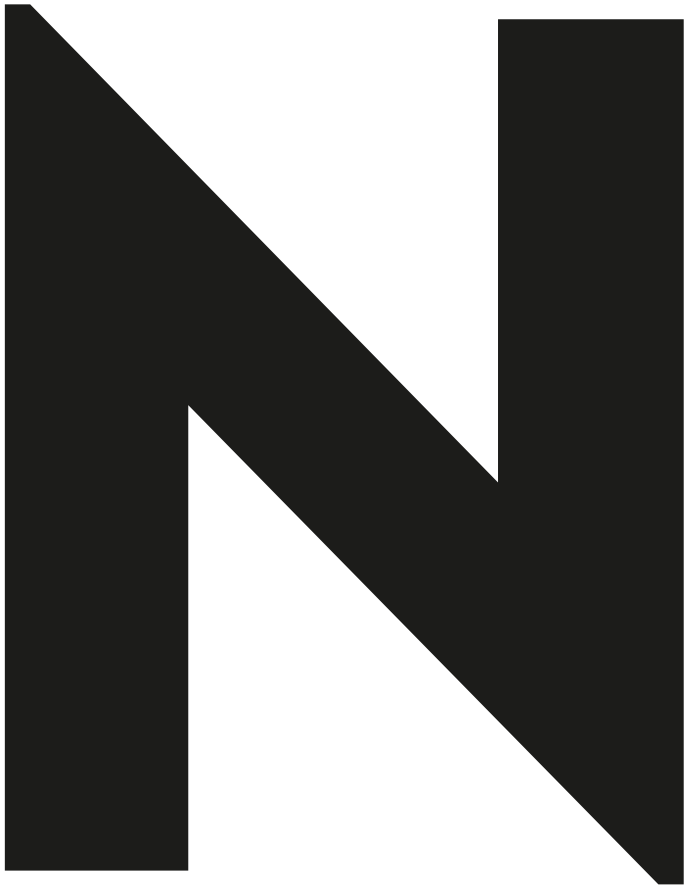

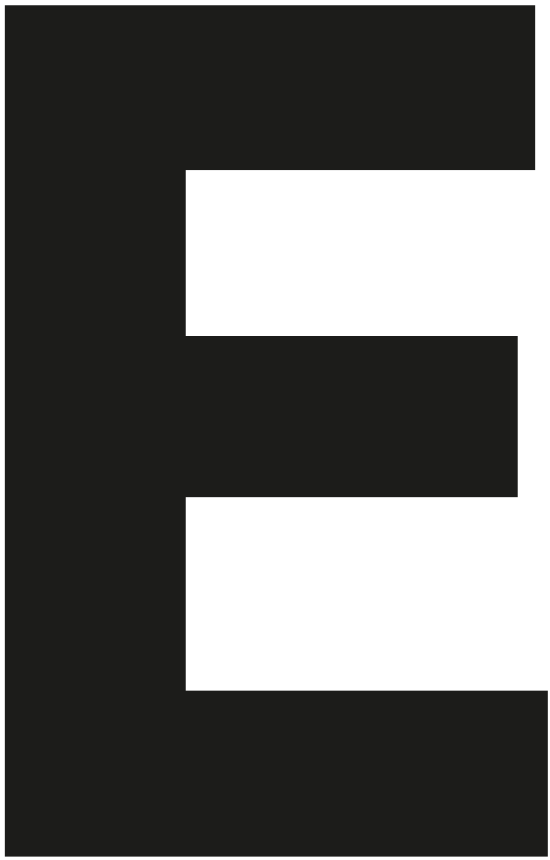

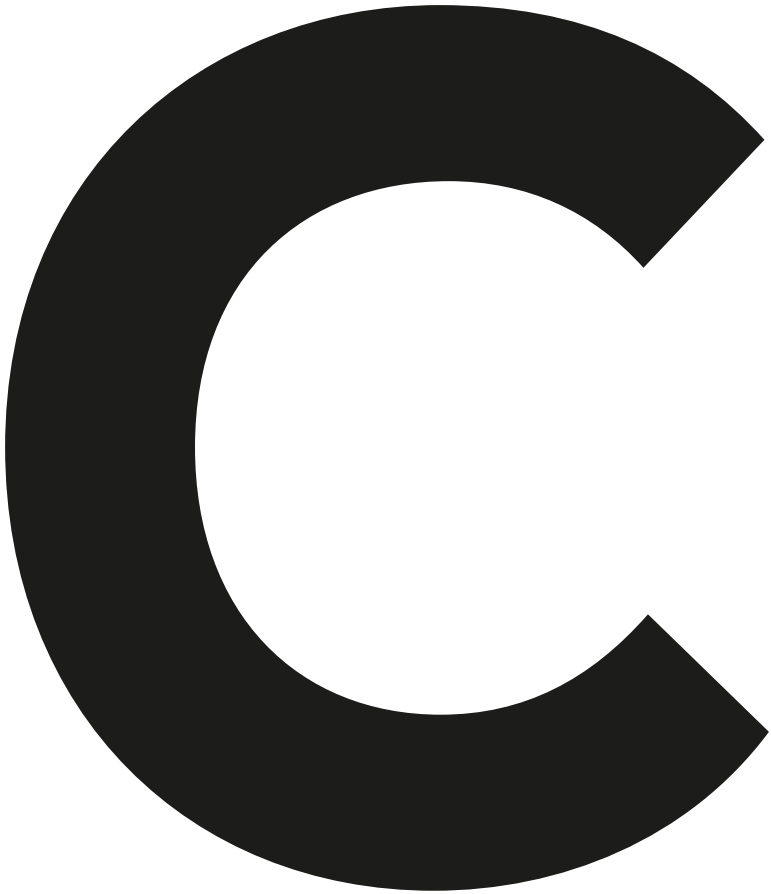

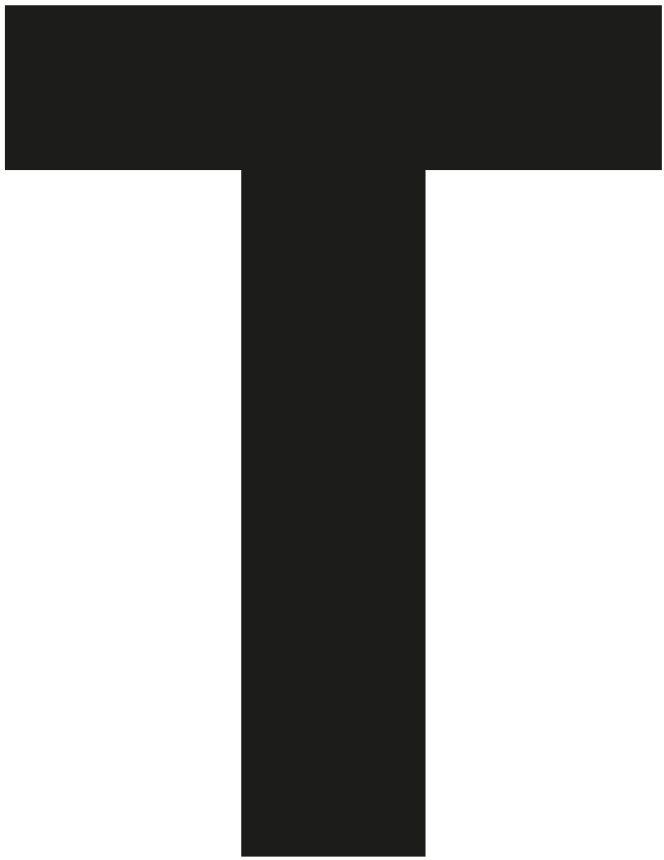

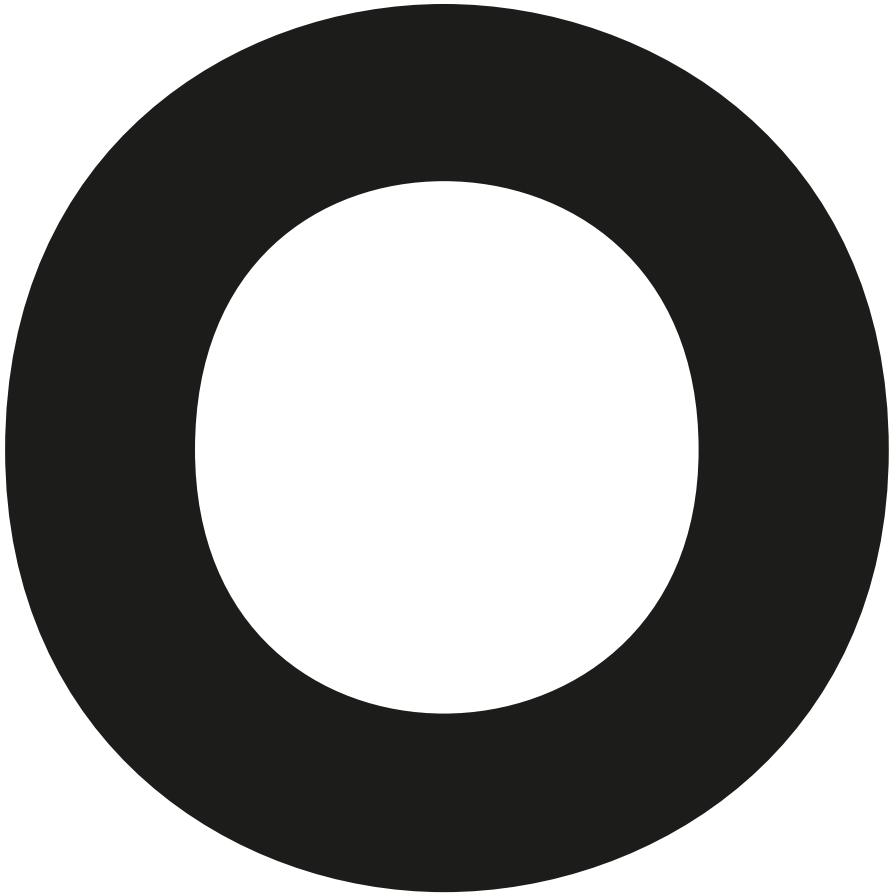

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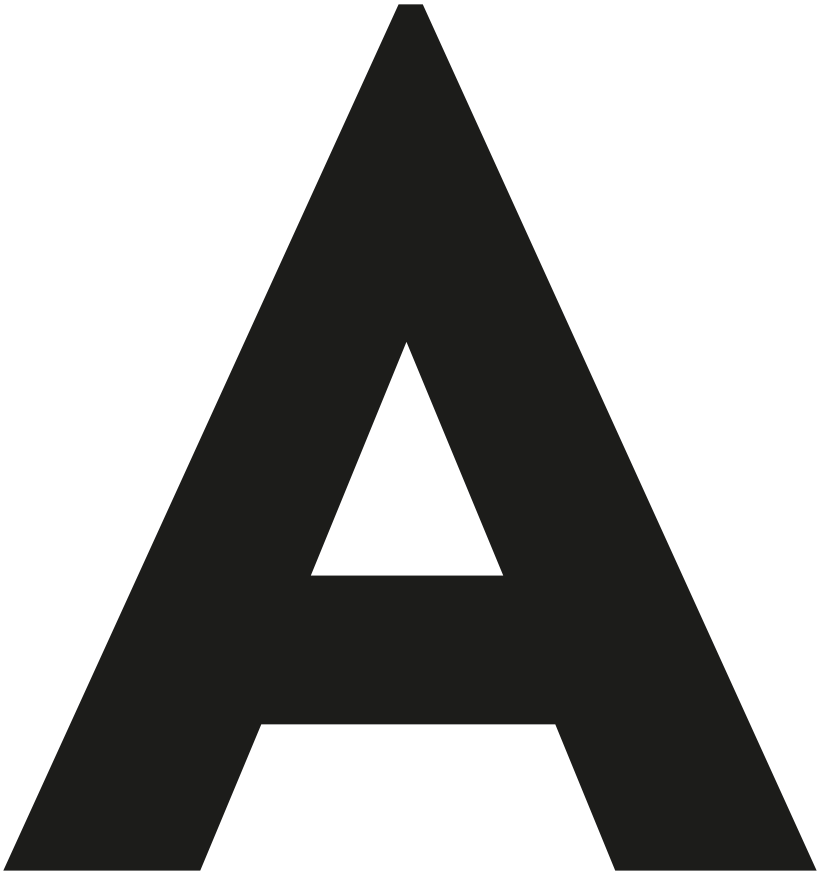

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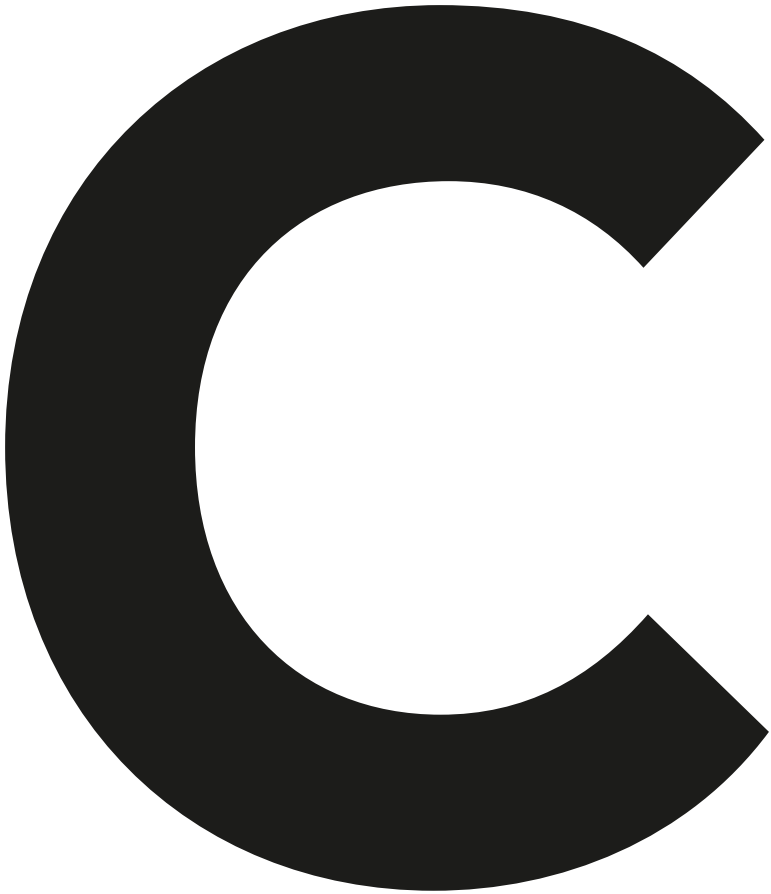

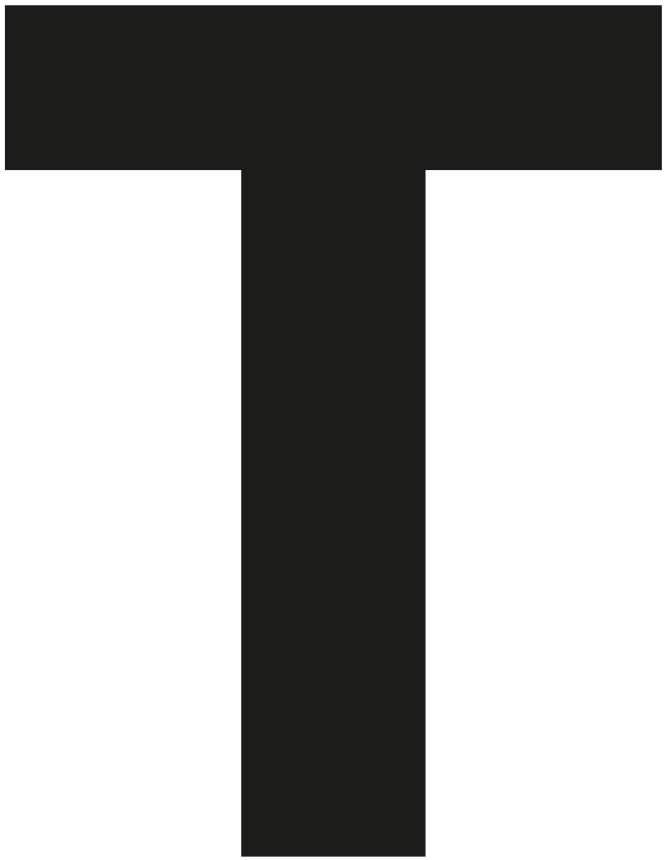

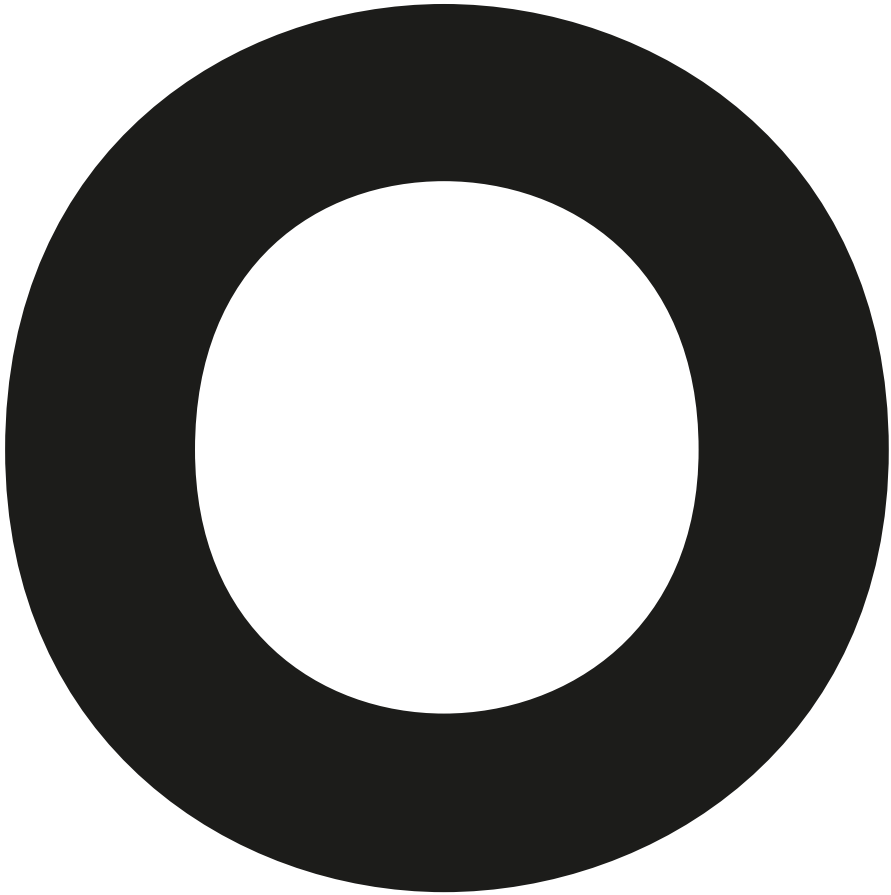

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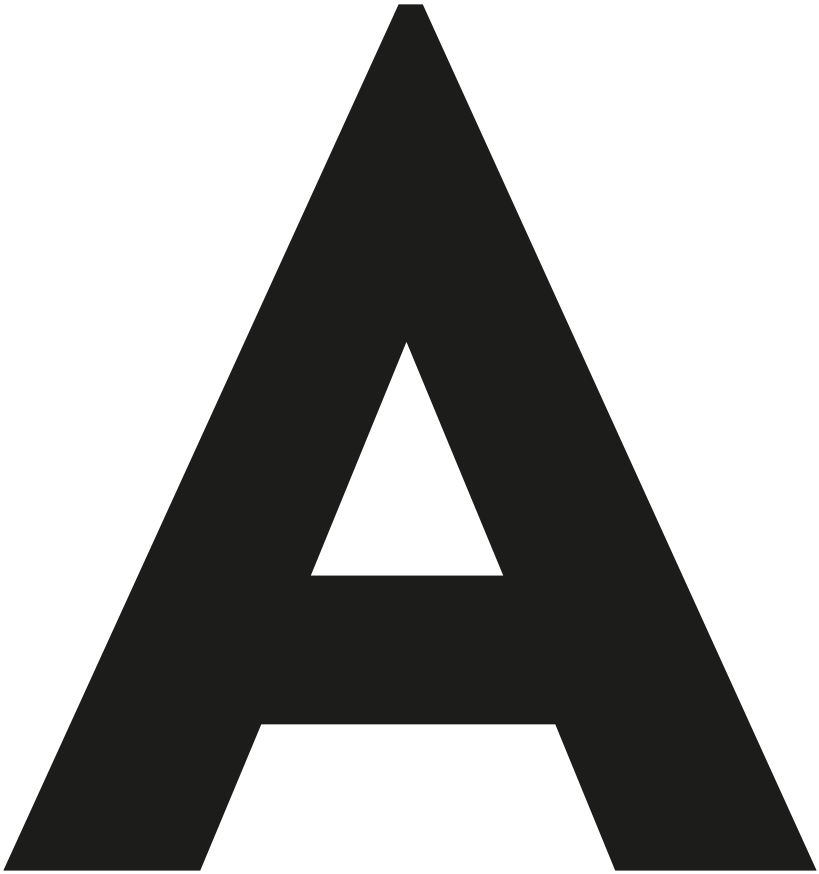

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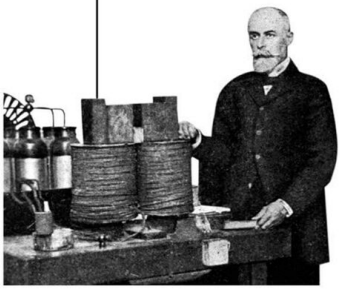

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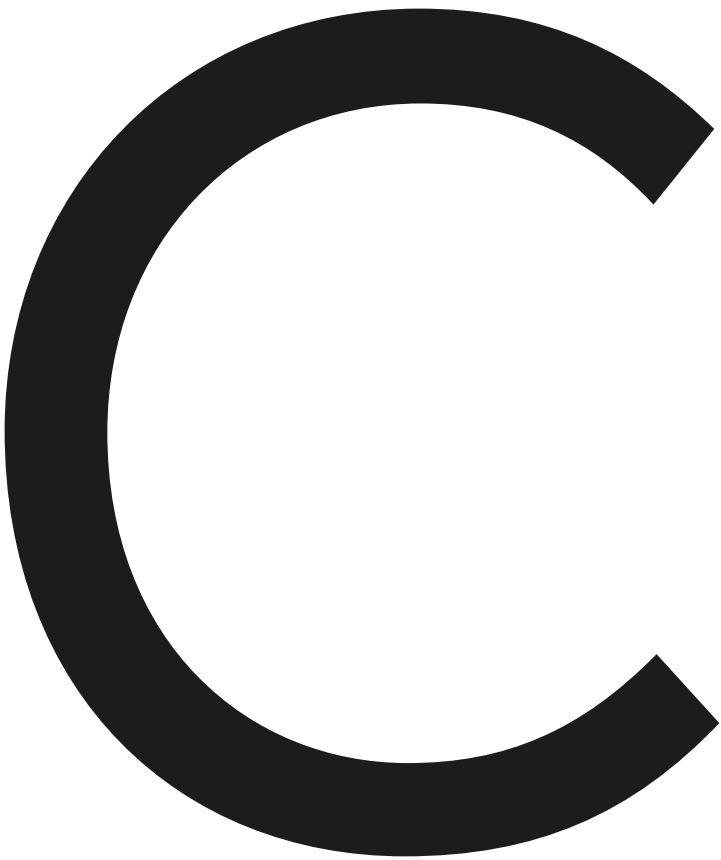

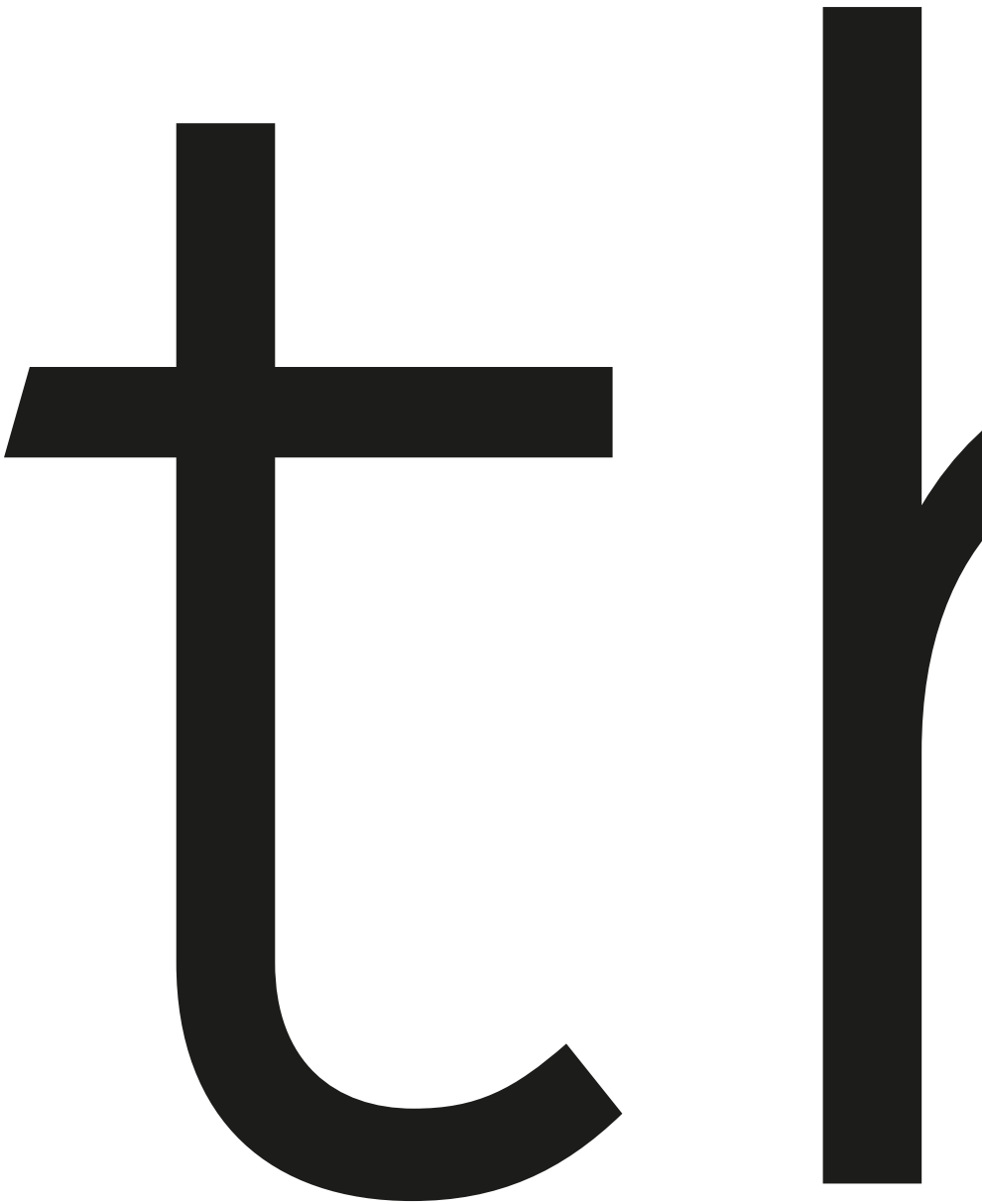

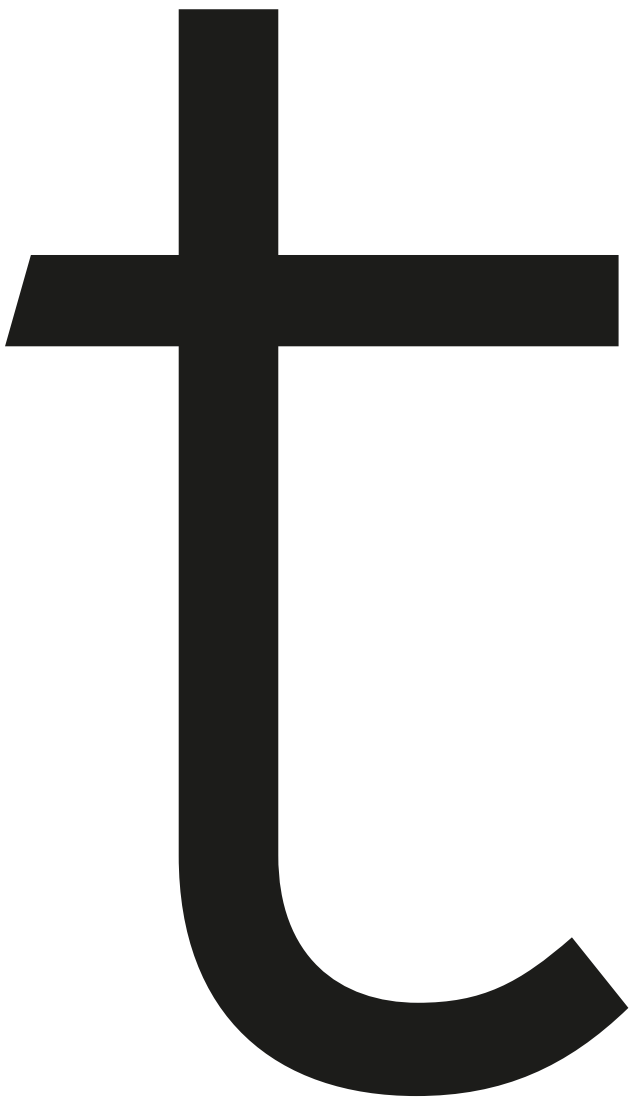

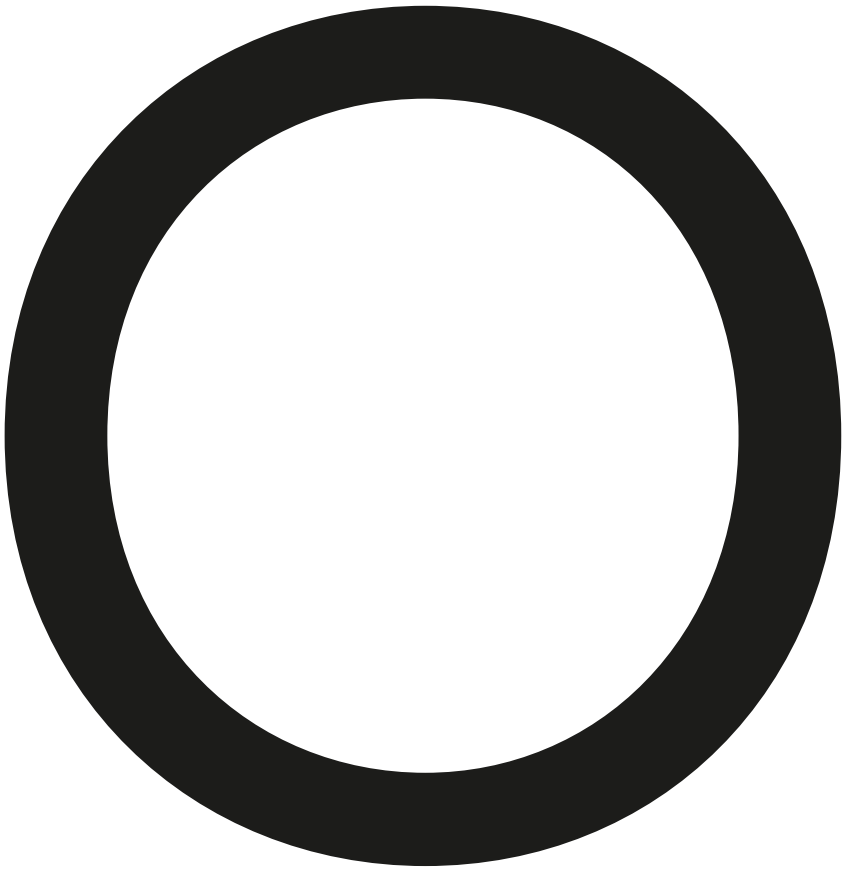

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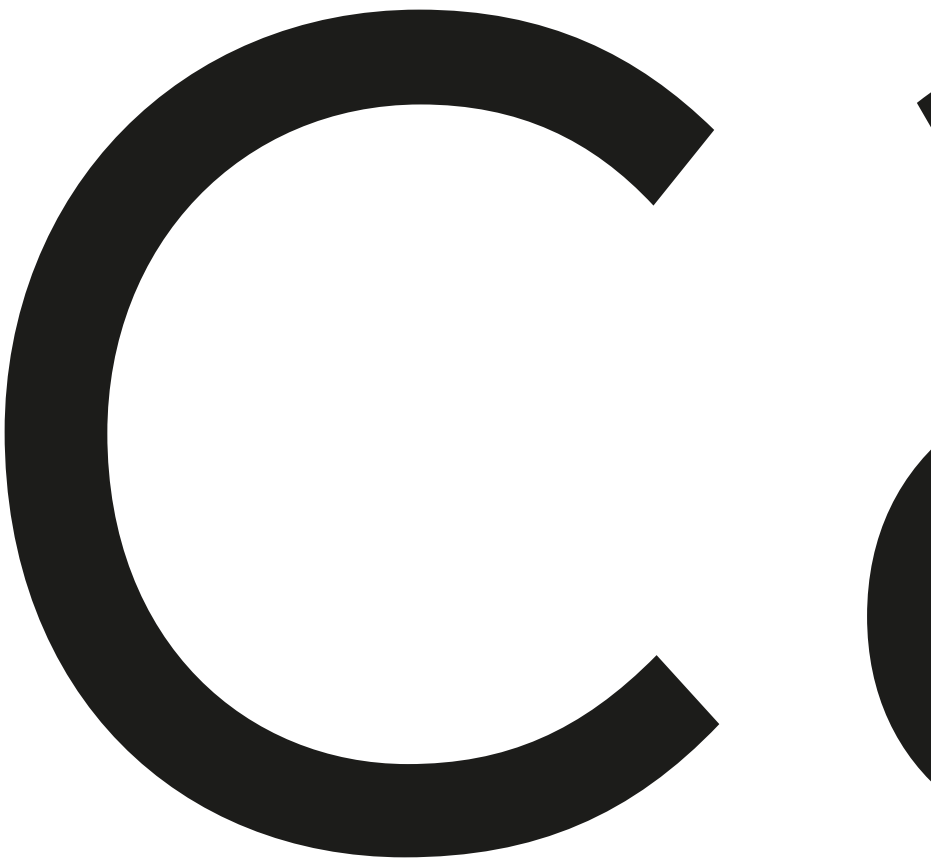

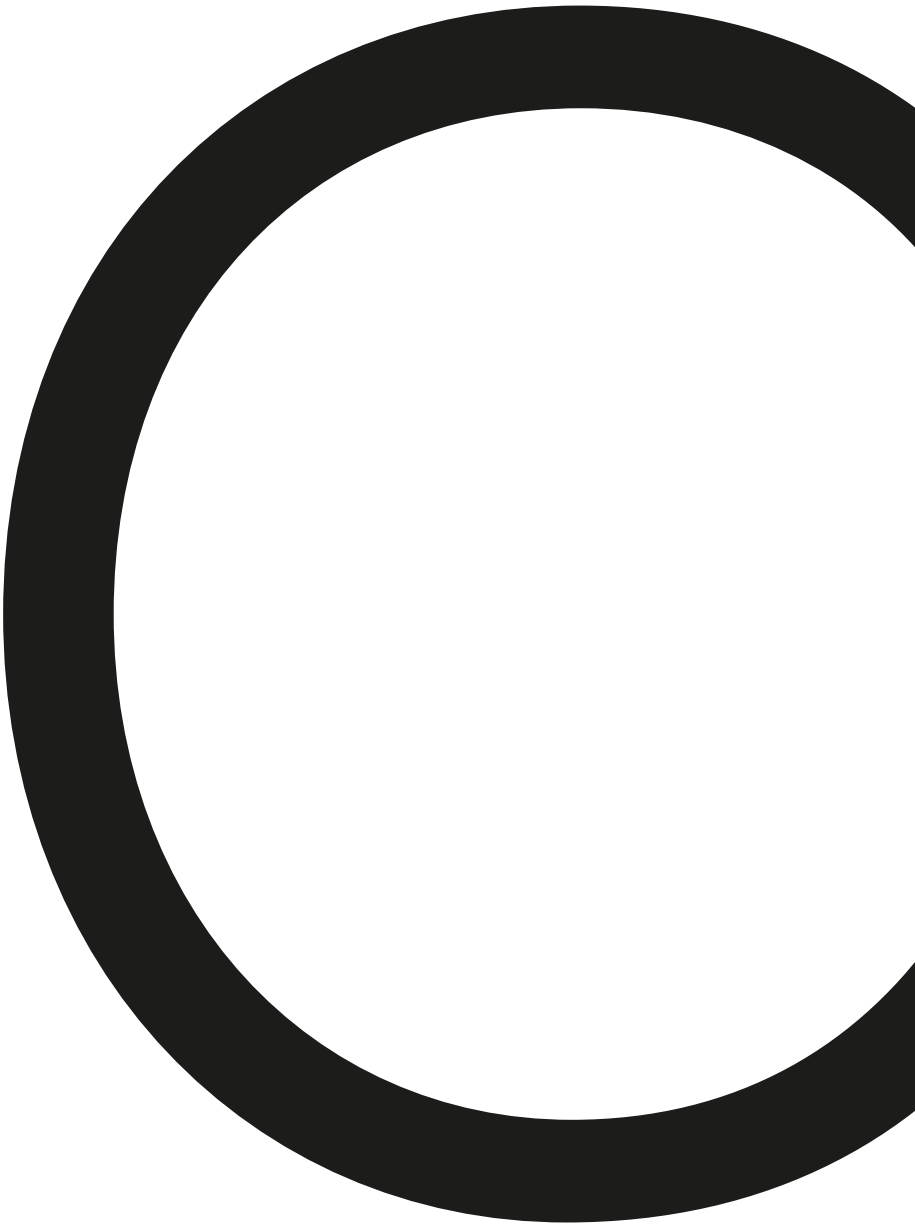

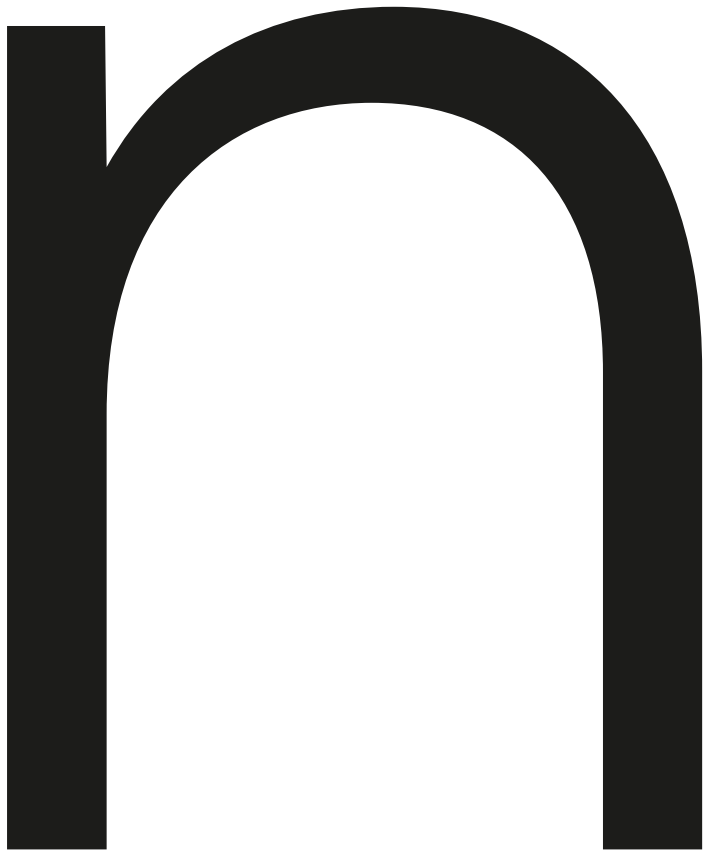

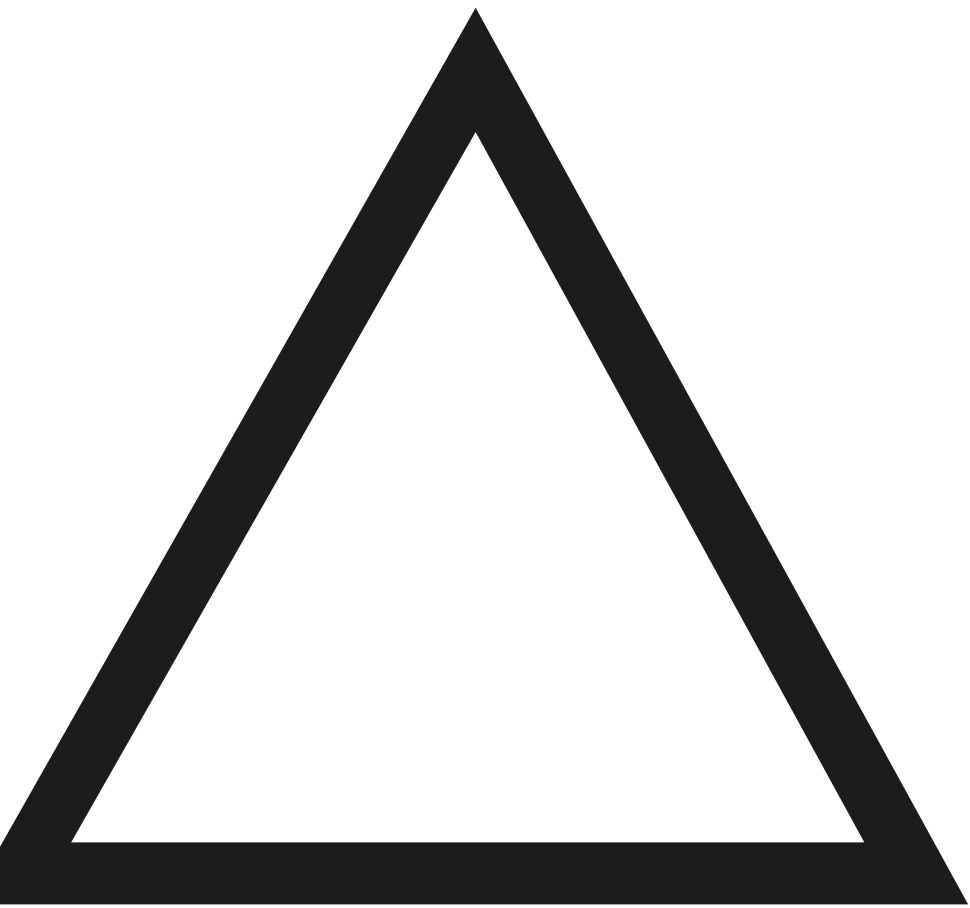

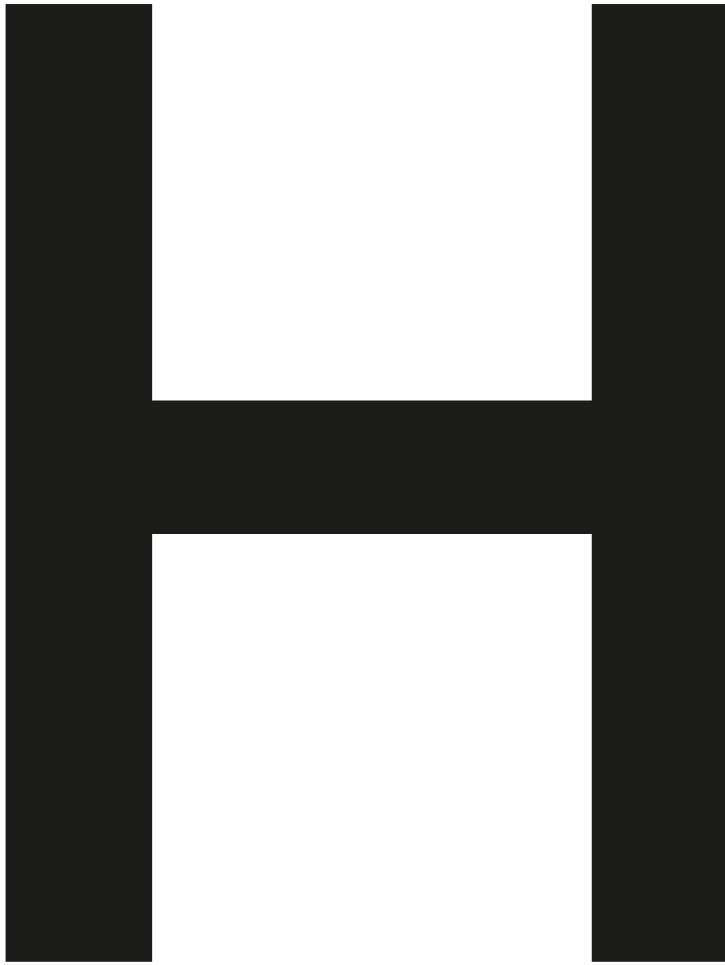

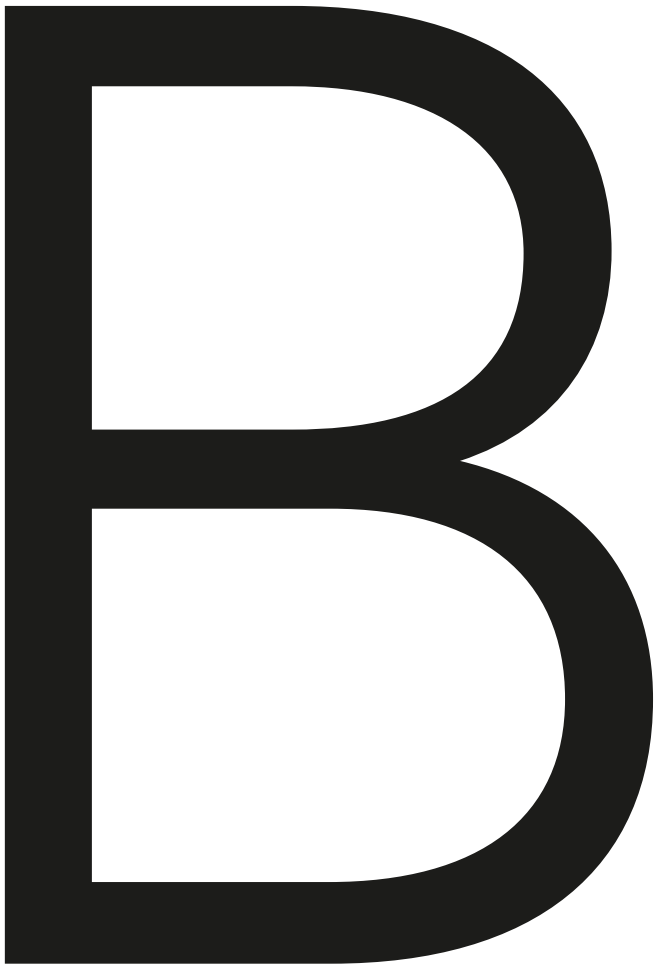

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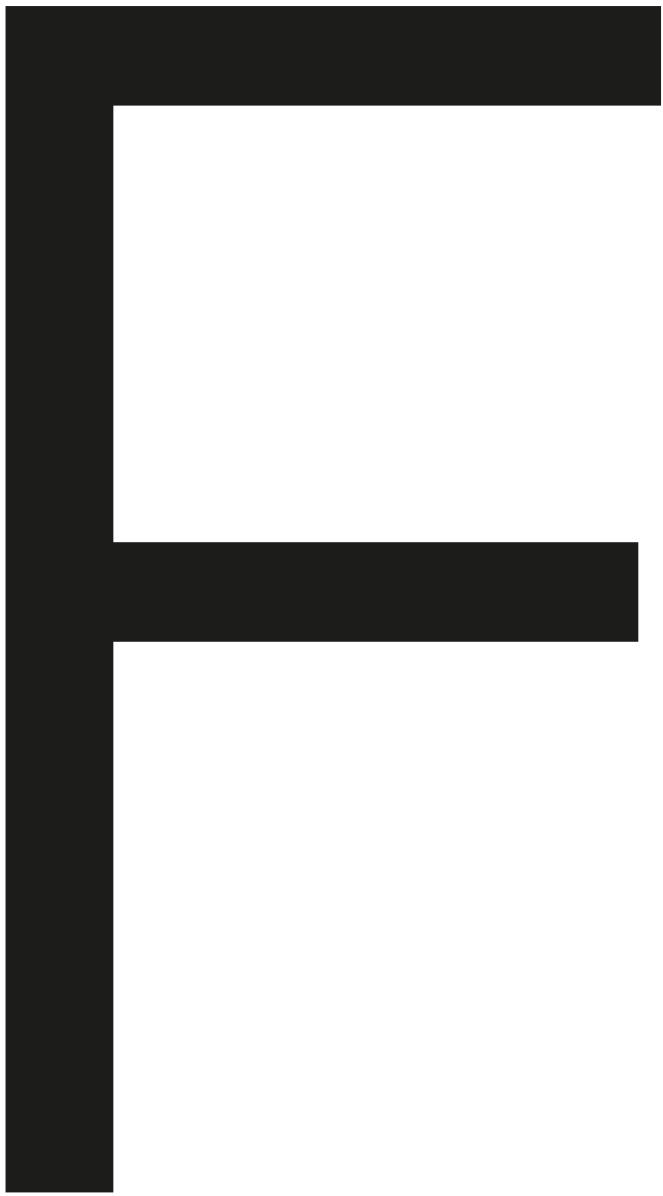

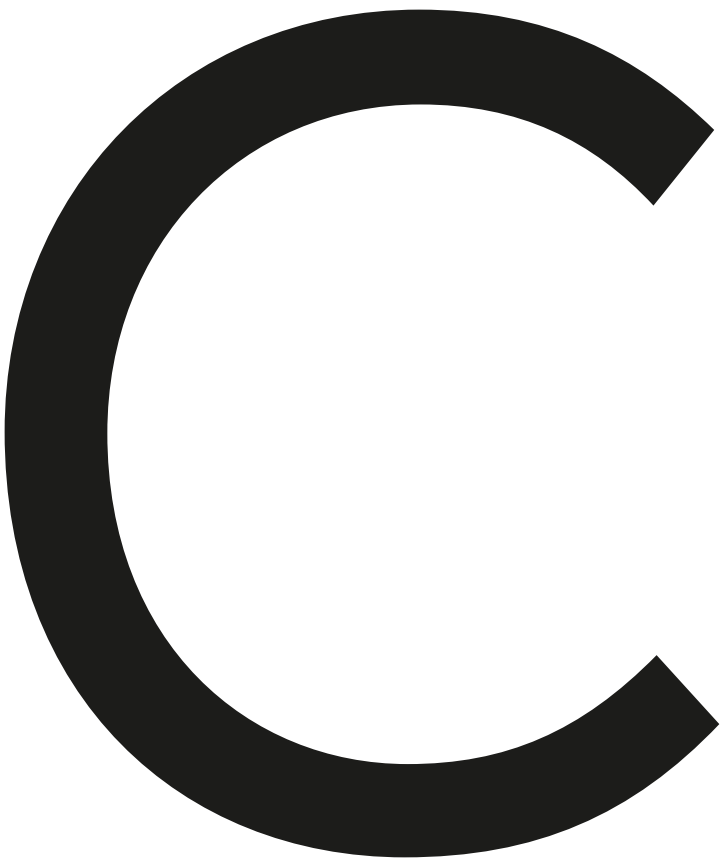

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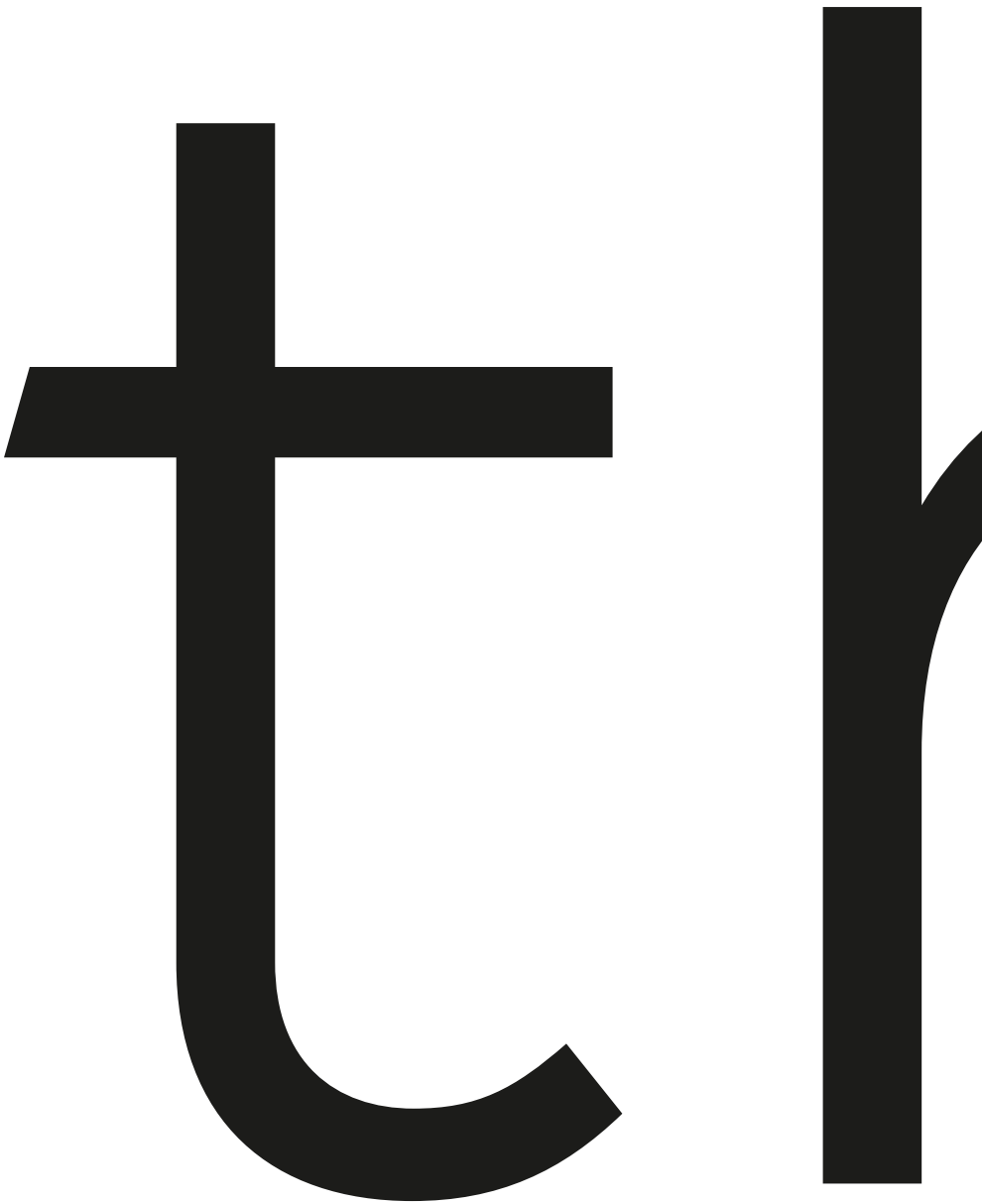

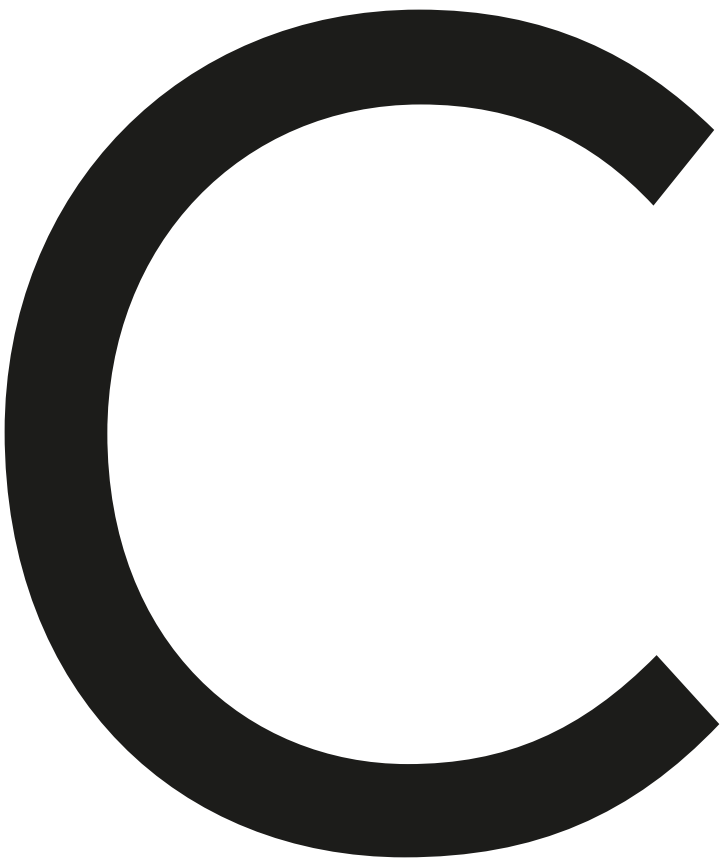

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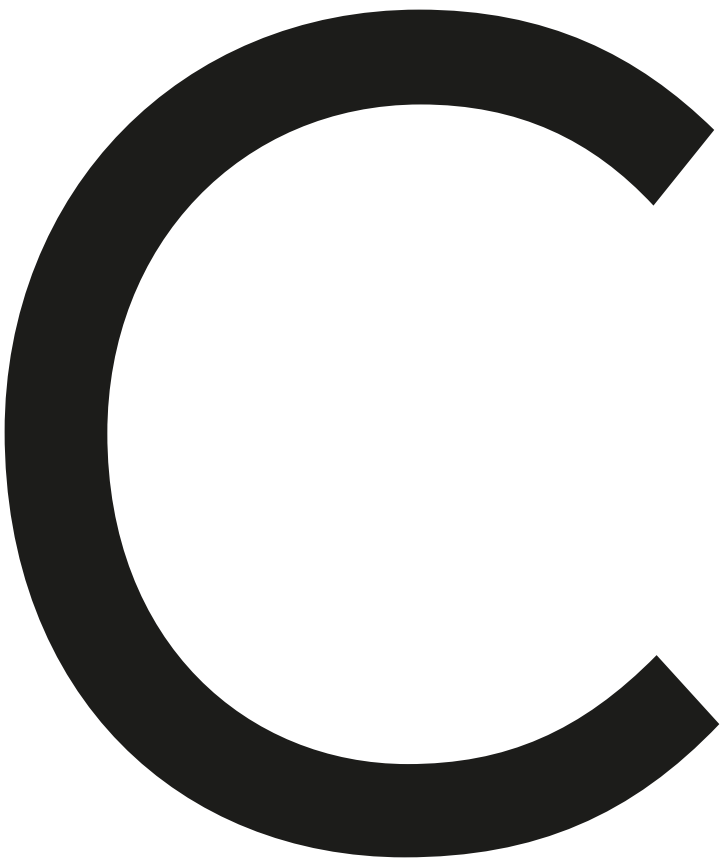

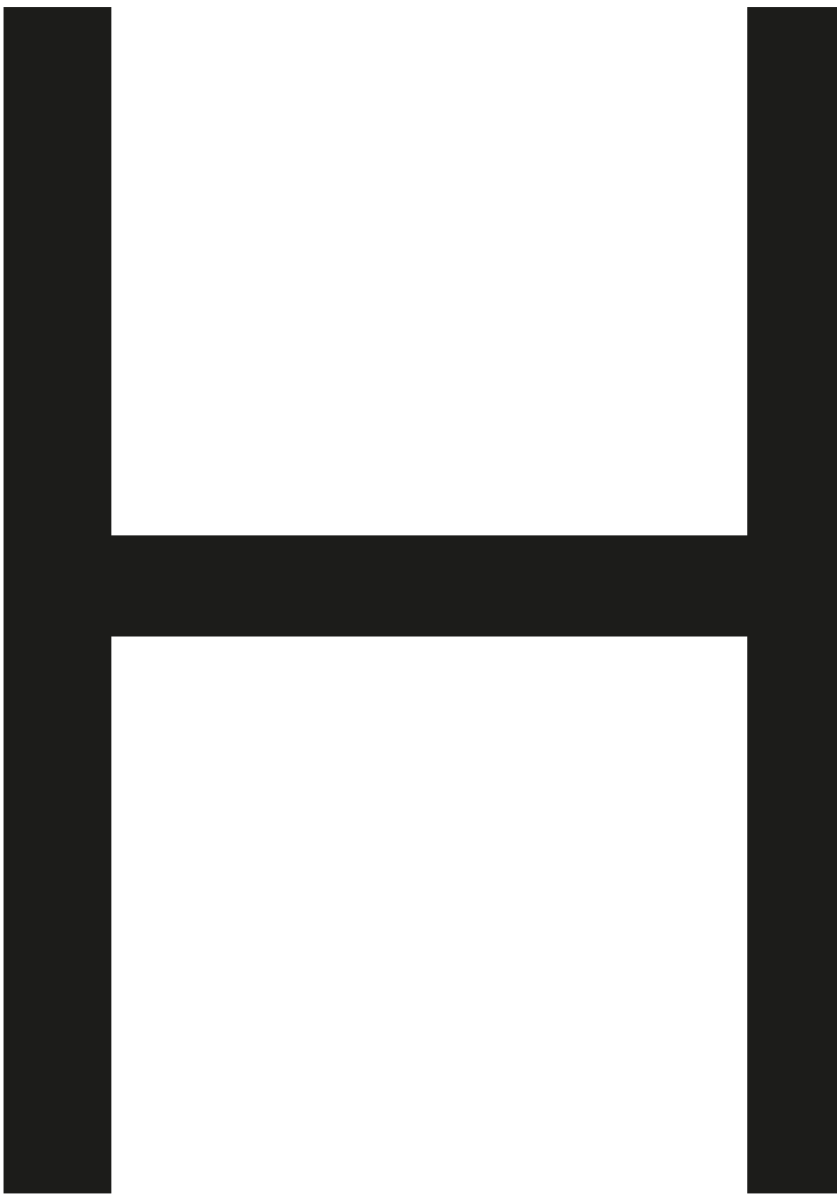

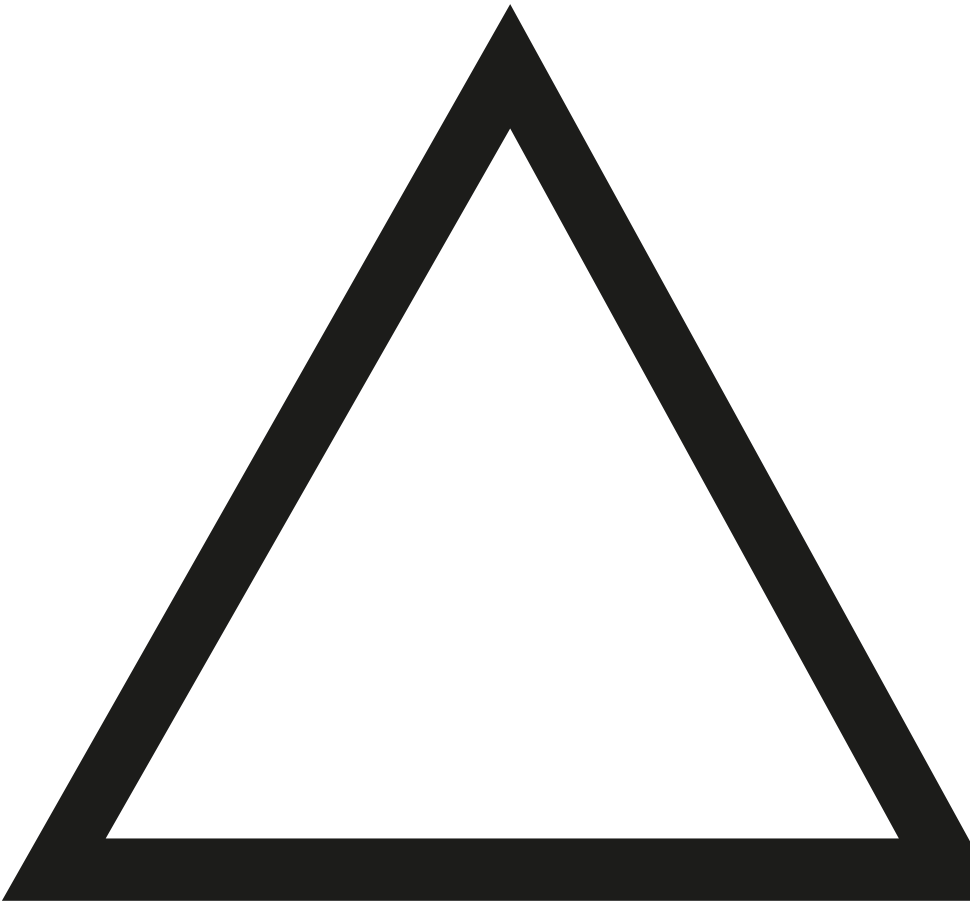

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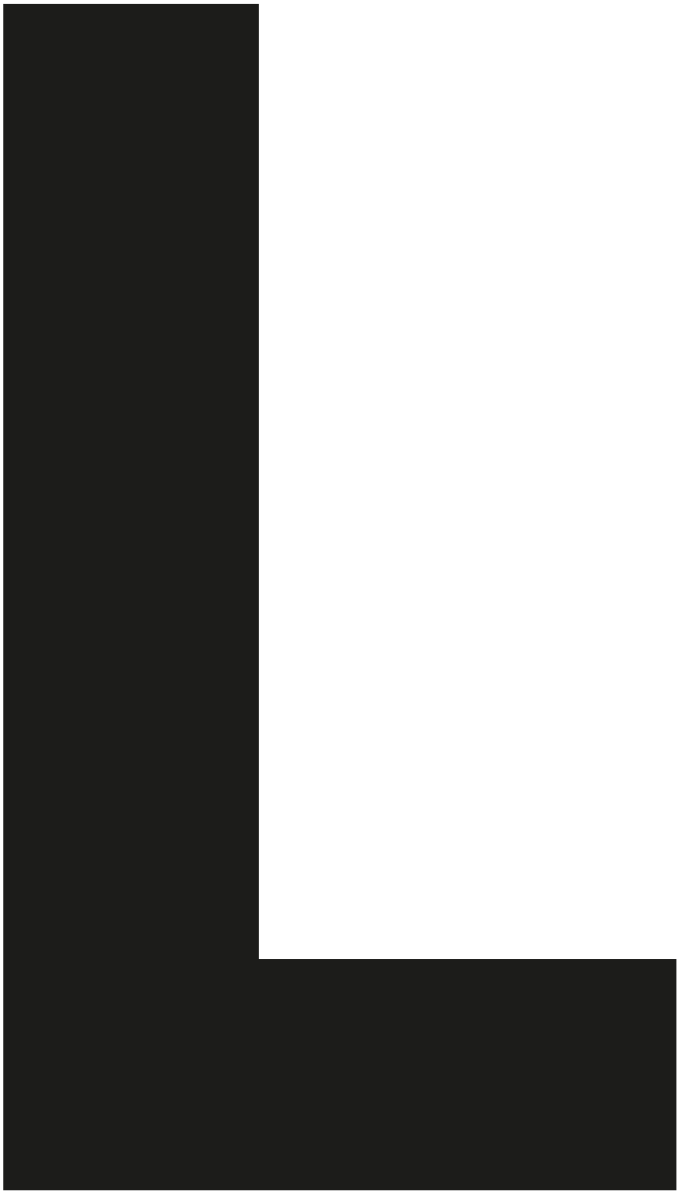

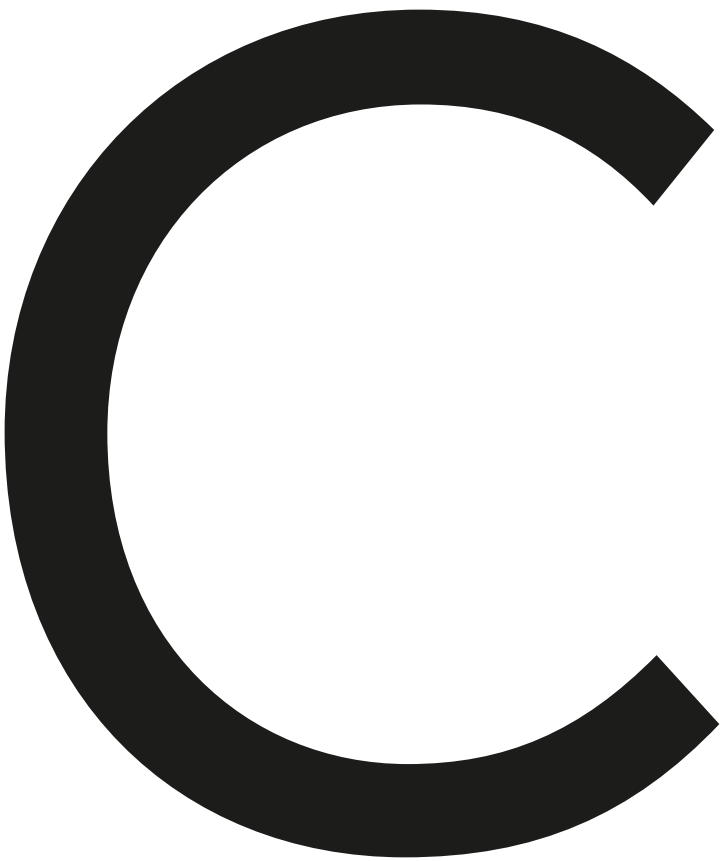

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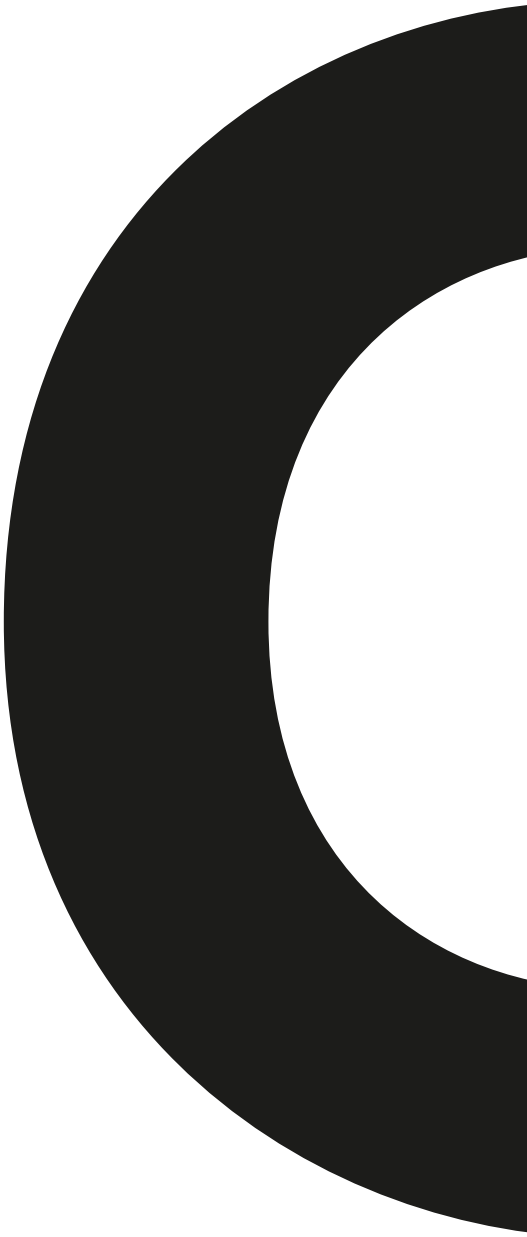

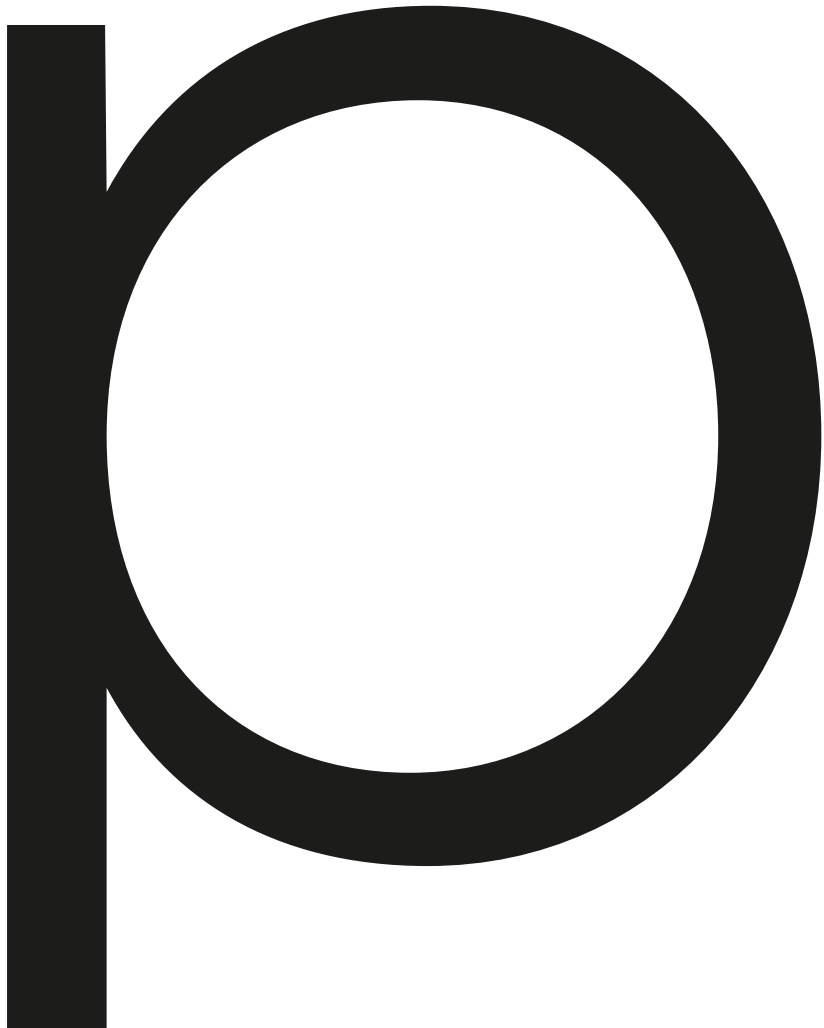

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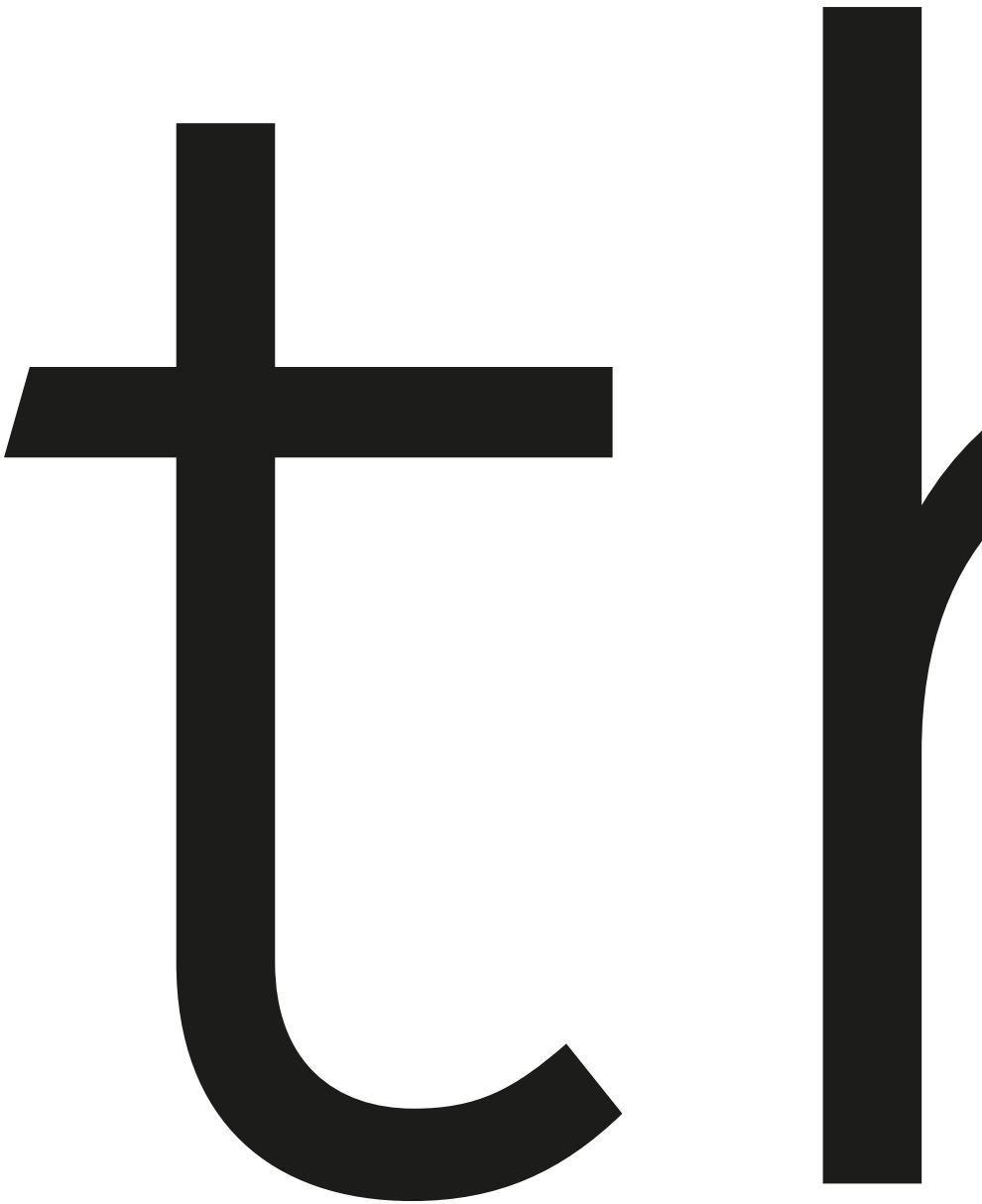

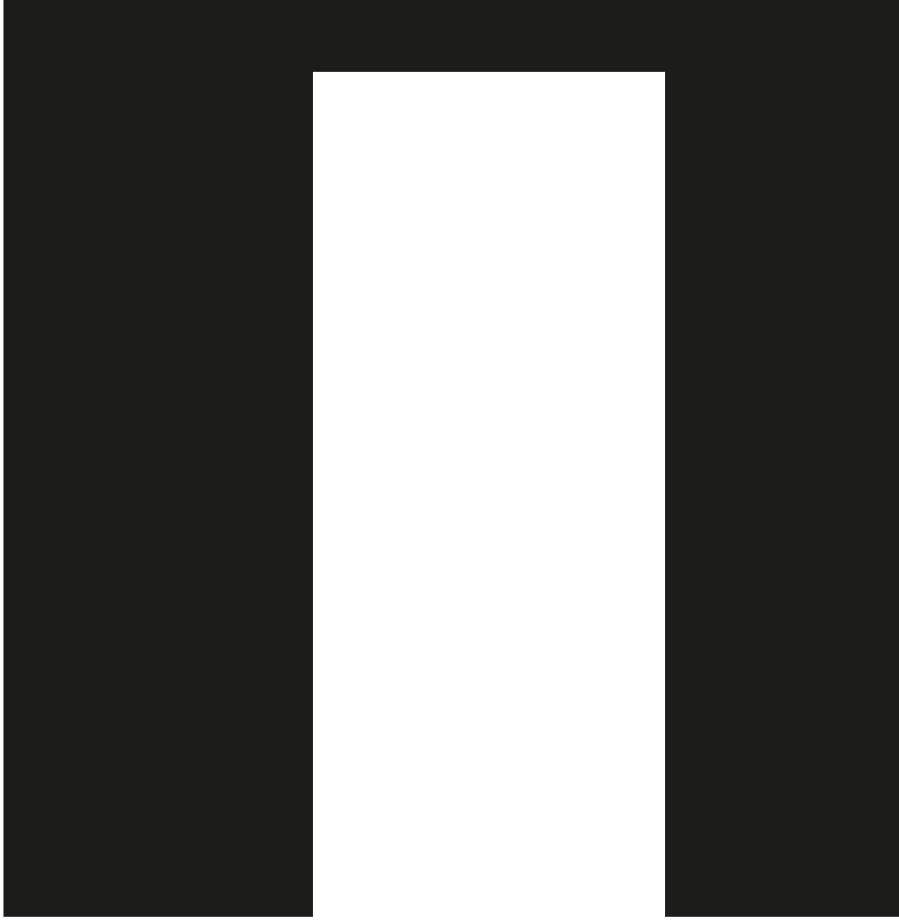

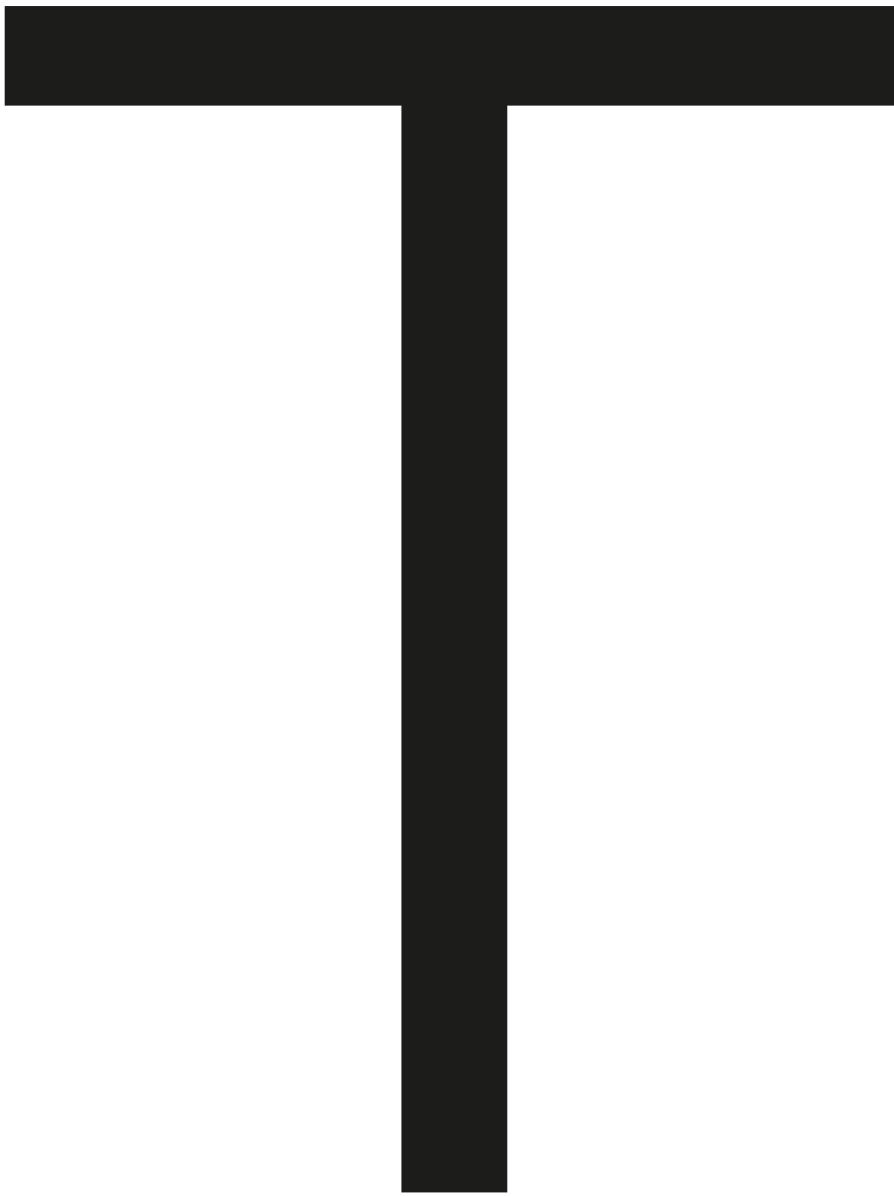

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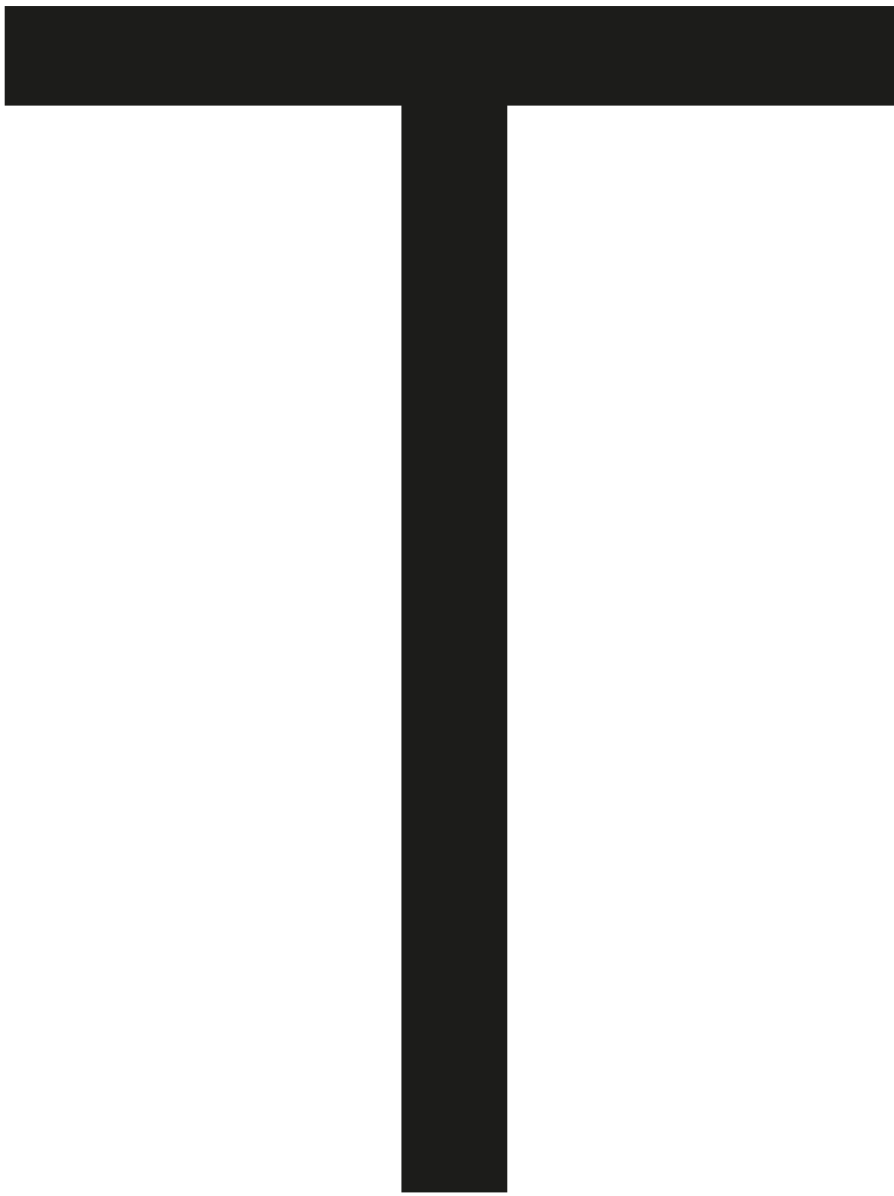

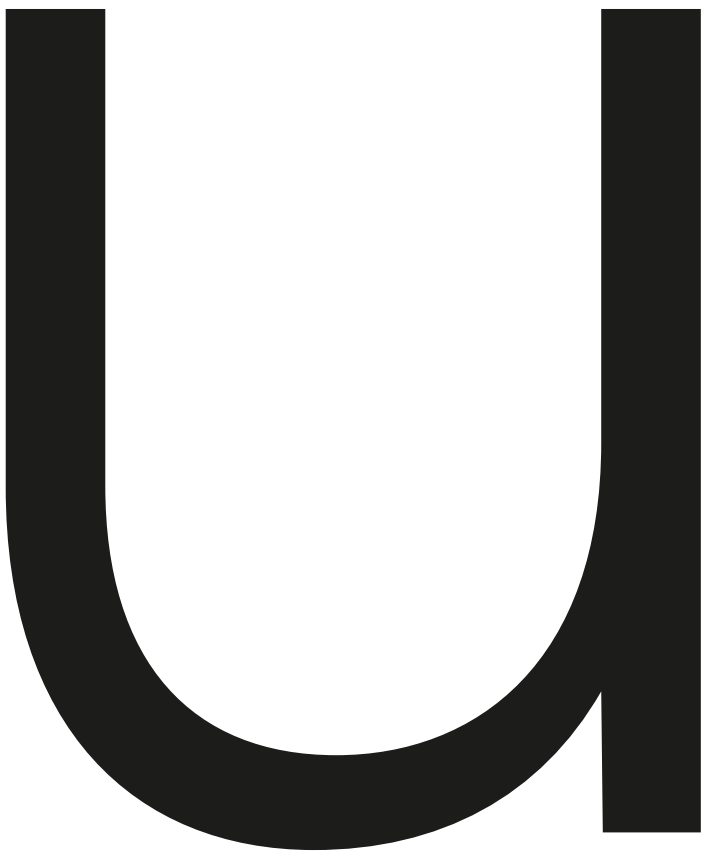

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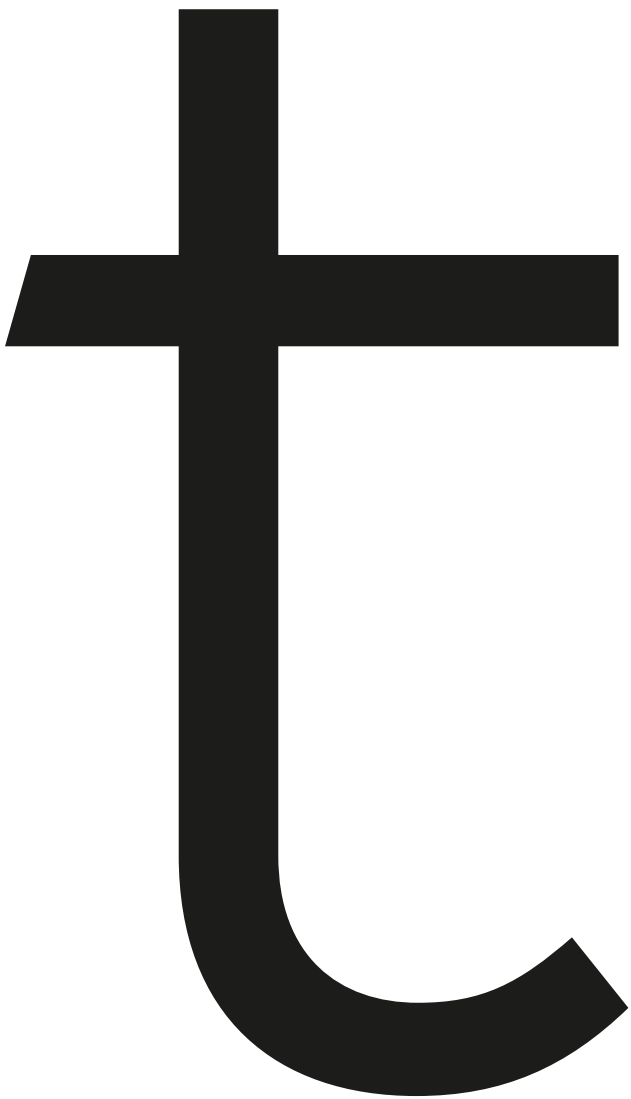

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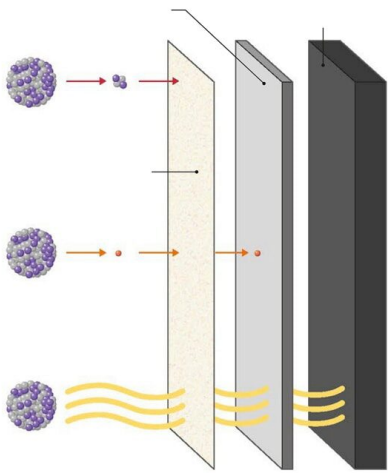

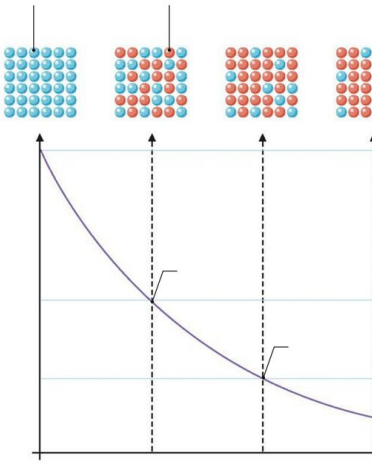

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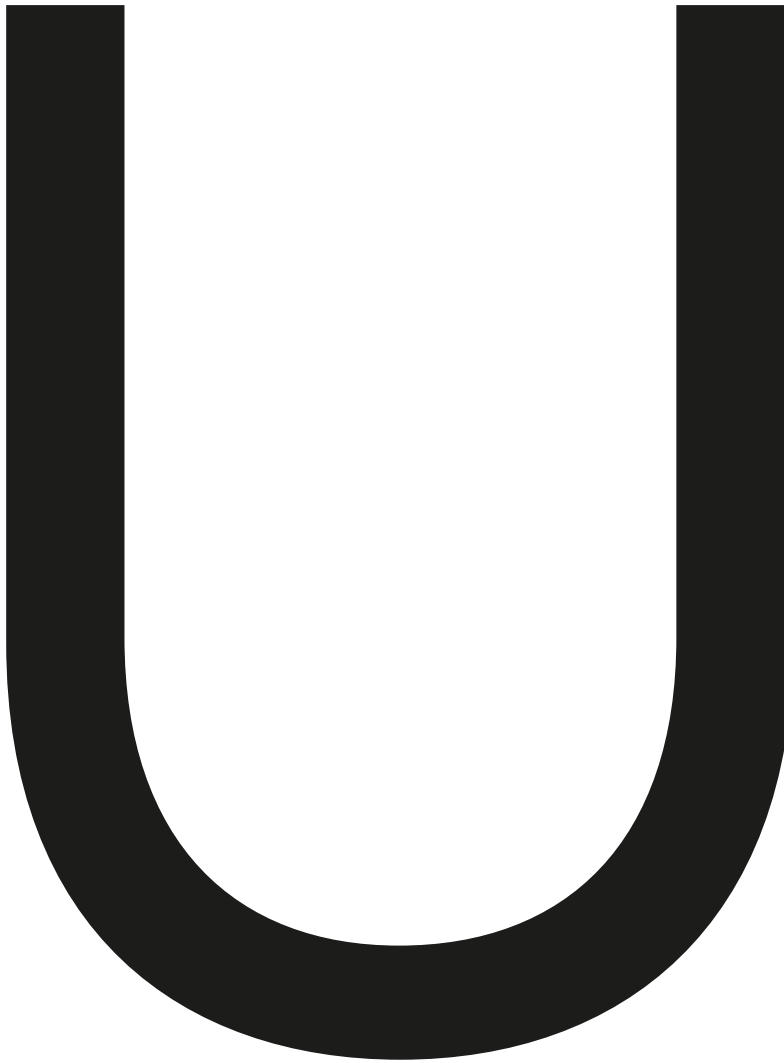

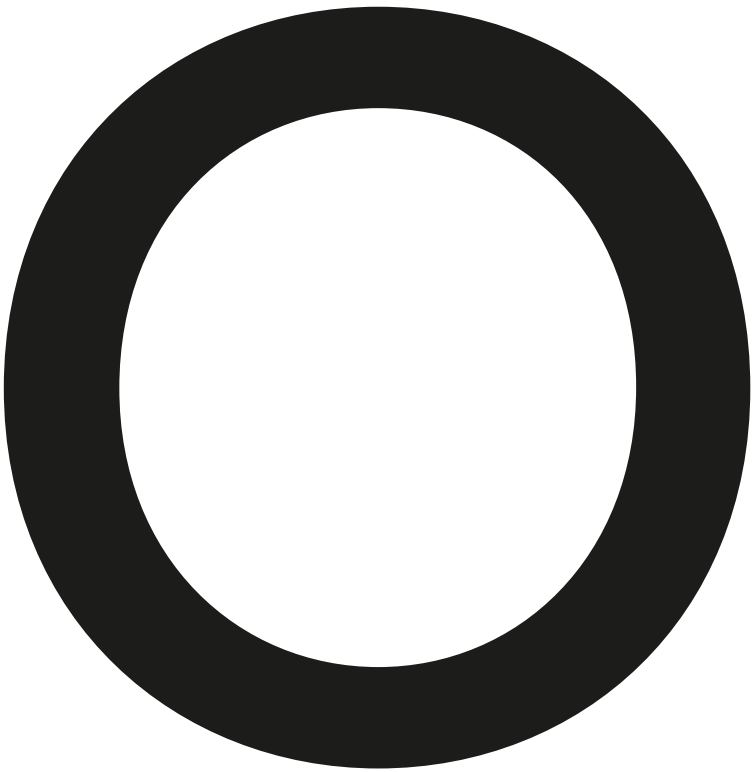

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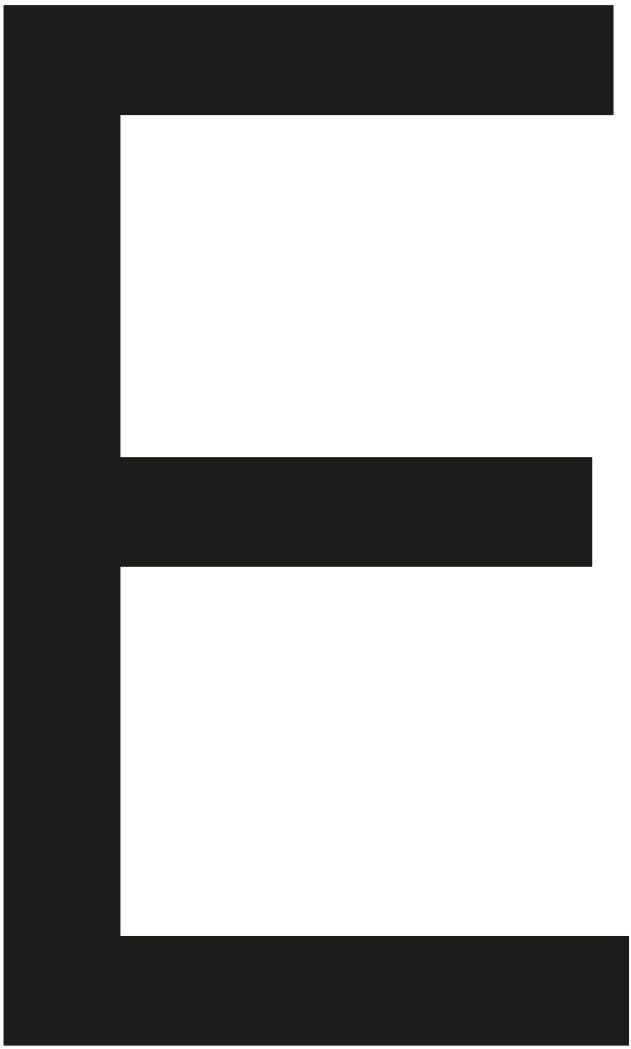

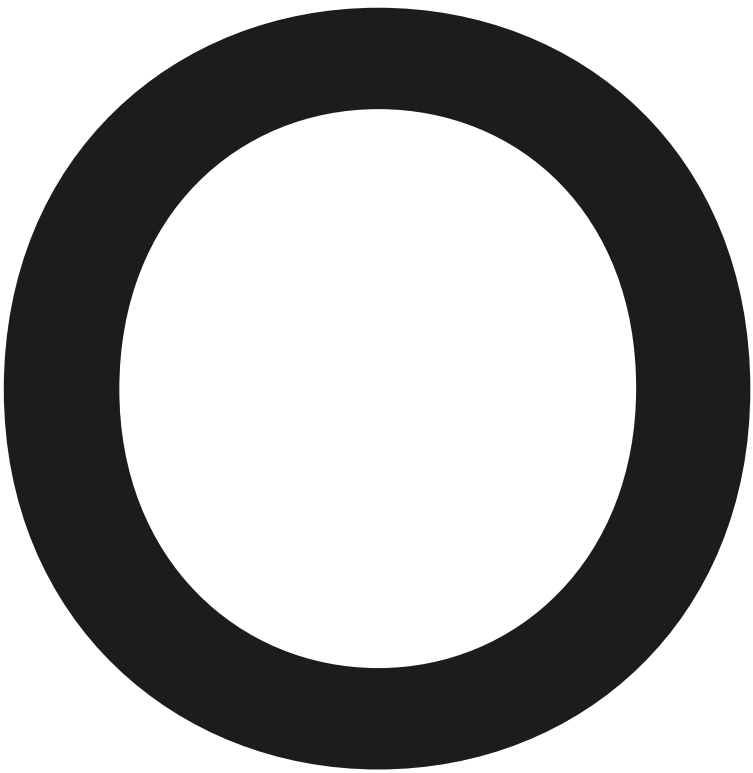

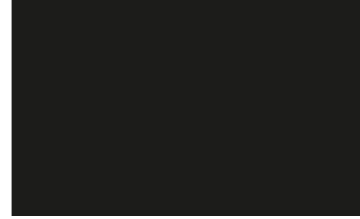

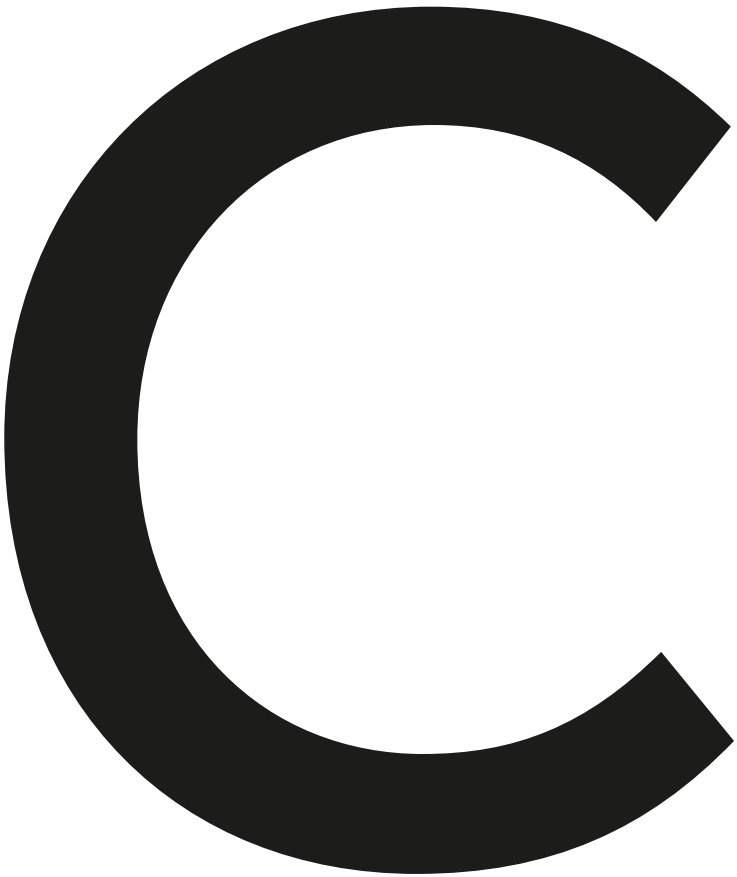

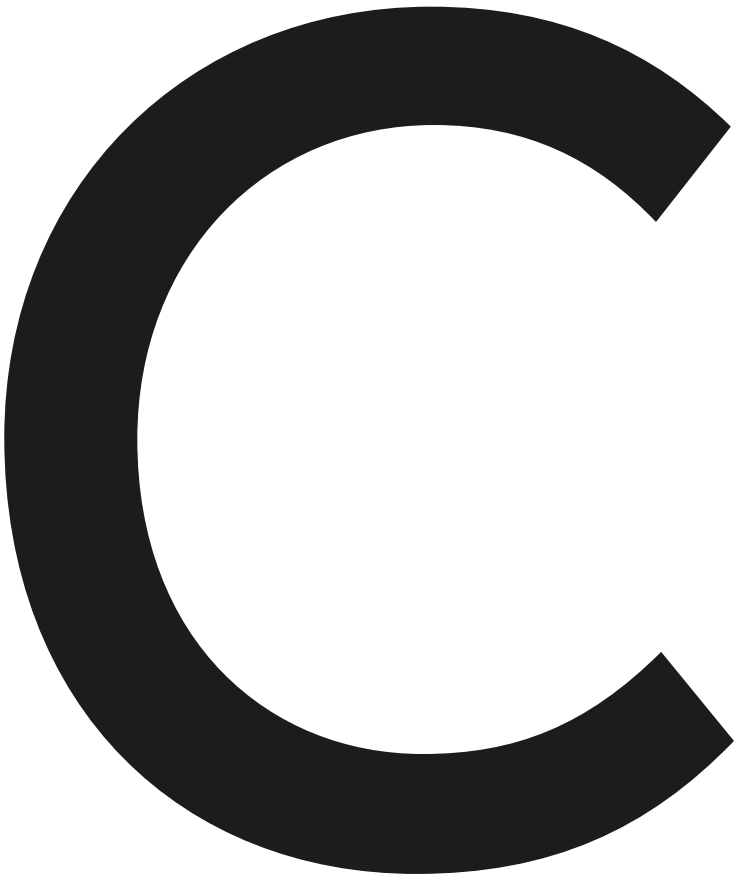

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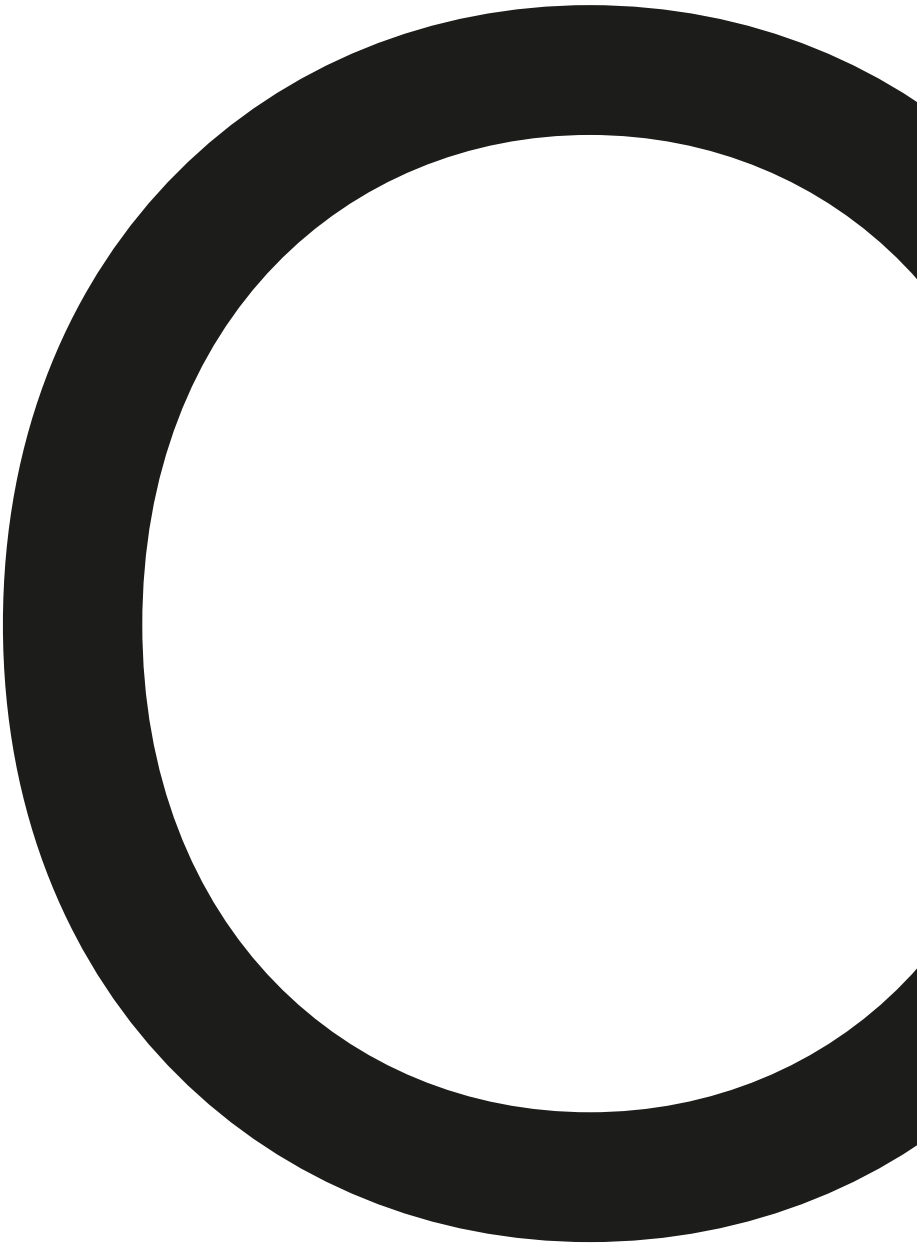

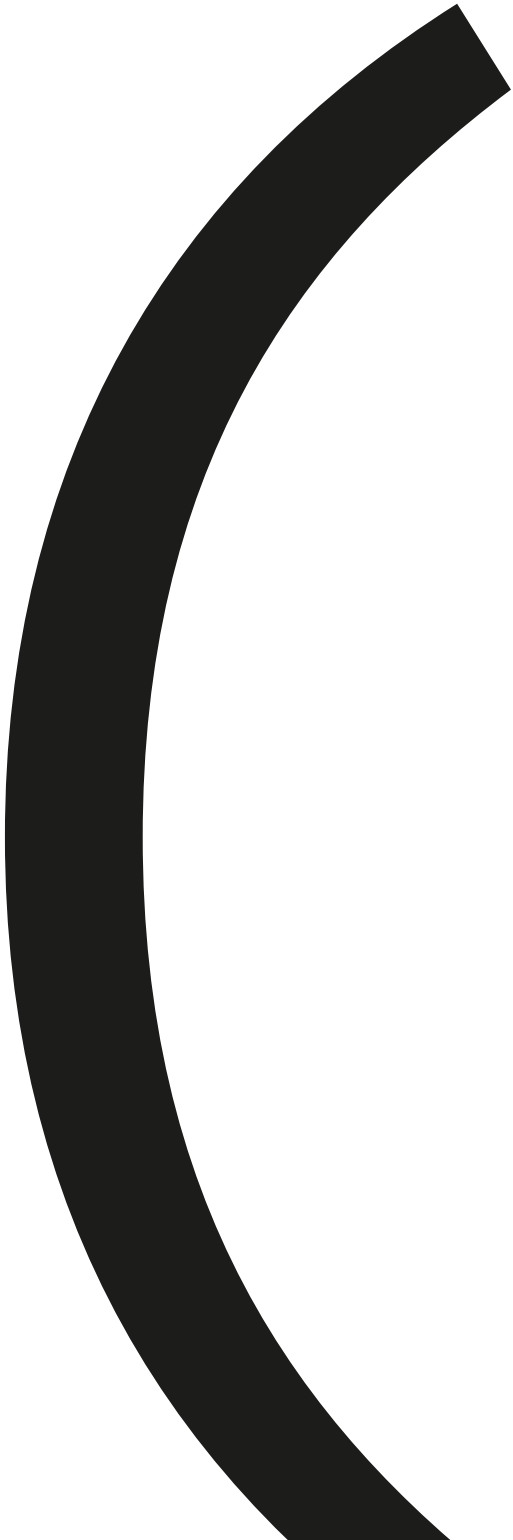

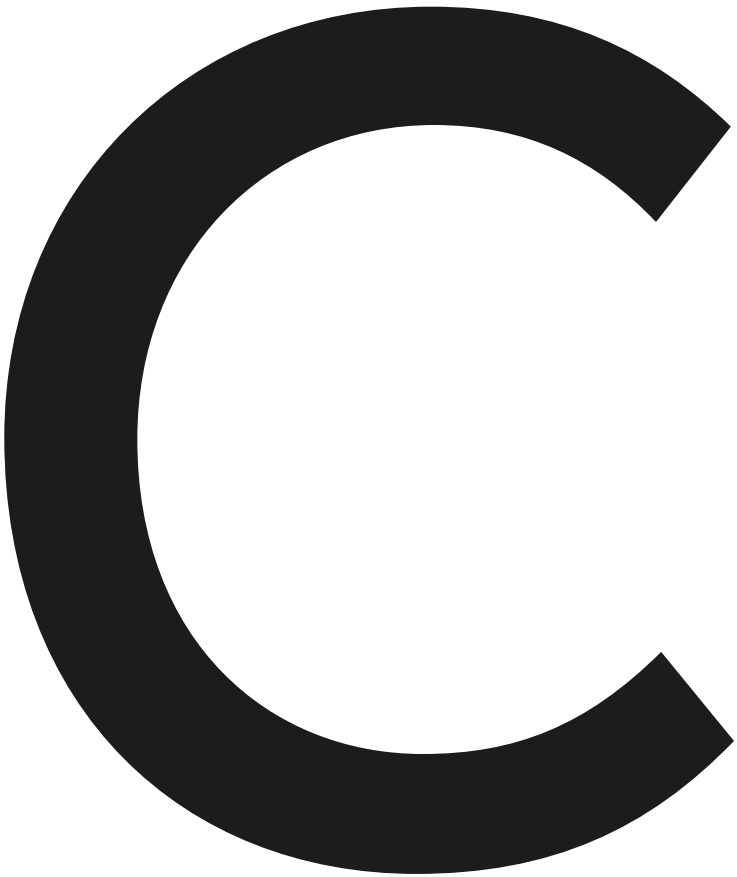

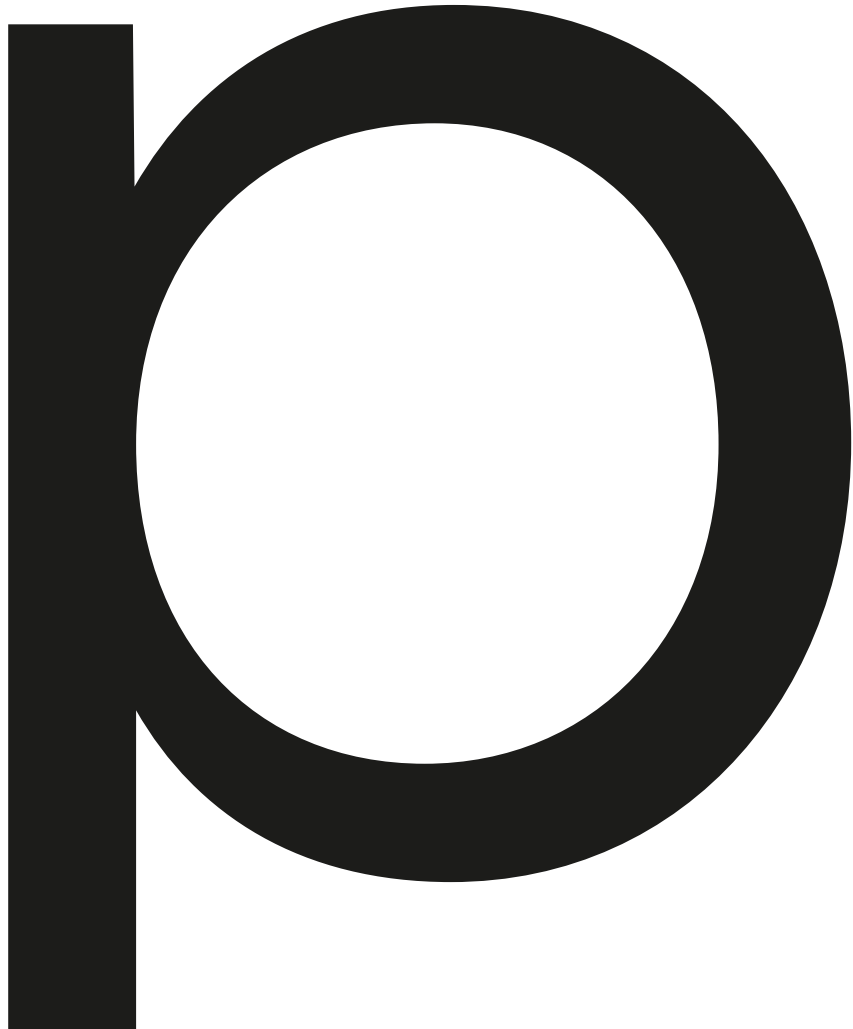

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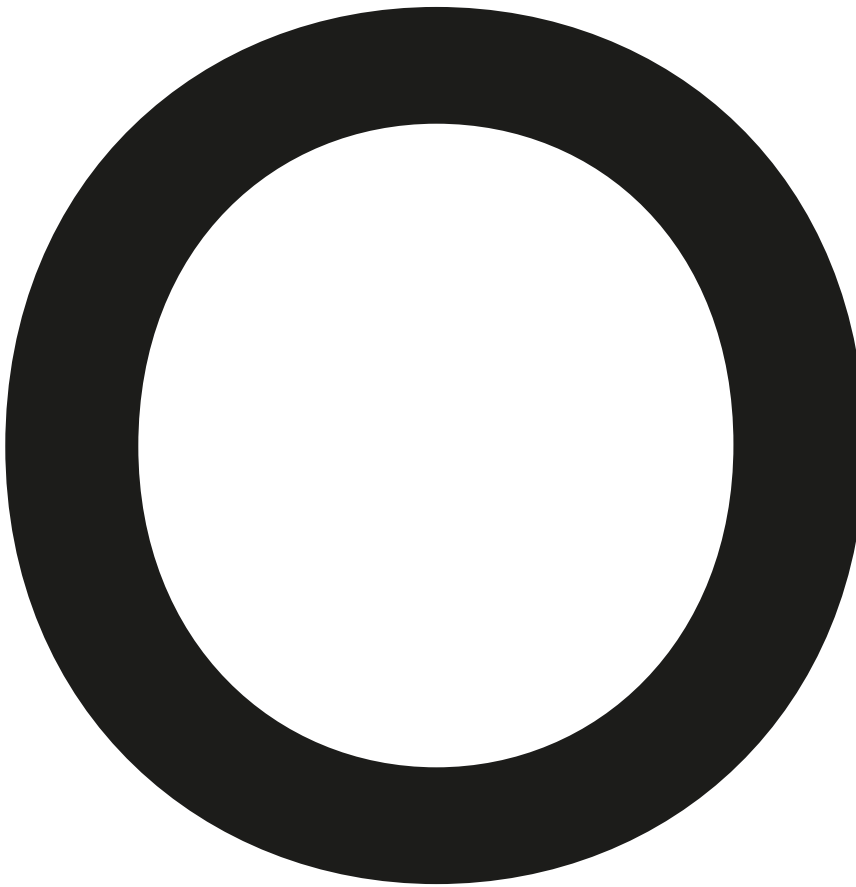

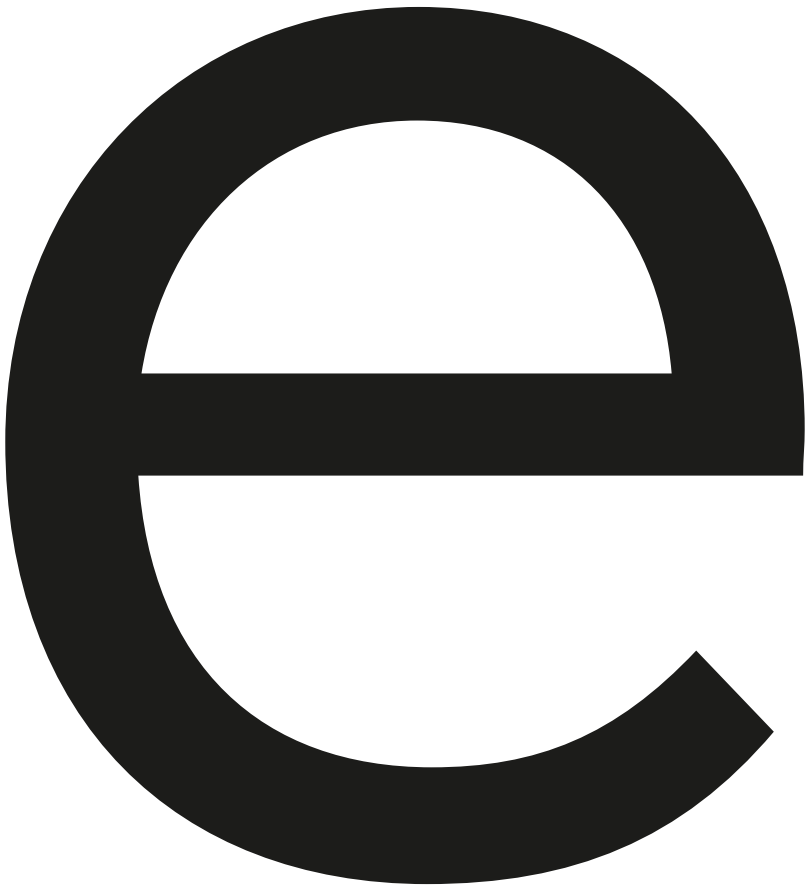

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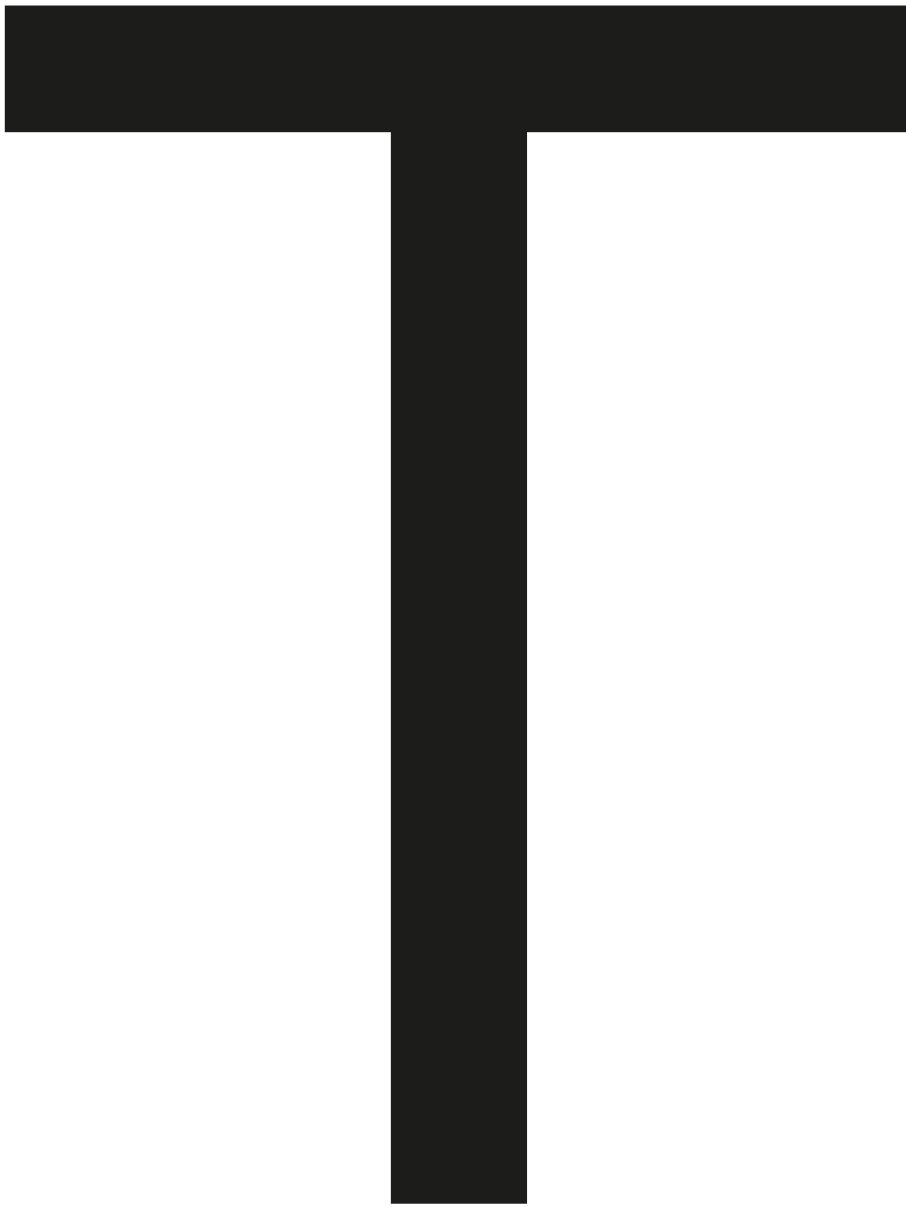

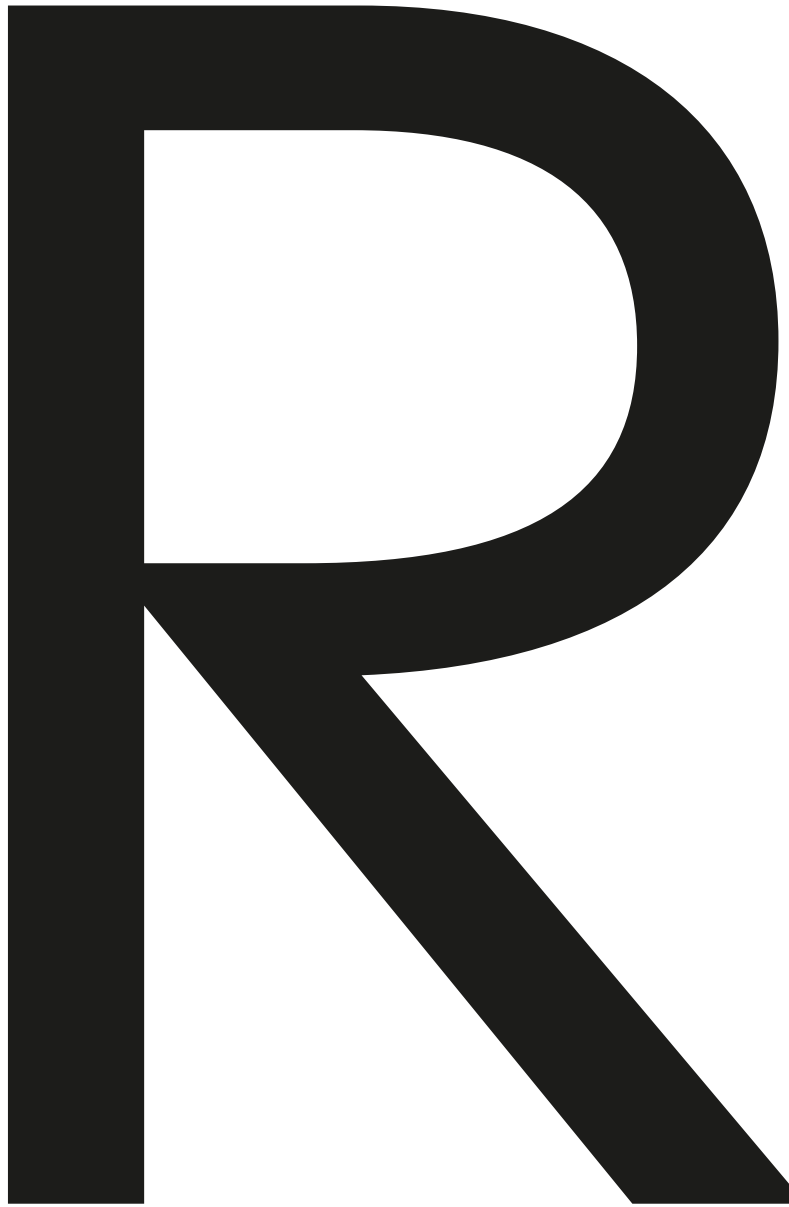

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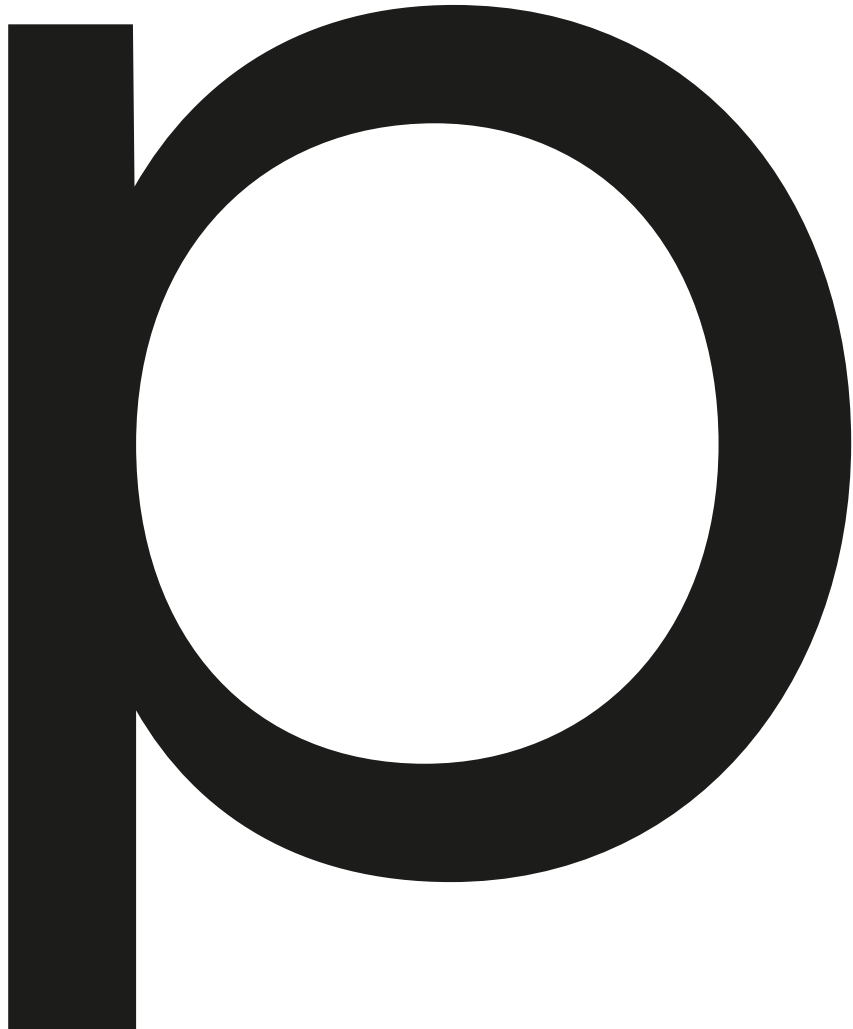

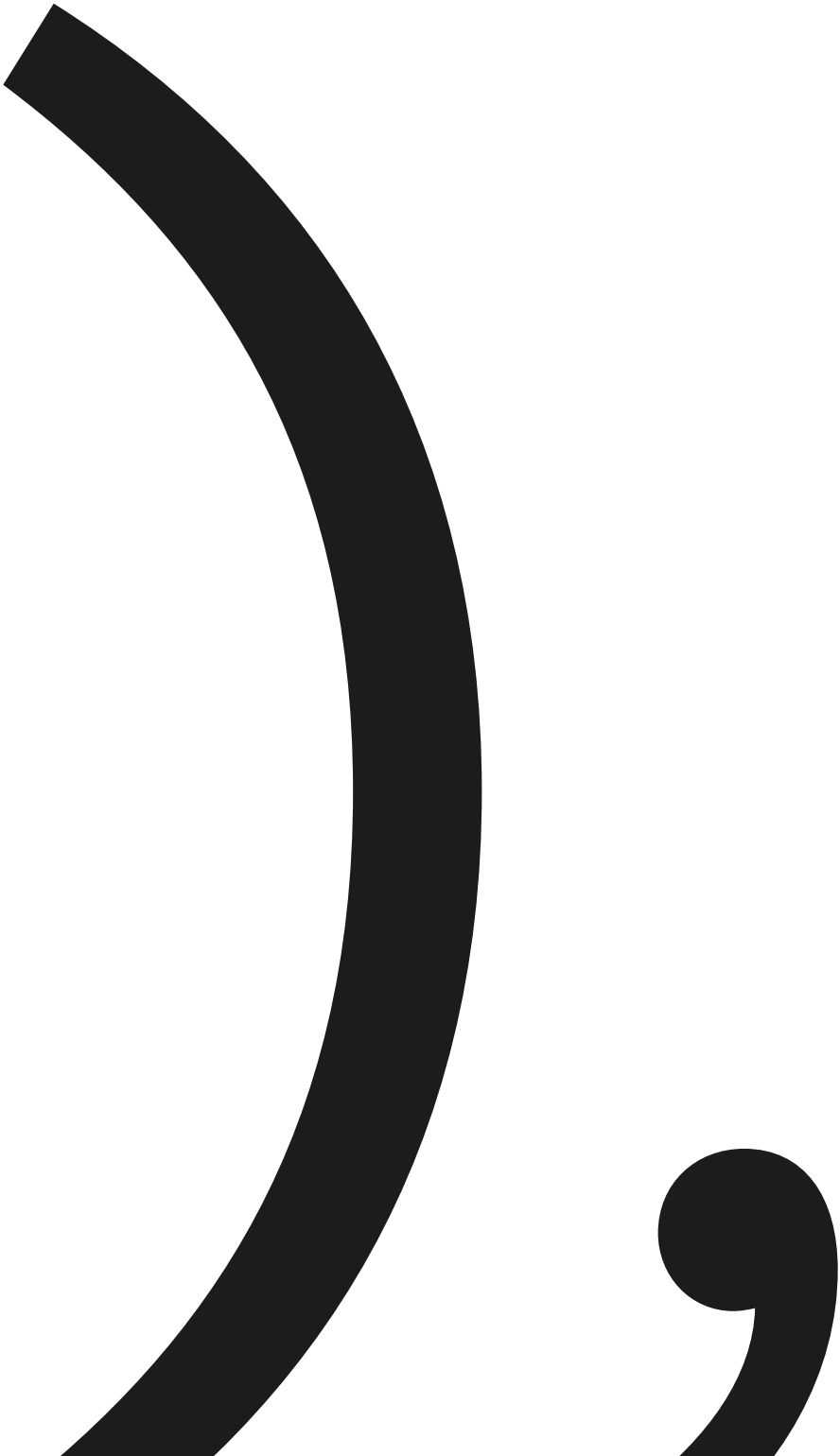

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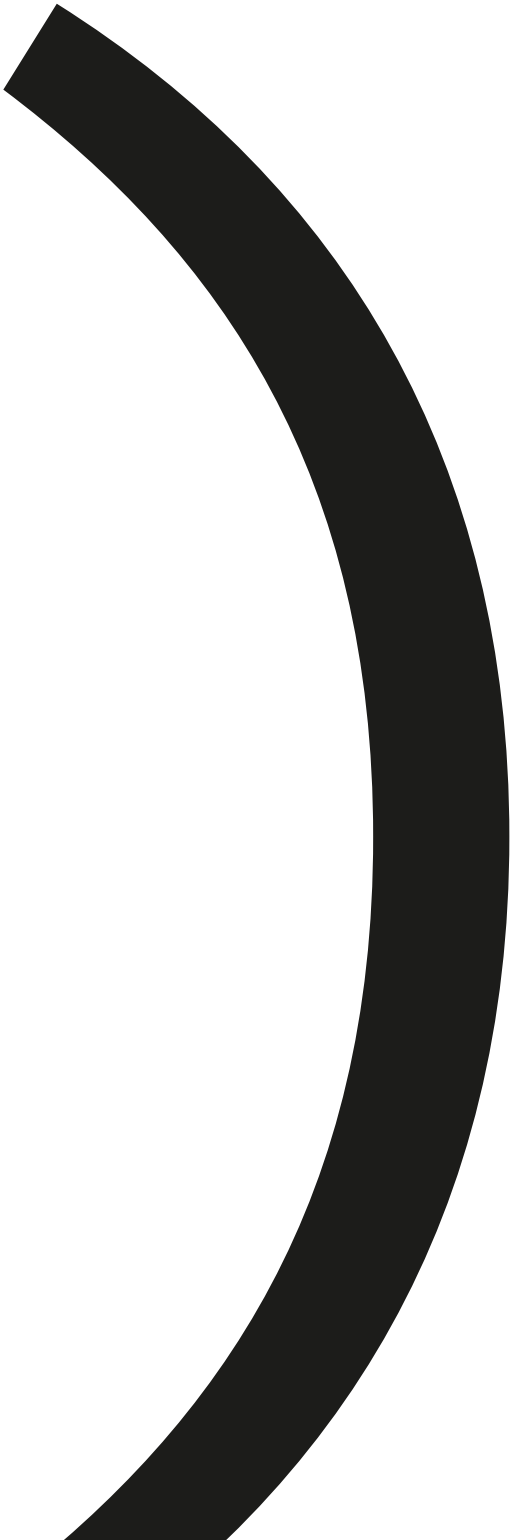

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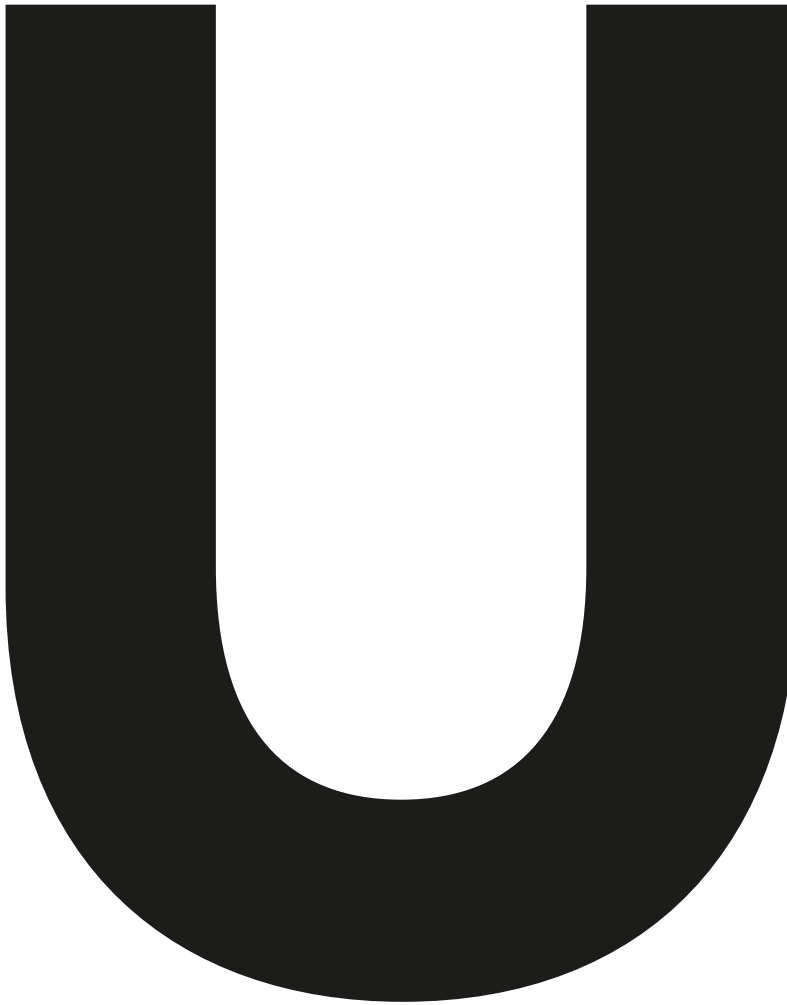

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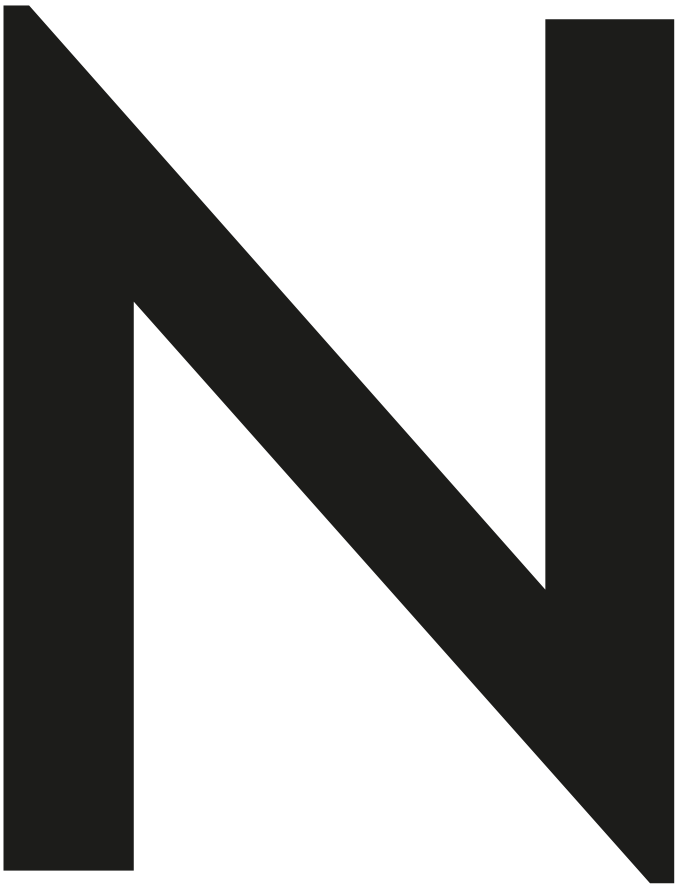

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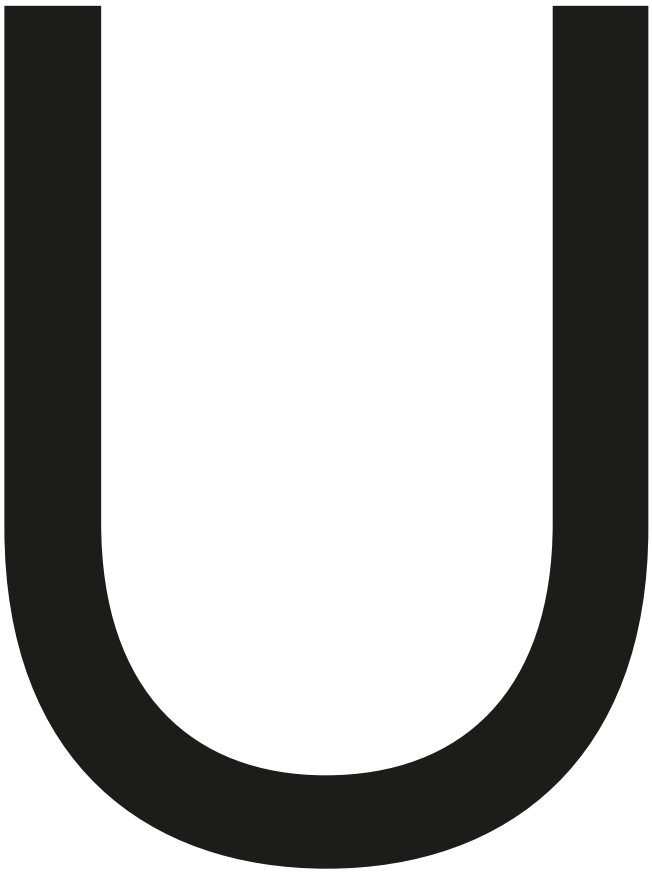

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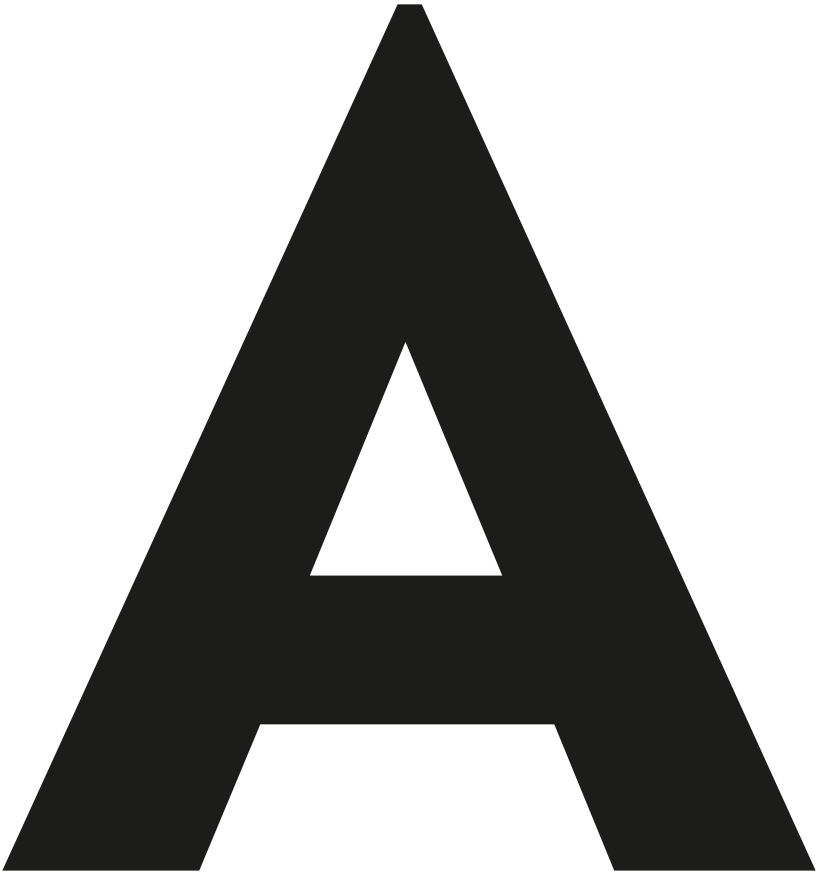

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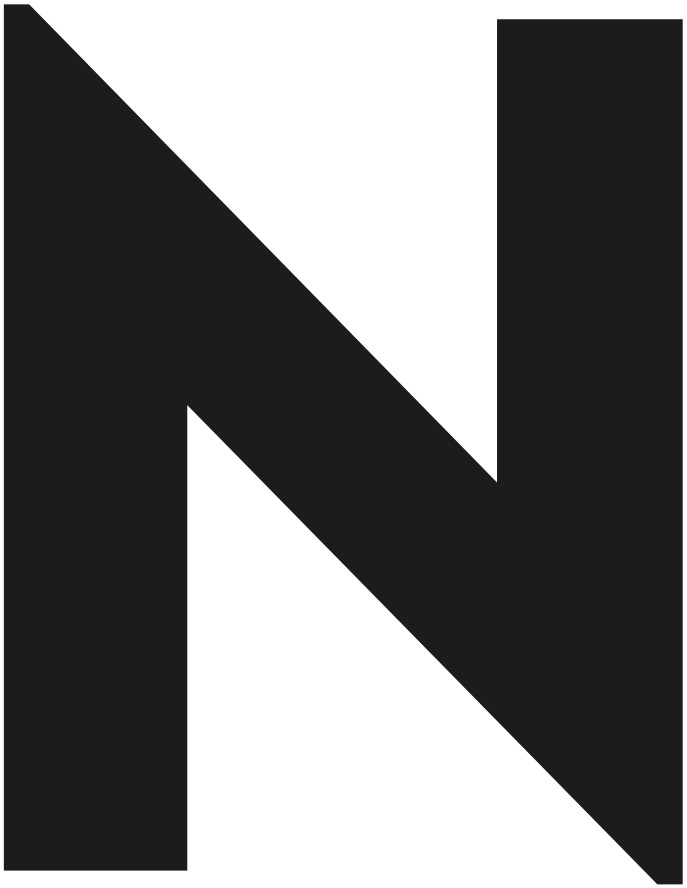

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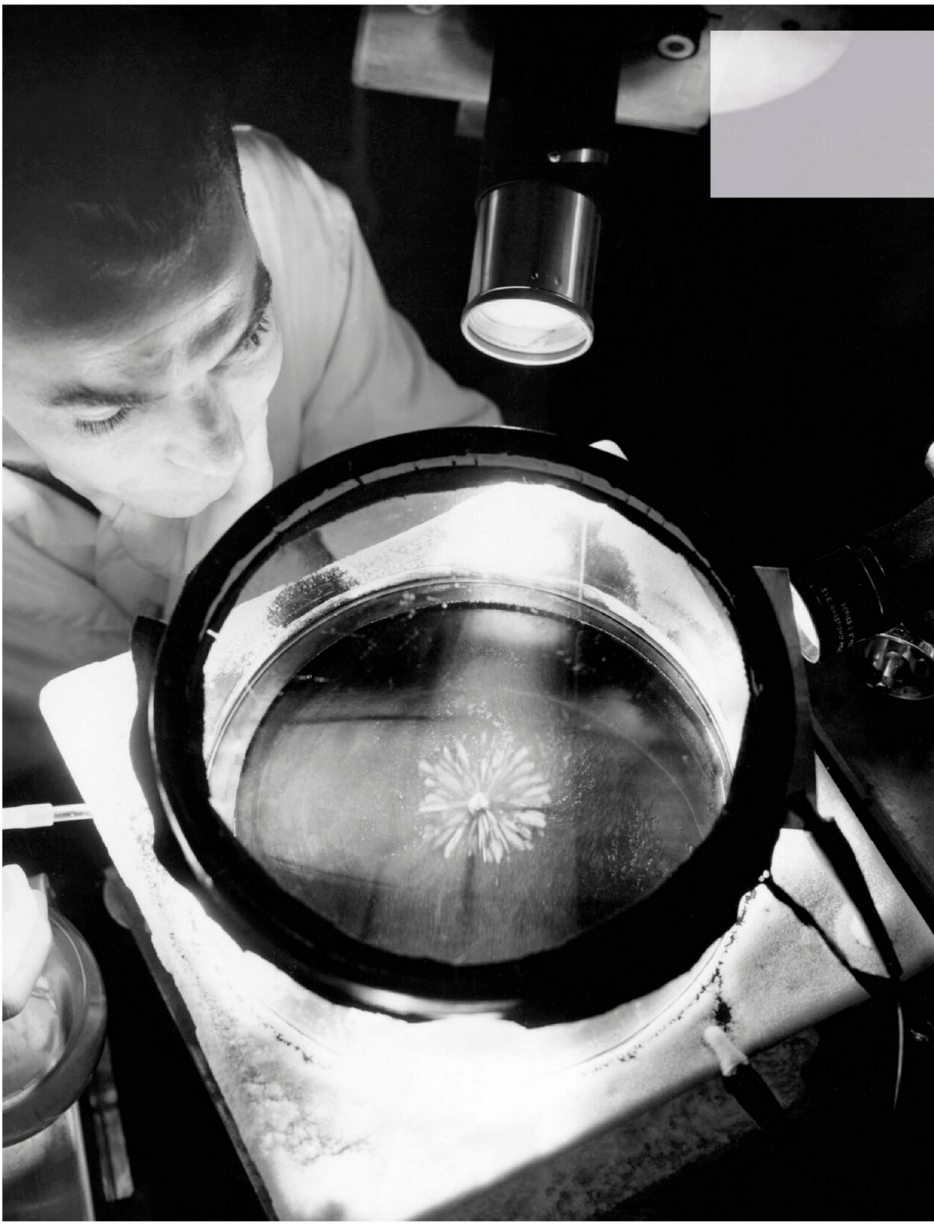

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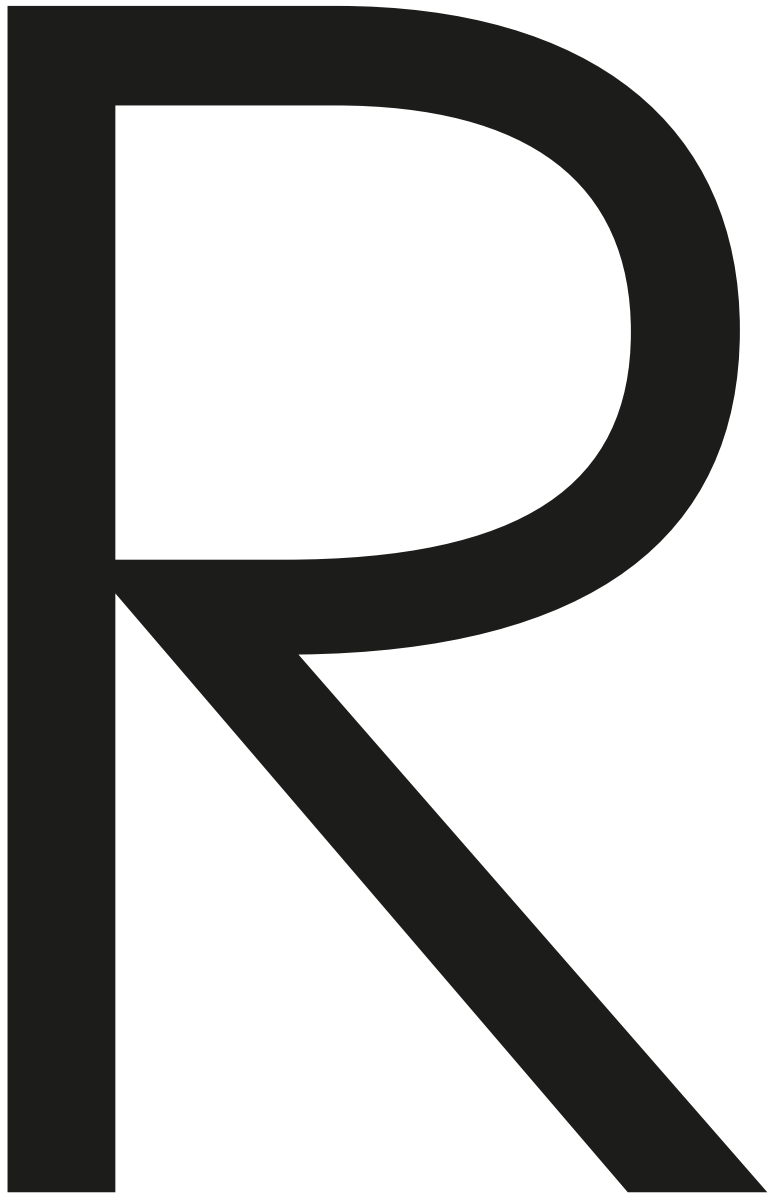

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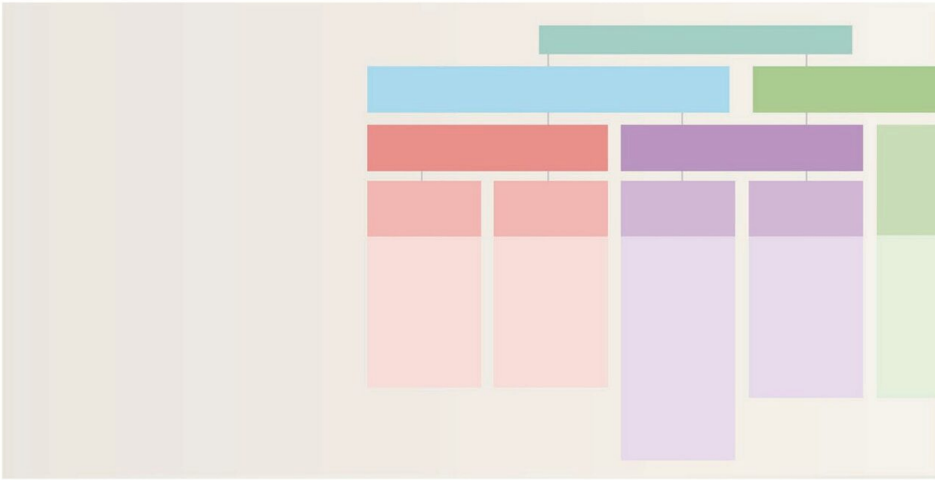

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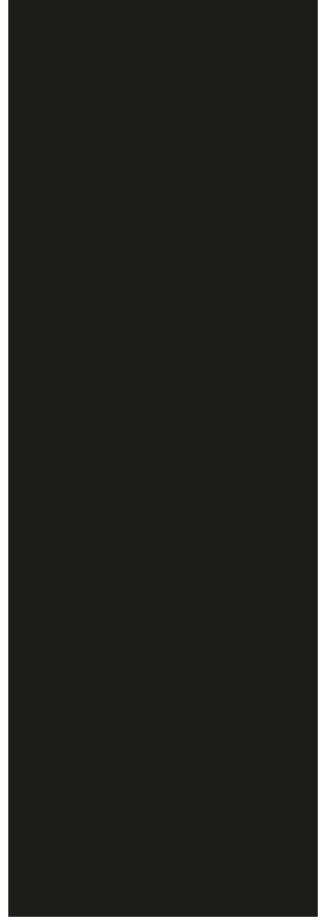

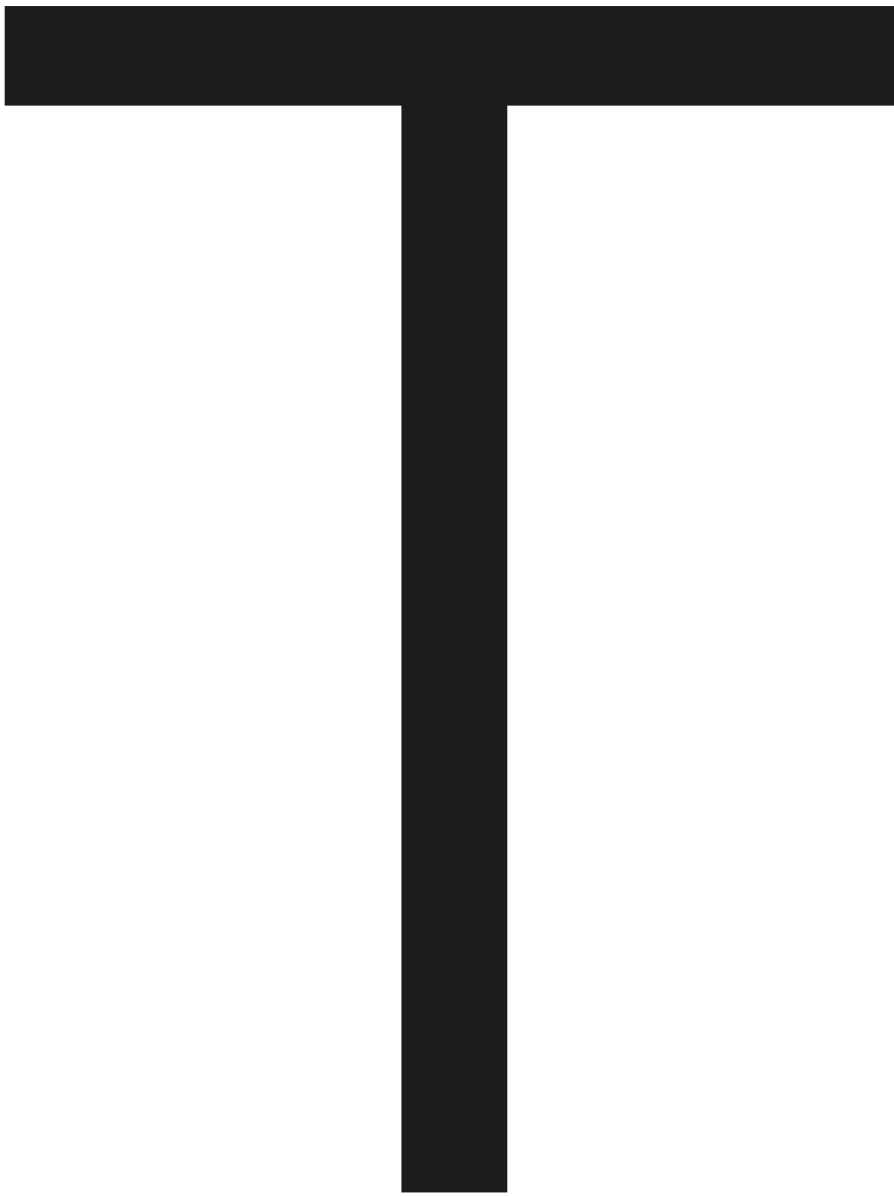

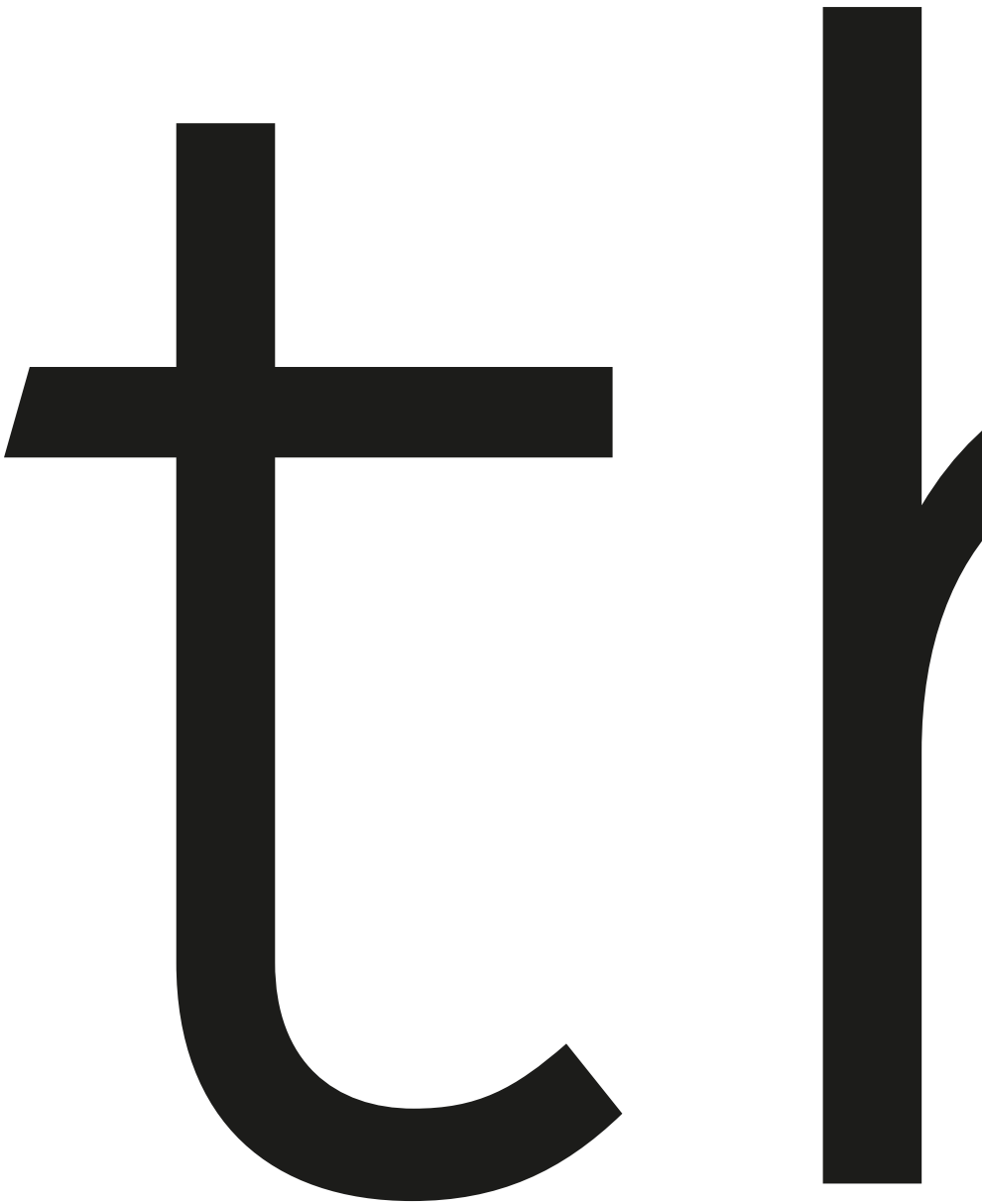

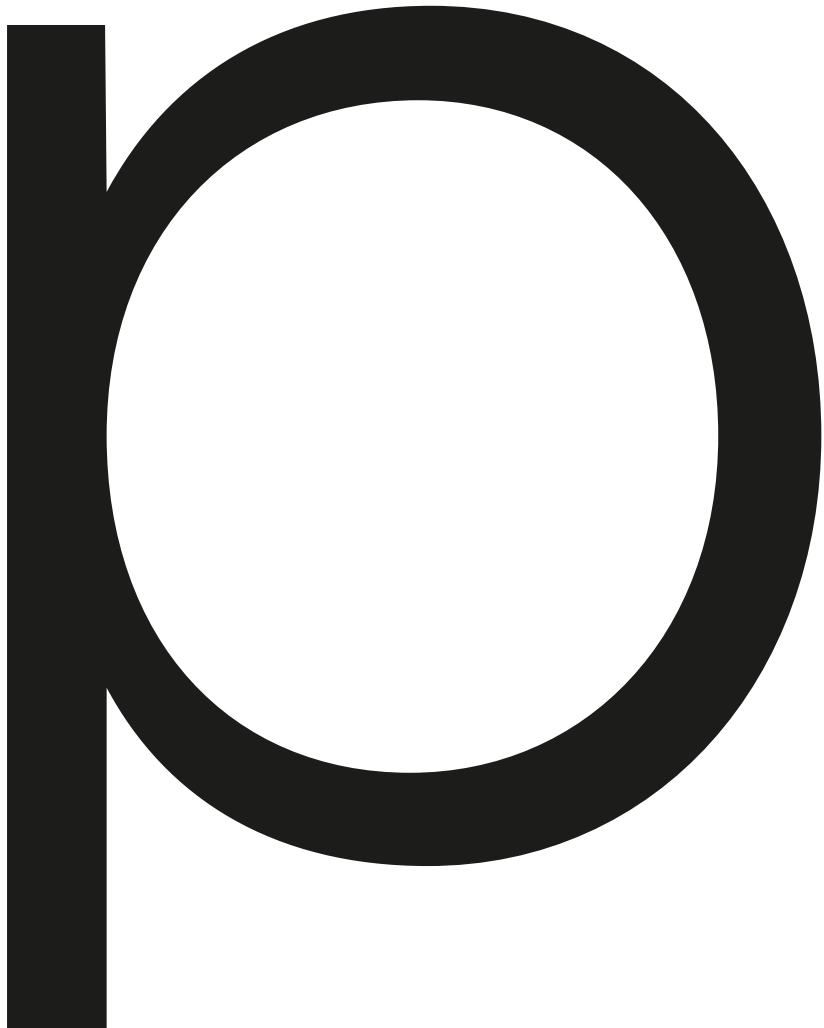

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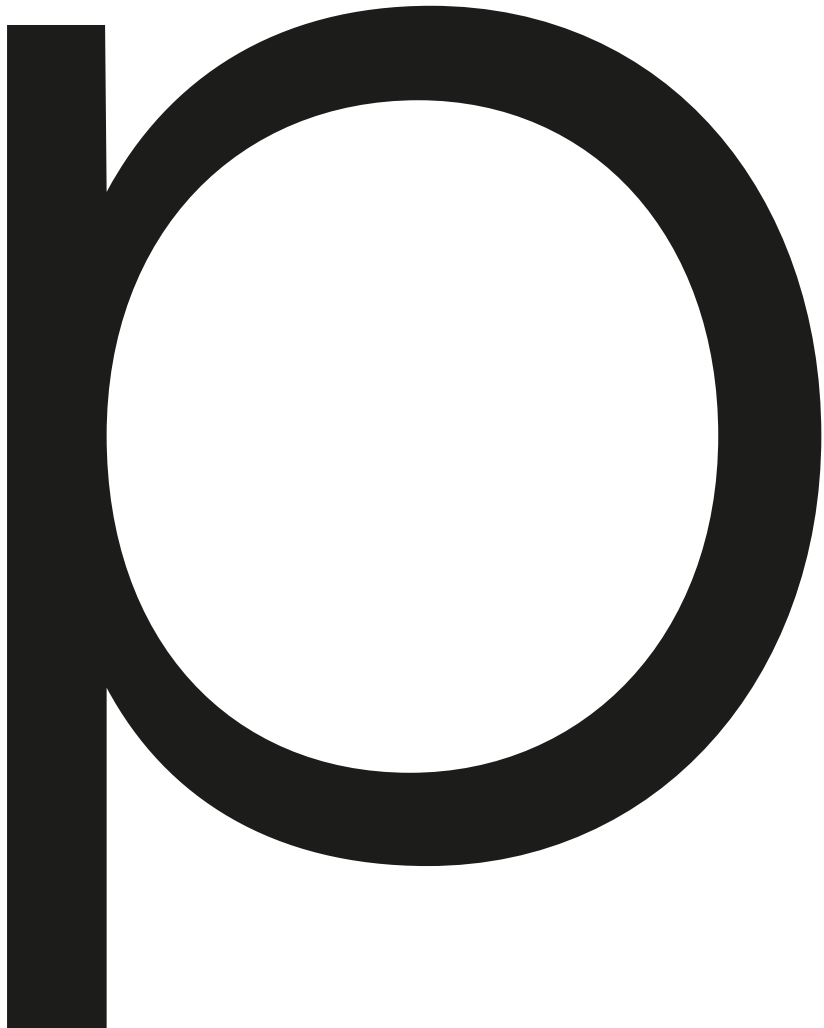

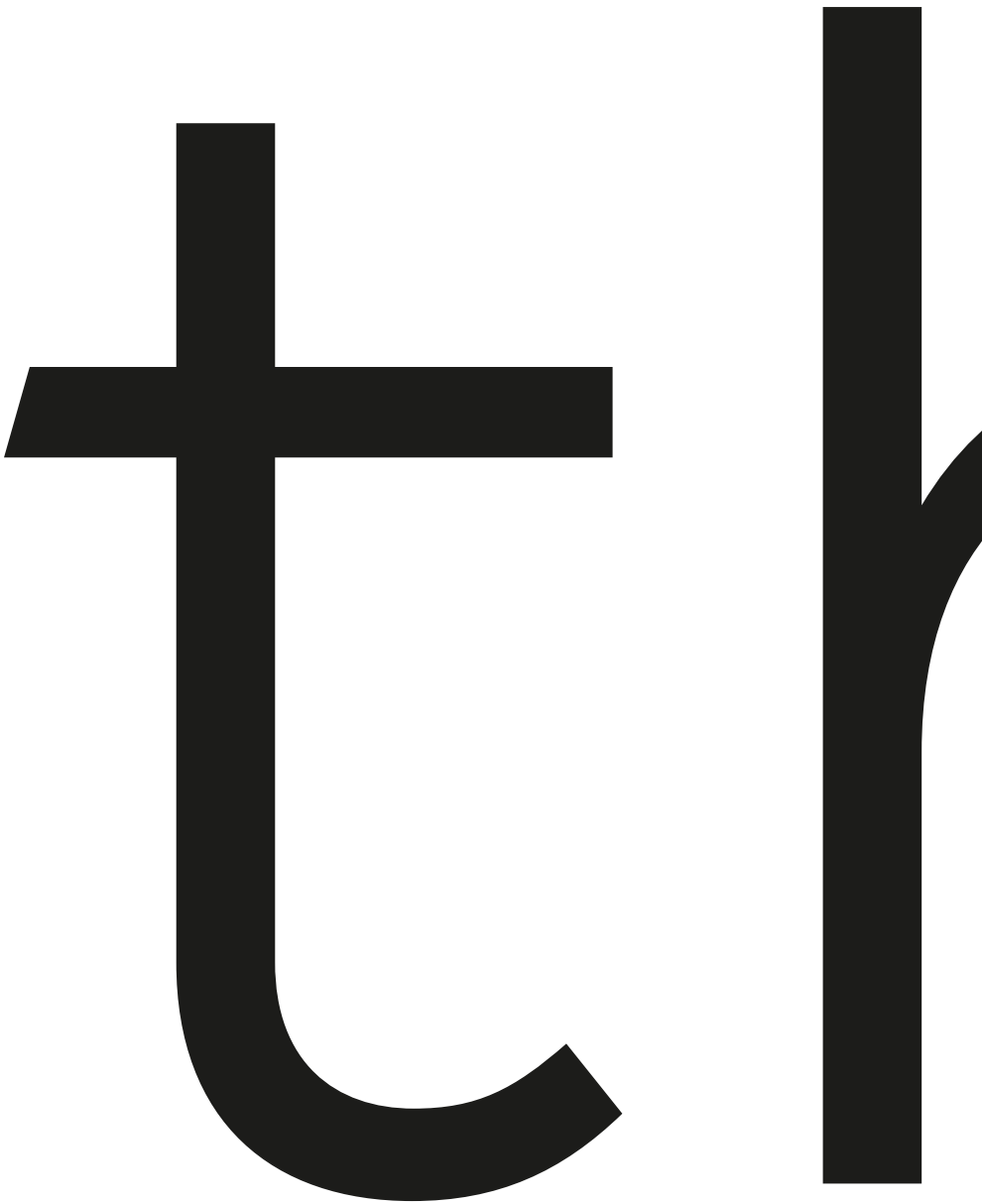

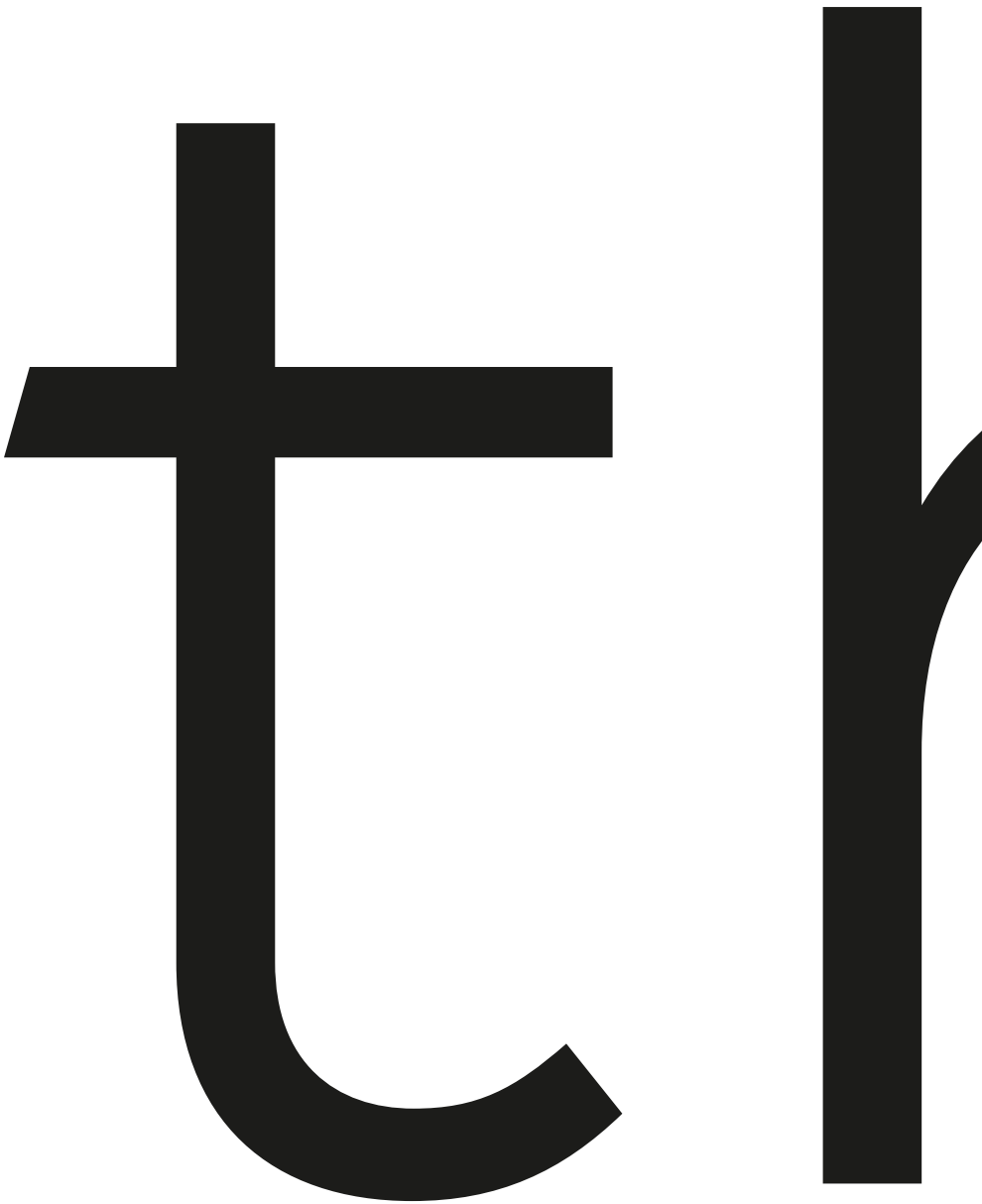

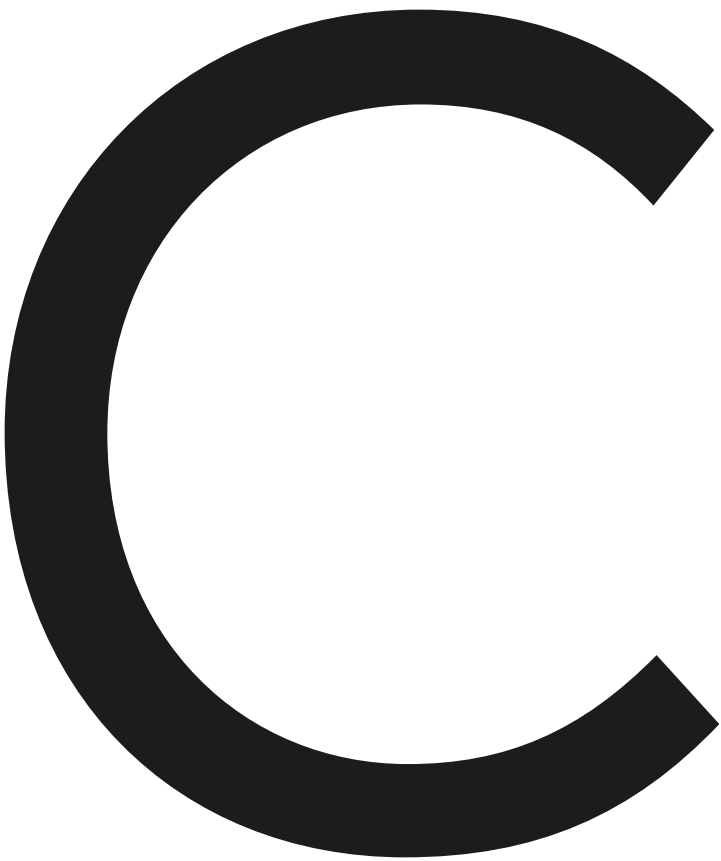

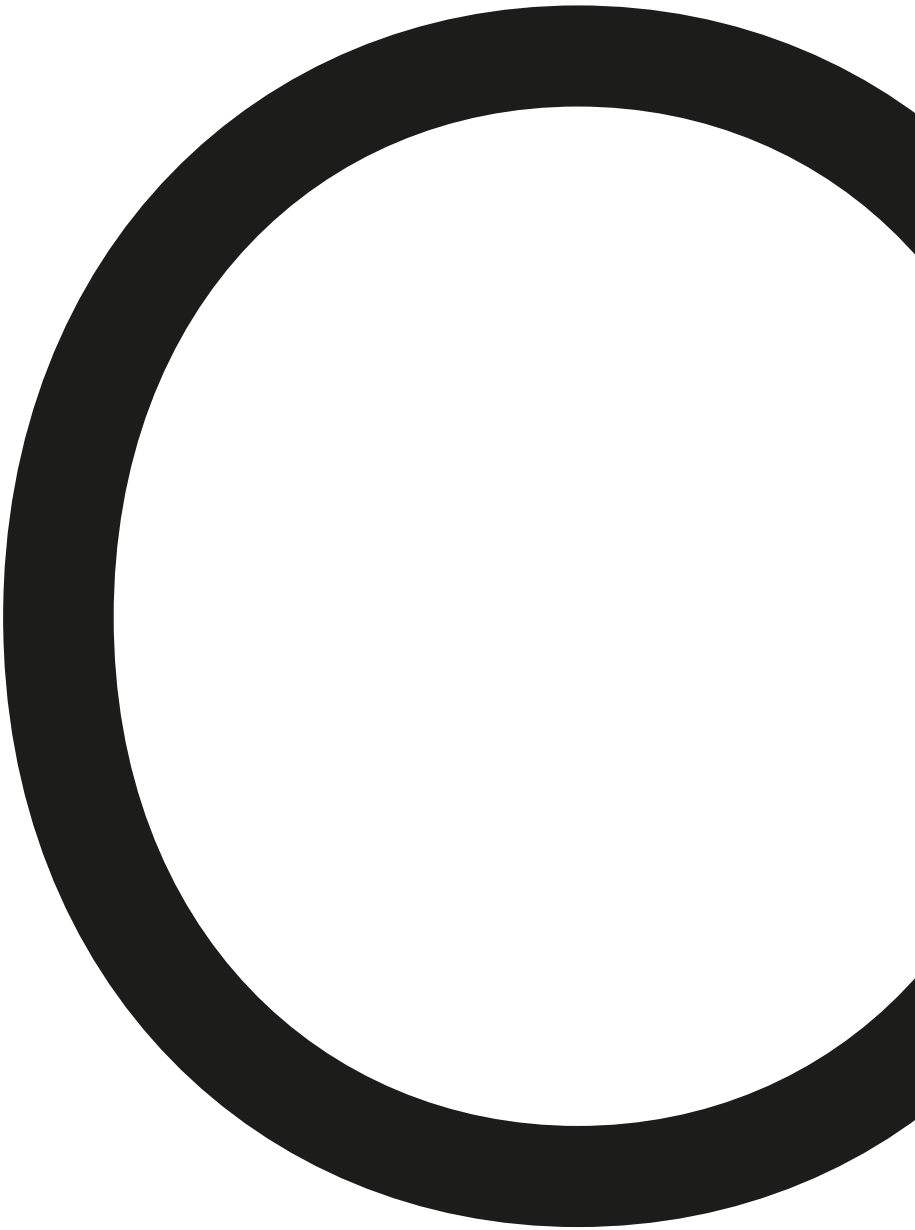

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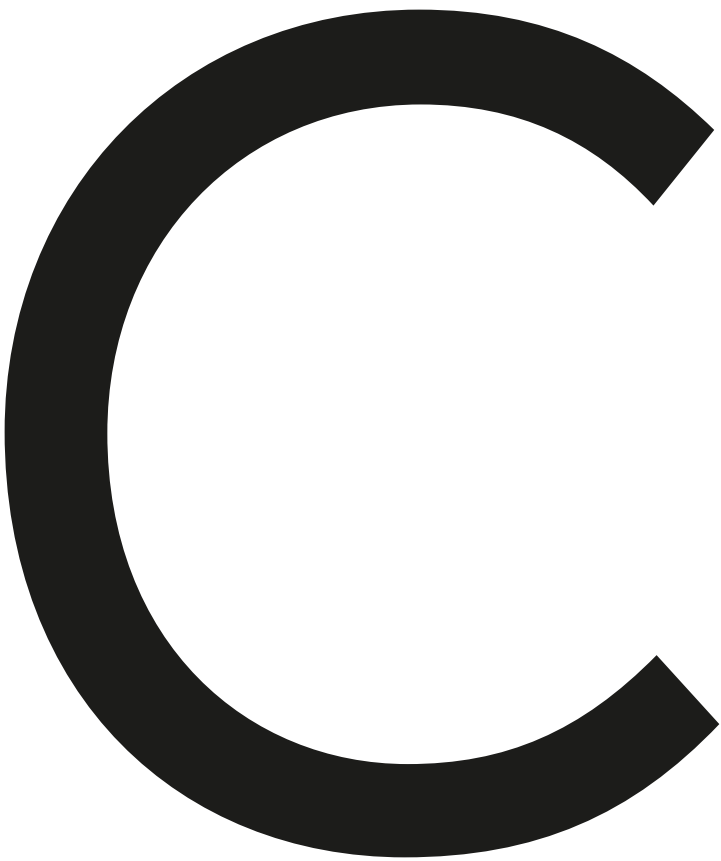

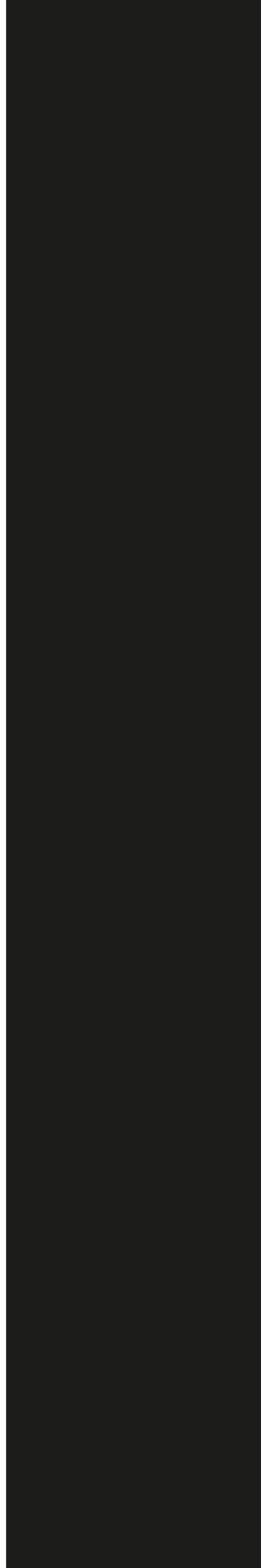

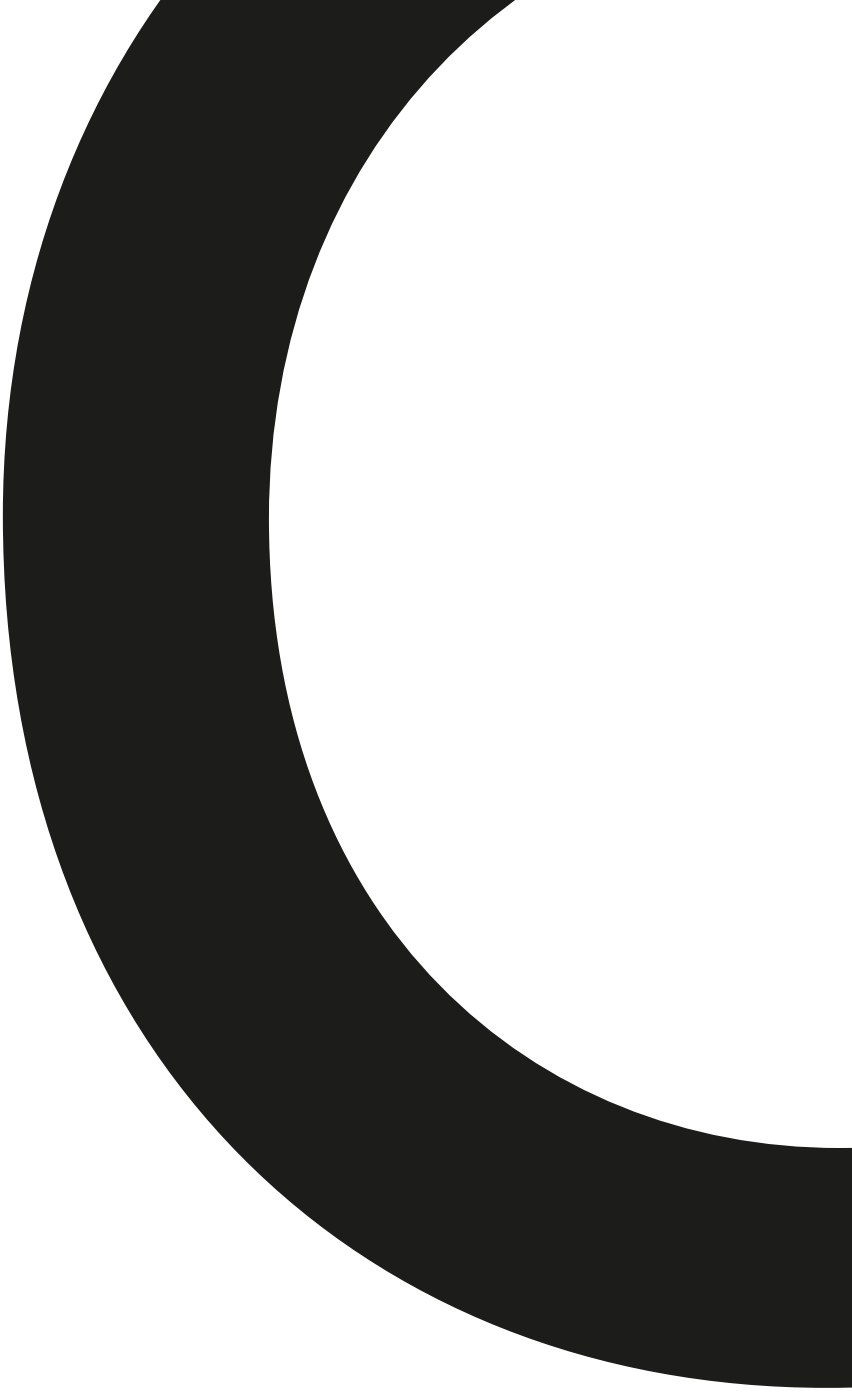

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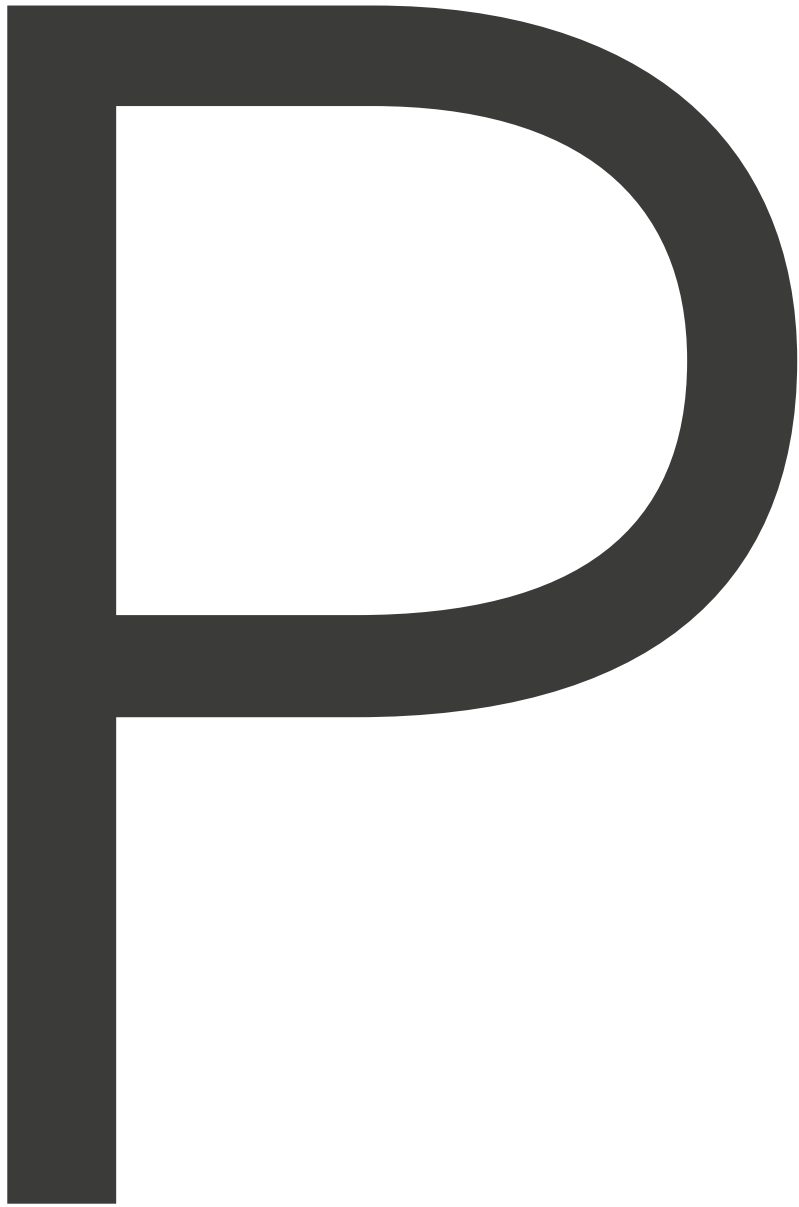

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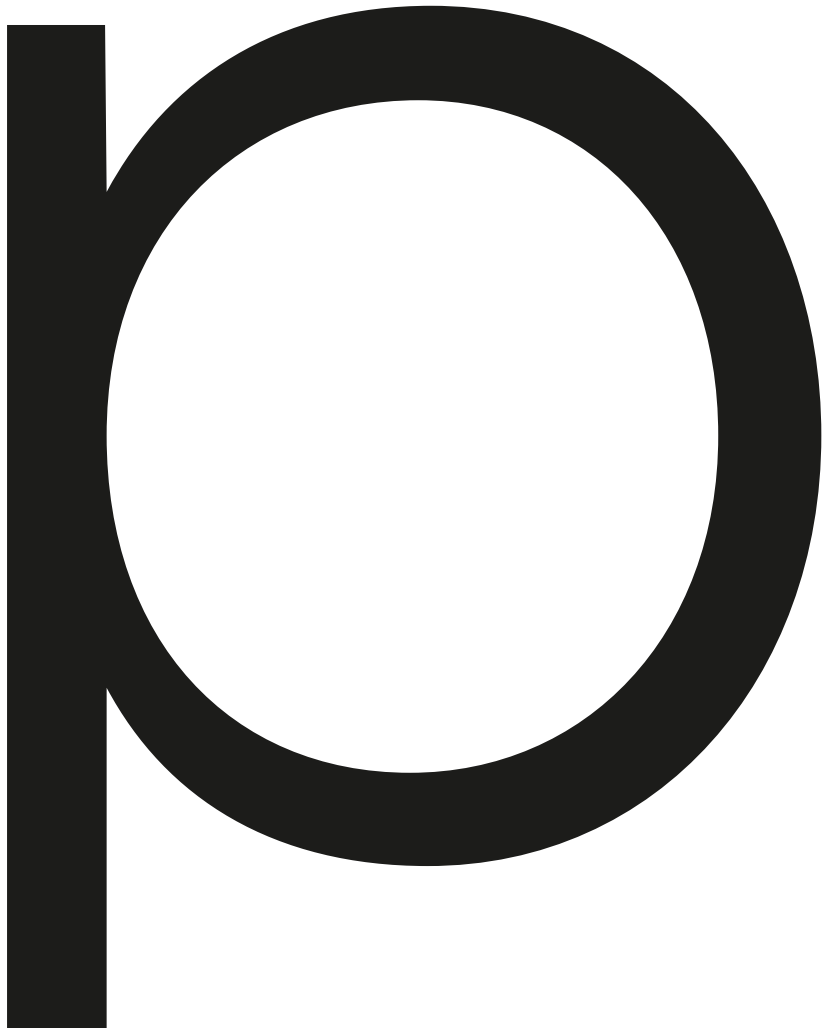

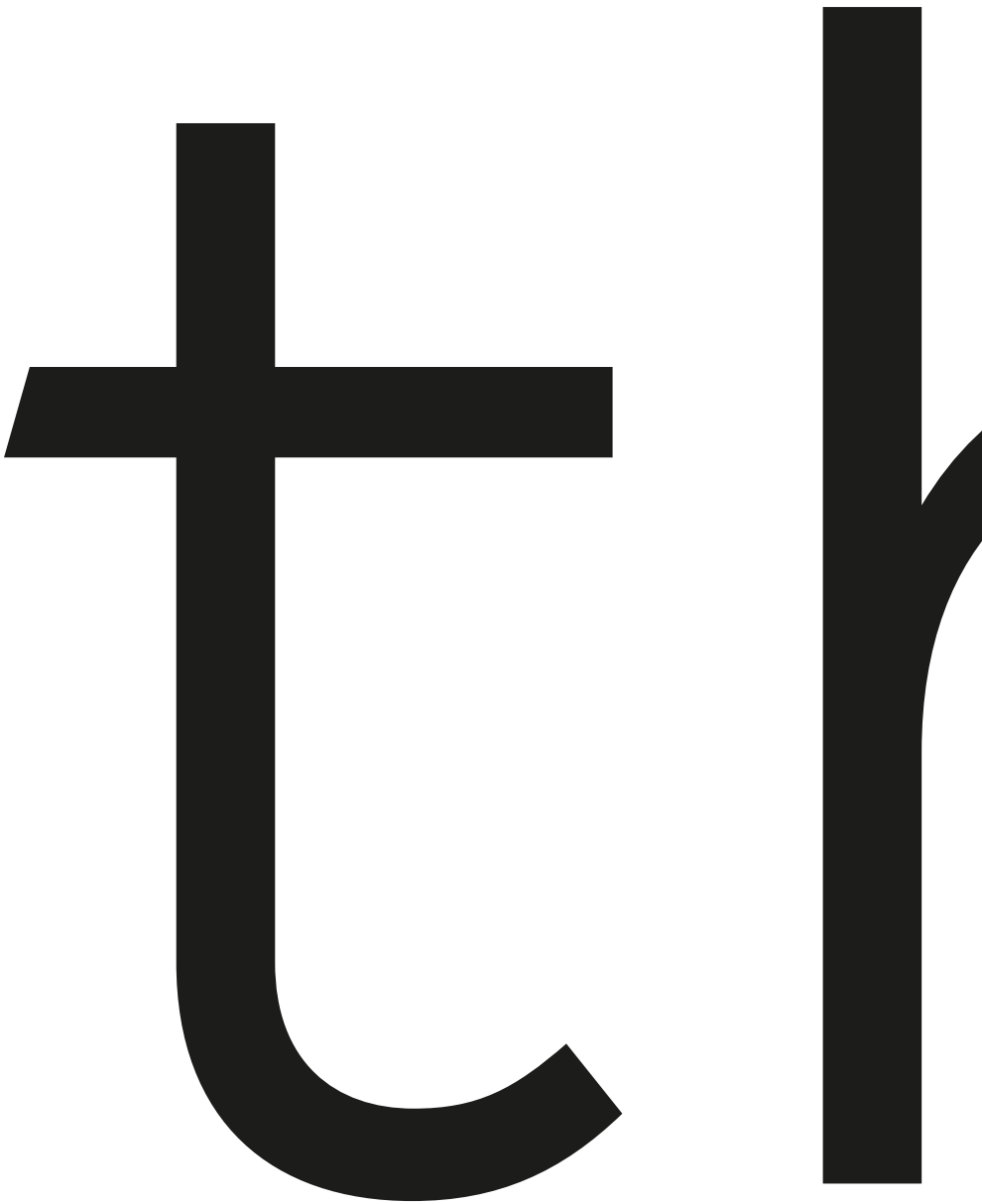

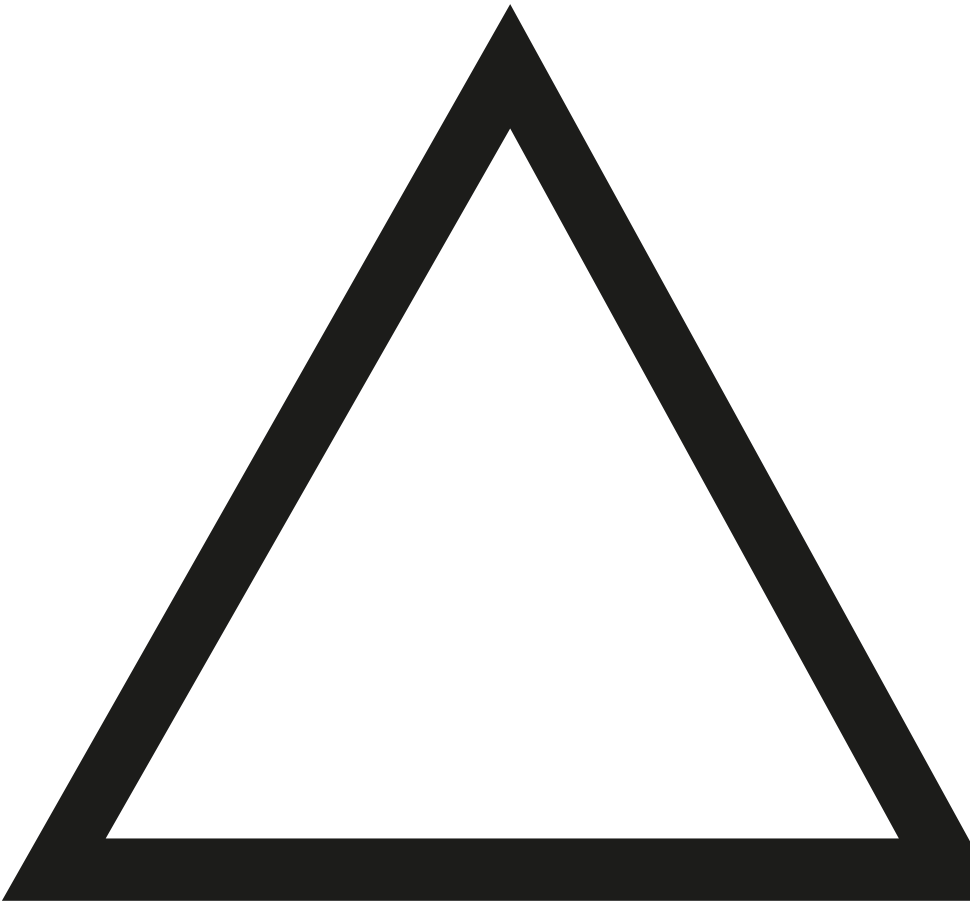

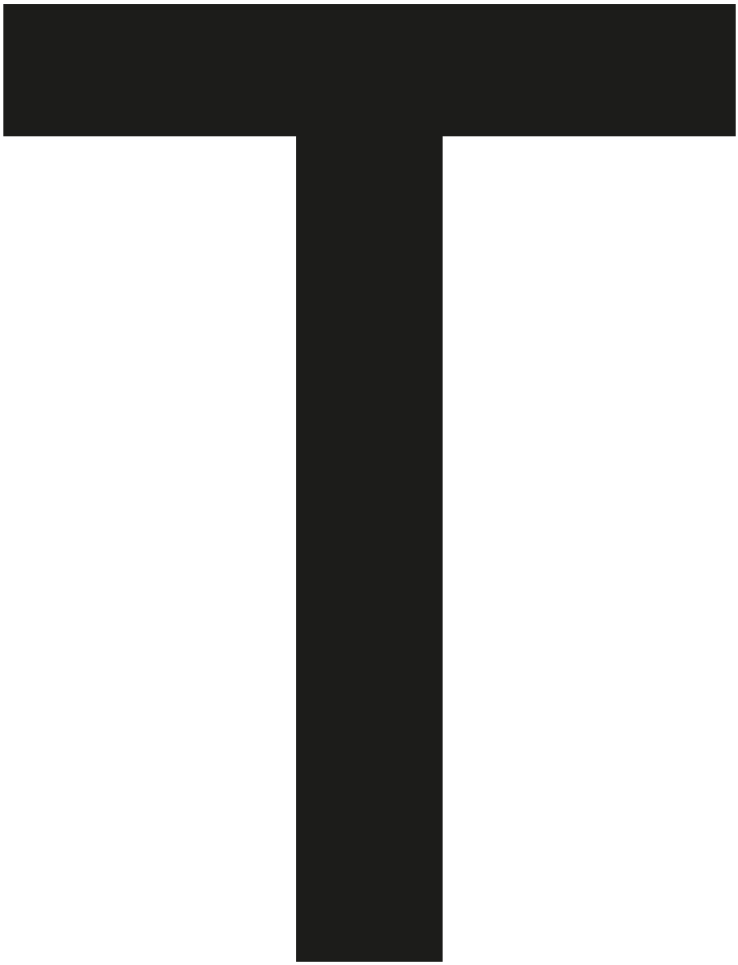

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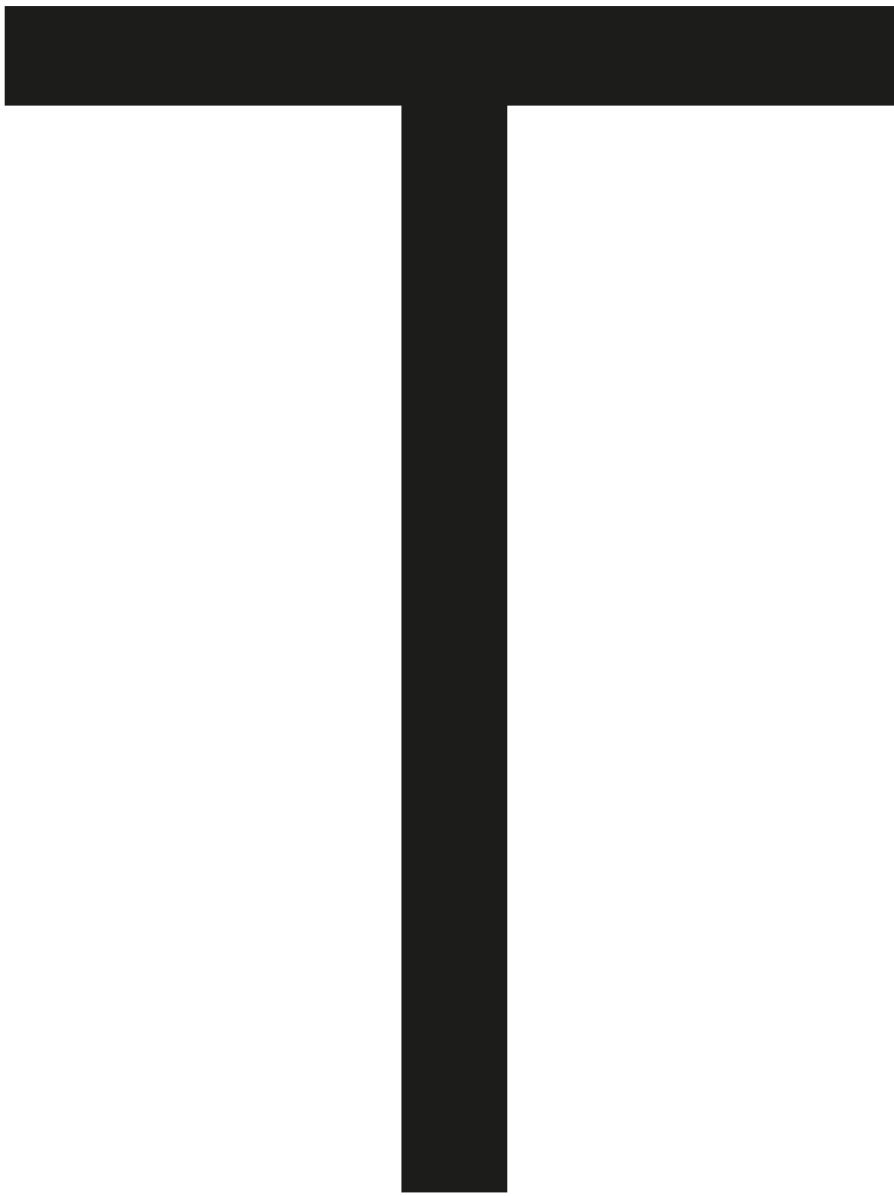

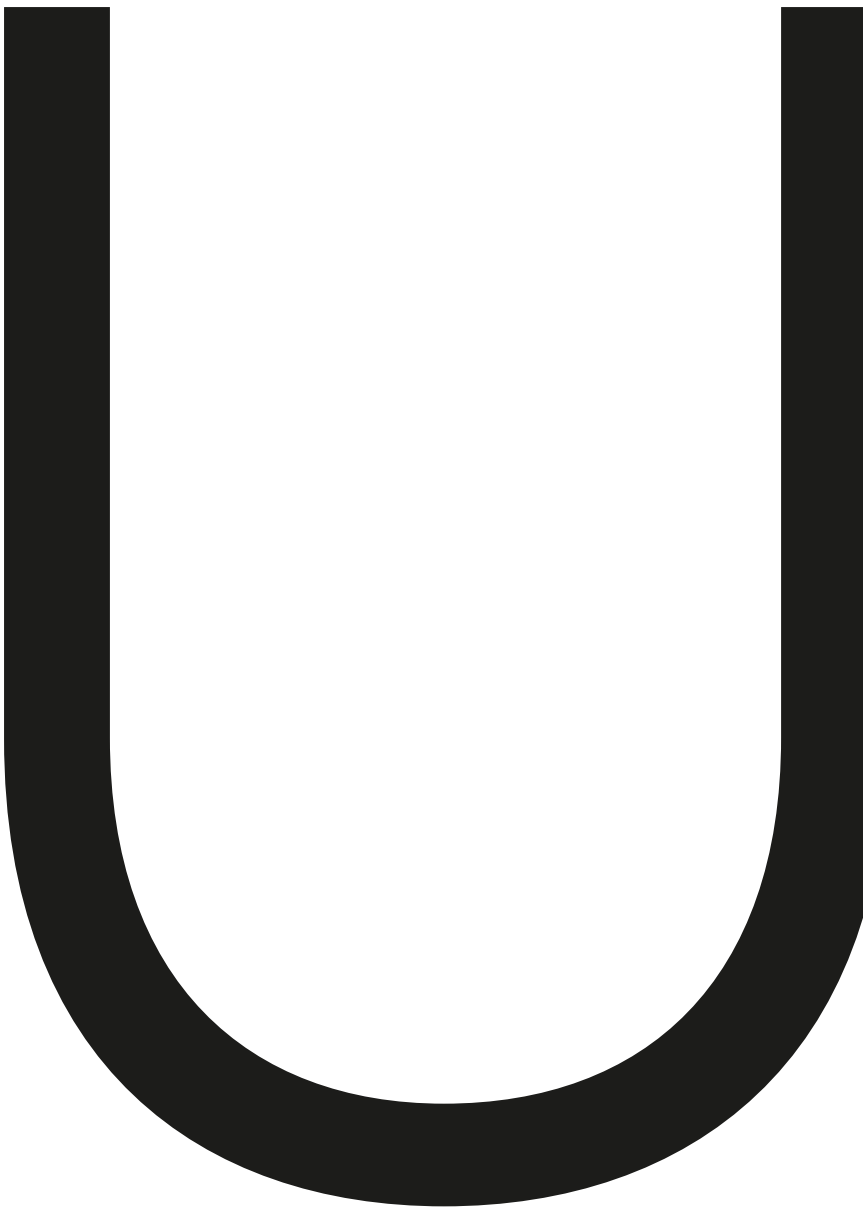

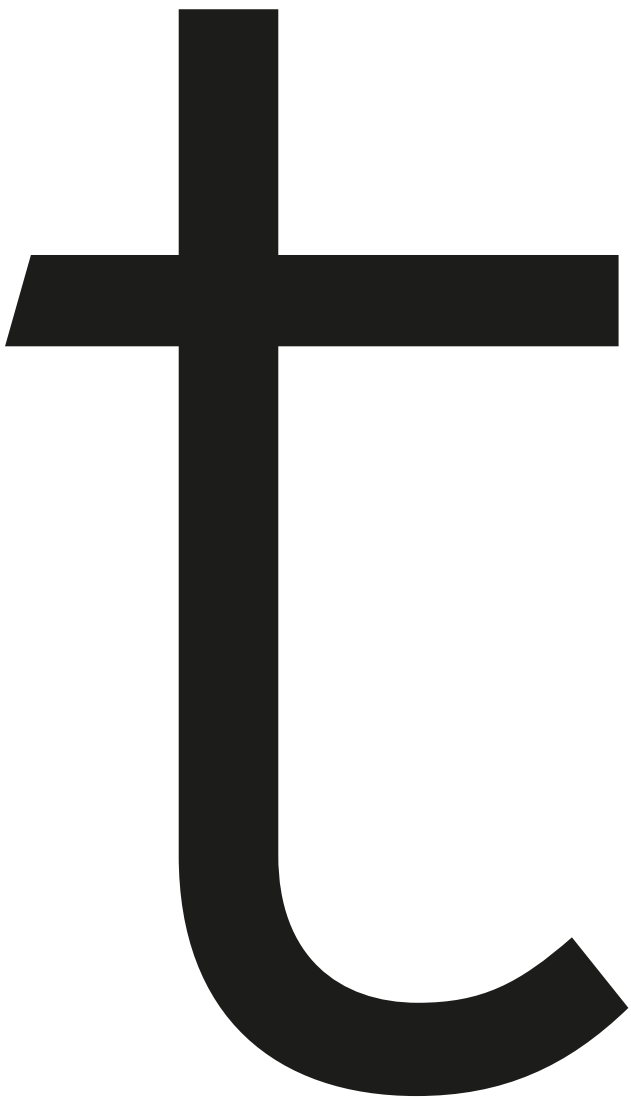

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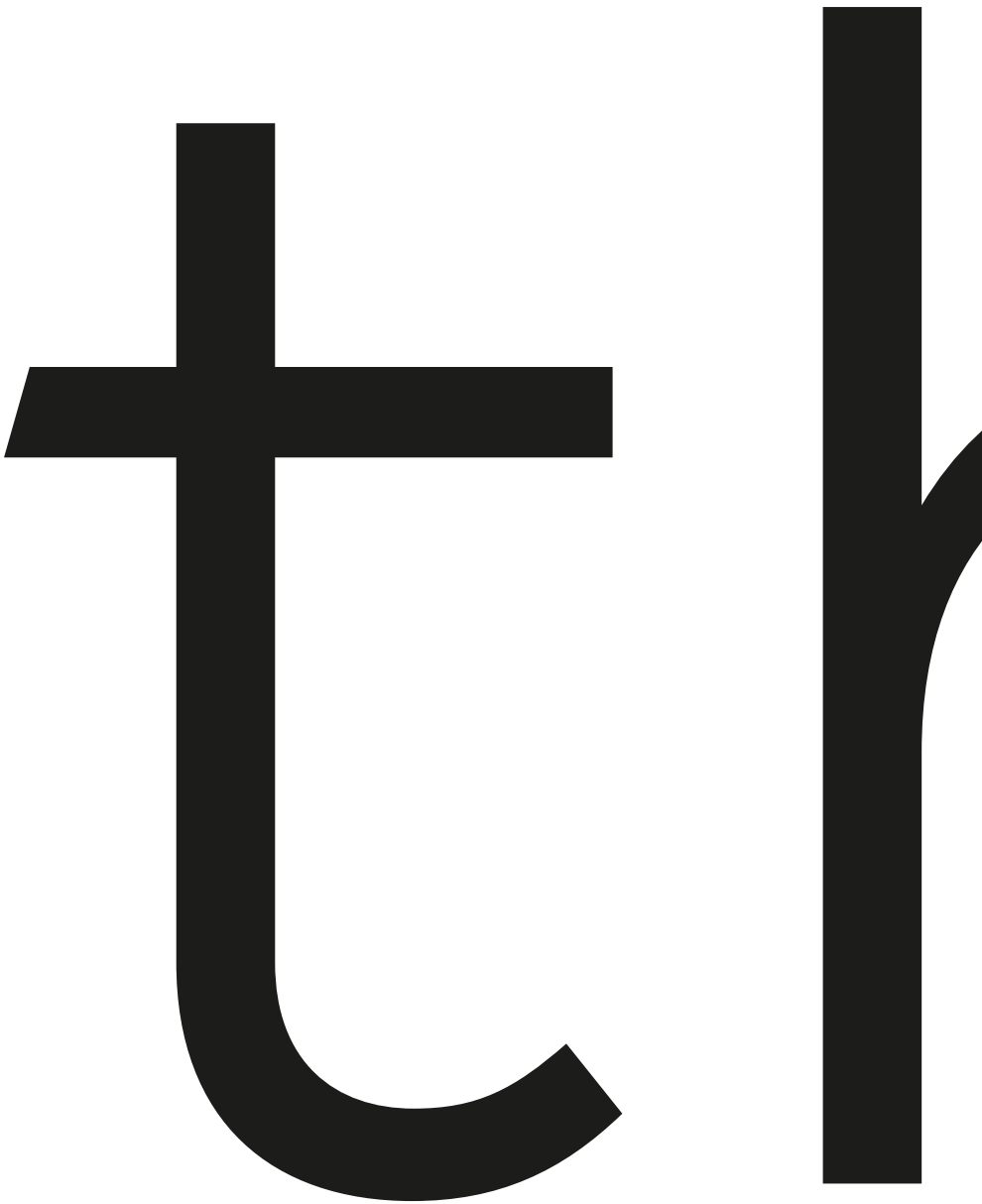

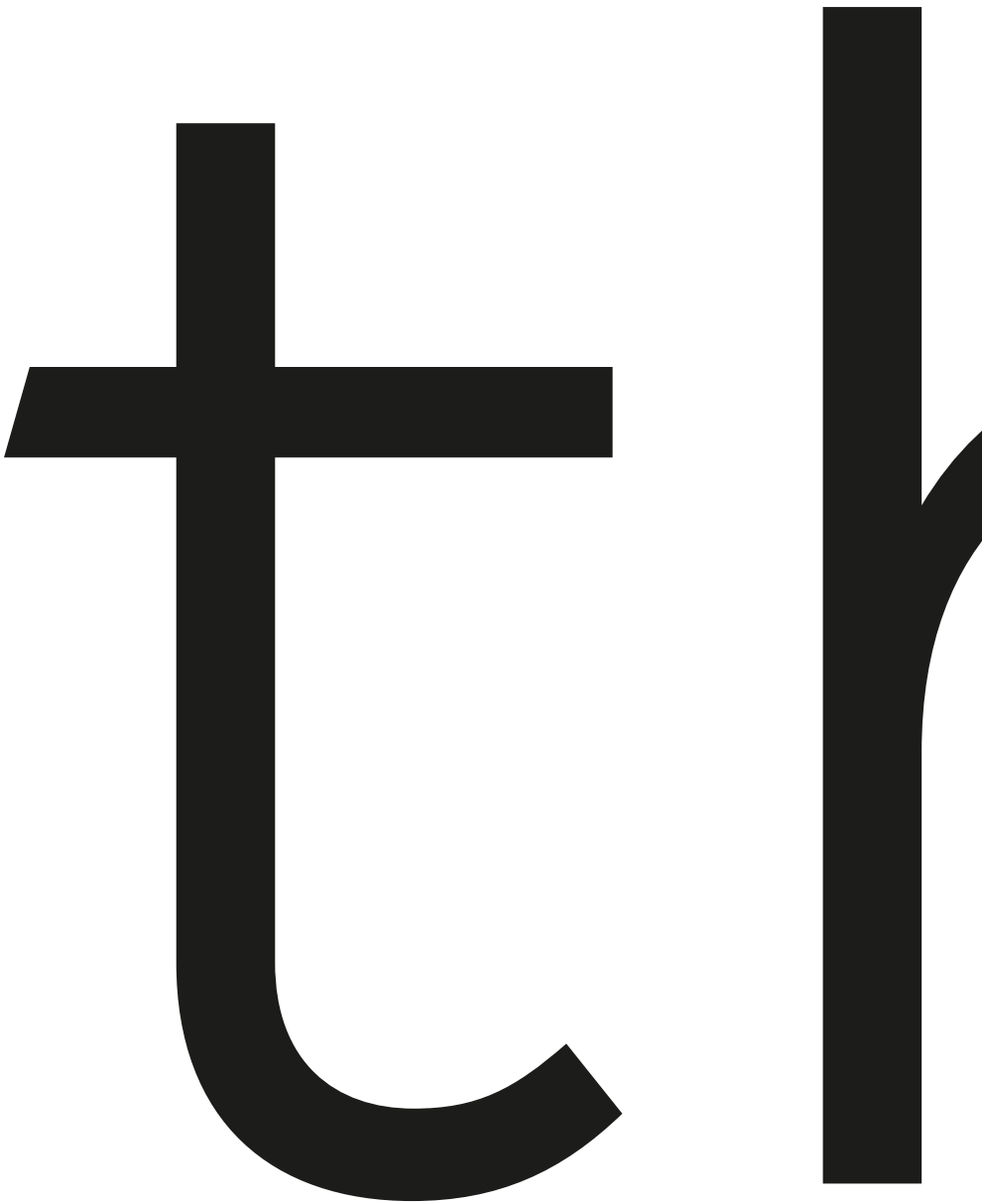

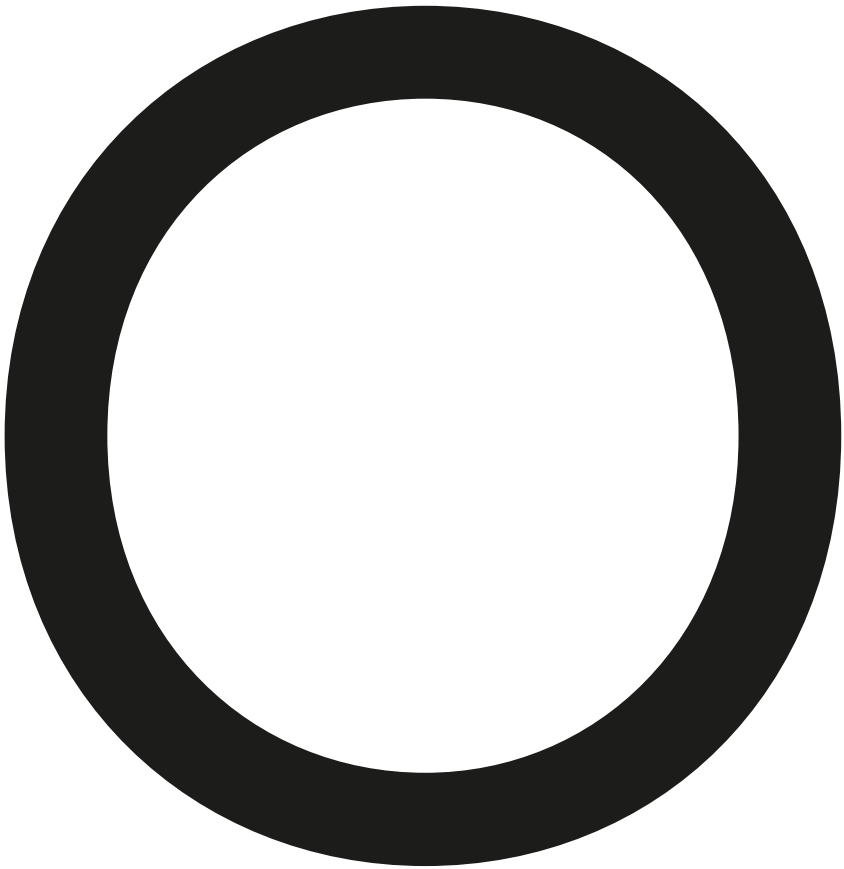

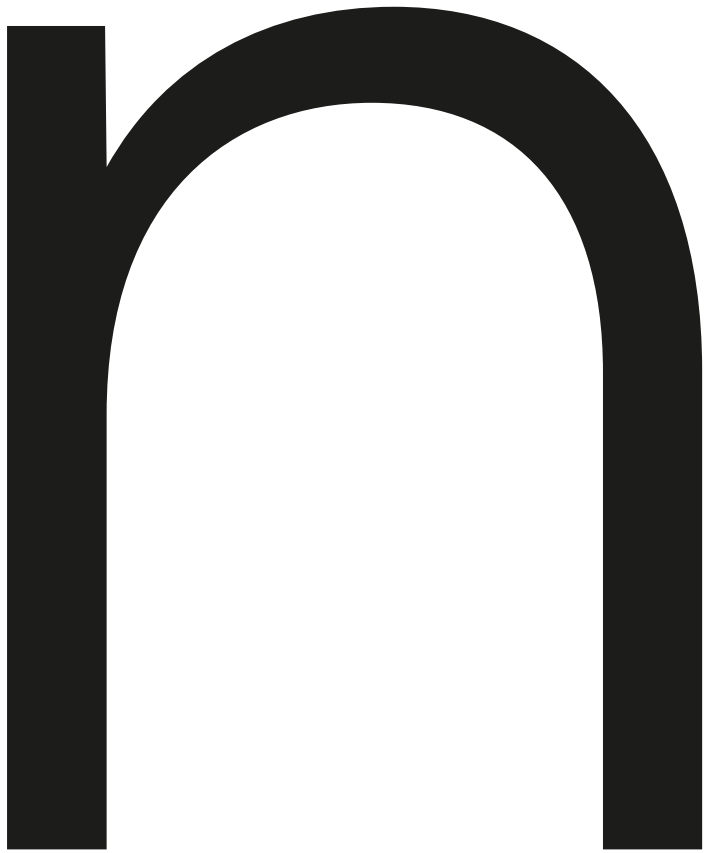

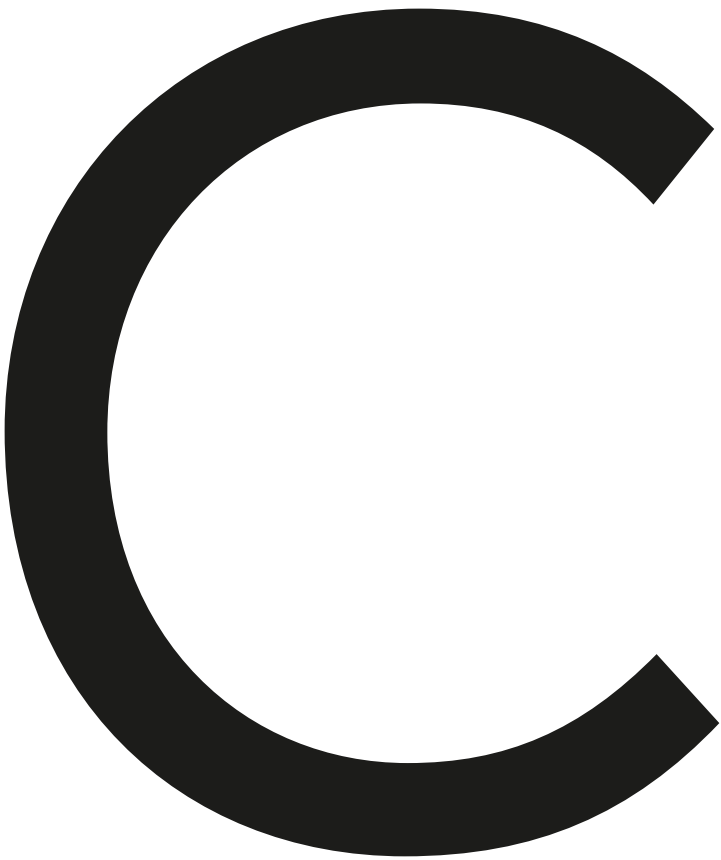

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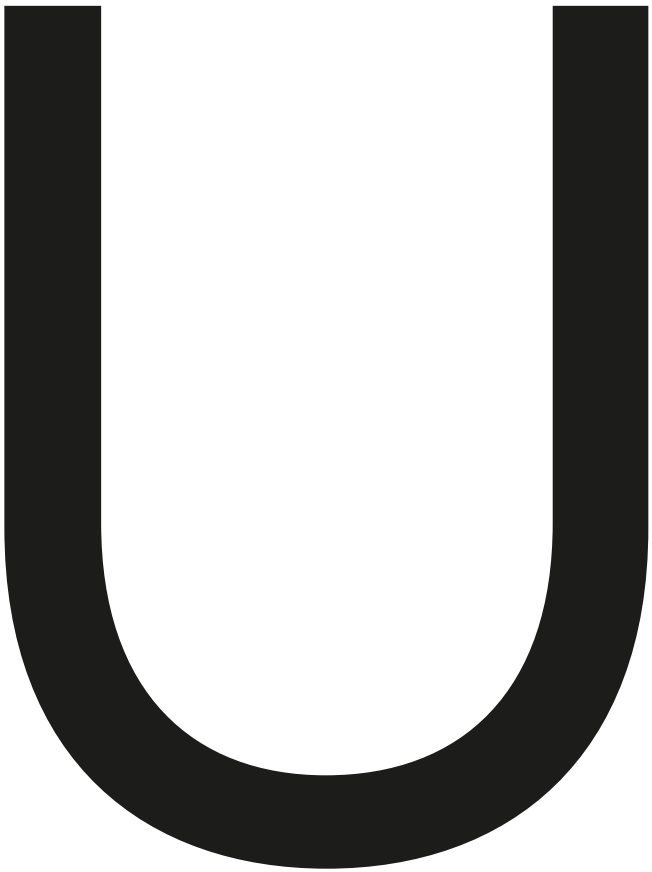

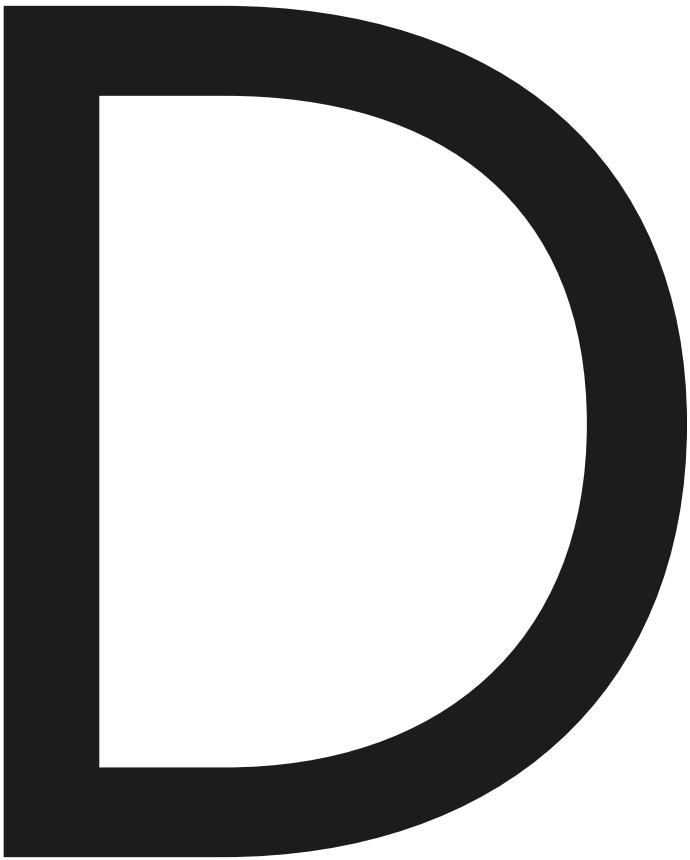

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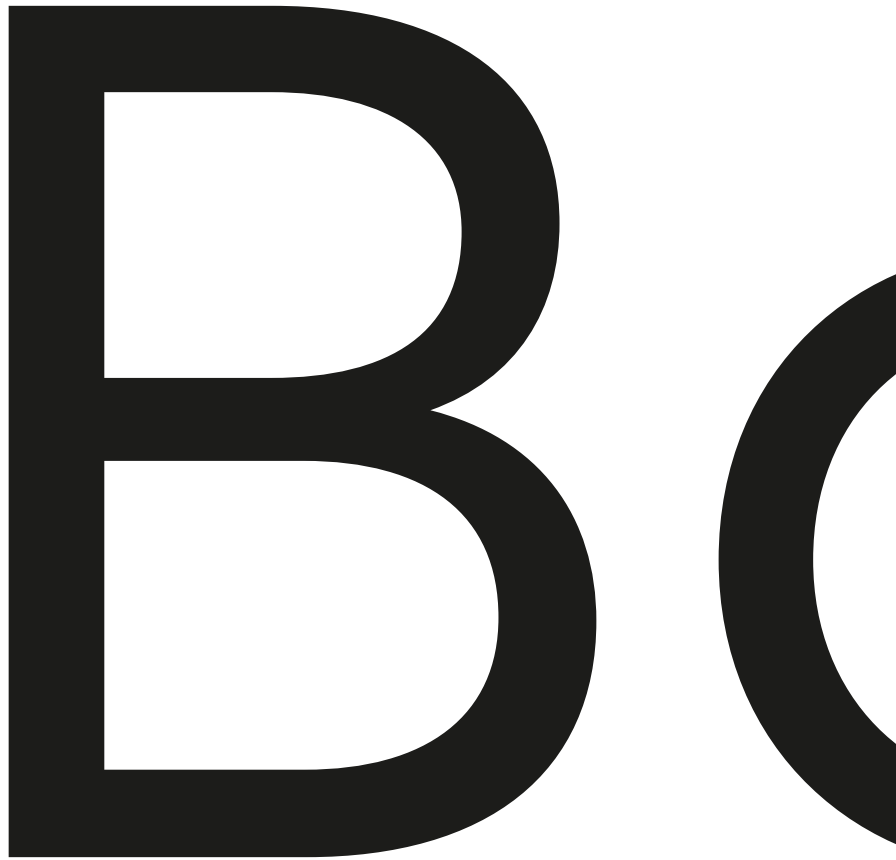

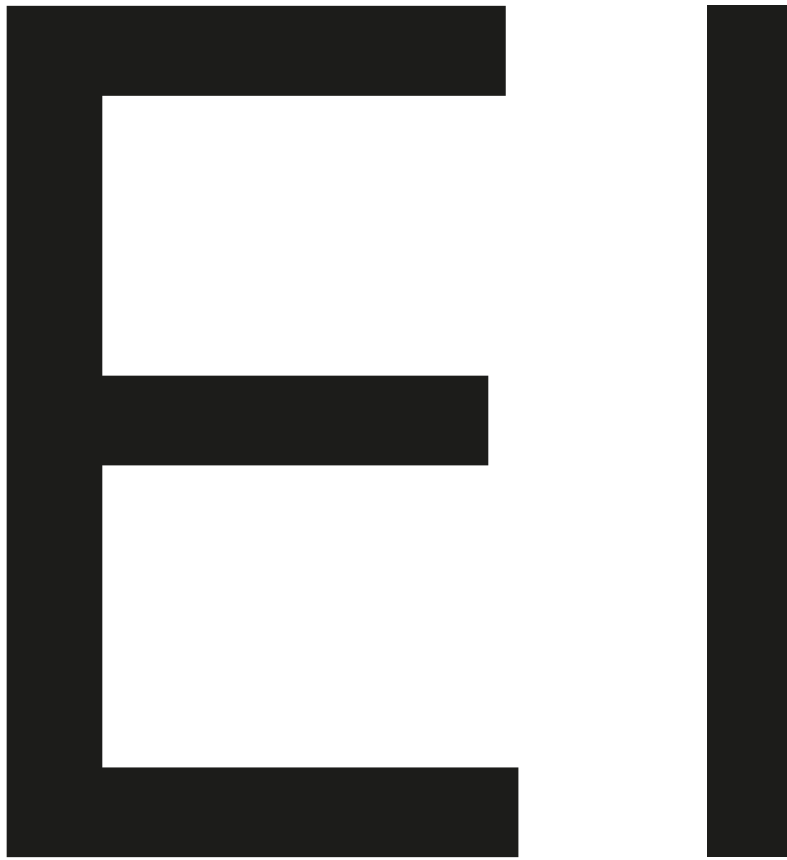

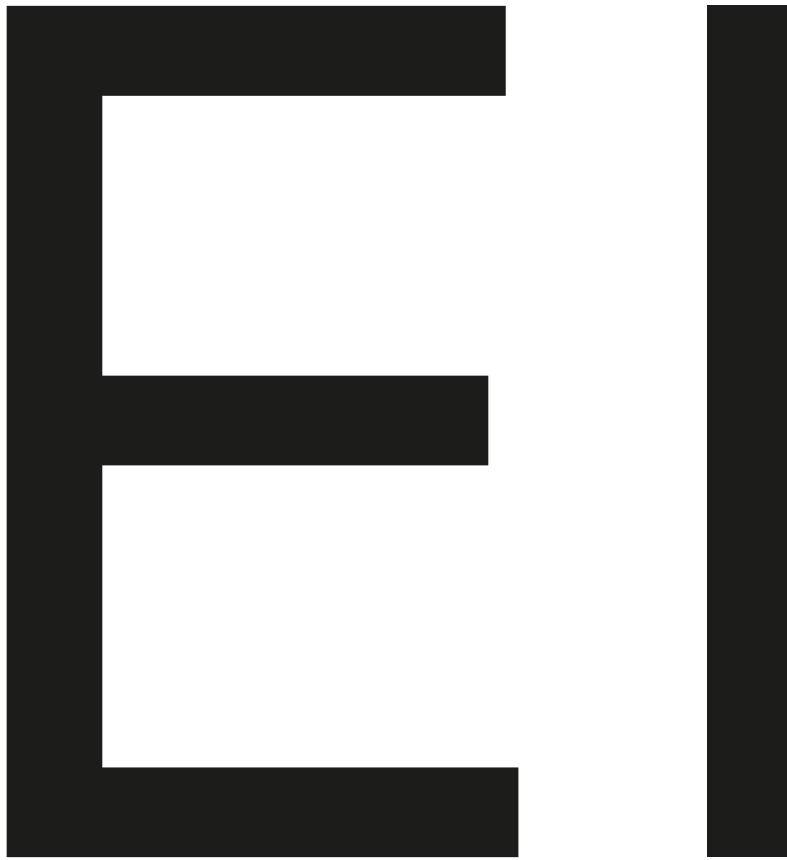

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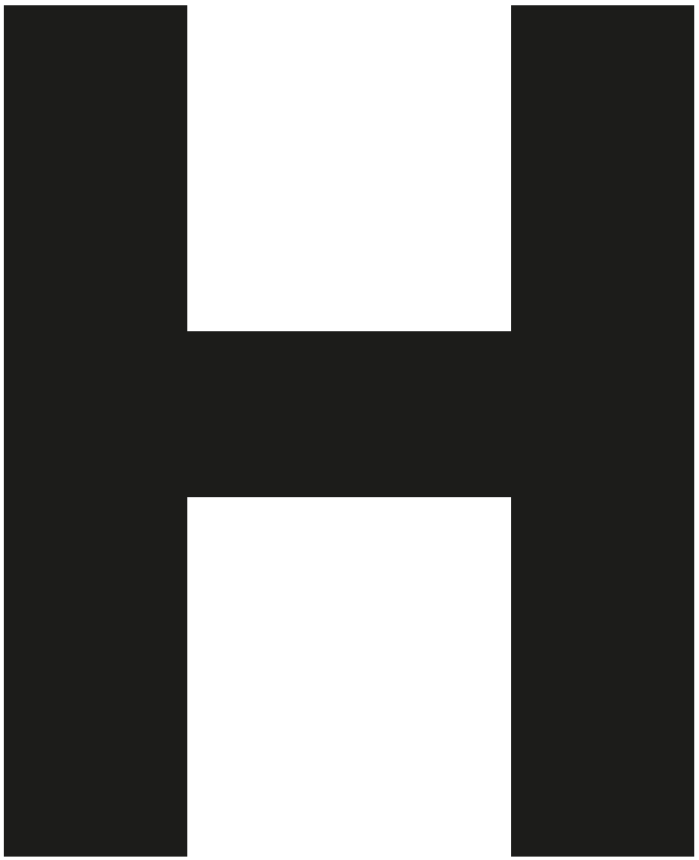

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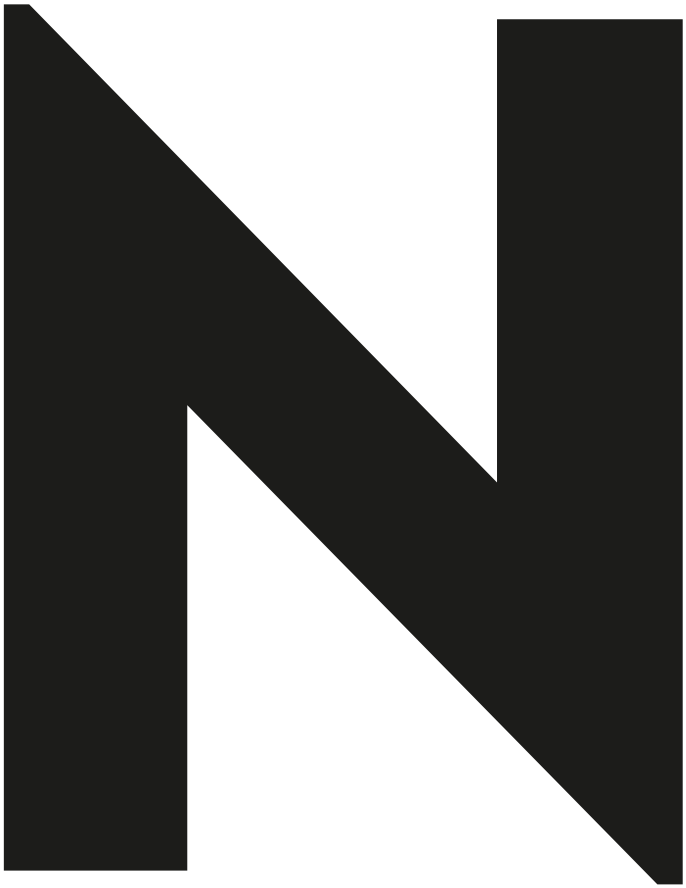

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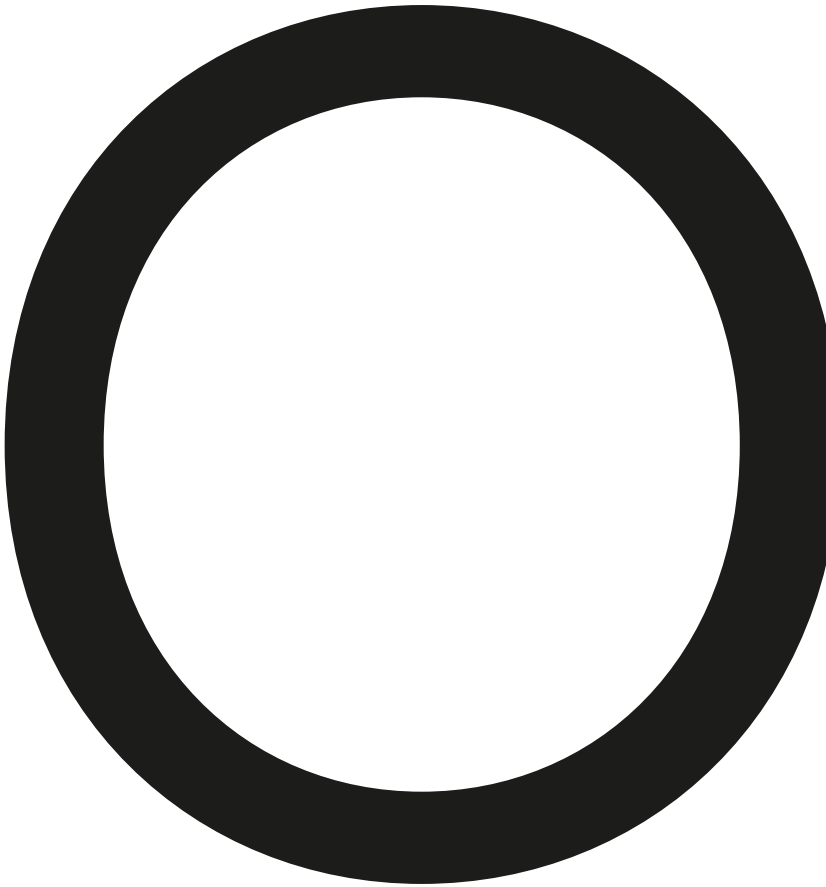

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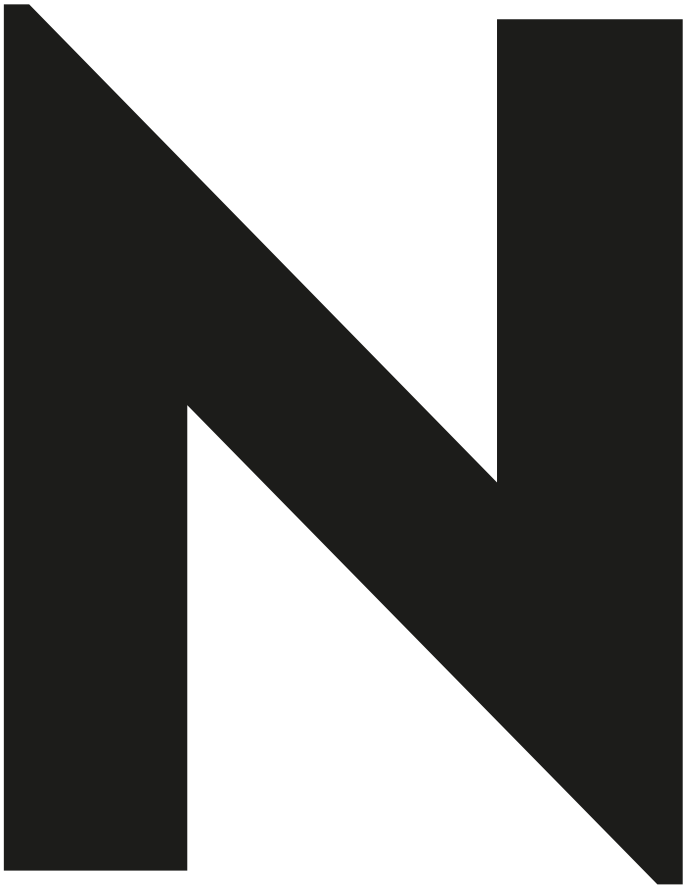

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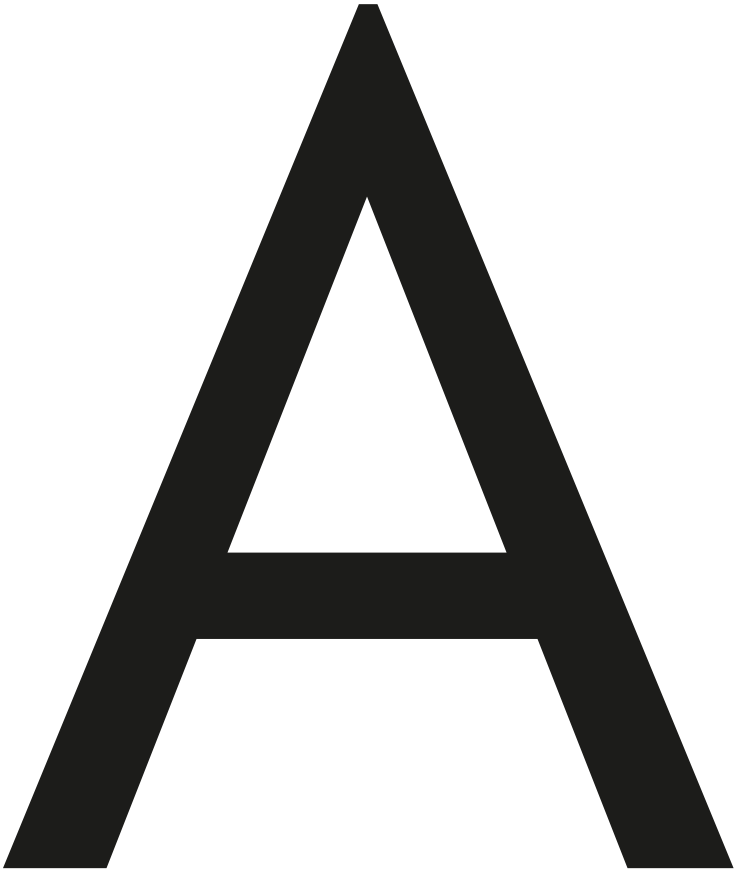

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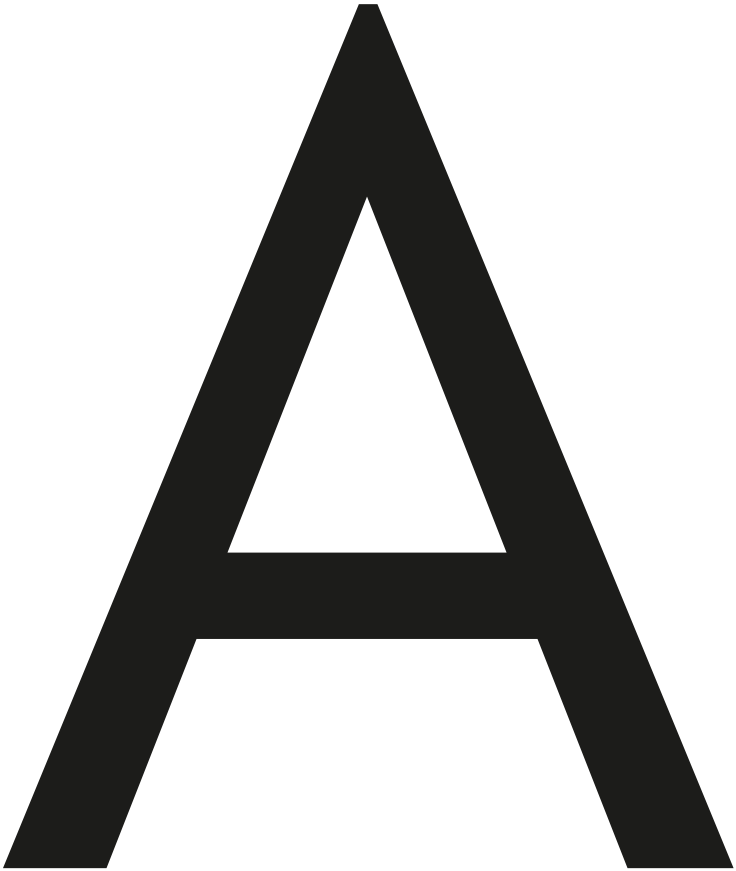

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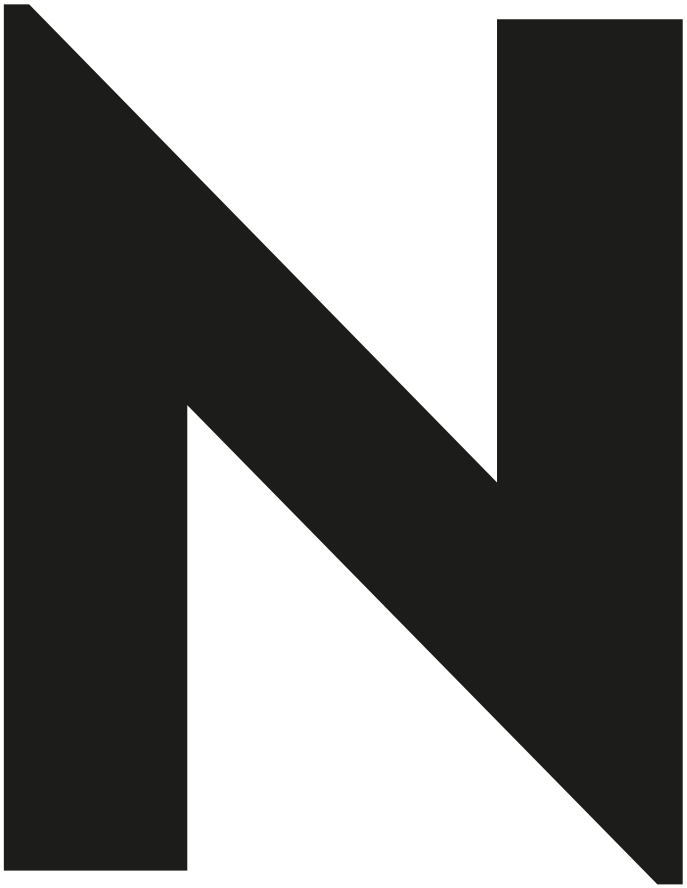

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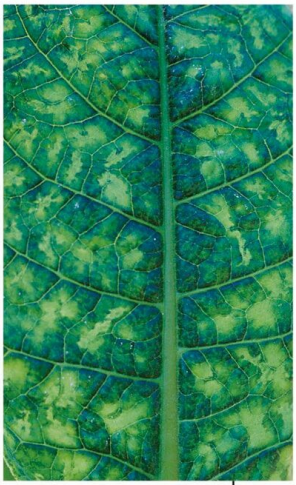

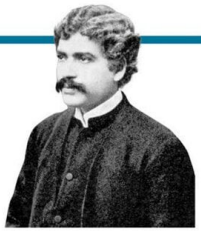

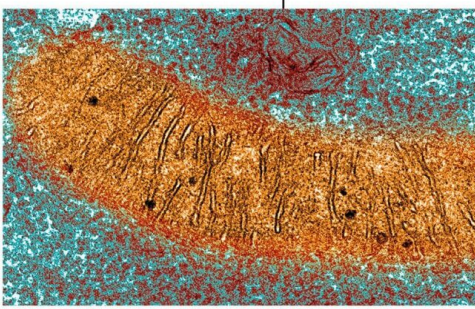

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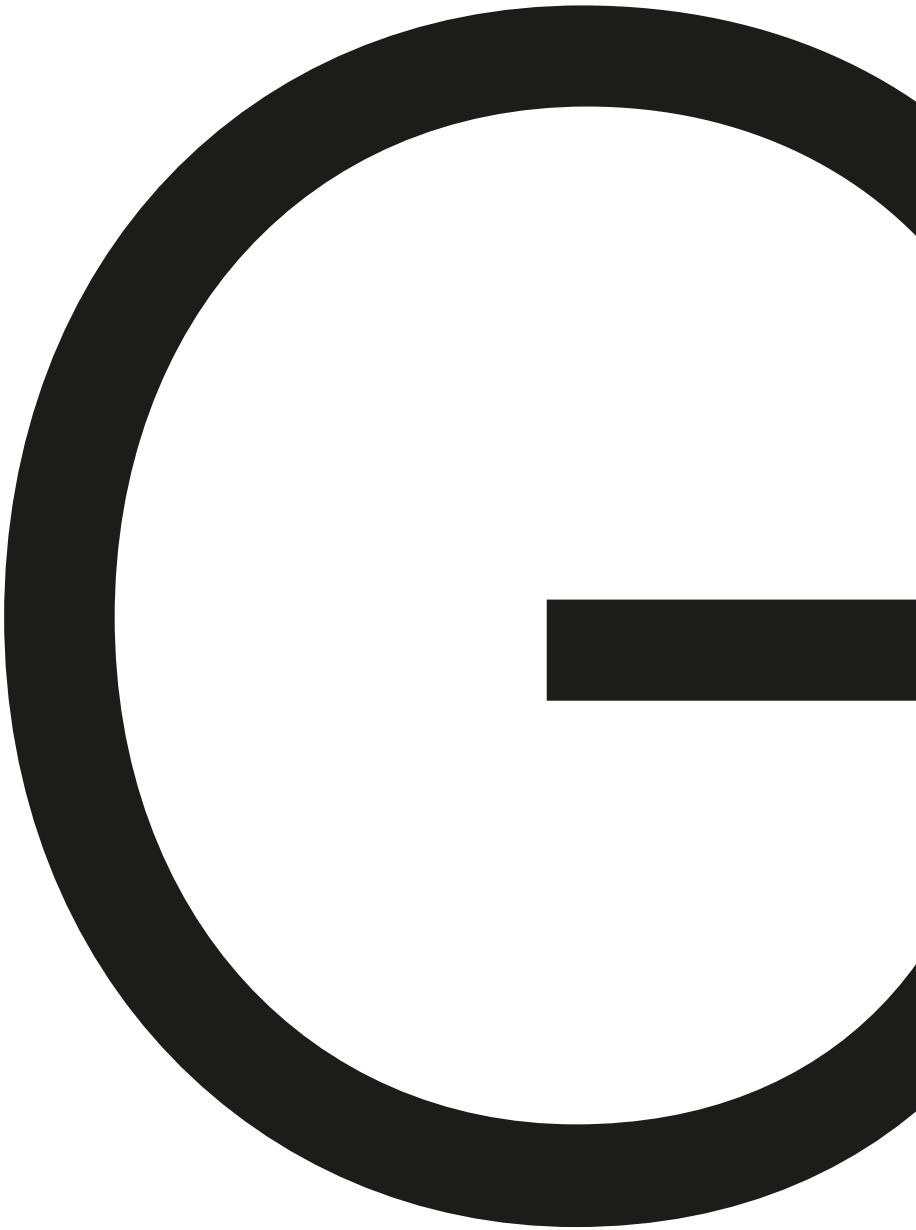

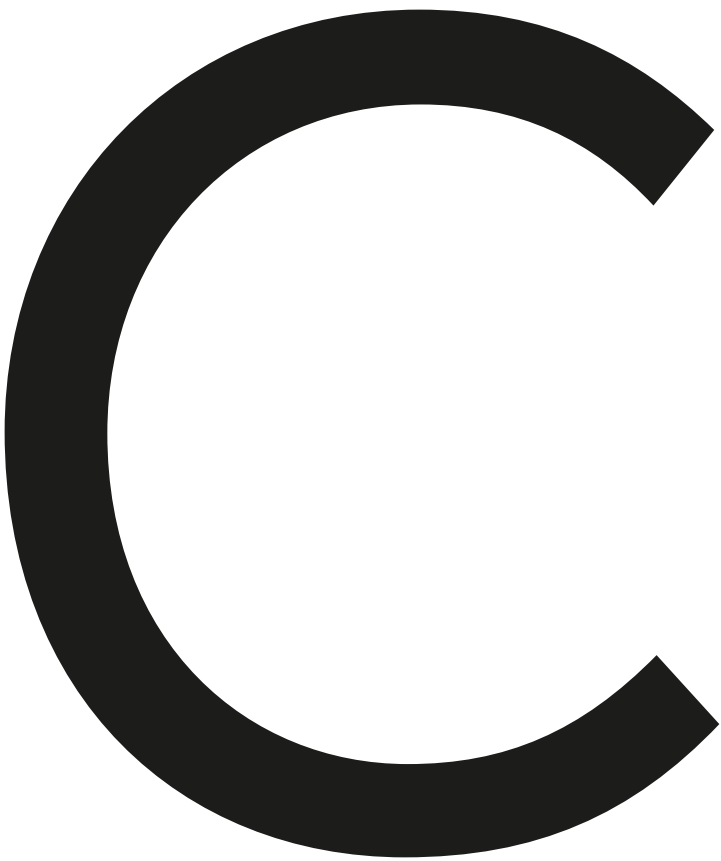

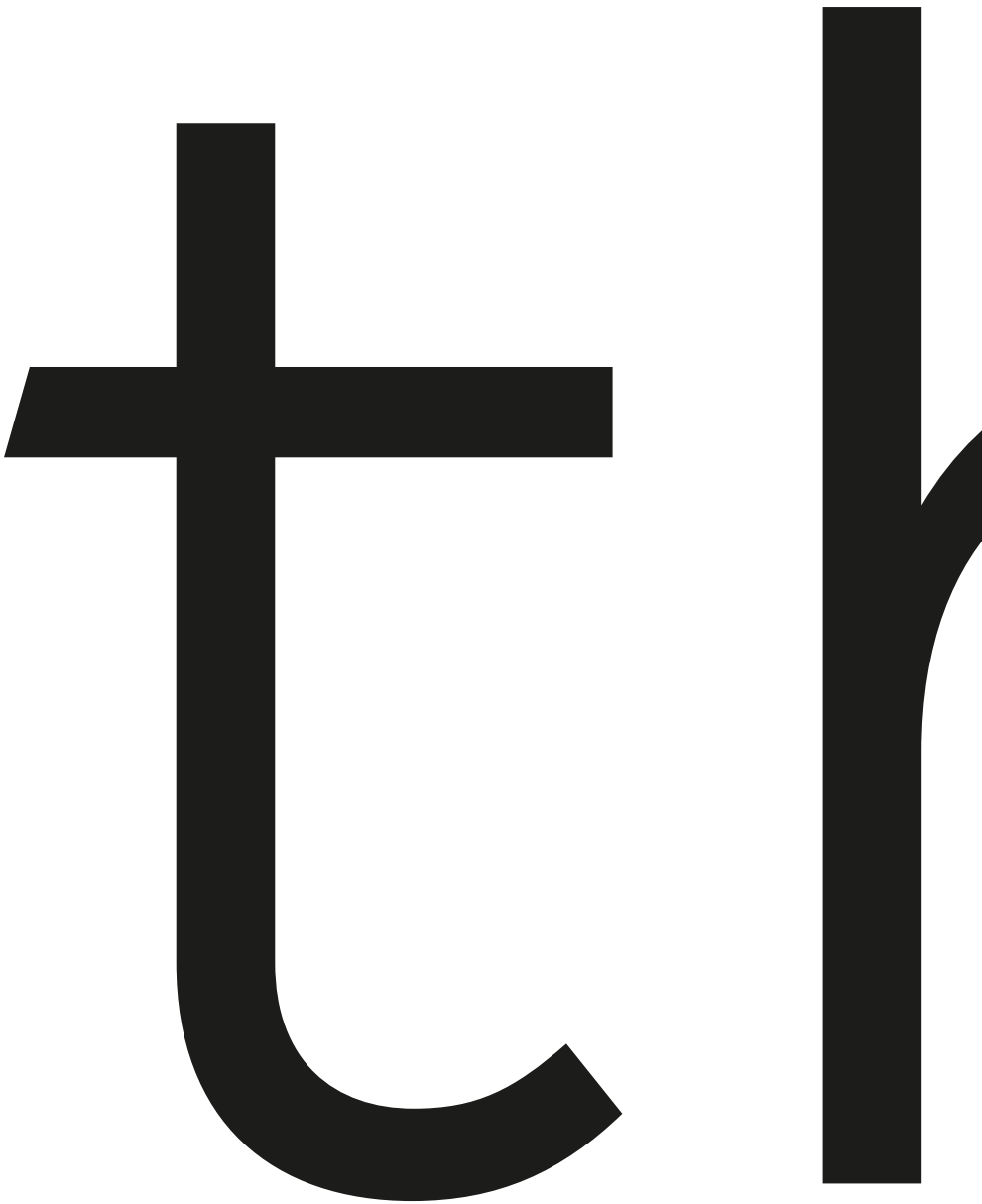

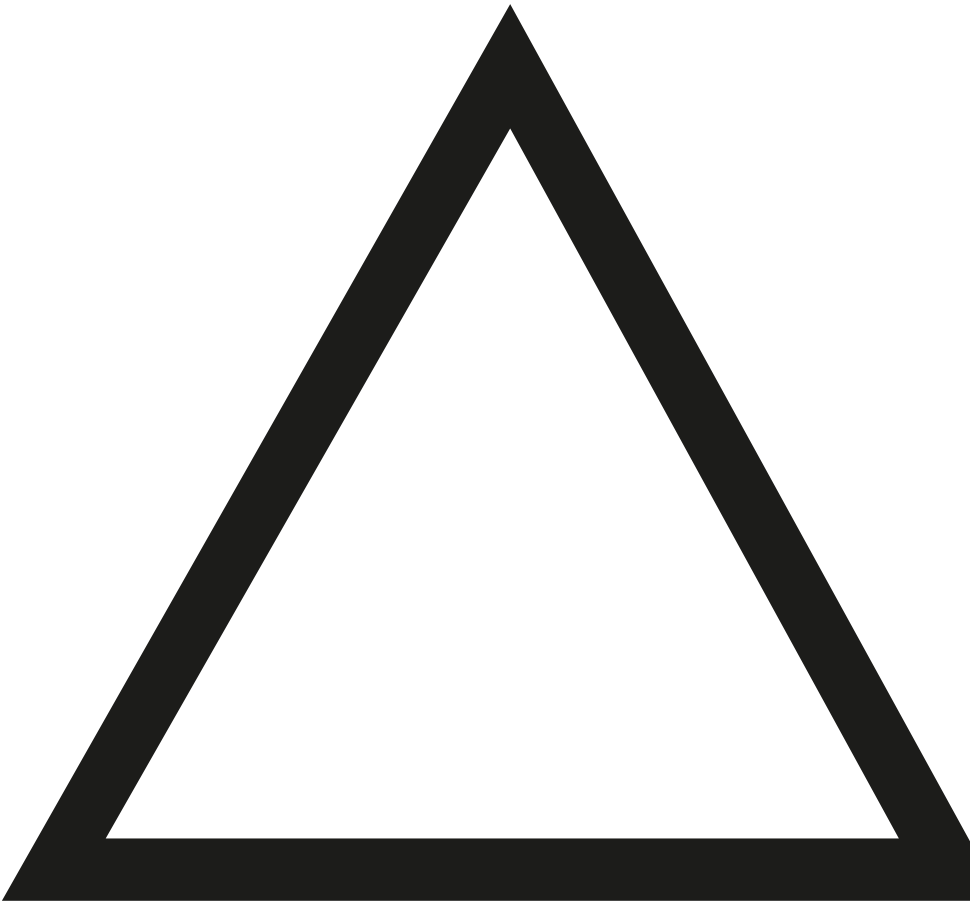

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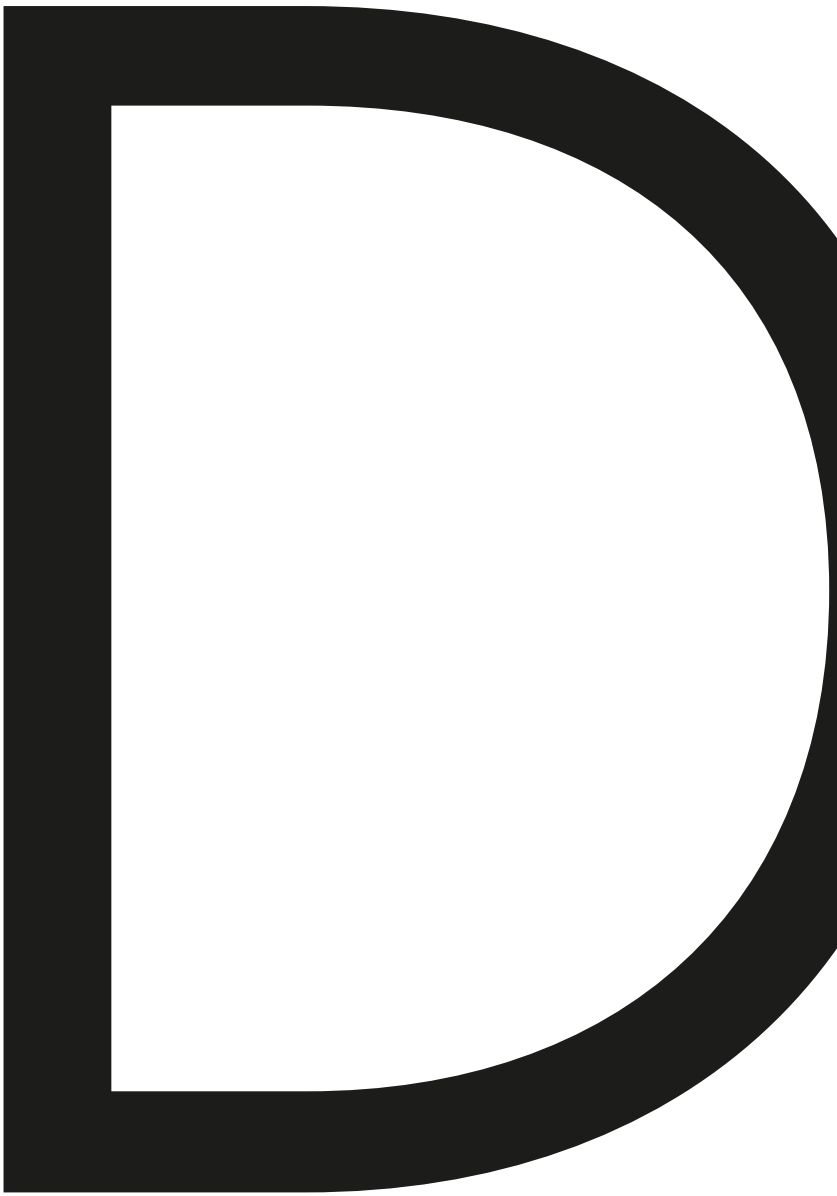

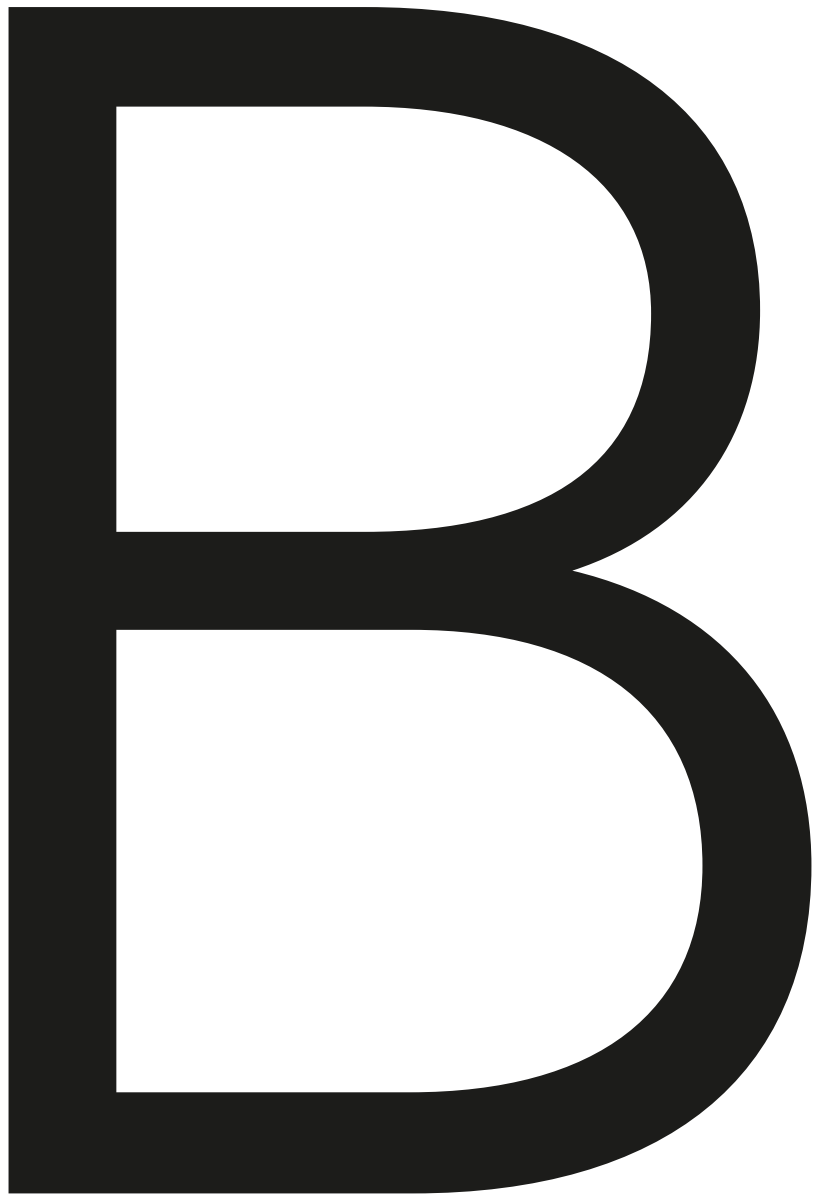

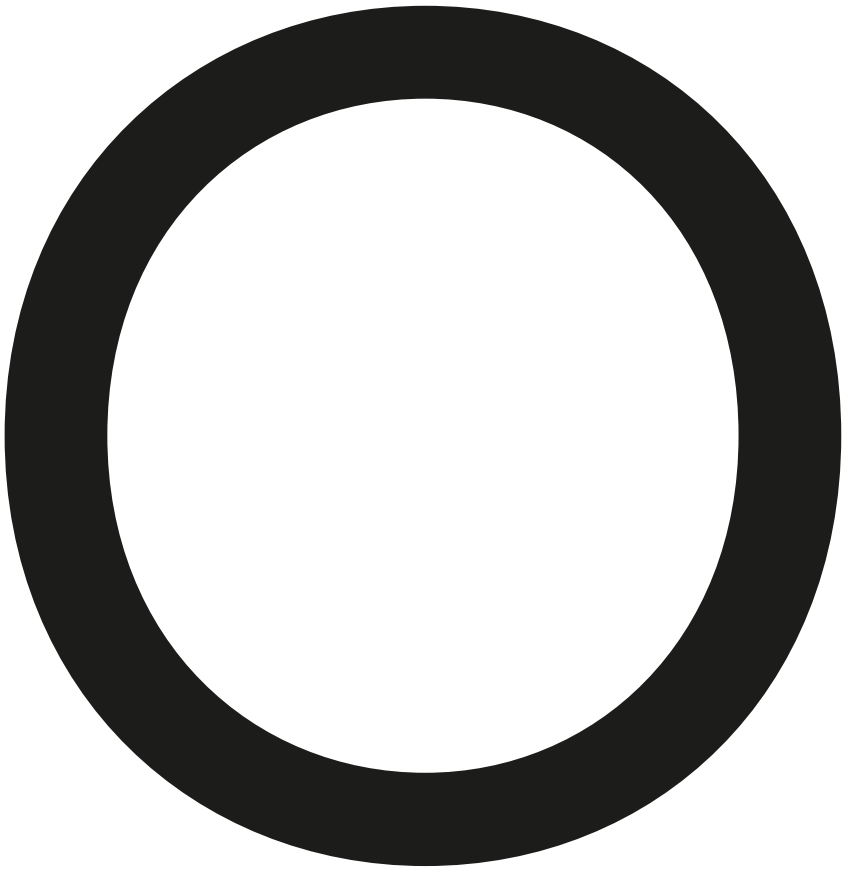

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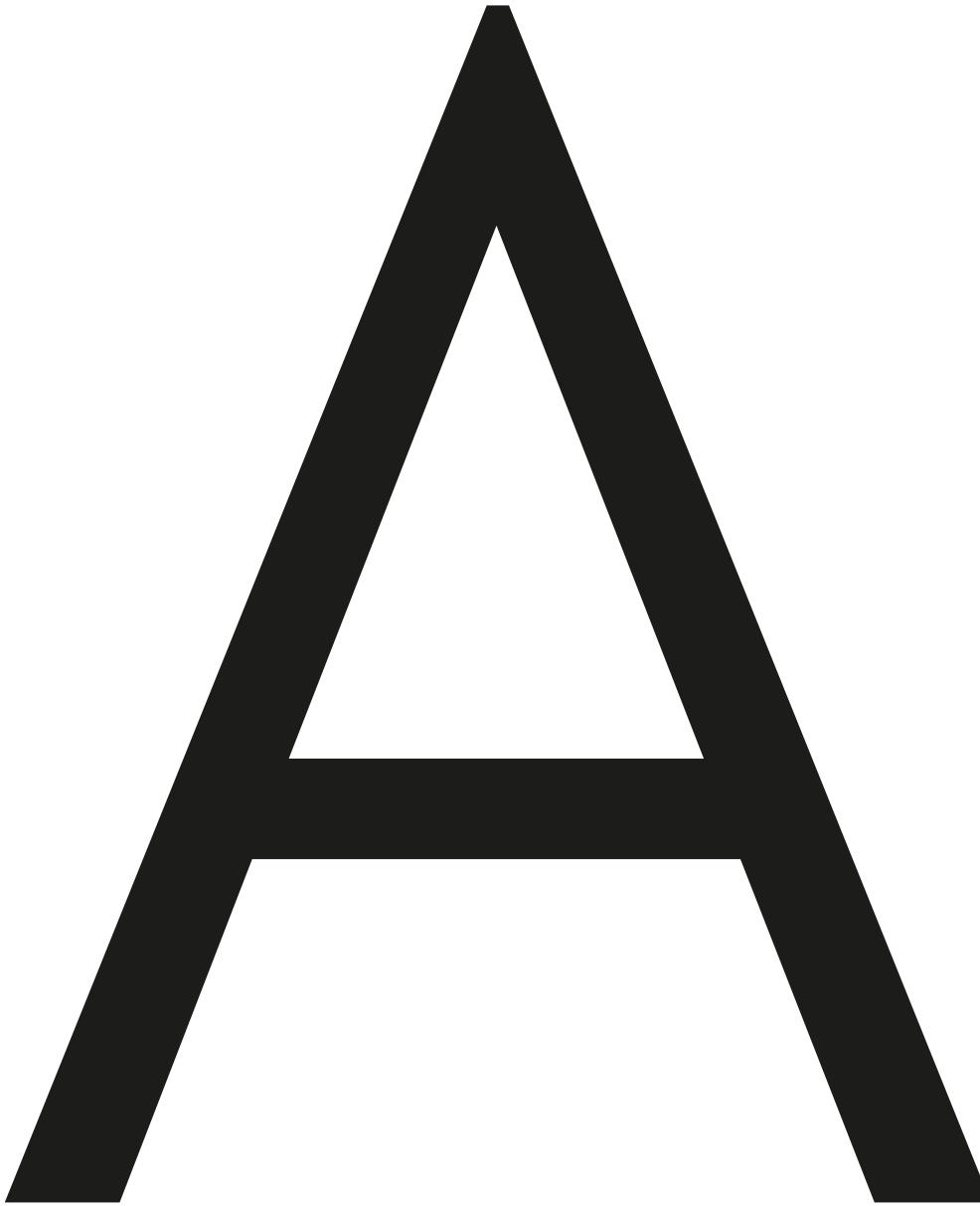

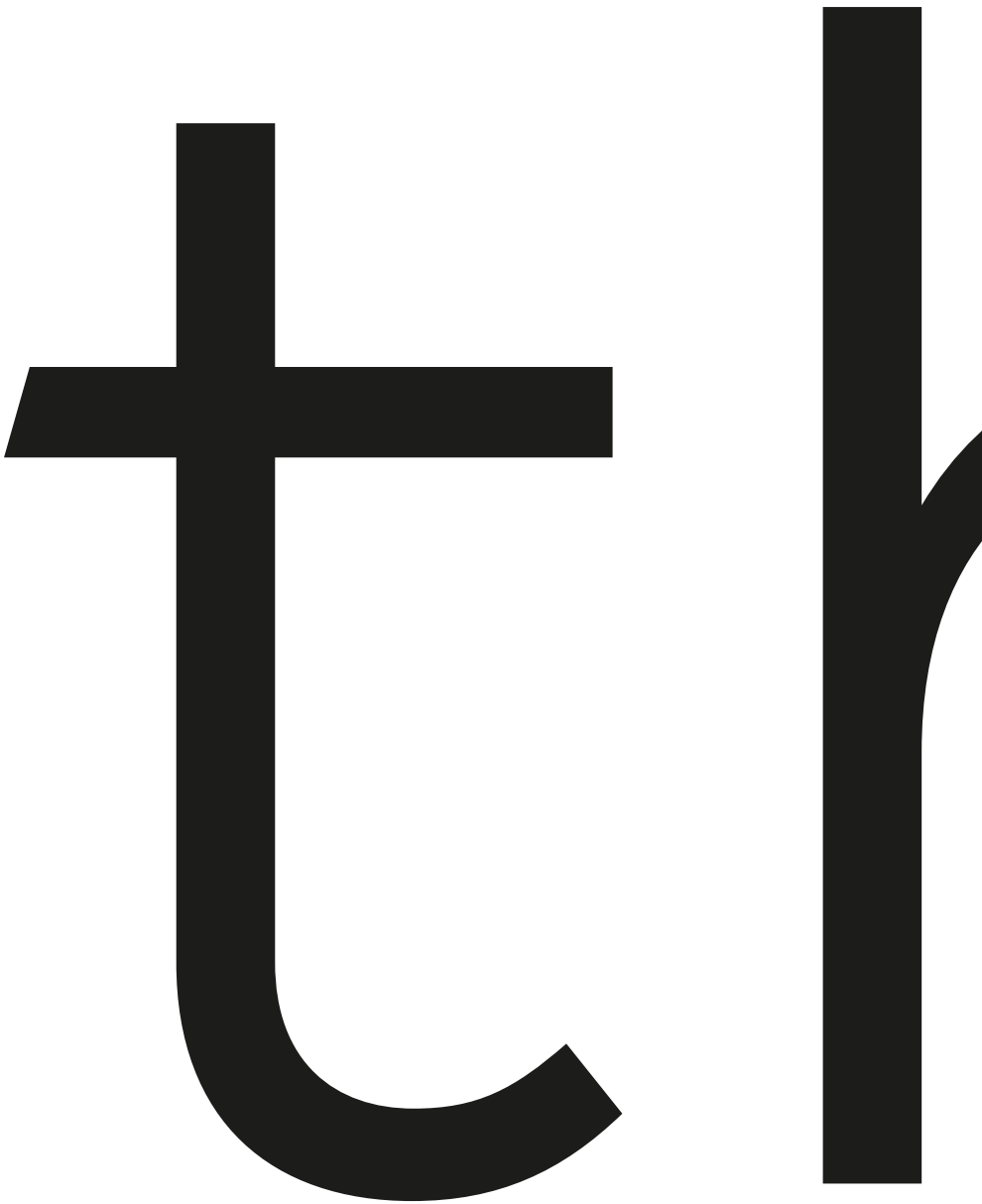

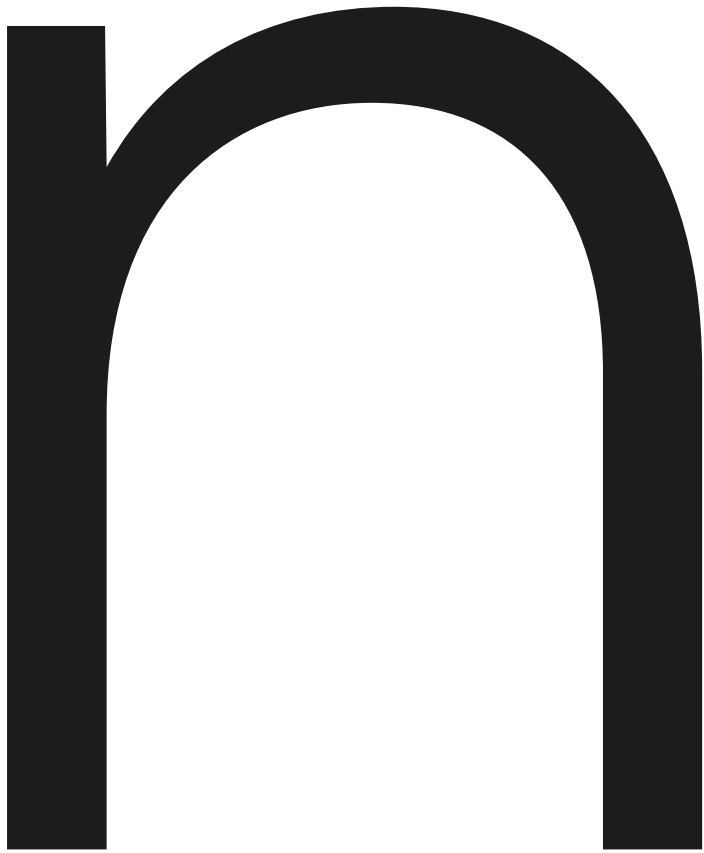

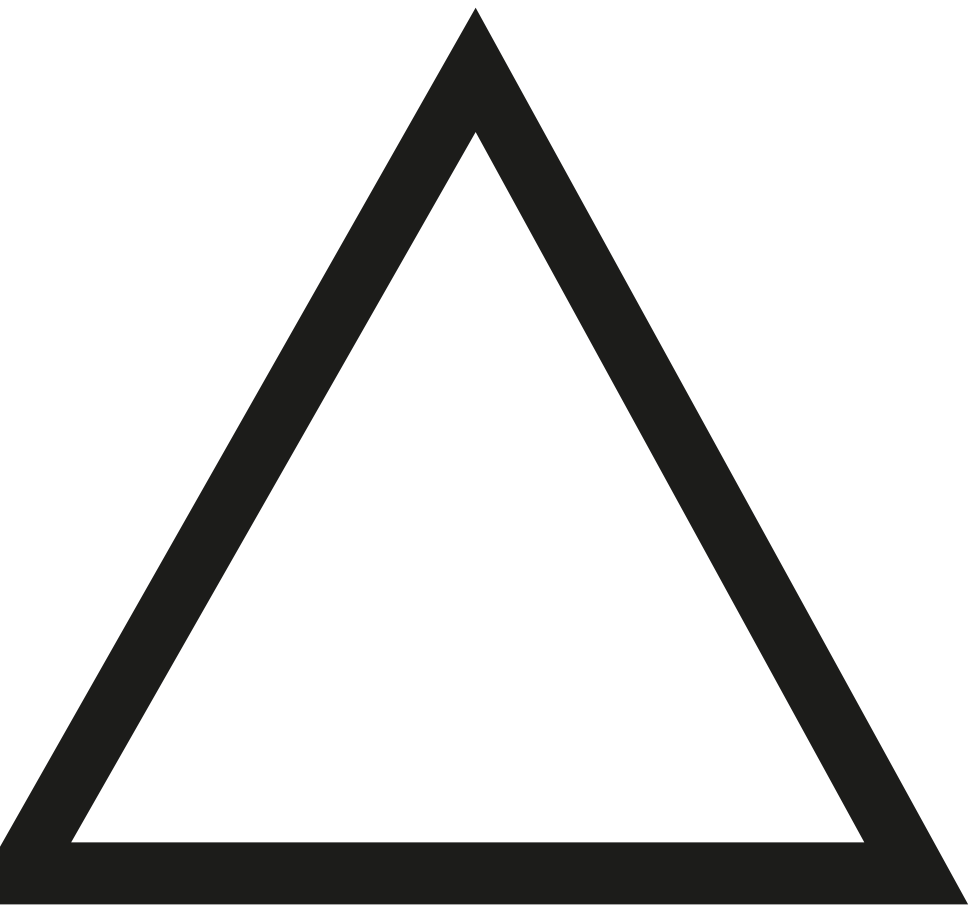

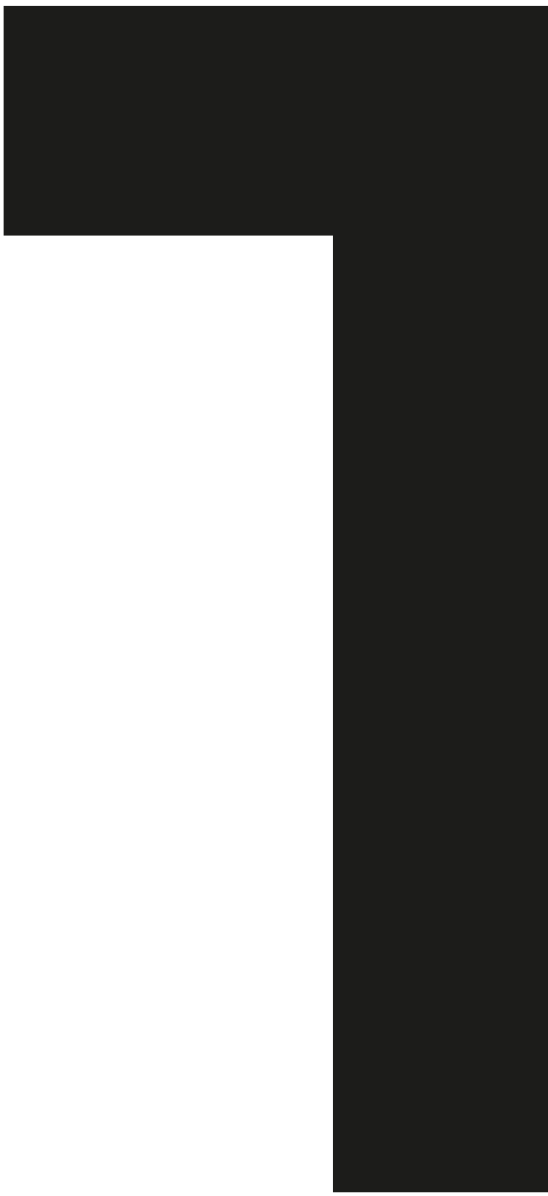

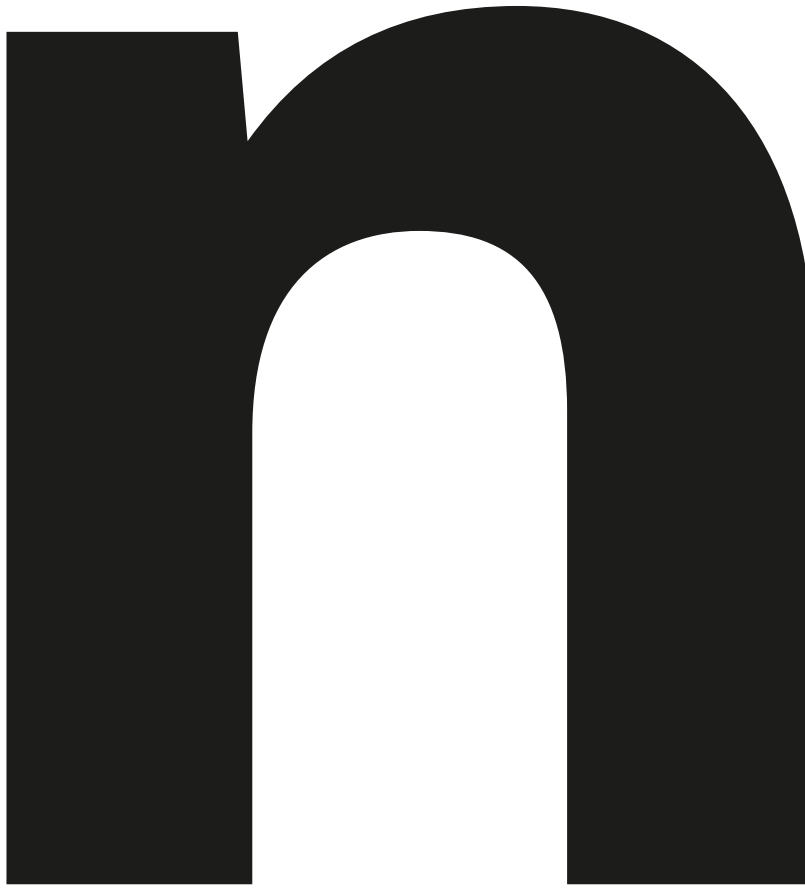

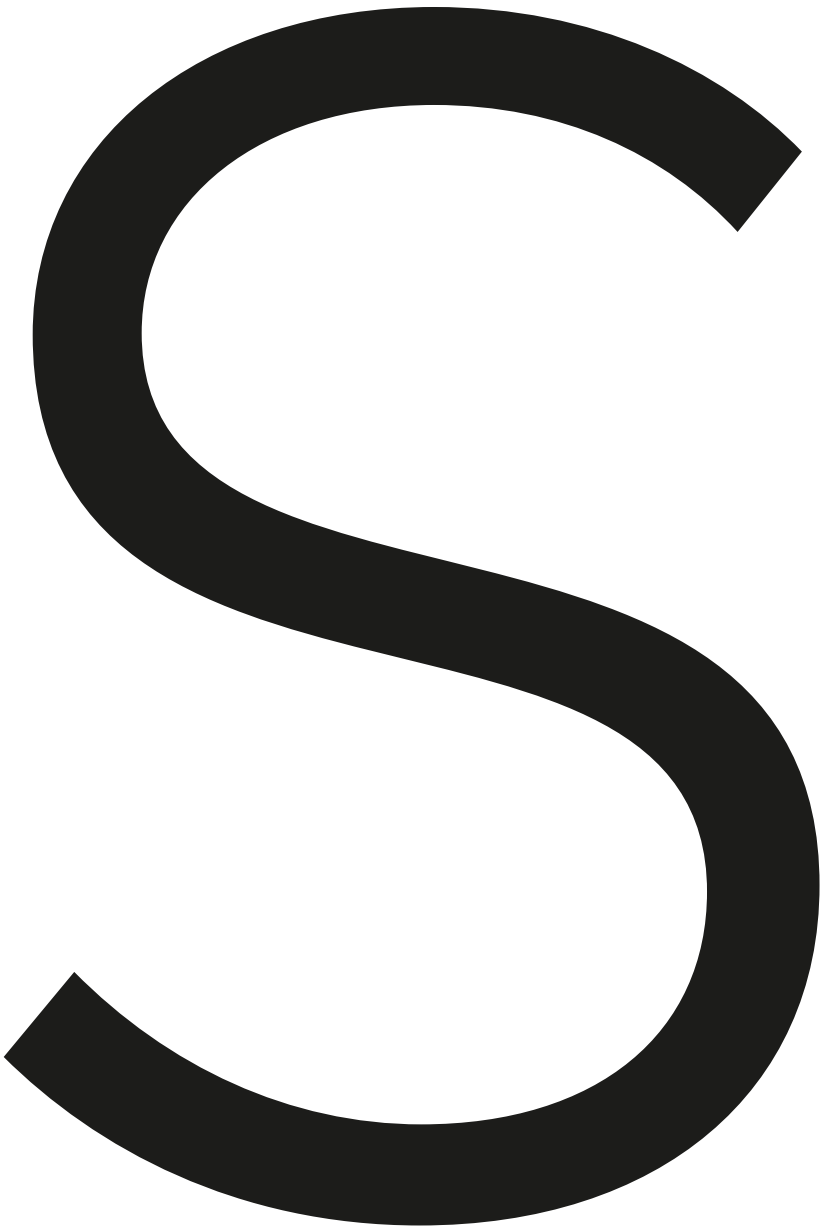

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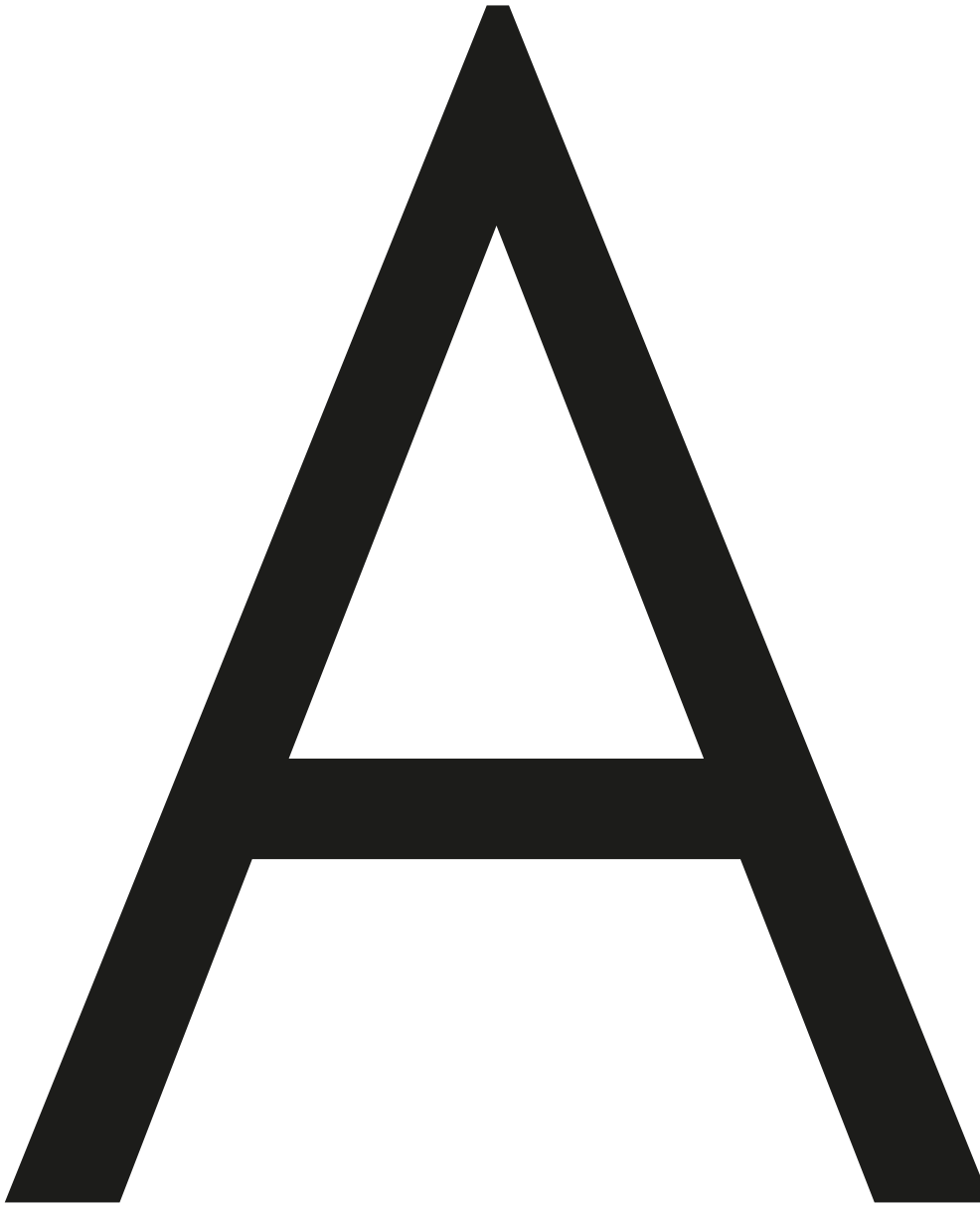

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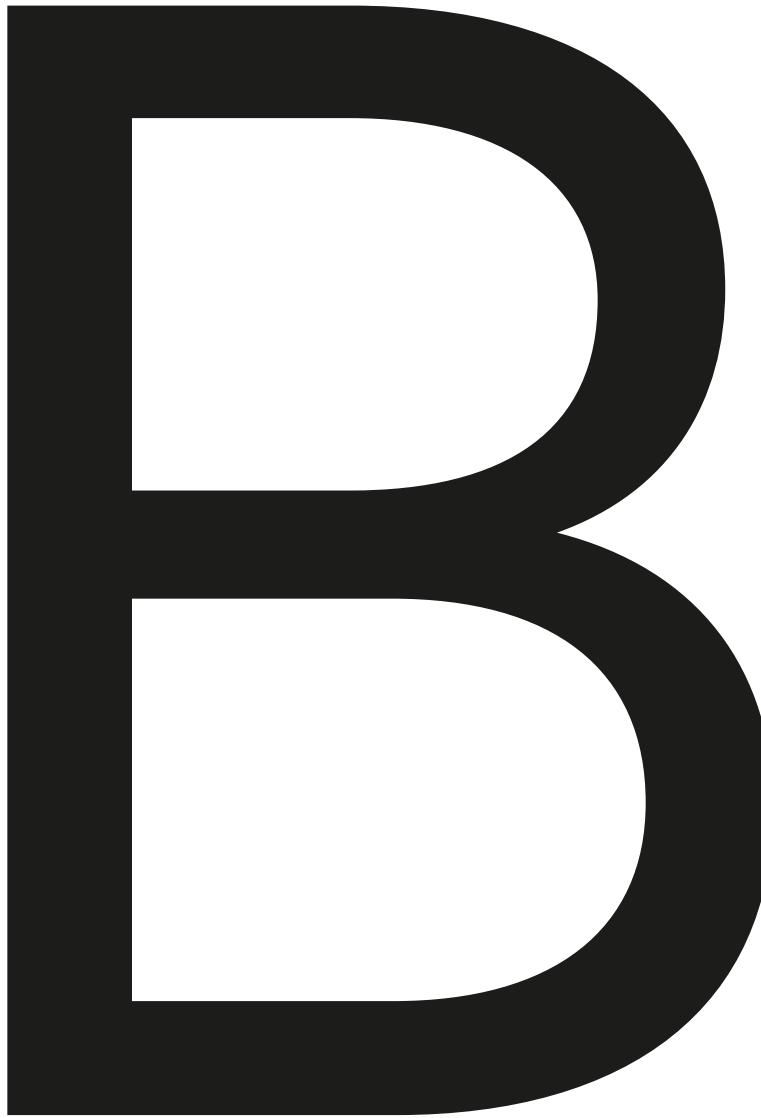

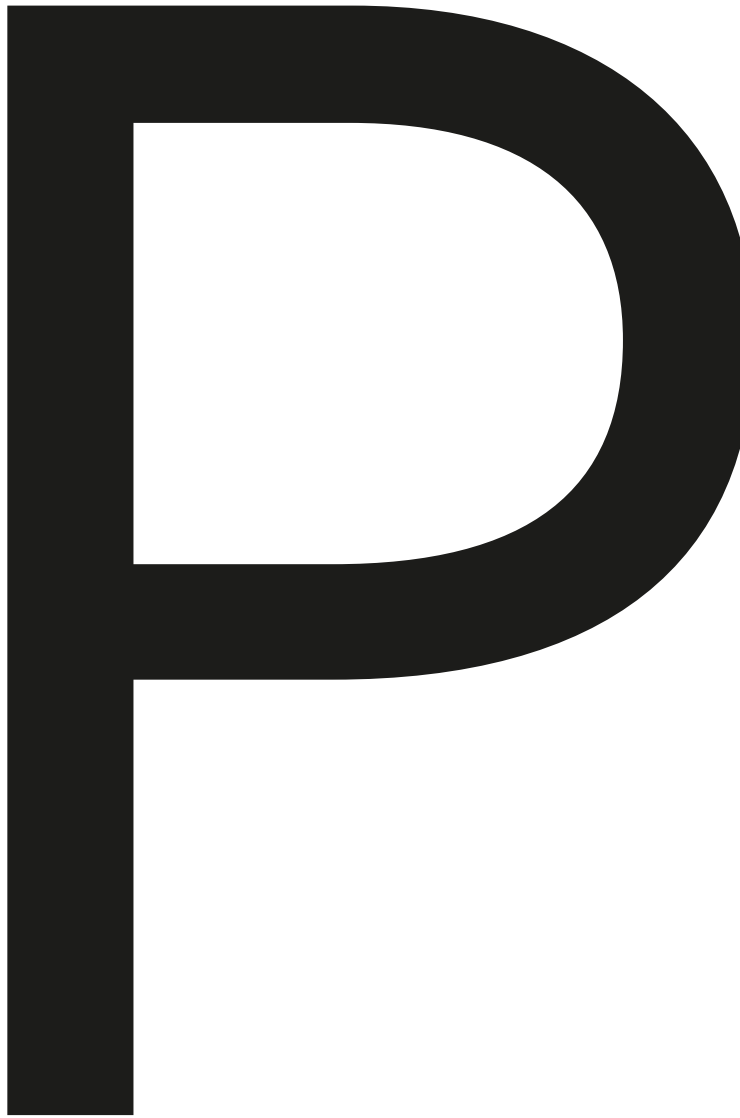

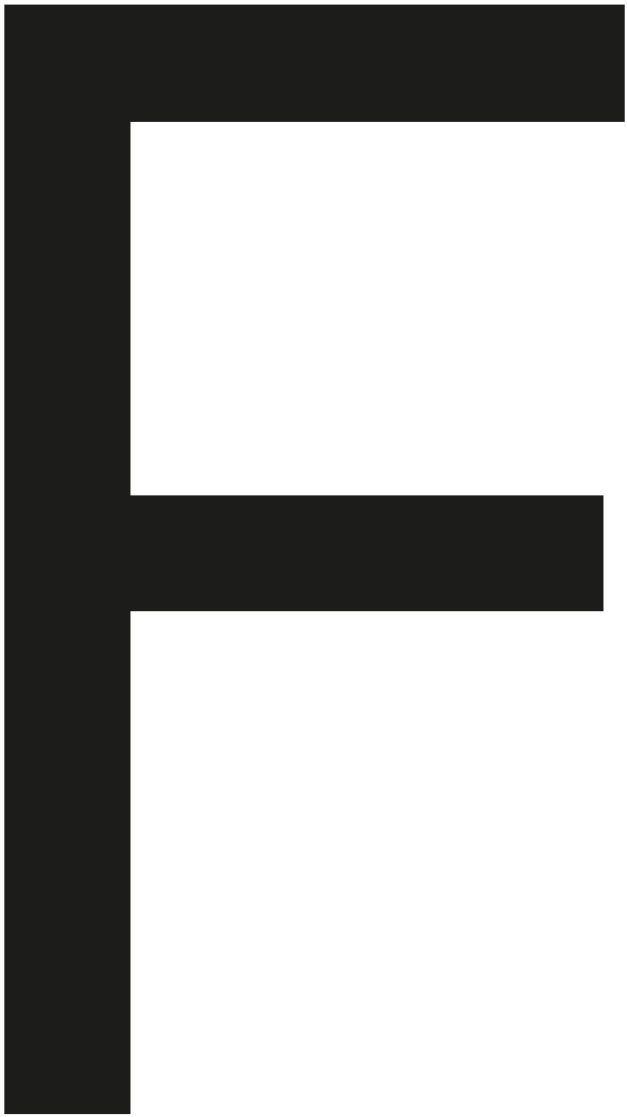

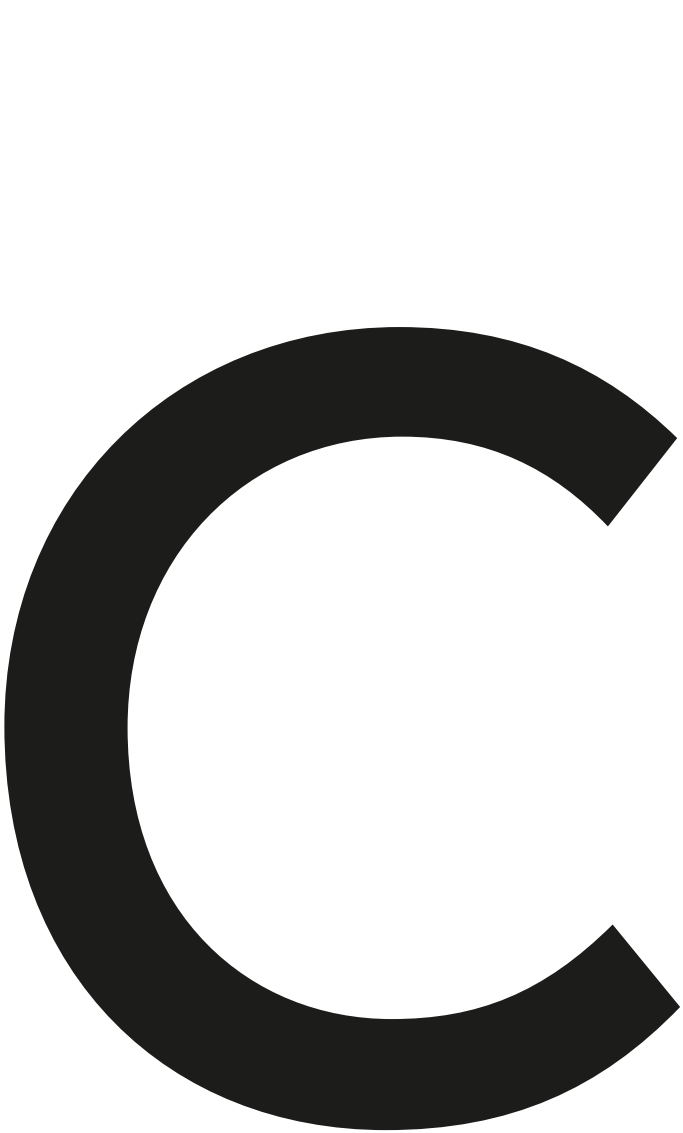

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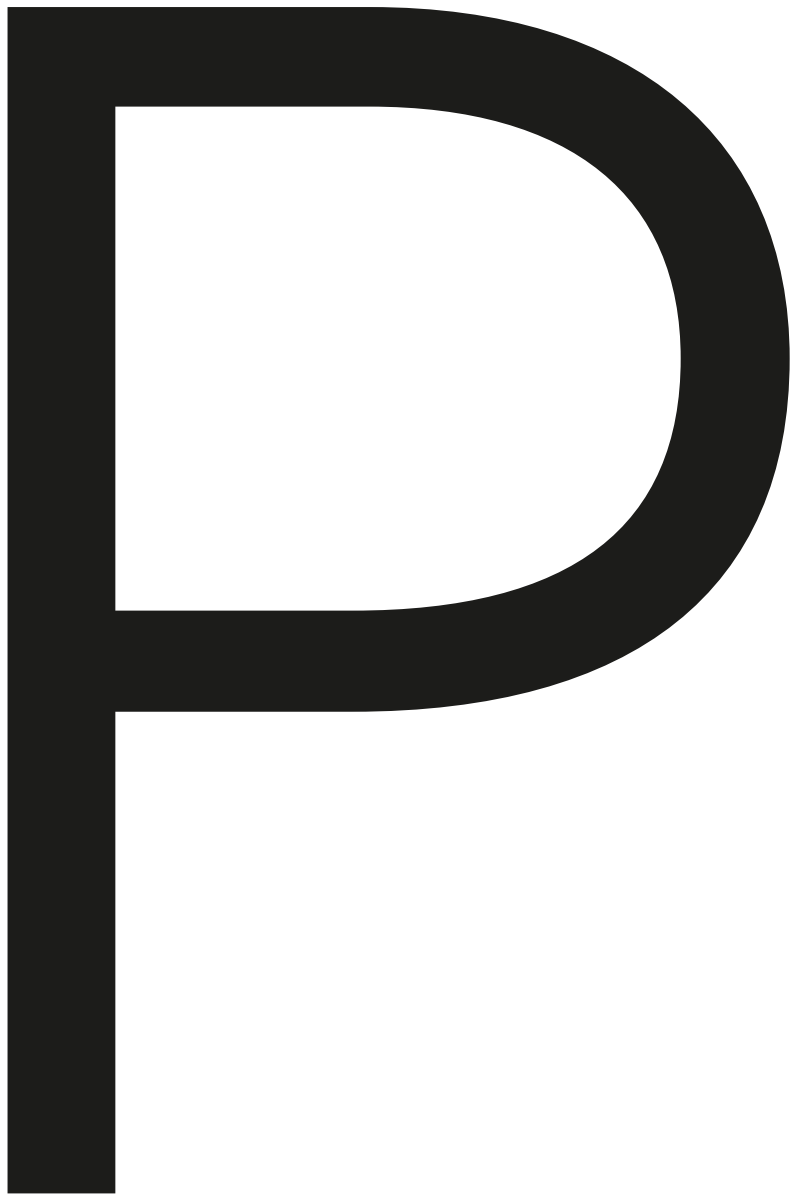

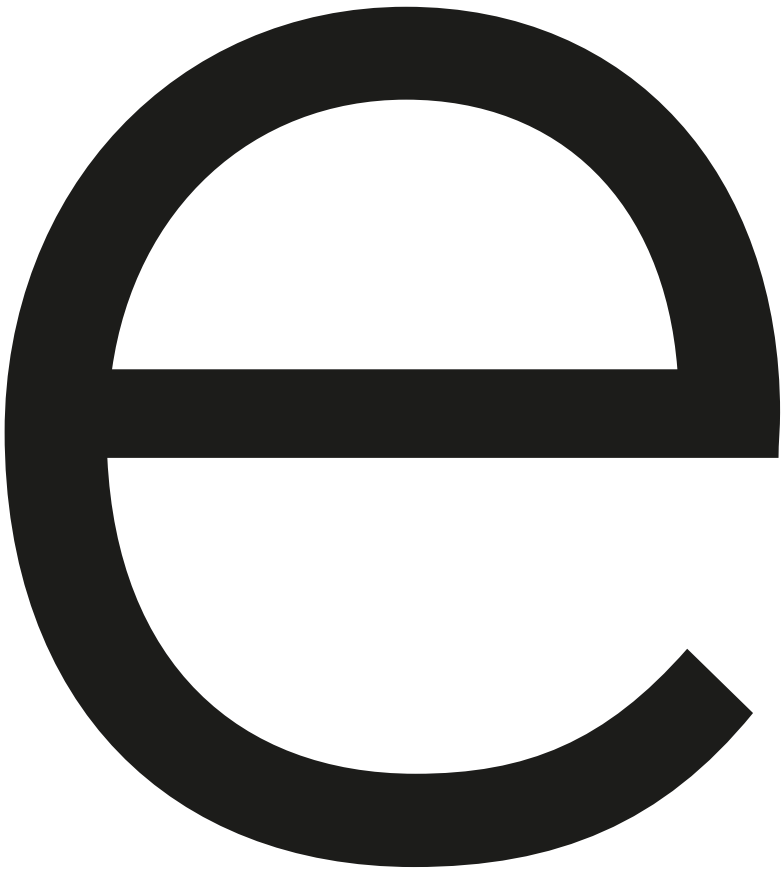

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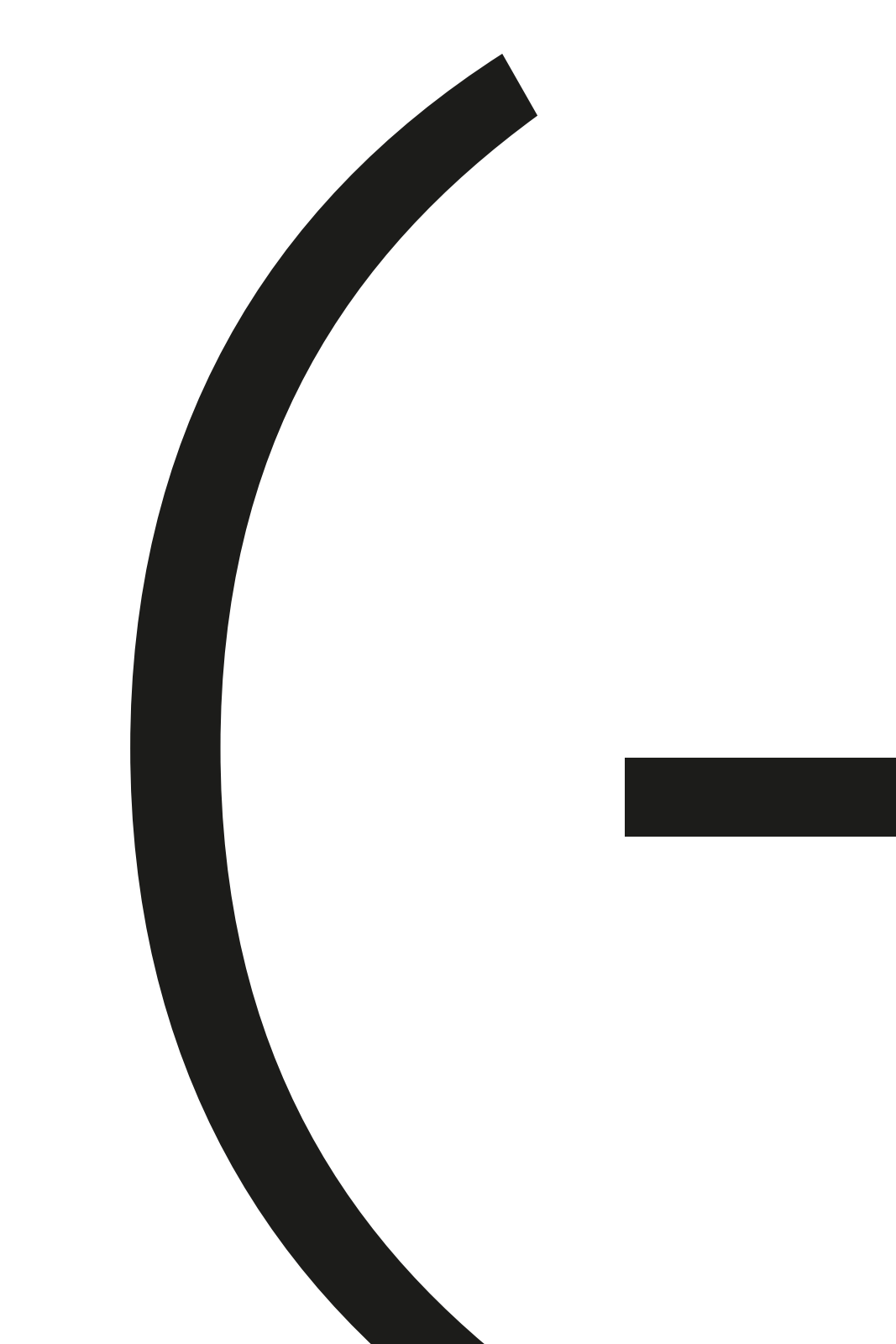

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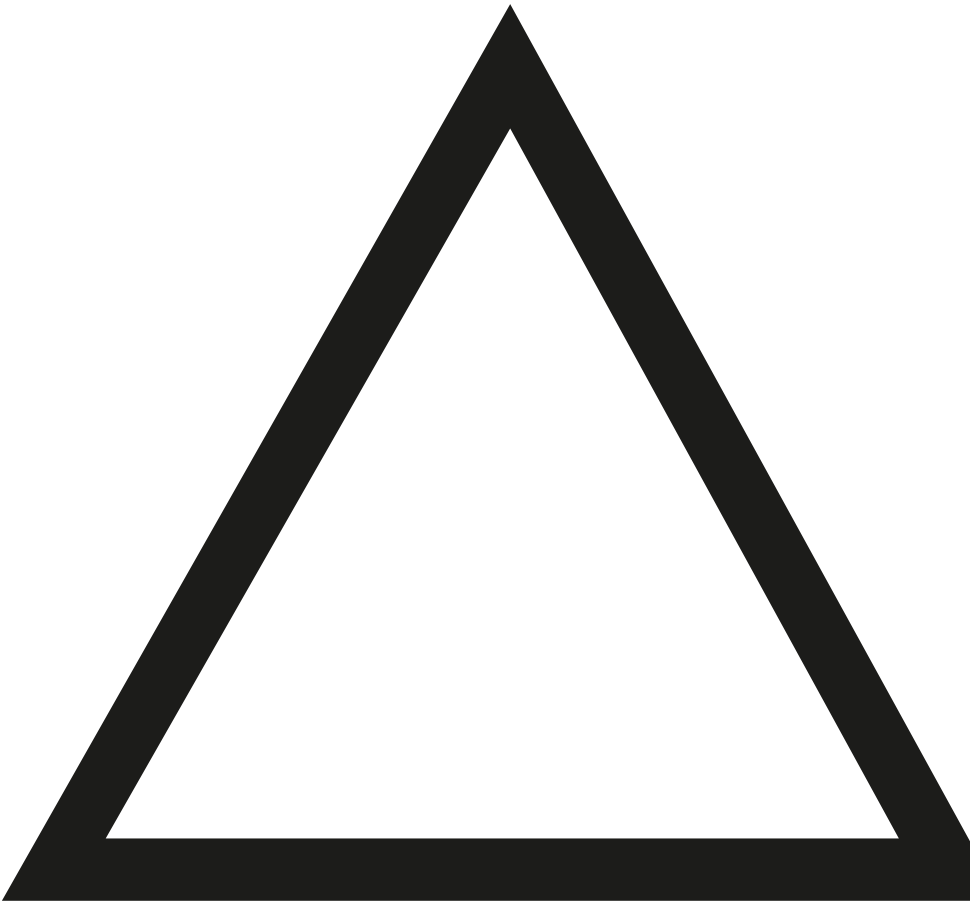

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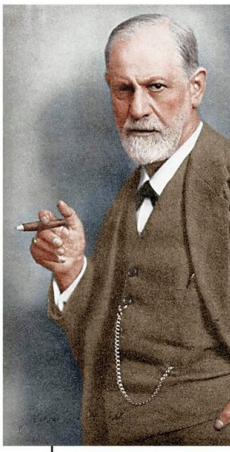

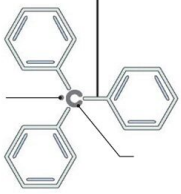

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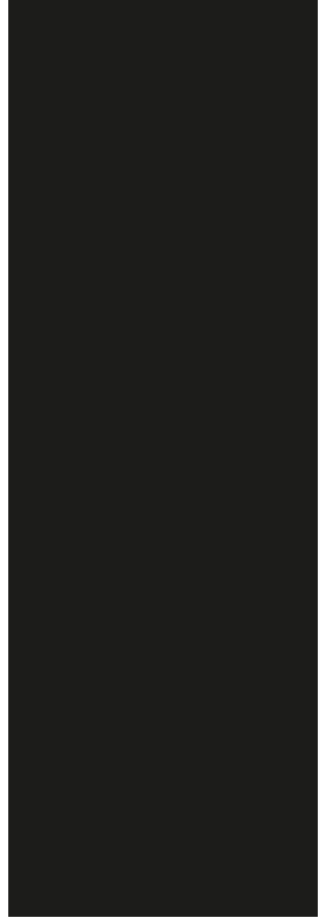

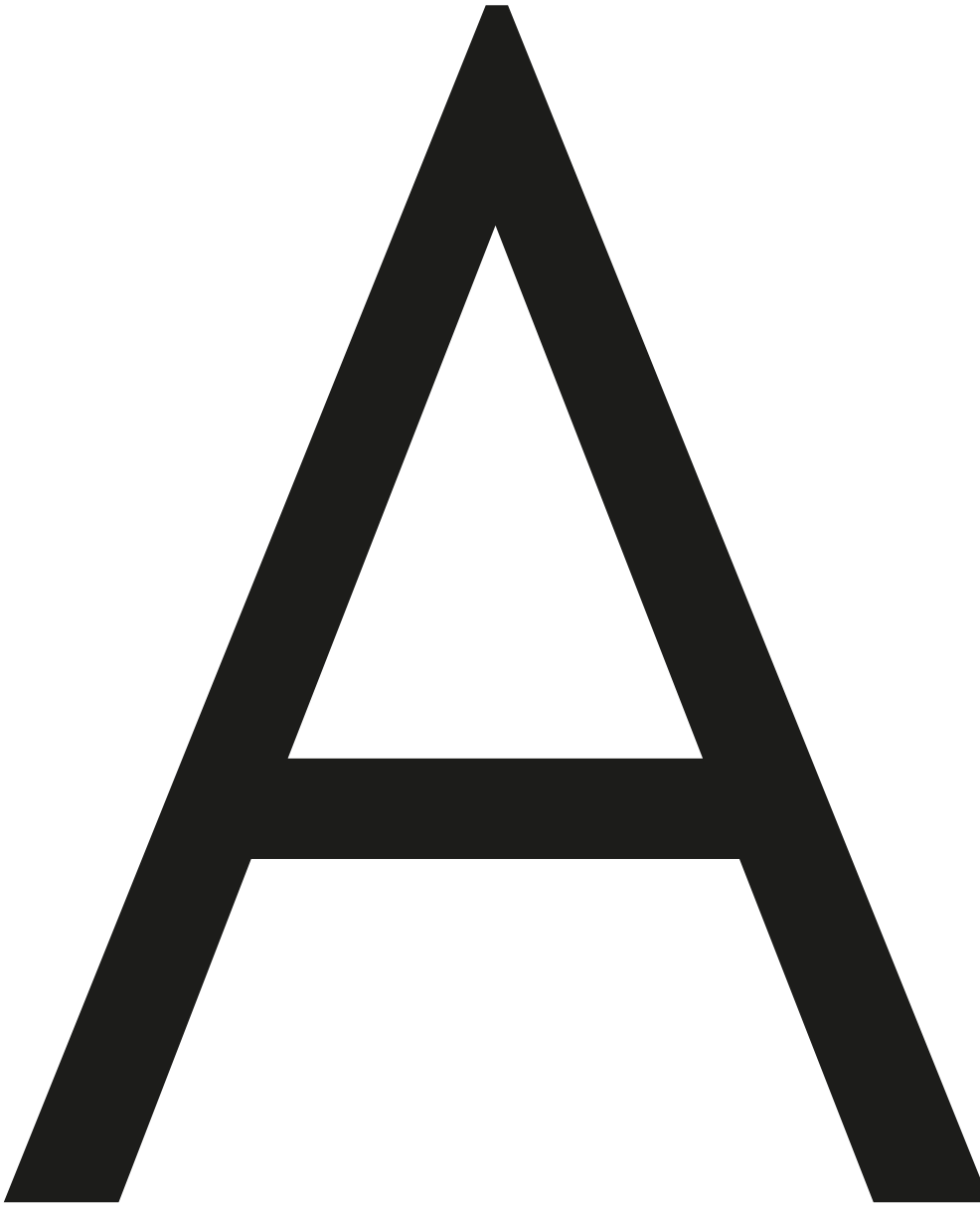

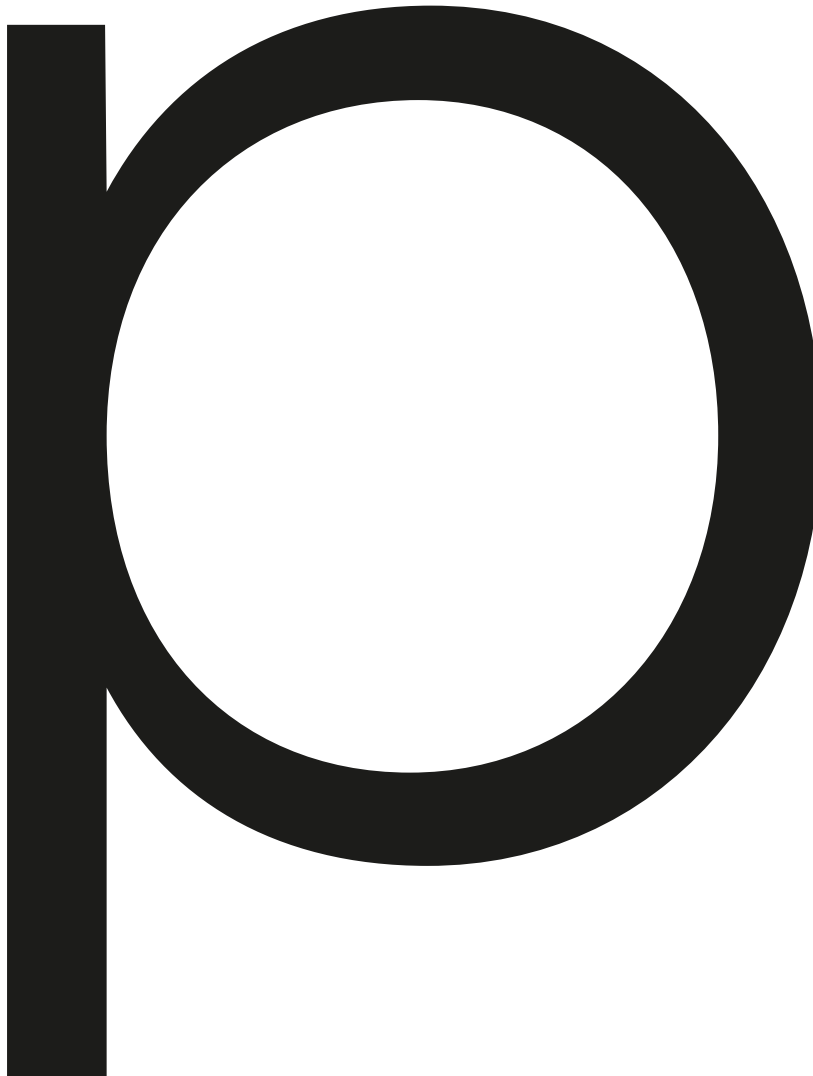

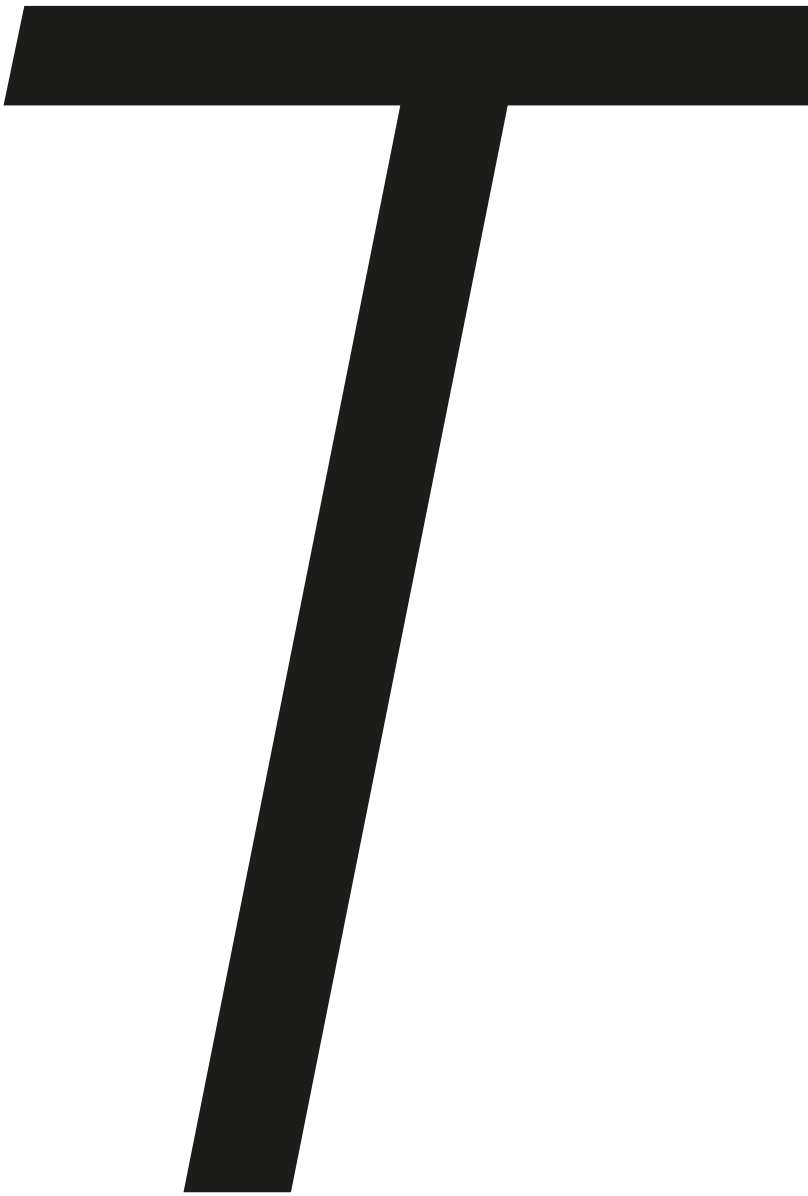

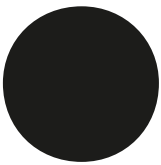

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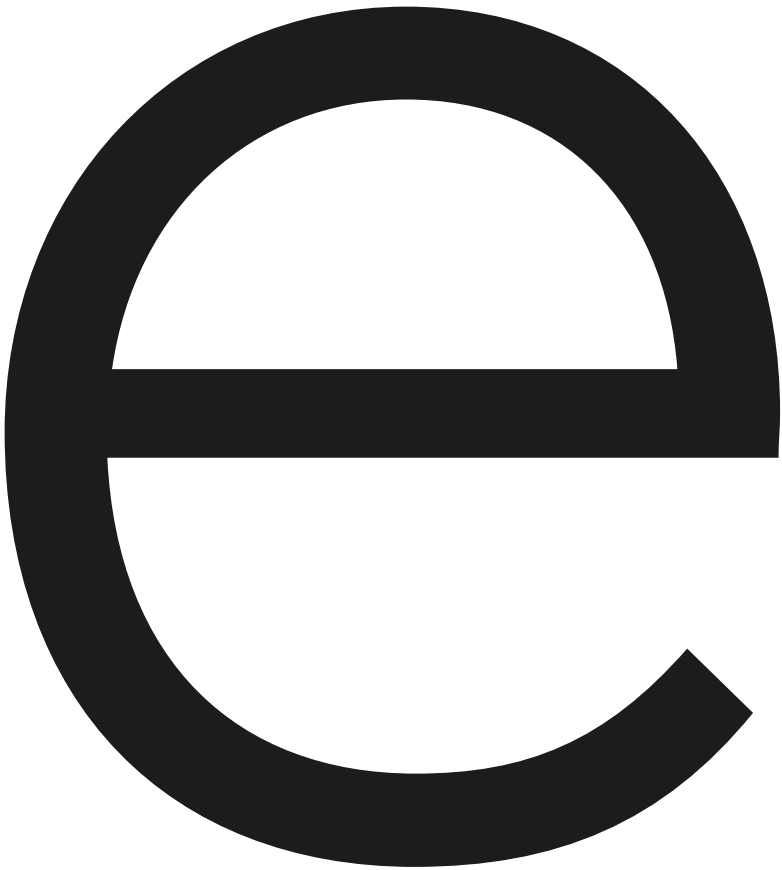

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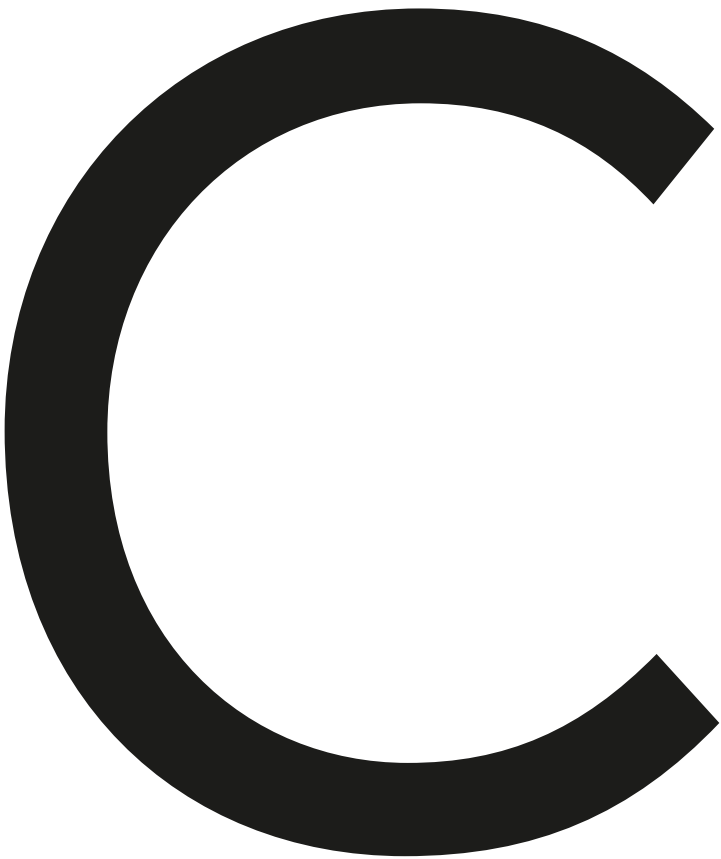

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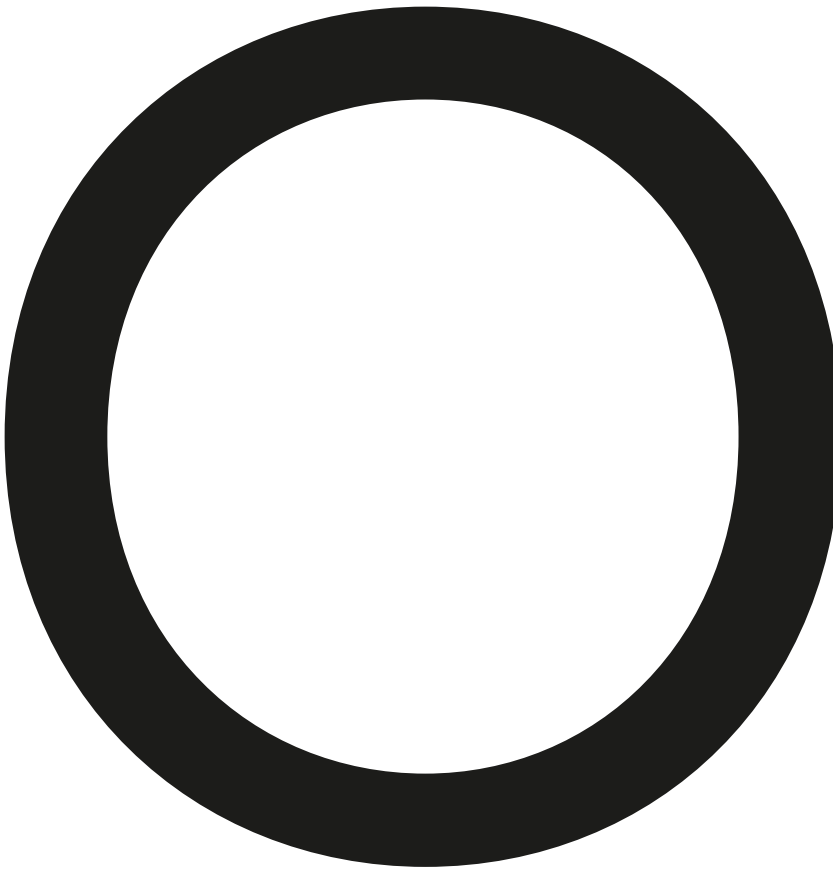

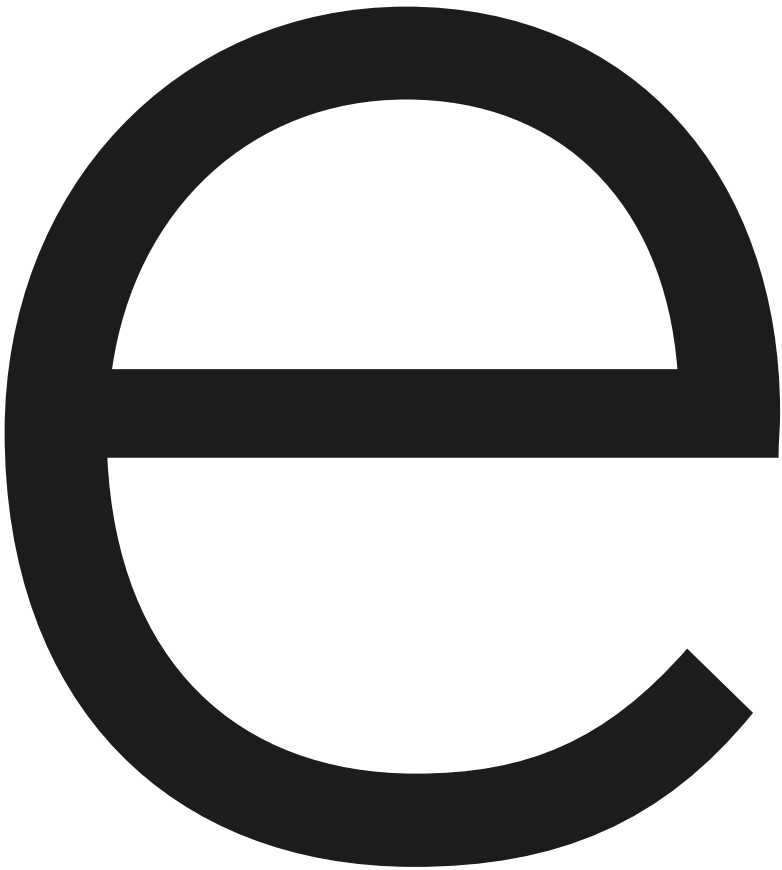

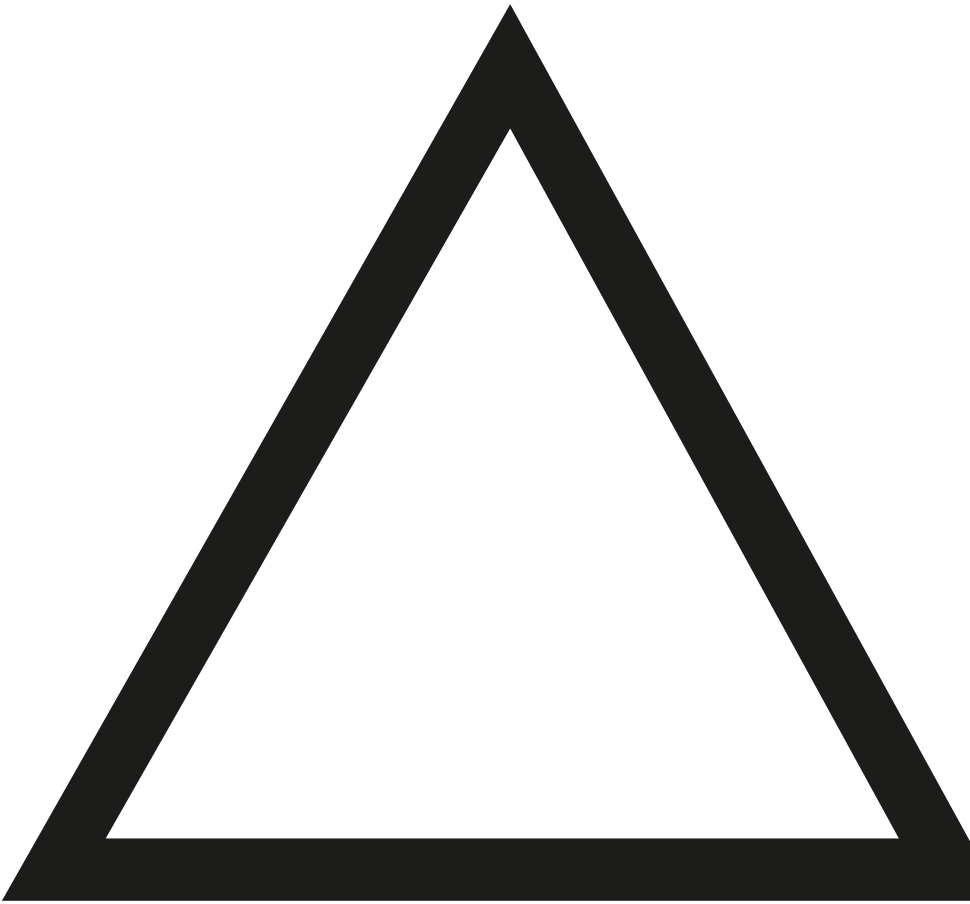

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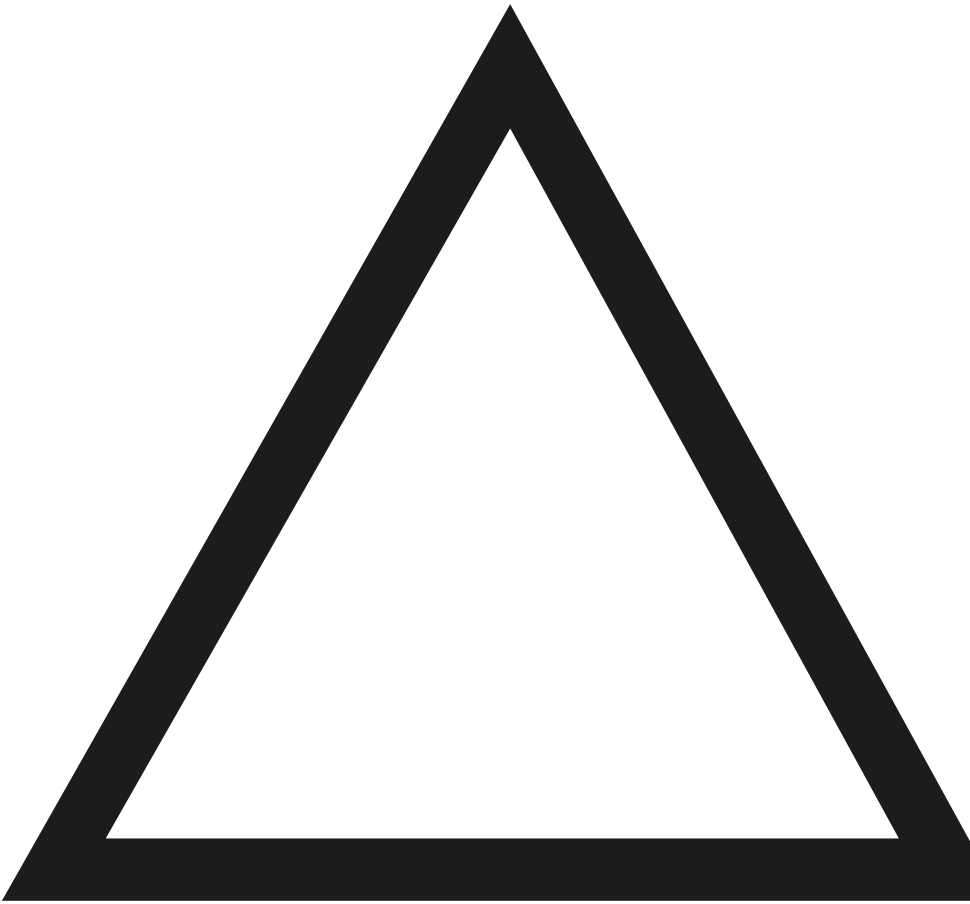

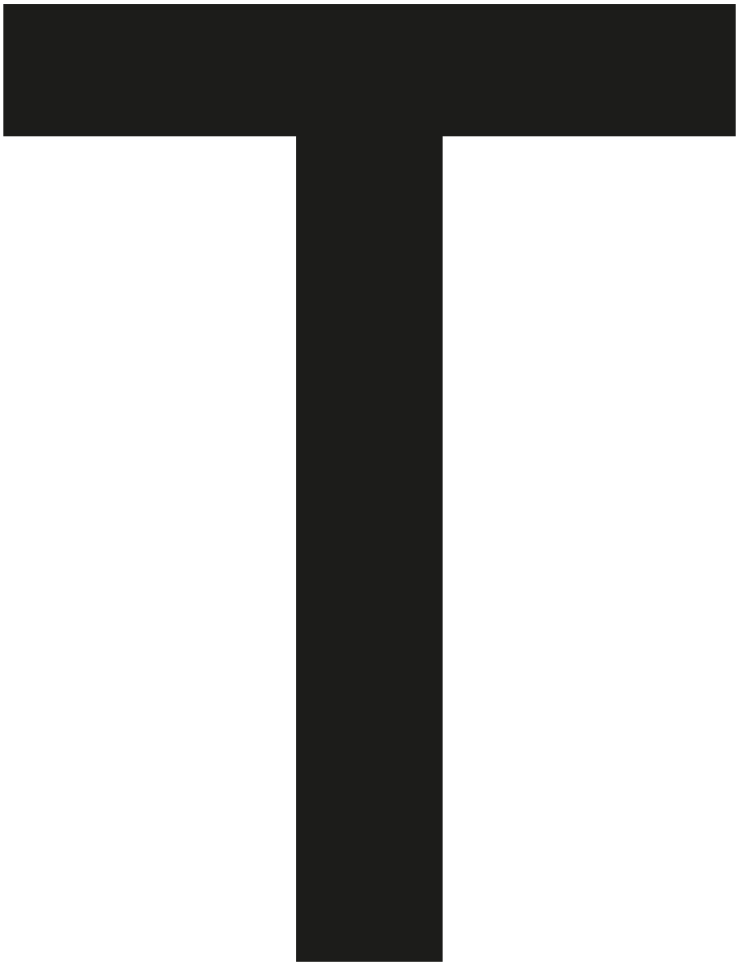

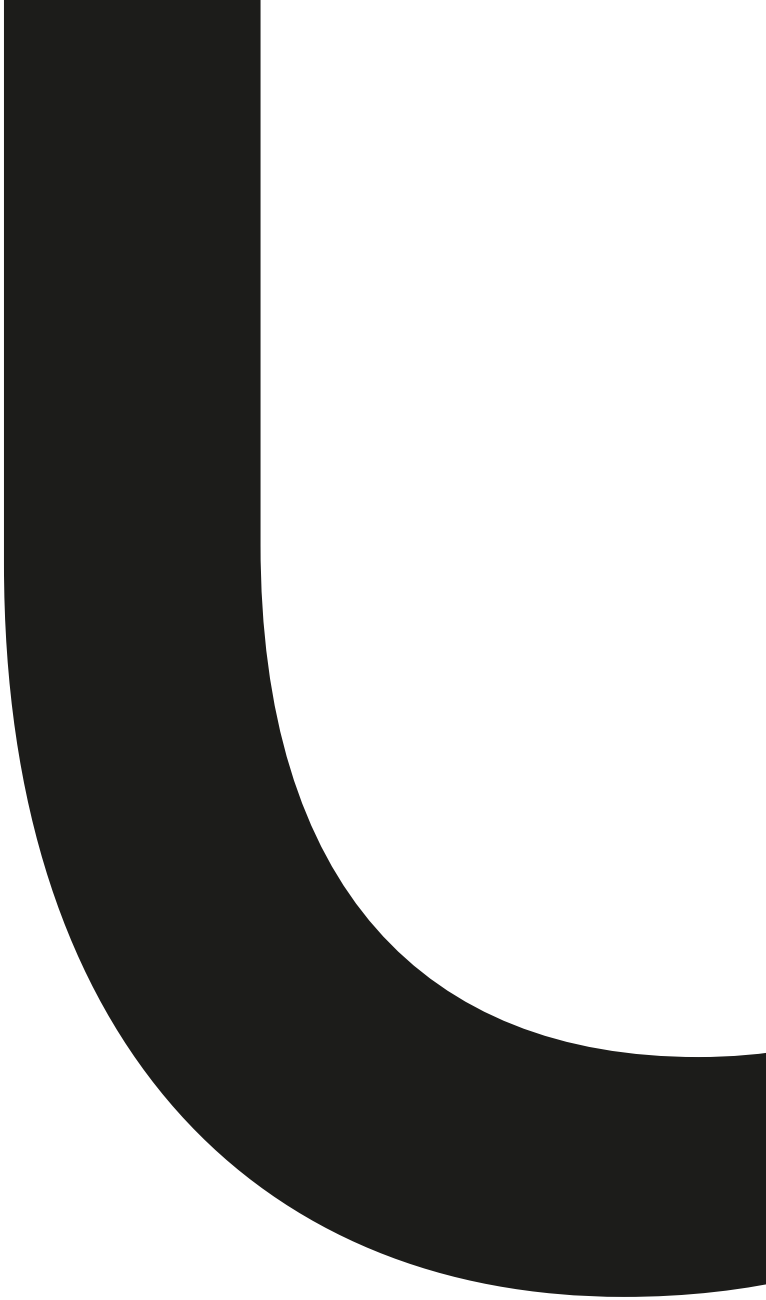

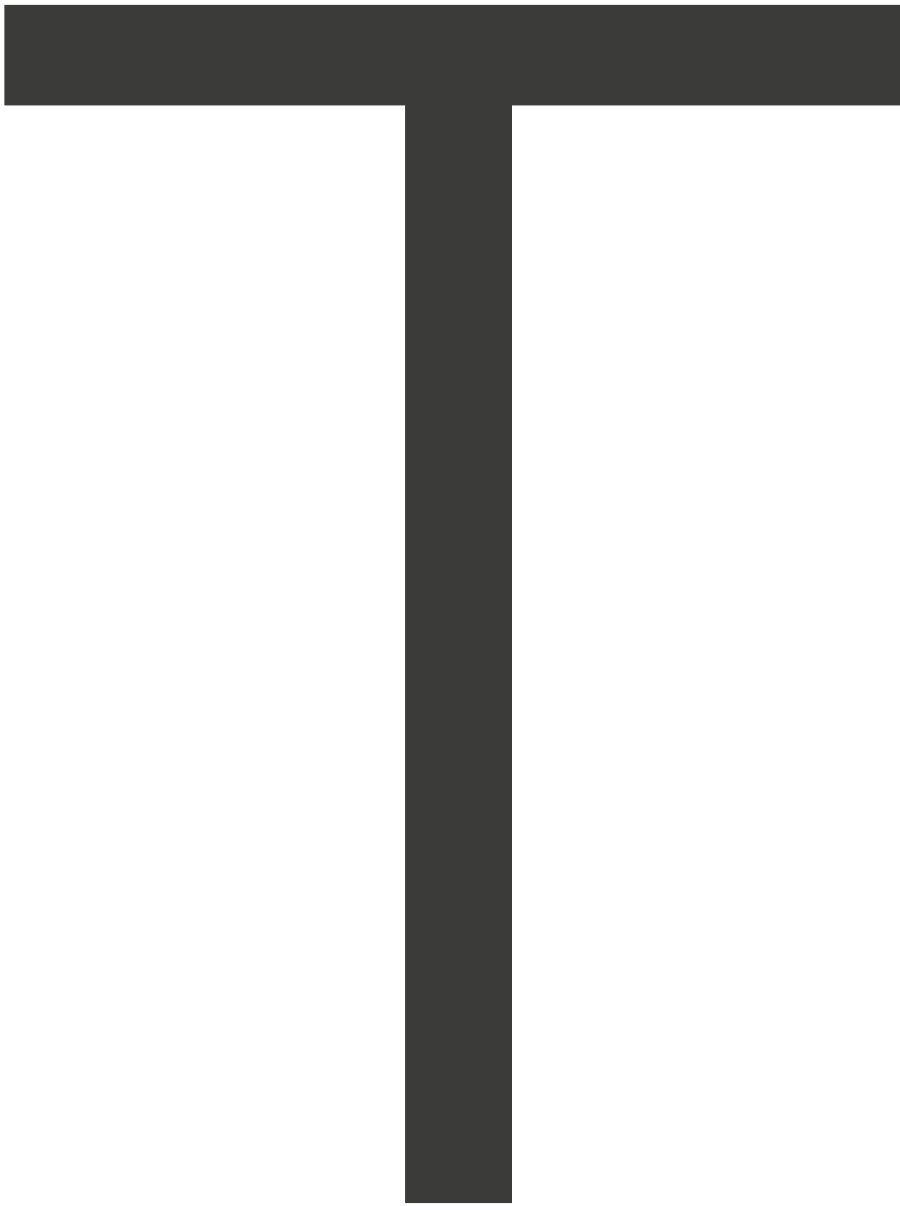

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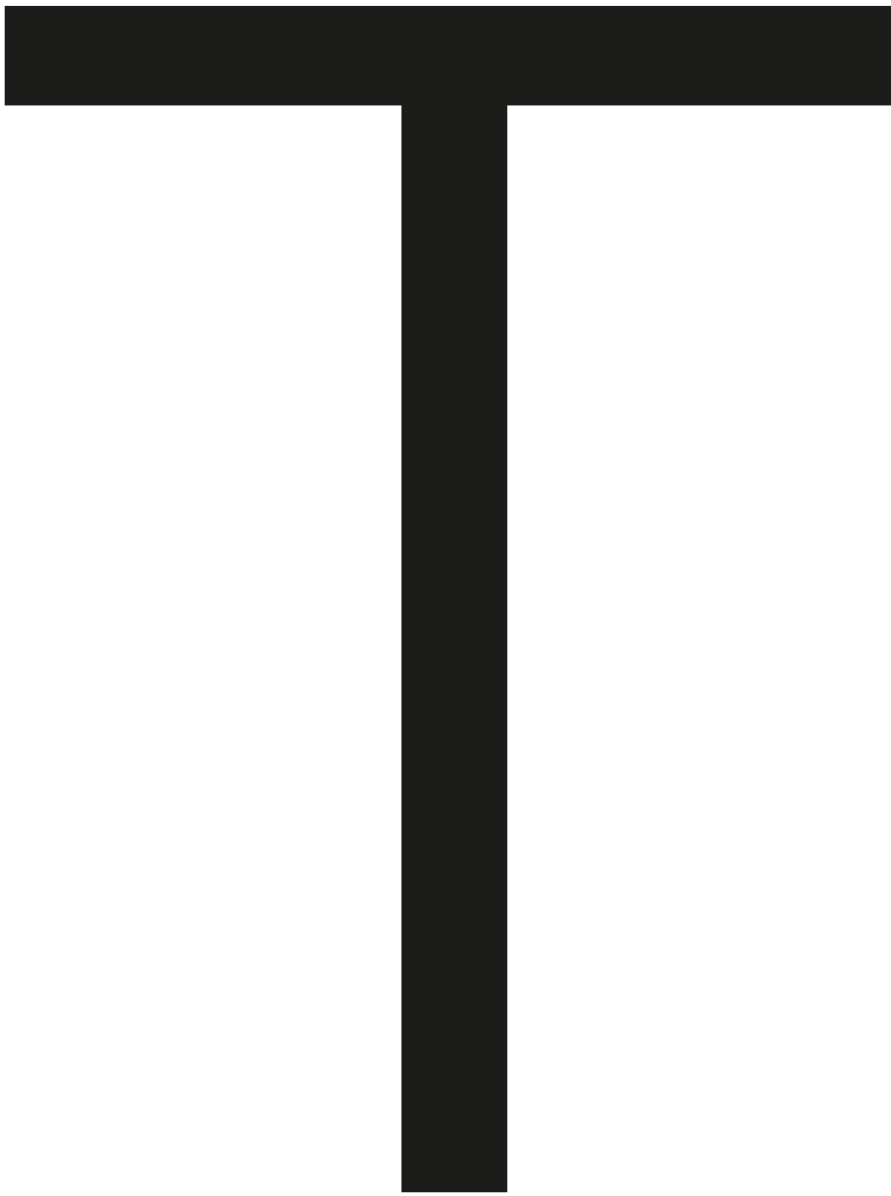

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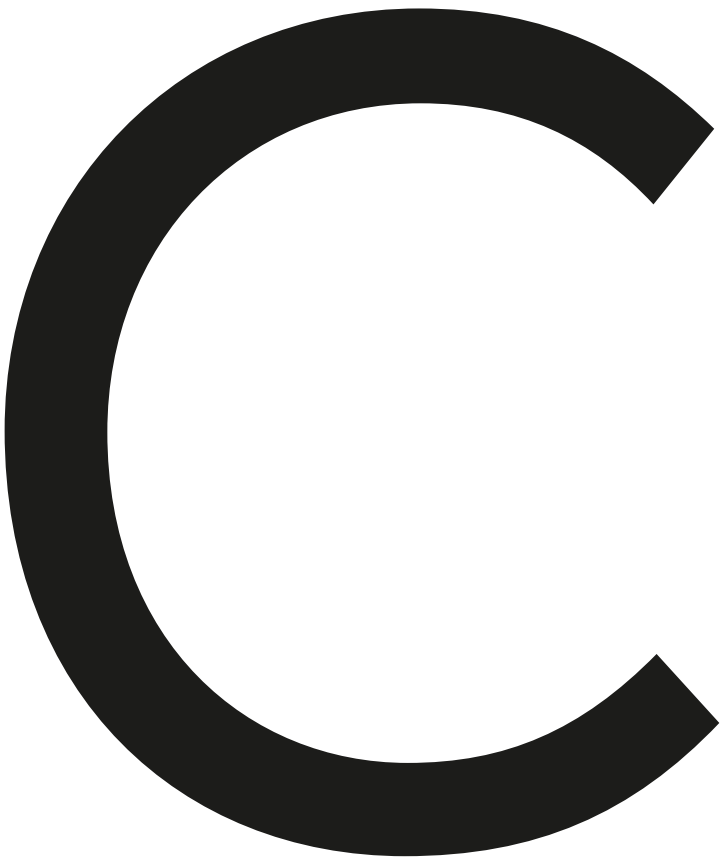

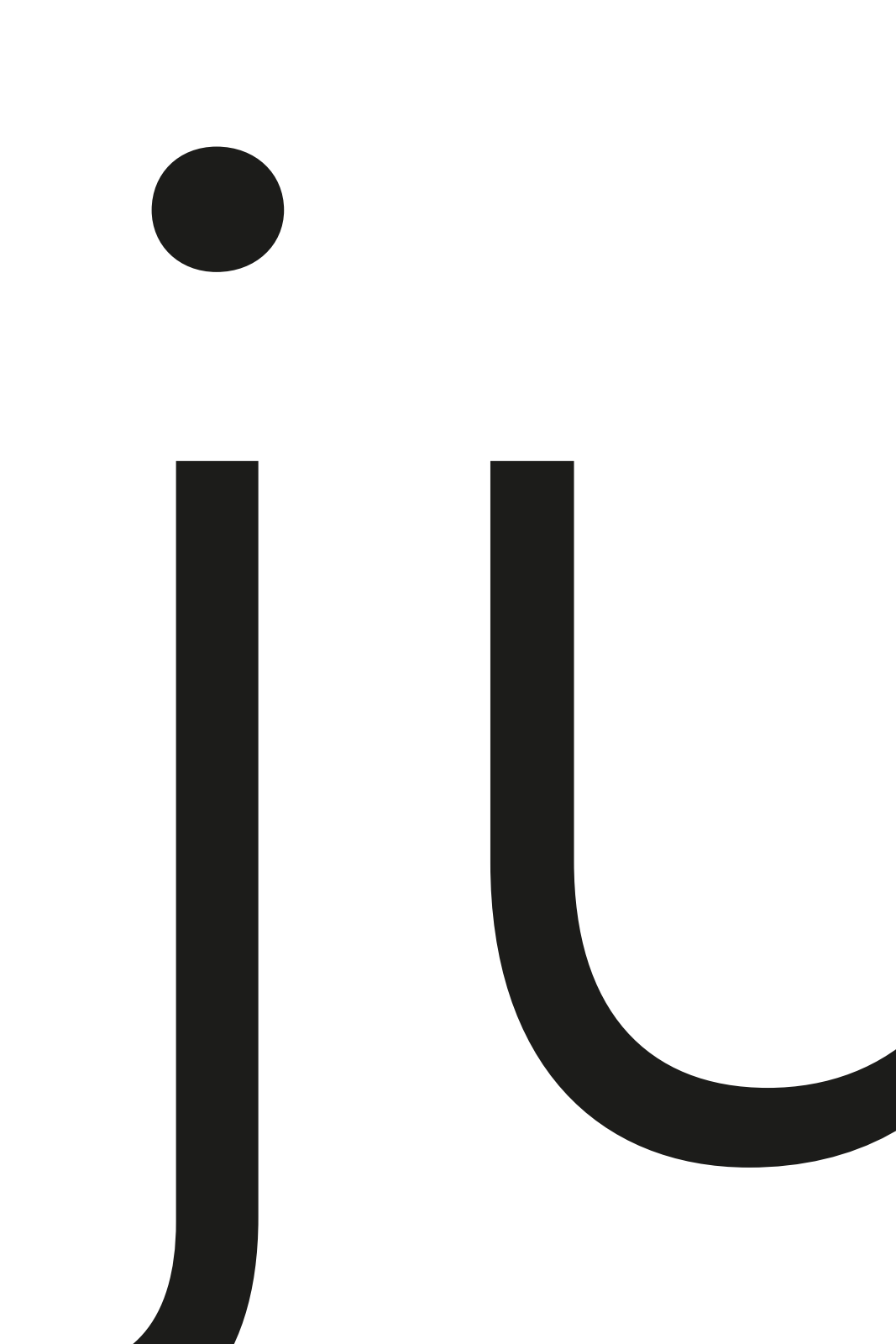

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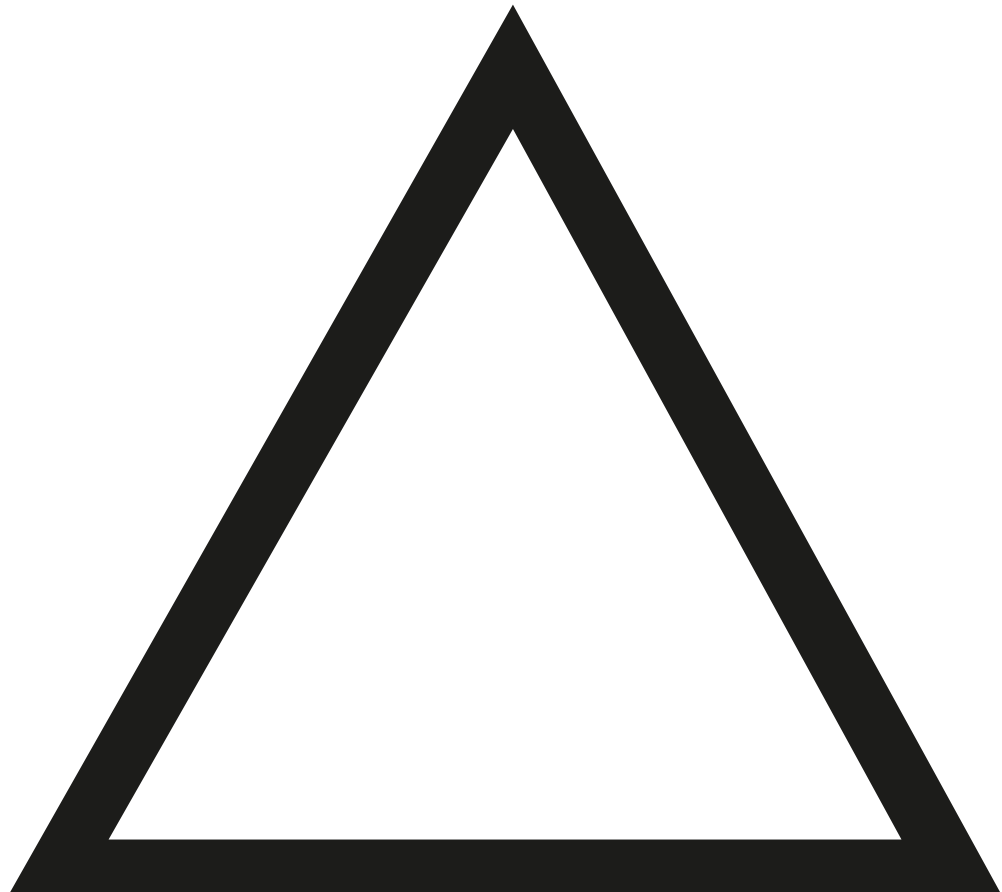

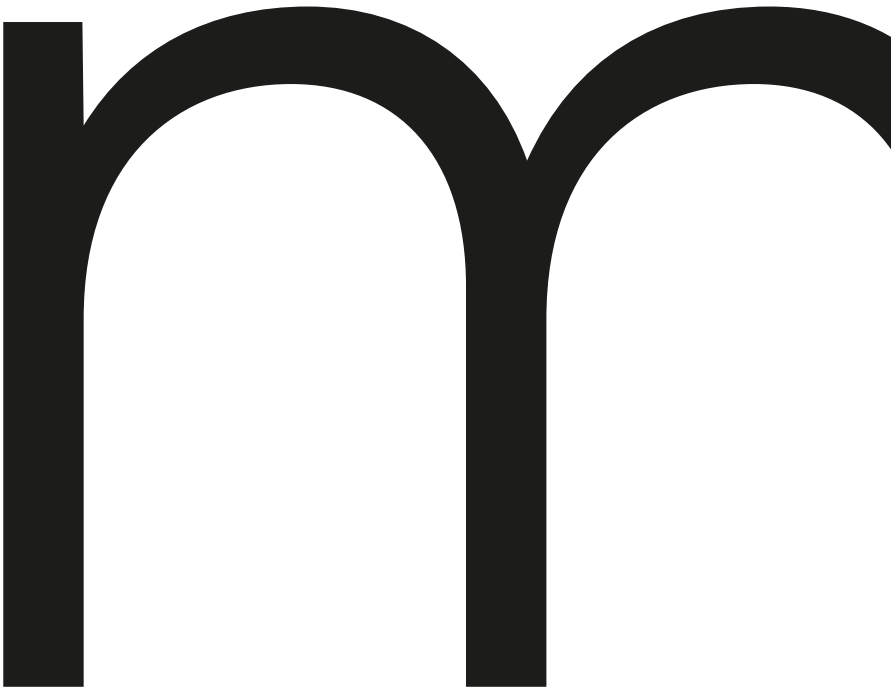

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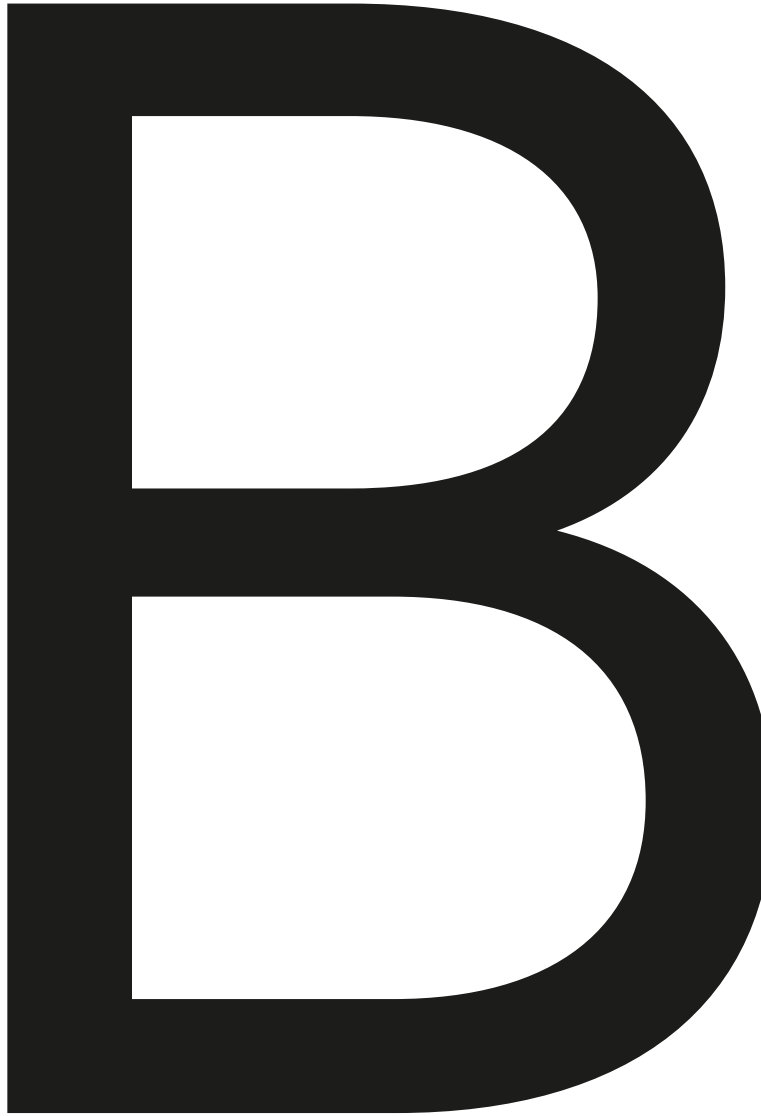

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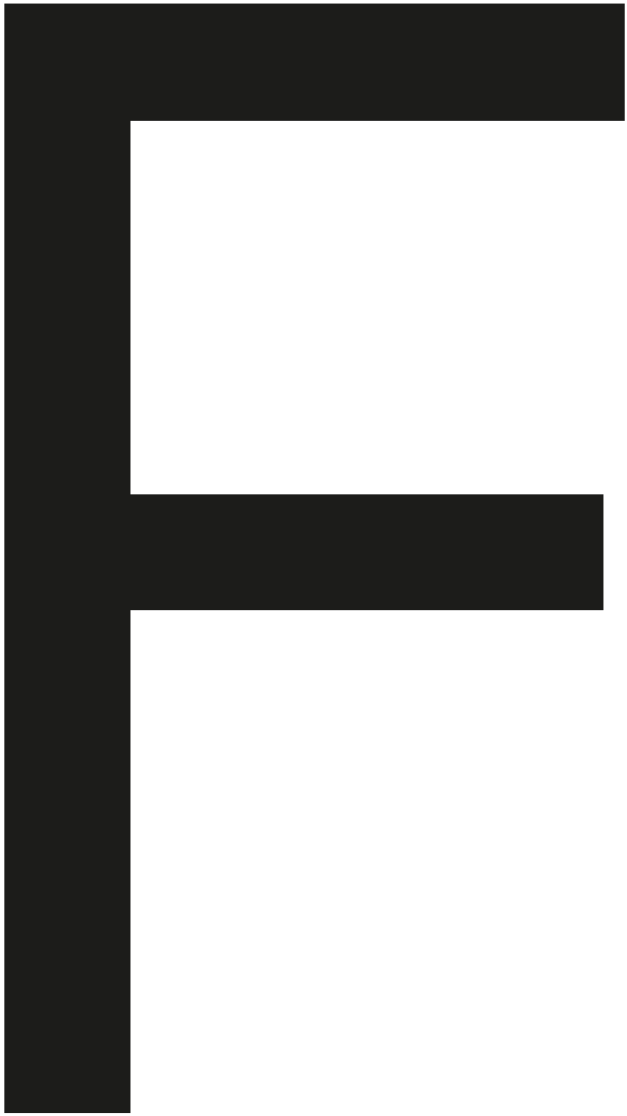

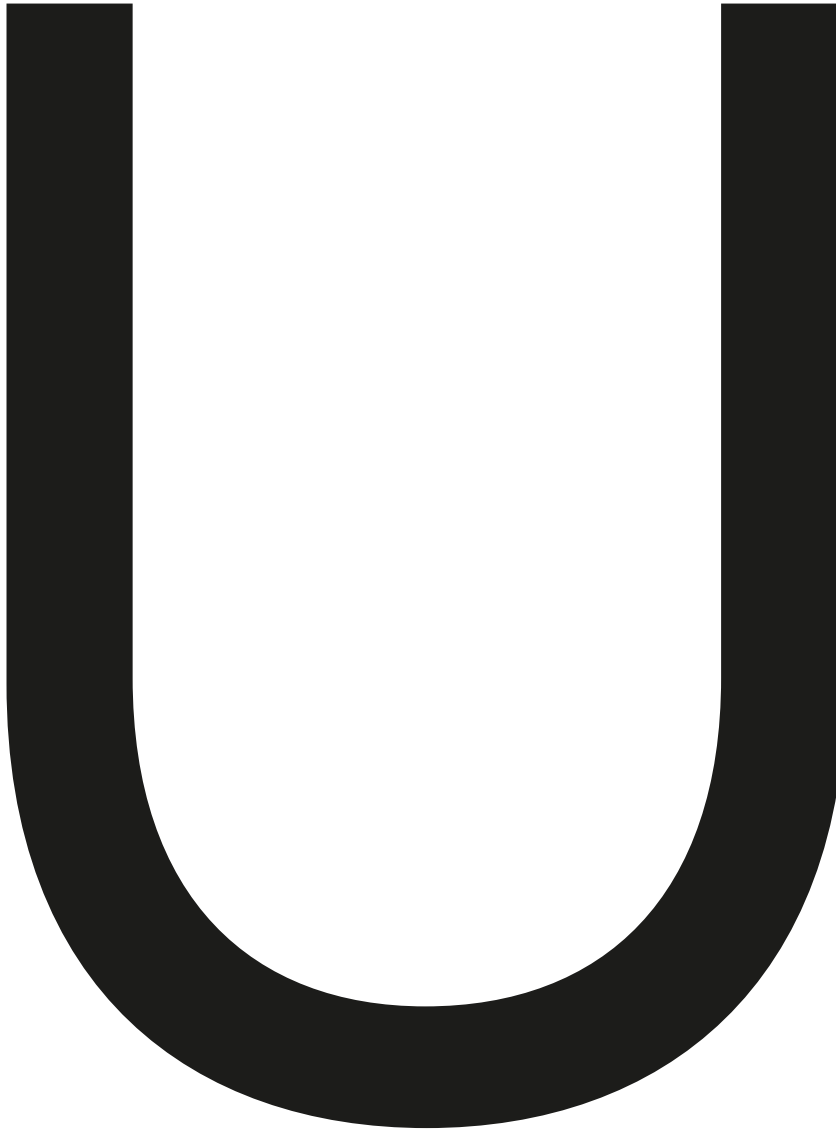

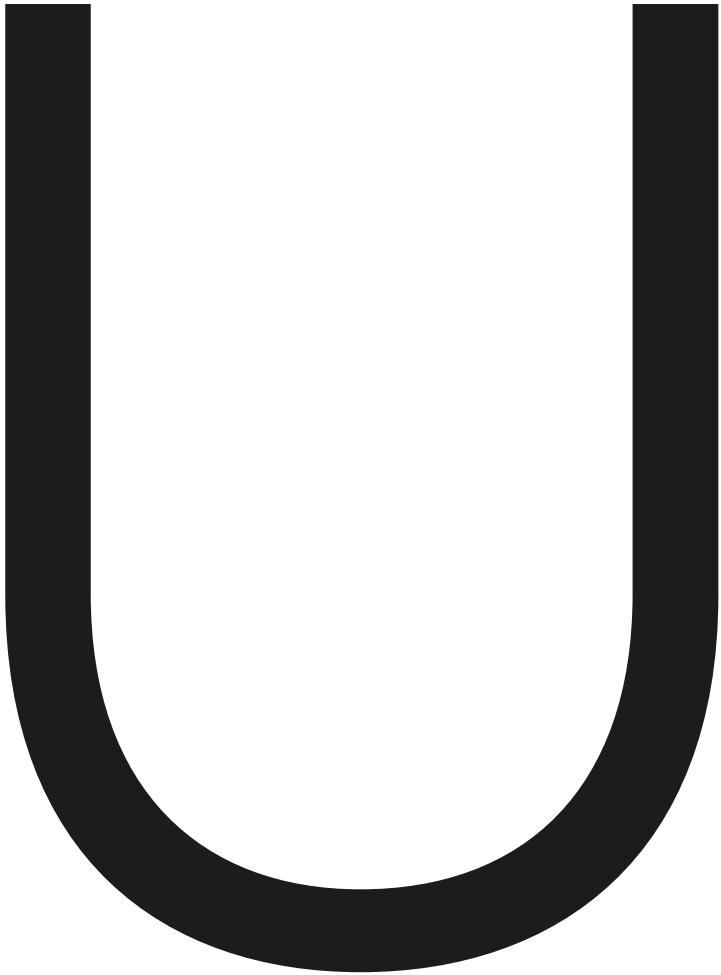

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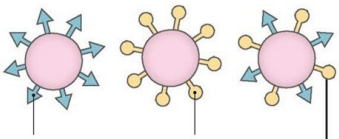

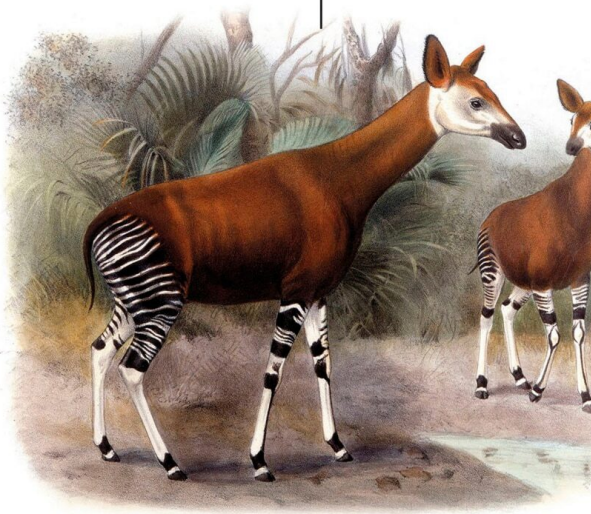

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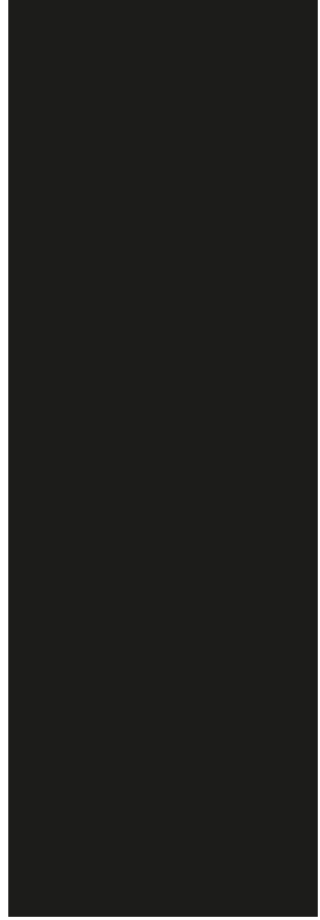

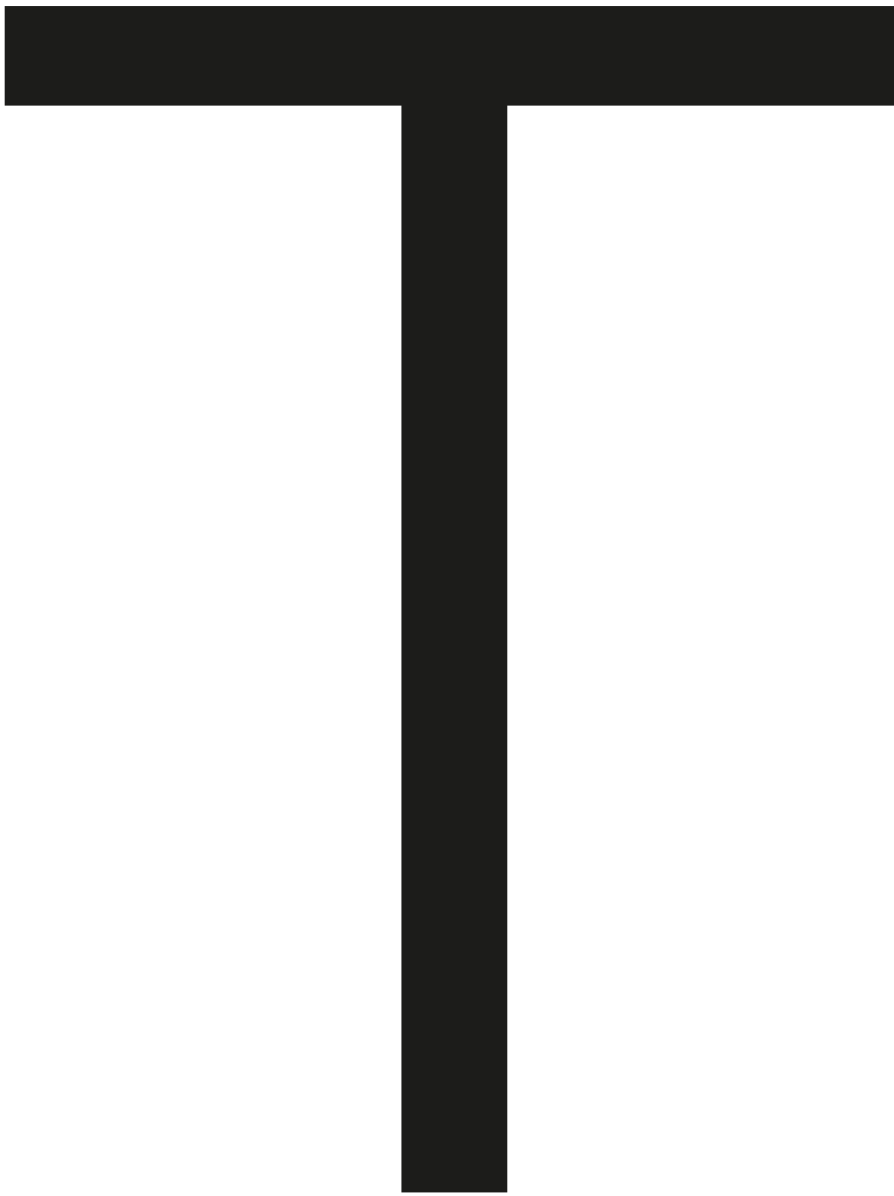

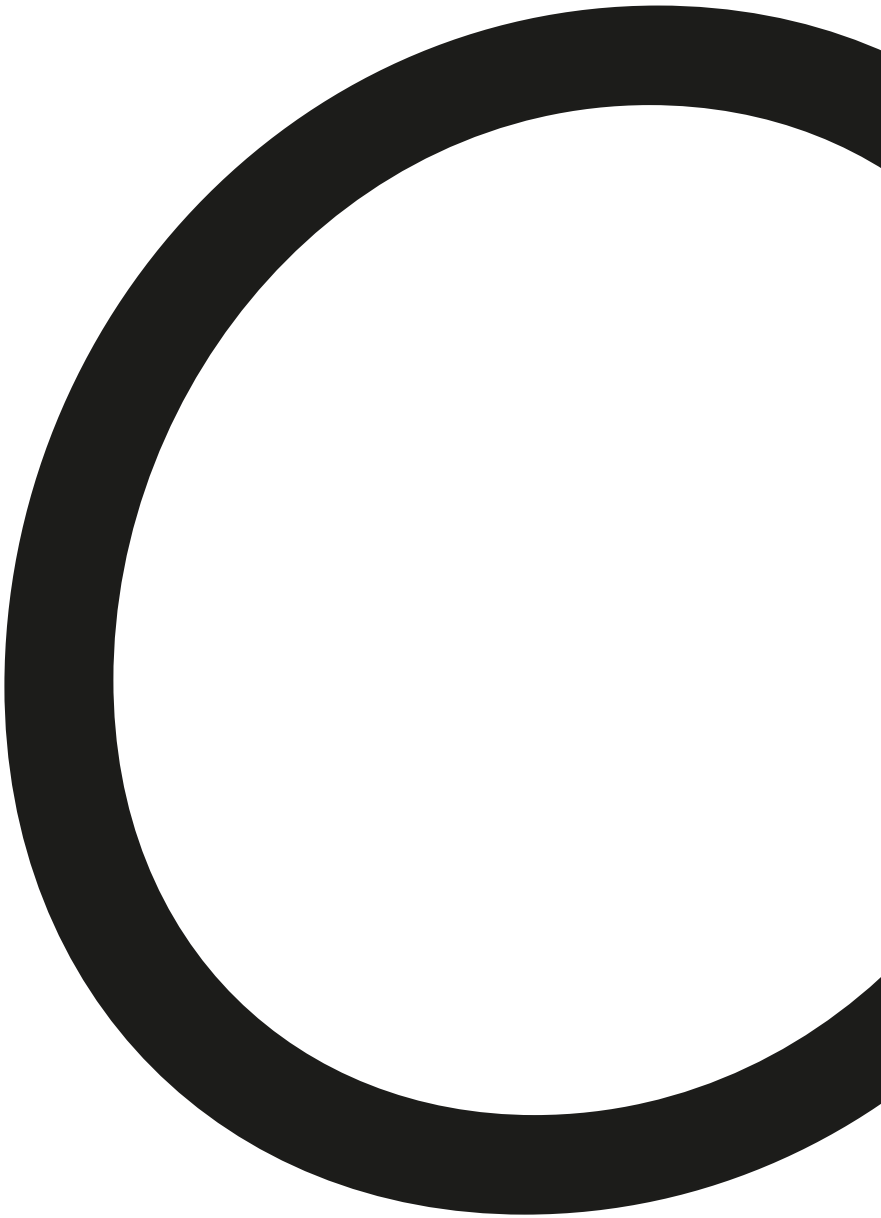

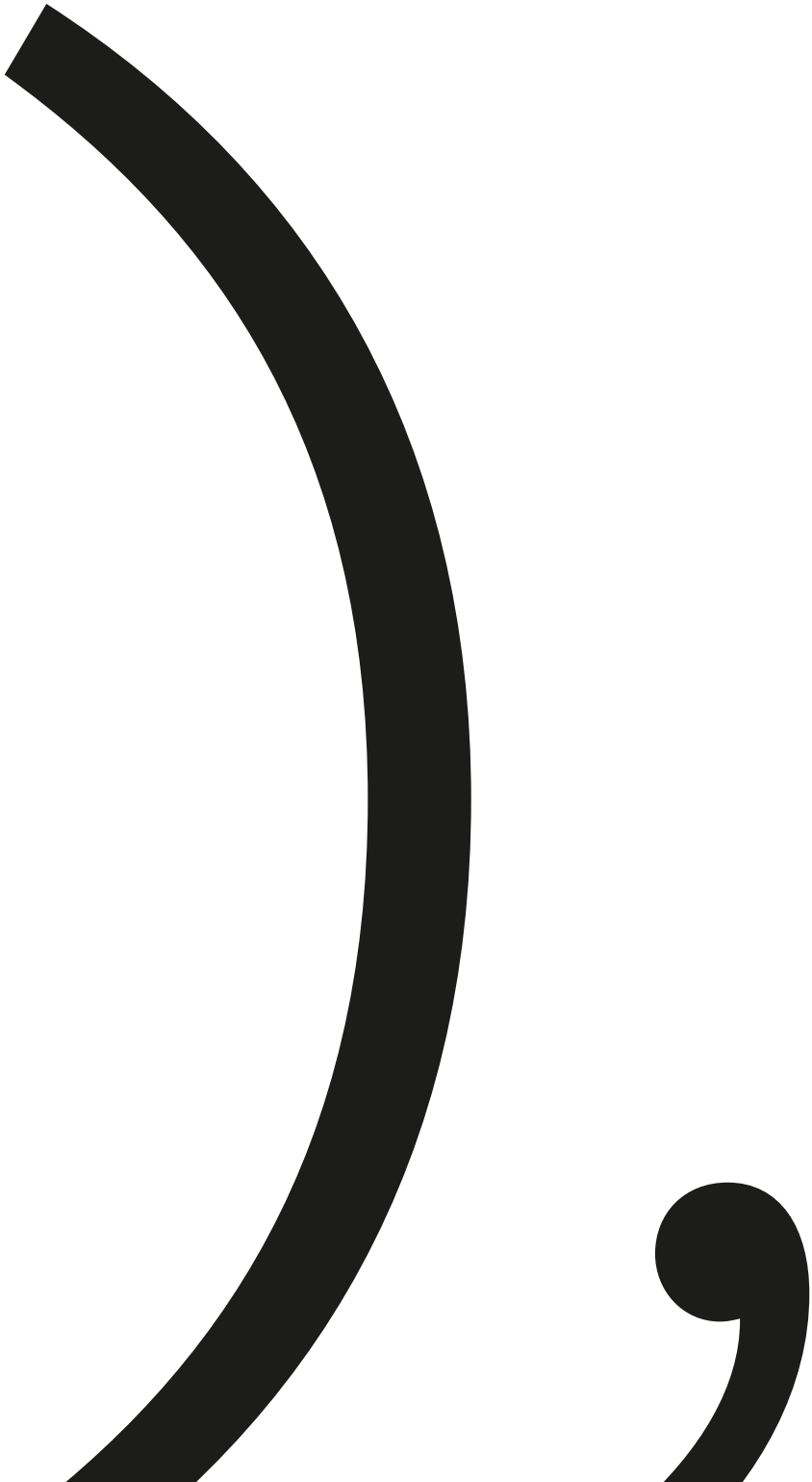

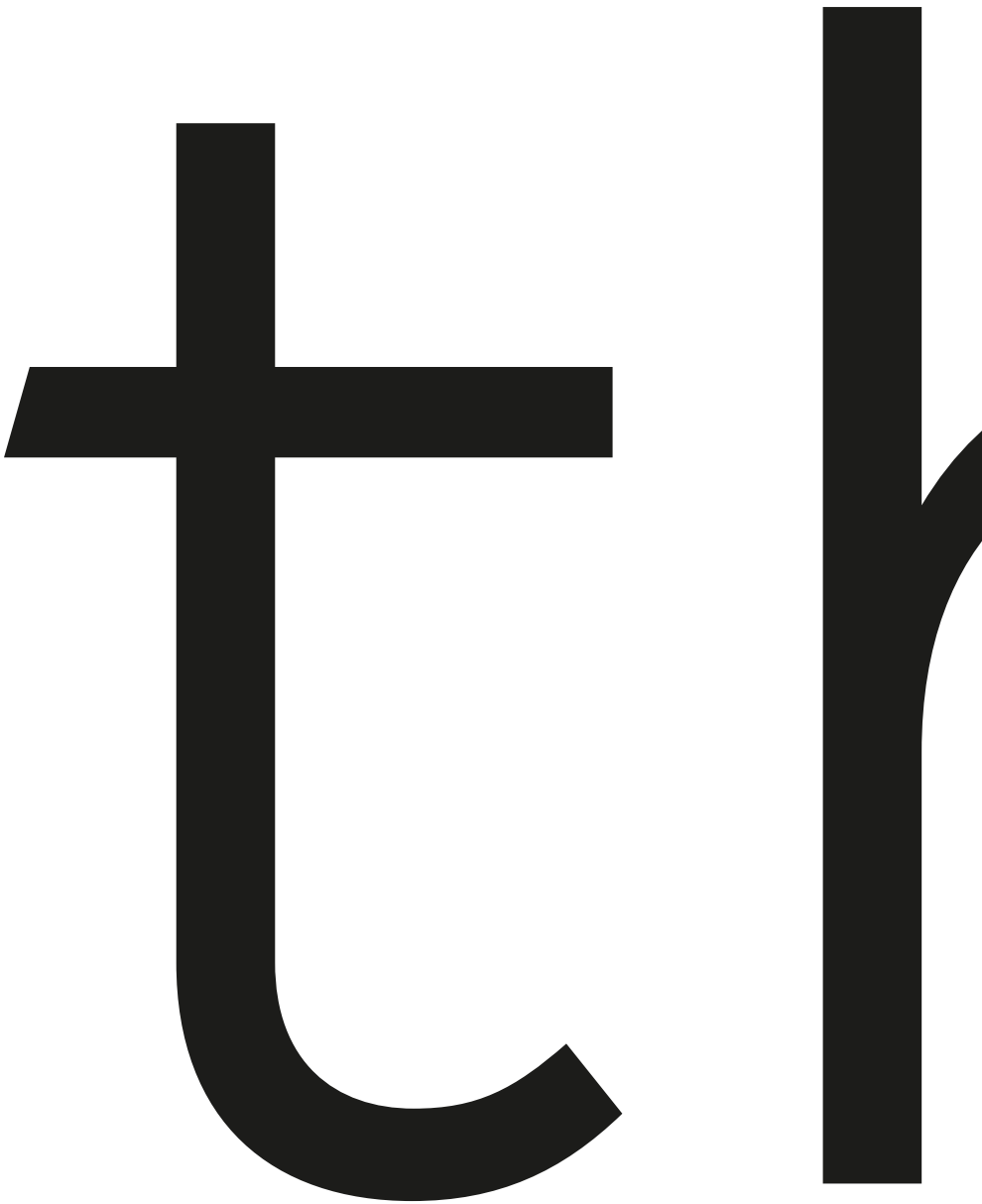

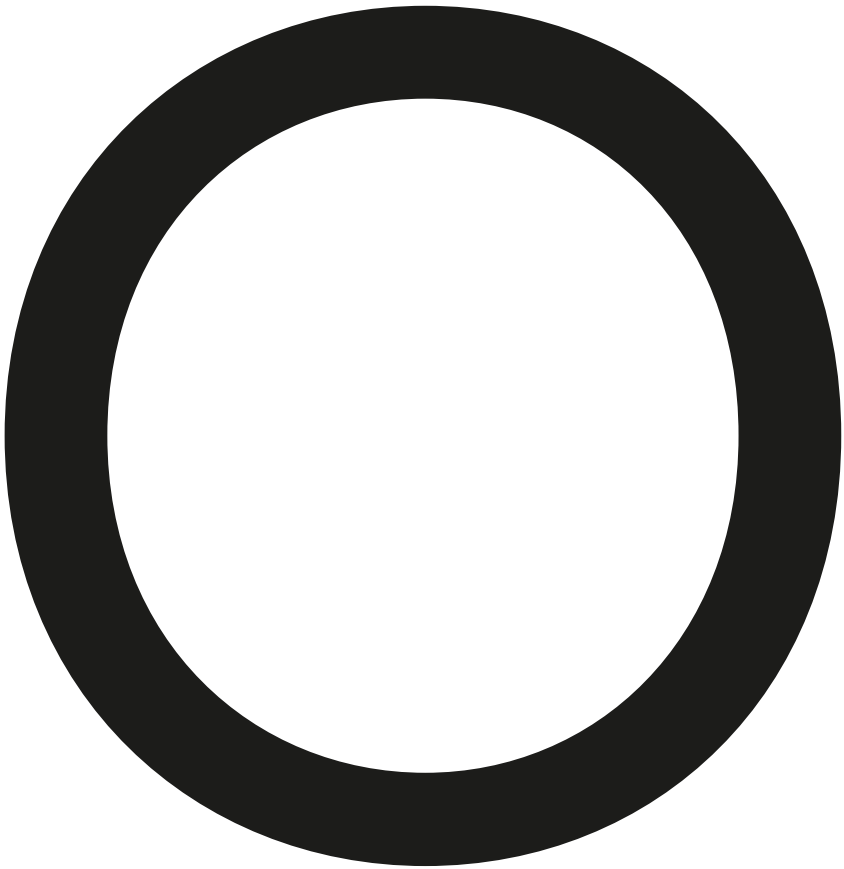

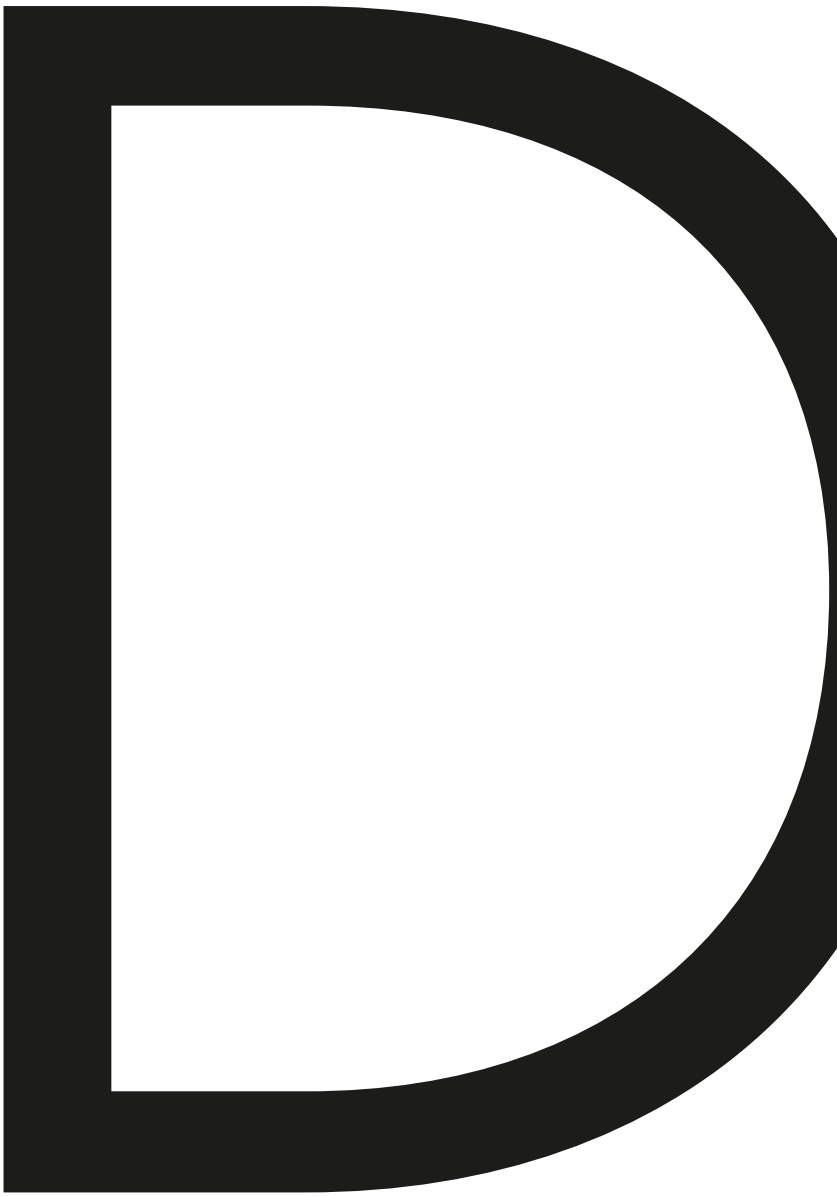

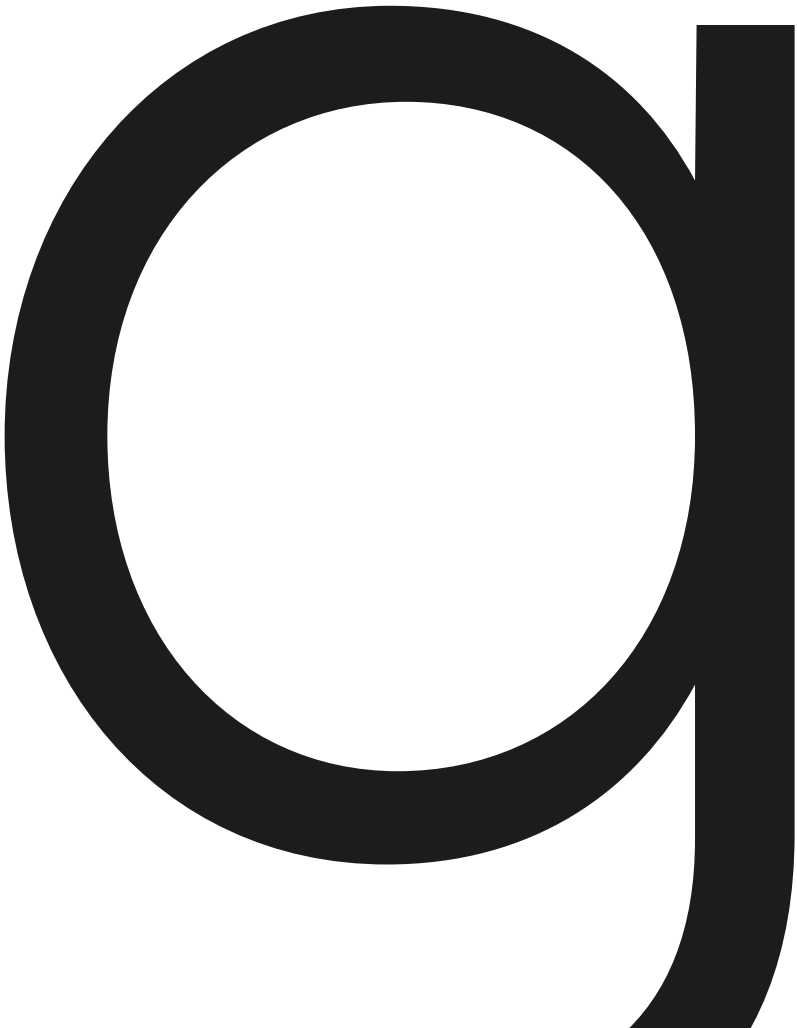

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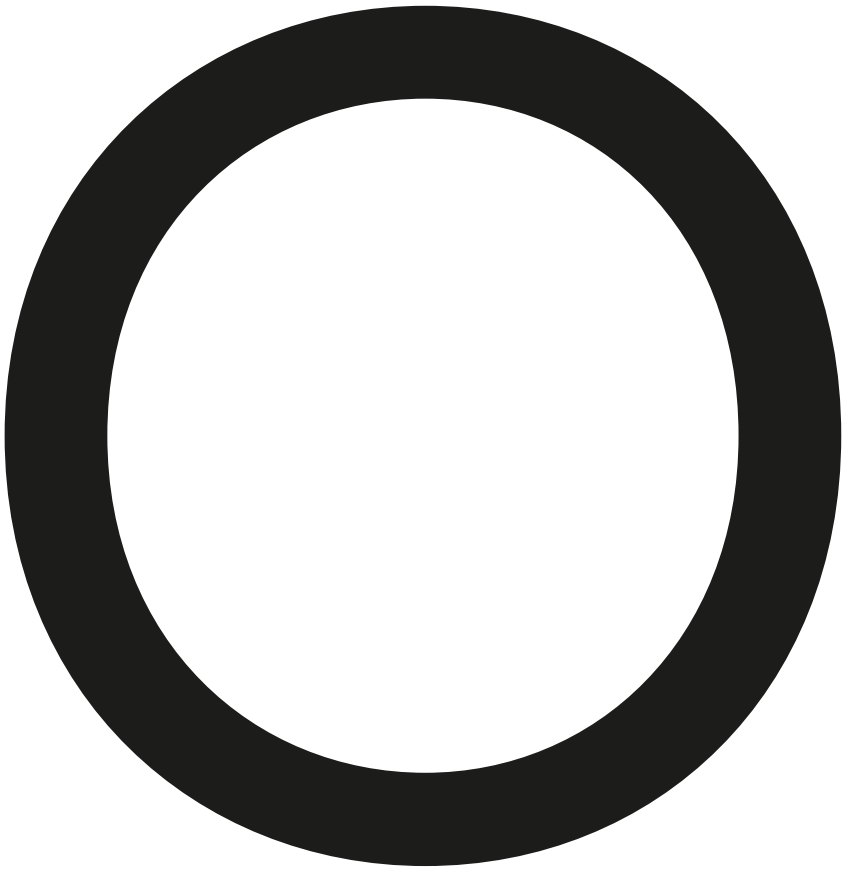

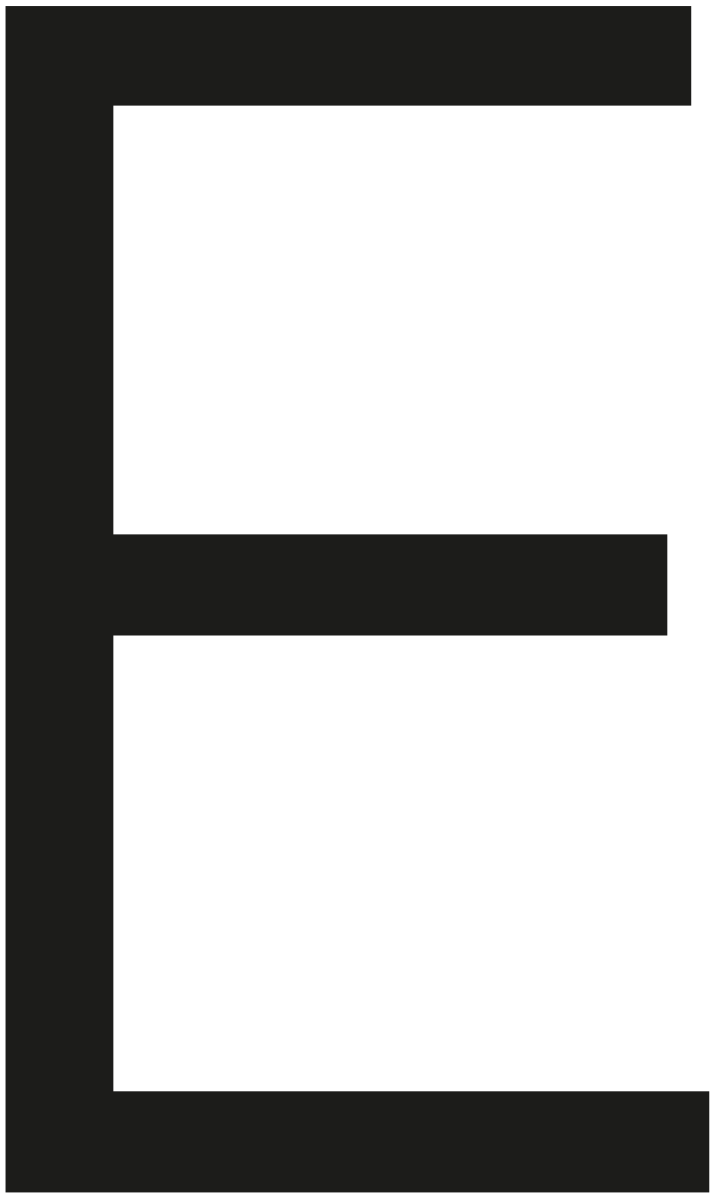

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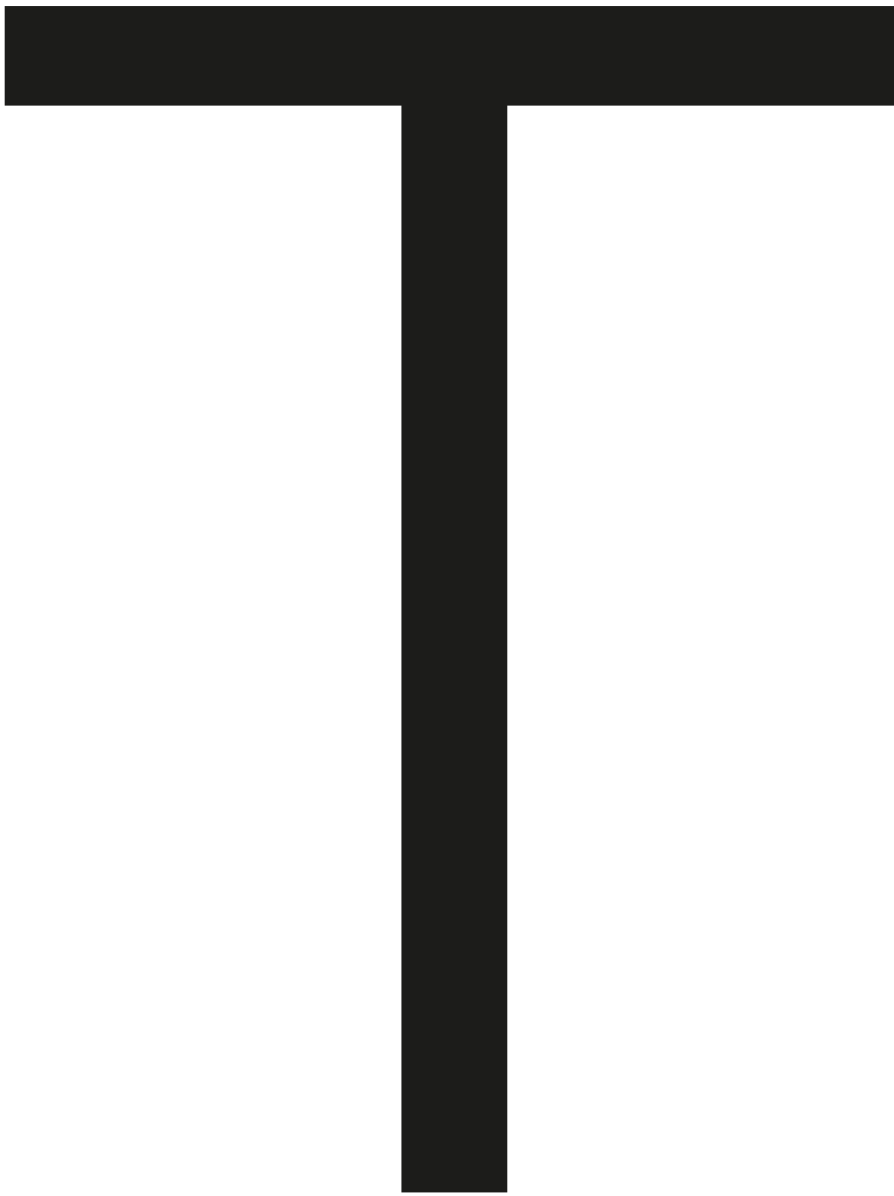

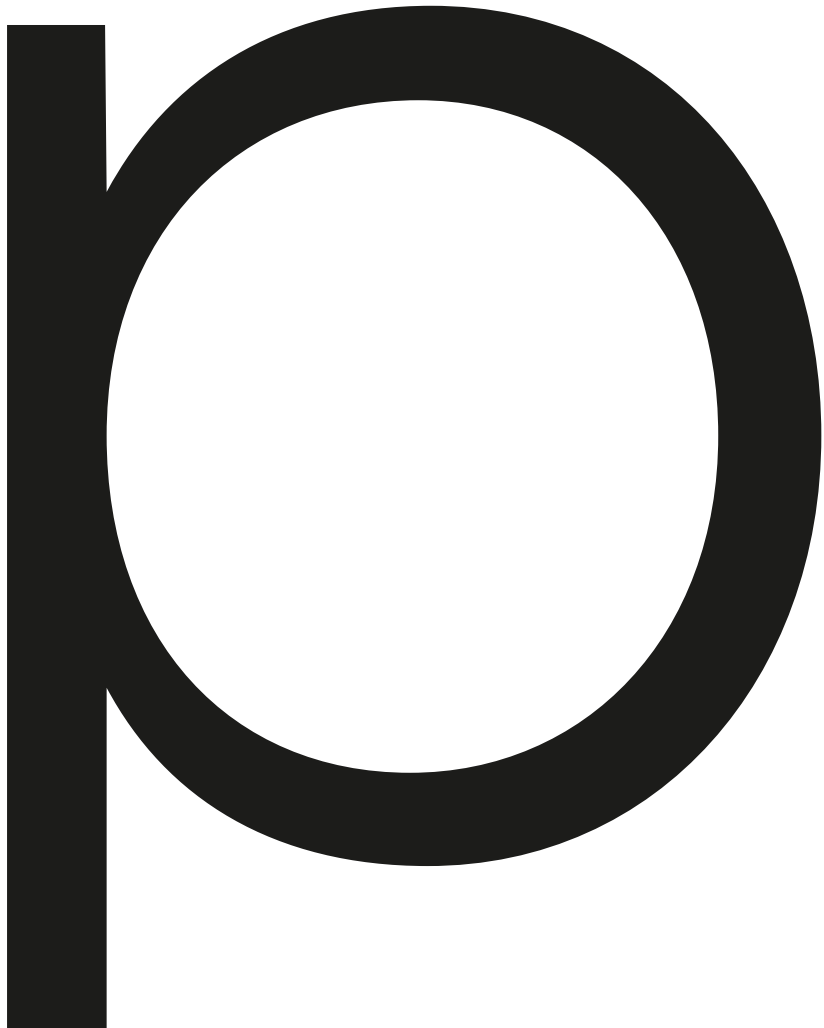

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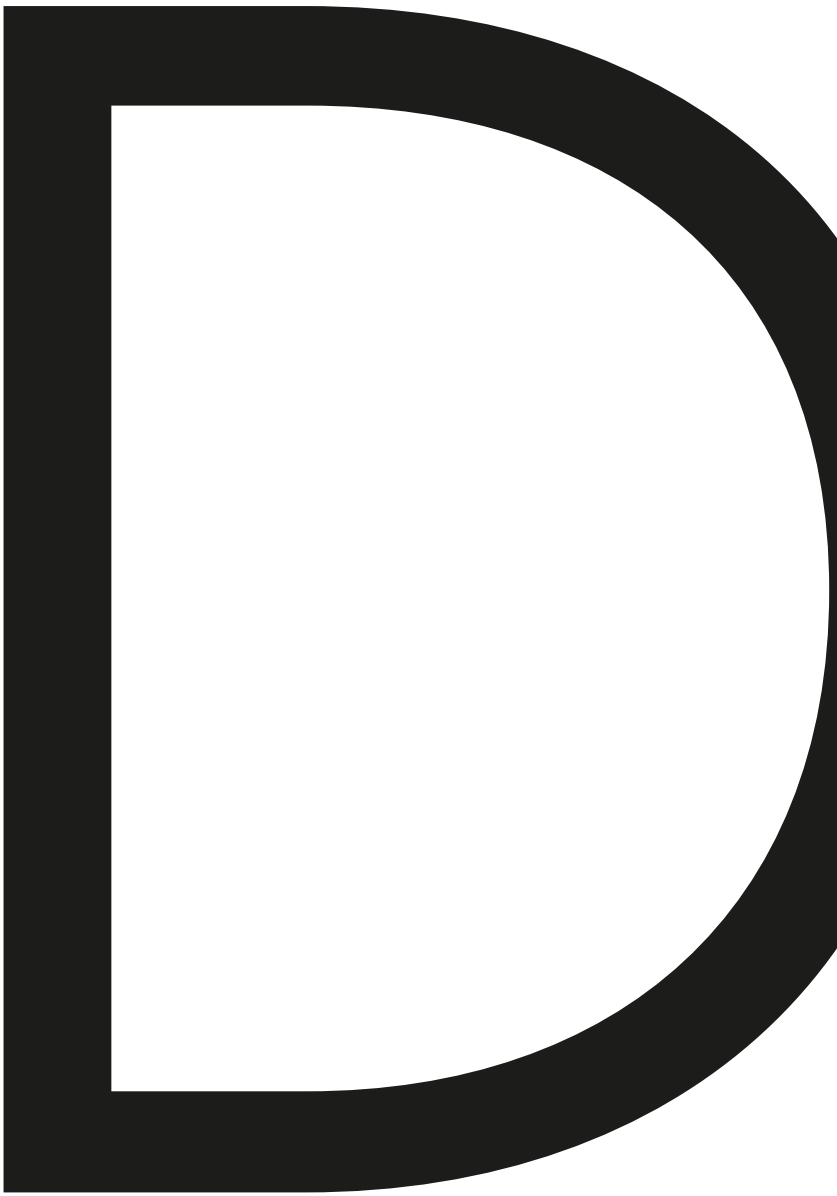

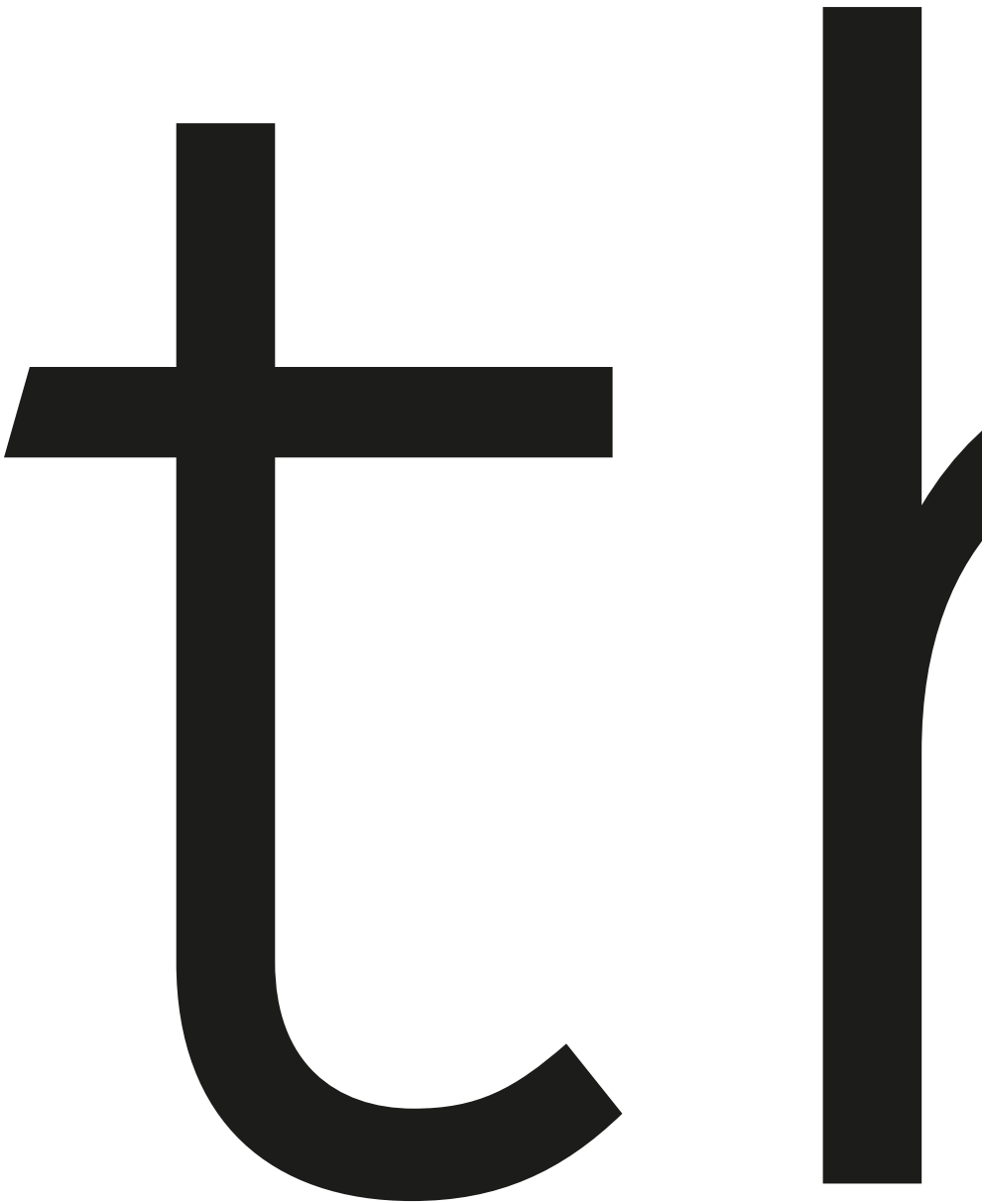

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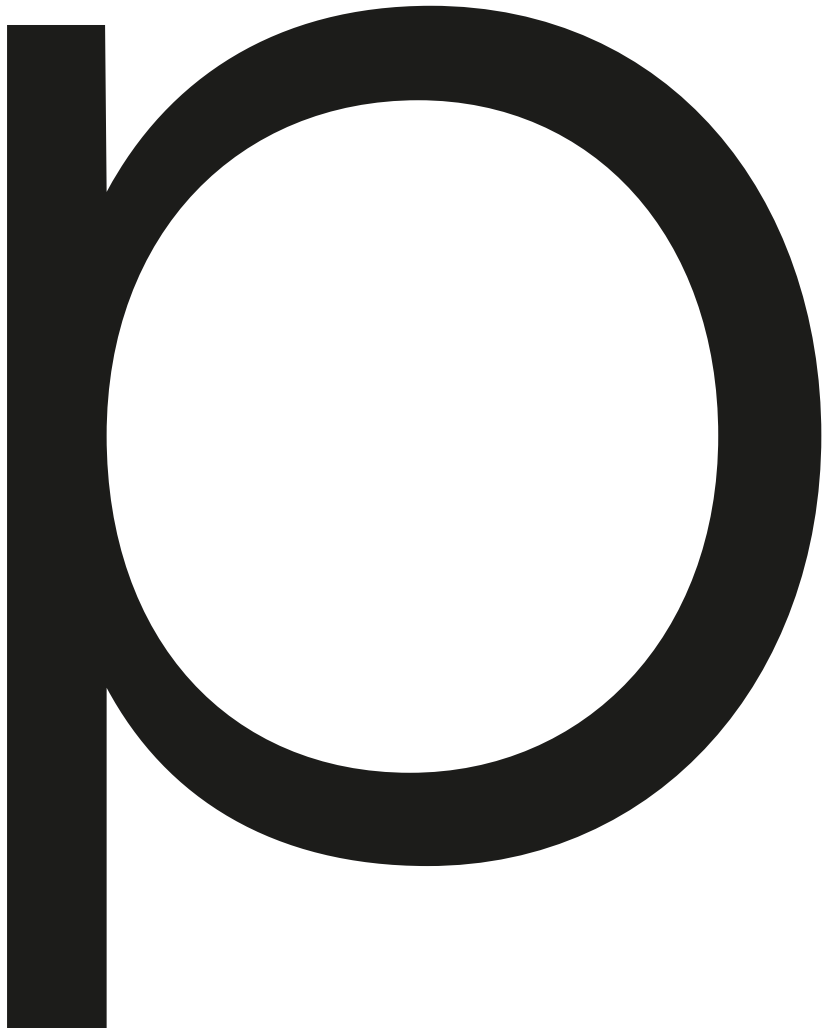

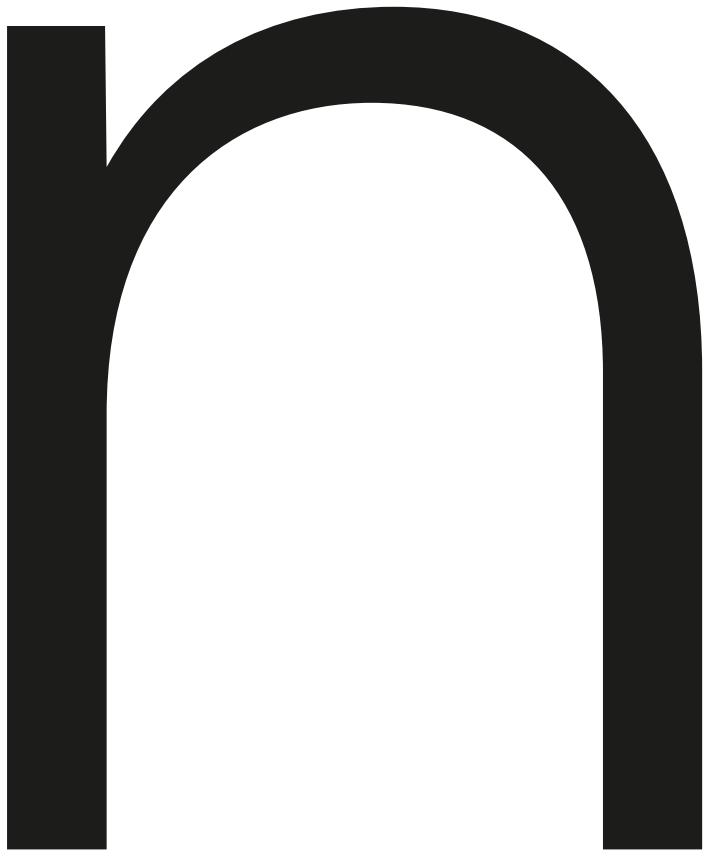

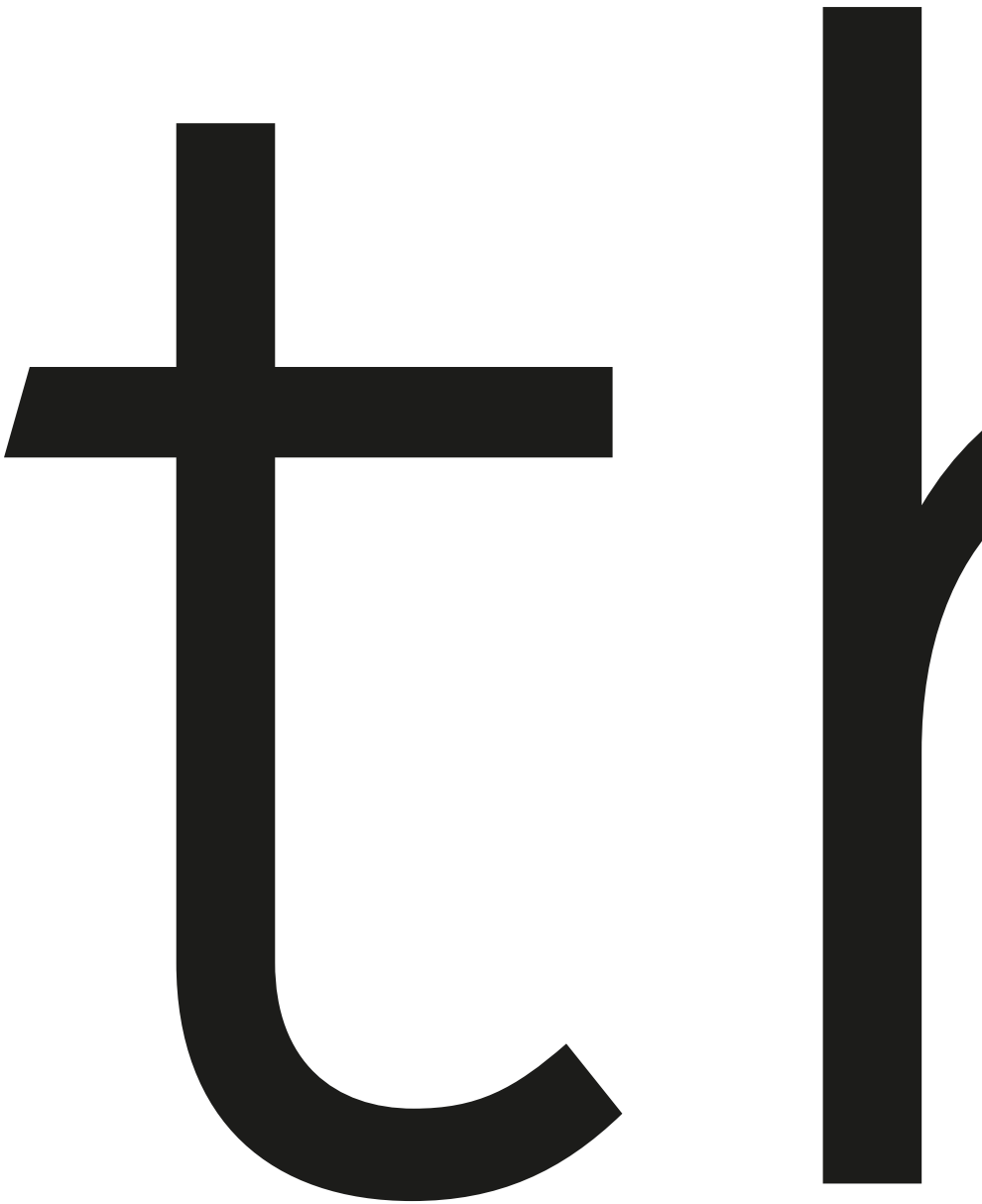

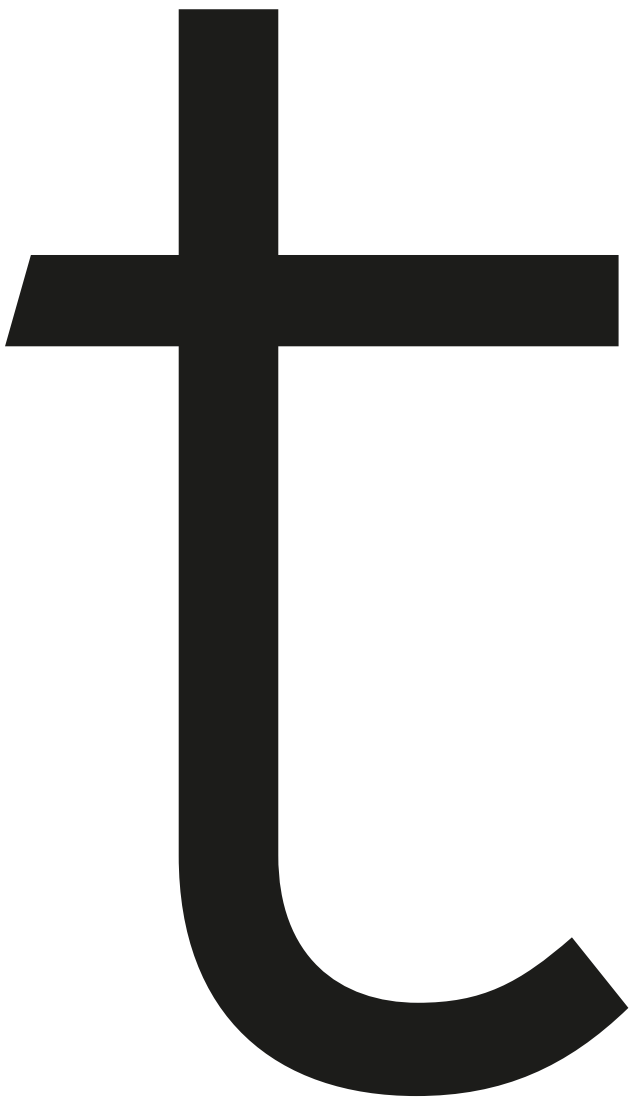

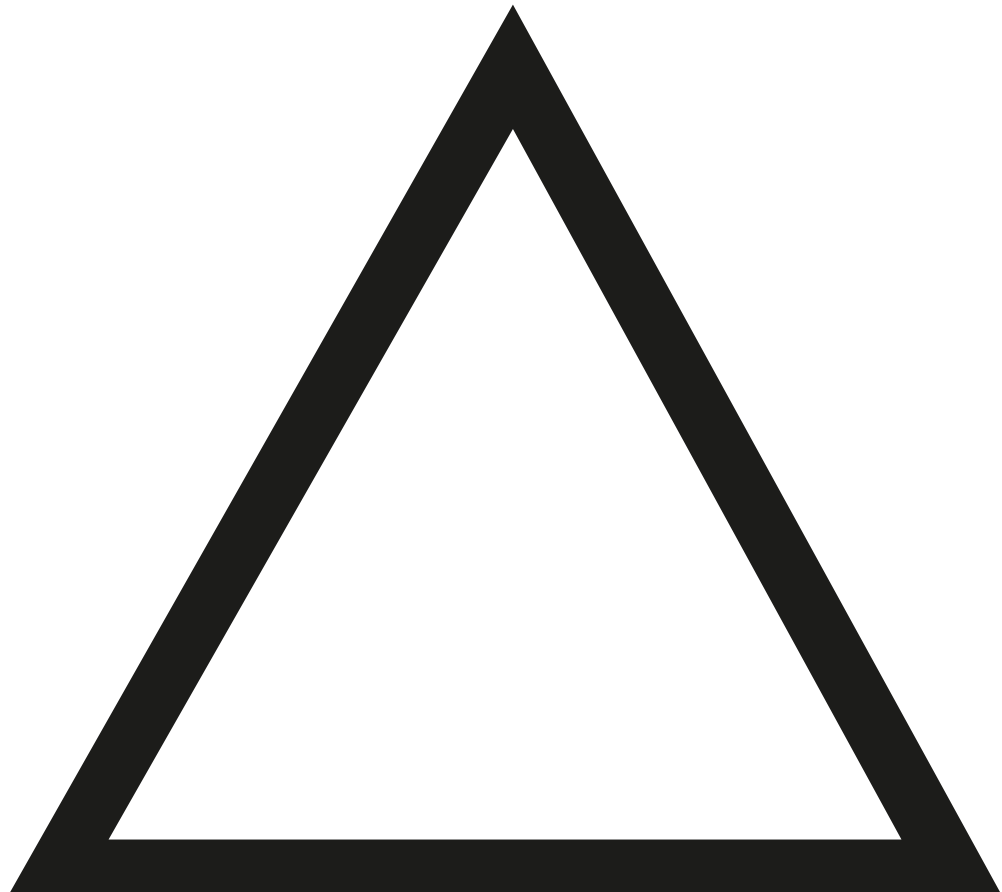

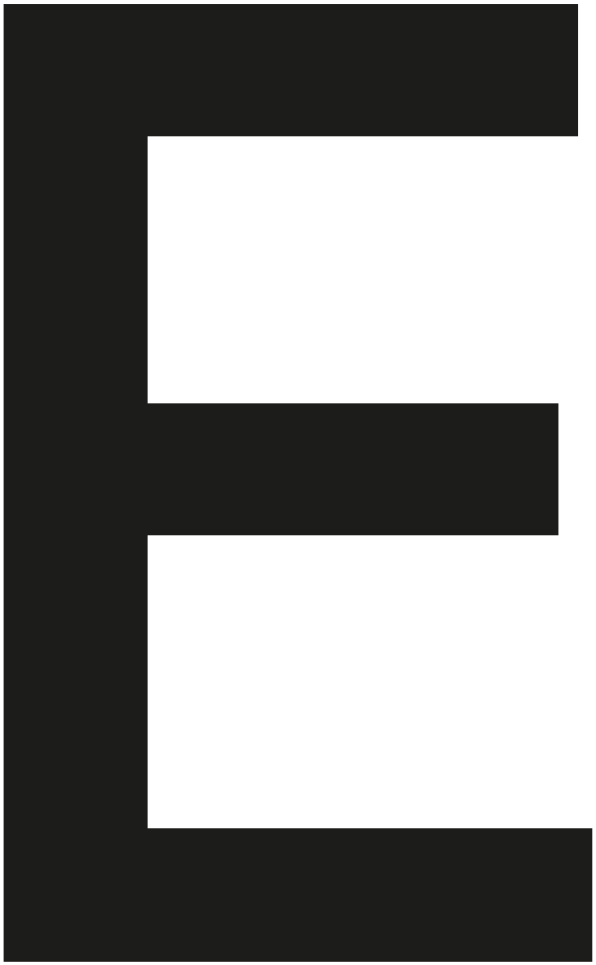

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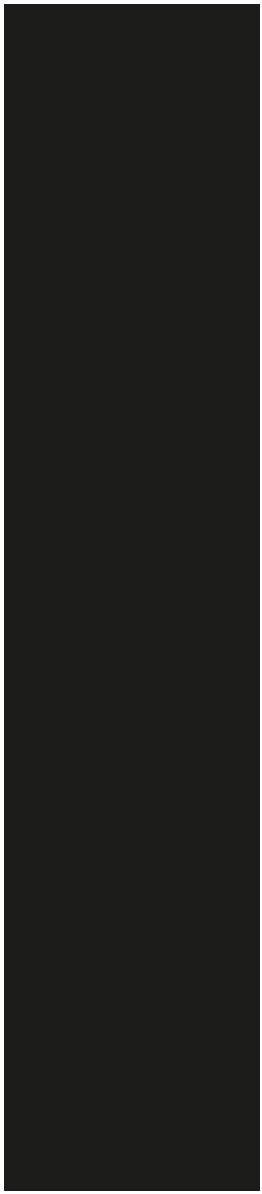

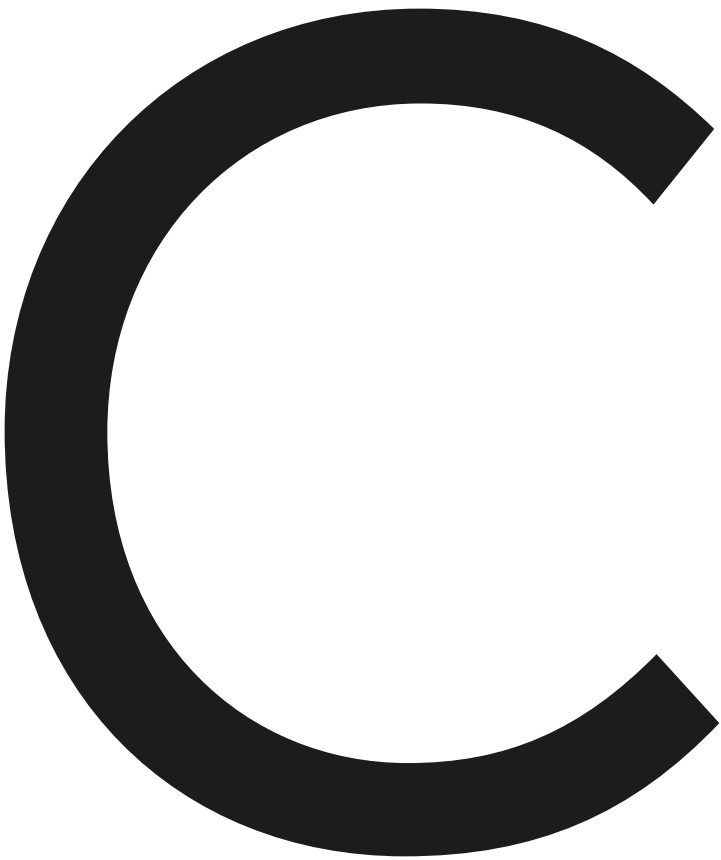

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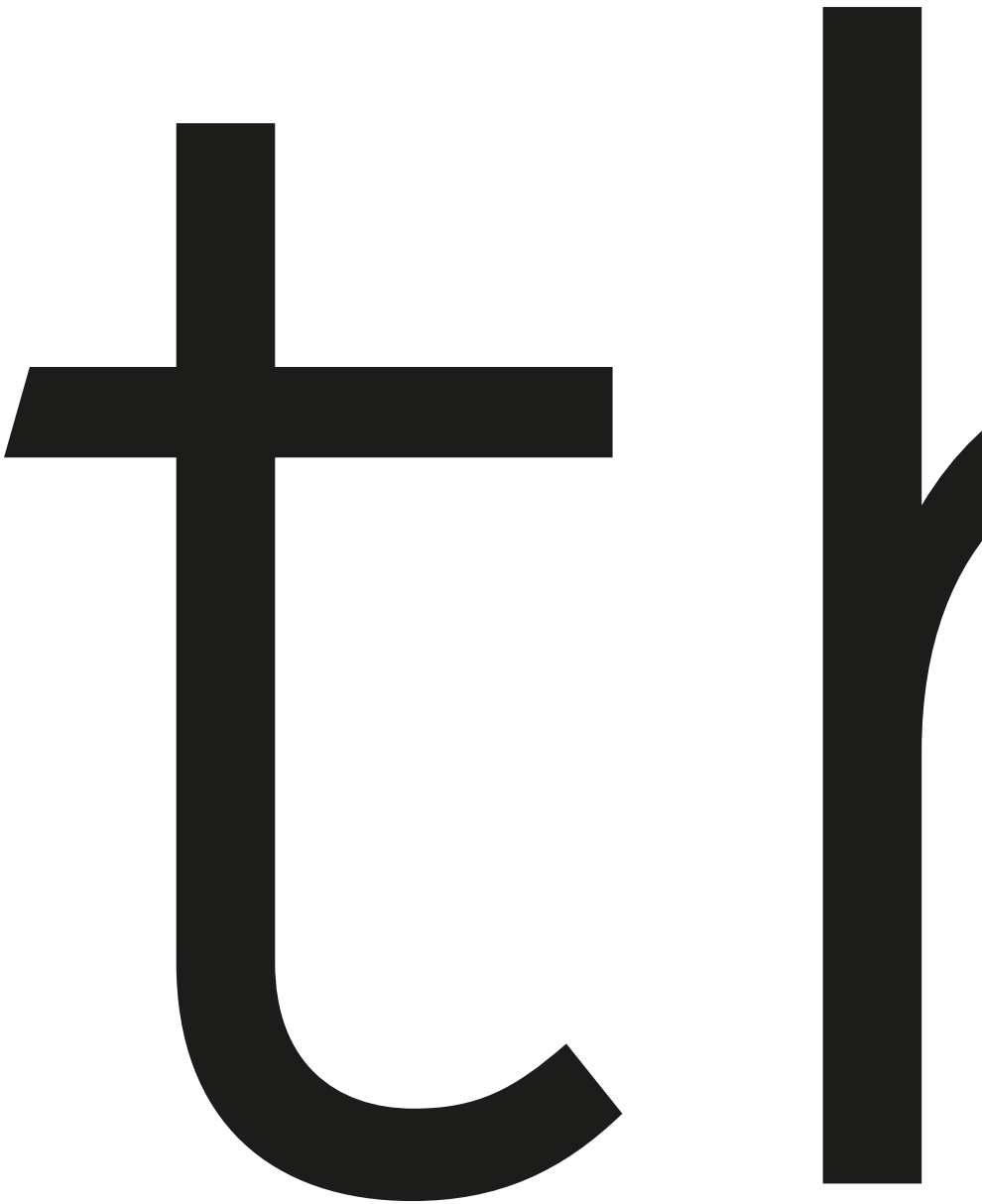

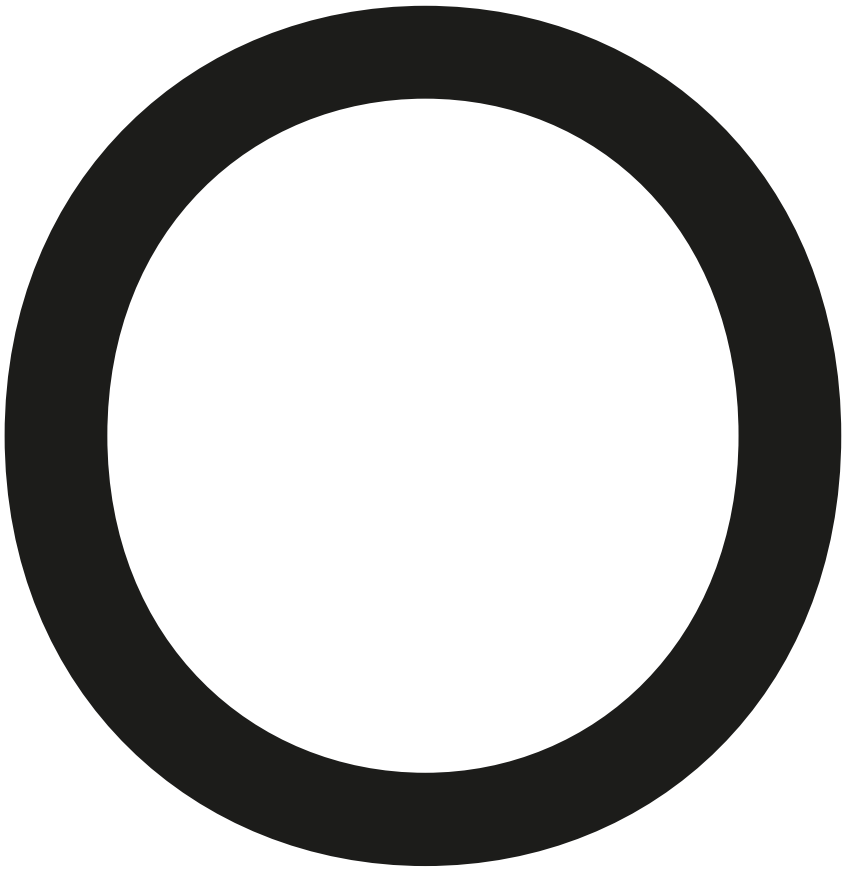

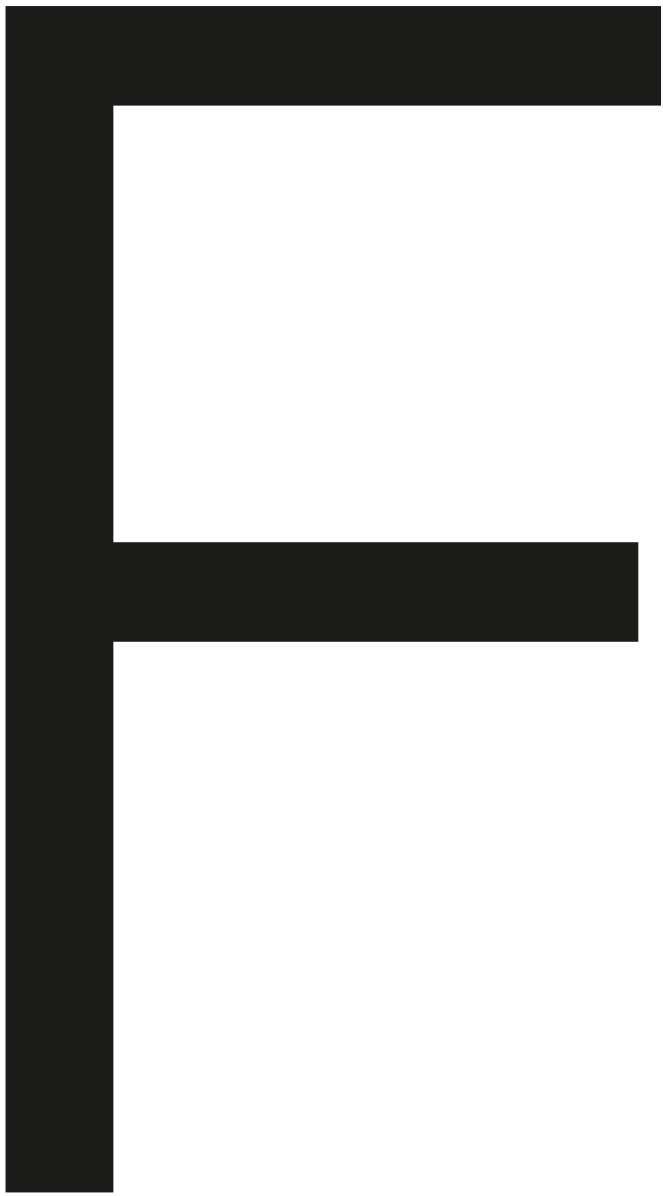

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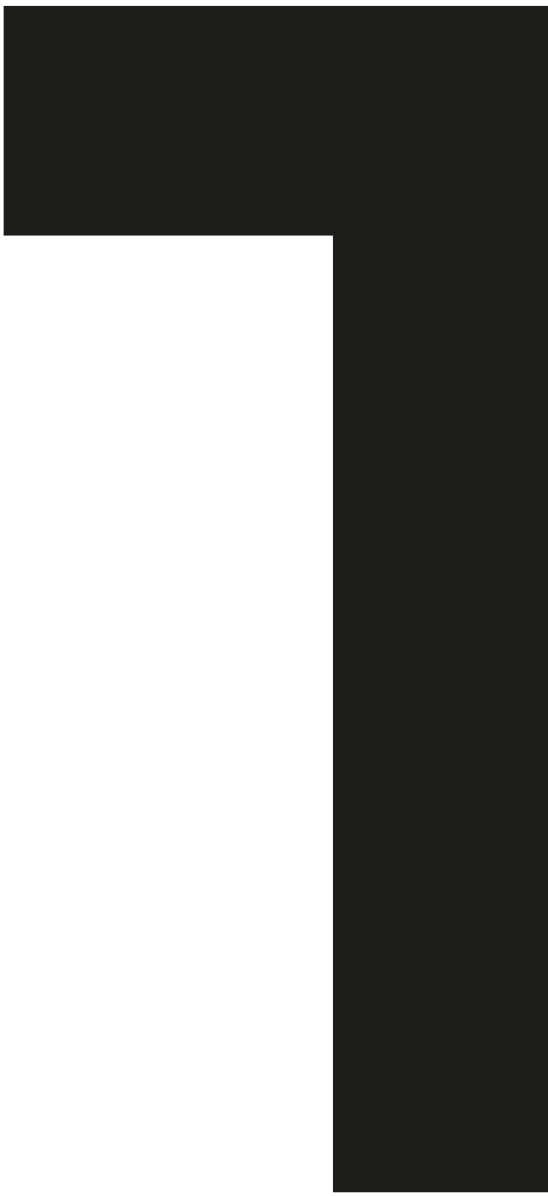

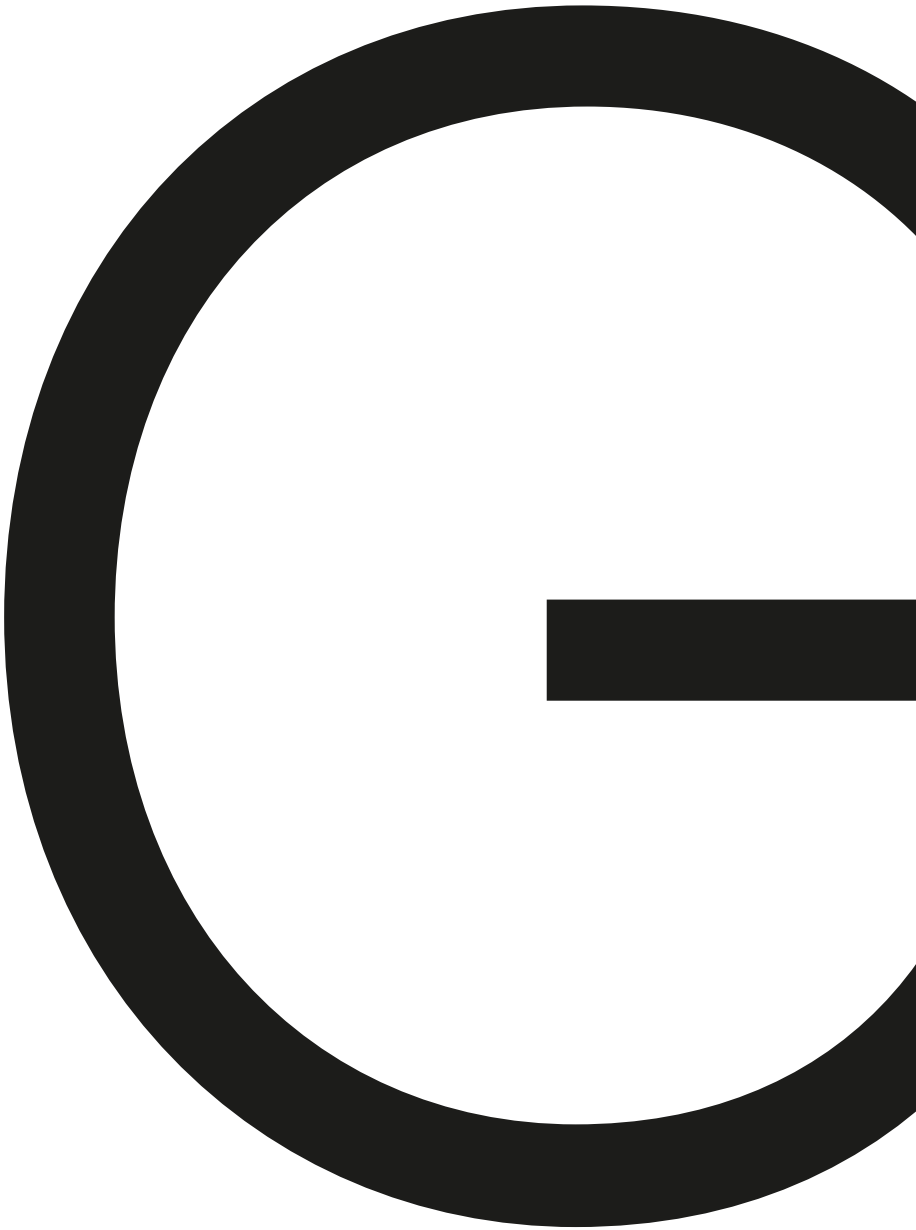

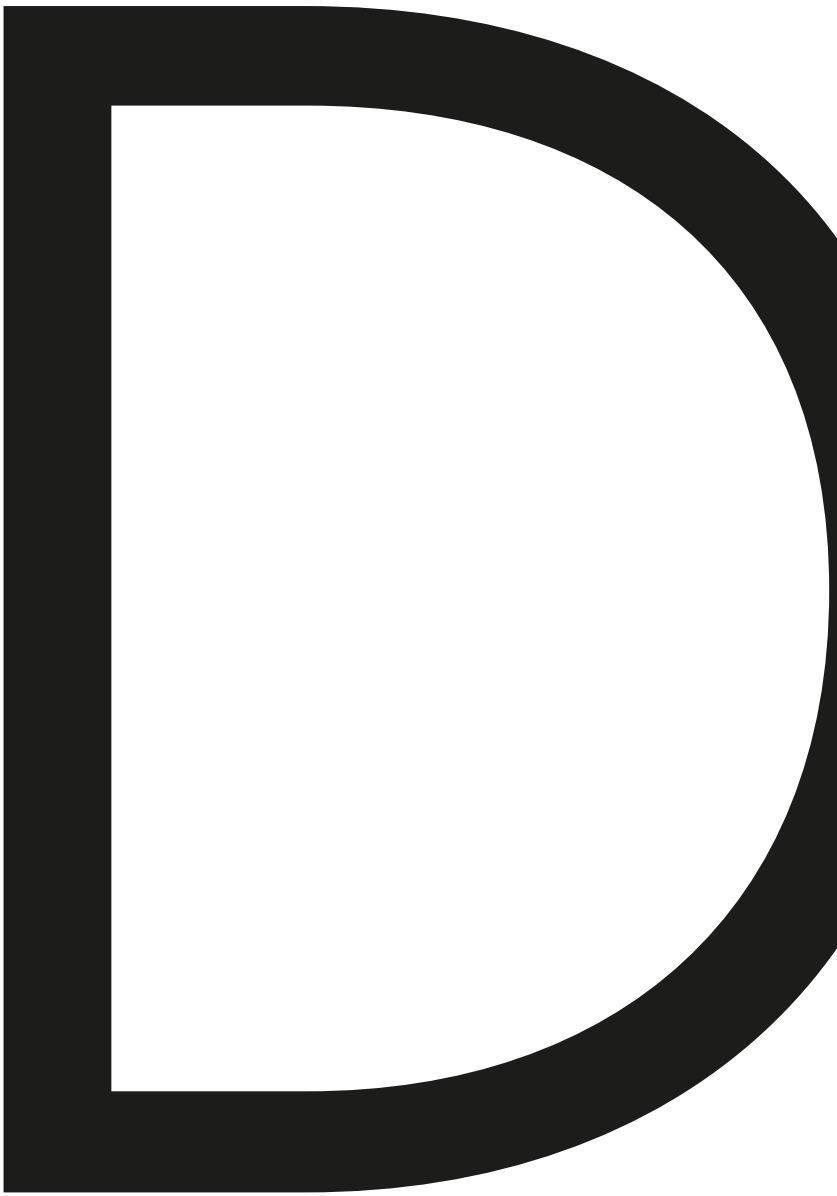

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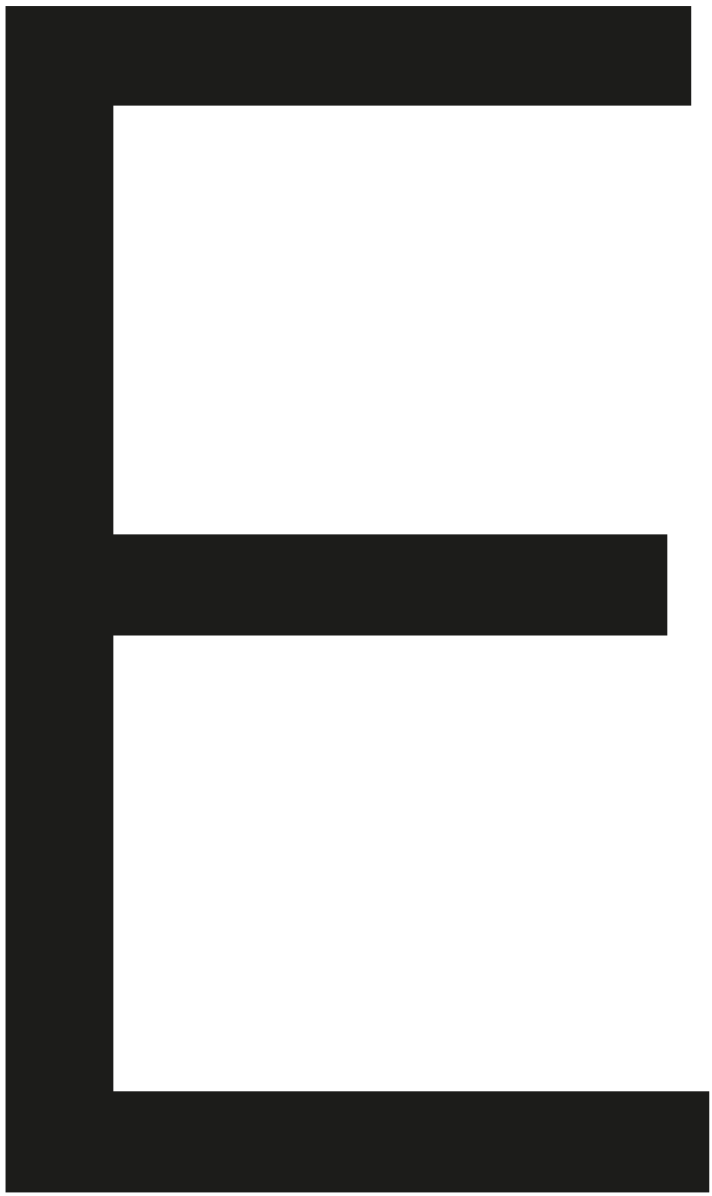

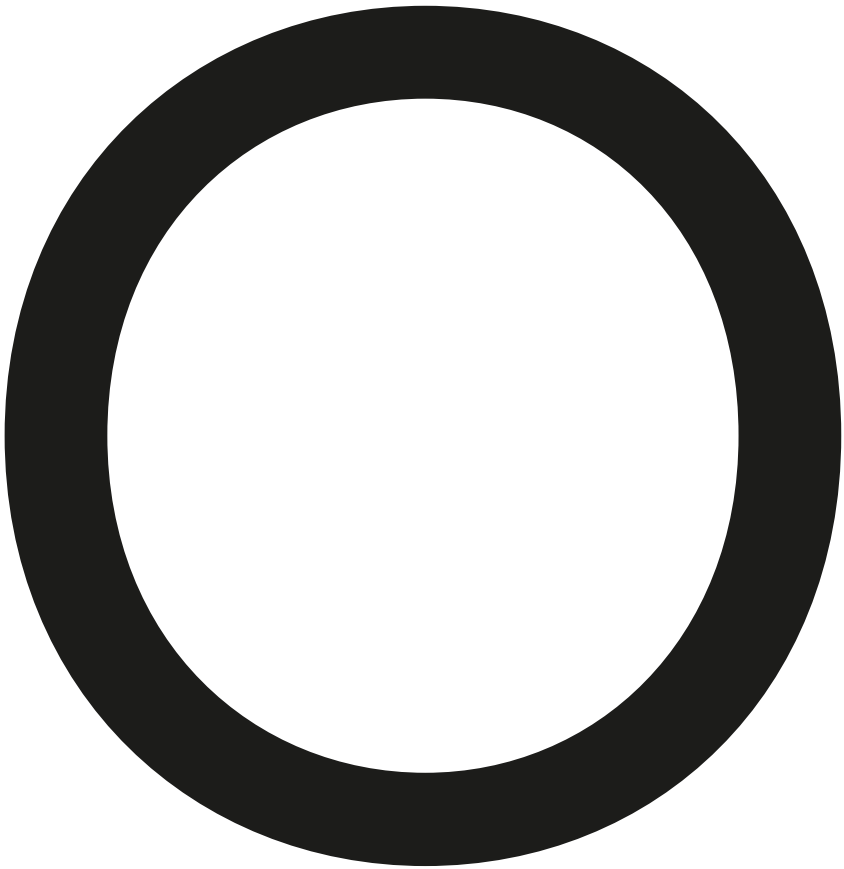

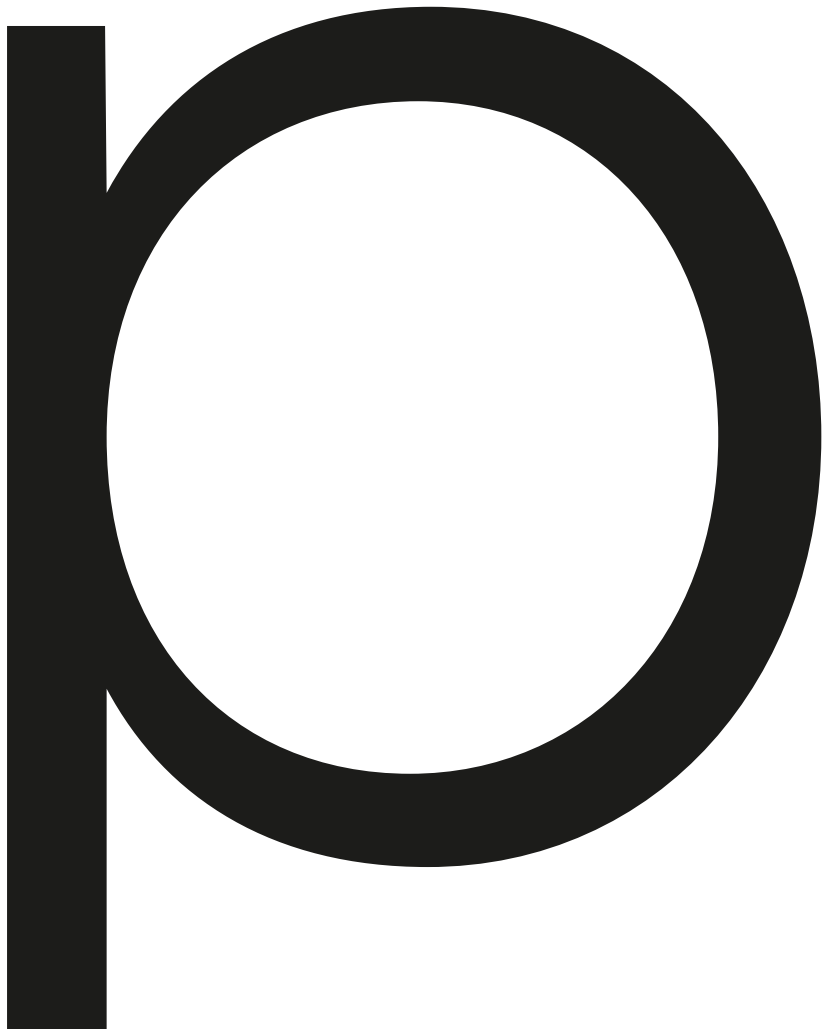

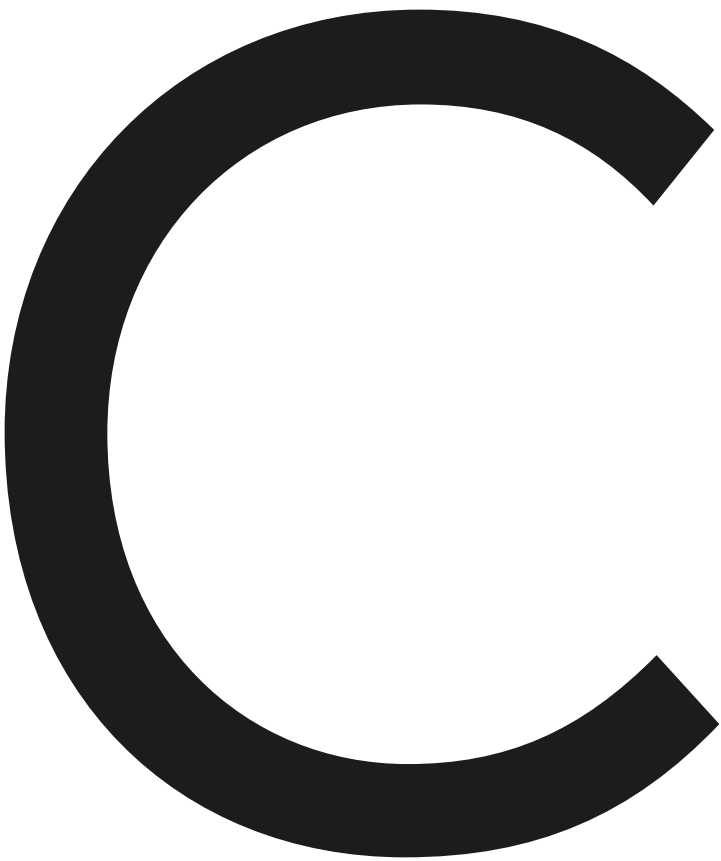

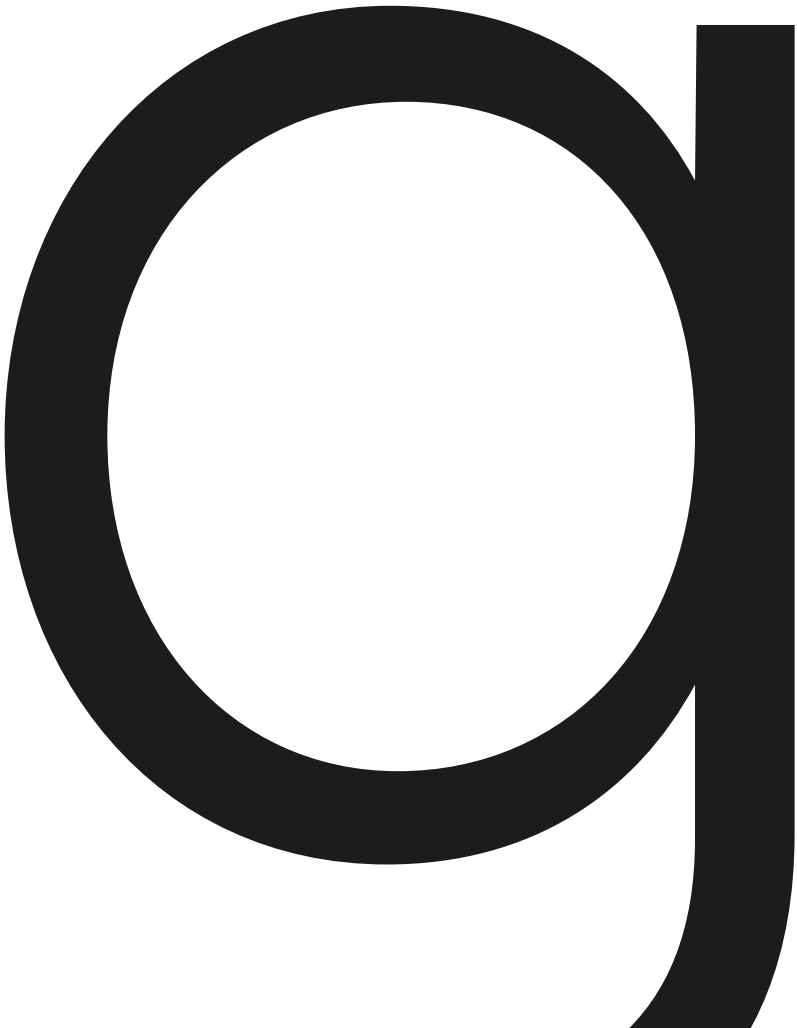

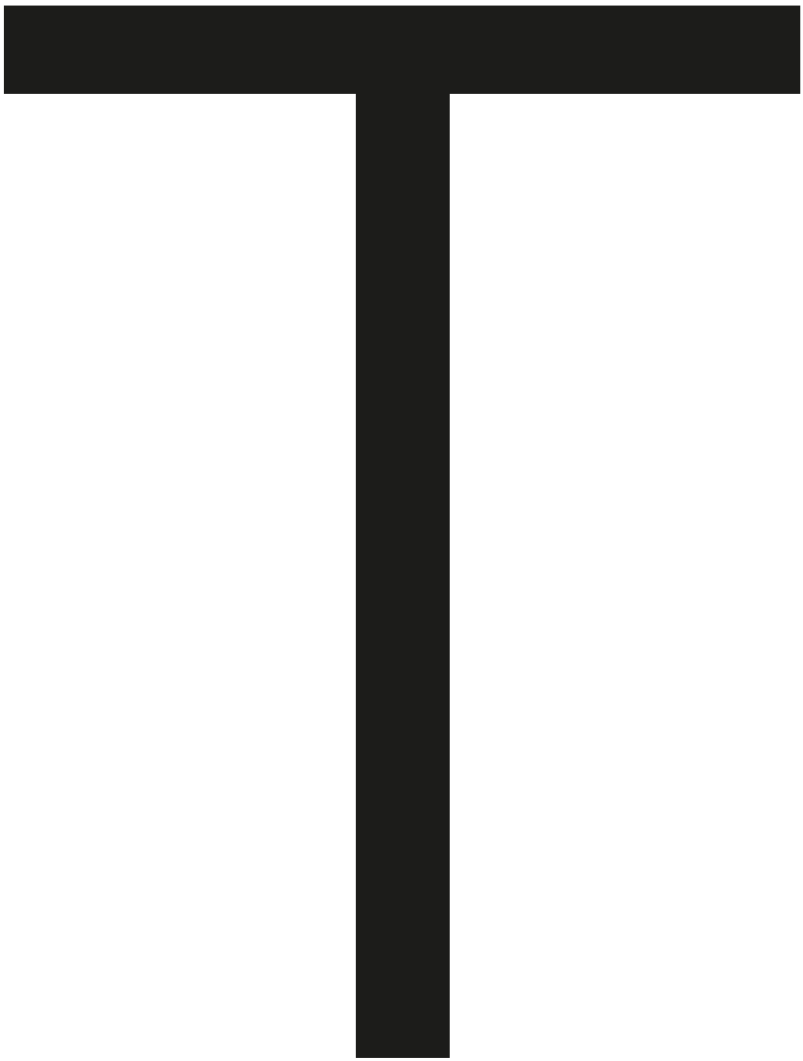

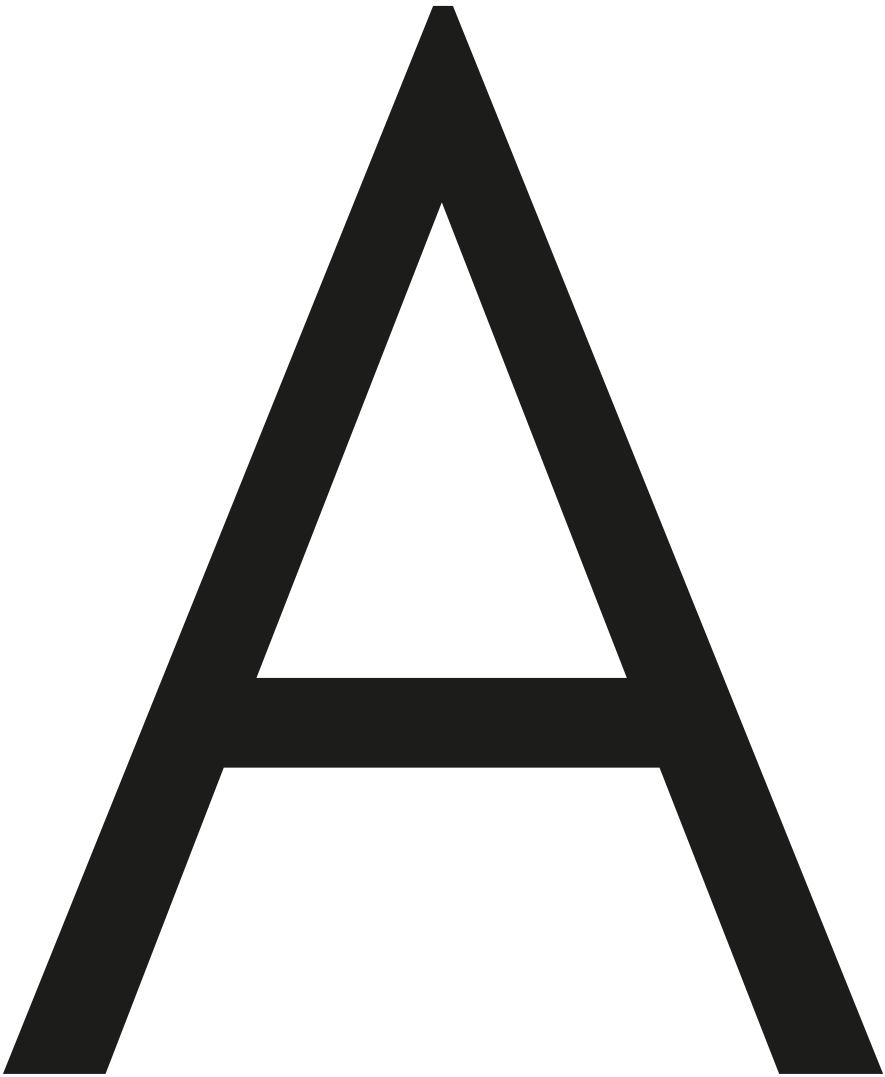

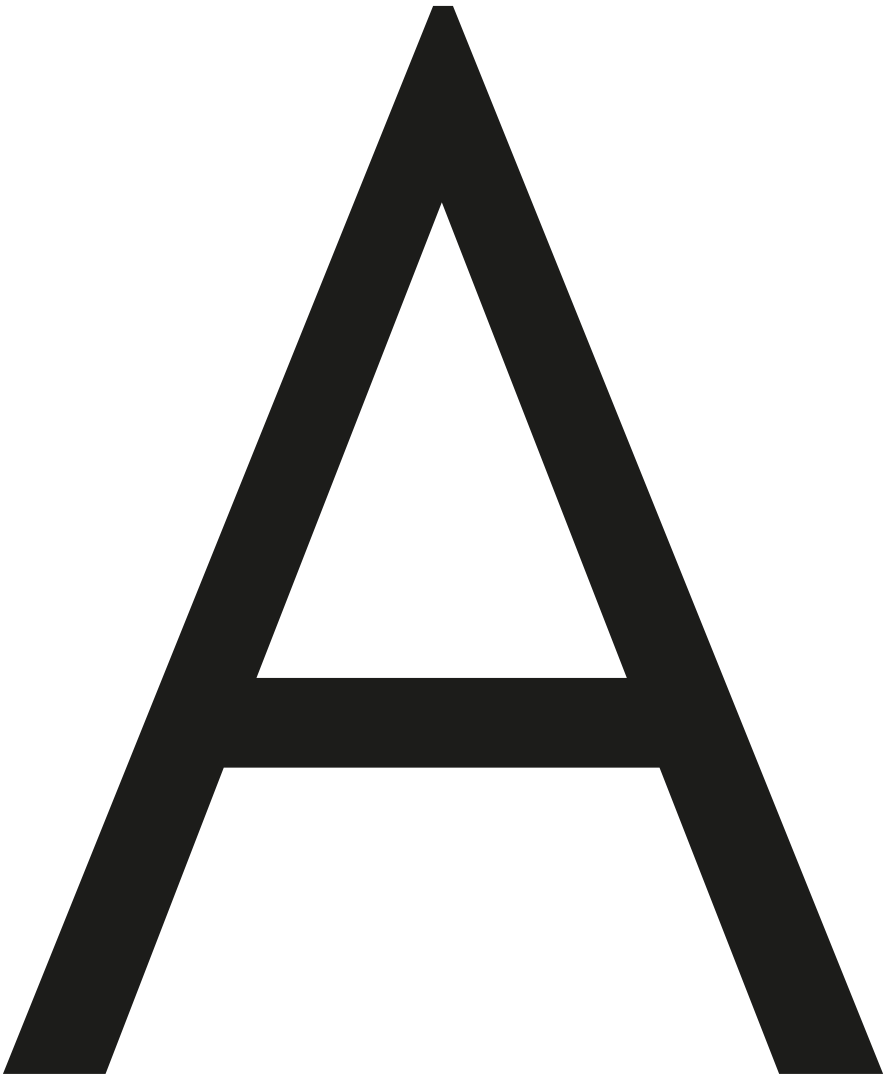

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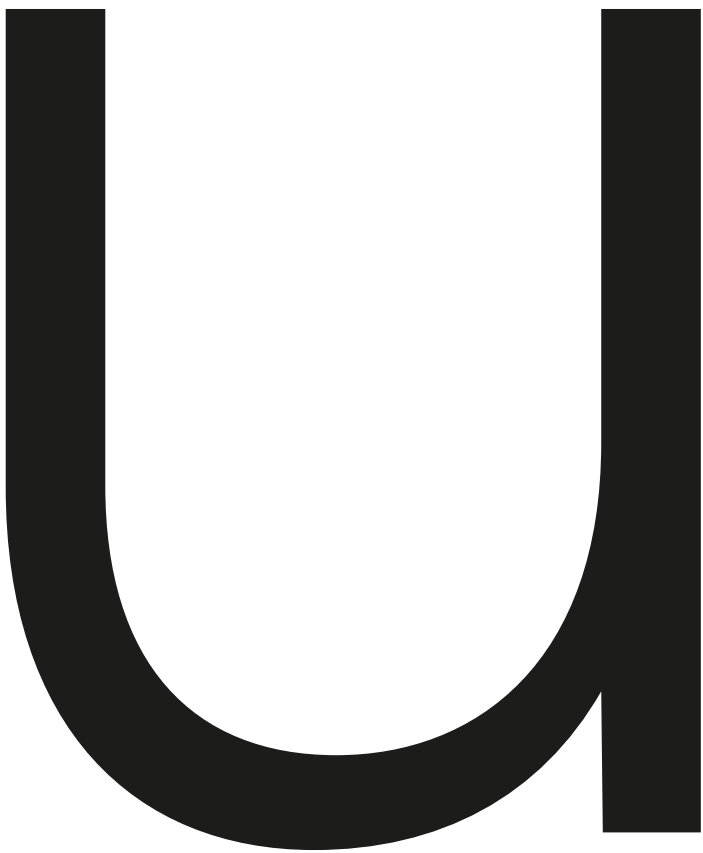

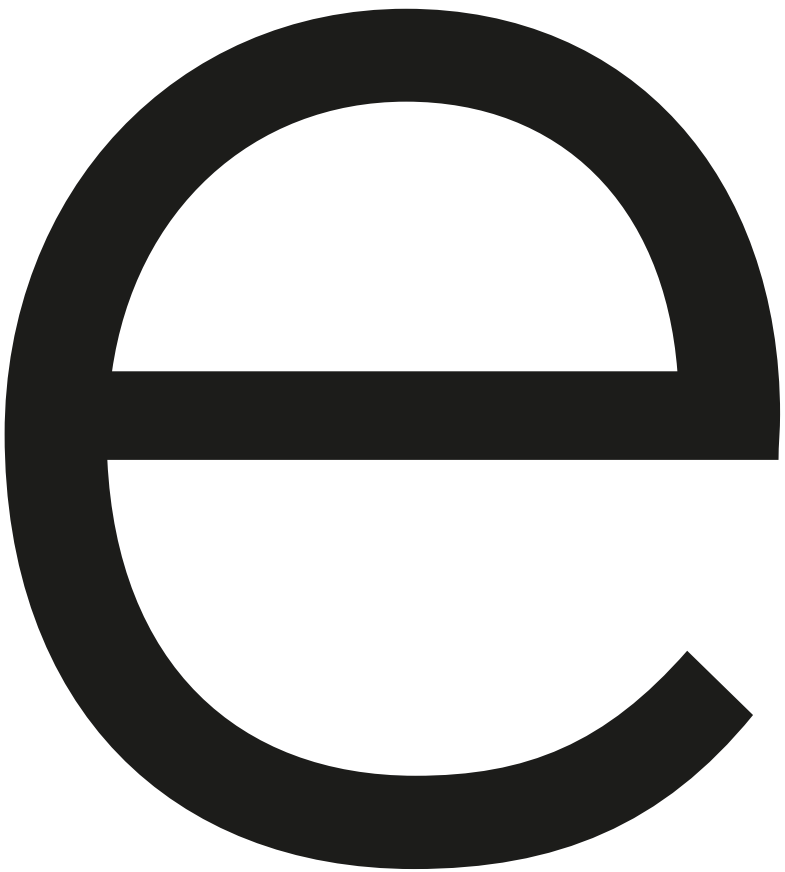

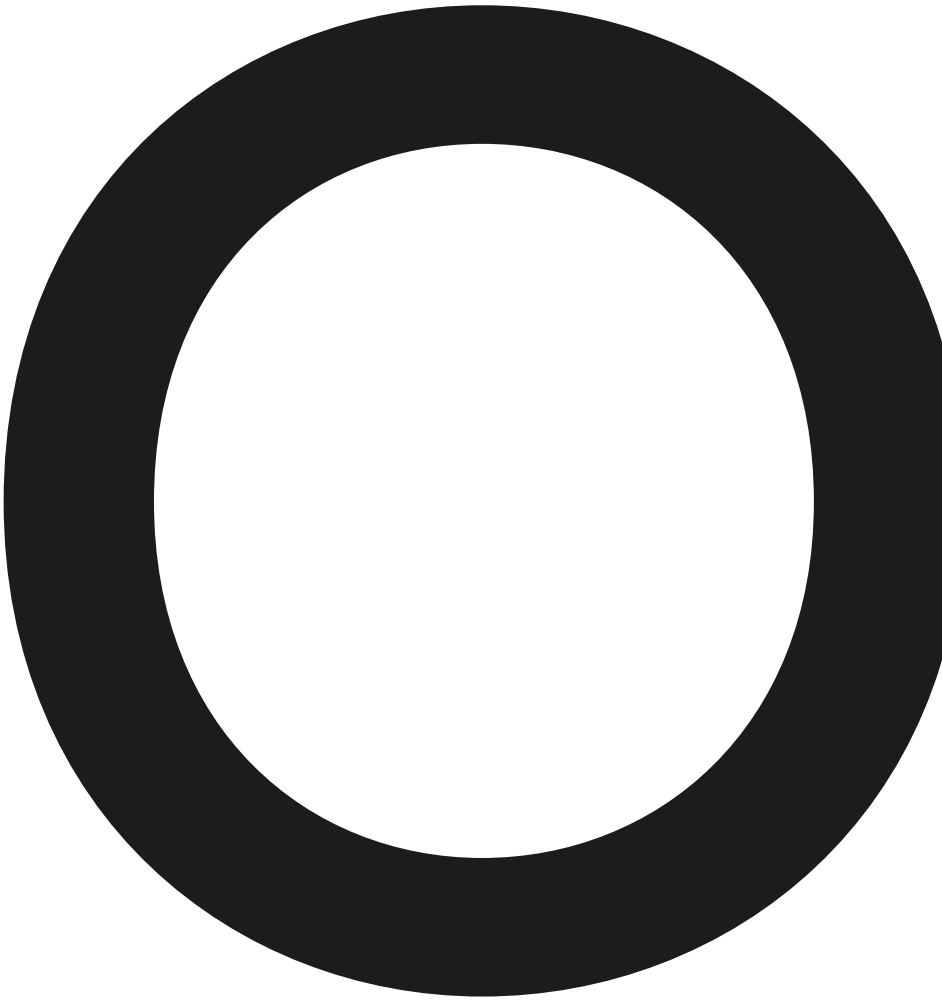

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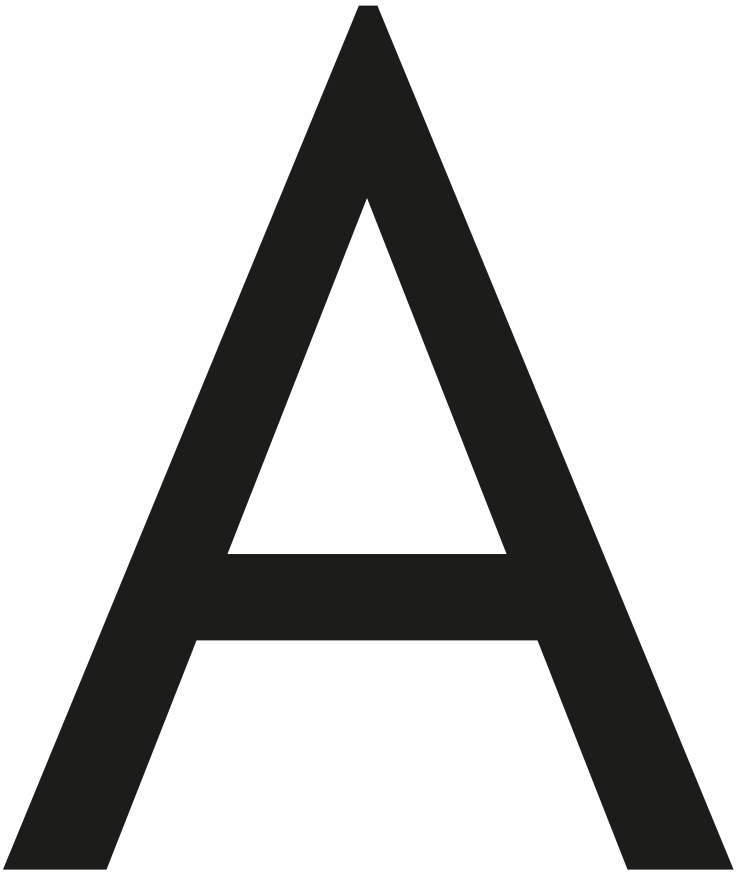

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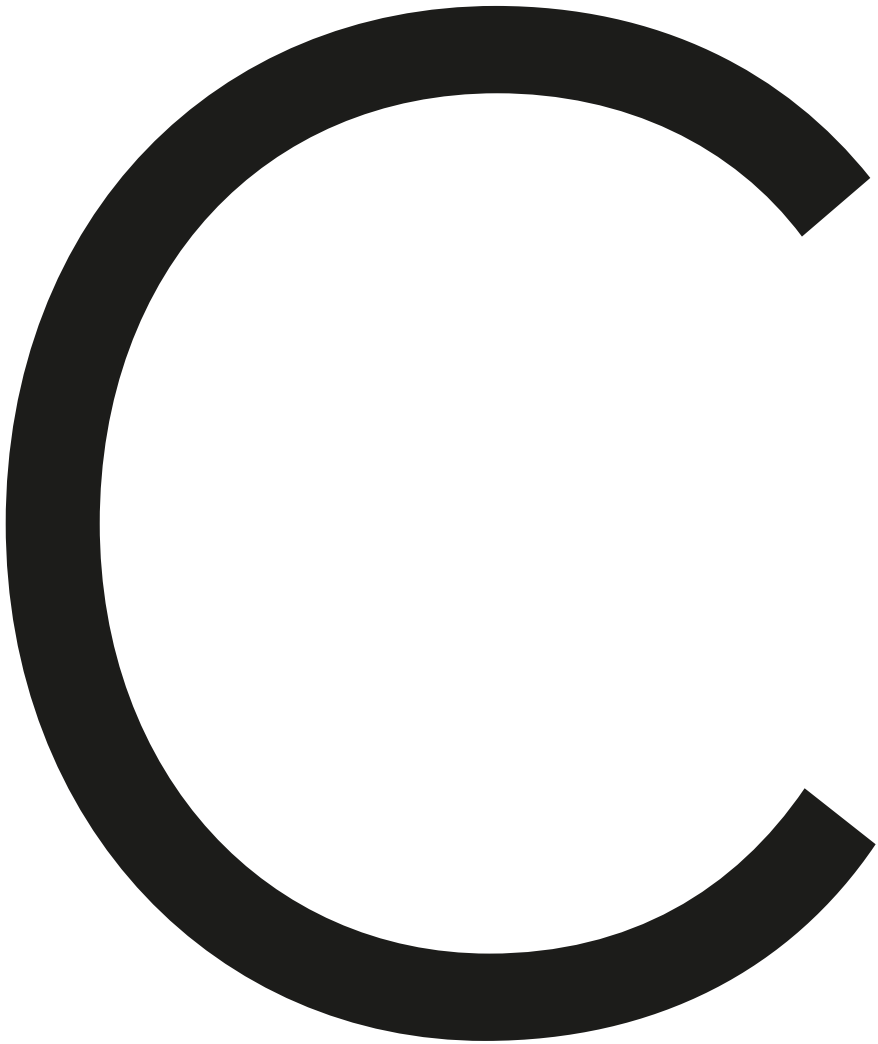

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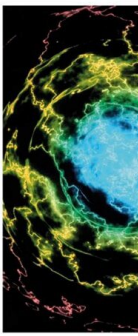

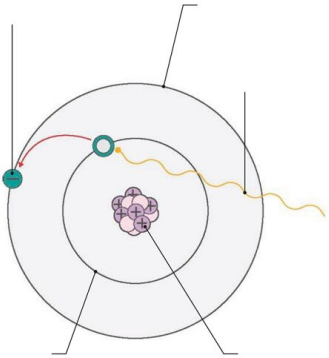

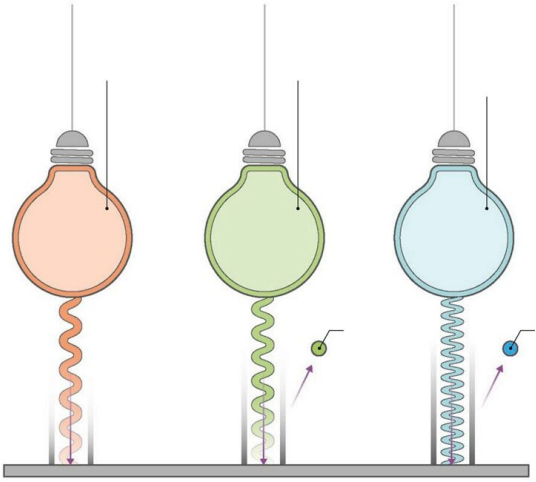

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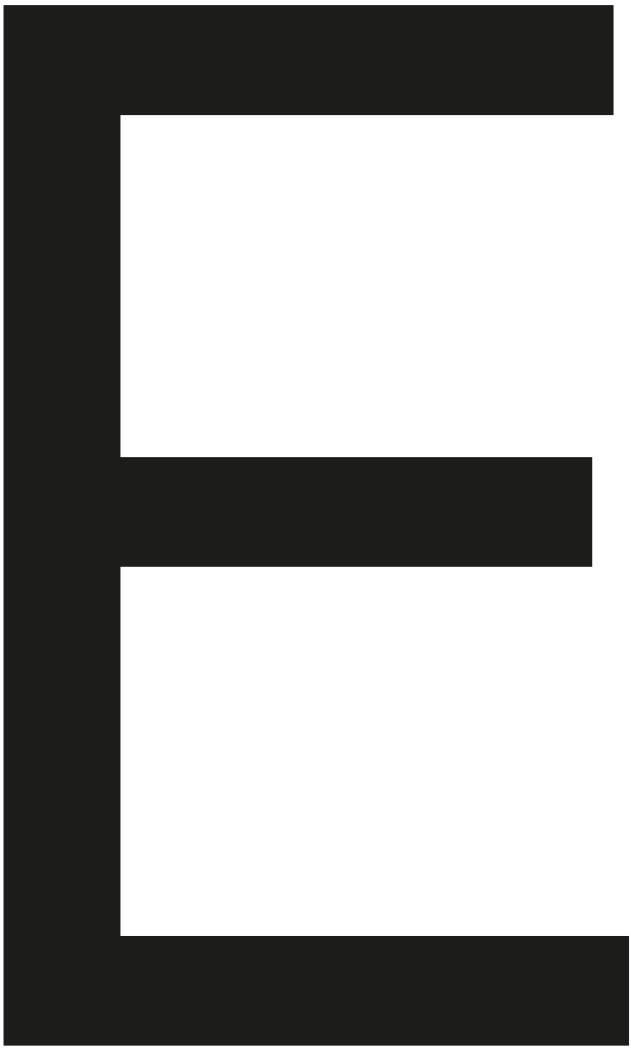

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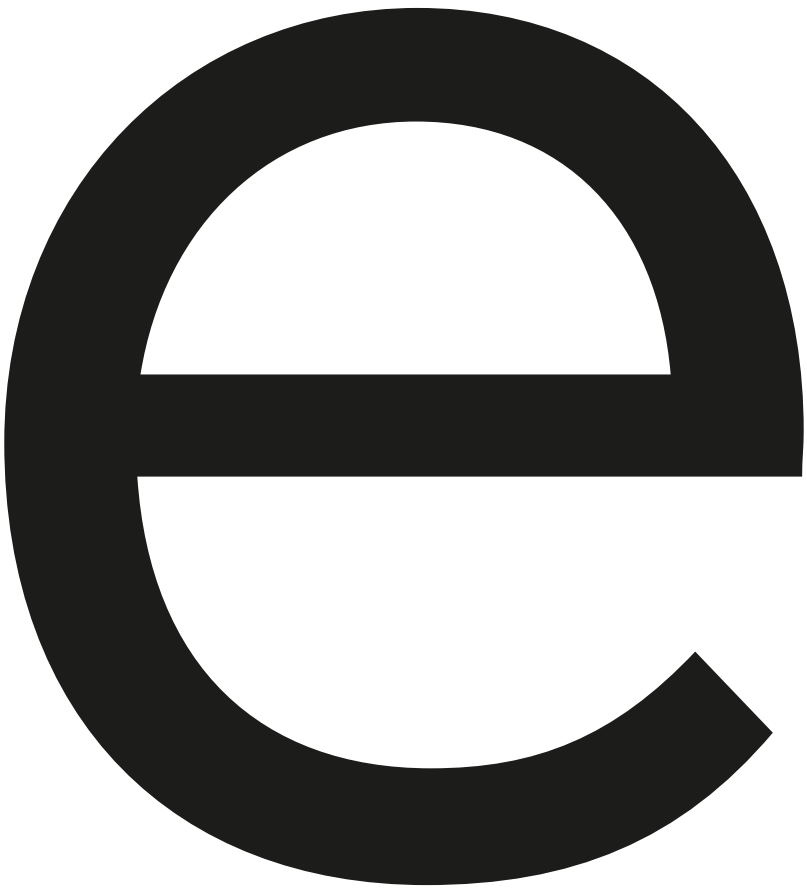

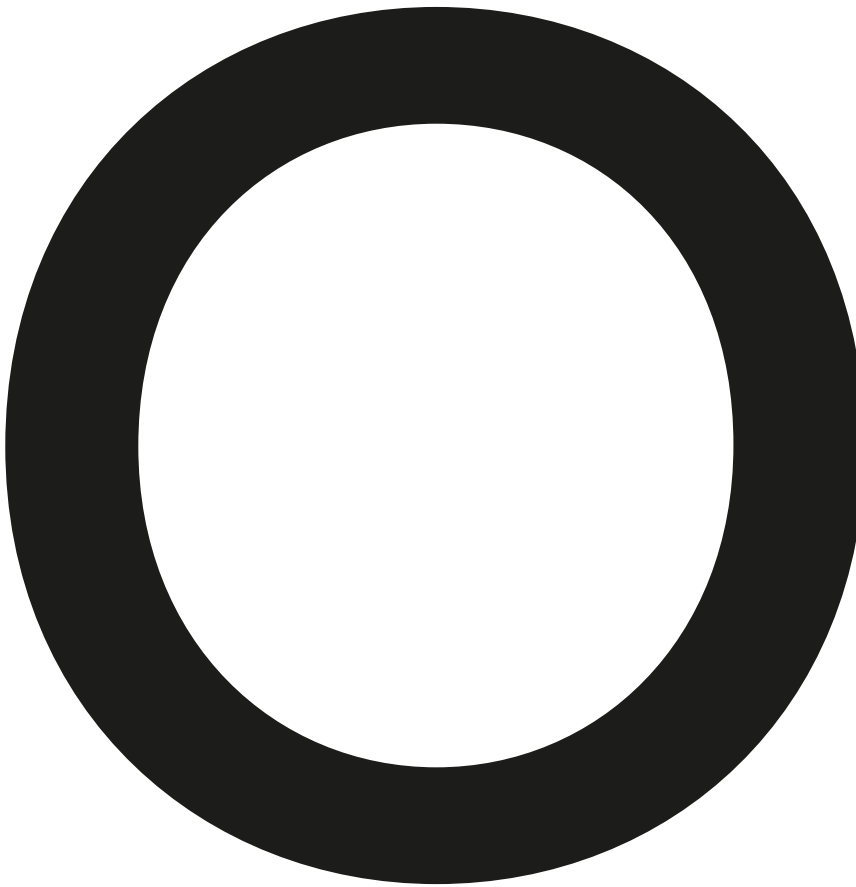

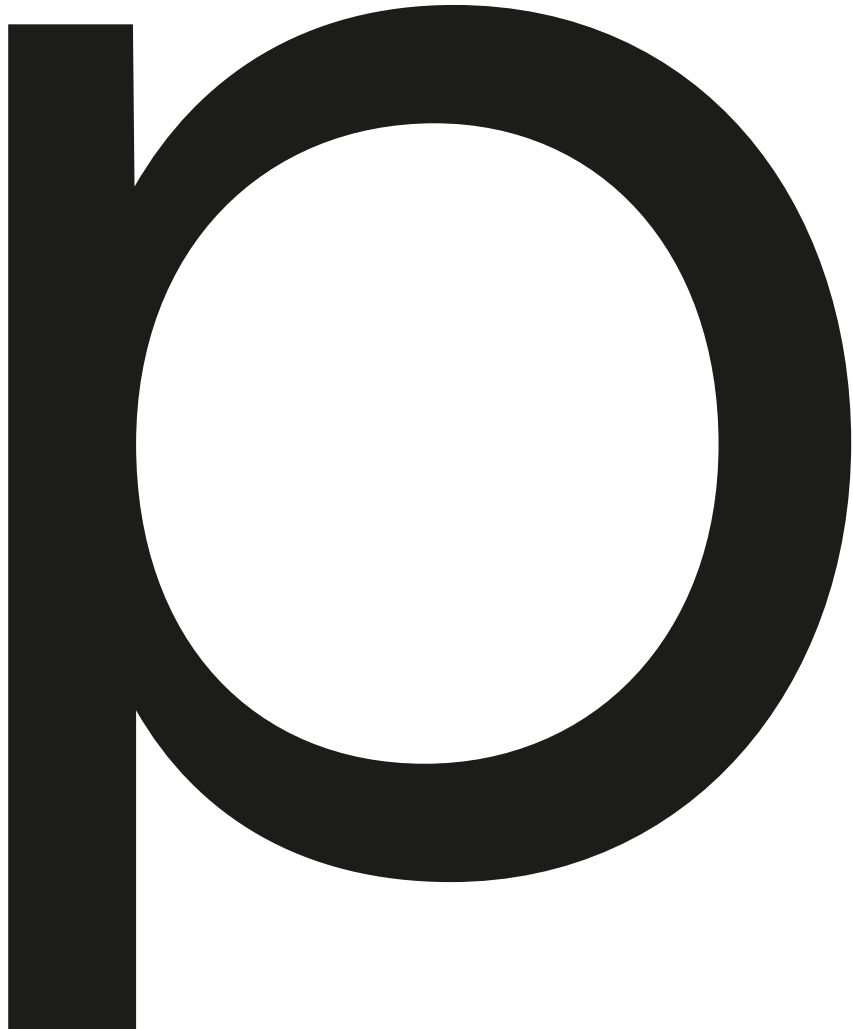

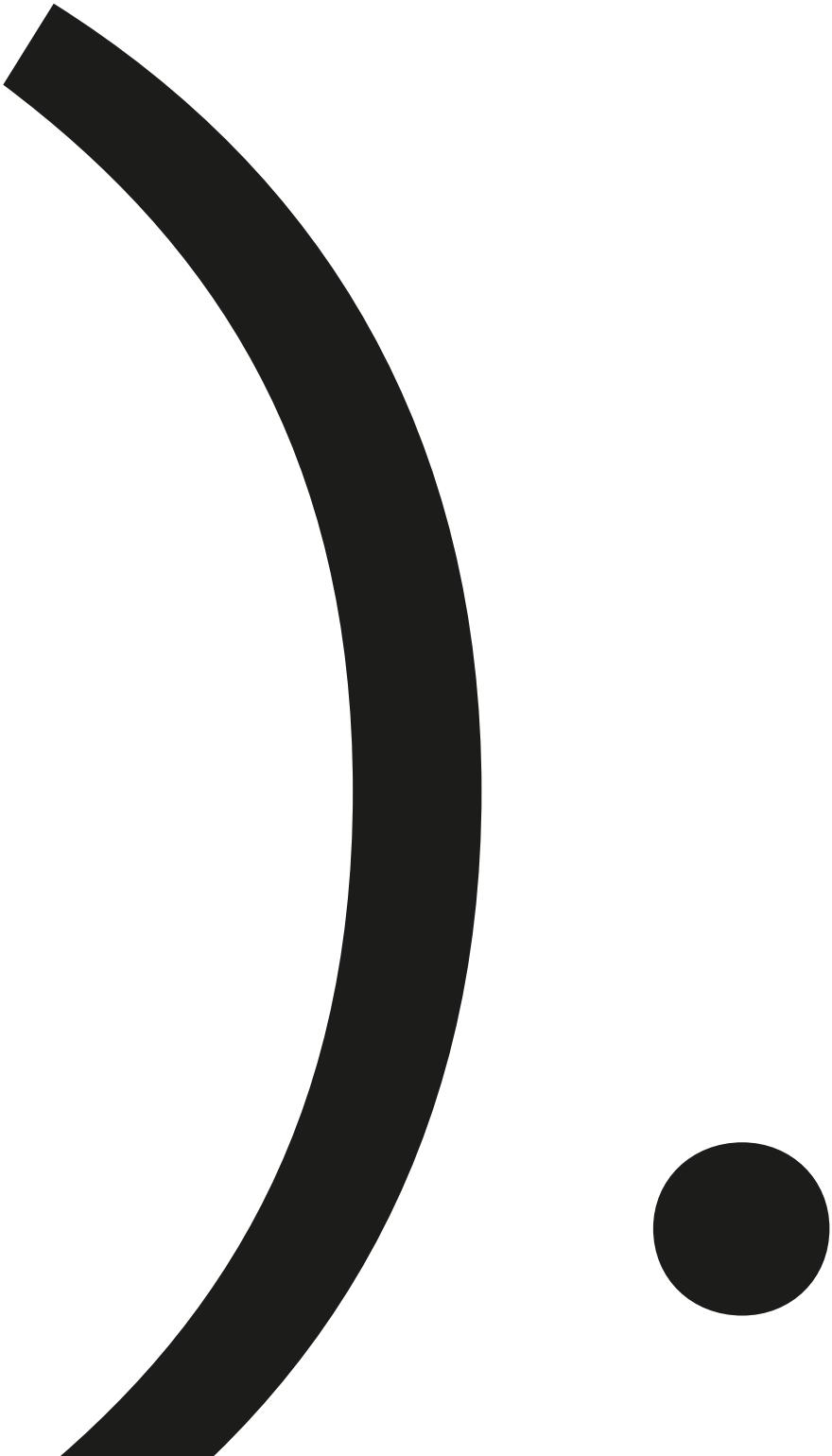

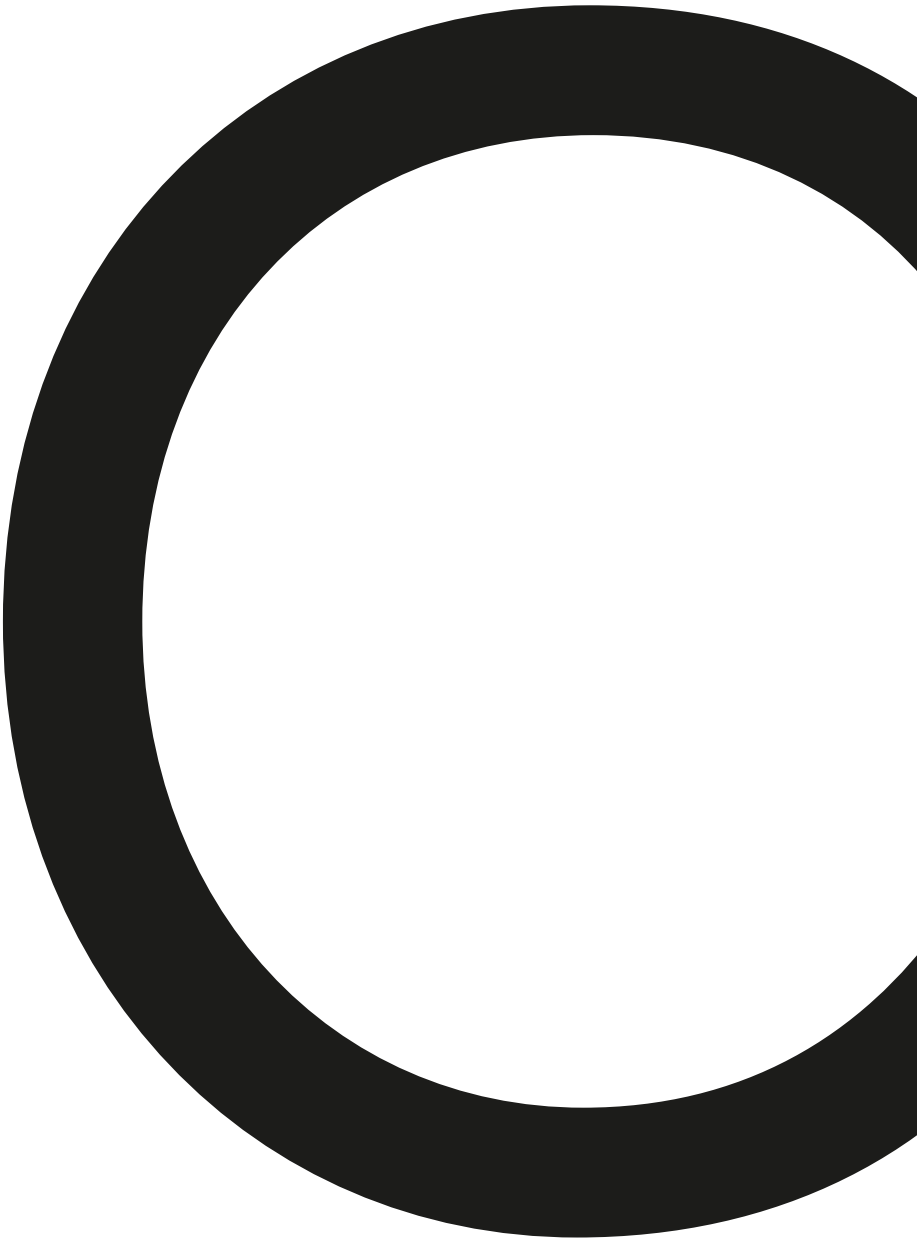

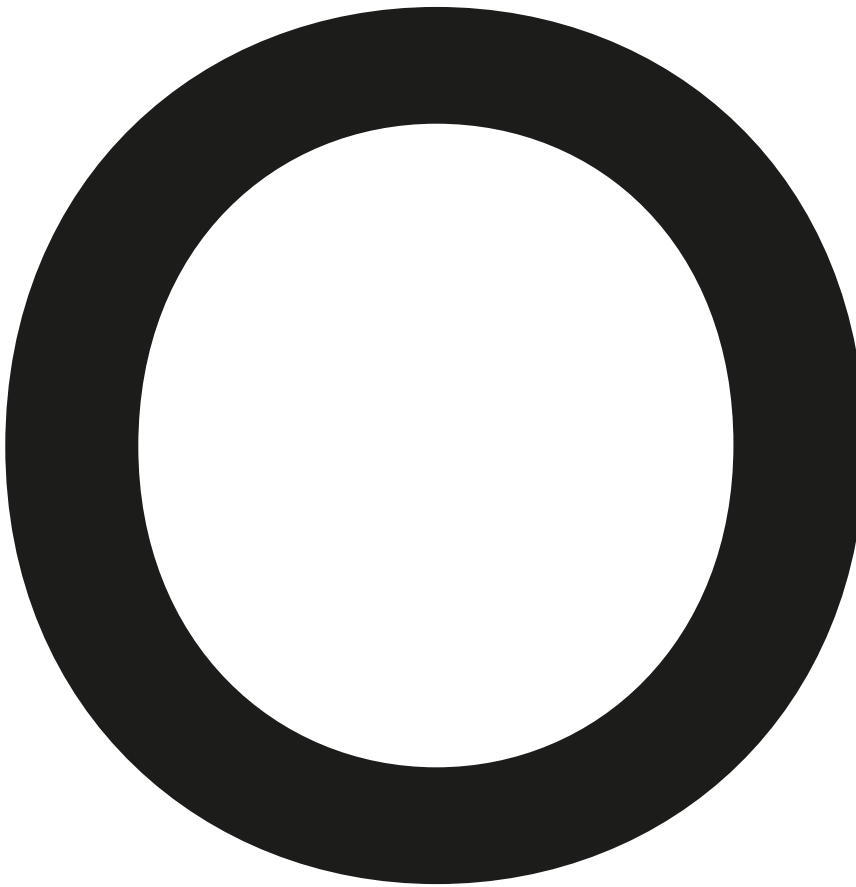

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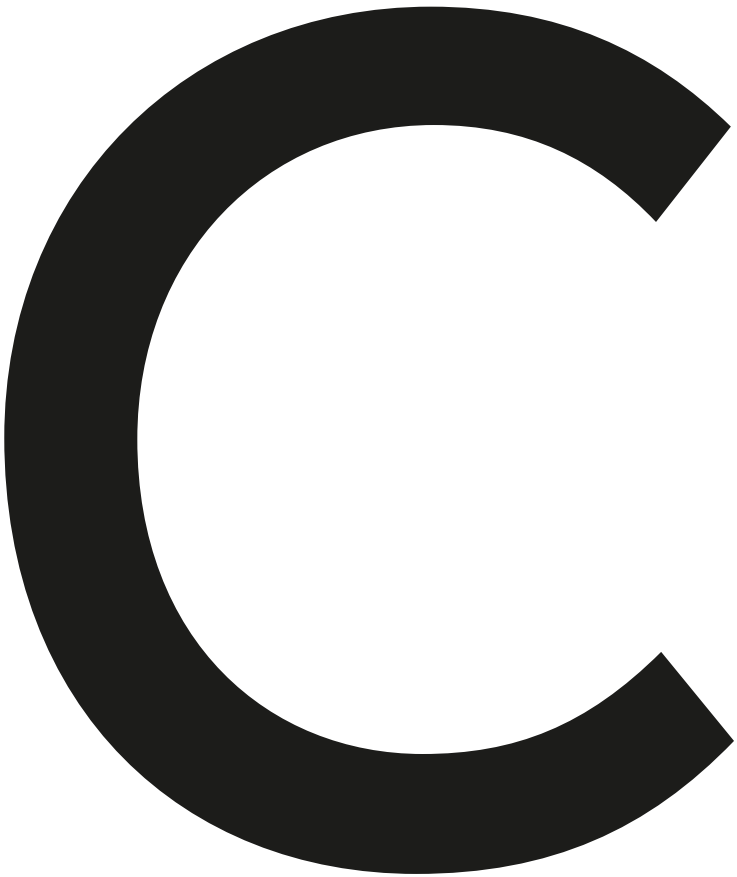

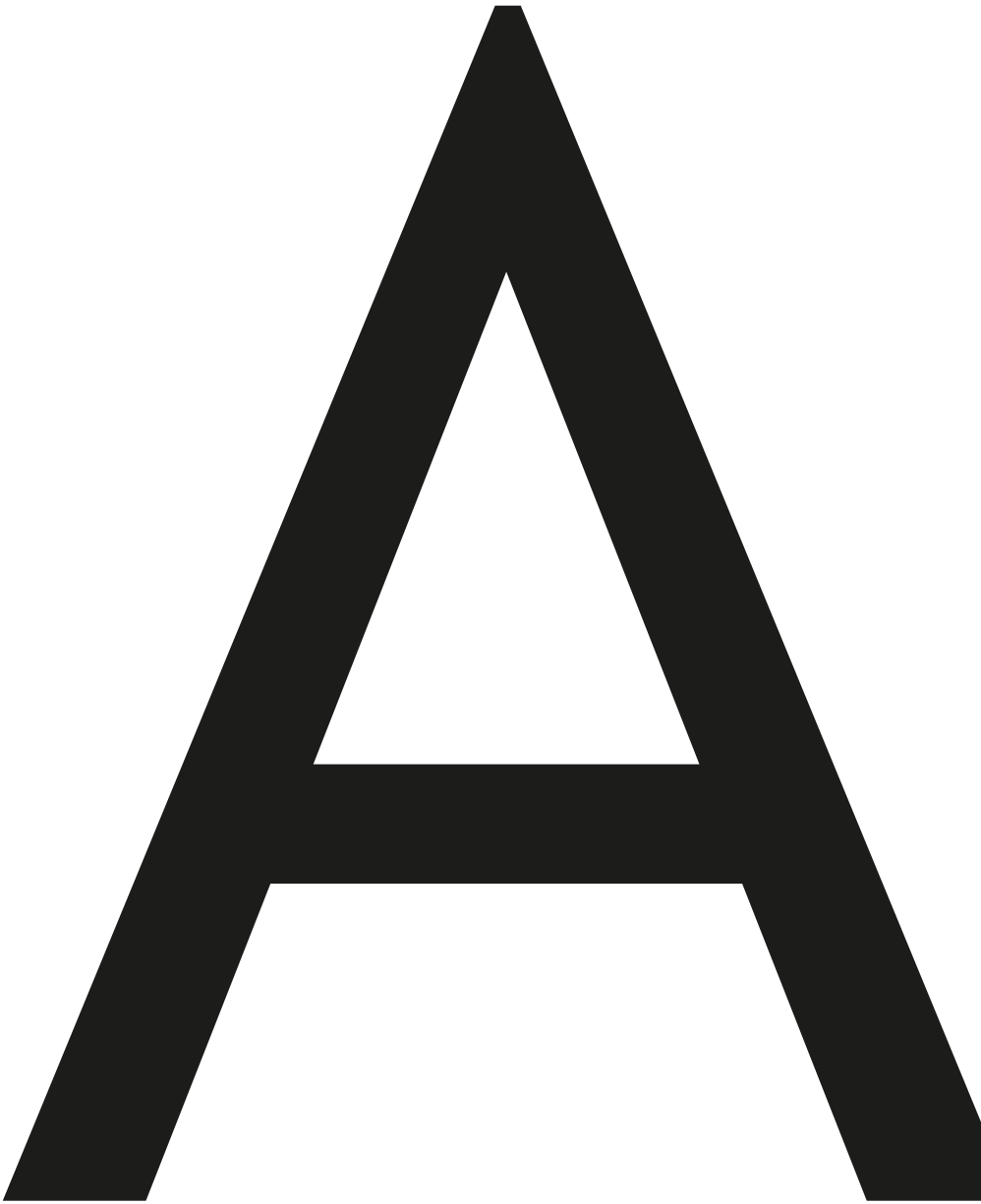

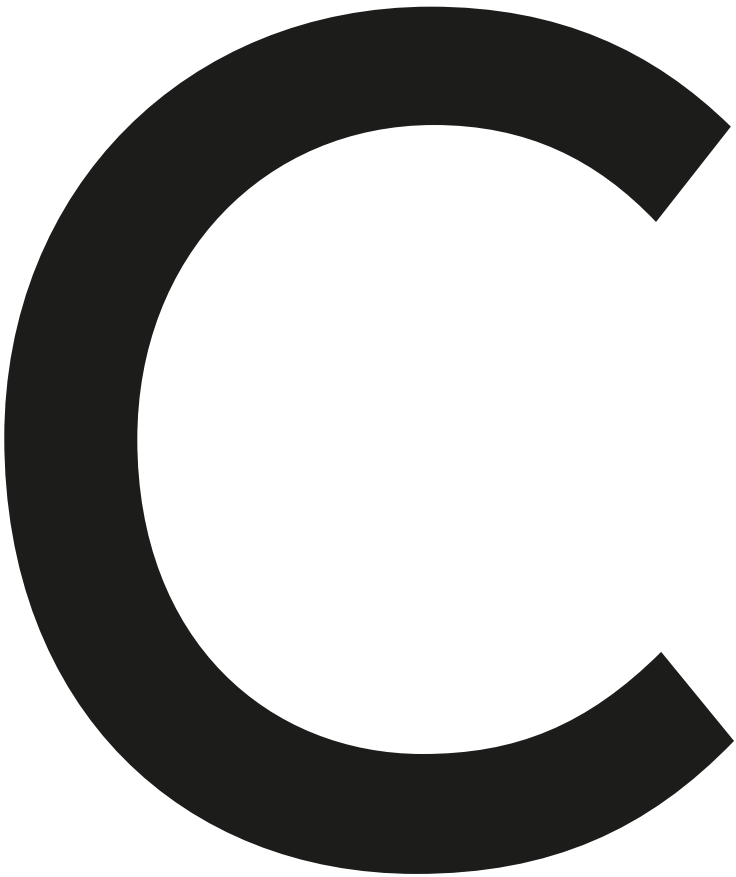

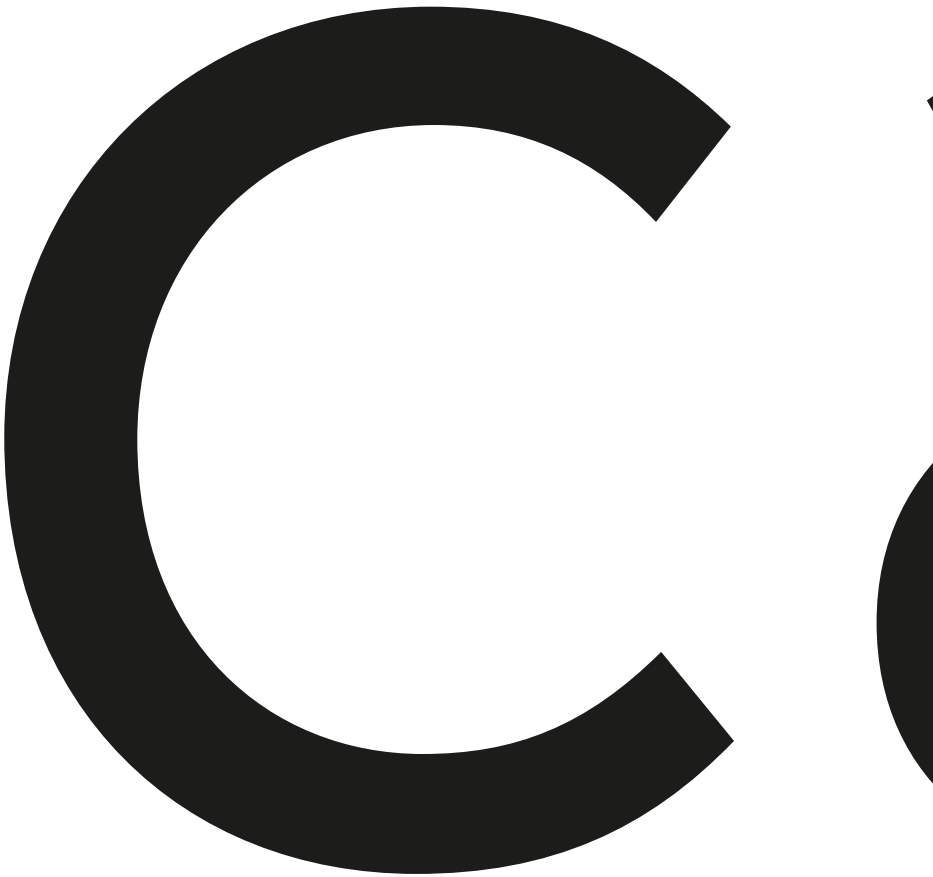

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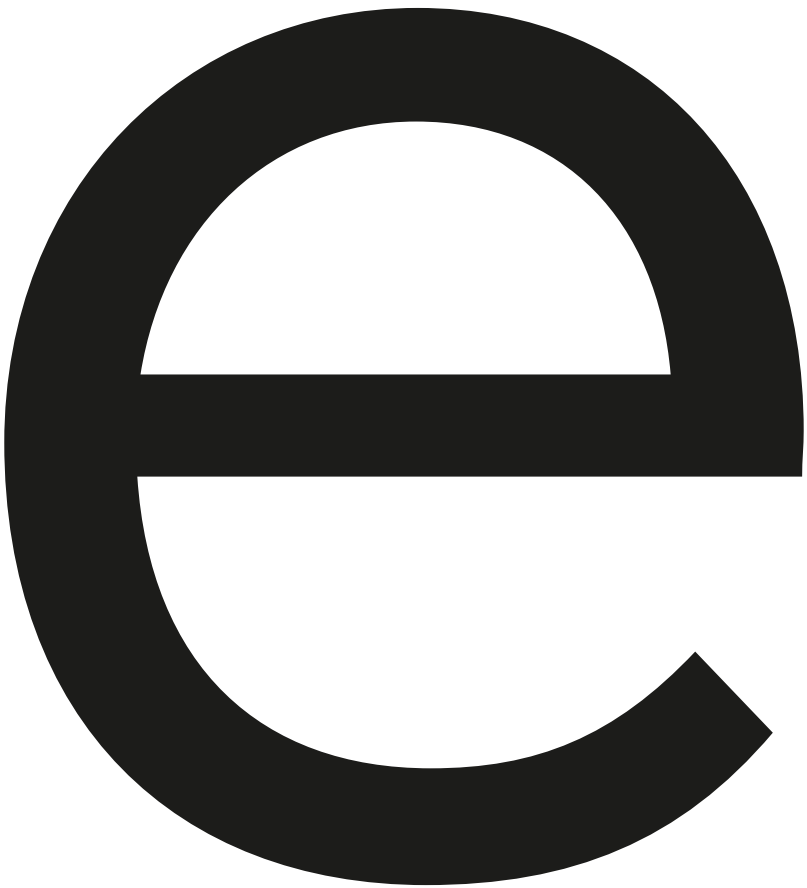

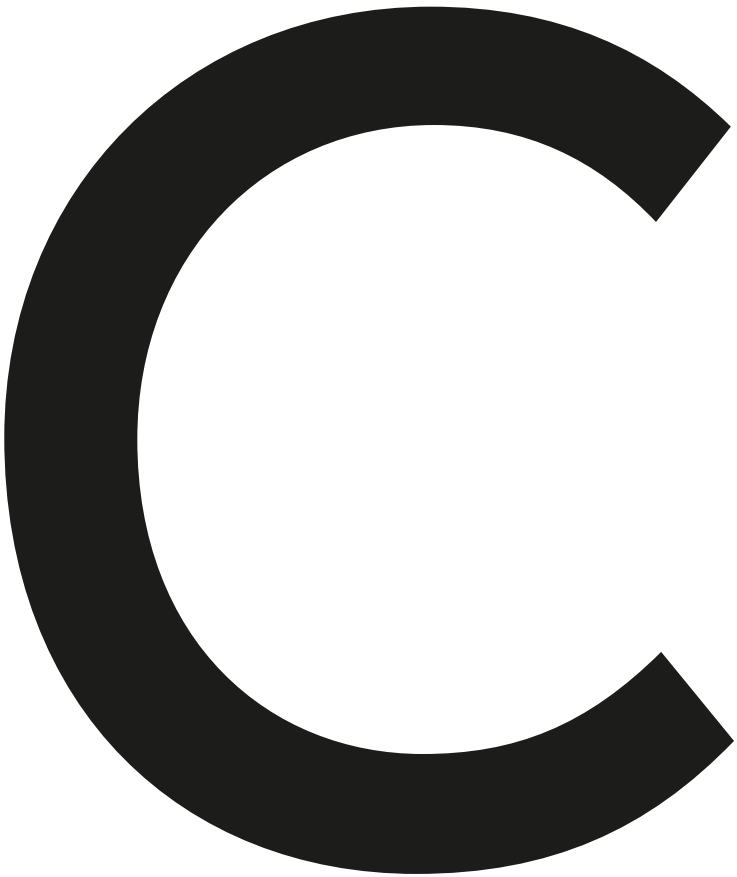

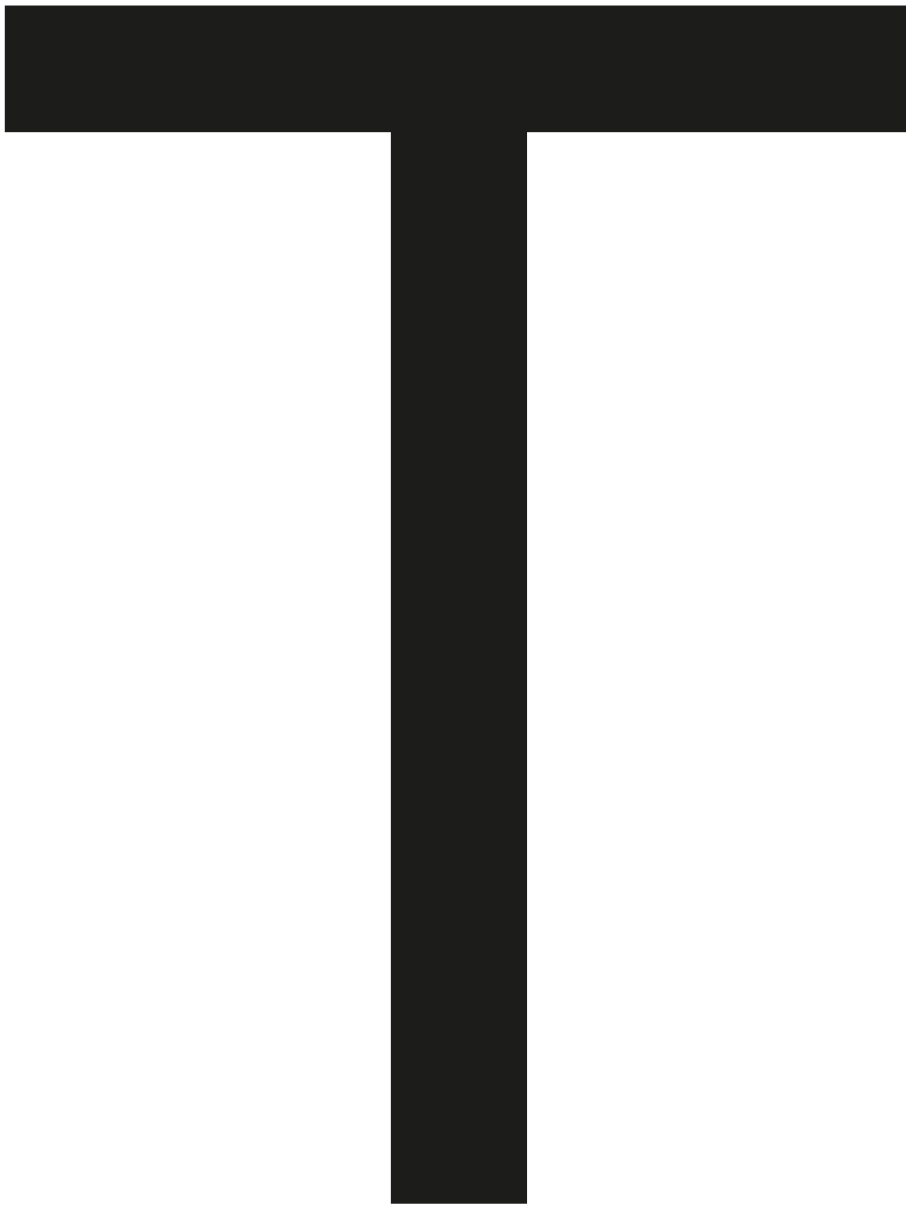

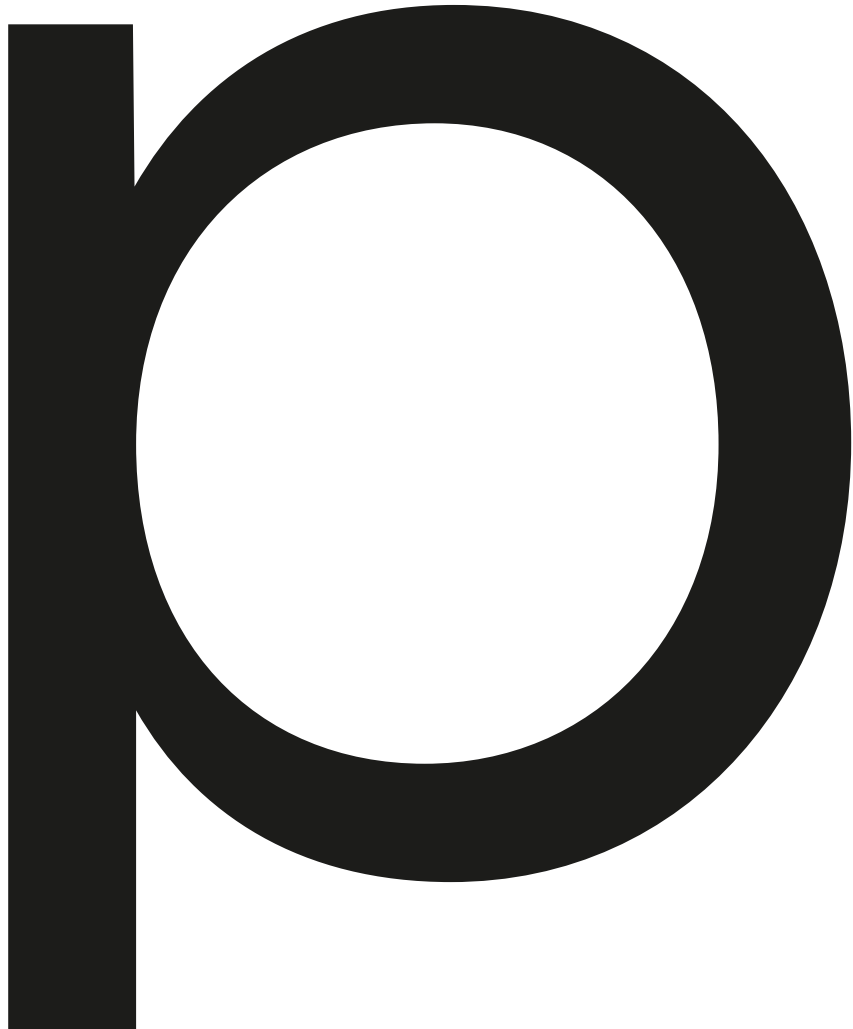

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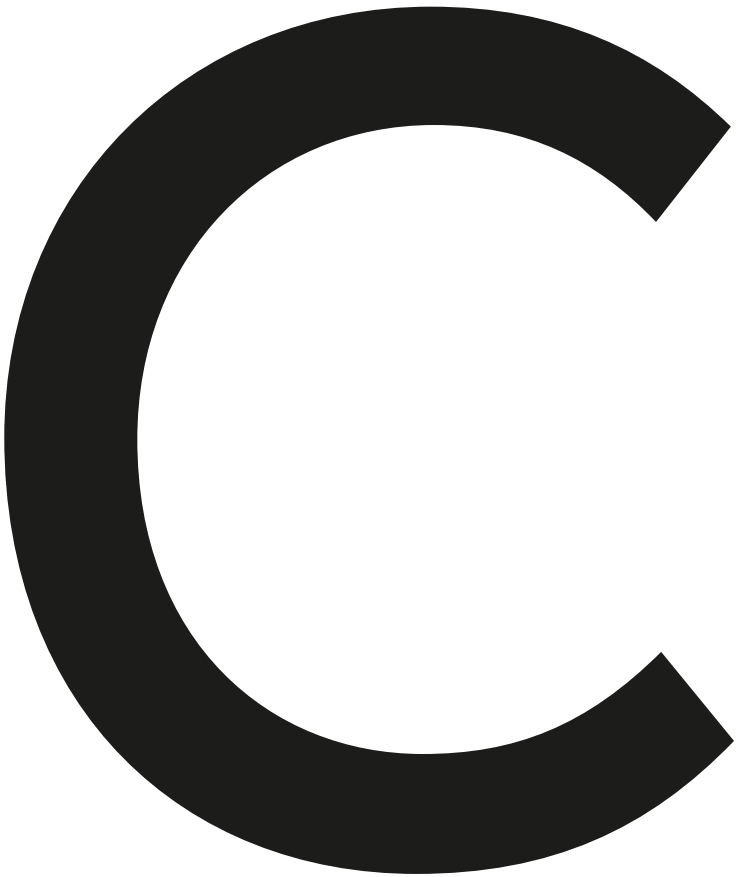

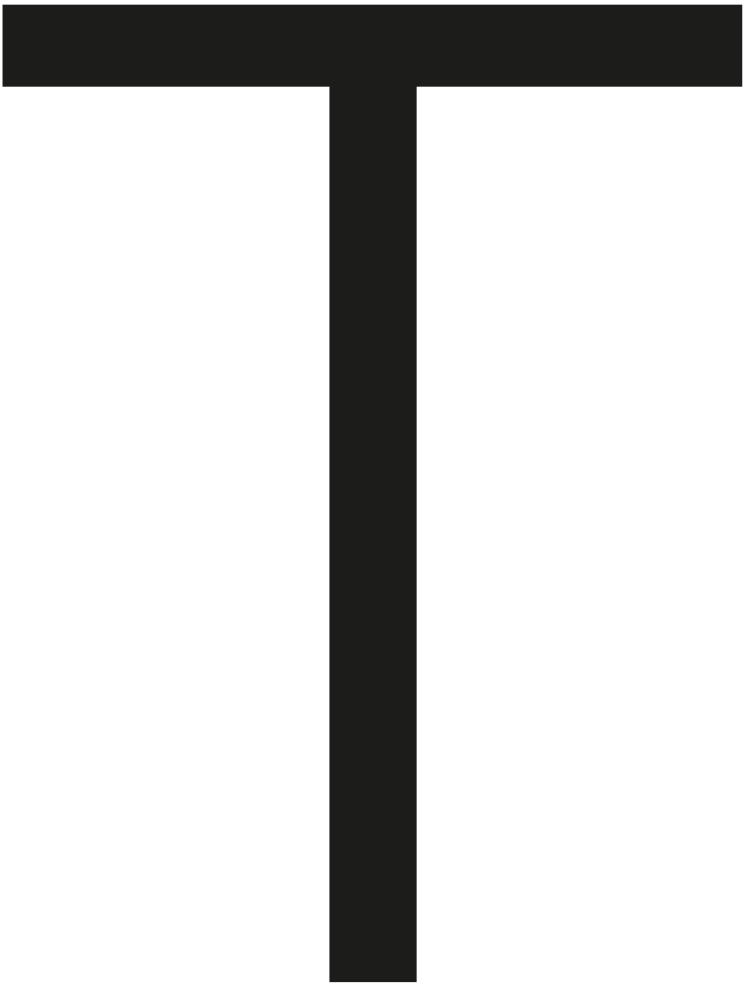

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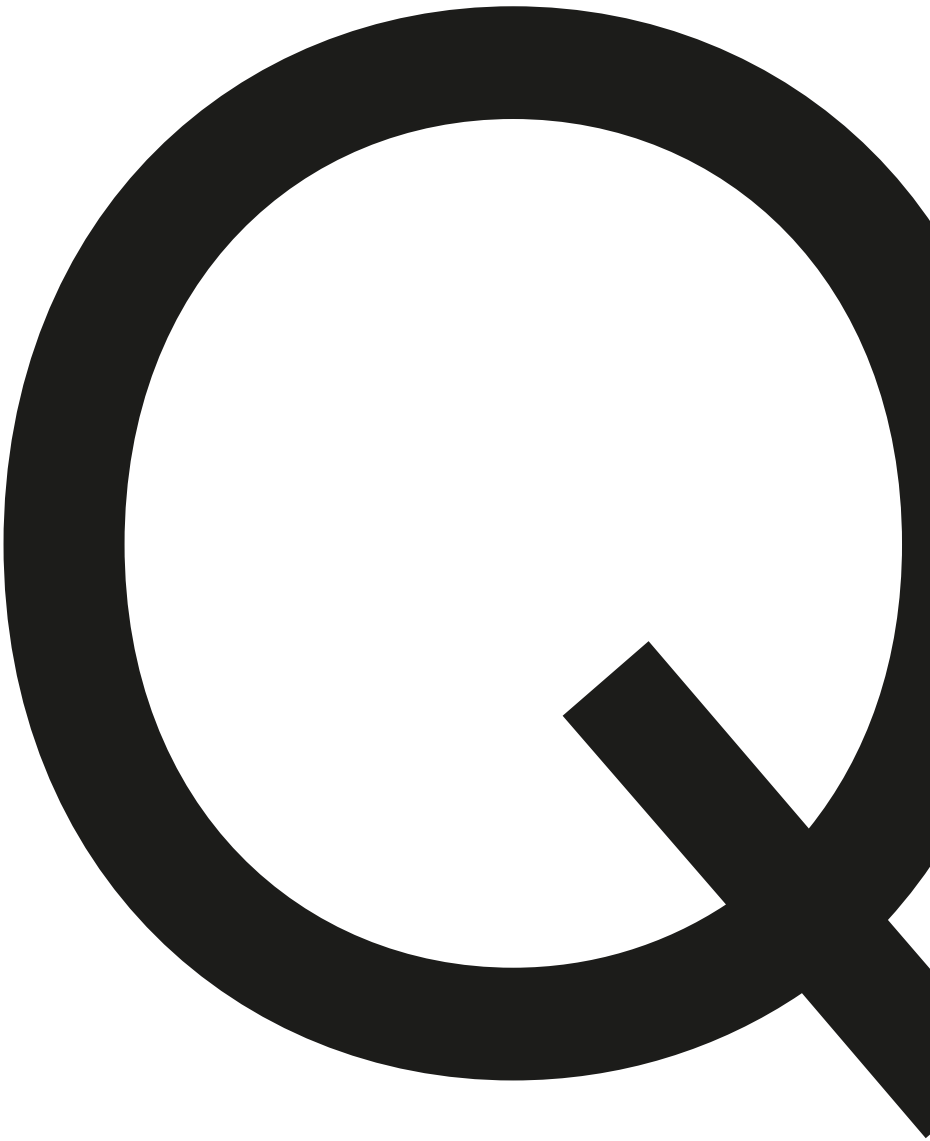

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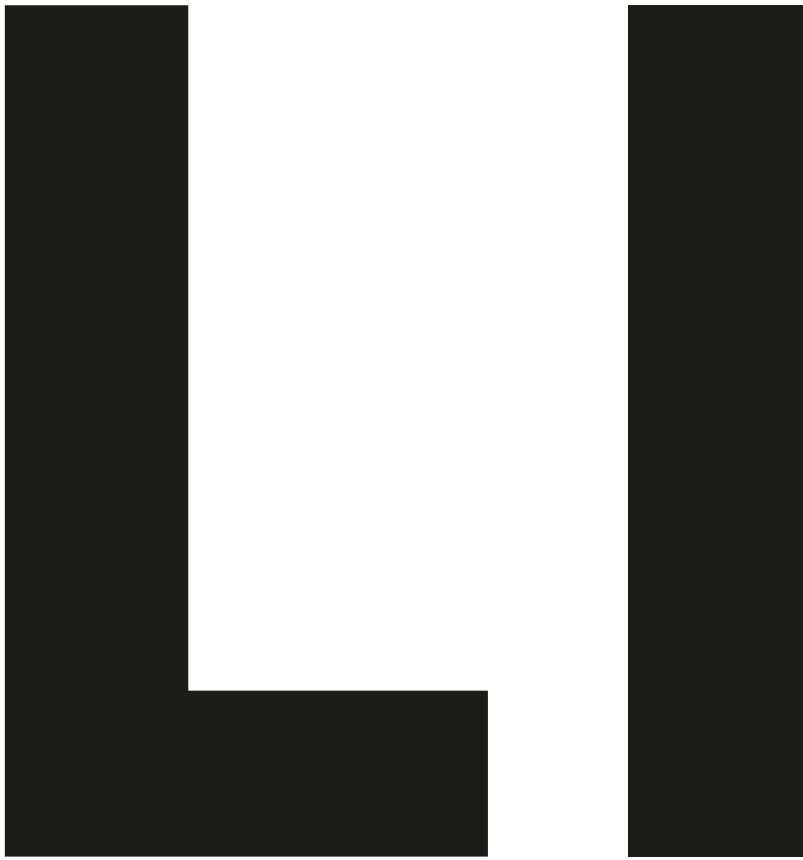

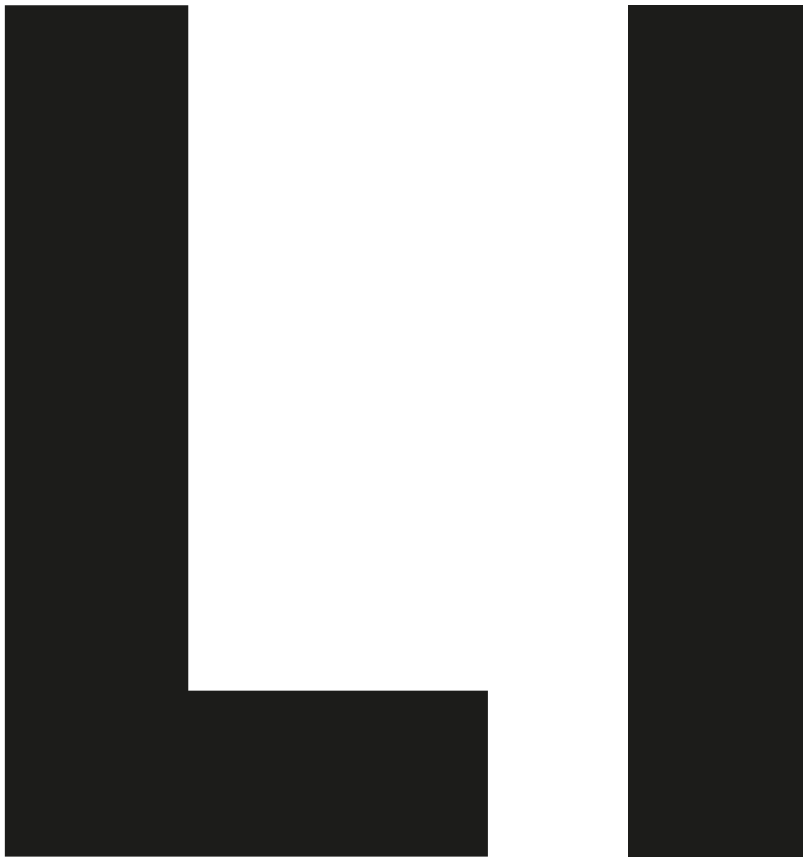

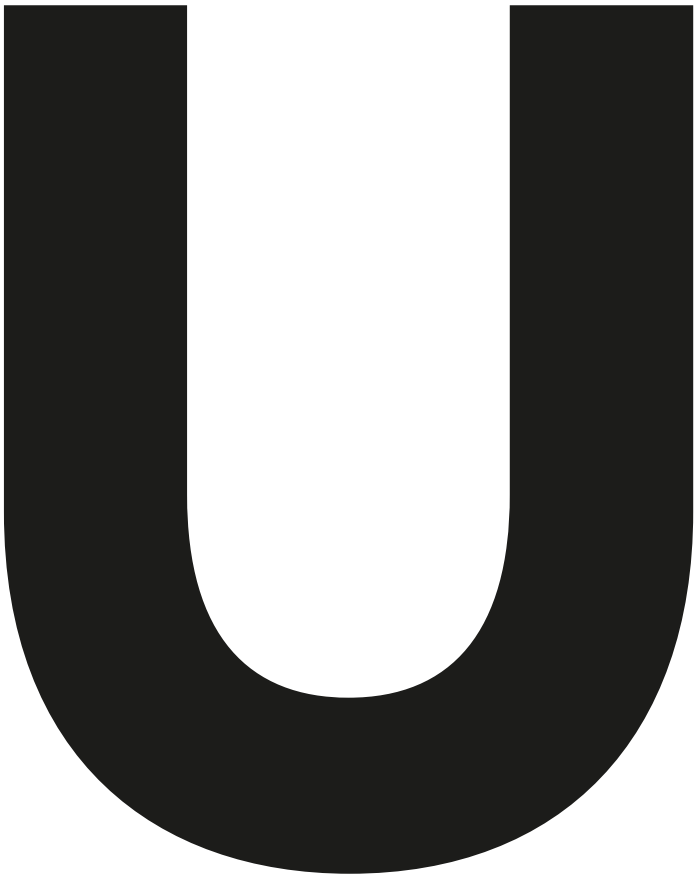

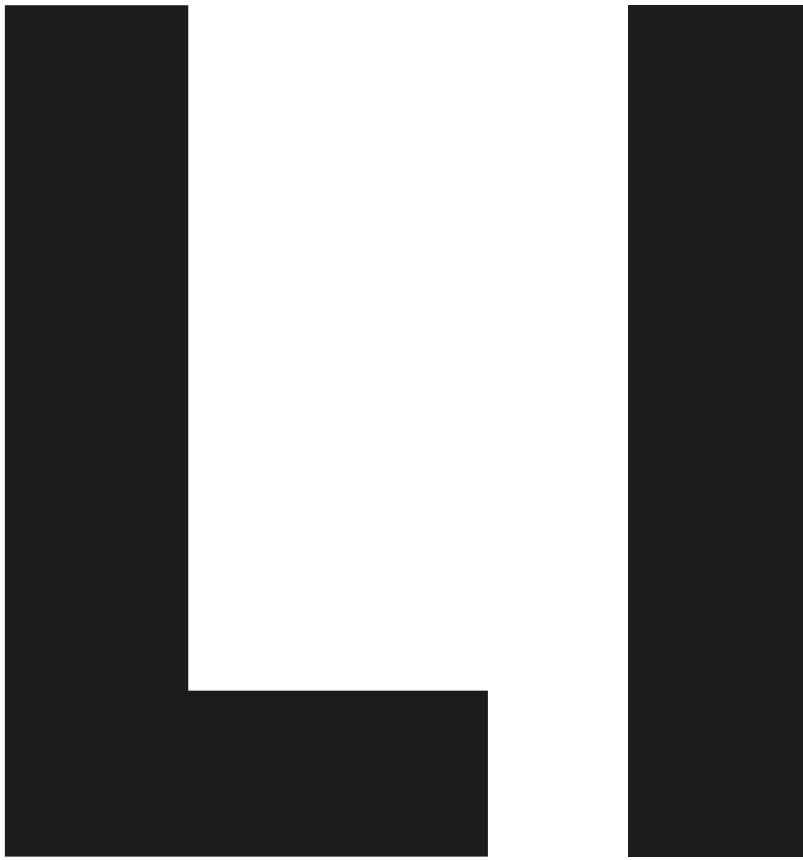

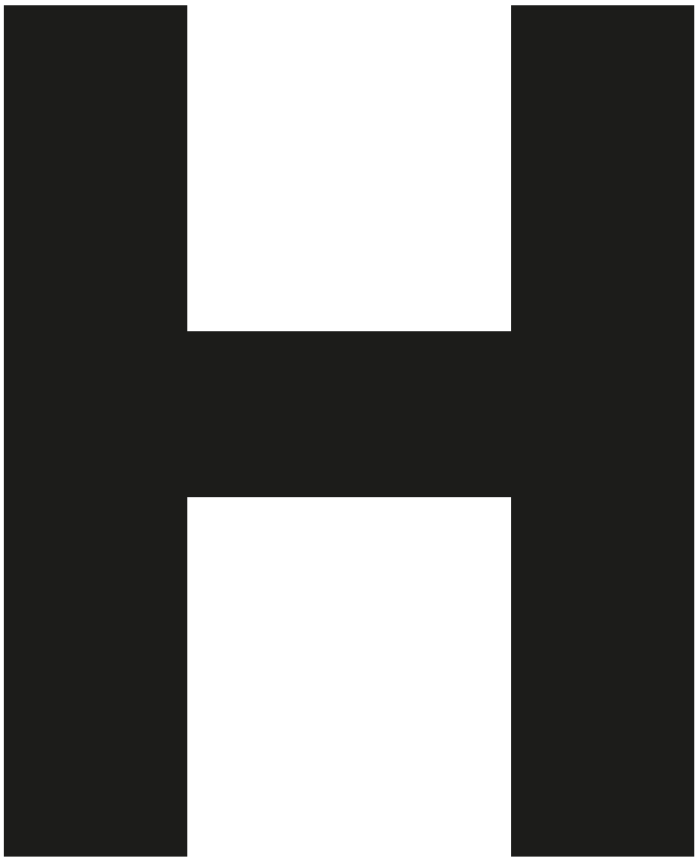

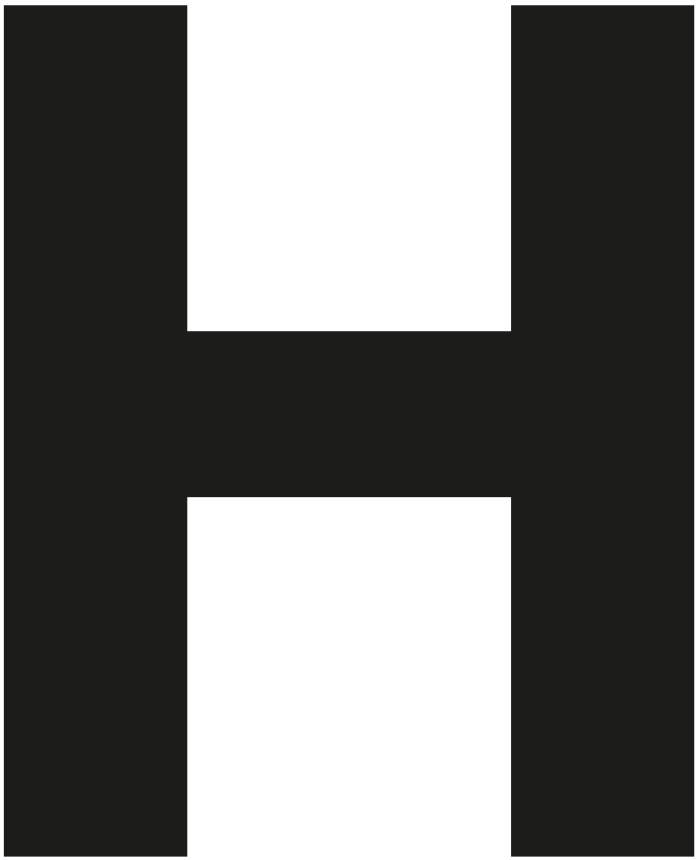

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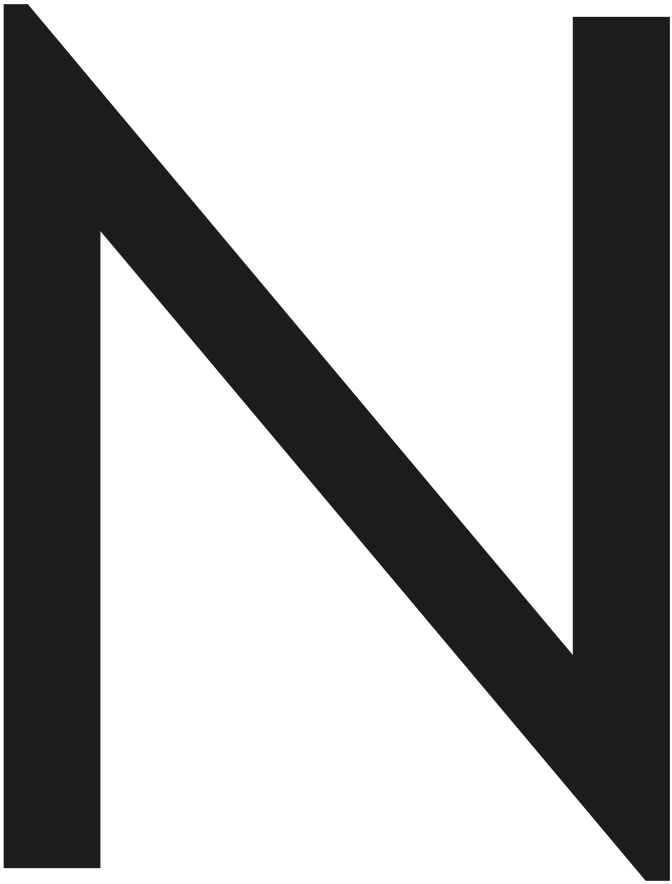

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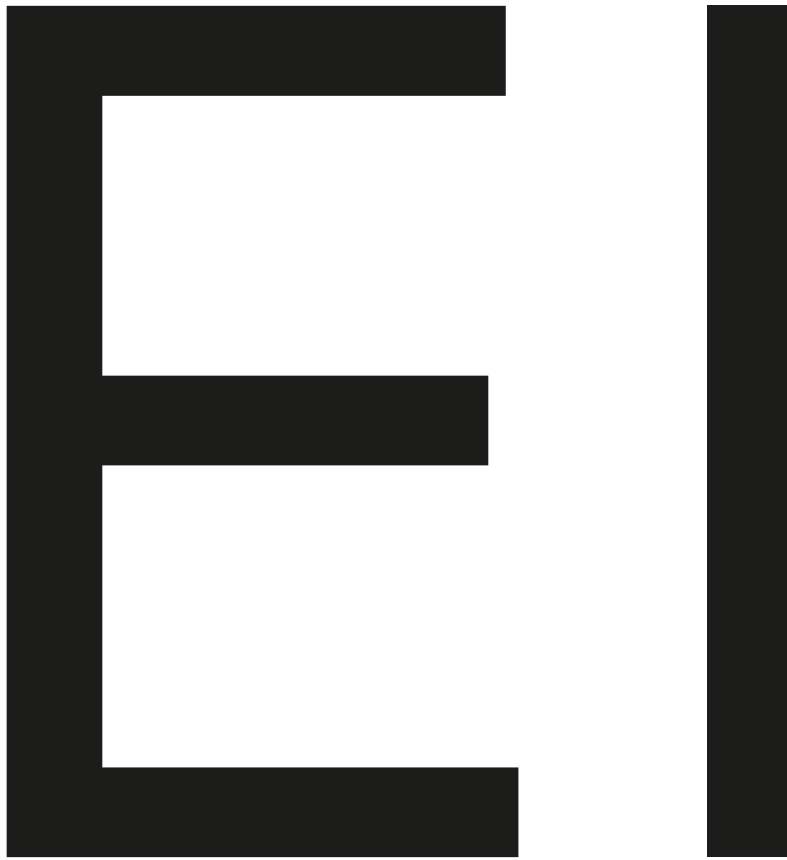

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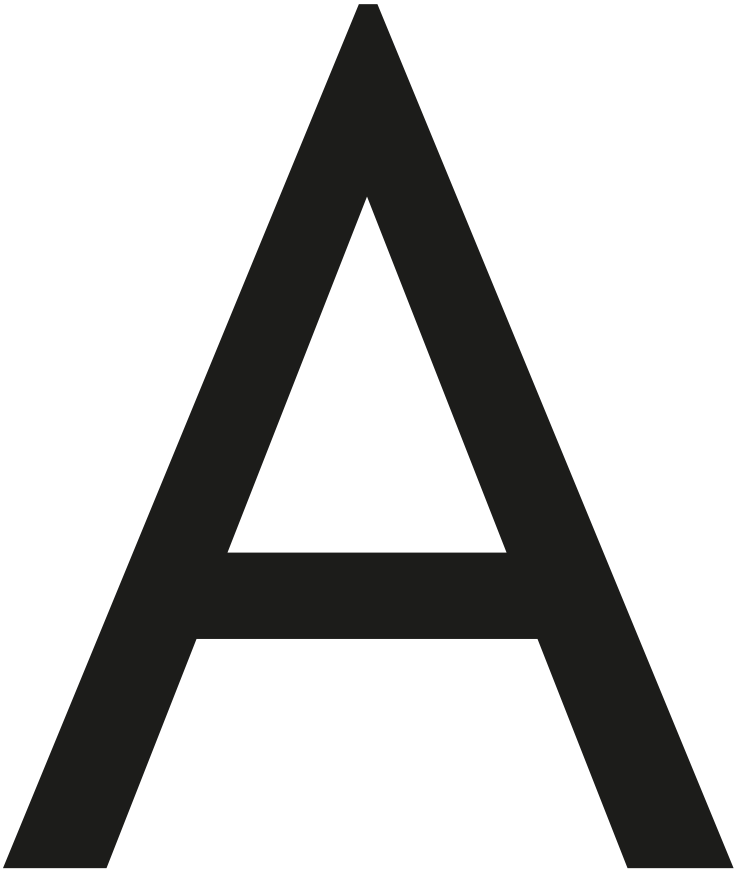

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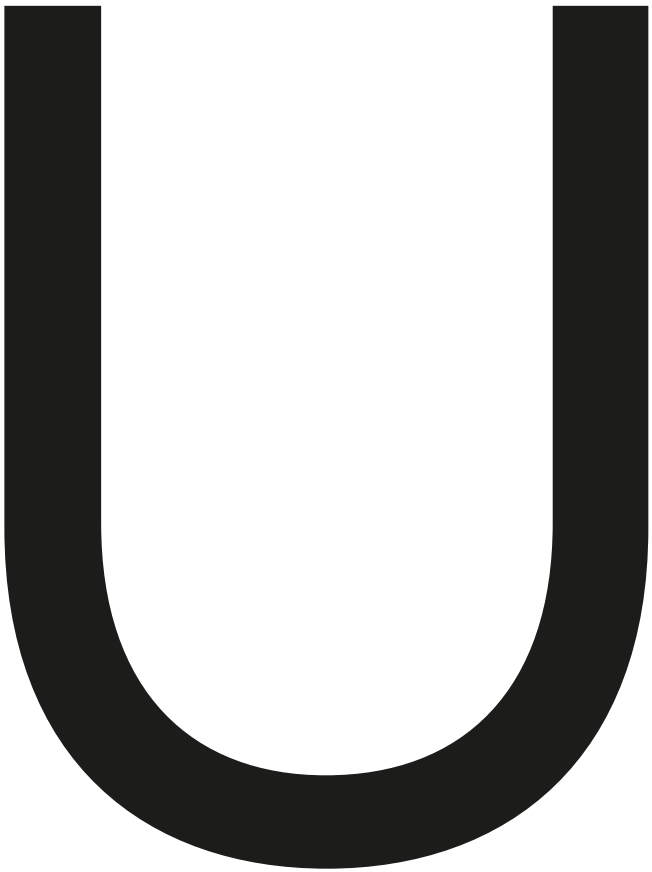

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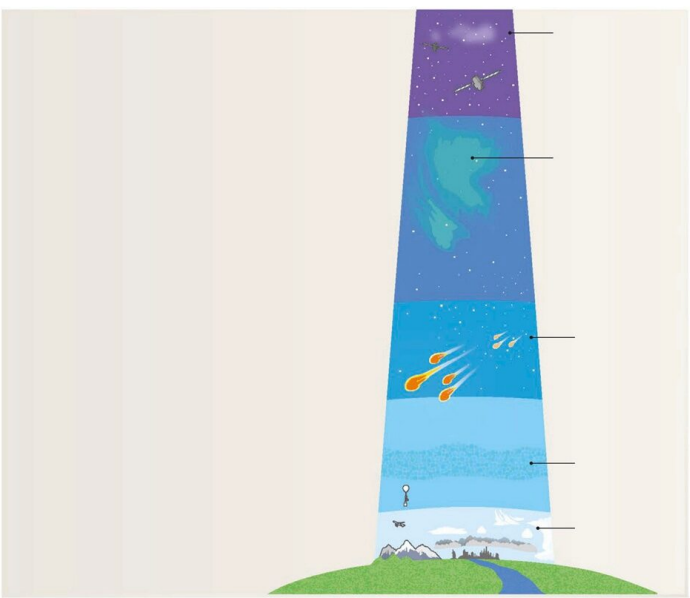

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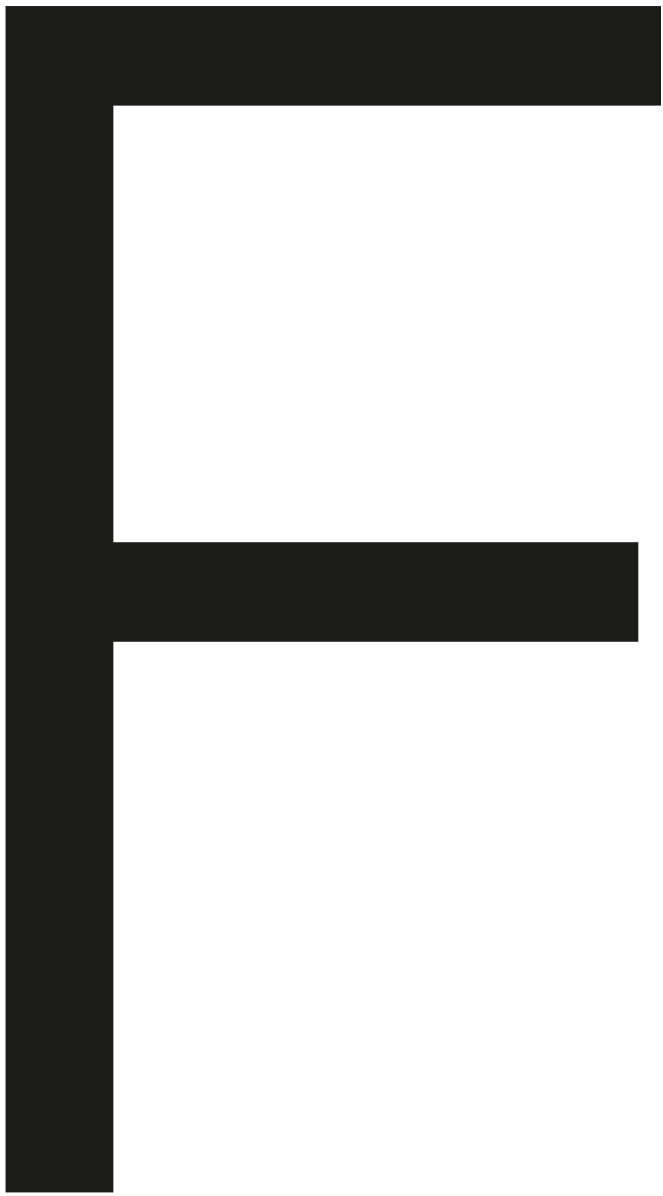

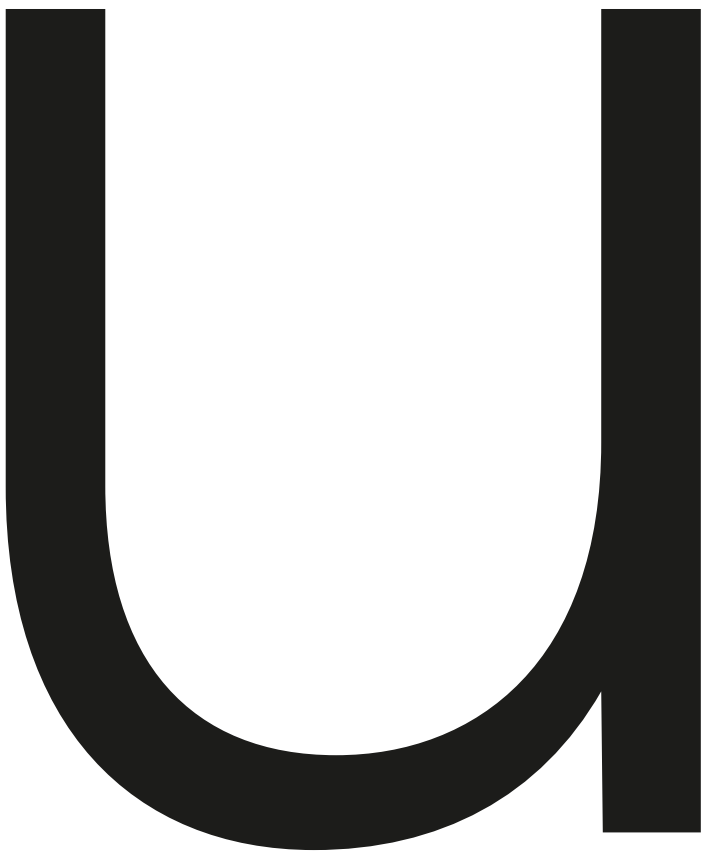

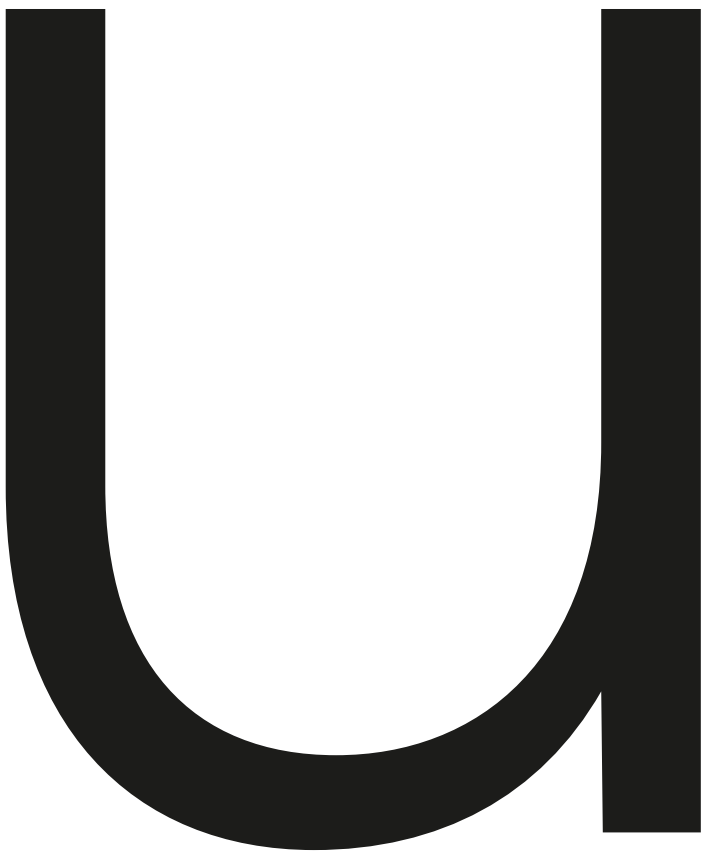

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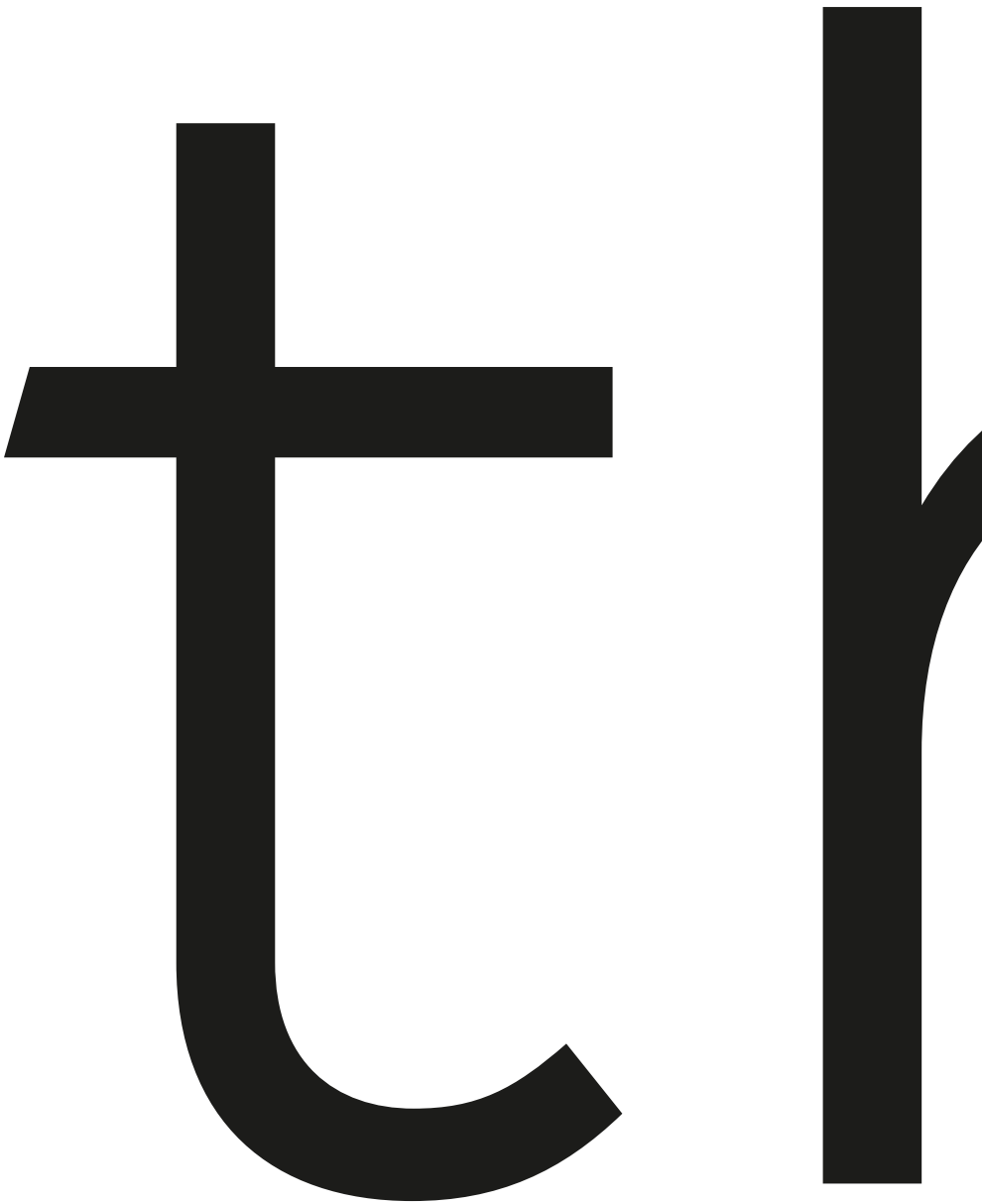

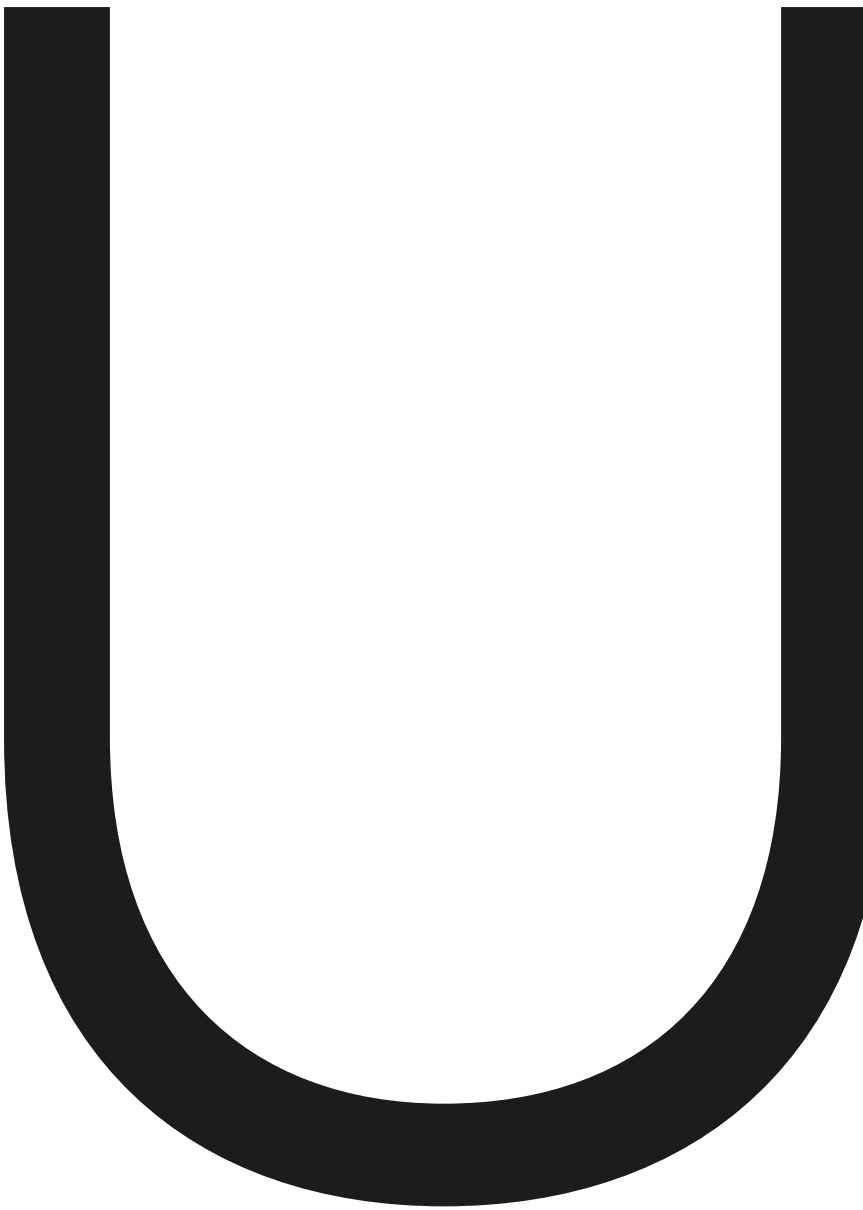

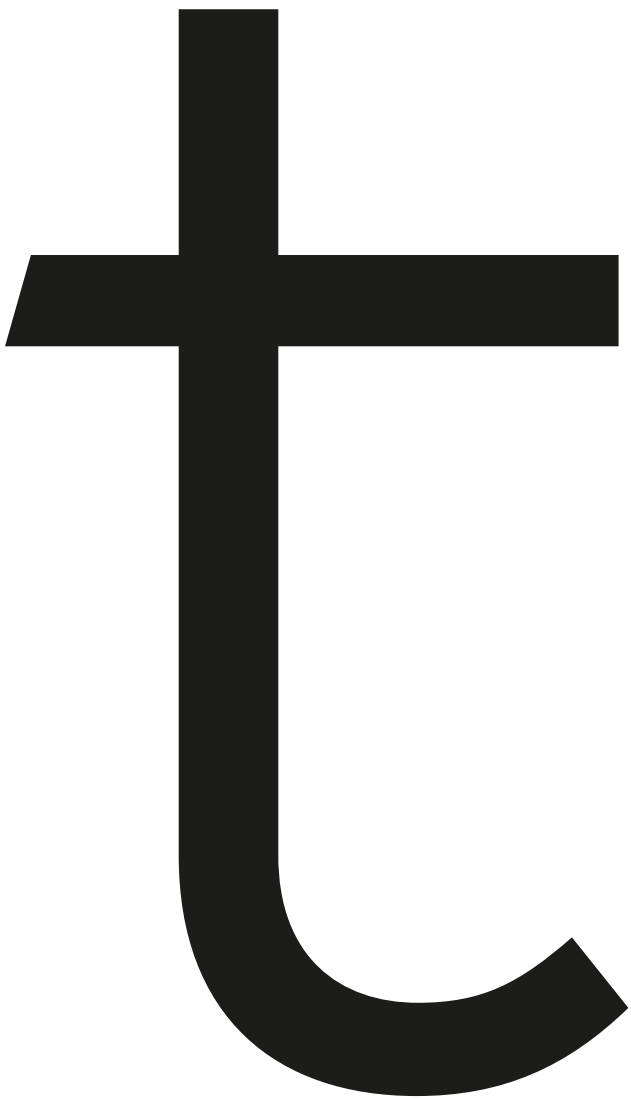

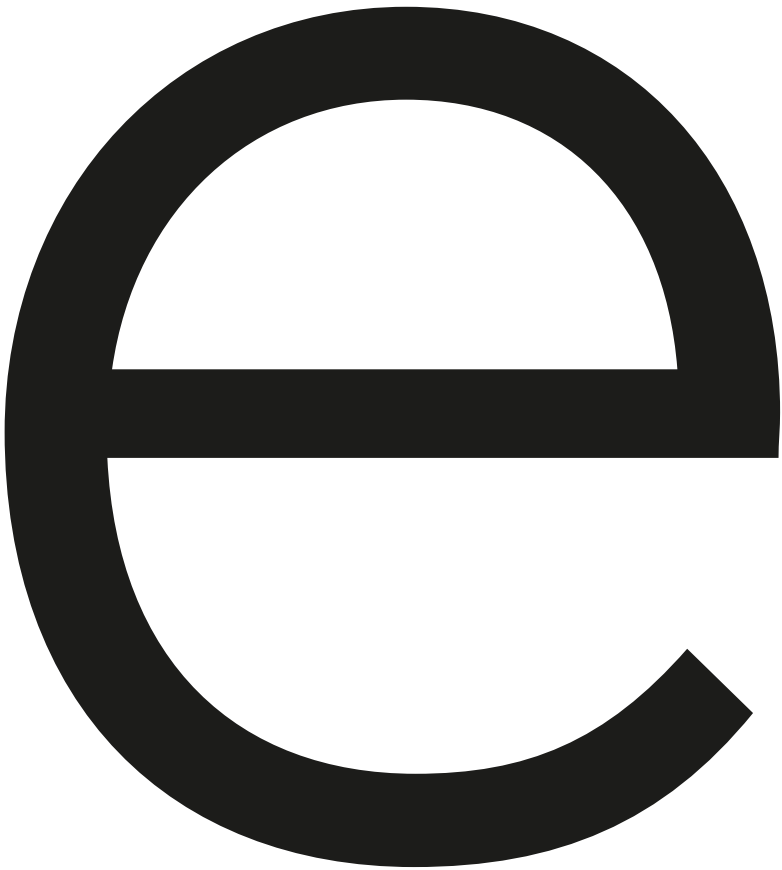

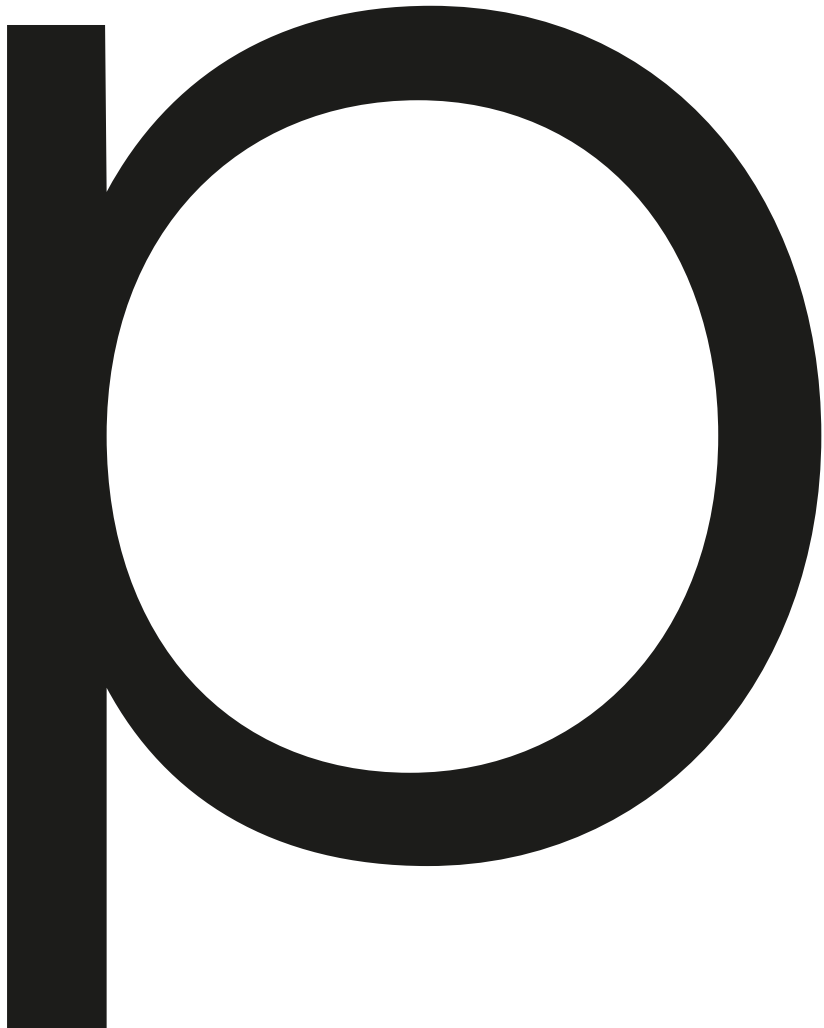

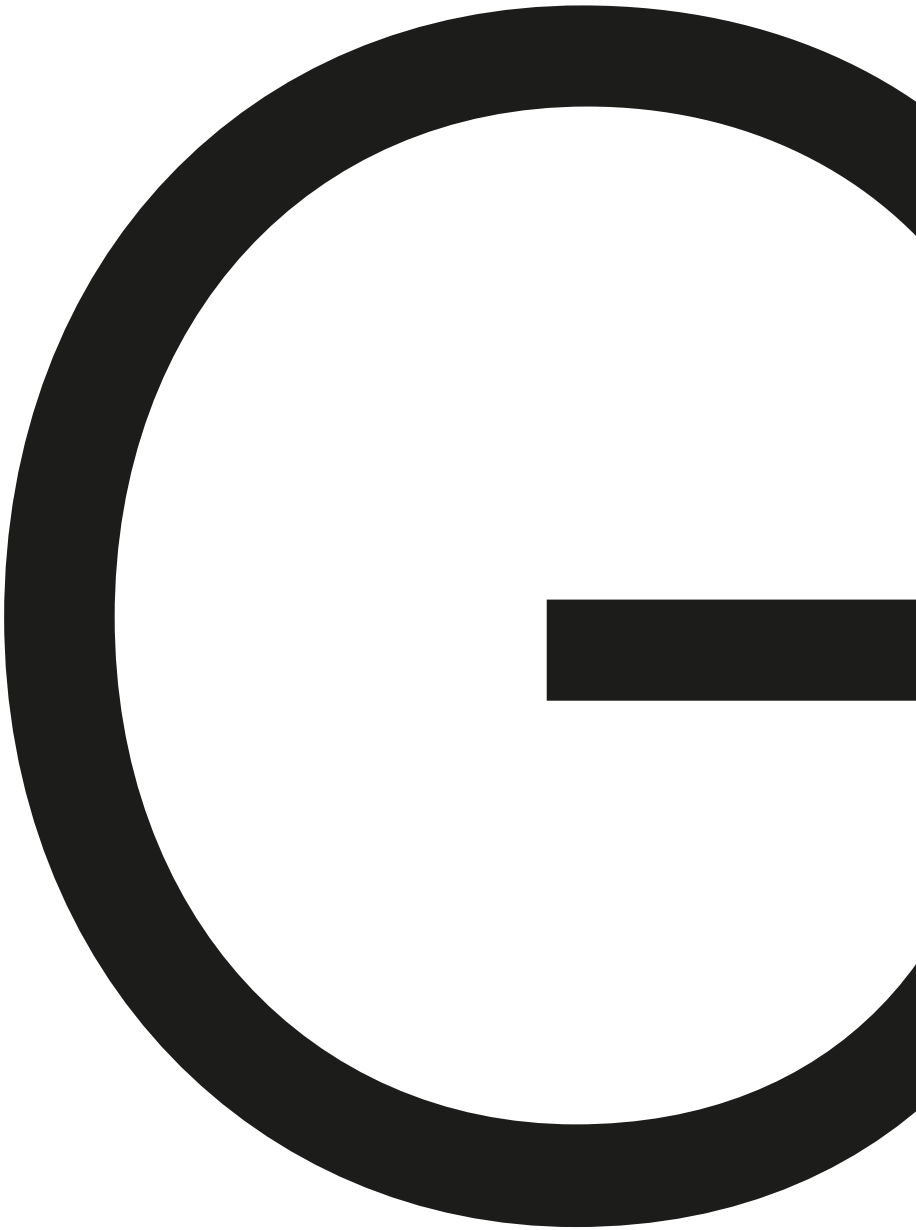

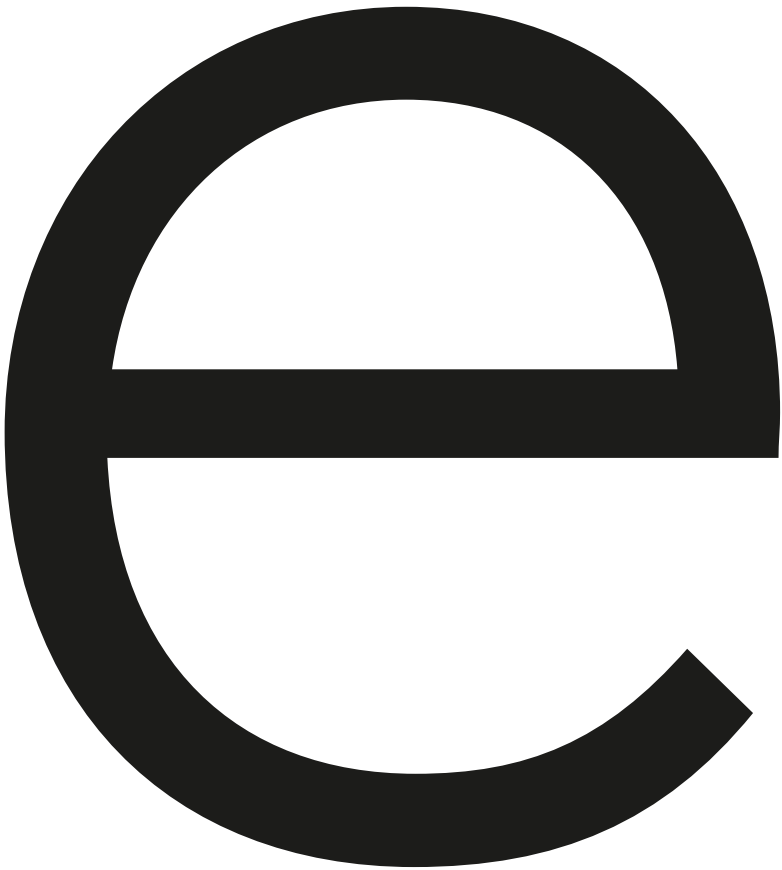

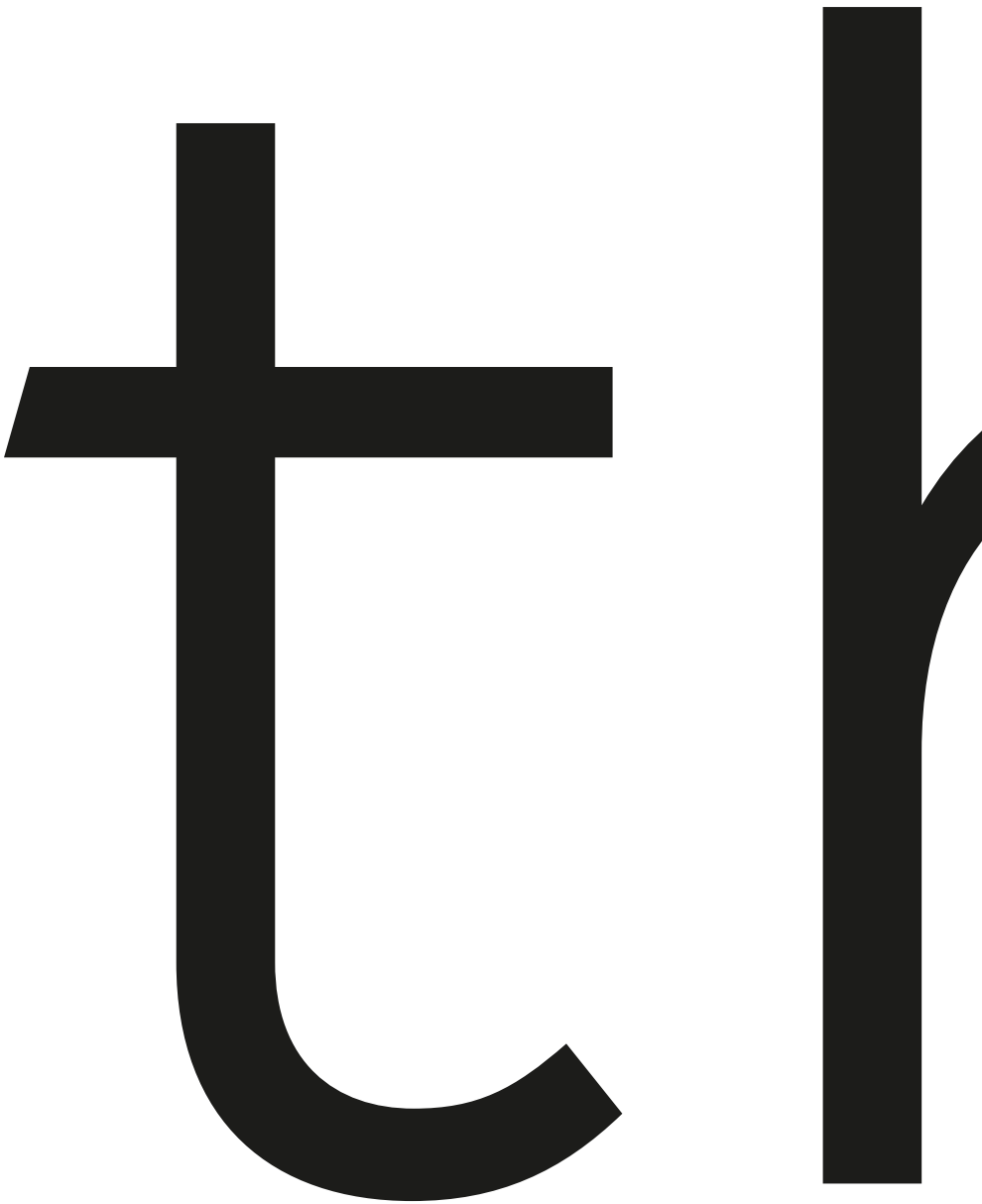

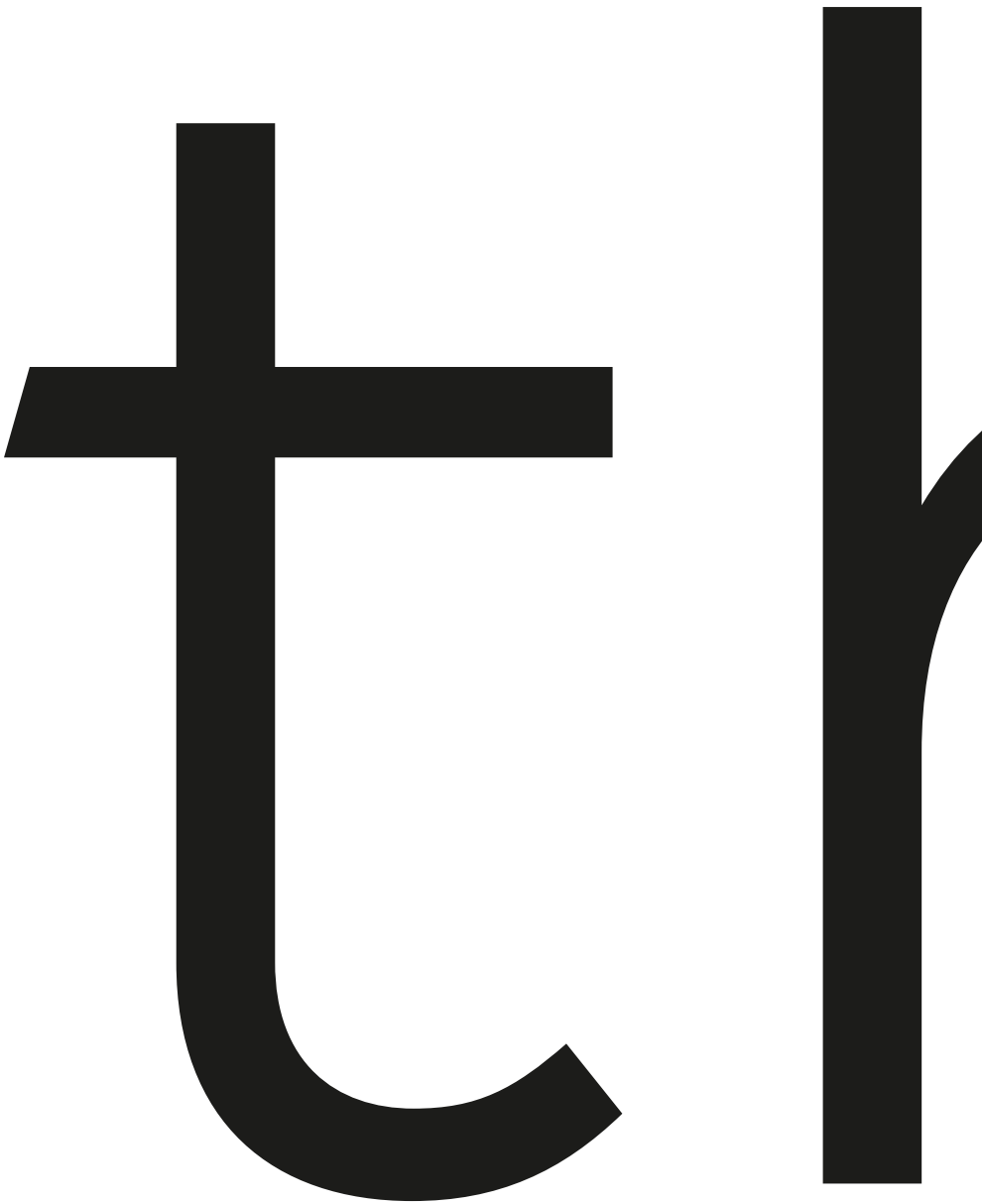

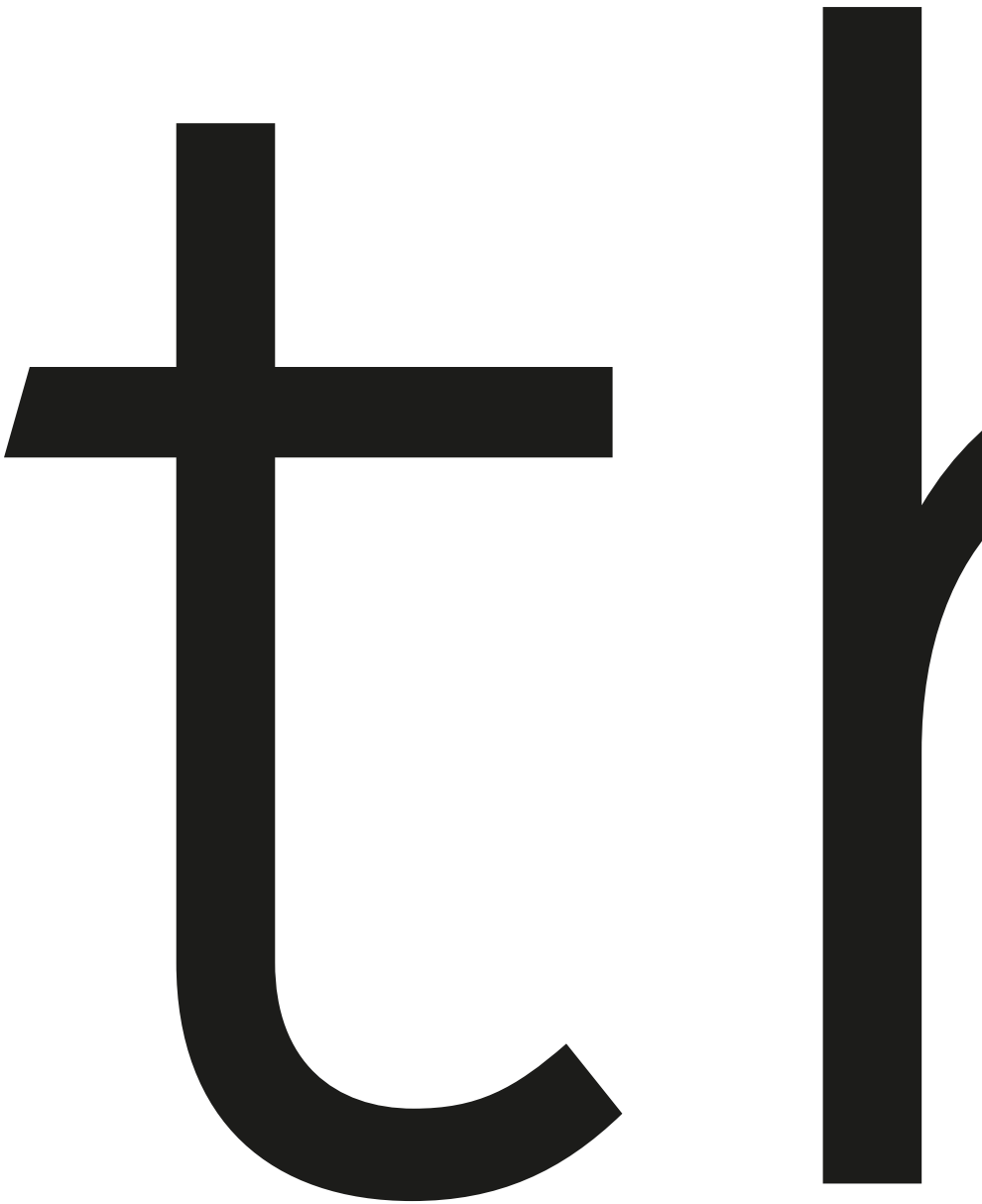

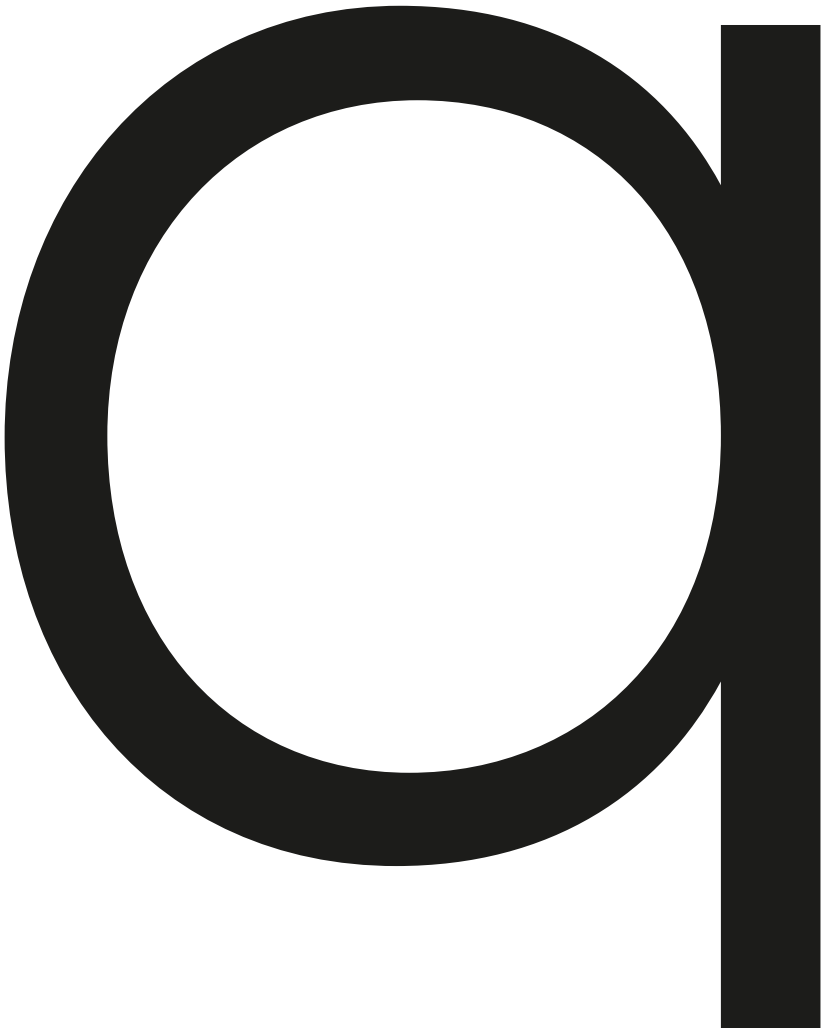

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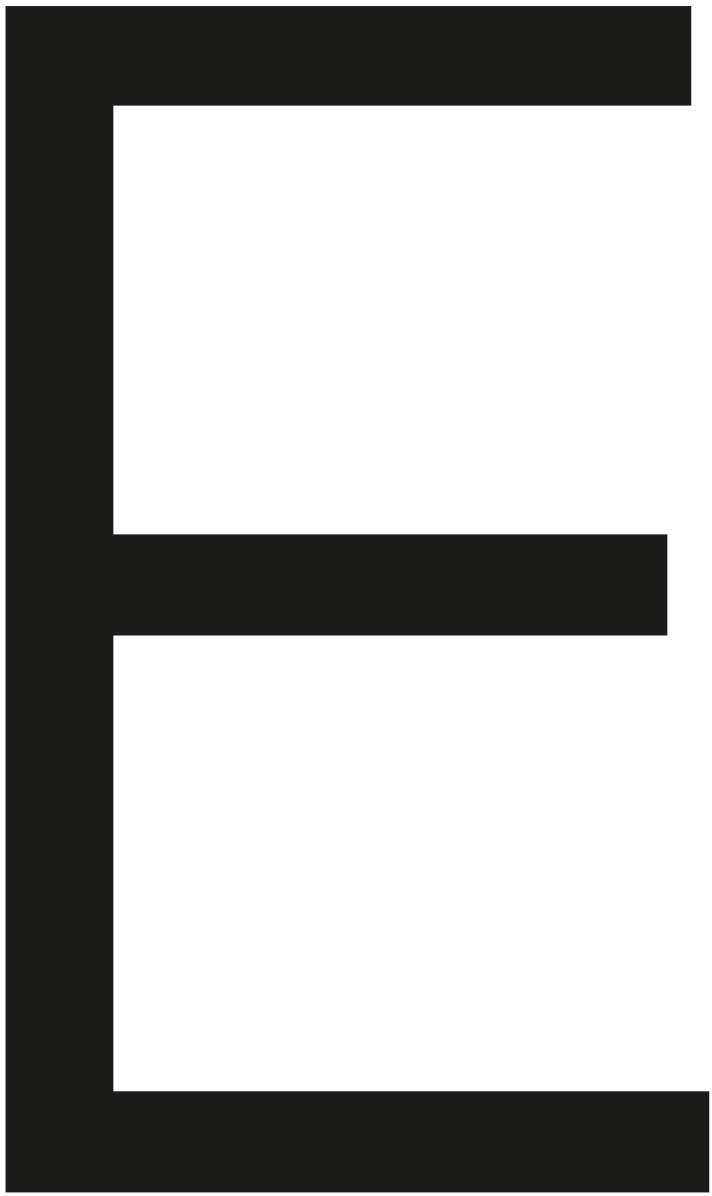

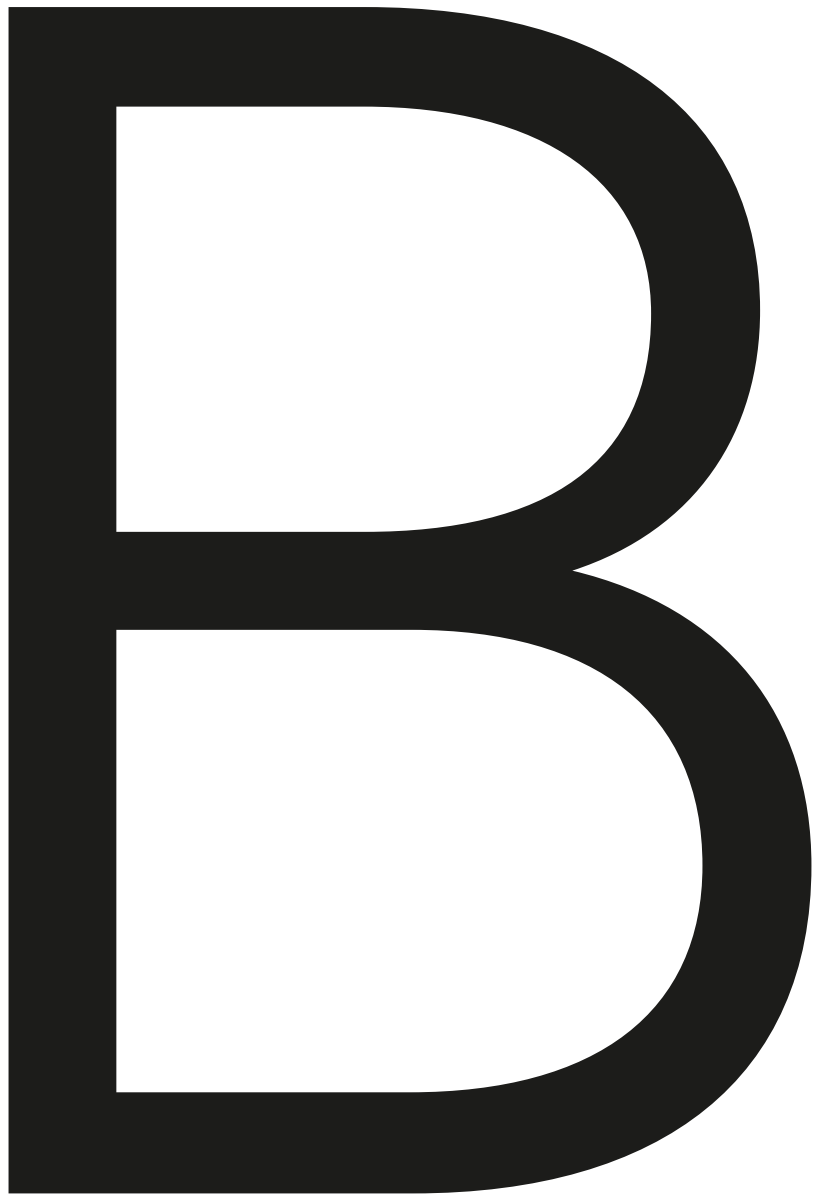

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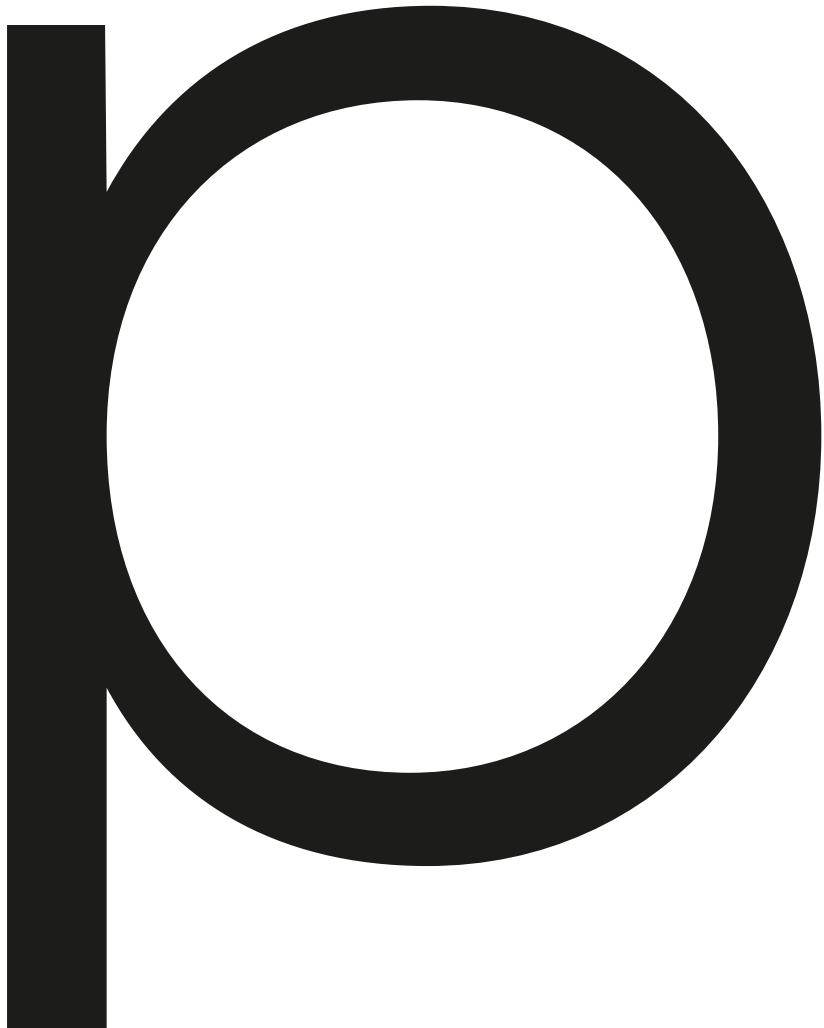

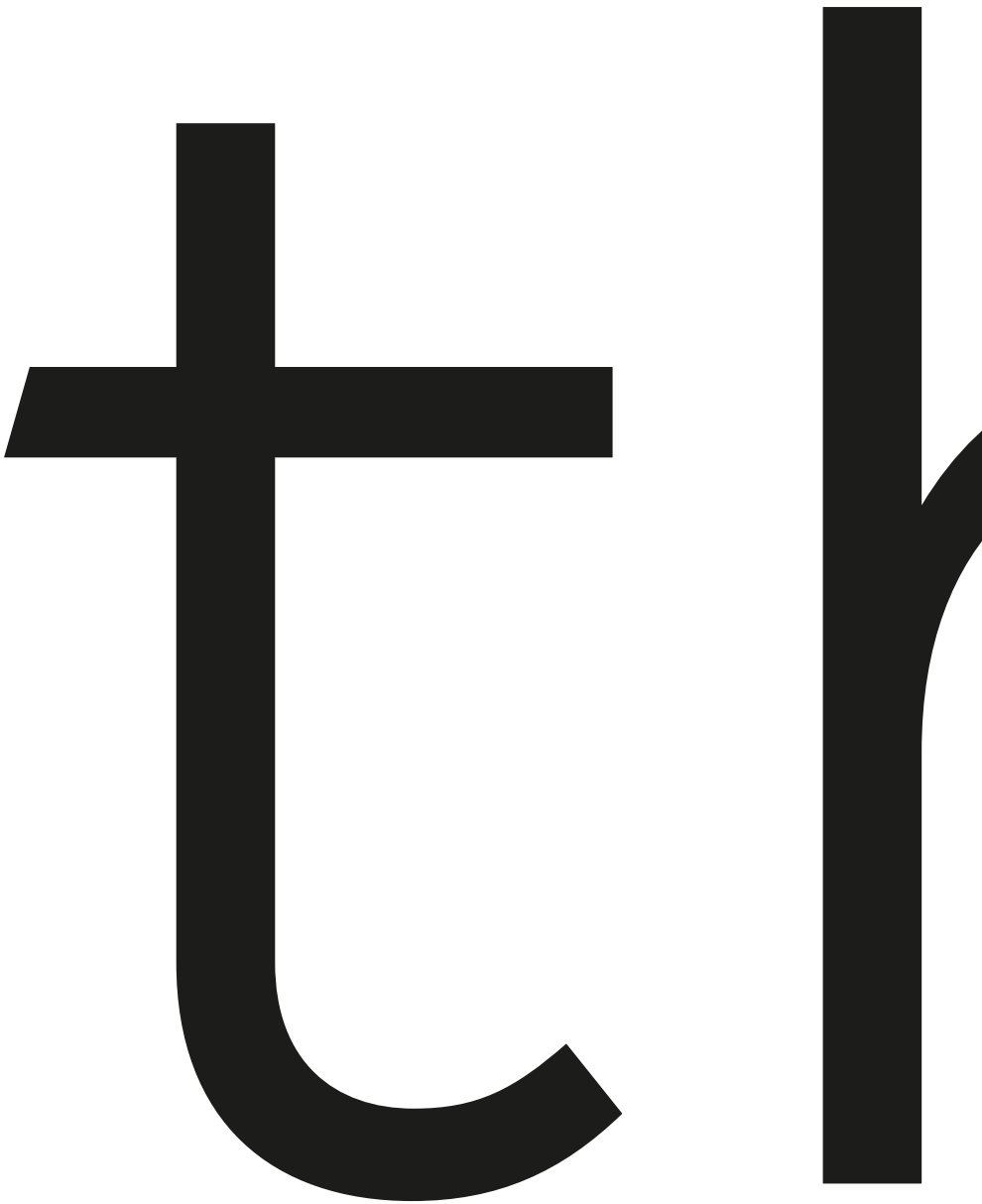

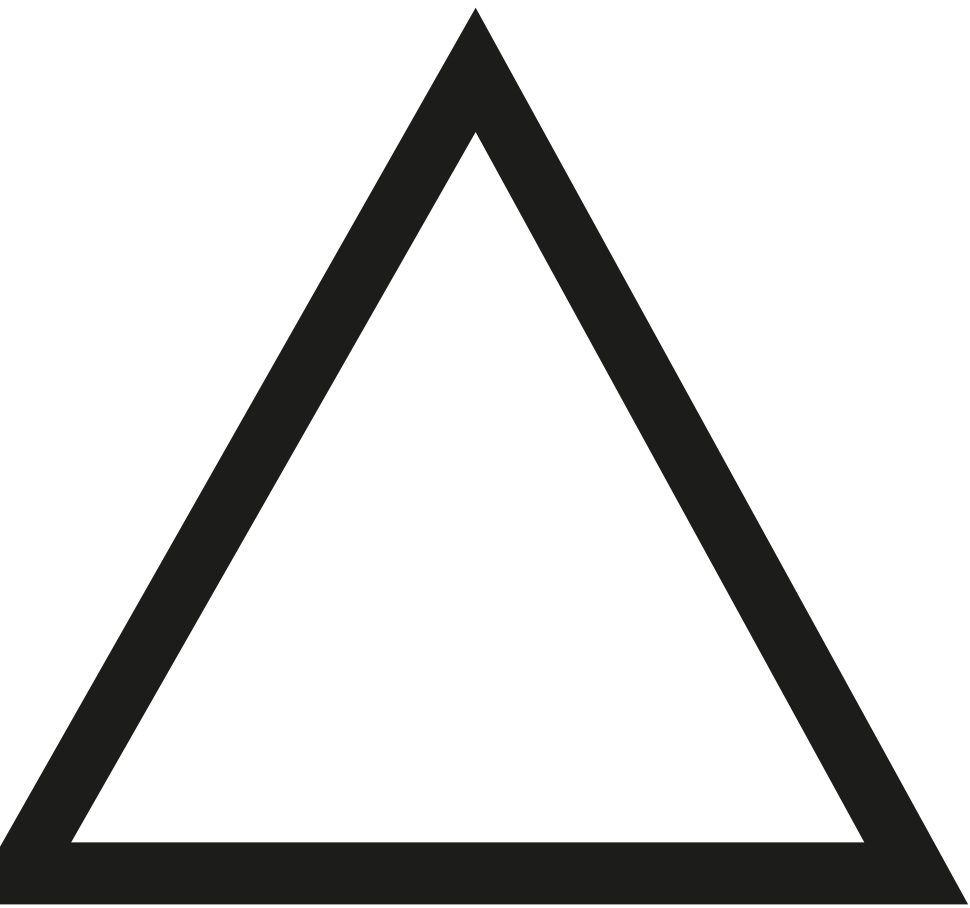

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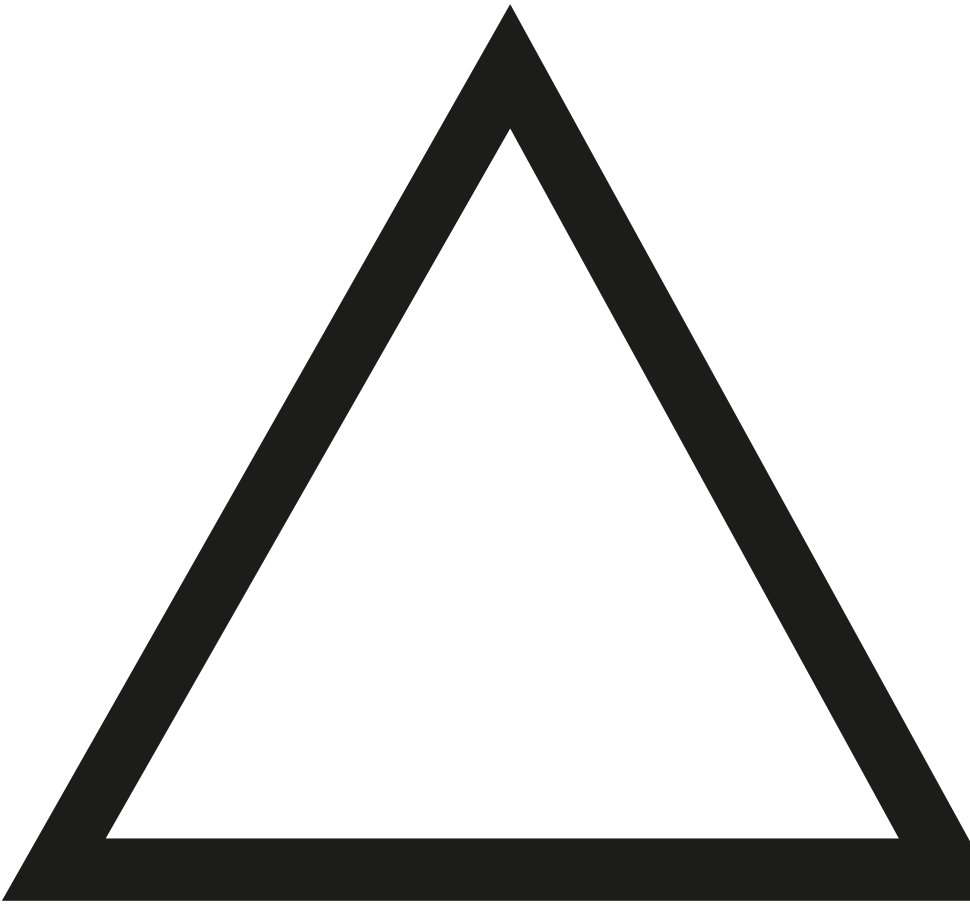

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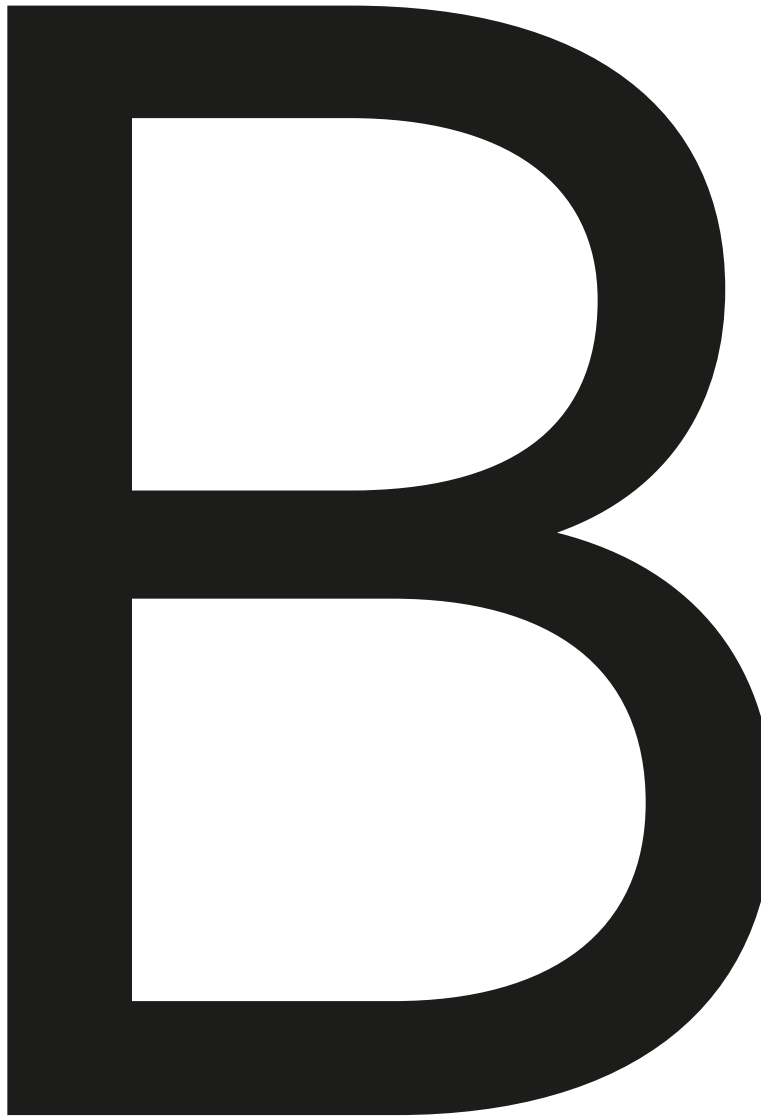

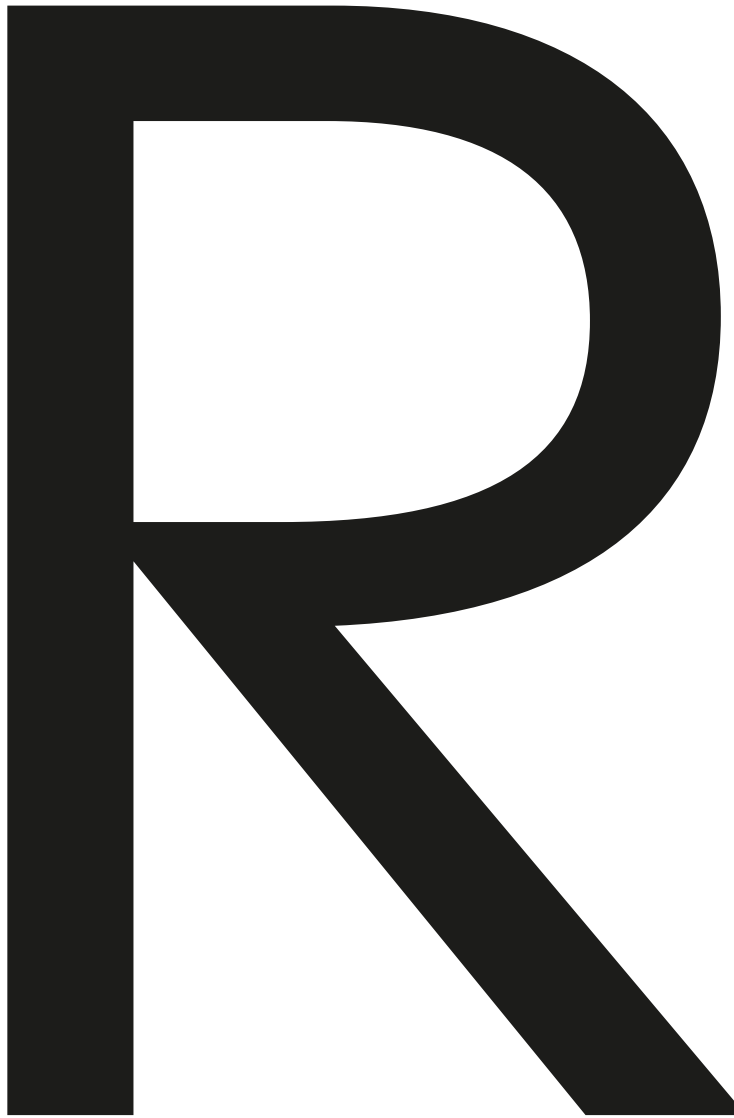

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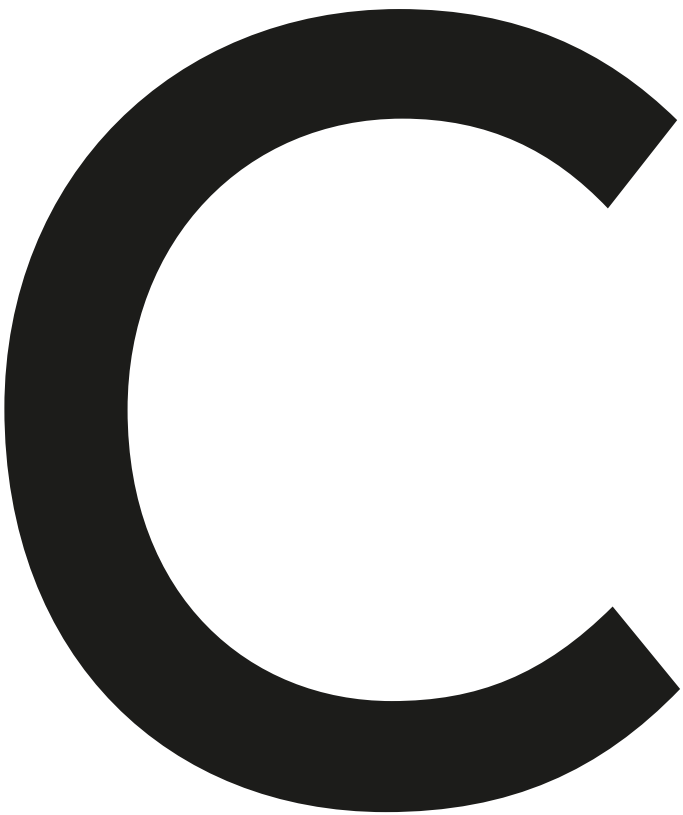

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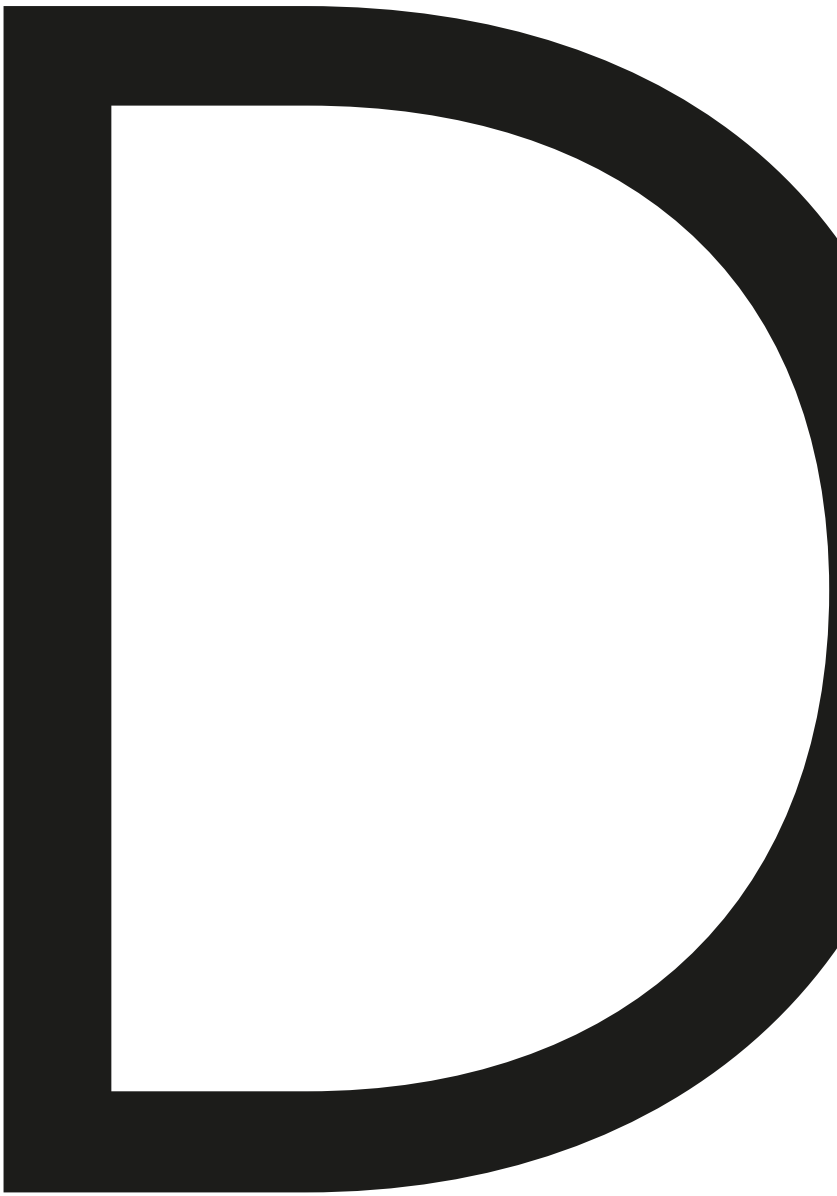

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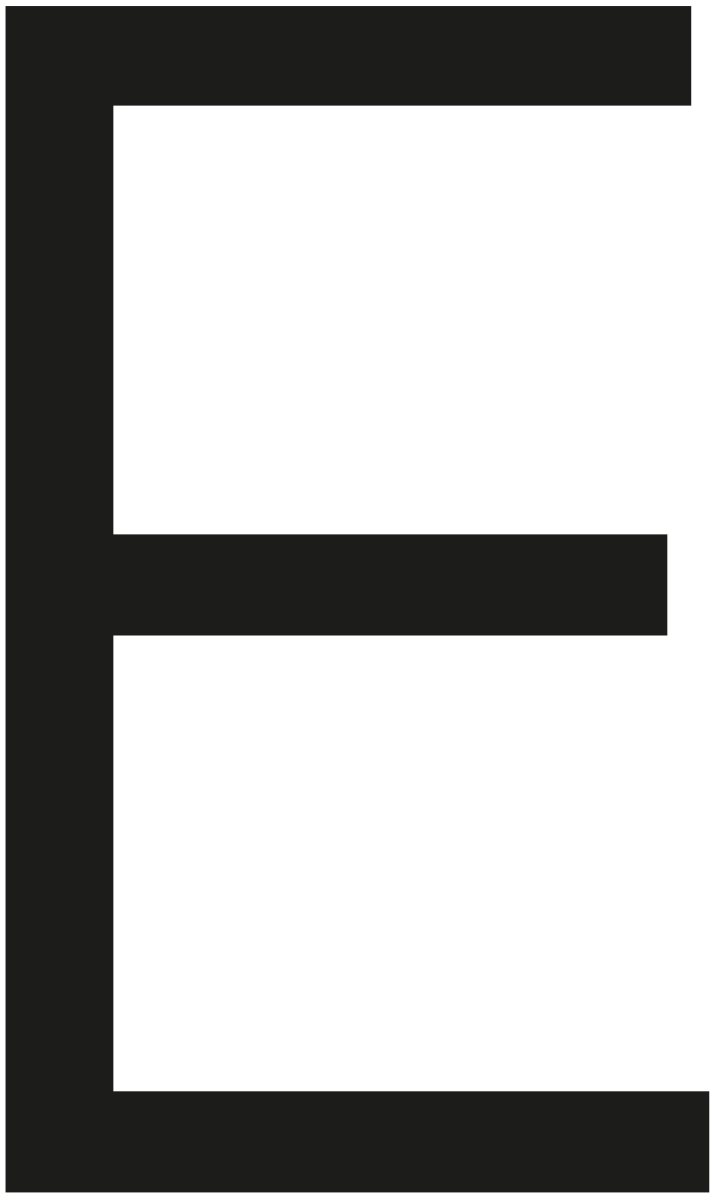

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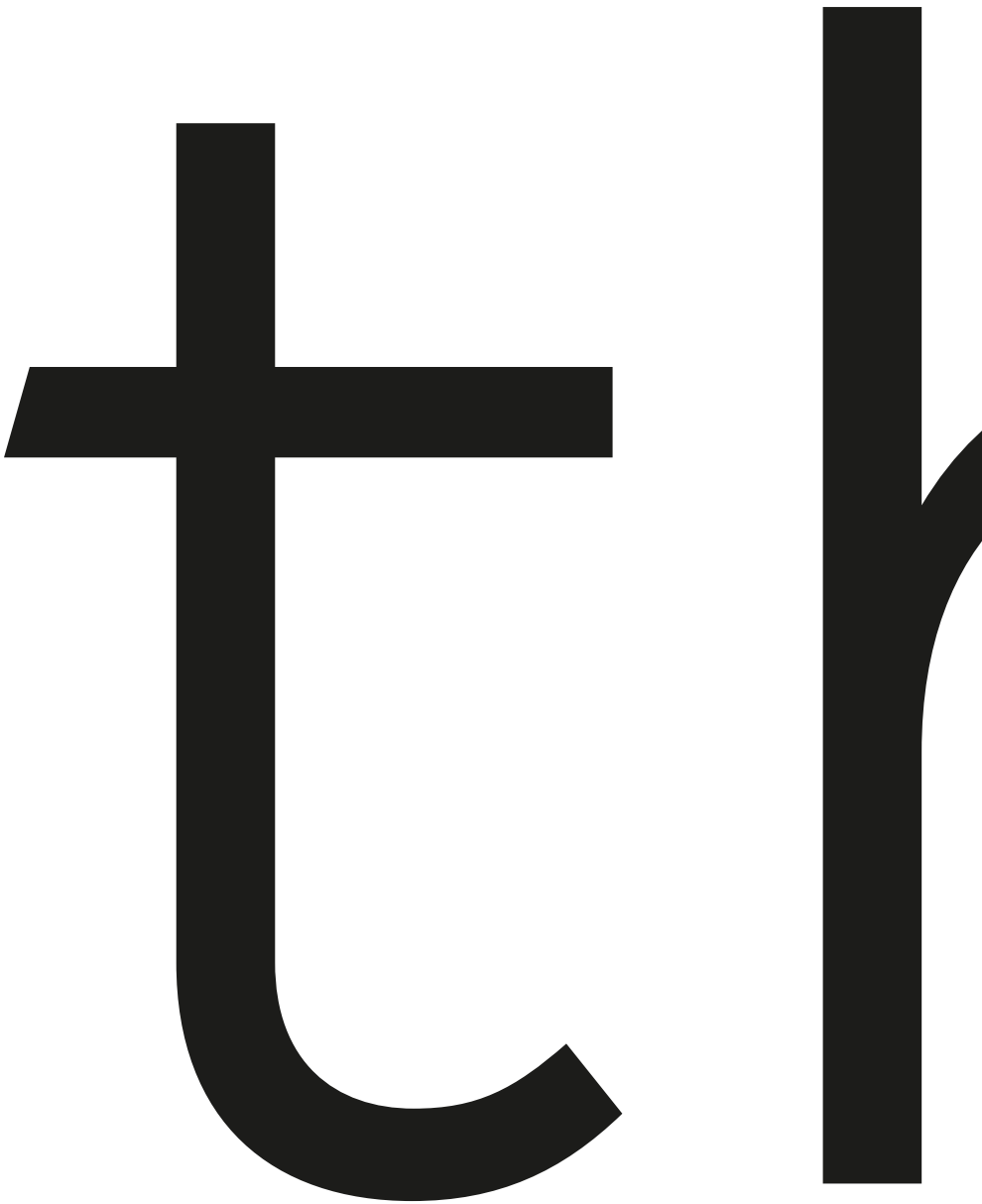

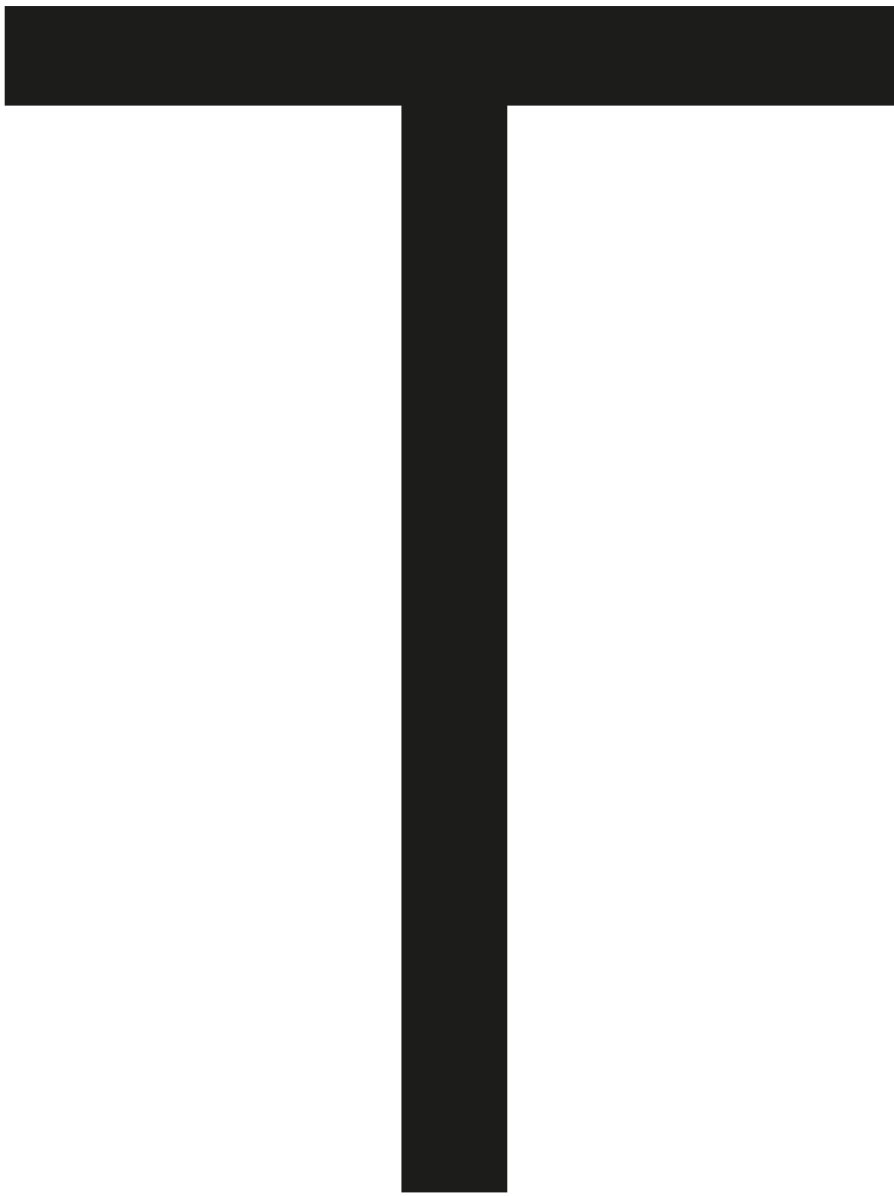

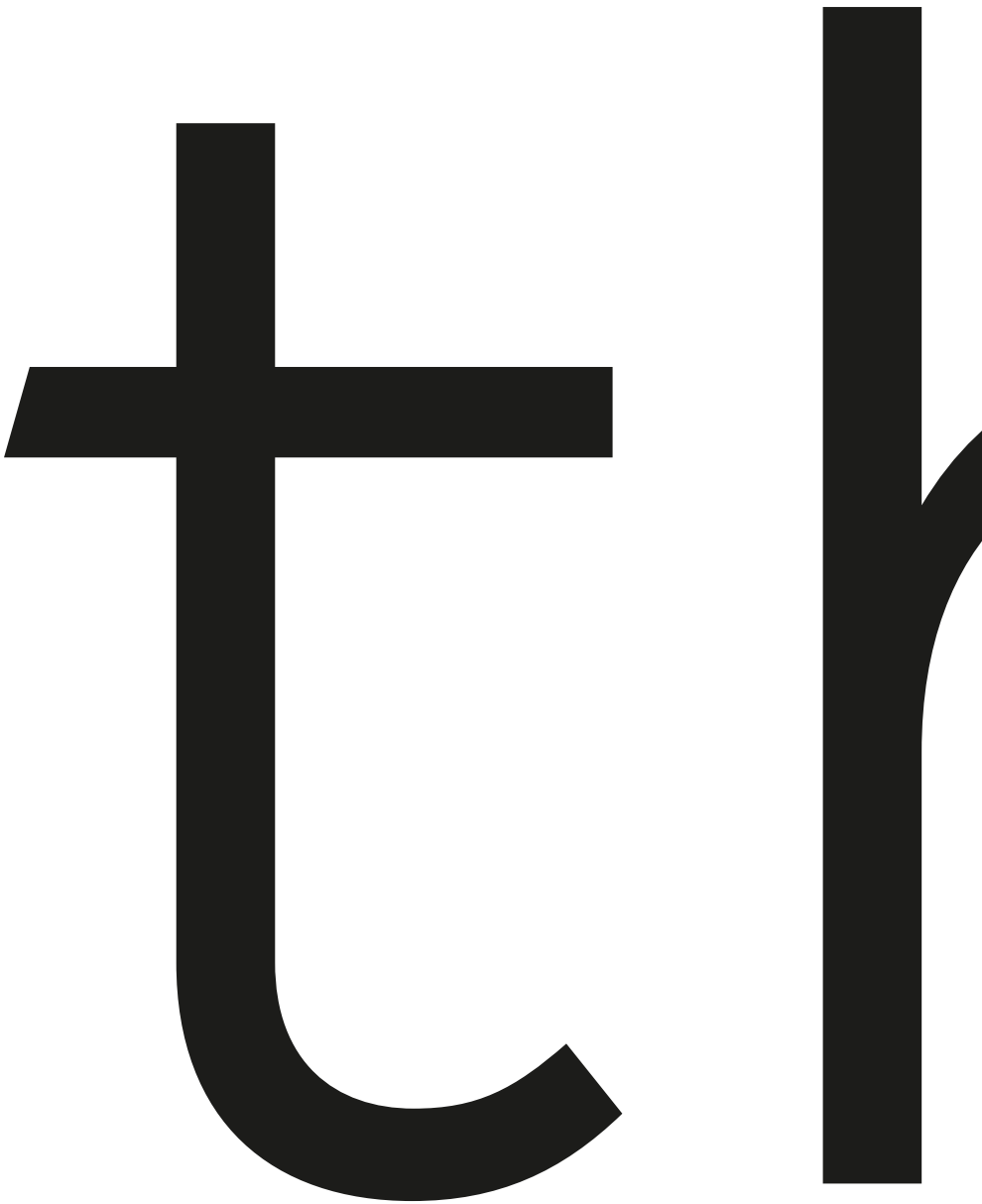

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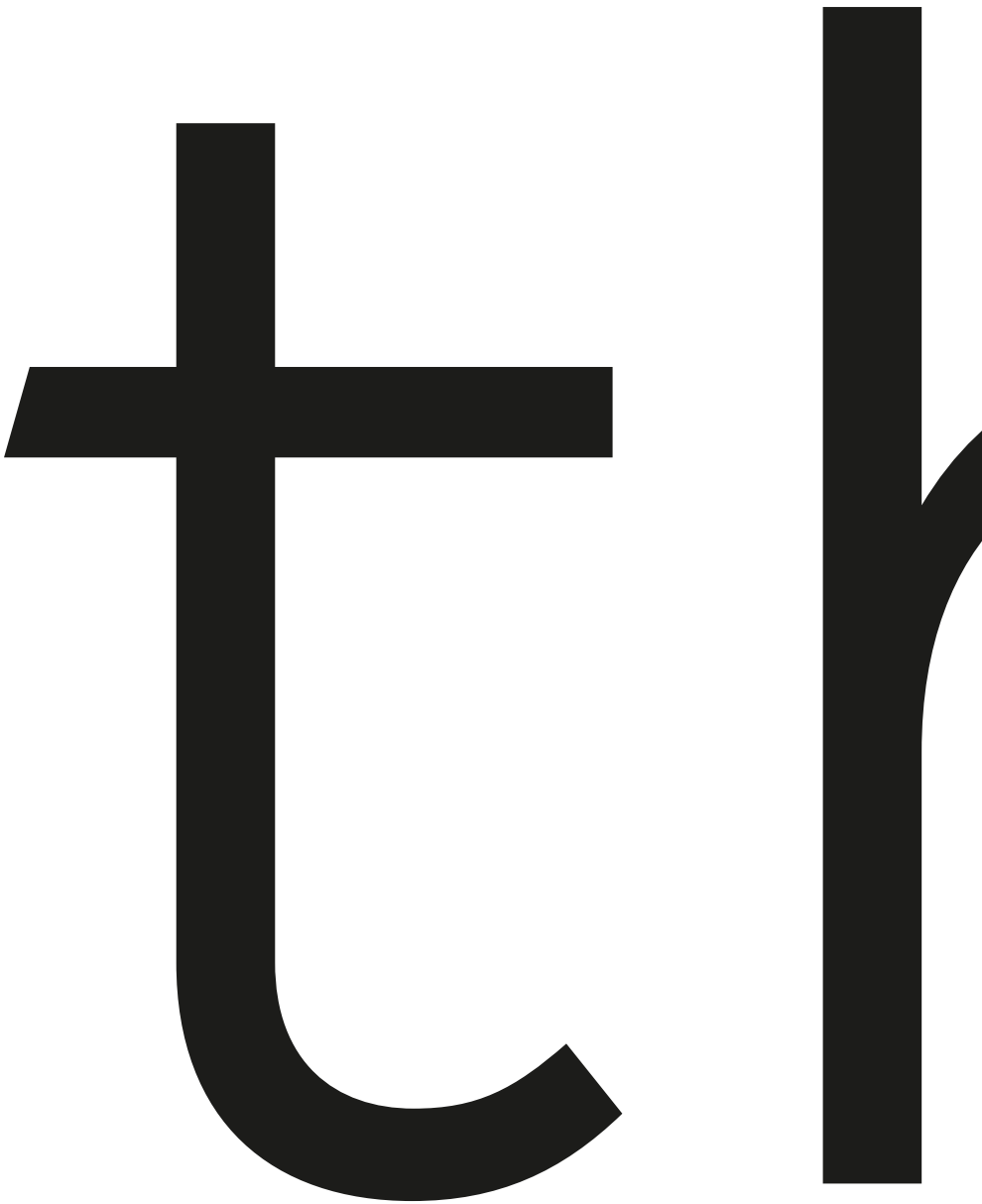

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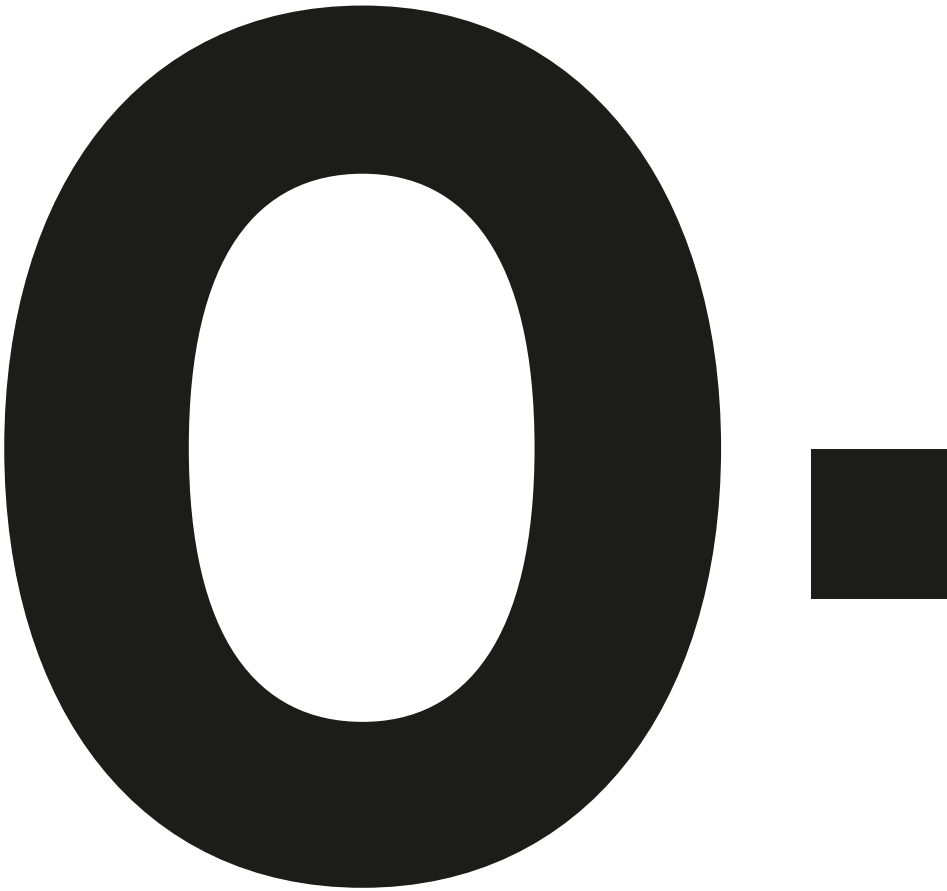

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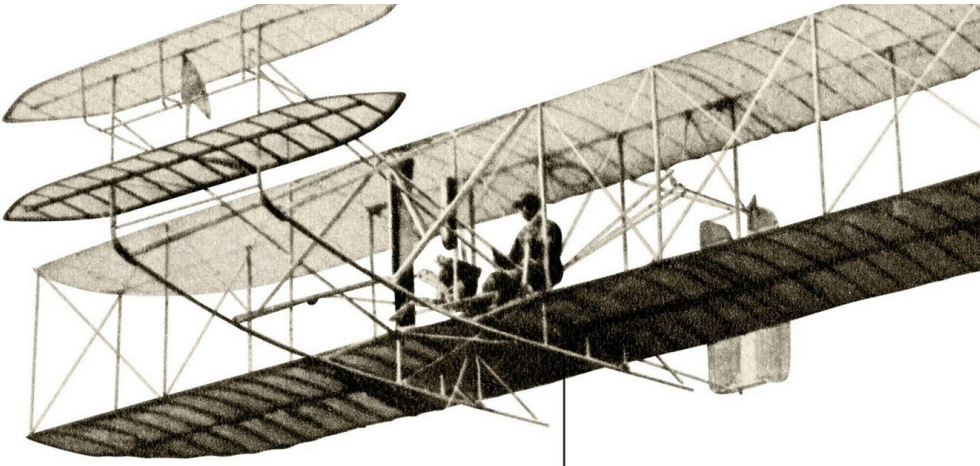

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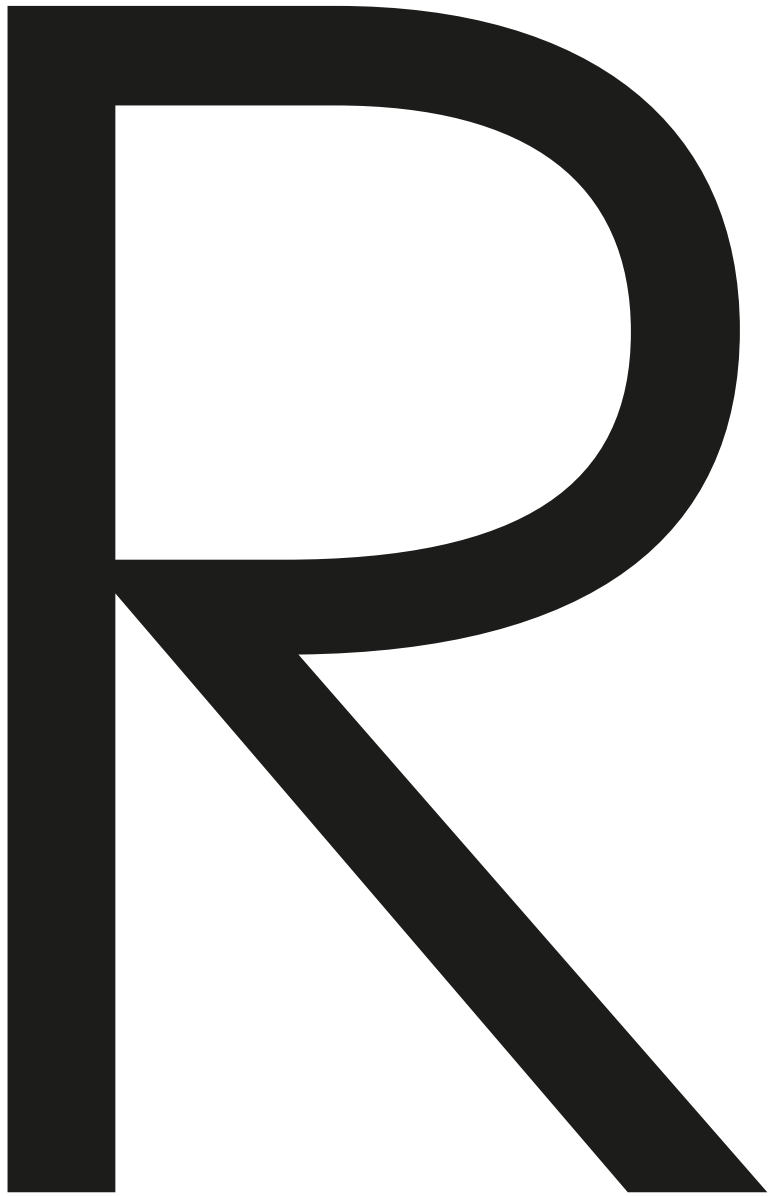

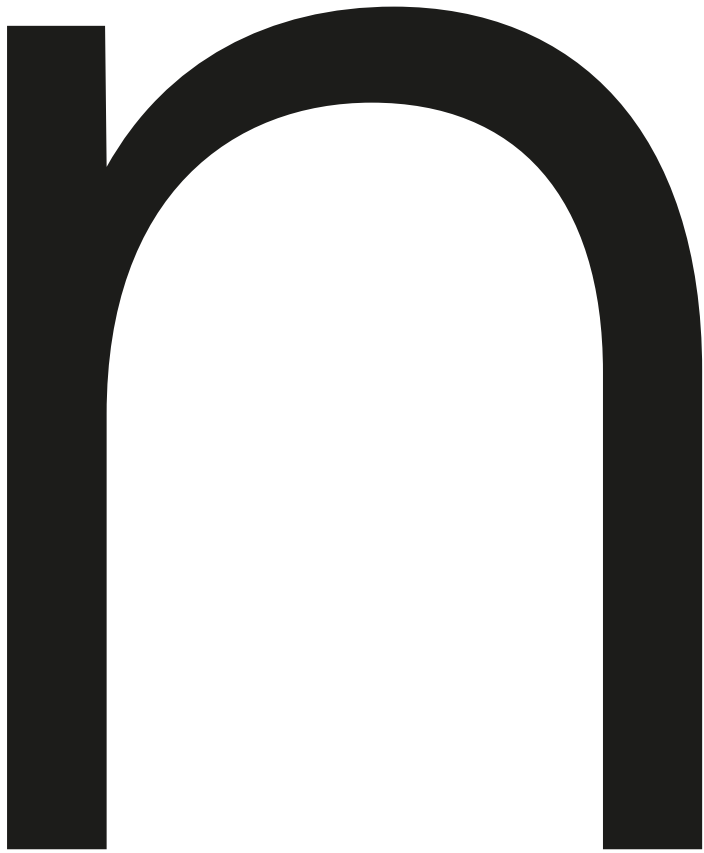

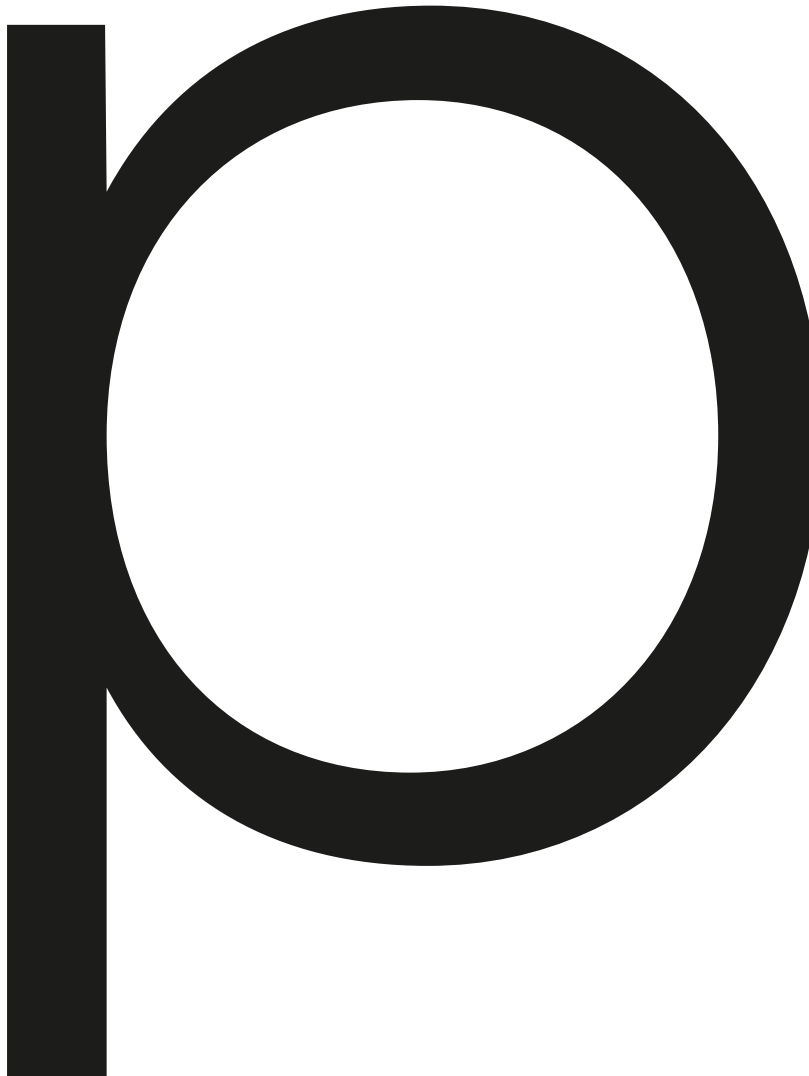

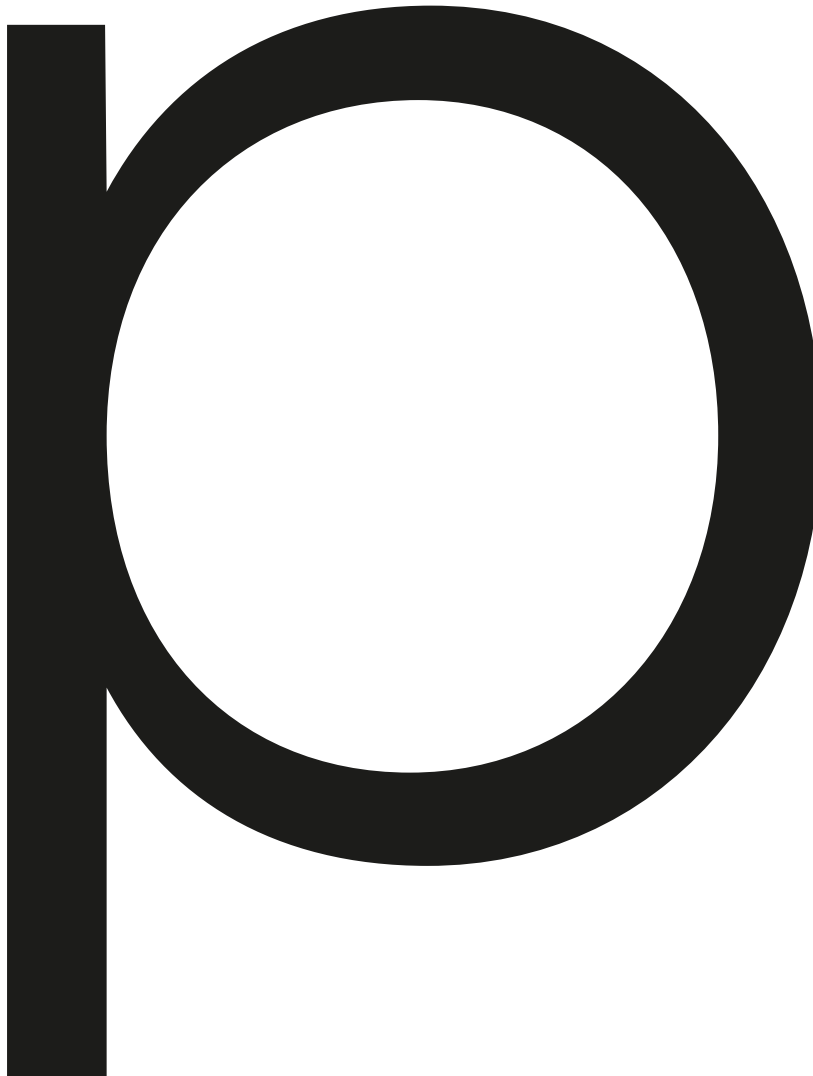

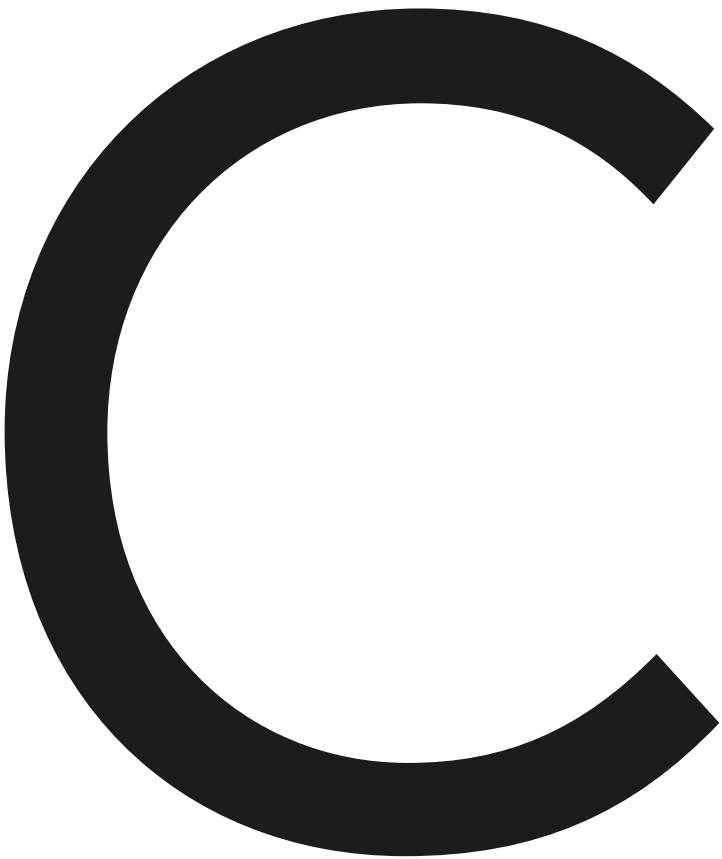

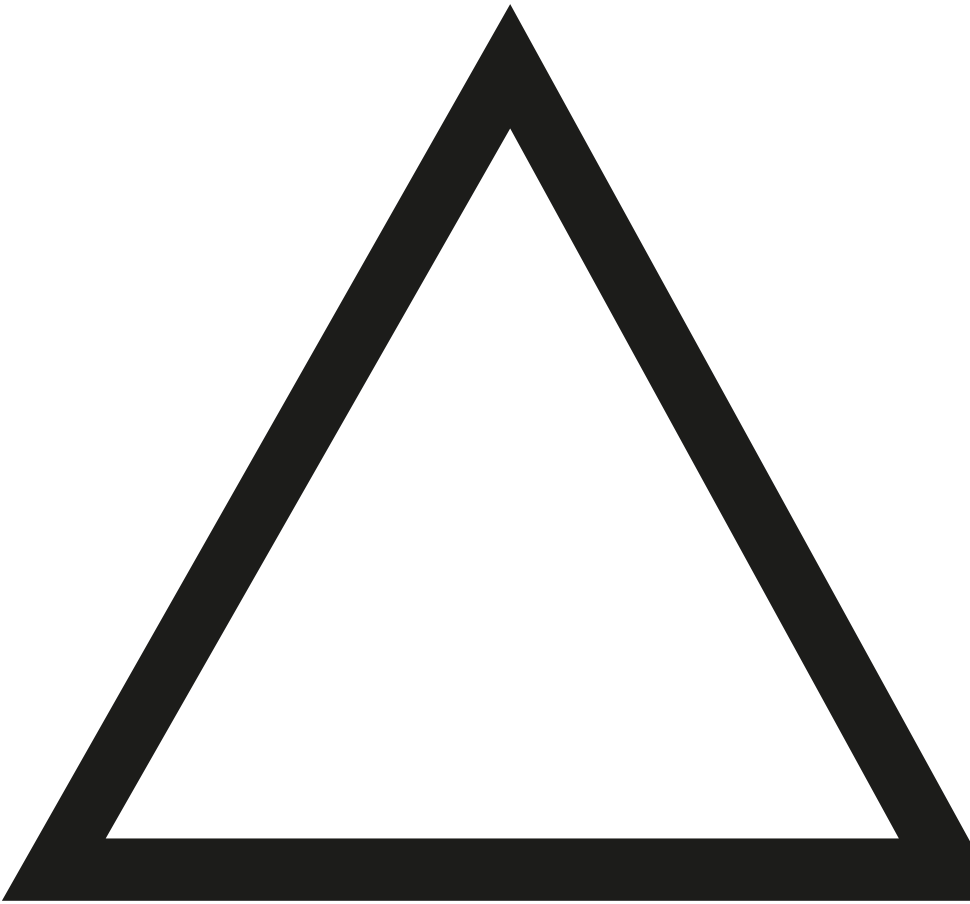

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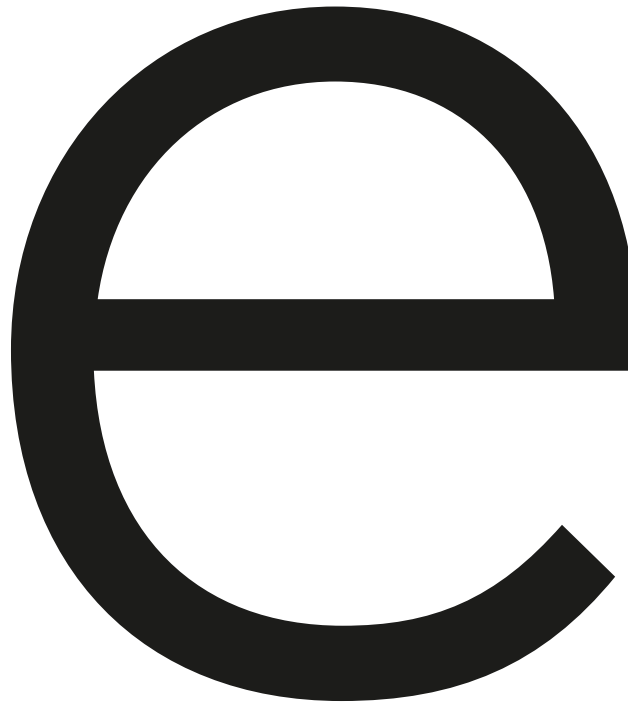

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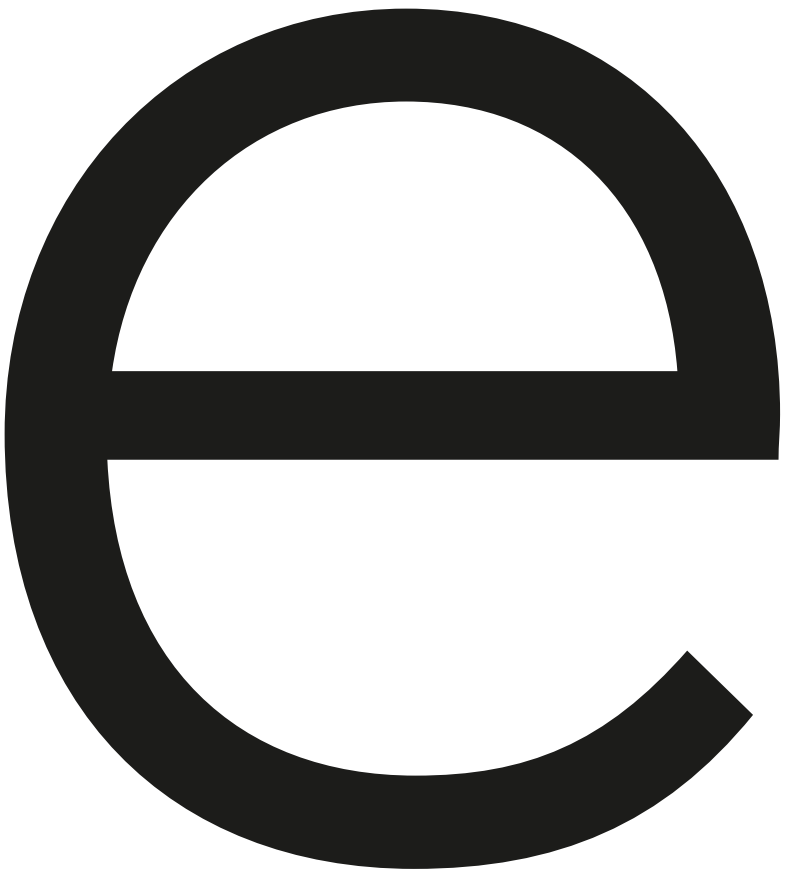

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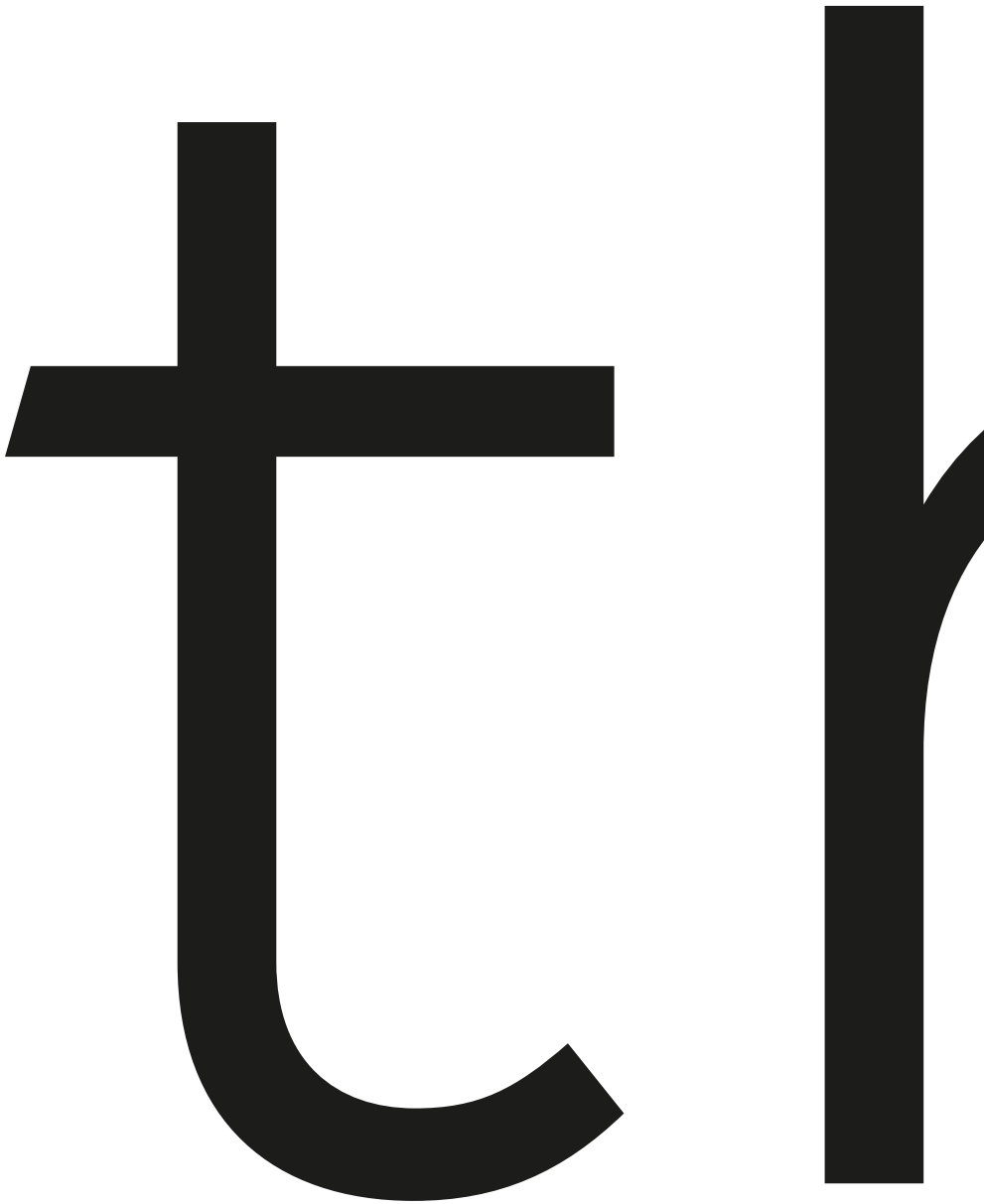

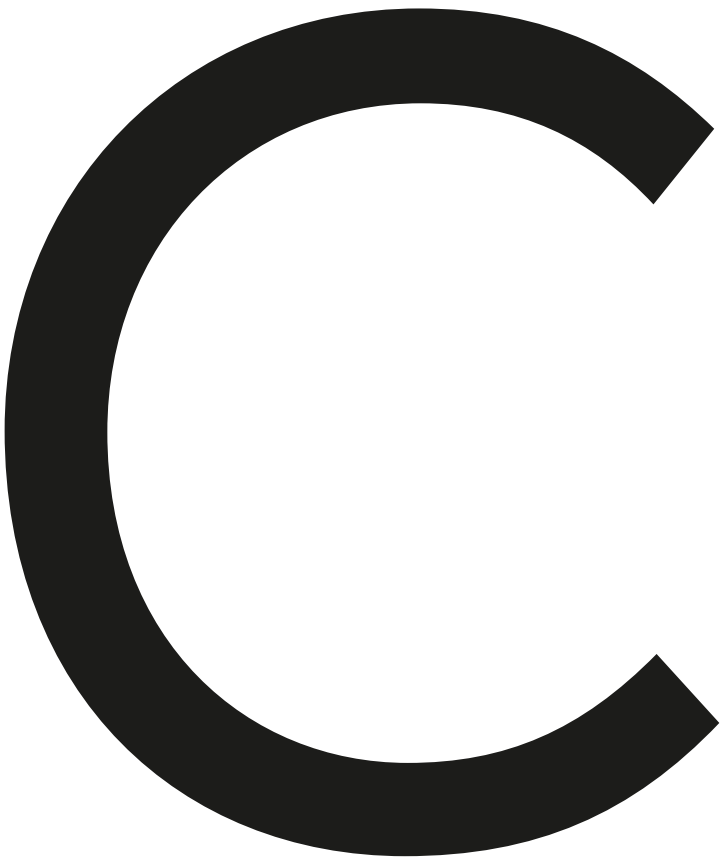

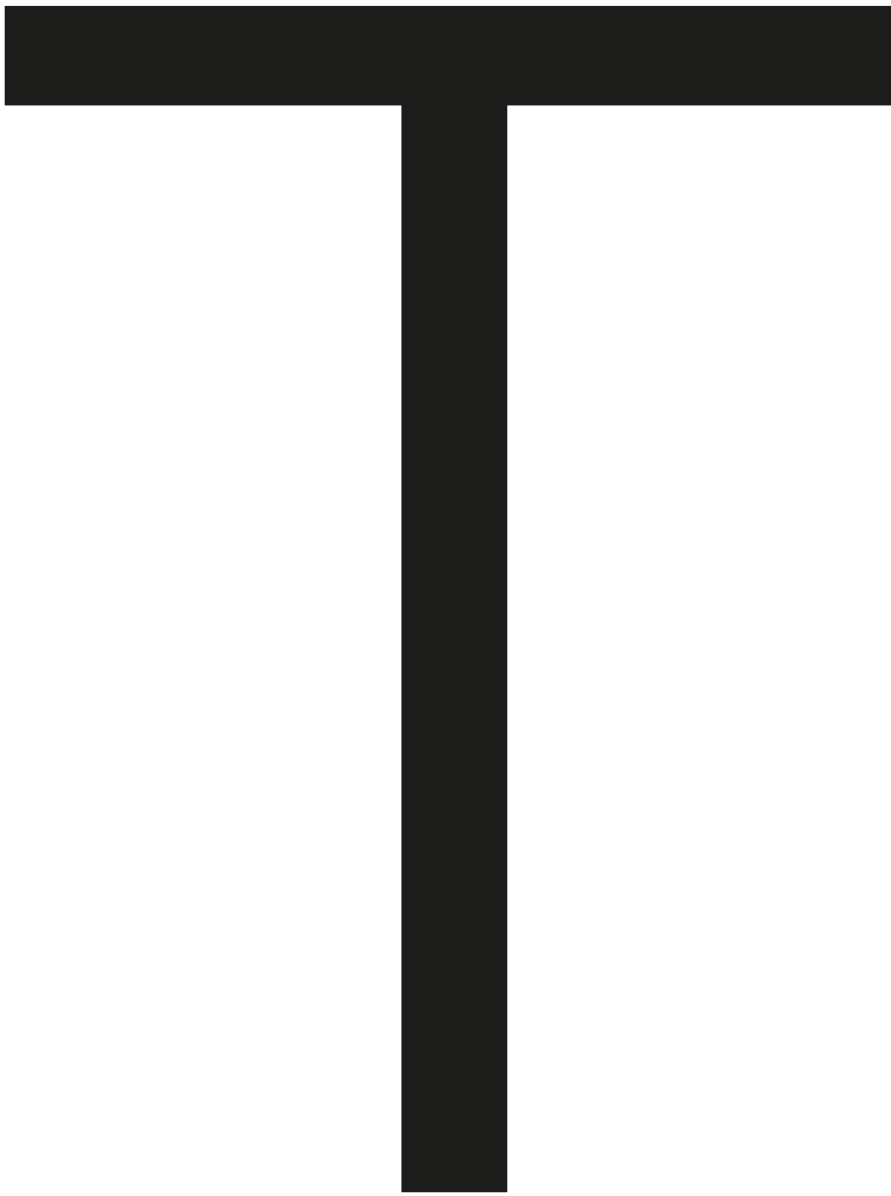

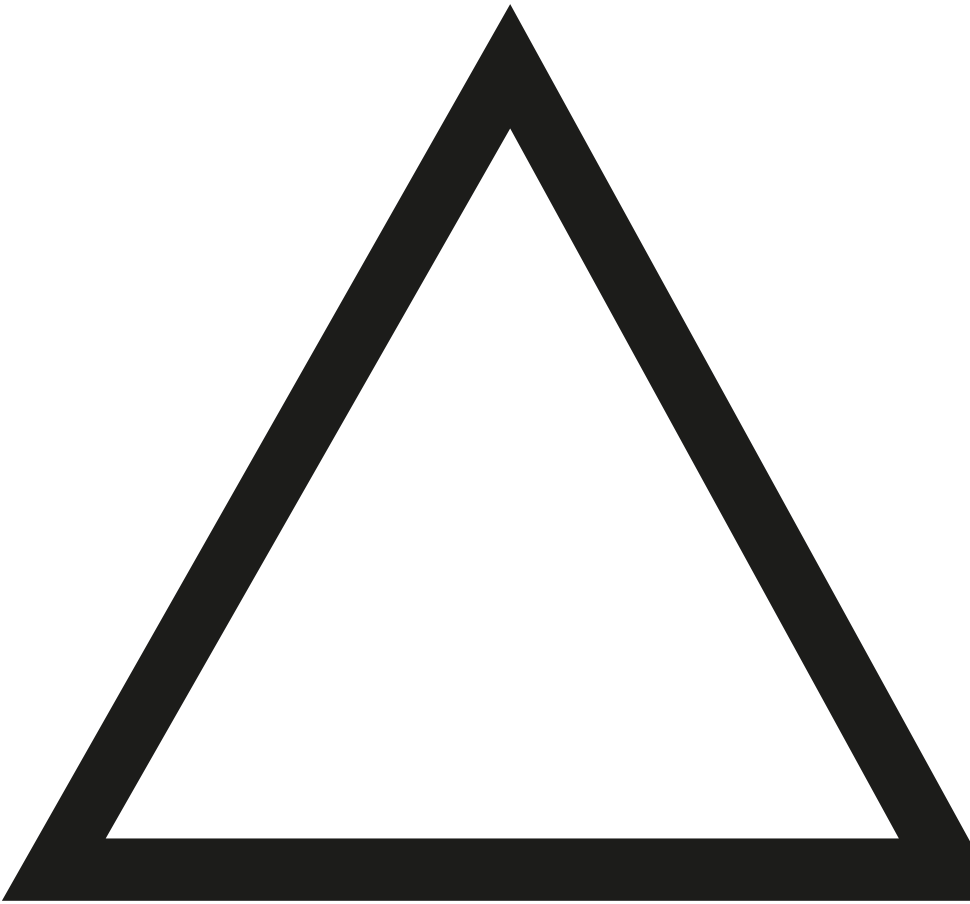

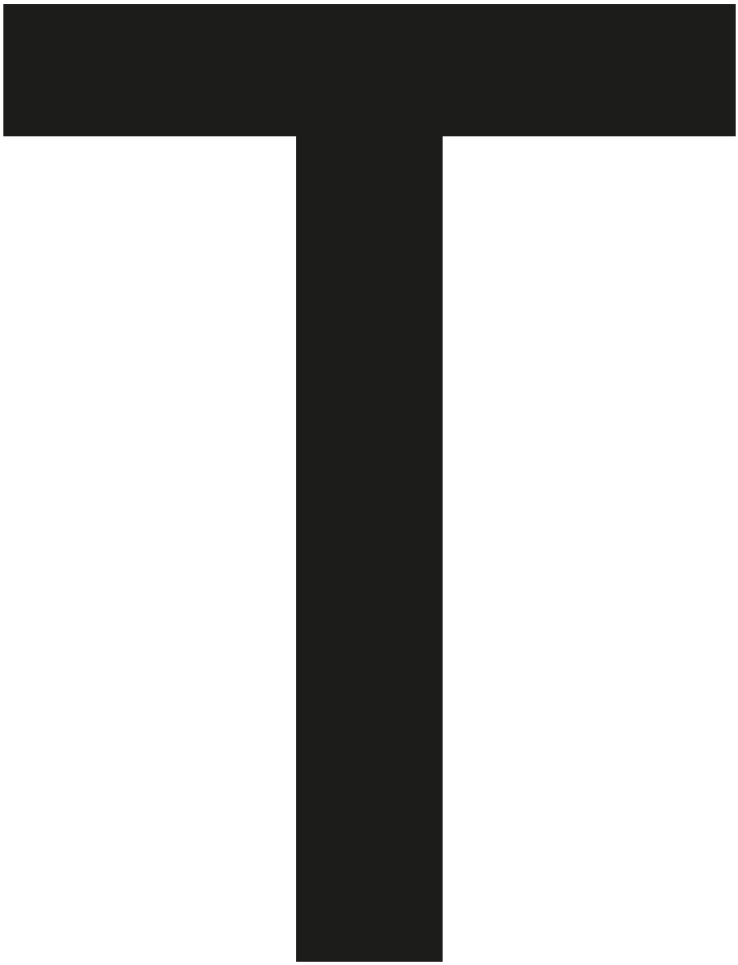

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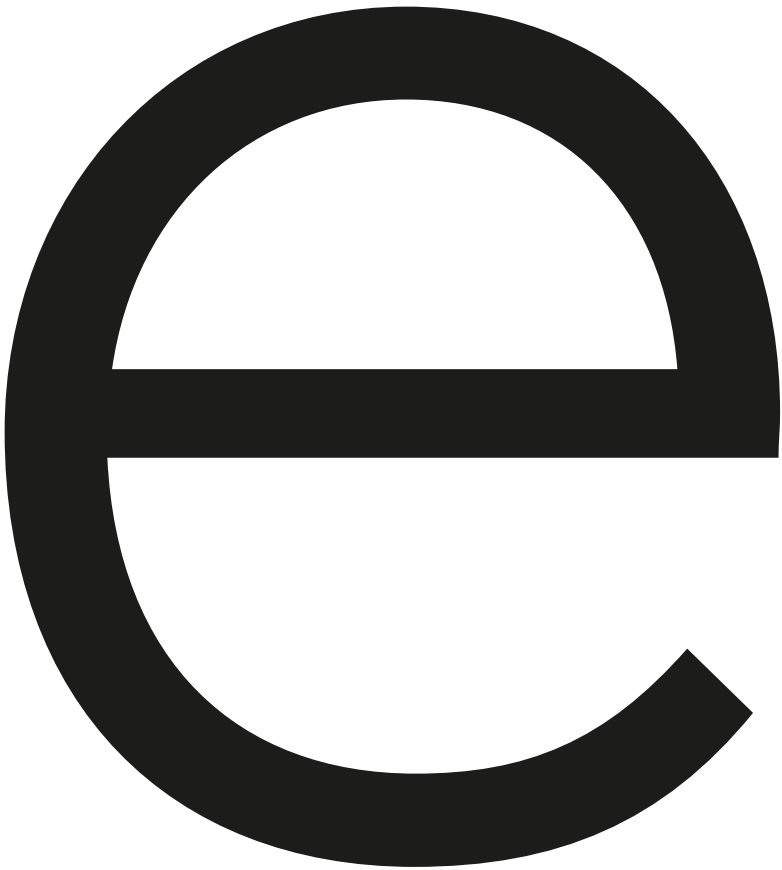

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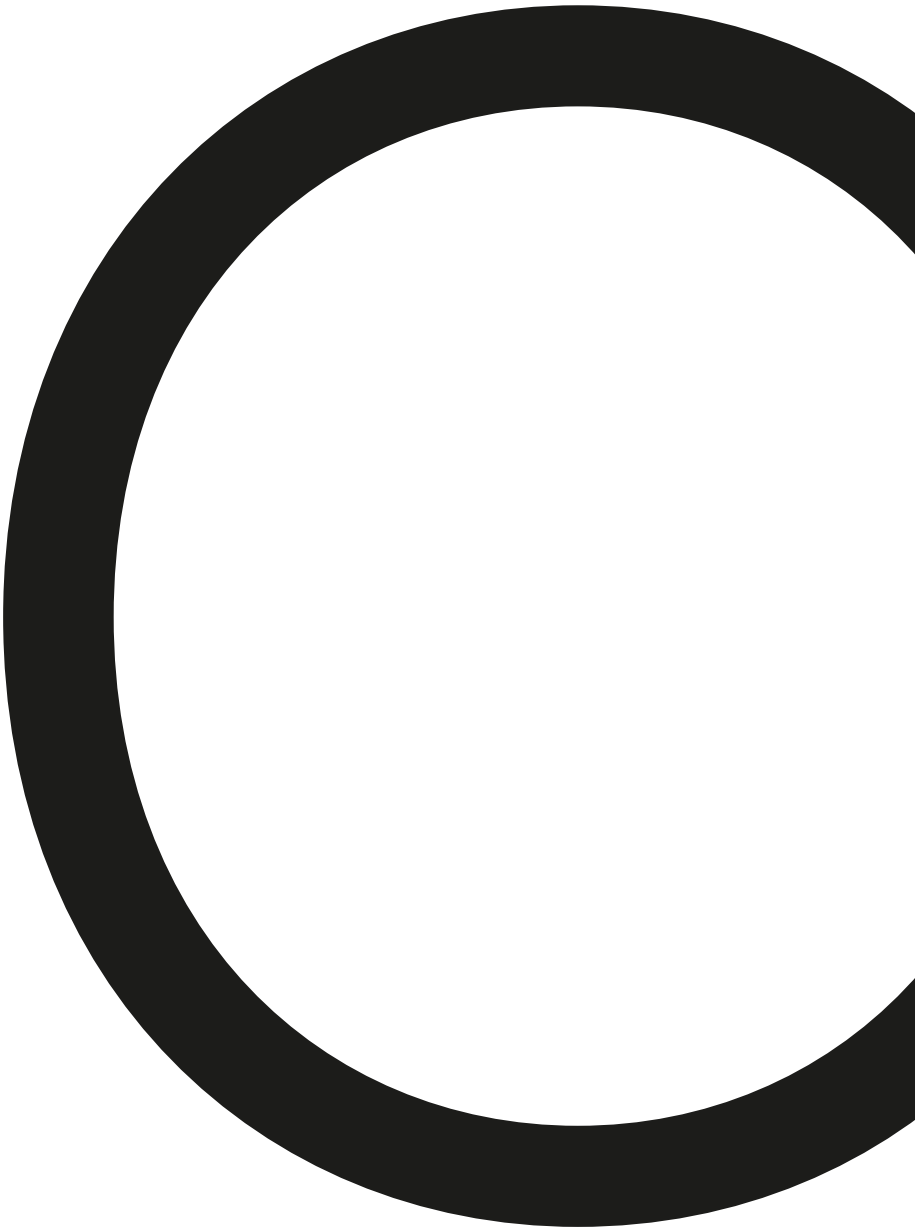

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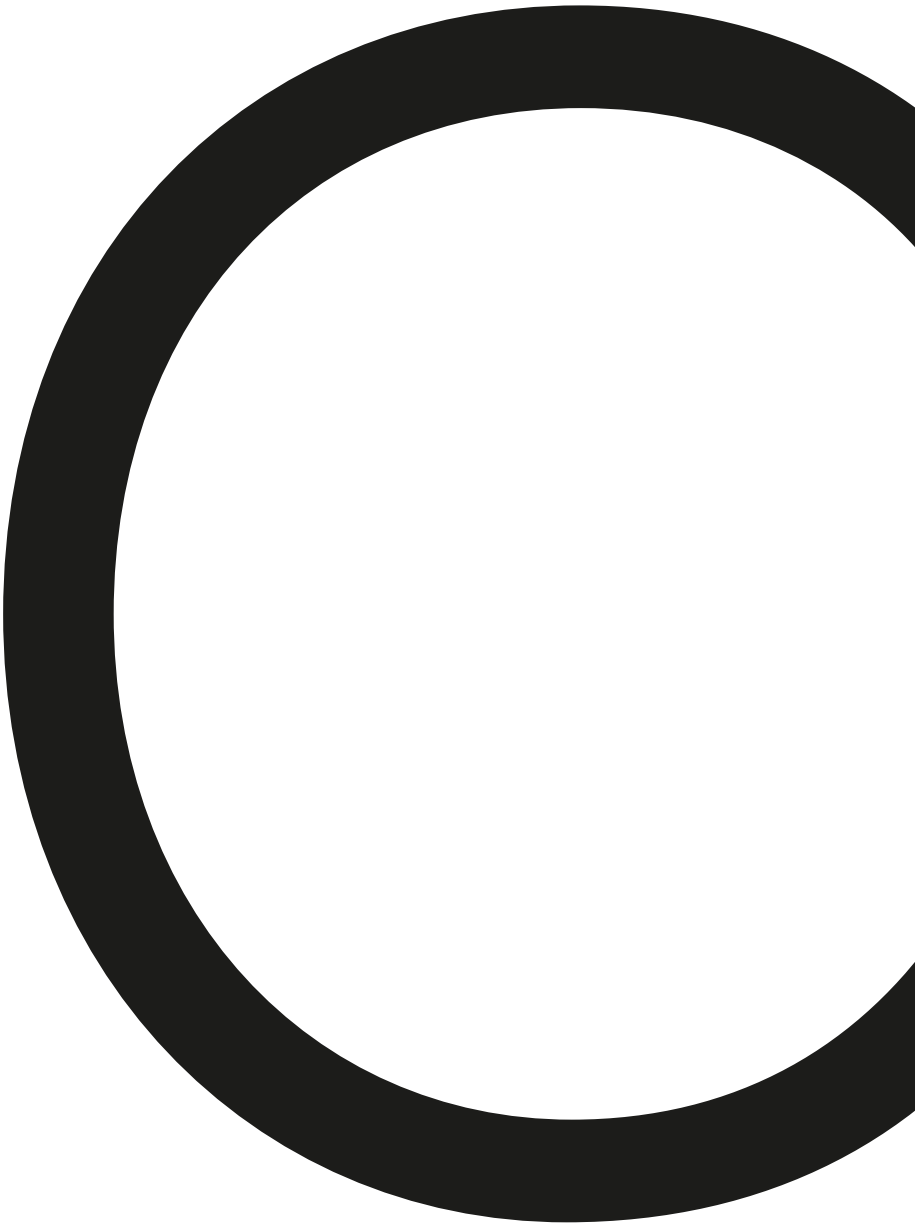

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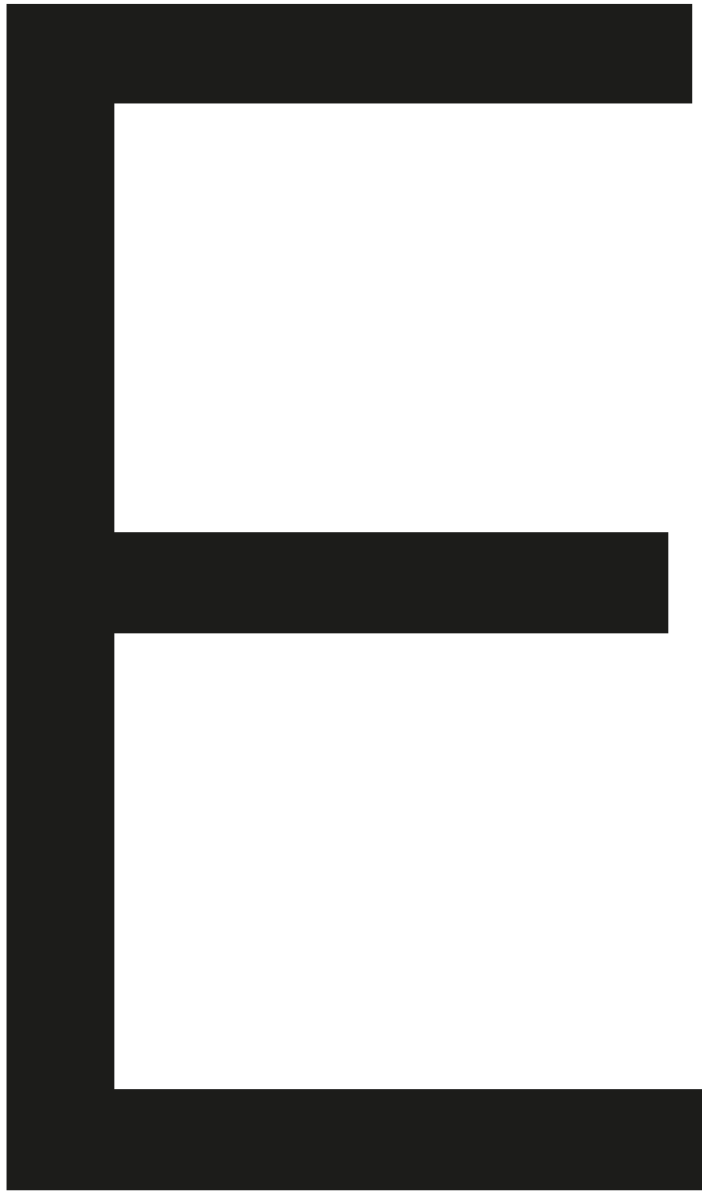

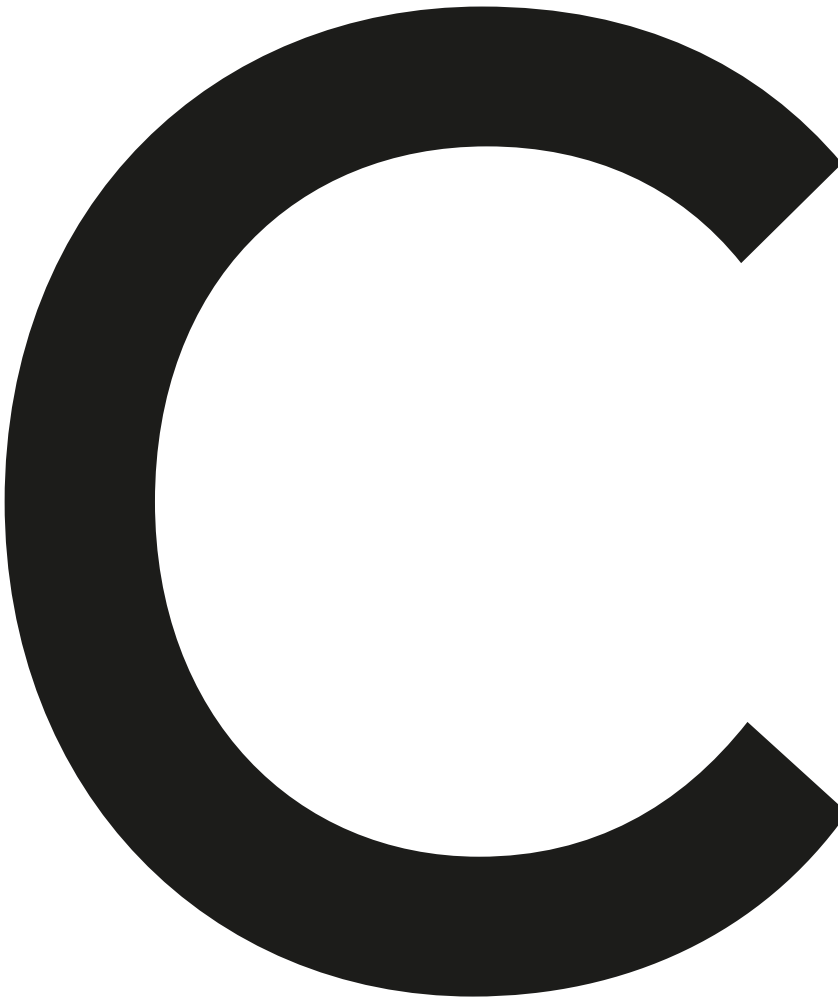

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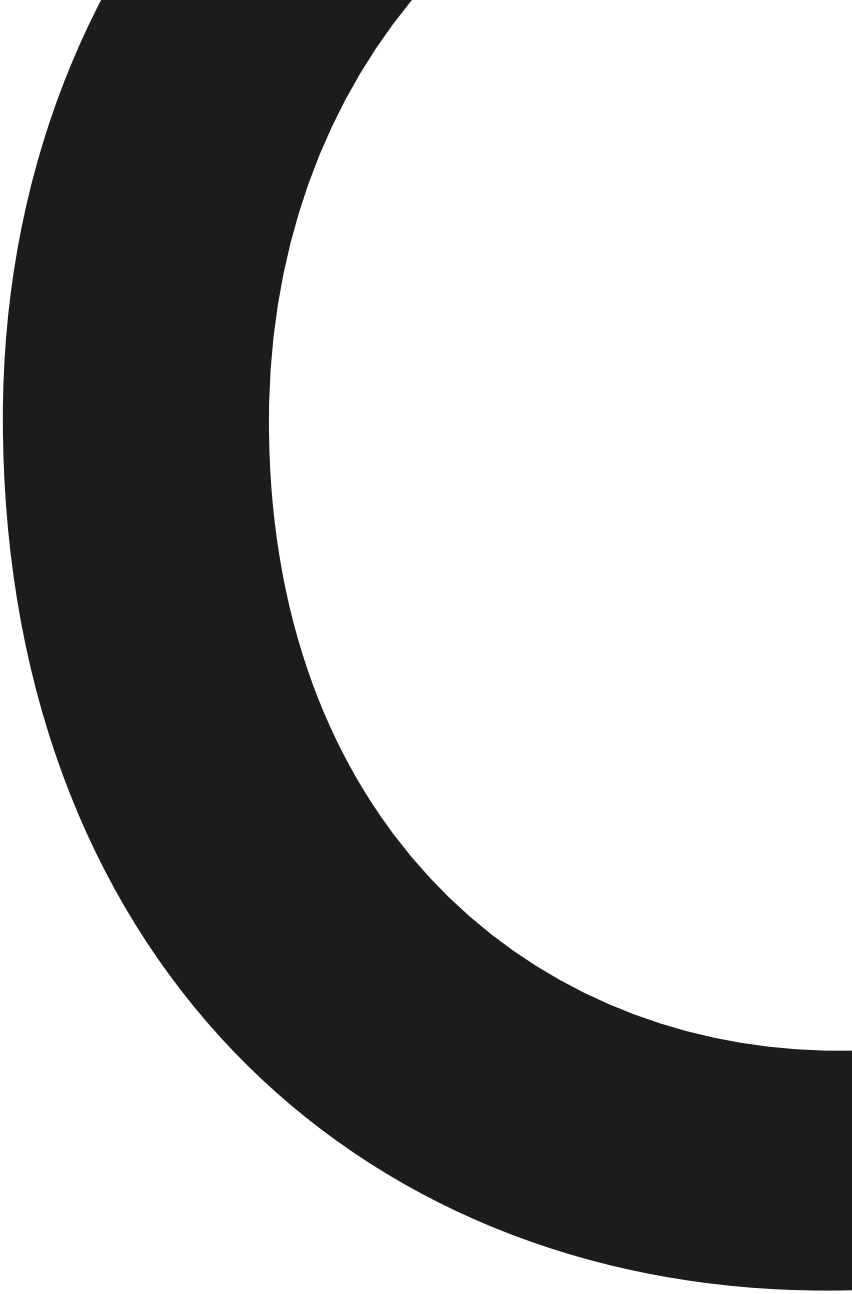

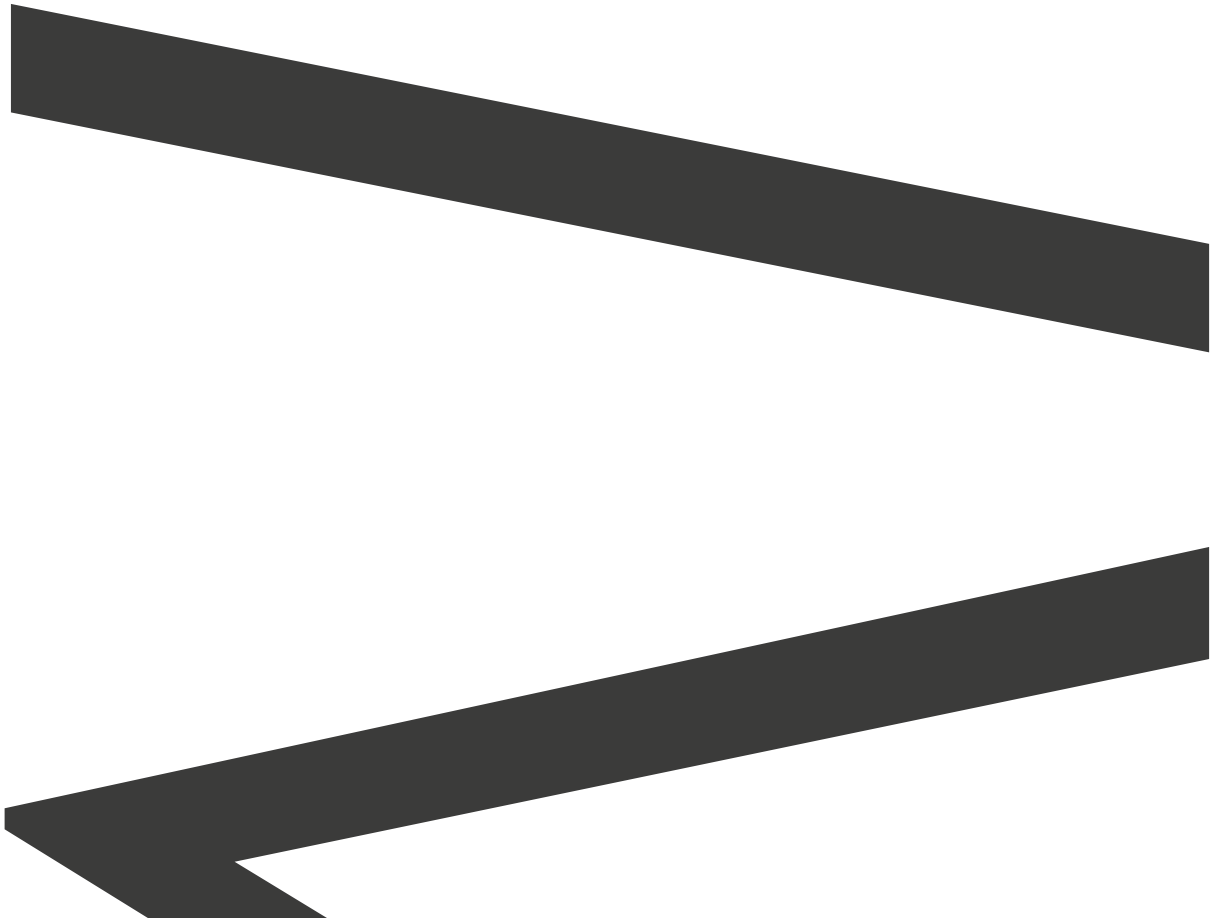

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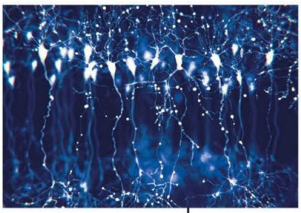

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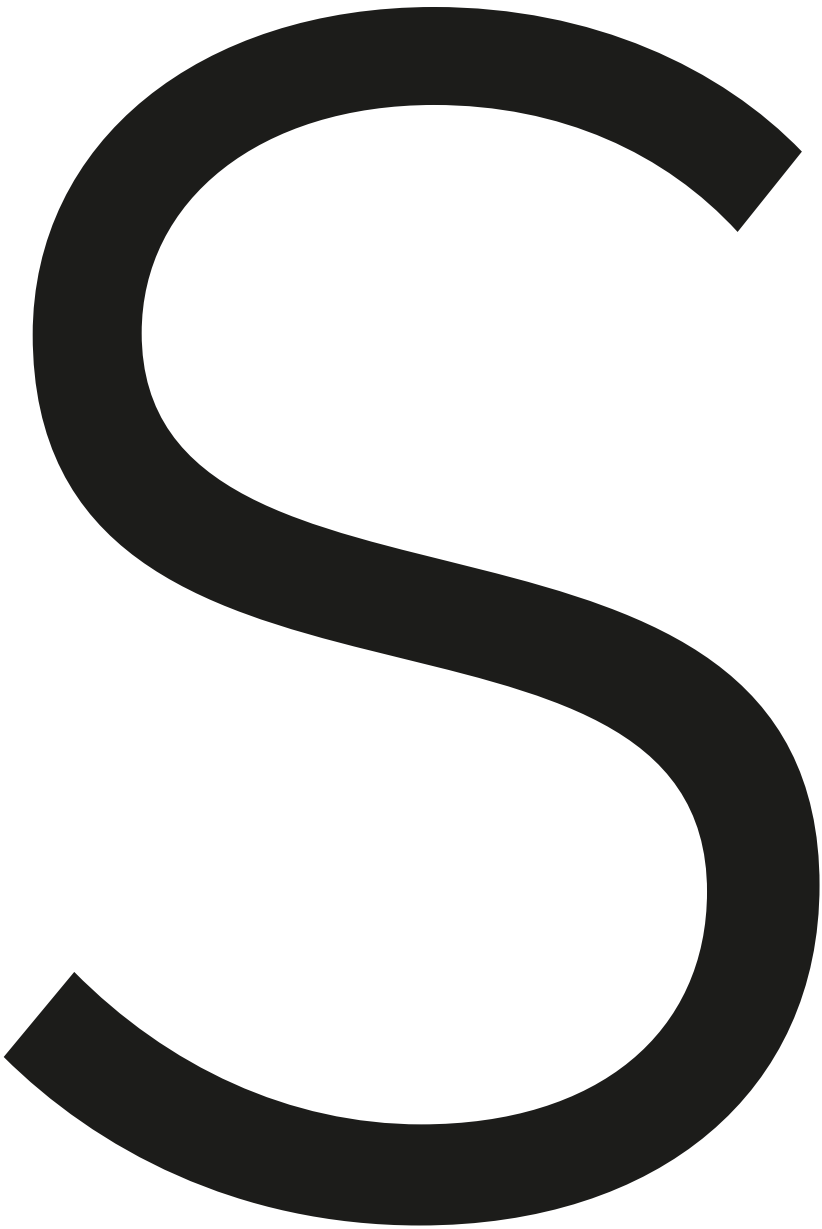

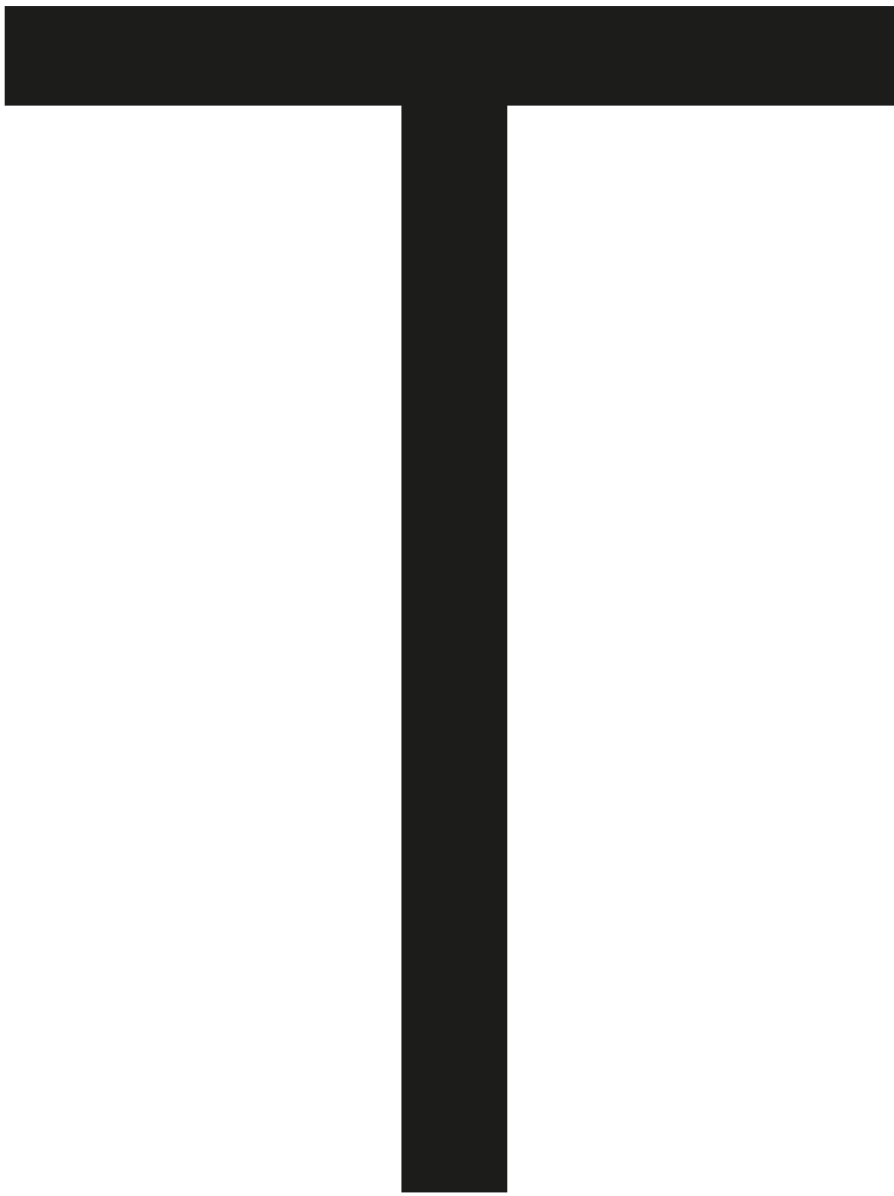

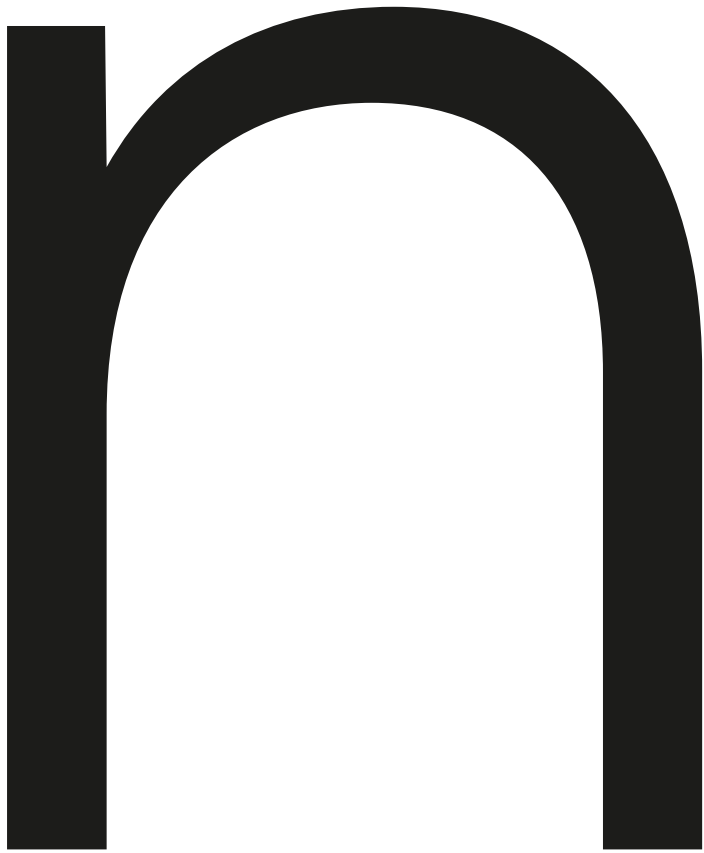

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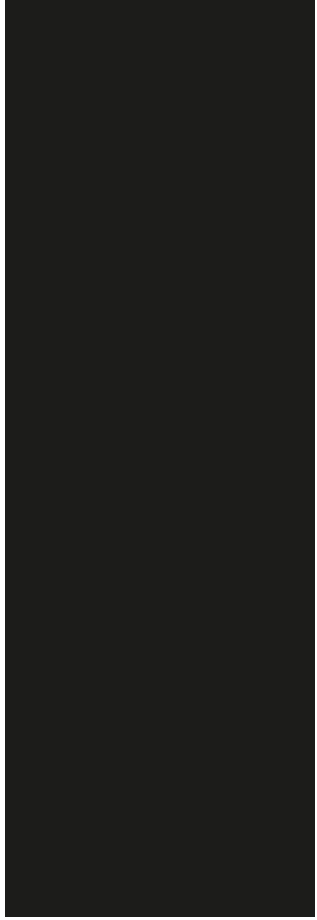
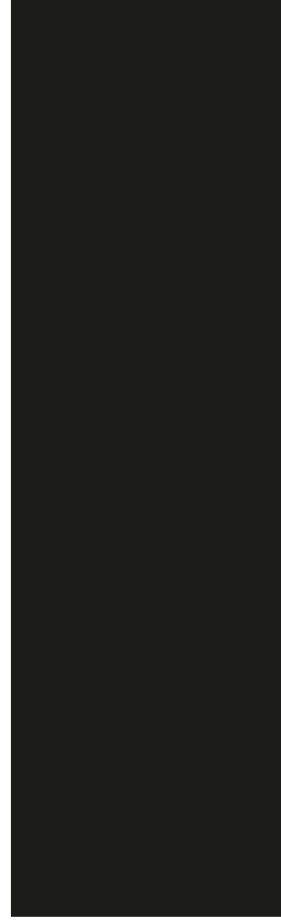

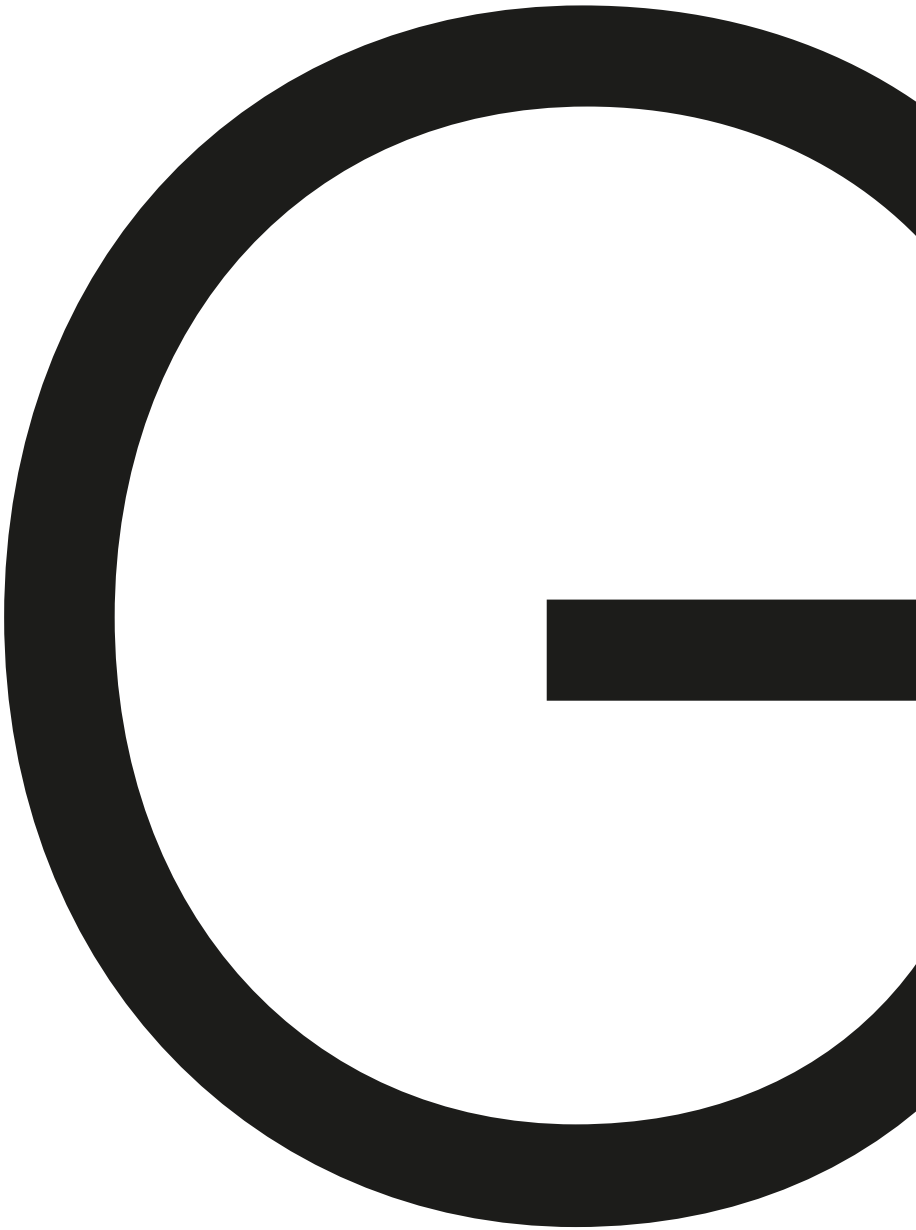

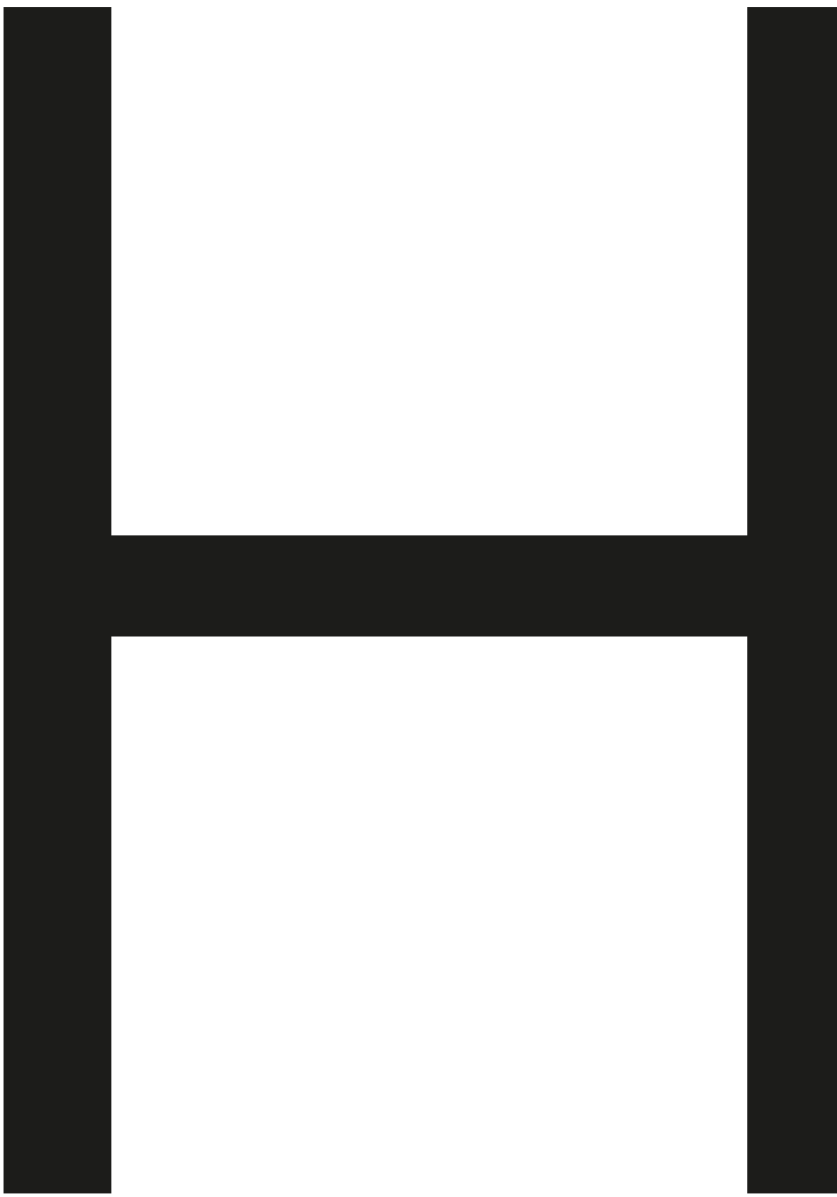

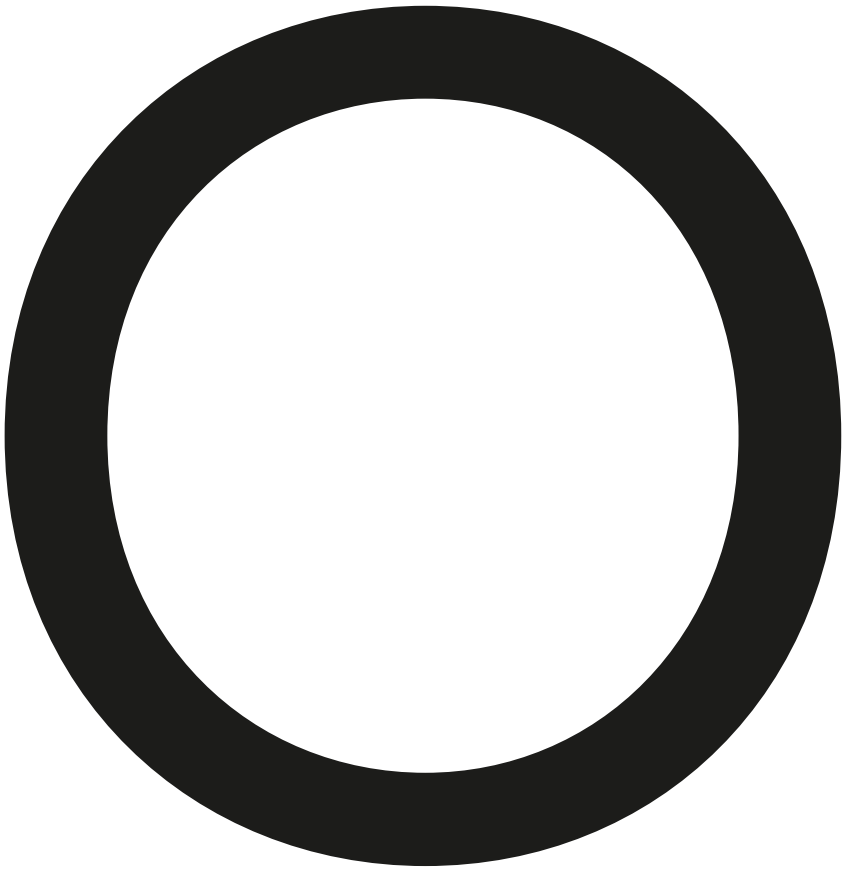

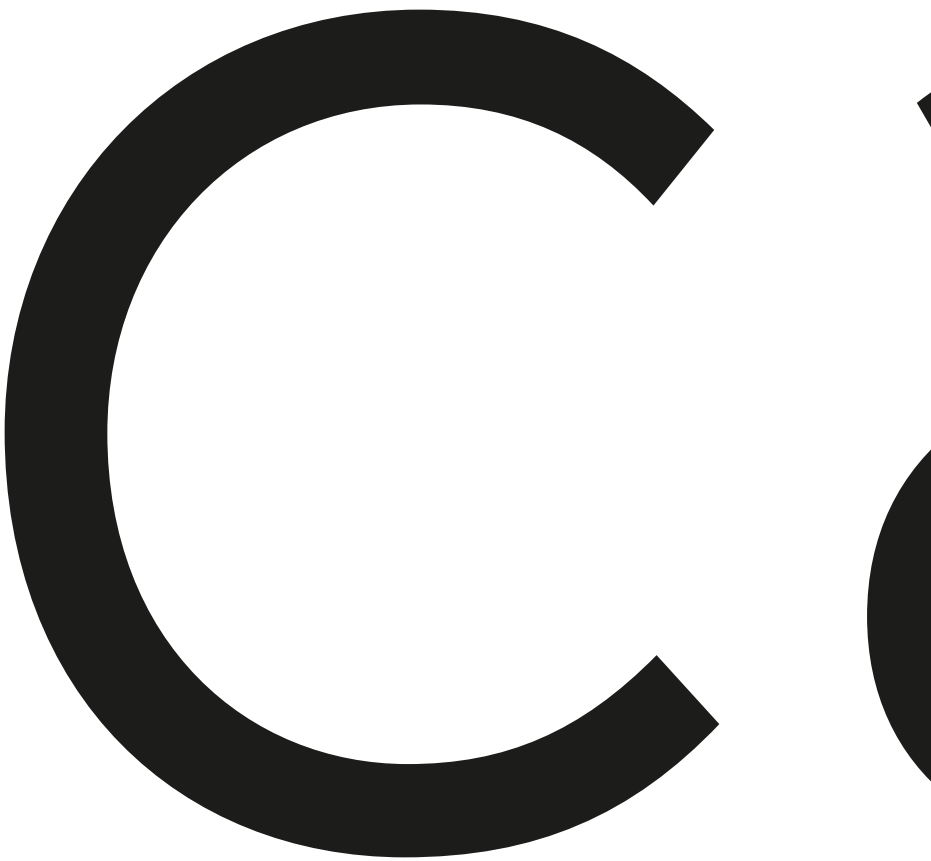

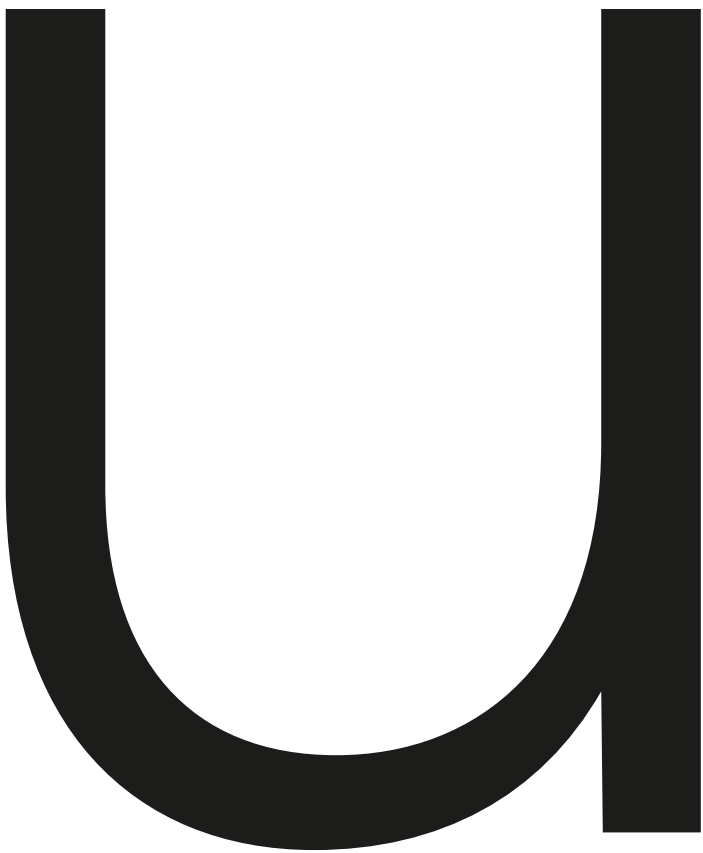

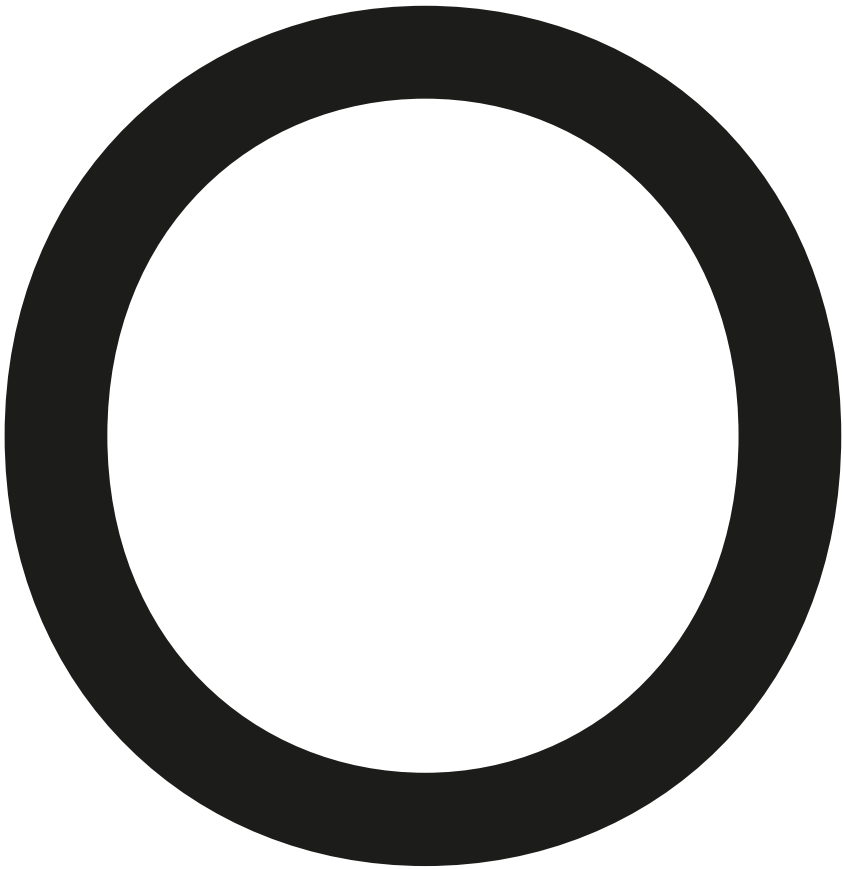

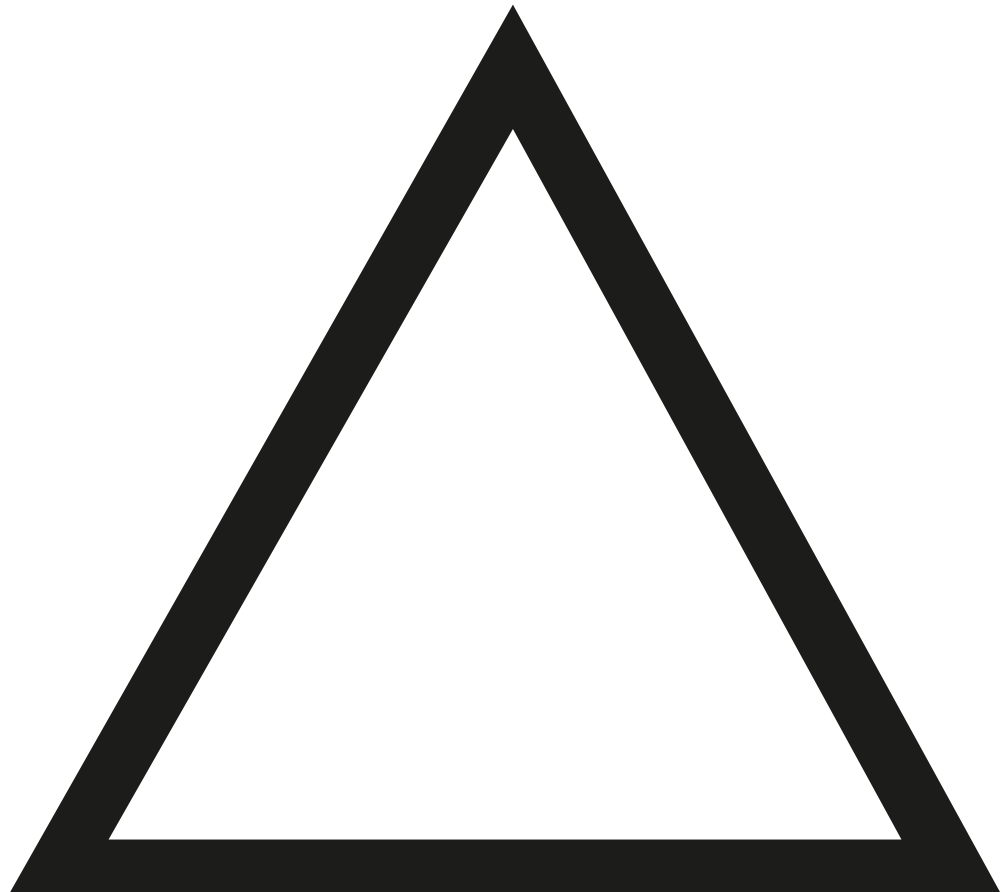

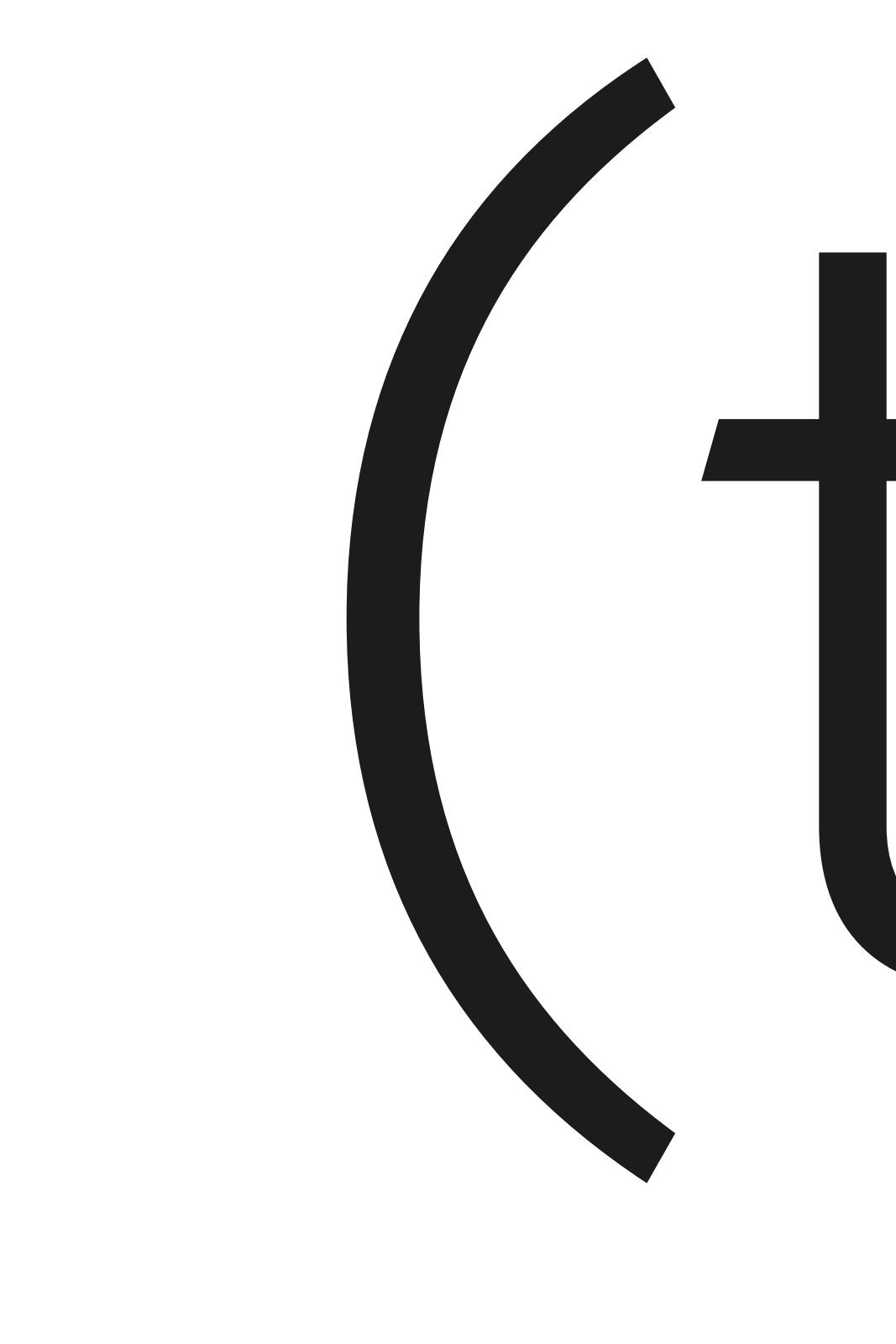

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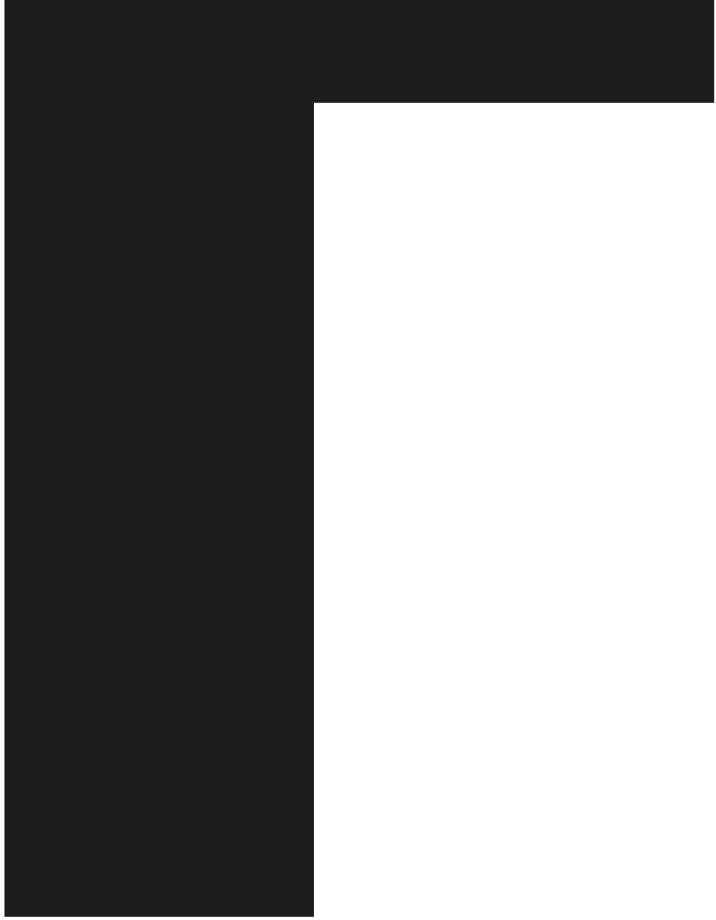

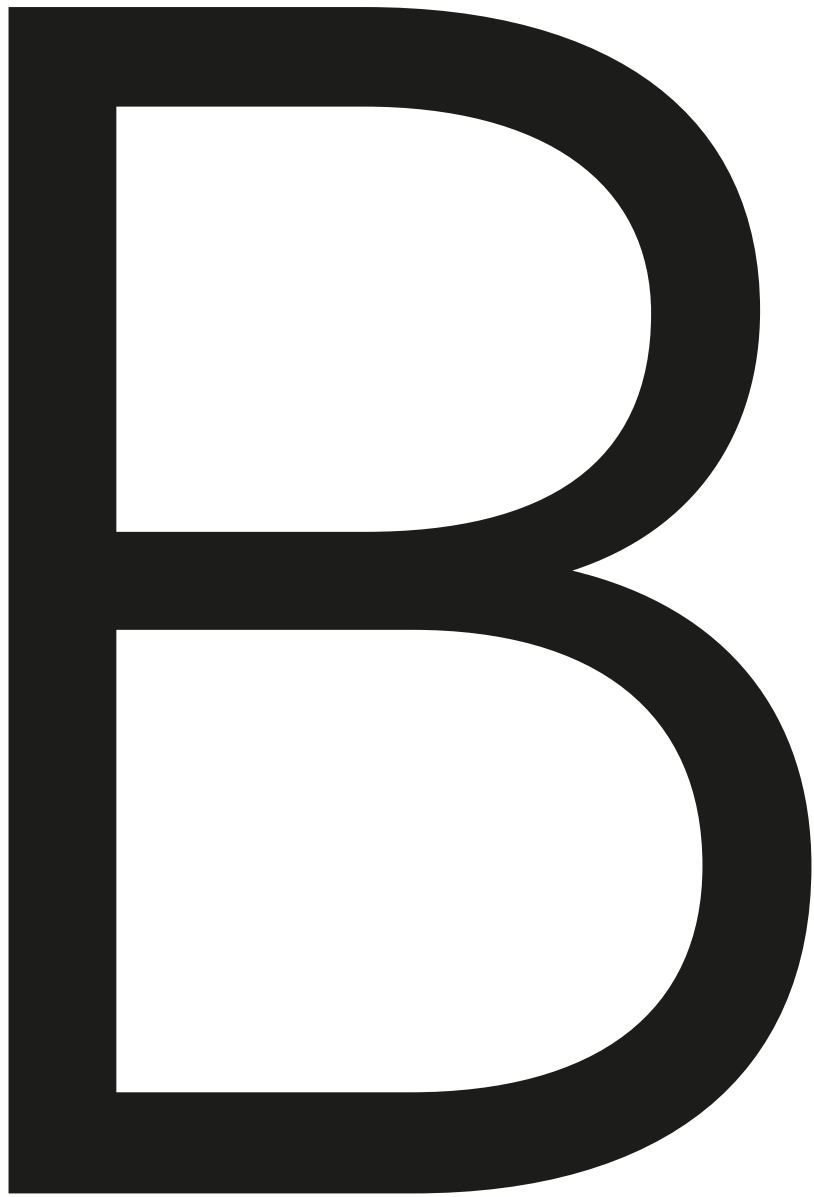

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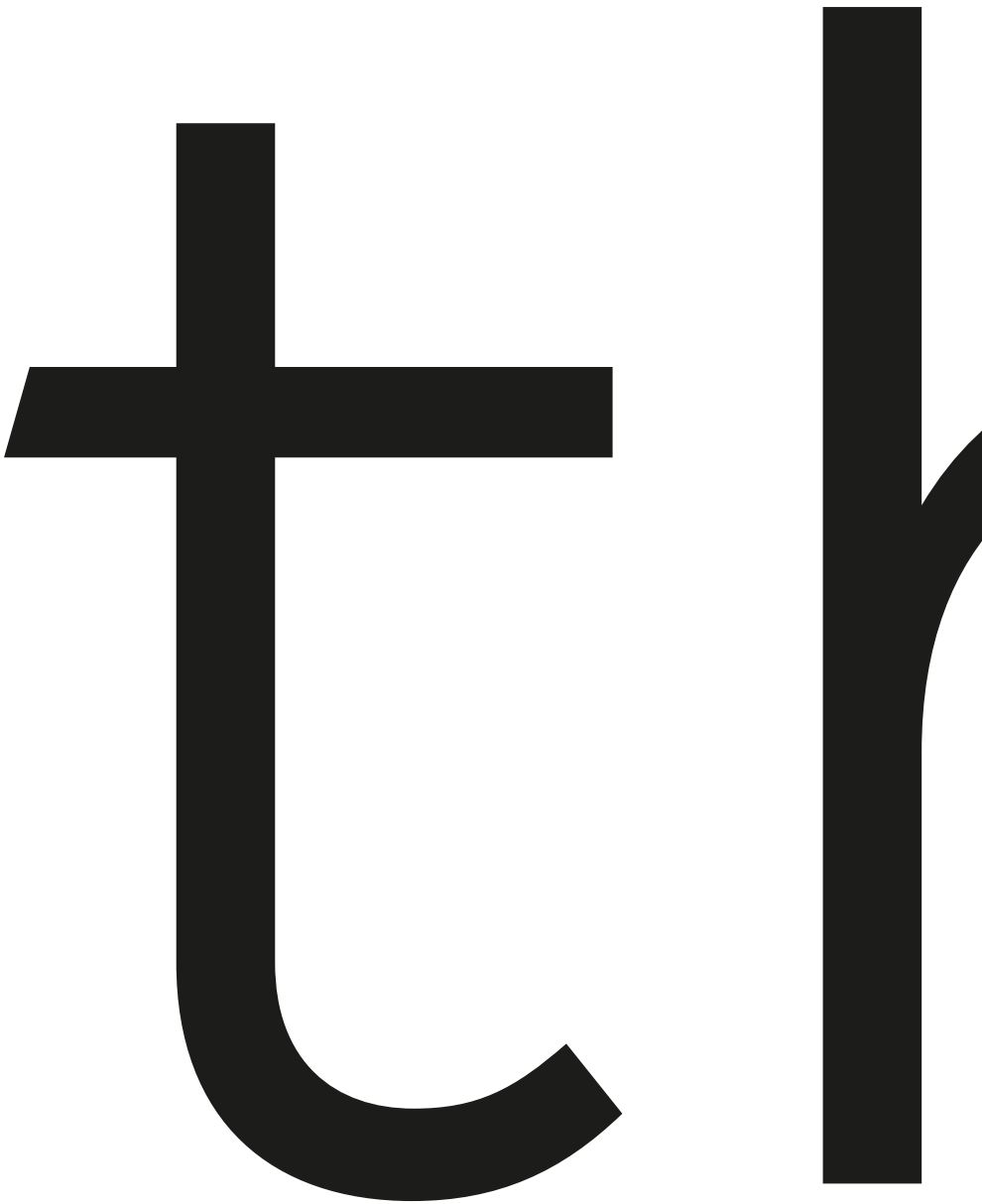

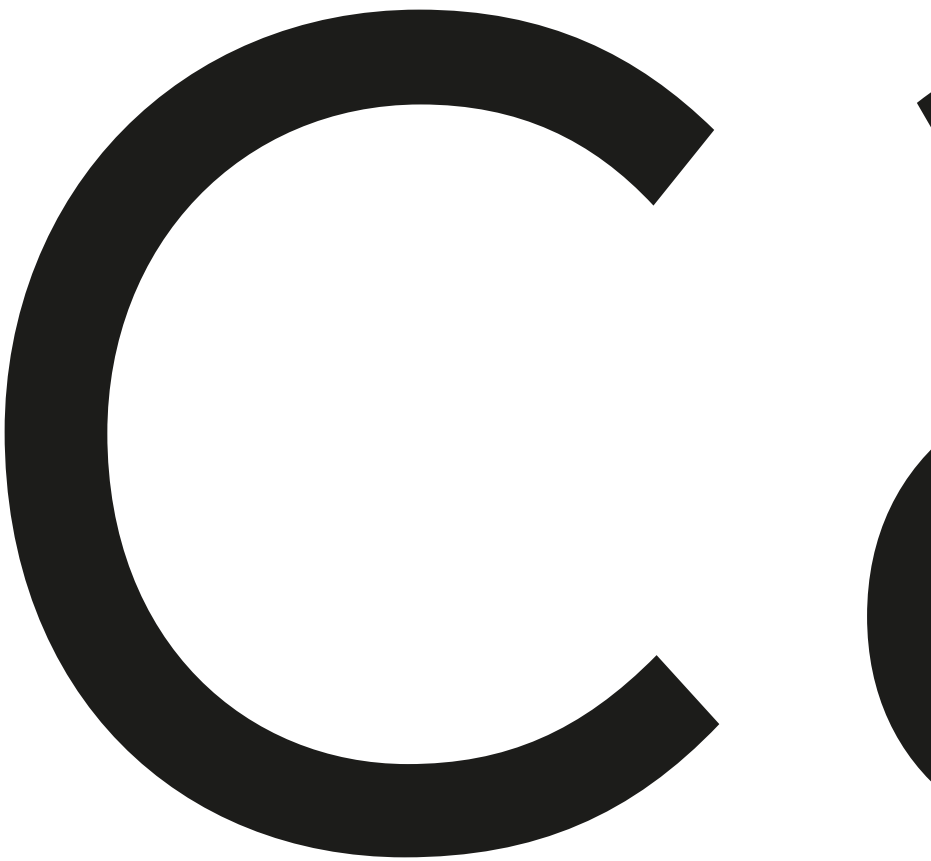

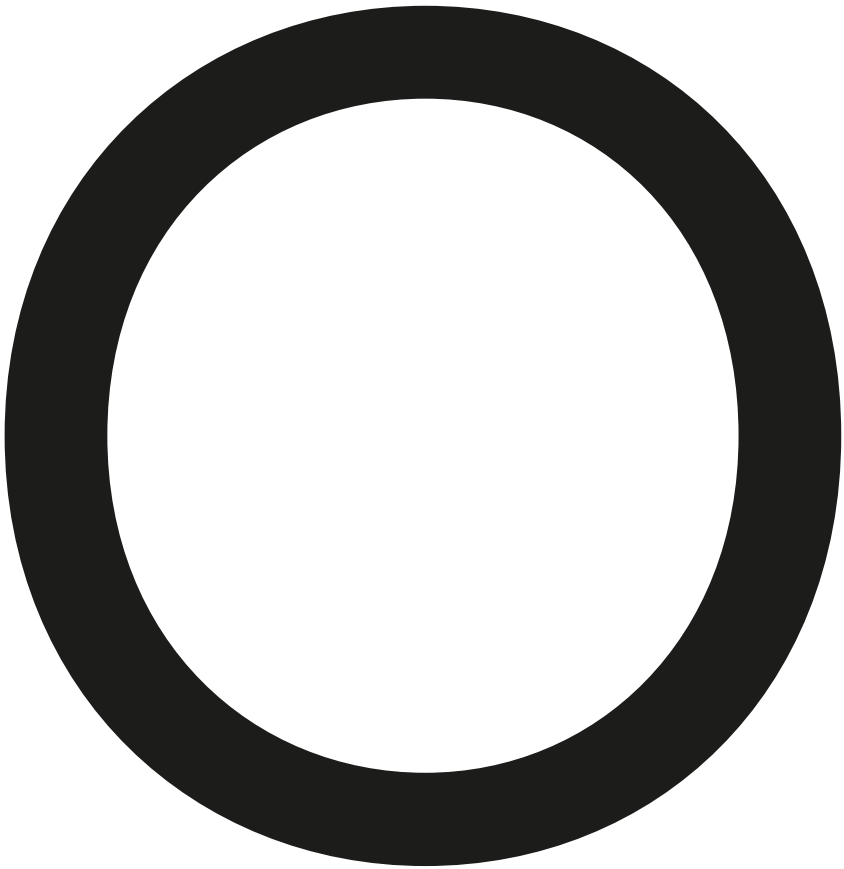

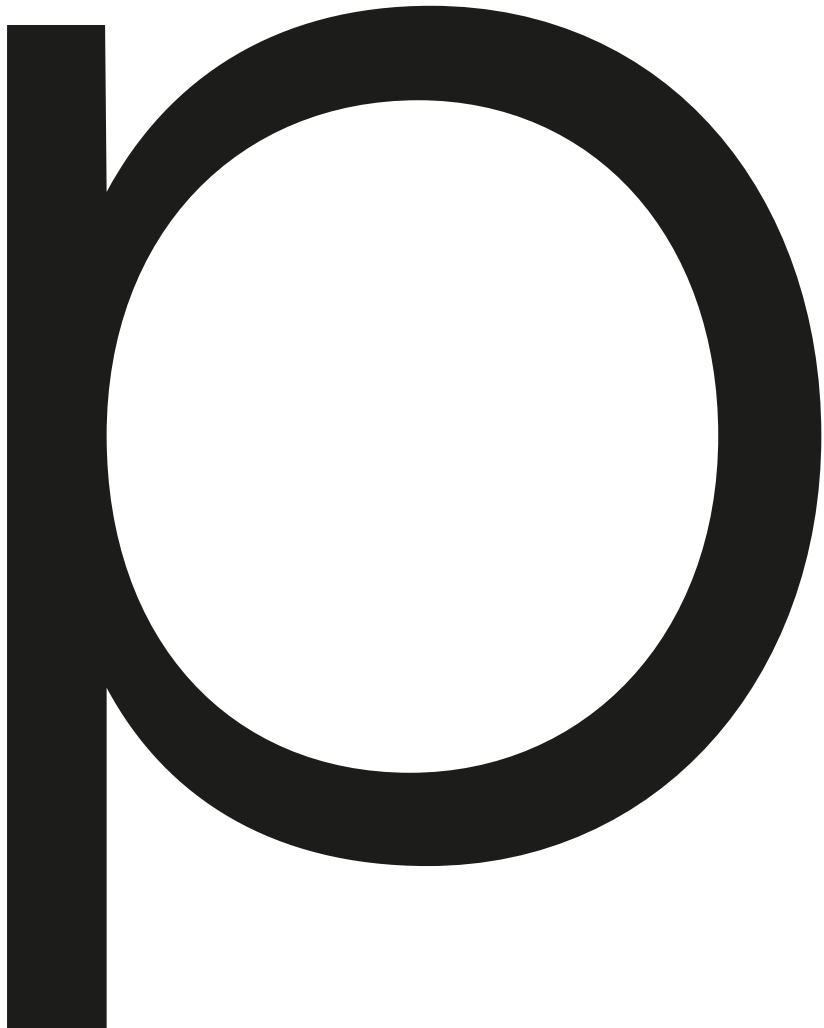

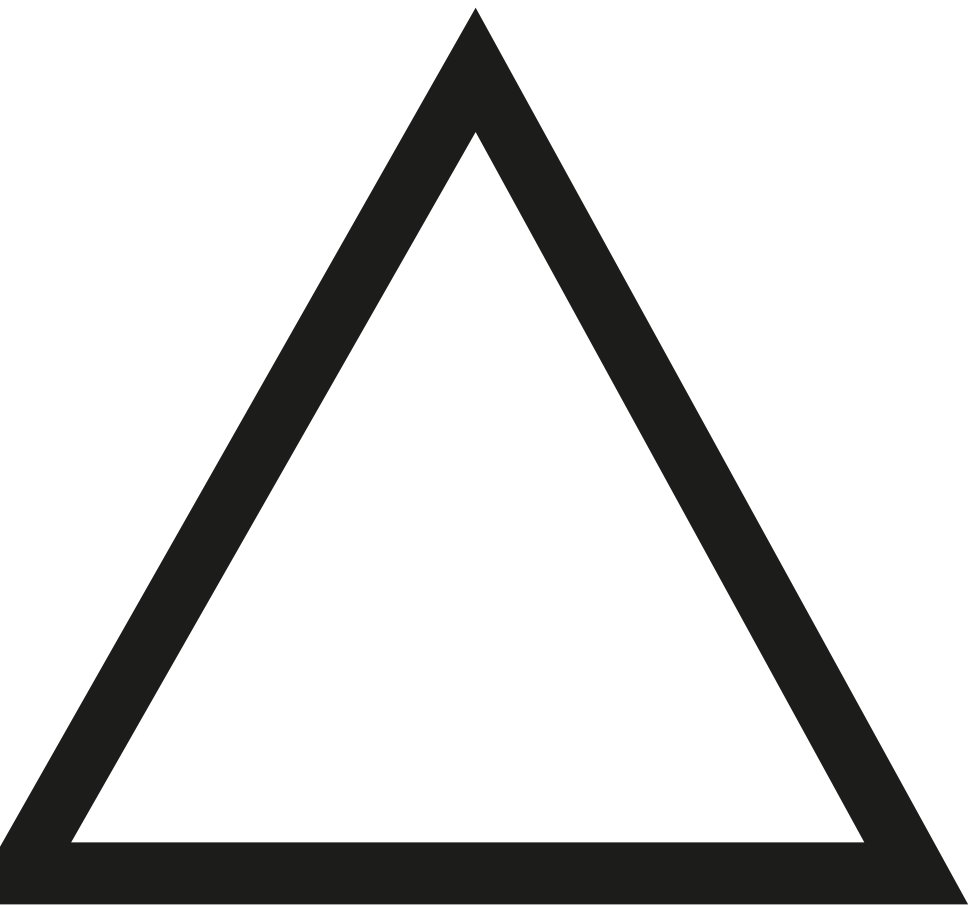

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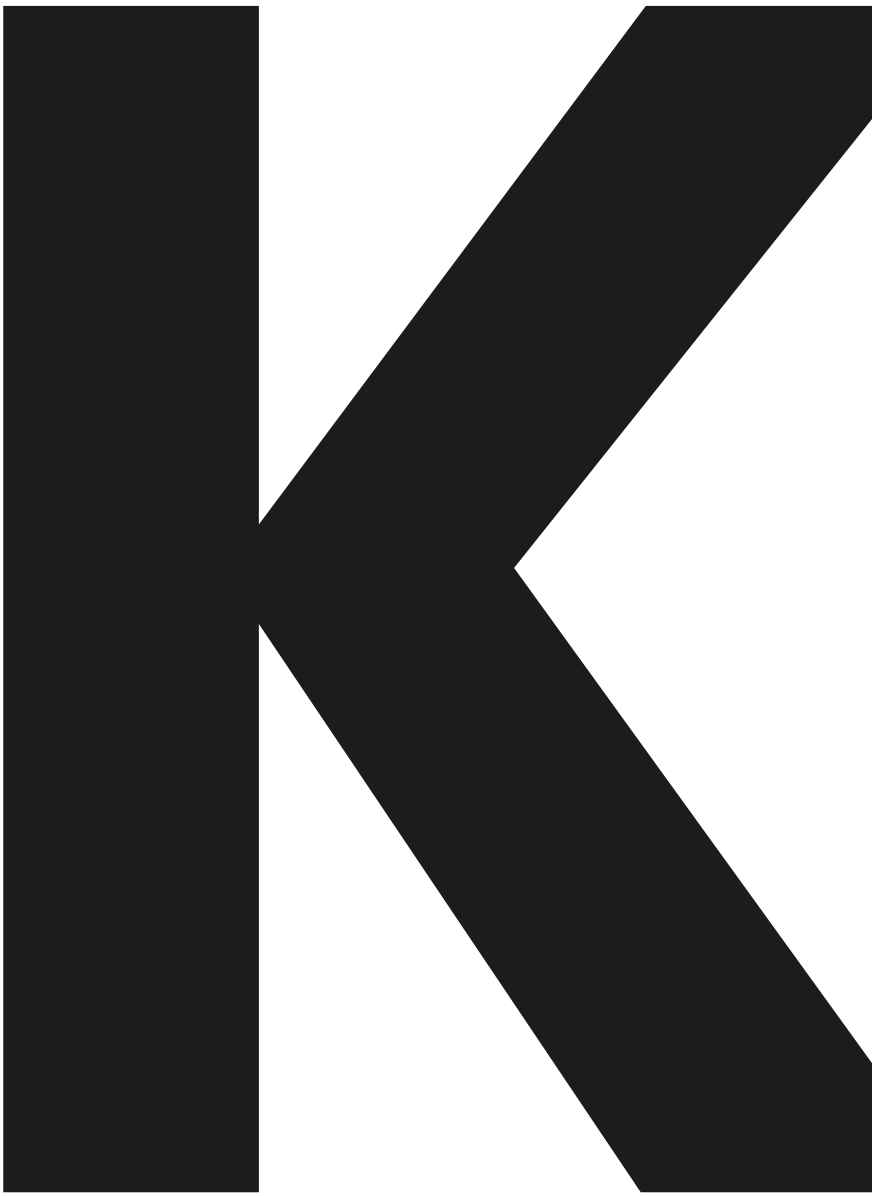

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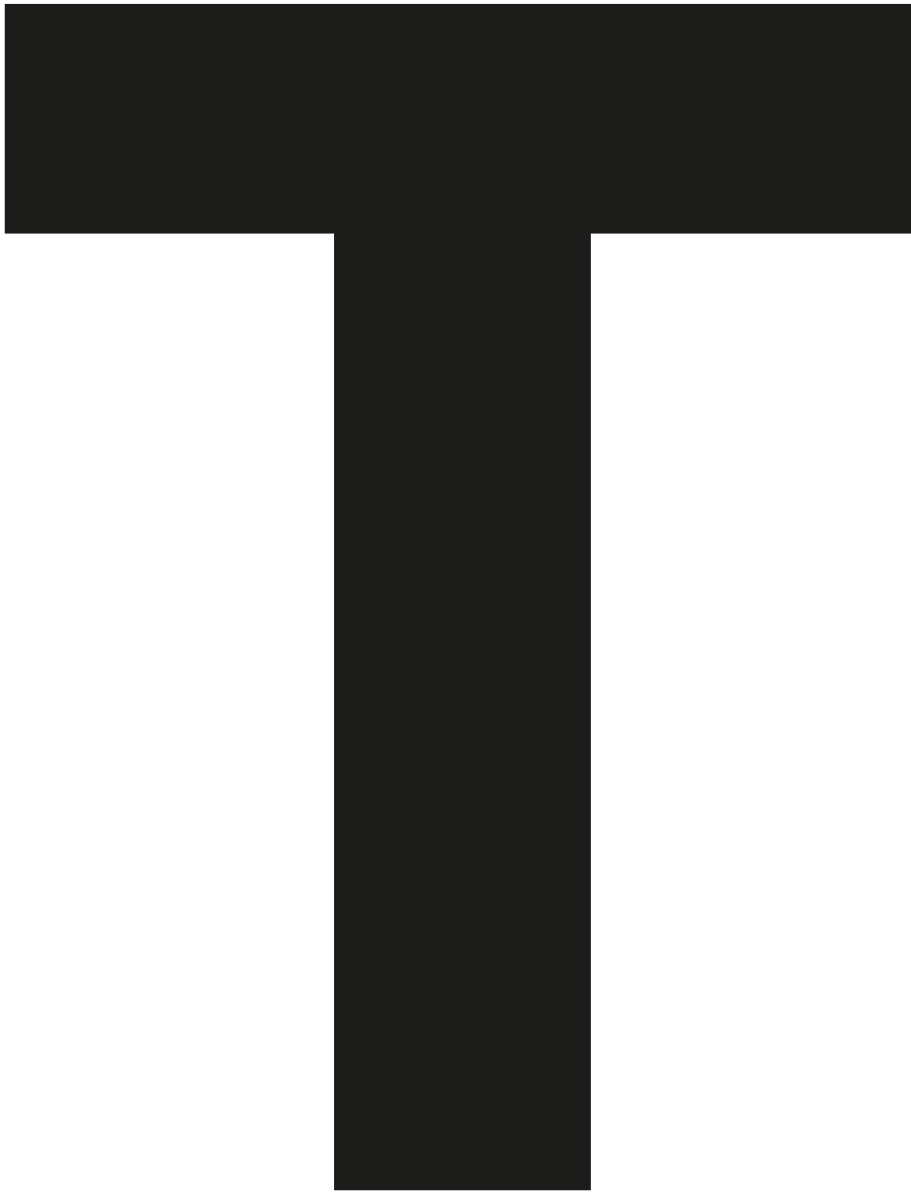

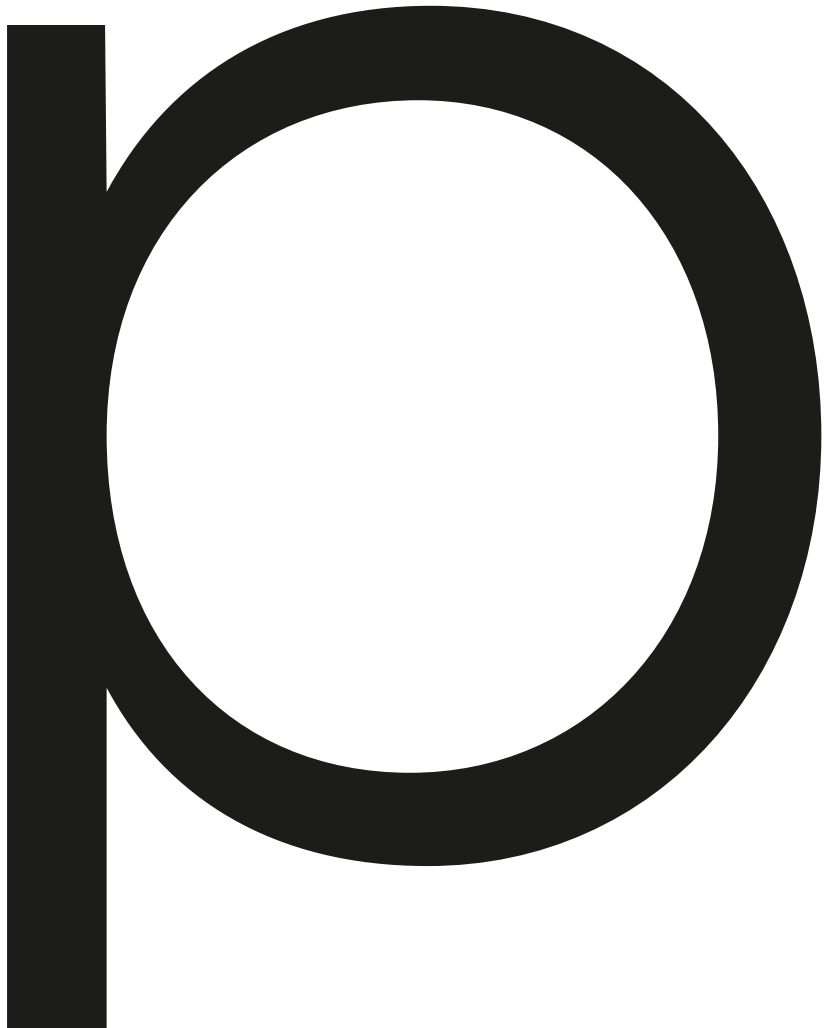

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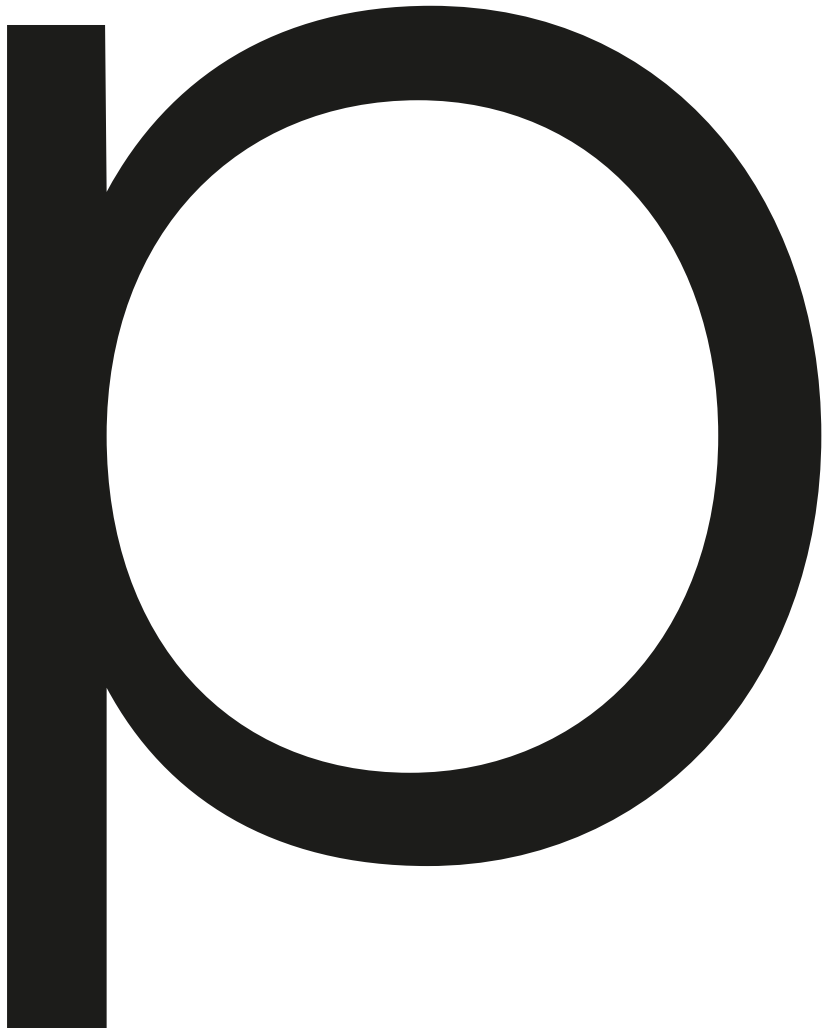

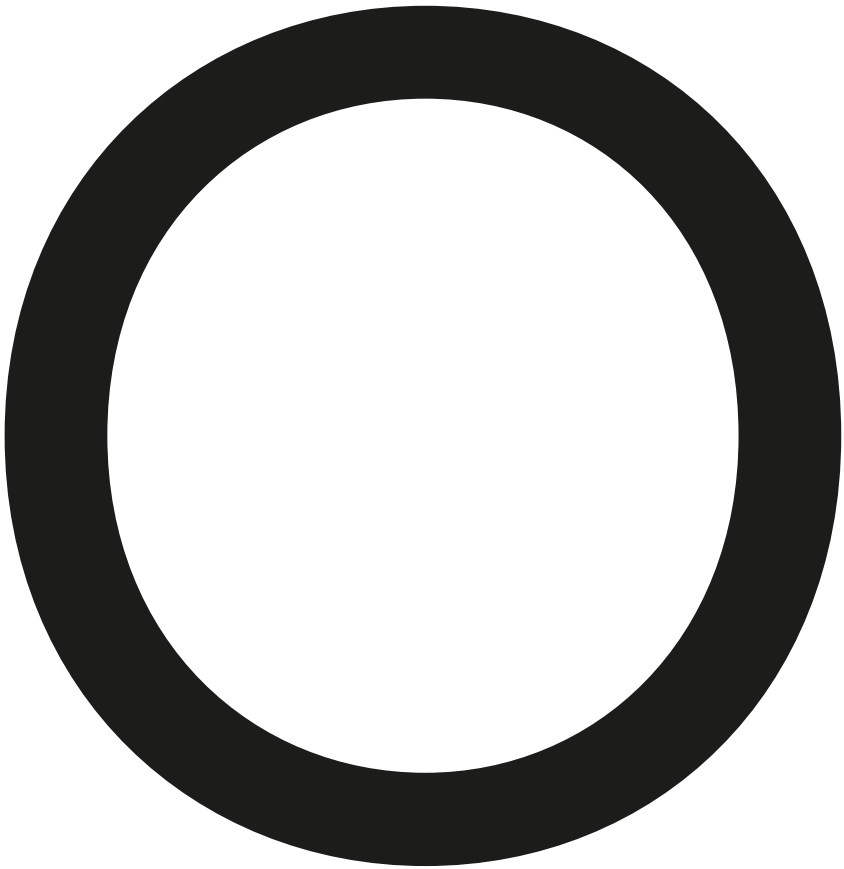

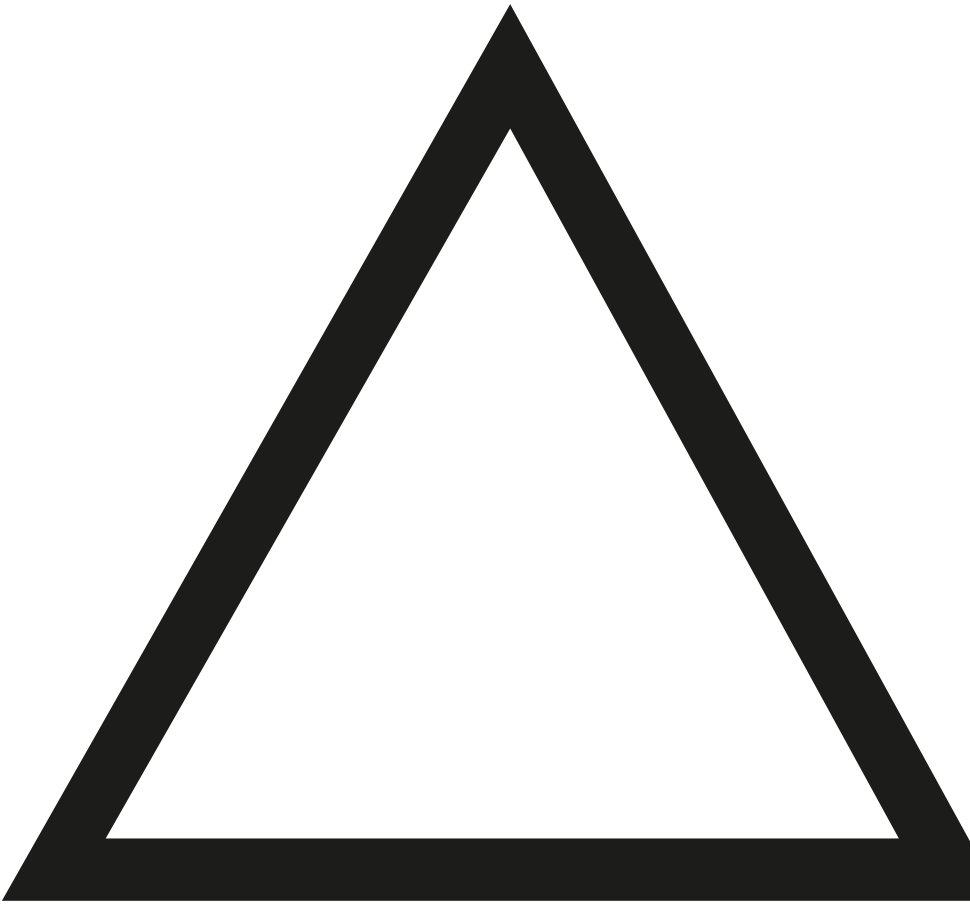

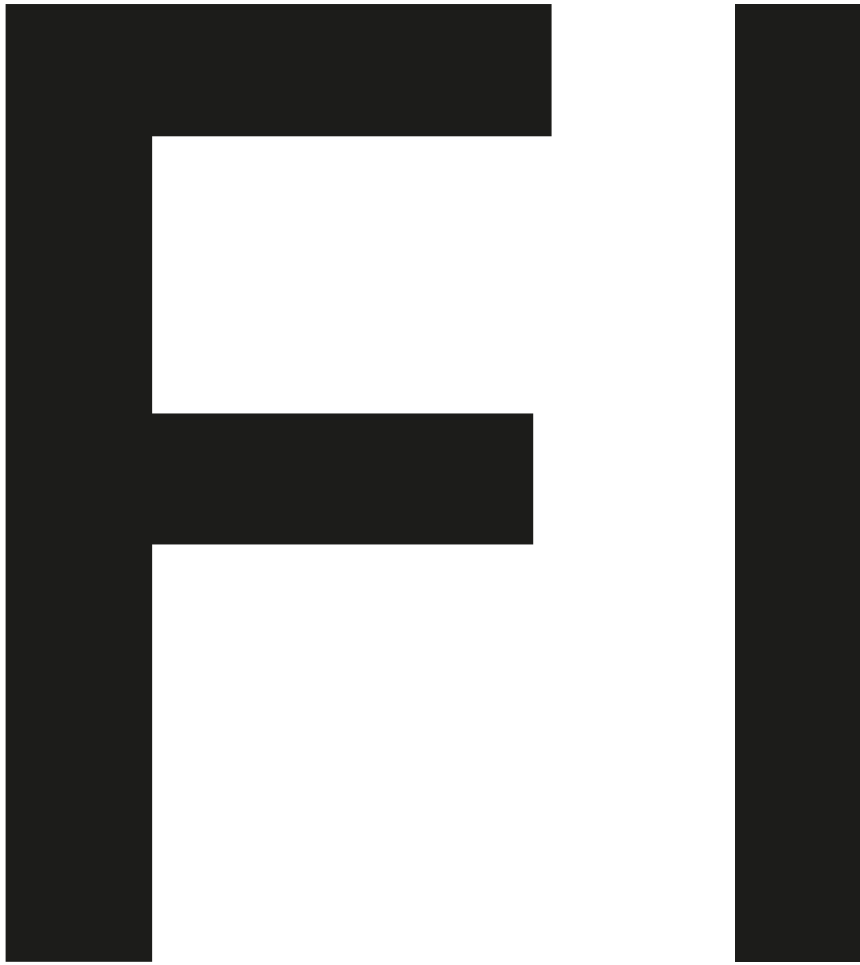

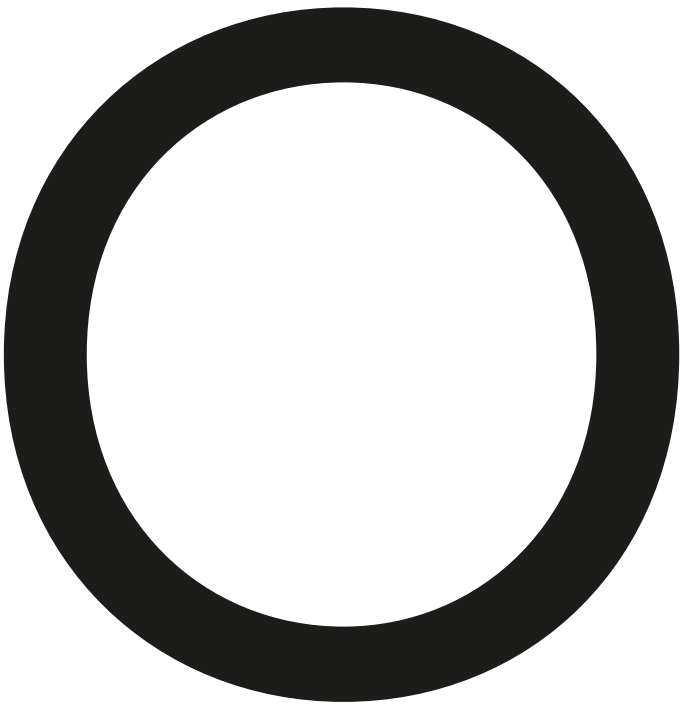

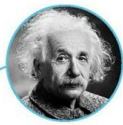

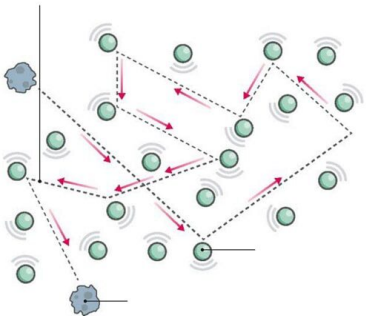

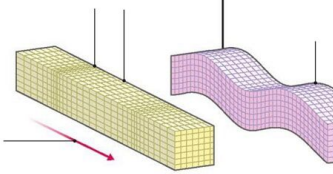

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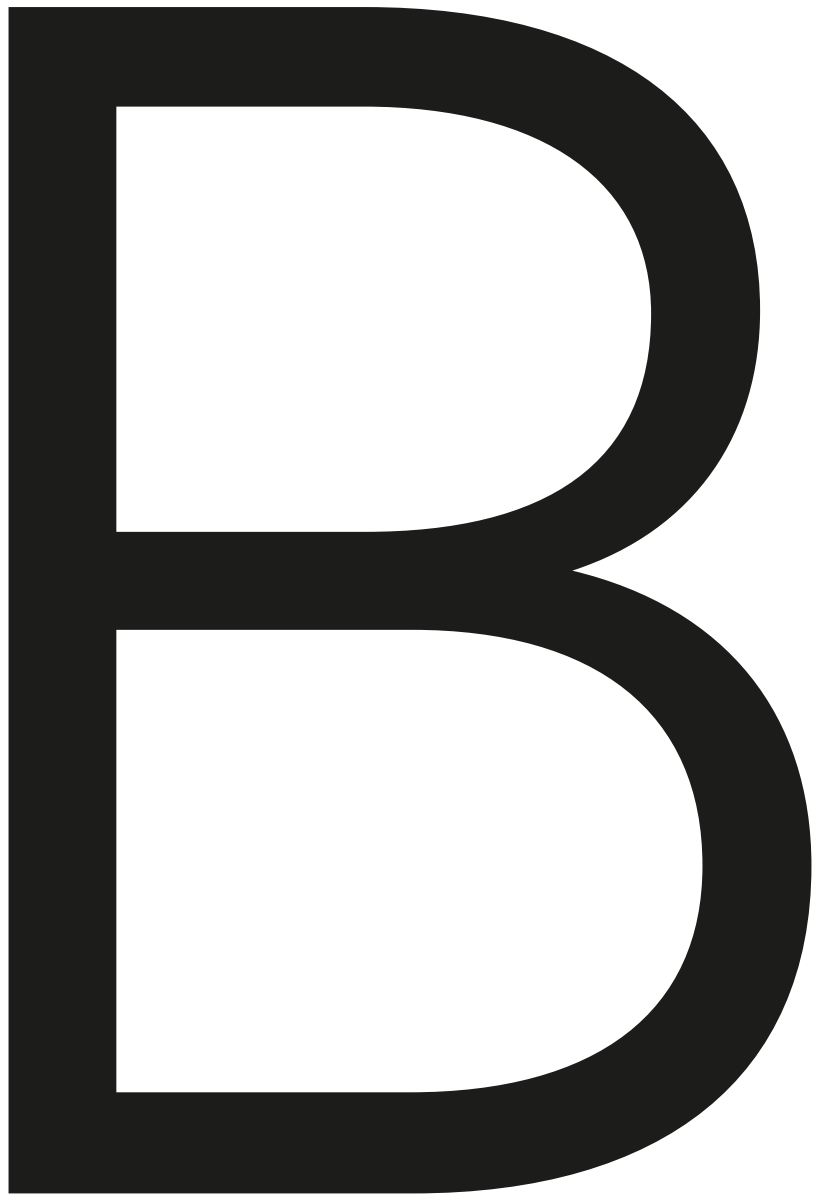

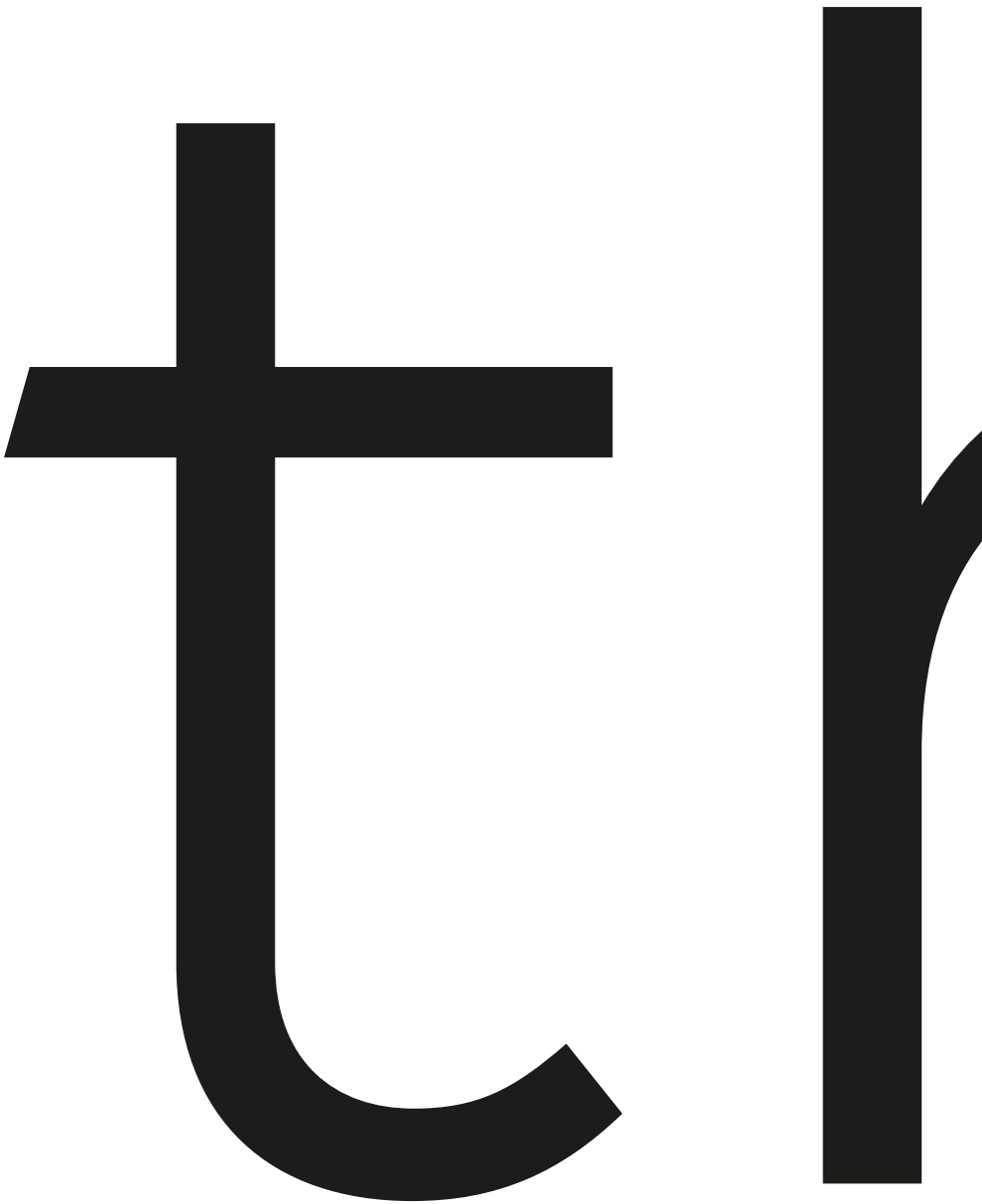

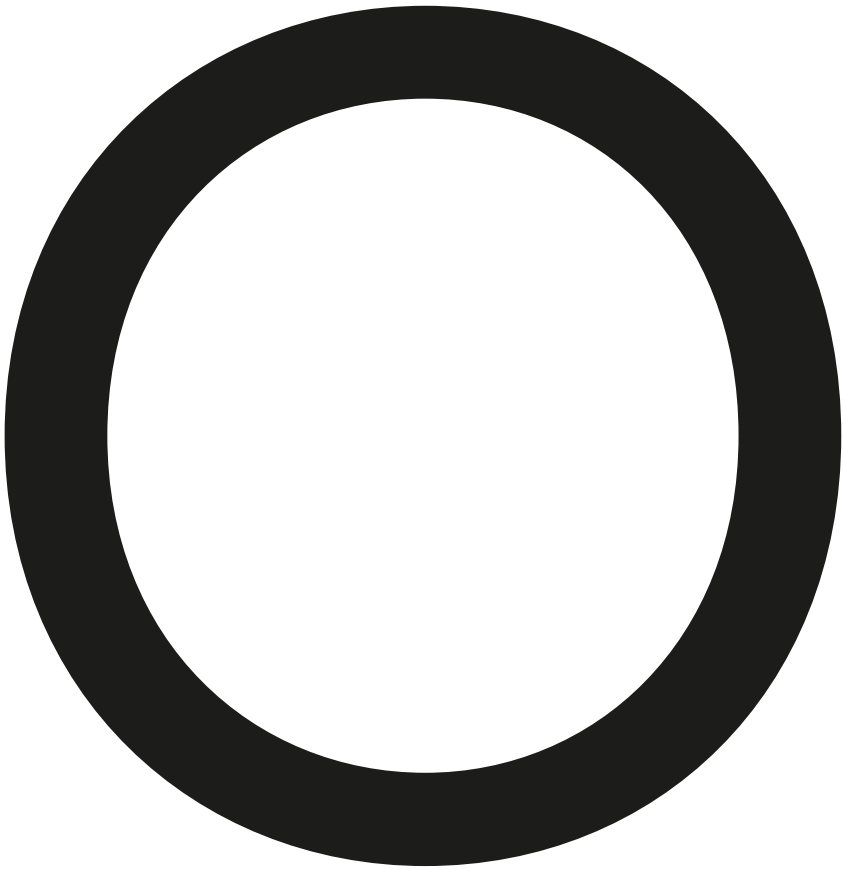

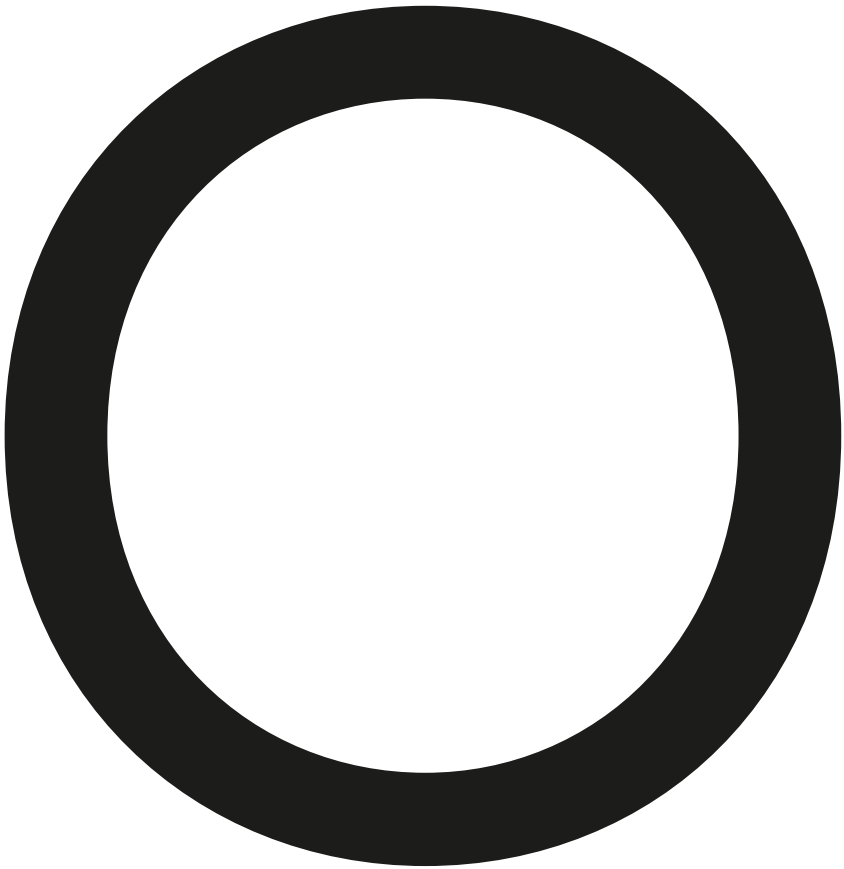

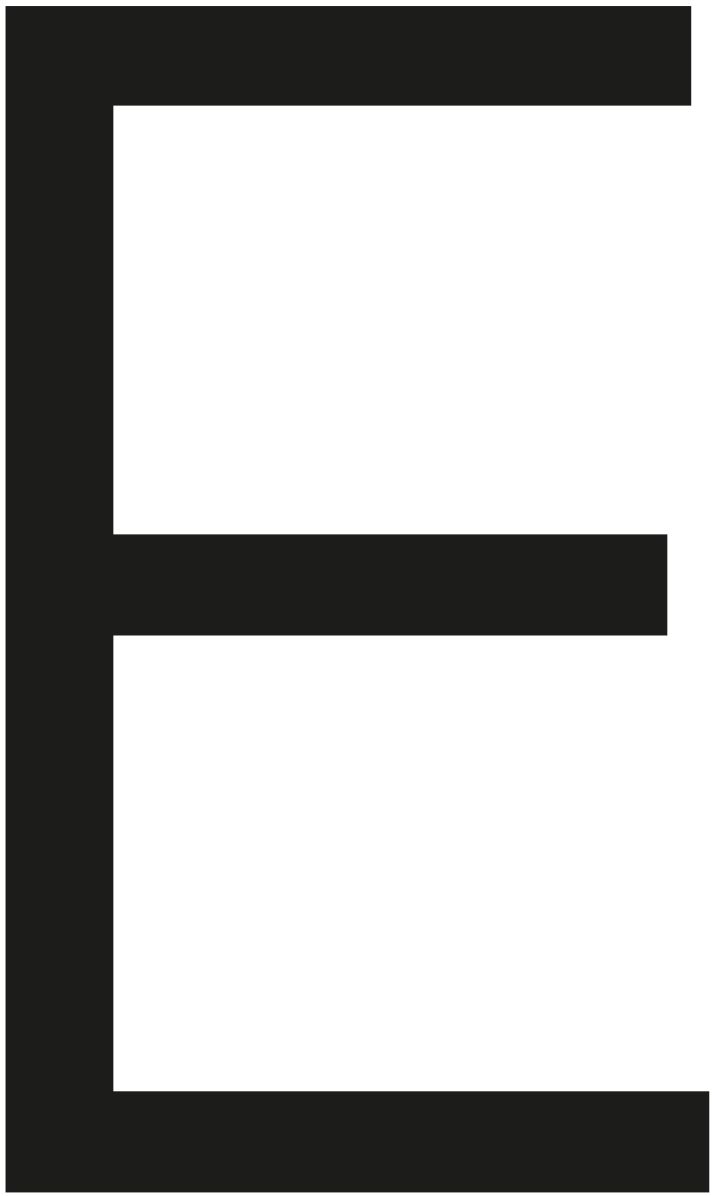

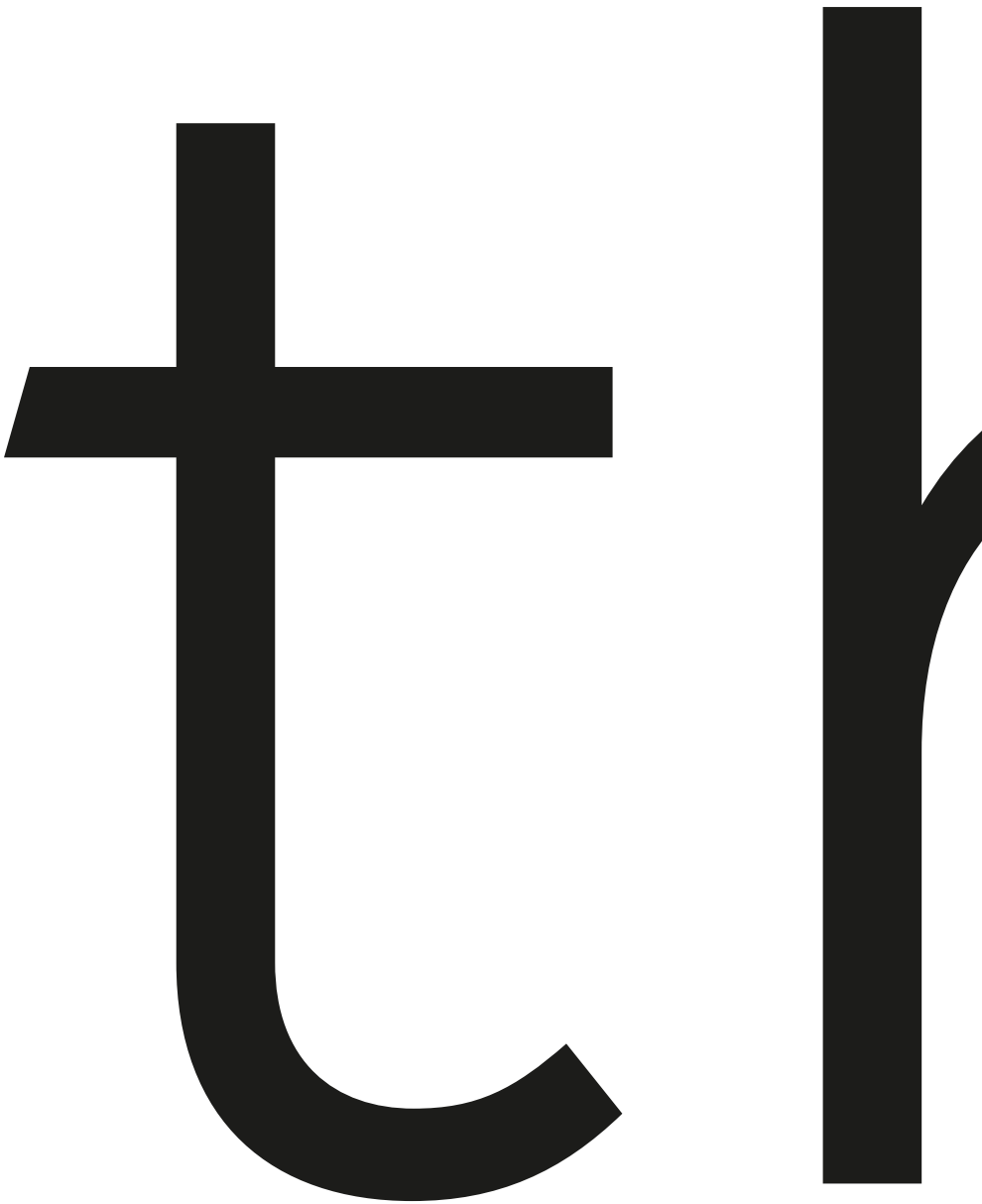

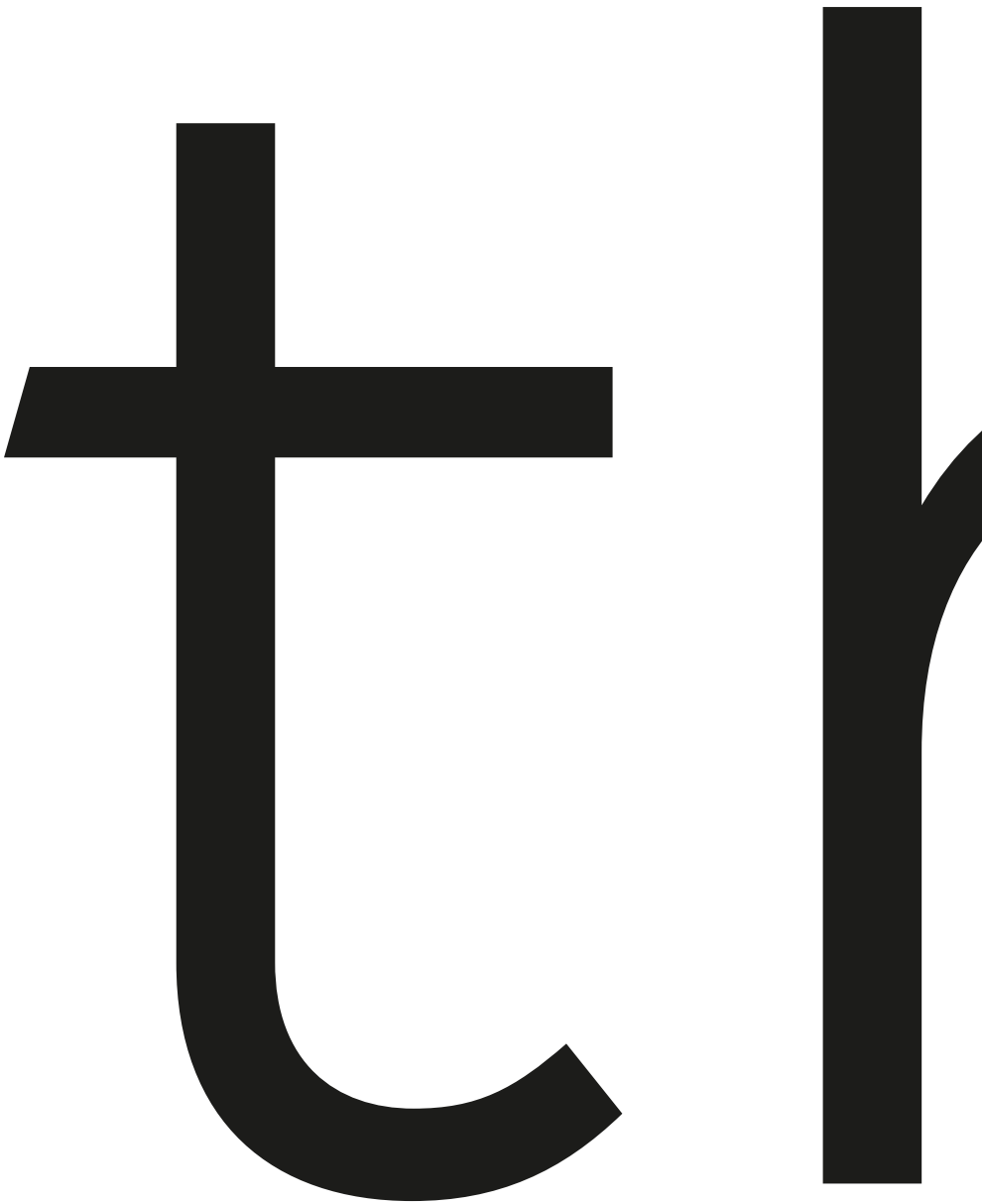

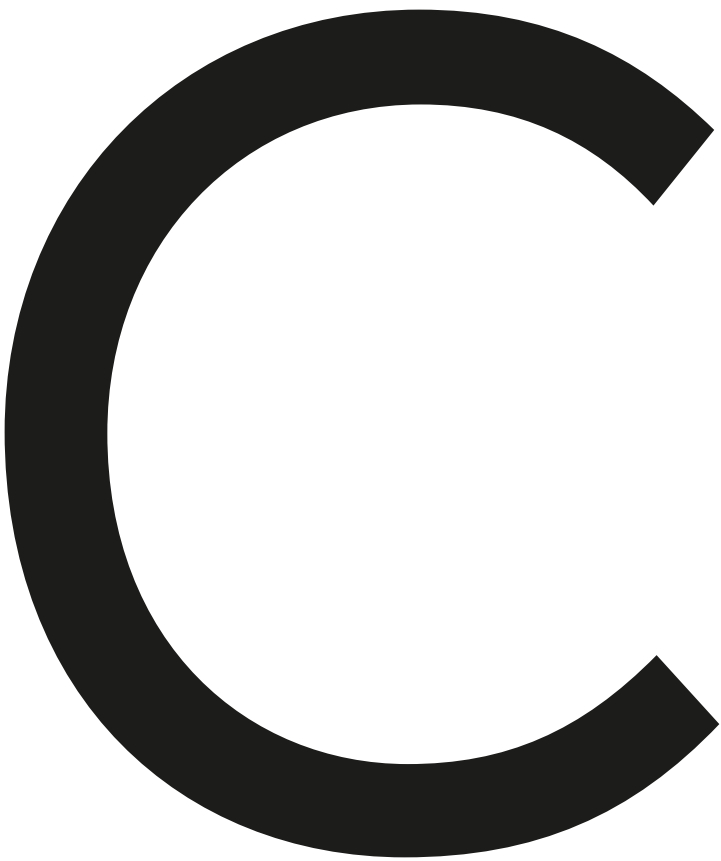

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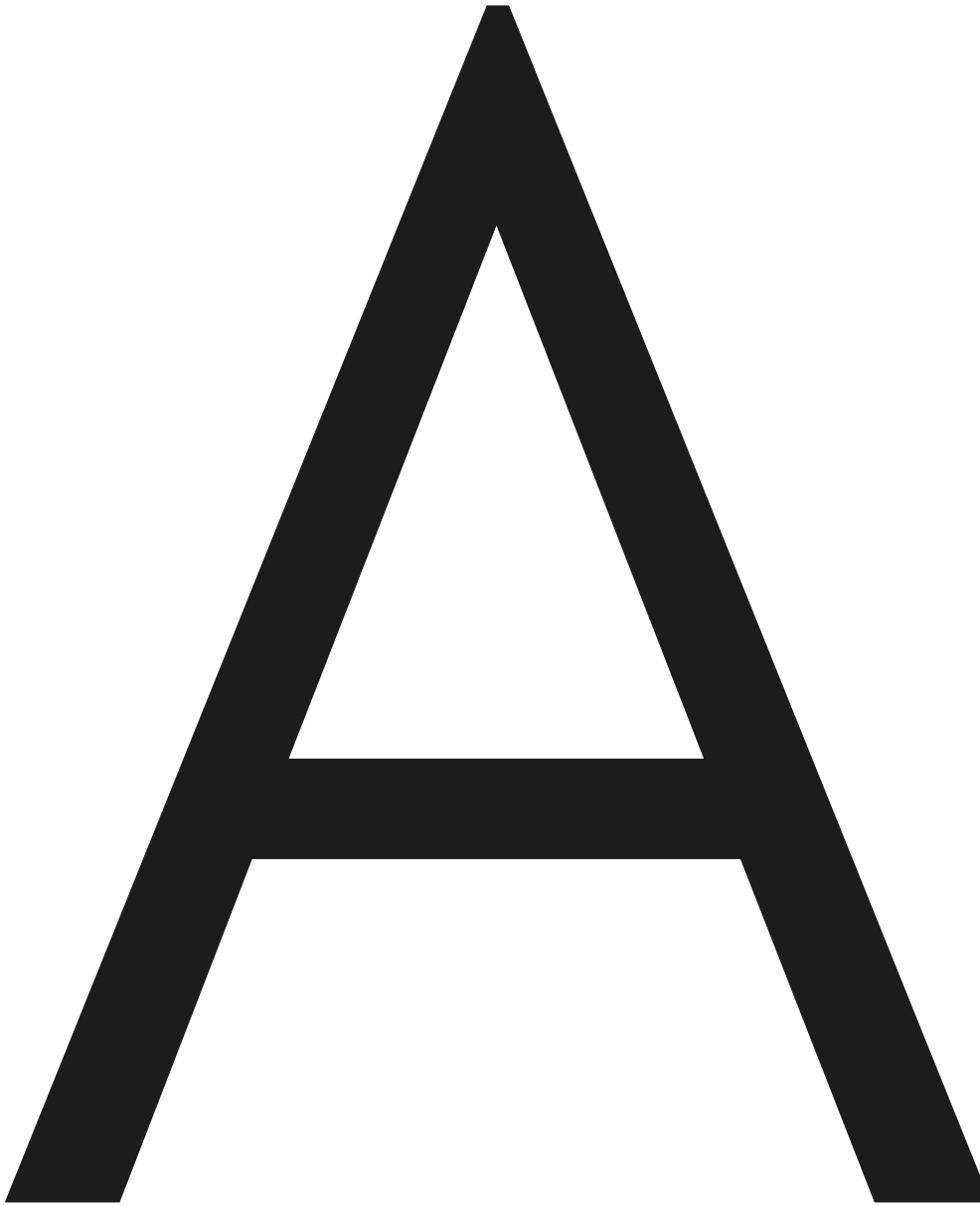

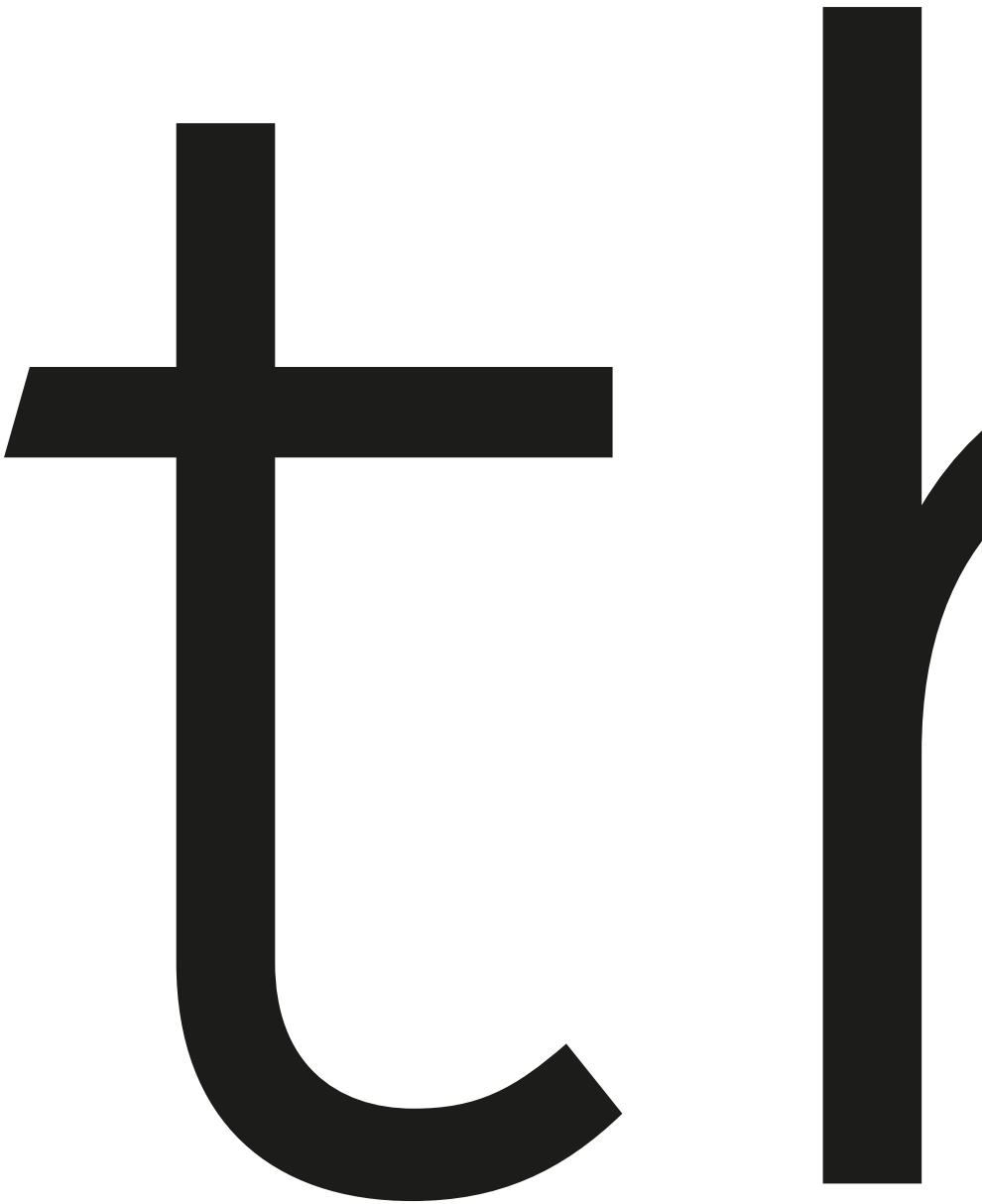

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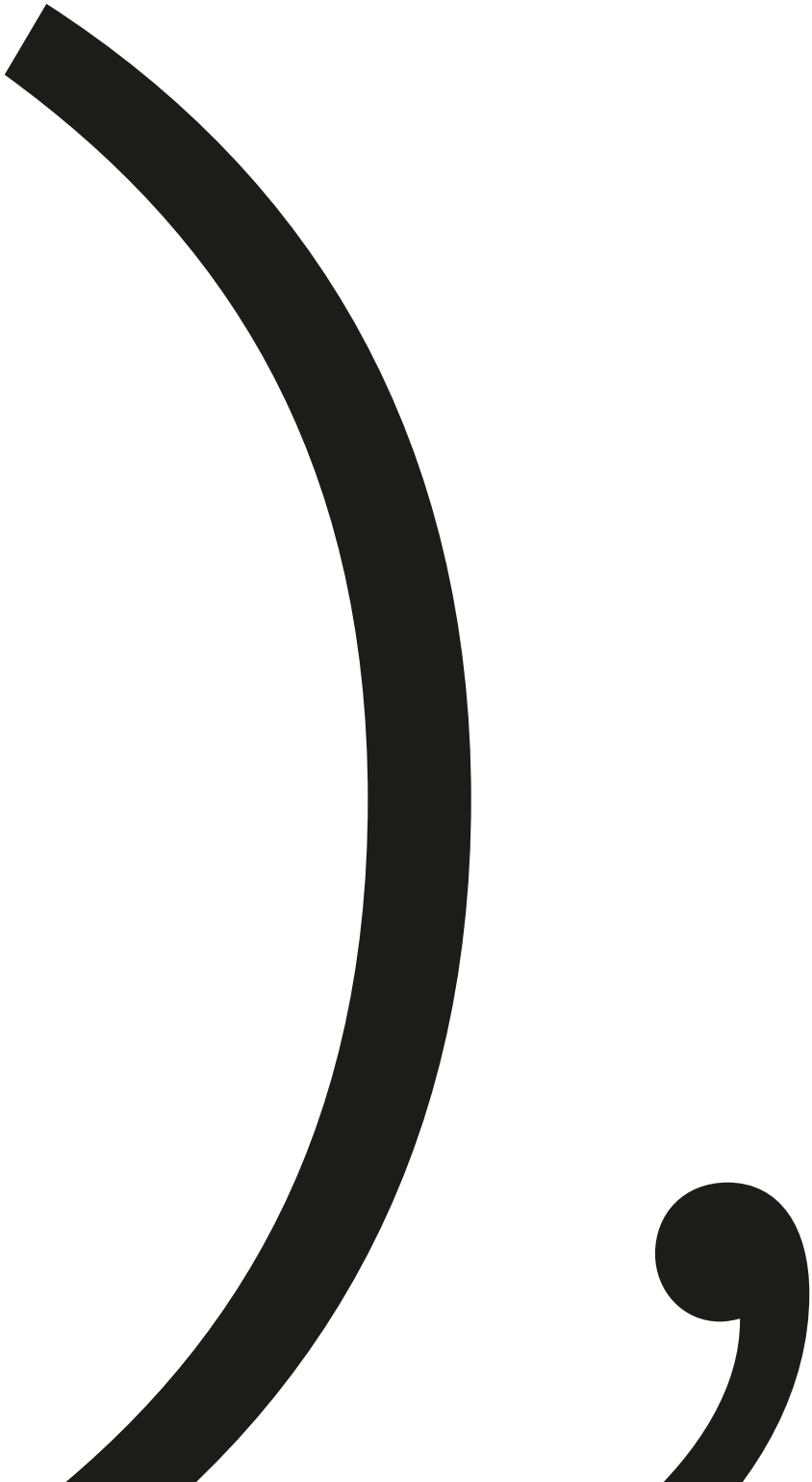

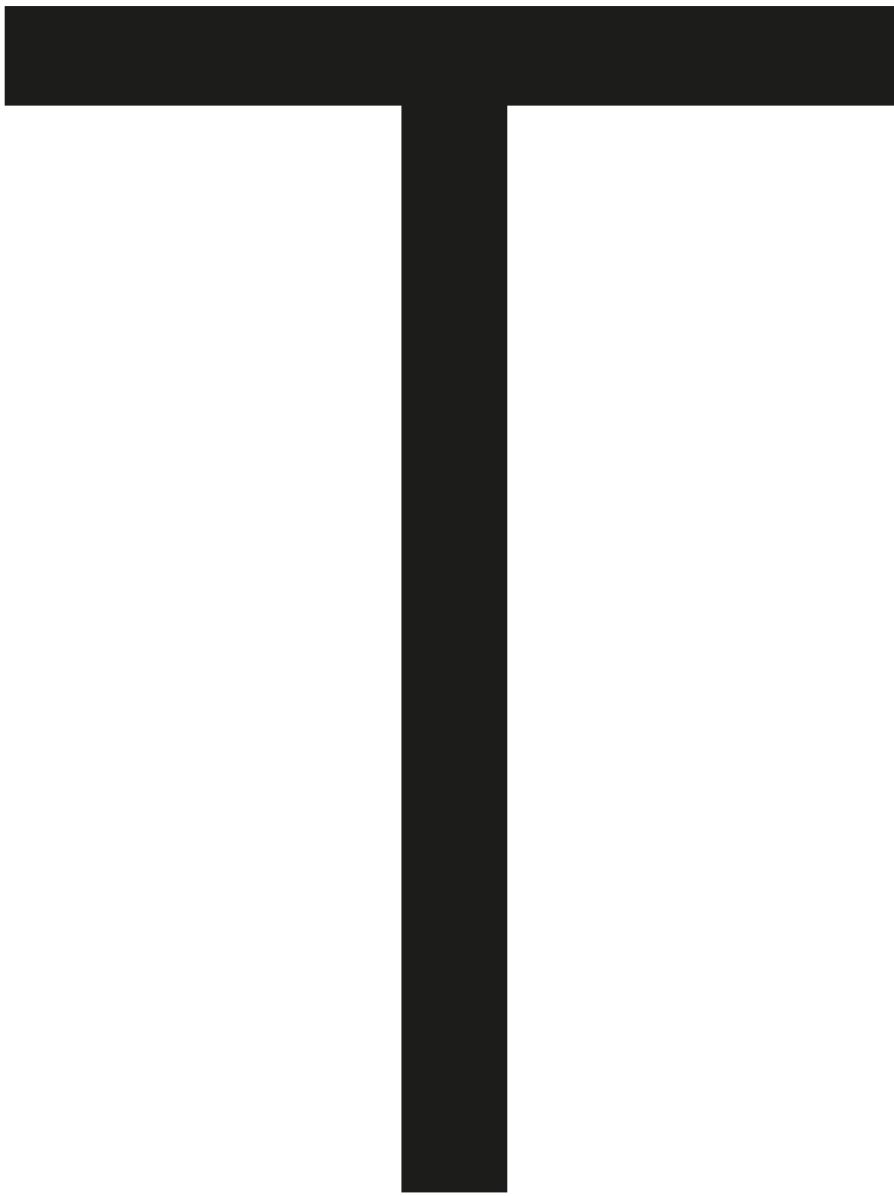

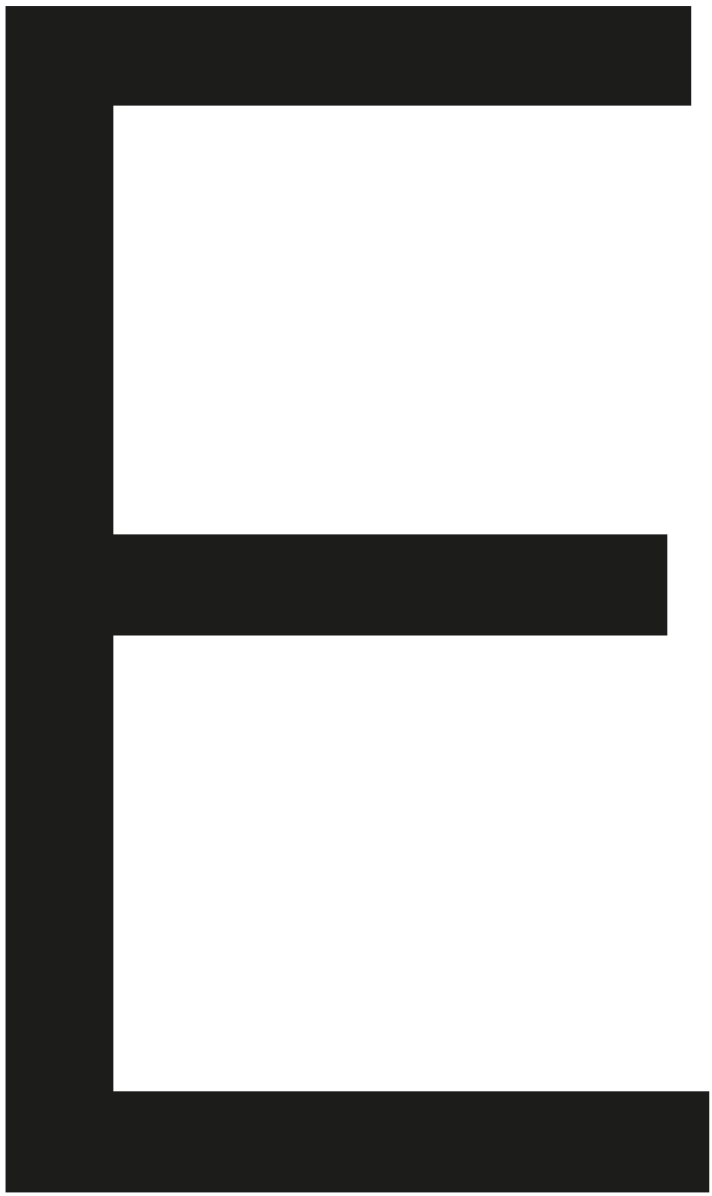

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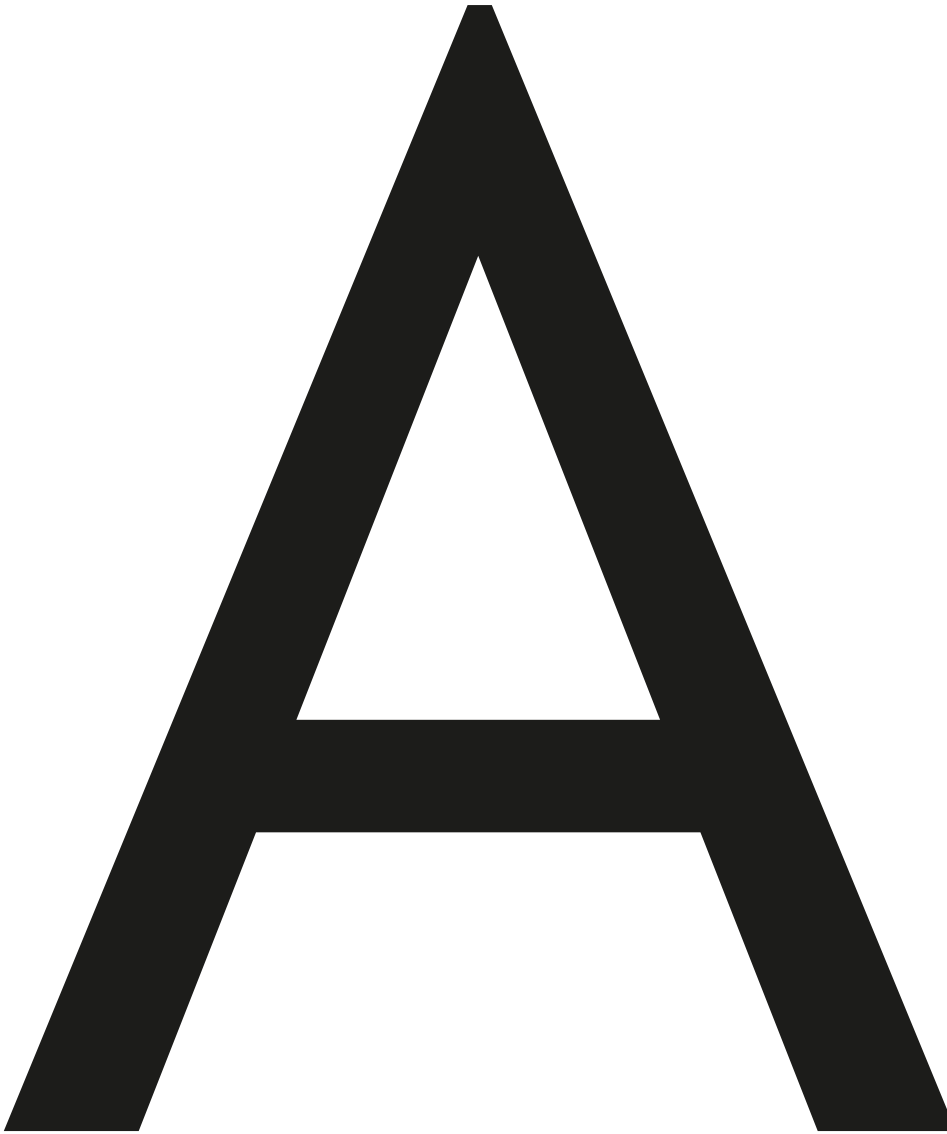

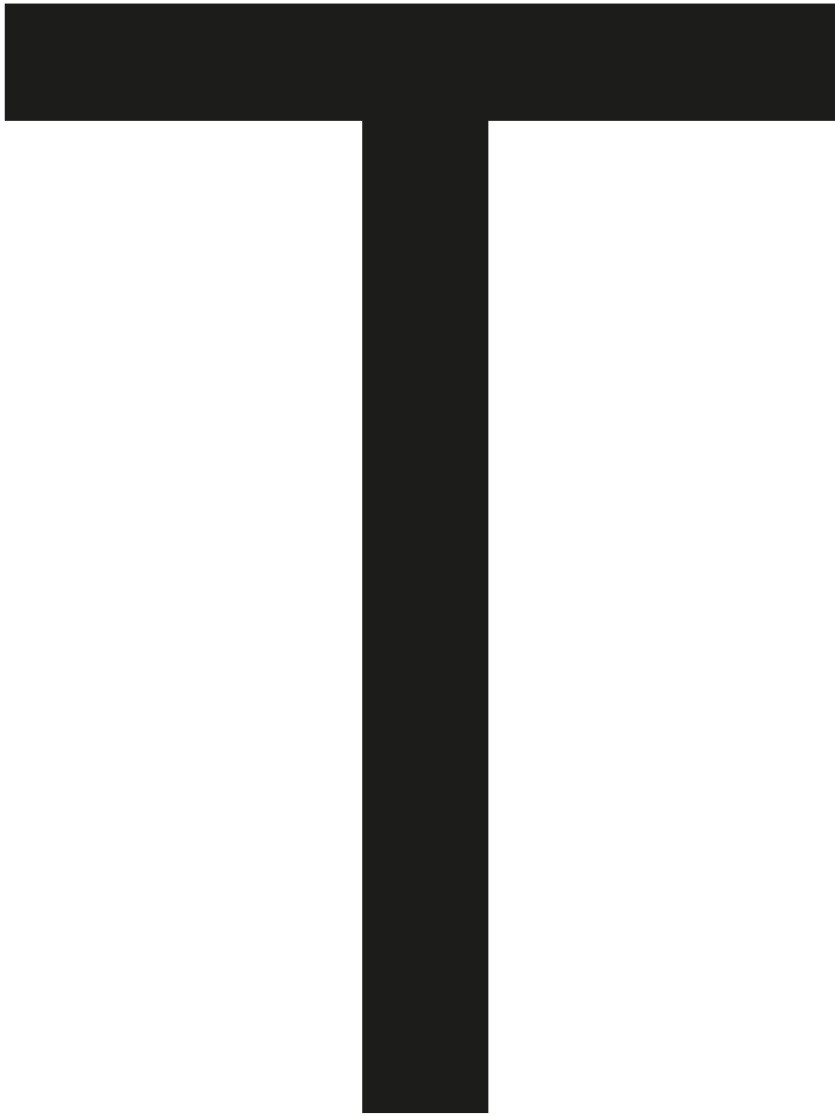

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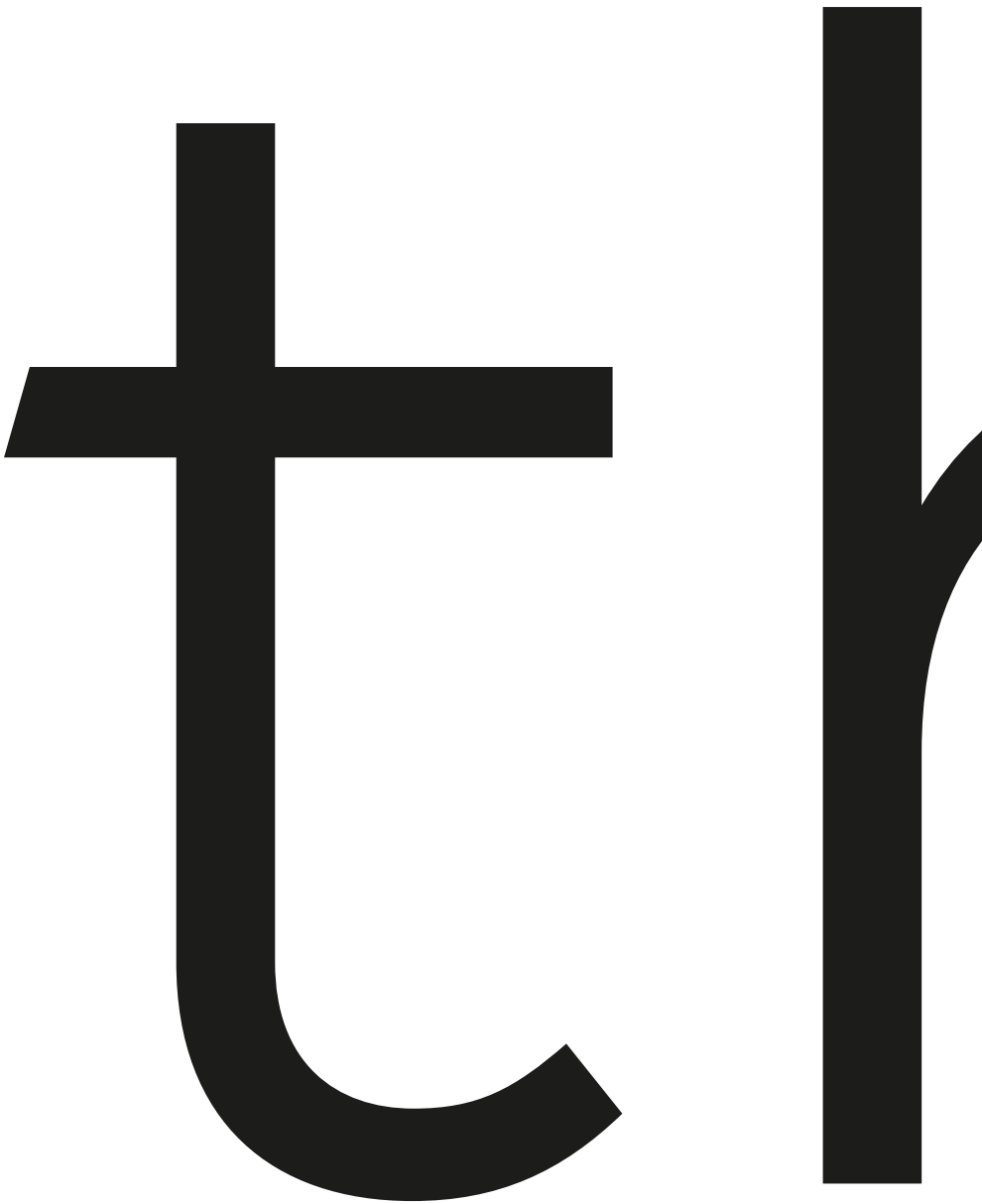

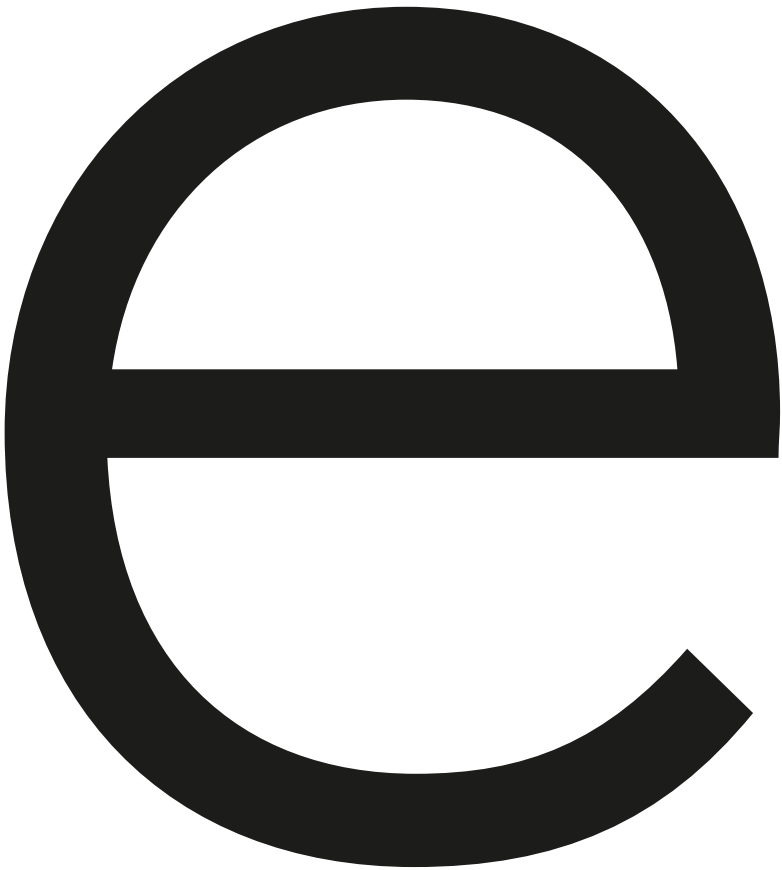

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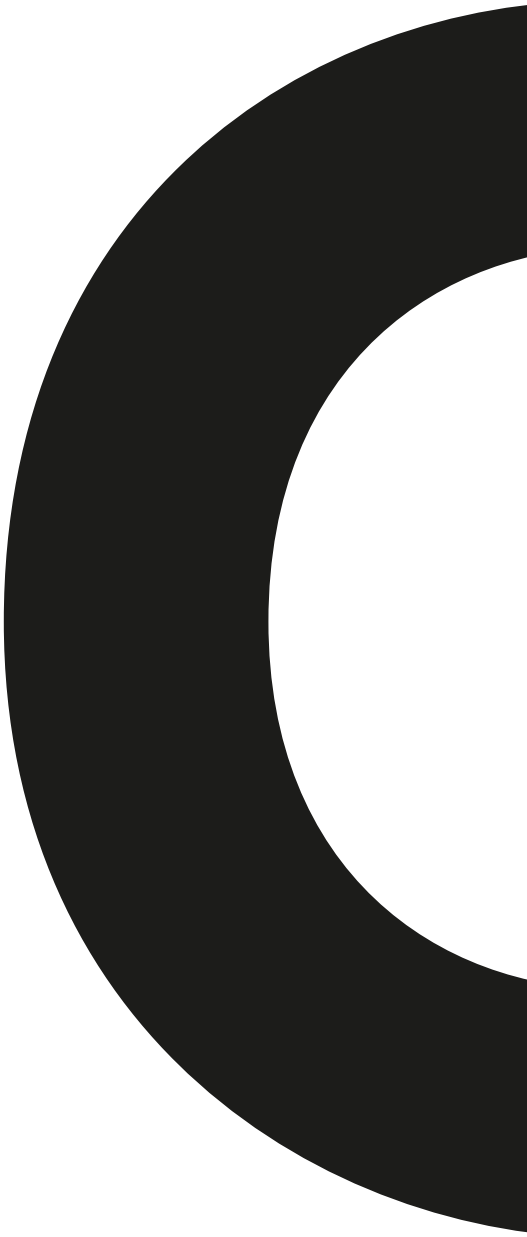

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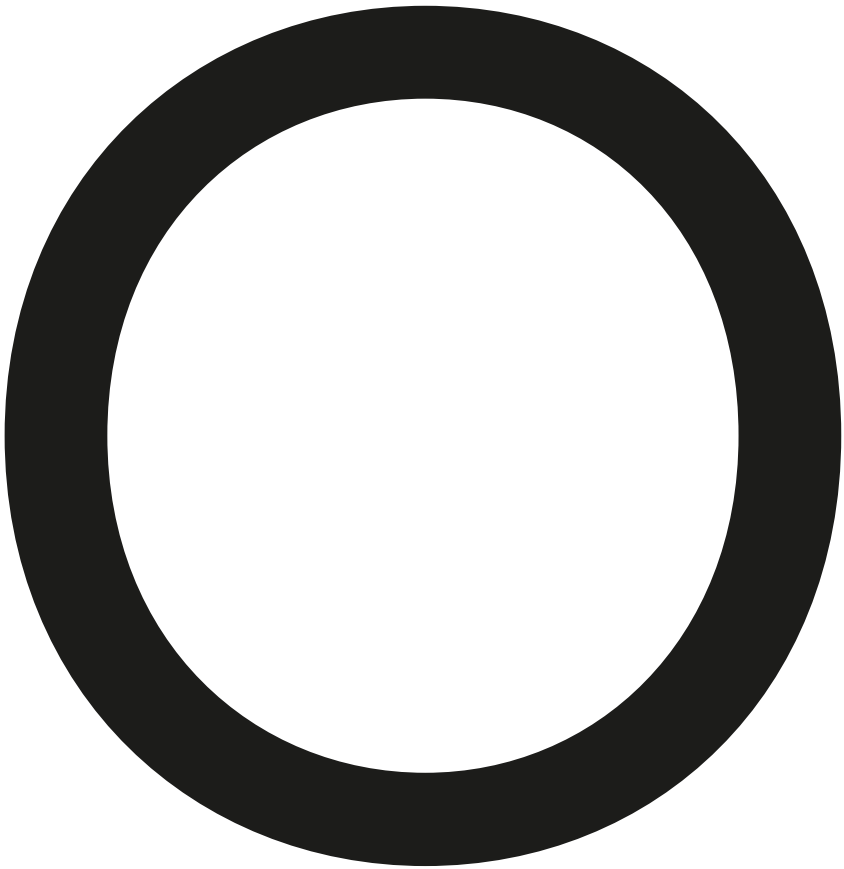

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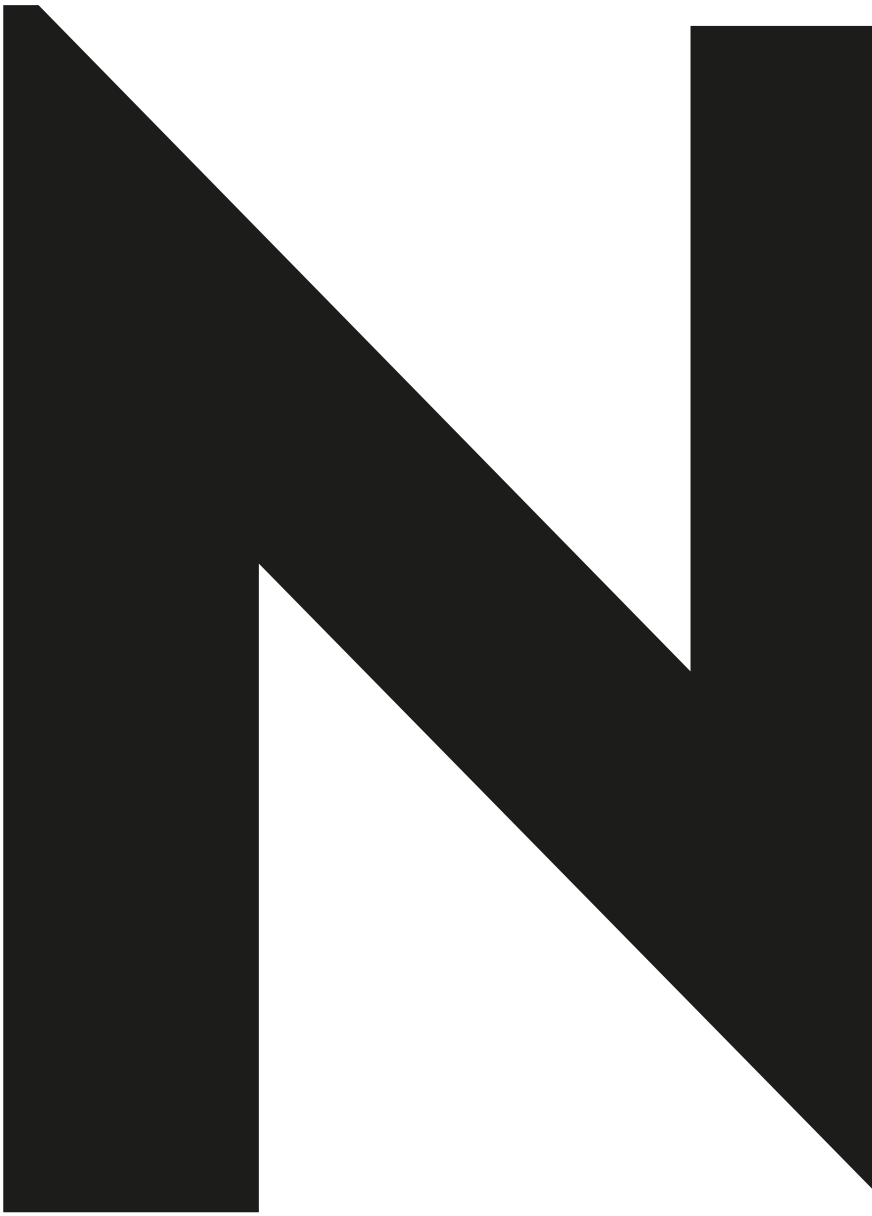

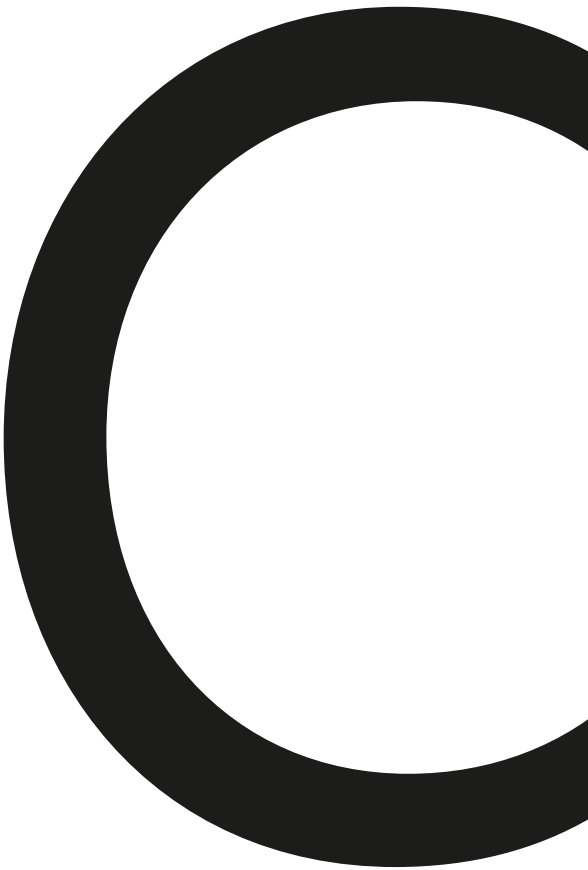

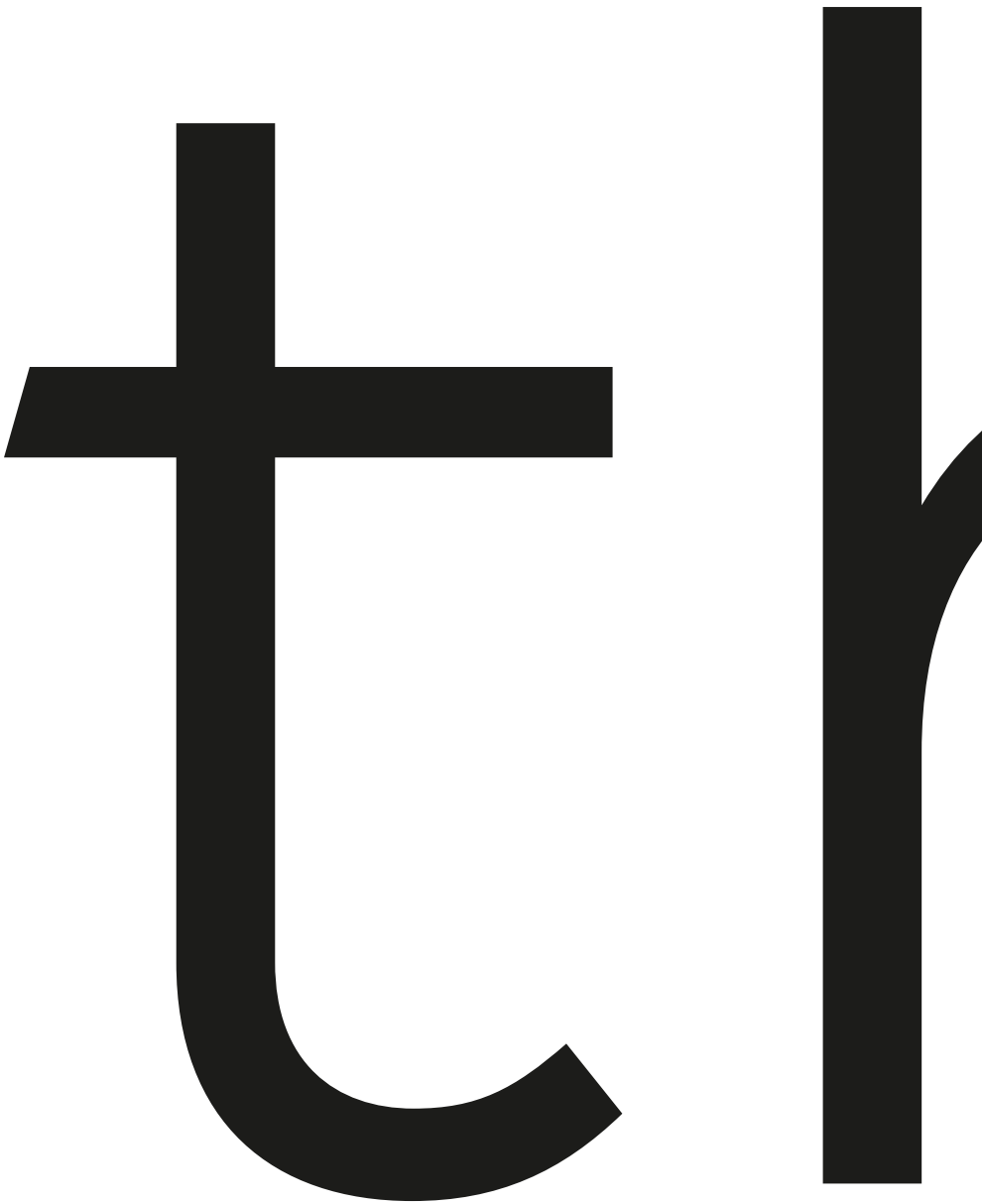

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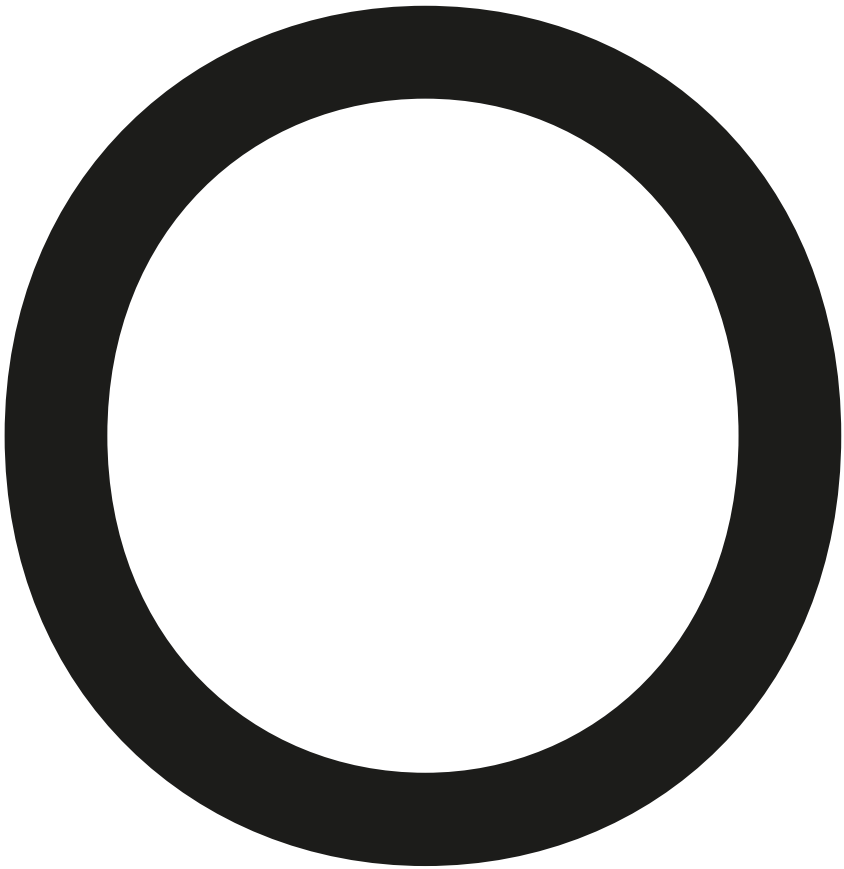

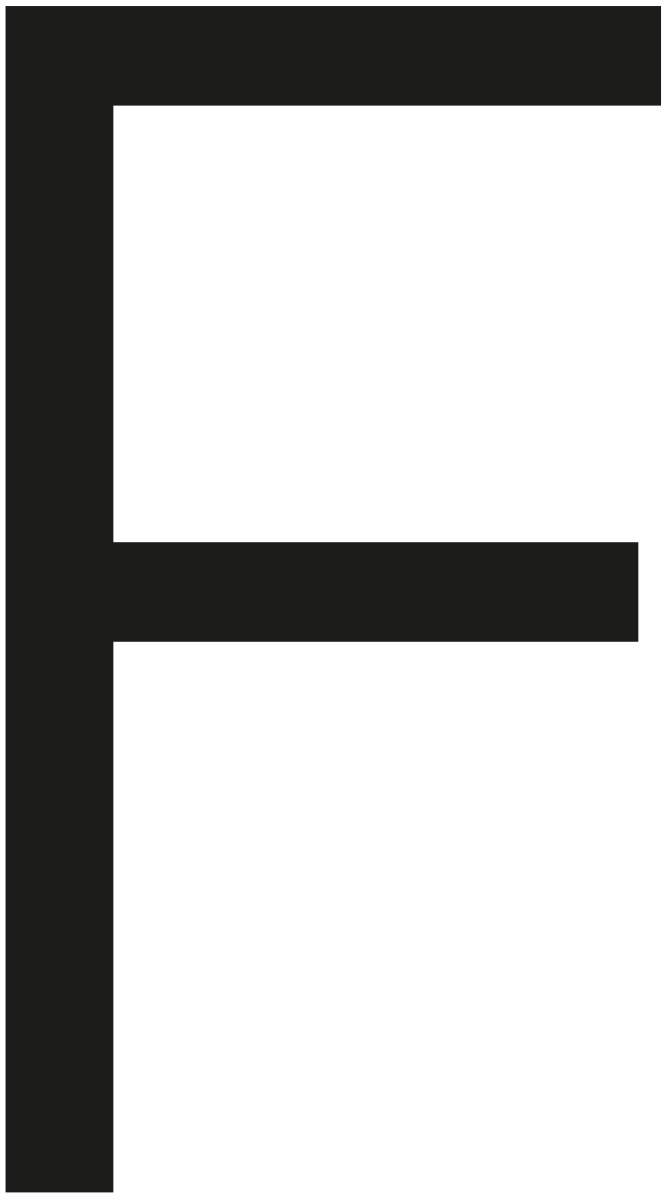

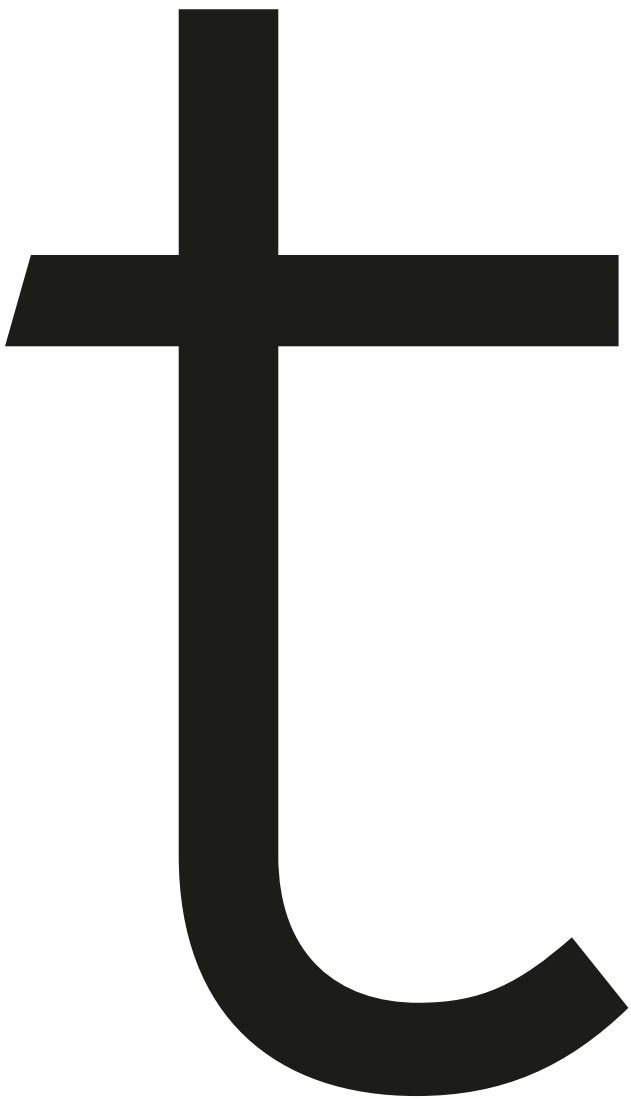

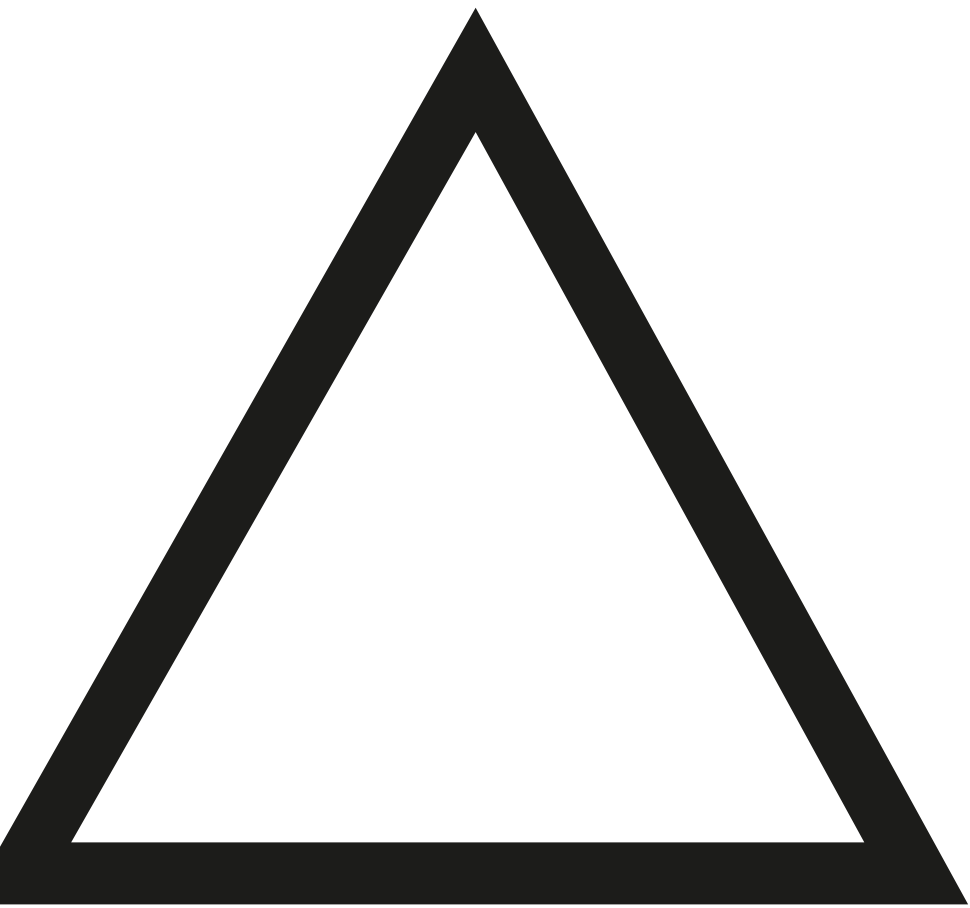

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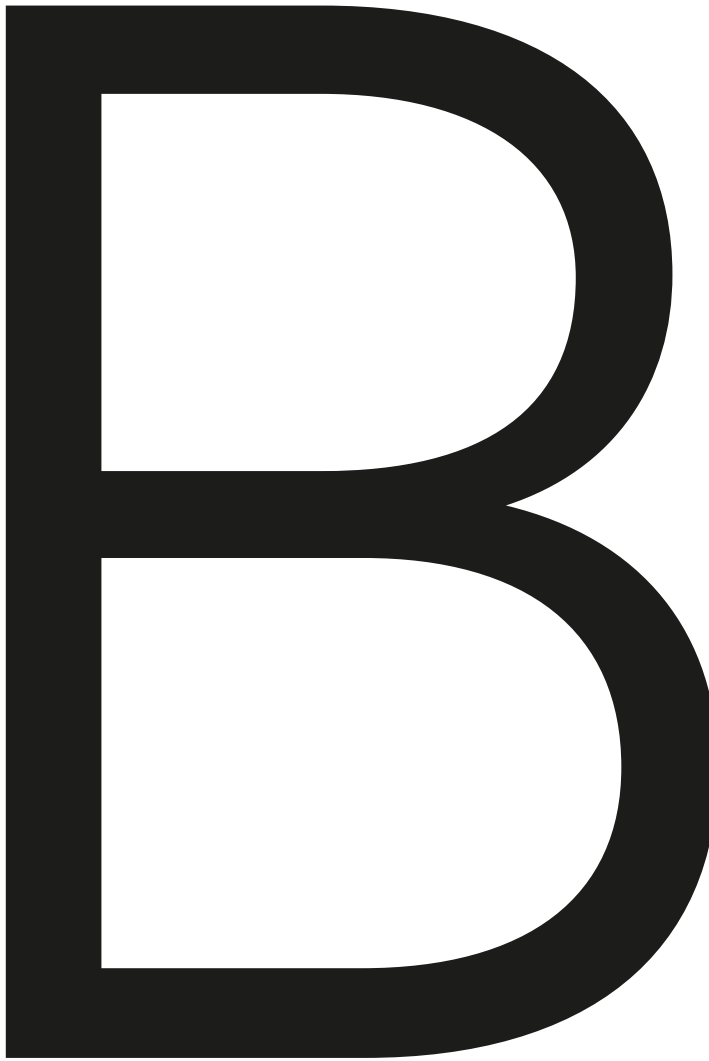

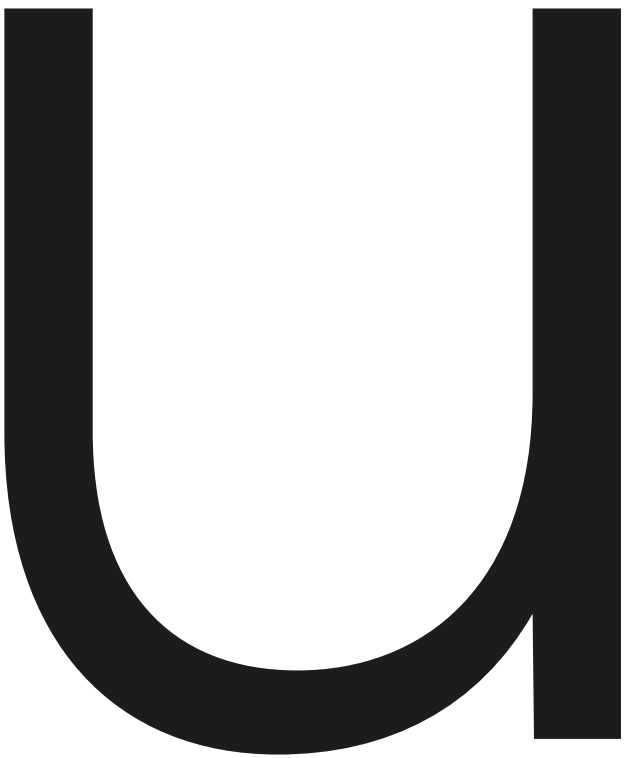

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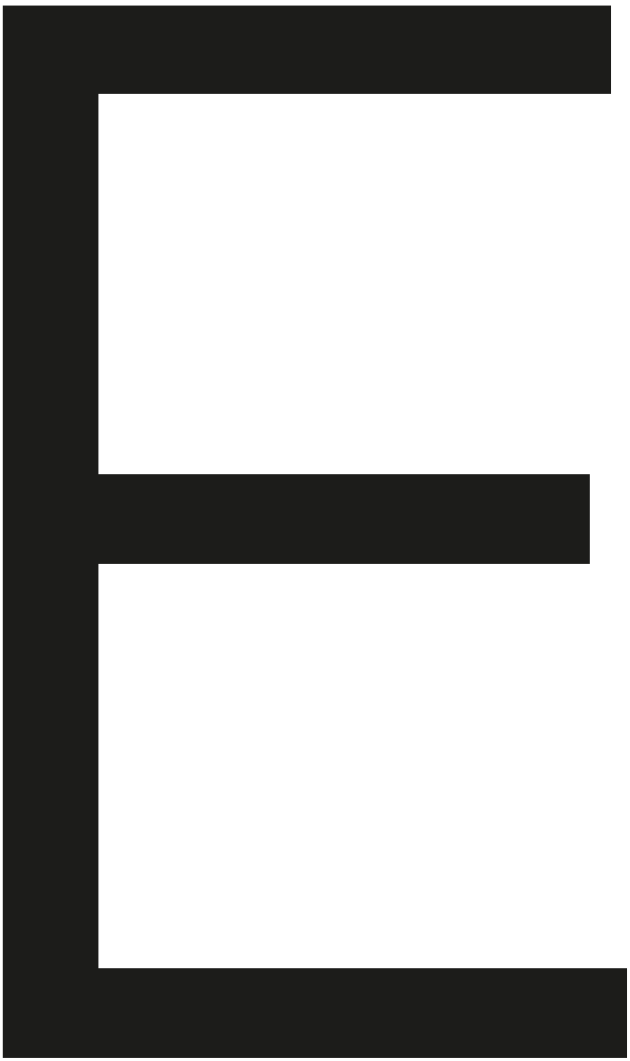

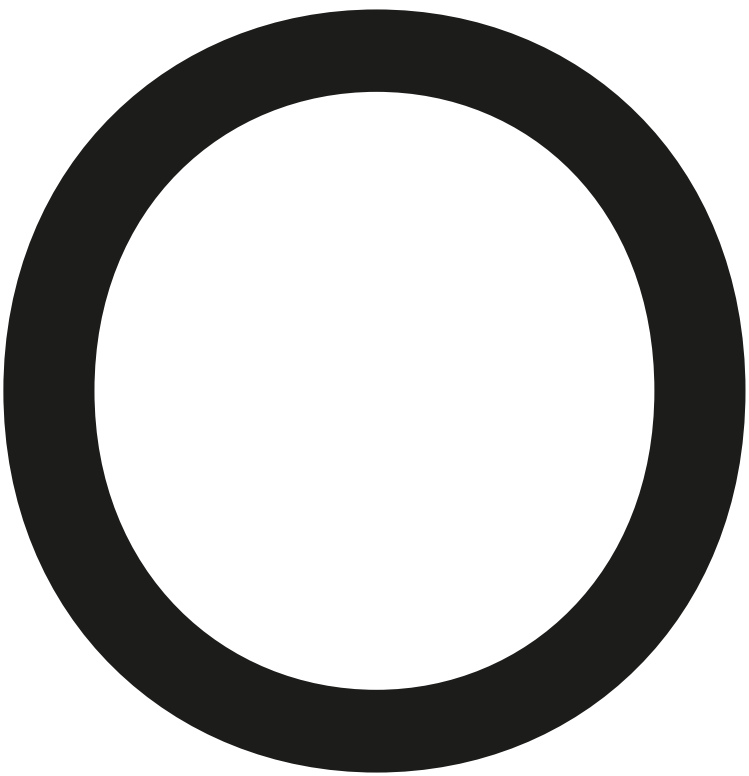

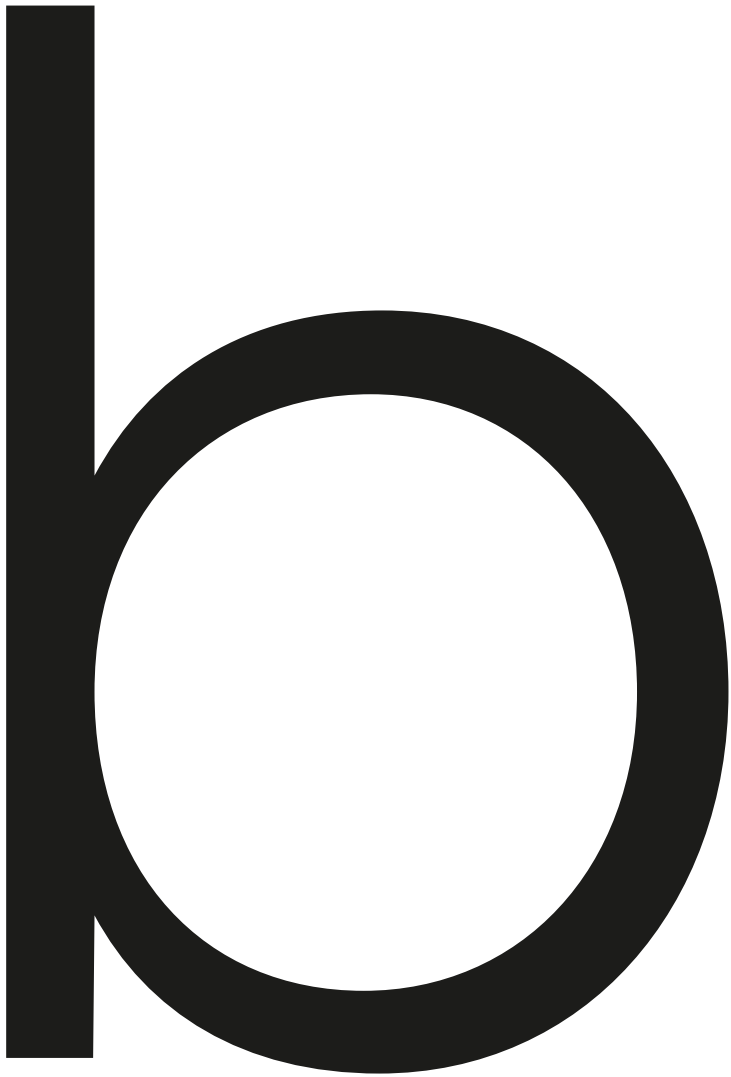

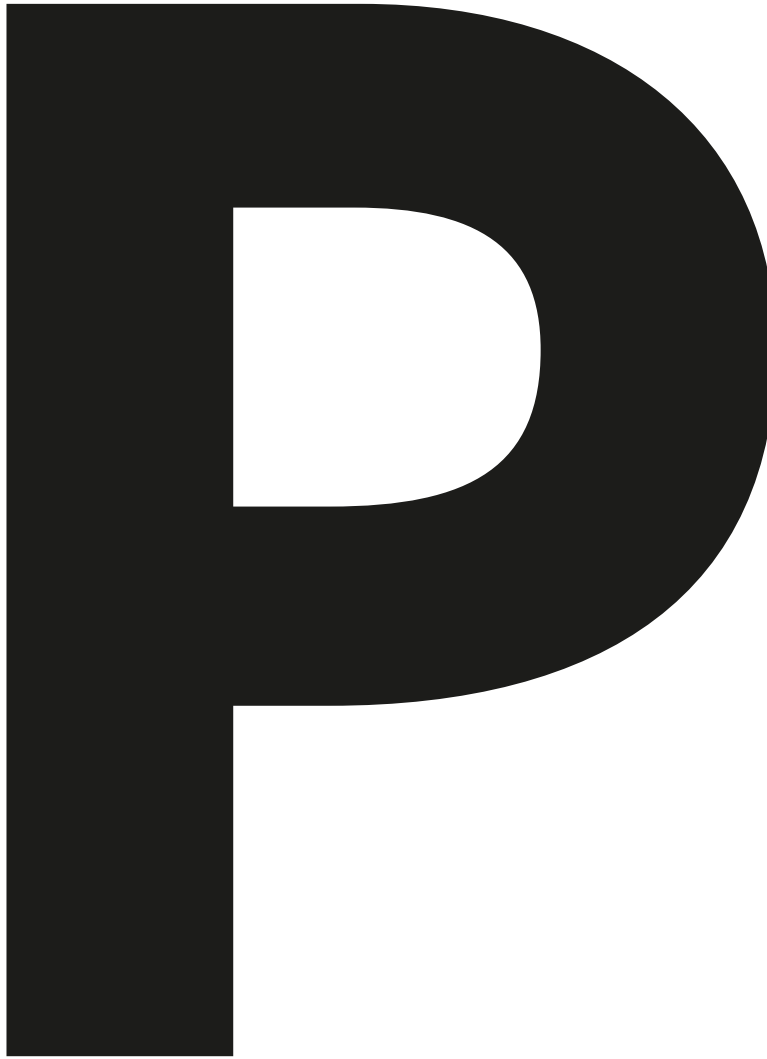

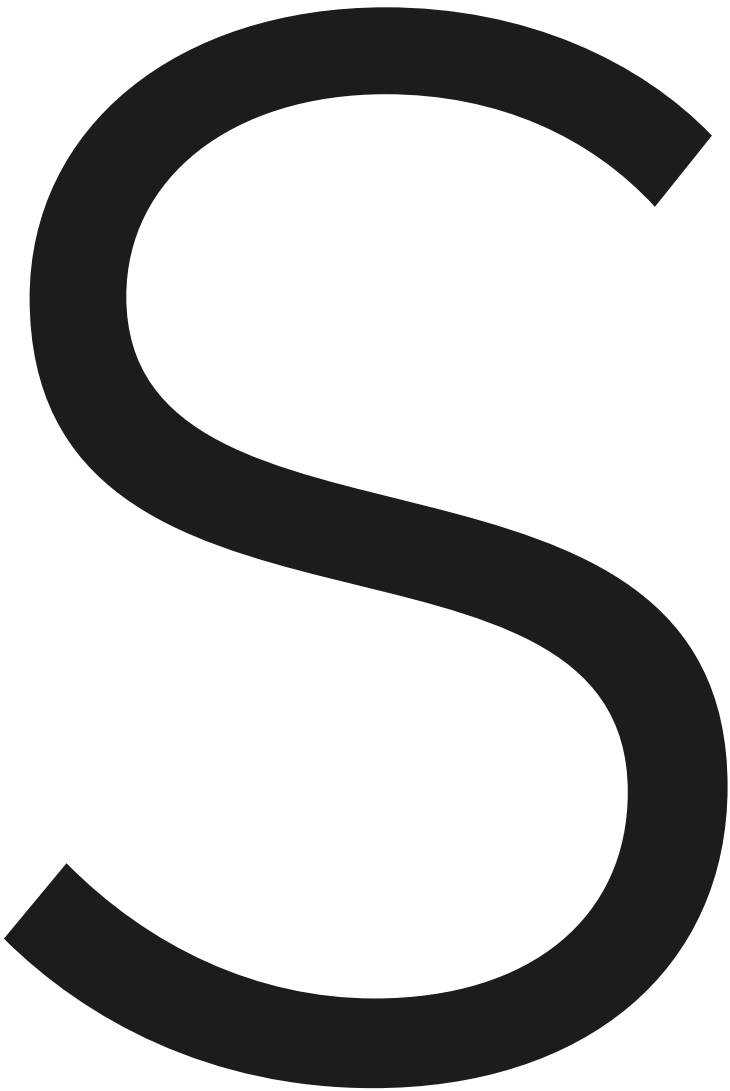

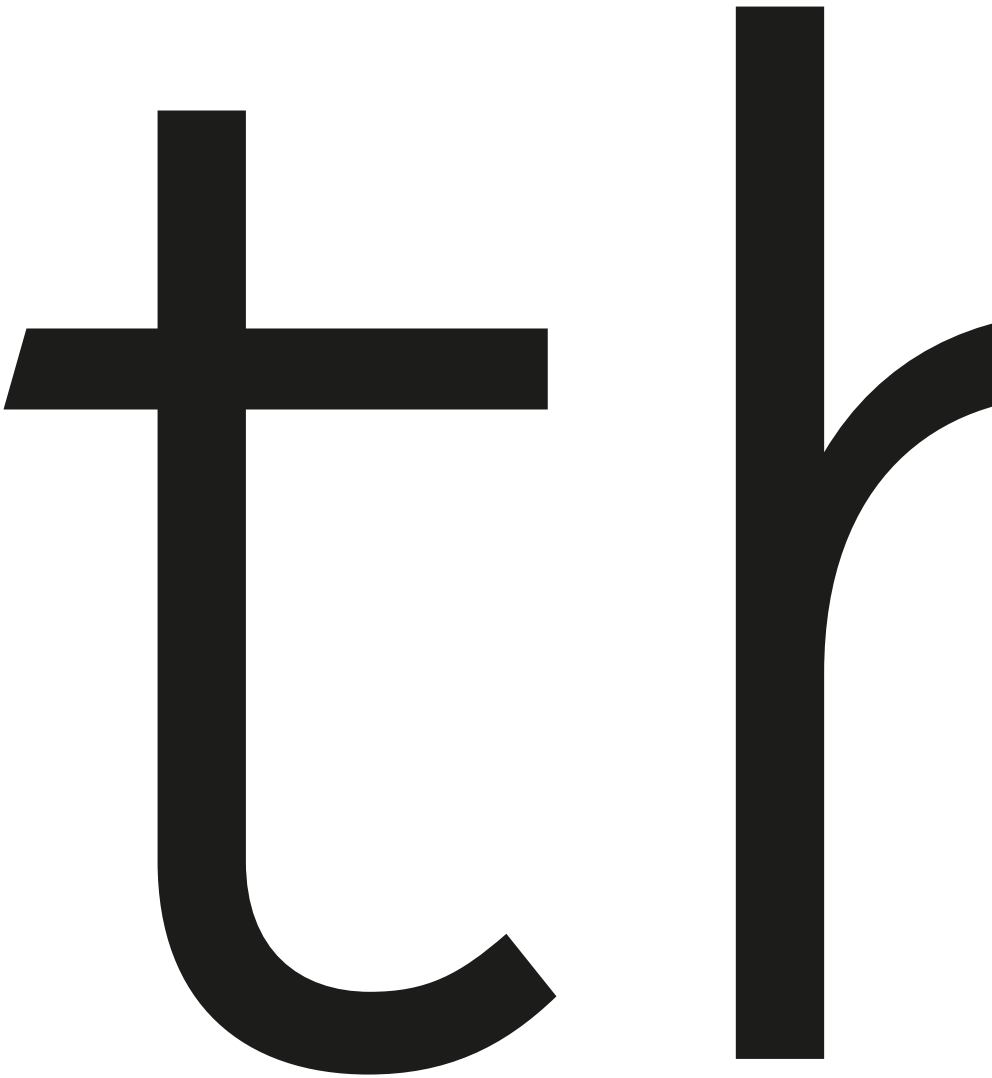

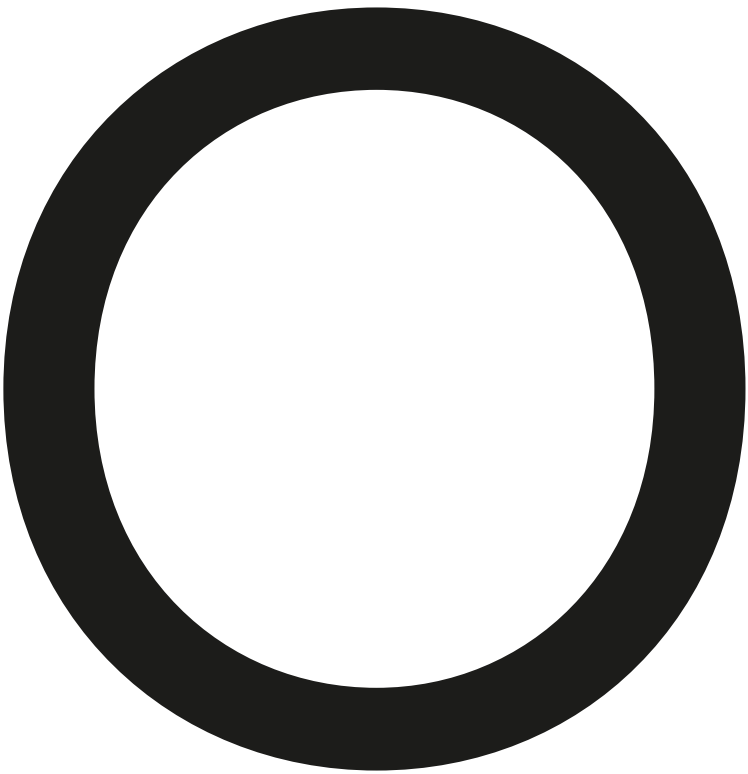

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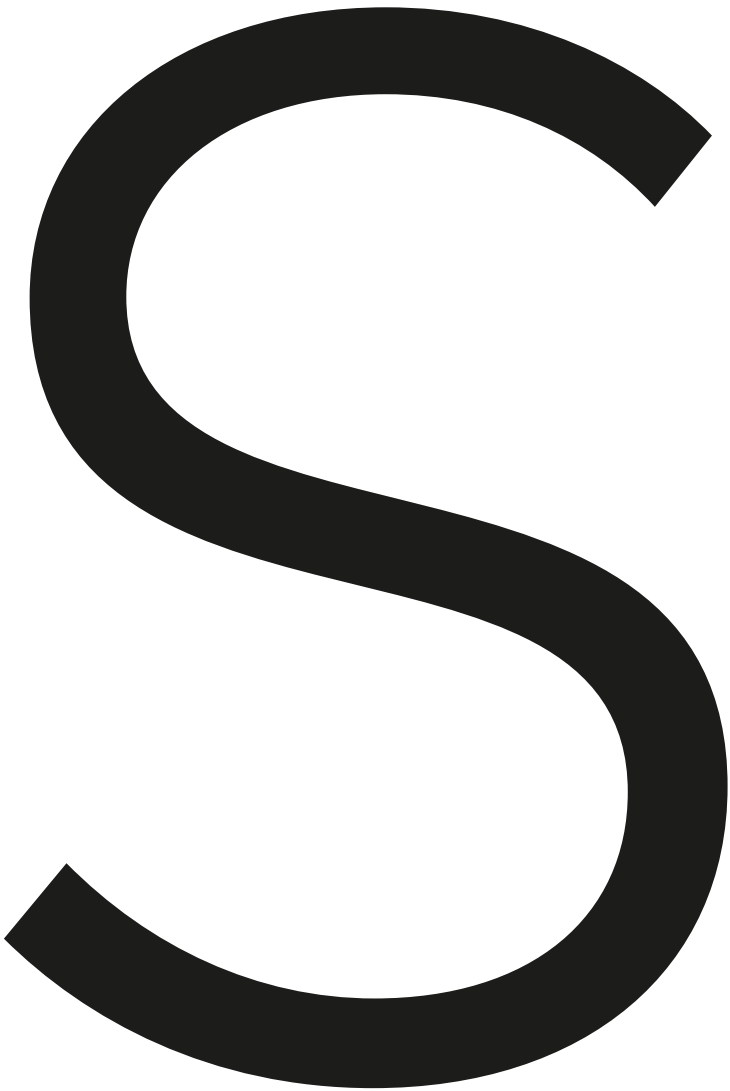

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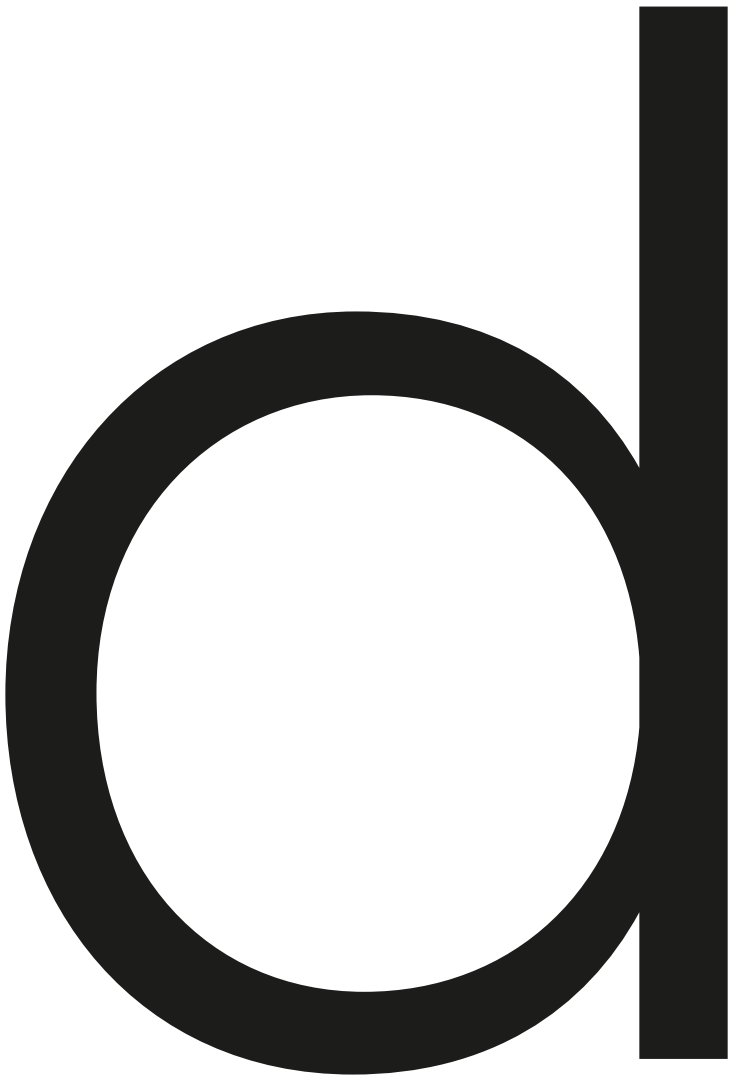

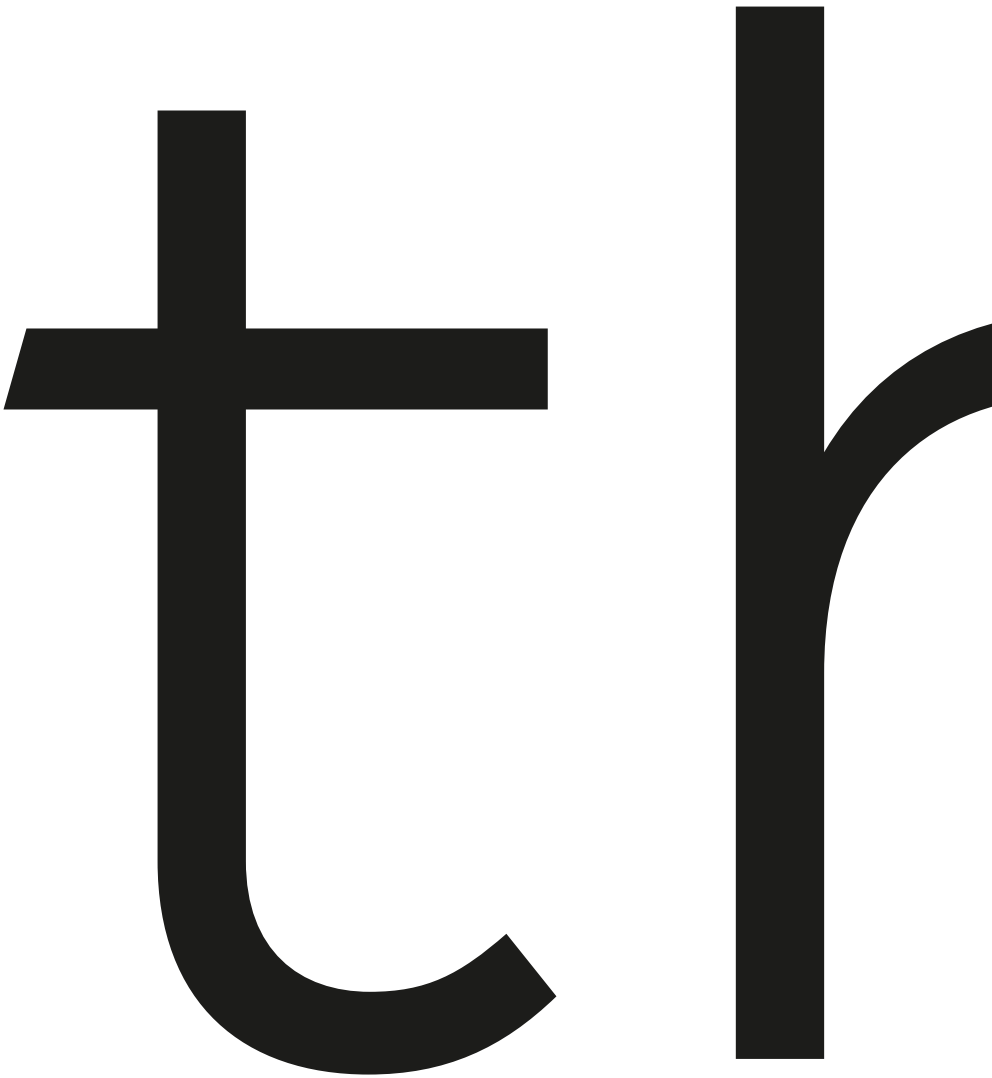

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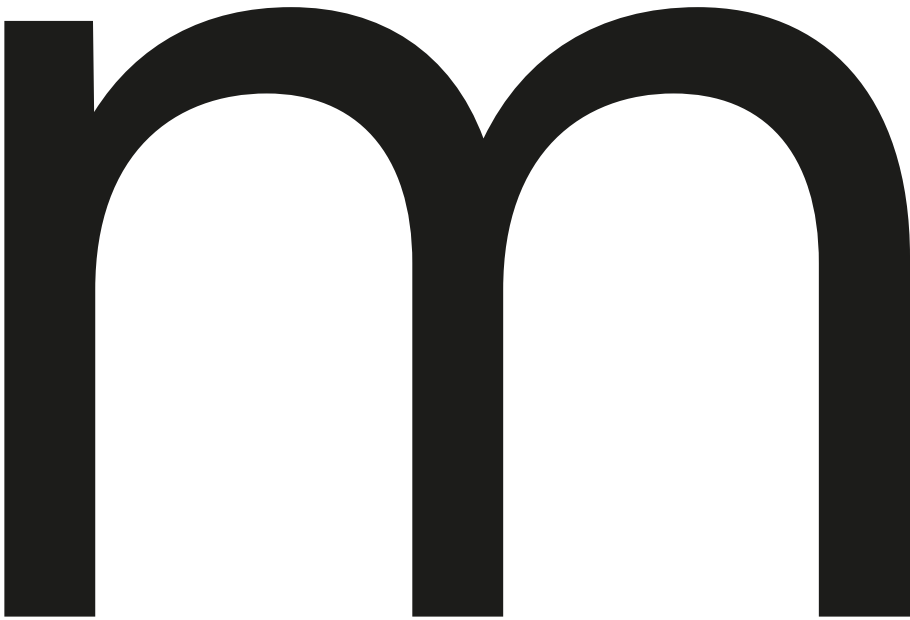

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Berücksichtigt man in der Bewegungsgleichung das gestrichenen Grössen durch den ungestrichenen, so erhält man zunächst

$$\frac{m\frac{dq}{dt}}{\left(1-\frac{q^2}{c^2}\right)^{\frac{3}{2}}} = \varepsilon n_x \quad \ldots \quad (26).$$

Berücksichtigt man, dass

$$\frac{\frac{dq}{dt}}{\left(1-\frac{q^2}{c^2}\right)^{\frac{3}{2}}} = \frac{d}{dt}\left\{\frac{q}{\sqrt{1-\frac{q^2}{c^2}}}\right\}$$

ist, und dass die rechte Seite von (26) nach einer Bemerkung des §2 also auf den materiellen Punkt wirkende Kraft K_x aufzufassen ist, so nimmt (26) die Form an

$$\frac{d}{dt}\left\{\frac{mq}{\sqrt{1-\frac{q^2}{c^2}}}\right\} = K_x \; K_x$$

Soll also in der Relativitätstheorie der Impulssatz aufrecht erhalten werden, so müssen wir den in der geschweiften Klammer stehenden Ausdruck als den Impuls des materiellen Punktes auffassen. Wir schliessen wir vorläufig allgemeinend, dass $\frac{mq}{\sqrt{1-\frac{q^2}{c^2}}}$ den Impulsvektor eines beliebig bewegten materiellen Punktes gliedert ist. Soll also der Impulssatz in der Relativitätstheorie aufrecht erhalten und die Grundlage der Lorentz'schen Elektrodynamik bleiben, so muss die Vektorgleichung der Bewegung des materiellen Punktes unter der Einwirkung der beliebigen Kraft K lauten

$$\frac{d}{dt}\left\{\frac{mq}{\sqrt{1-\frac{q^2}{c^2}}}\right\} = k \quad \ldots \quad (27)$$

Ist die einzige auf den materiellen Punkt wirkende Kraft elektrodynamischer Natur, so ist hierbei $k = \varepsilon\left\{n + \left[\frac{q}{c}, f\right]\right\}$ zu setzen.

Es ist leicht zu zeigen, dass (27) auch dem Energiesatz genügt, wenn als Ausdruck für k_q (die auf den pro Zeiteinheit an dem materiellen Punkte geleistete Arbeit beibehalten wird. Man erhält nämlich

$$k_q = q\frac{d}{dt}\left\{\frac{mq}{\sqrt{1-\frac{q^2}{c^2}}}\right\} = \frac{d}{dt}\left\{\frac{mq^2}{\sqrt{1-\frac{q^2}{c^2}}}\right\} - \frac{mq\dot{q}}{\sqrt{\quad}} = \frac{d}{dt}\left\{\frac{mq^2}{\sqrt{1-\frac{q^2}{c^2}}} + mc^2\sqrt{1-\frac{q^2}{c^2}}\right\}$$

oder

$$k_q = \frac{d}{dt}\left\{\frac{mc^2}{\sqrt{1-\frac{q^2}{c^2}}}\right\}. \quad \ldots \quad (27a)$$

Der Ausdruck unter der Klammer rechts spielt die Rolle der kinetischen Energie des bewegten Massenpunktes, wir nennen deshalb diesen Ausdruck nicht für $\mathfrak{L}$ = Lagrangesche Funktion. Dieser Ausdruck

$$\mathfrak{L} = \frac{mc^2}{\sqrt{1-\frac{q^2}{c^2}}} \quad \ldots \quad (27a)(28)$$

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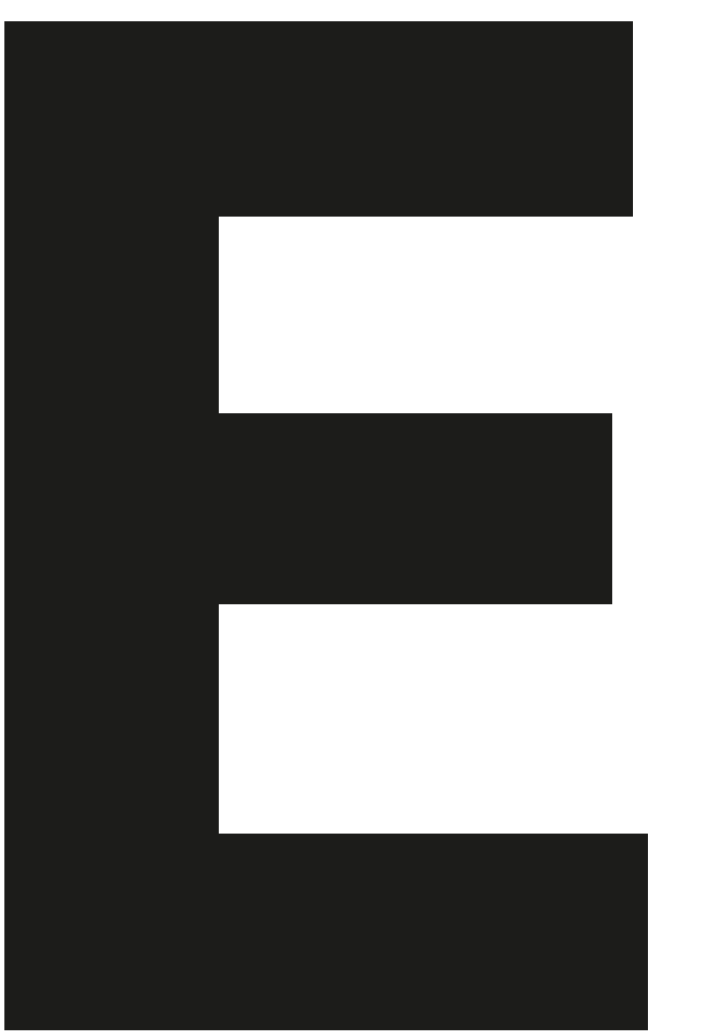

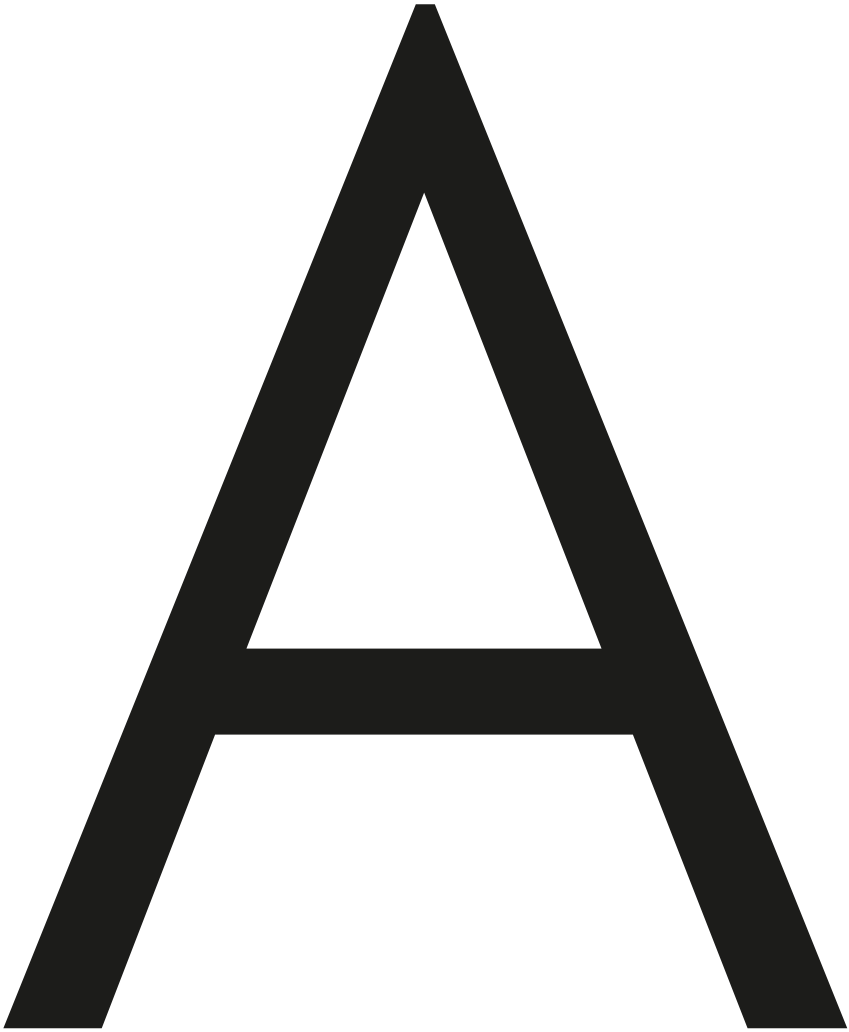

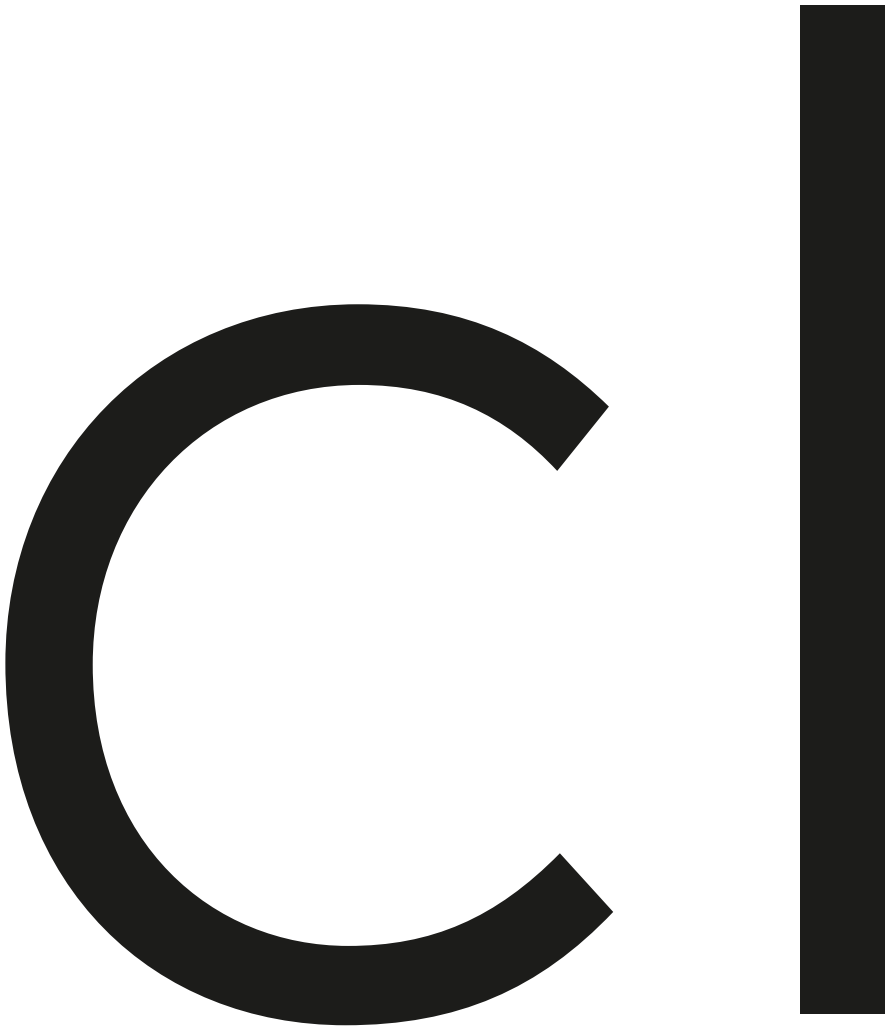

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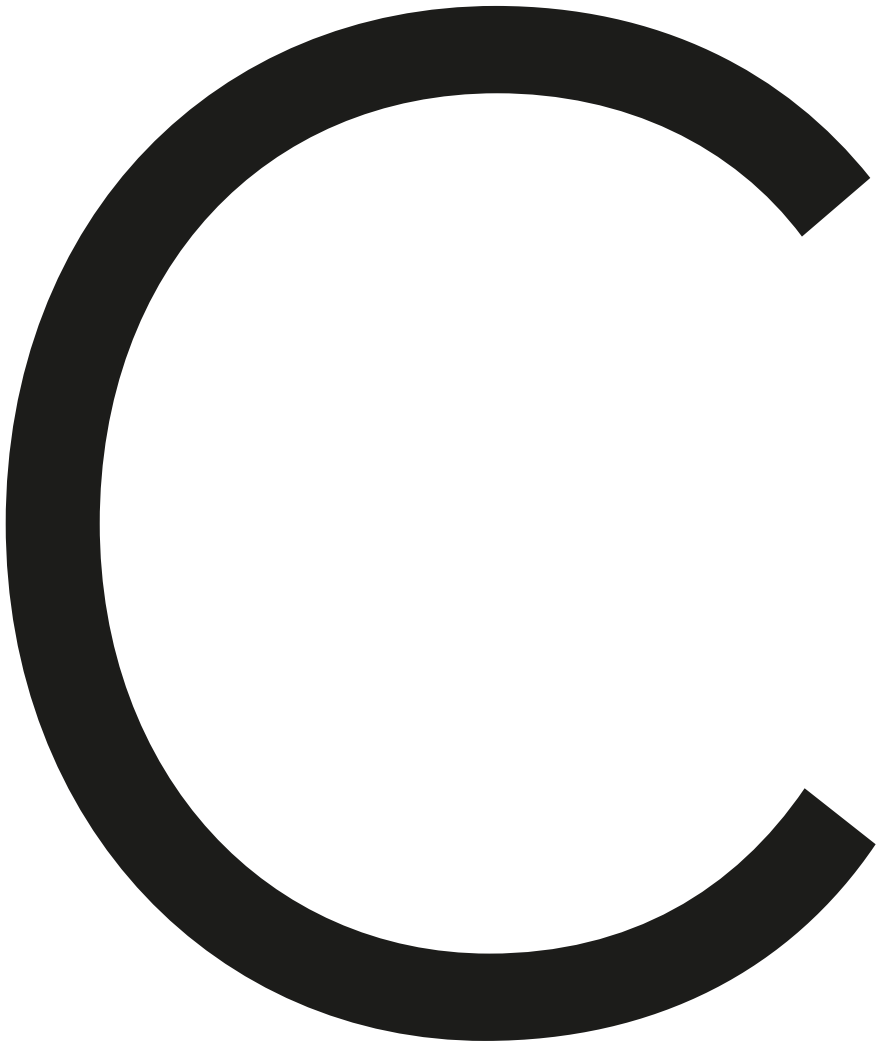

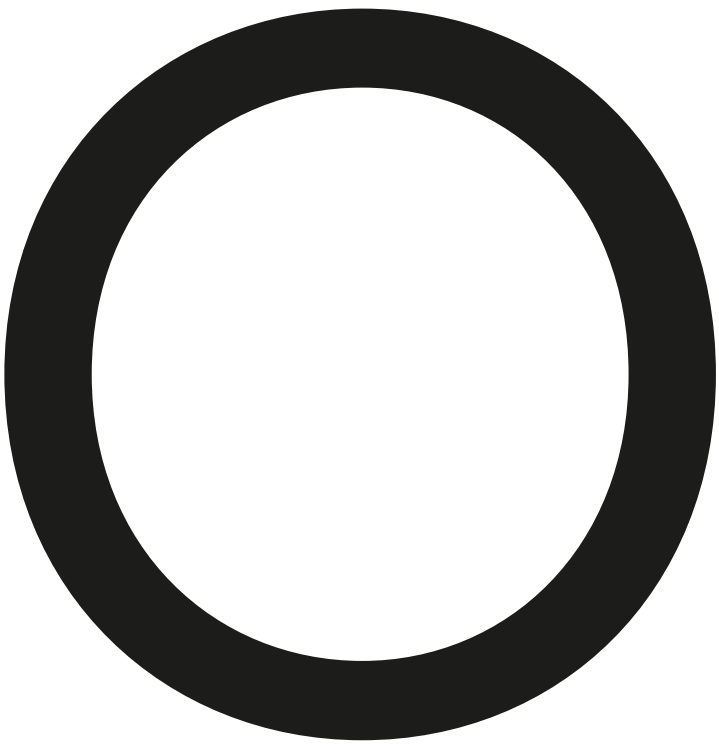

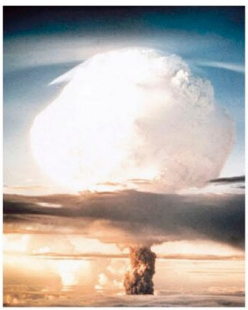

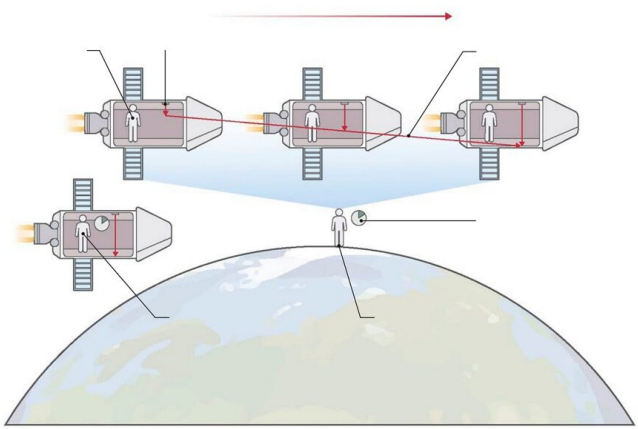

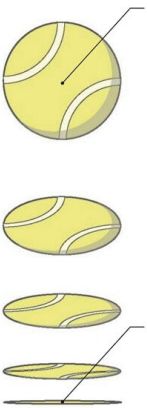

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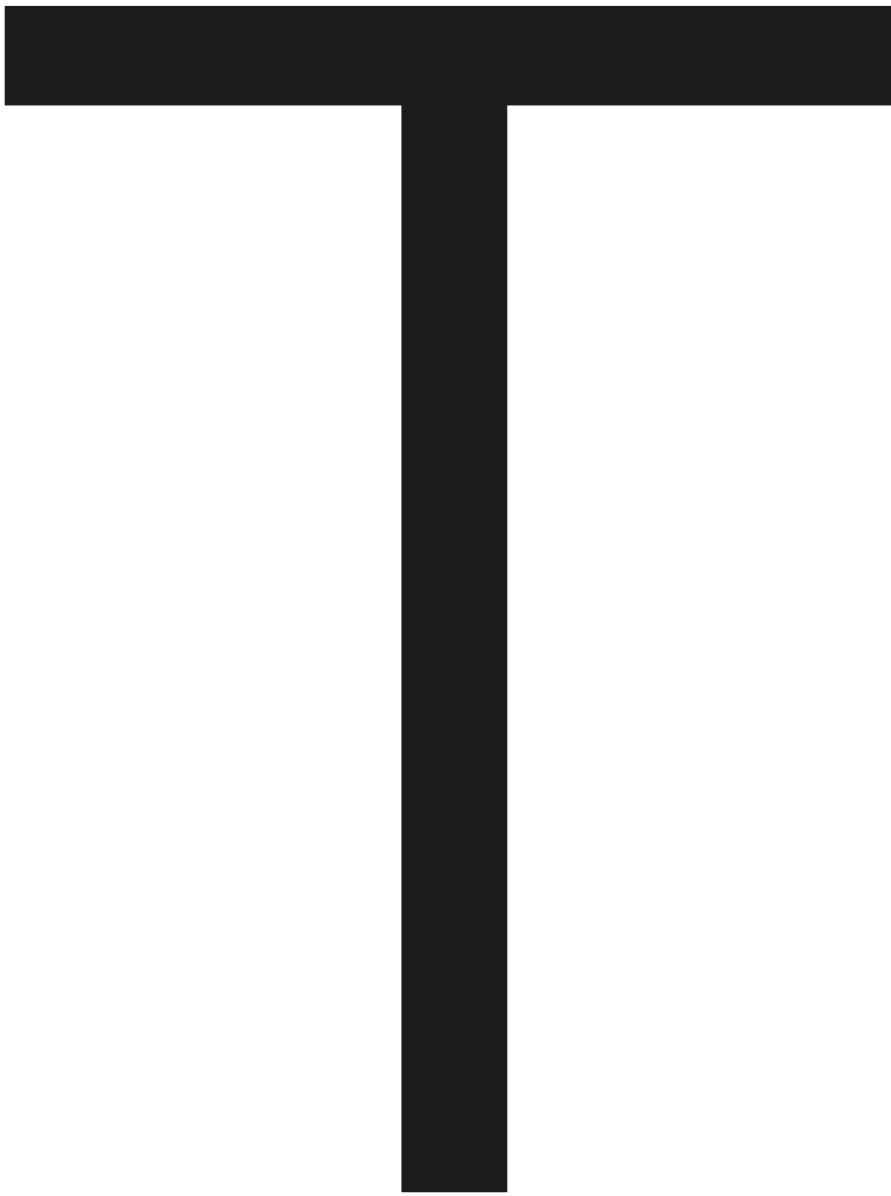

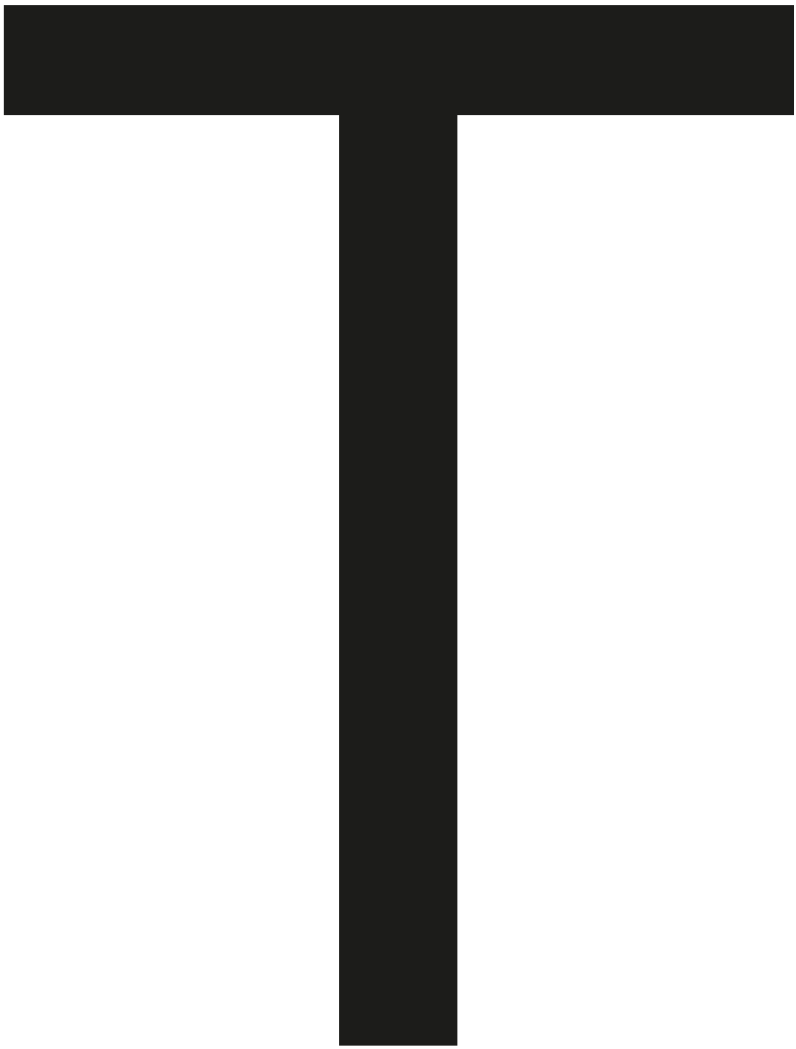

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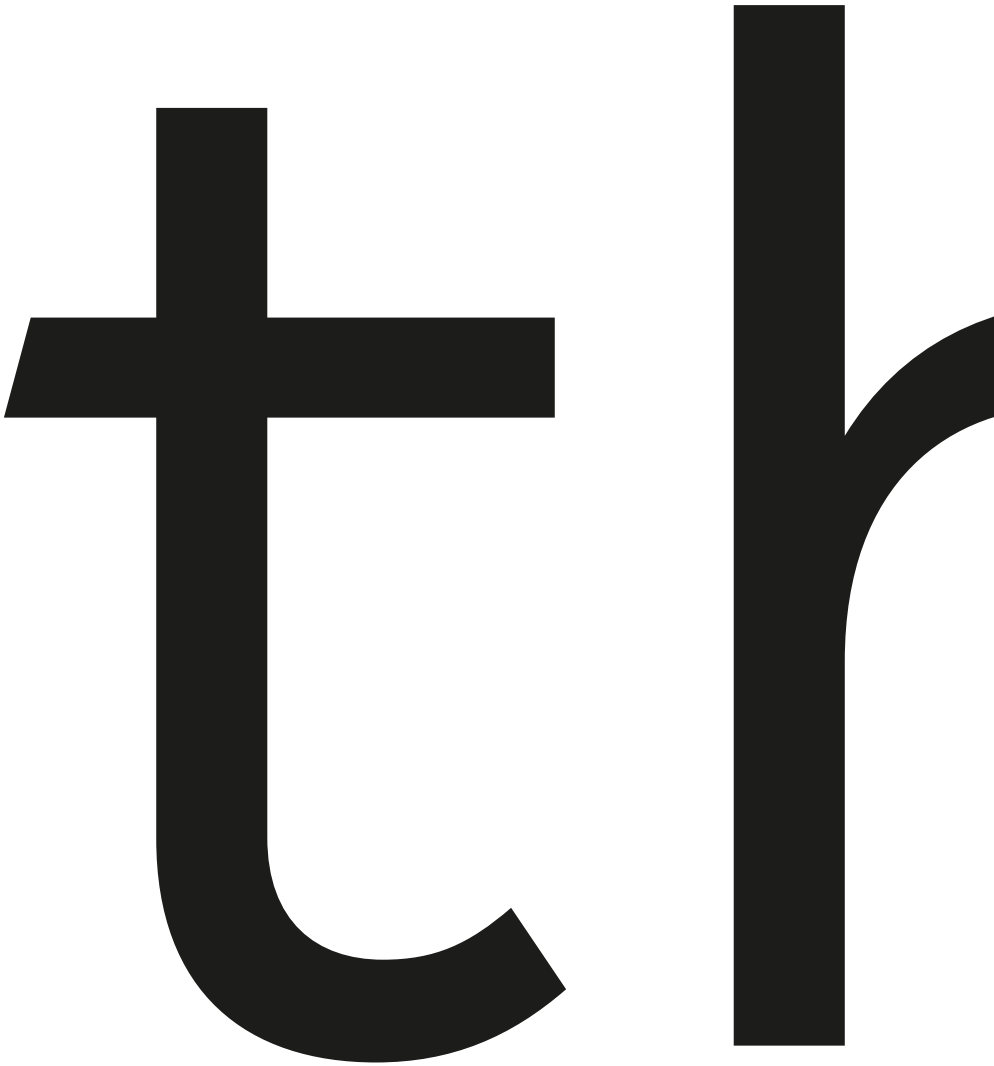

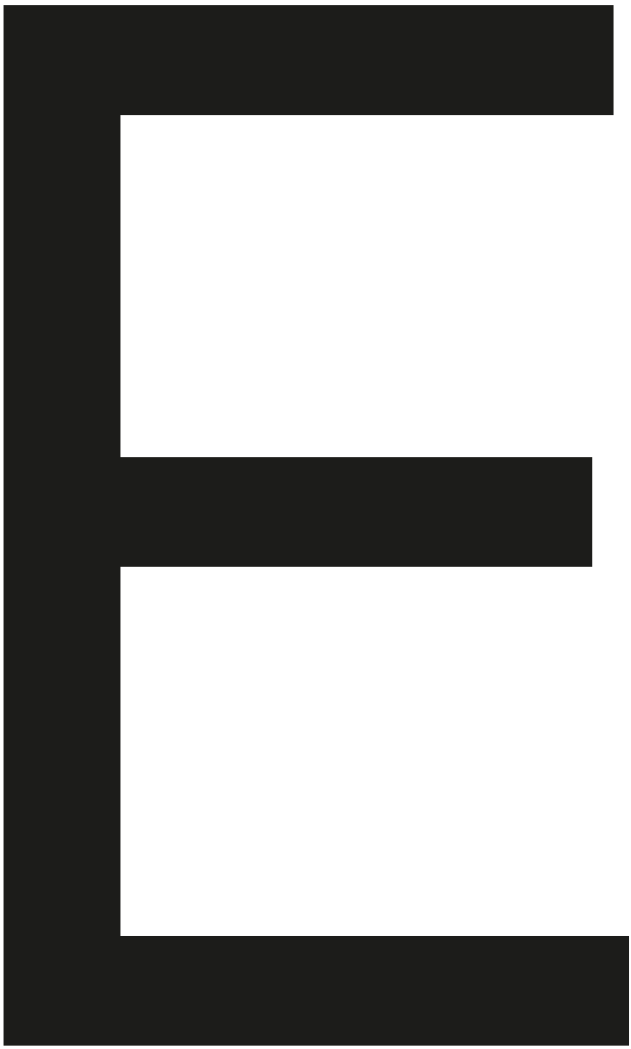

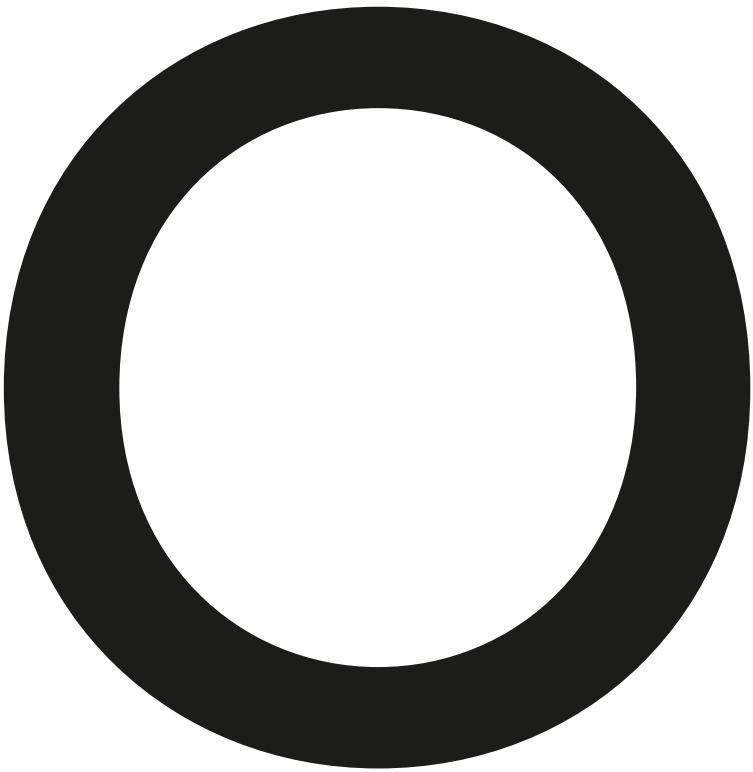

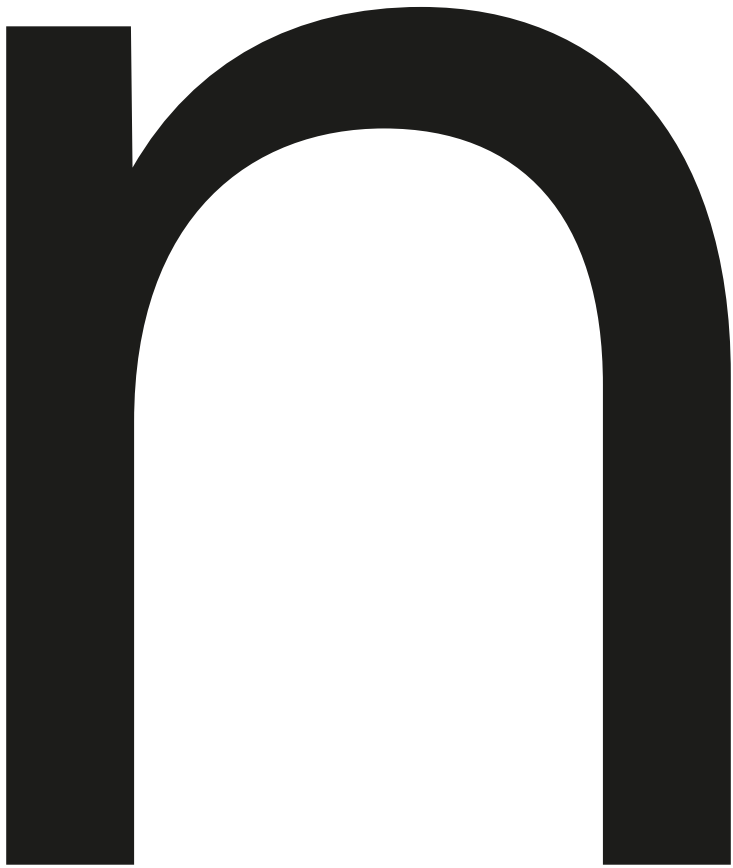

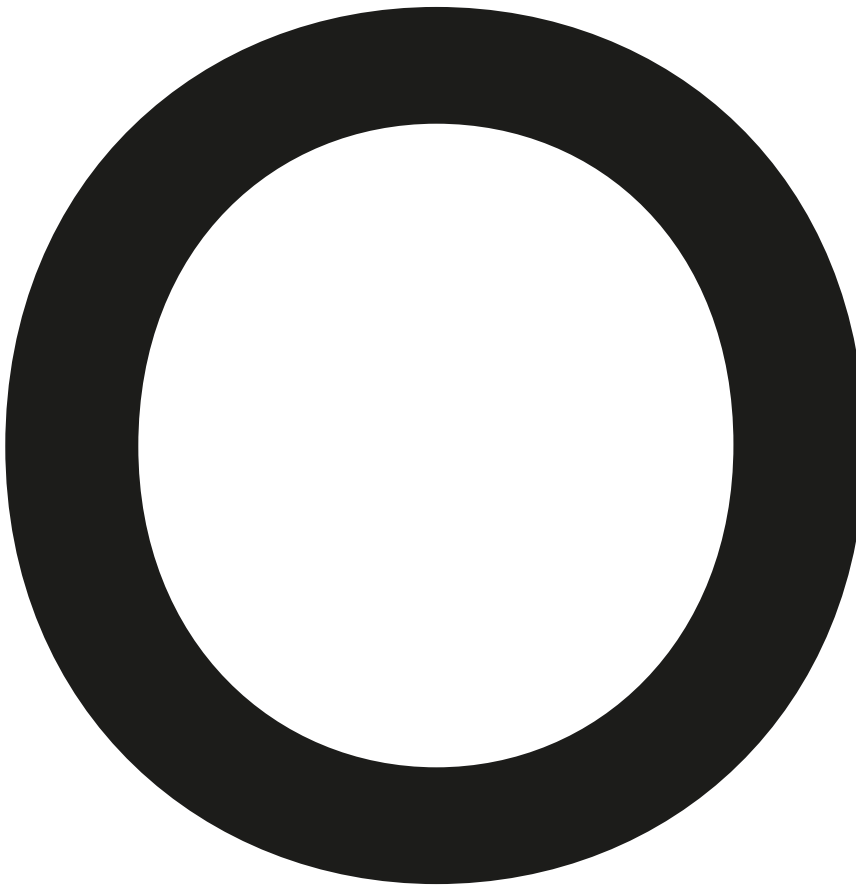

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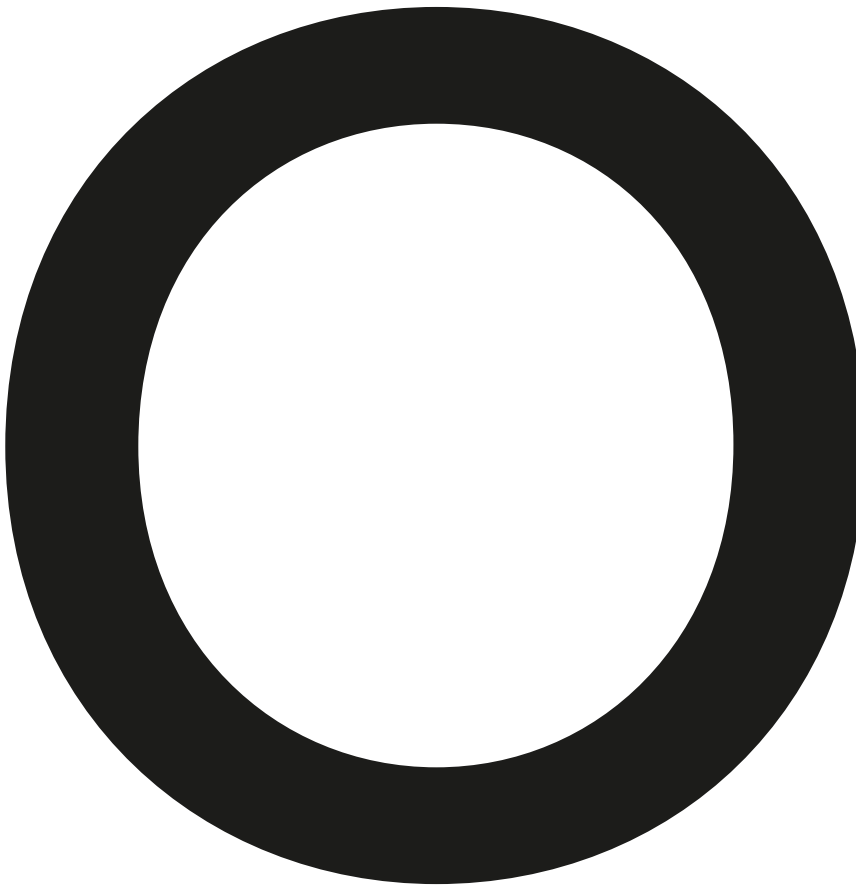

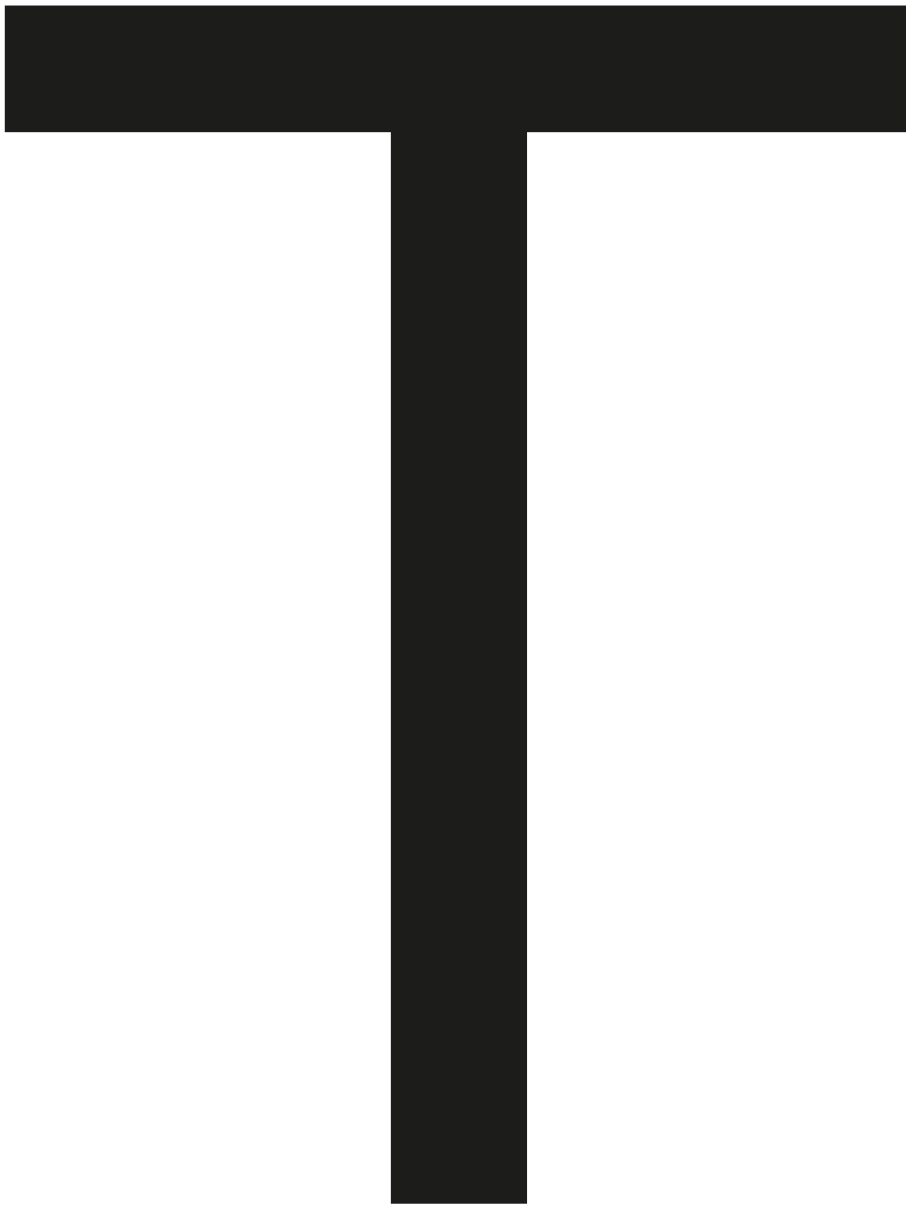

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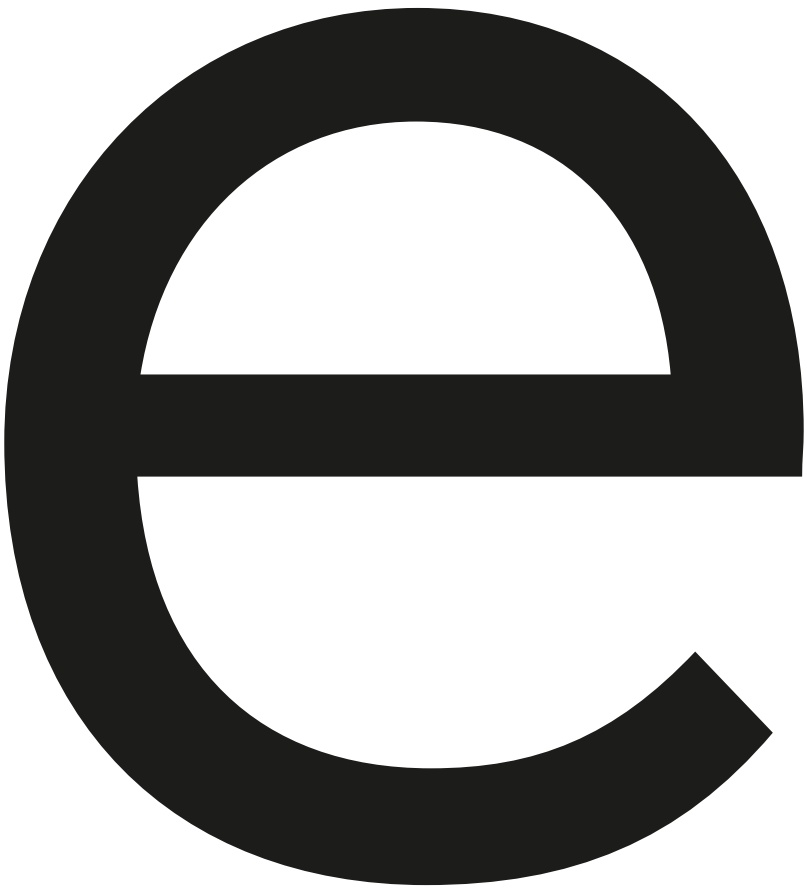

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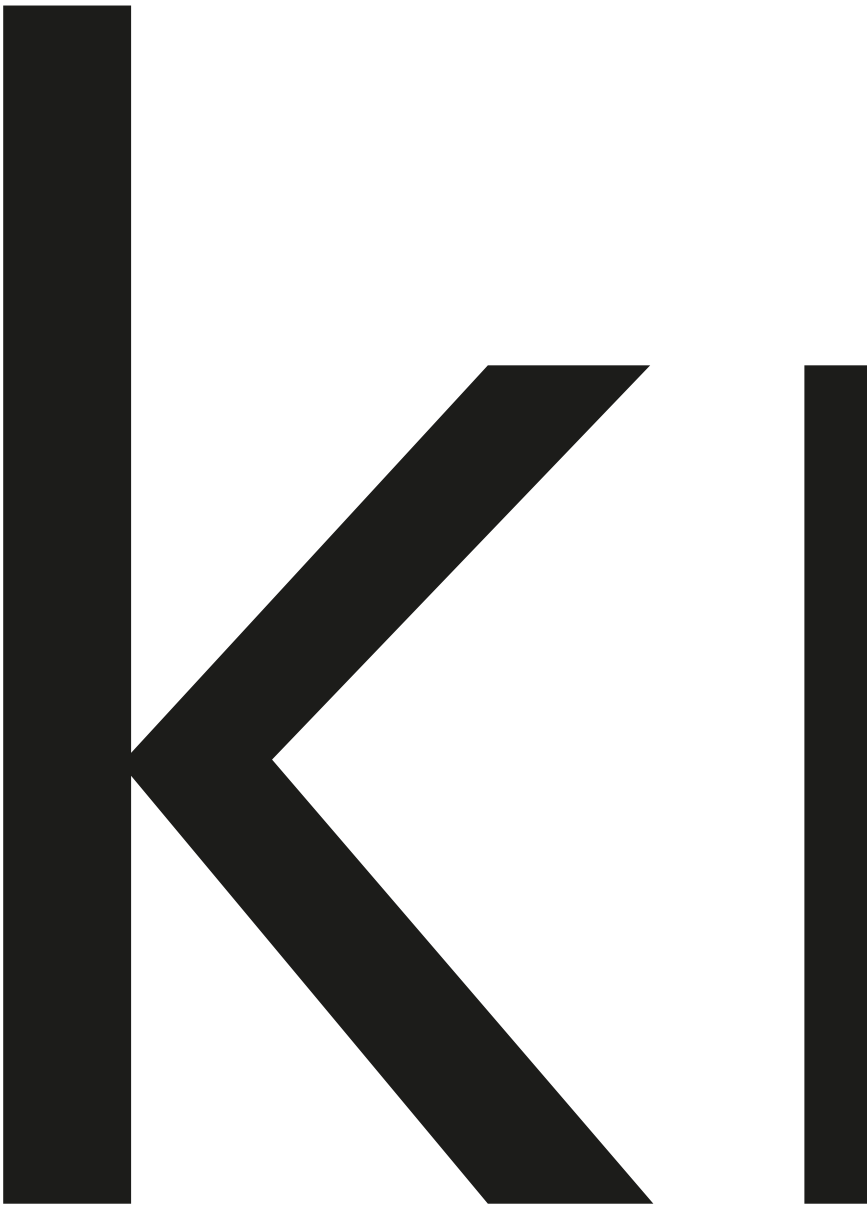

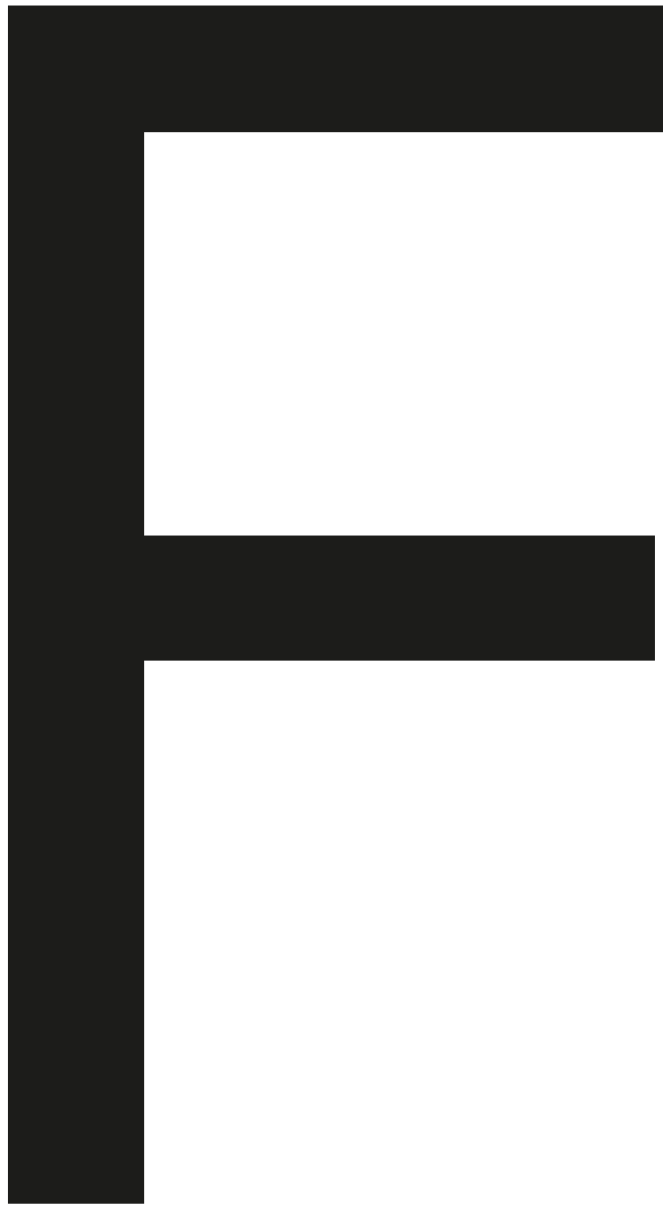

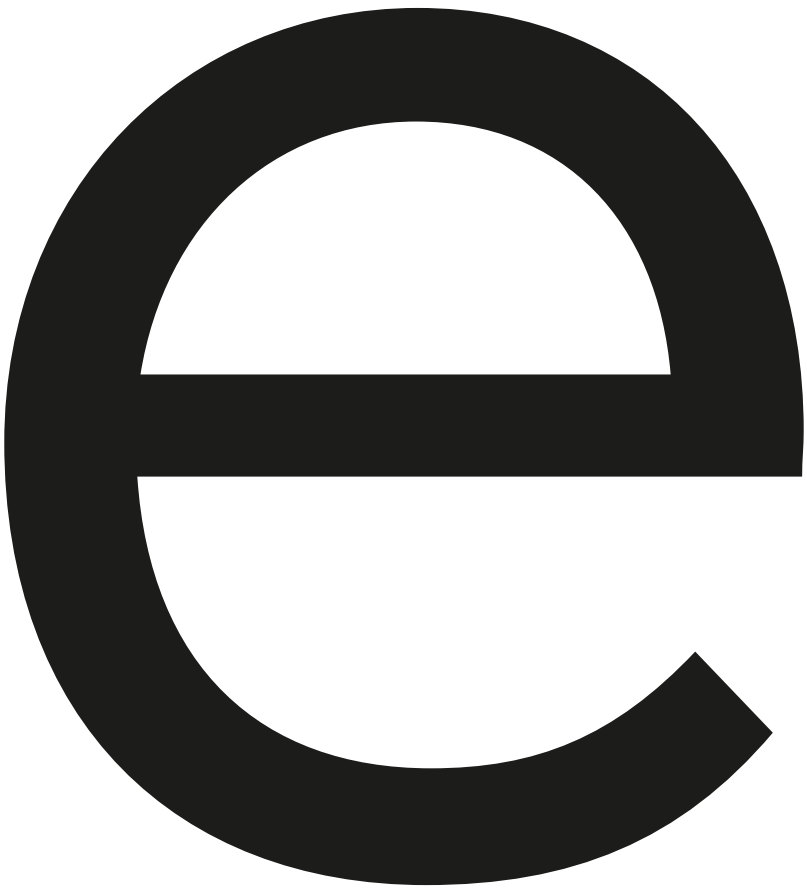

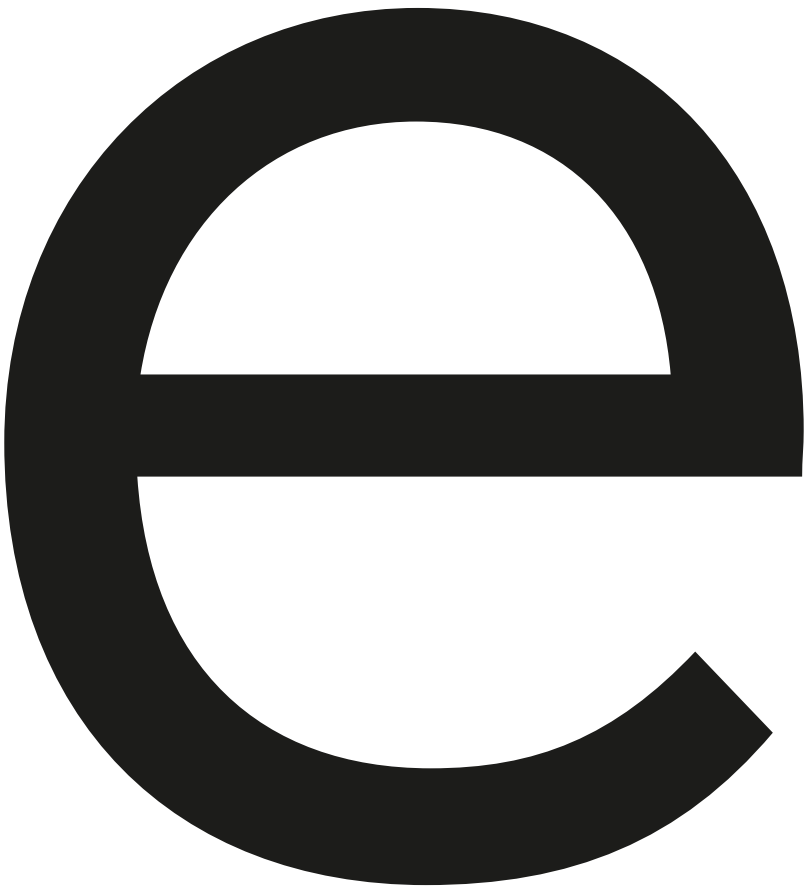

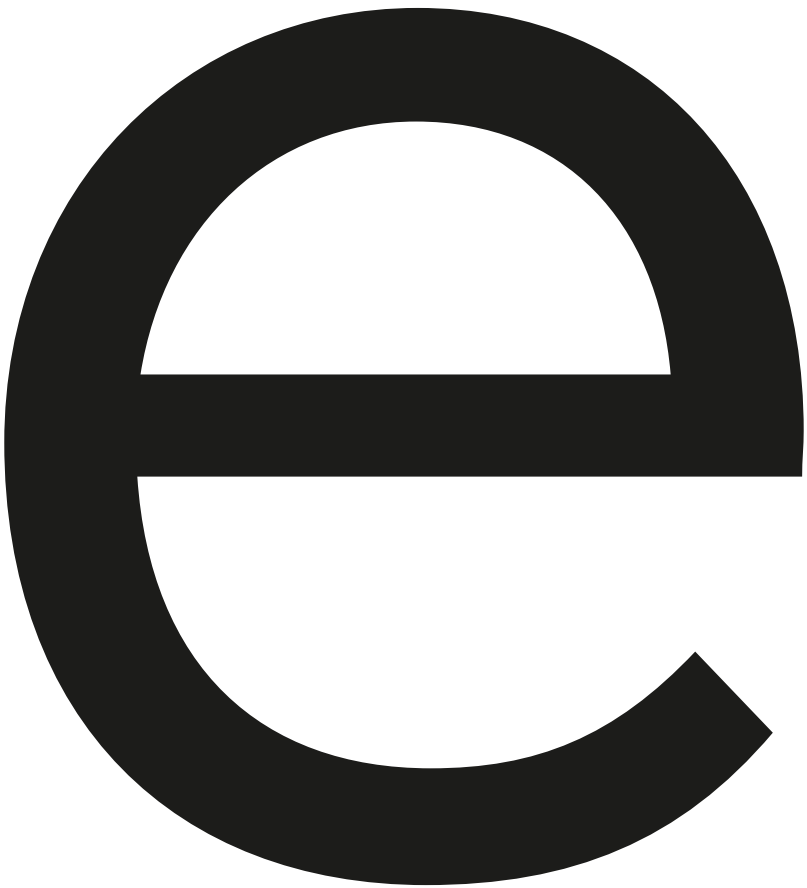

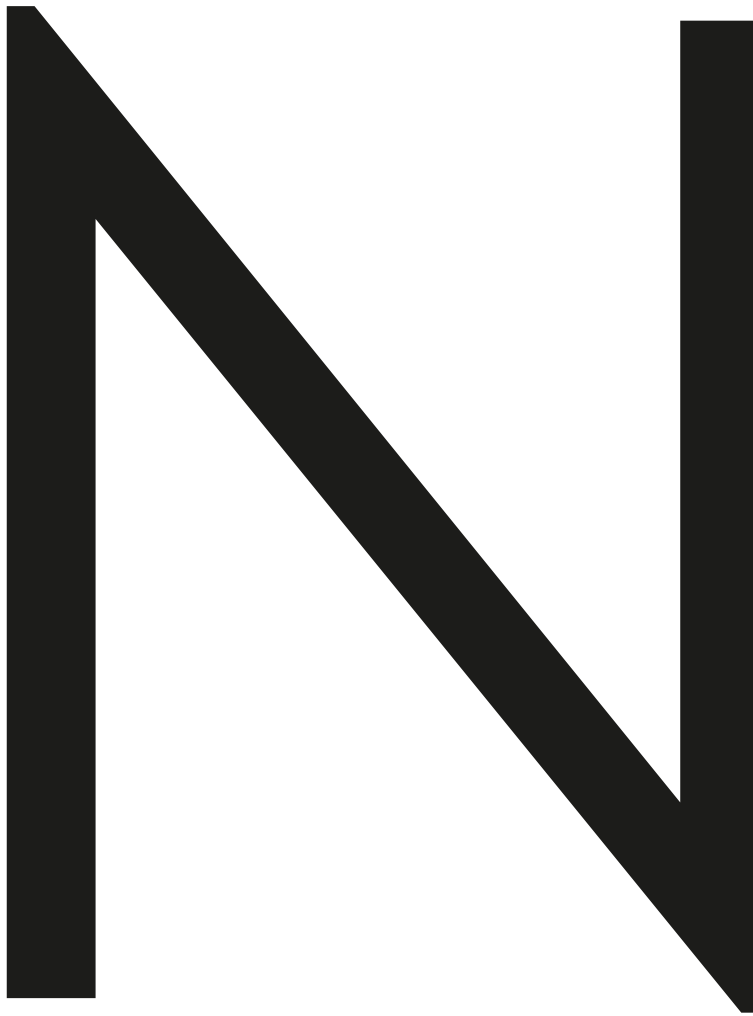

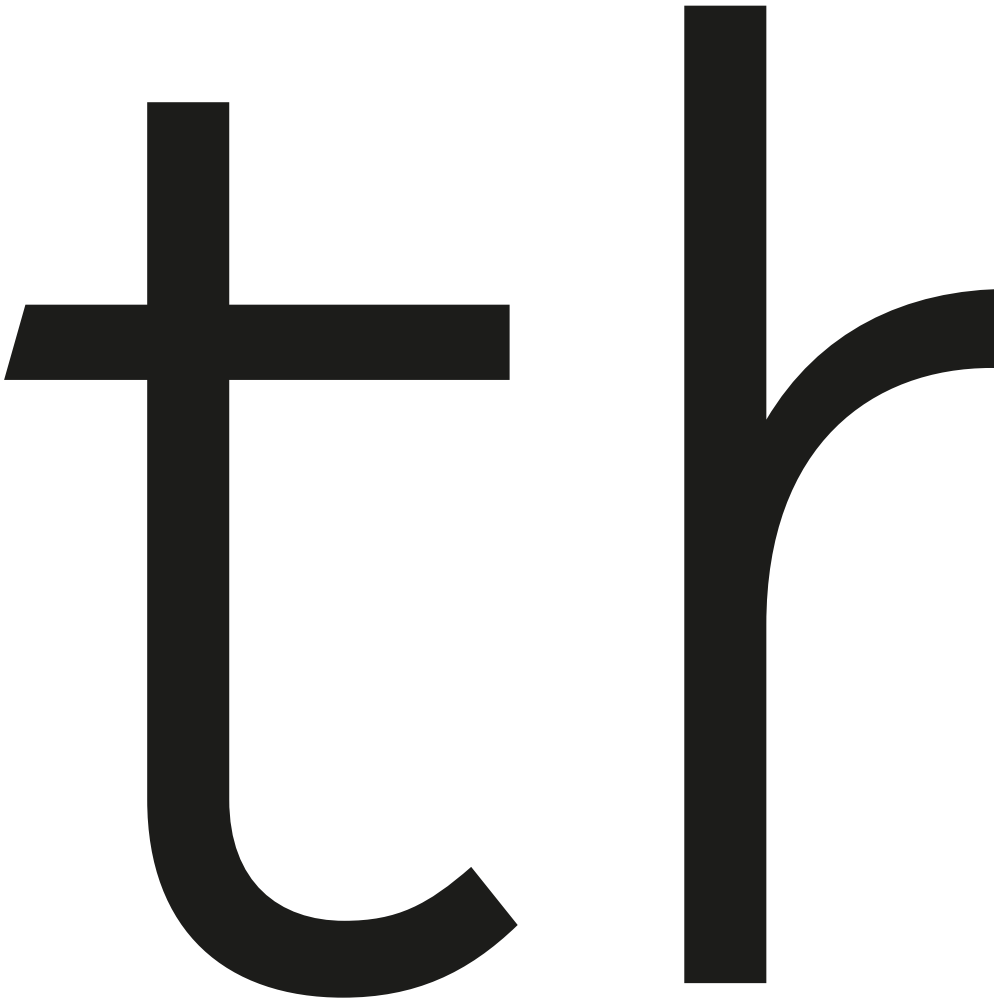

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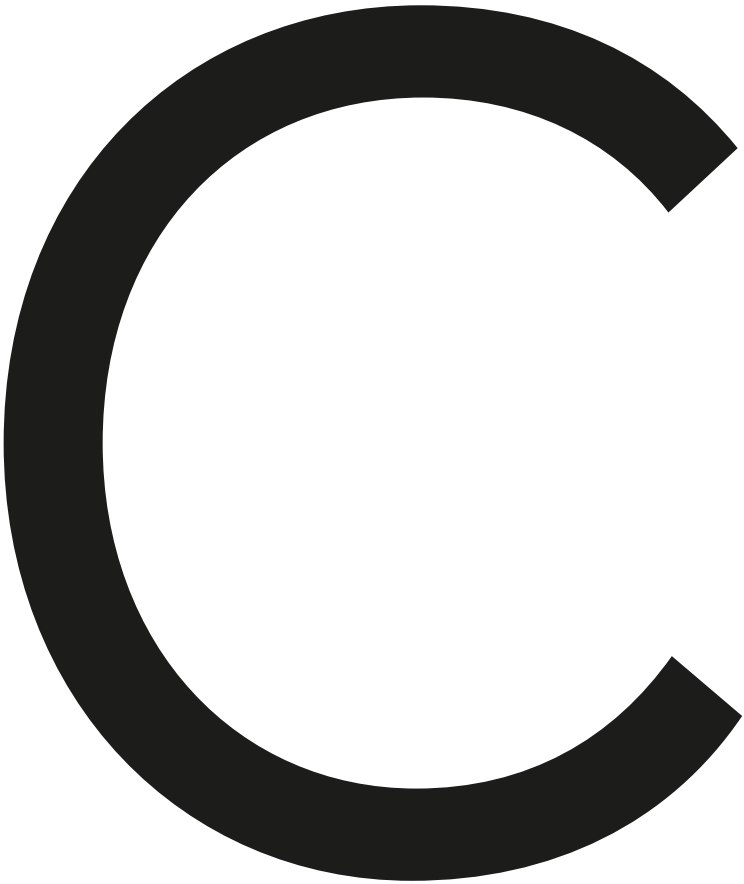

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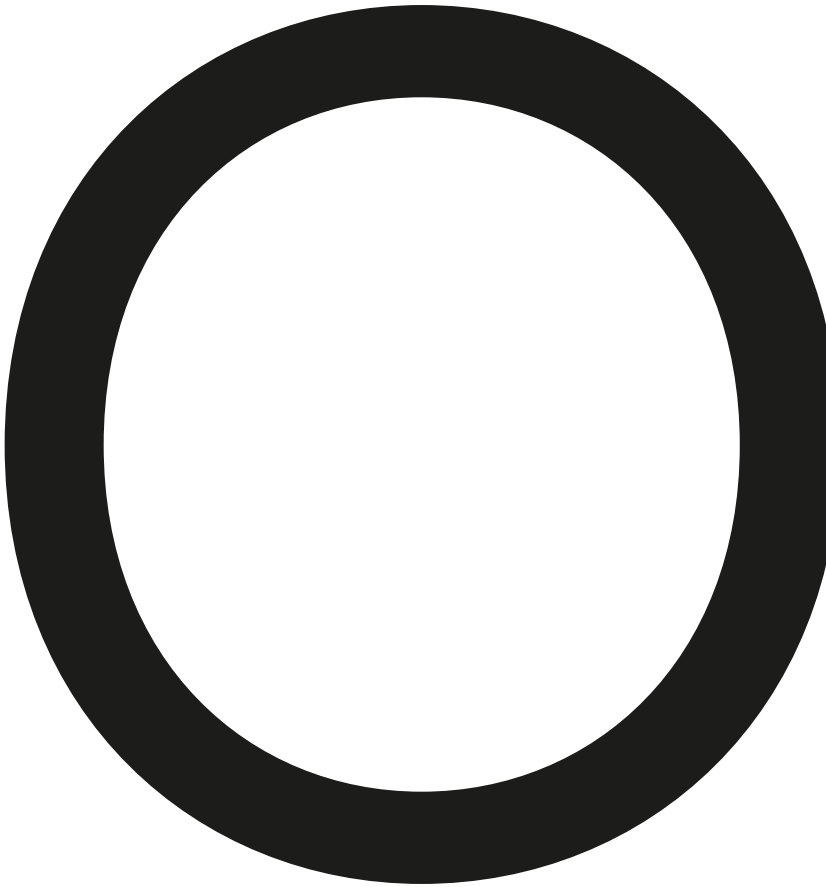

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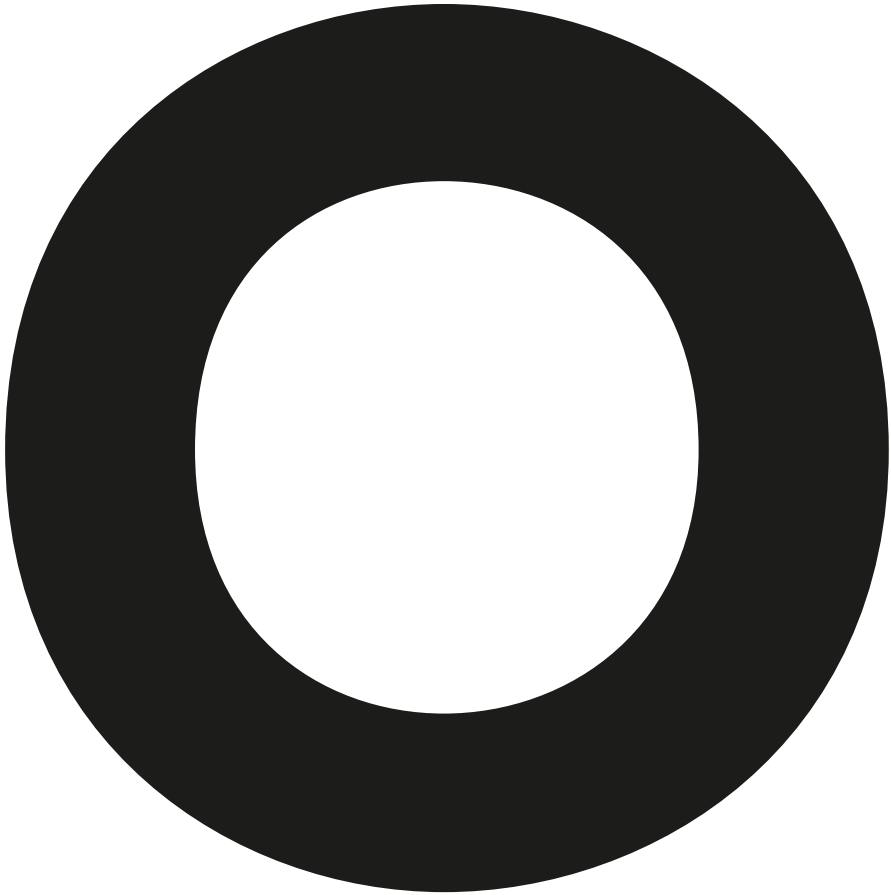

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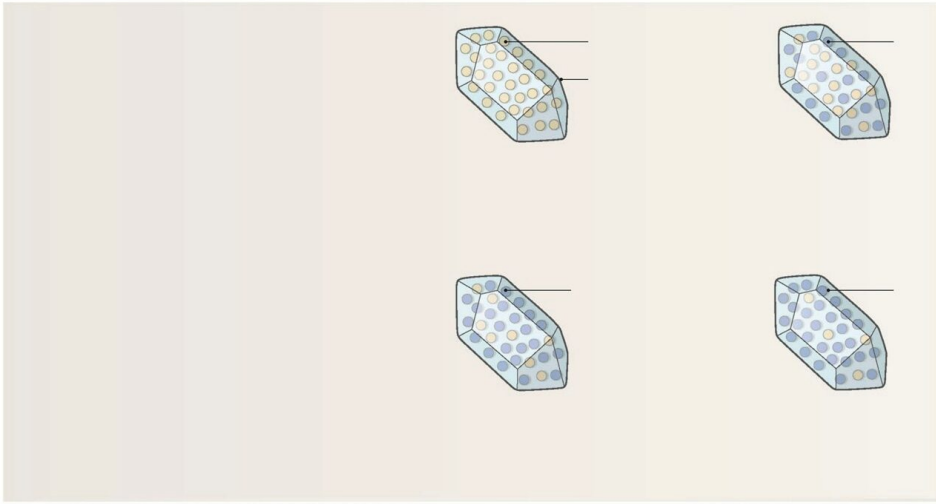

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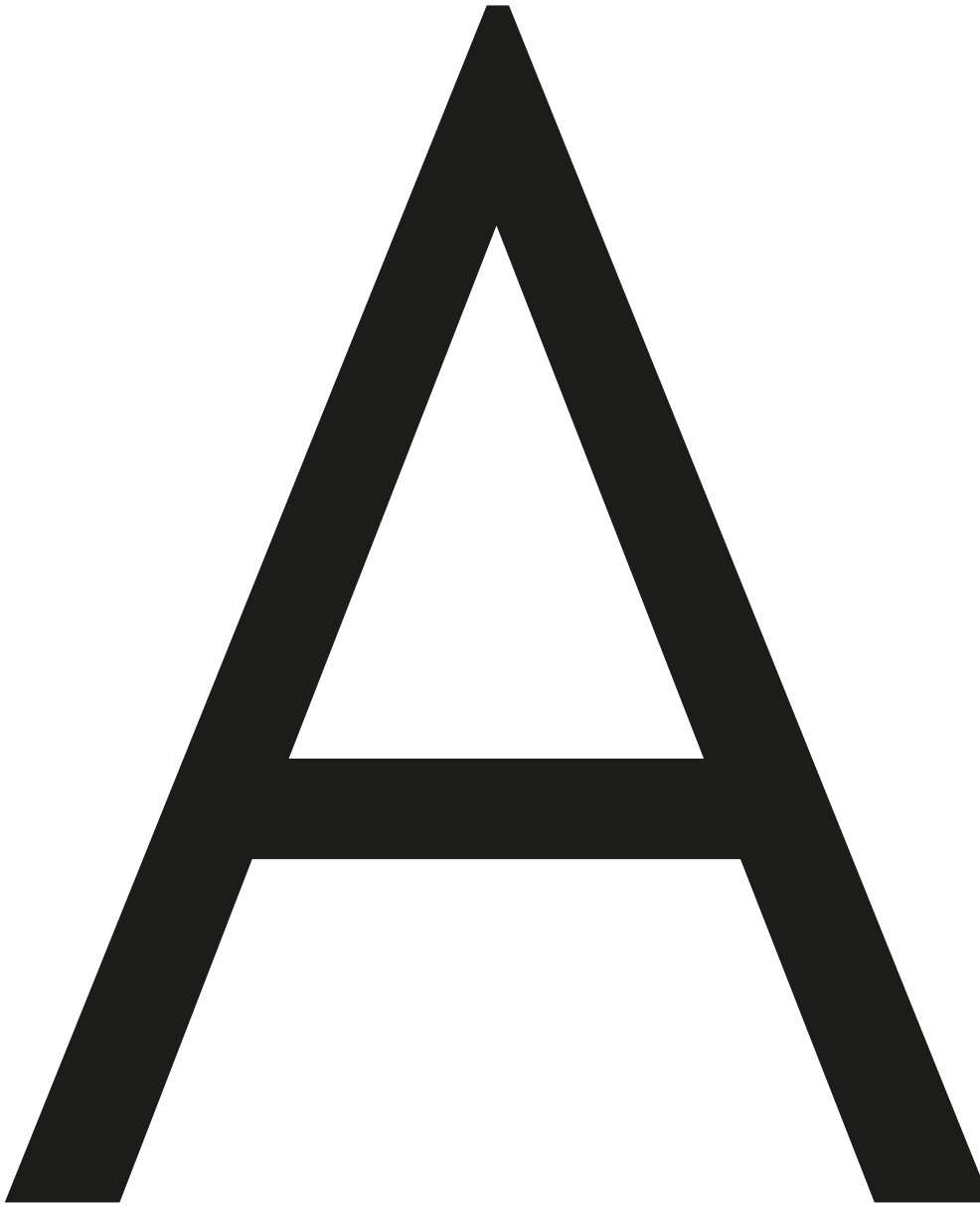

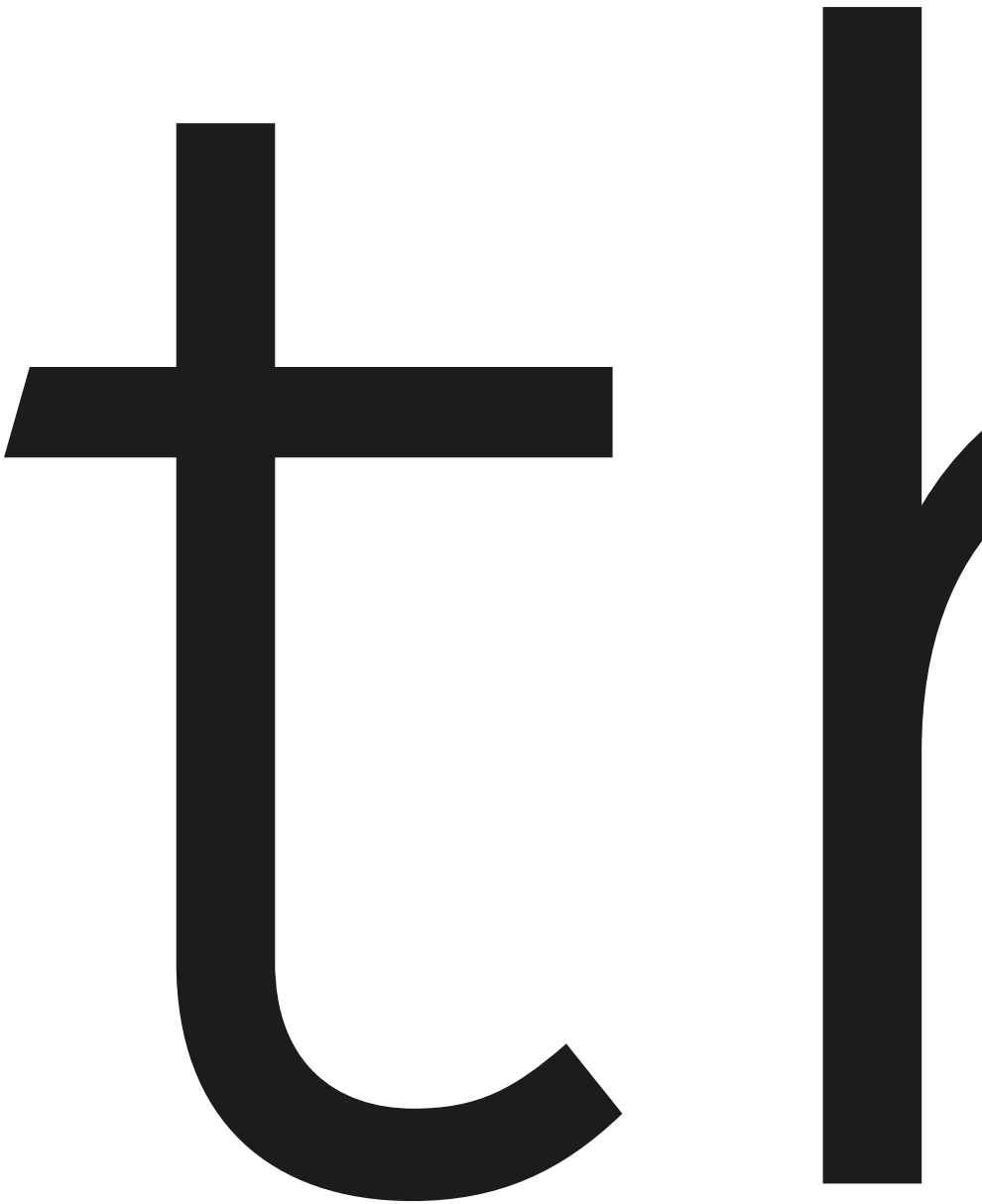

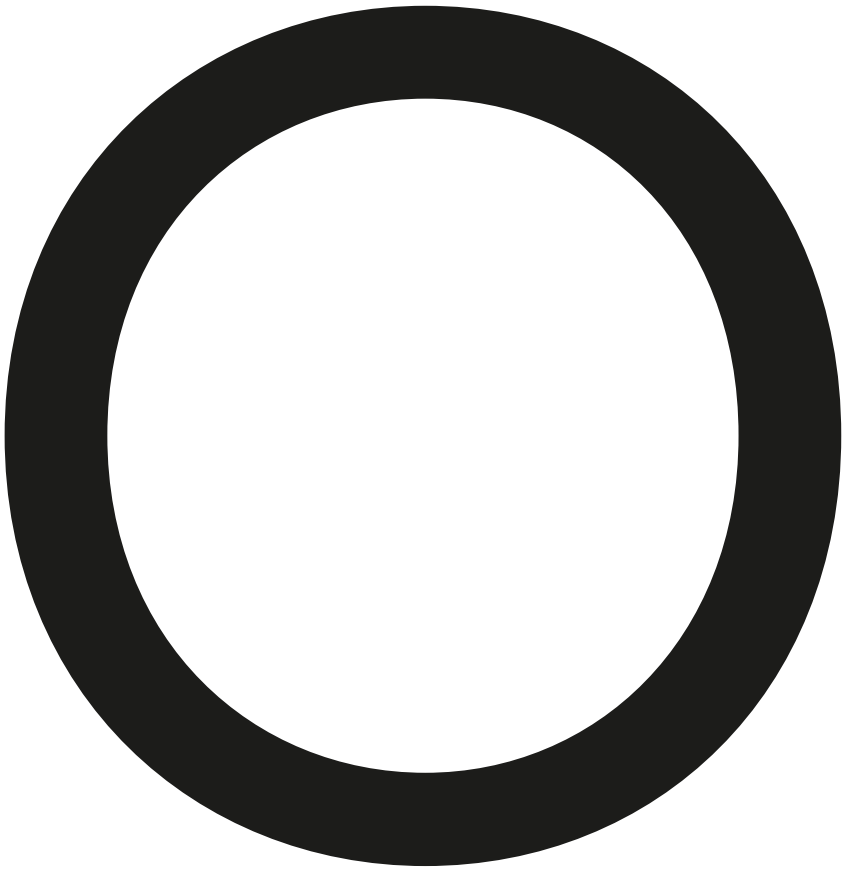

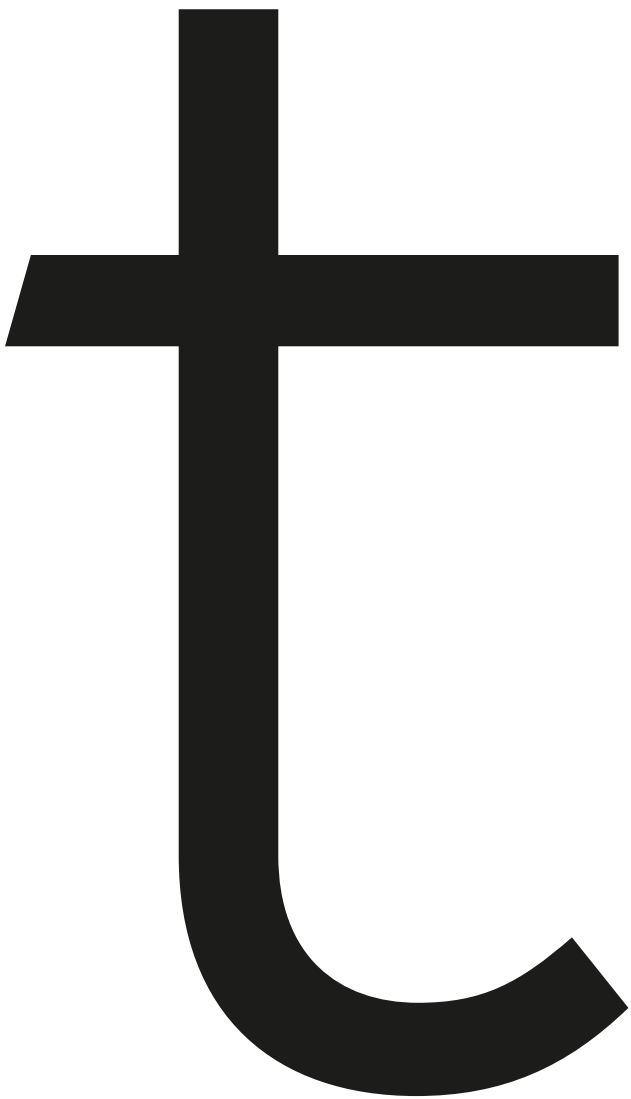

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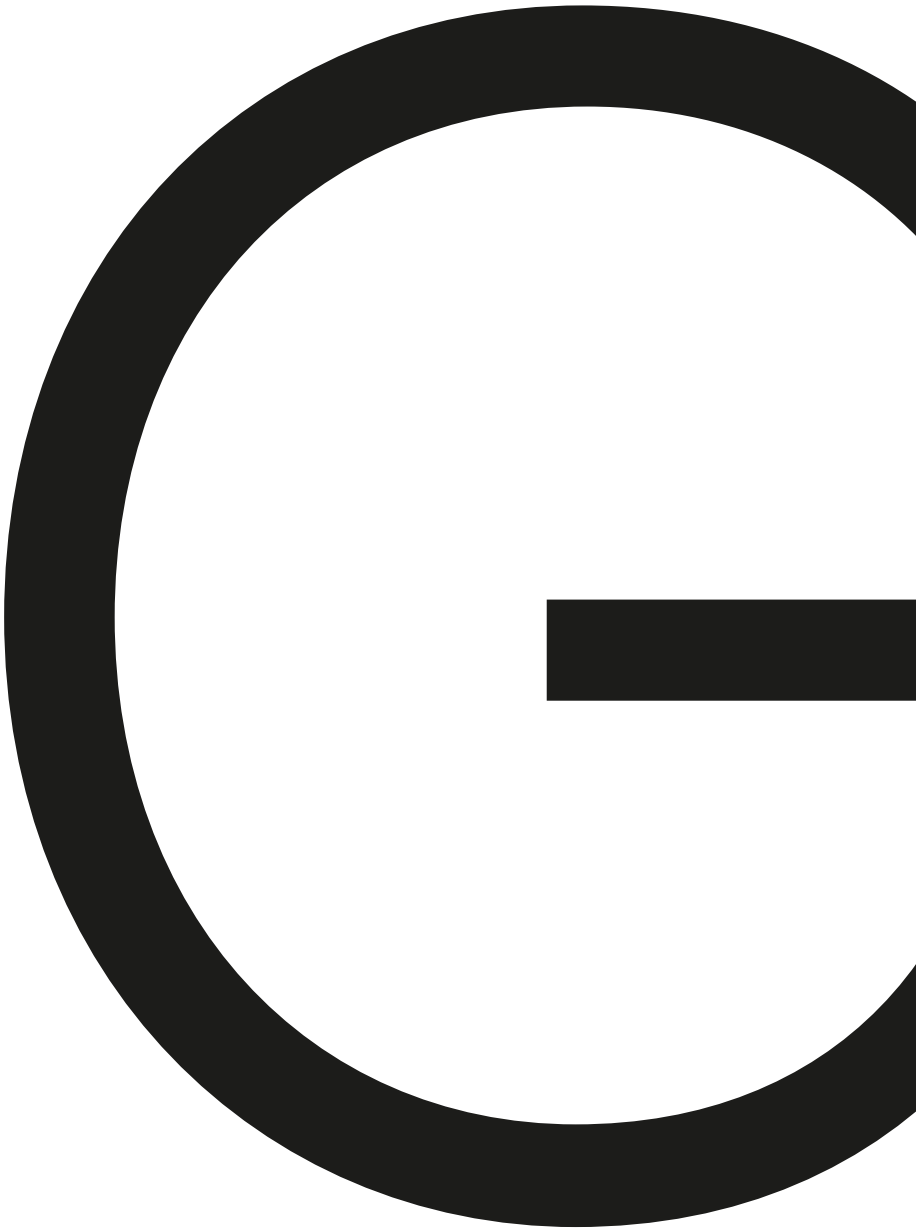

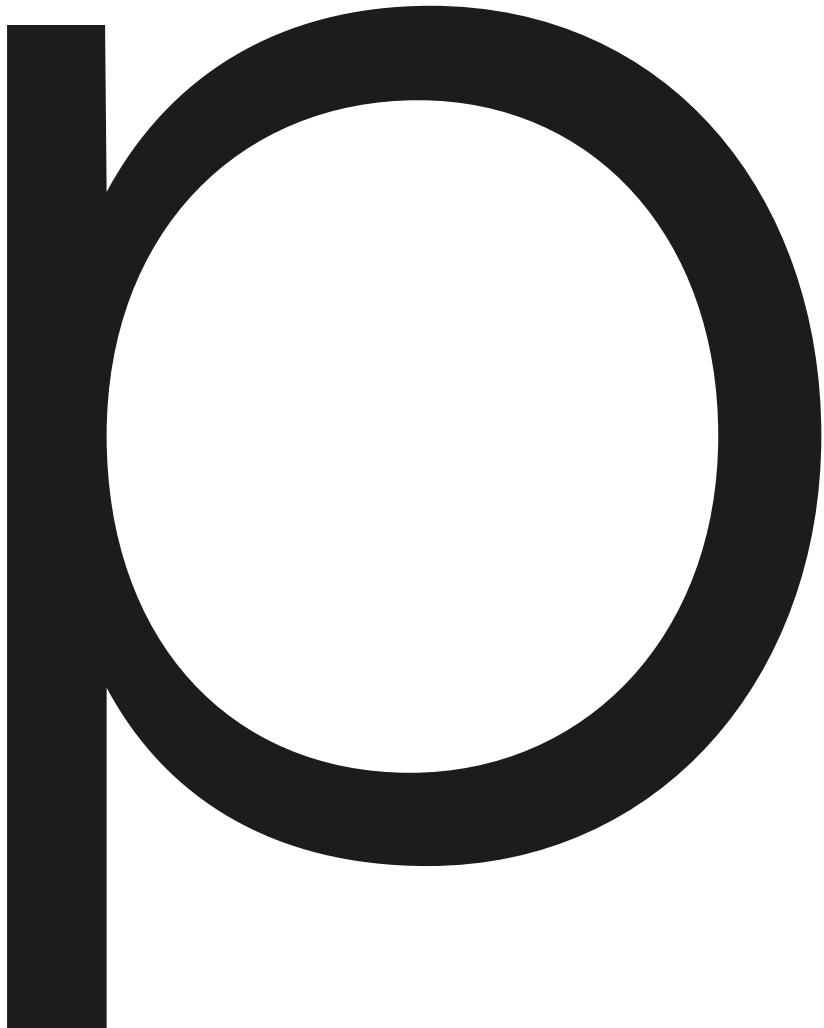

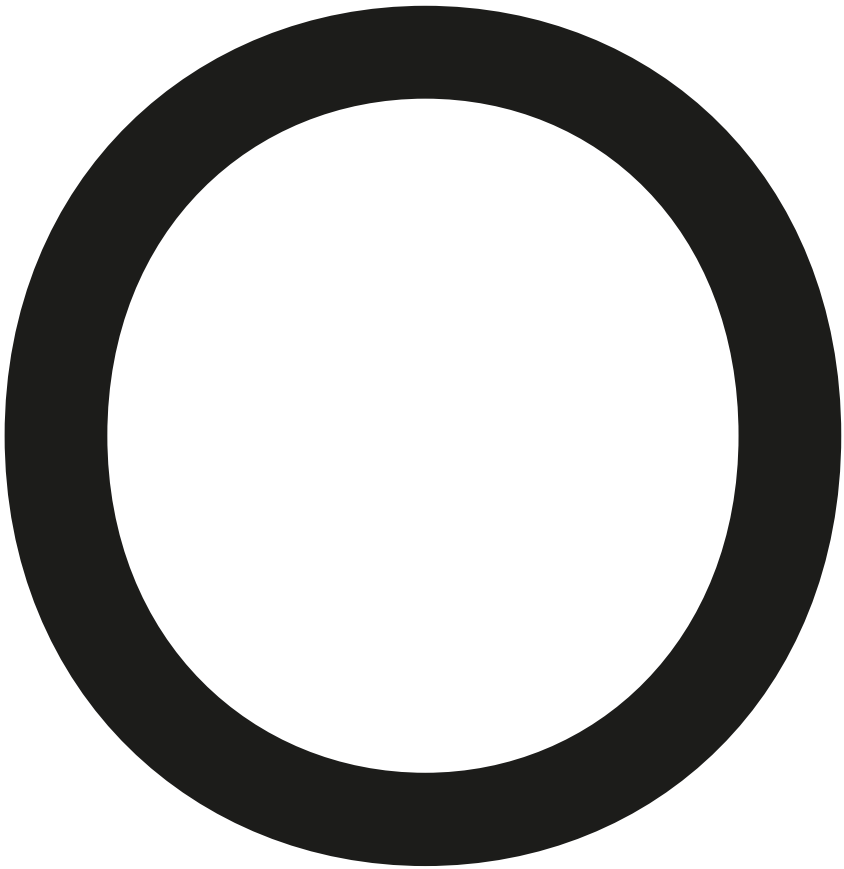

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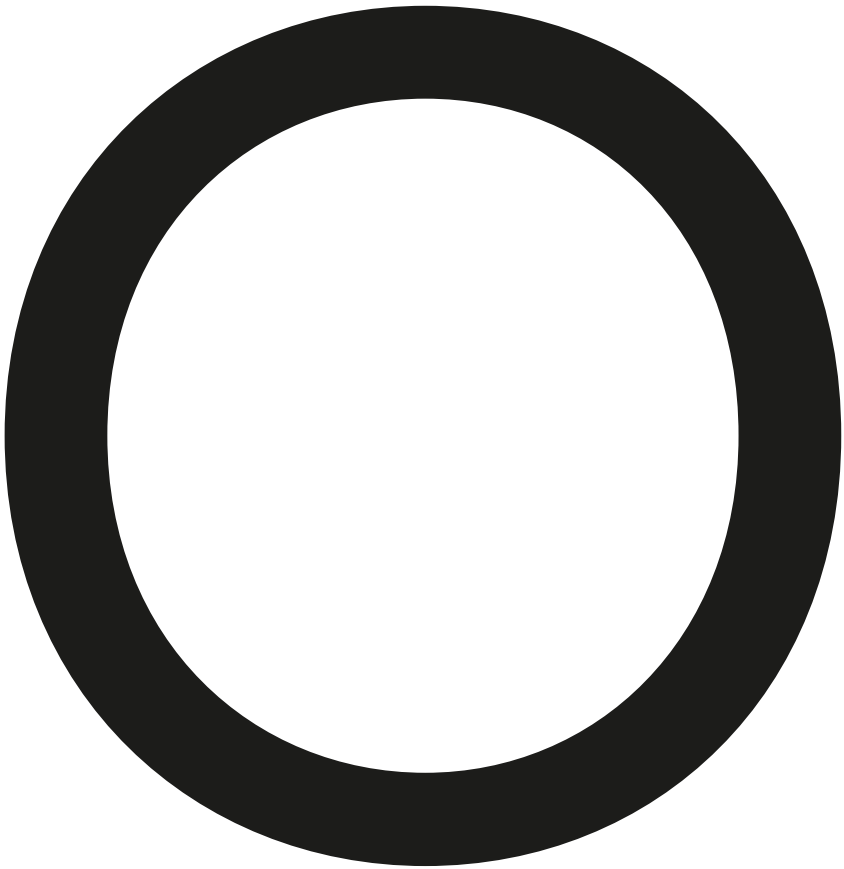

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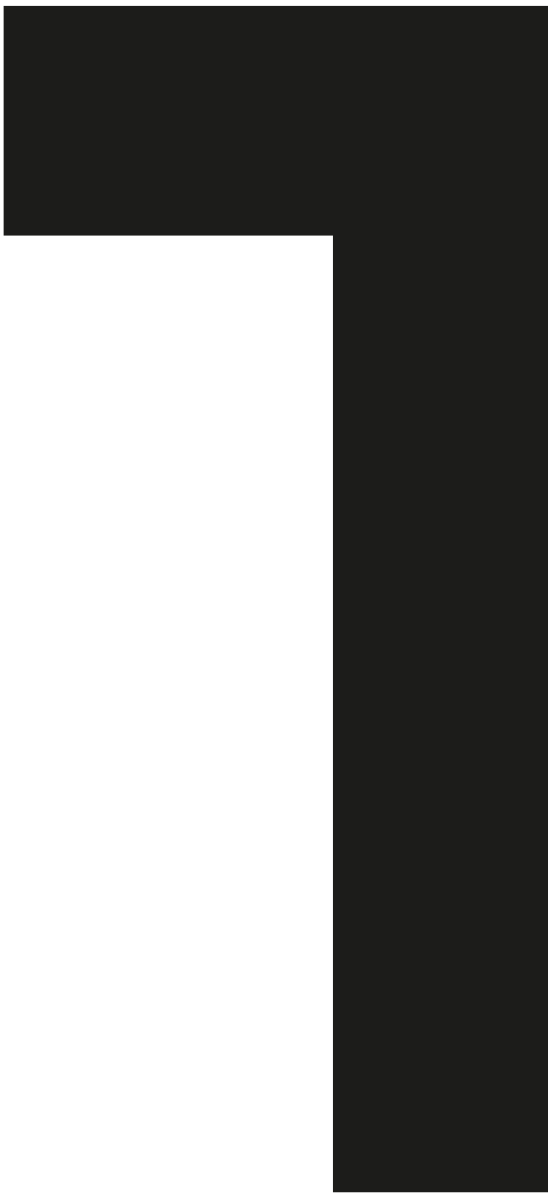

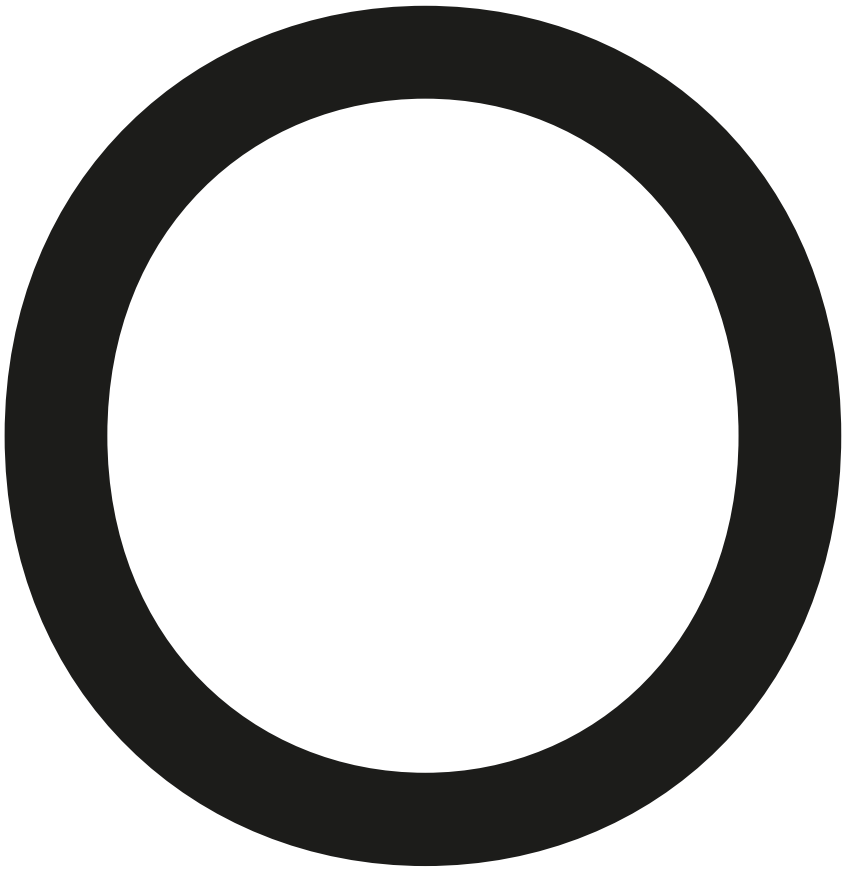

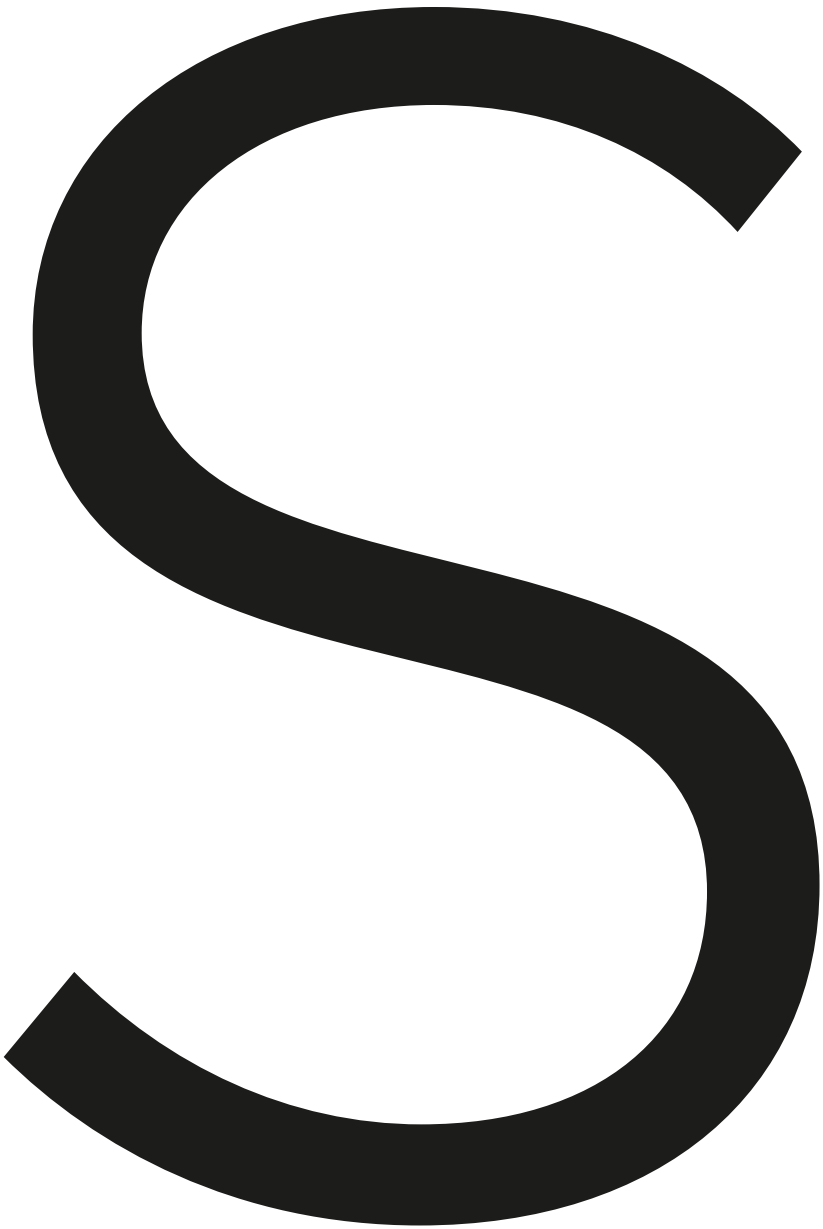

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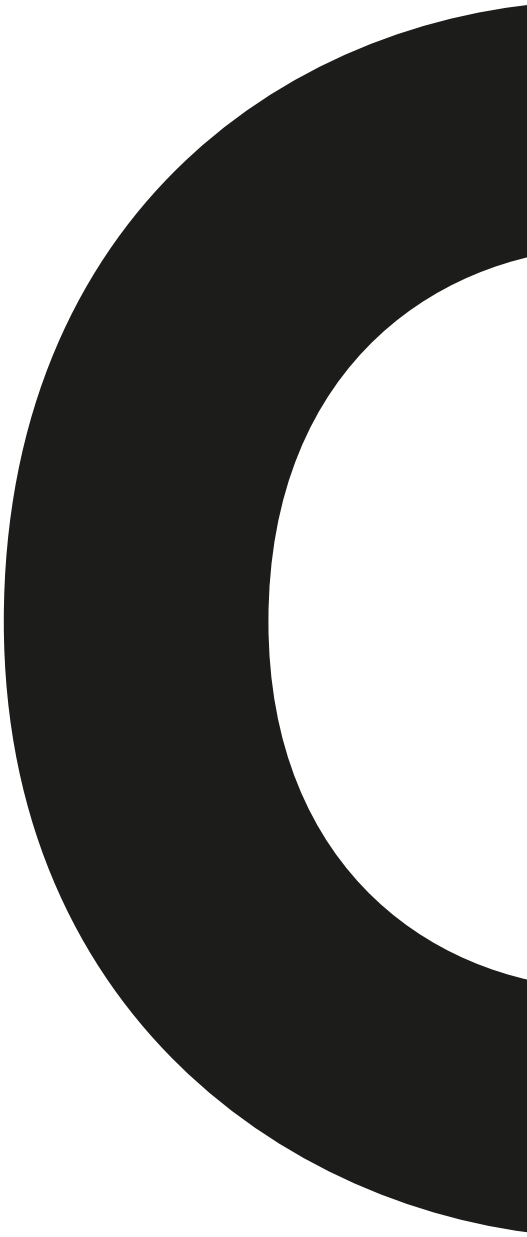

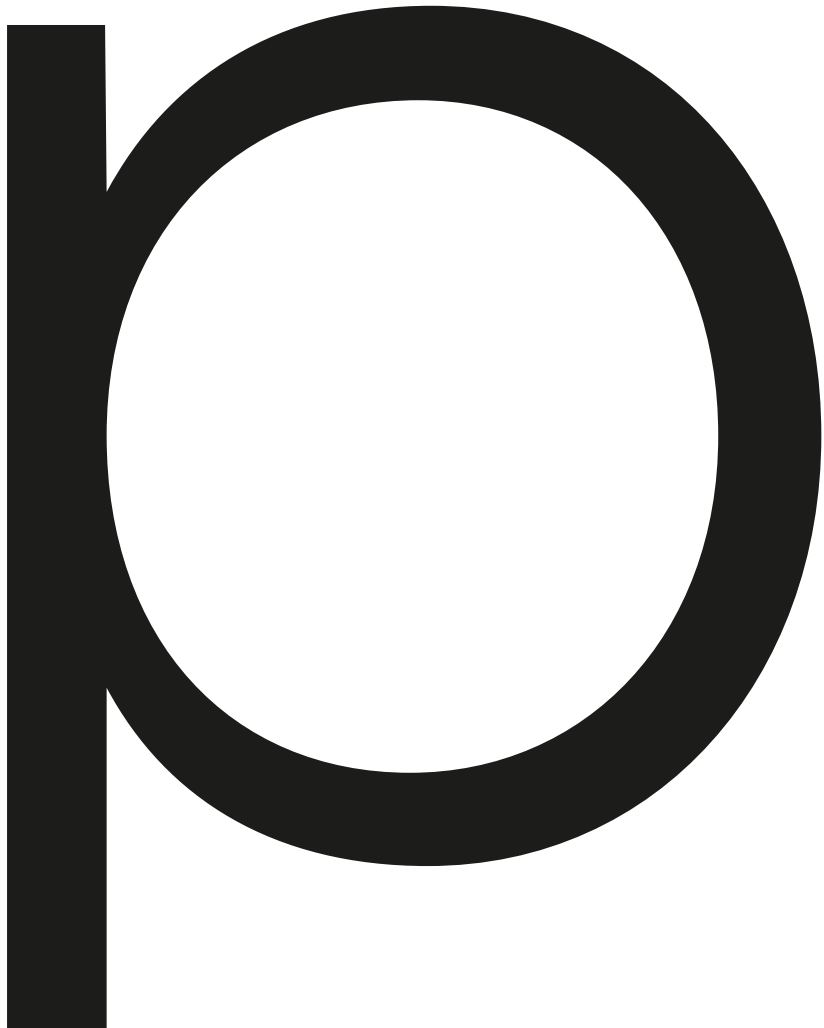

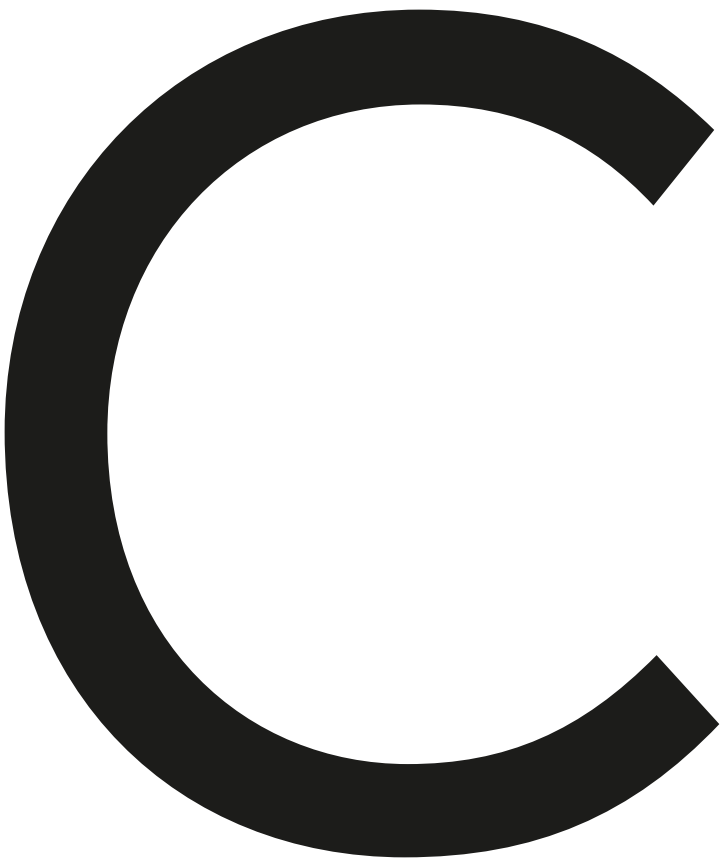

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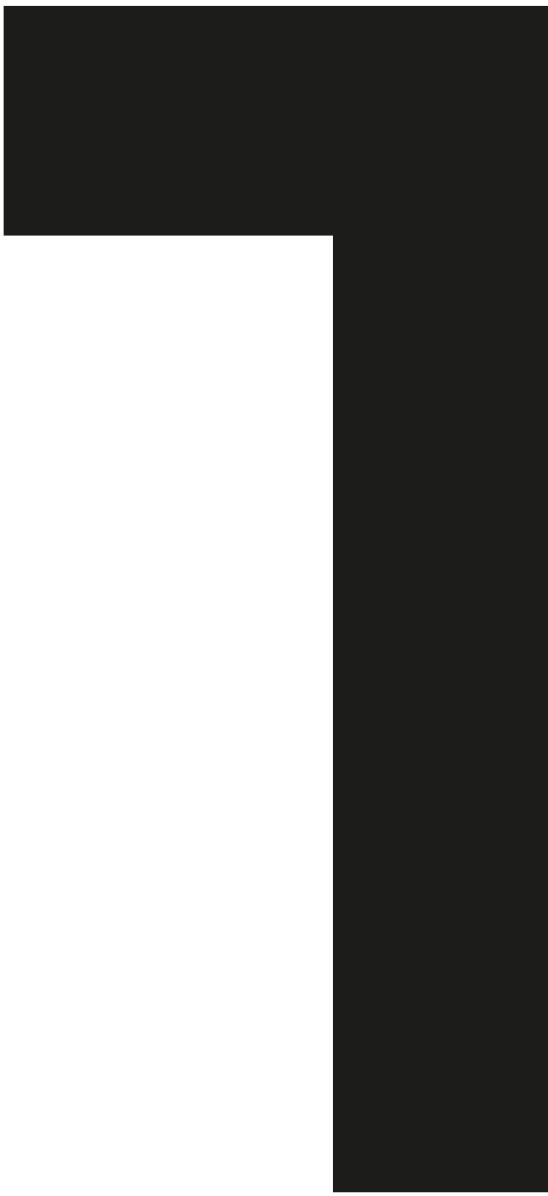

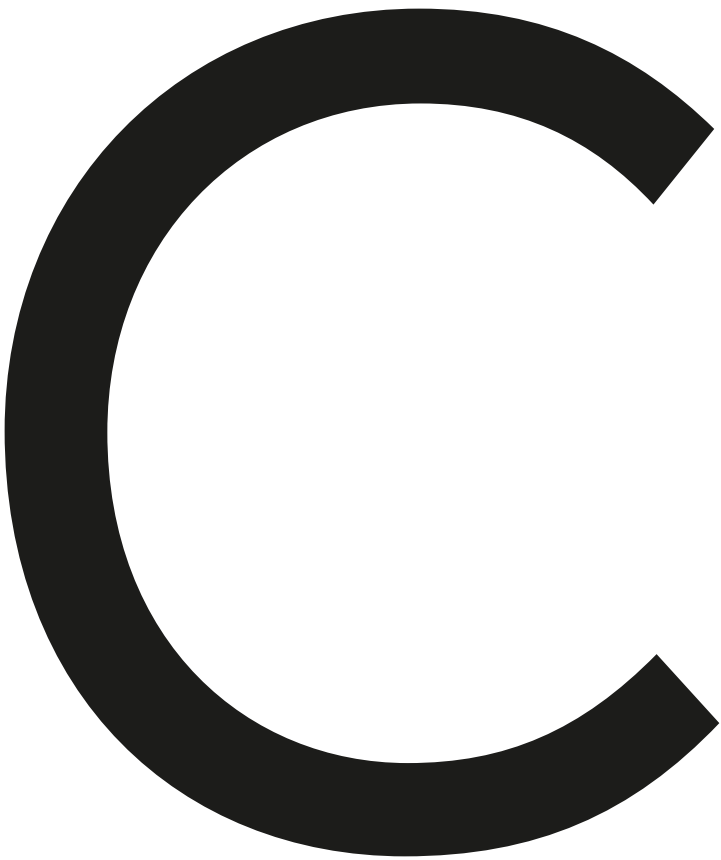

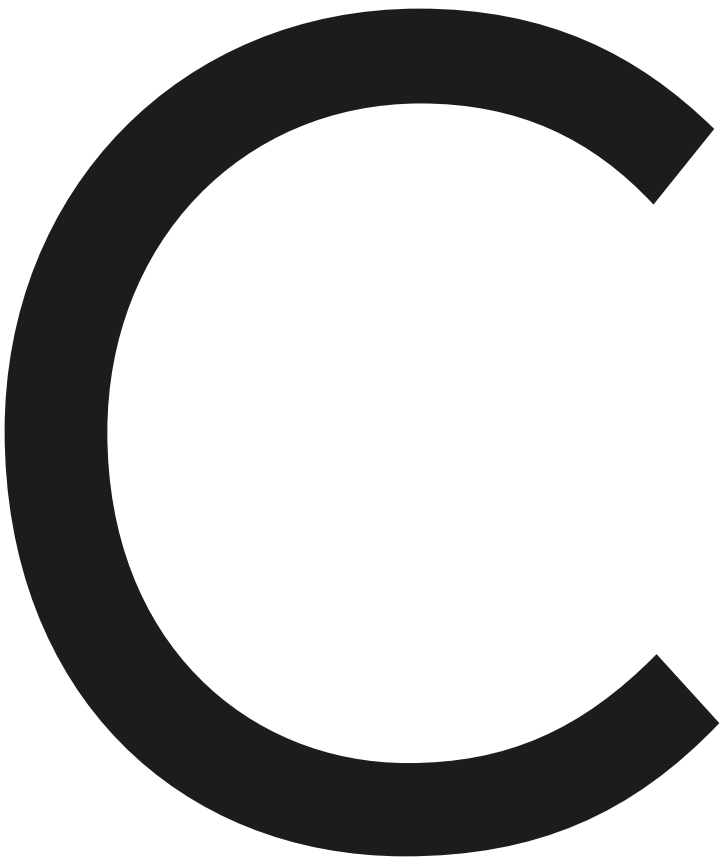

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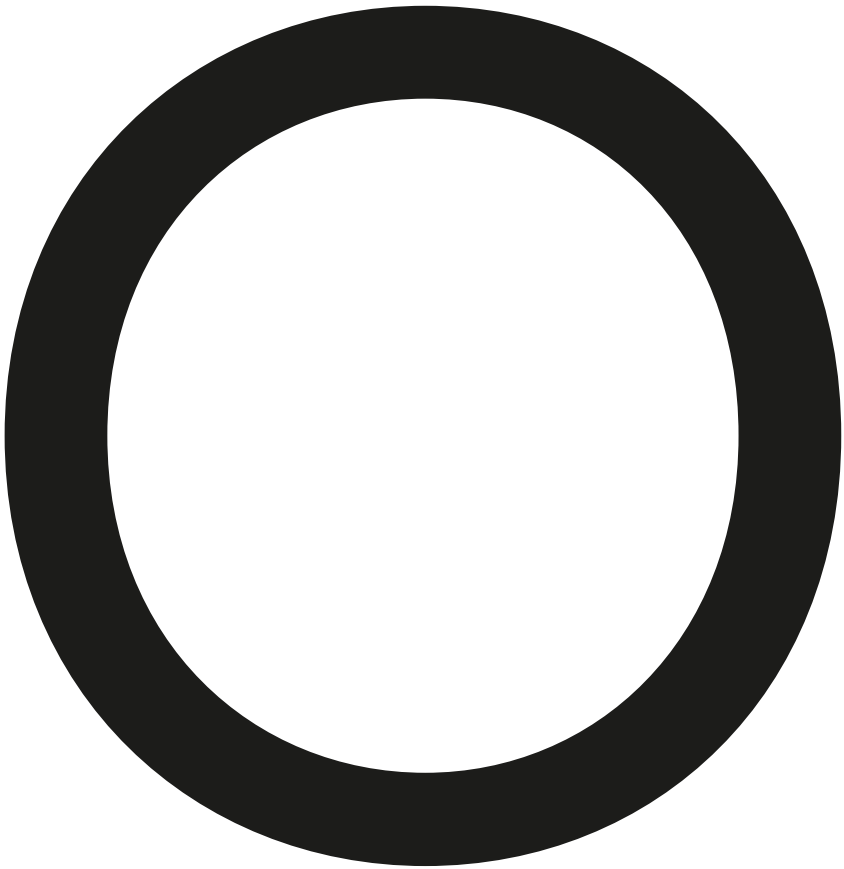

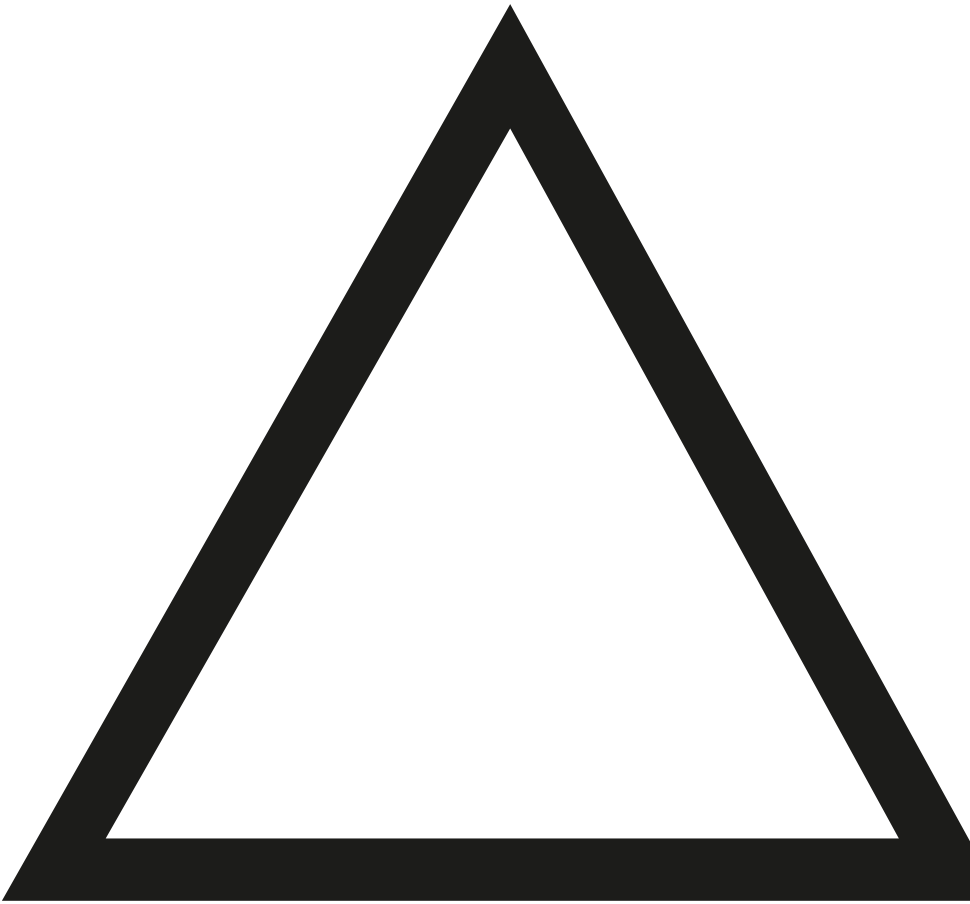

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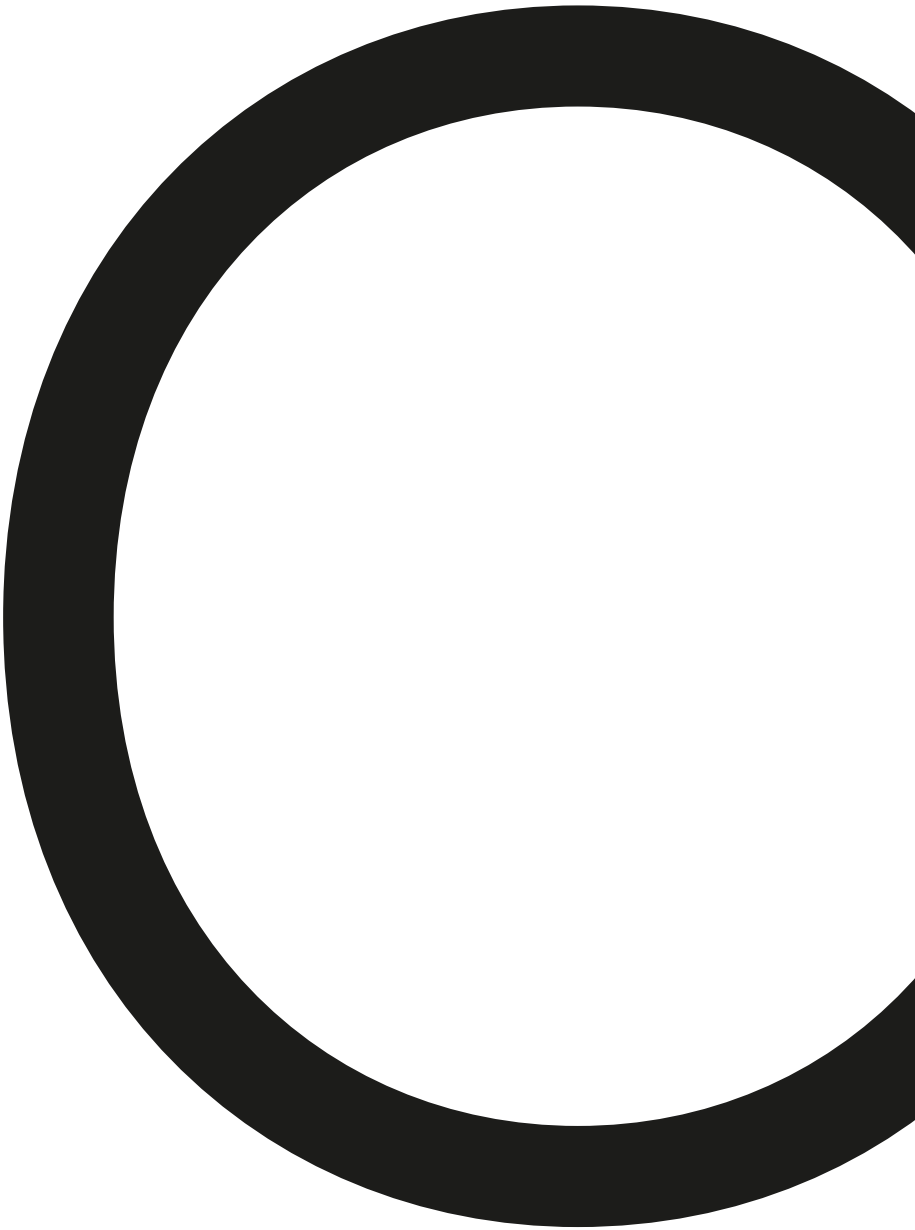

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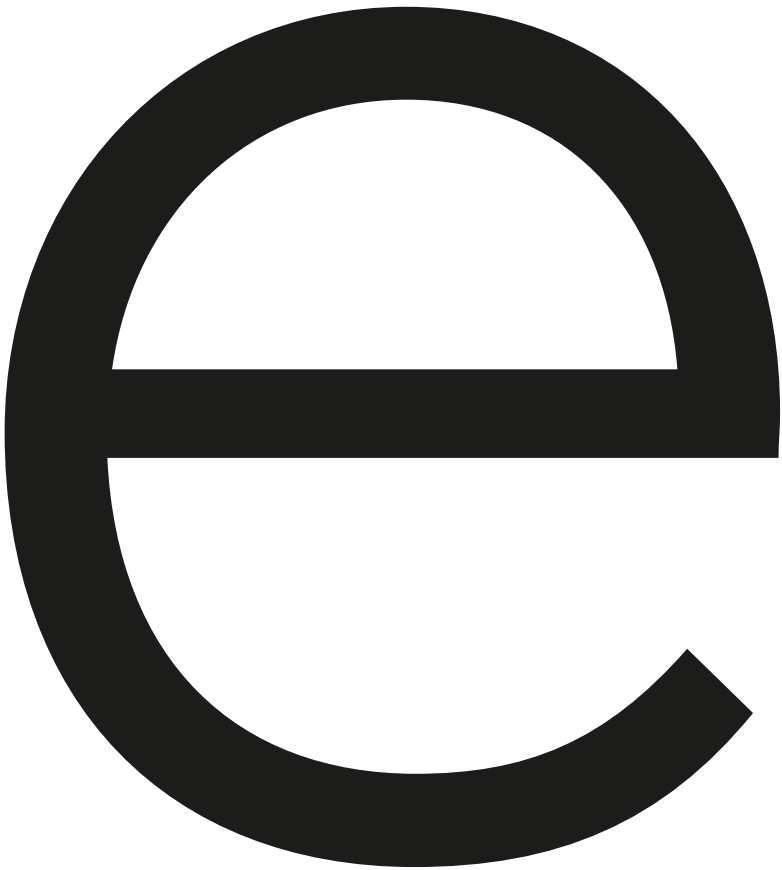

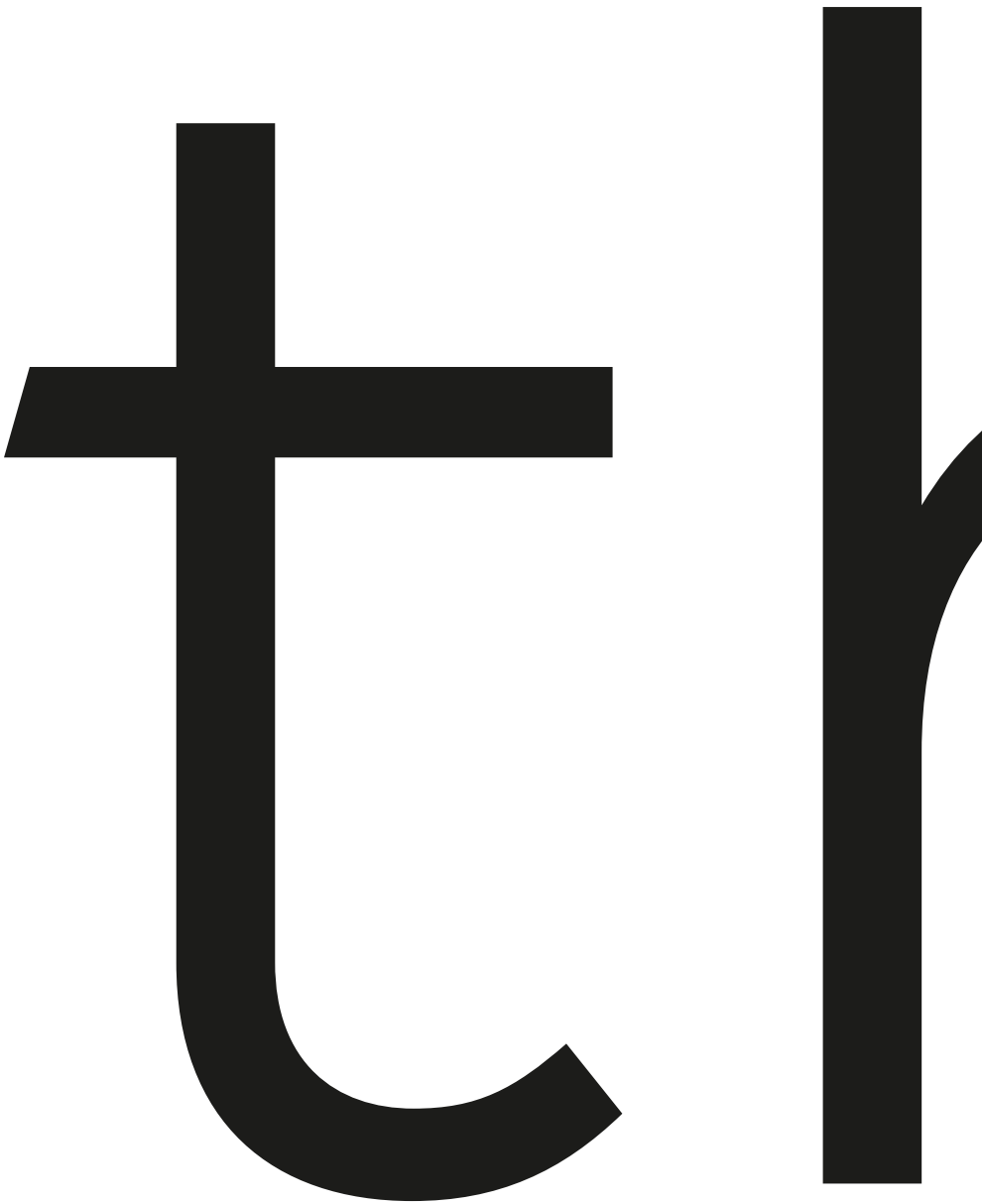

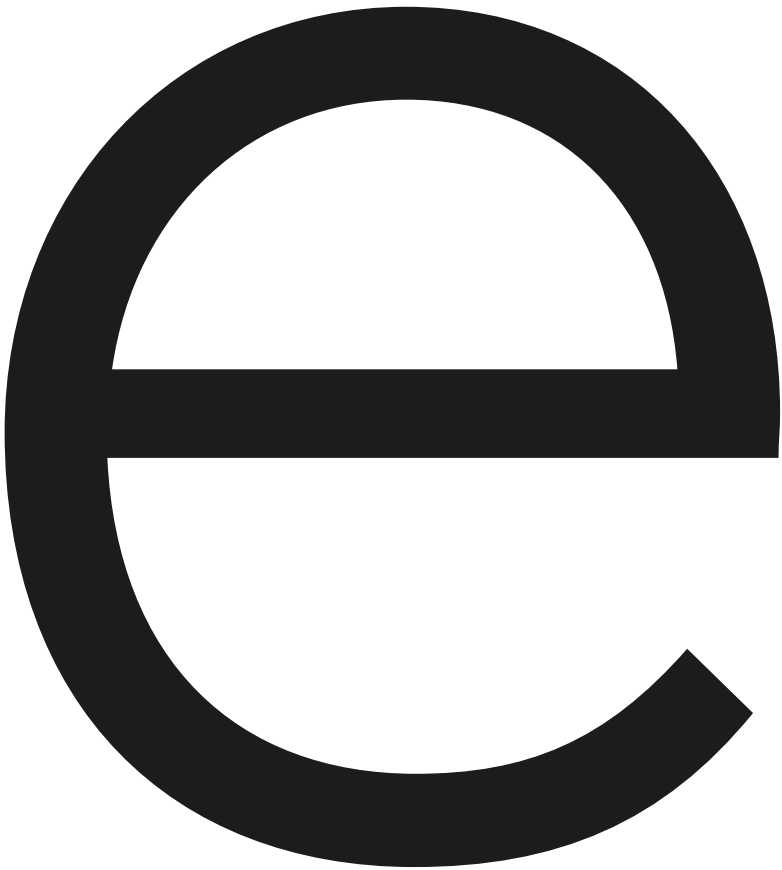

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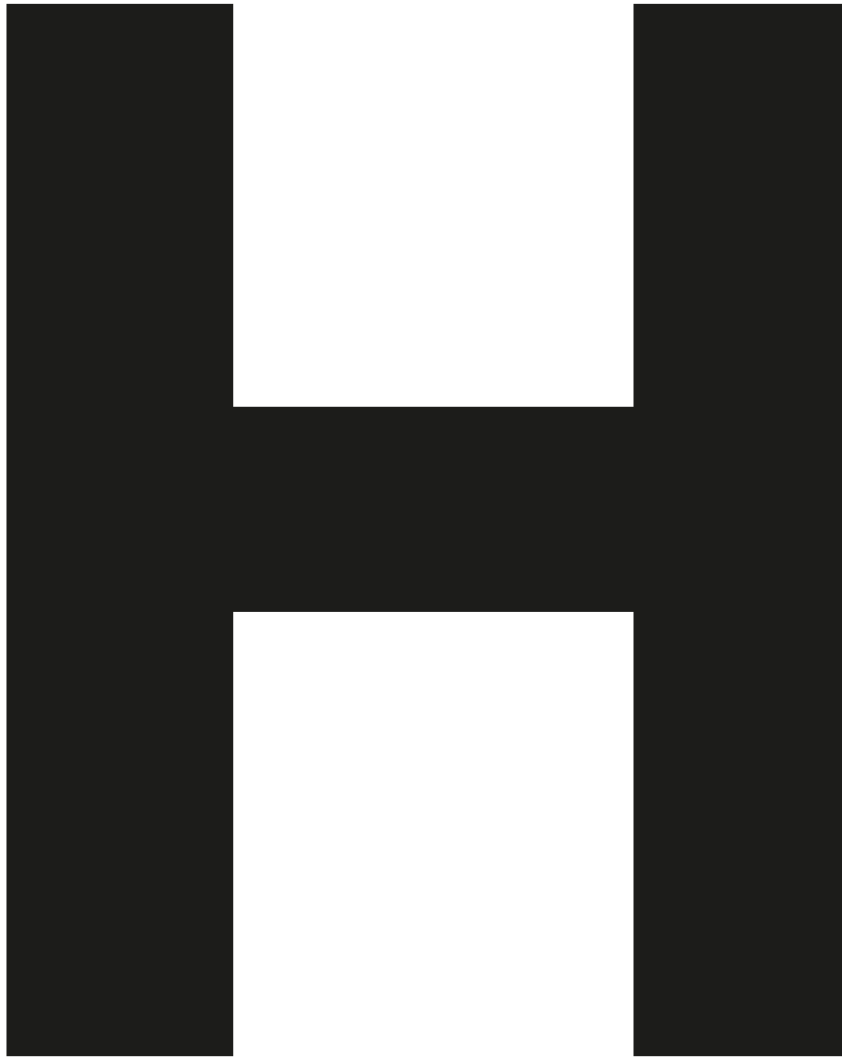

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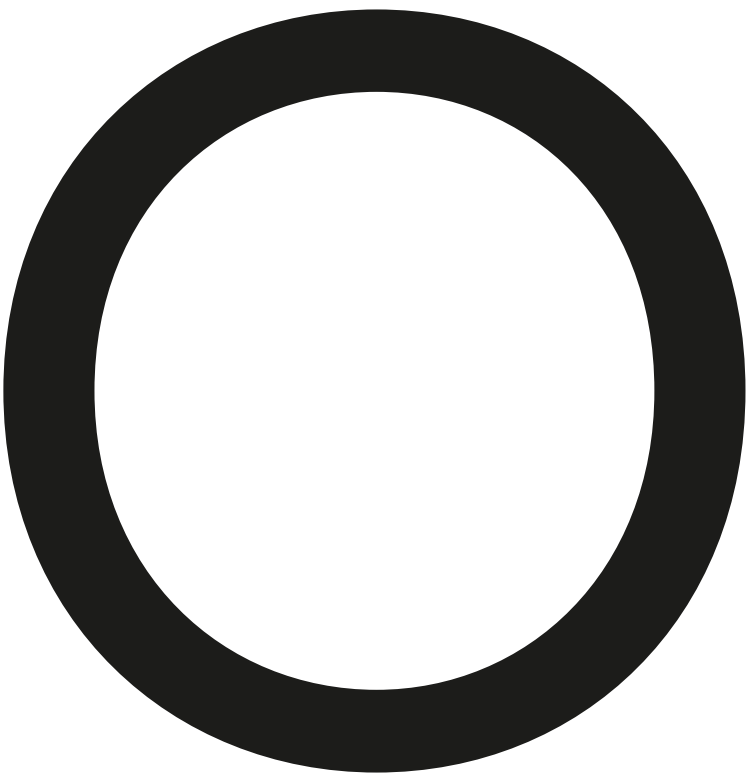

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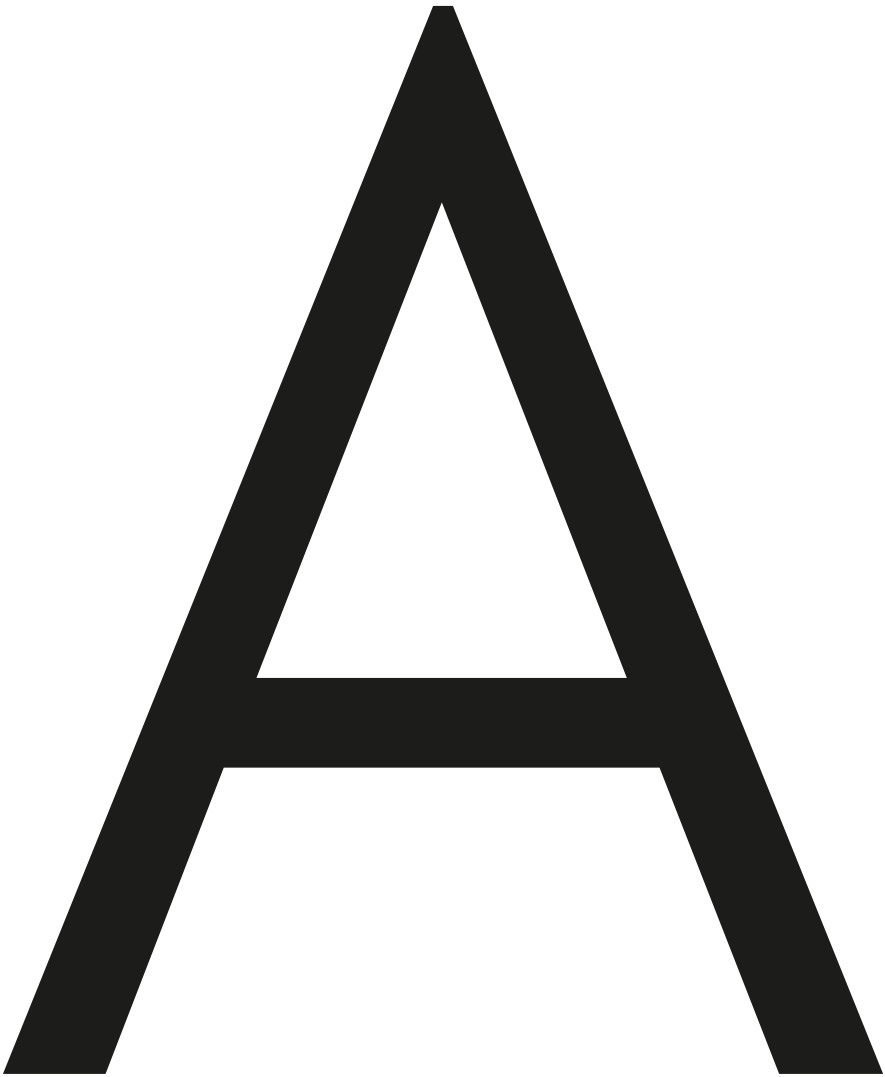

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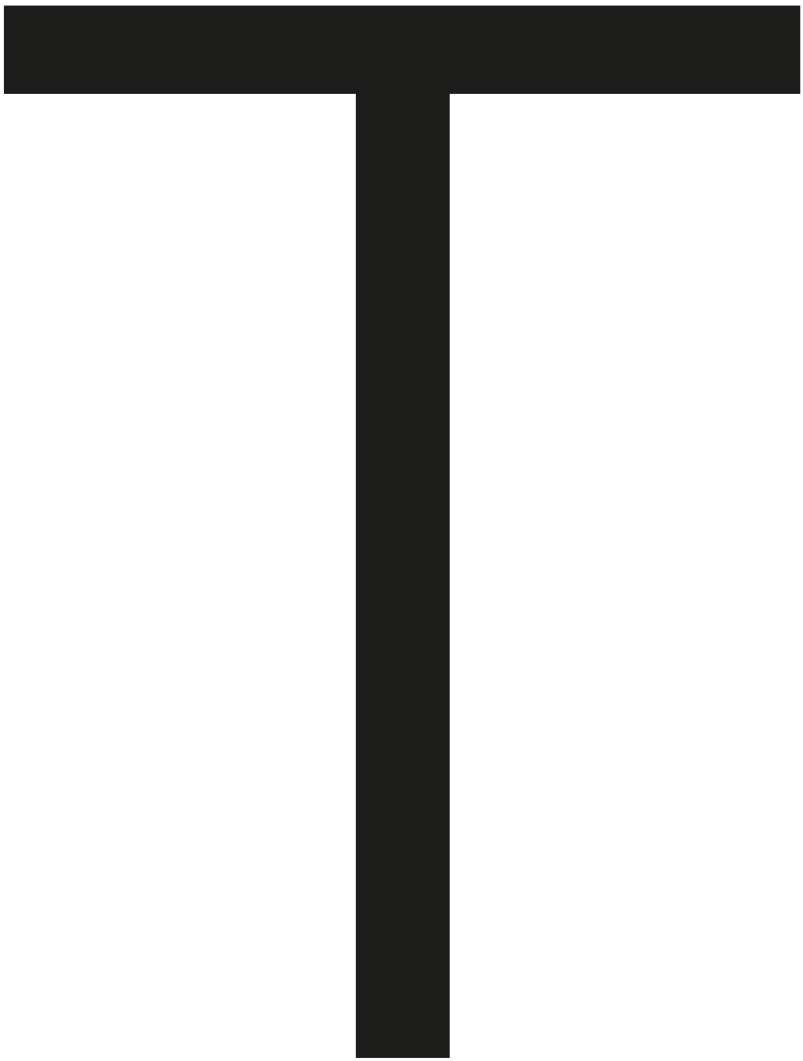

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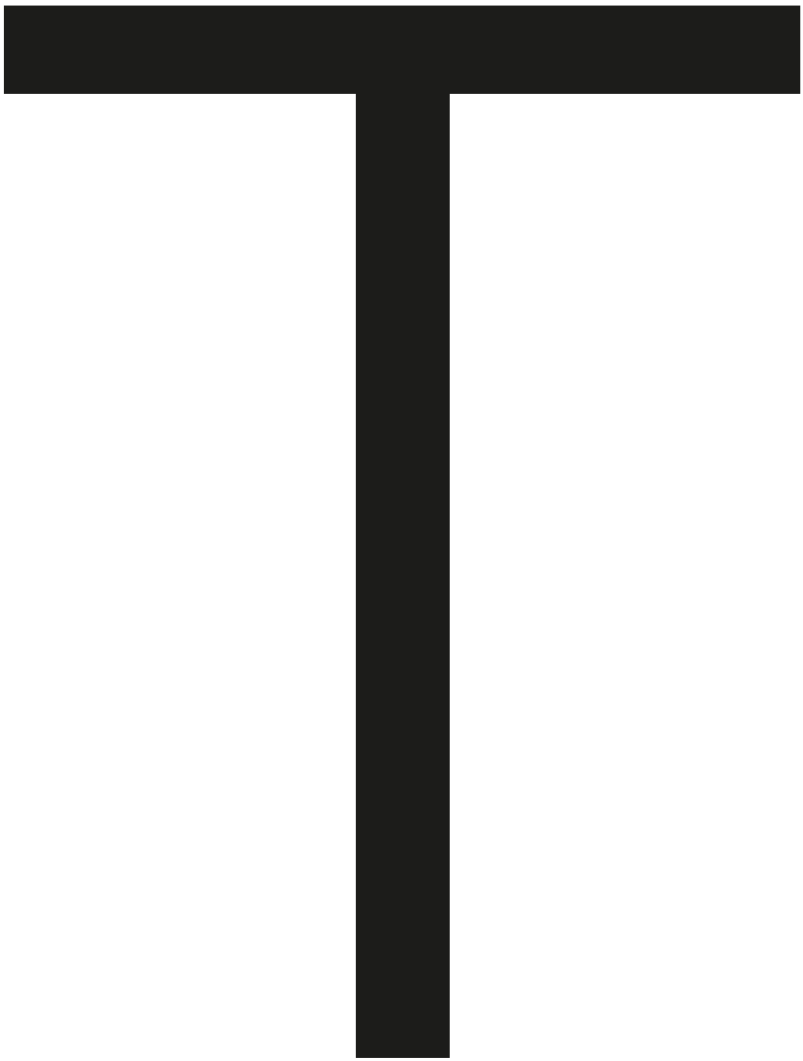

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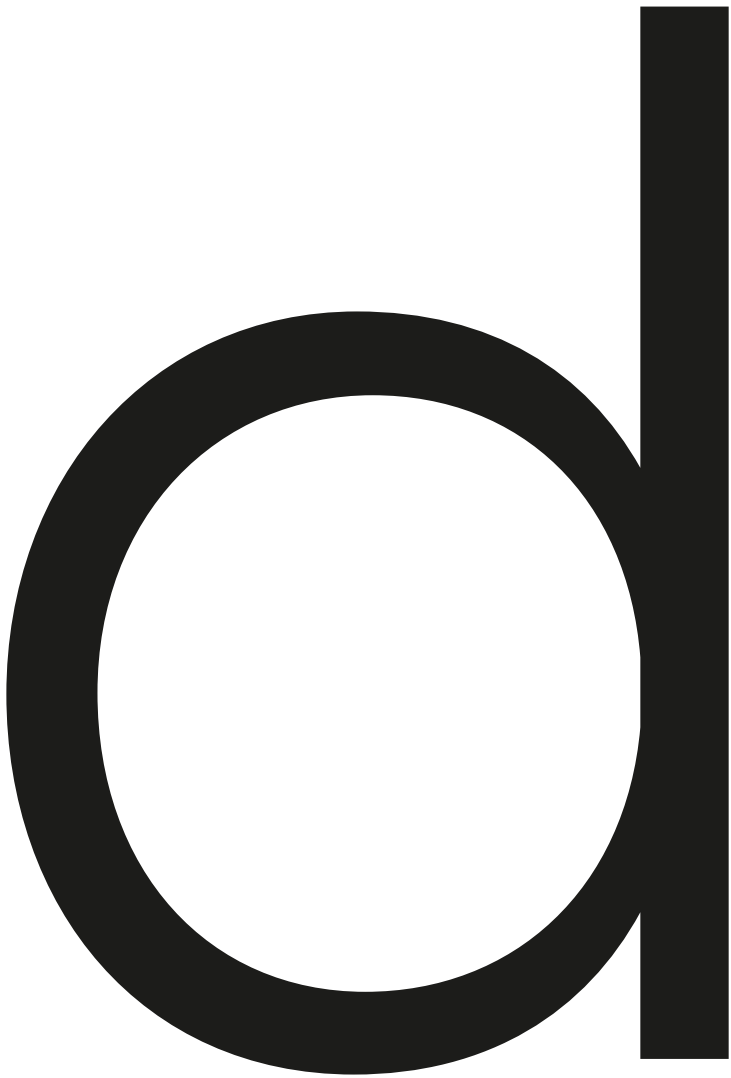

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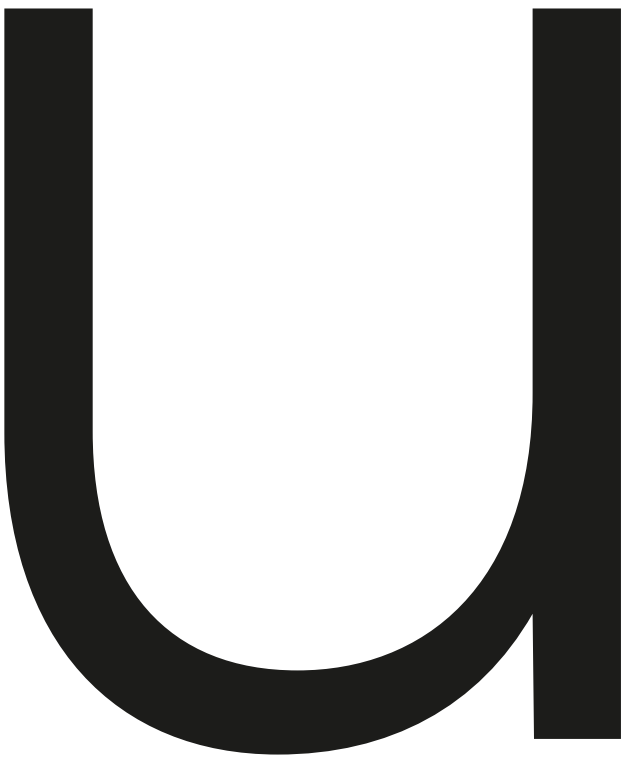

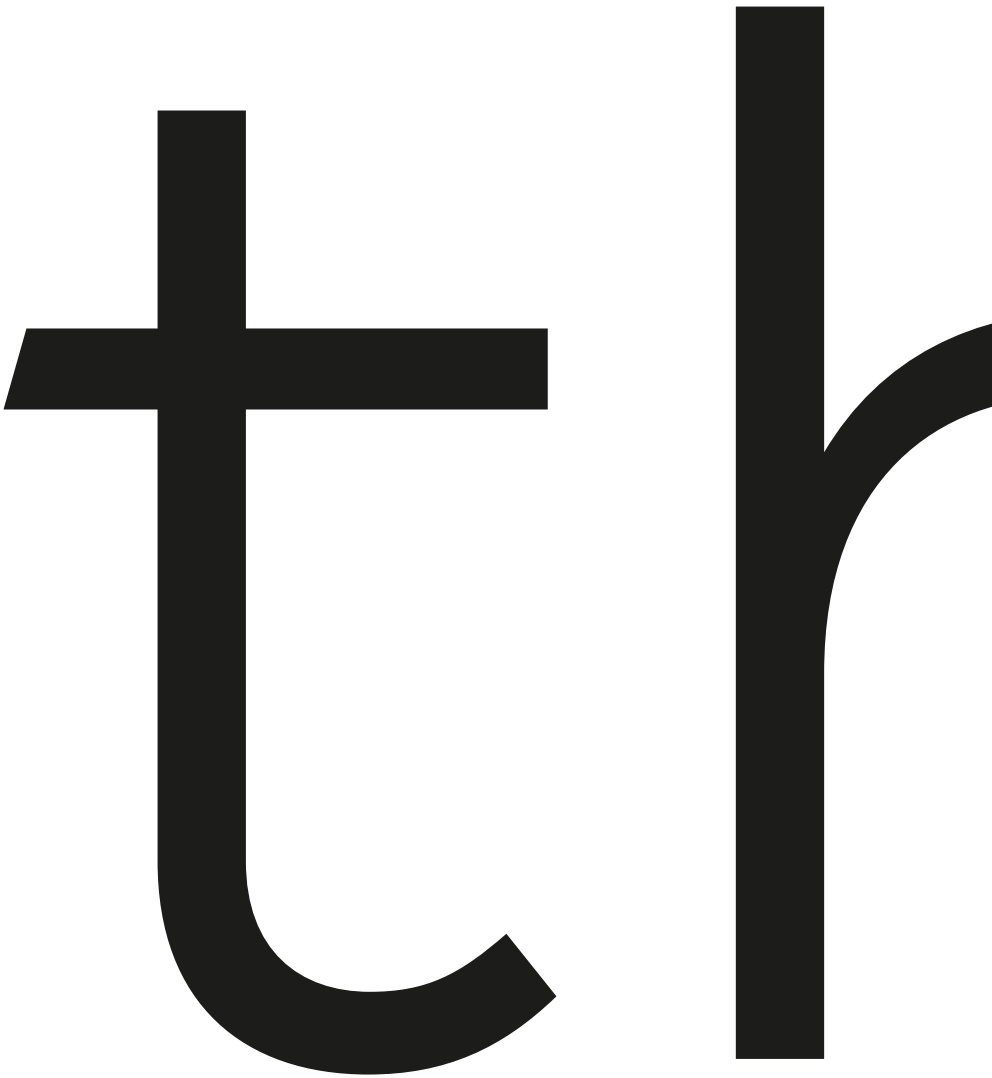

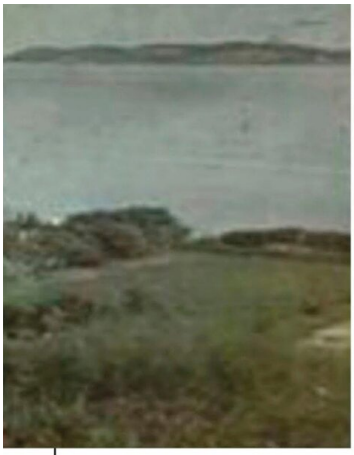

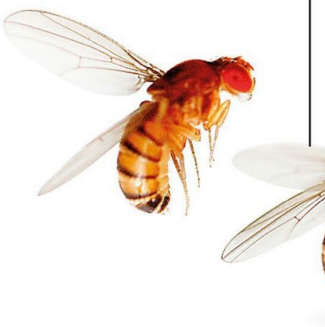

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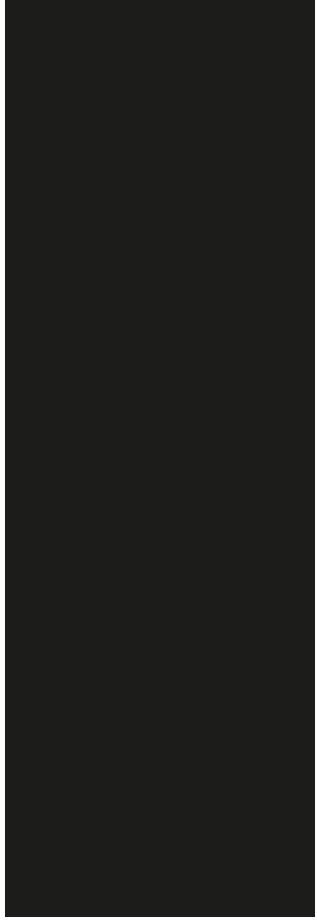
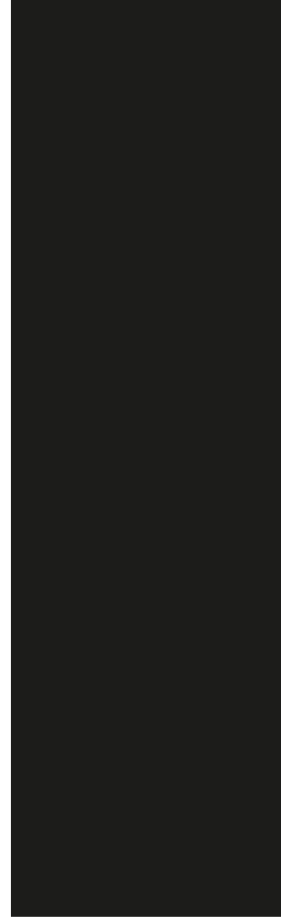

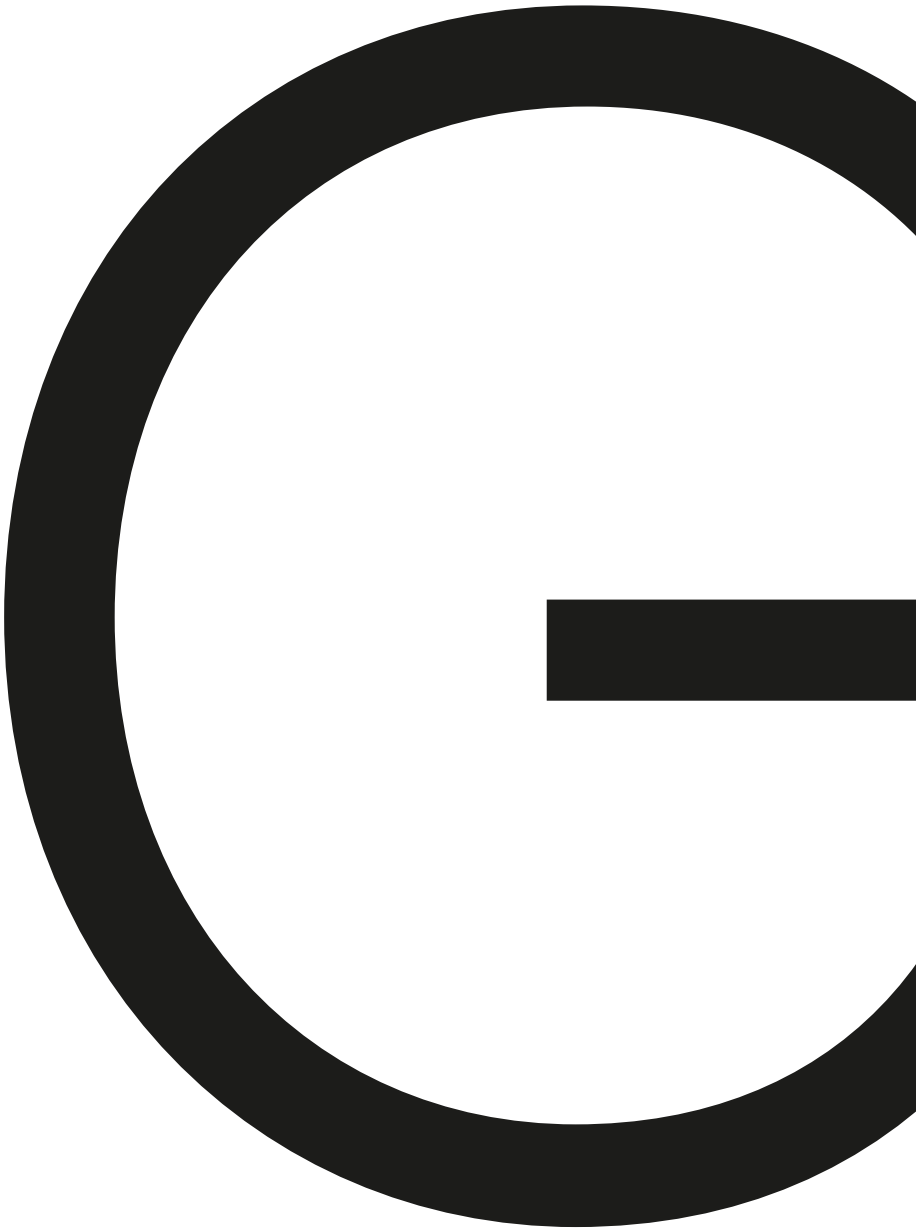

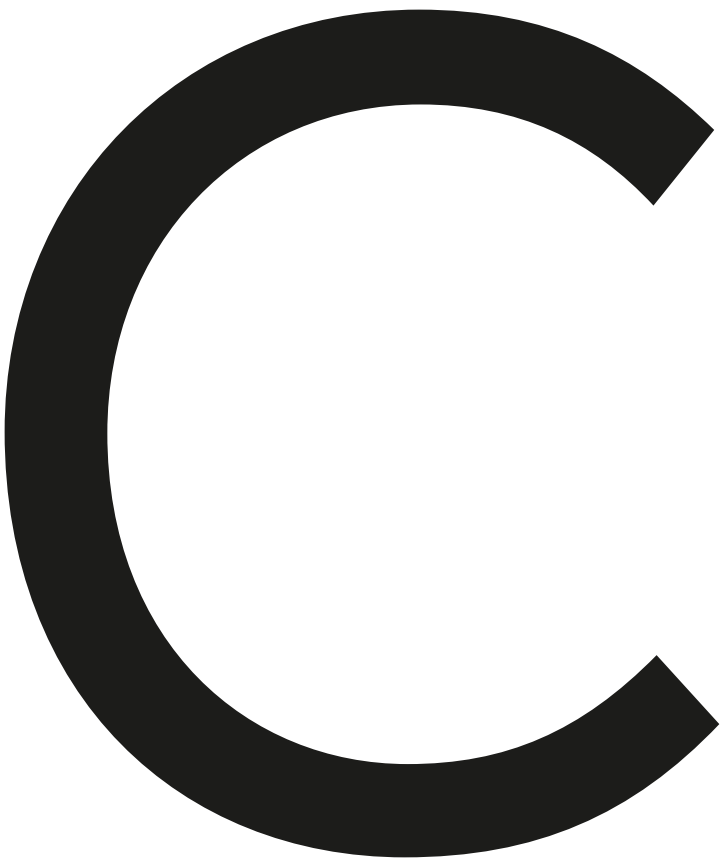

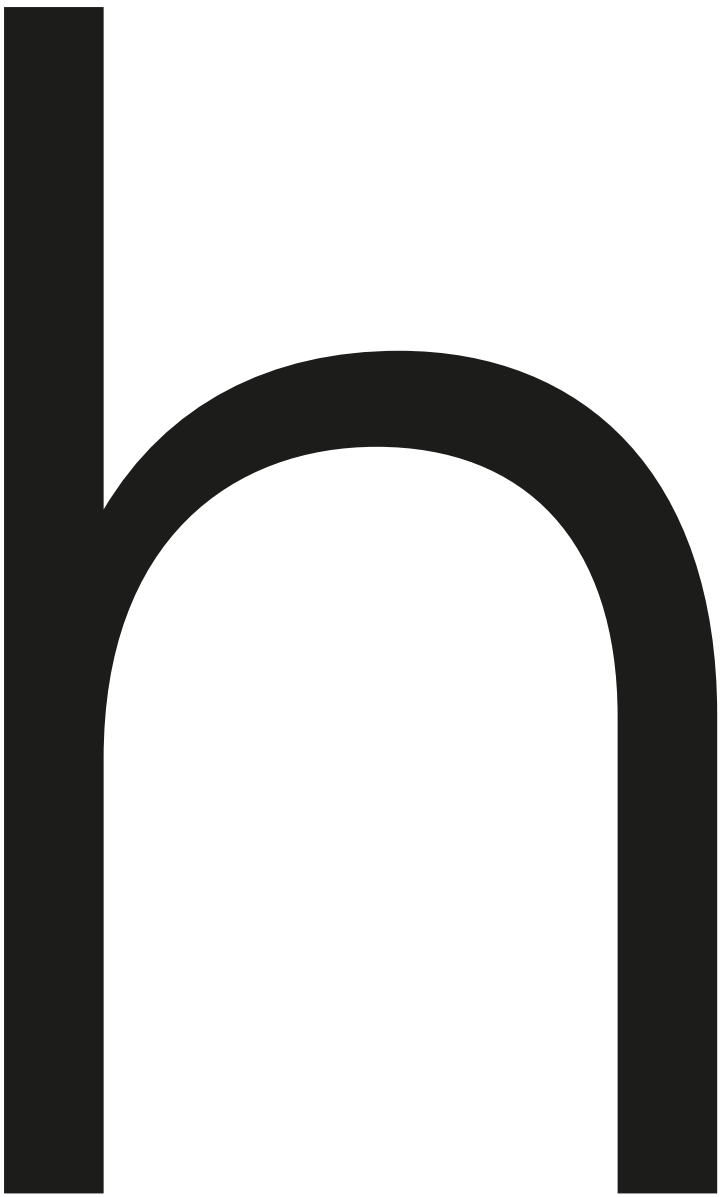

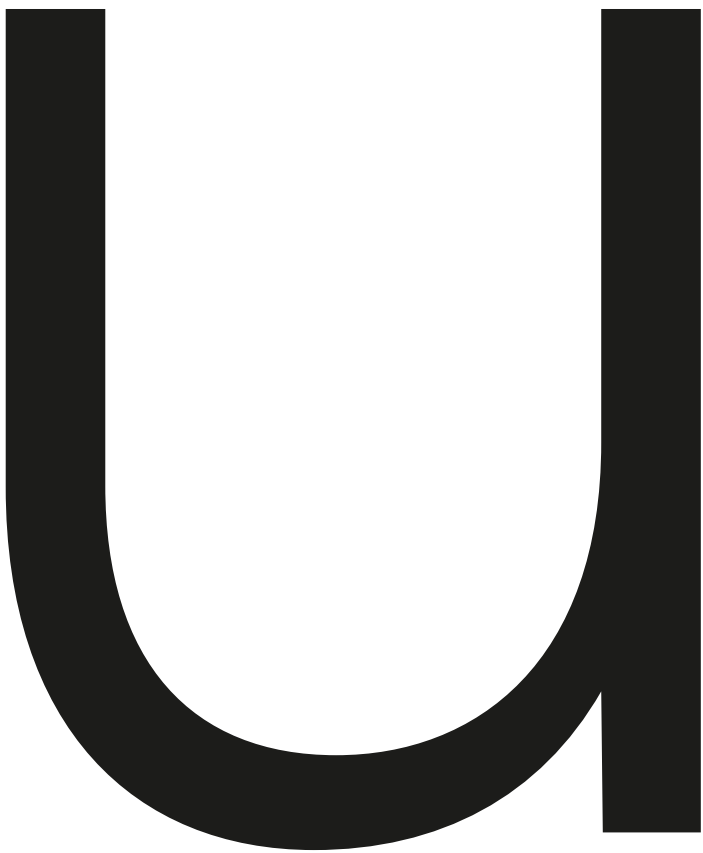

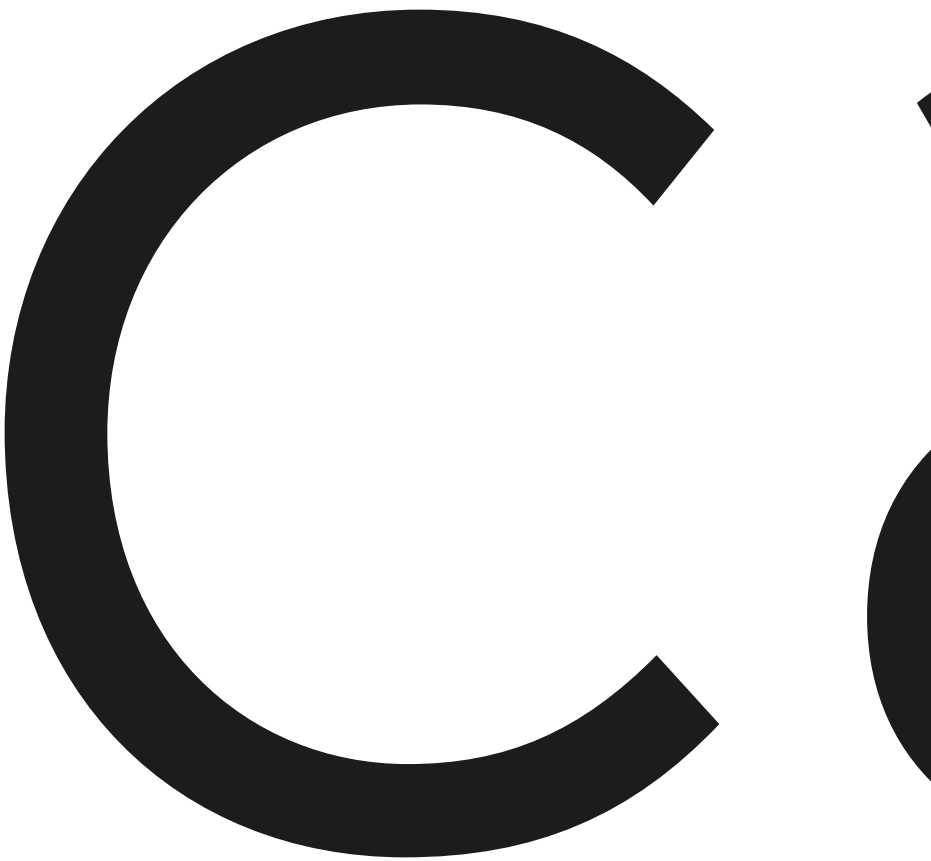

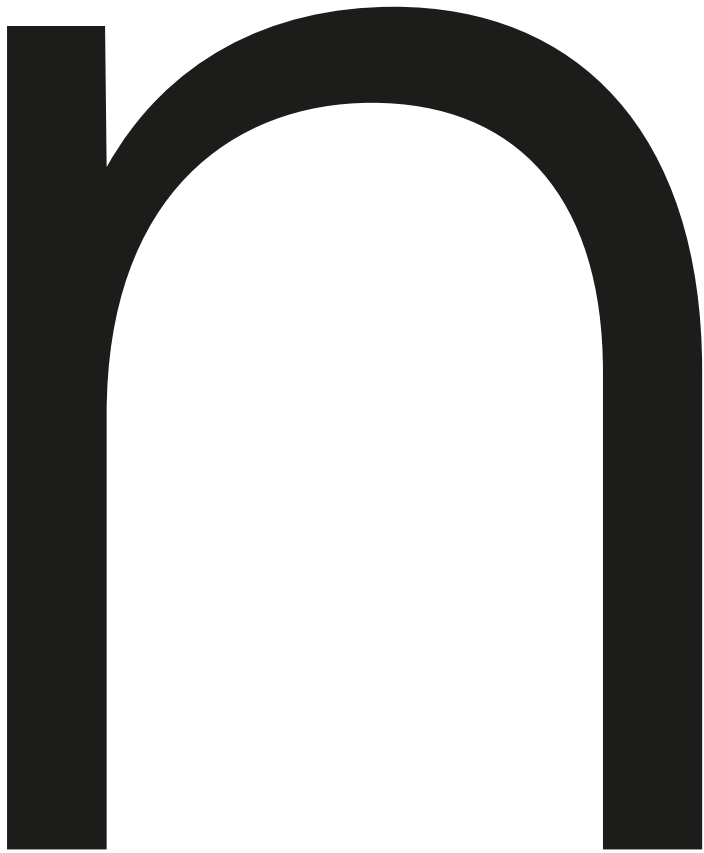

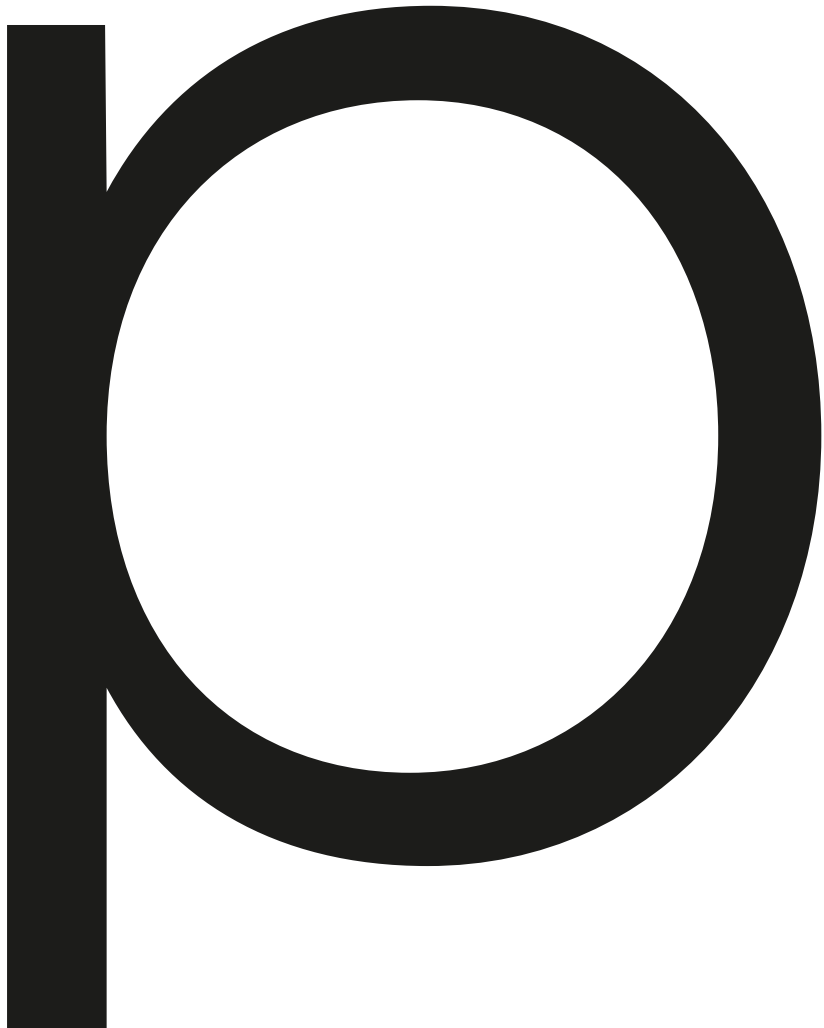

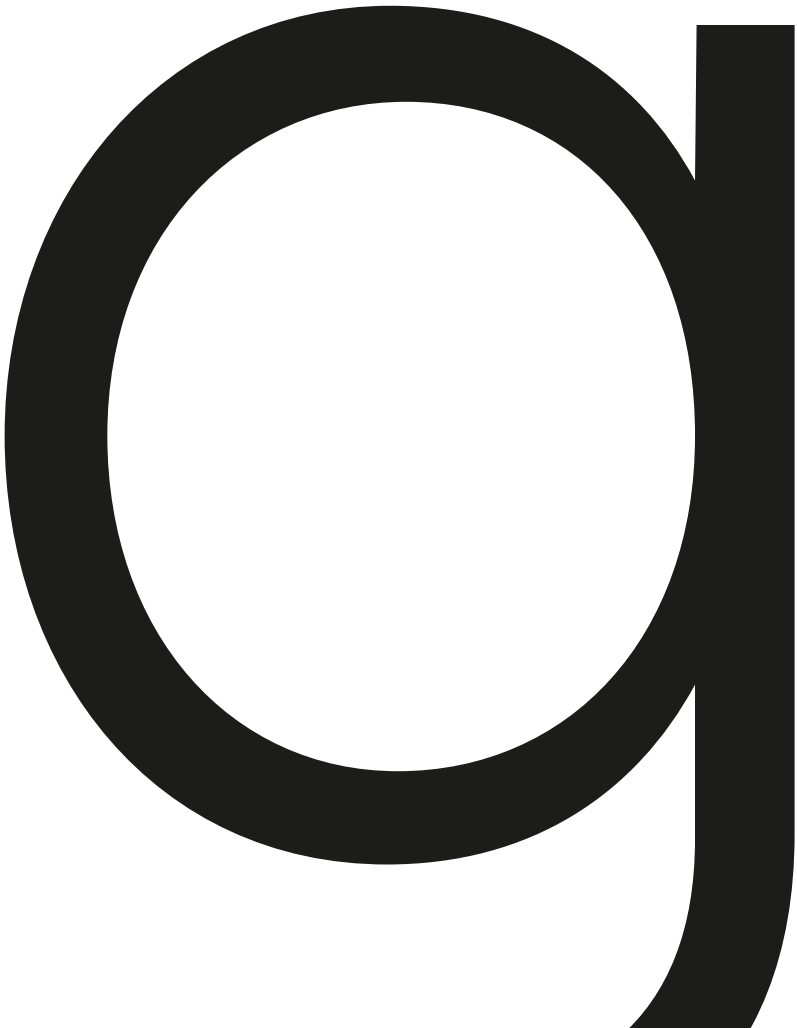

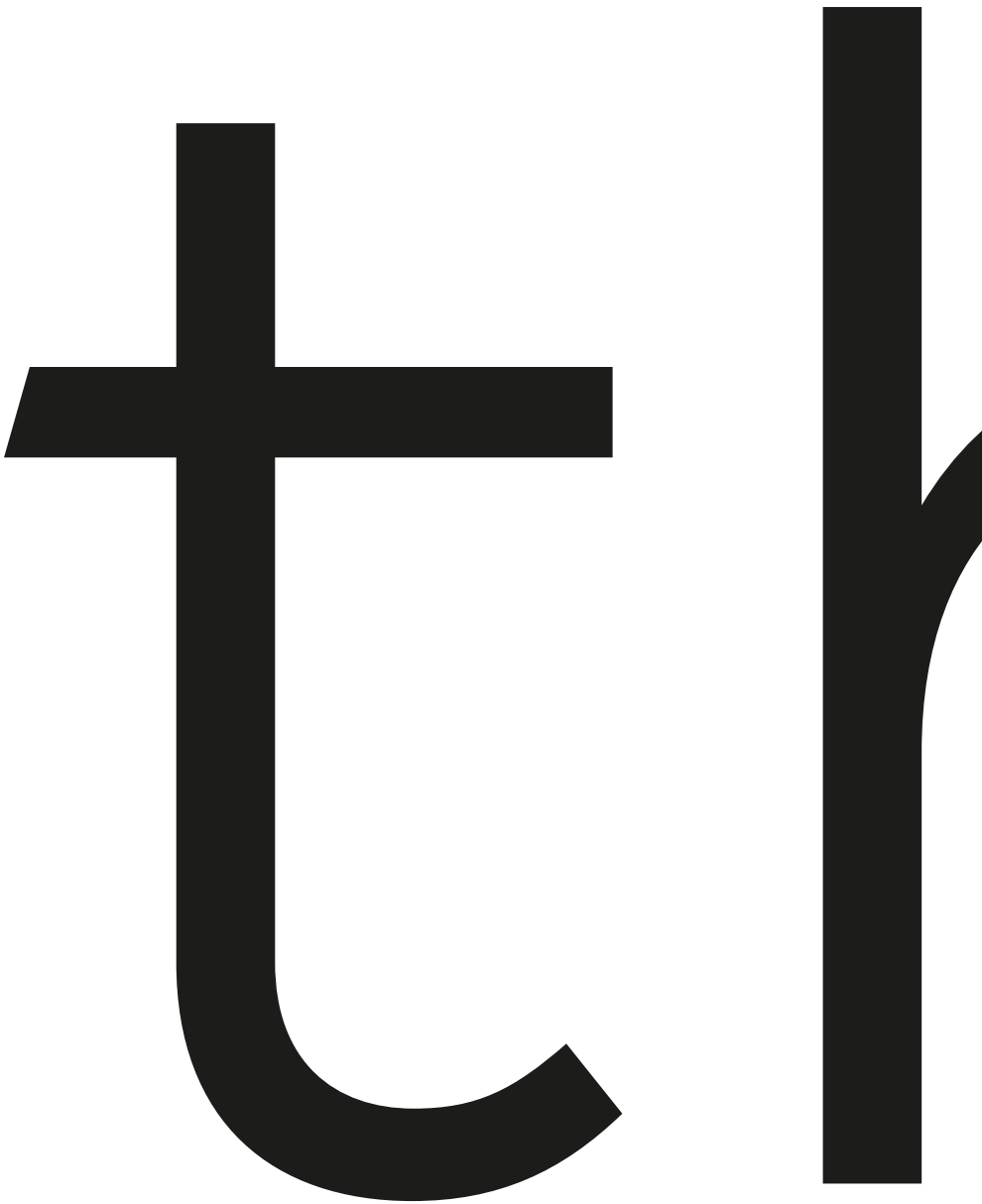

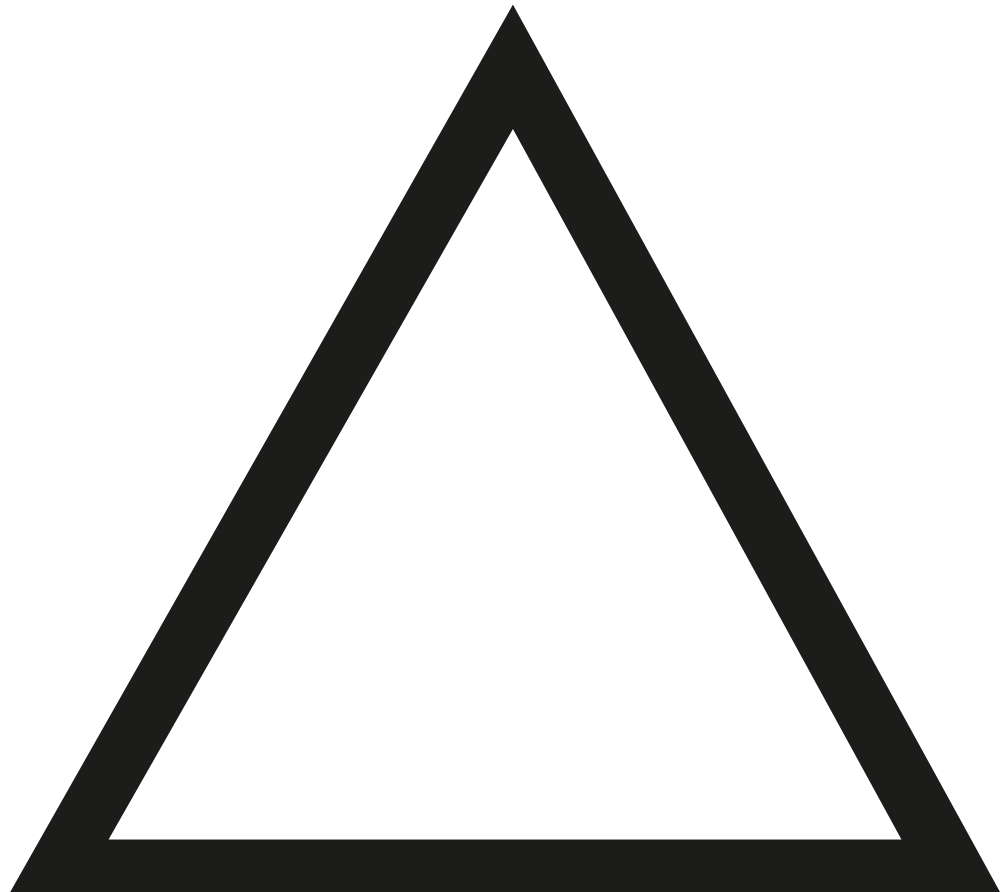

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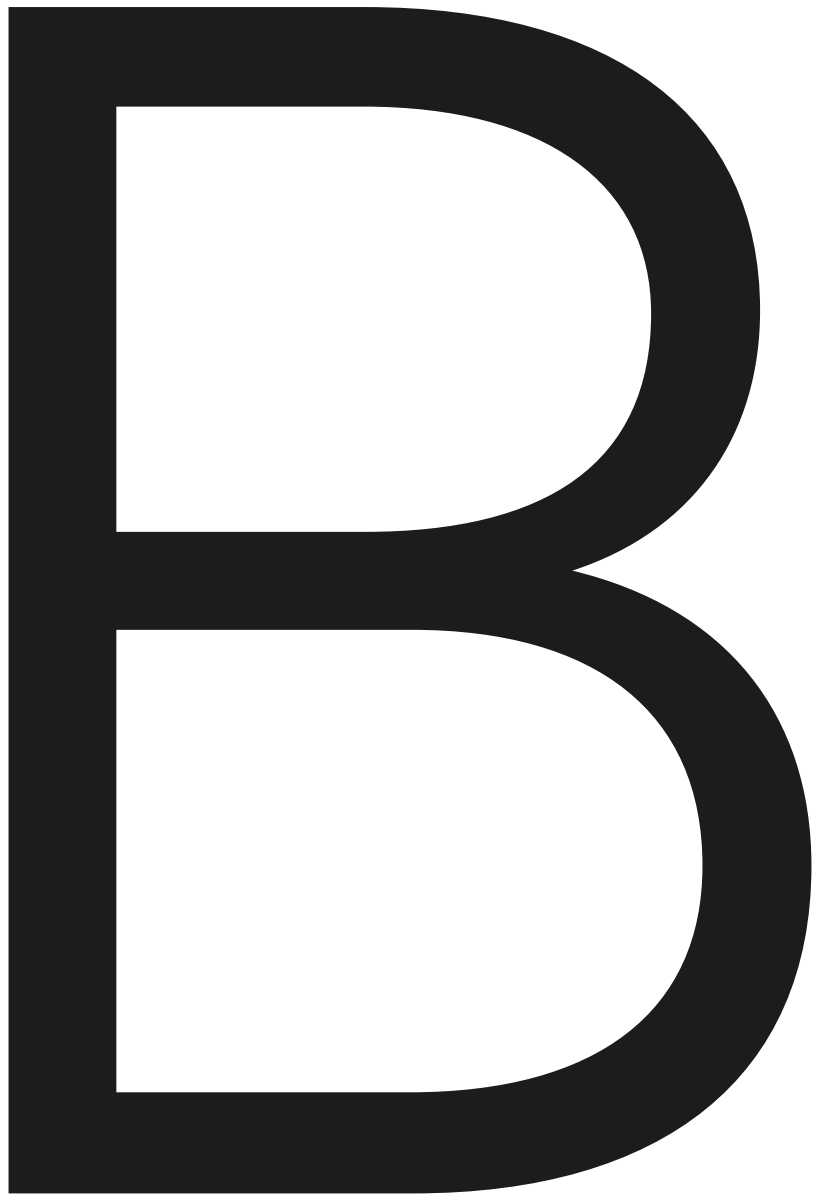

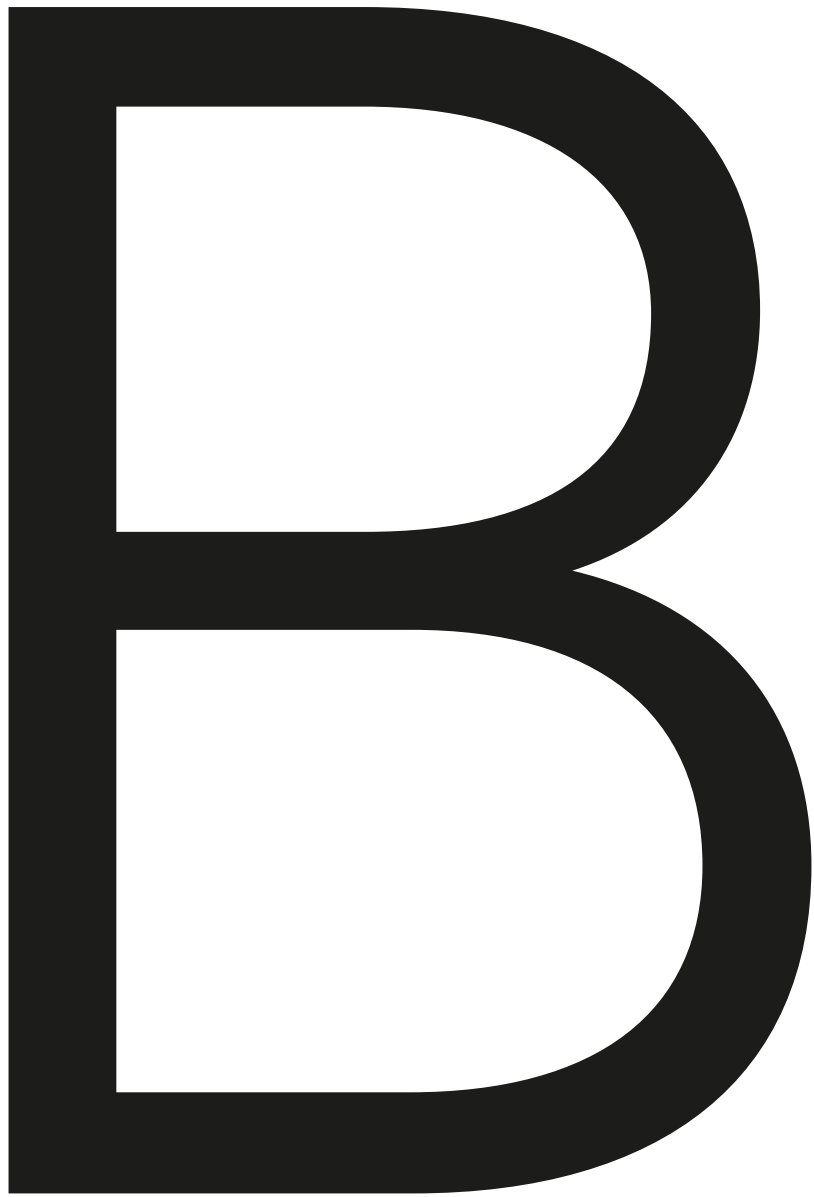

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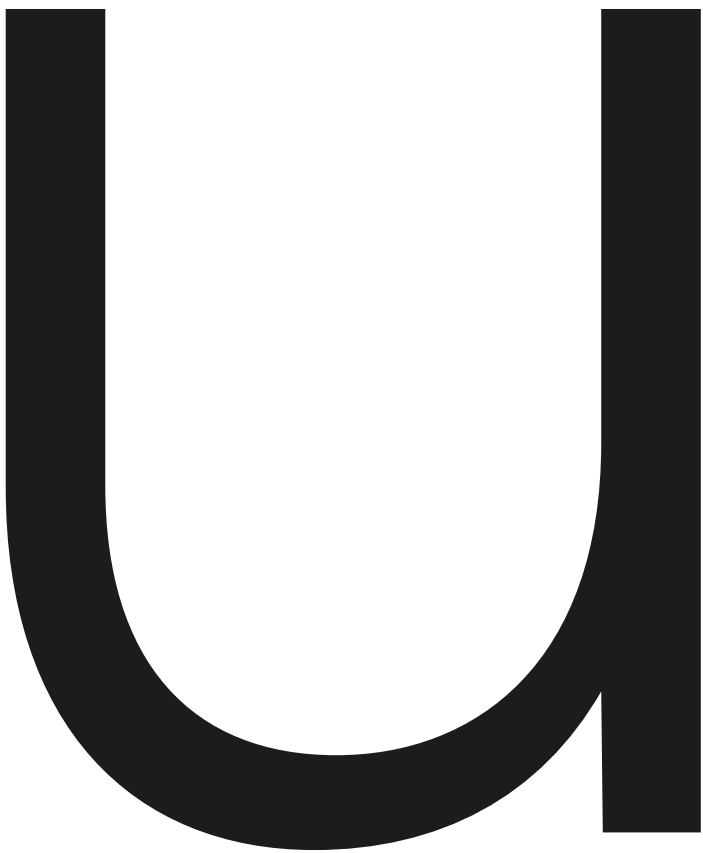

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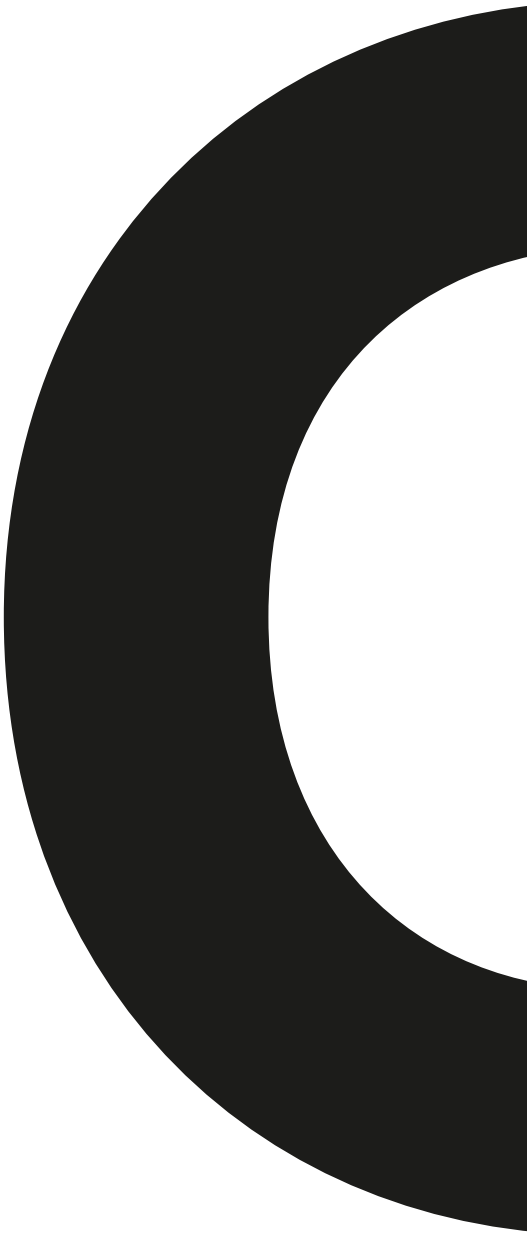

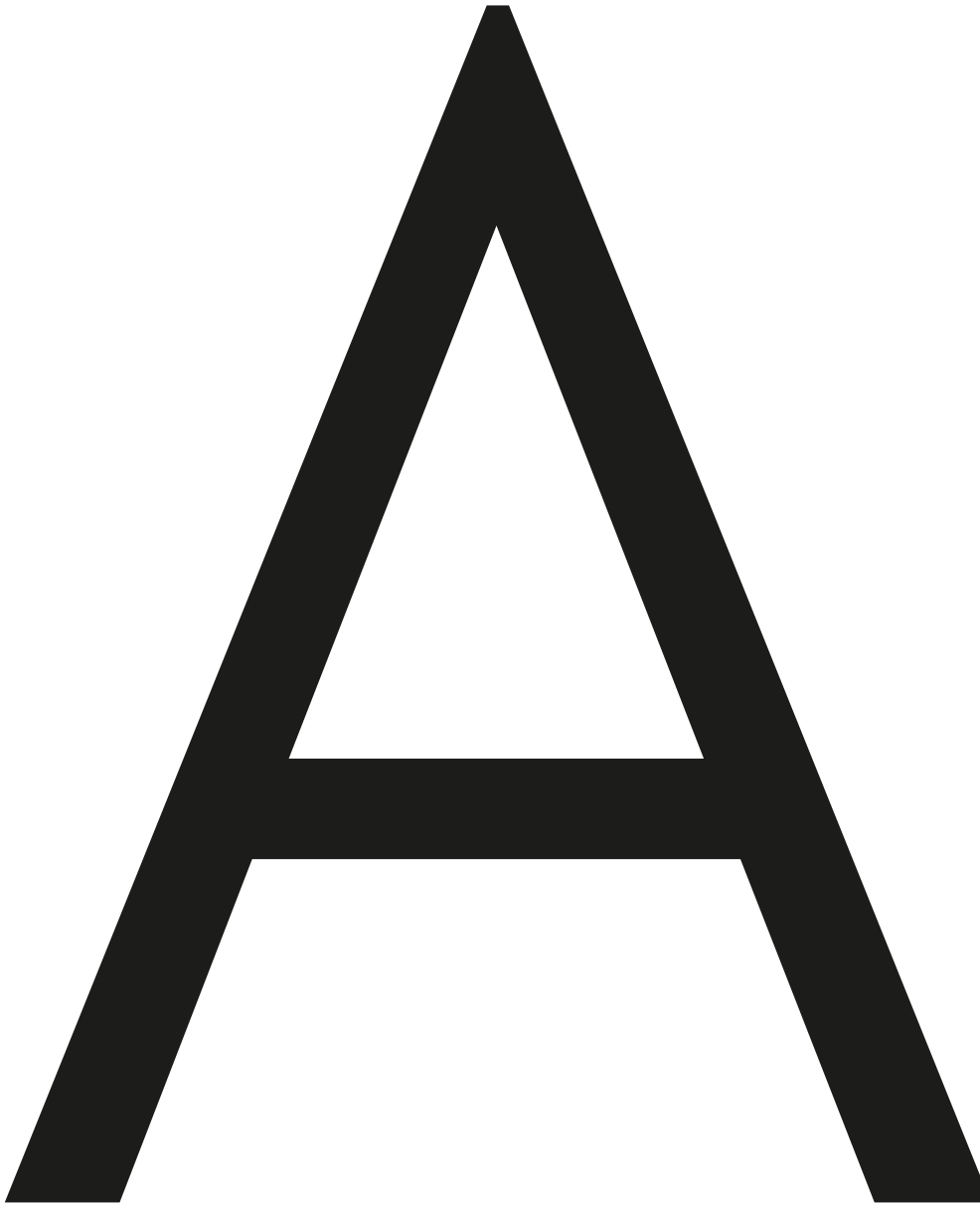

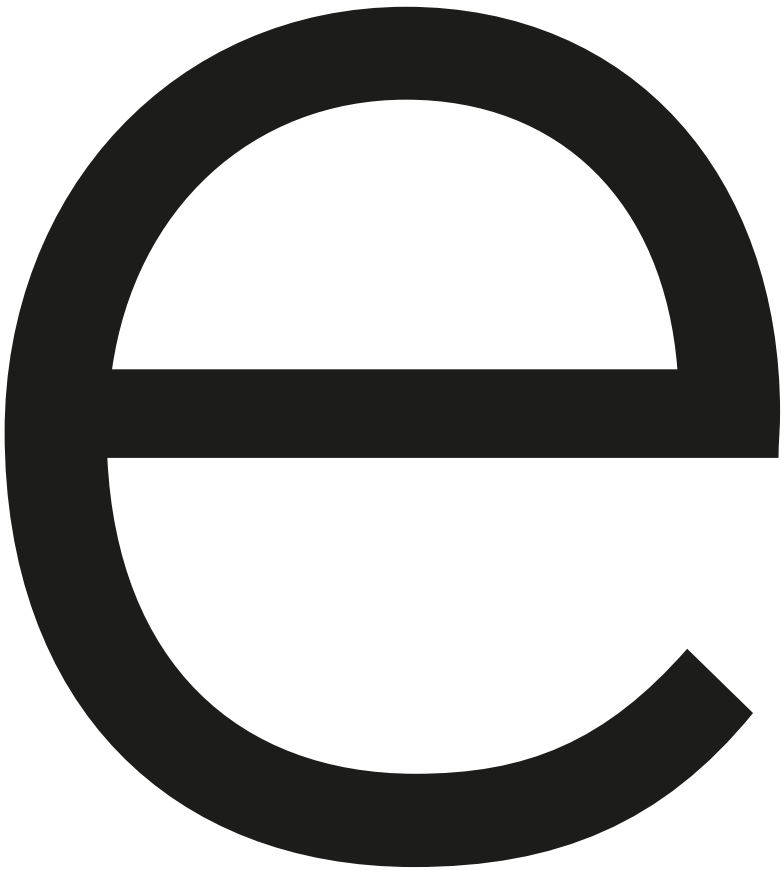

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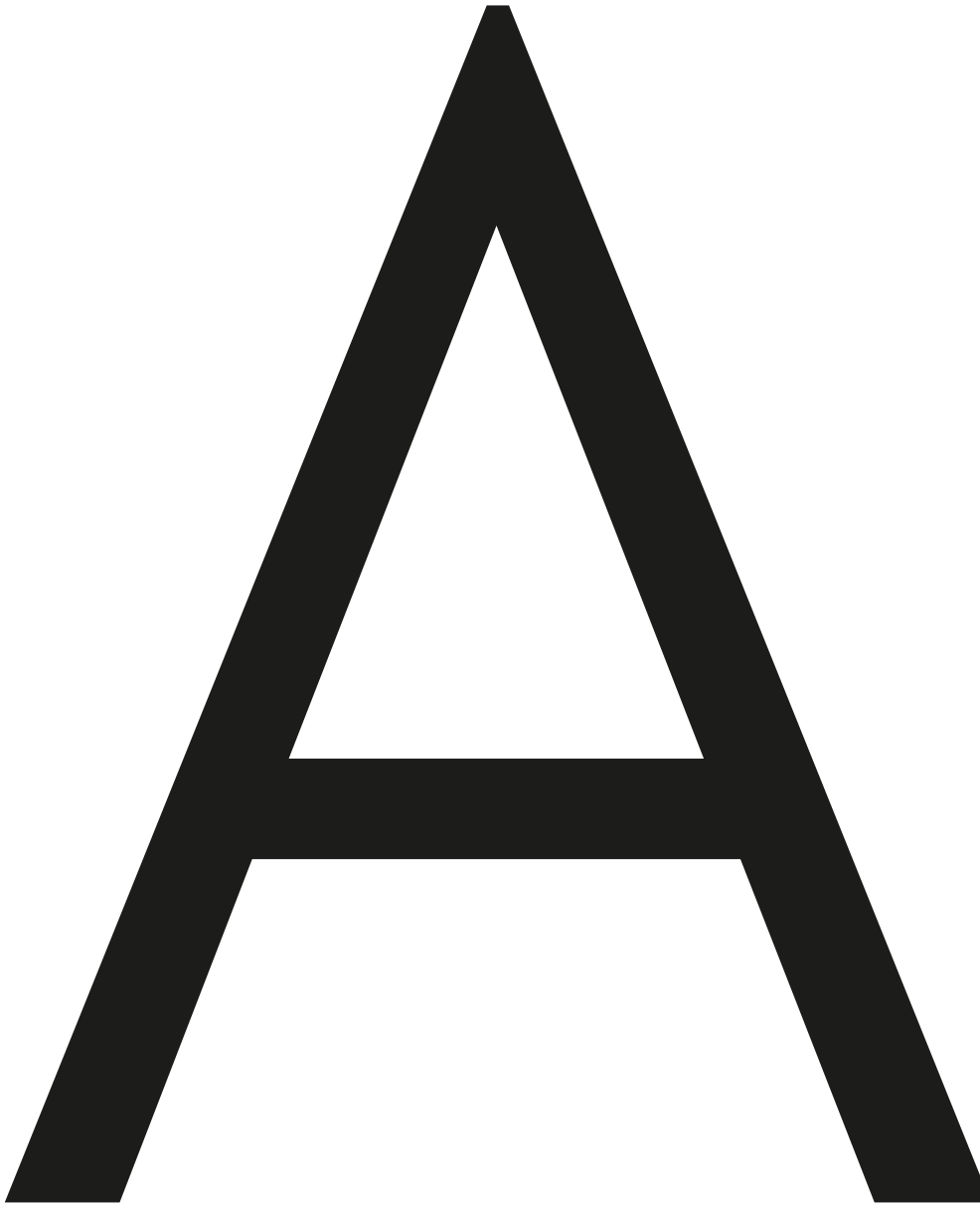

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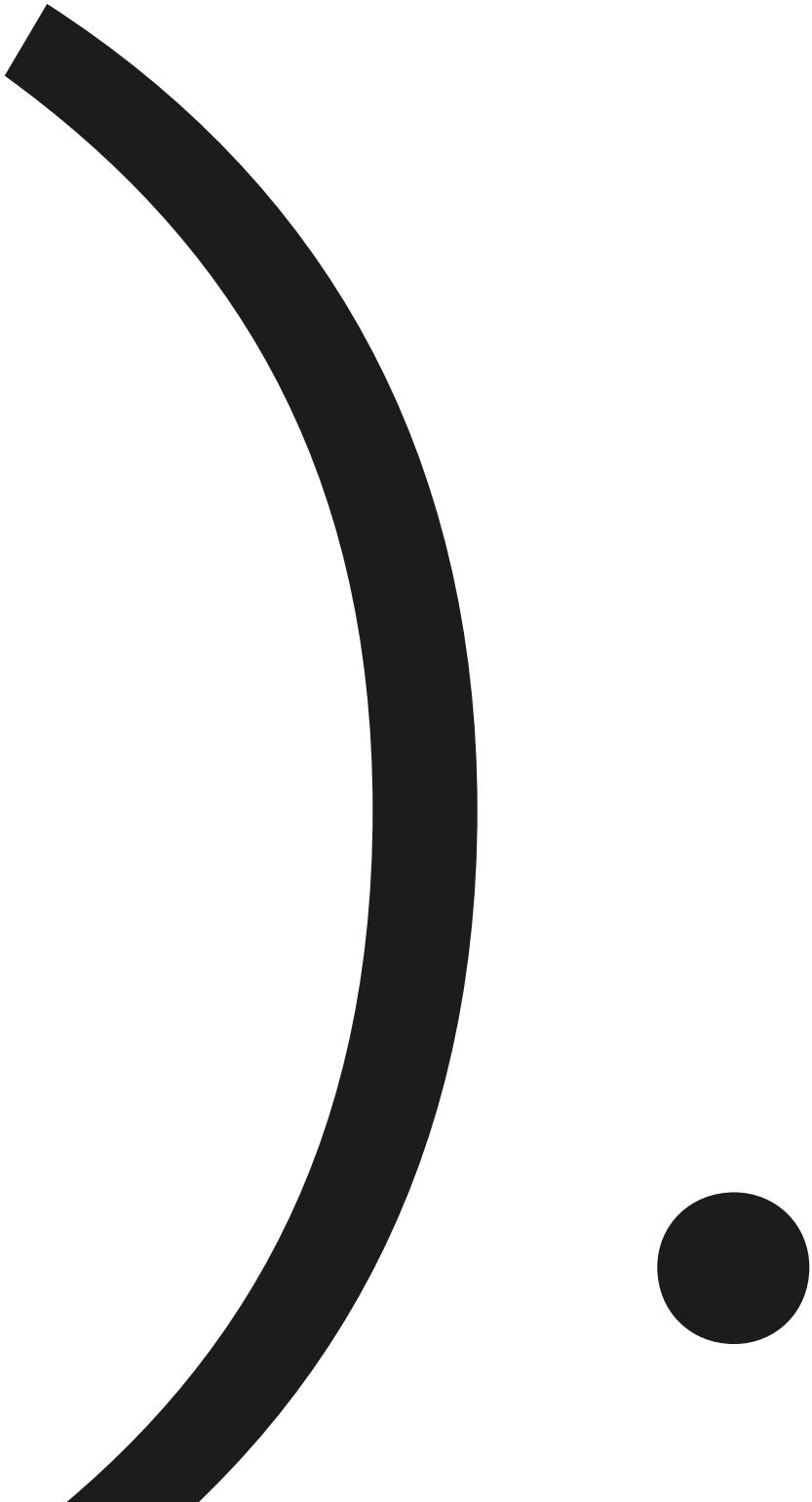

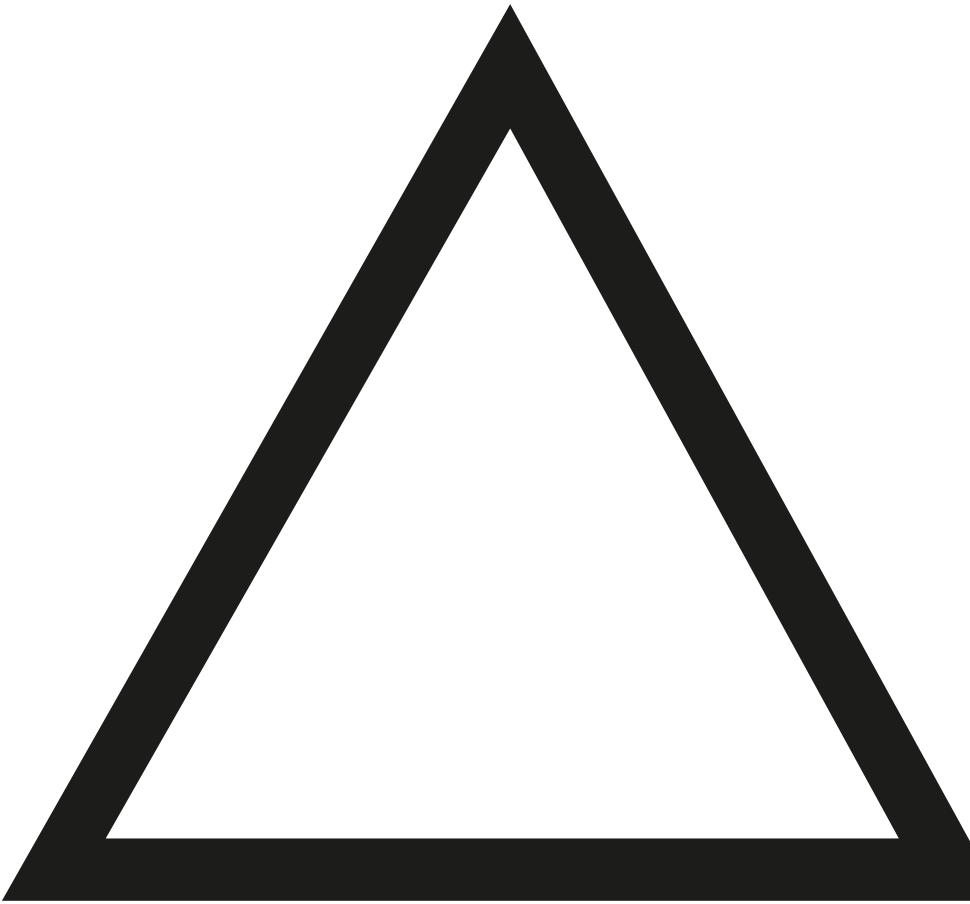

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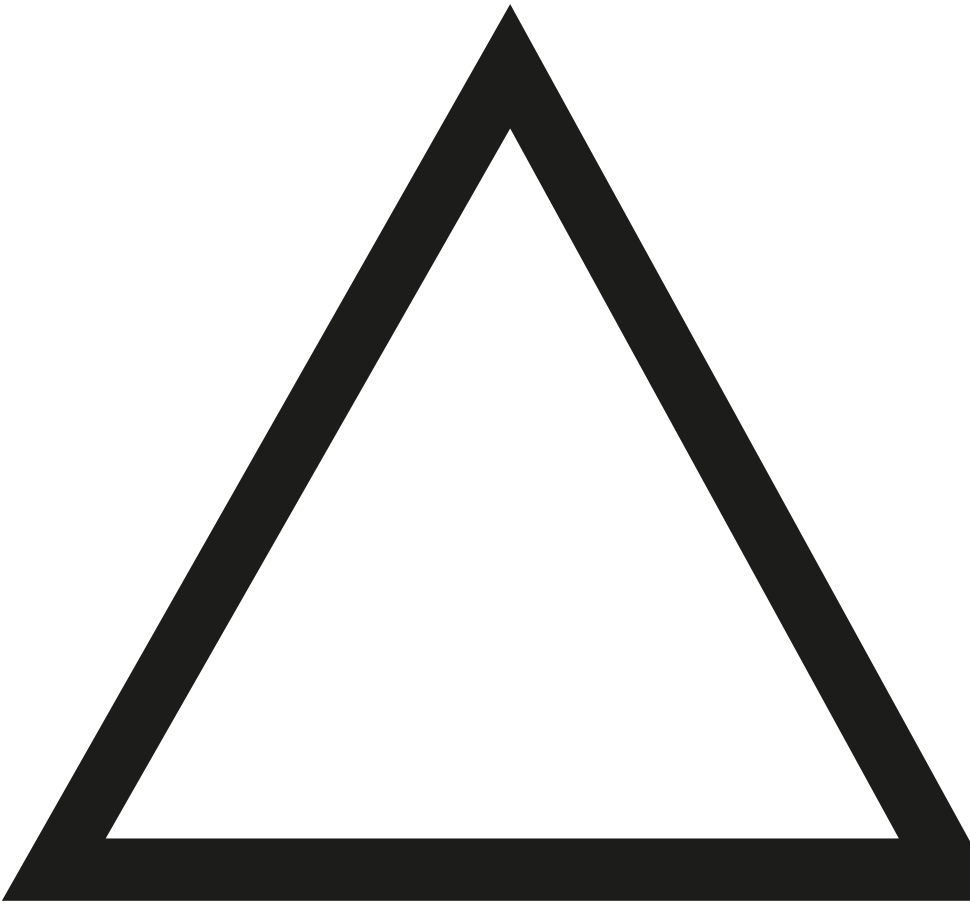

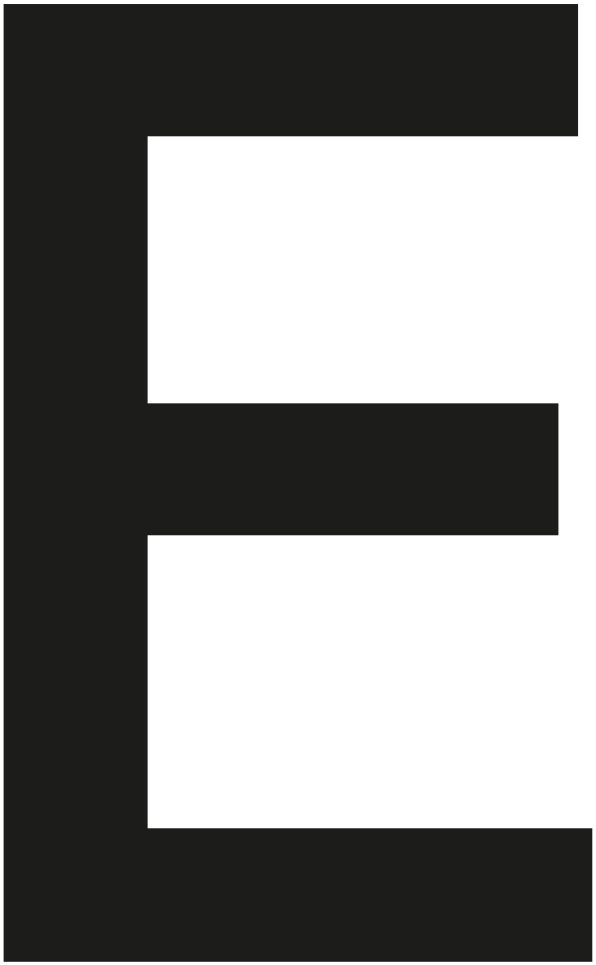

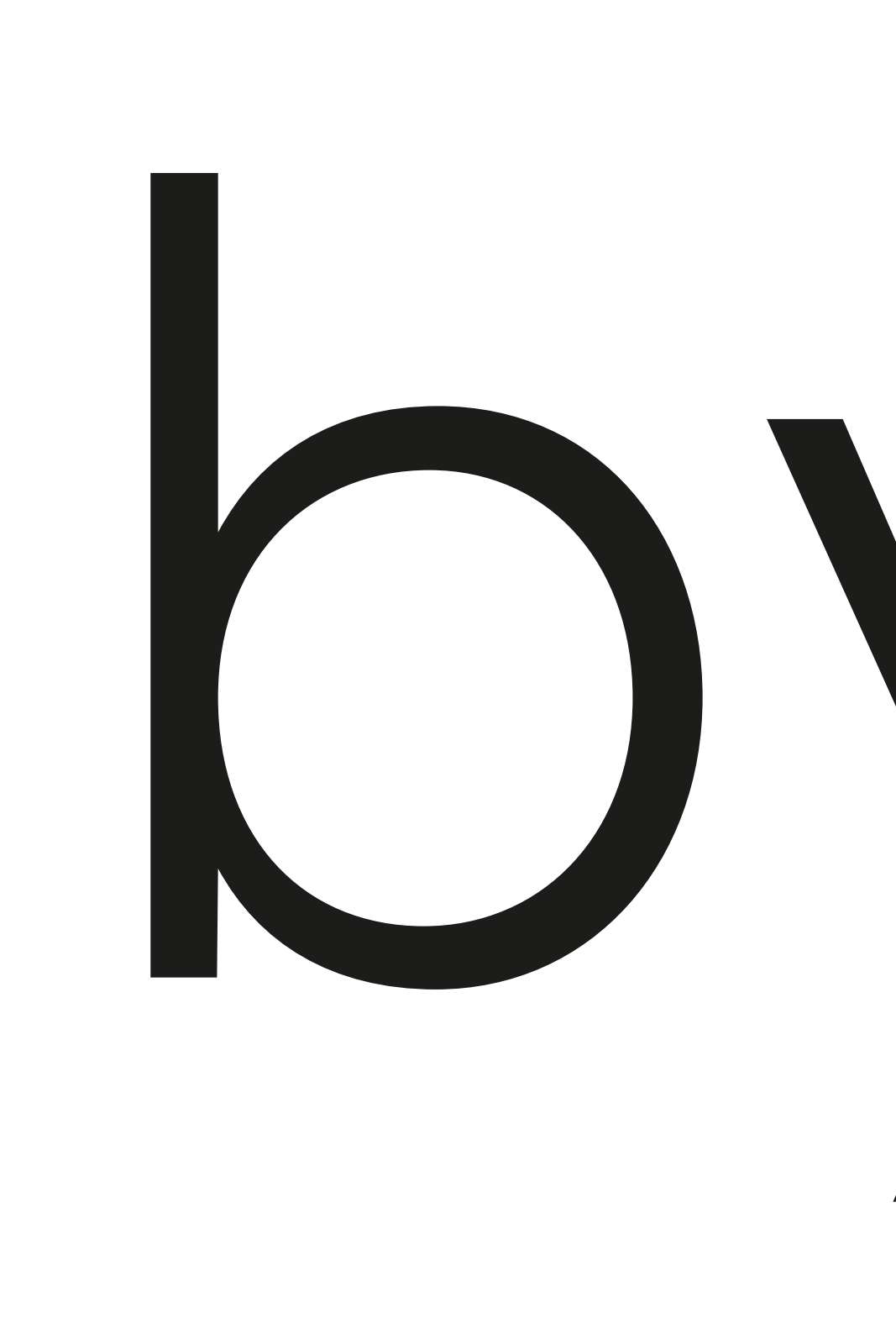

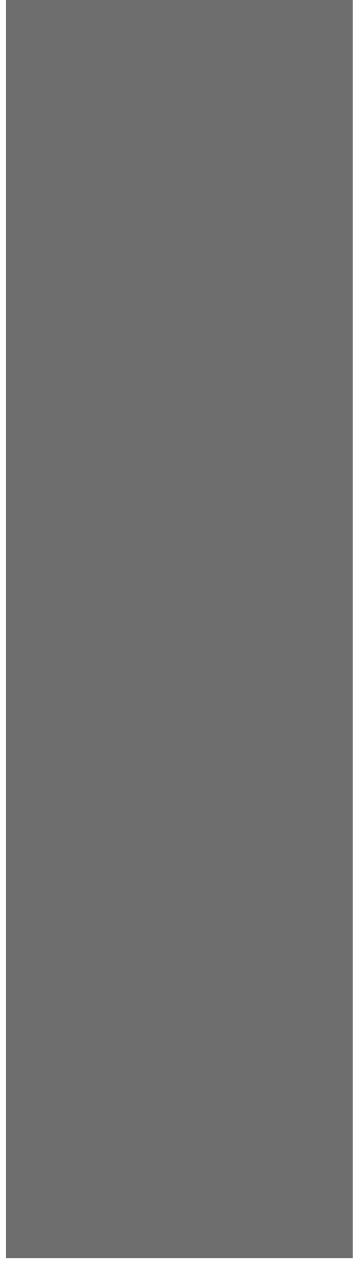

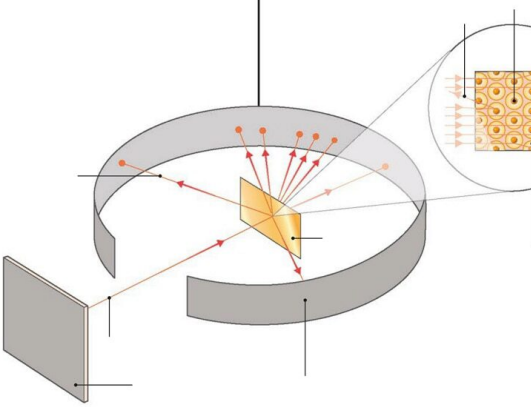

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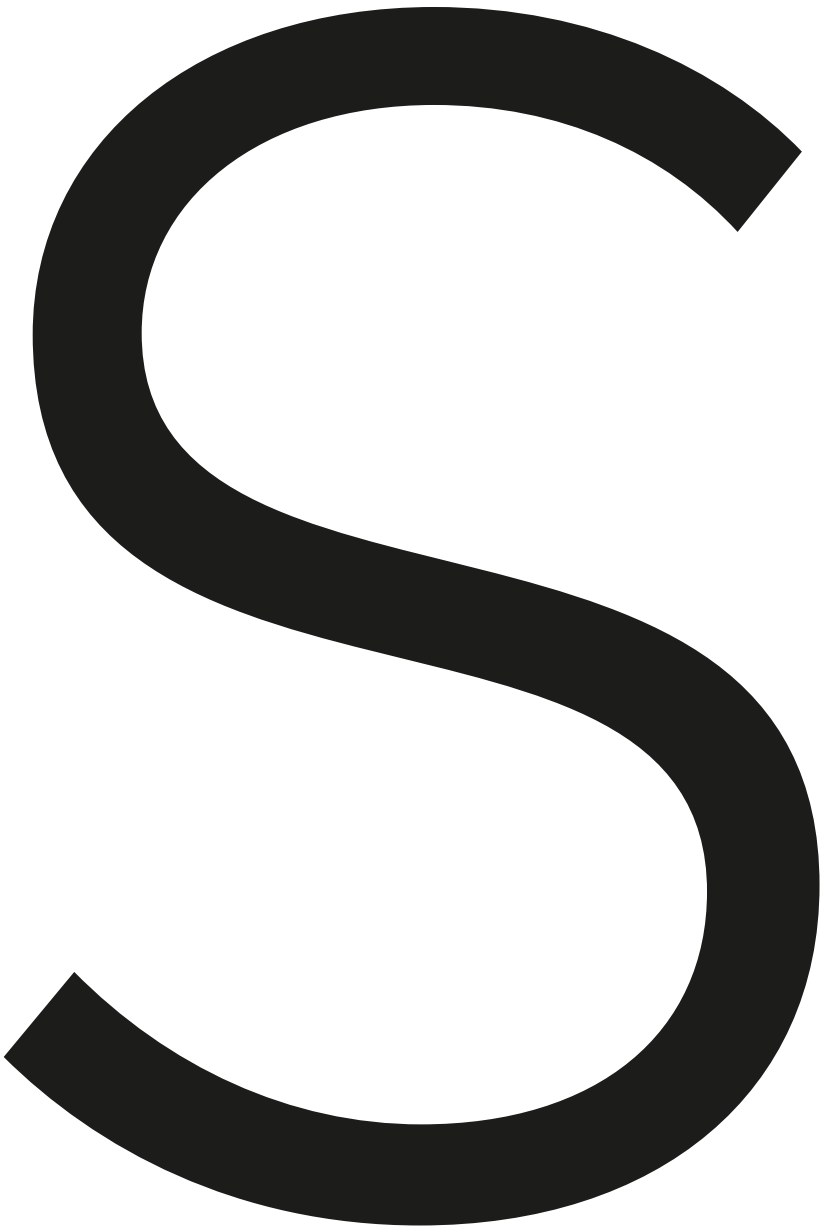

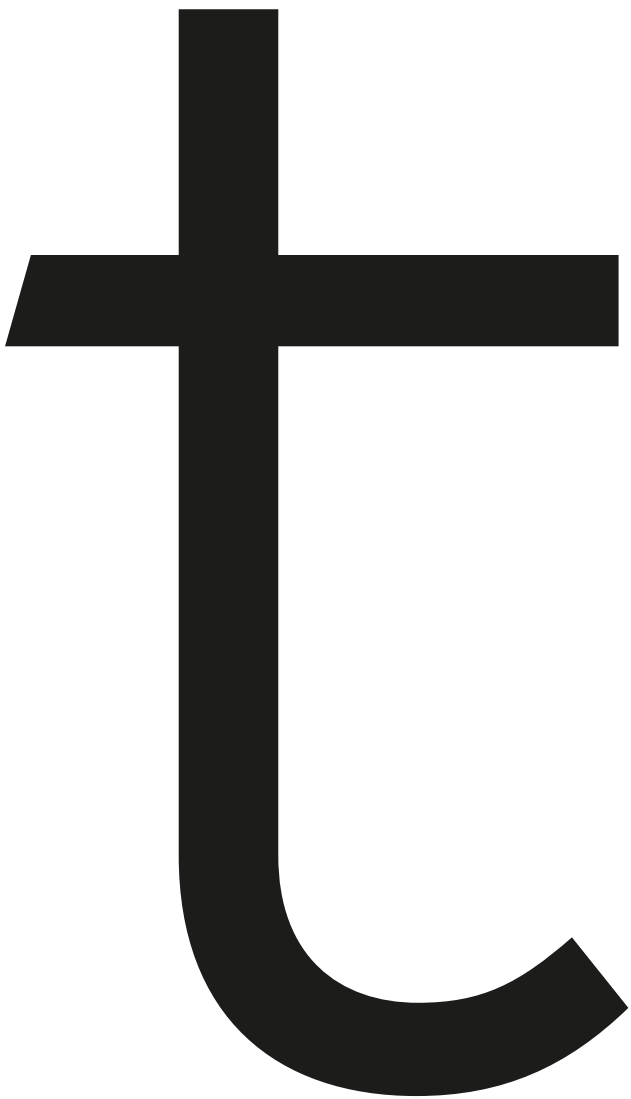

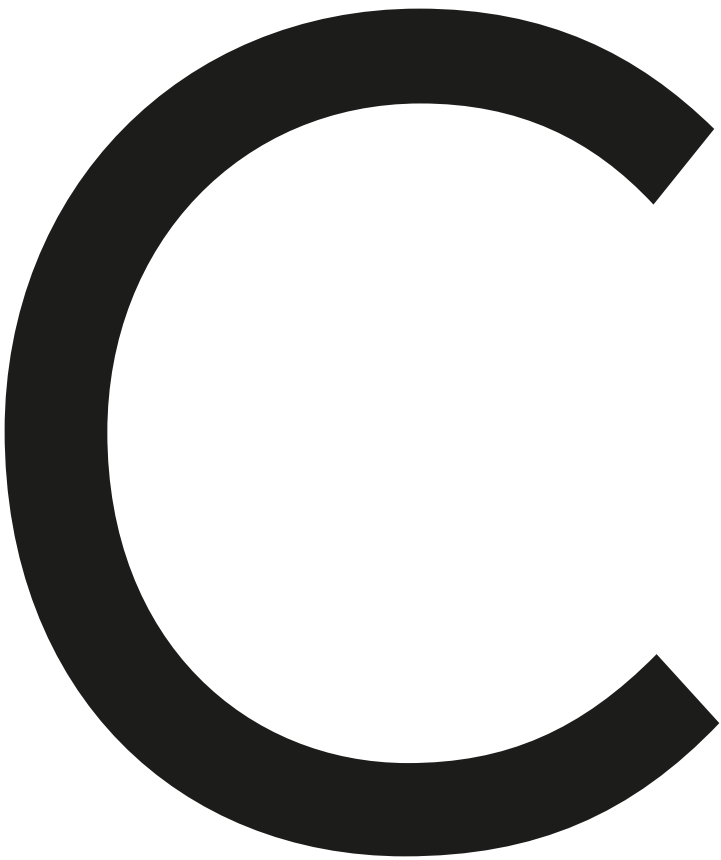

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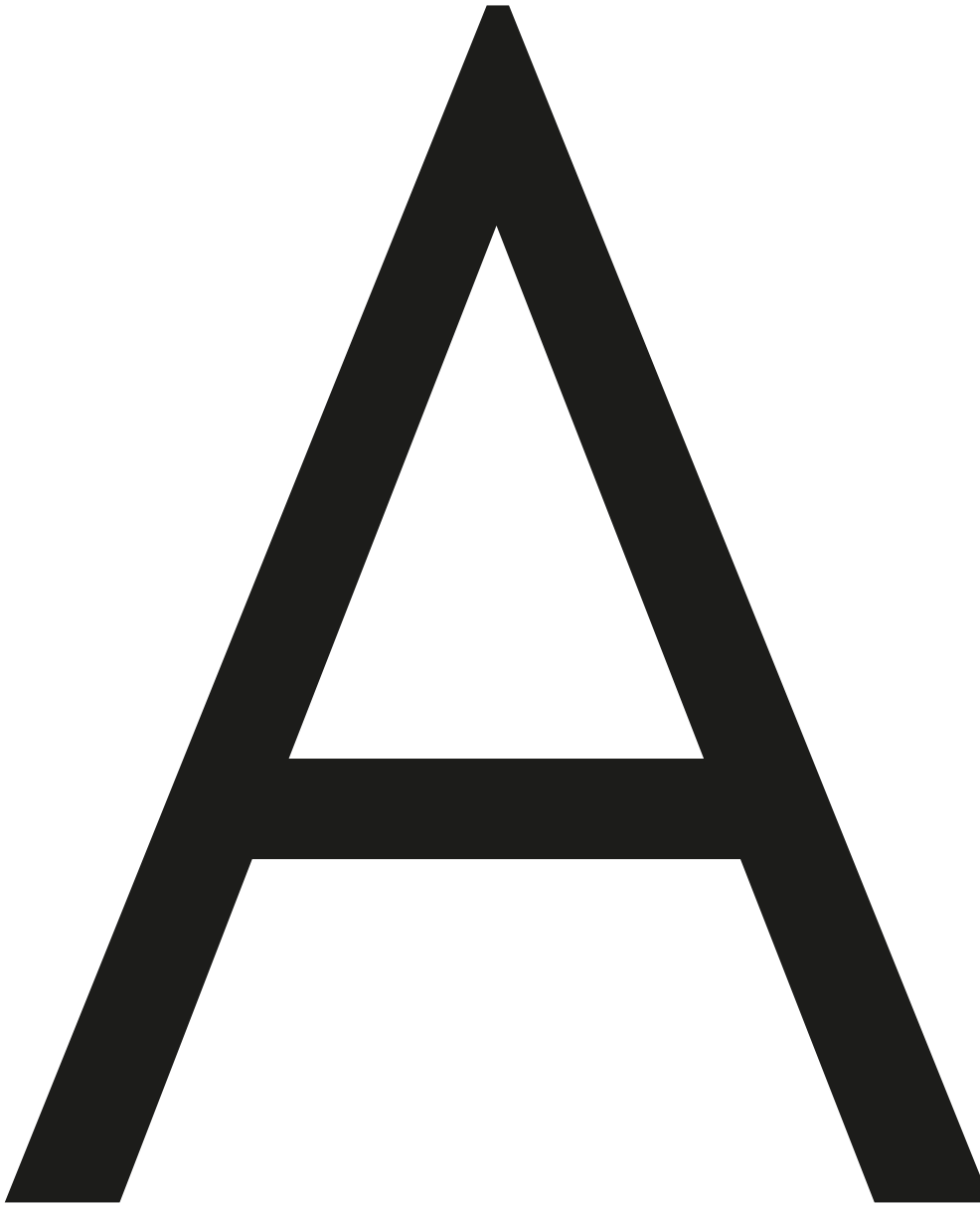

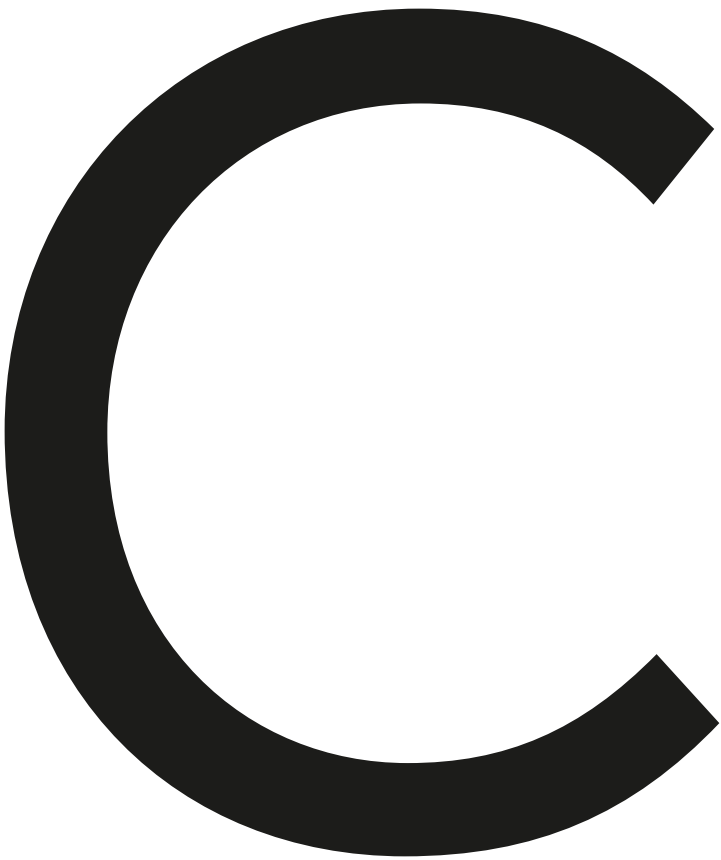

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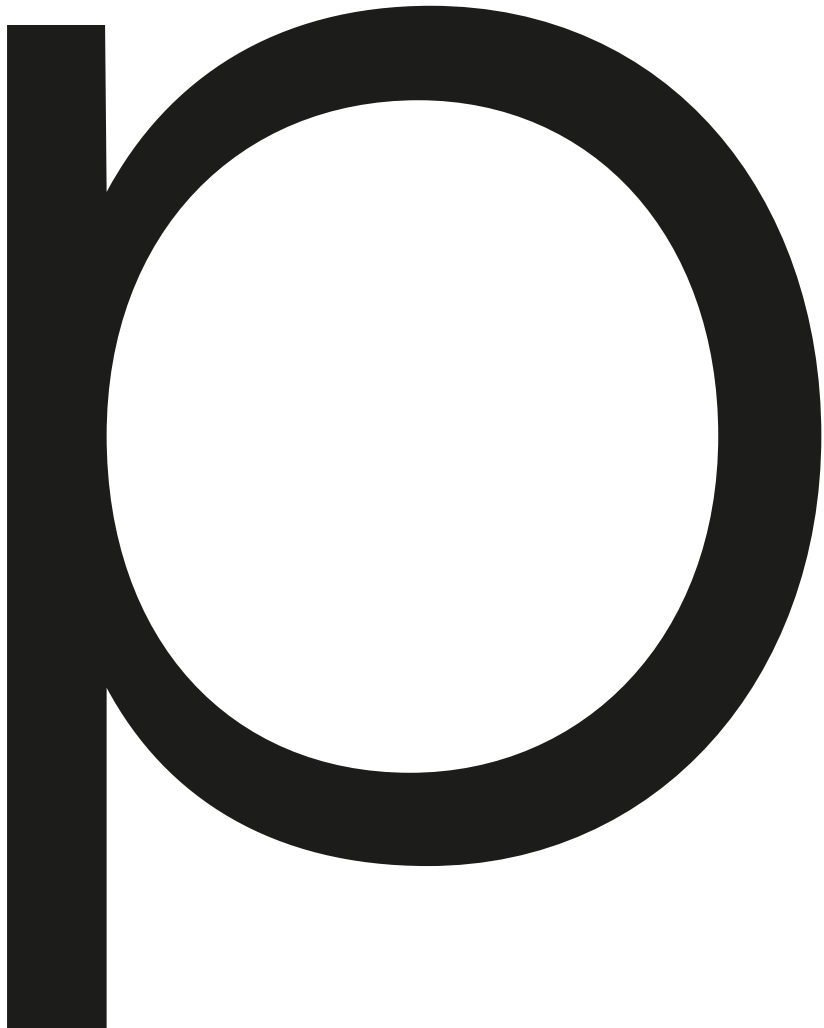

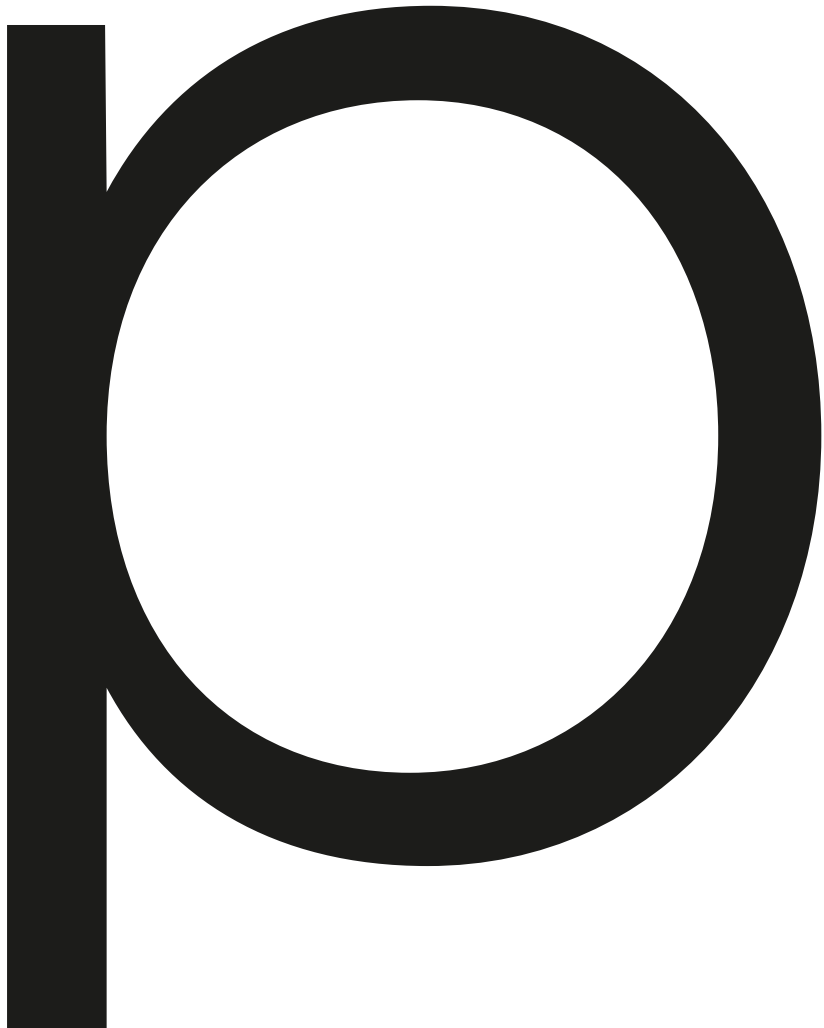

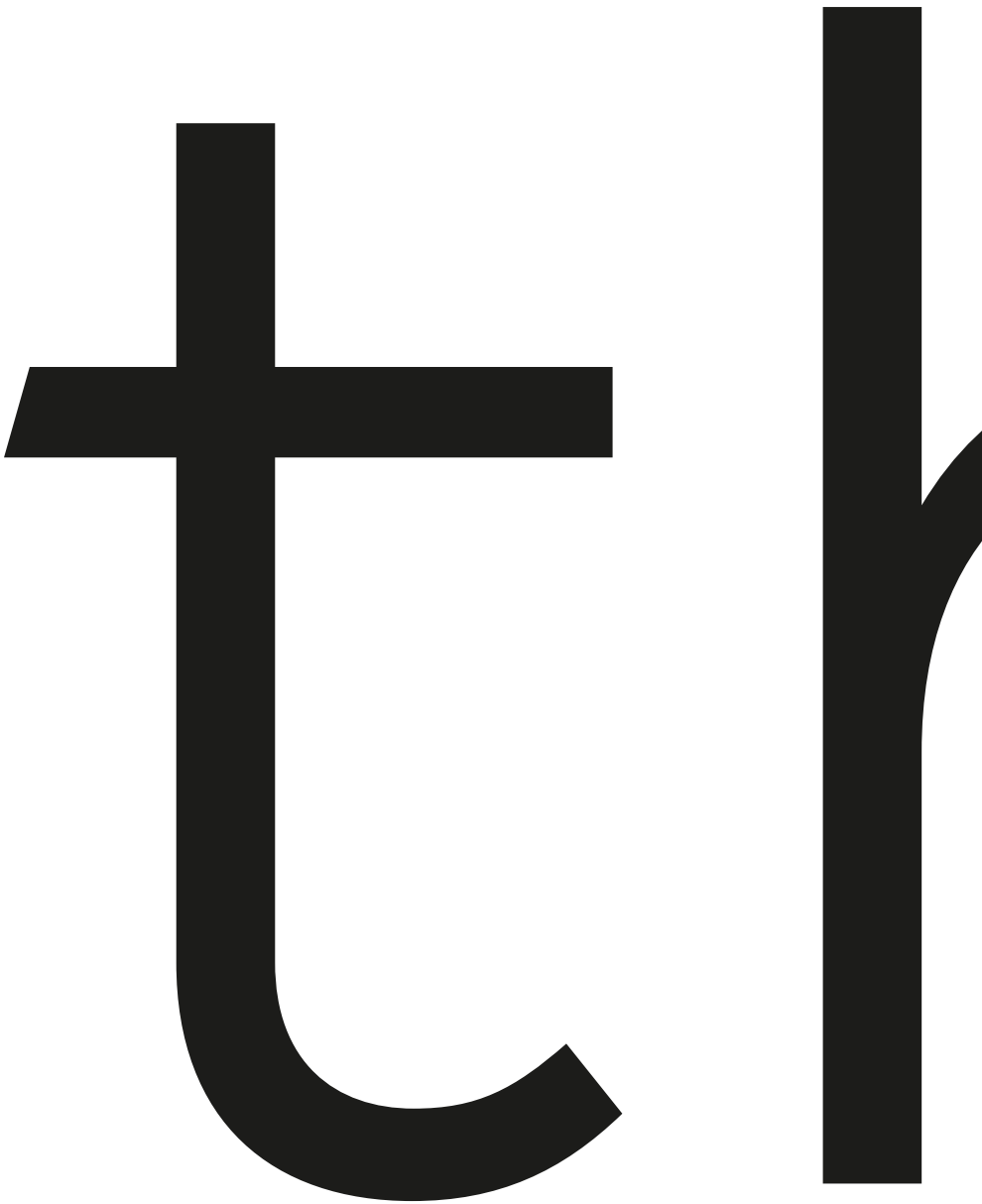

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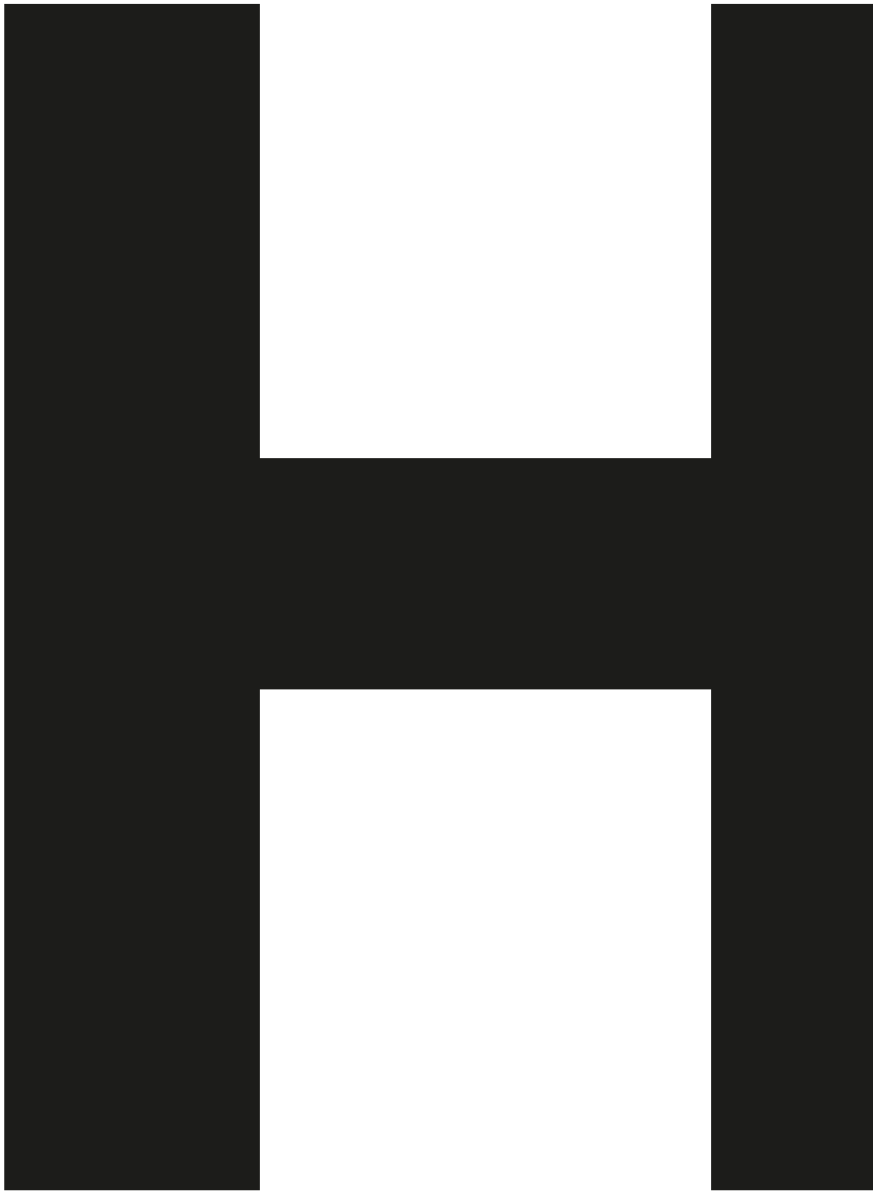

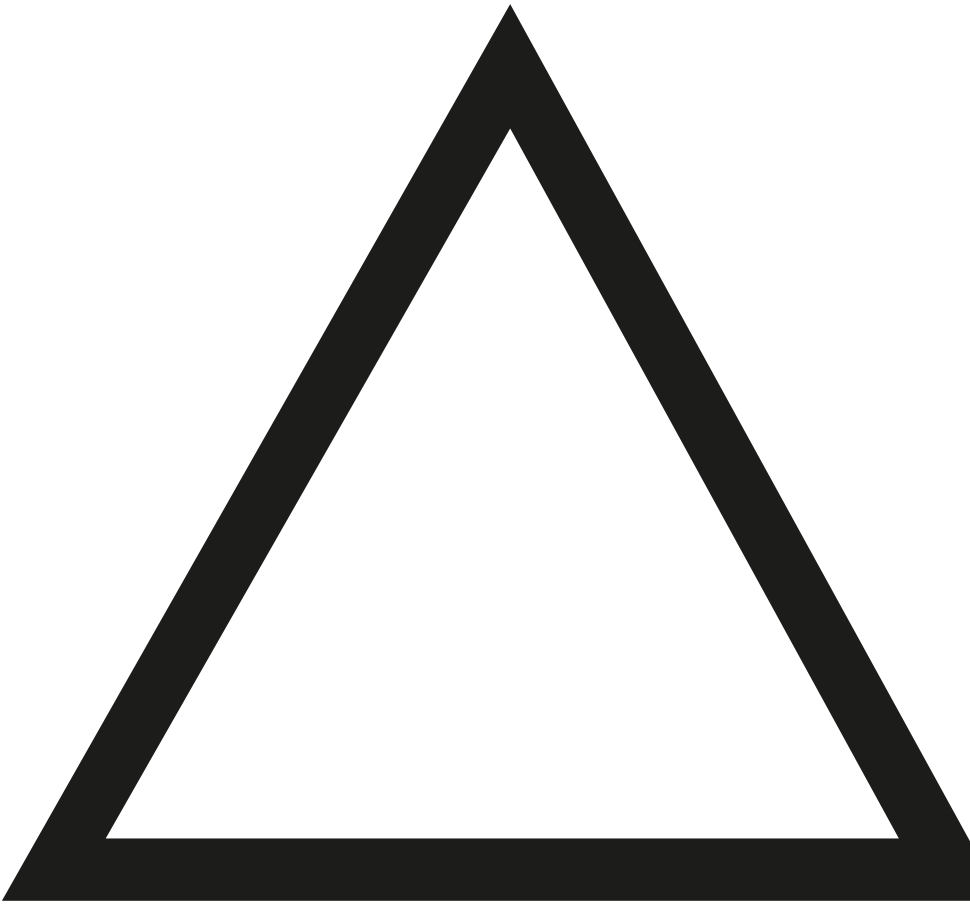

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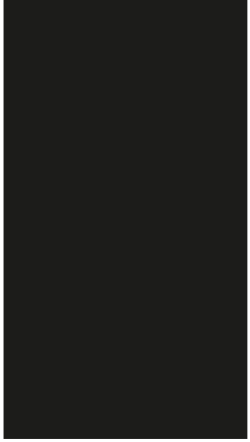
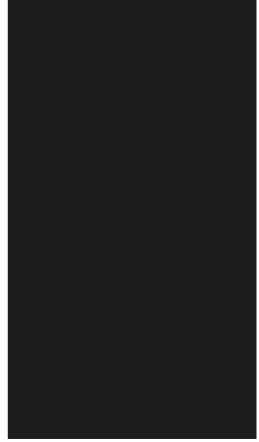

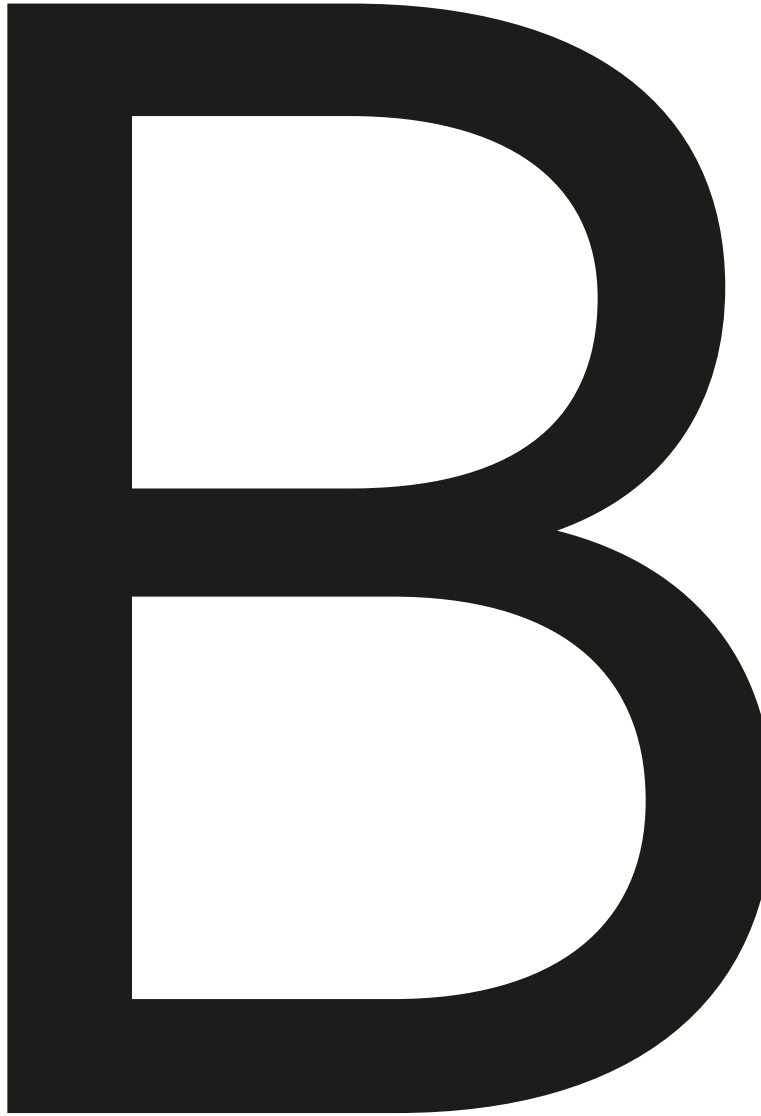

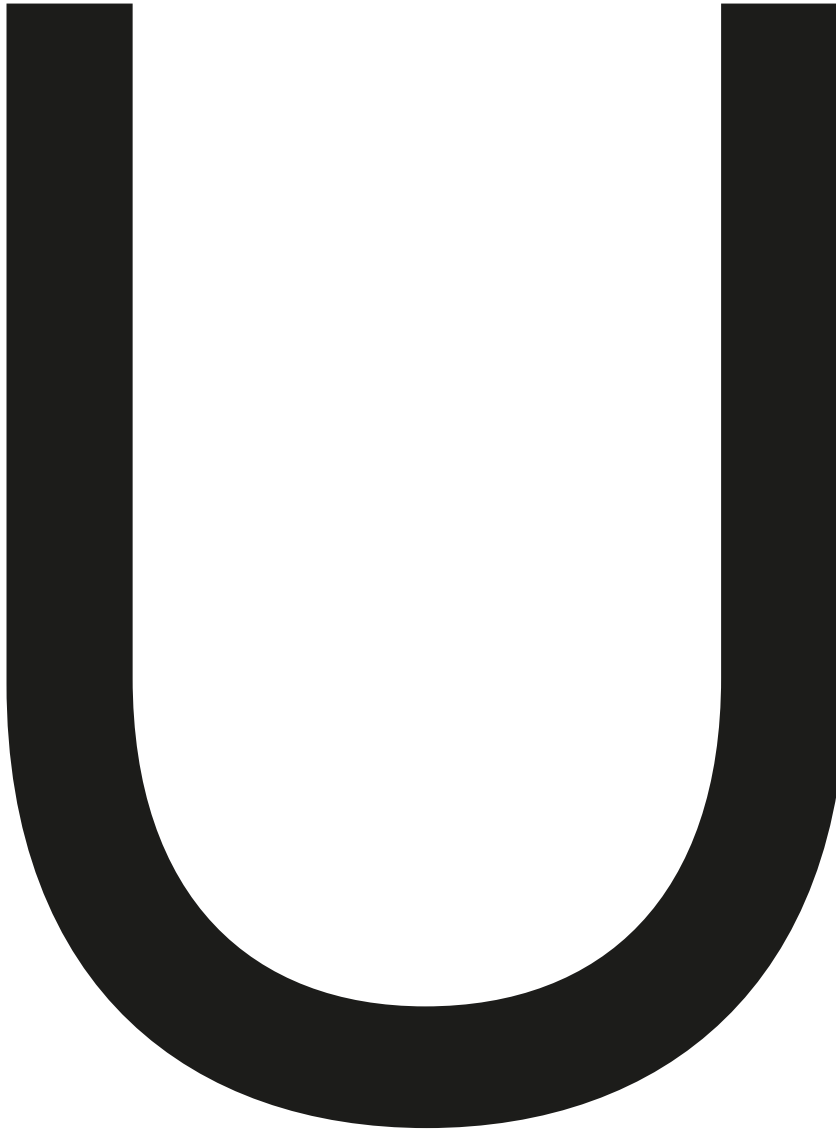

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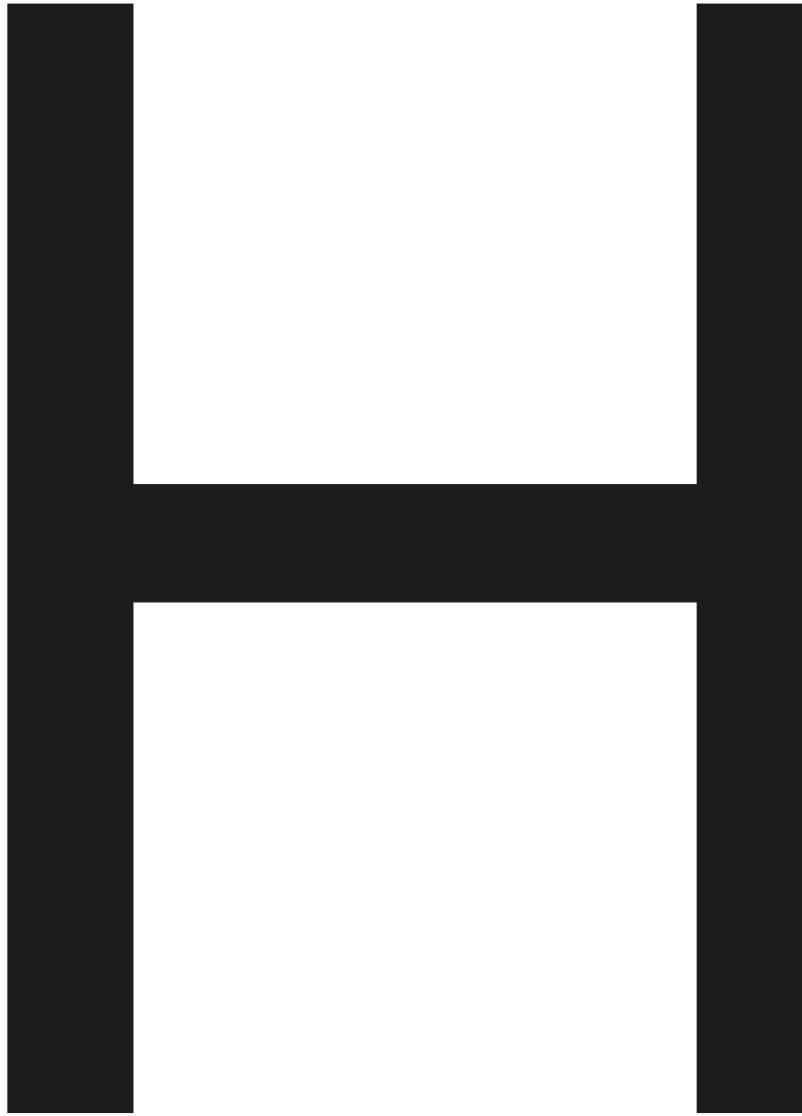

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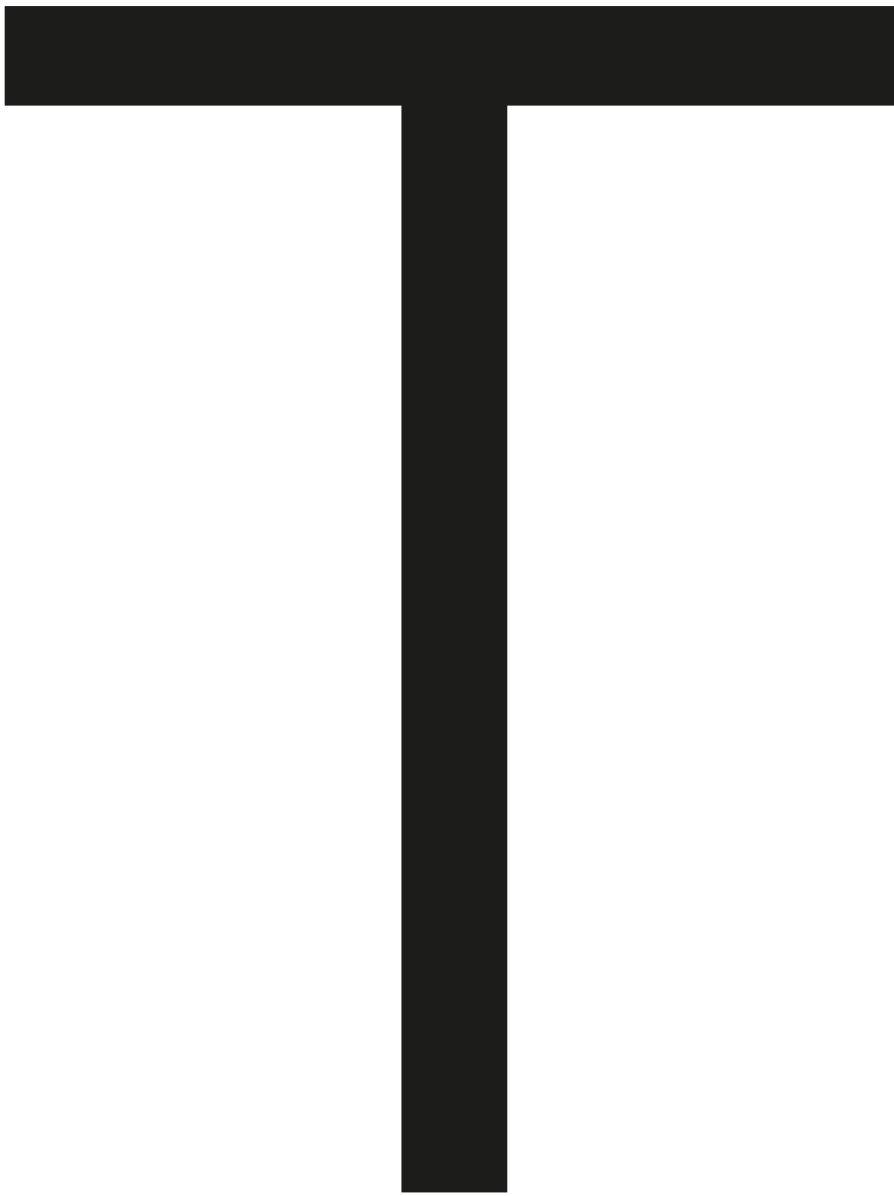

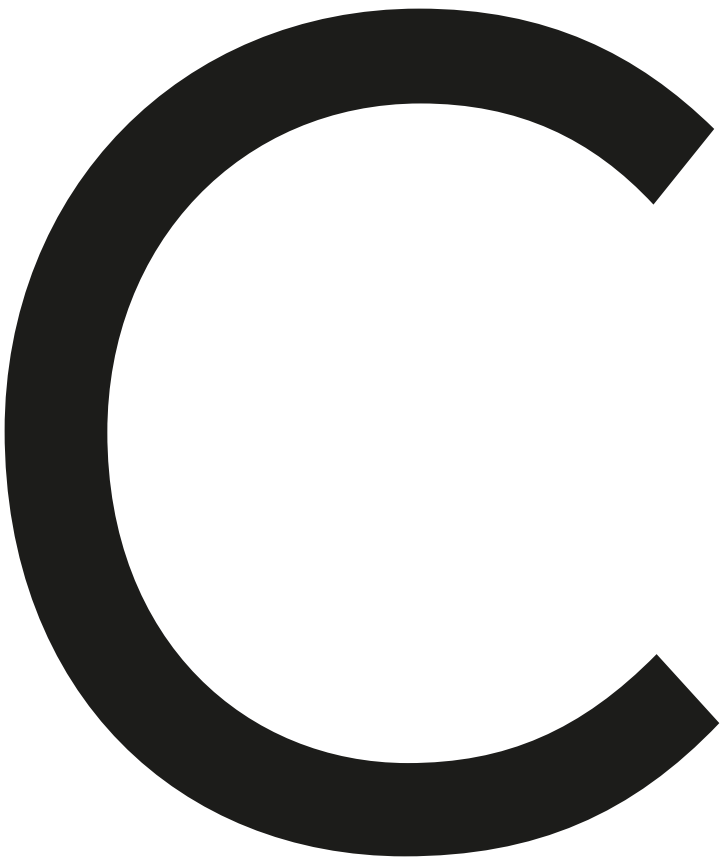

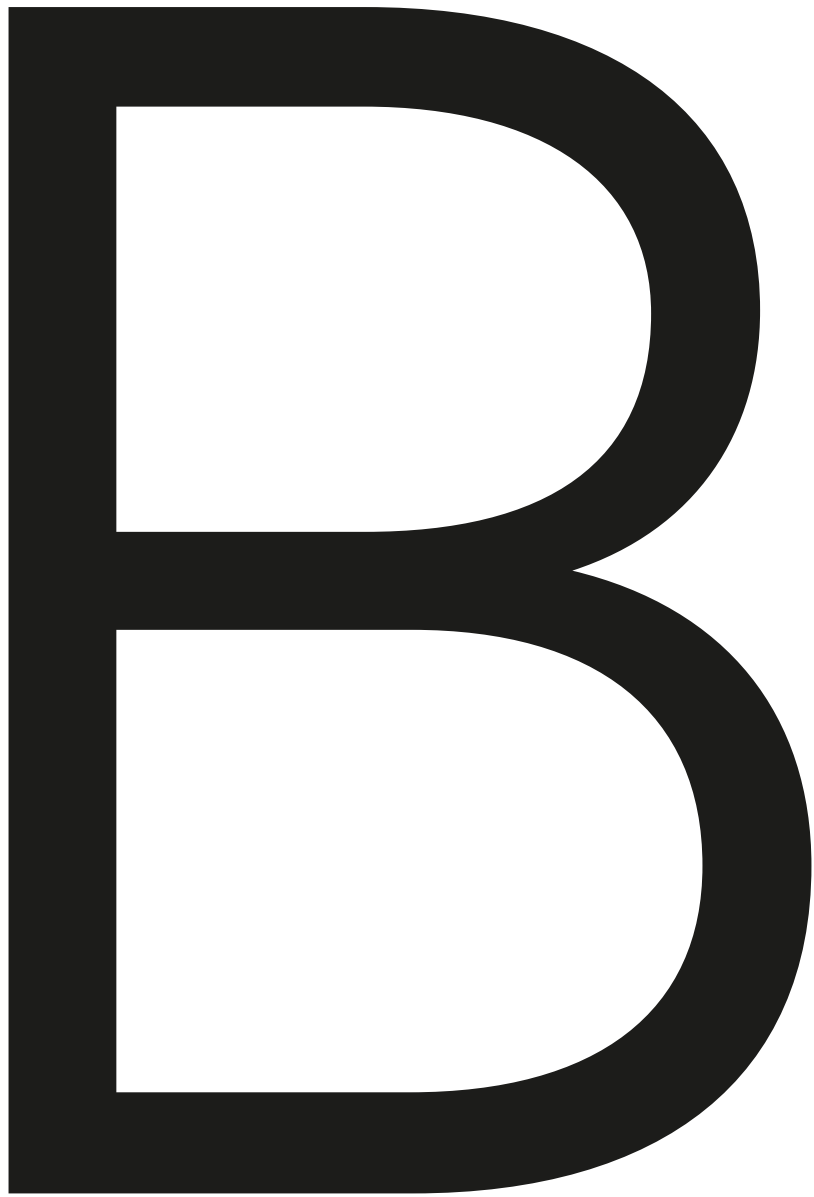

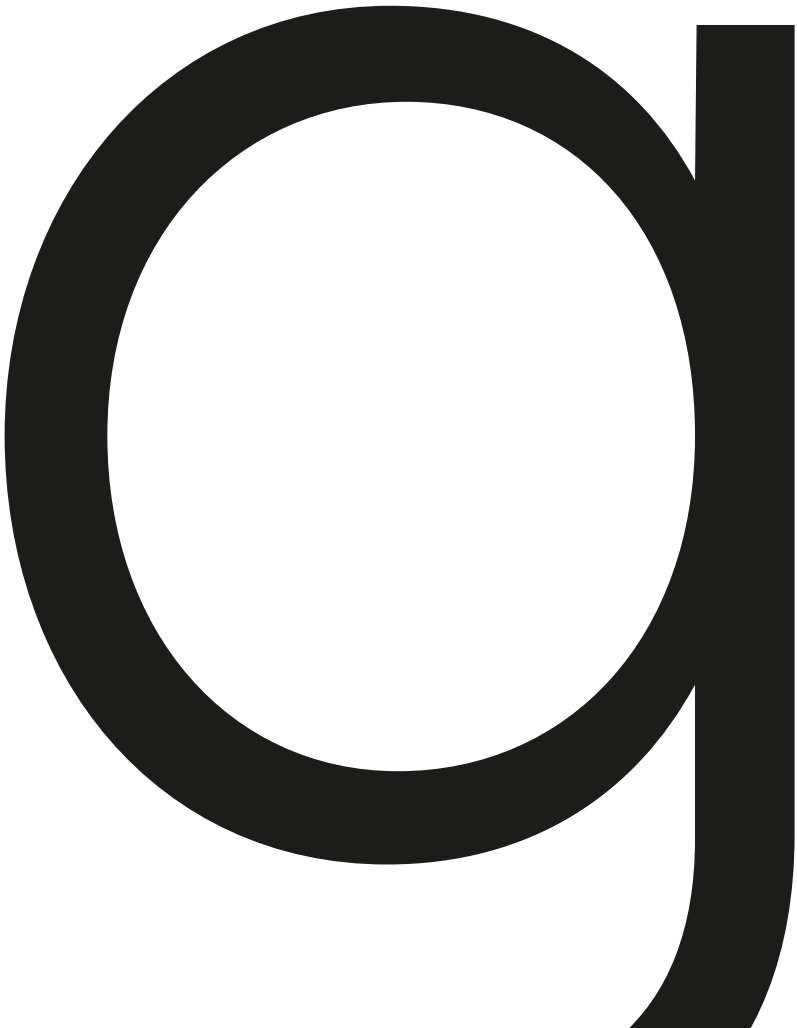

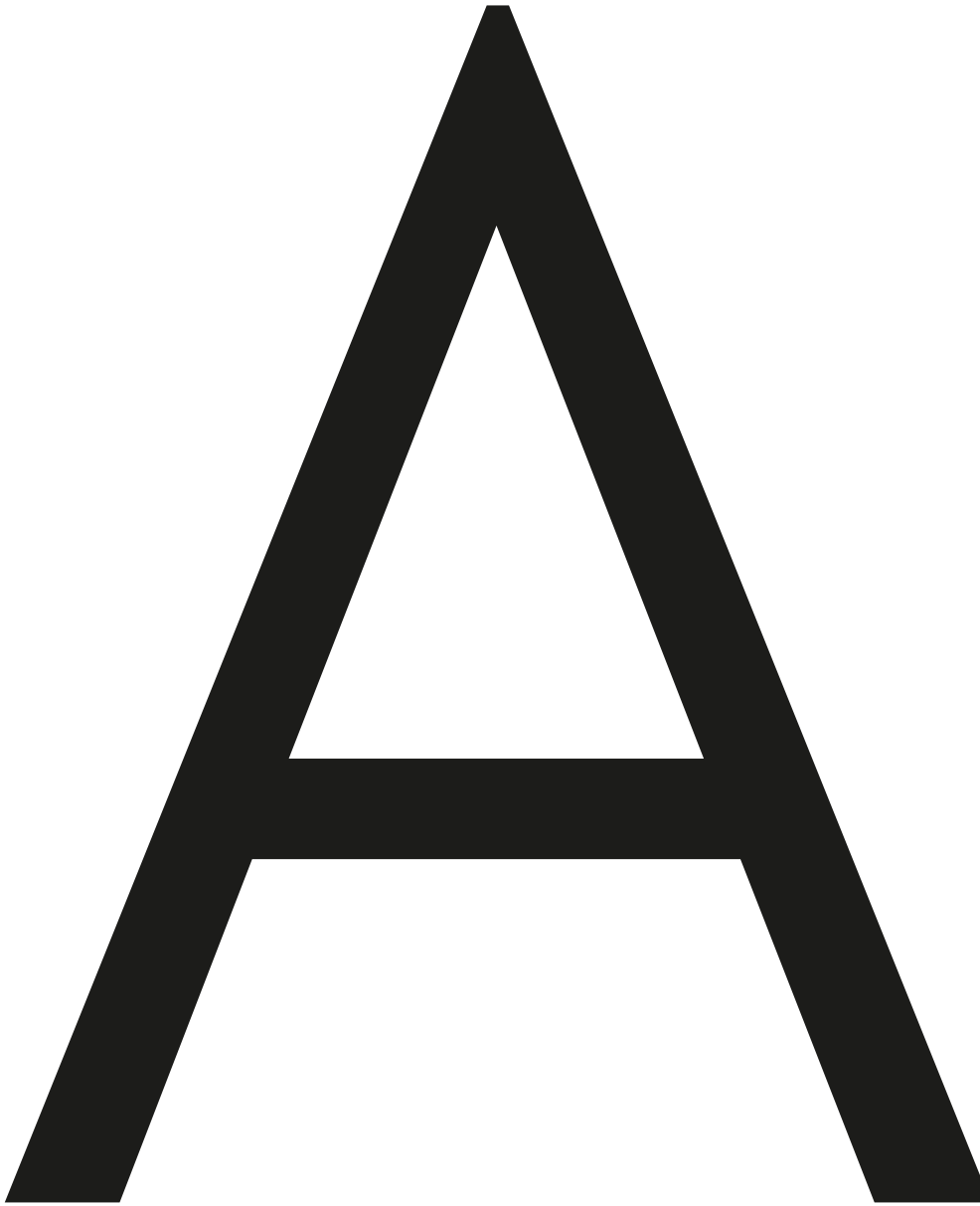

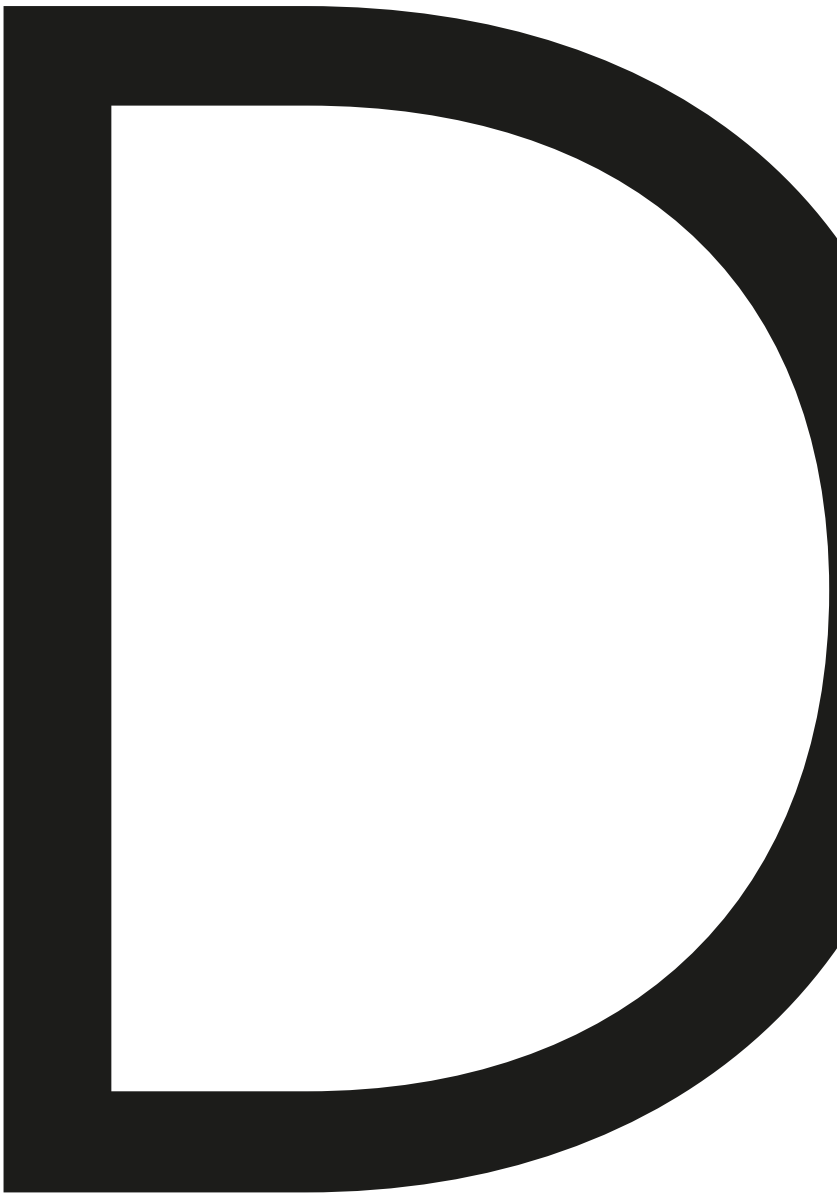

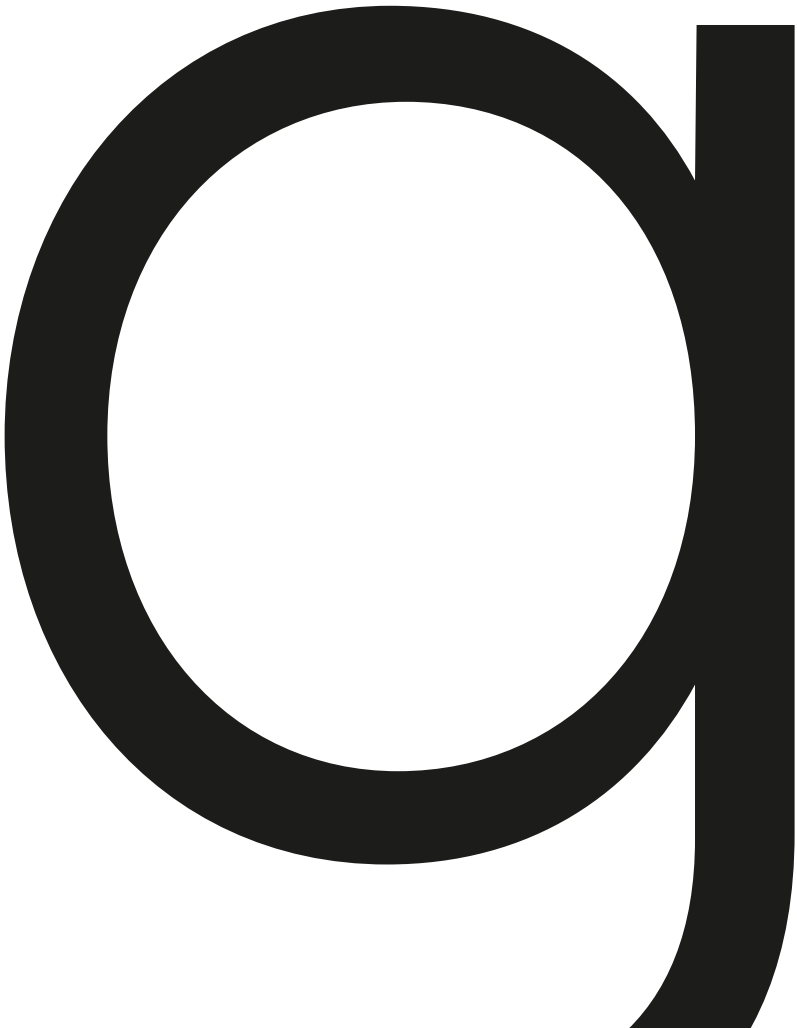

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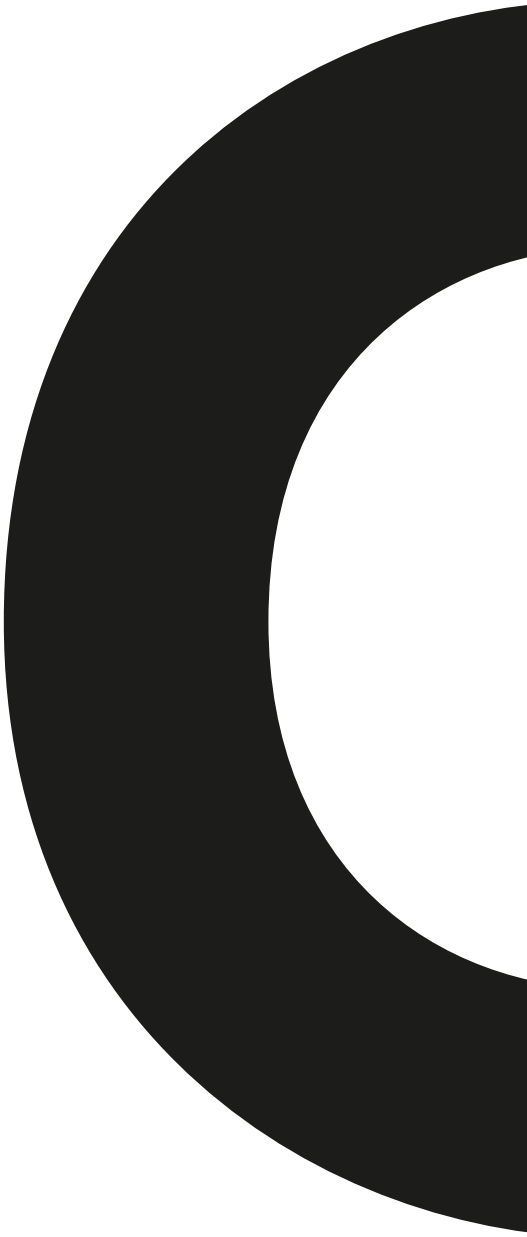

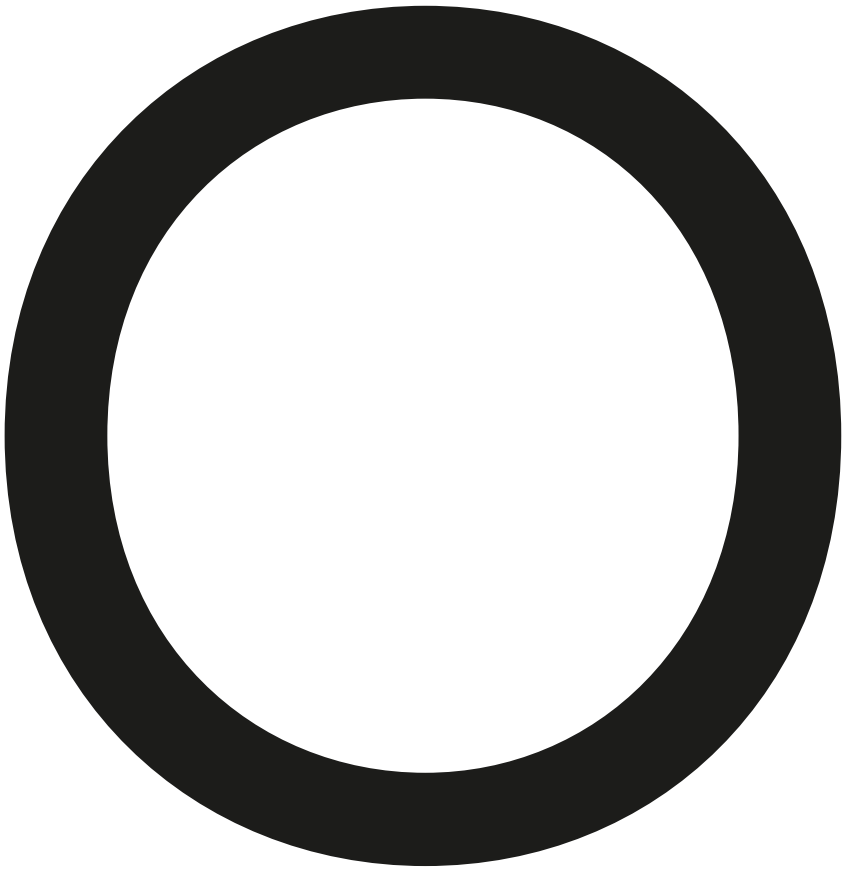

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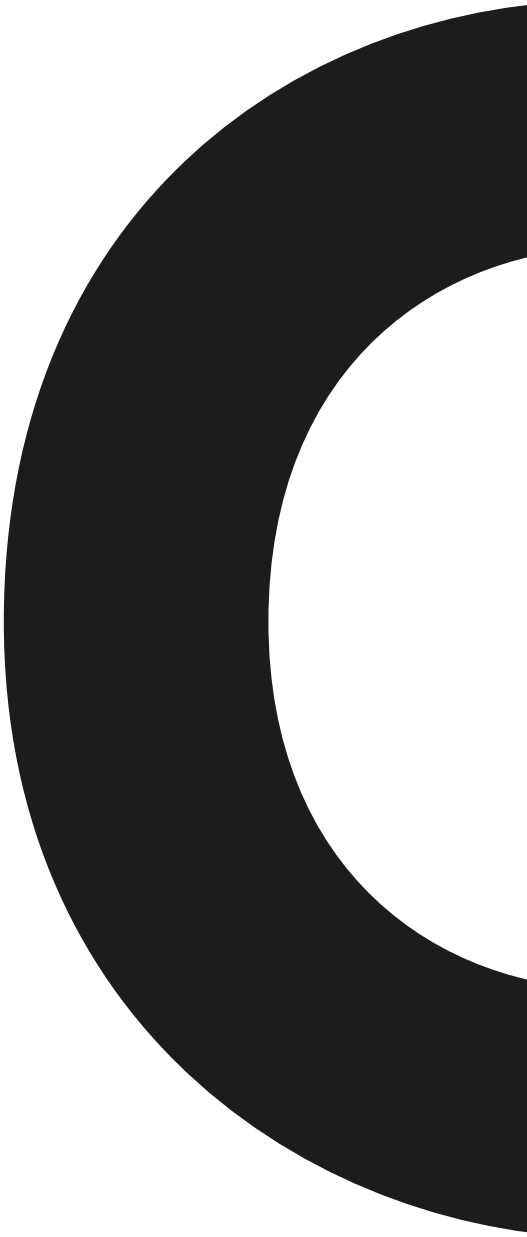

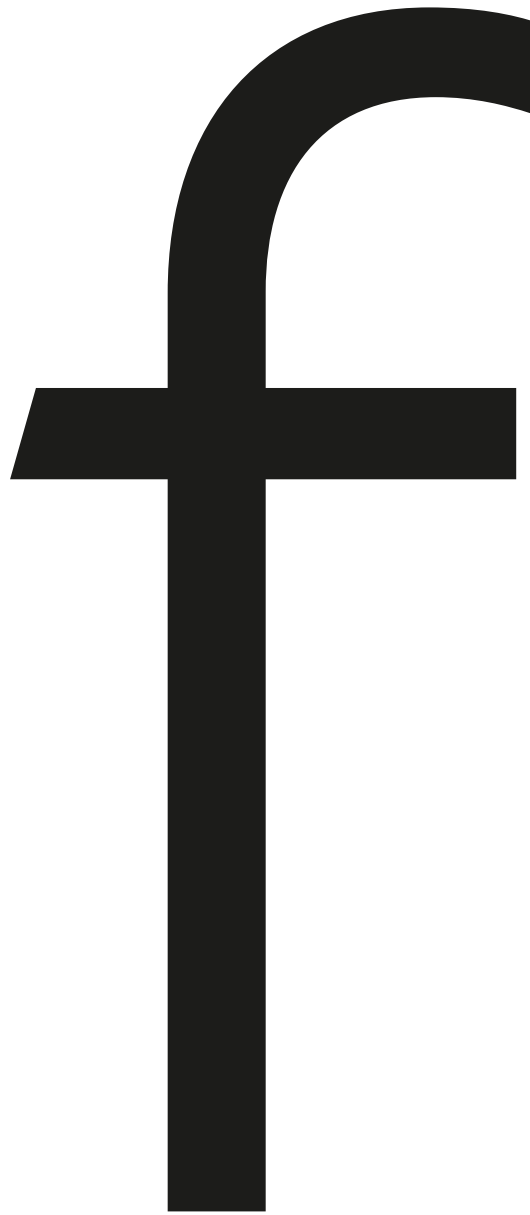

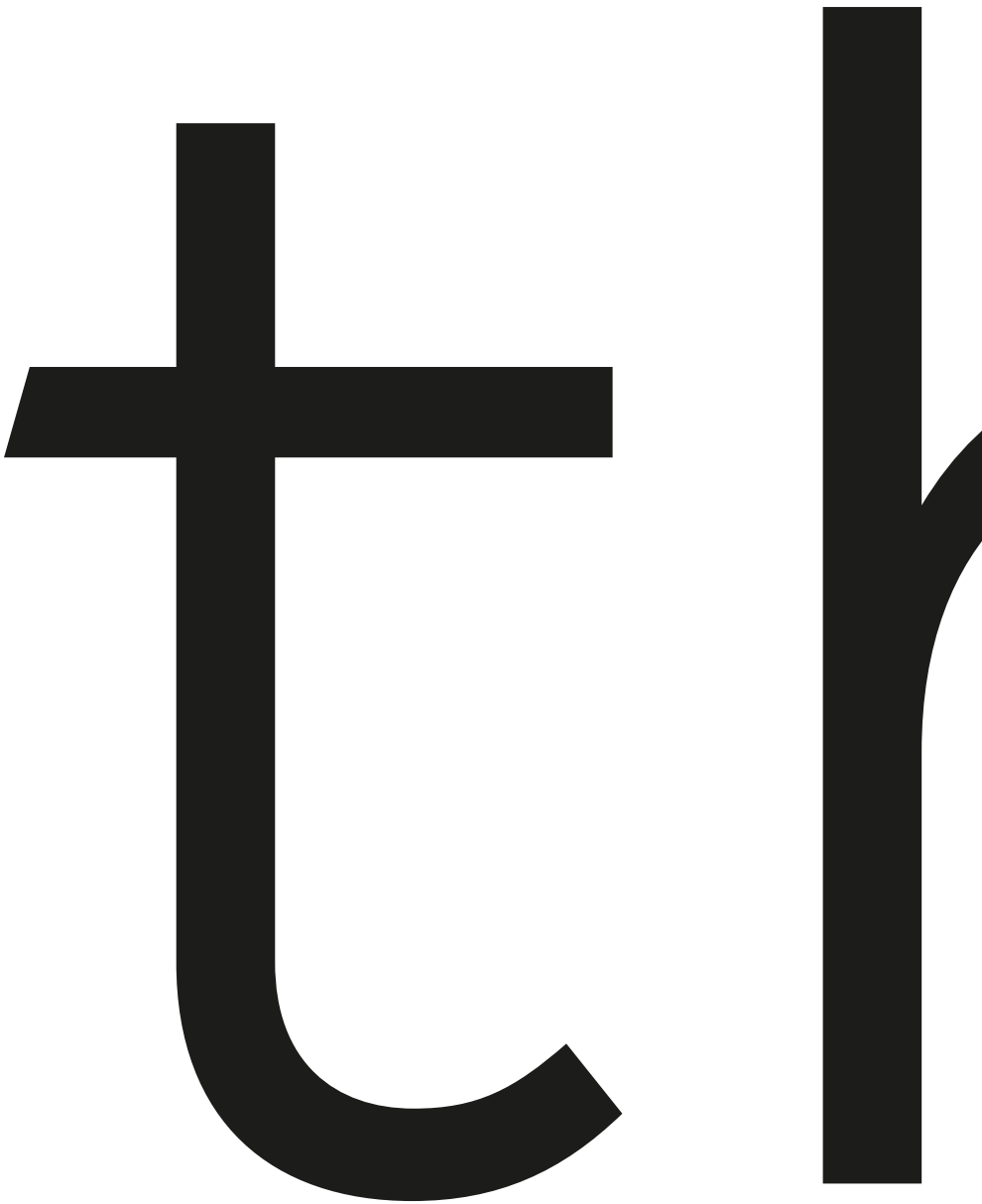

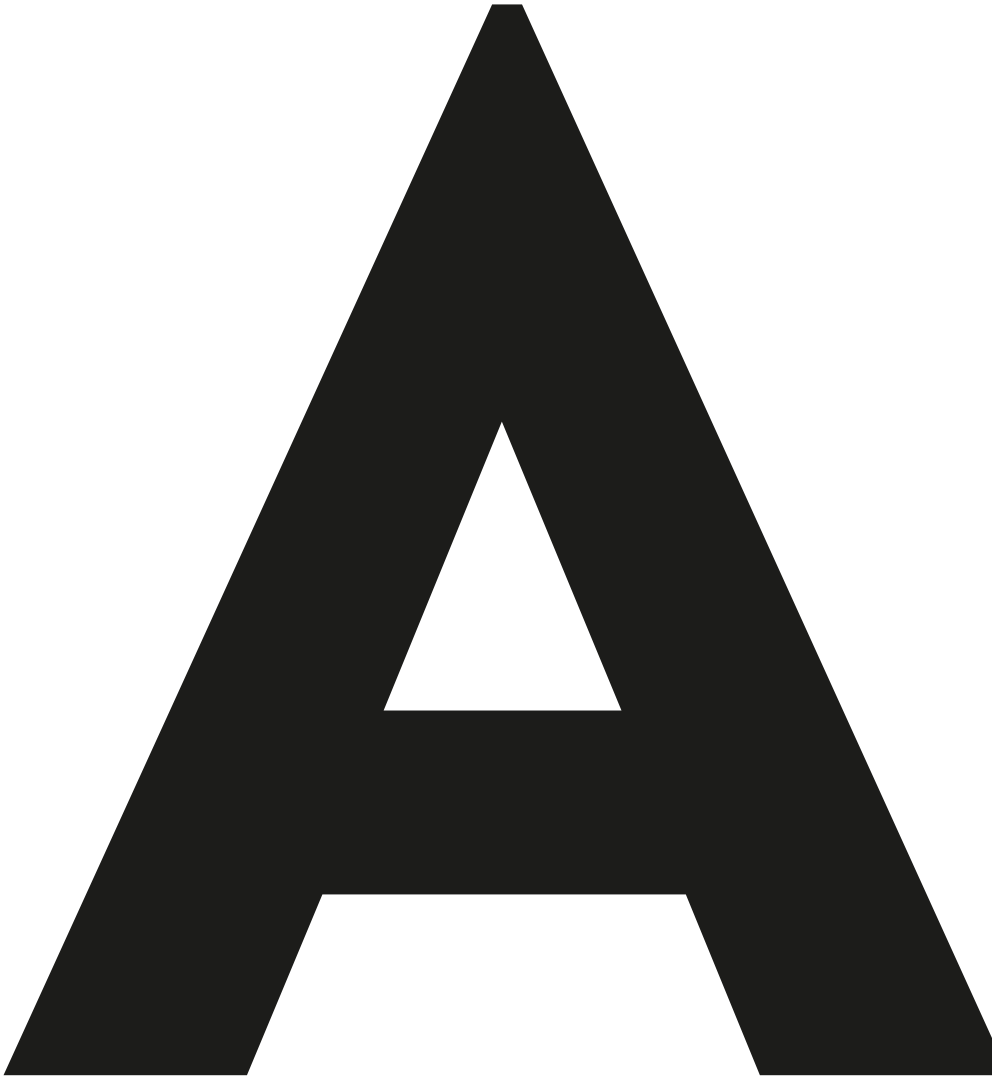

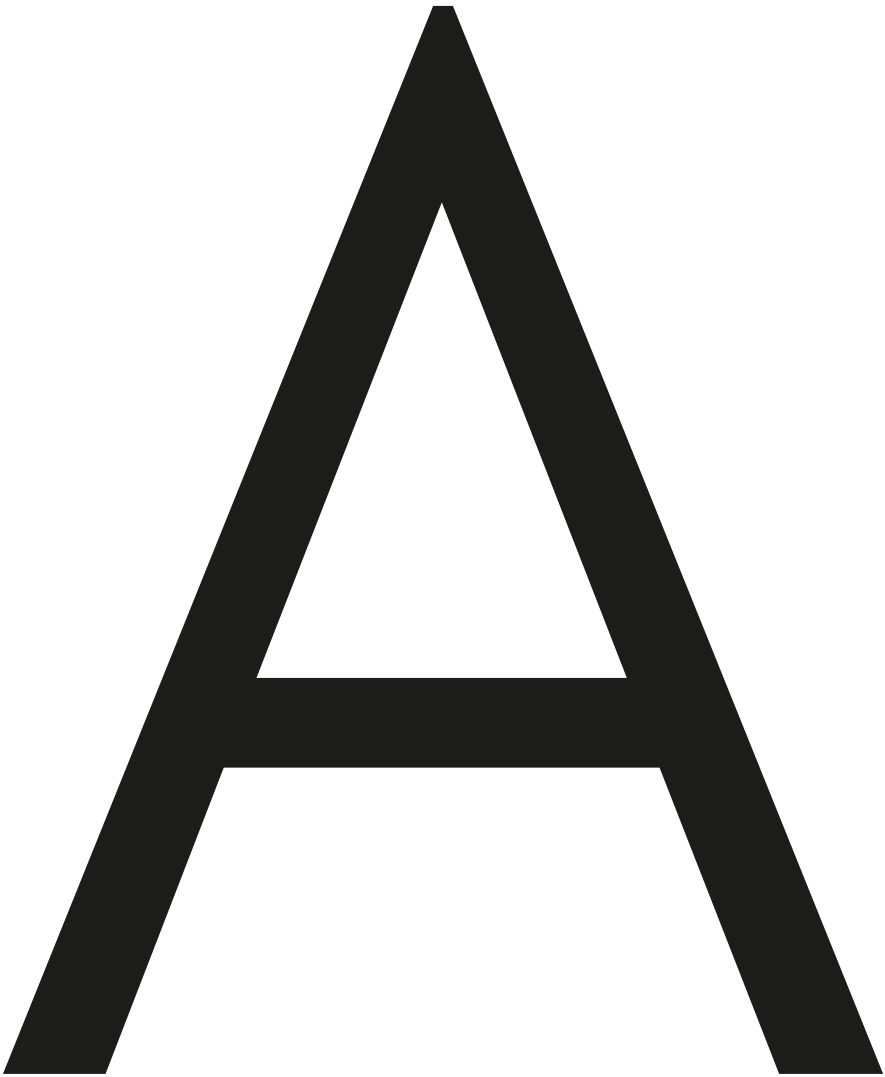

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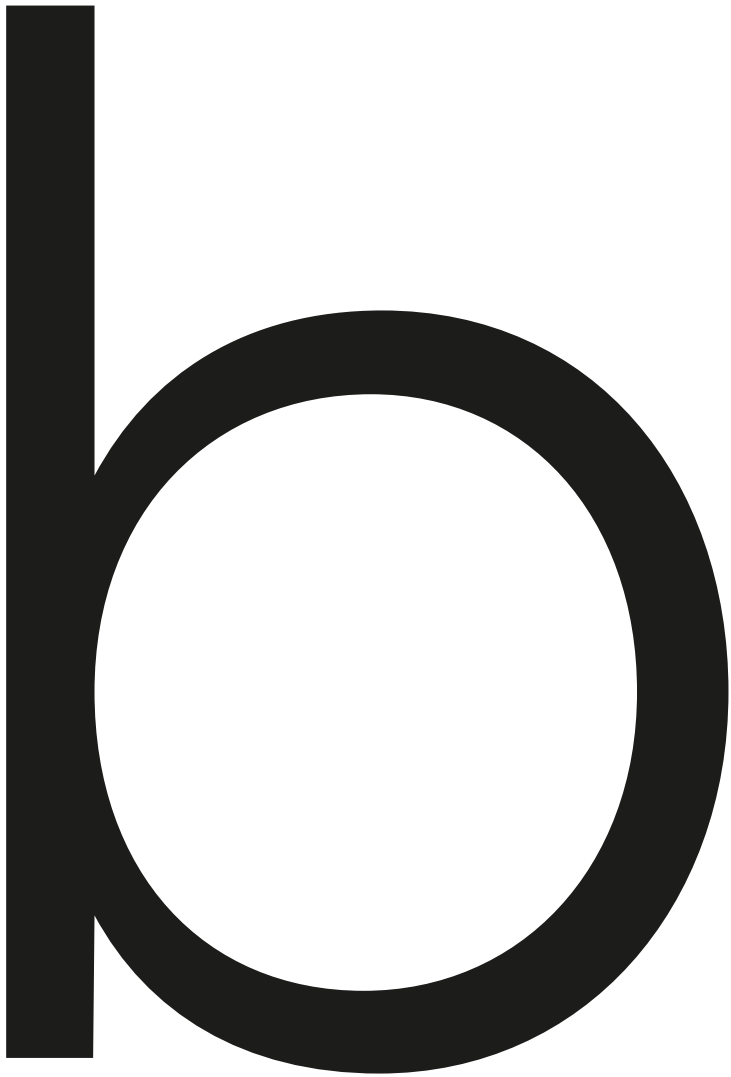

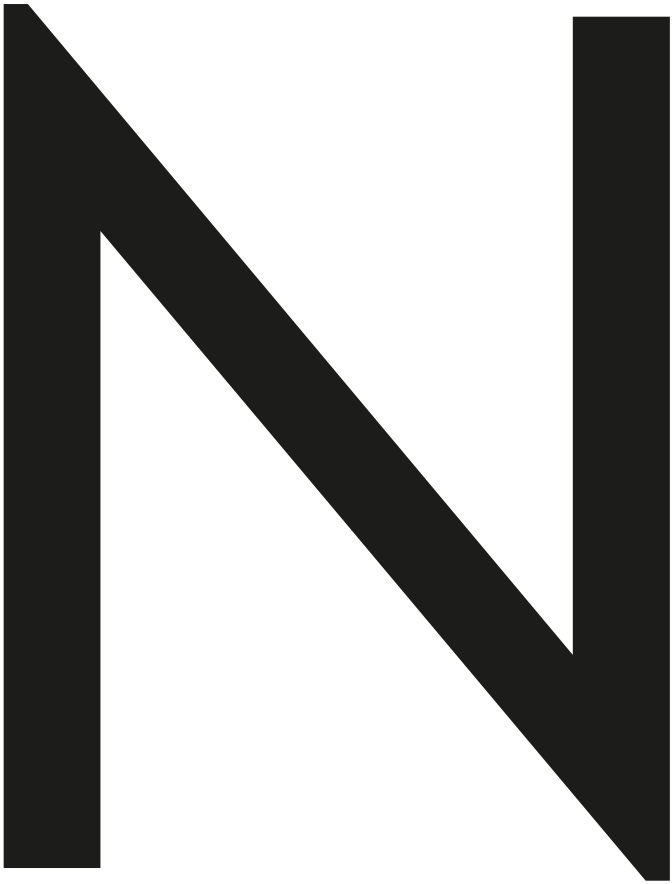

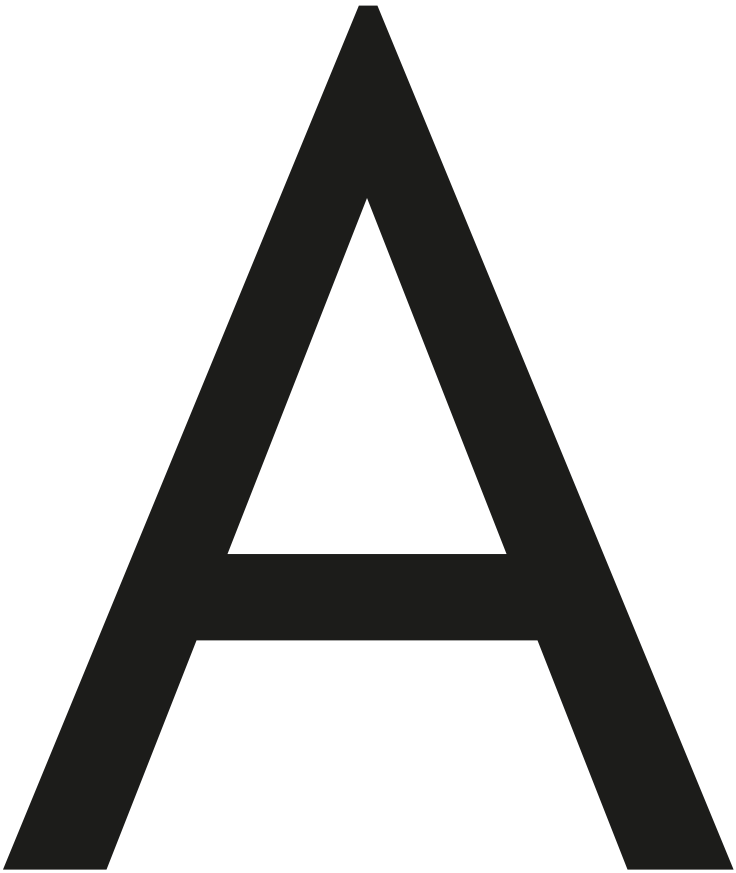

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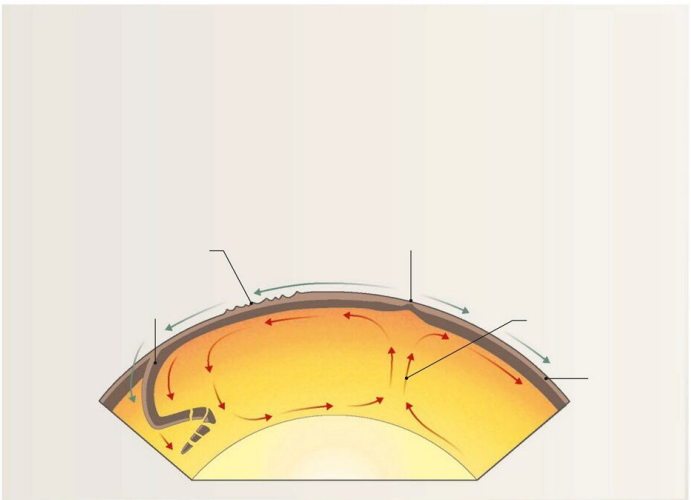

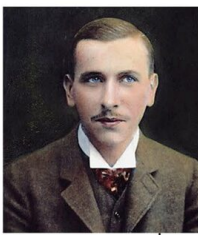

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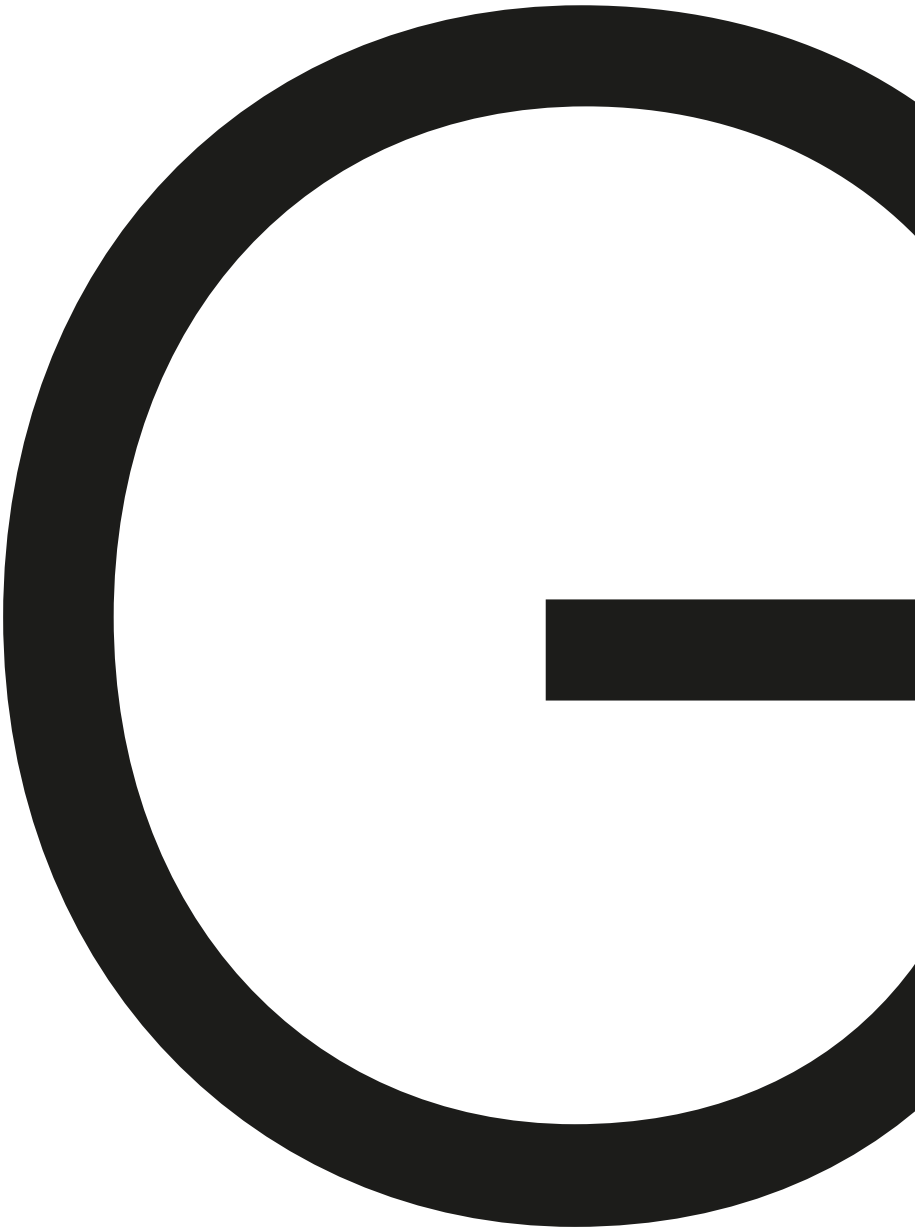

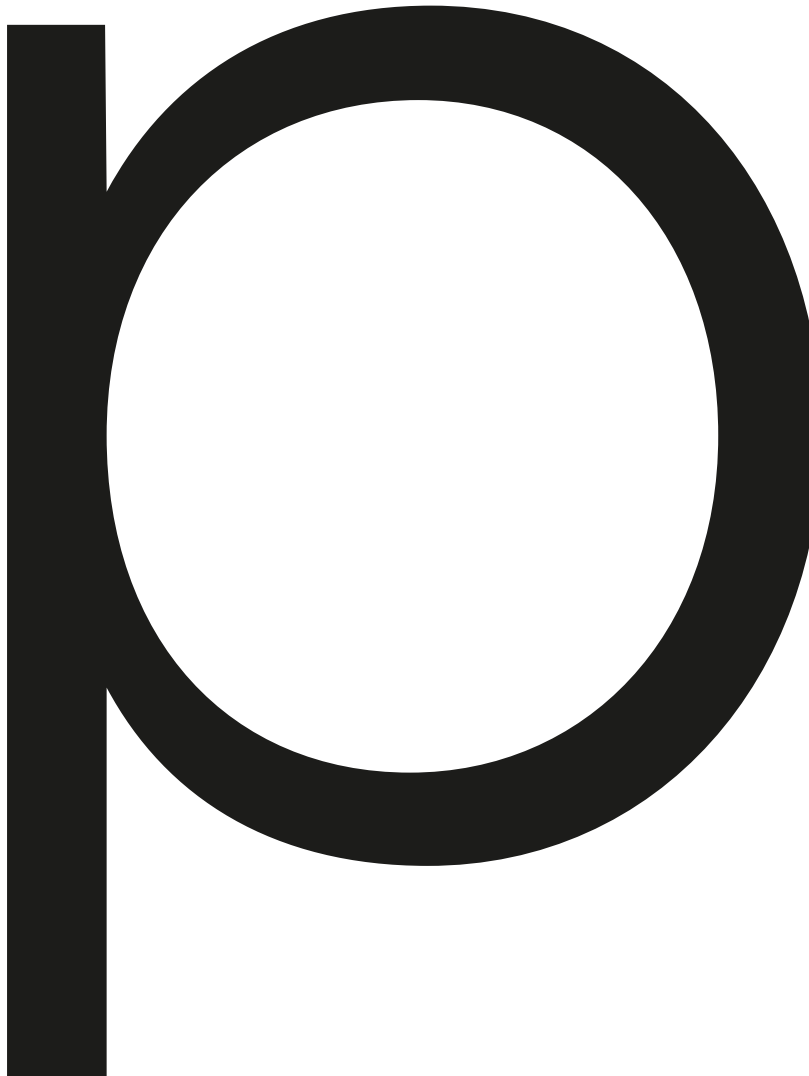

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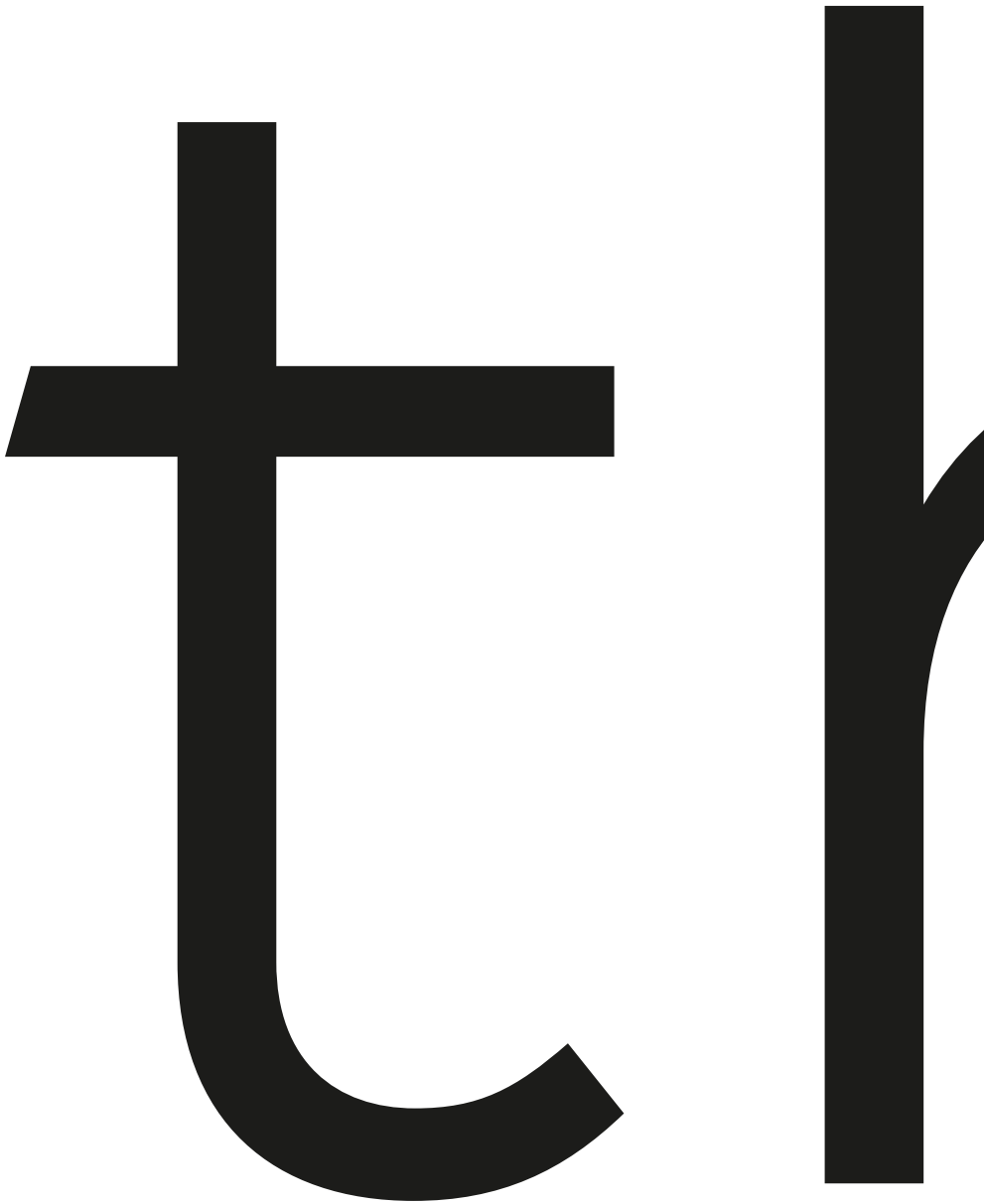

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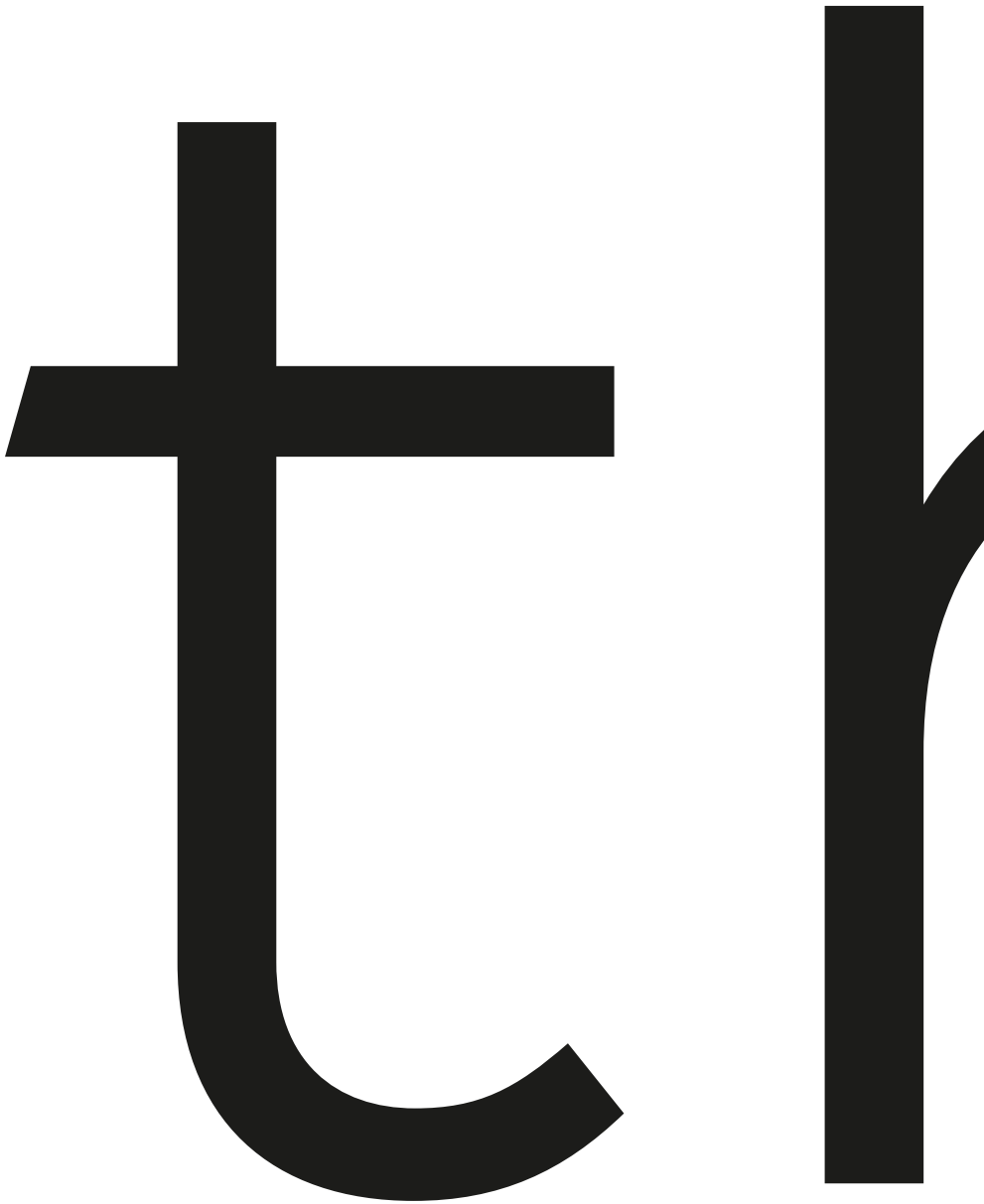

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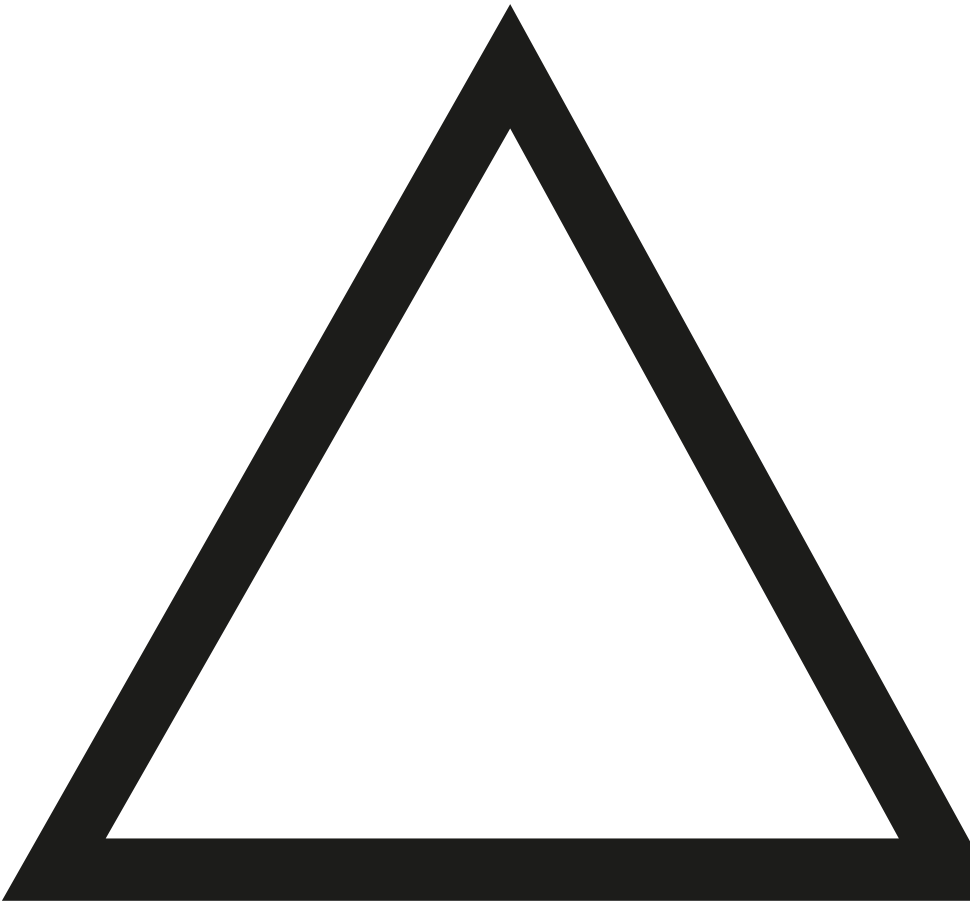

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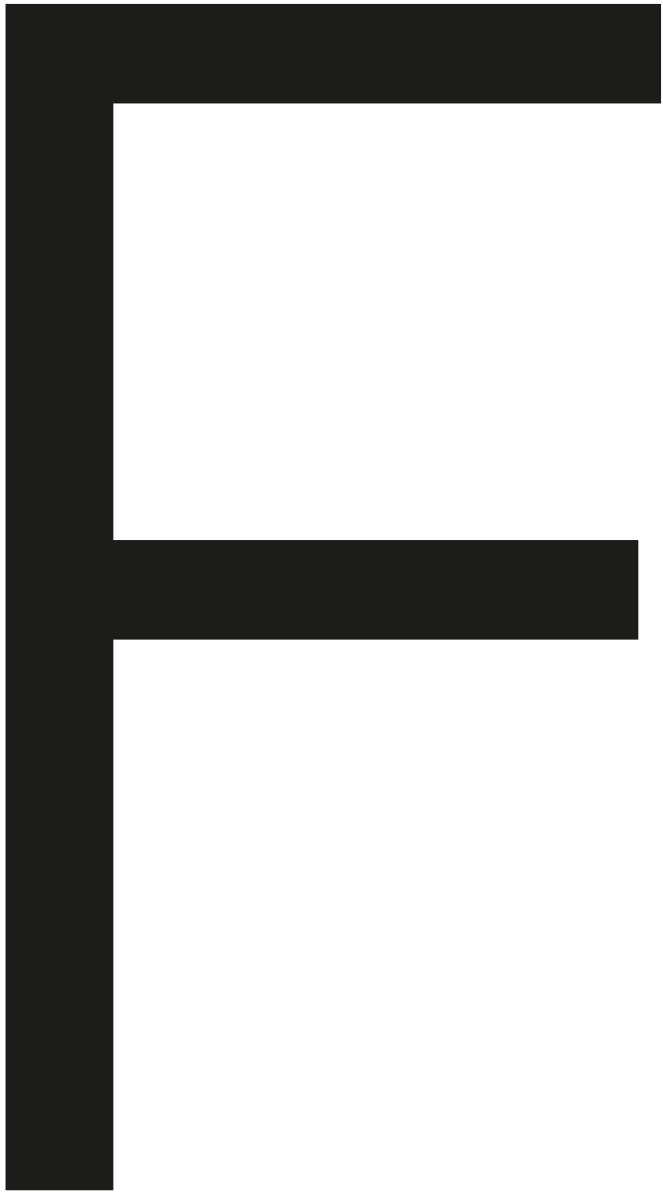

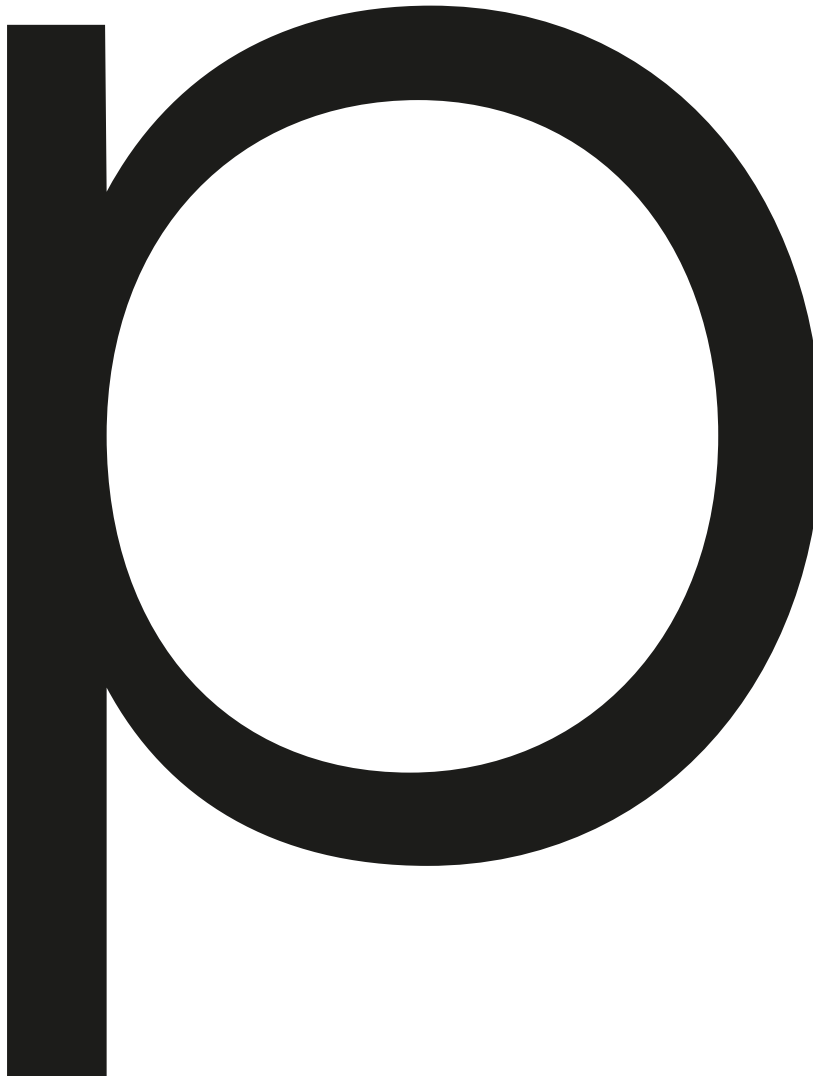

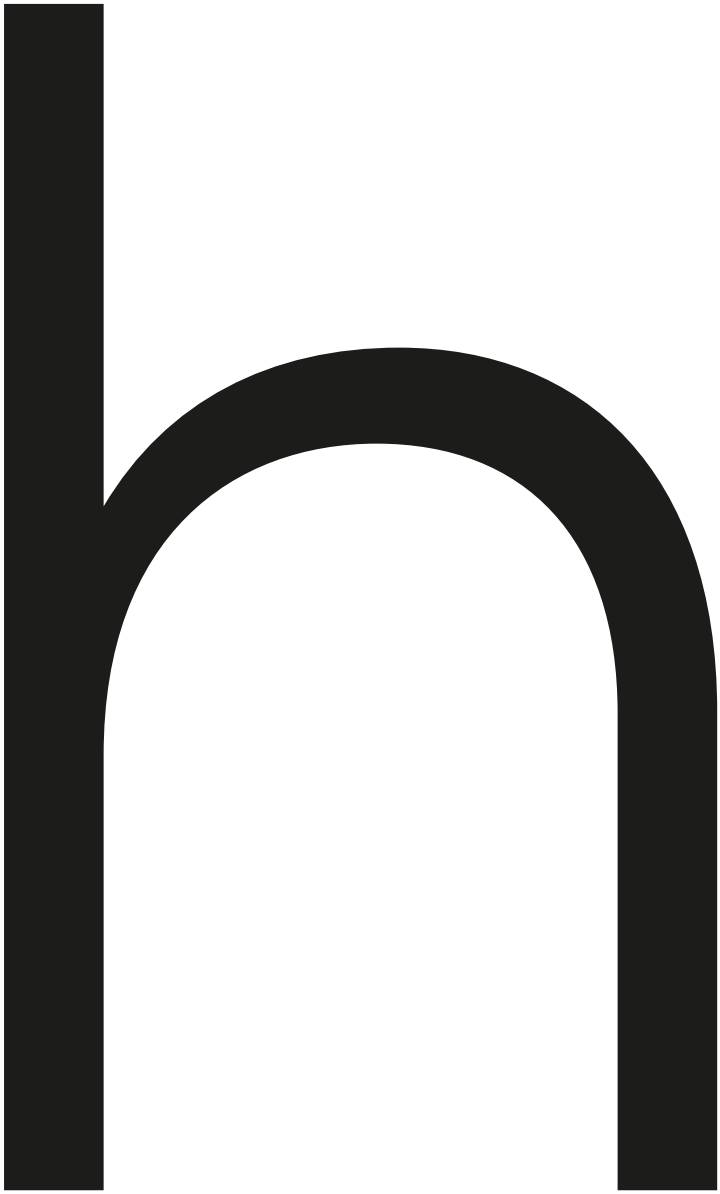

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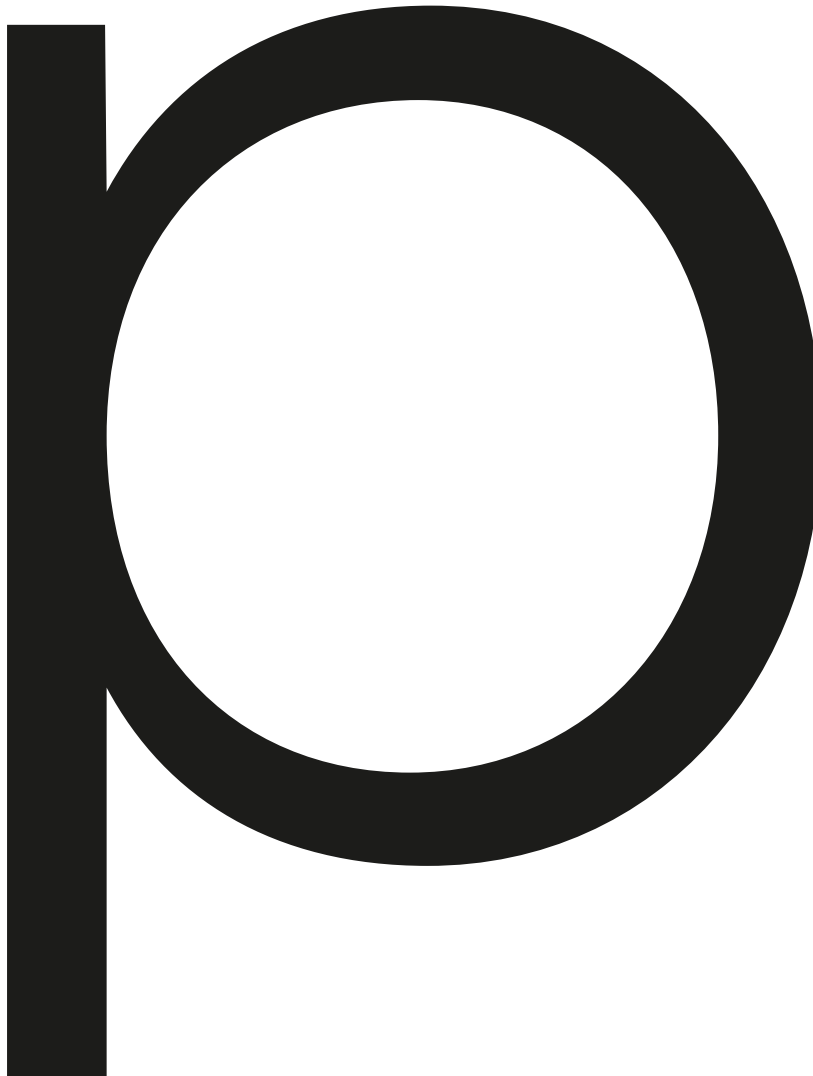

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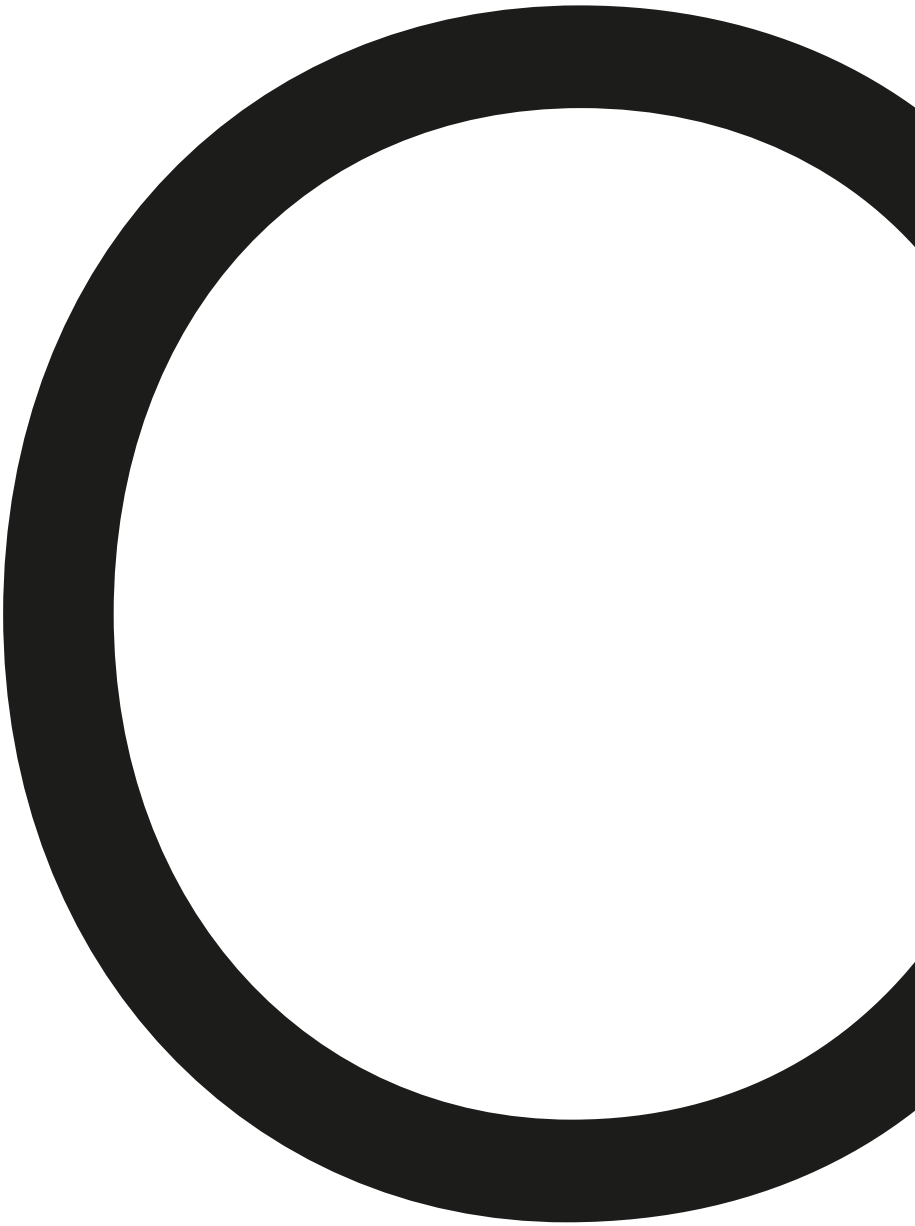

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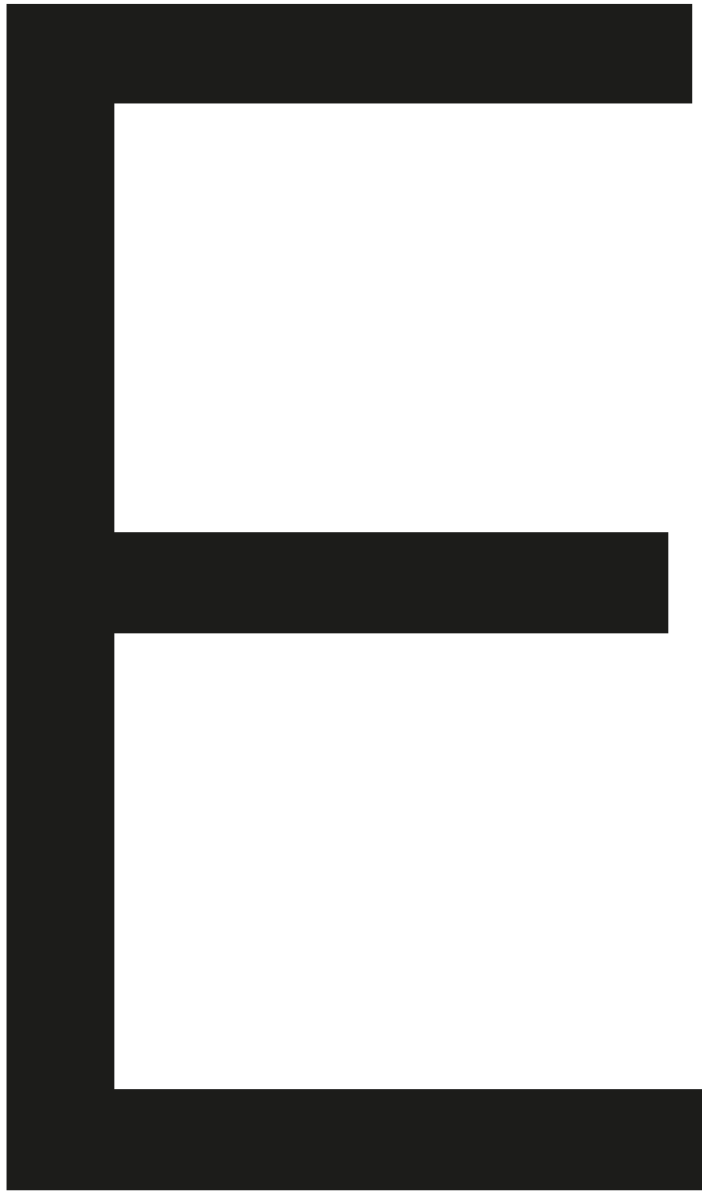

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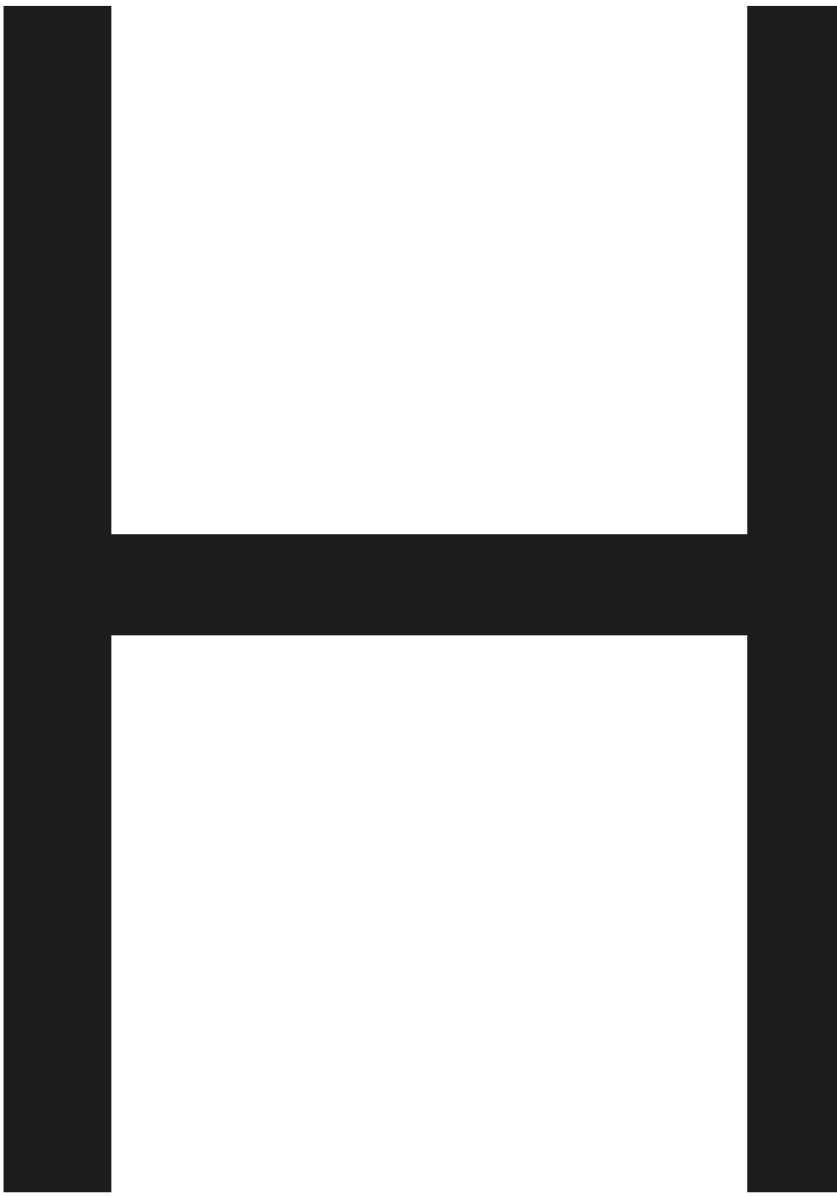

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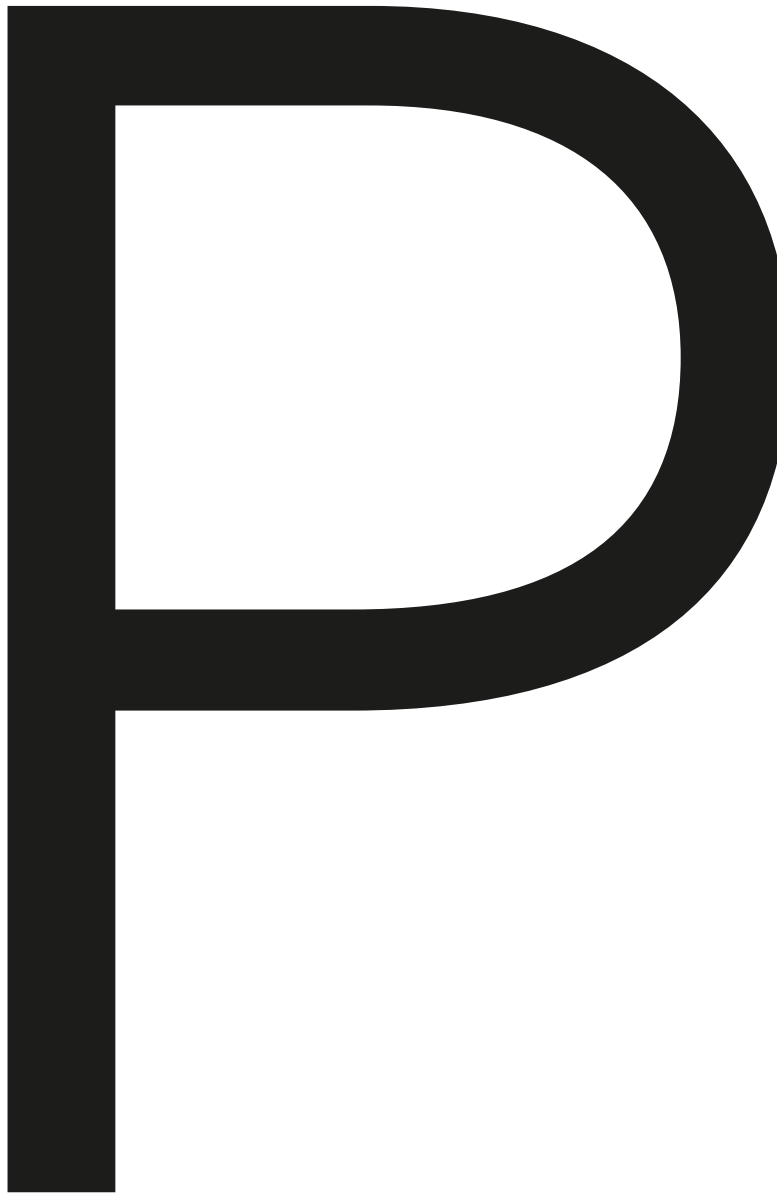

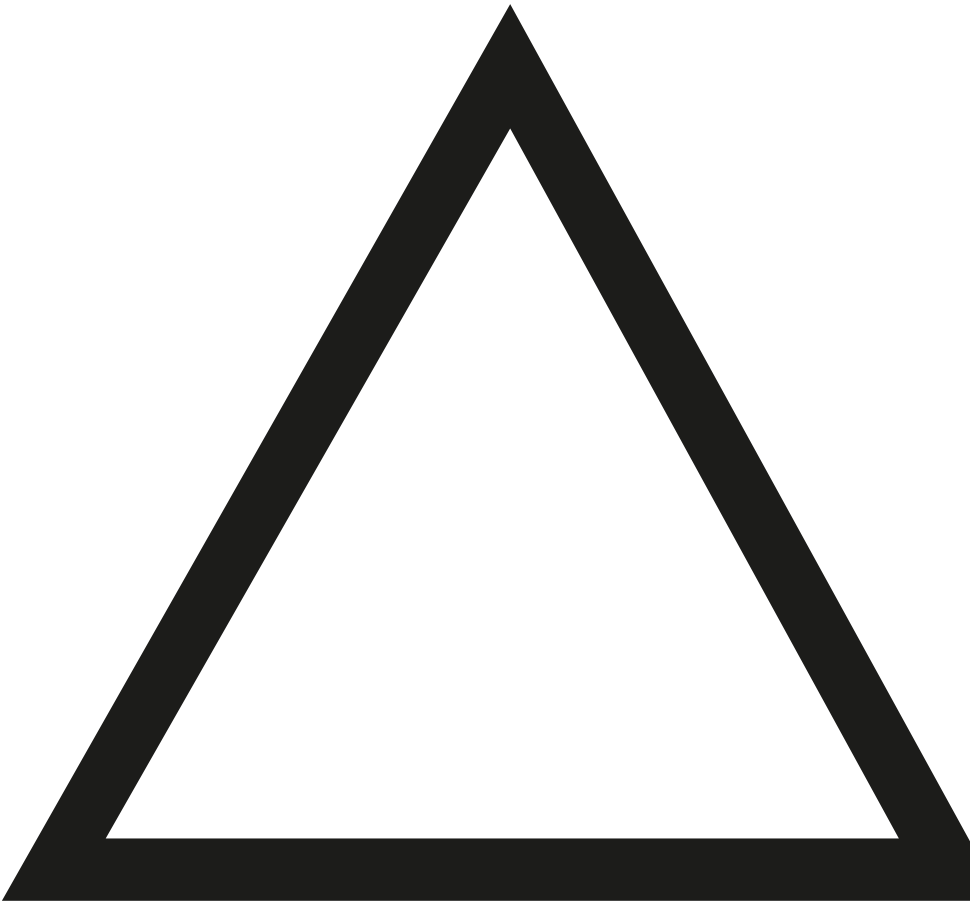

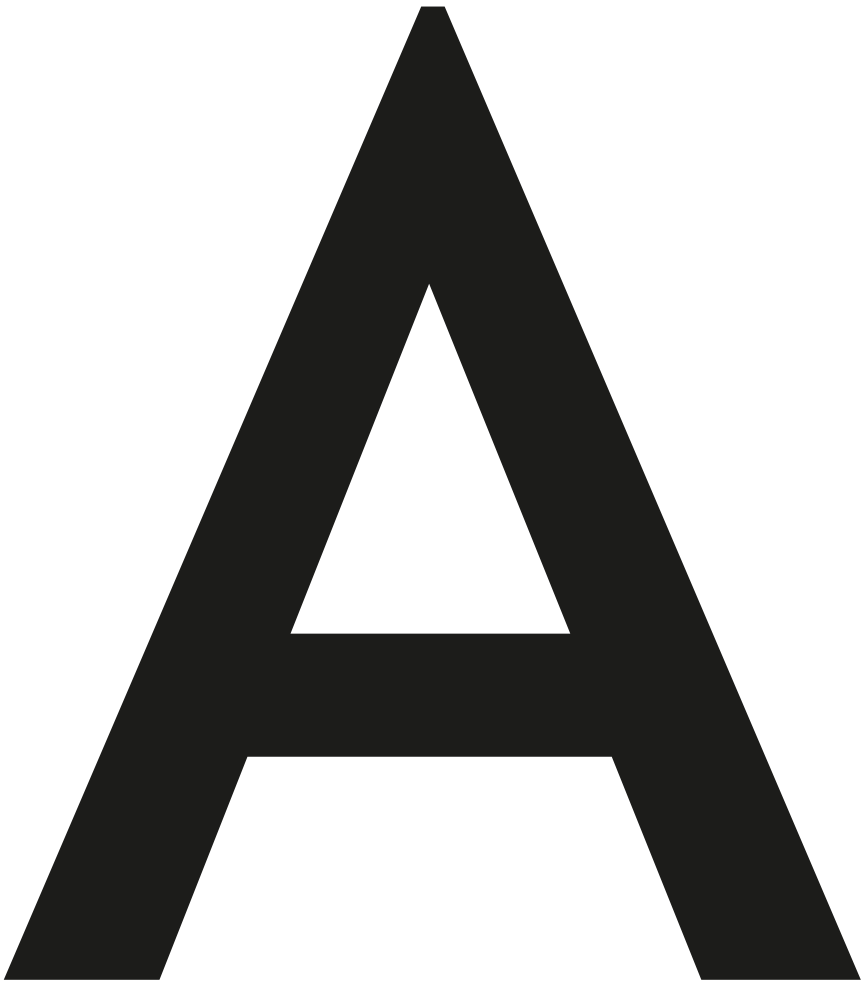

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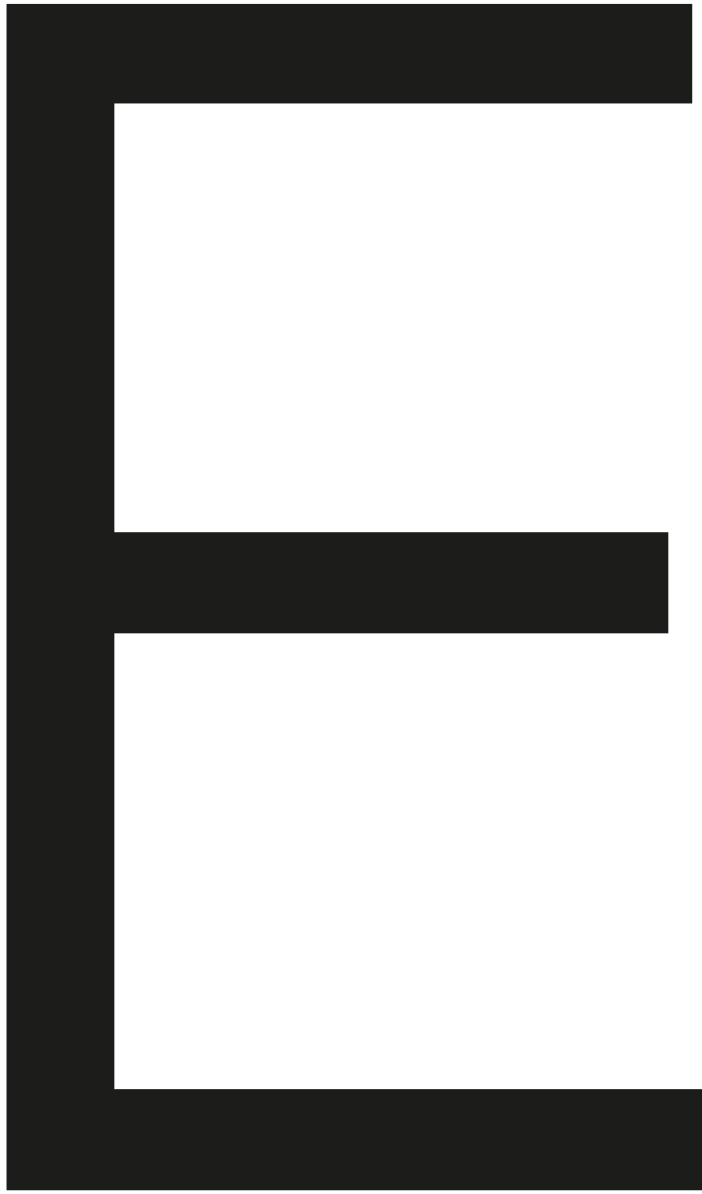

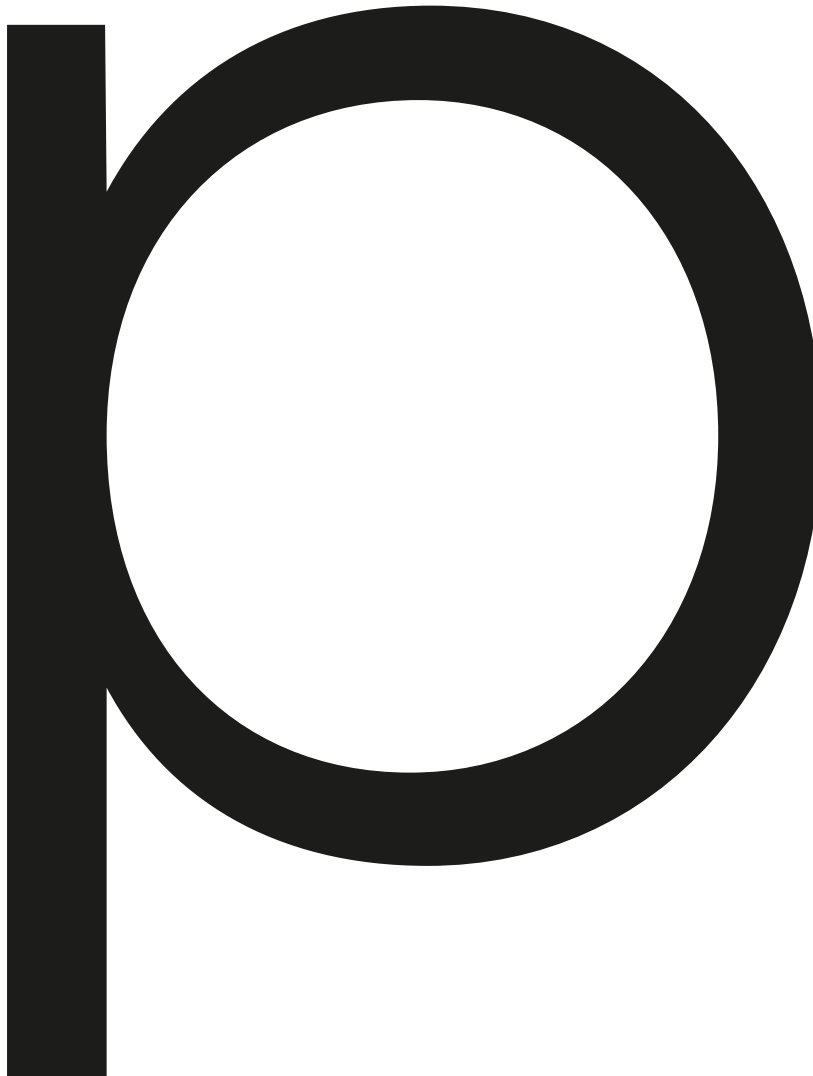

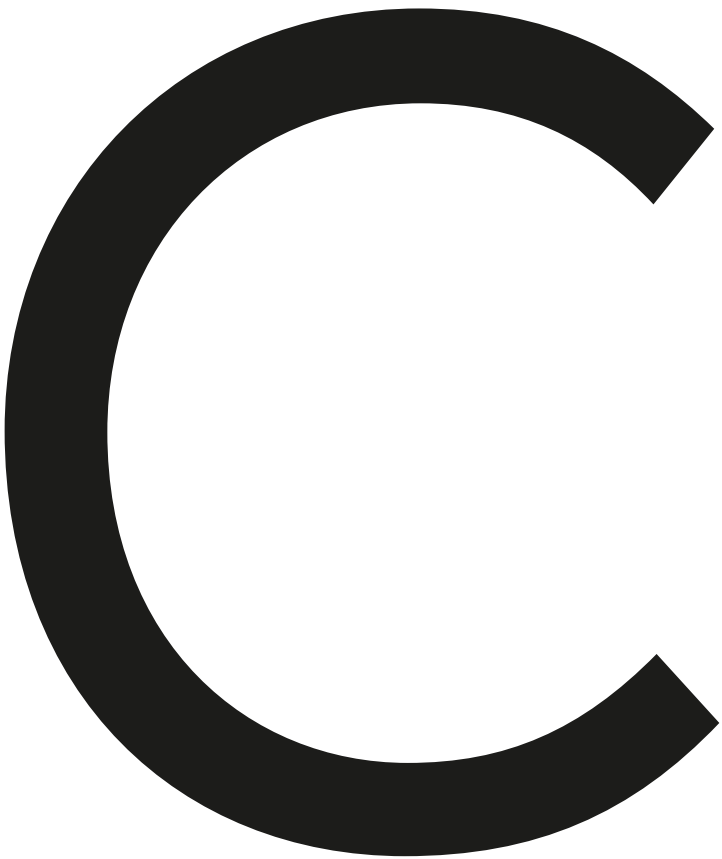

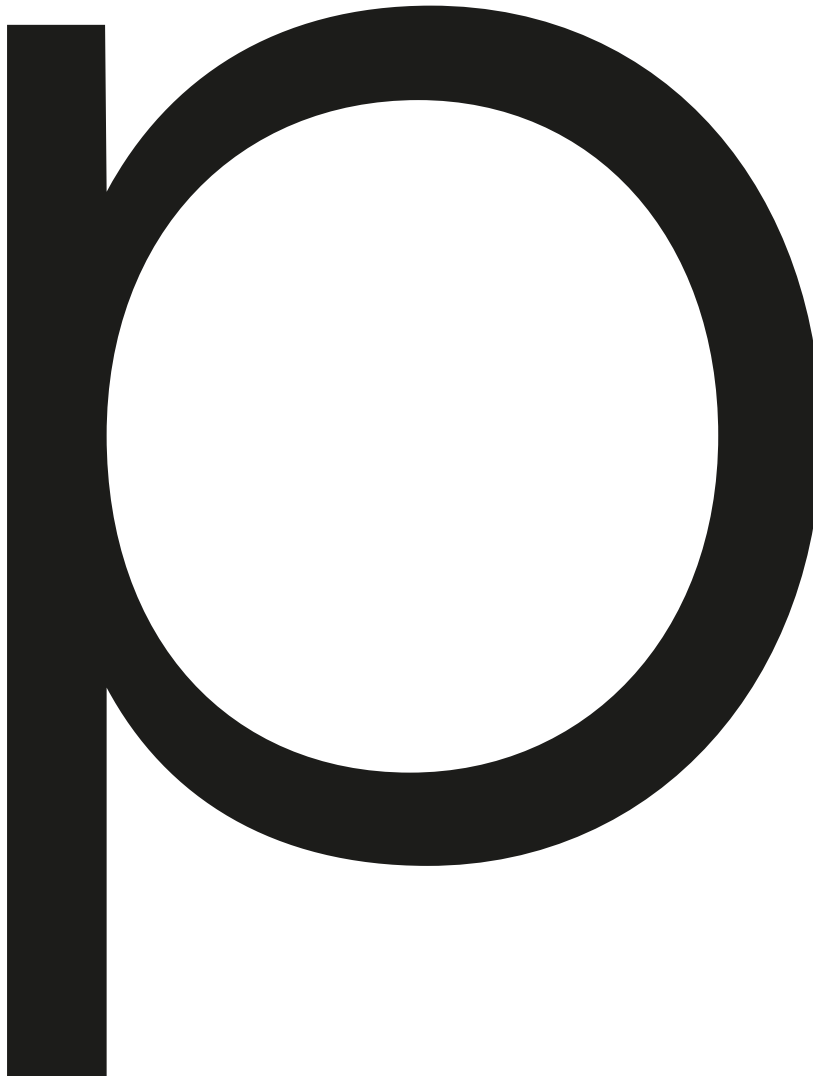

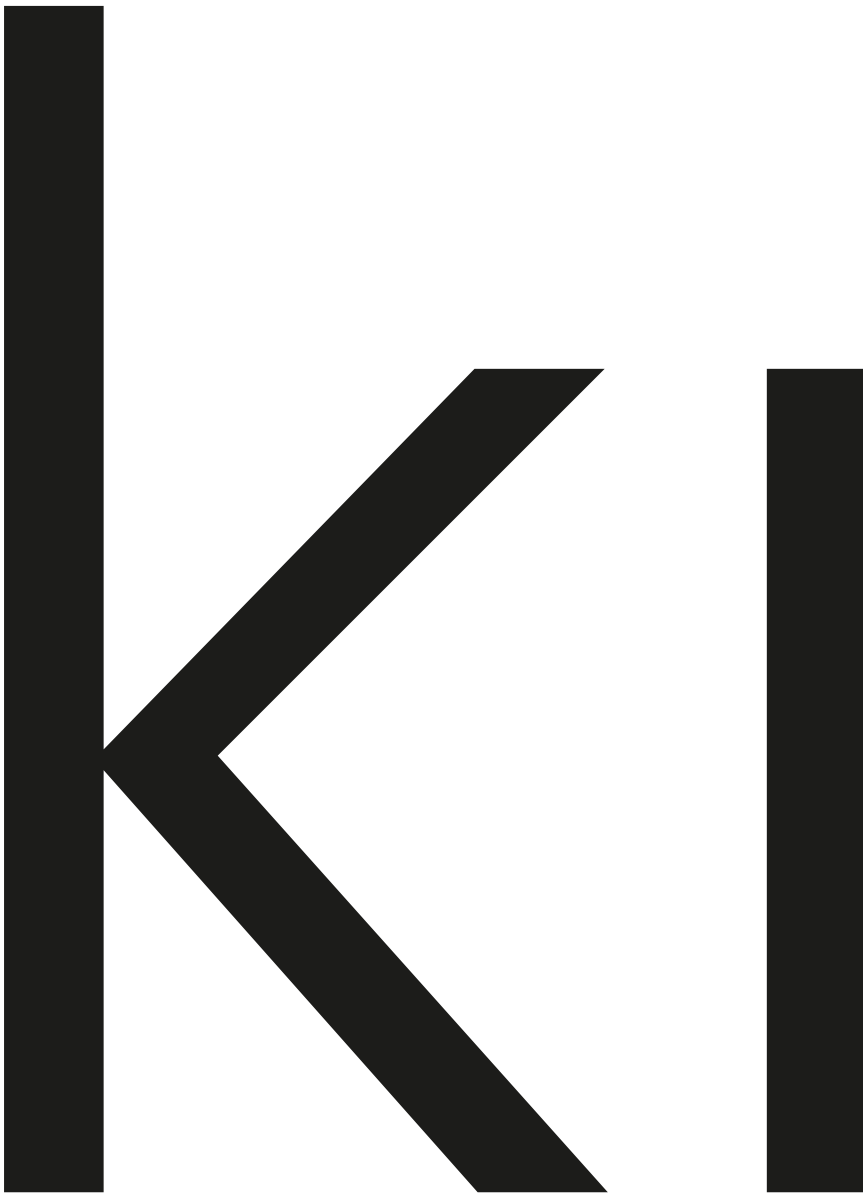

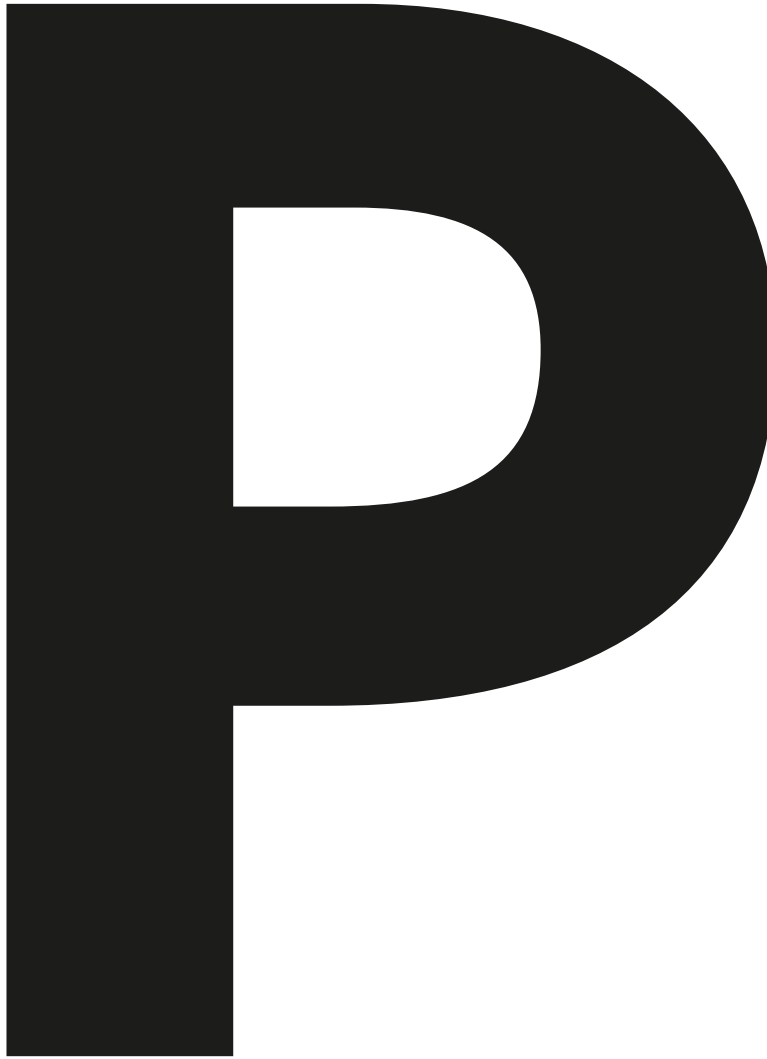

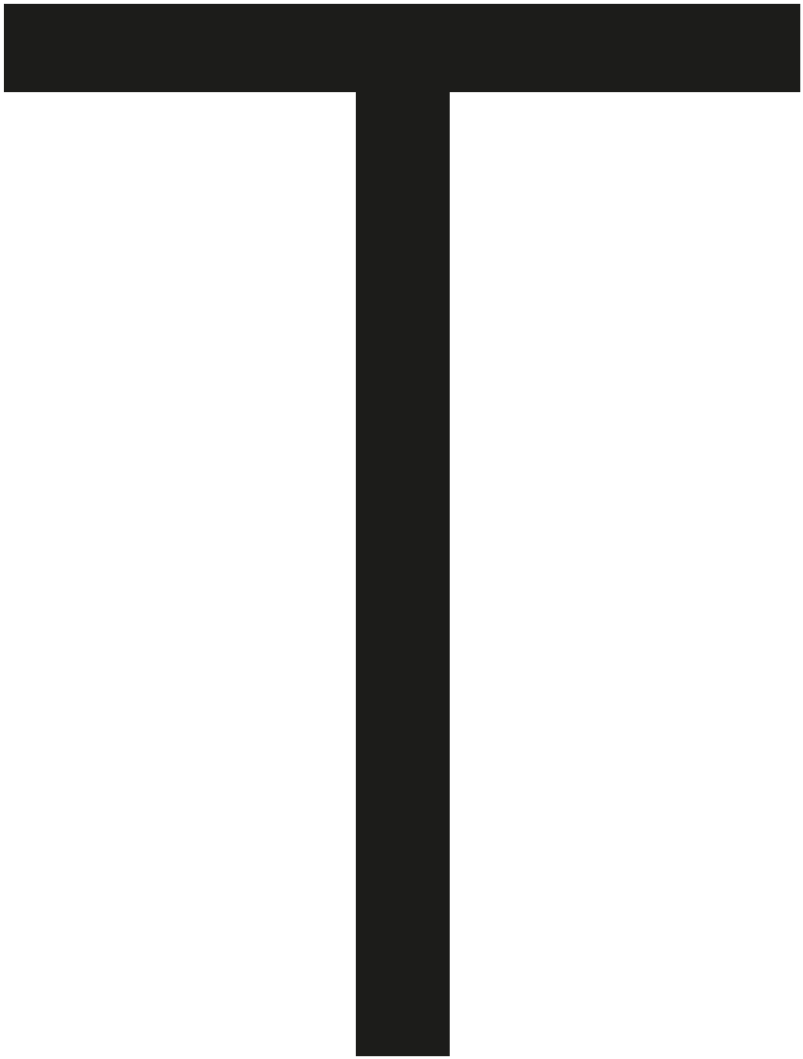

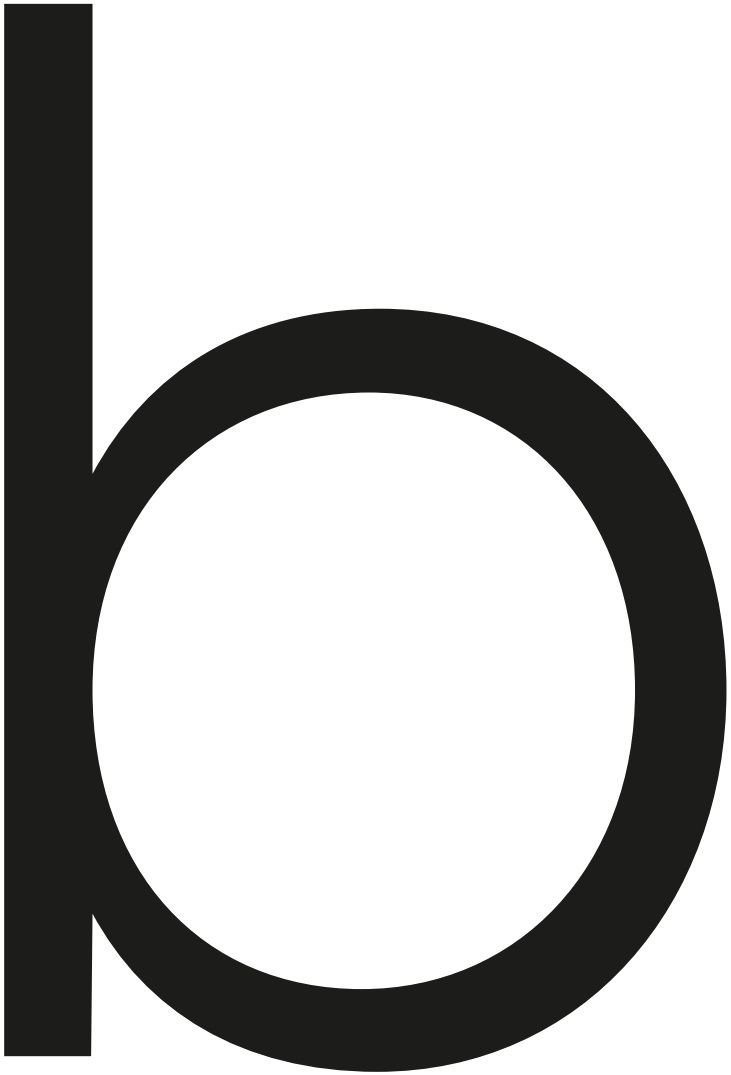

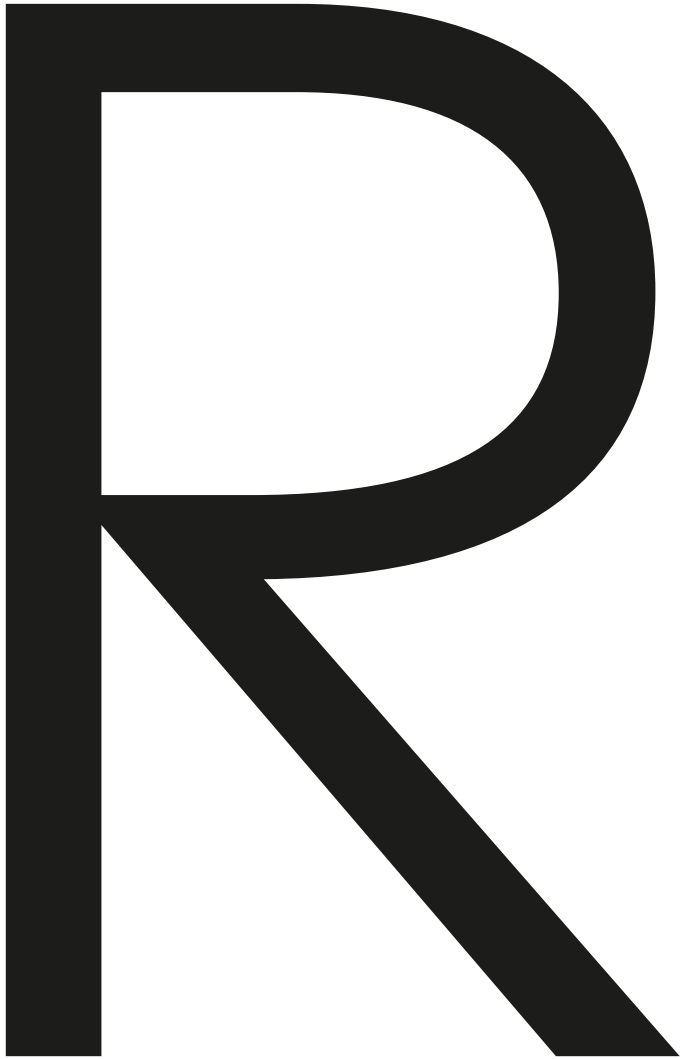

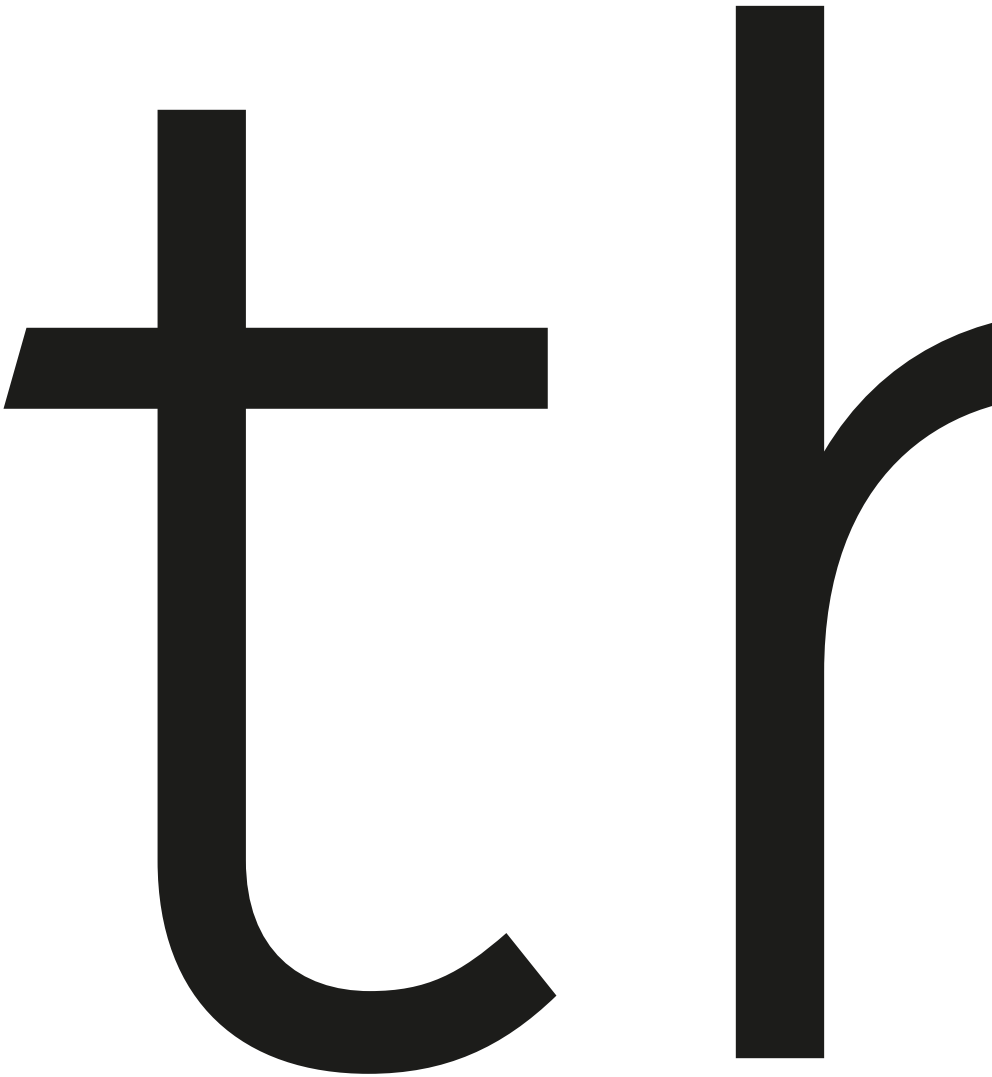

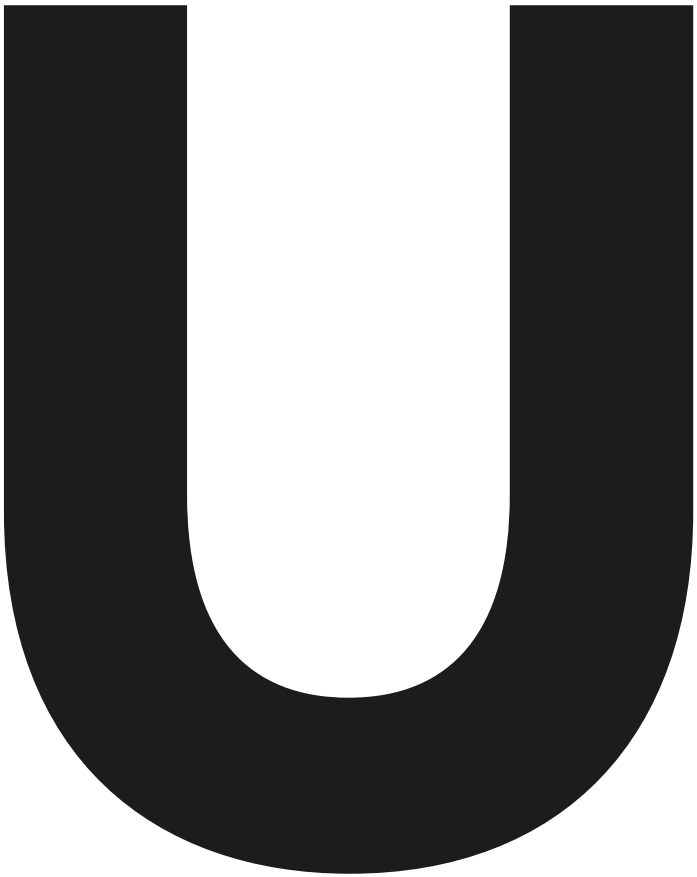

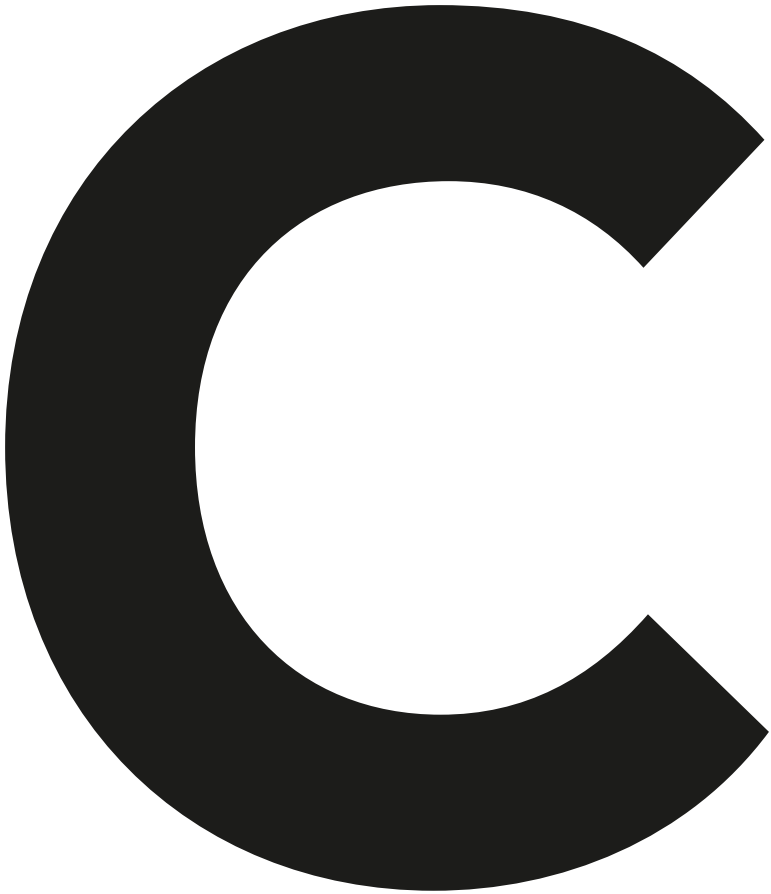

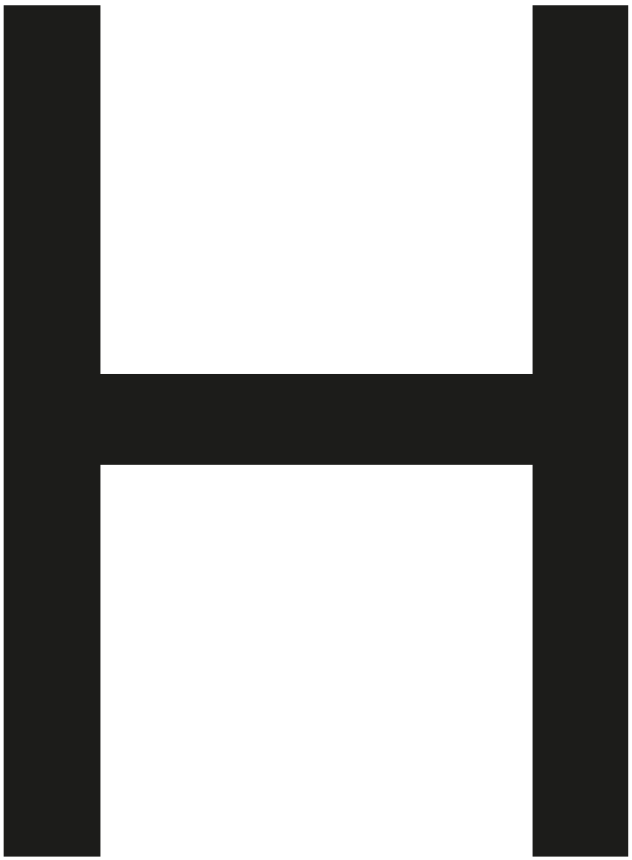

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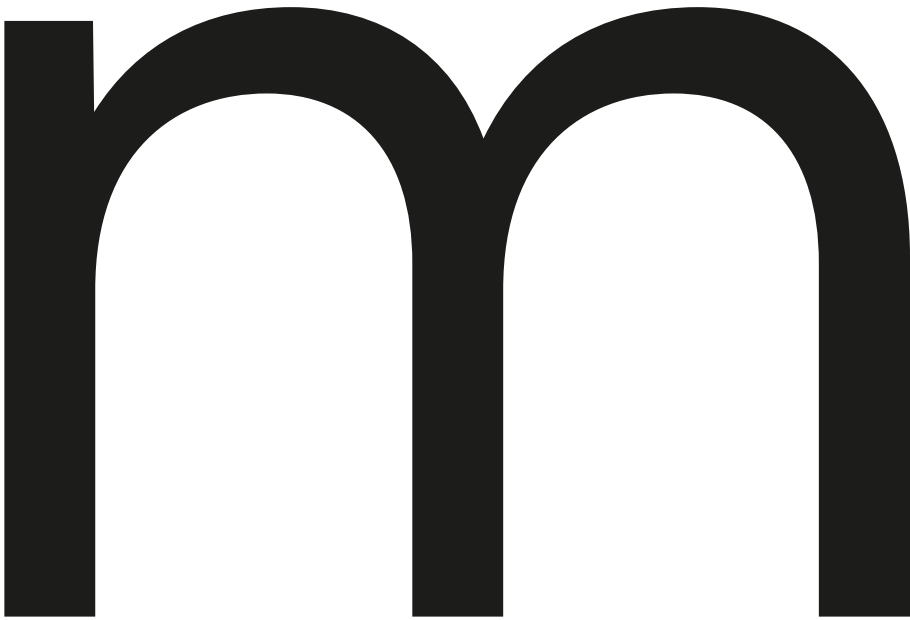

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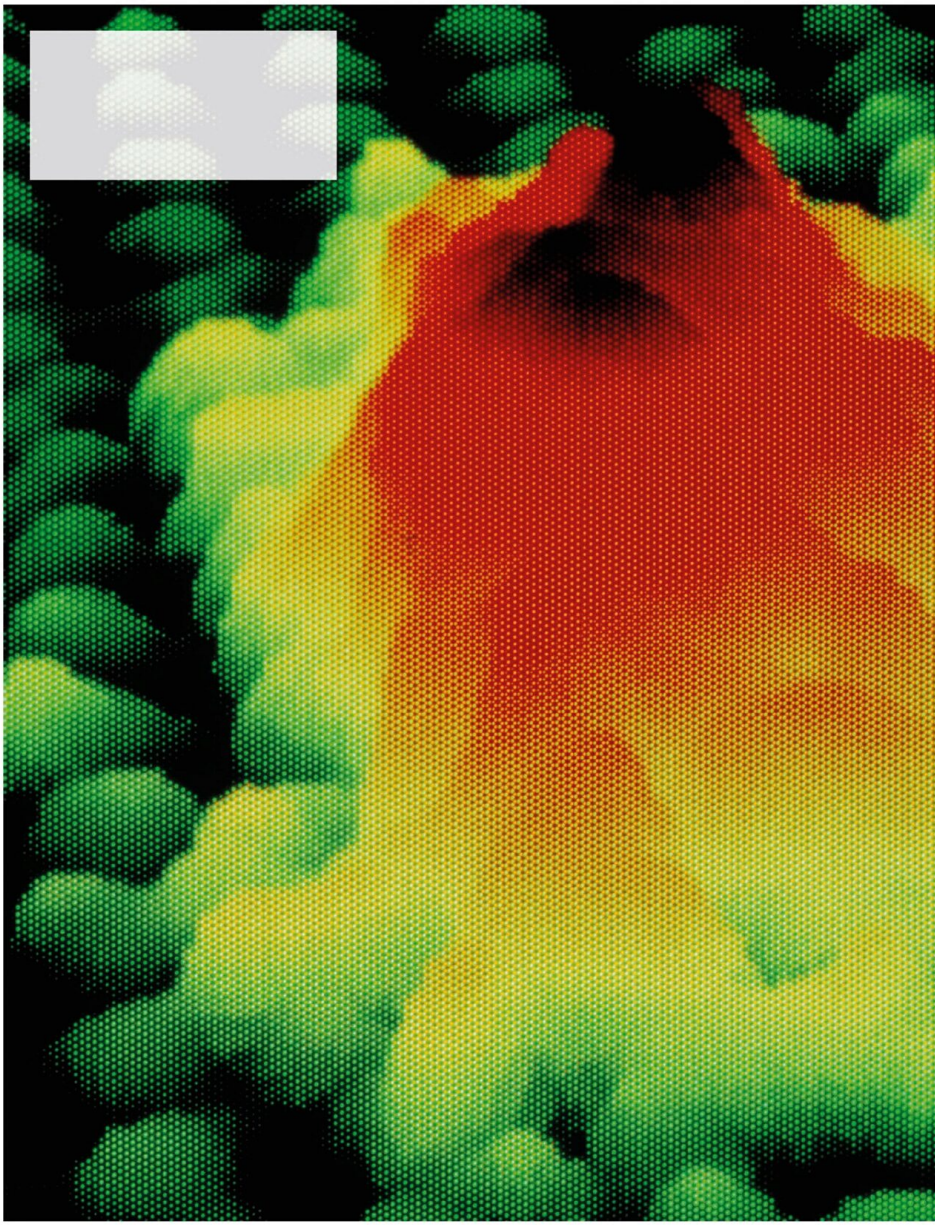

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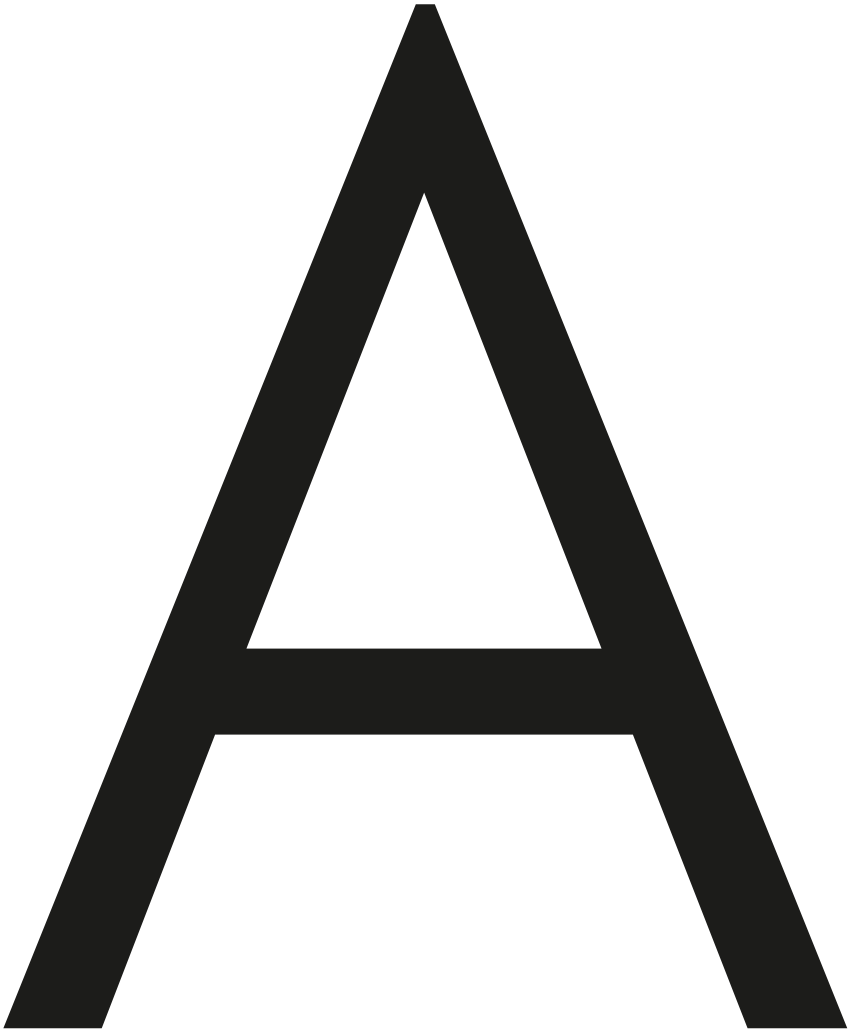

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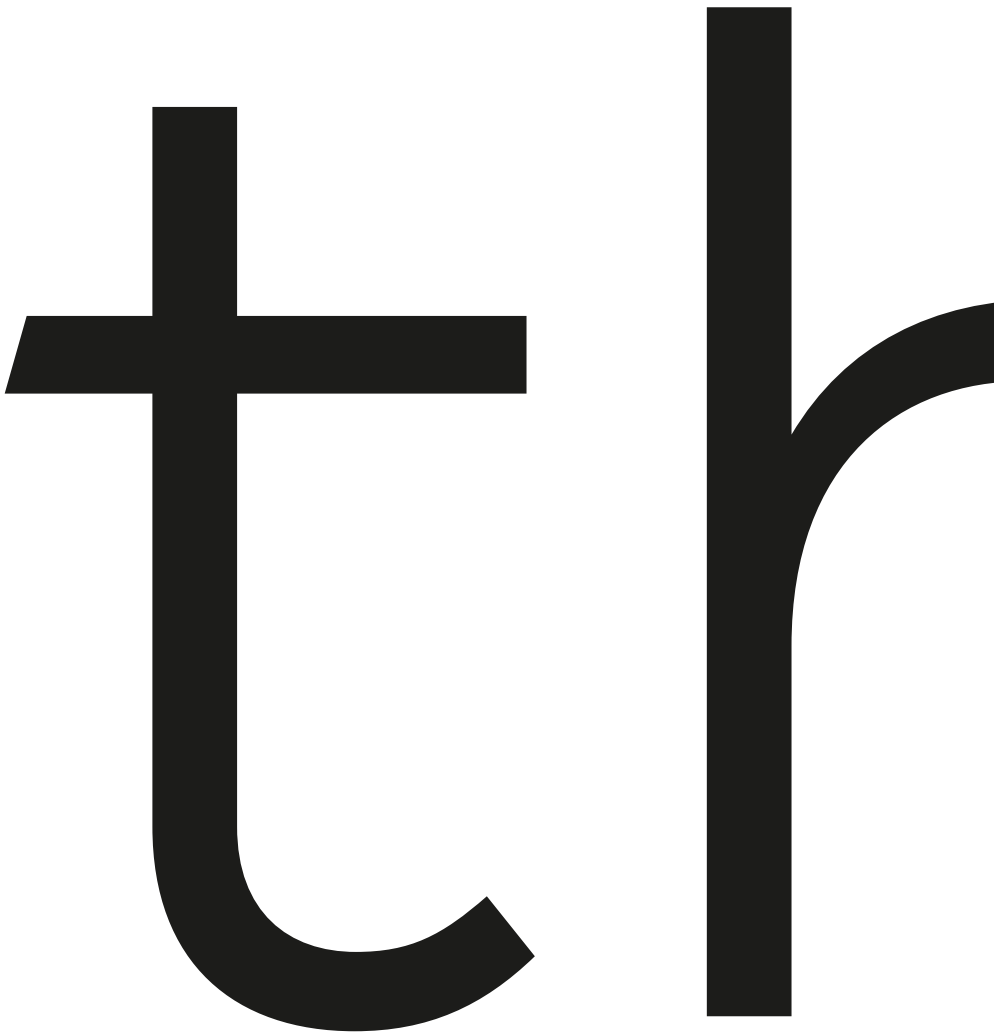

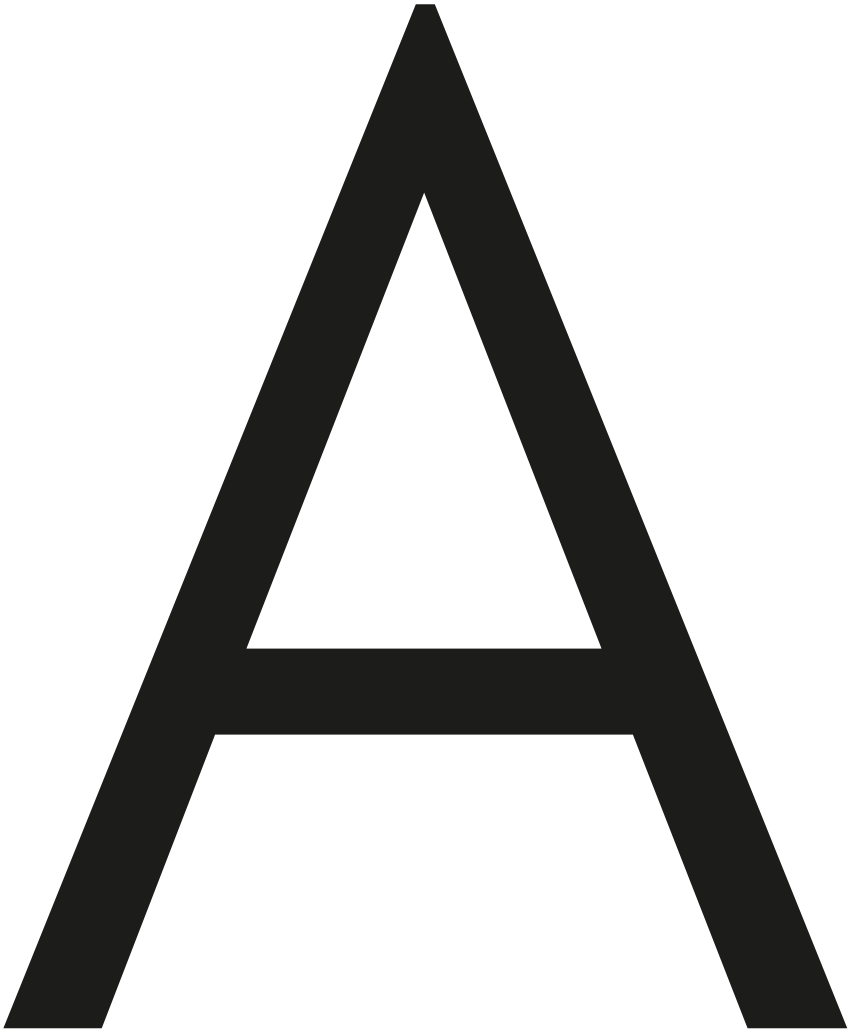

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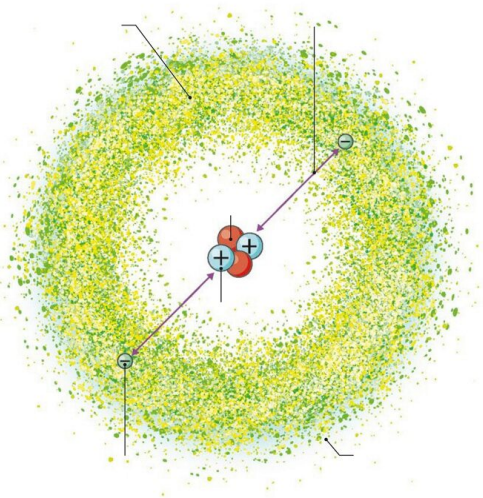

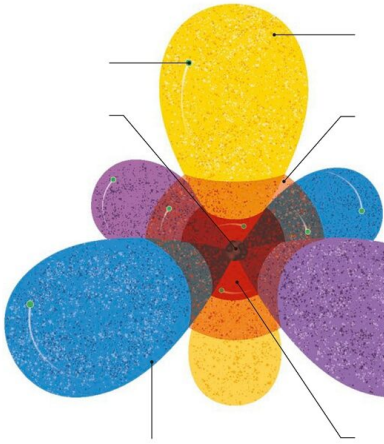

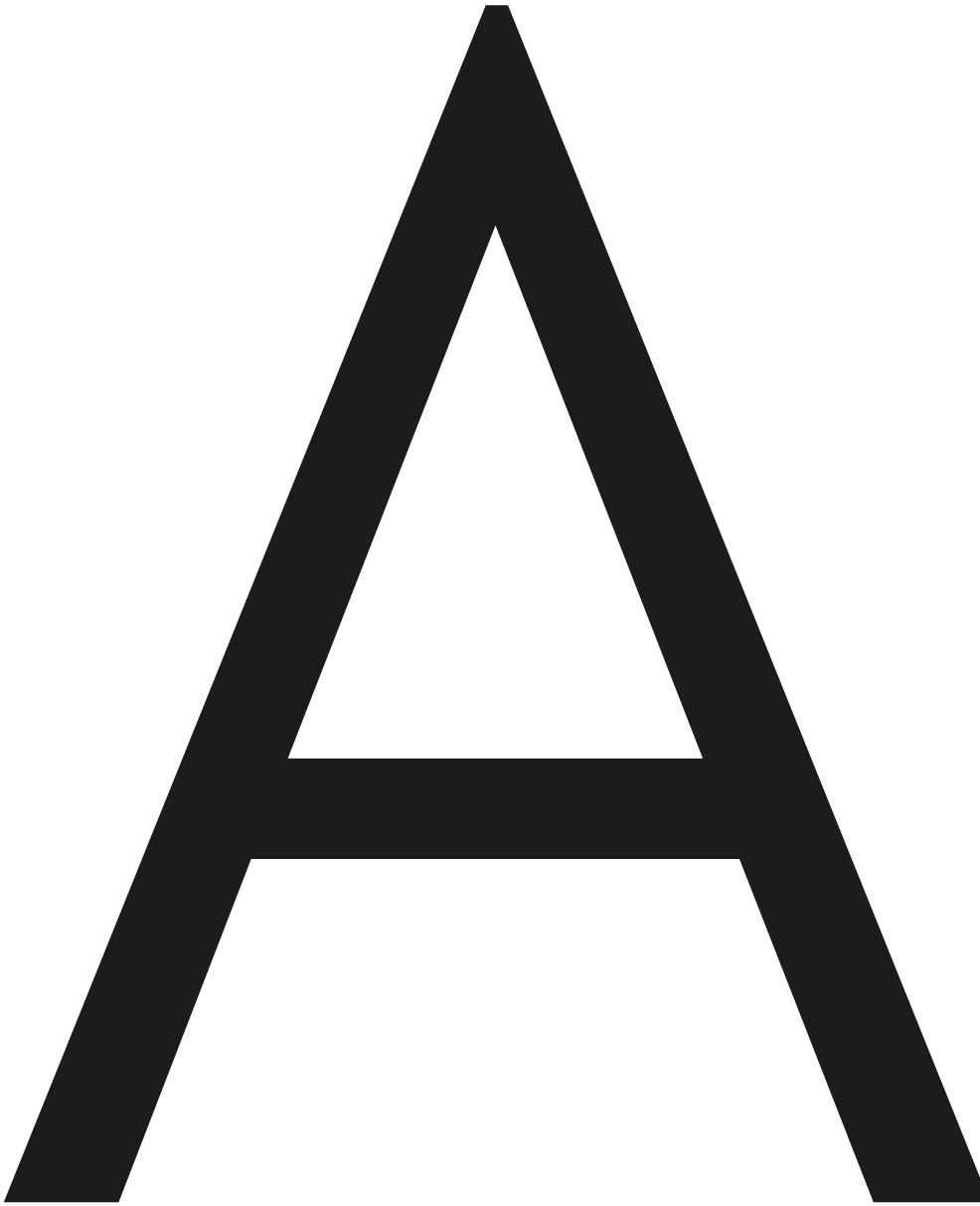

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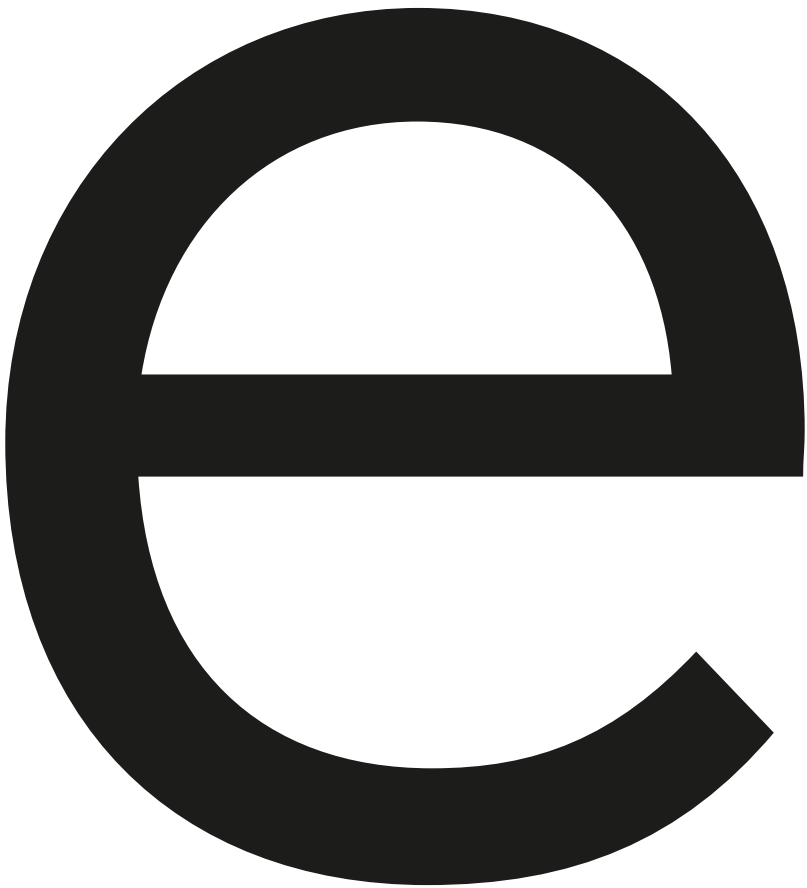

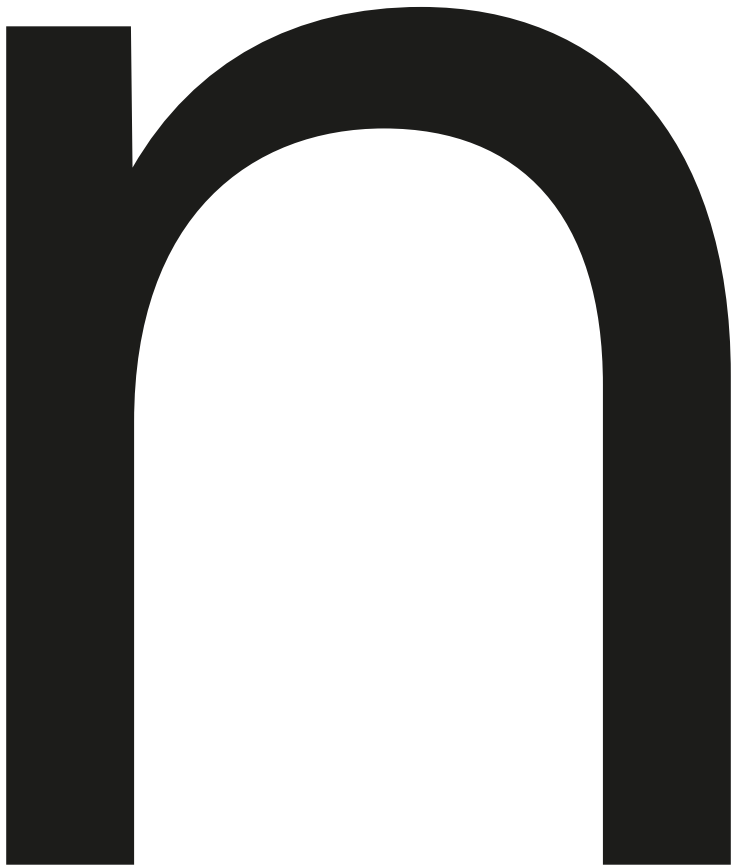

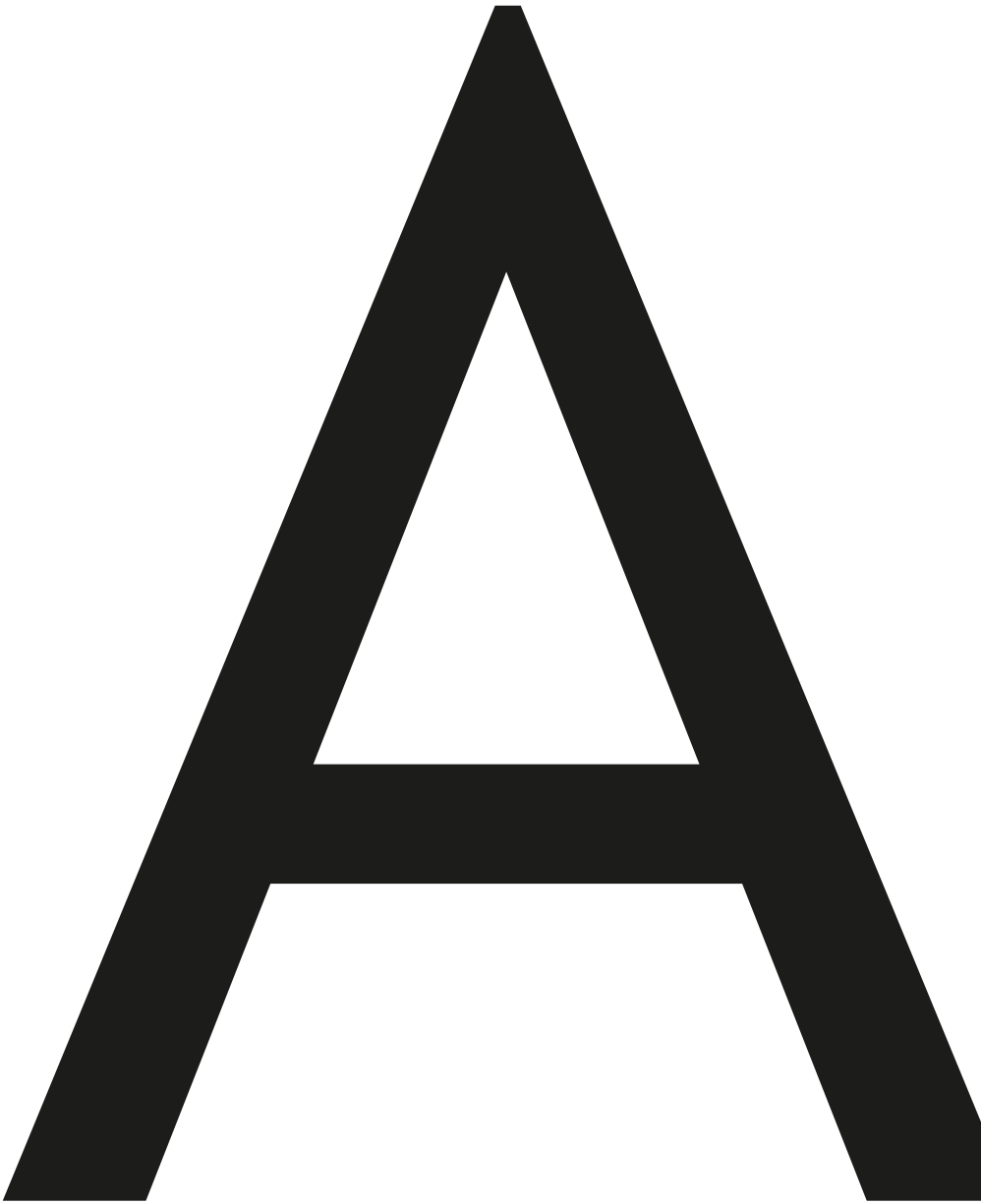

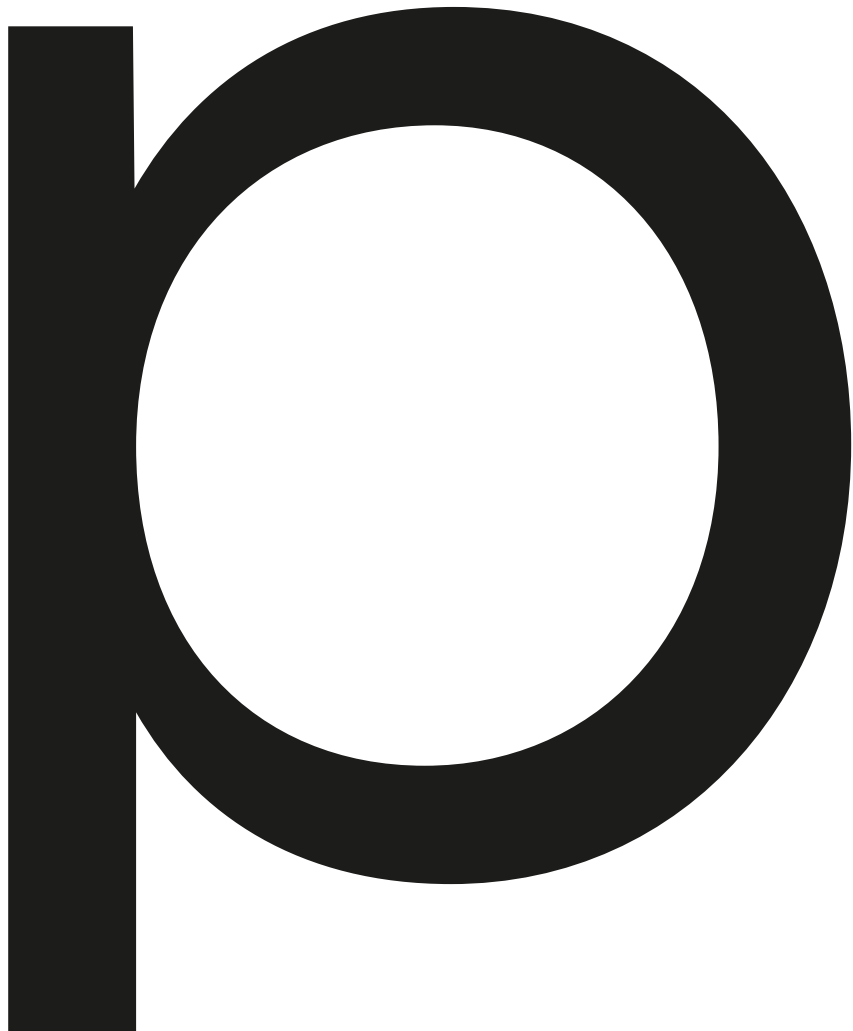

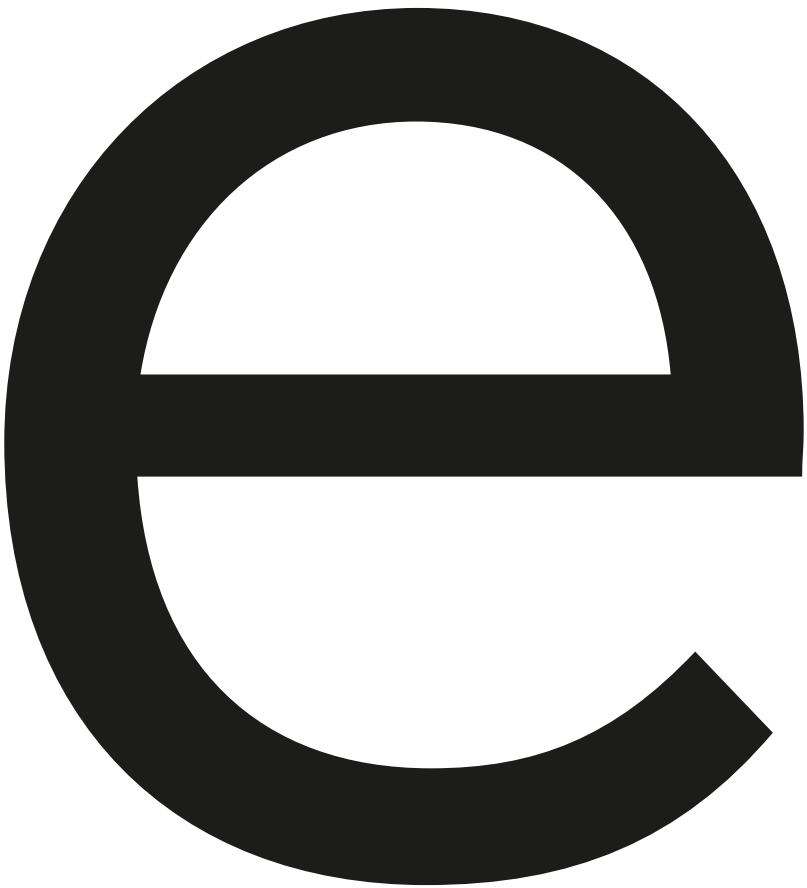

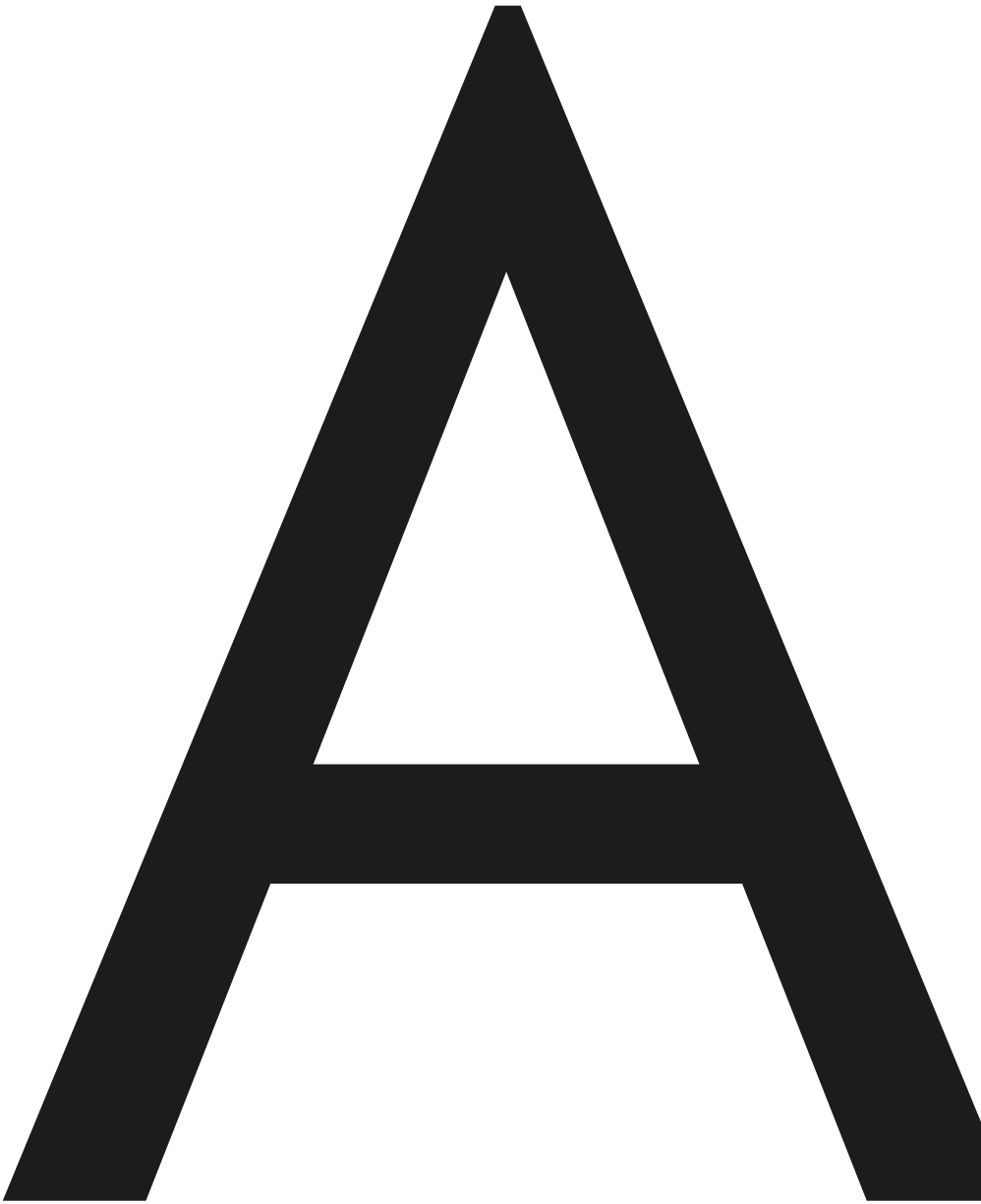

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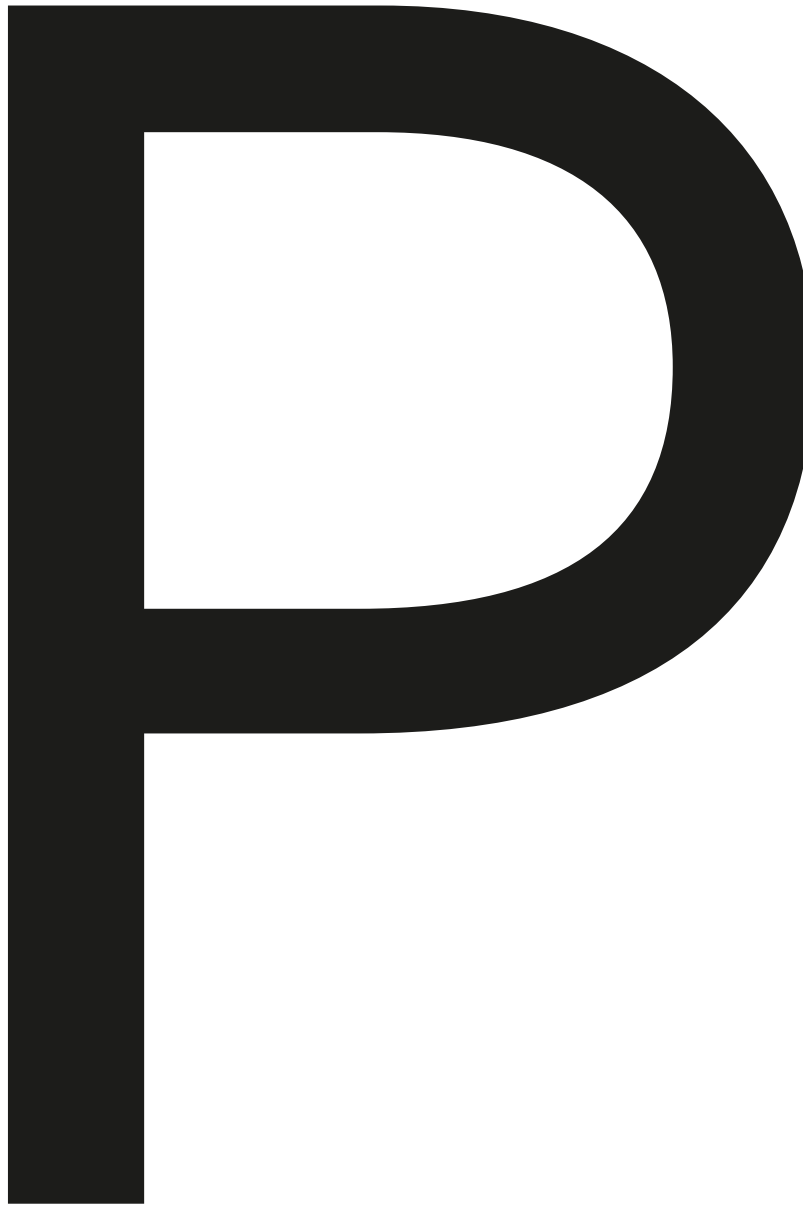

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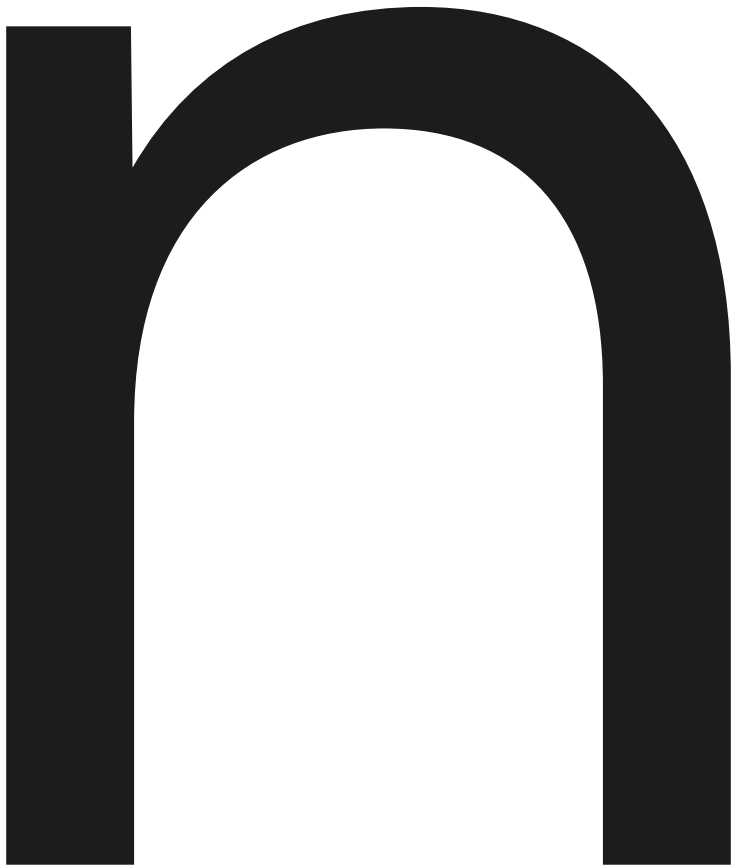

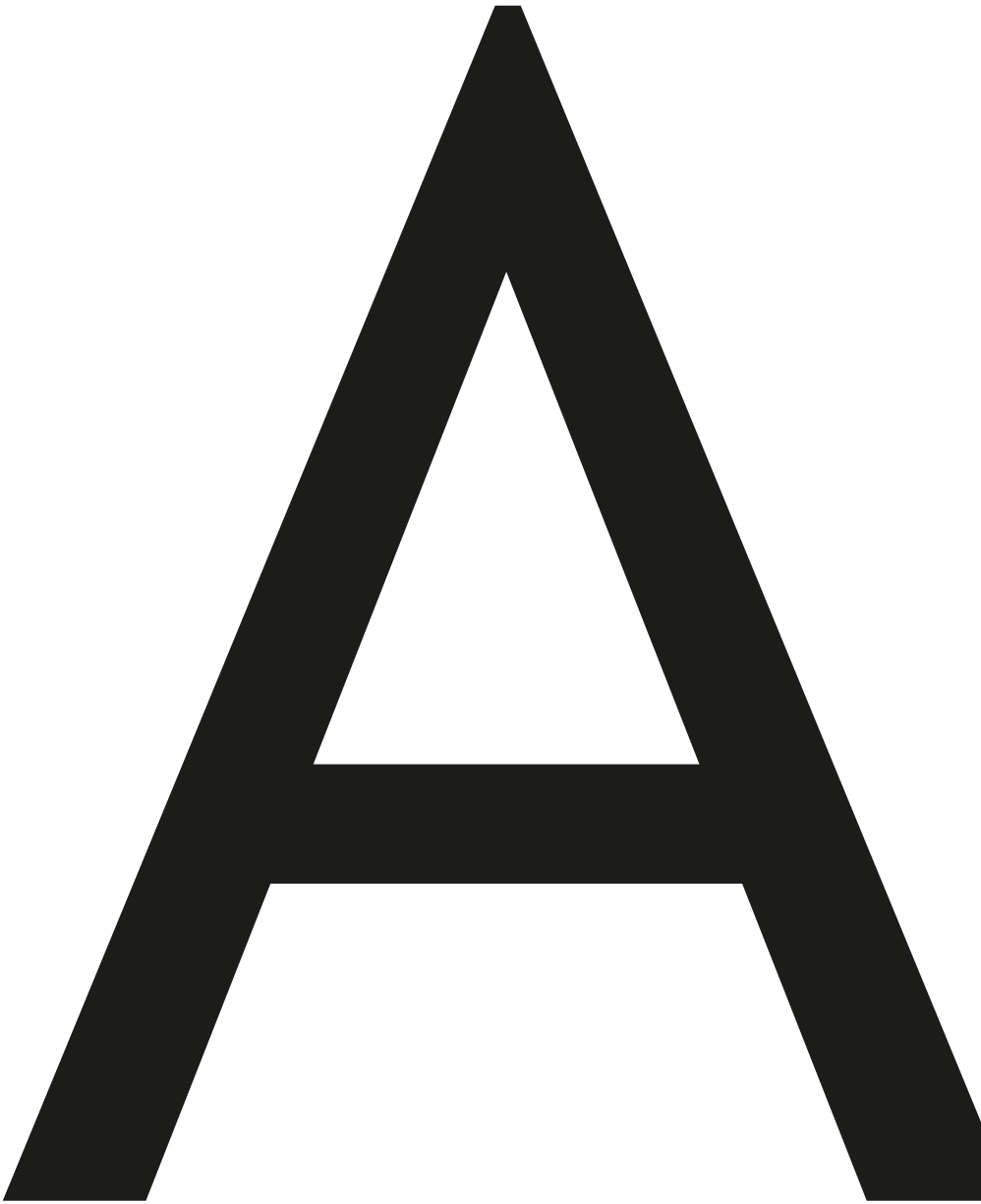

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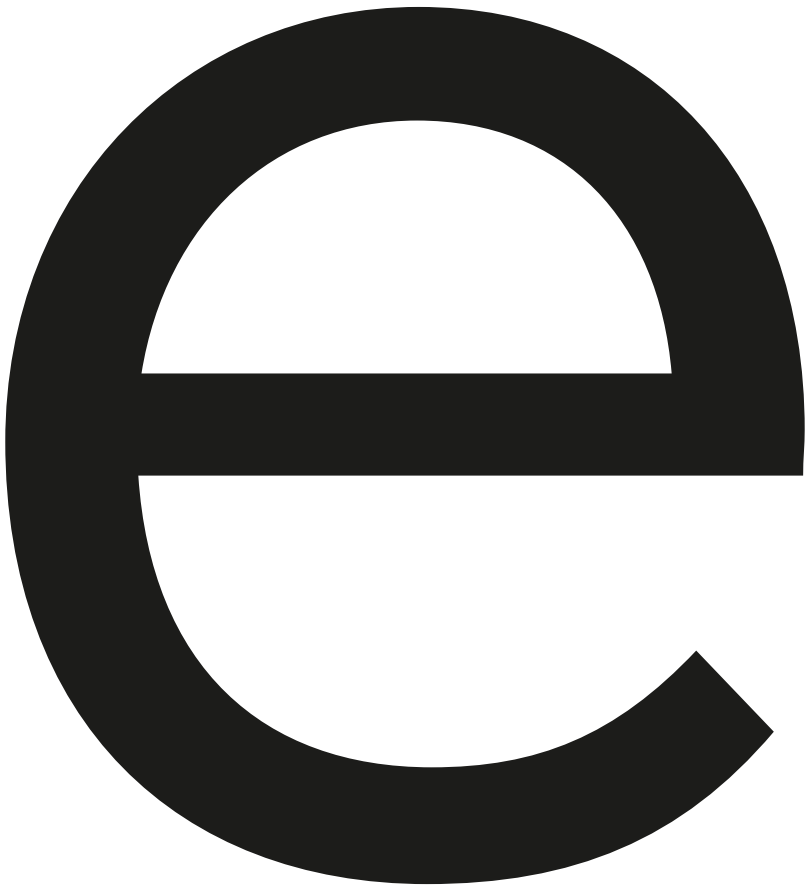

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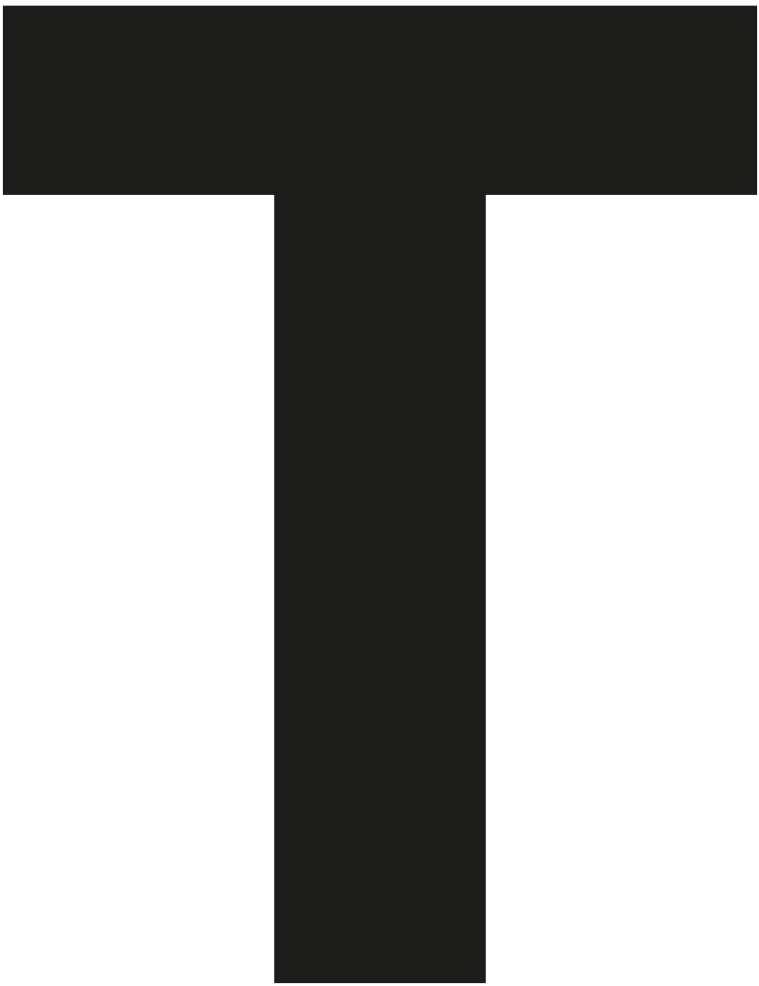

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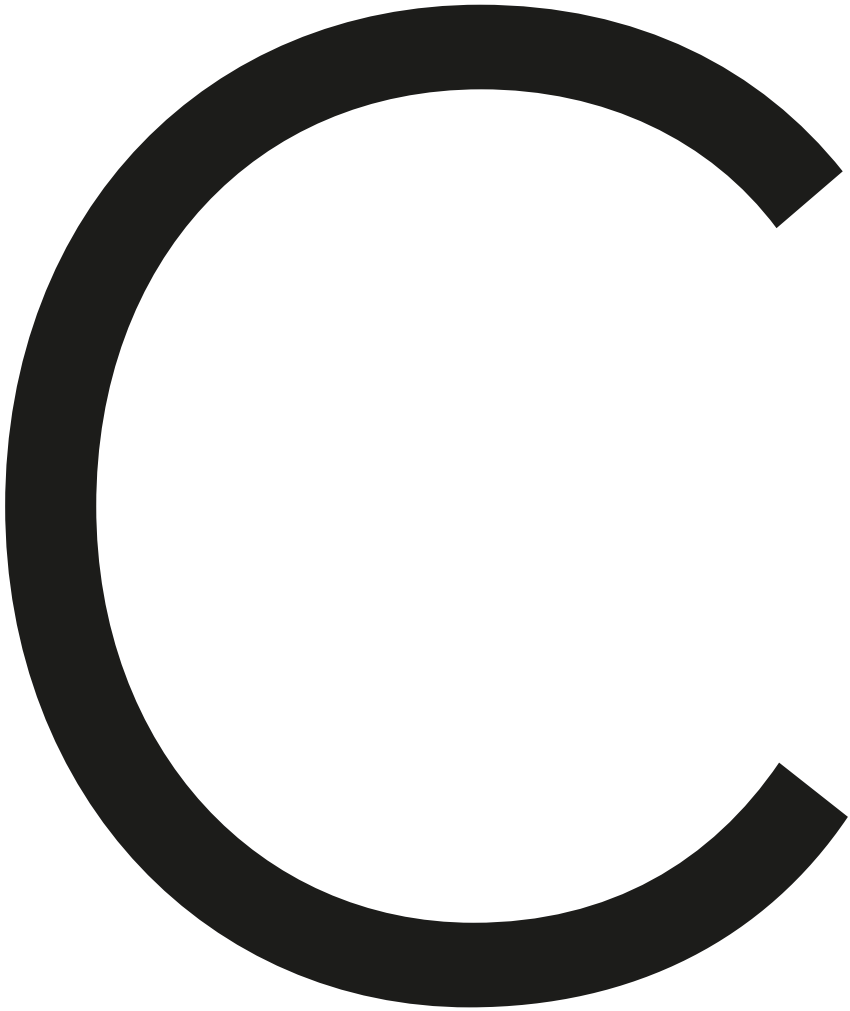

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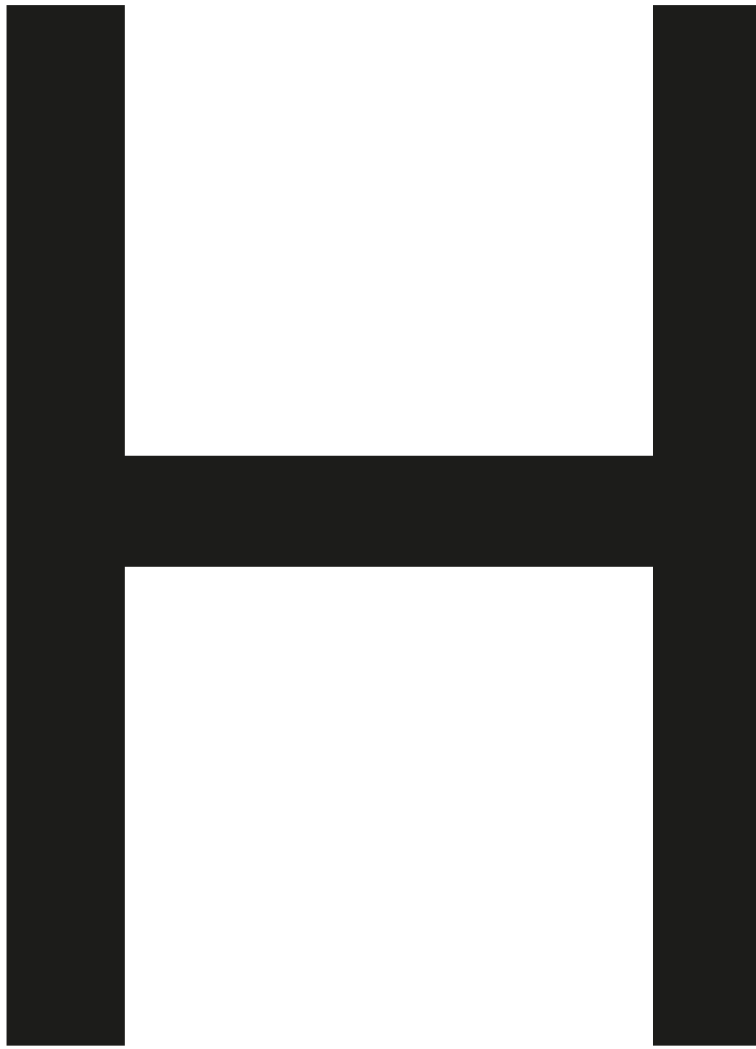

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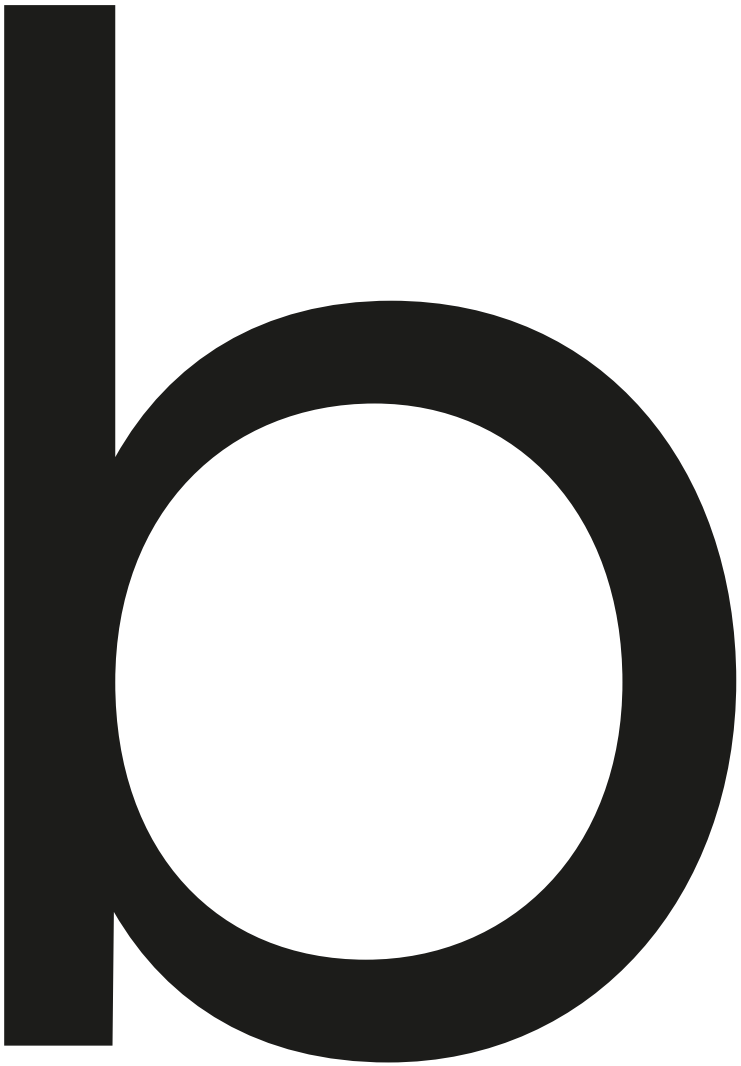

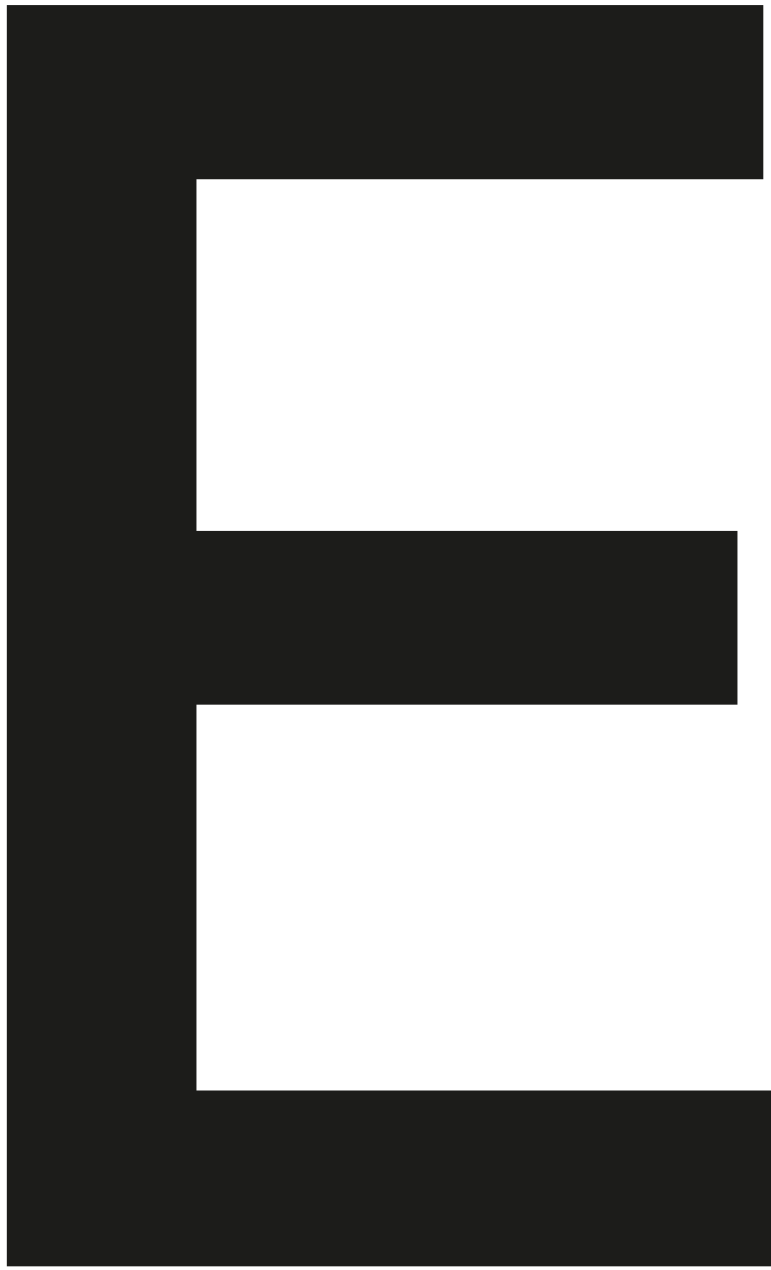

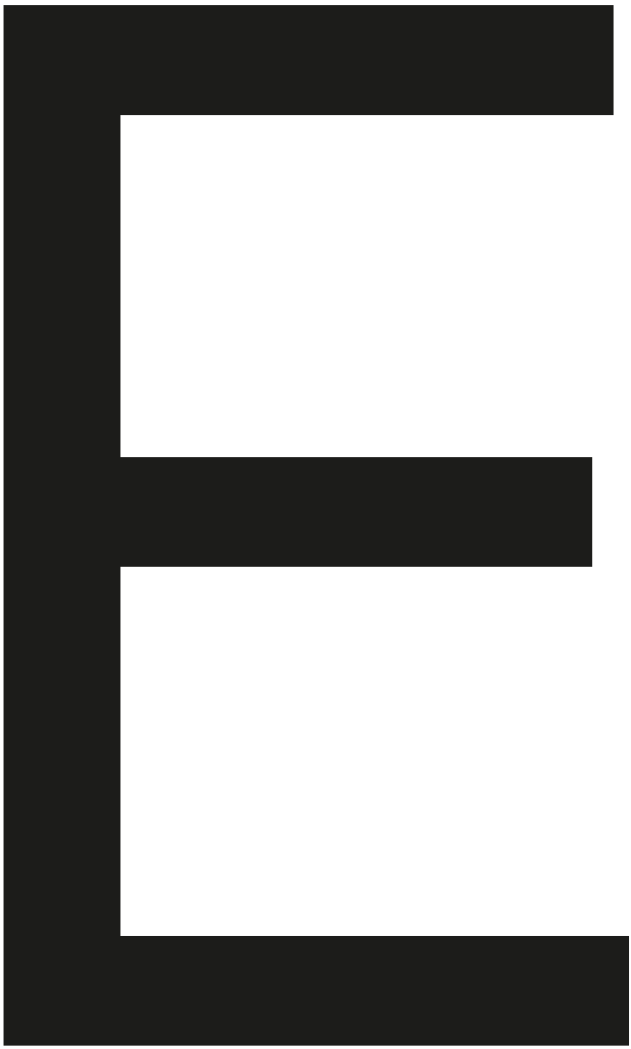

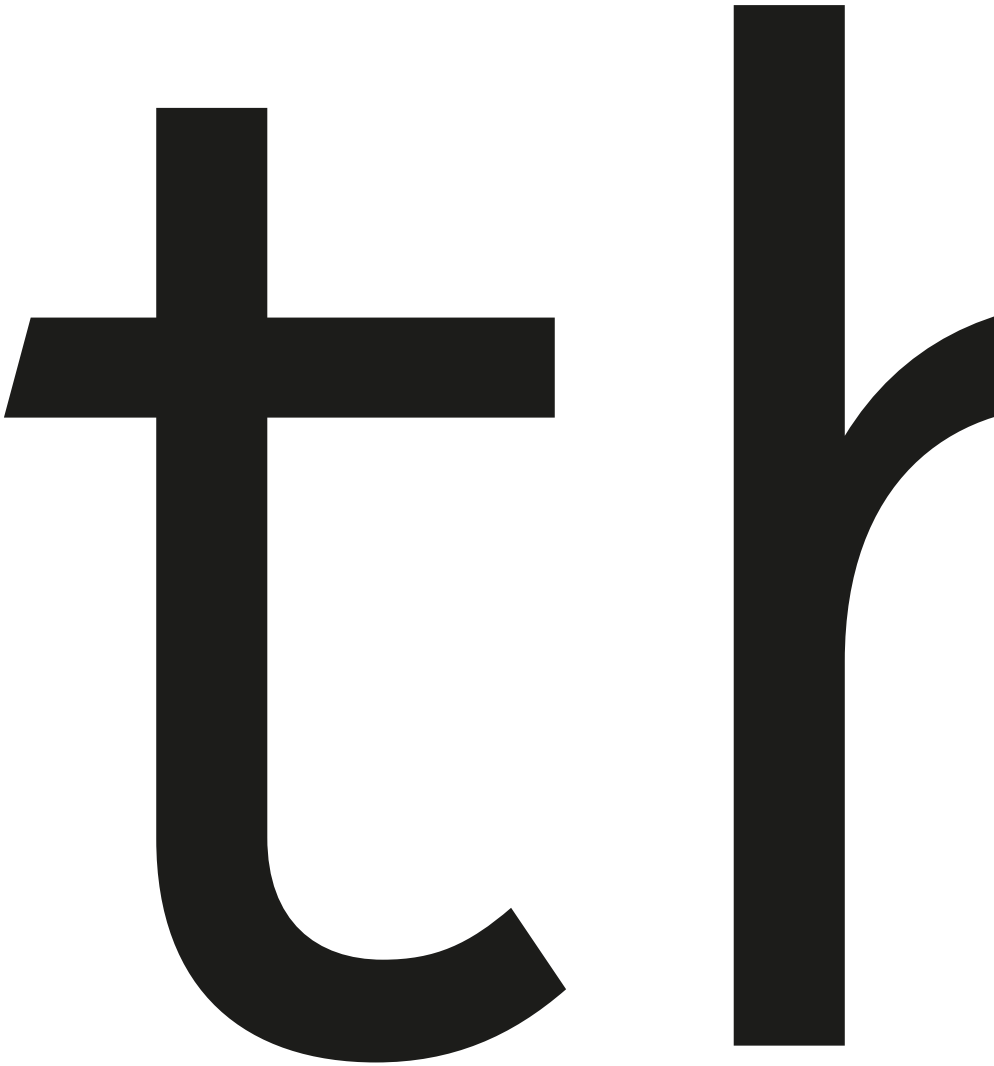

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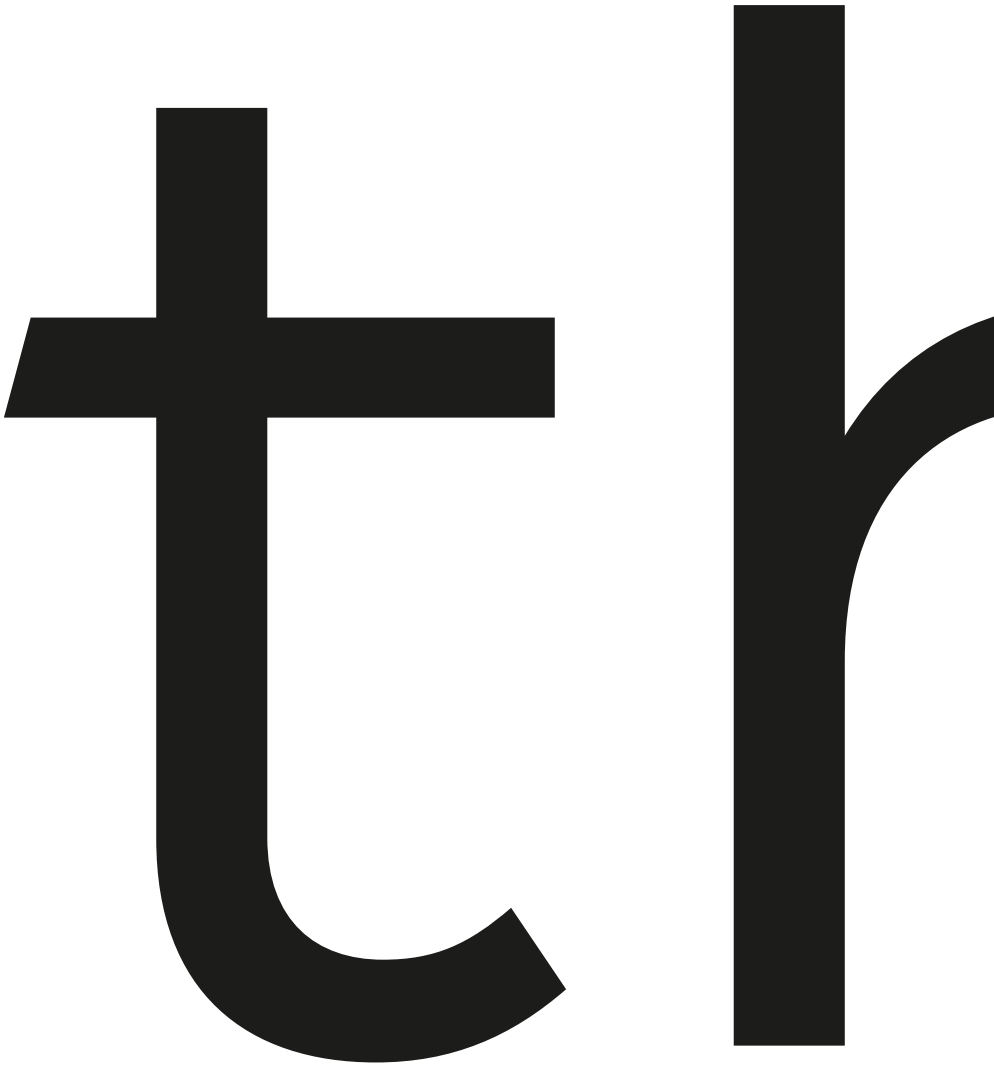

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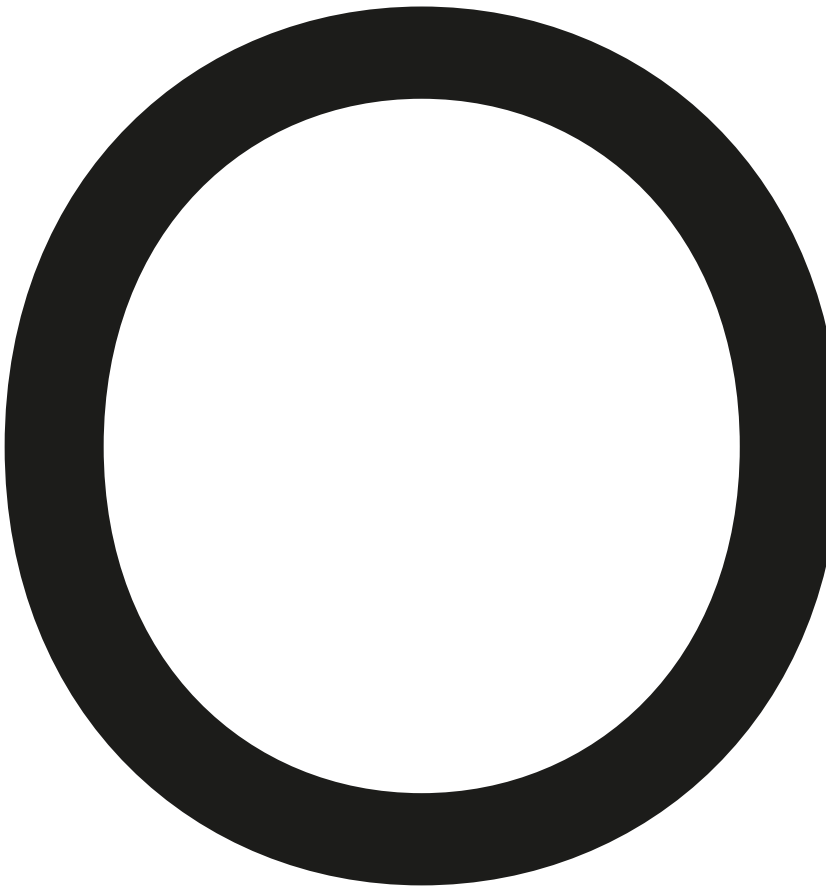

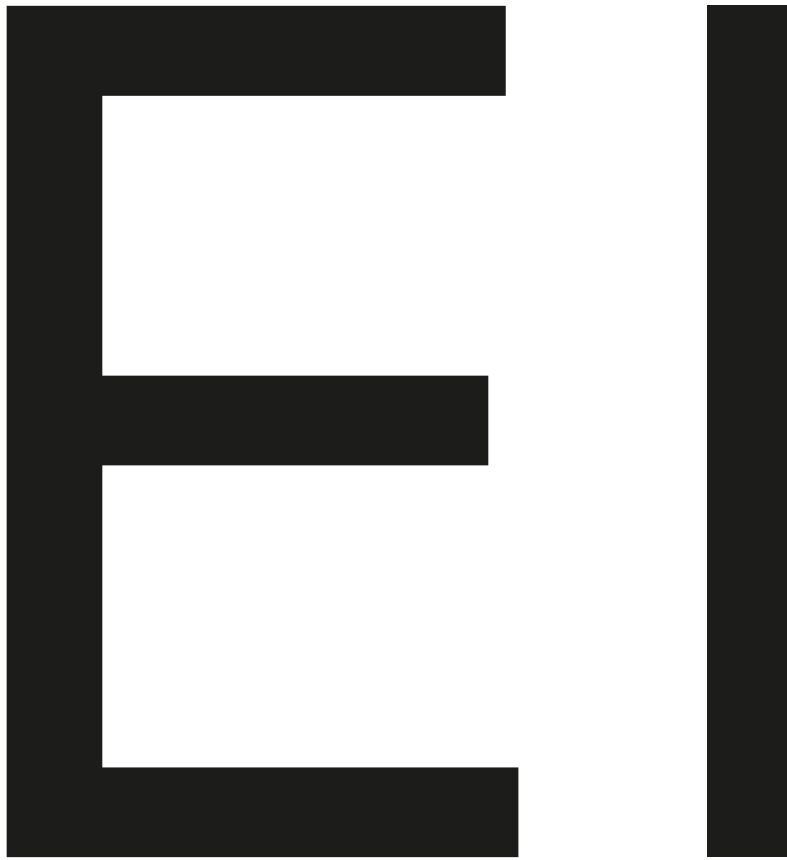

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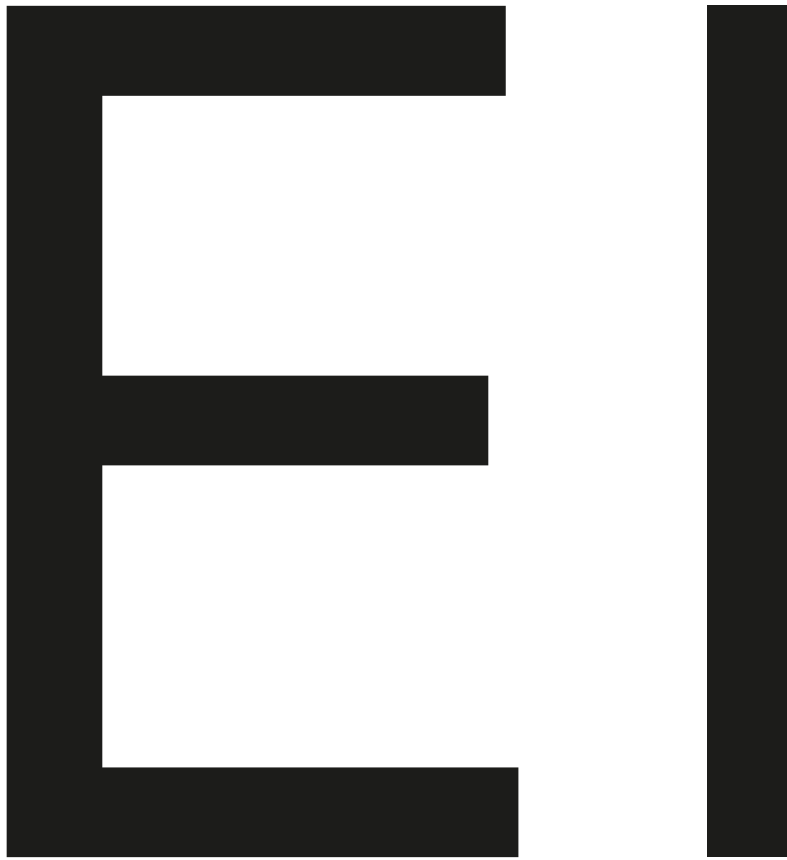

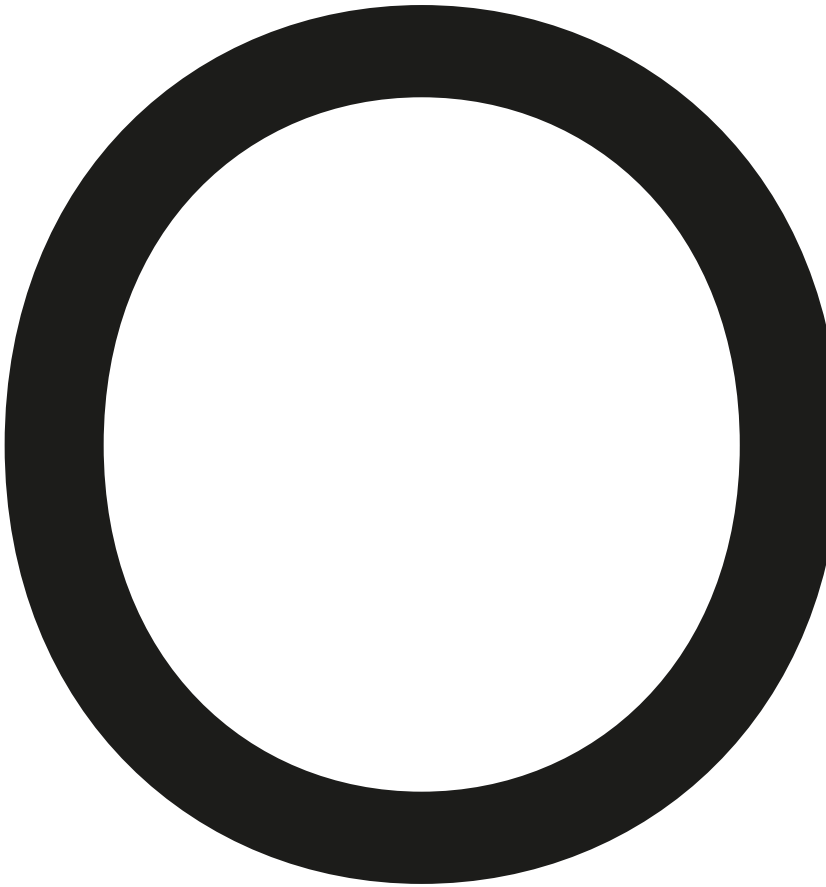

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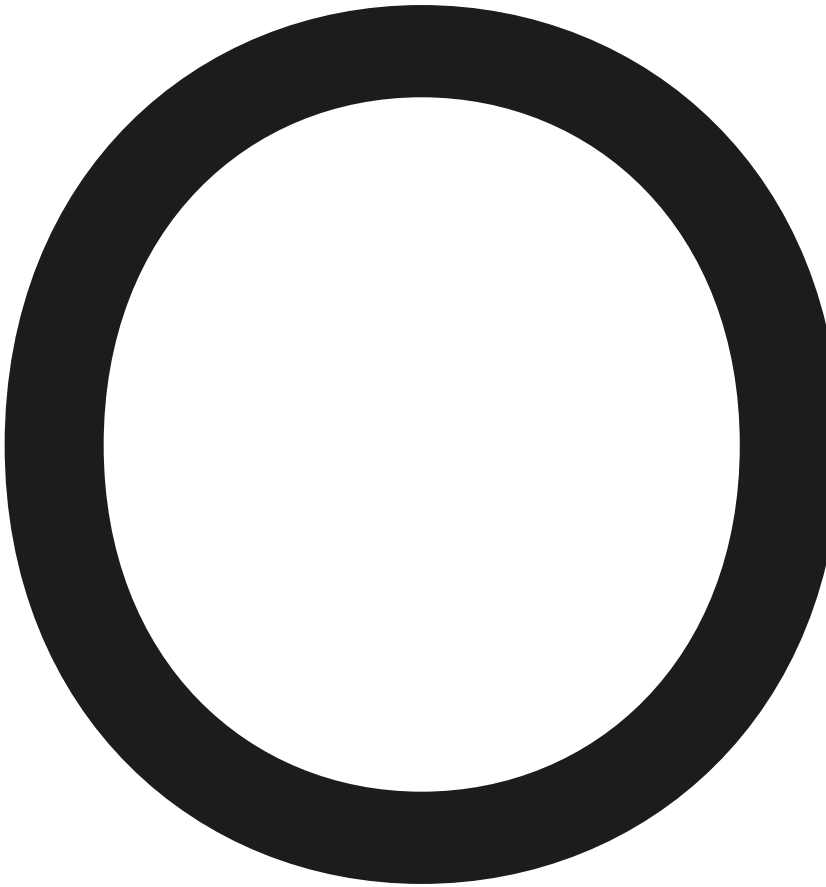

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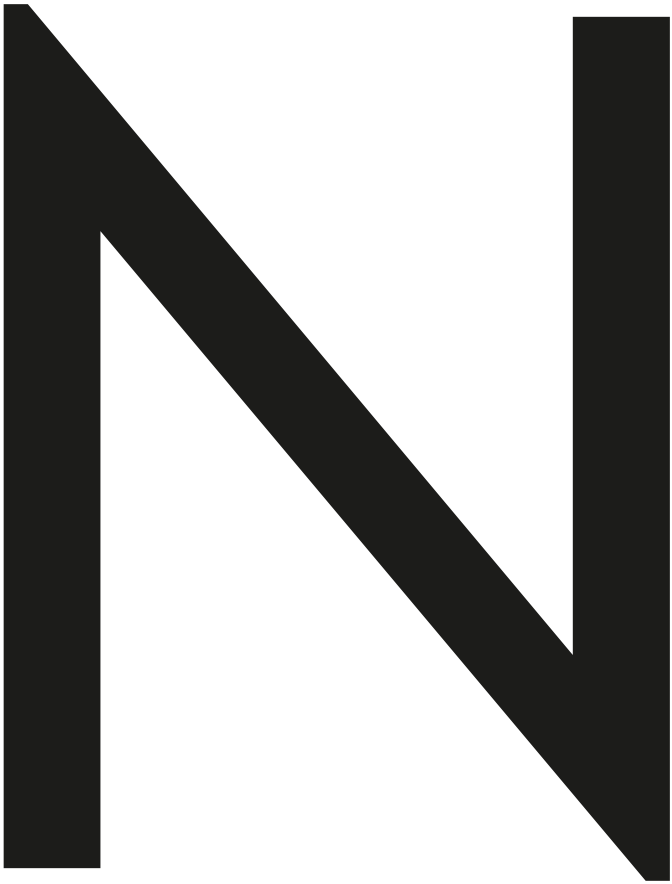

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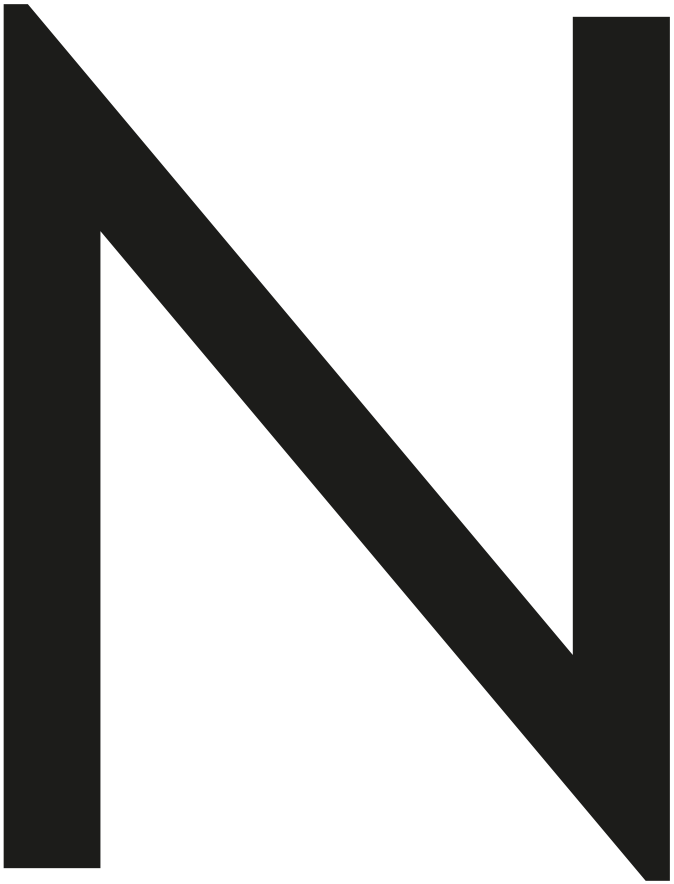

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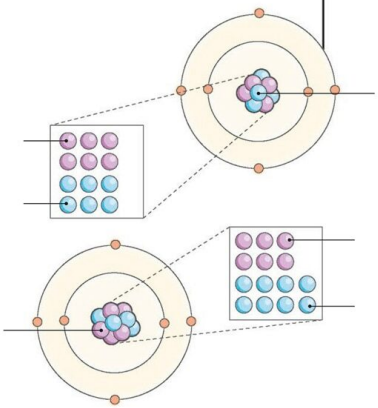

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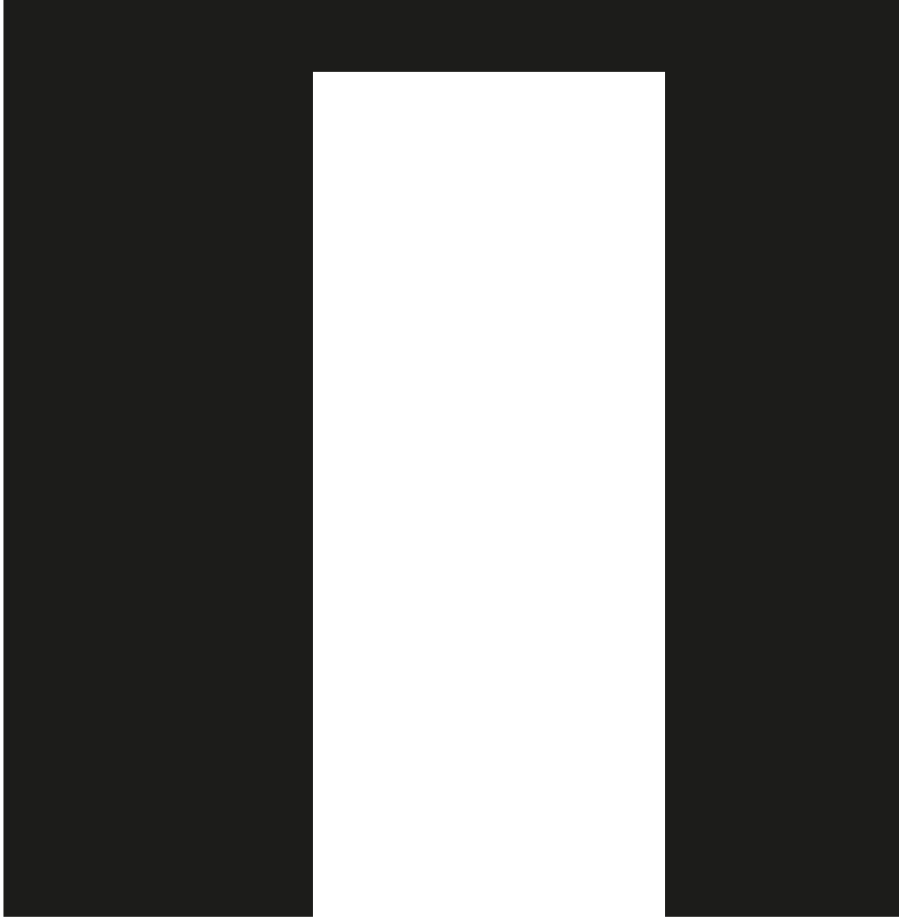

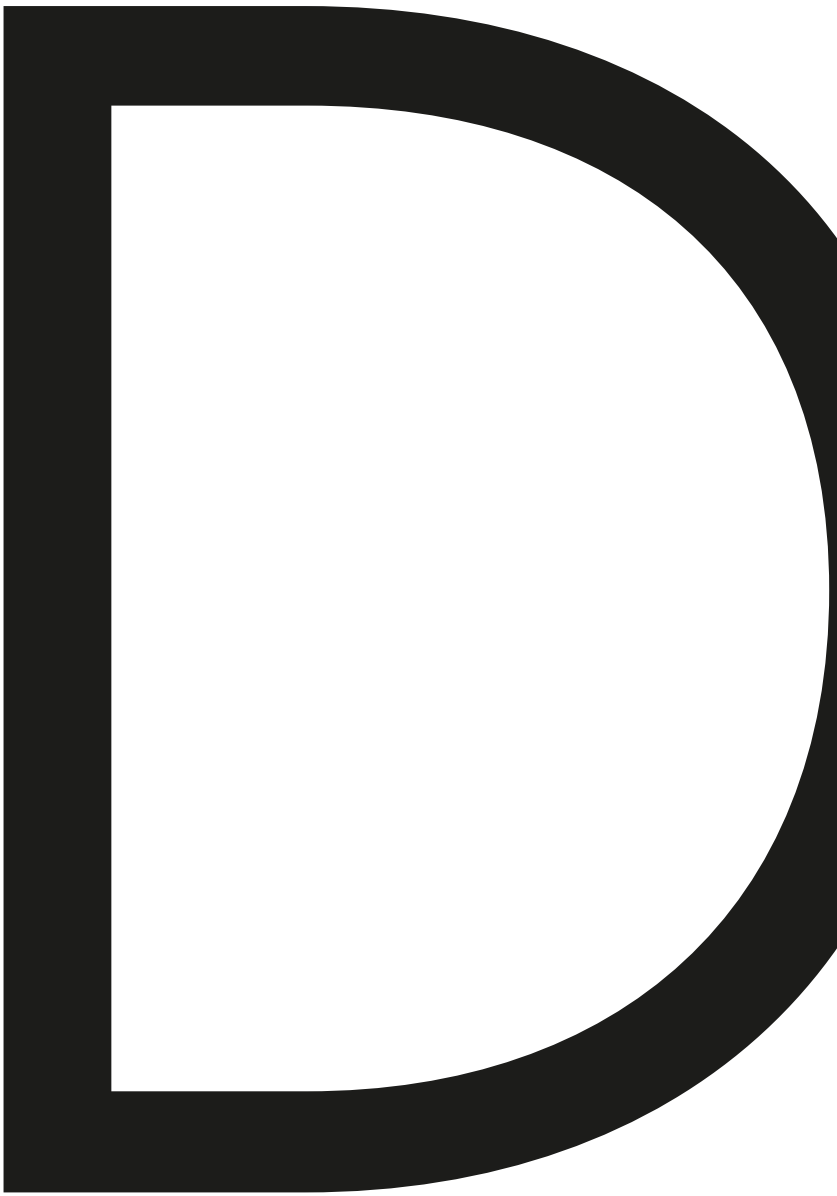

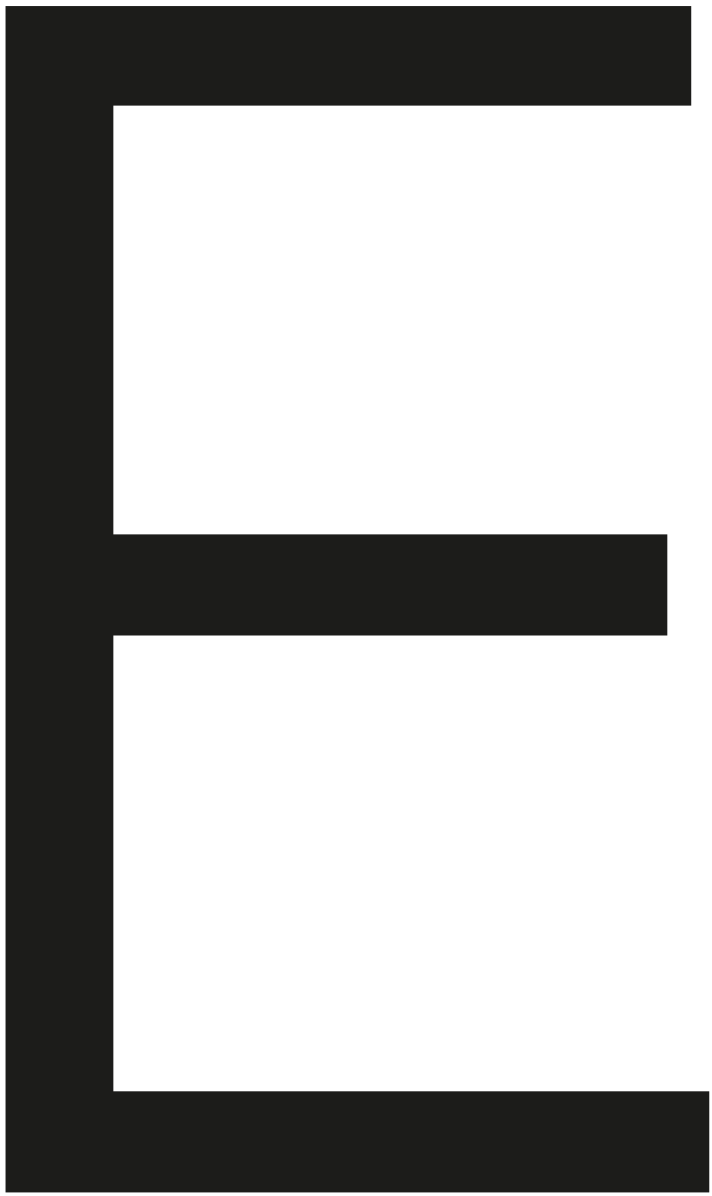

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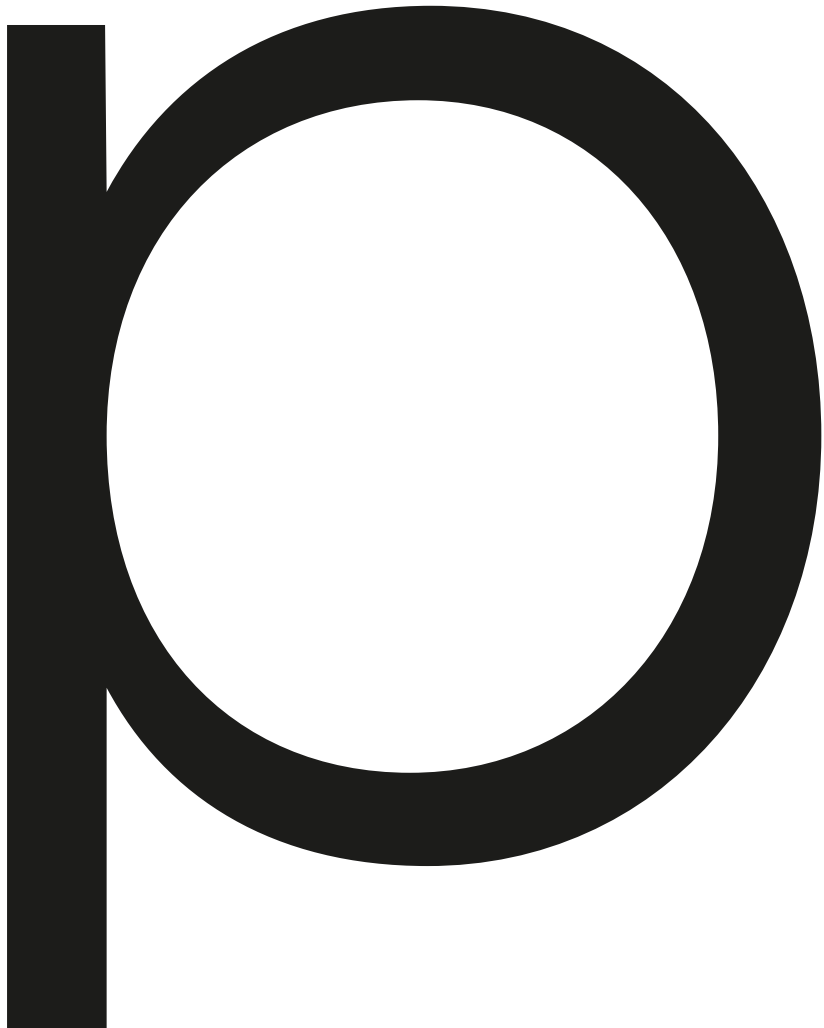

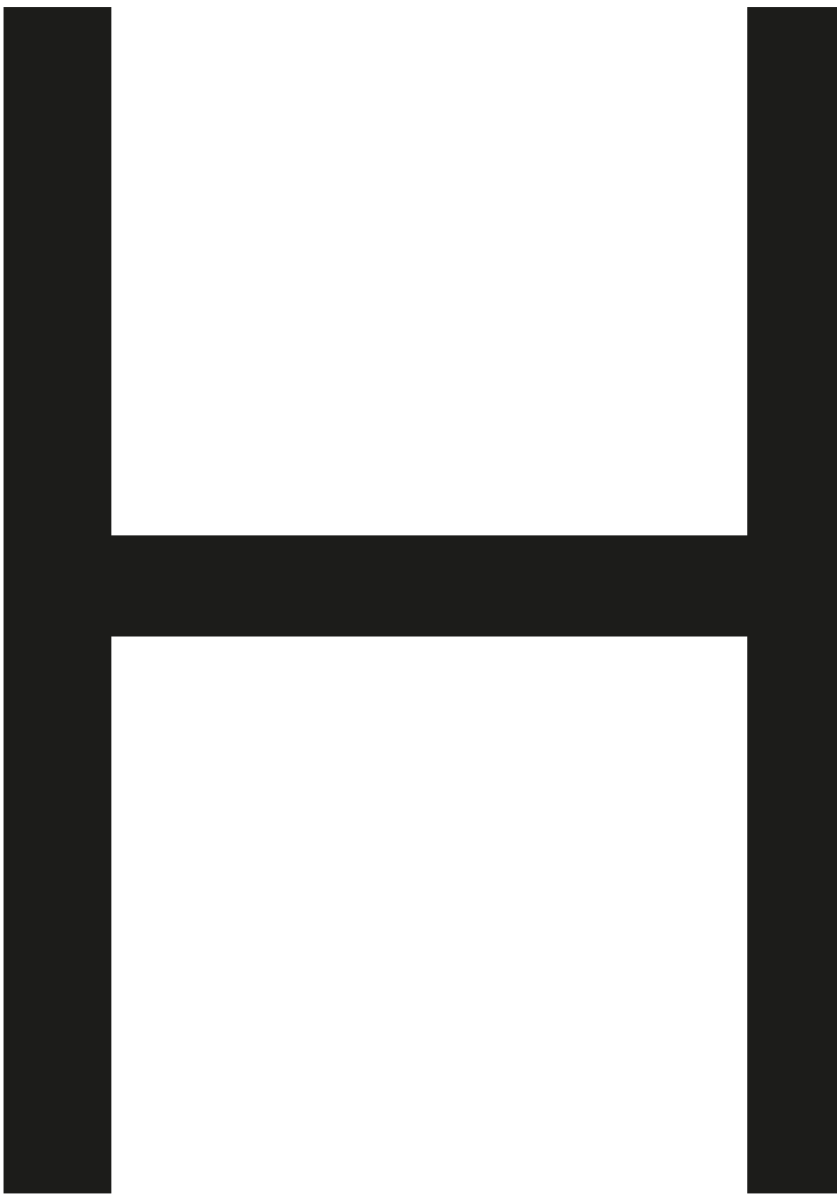

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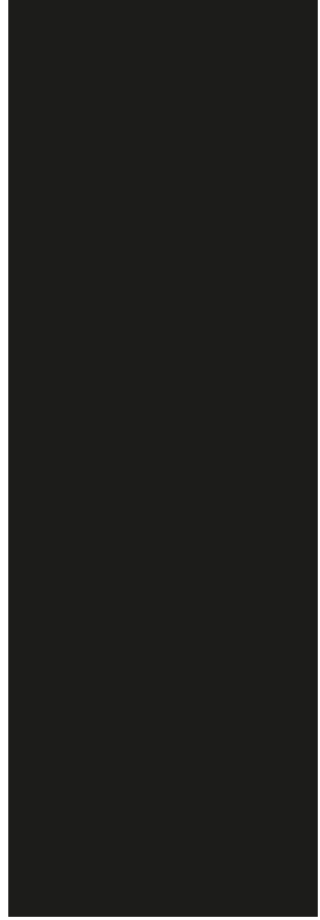

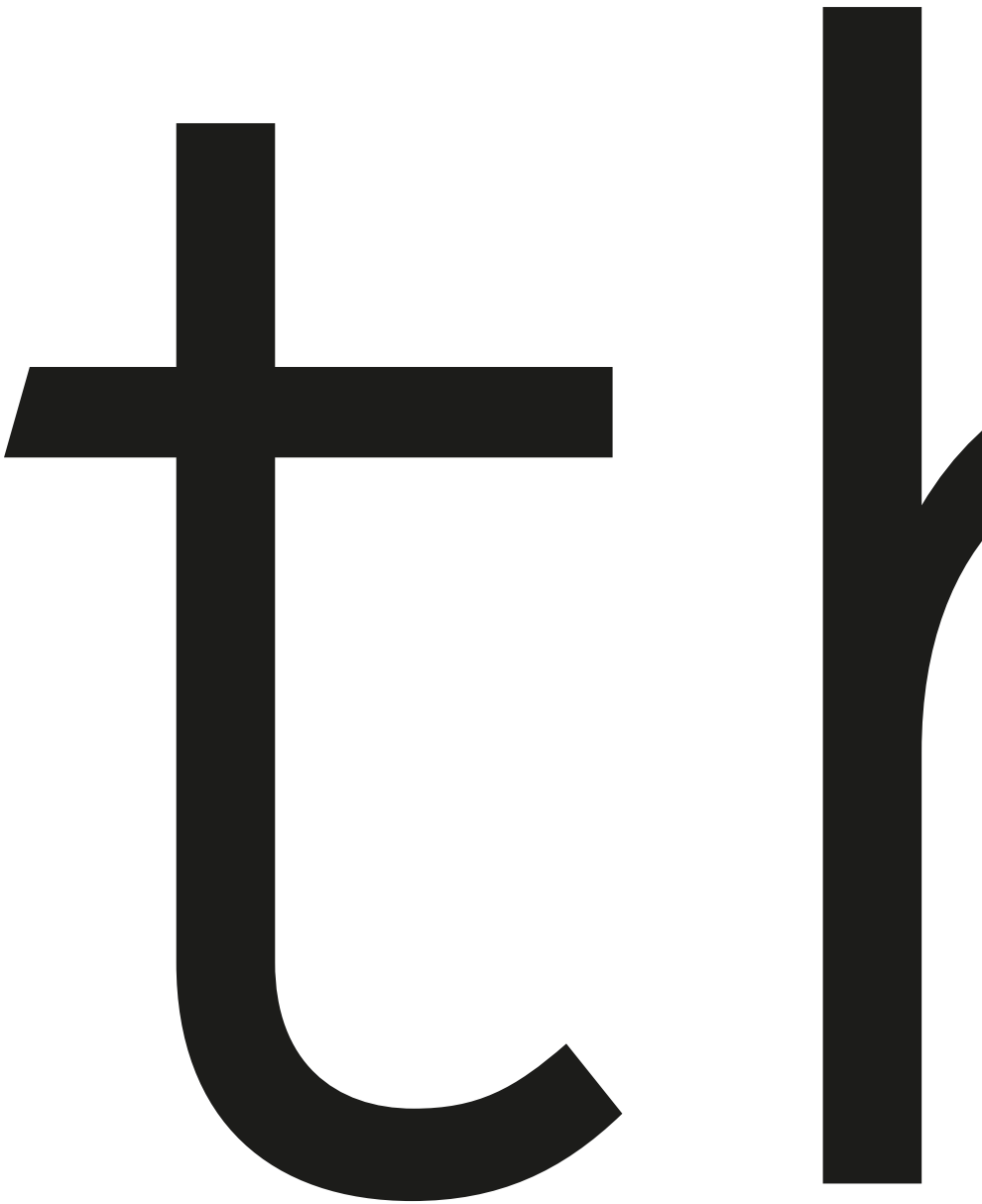

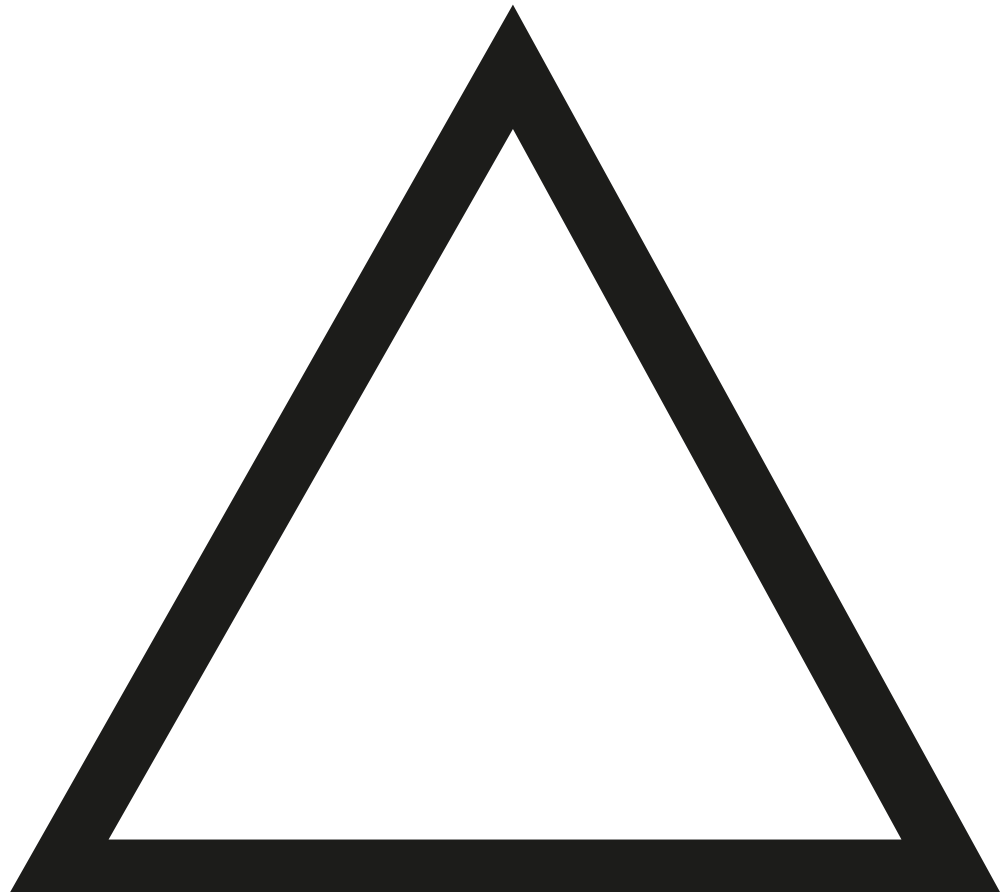

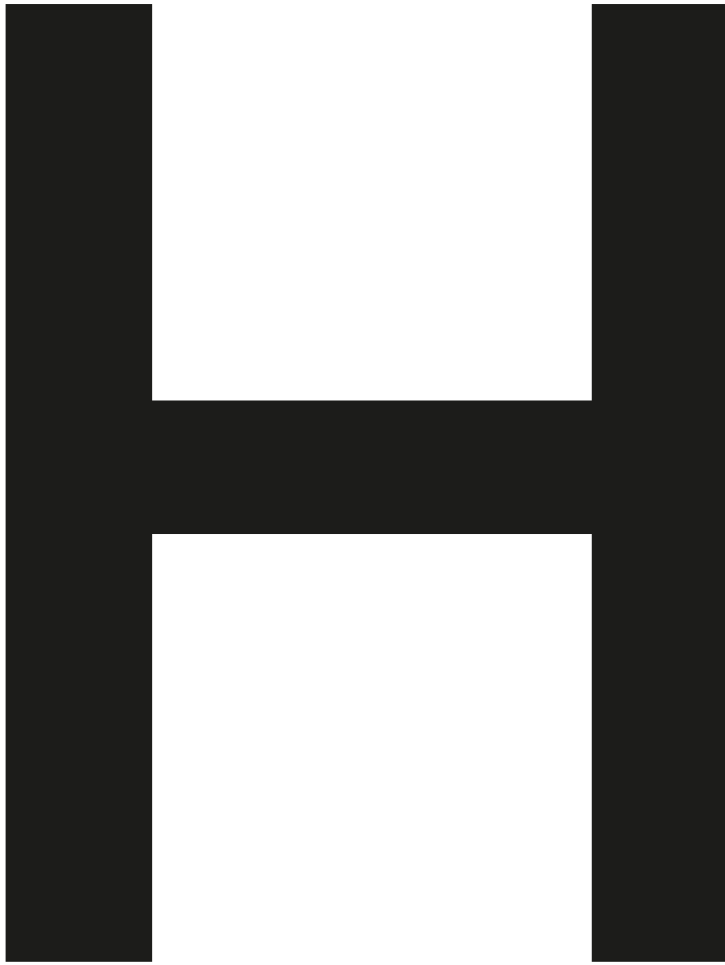

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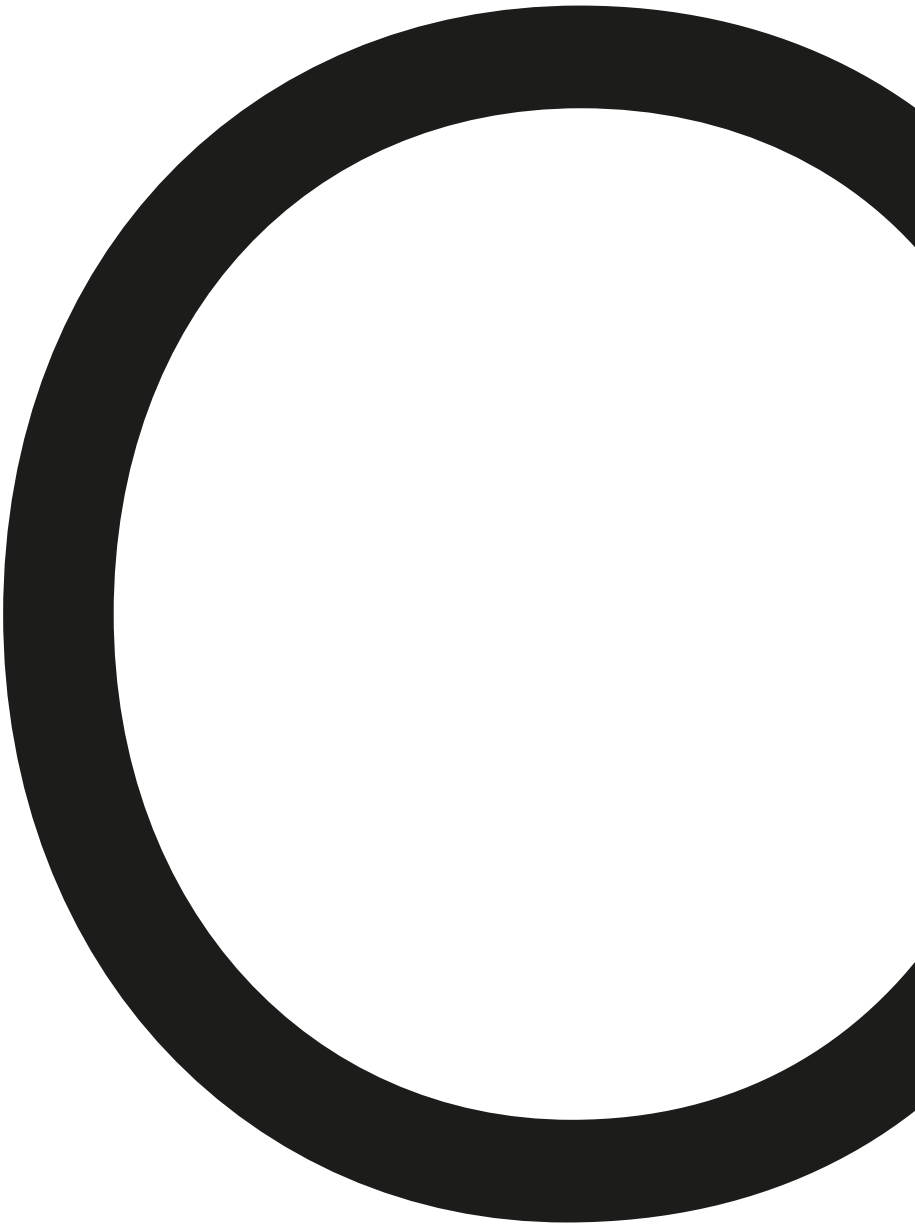

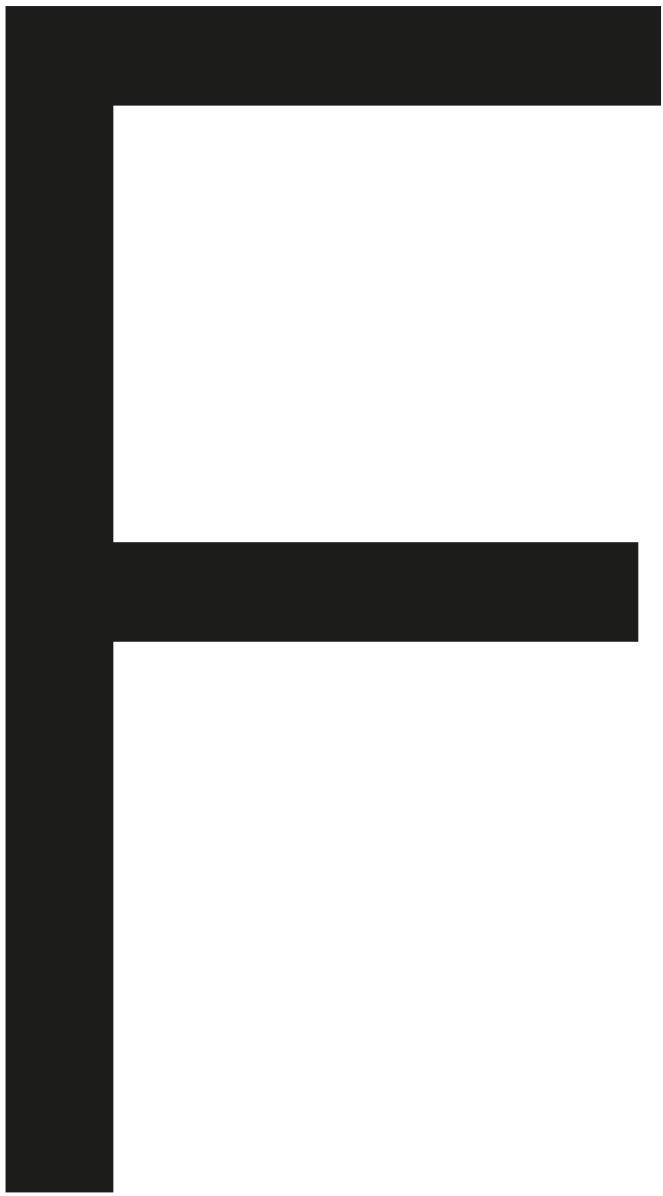

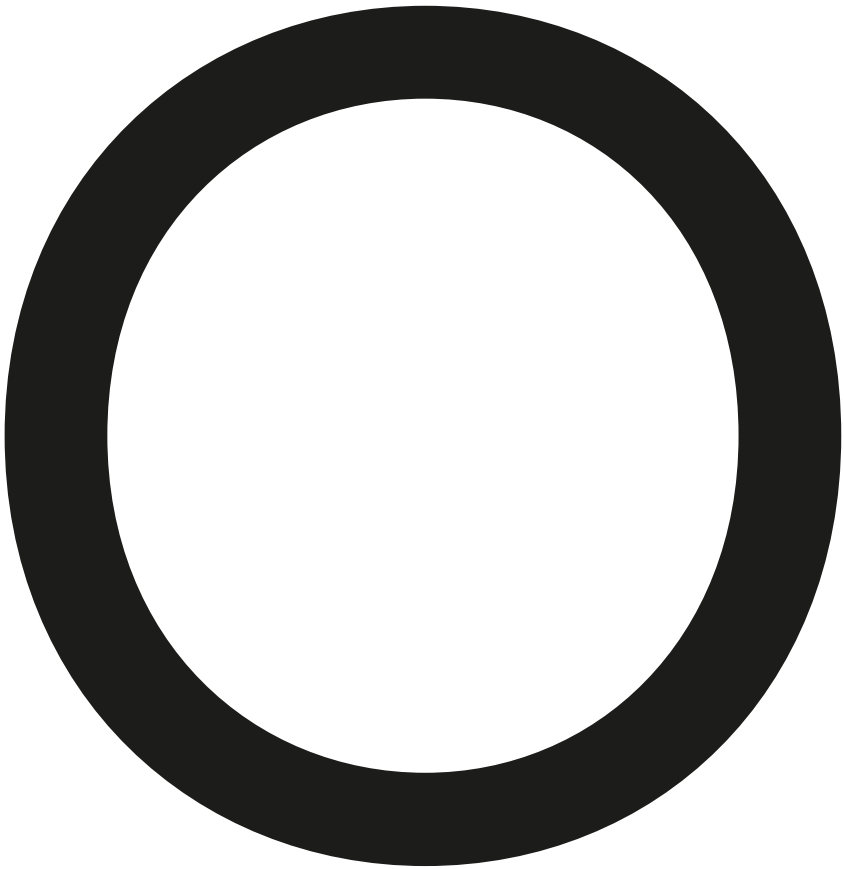

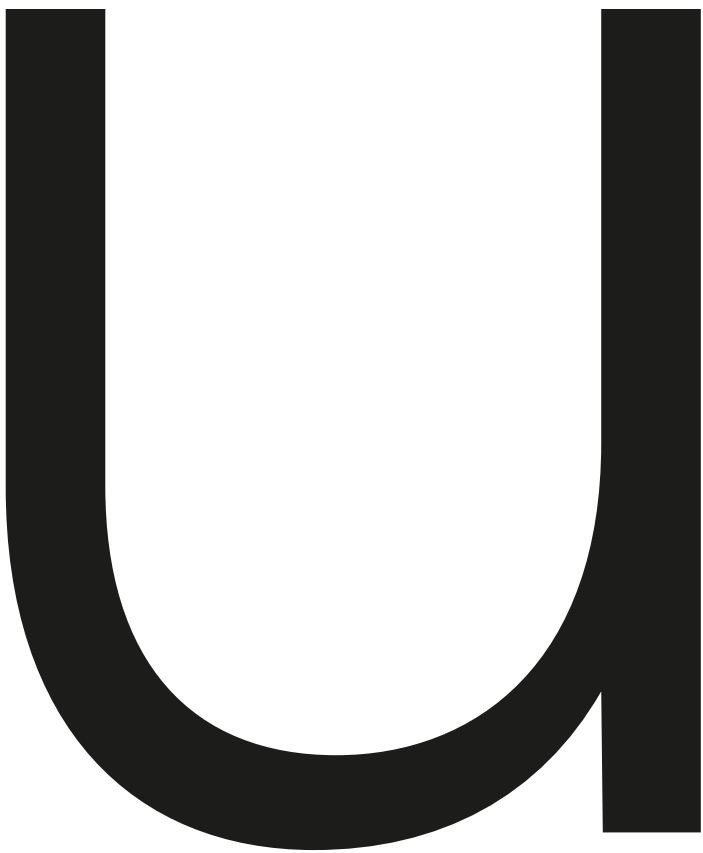

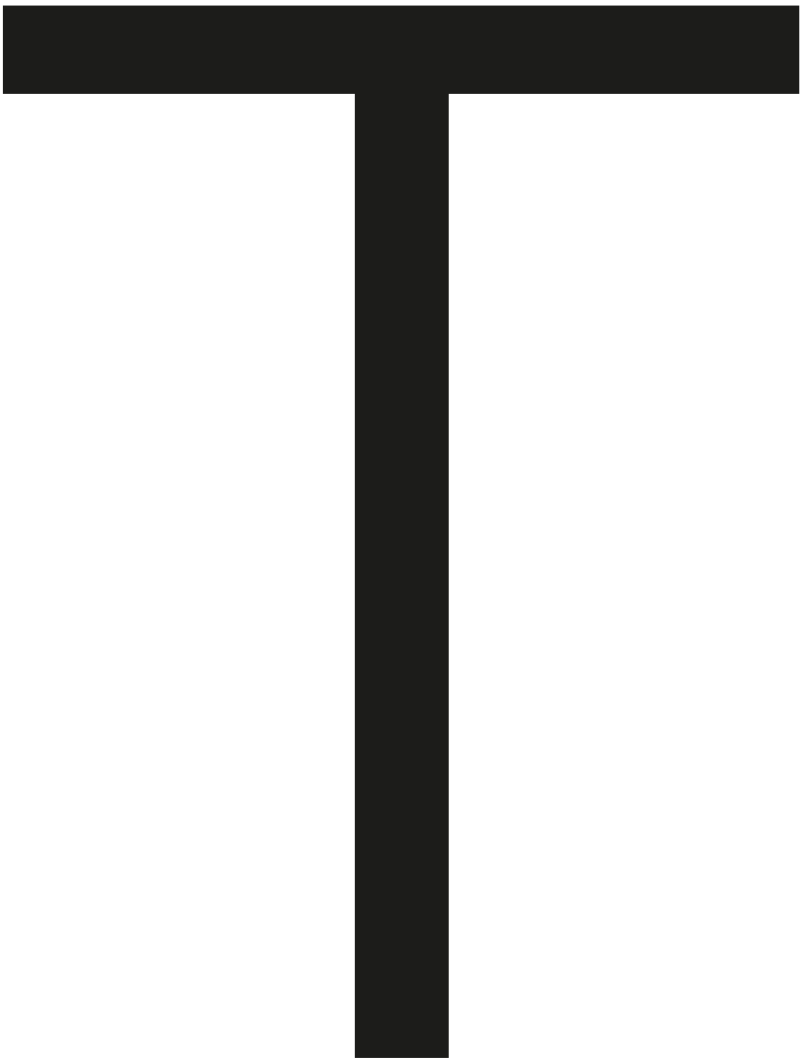

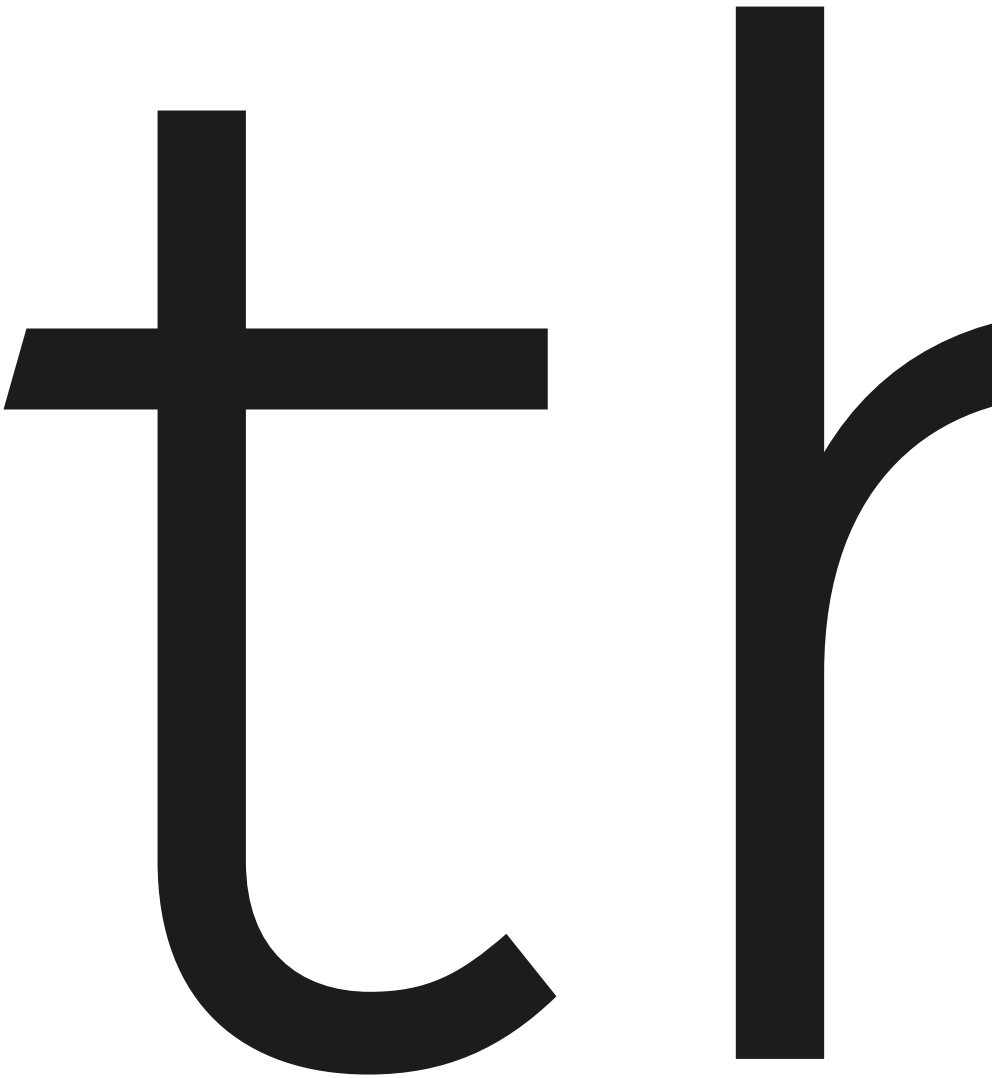

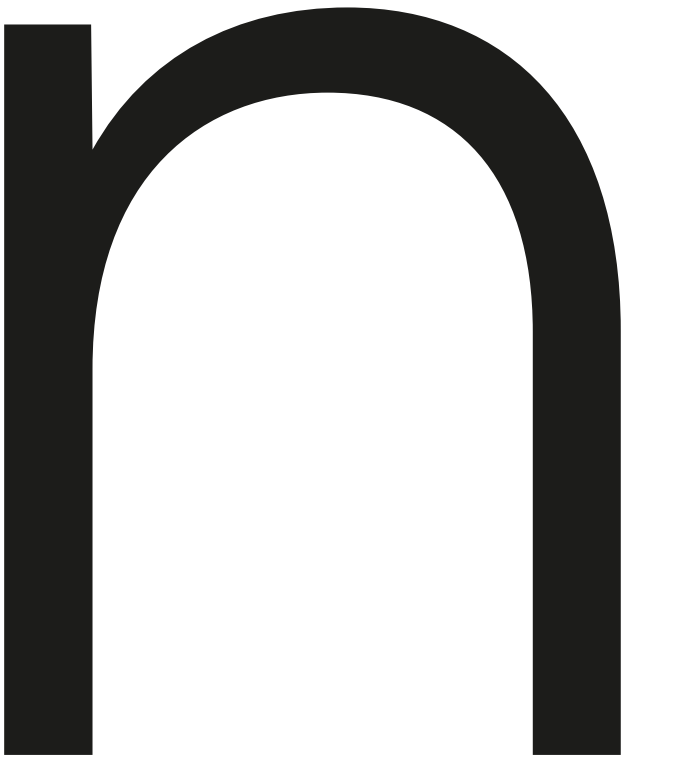

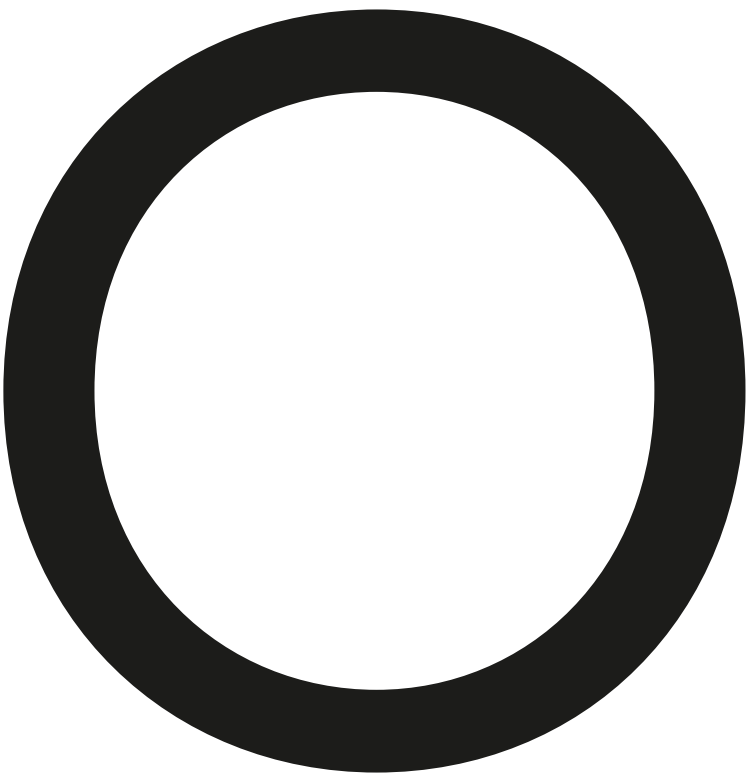

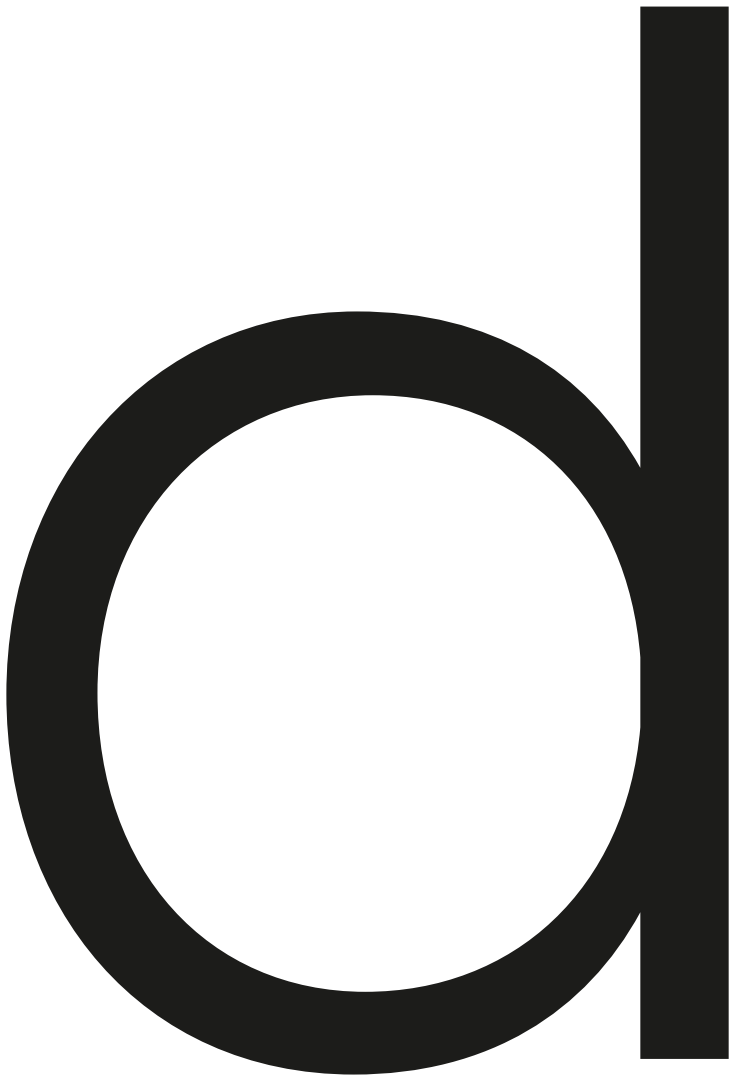

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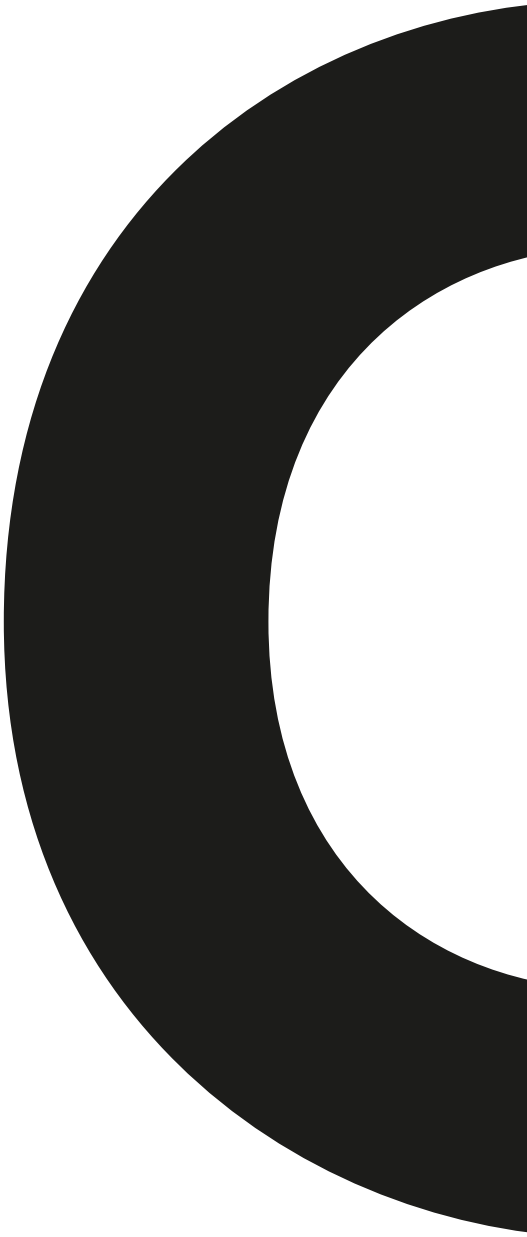

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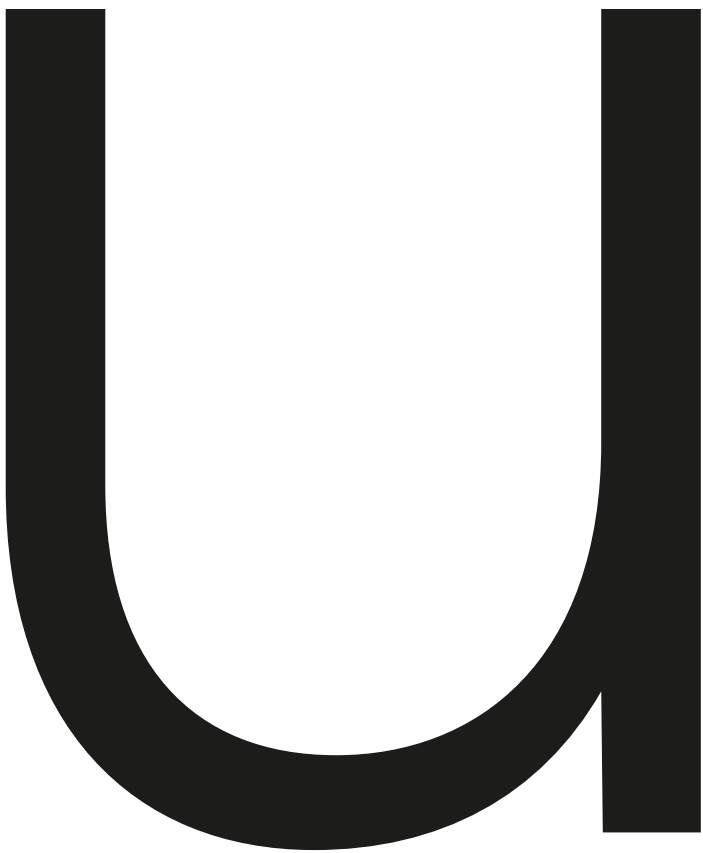

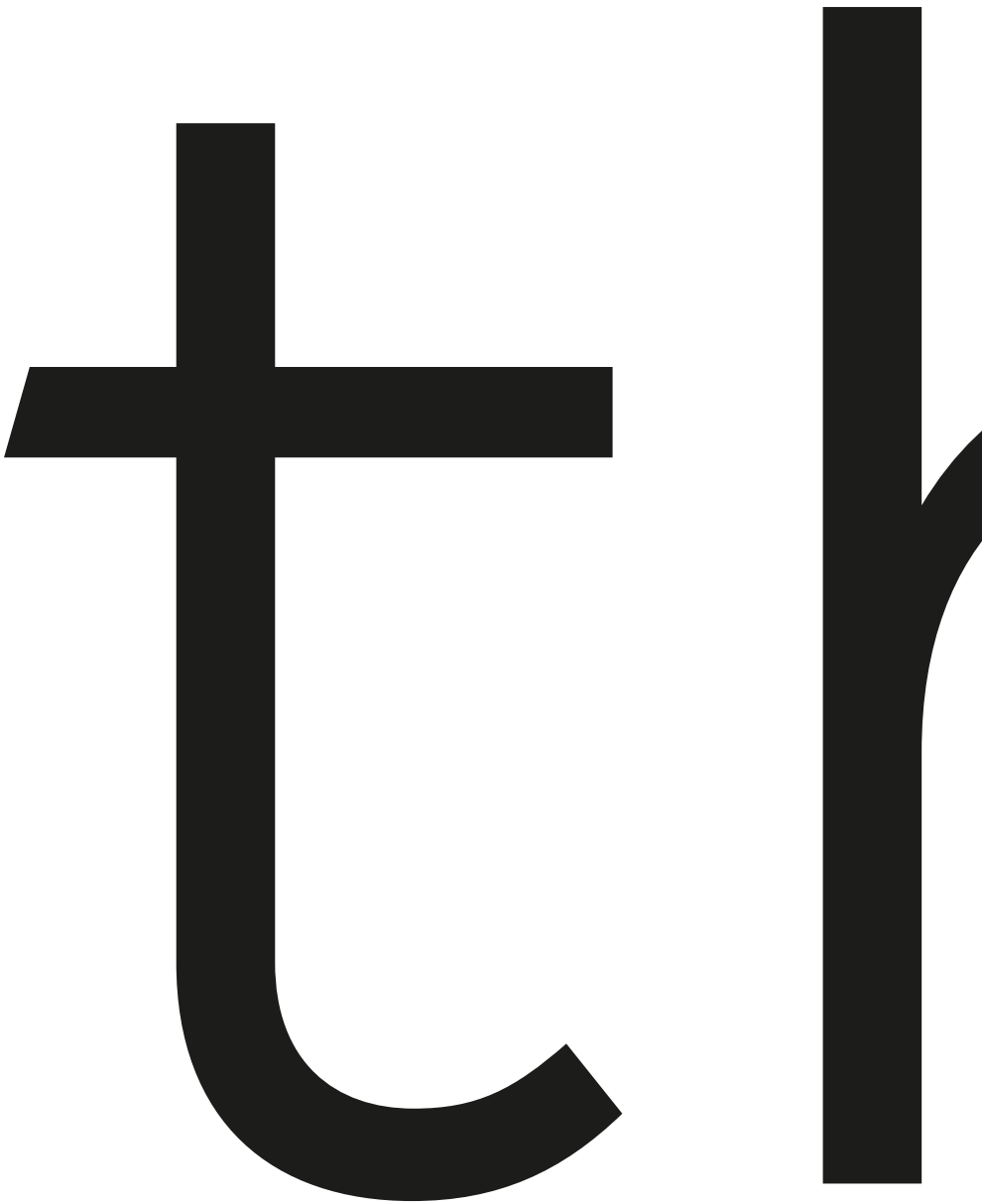

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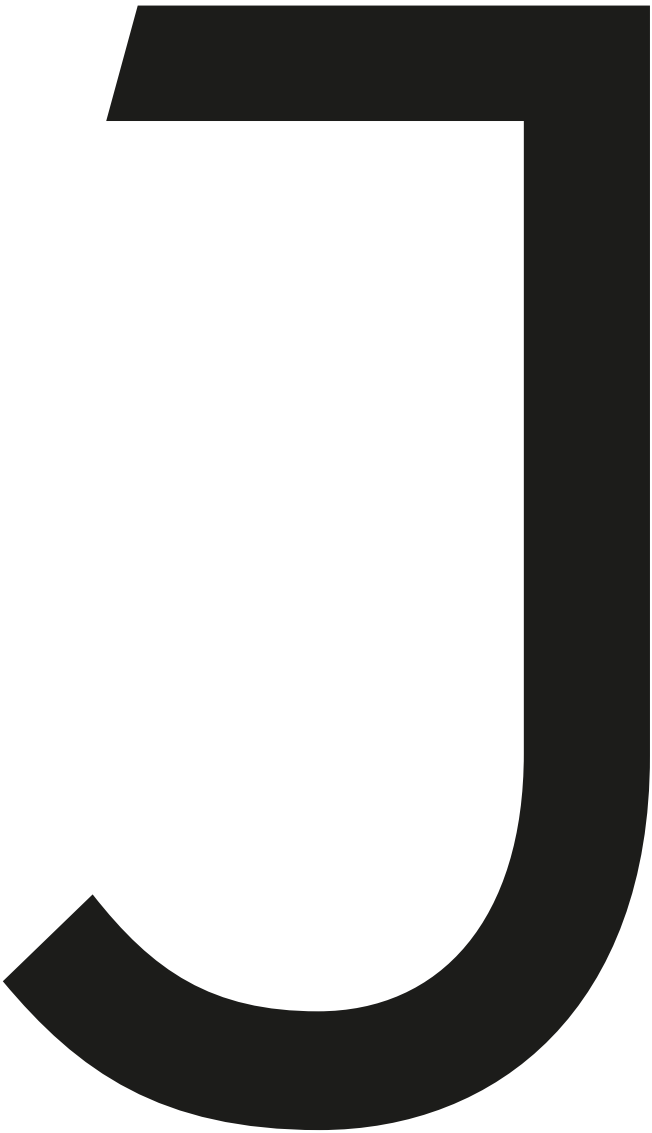

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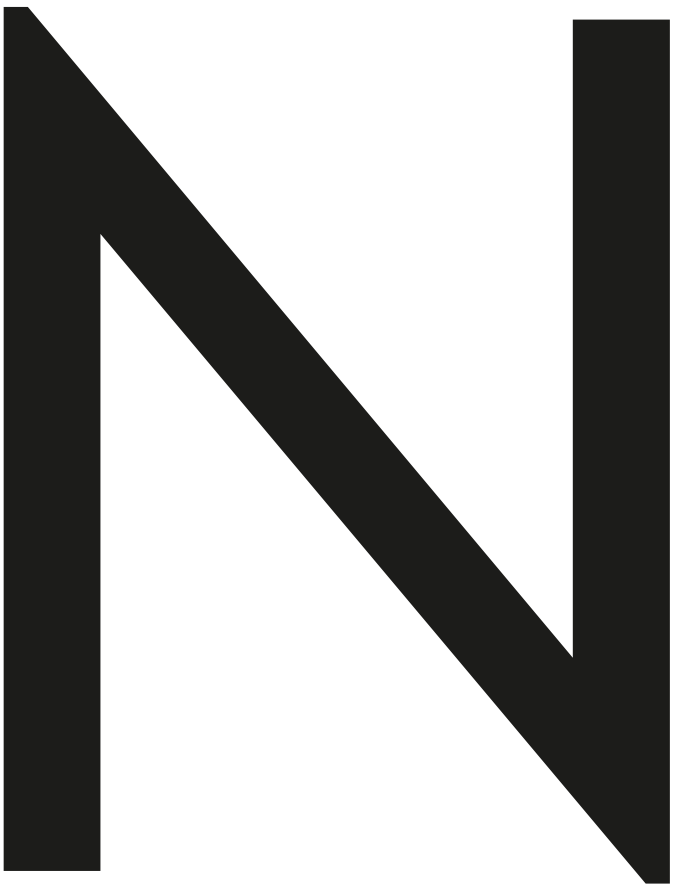

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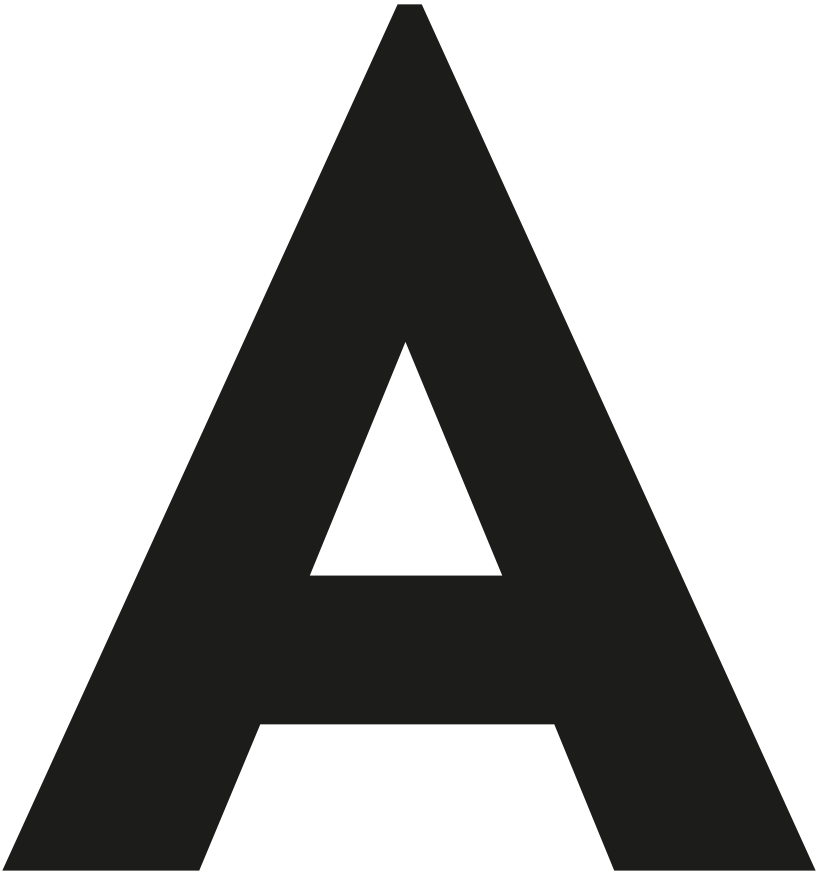

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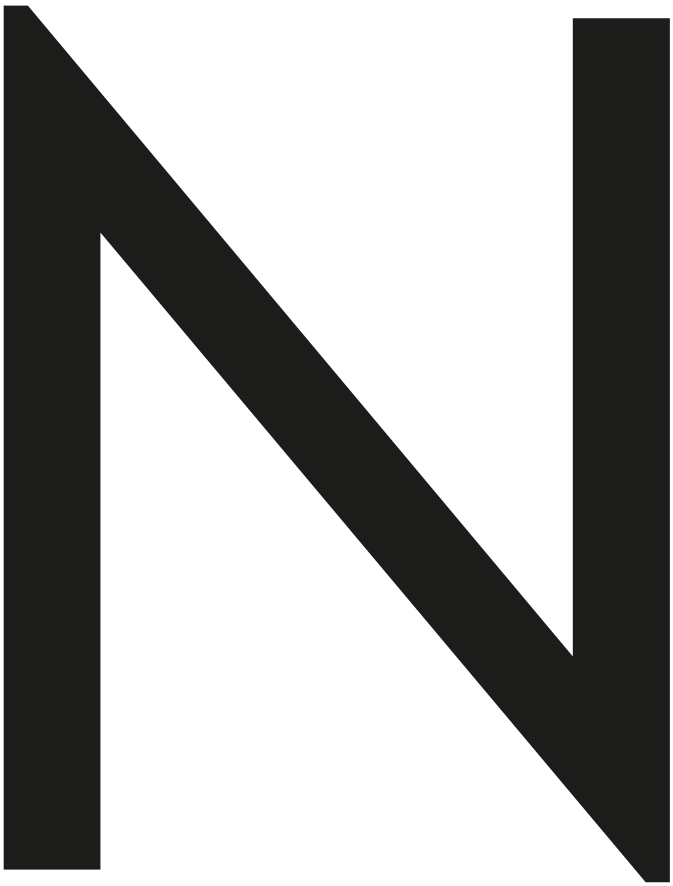

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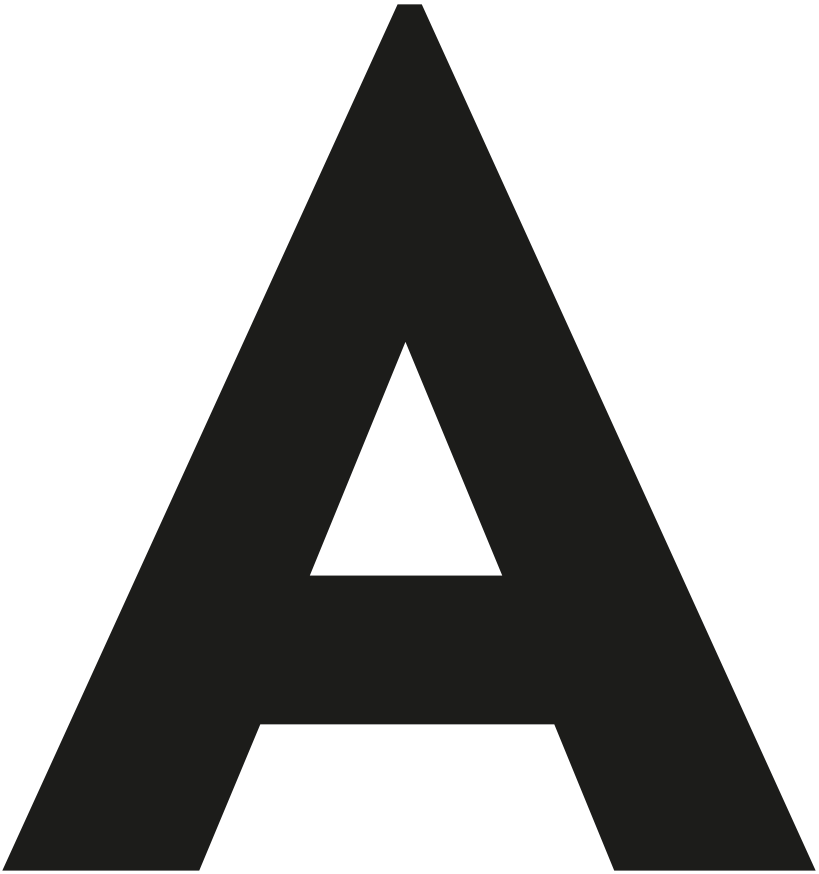

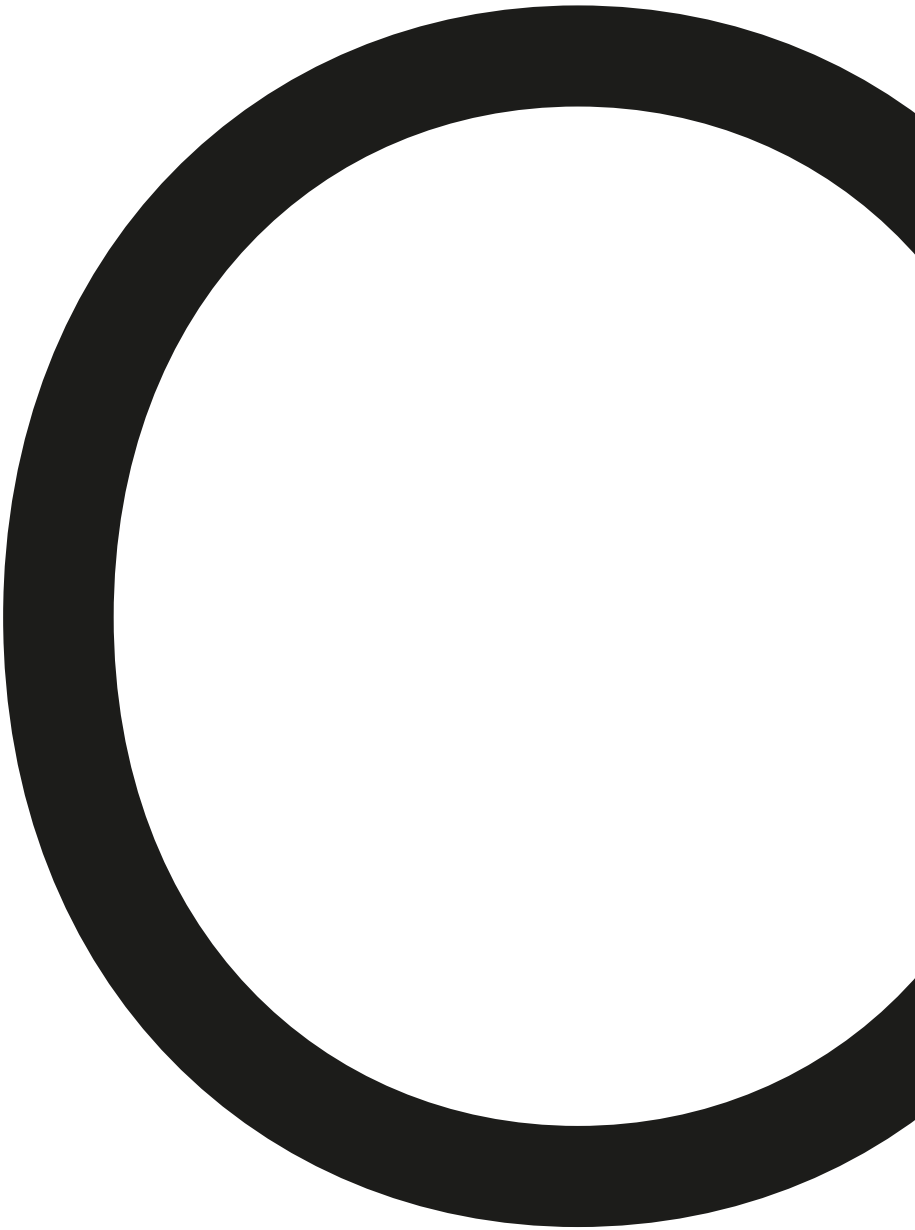

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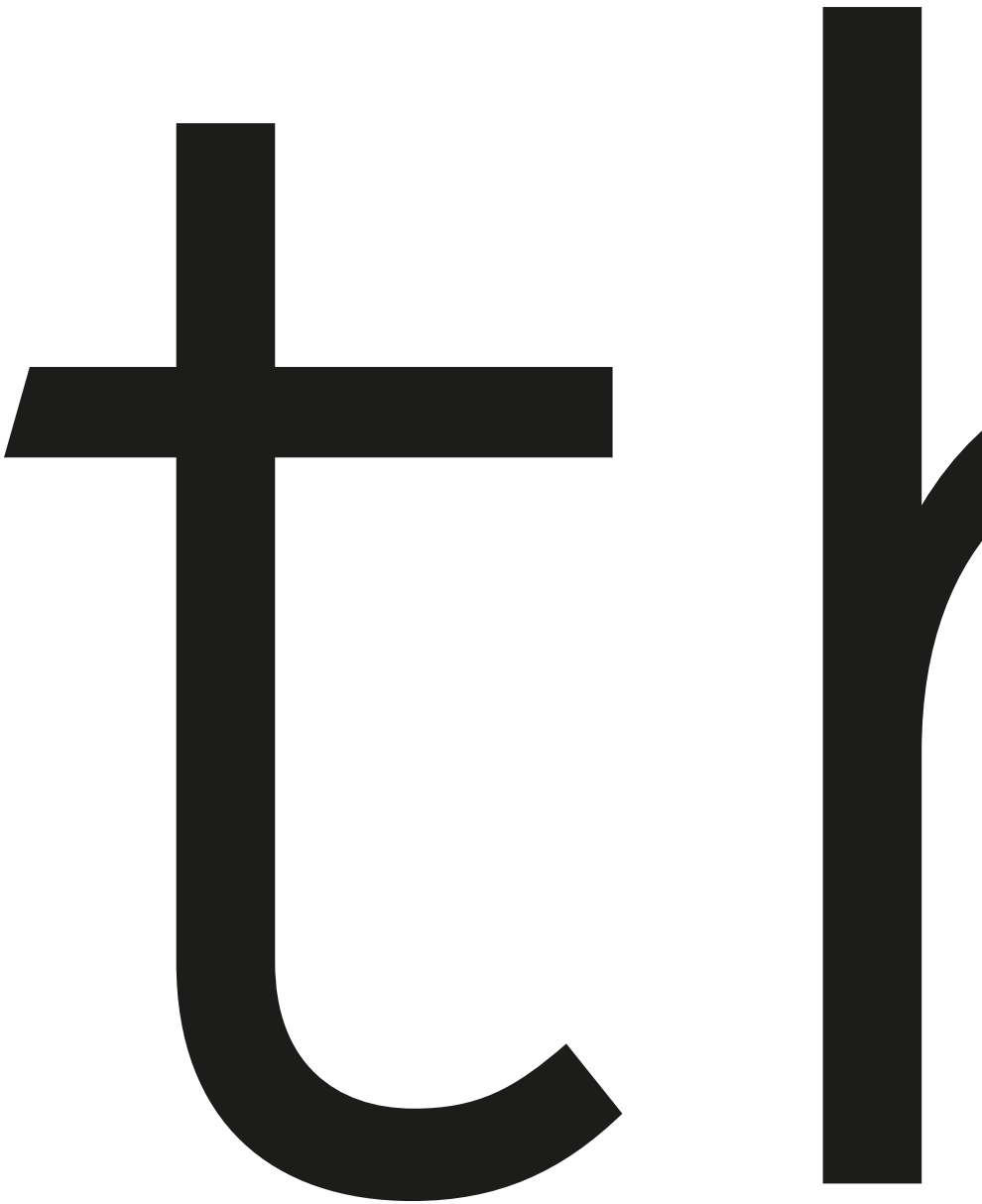

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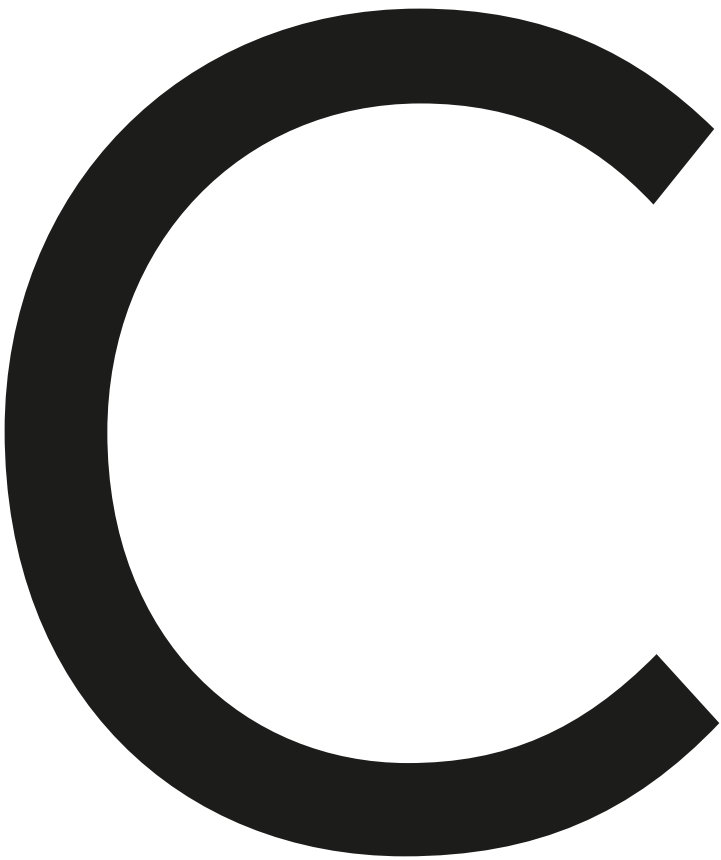

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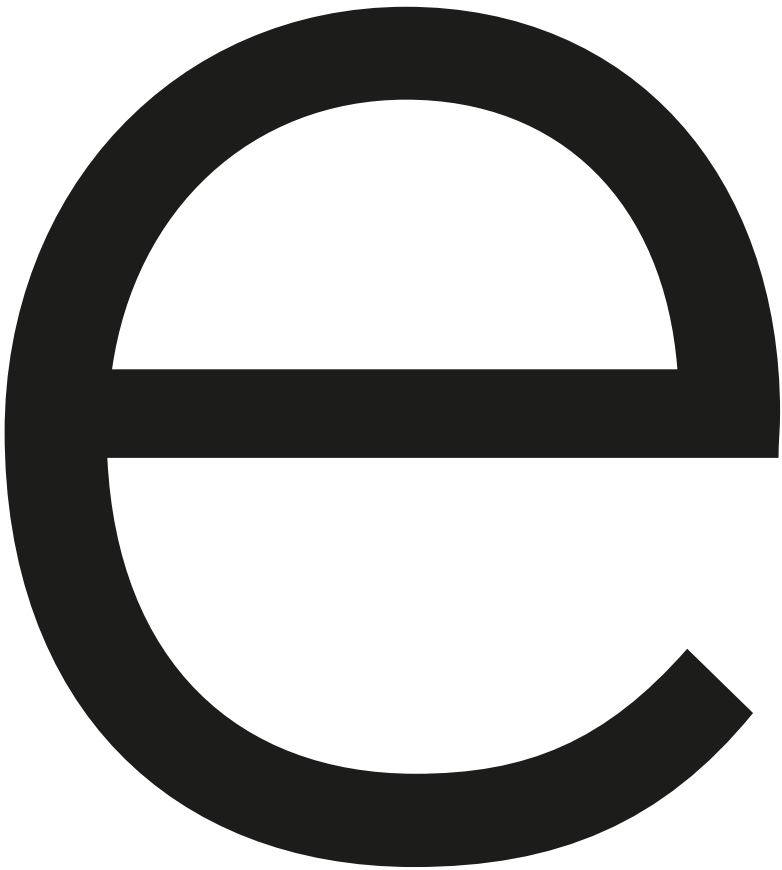

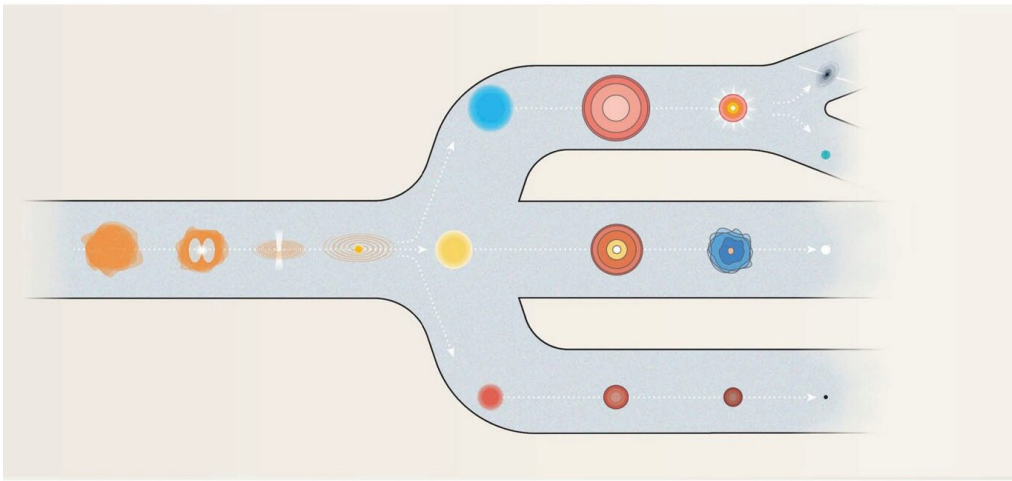

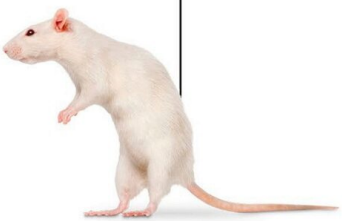

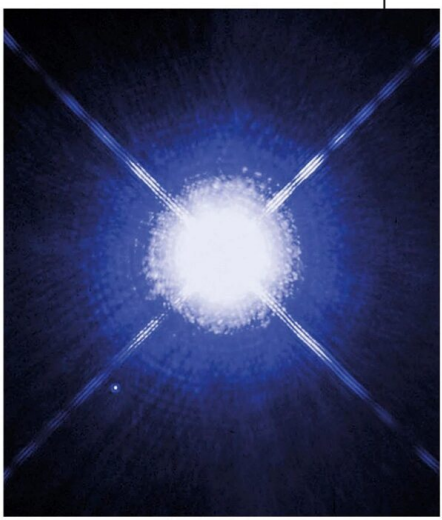

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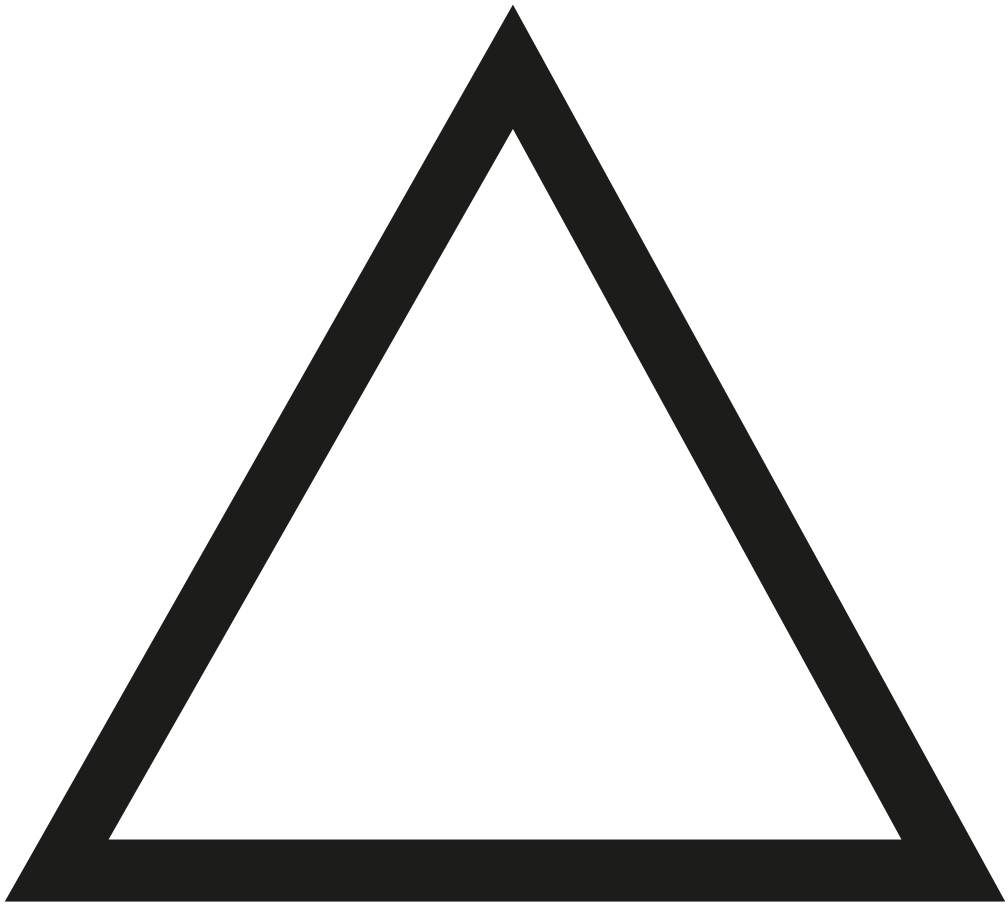

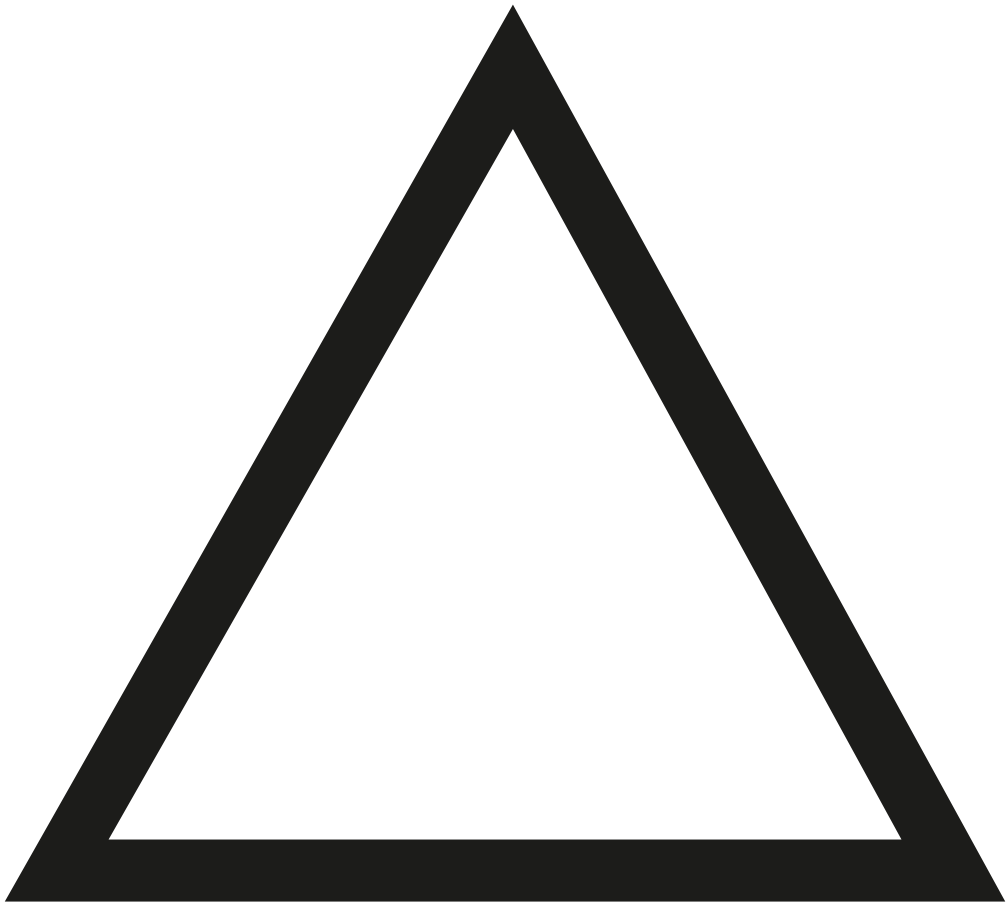

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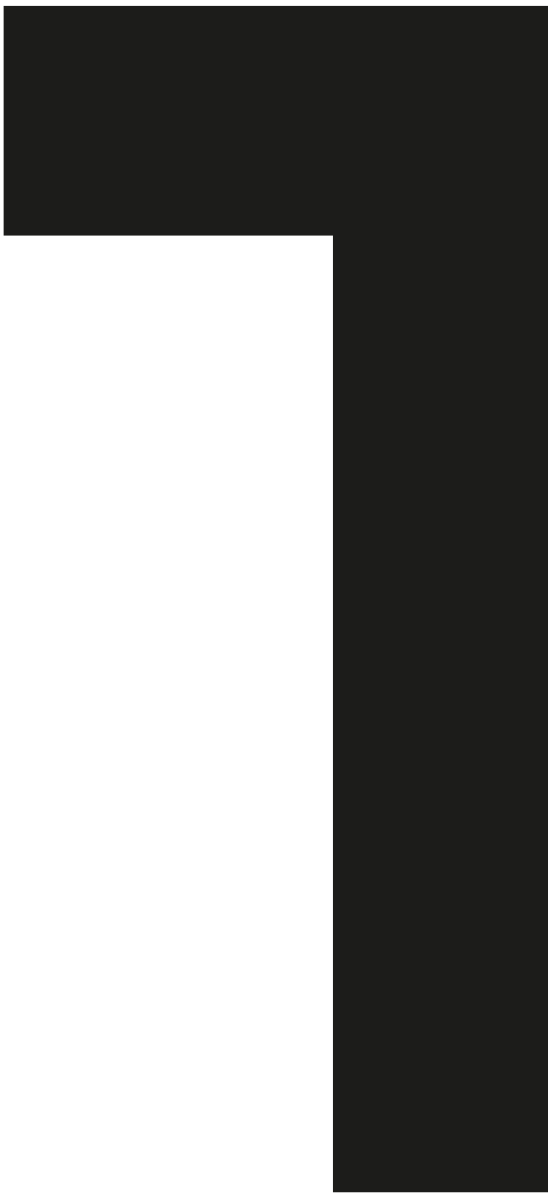

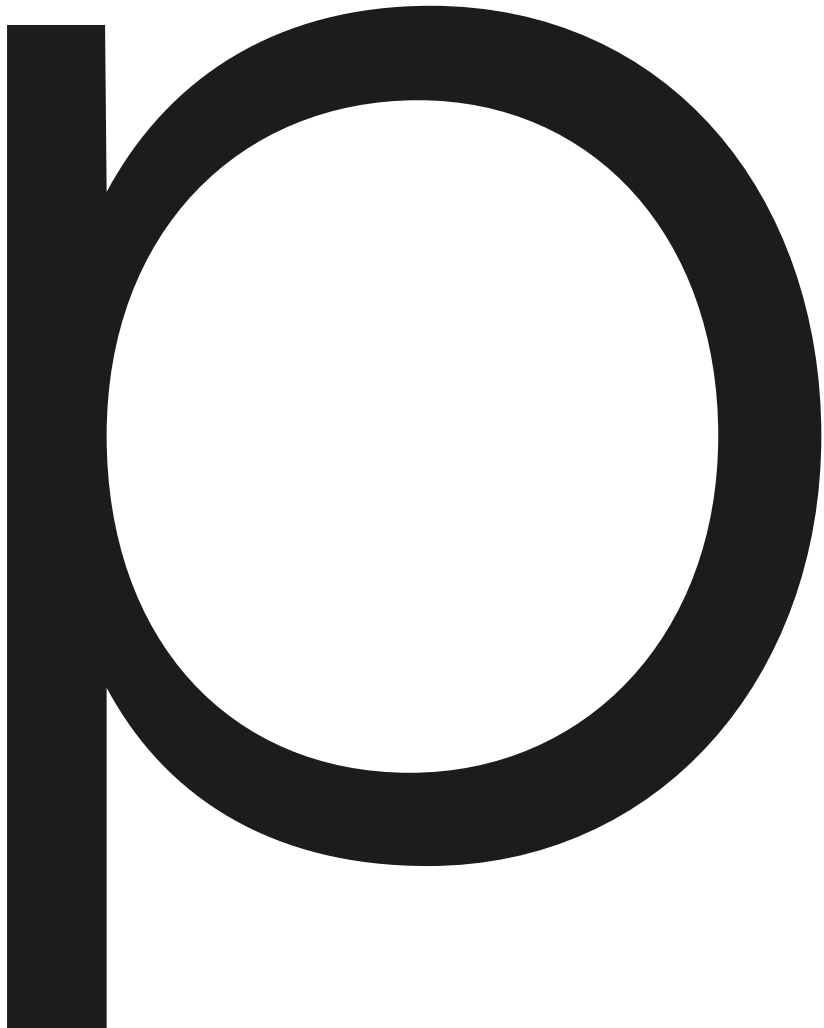

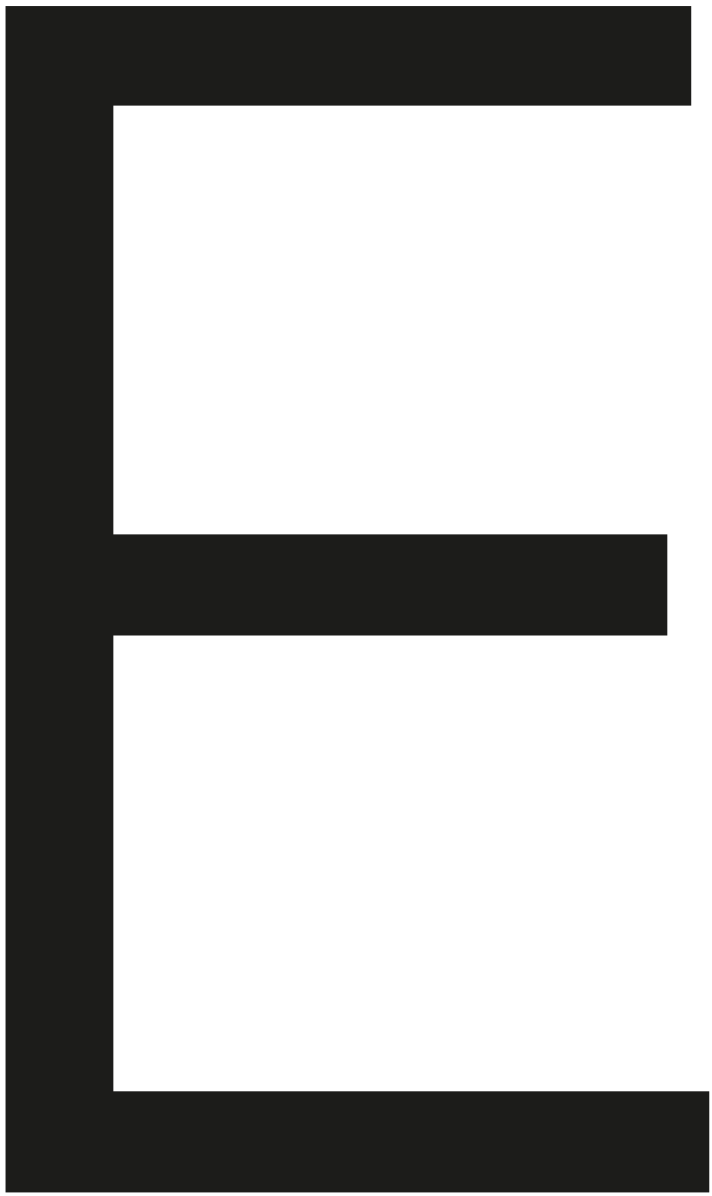

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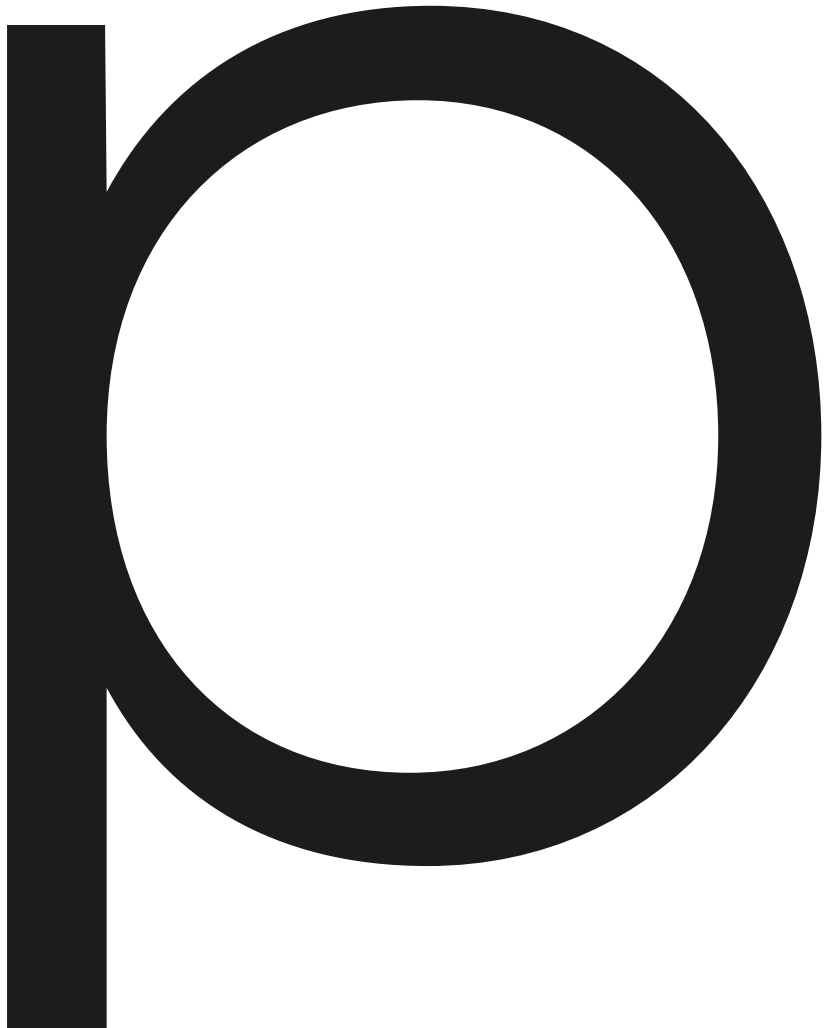

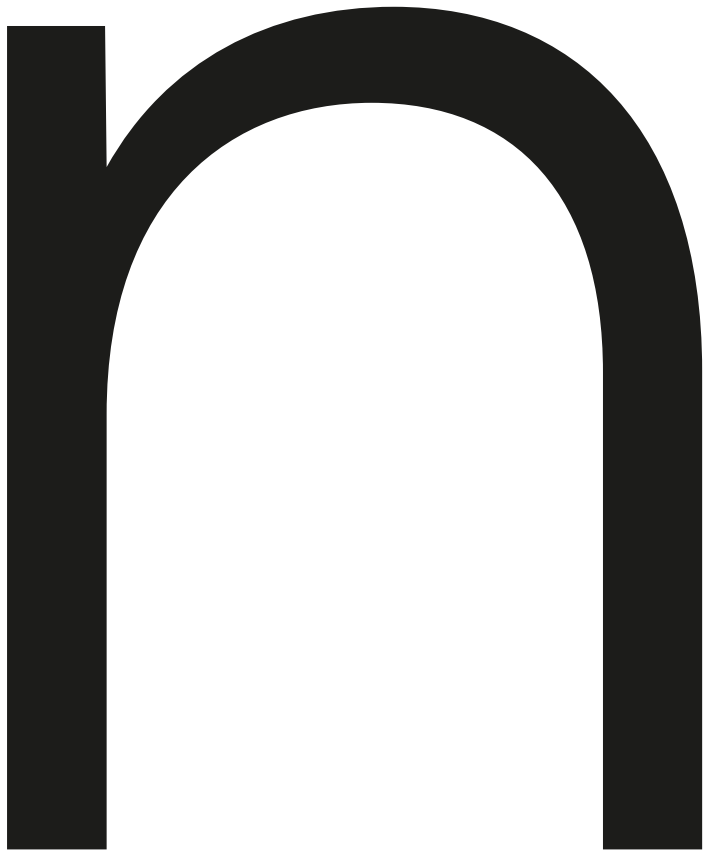

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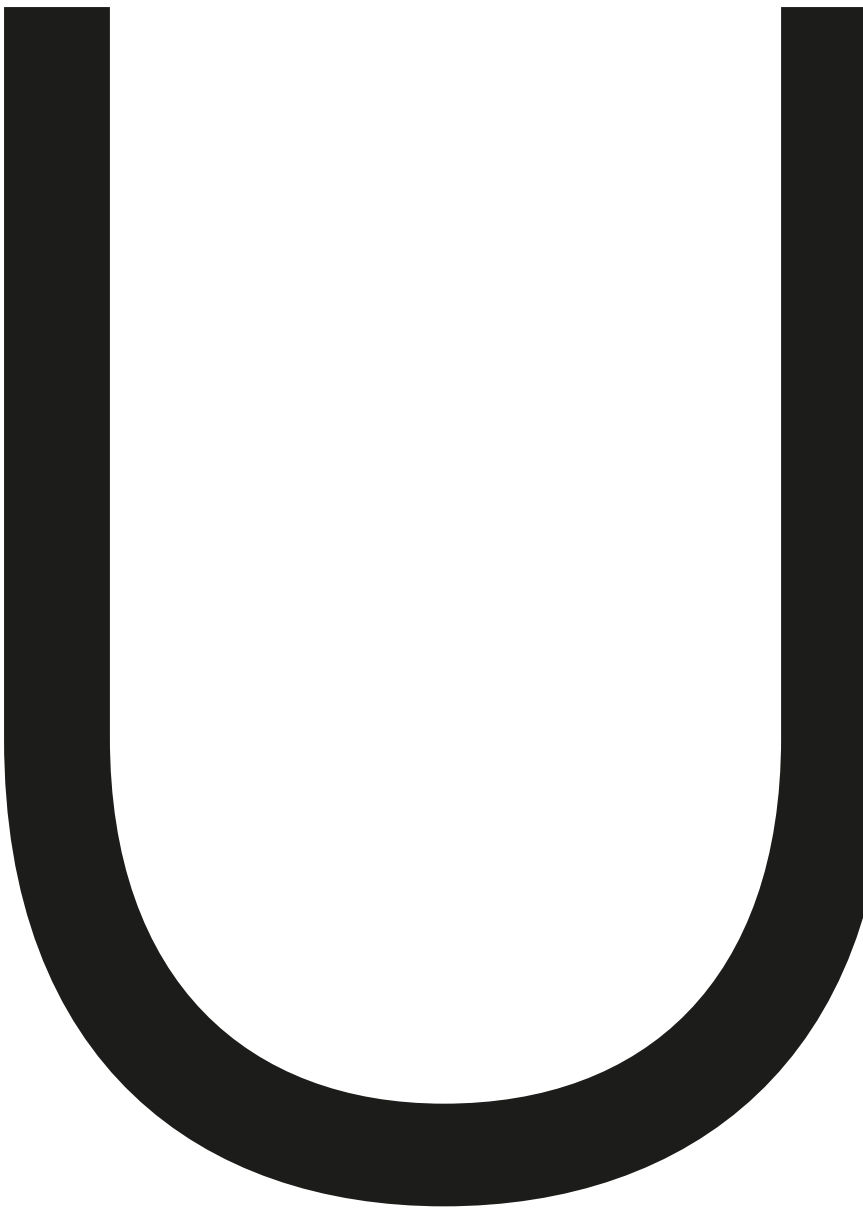

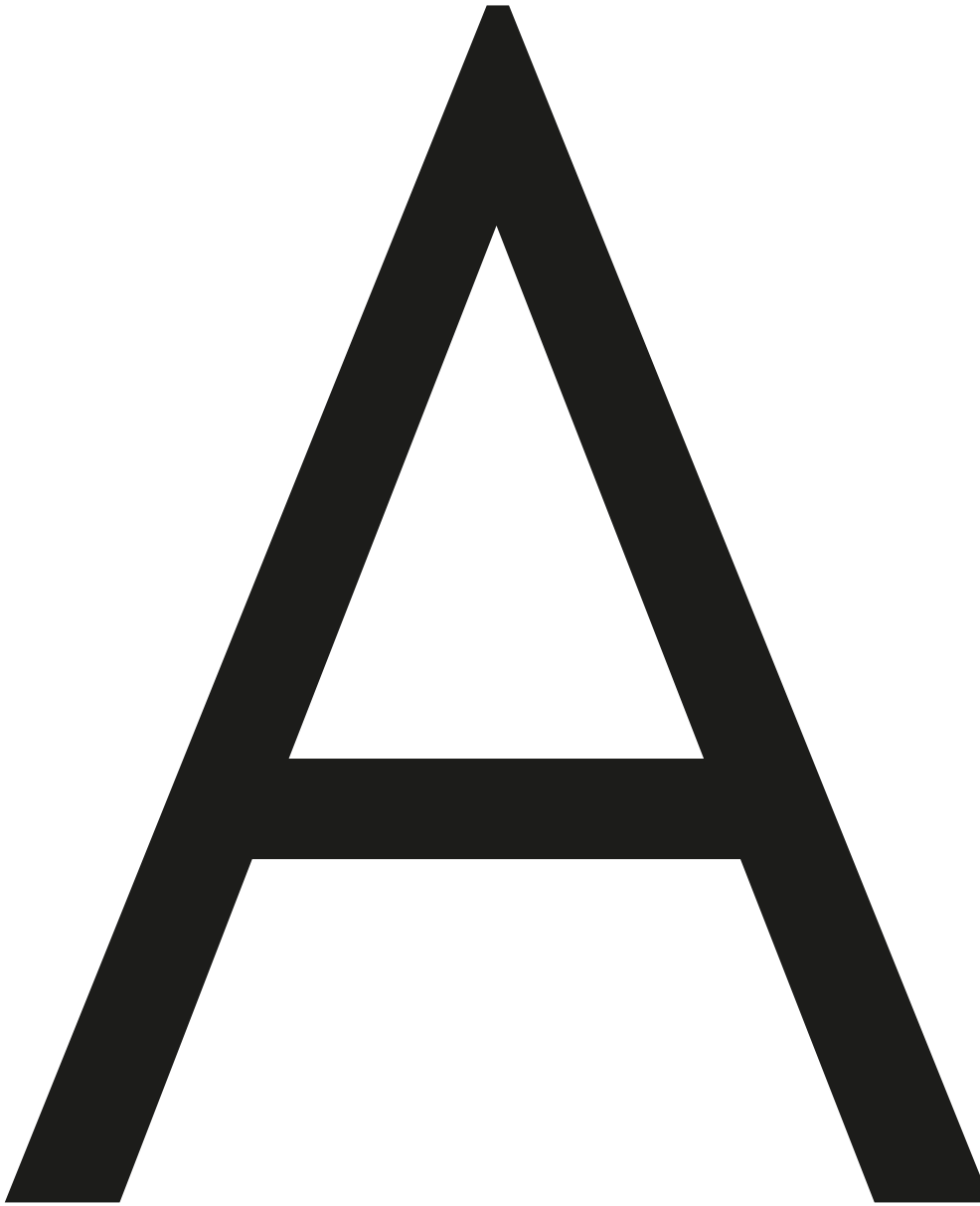

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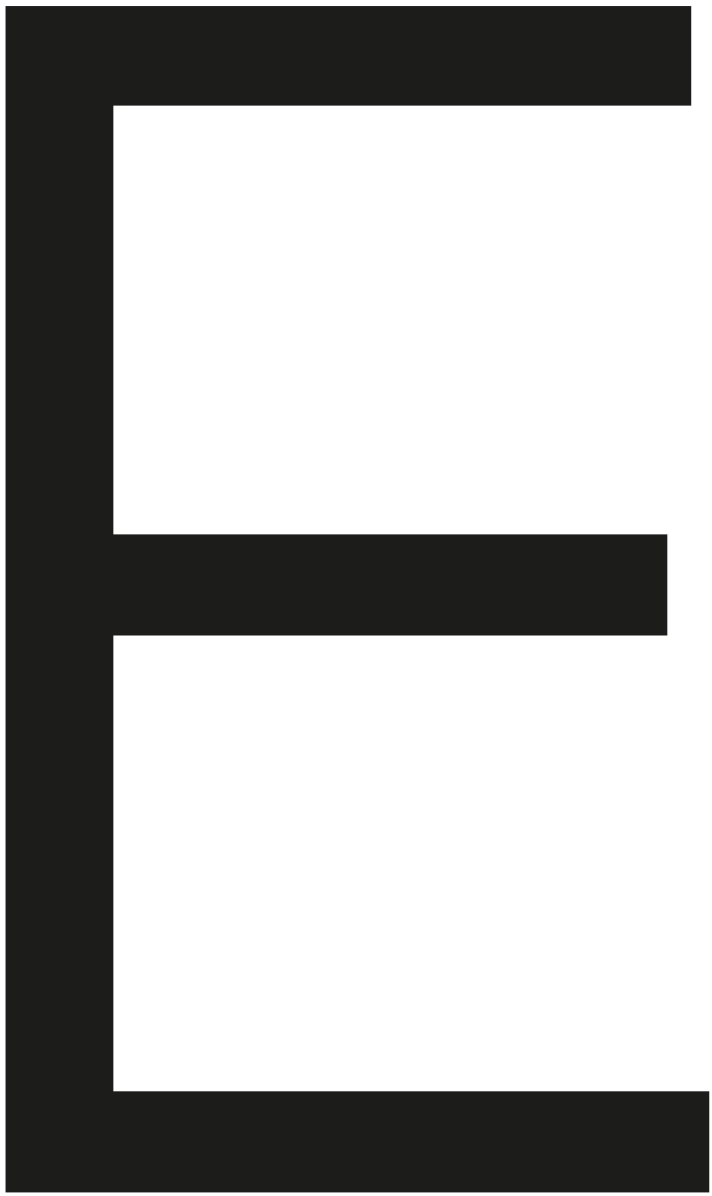

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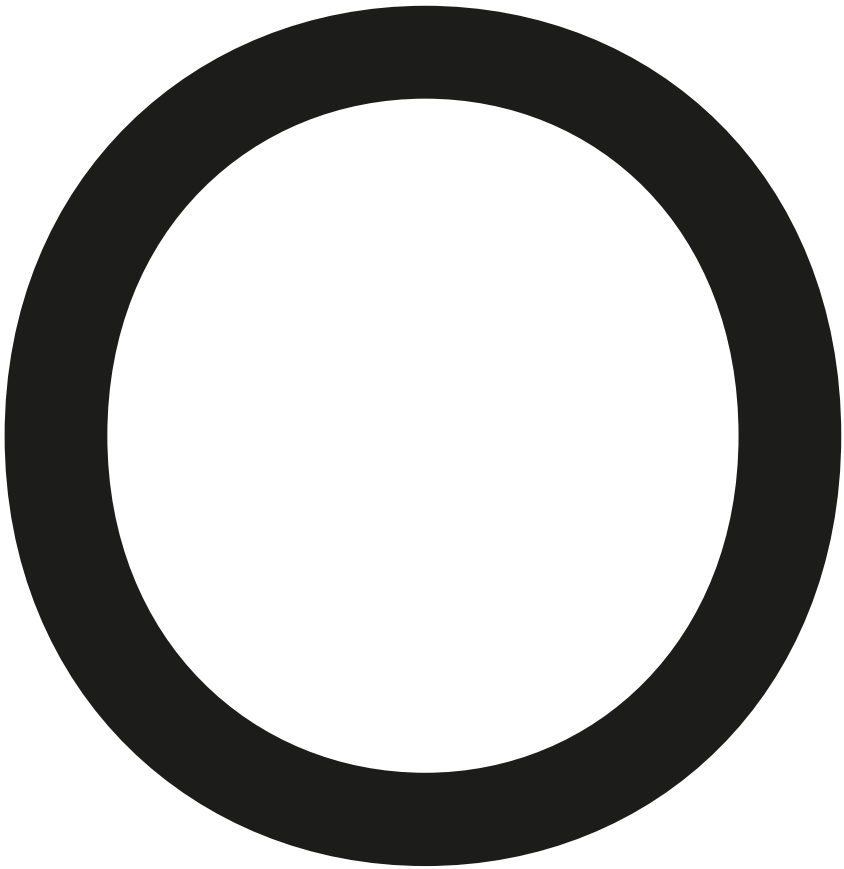

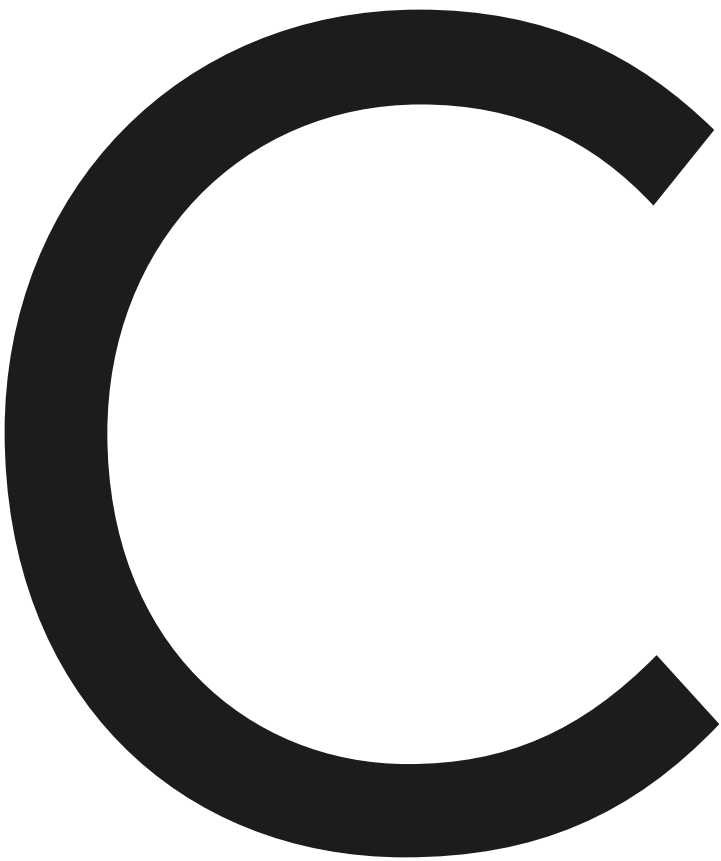

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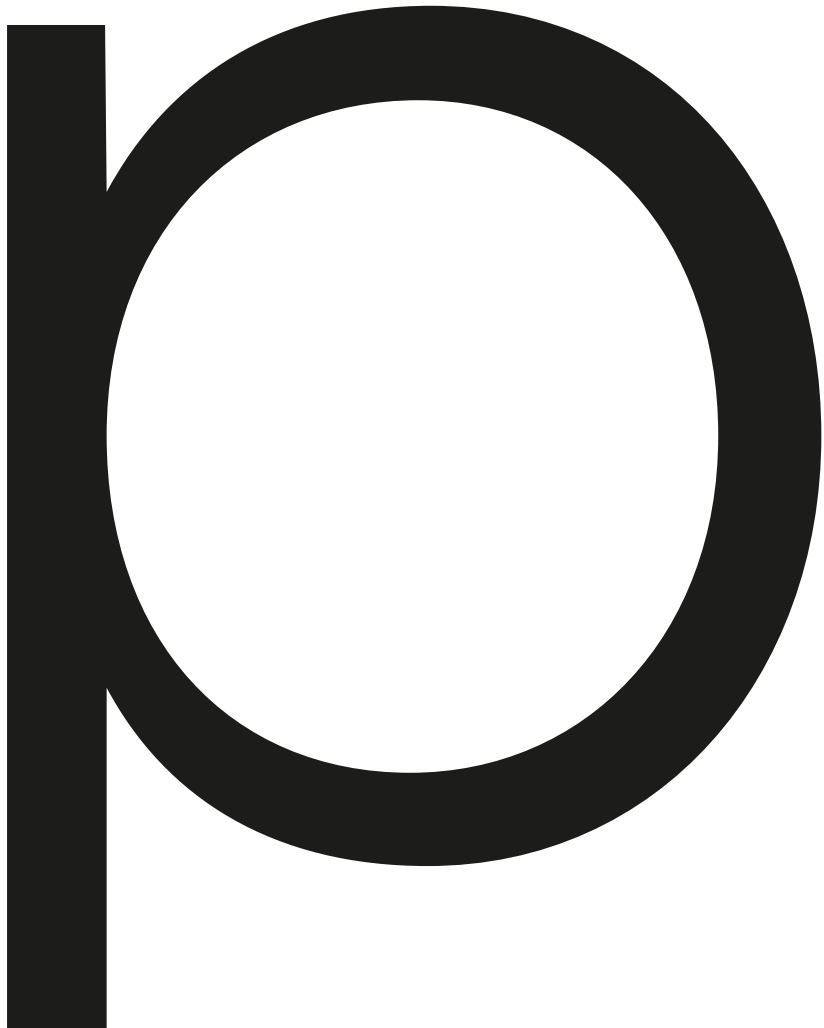

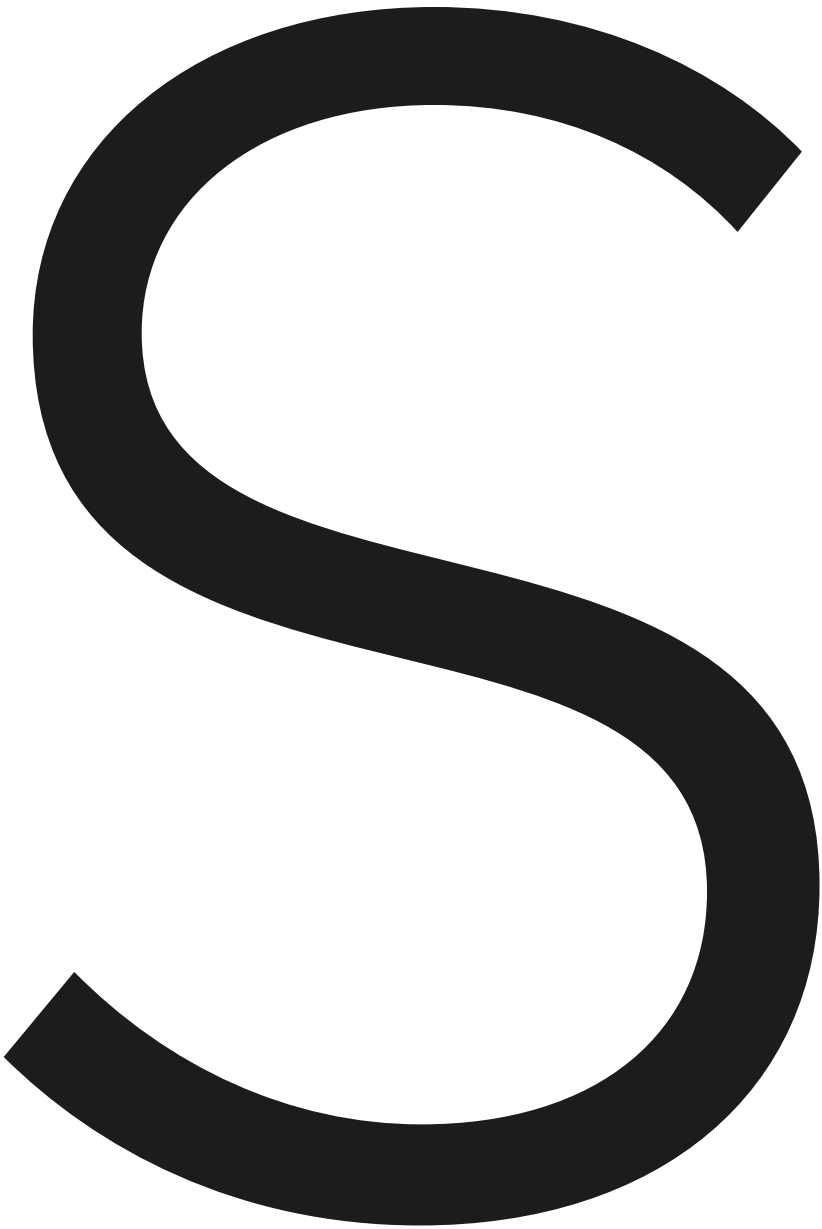

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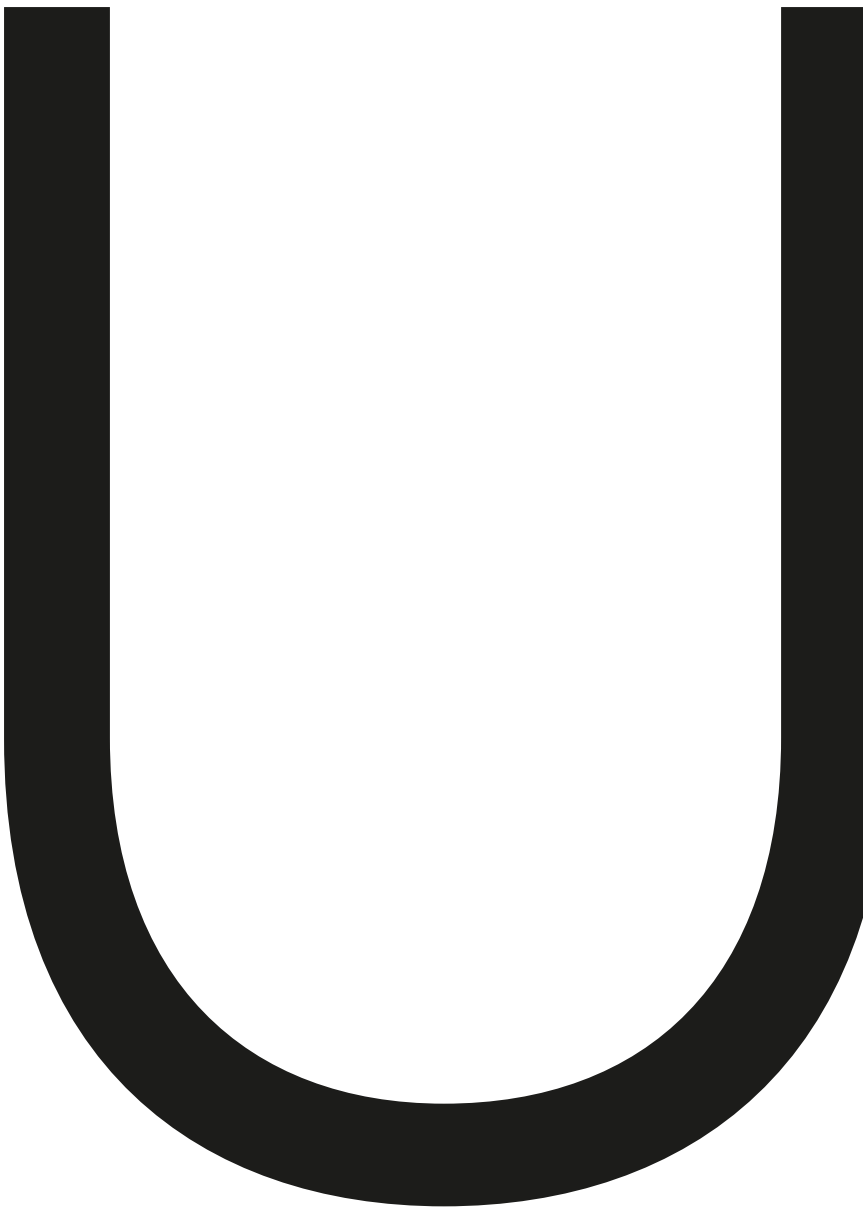

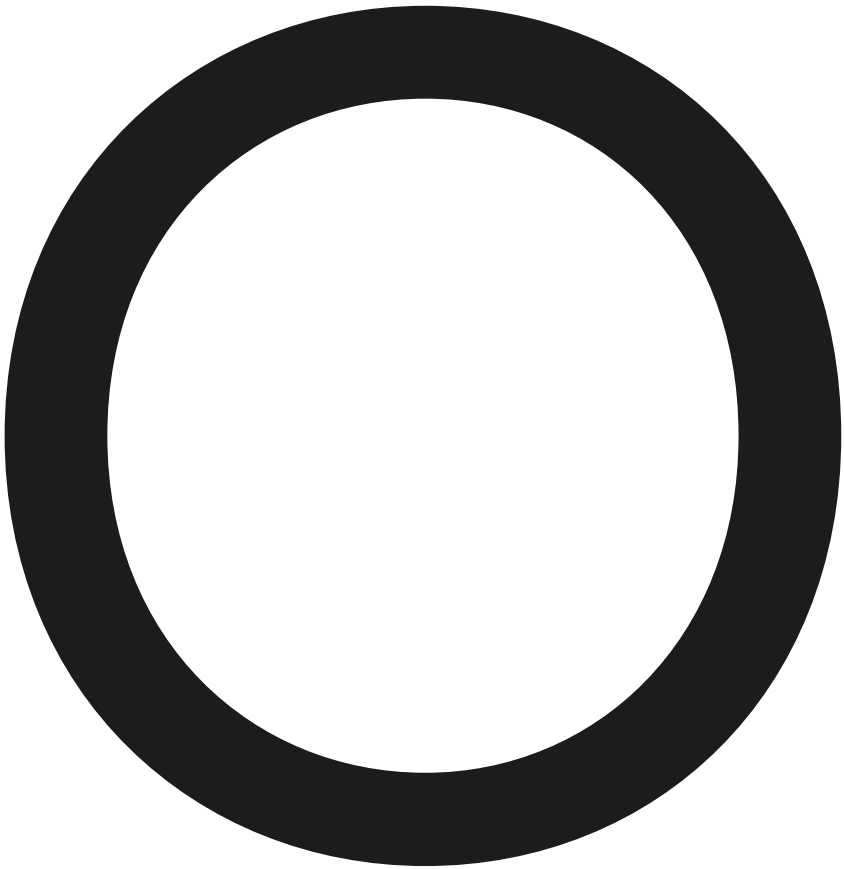

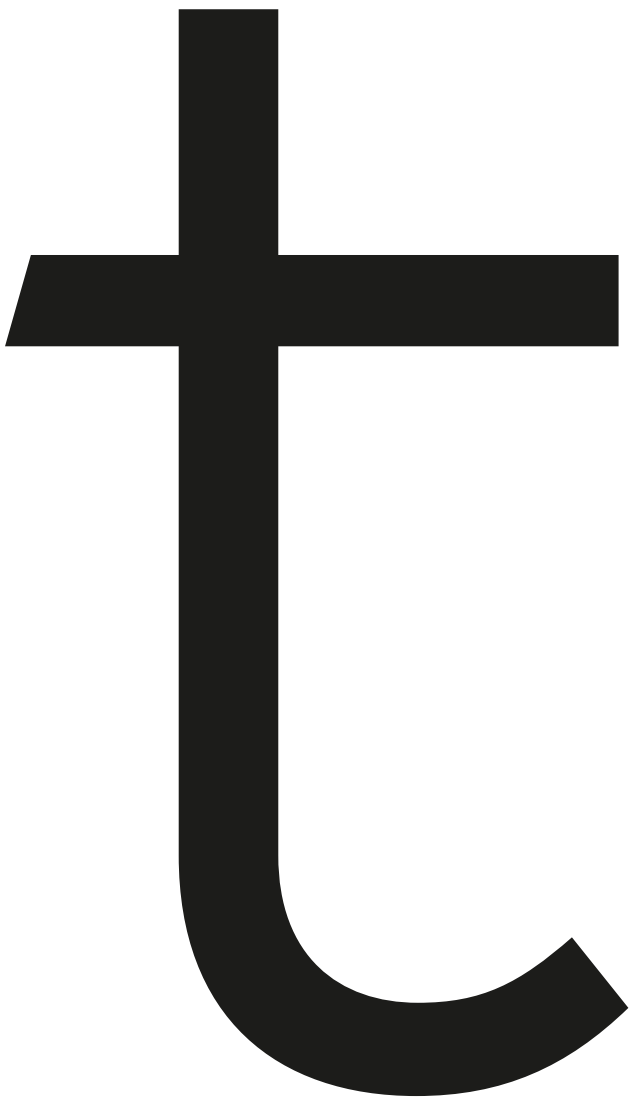

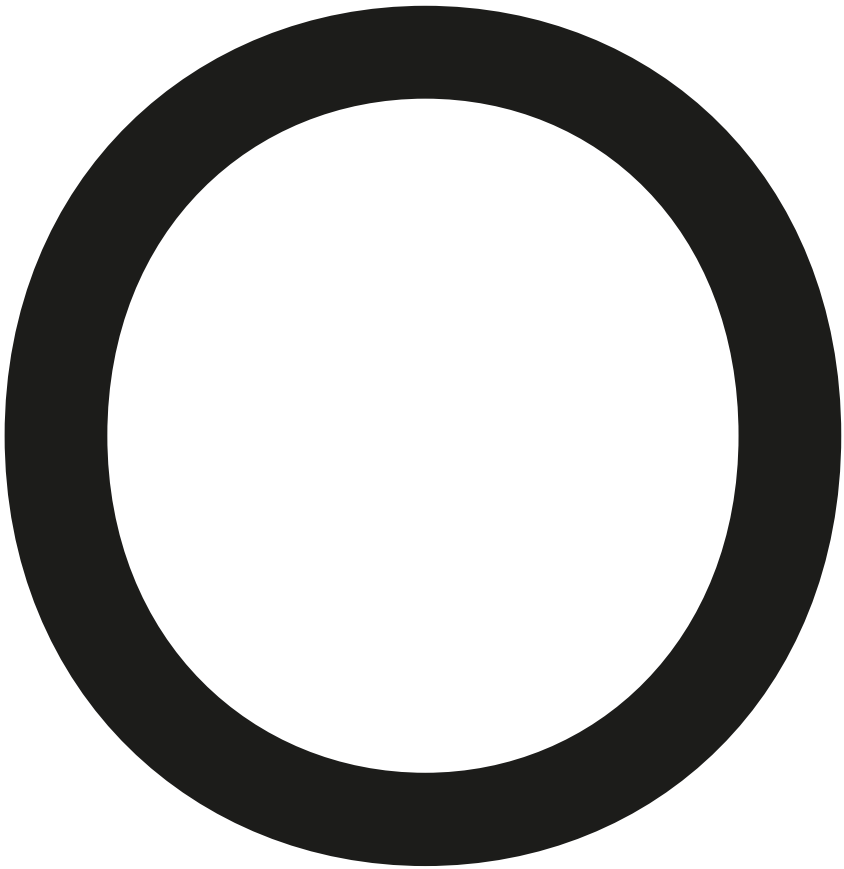

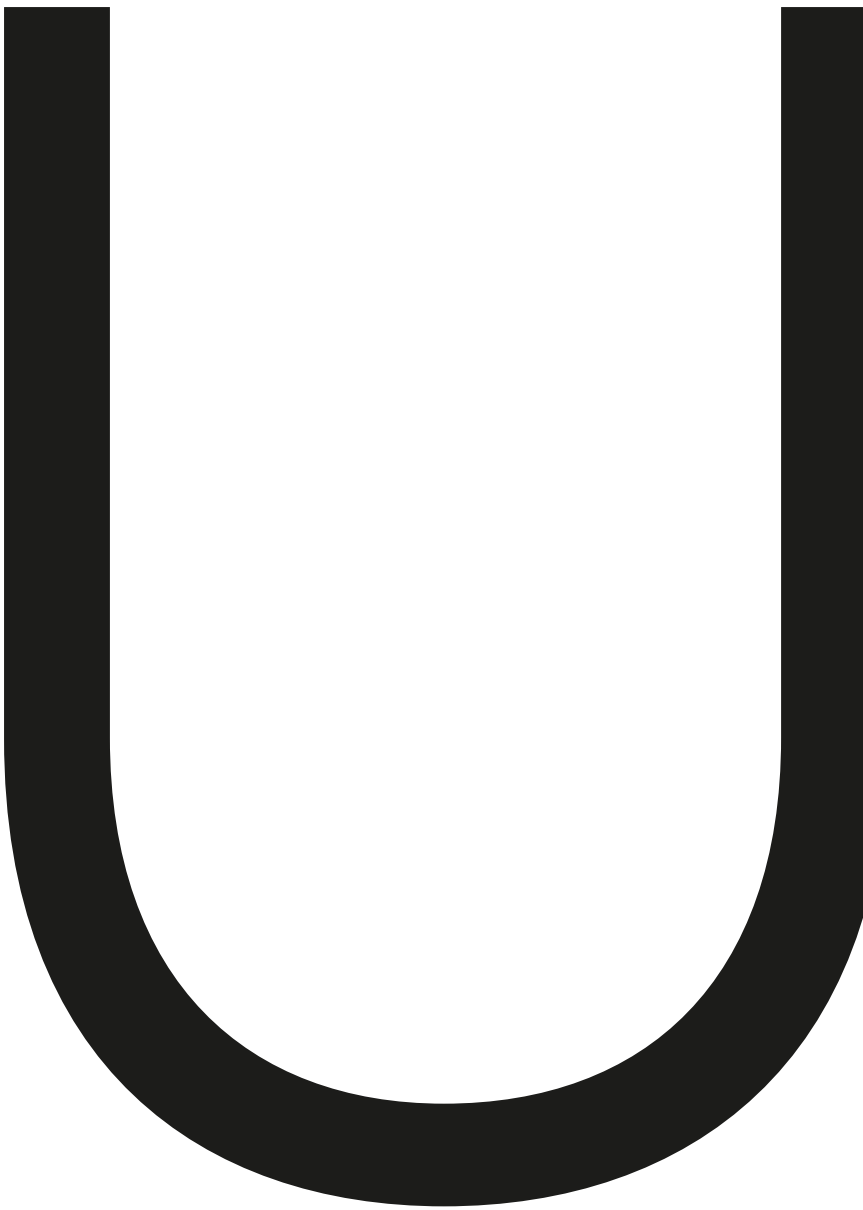

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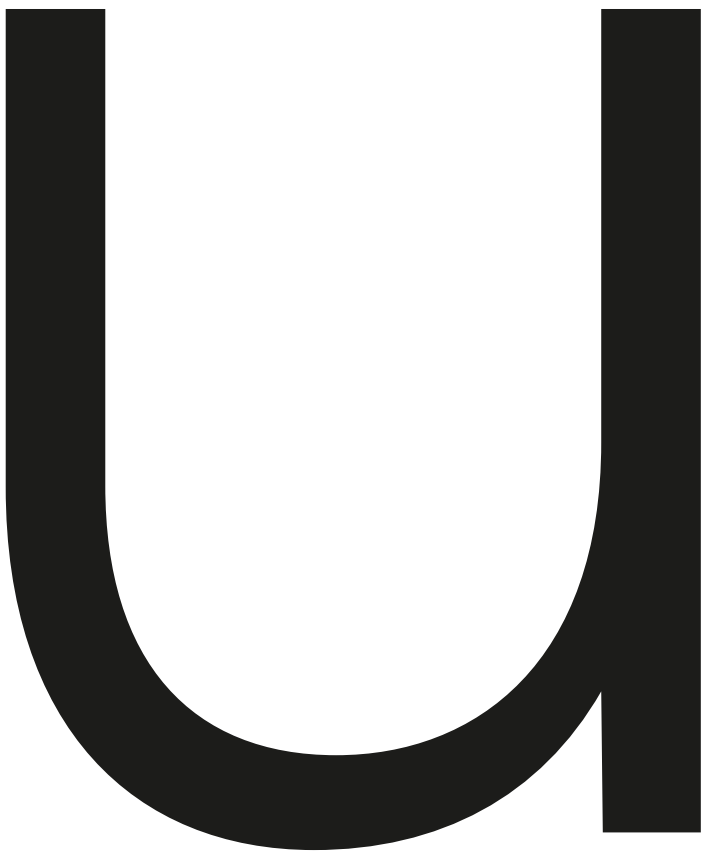

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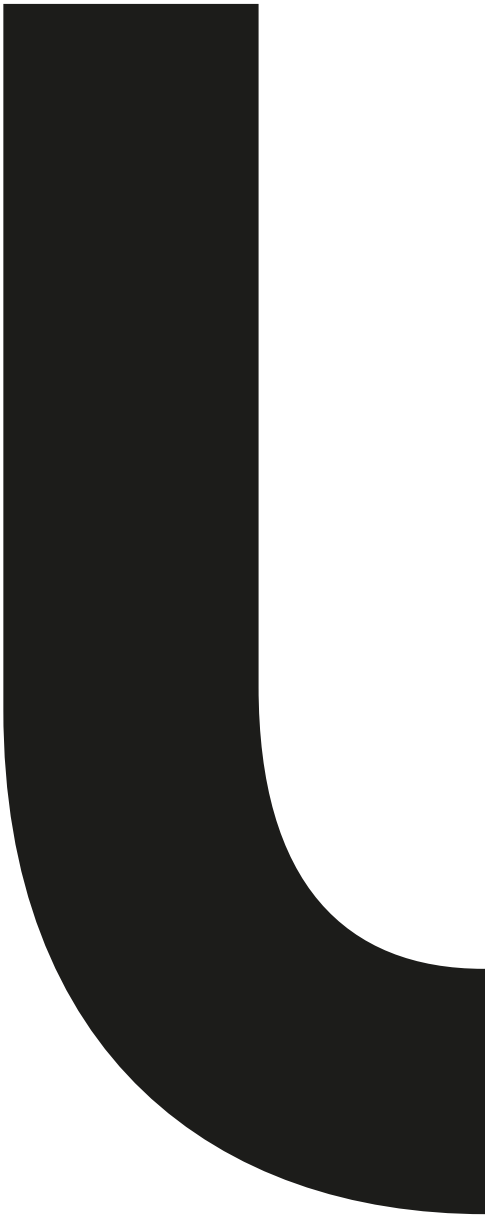

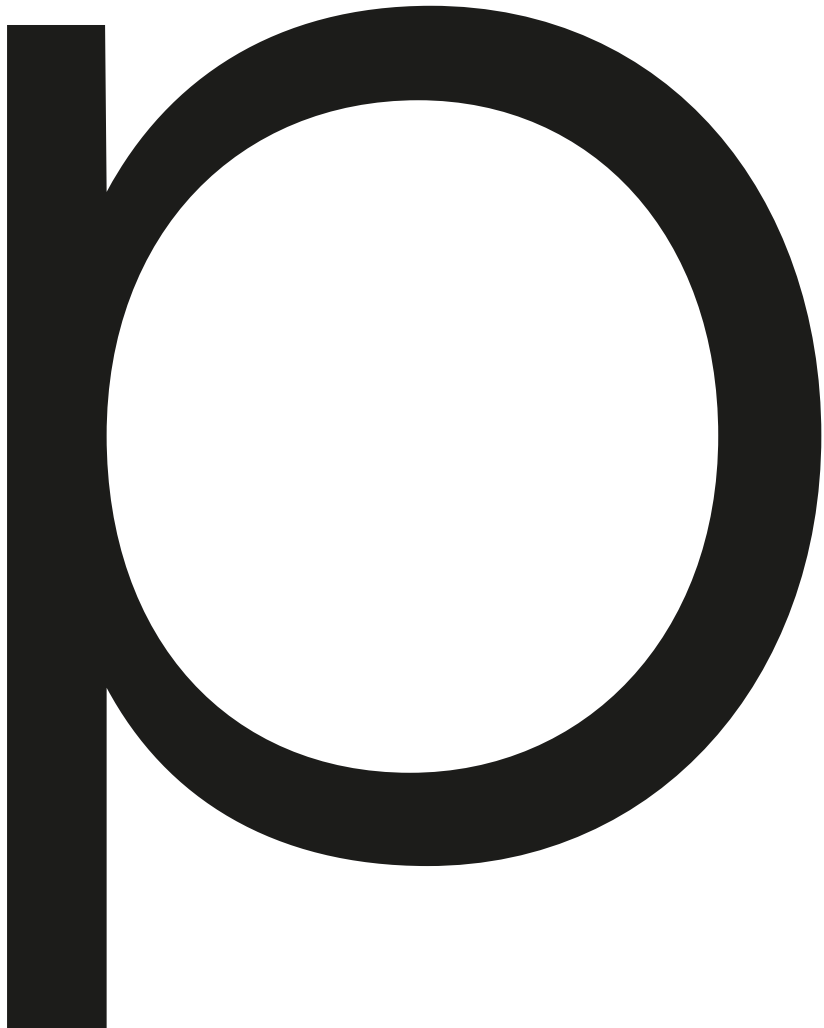

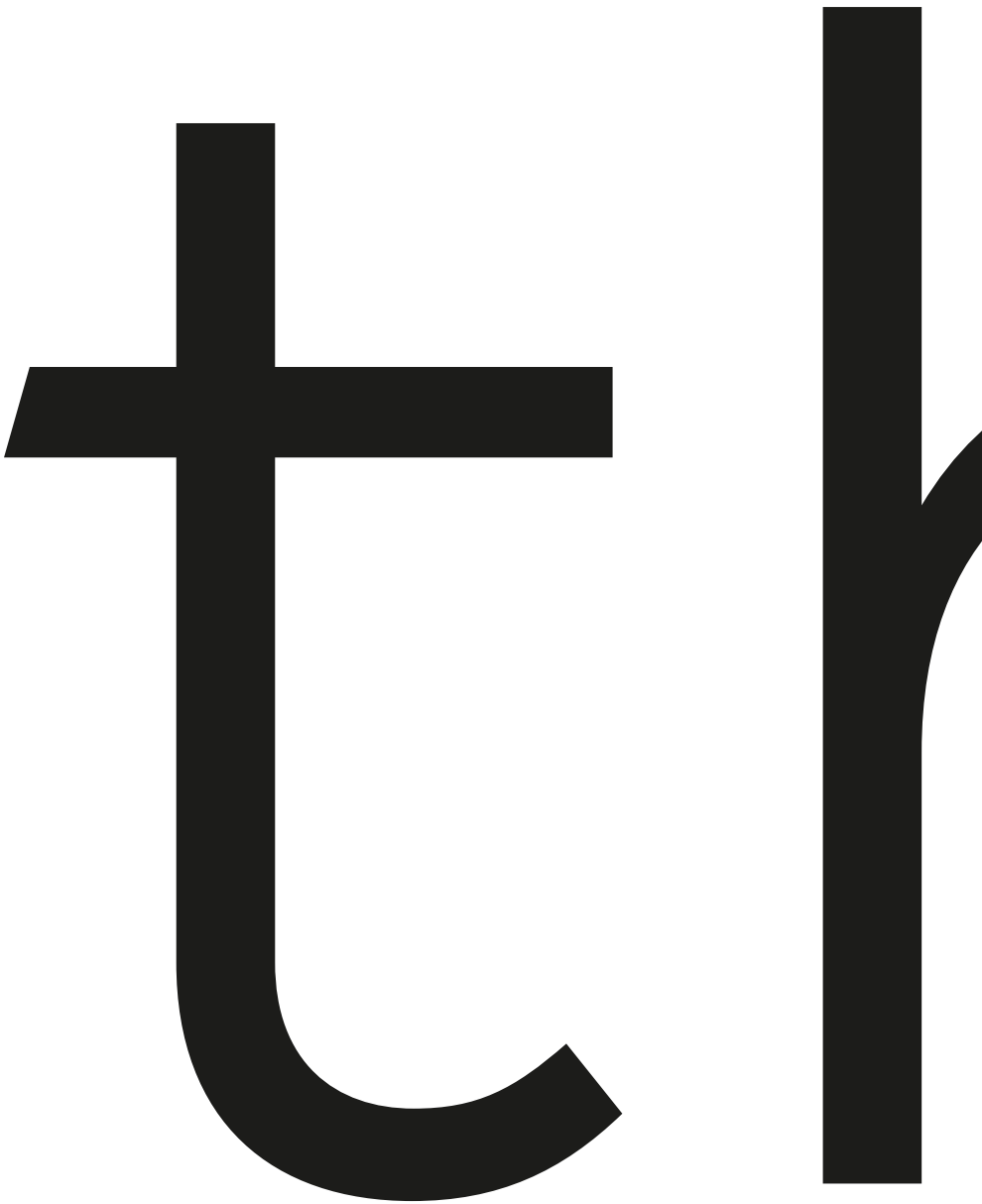

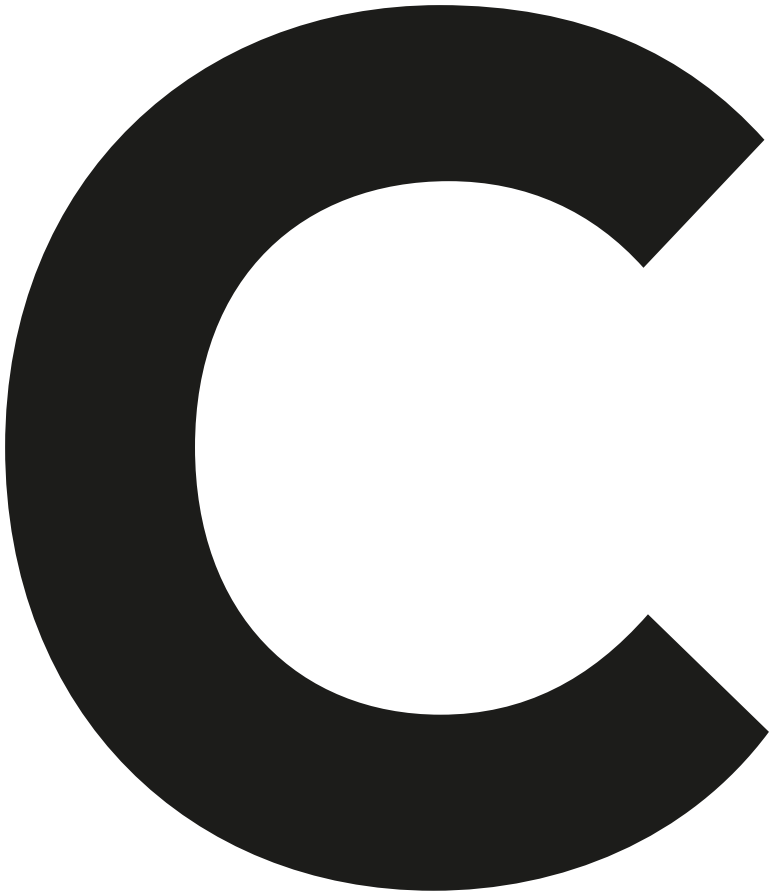

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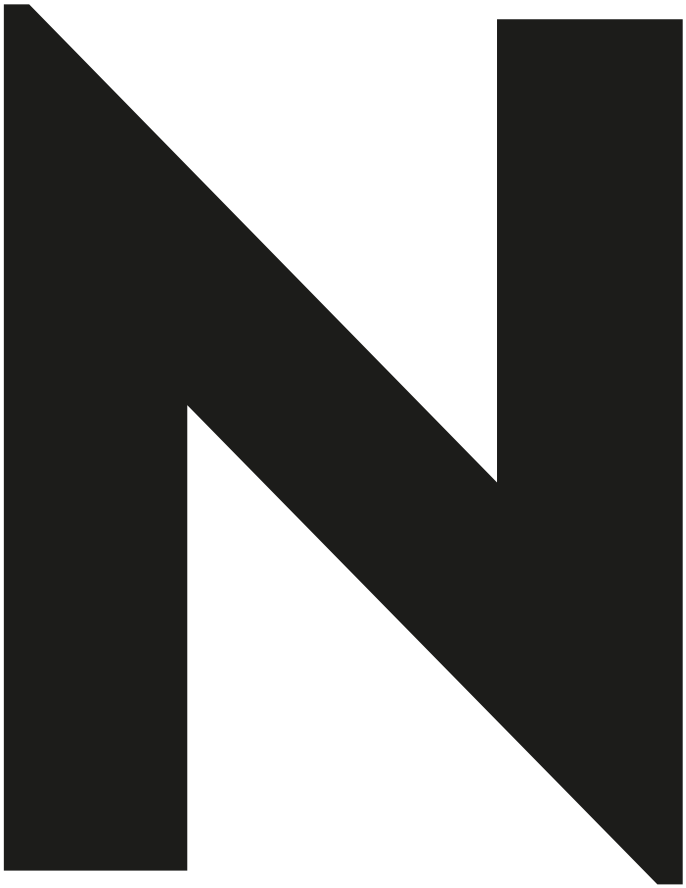

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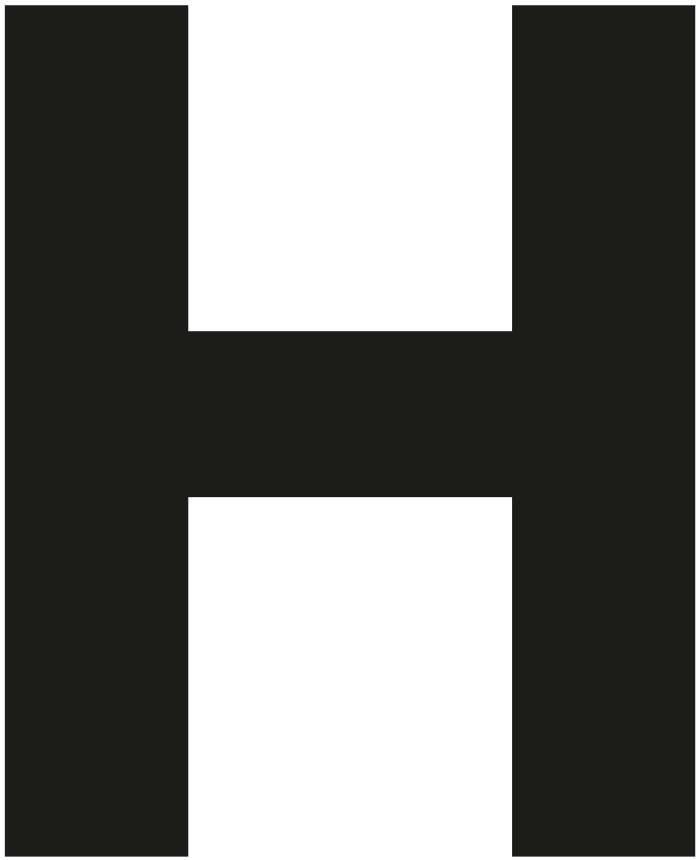

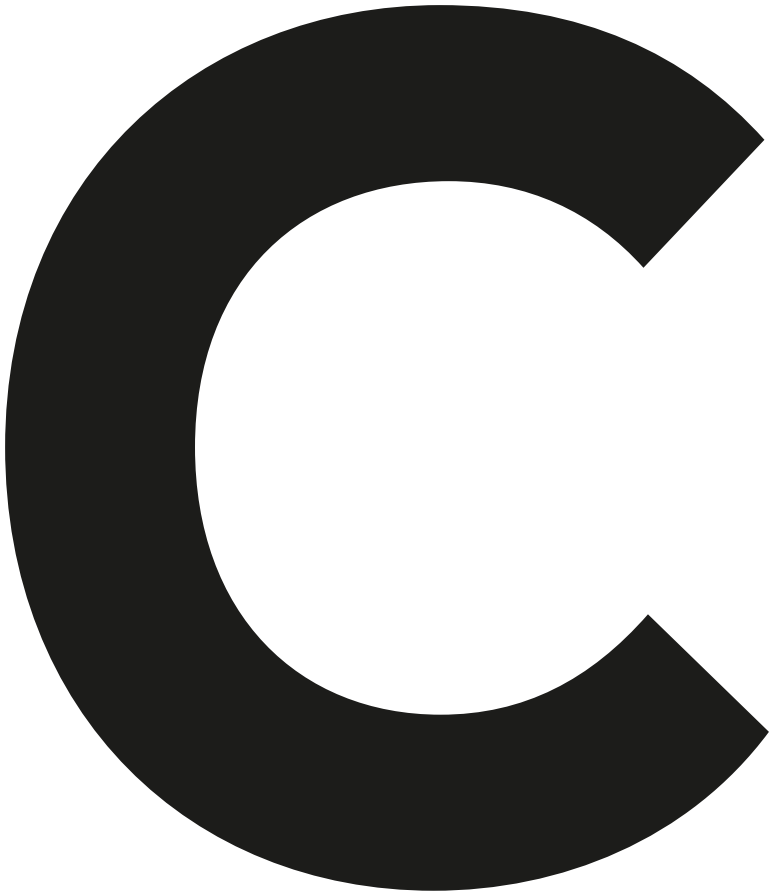

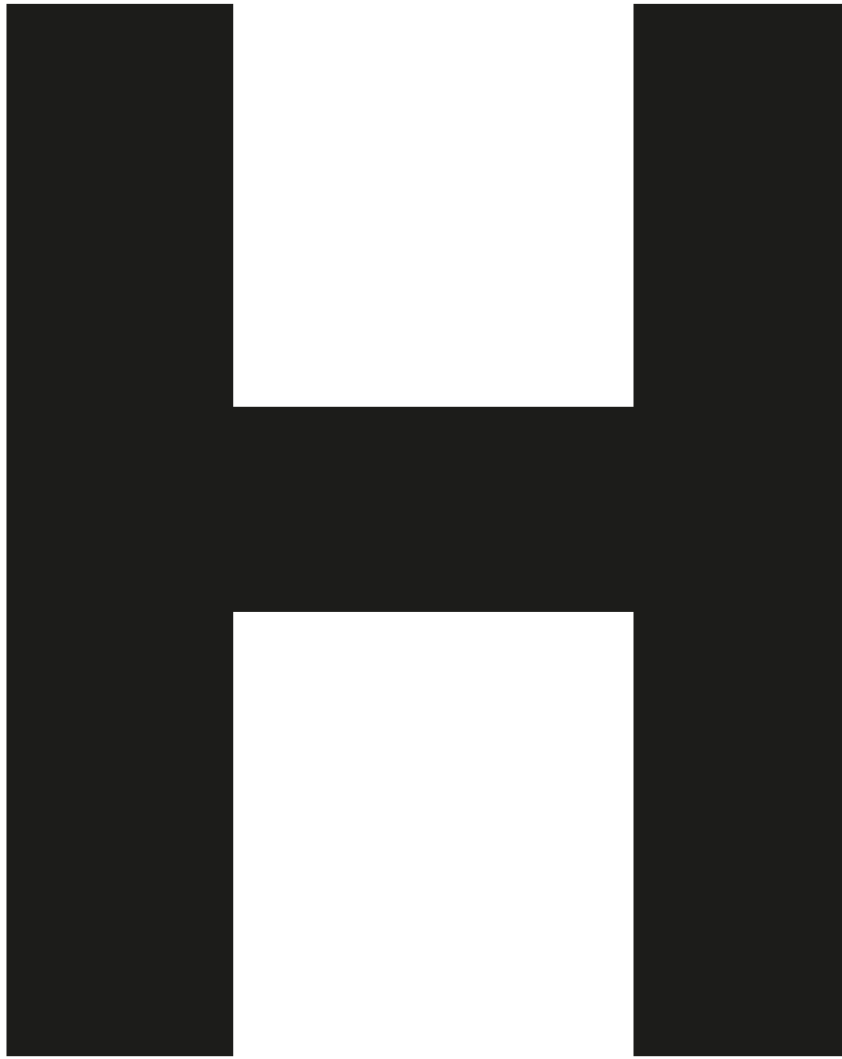

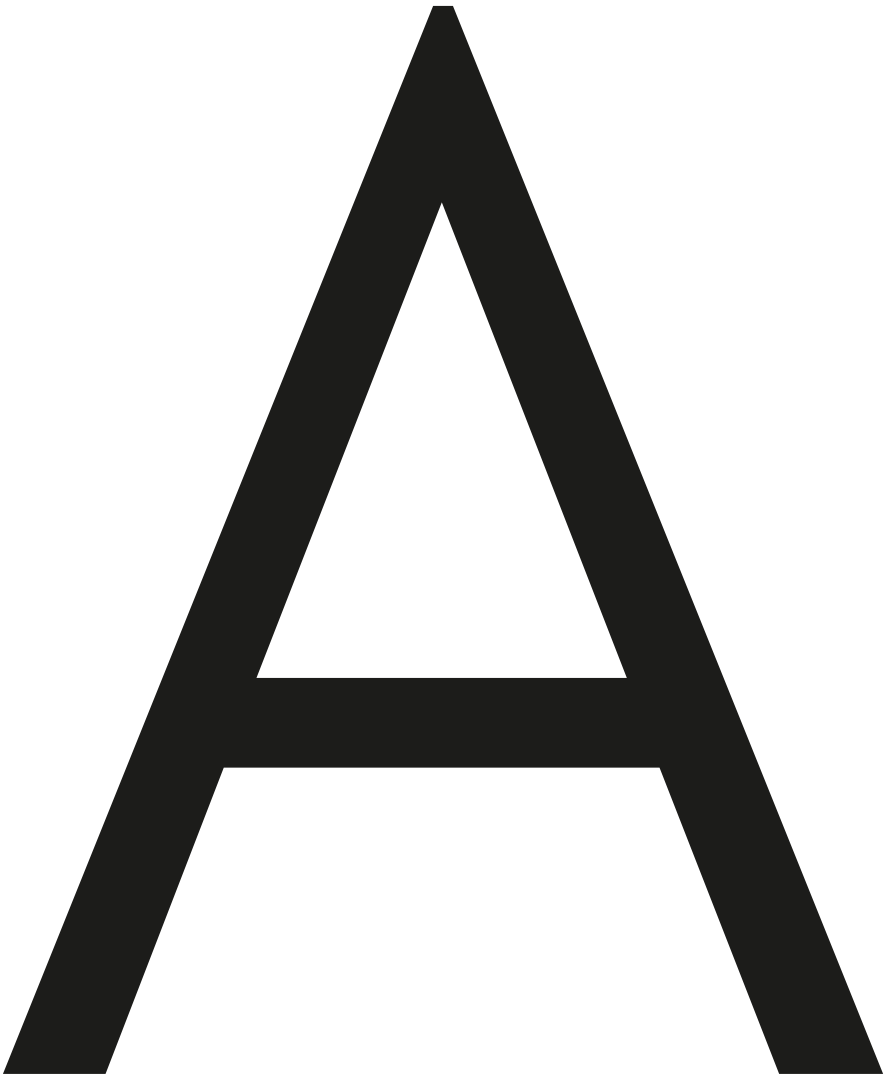

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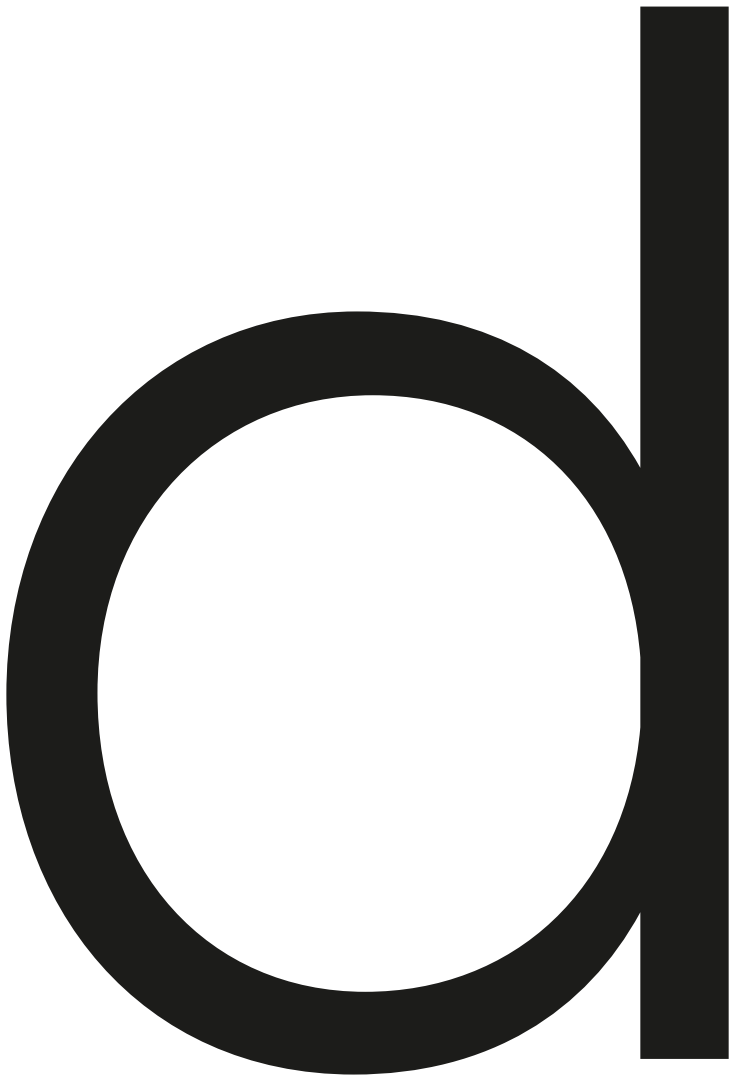

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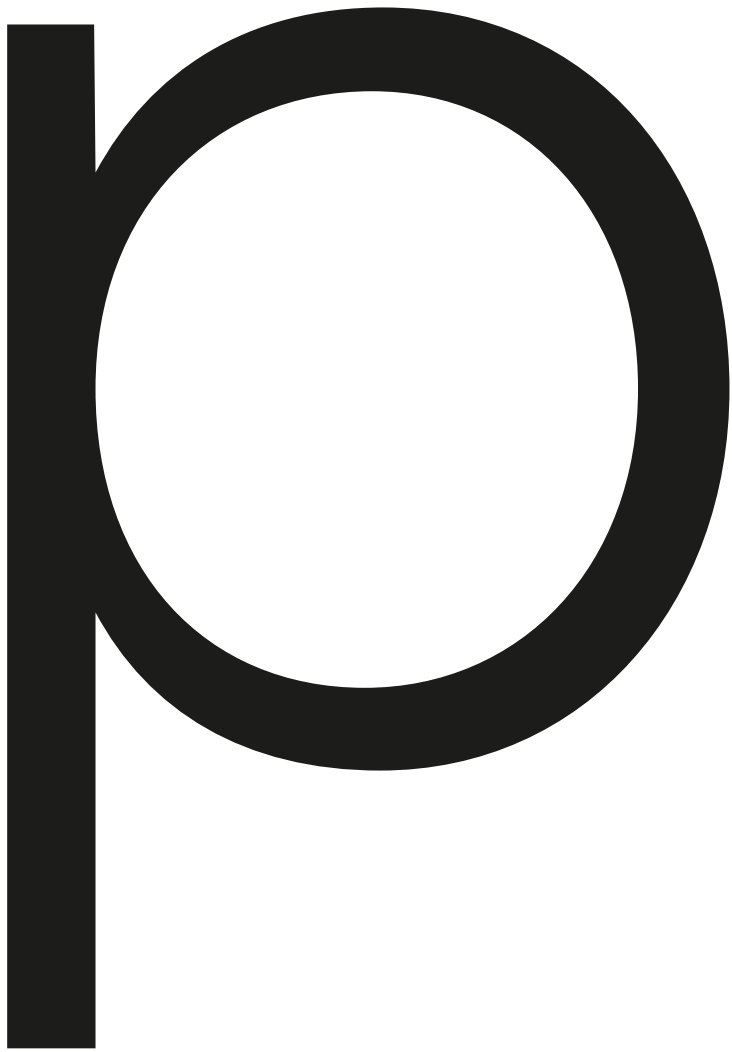

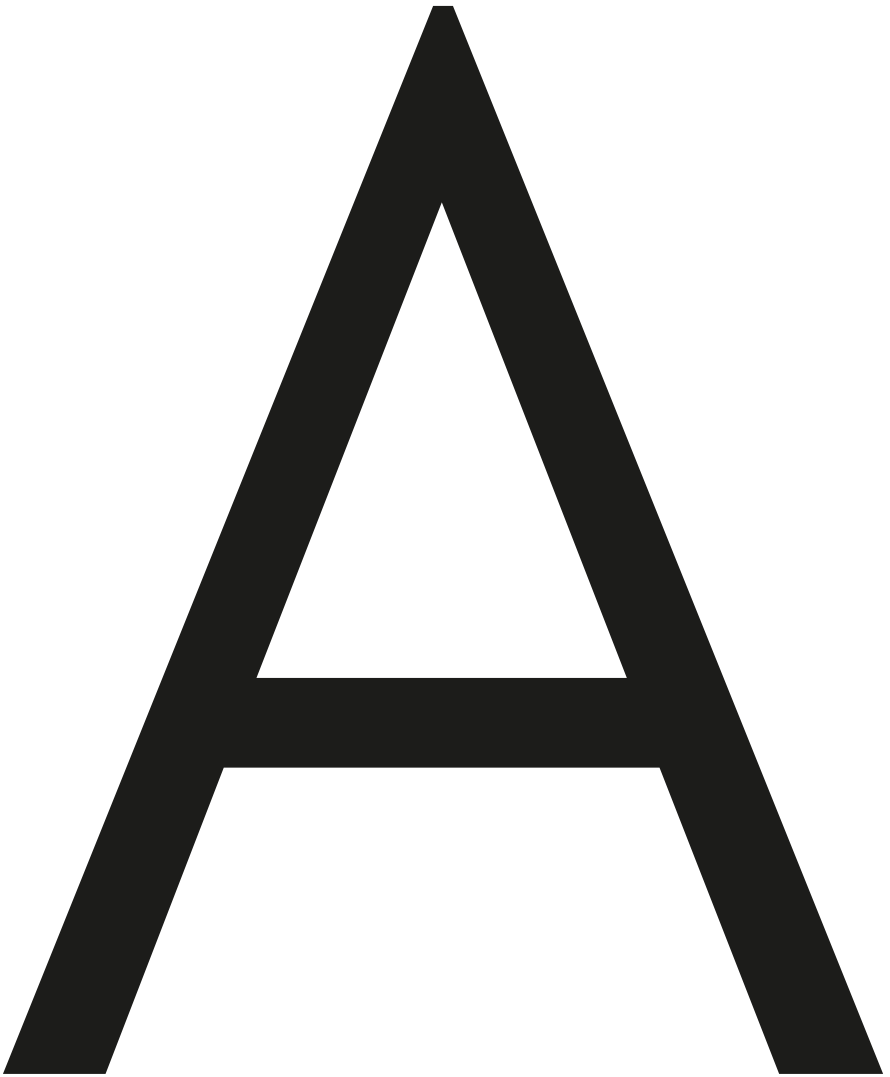

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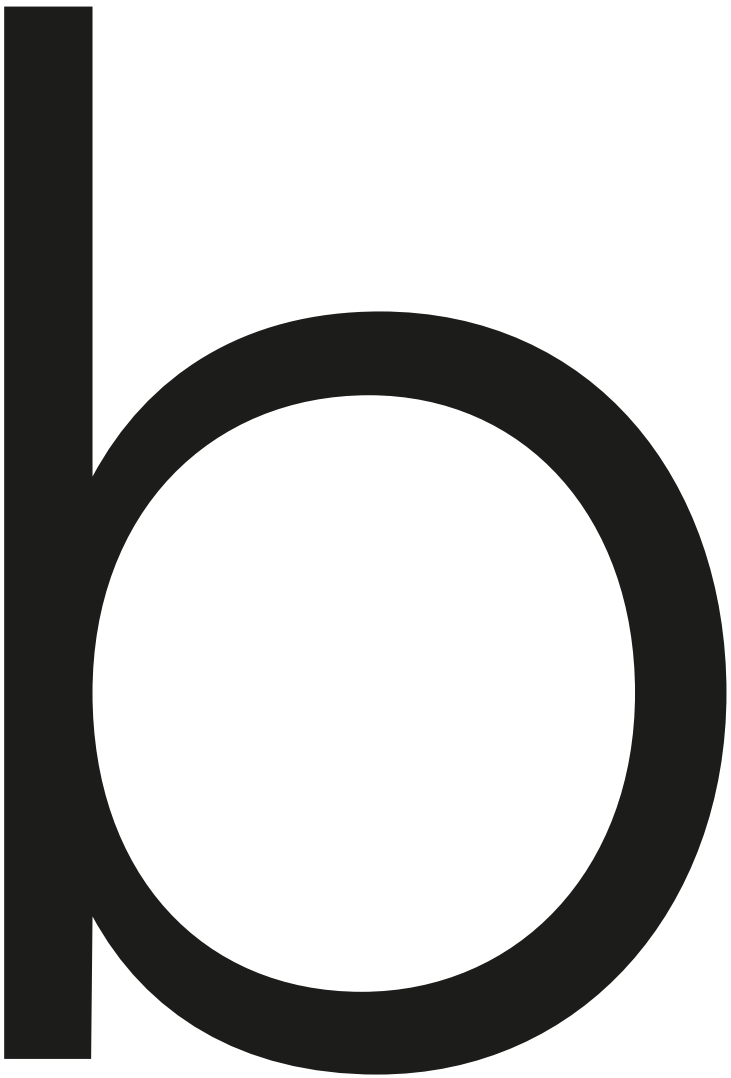

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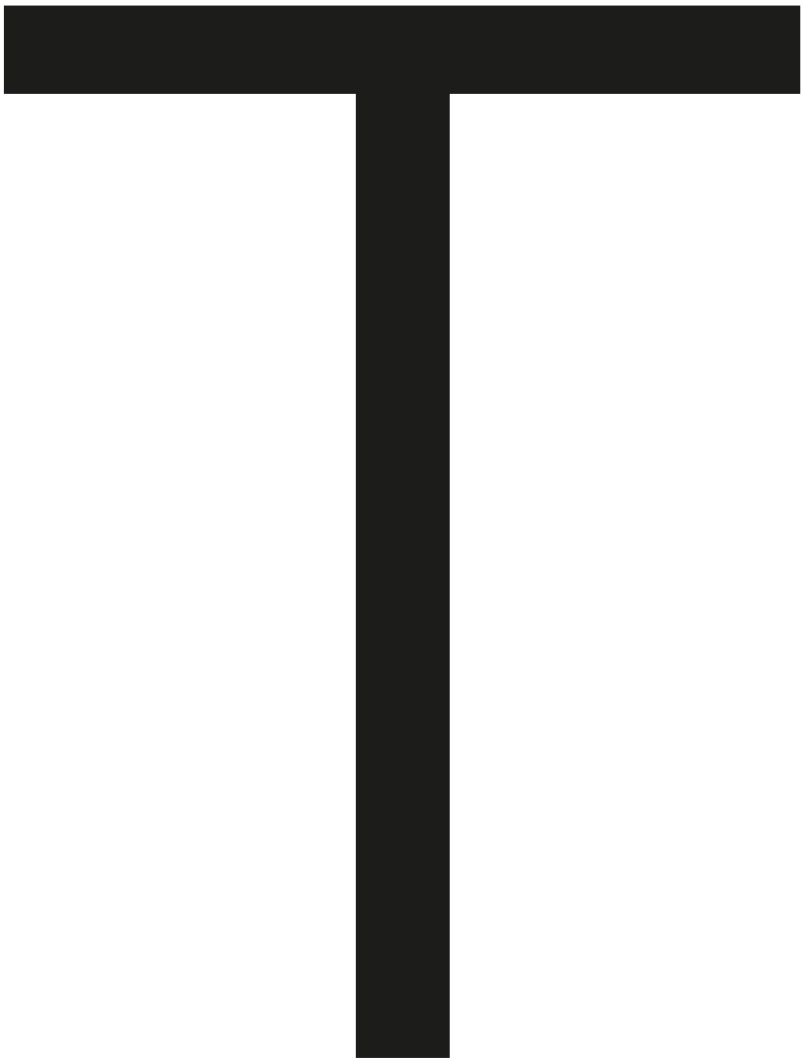

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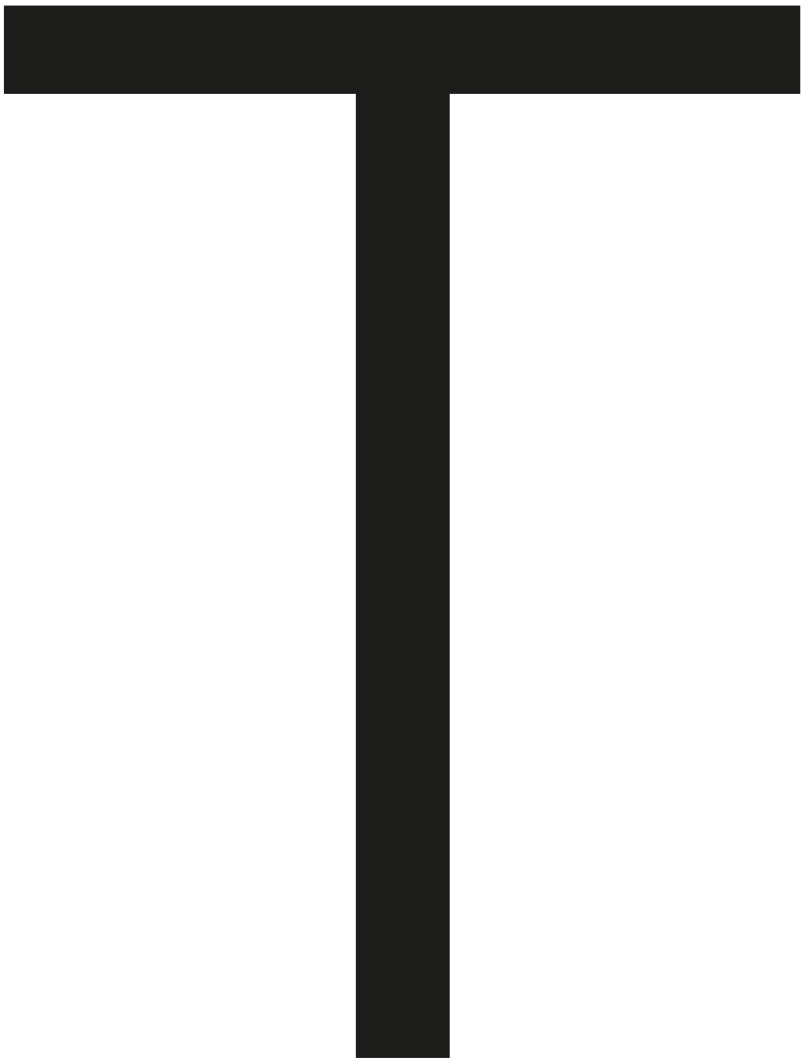

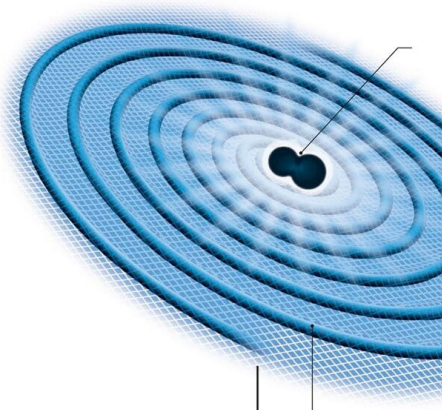

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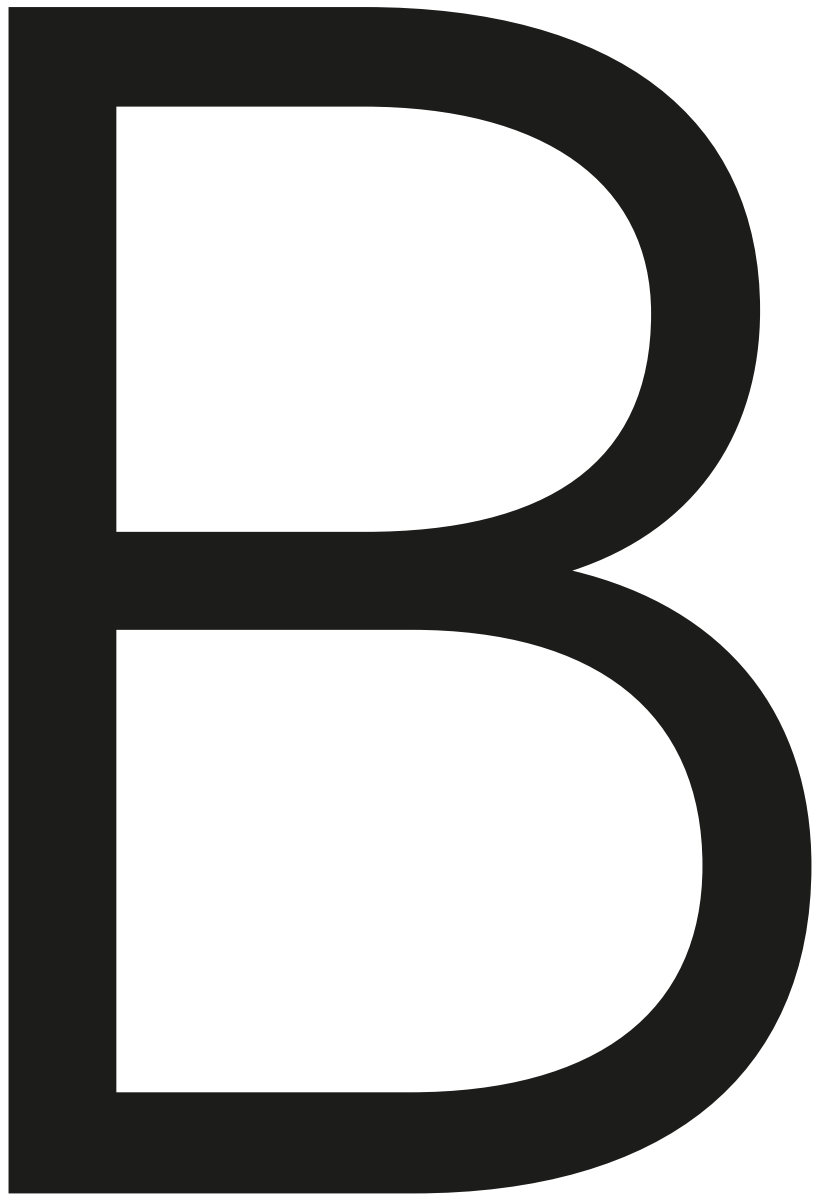

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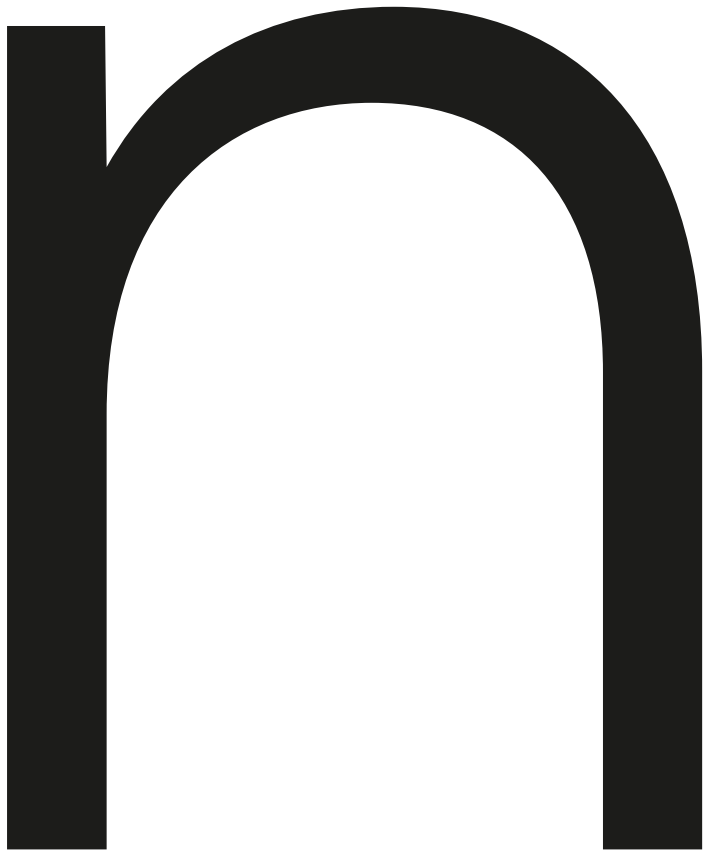

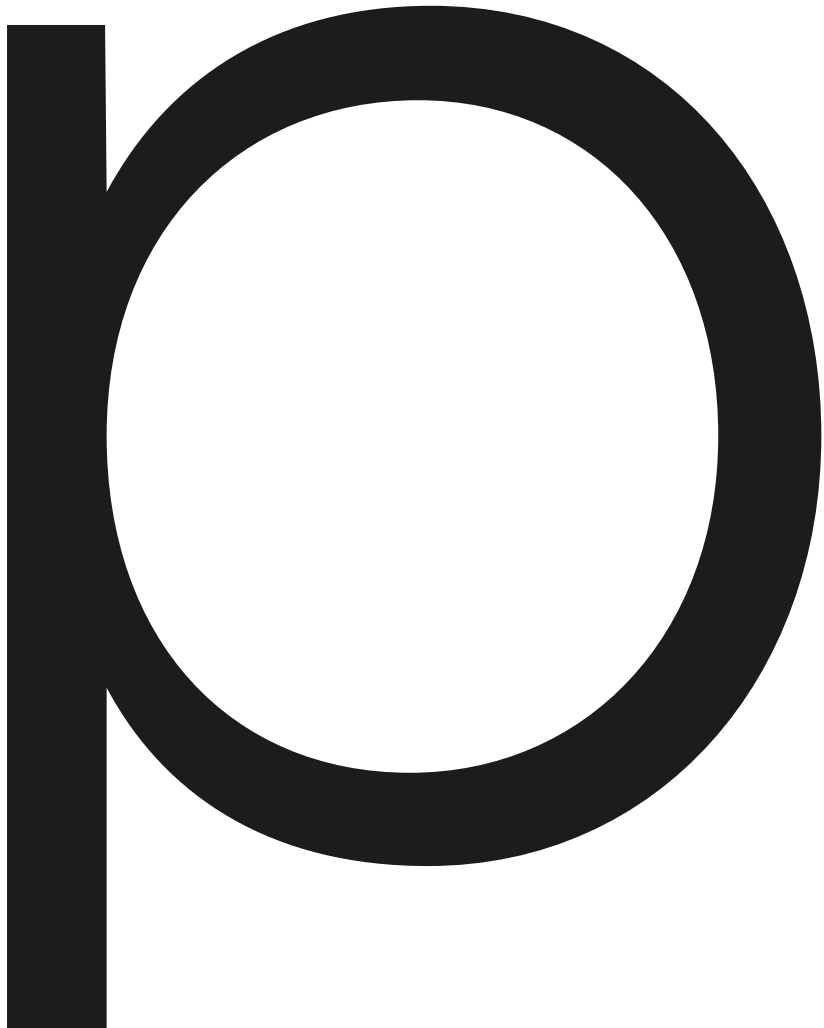

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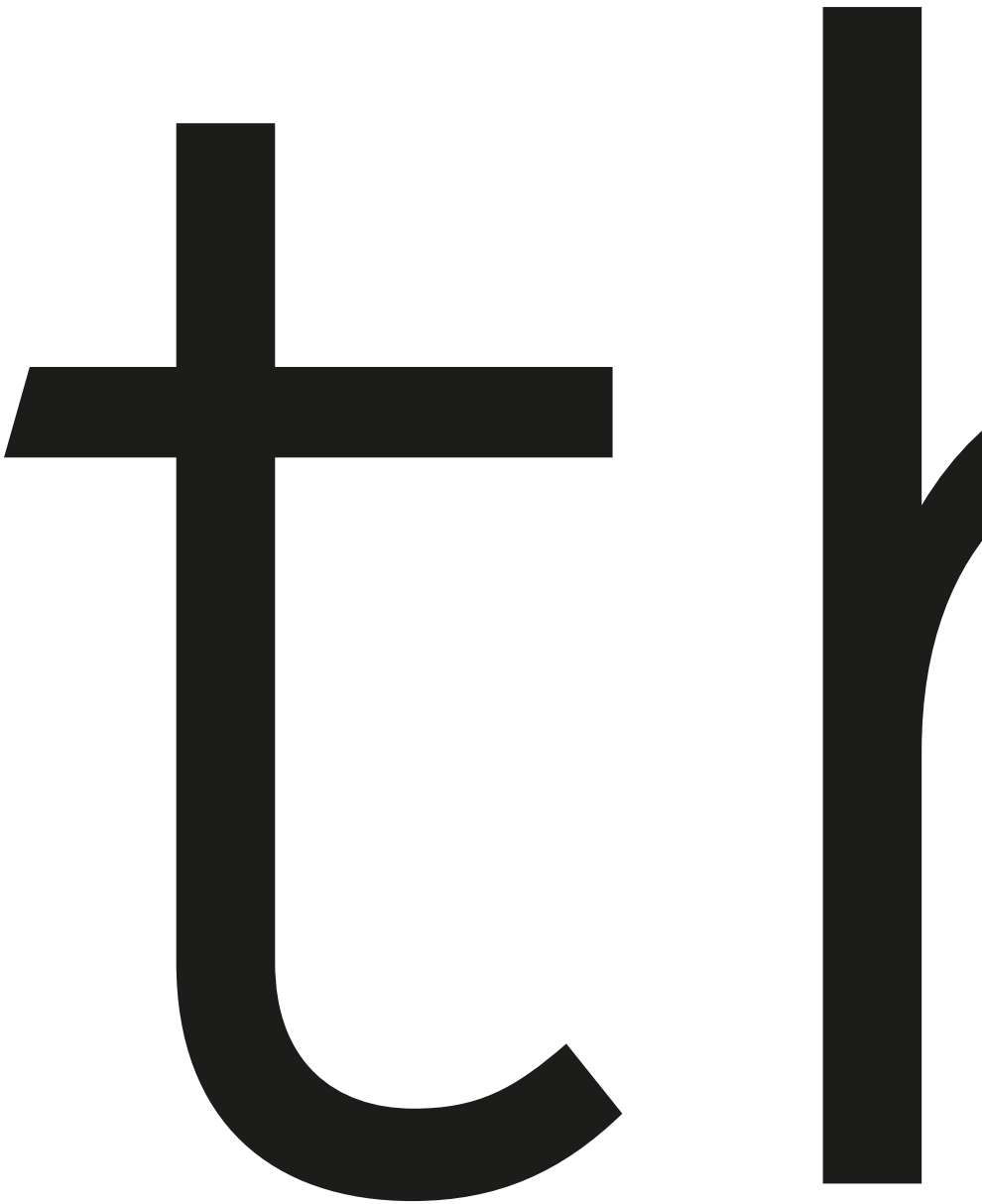

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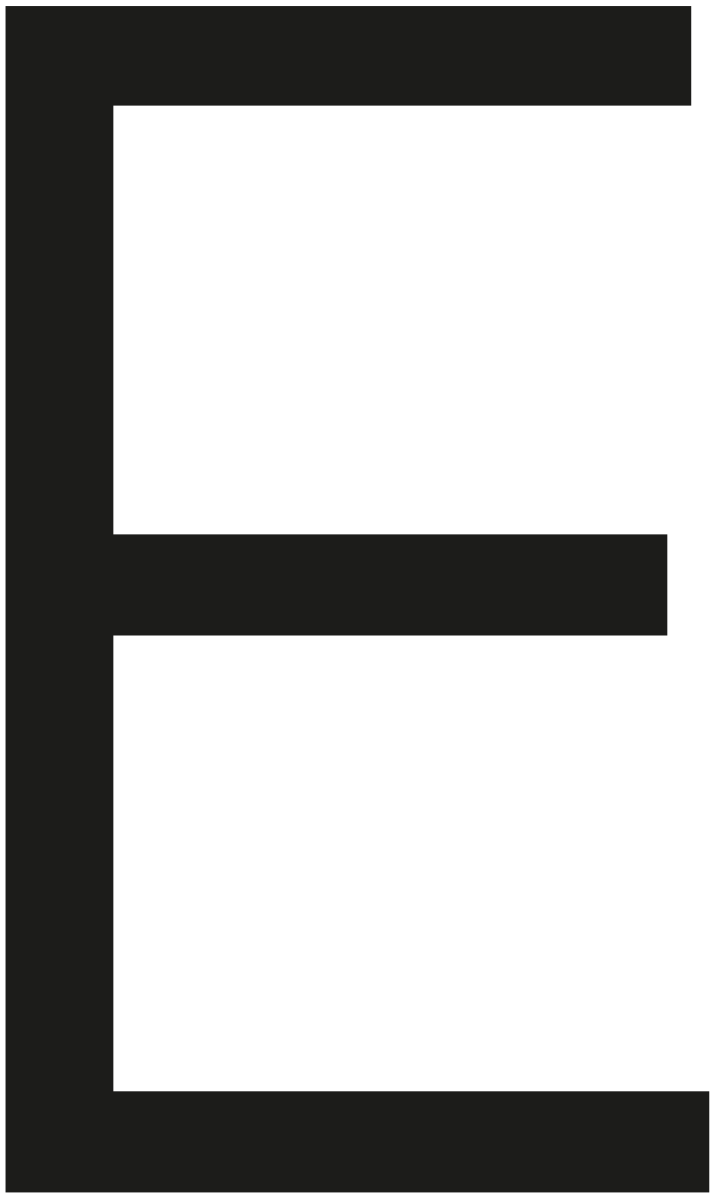

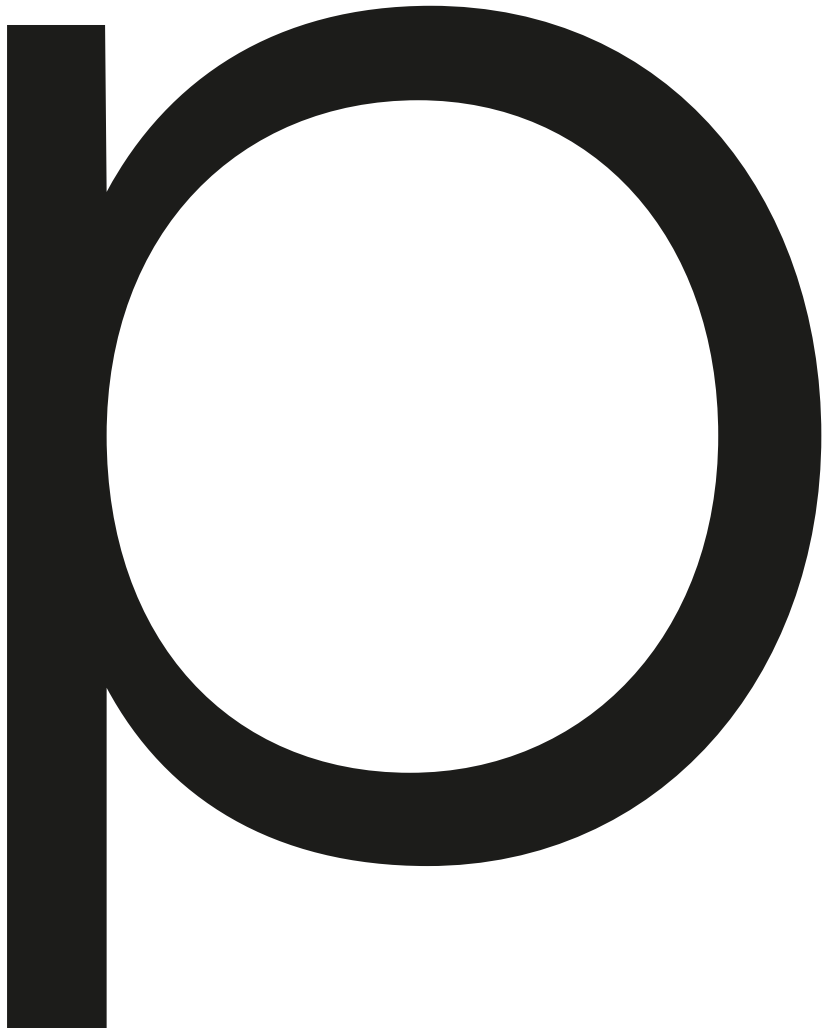

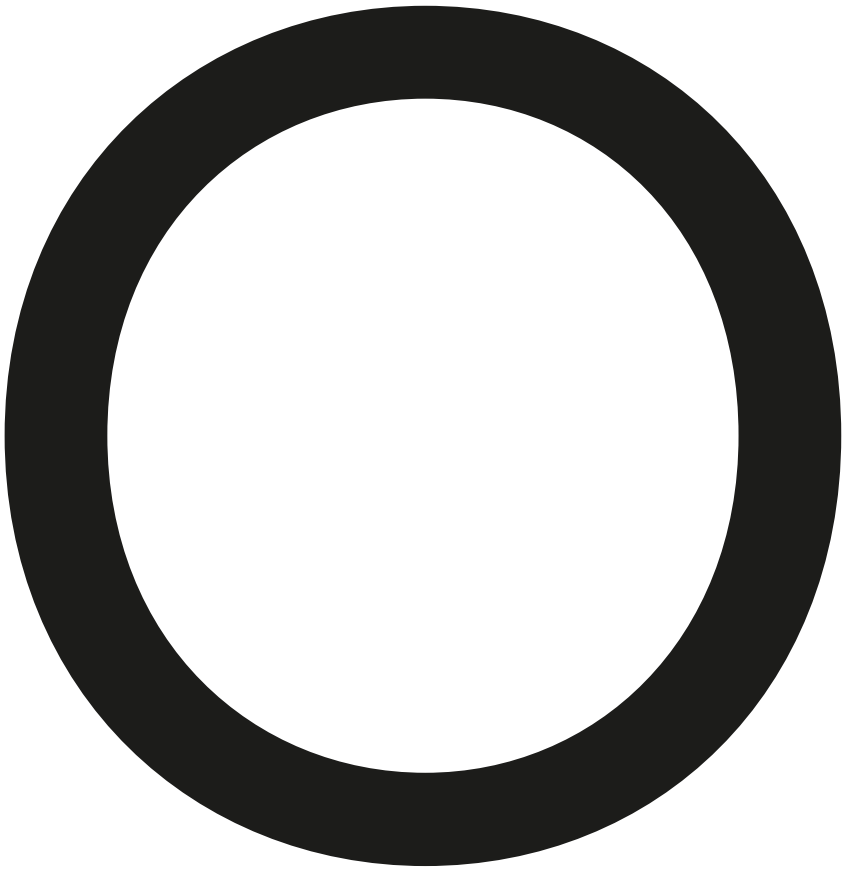

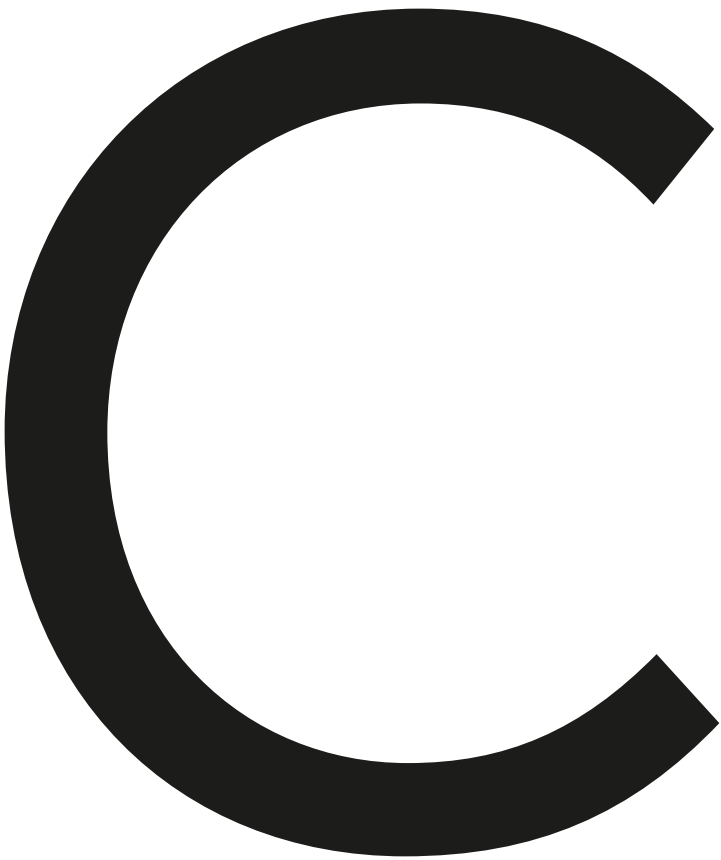

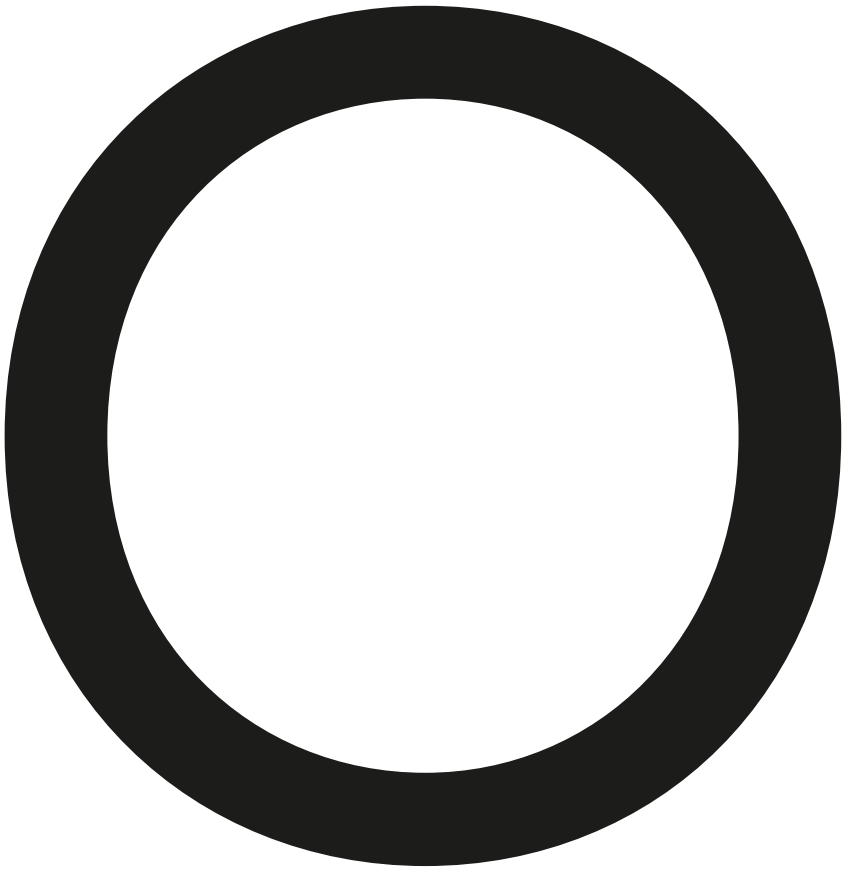

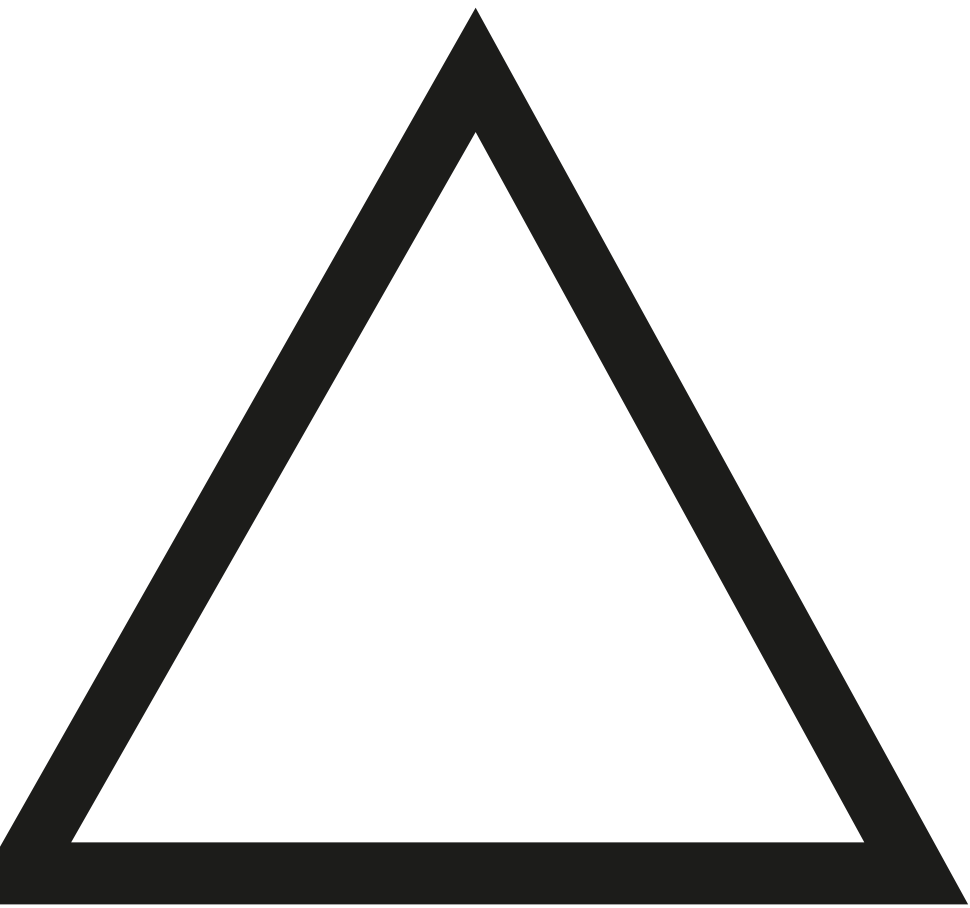

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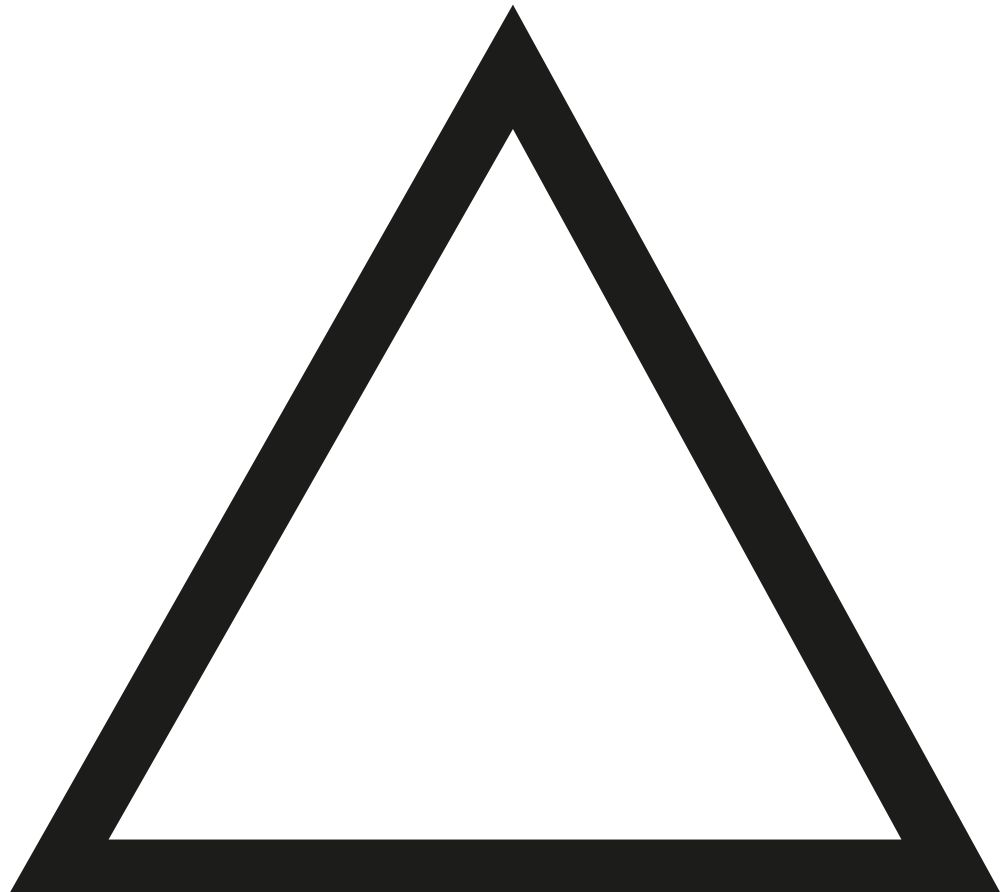

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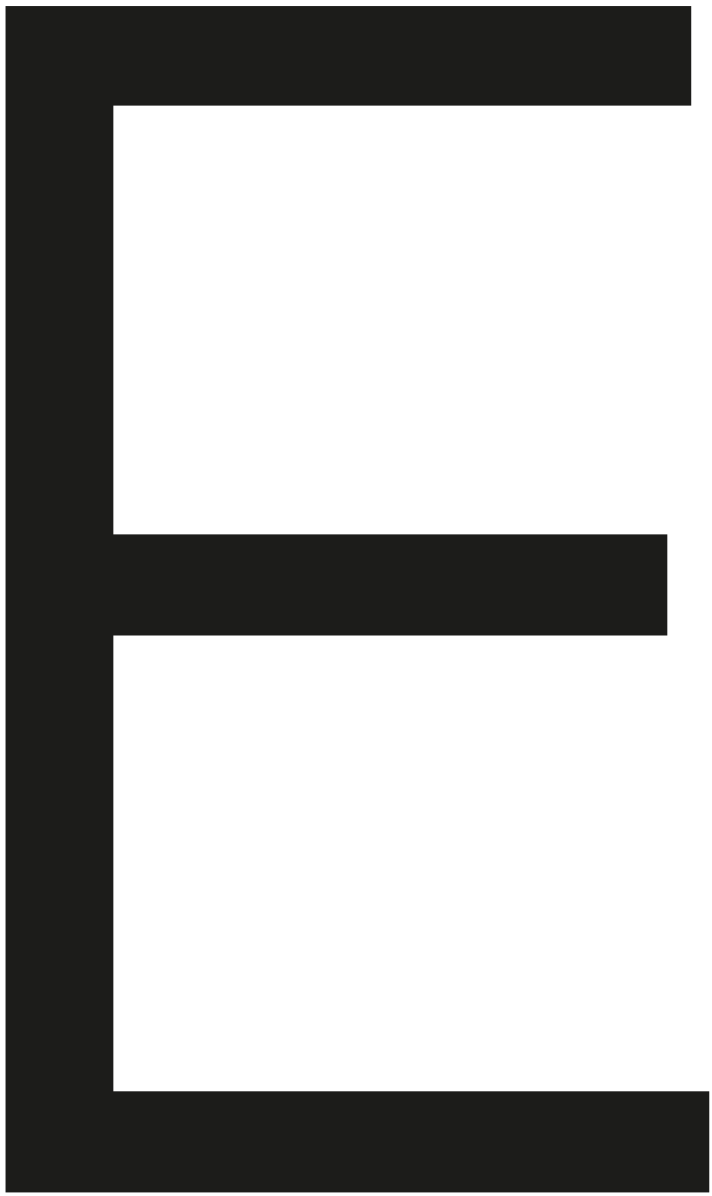

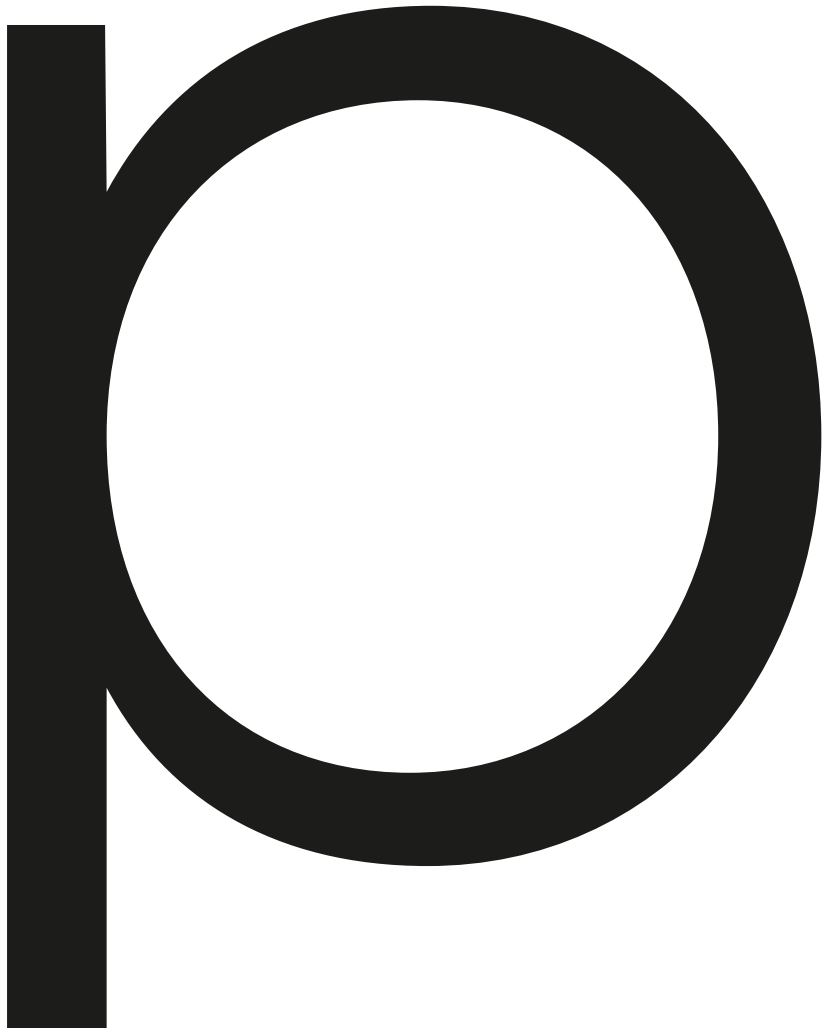

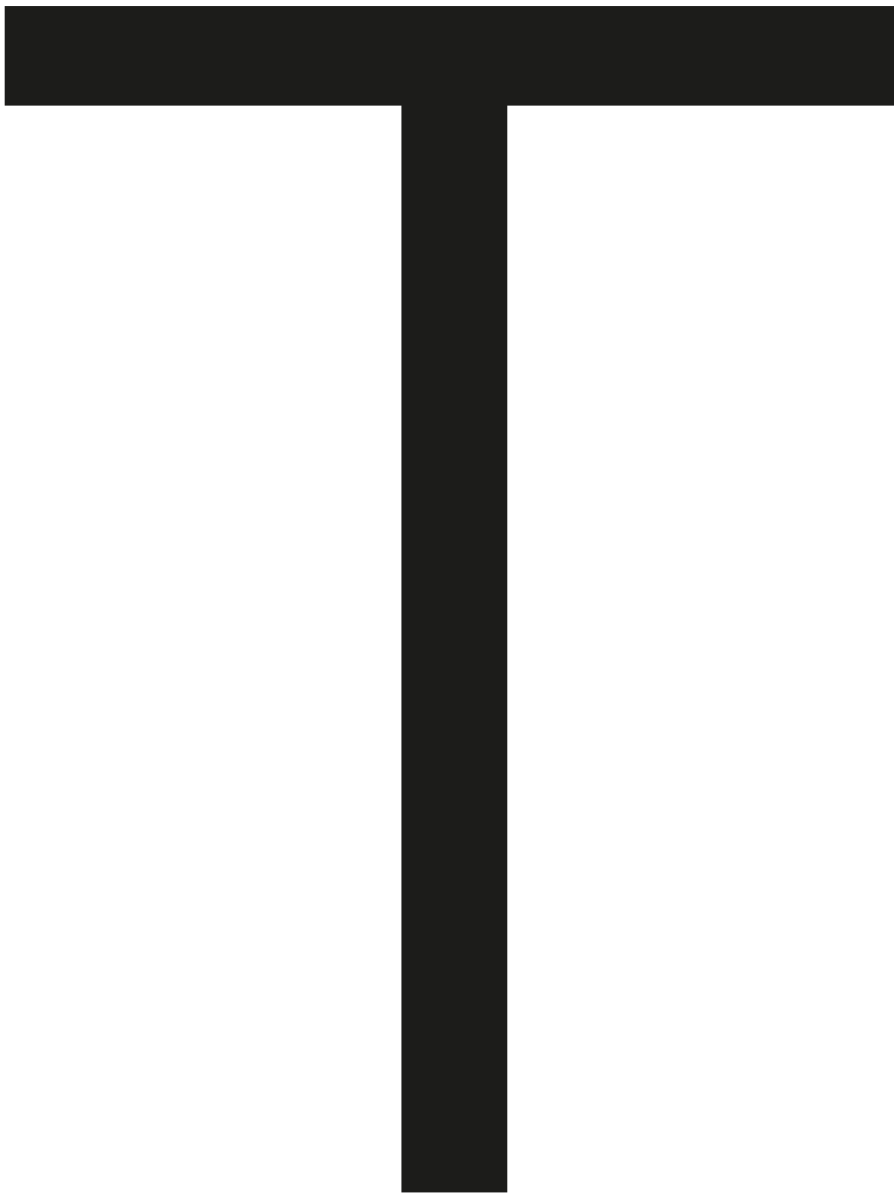

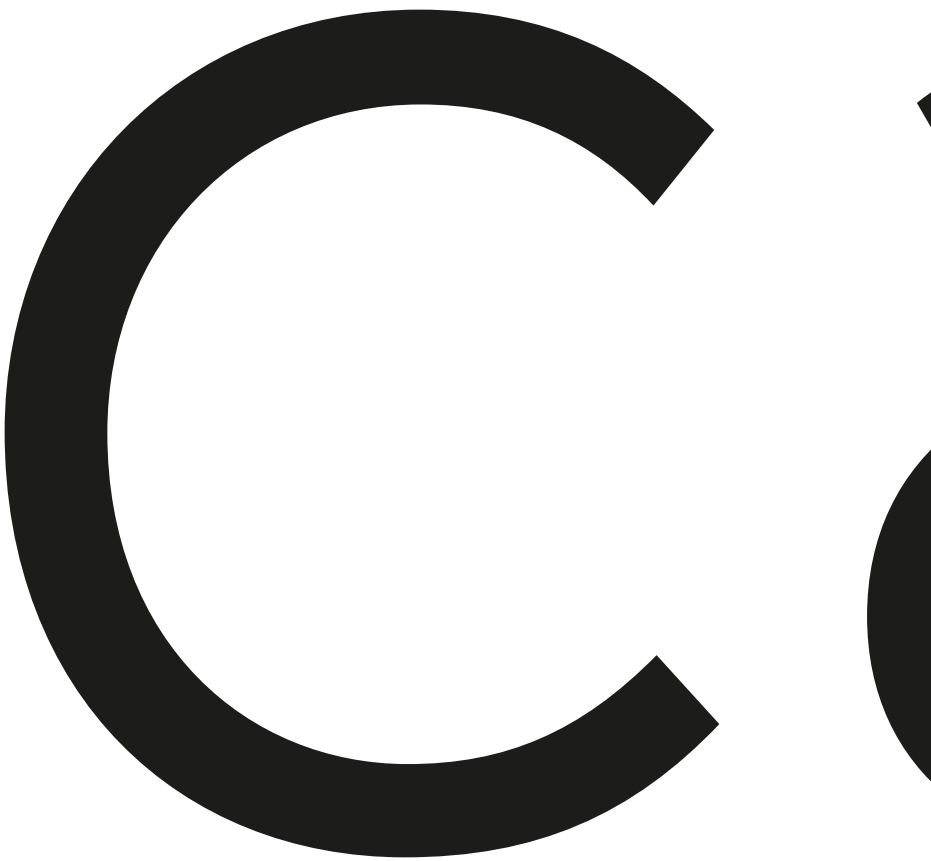

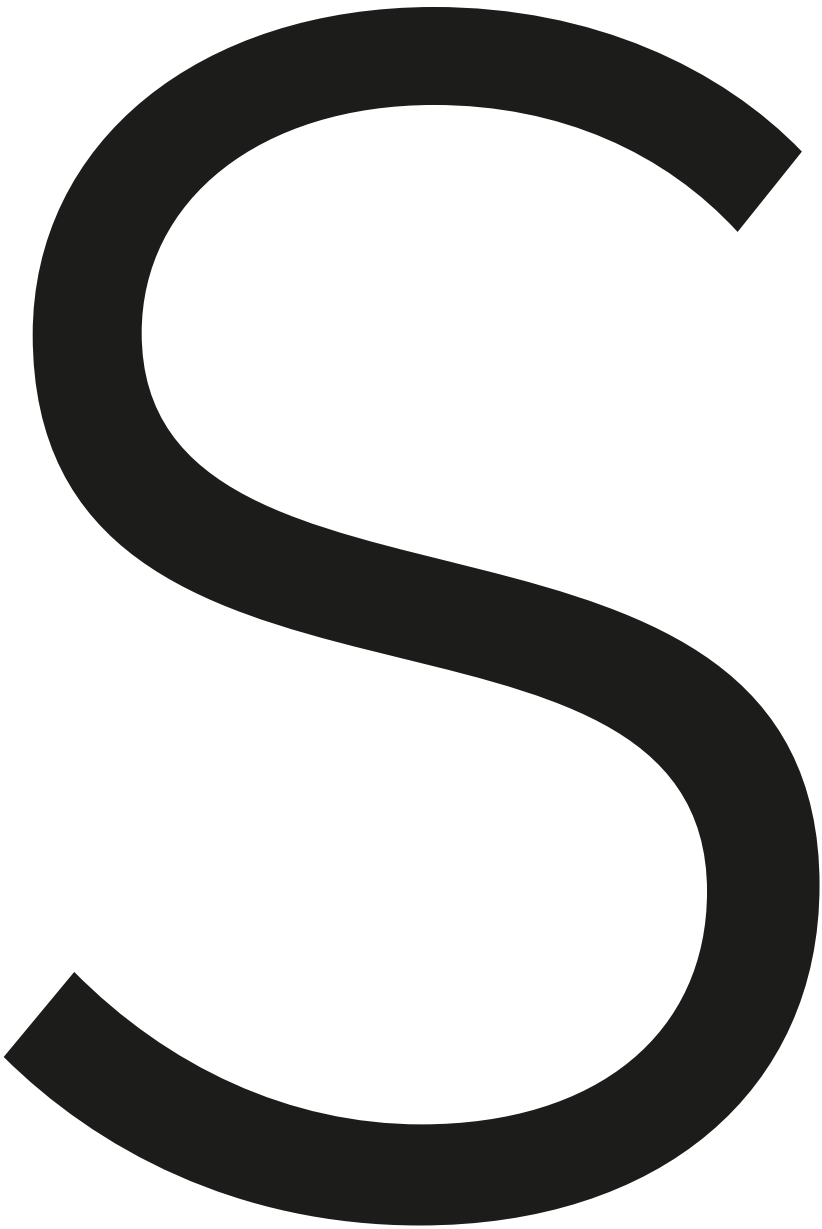

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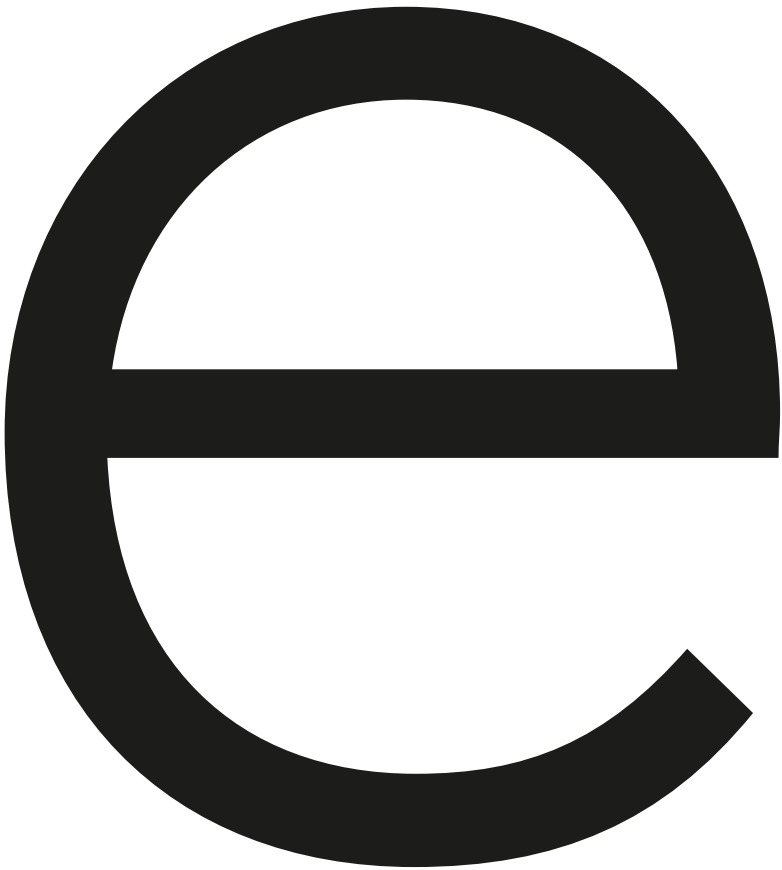

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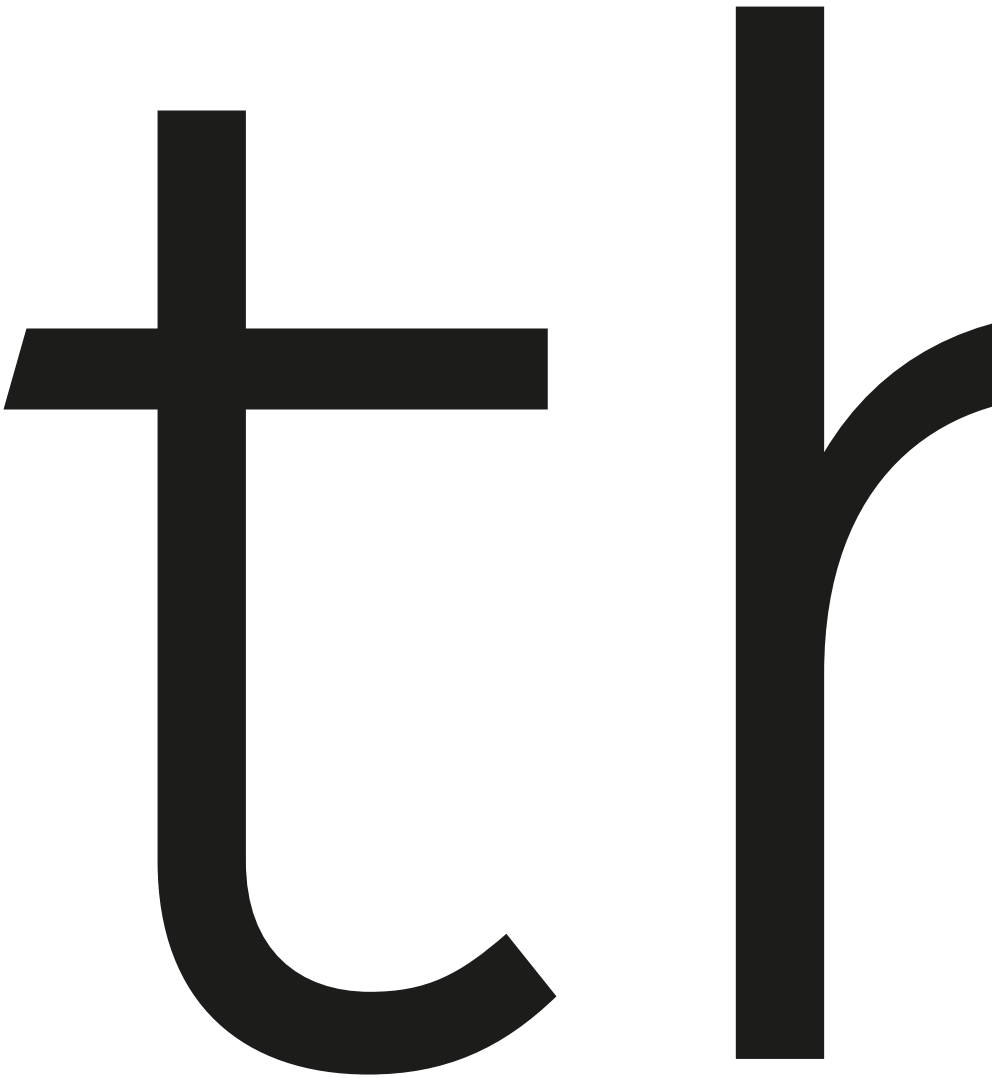

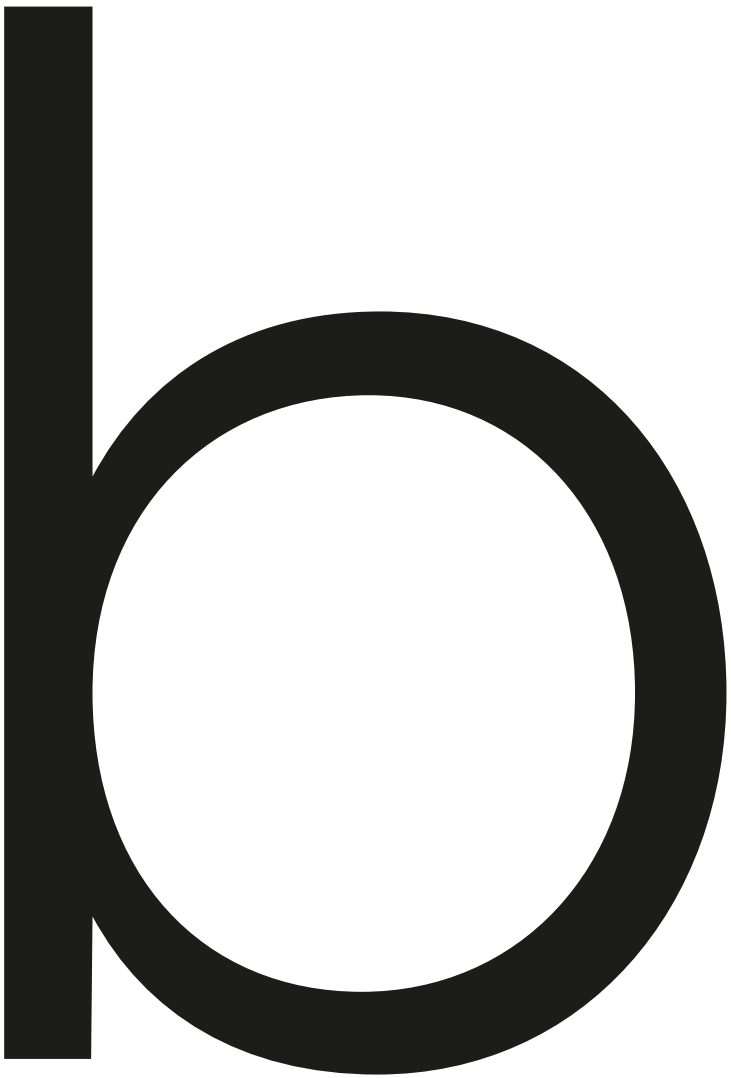

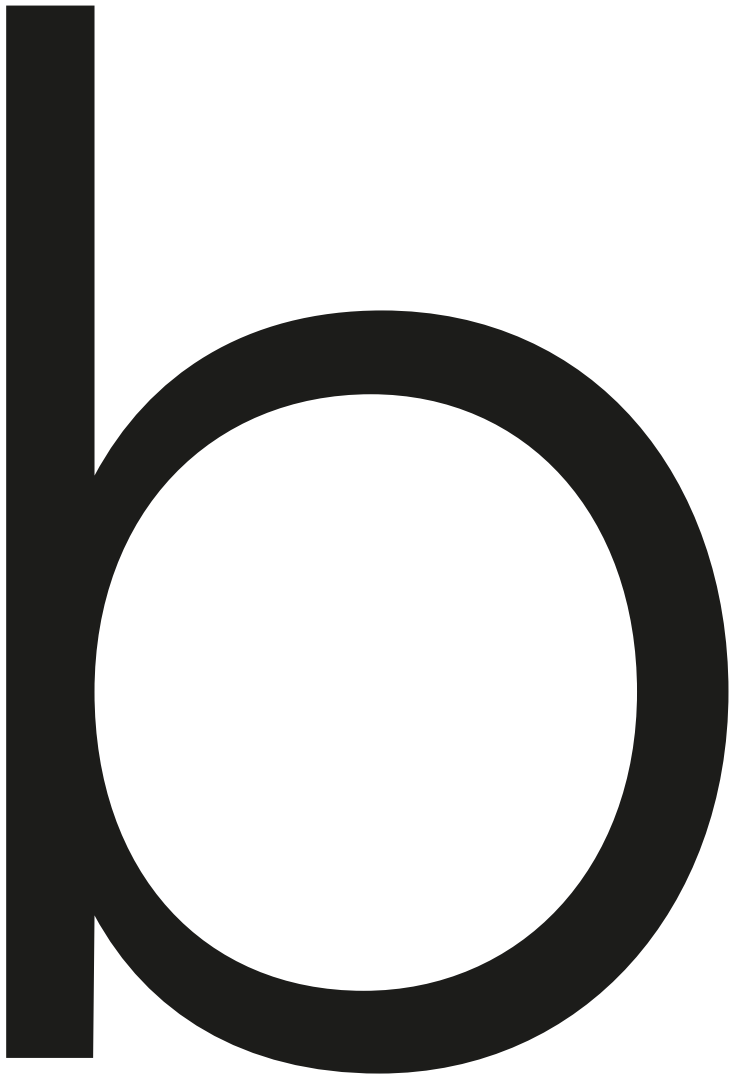

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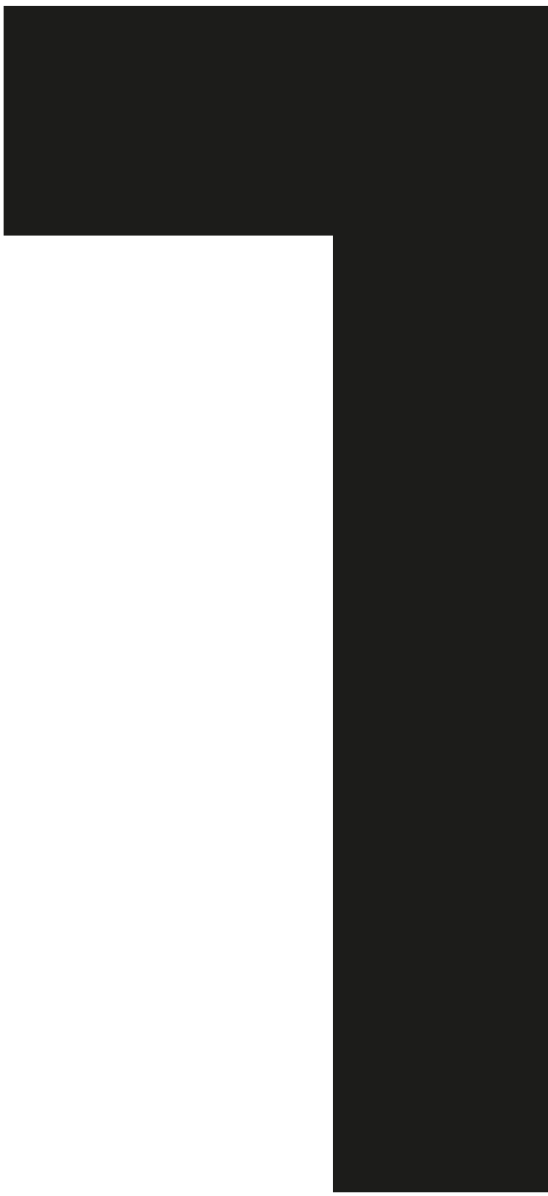

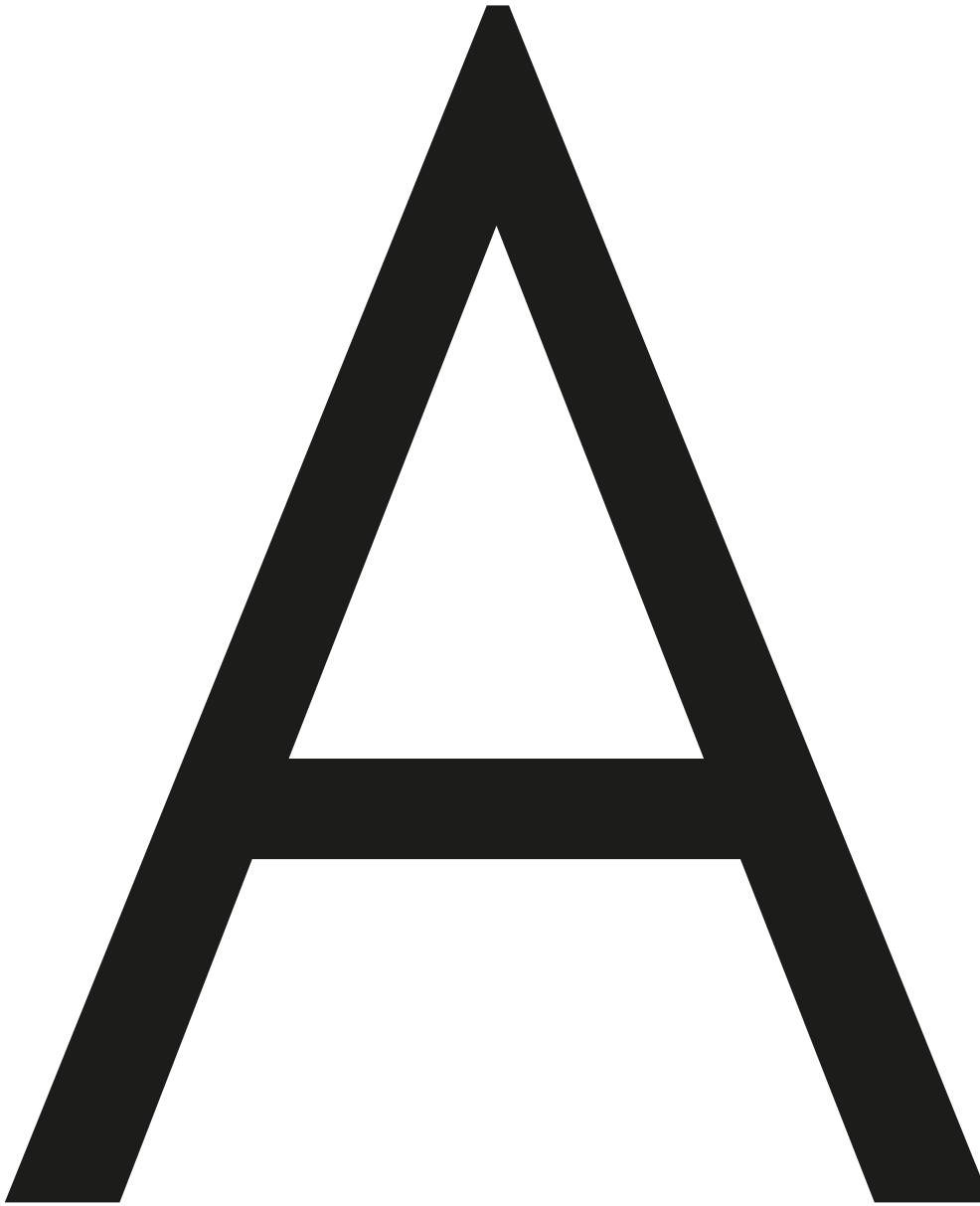

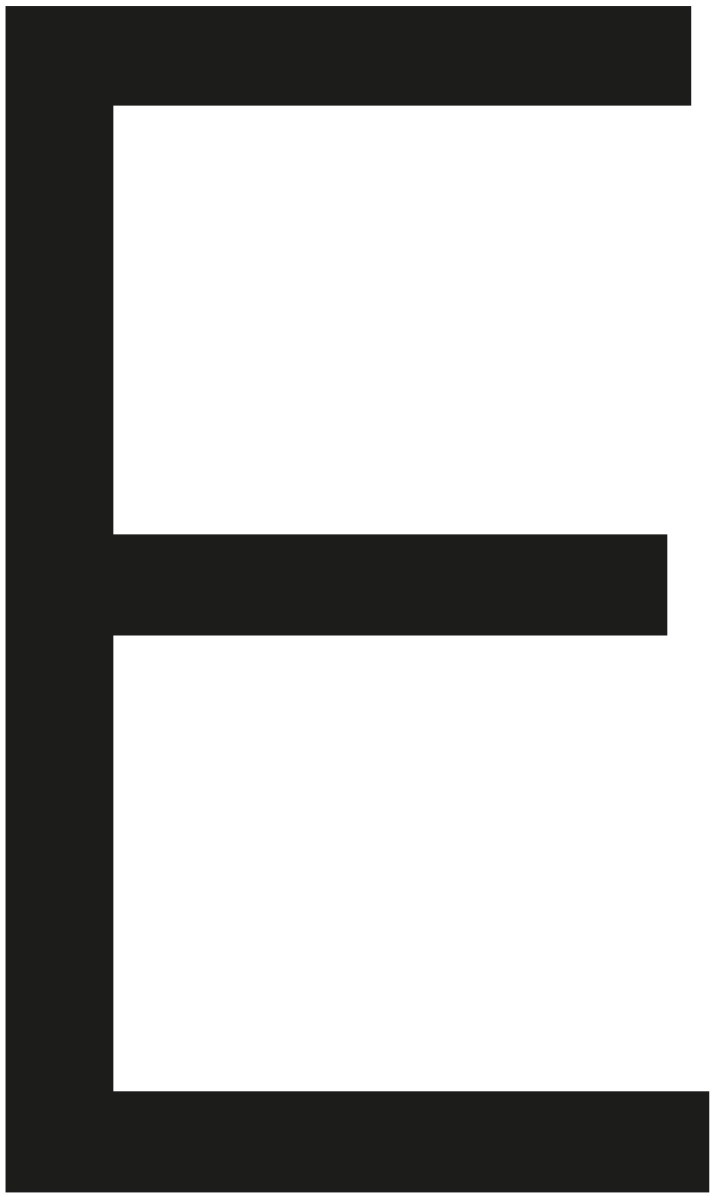

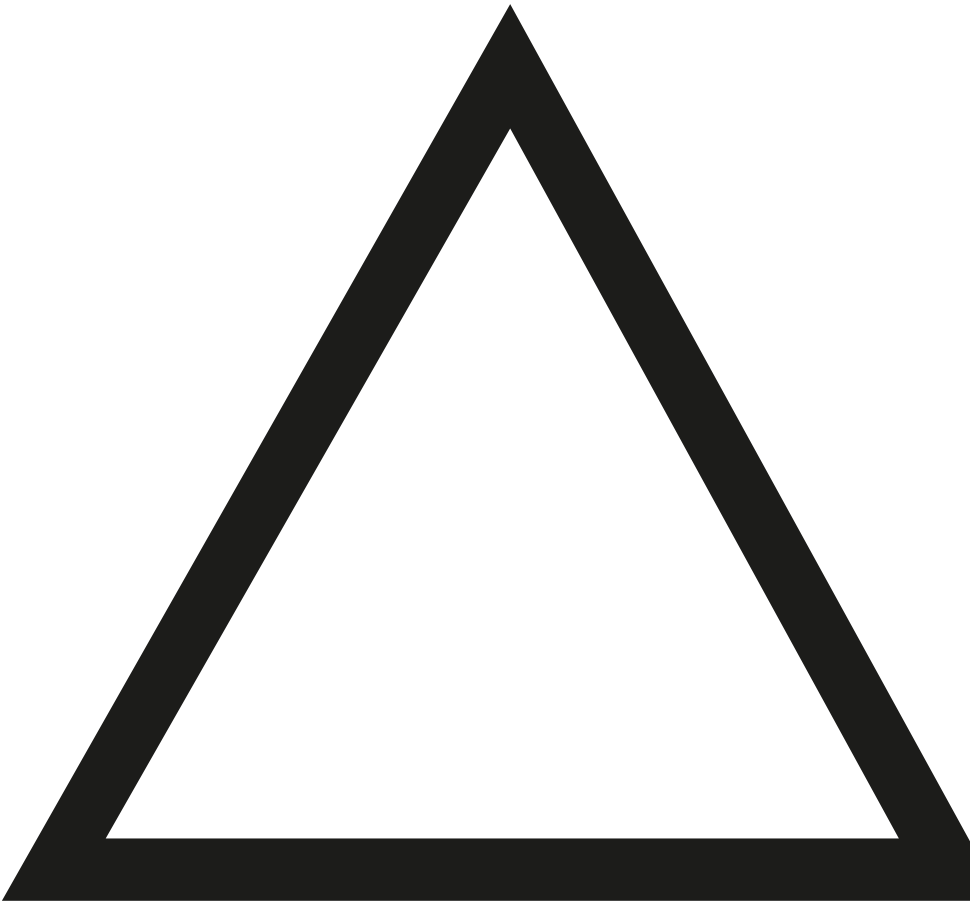

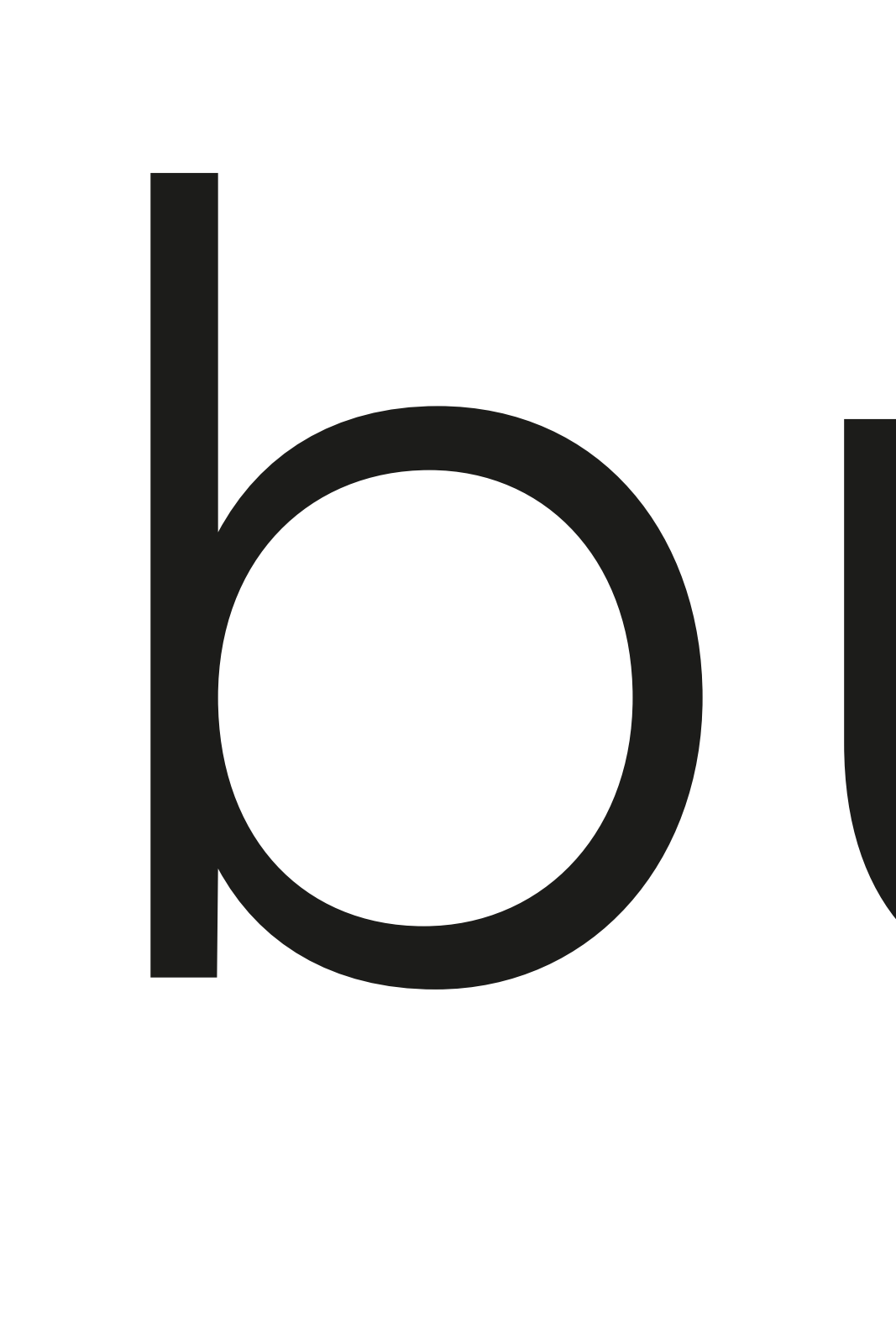

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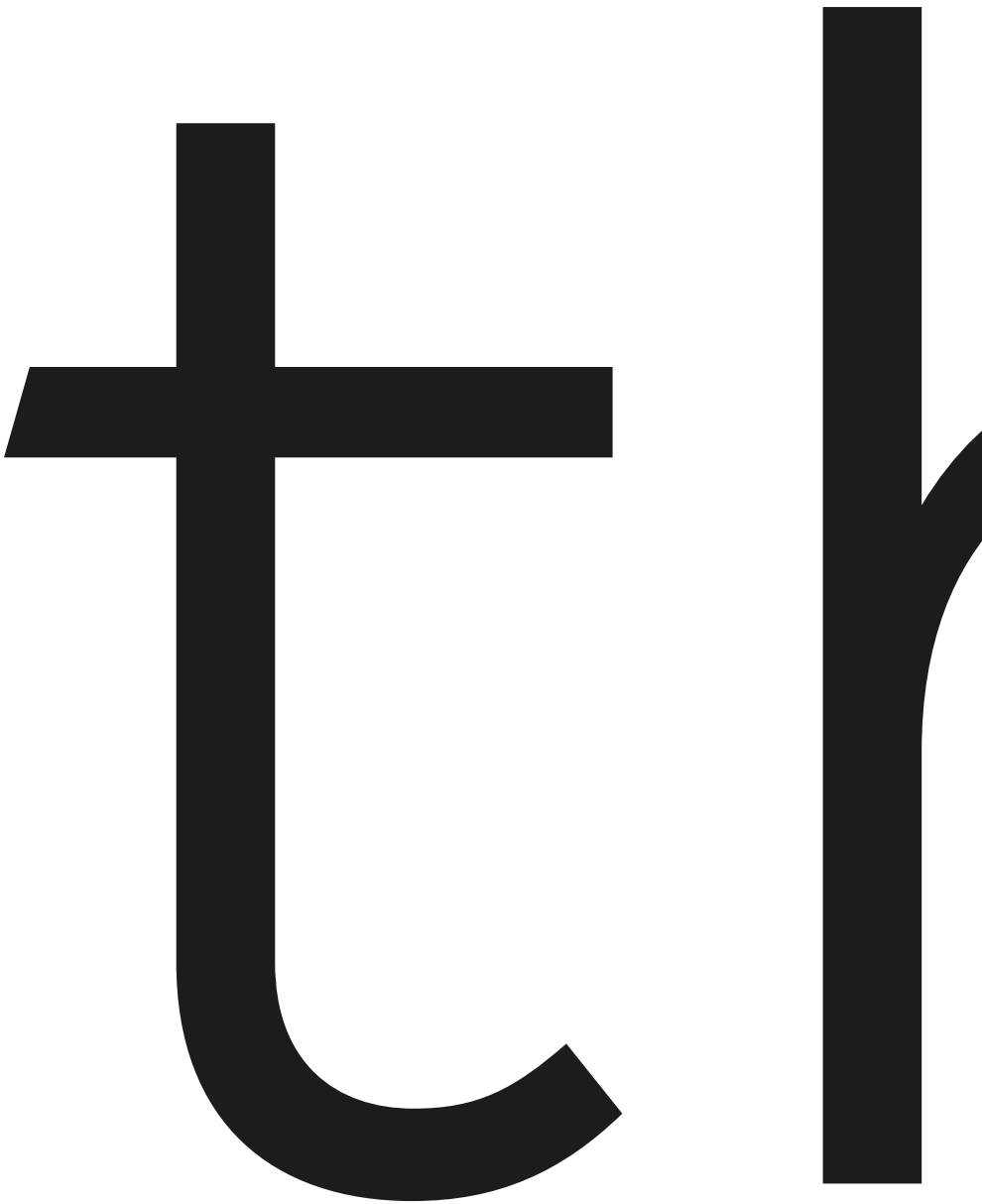

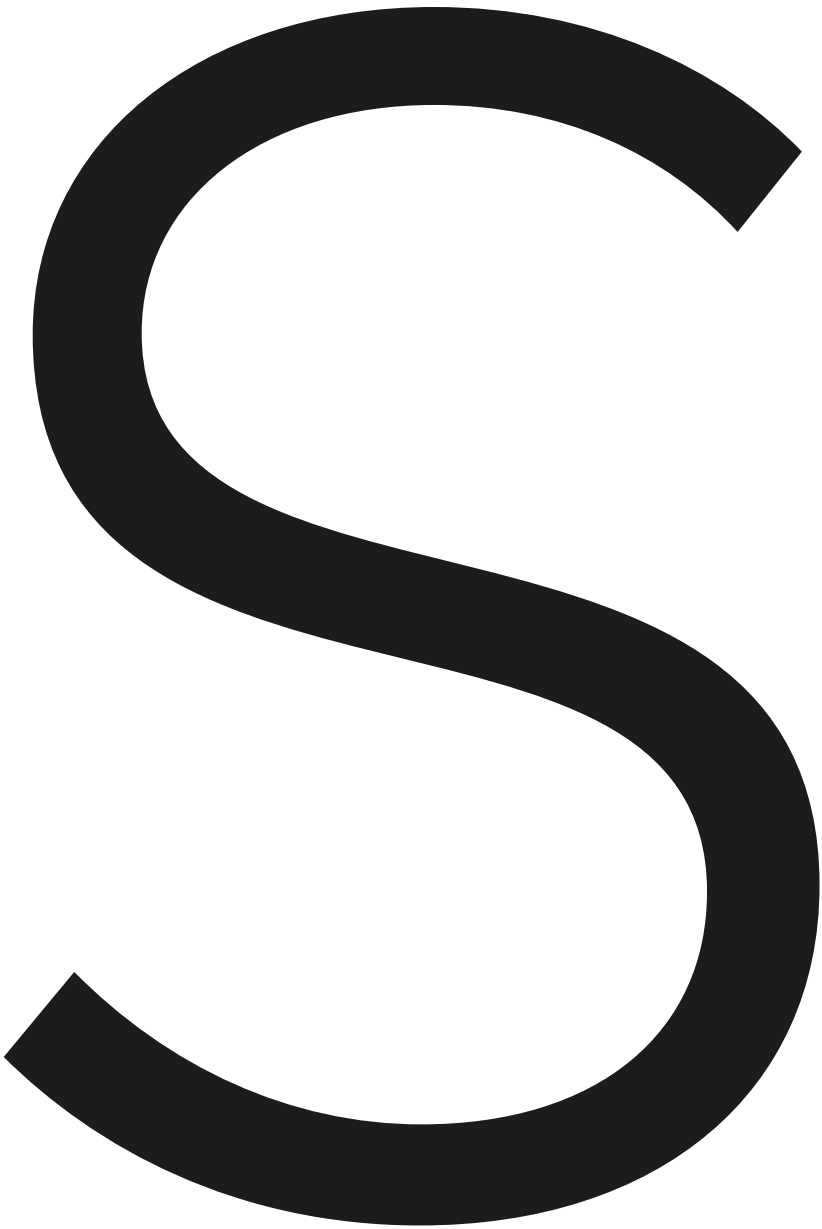

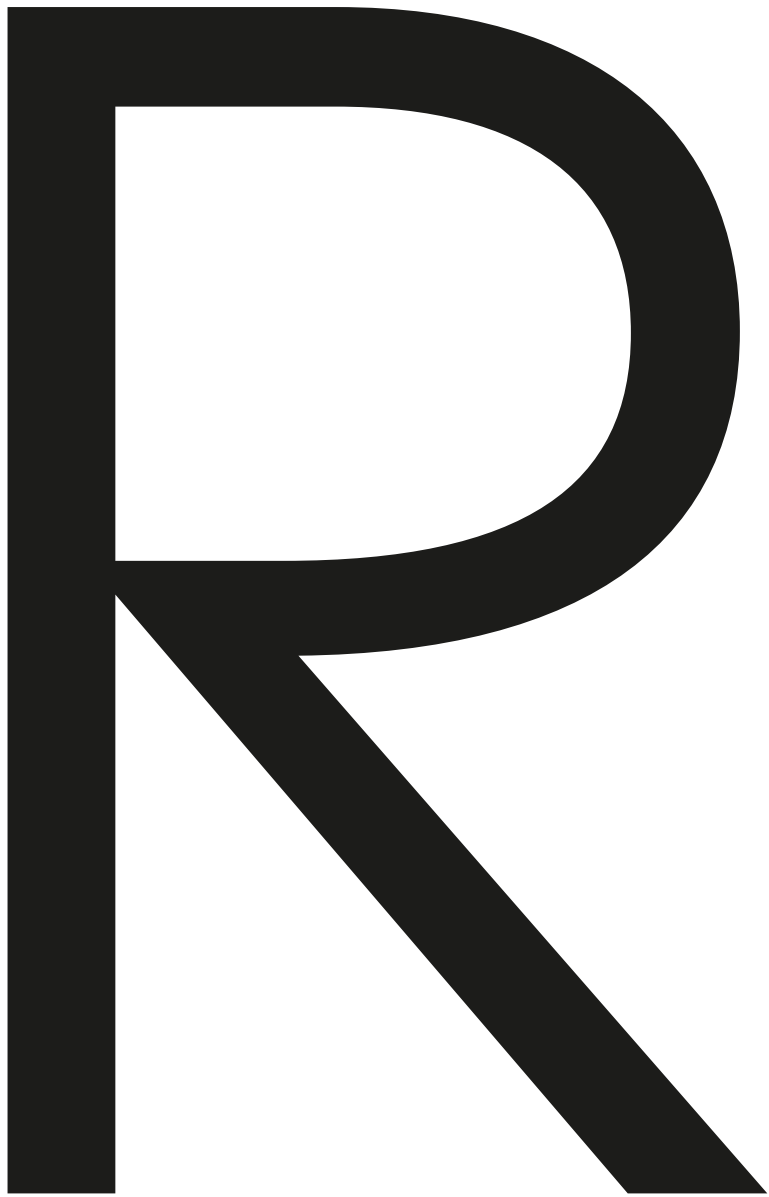

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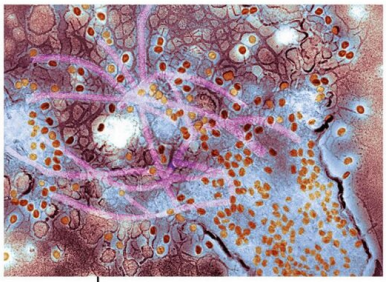

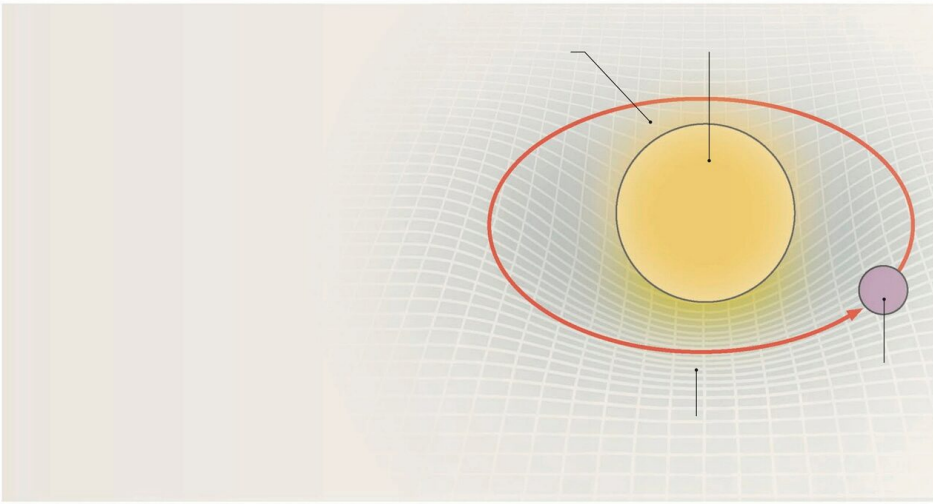

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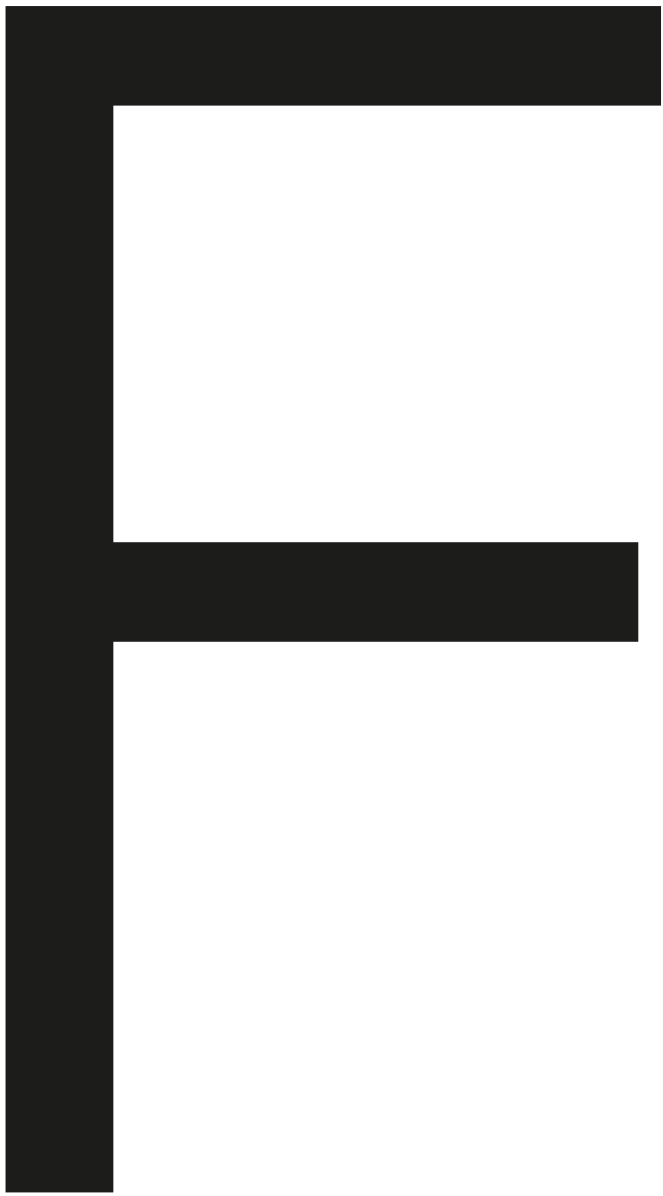

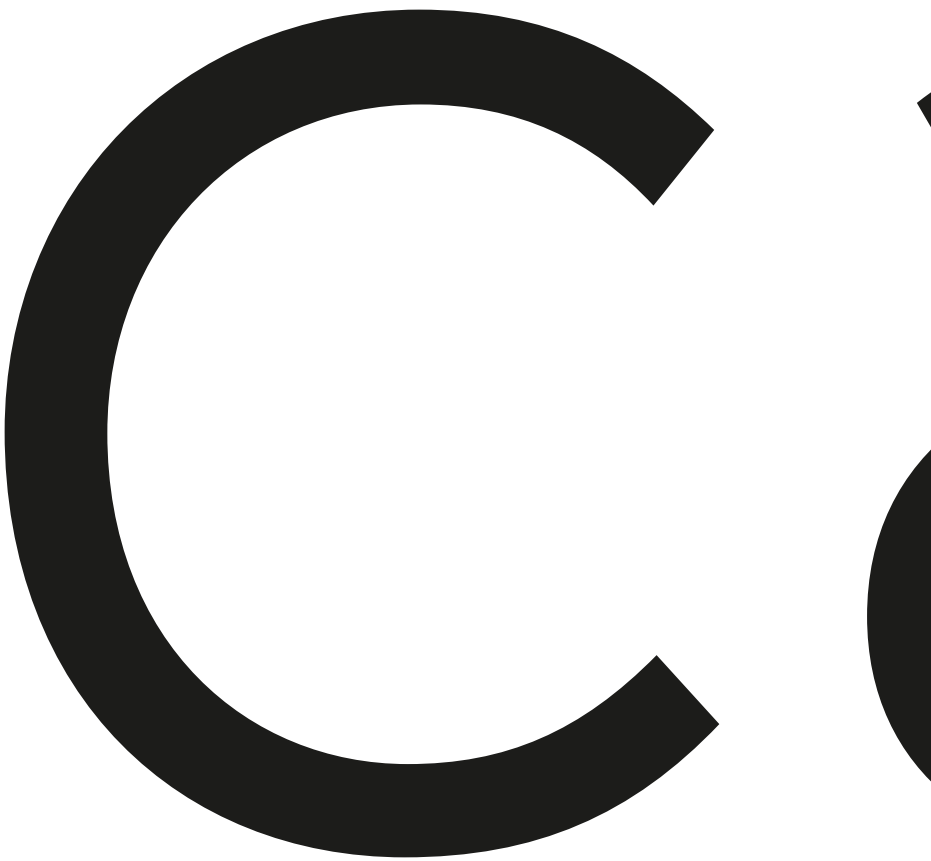

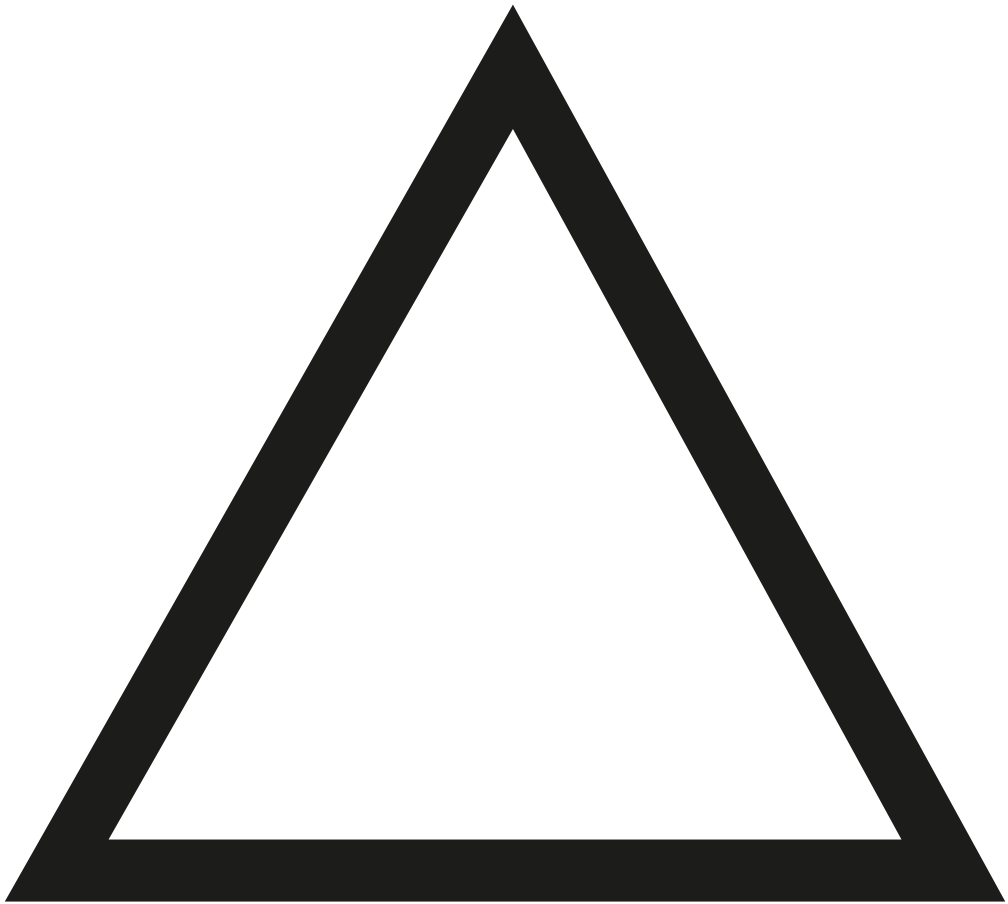

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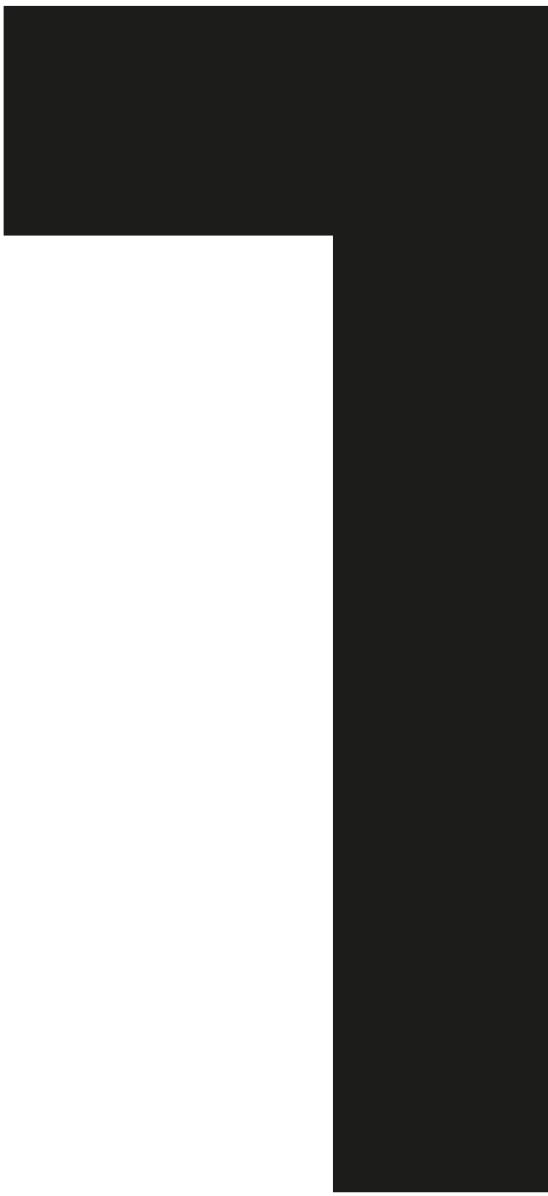

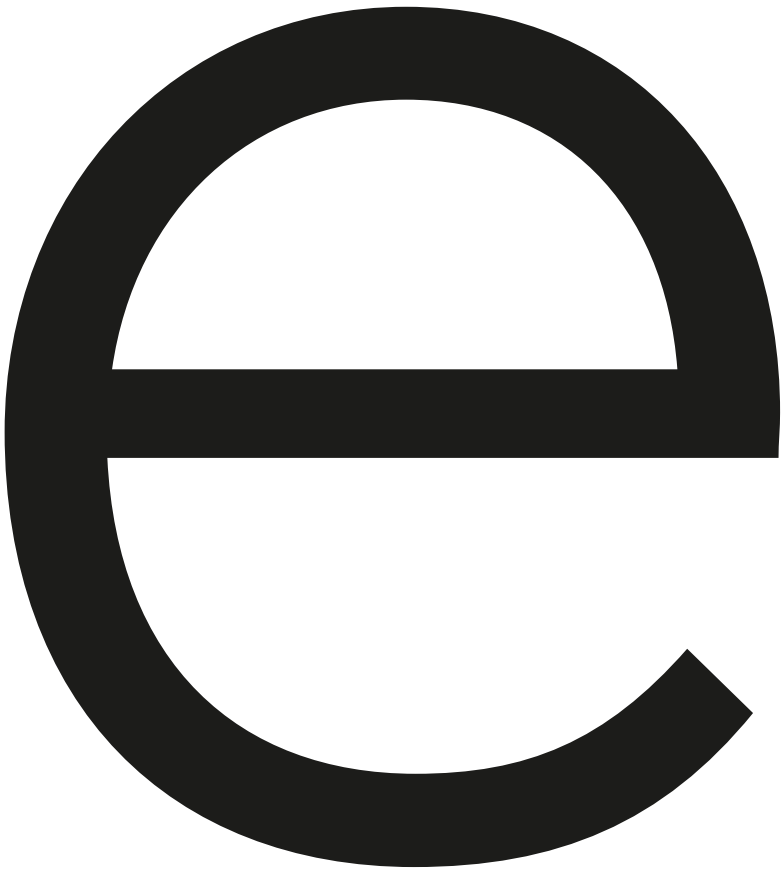

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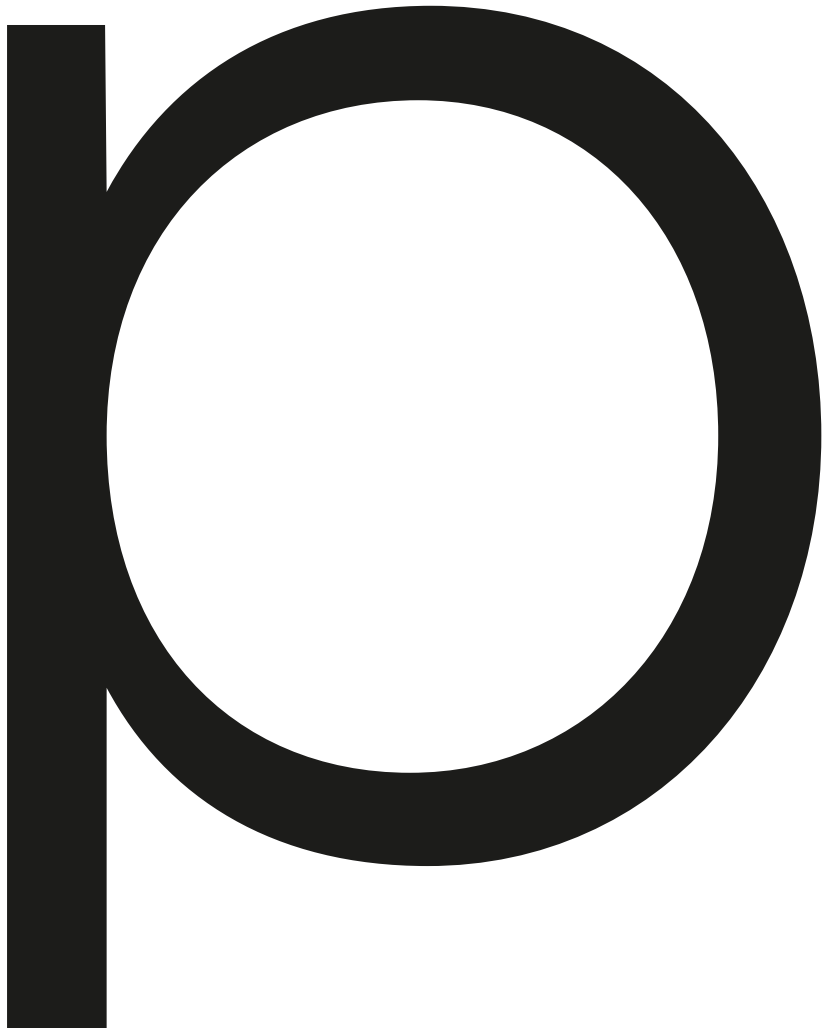

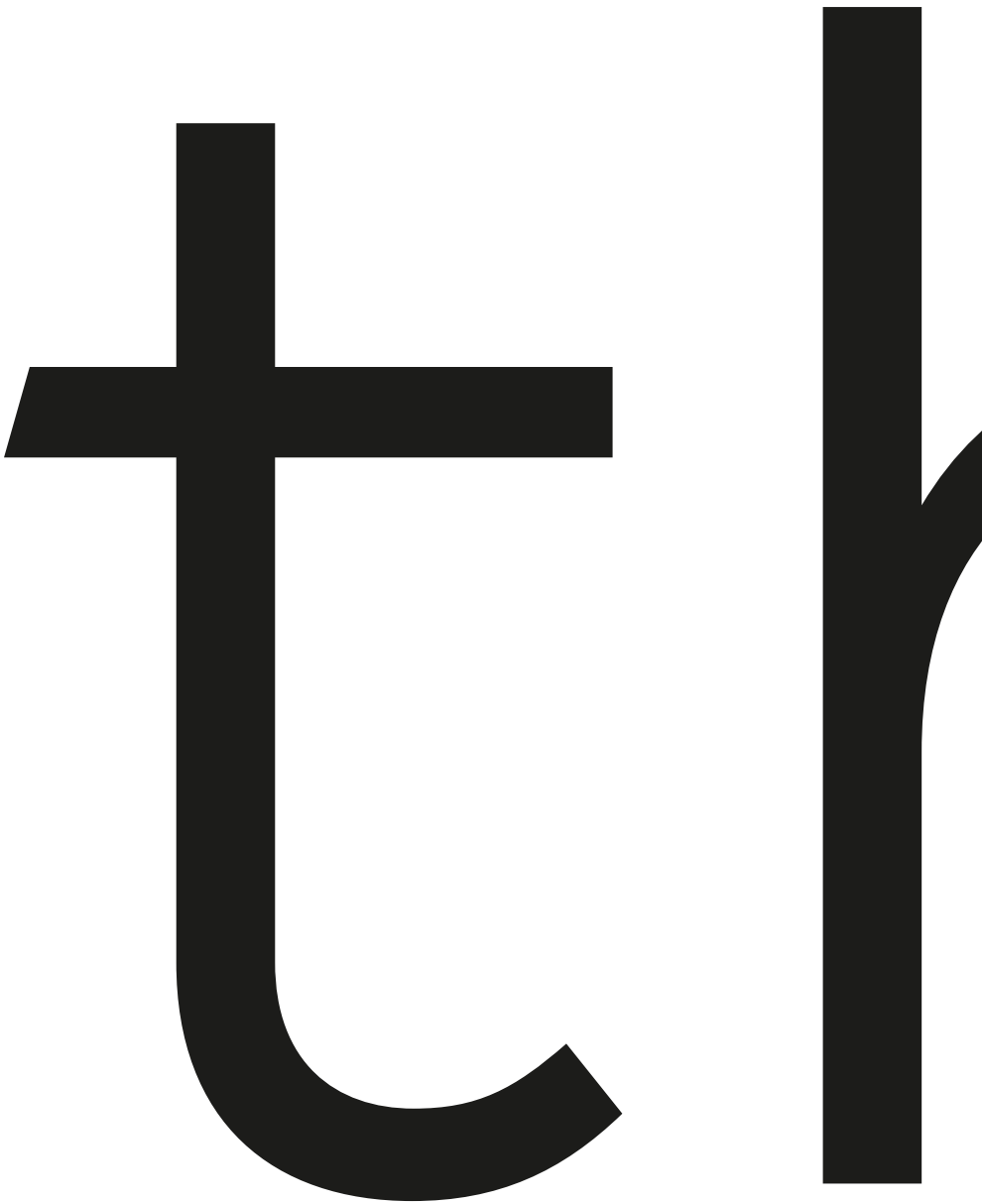

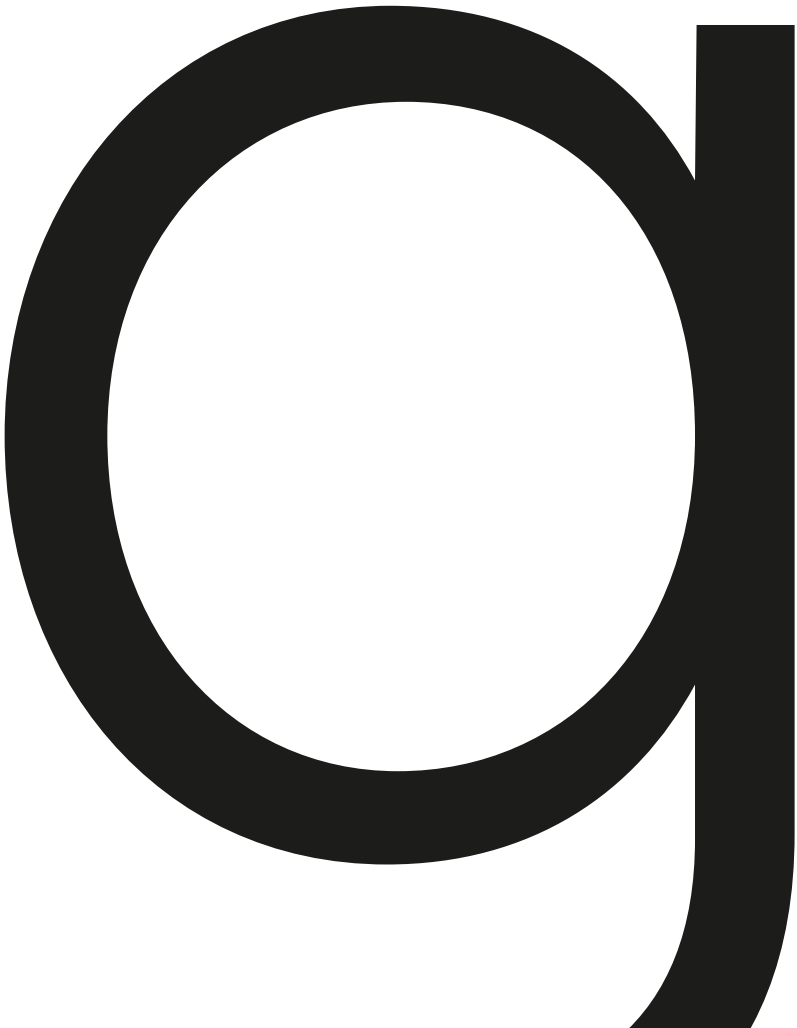

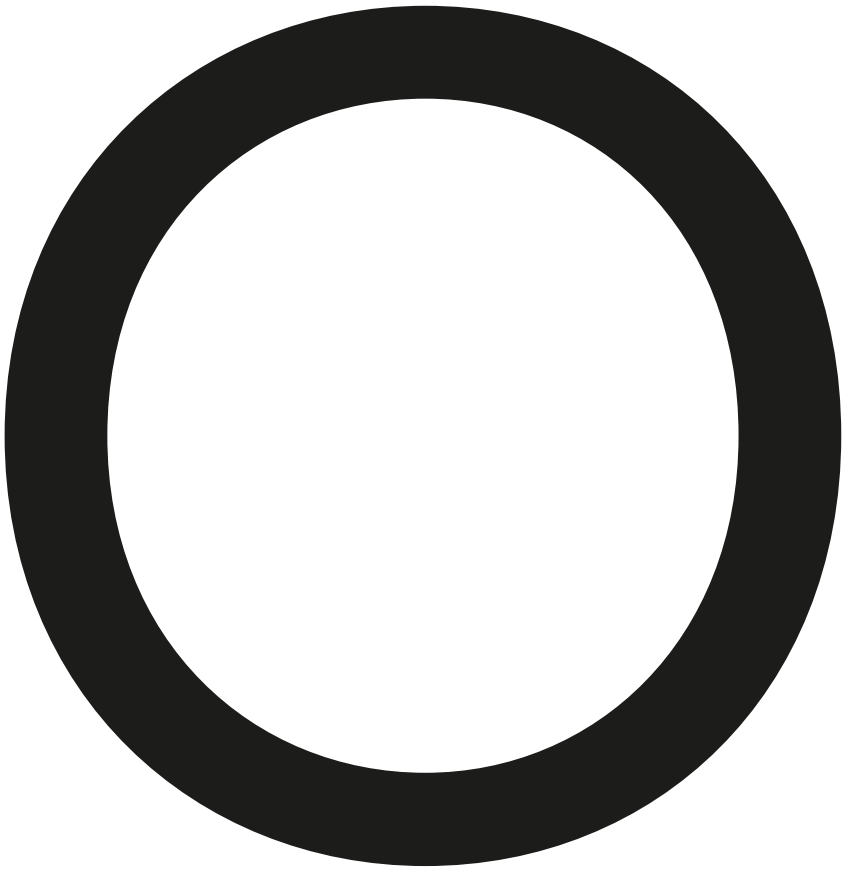

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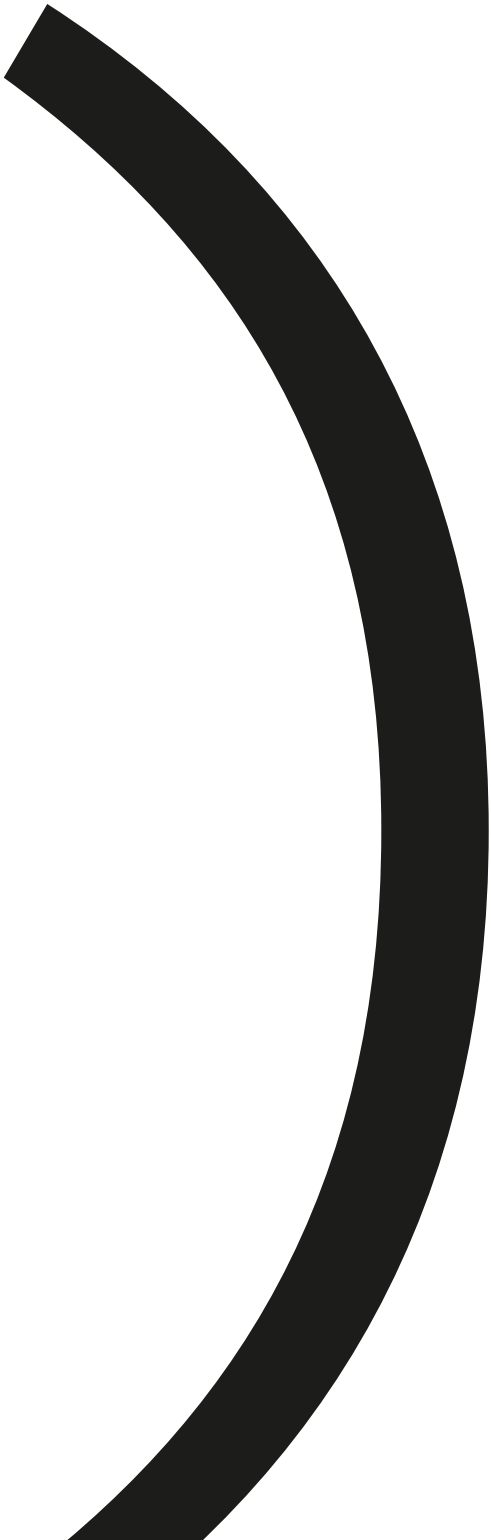

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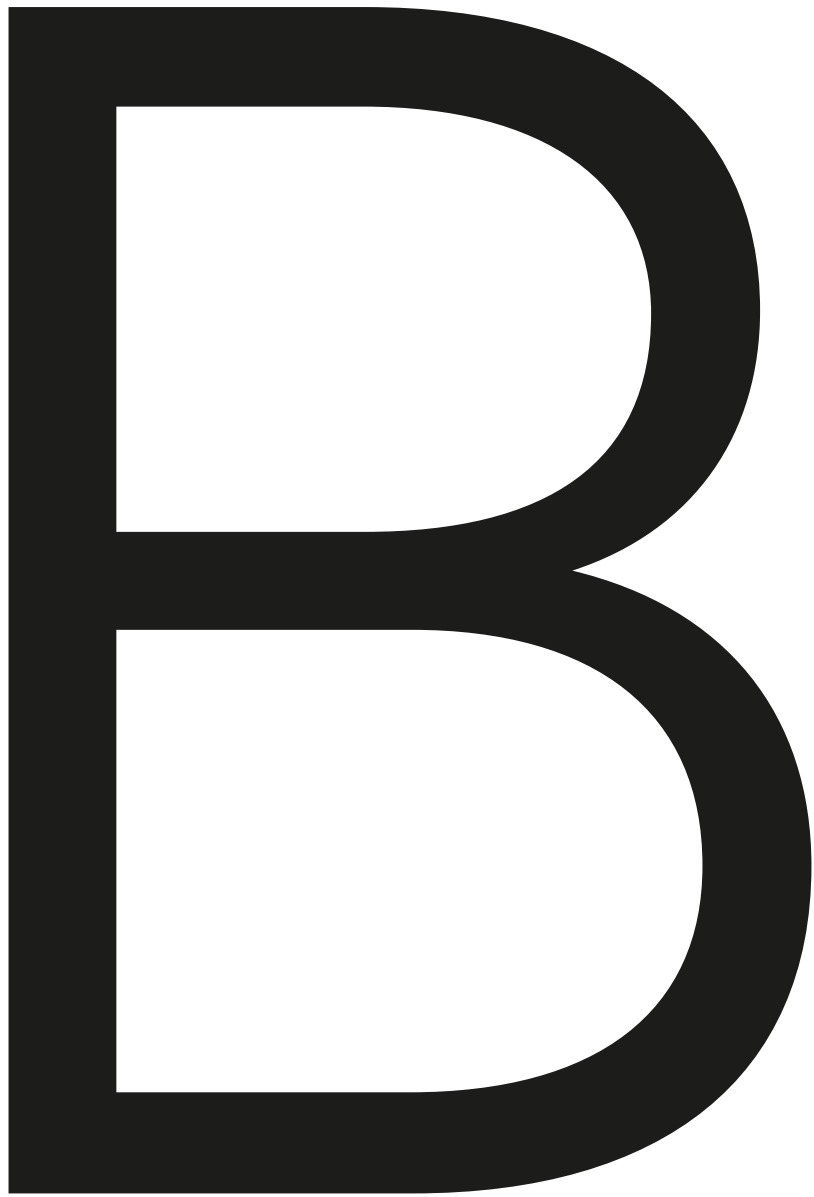

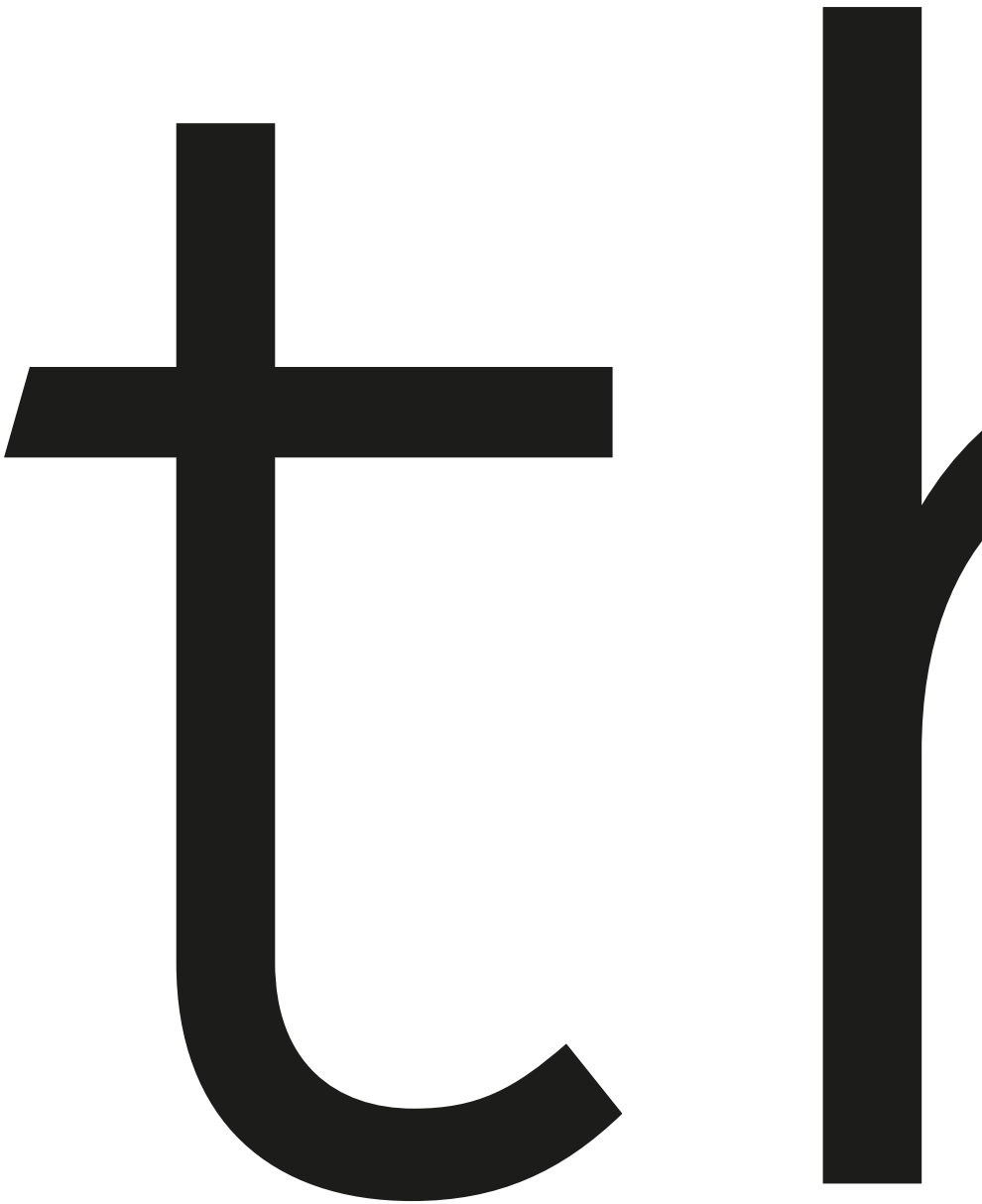

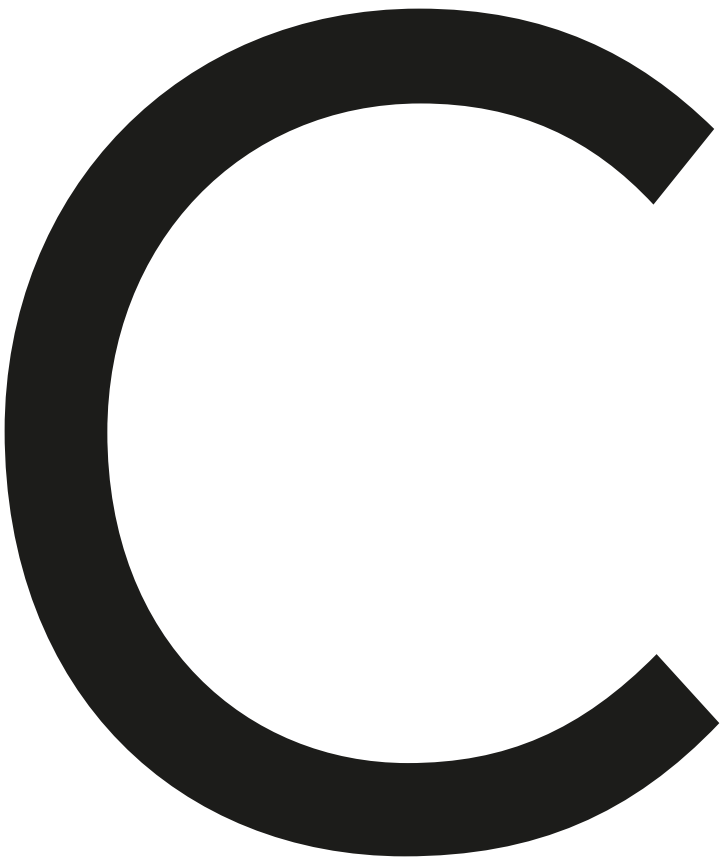

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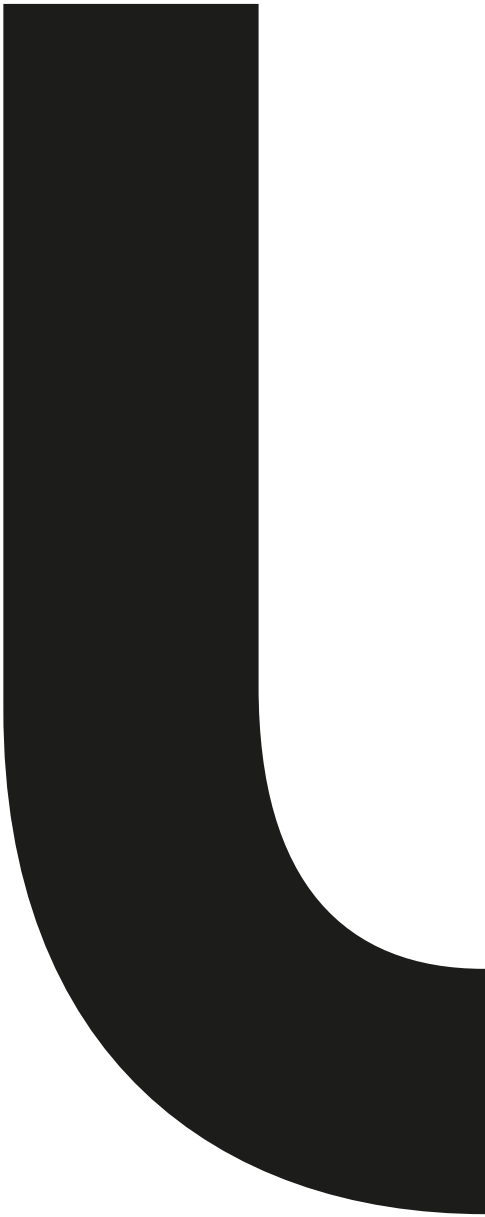

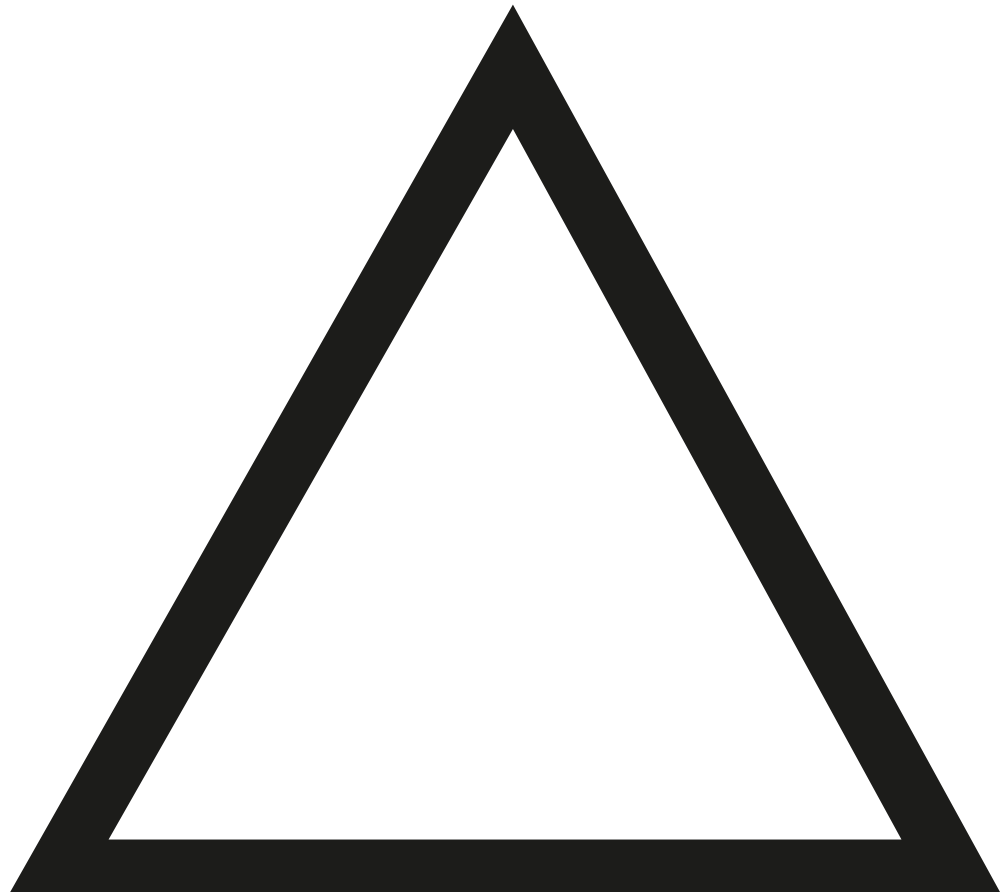

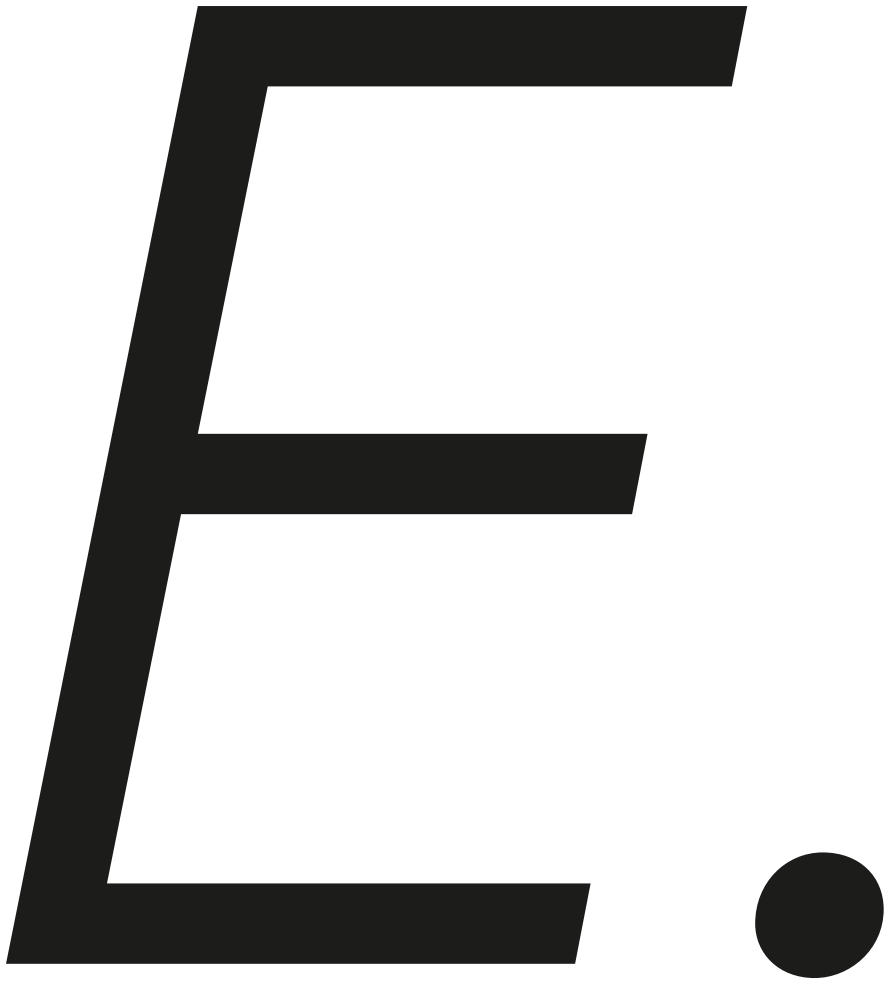

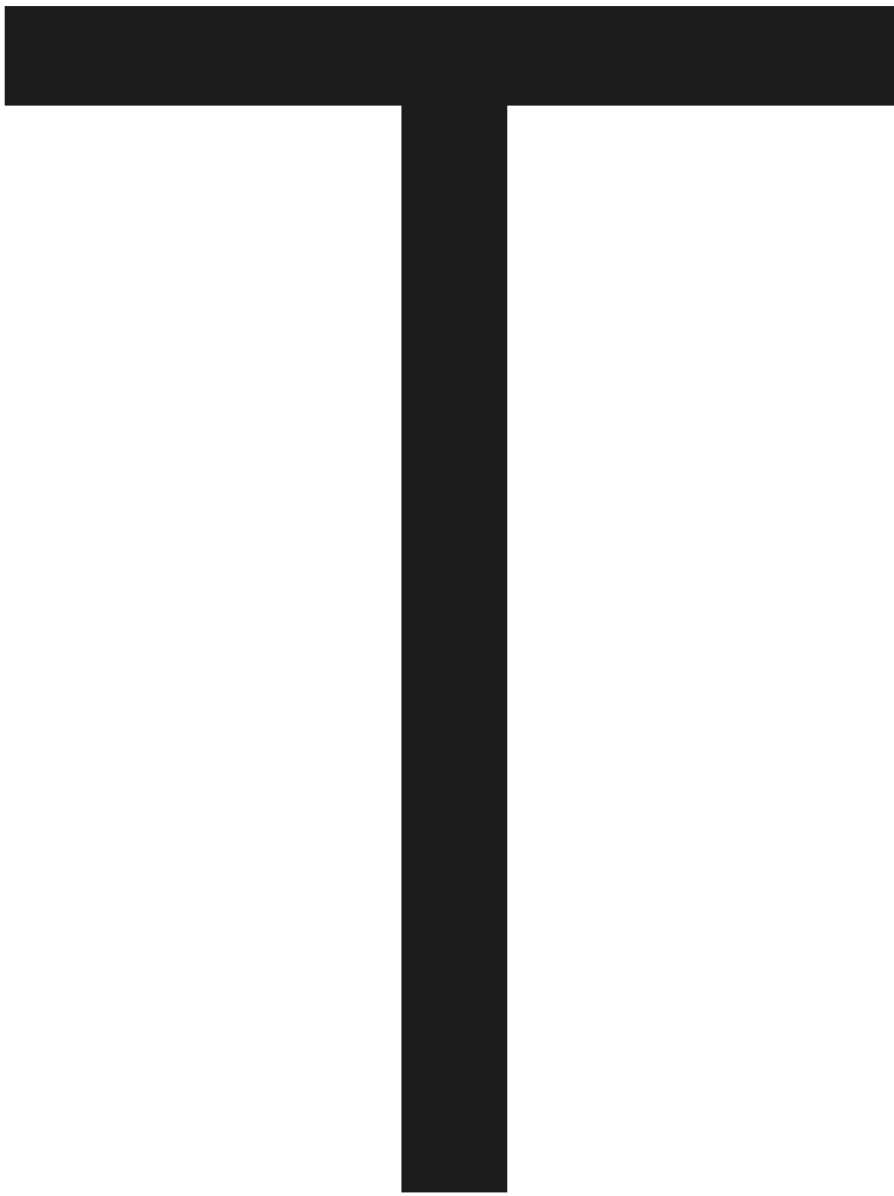

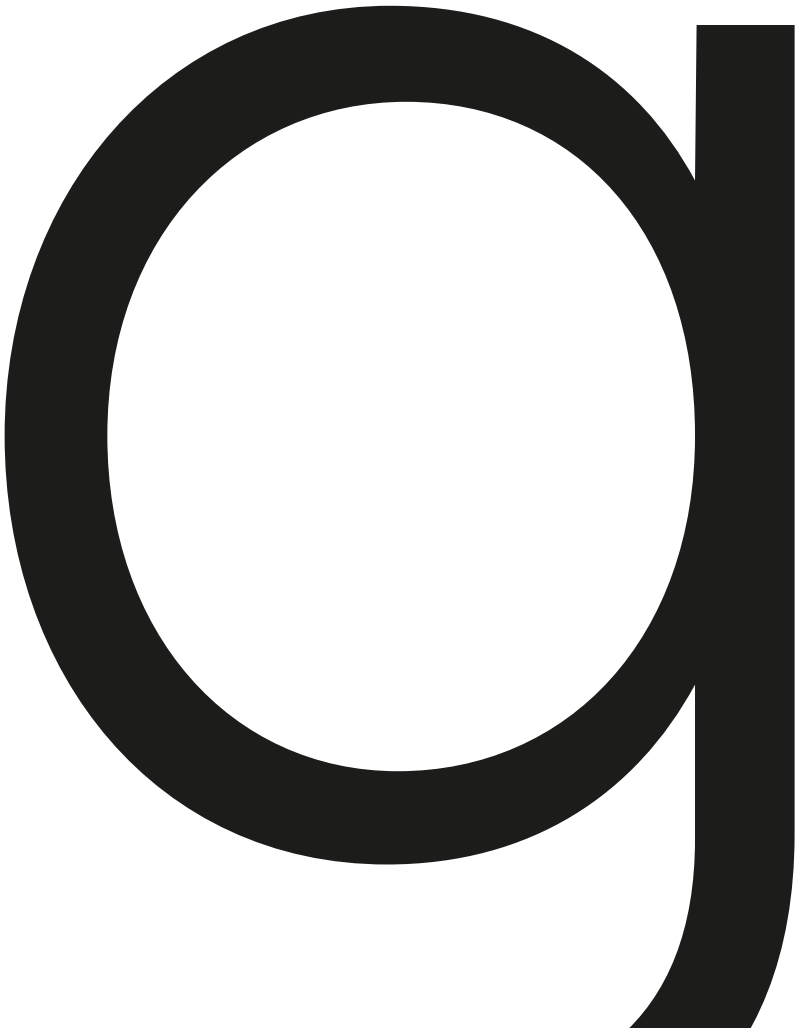

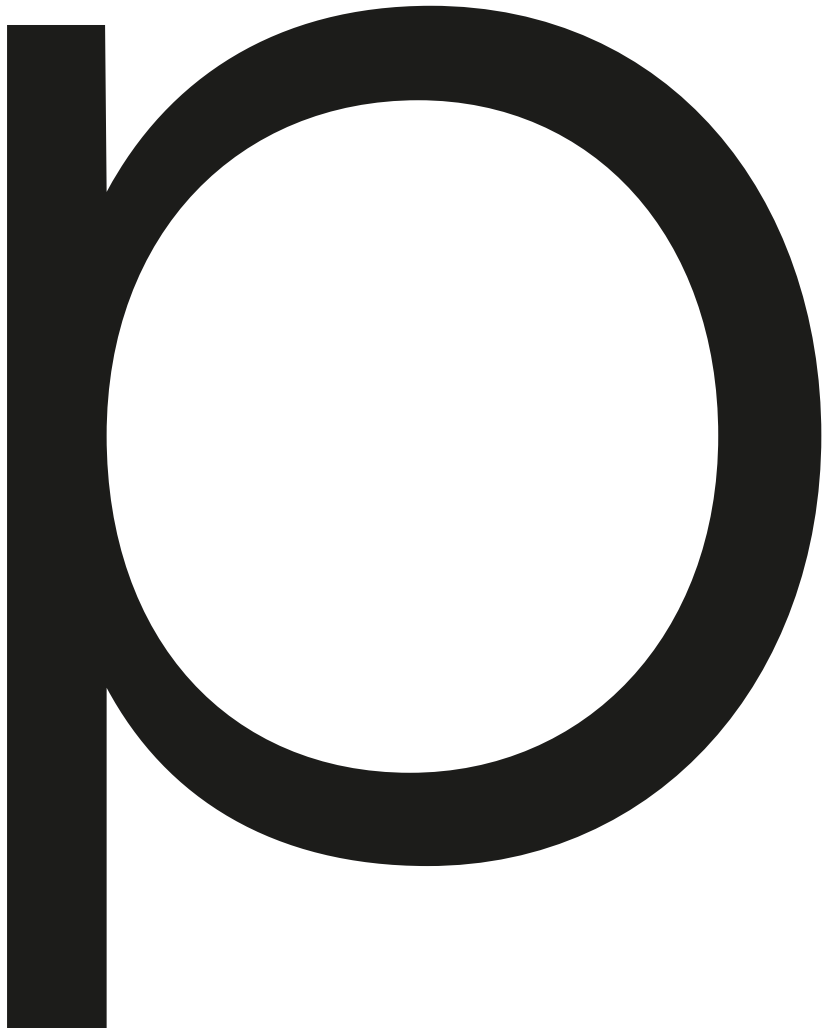

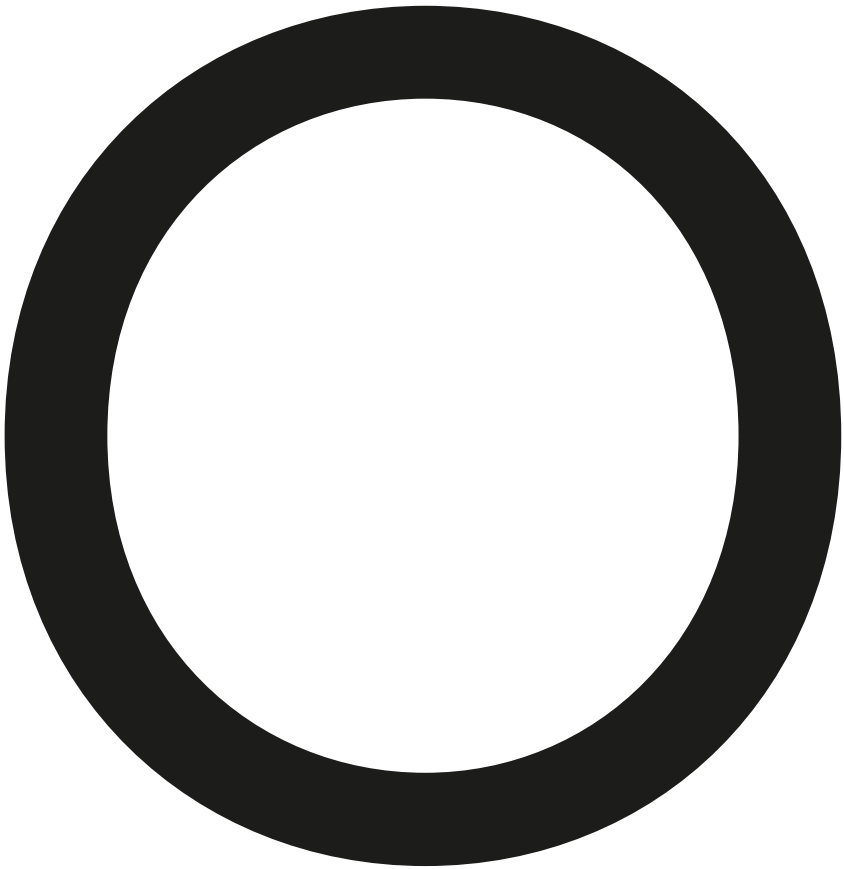

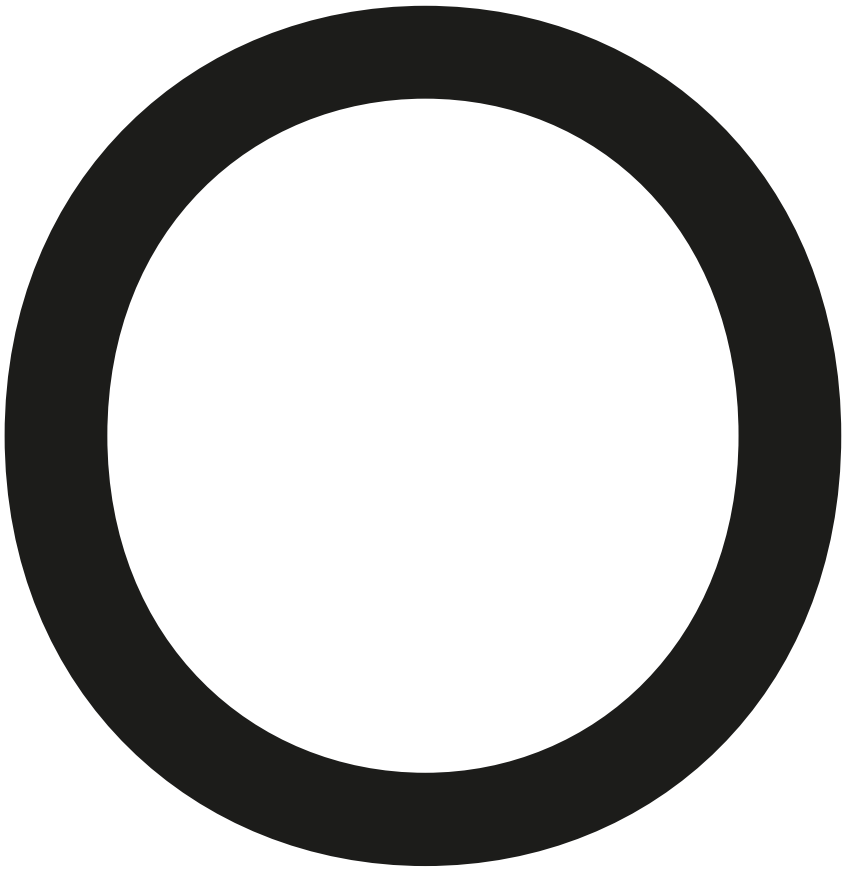

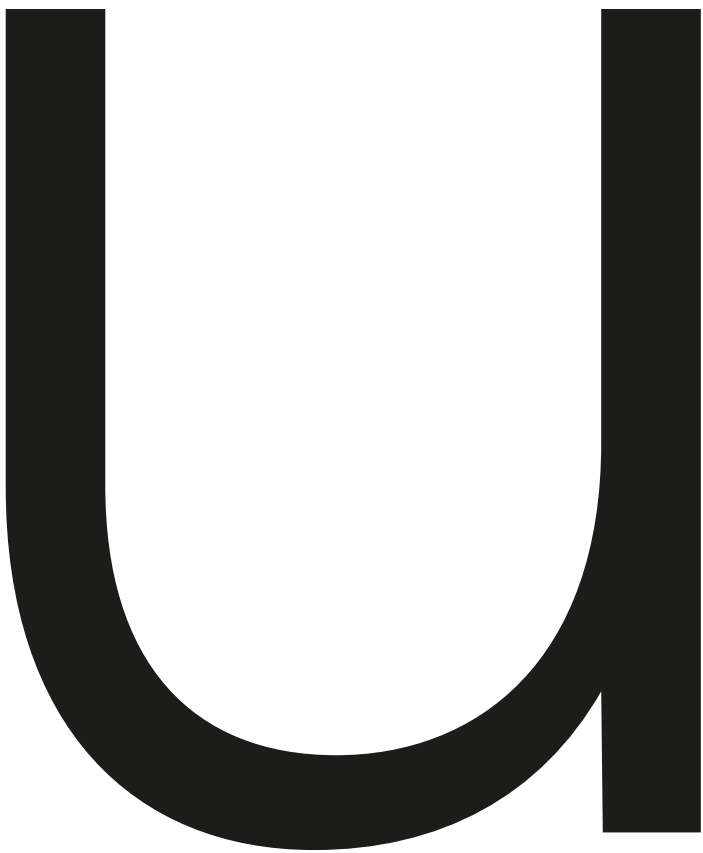

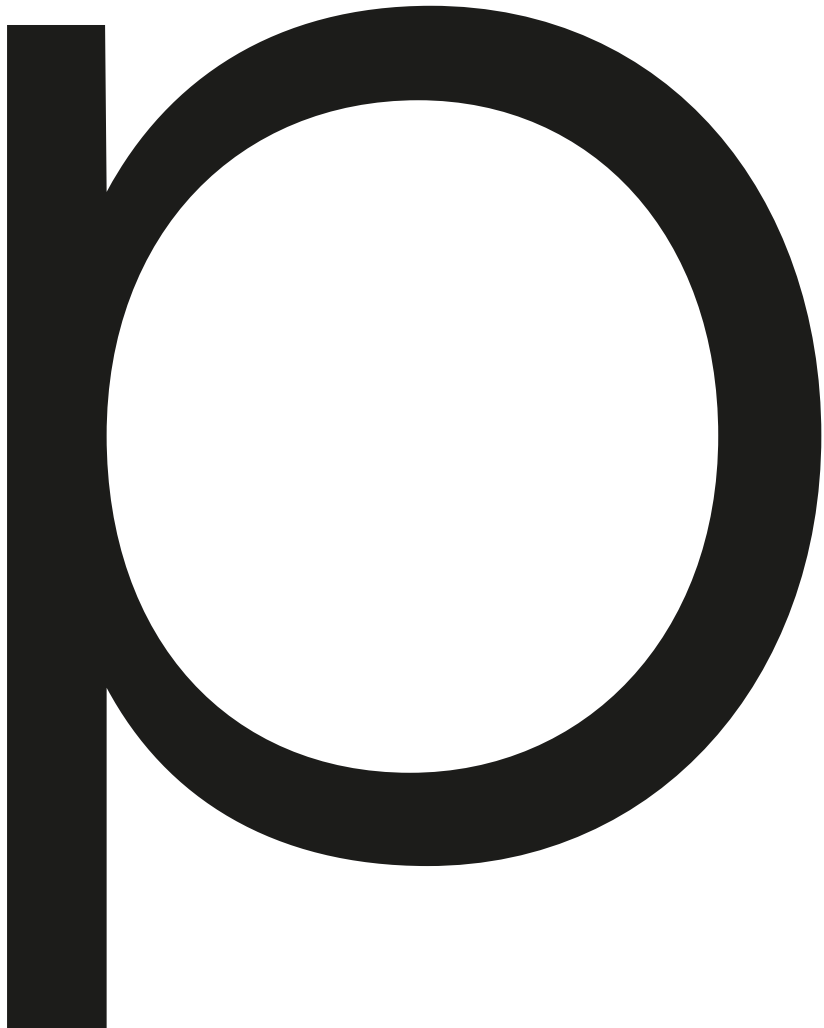

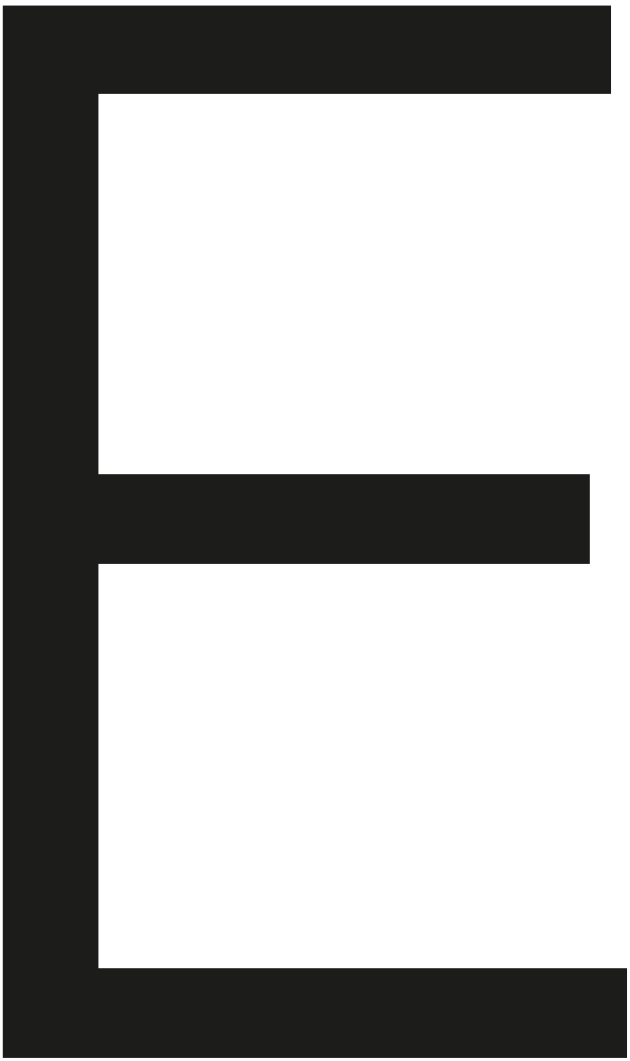

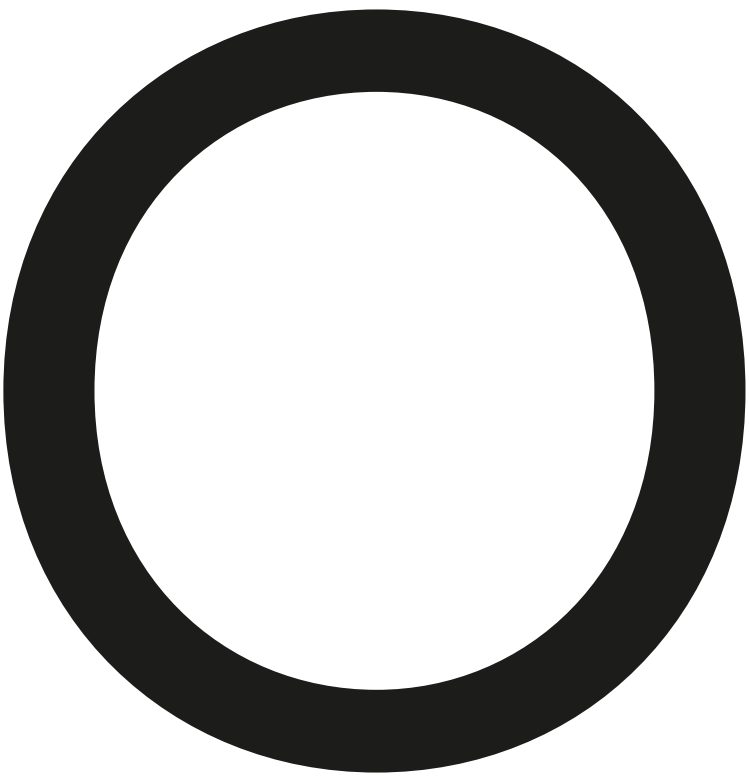

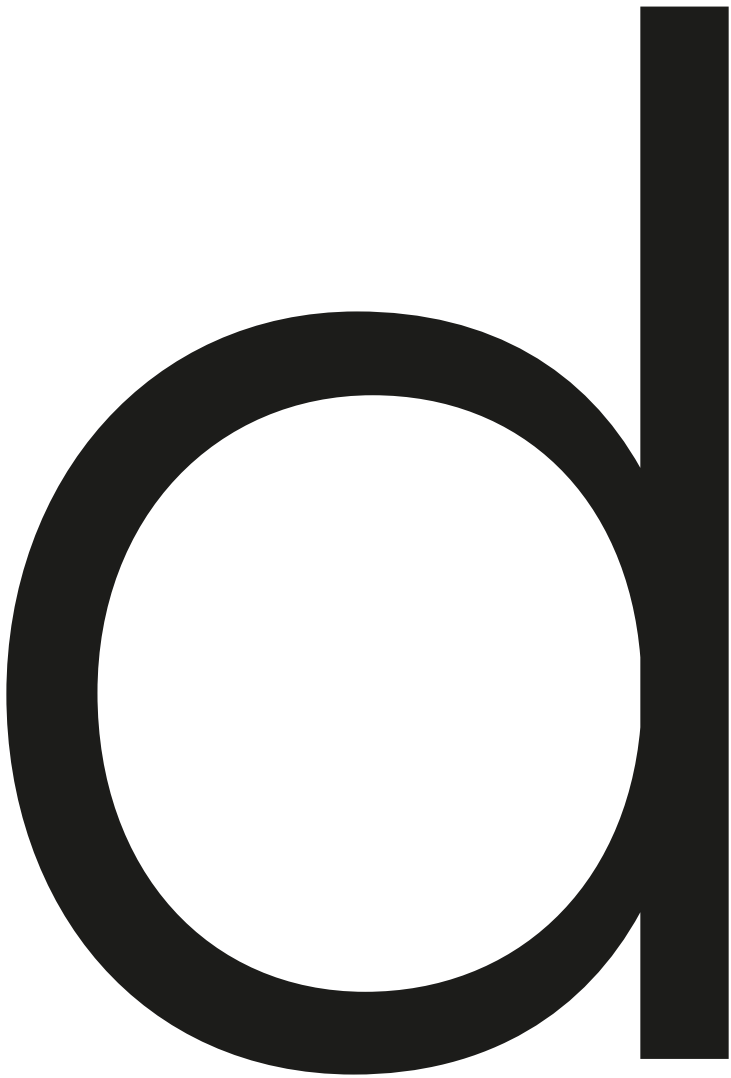

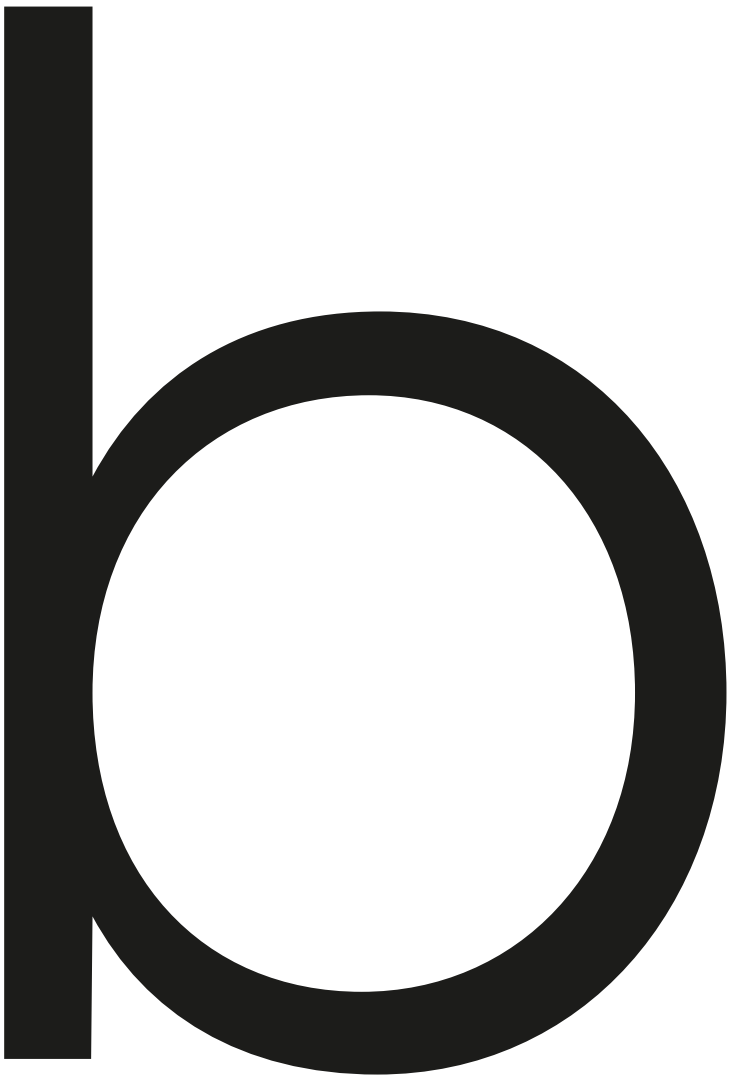

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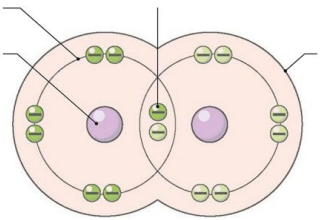

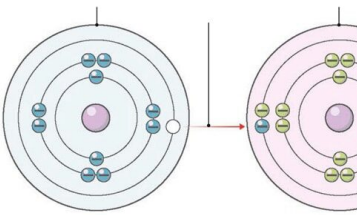

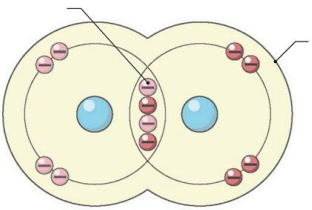

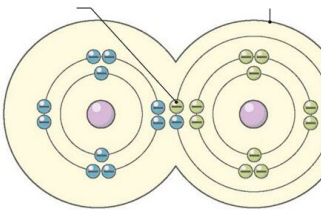

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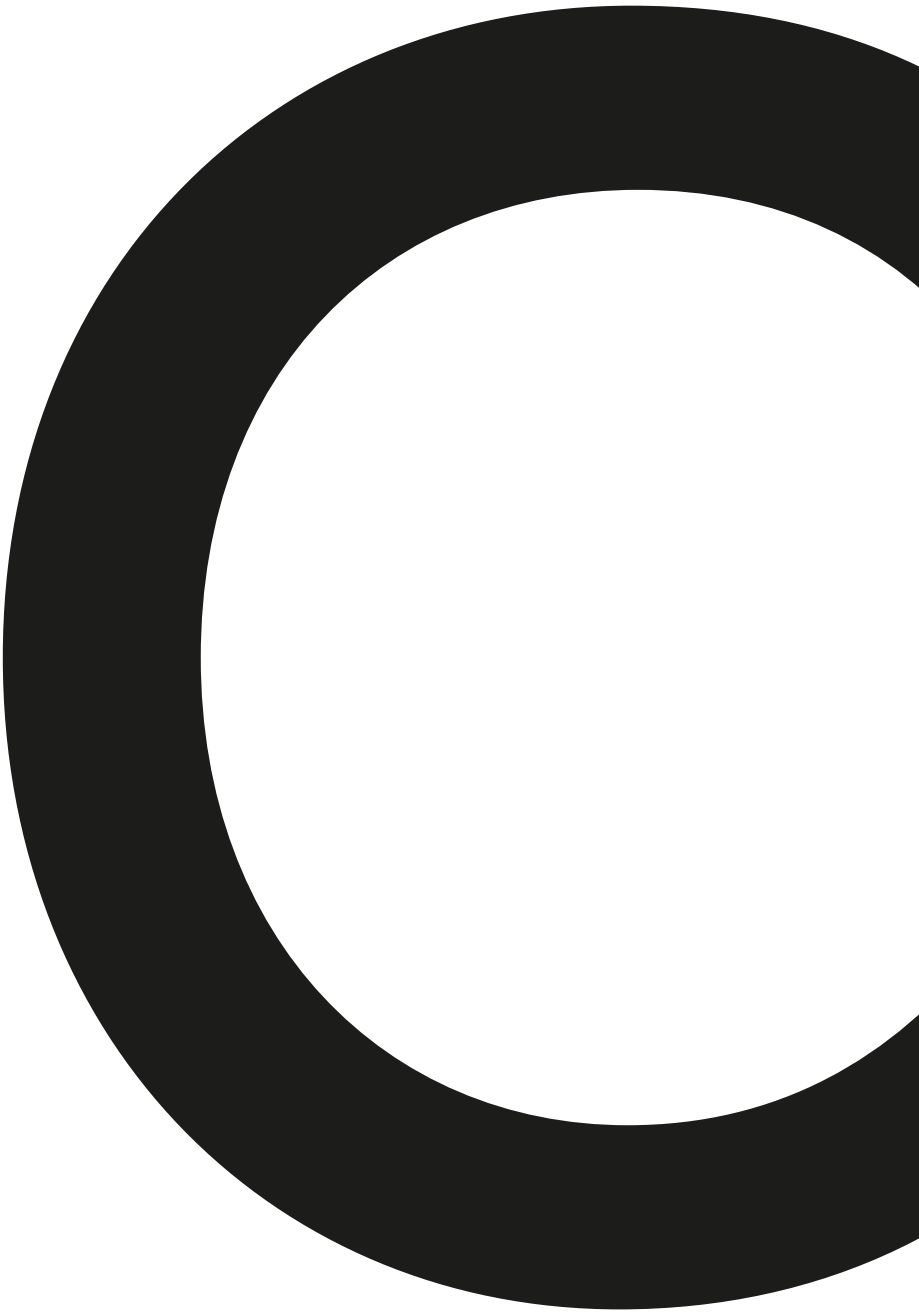

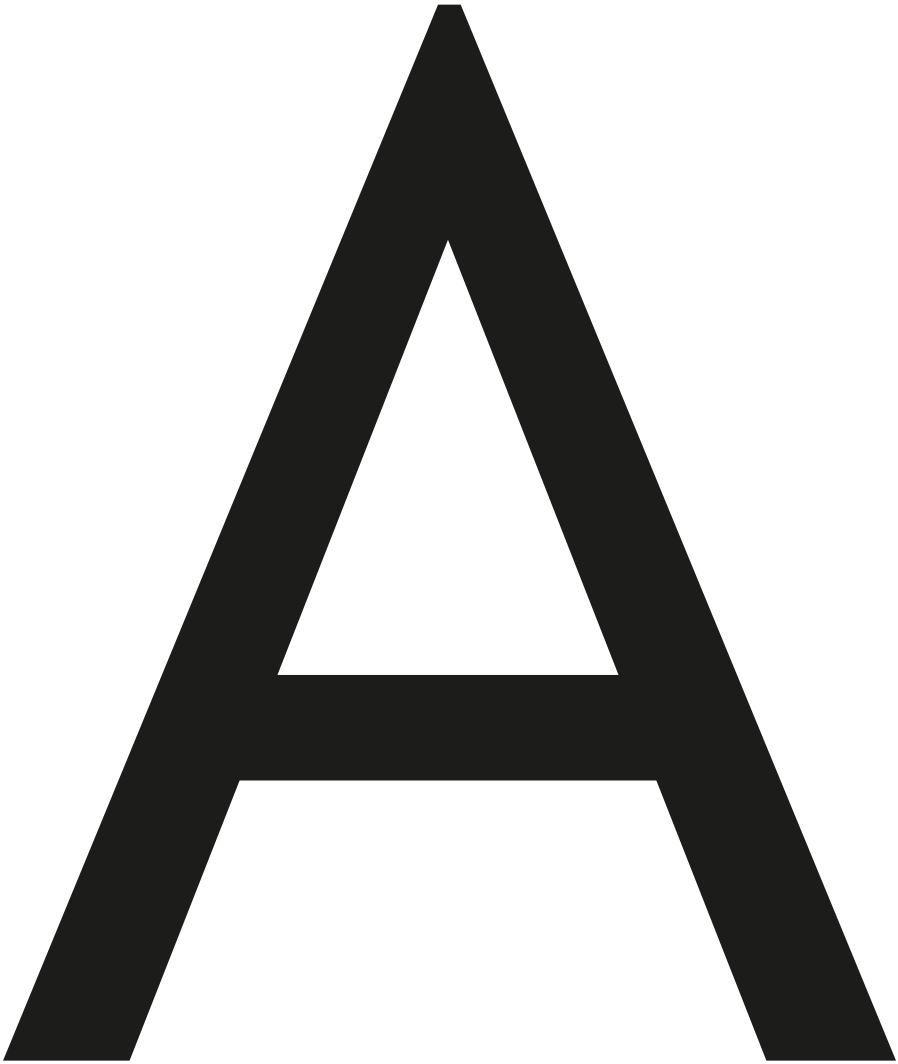

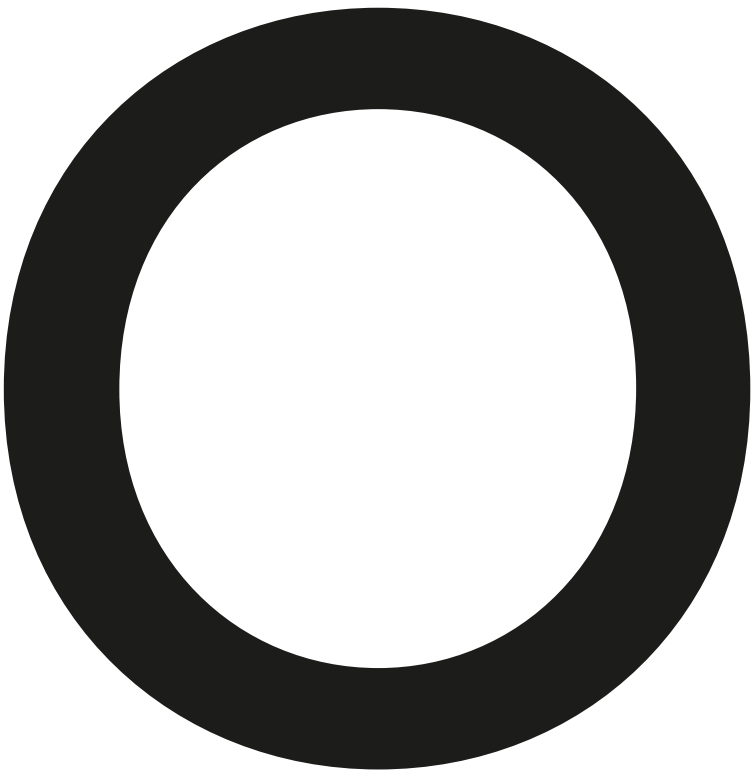

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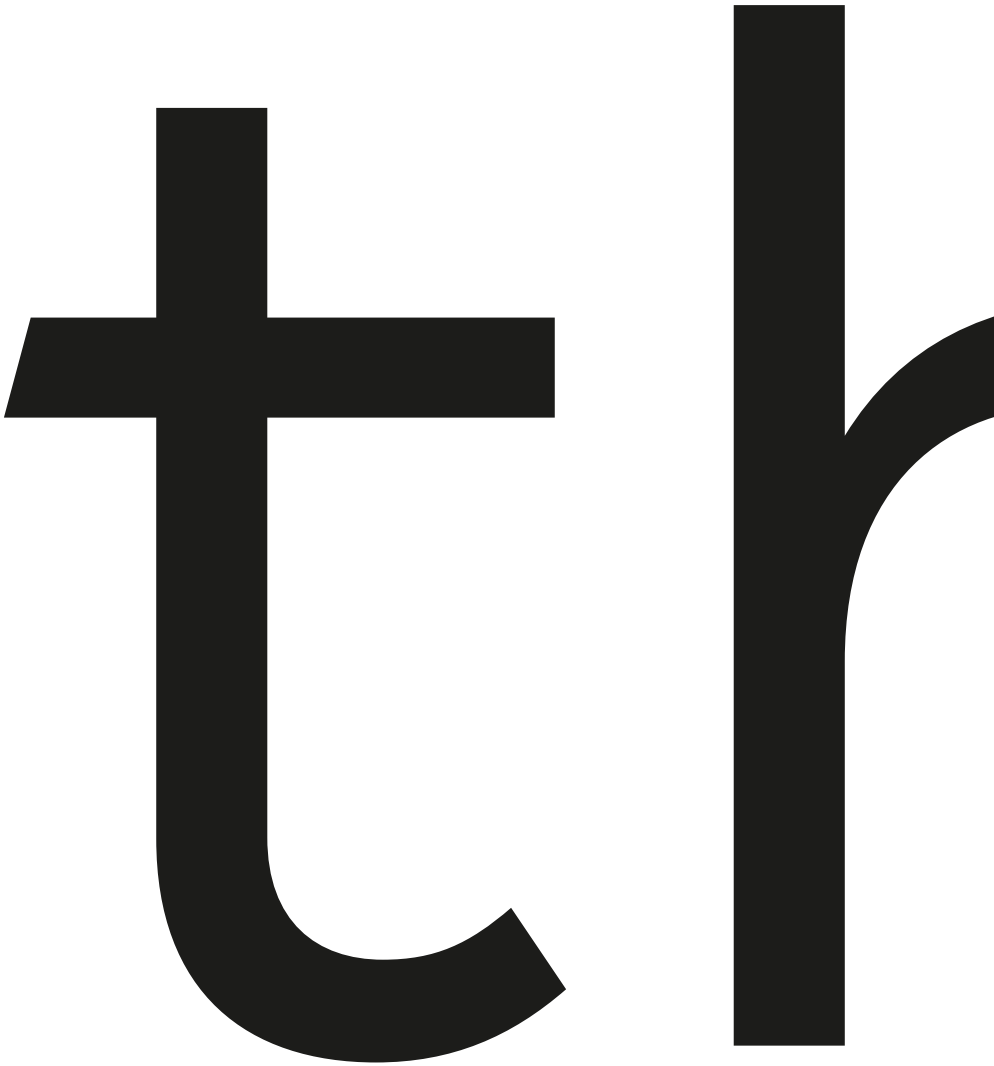

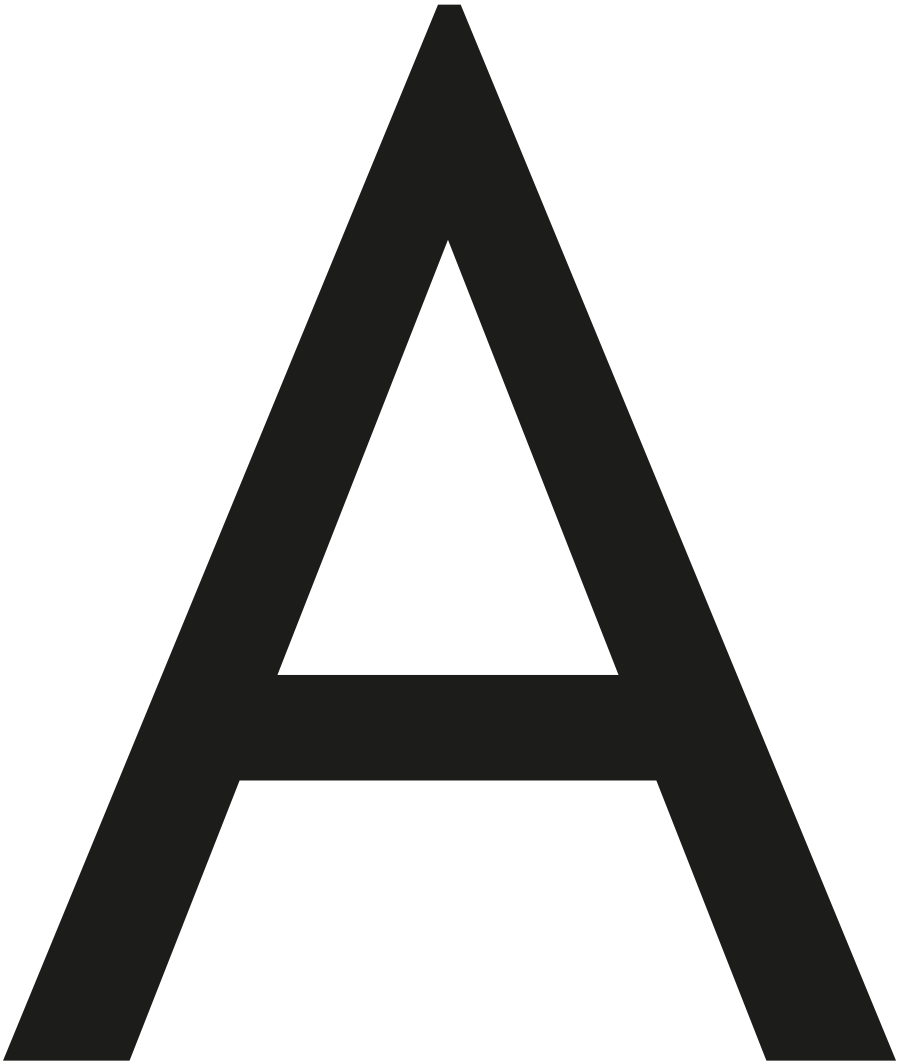

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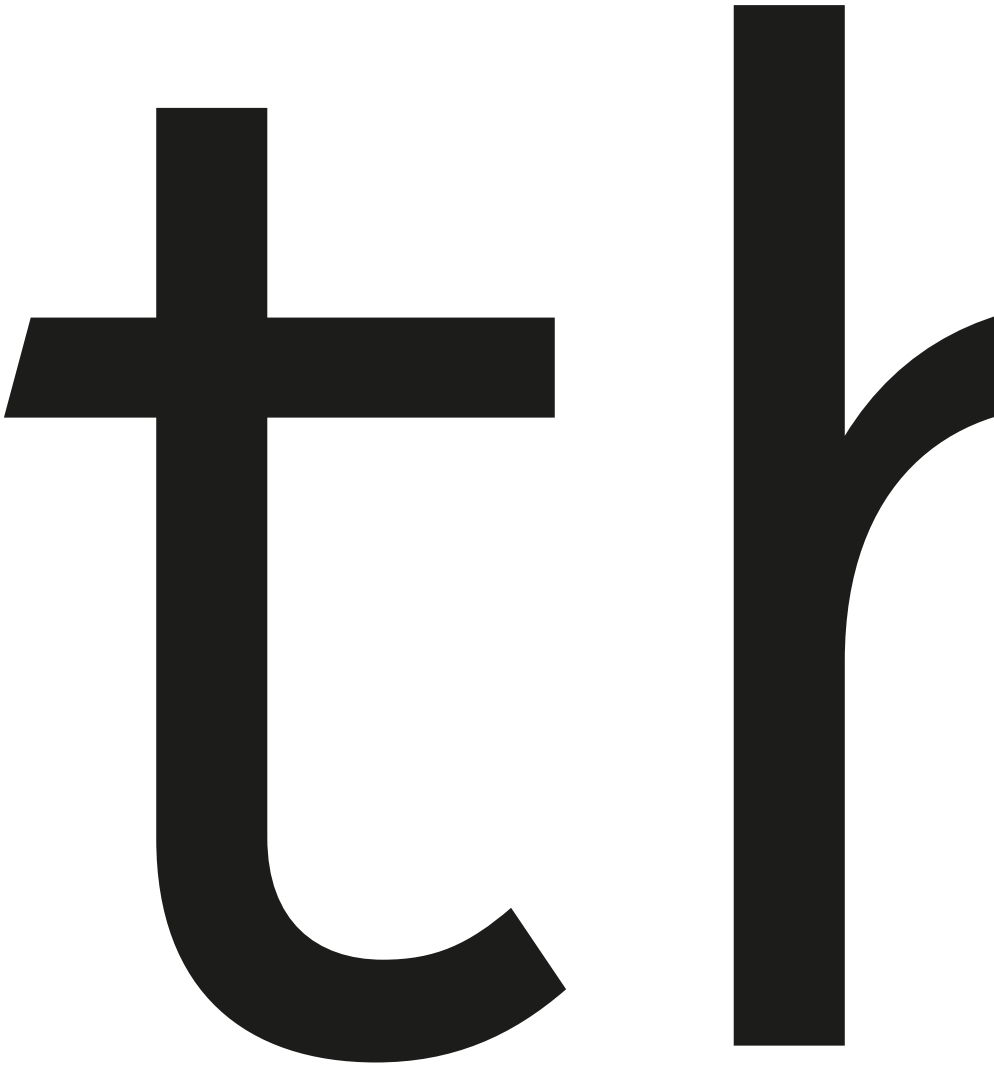

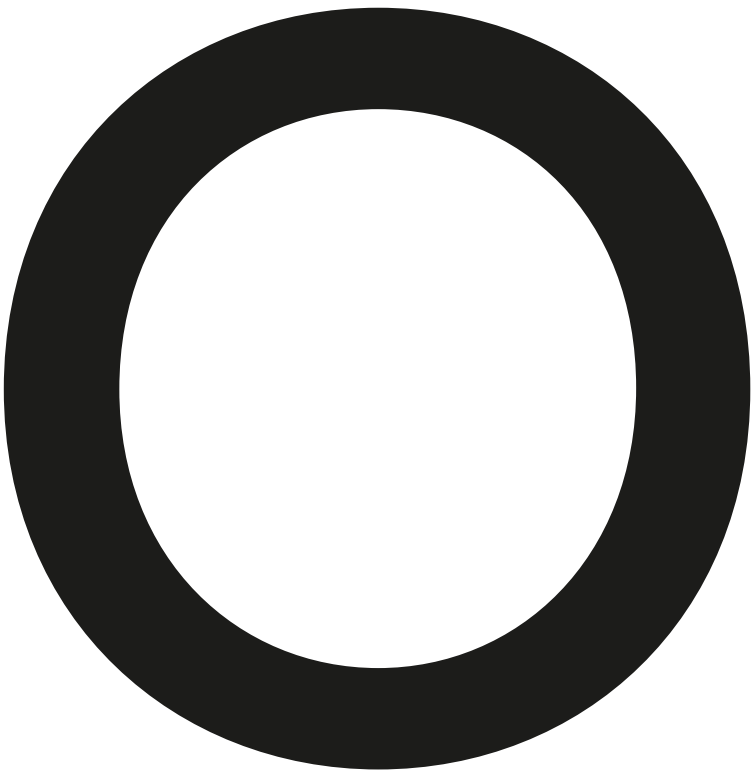

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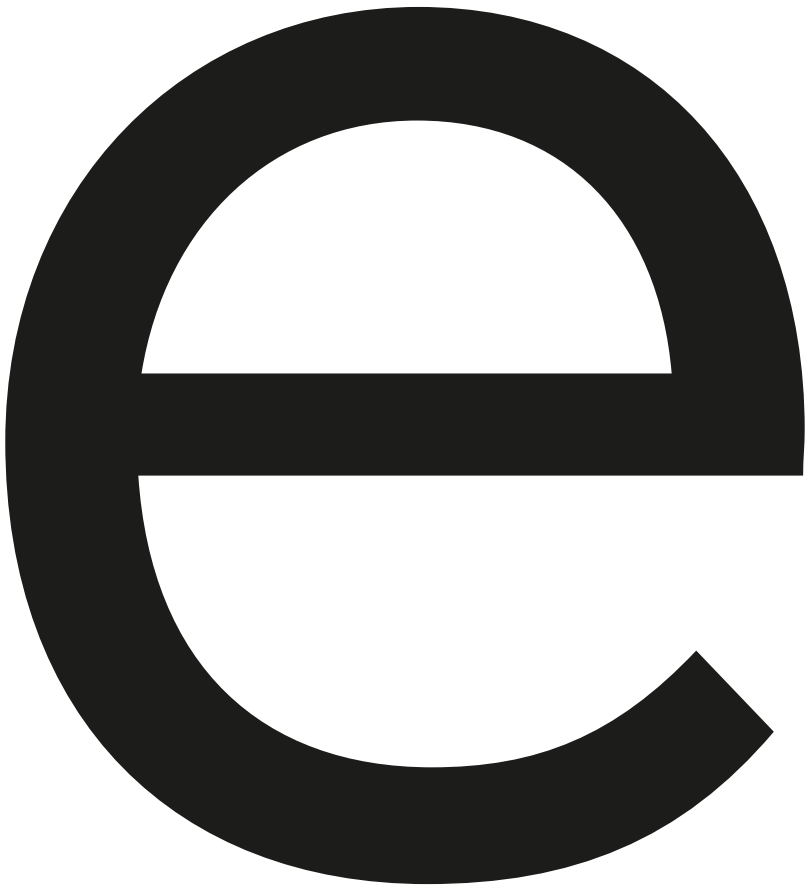

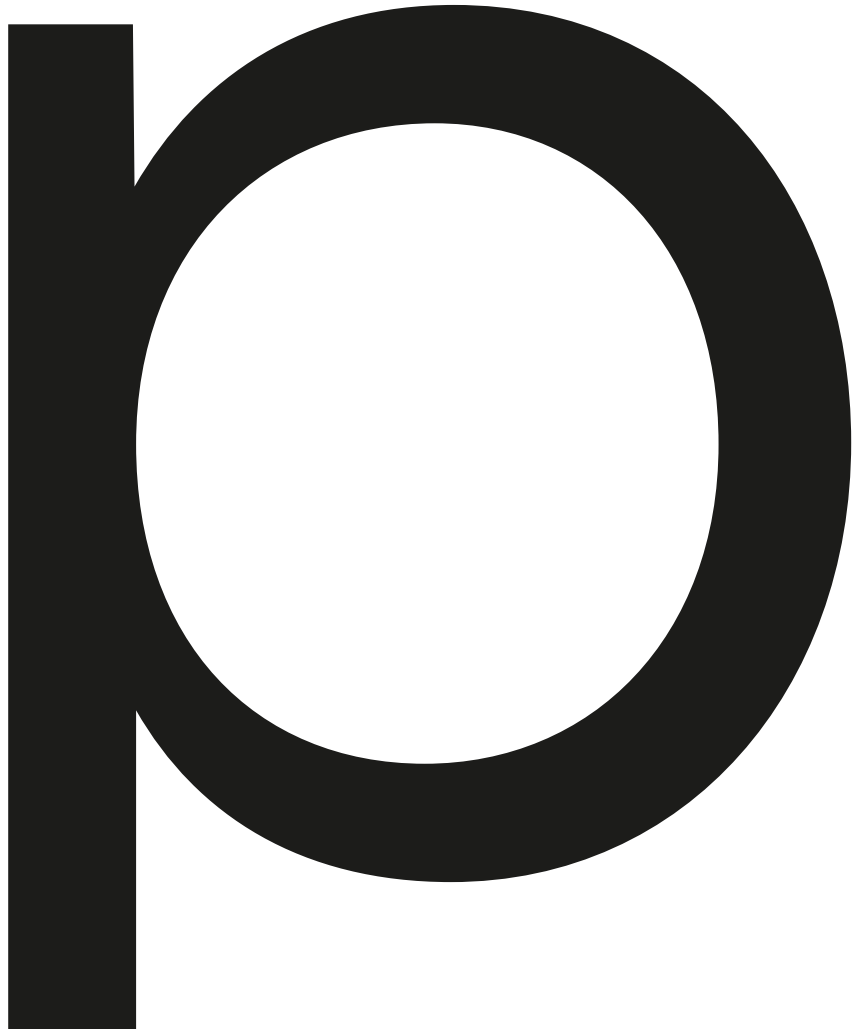

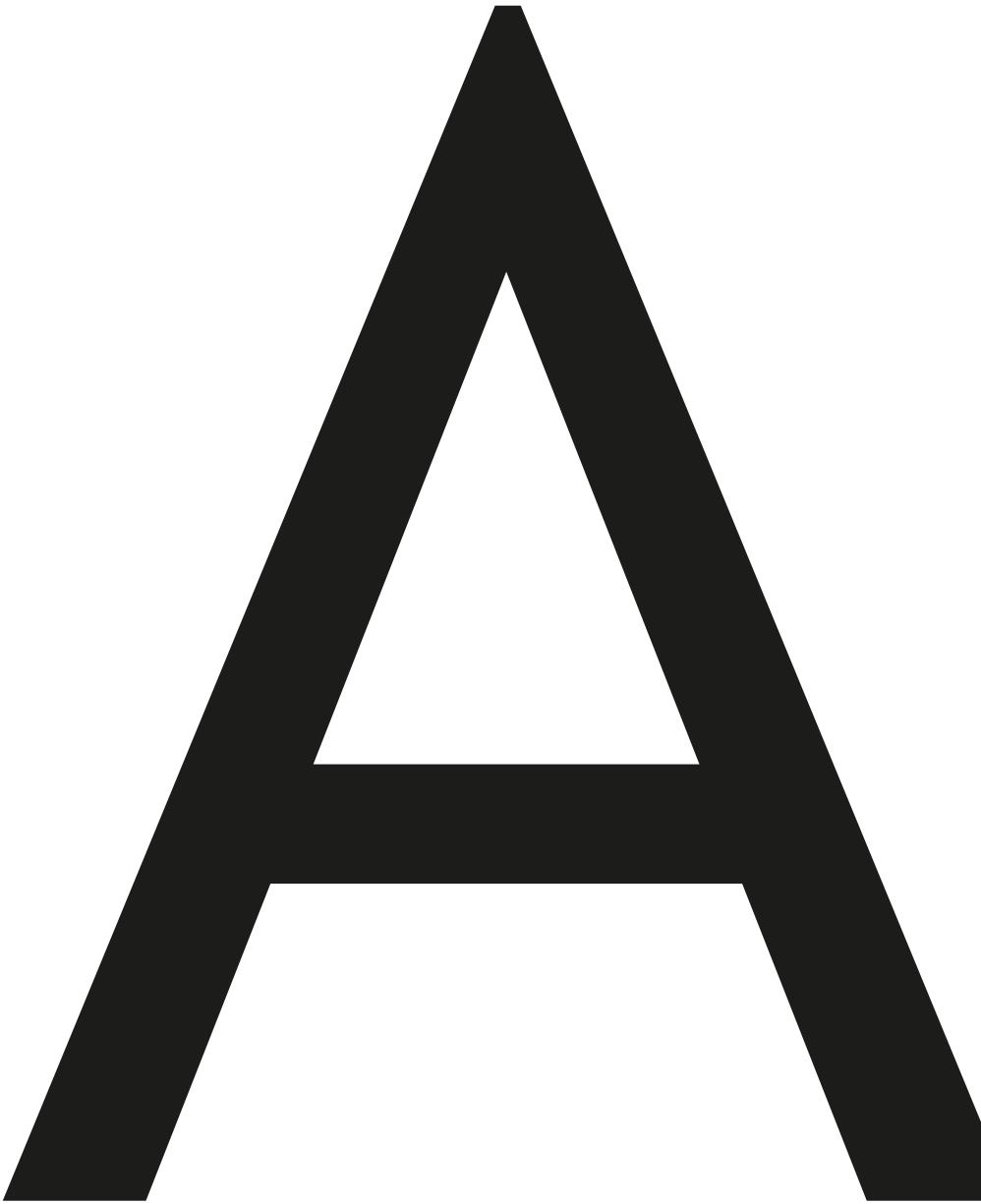

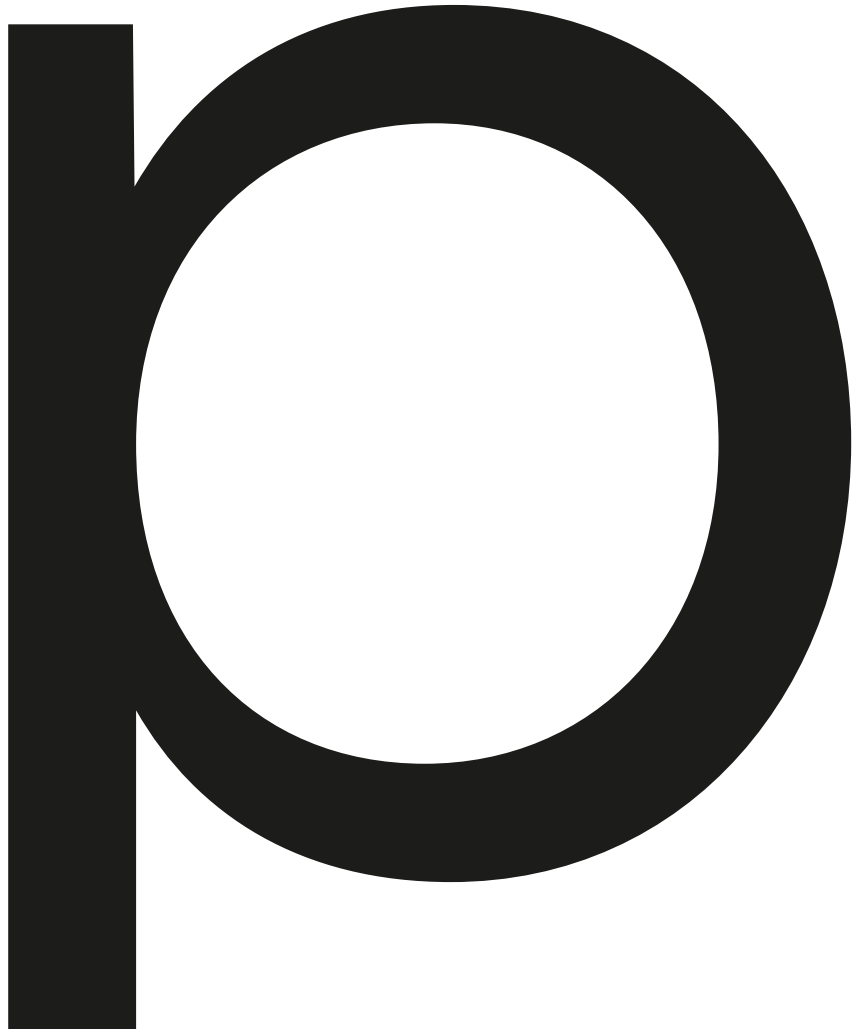

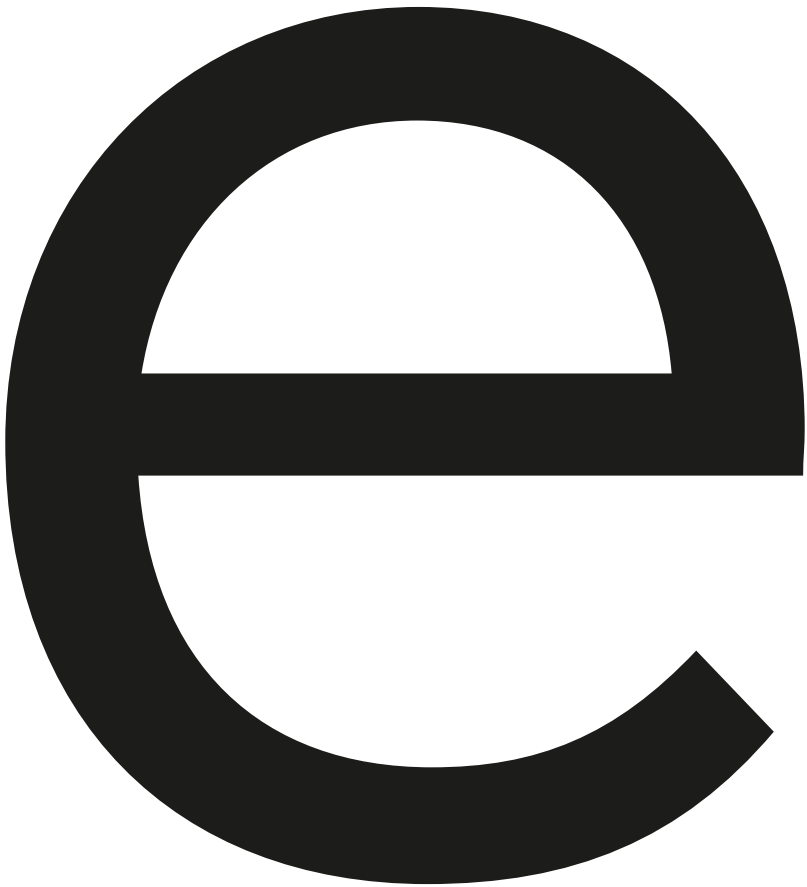

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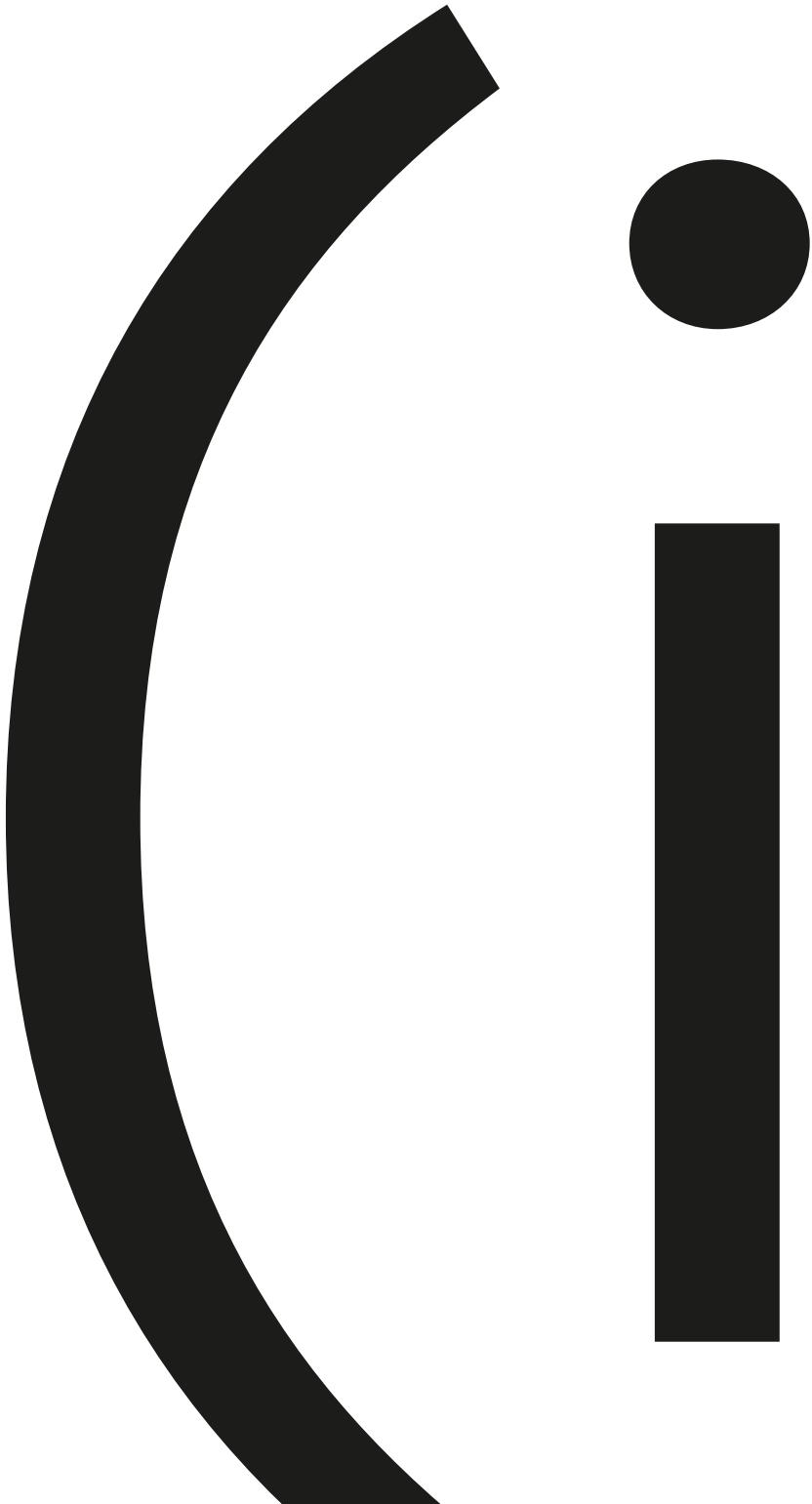

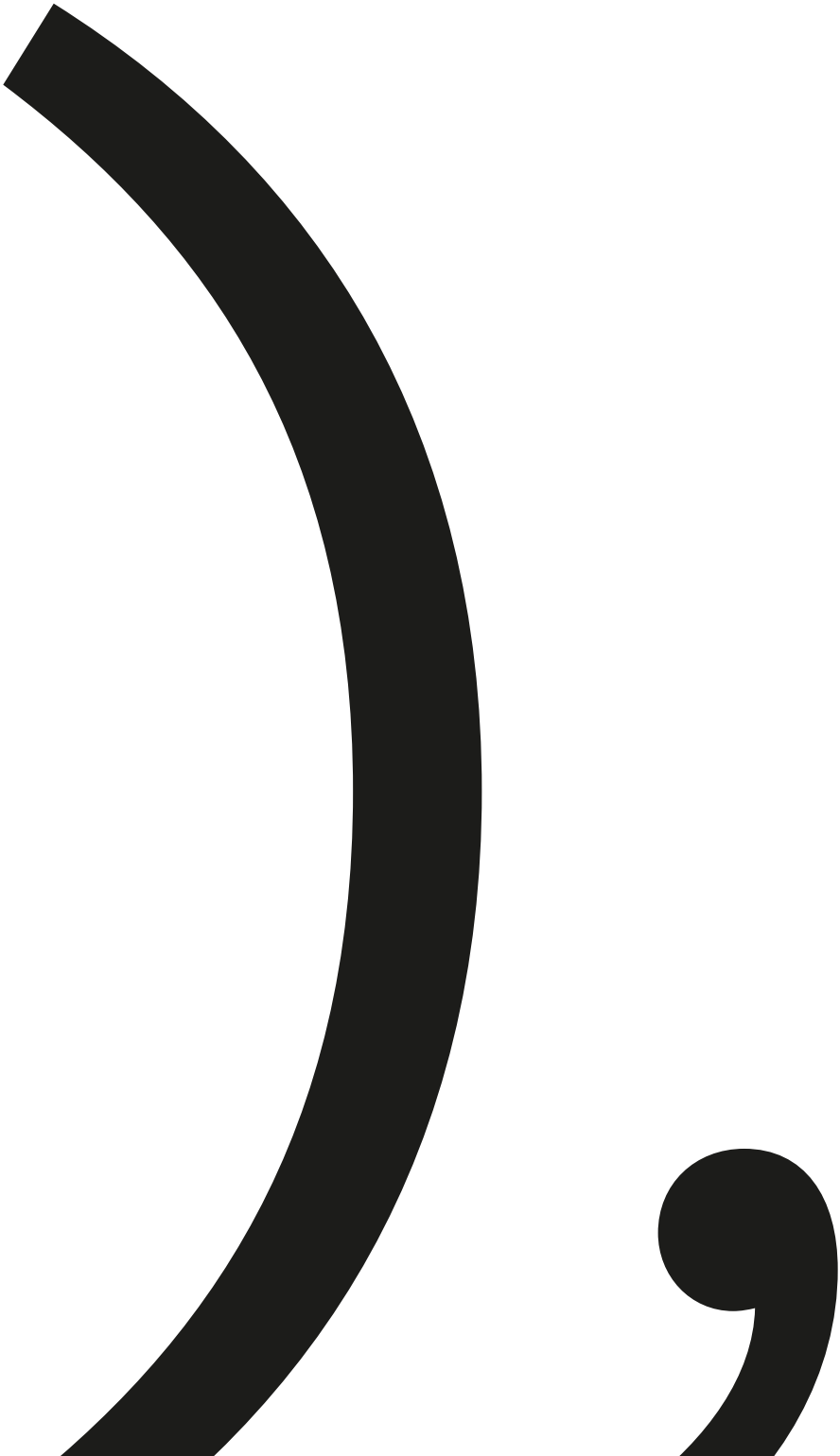

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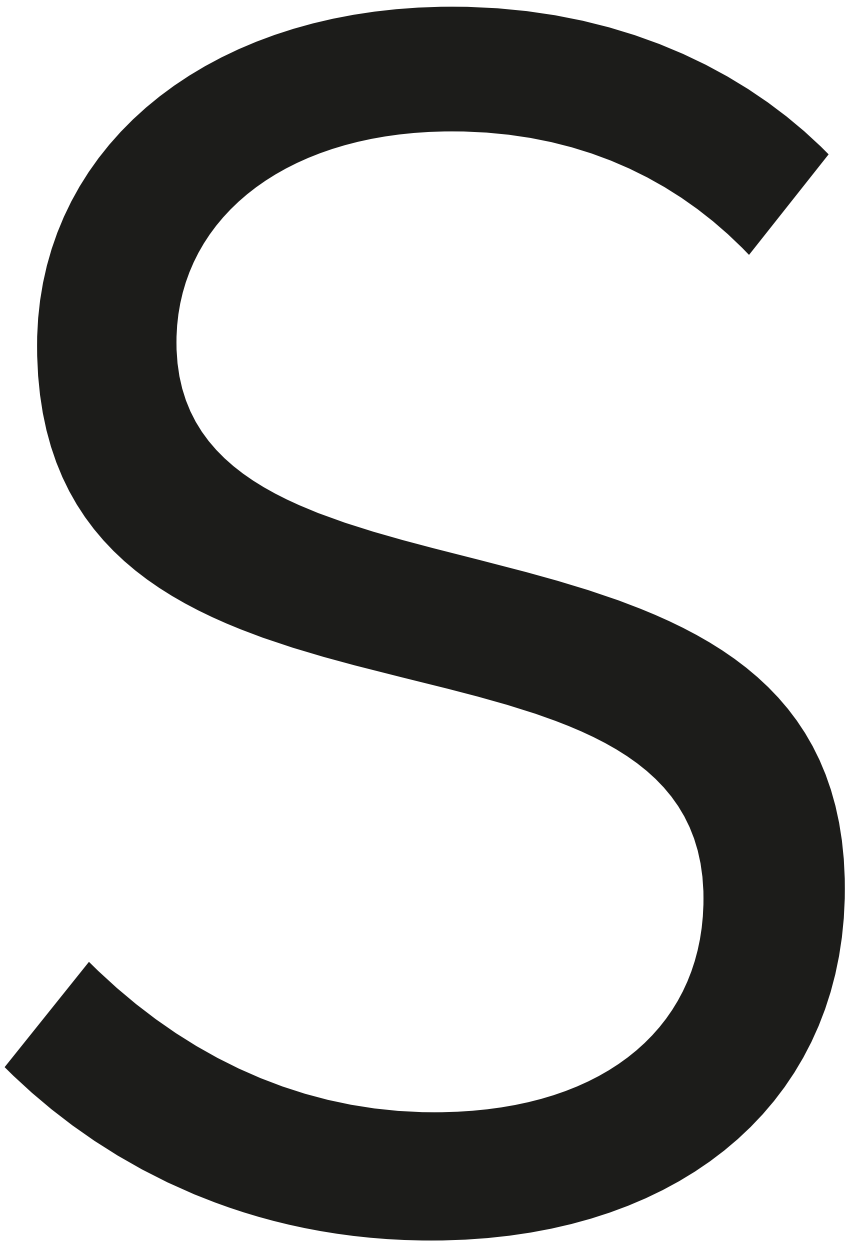

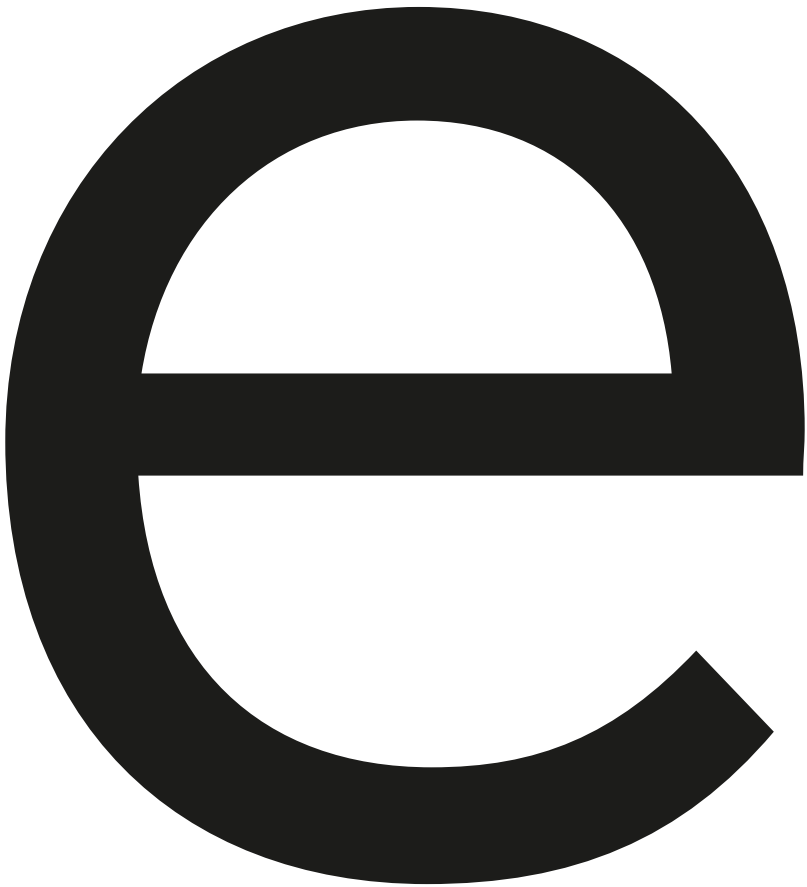

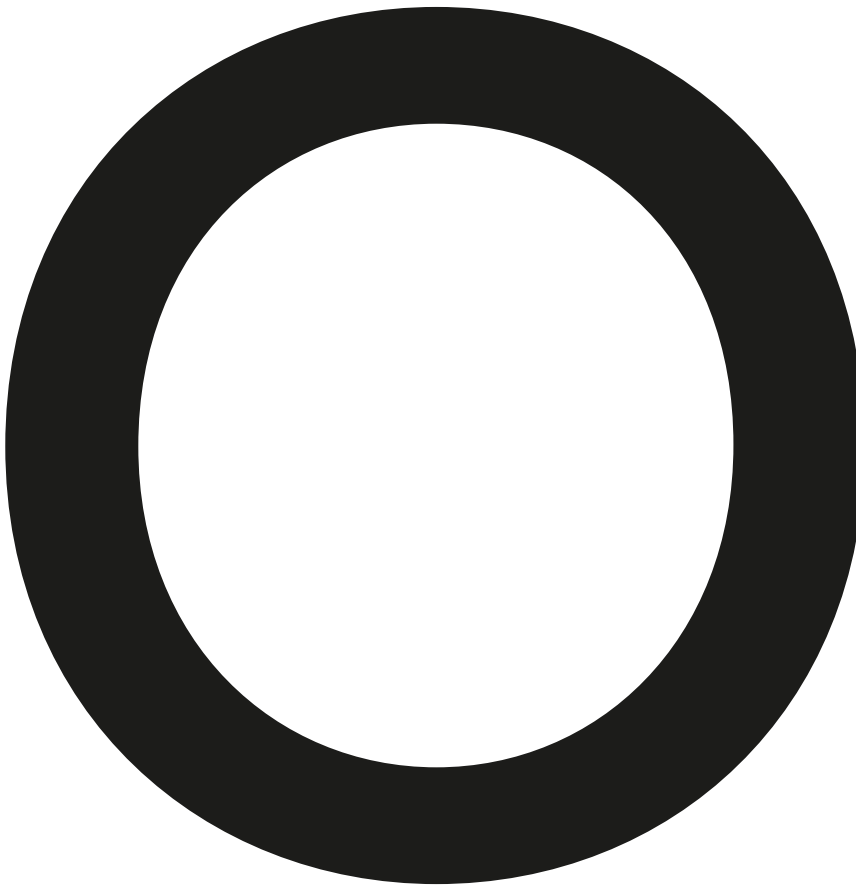

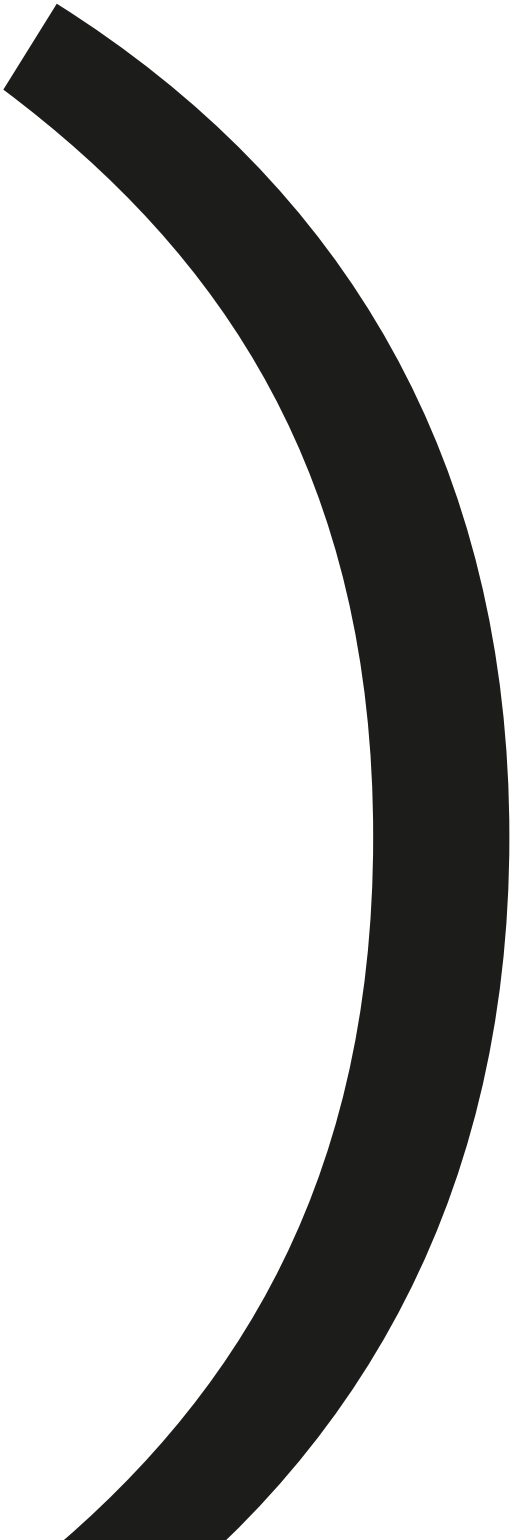

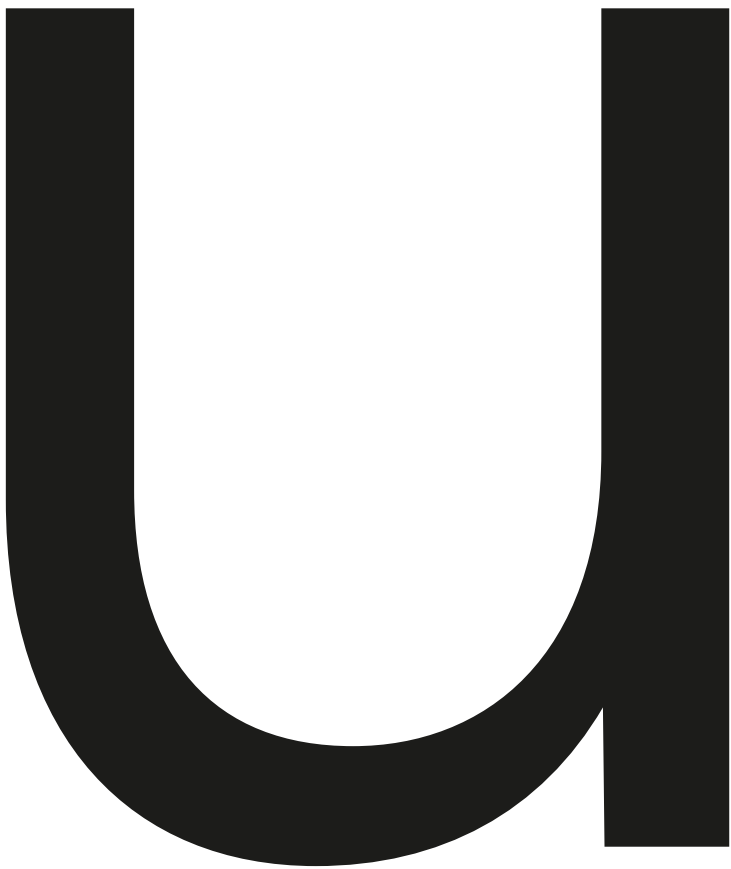

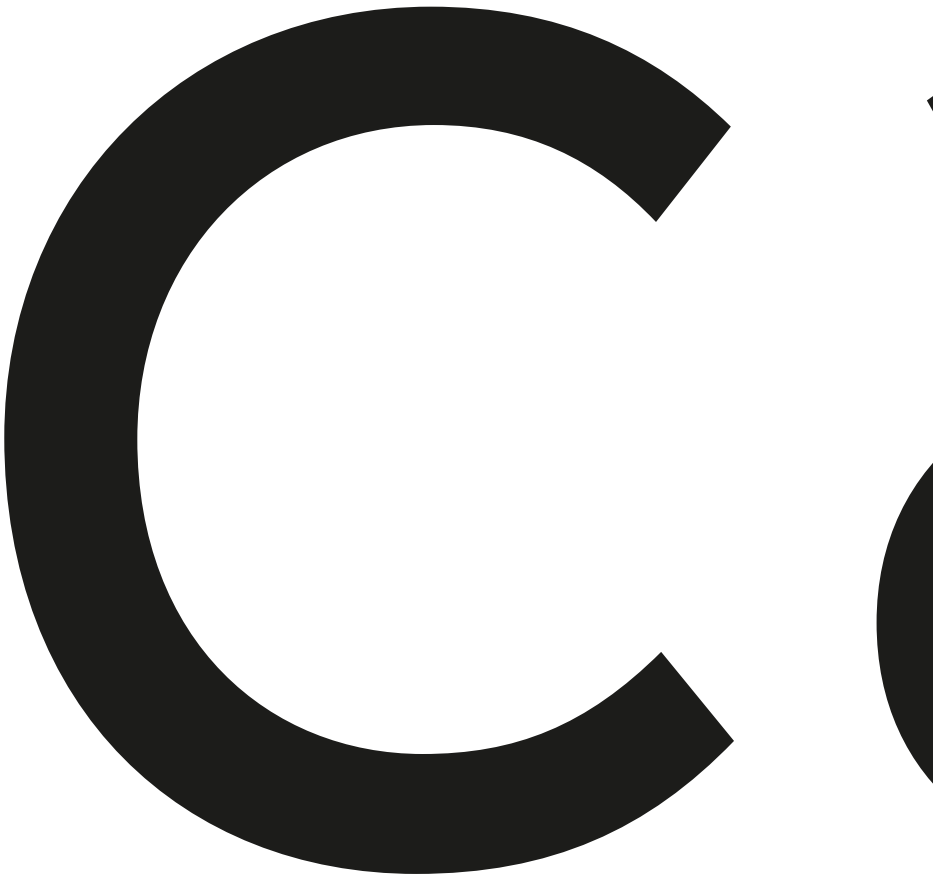

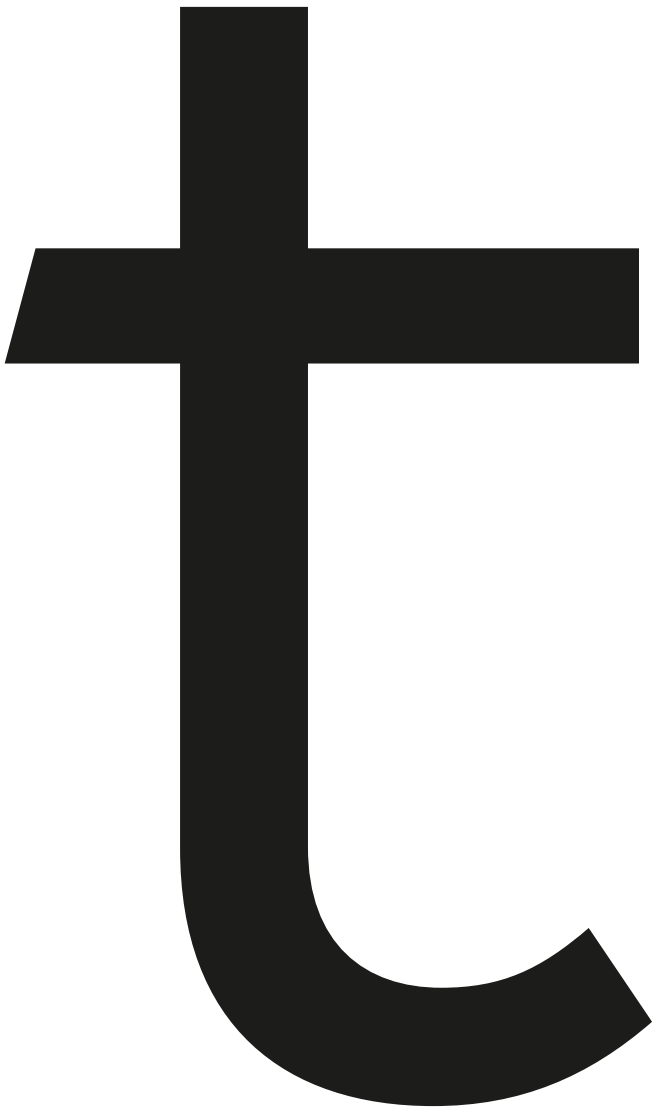

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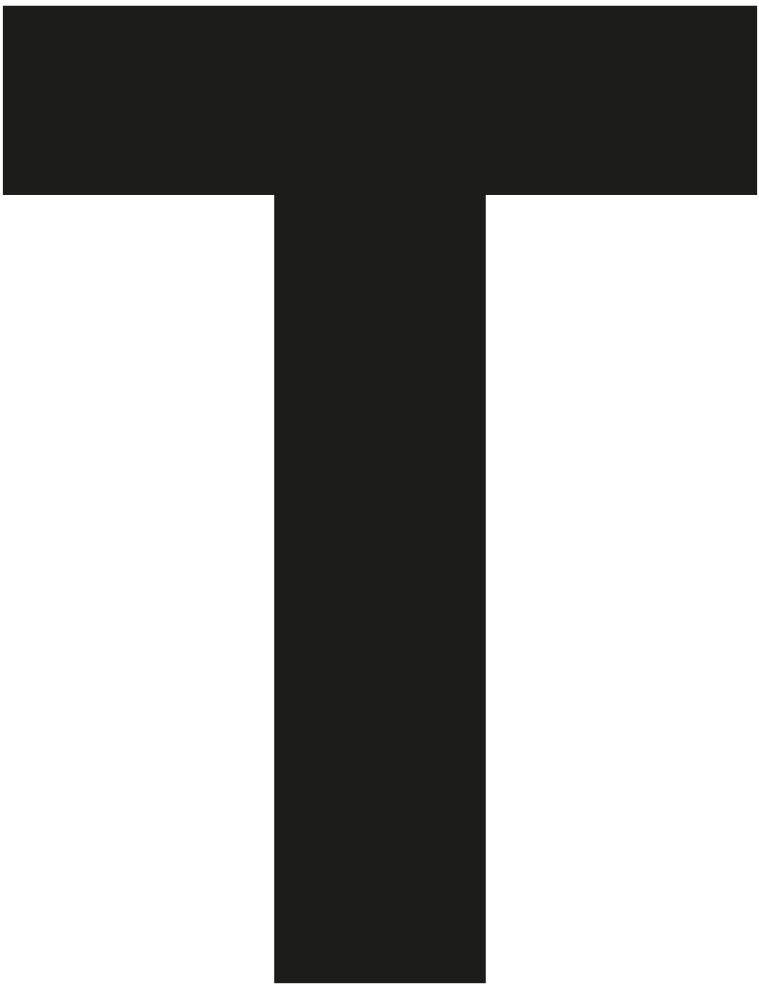

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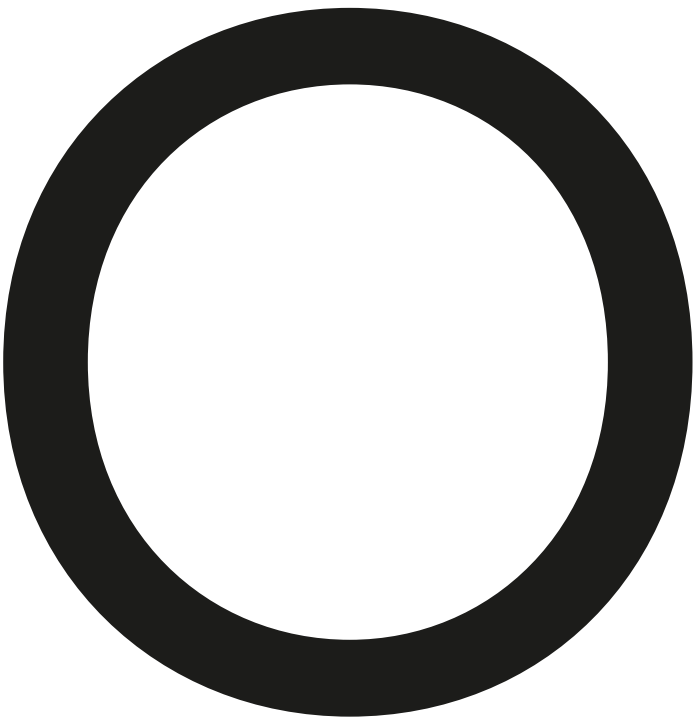

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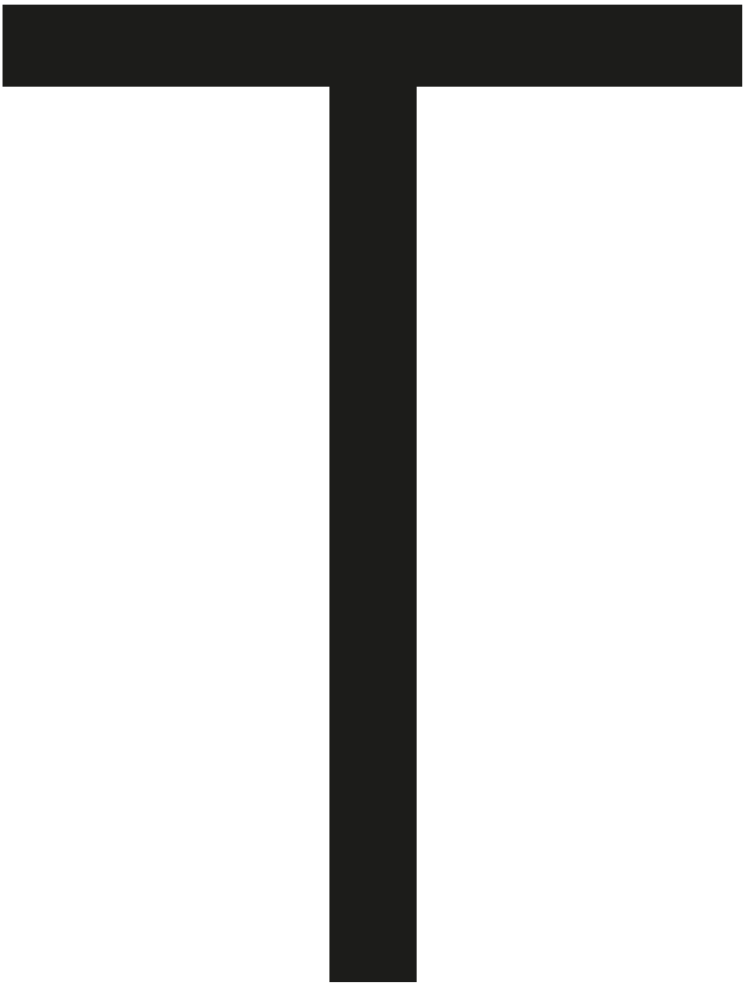

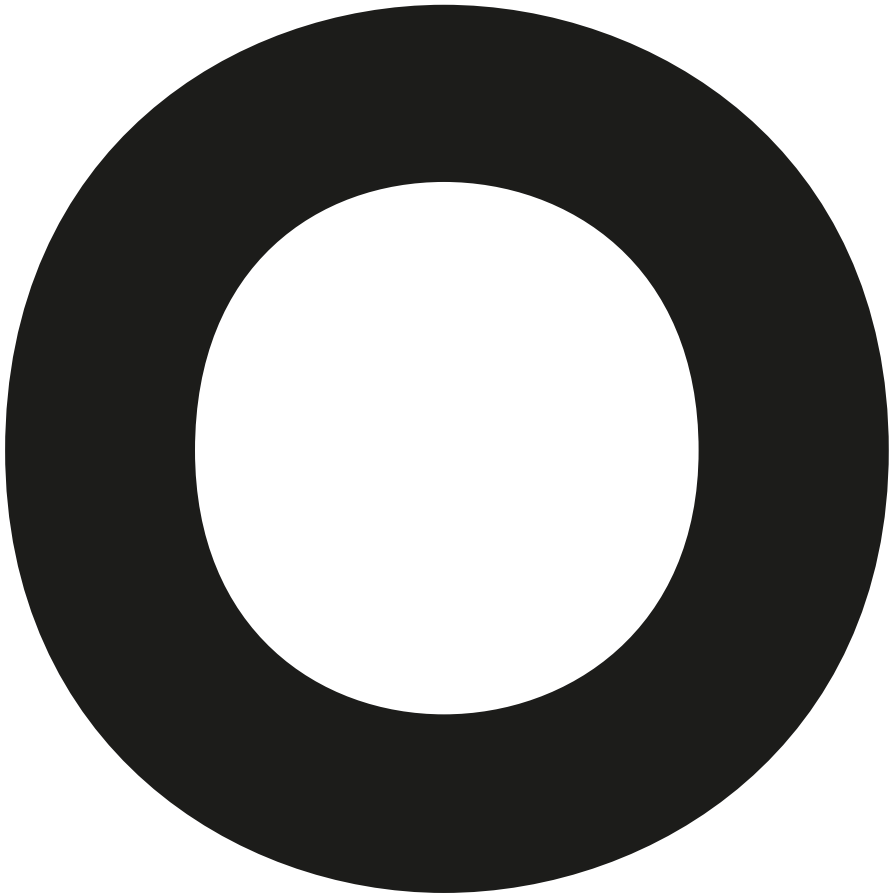

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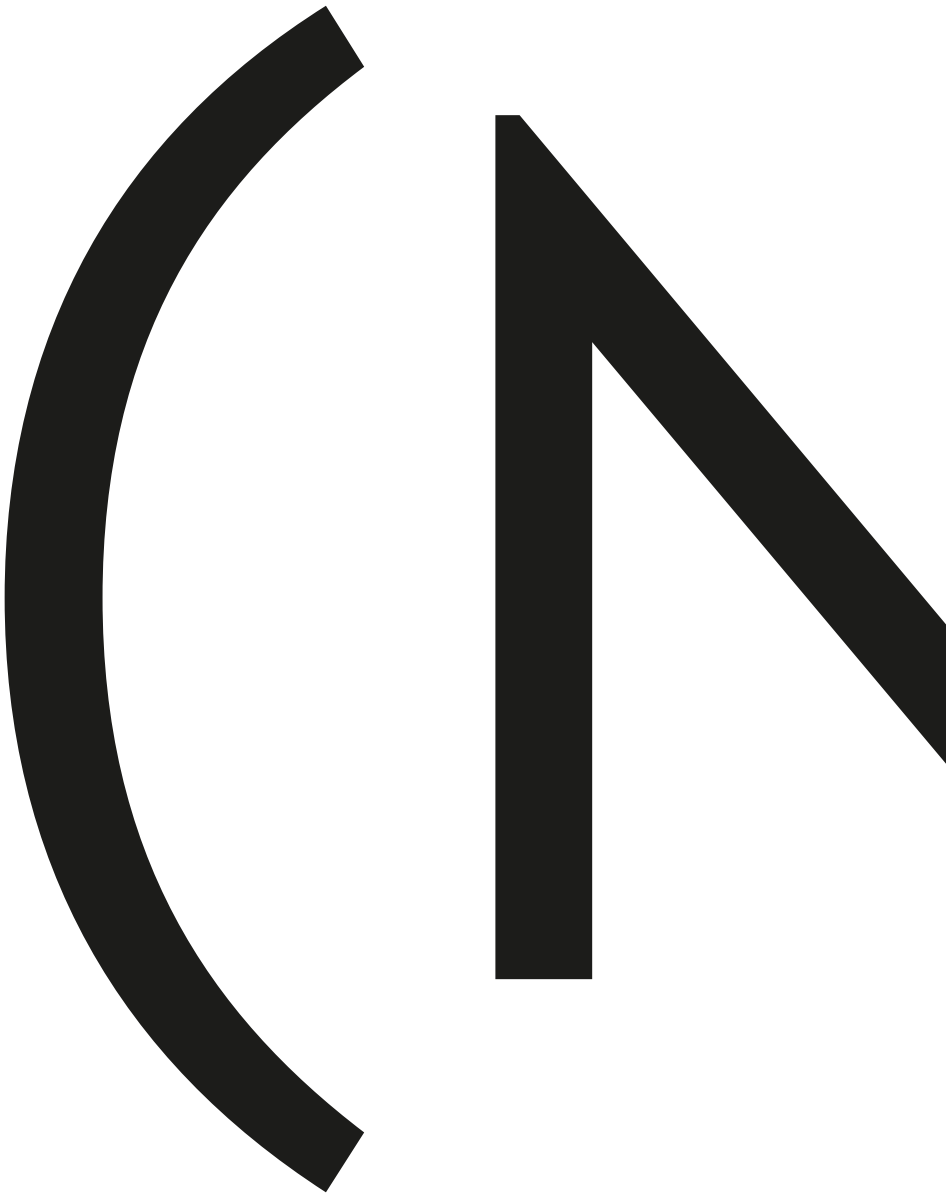

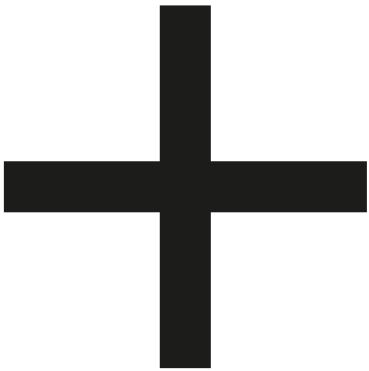

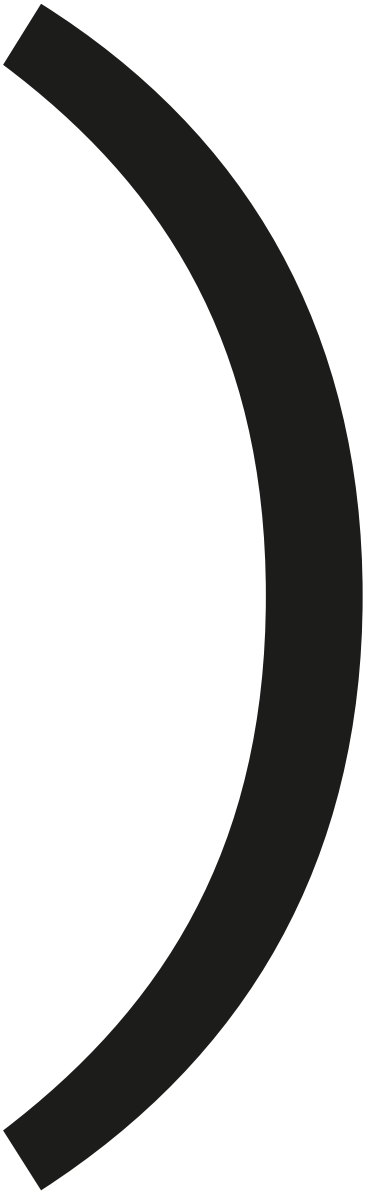

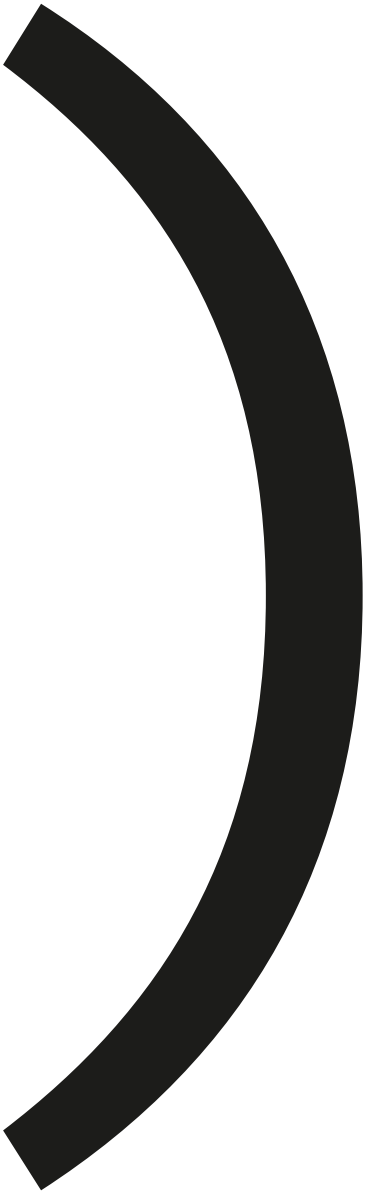

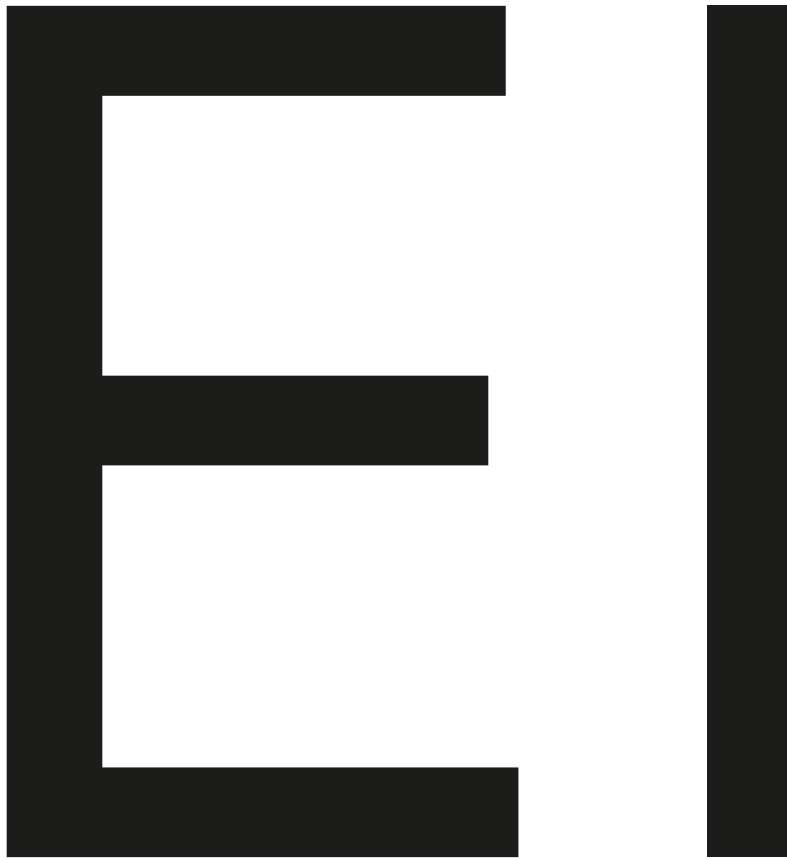

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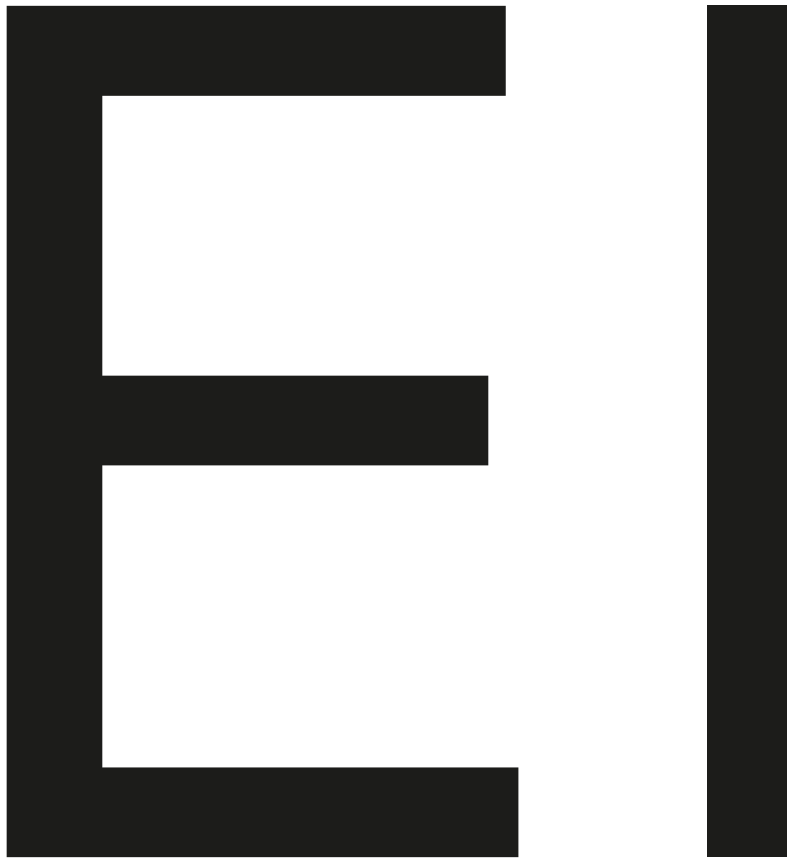

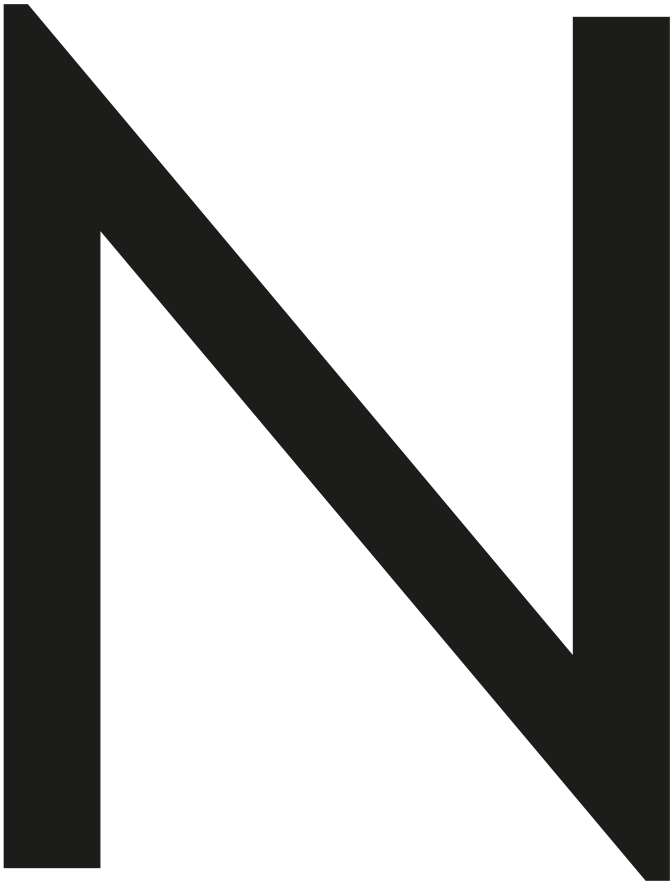

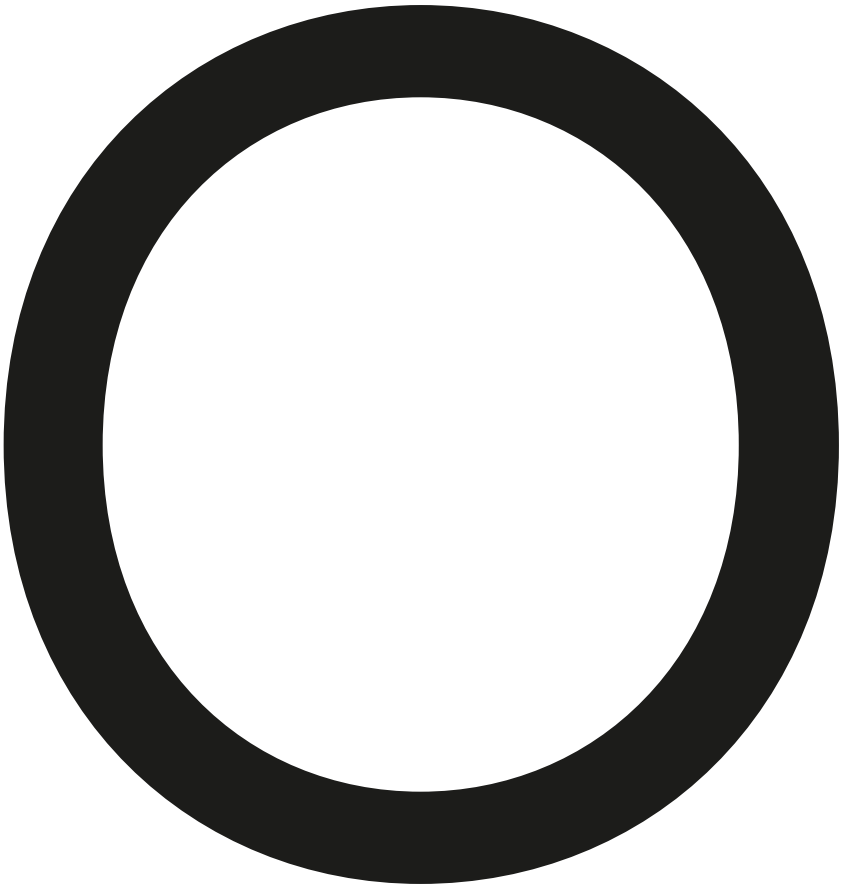

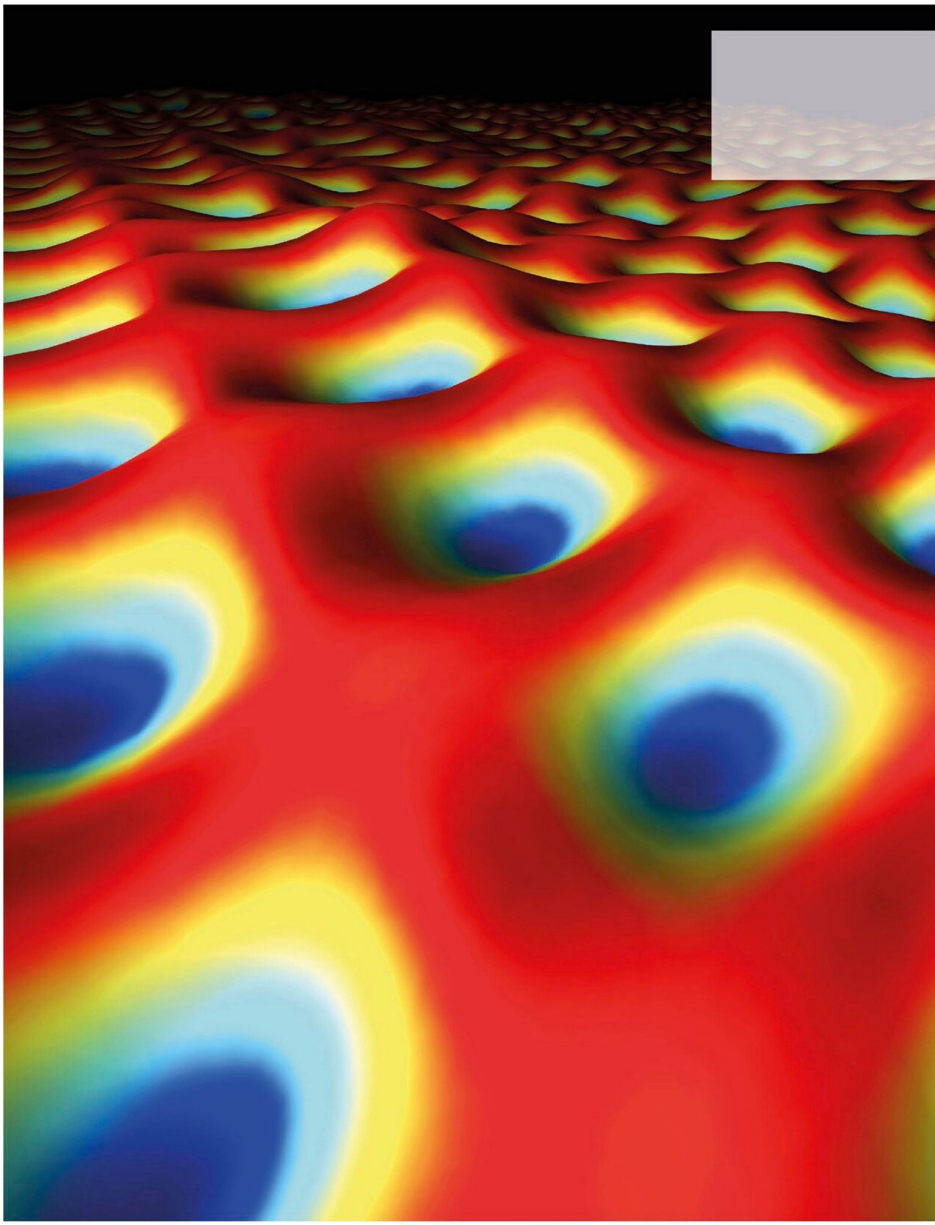

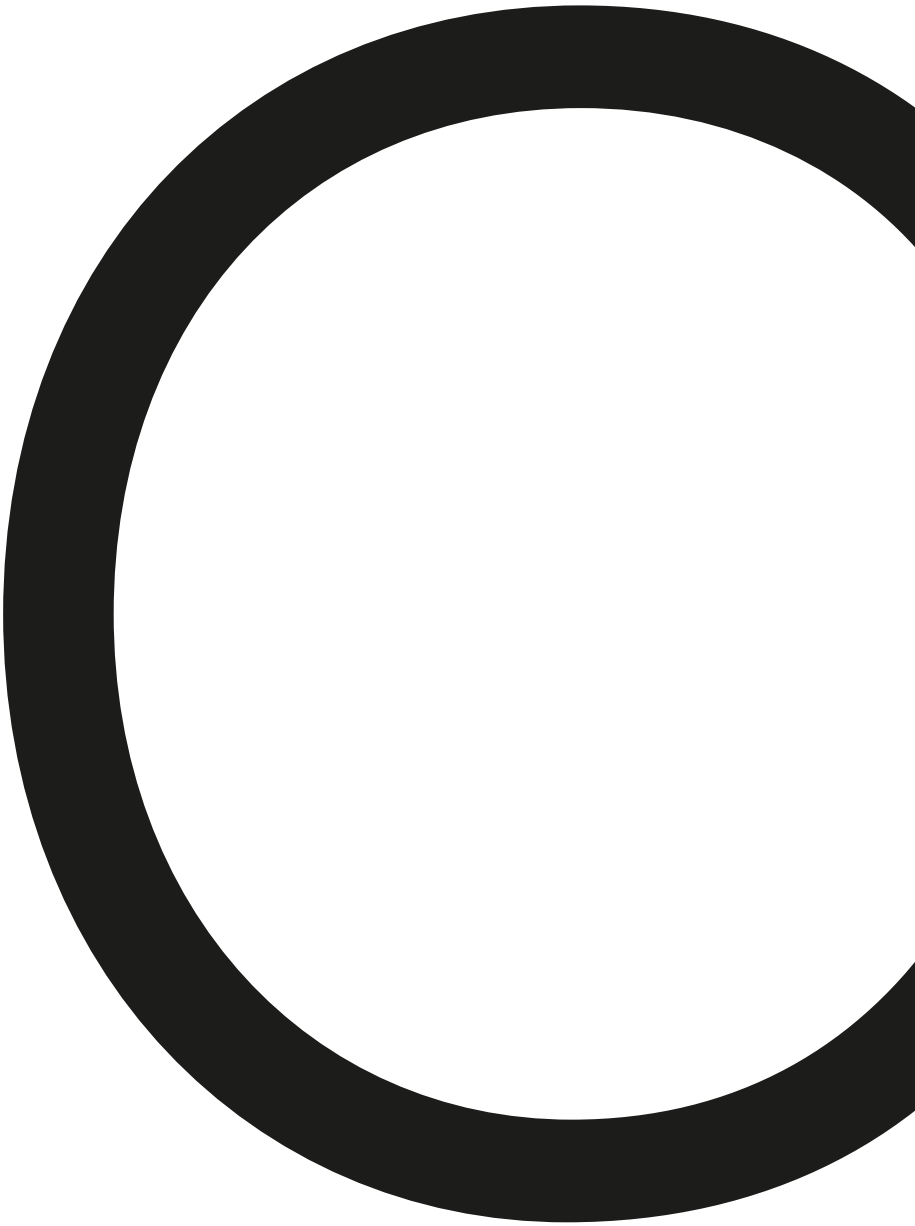

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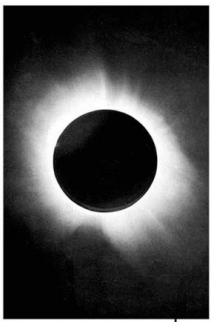

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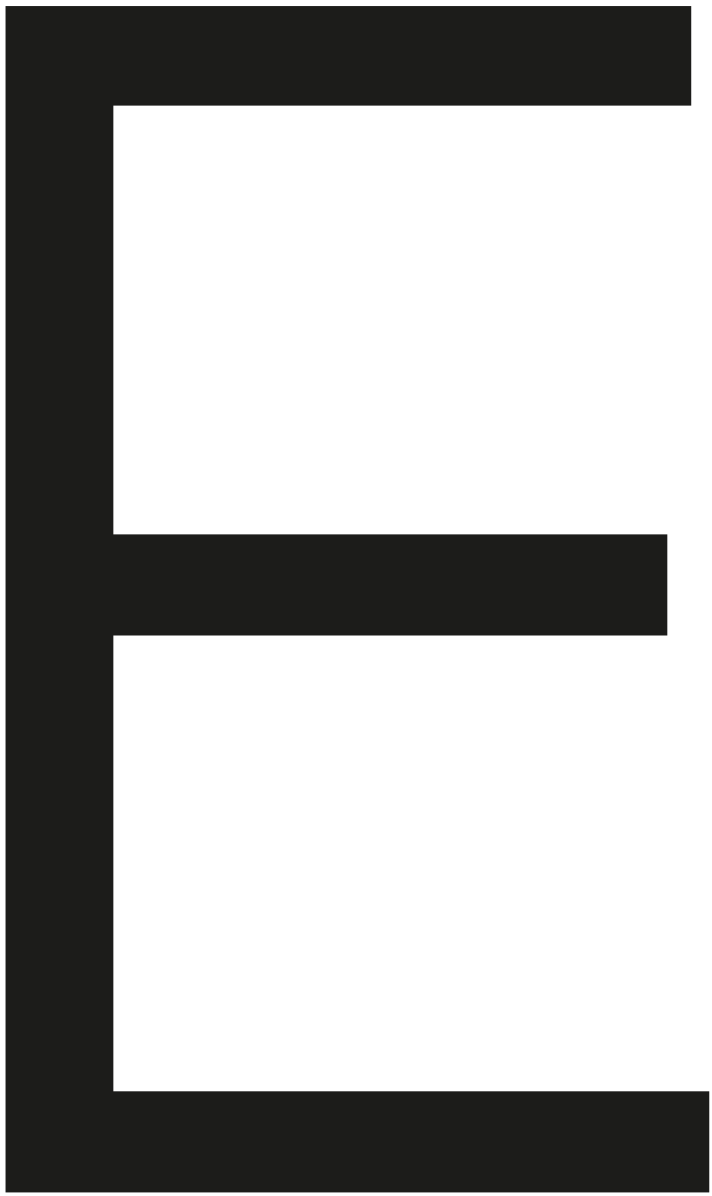

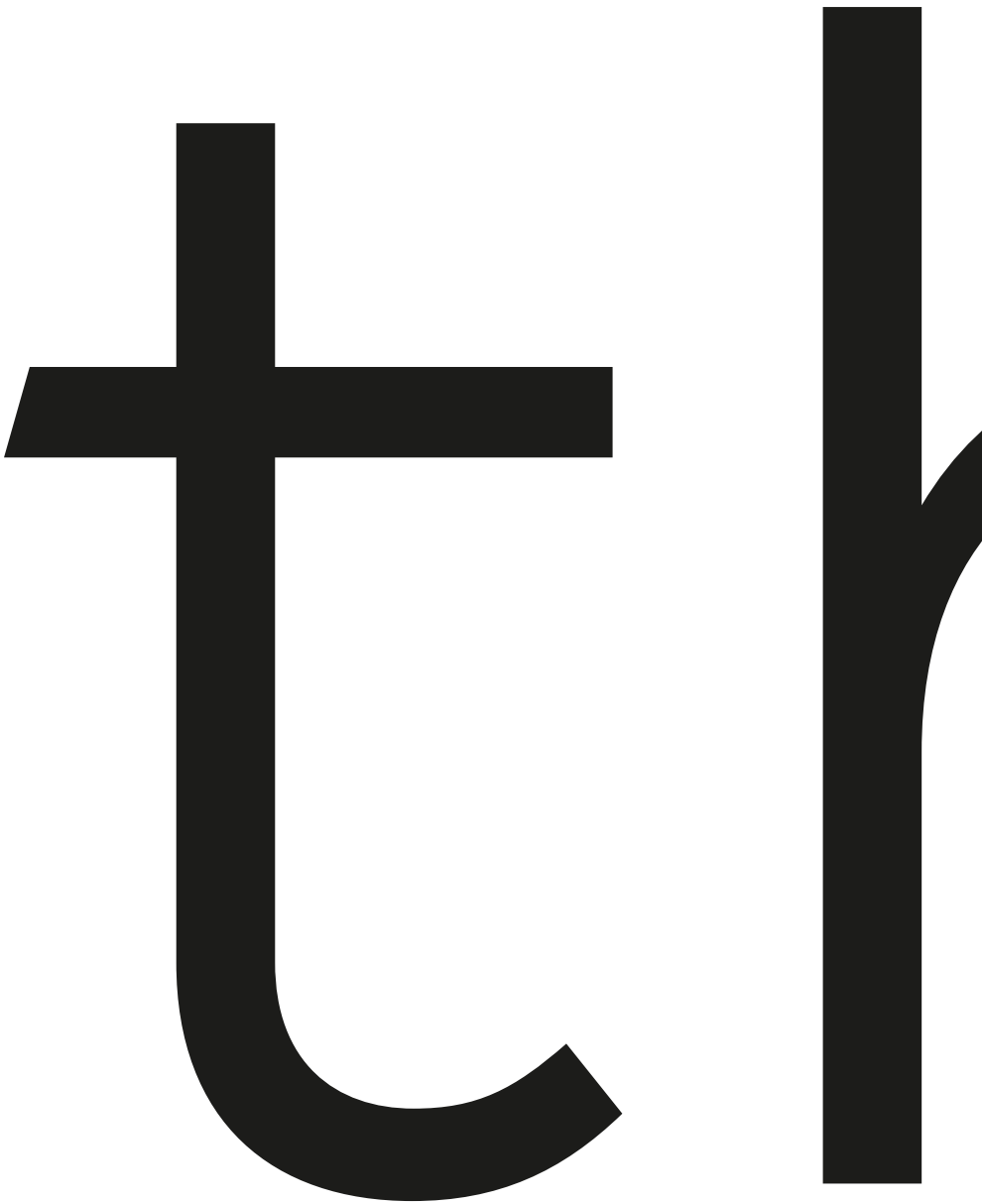

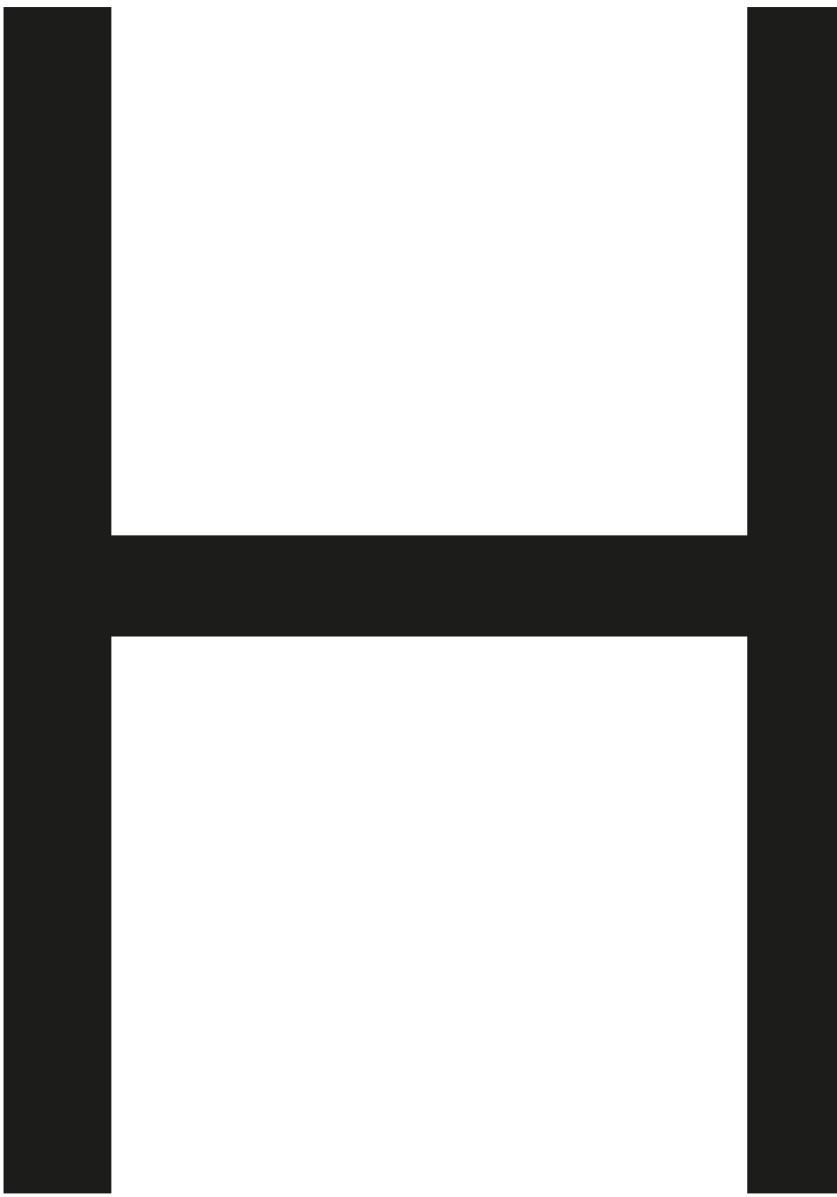

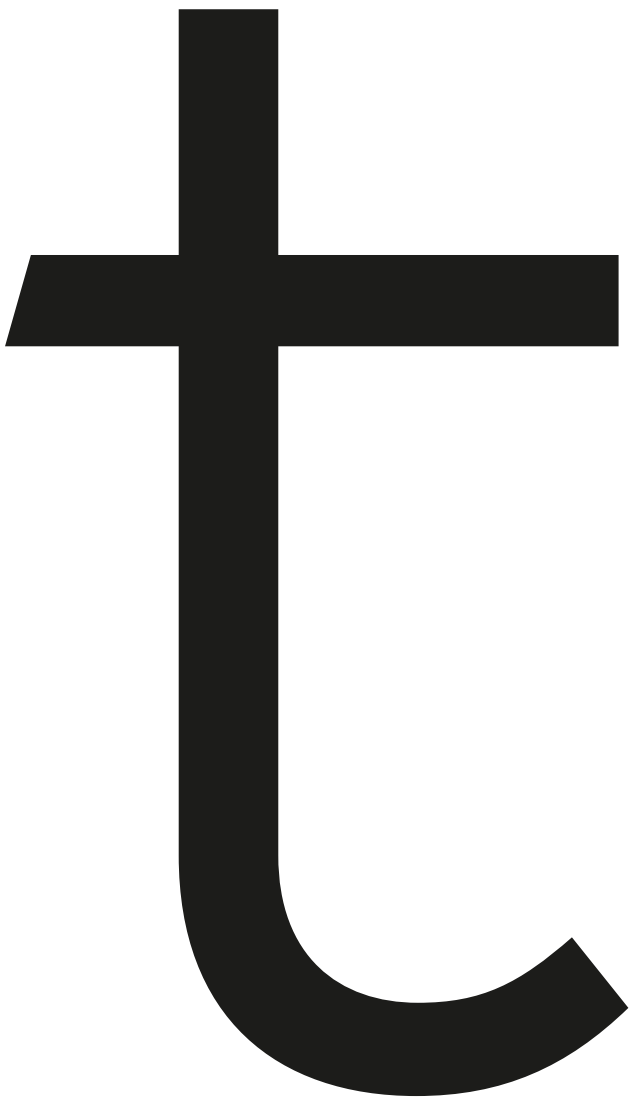

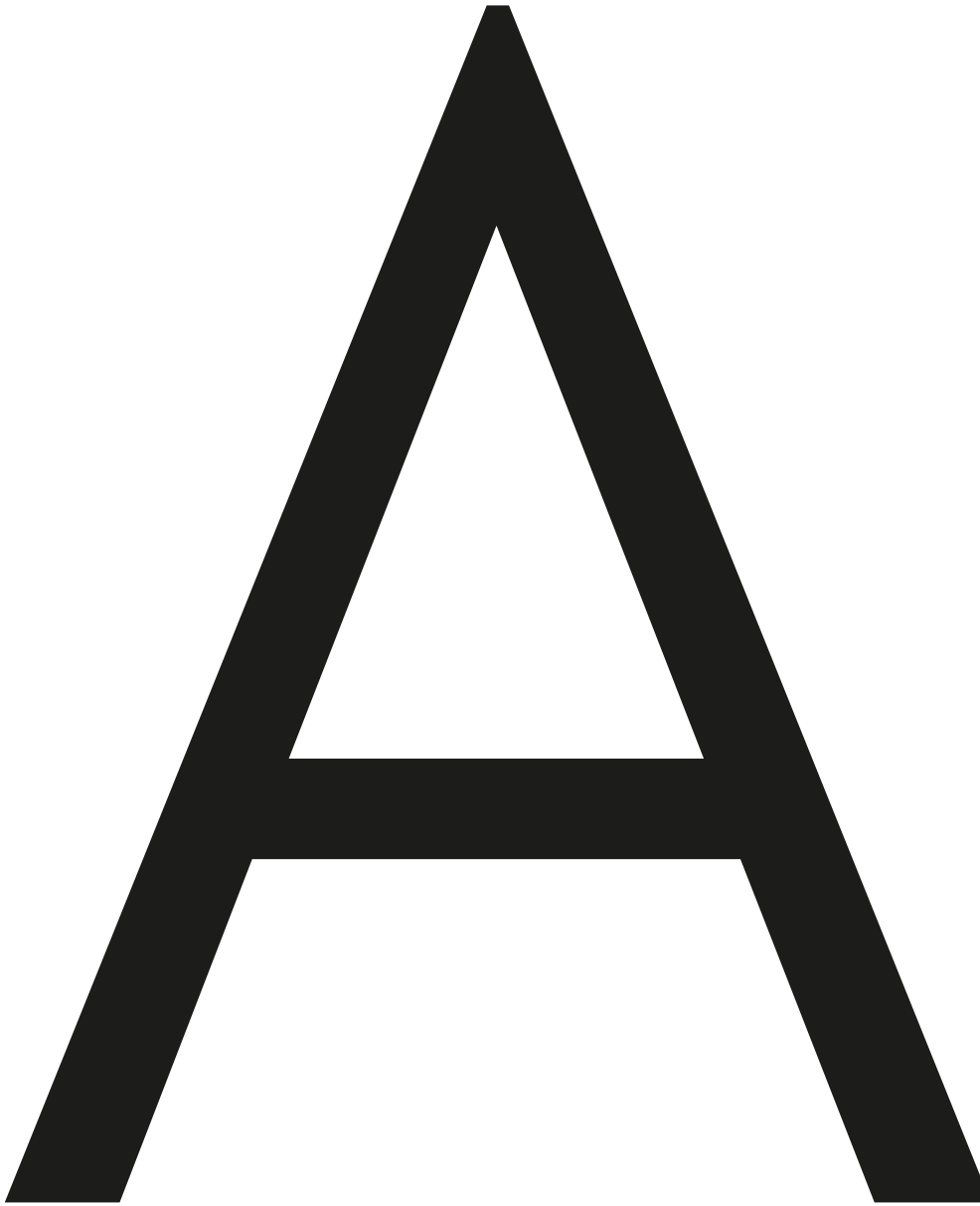

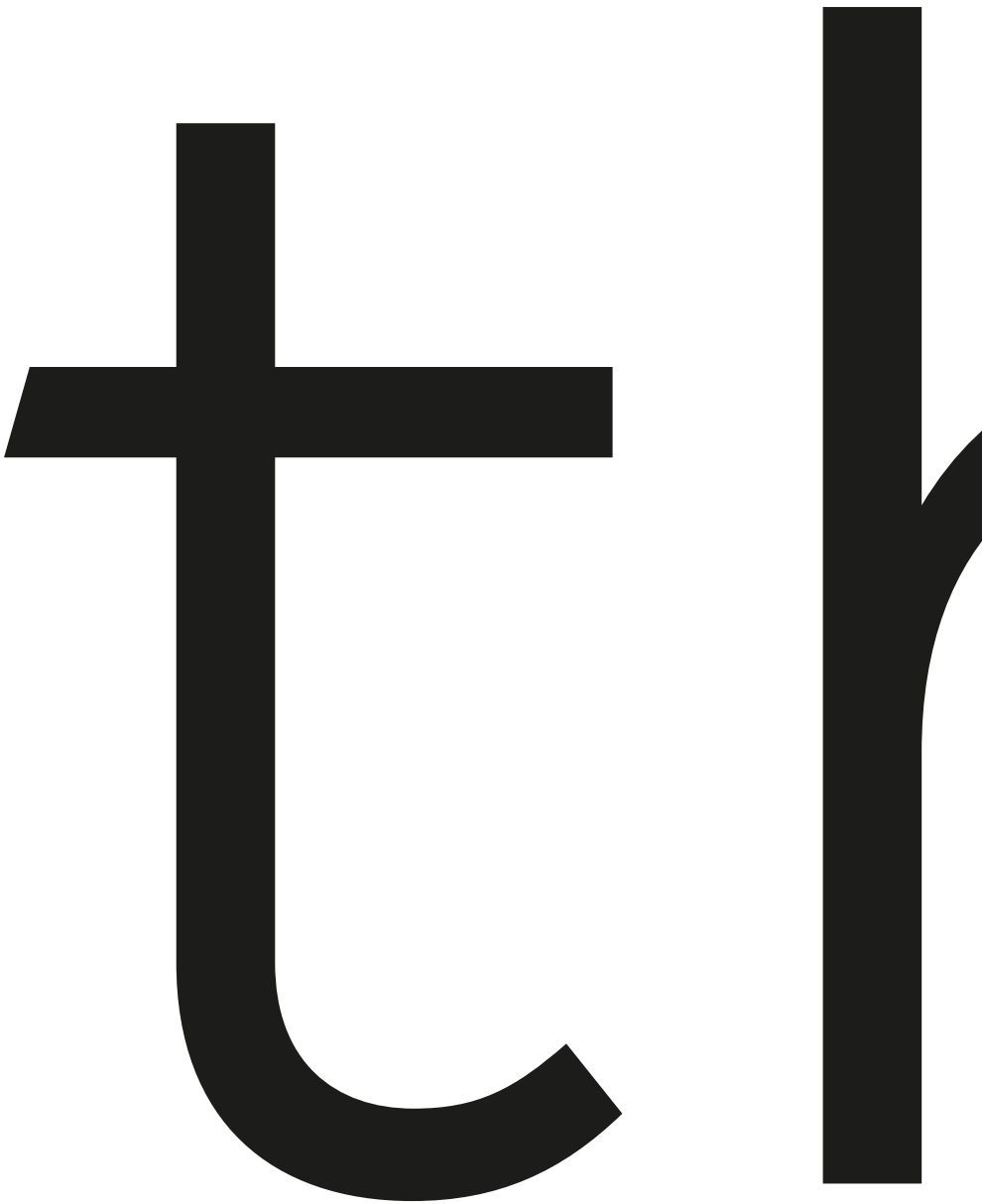

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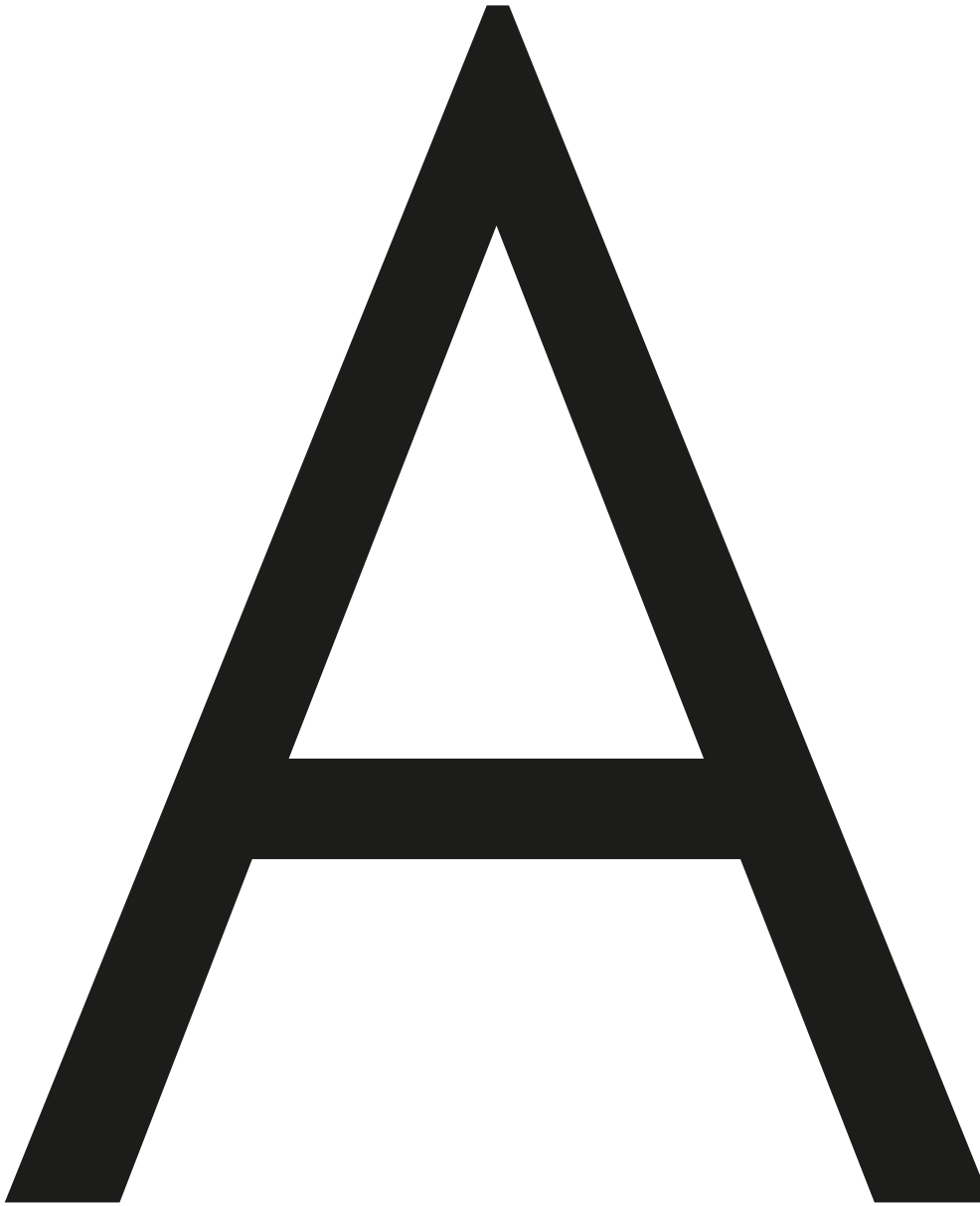

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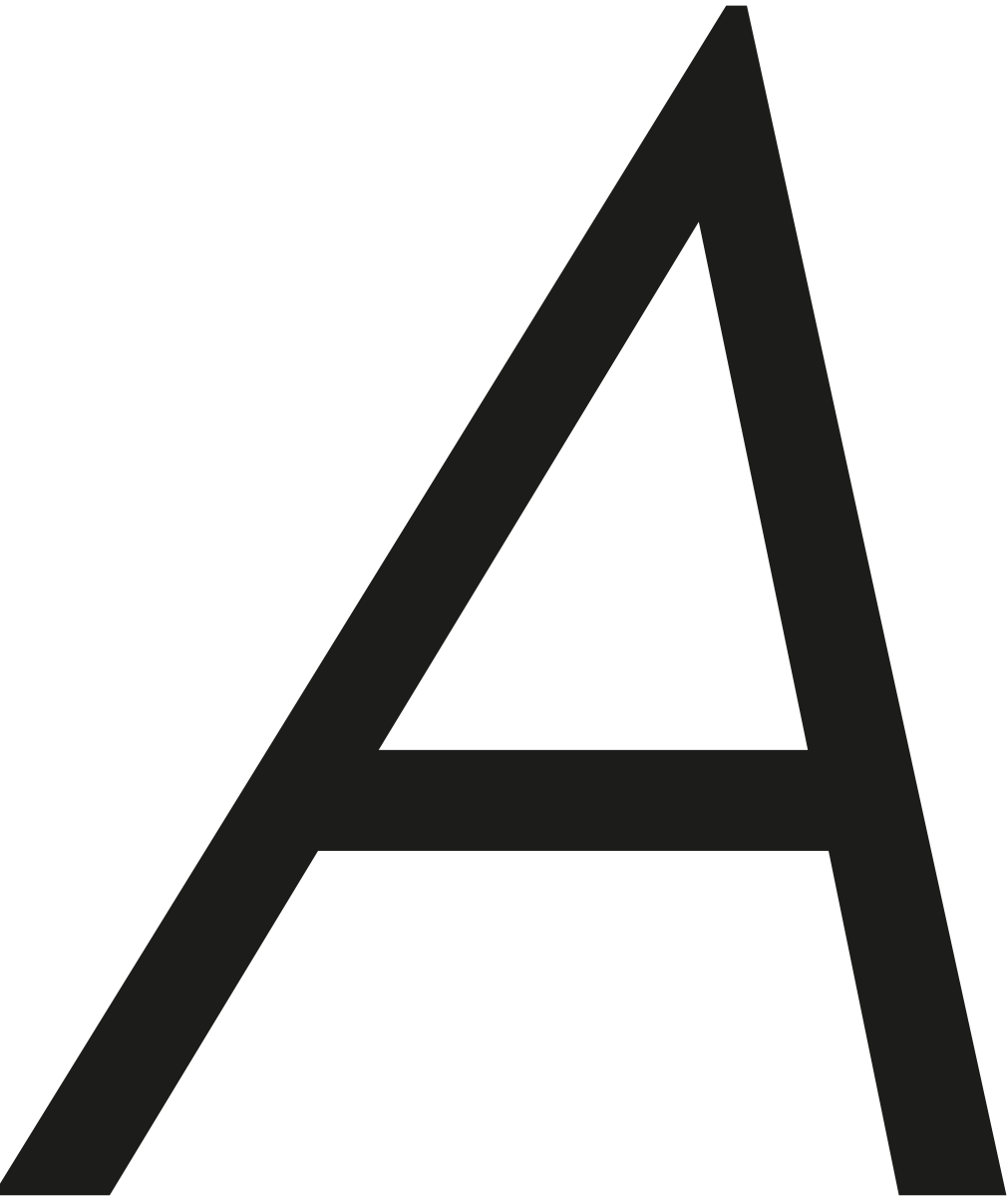

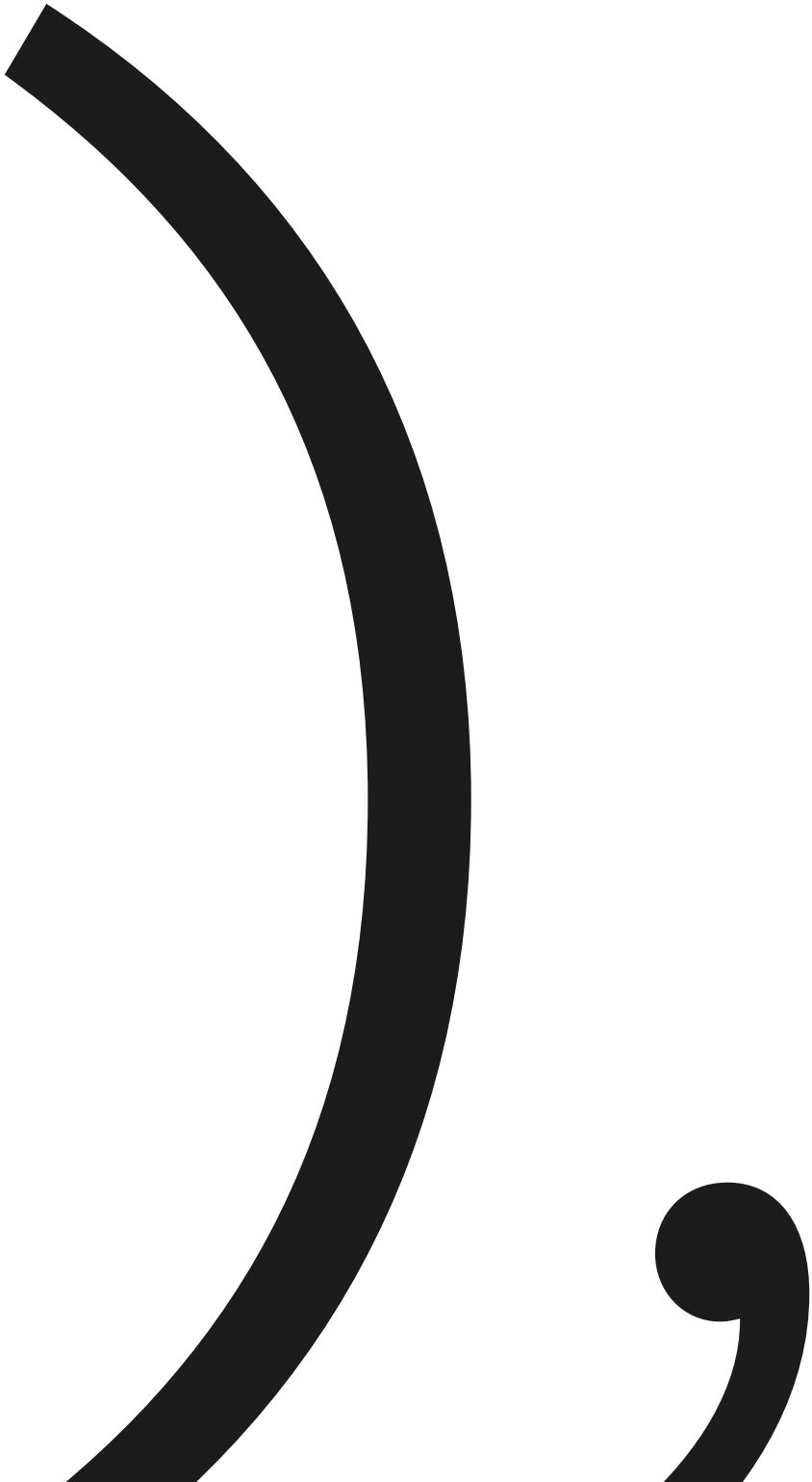

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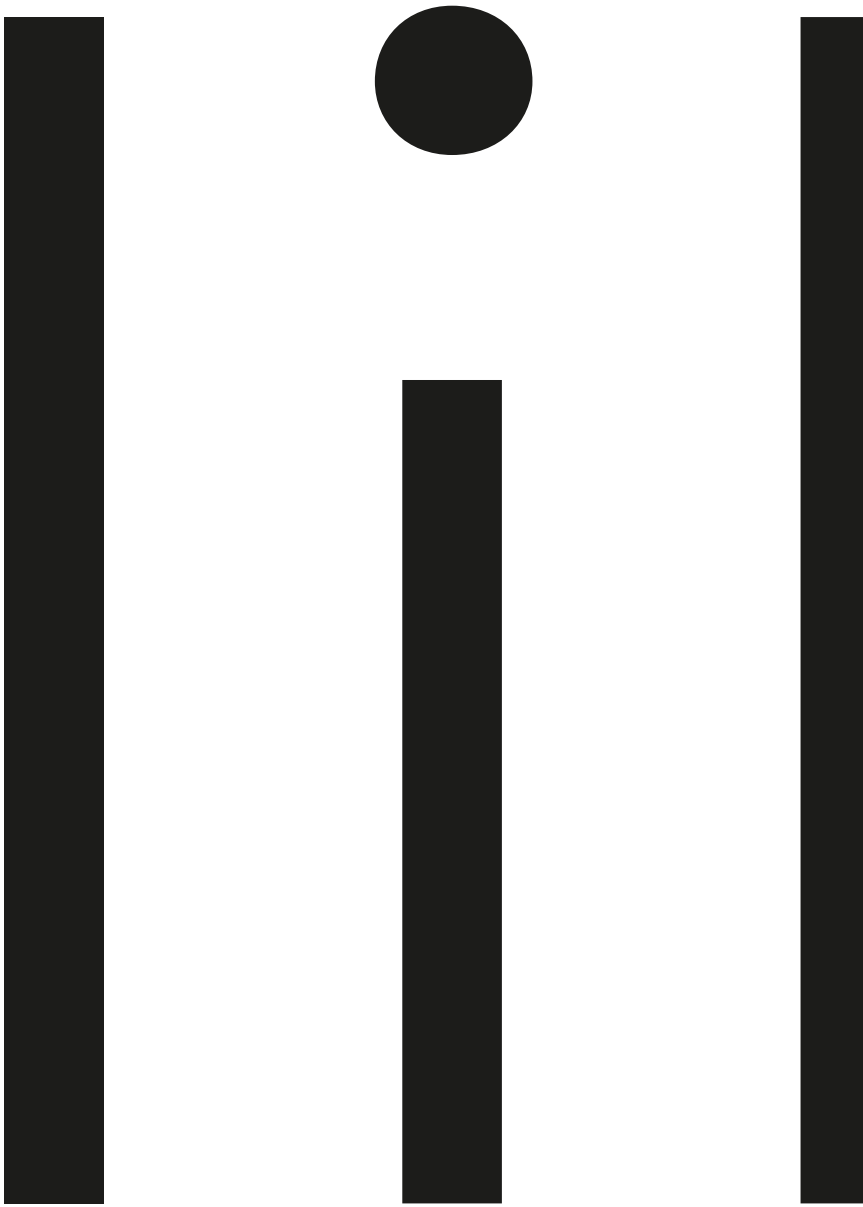

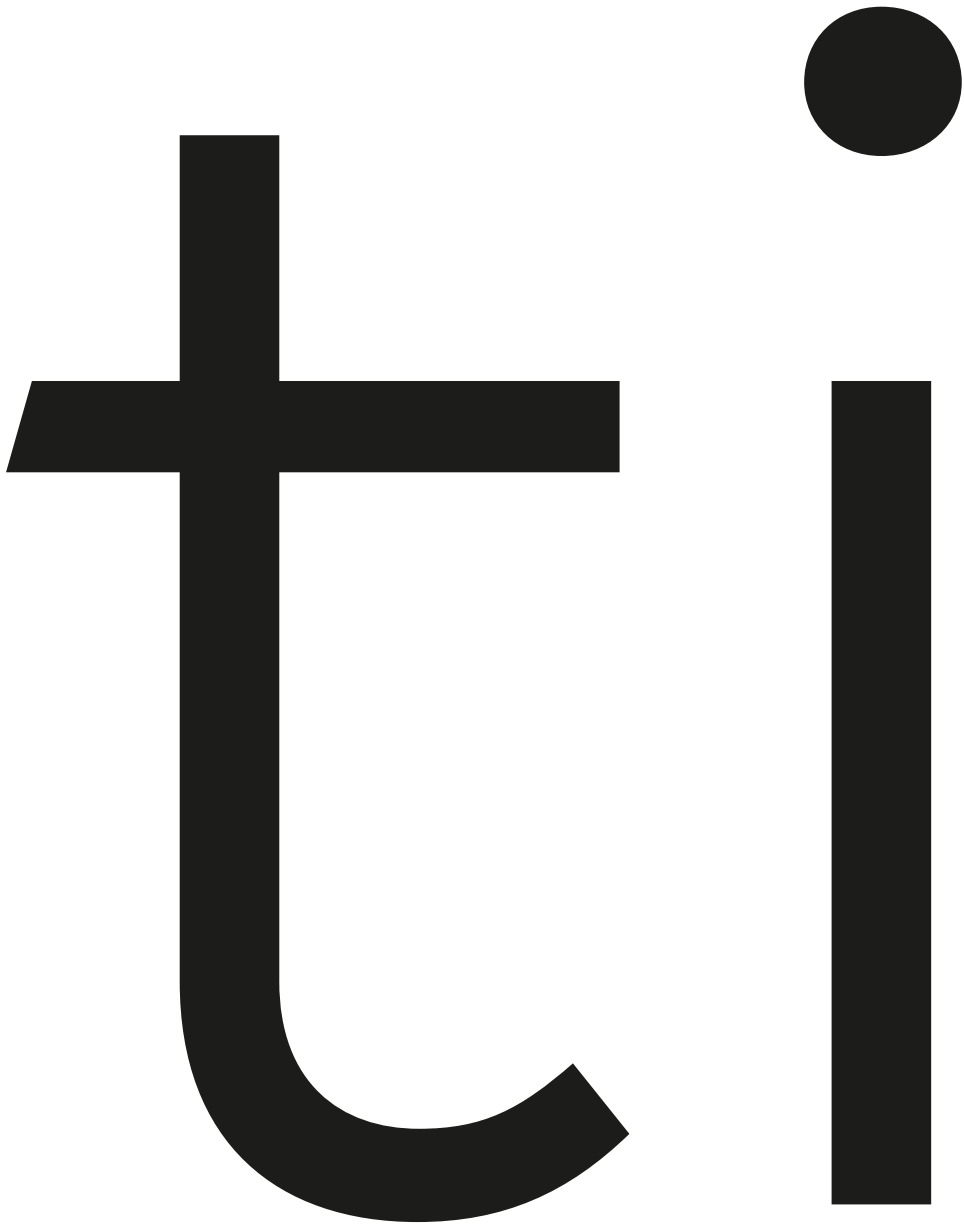

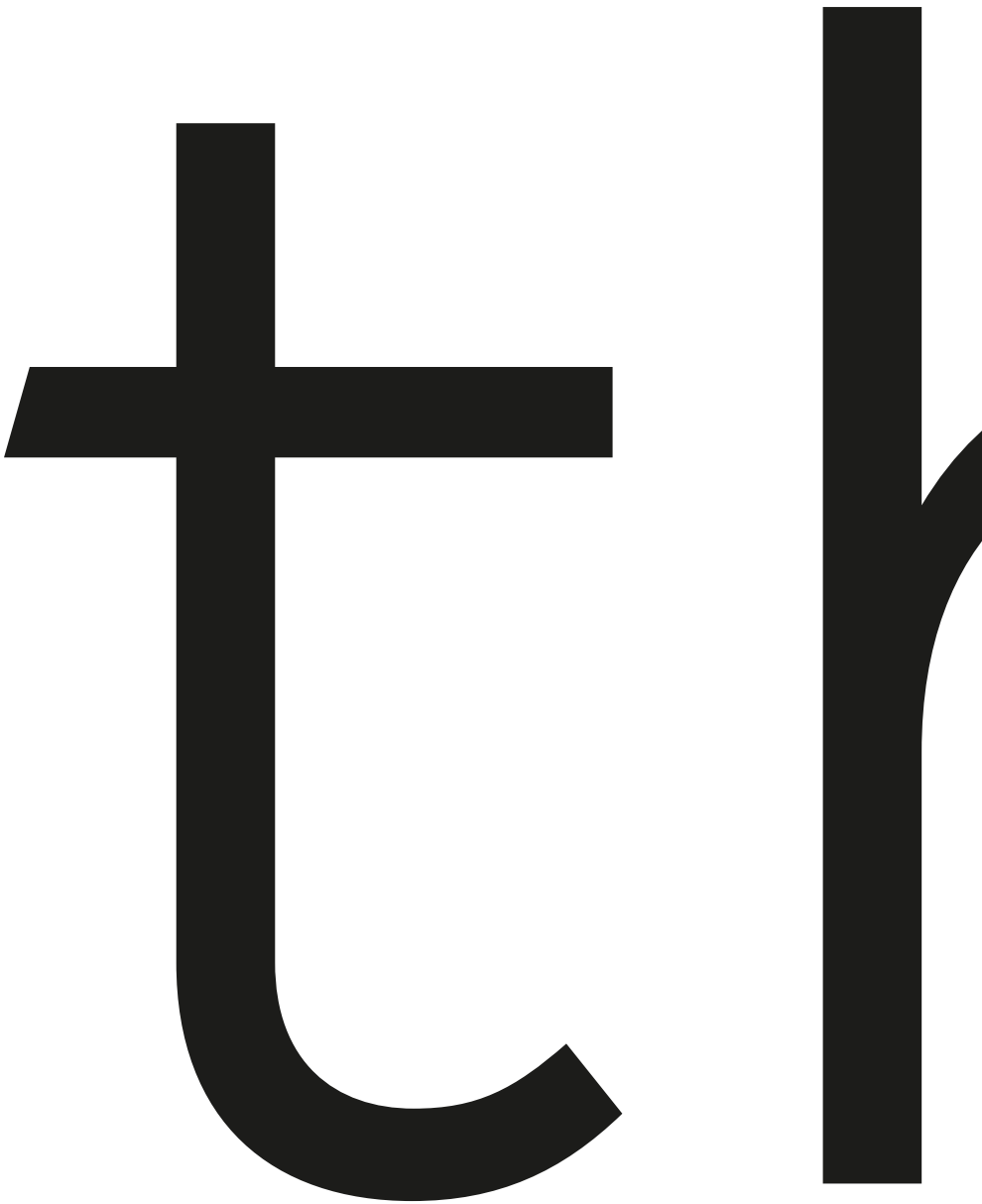

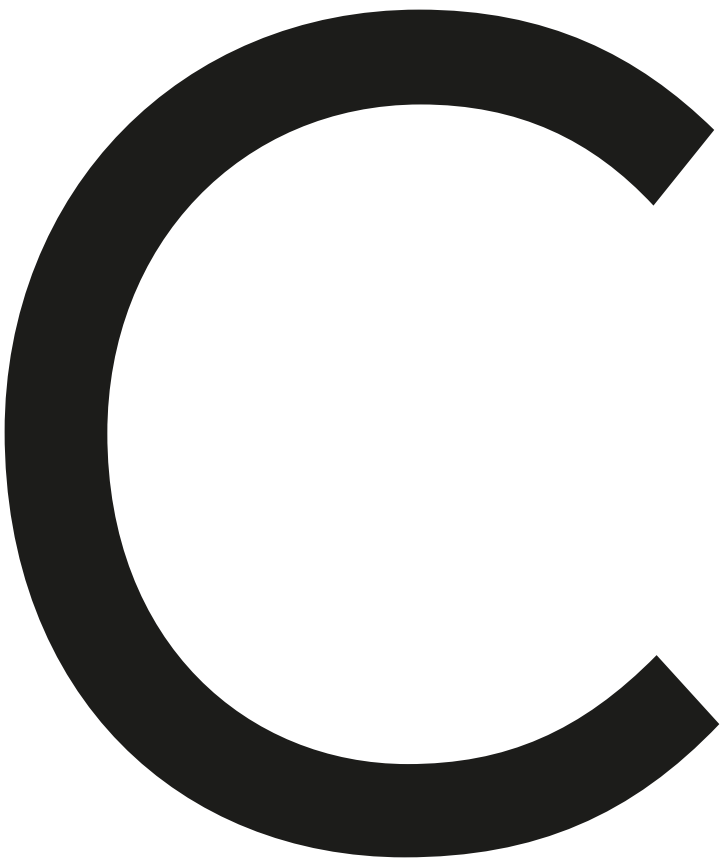

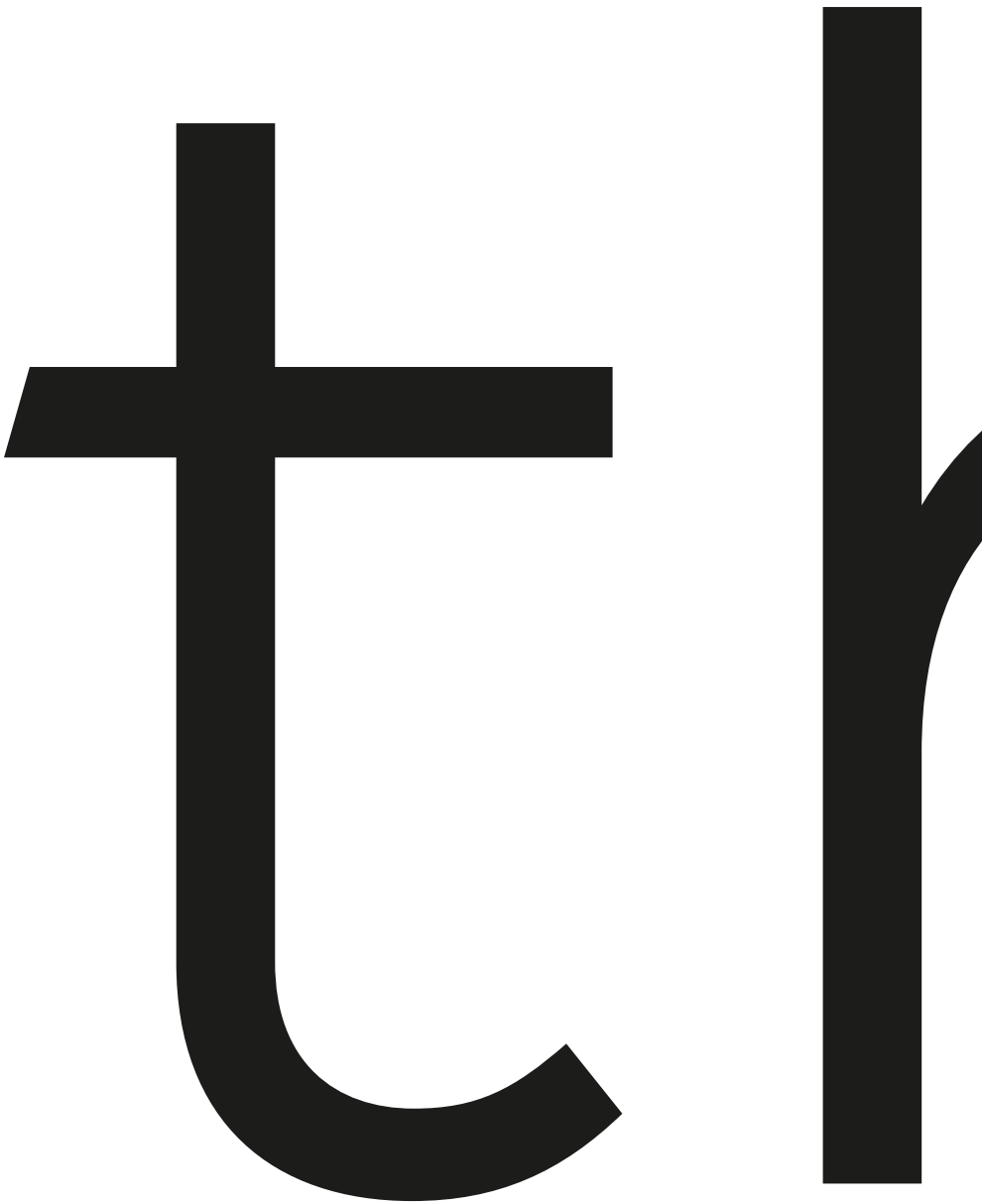

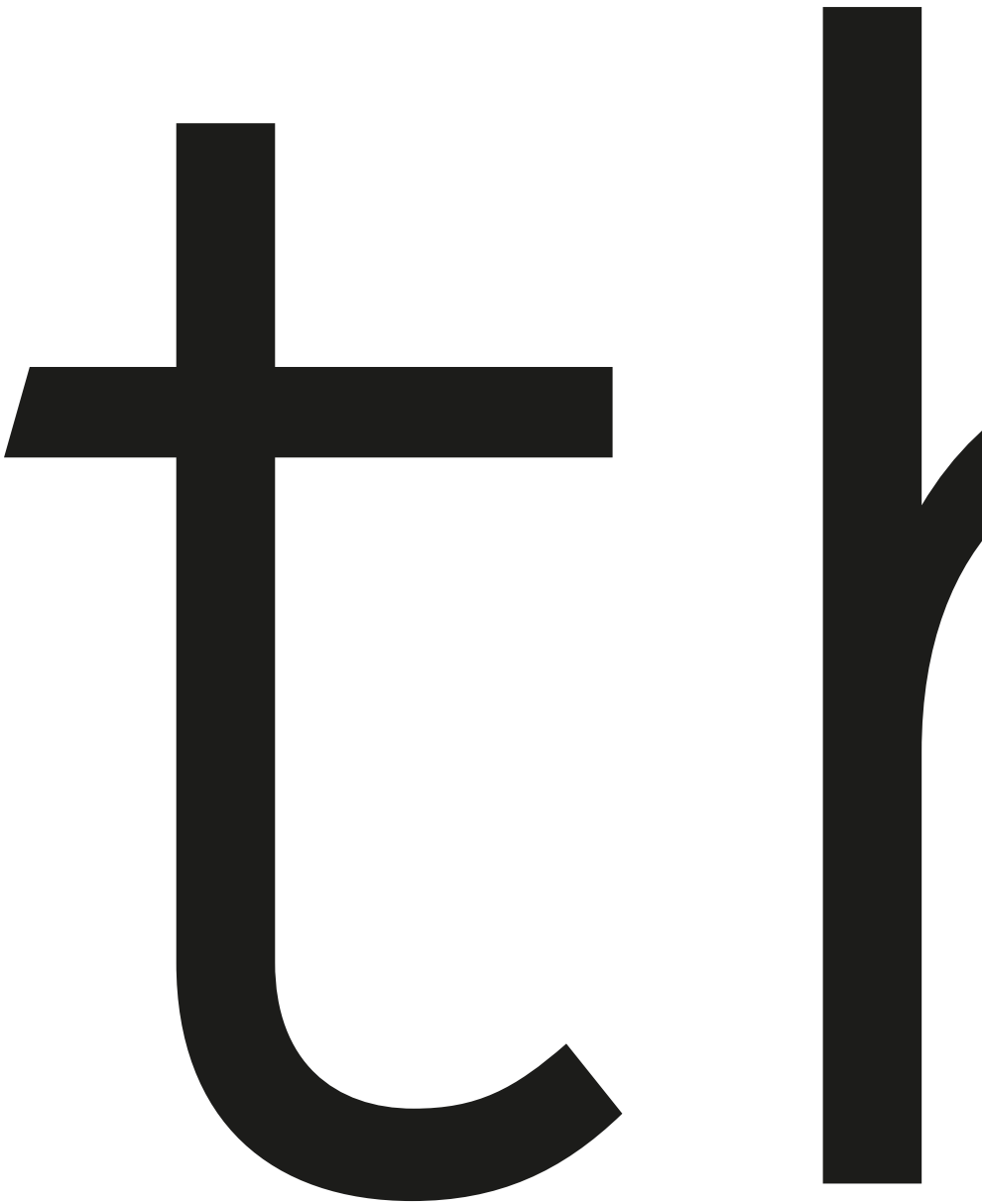

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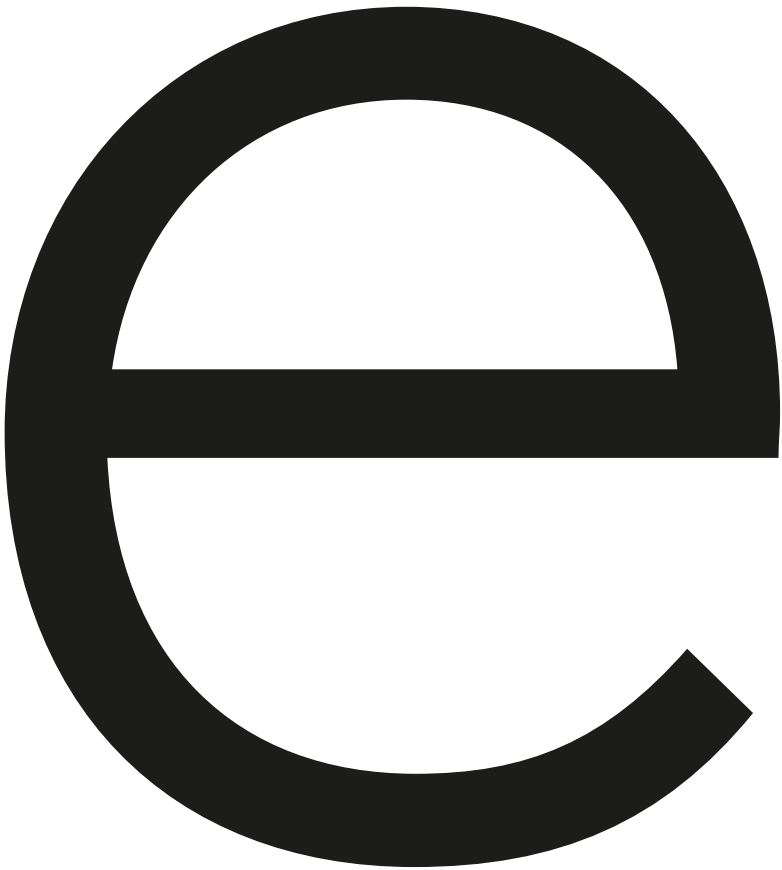

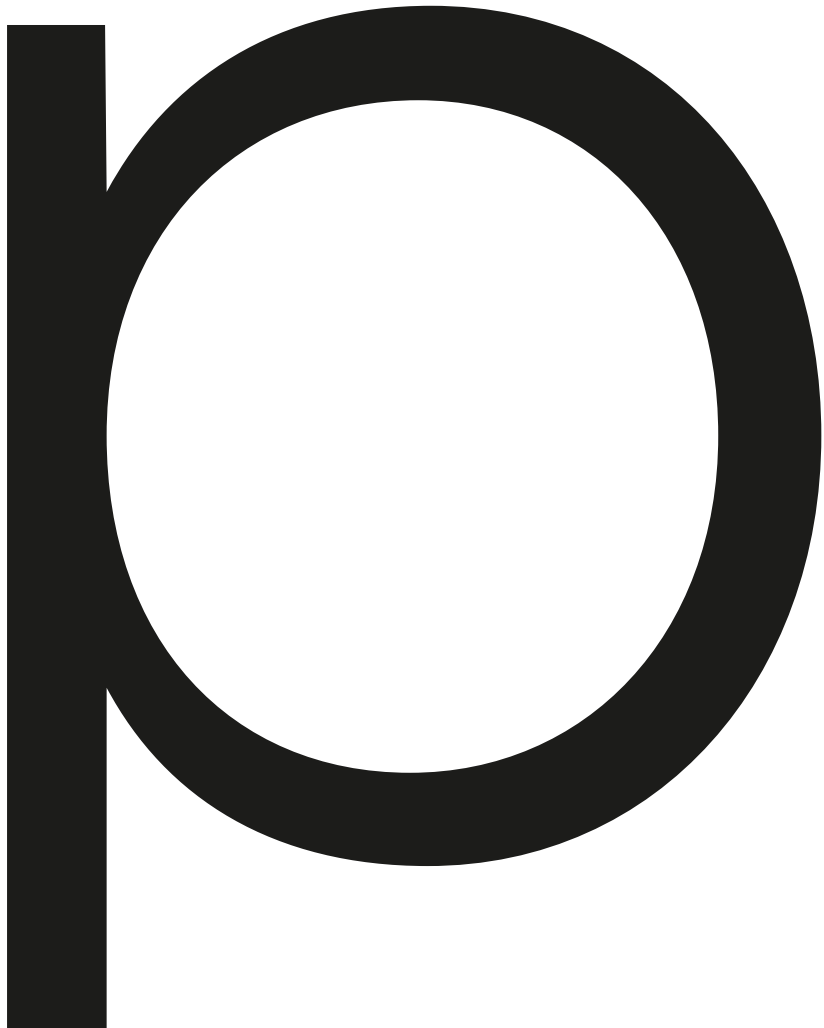

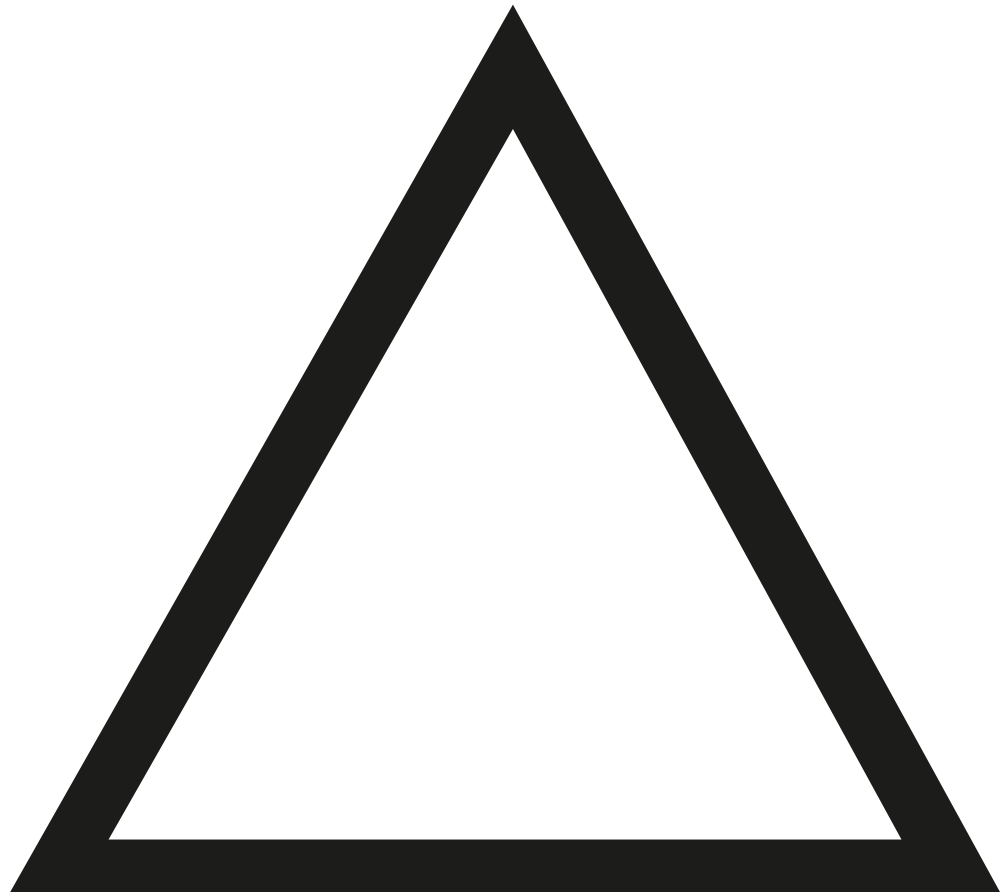

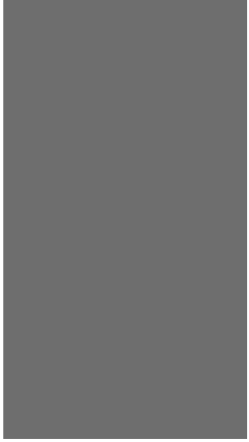

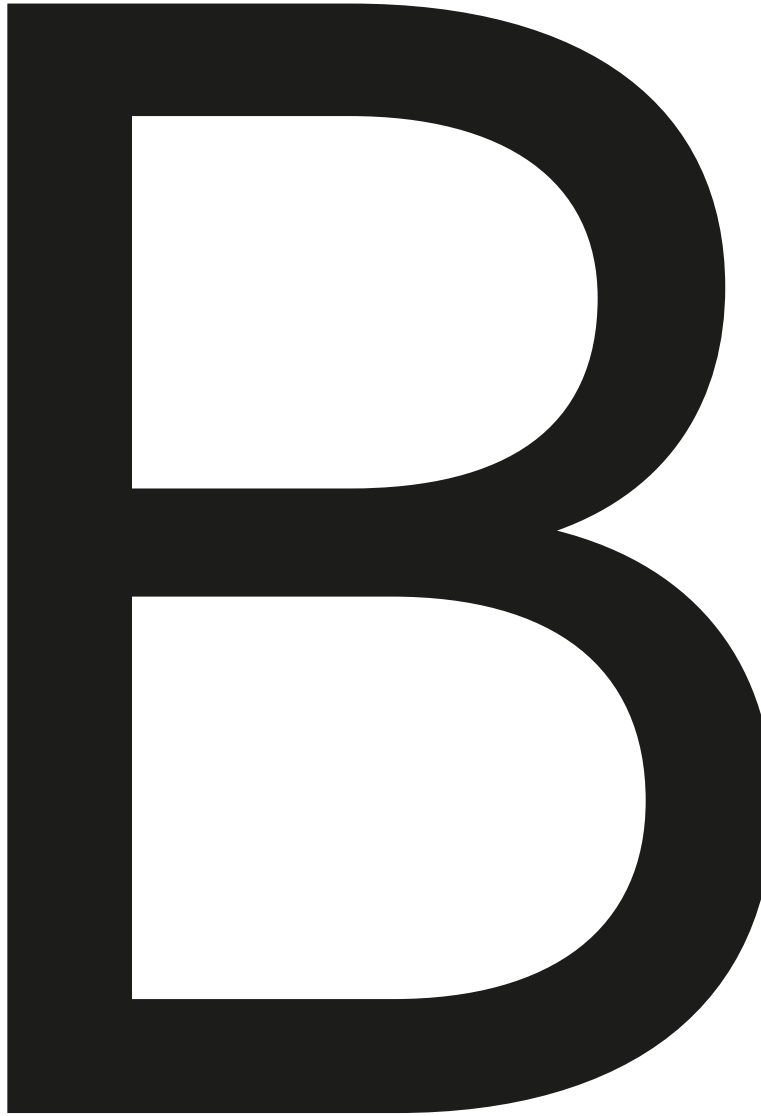

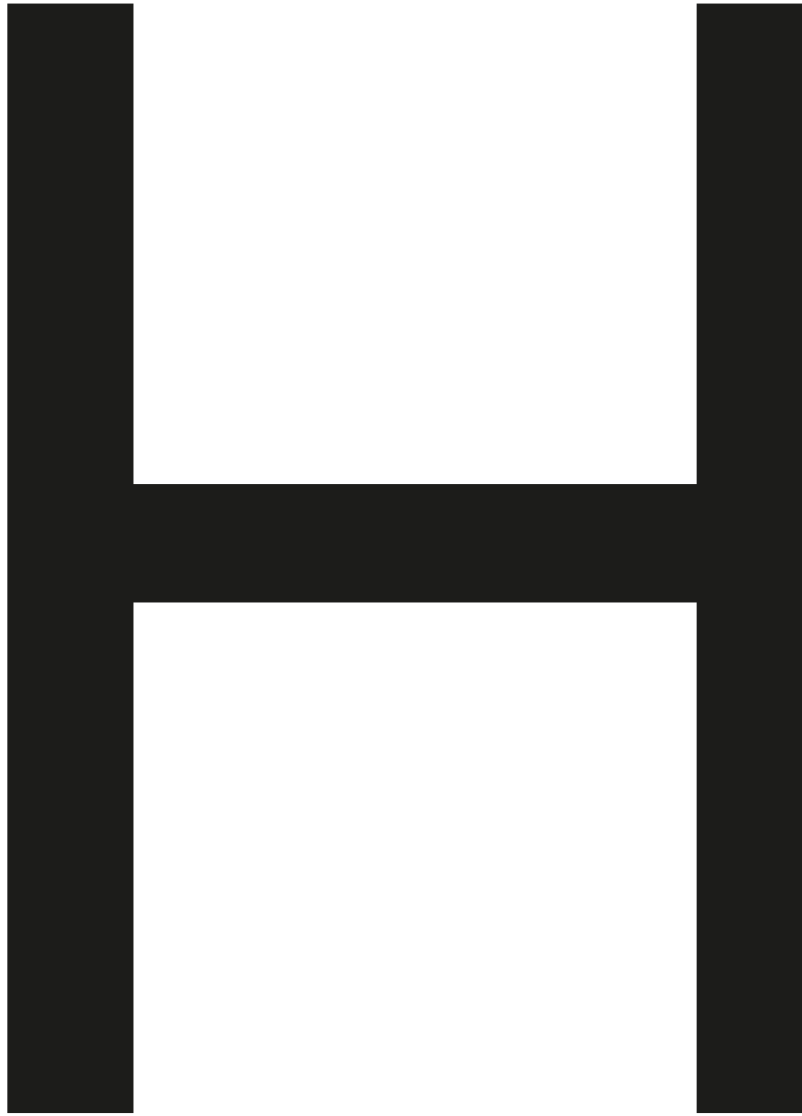

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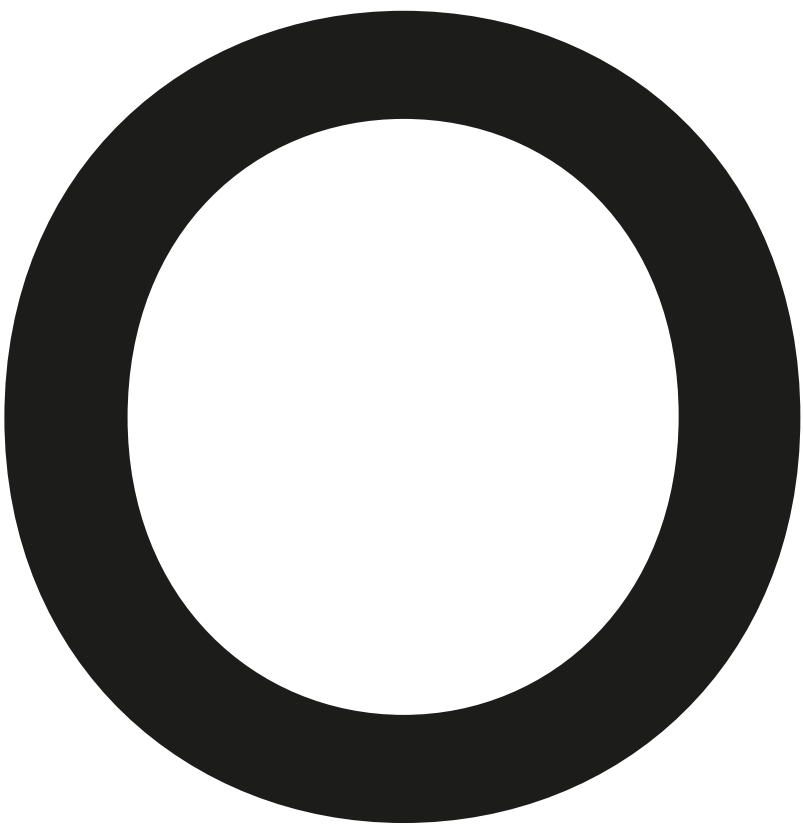

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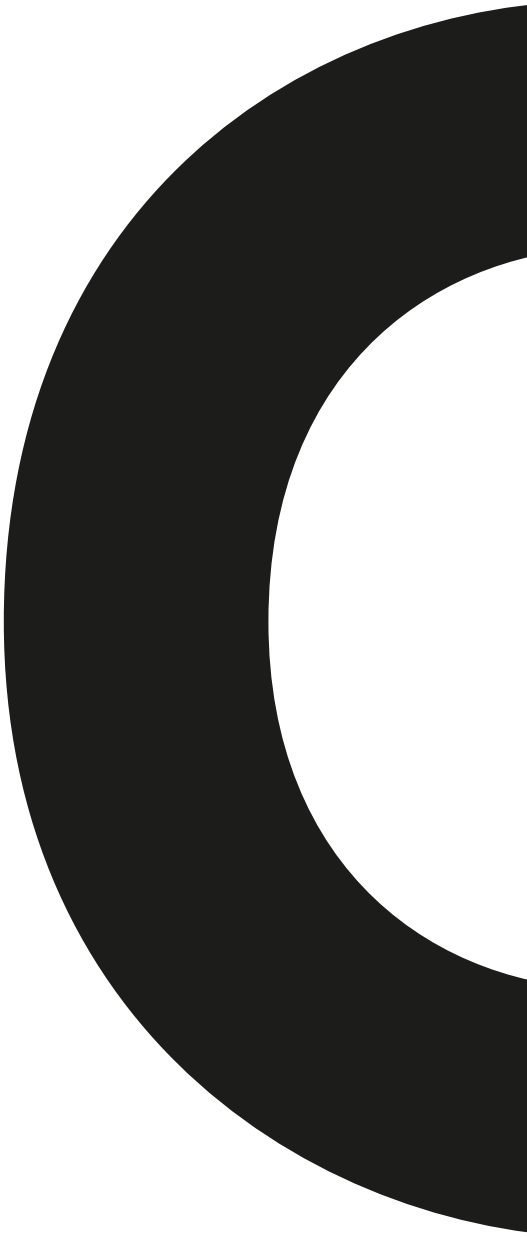

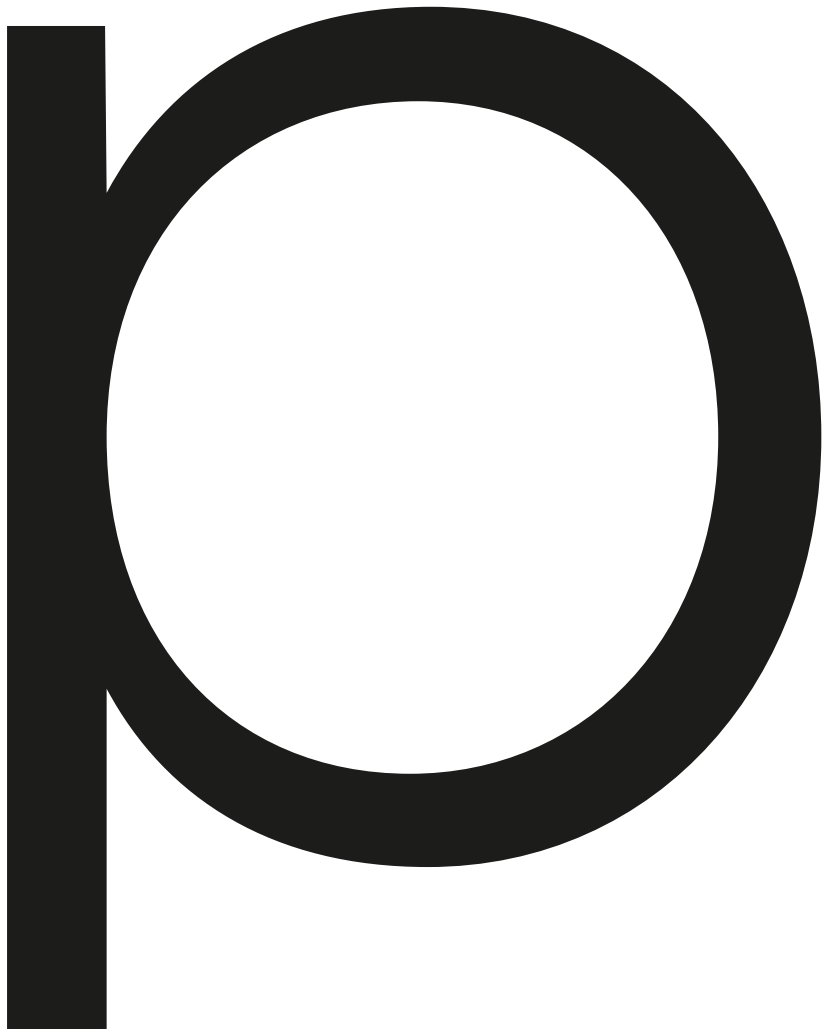

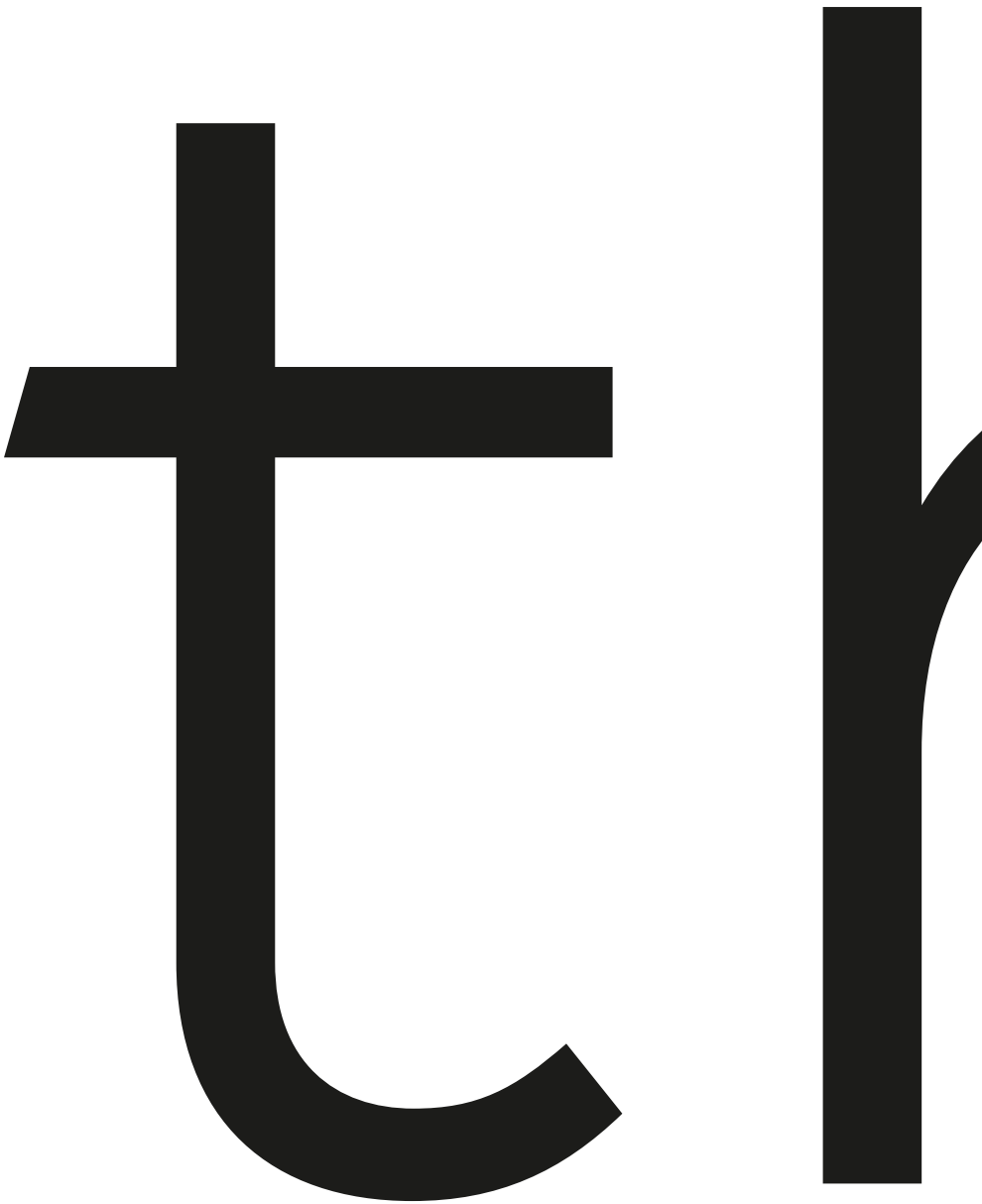

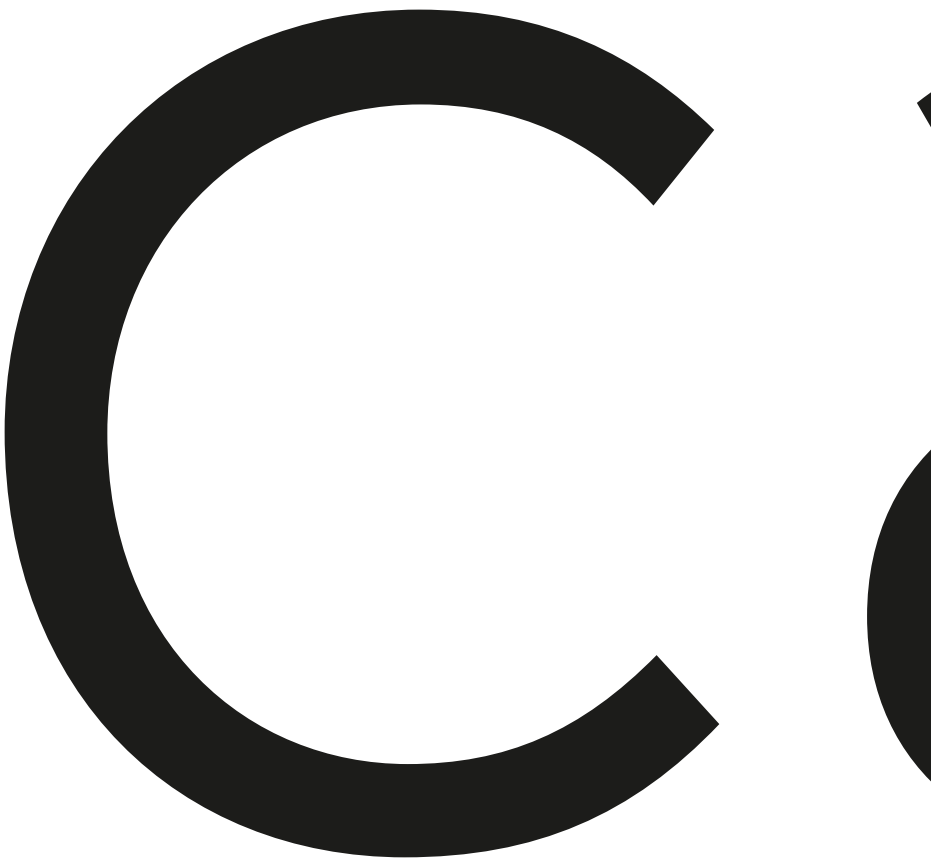

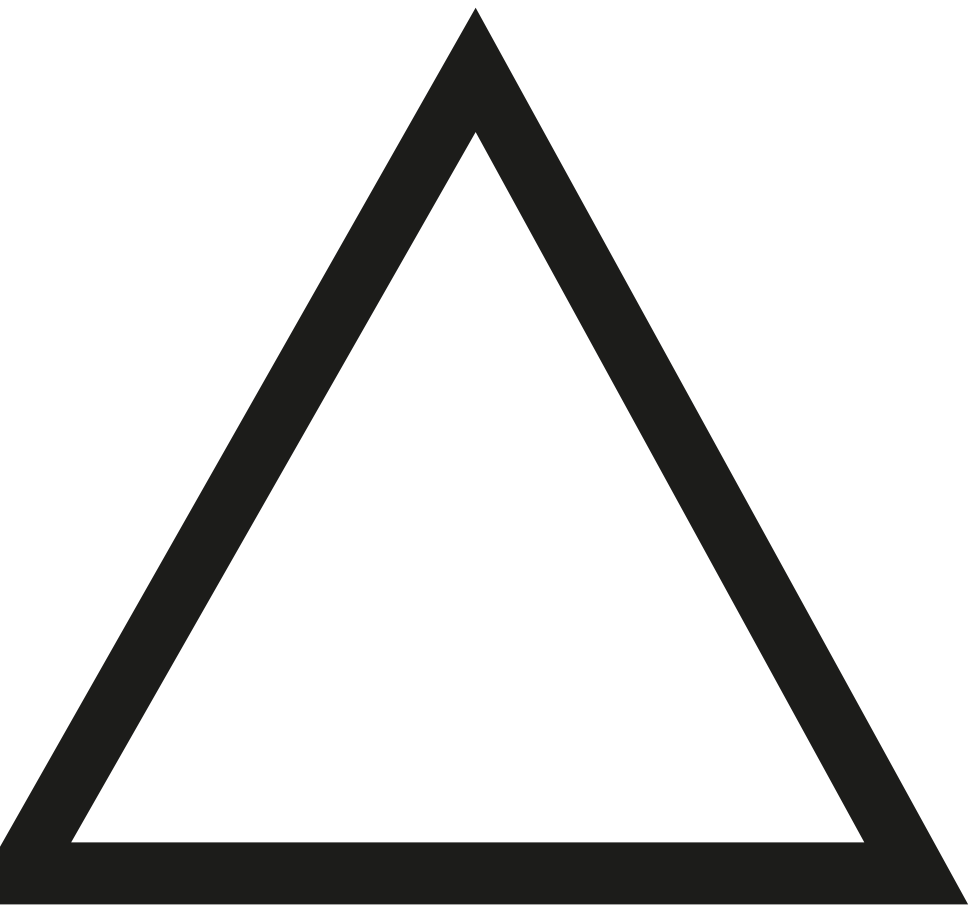

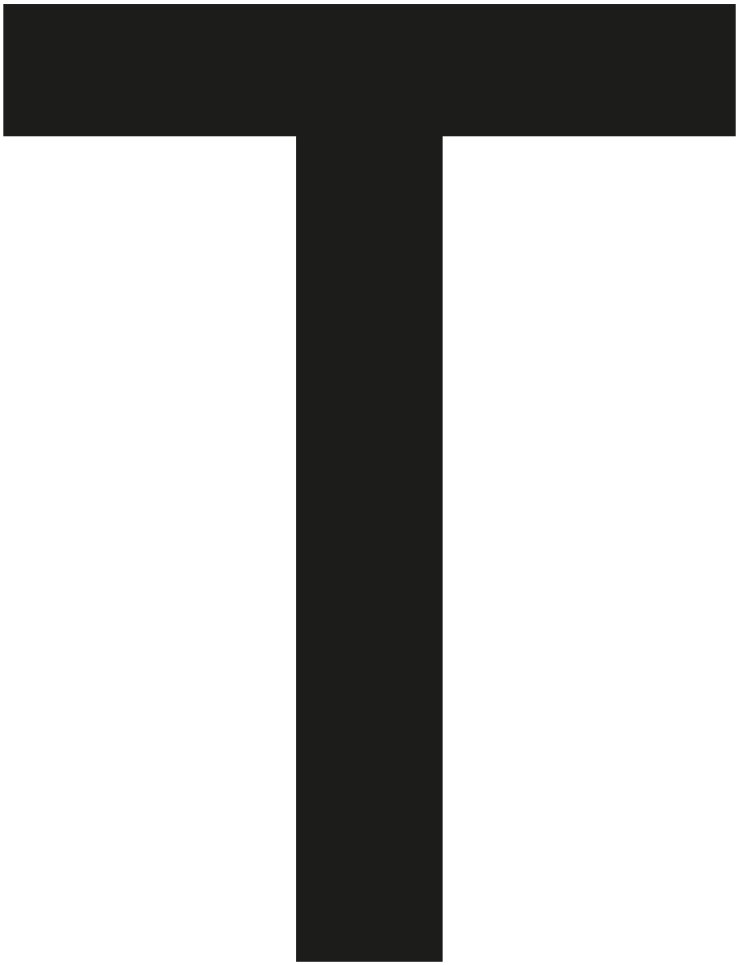

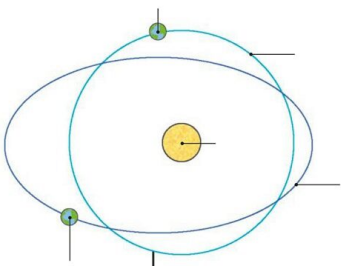

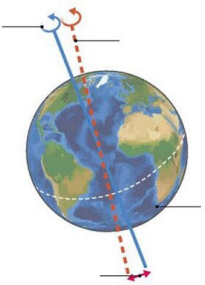

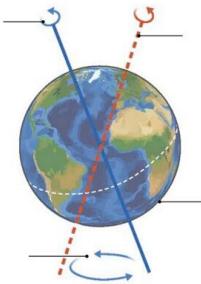

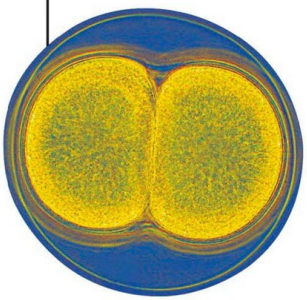

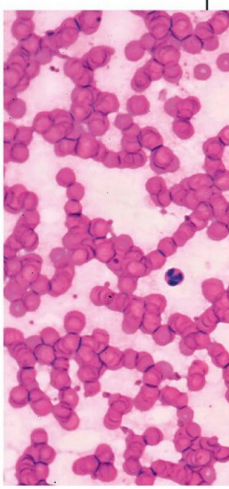

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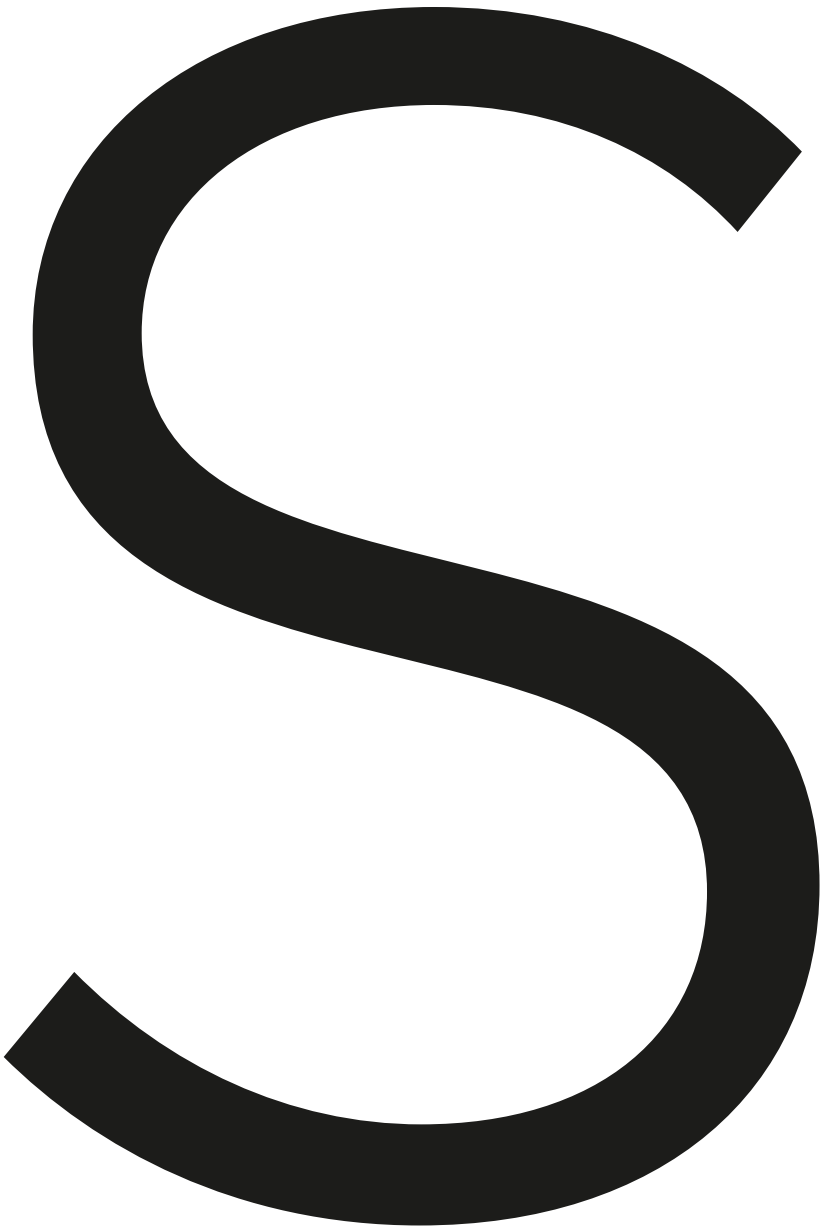

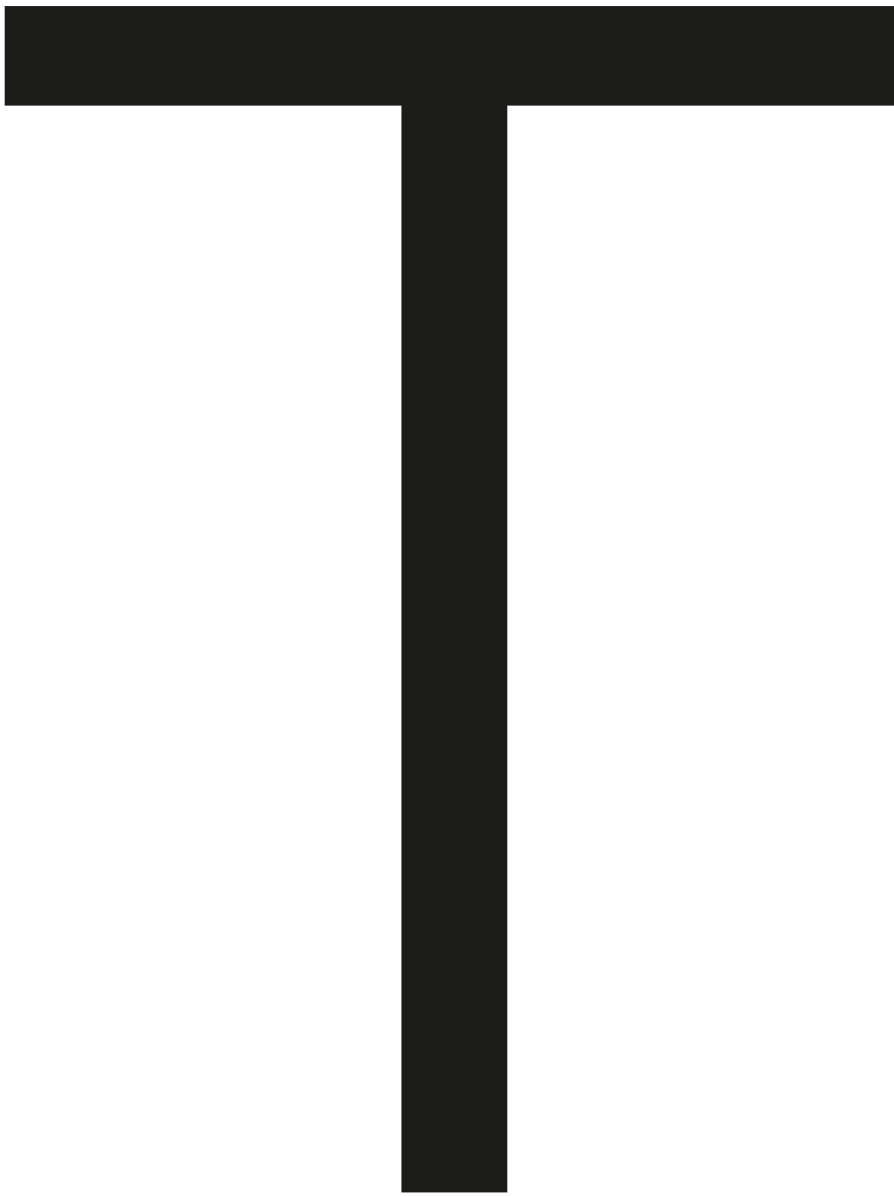

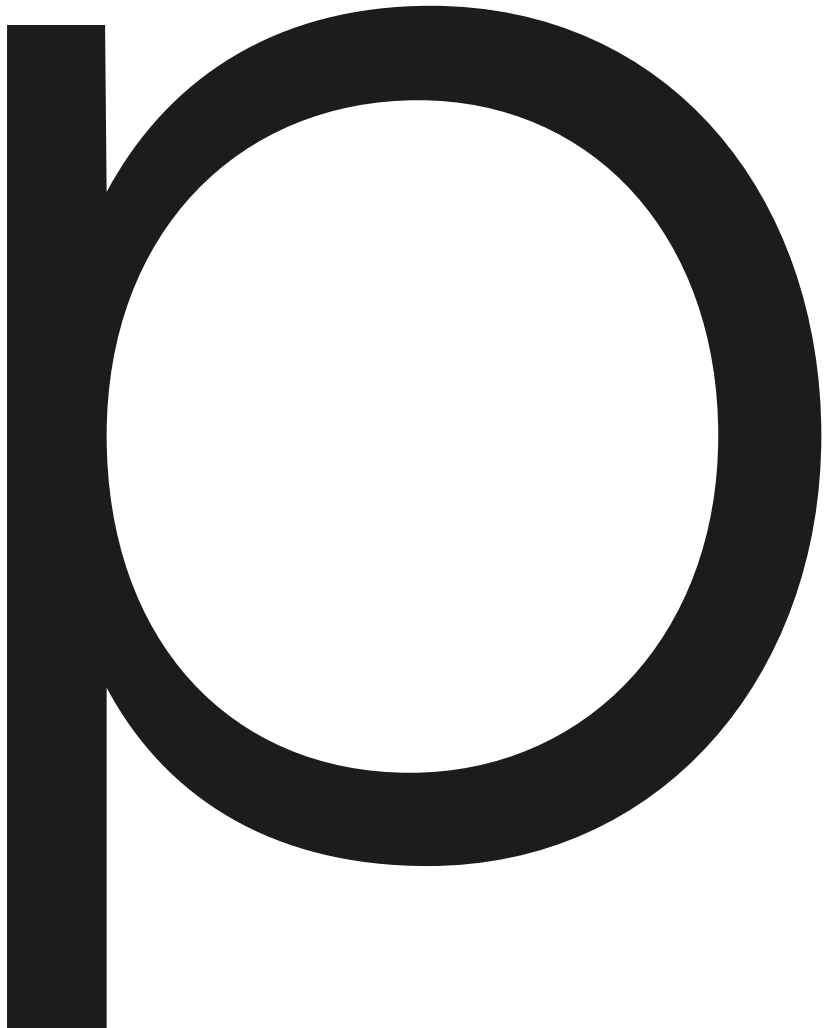

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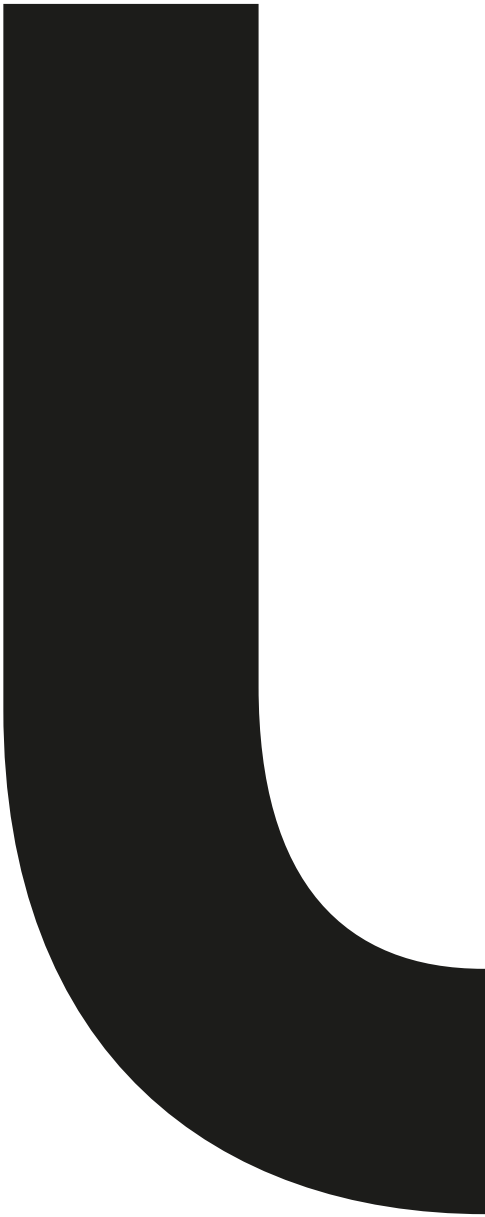

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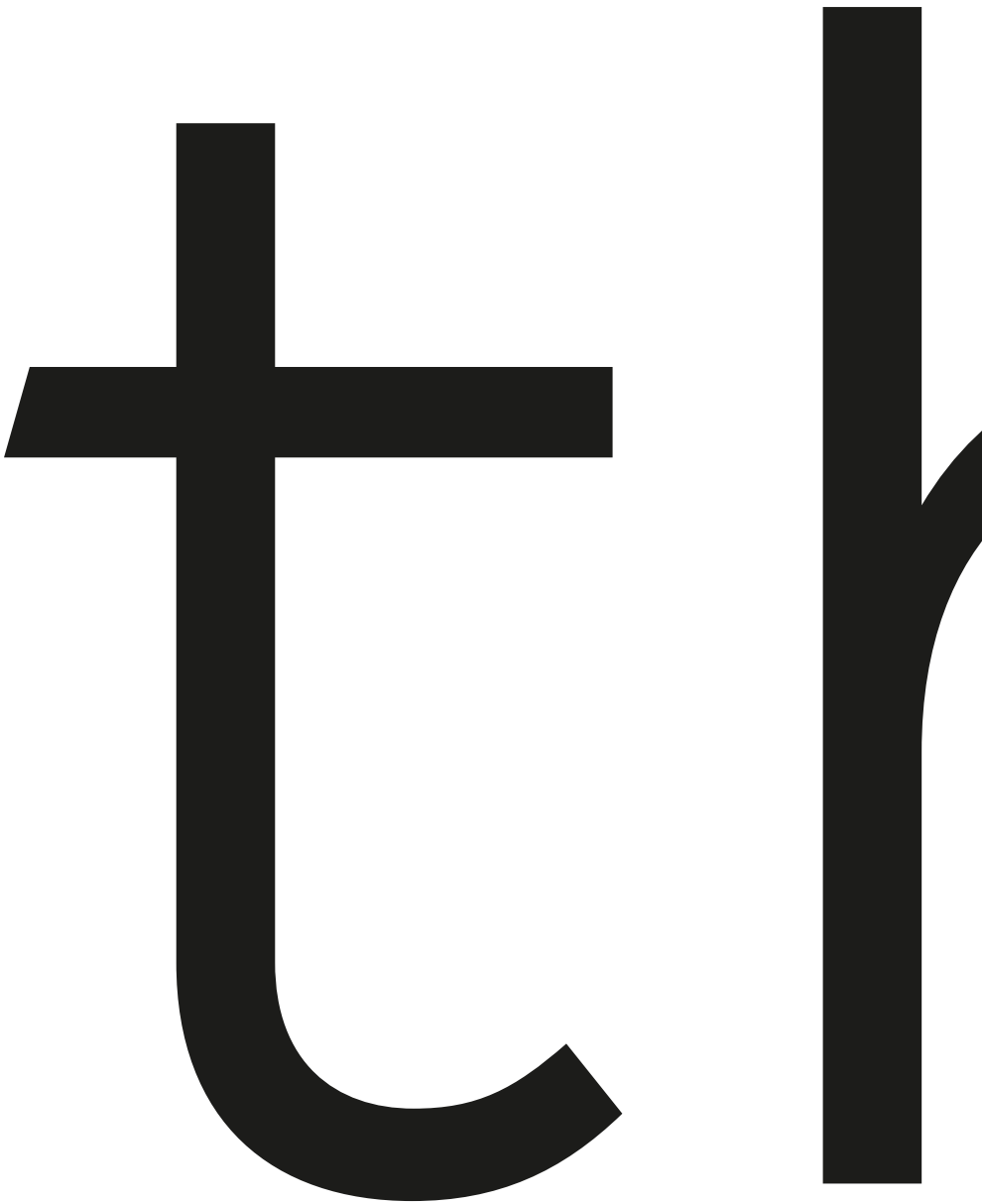

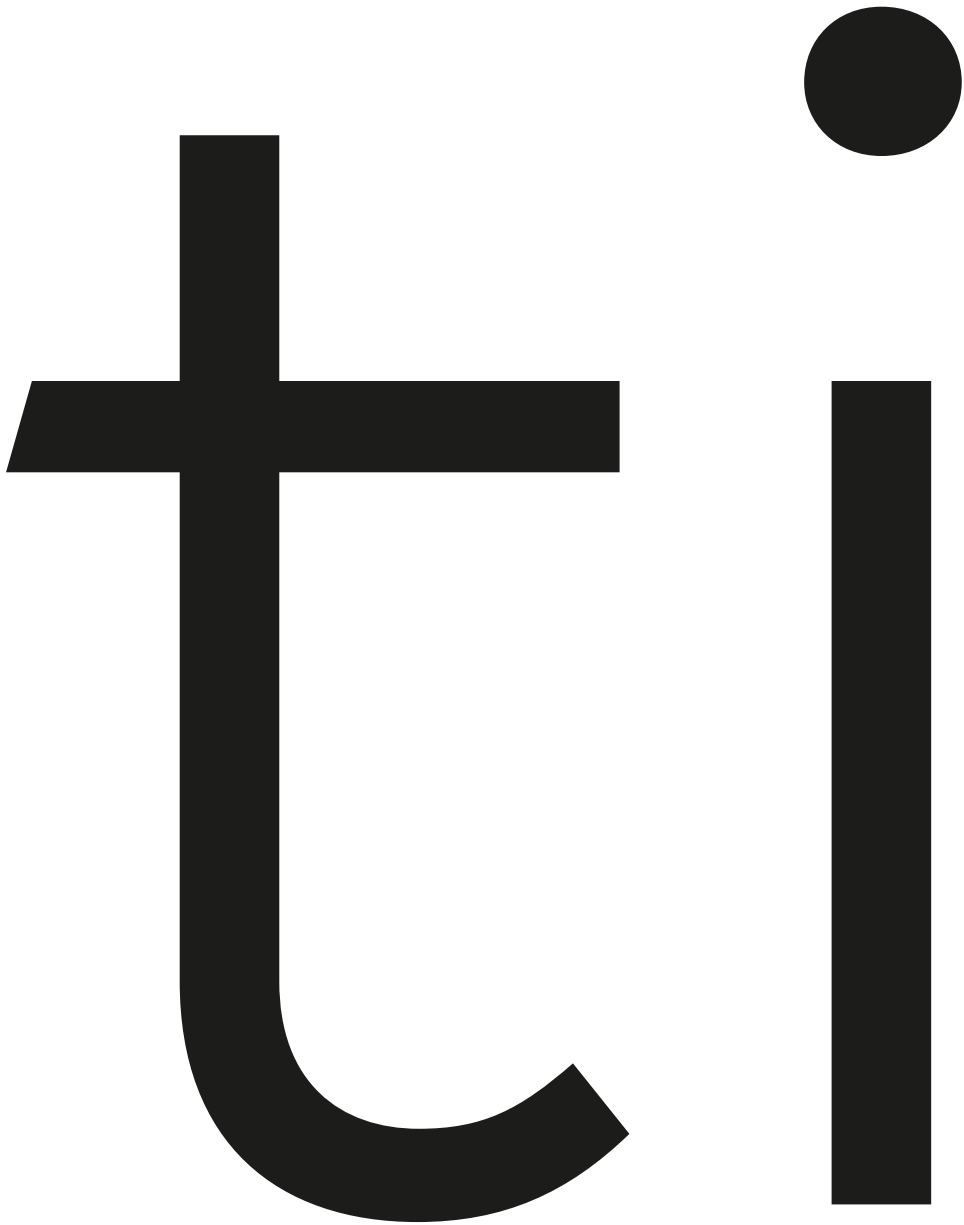

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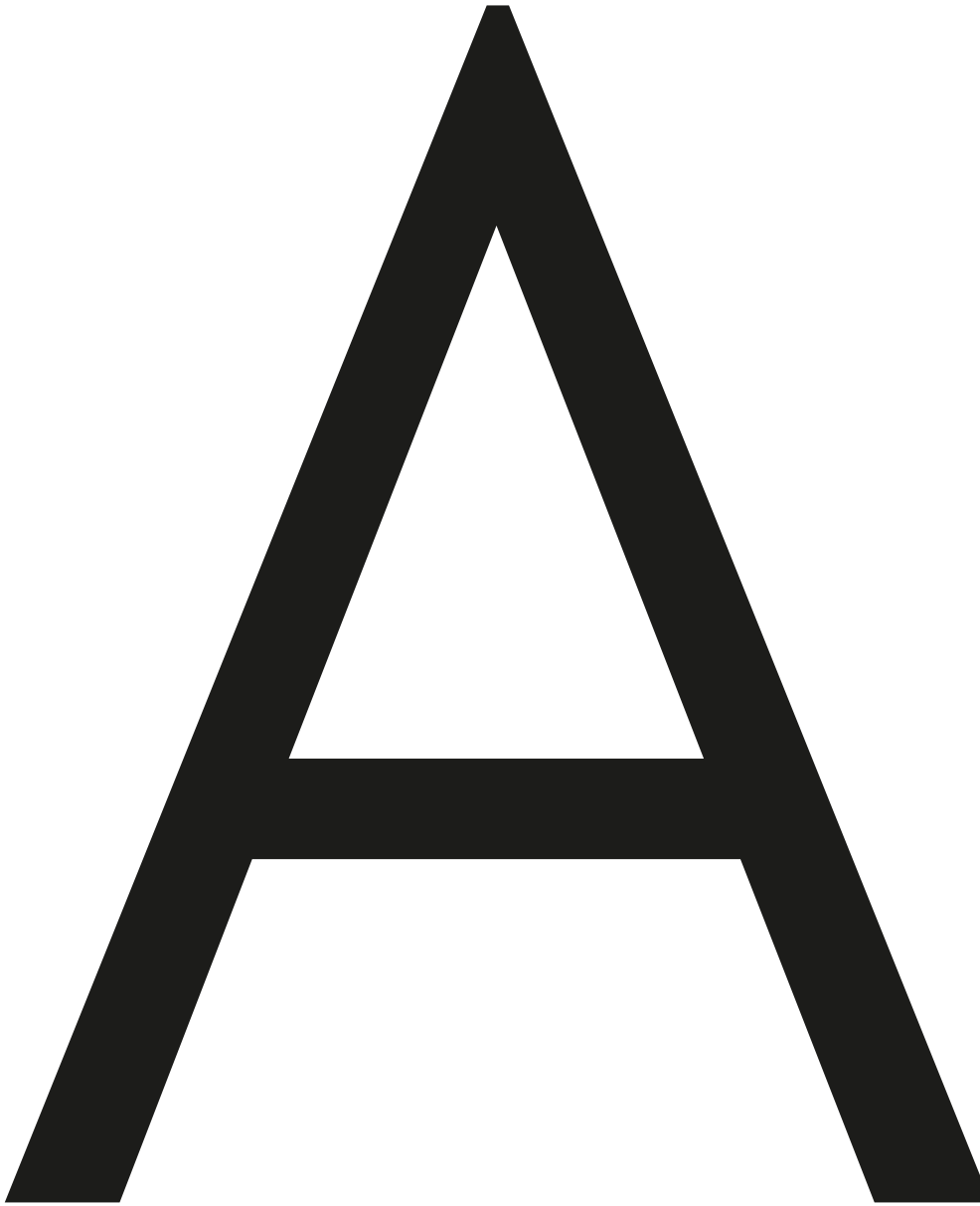

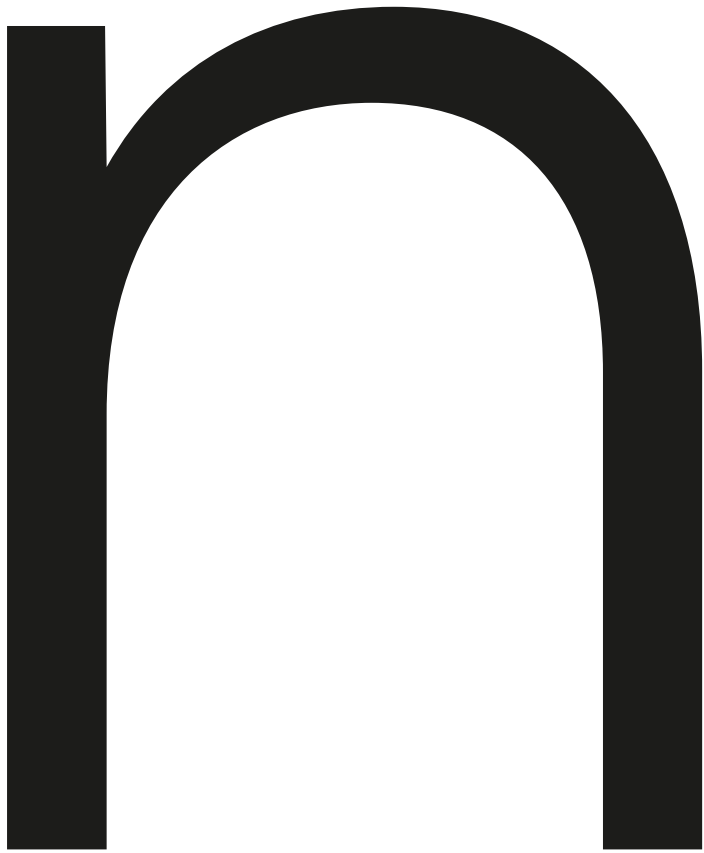

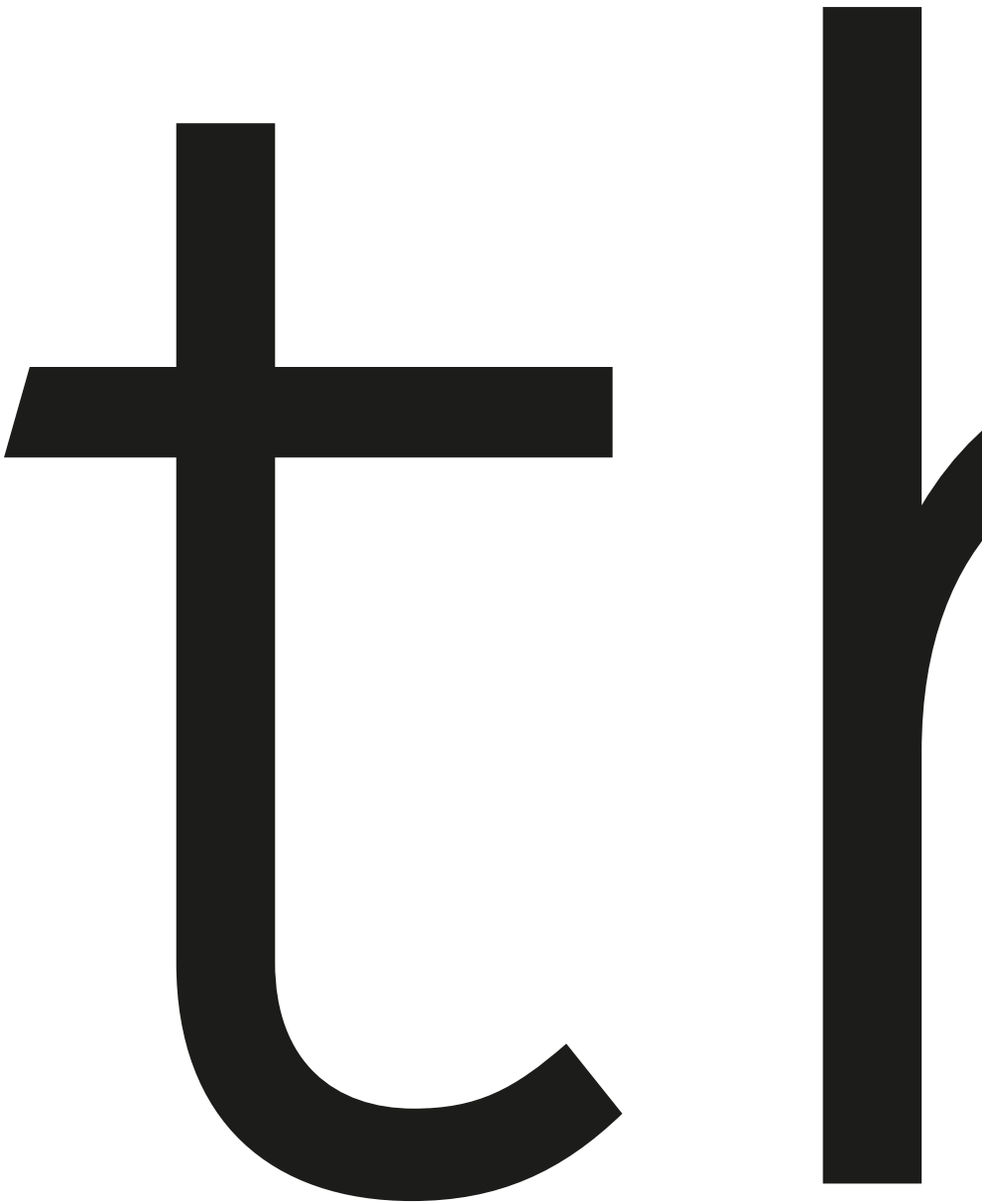

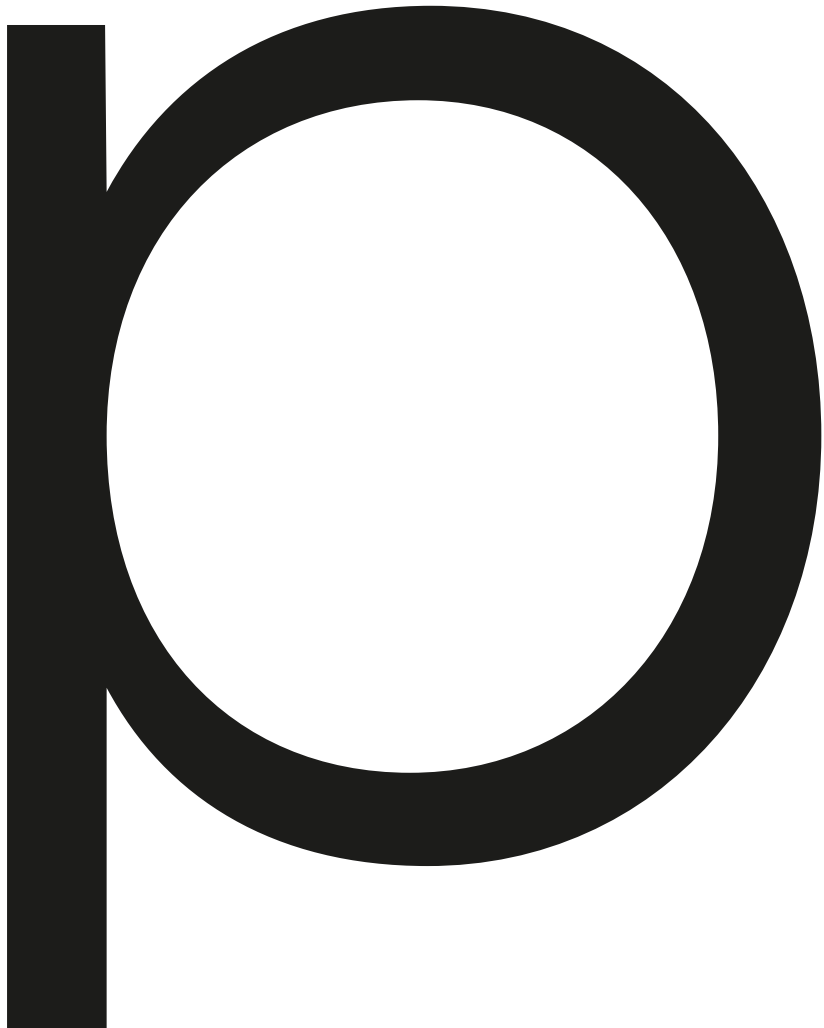

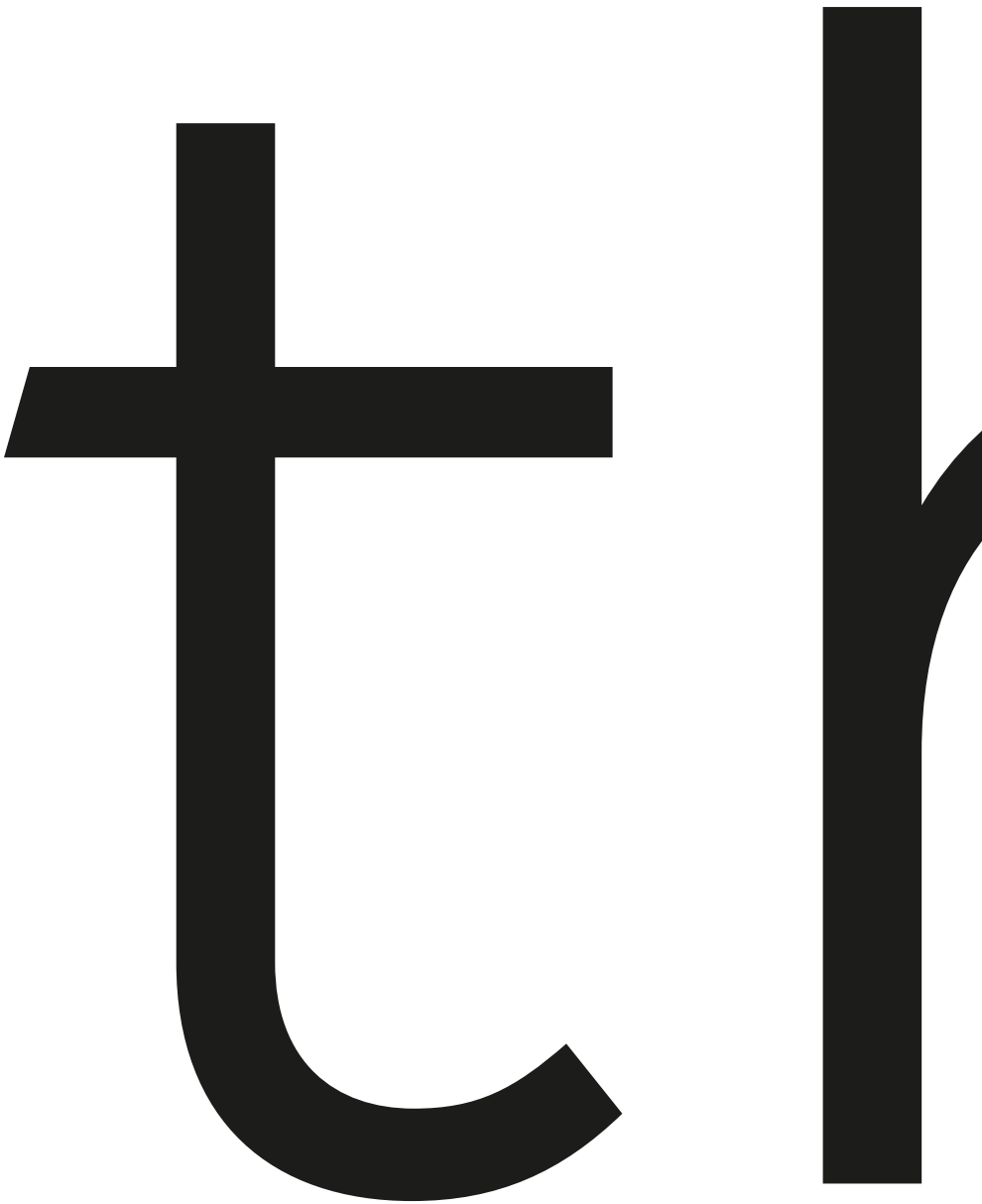

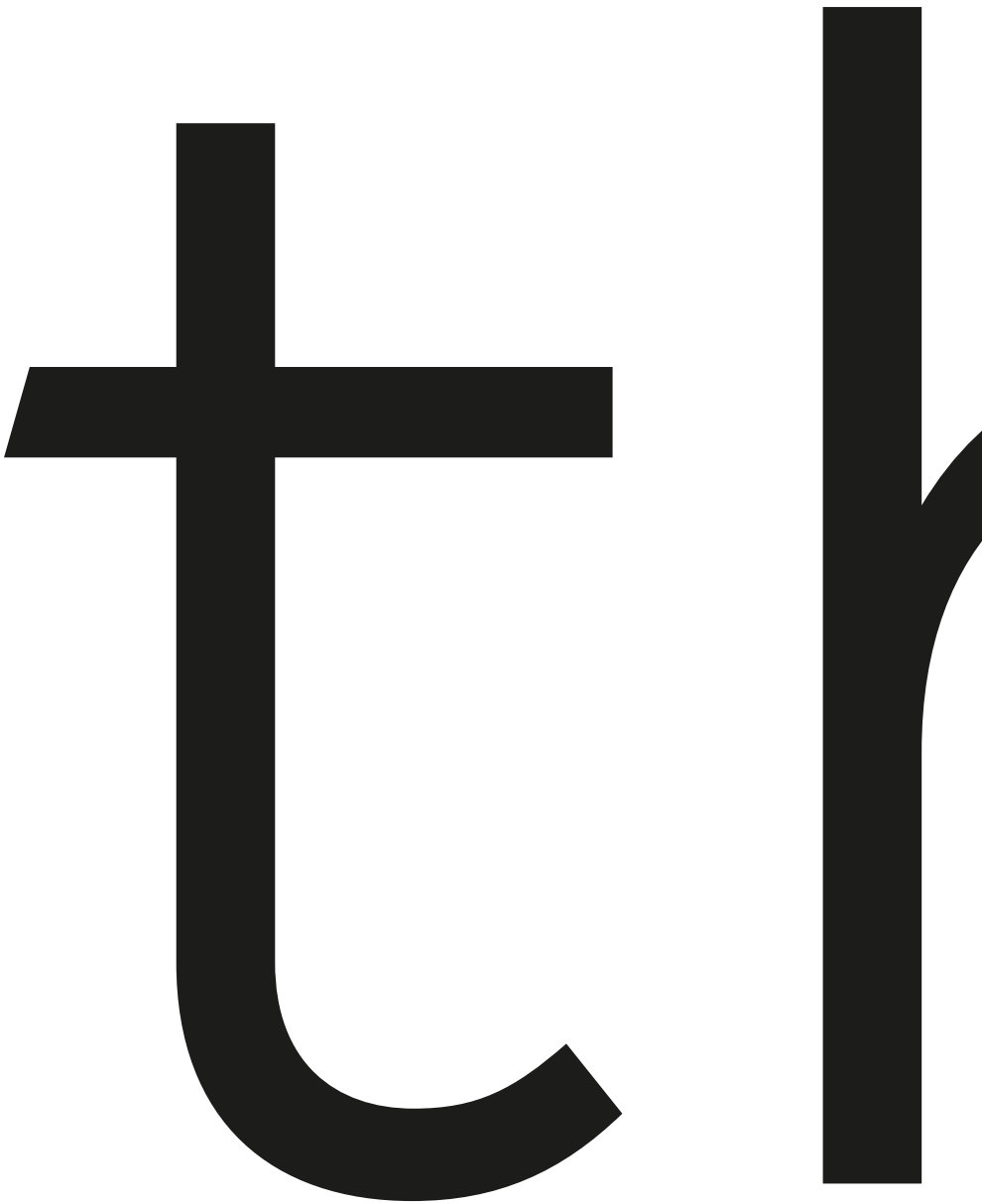

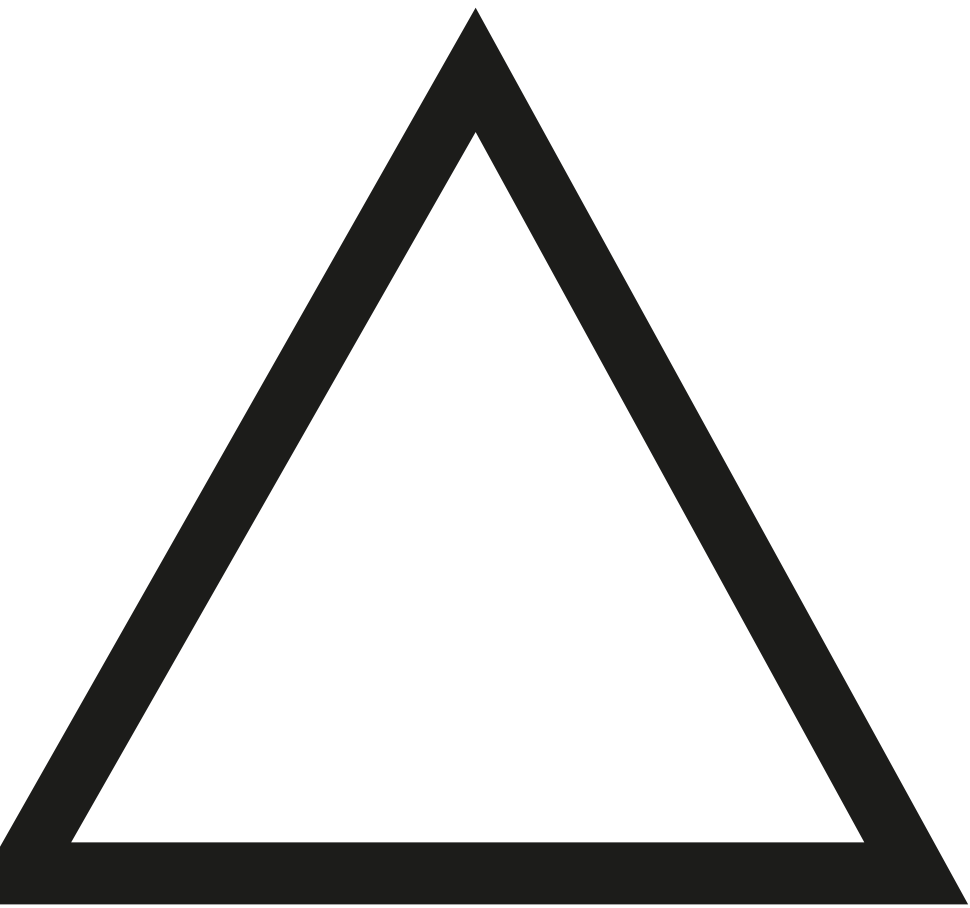

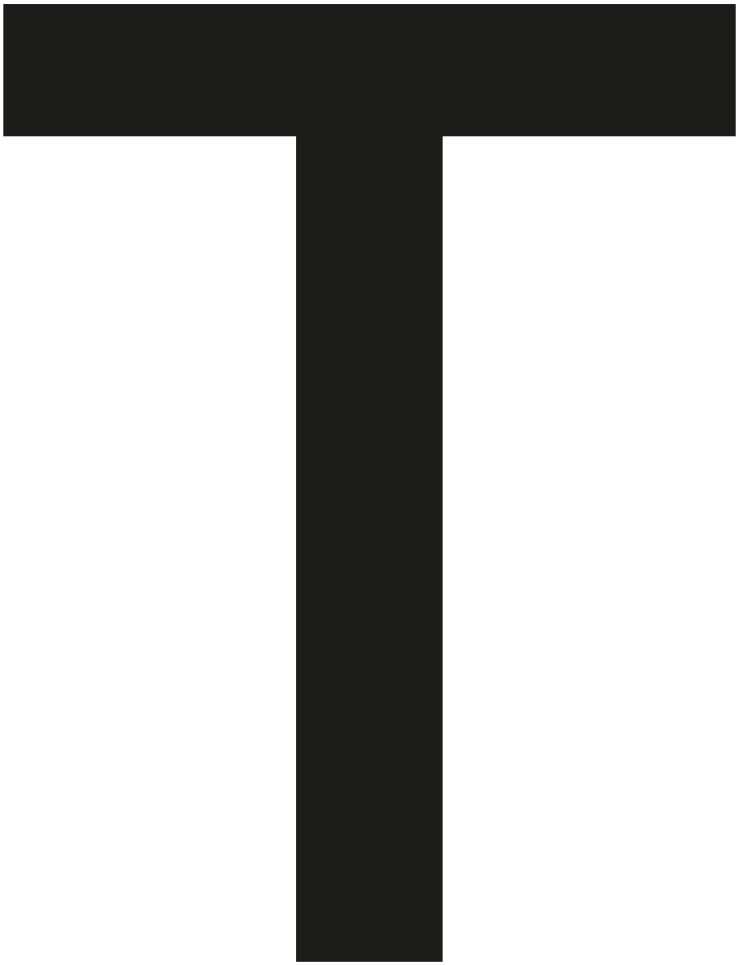

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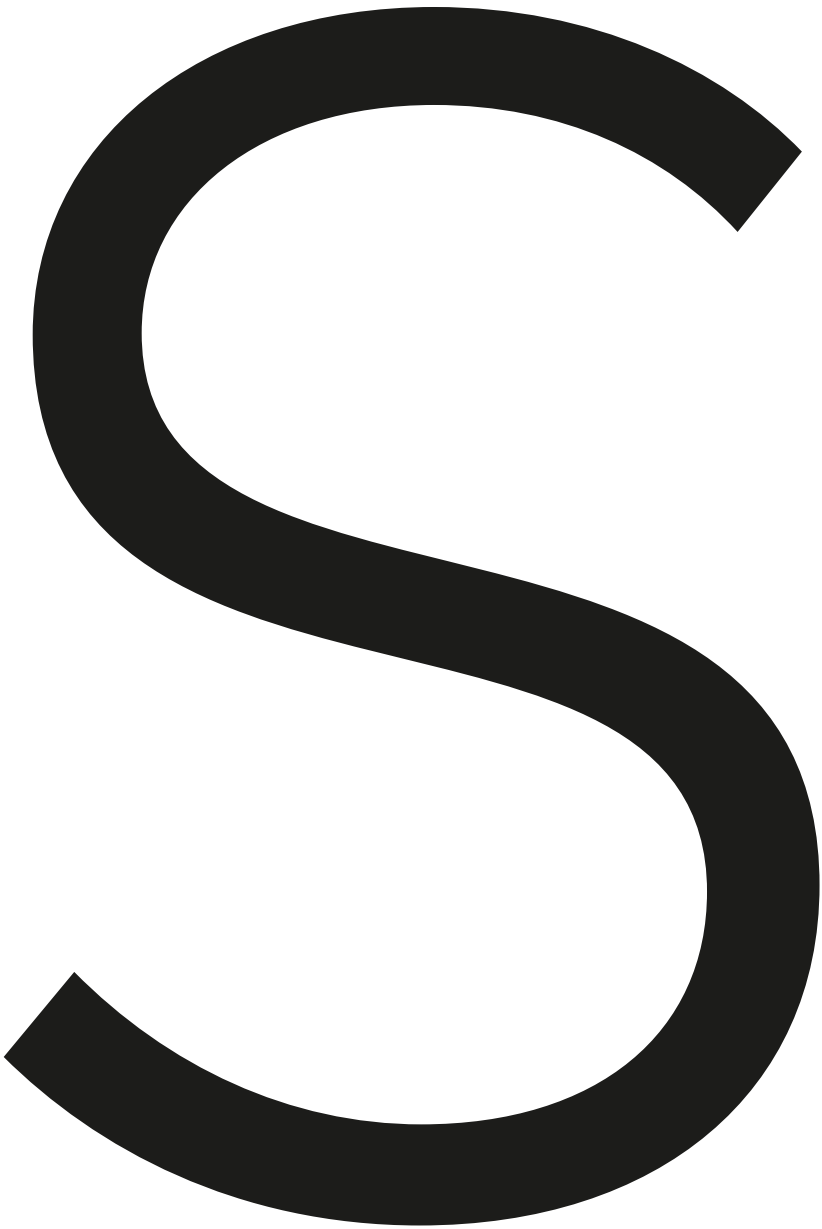

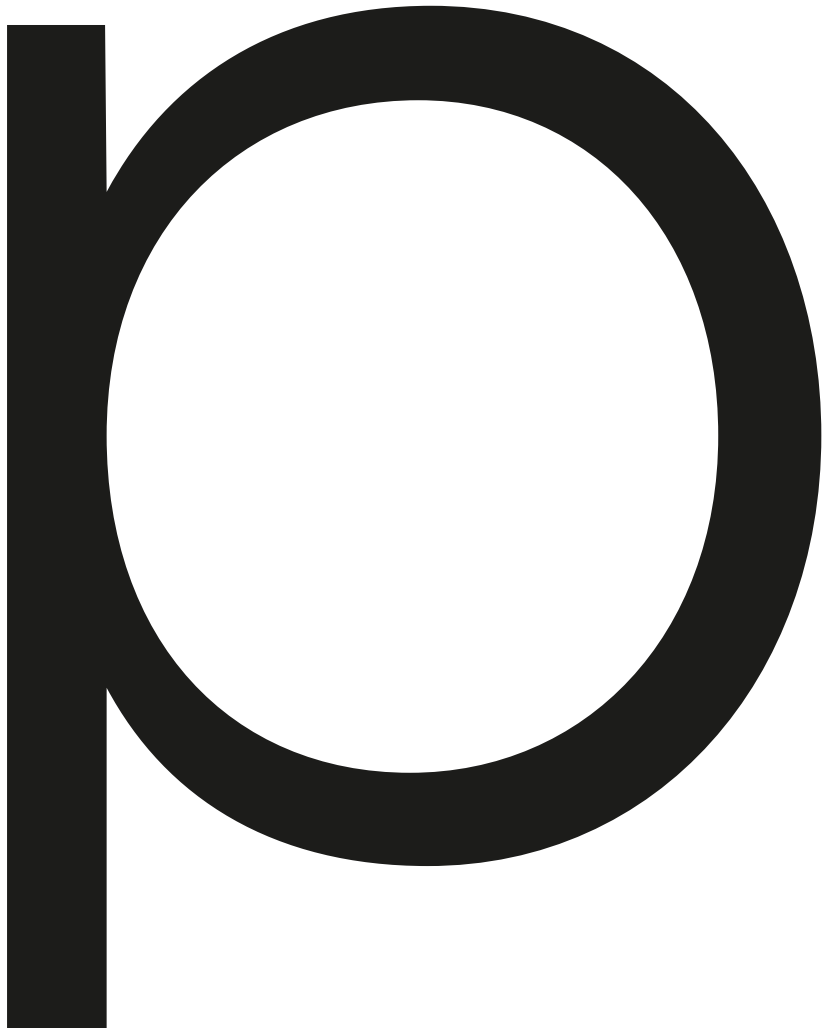

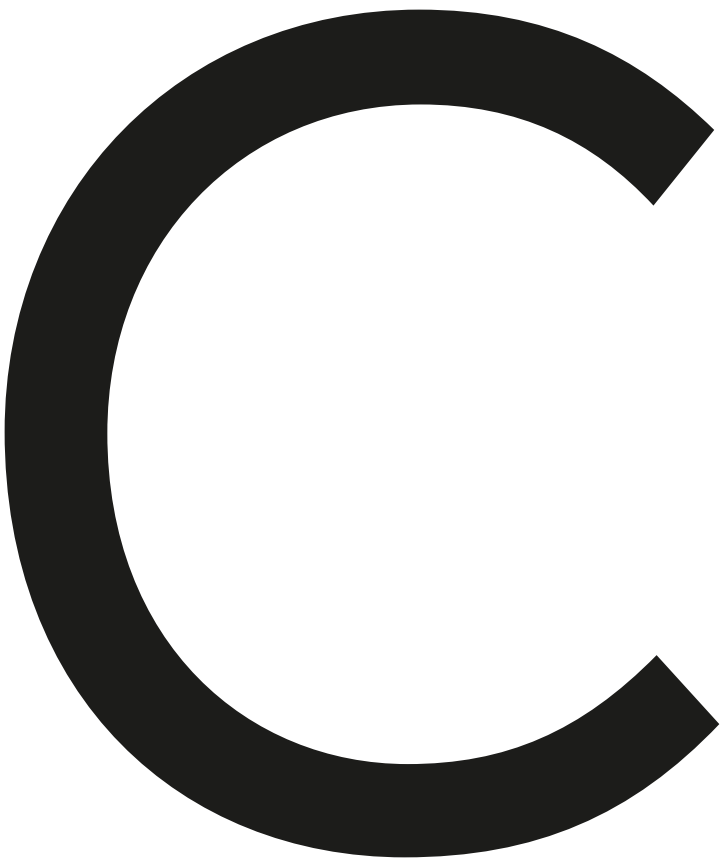

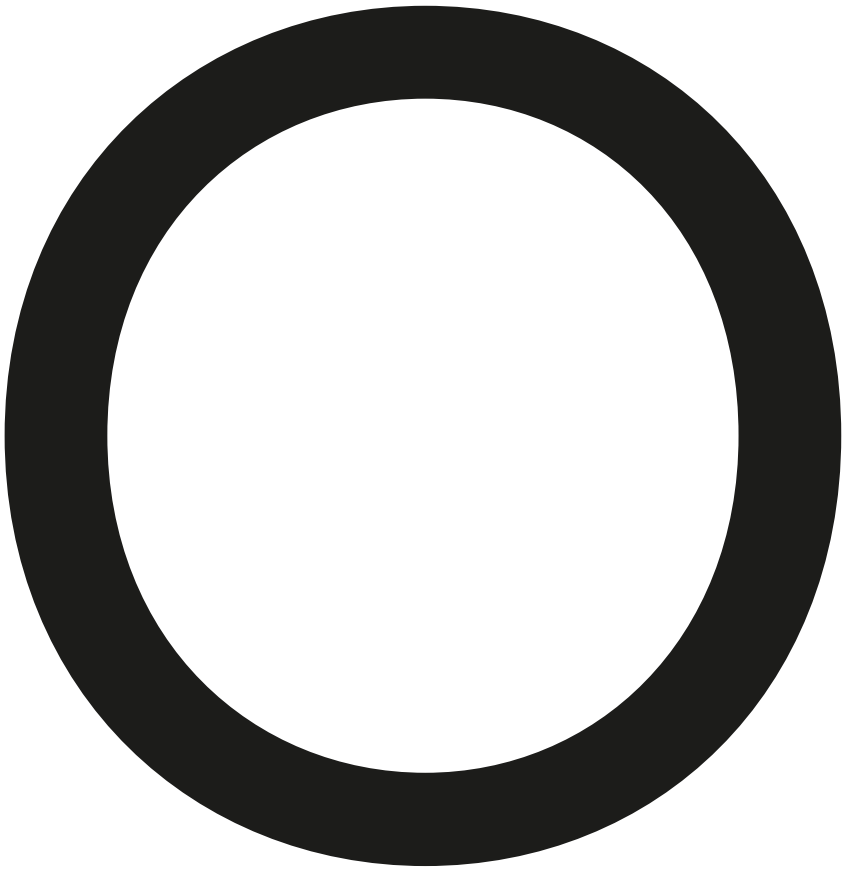

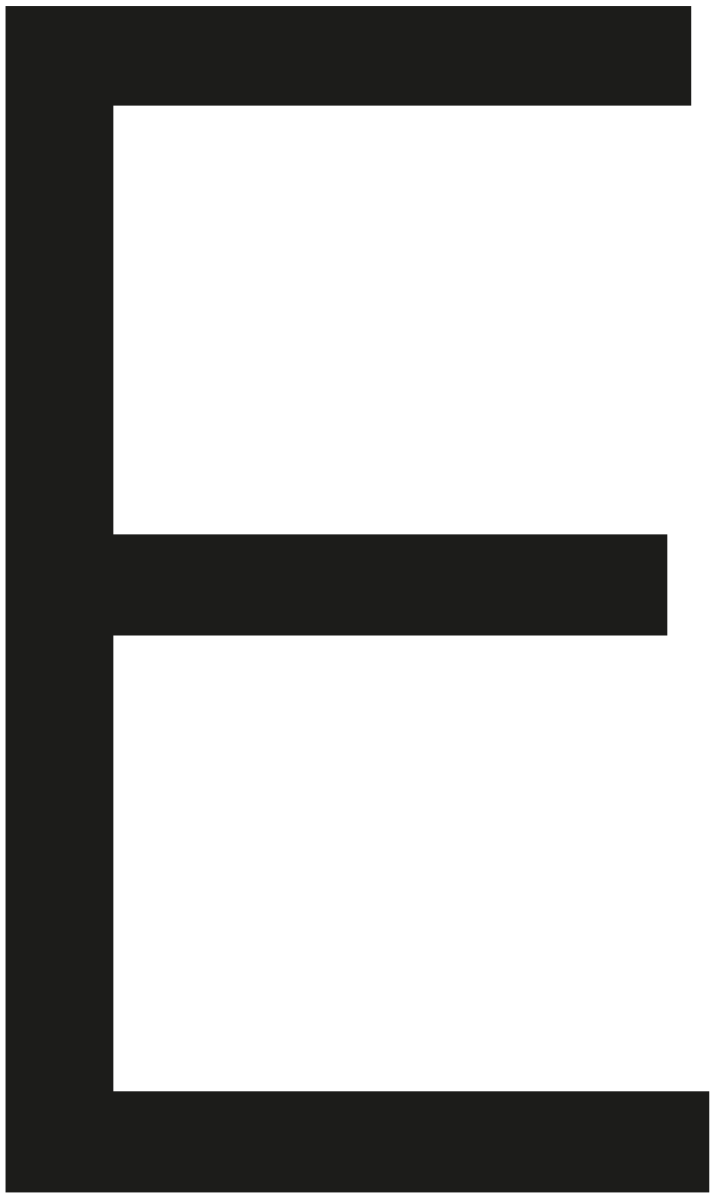

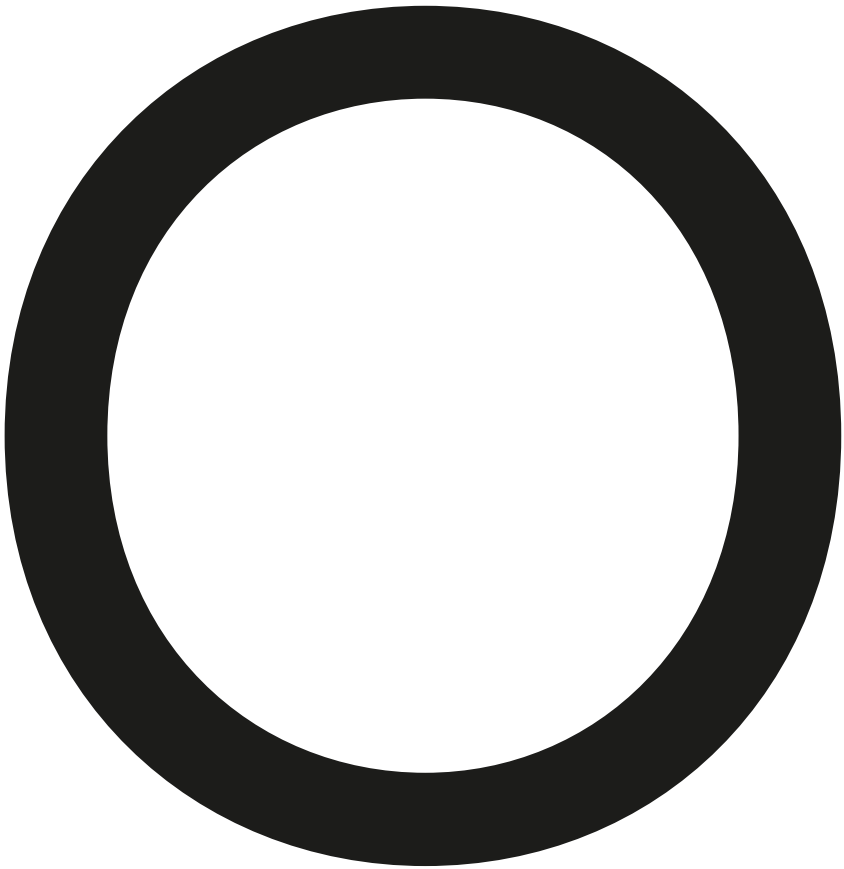

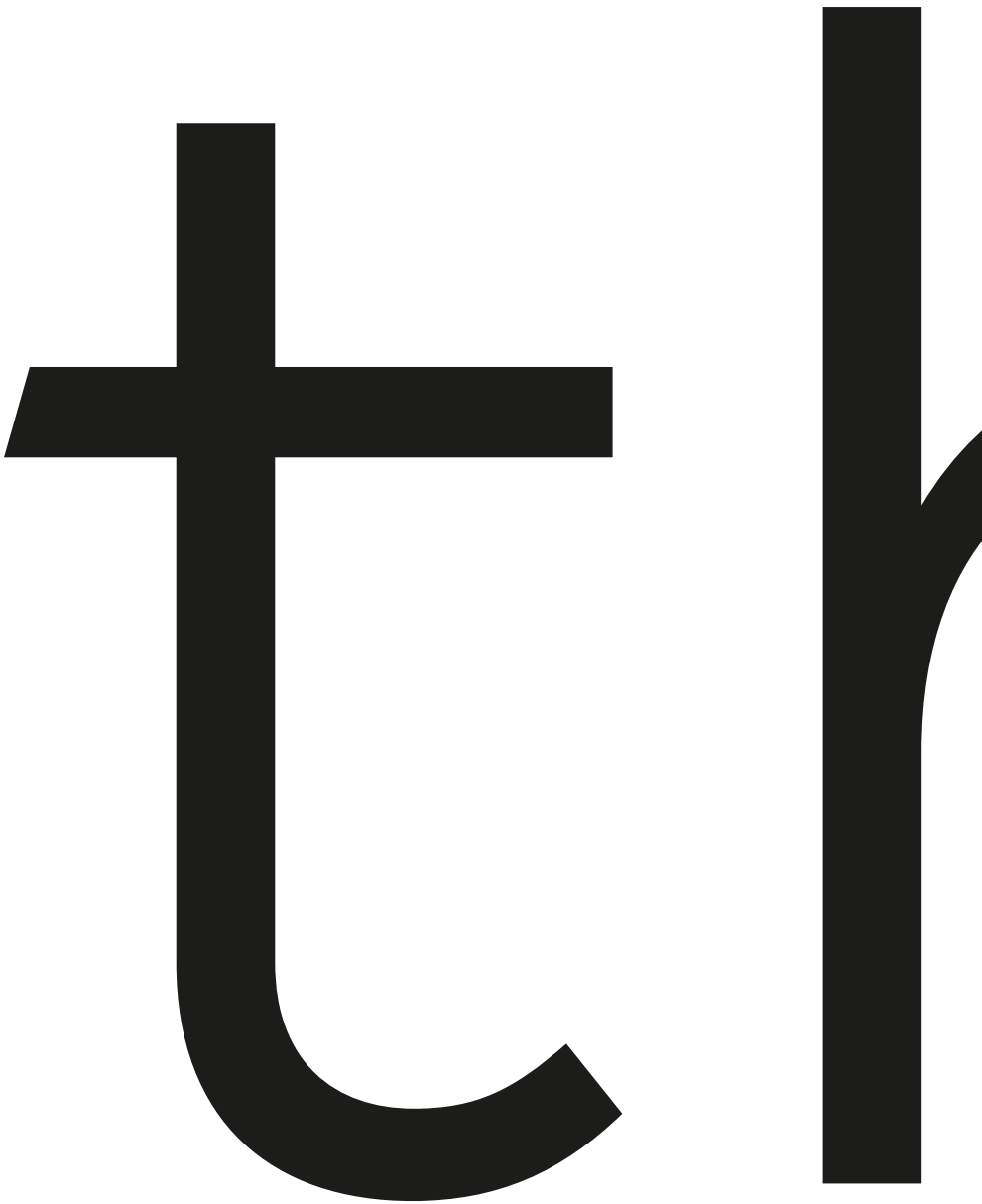

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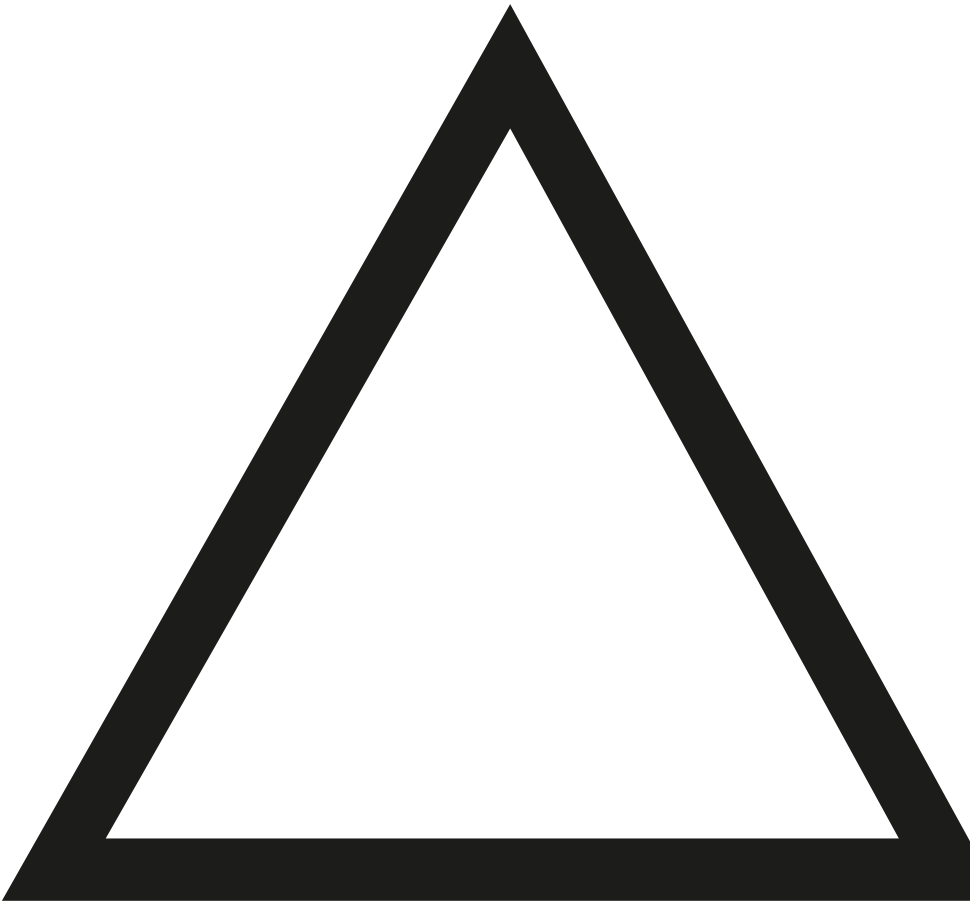

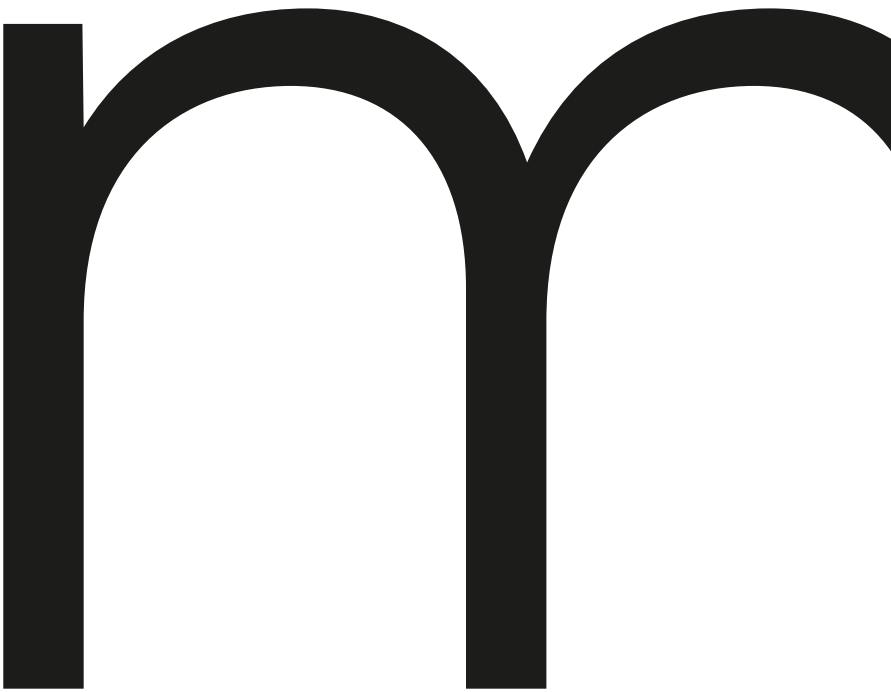

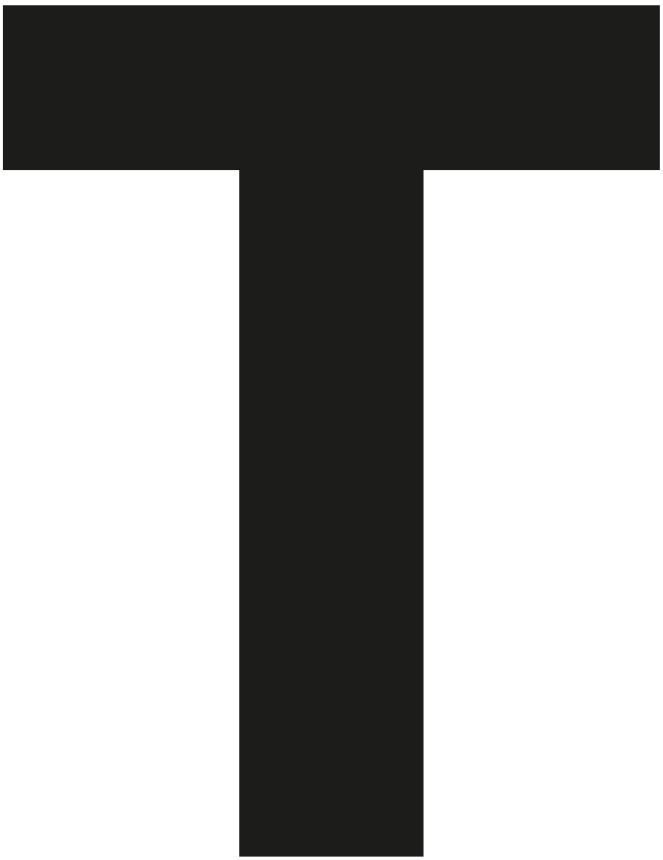

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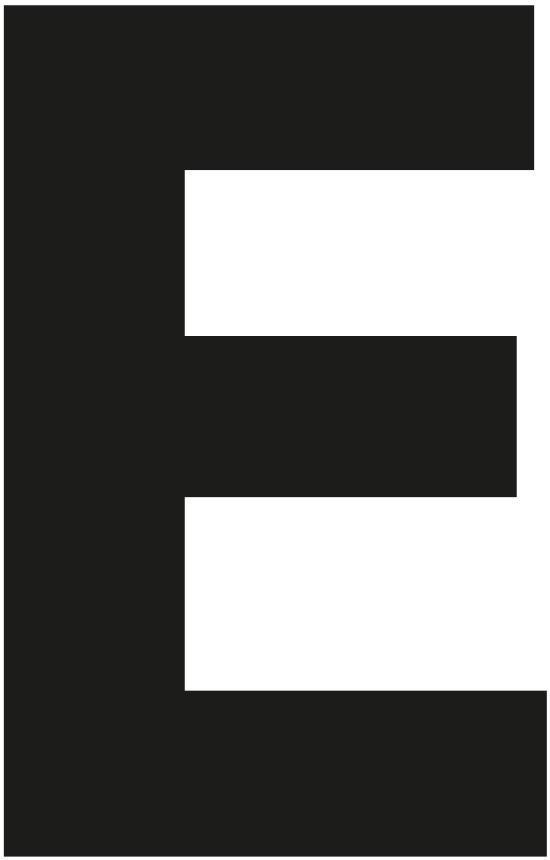

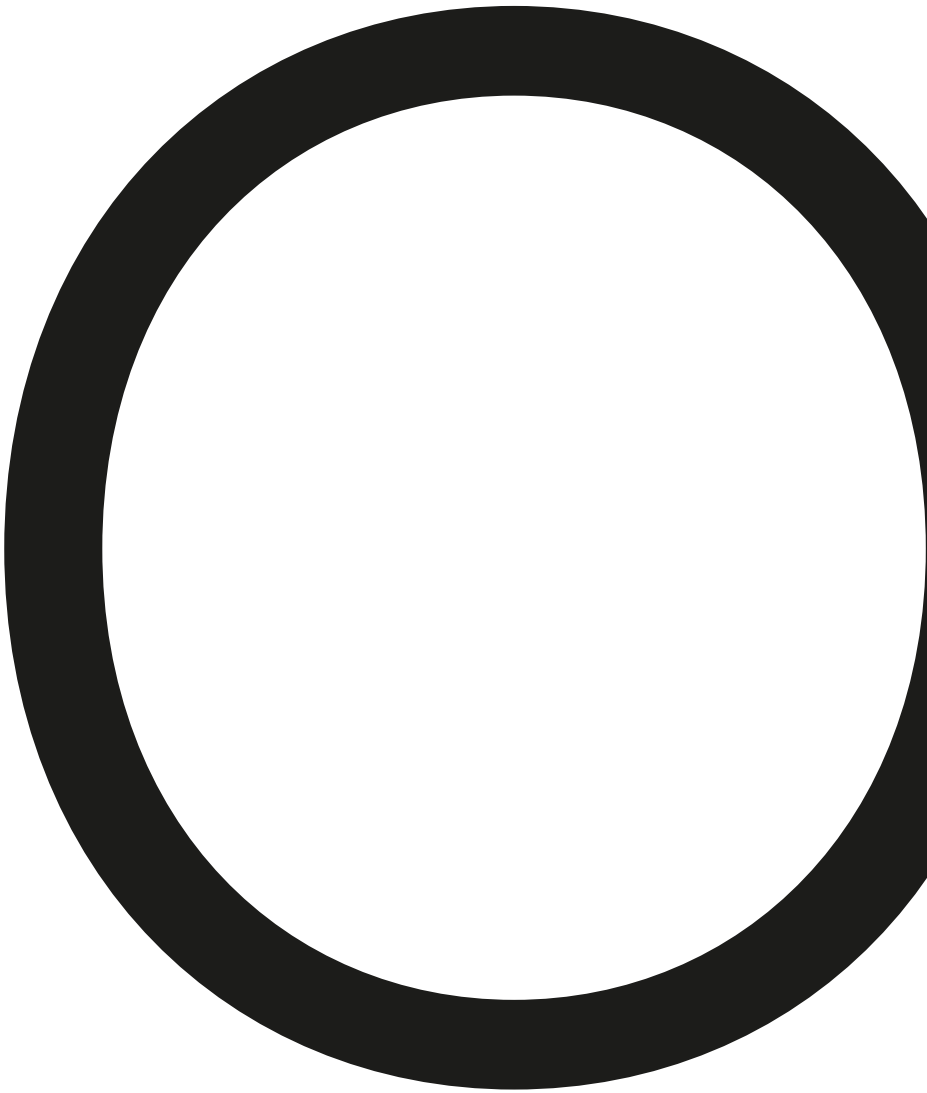

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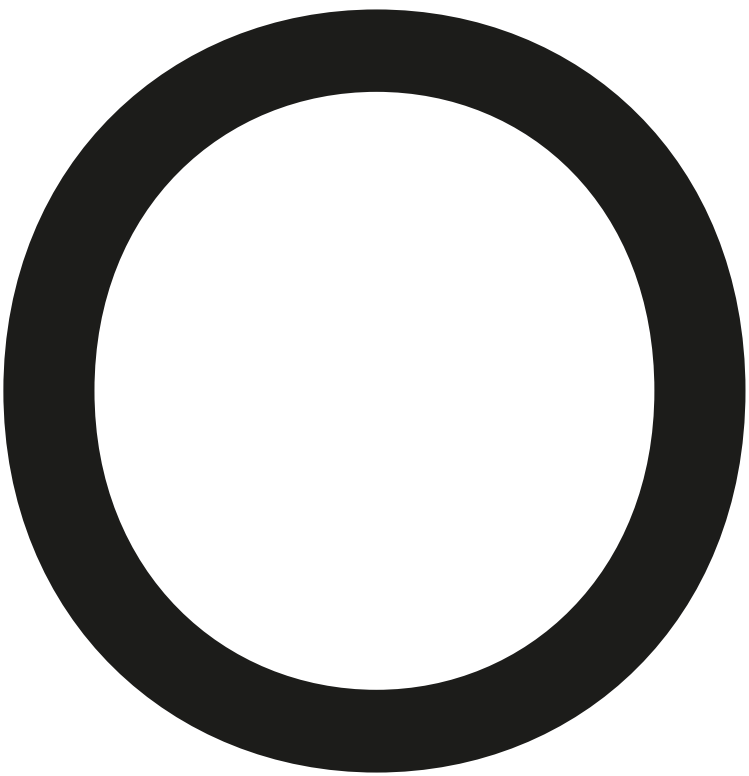

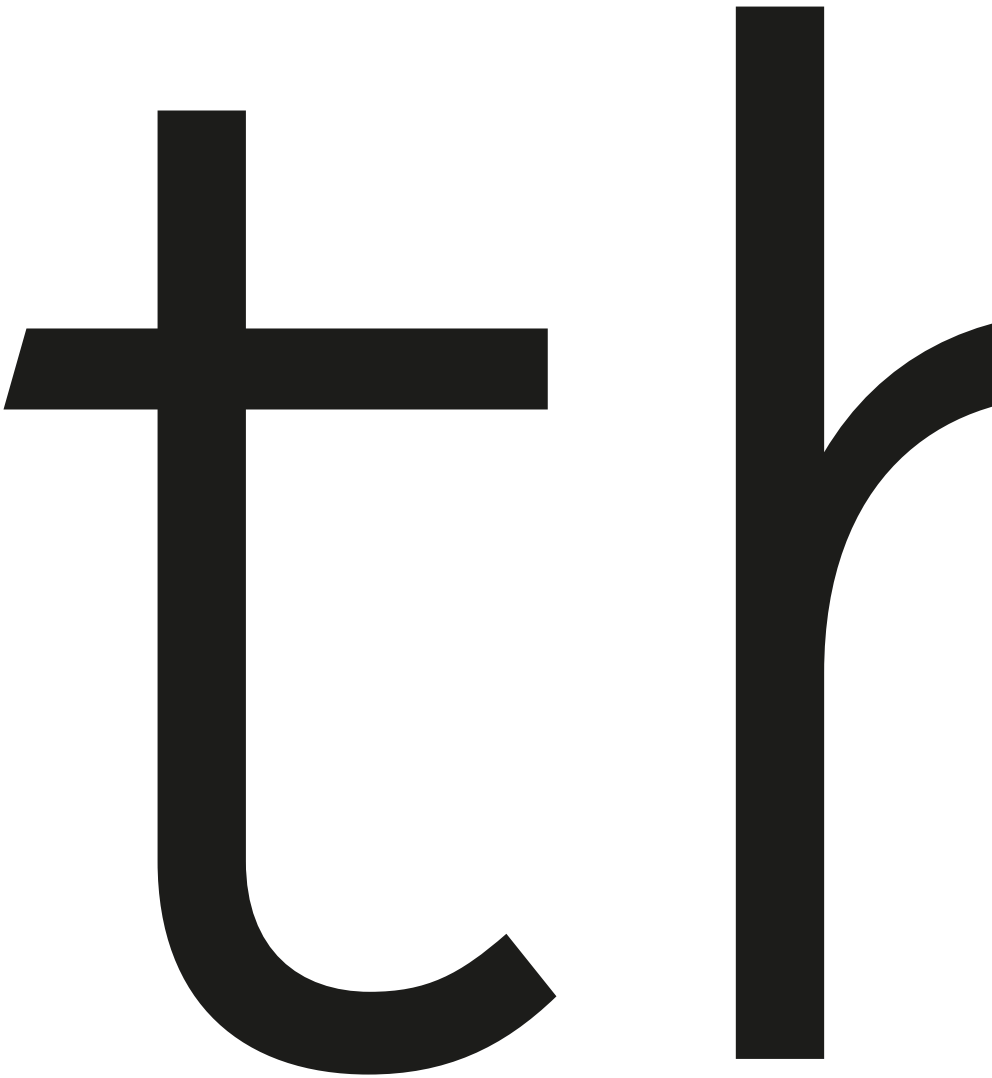

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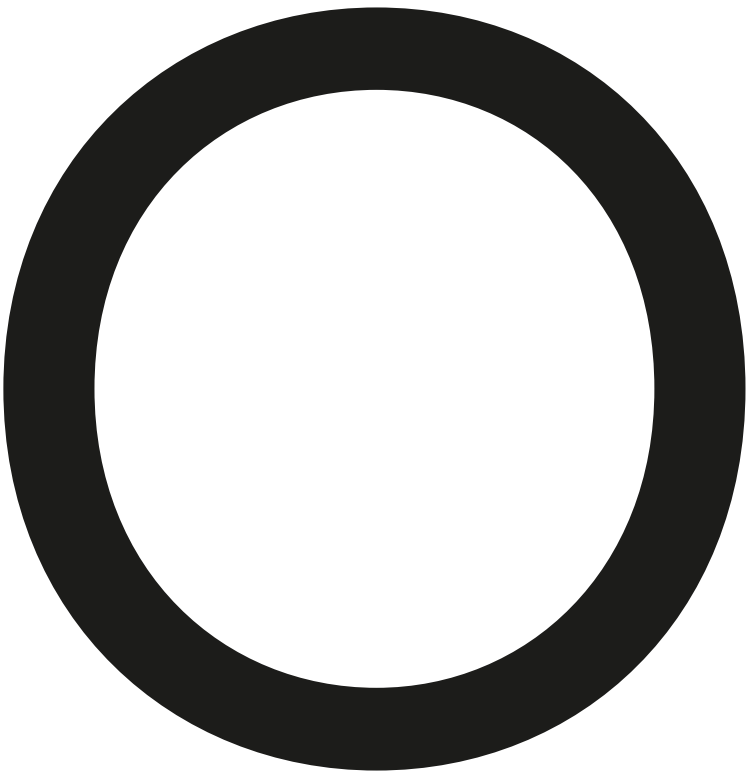

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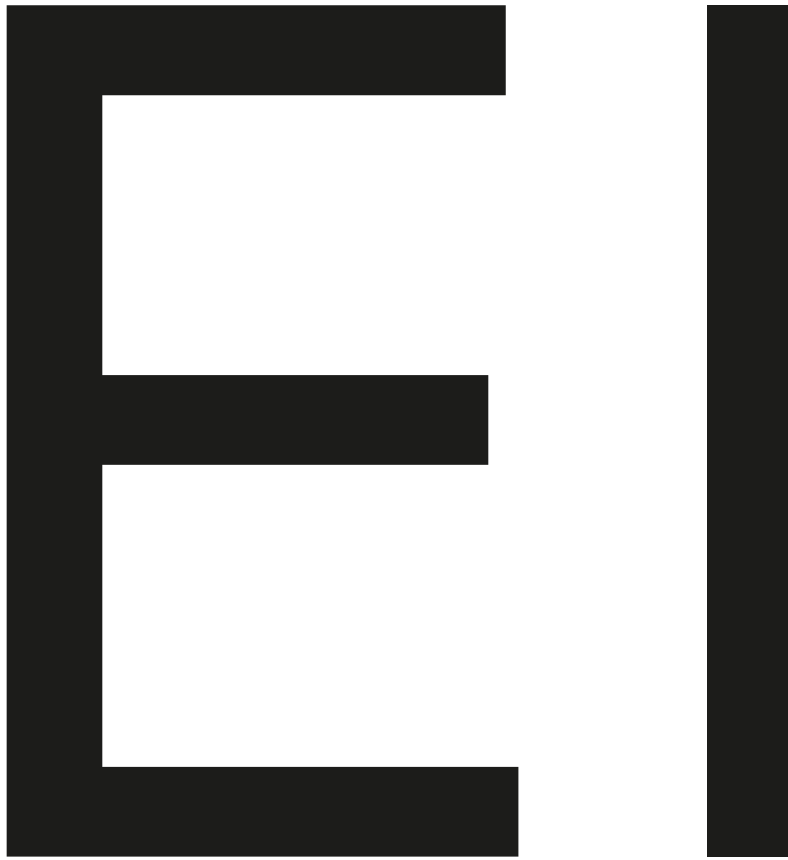

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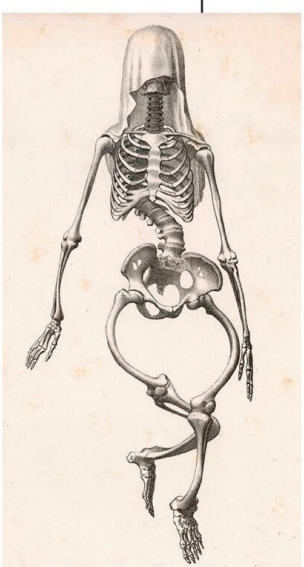

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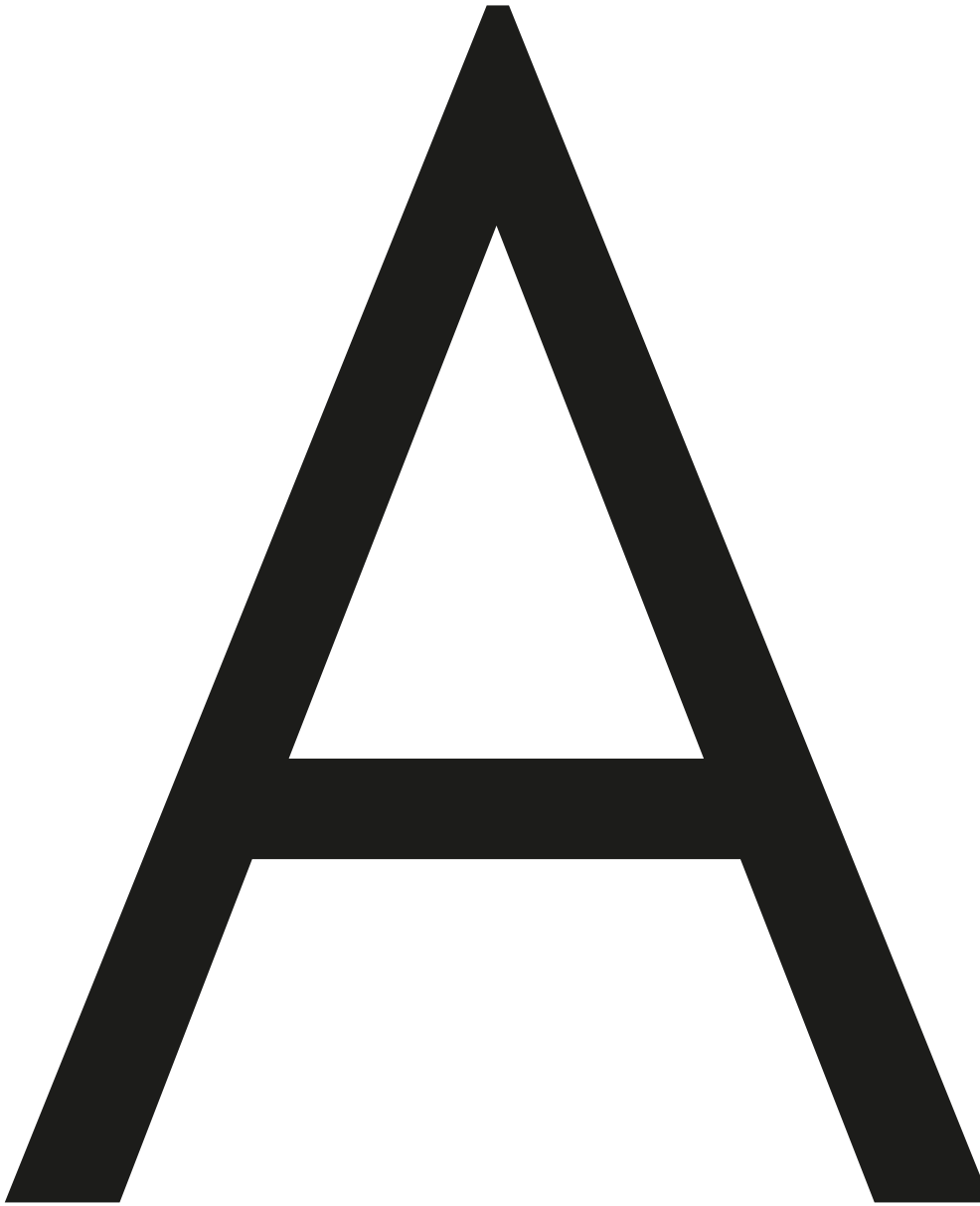

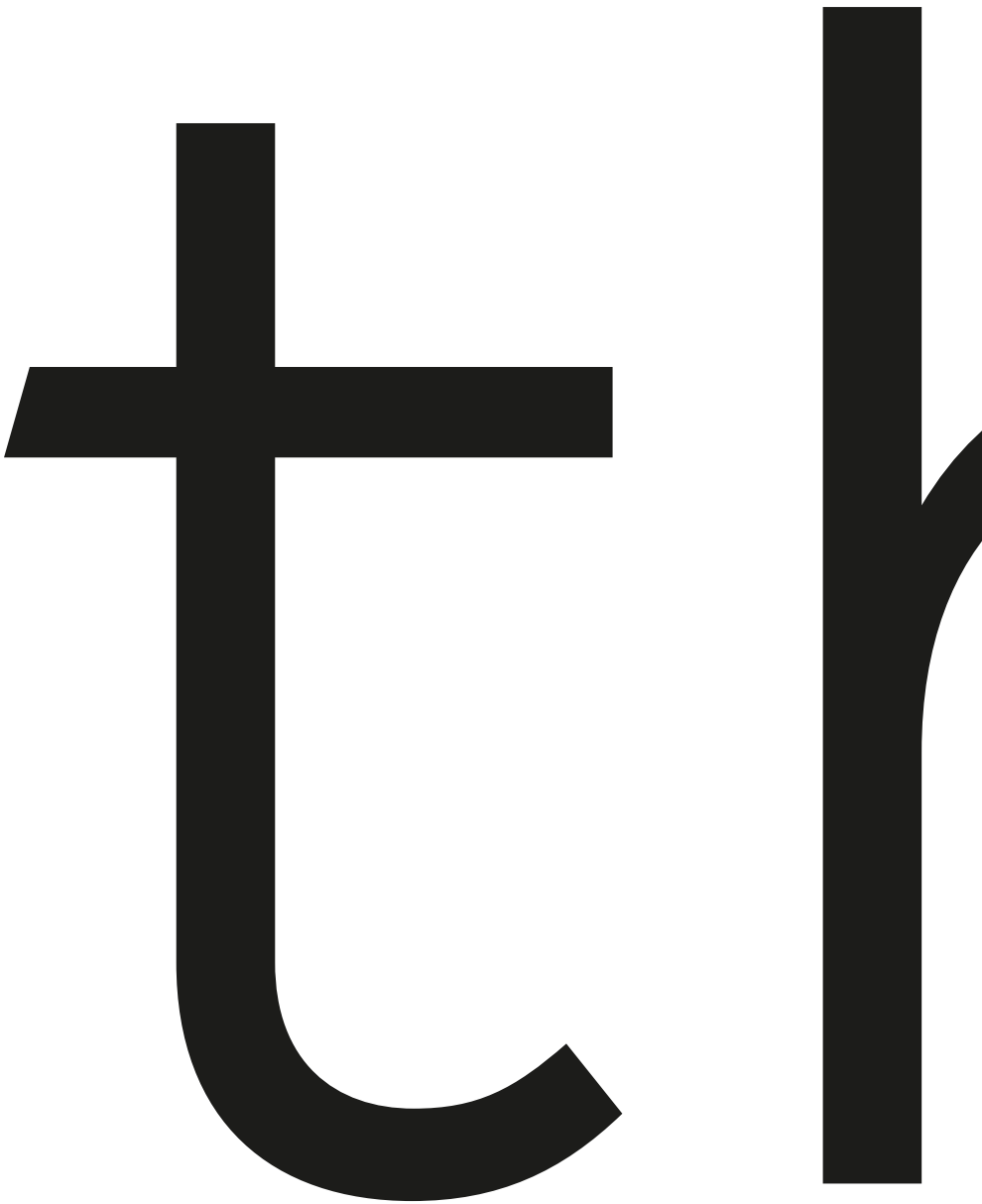

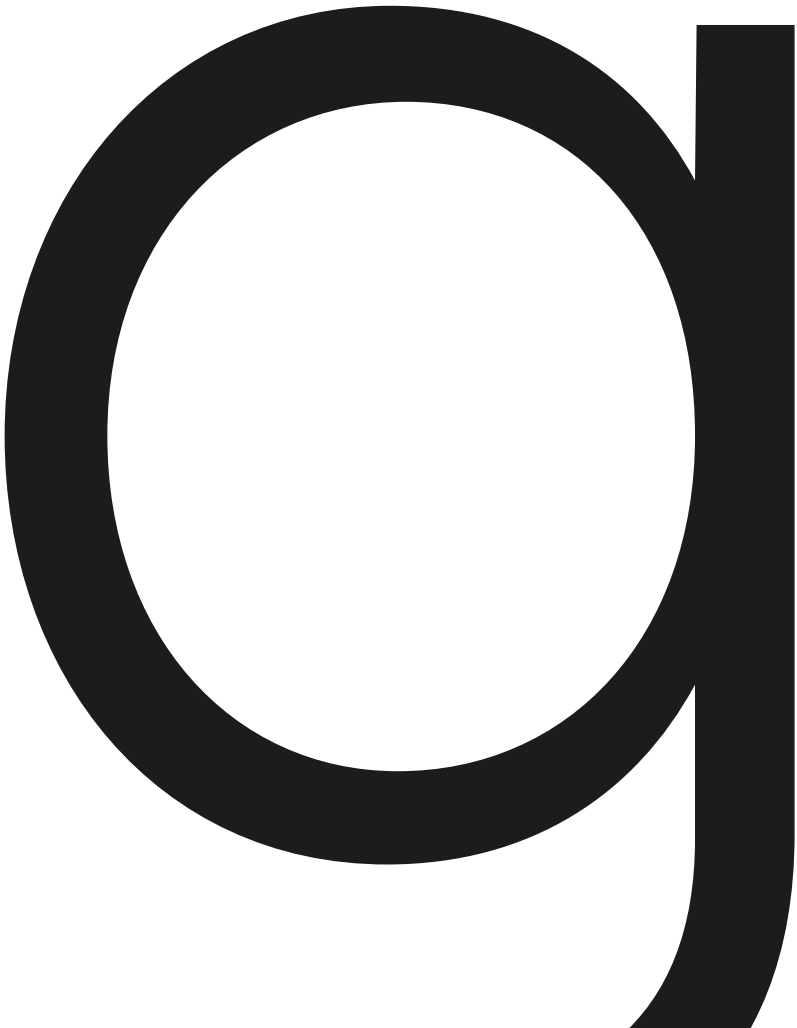

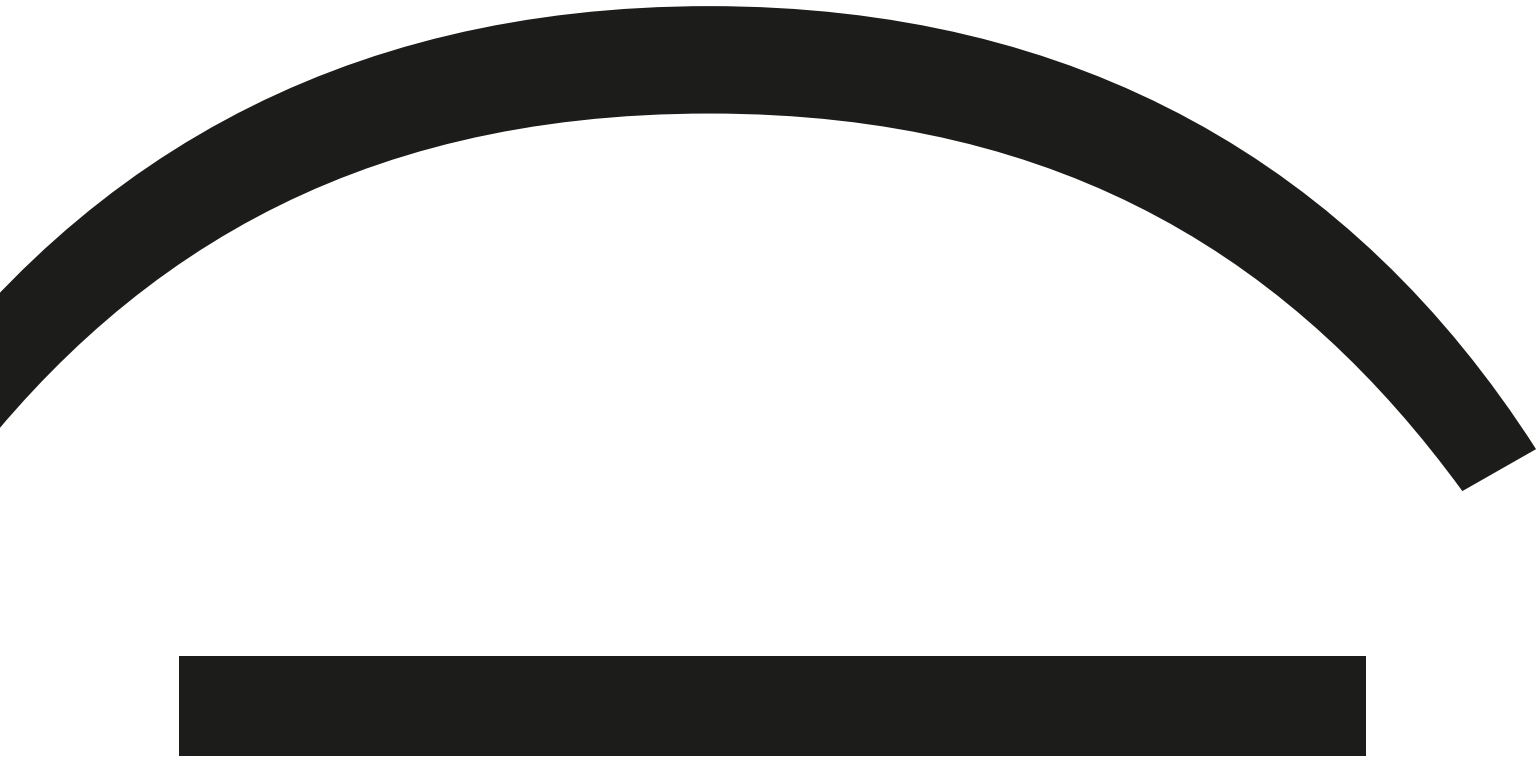

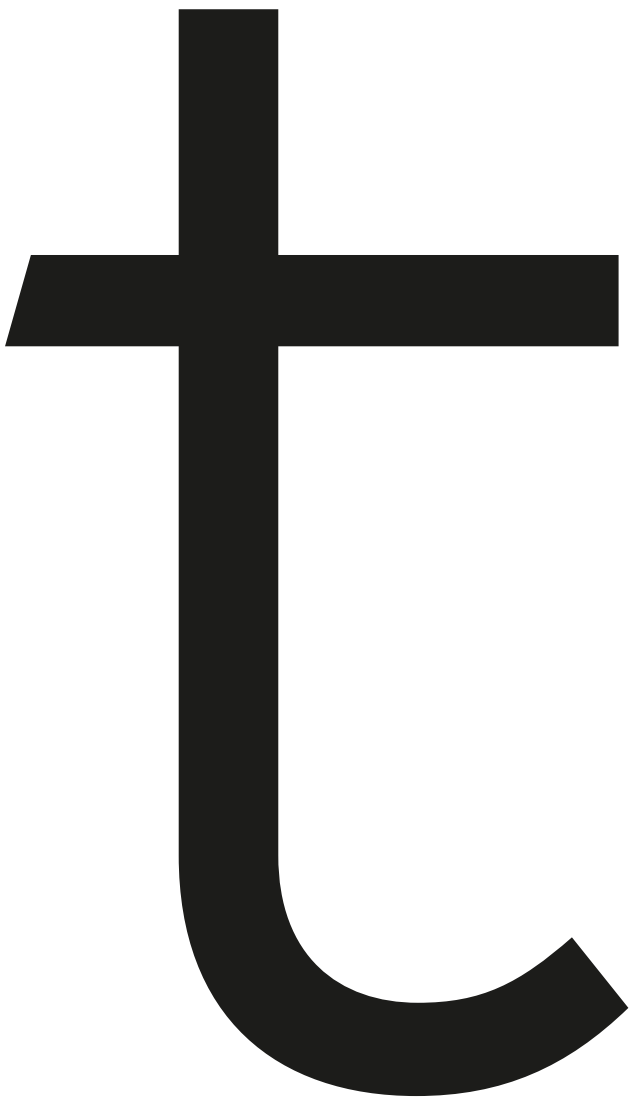

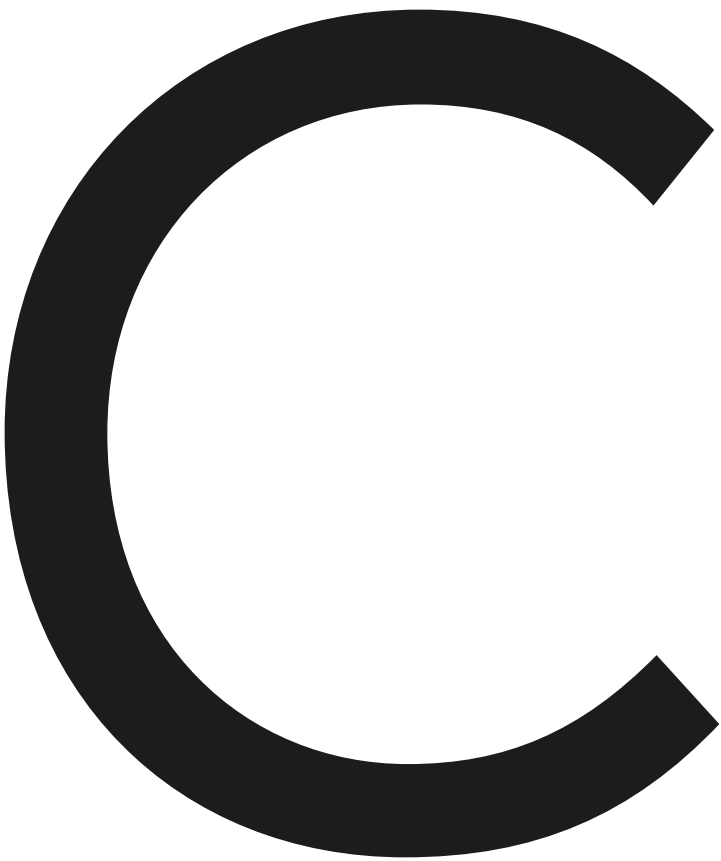

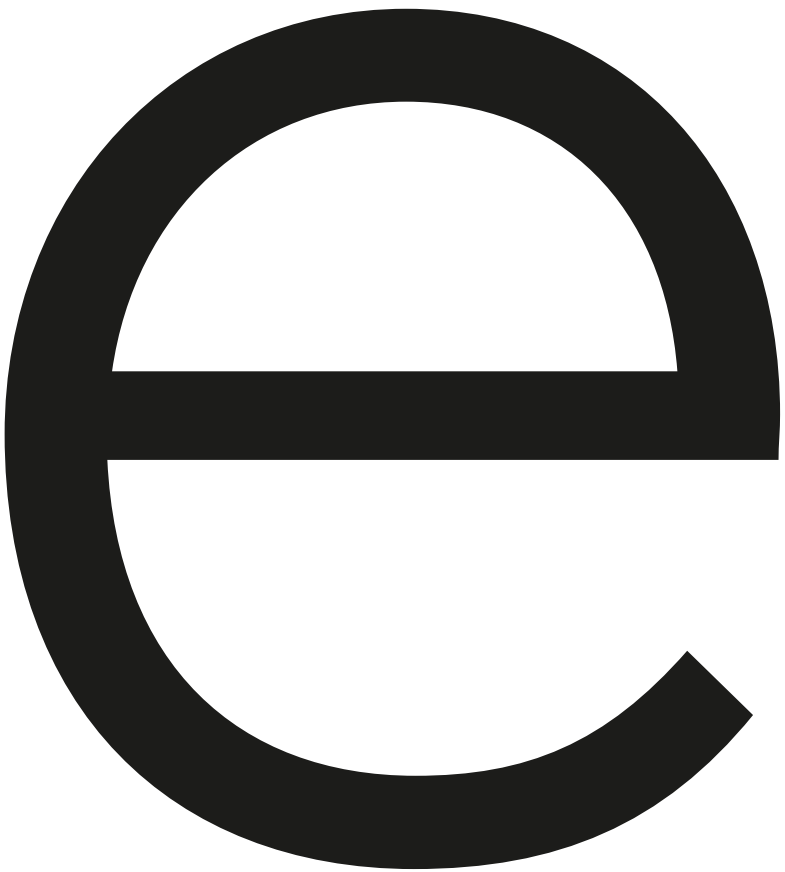

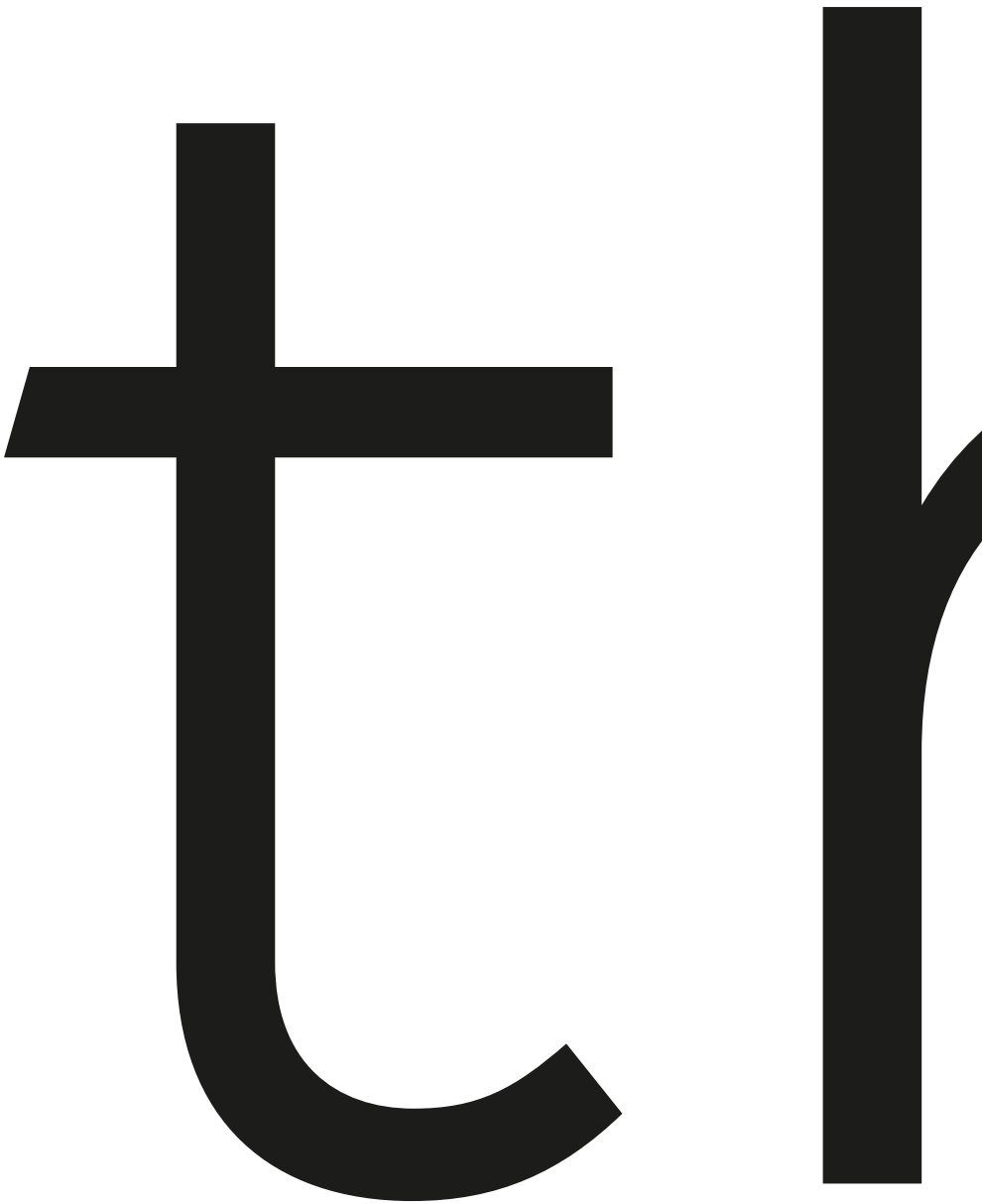

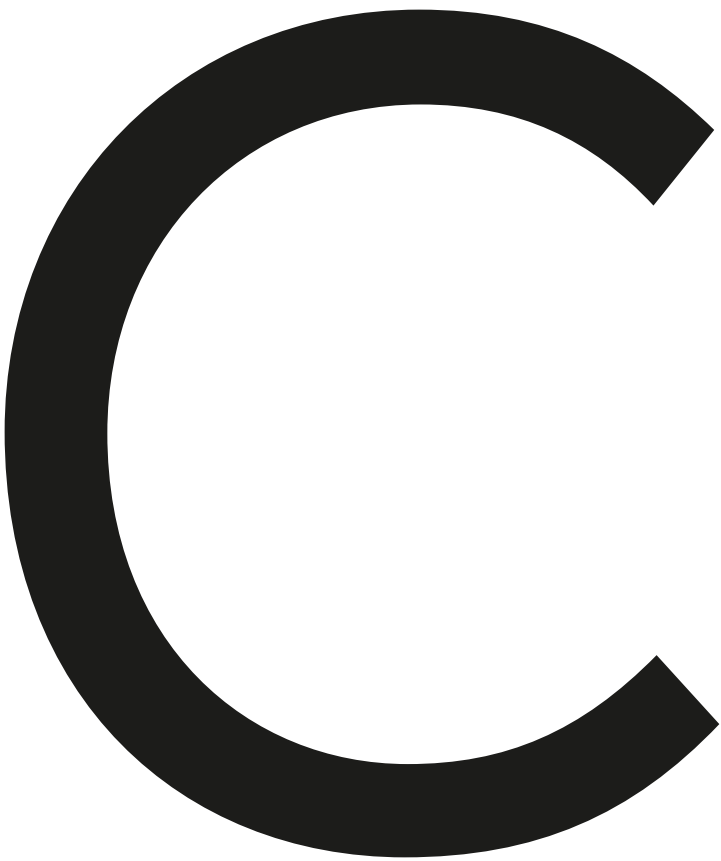

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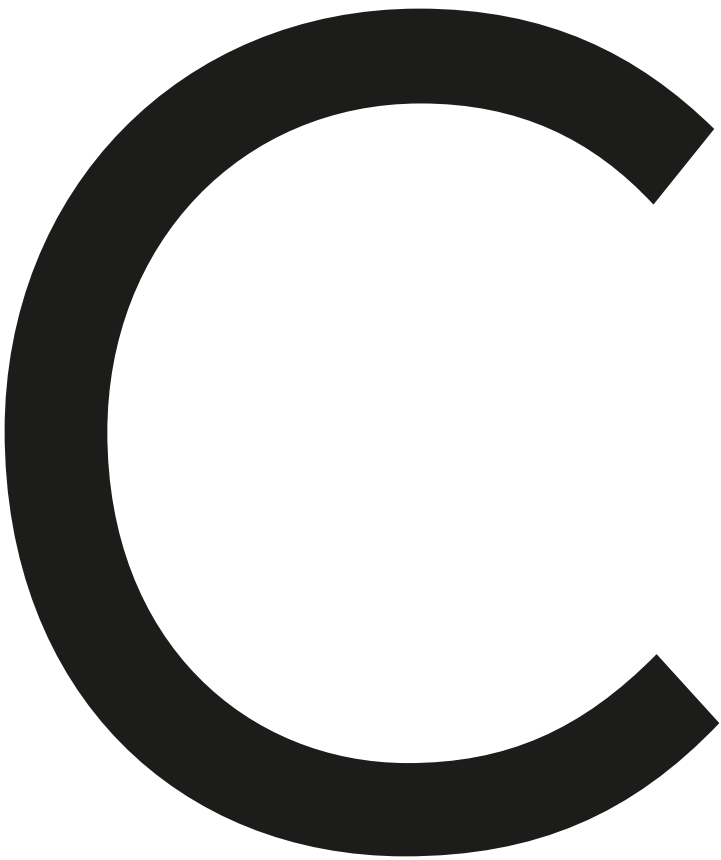

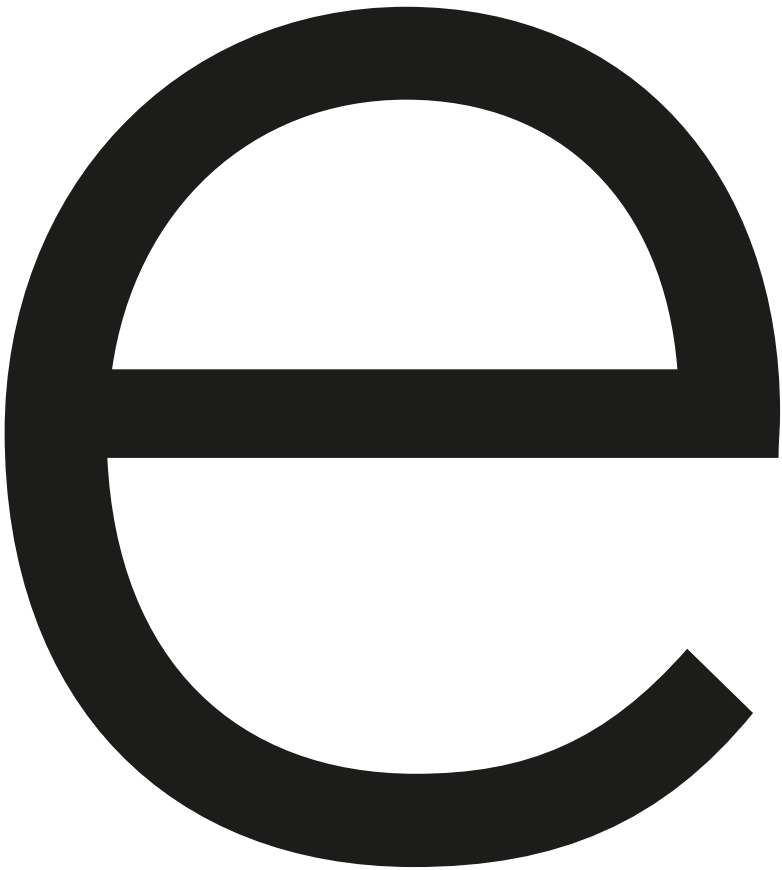

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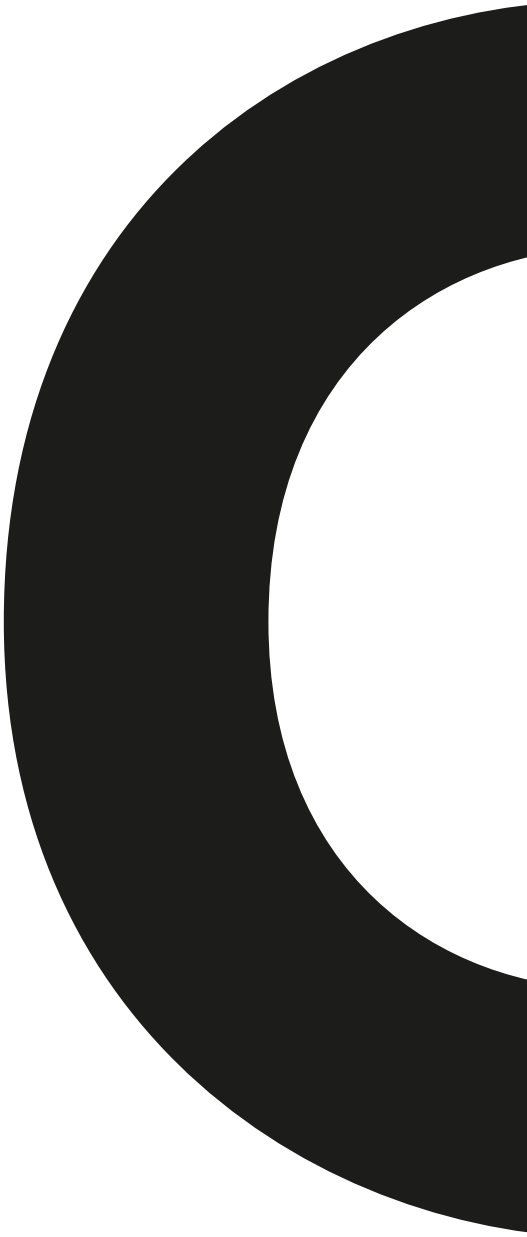

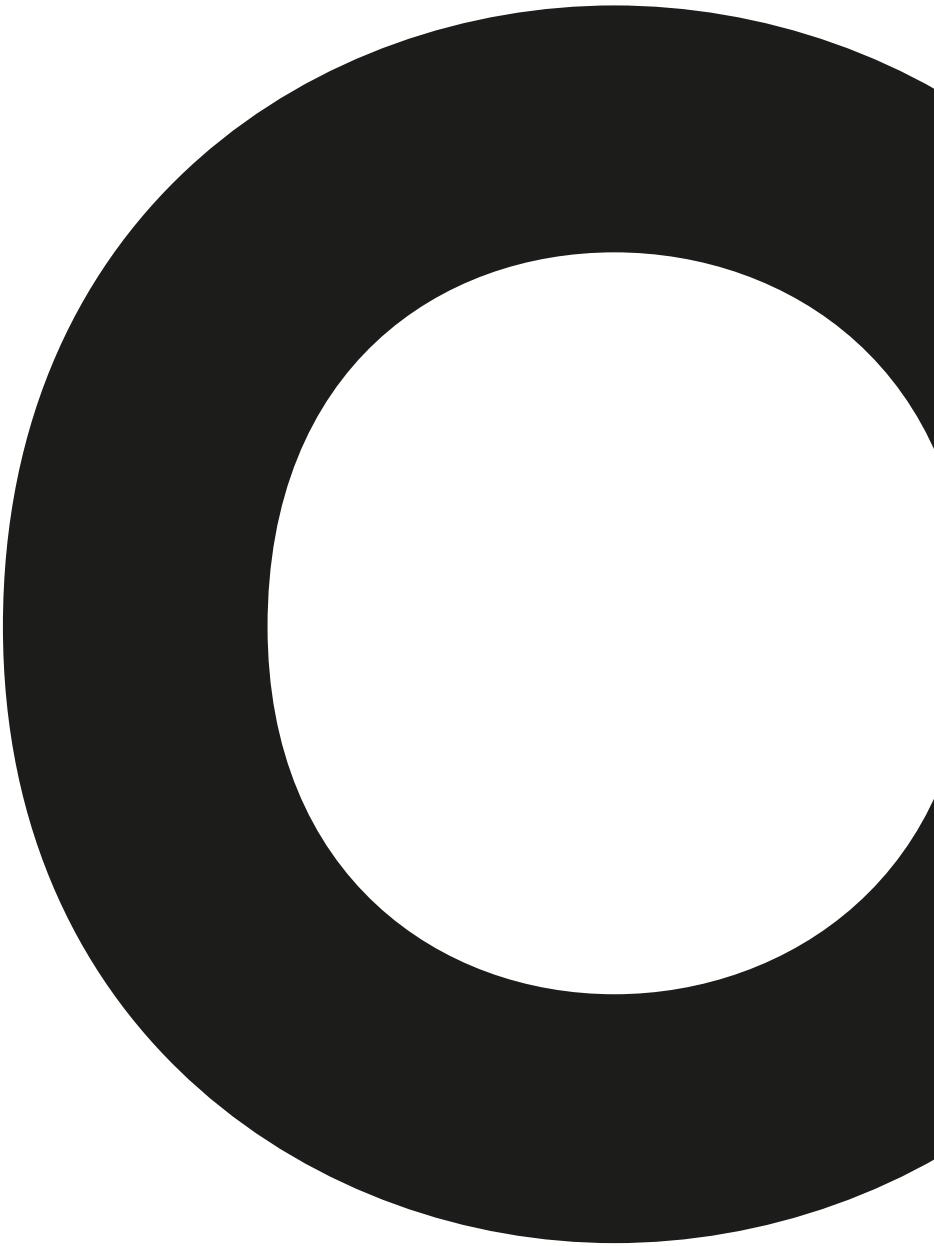

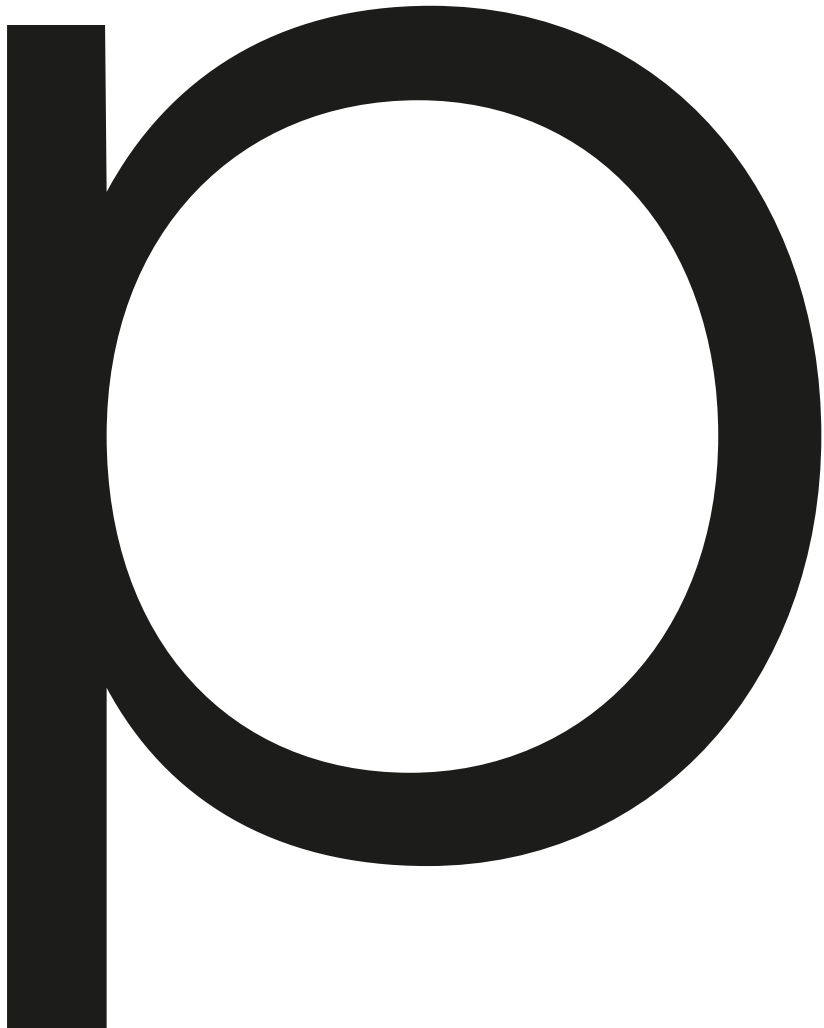

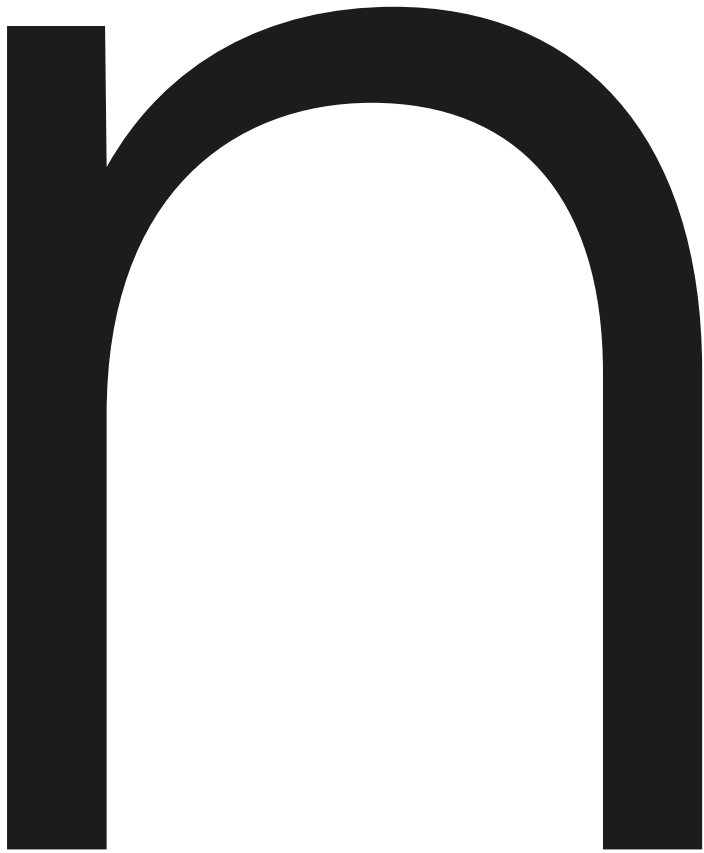

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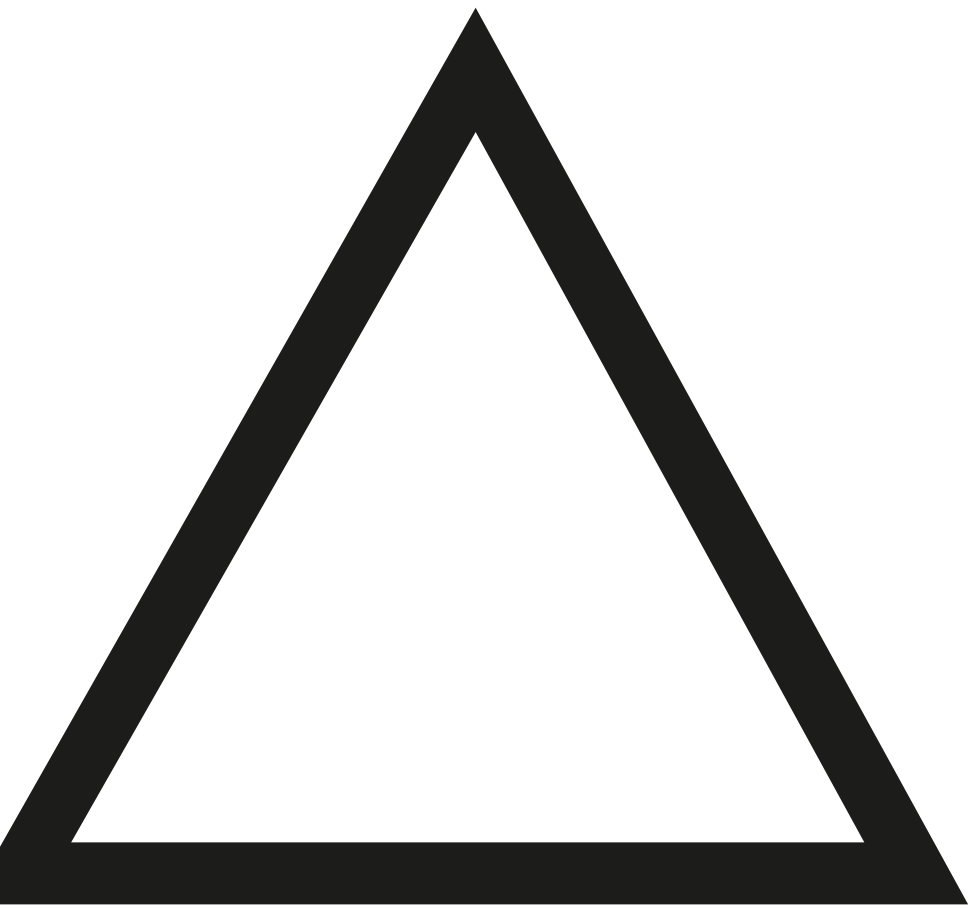

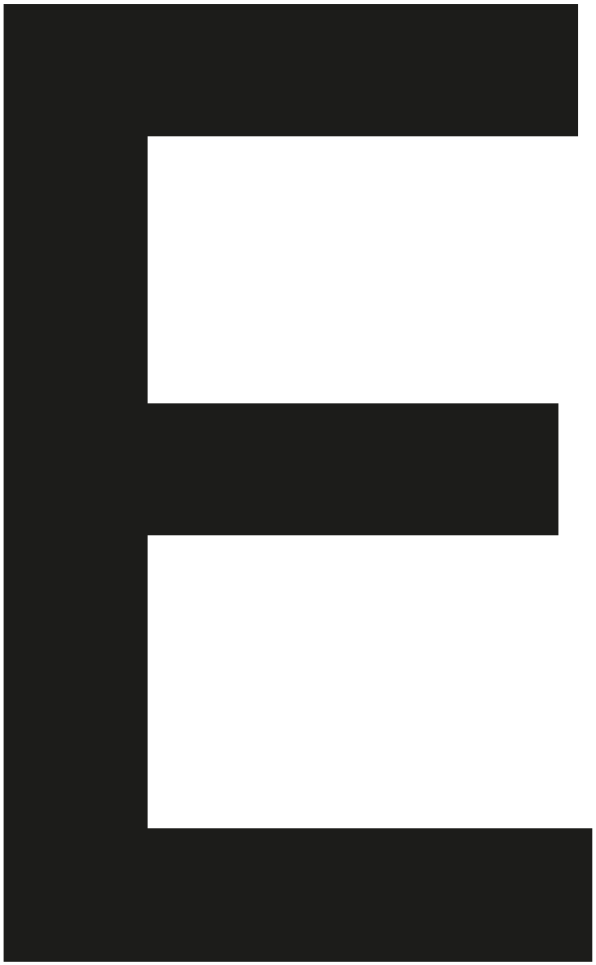

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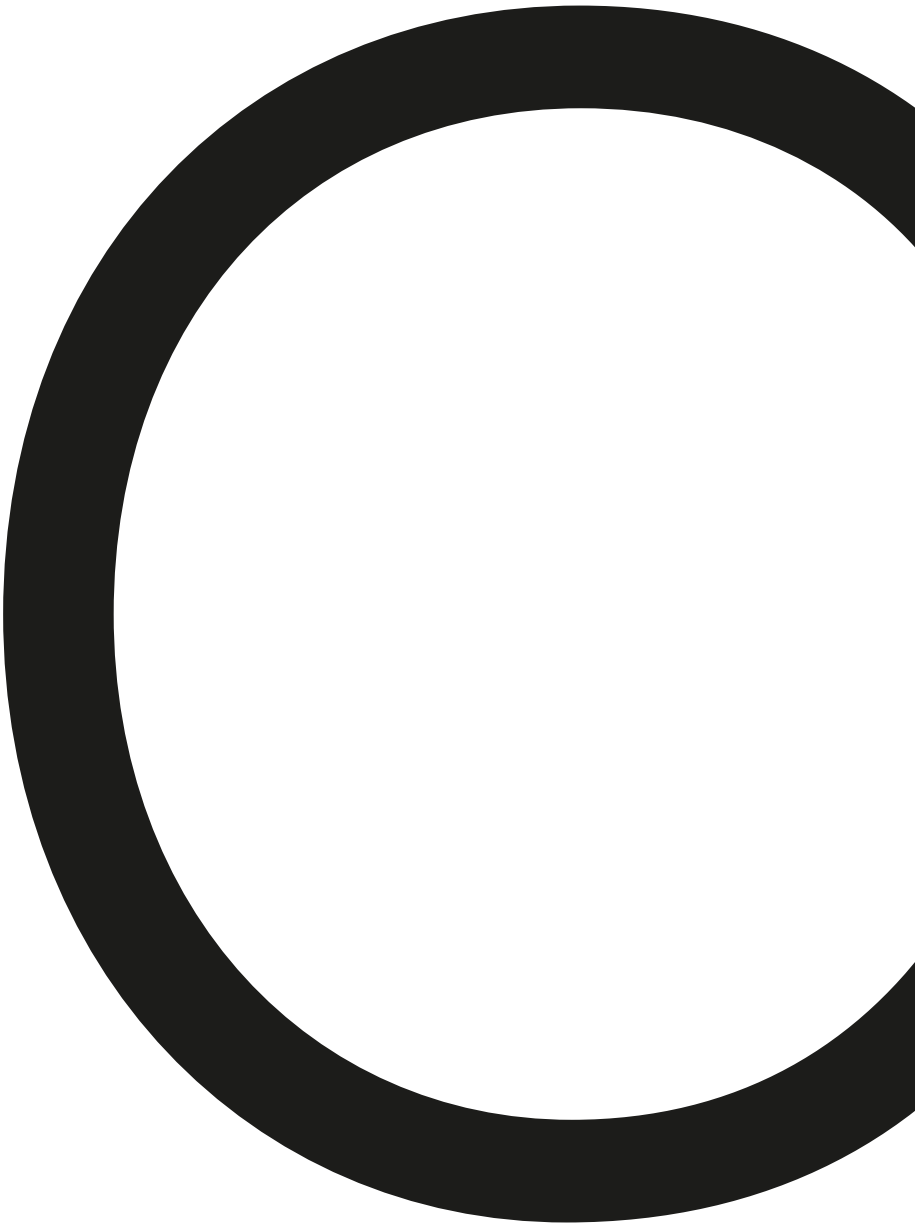

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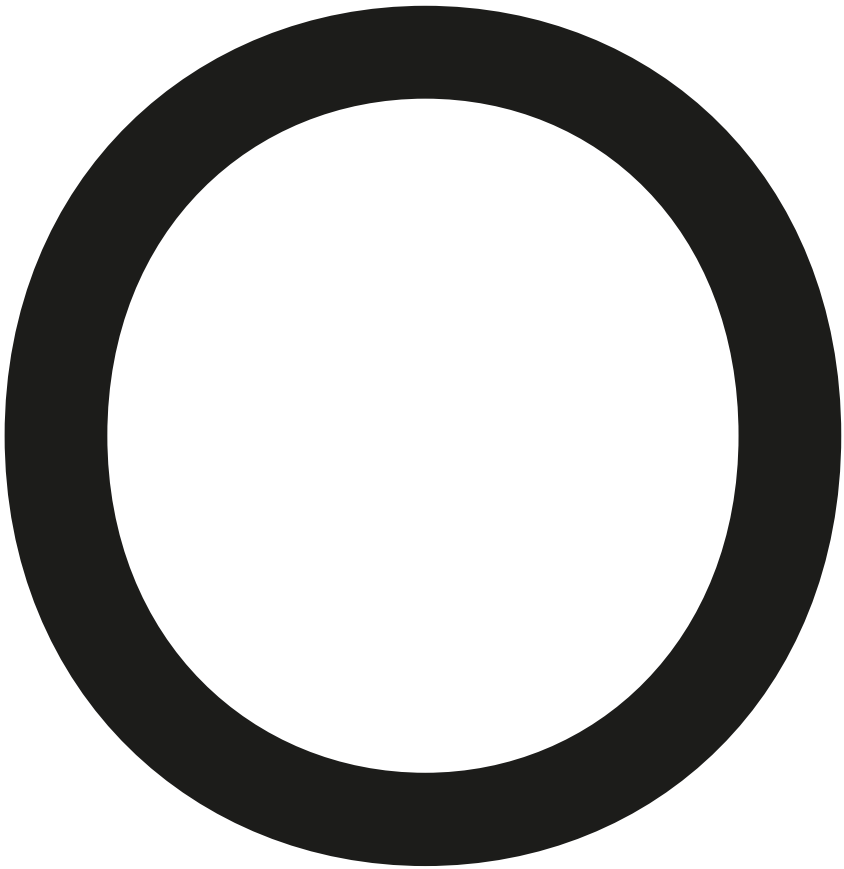

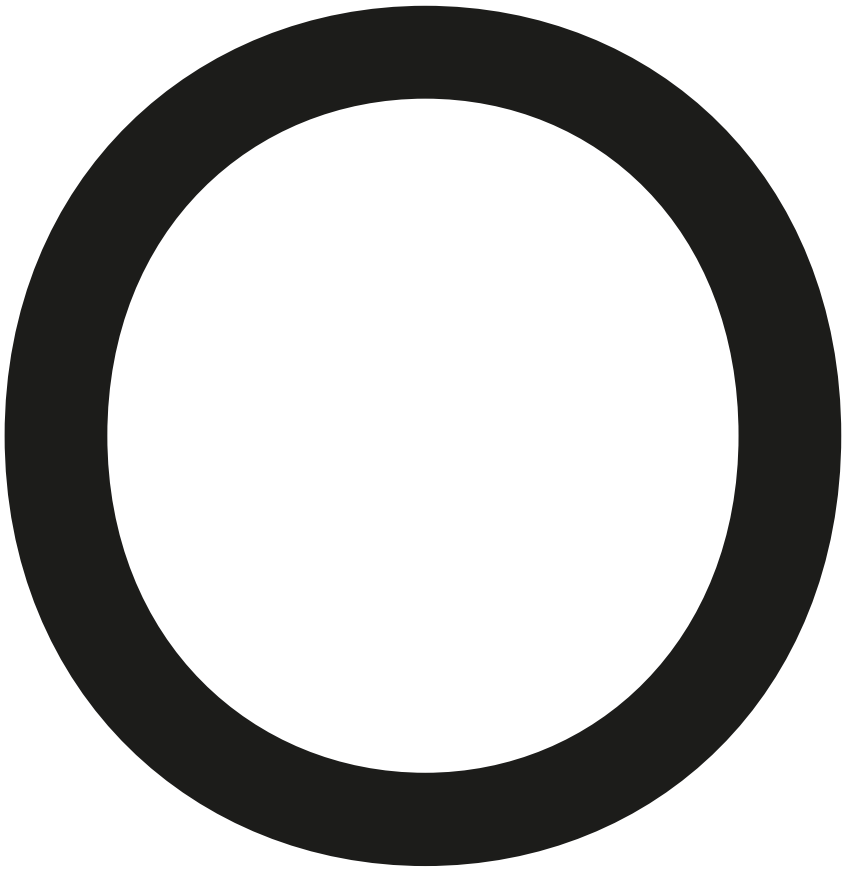

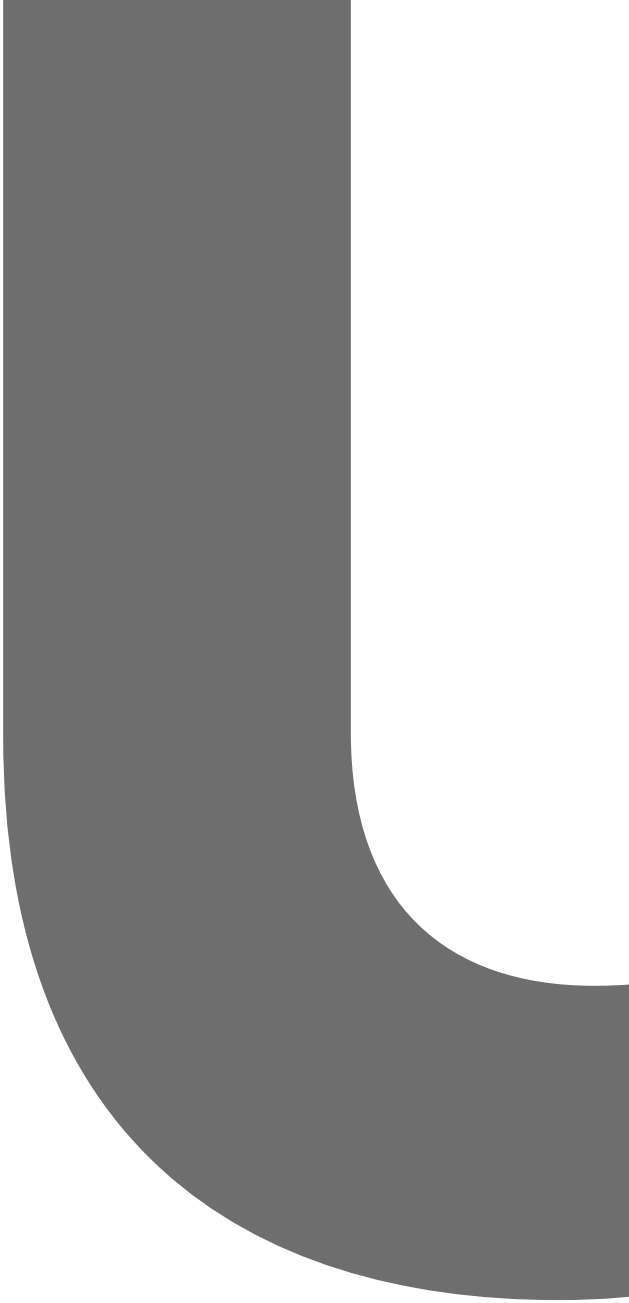

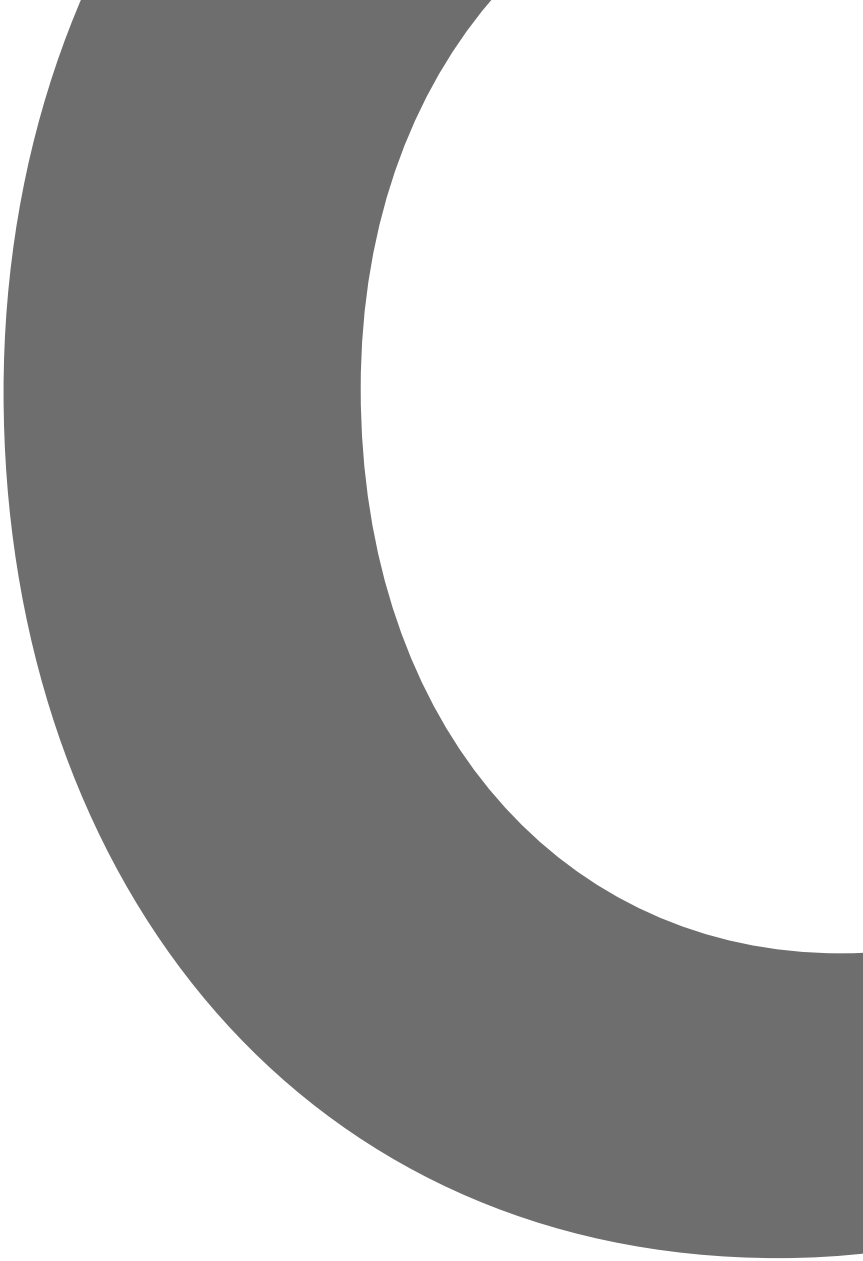

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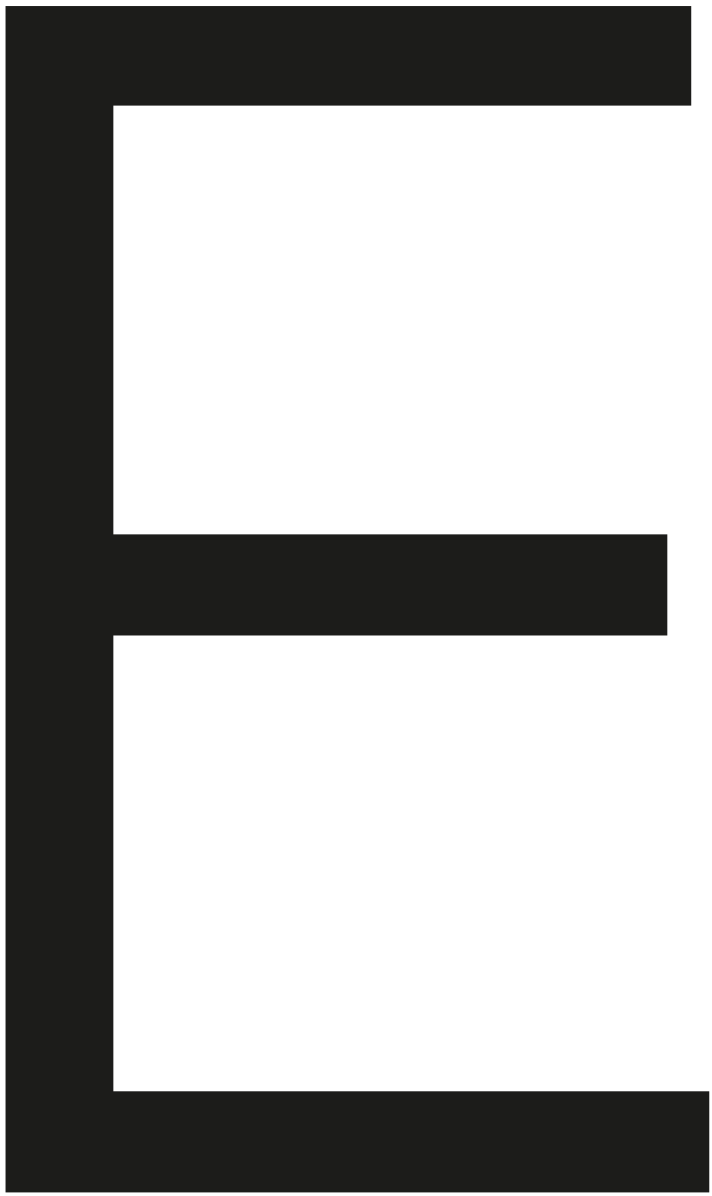

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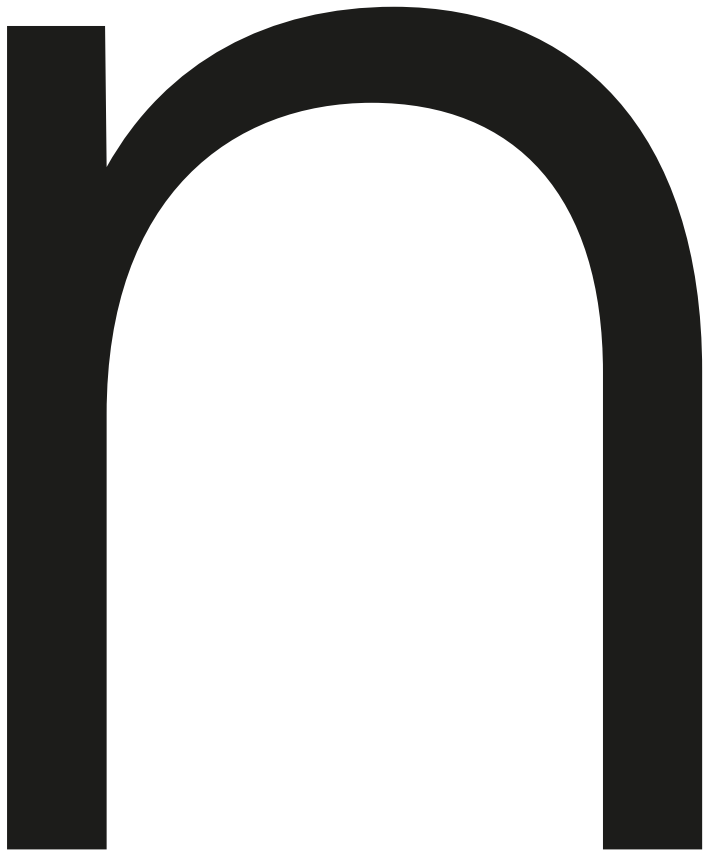

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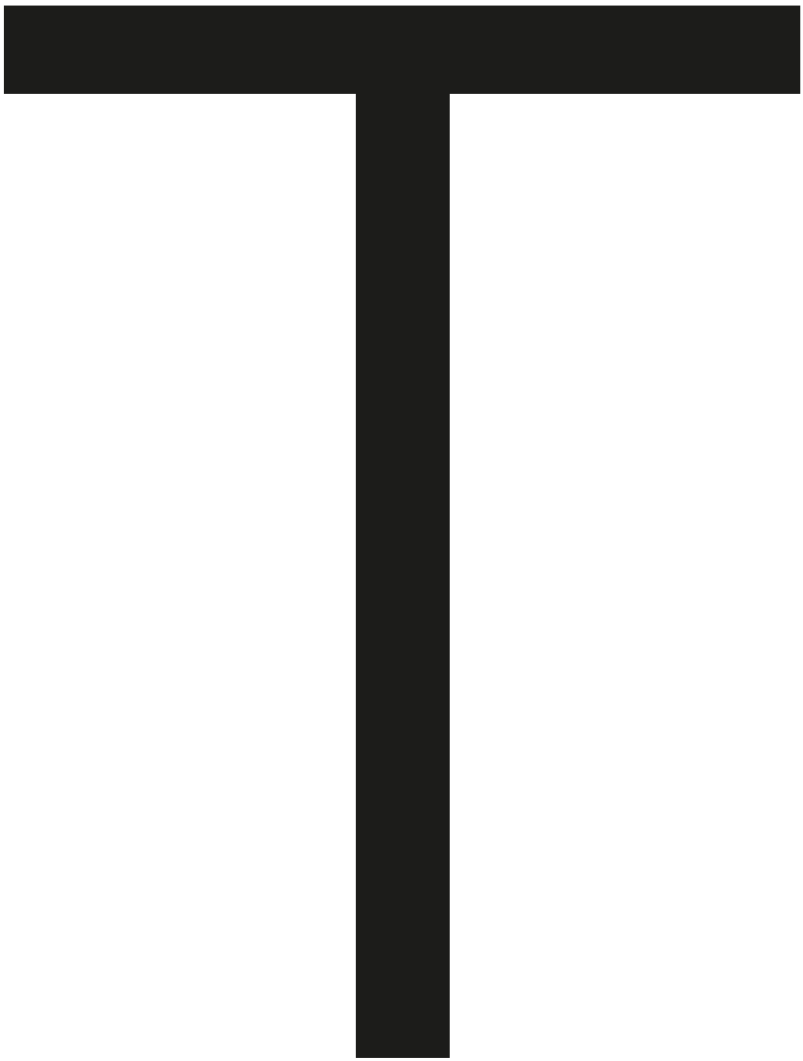

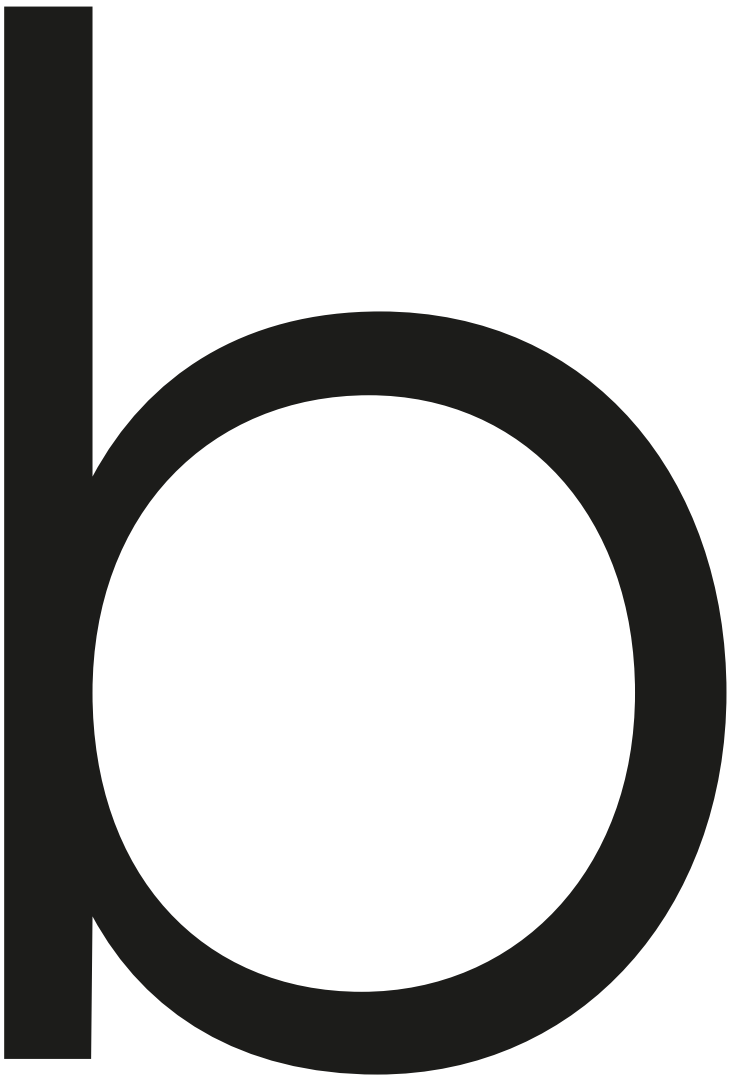

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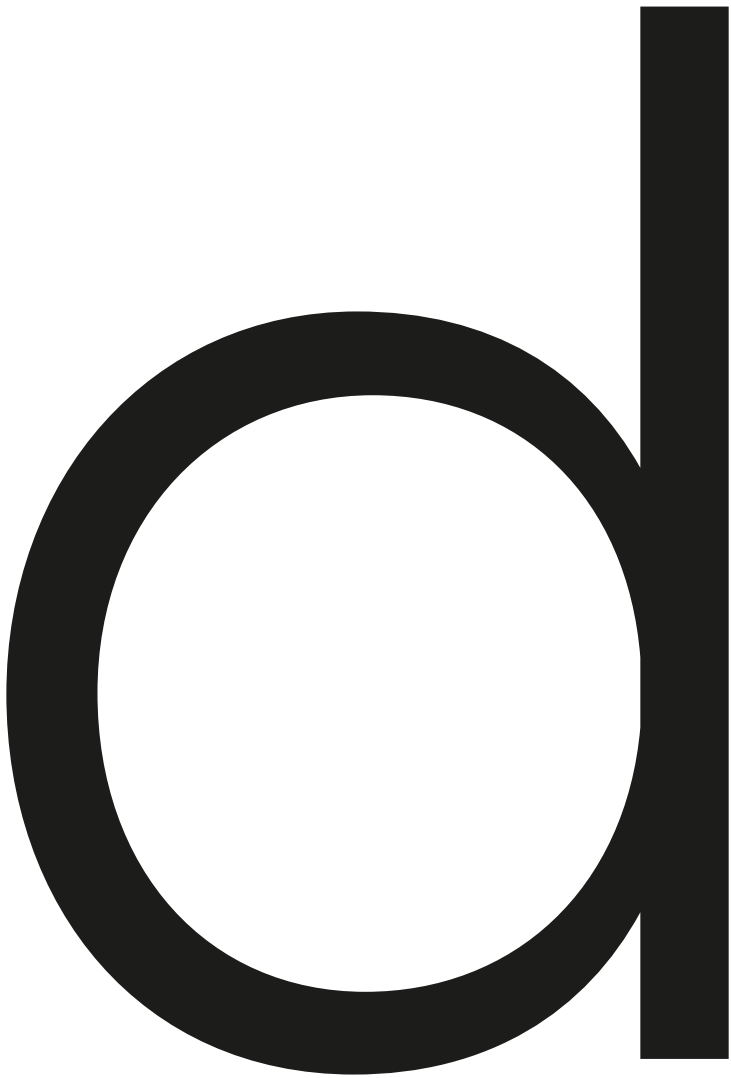

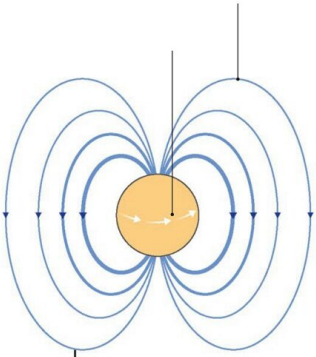

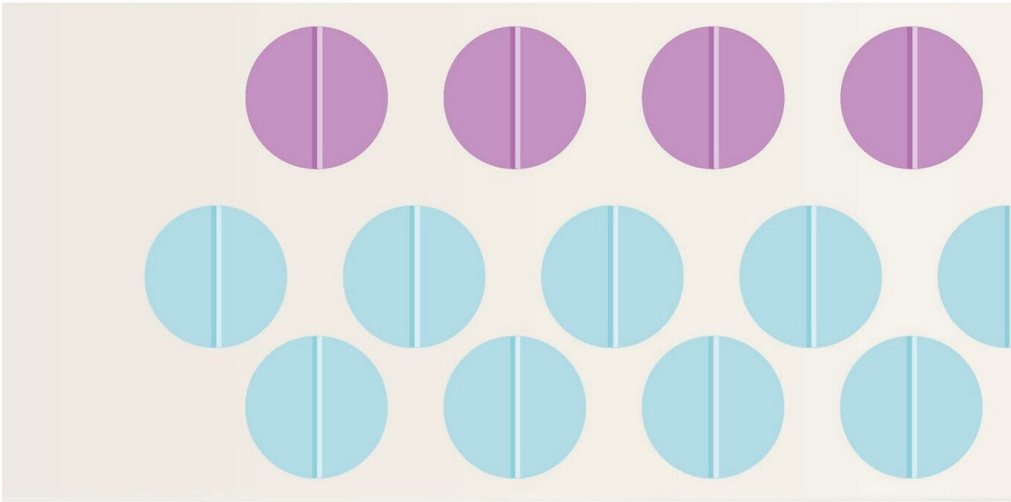

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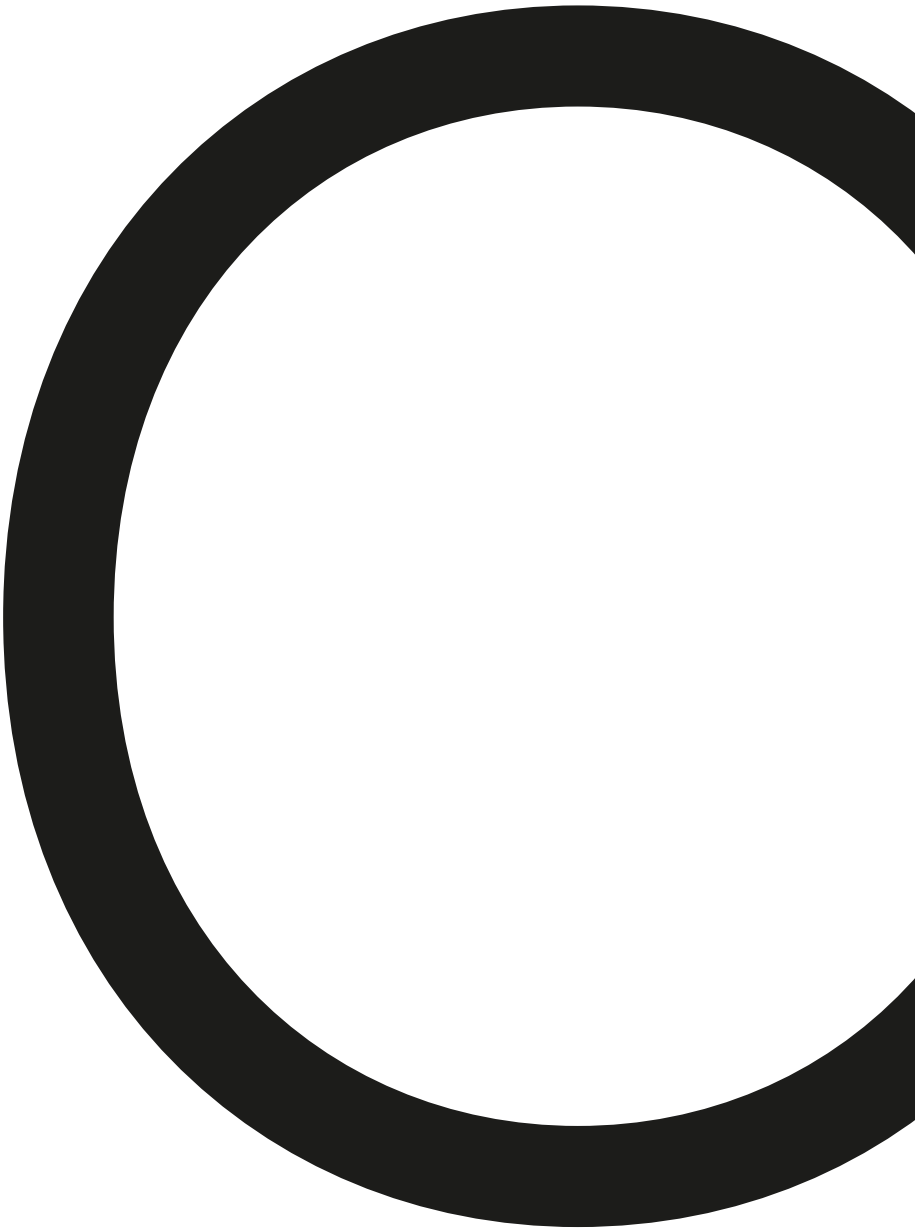

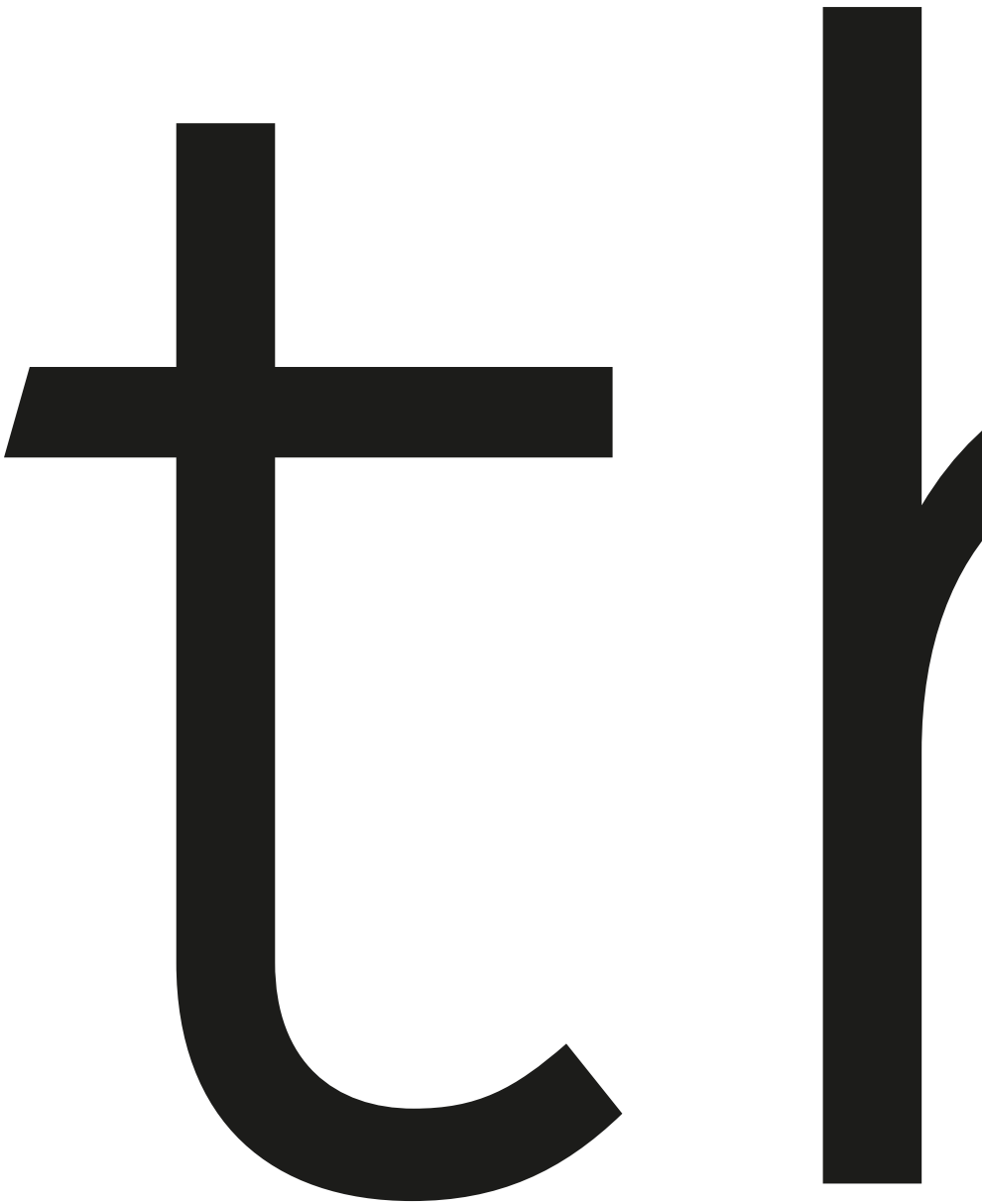

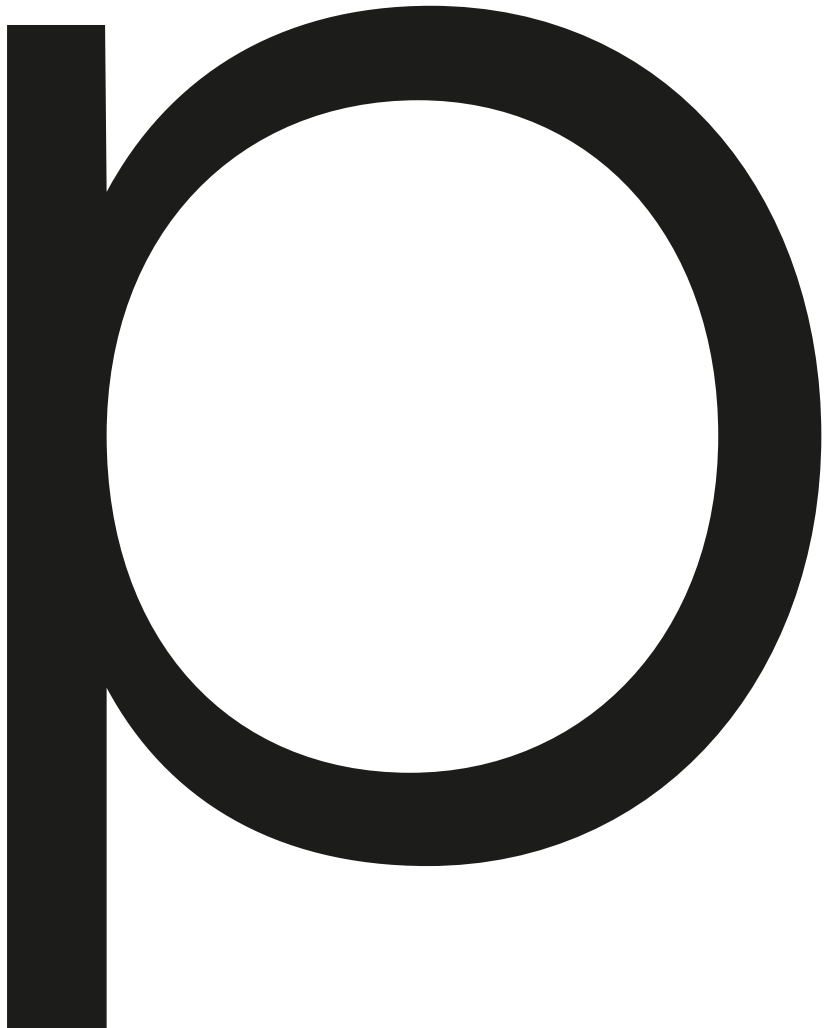

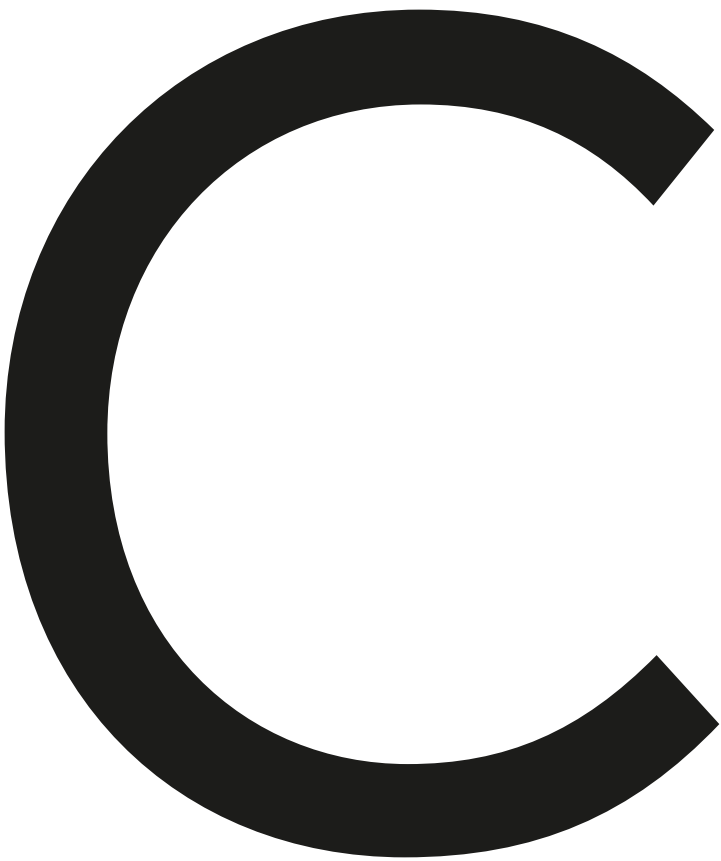

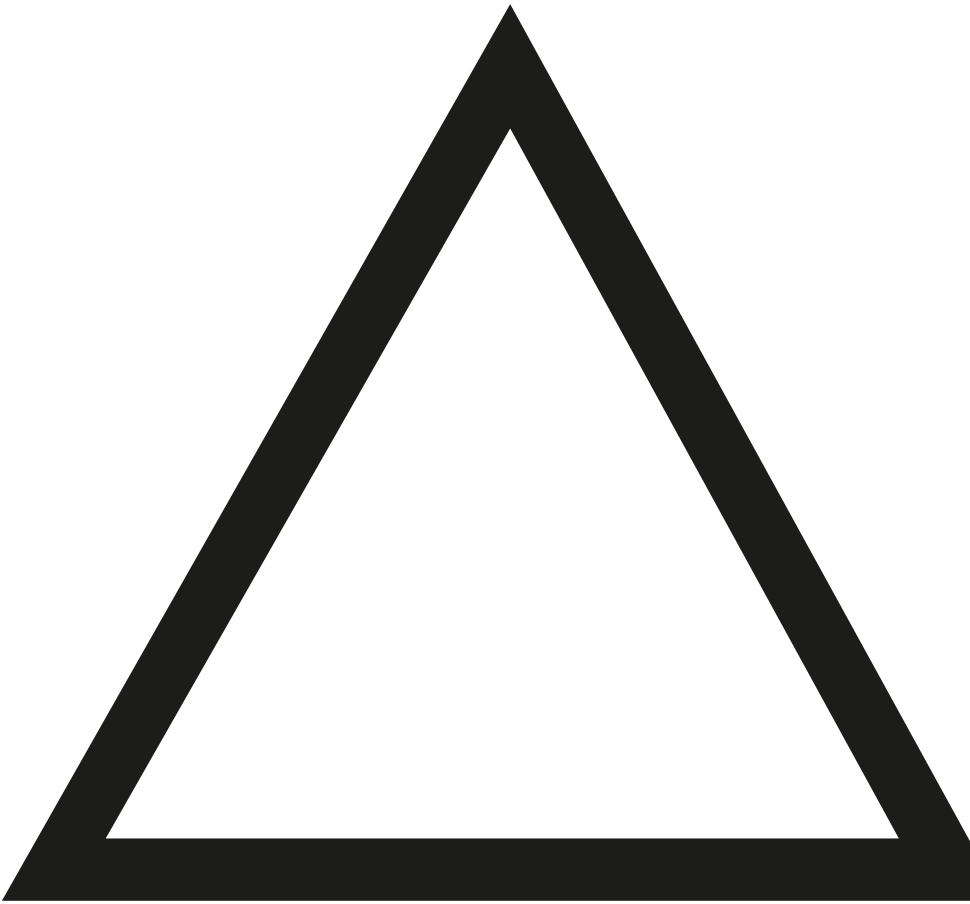

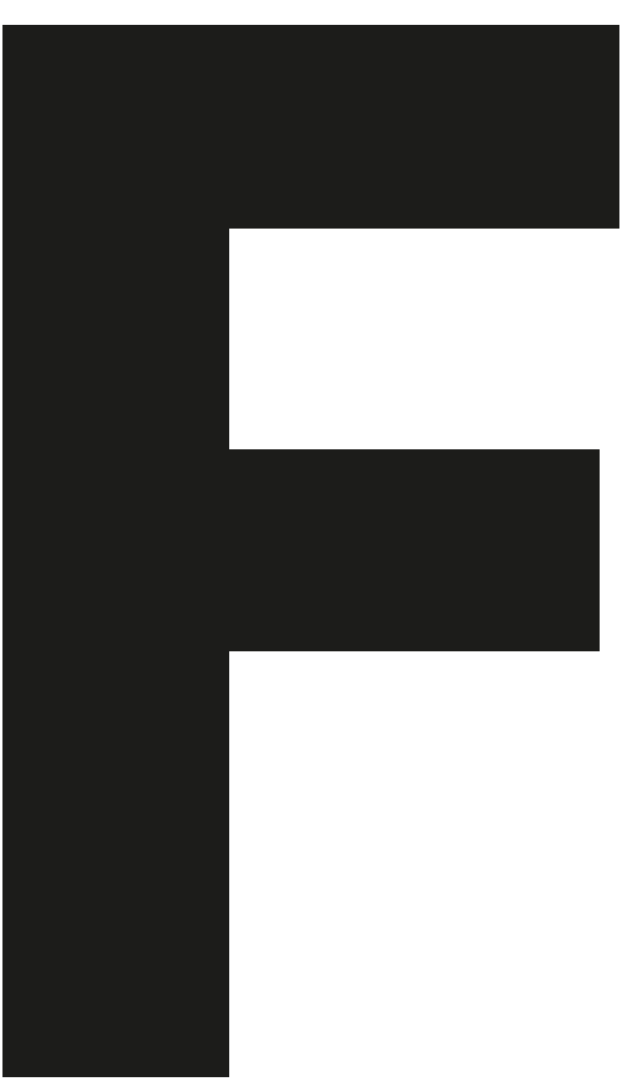

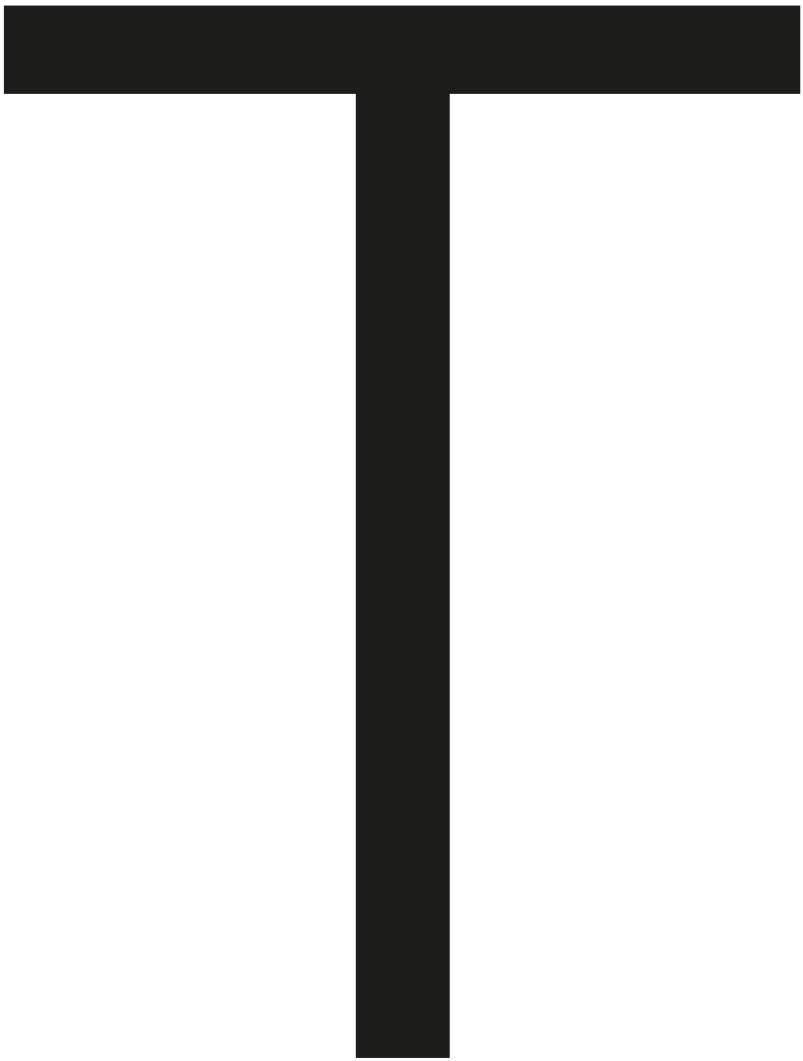

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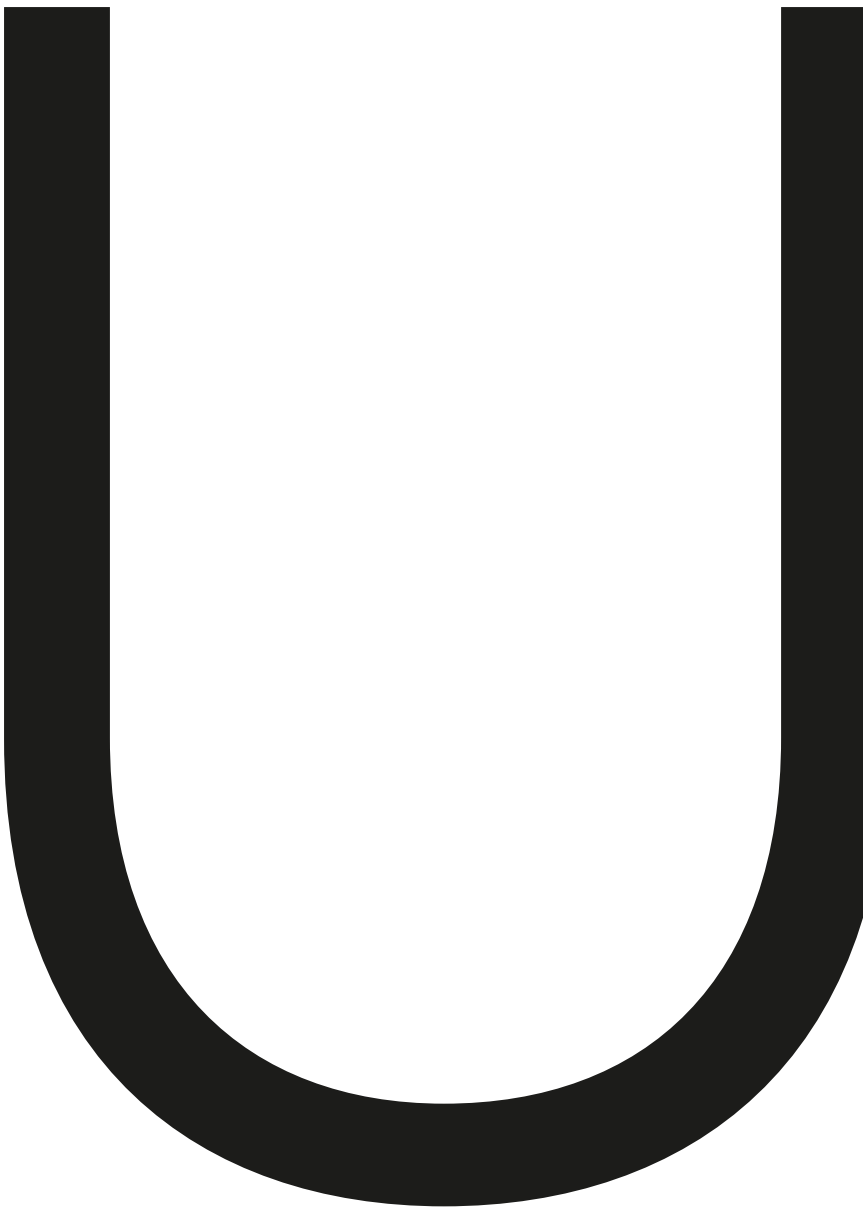

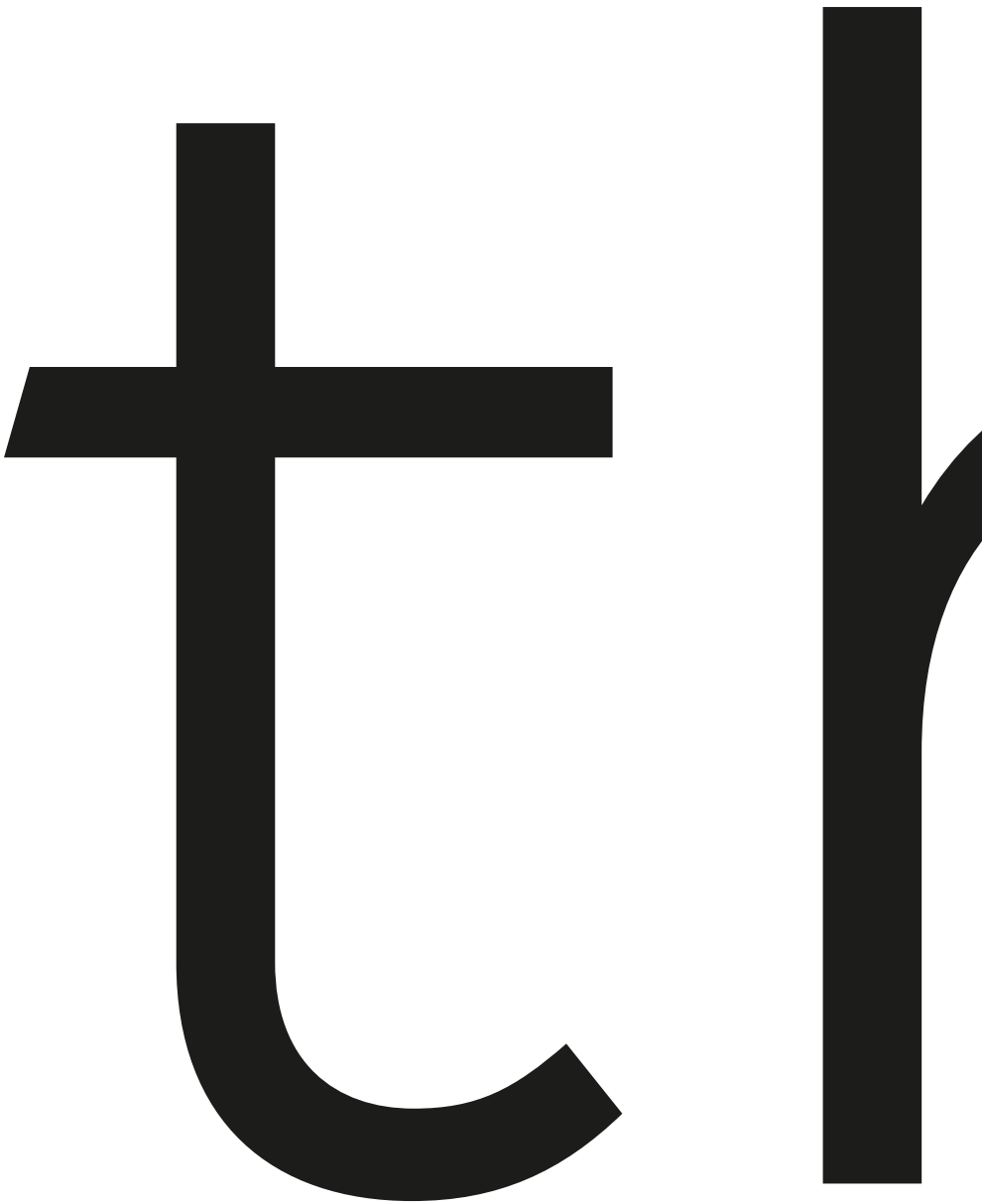

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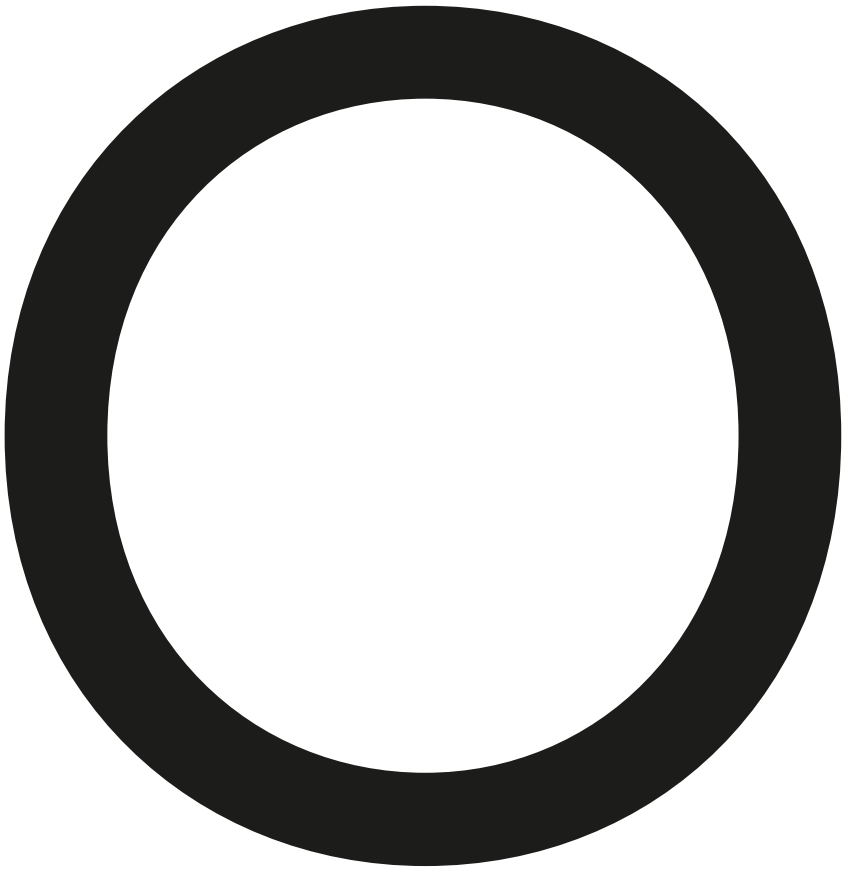

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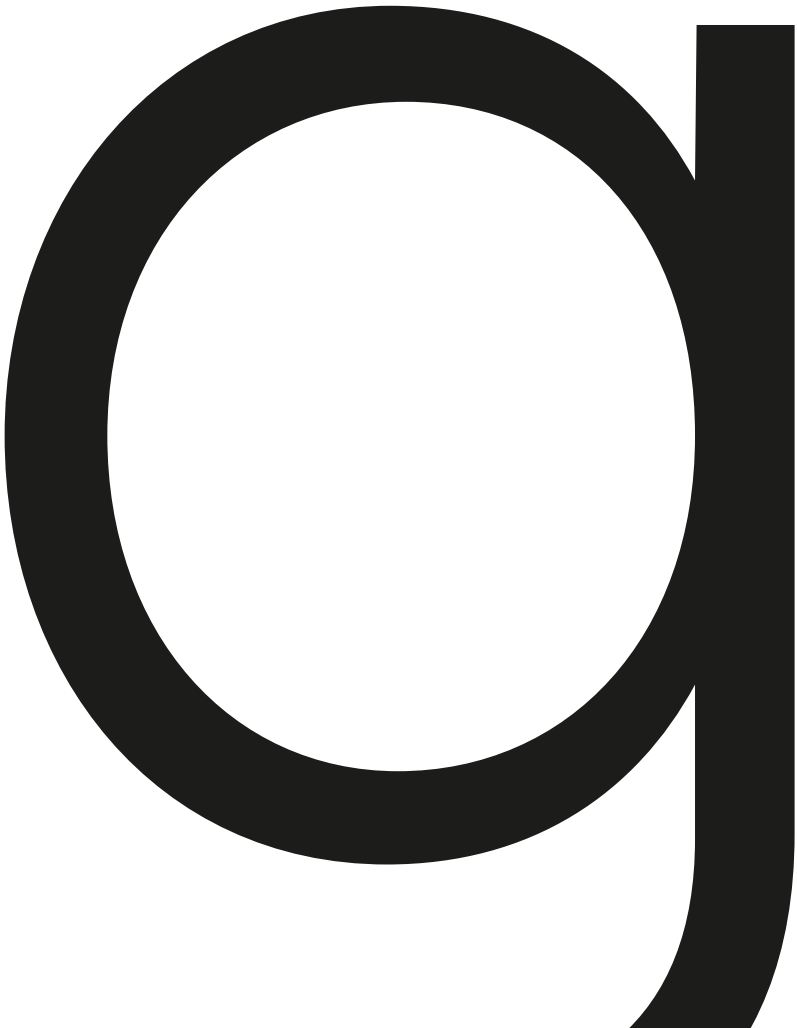

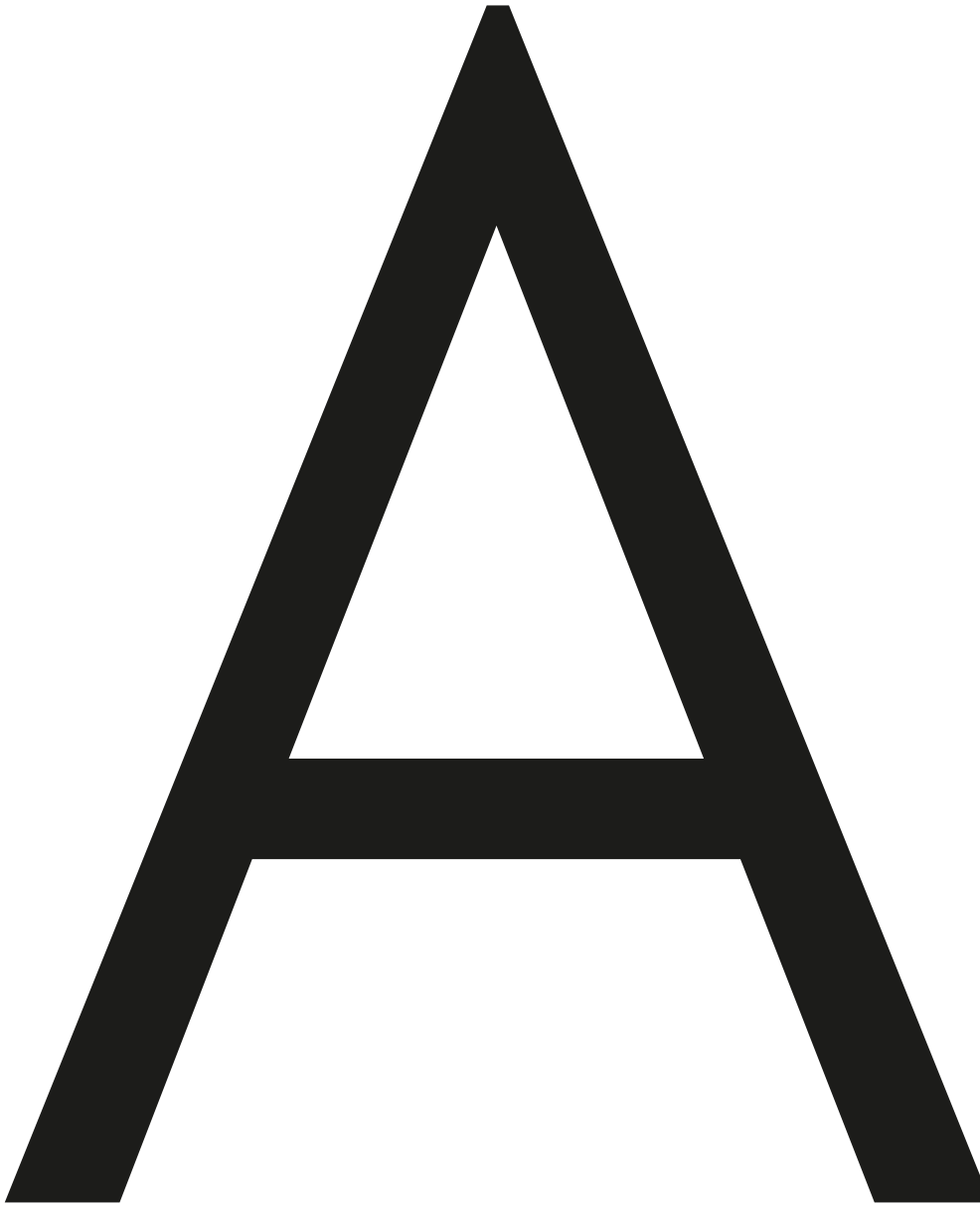

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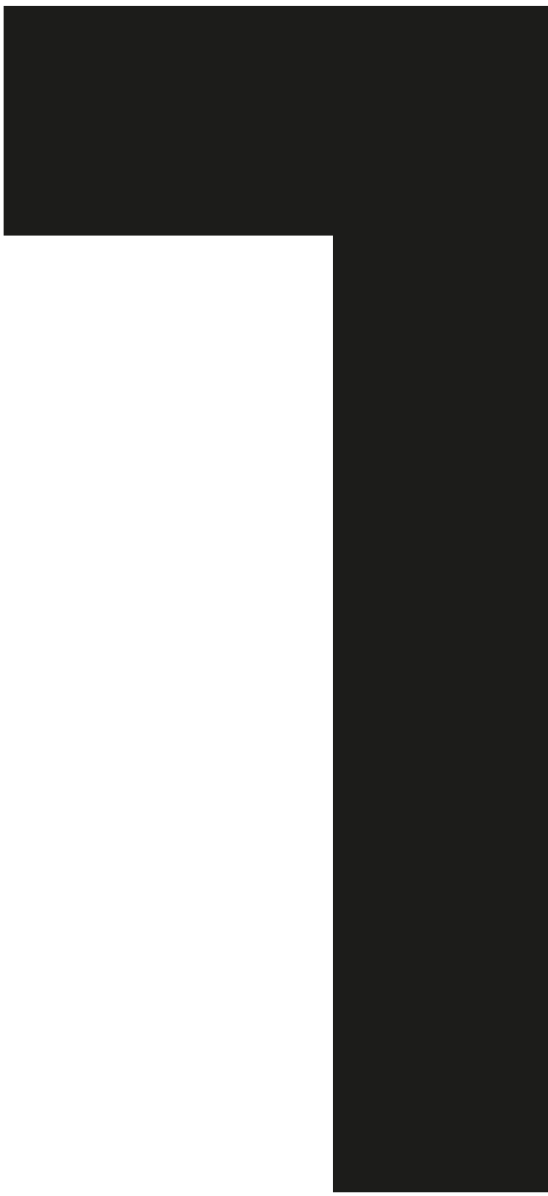

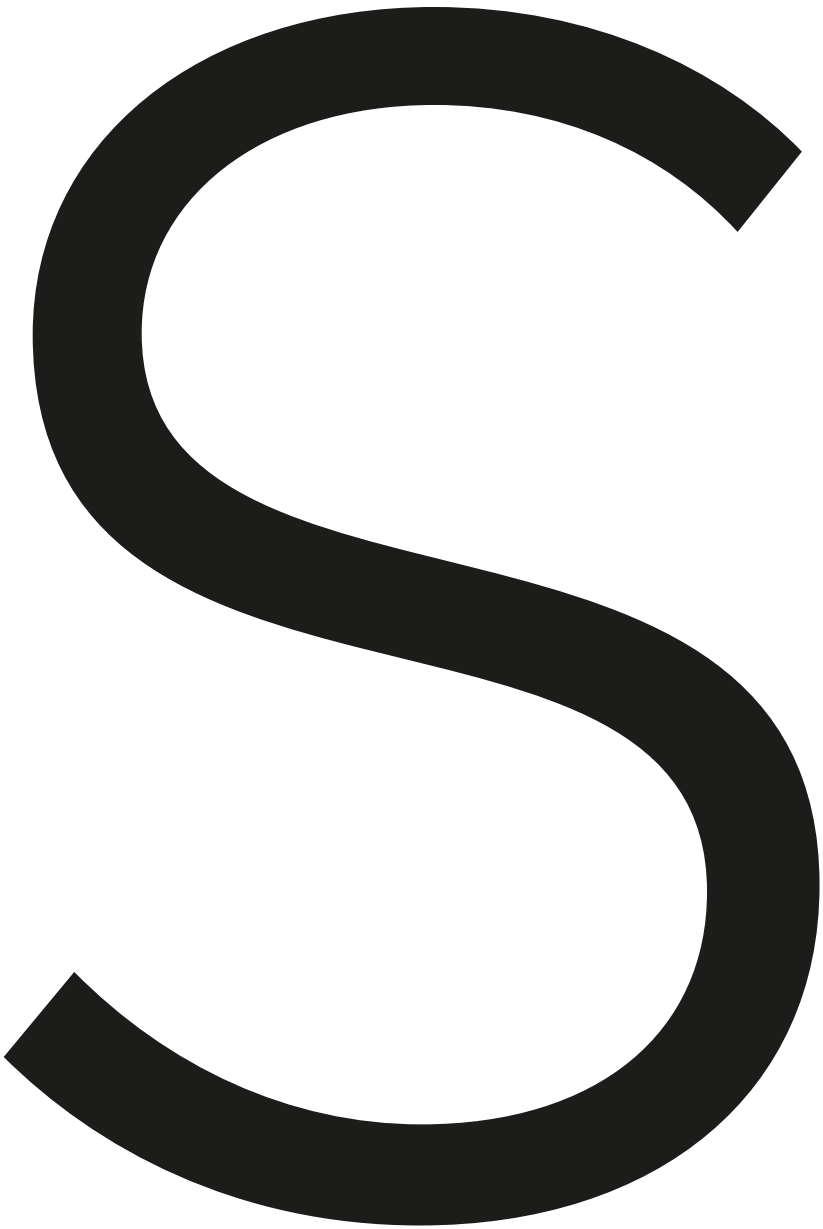

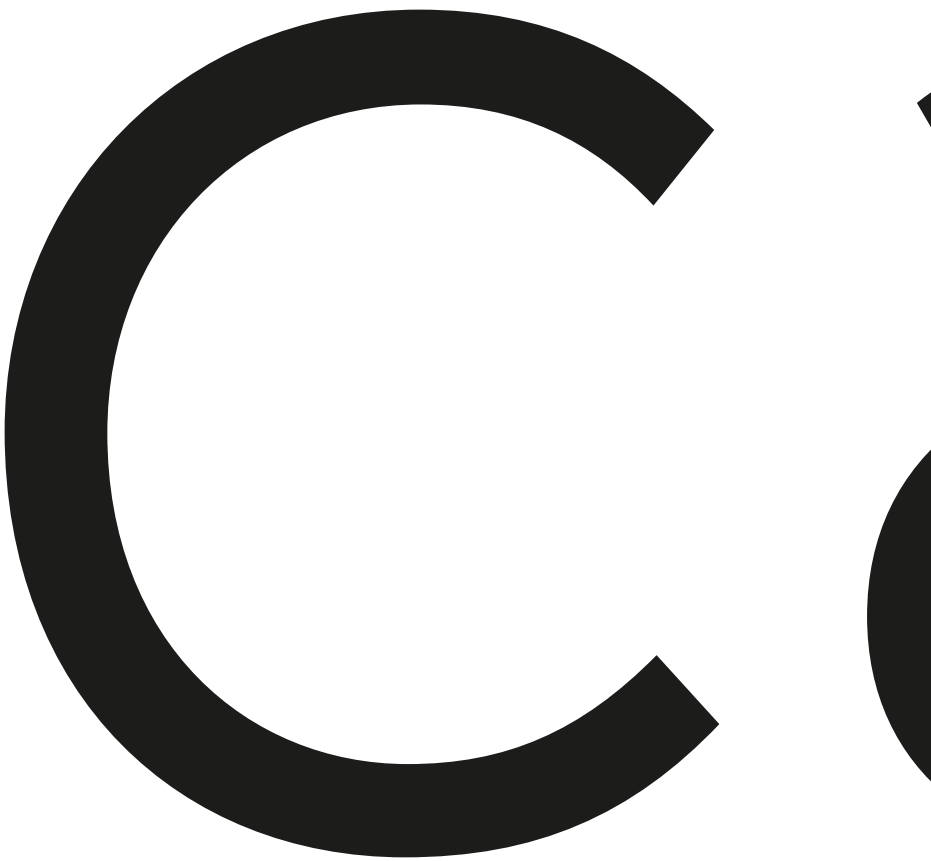

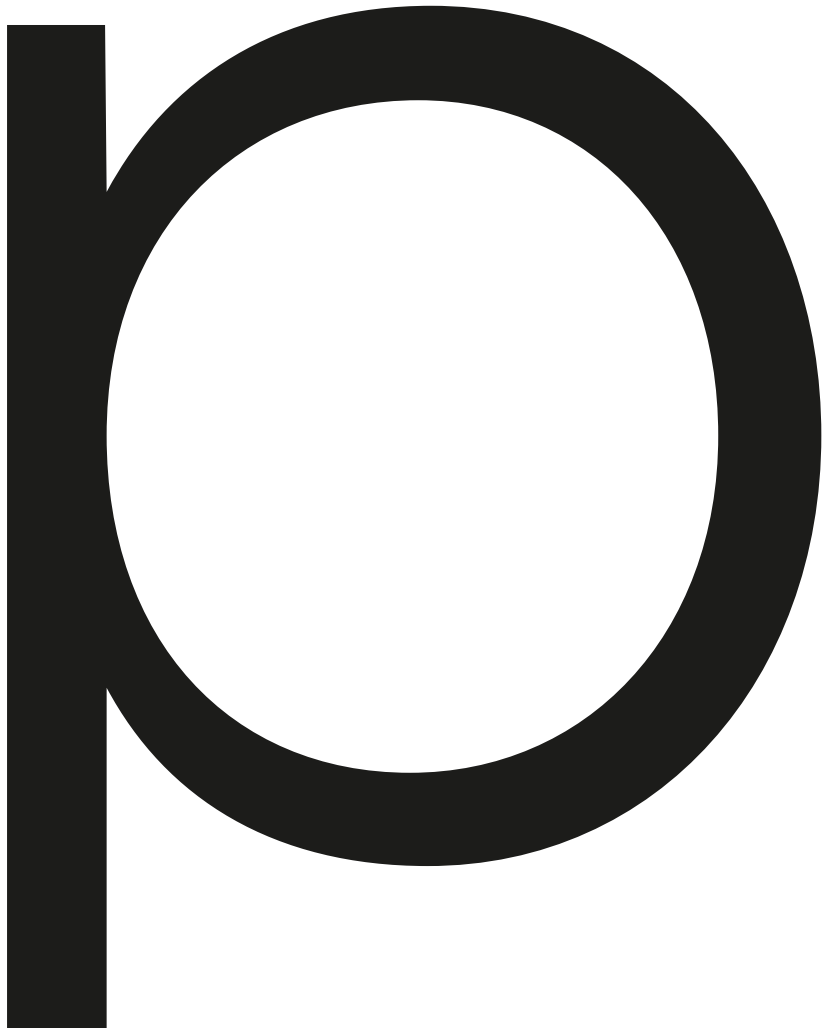

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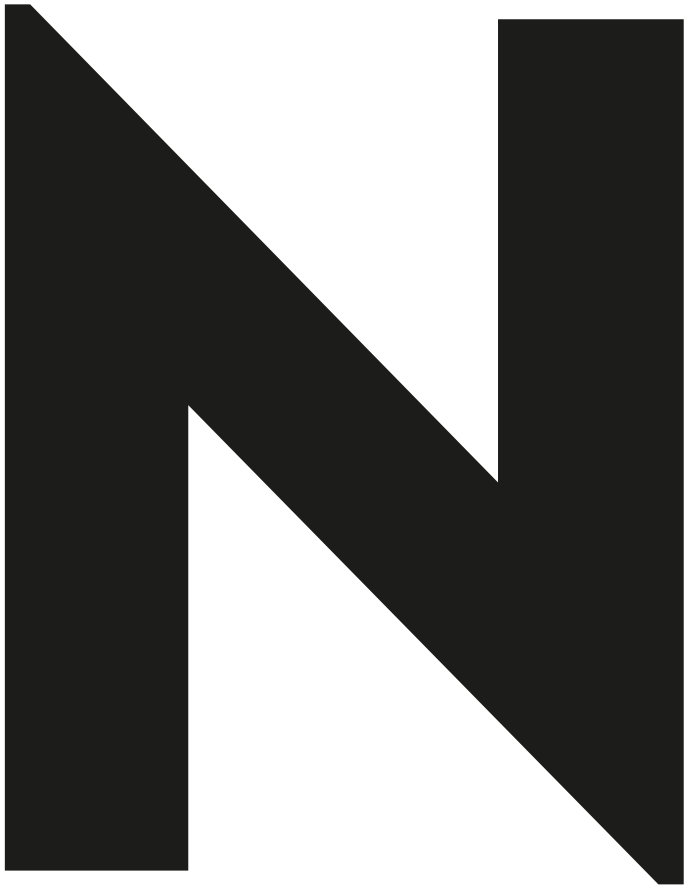

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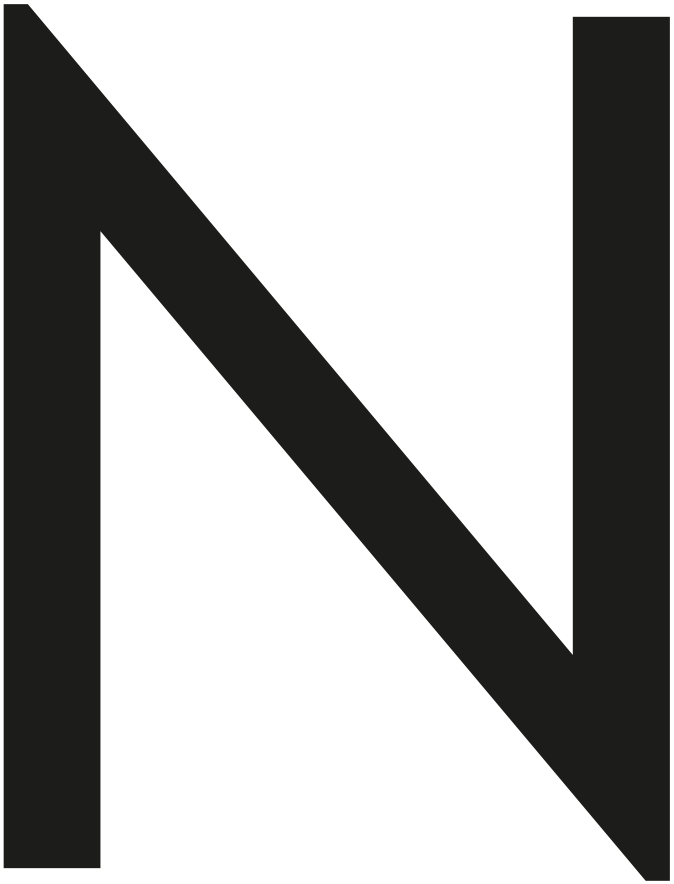

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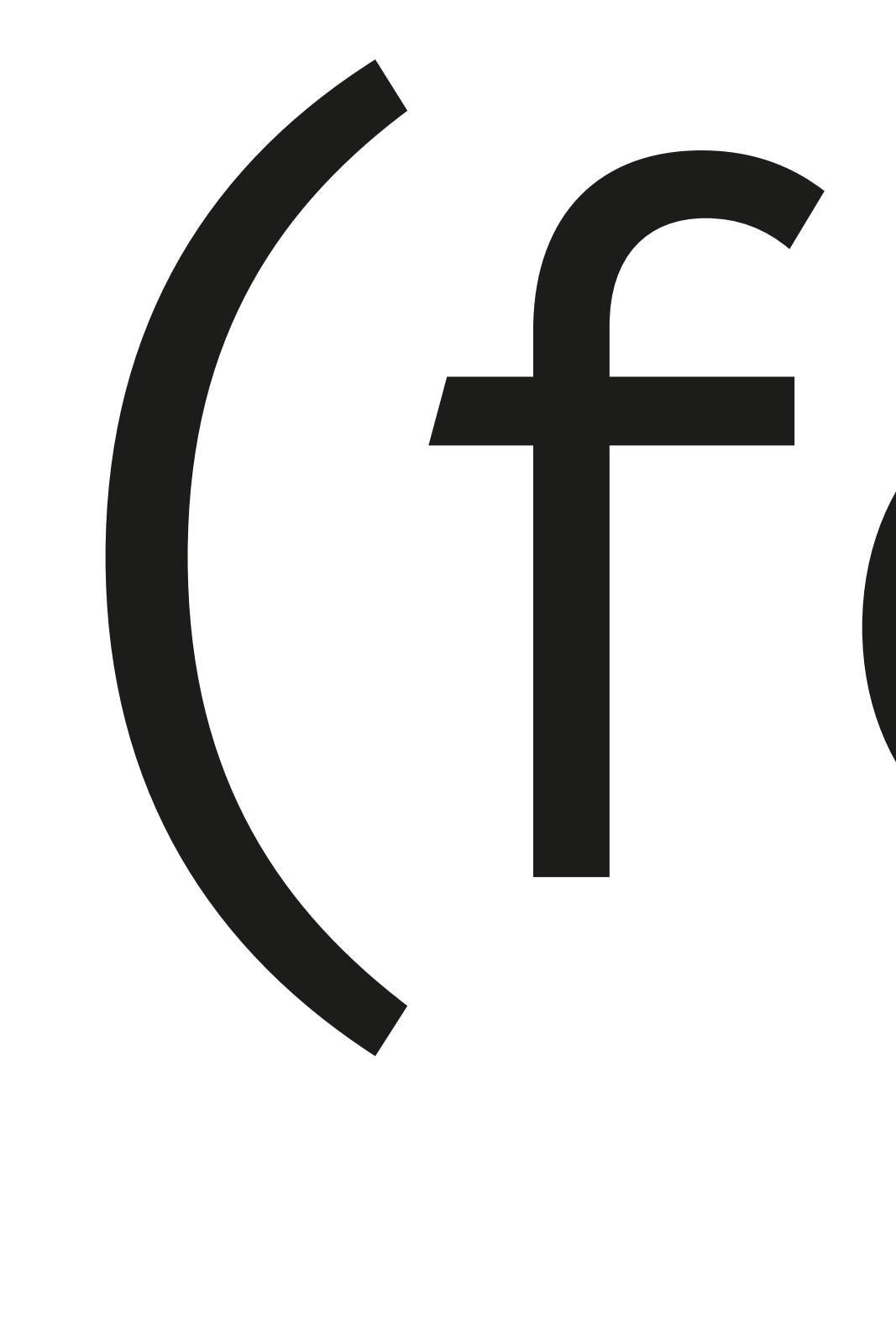

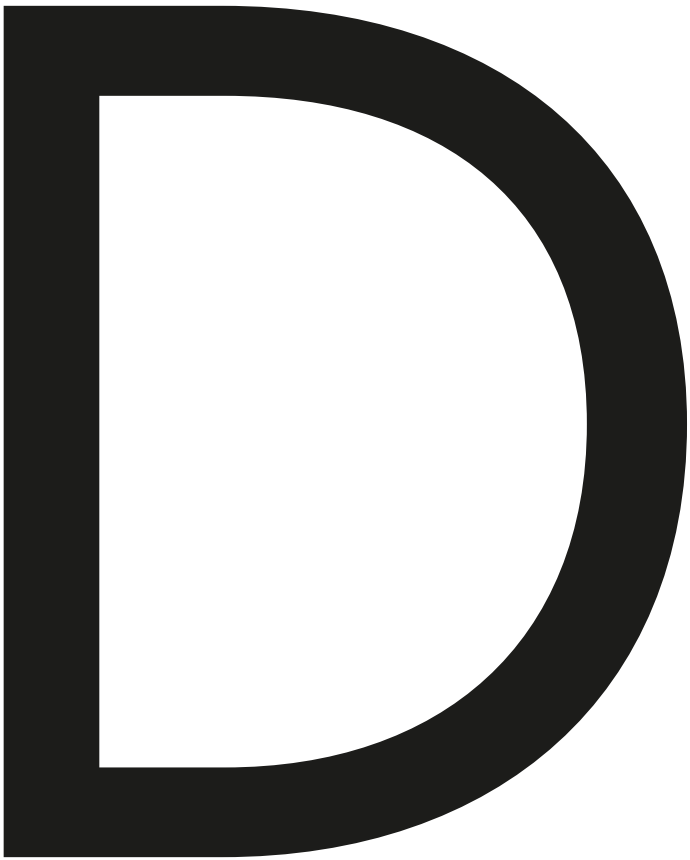

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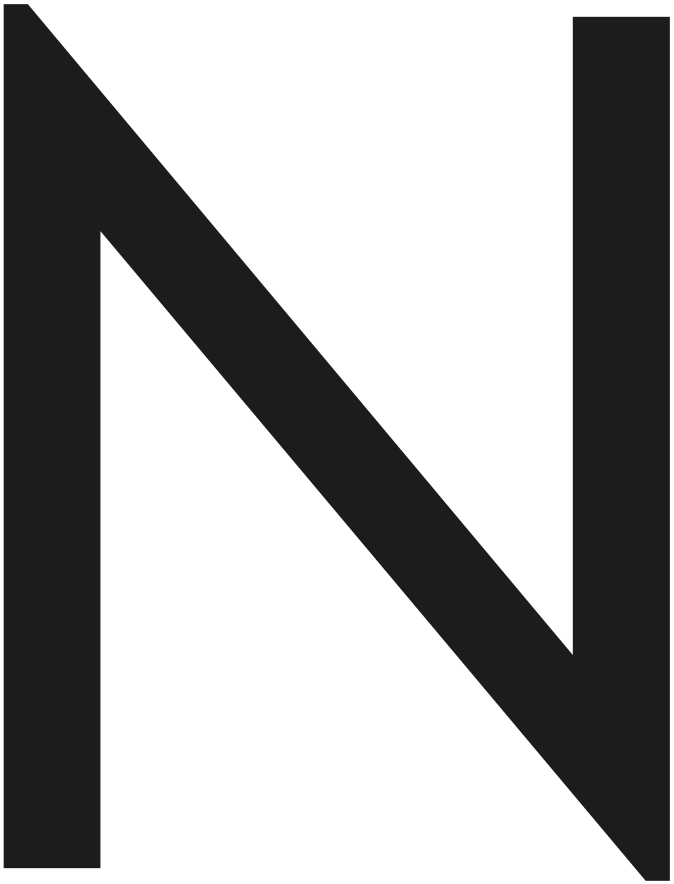

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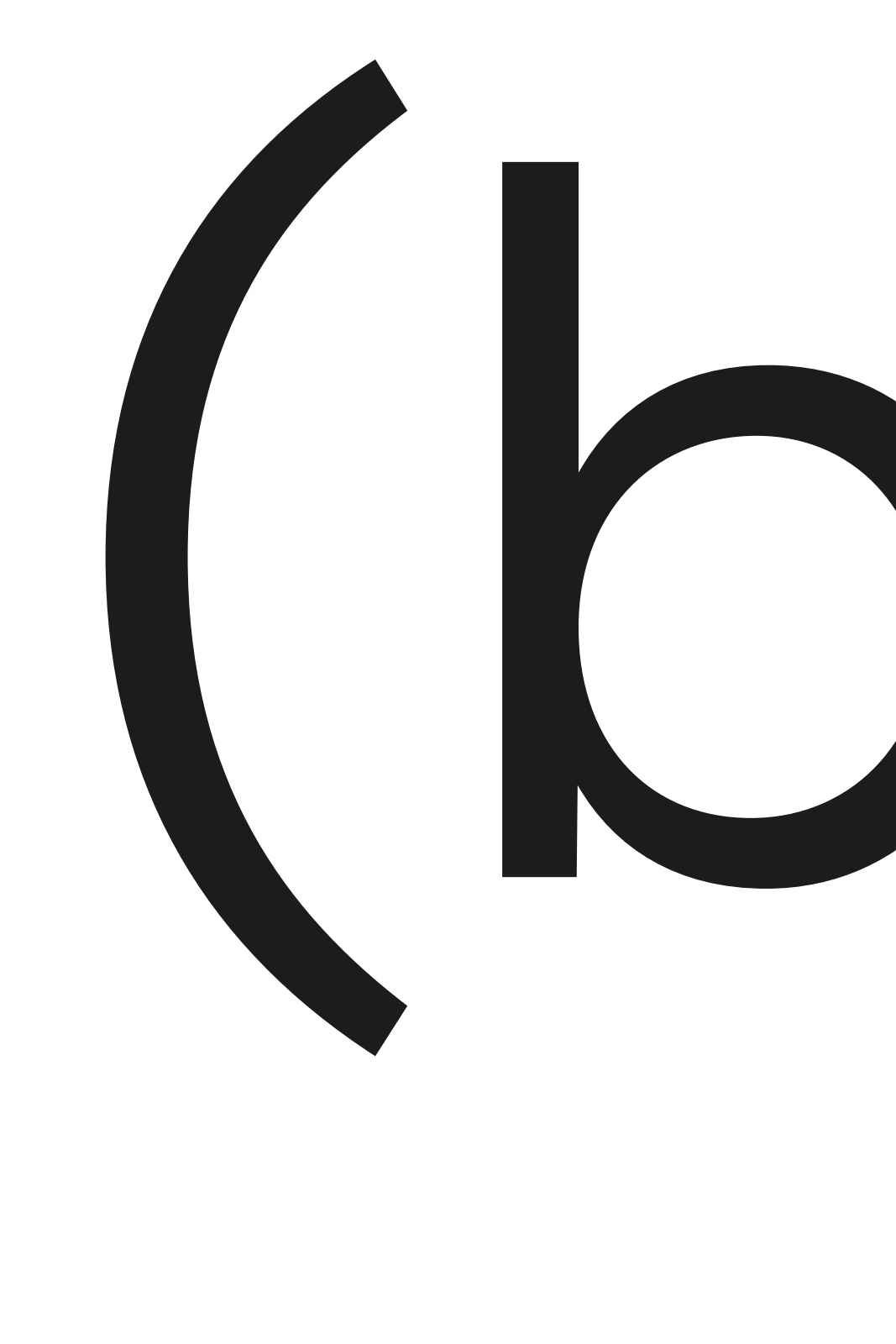

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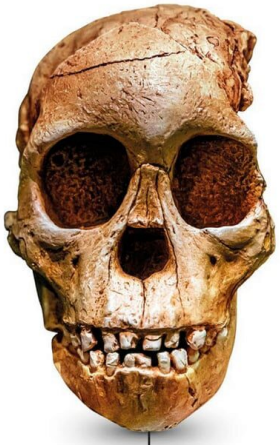

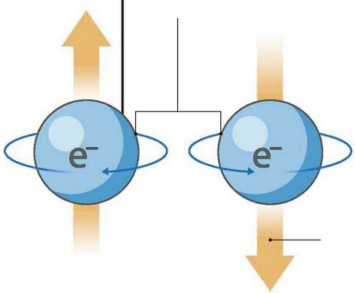
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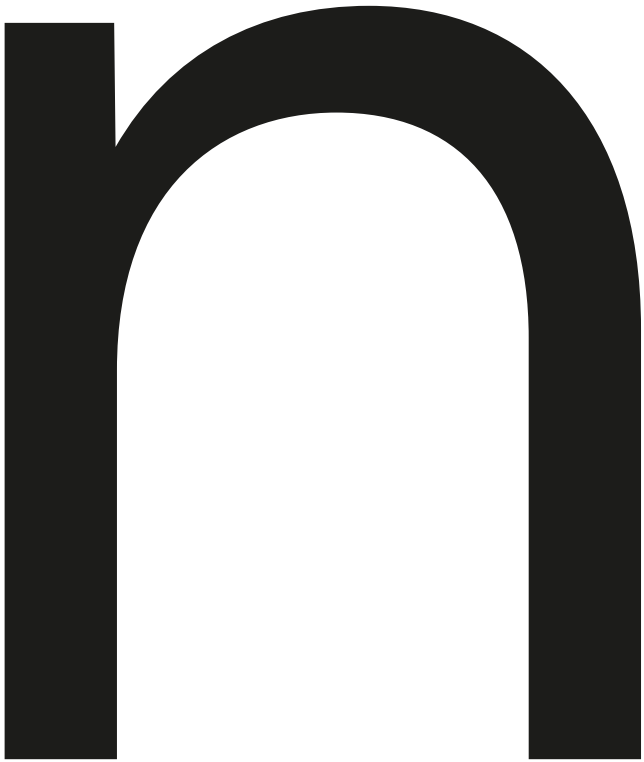

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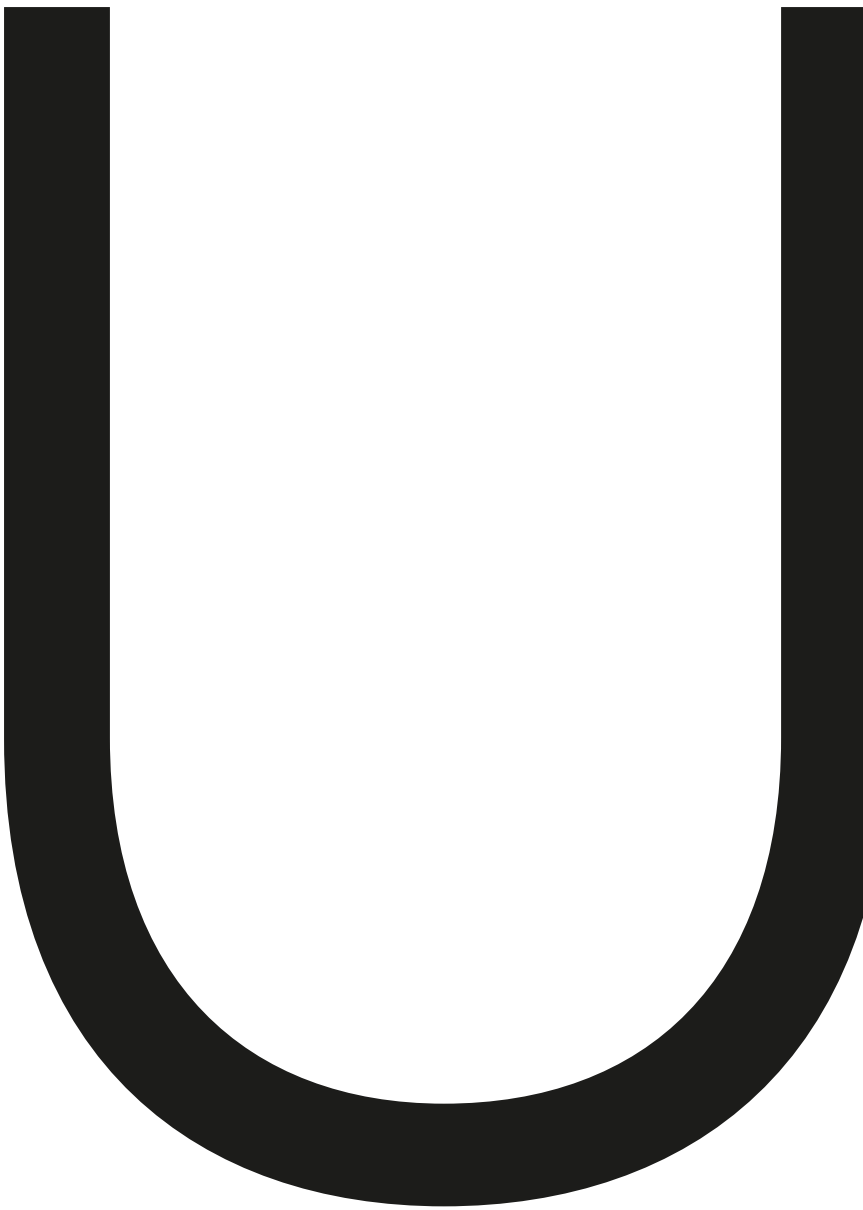

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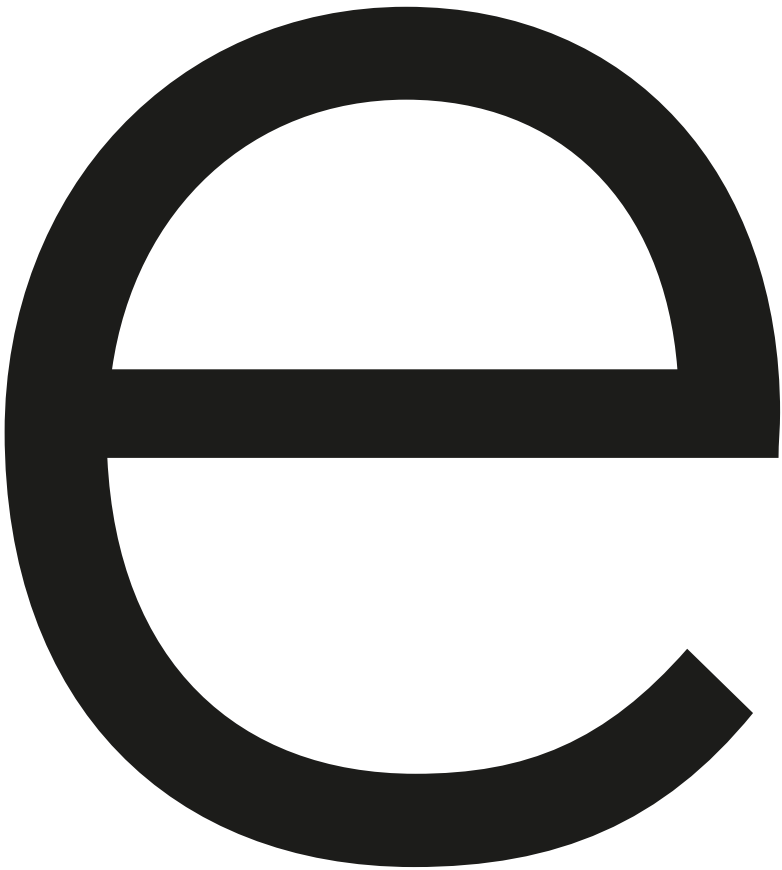

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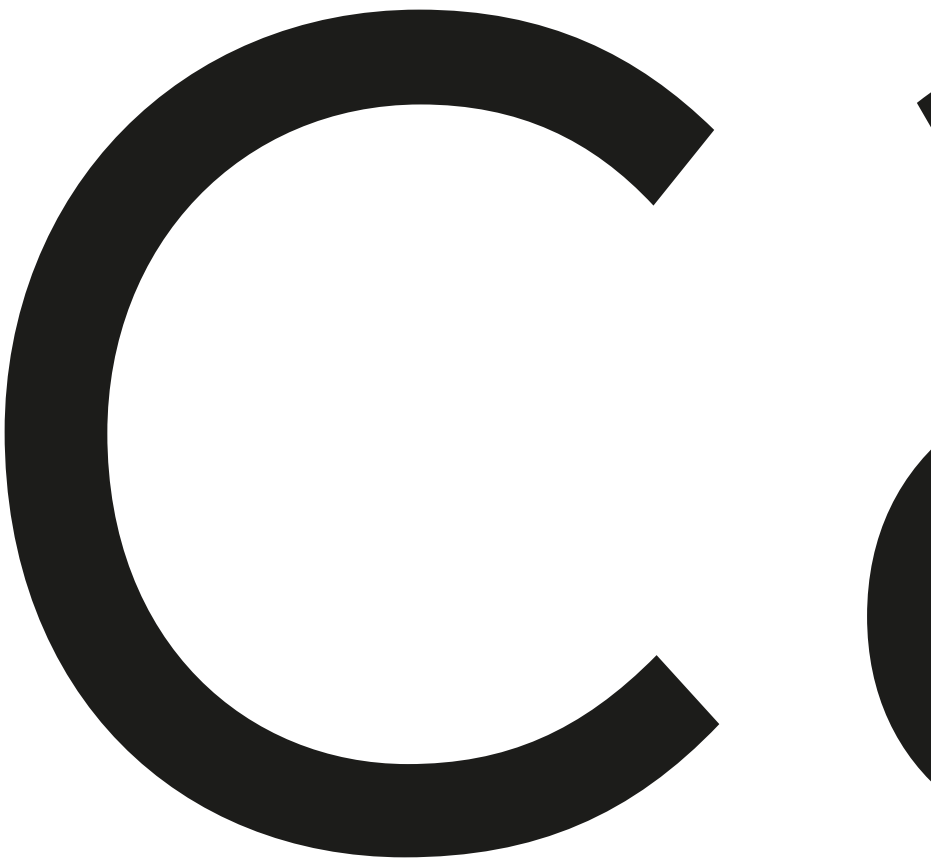

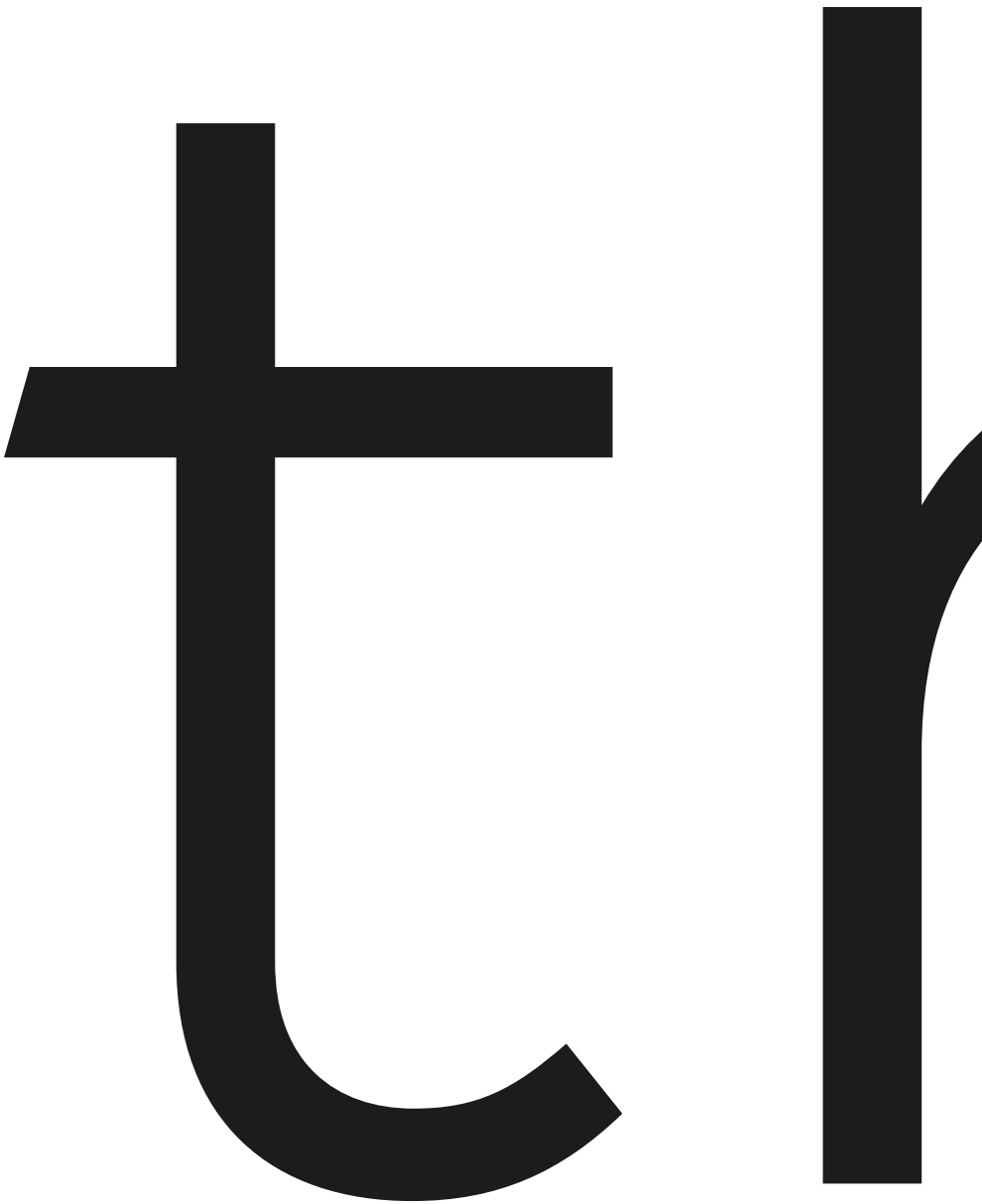

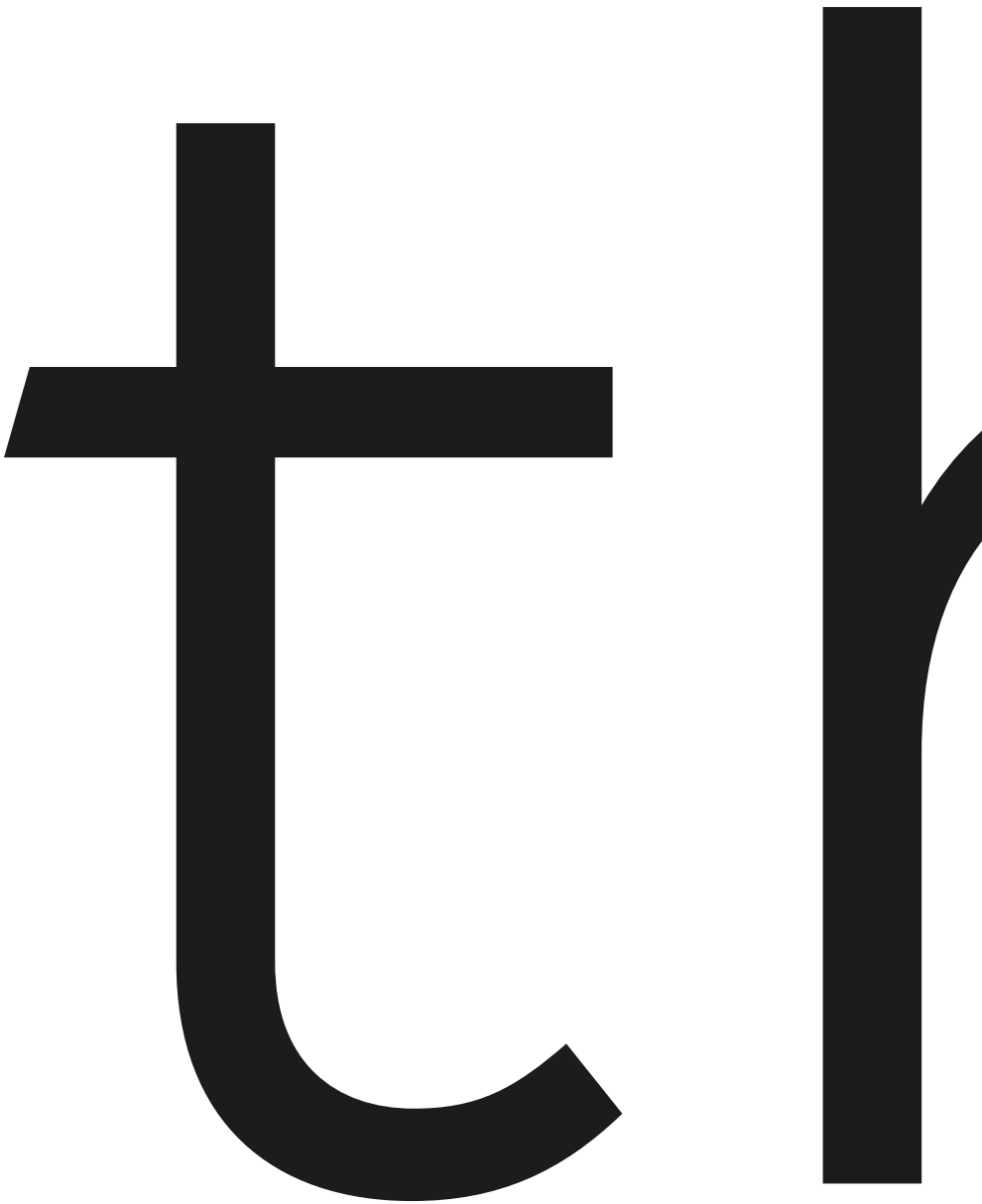

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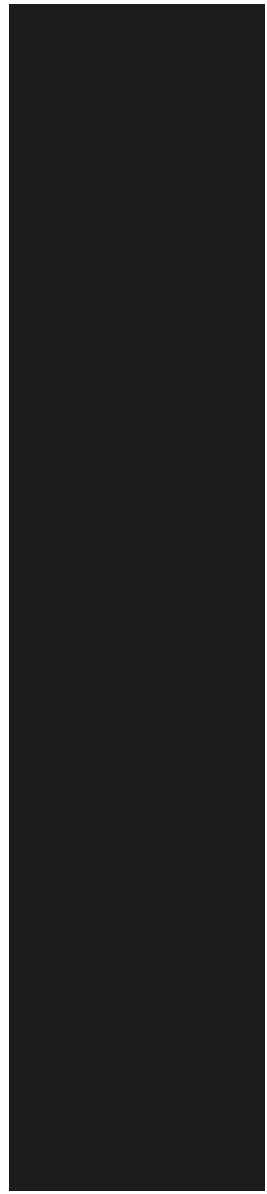

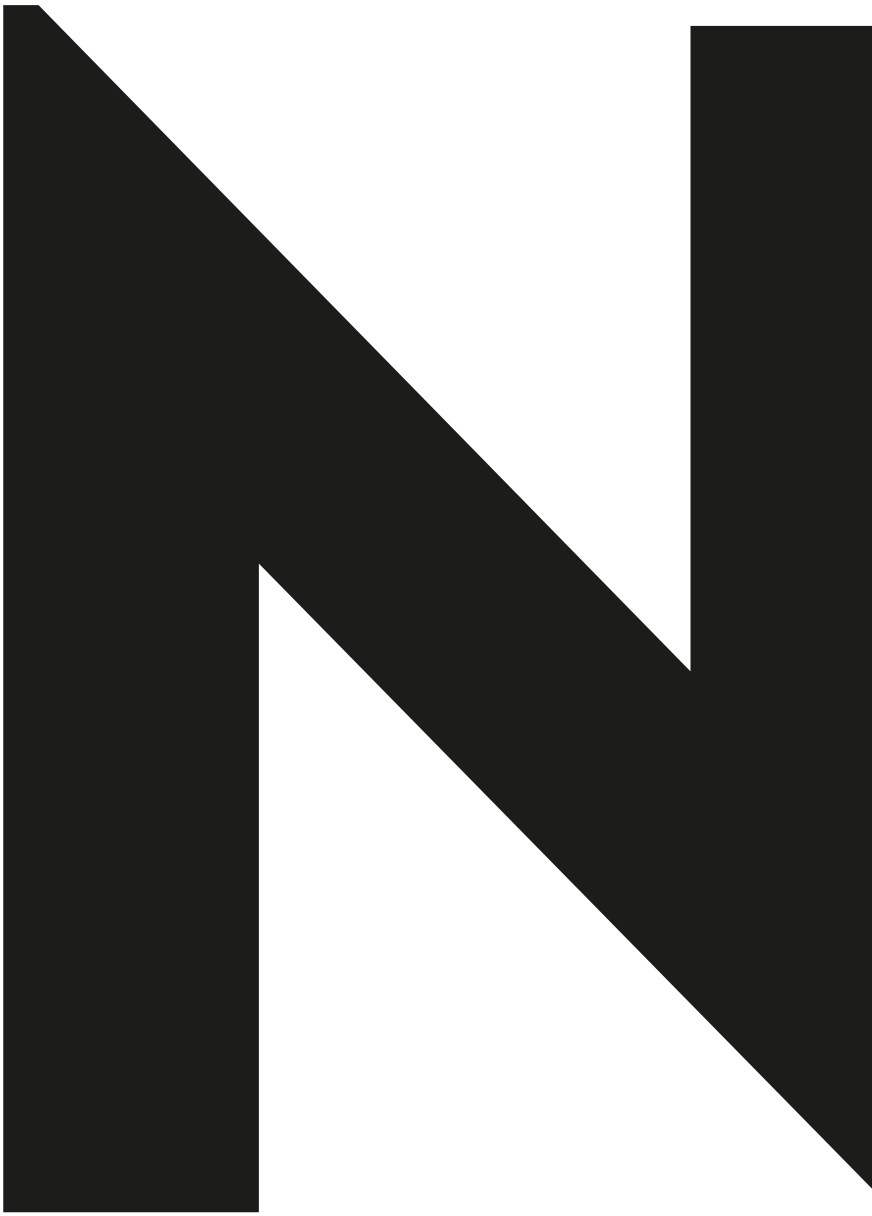

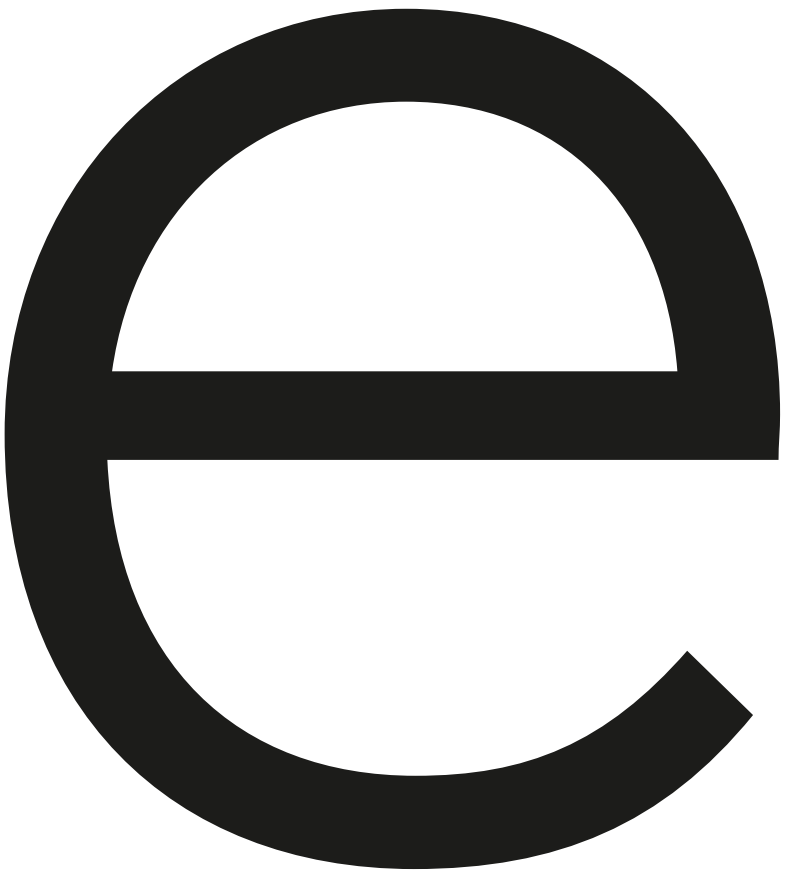

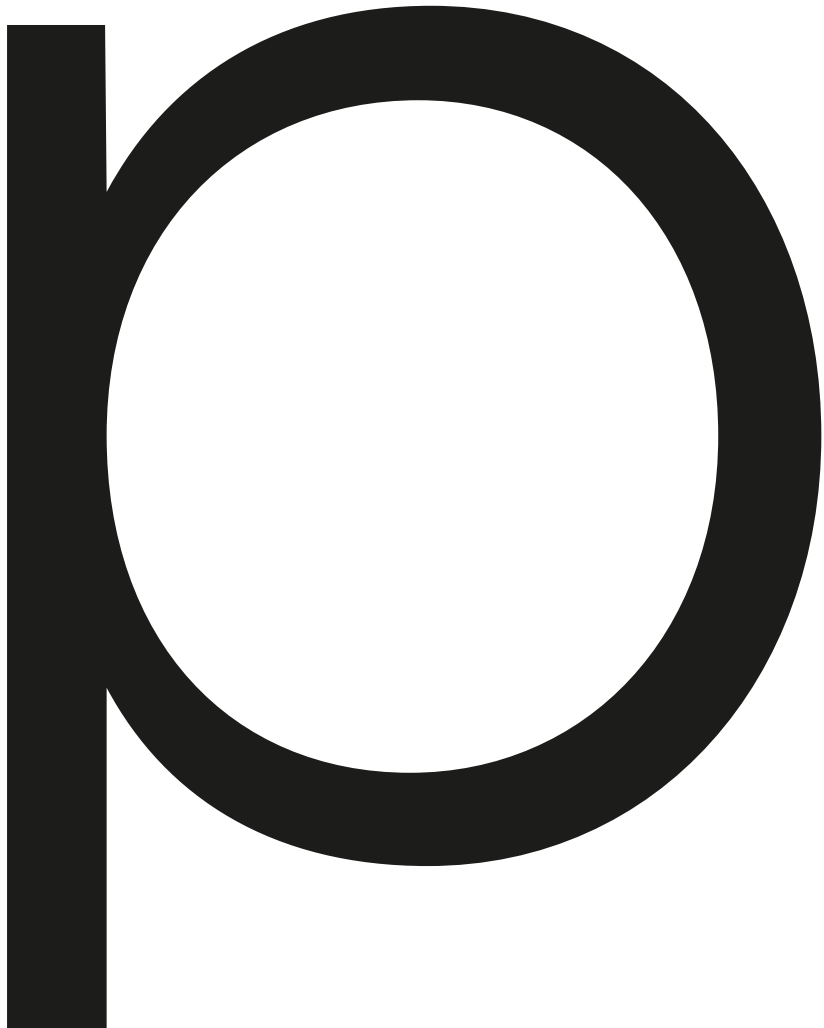

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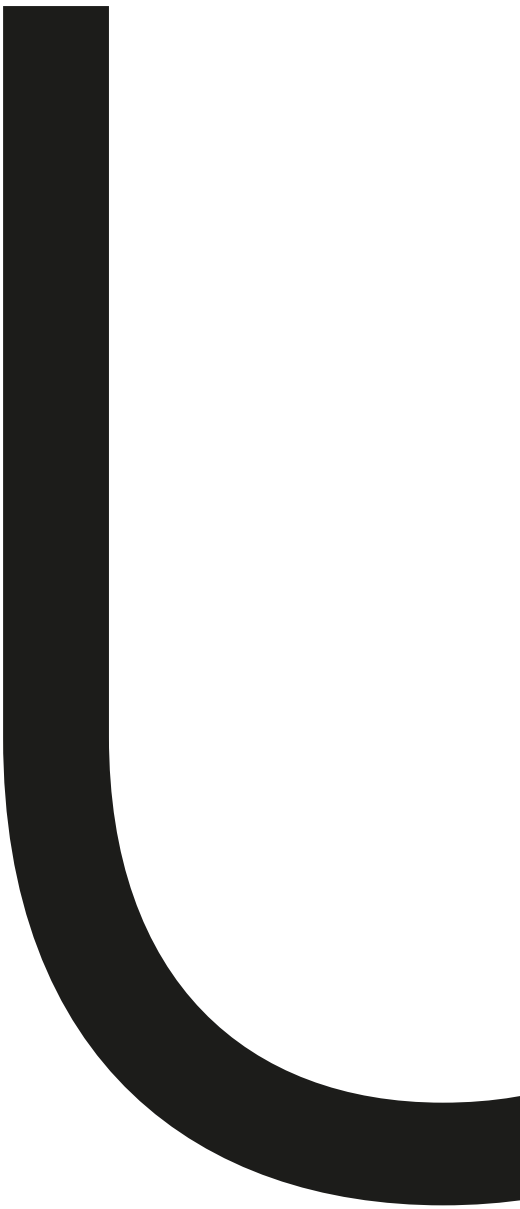

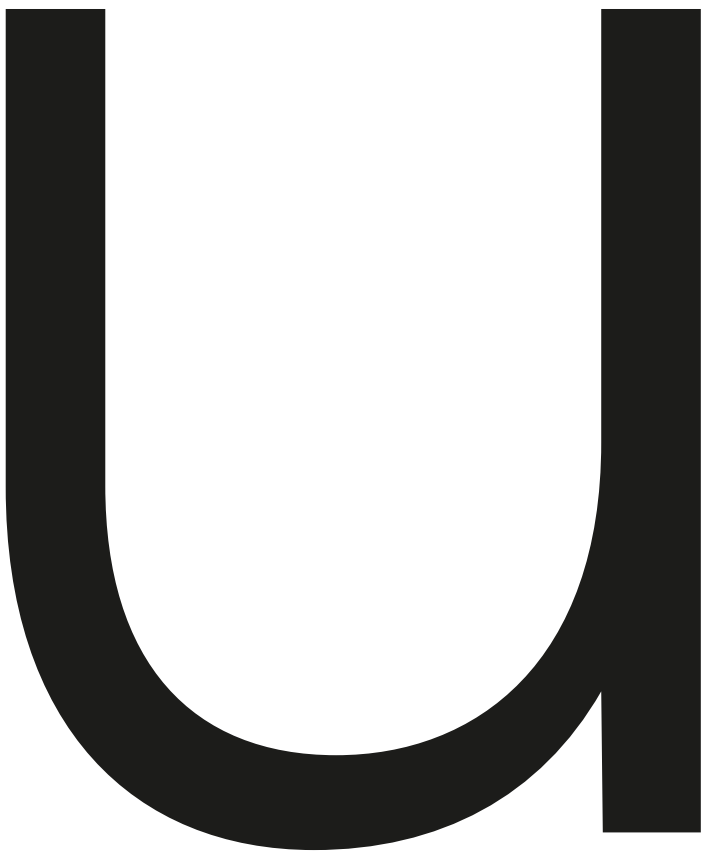

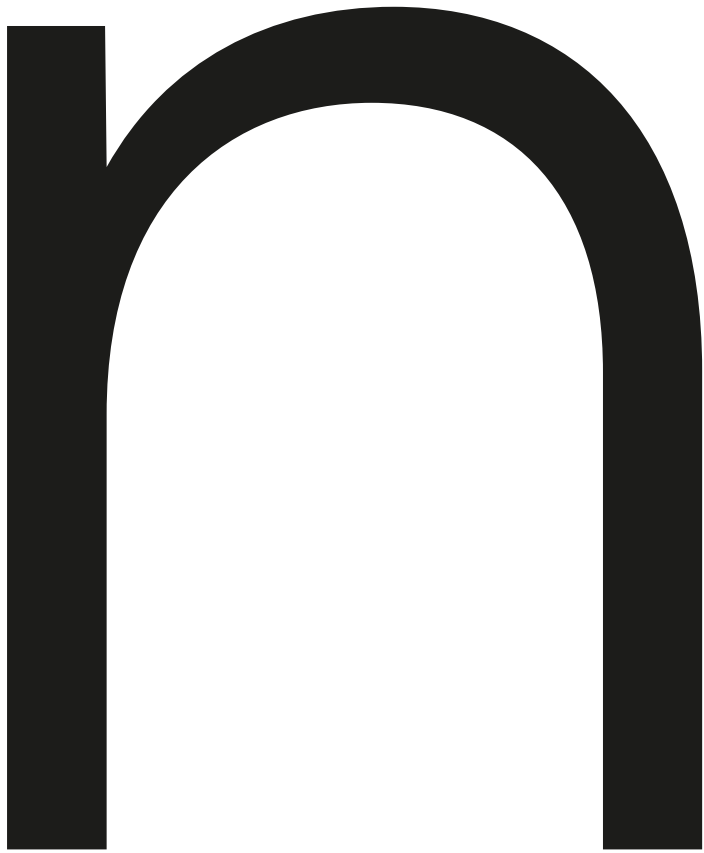

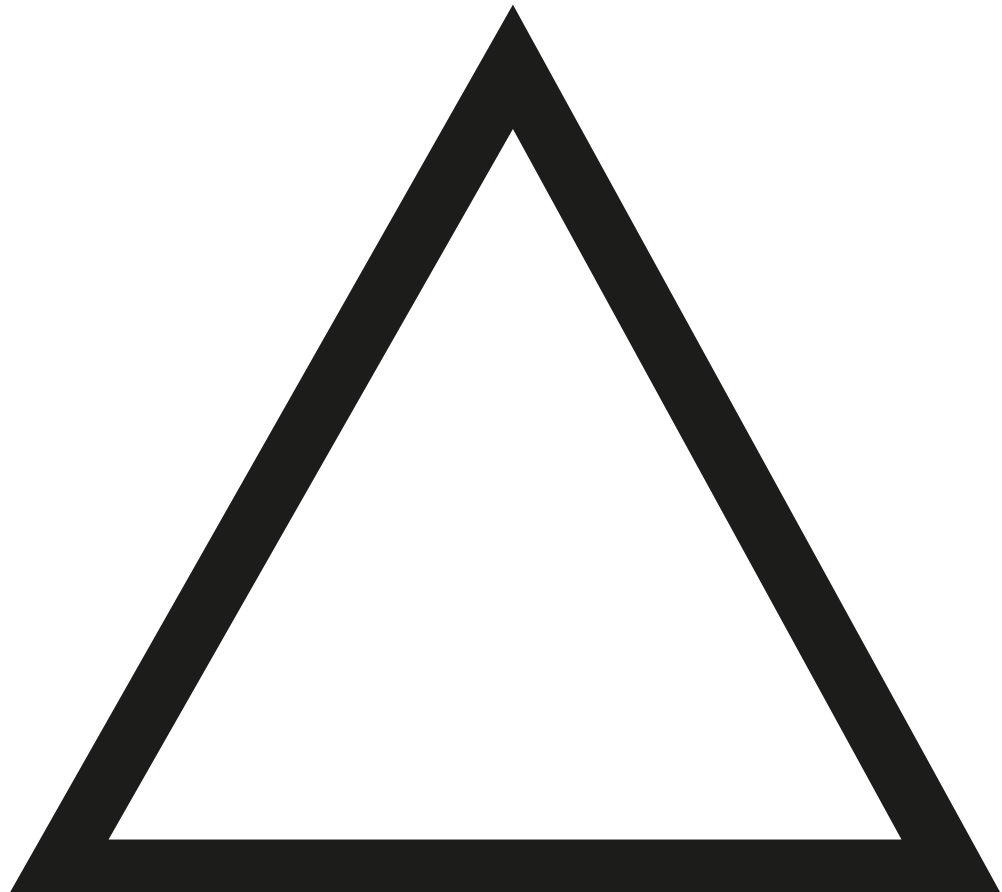

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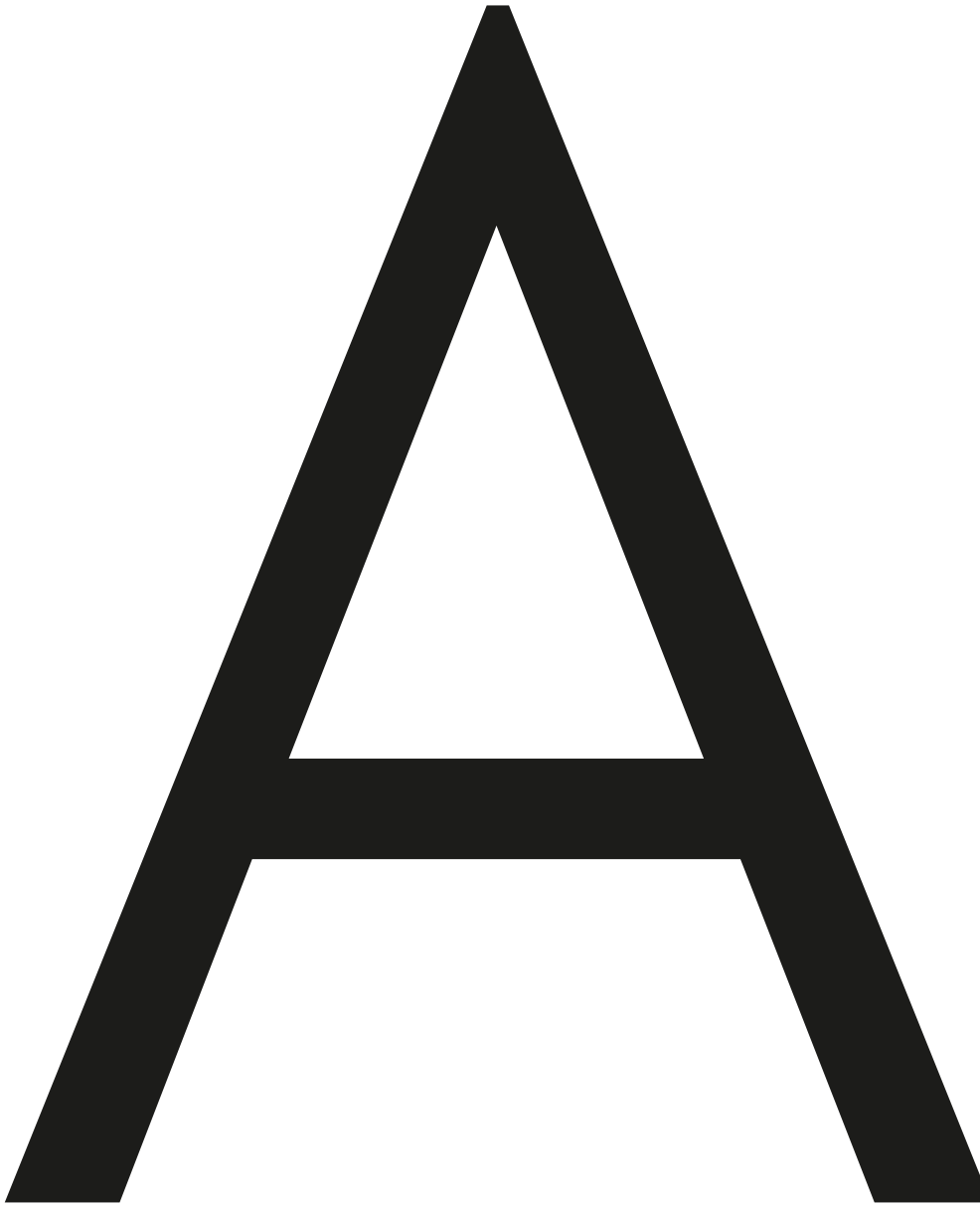

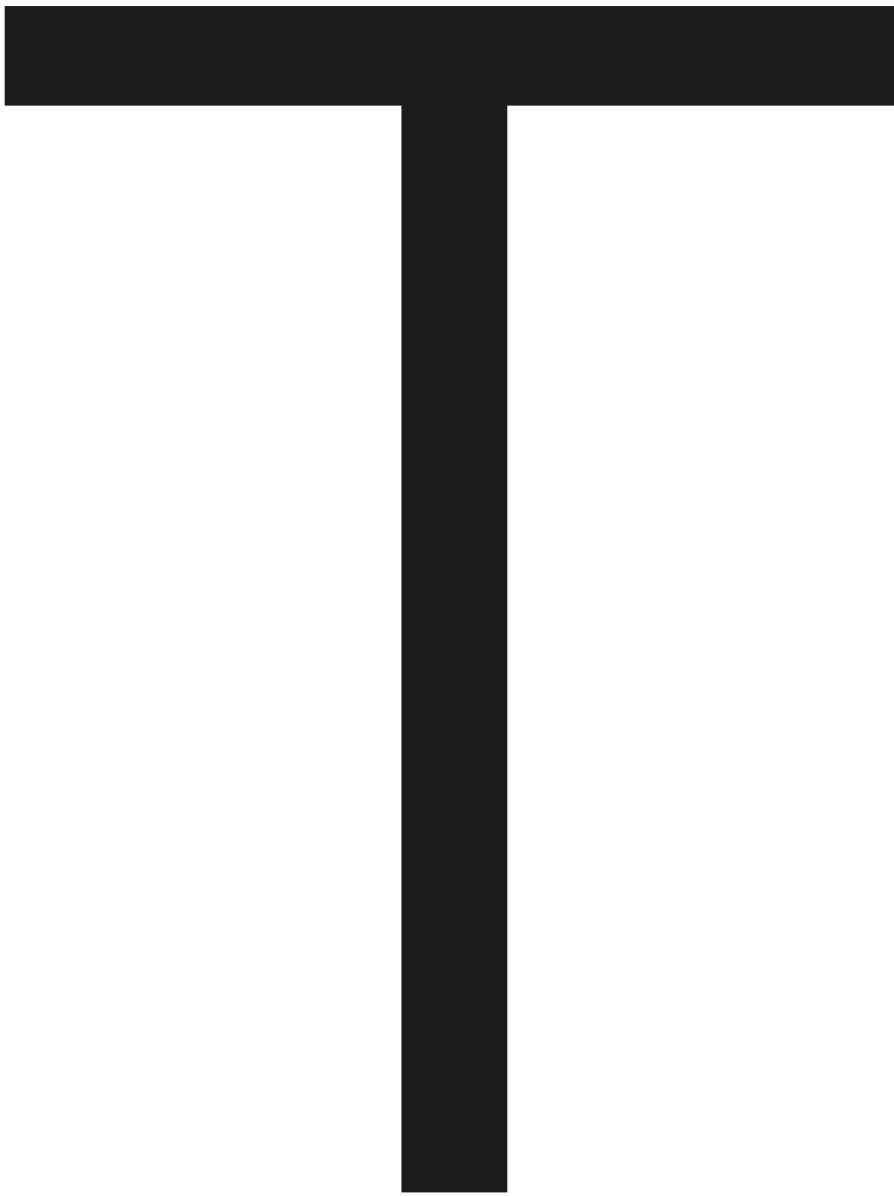

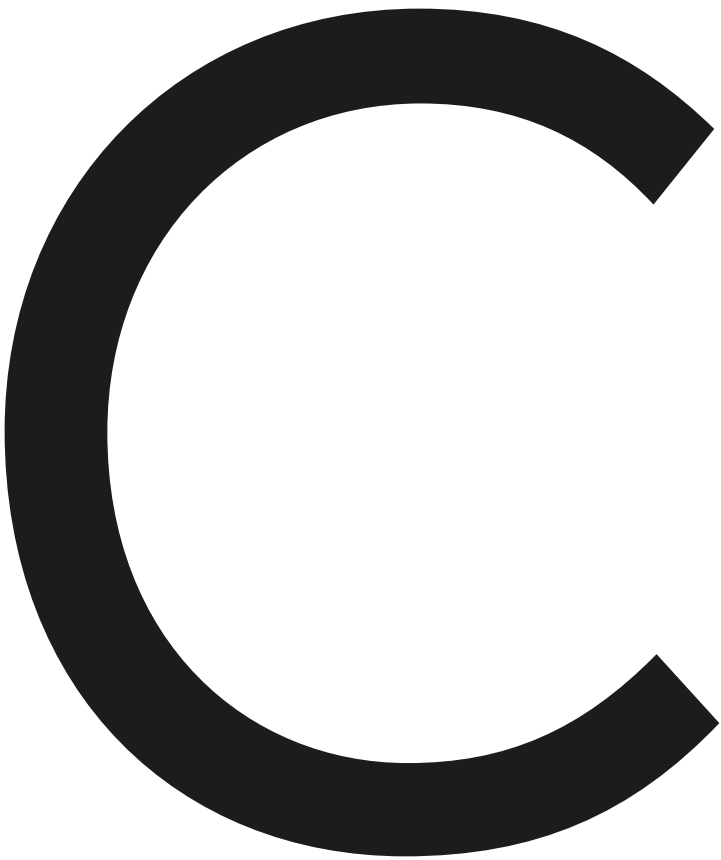

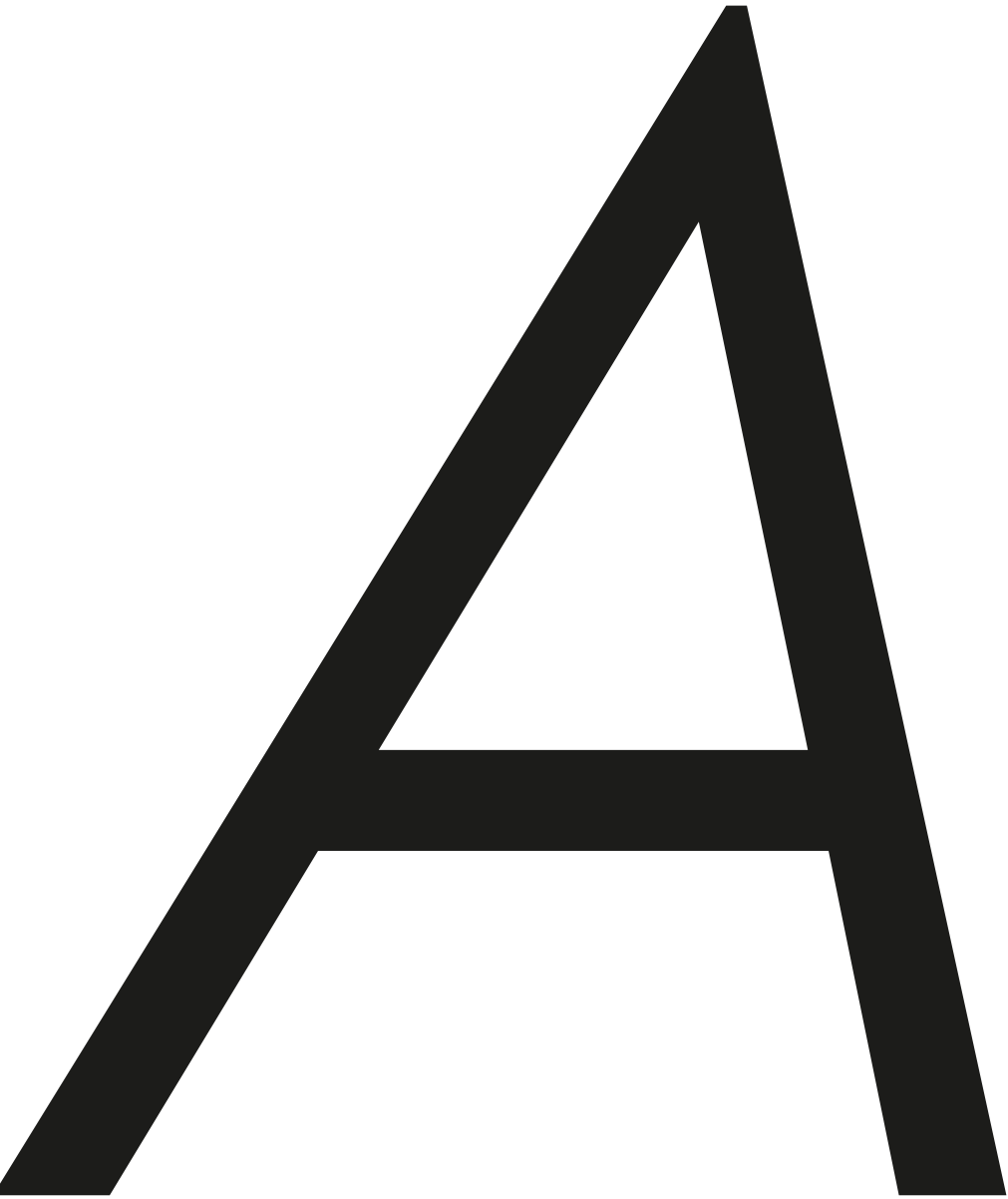

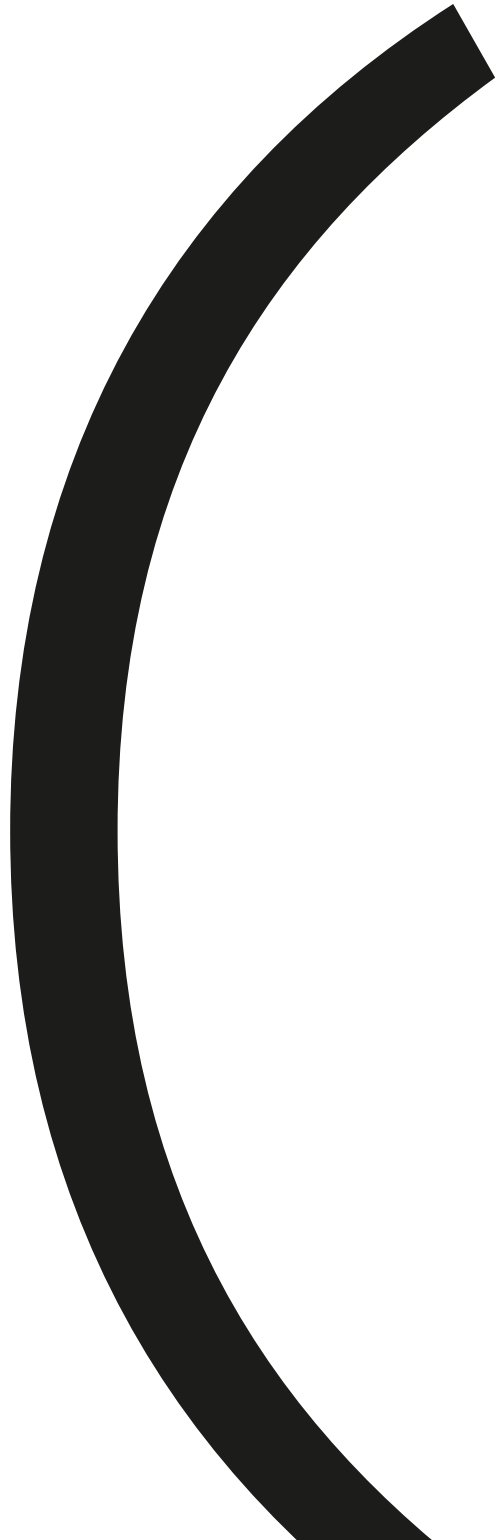

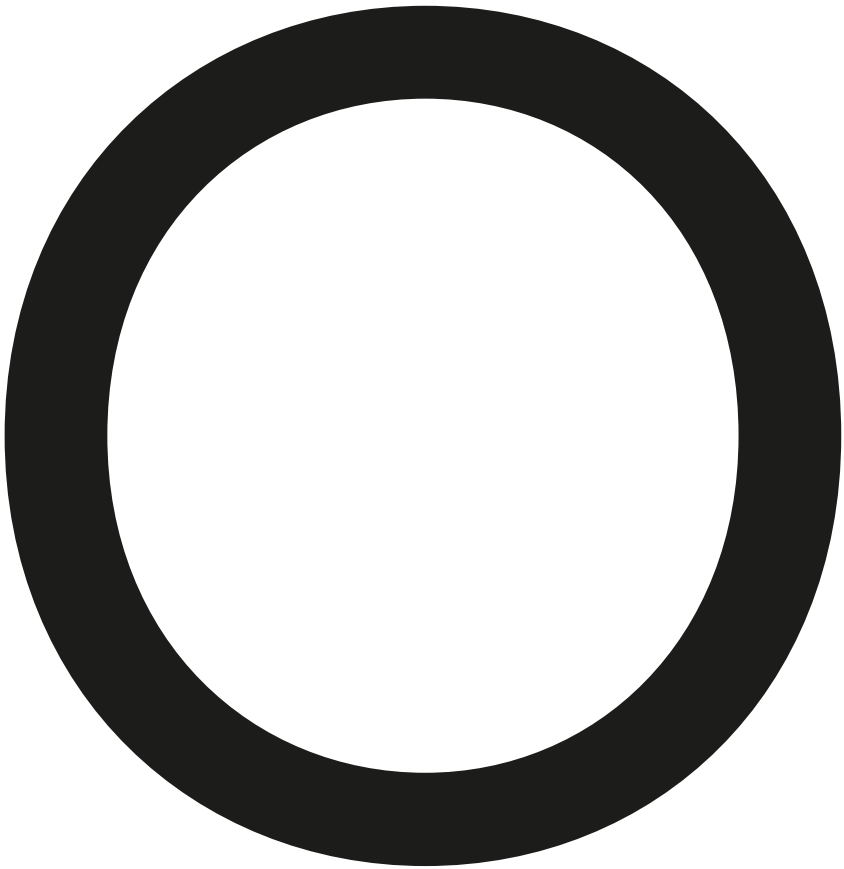

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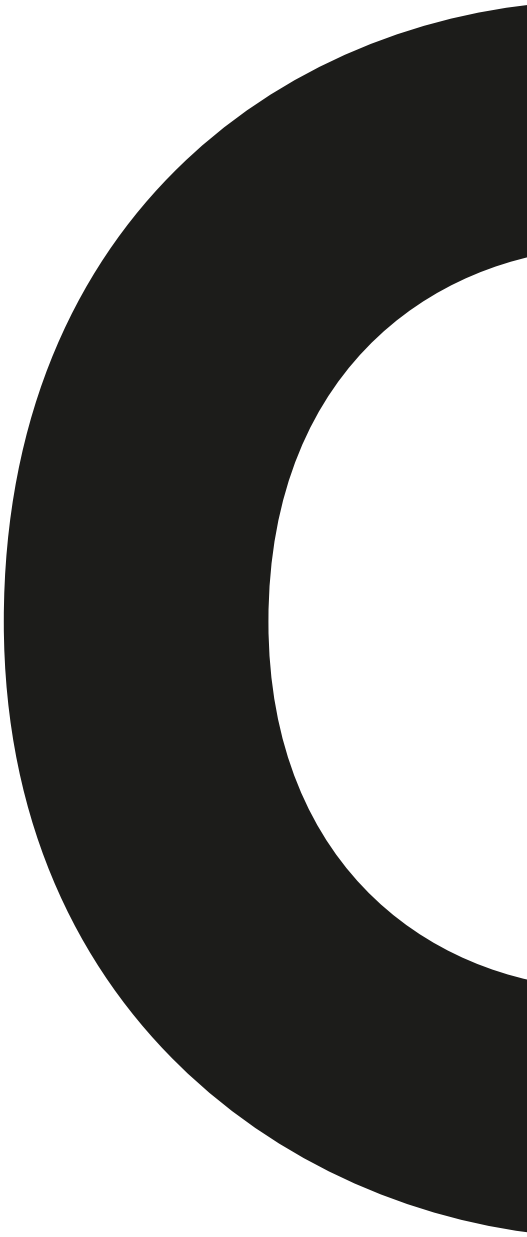

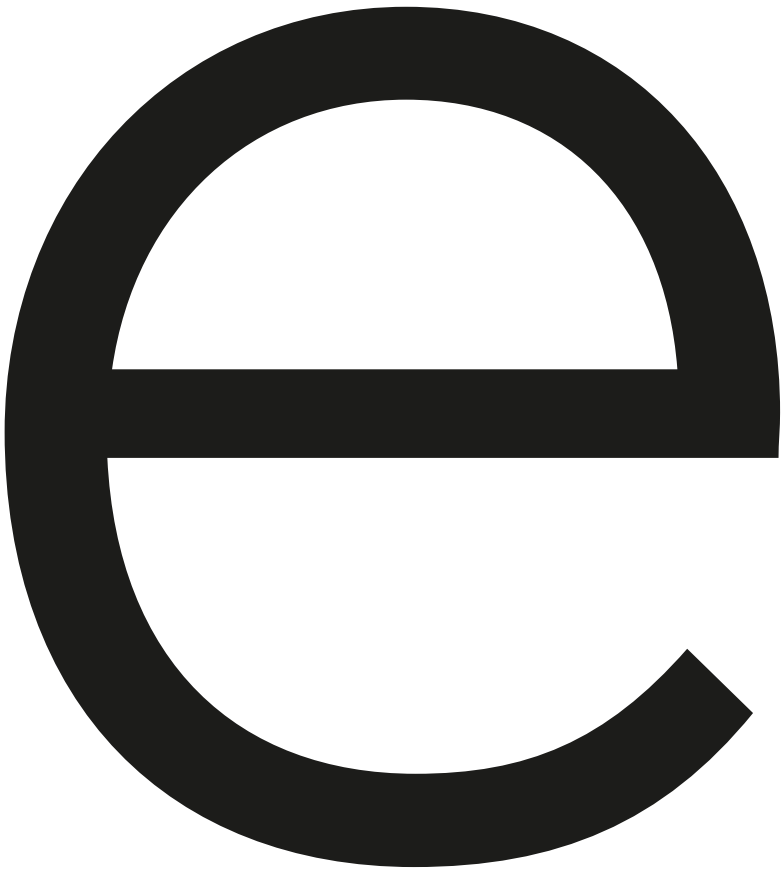

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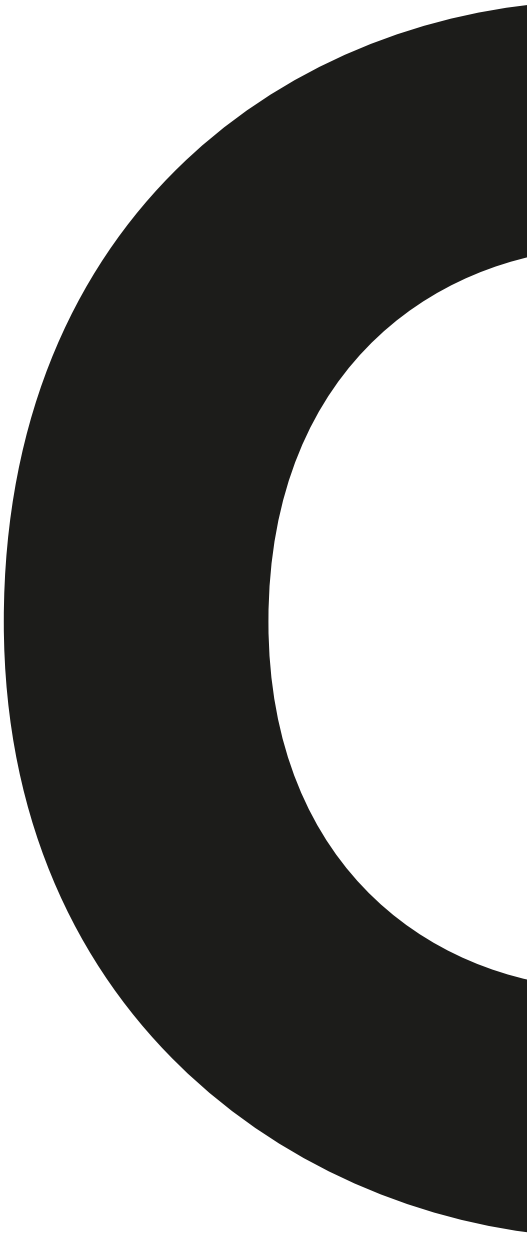

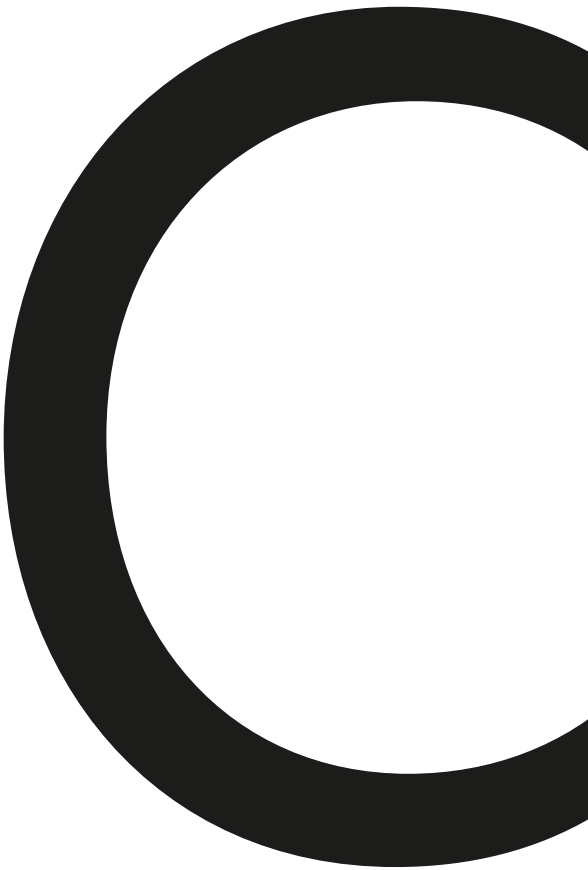

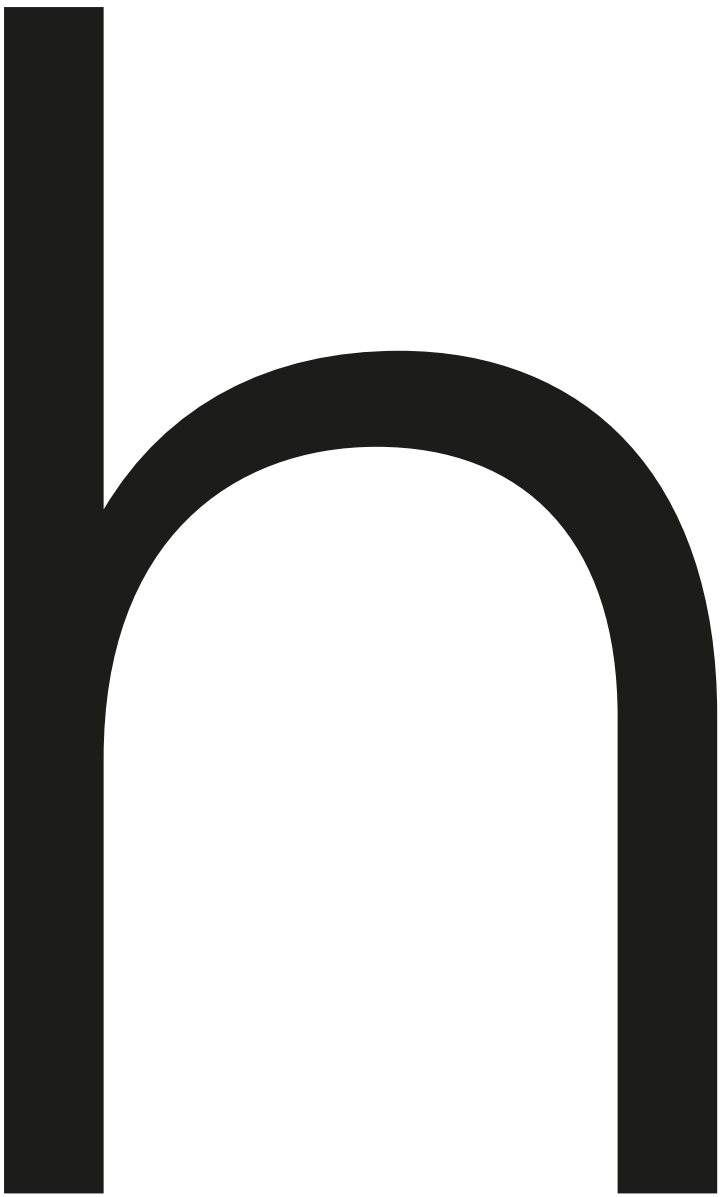

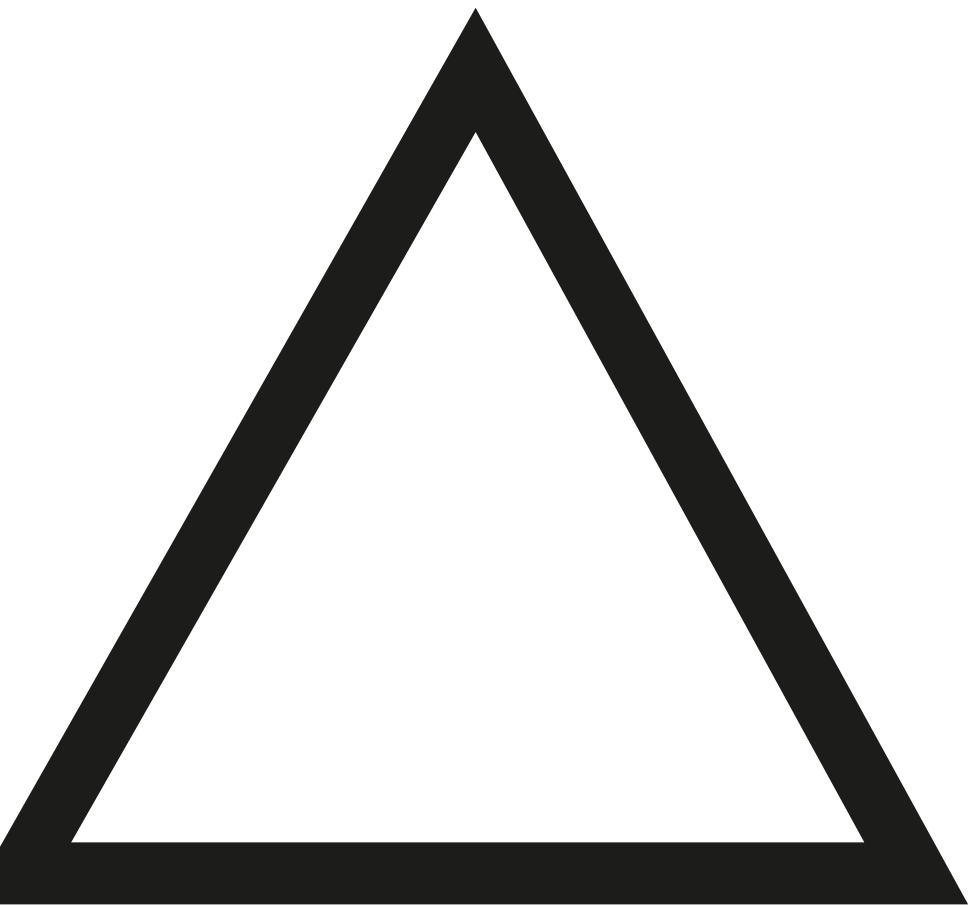

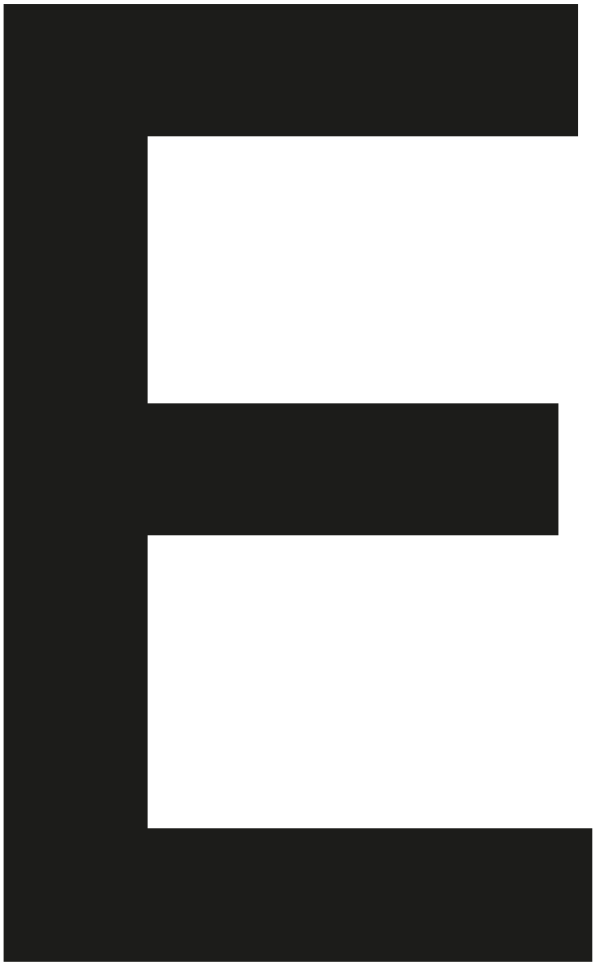

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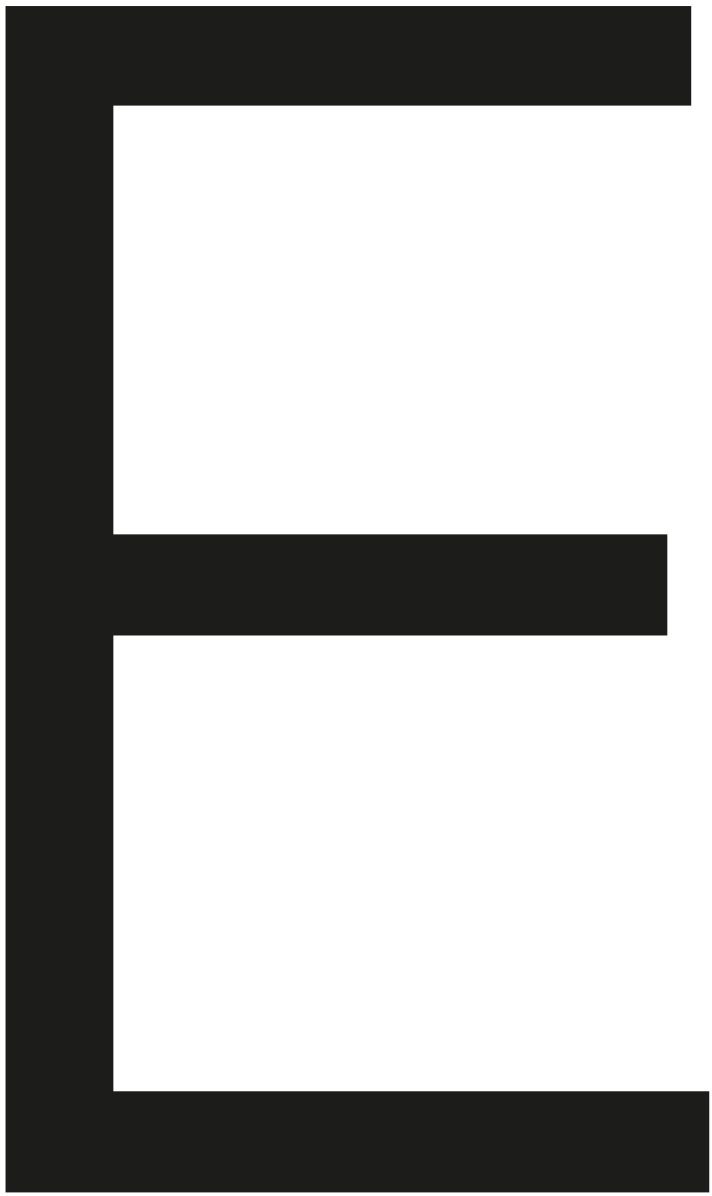

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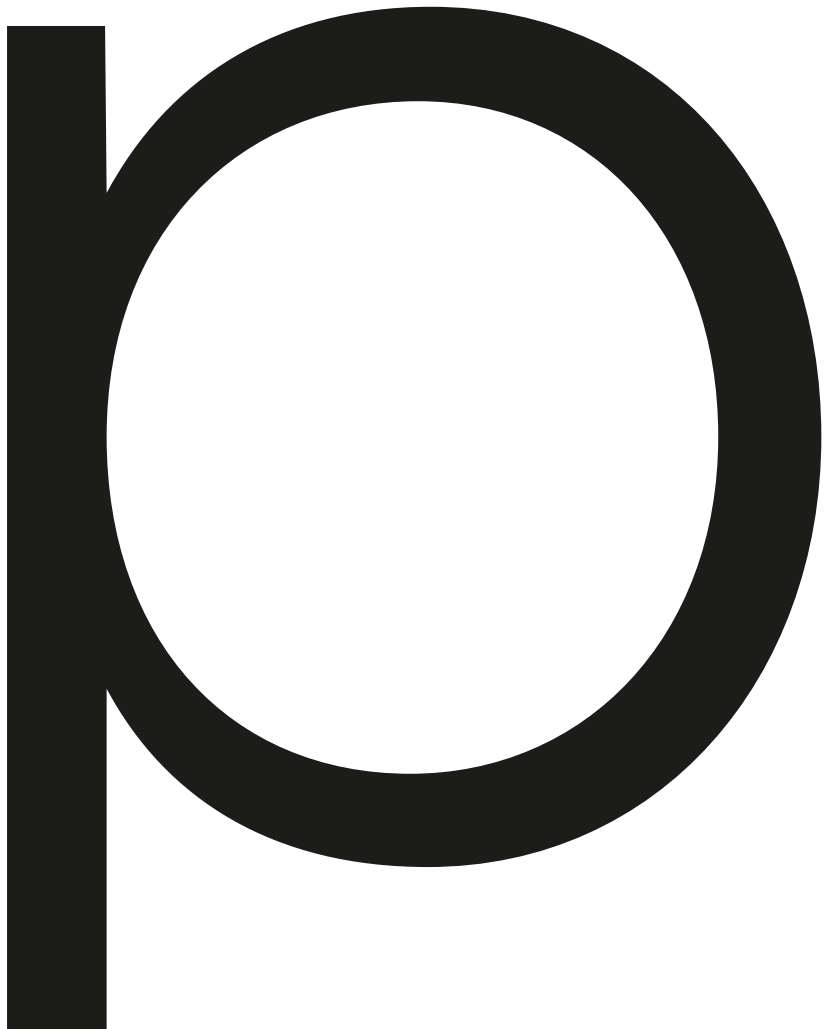

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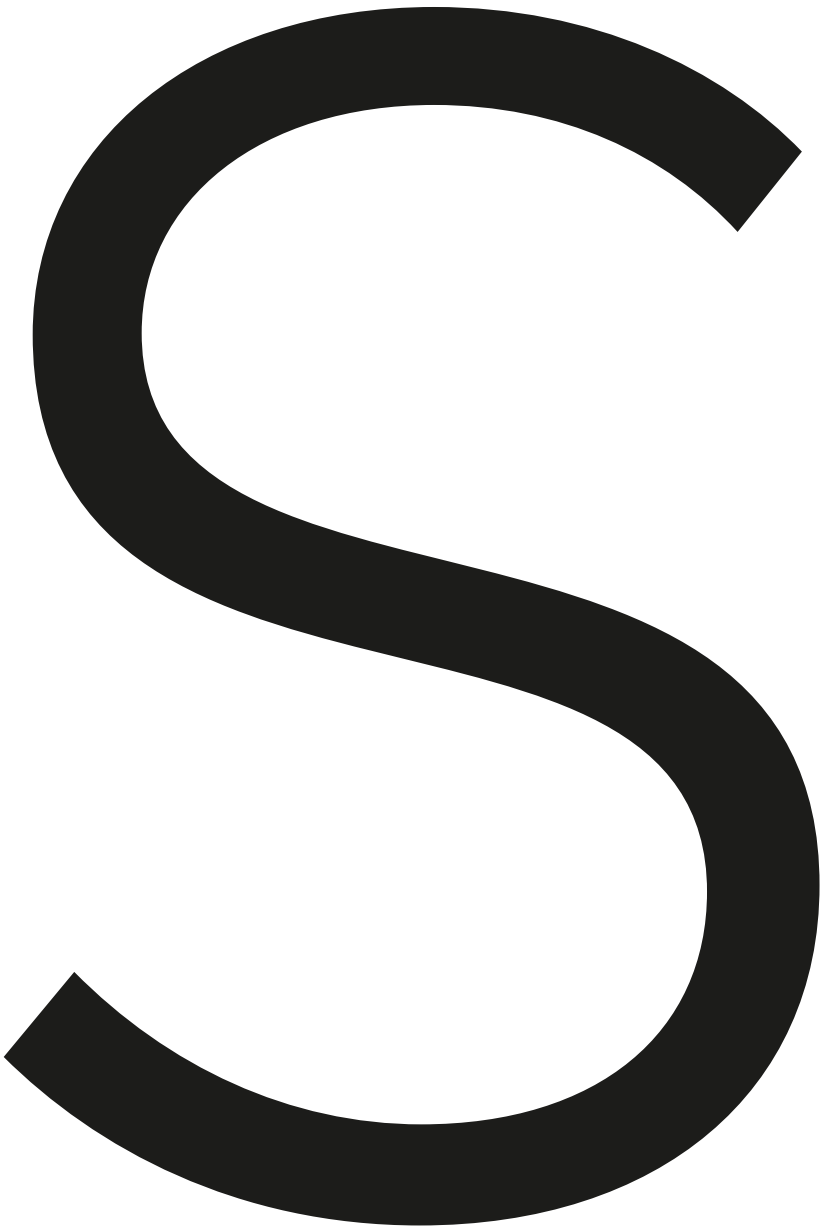

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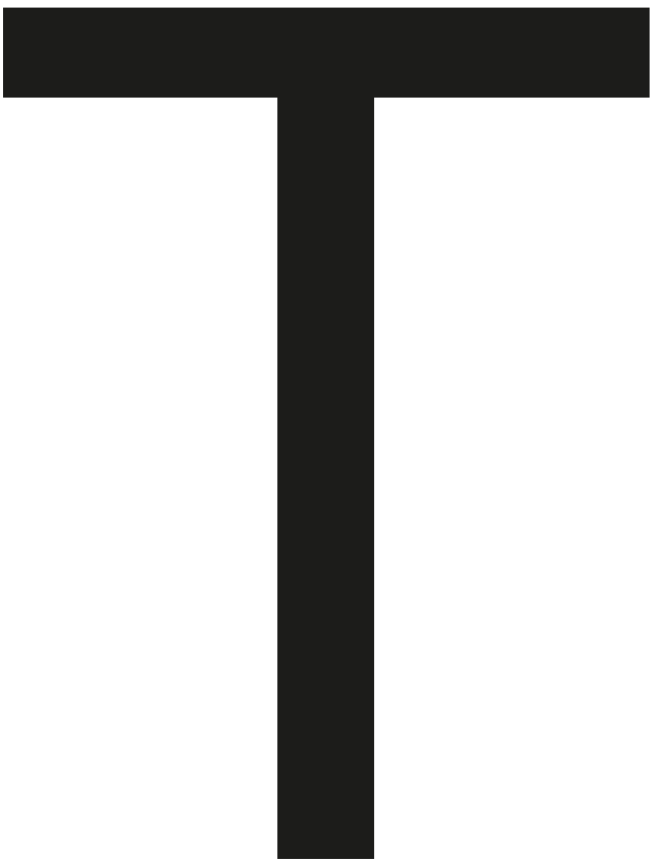

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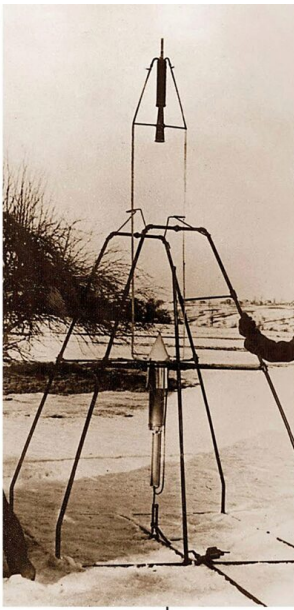

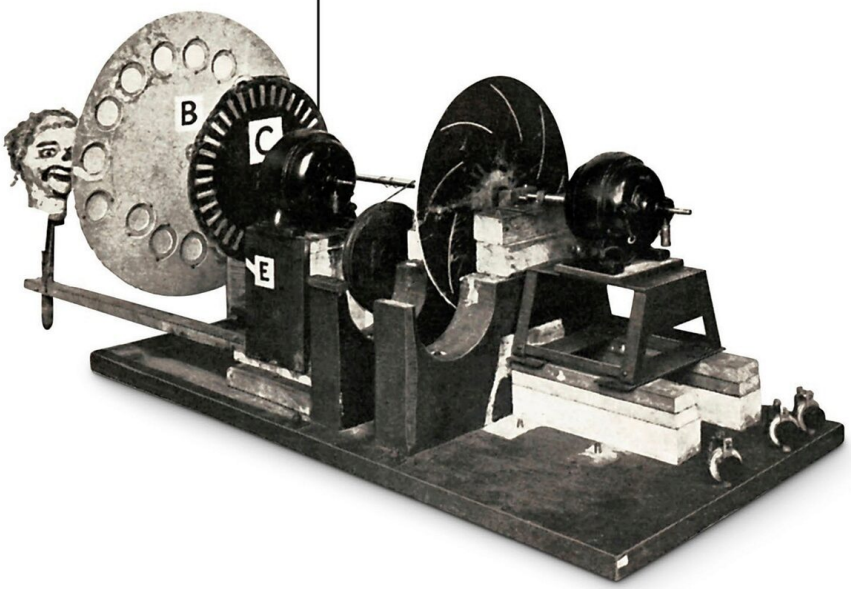
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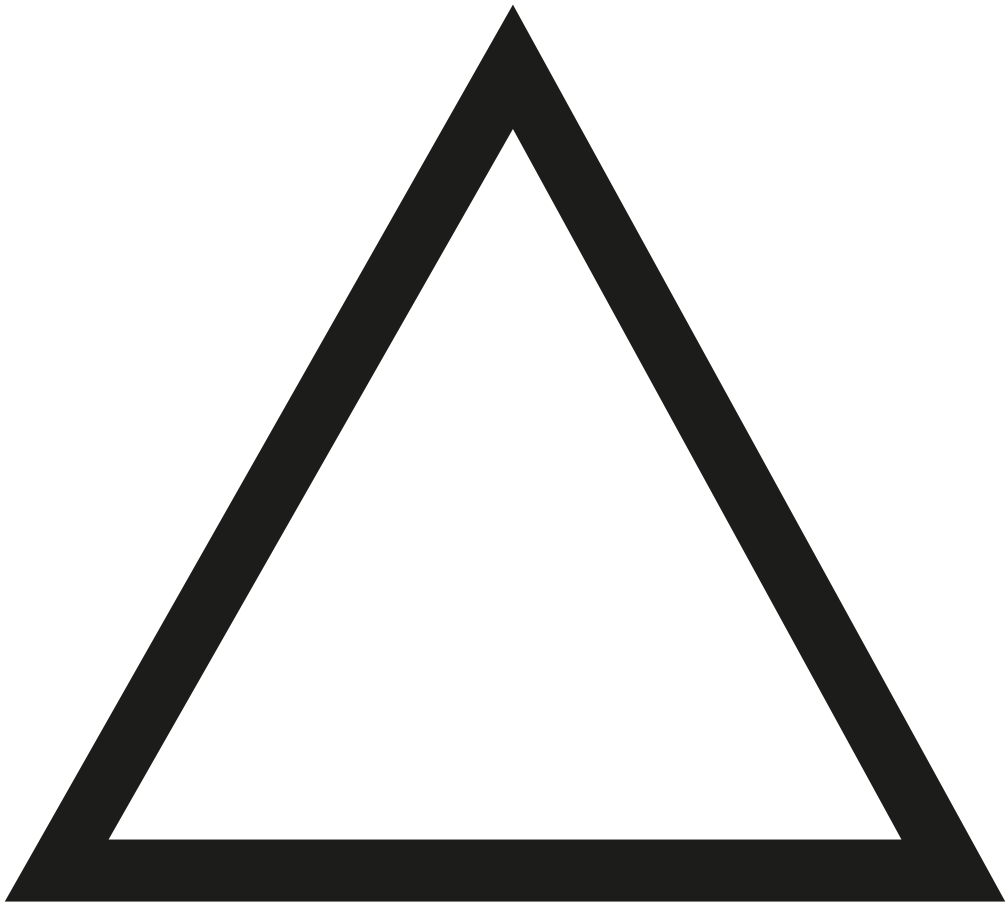

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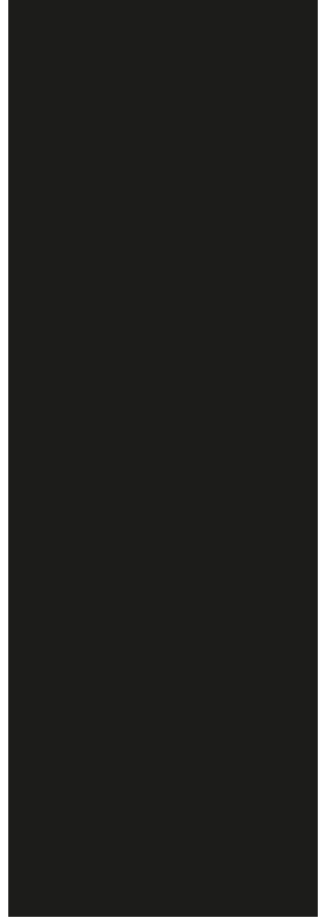

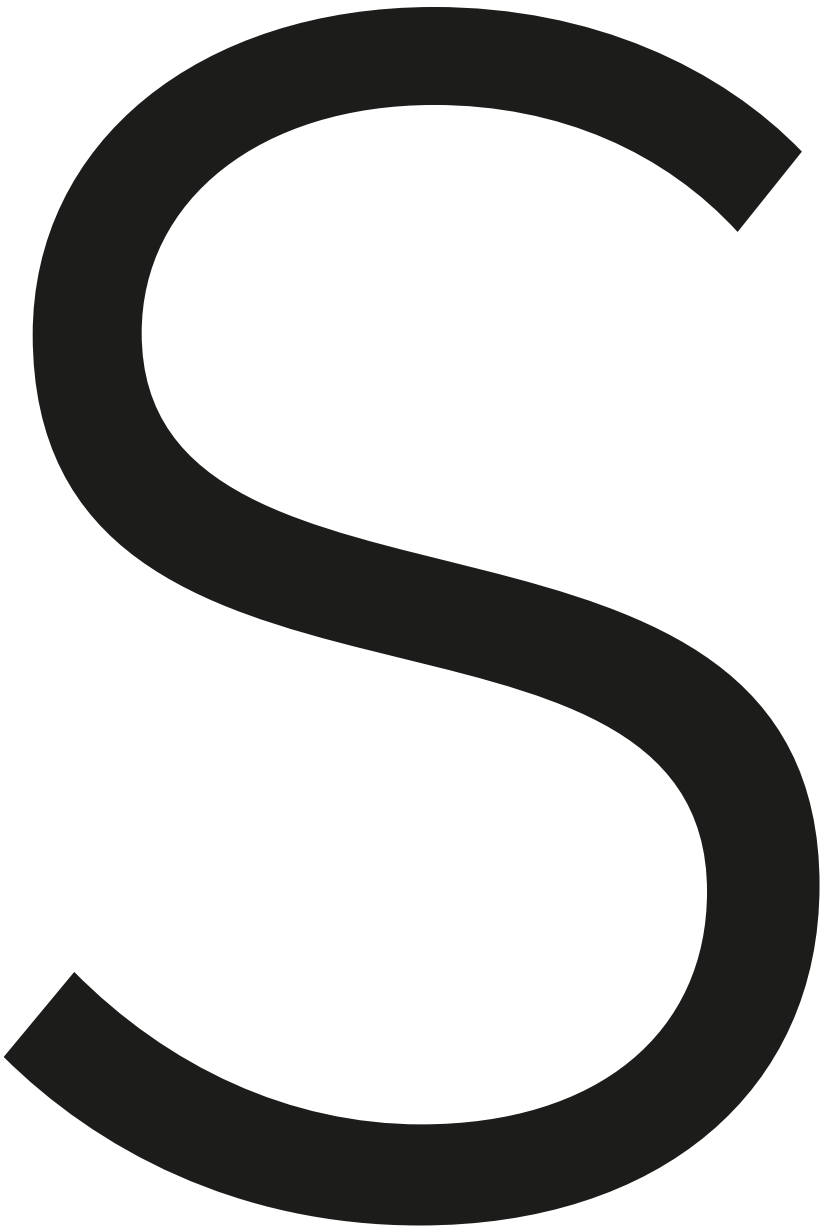

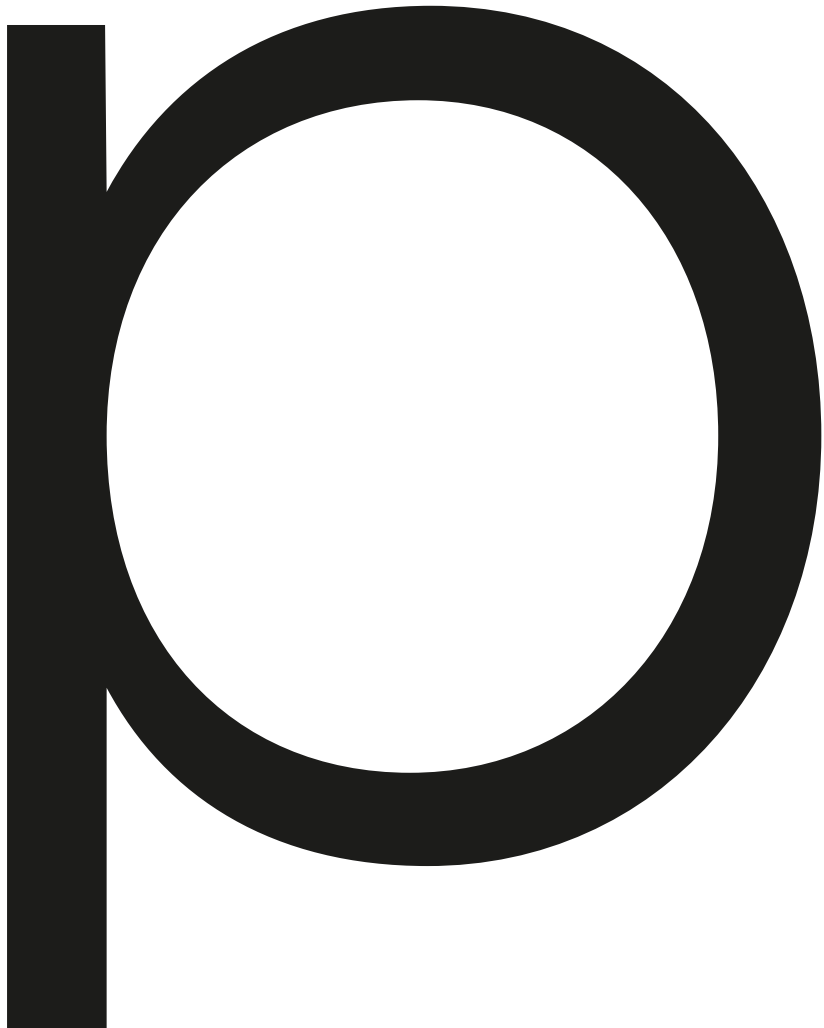

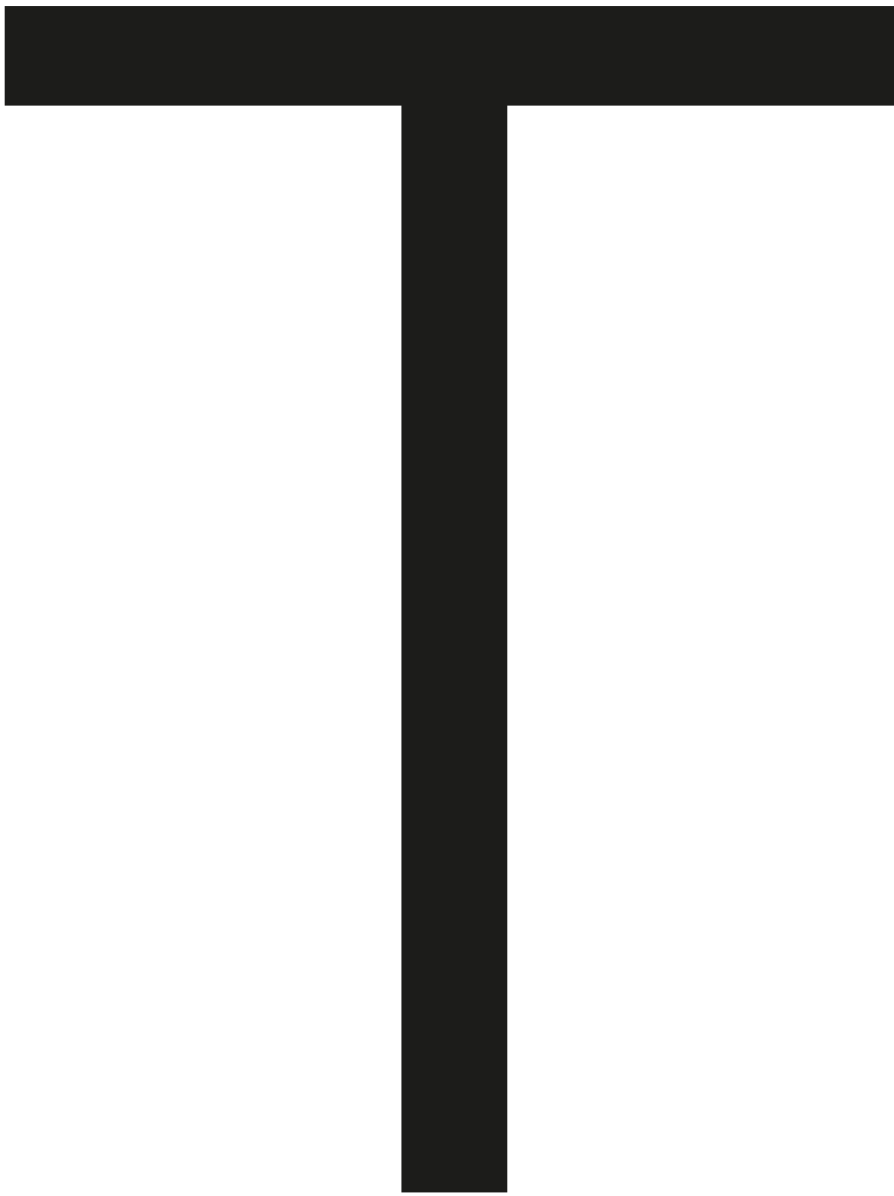

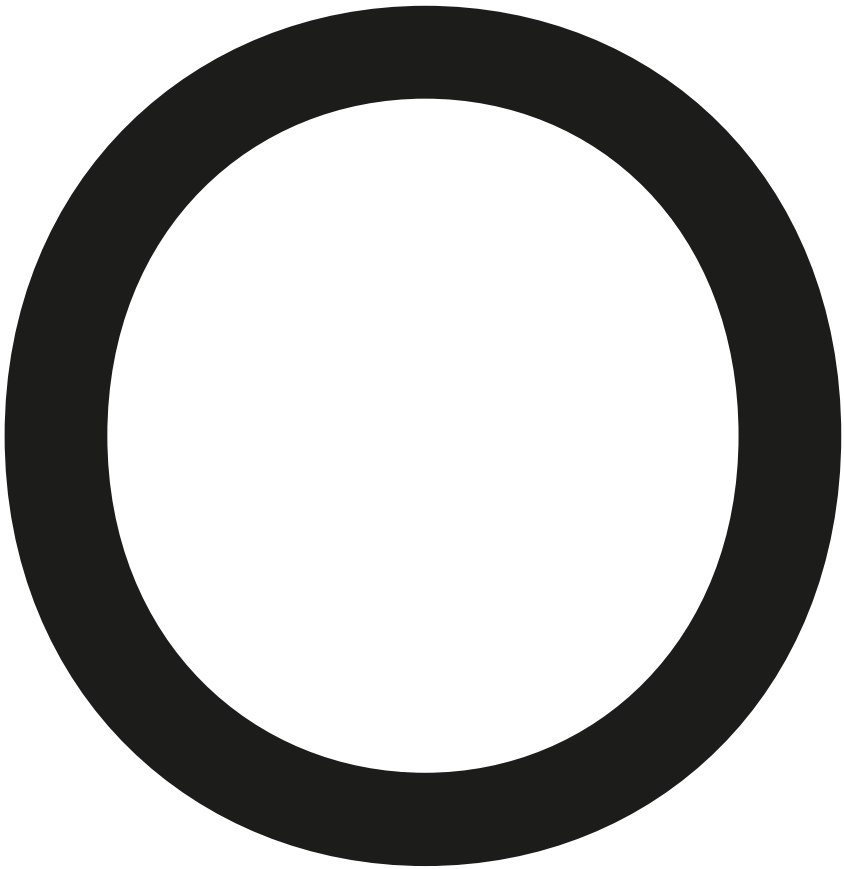

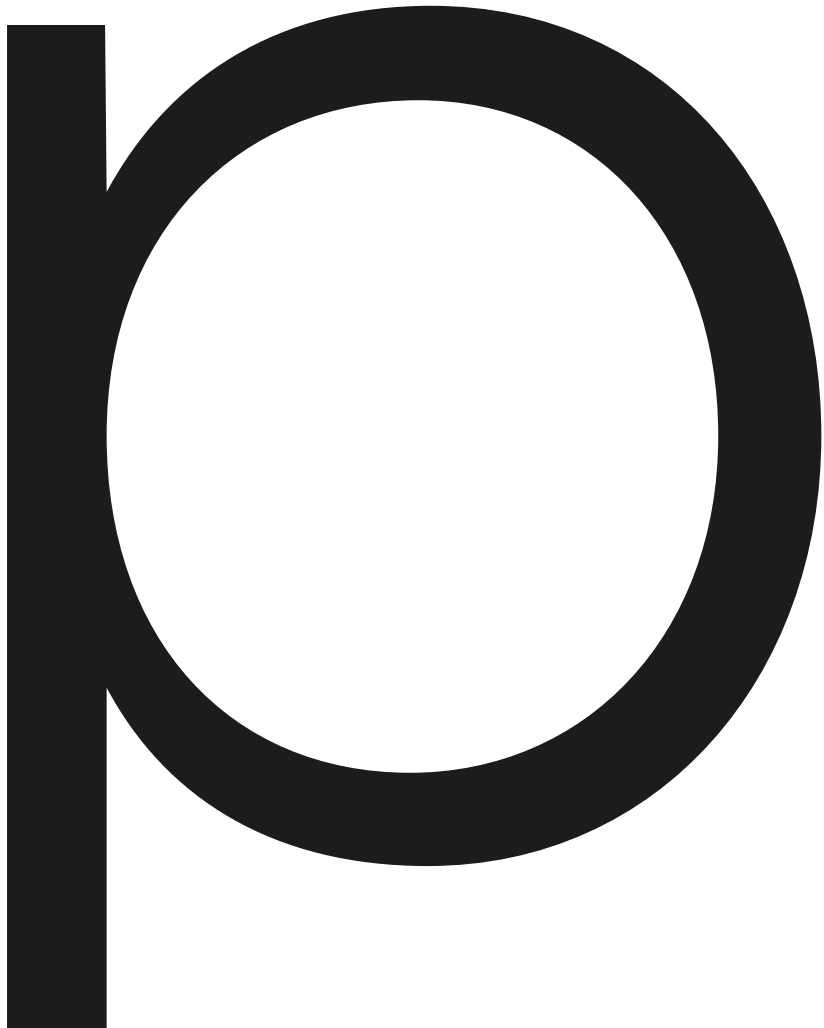

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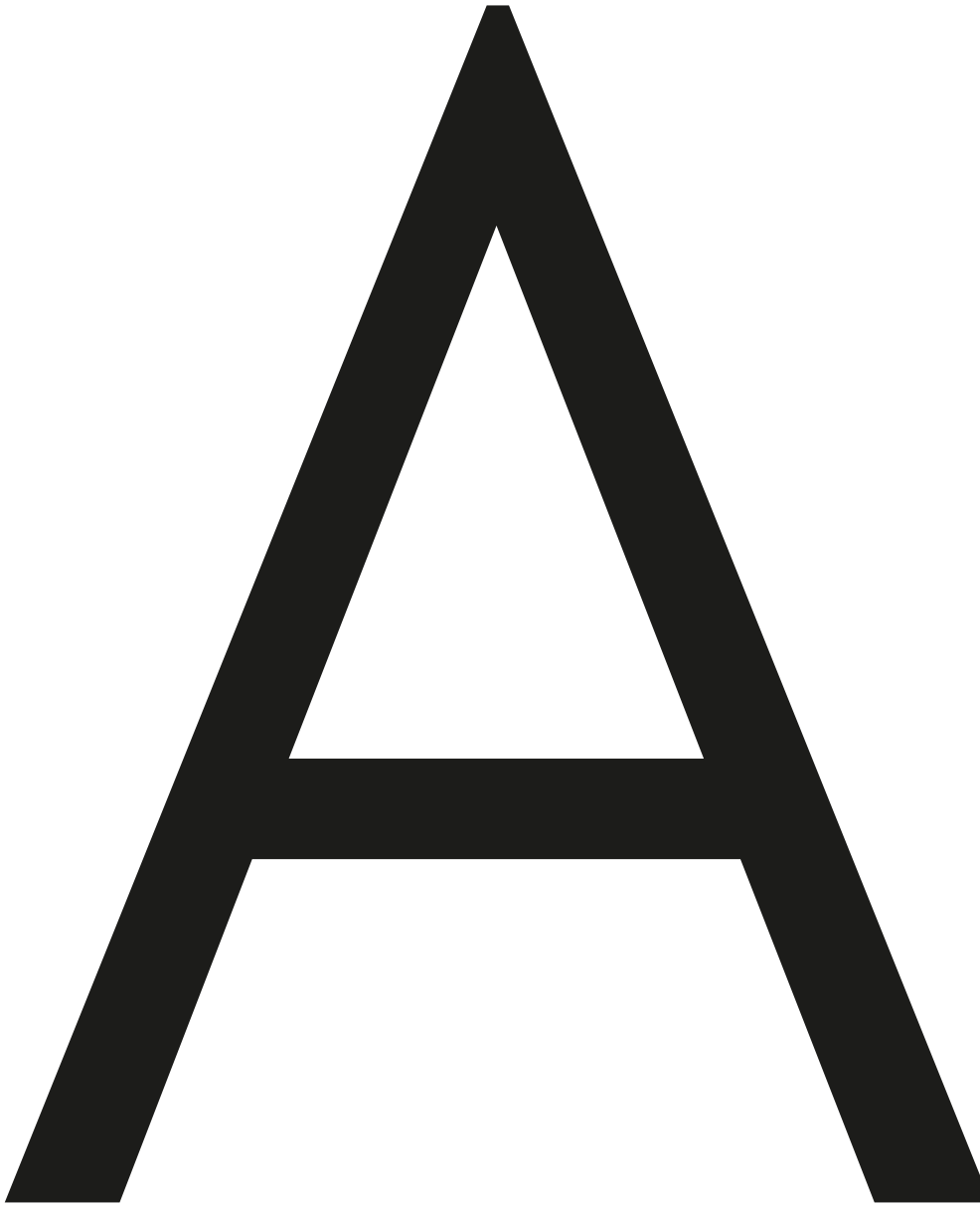

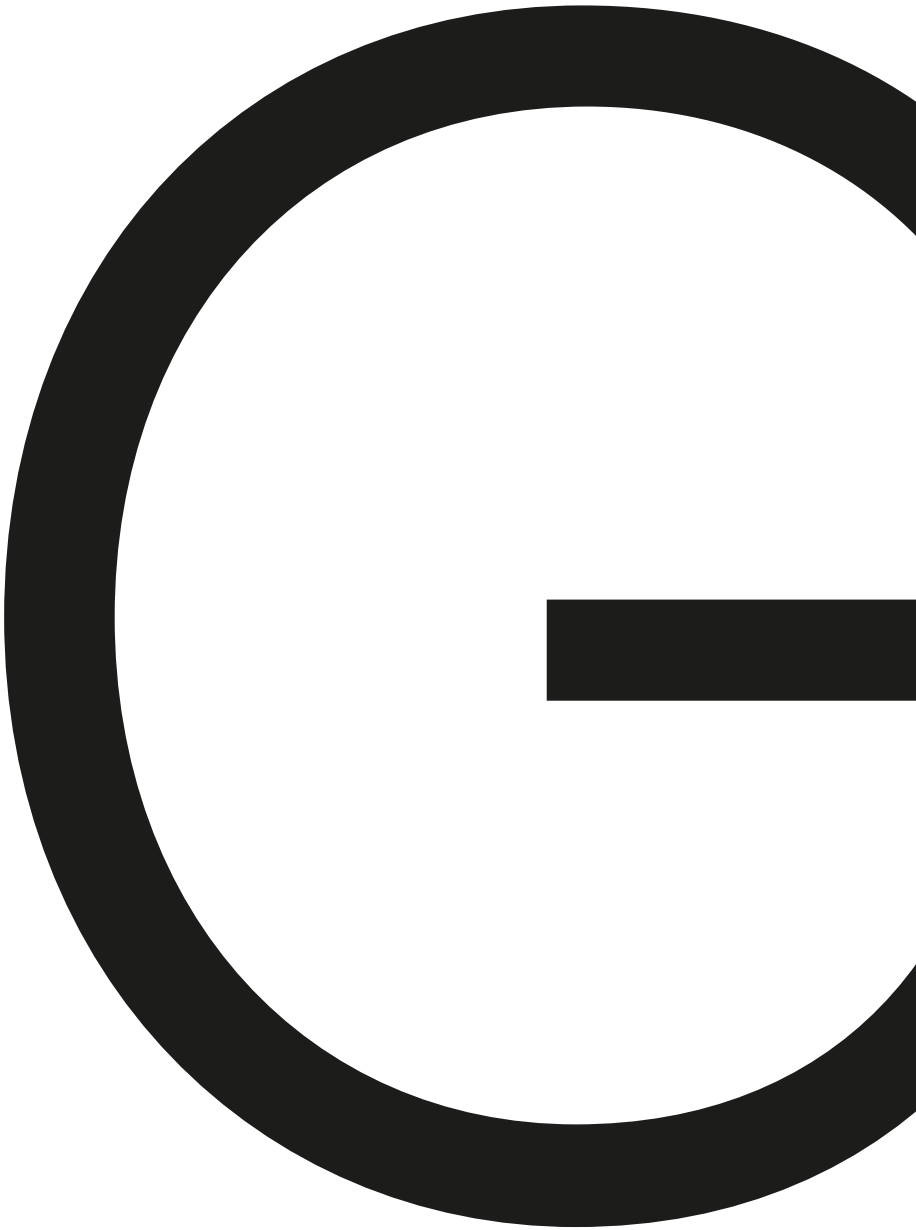

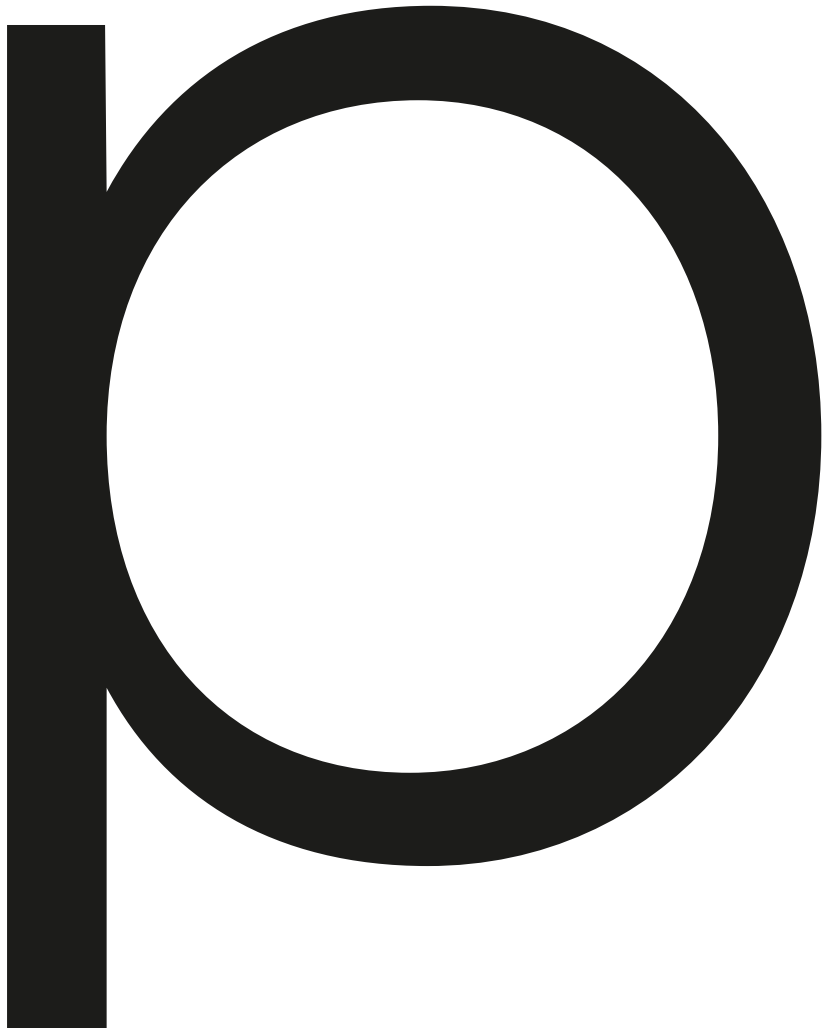

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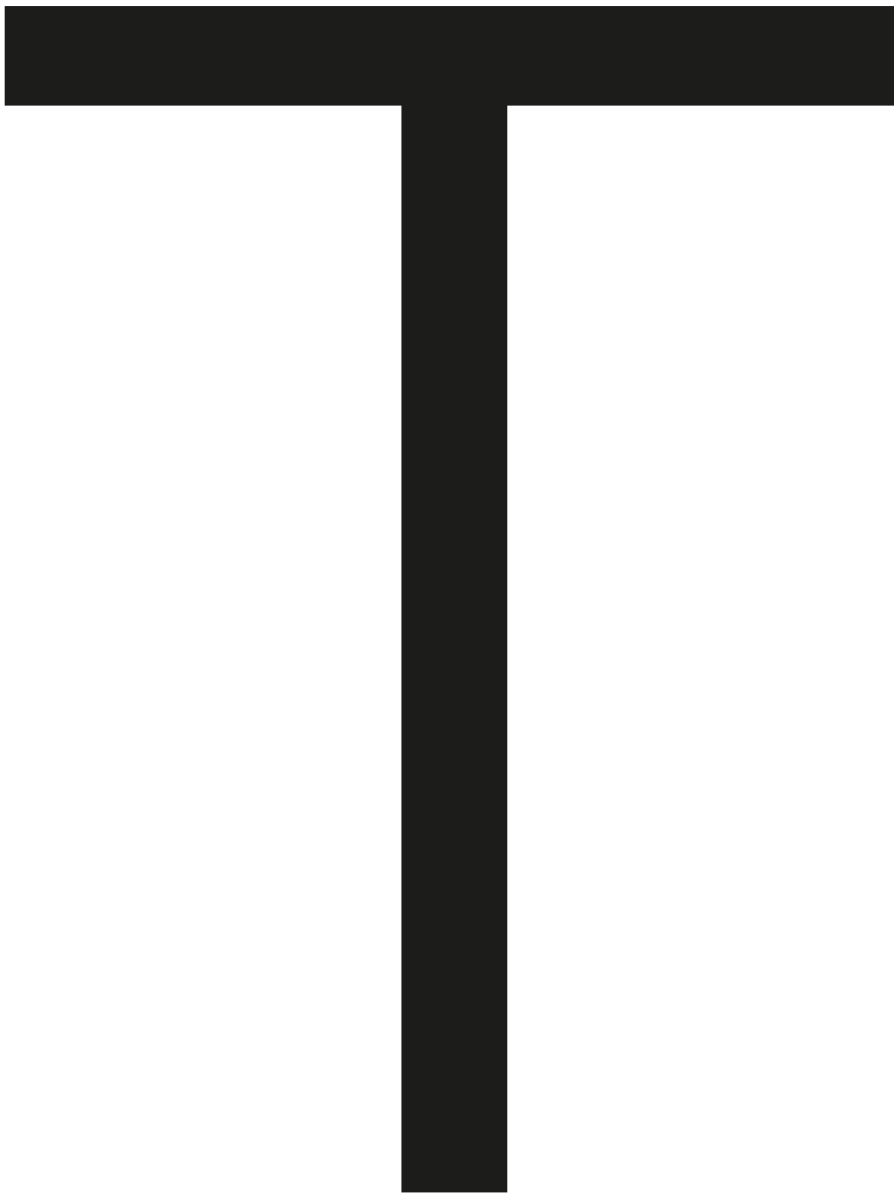

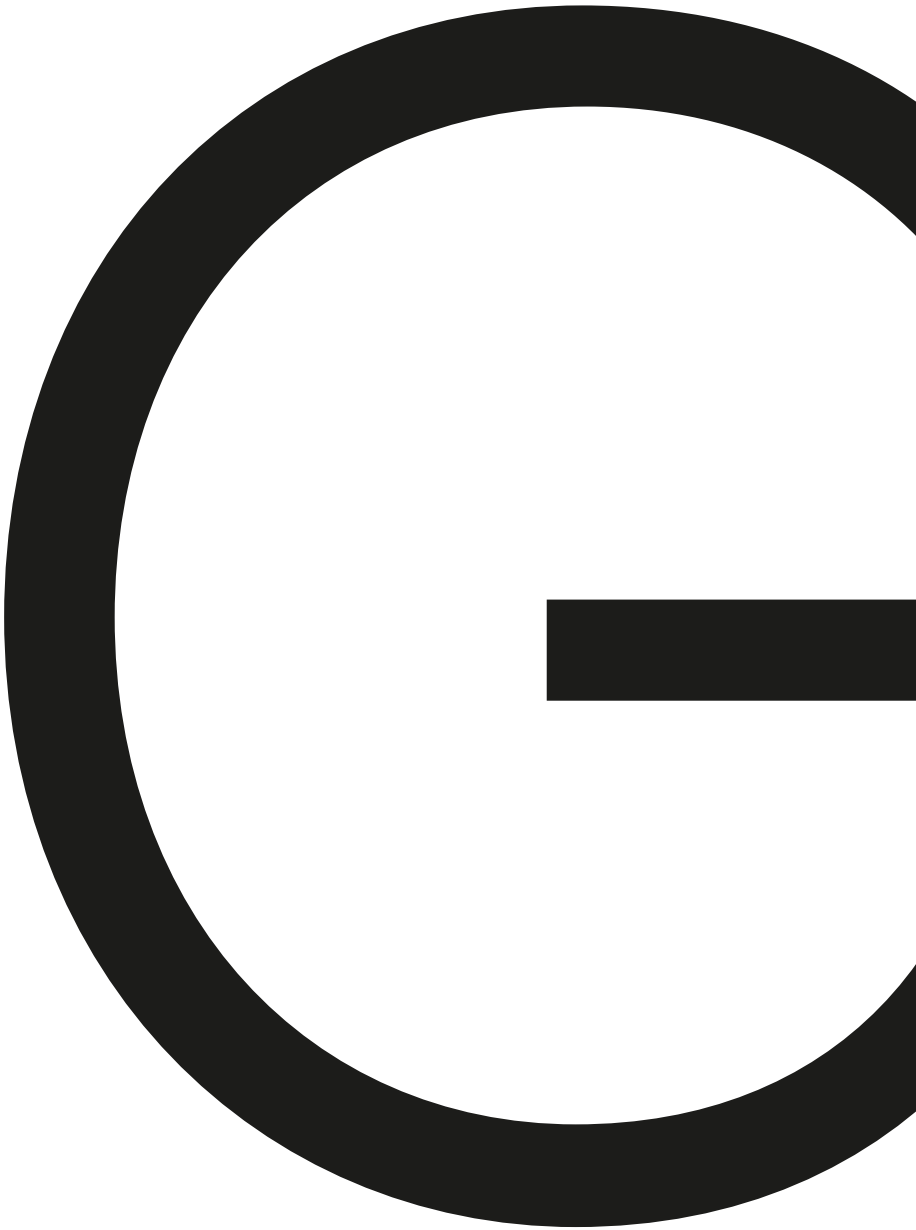

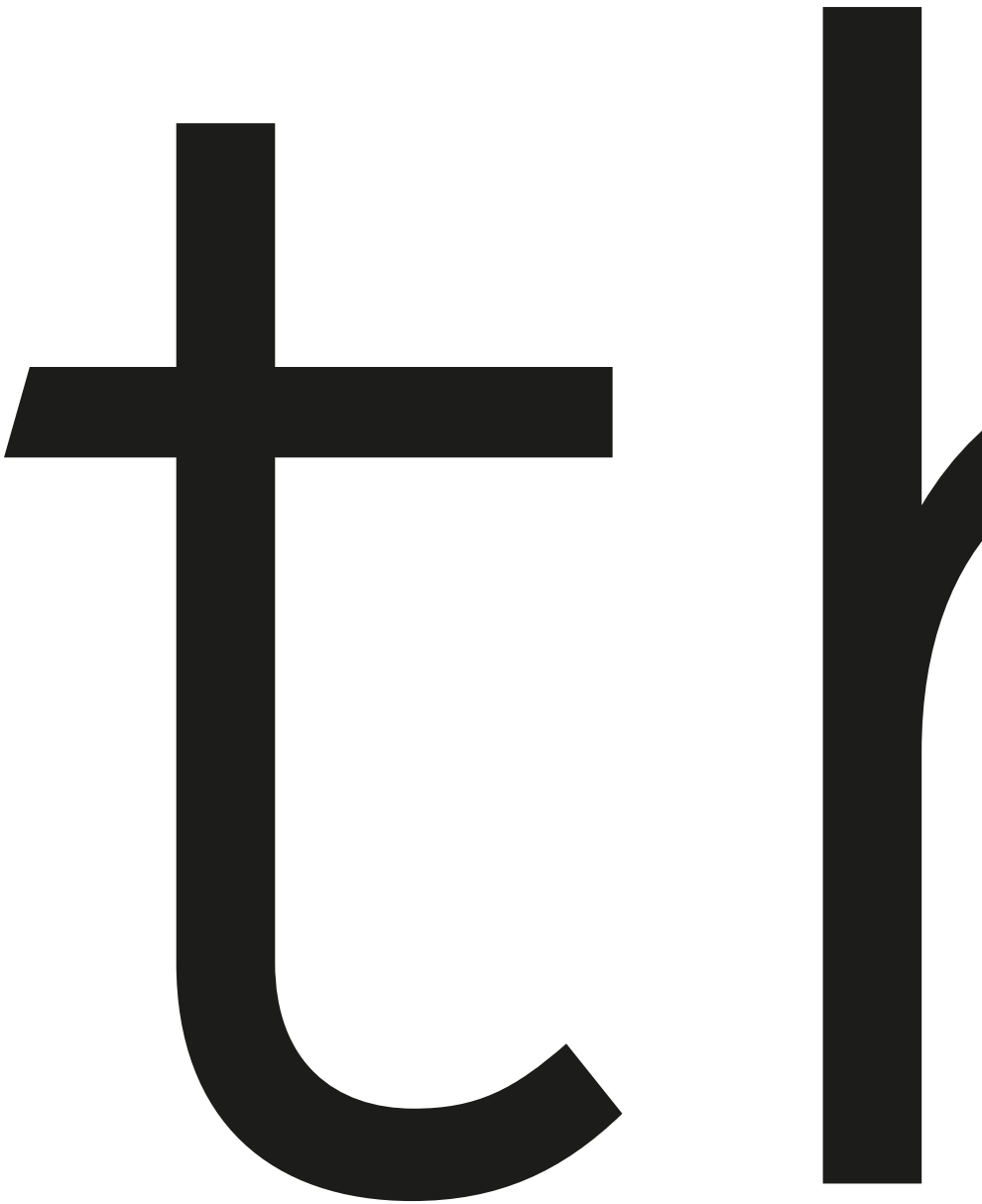

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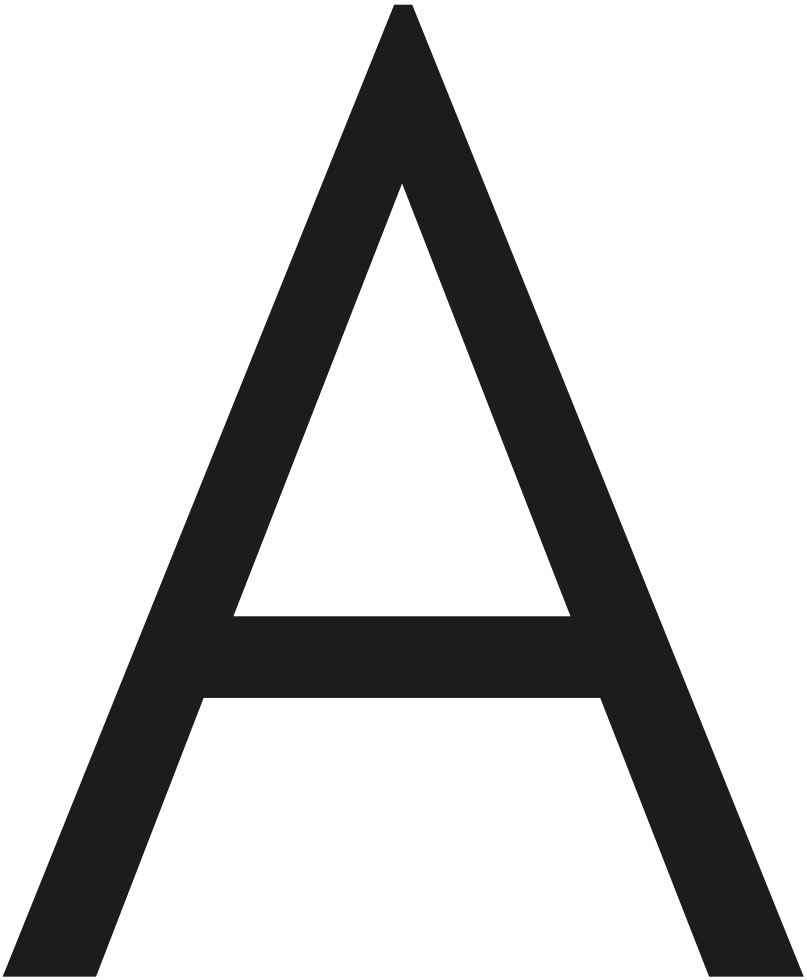

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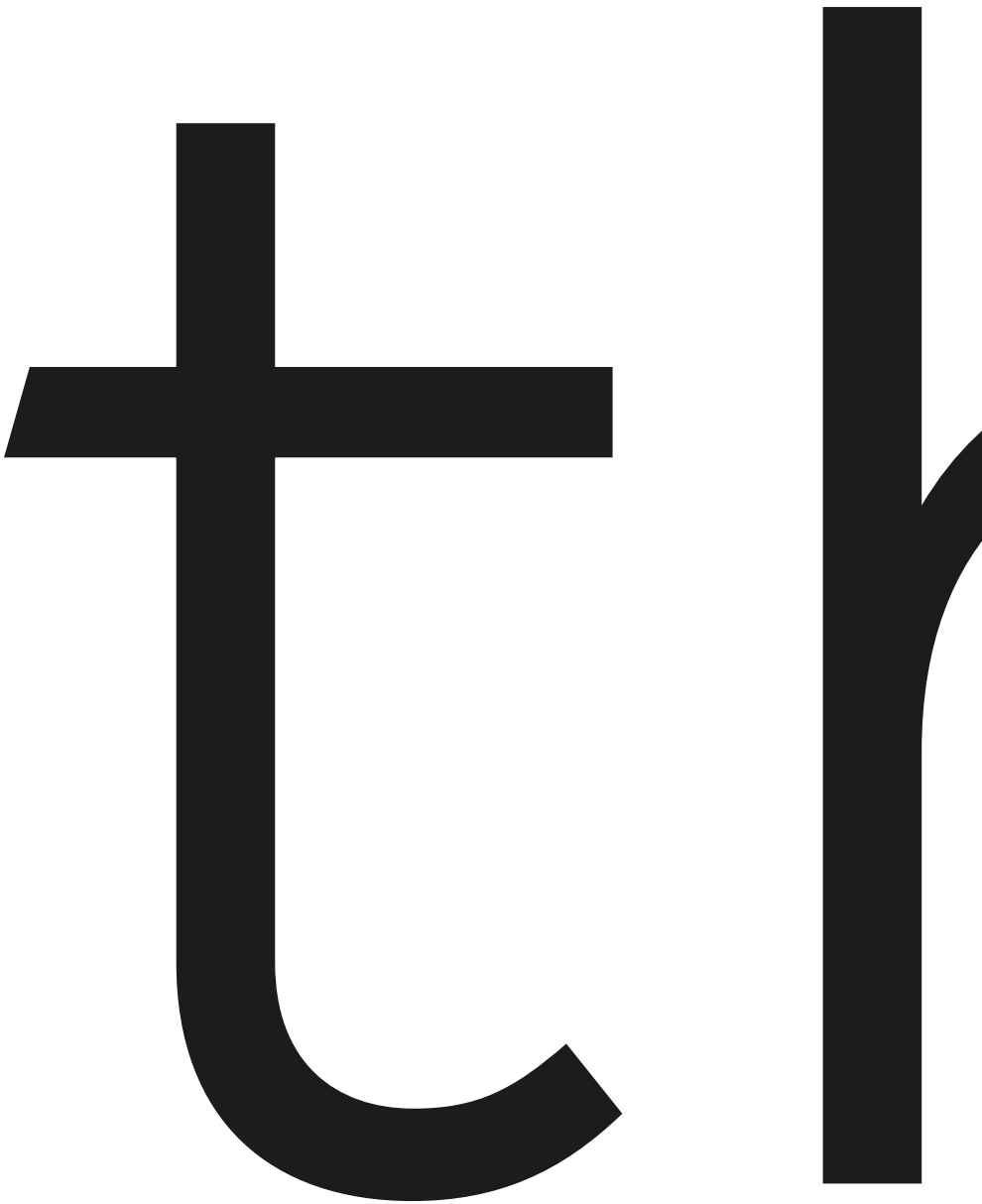

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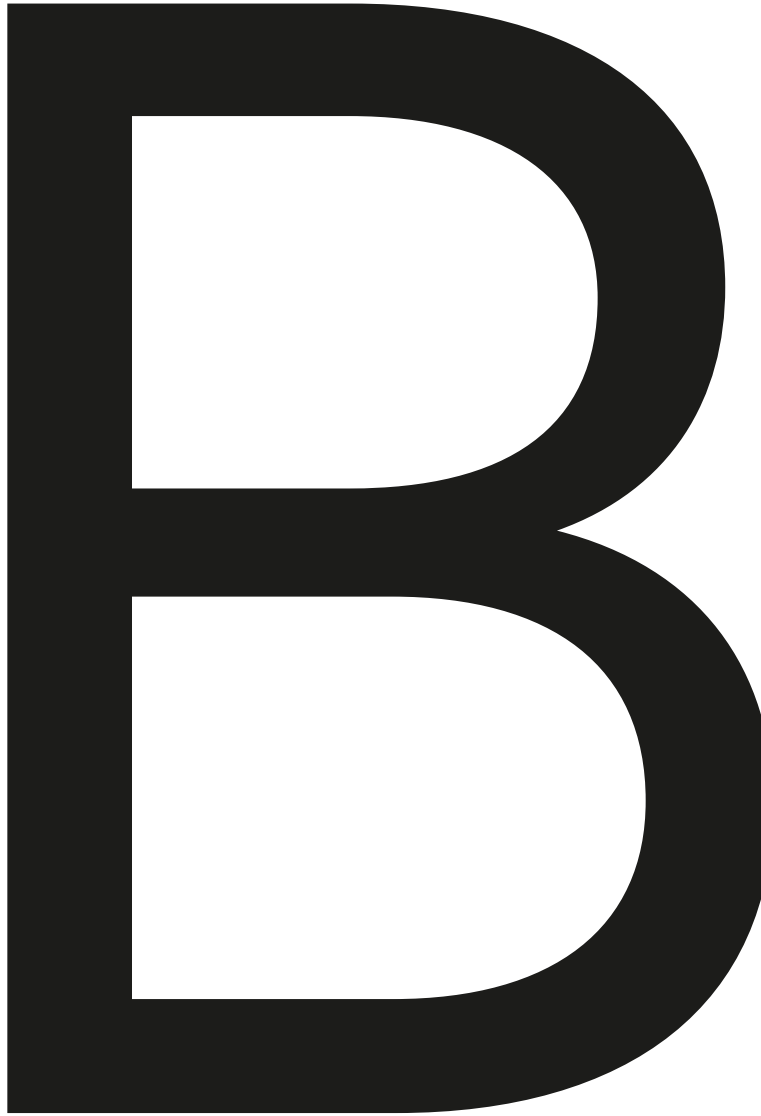

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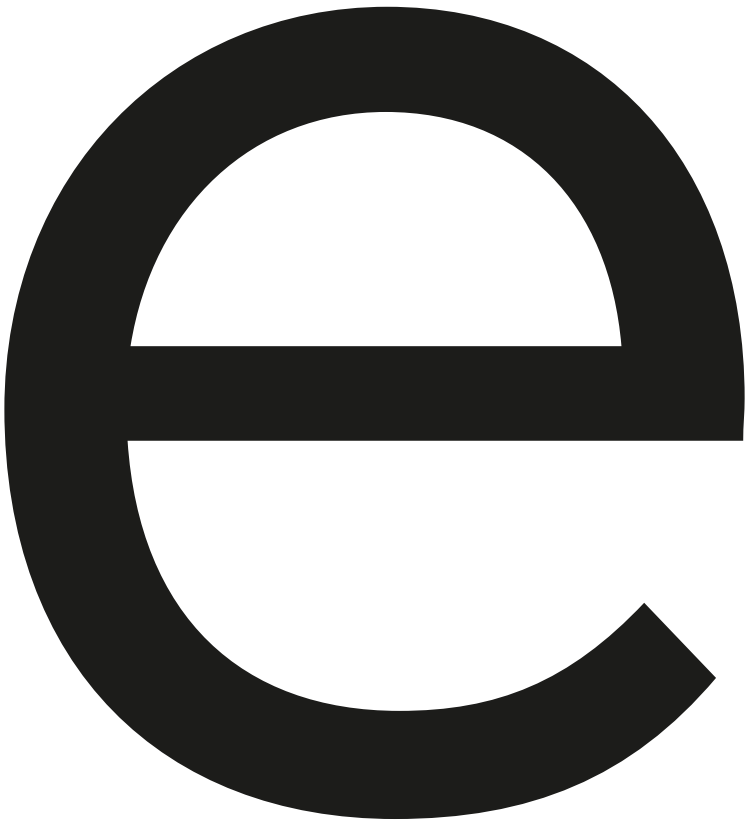

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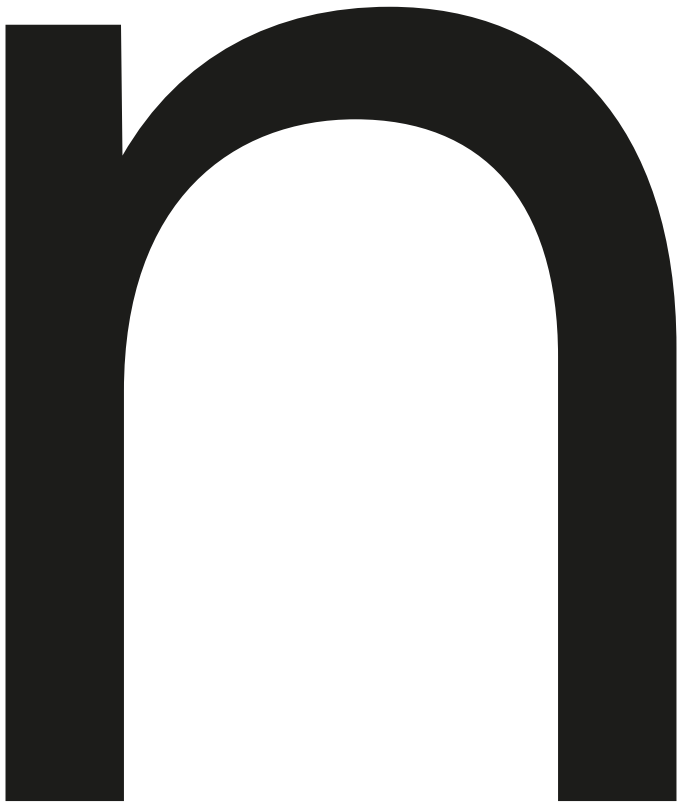

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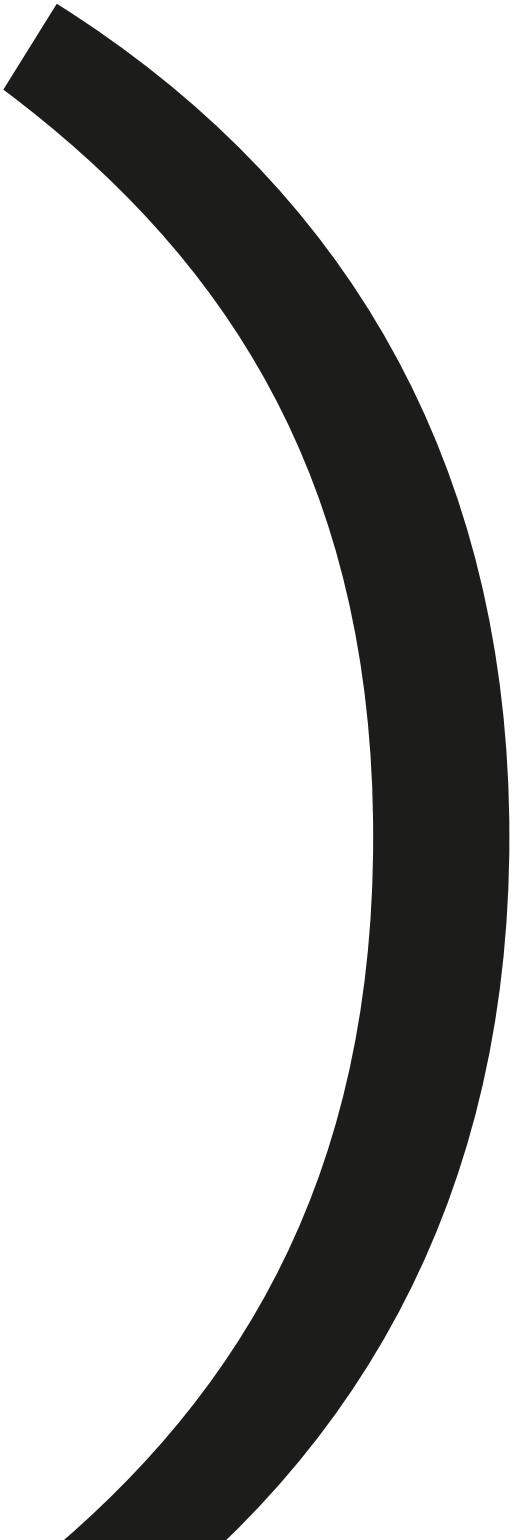

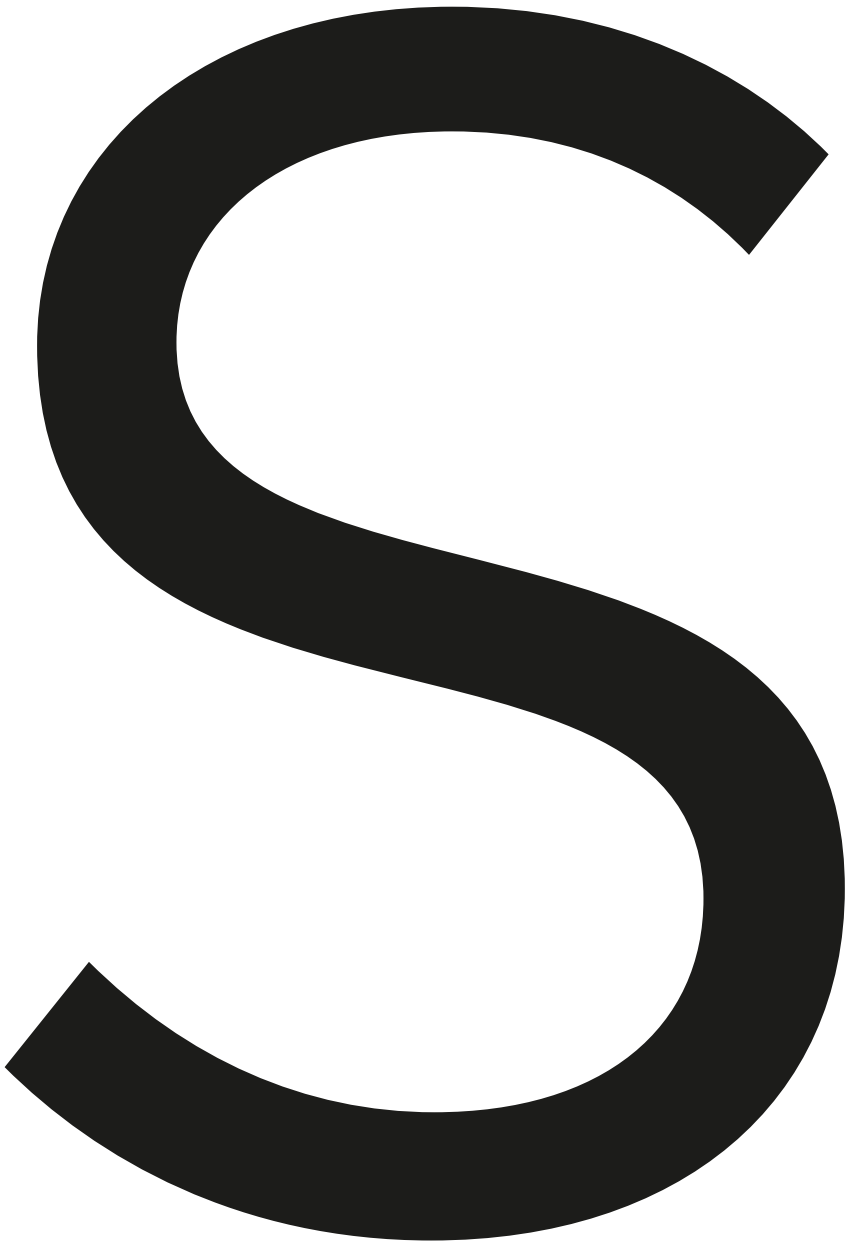

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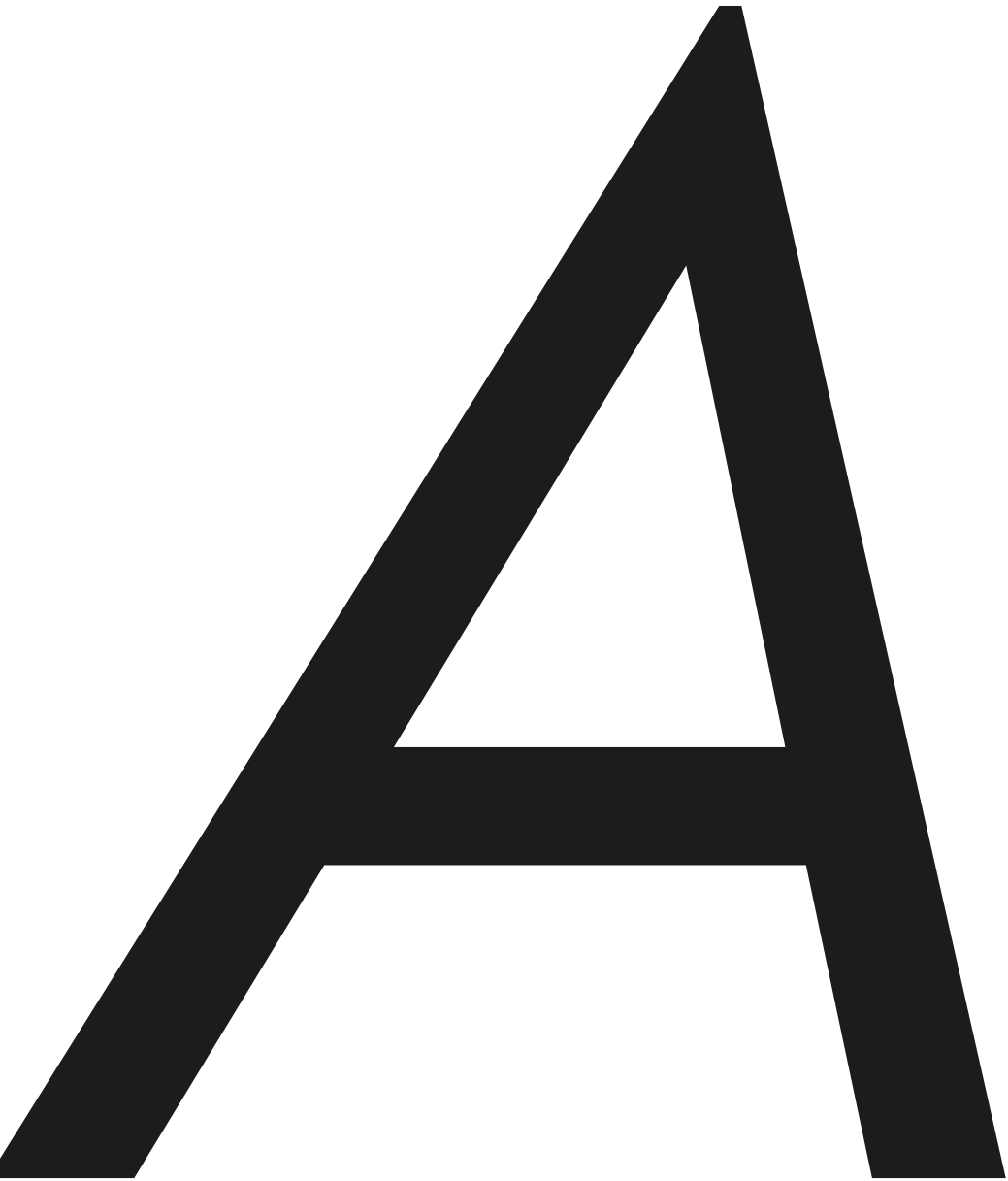

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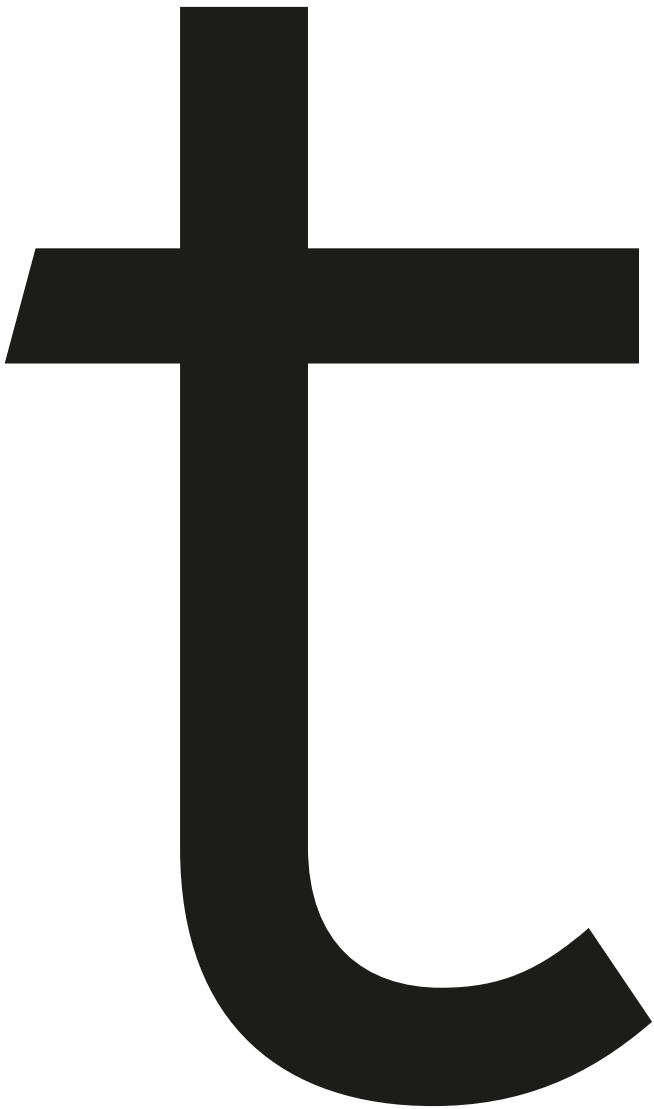

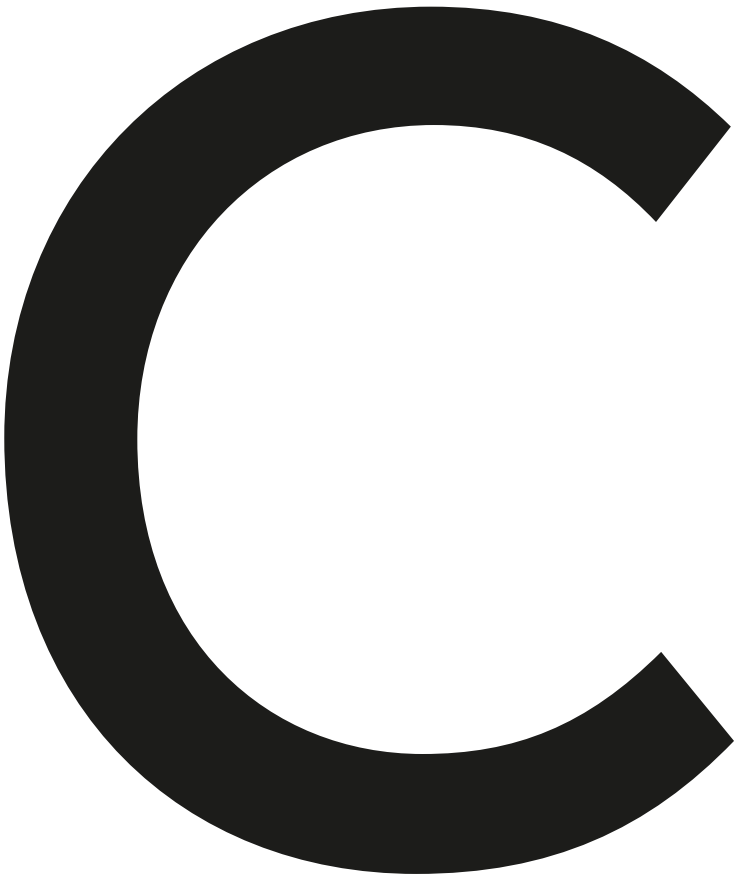

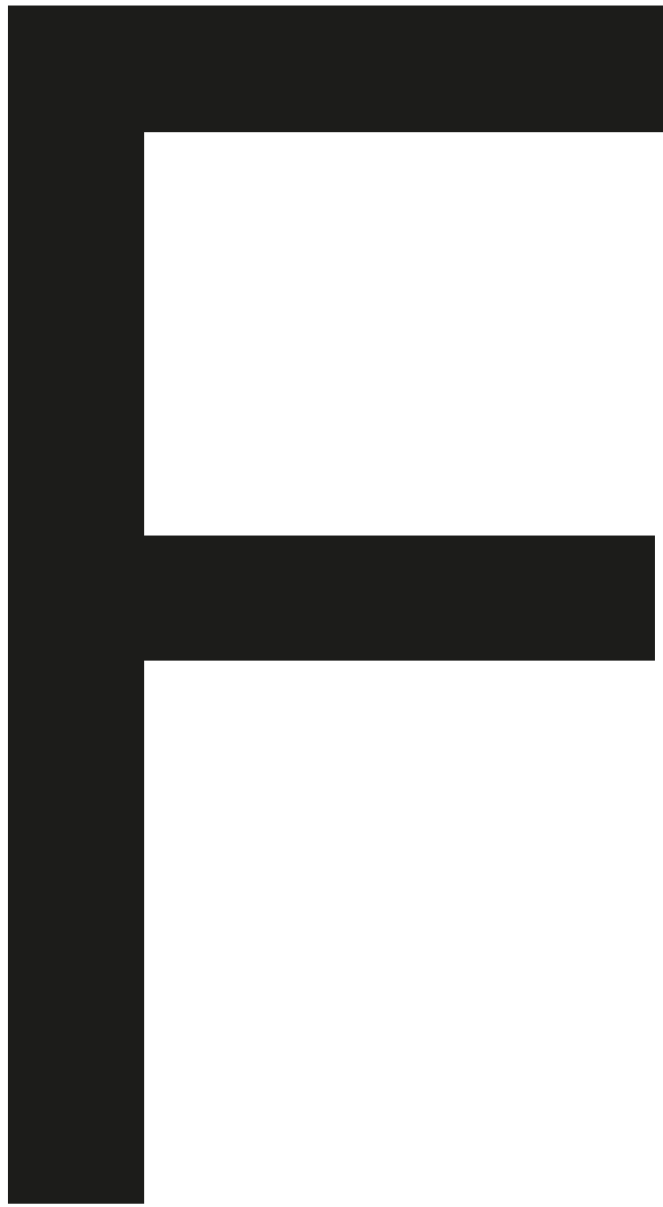

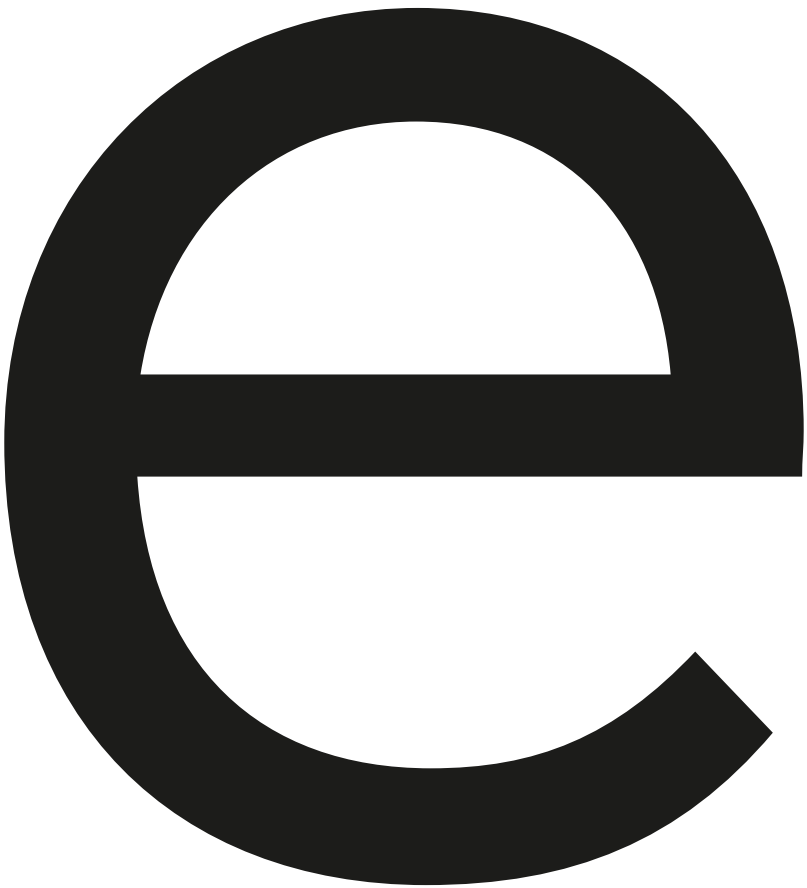

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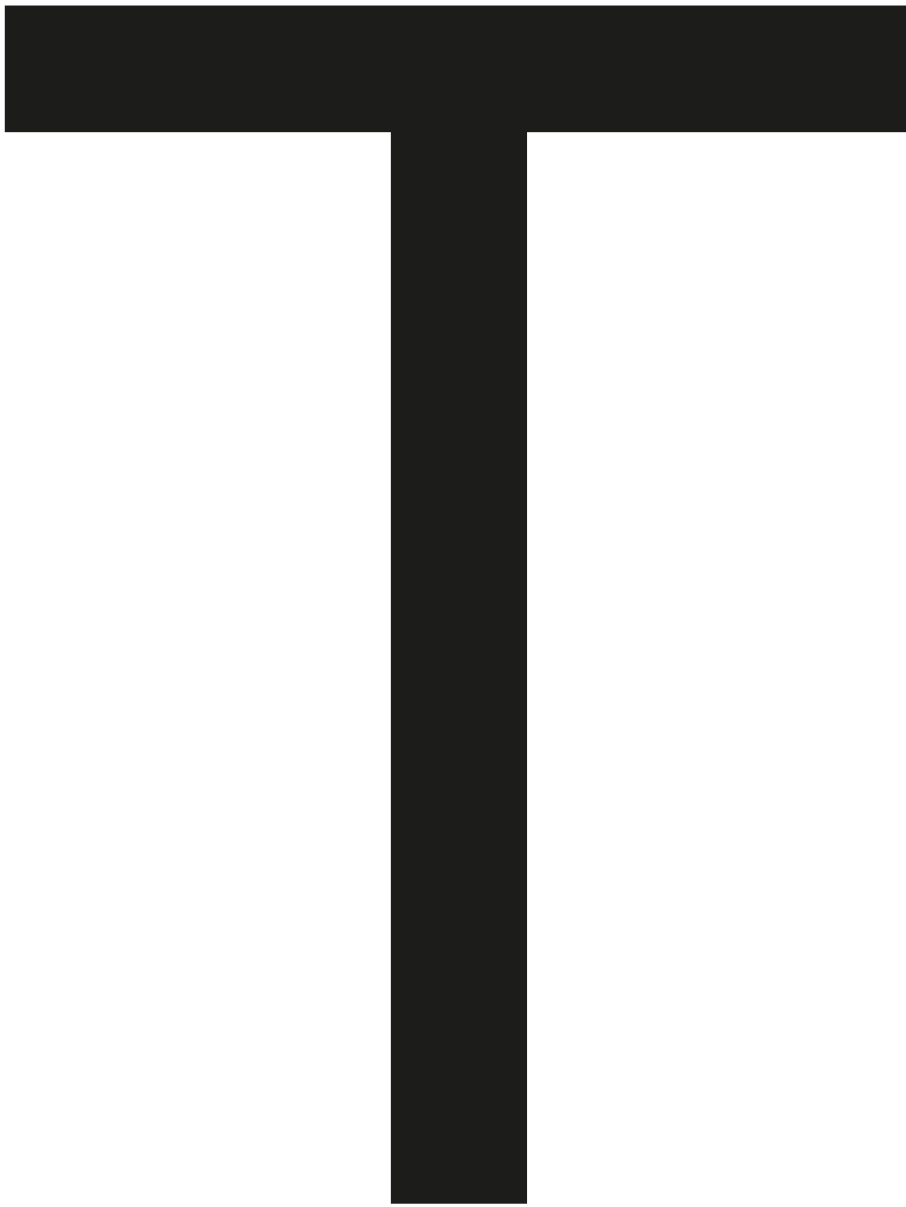

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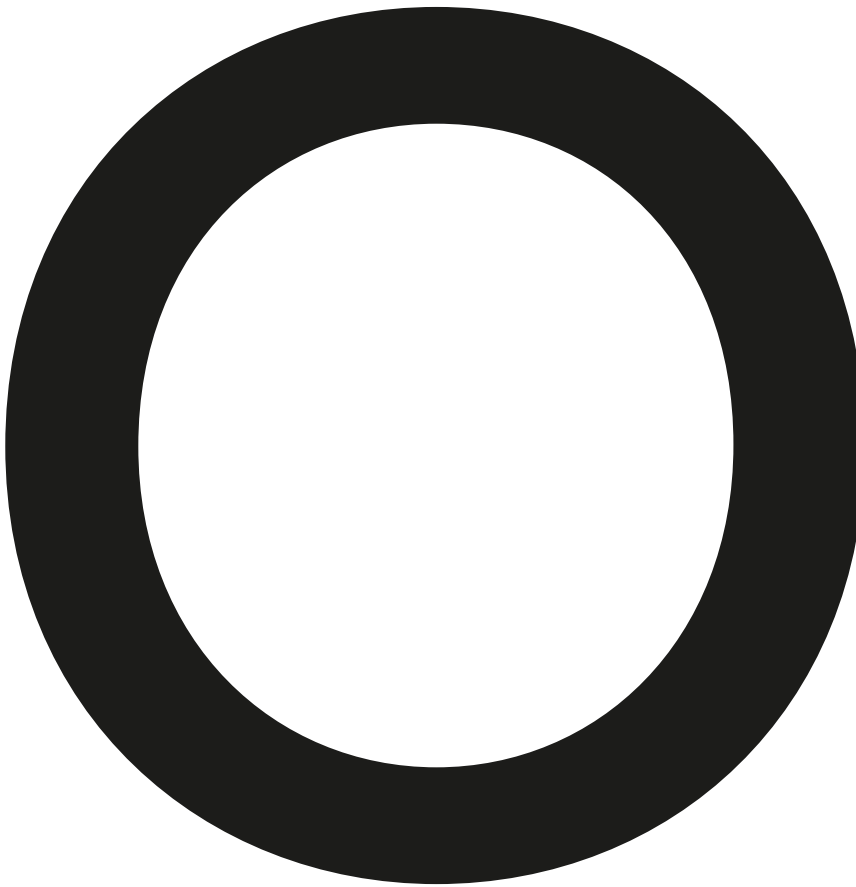

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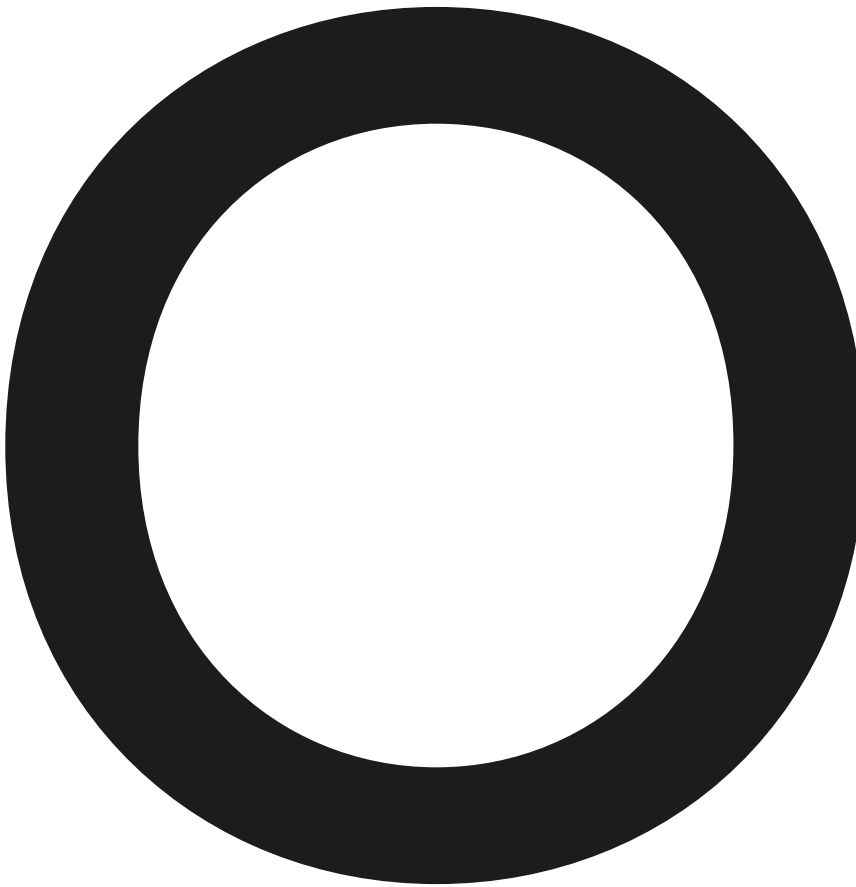

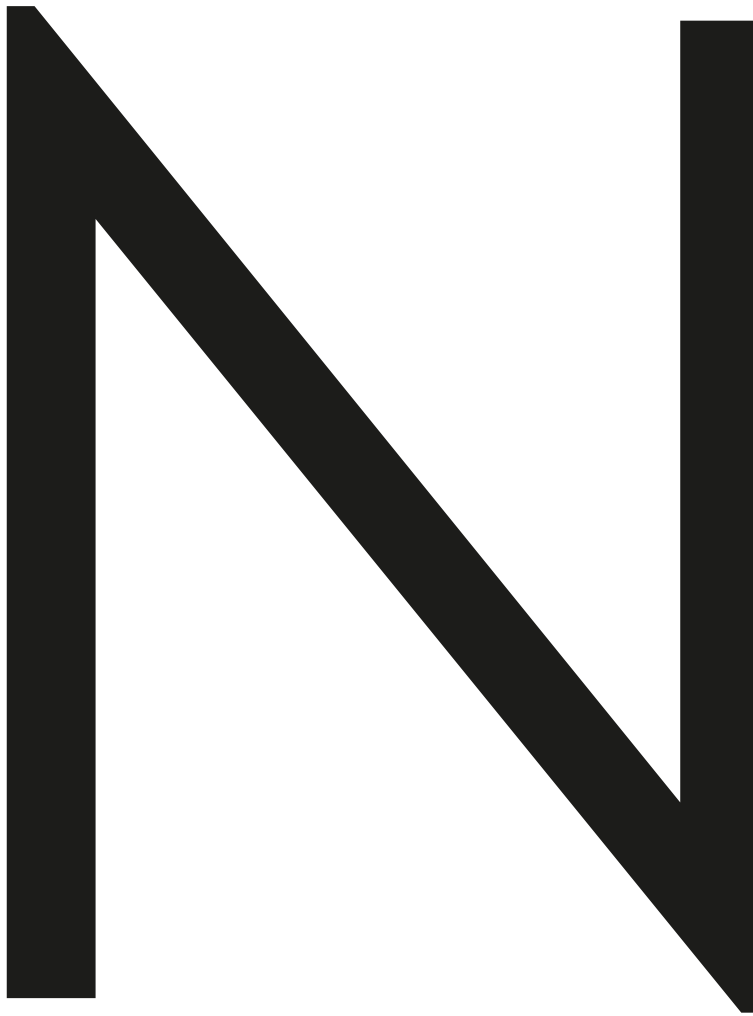

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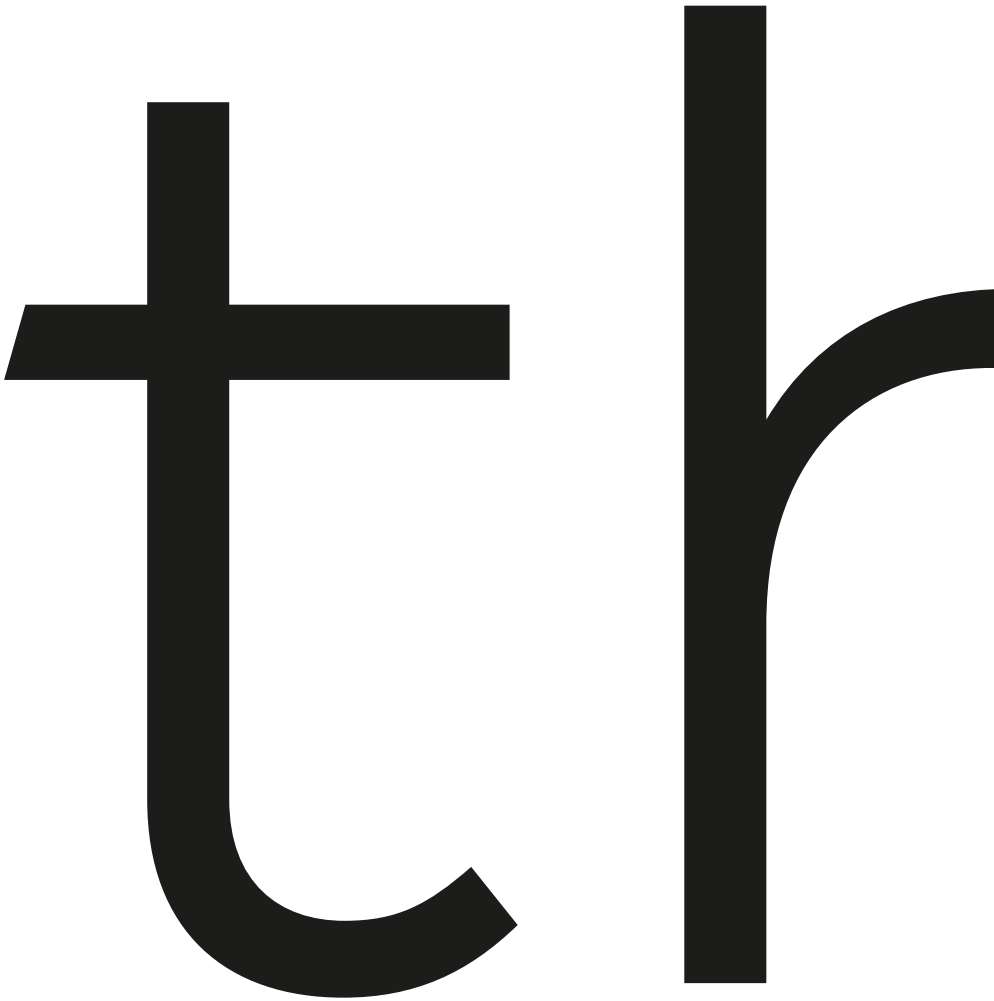

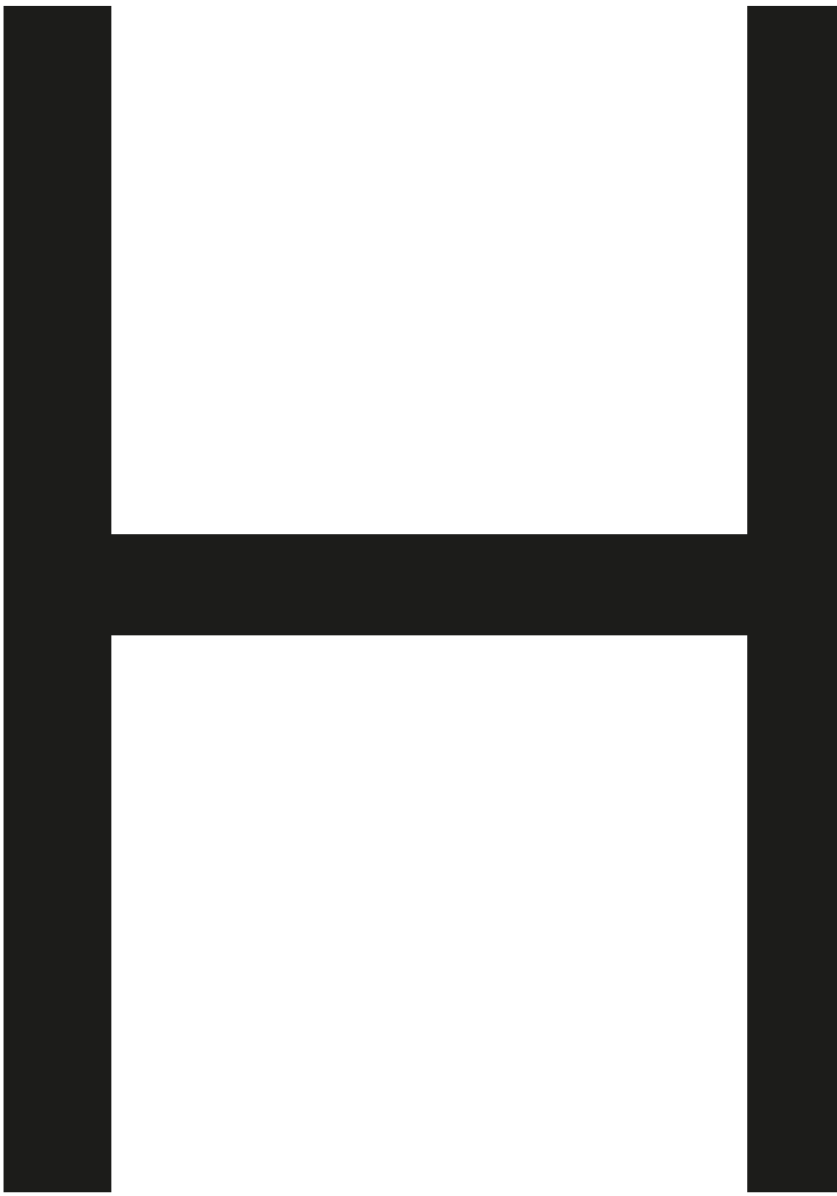

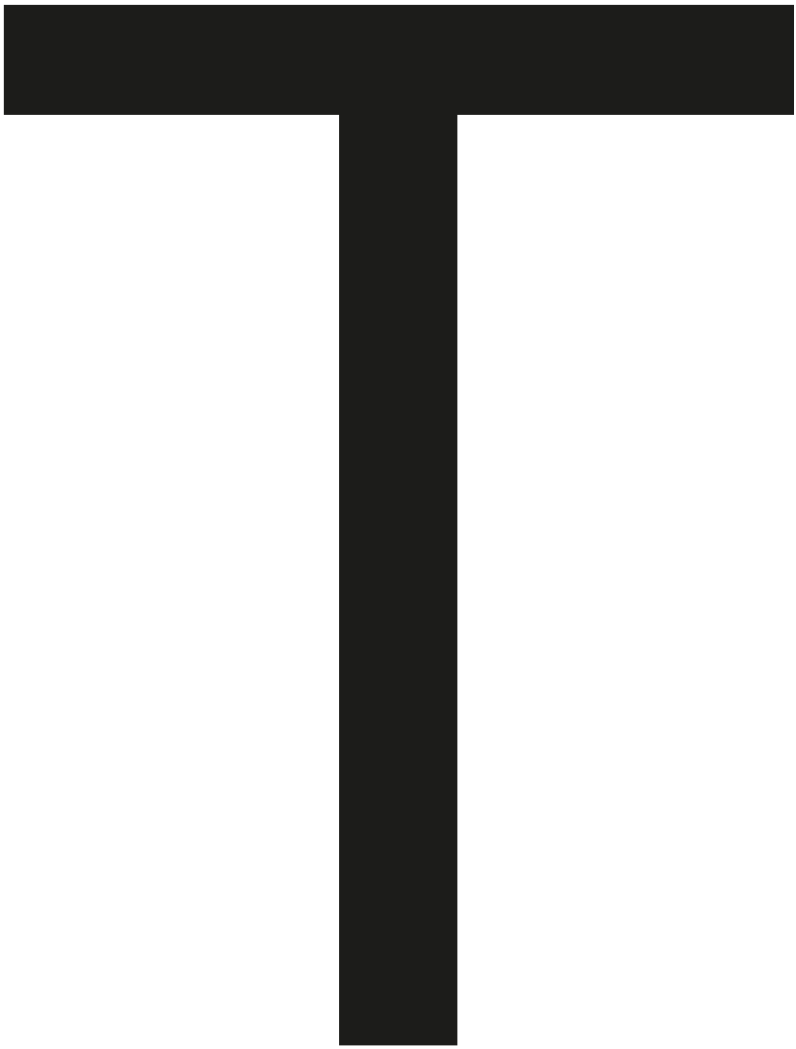

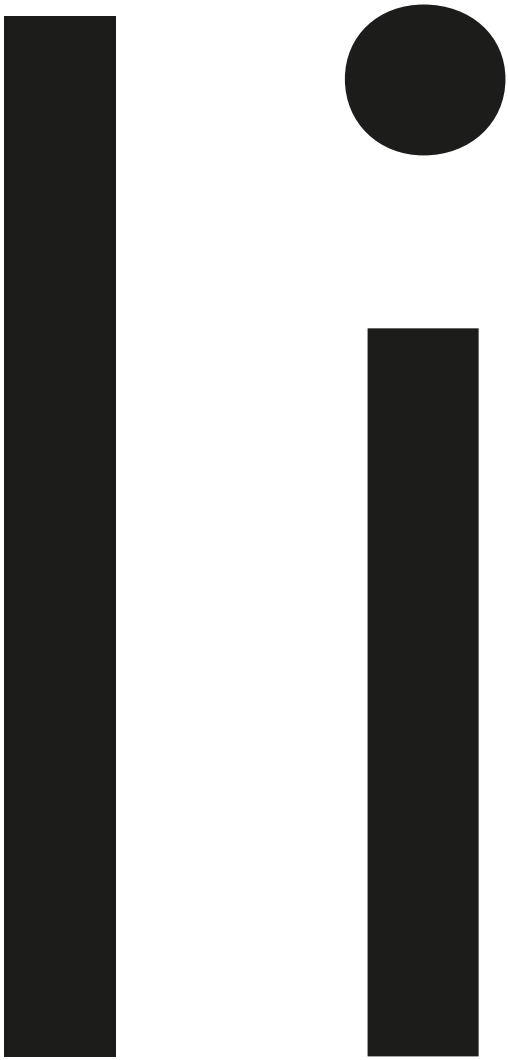

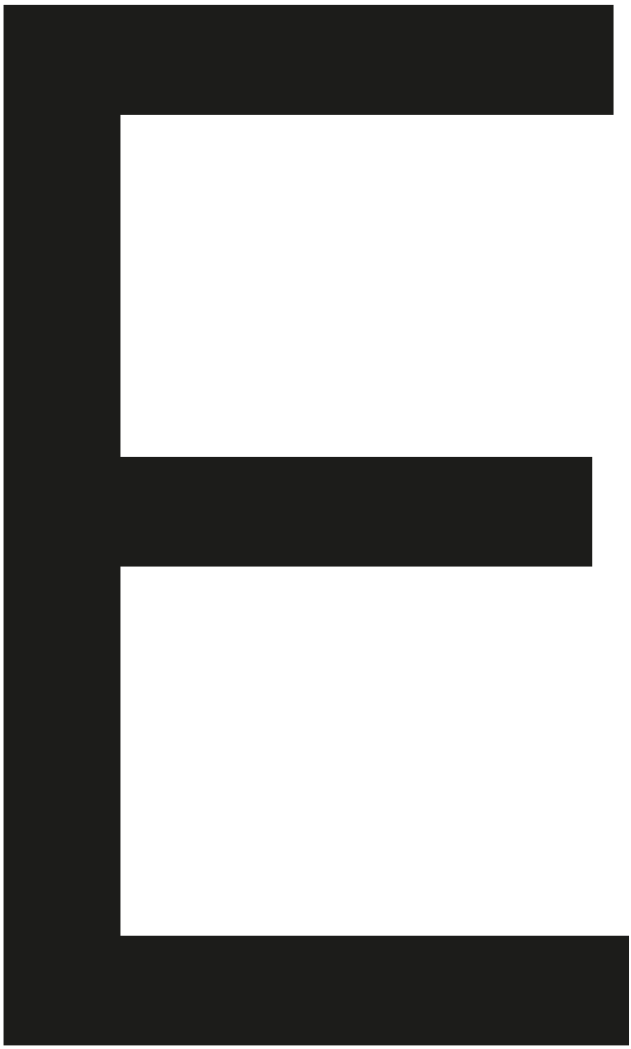

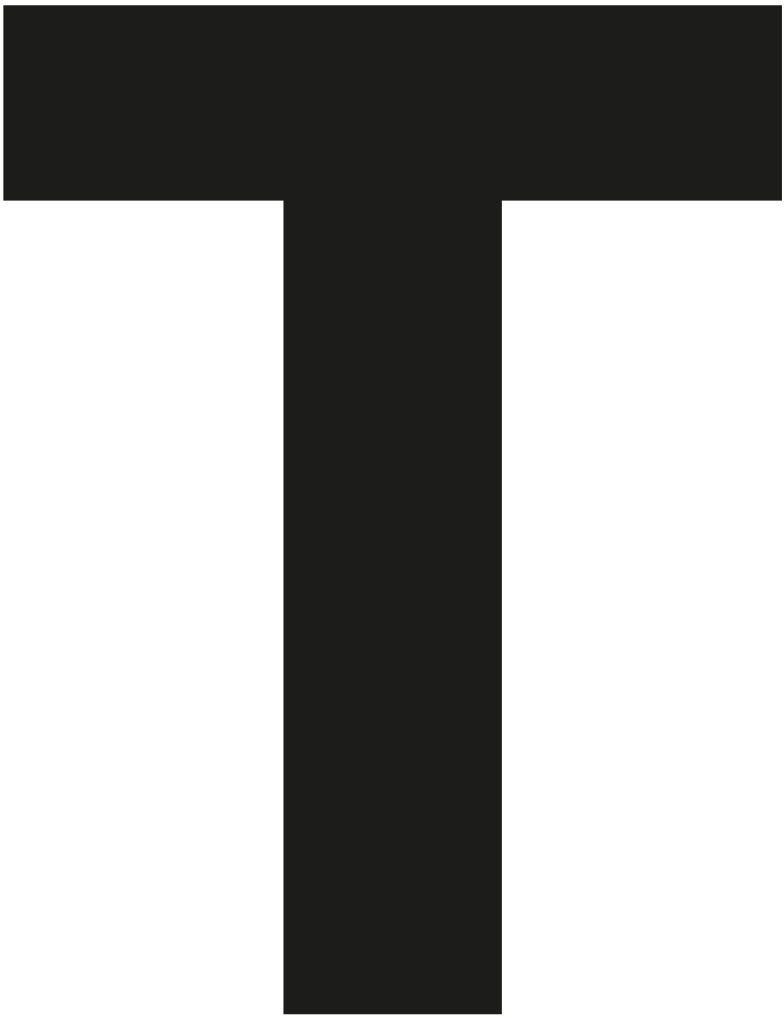

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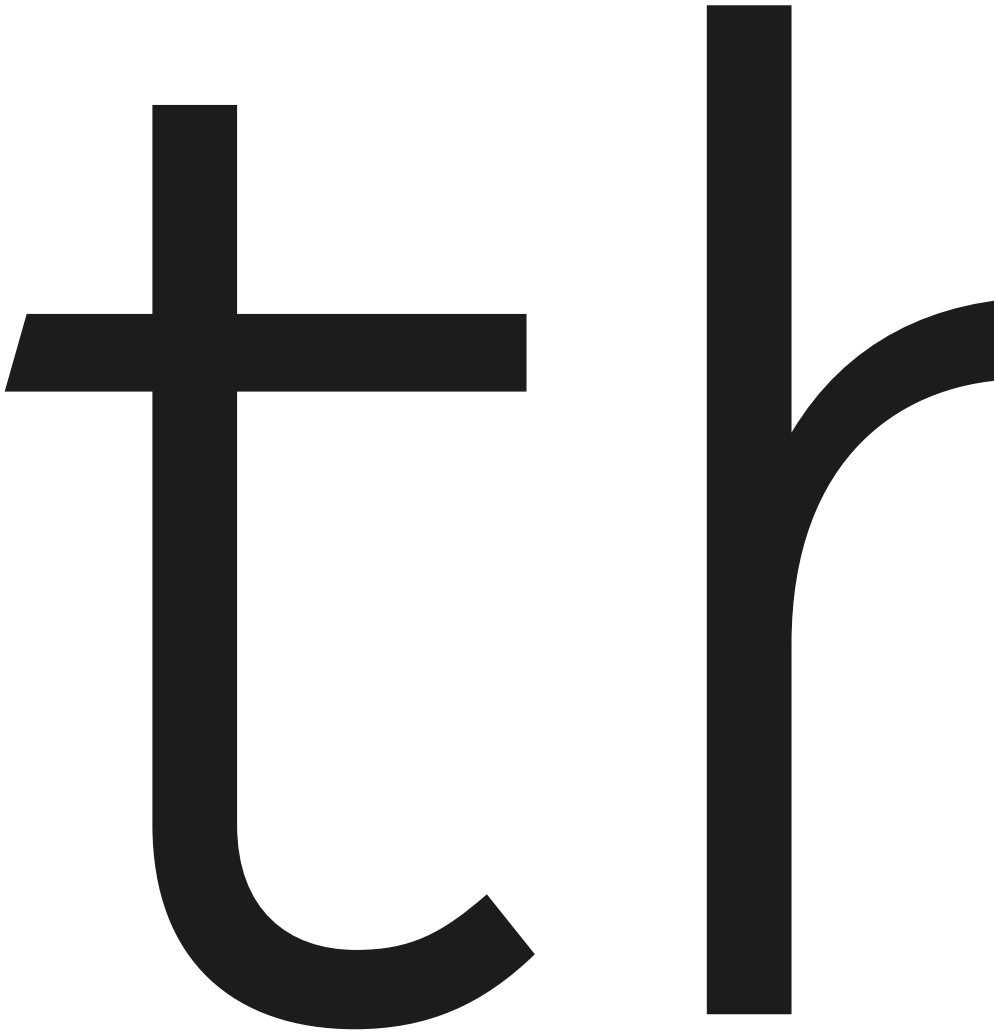

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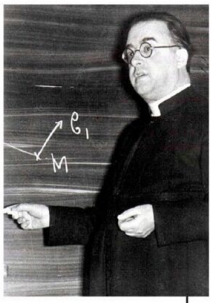
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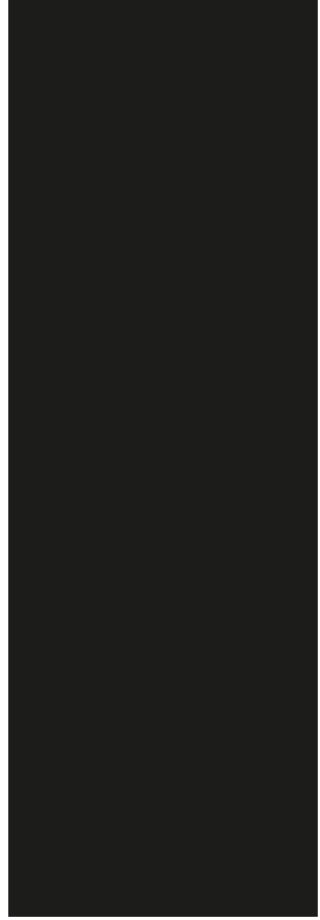

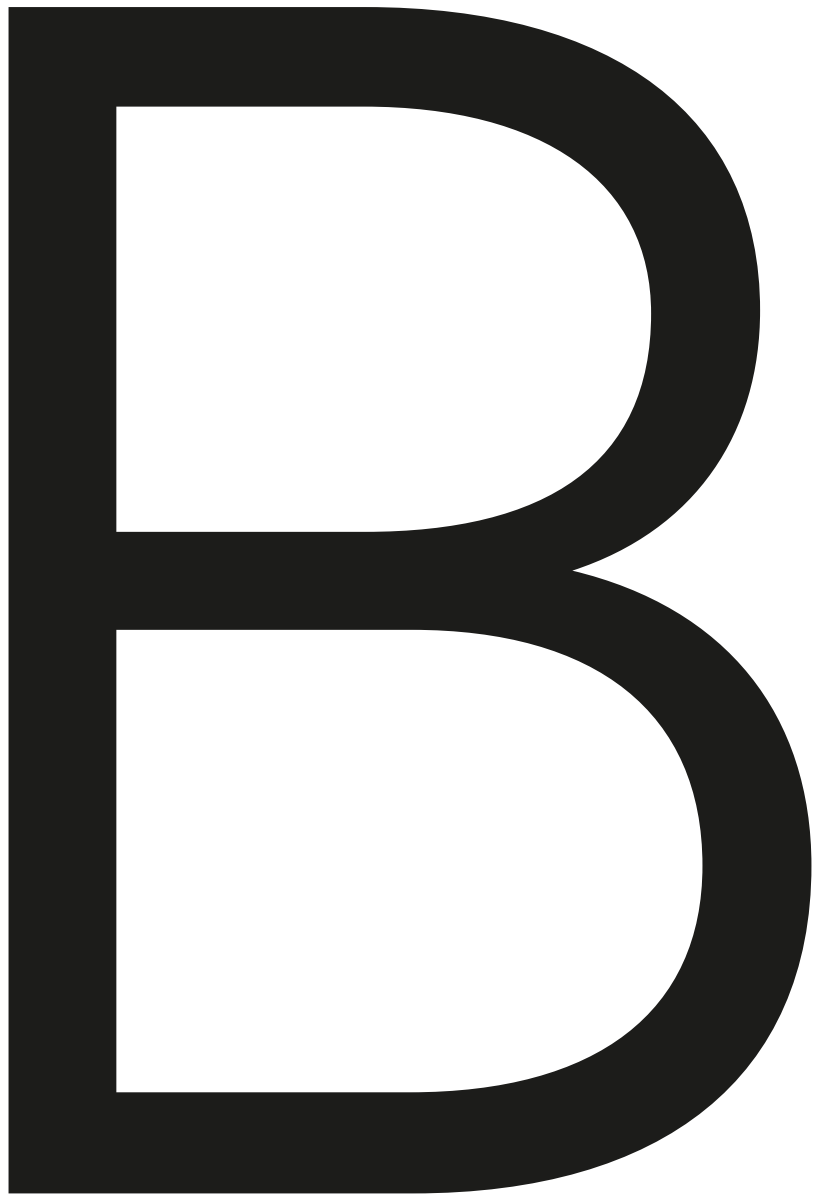

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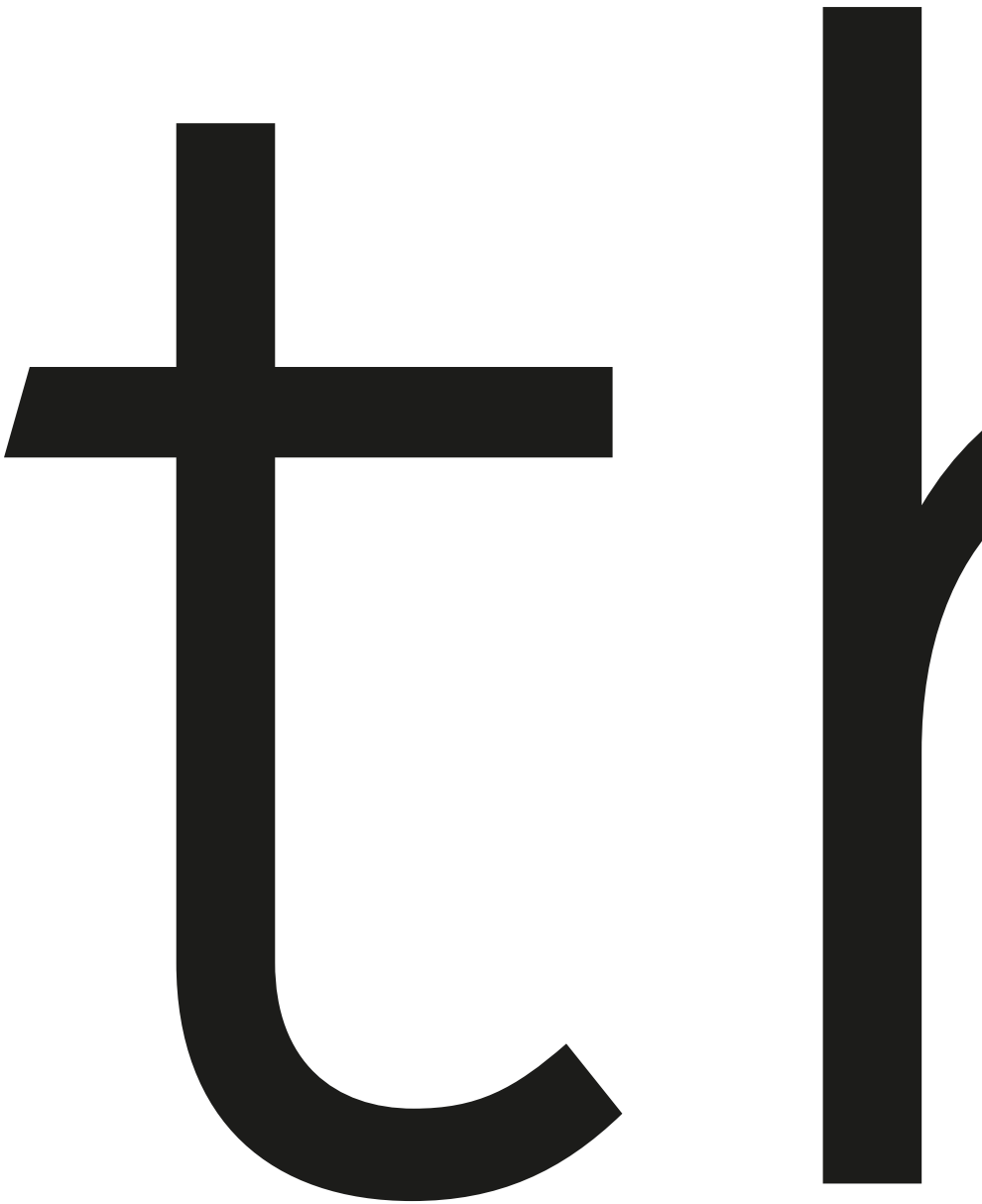

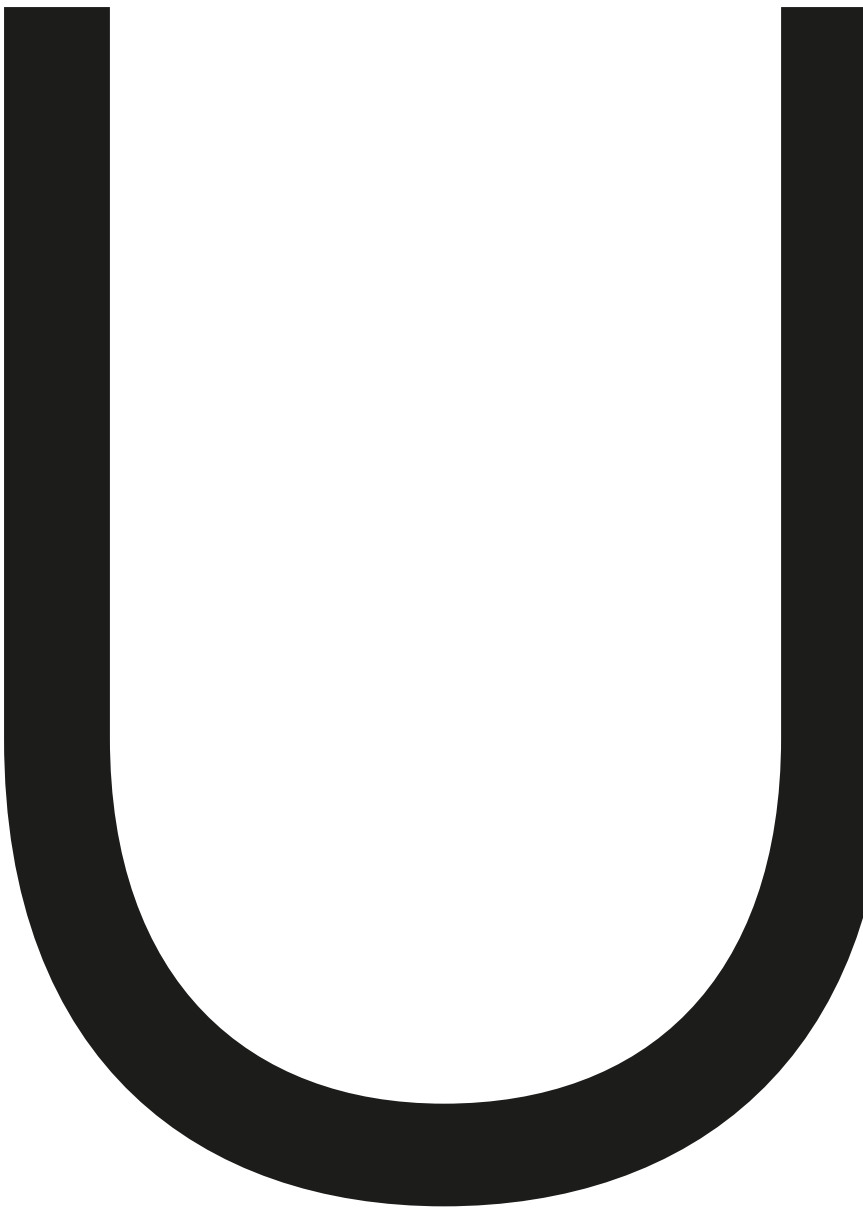

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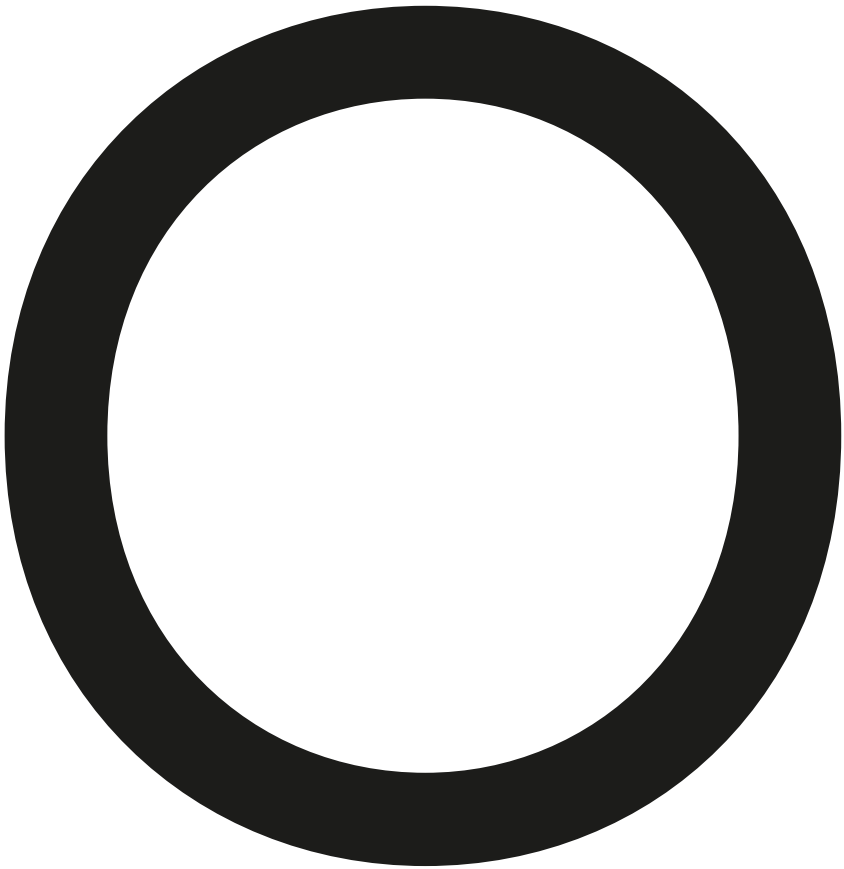

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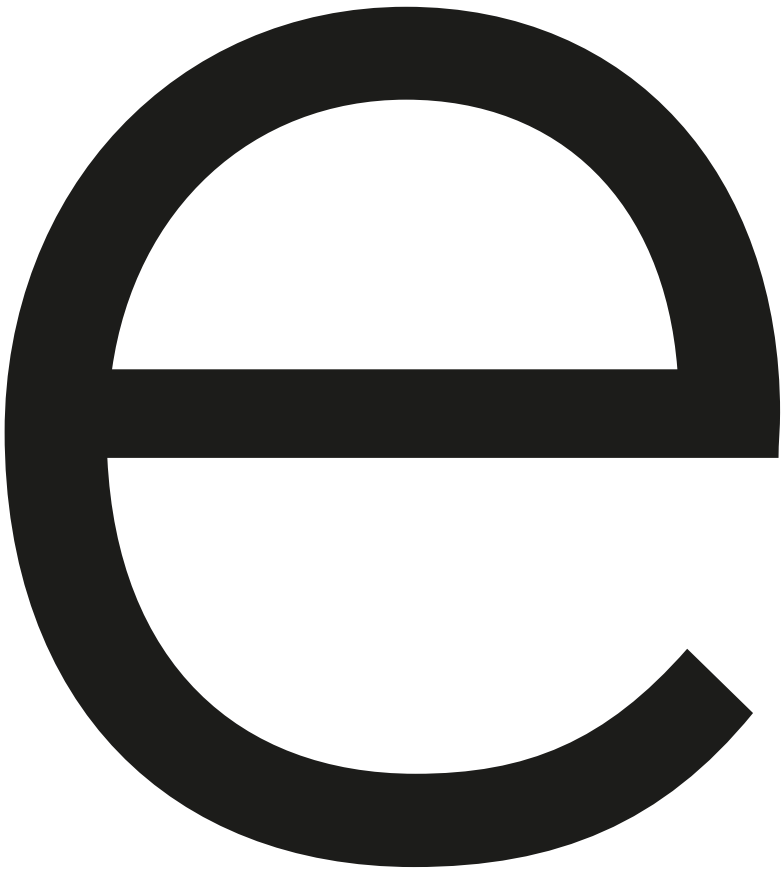

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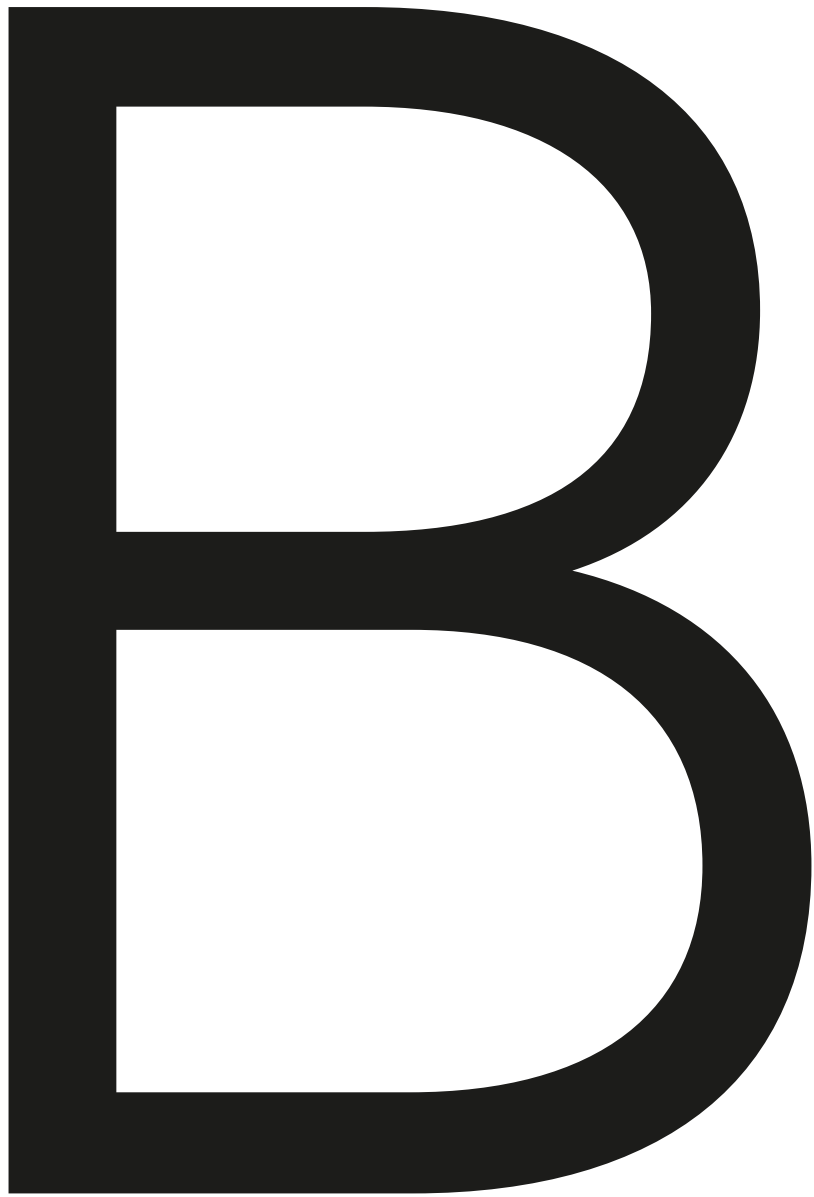

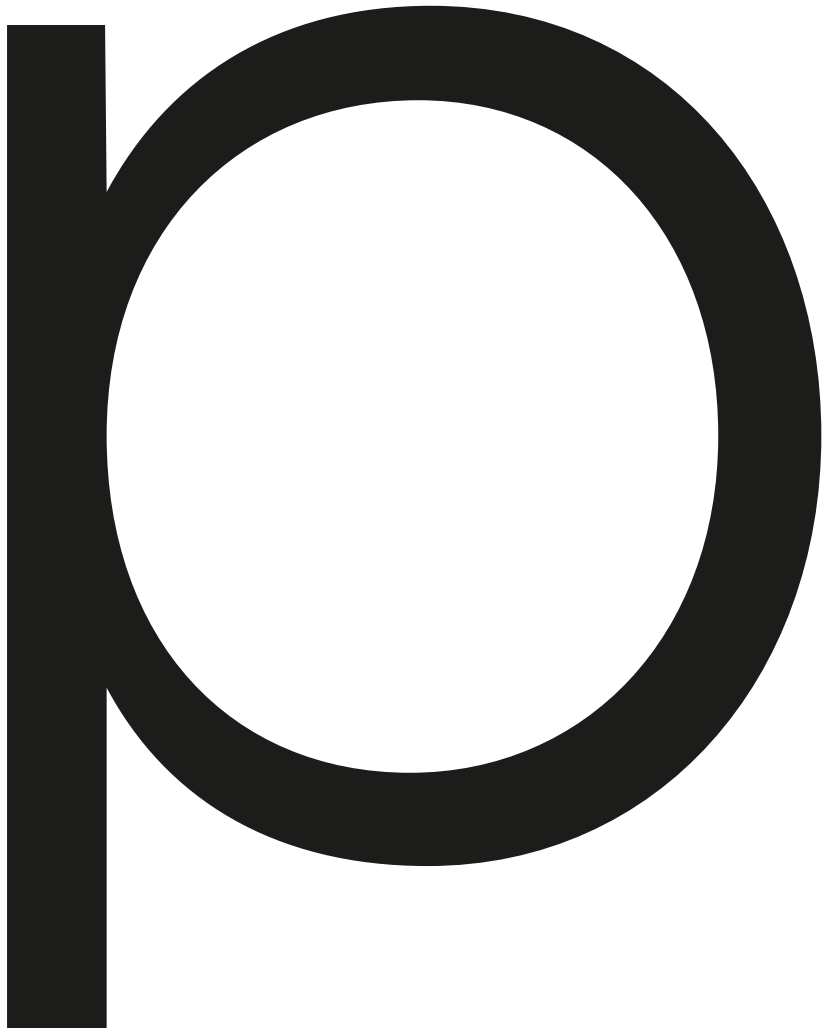

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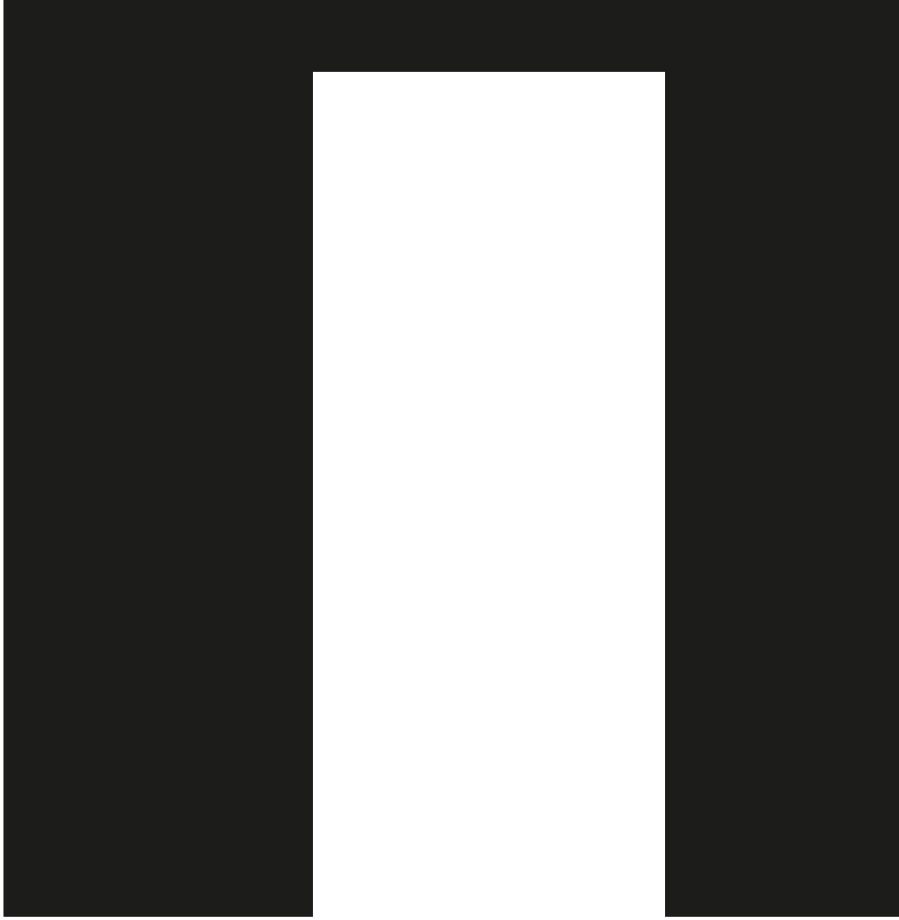

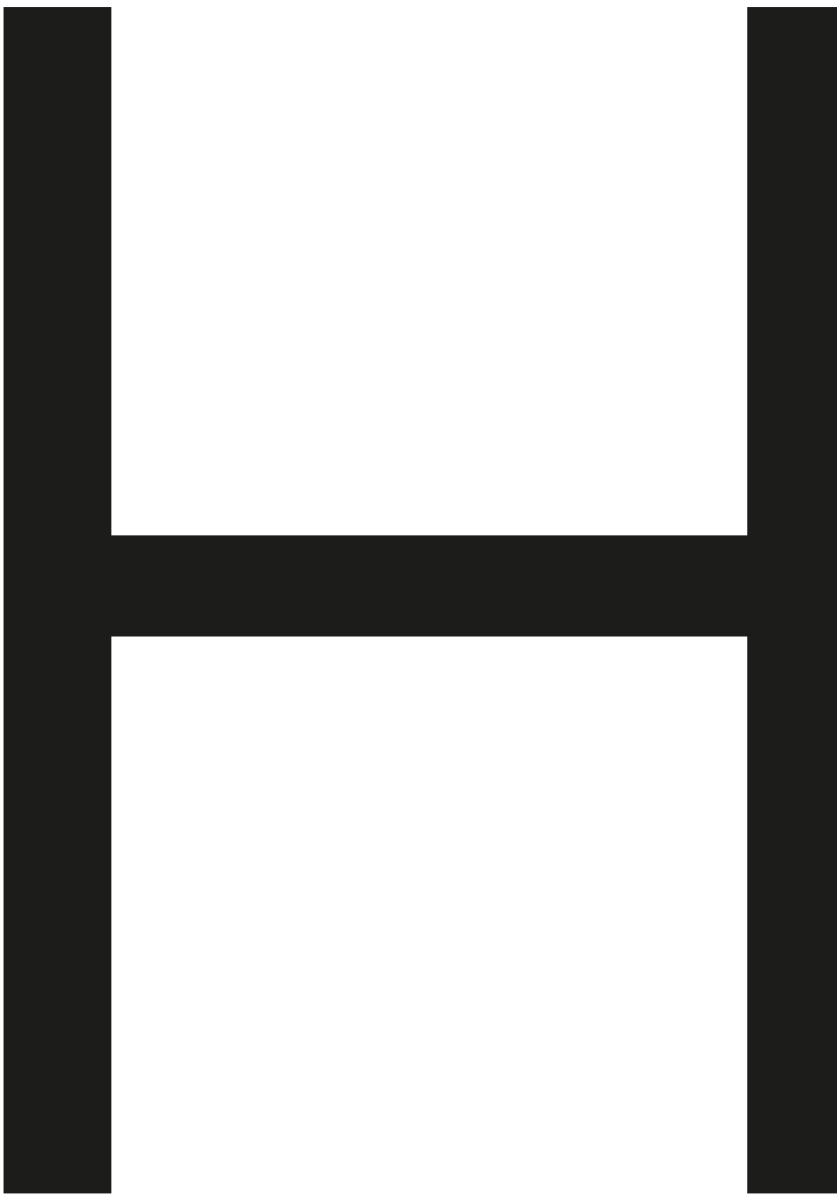

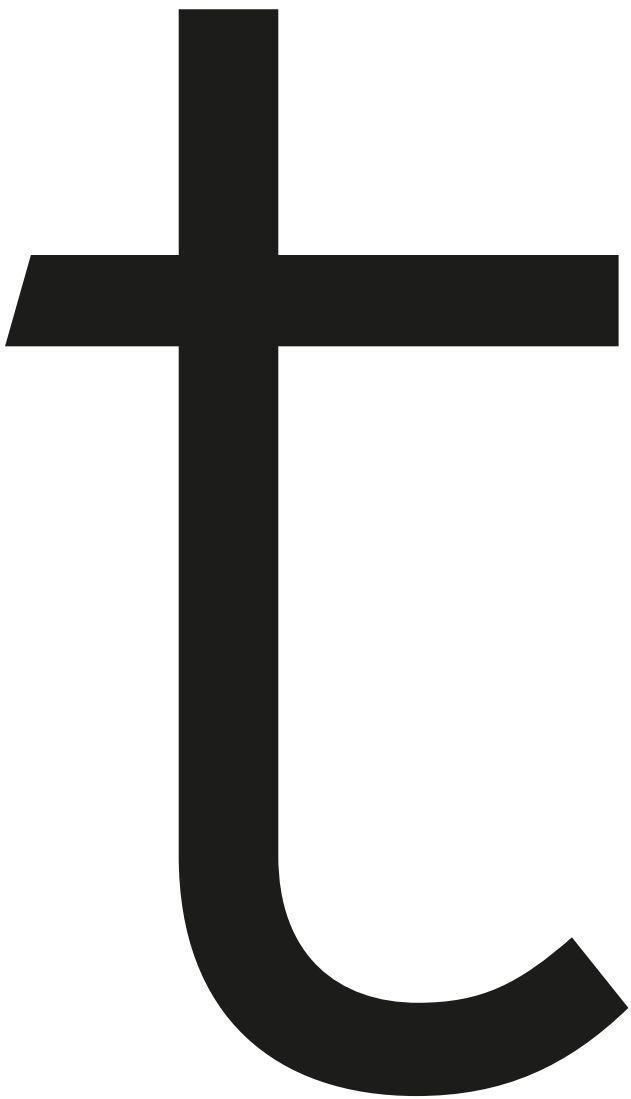

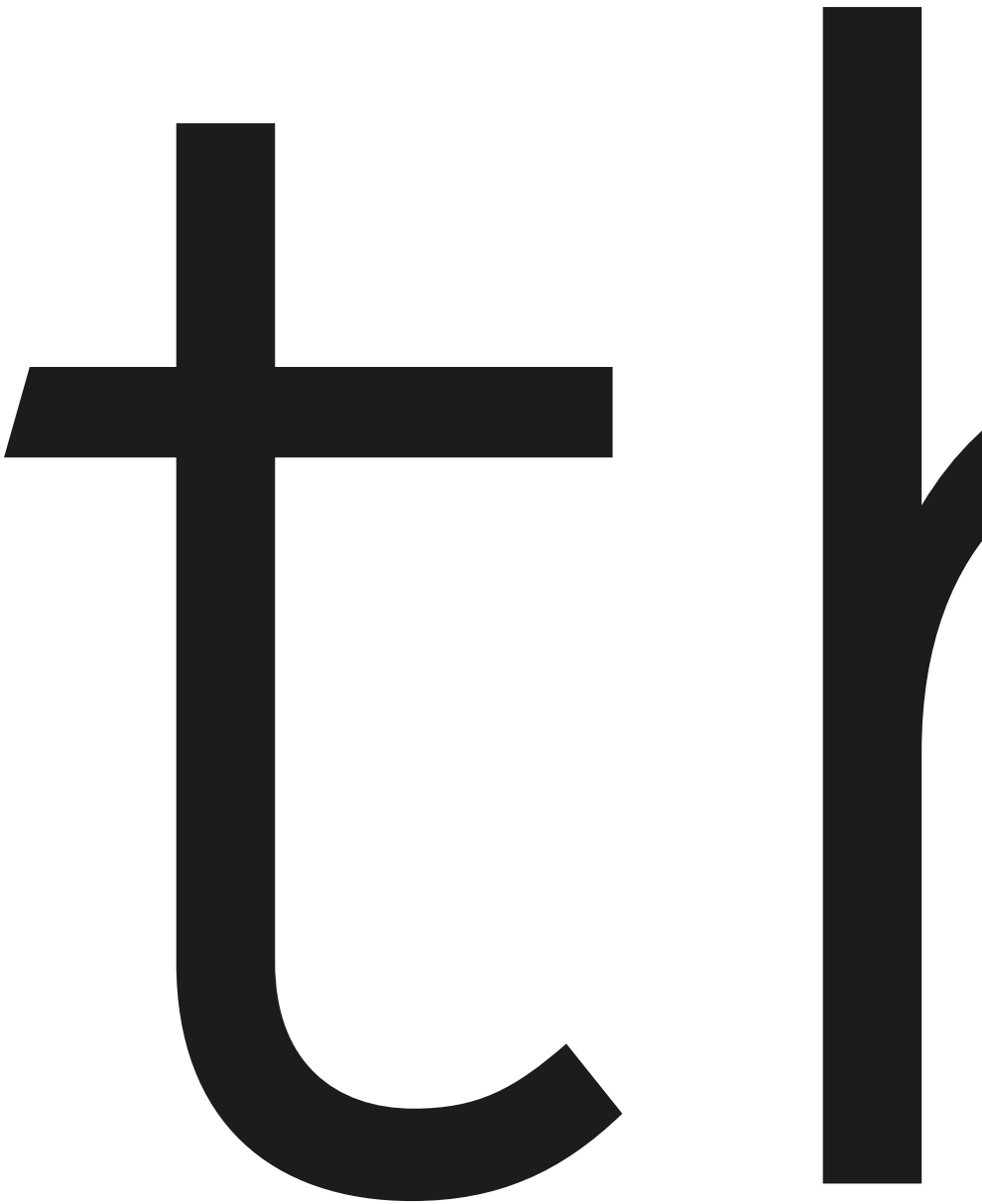

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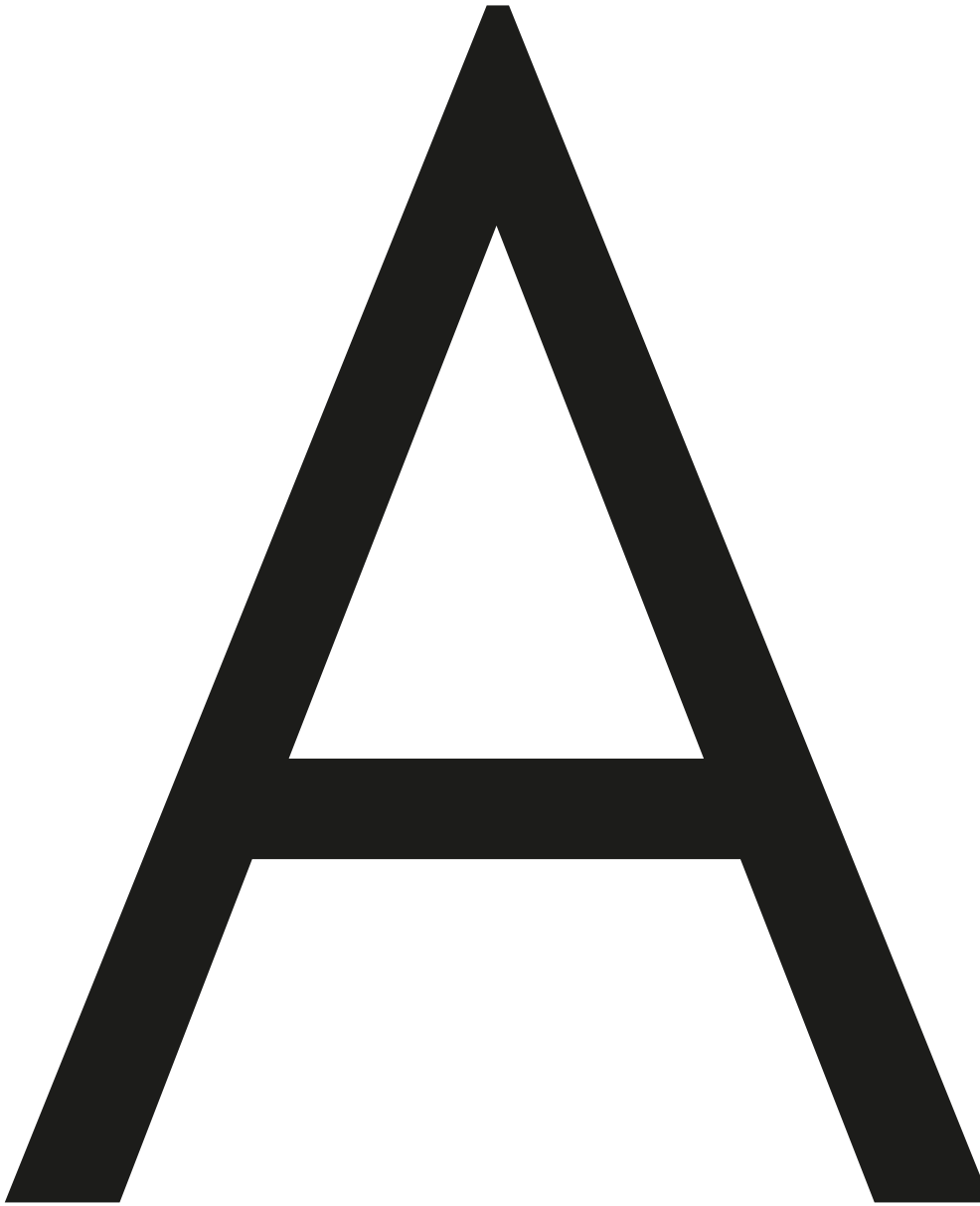

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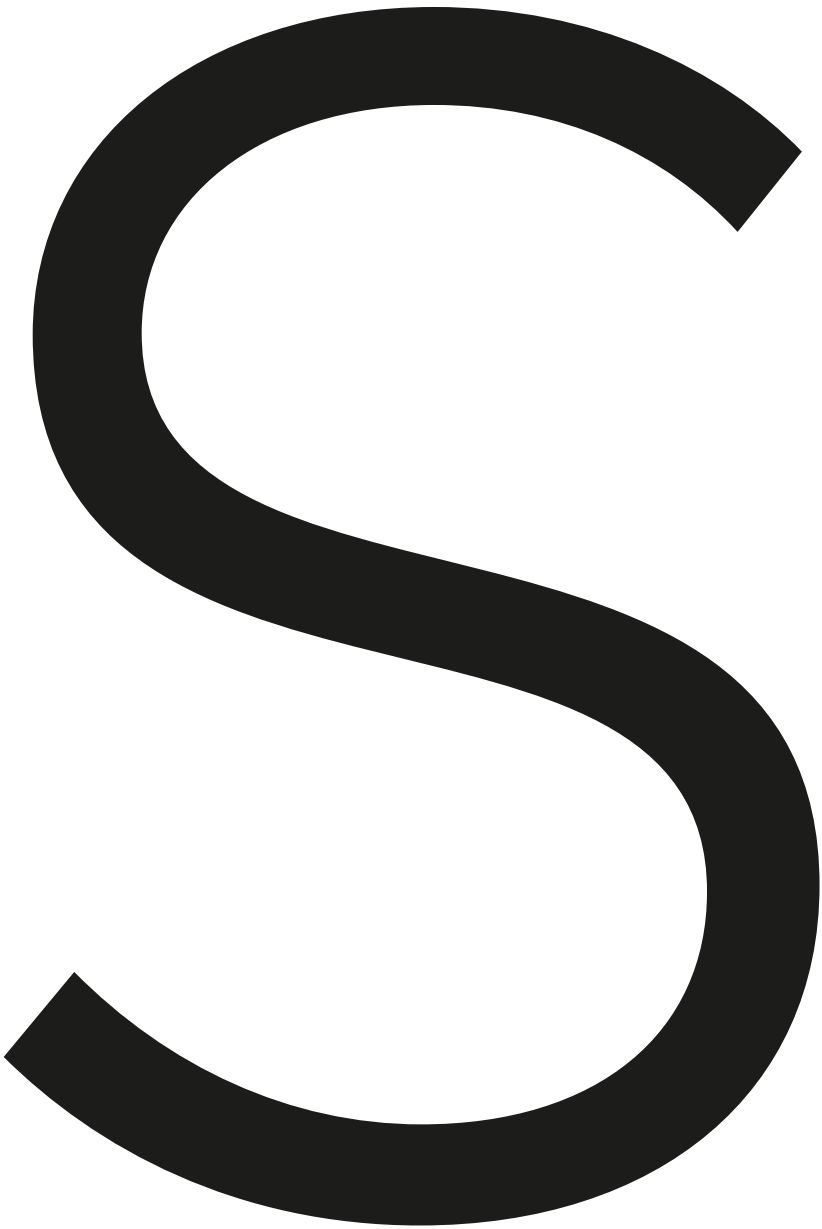

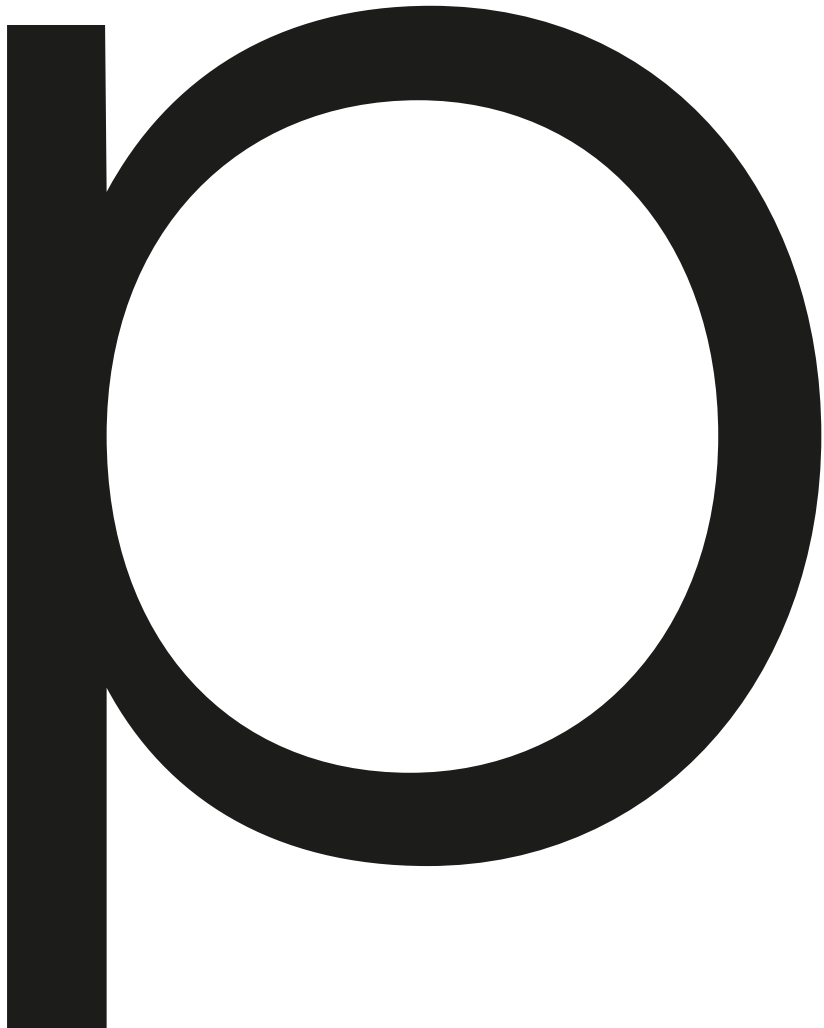

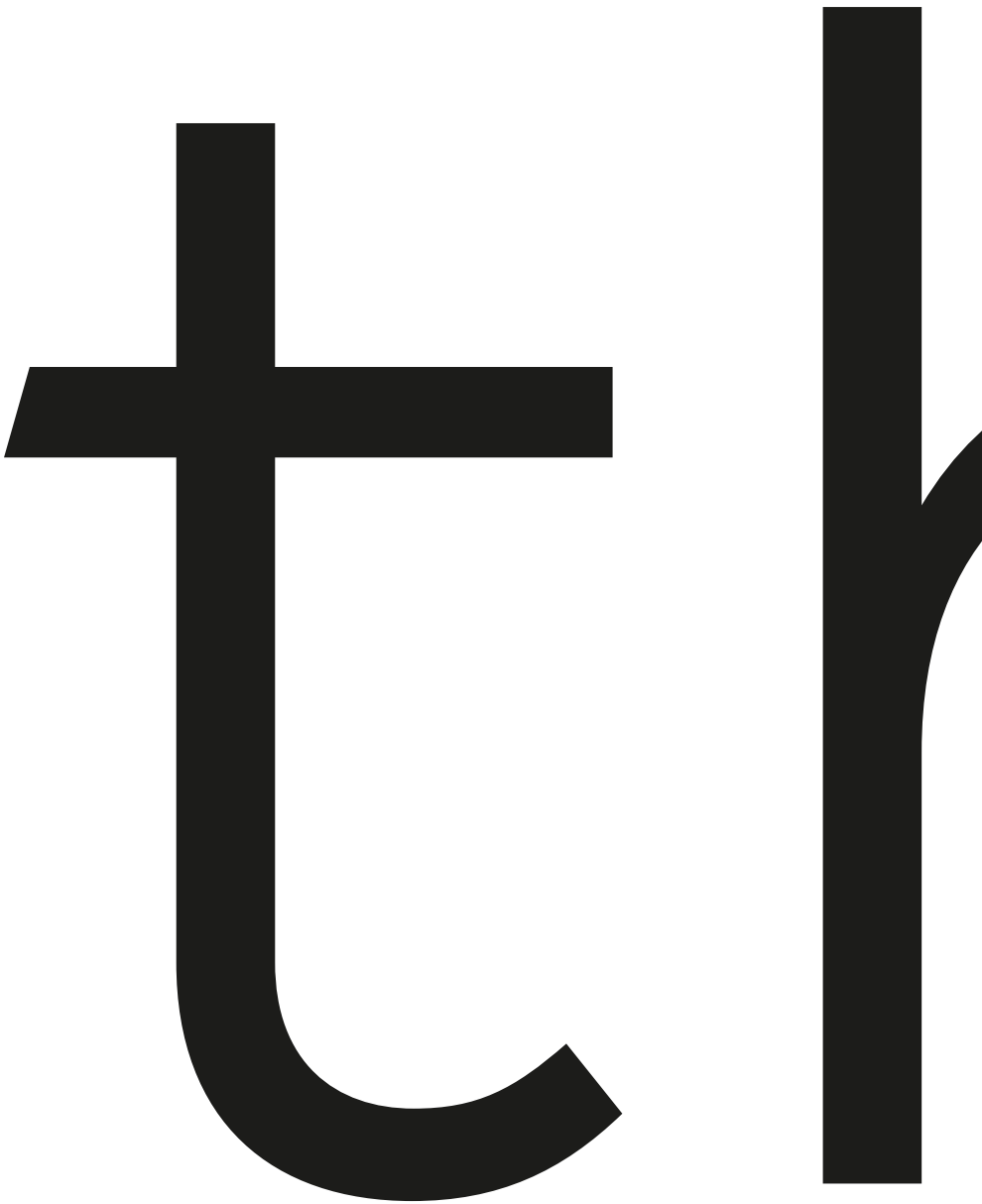

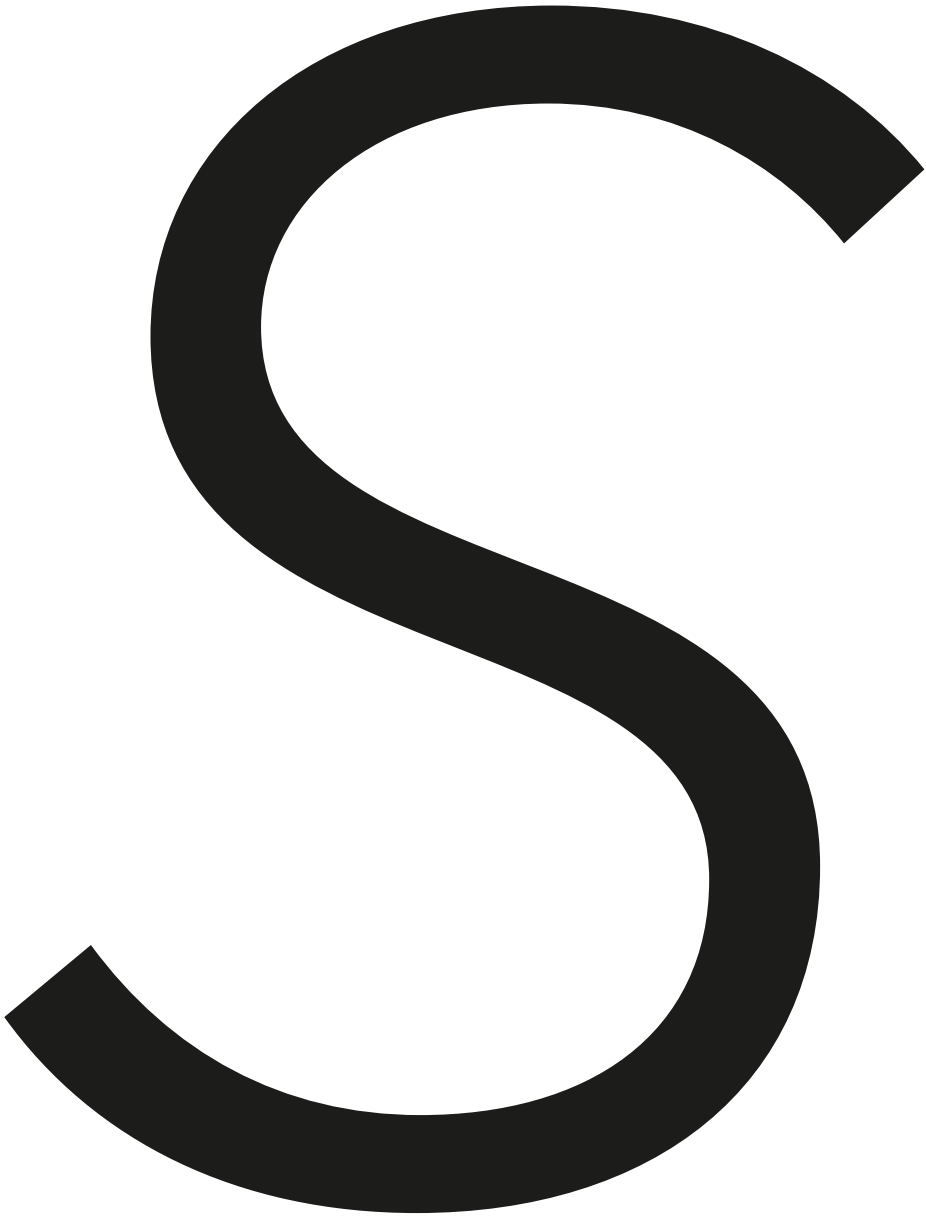

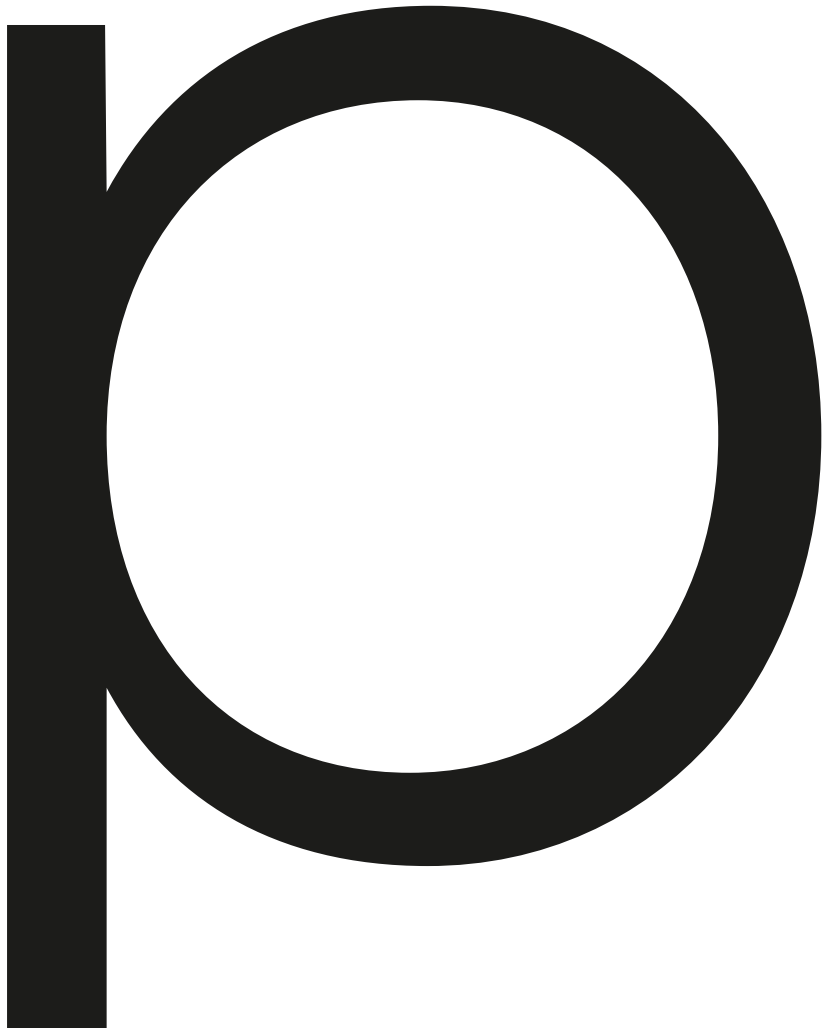

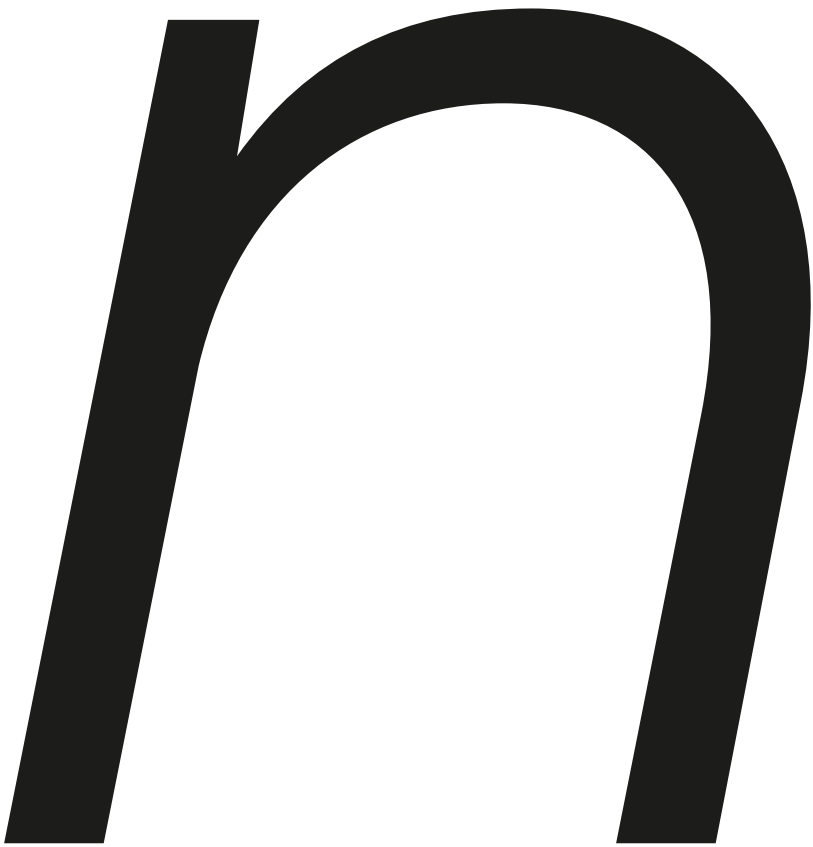

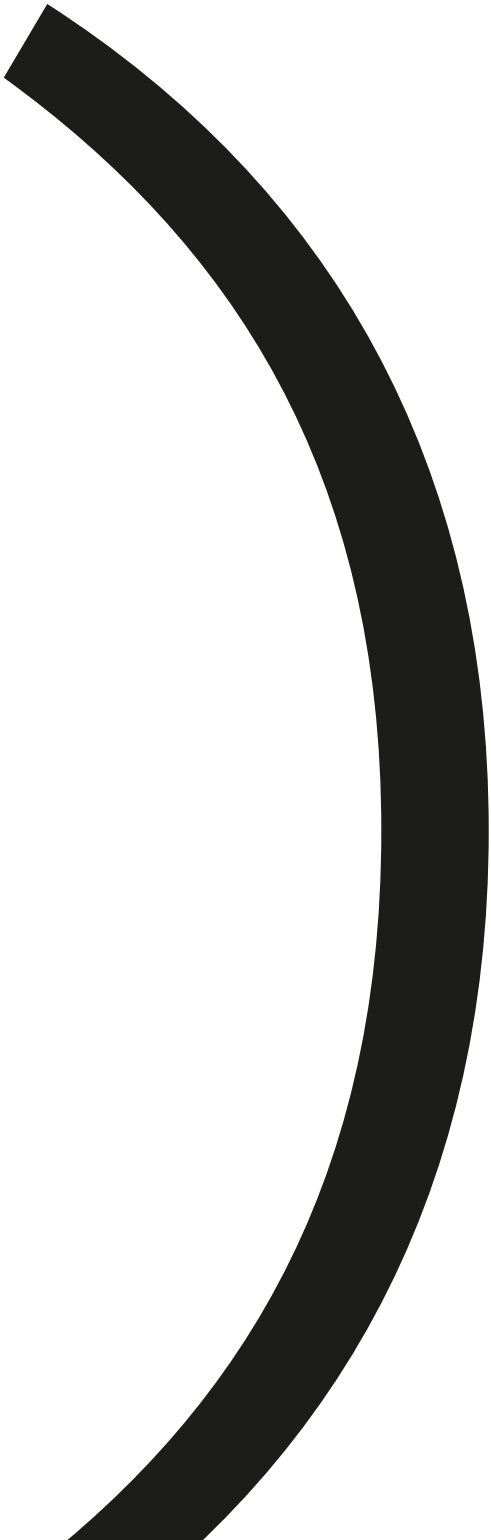

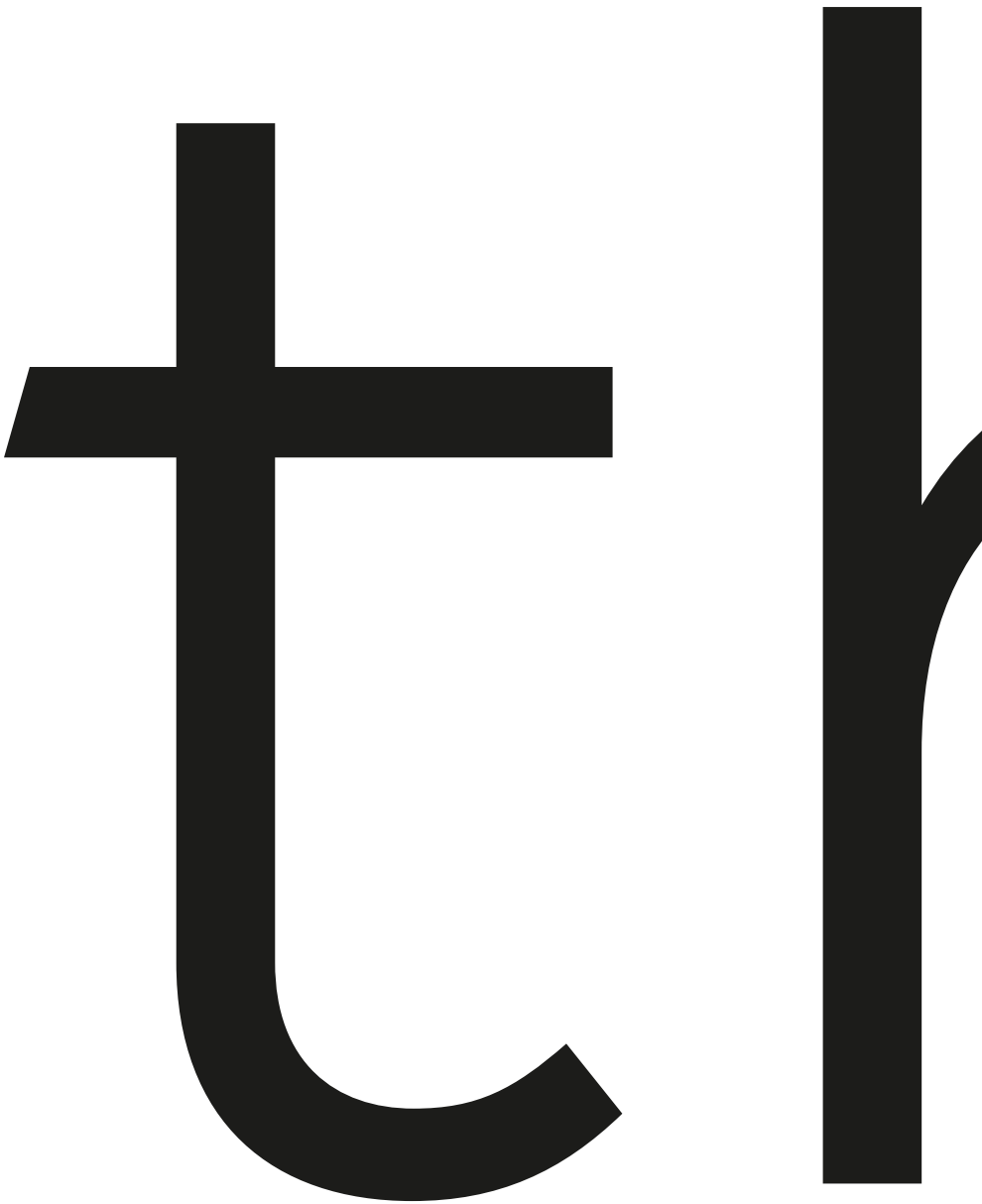

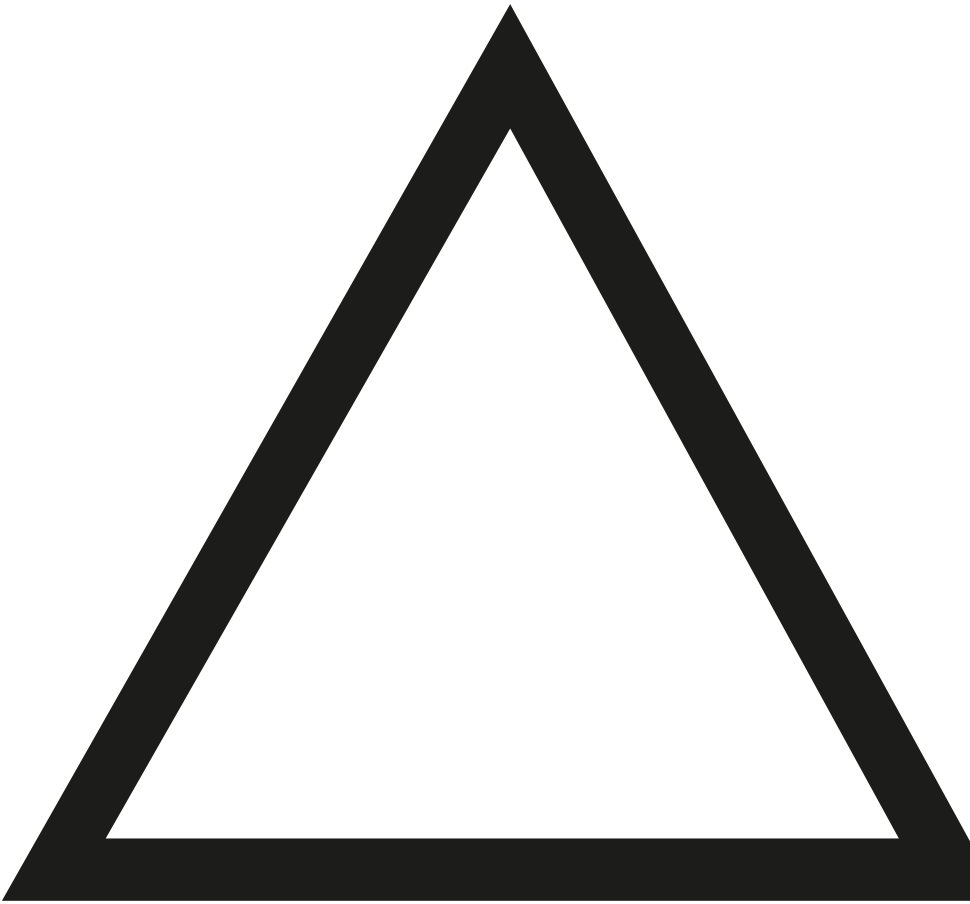

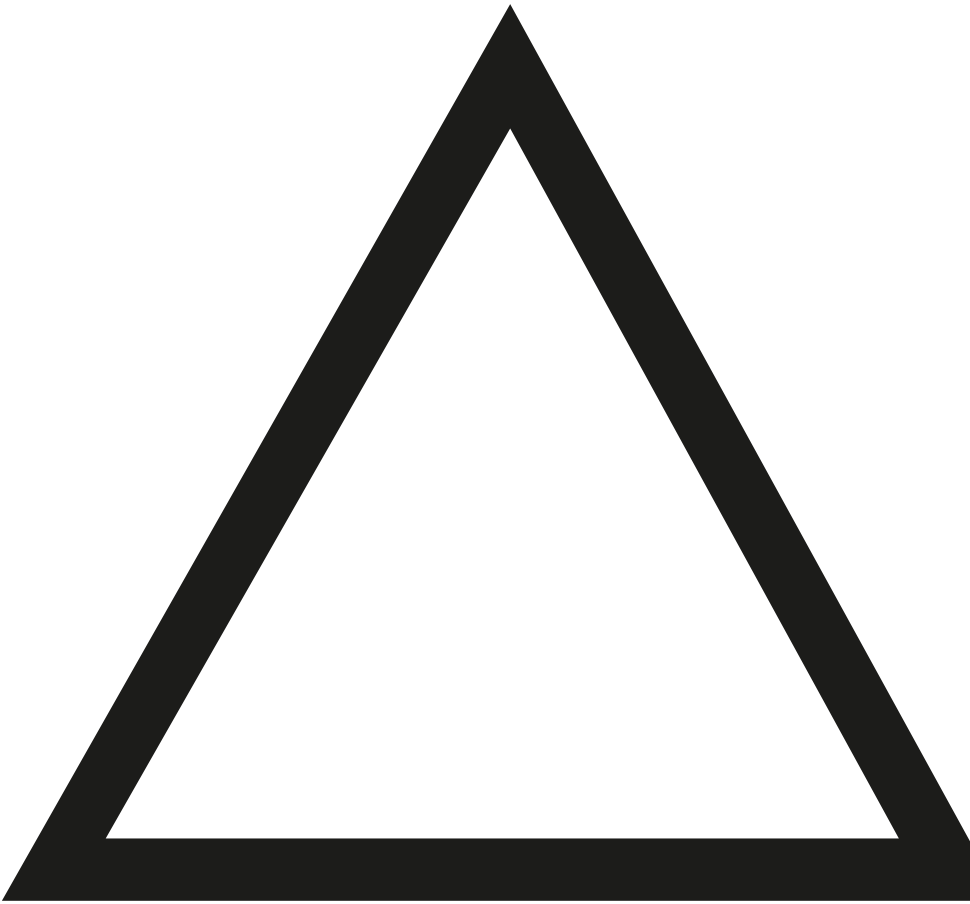

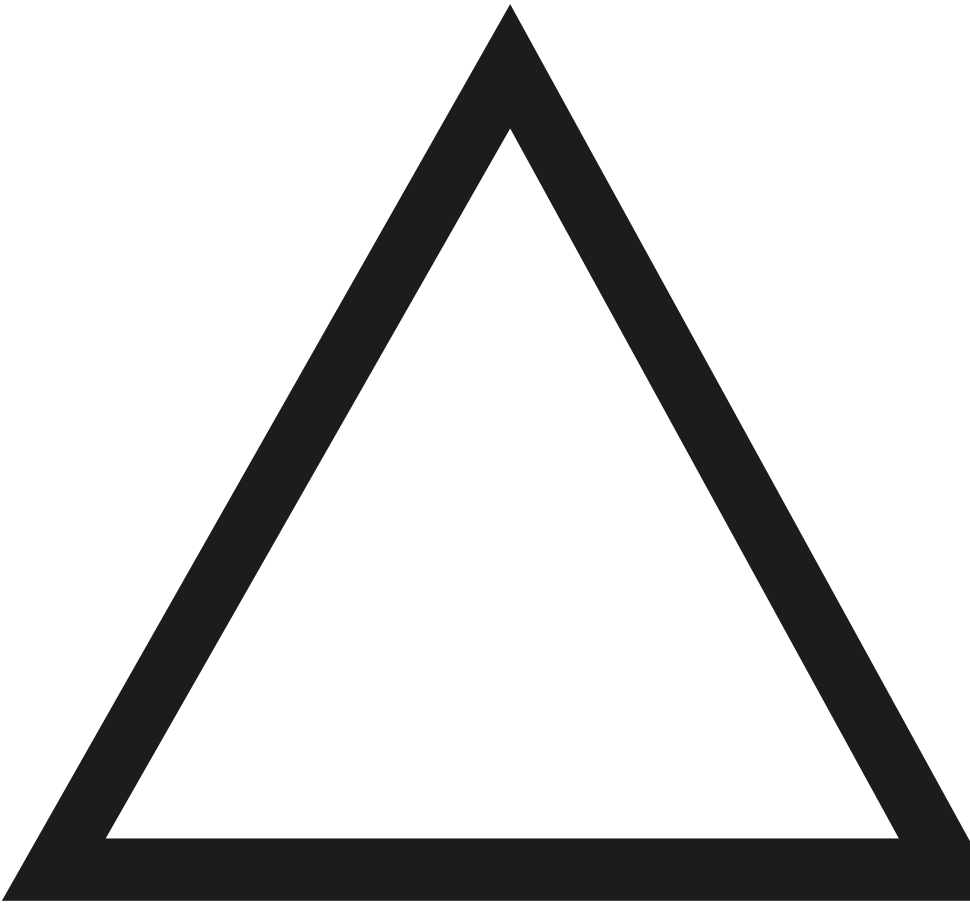

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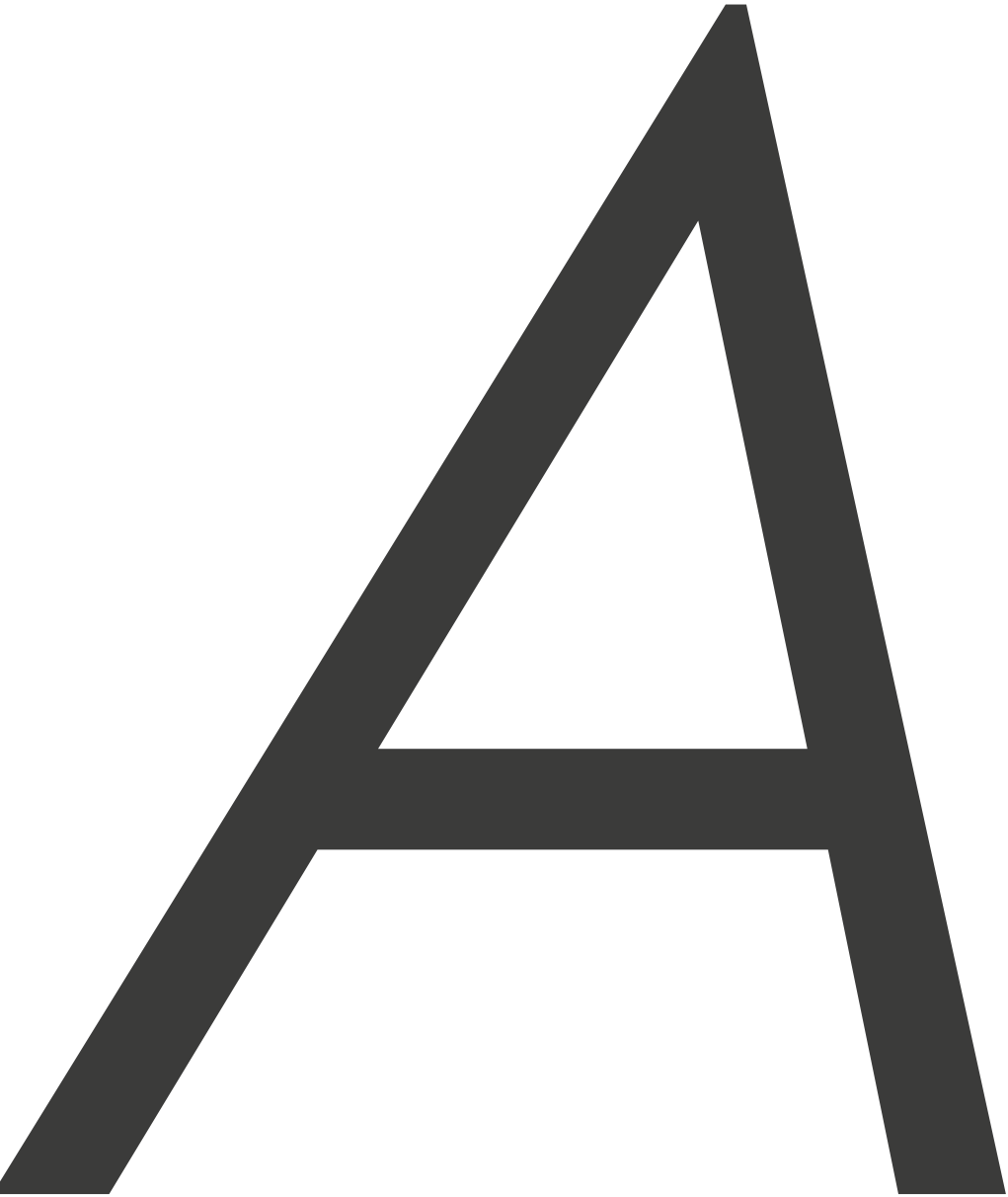

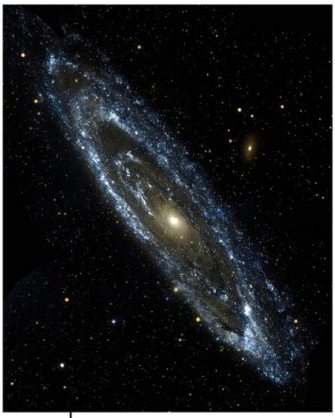

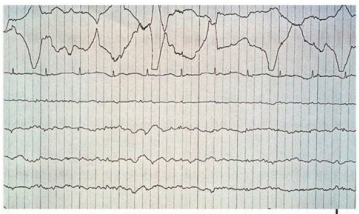

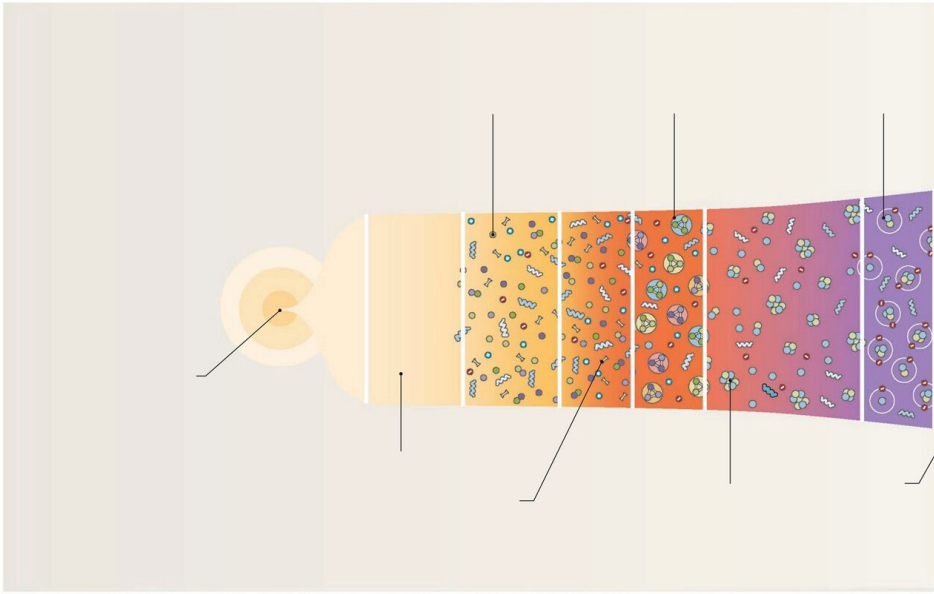

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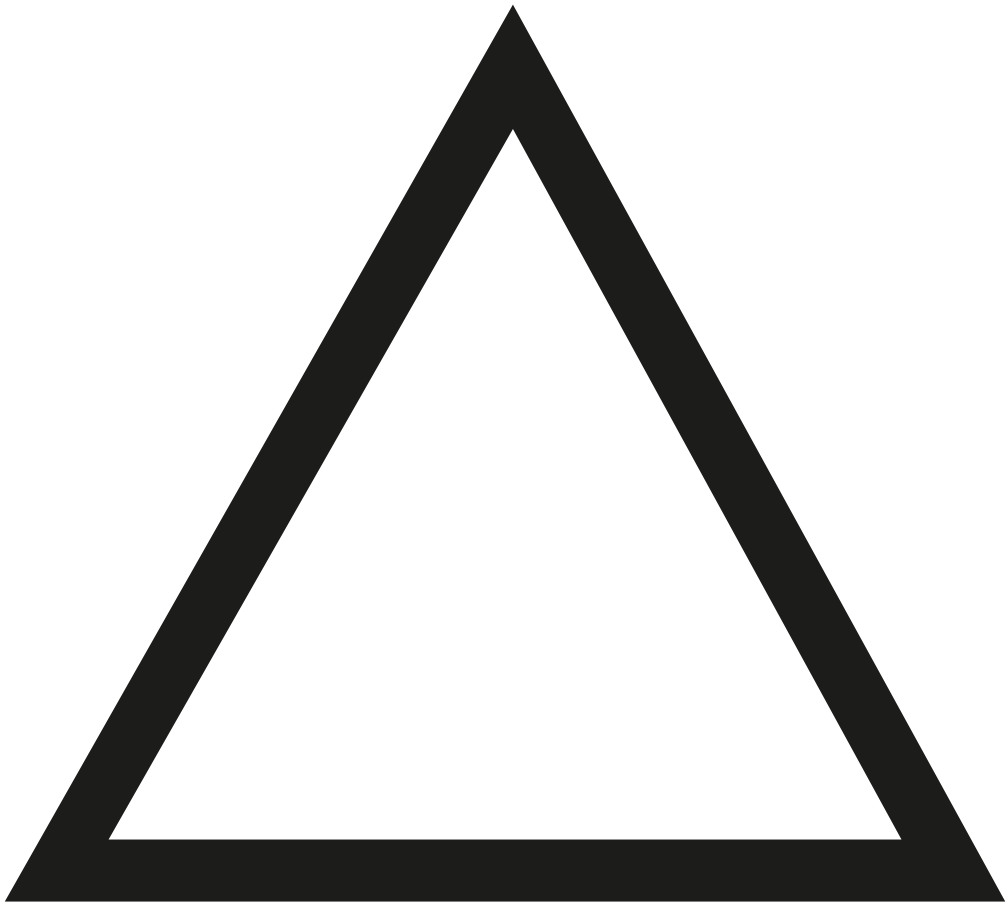

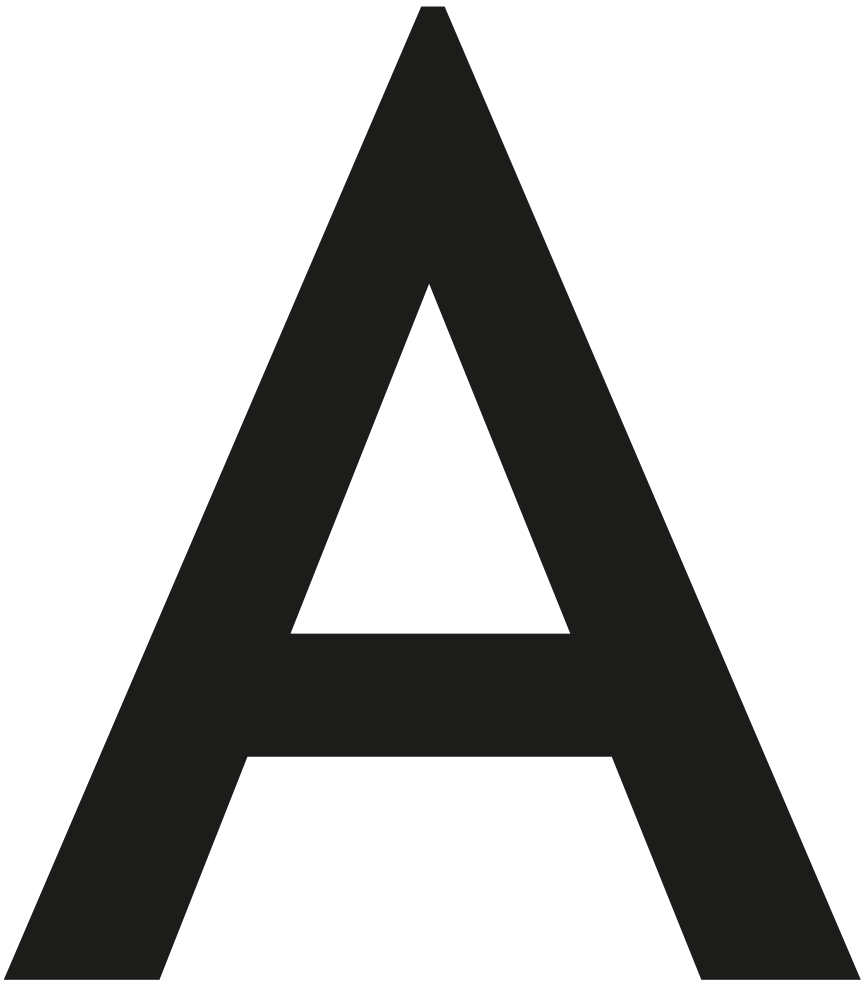

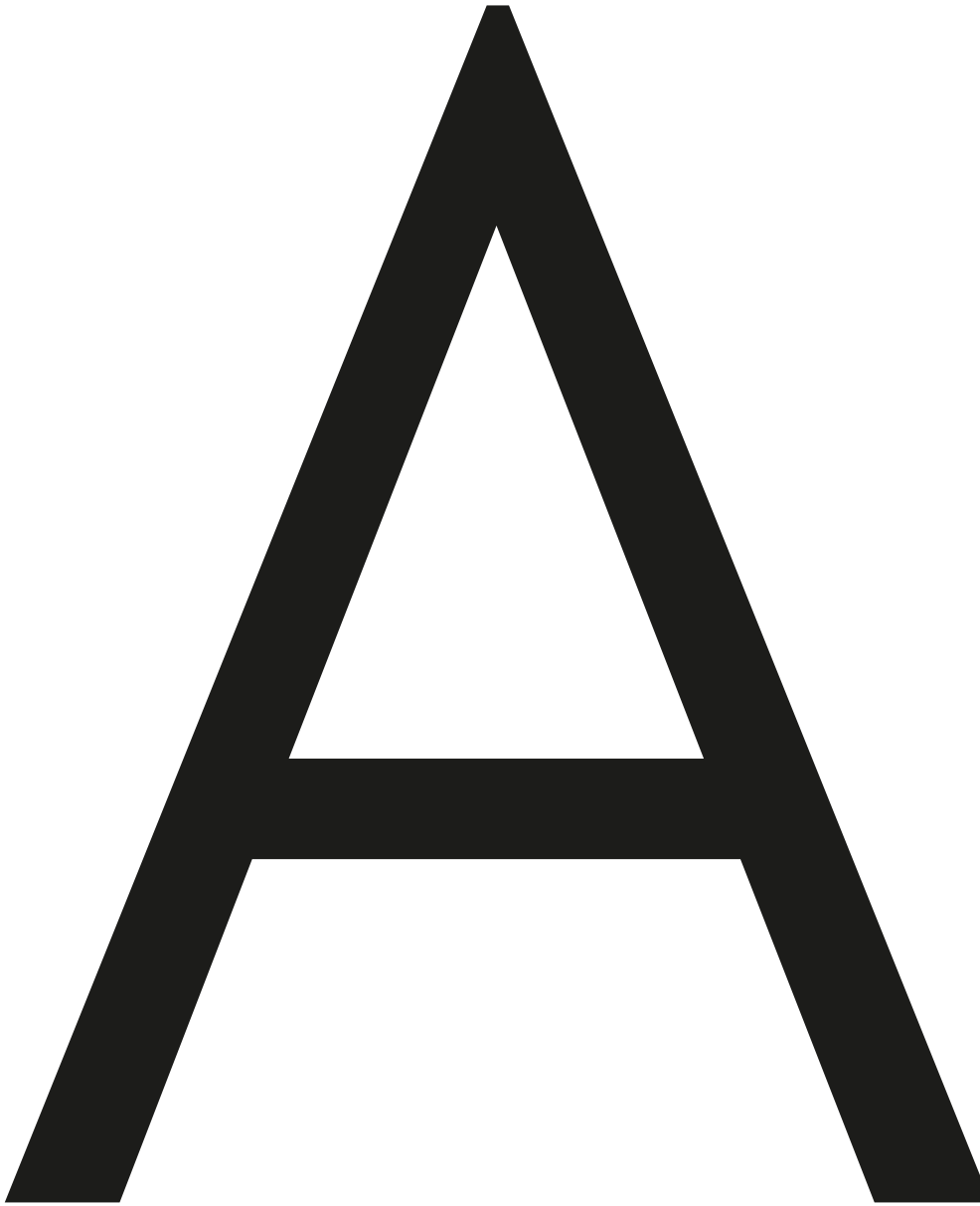

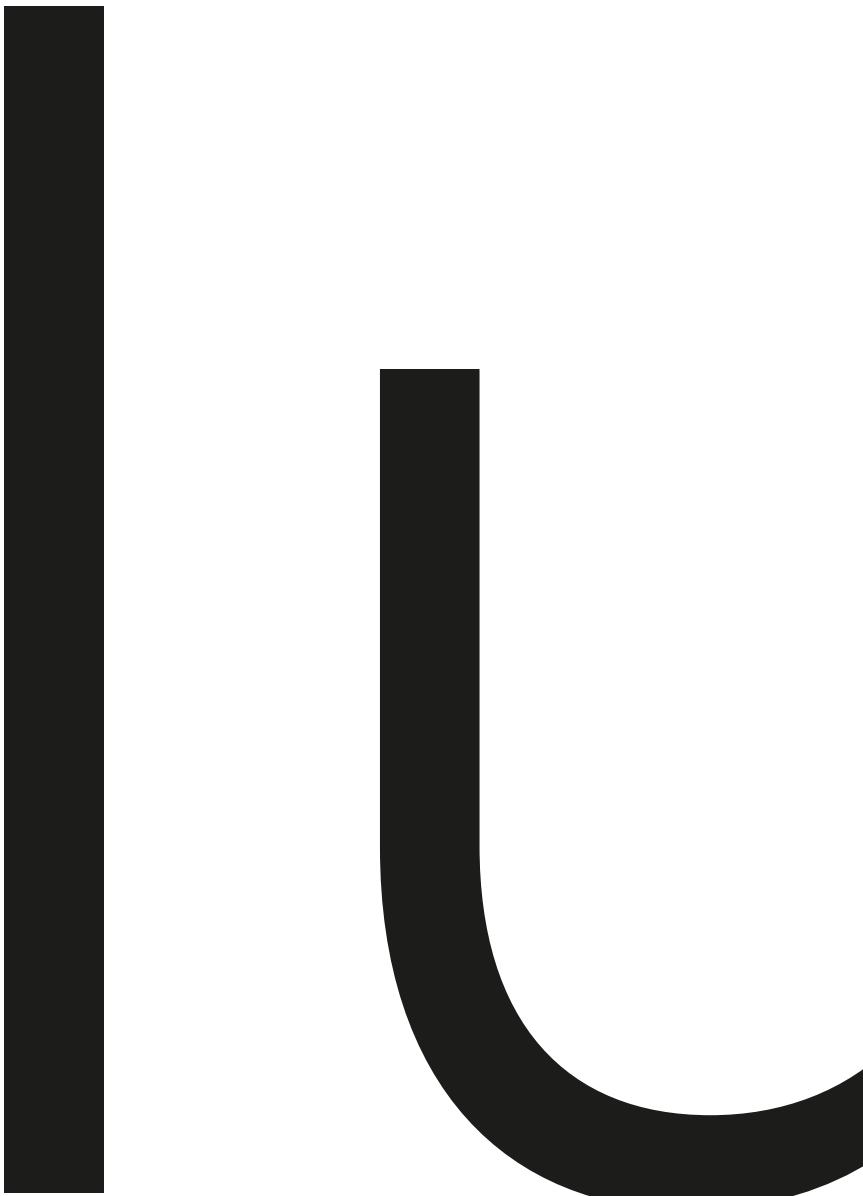

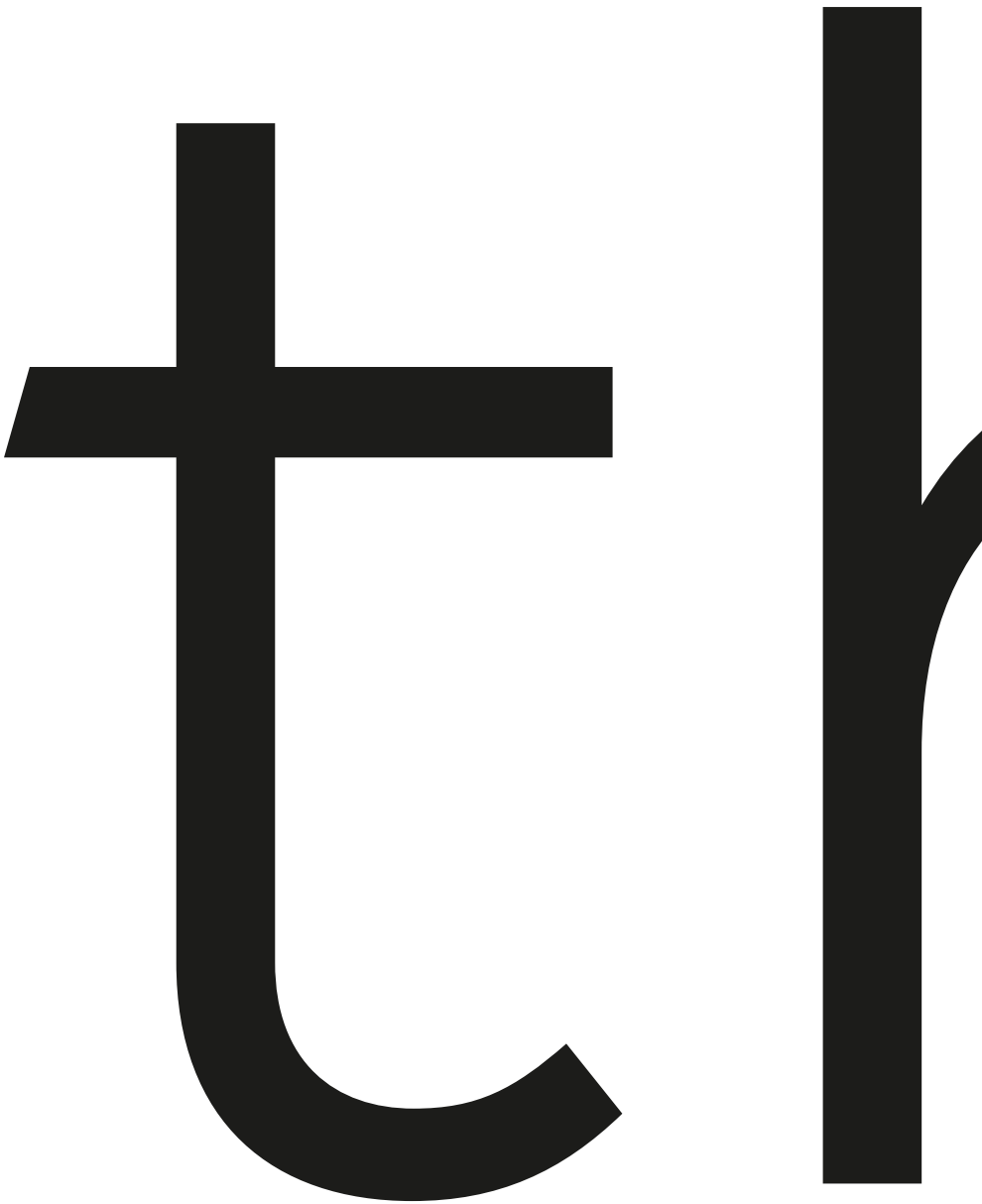

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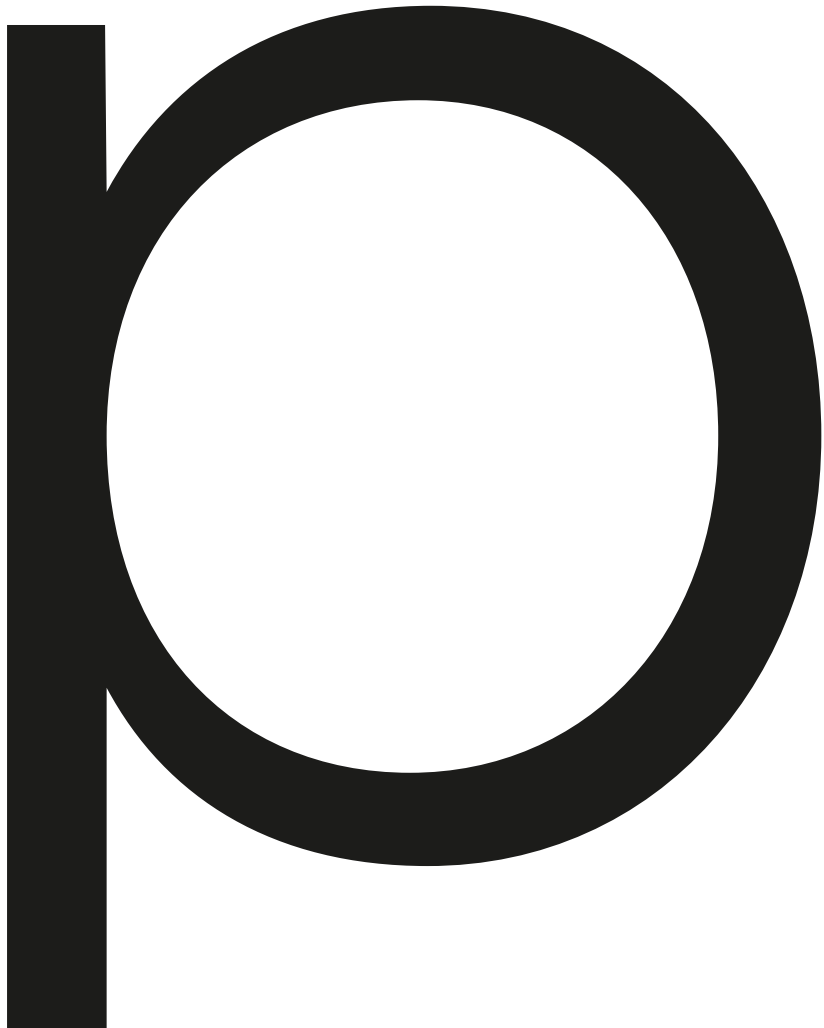

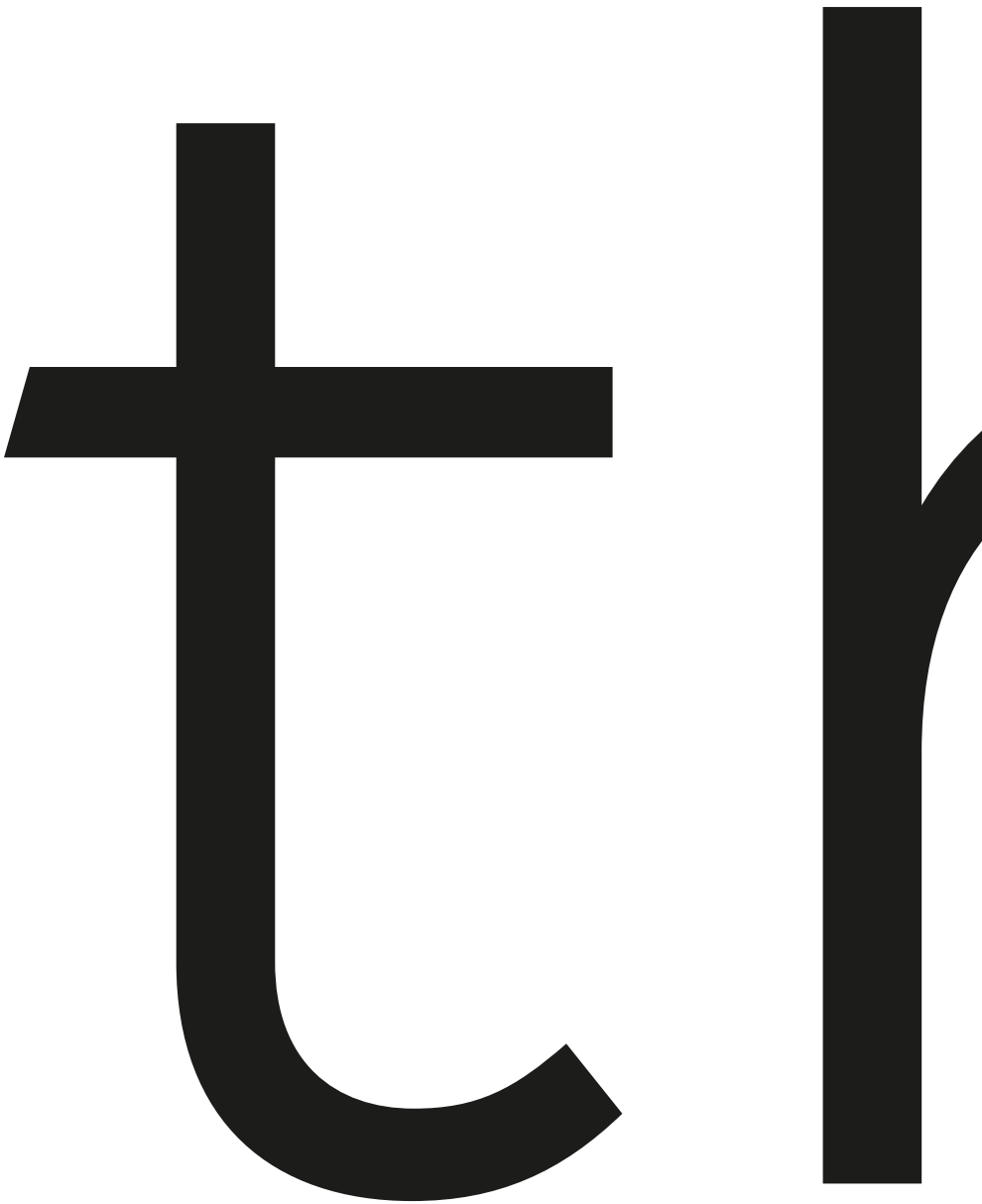

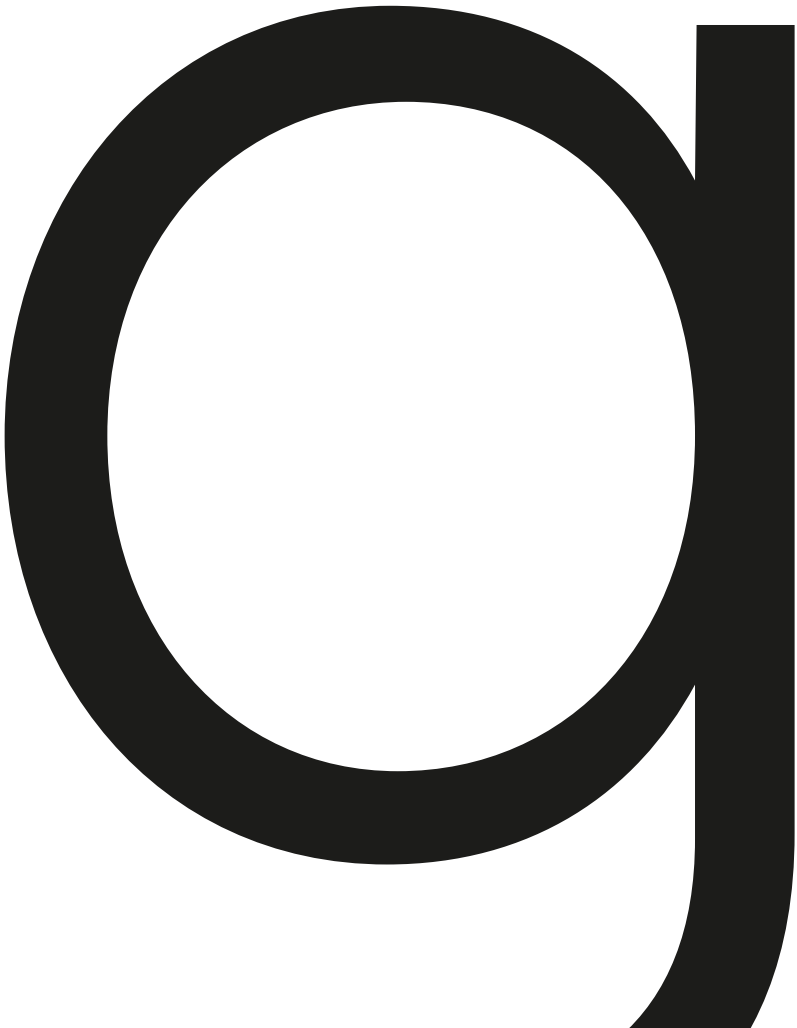

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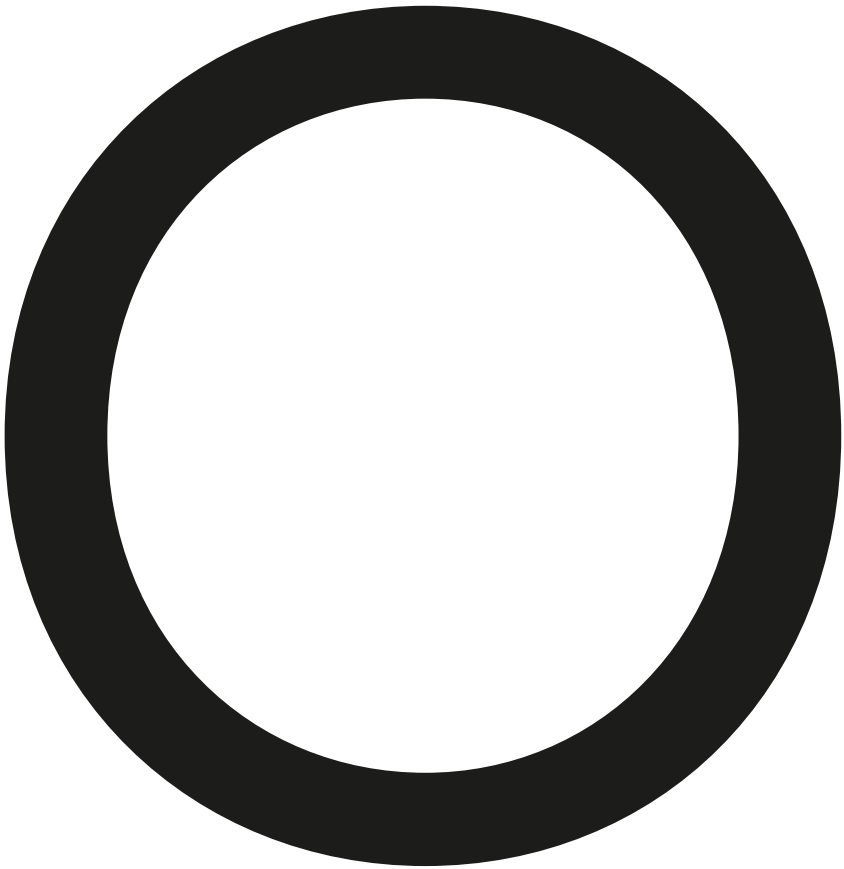

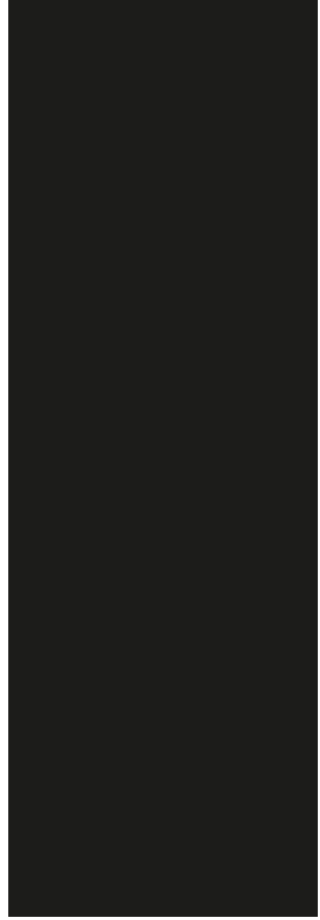

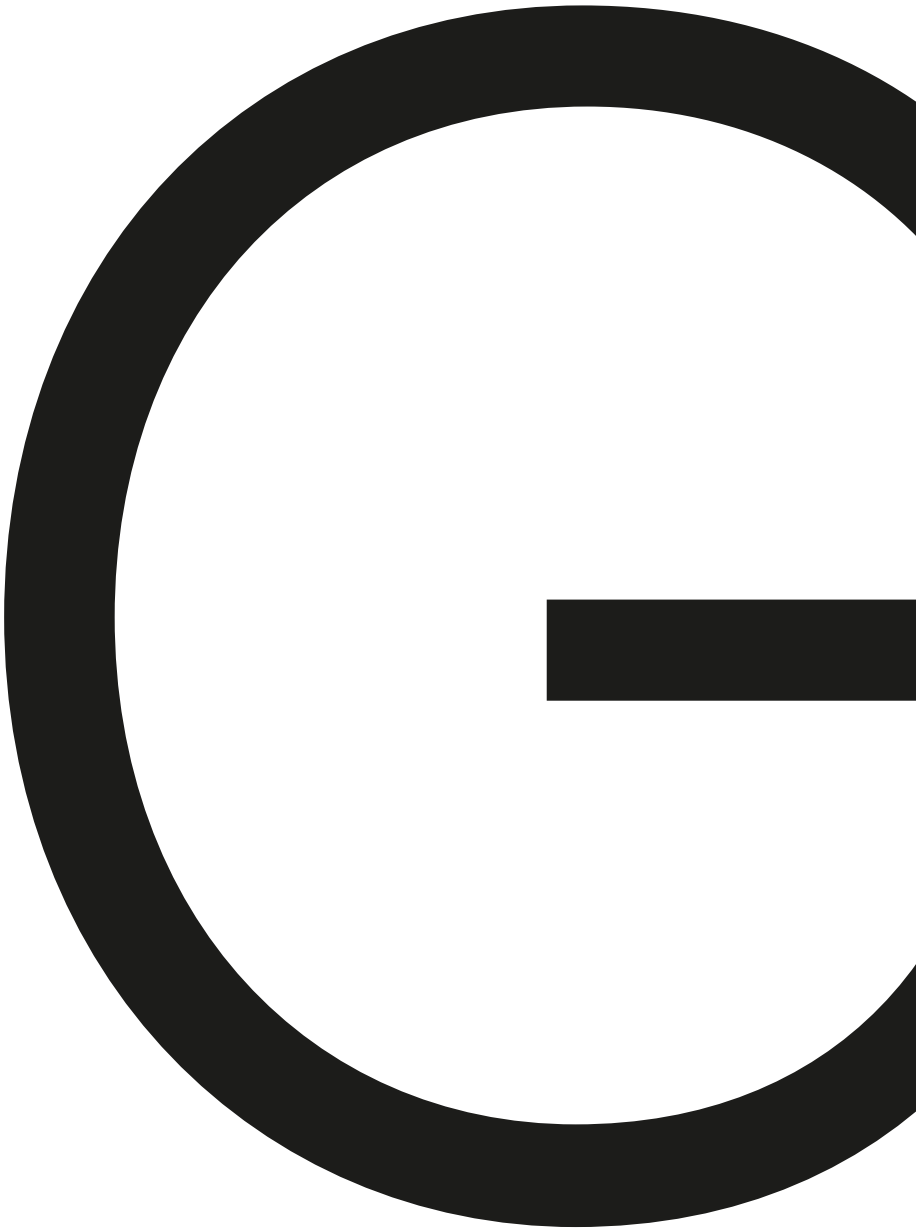

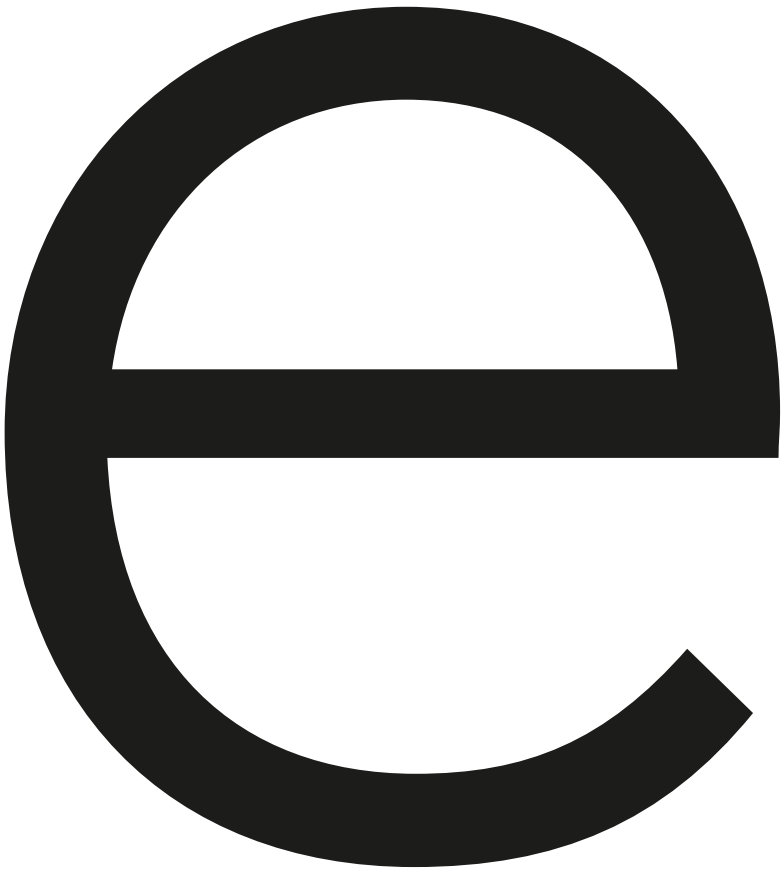

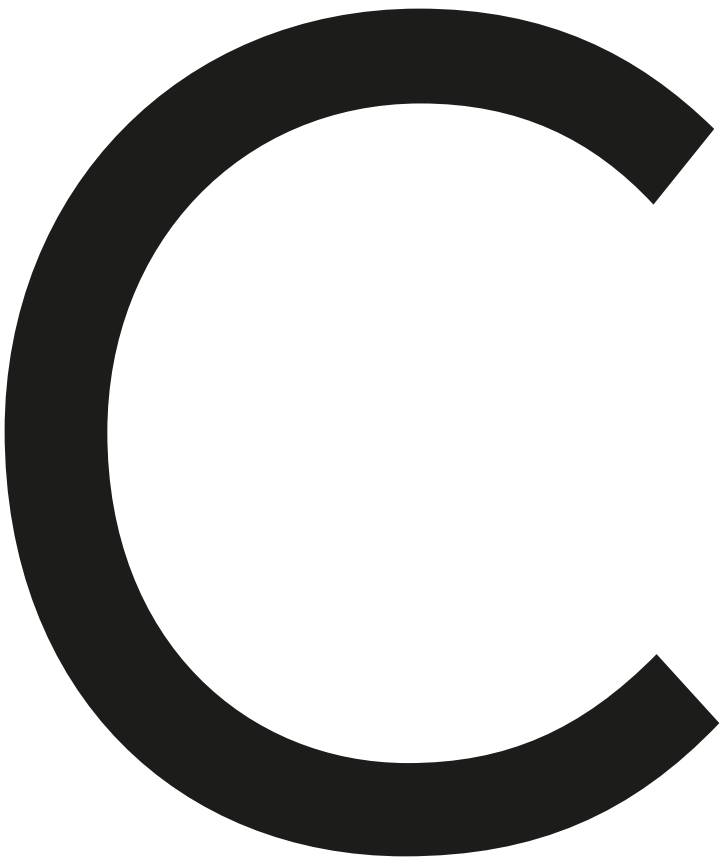

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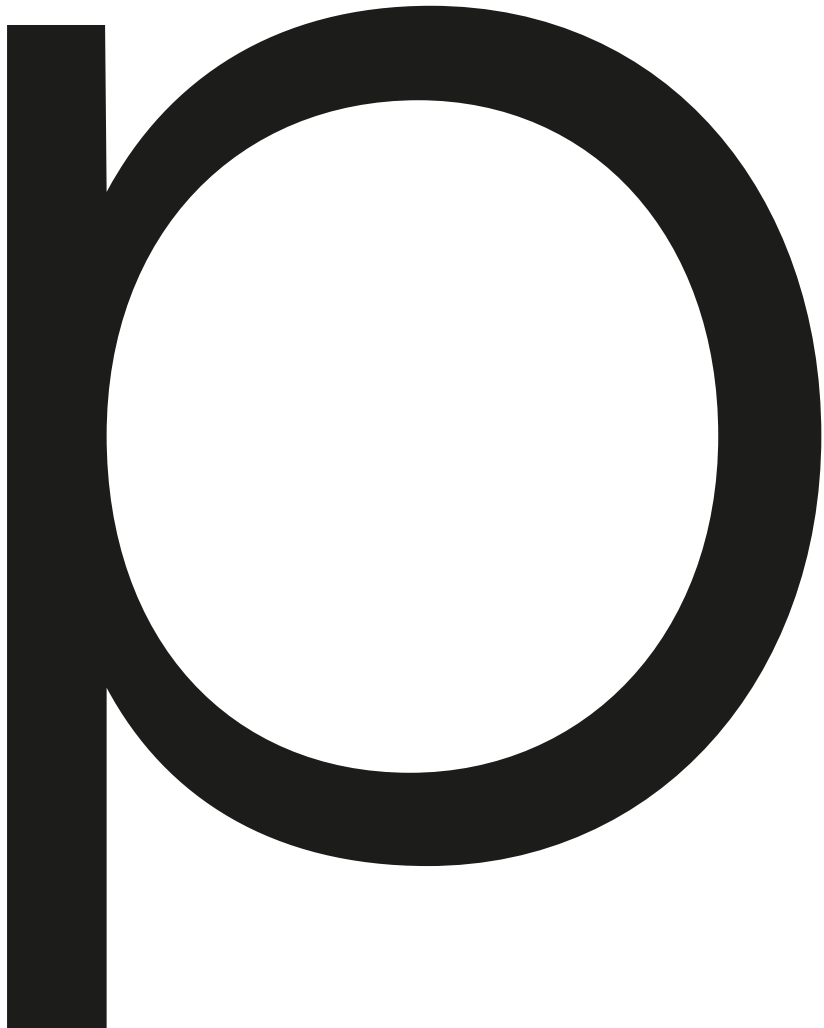

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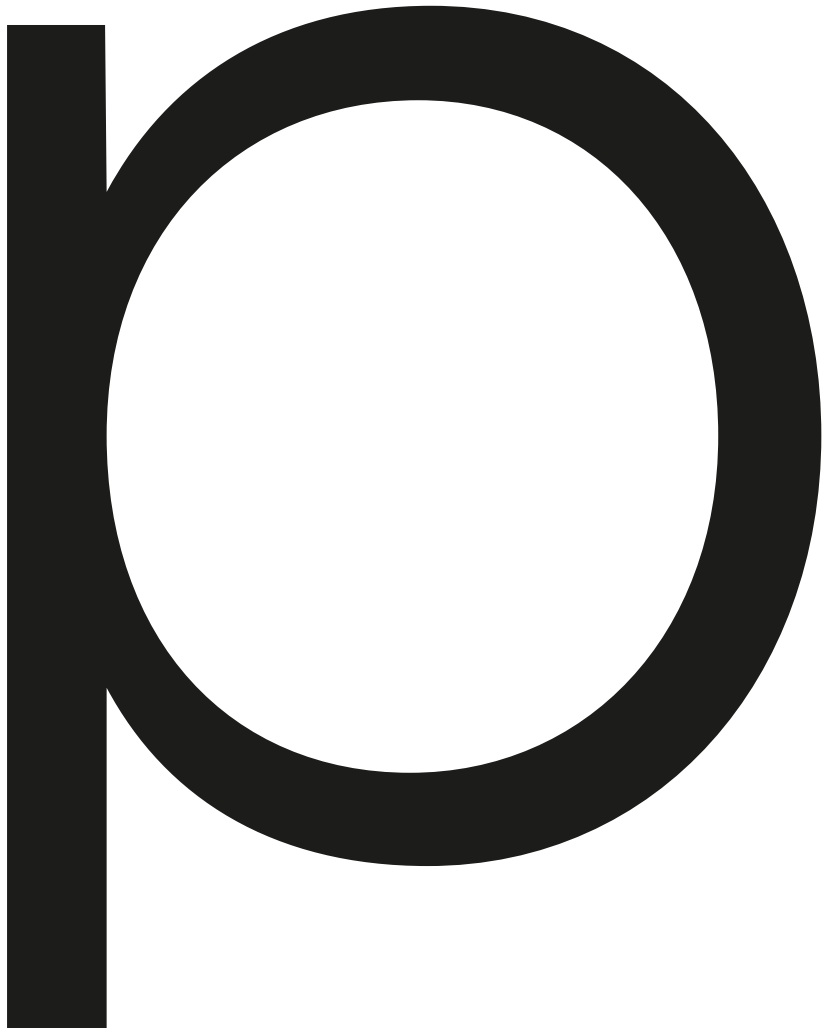

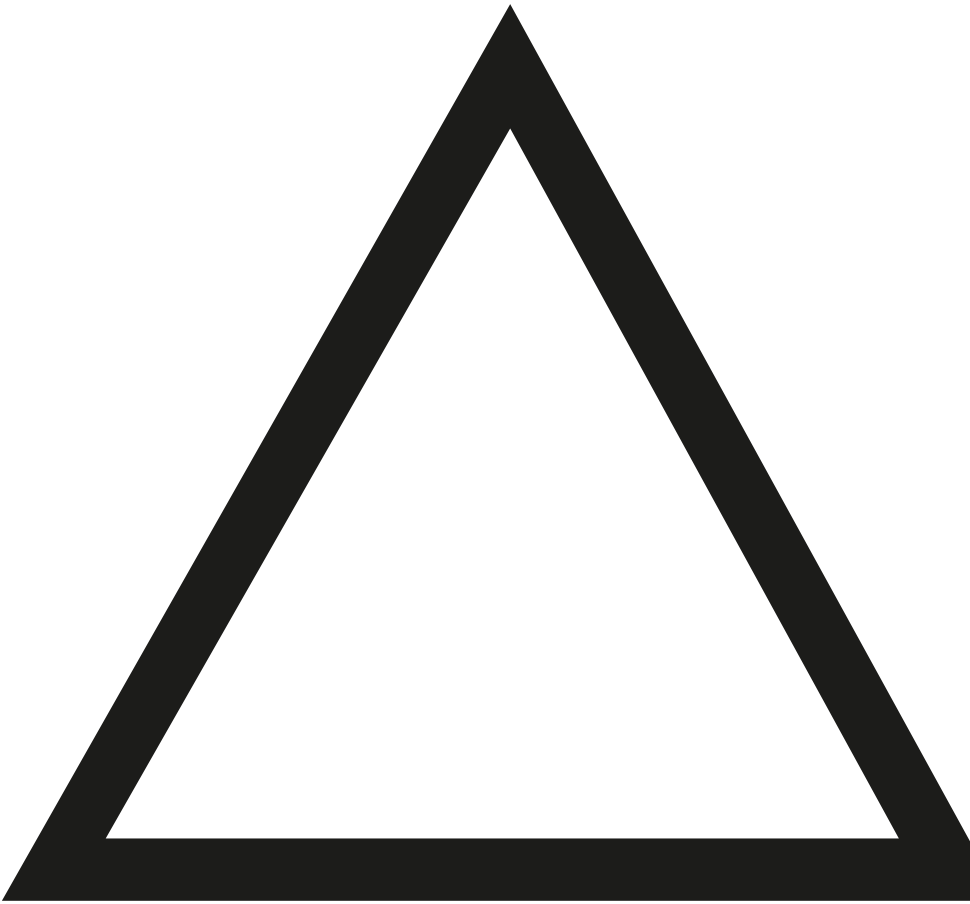

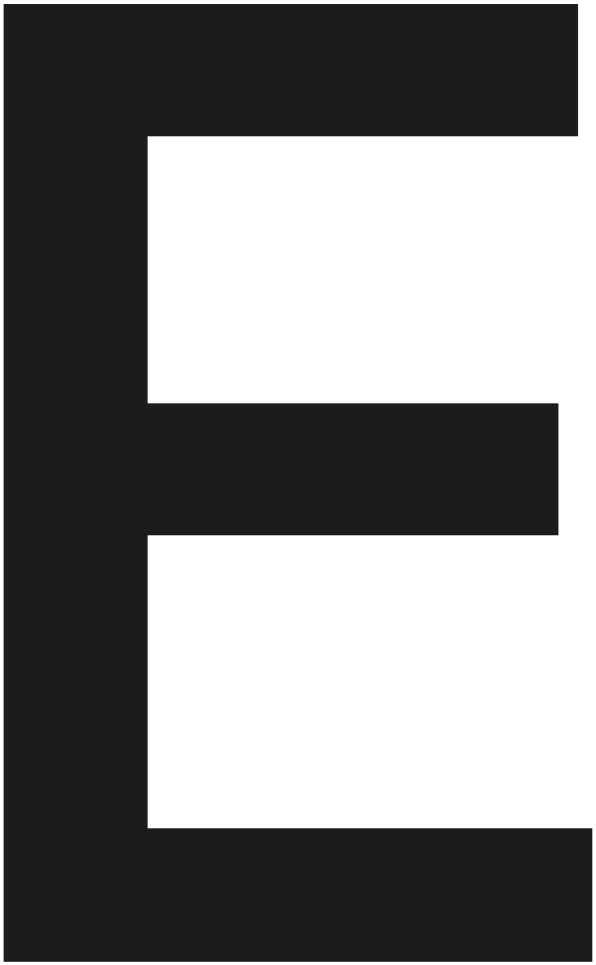

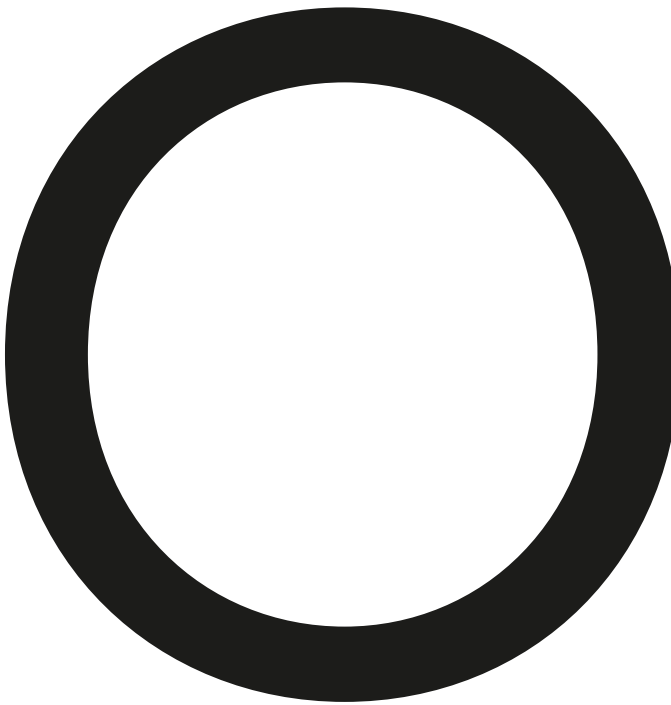

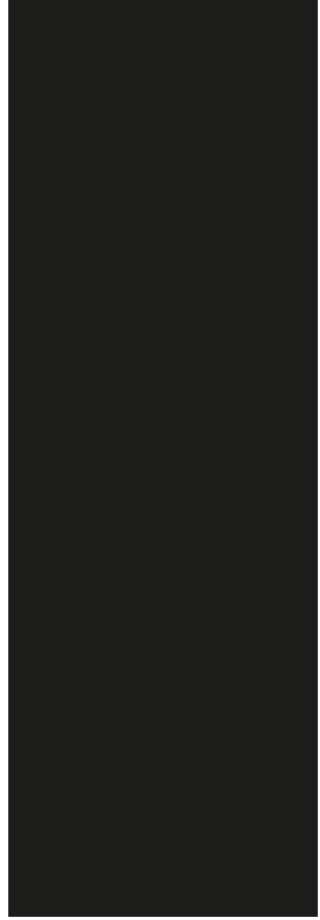

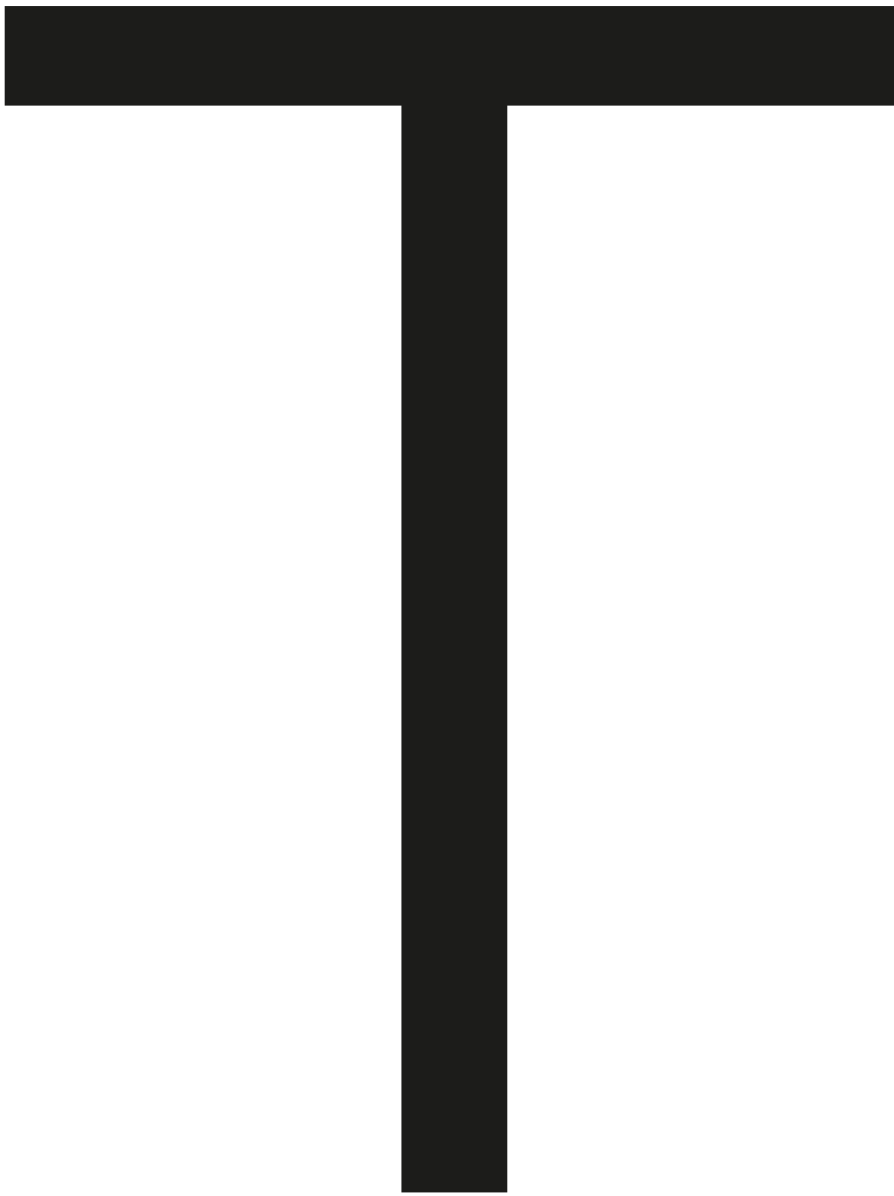

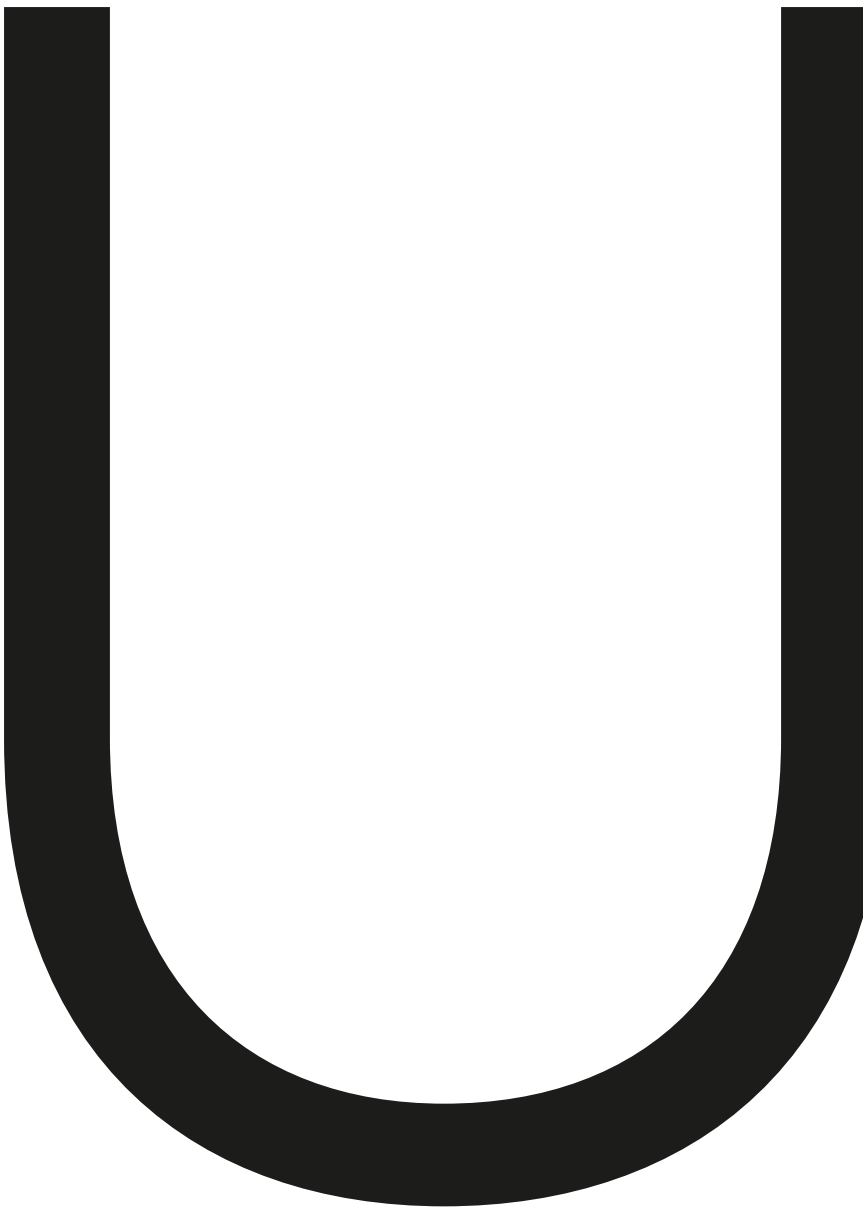

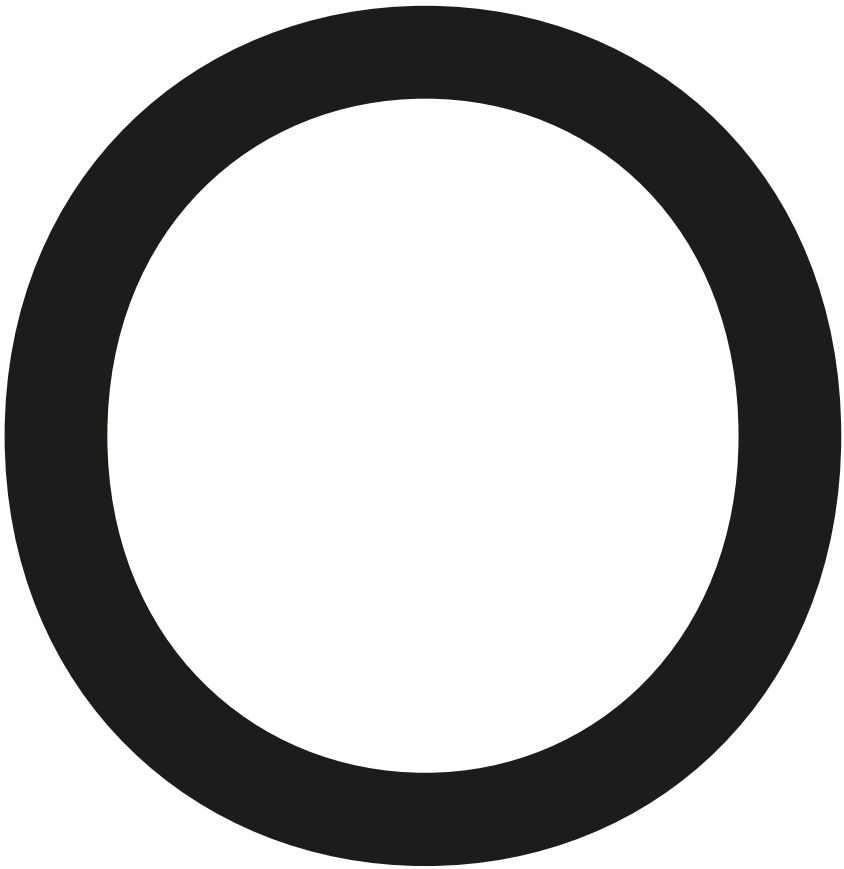

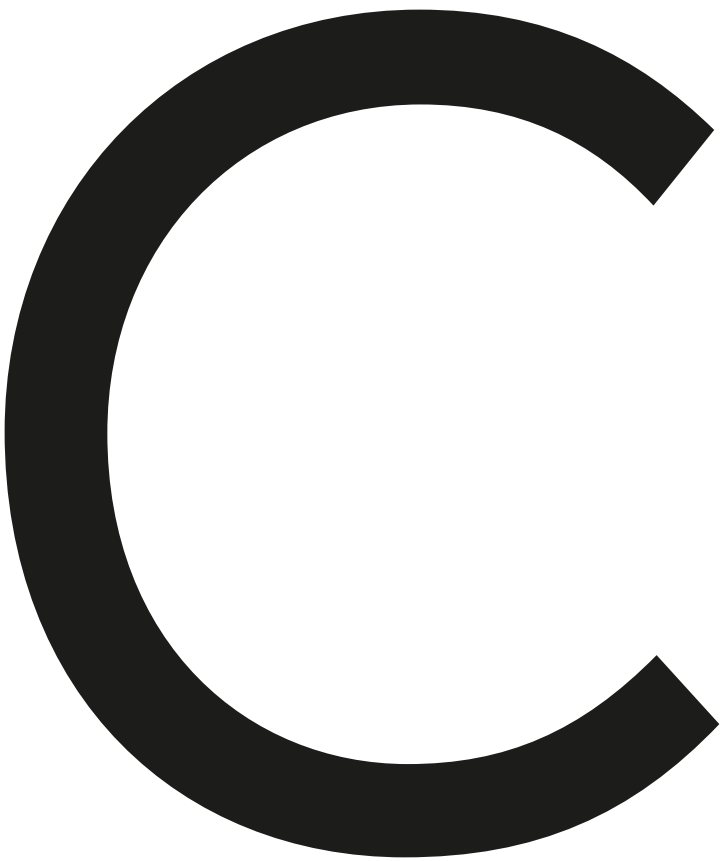

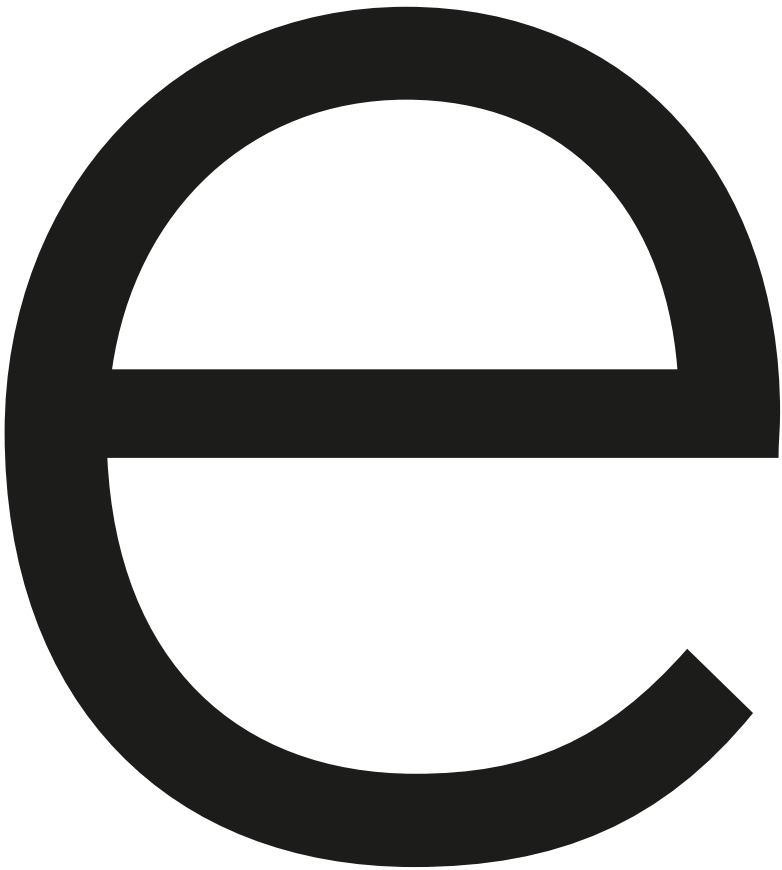

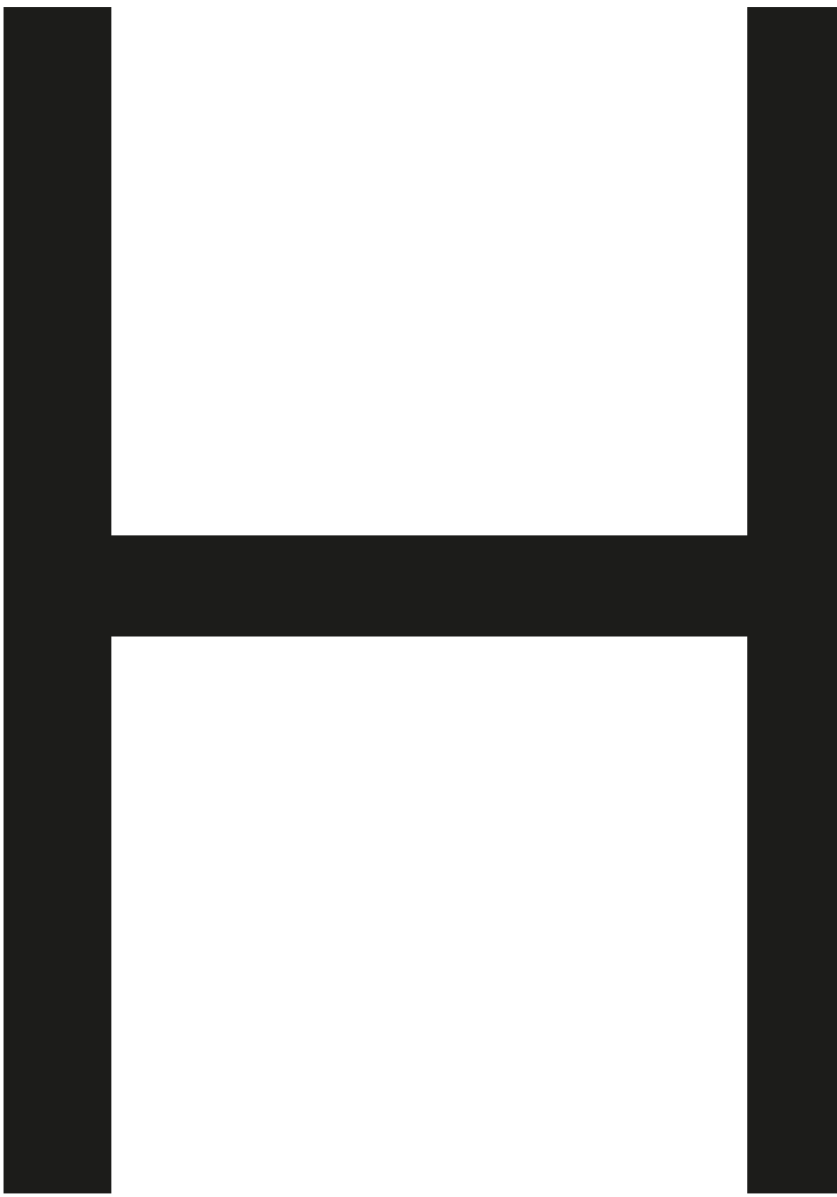

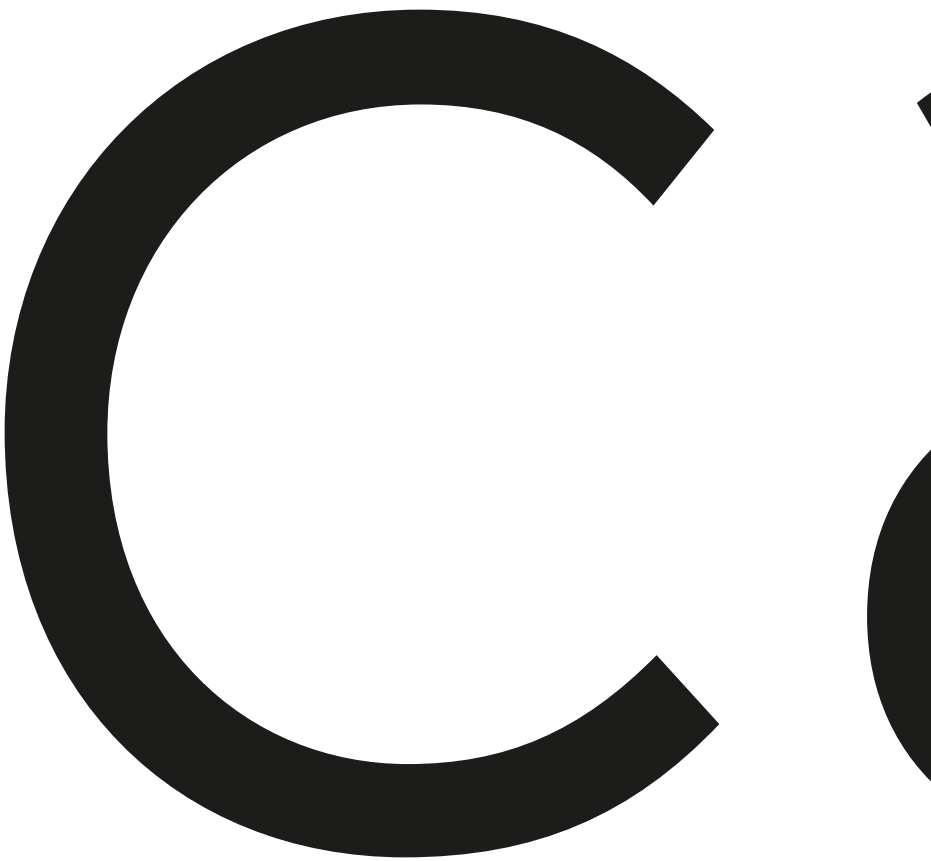

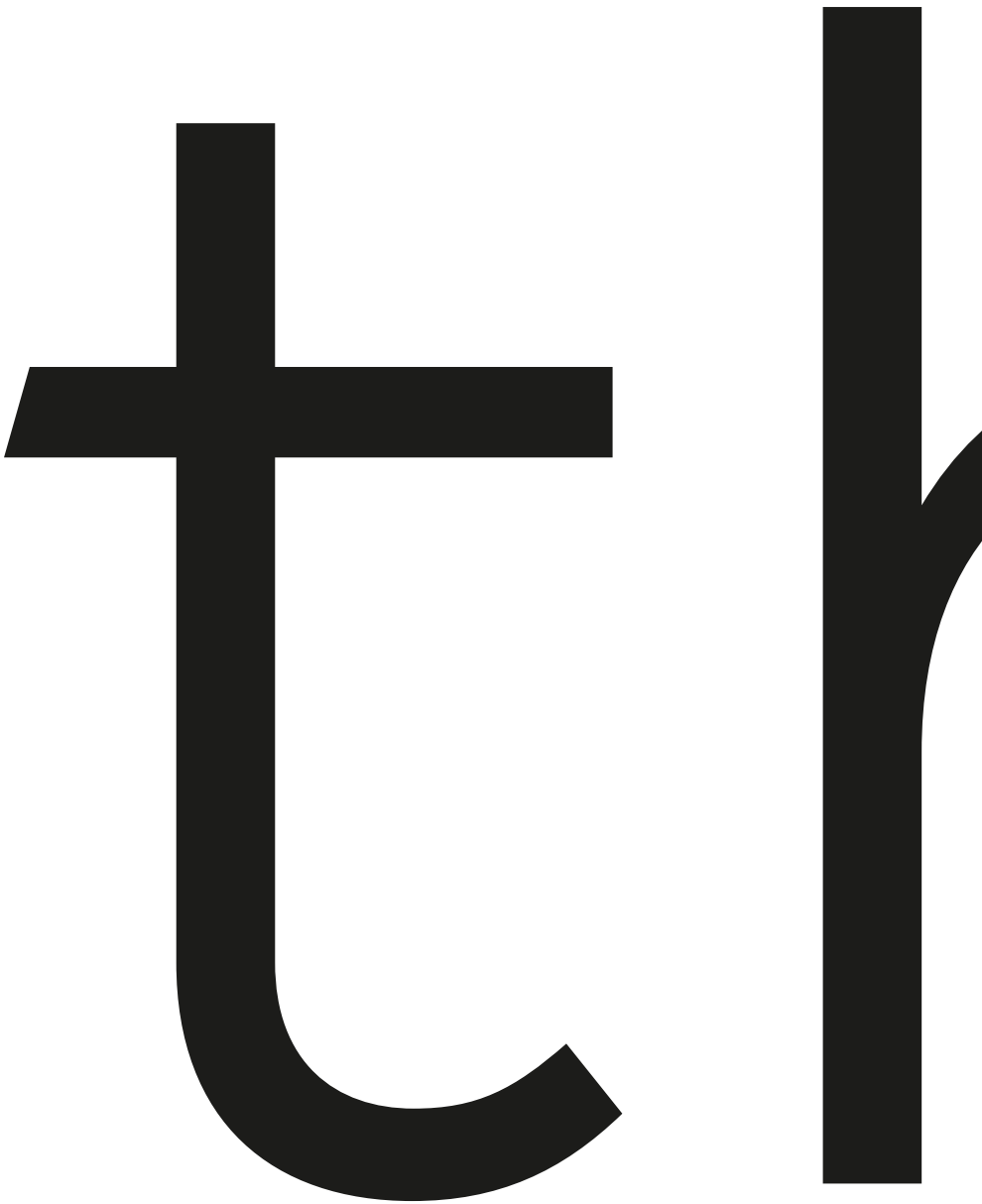

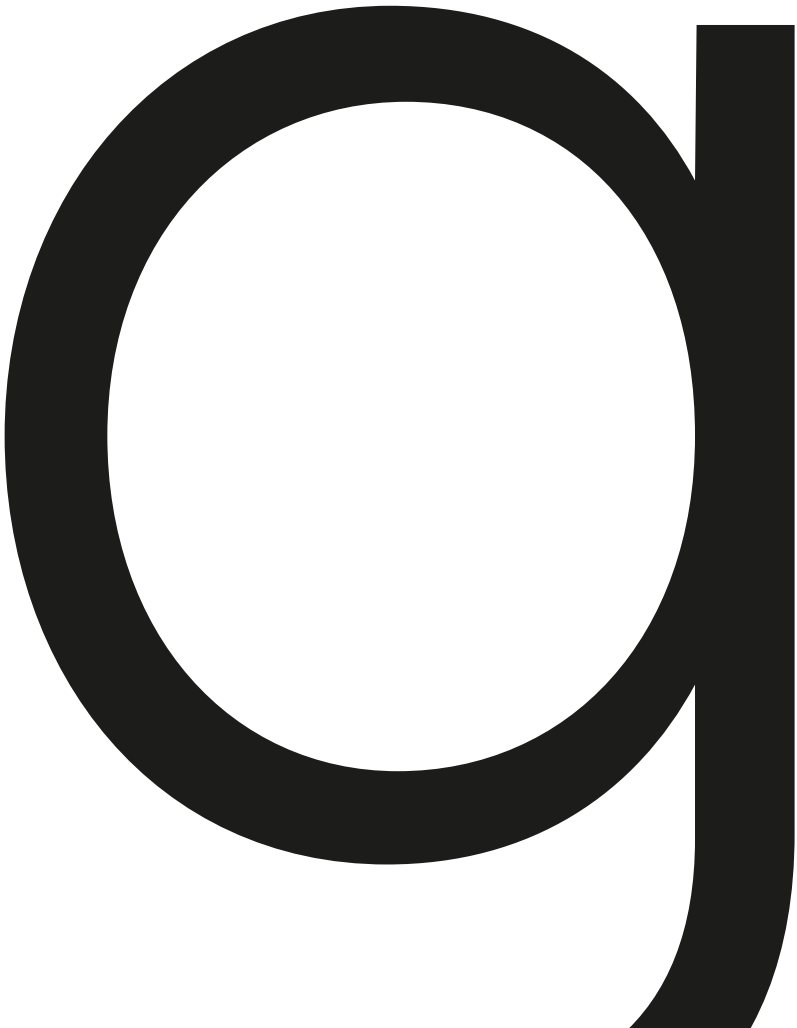

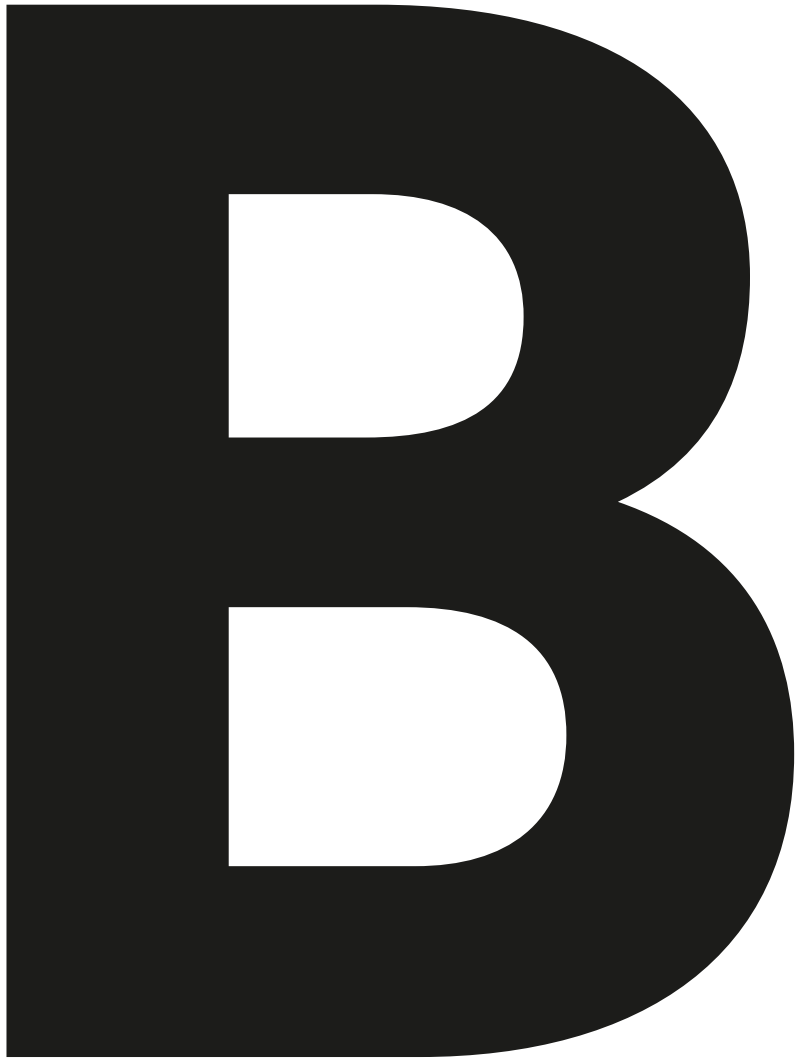

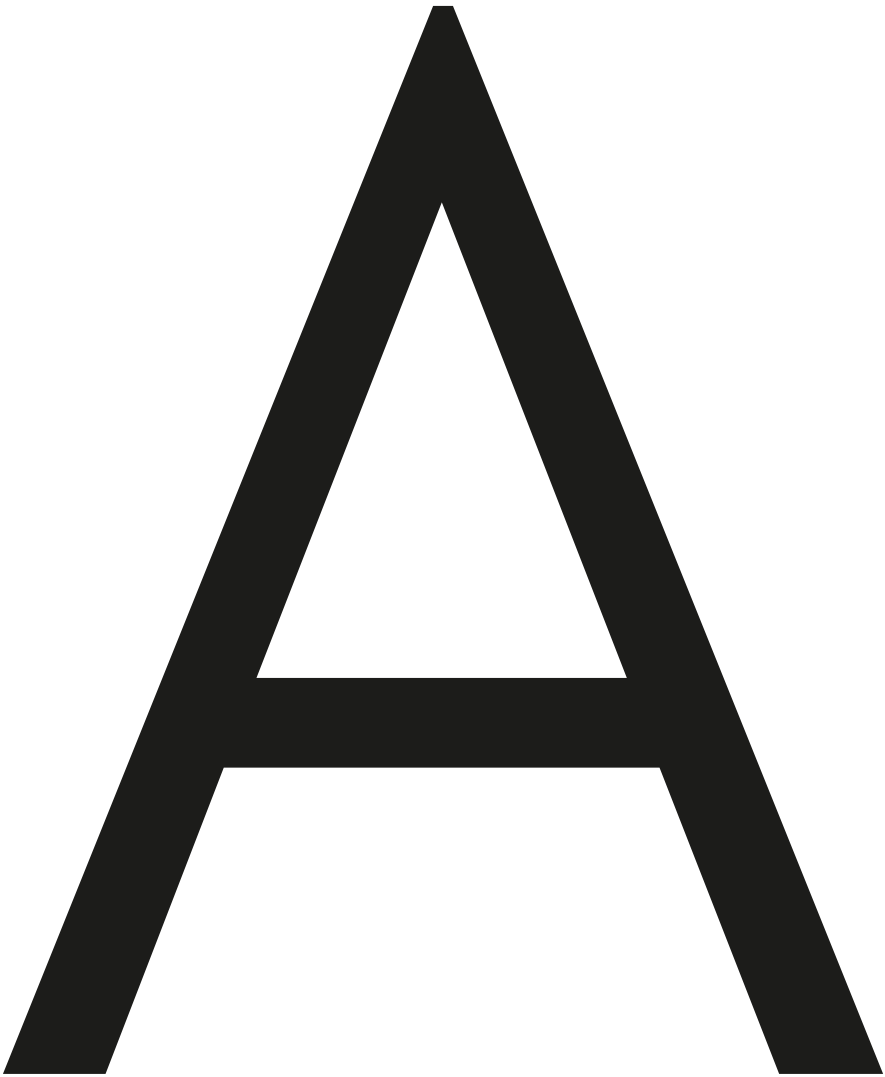

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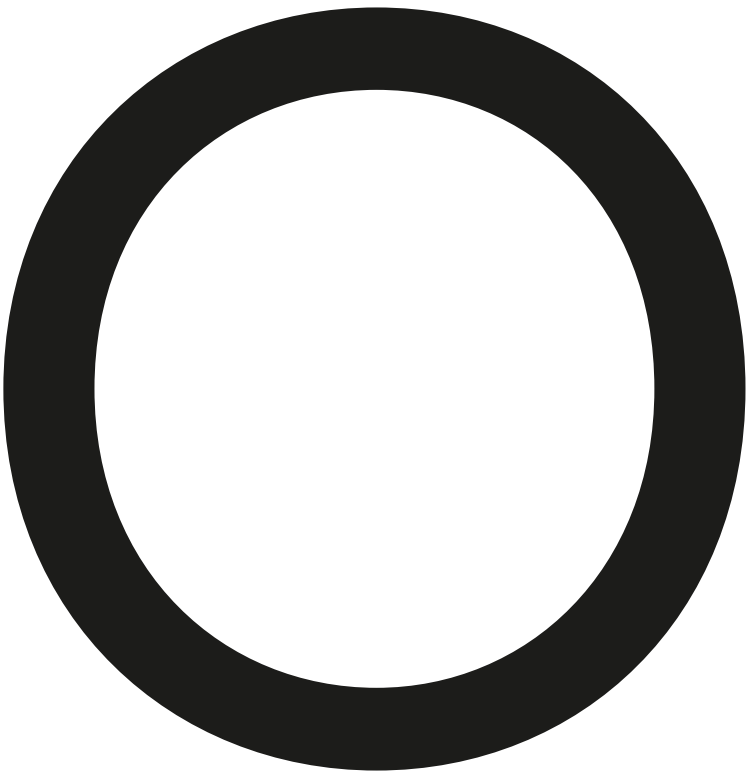

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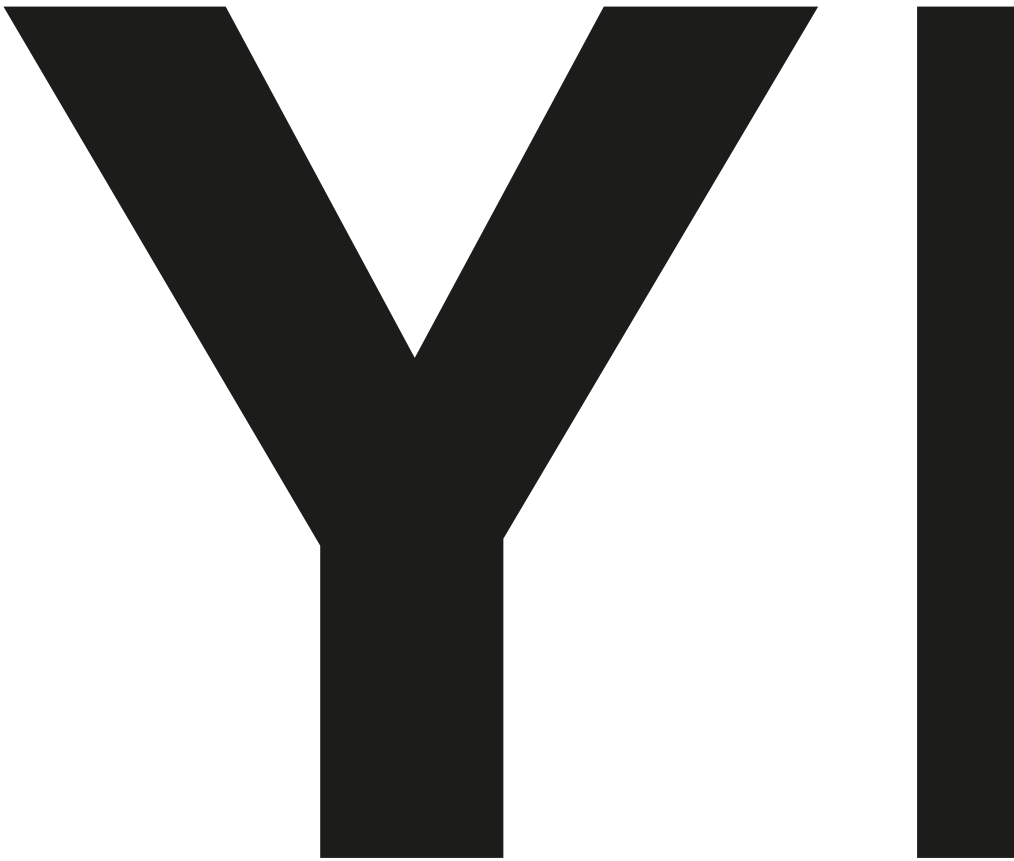

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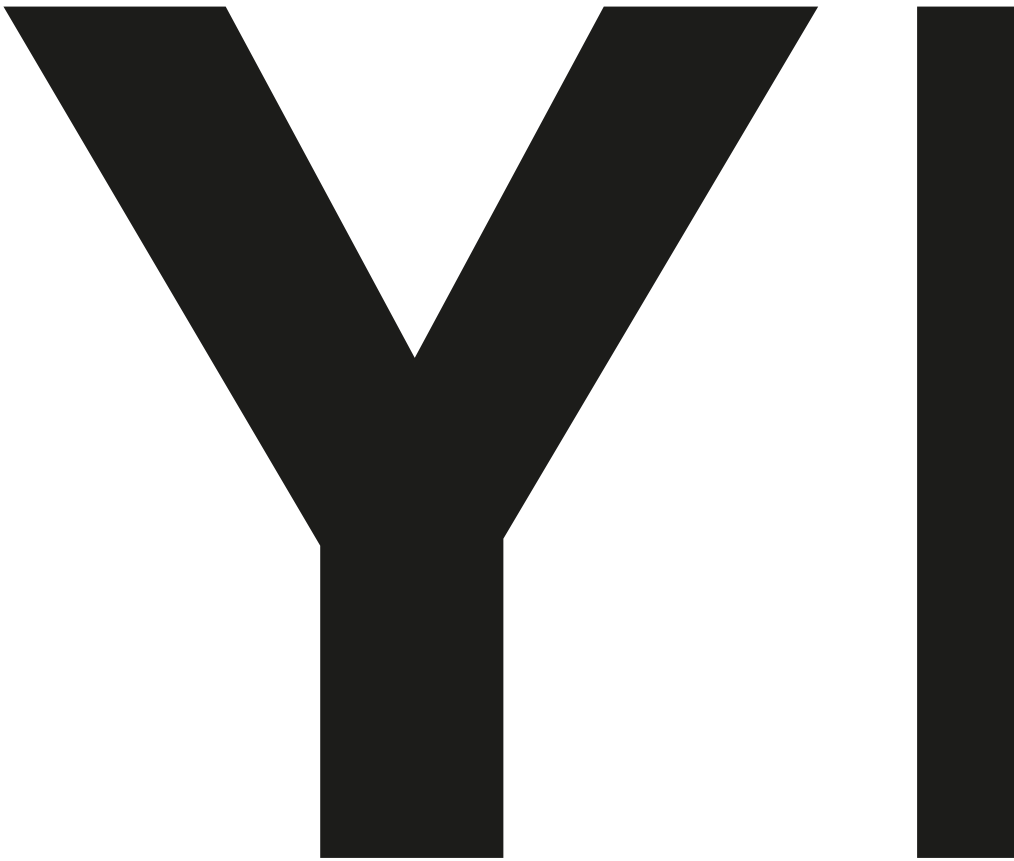

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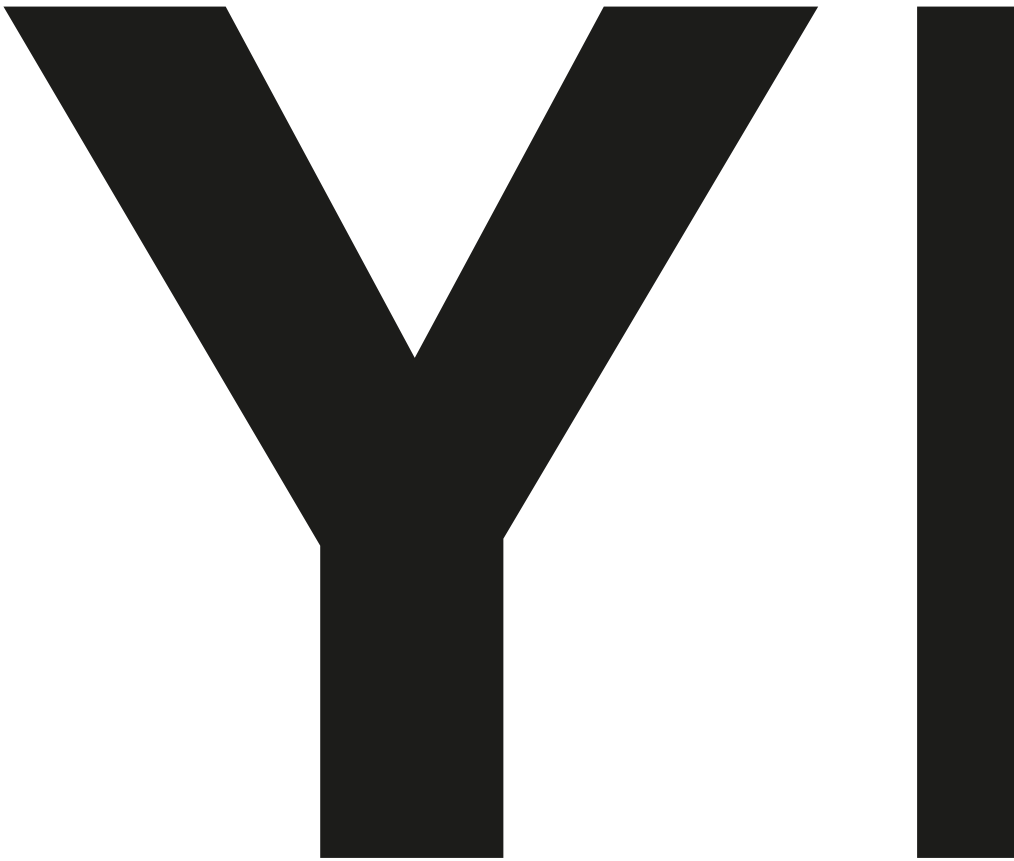

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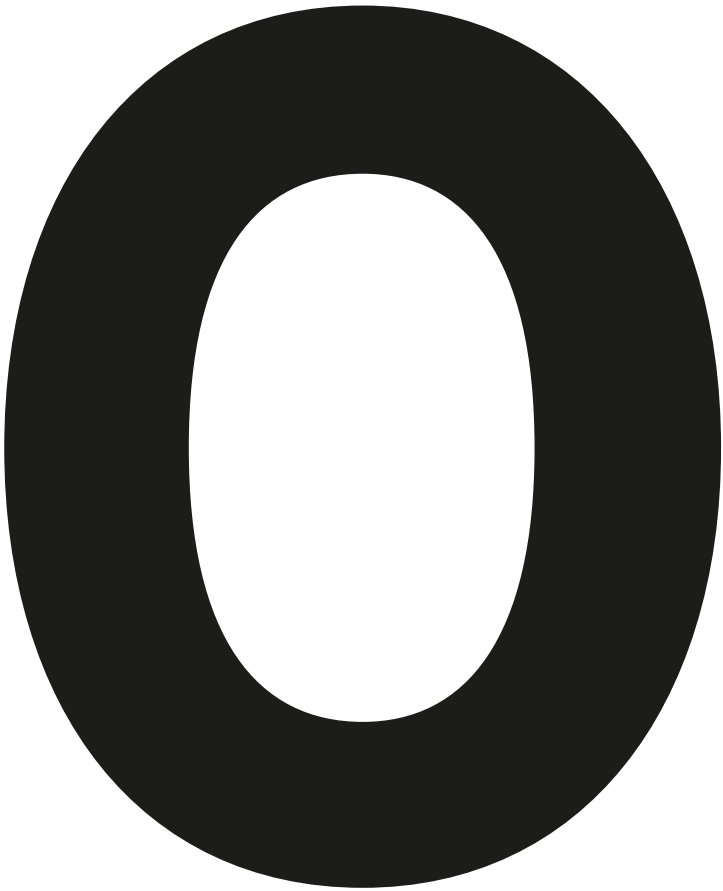

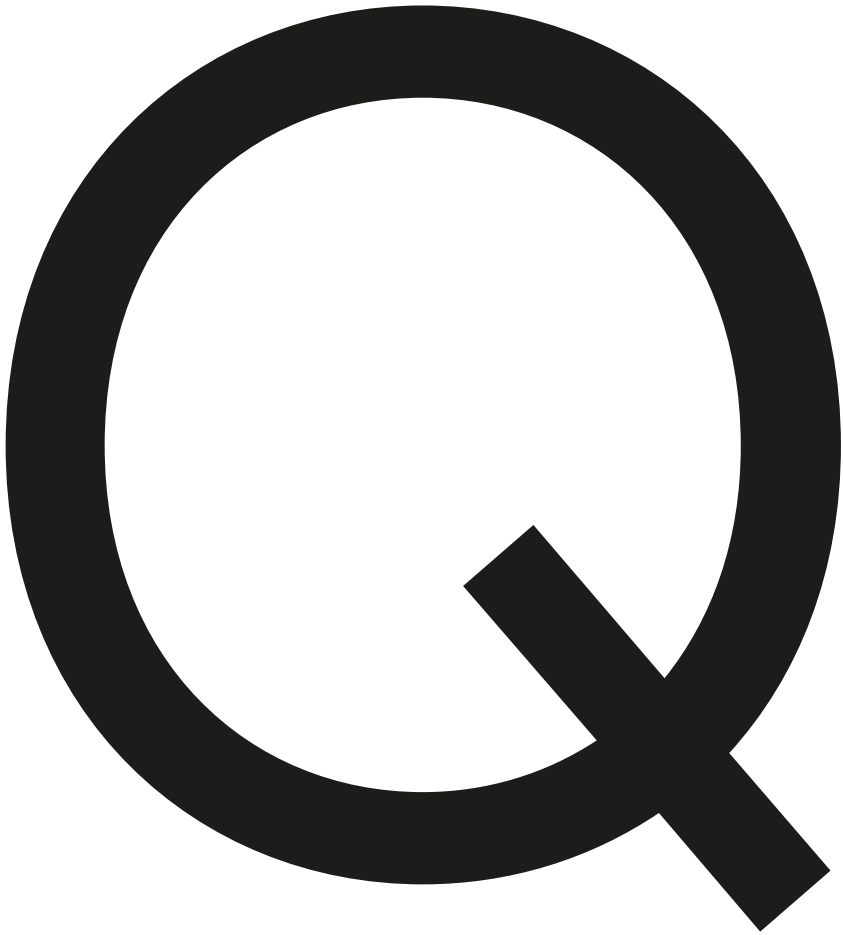

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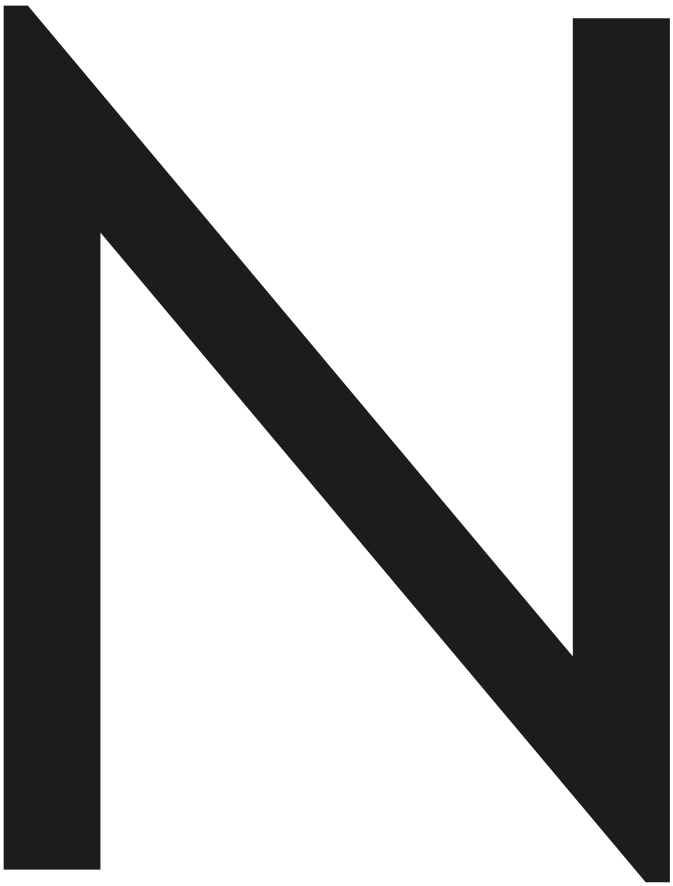

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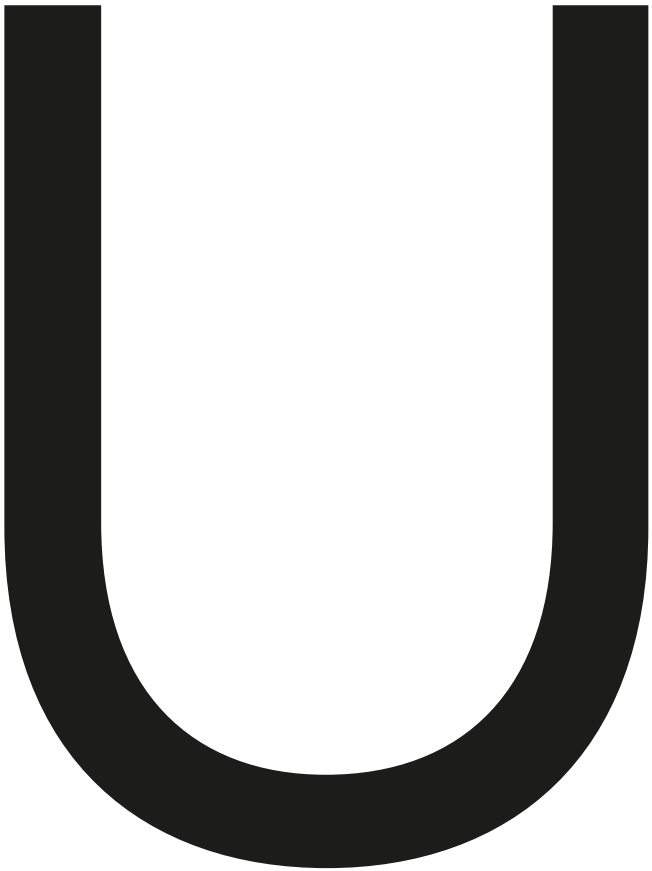

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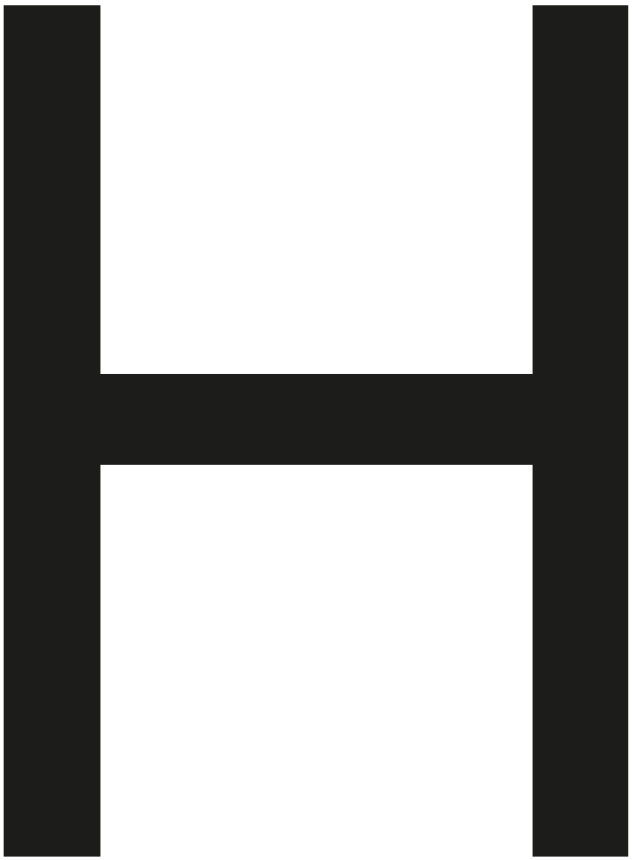

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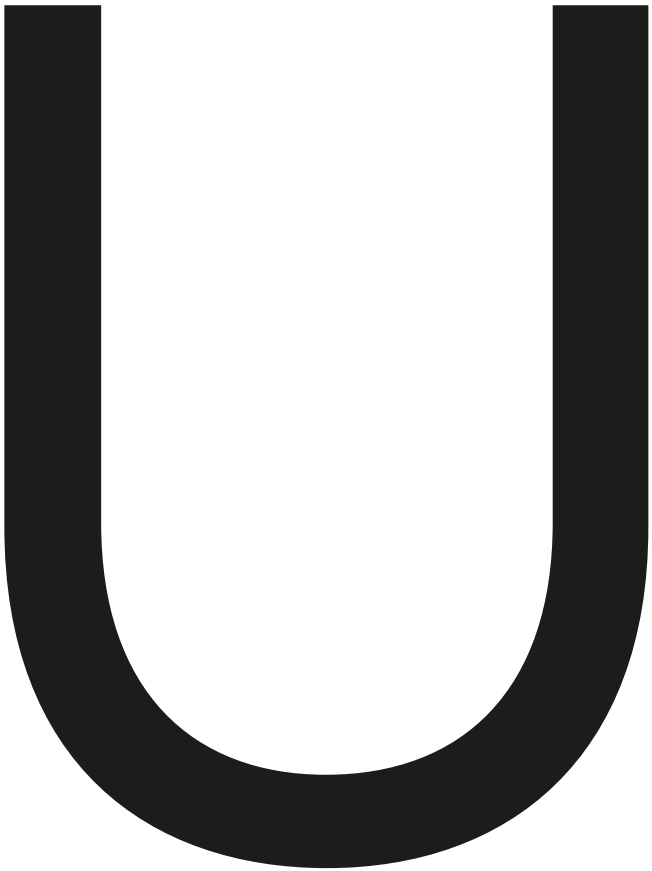

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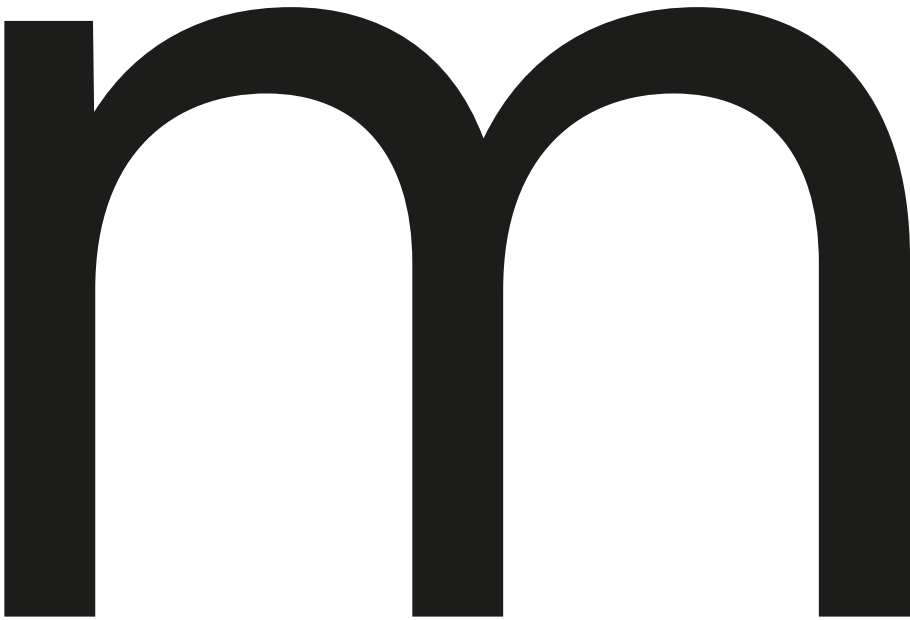

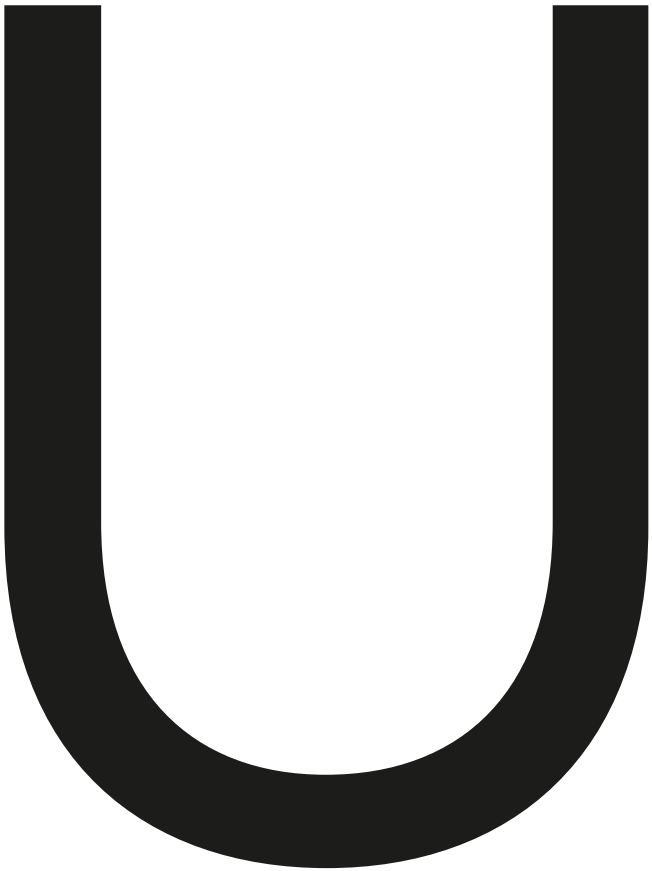

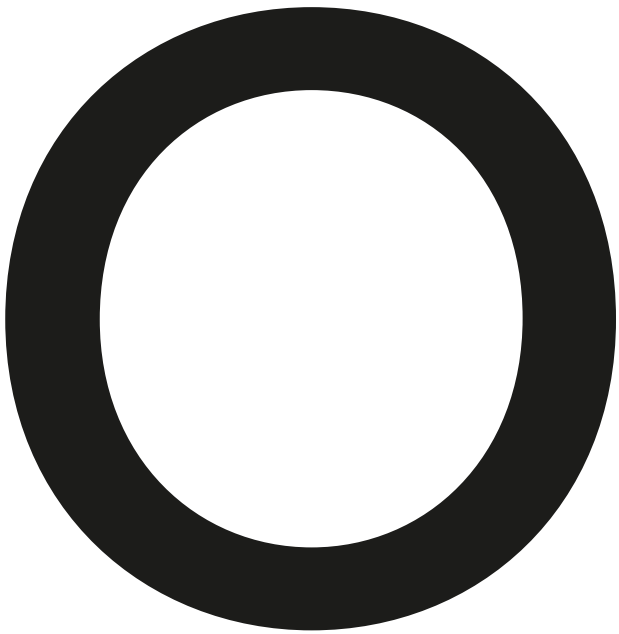

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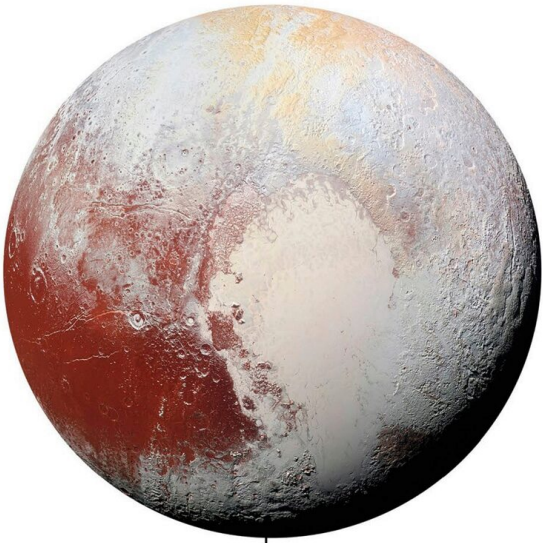

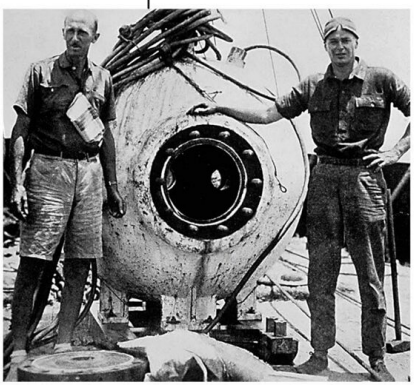

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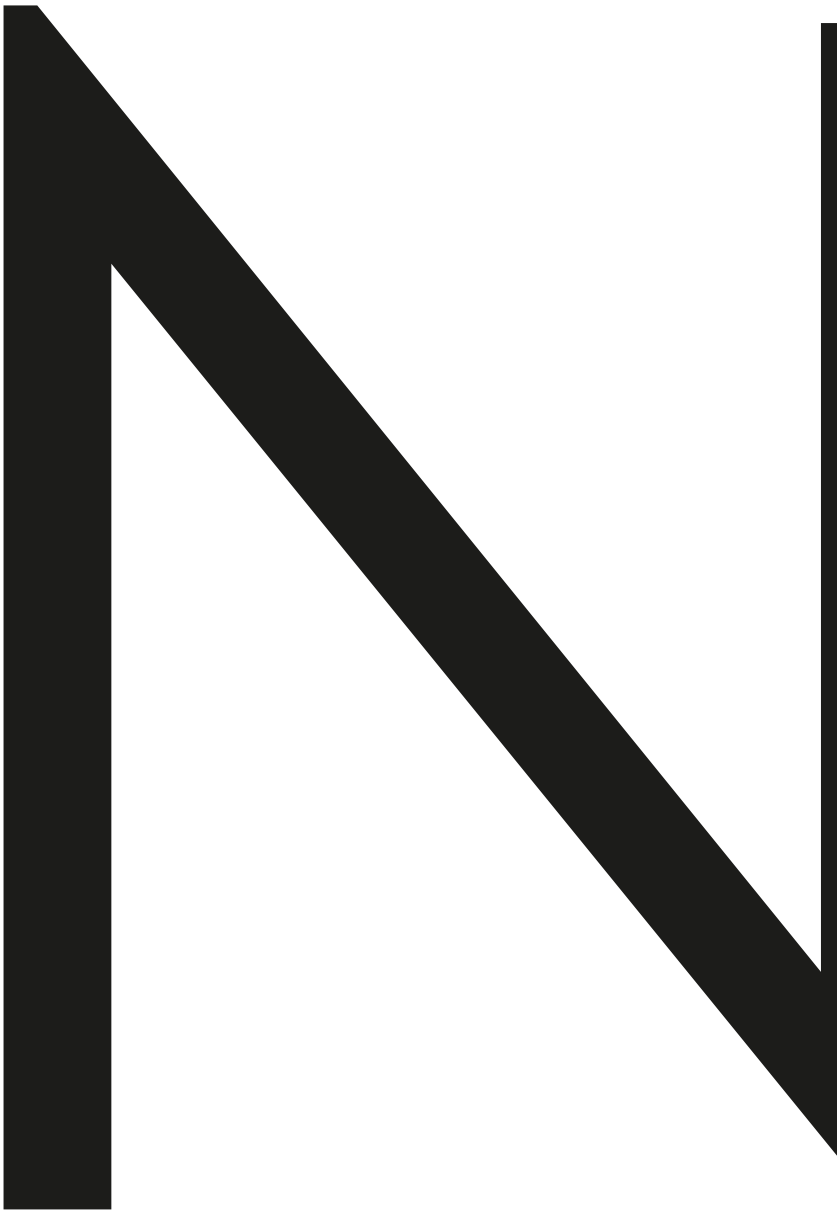

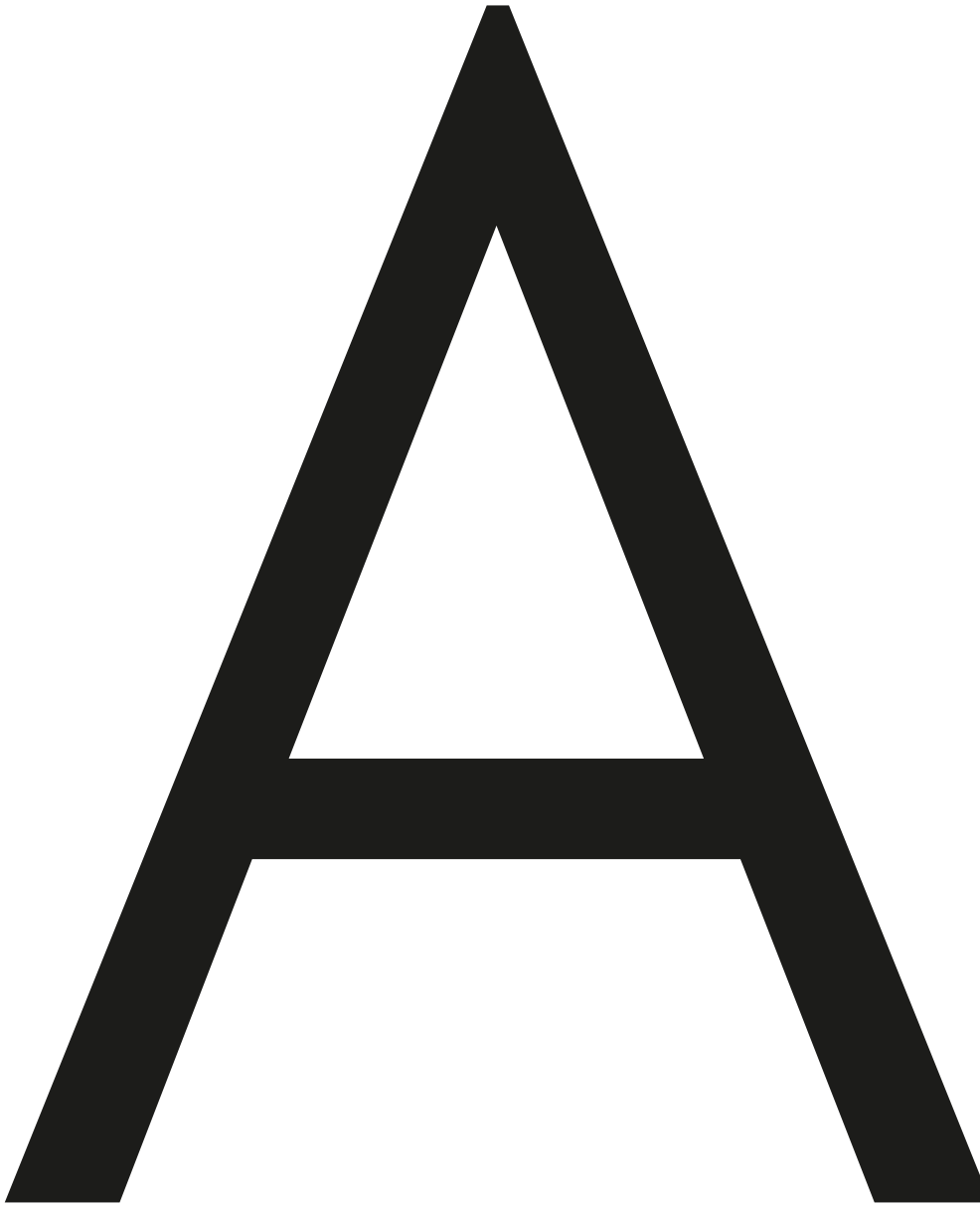

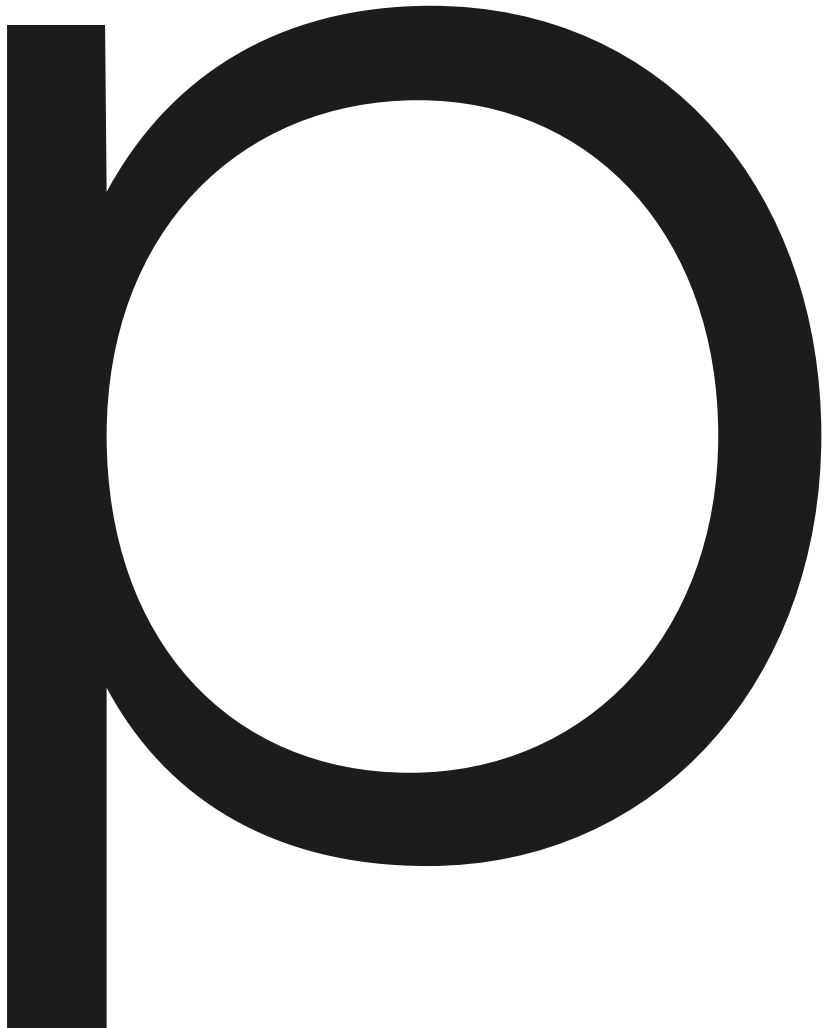

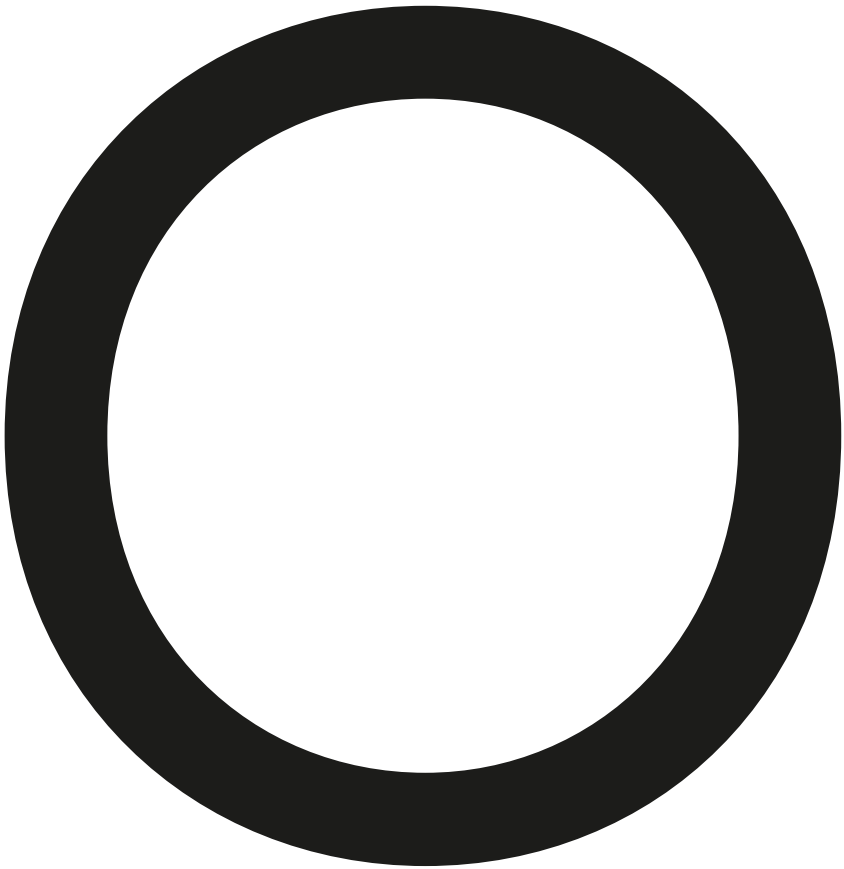

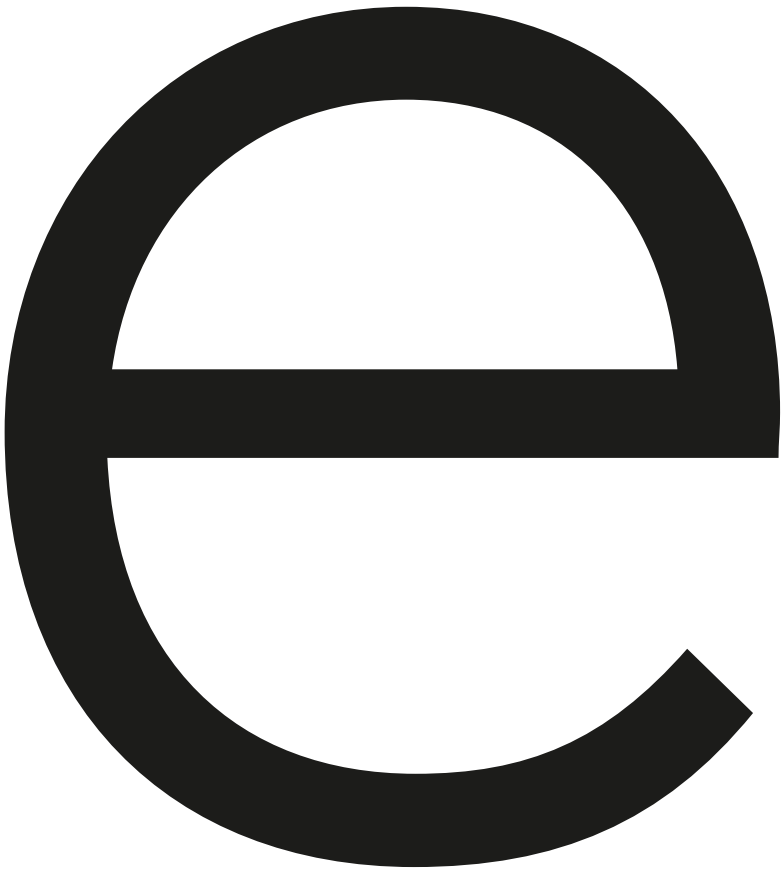

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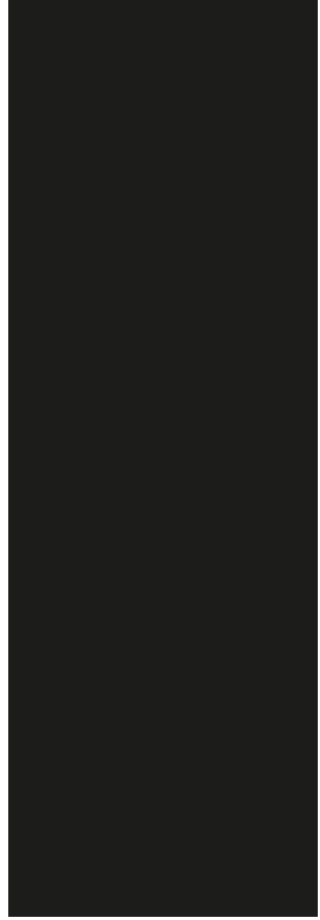

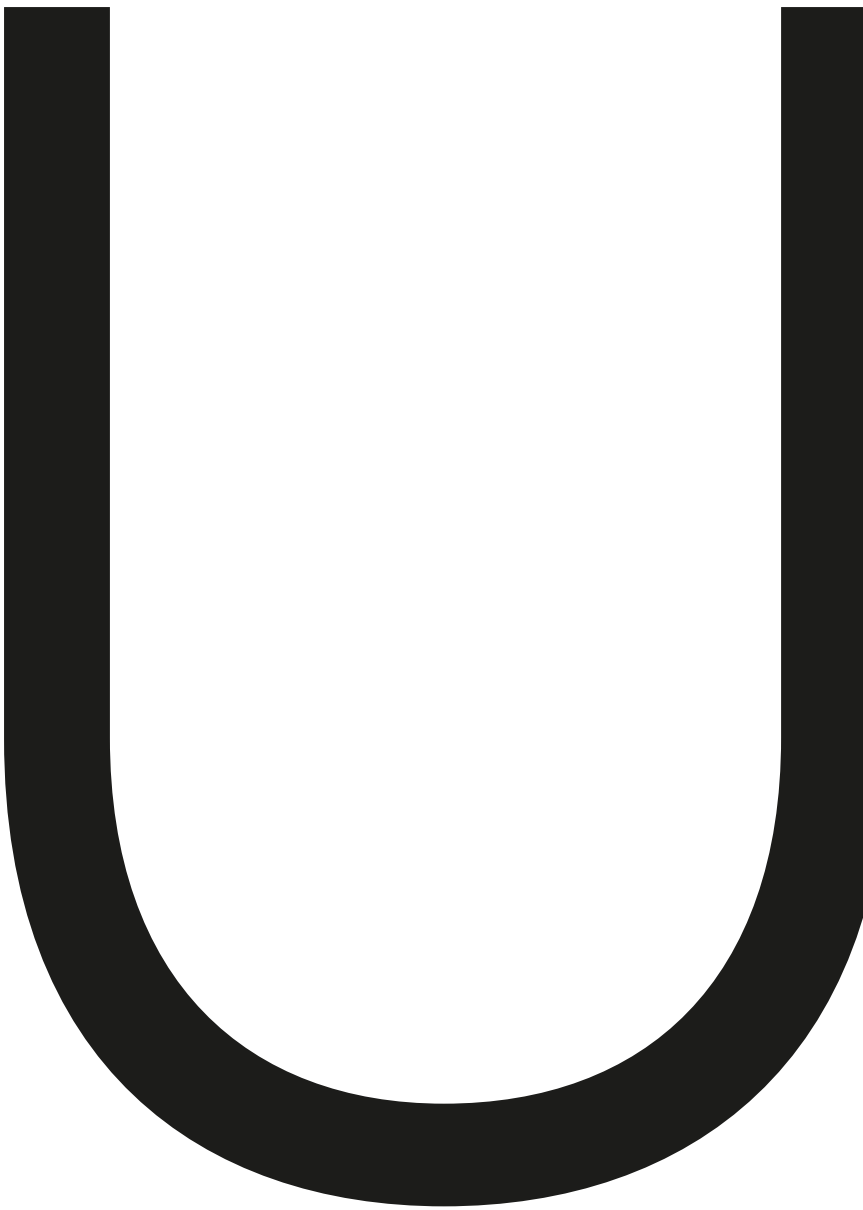

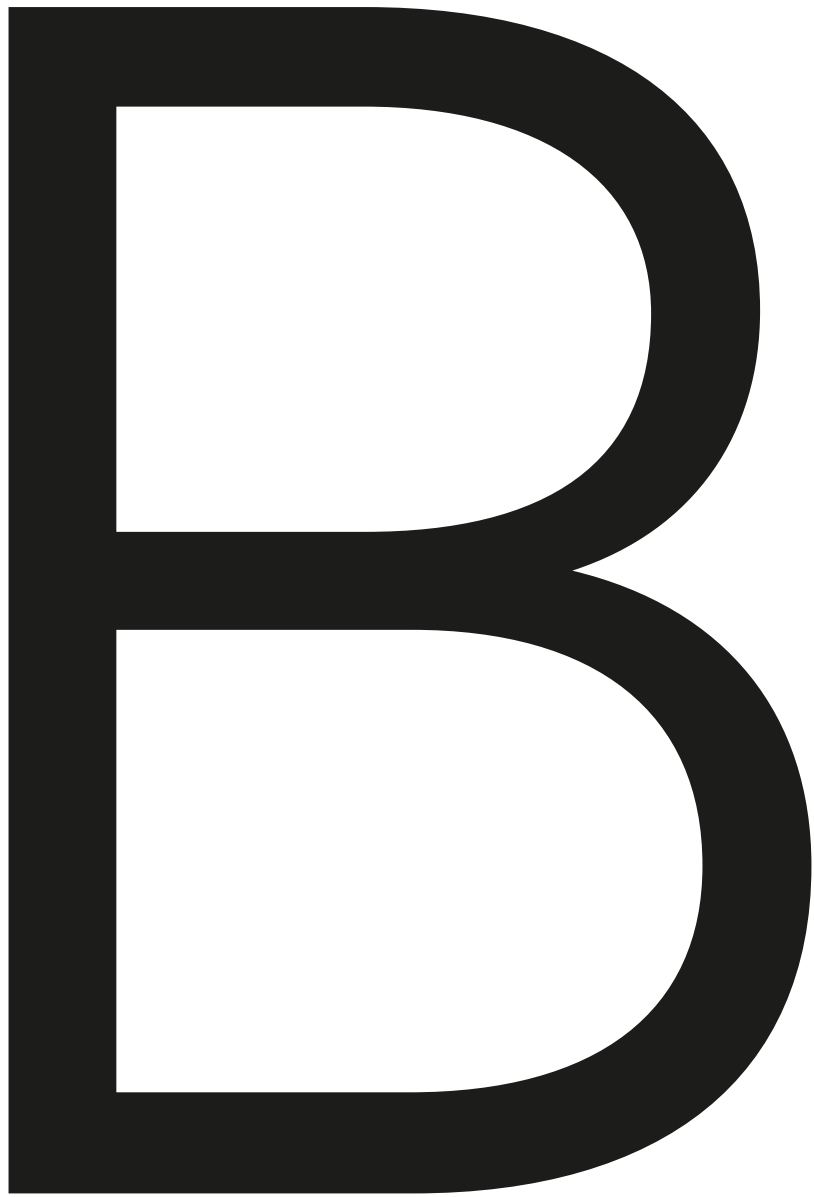

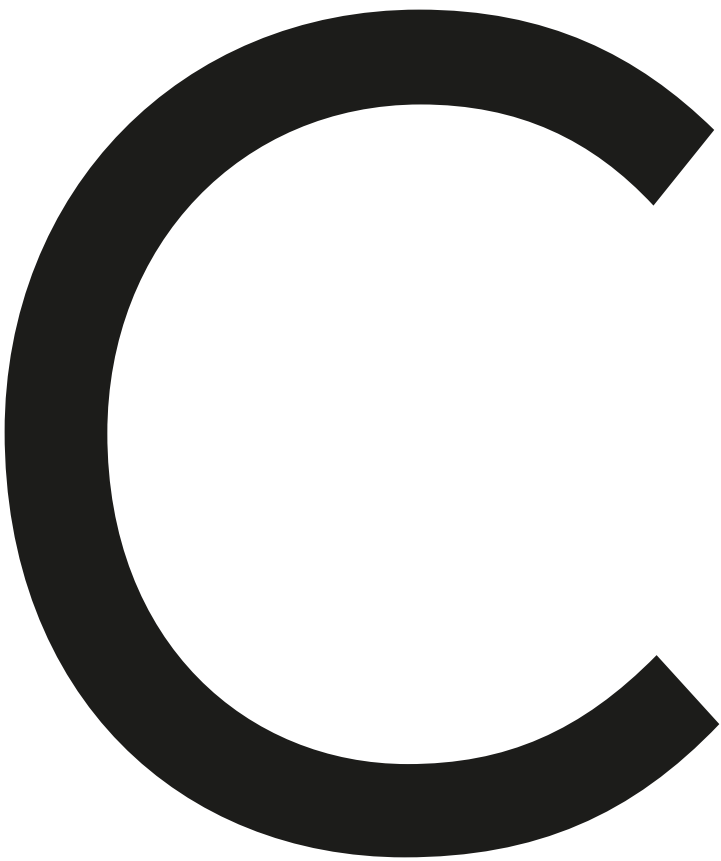

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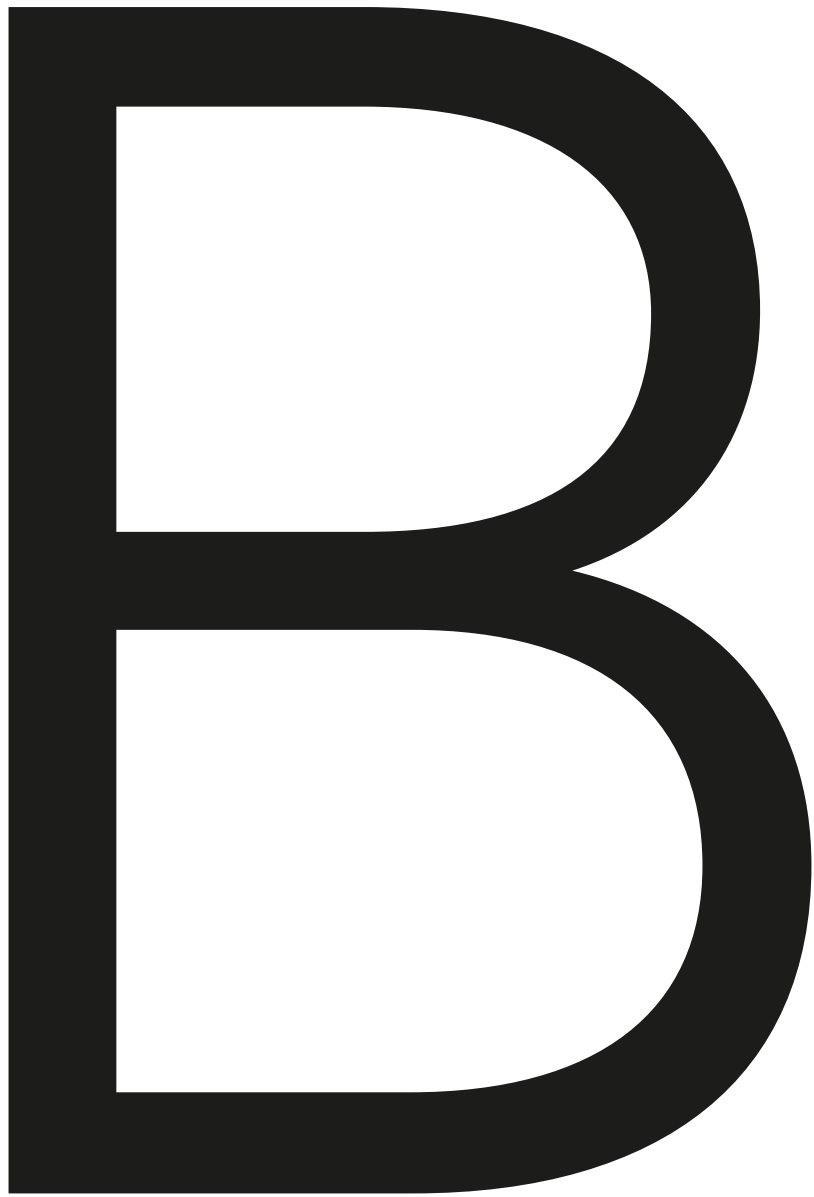

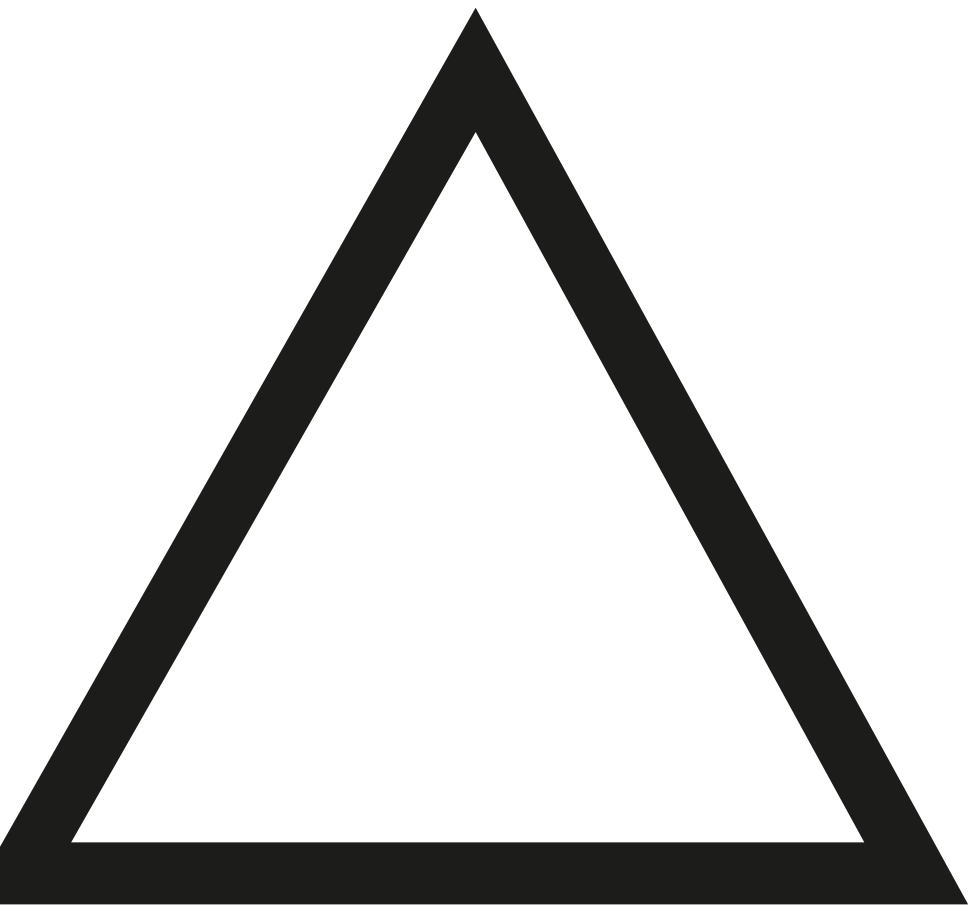

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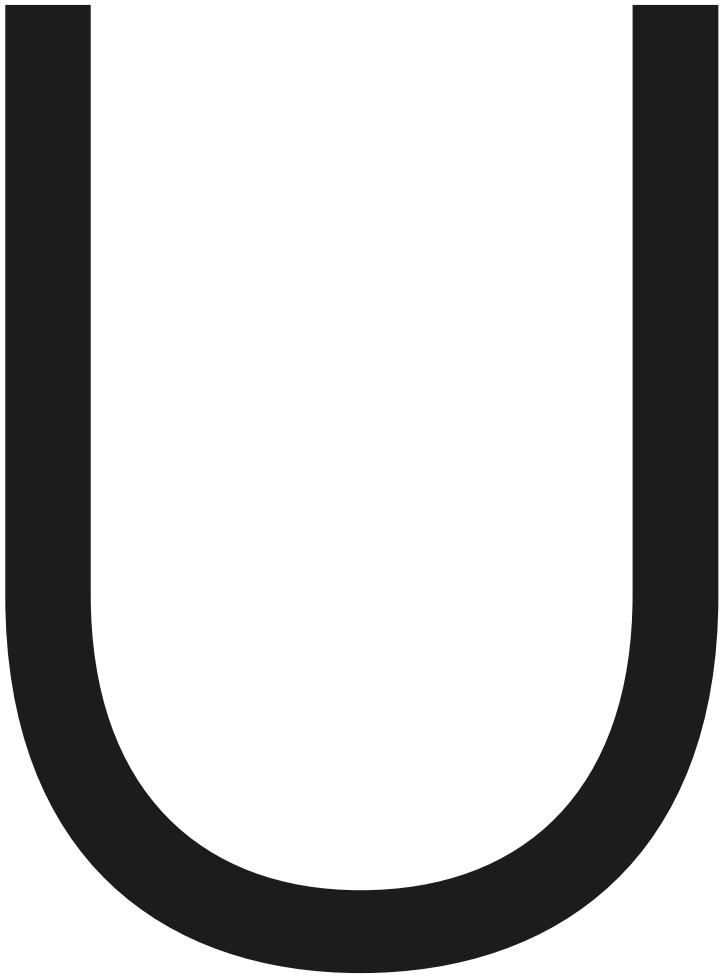

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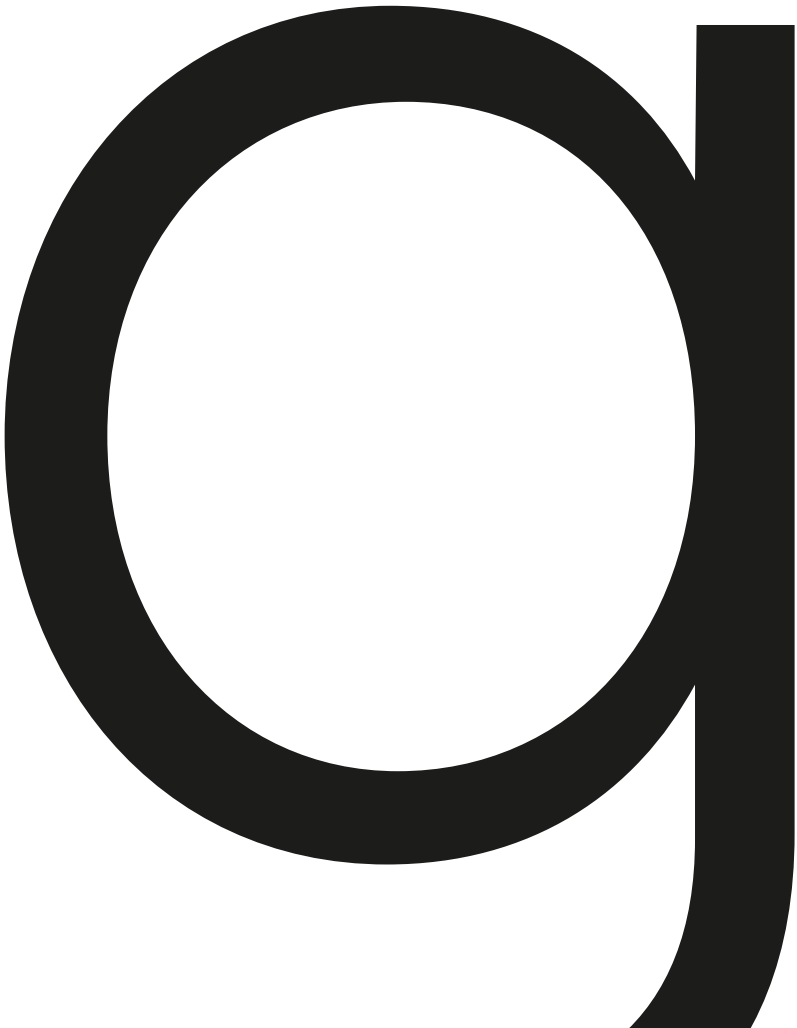

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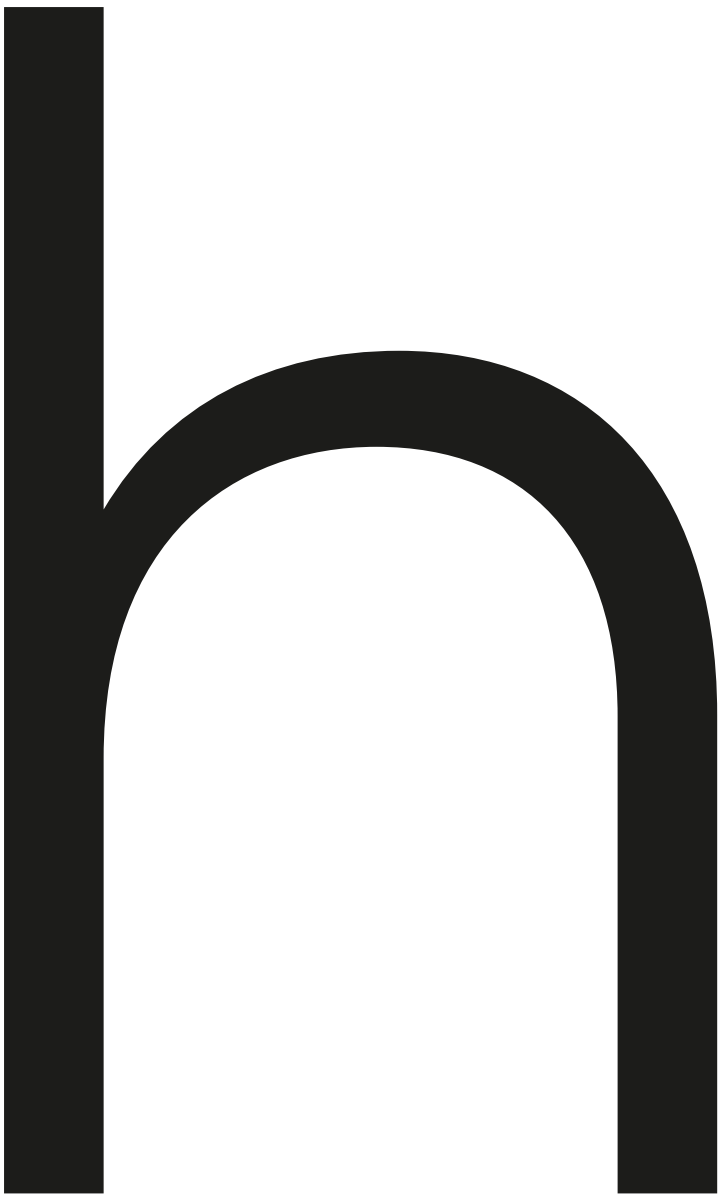

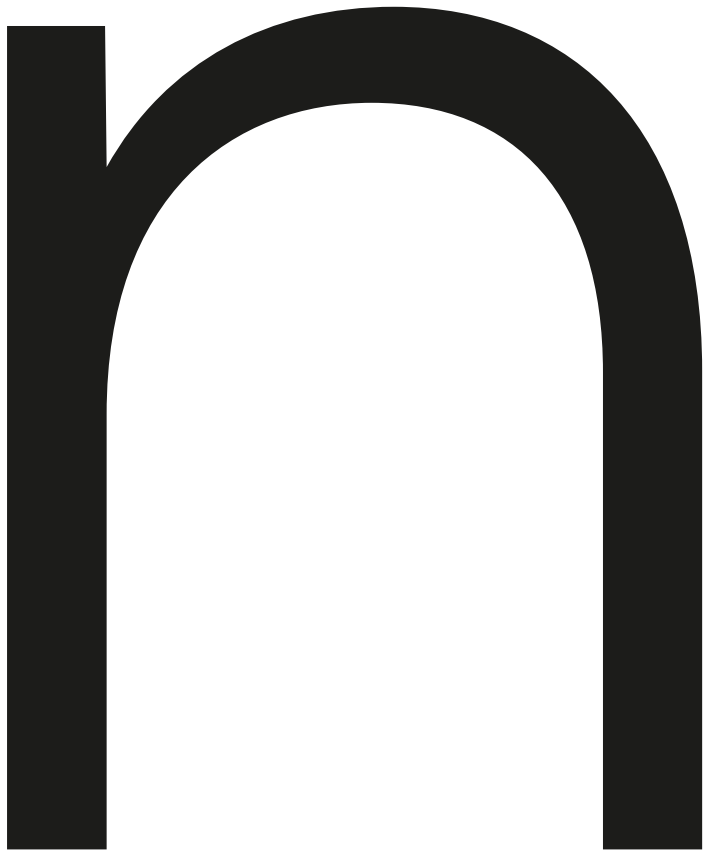

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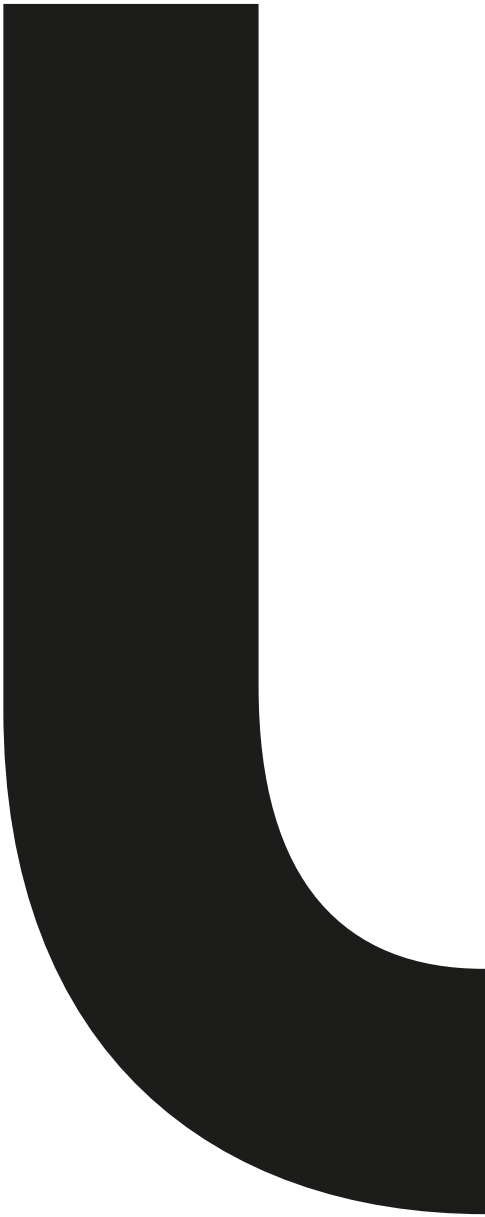

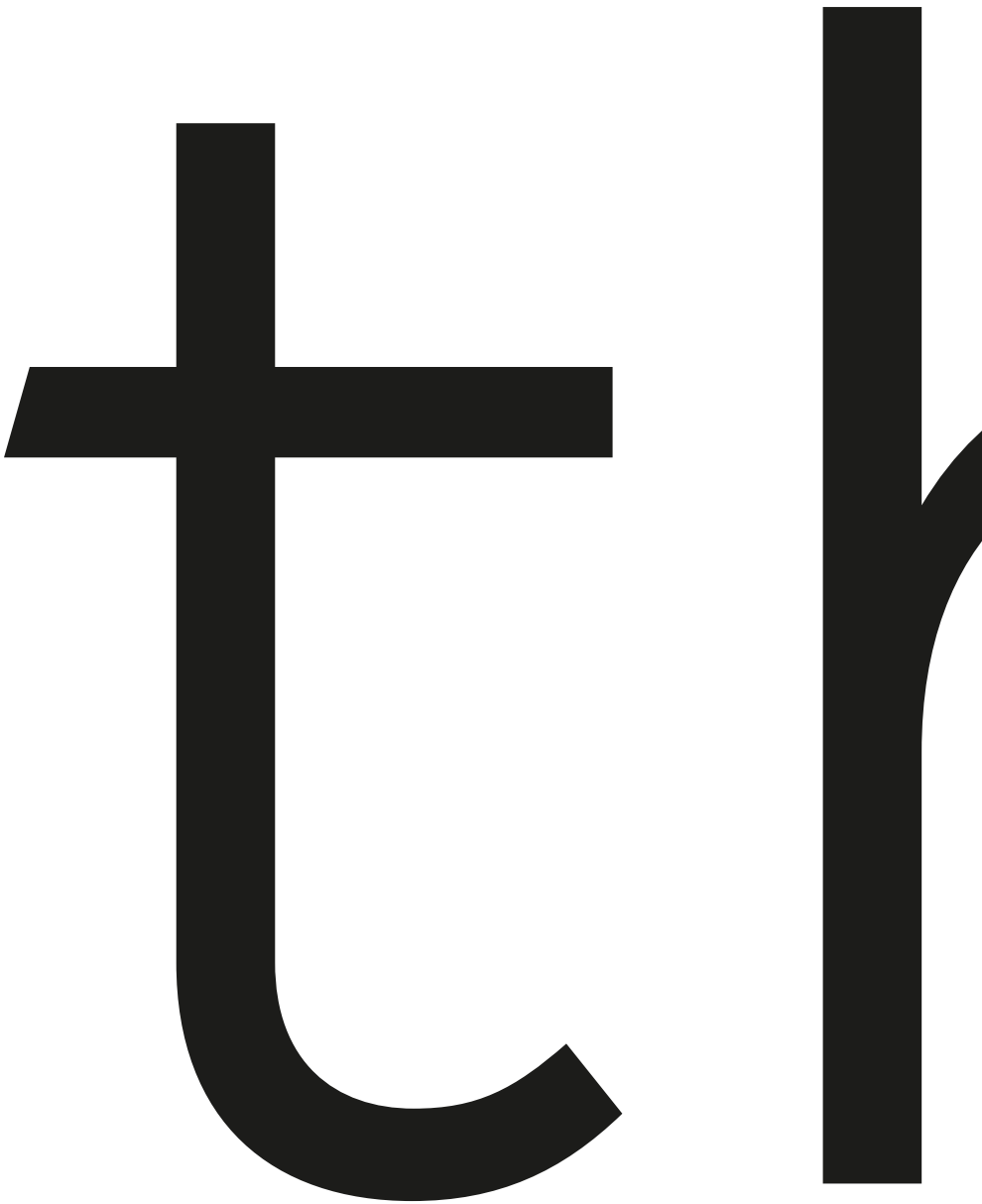

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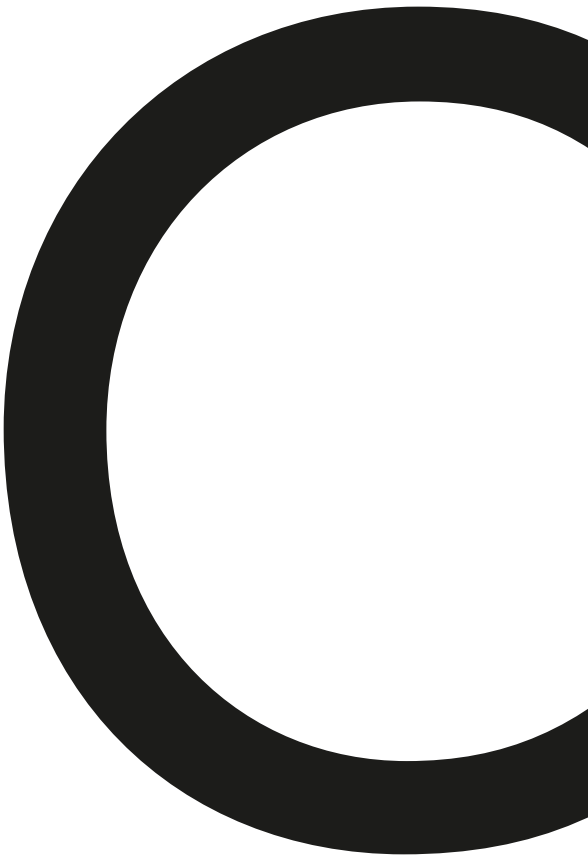

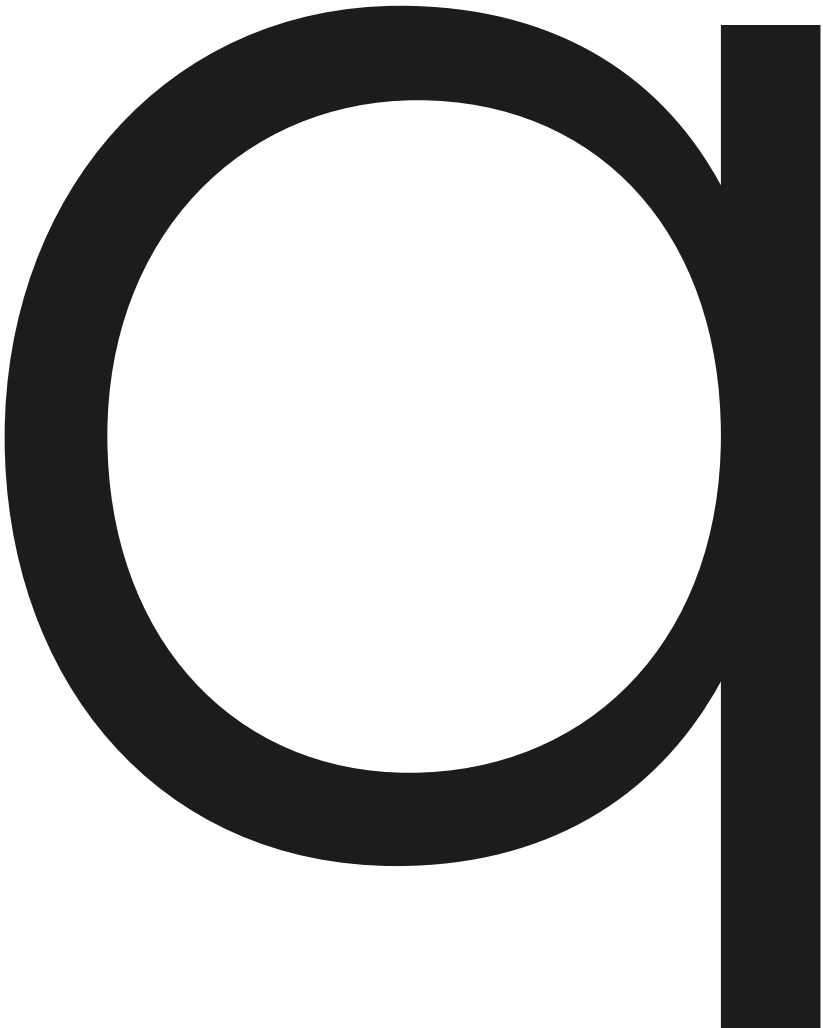

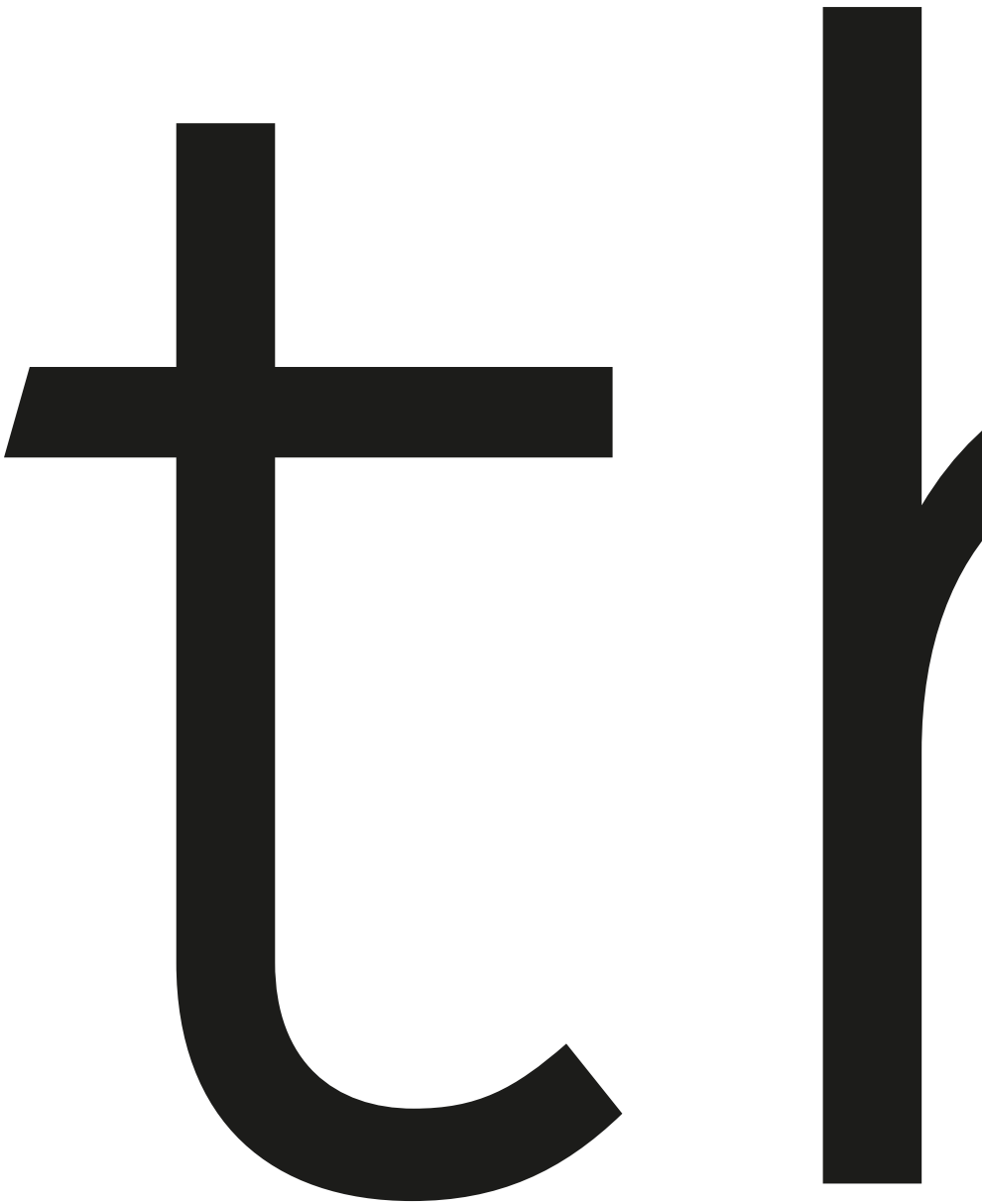

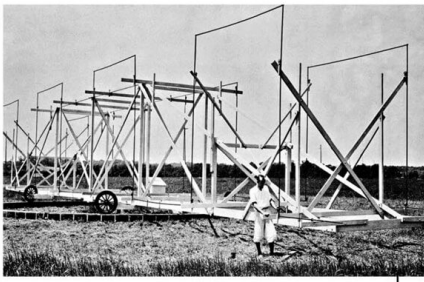

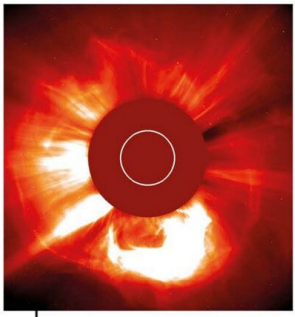

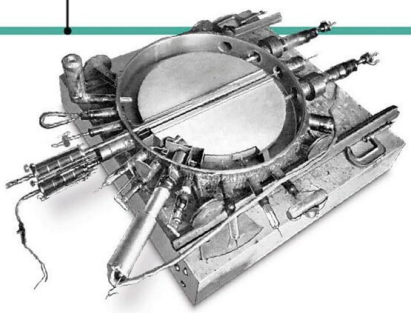

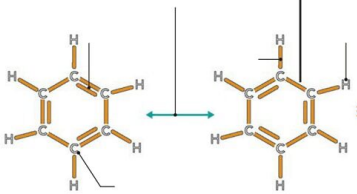

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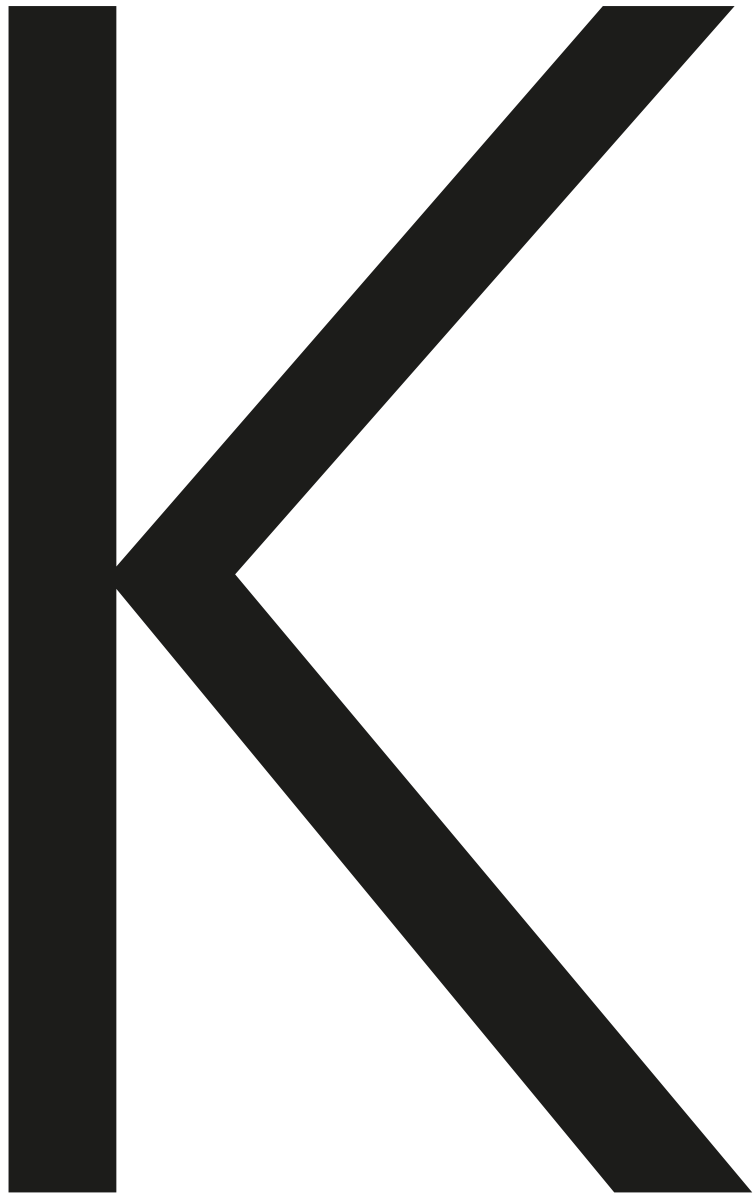

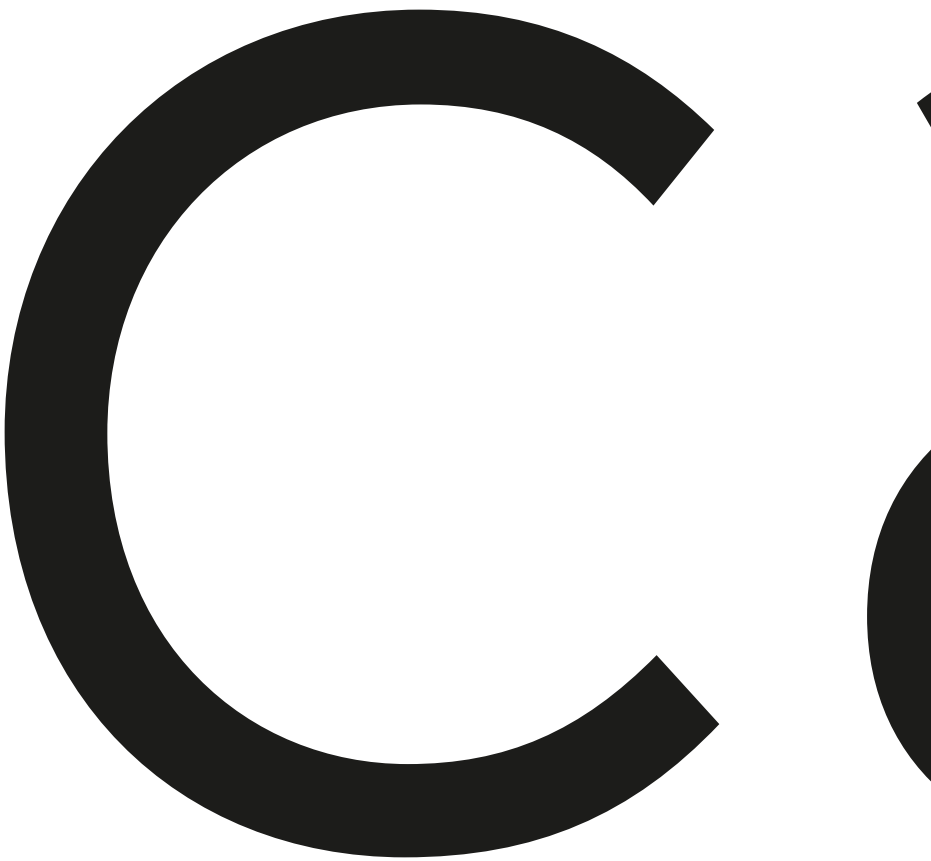

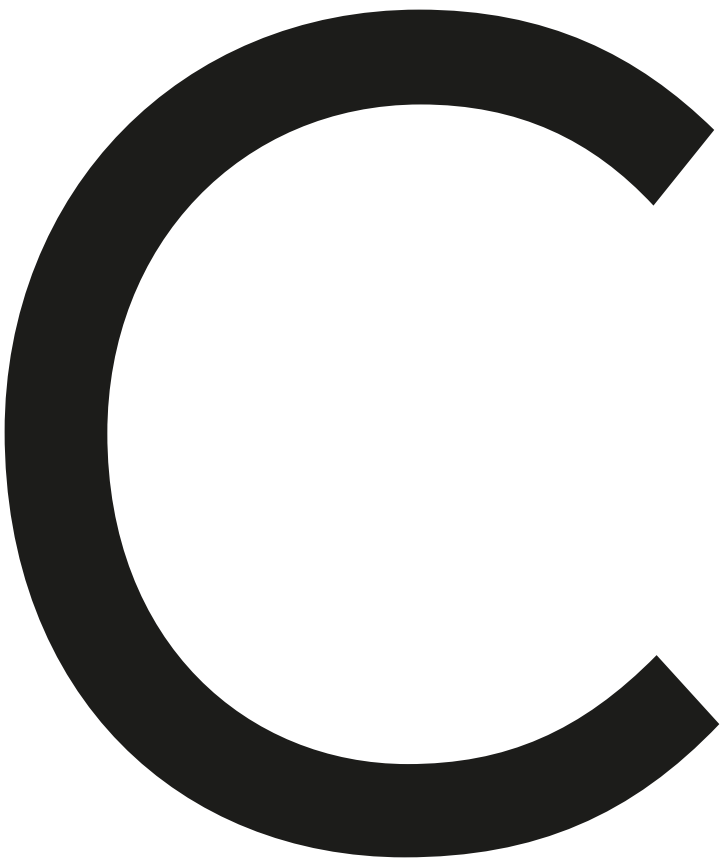

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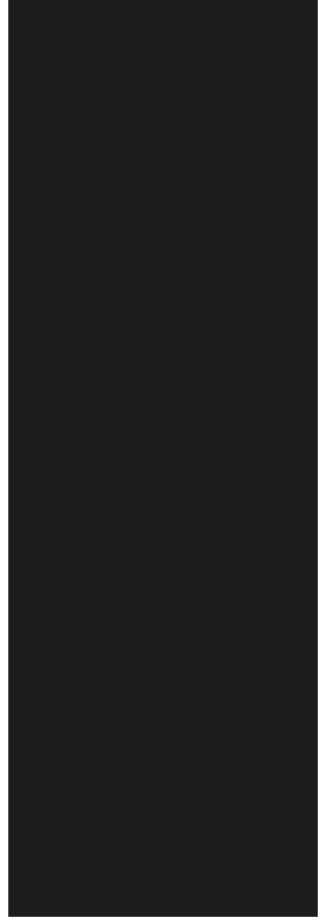

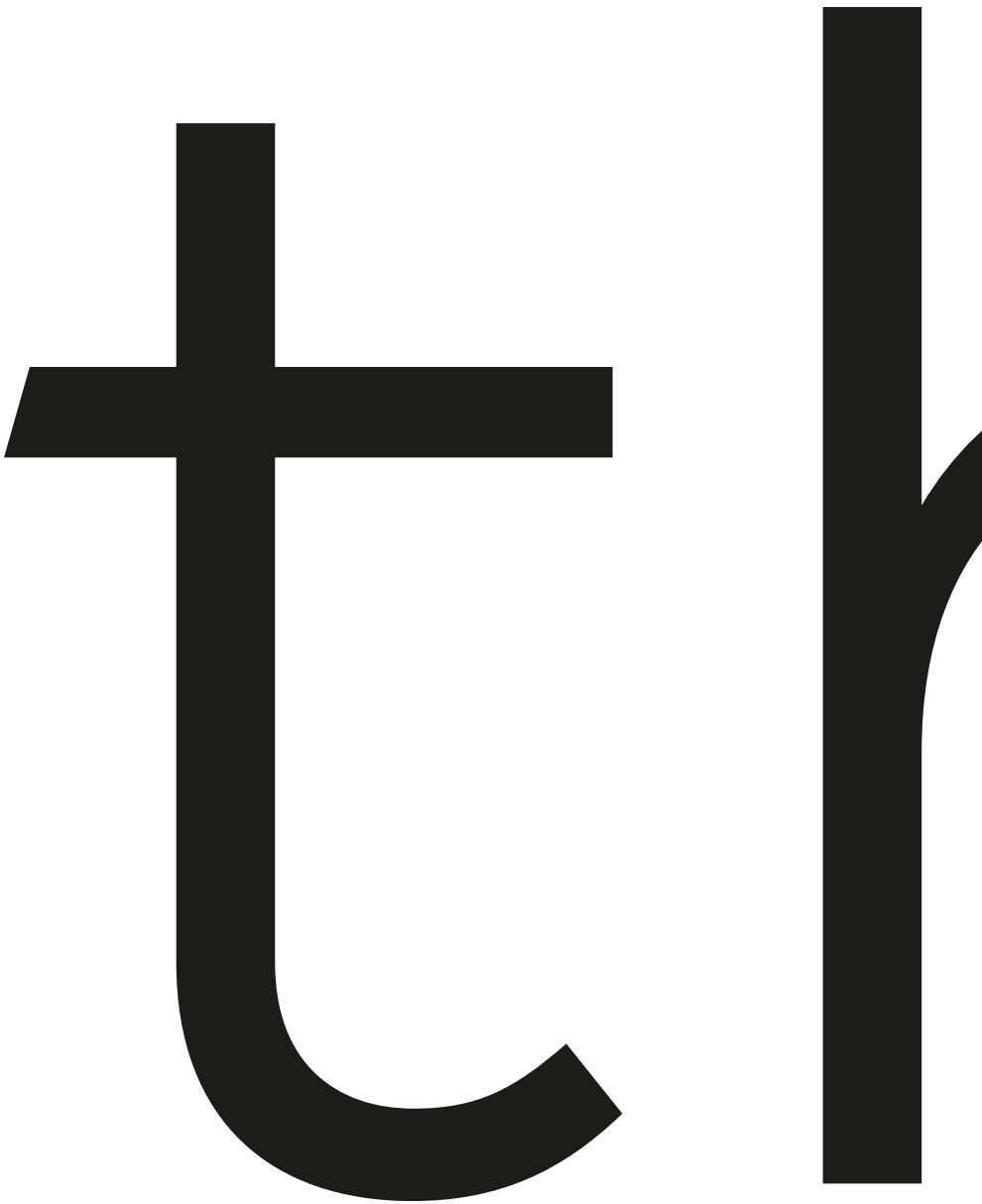

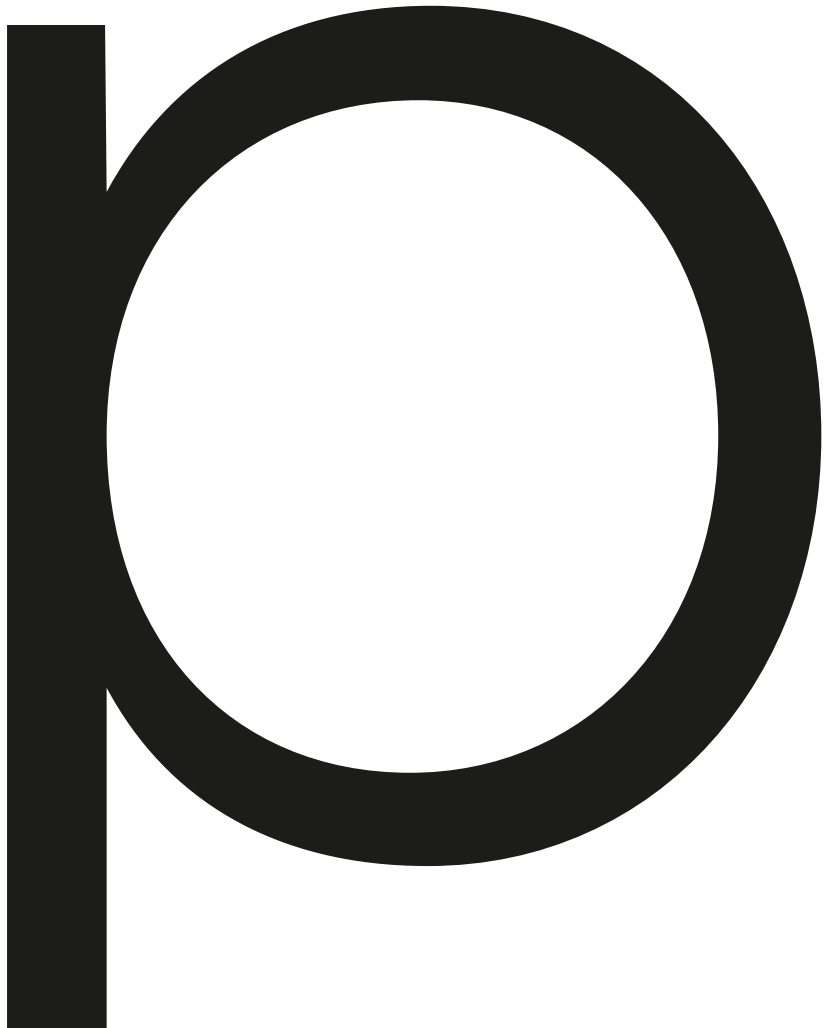

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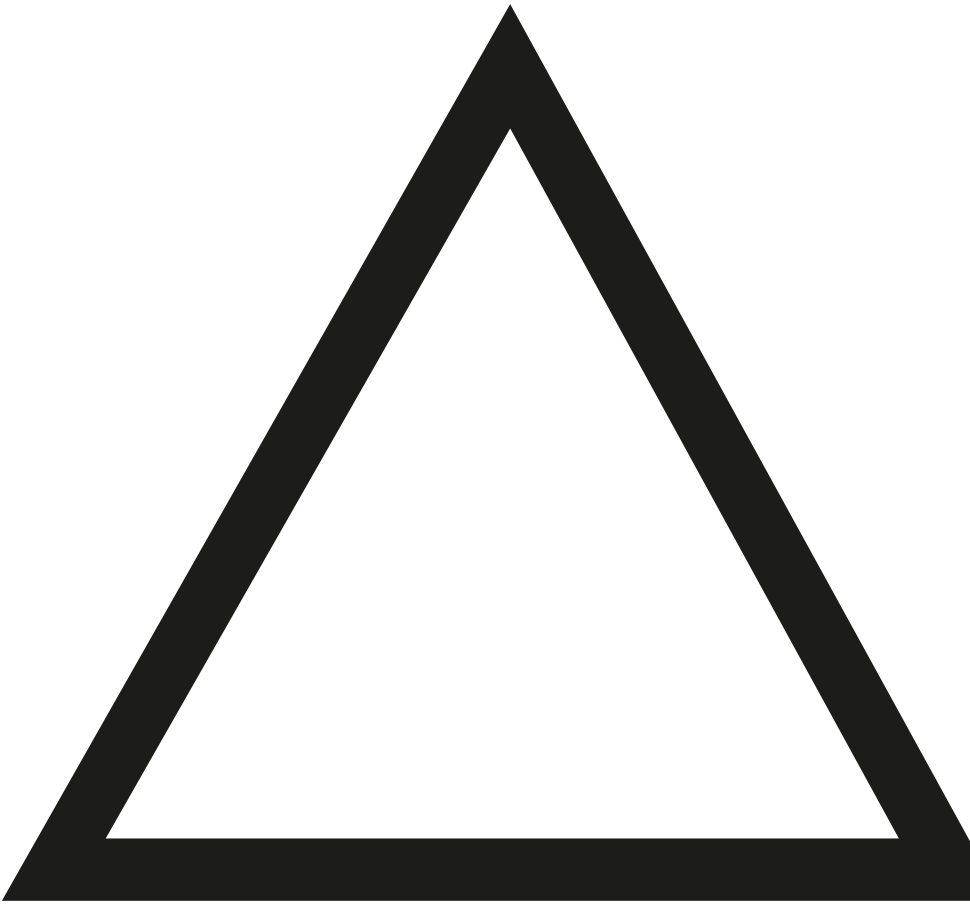

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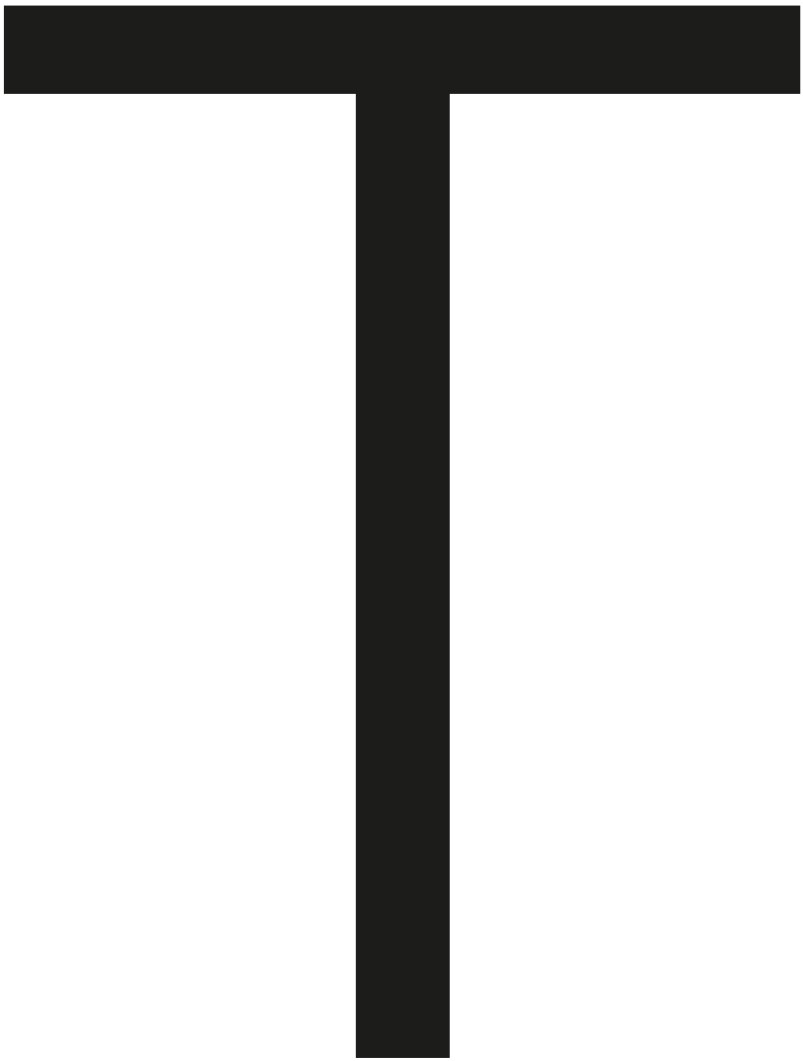

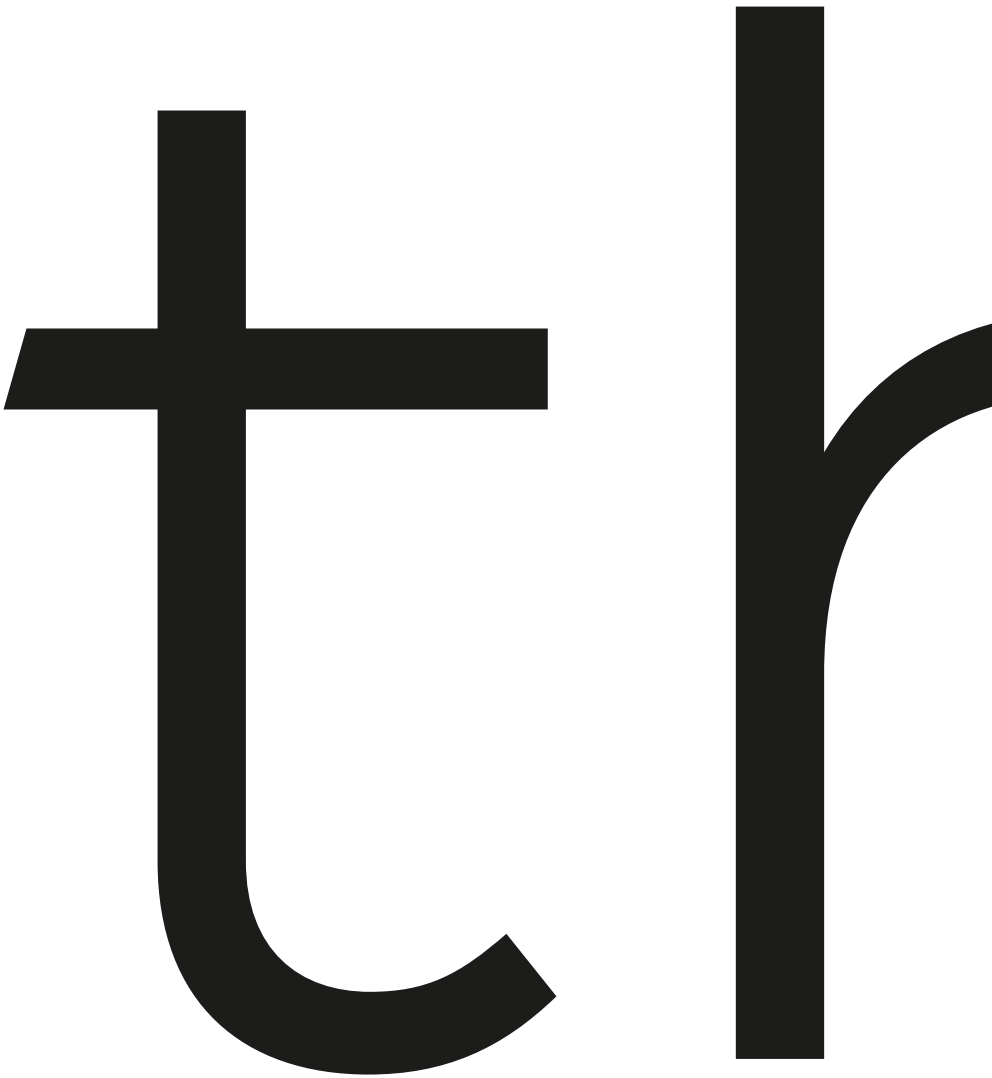

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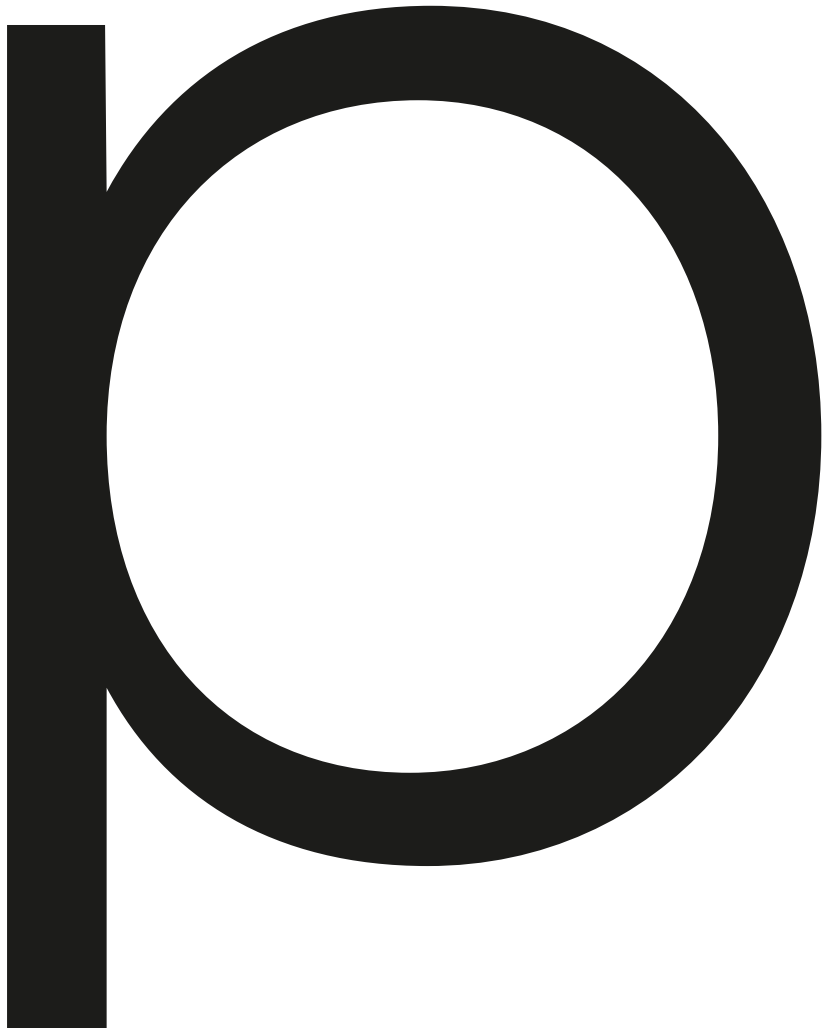

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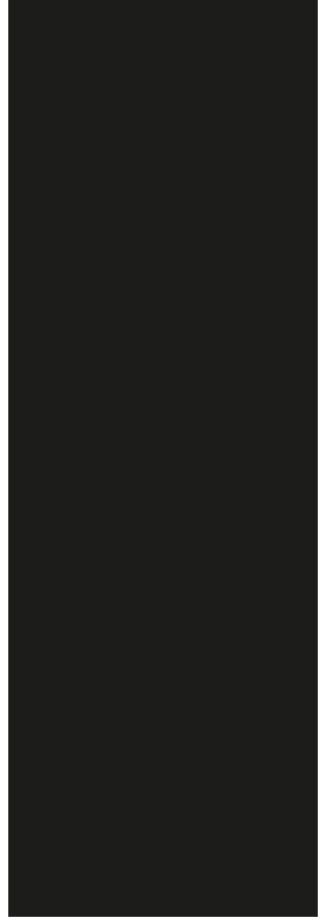

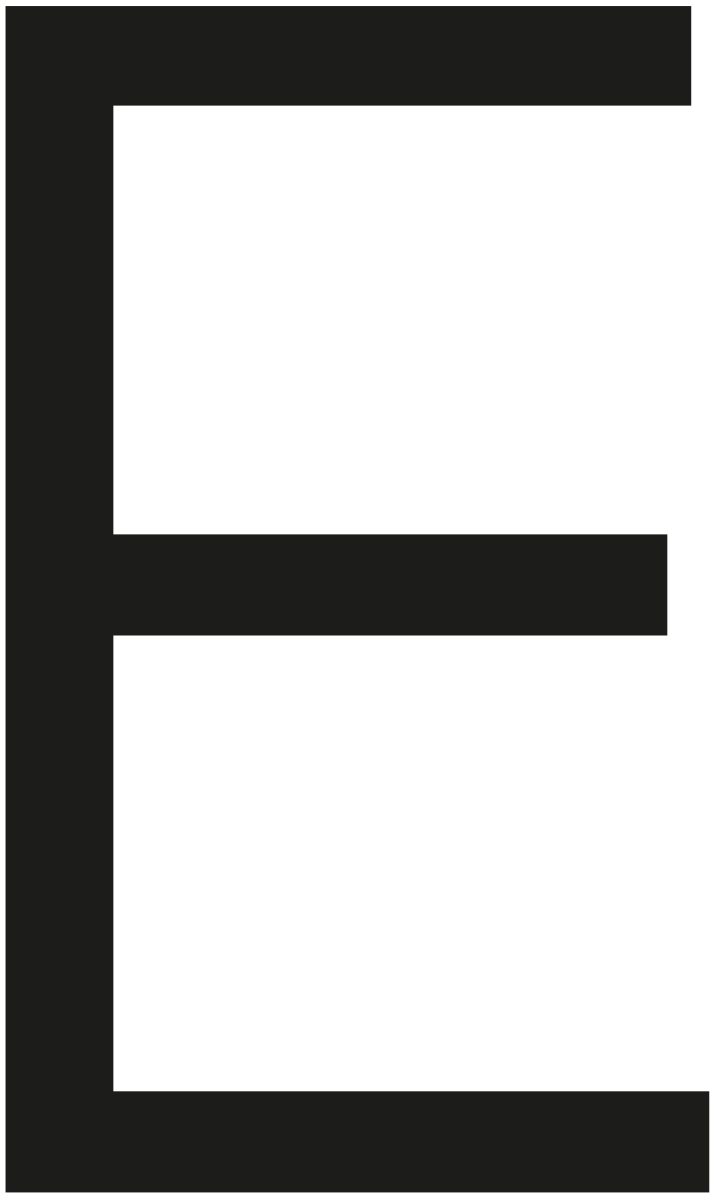

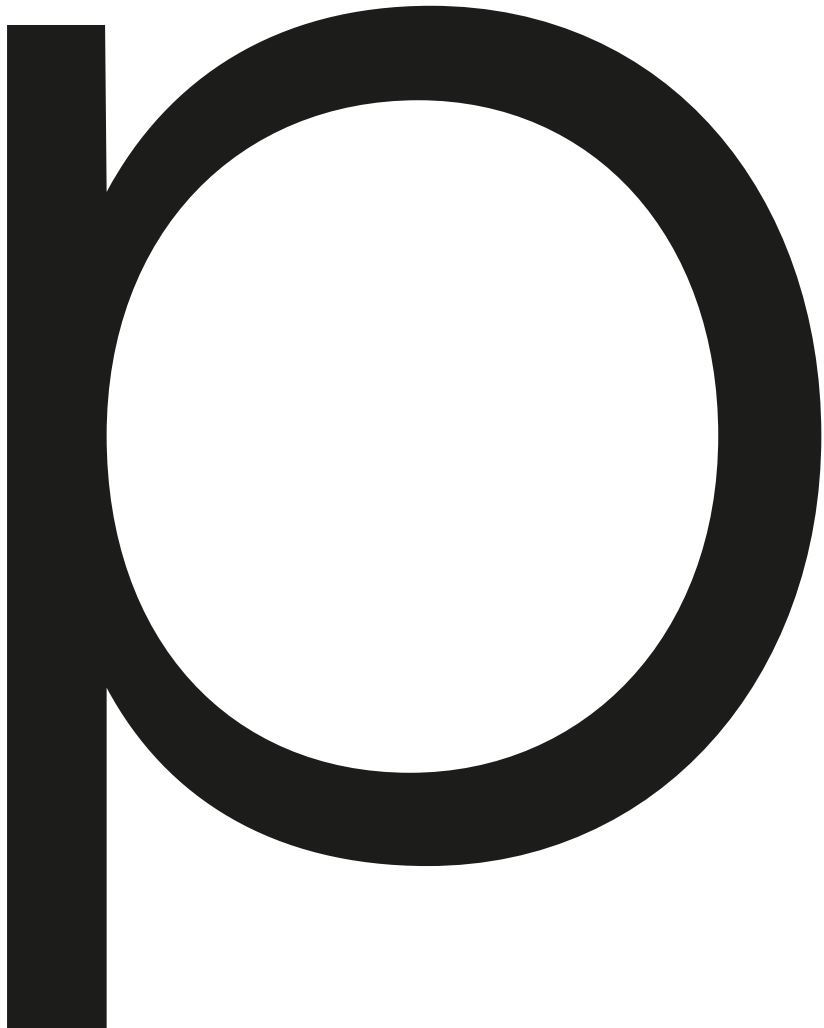

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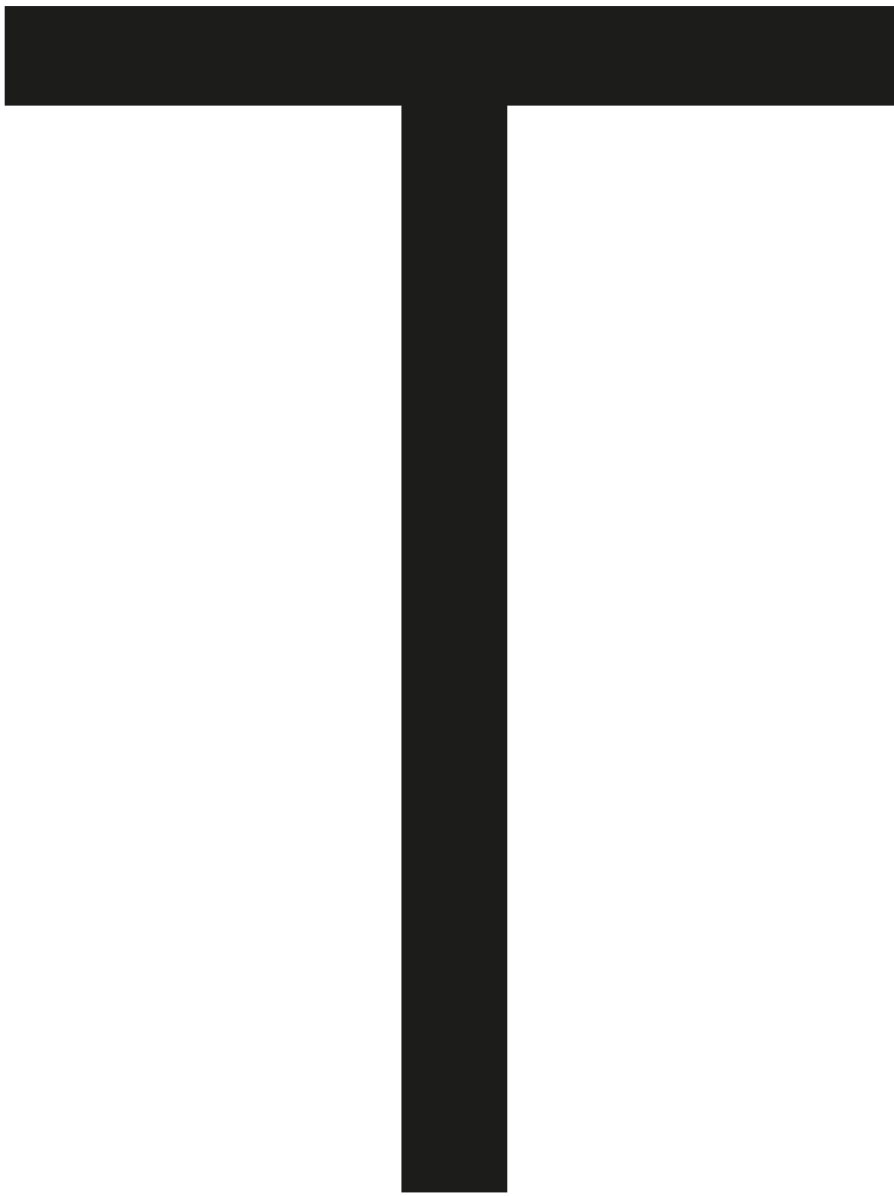

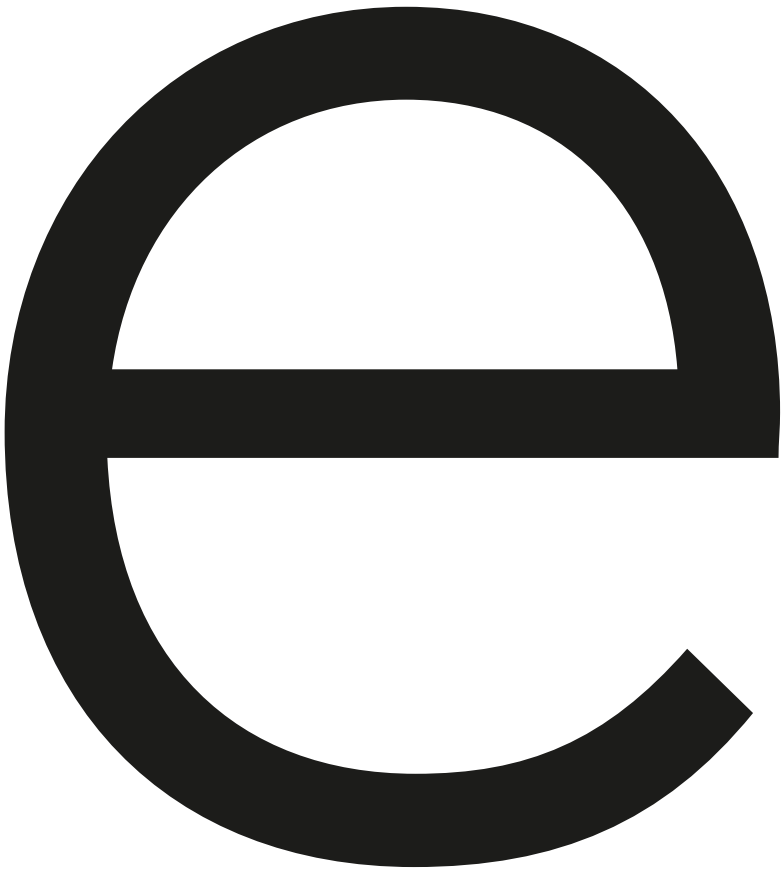

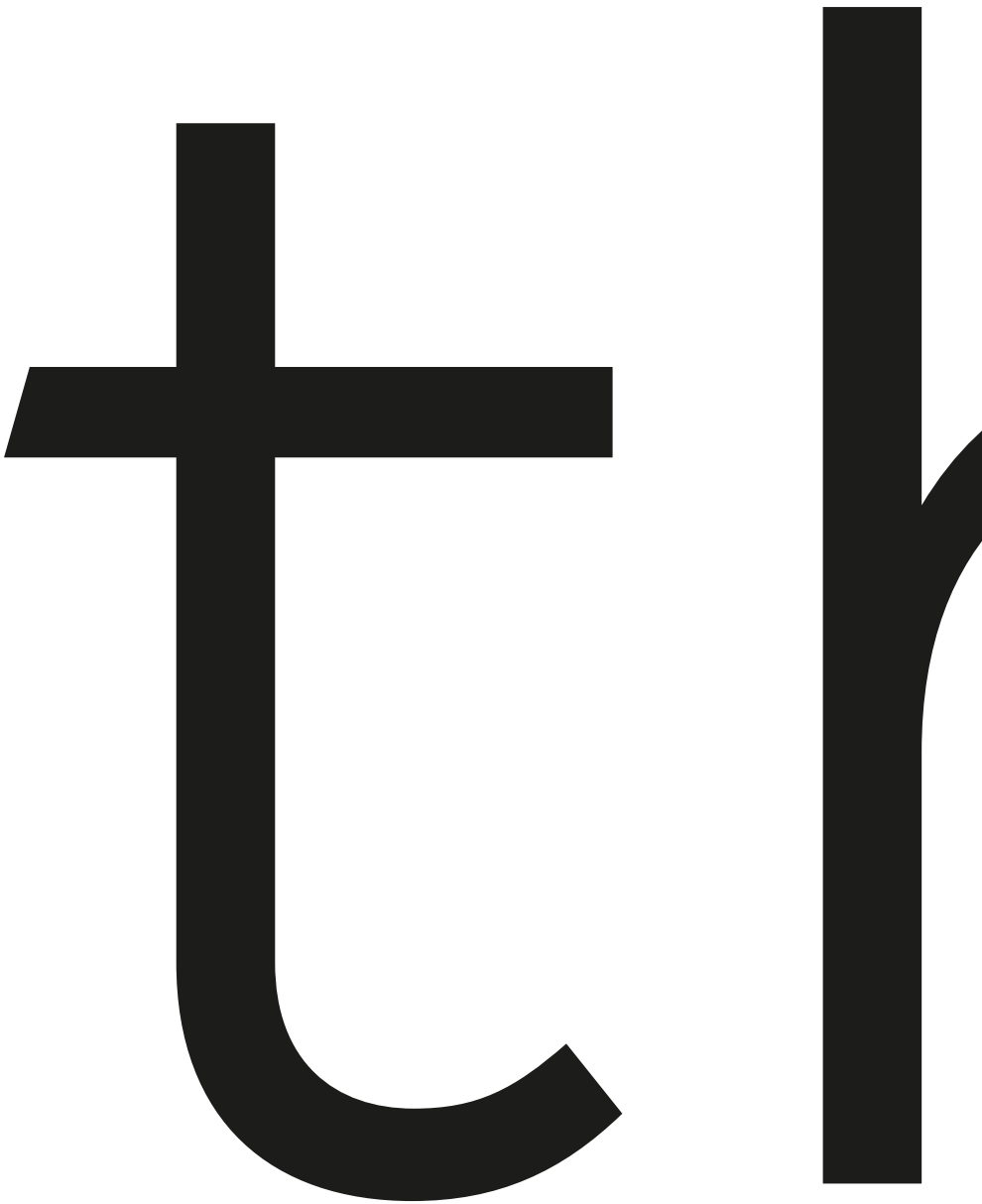

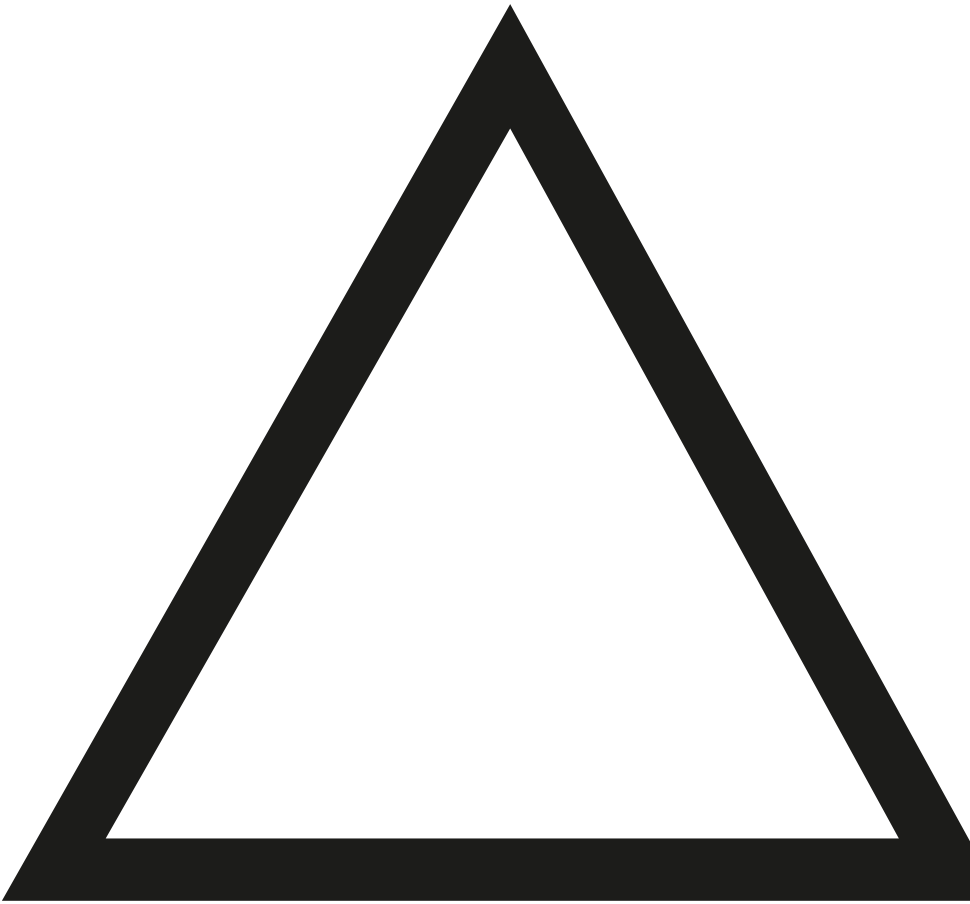

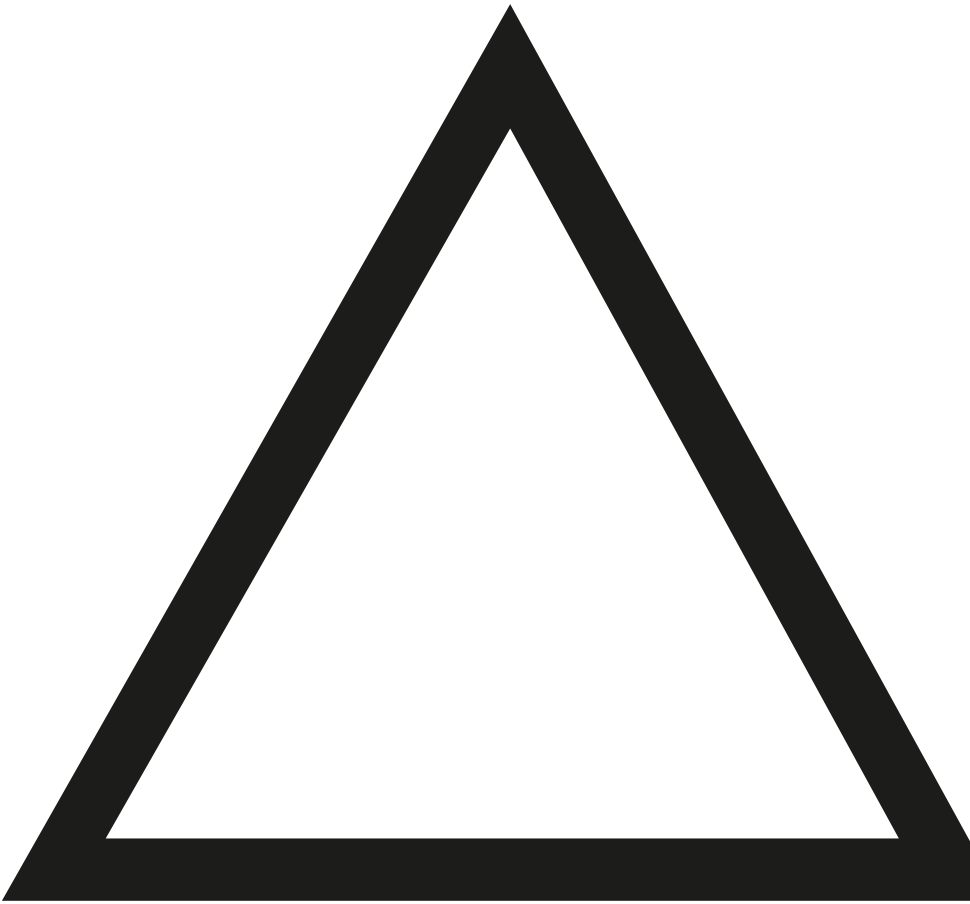

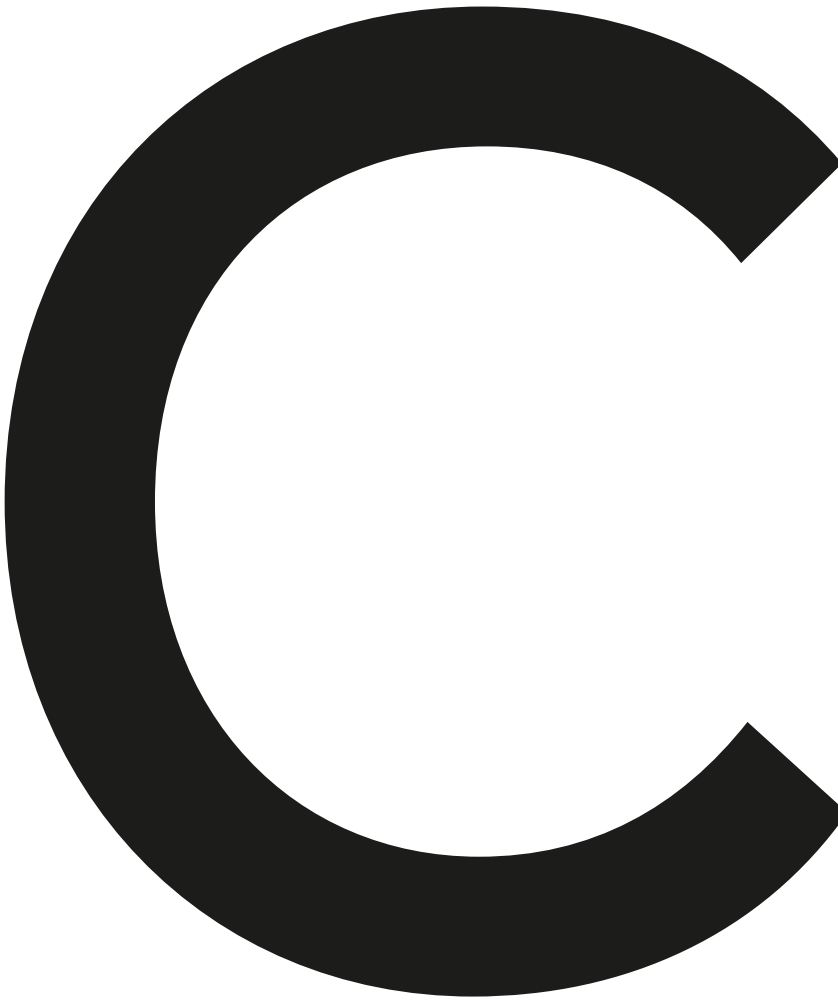

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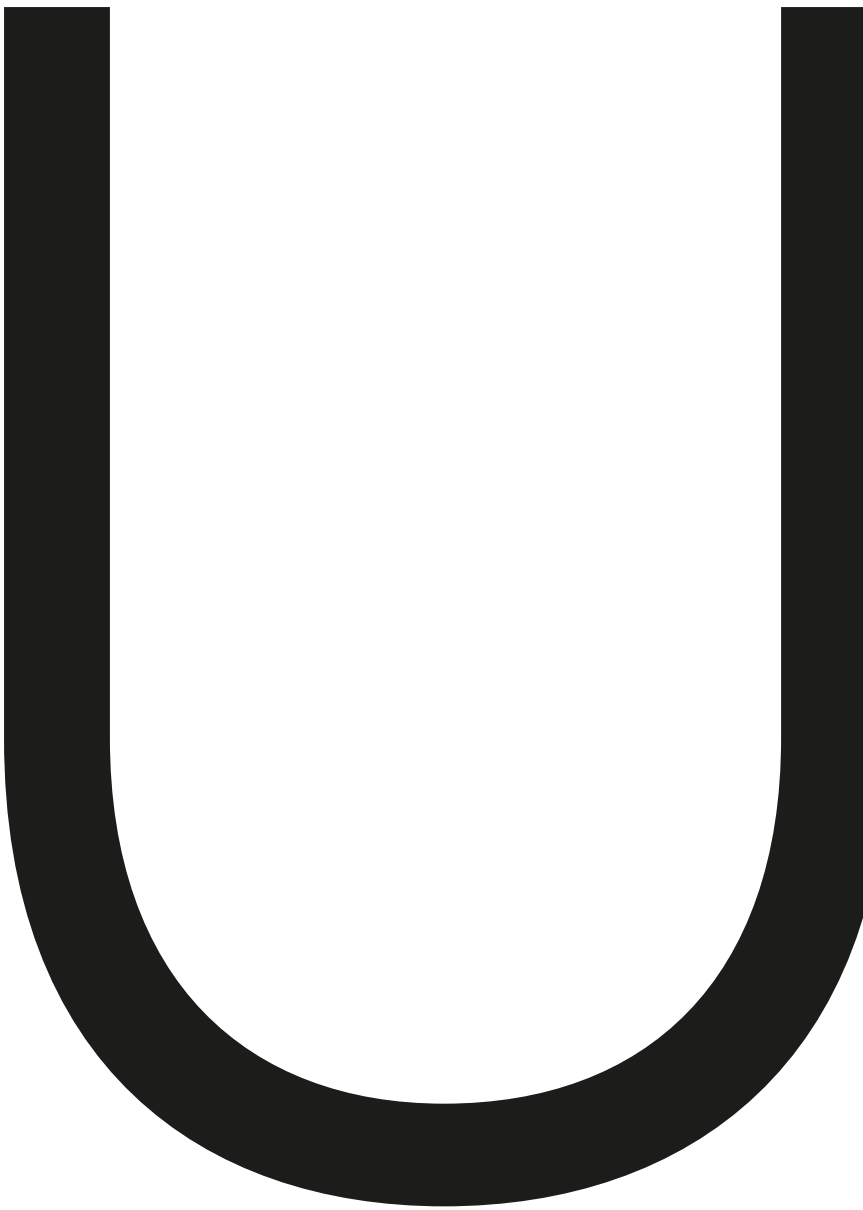

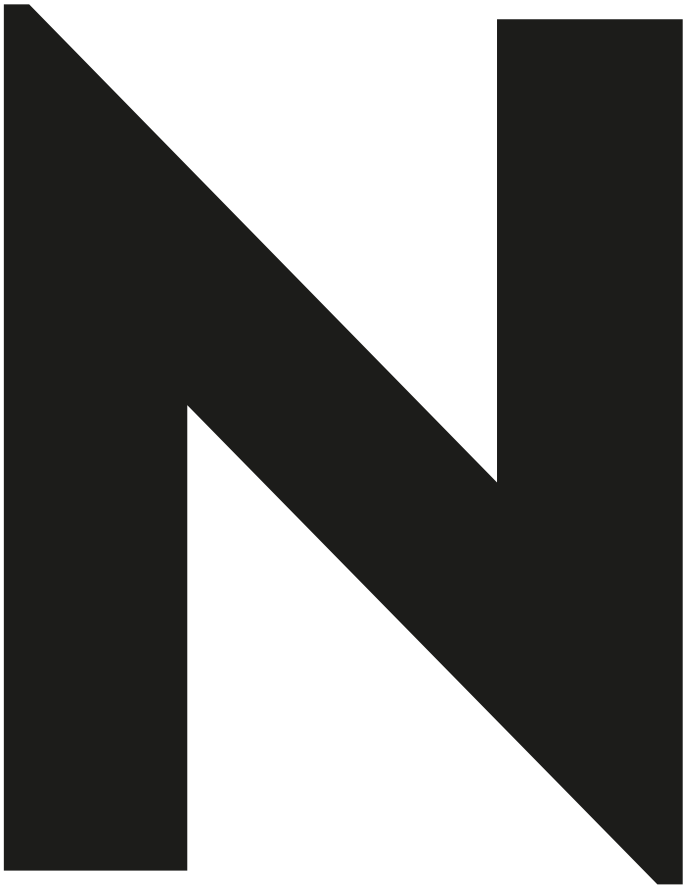

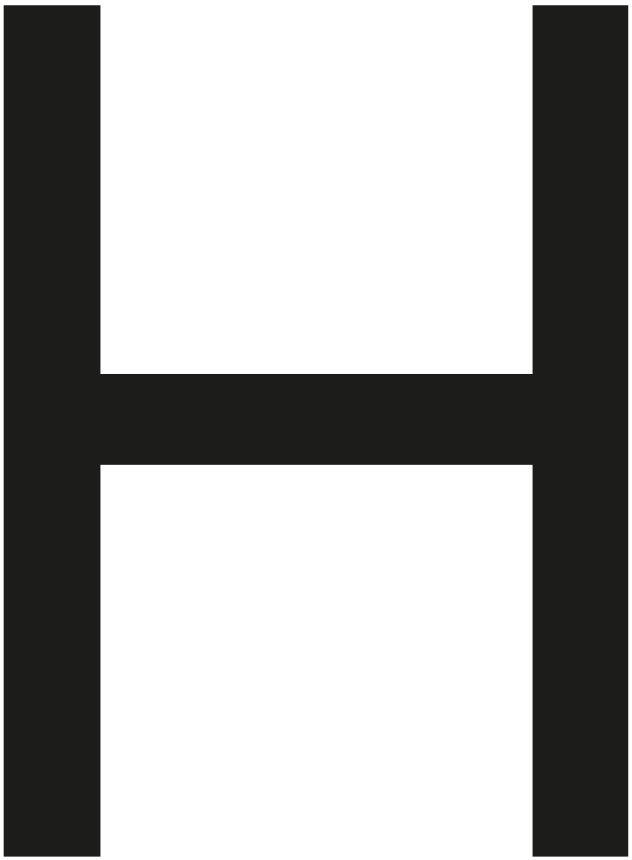

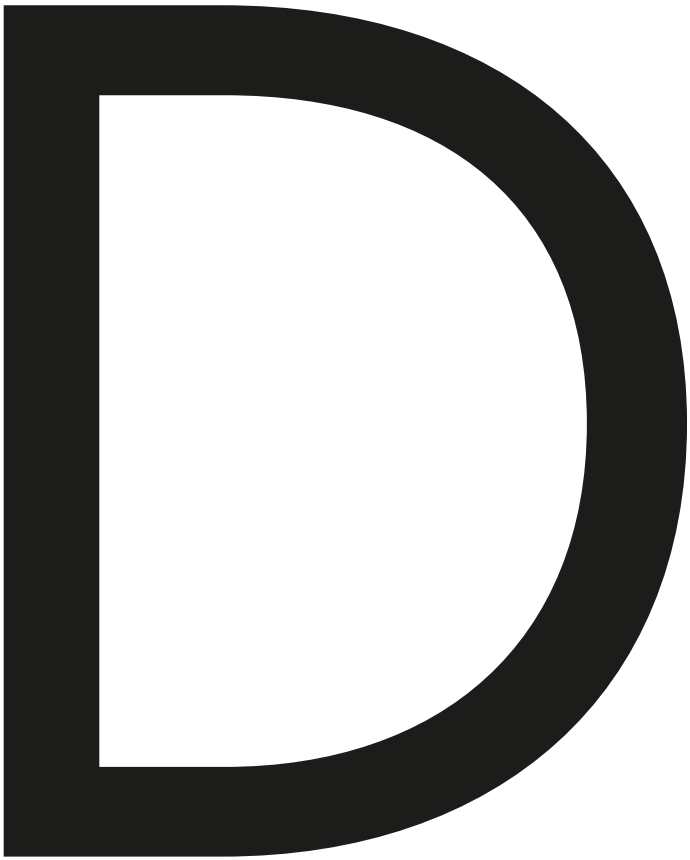

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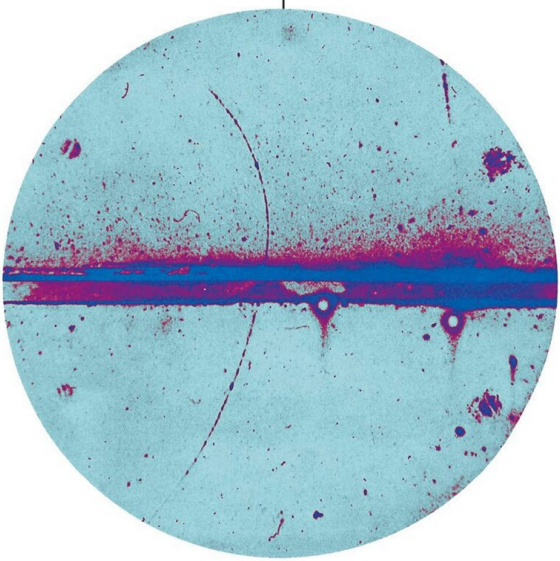

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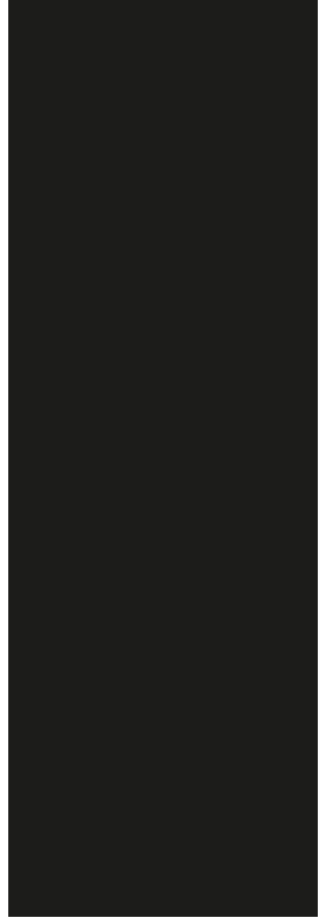

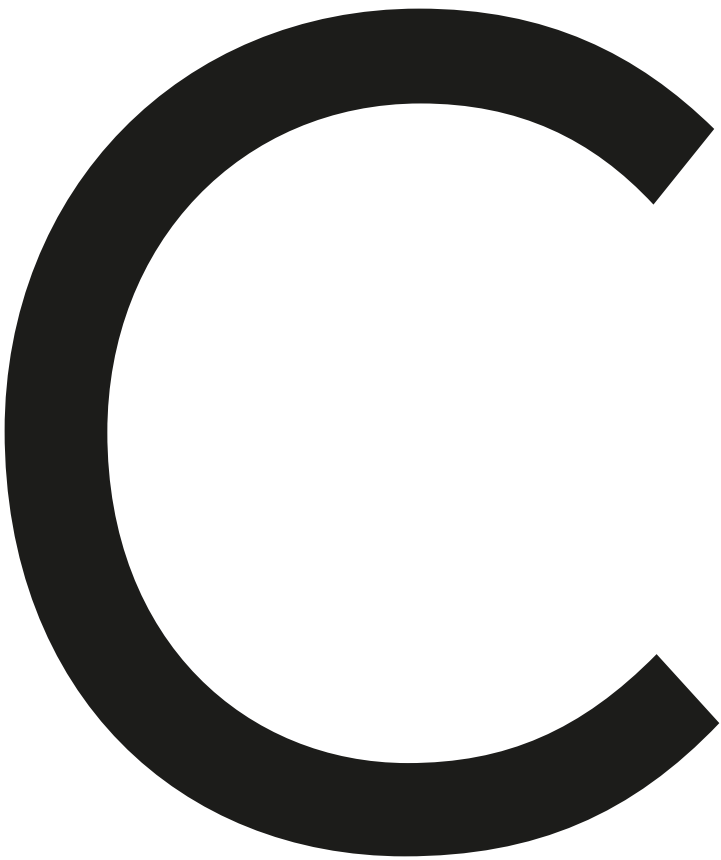

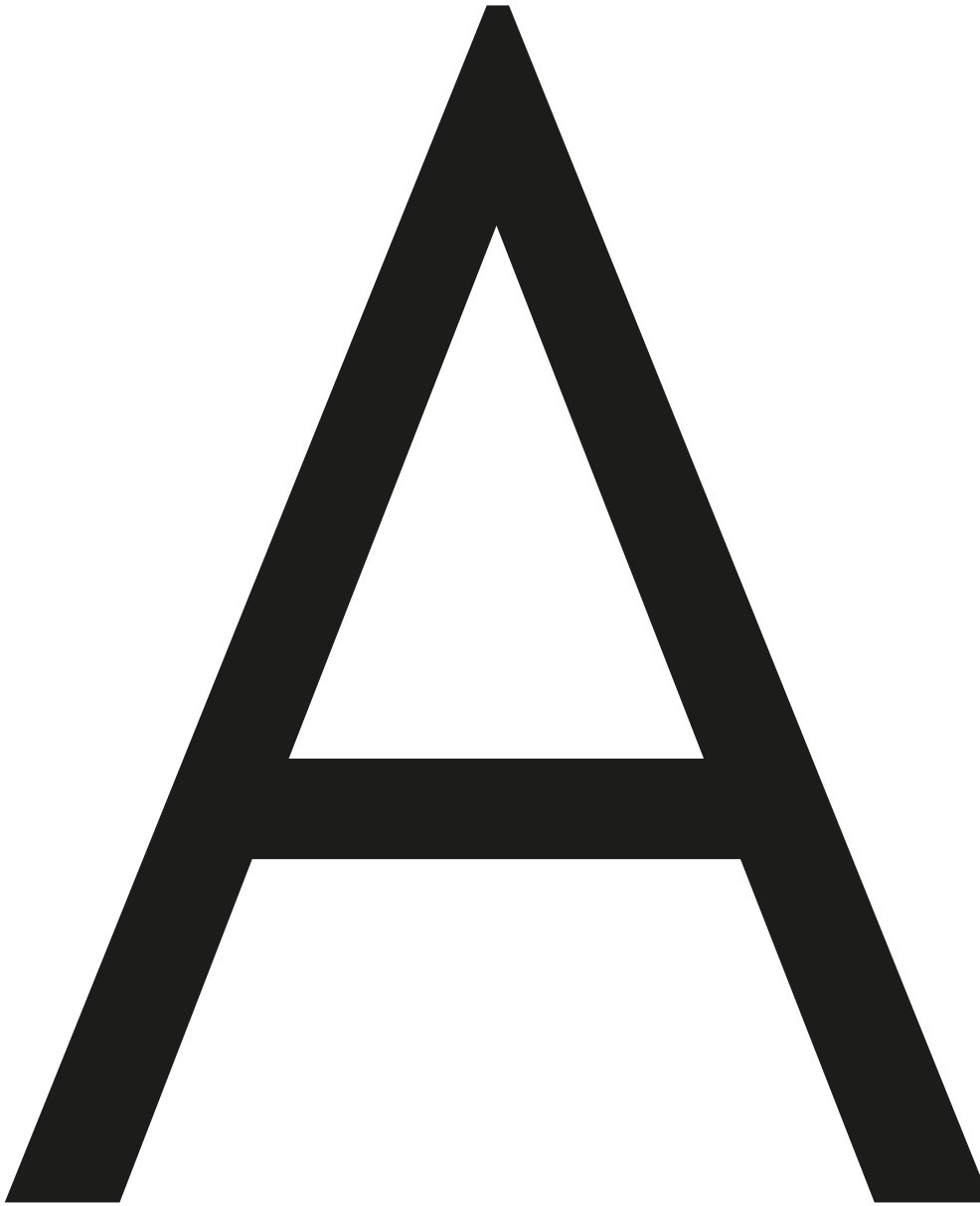

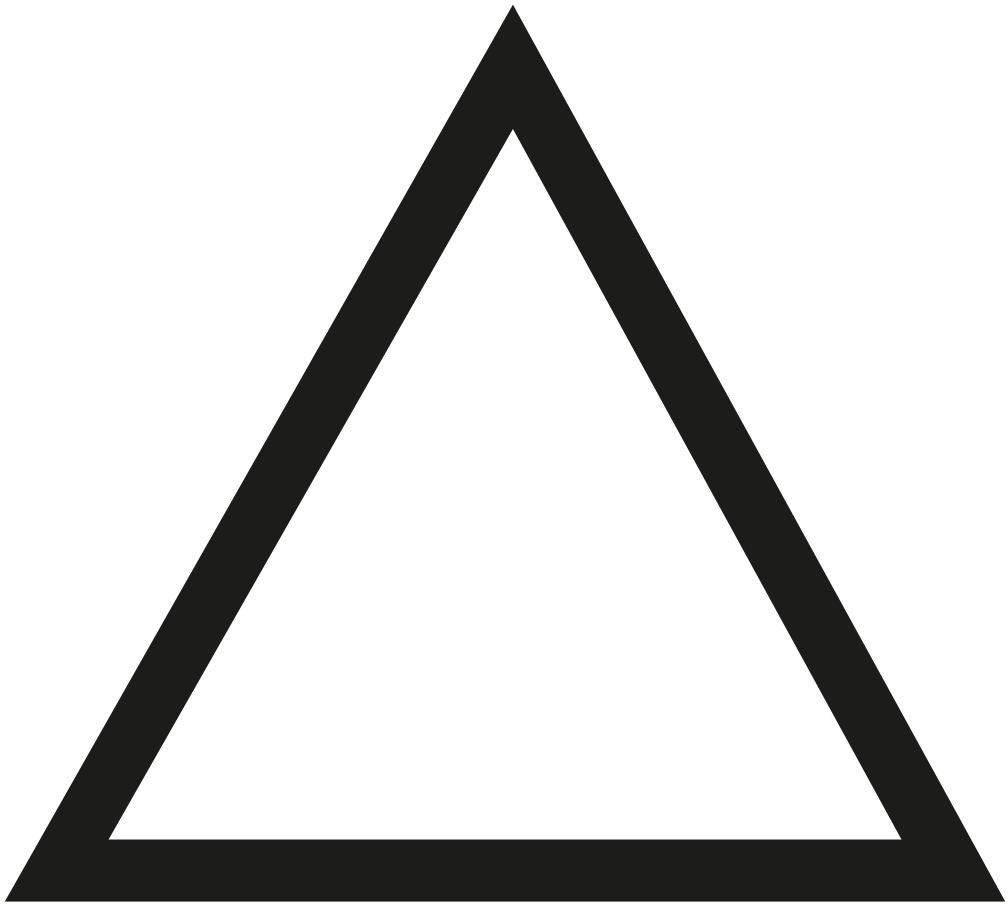

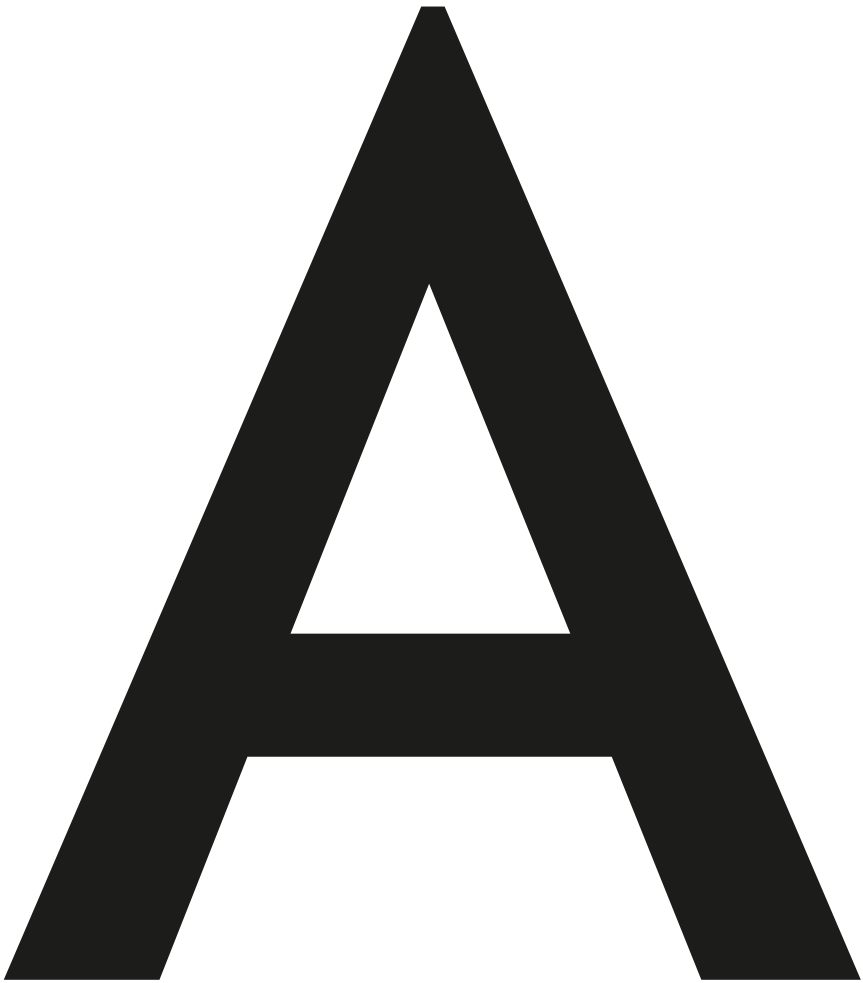

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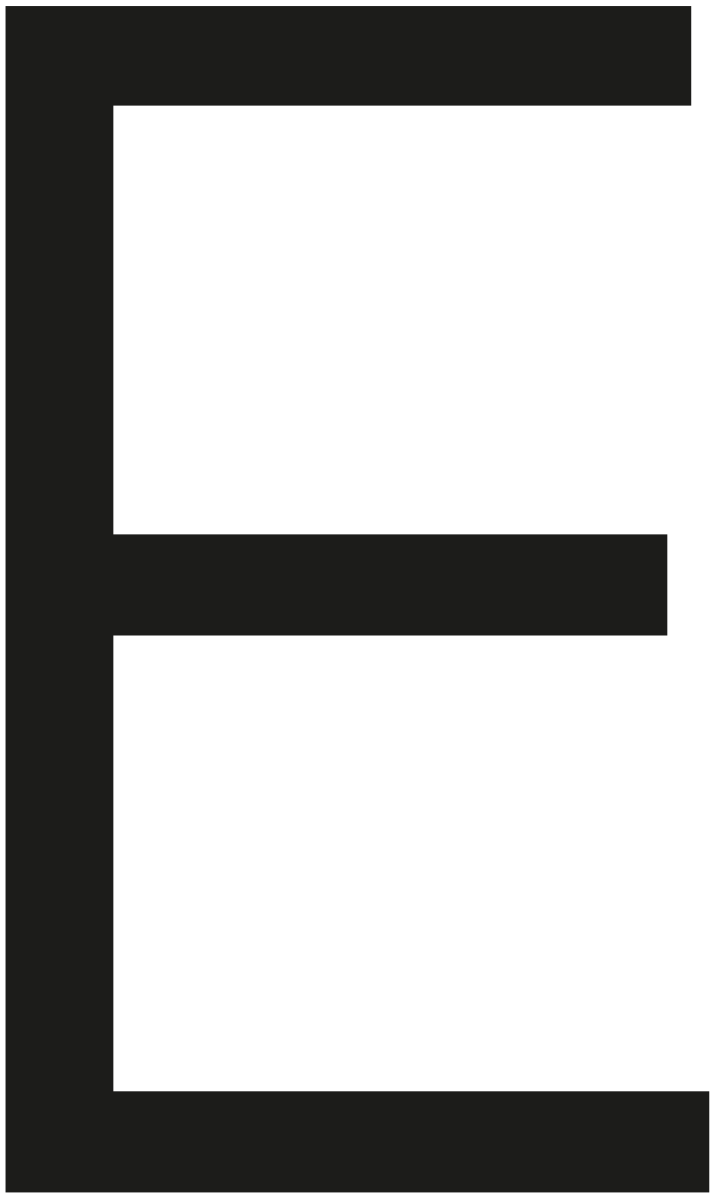

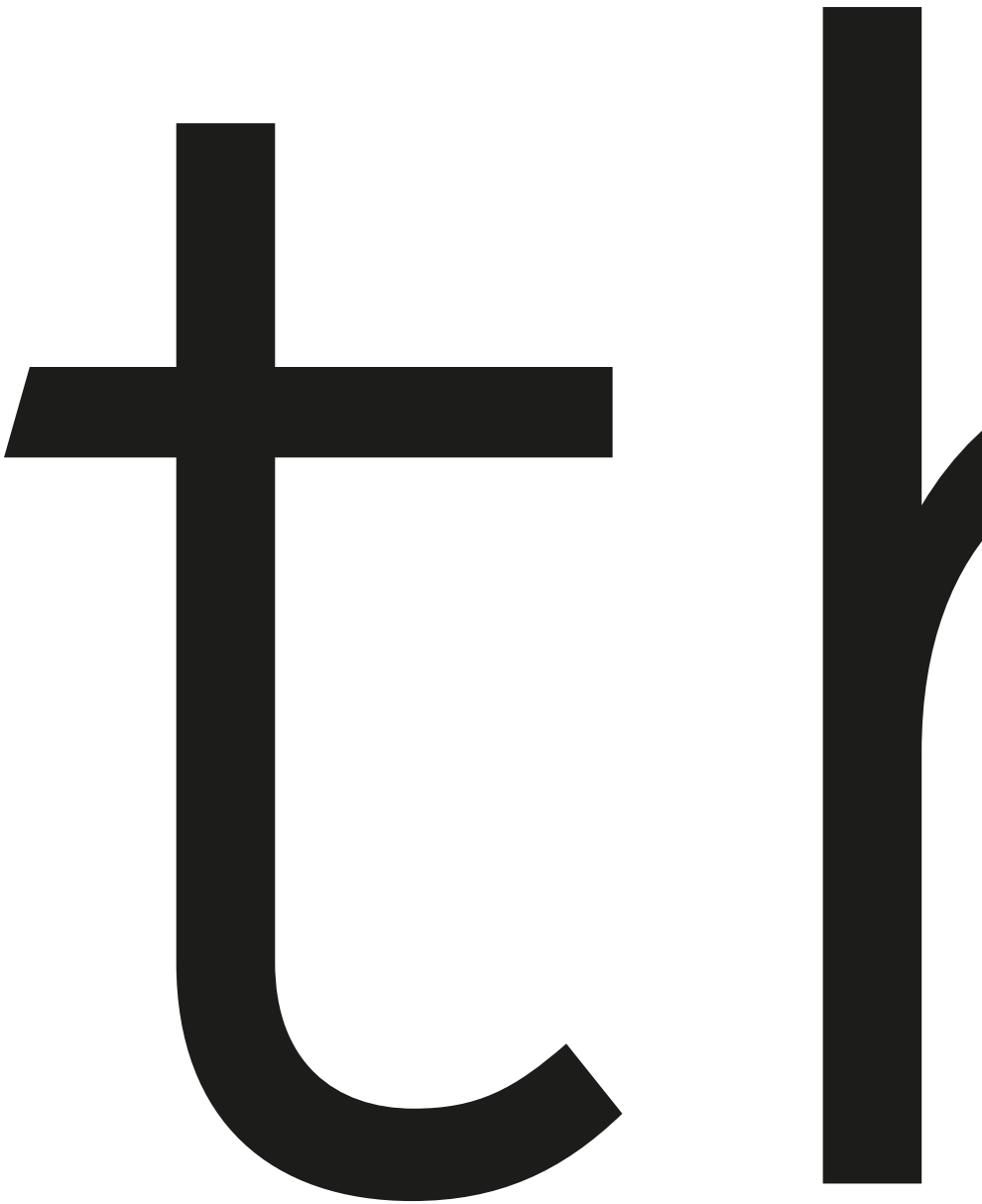

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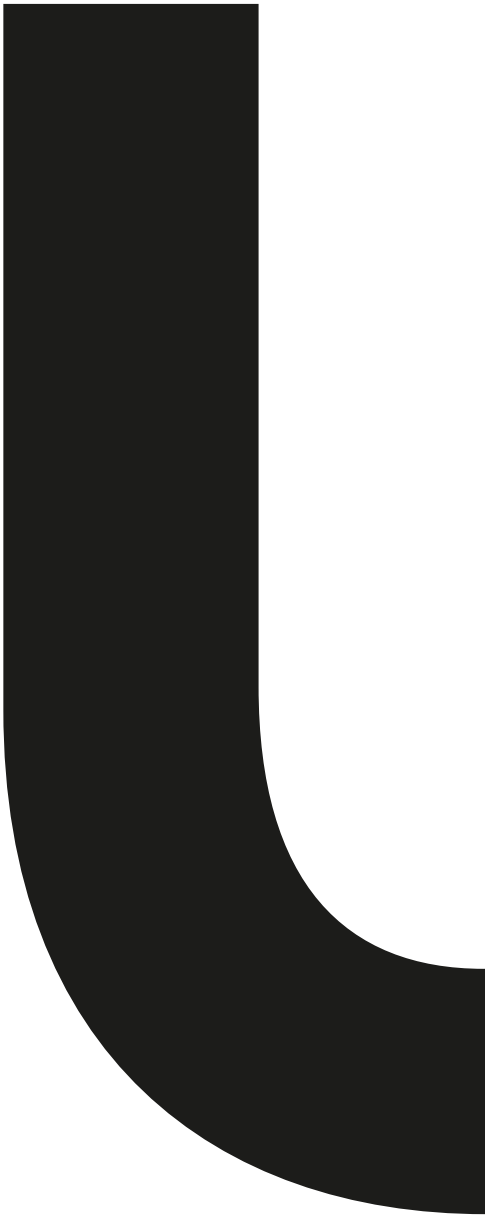

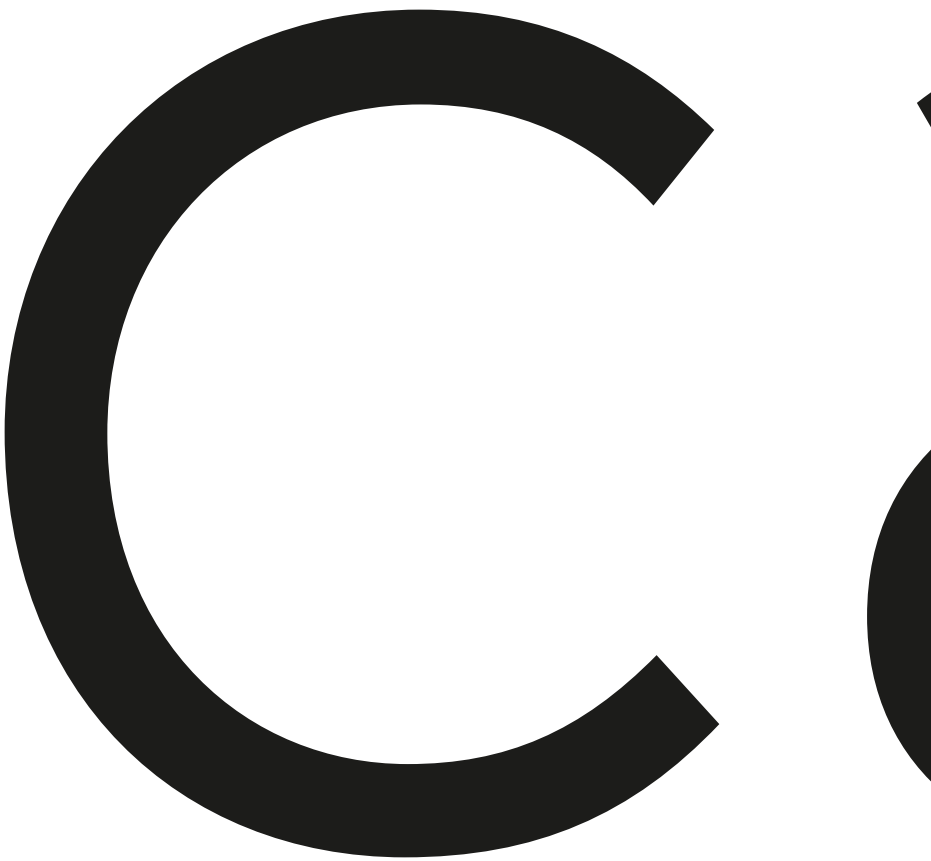

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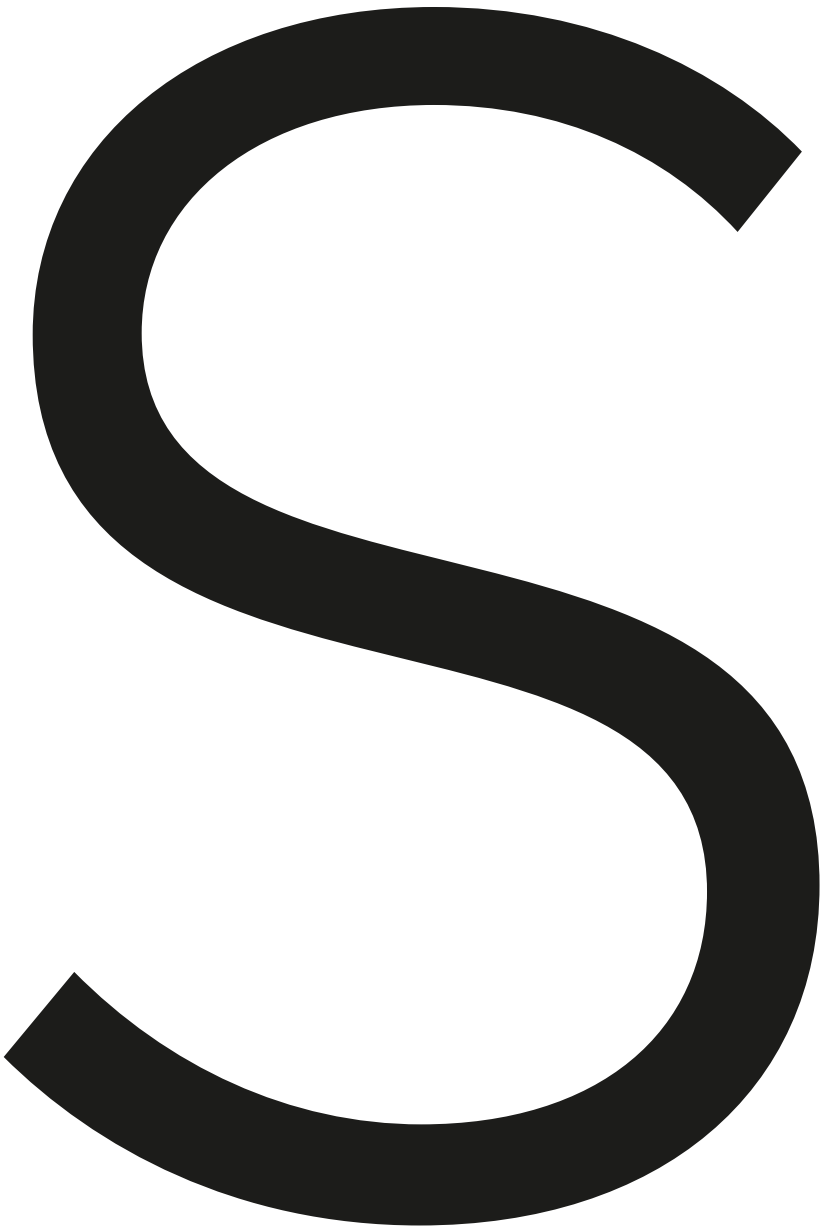

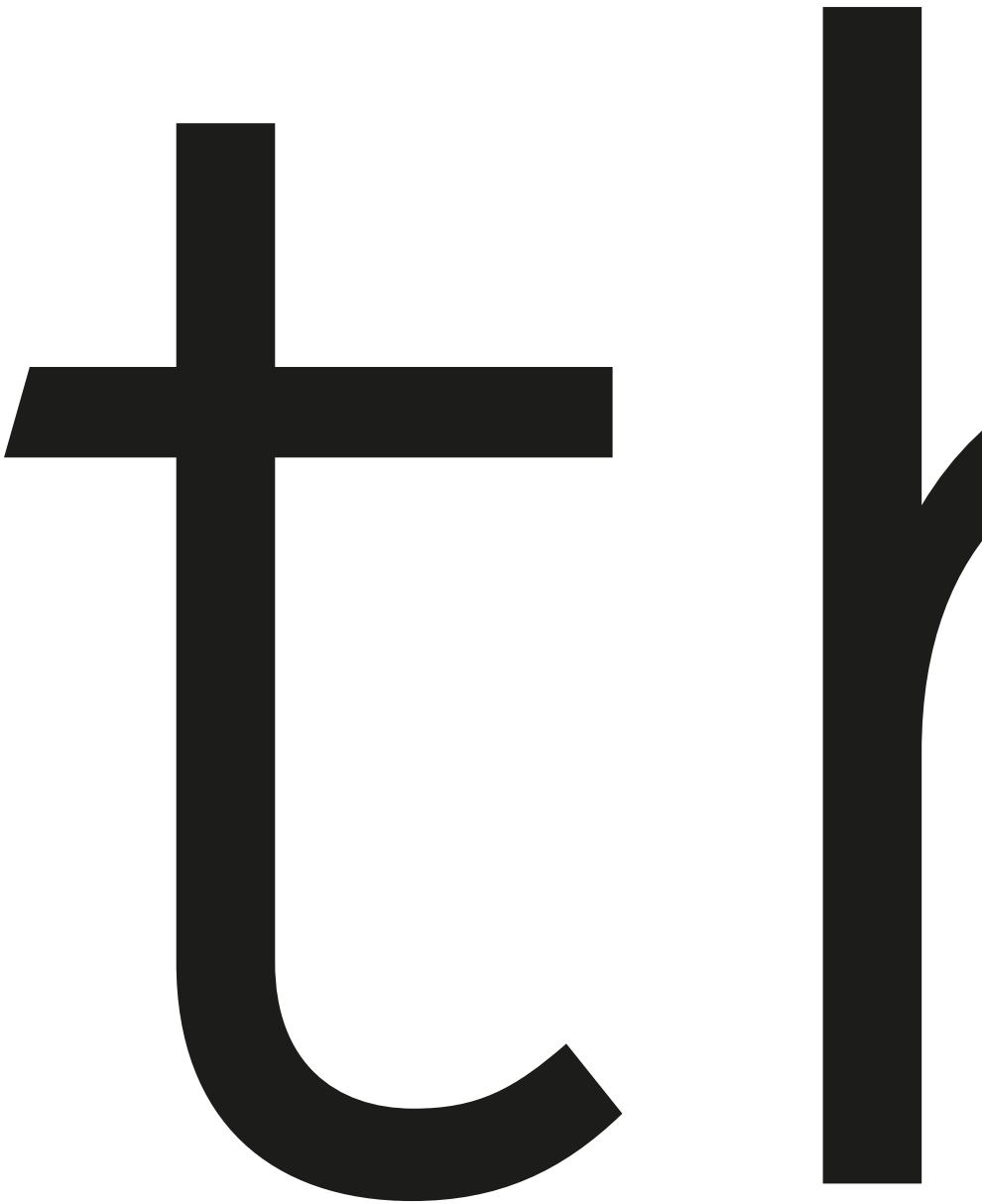

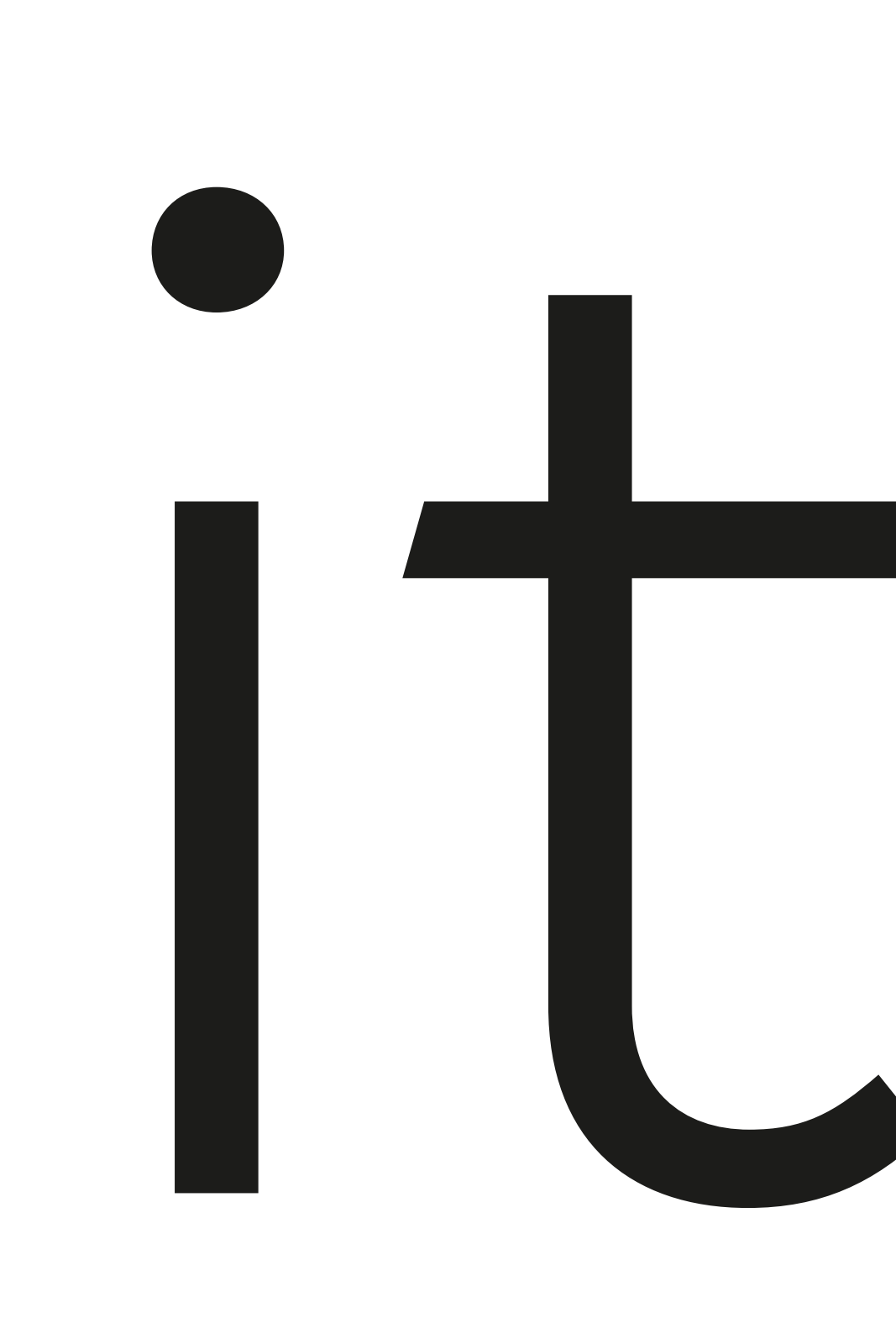
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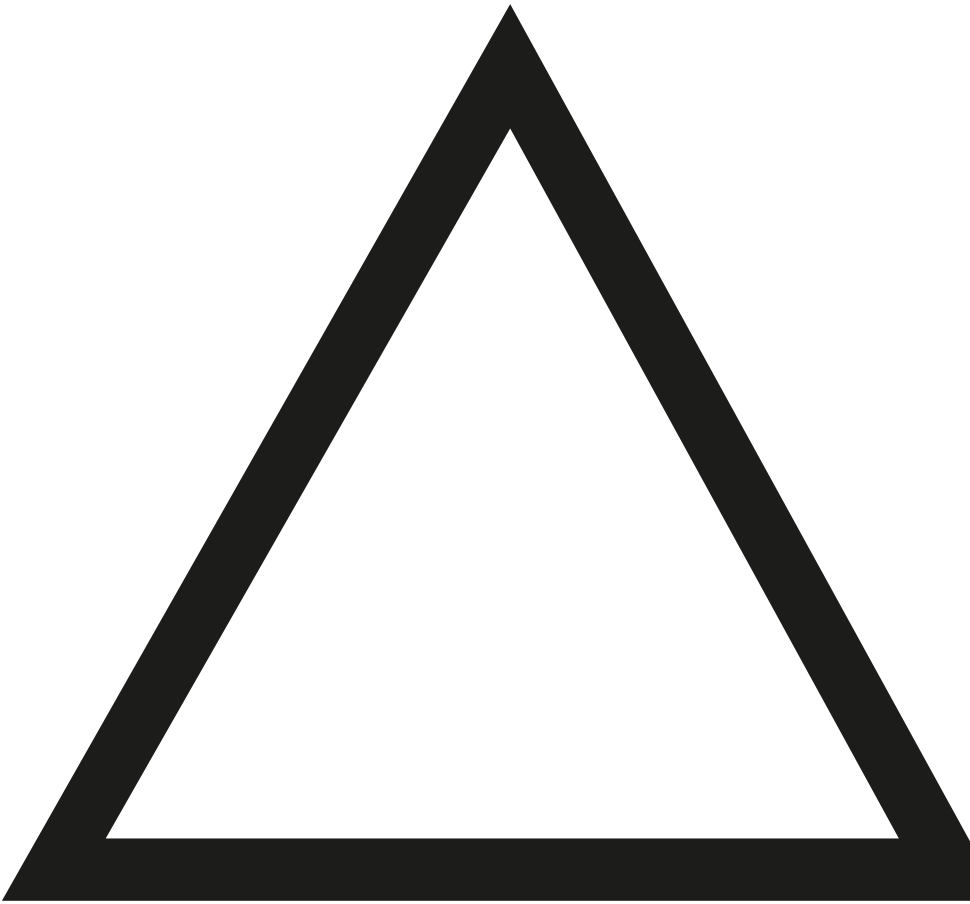

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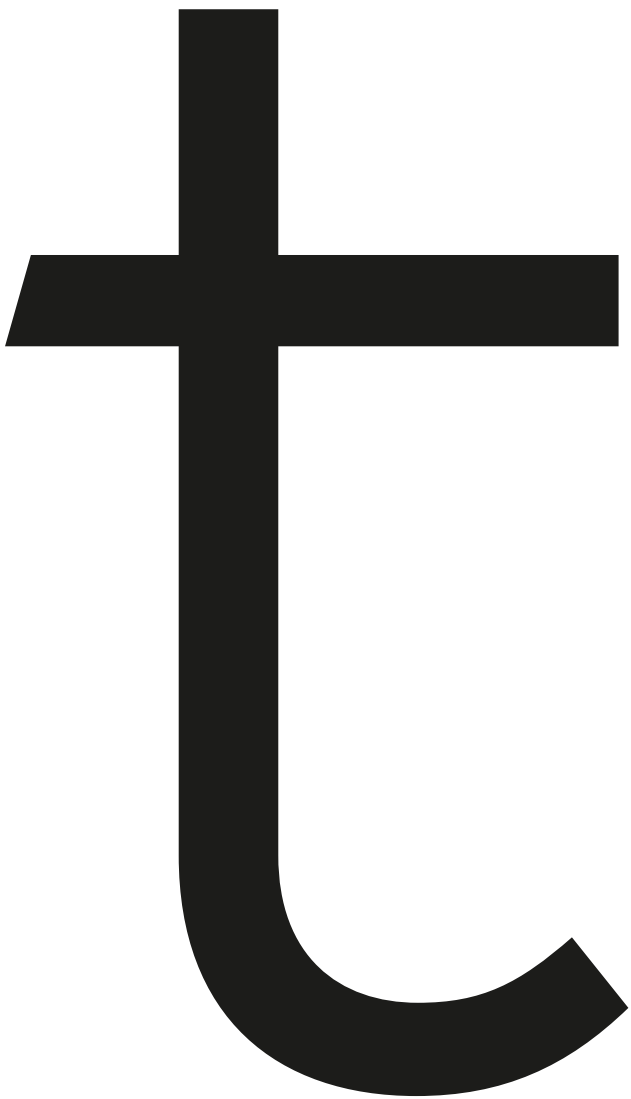

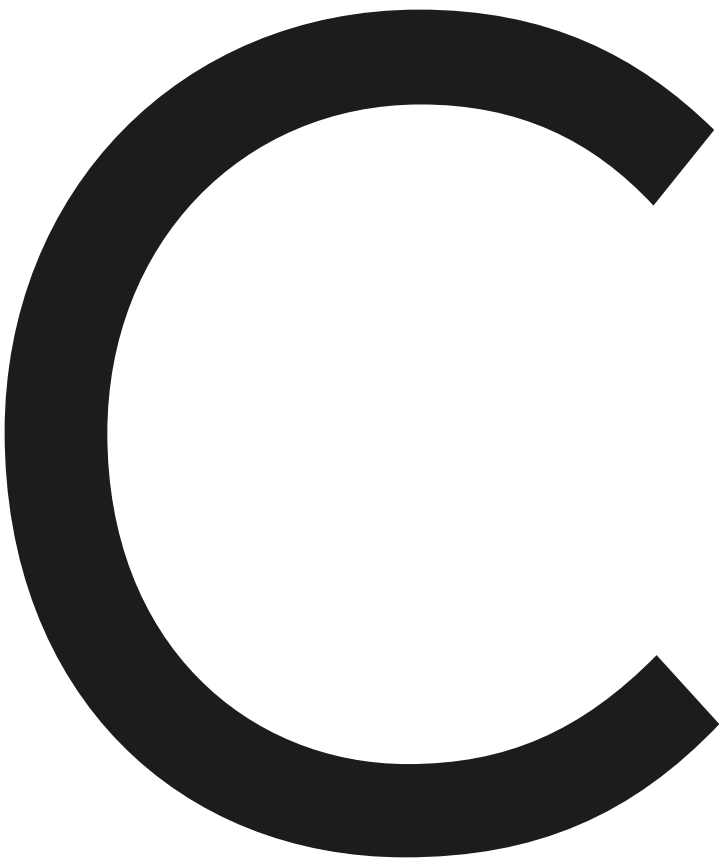

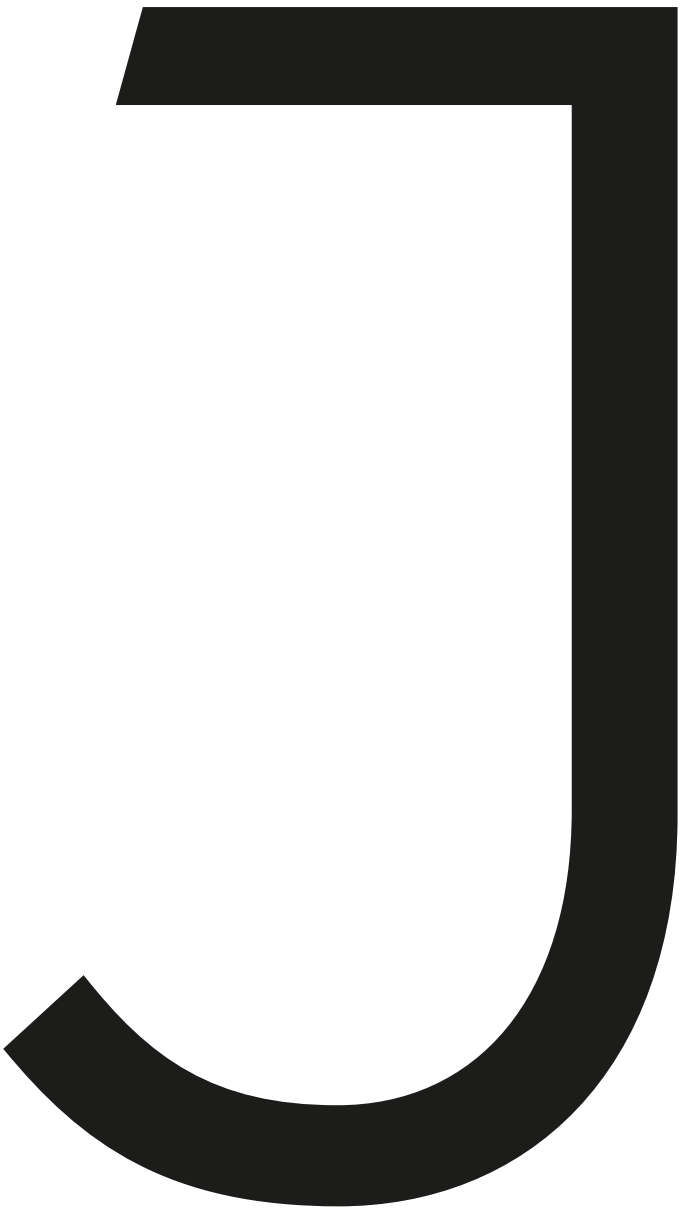

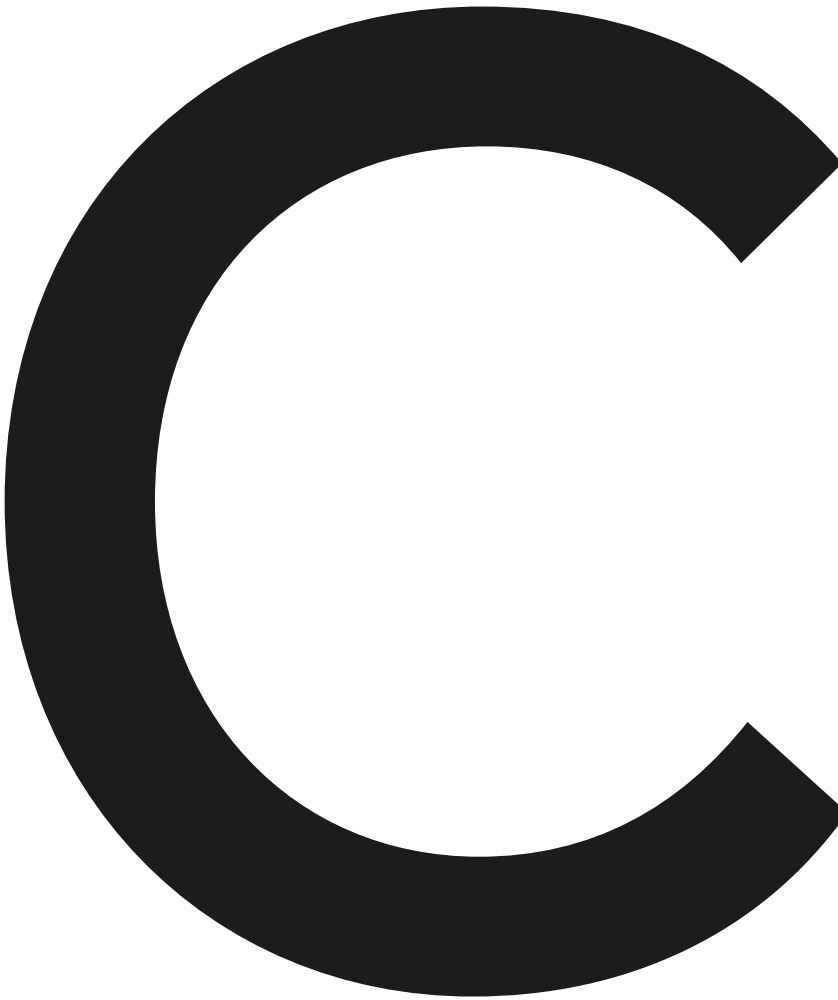

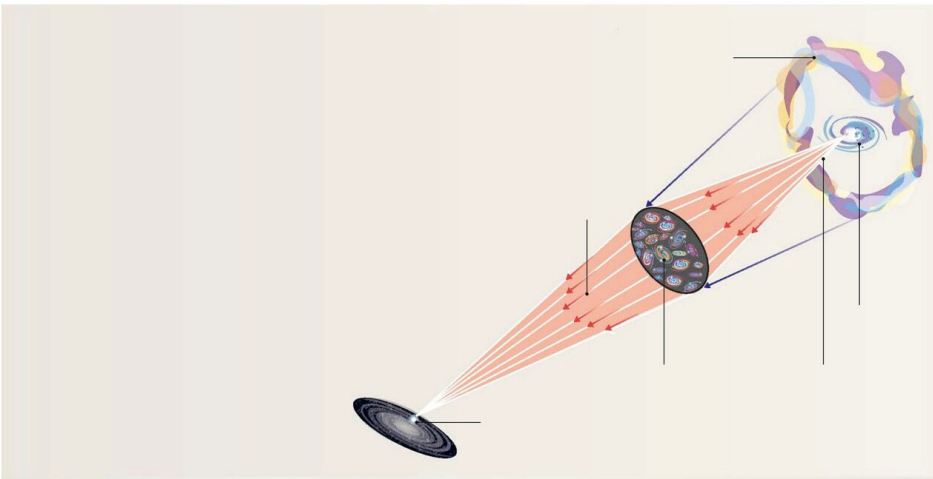

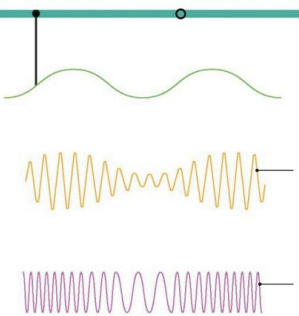

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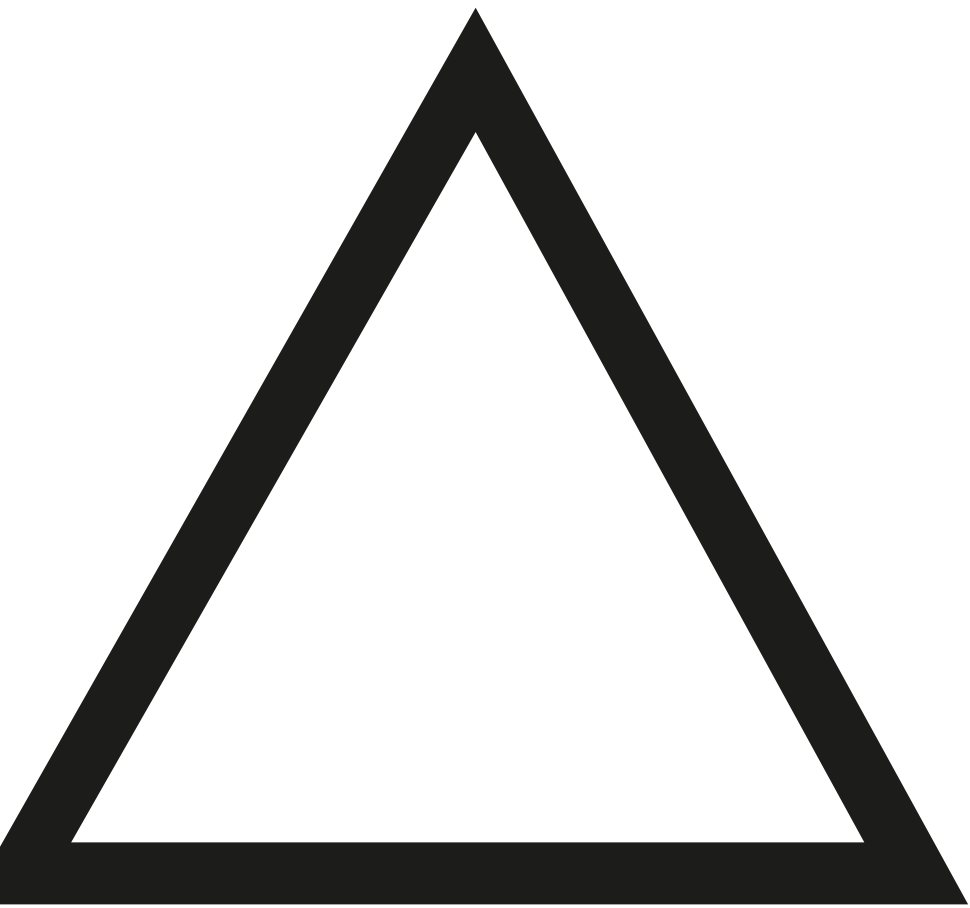

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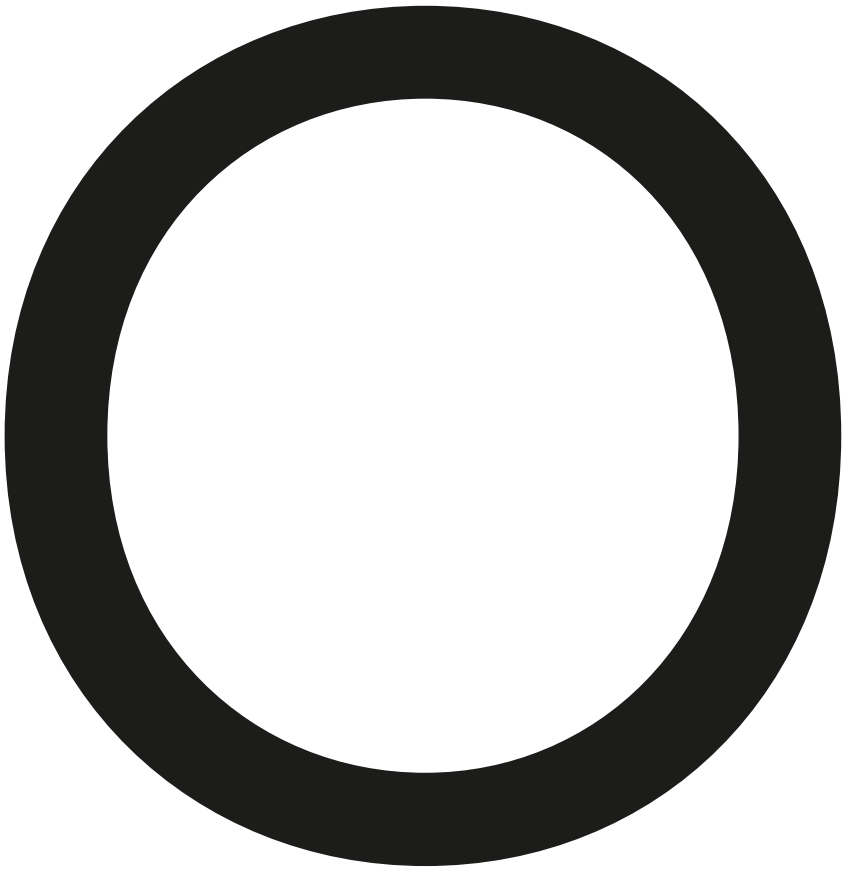

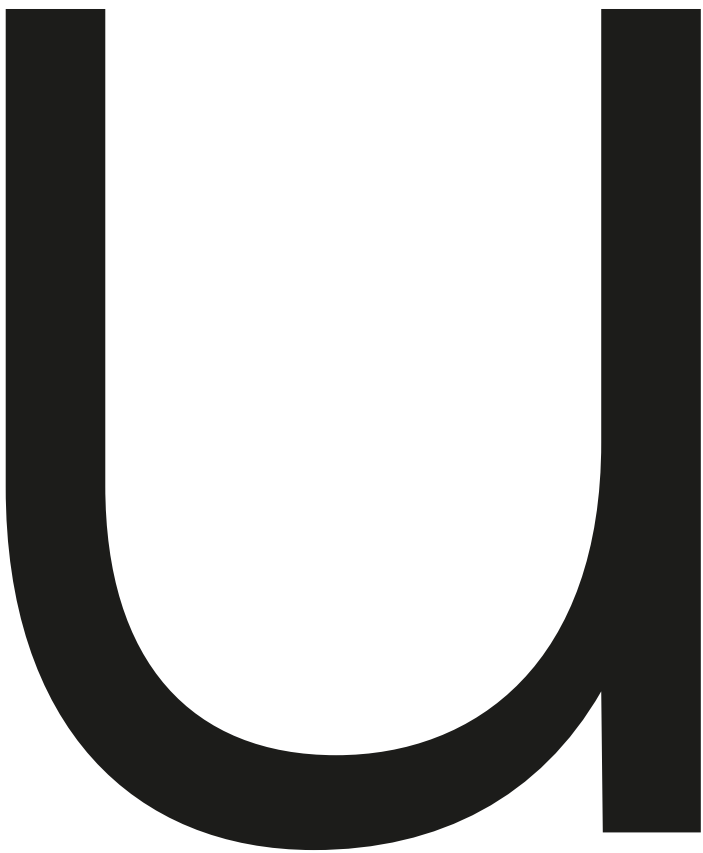

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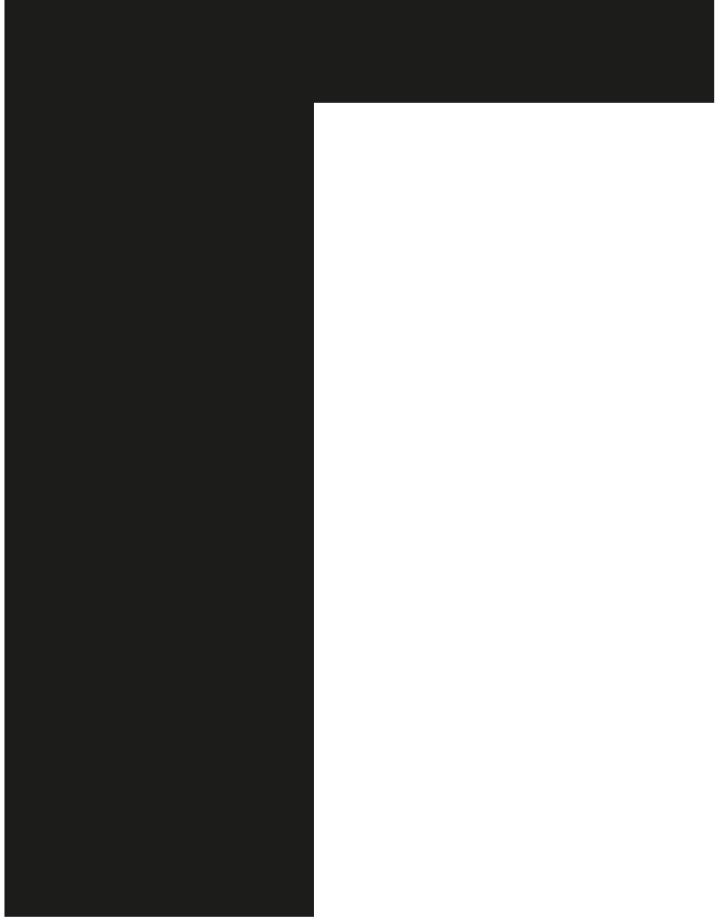

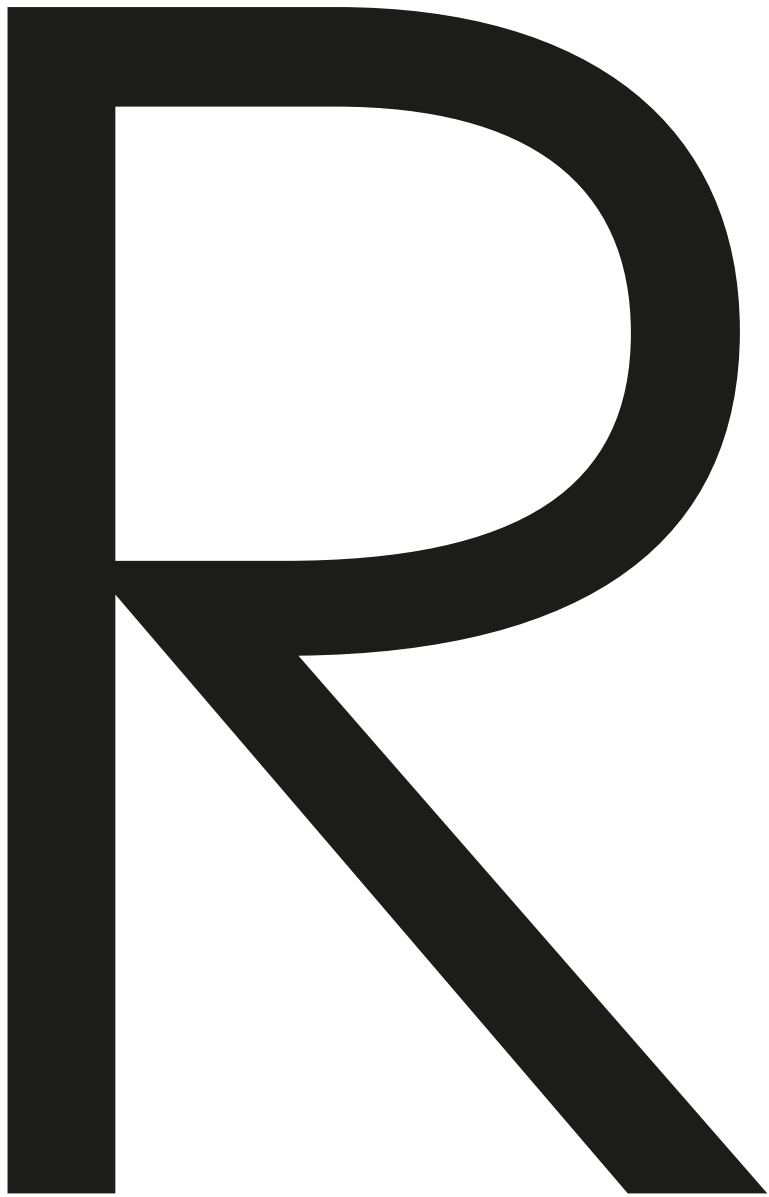

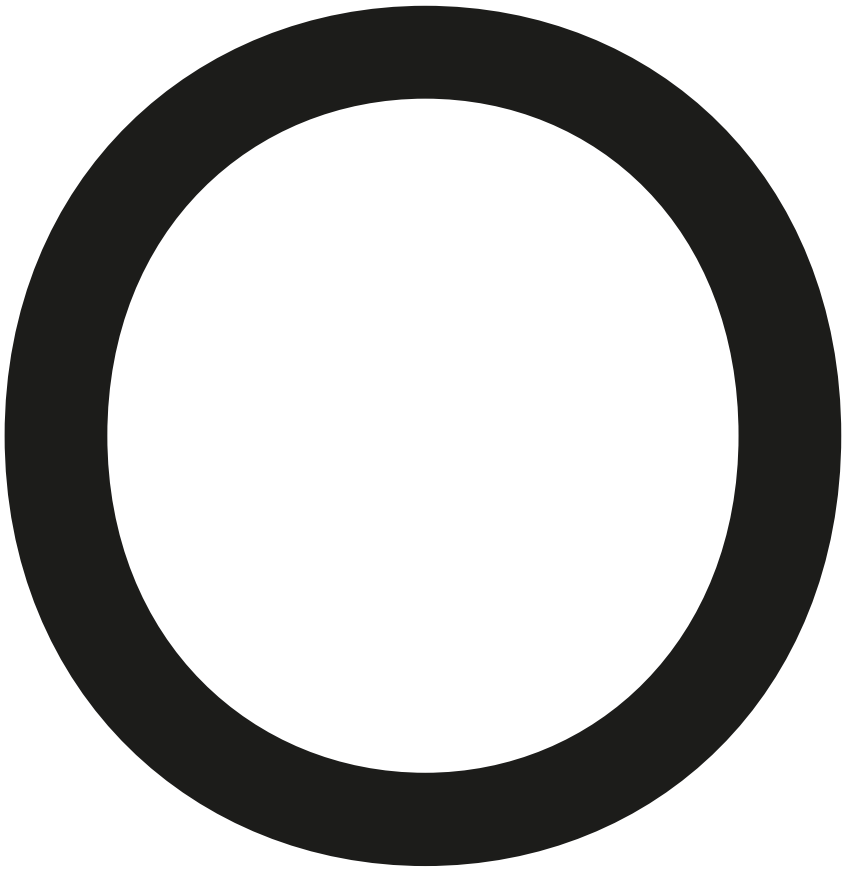

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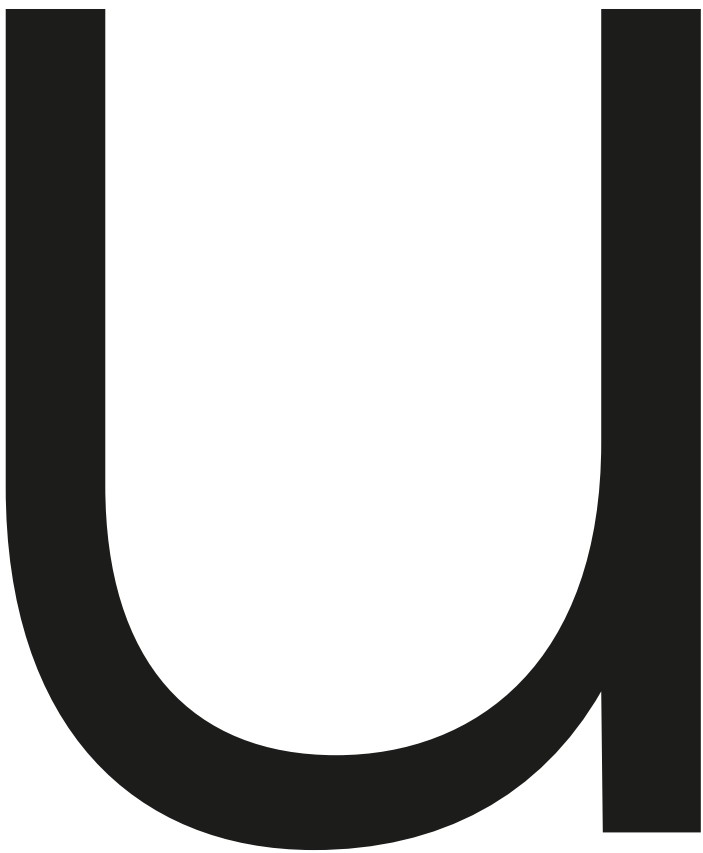

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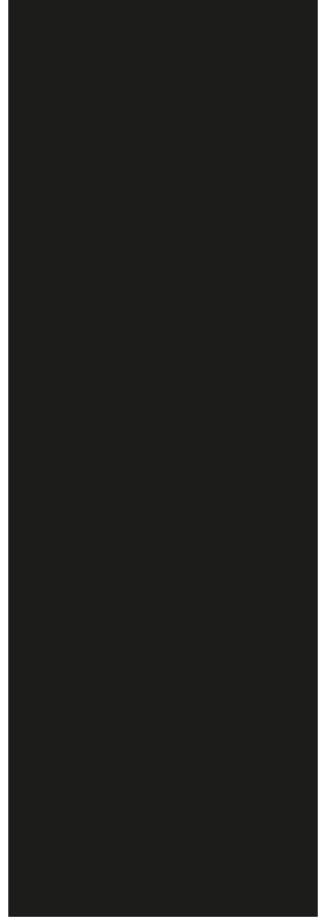

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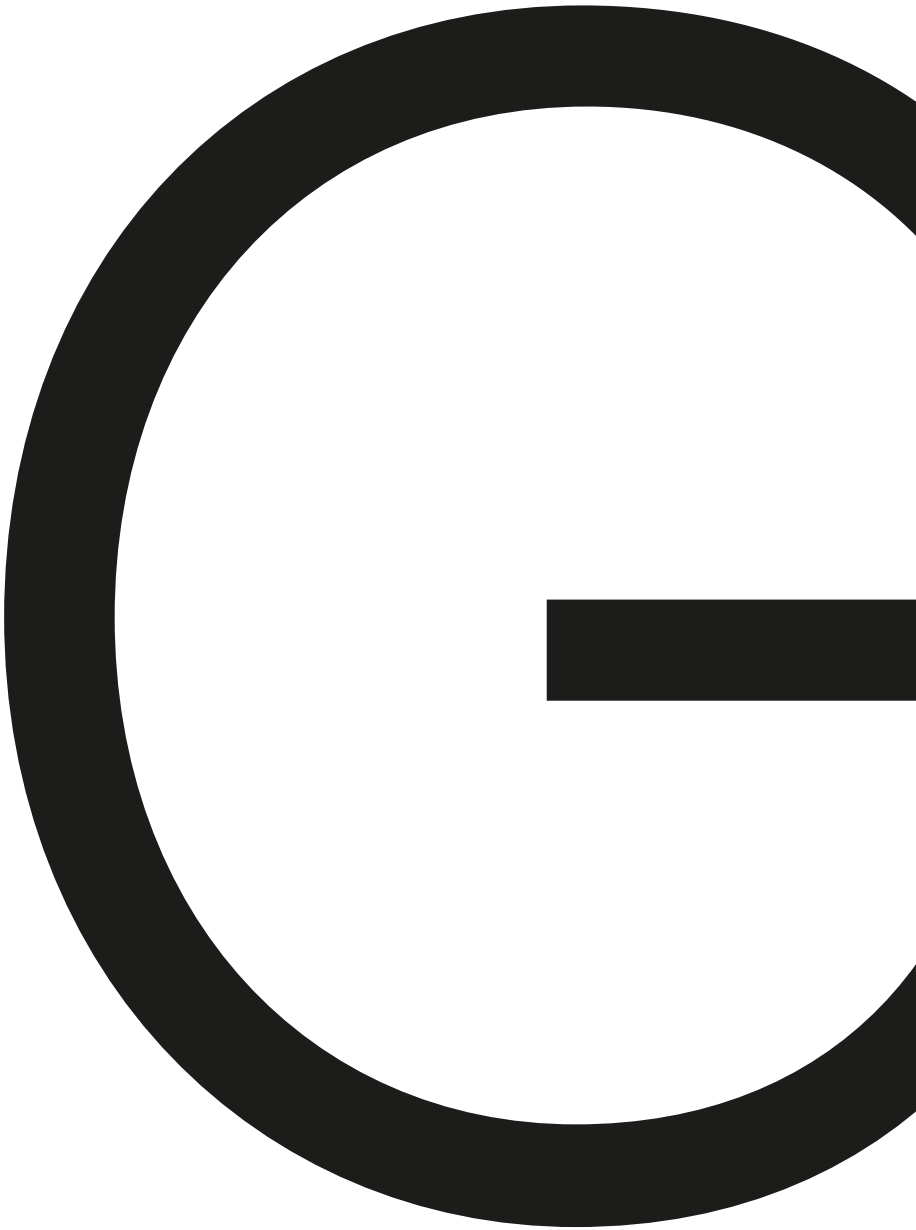

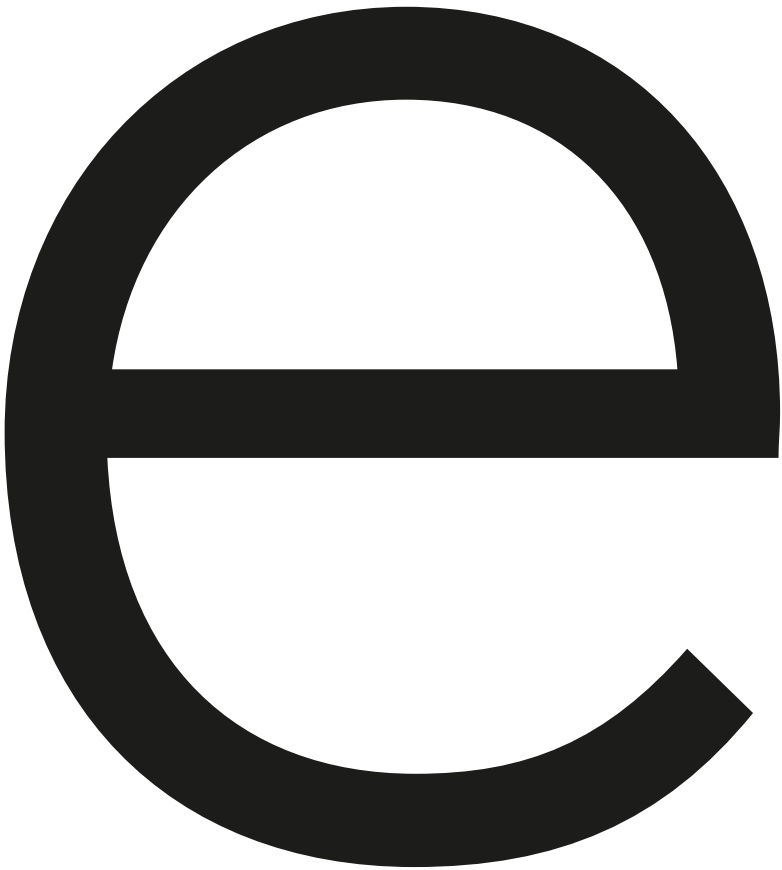

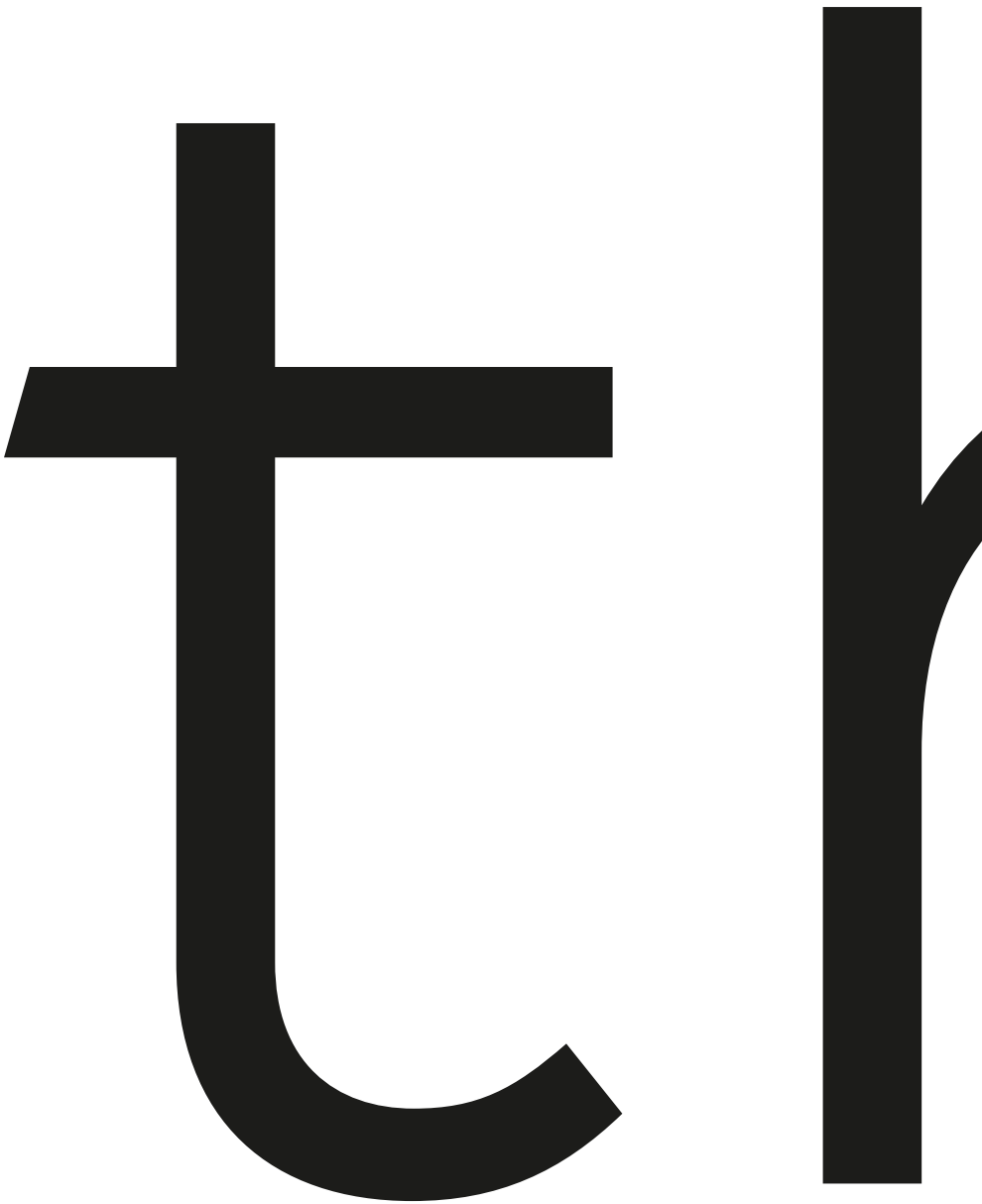

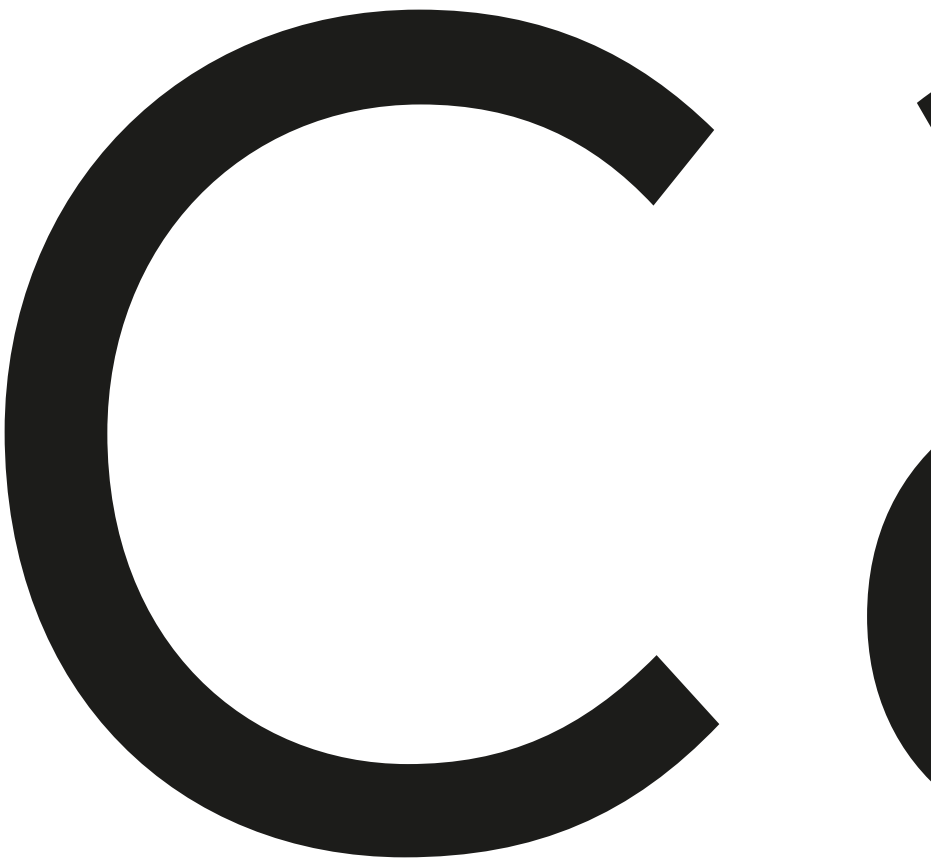

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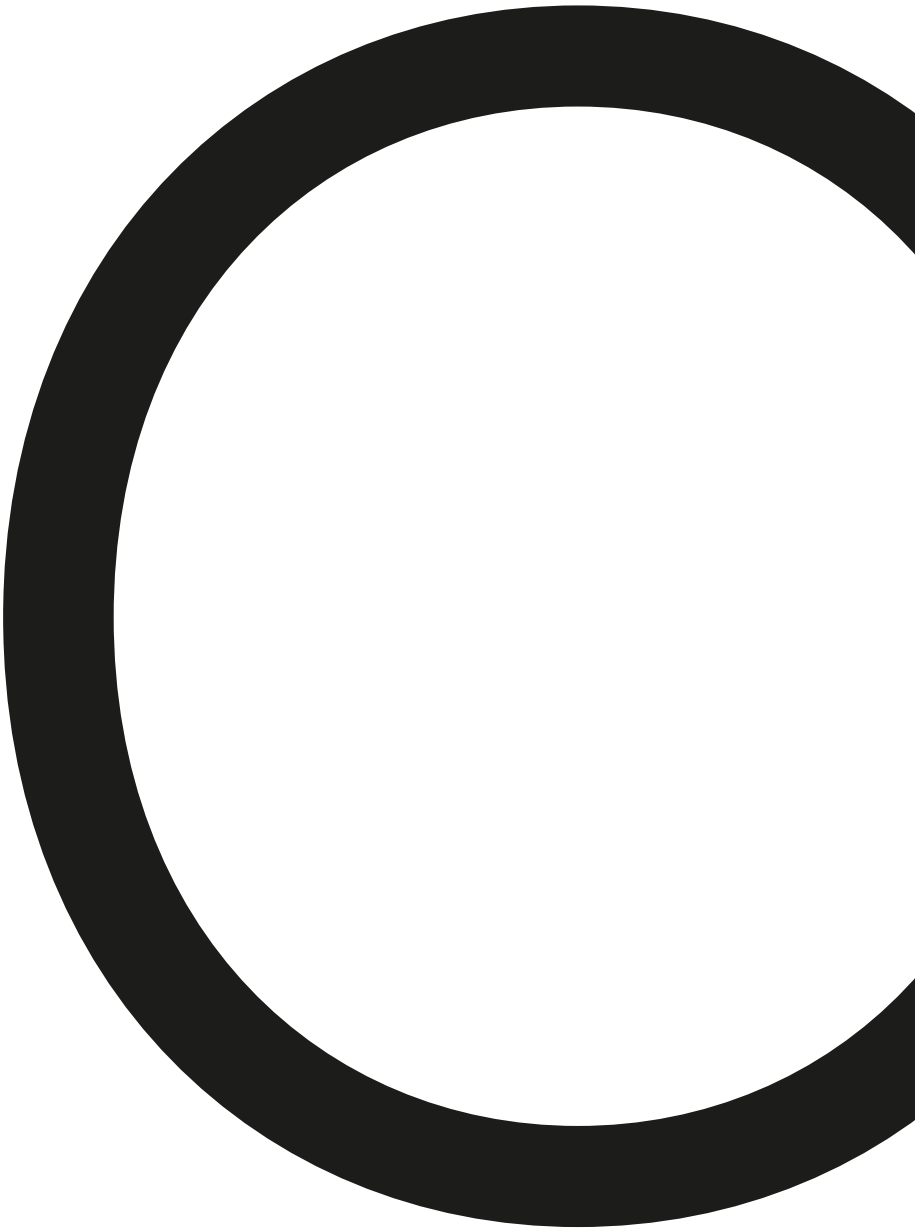

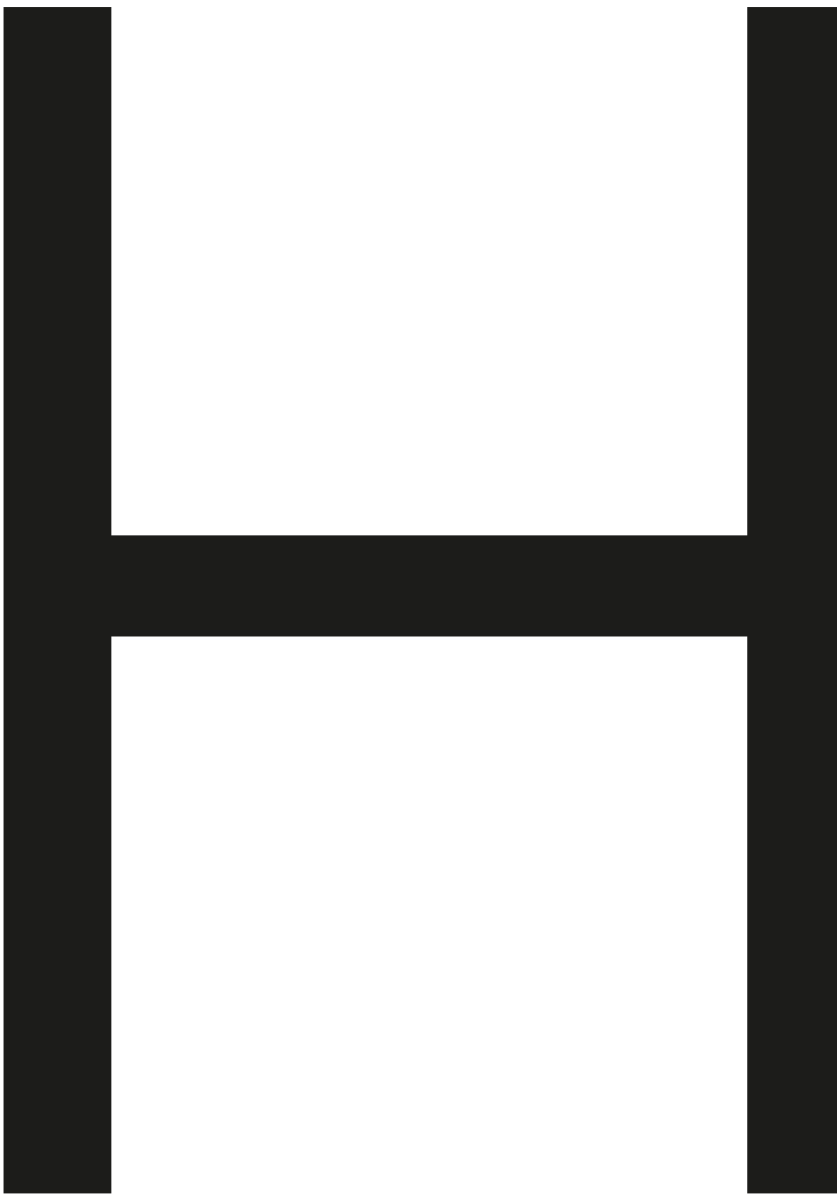

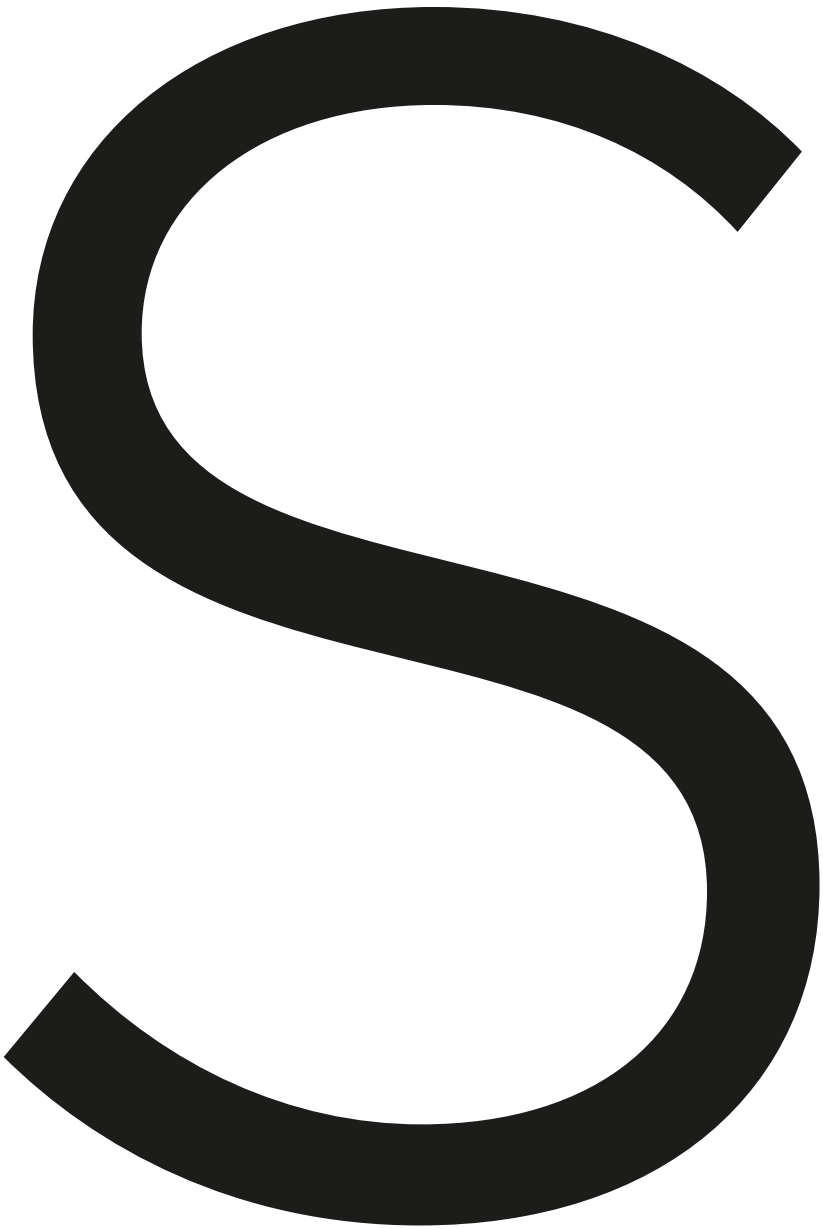

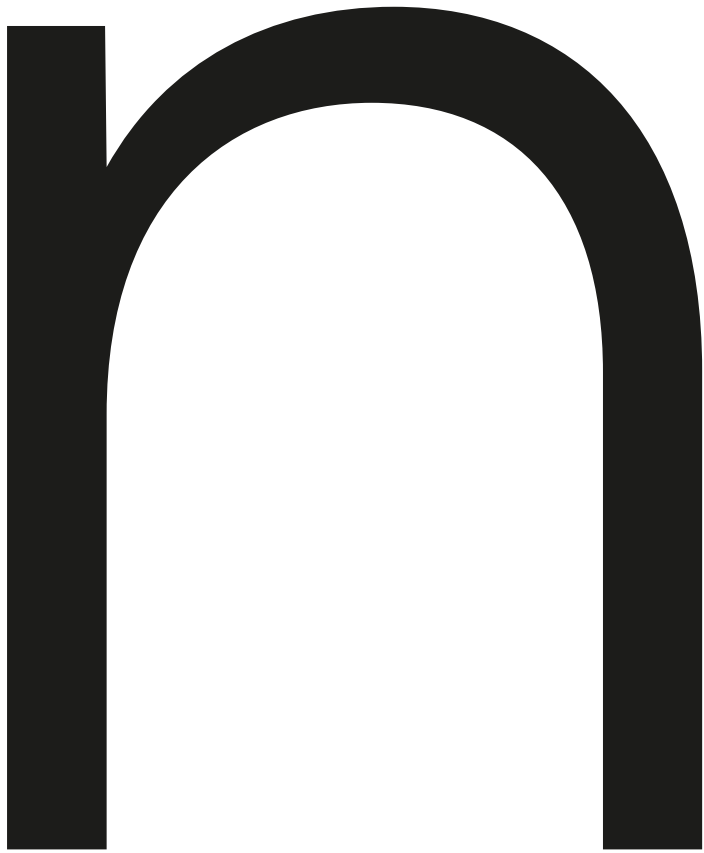

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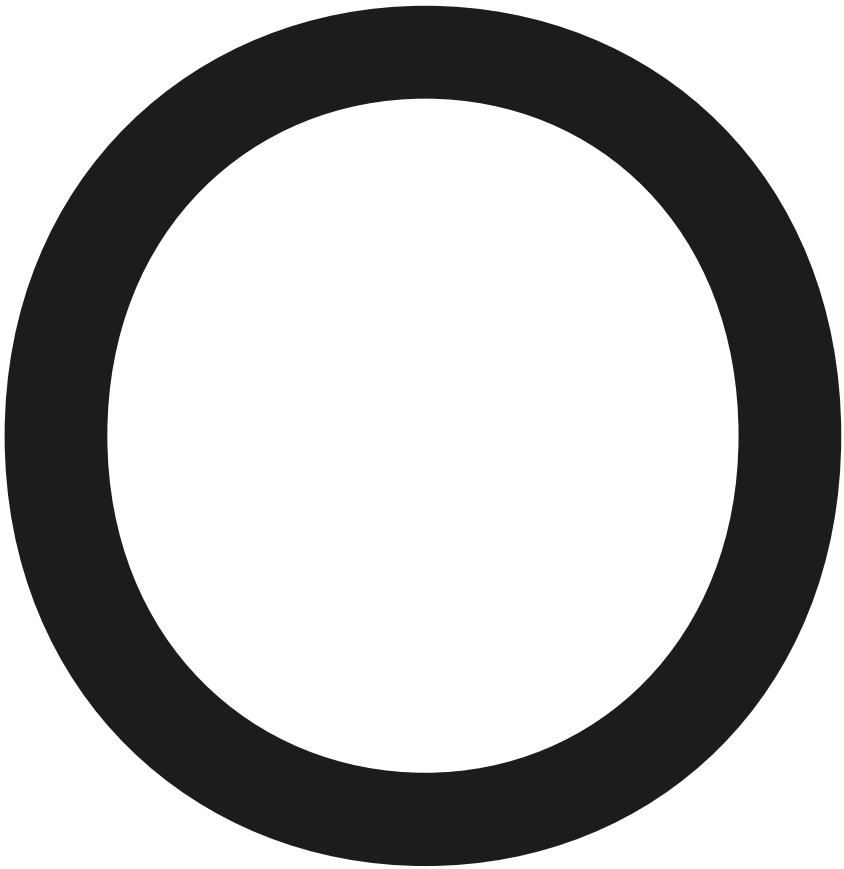

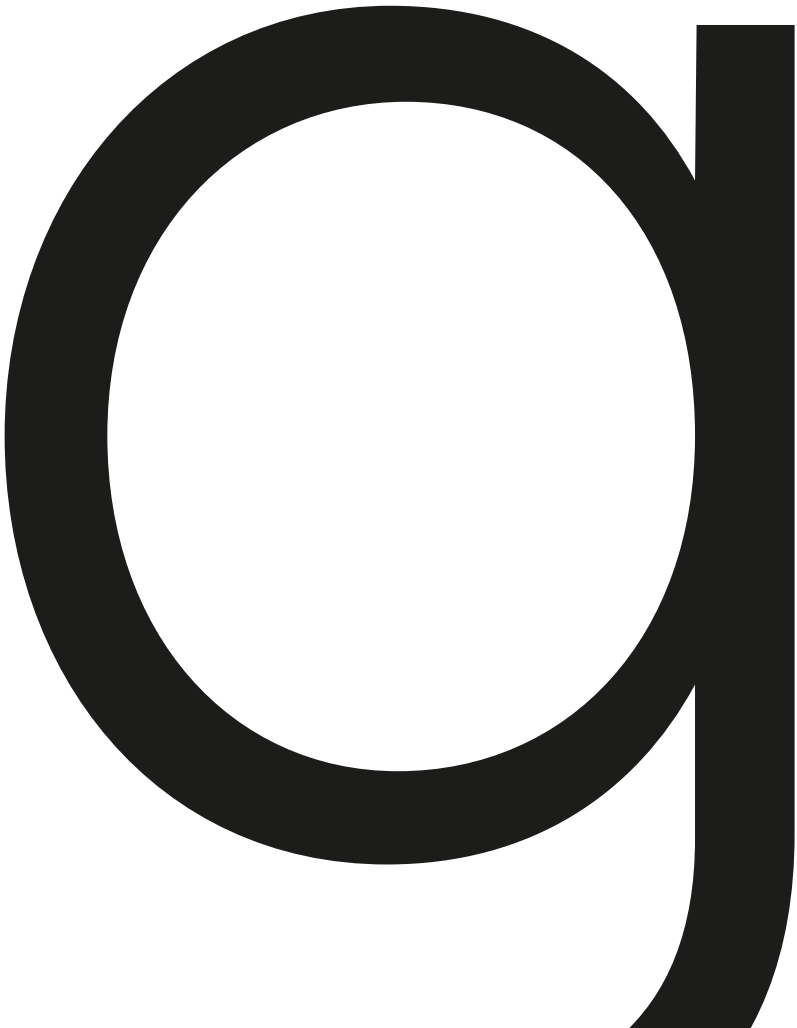

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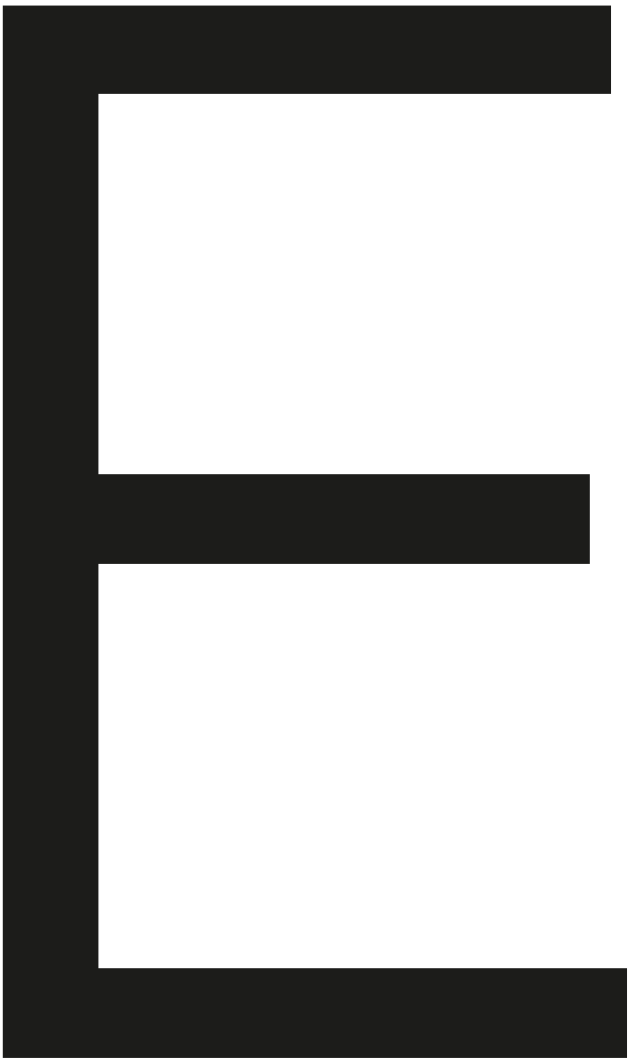

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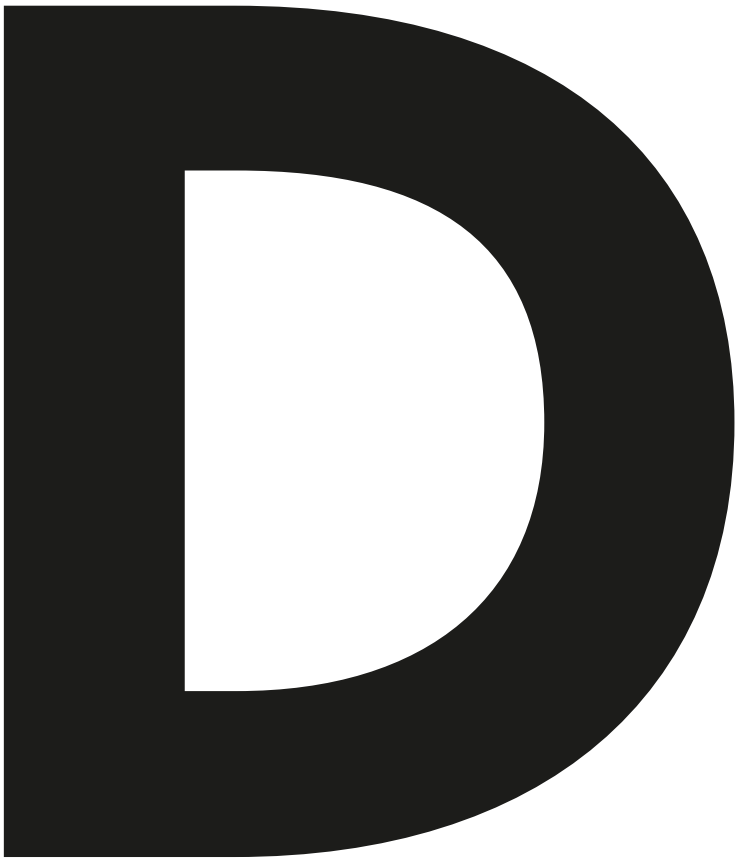

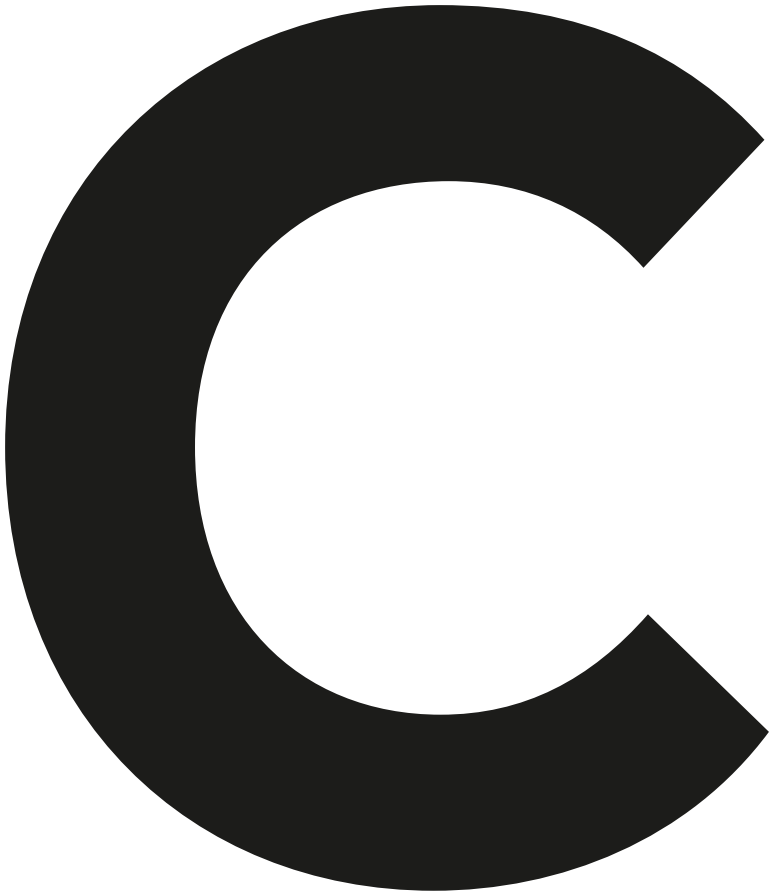

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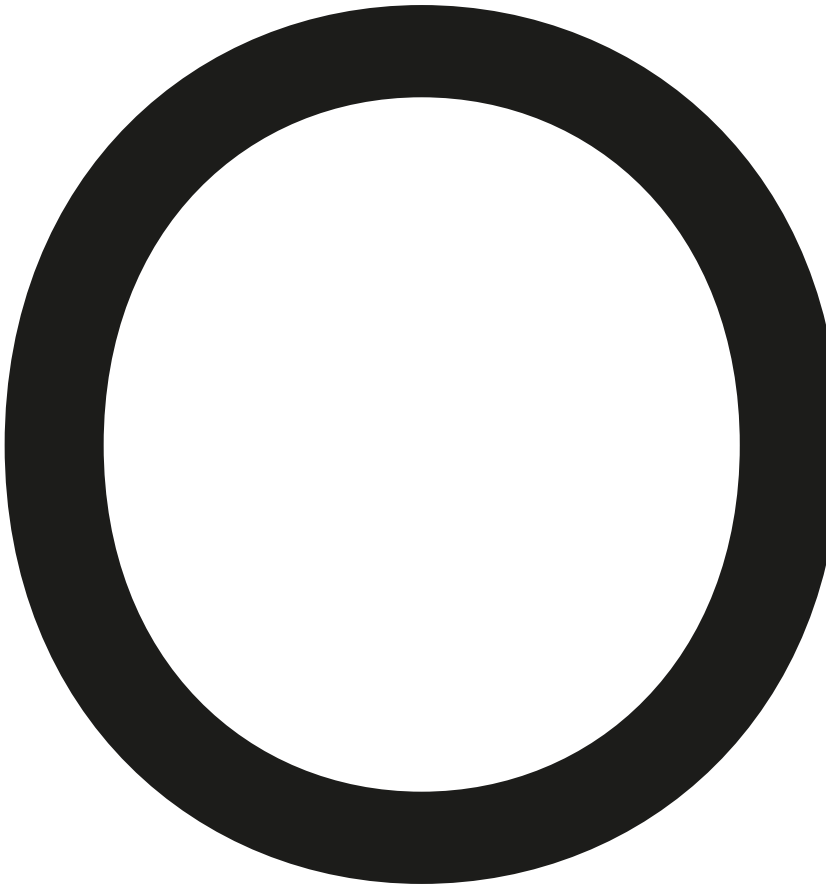

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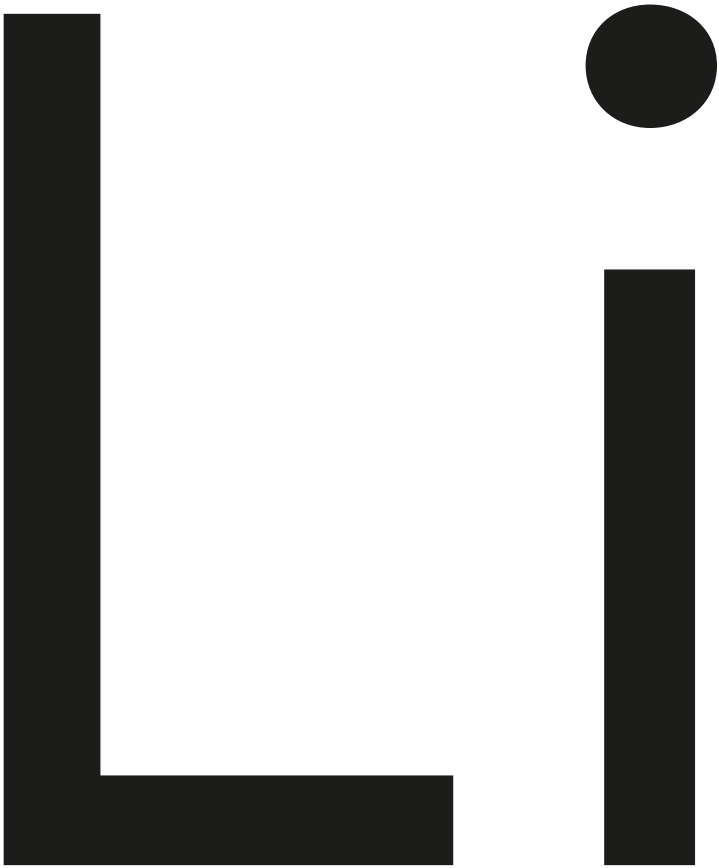

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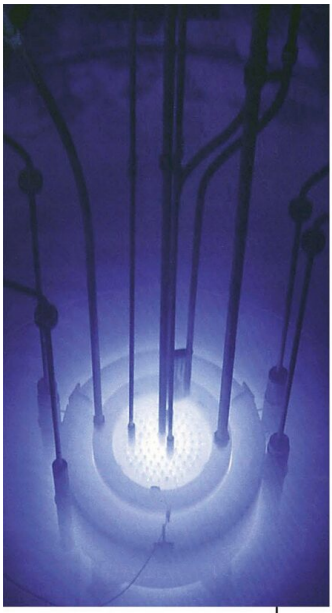

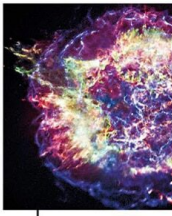

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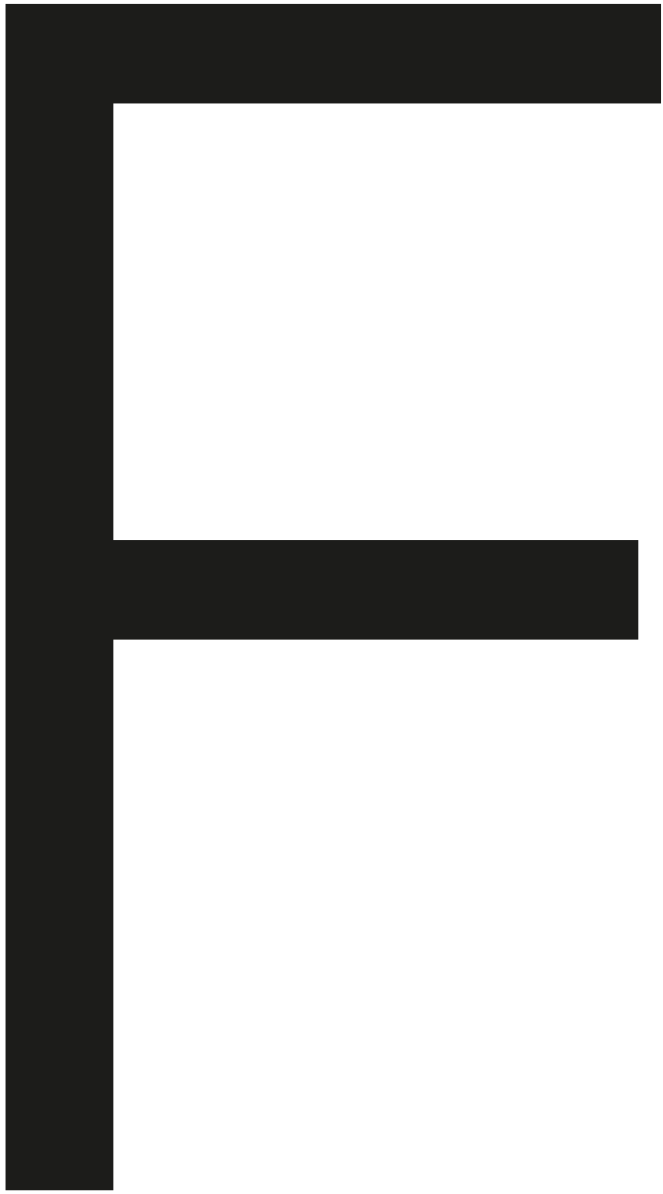

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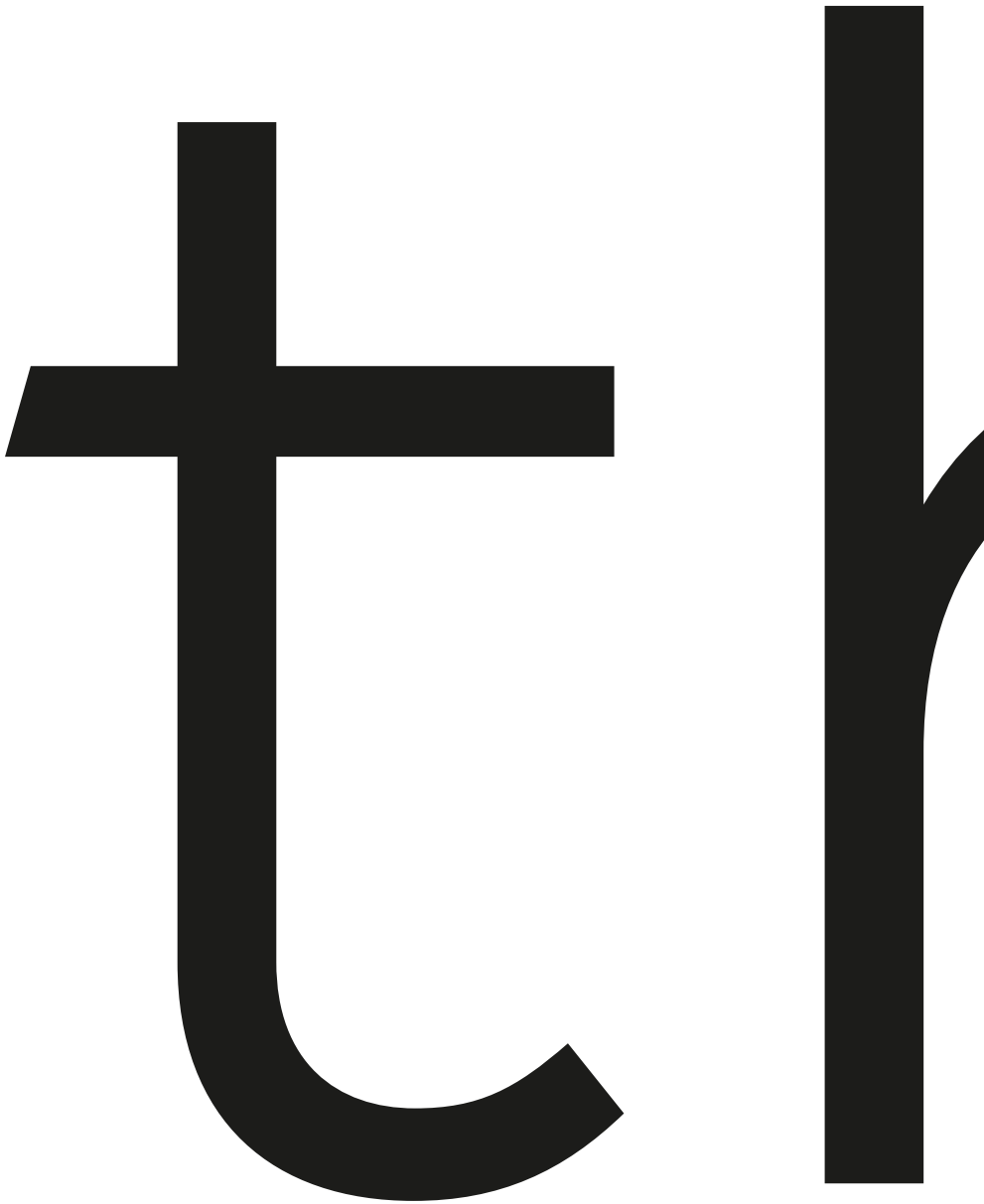

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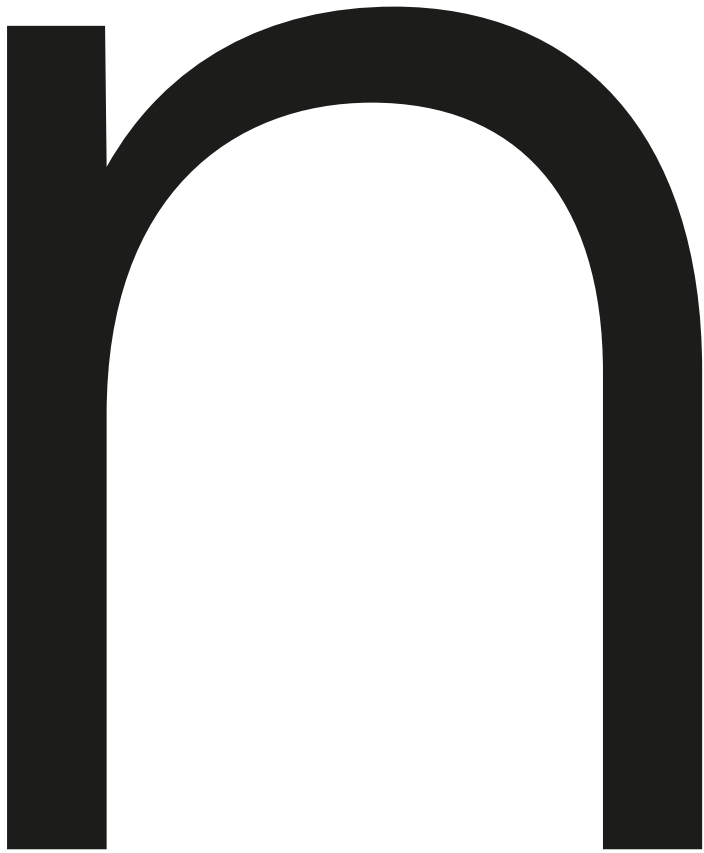

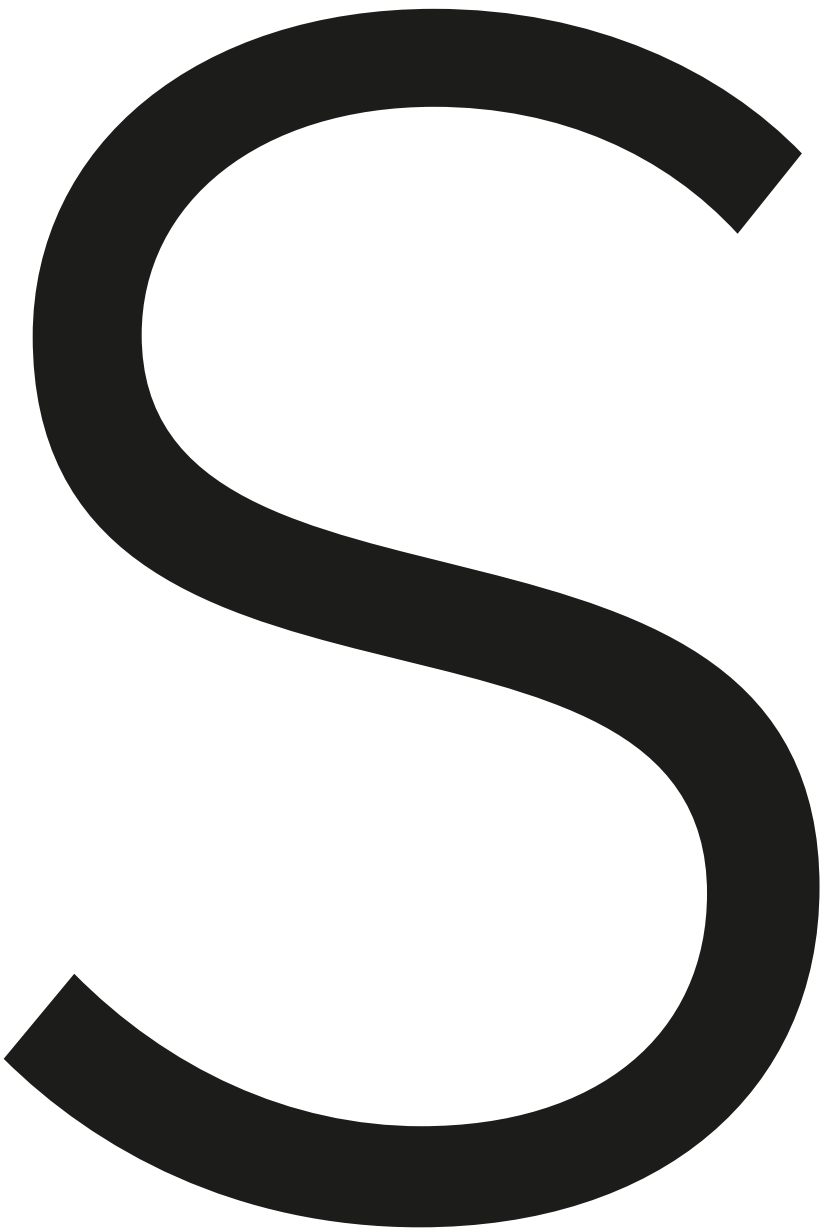

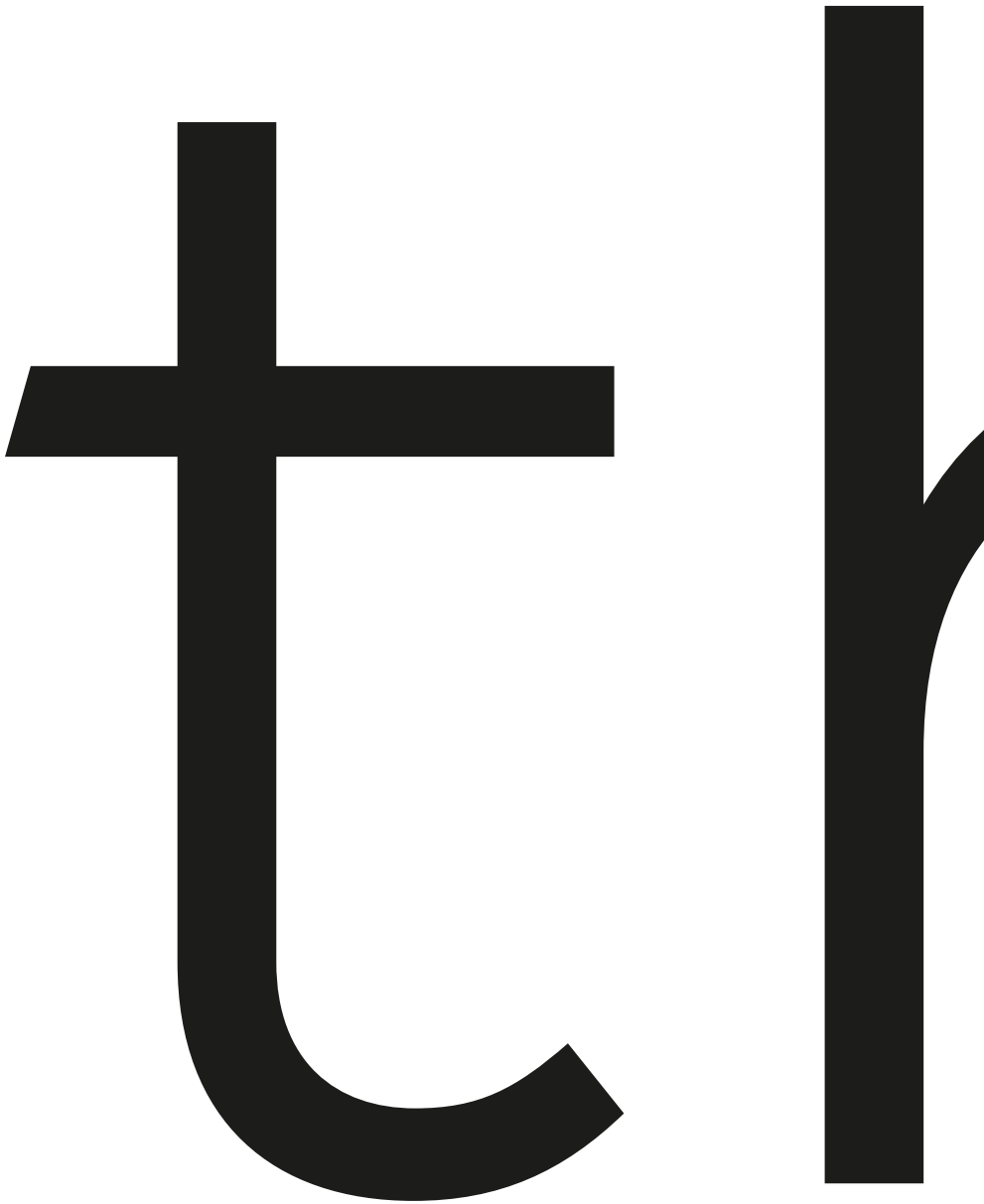

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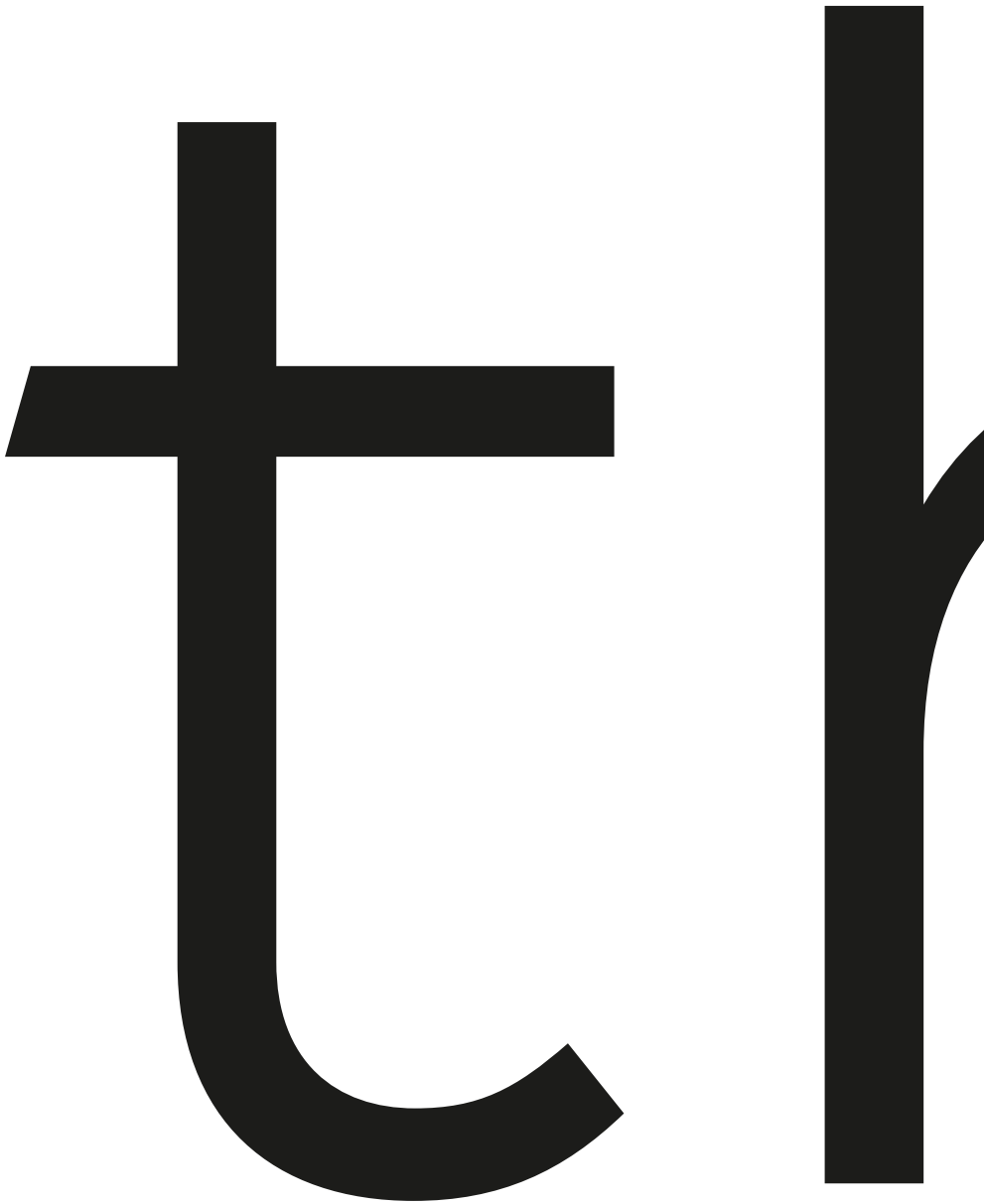

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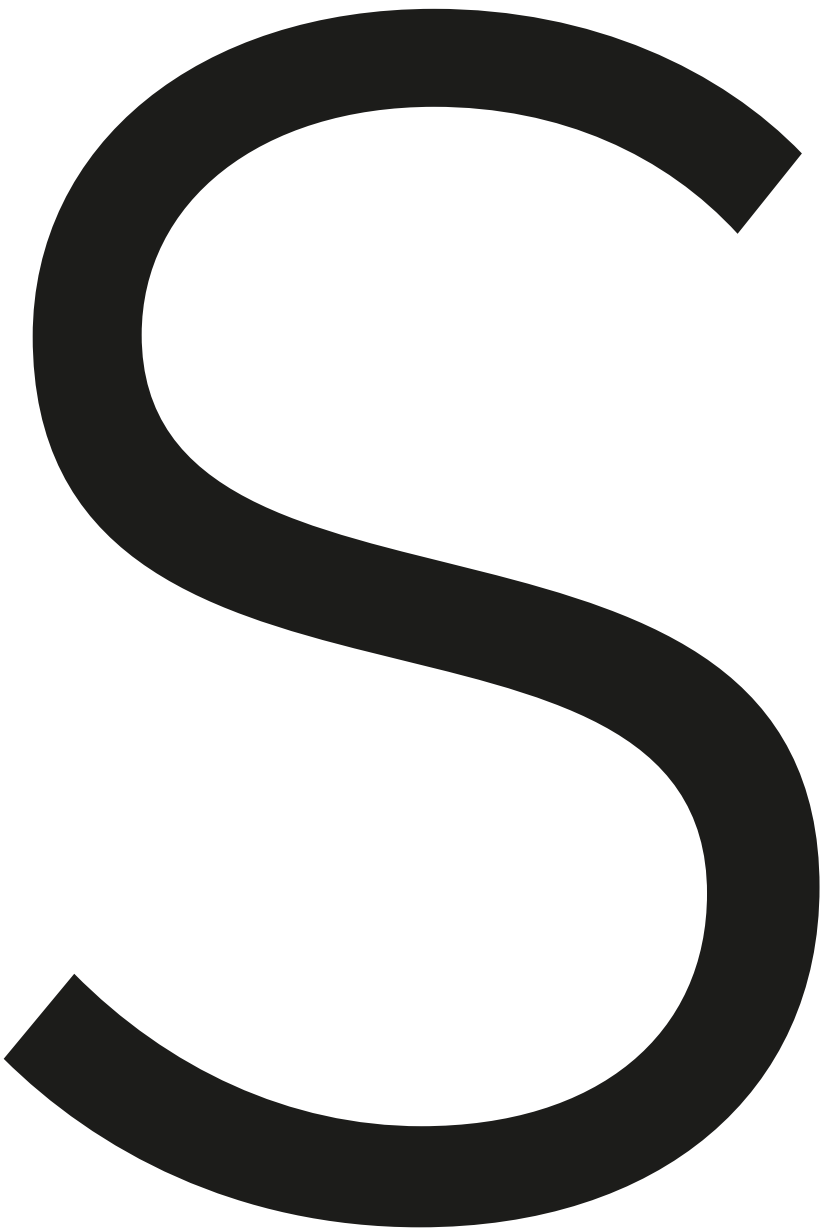

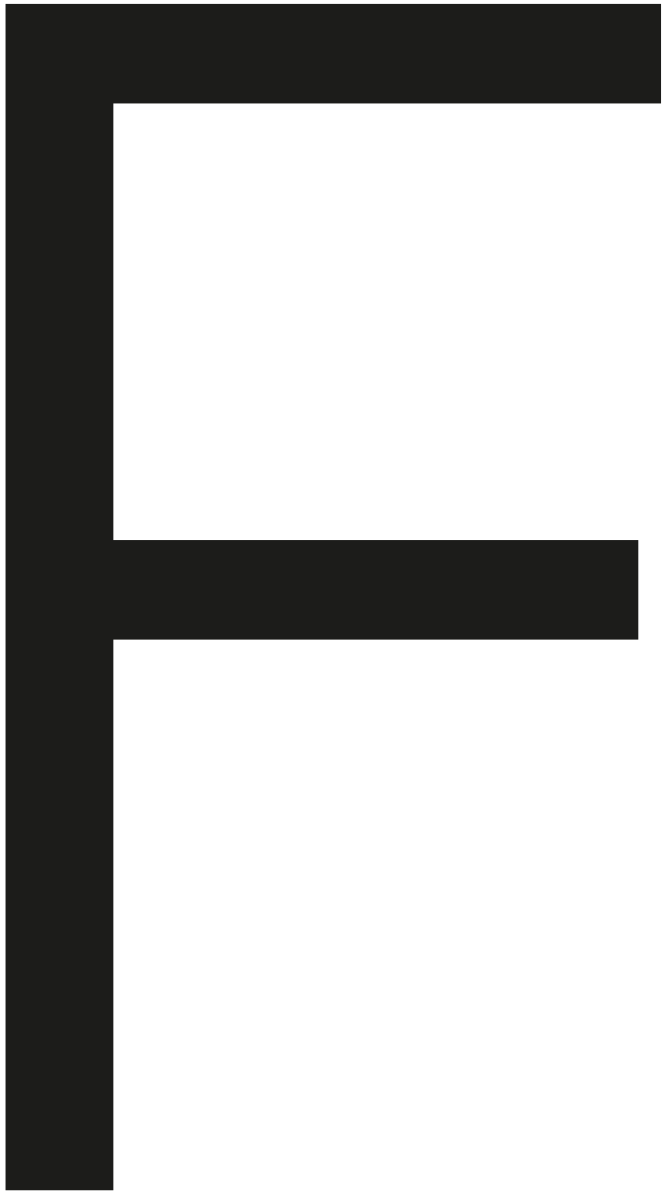

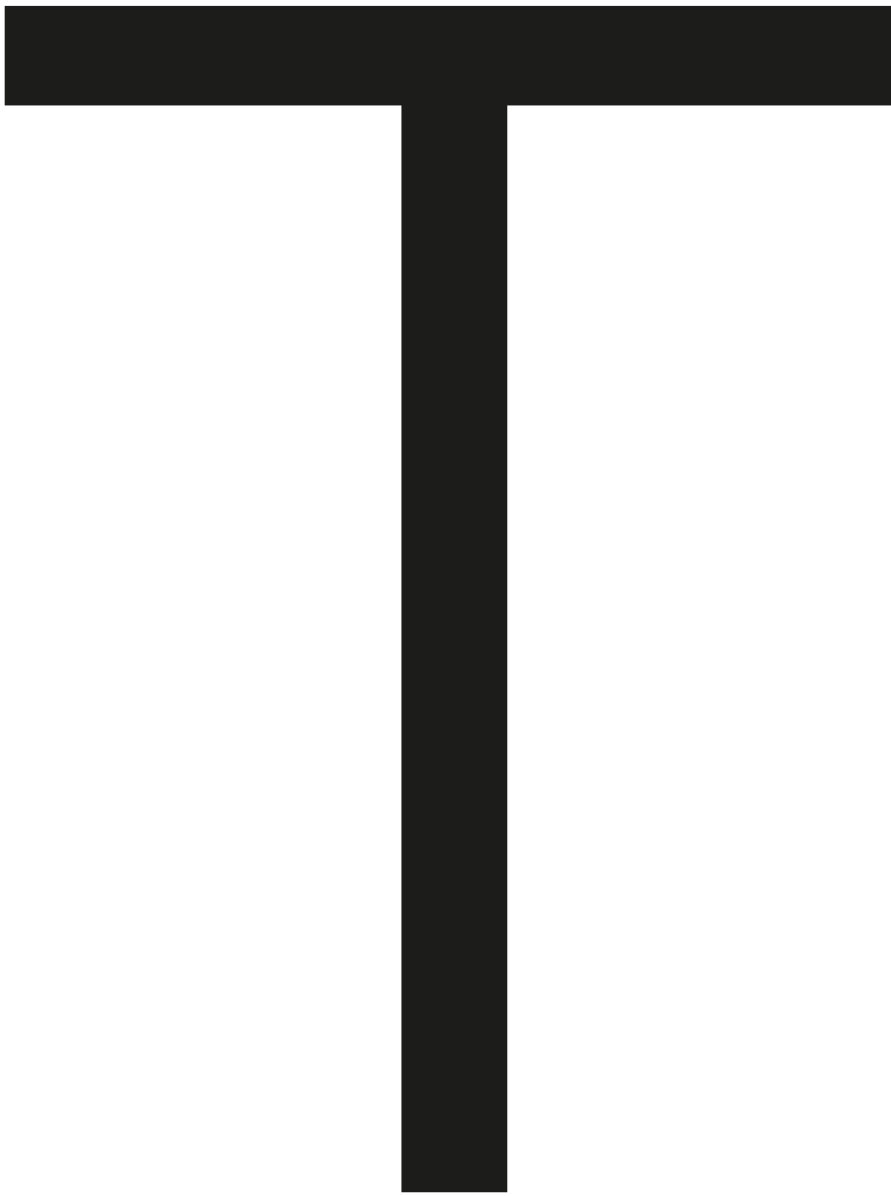

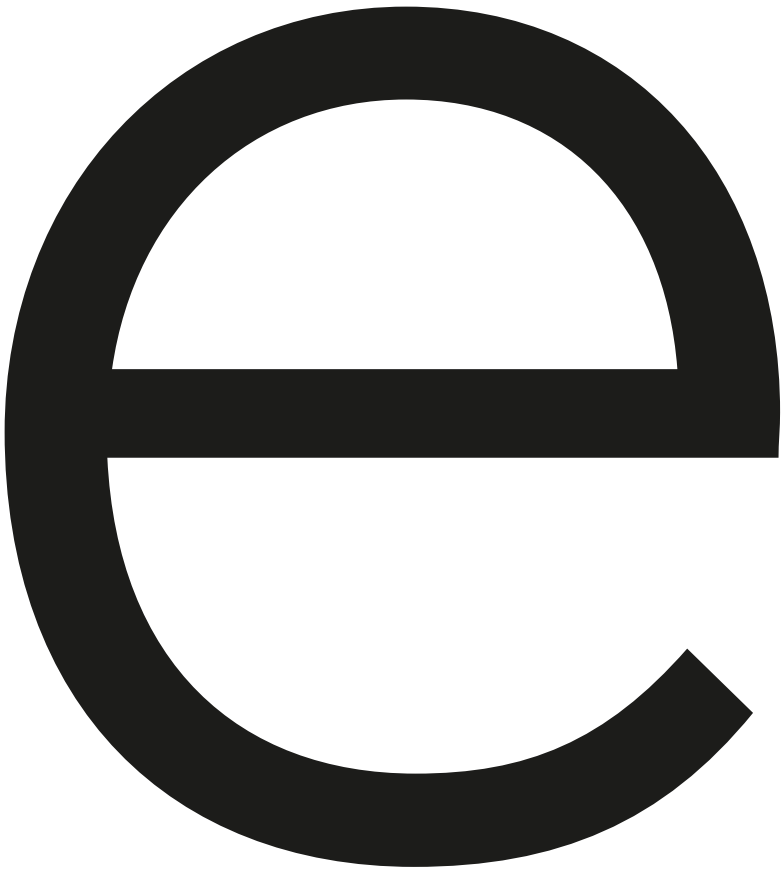

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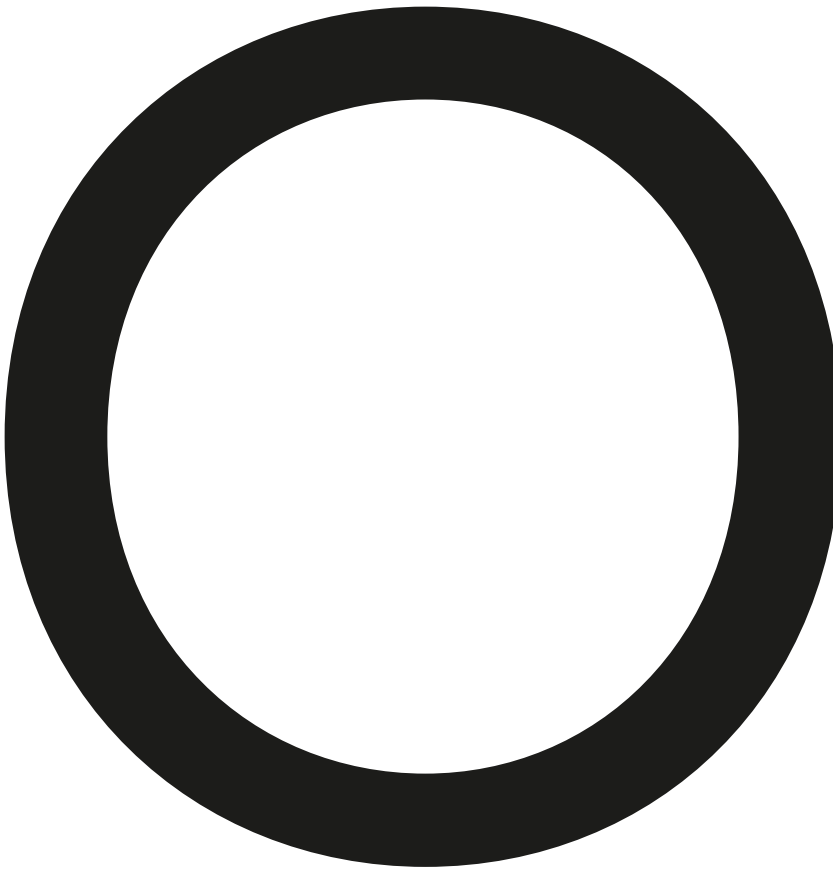

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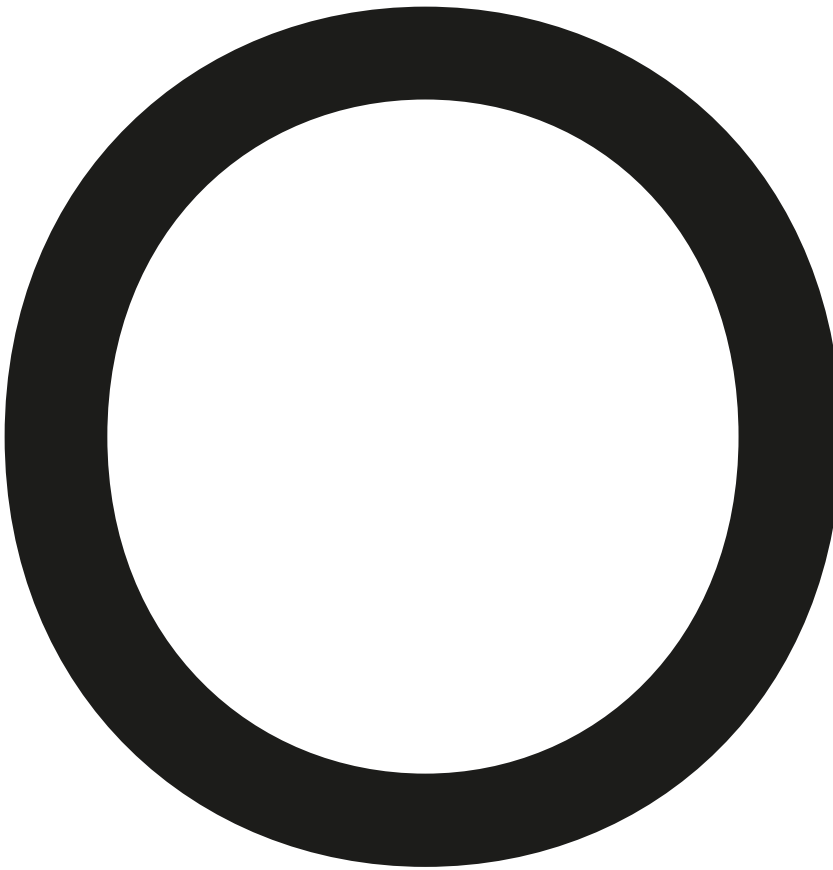

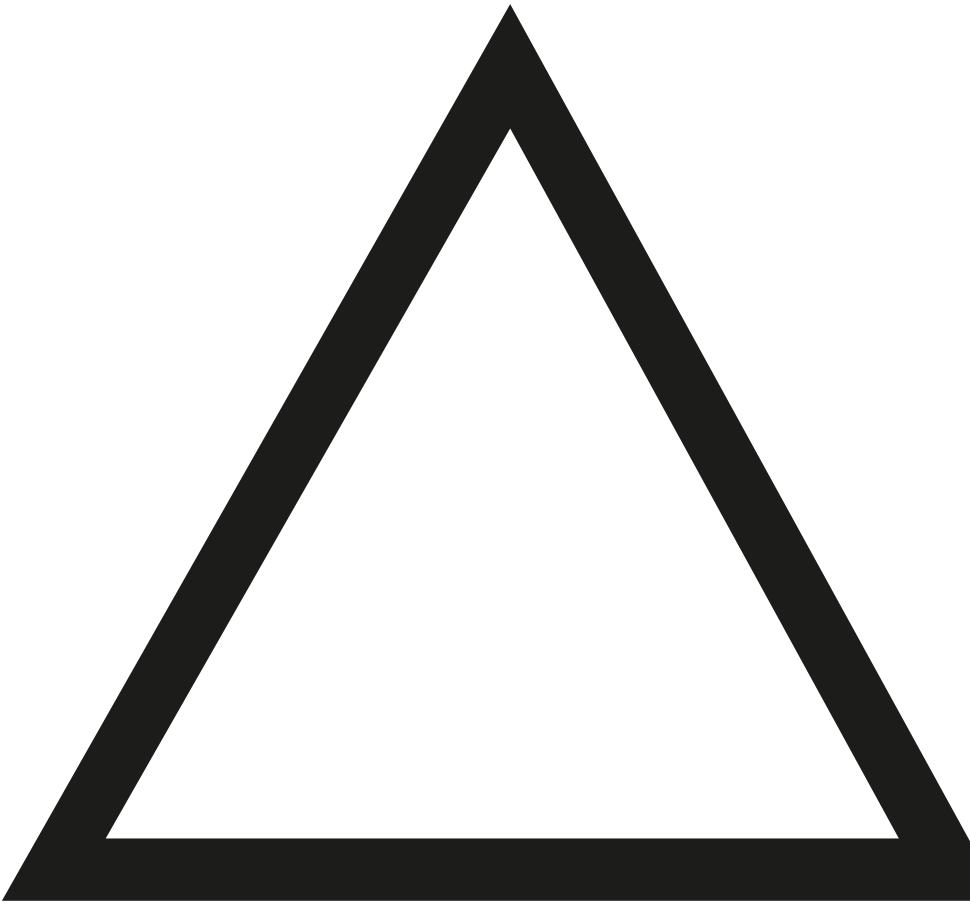

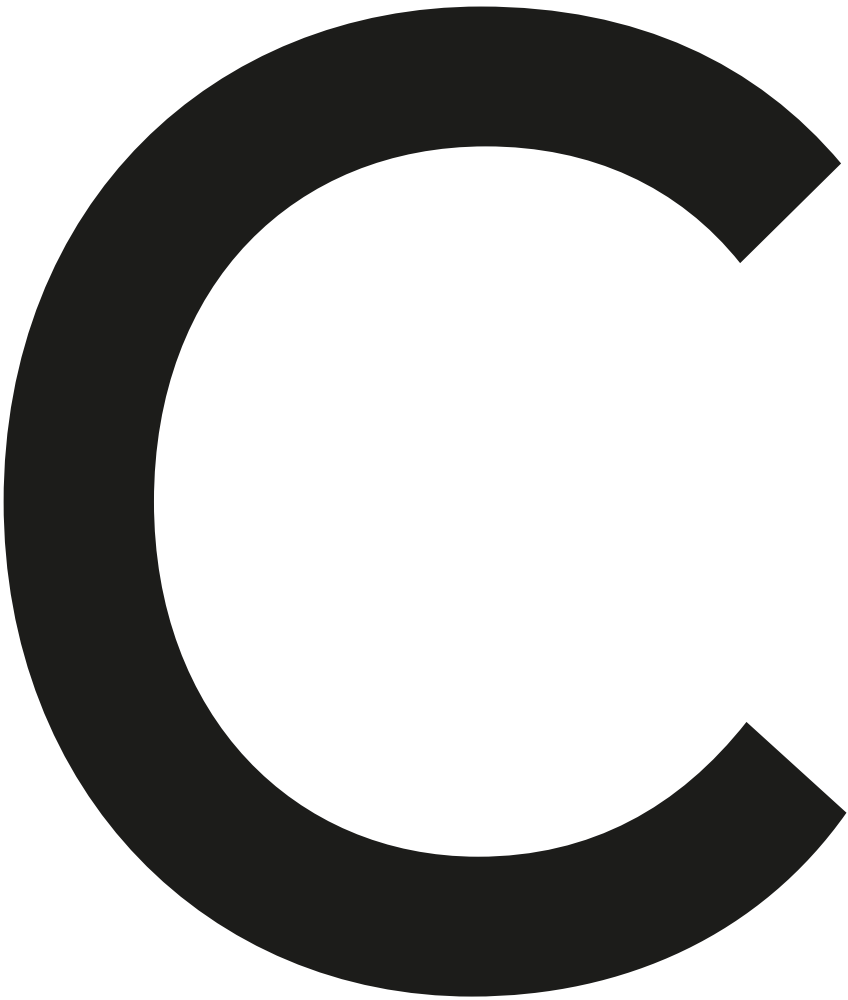

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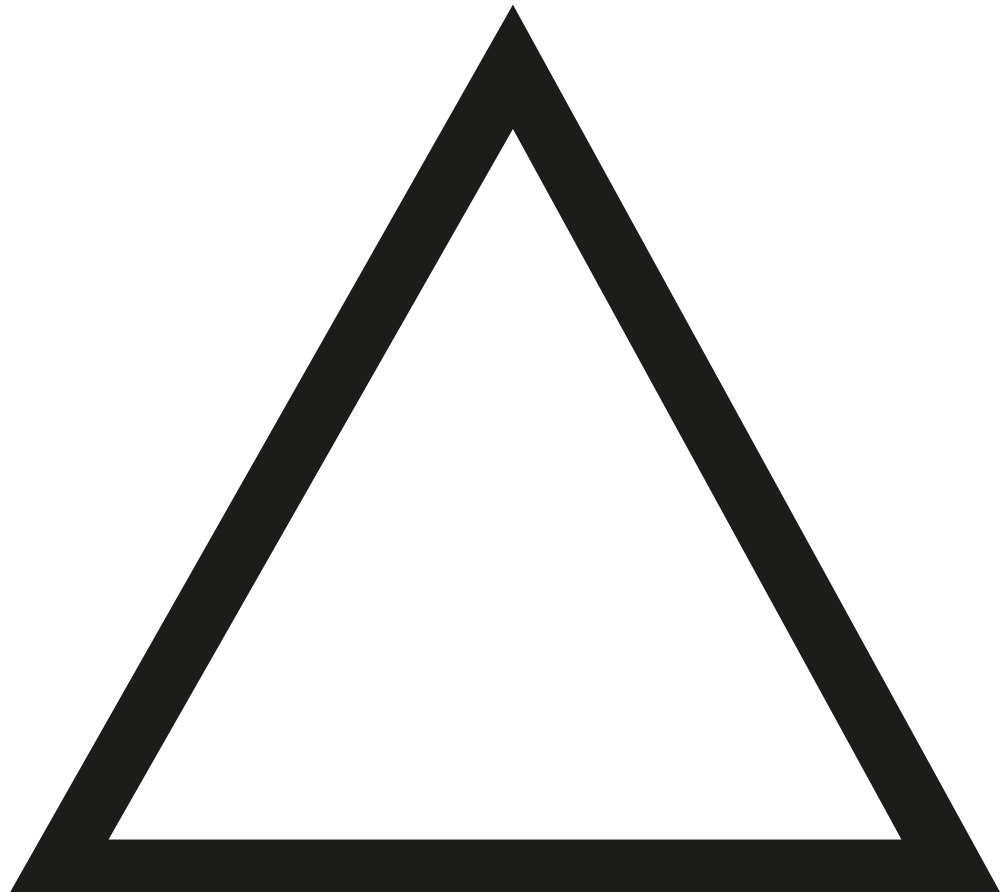

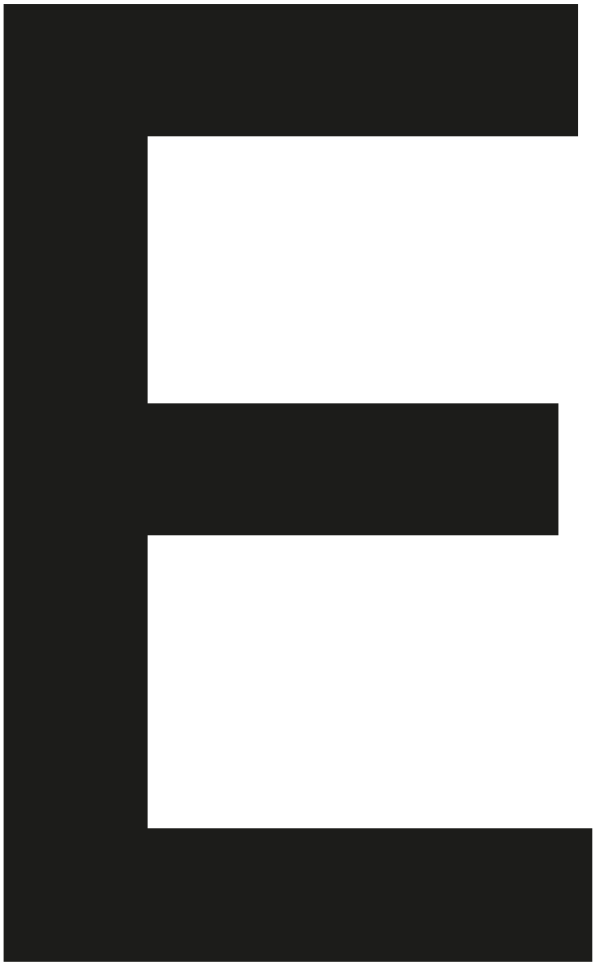

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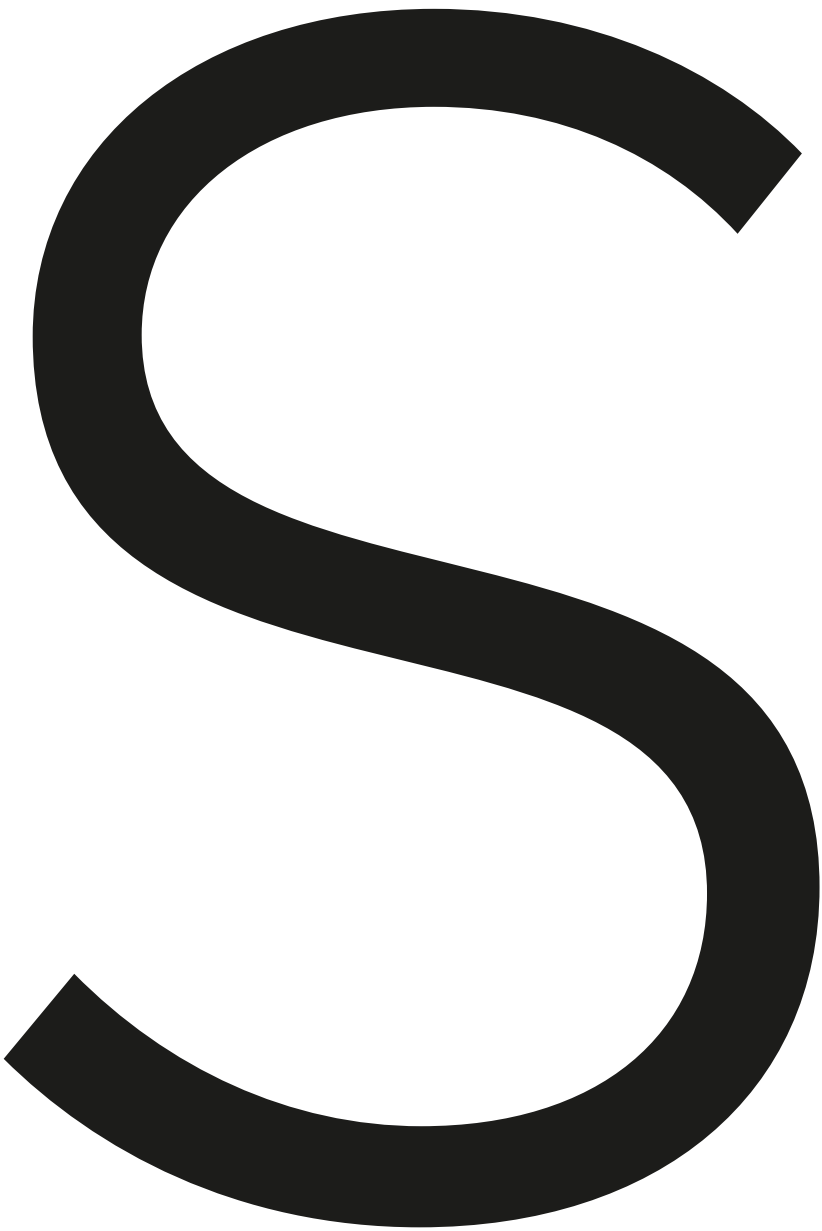

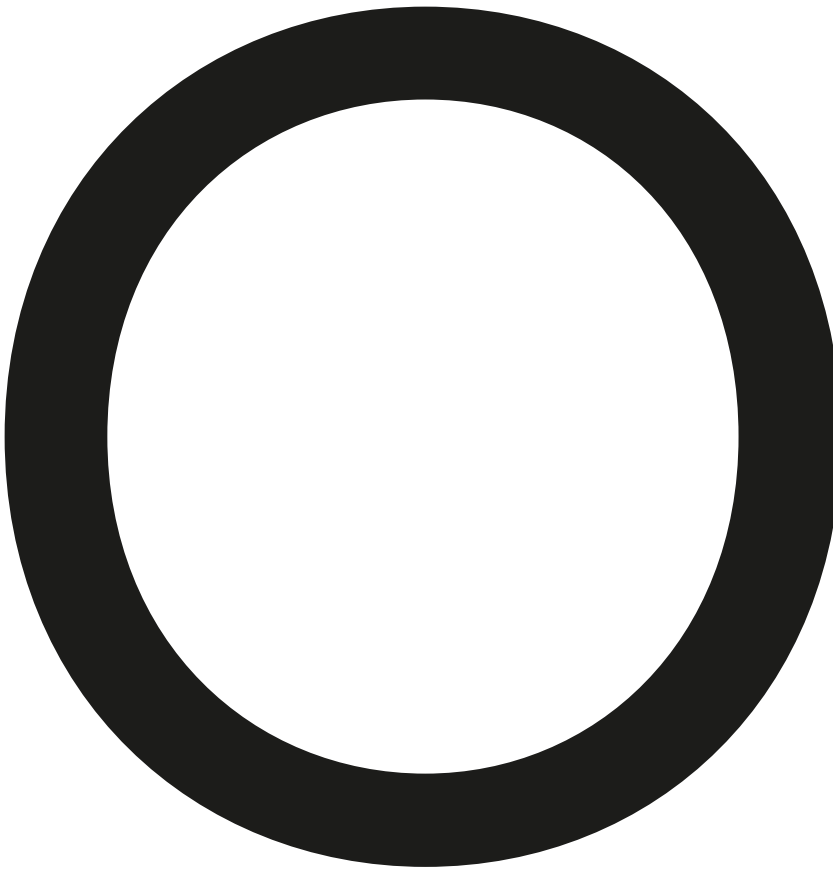

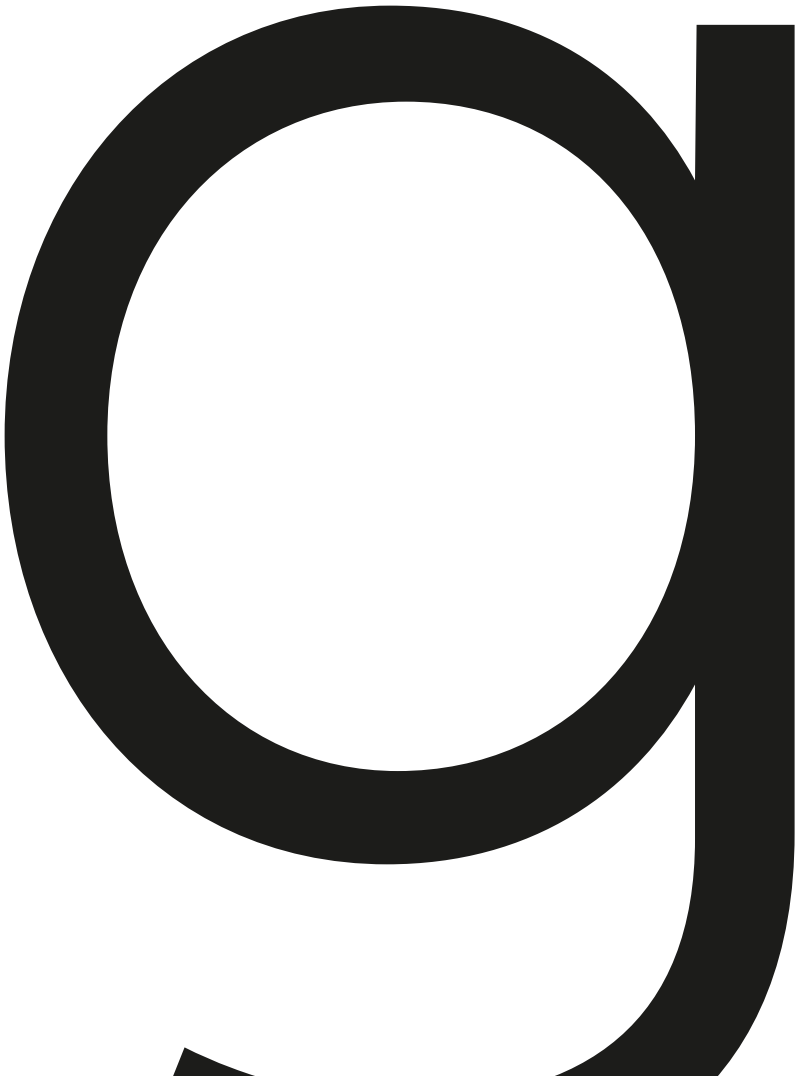

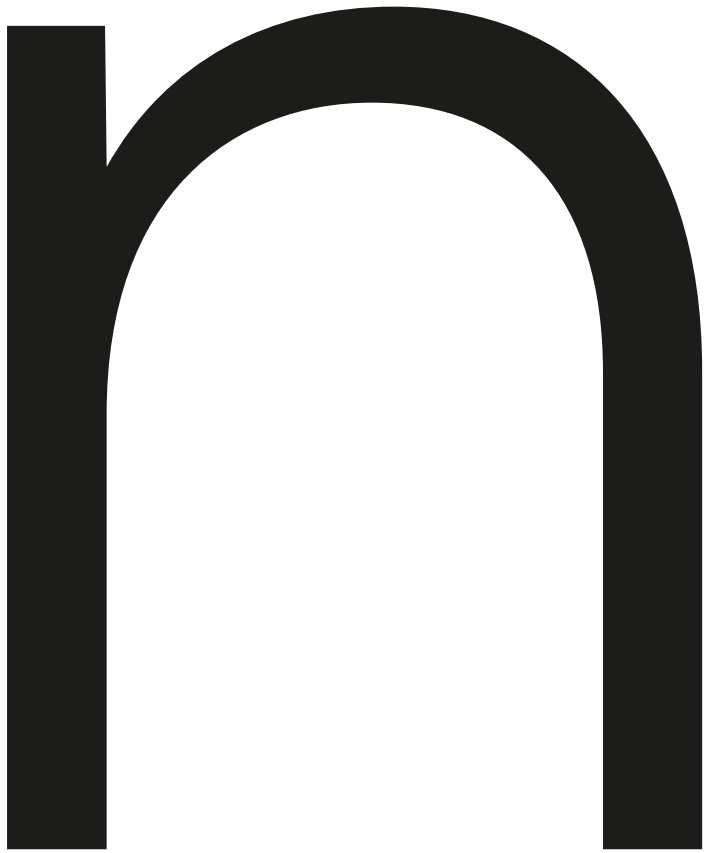

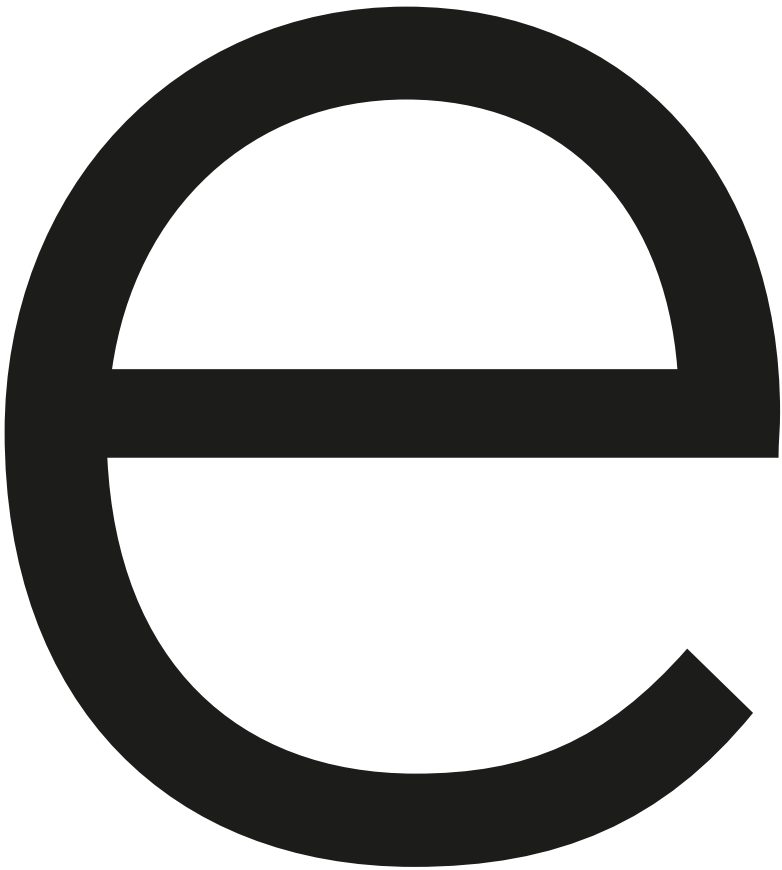

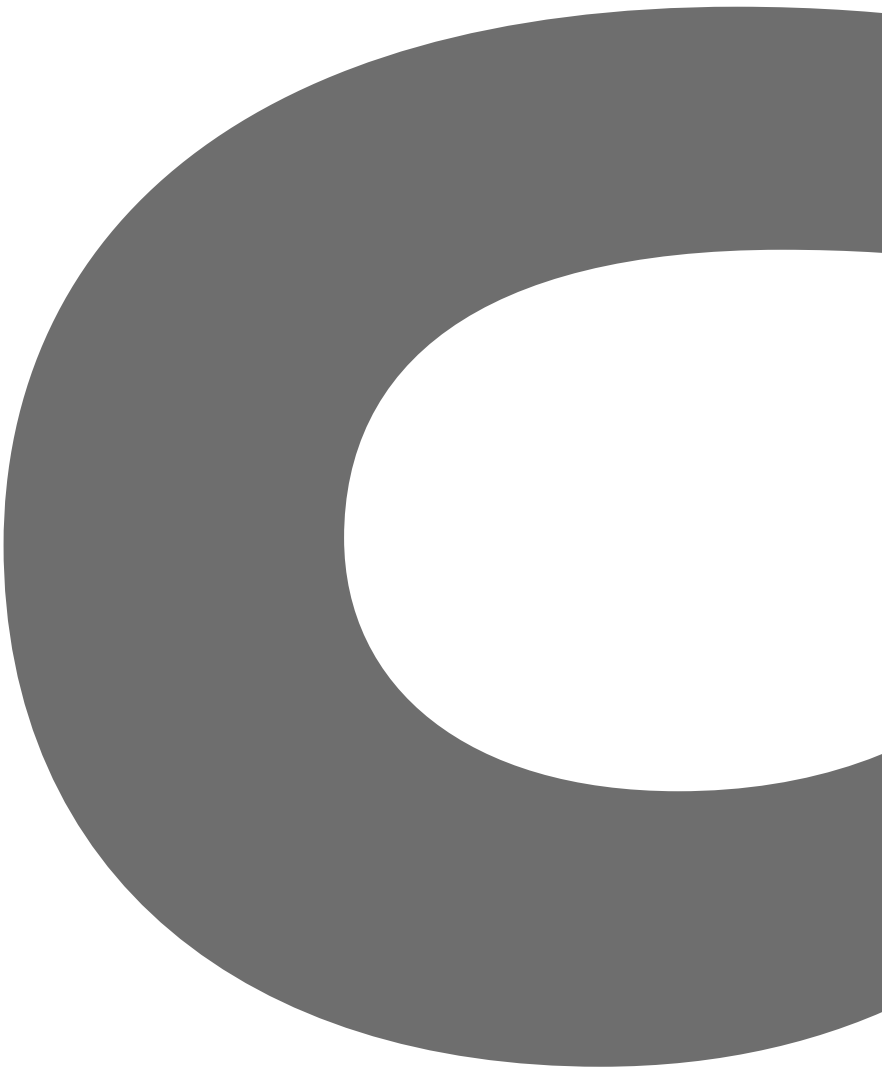

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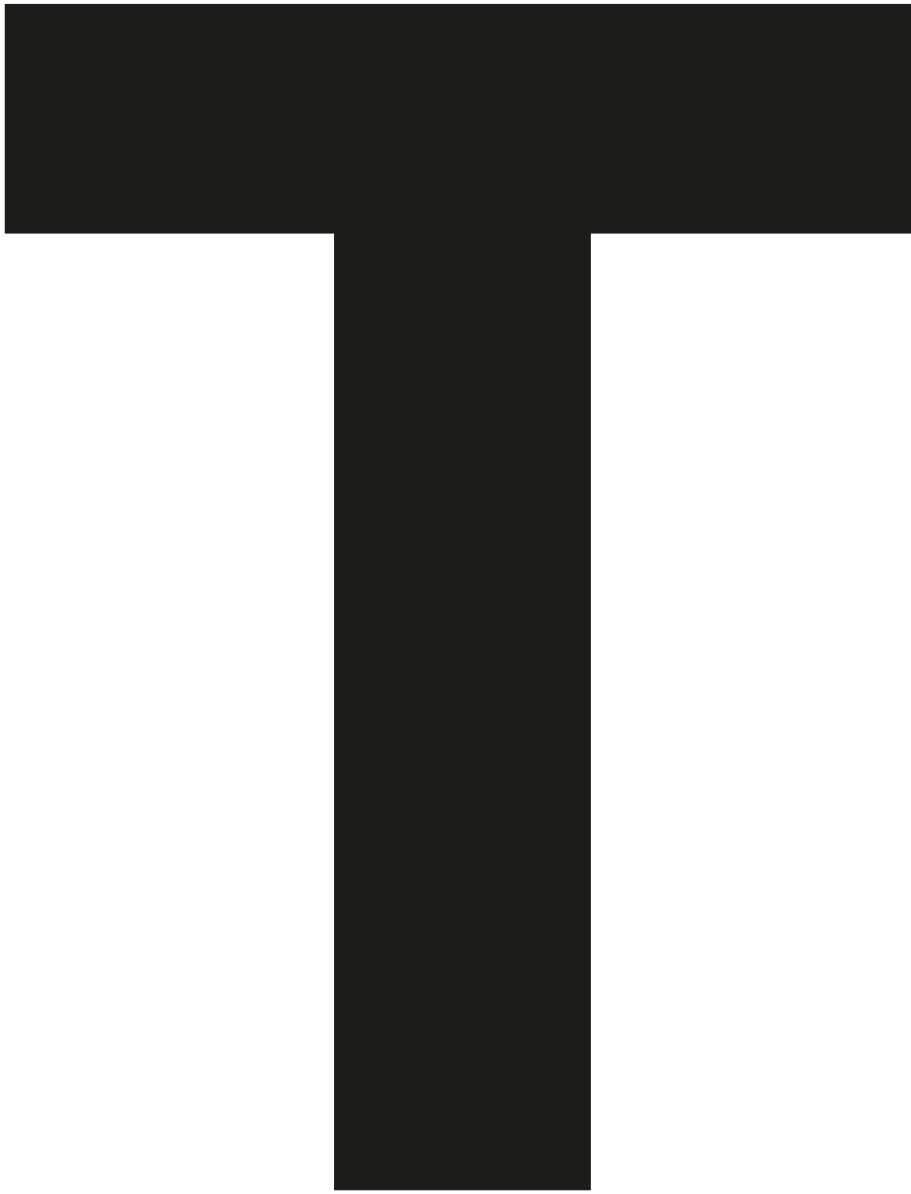

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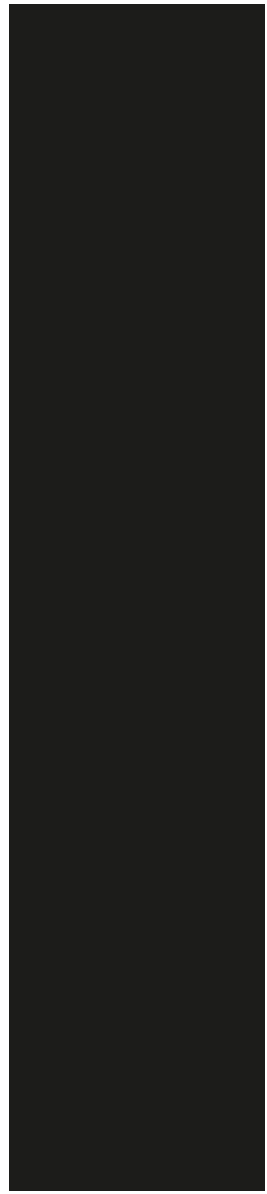

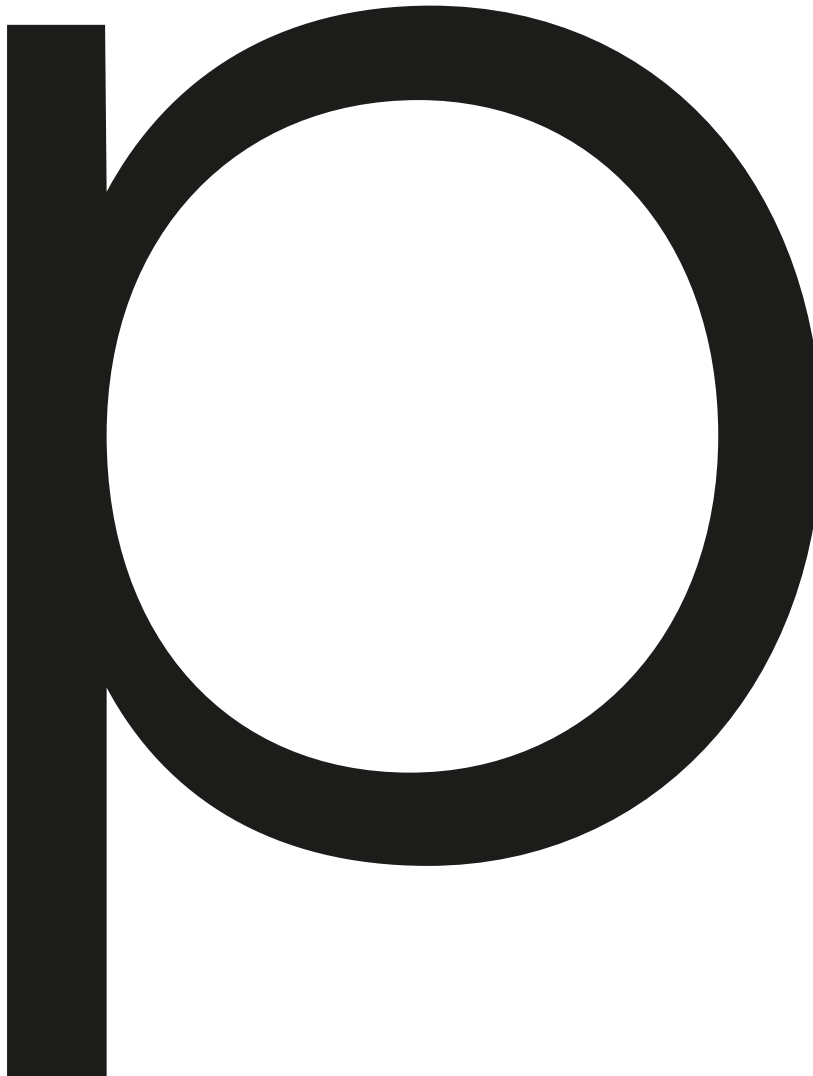

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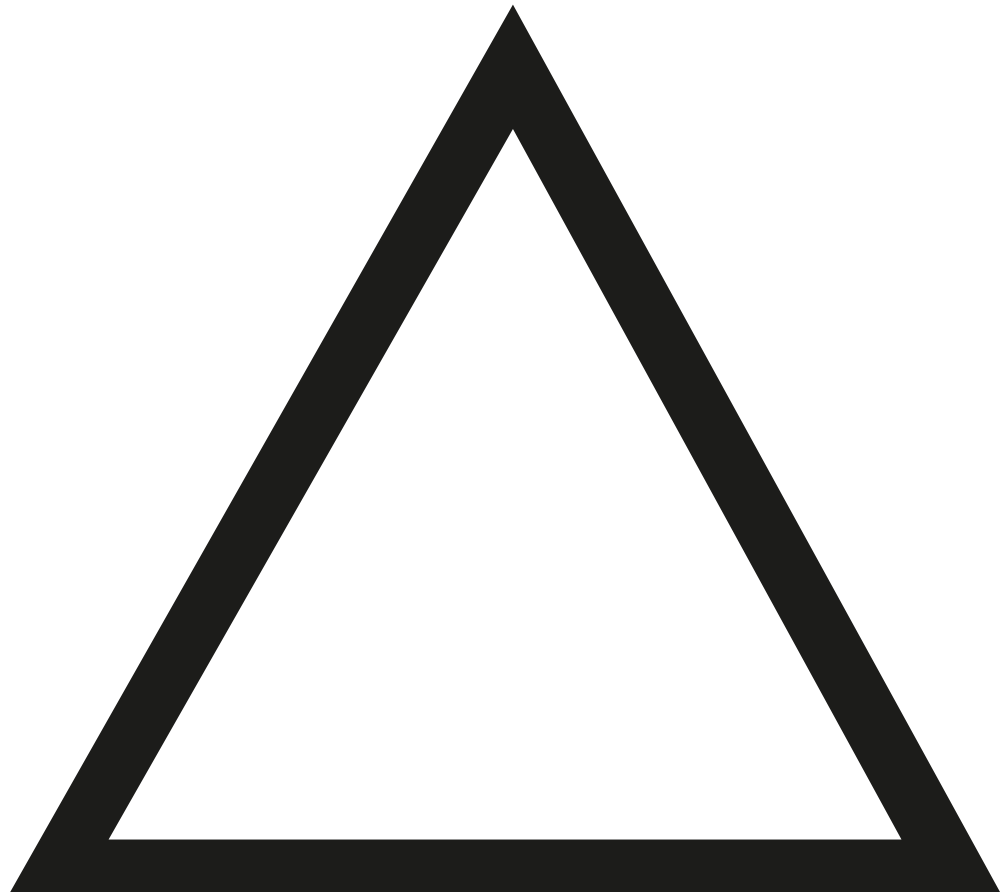

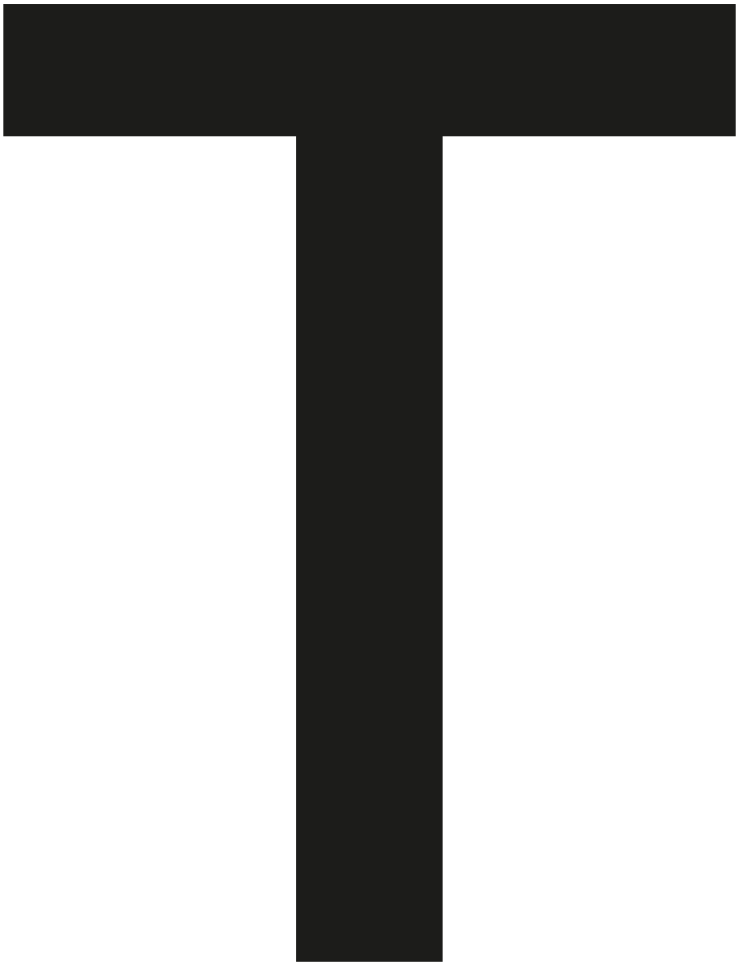

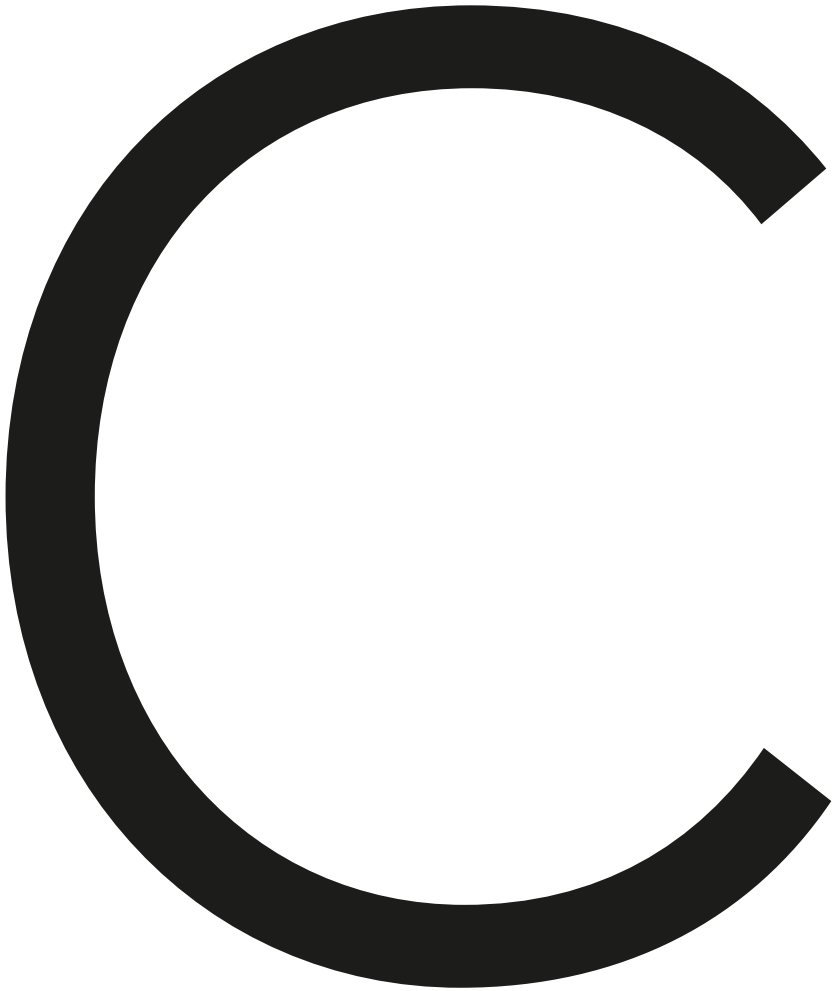

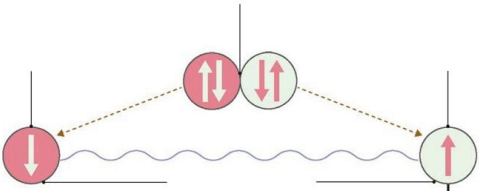

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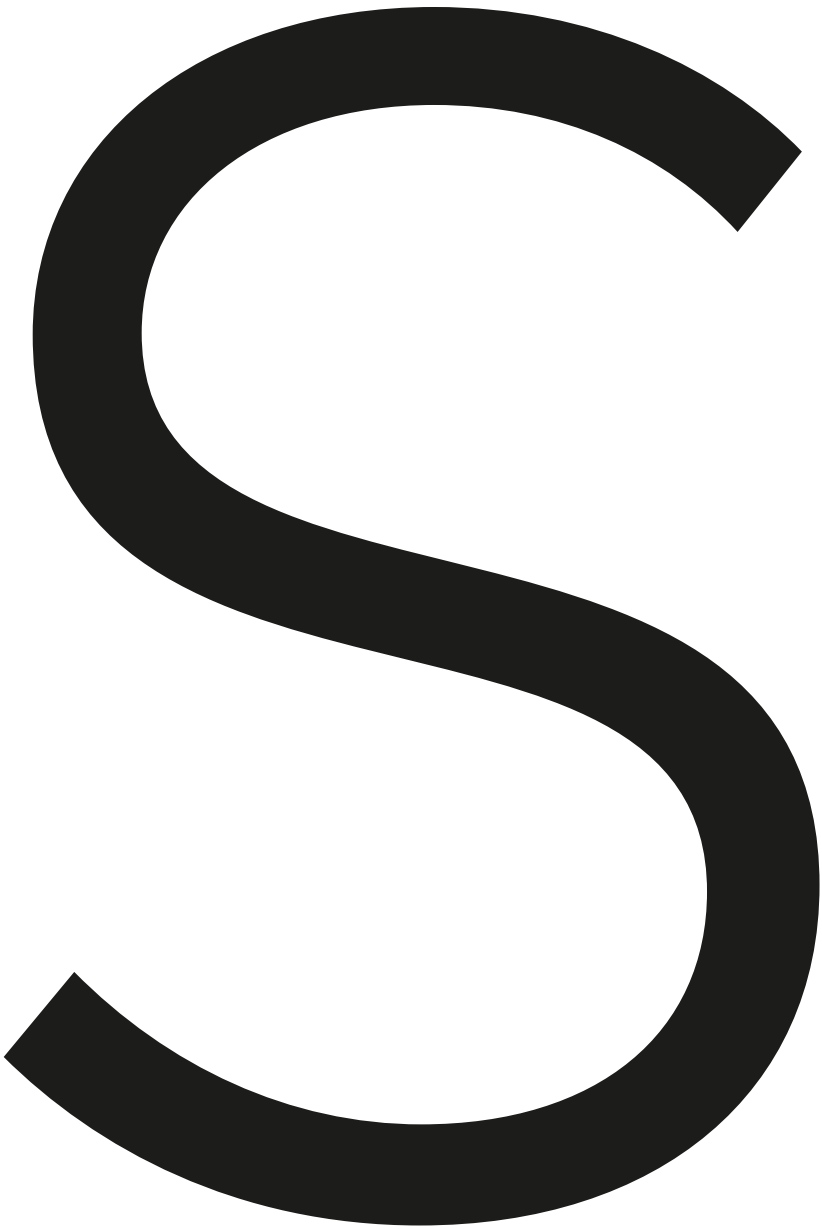

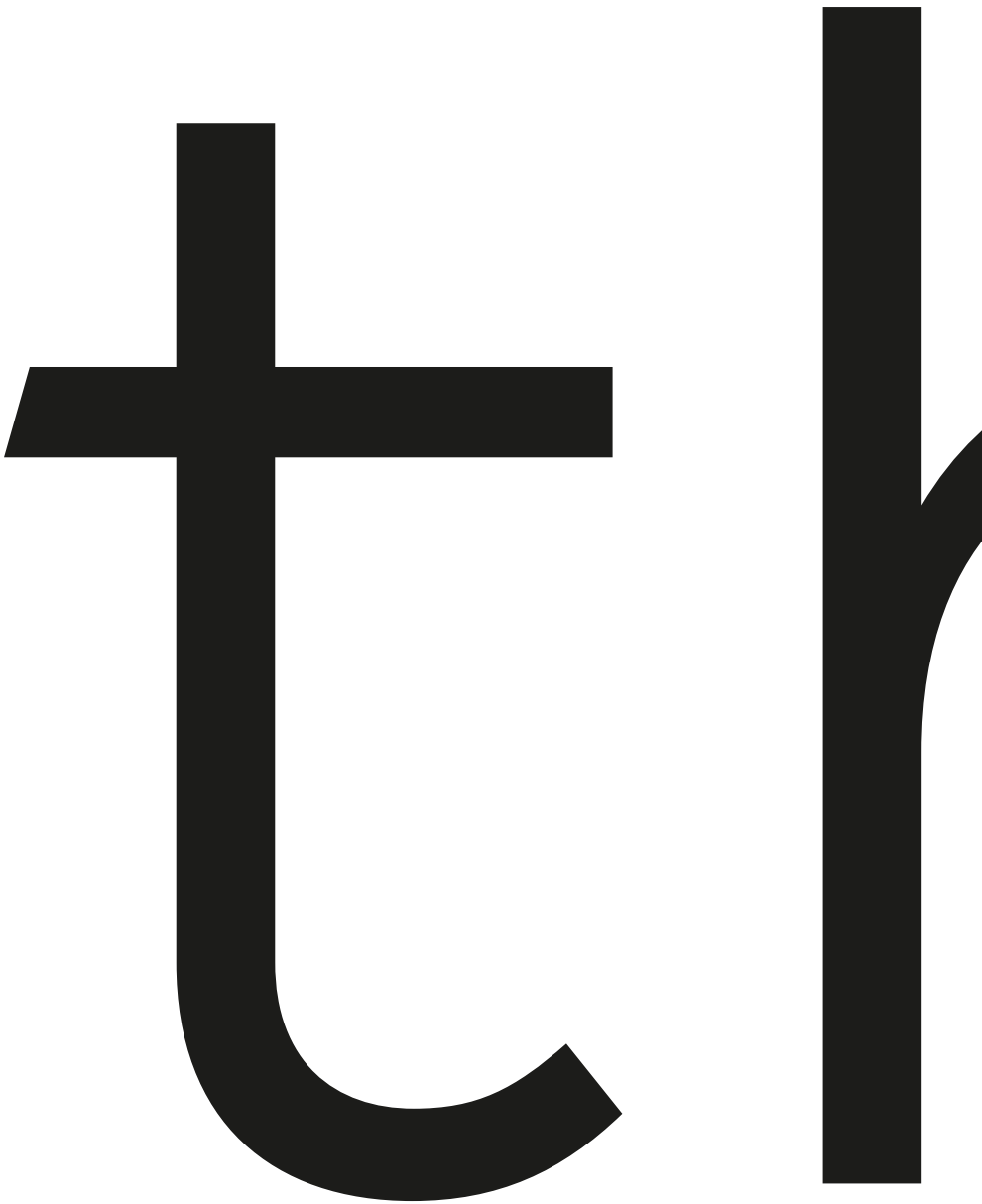

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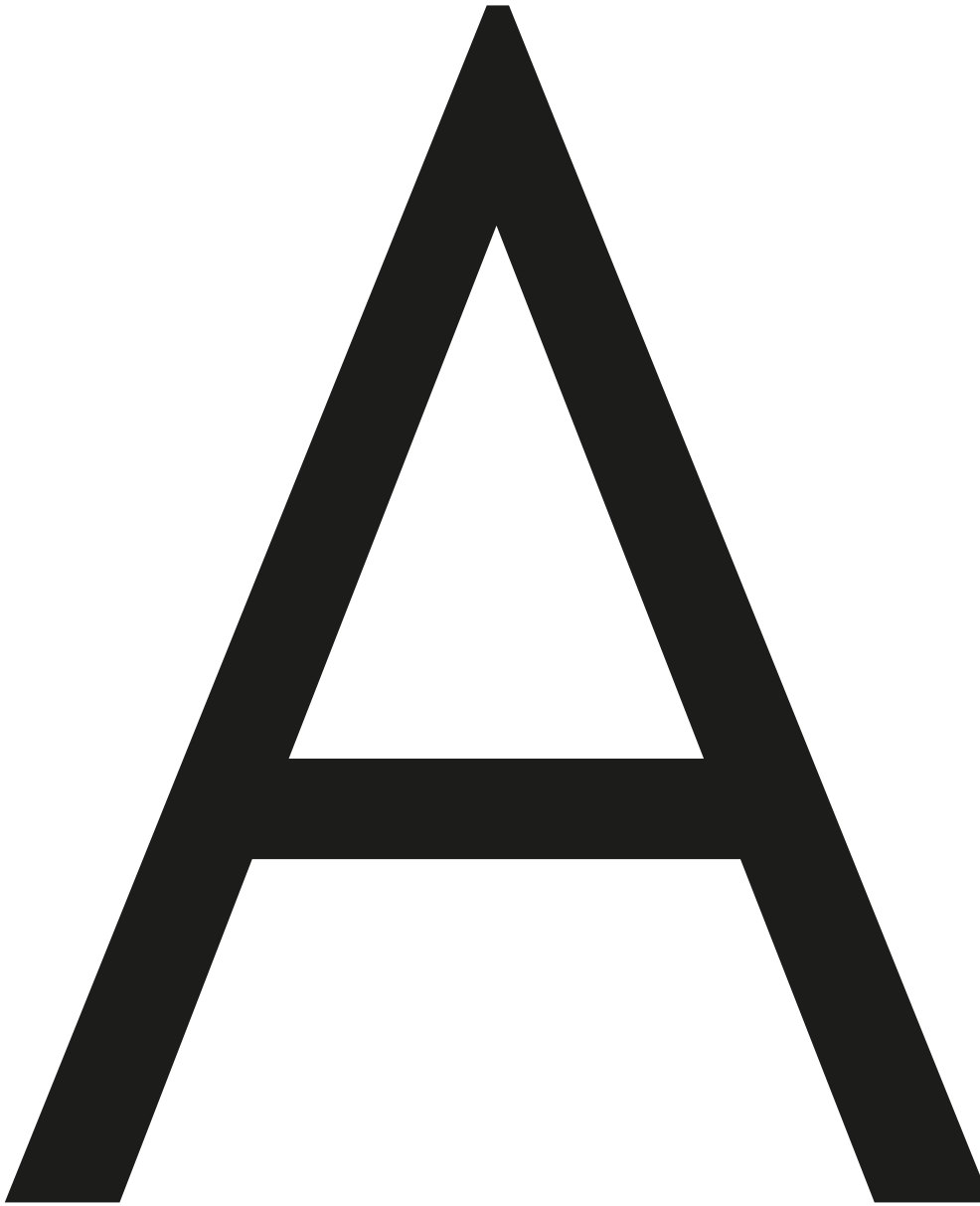

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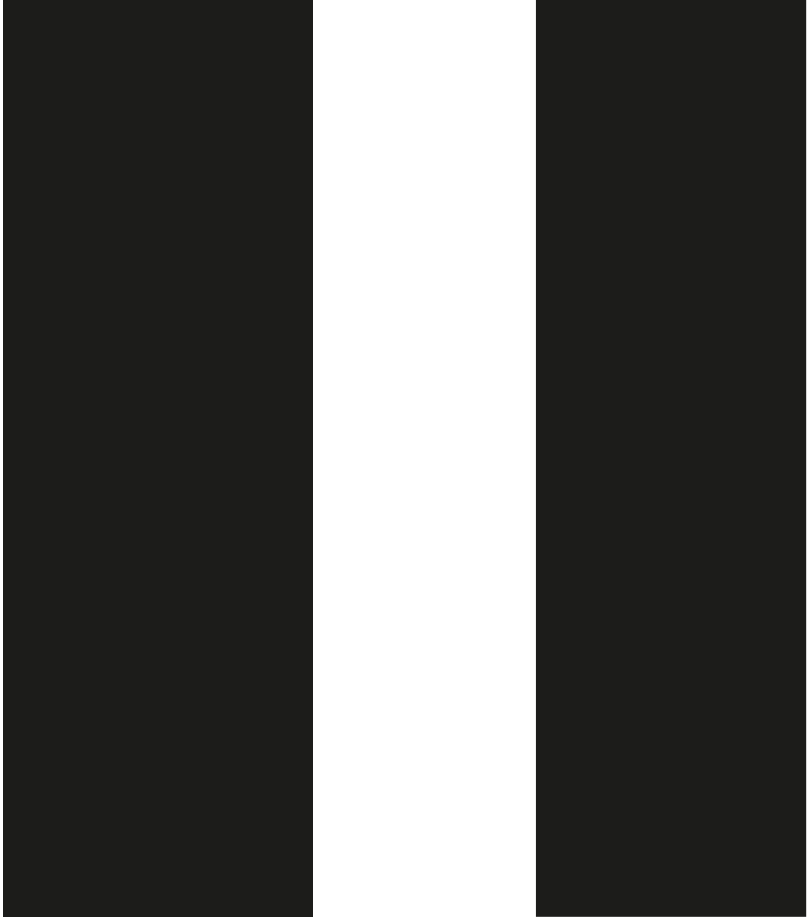

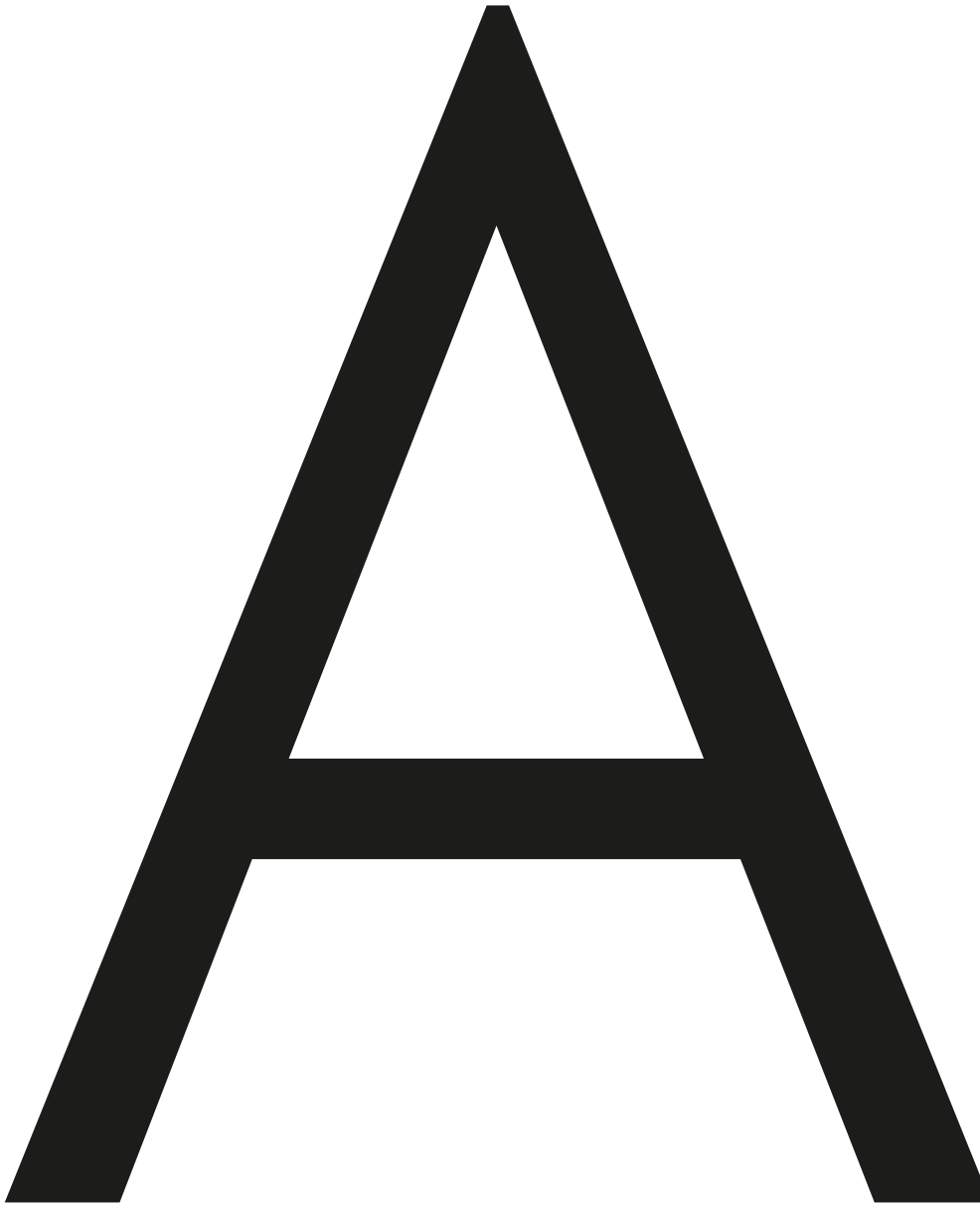

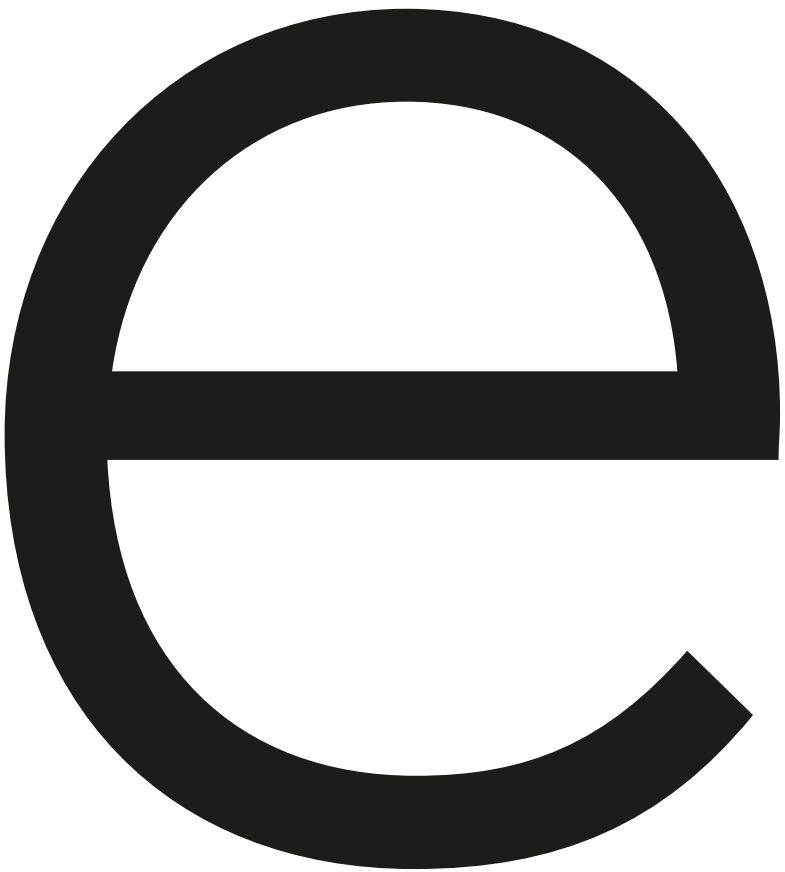

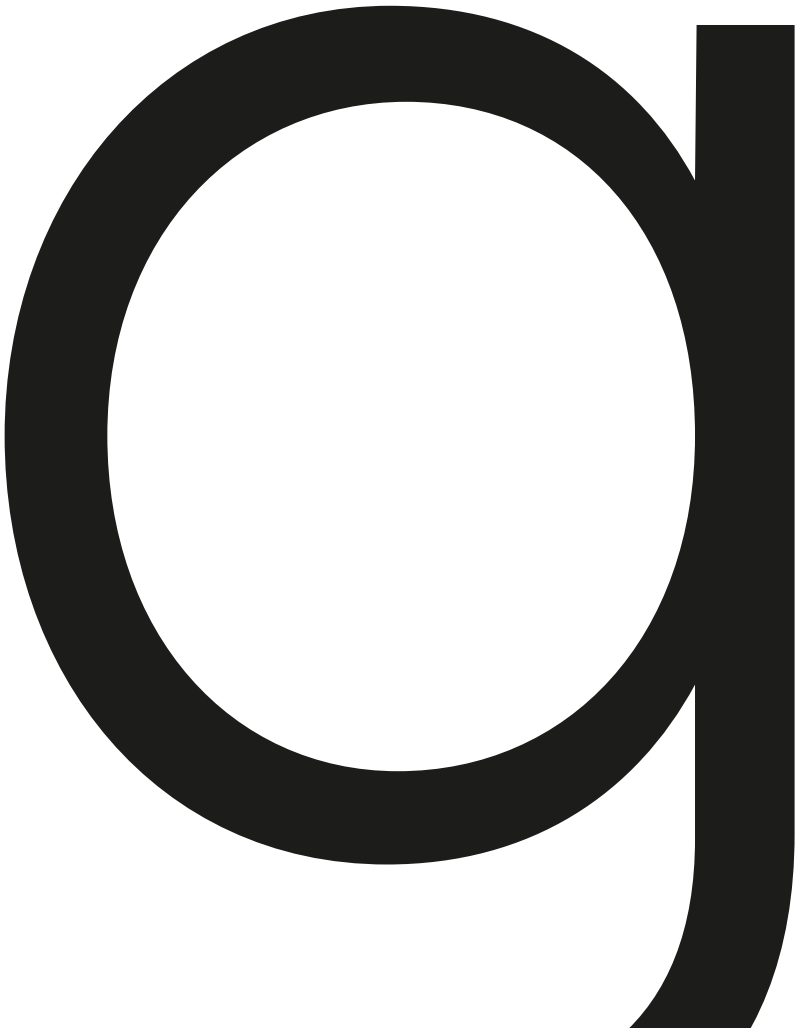

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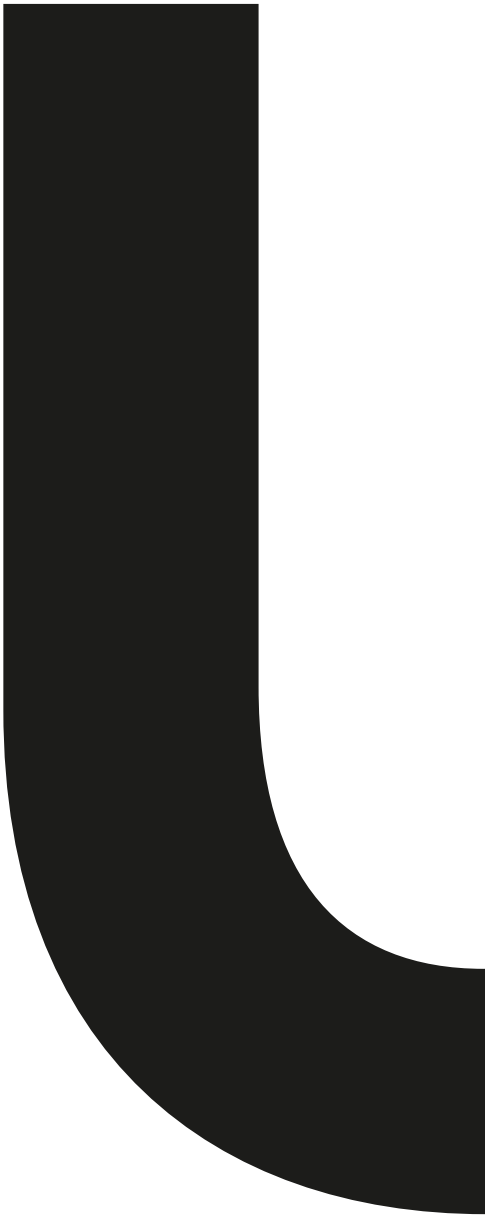

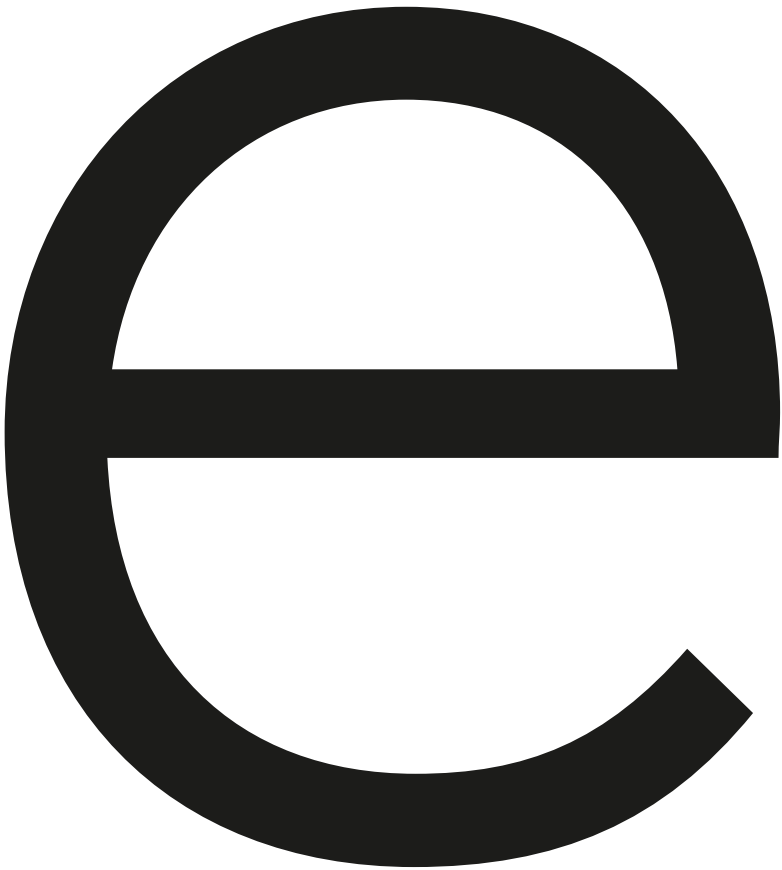

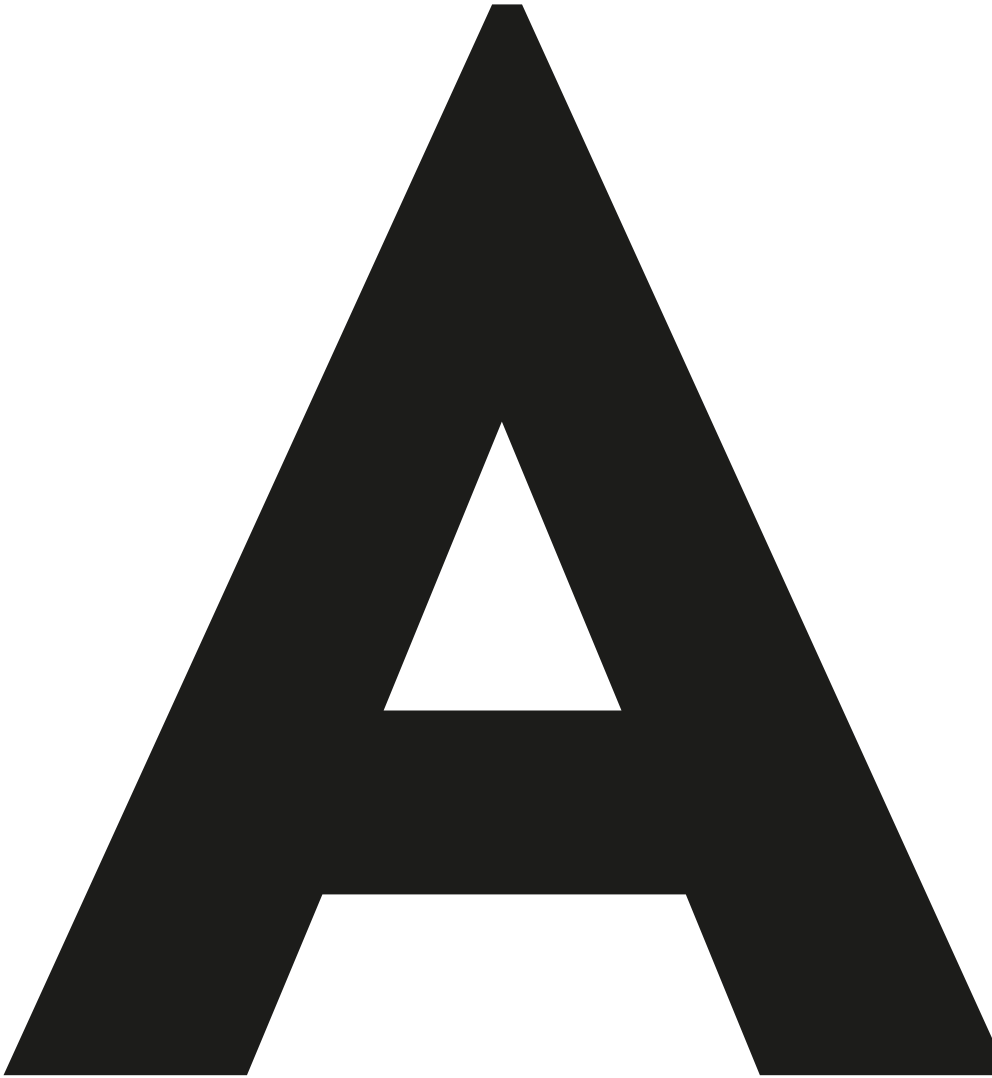

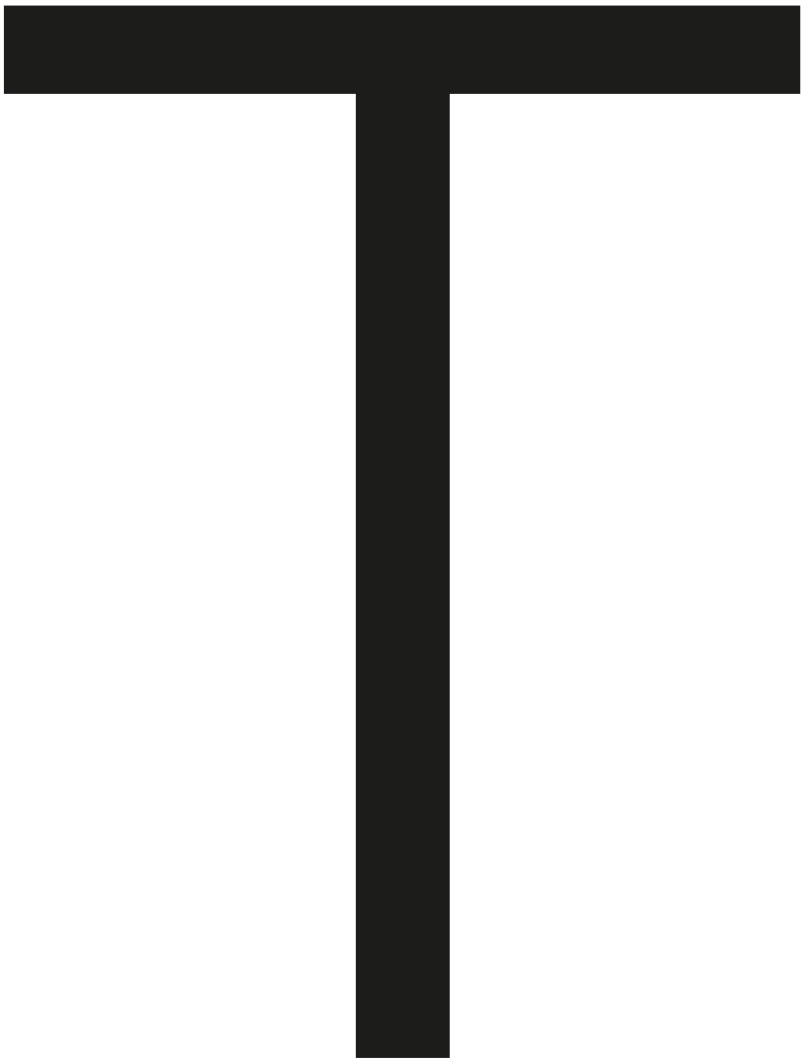

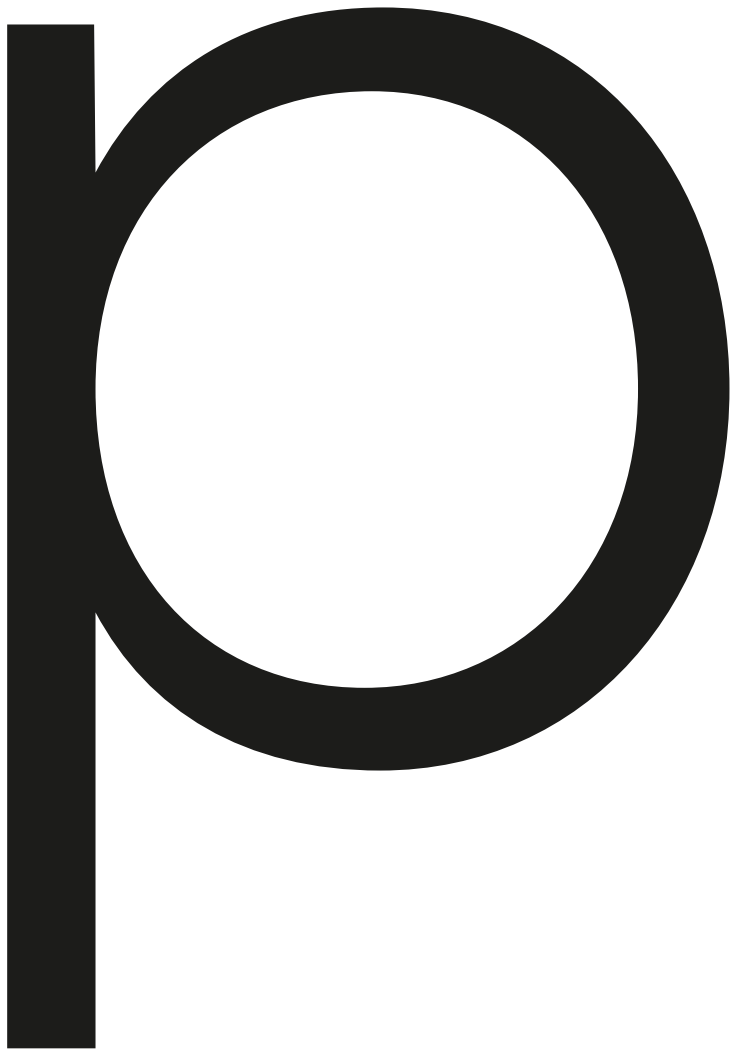

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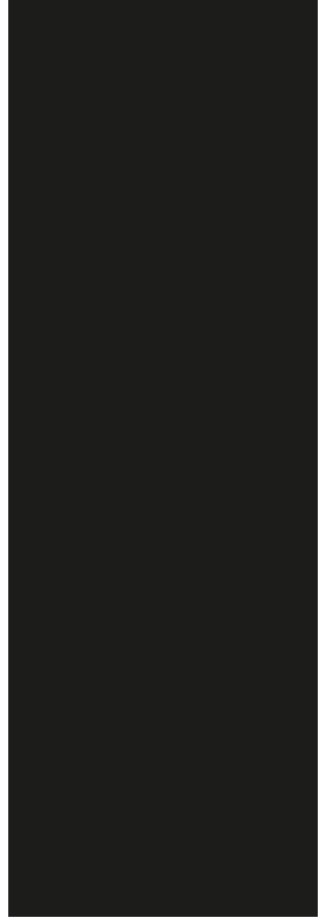

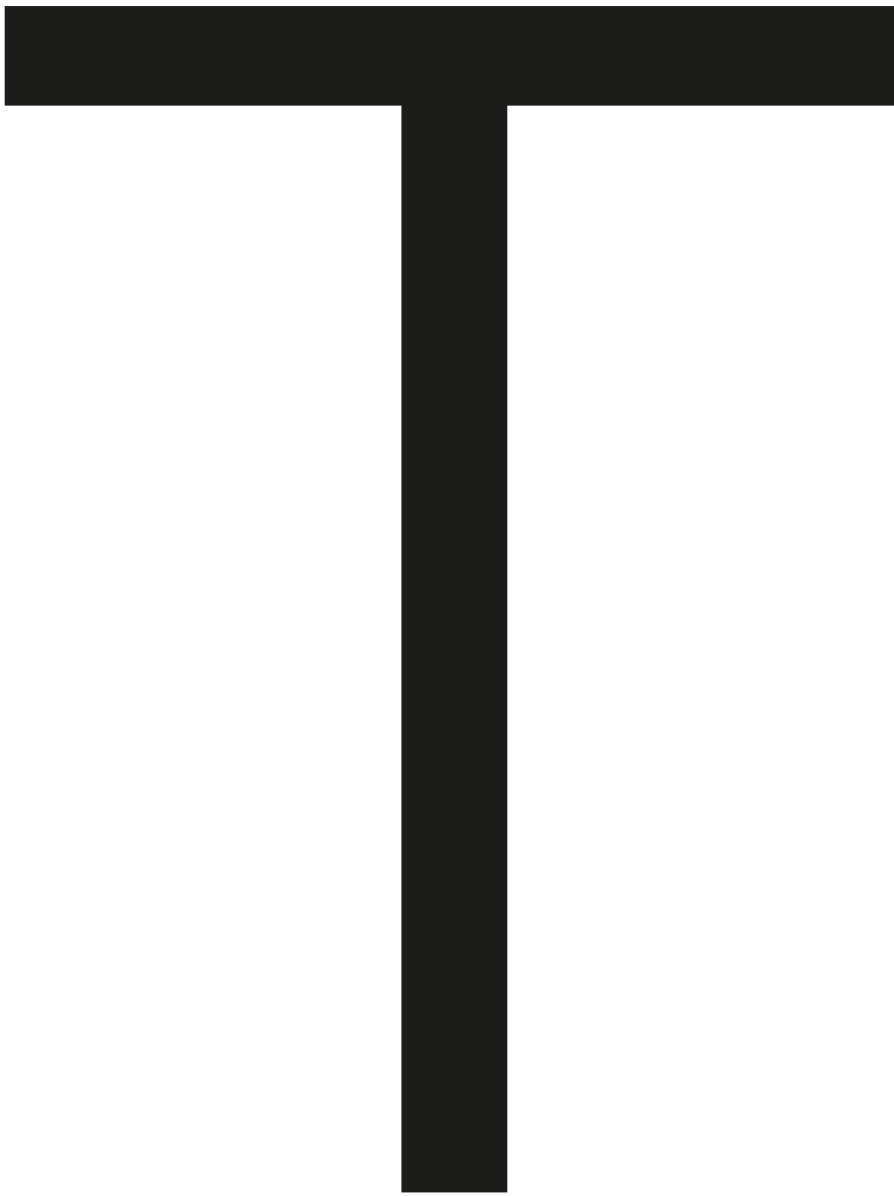

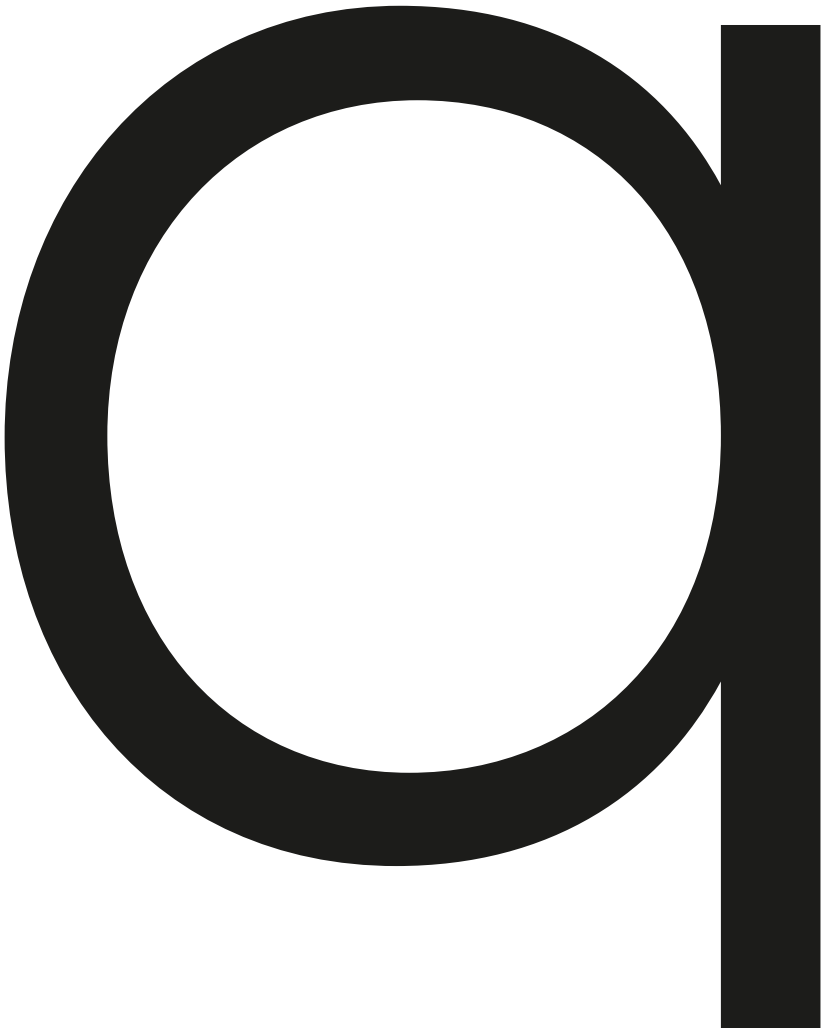

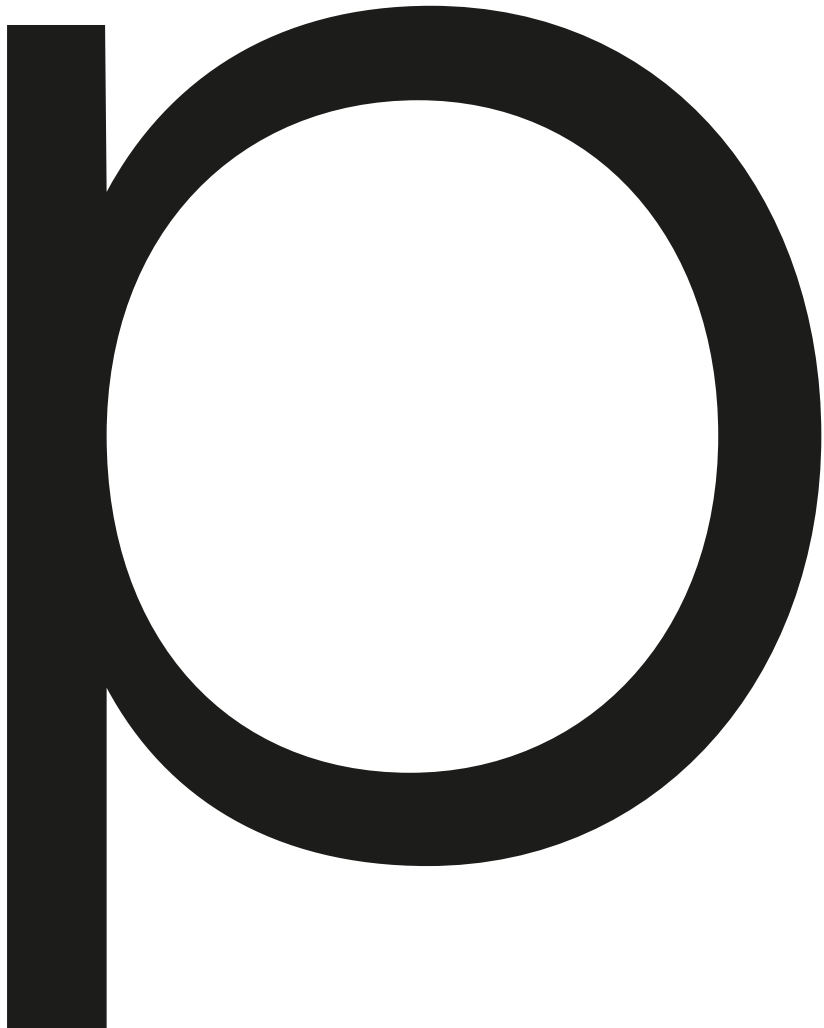

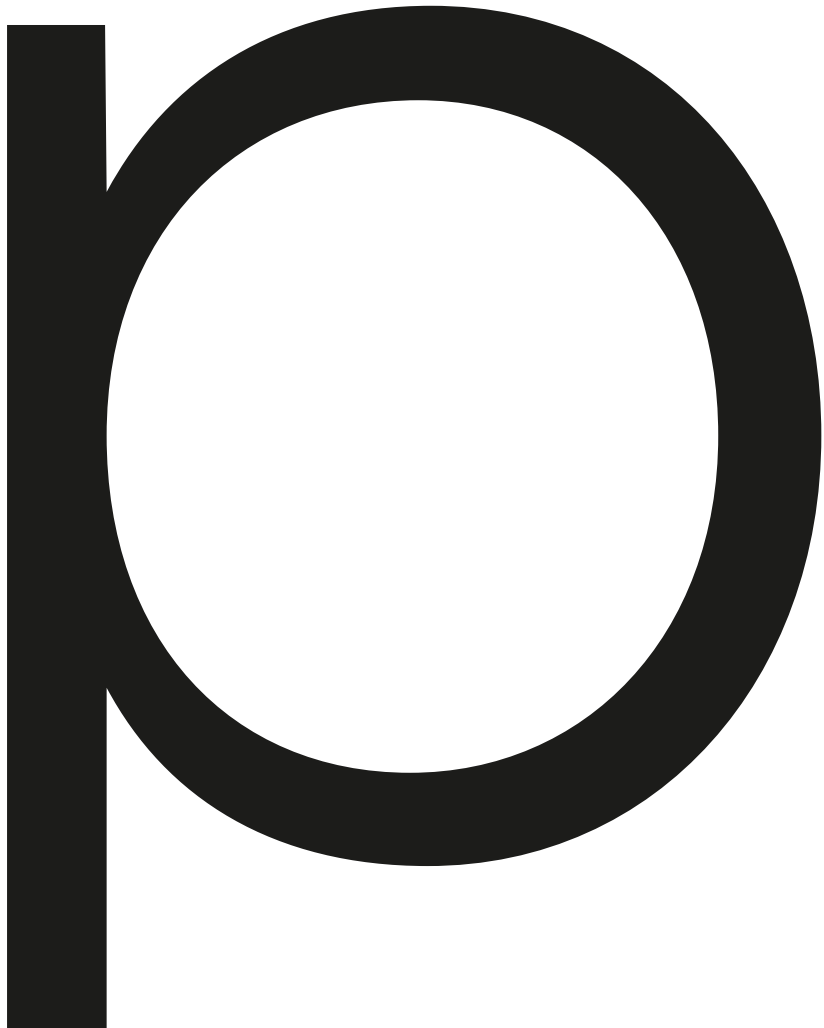

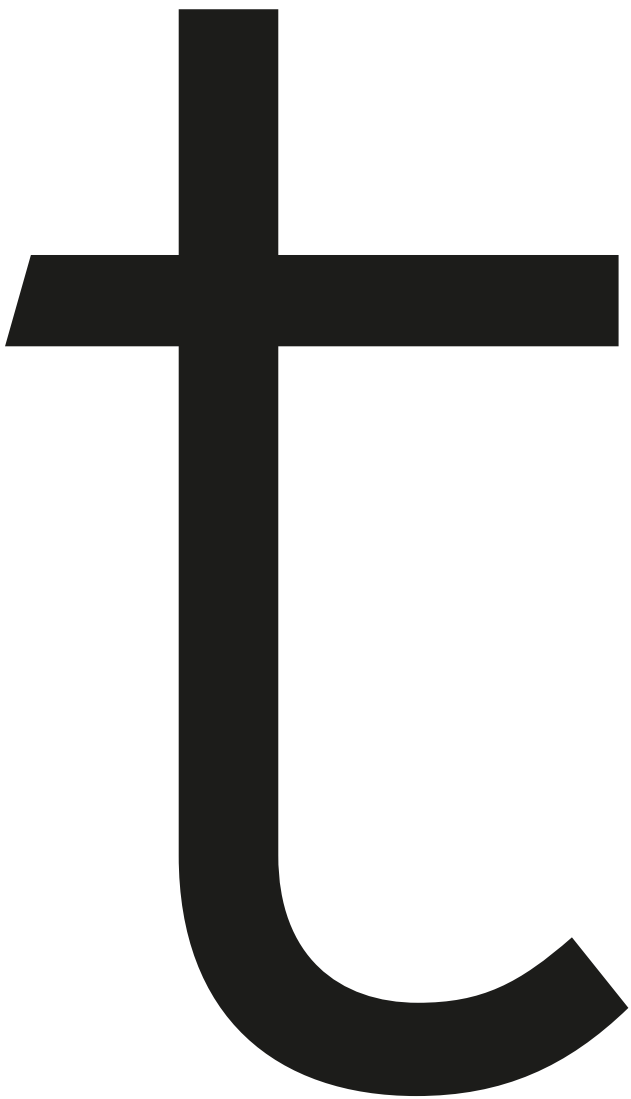

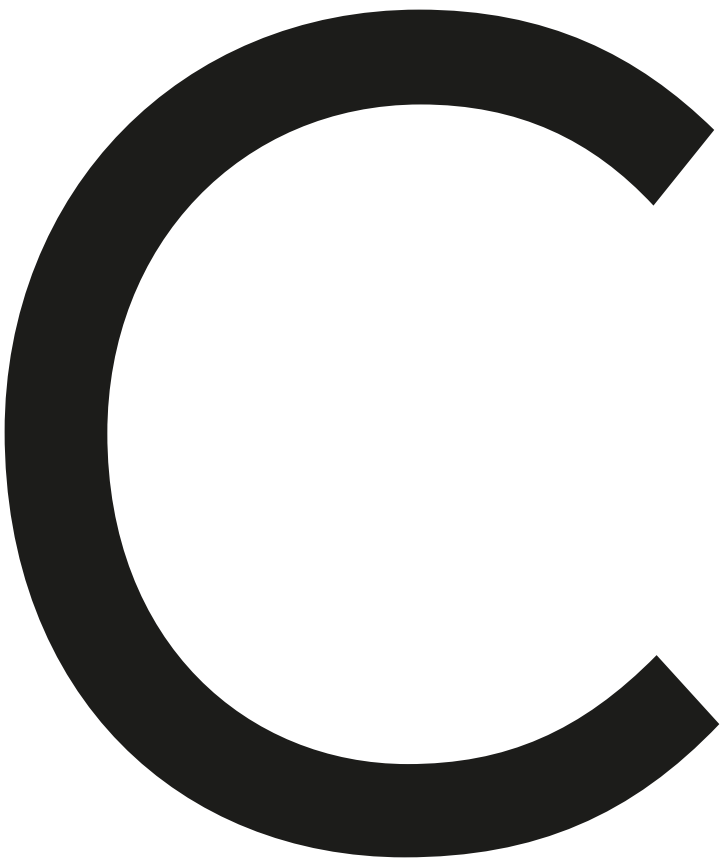

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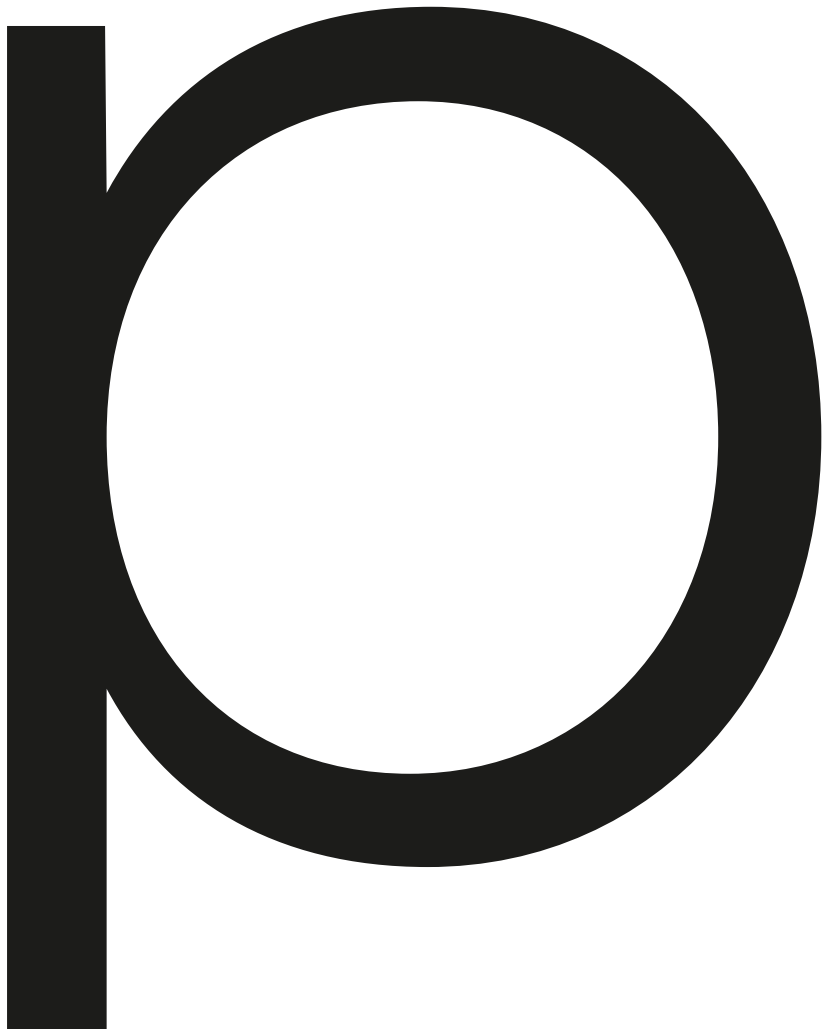

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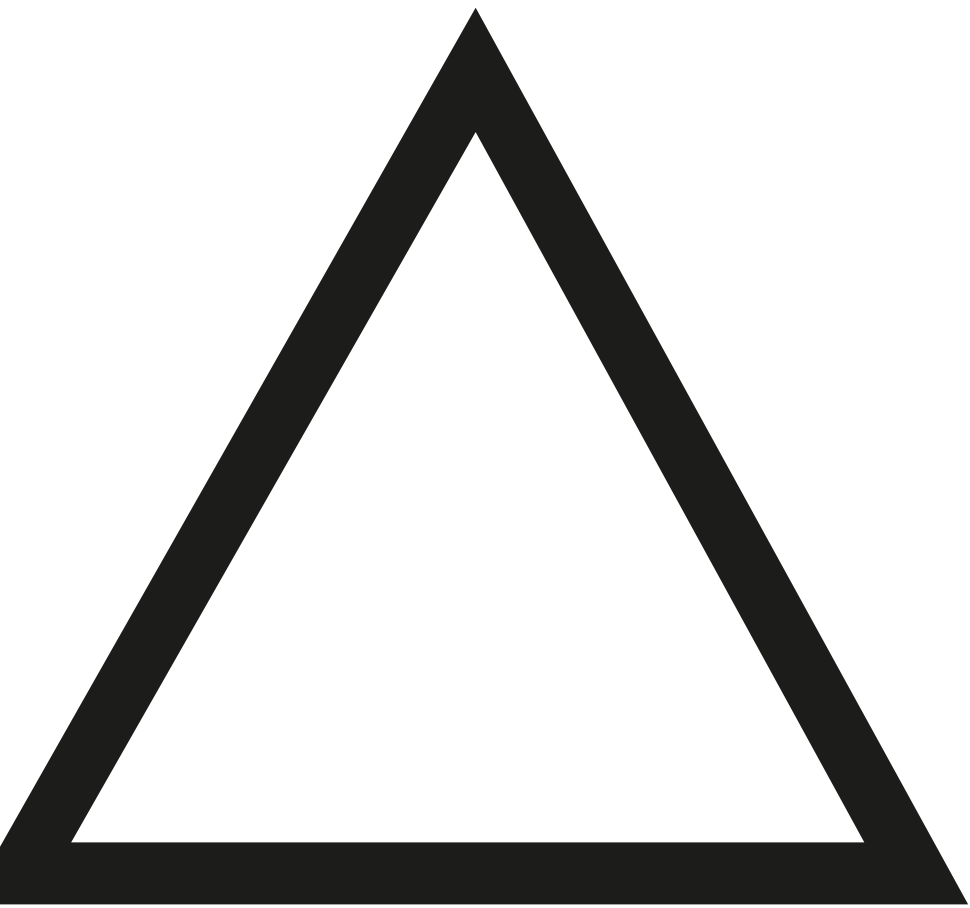

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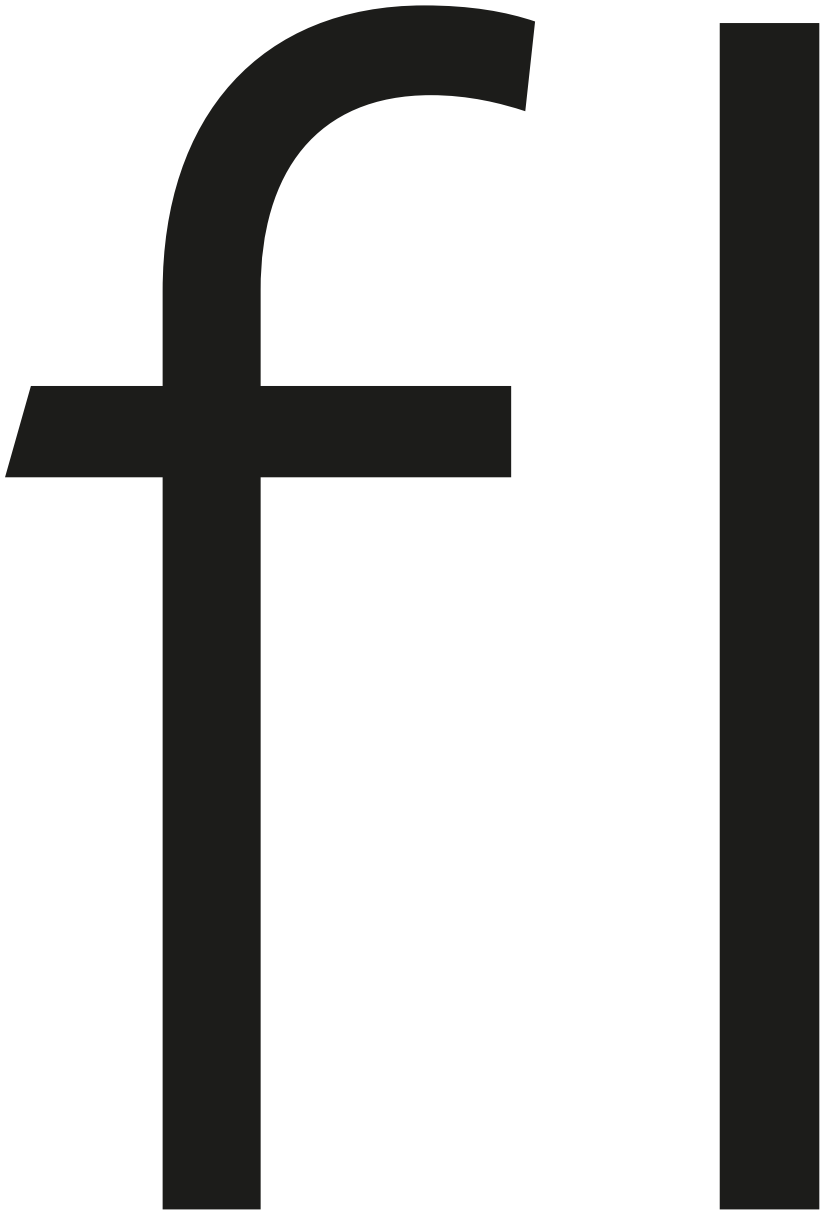

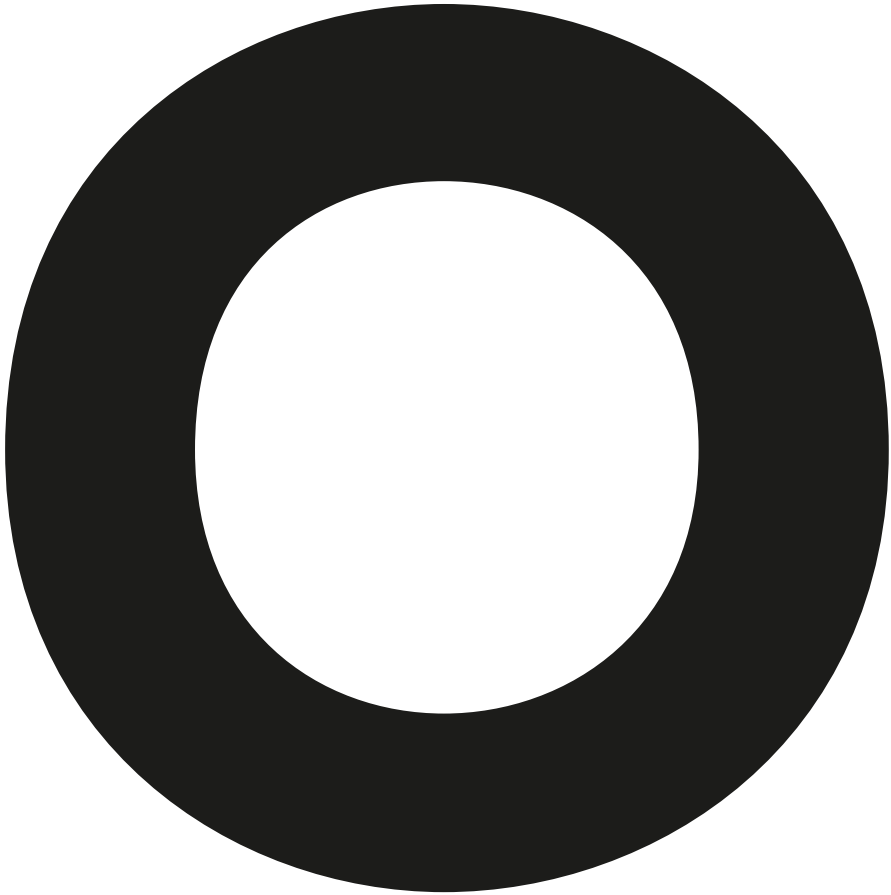

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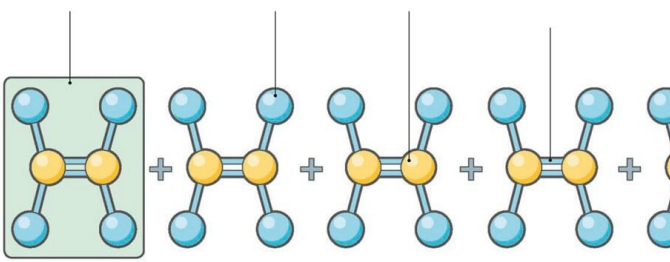

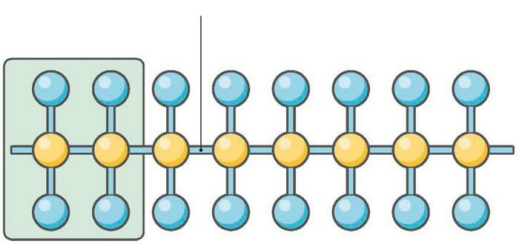

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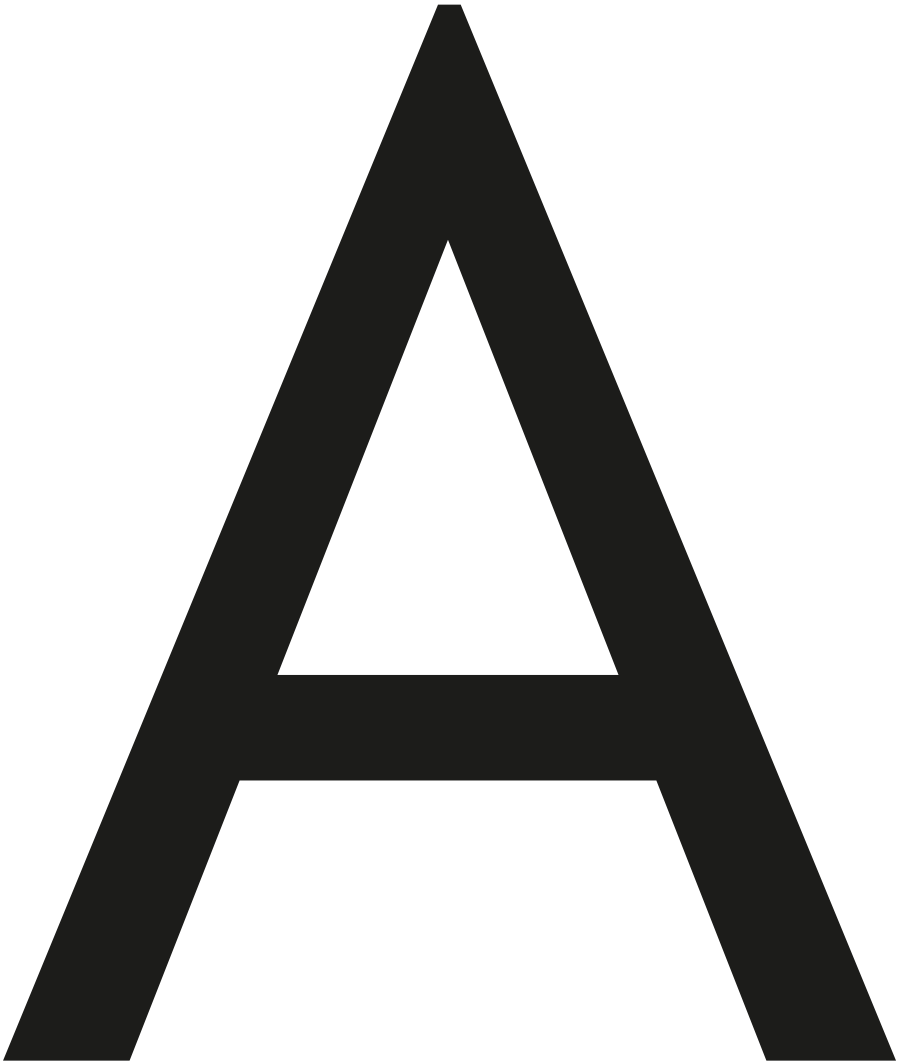

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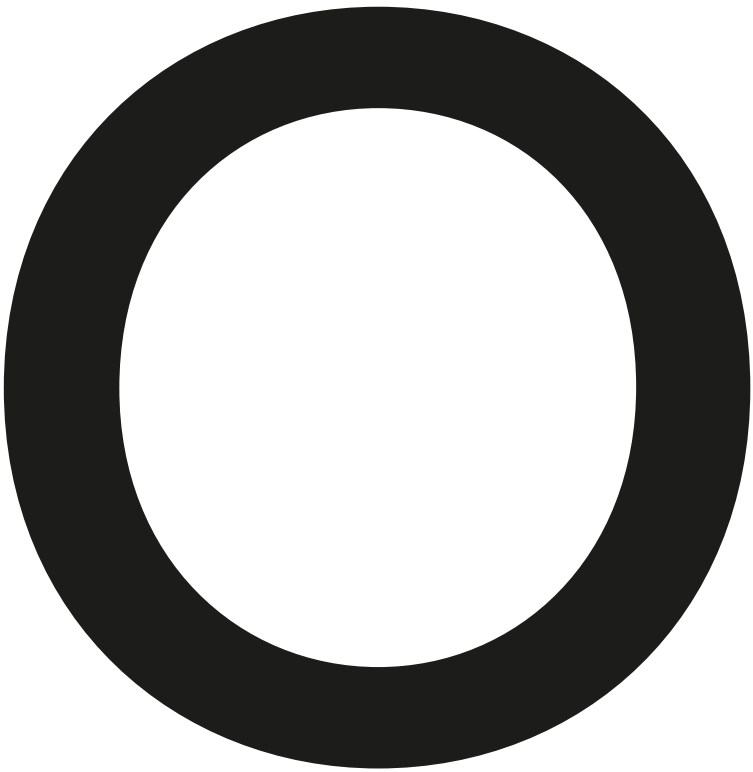

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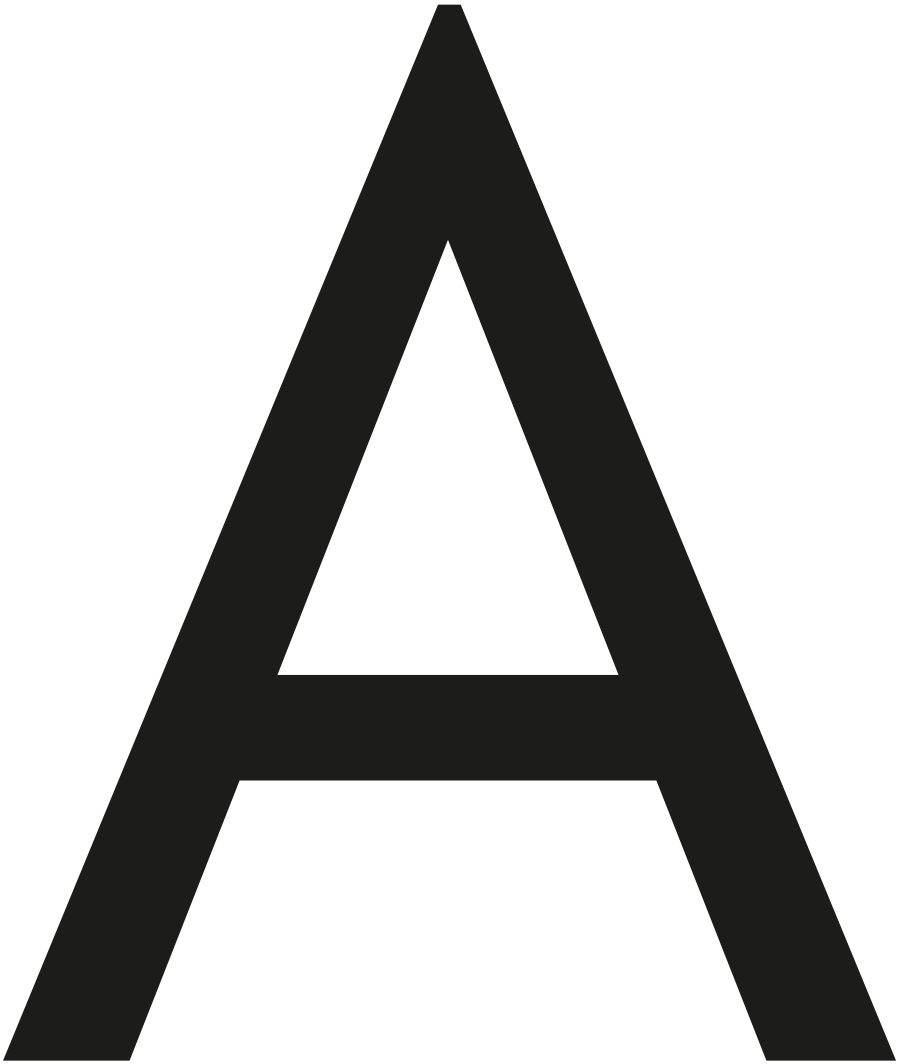

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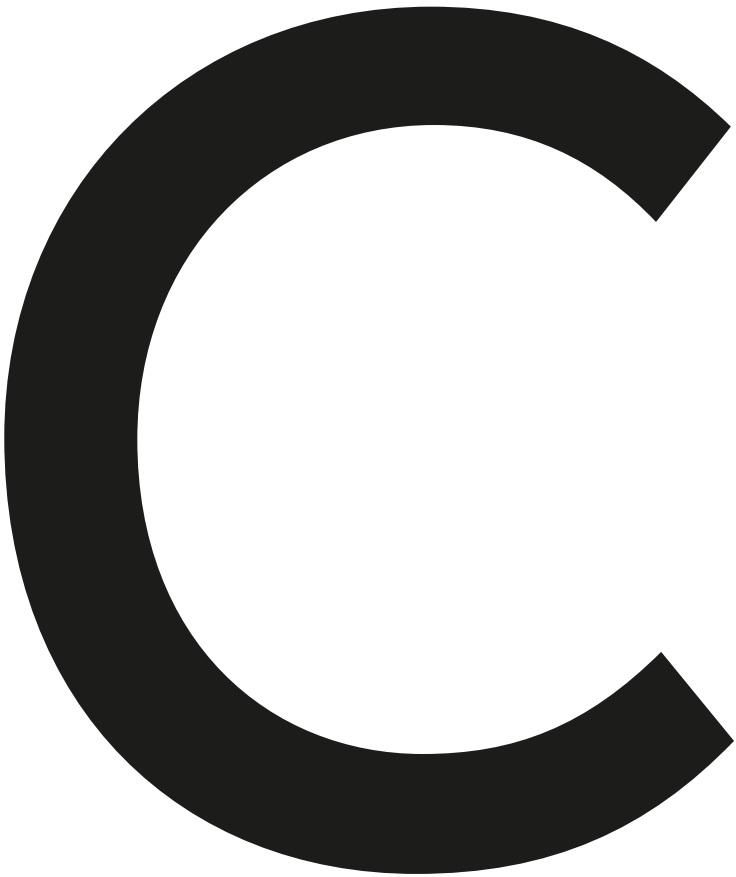

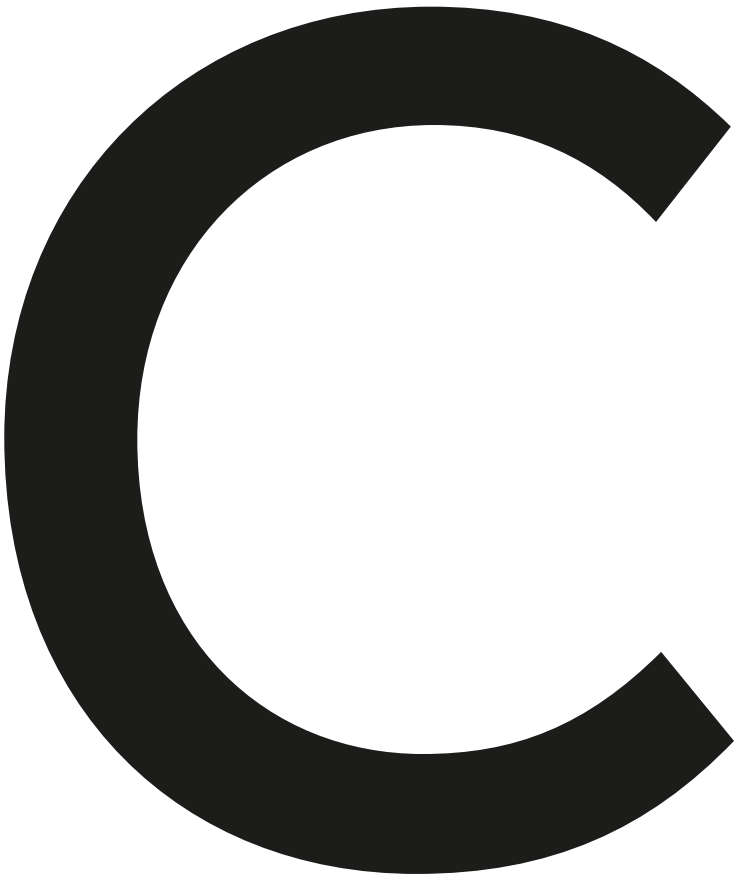

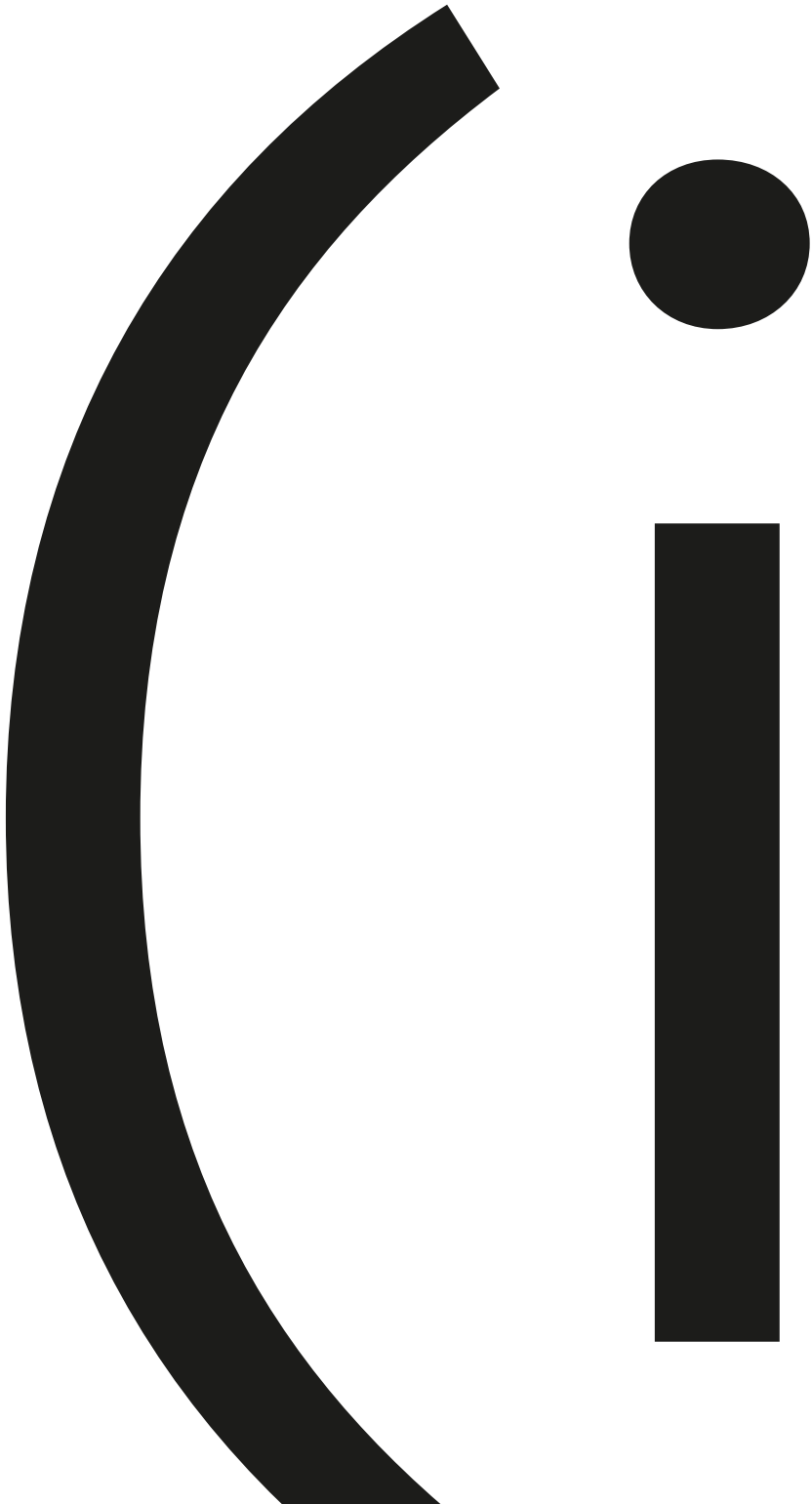

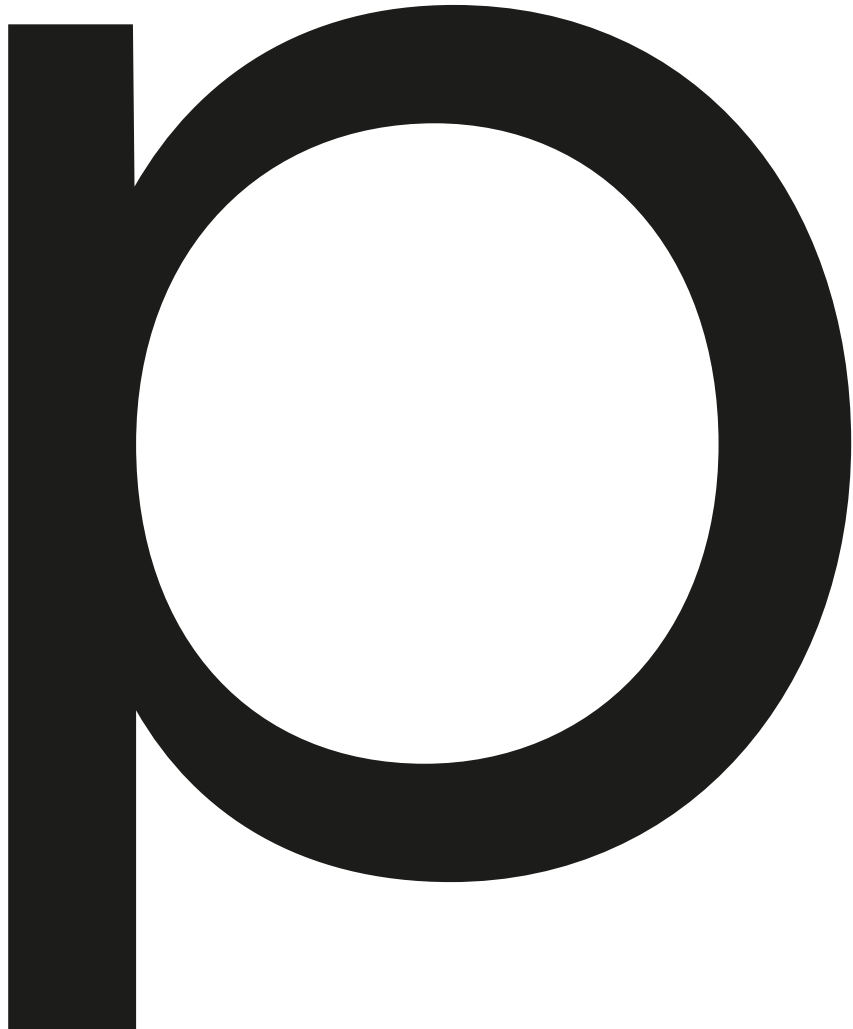

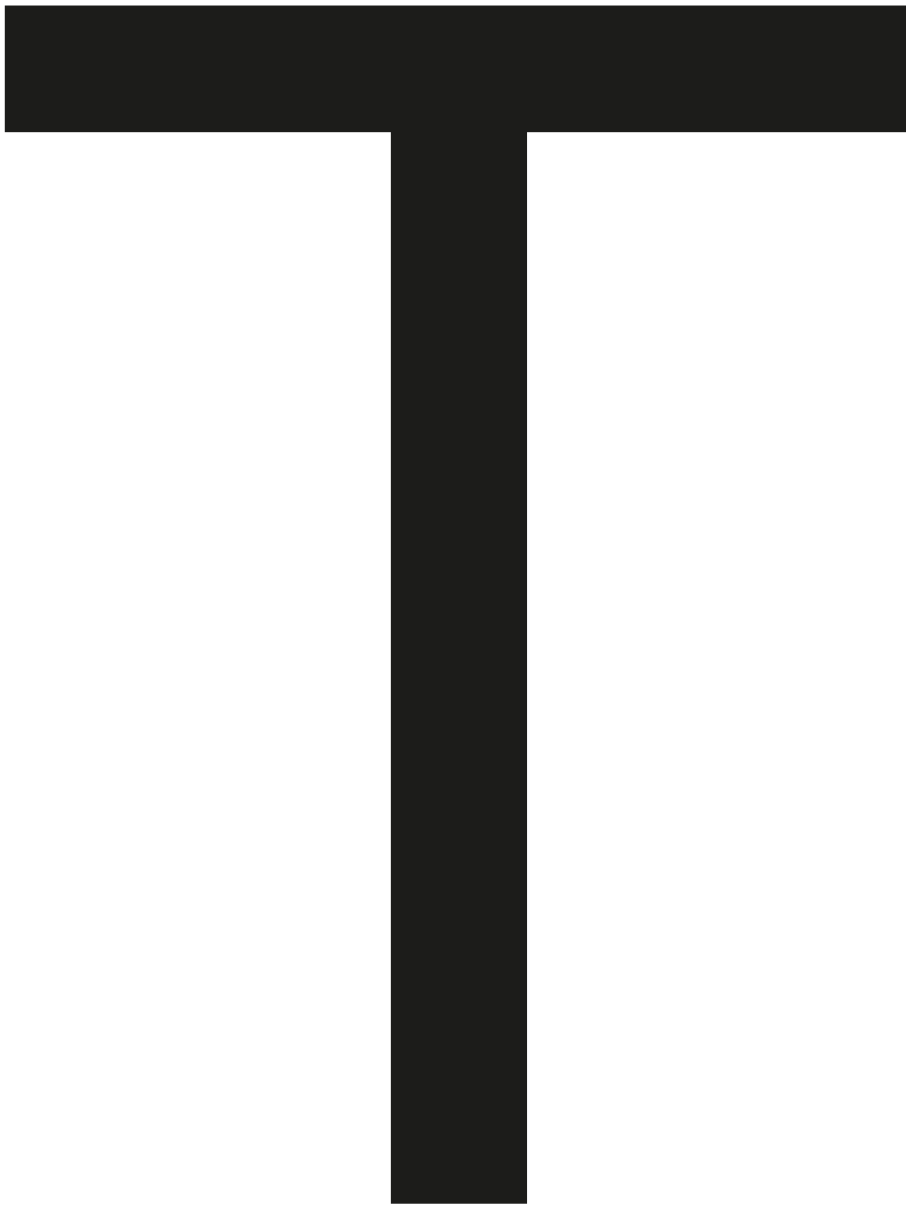

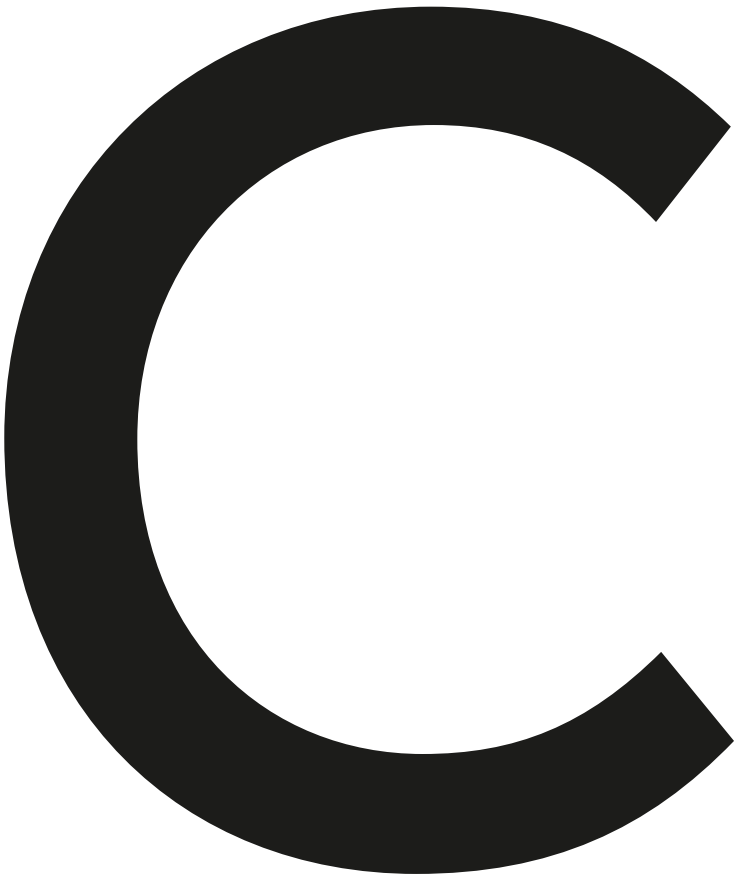

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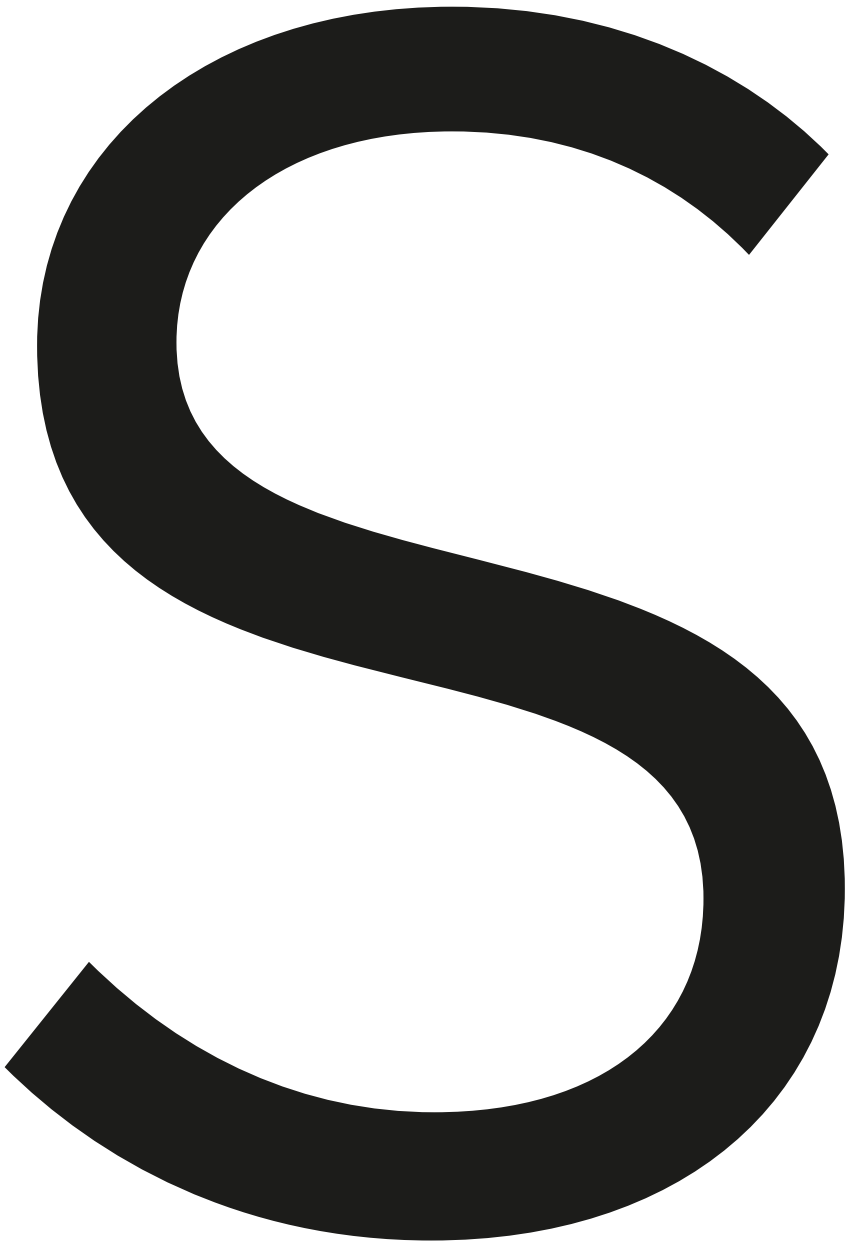

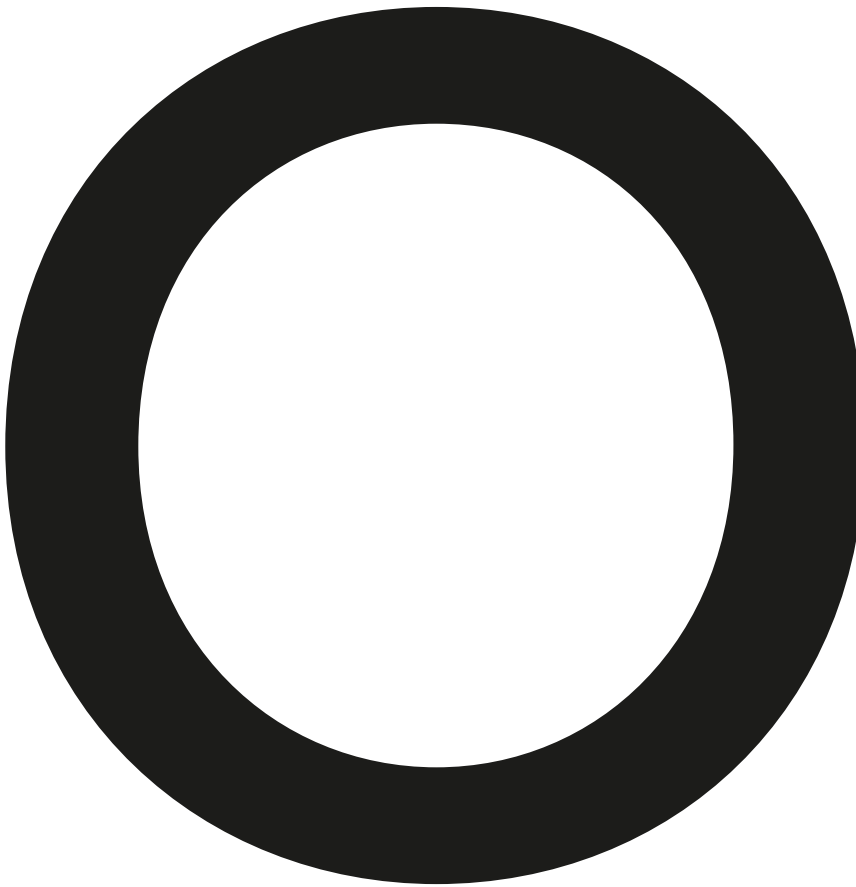

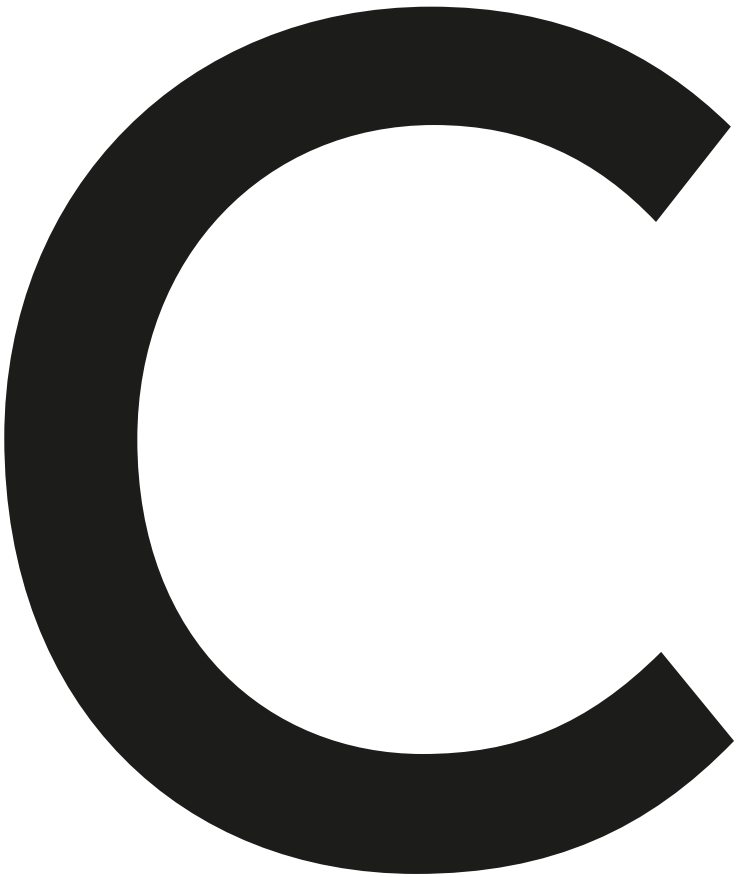

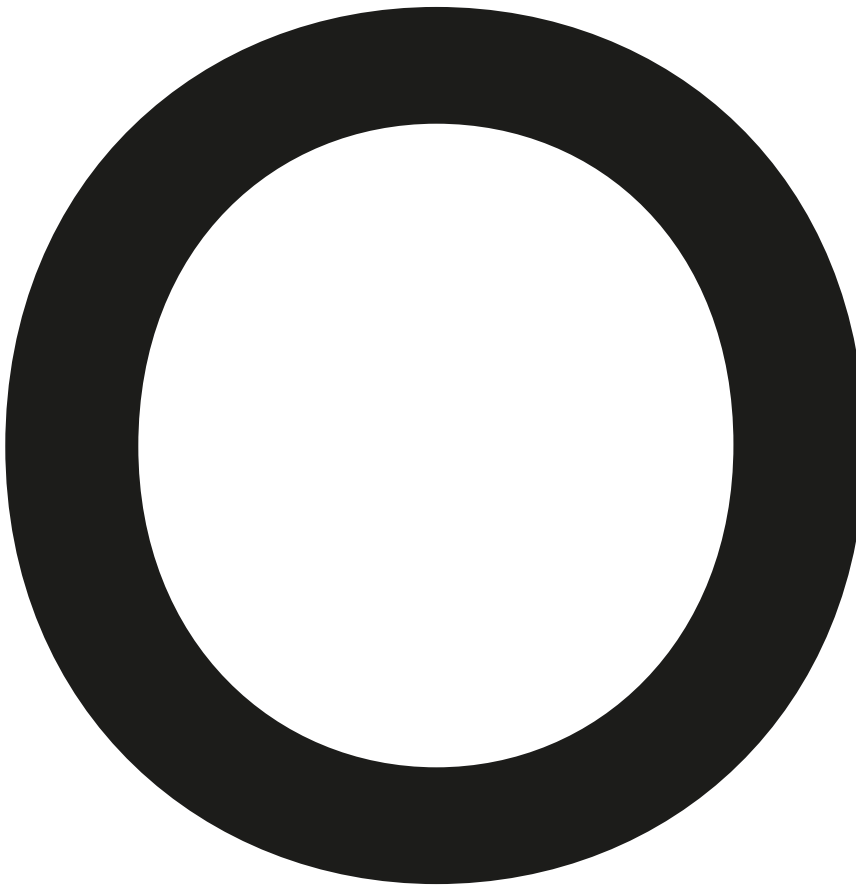

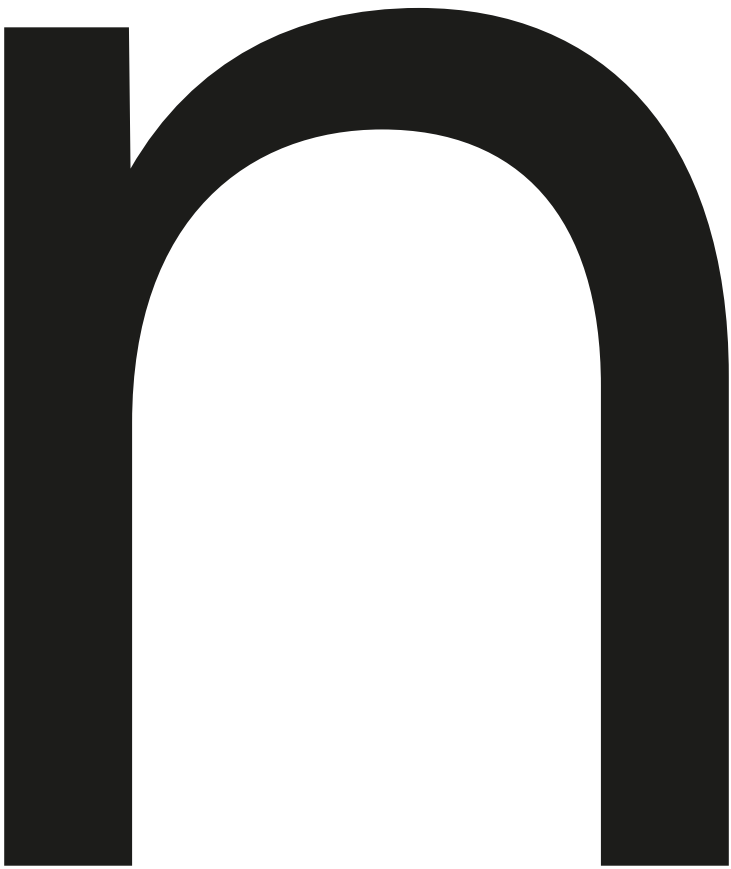

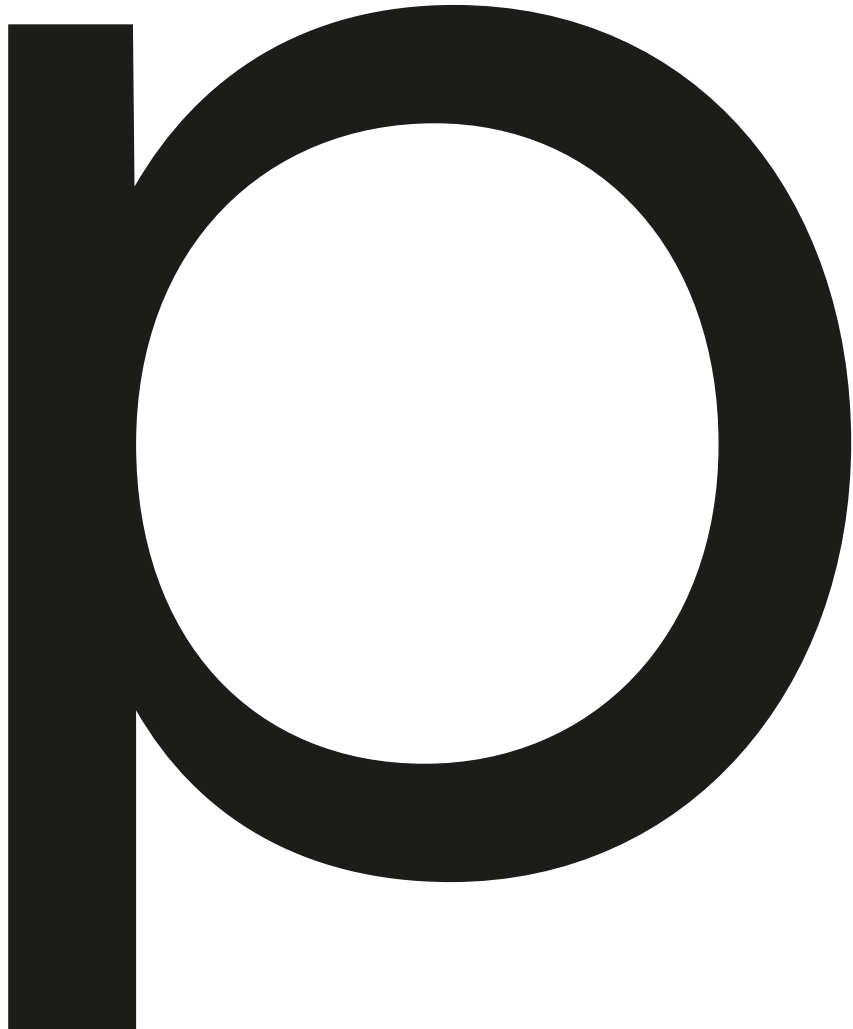

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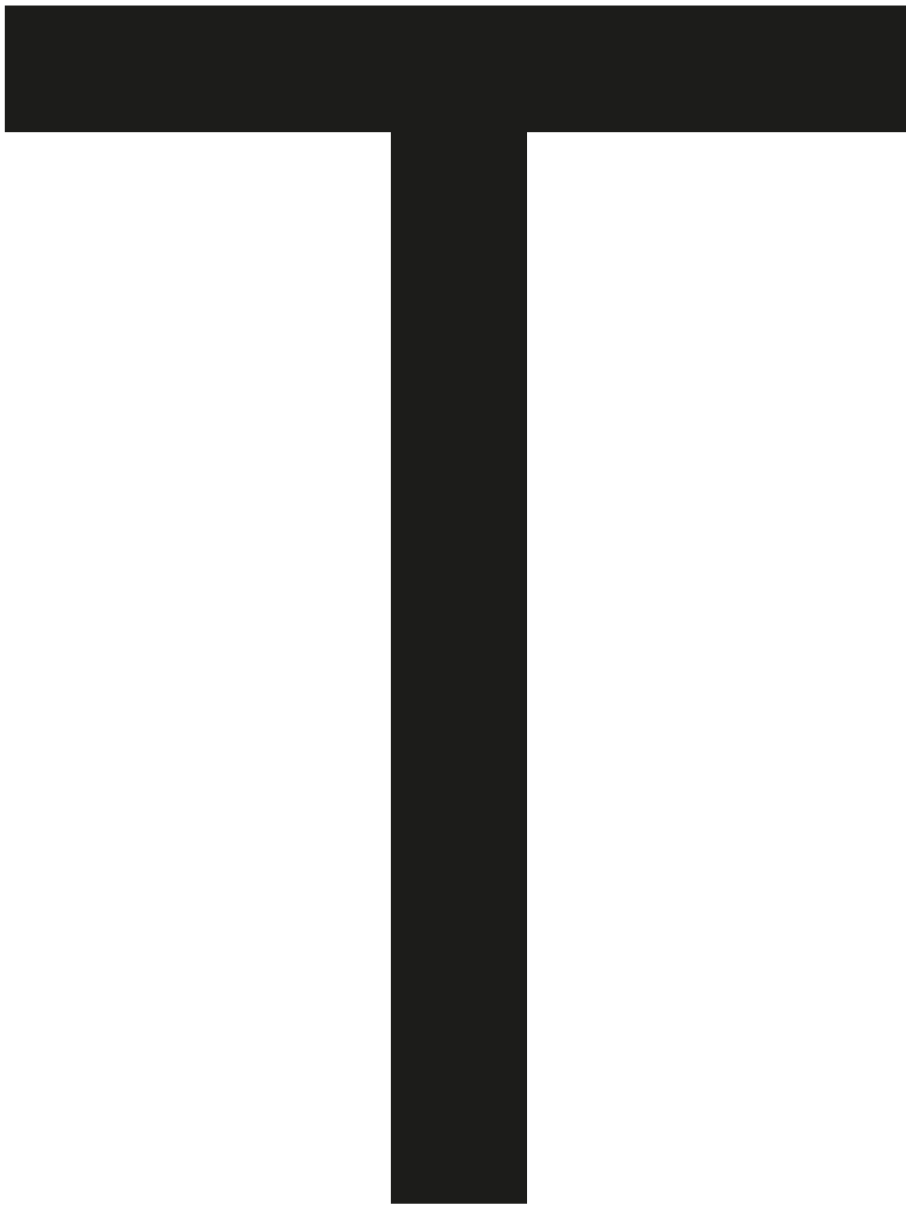

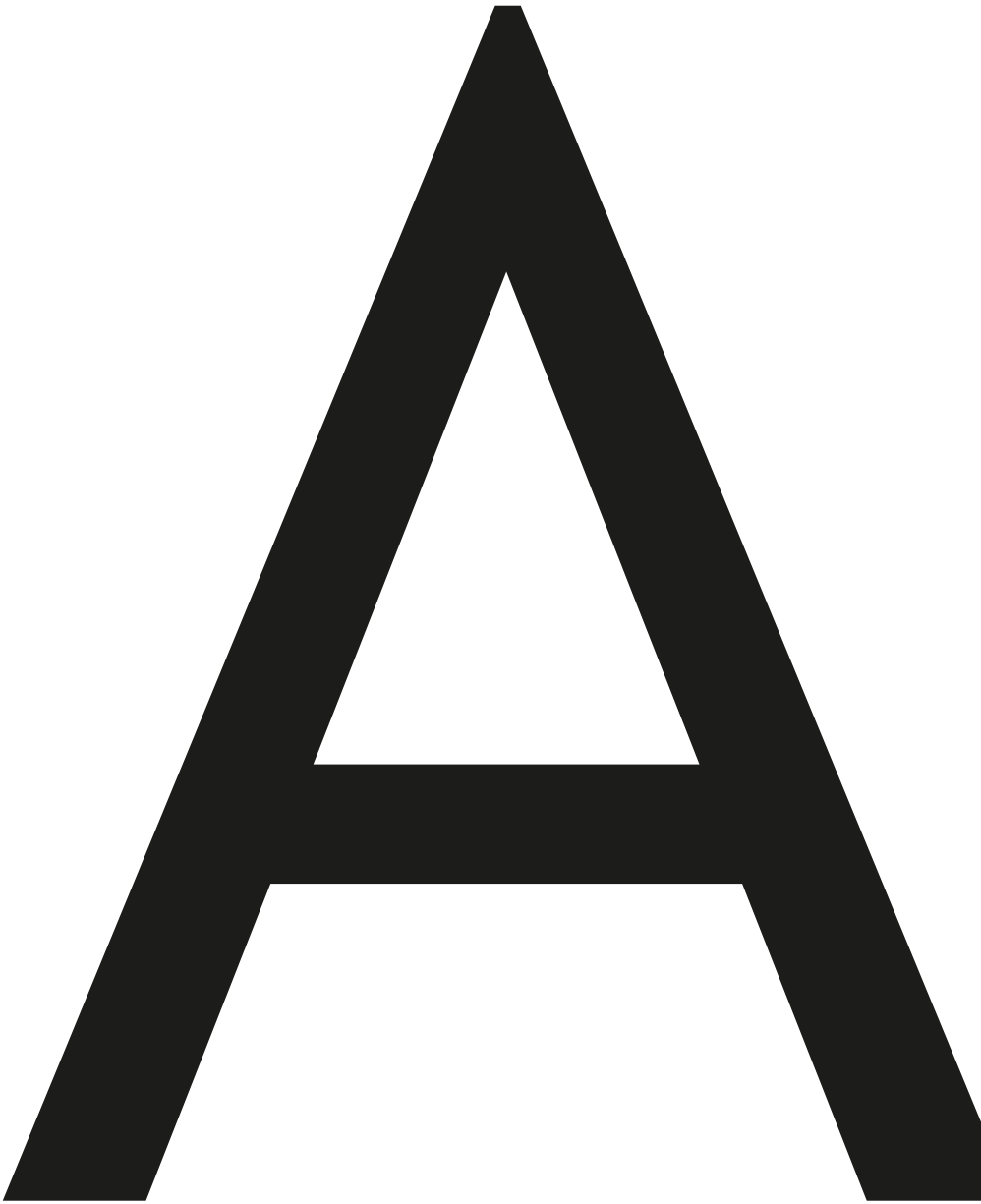

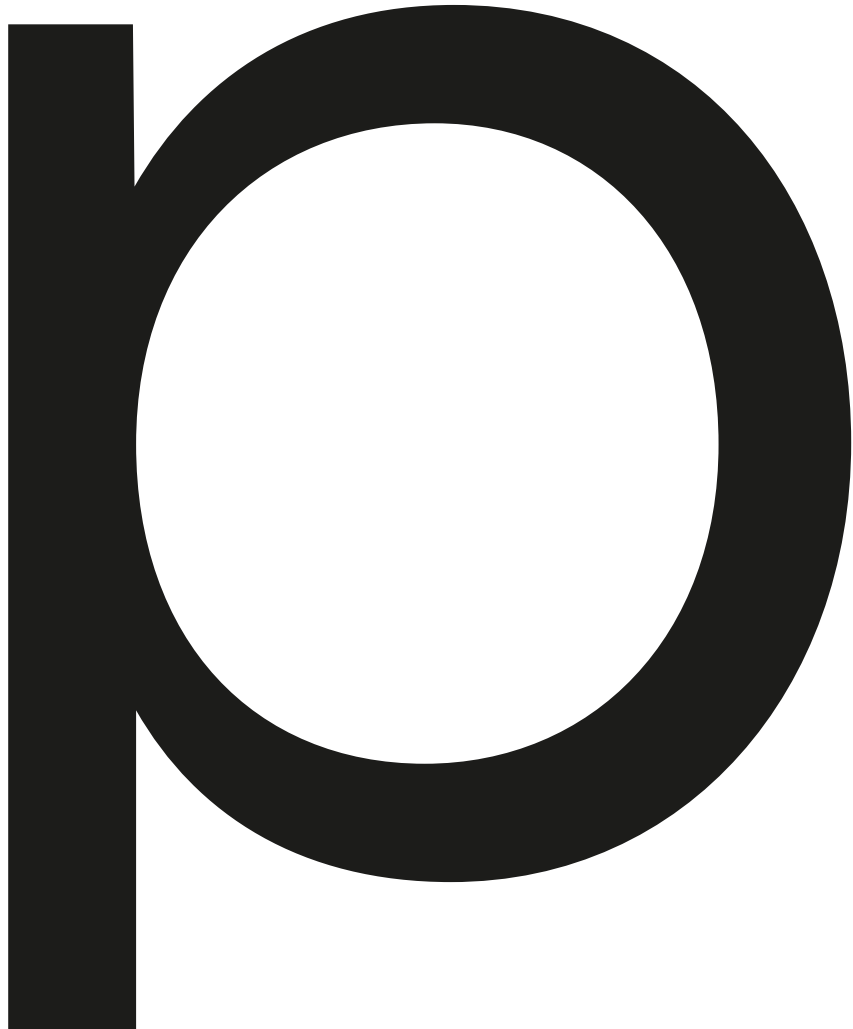

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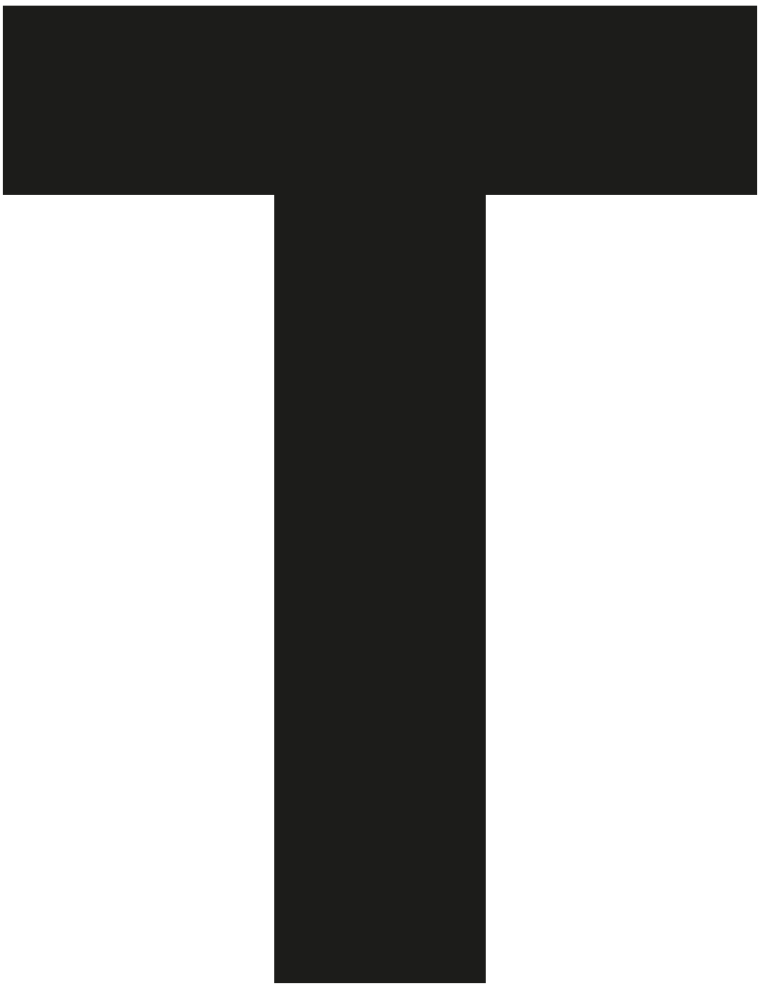

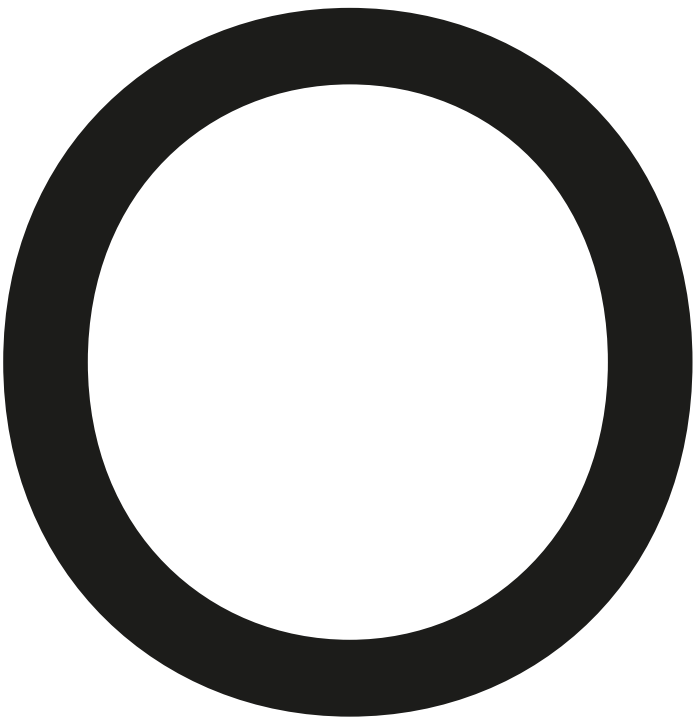

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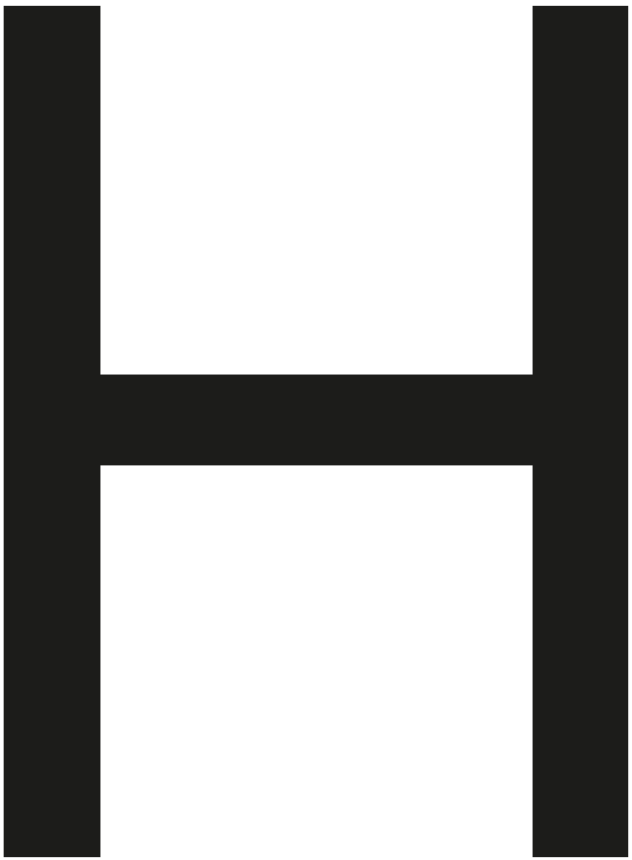

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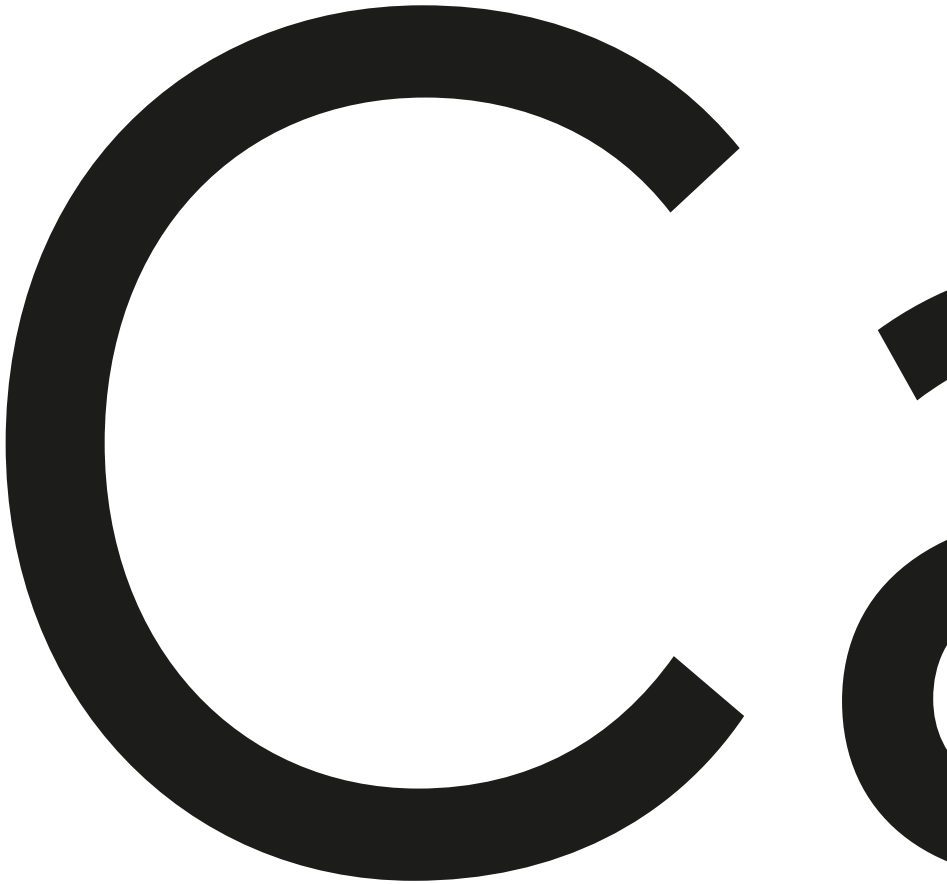

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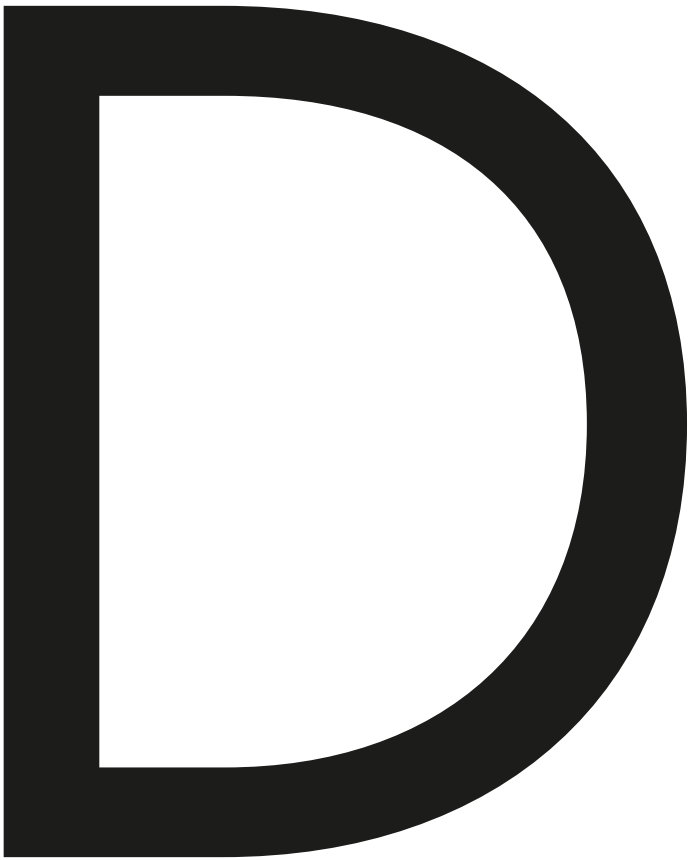

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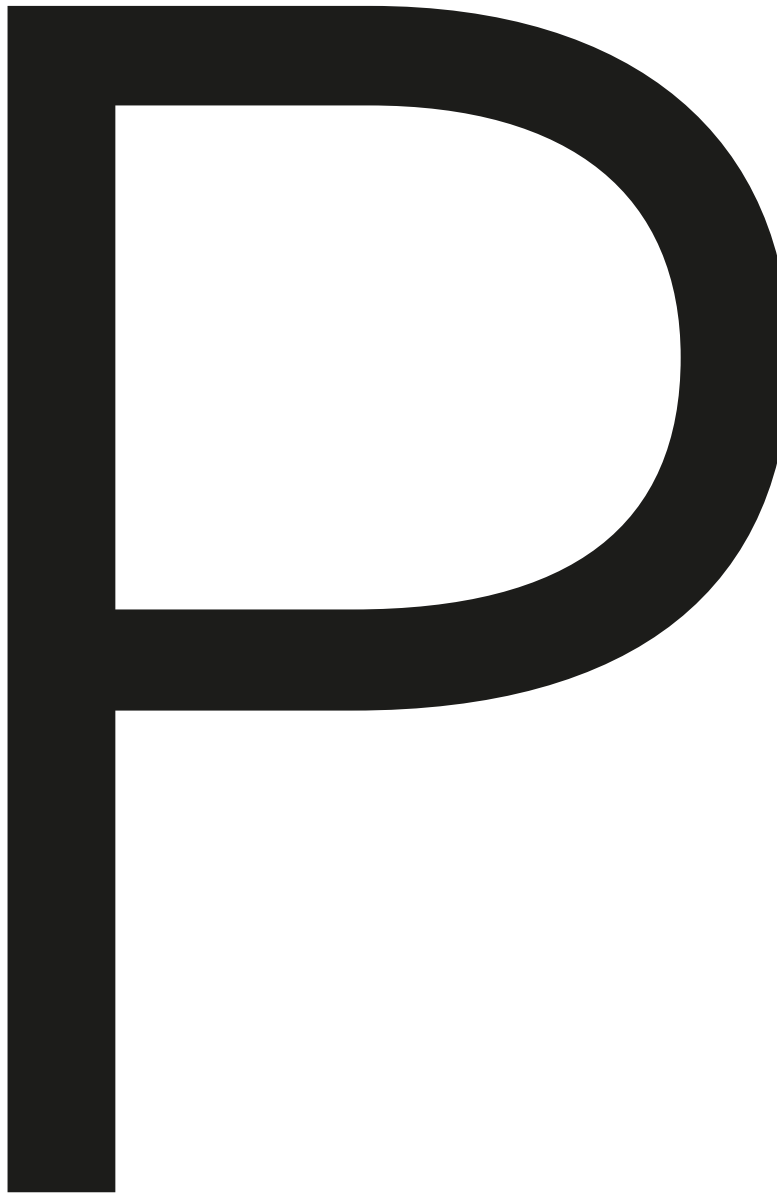

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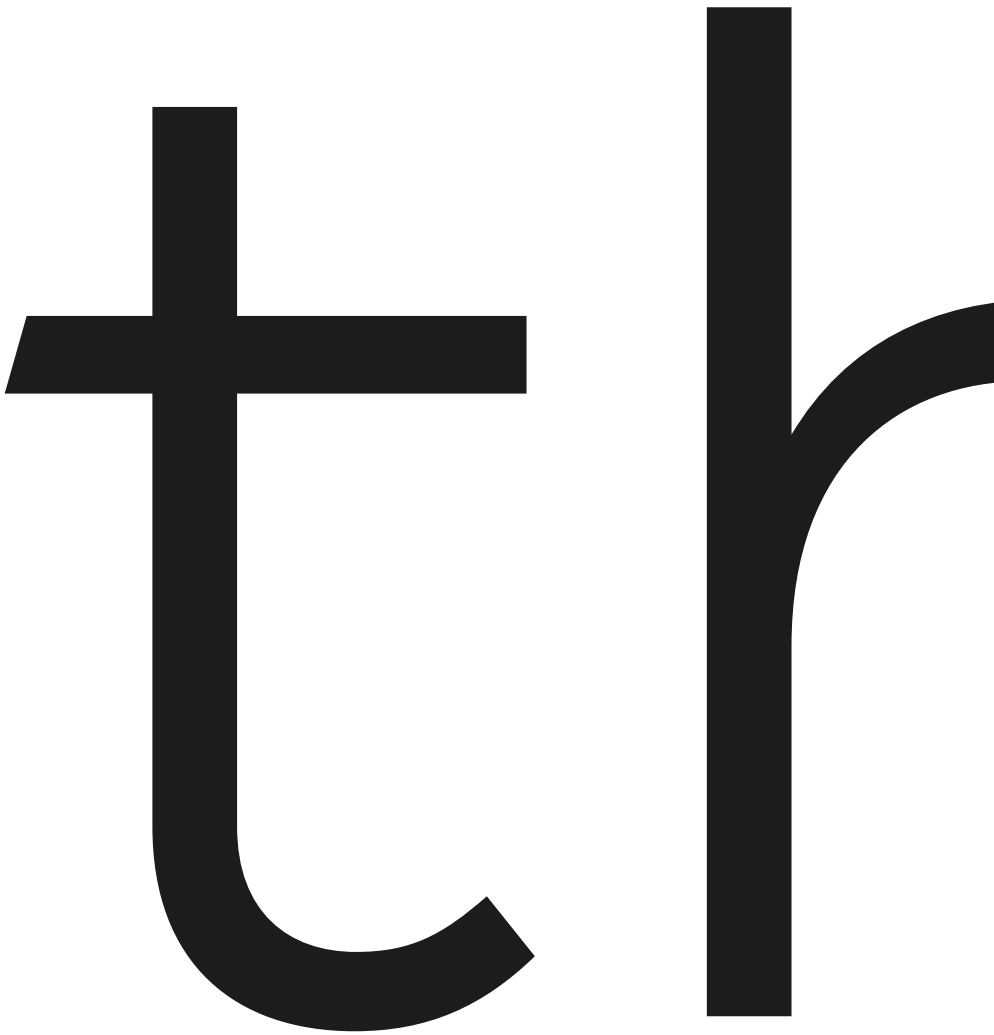

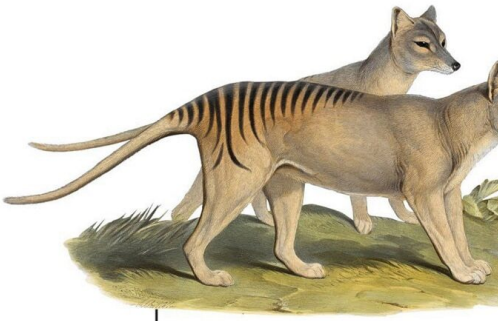

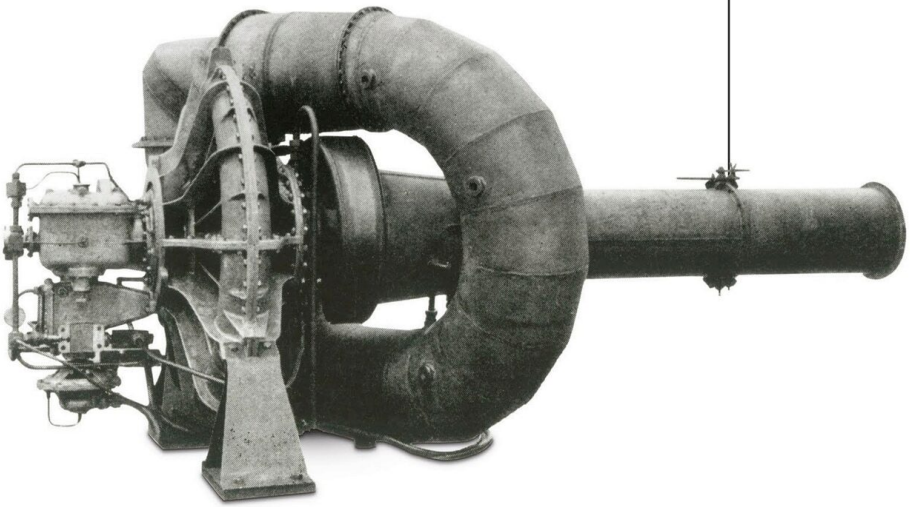

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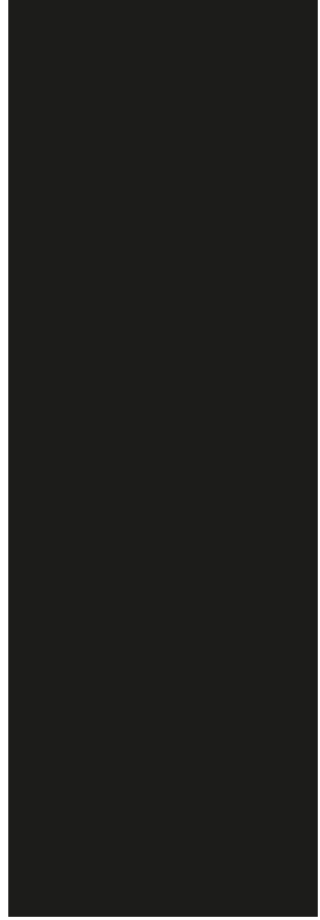

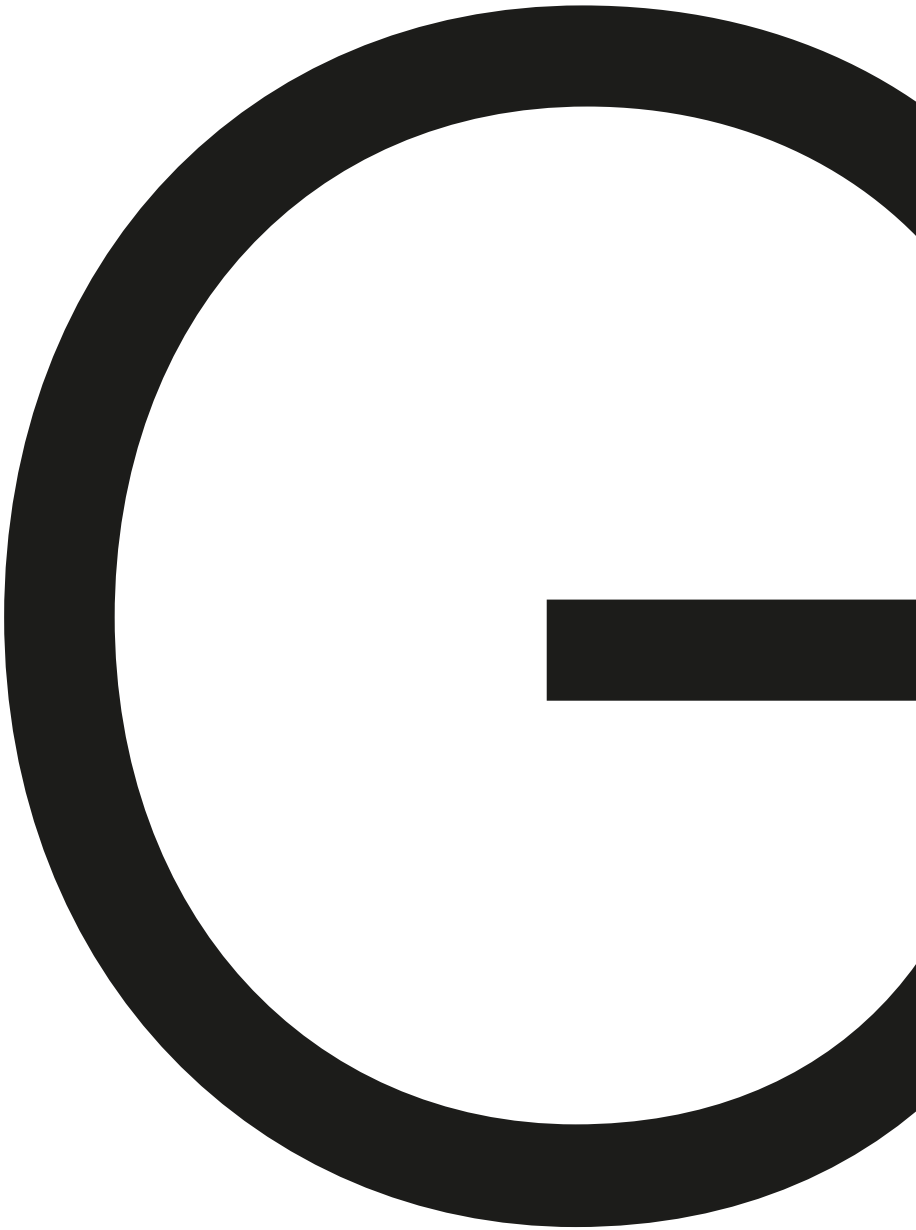

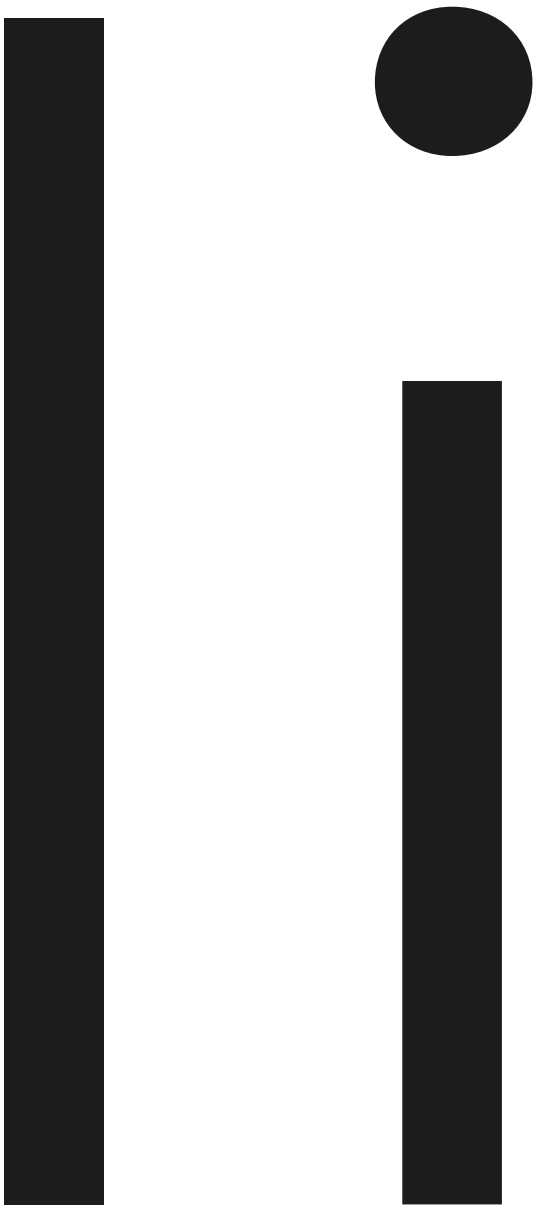

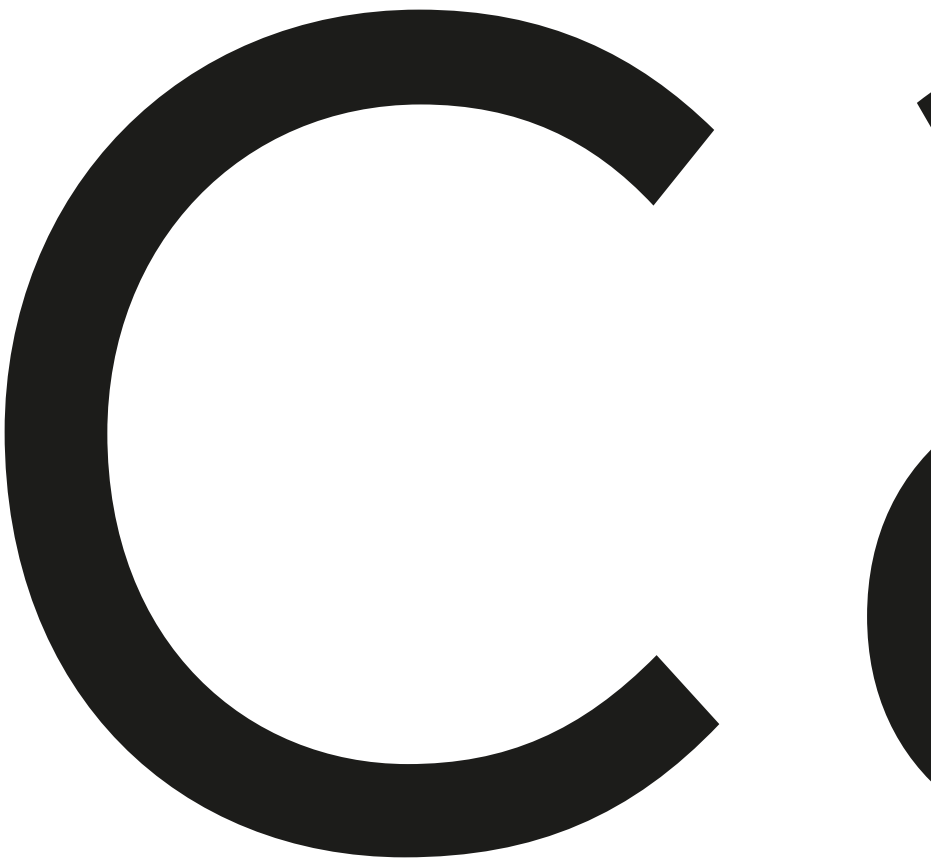

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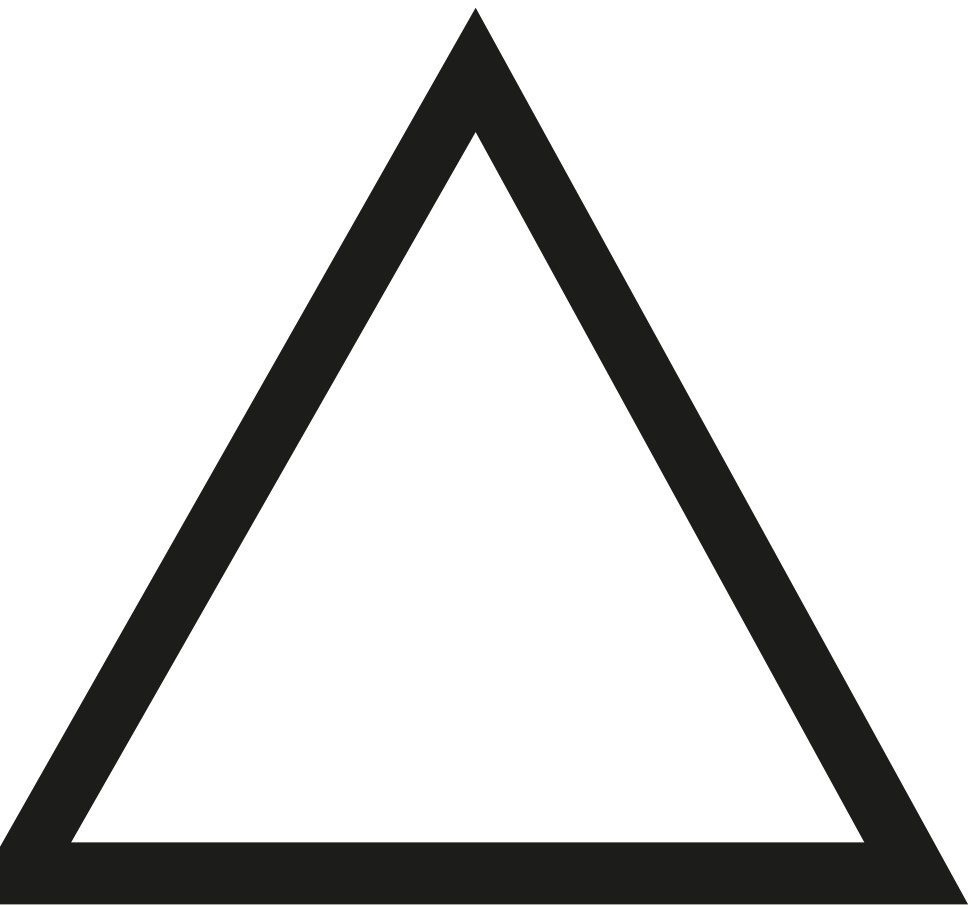

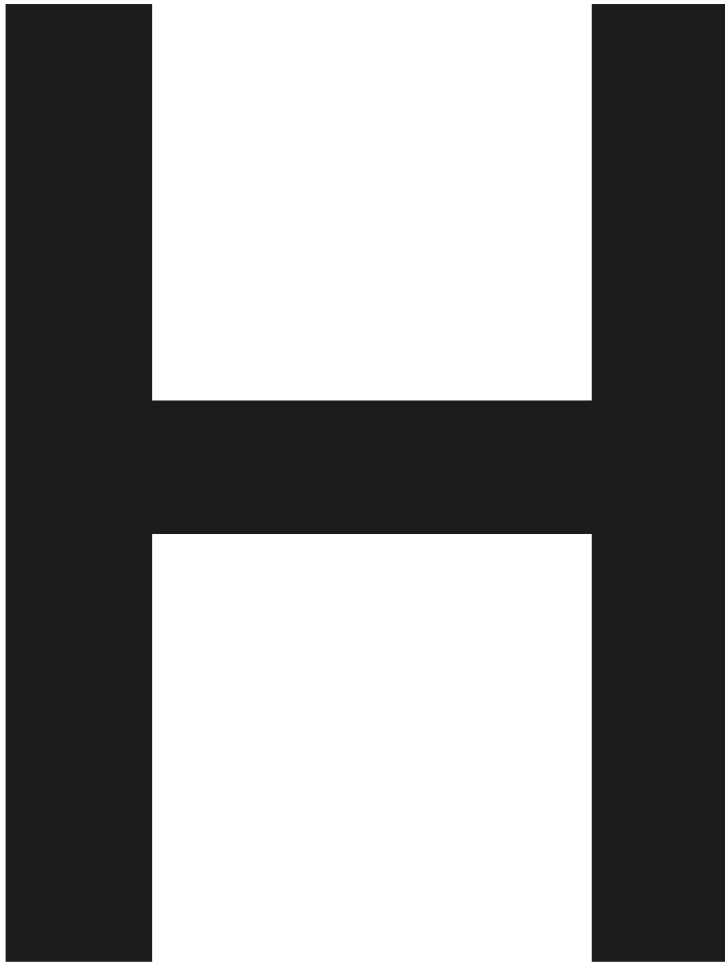

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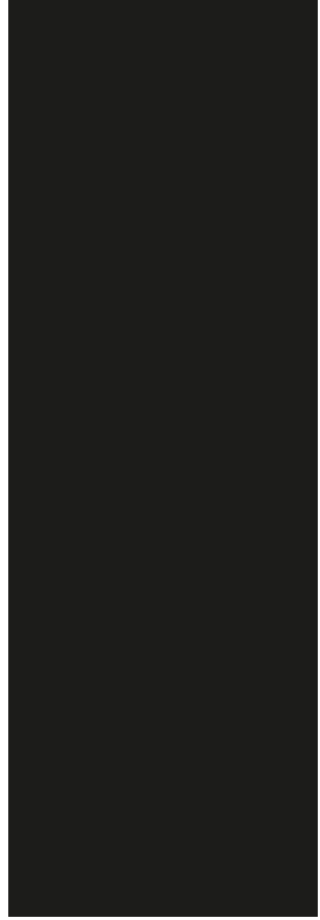

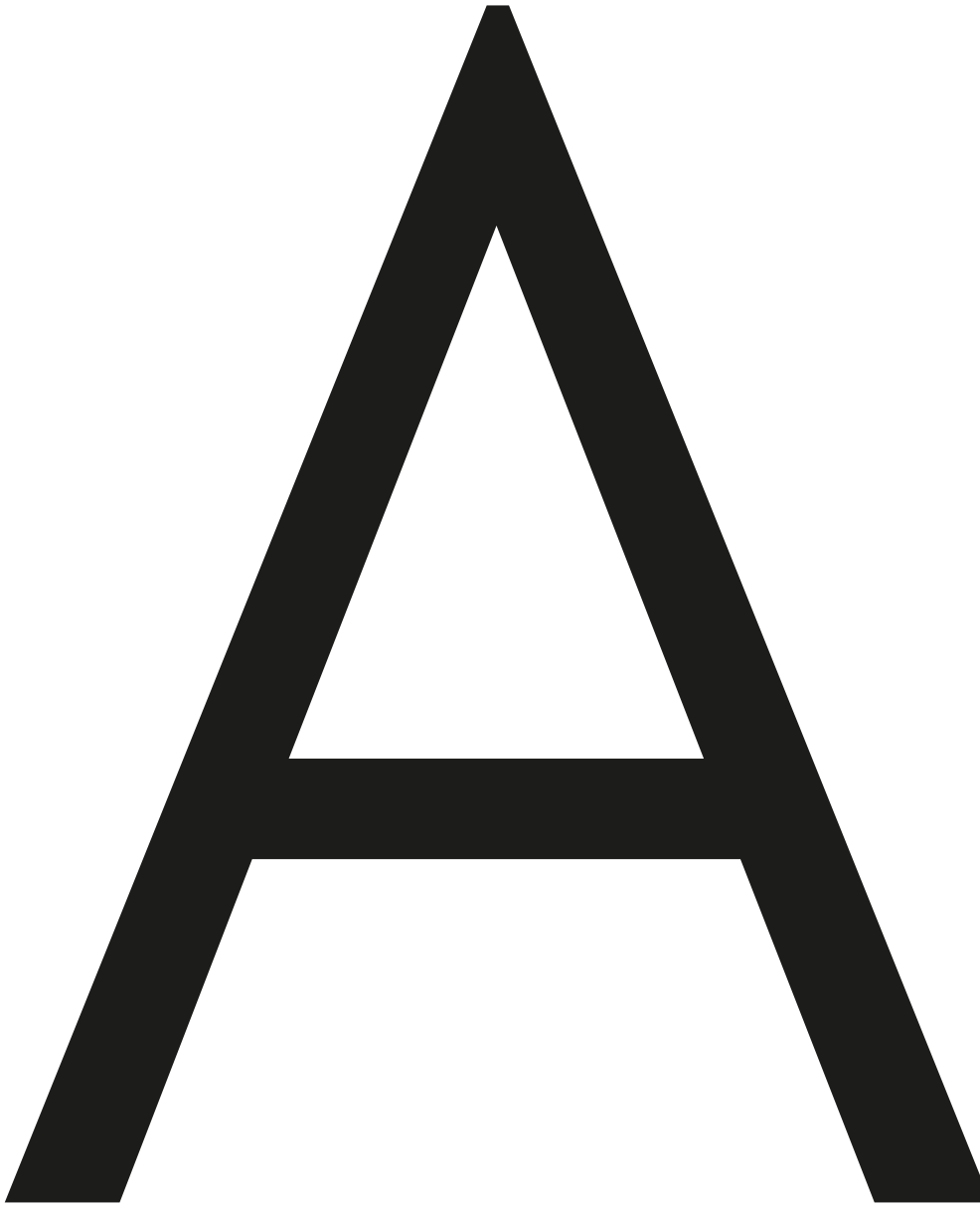

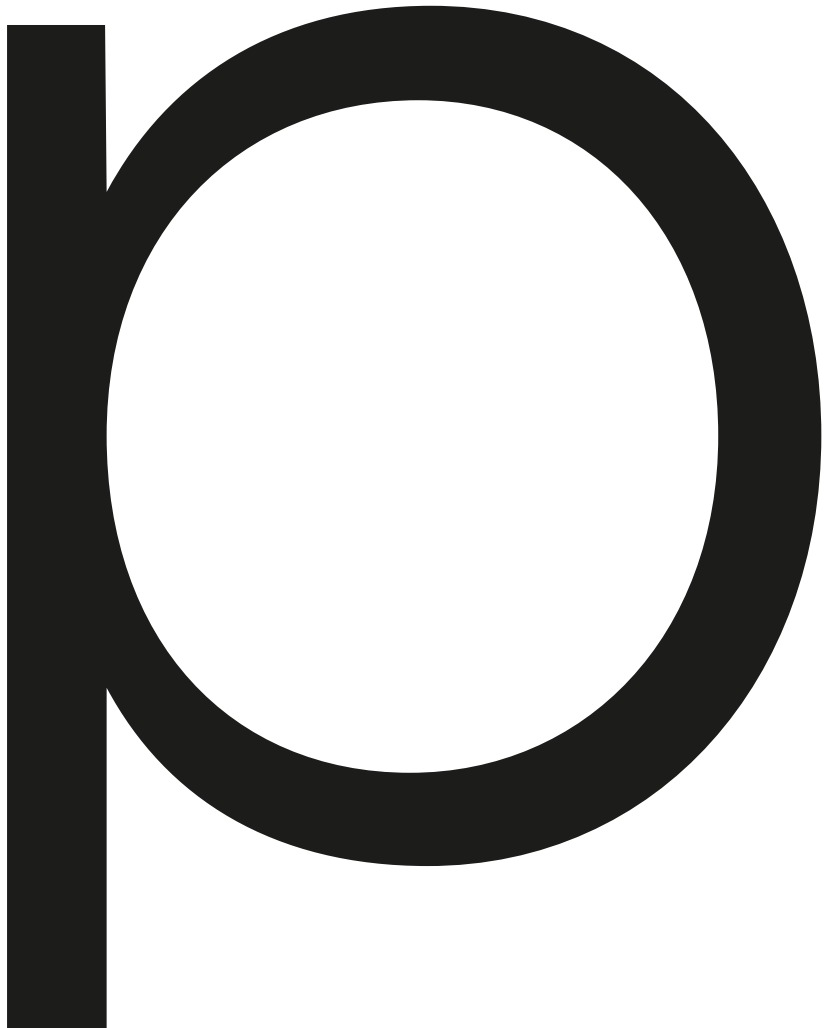

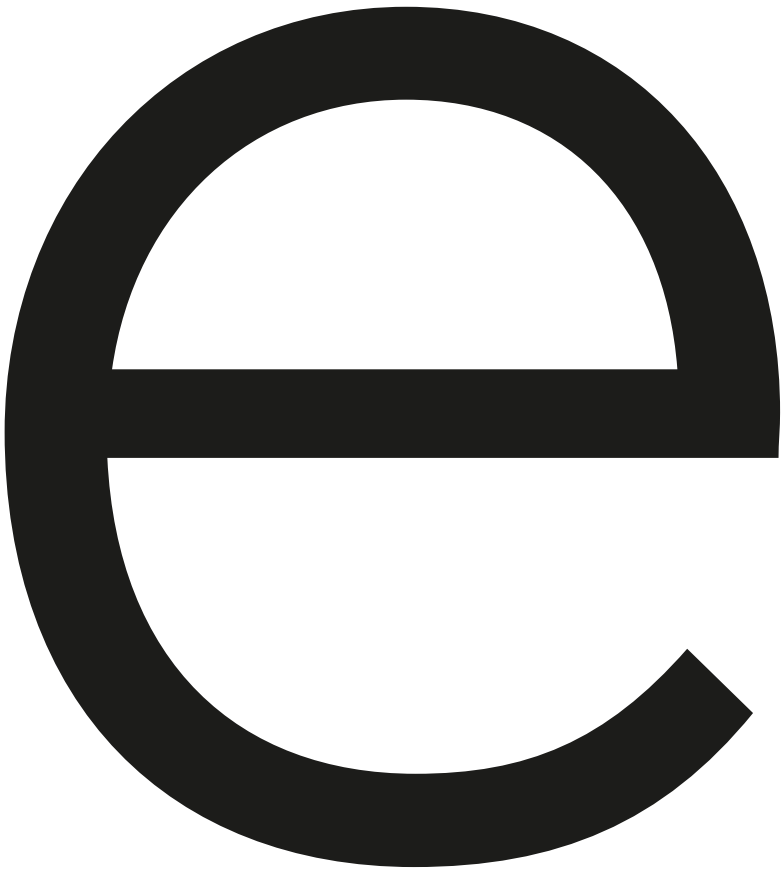

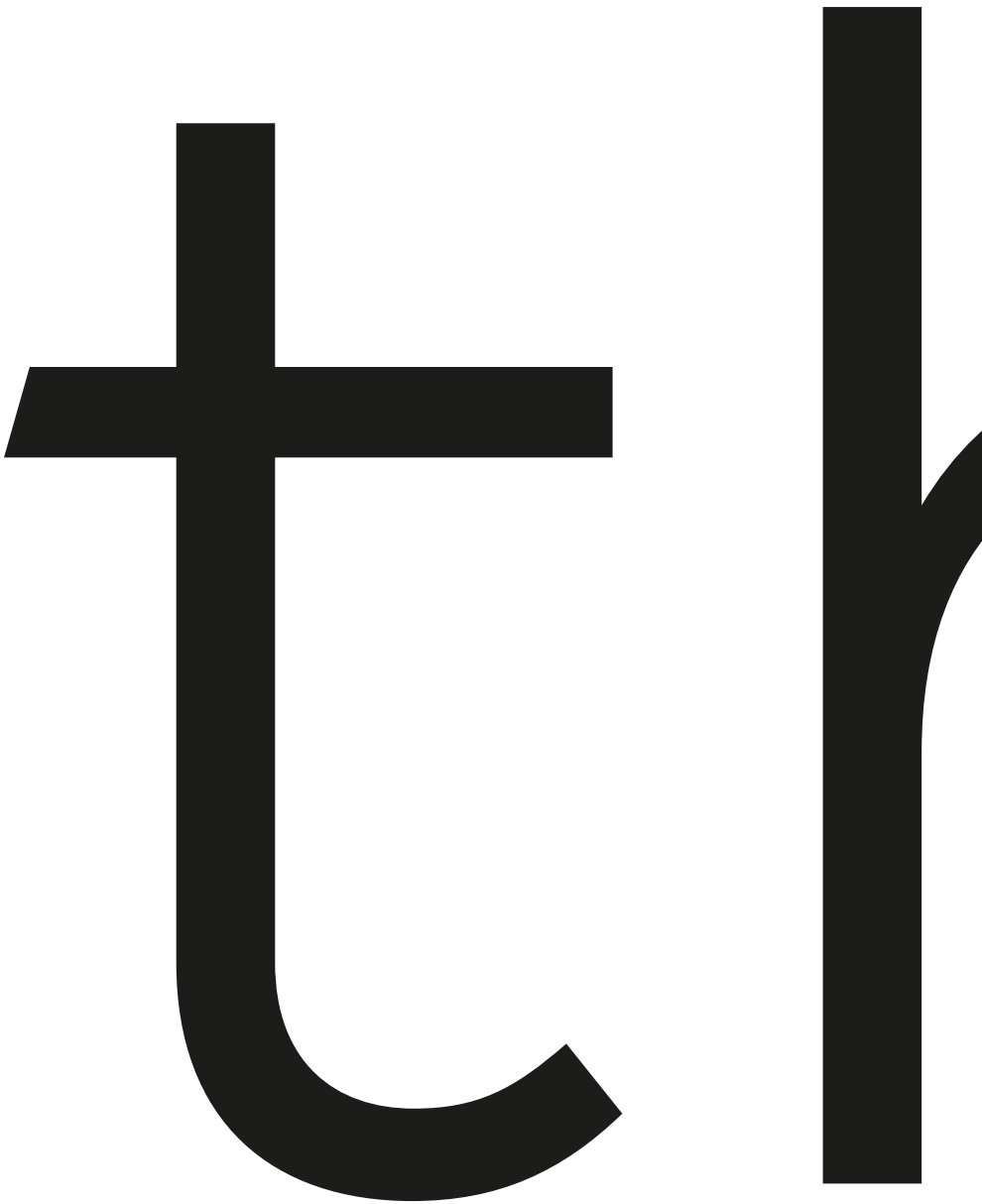

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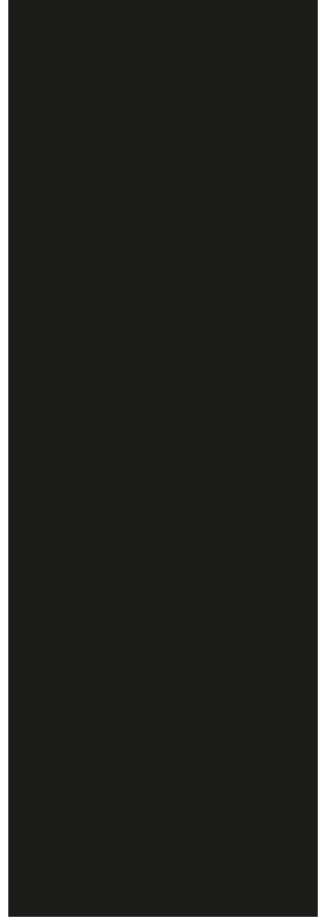

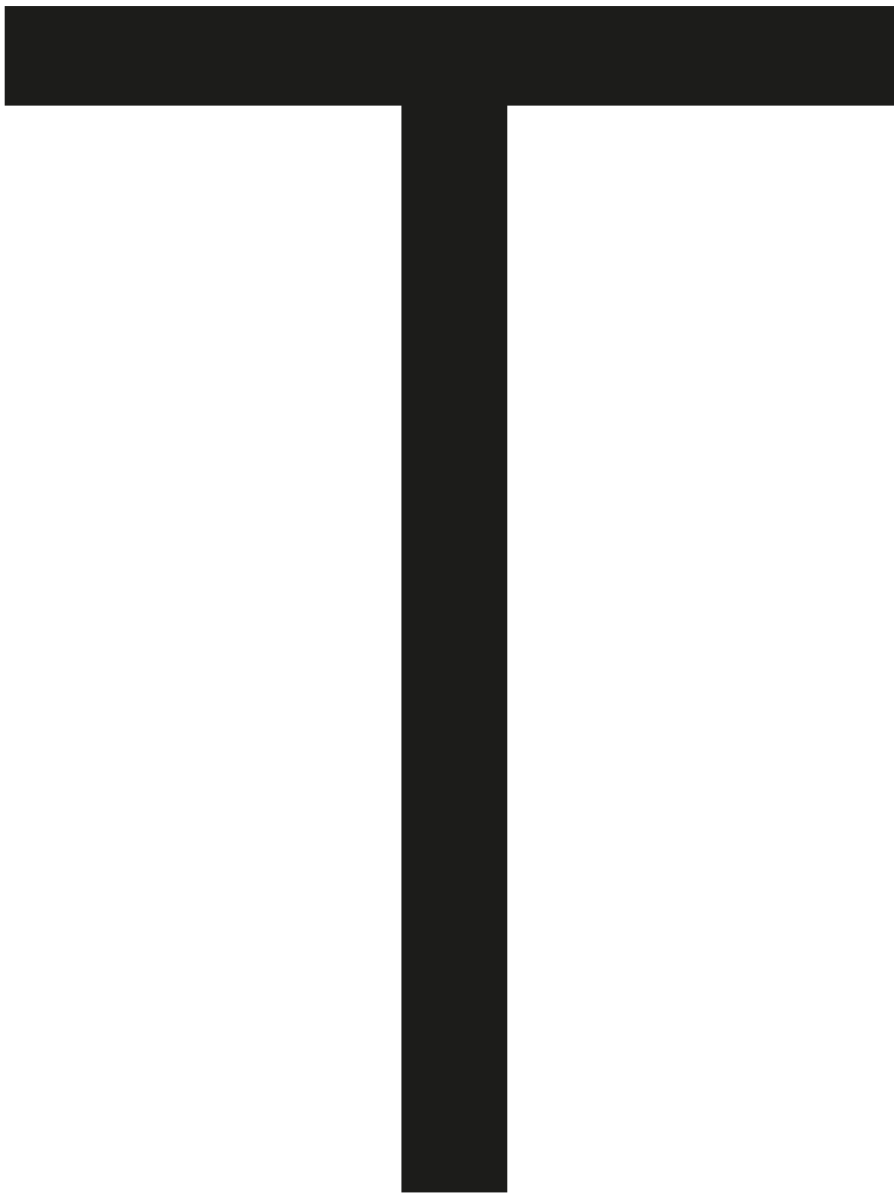

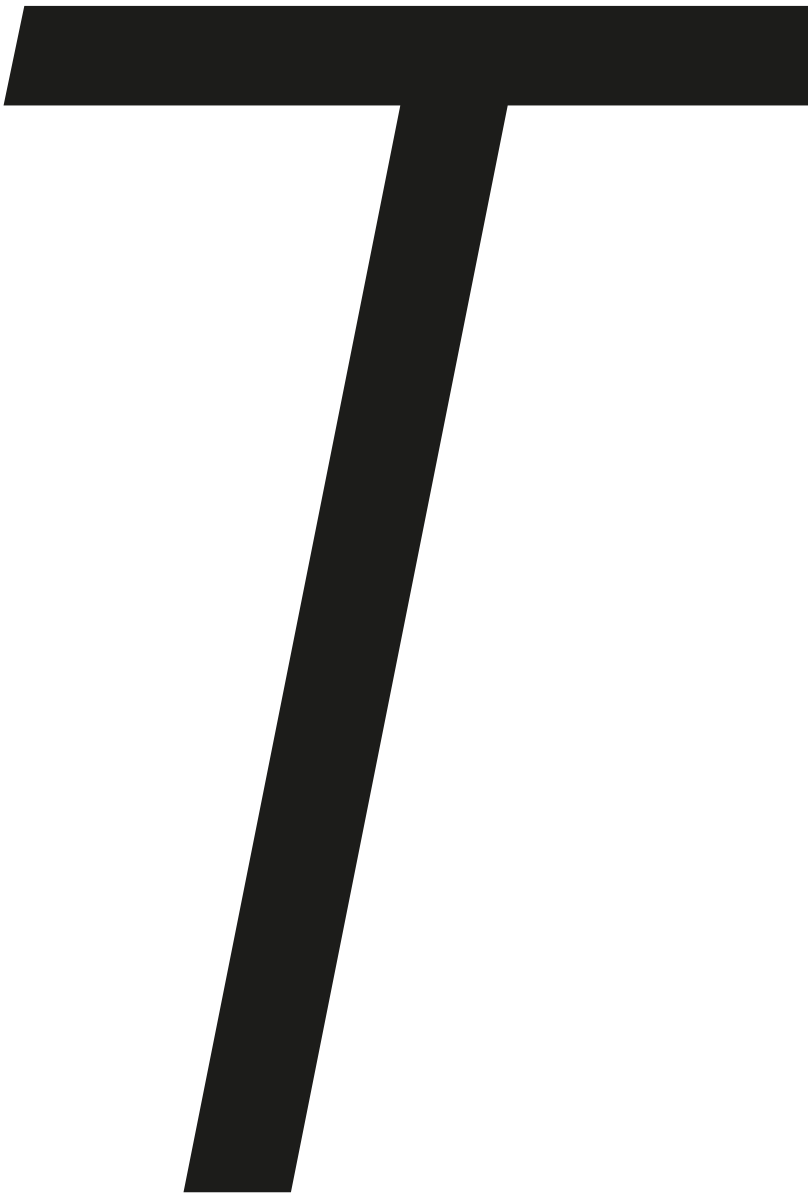

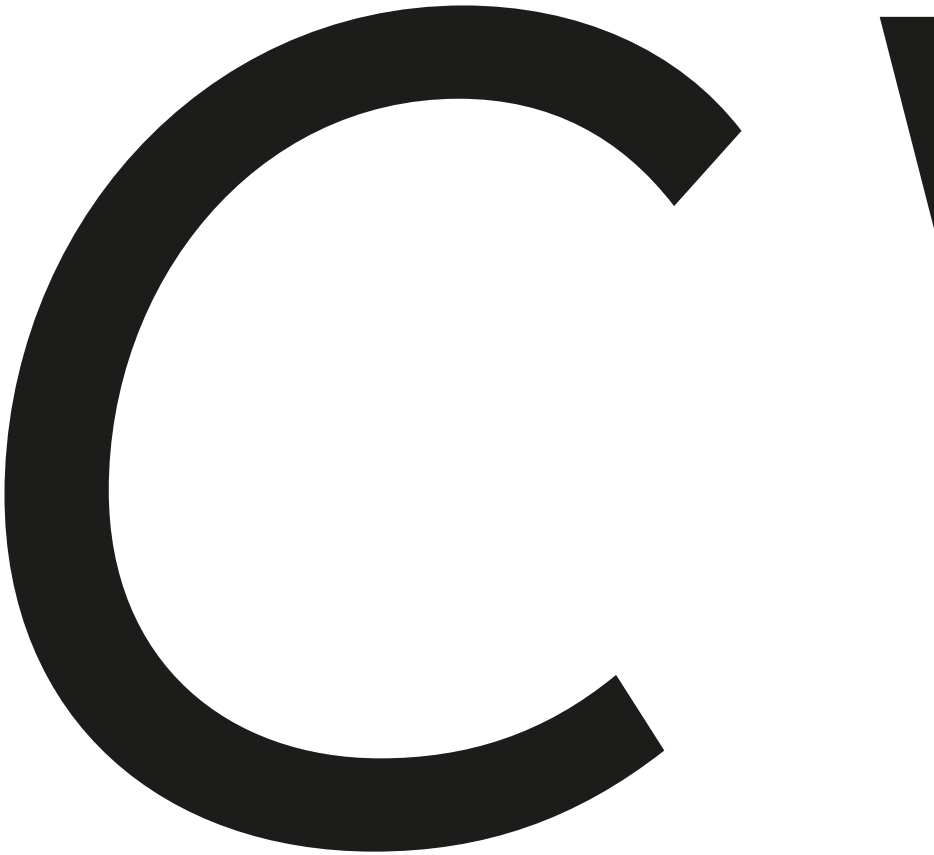

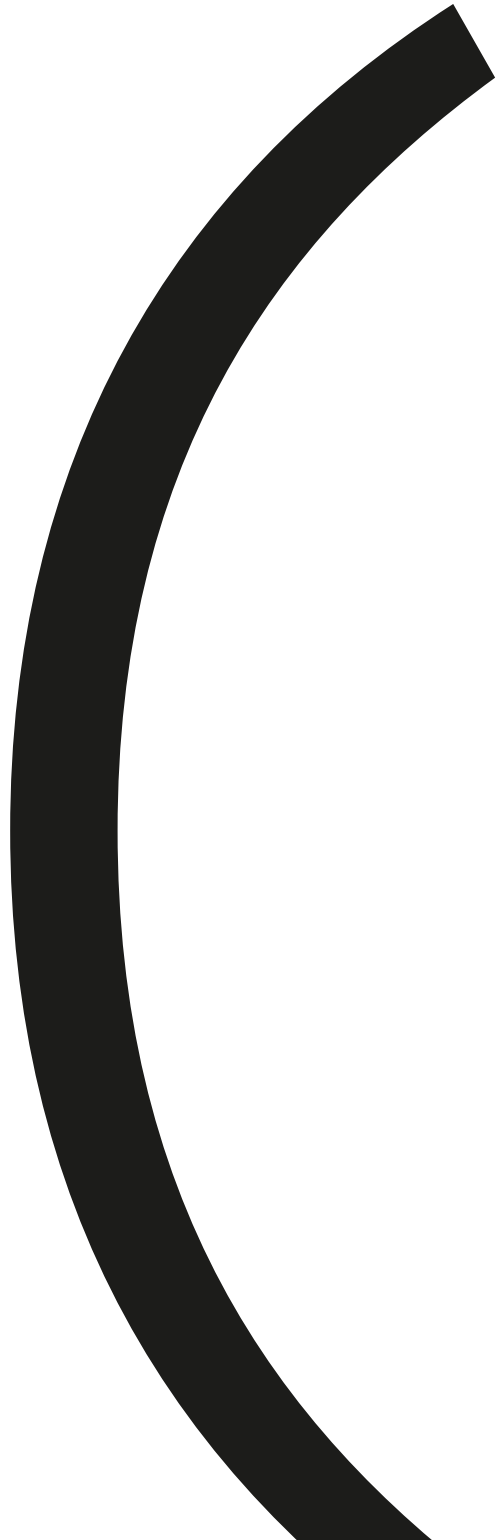

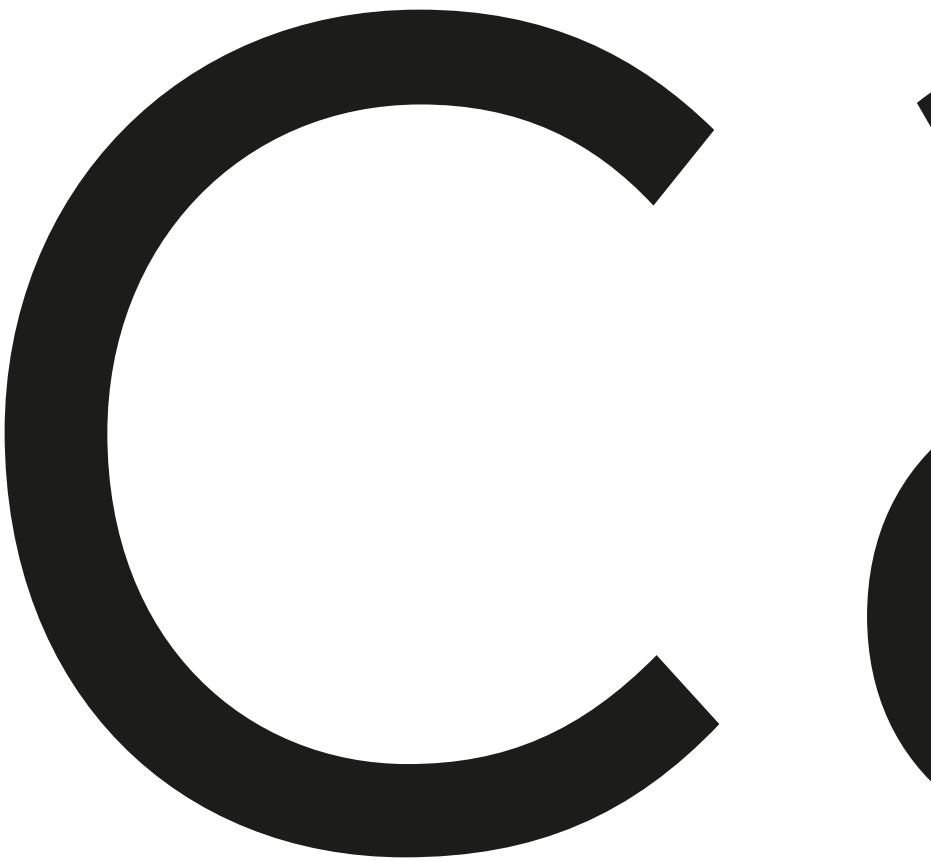

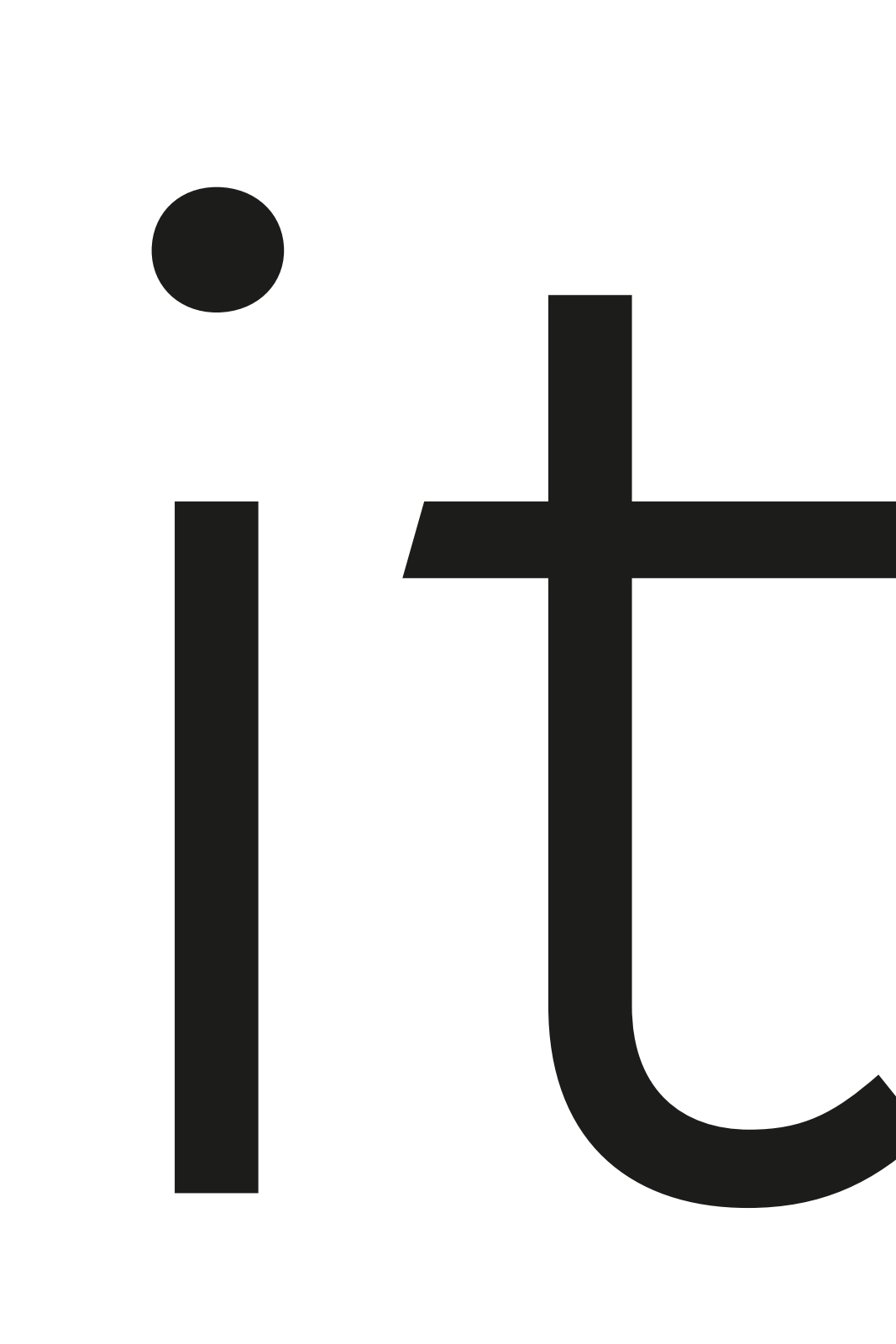
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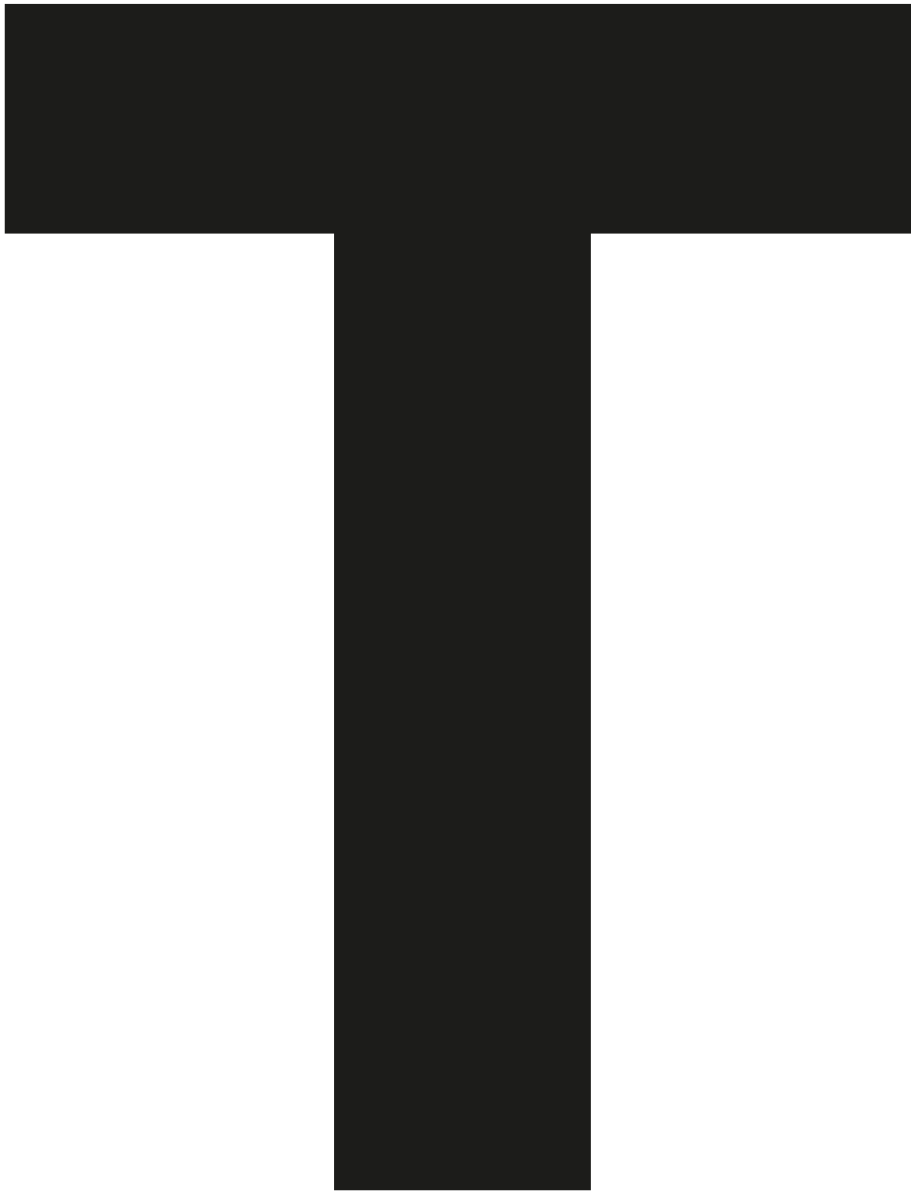

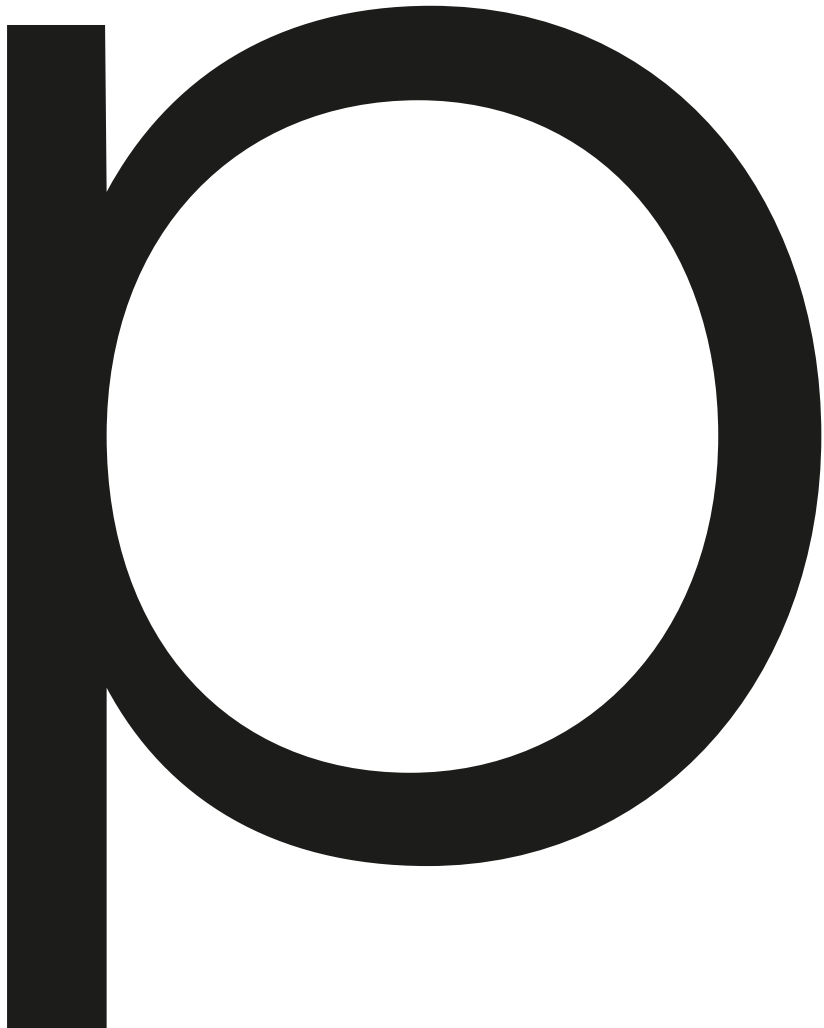

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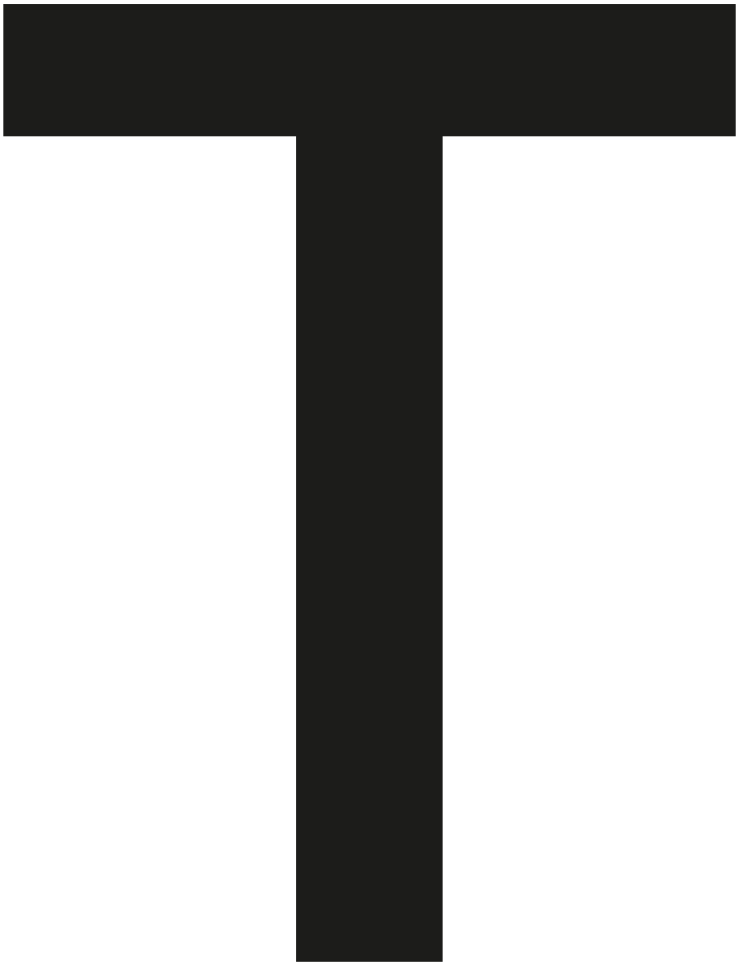

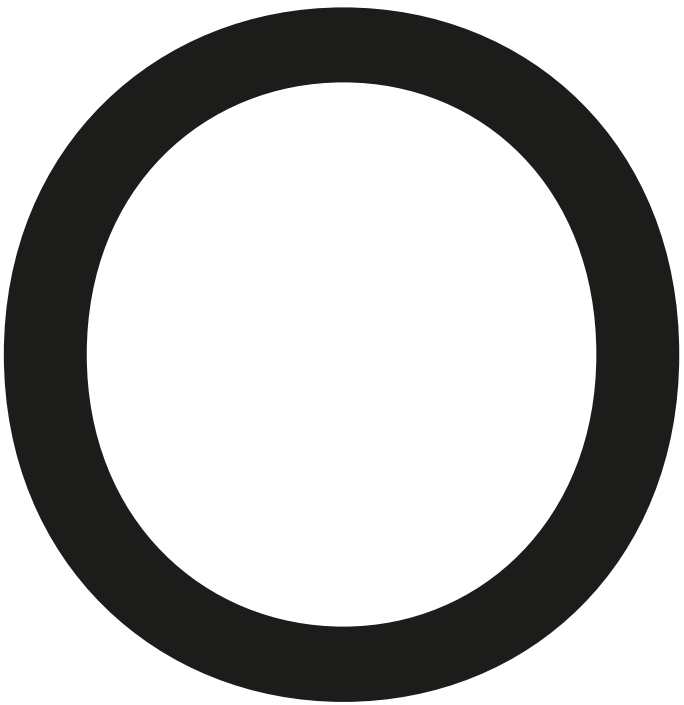

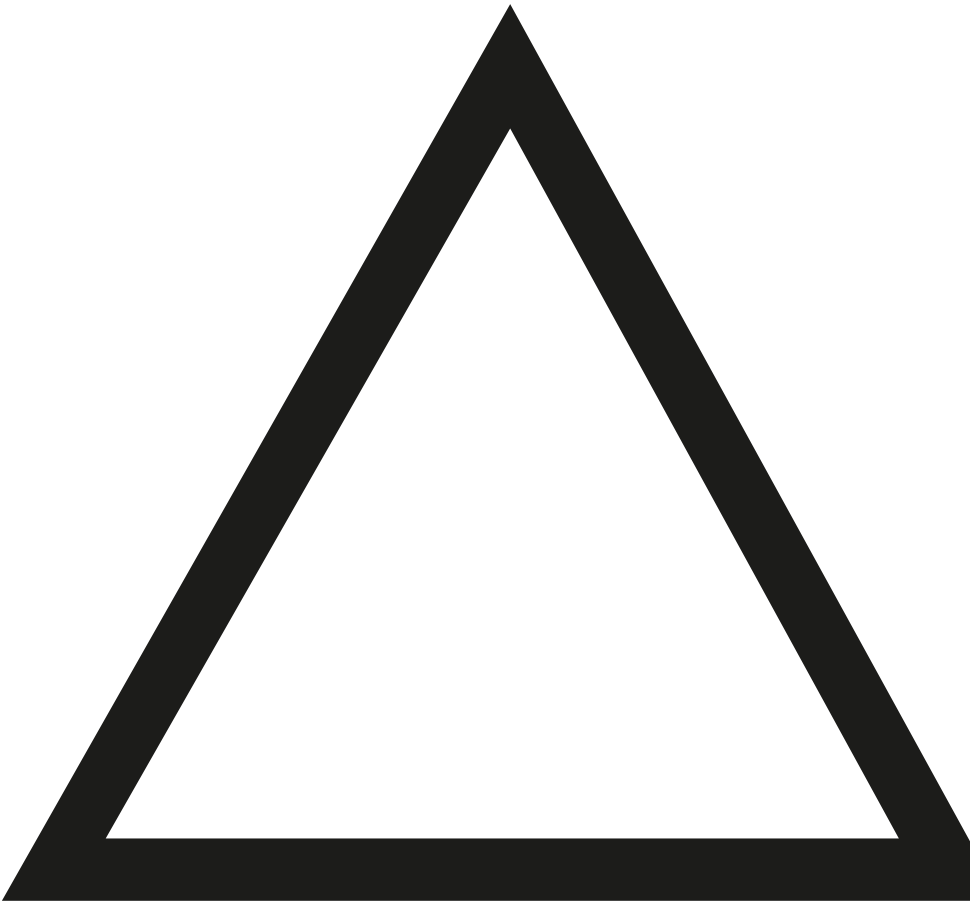

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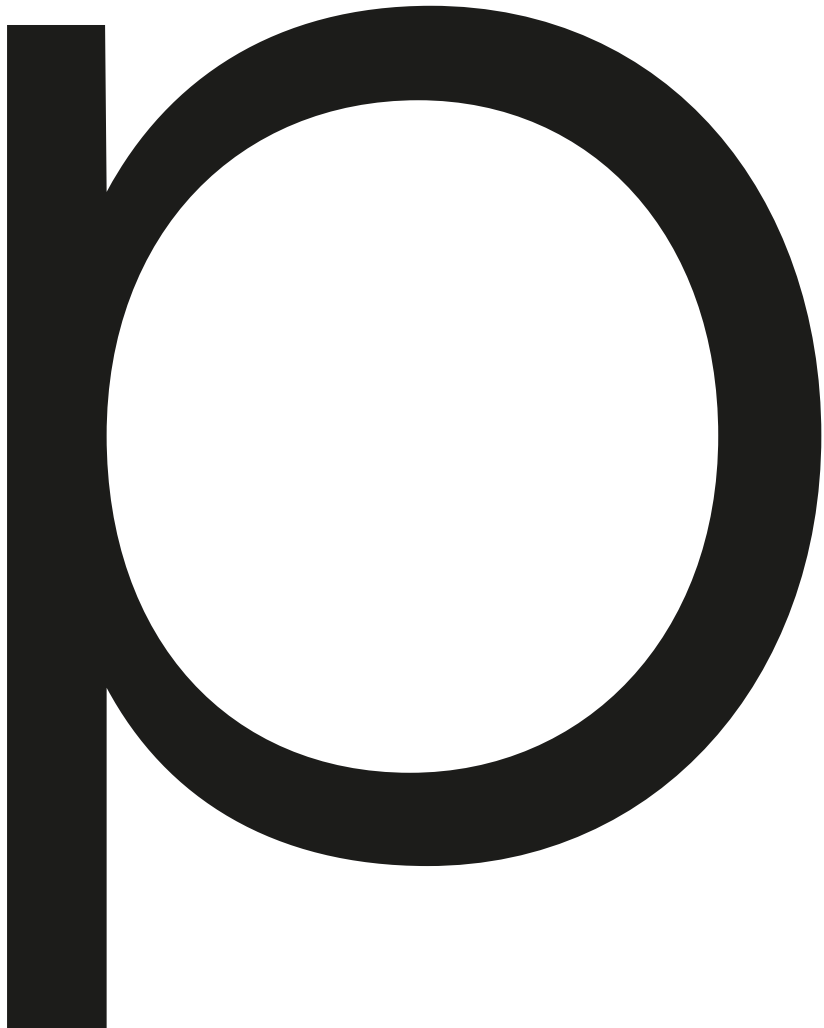

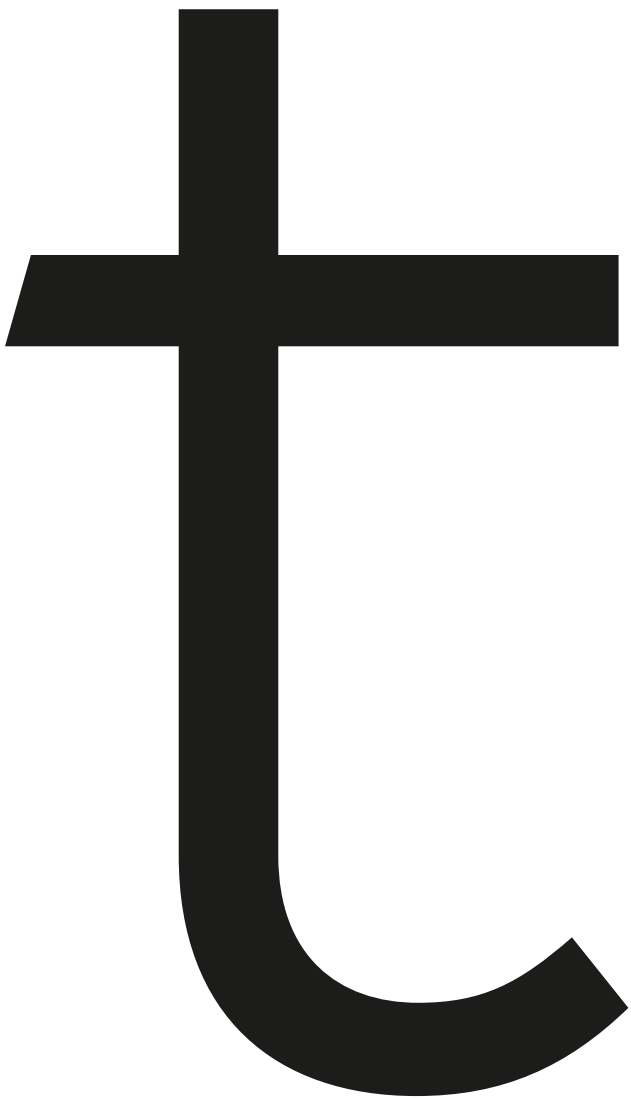

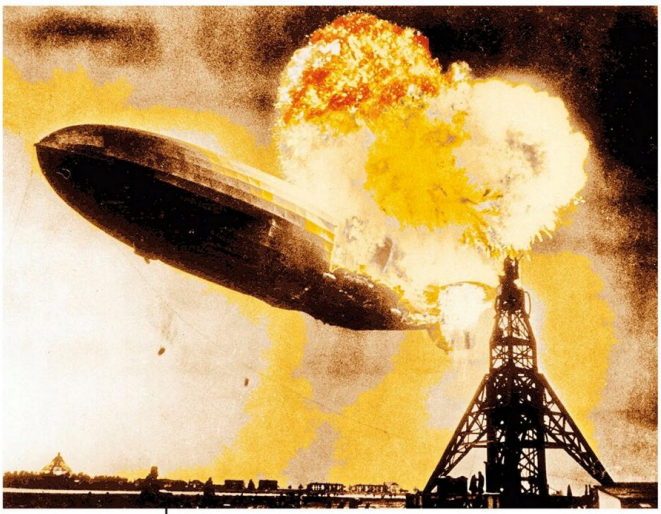

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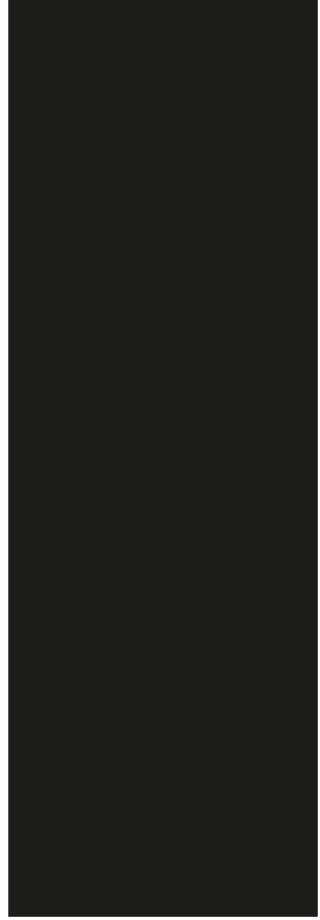

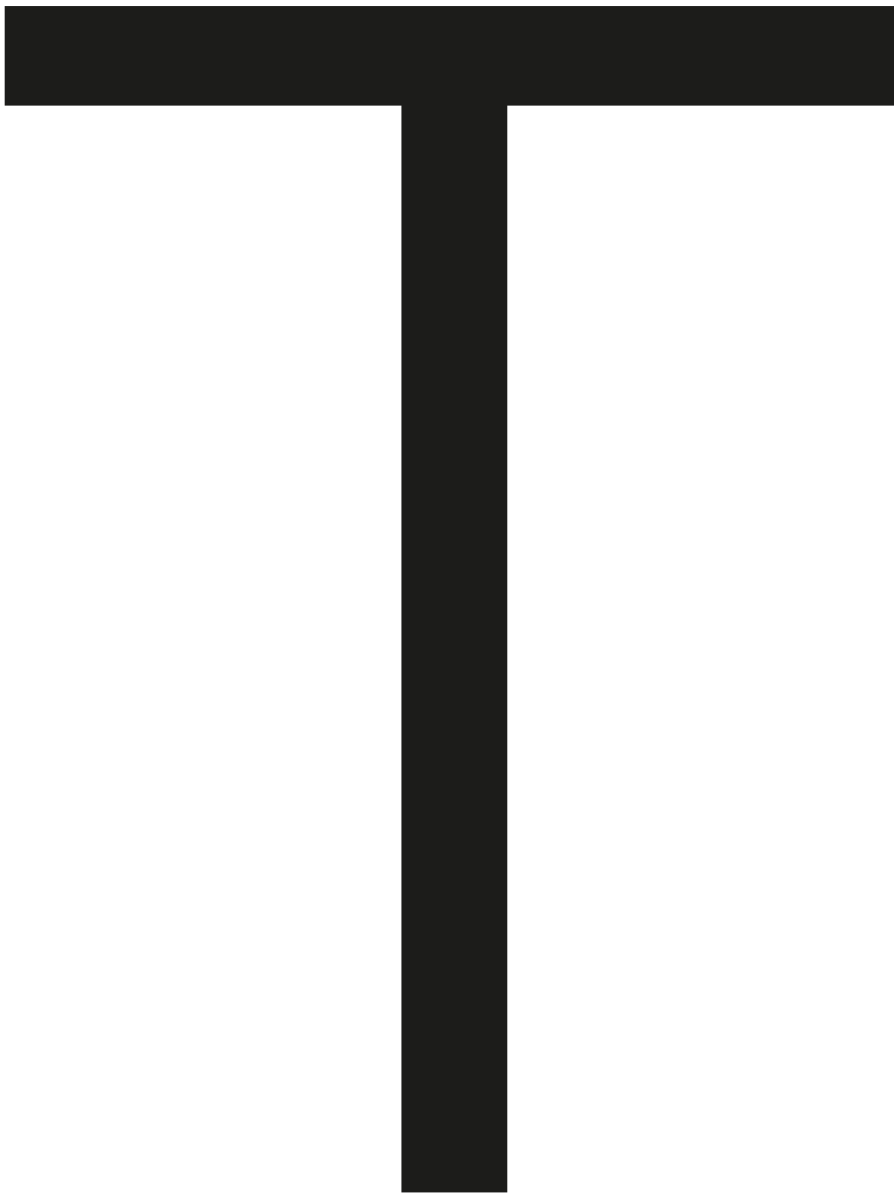

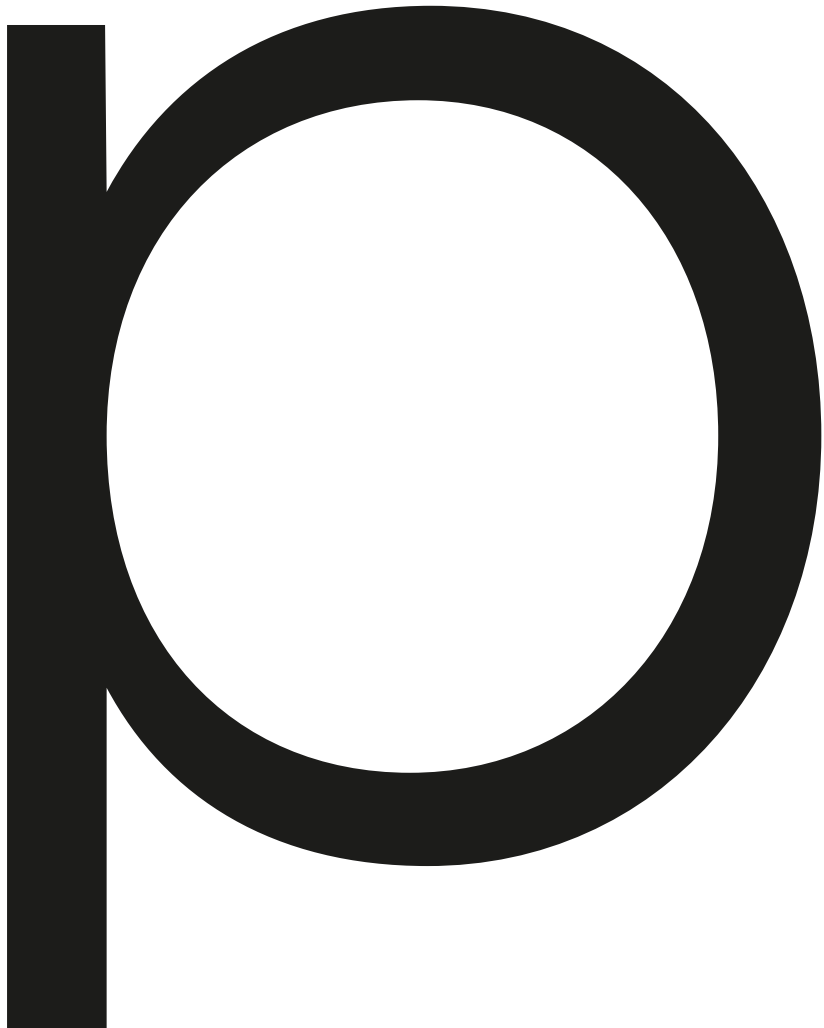

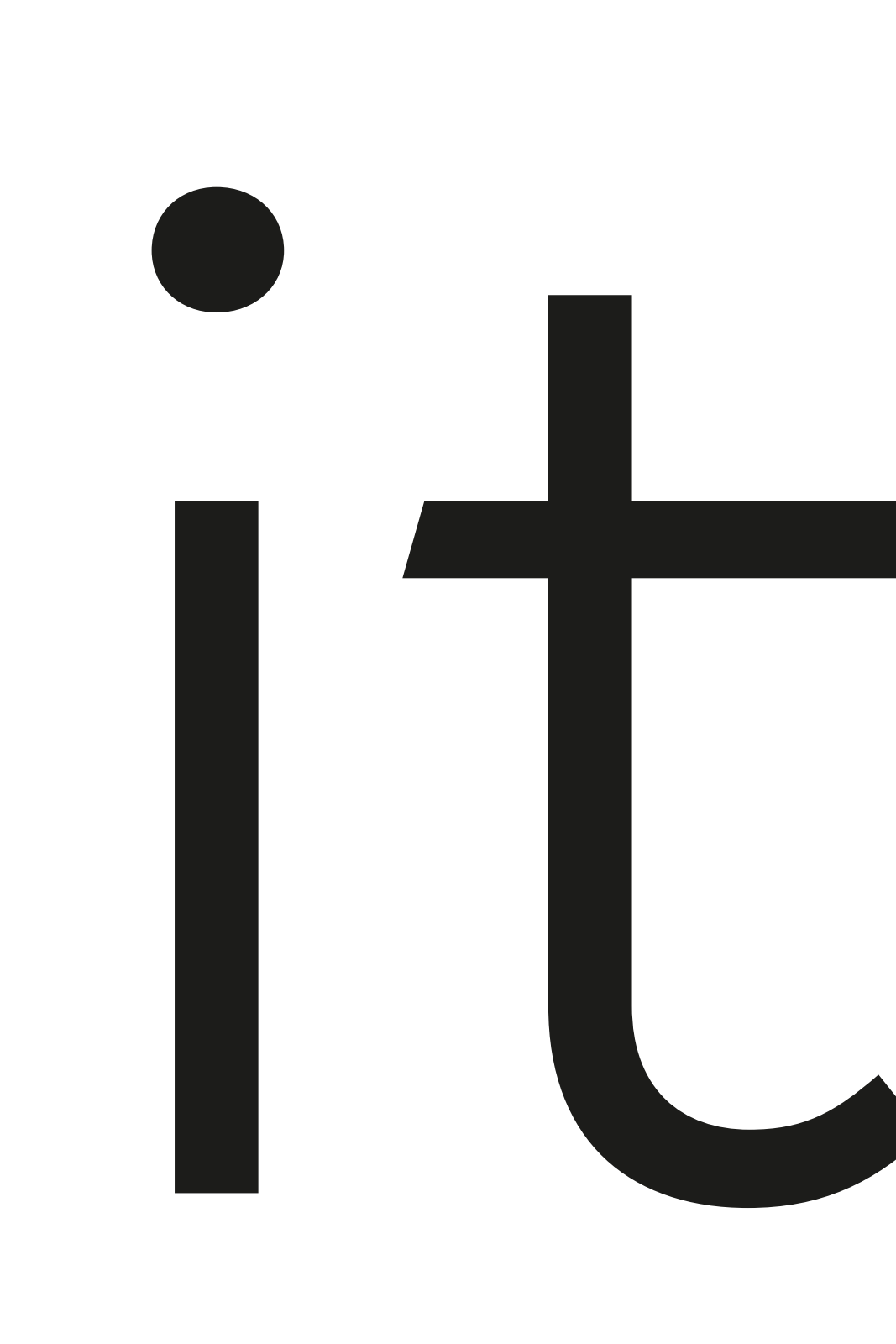
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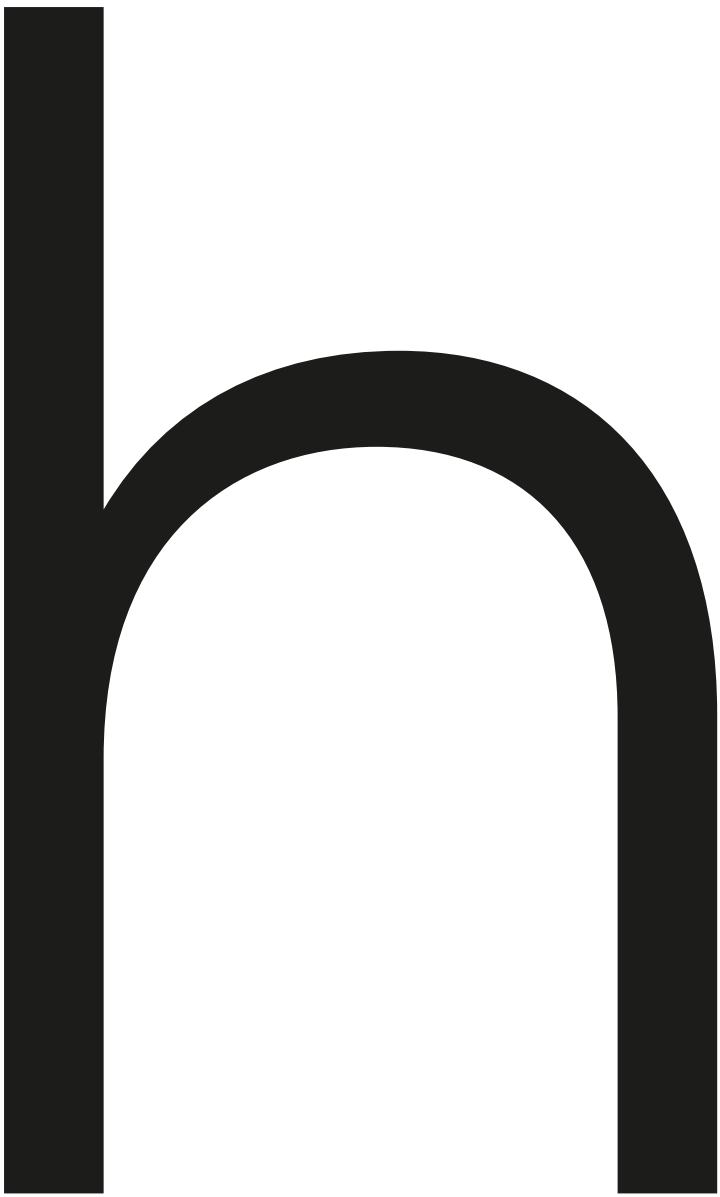

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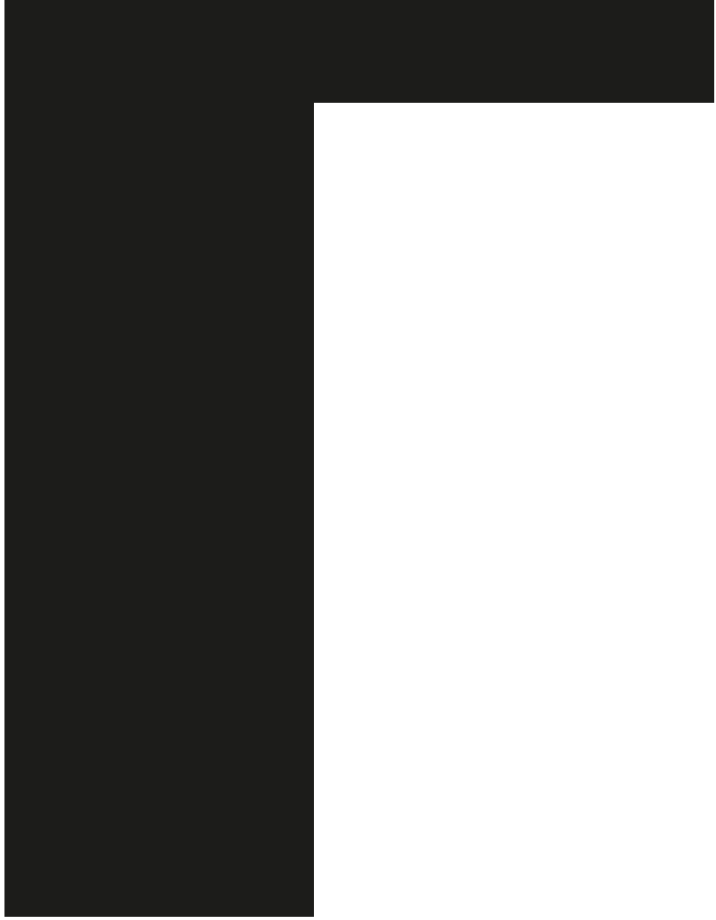

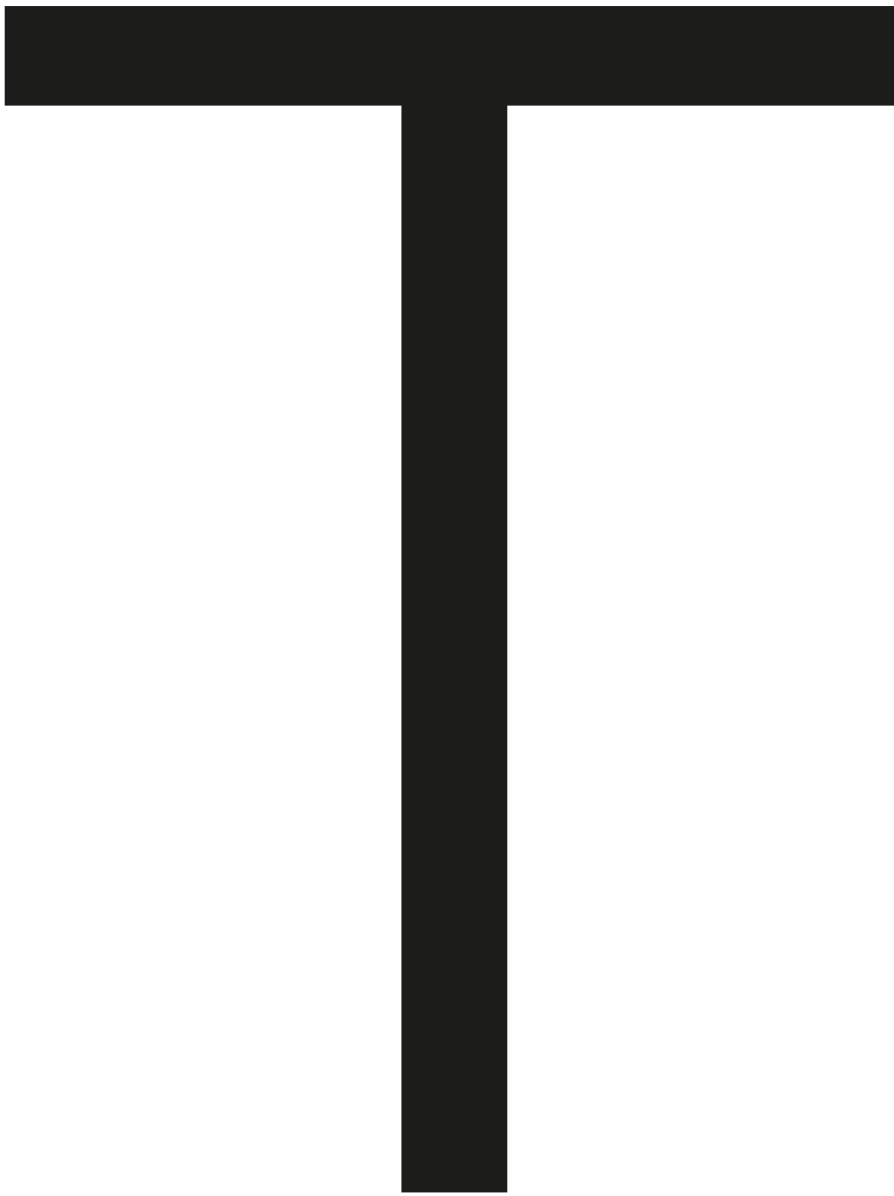

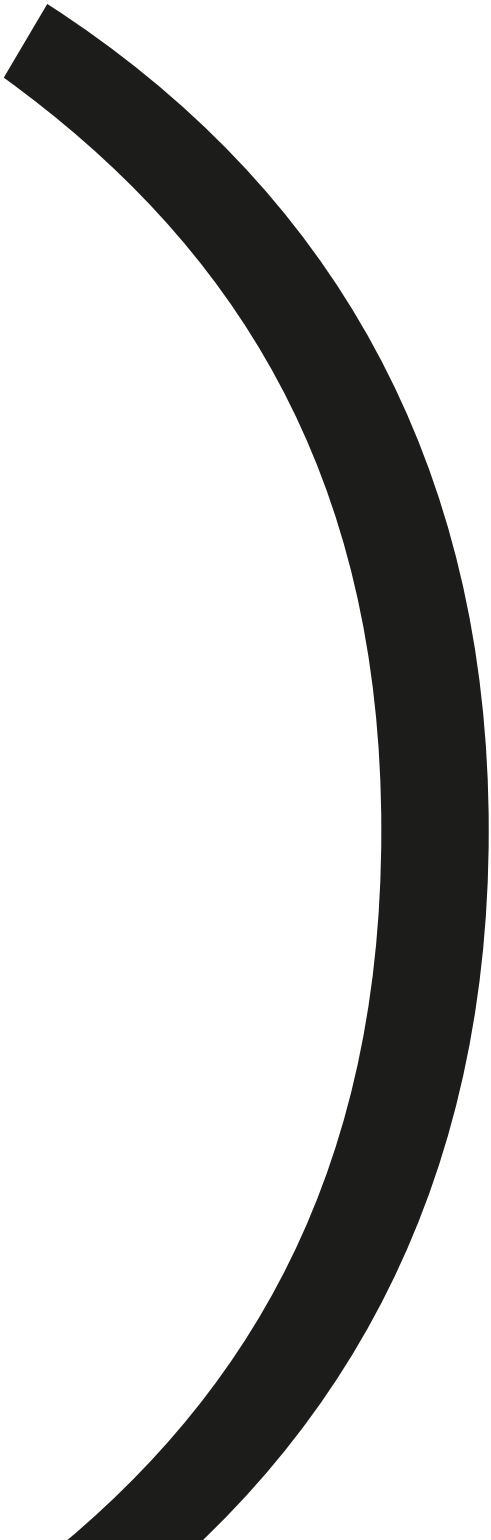

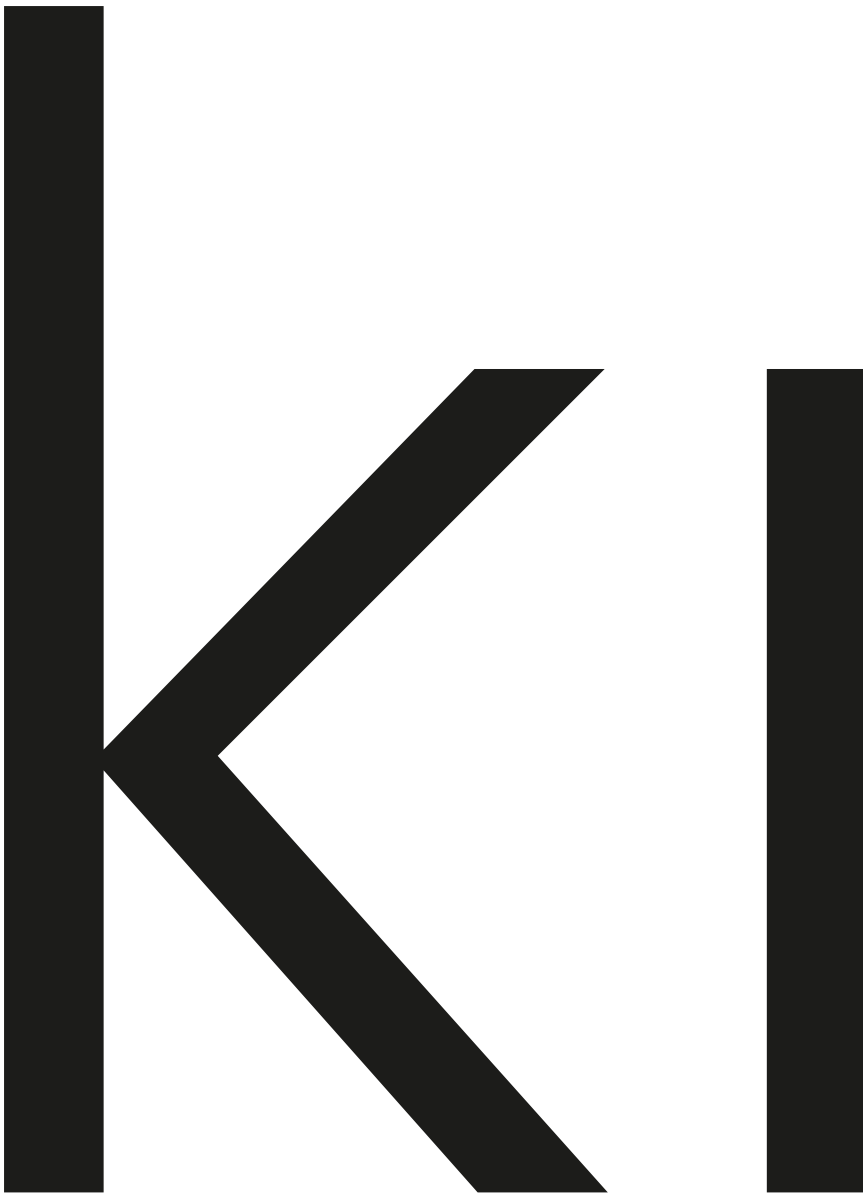

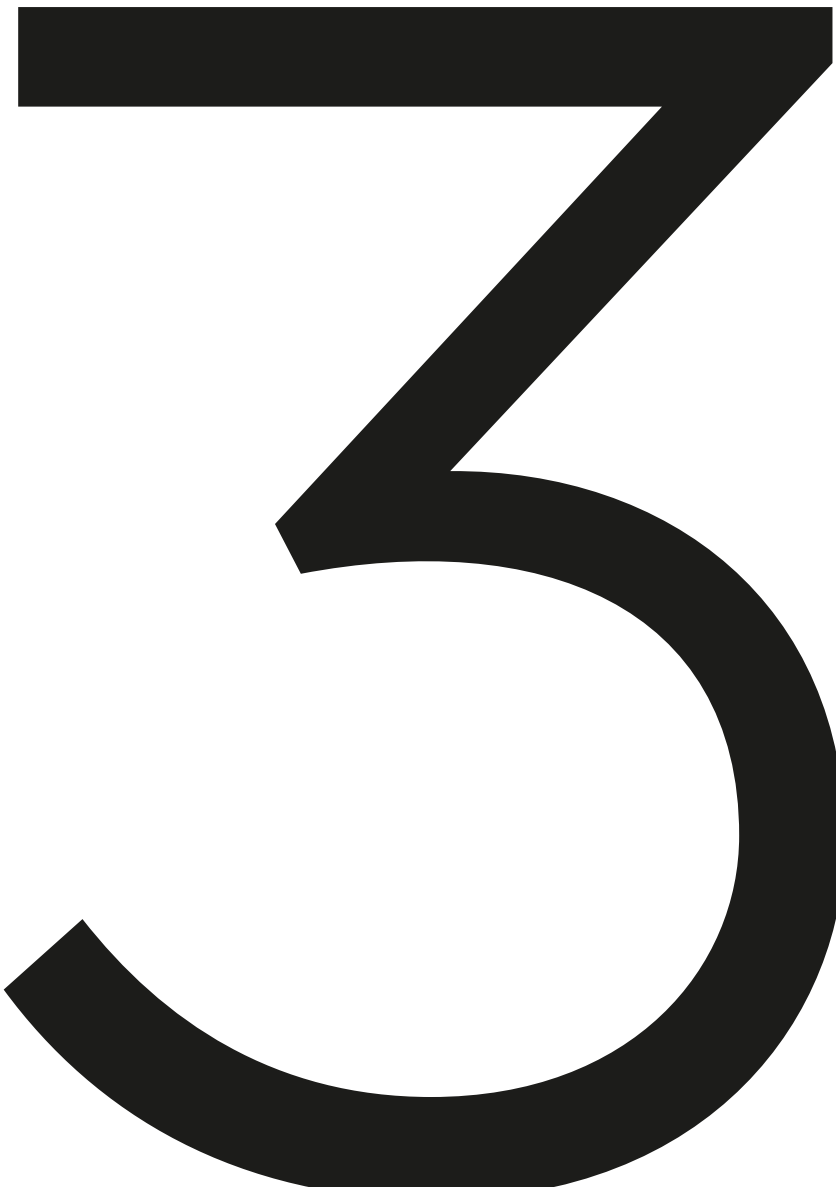

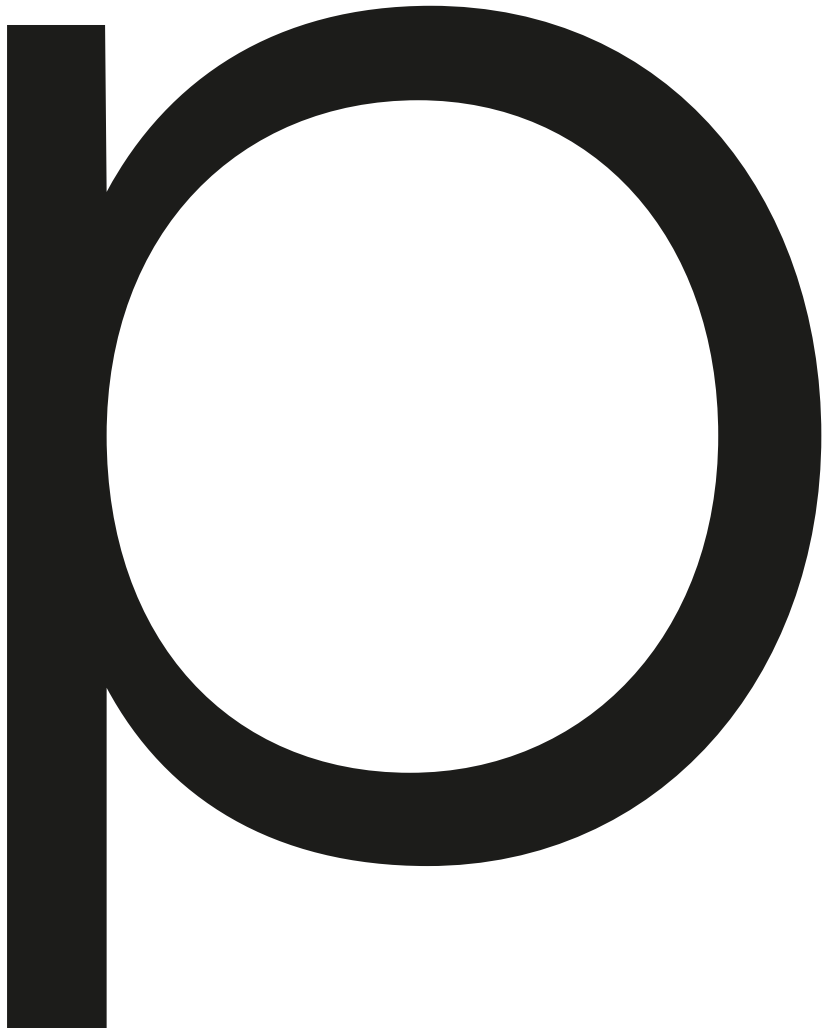

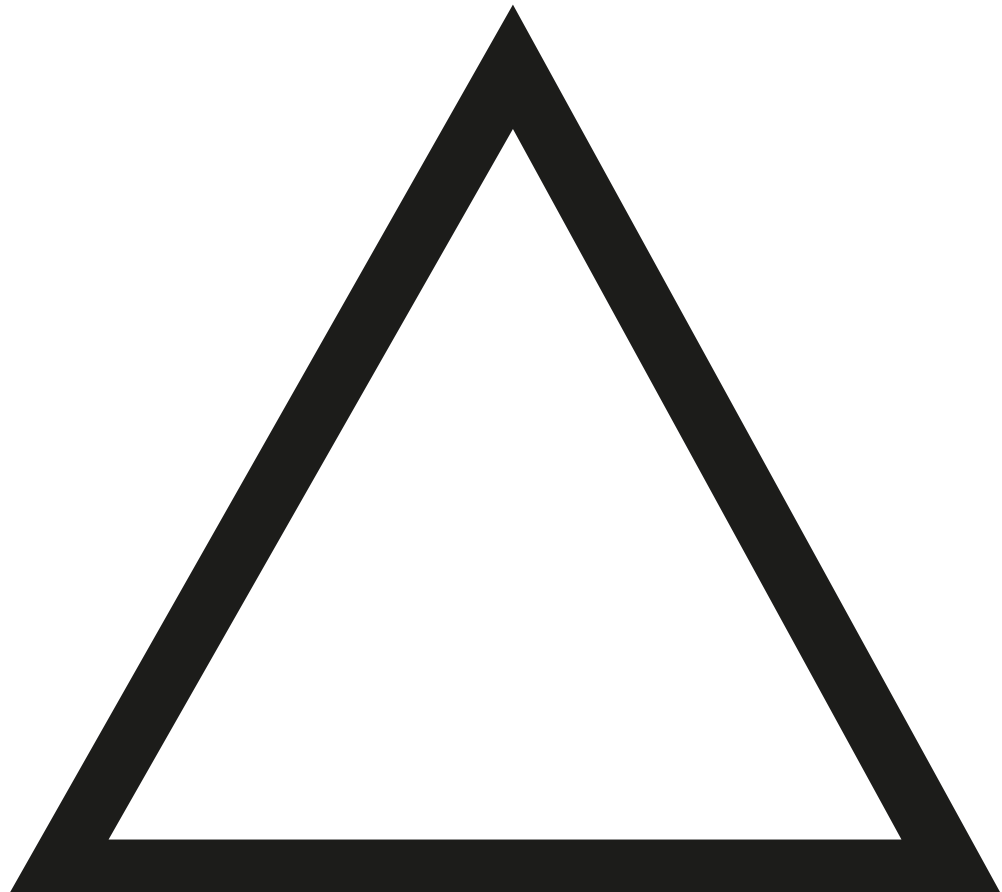

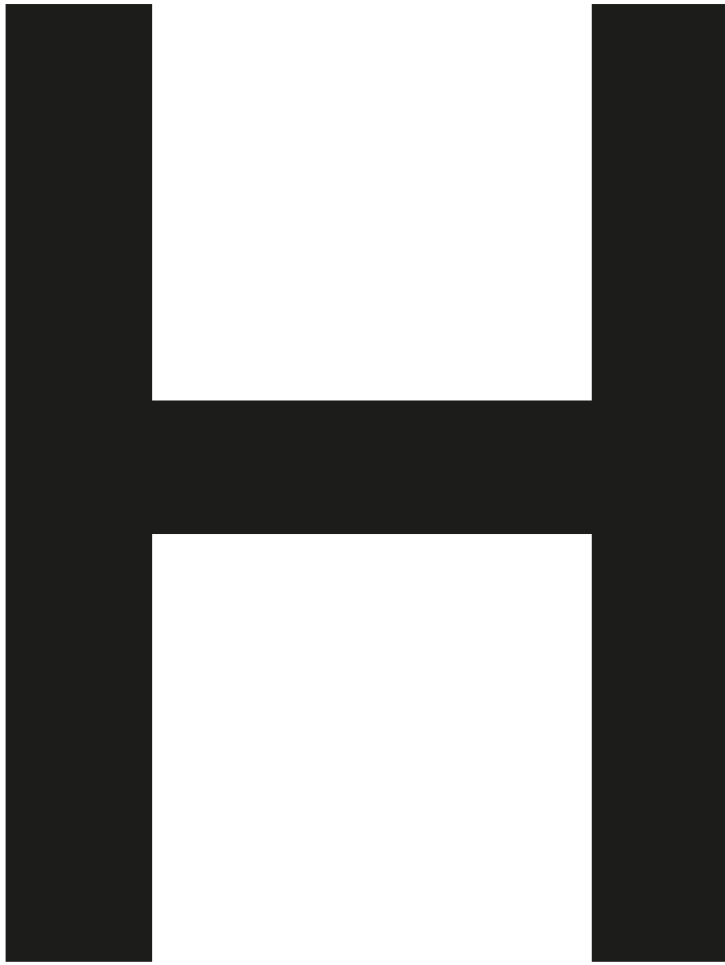

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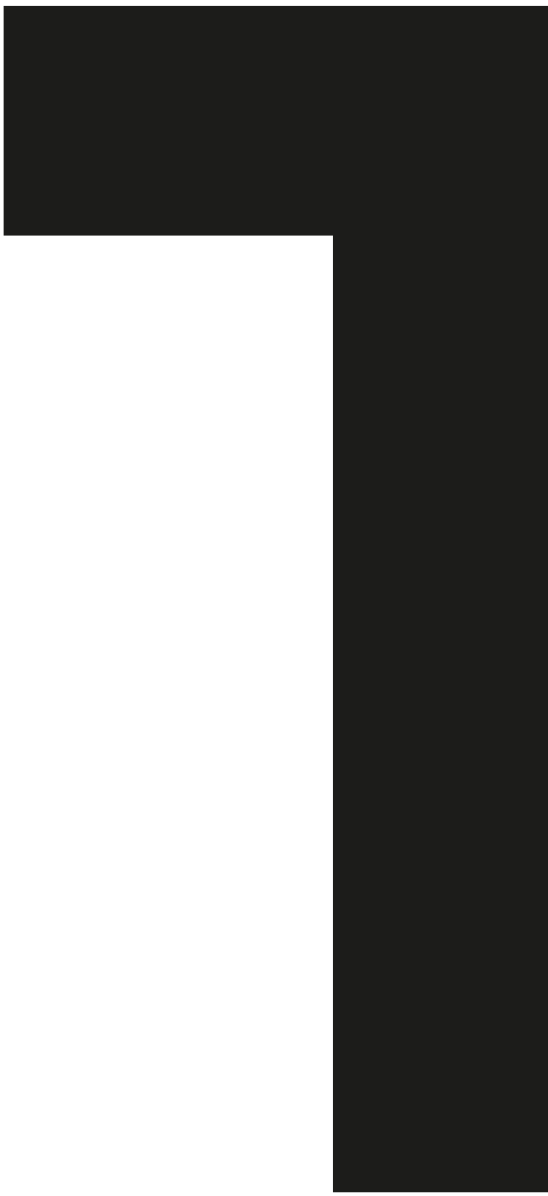

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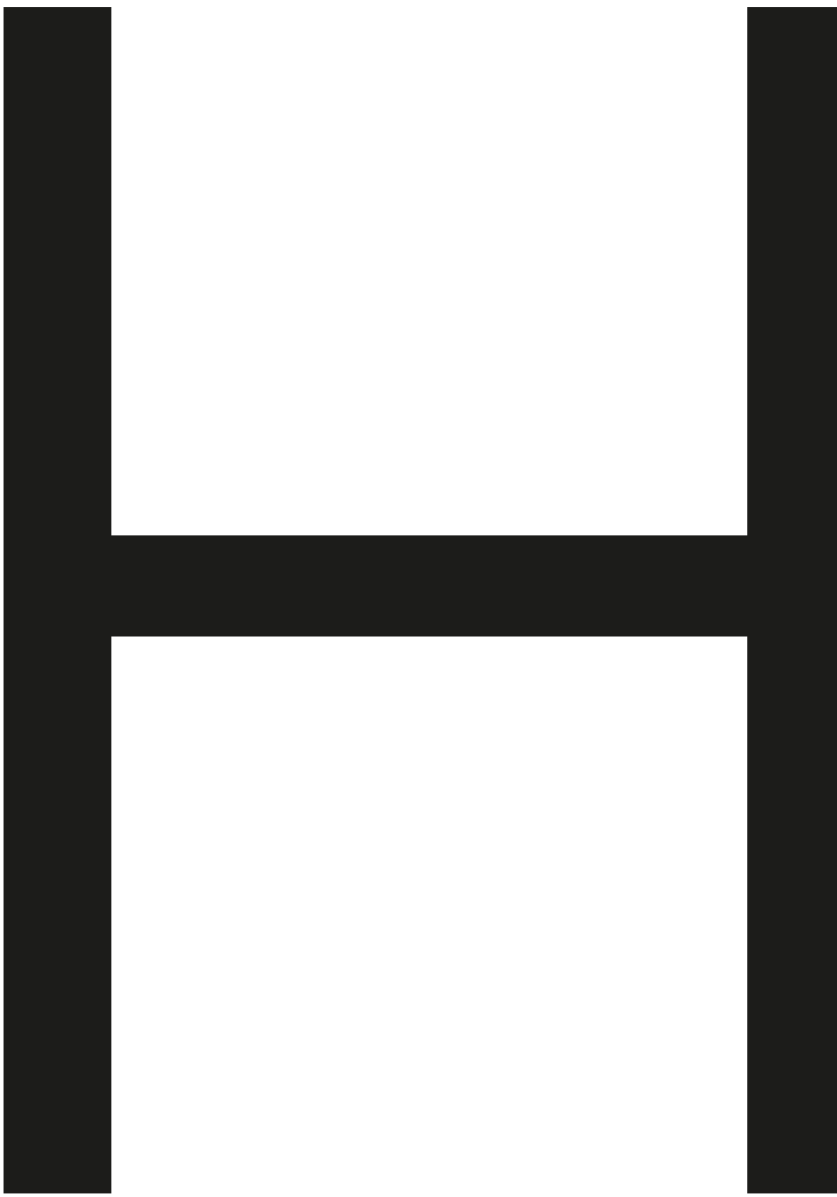

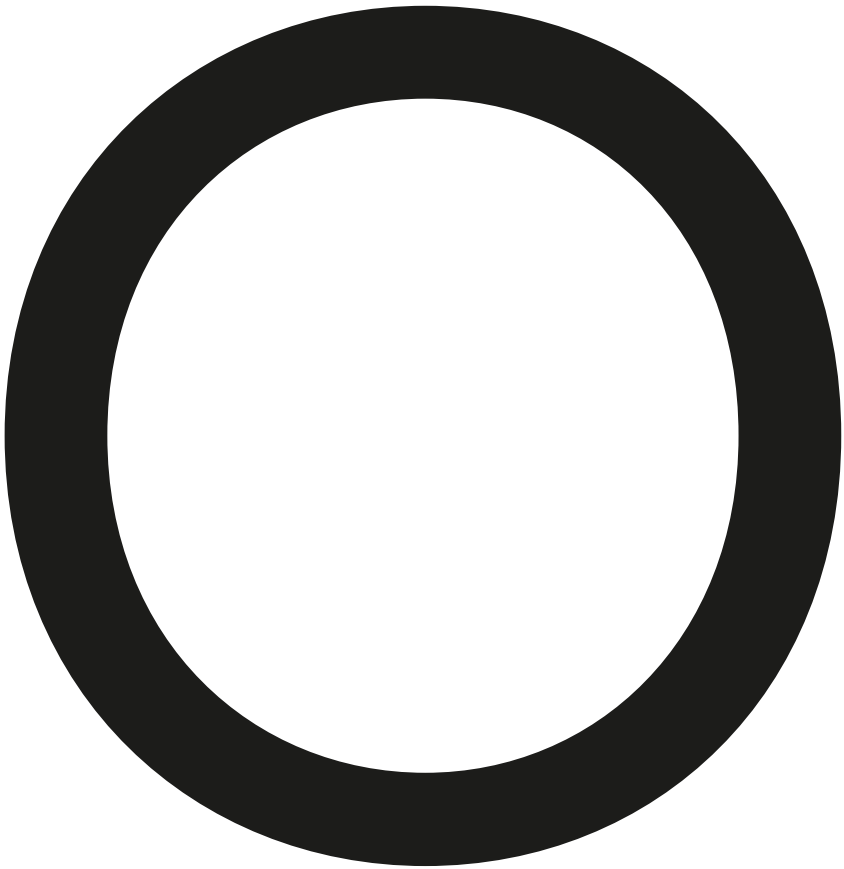

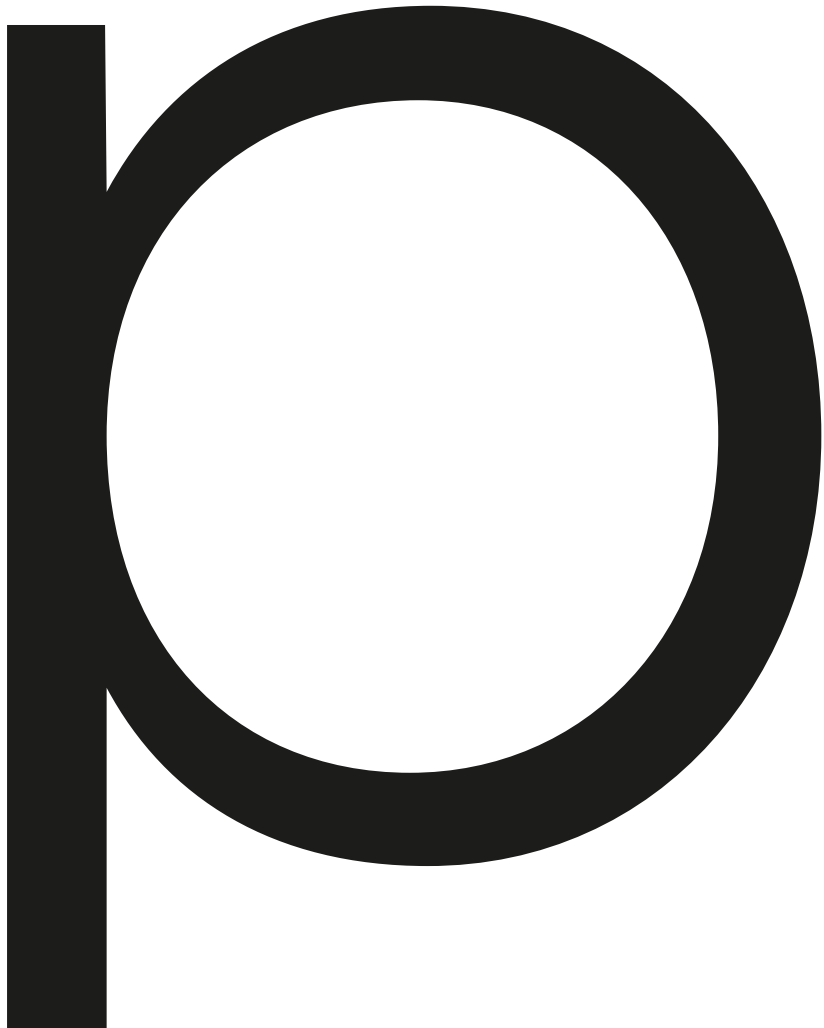

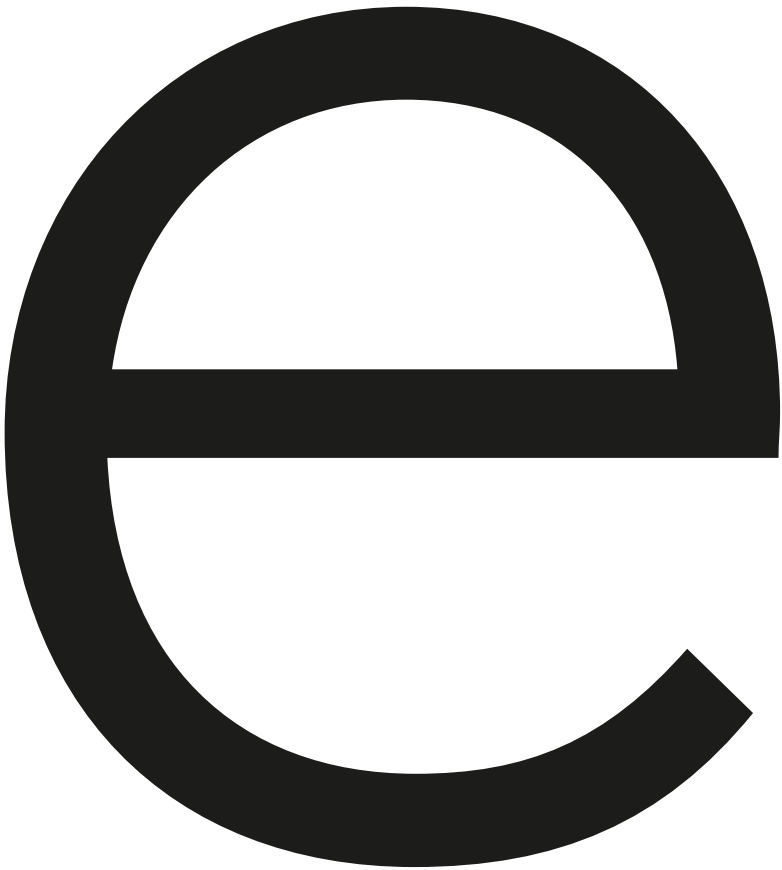

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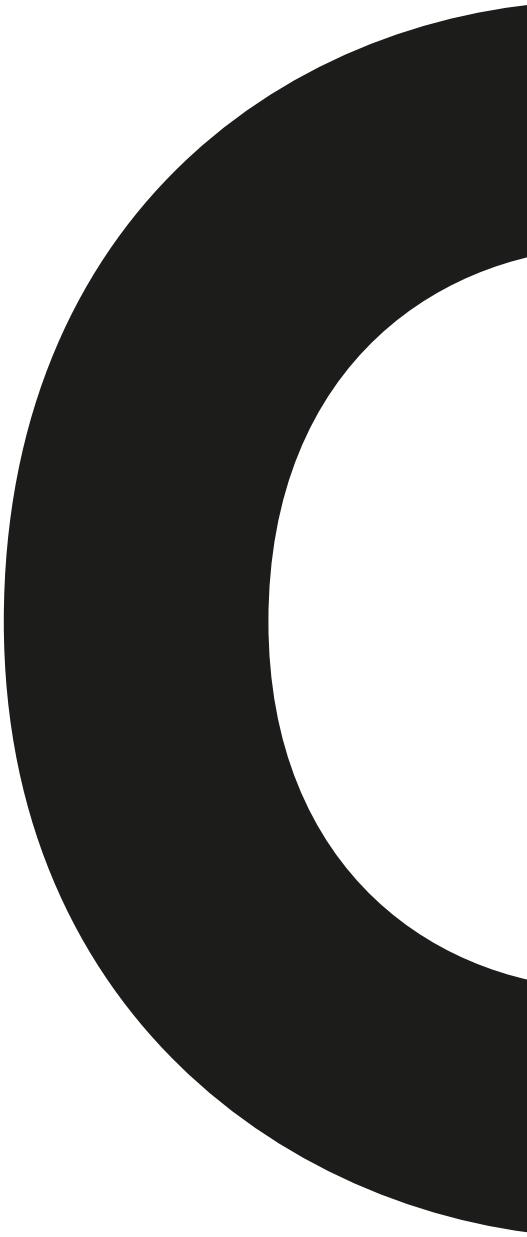

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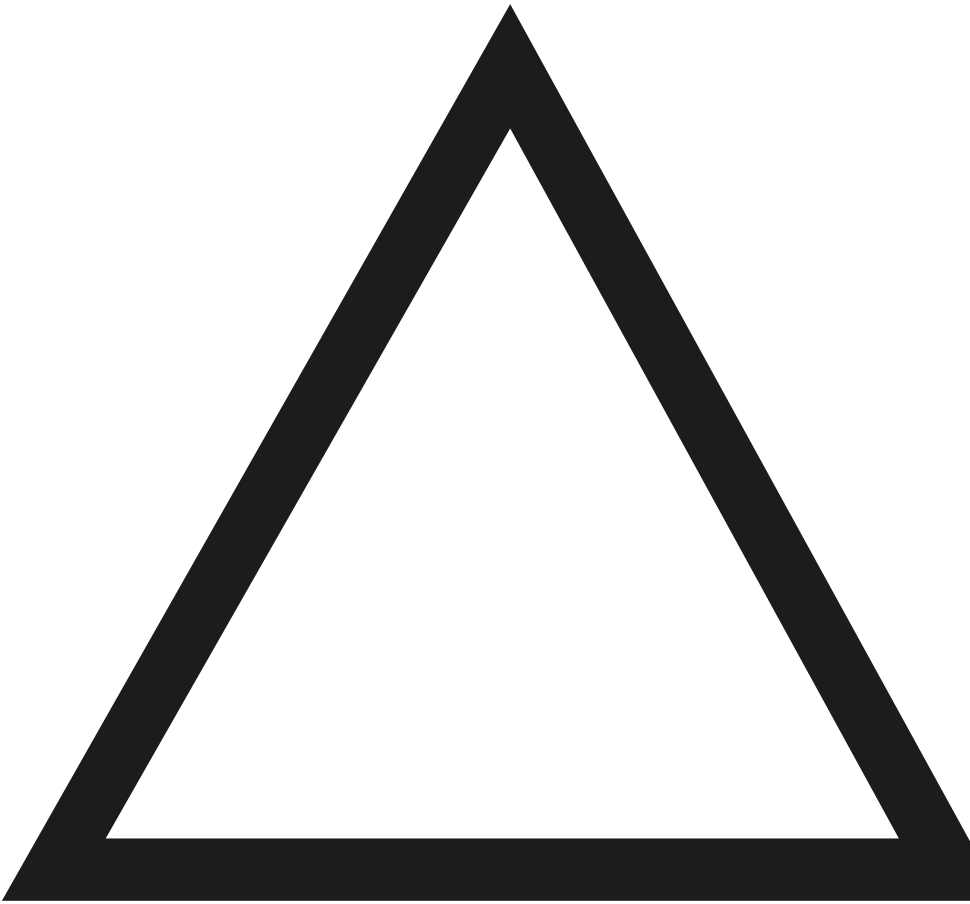

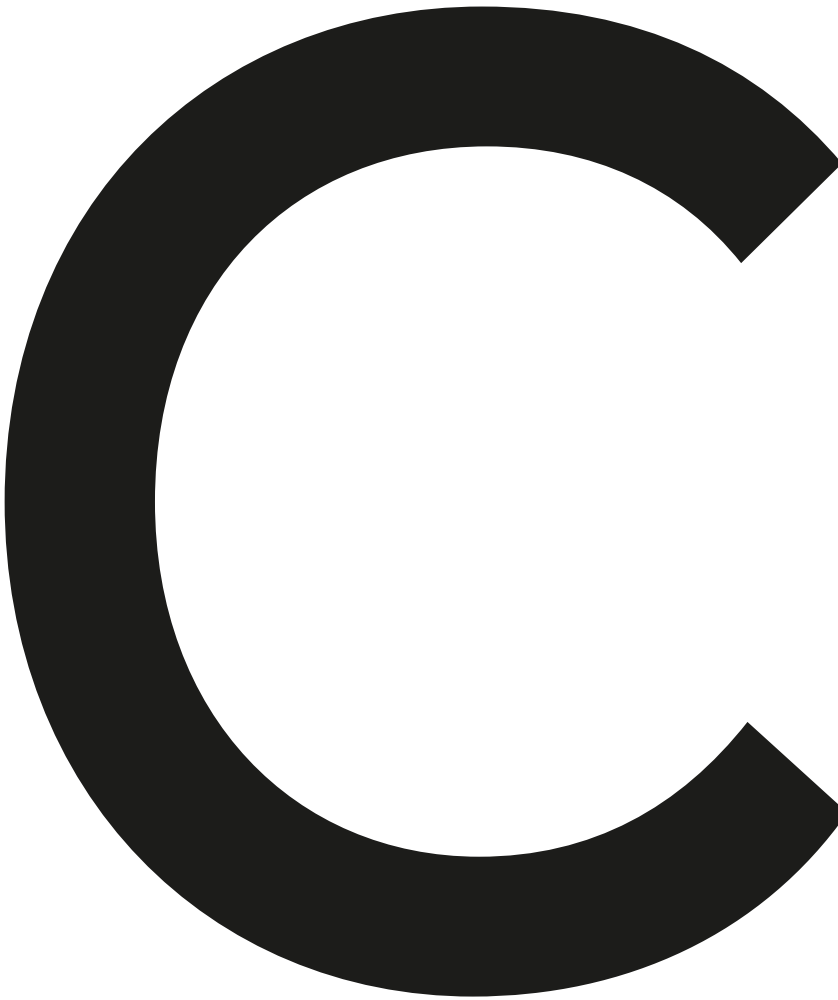

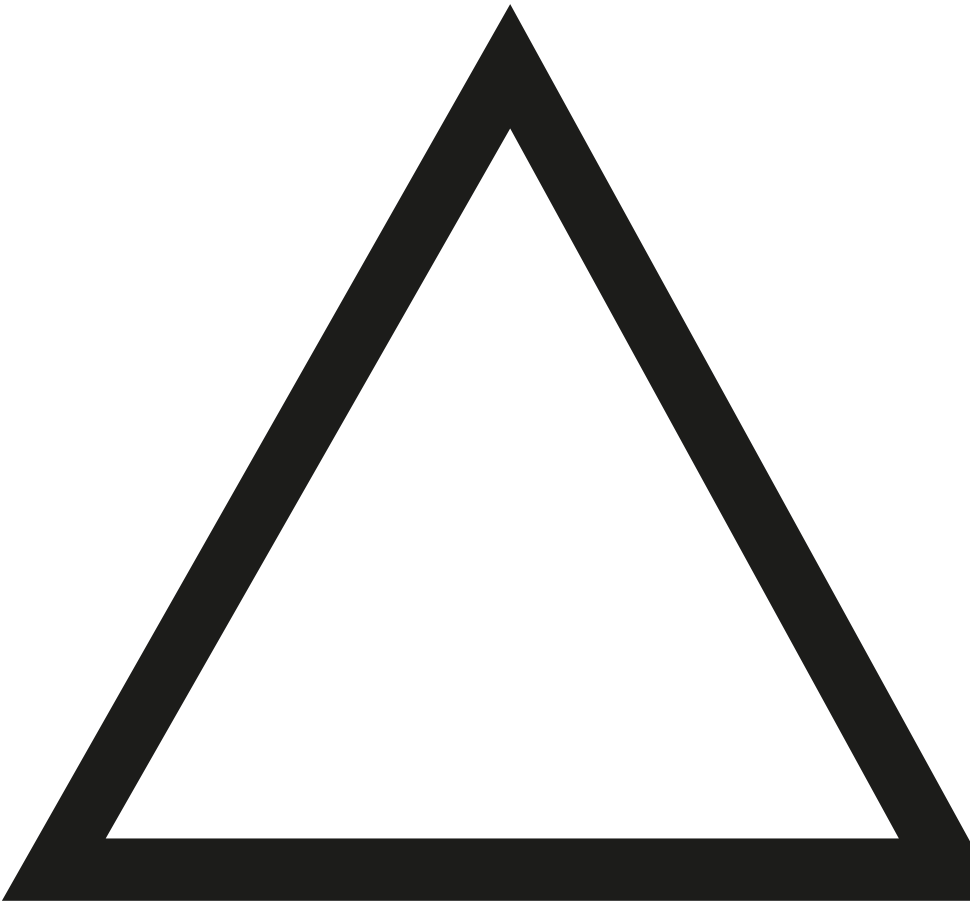

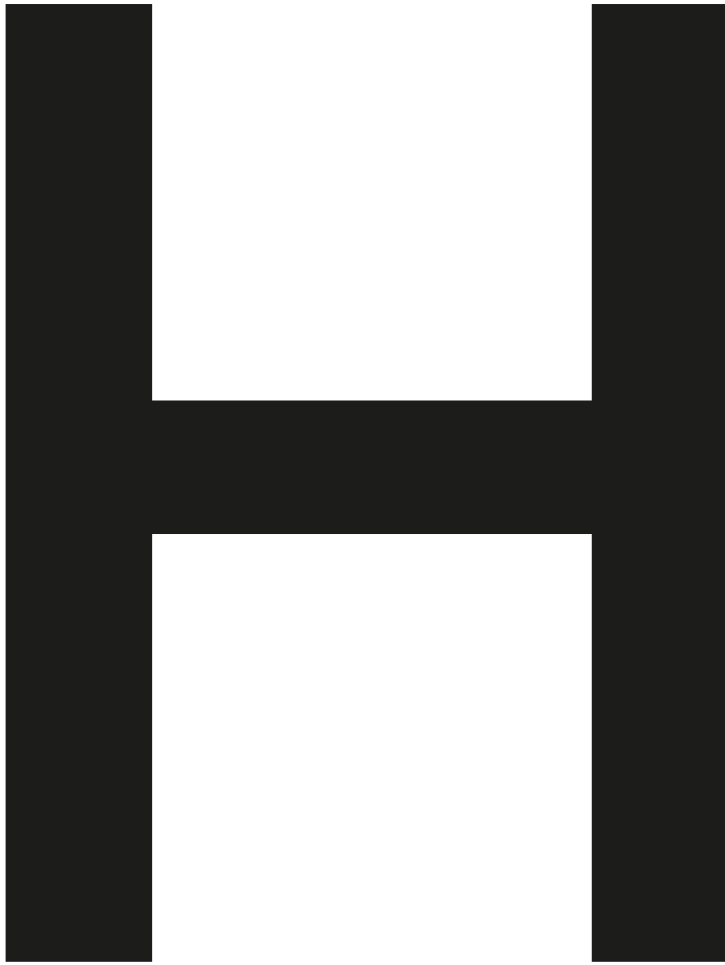

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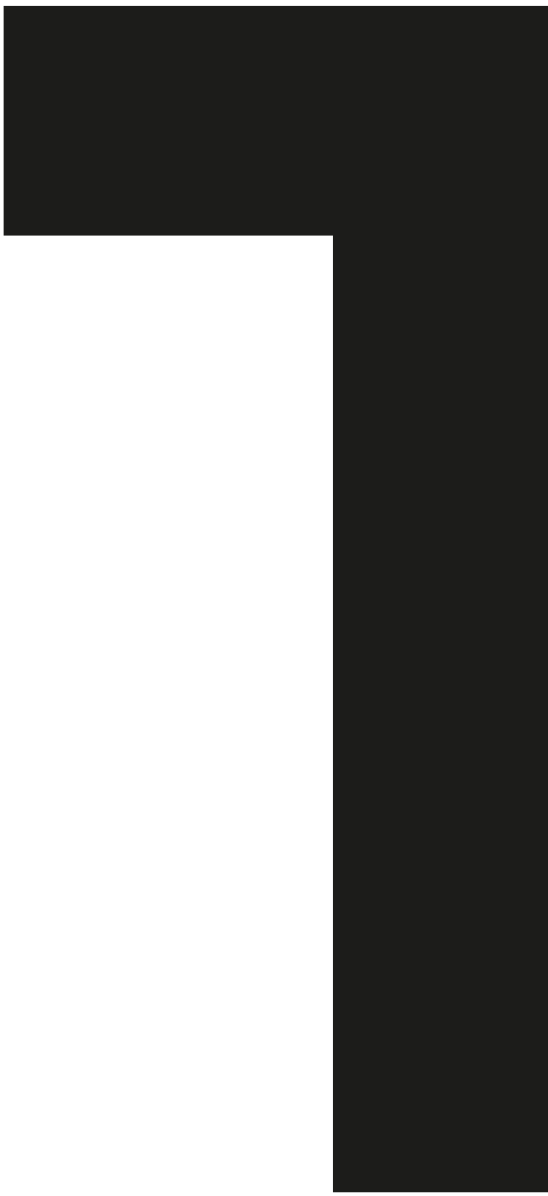

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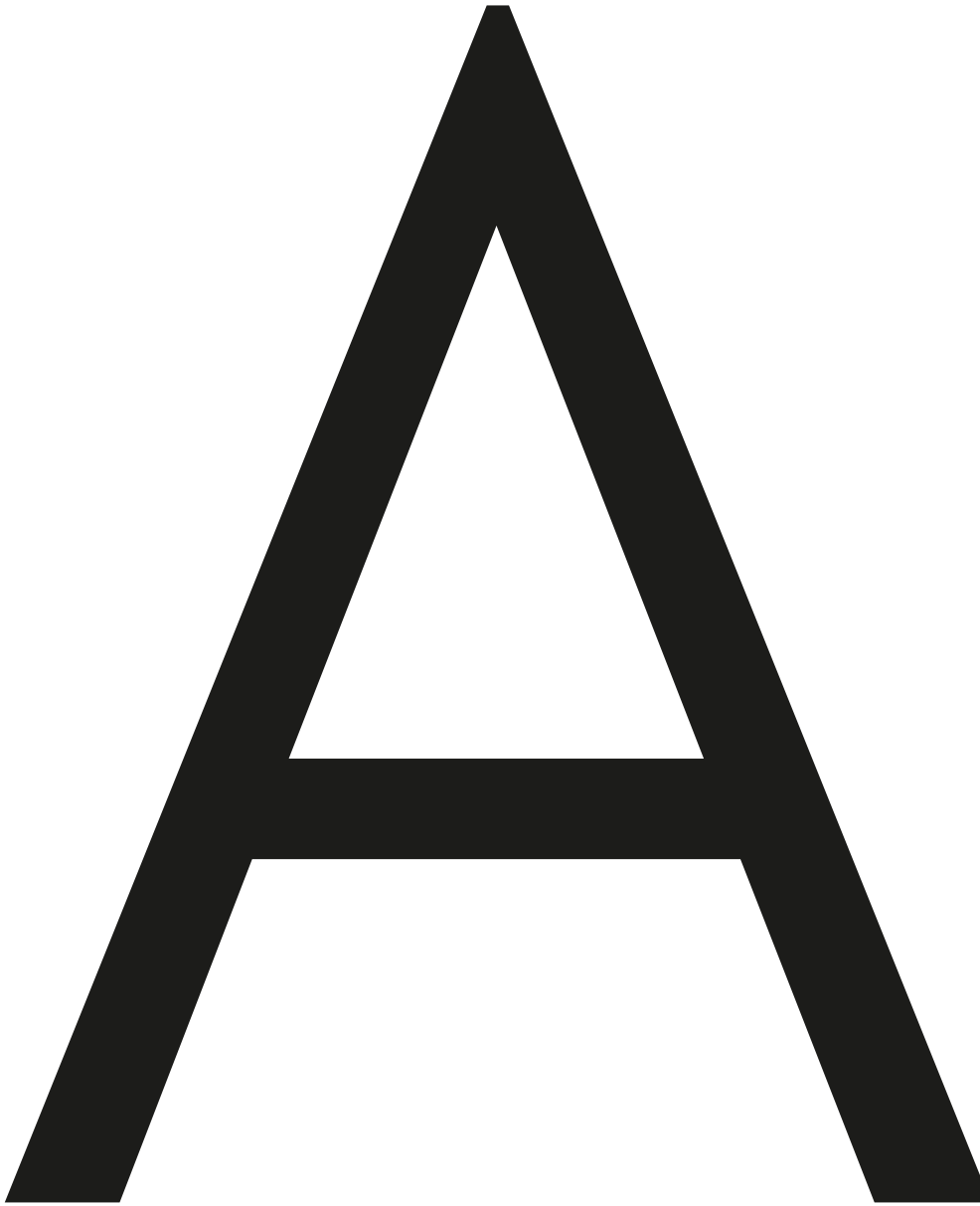

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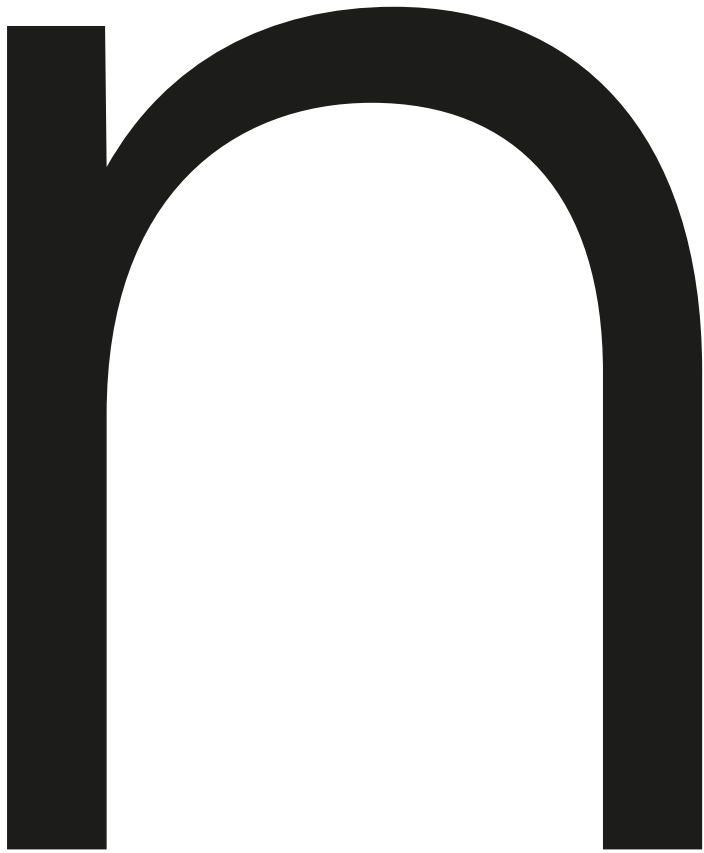

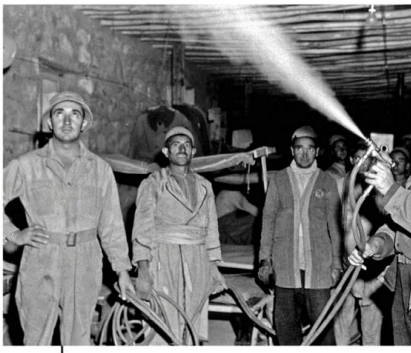

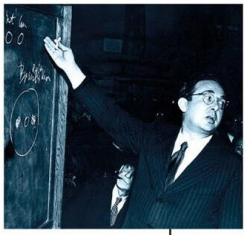

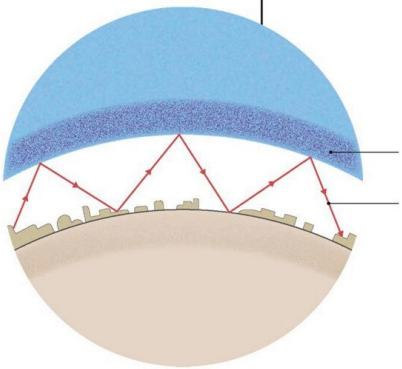

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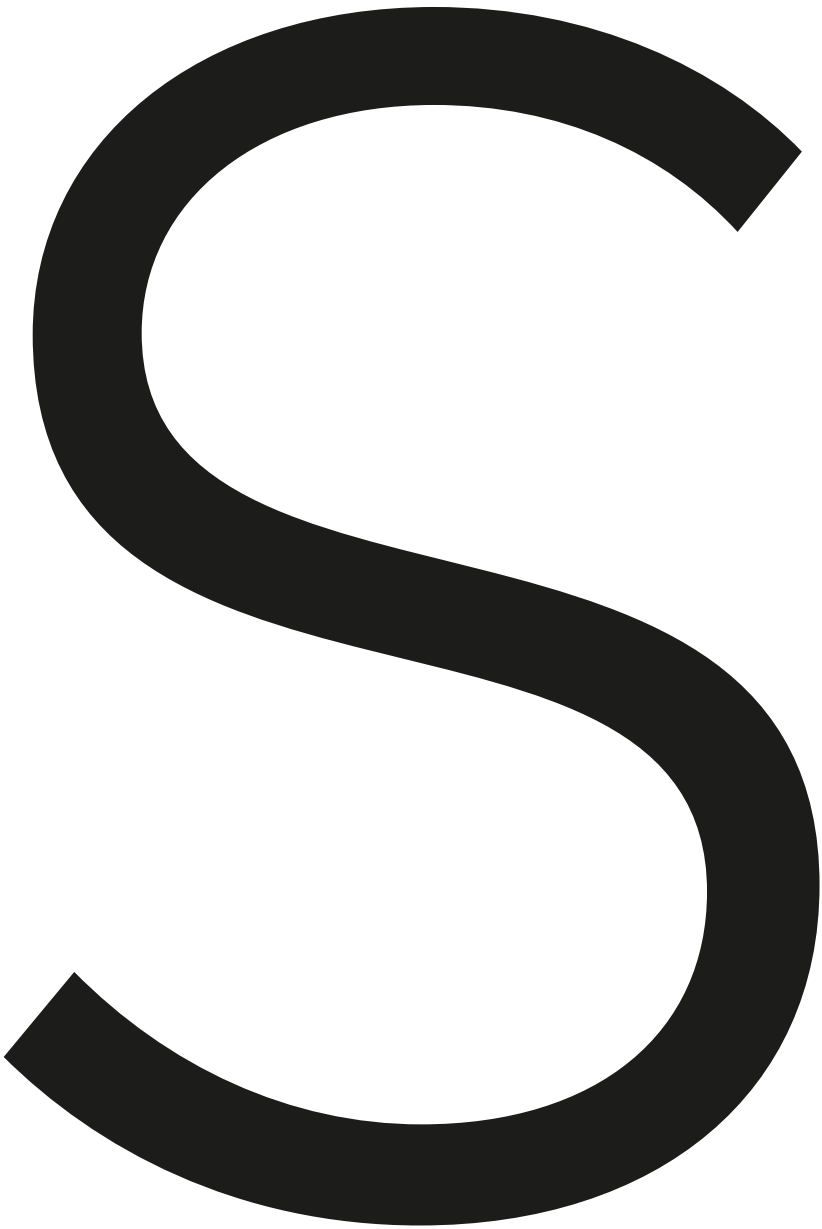

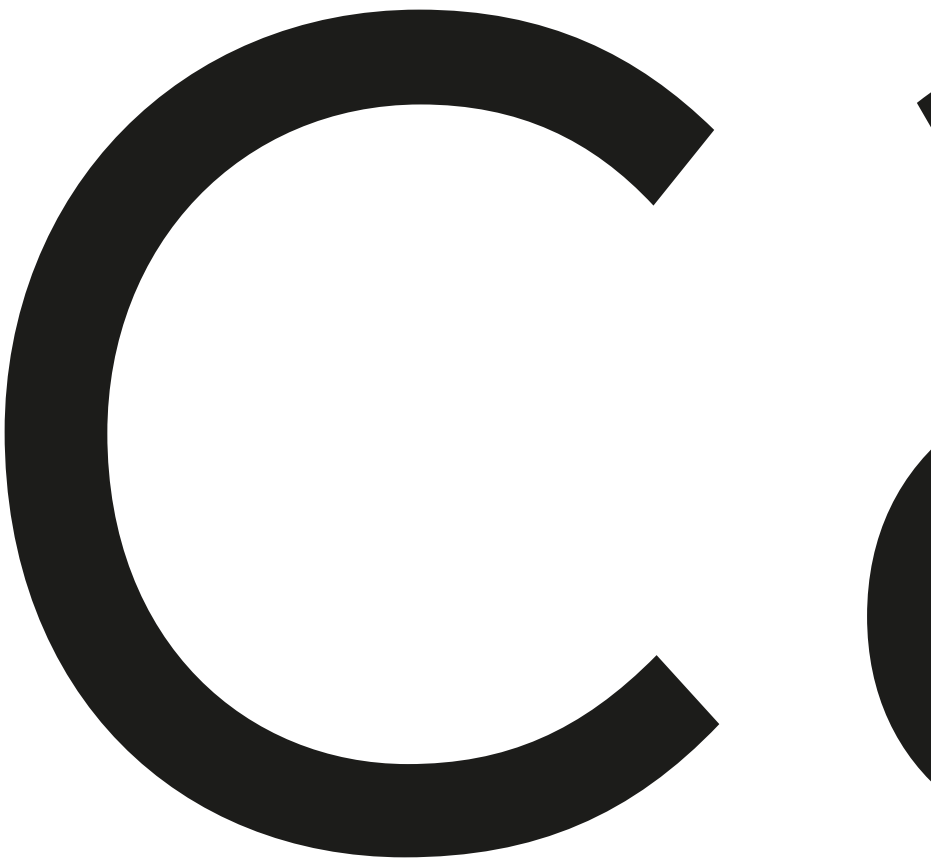

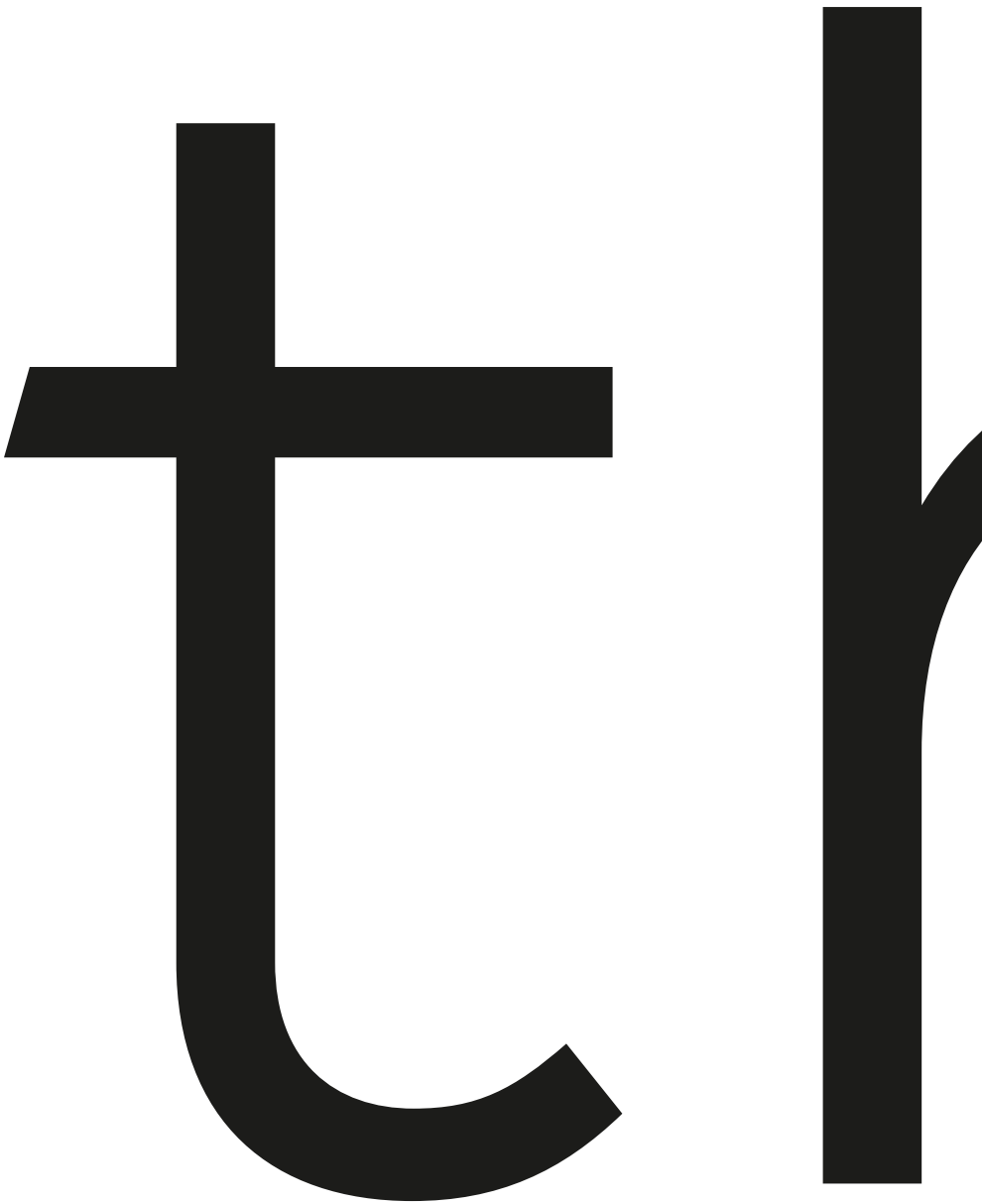

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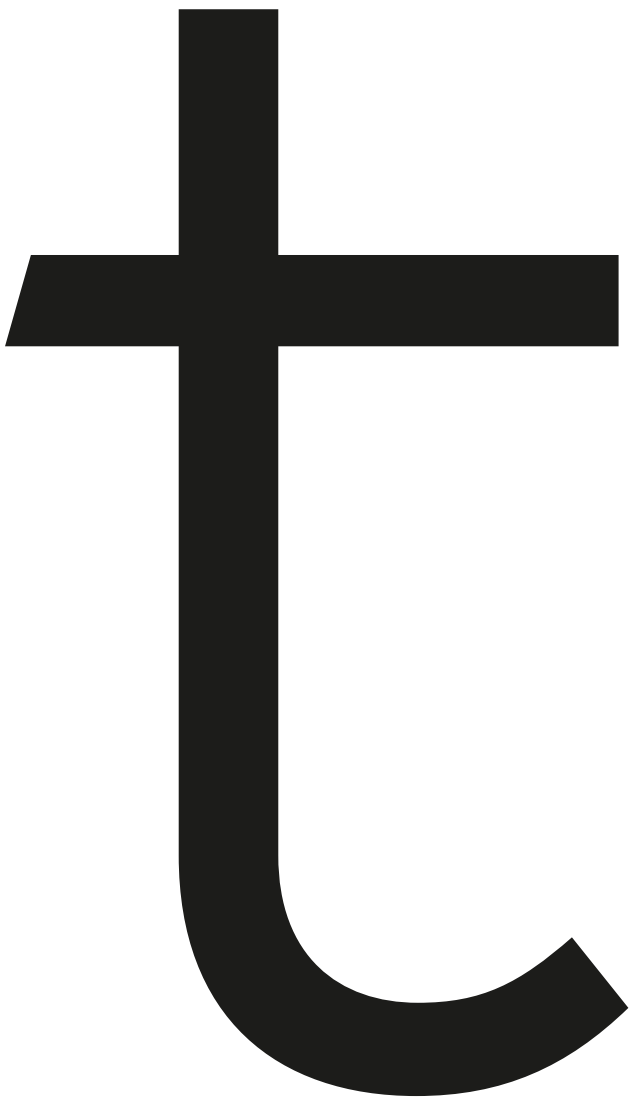

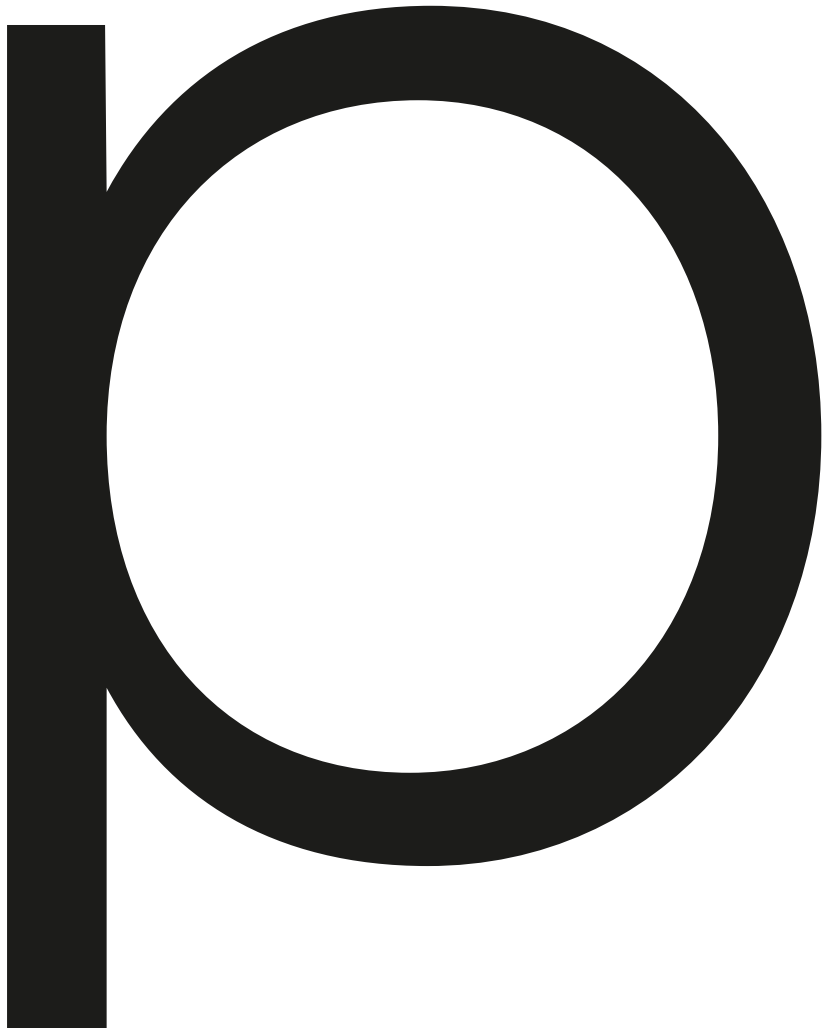

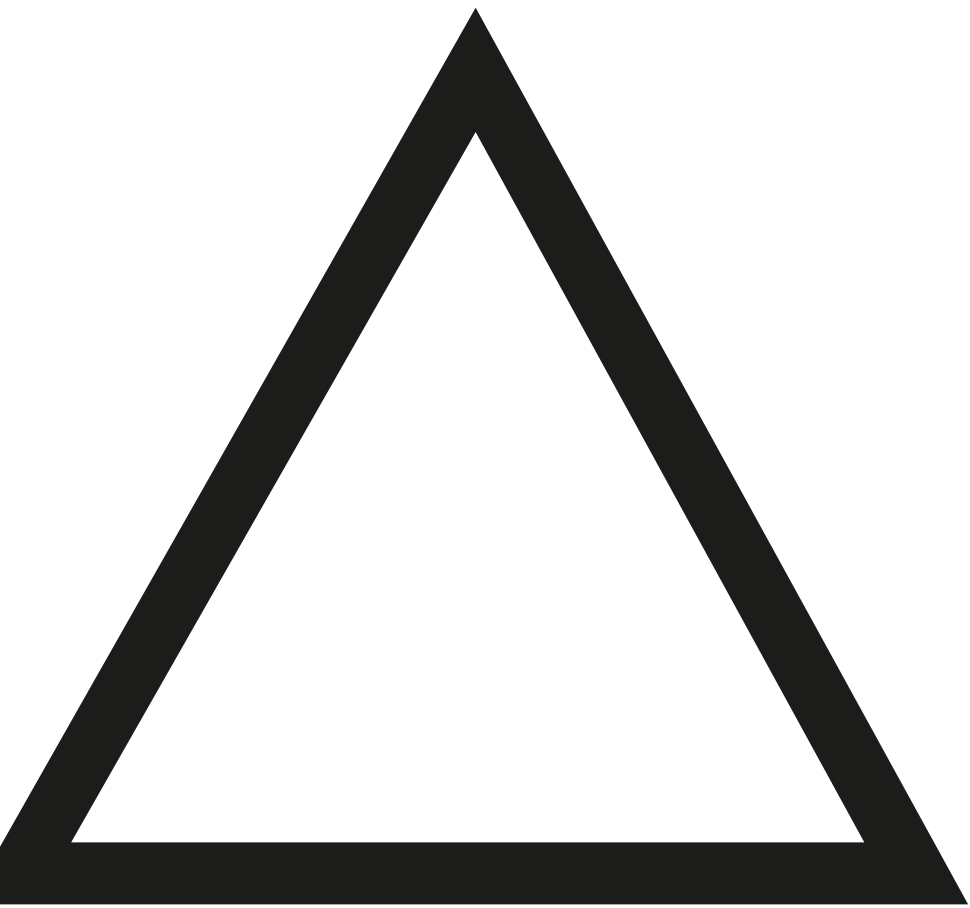

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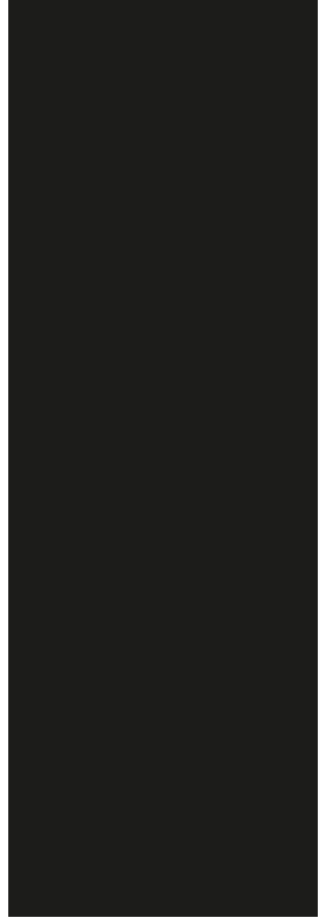

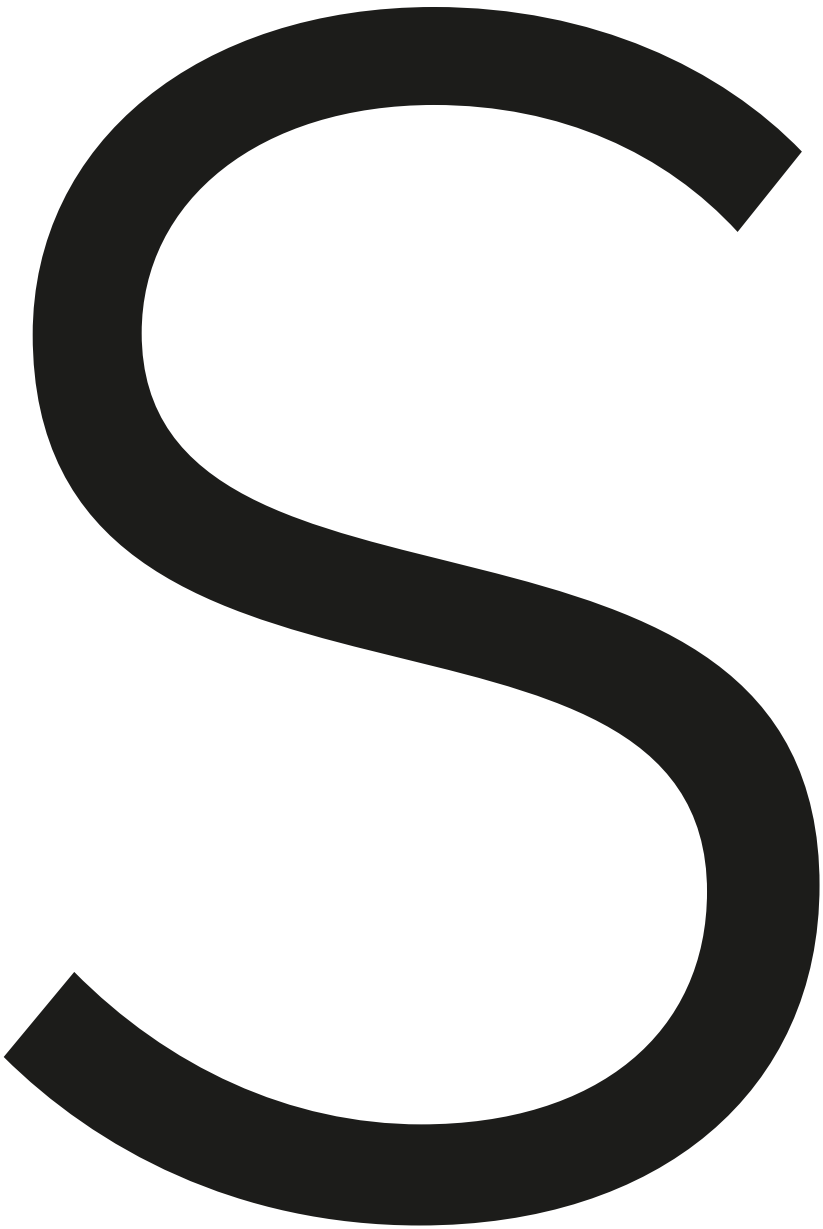

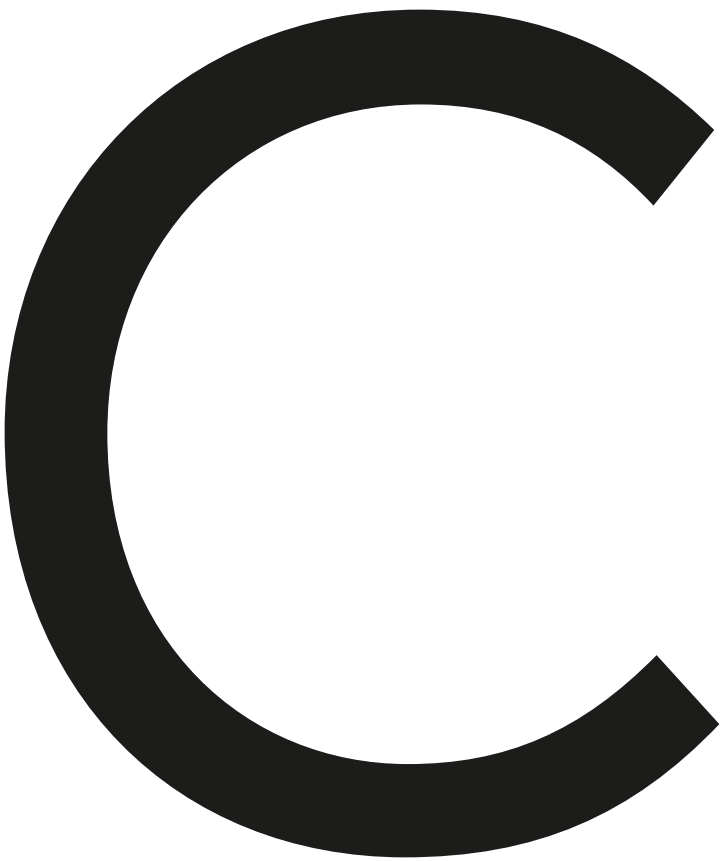

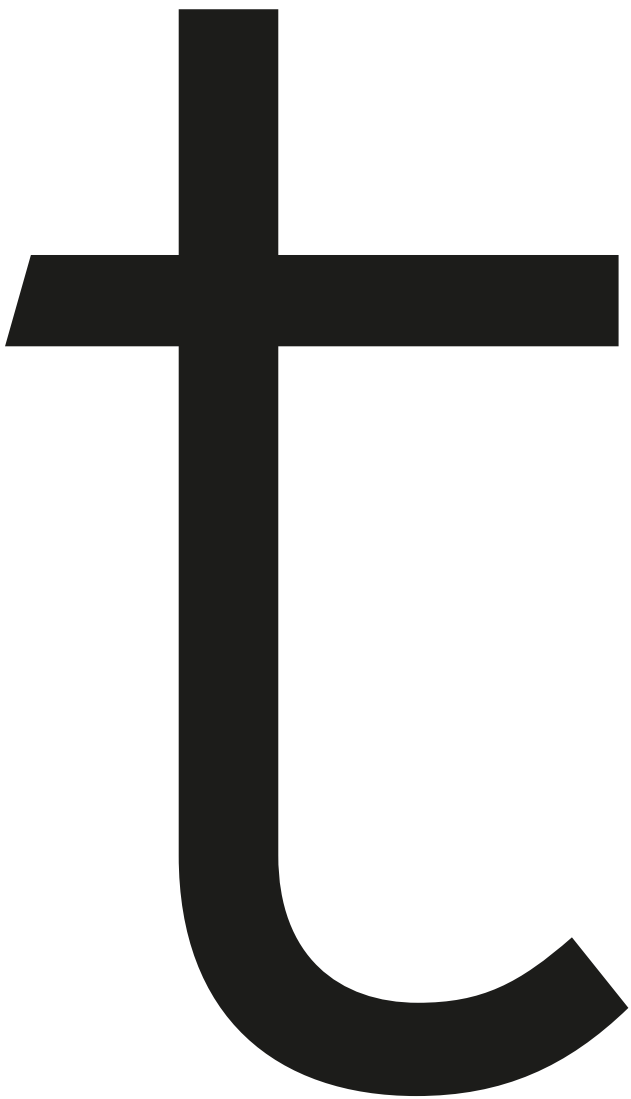

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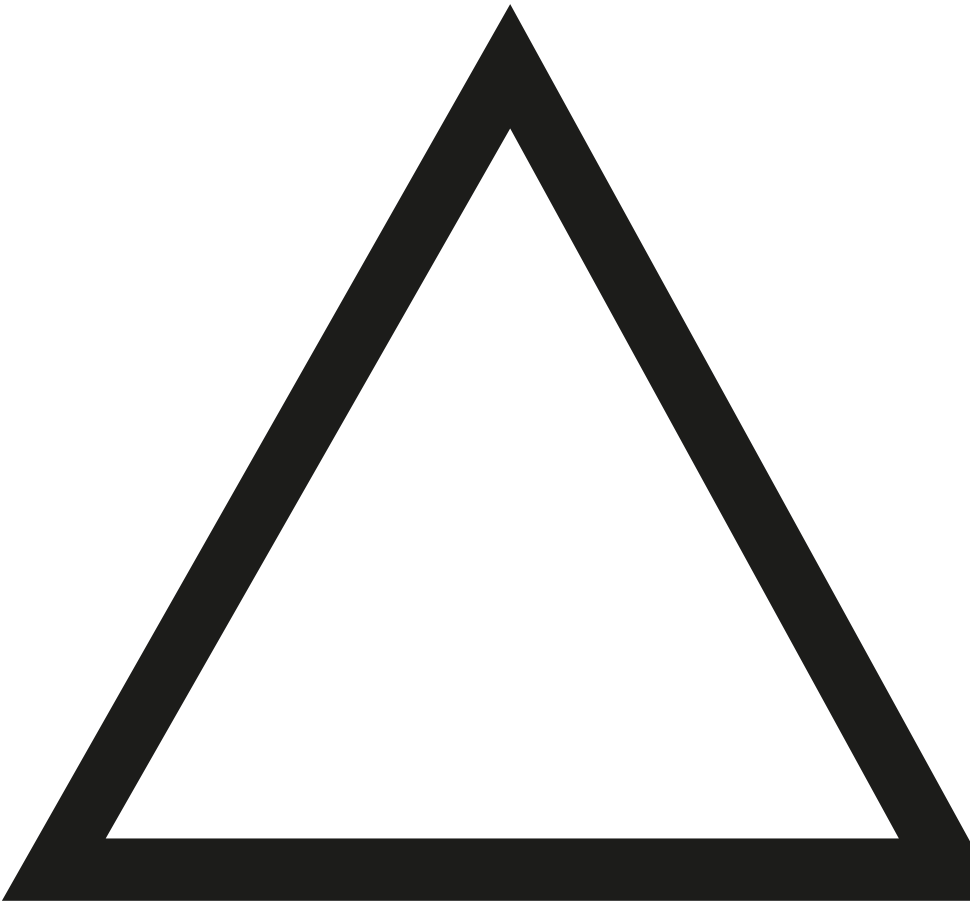

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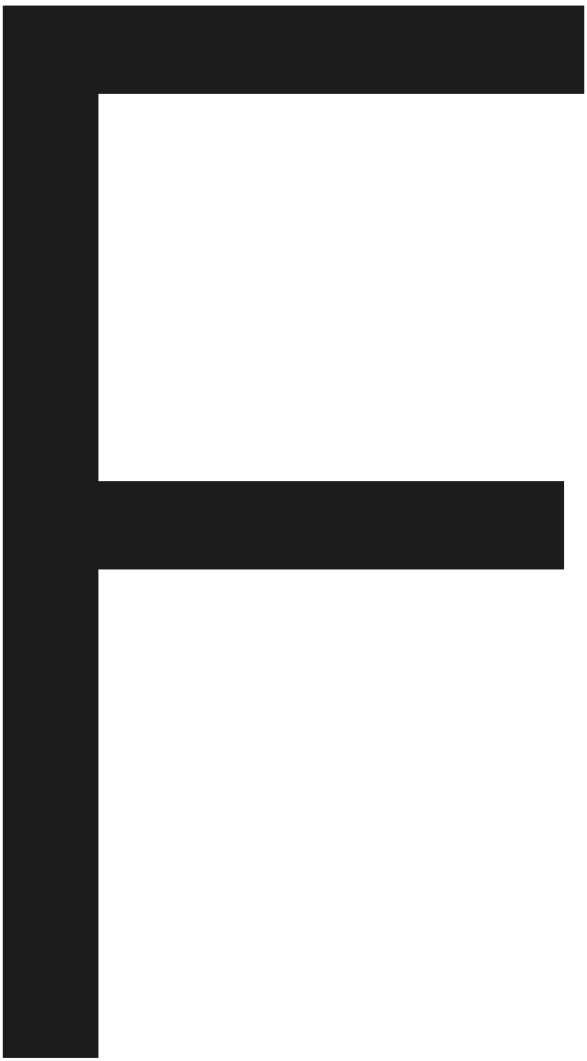

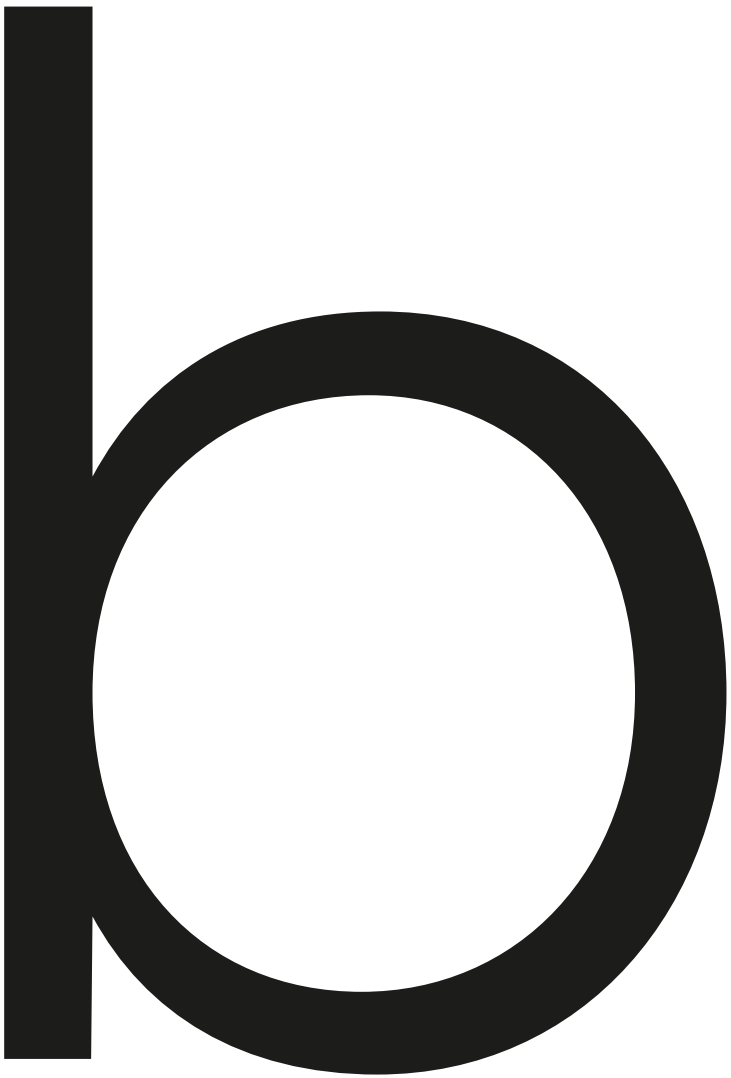

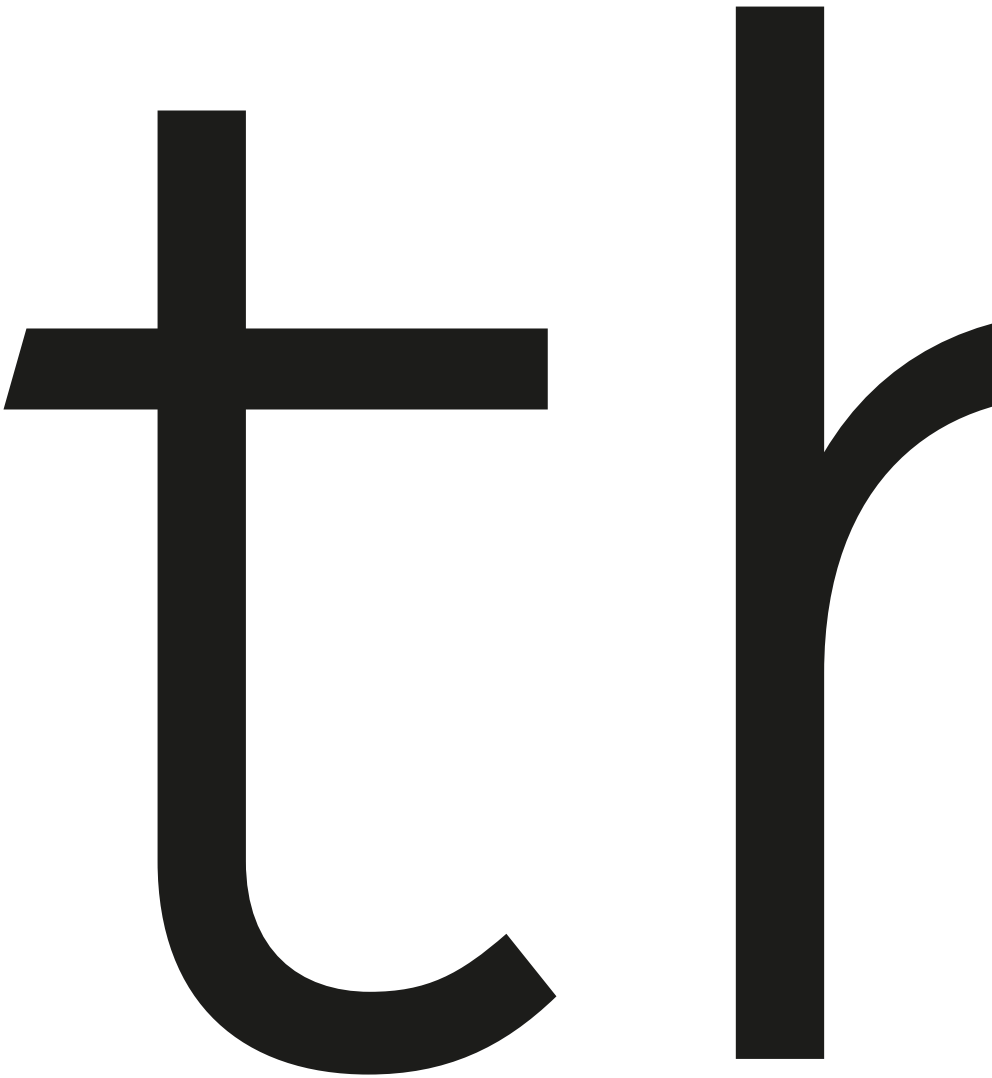

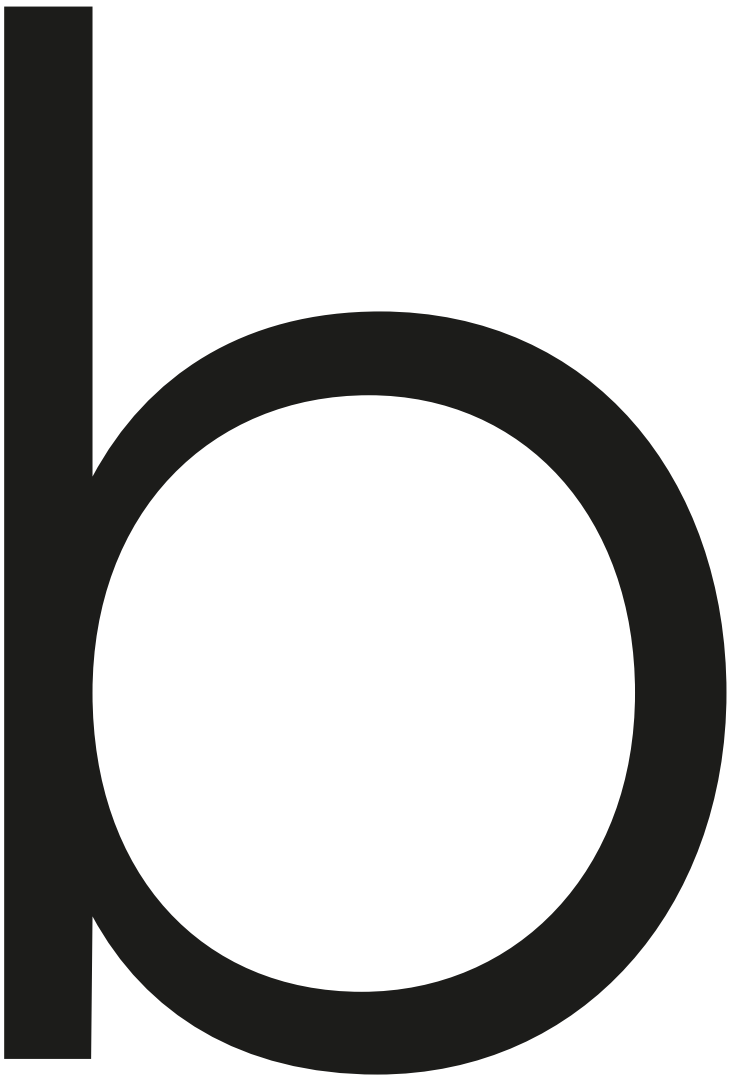

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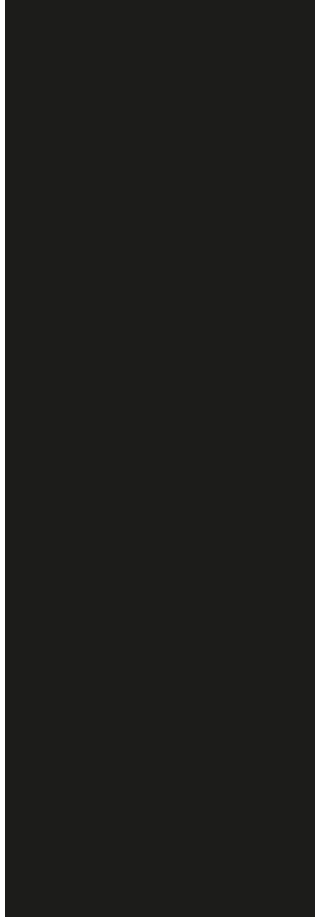
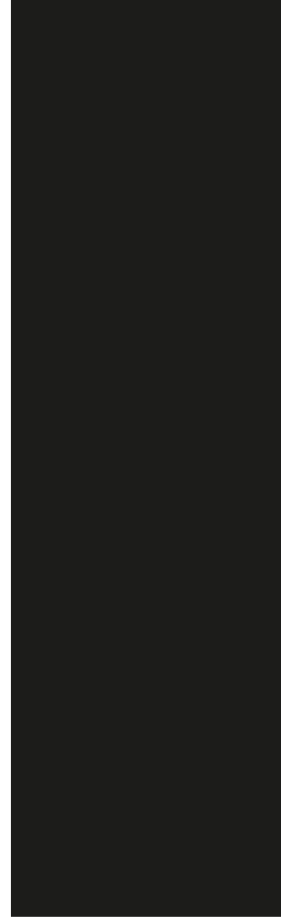

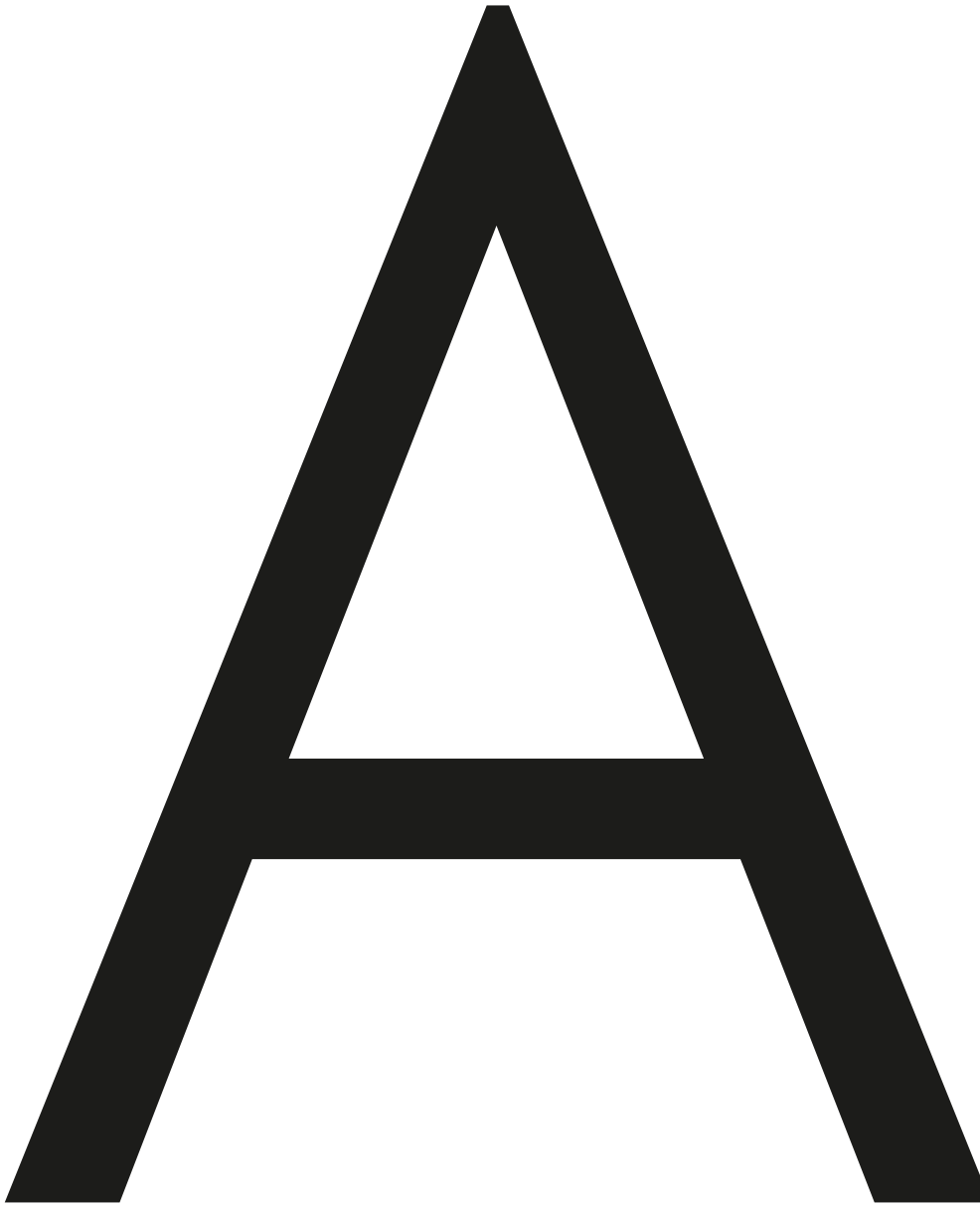

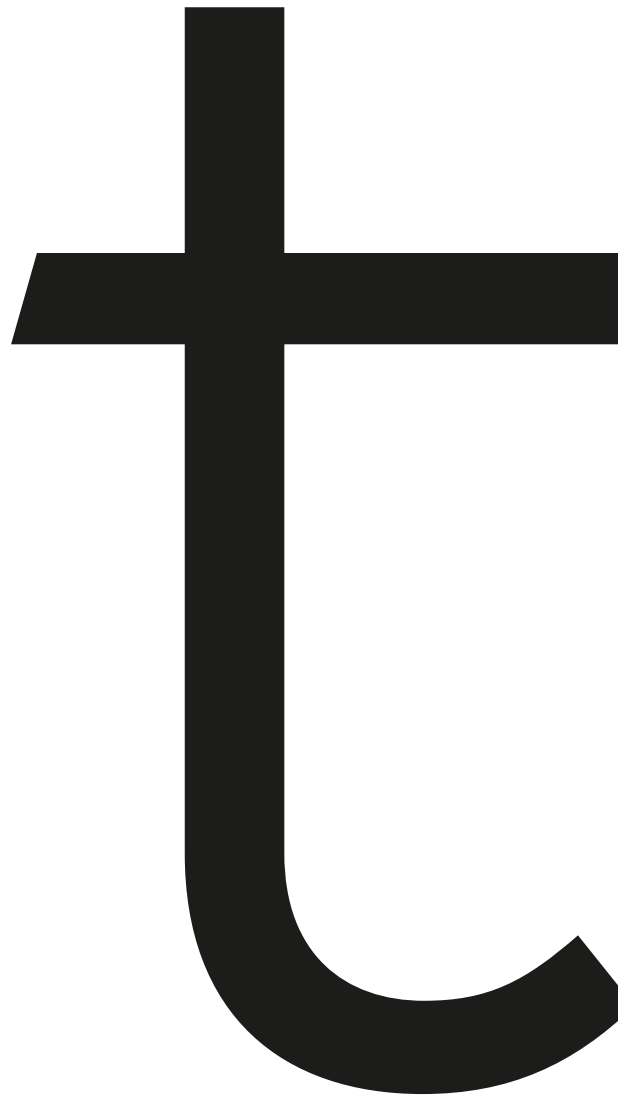

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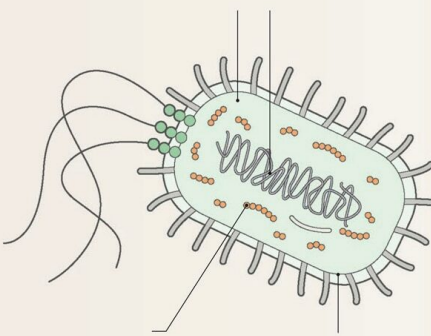

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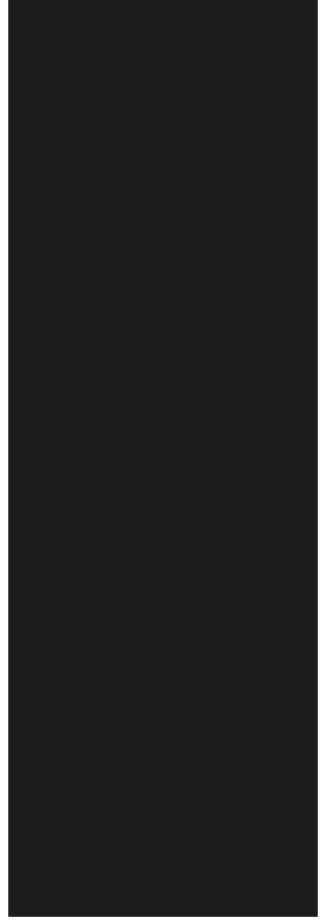

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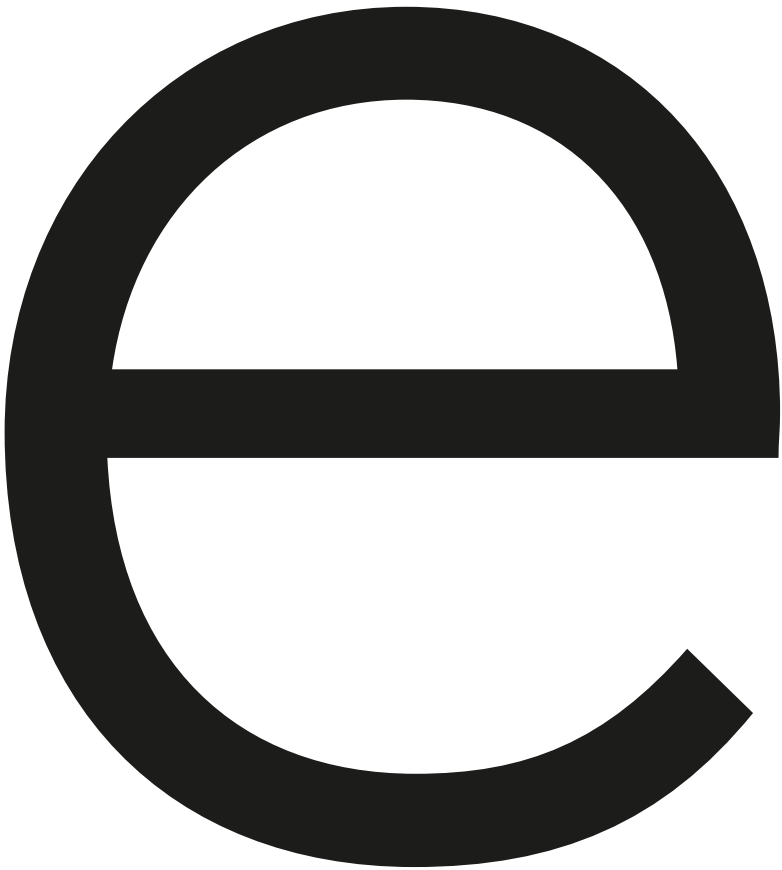

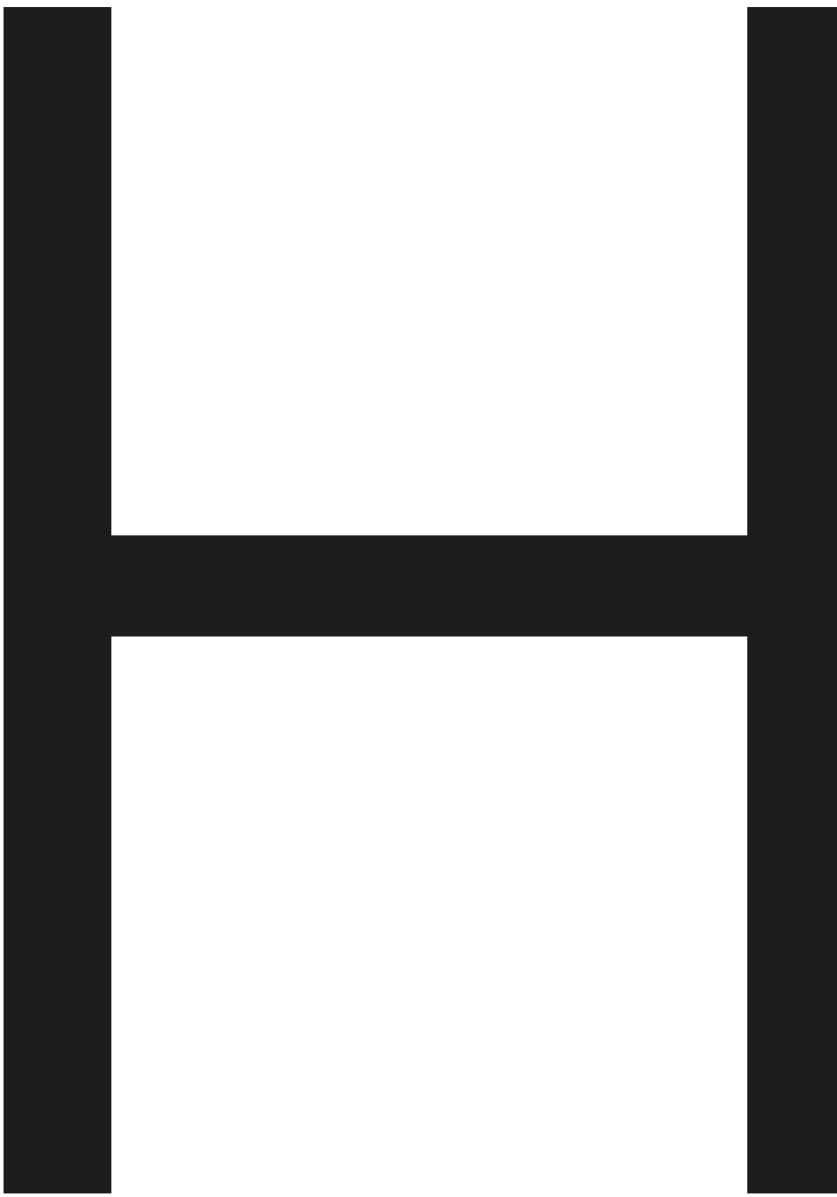

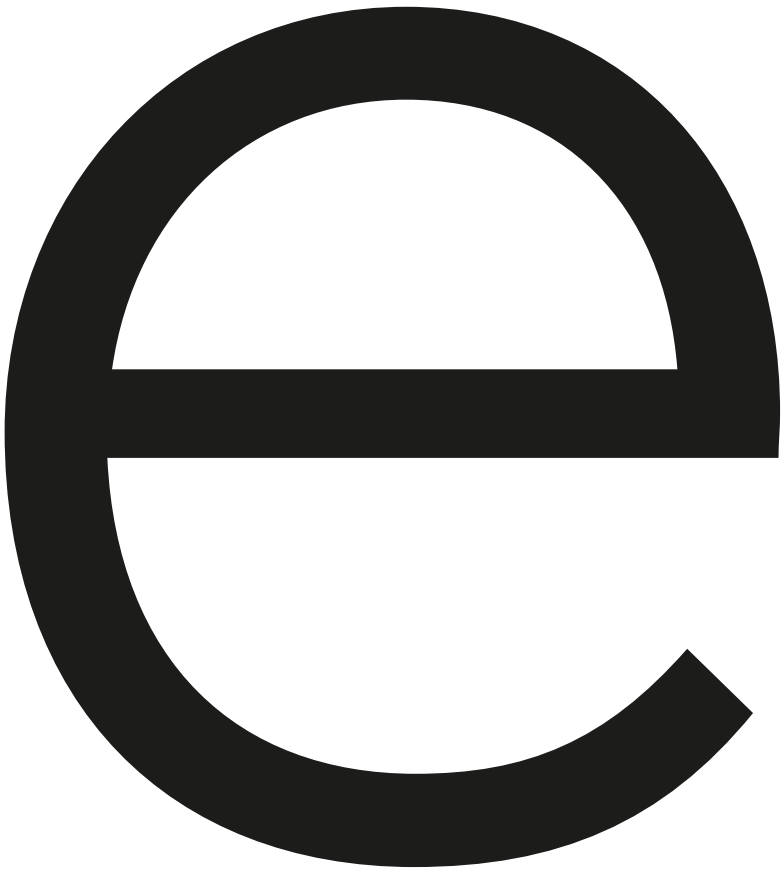

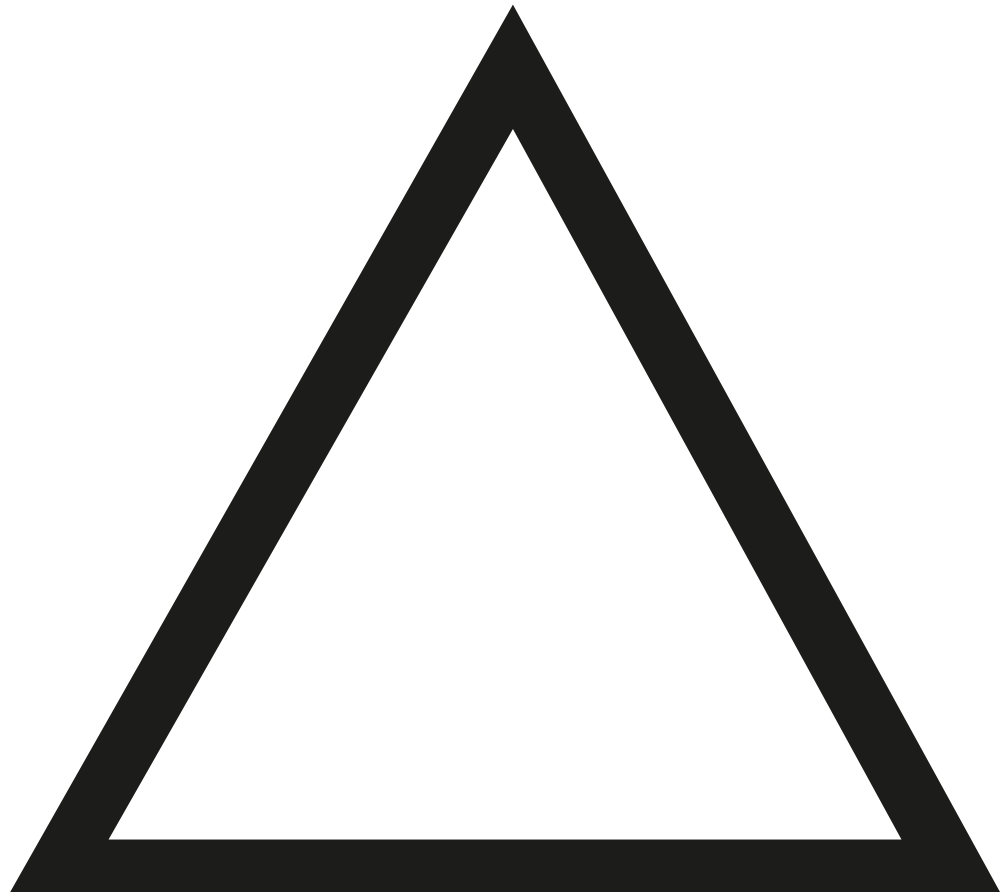

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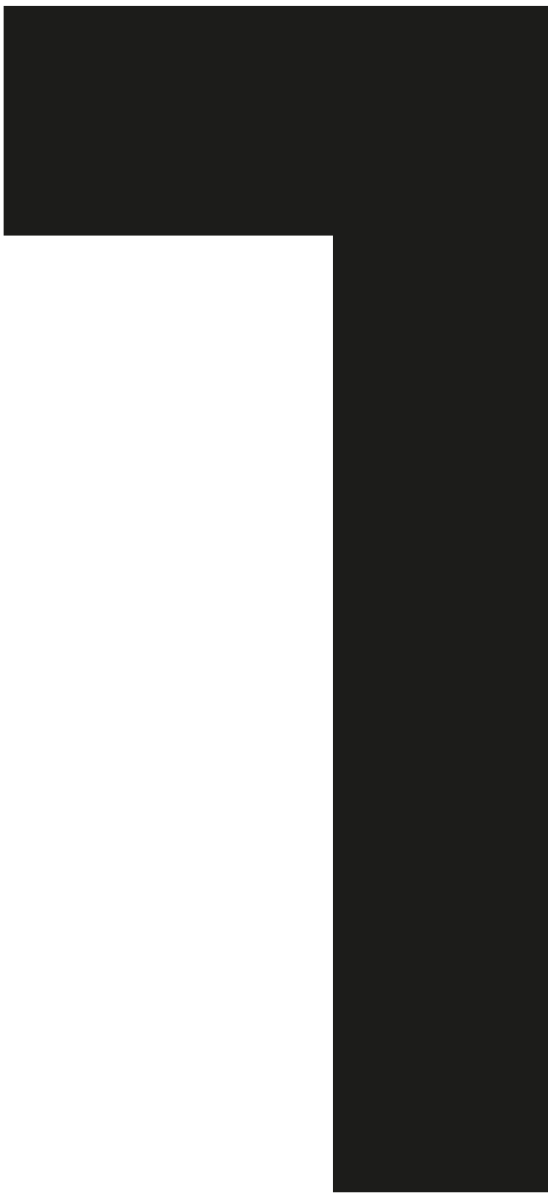

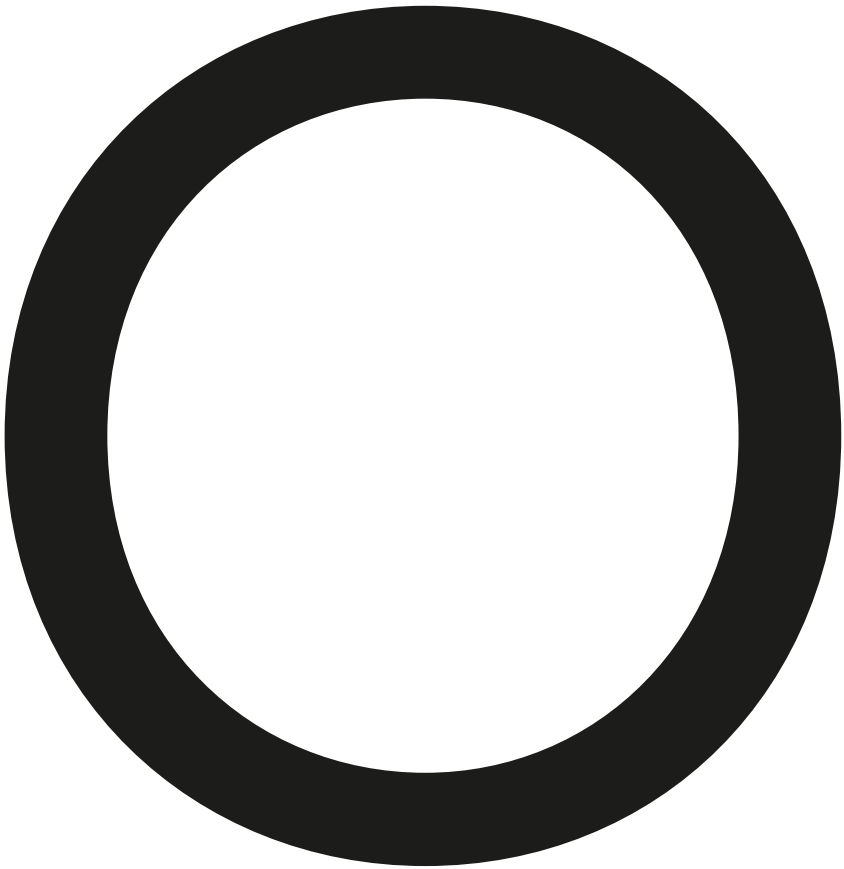

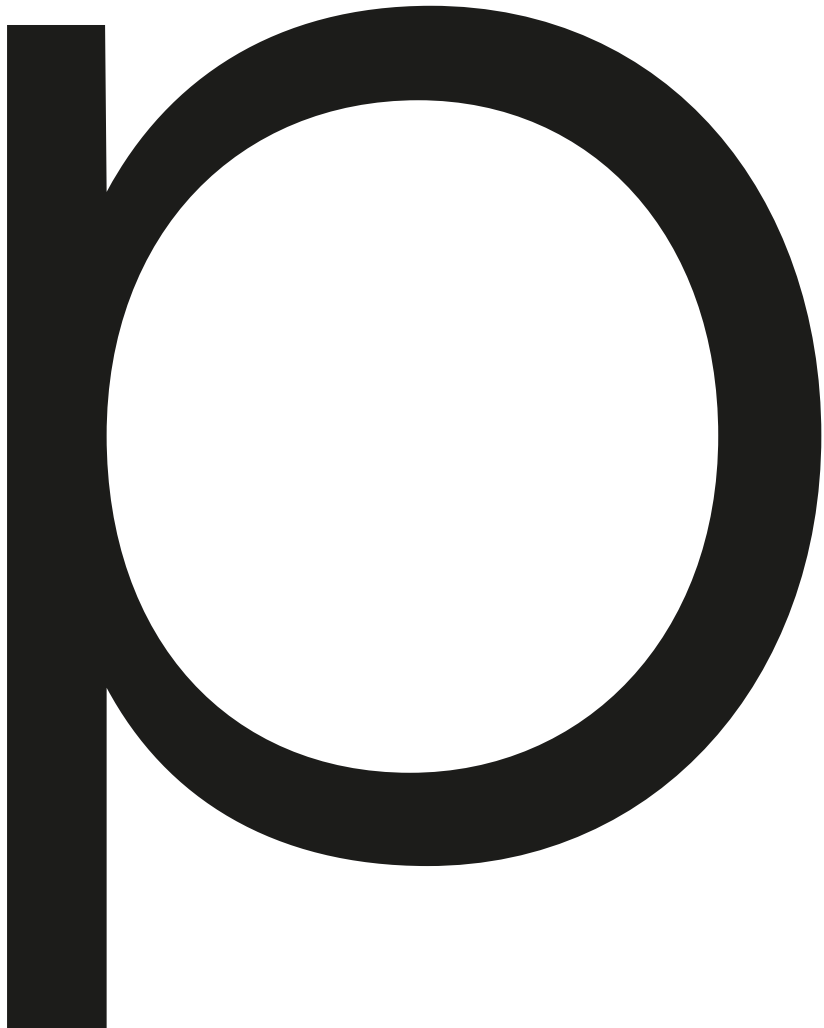

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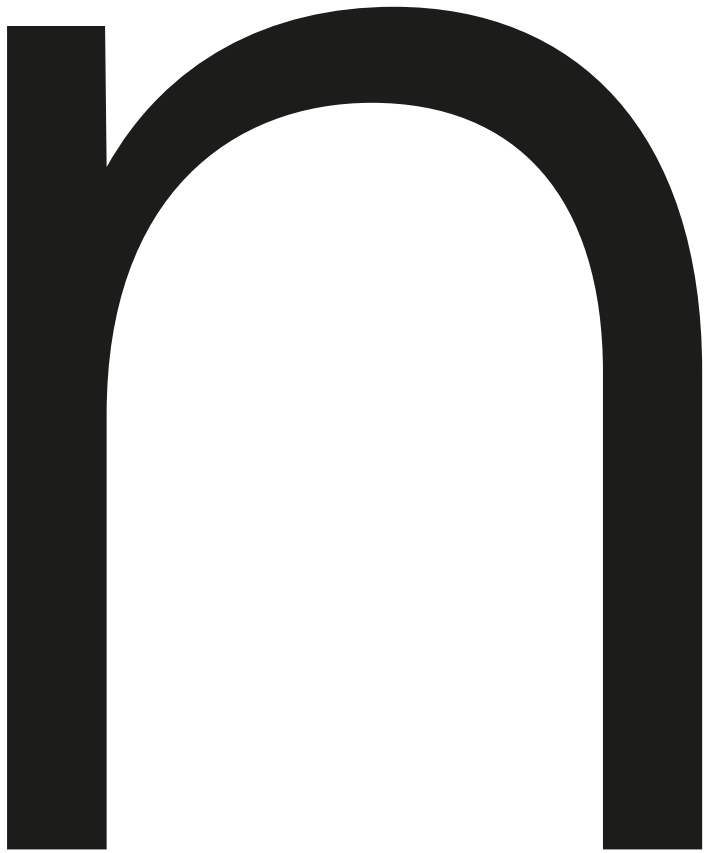

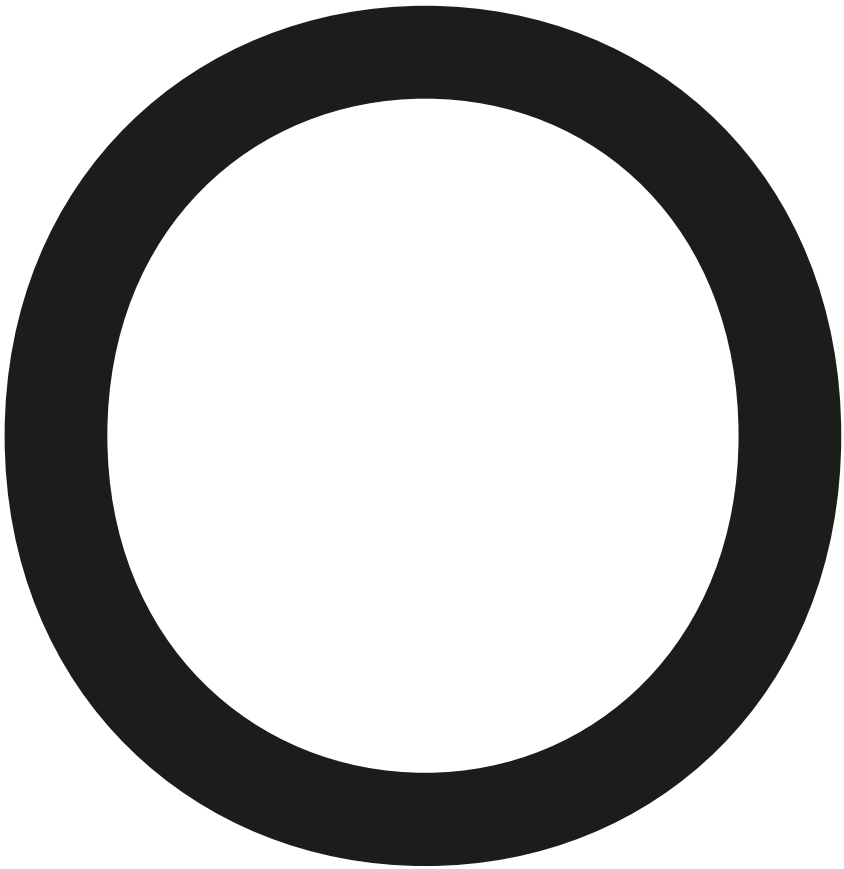

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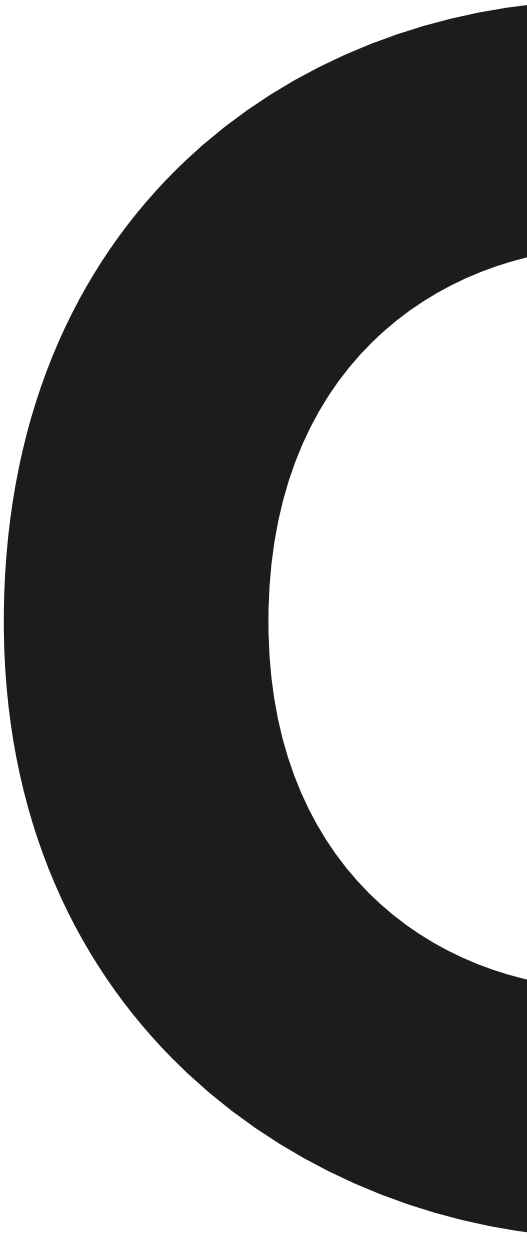

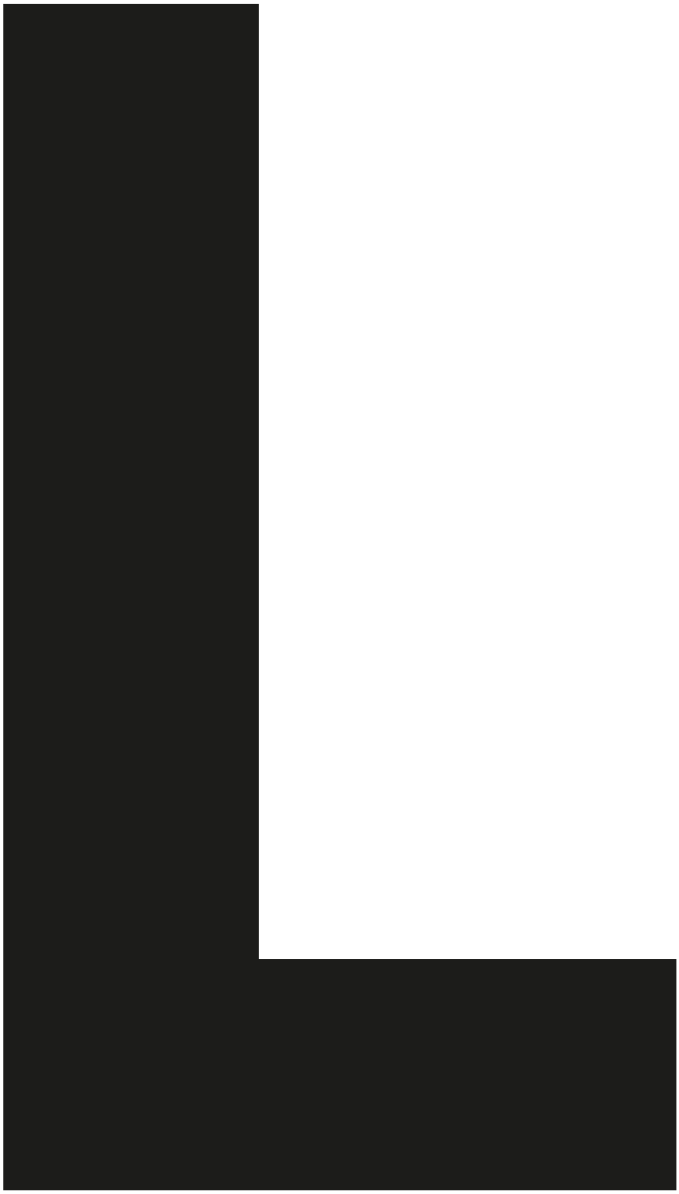

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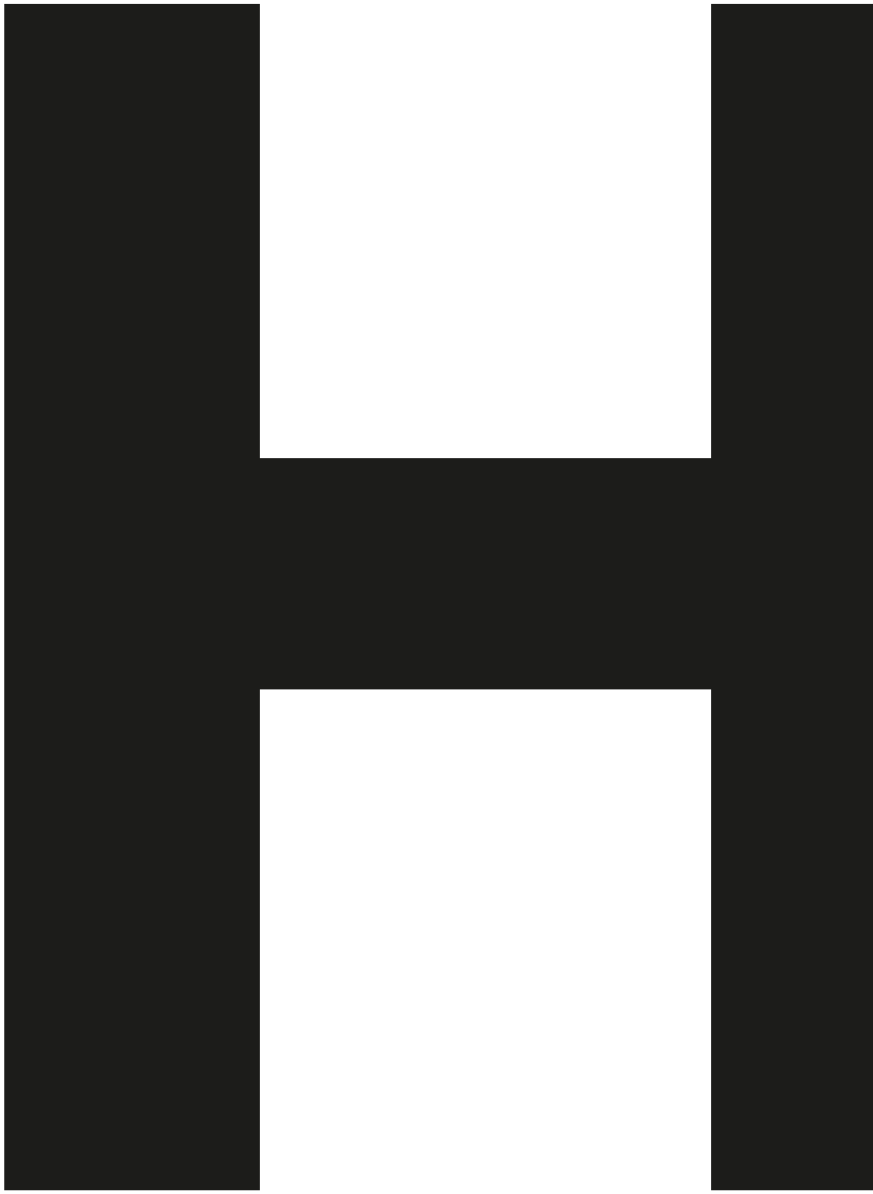

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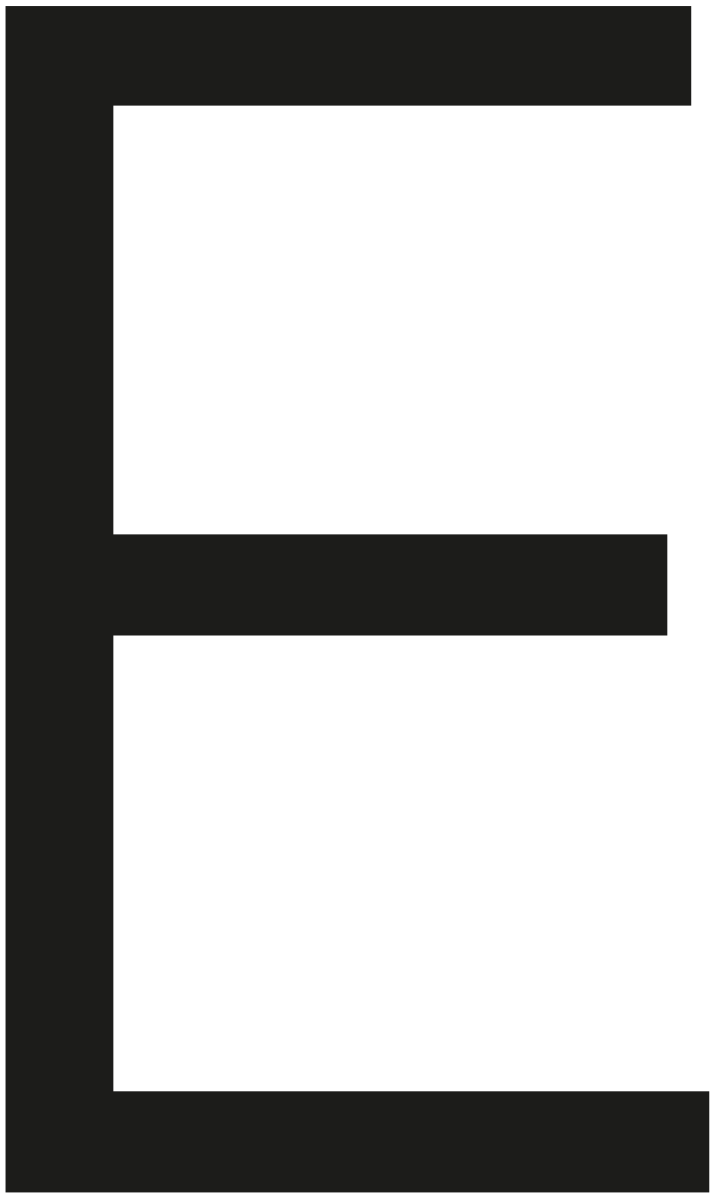

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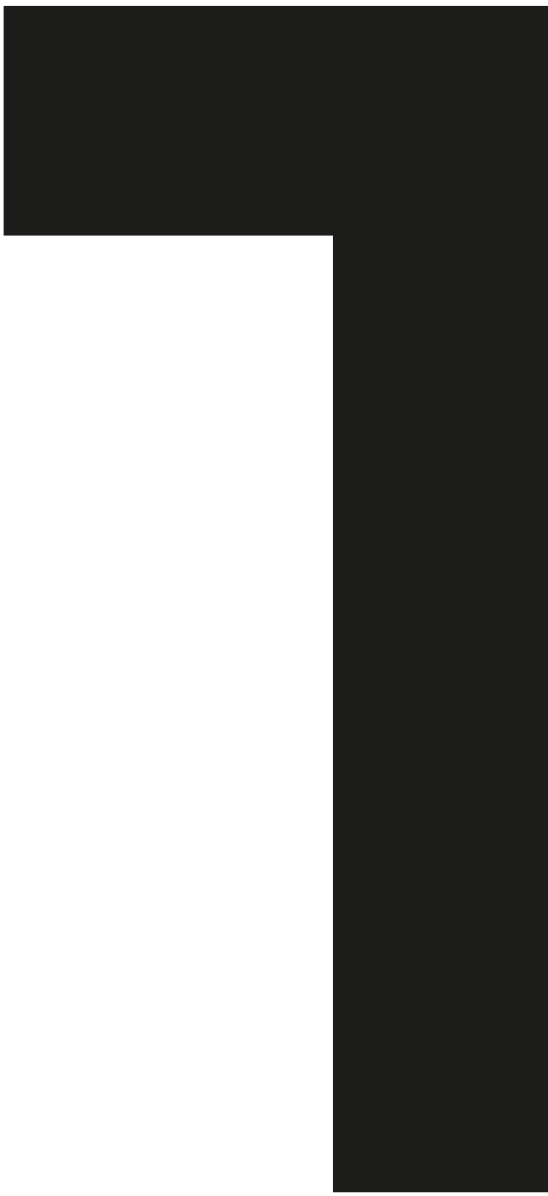

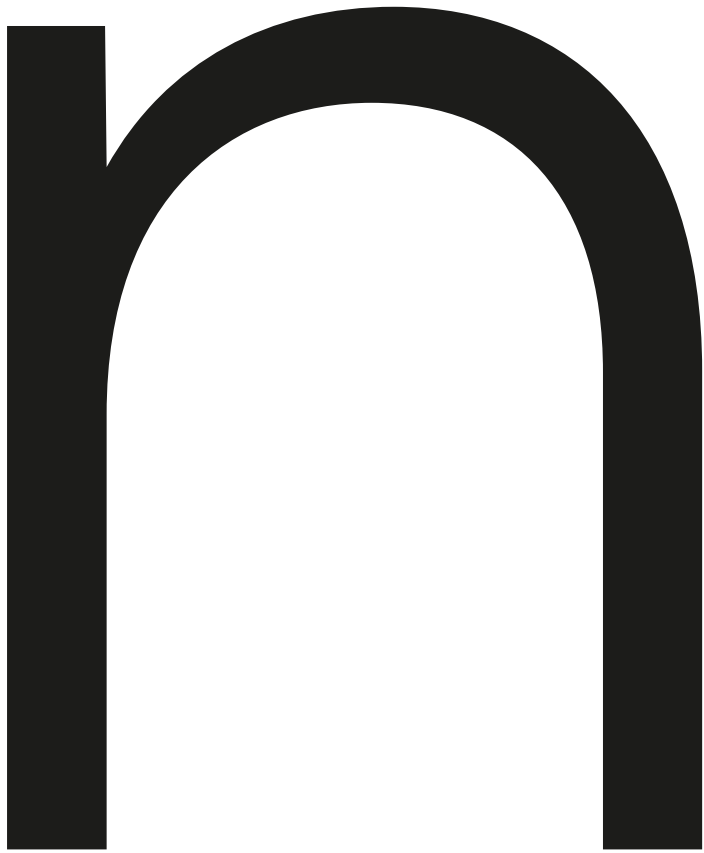

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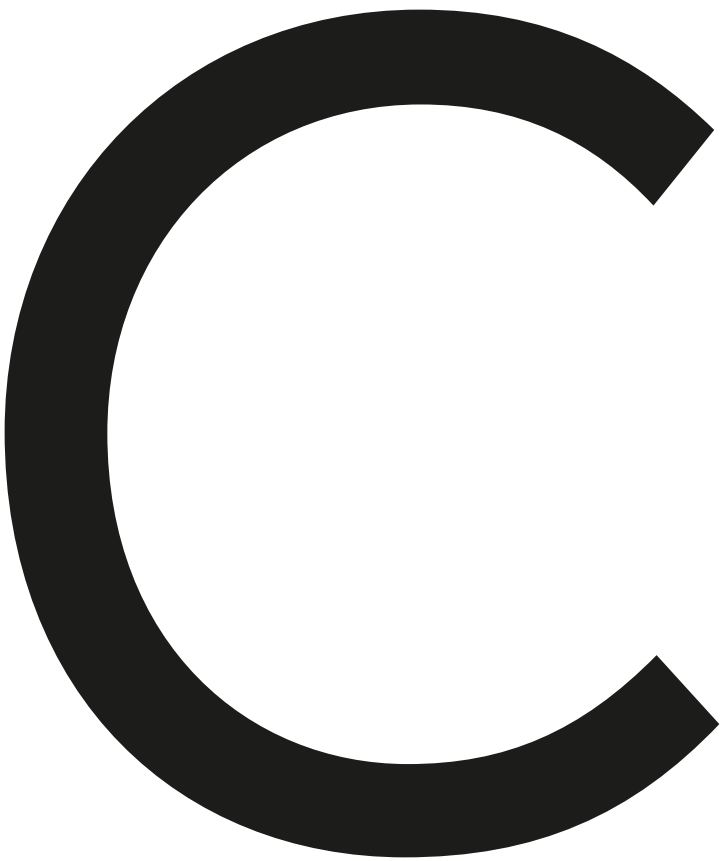

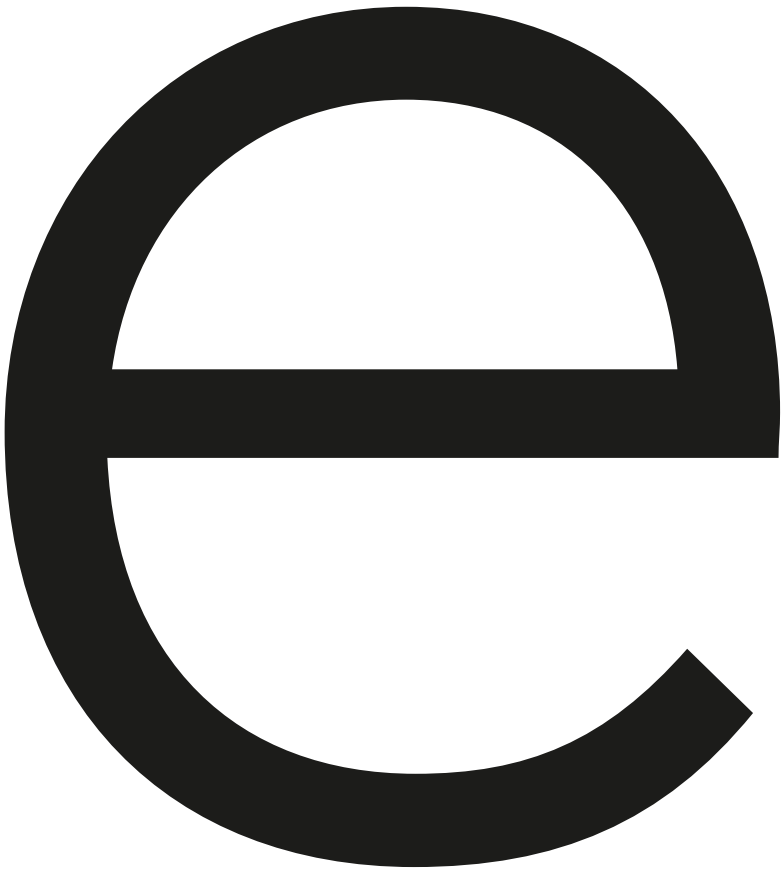

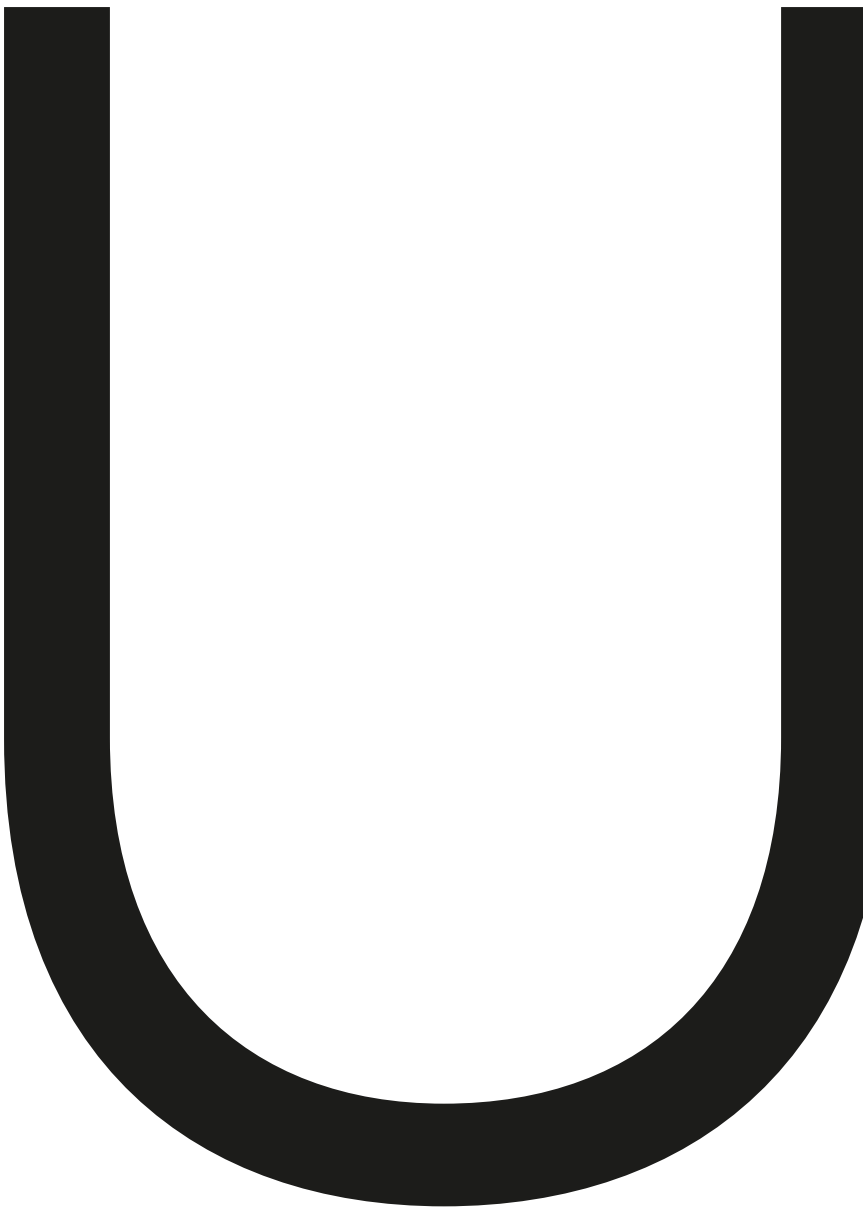

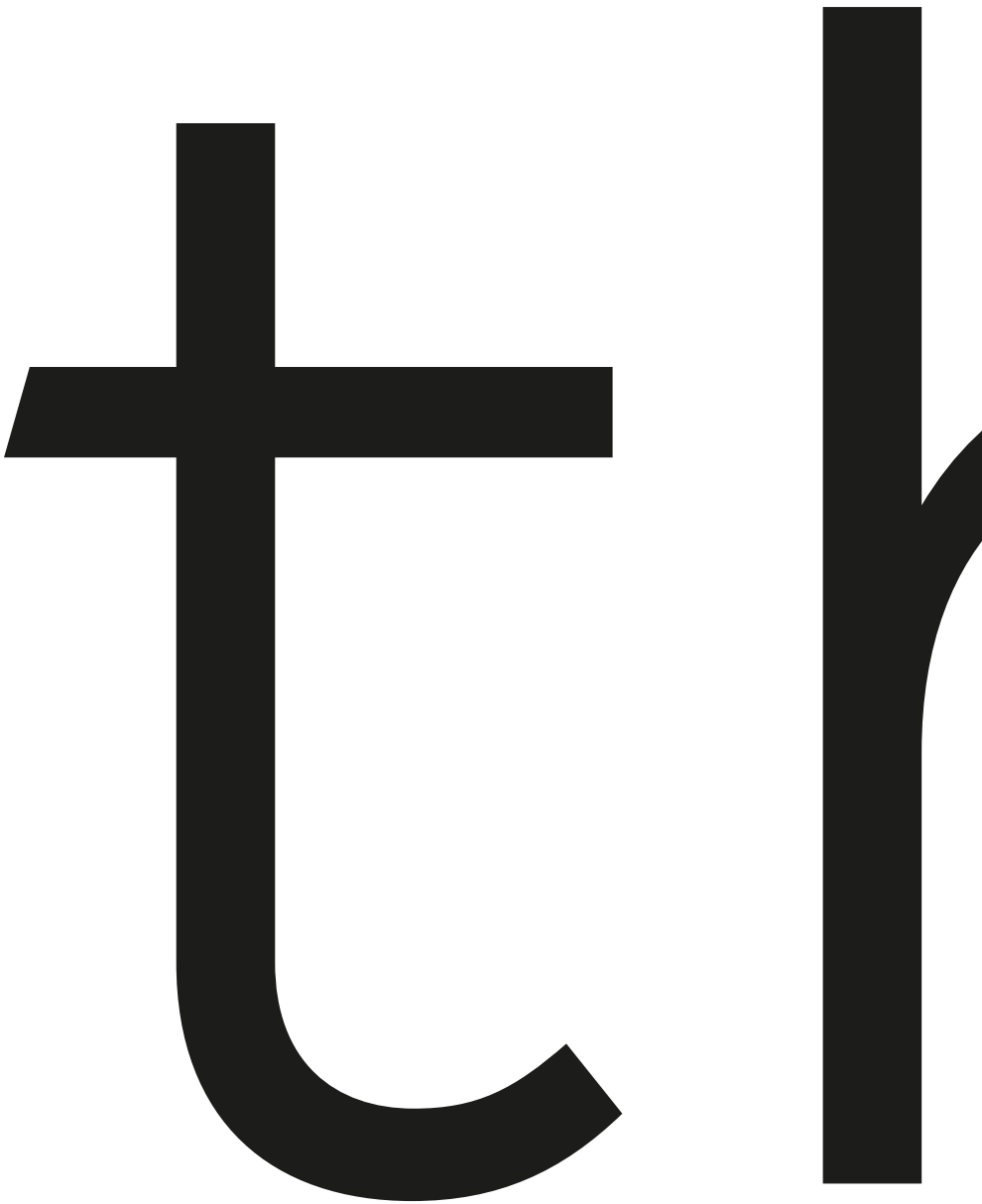

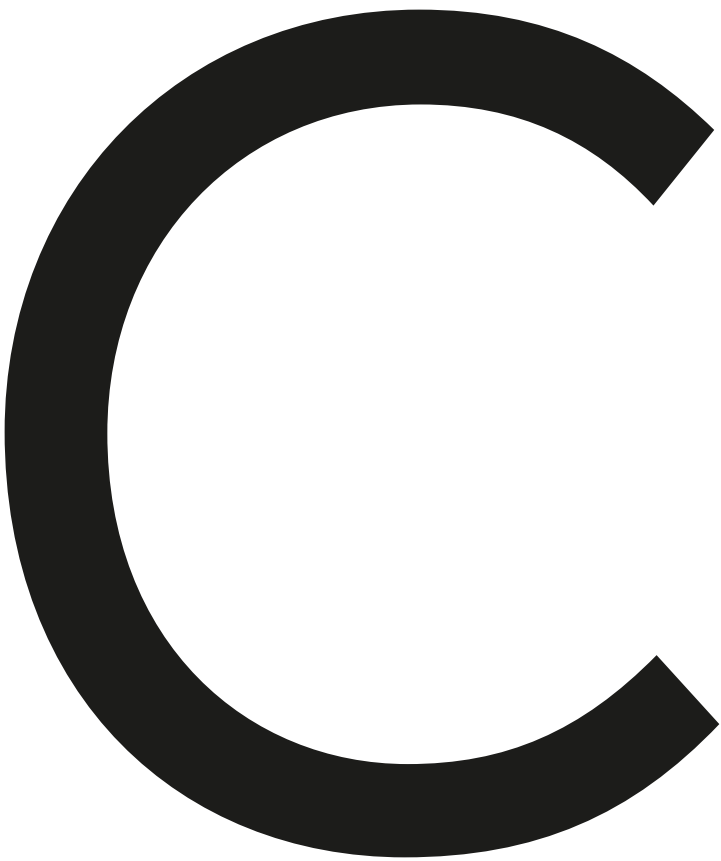

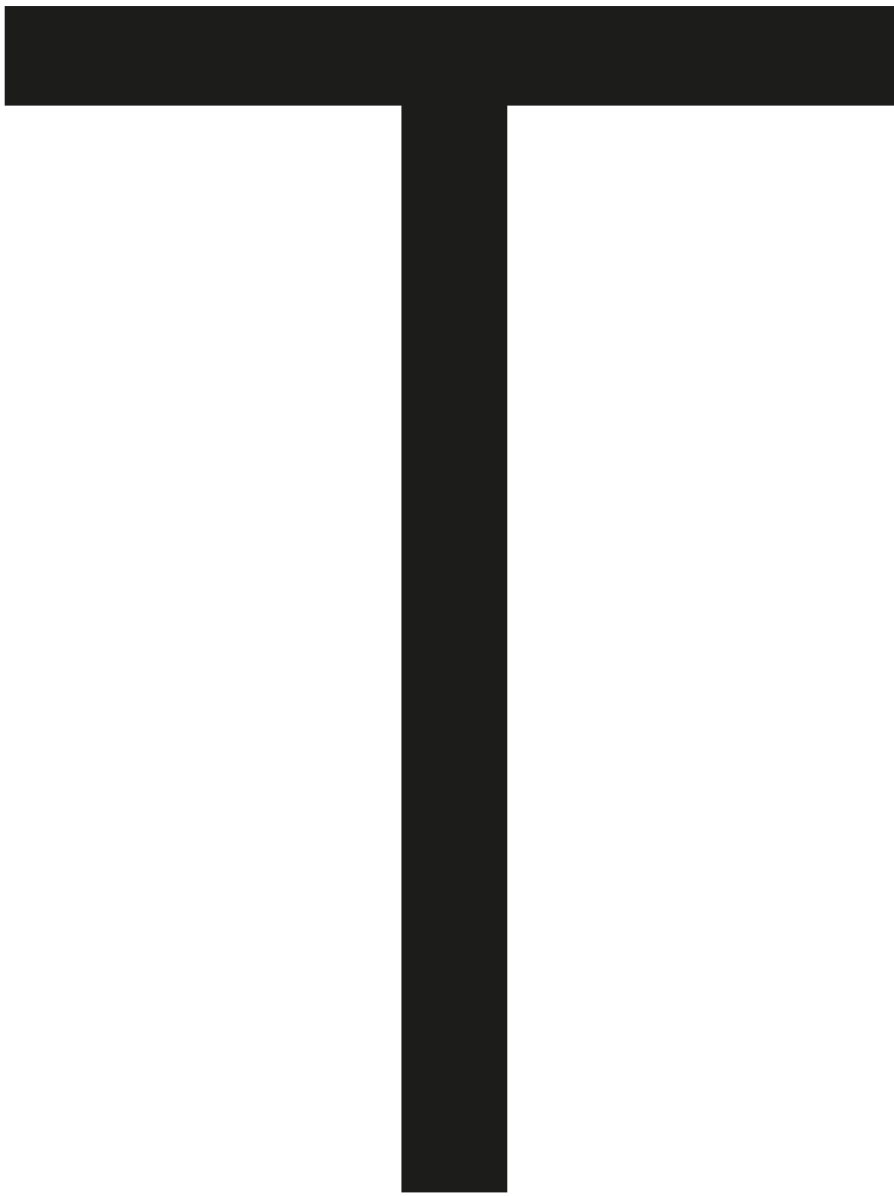

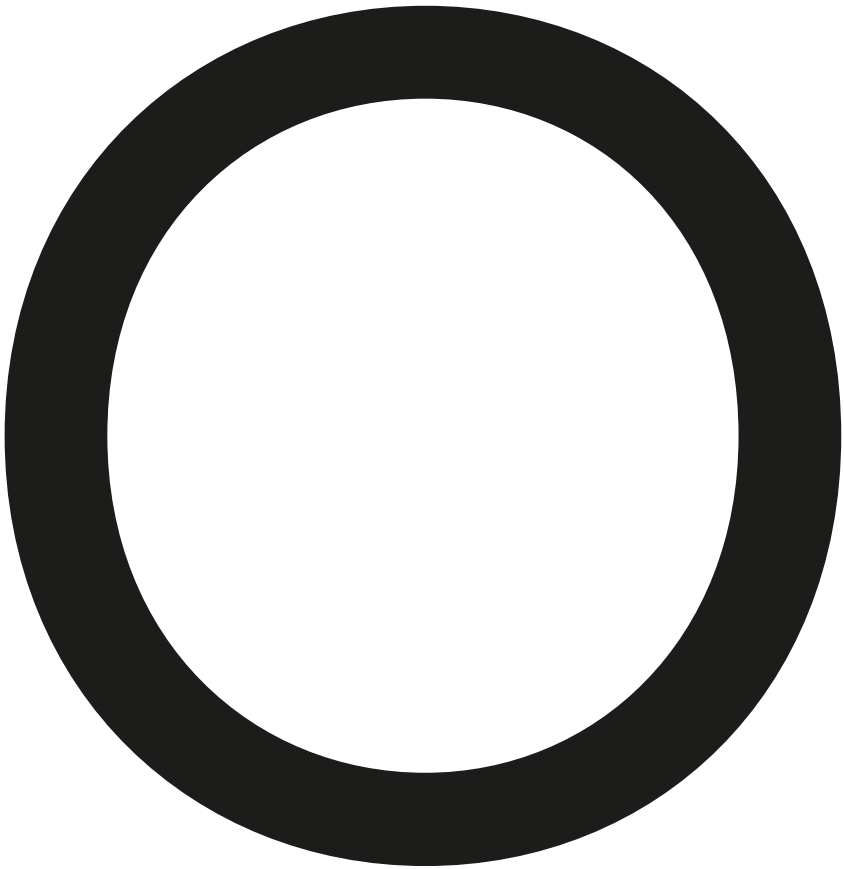

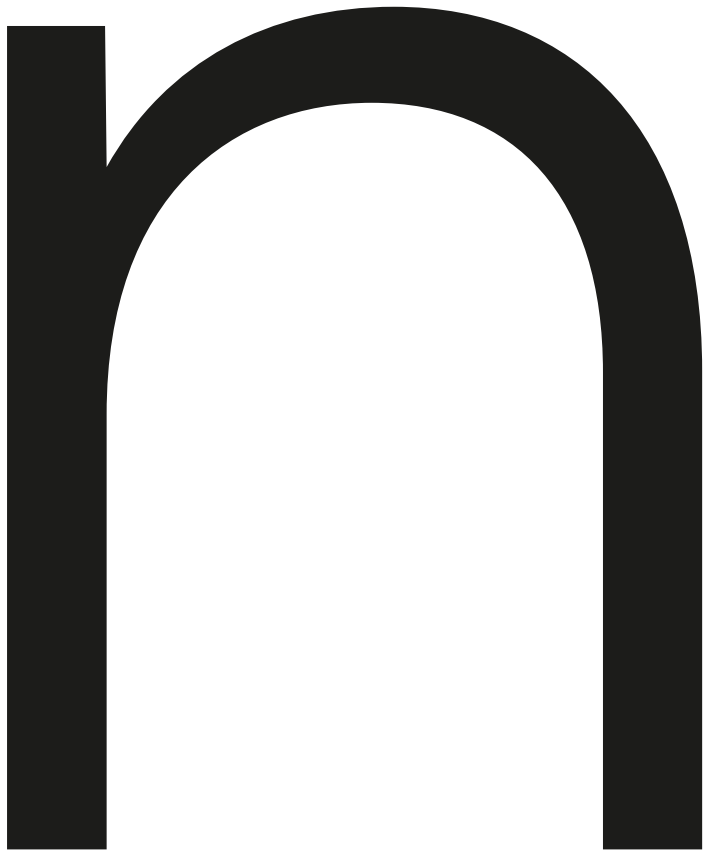

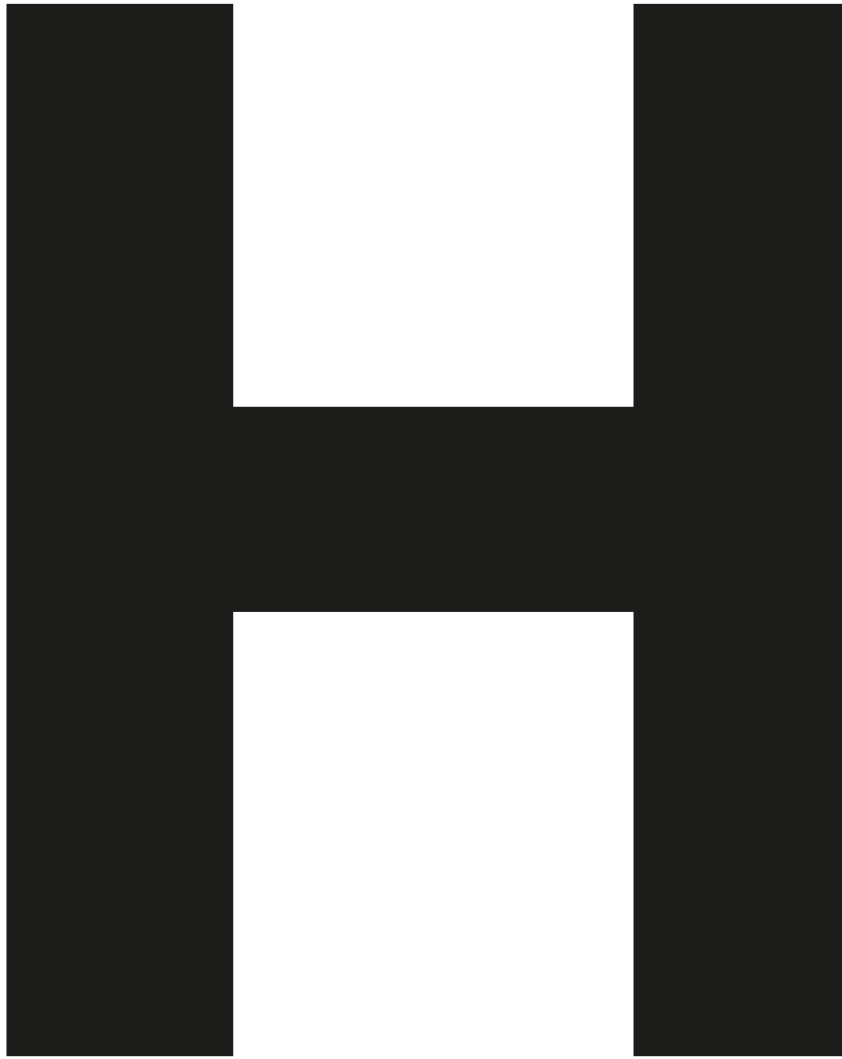

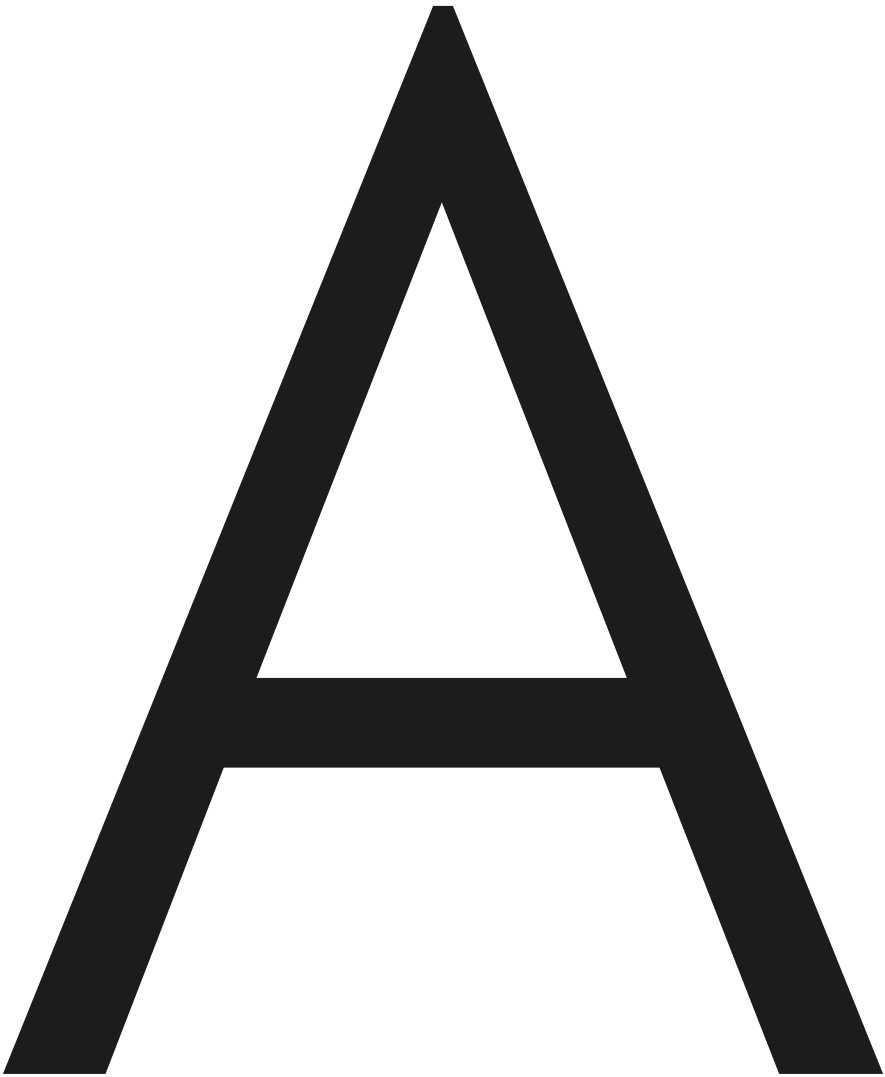

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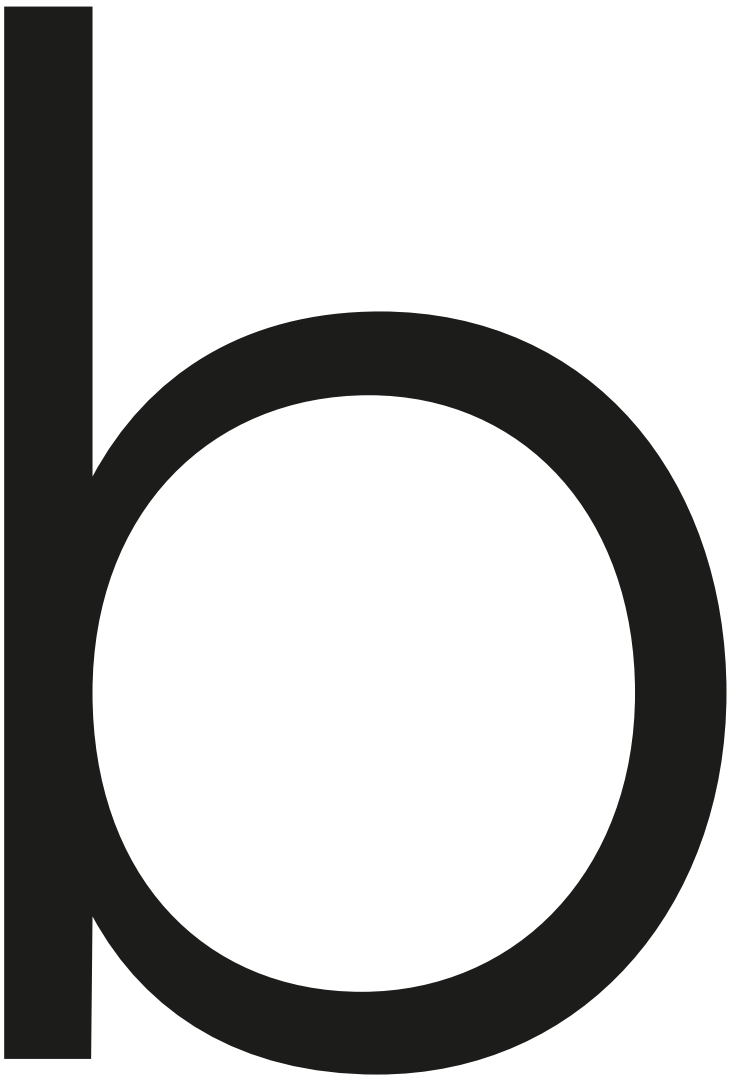

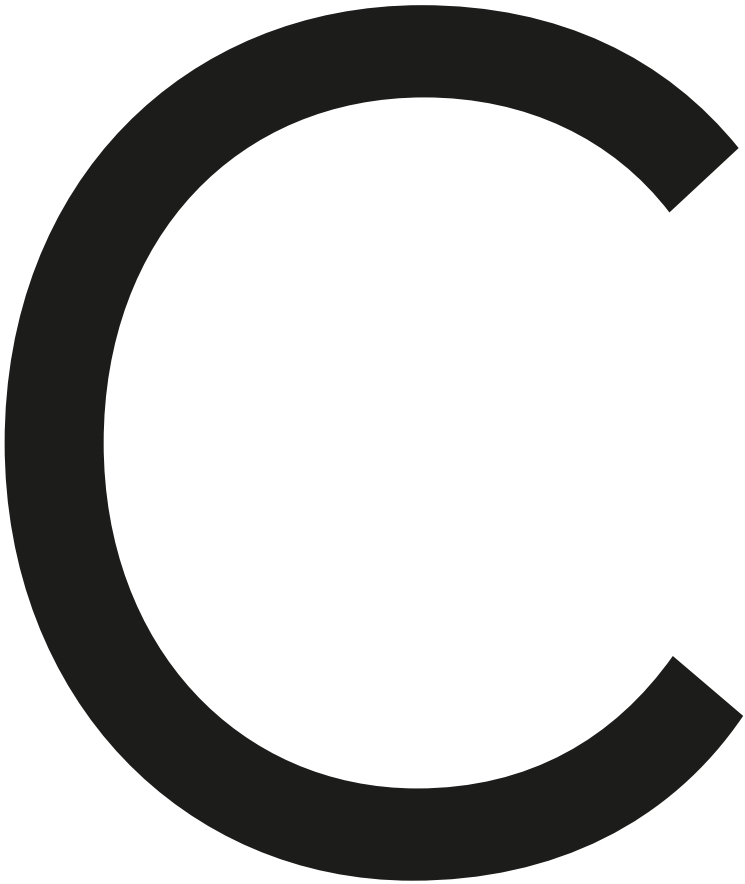

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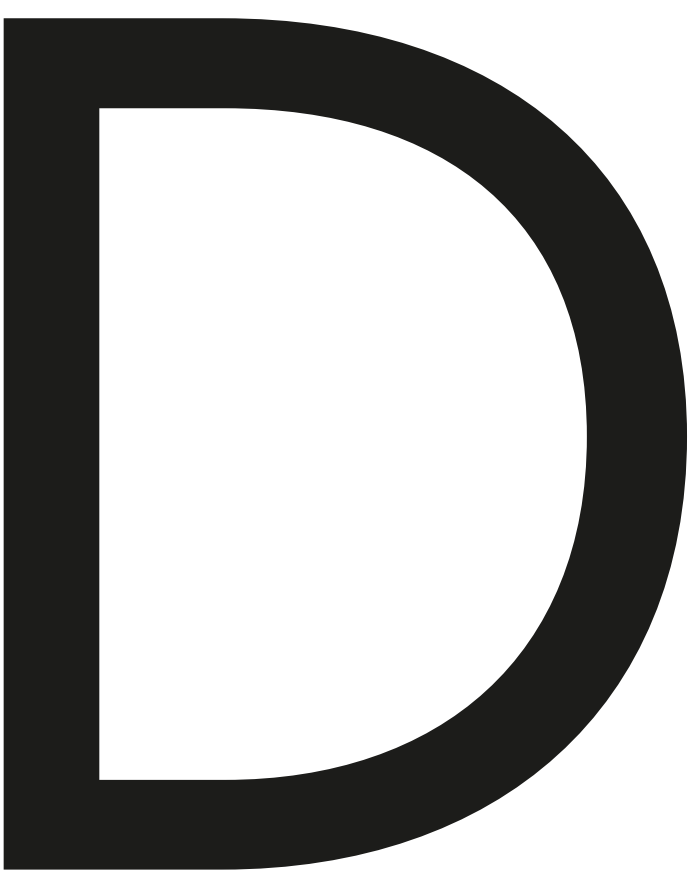

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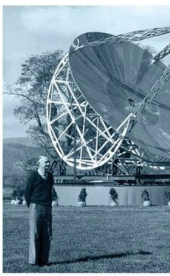

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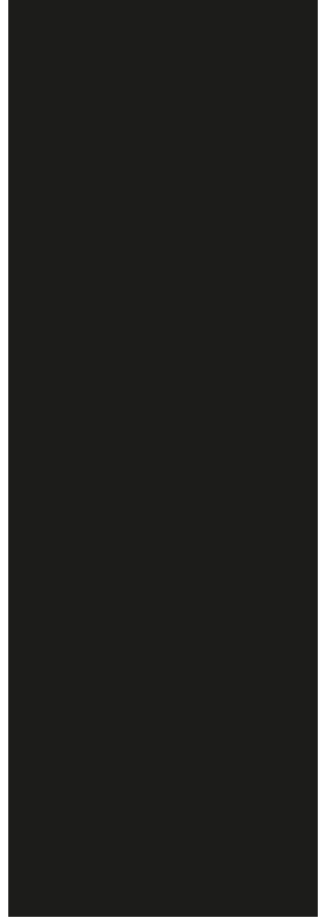

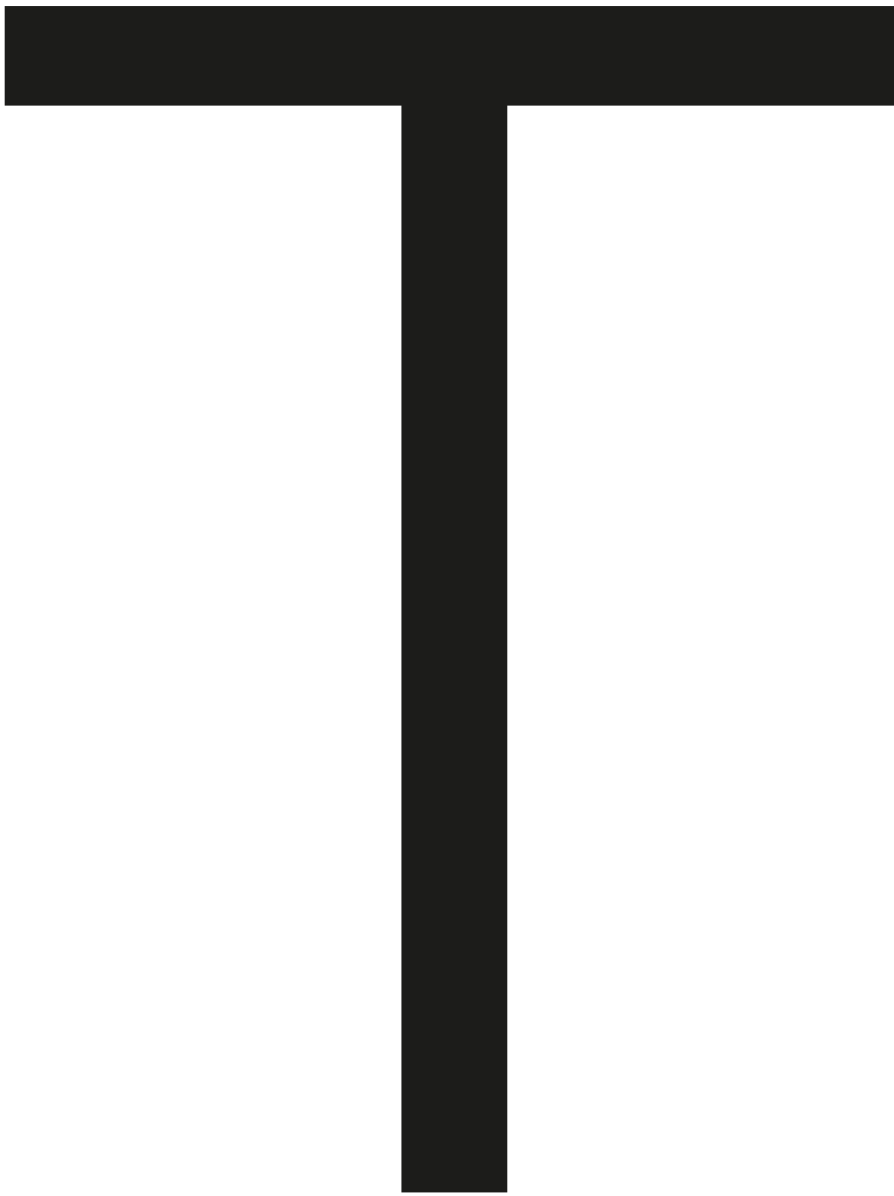

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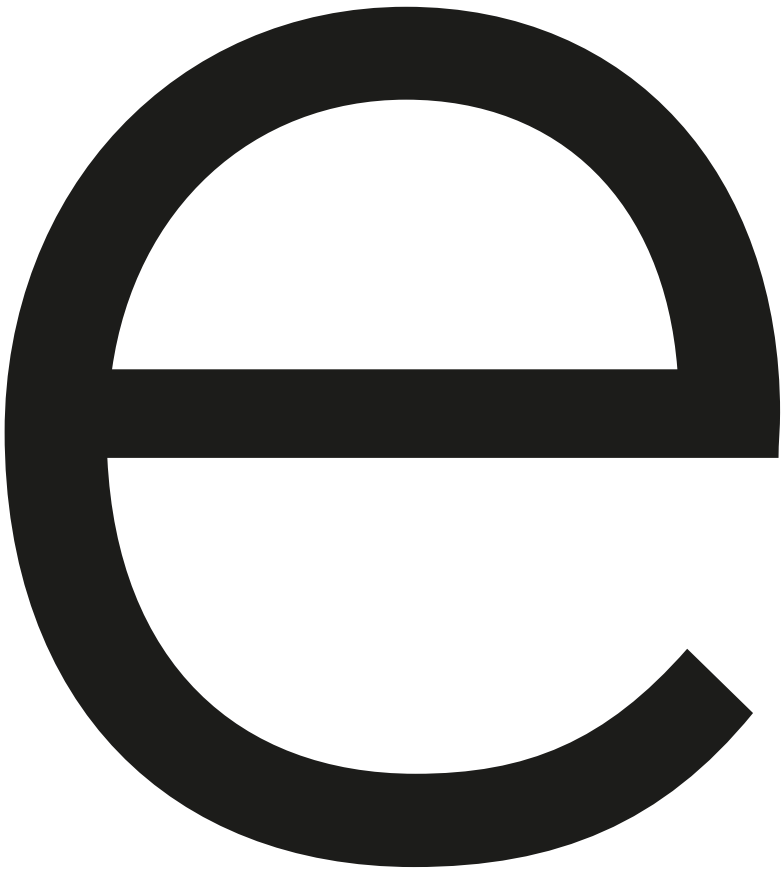

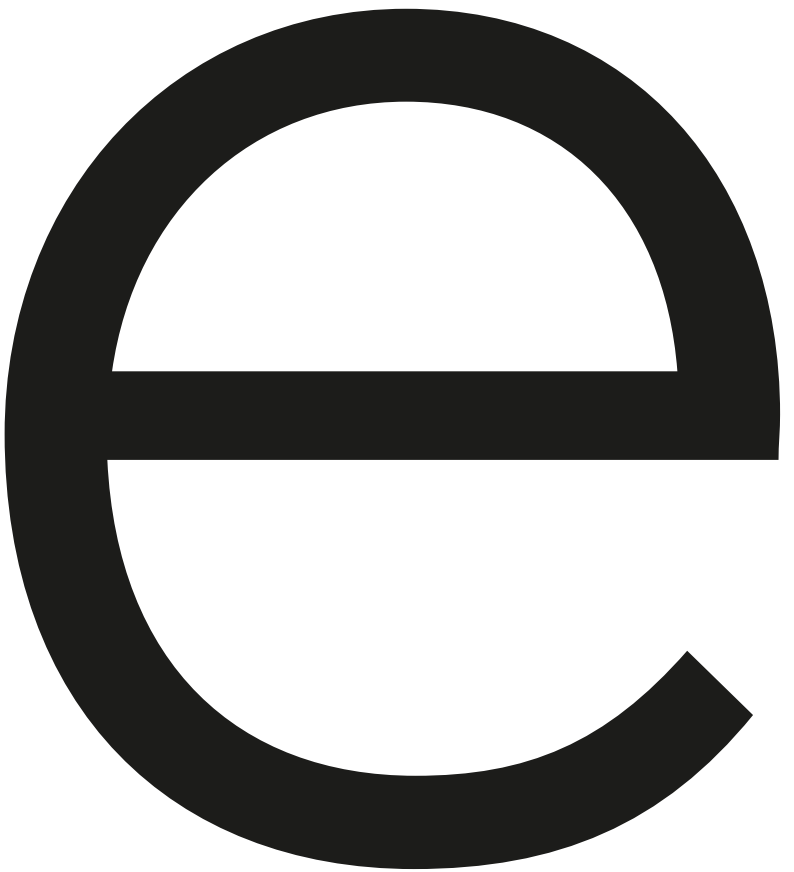

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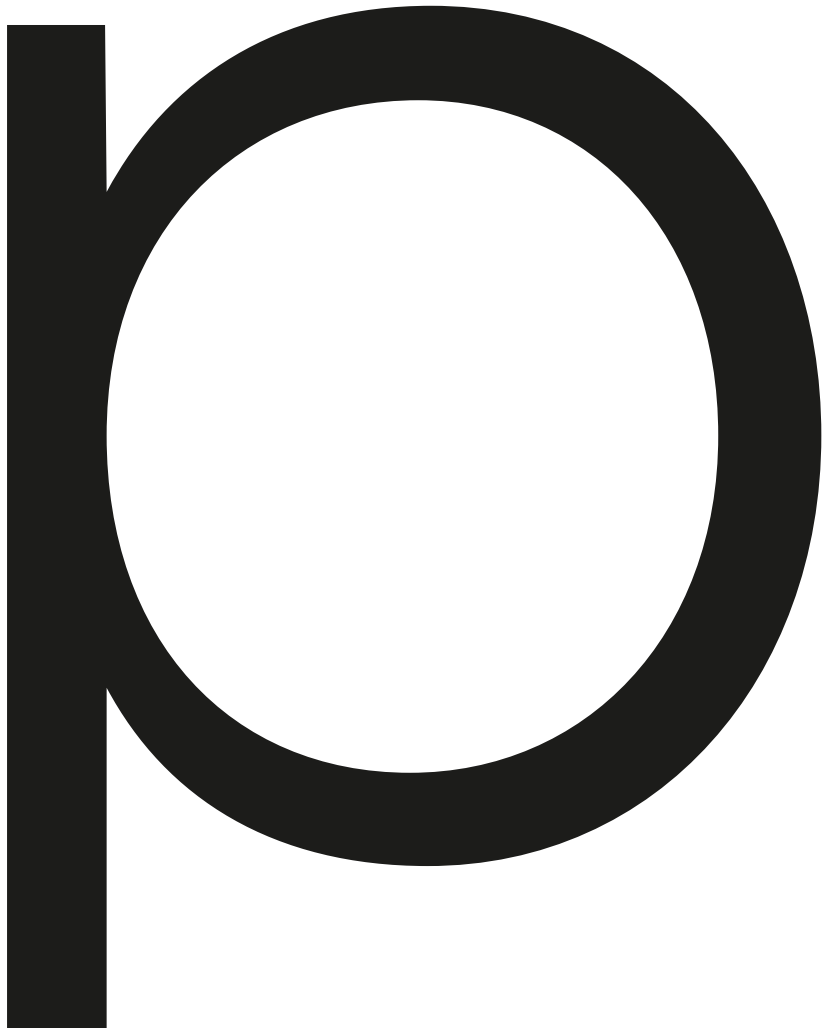

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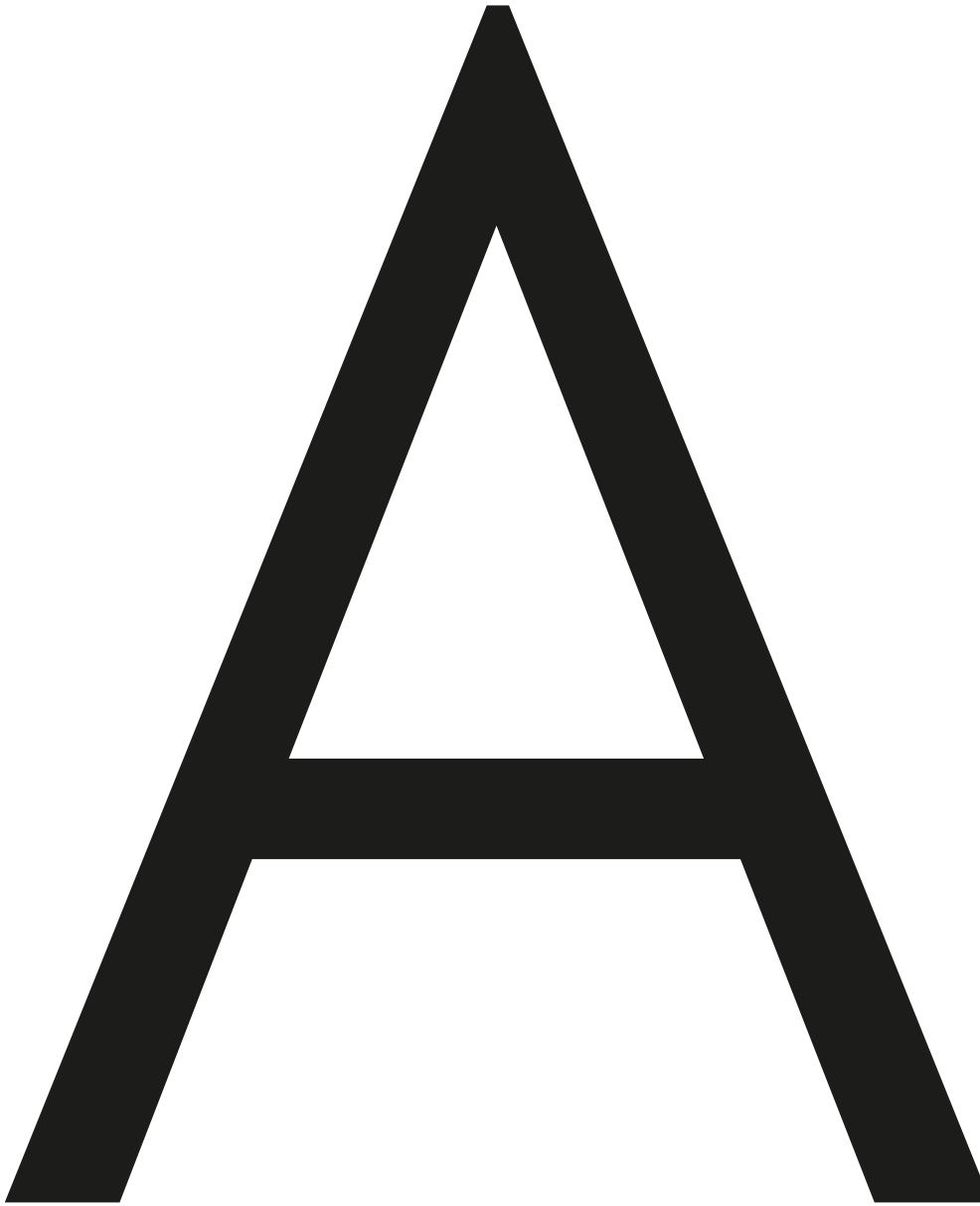

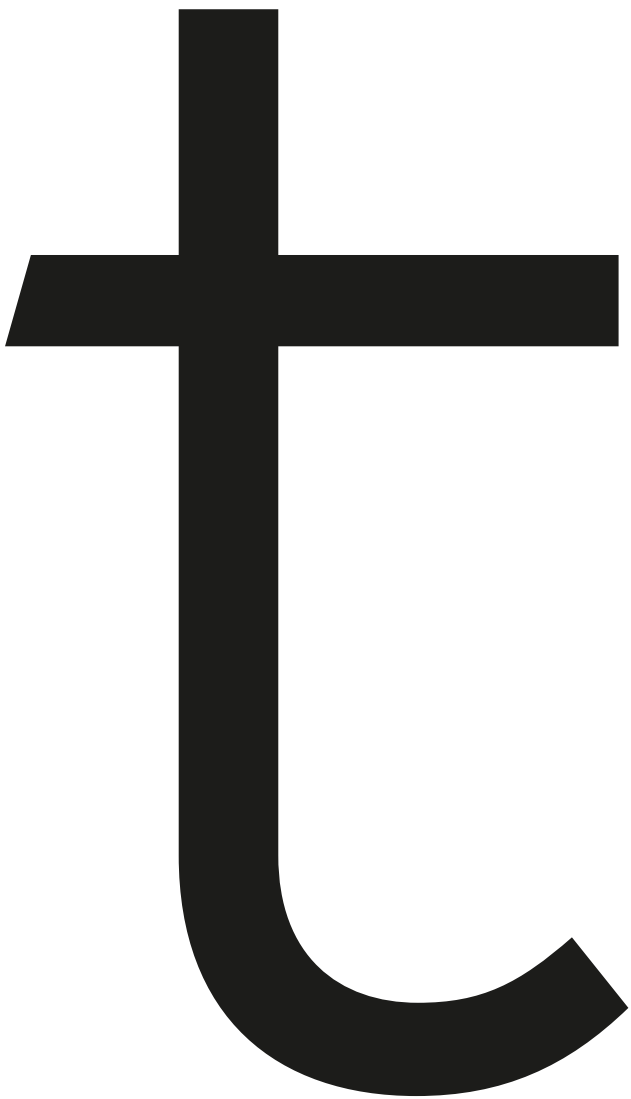

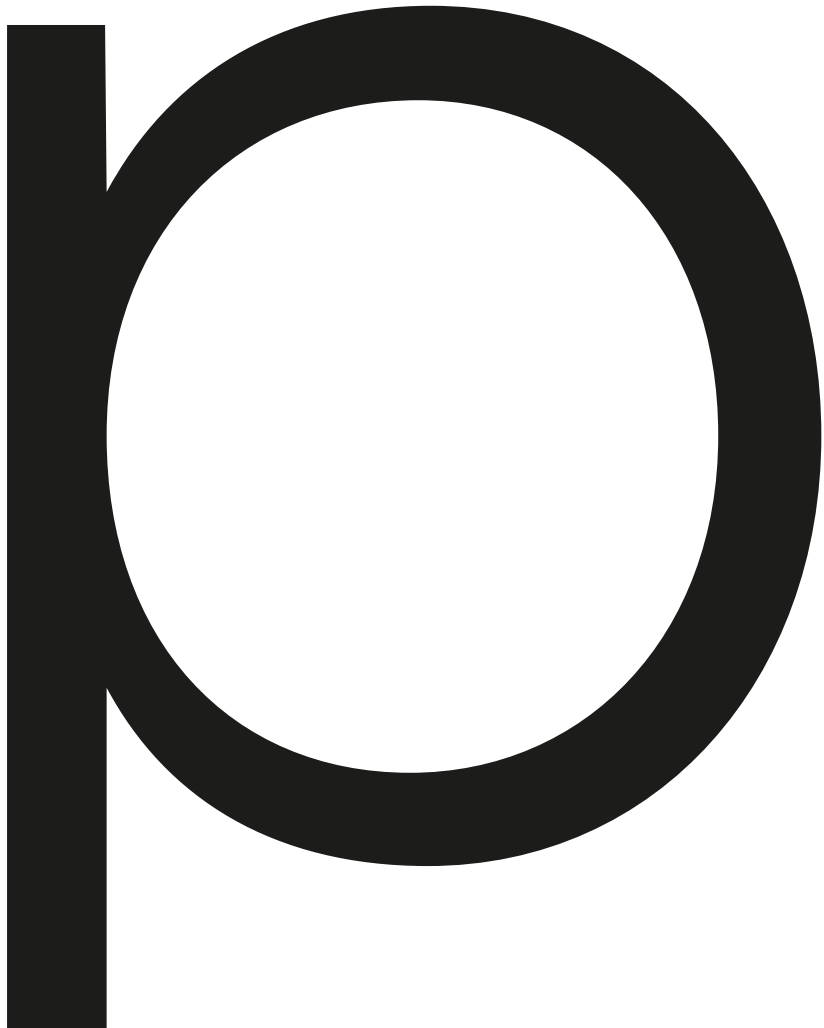

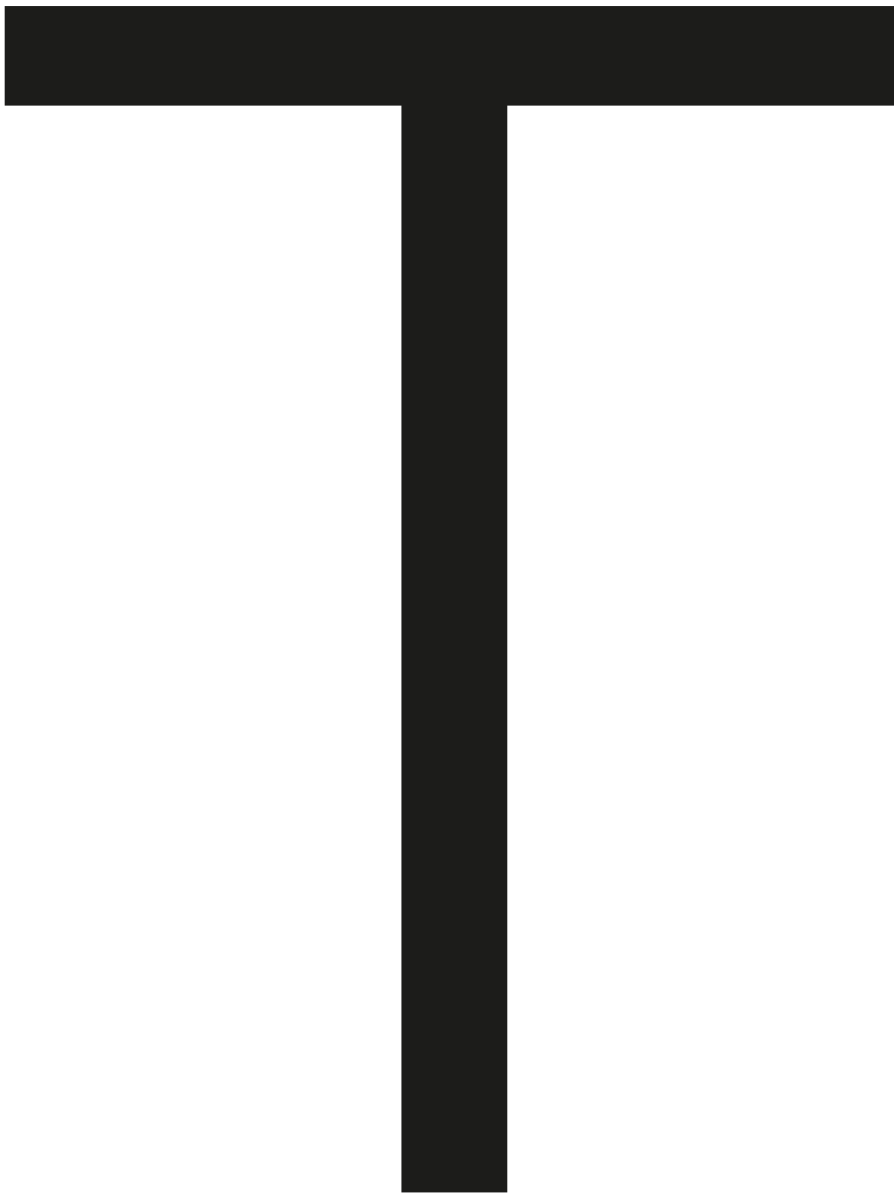

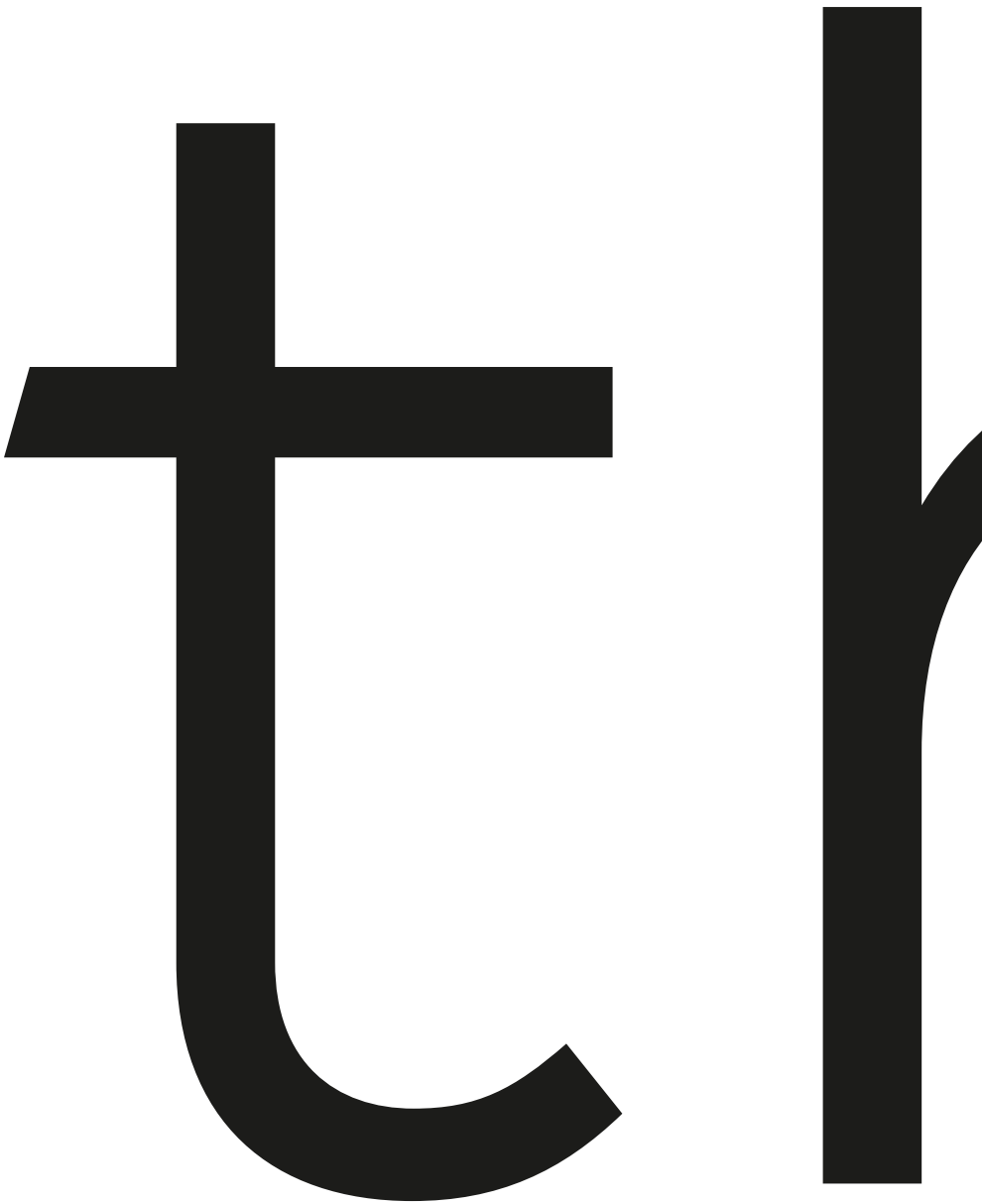

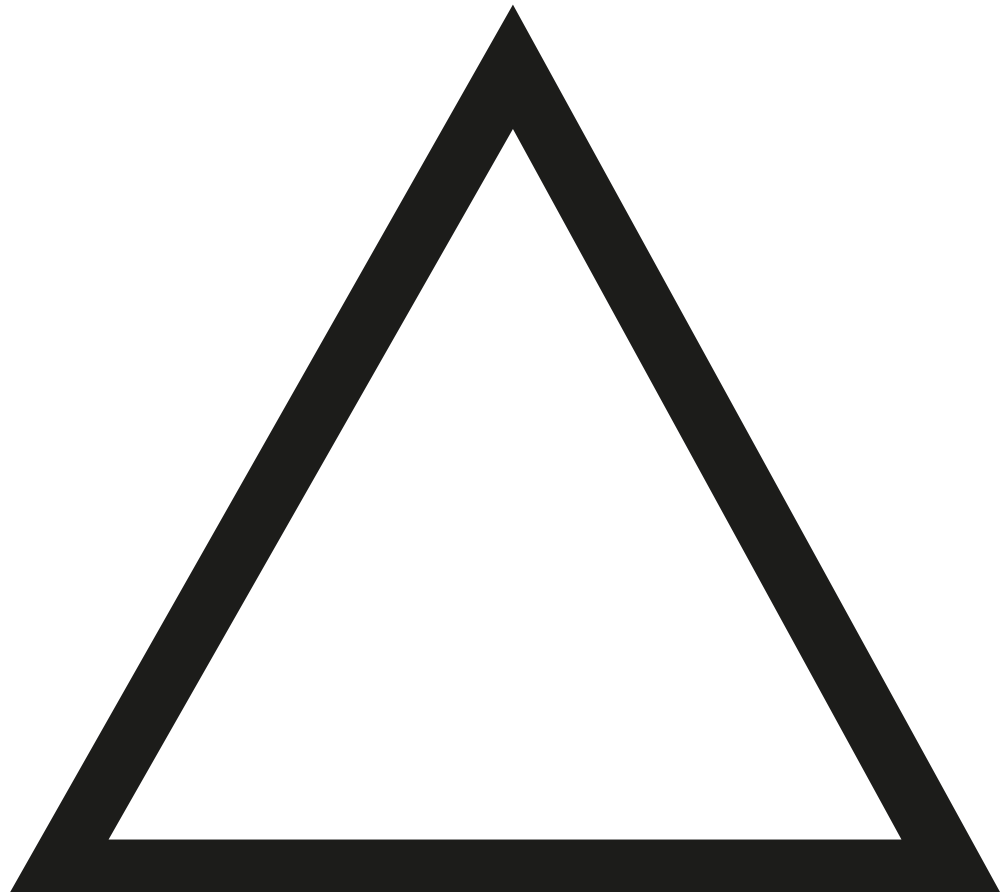

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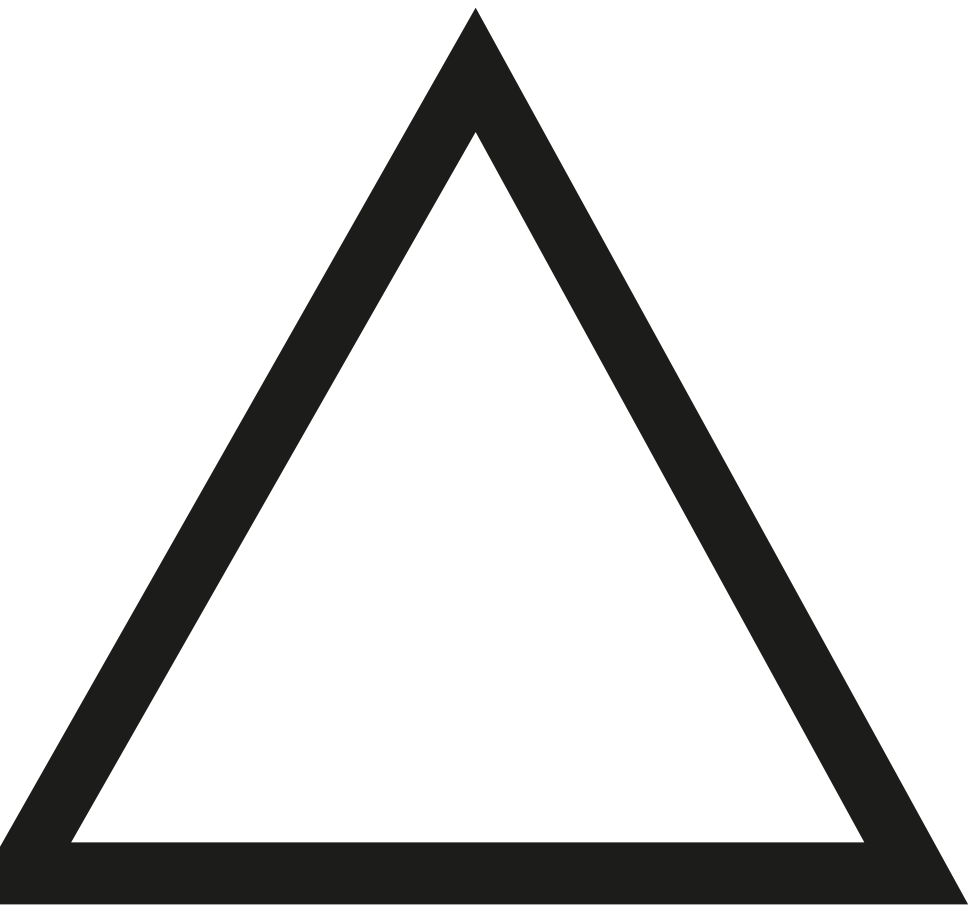

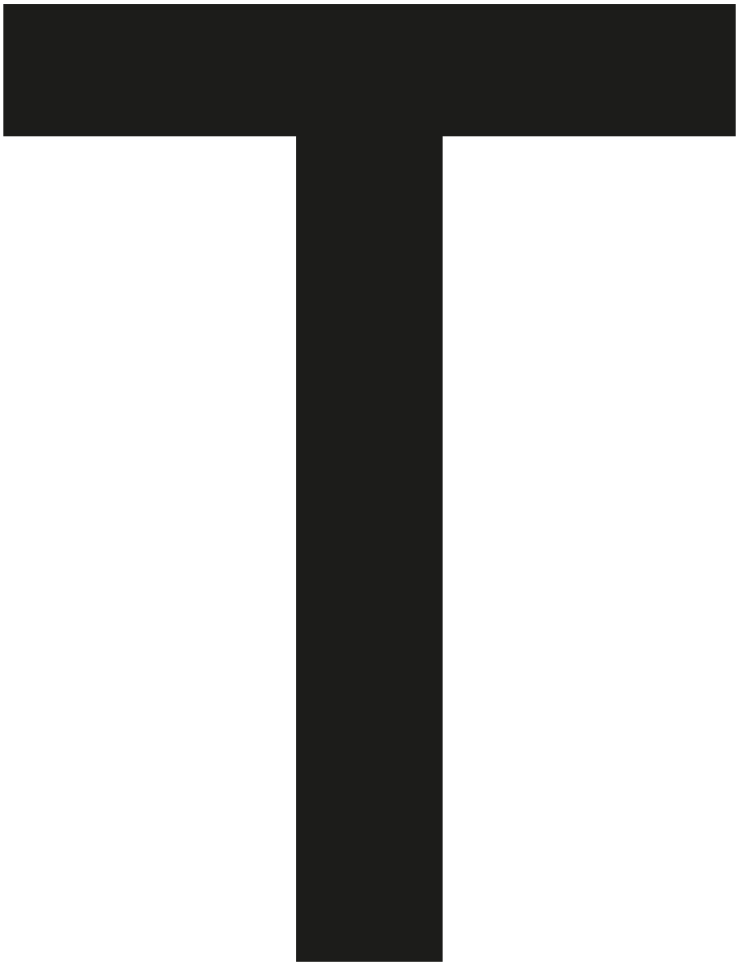

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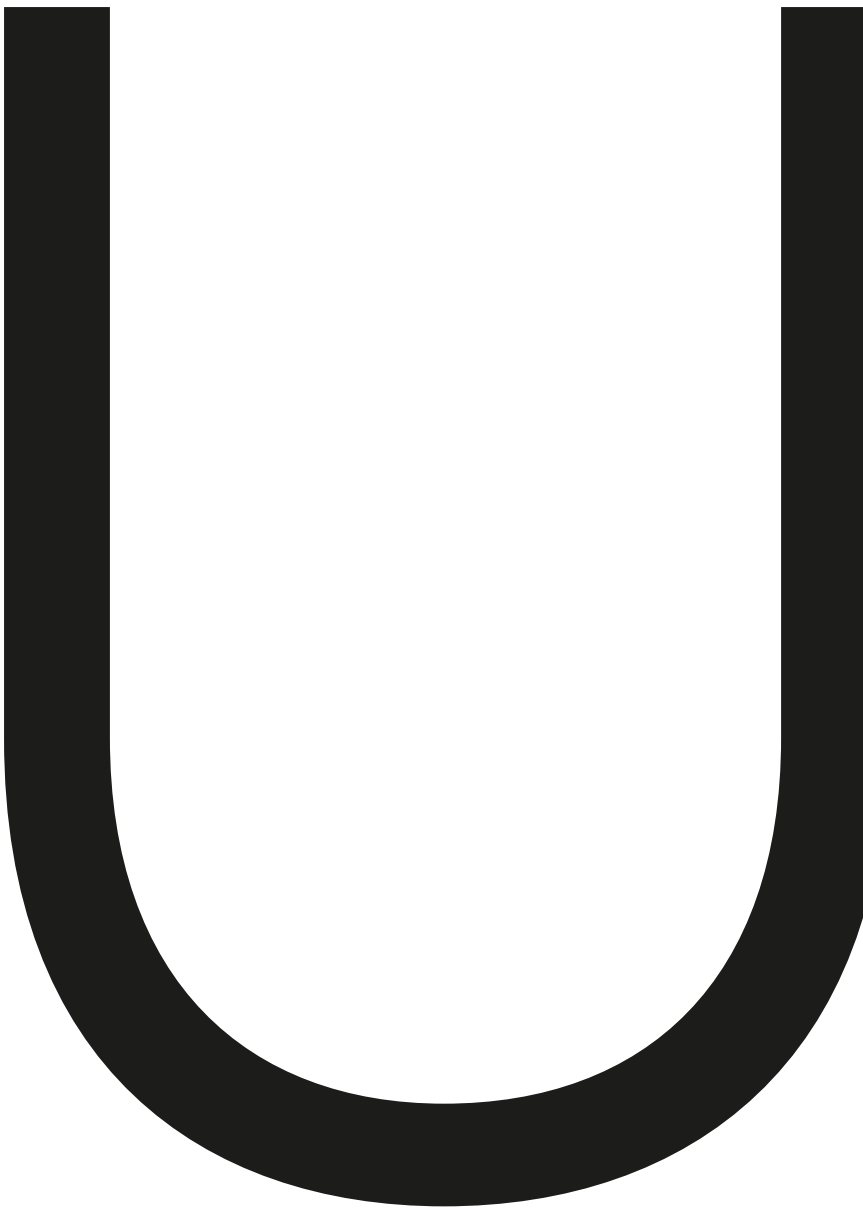

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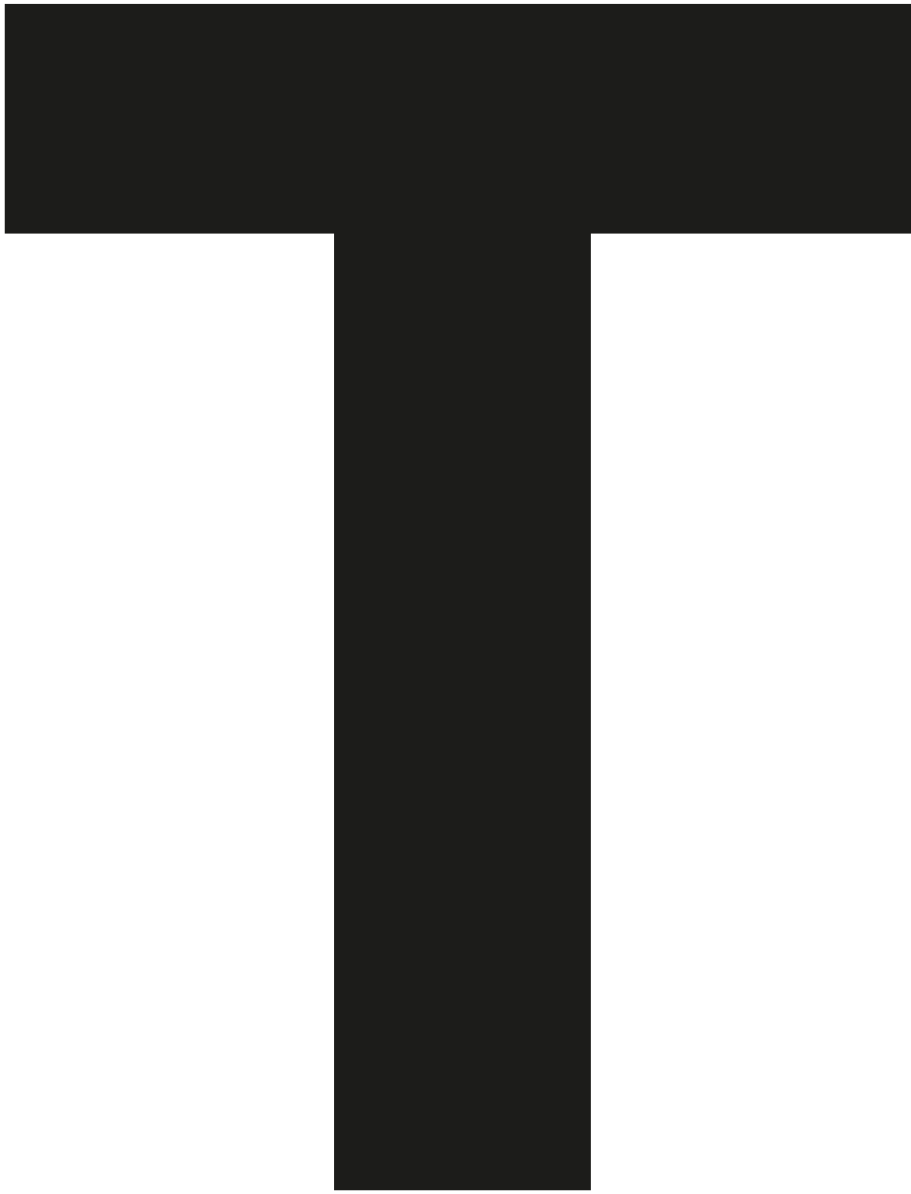

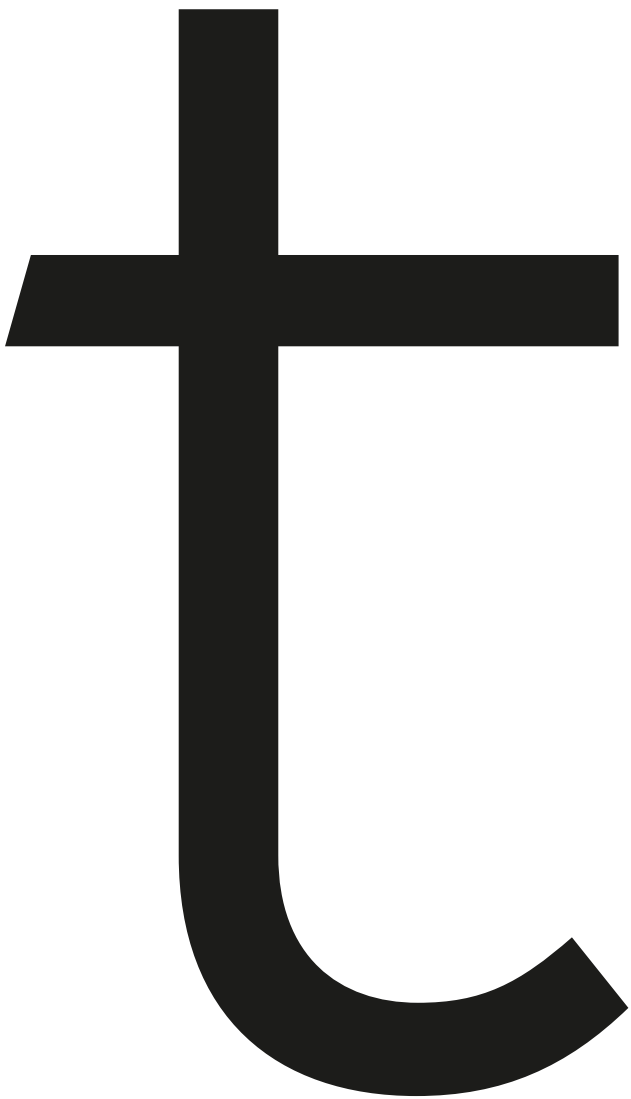

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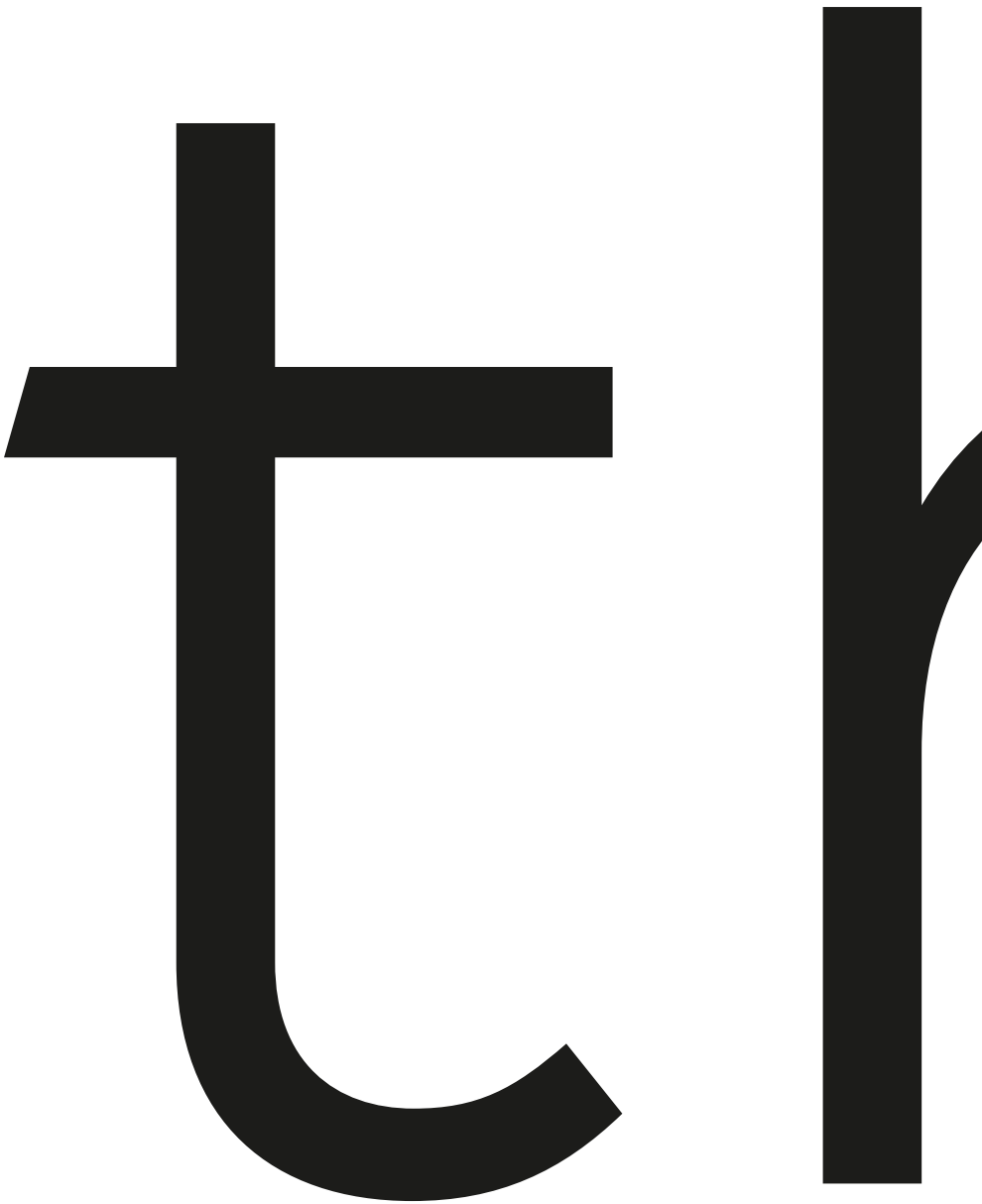

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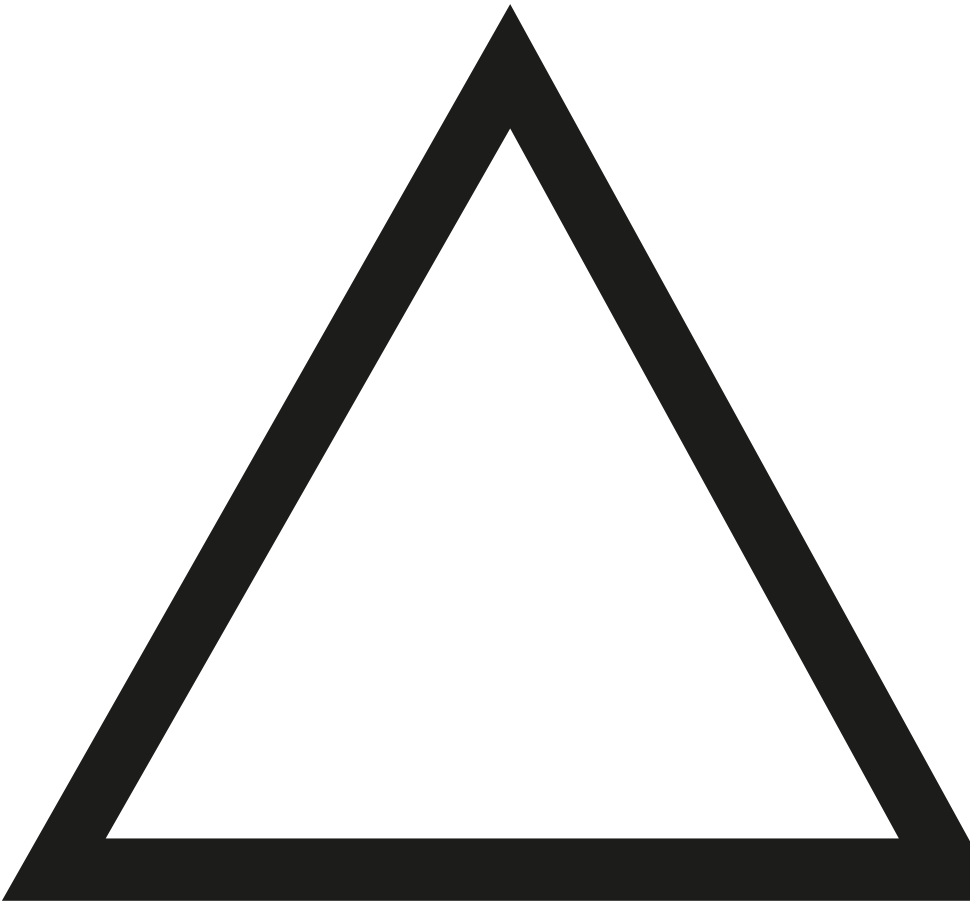

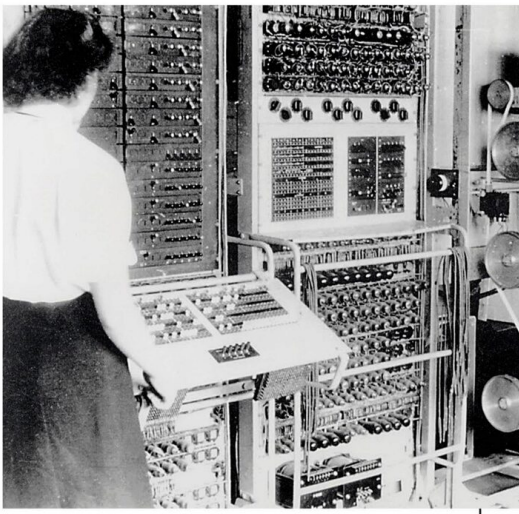

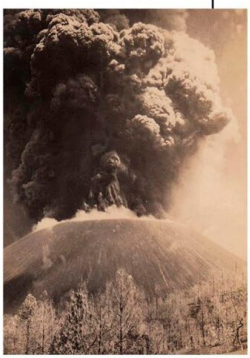

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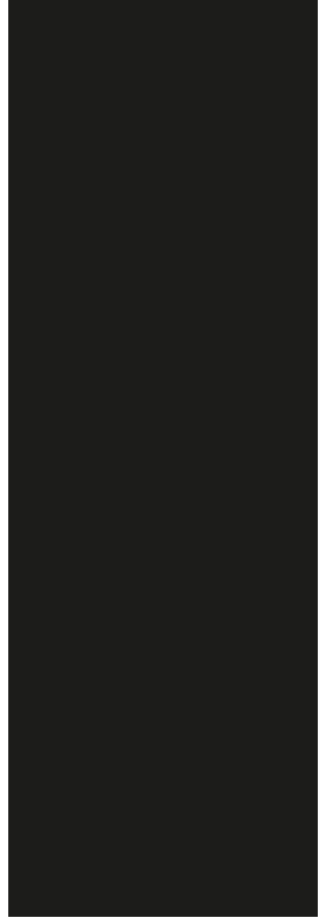

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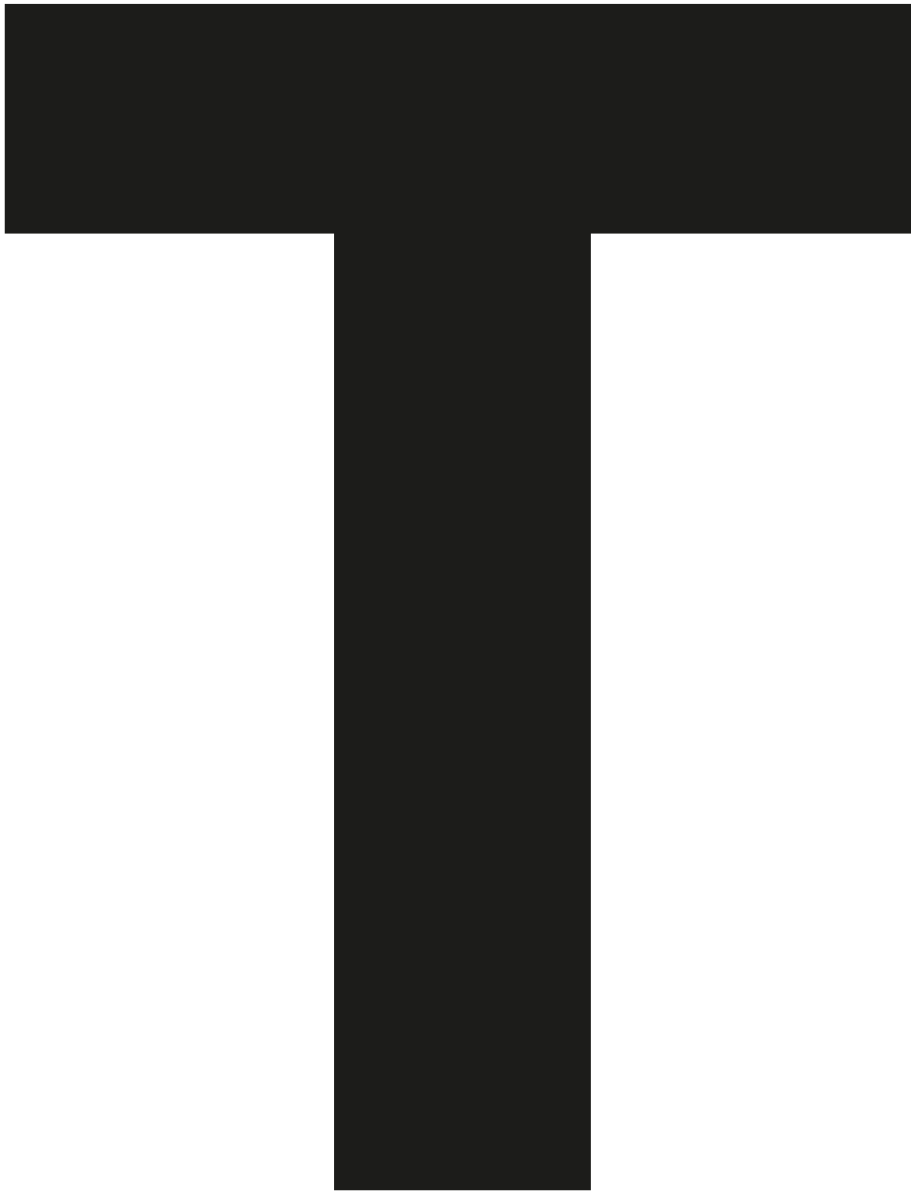

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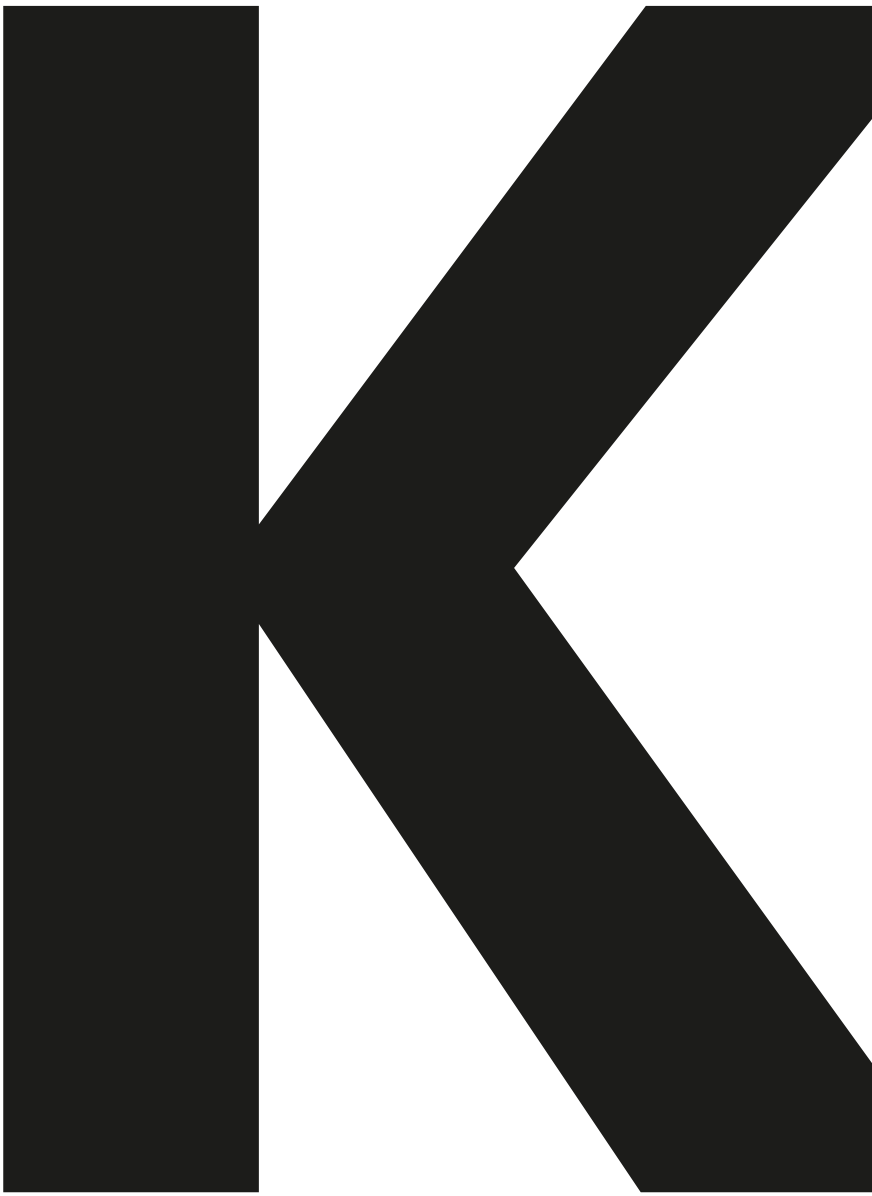

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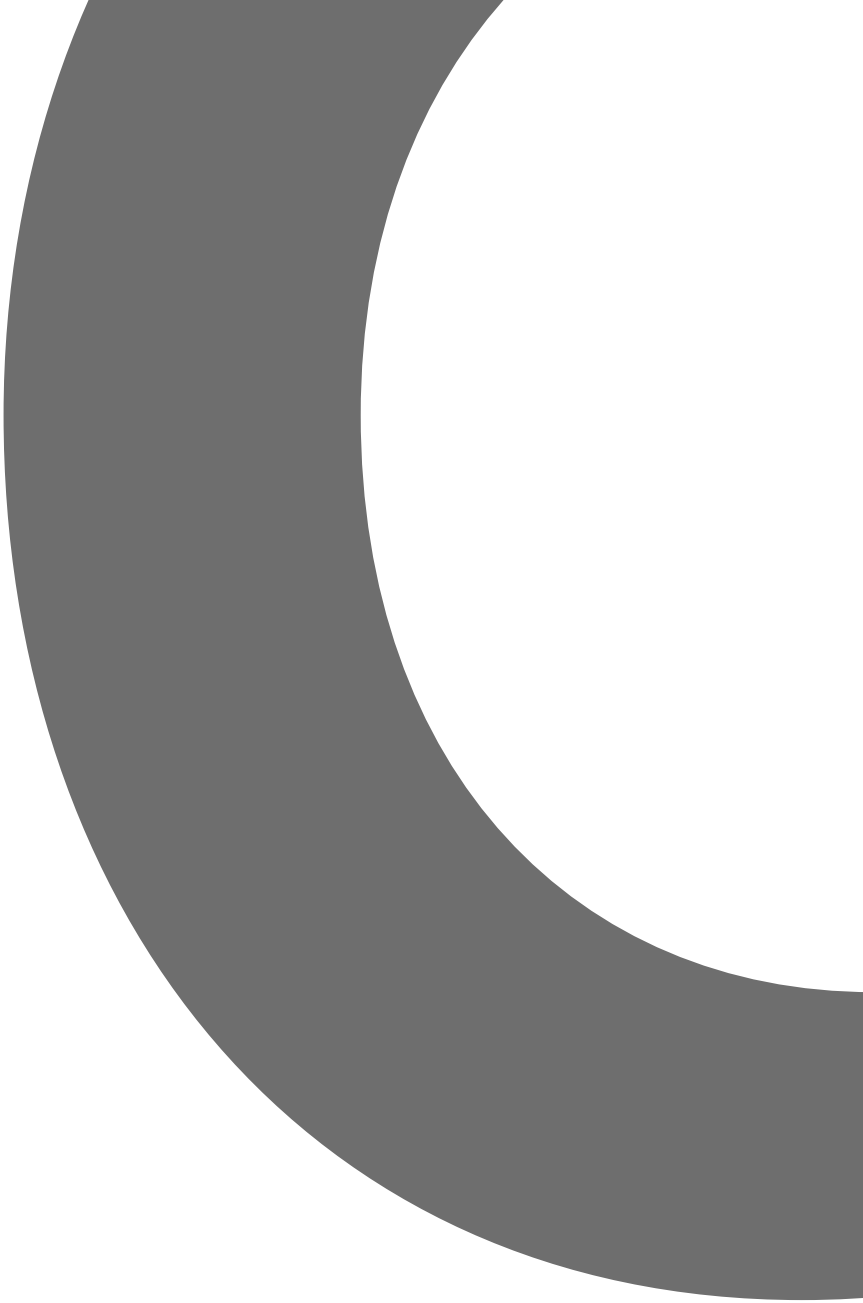

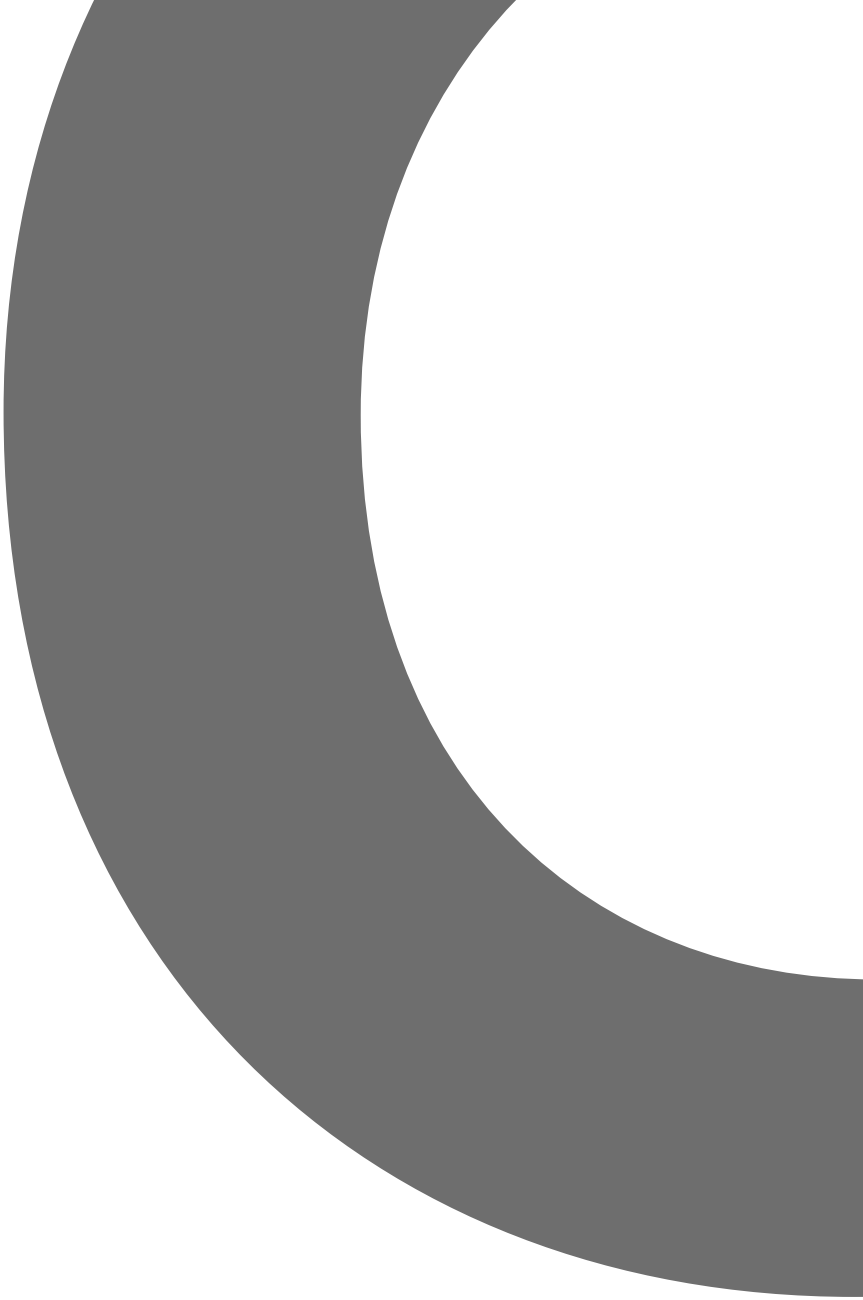

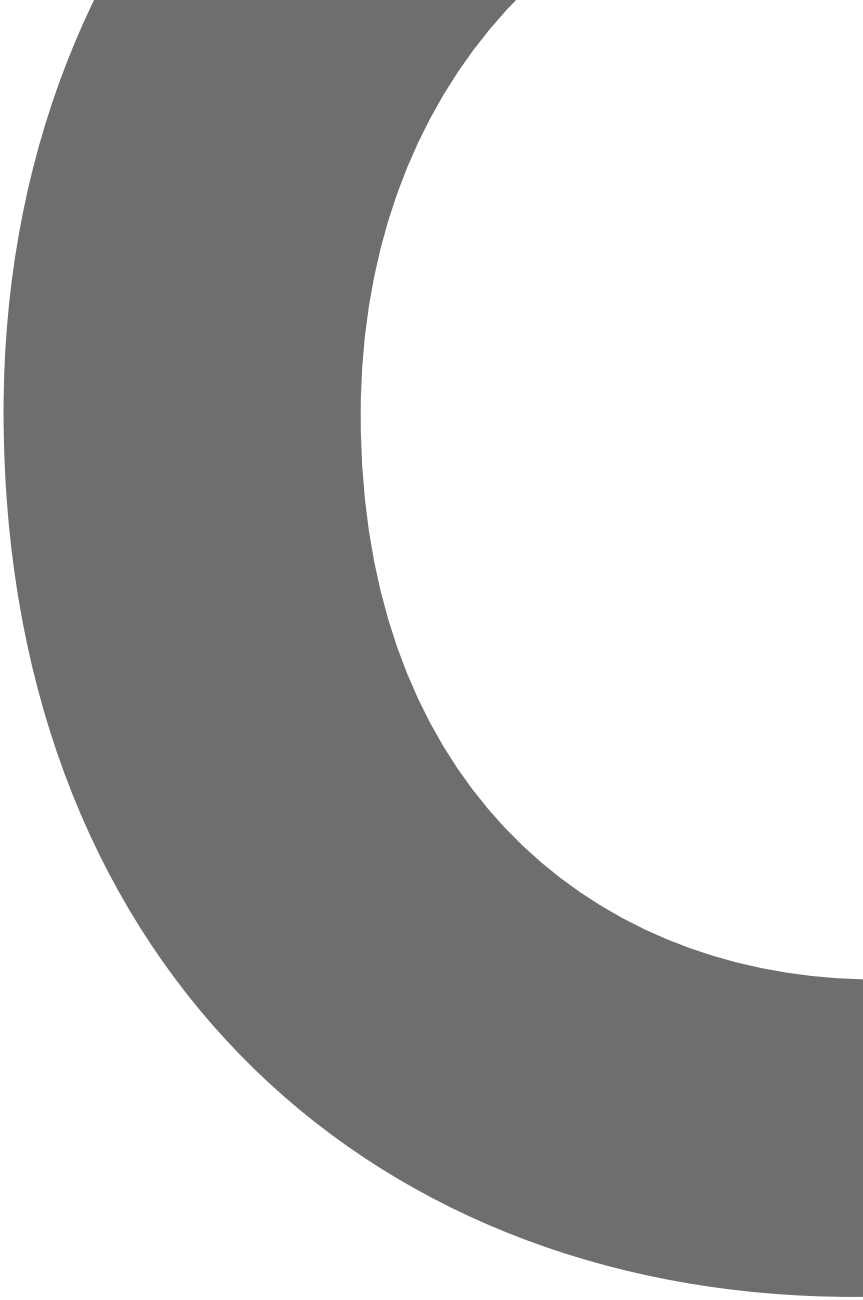

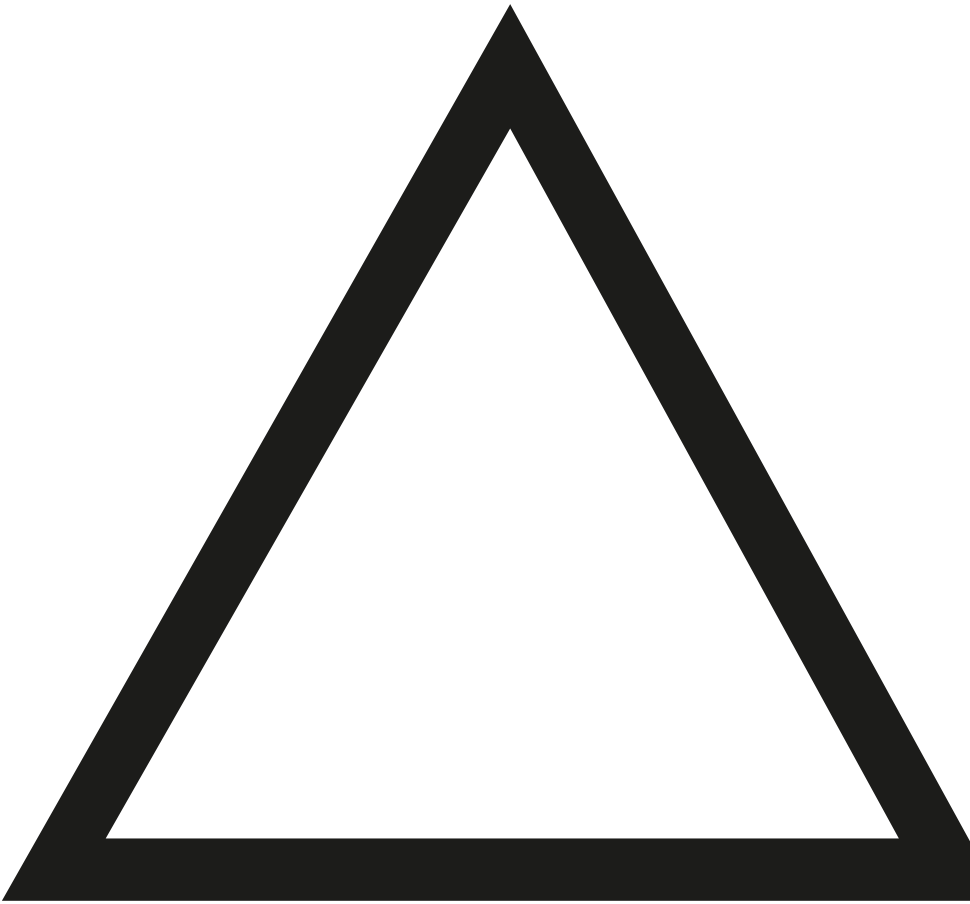

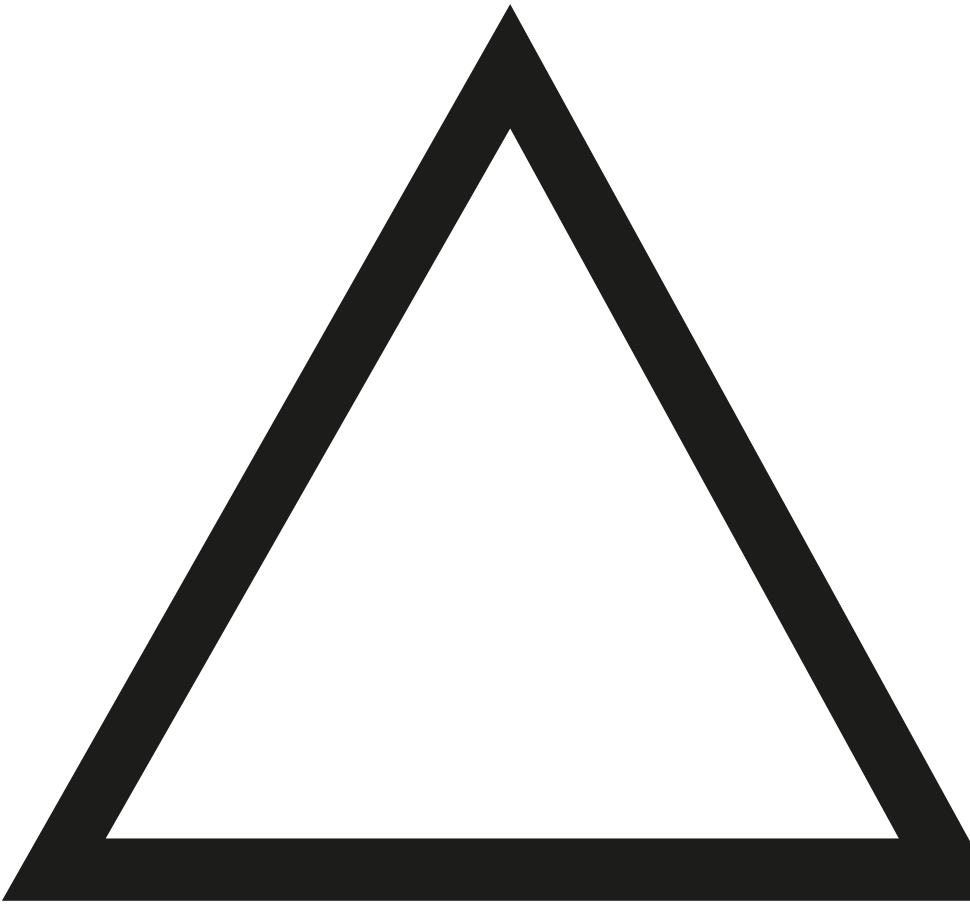

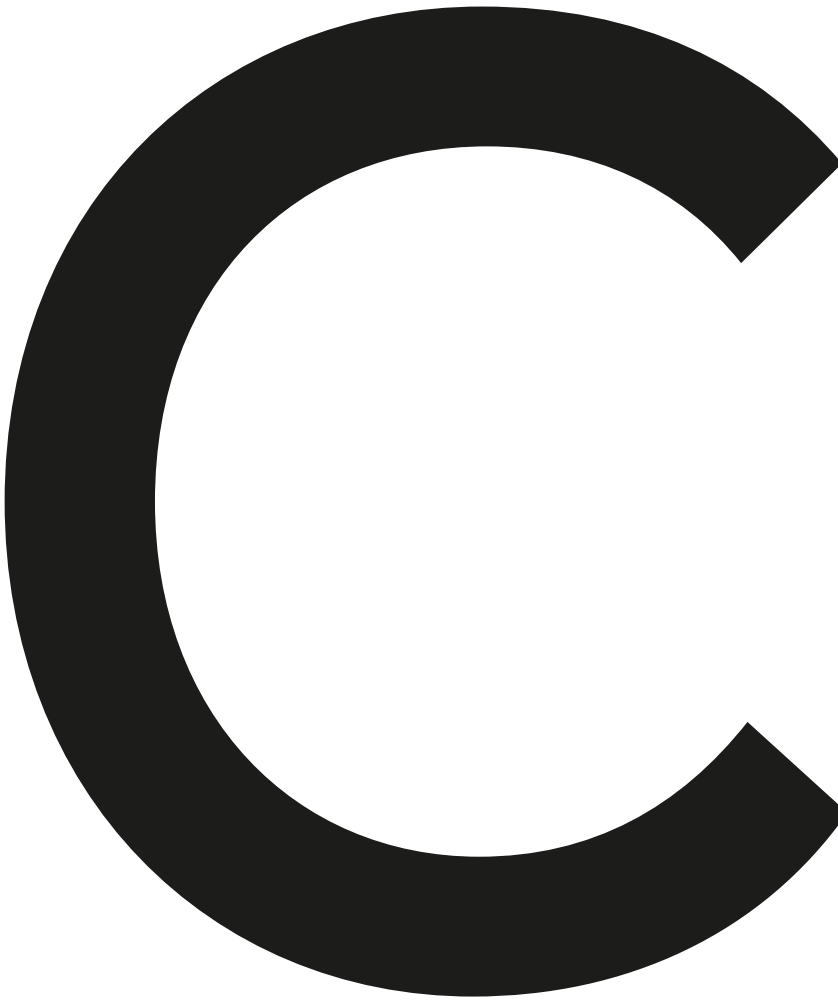

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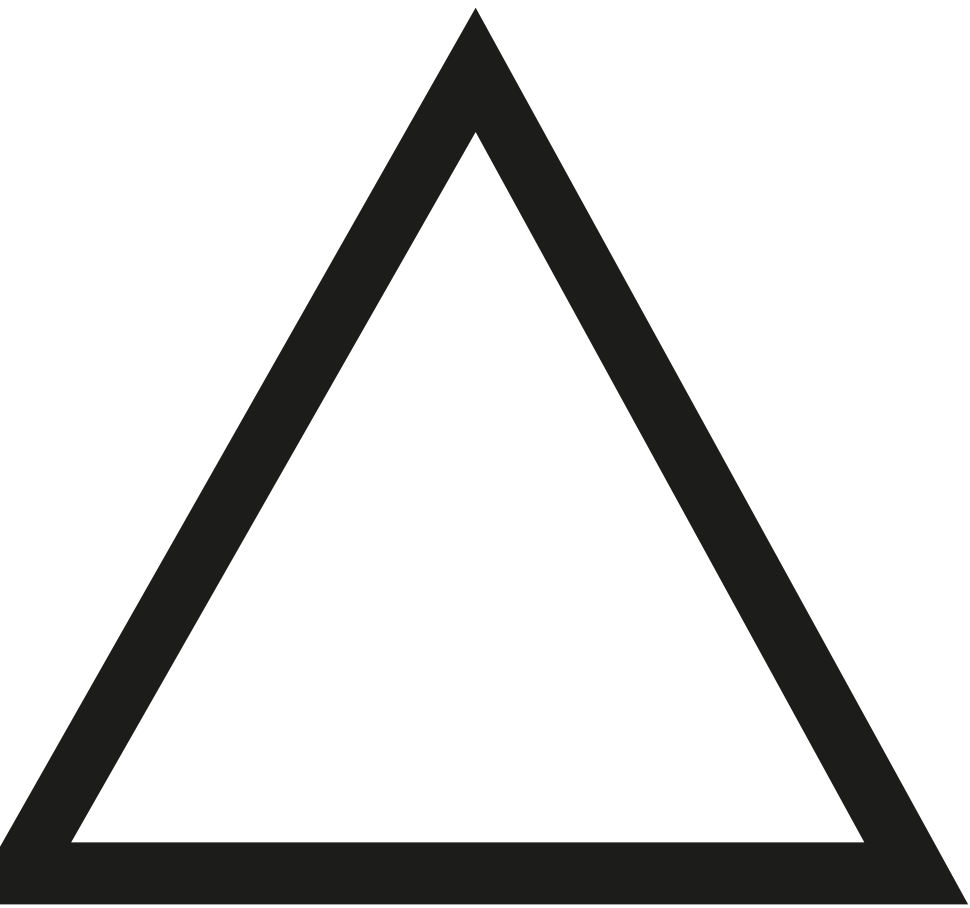

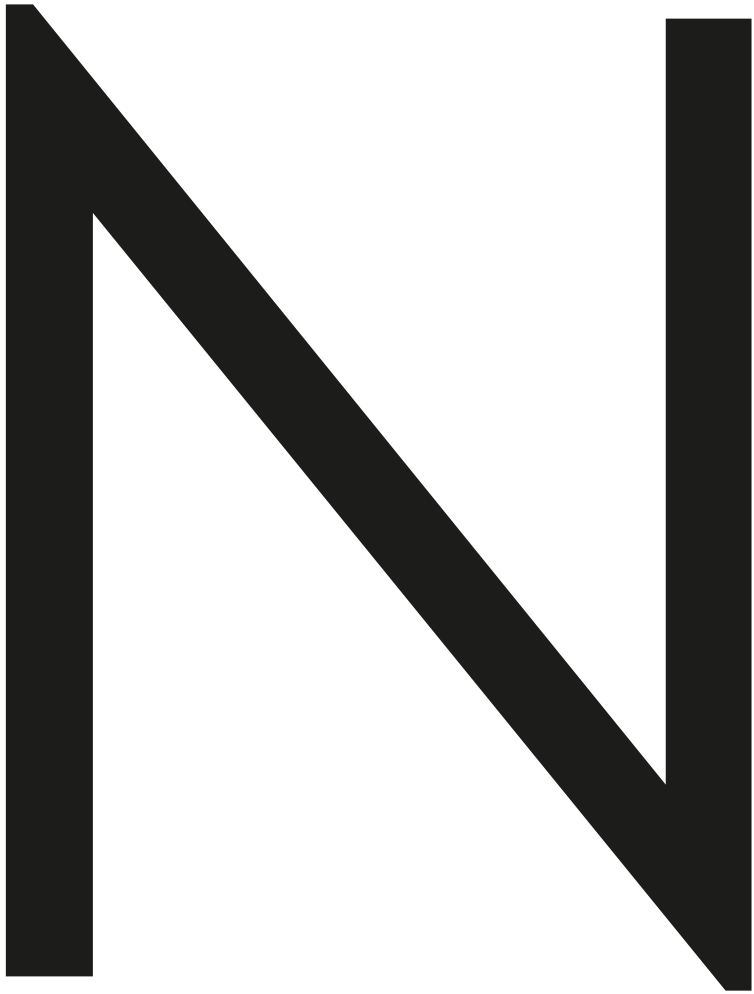

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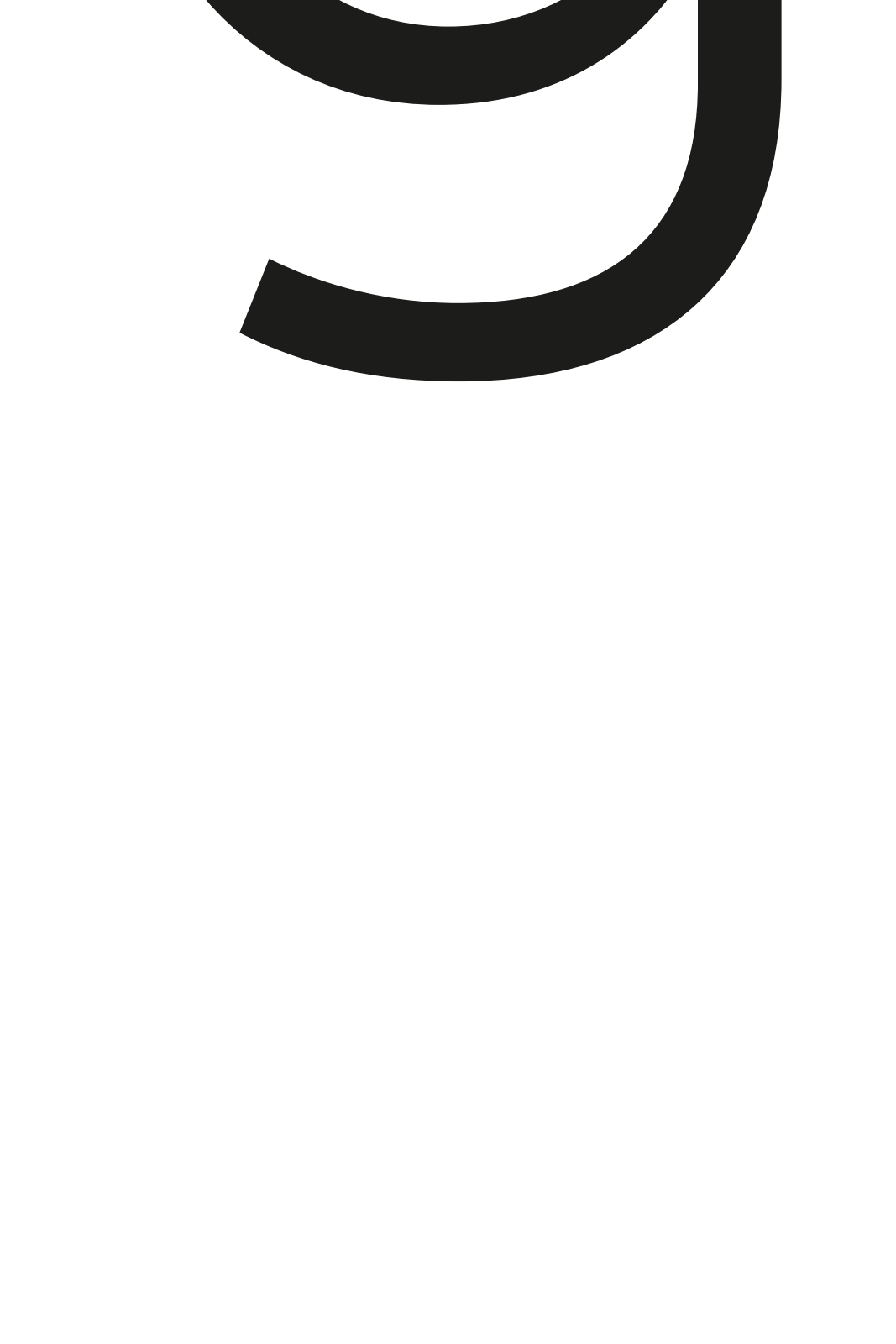

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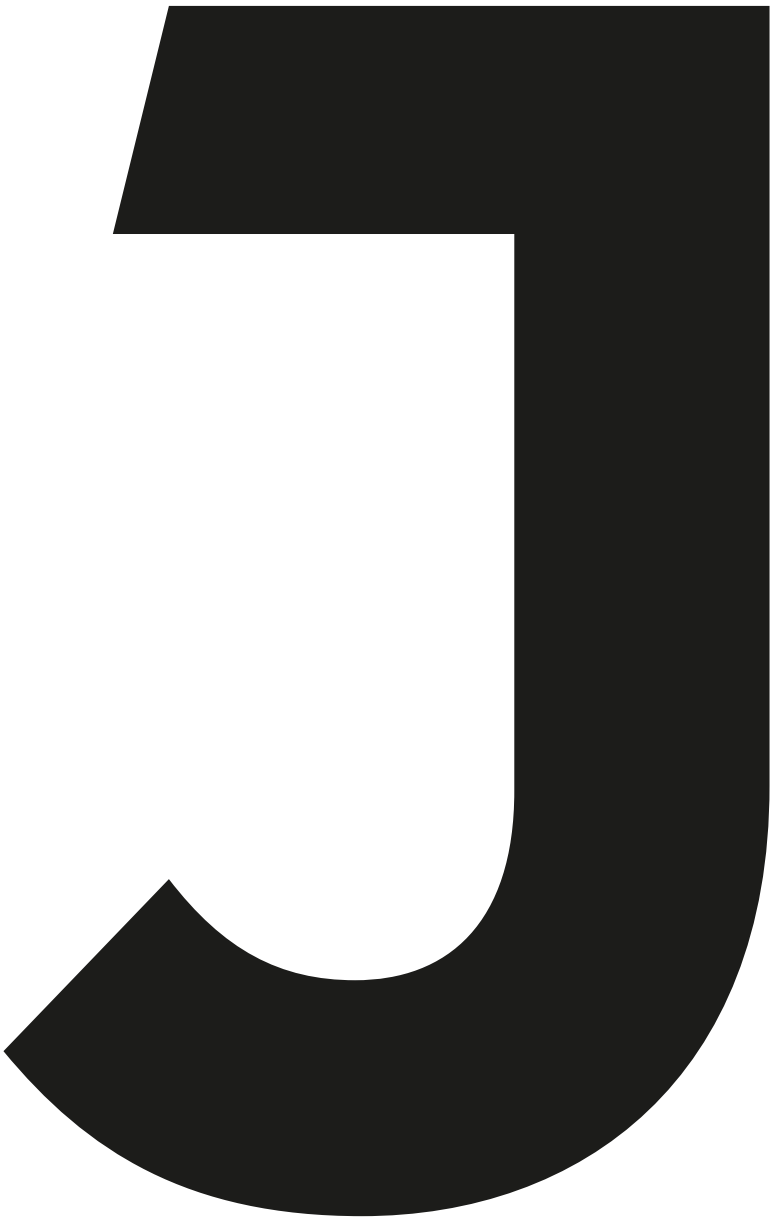

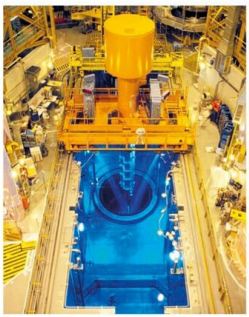

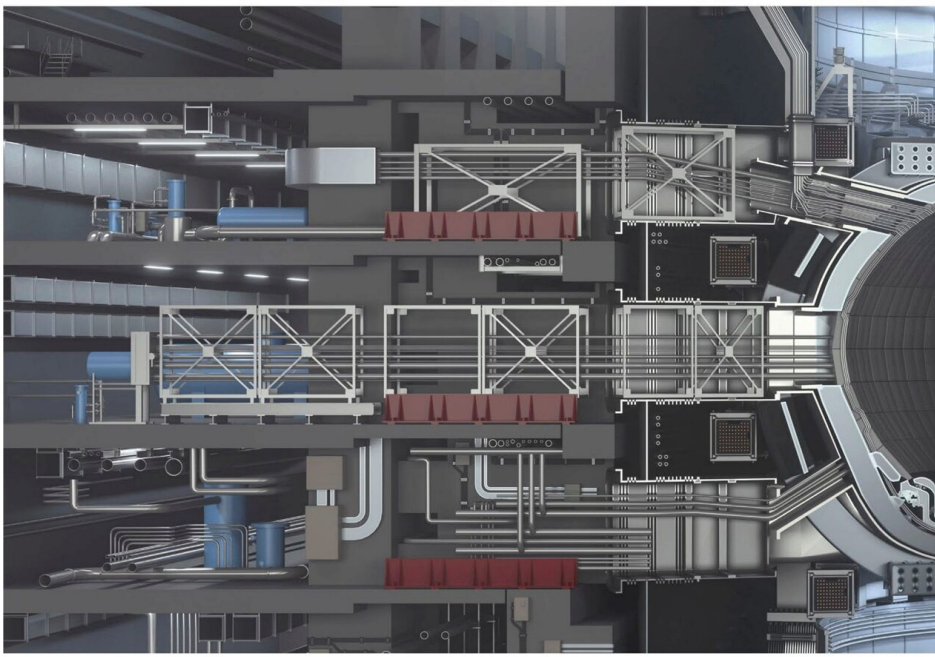

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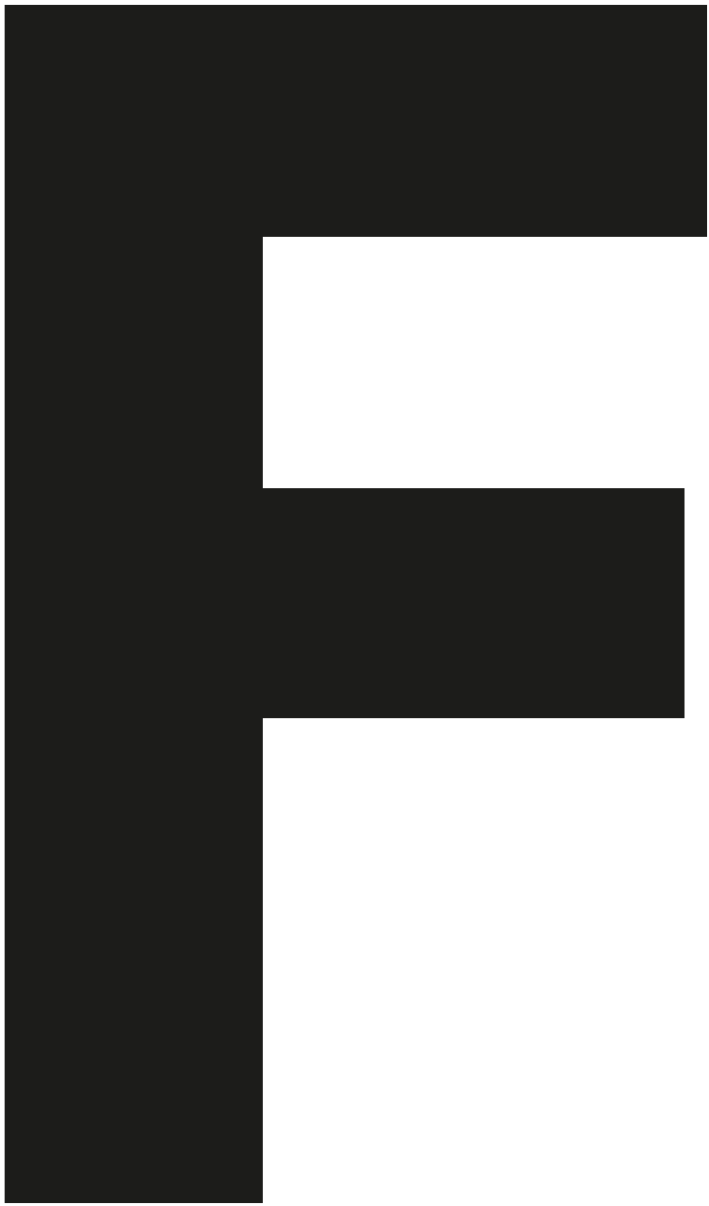

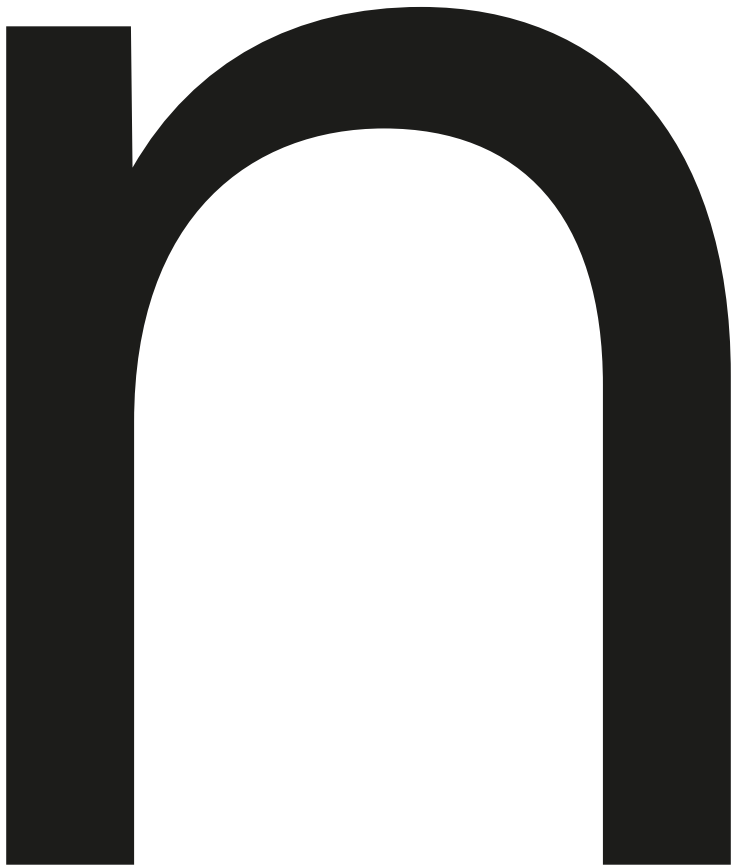

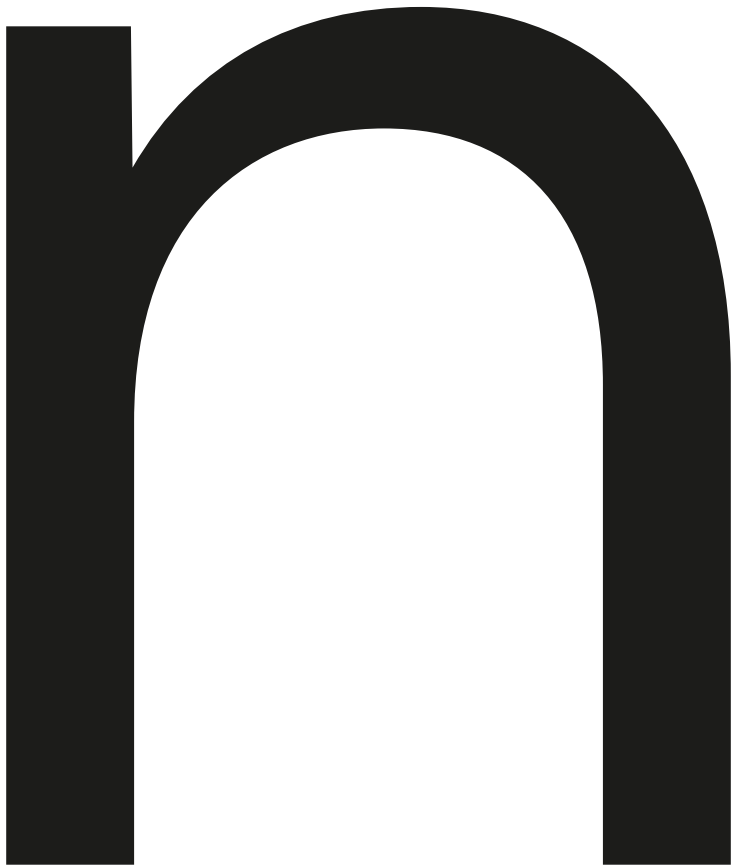

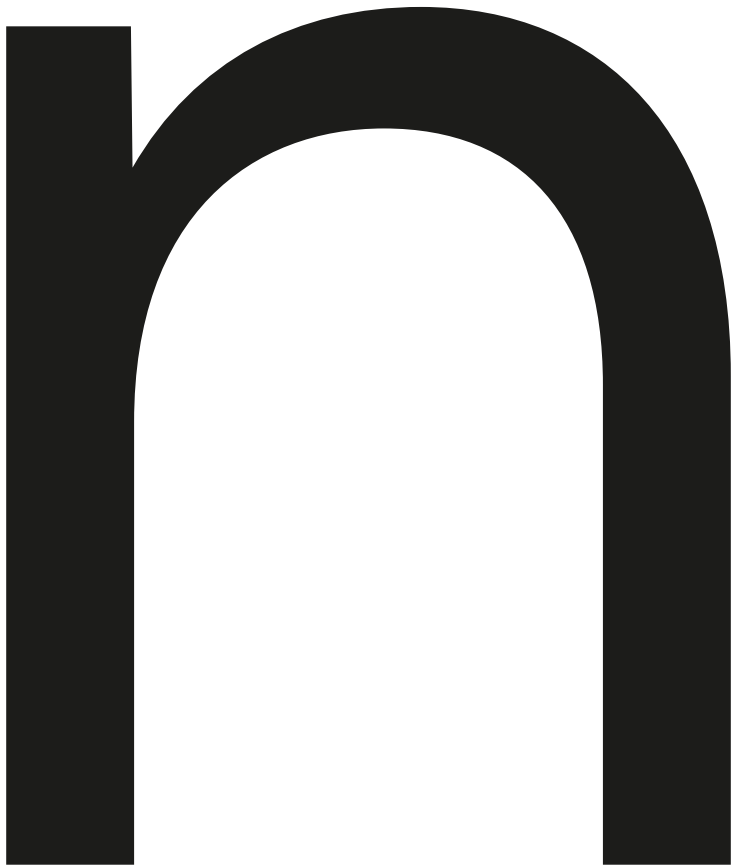

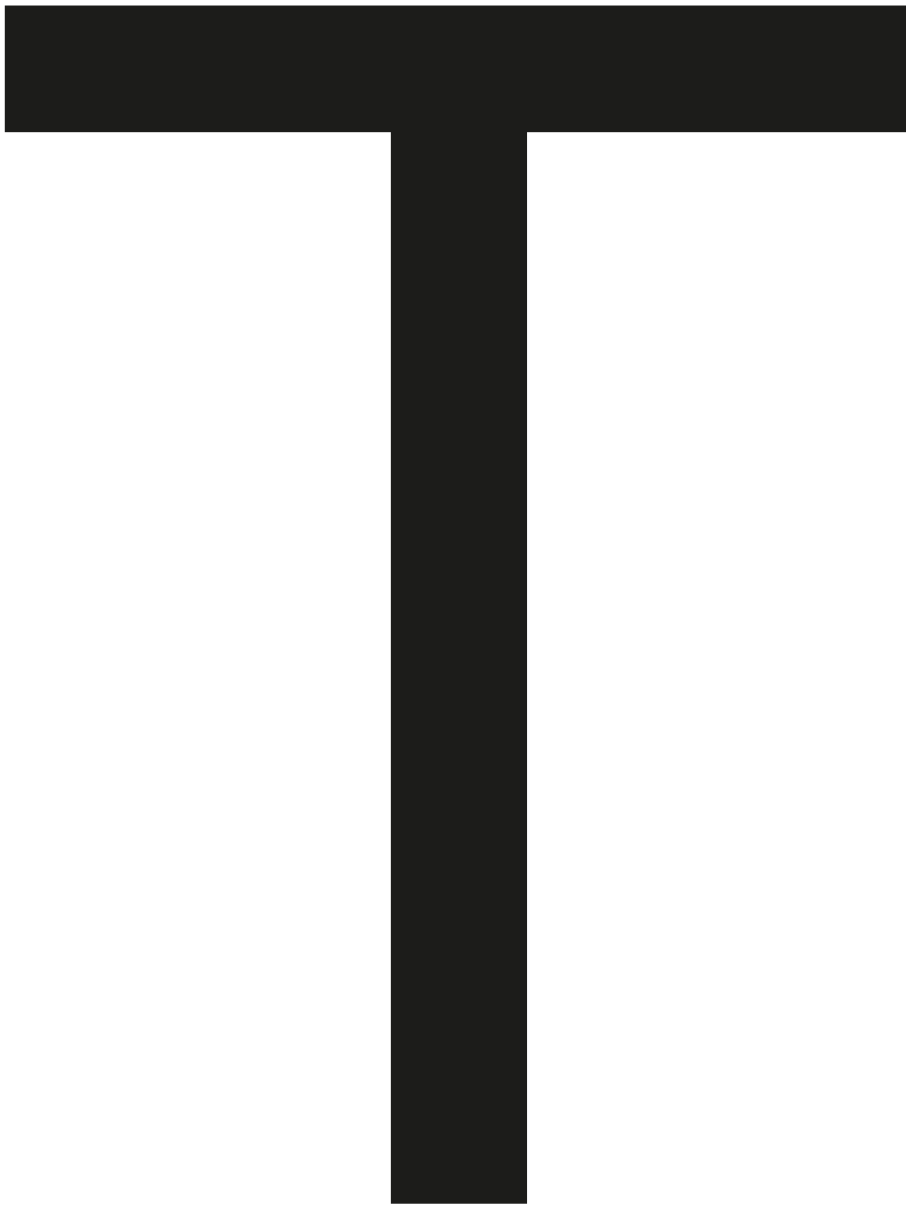

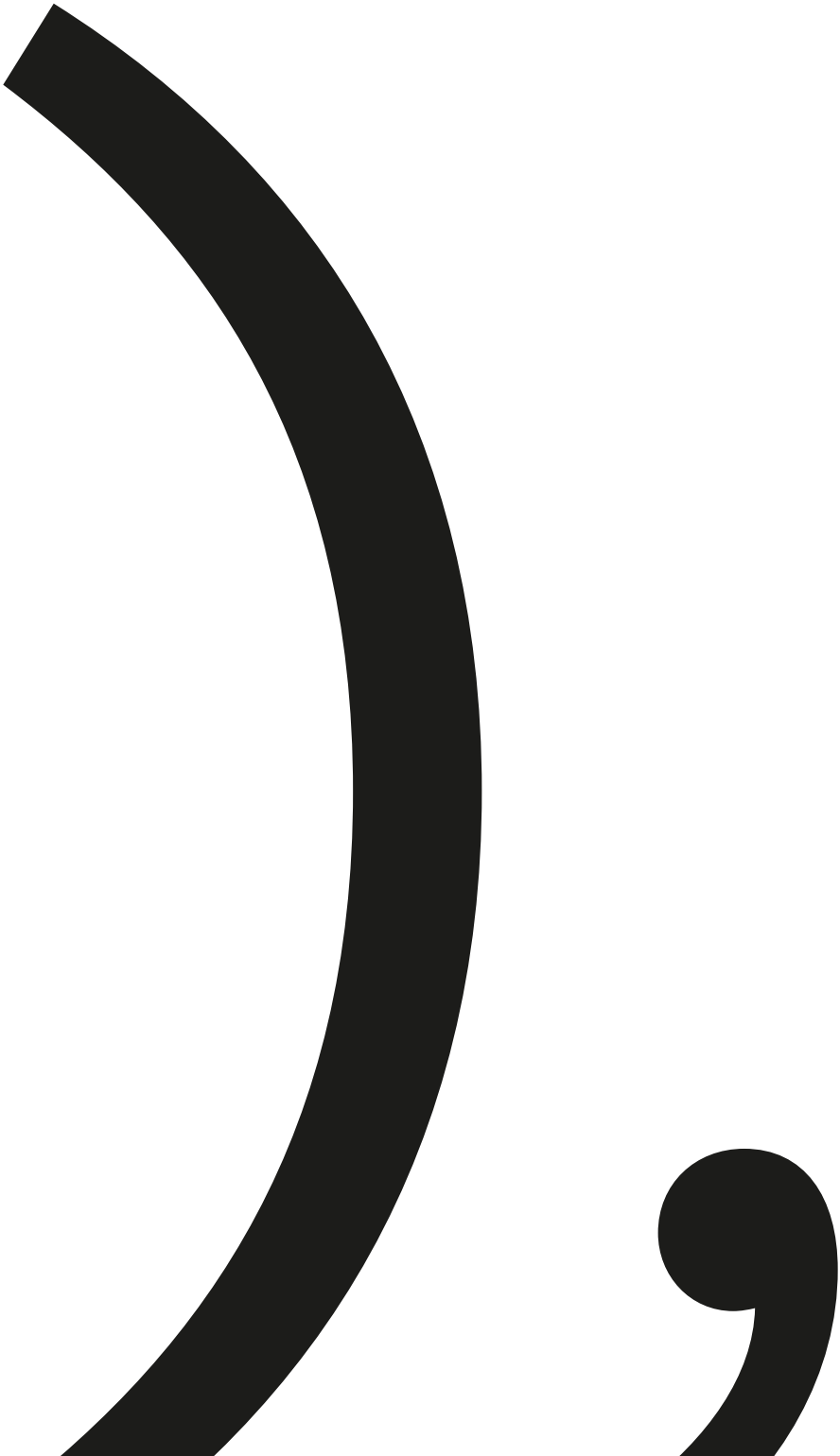

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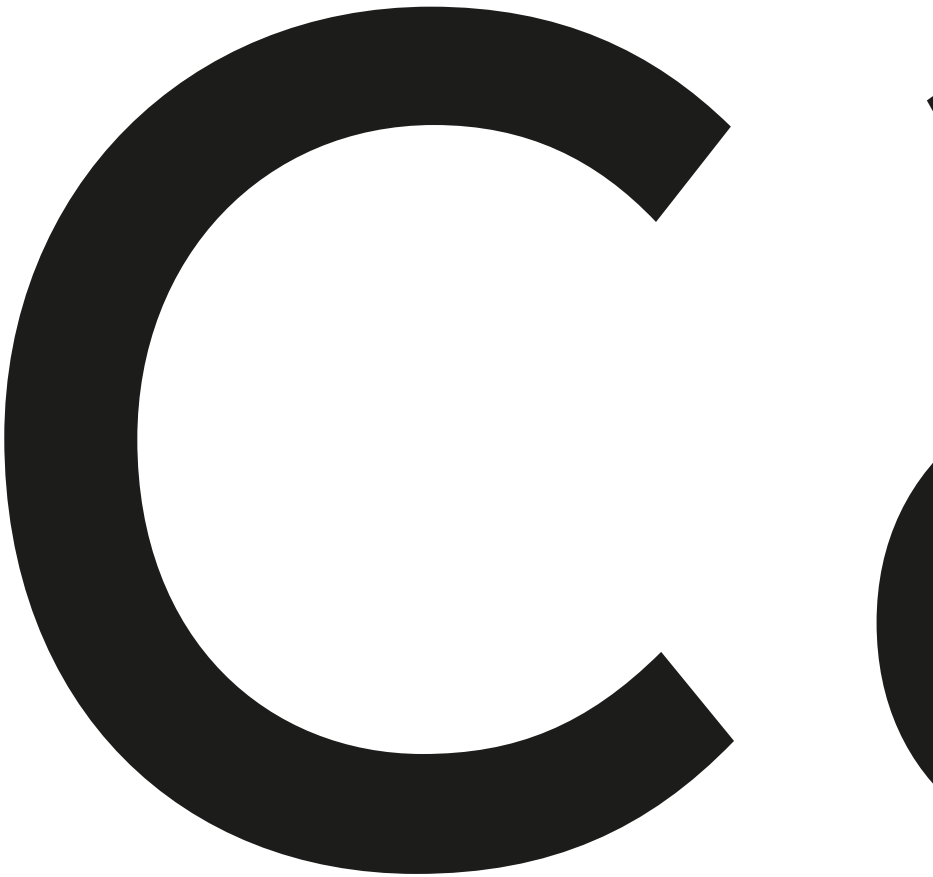

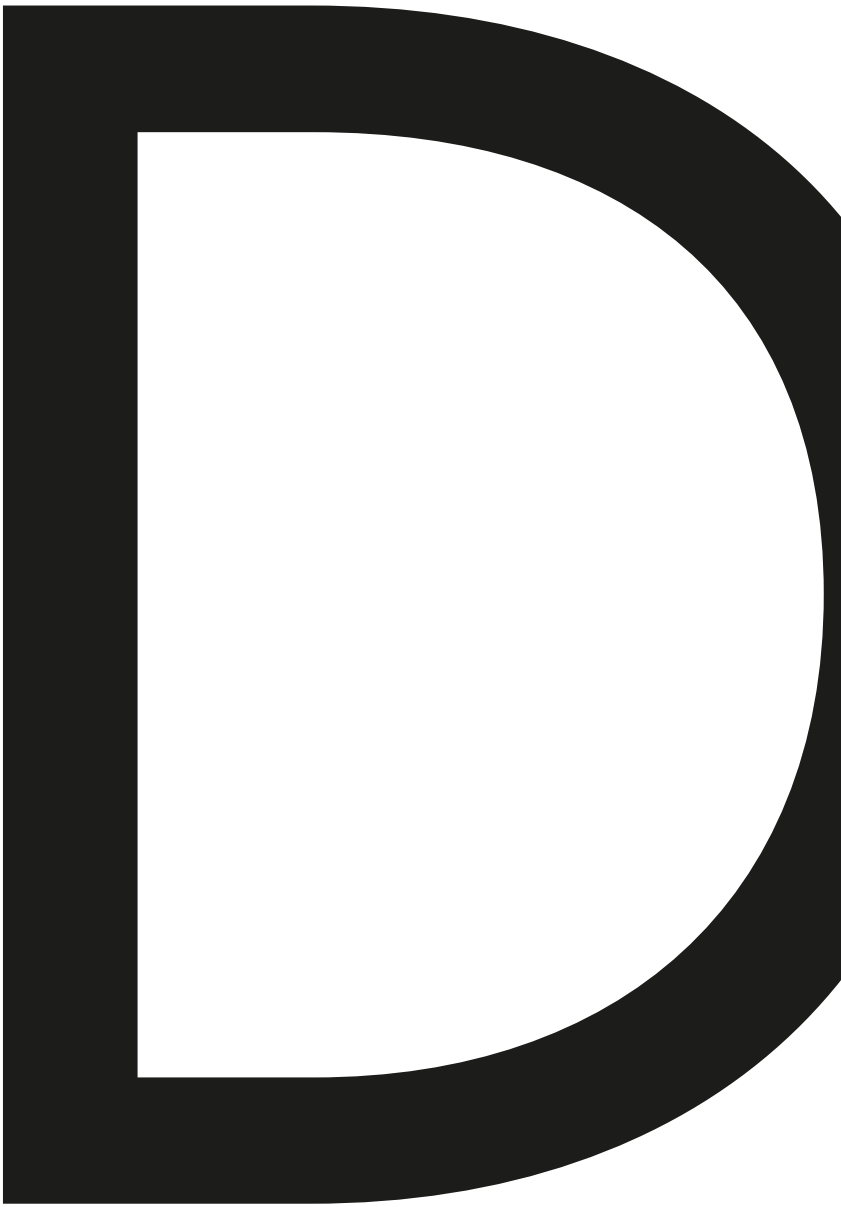

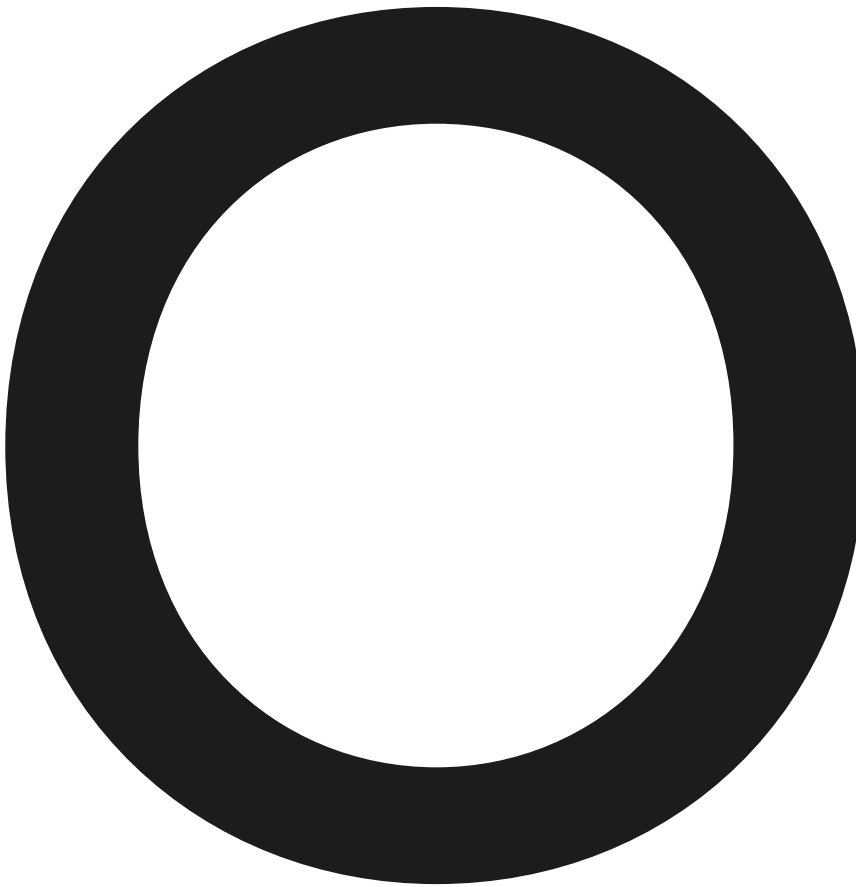

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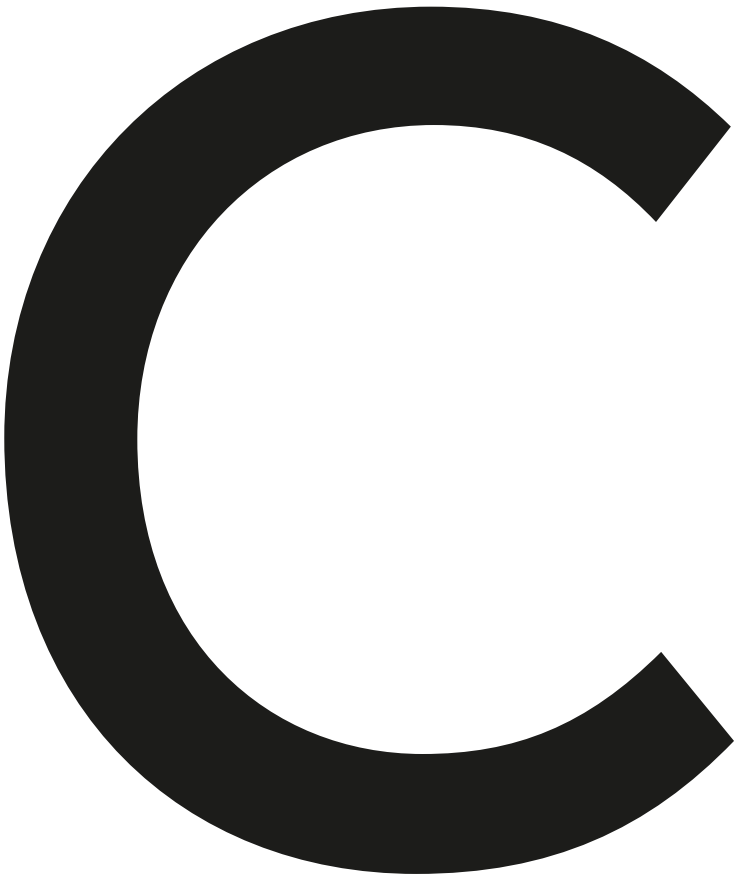

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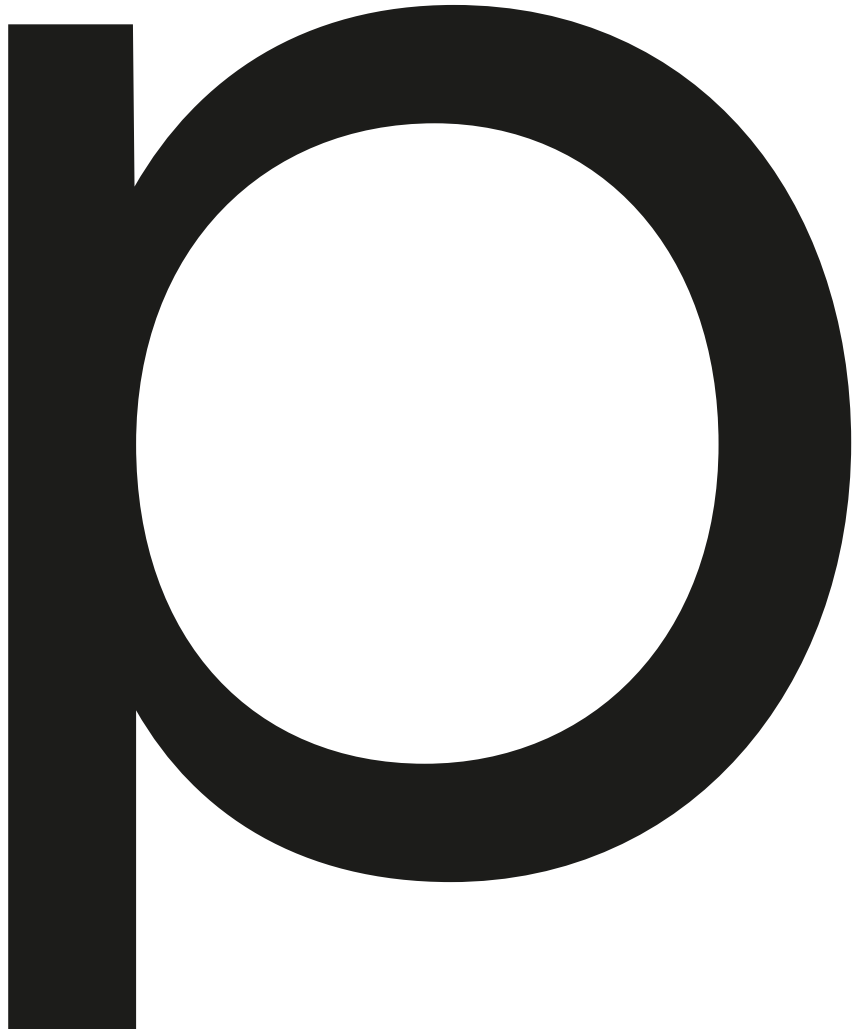

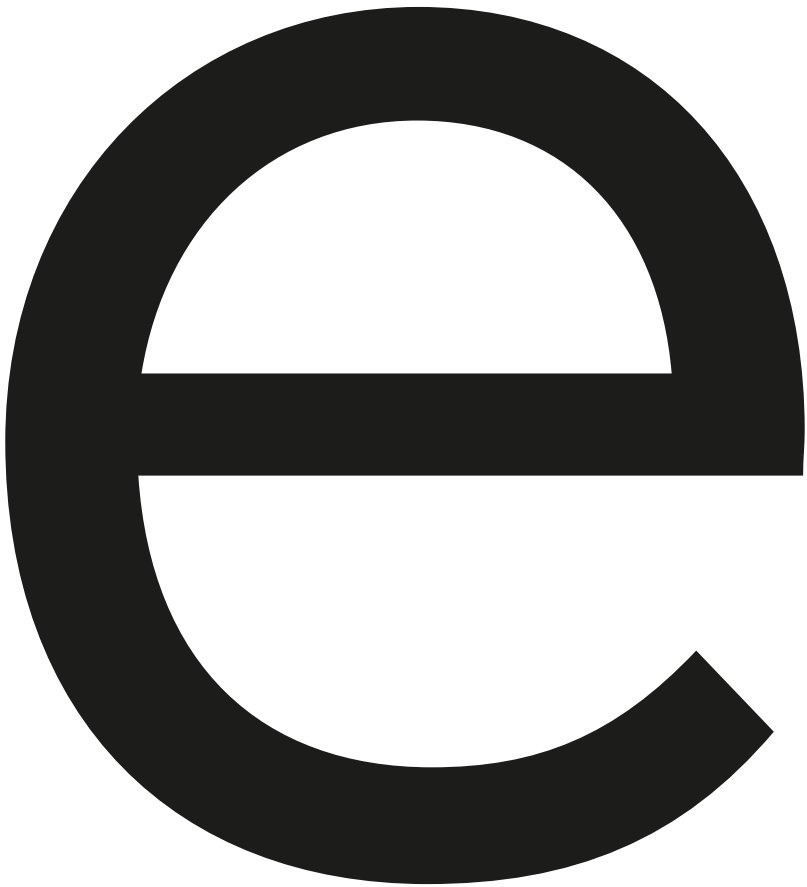

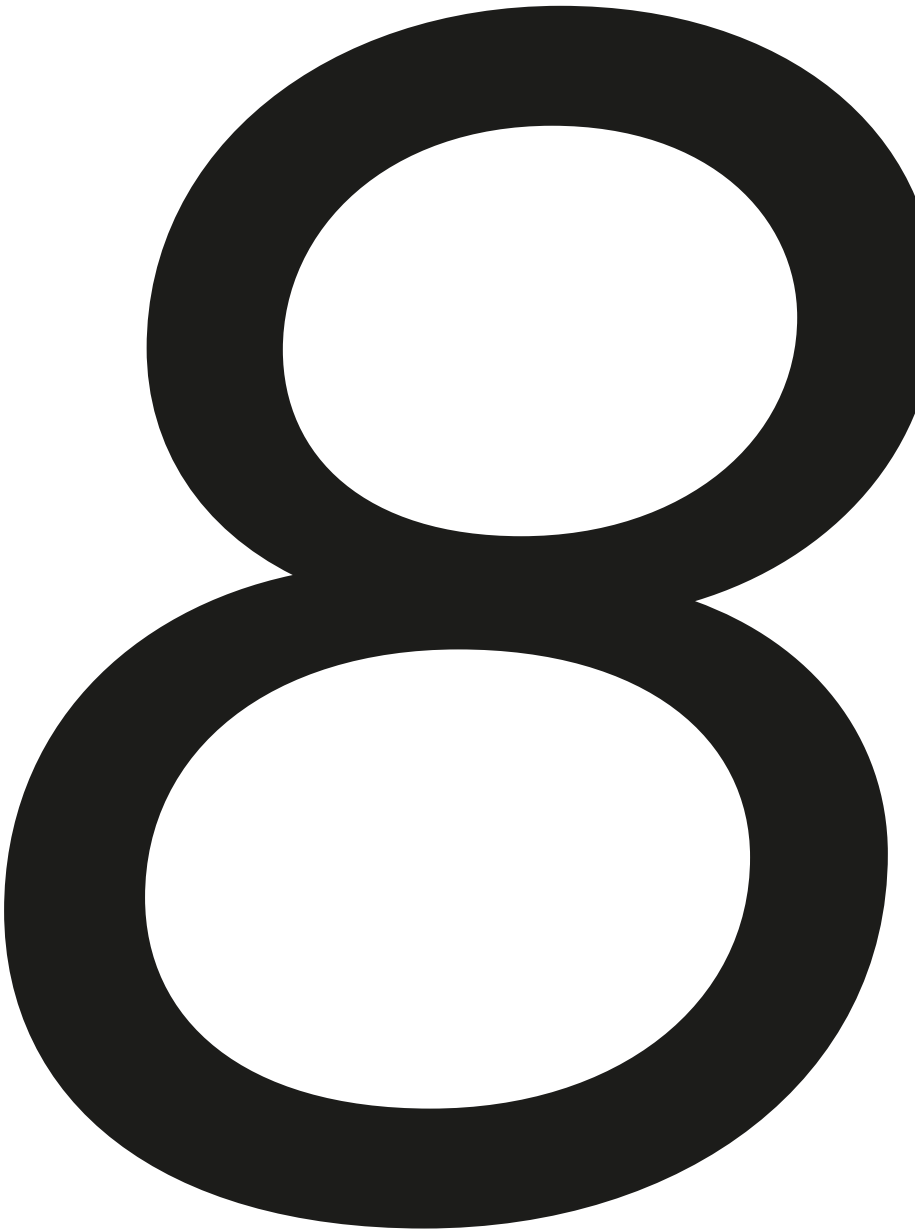

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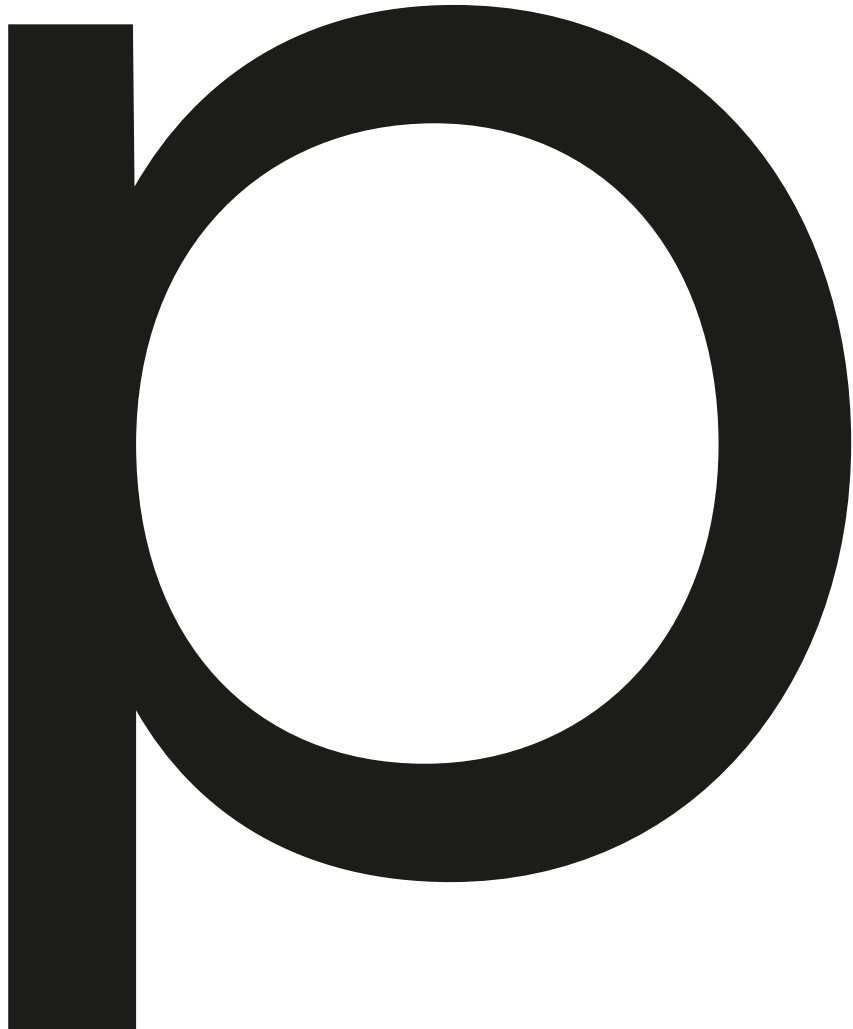

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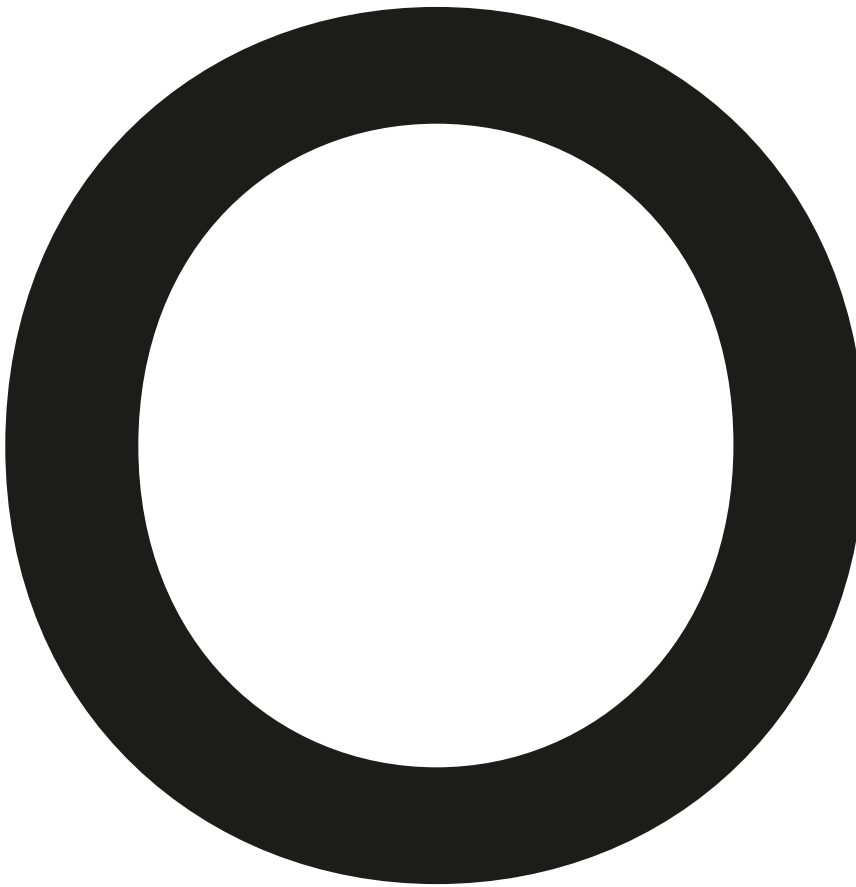

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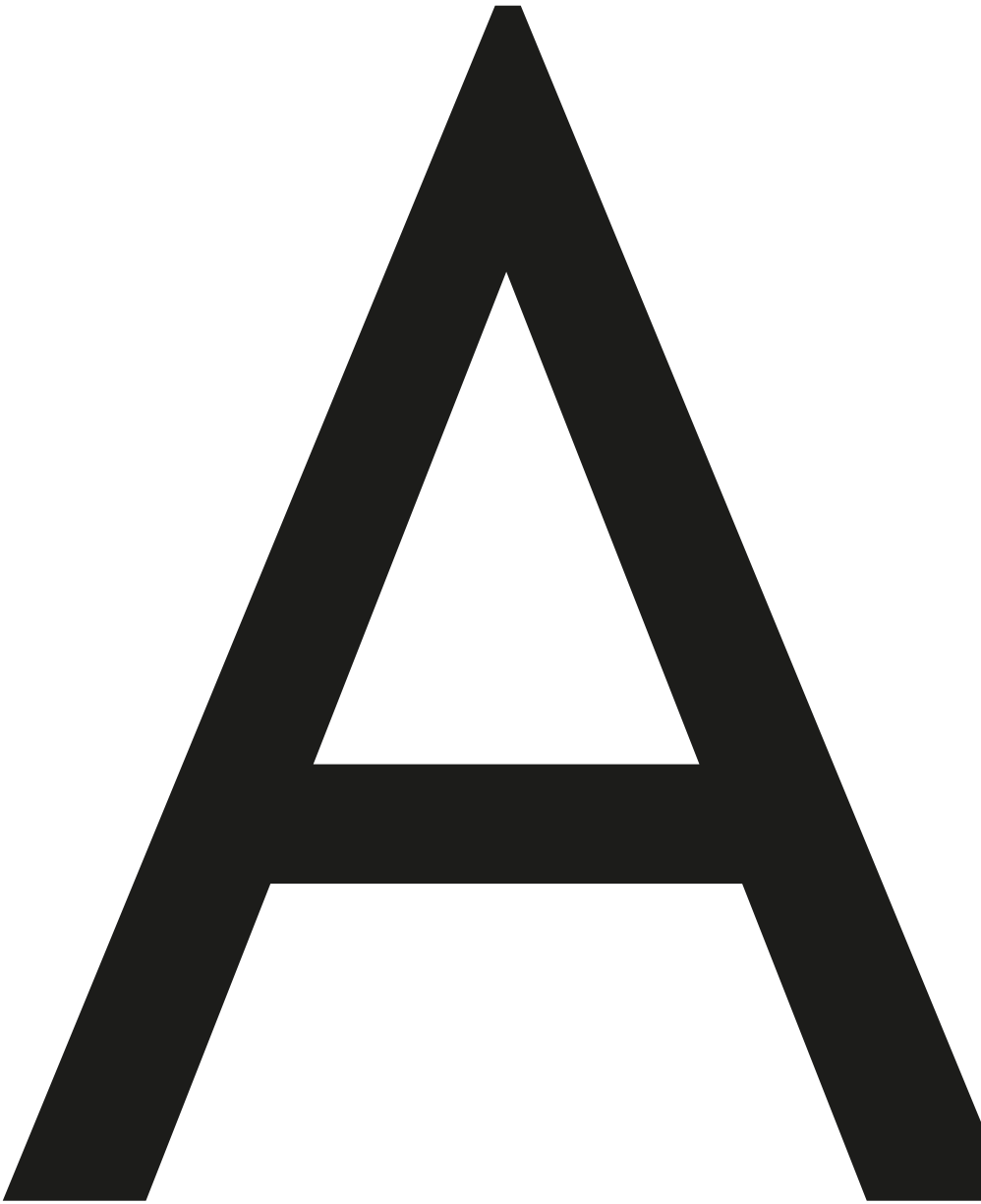

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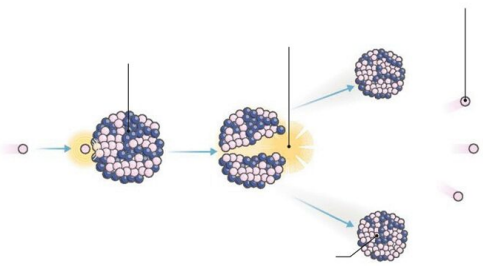

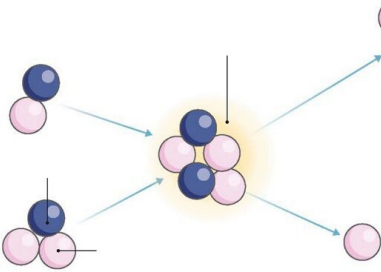

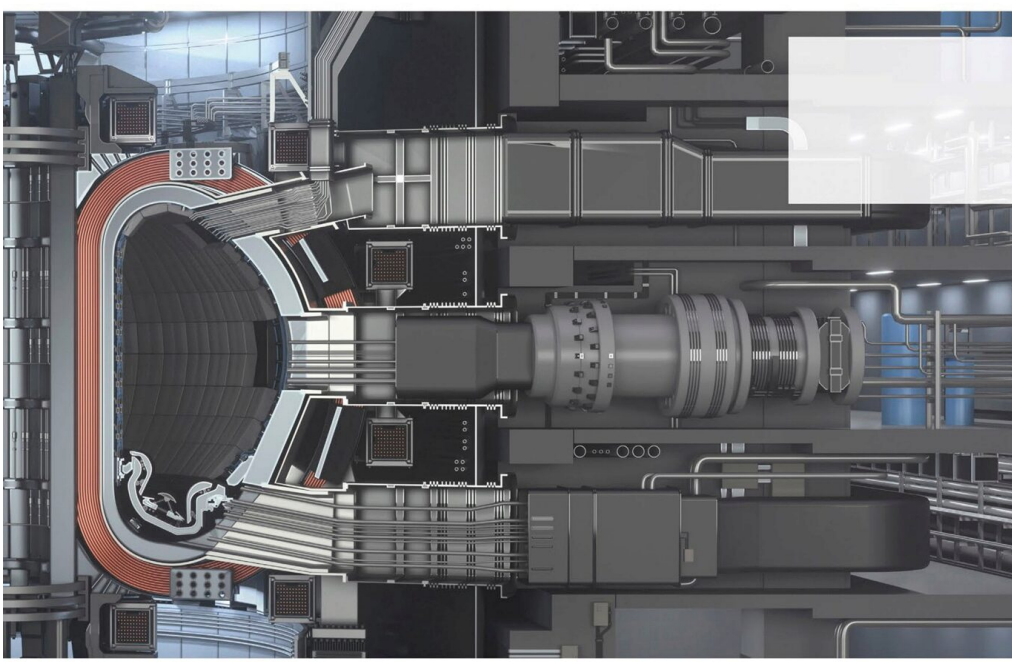

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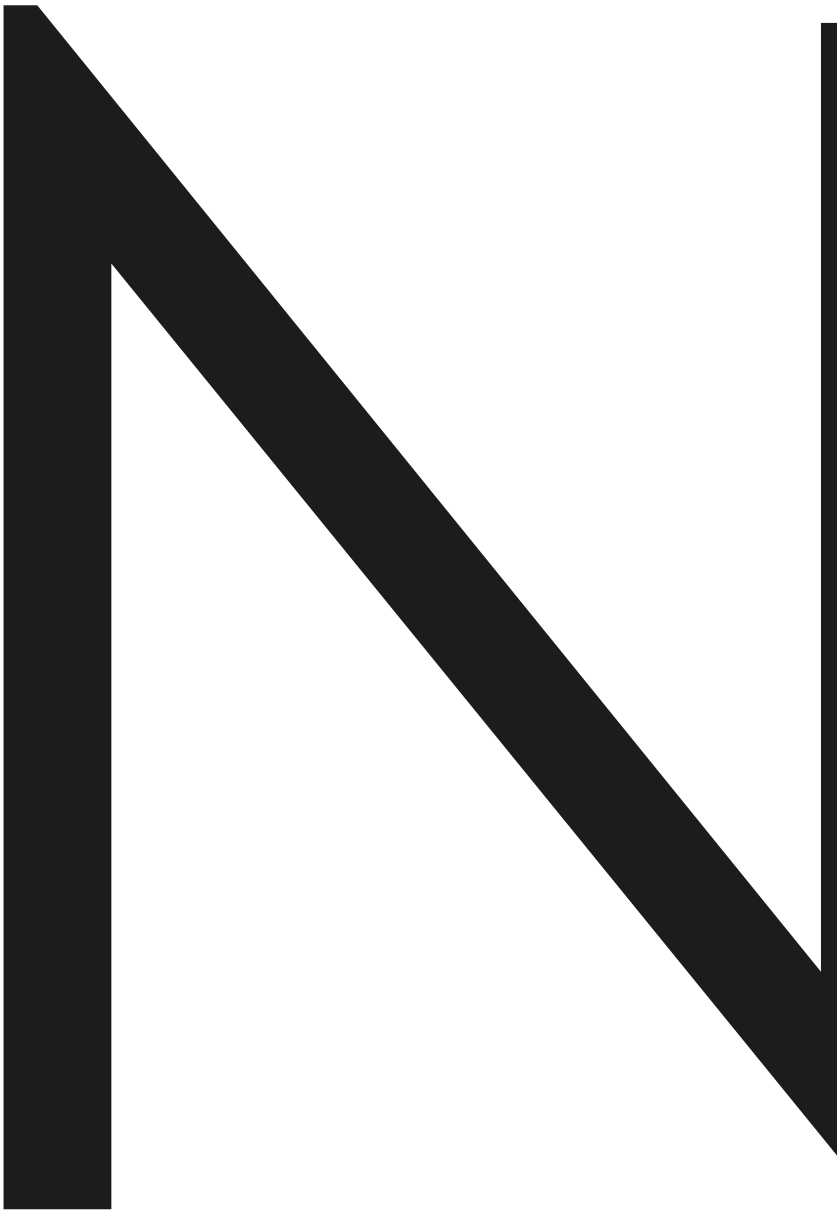

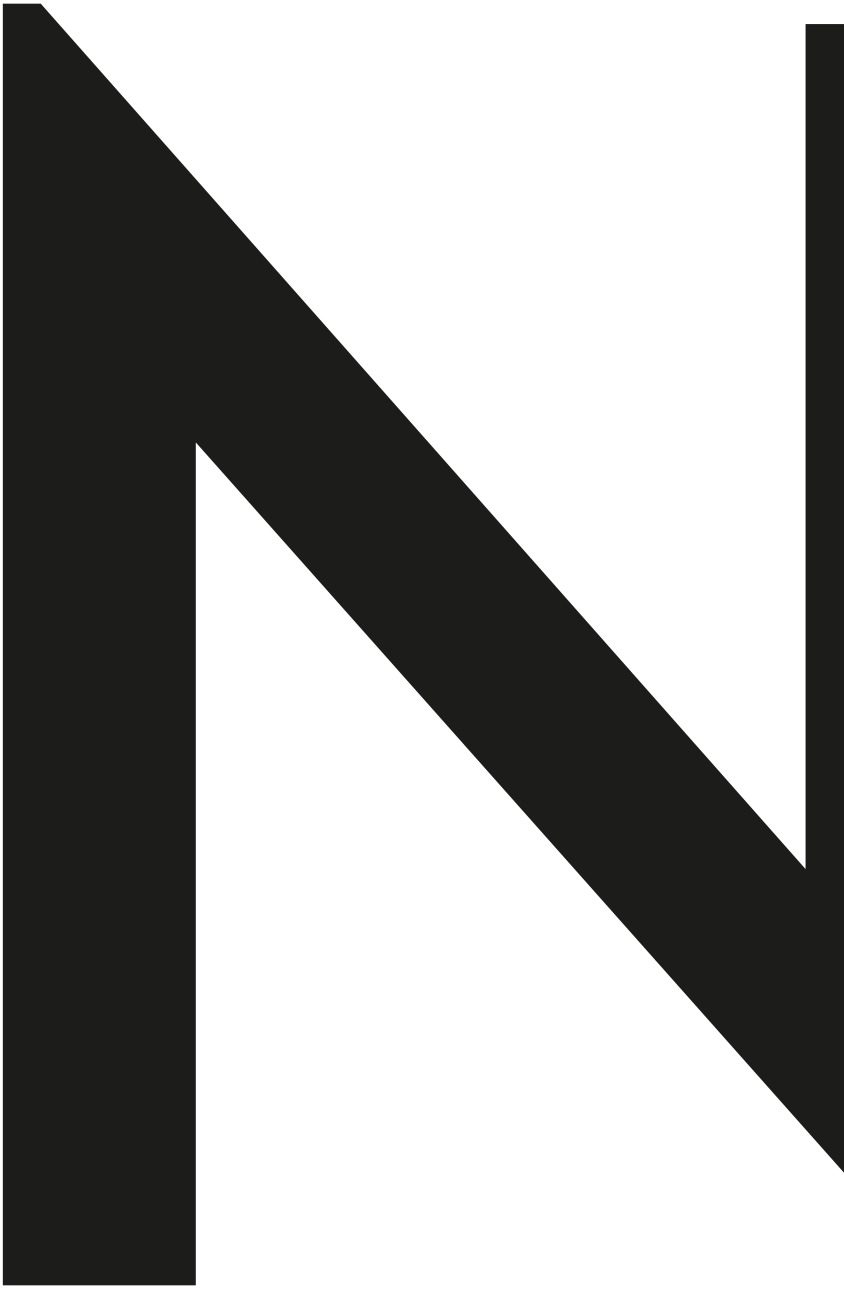

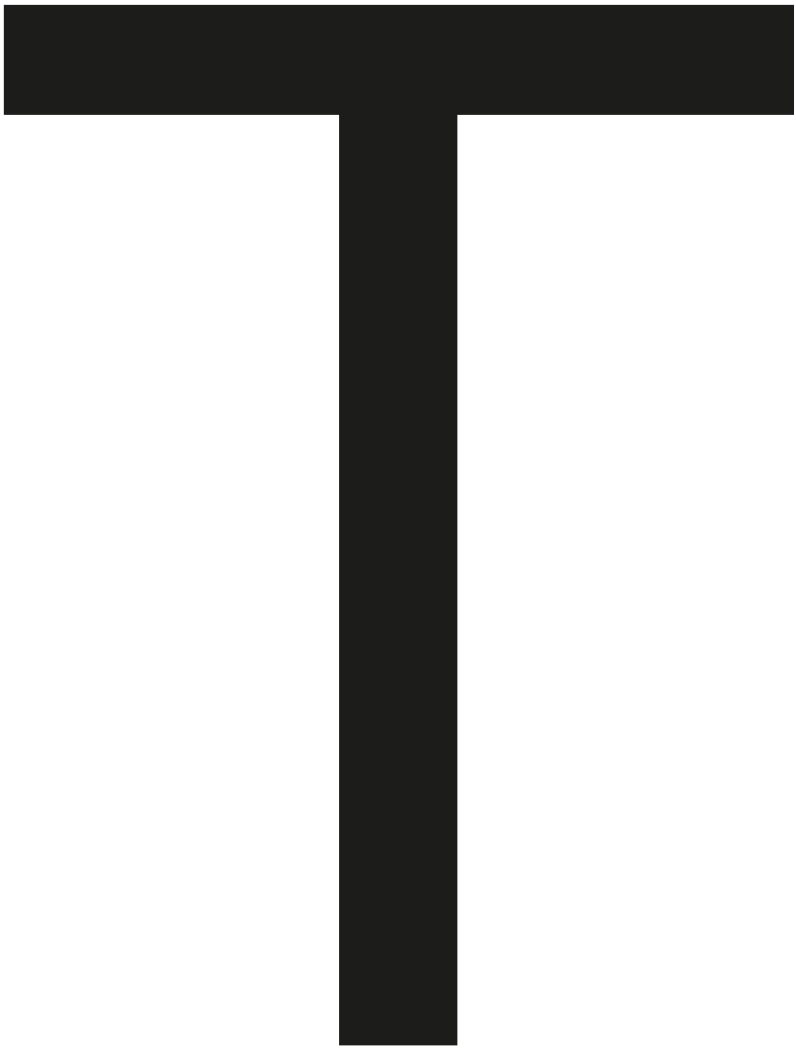

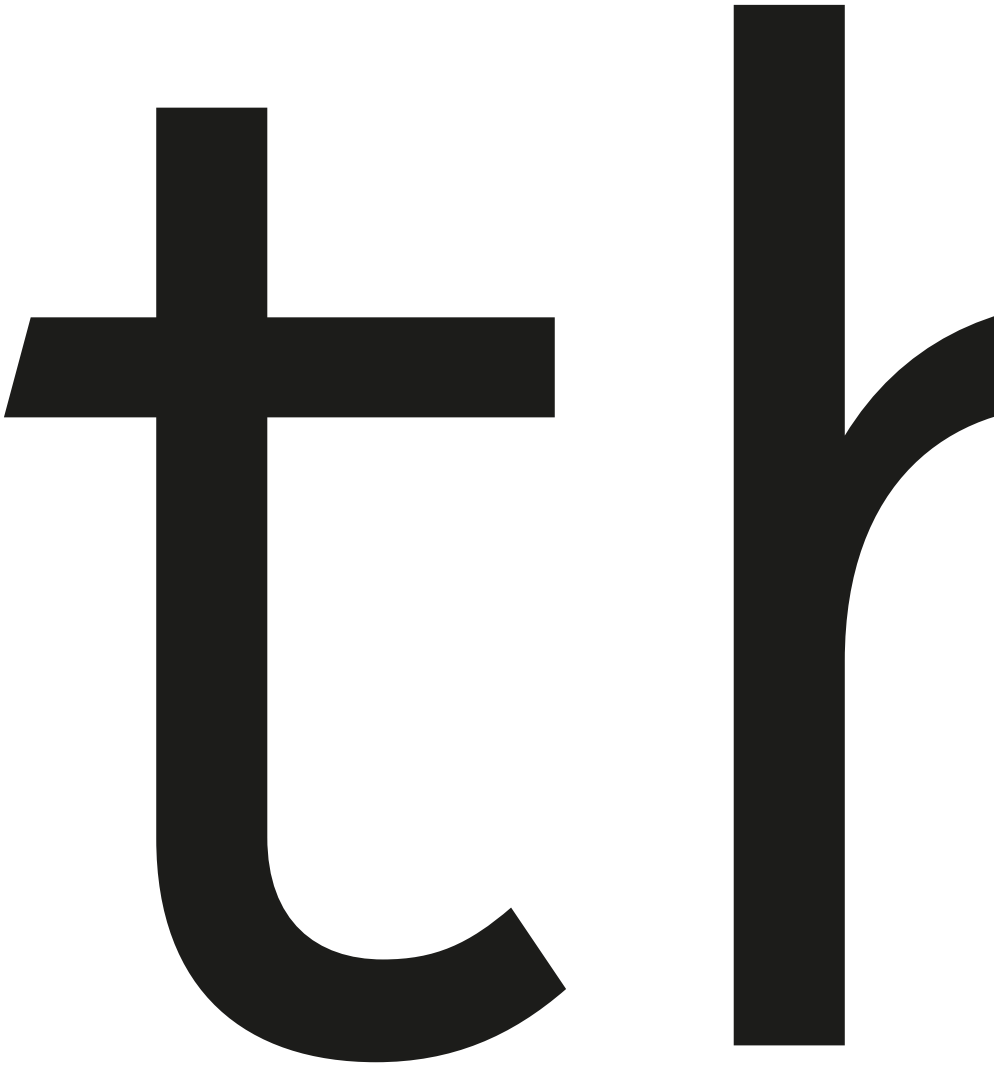

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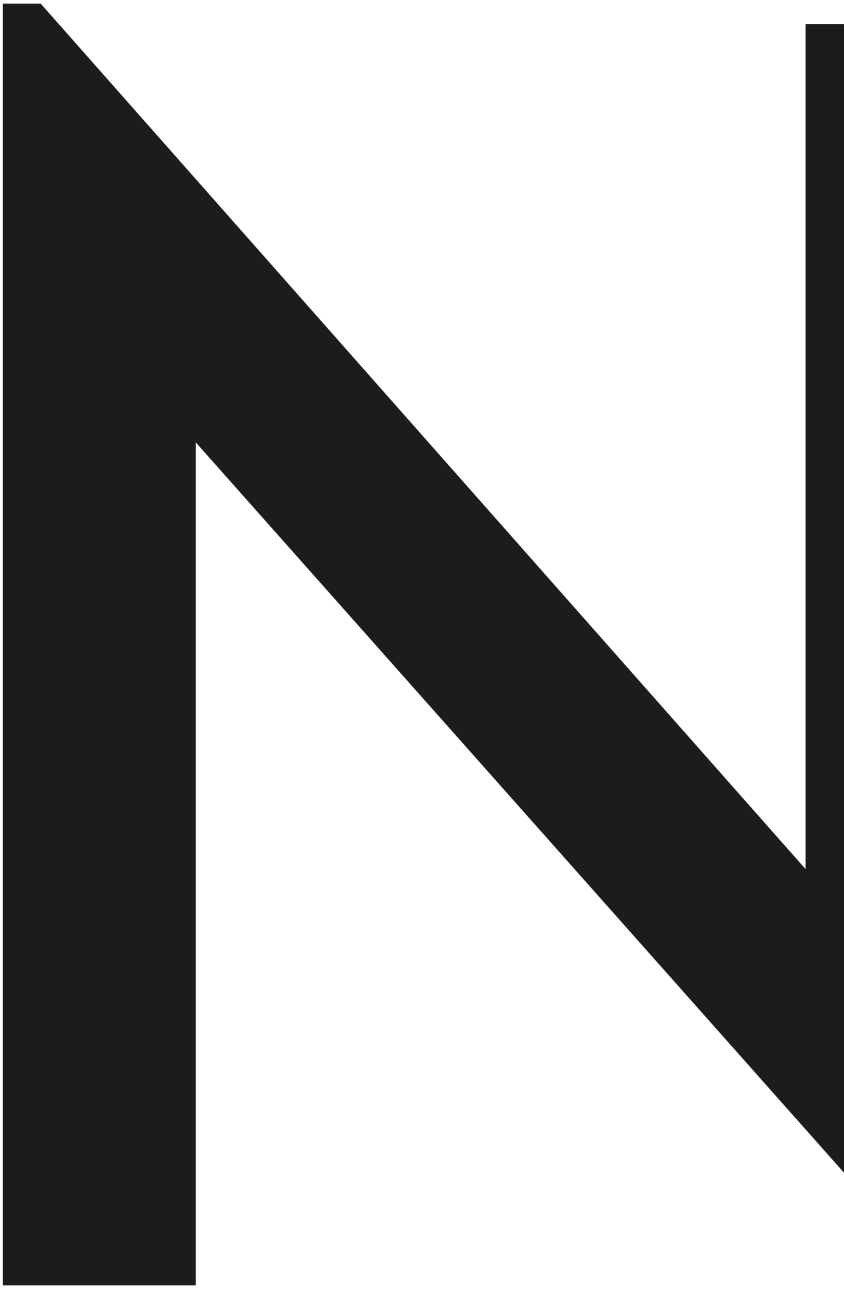

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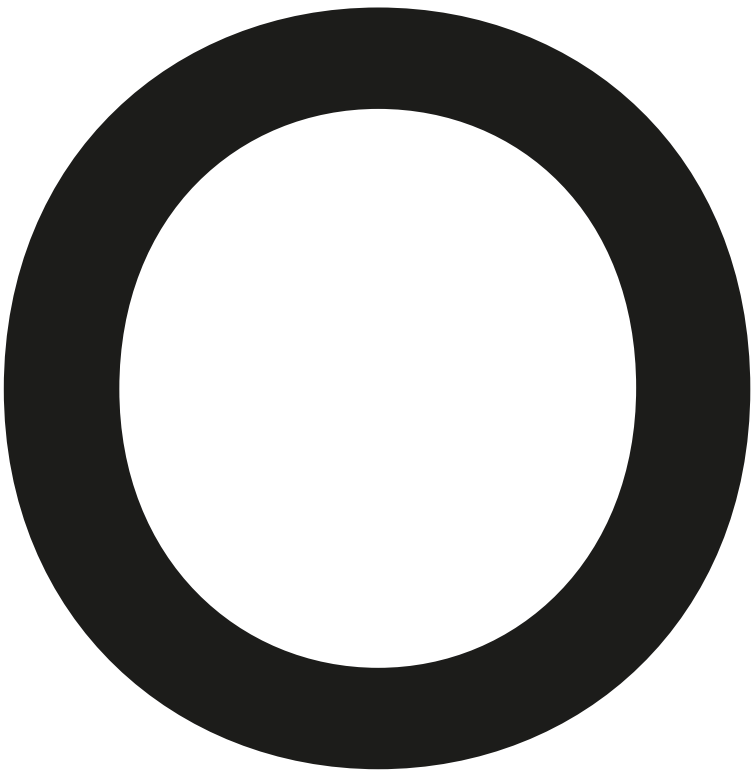

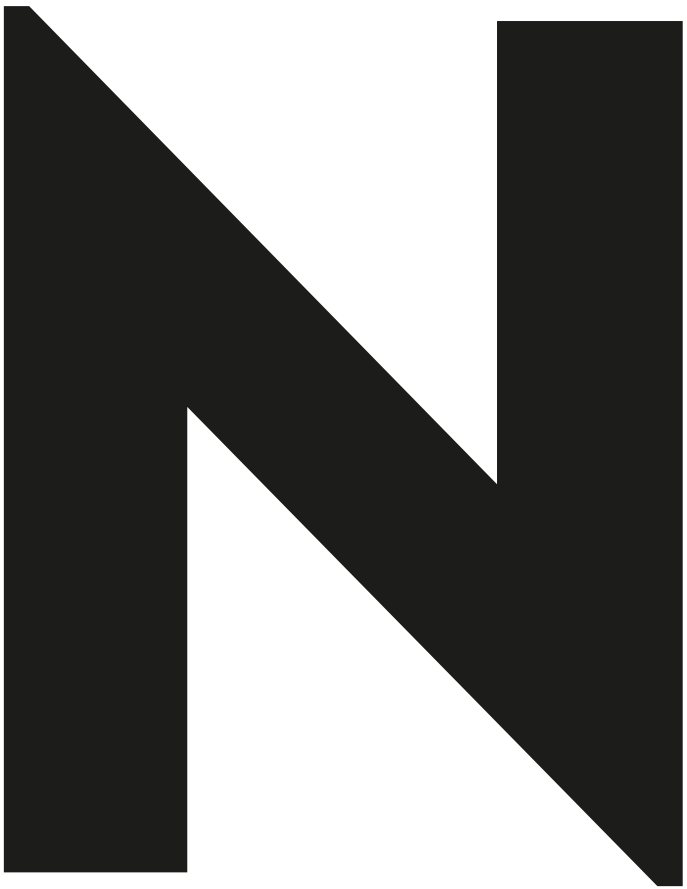

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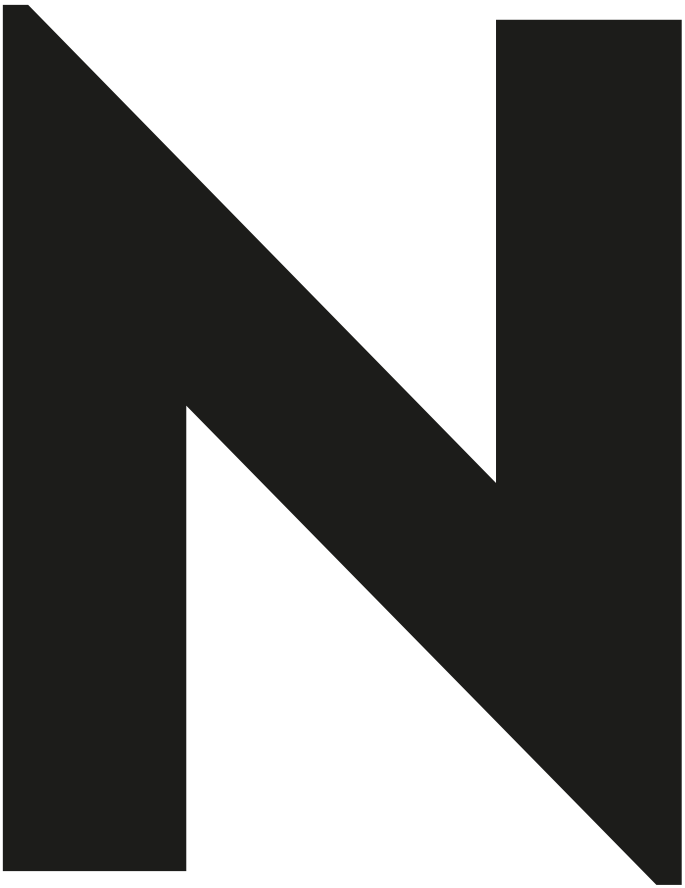

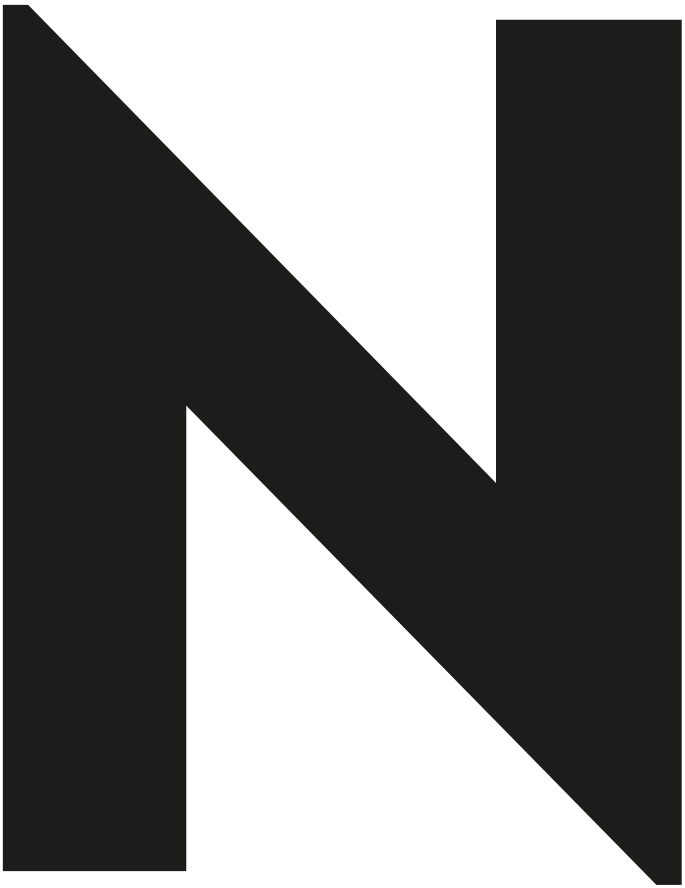

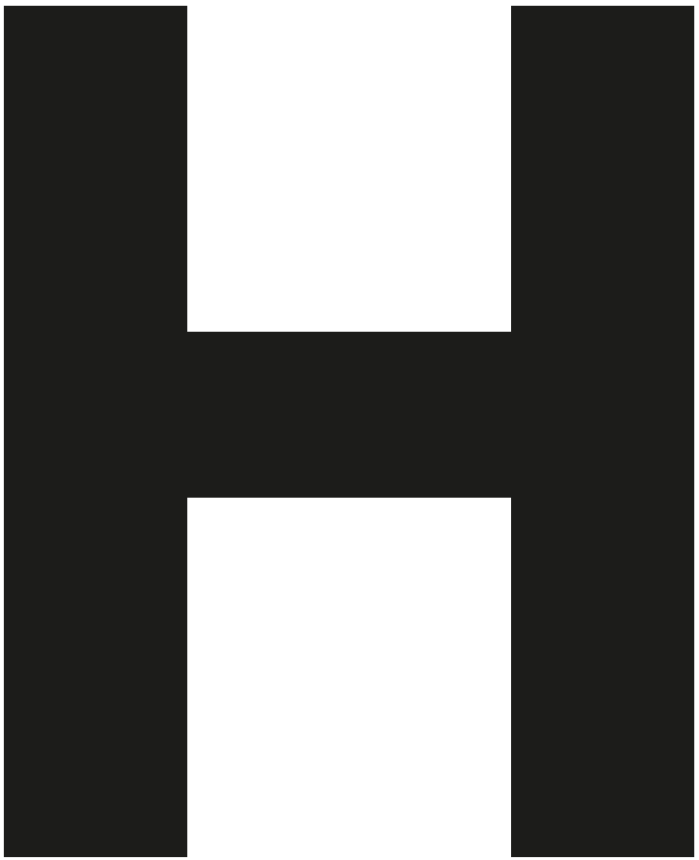

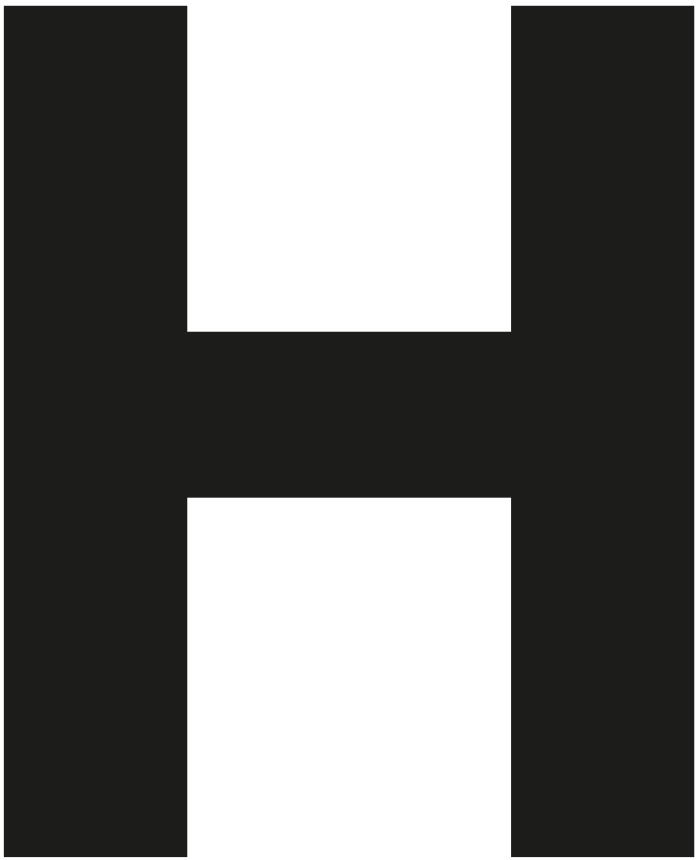

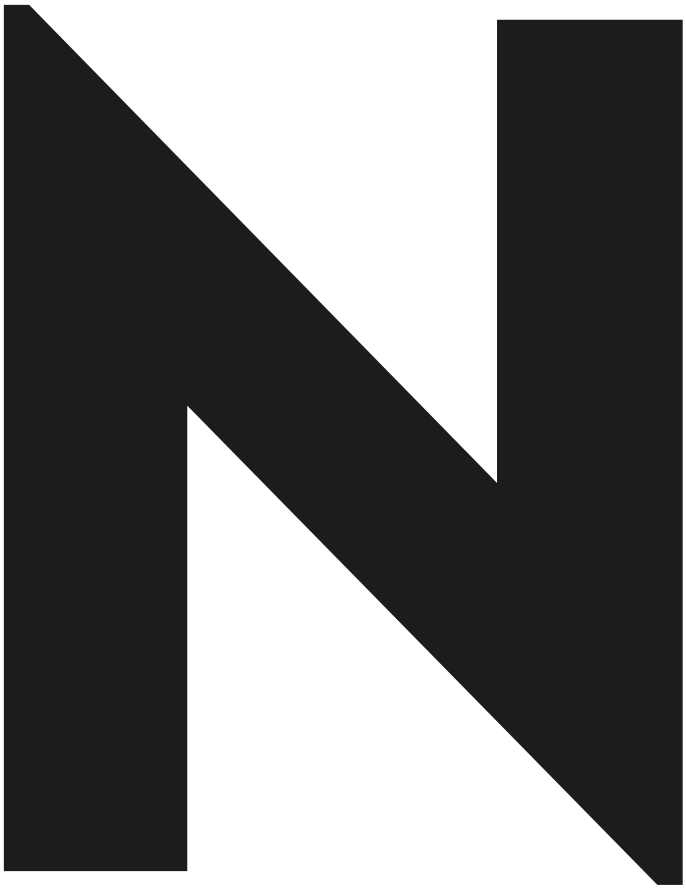

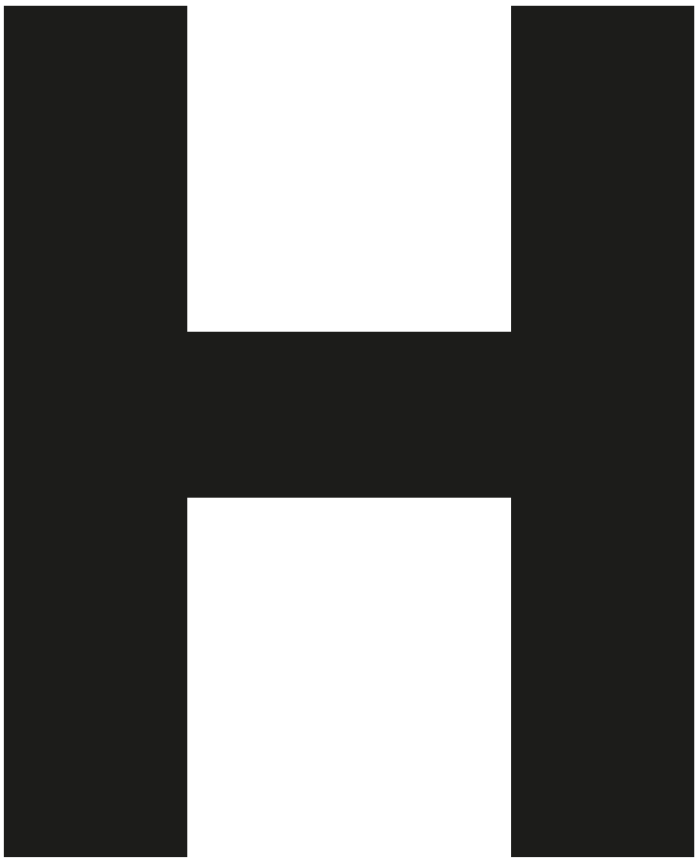

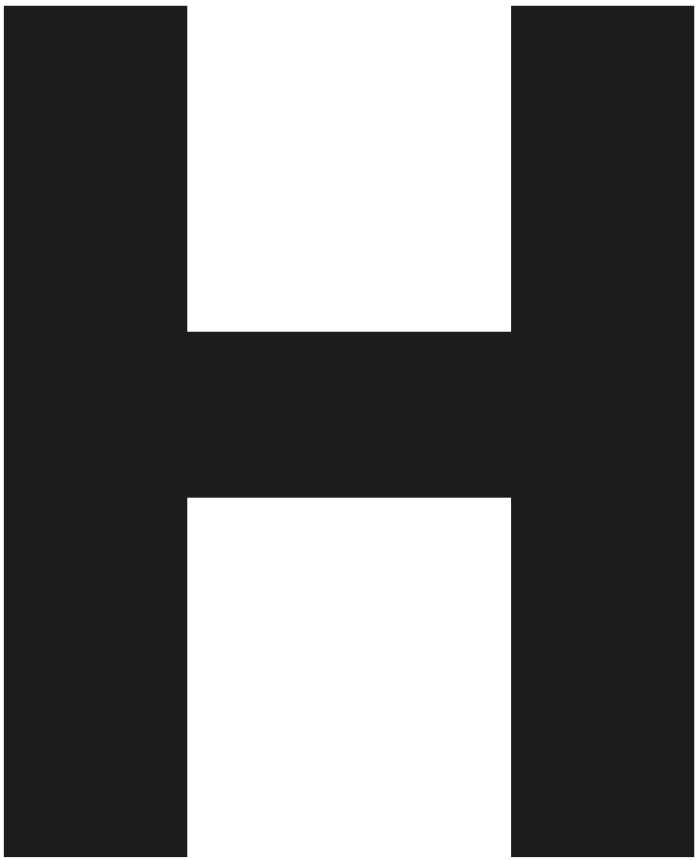

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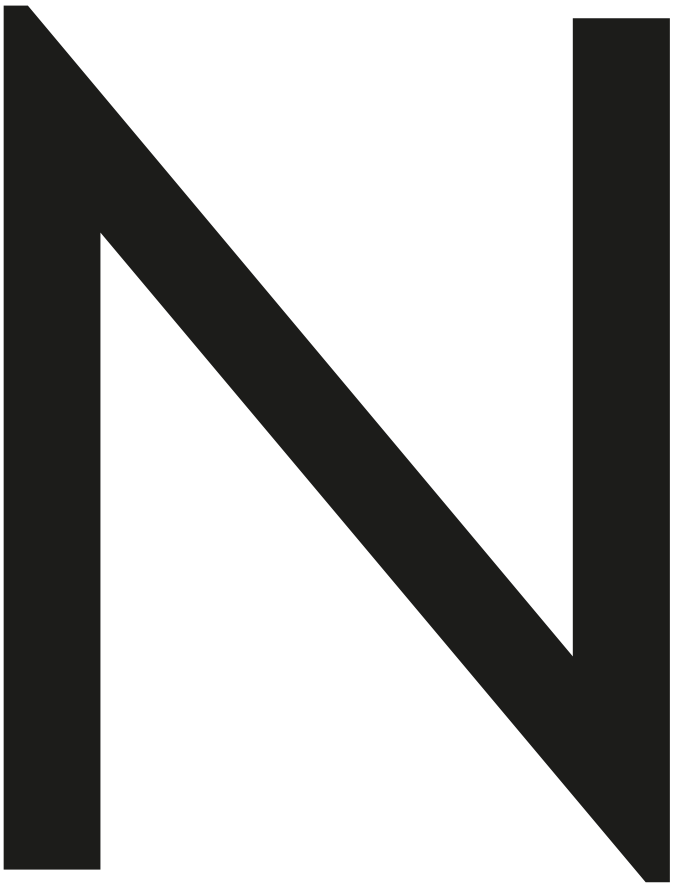

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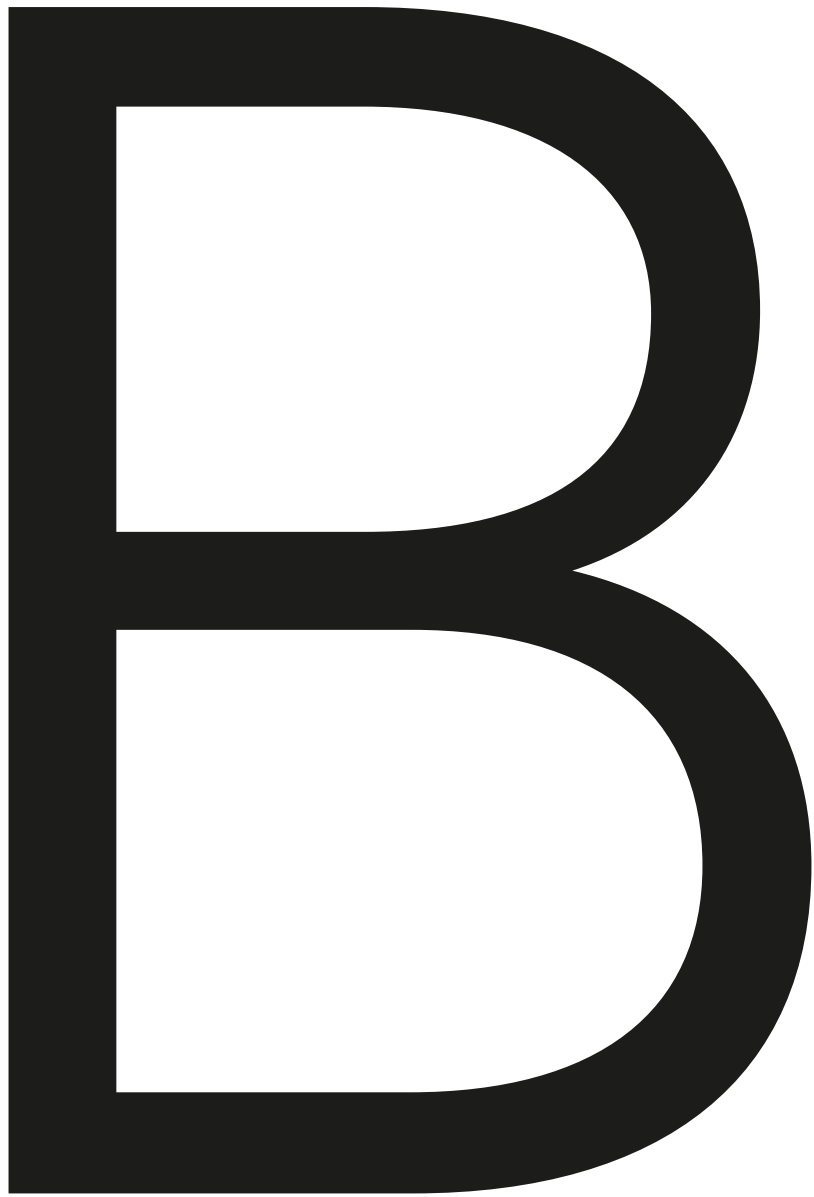

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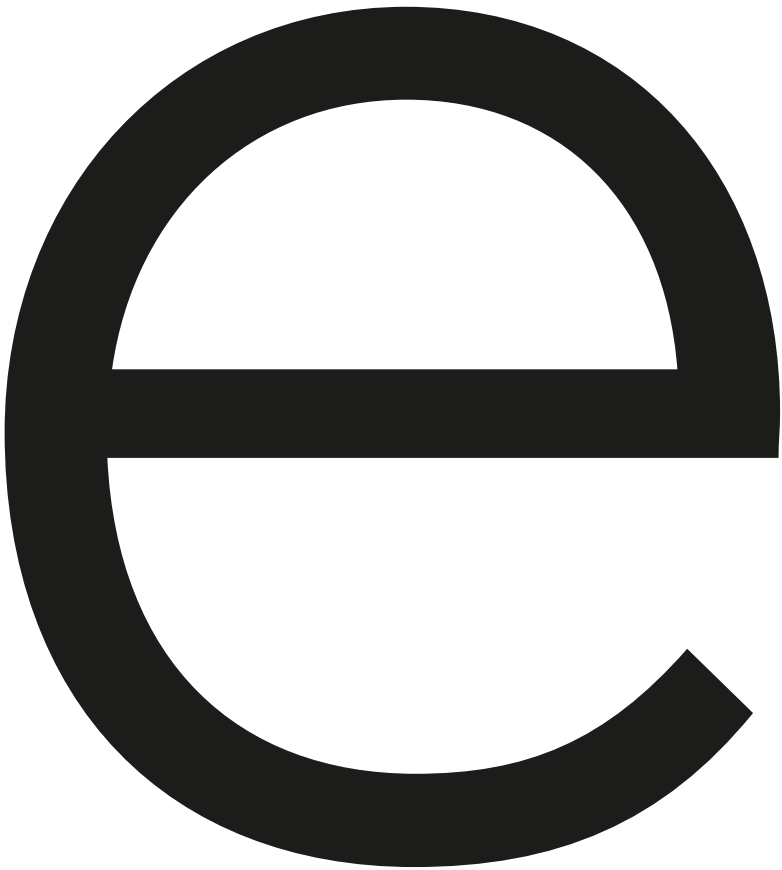

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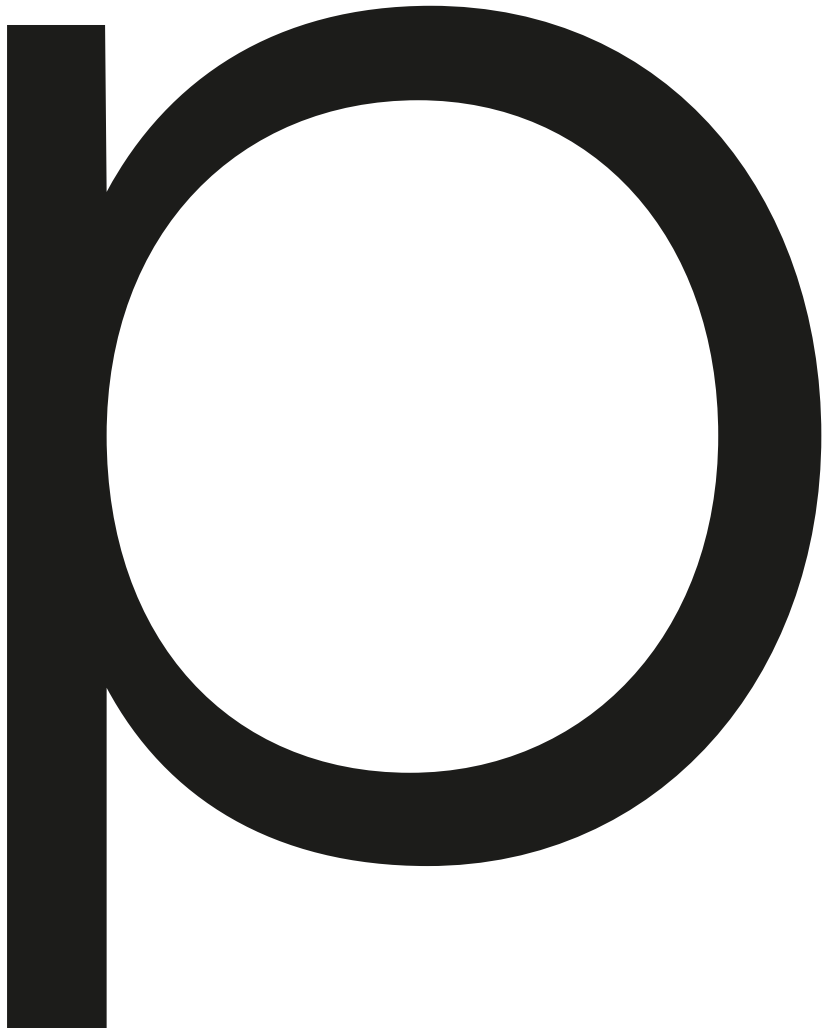

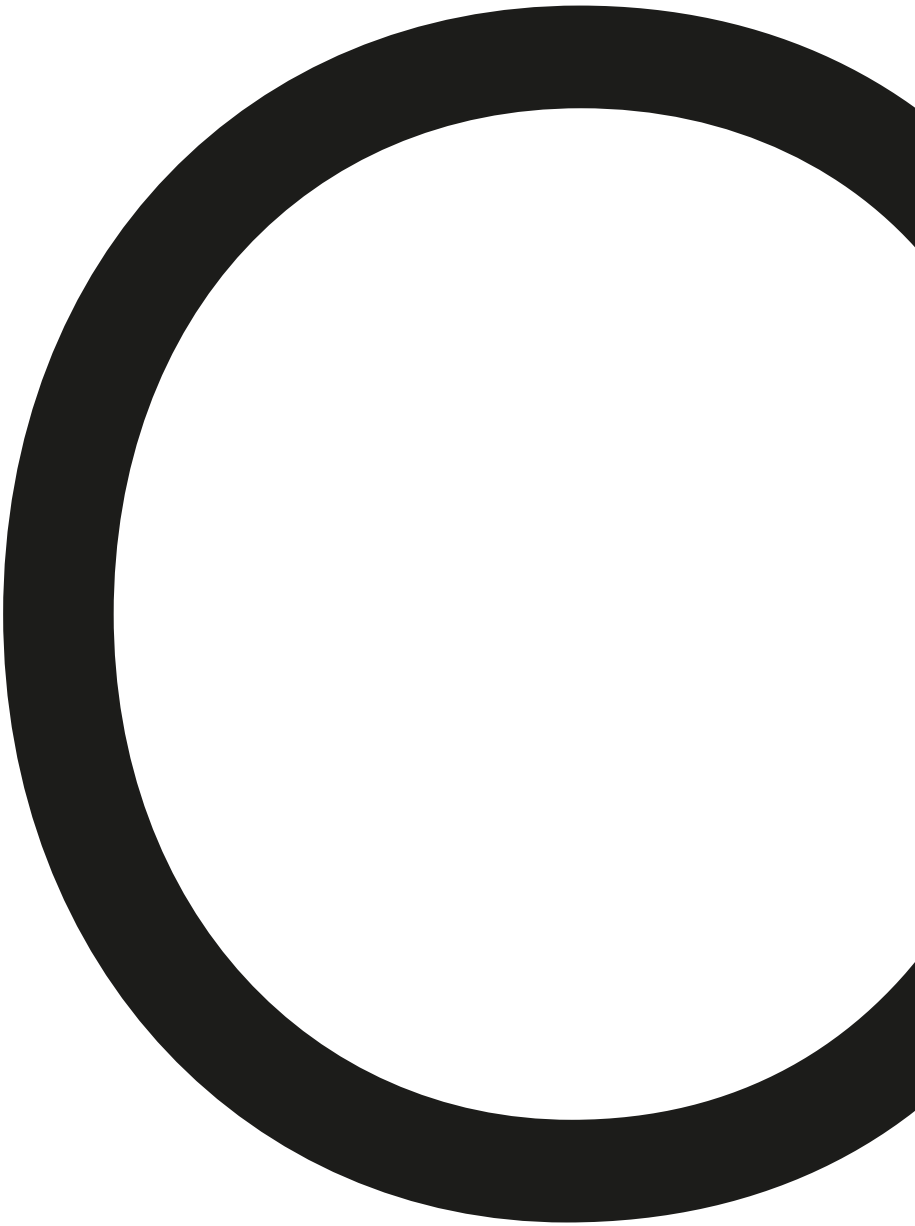

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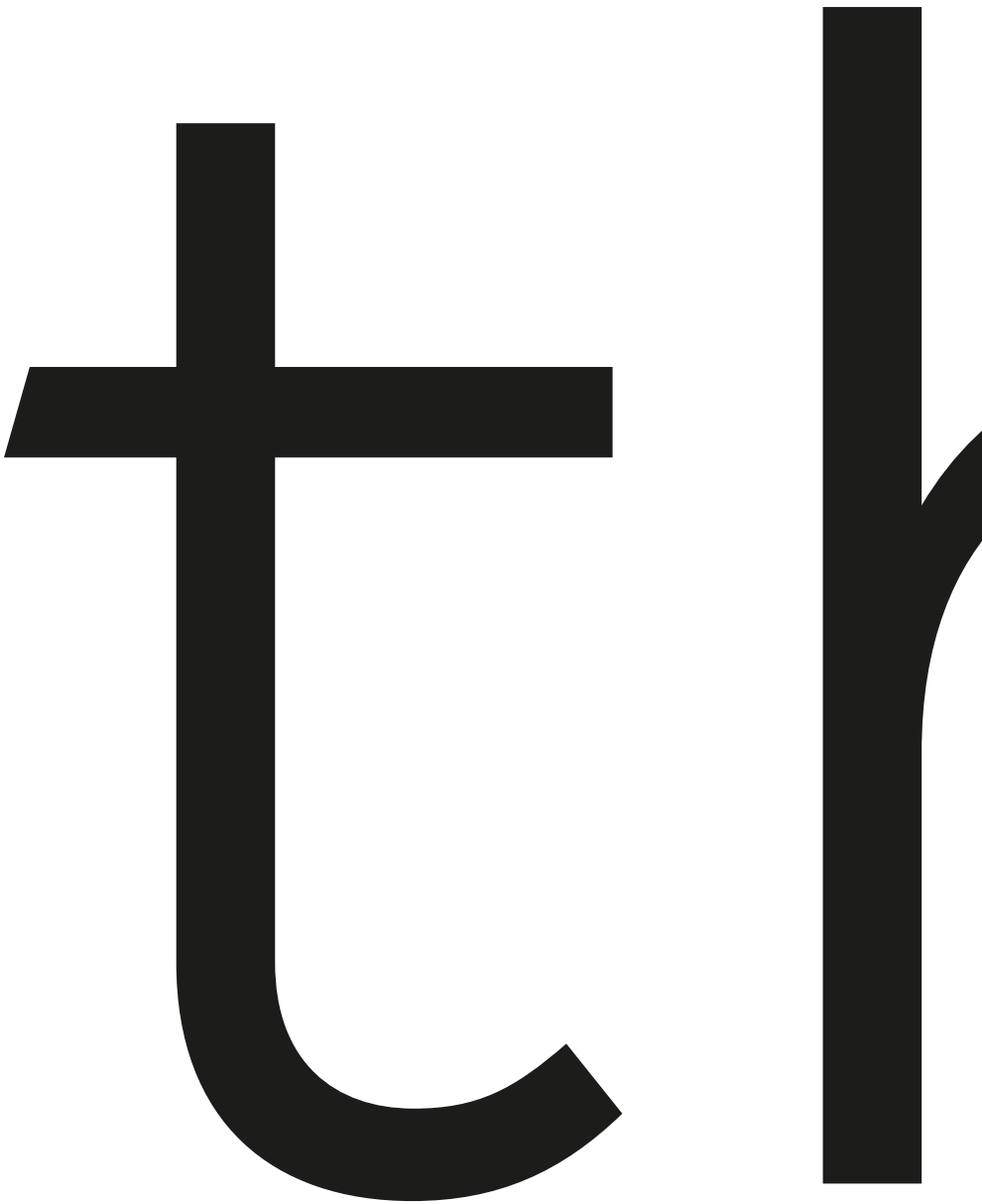

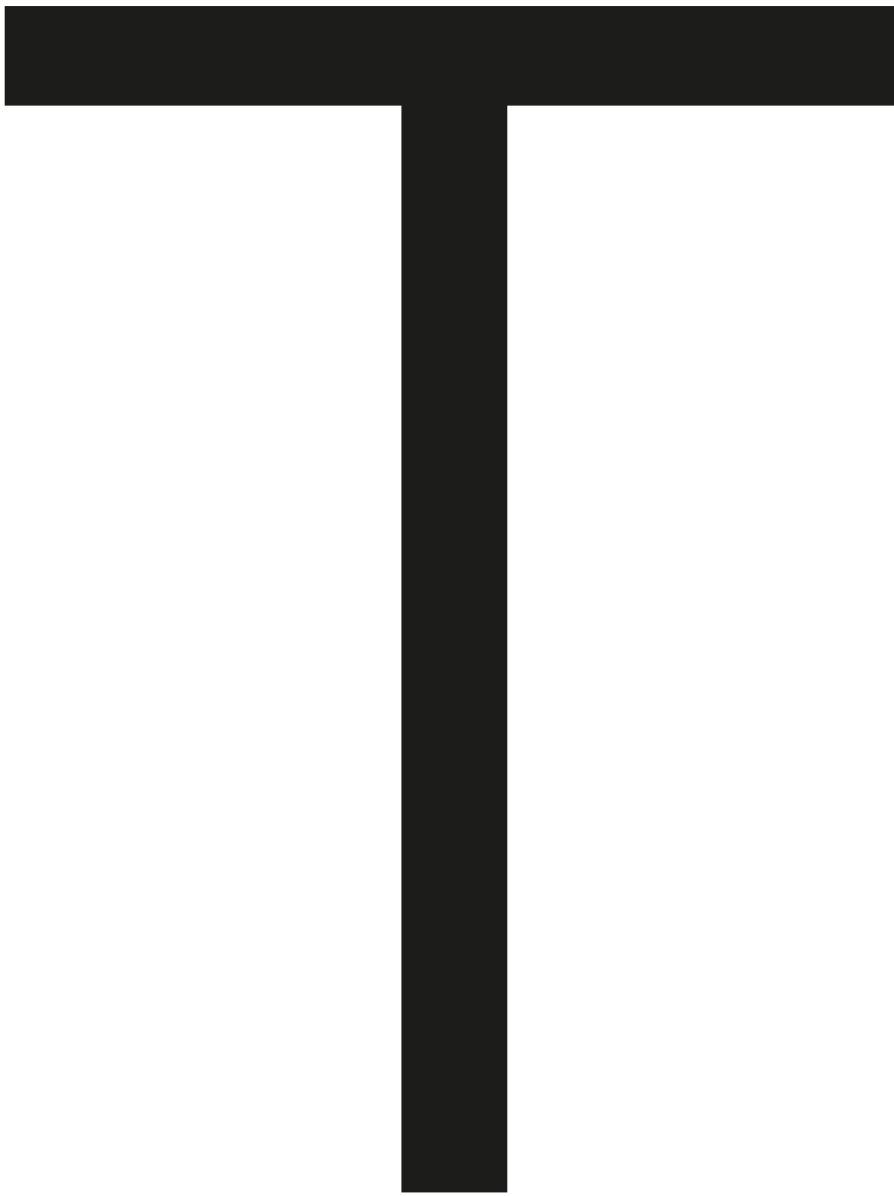

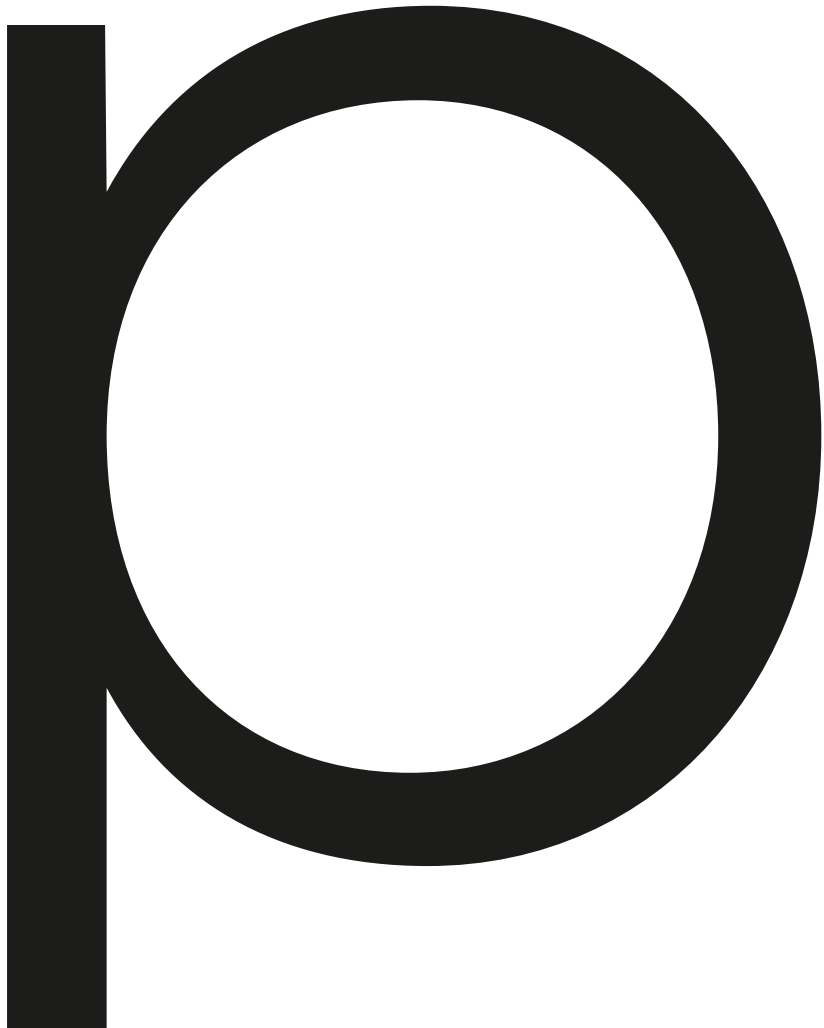

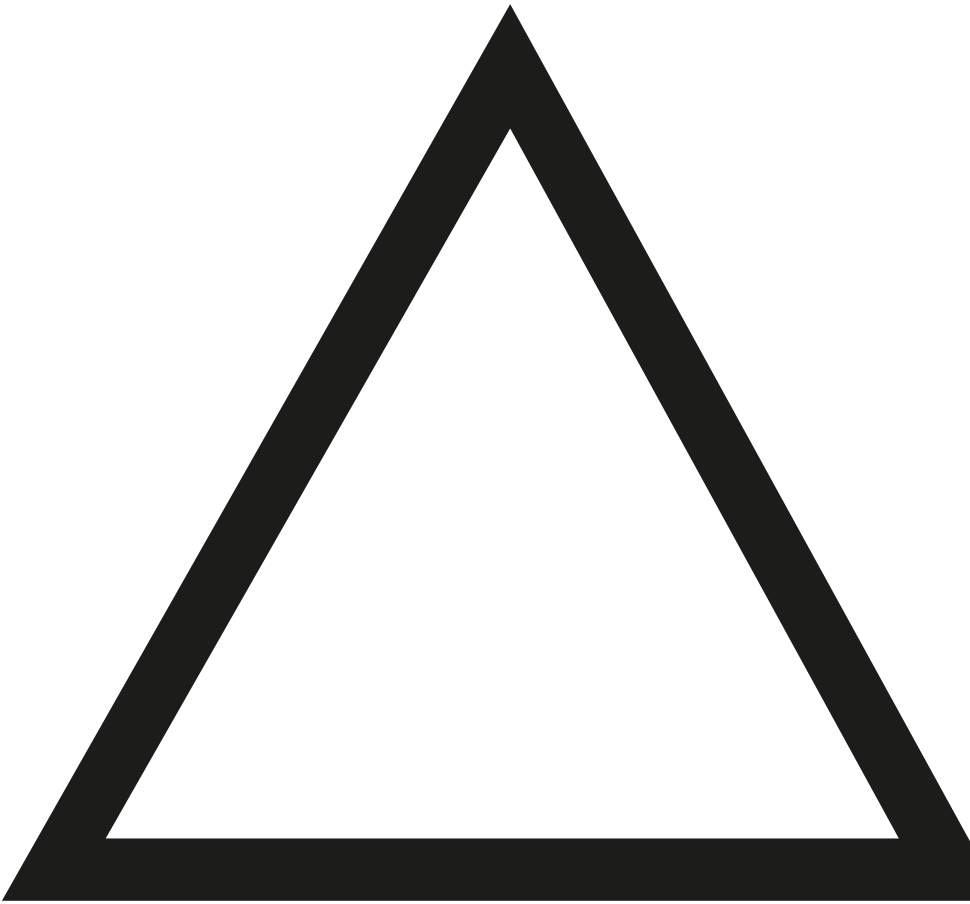

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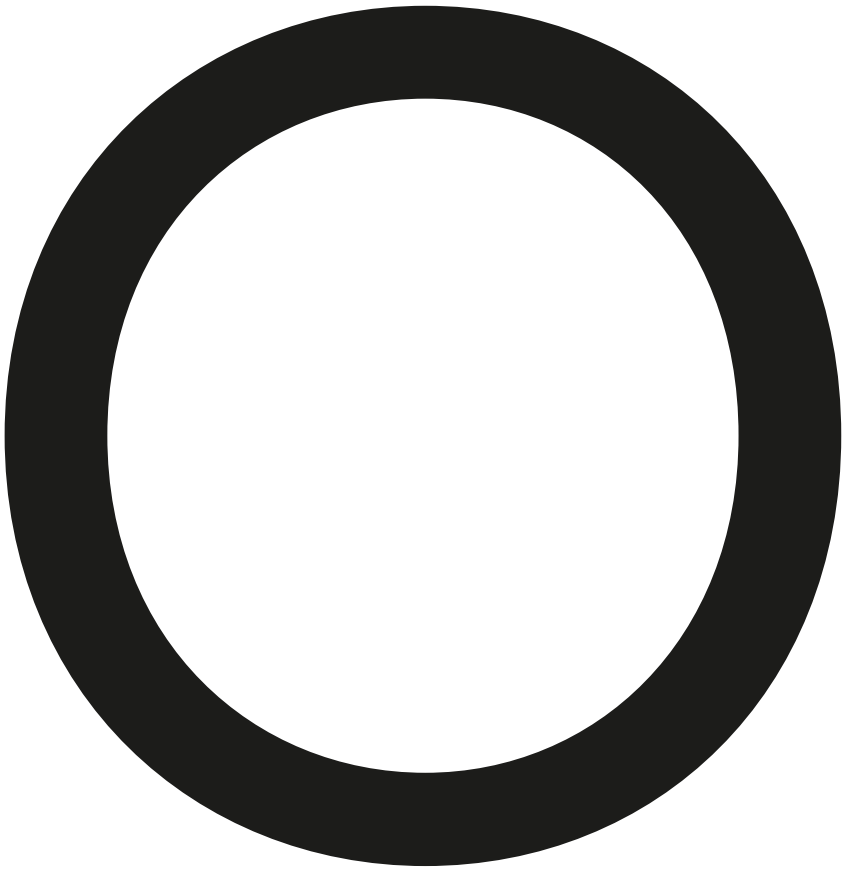

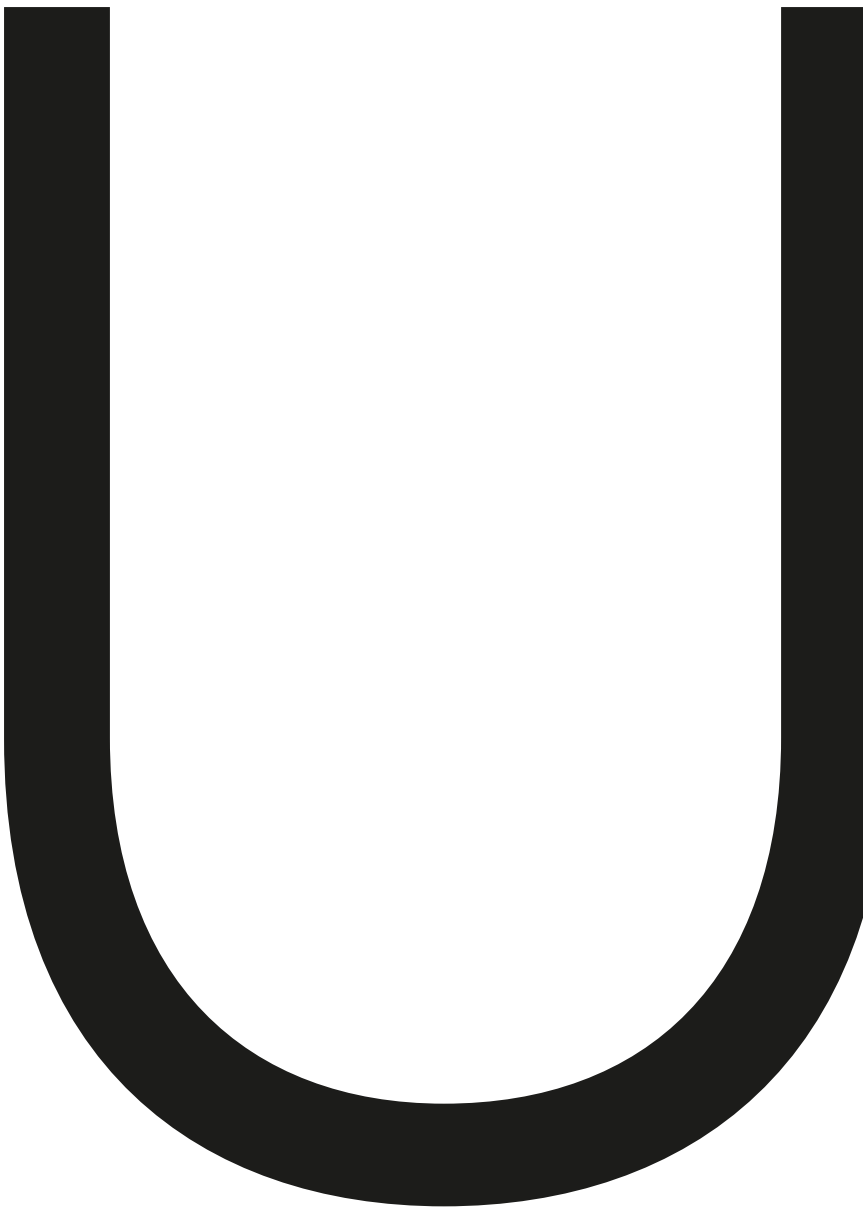

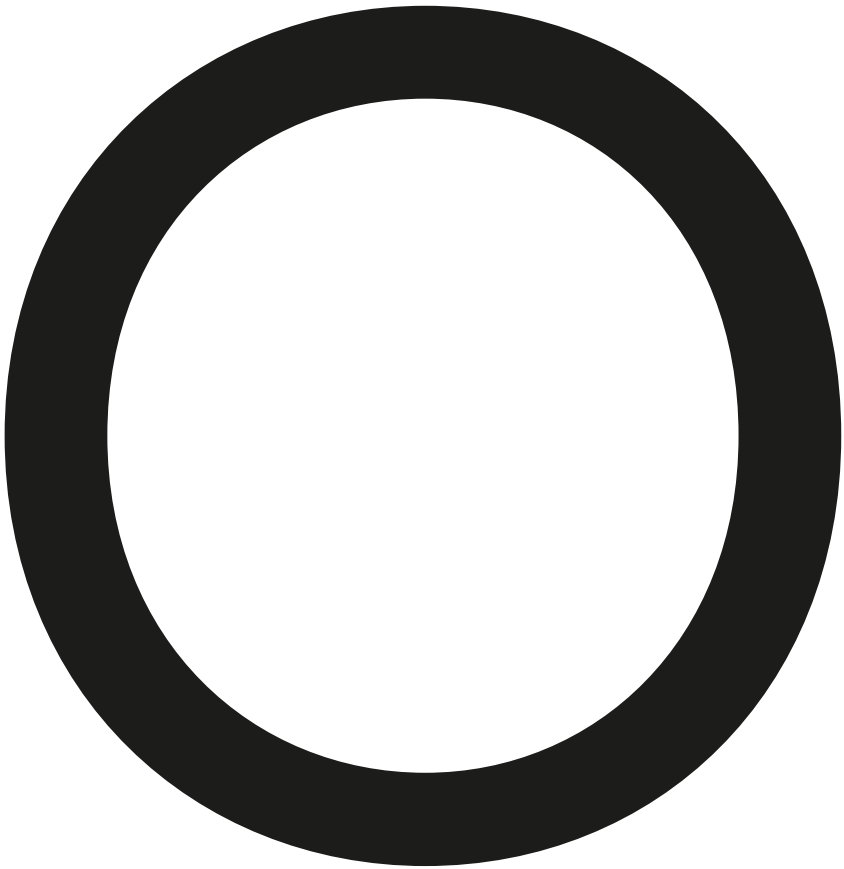

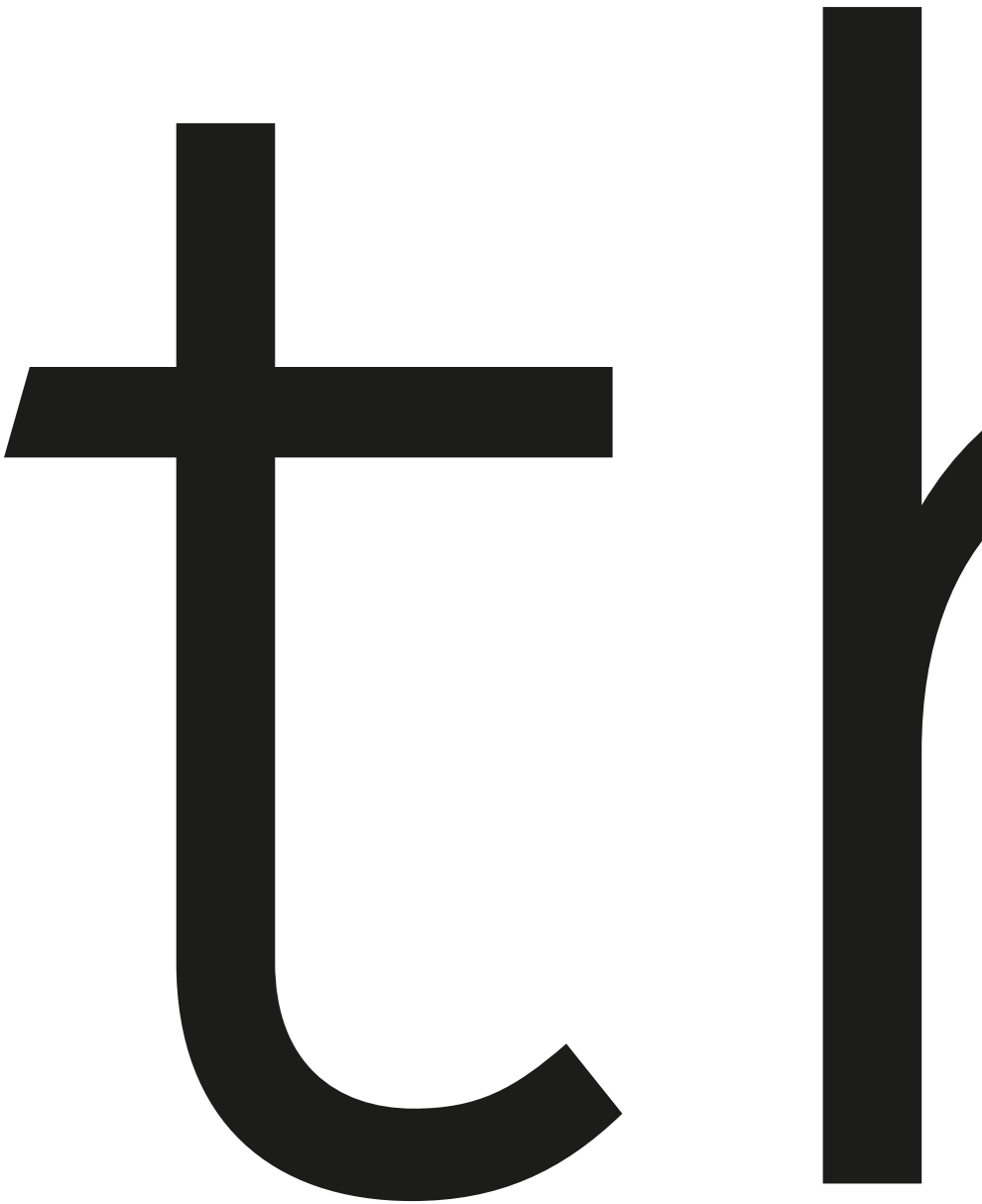

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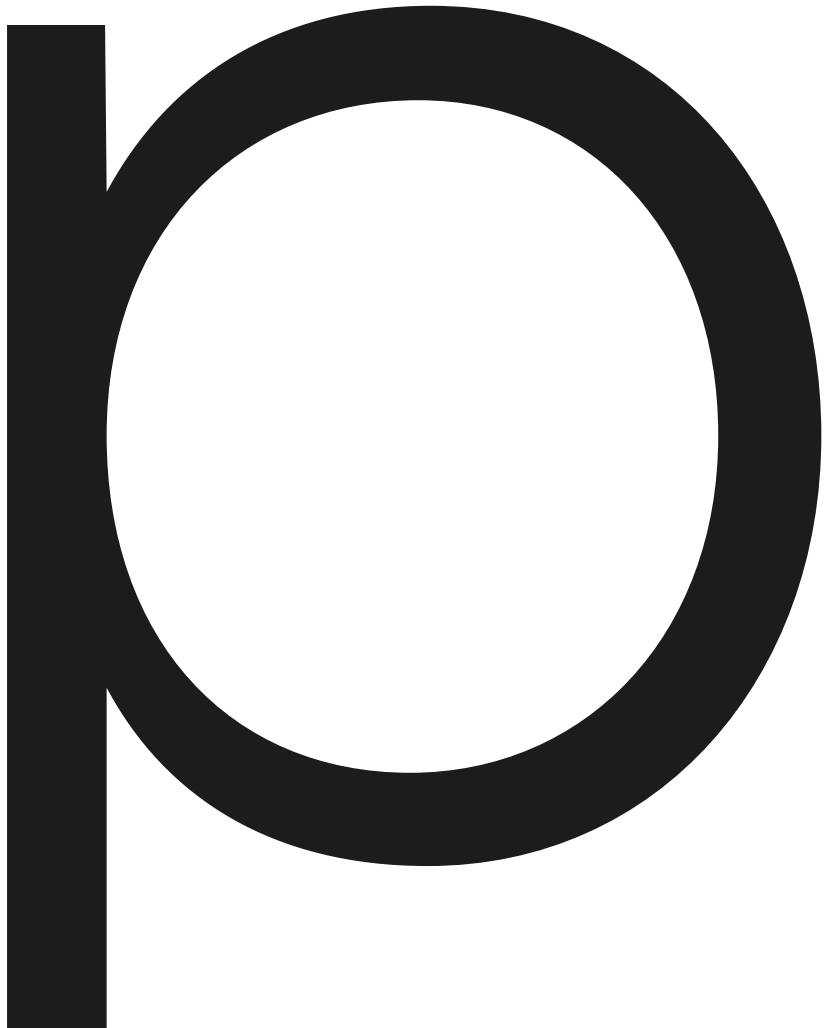

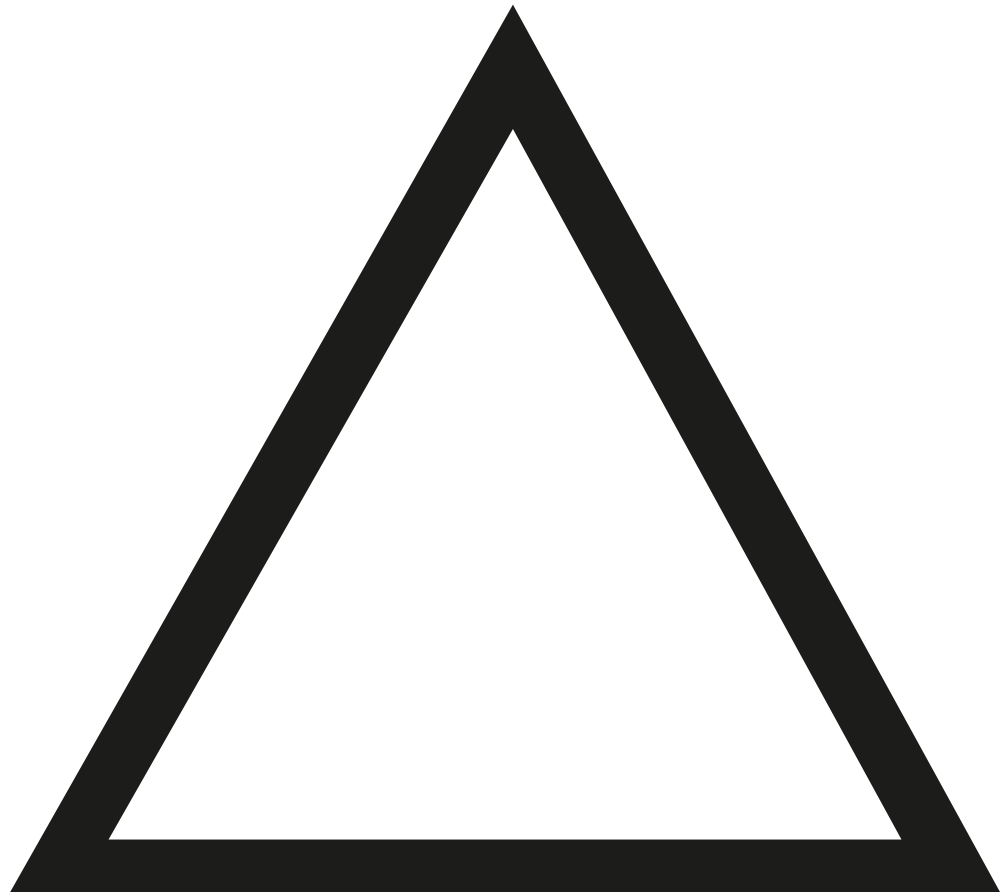

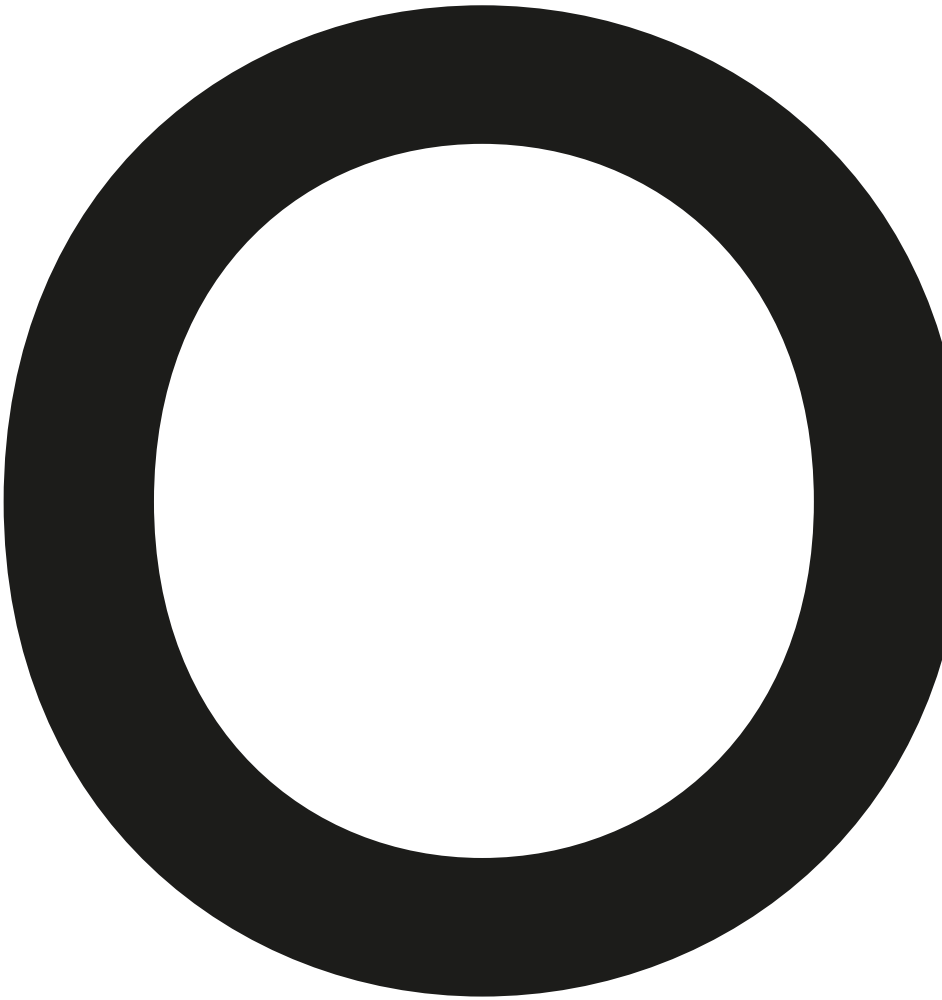

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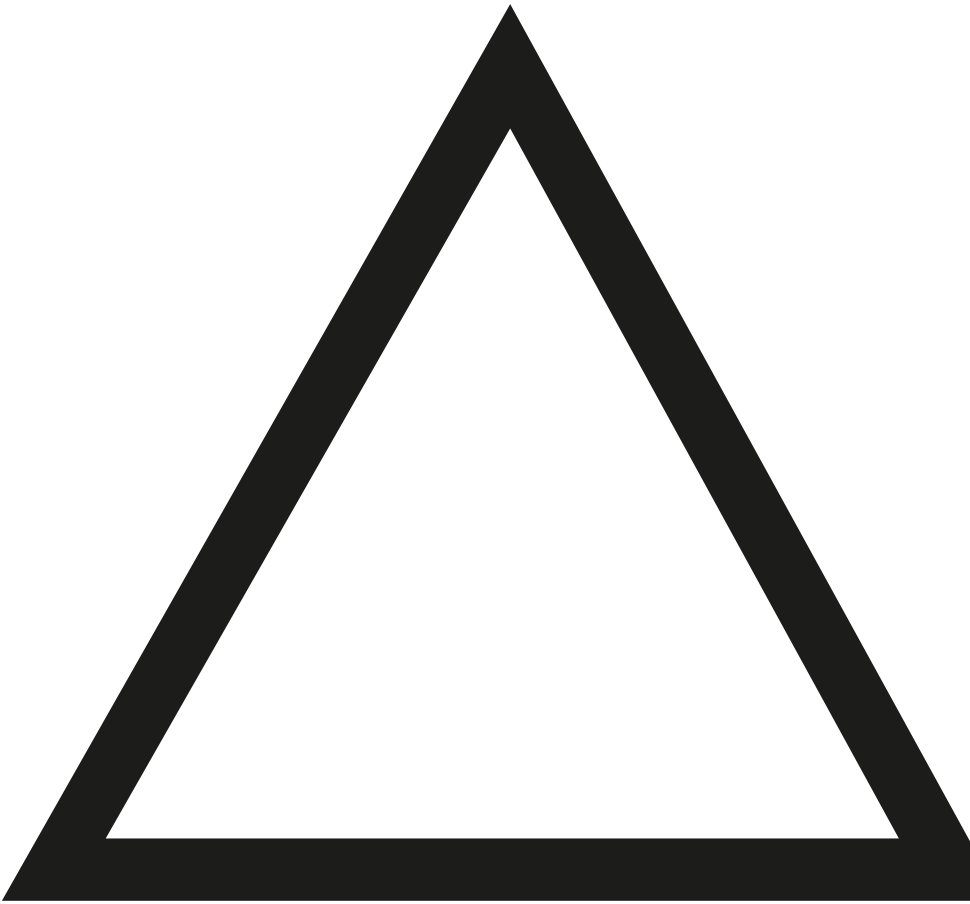

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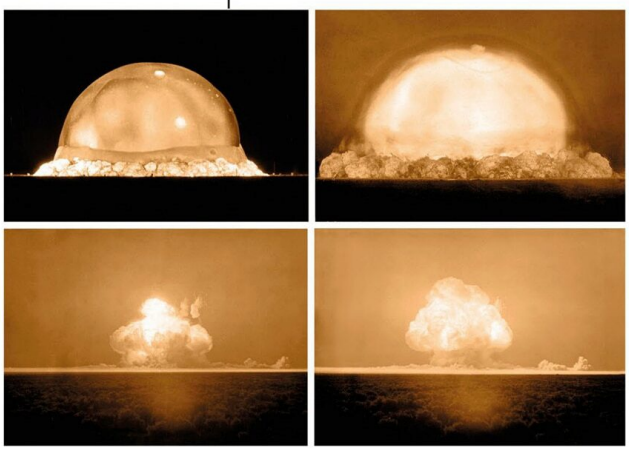

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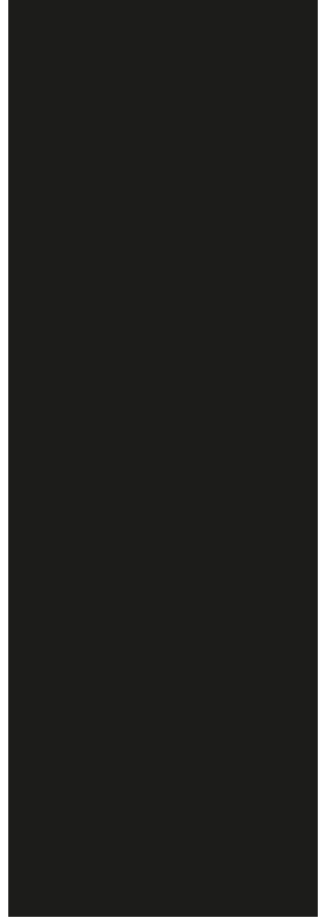

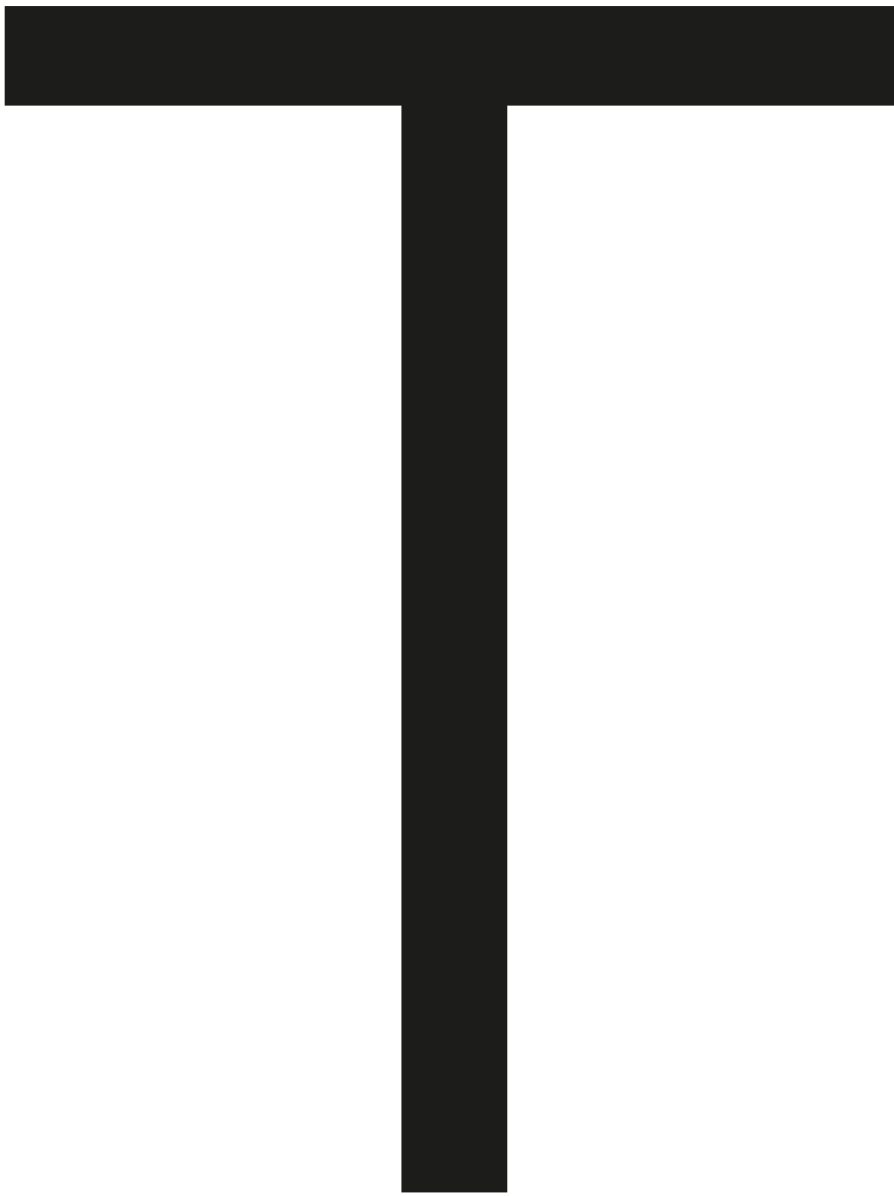

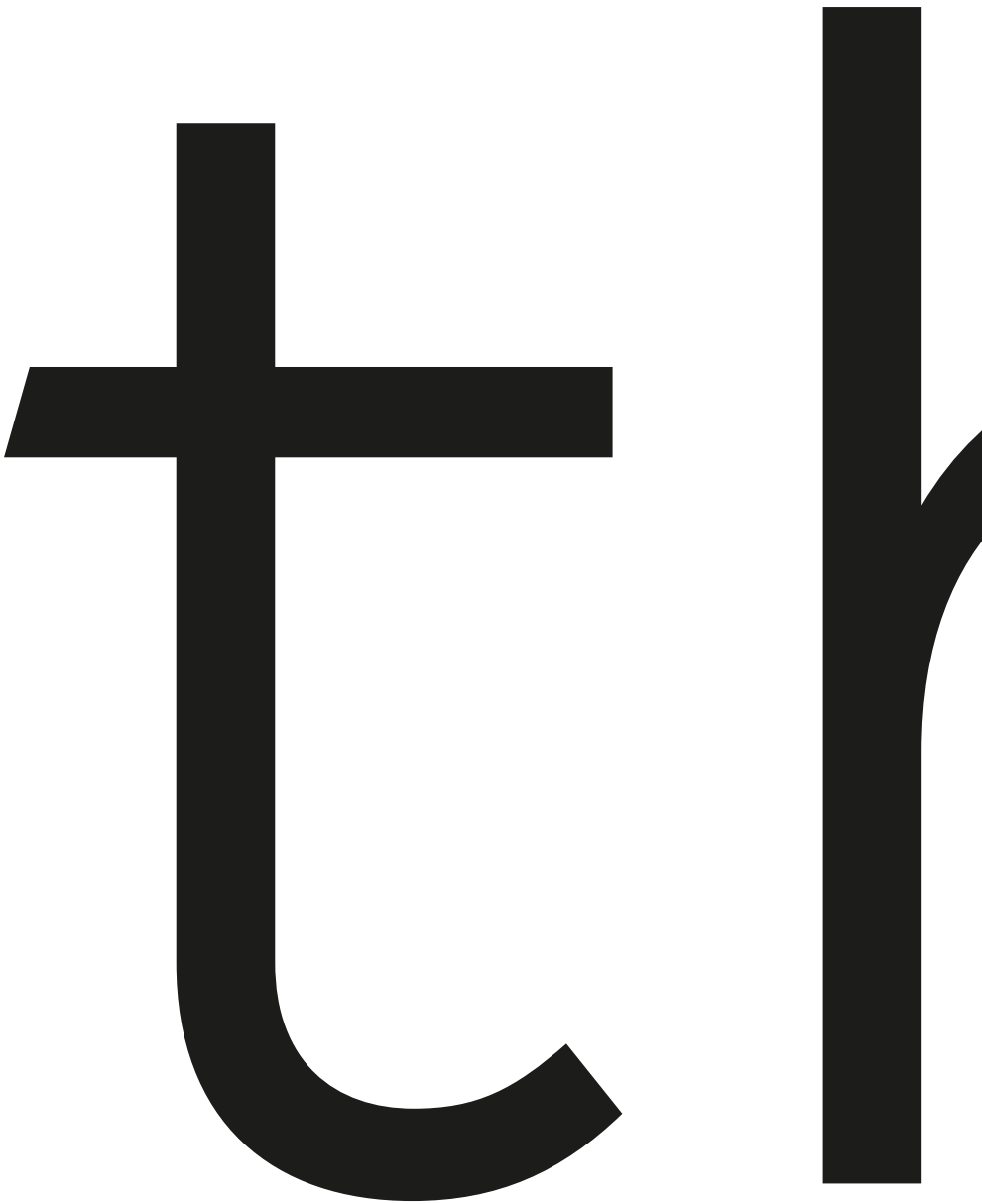

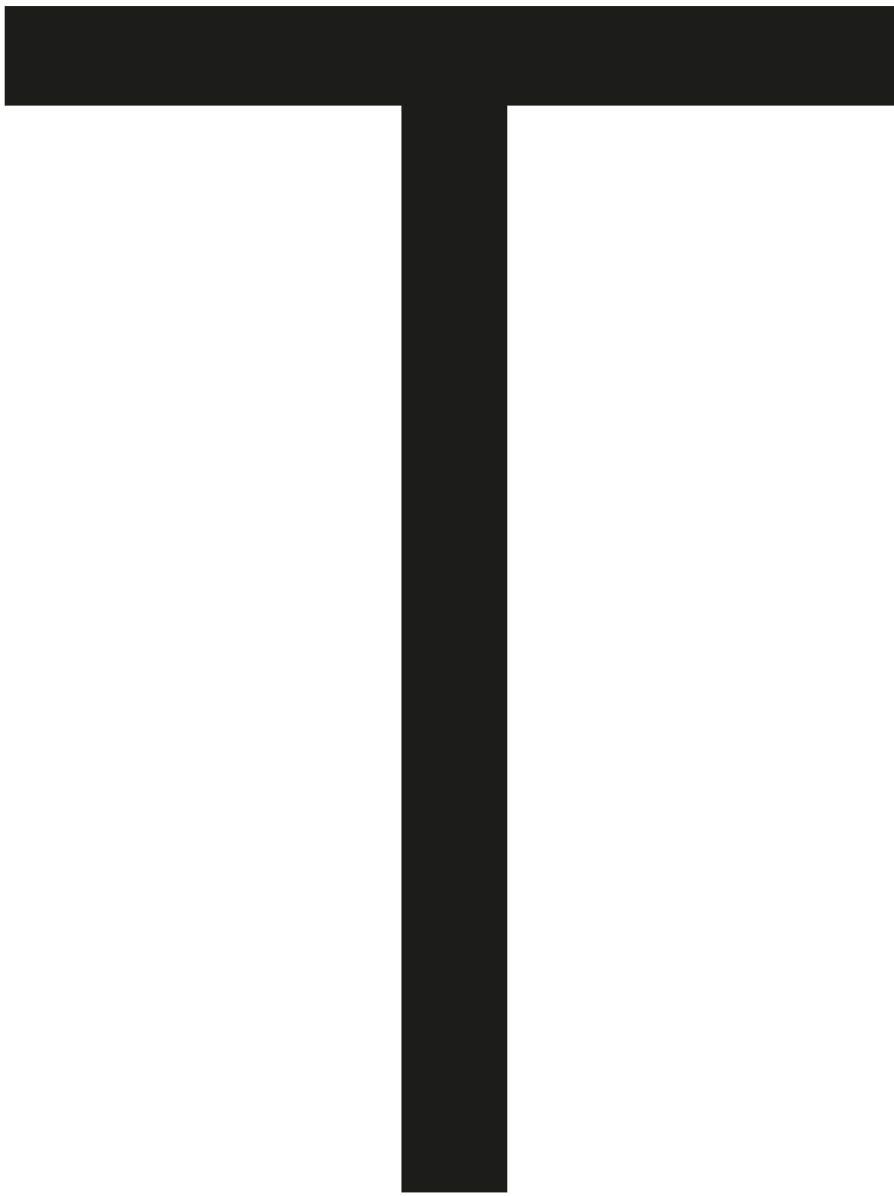

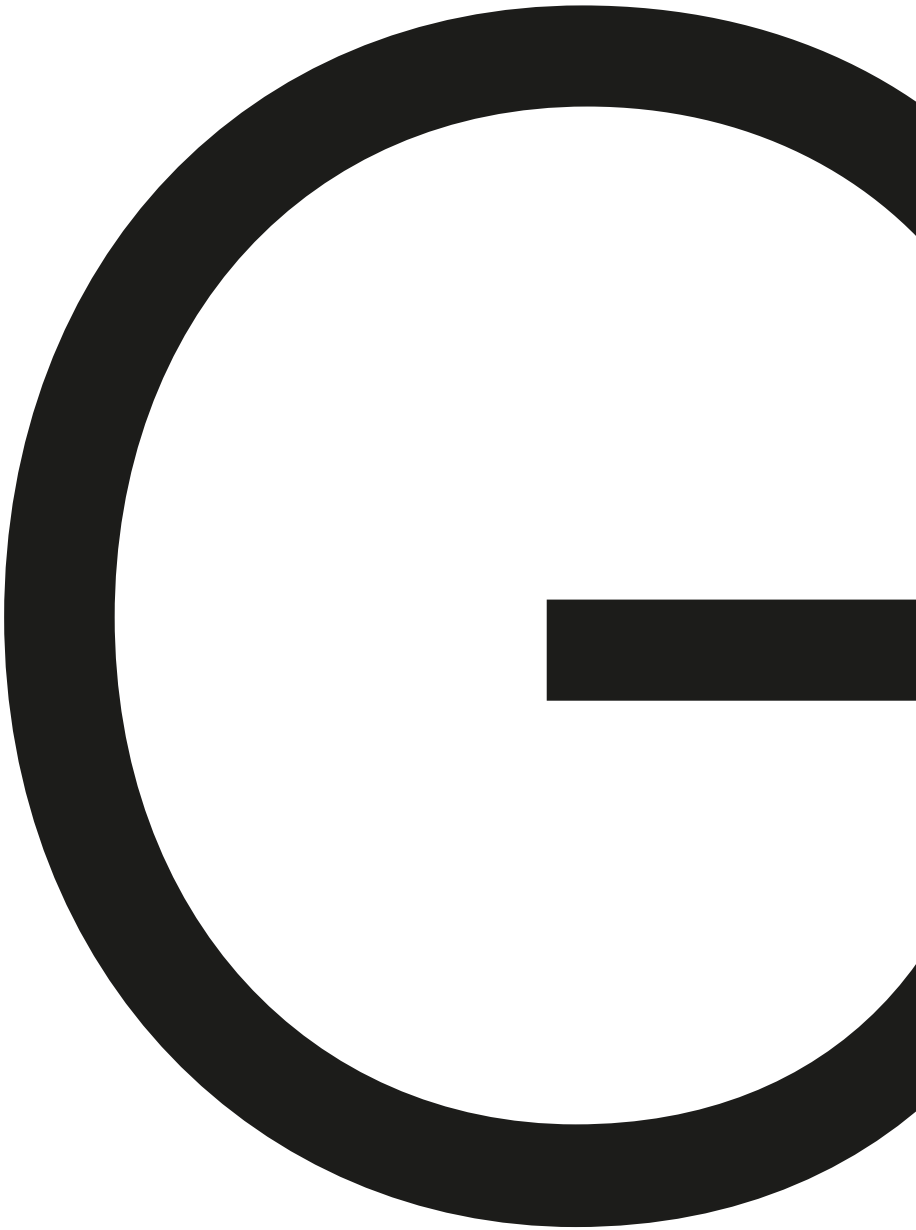

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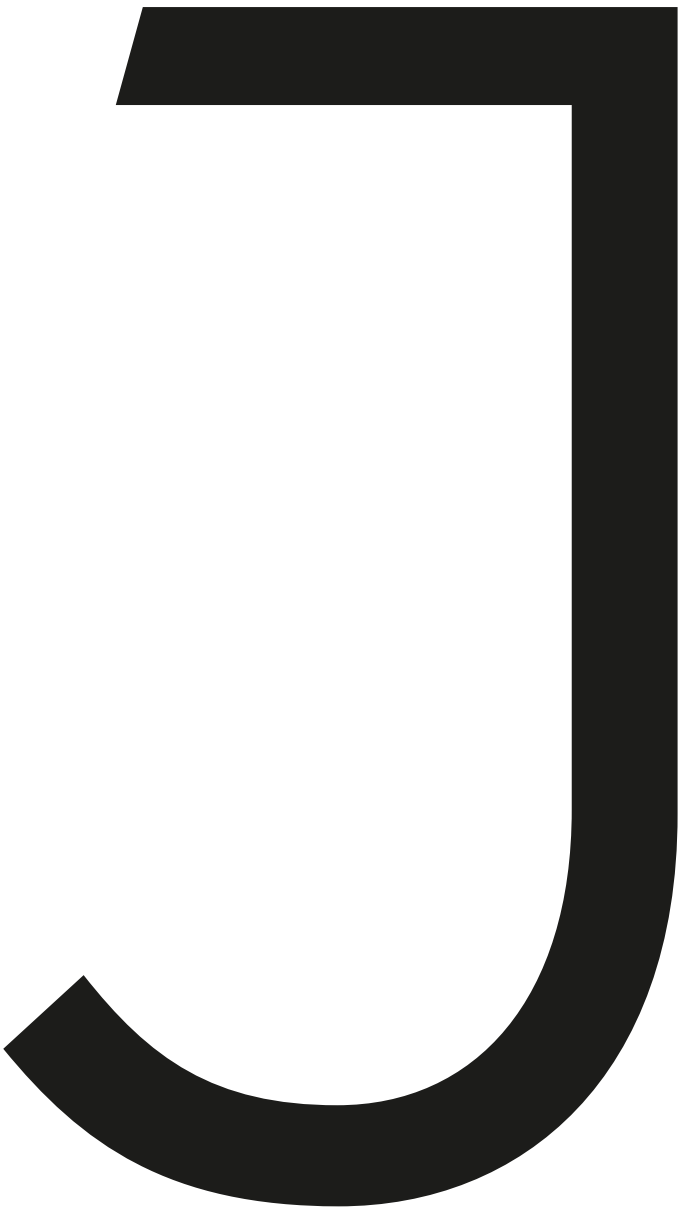

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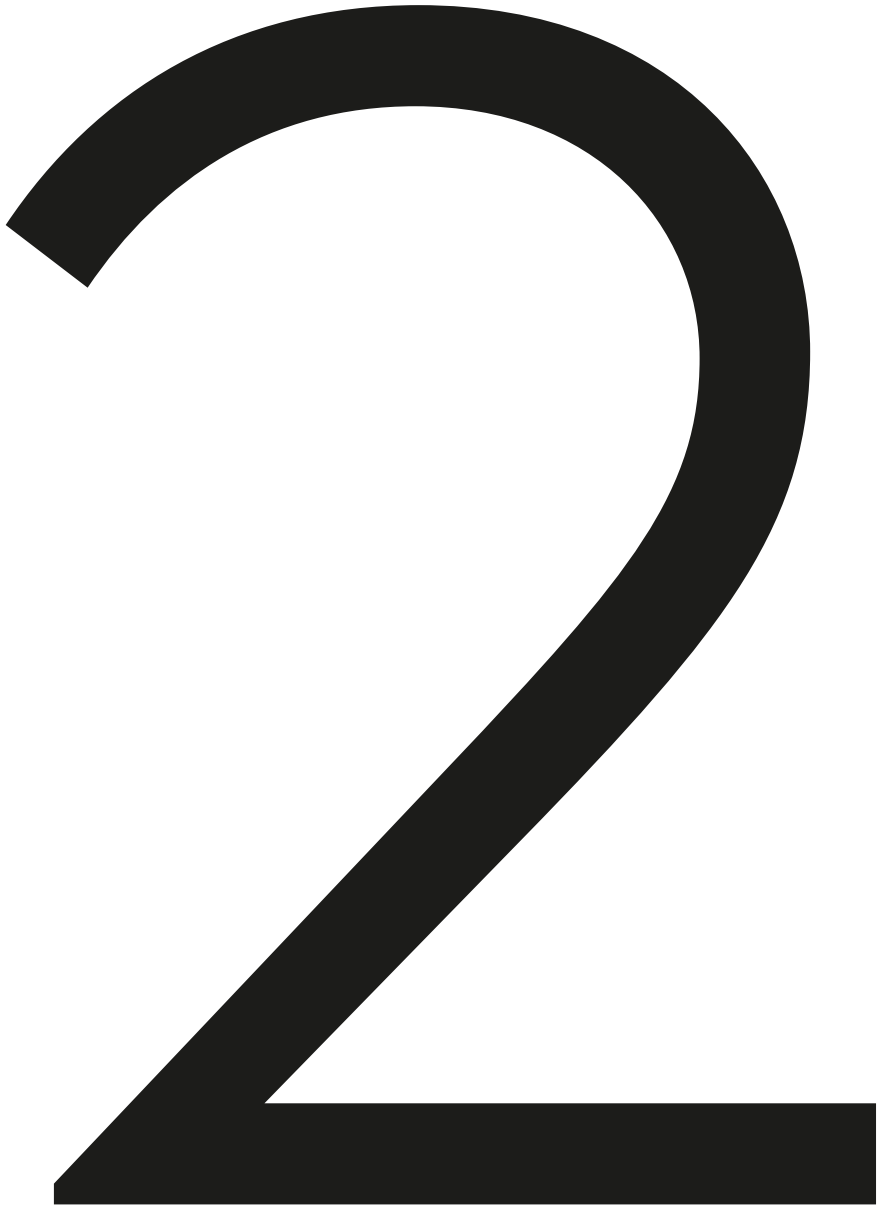

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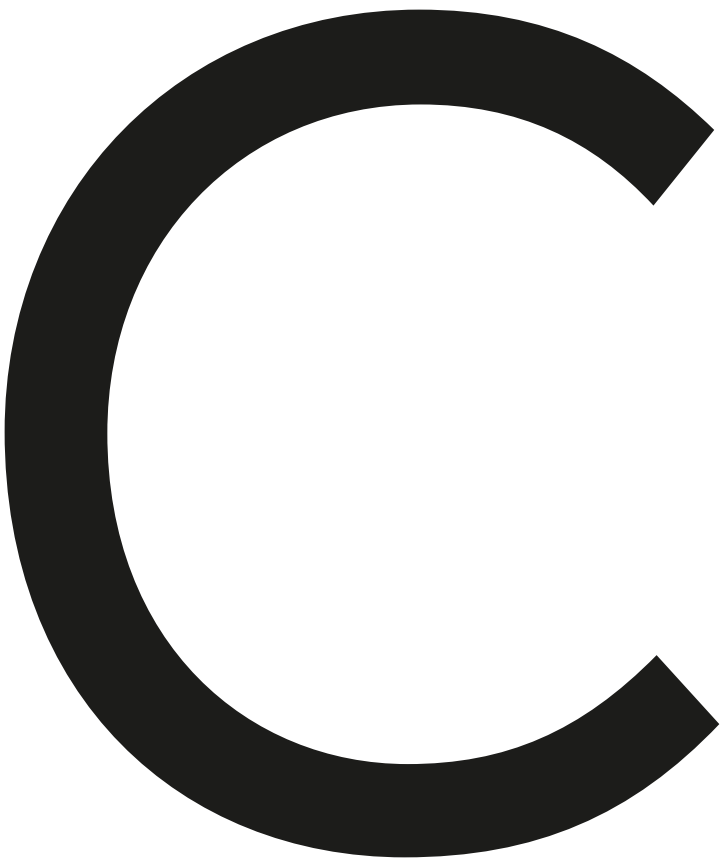

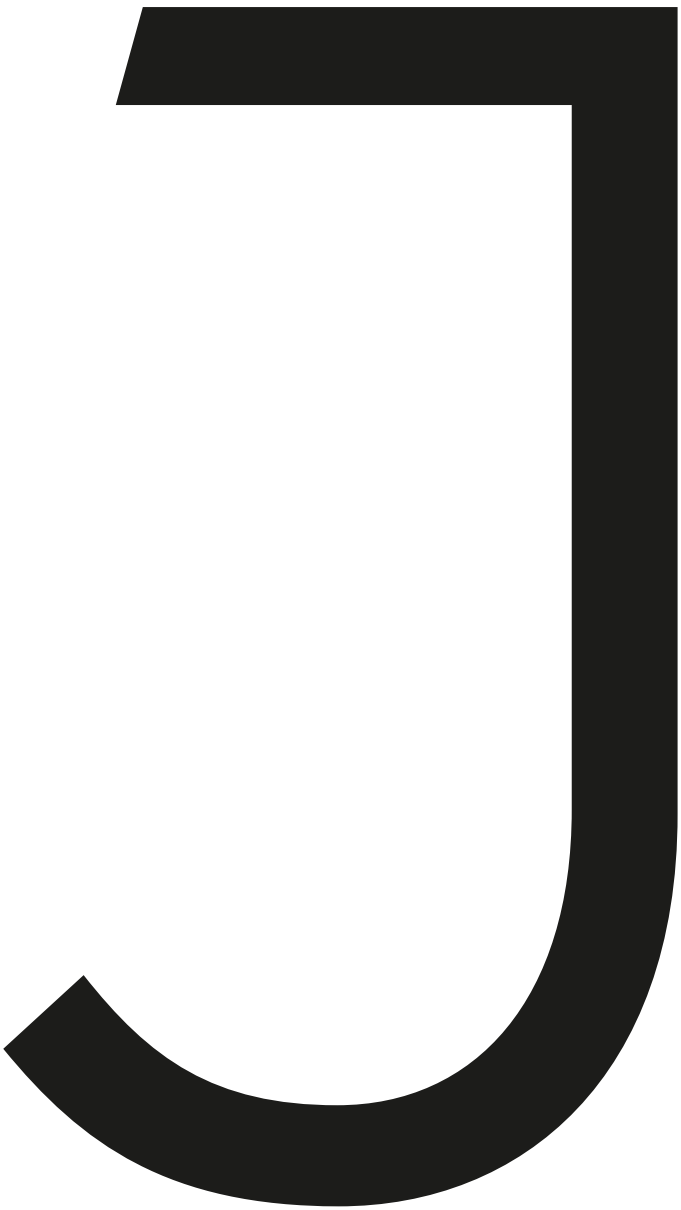

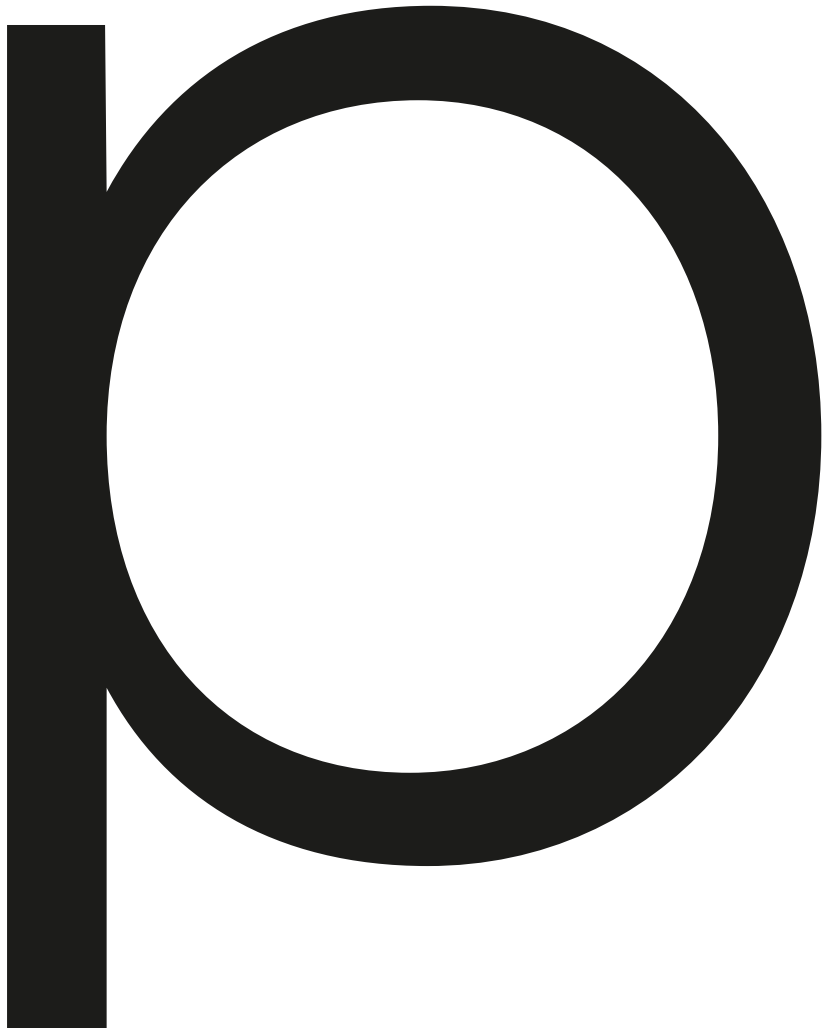

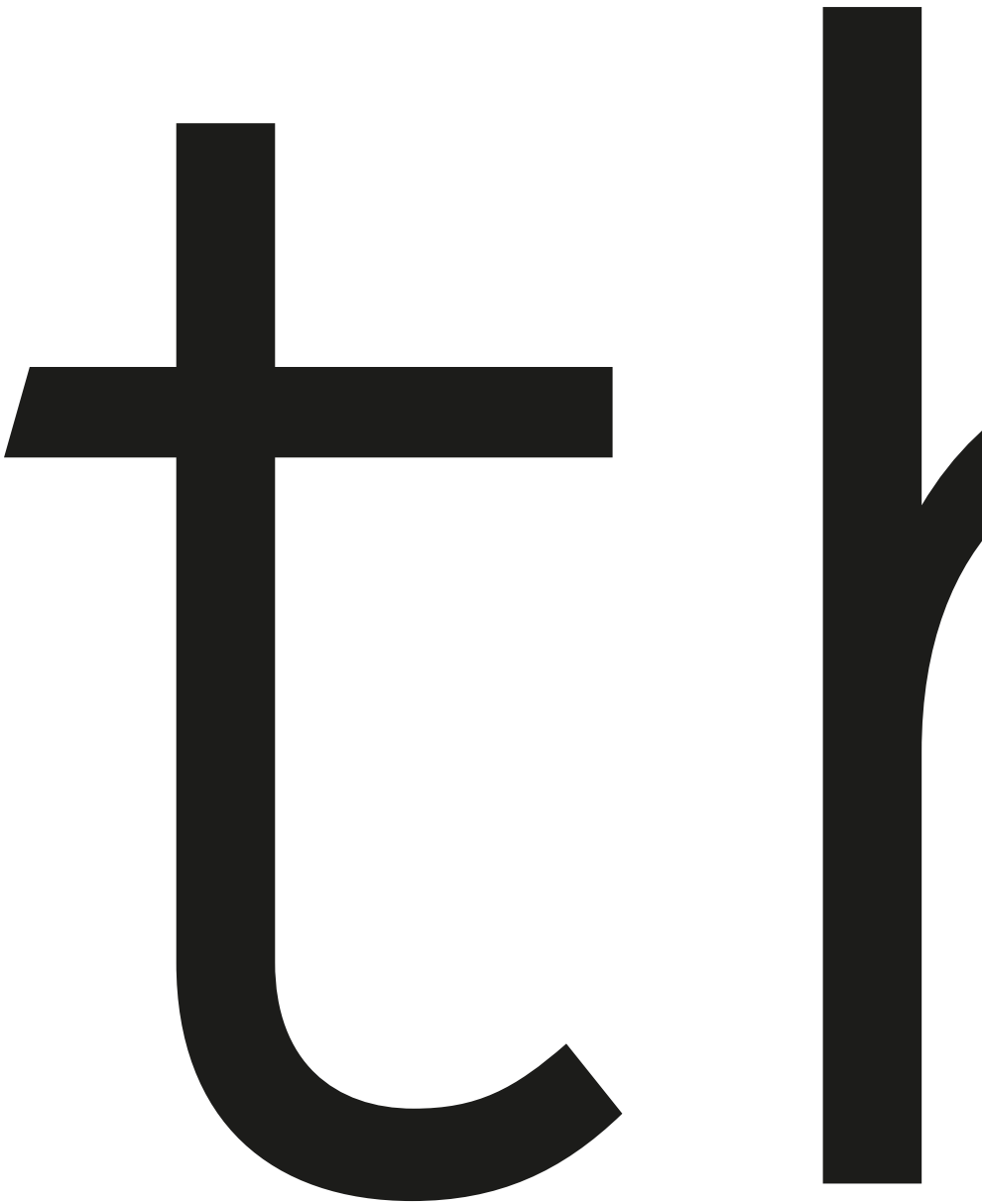

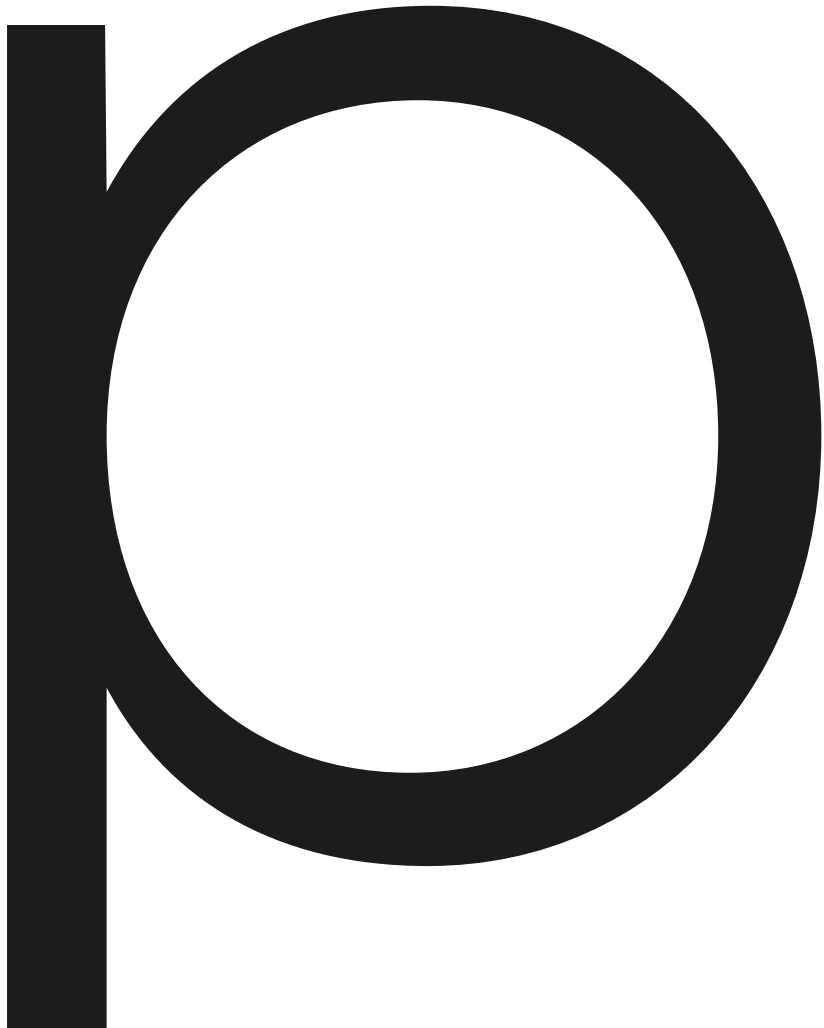

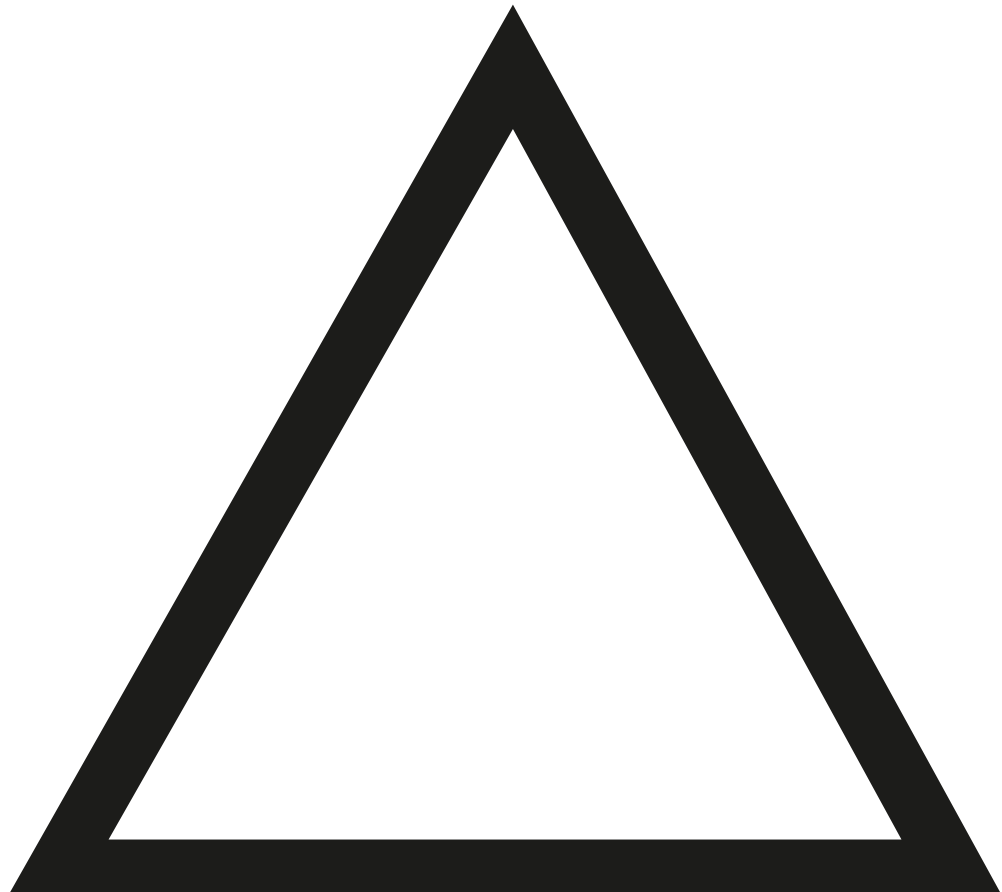

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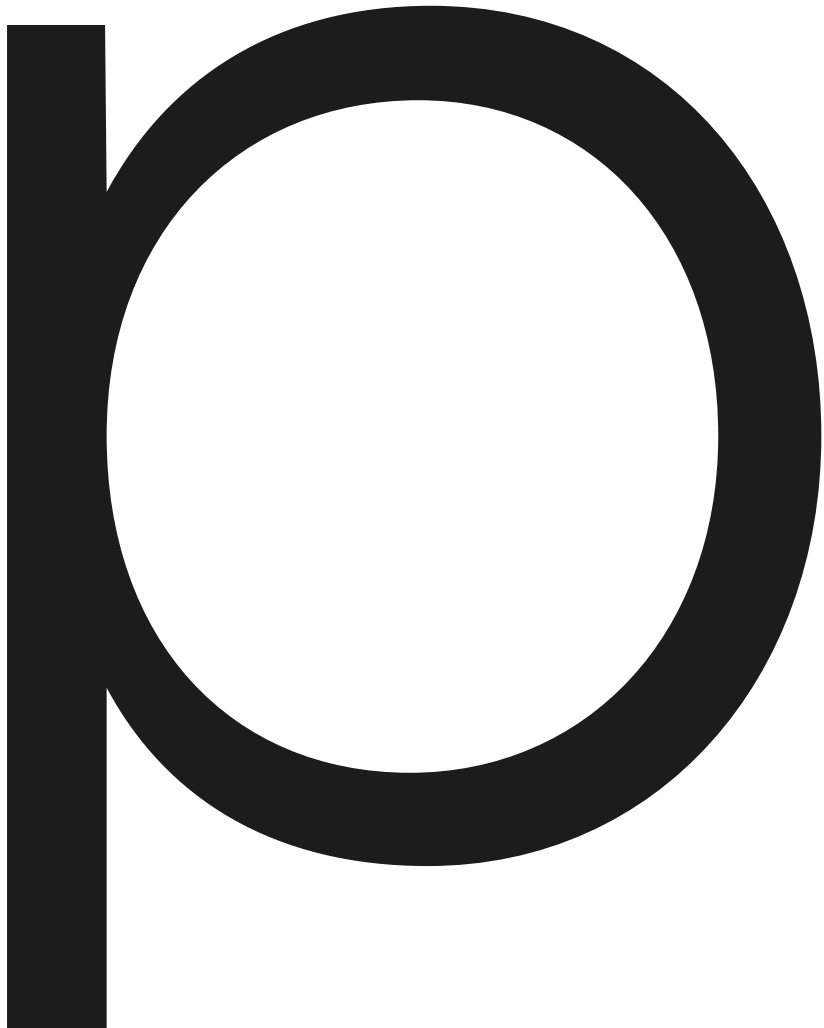

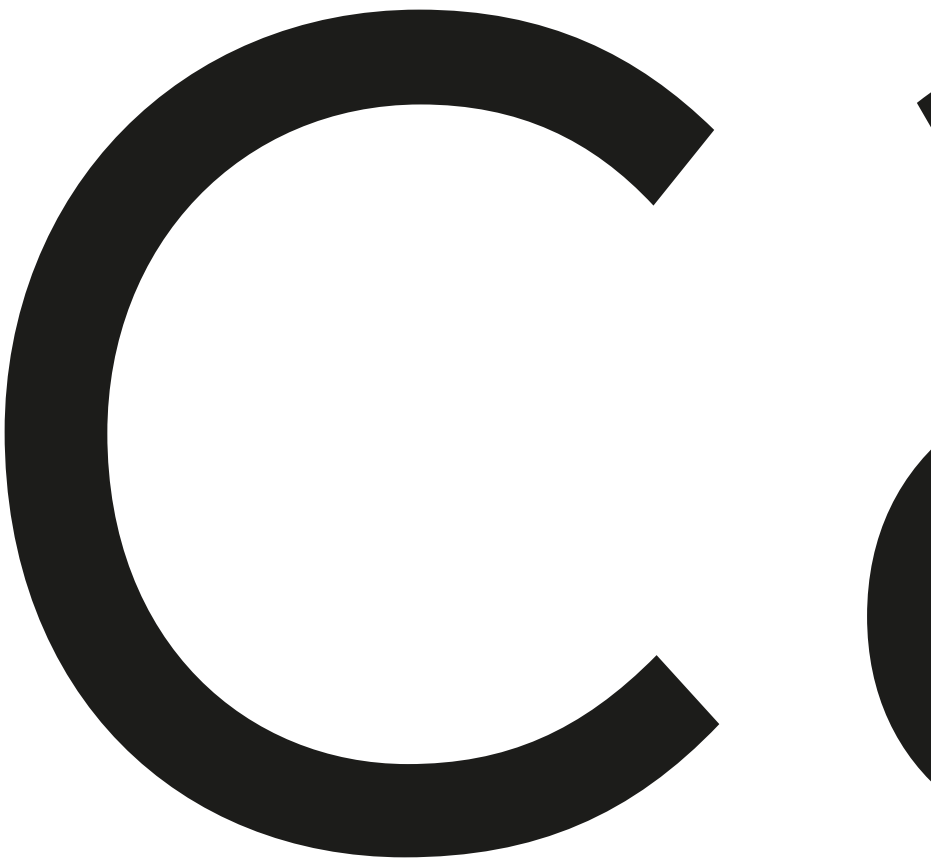

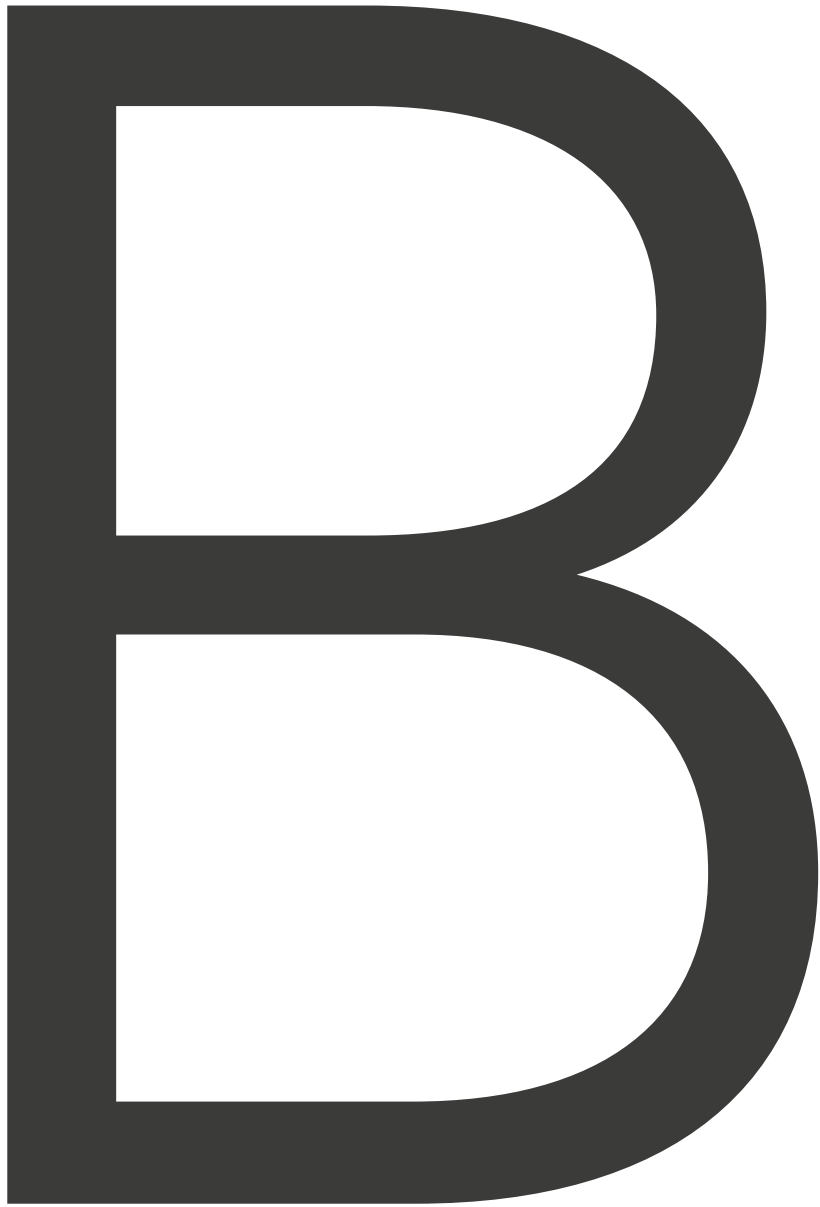

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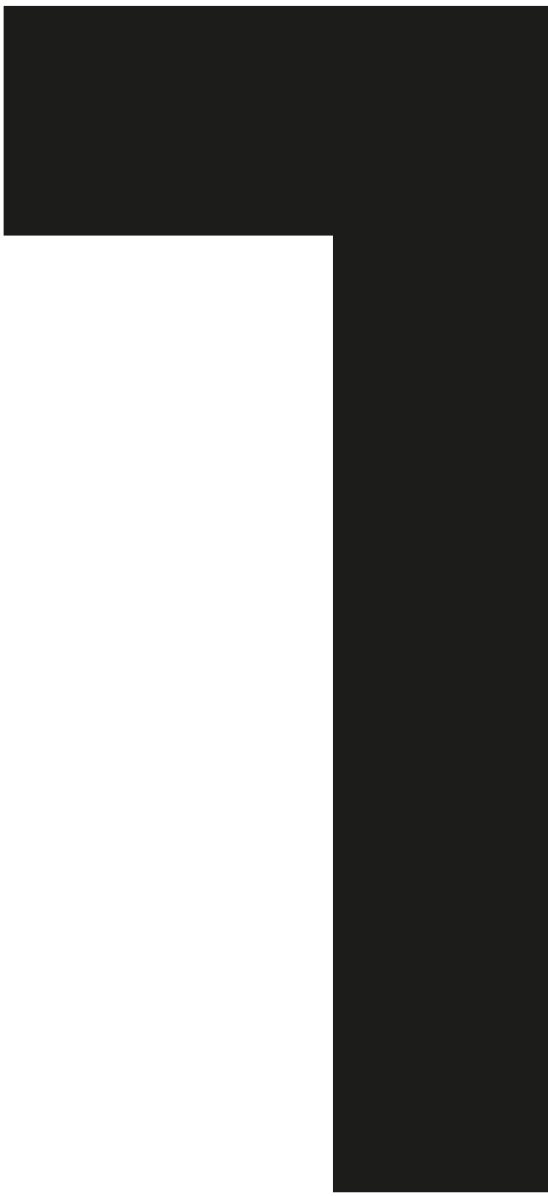

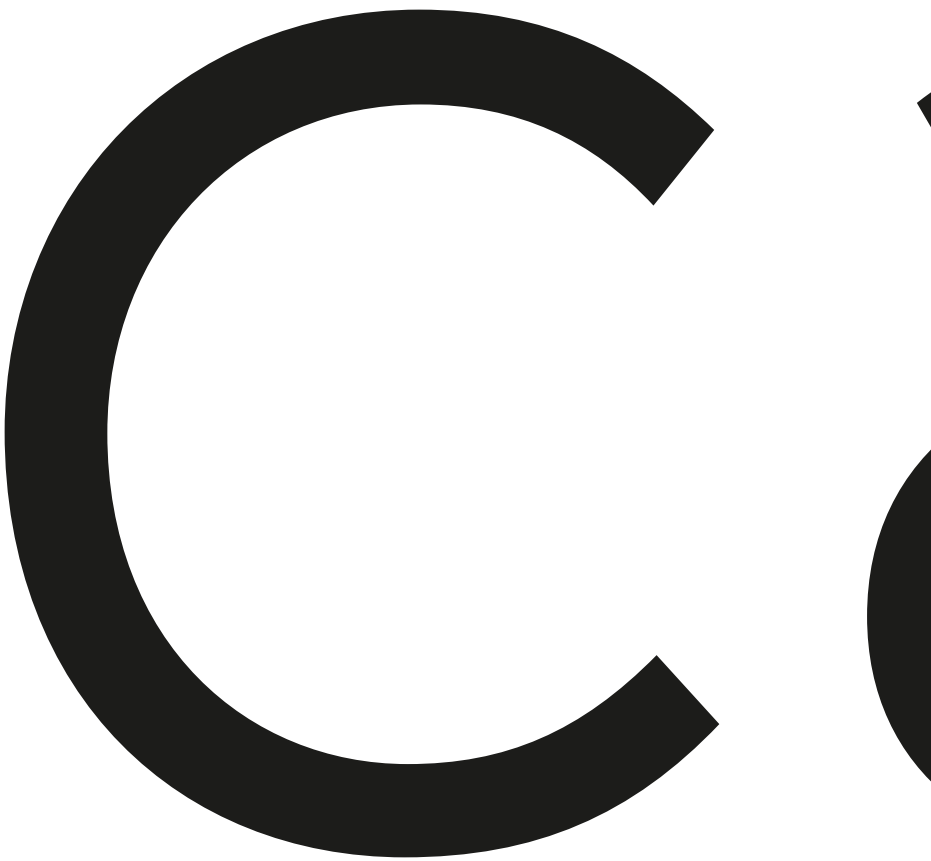

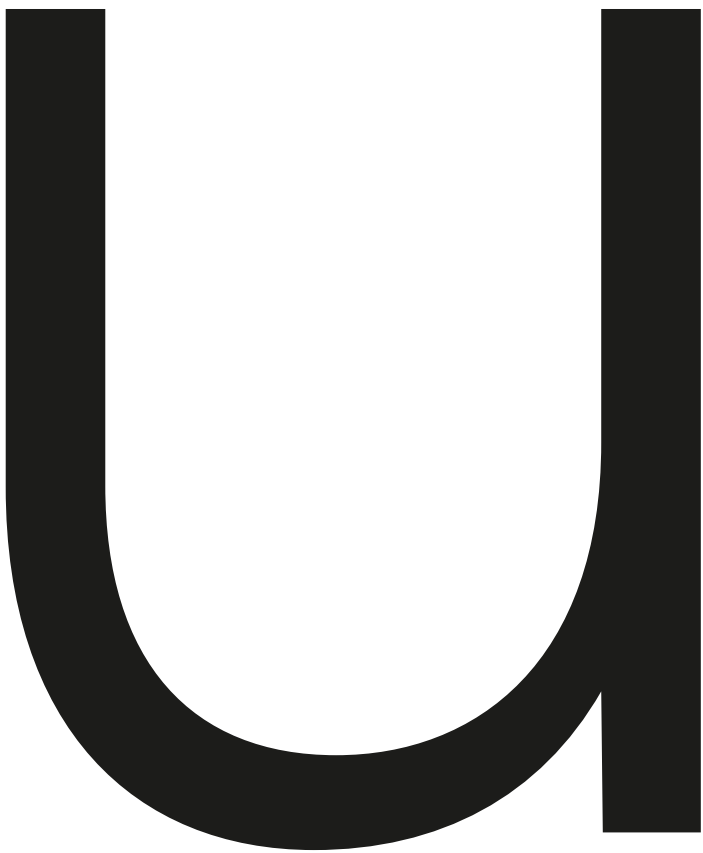

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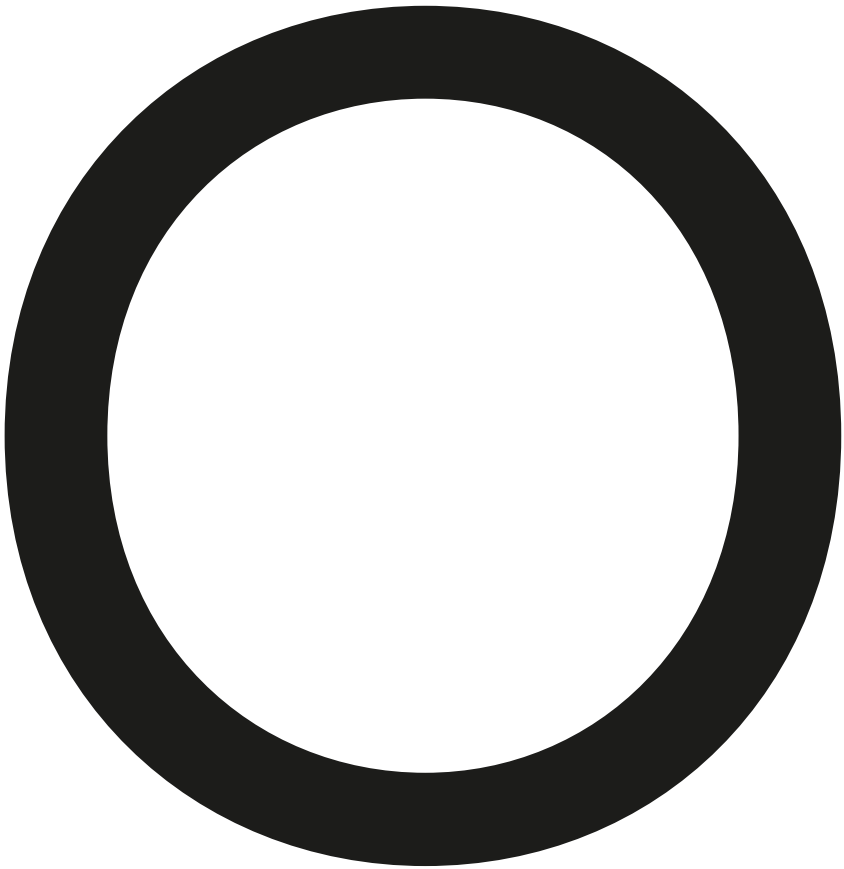

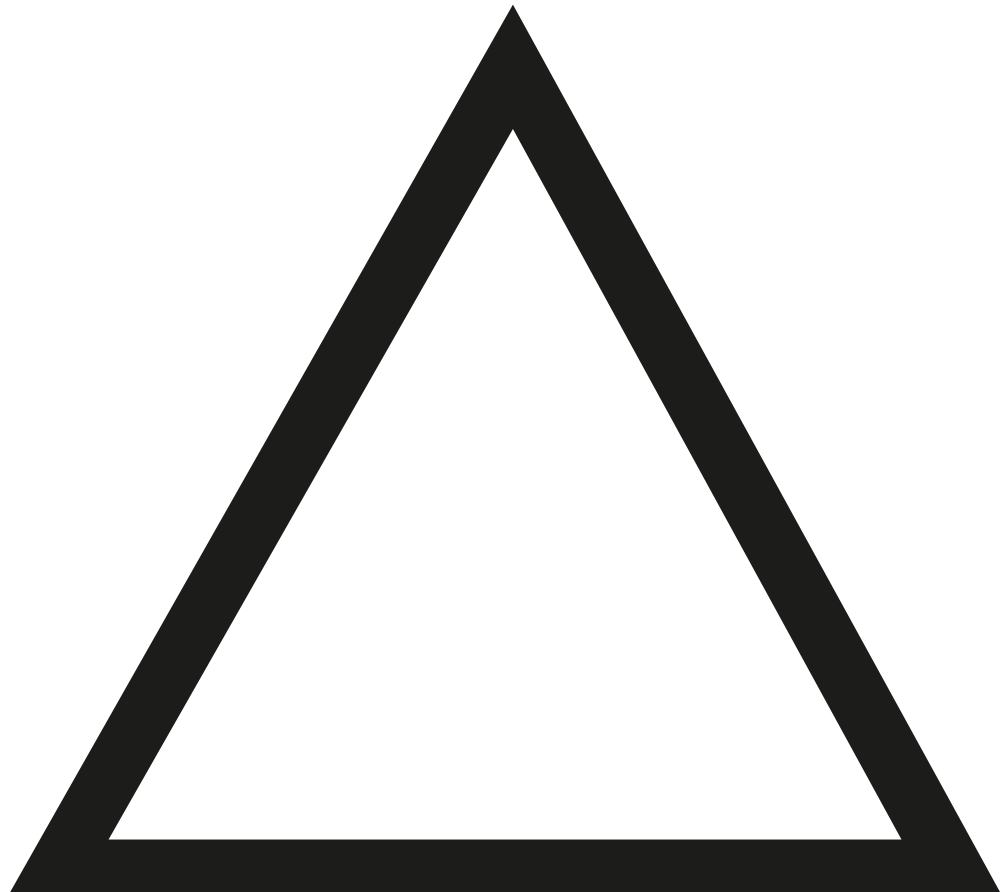

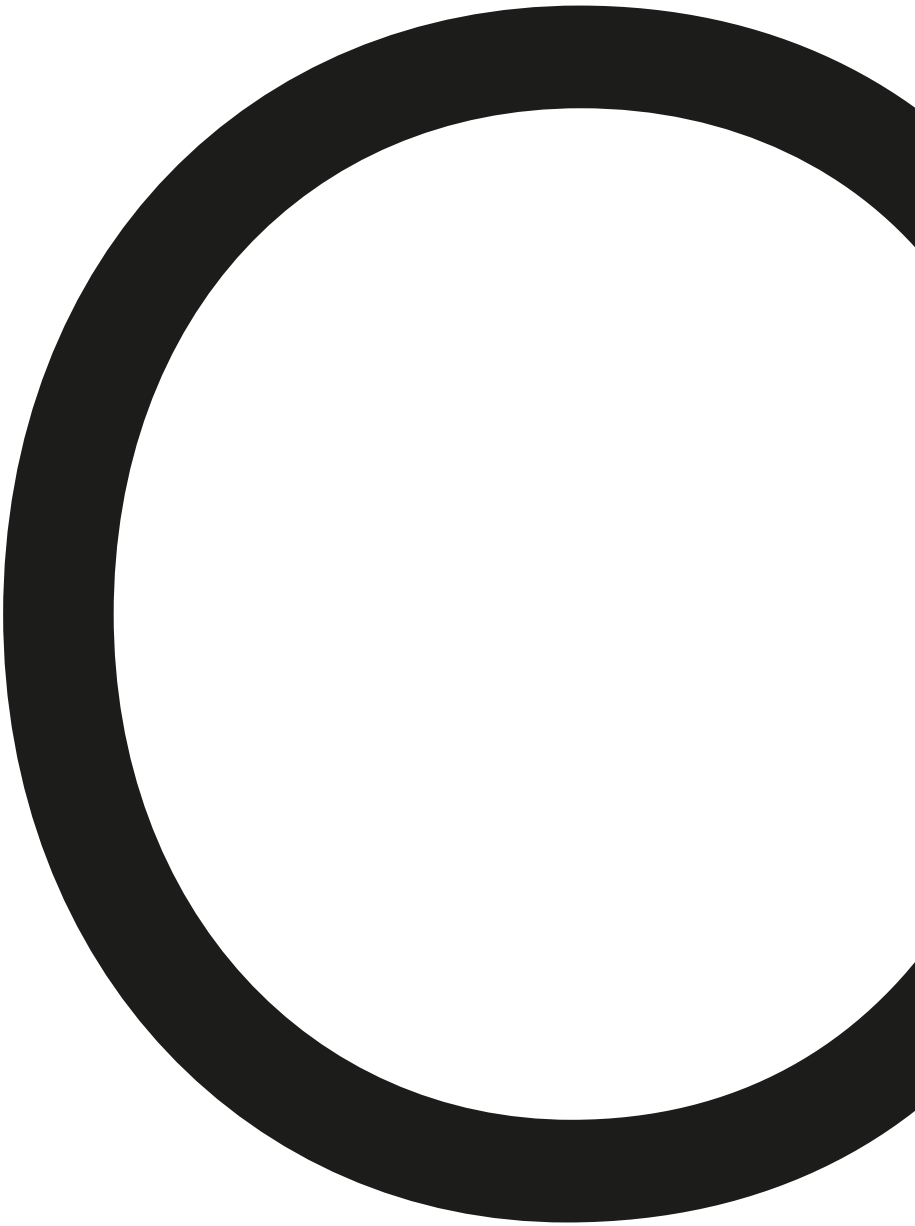

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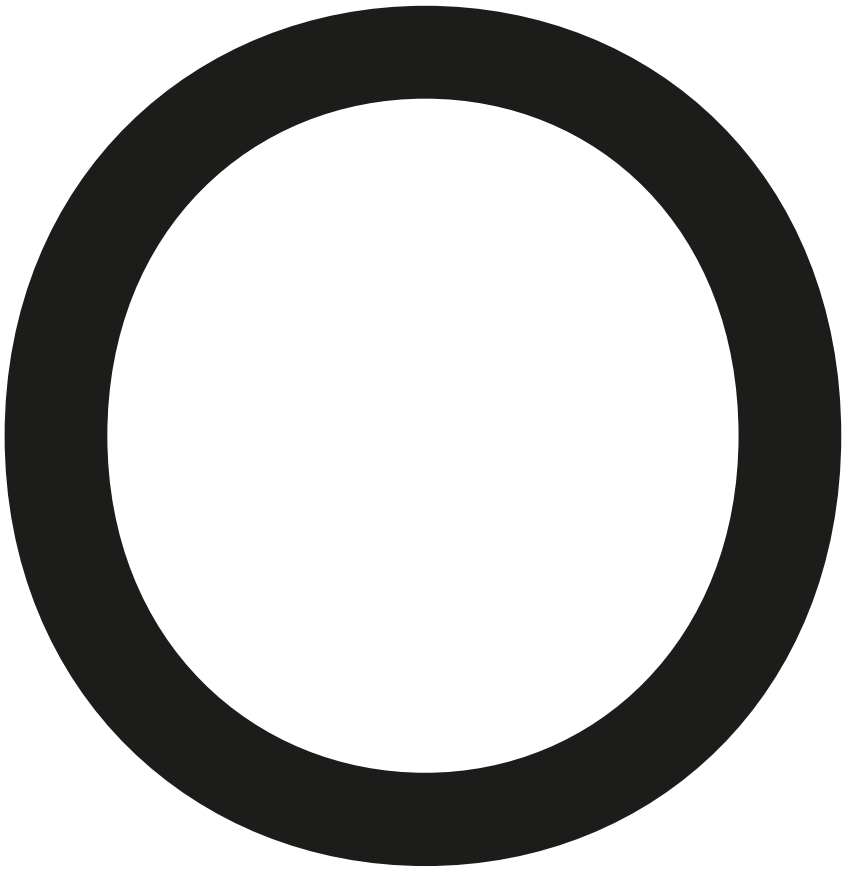

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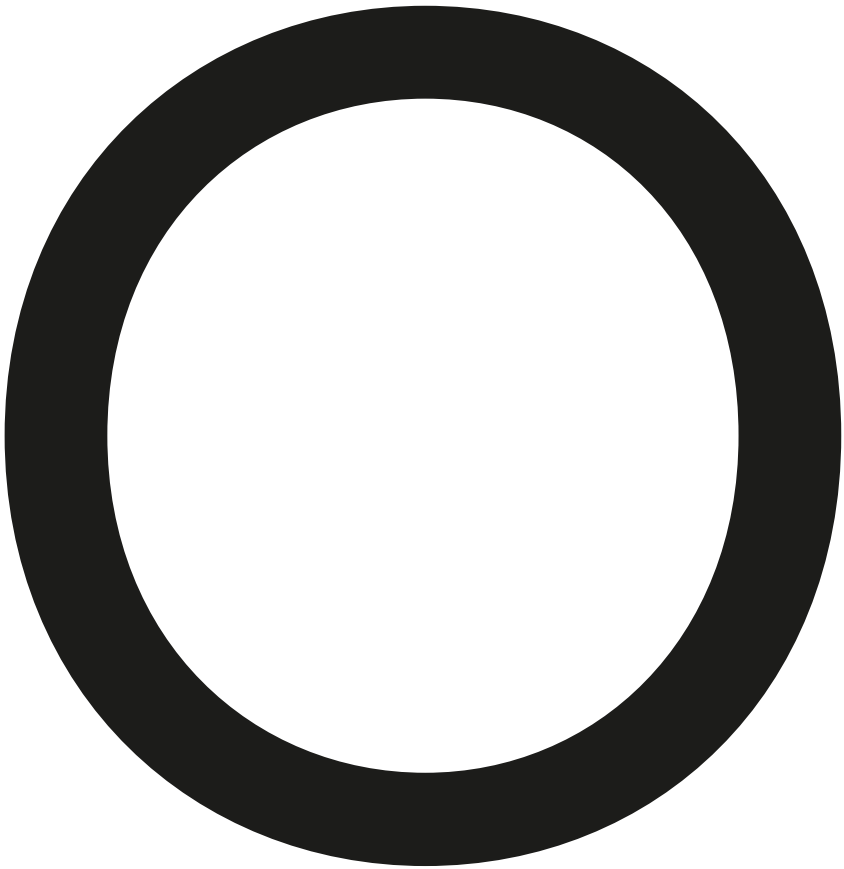

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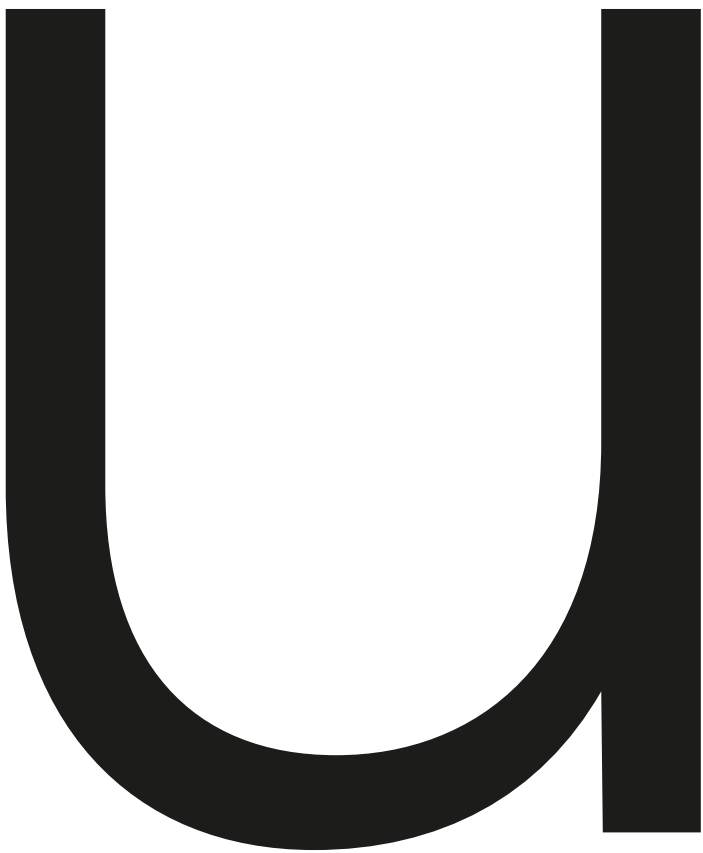

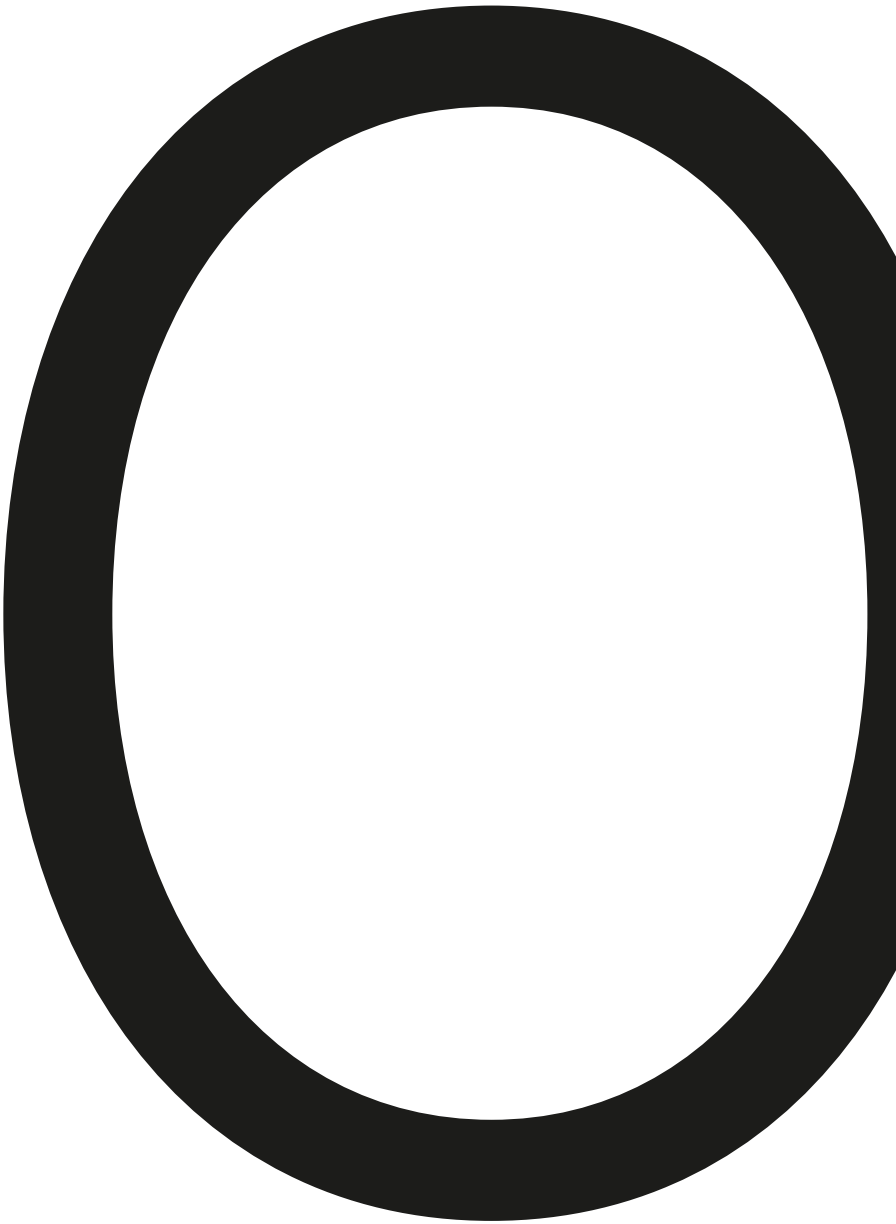

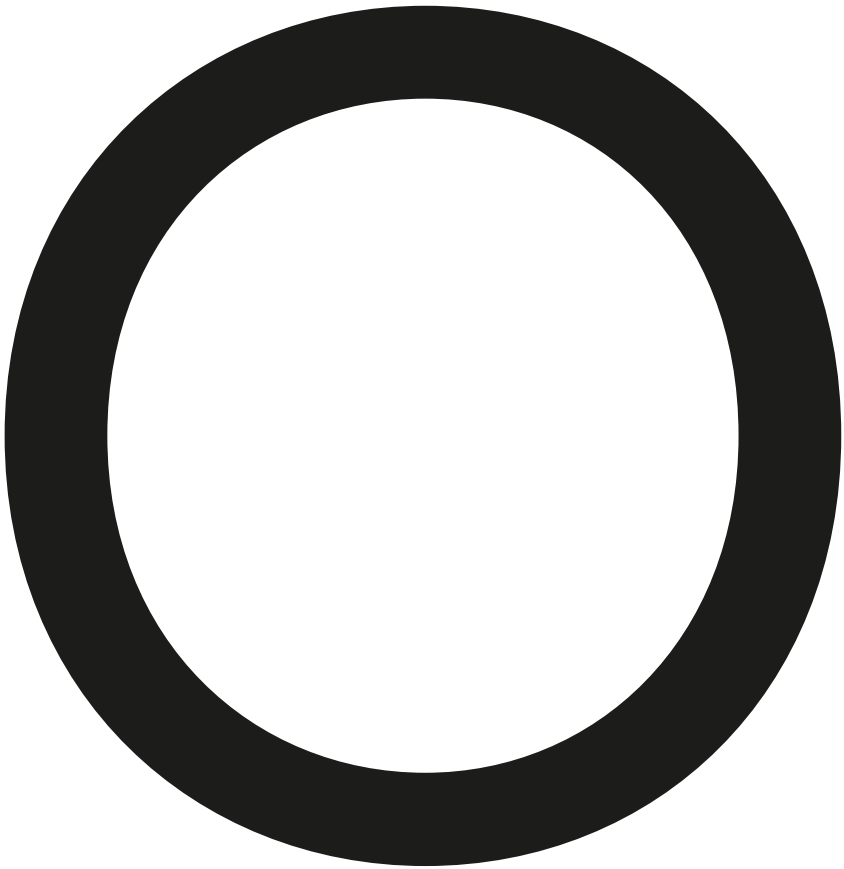

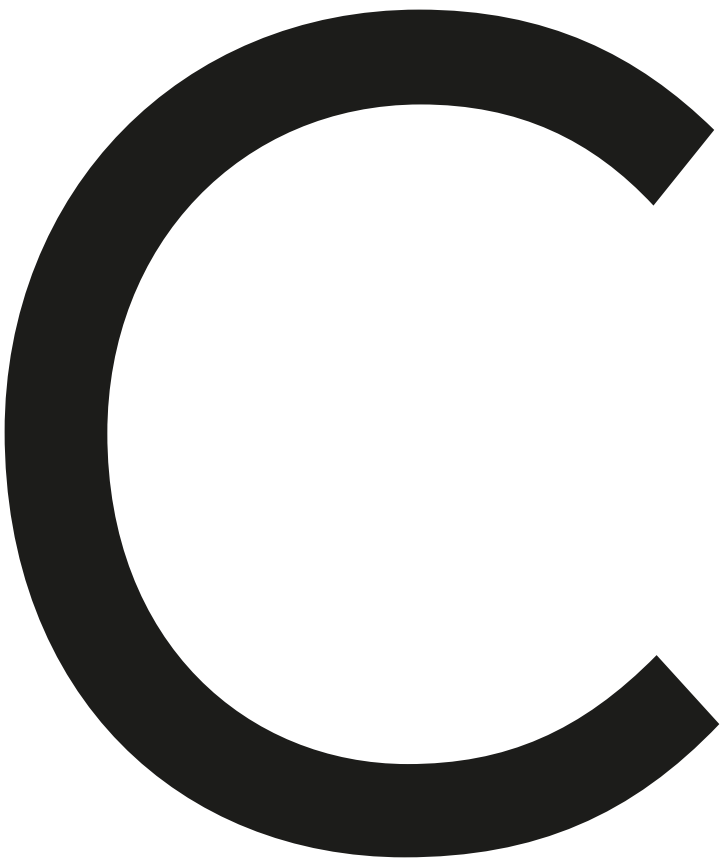

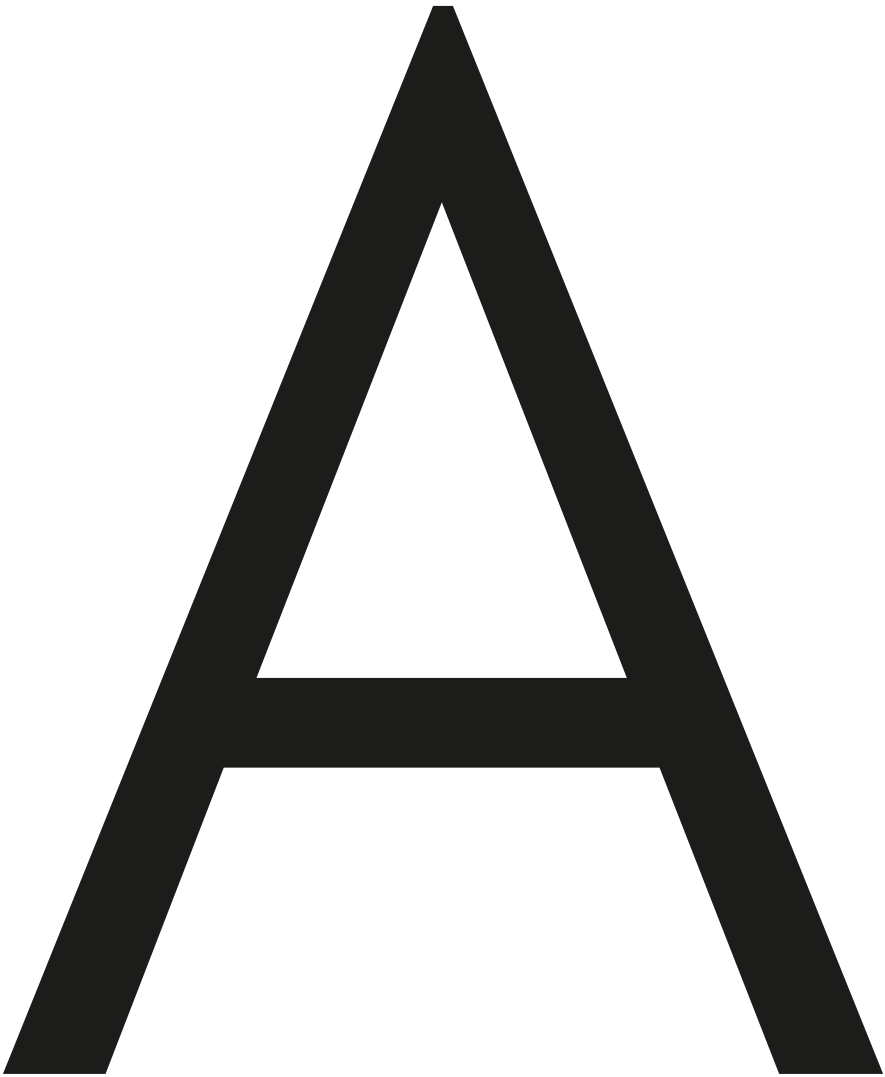

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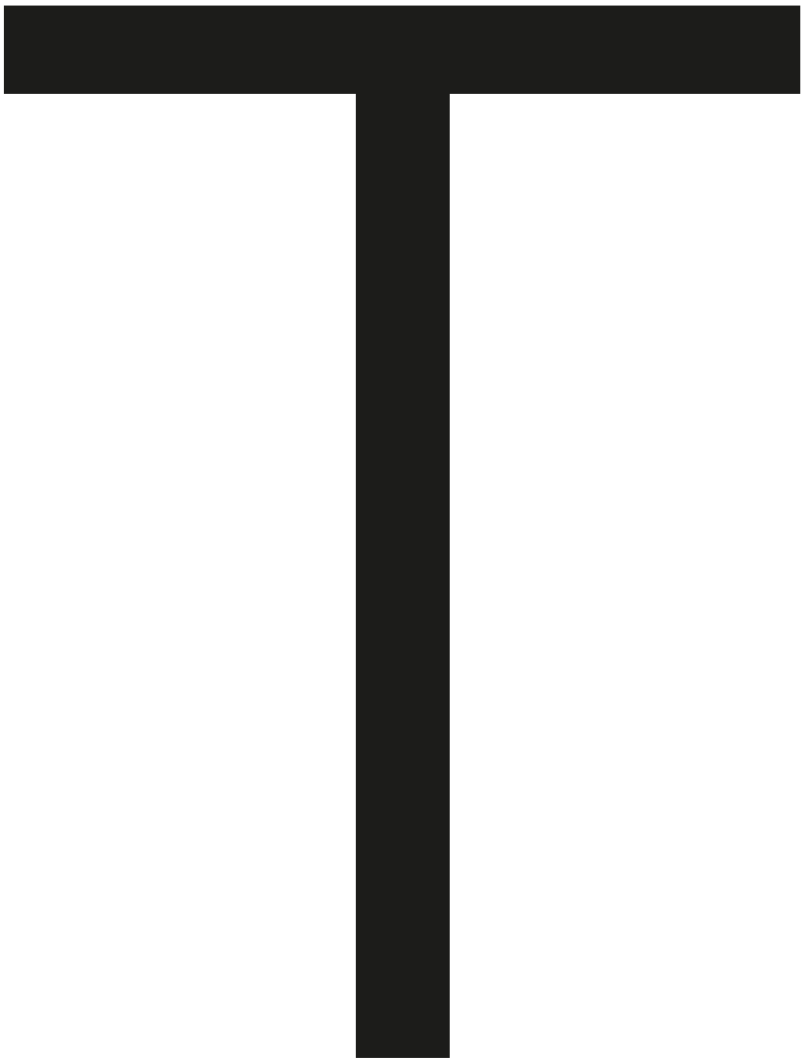

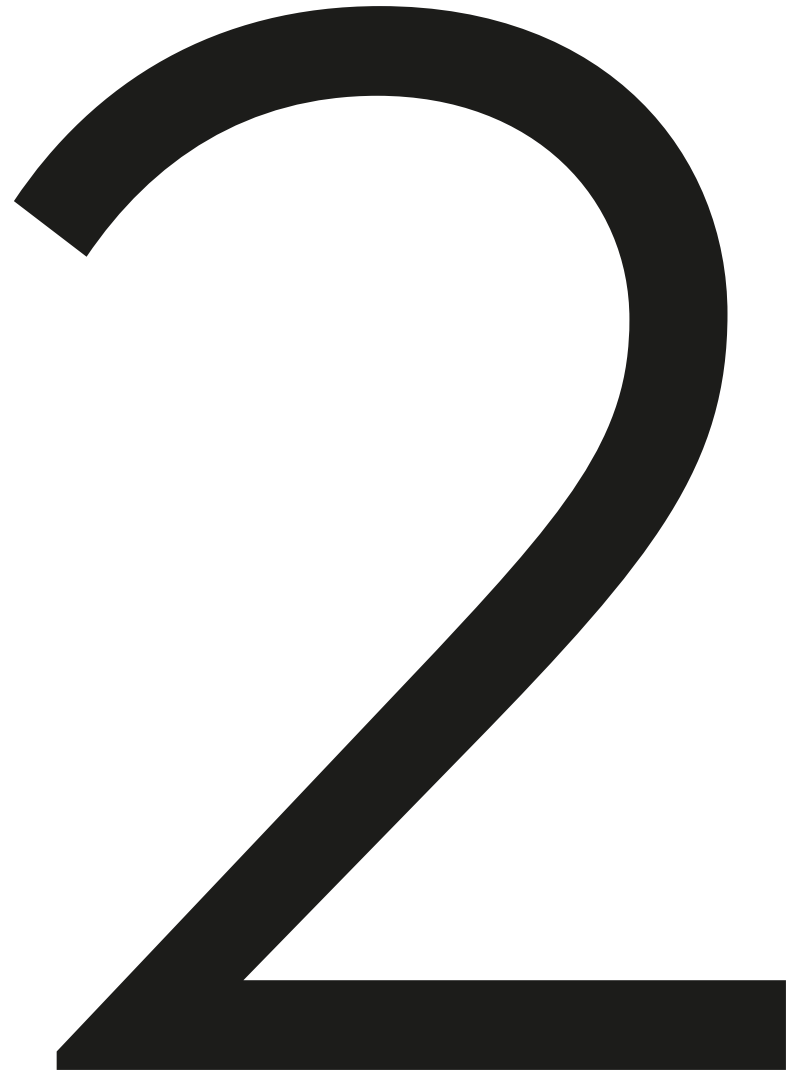

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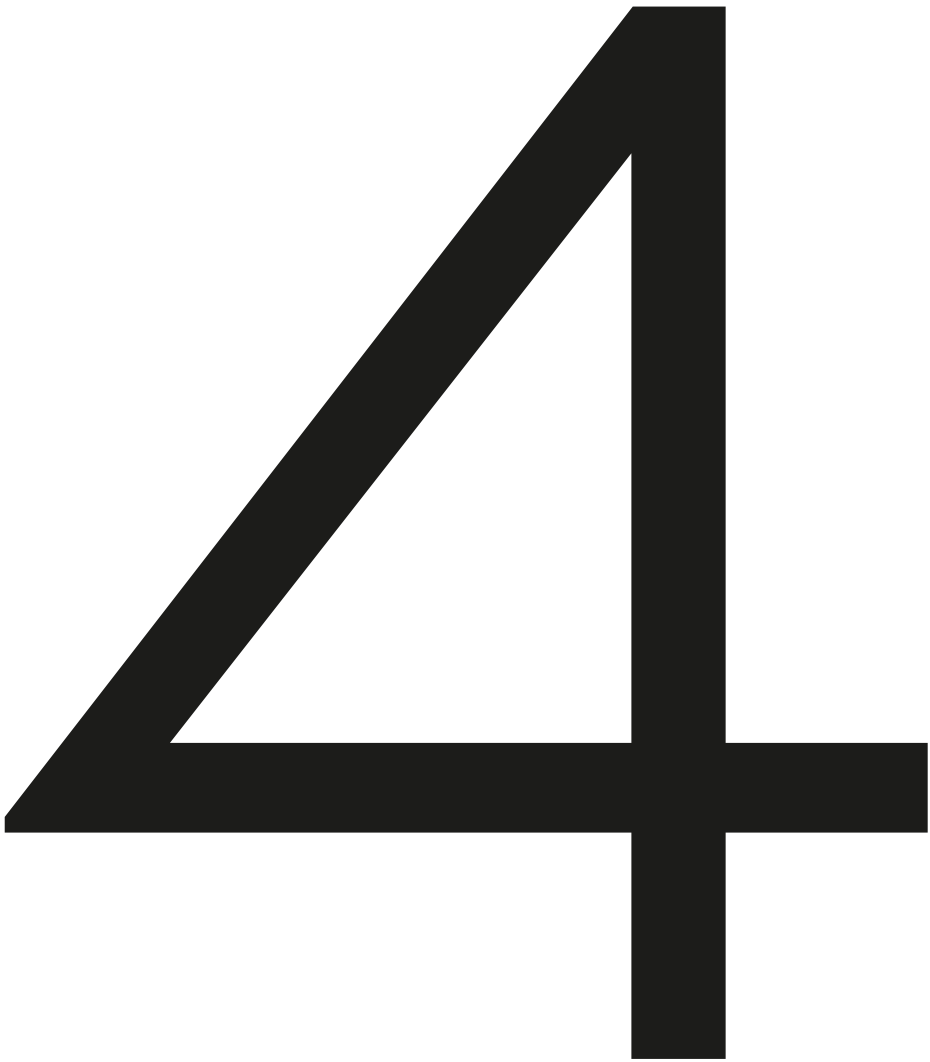

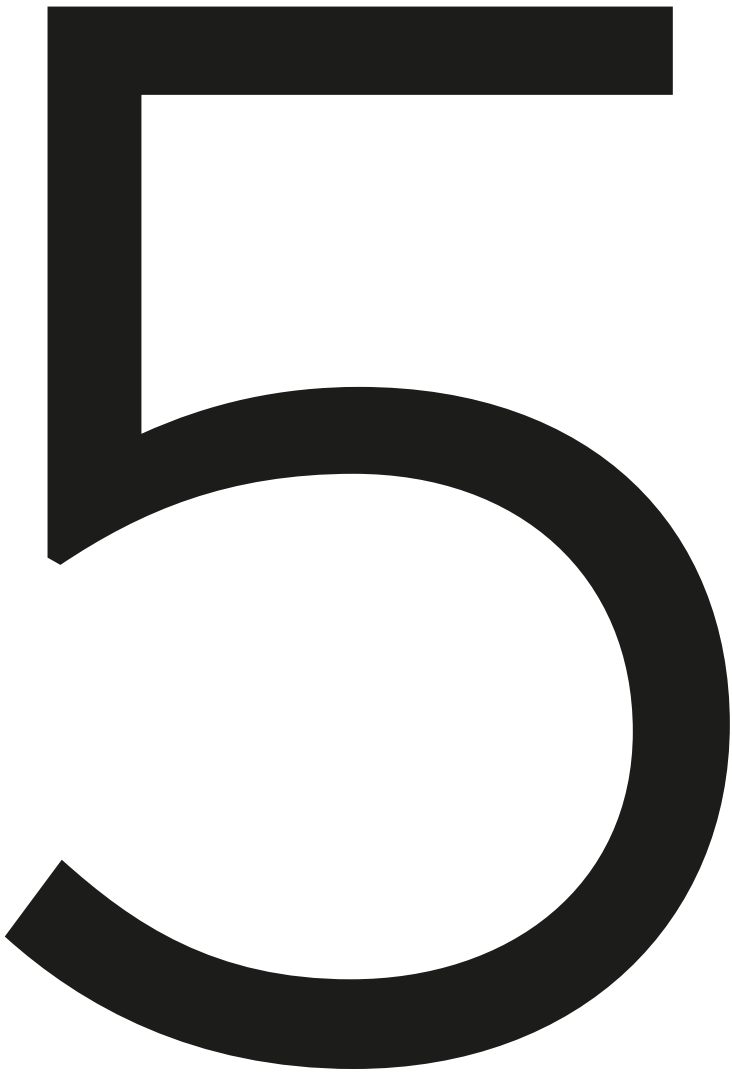

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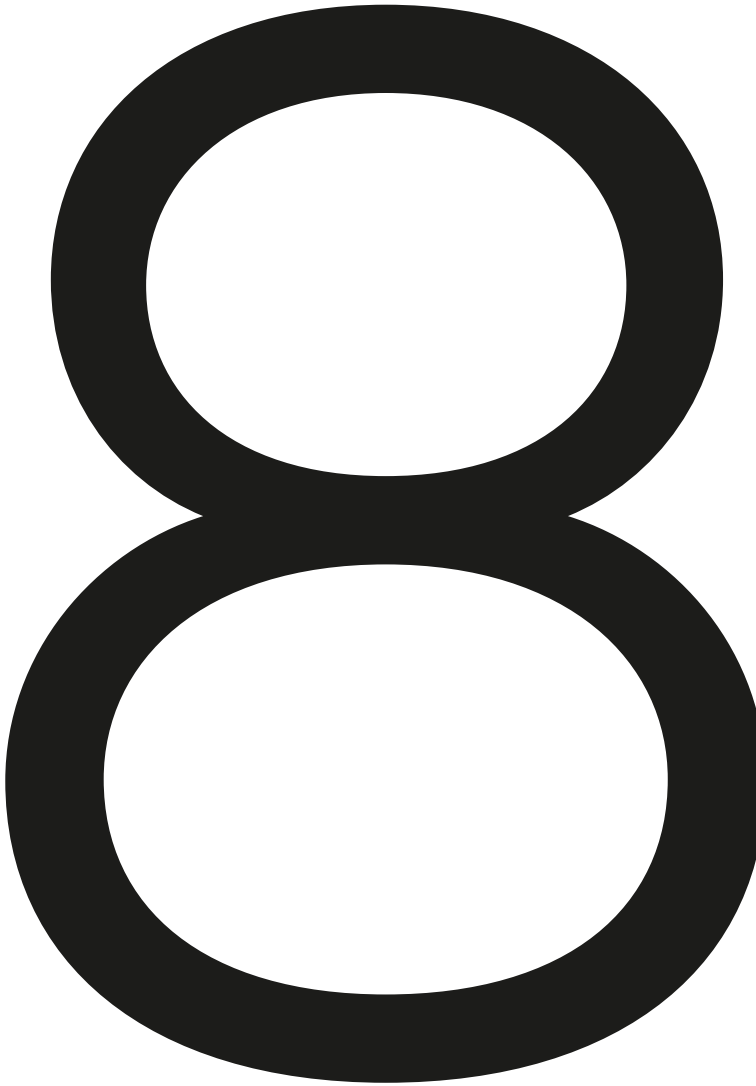

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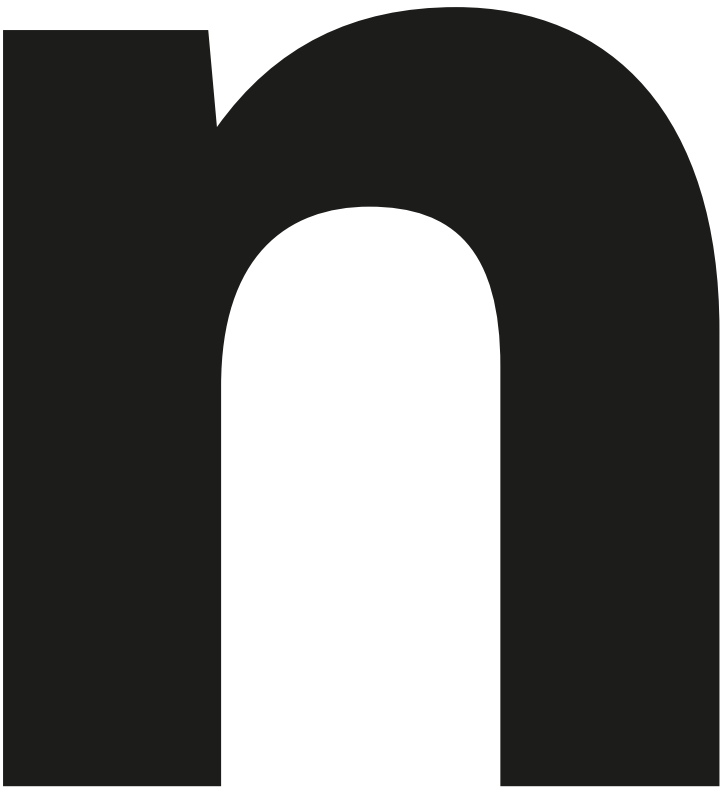

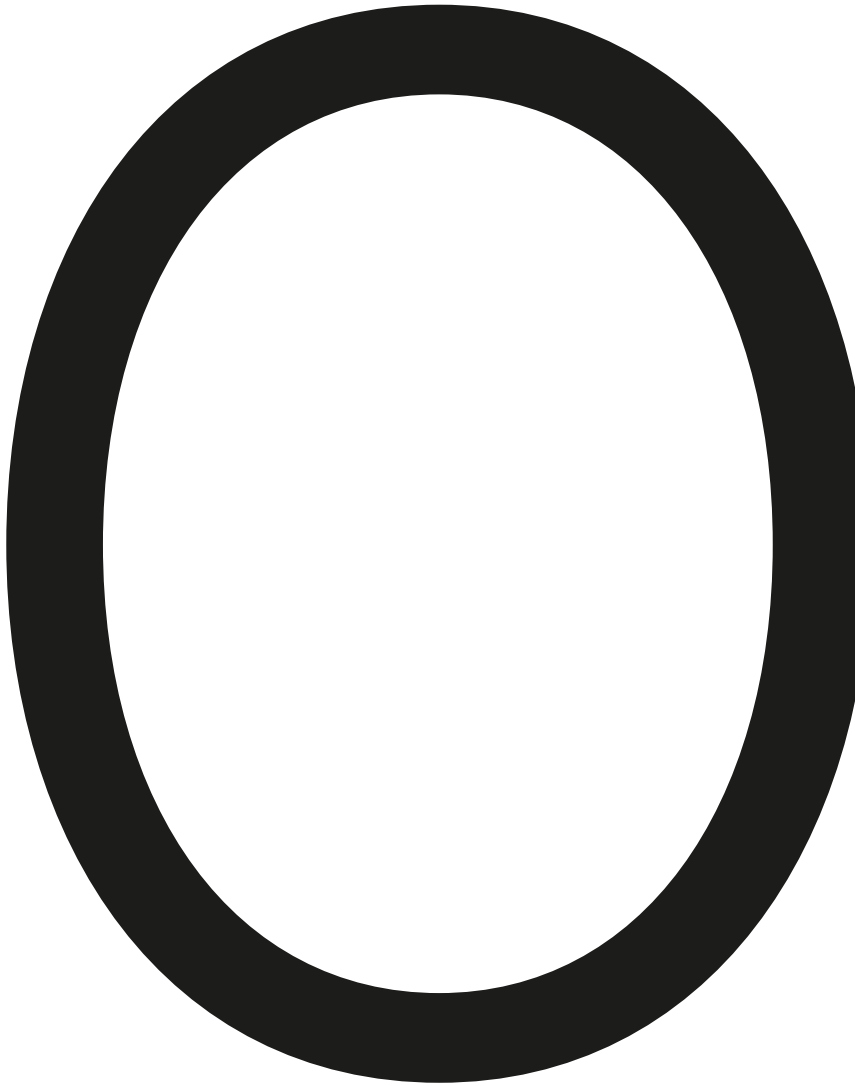

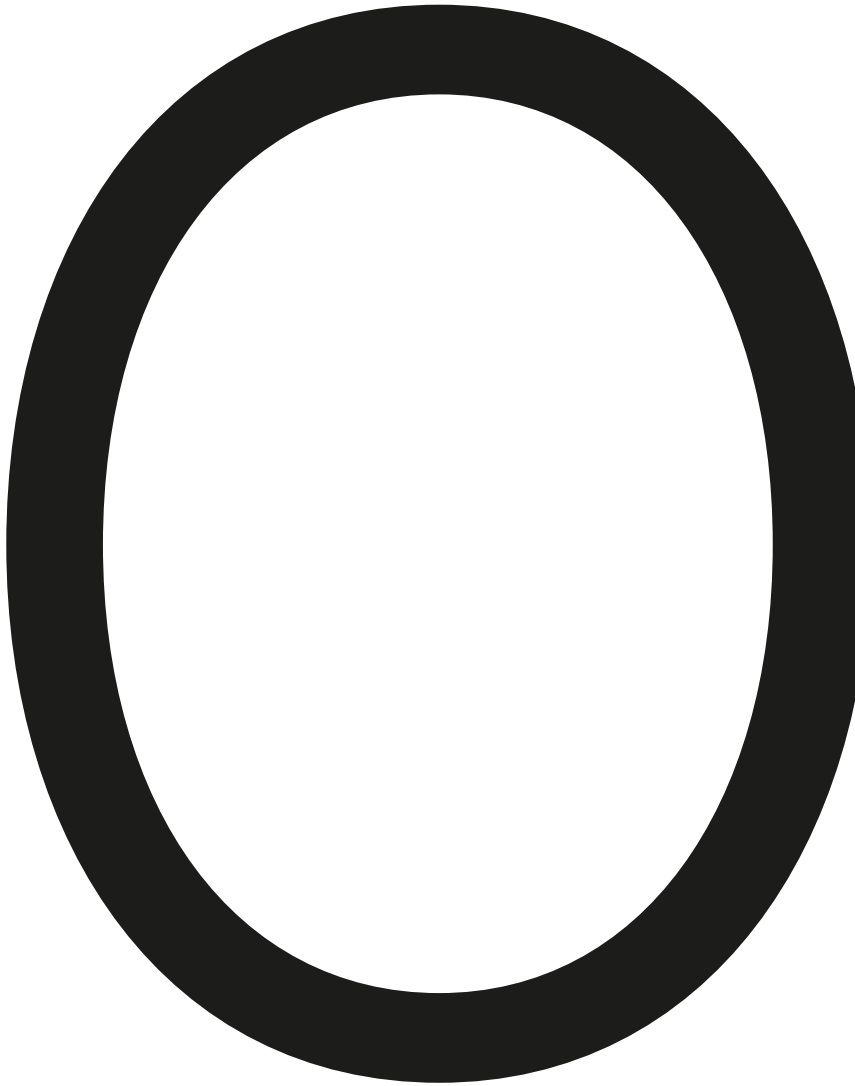

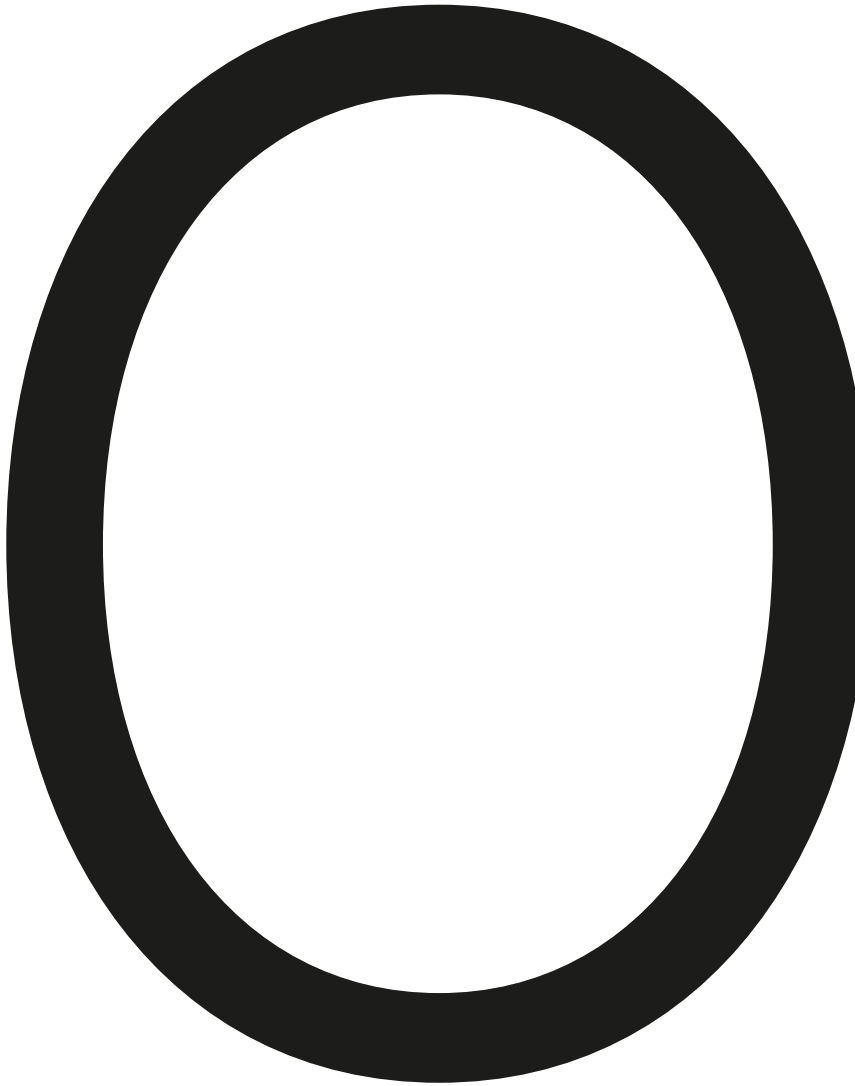

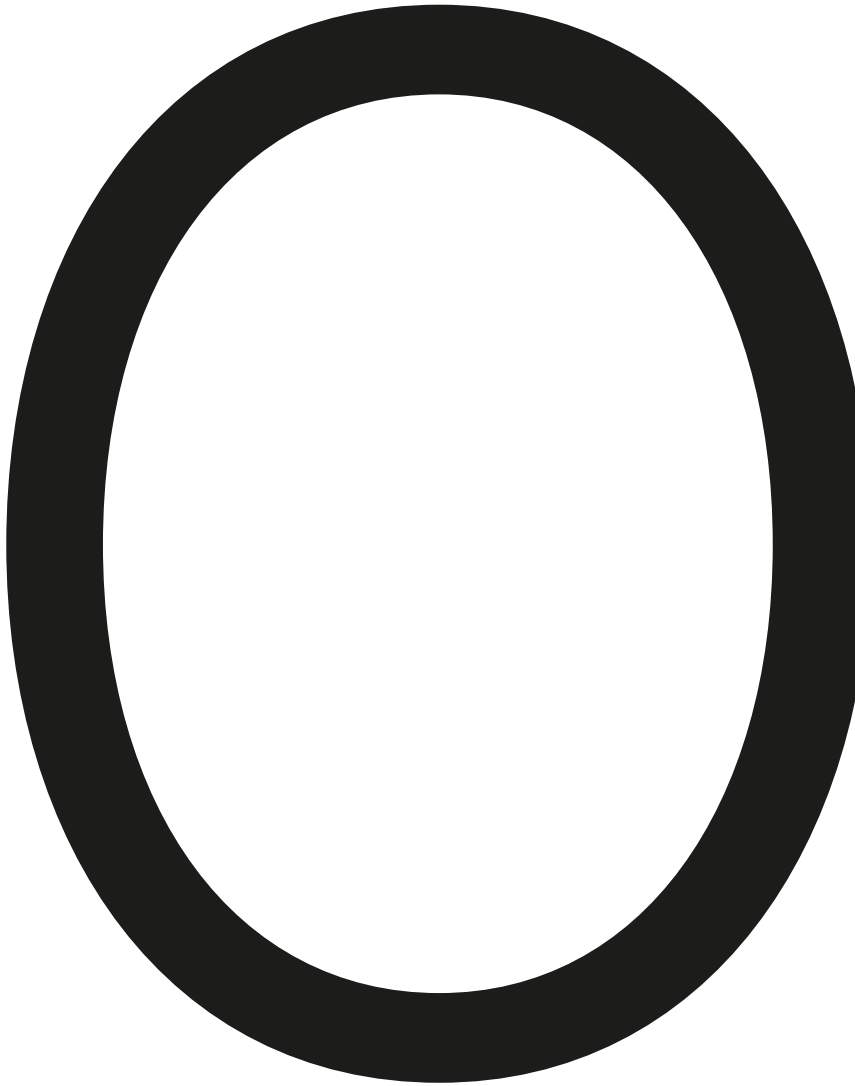

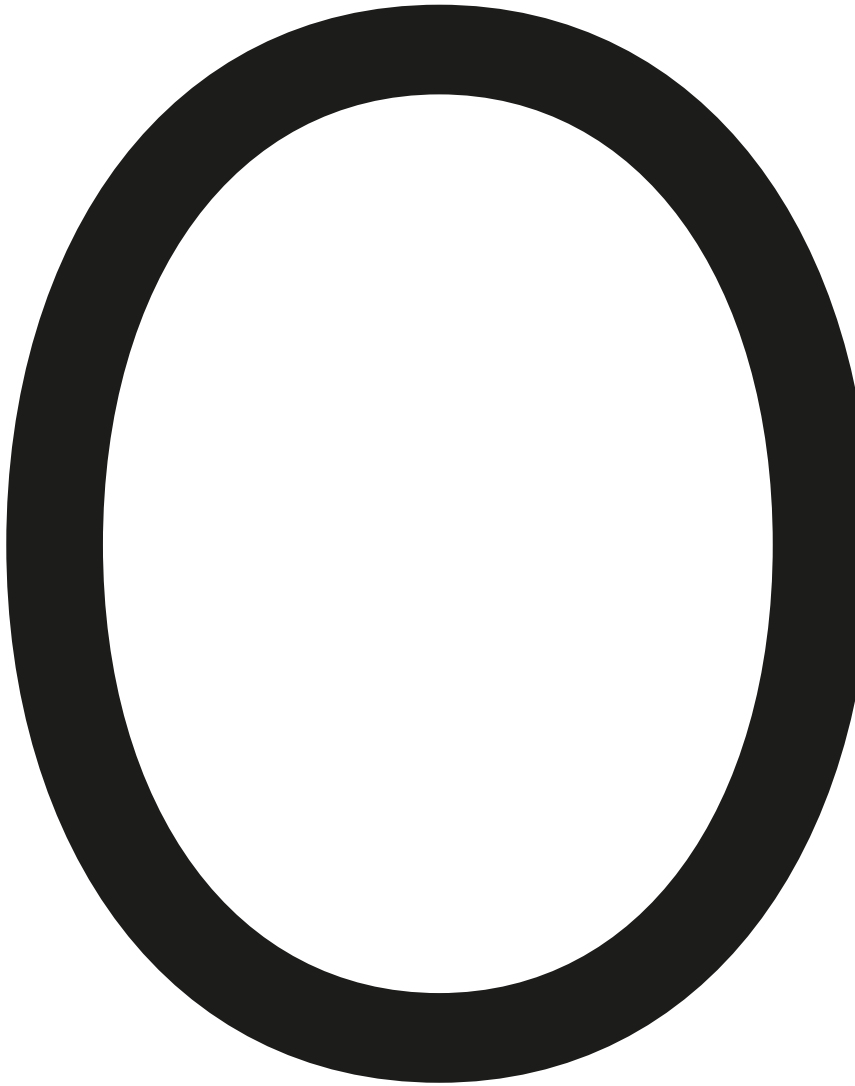

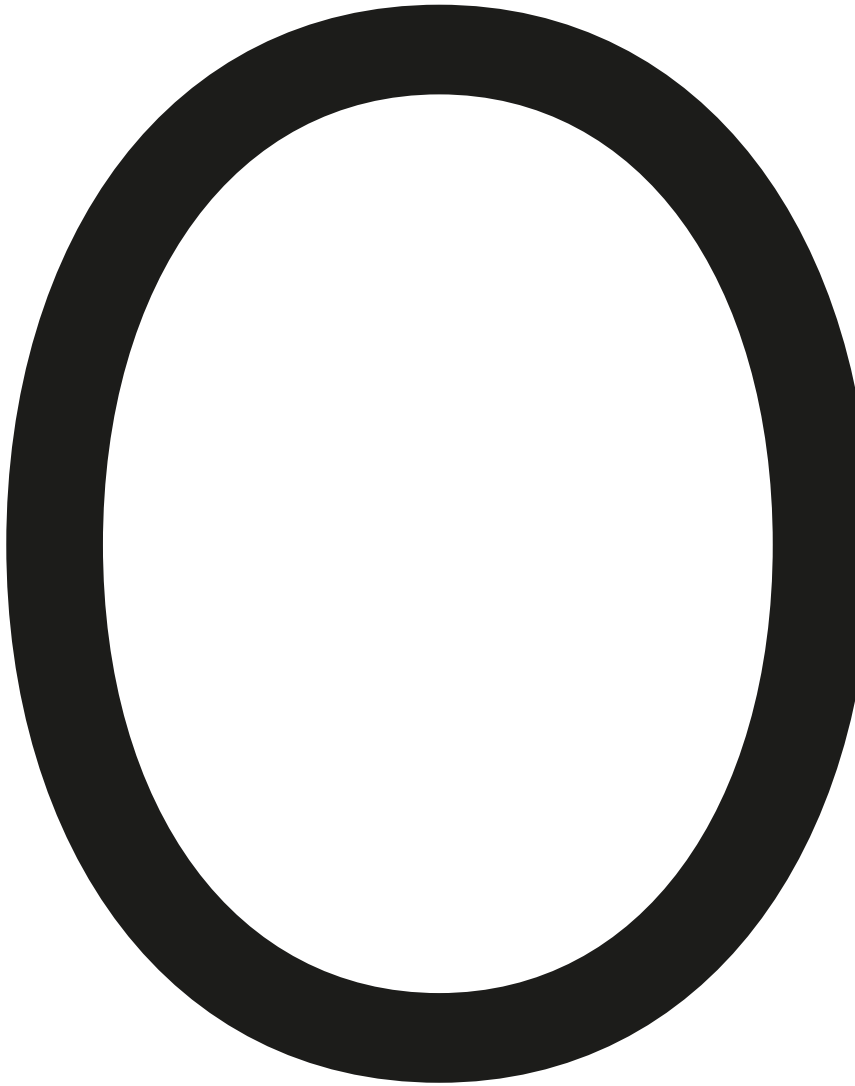

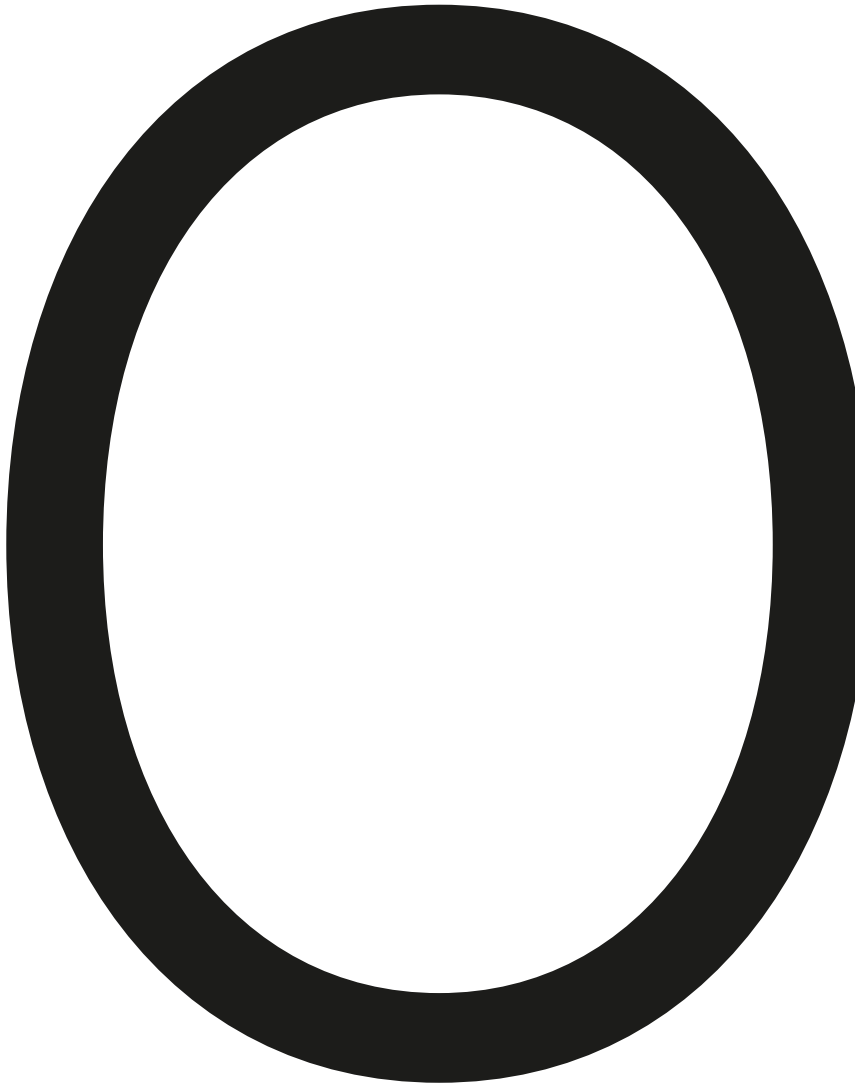

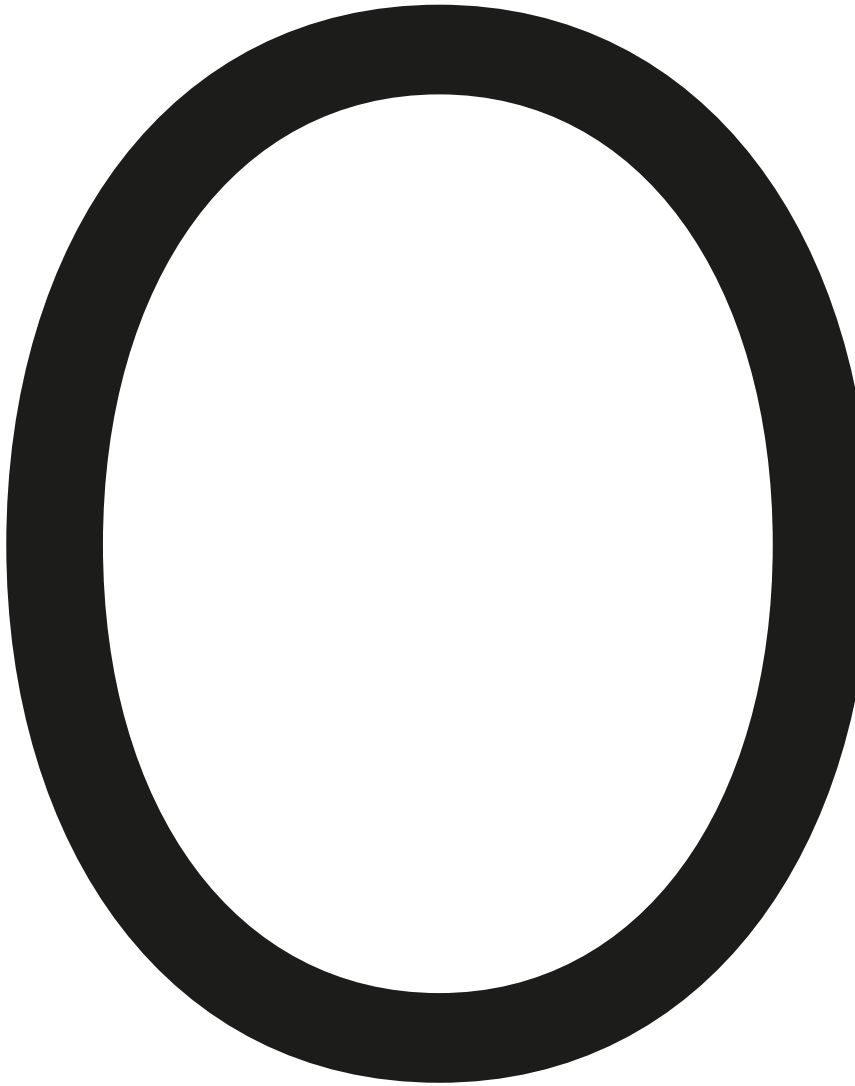

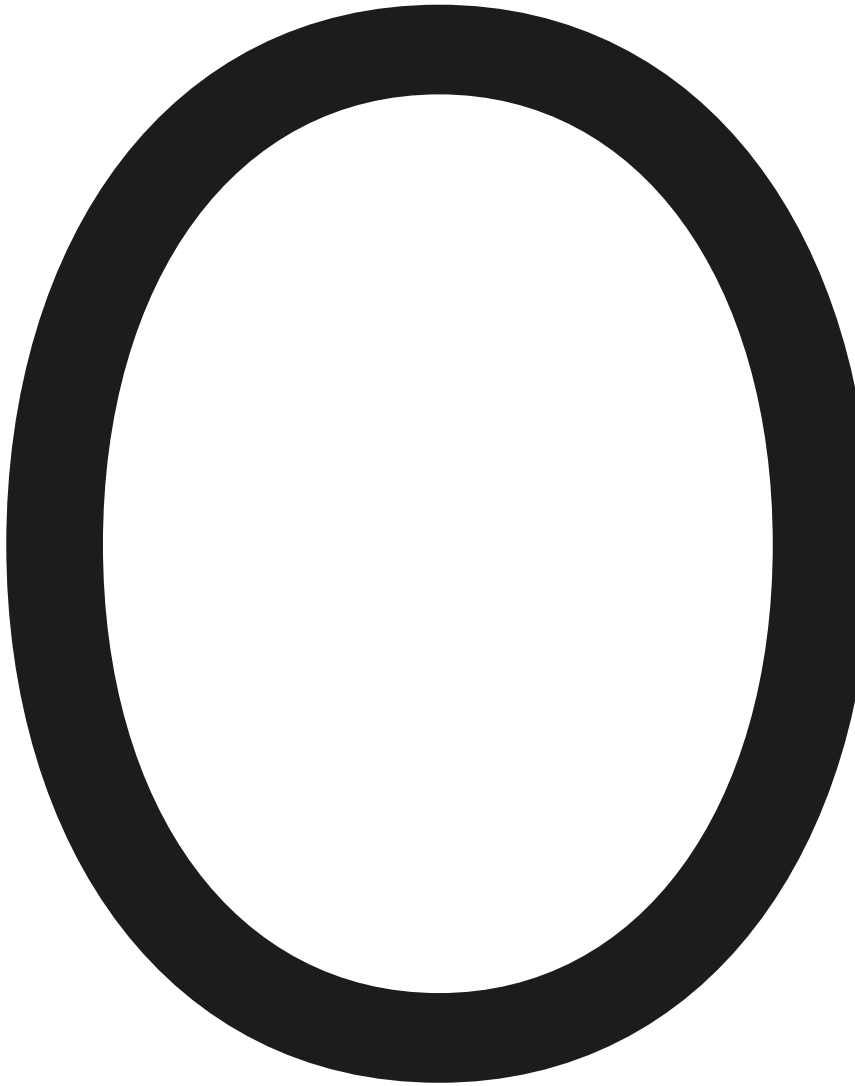

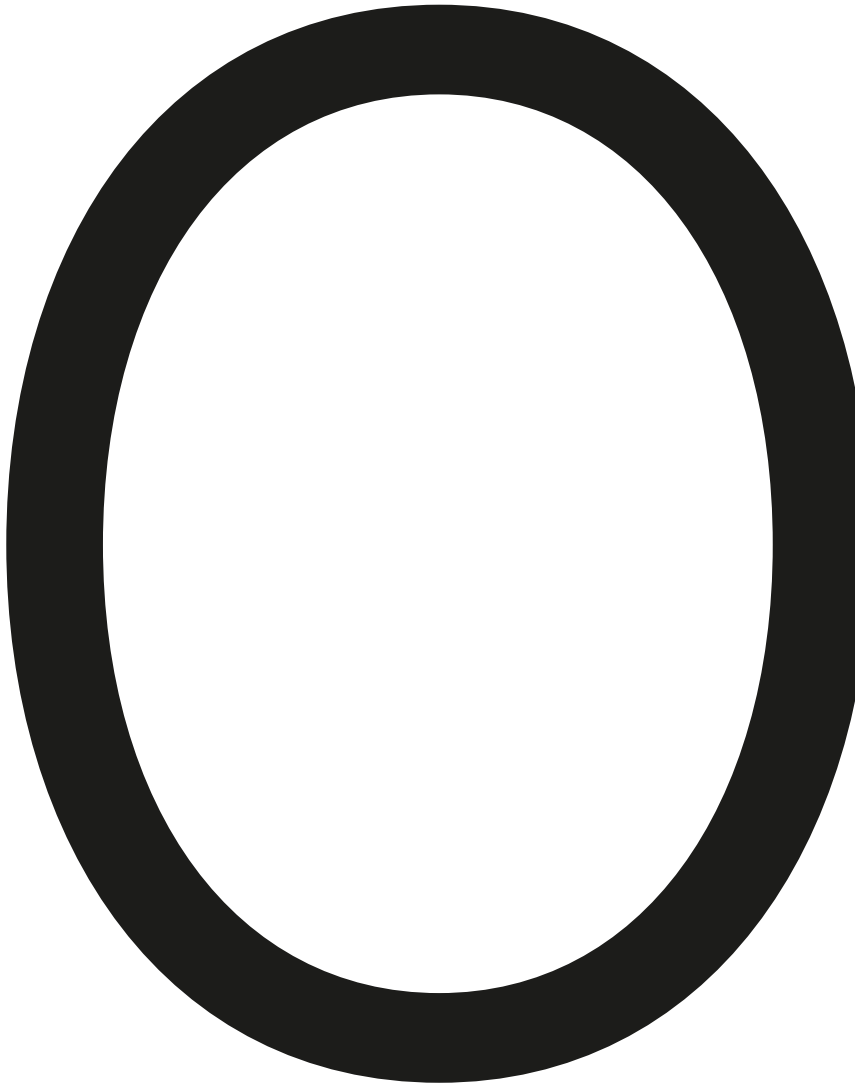

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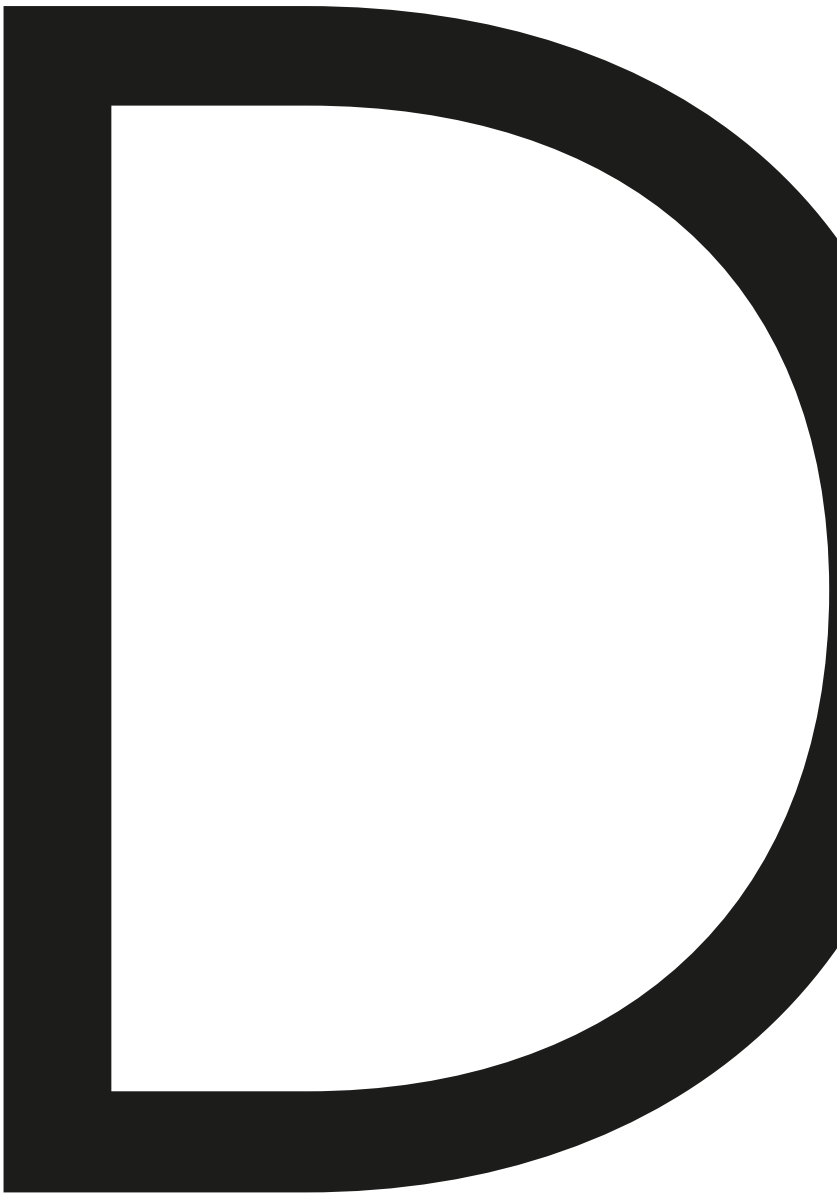

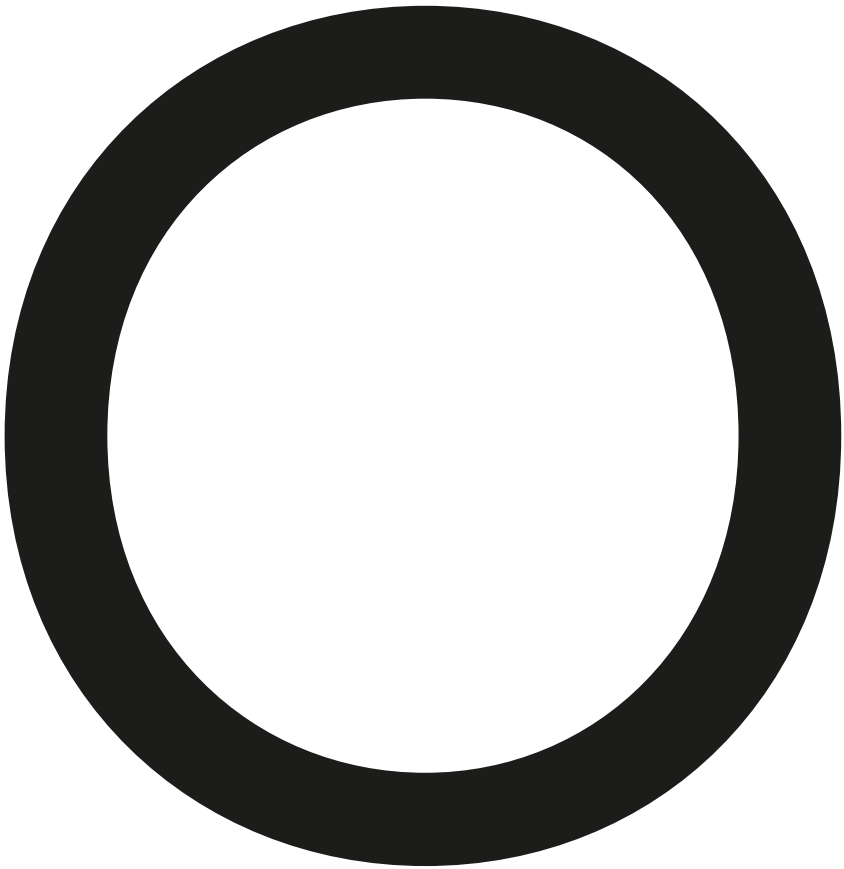

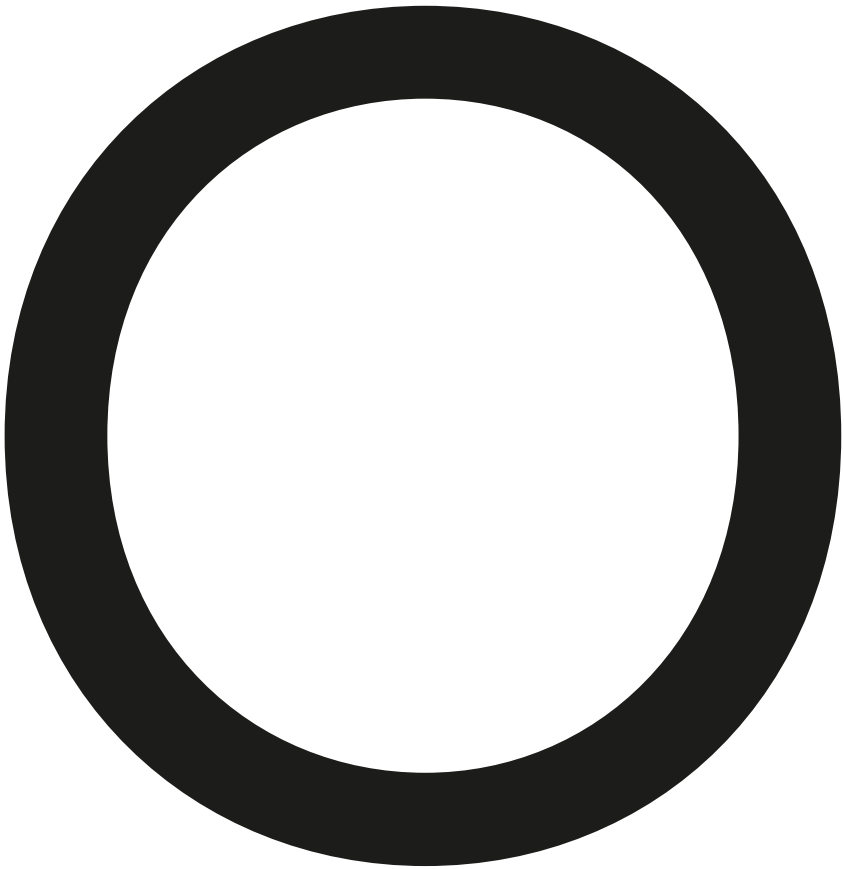

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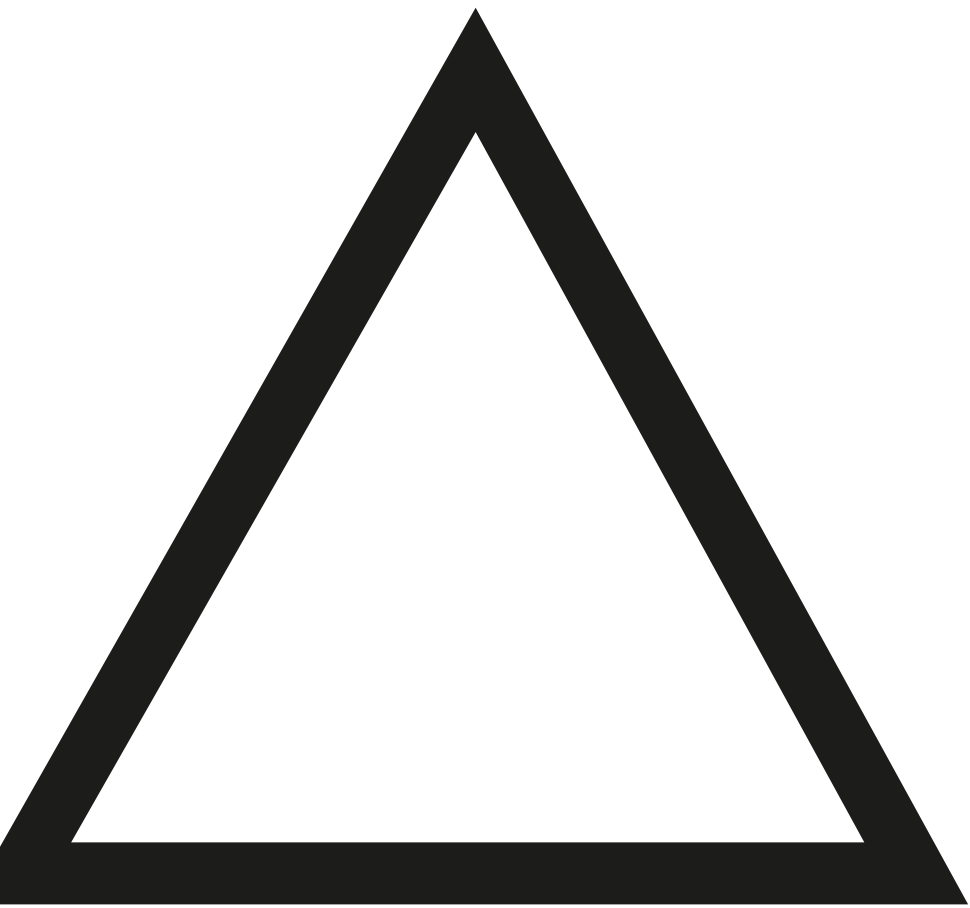

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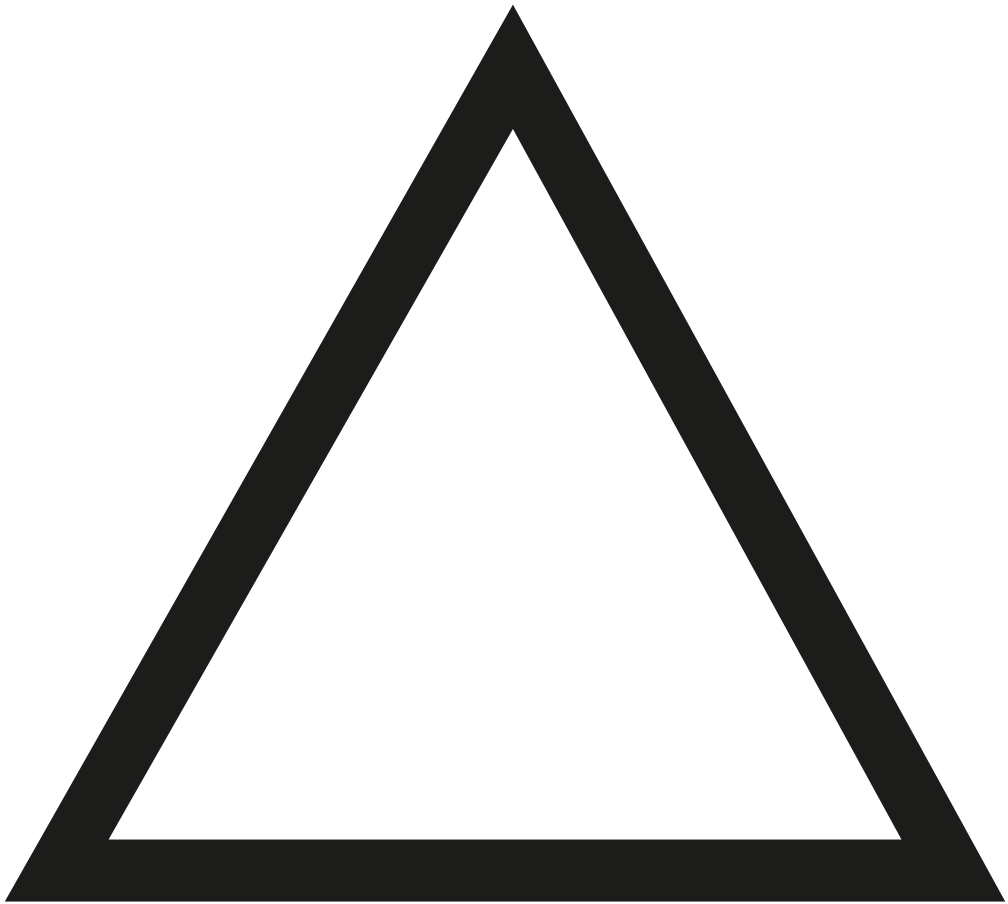

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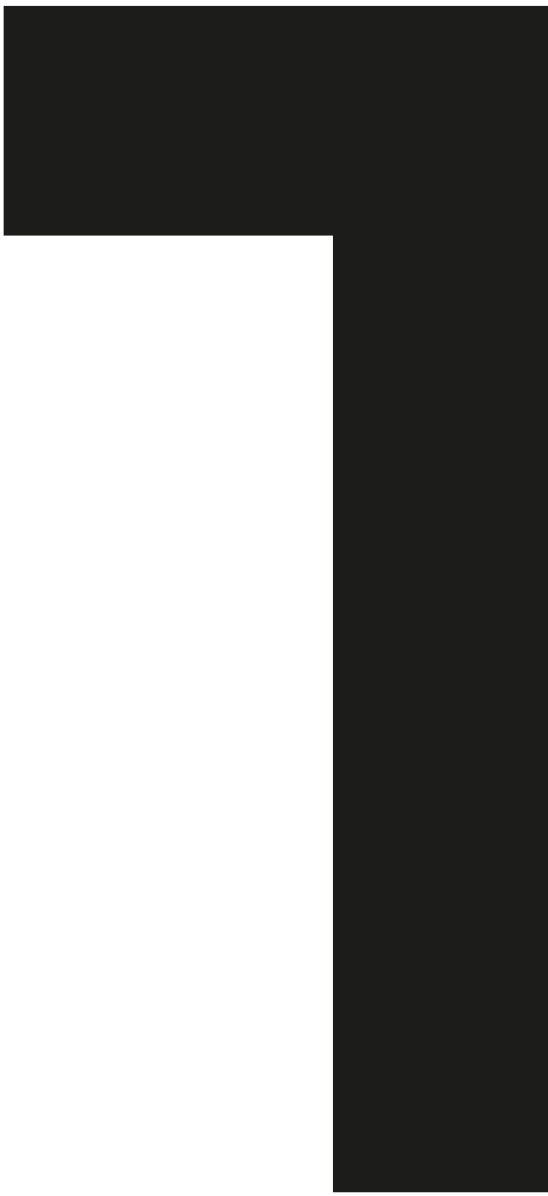

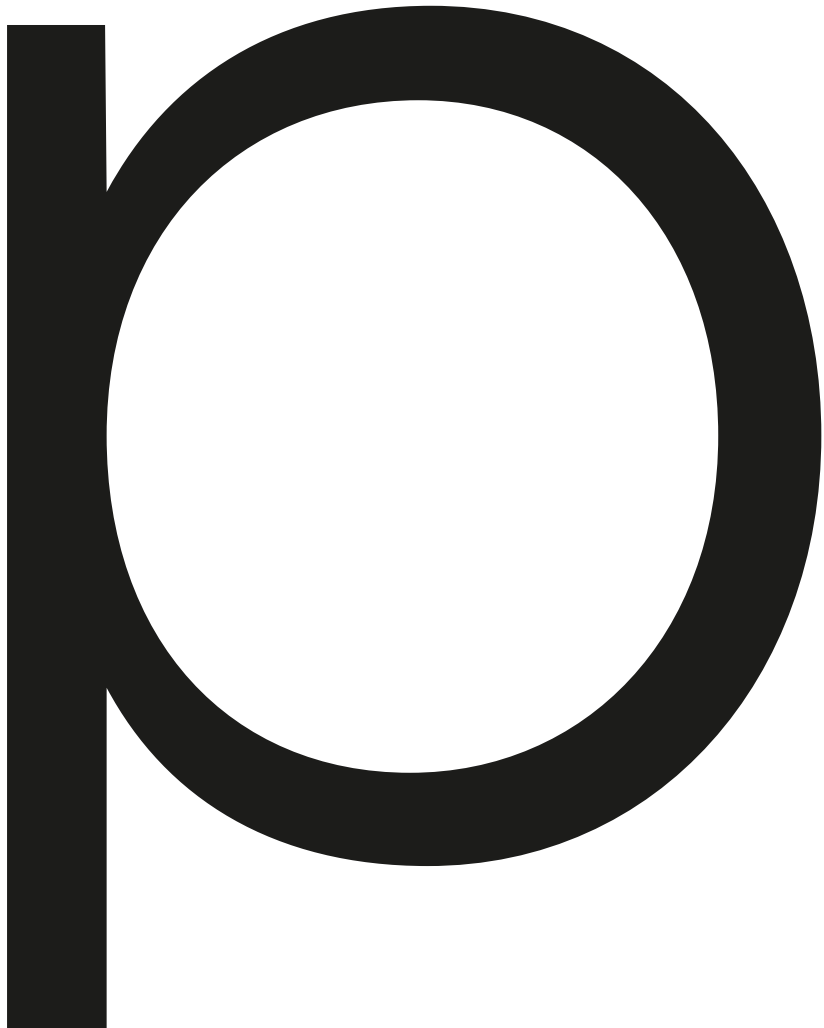

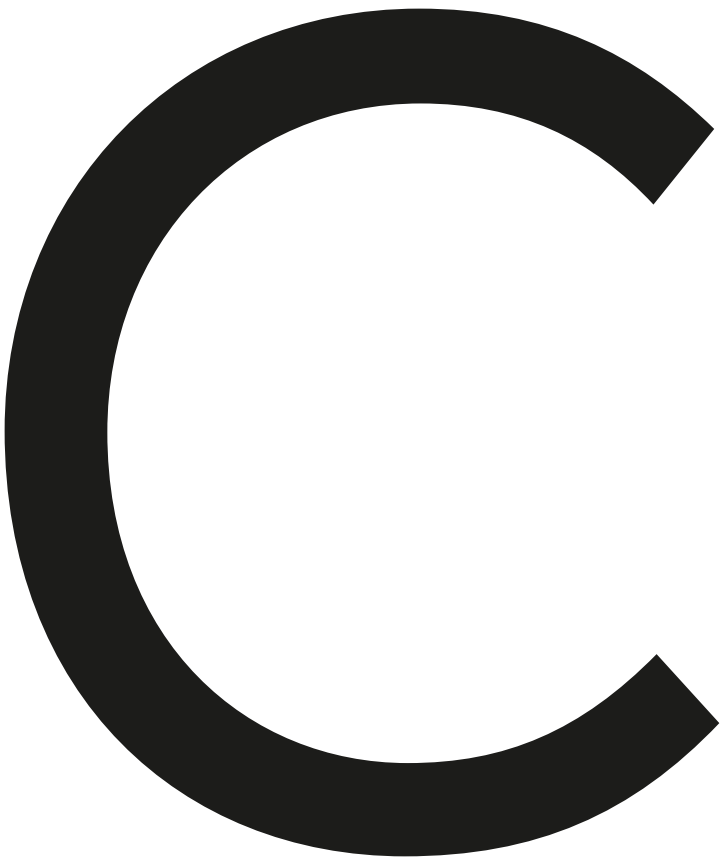

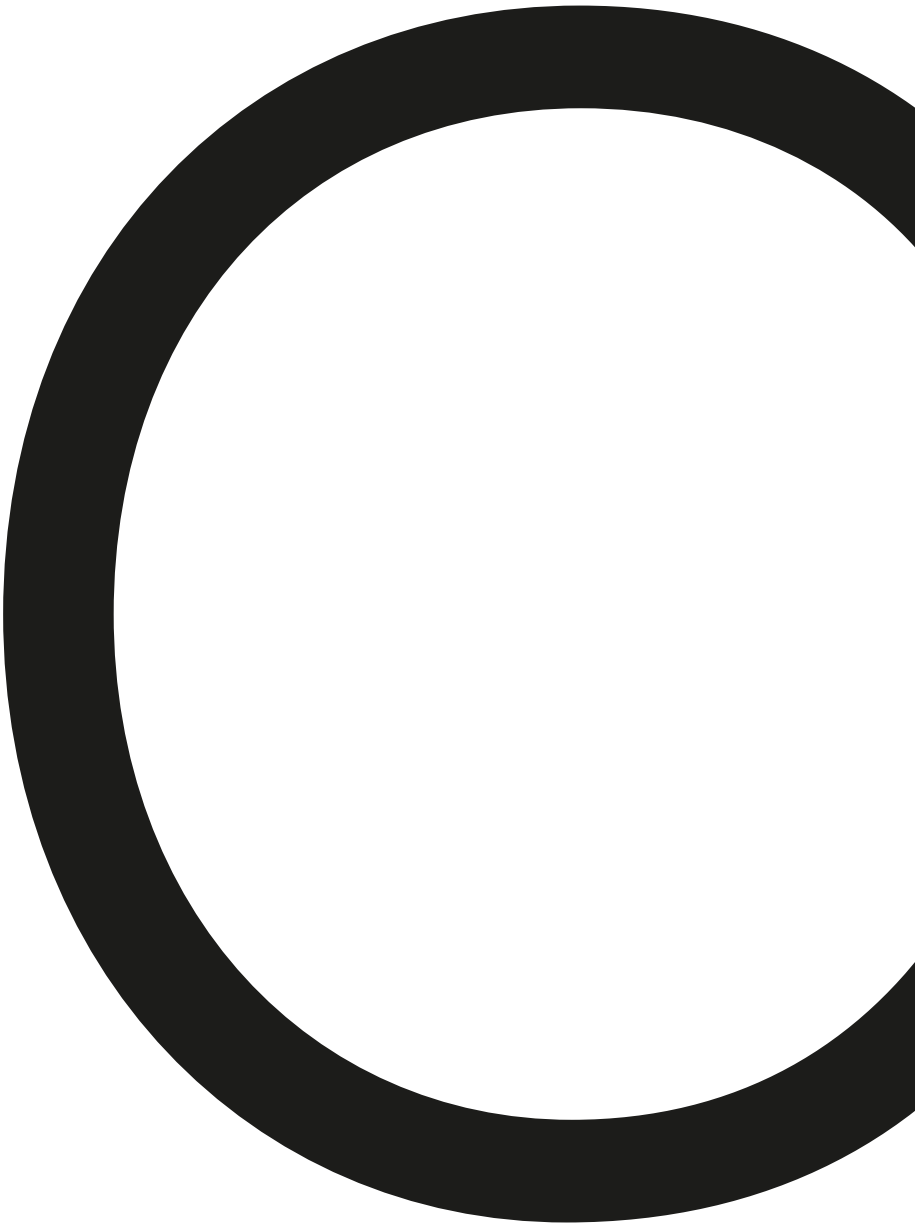

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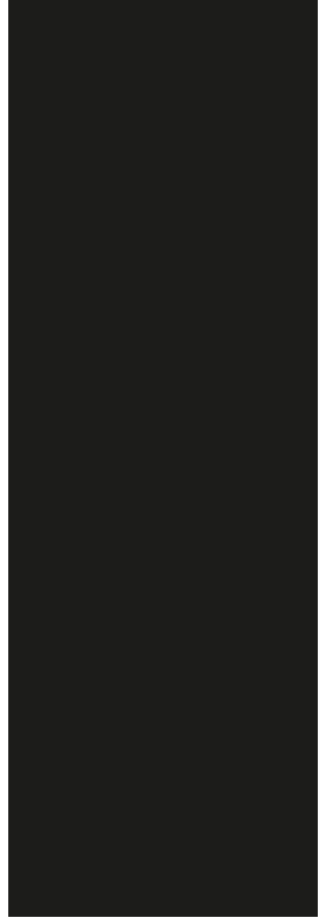

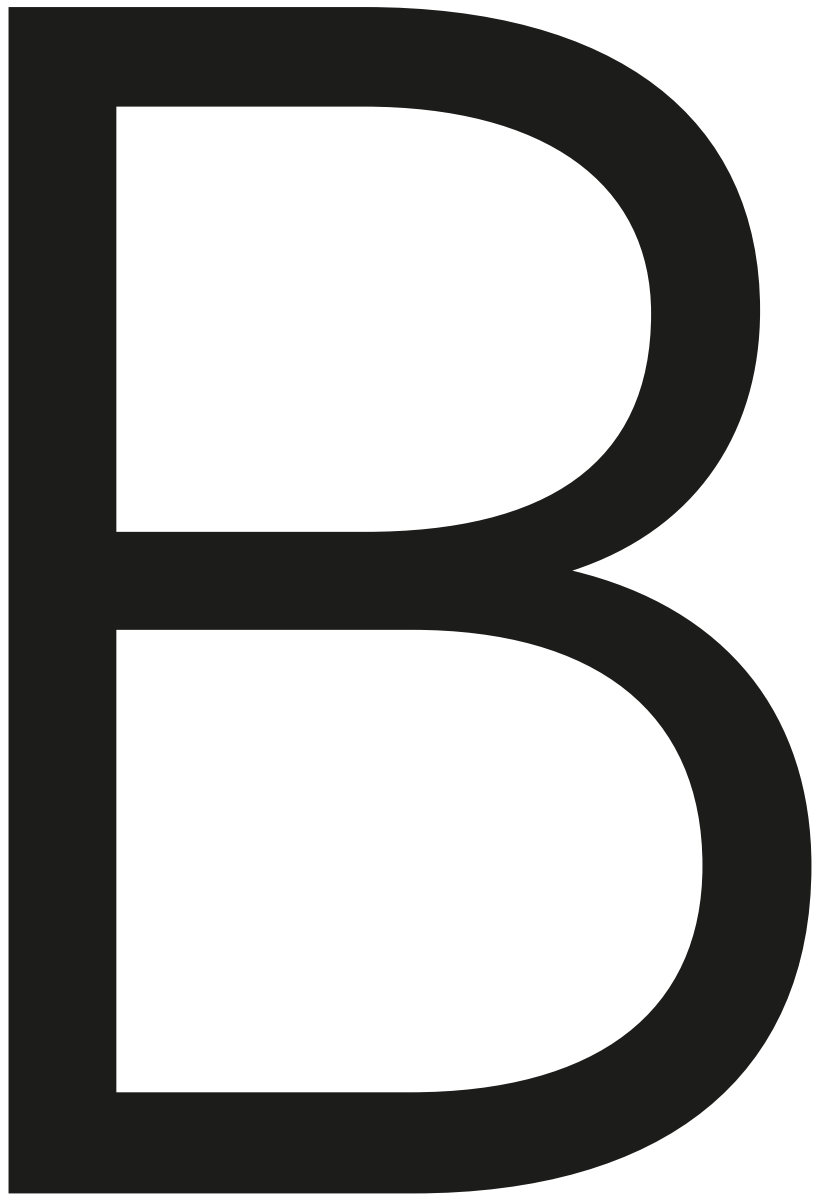

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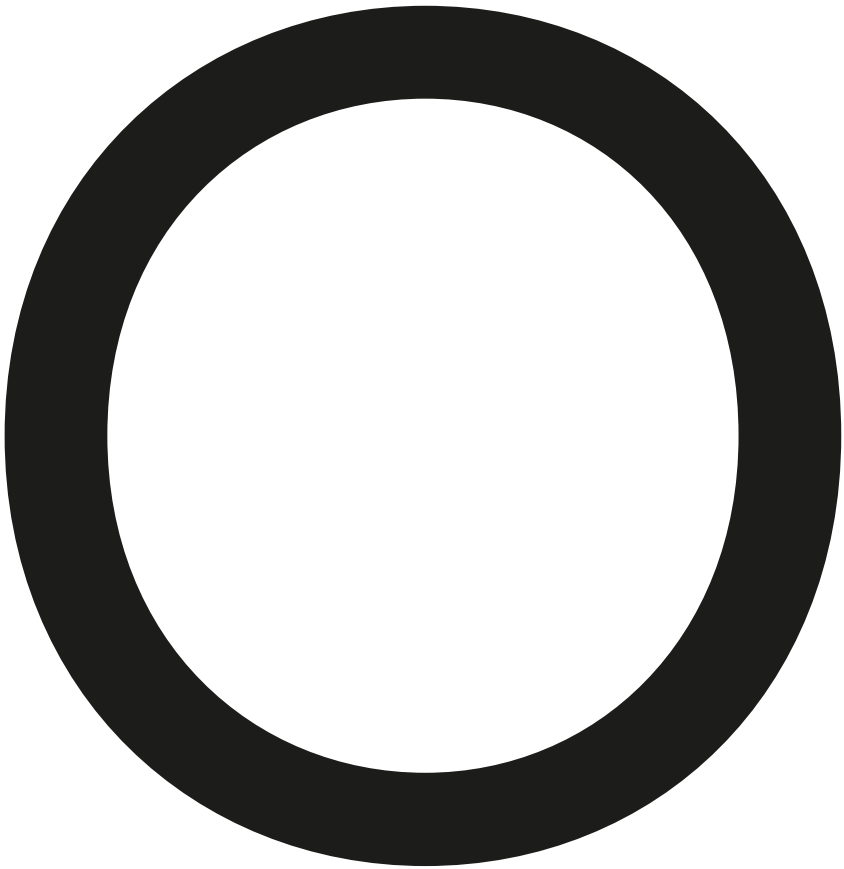

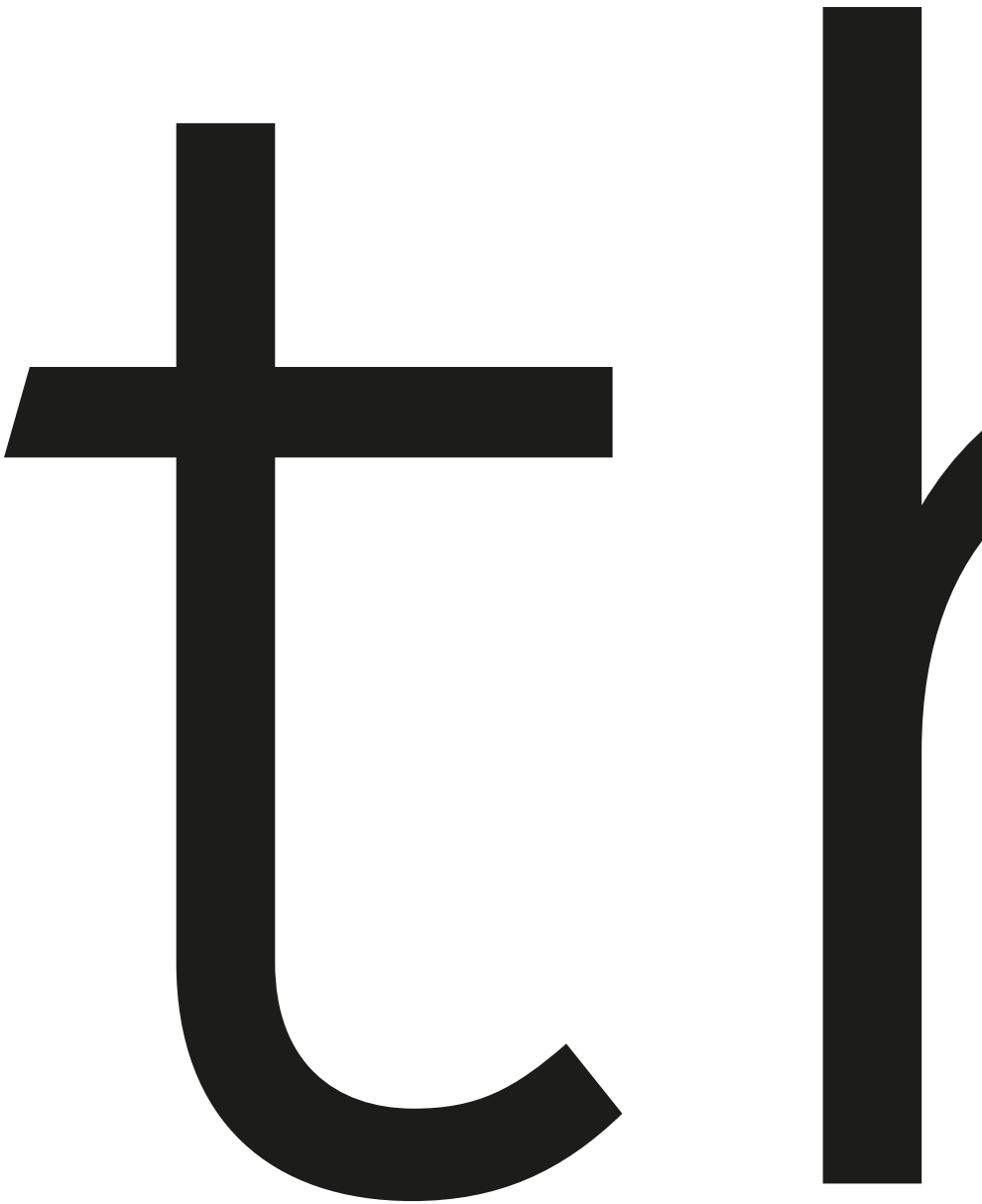

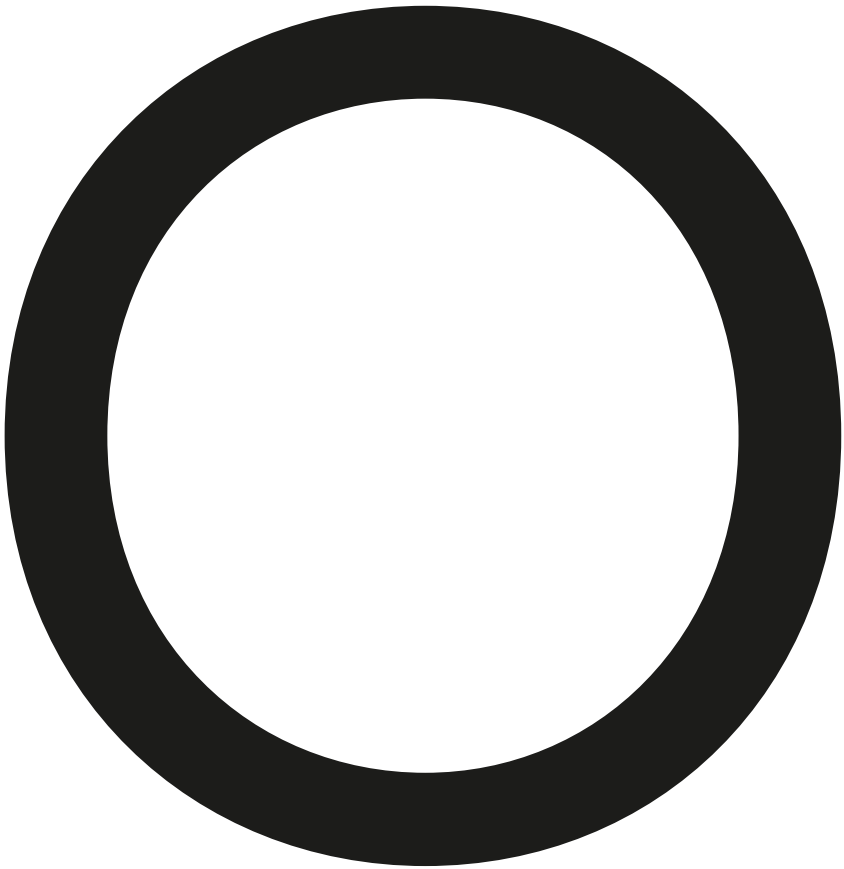

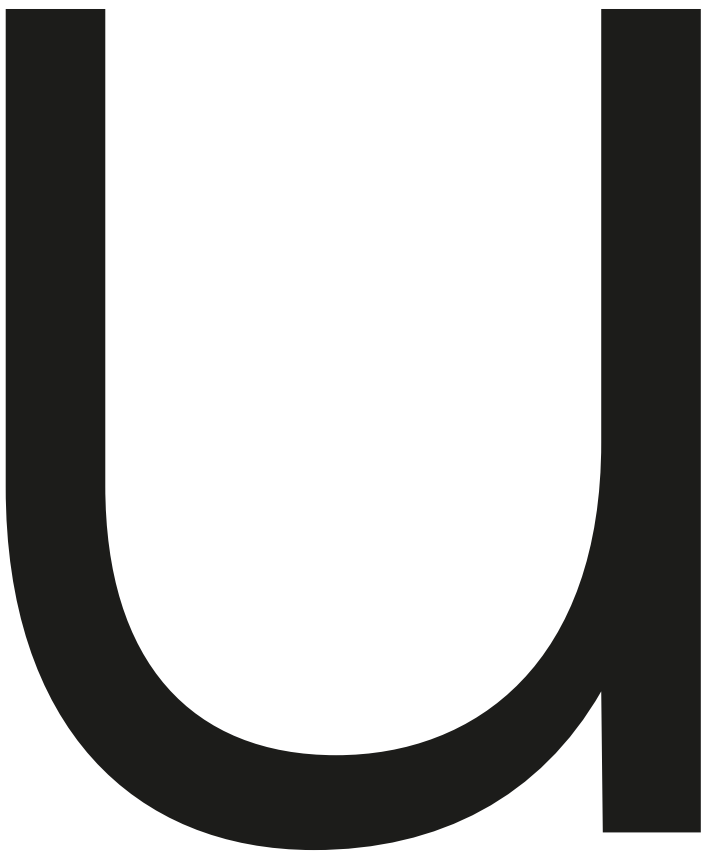

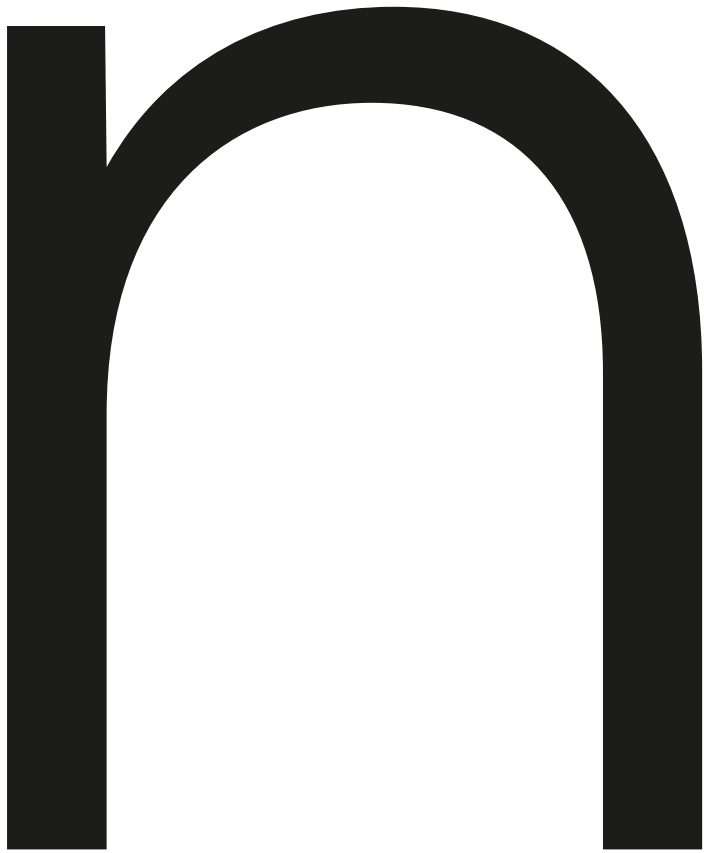

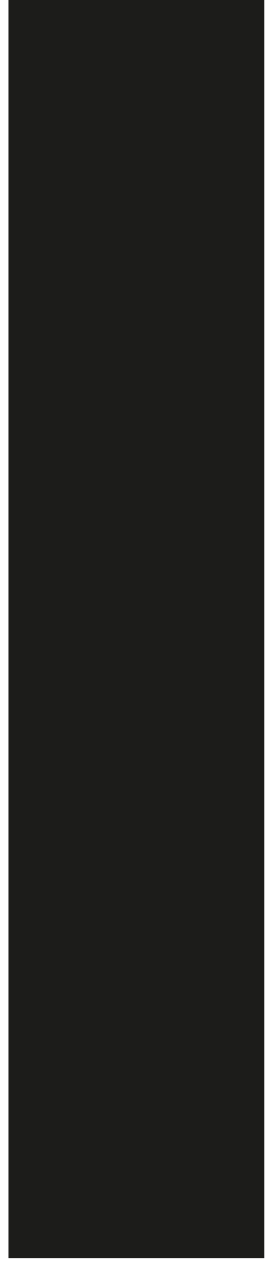

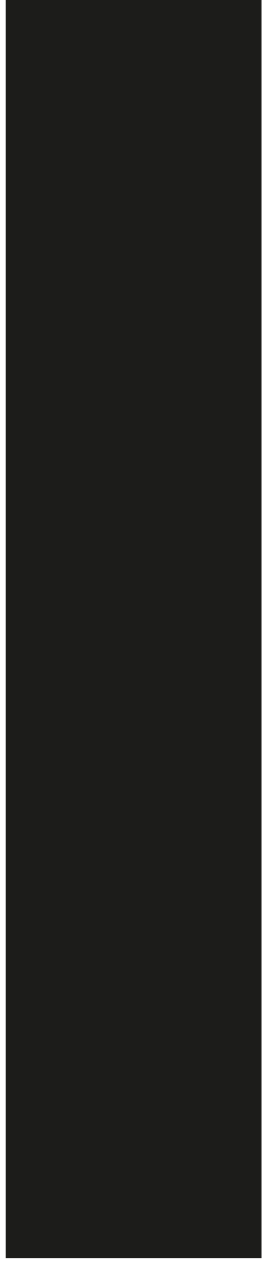

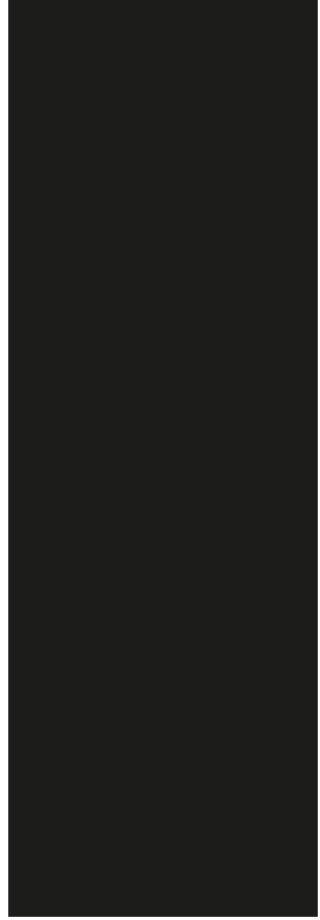

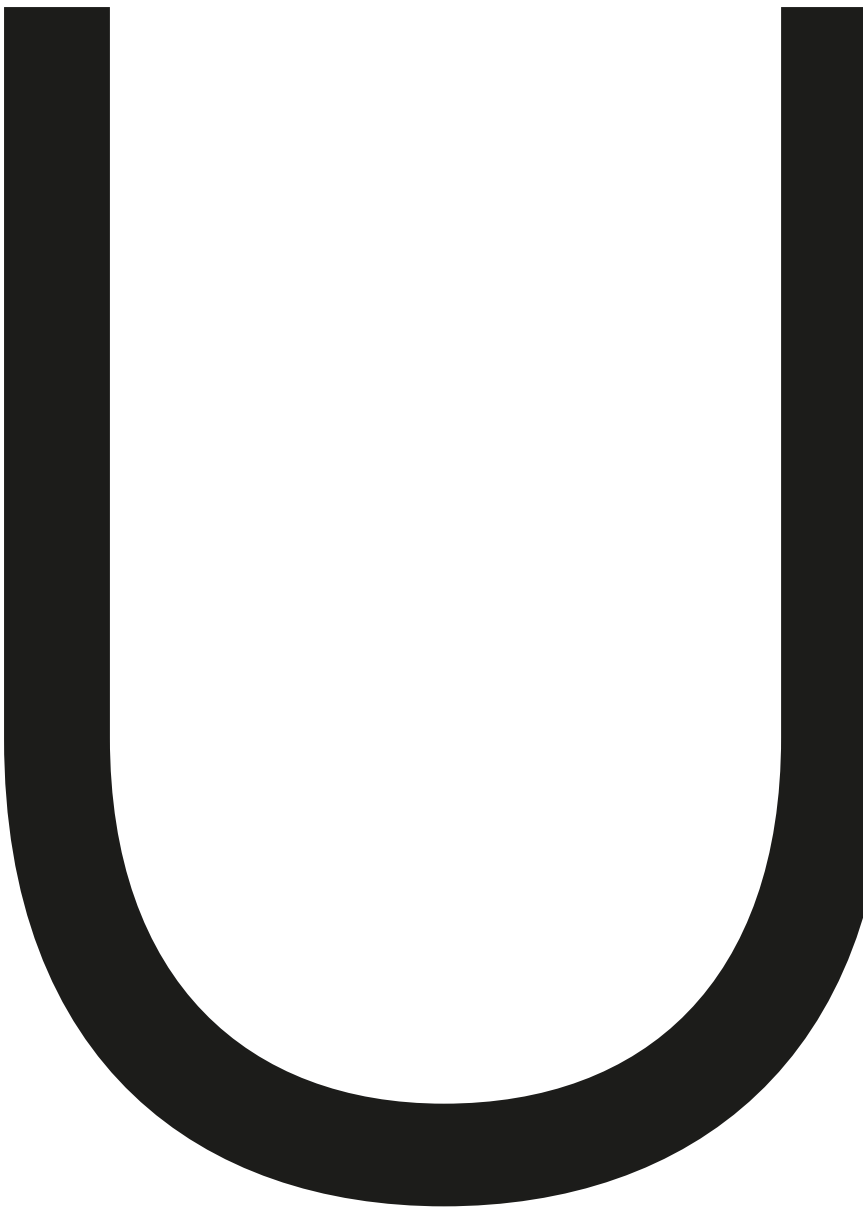

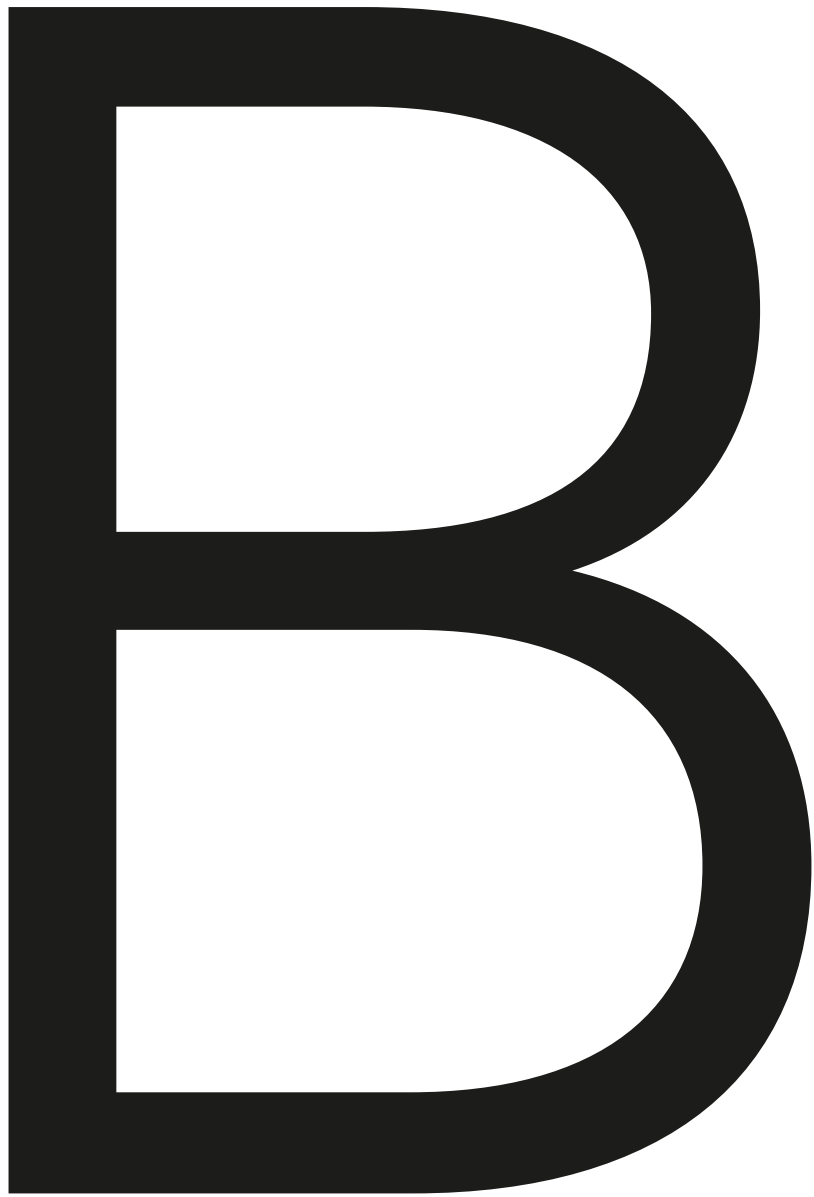

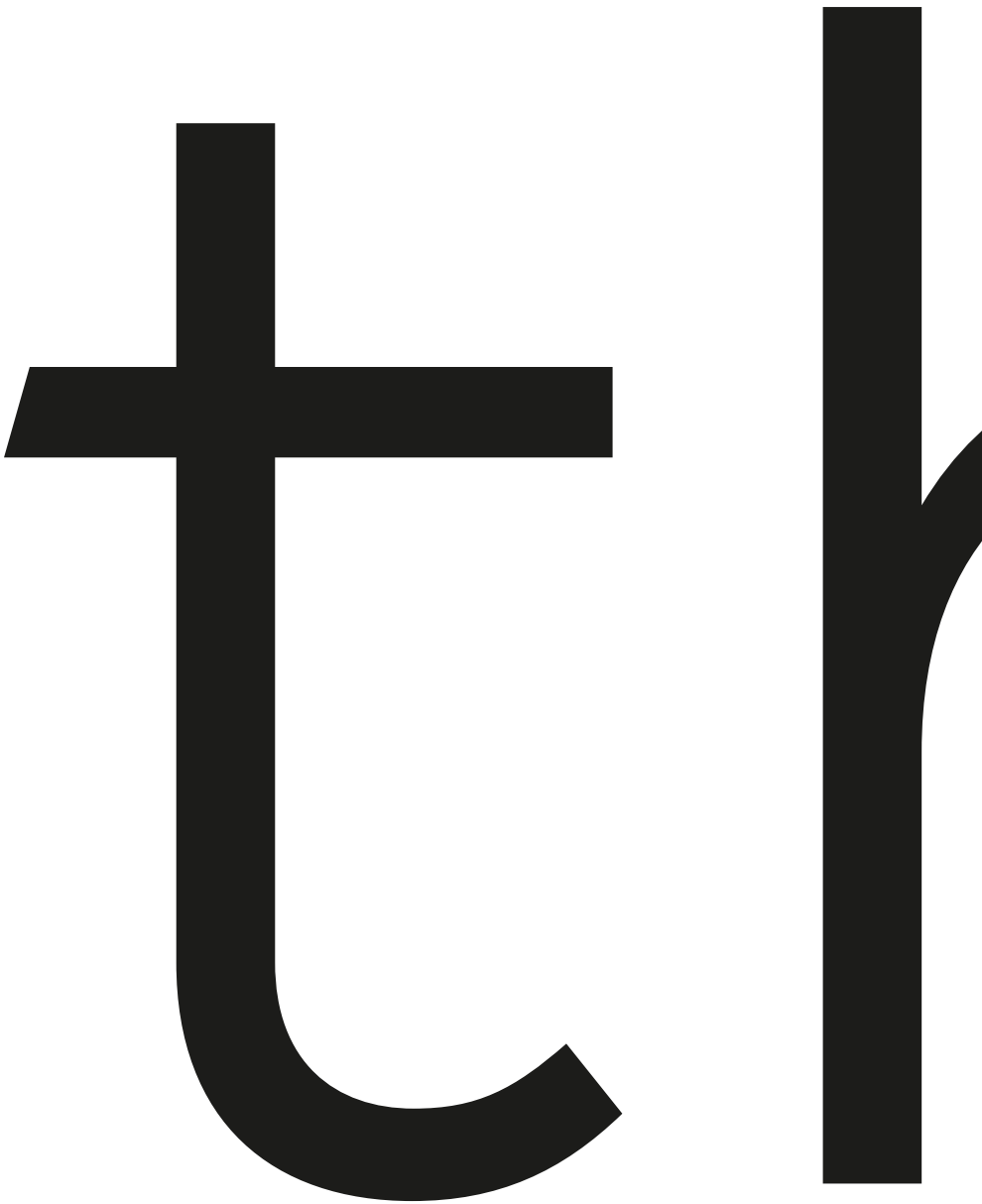

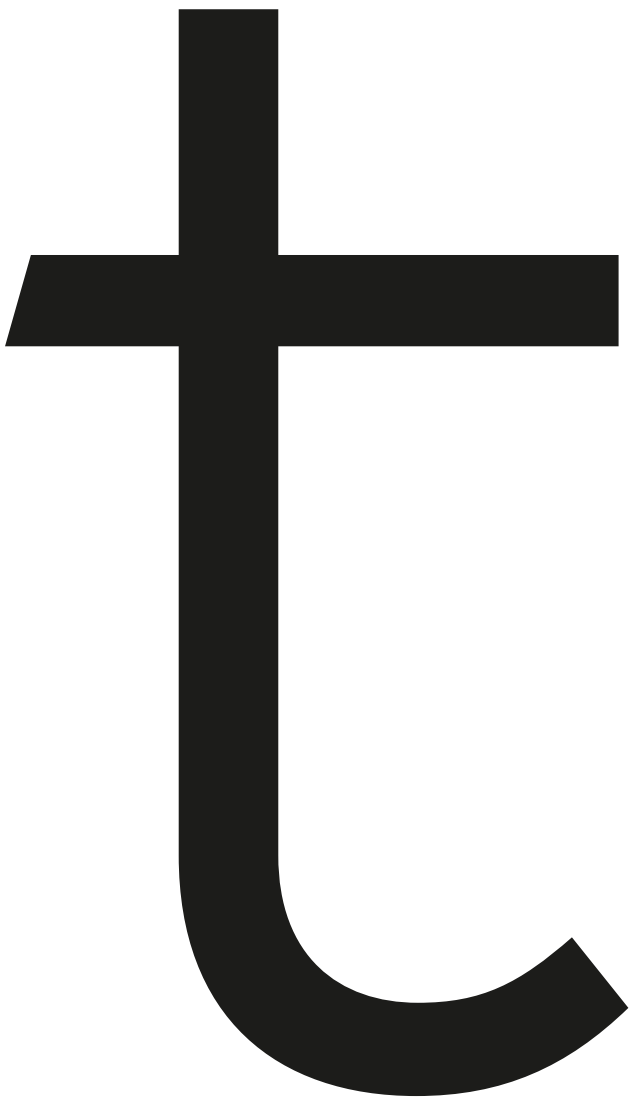

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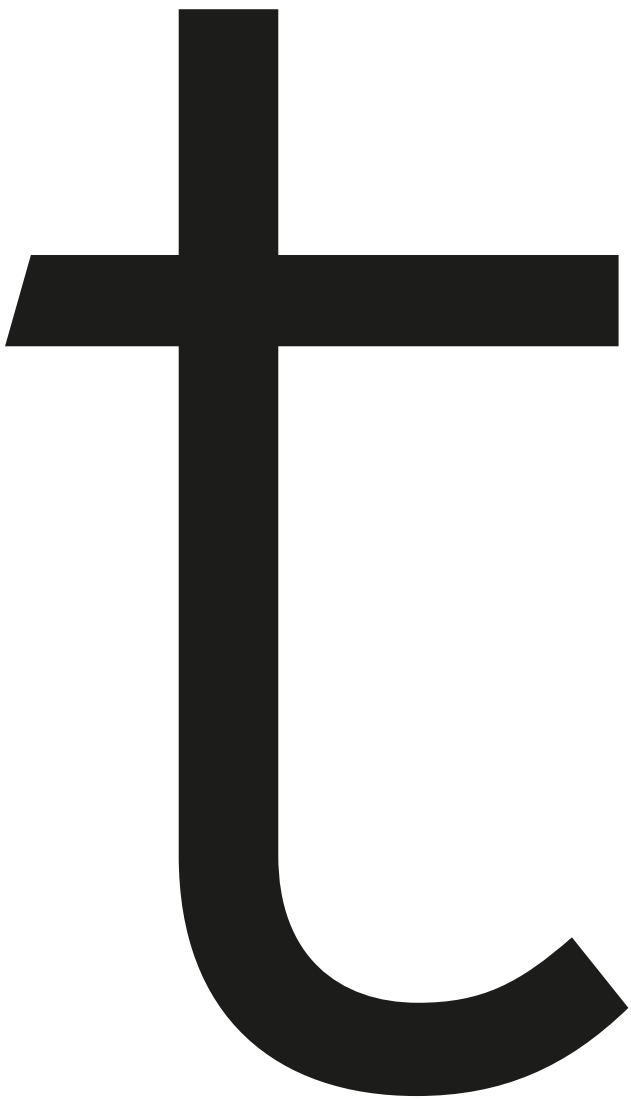

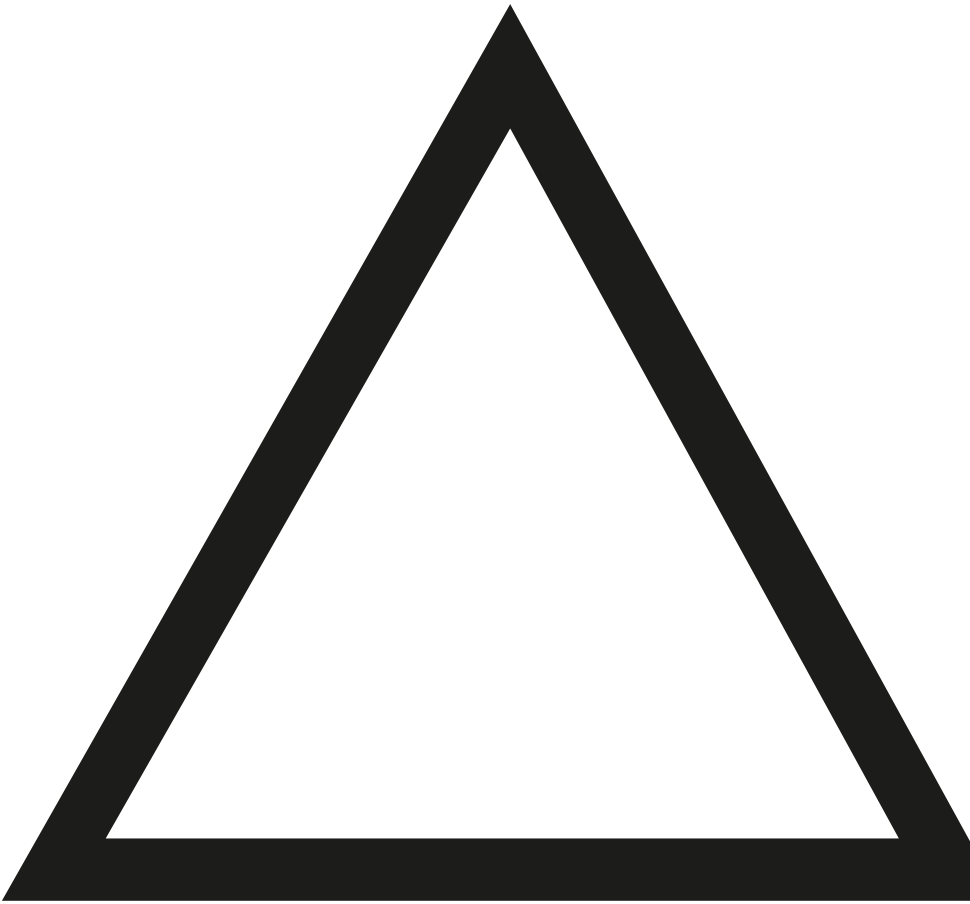

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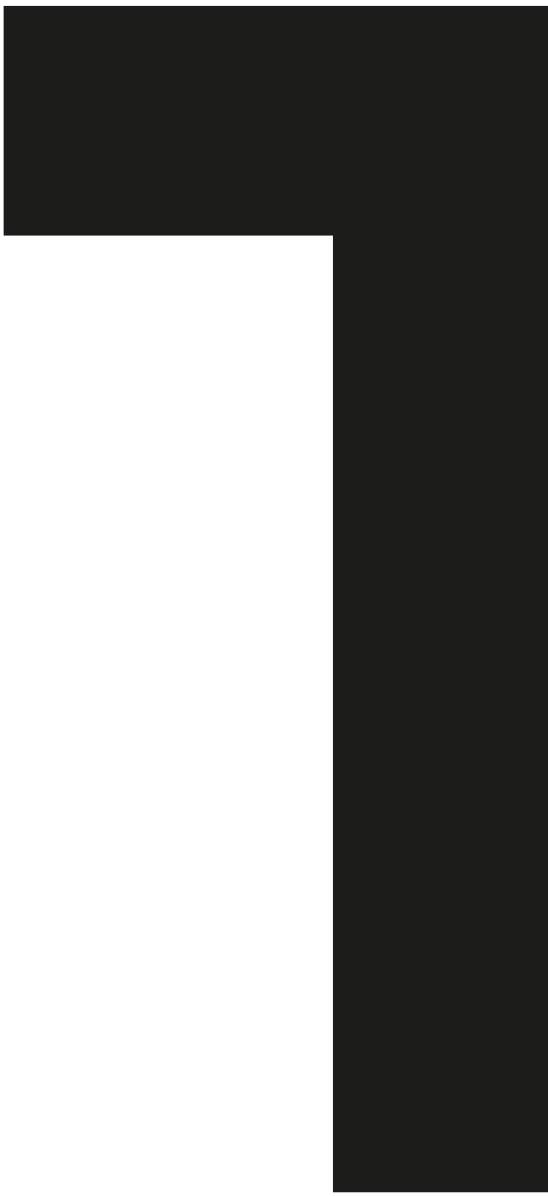

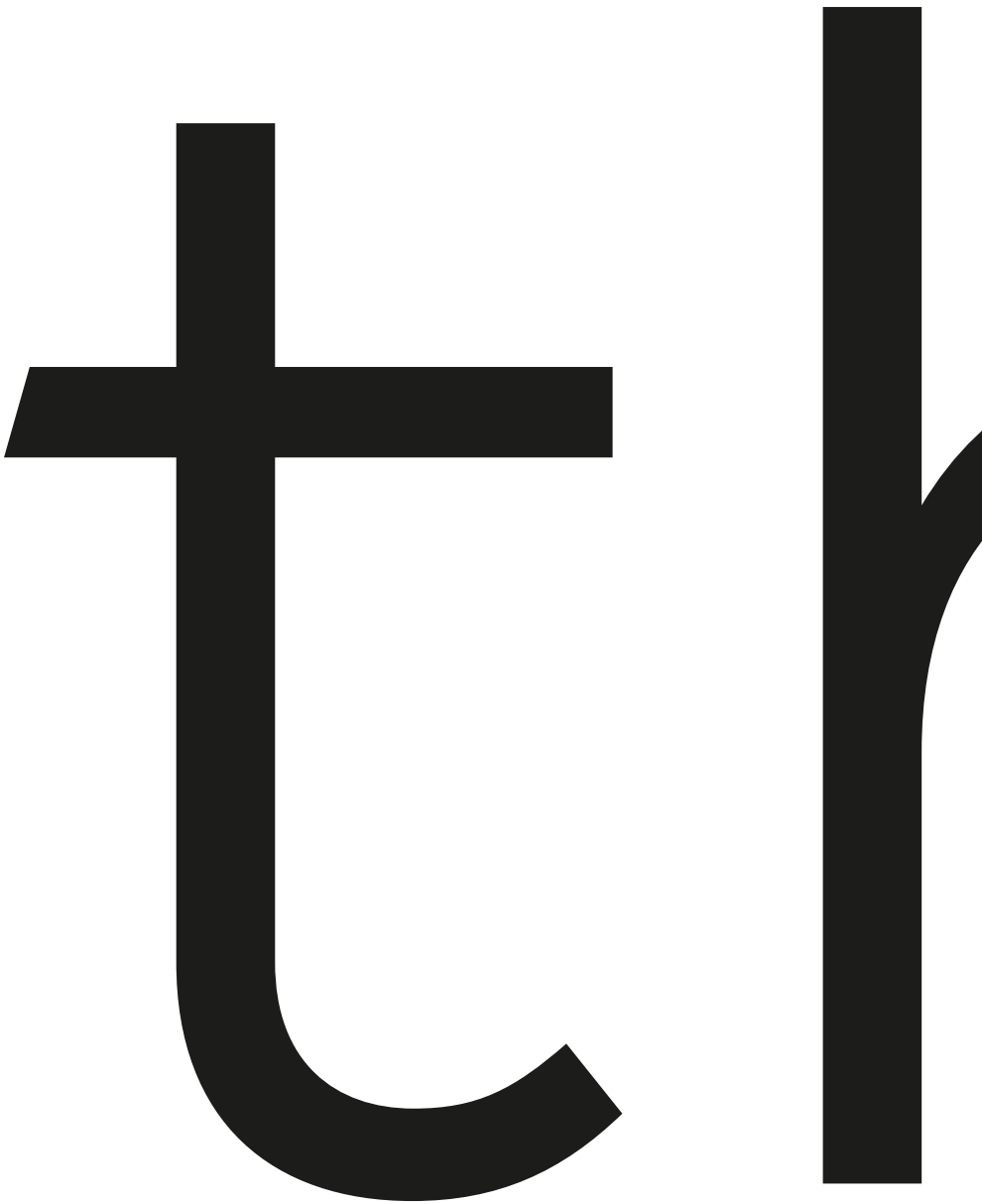

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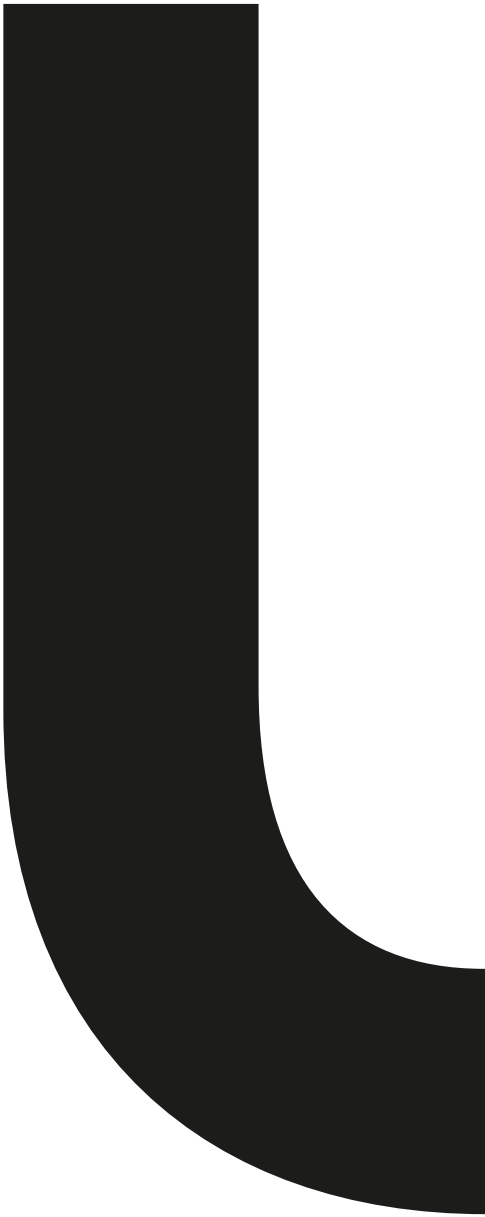

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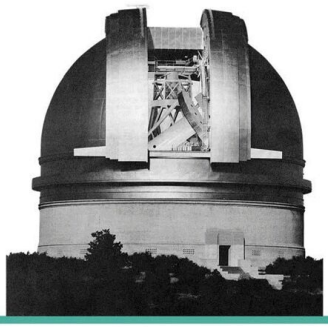

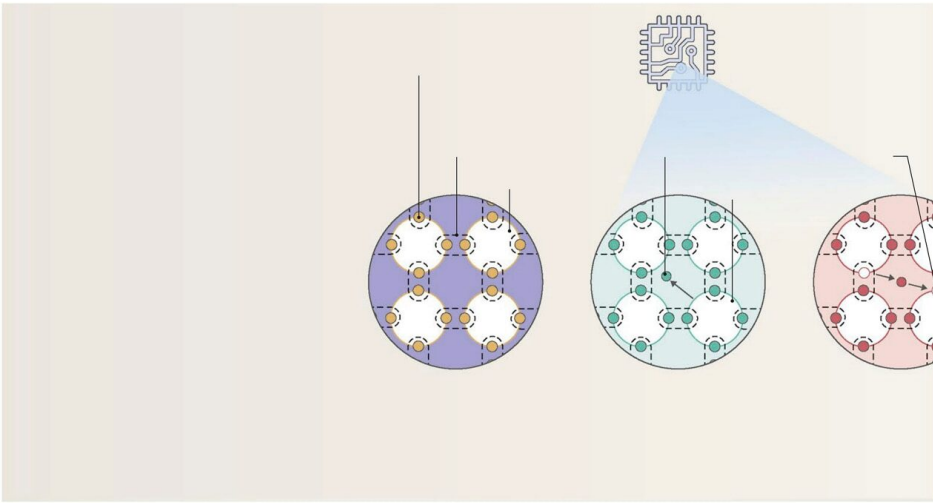

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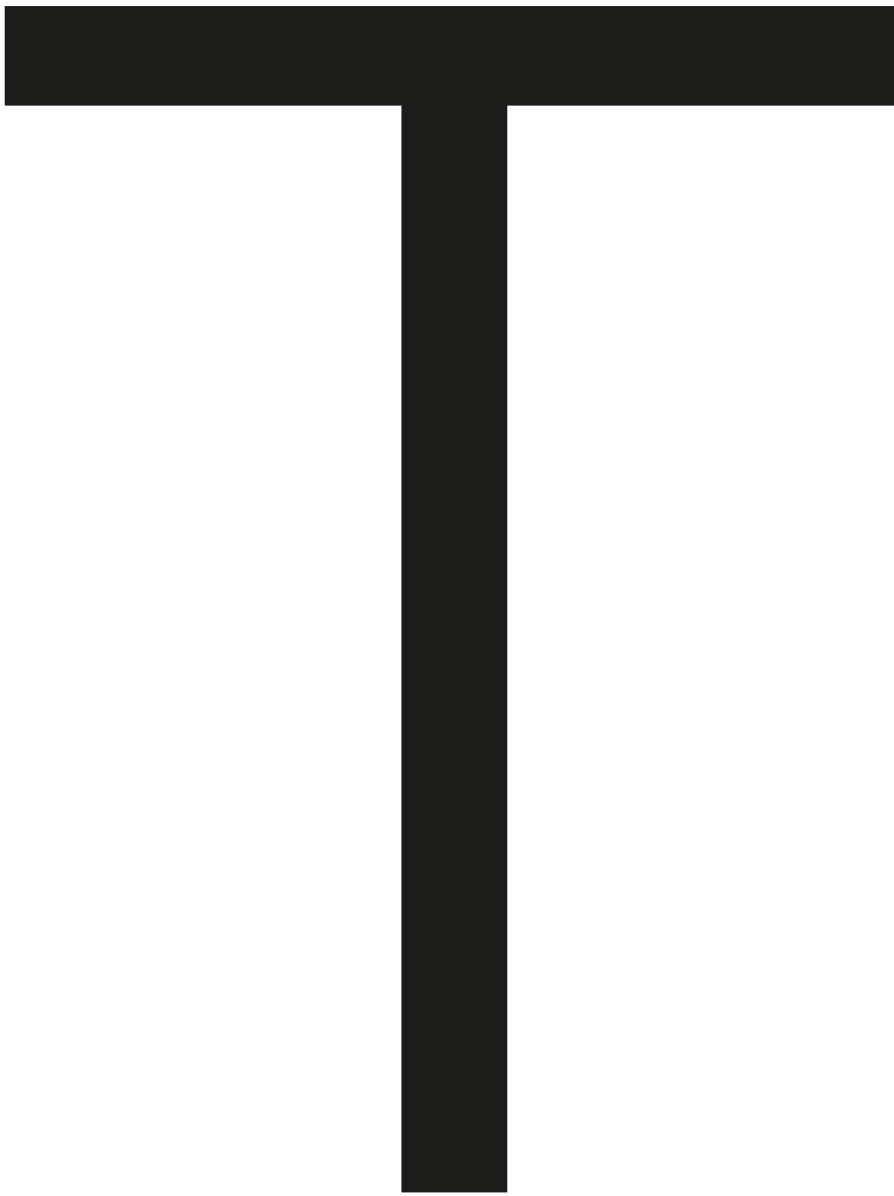

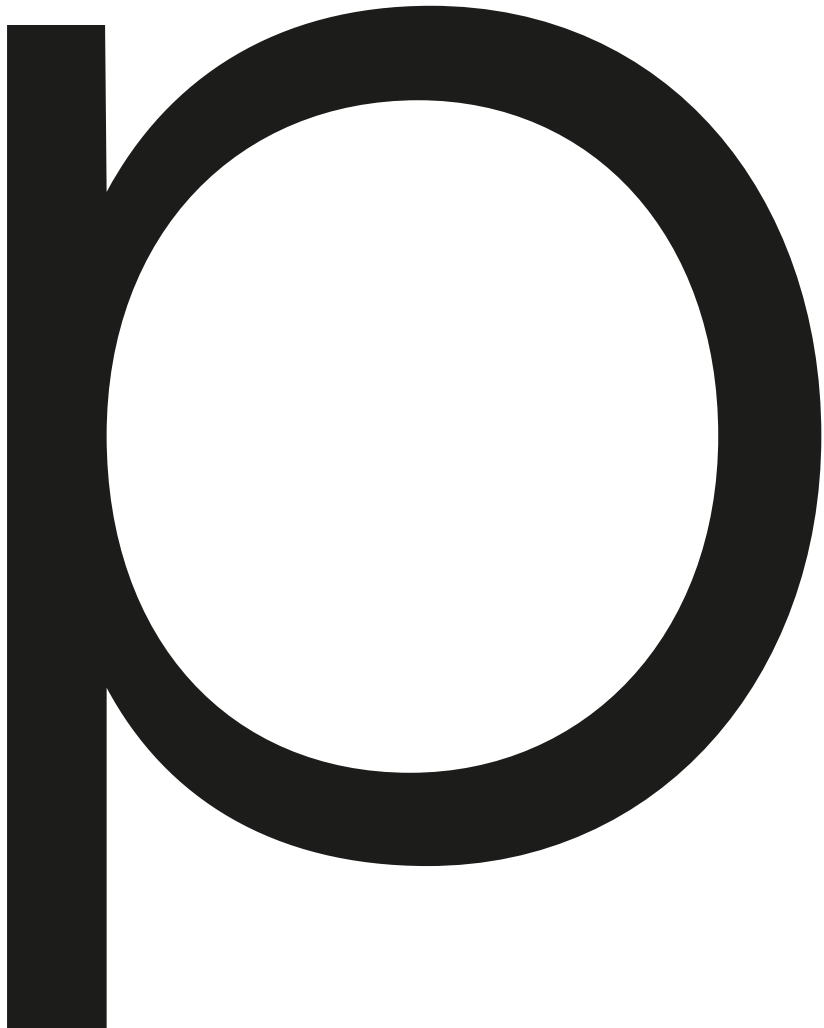

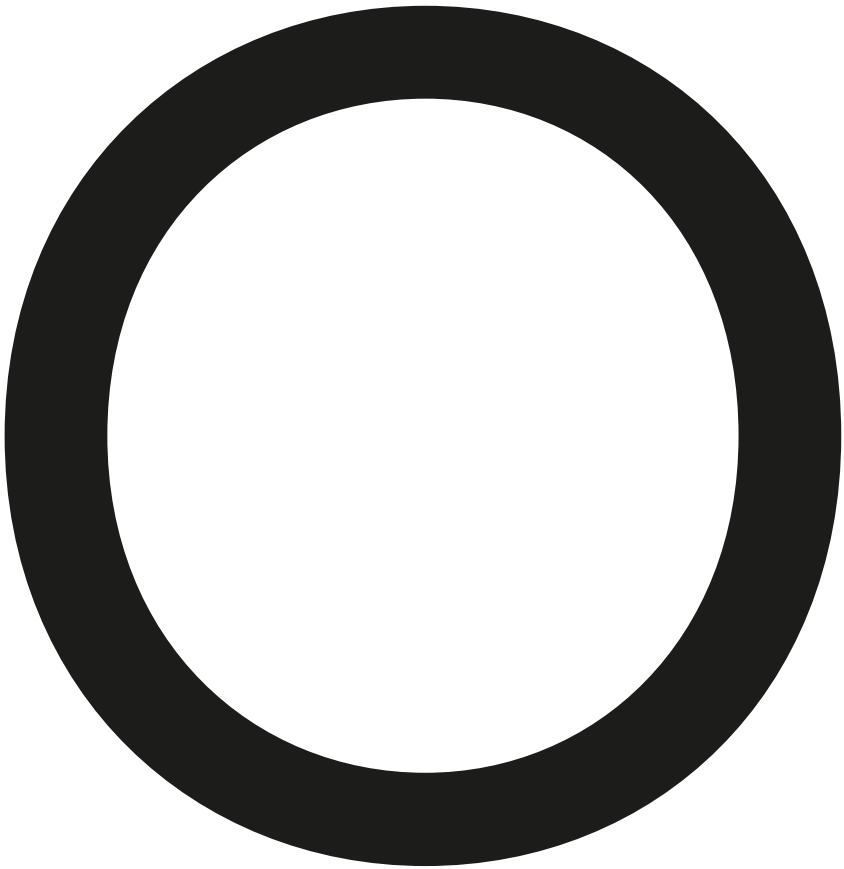

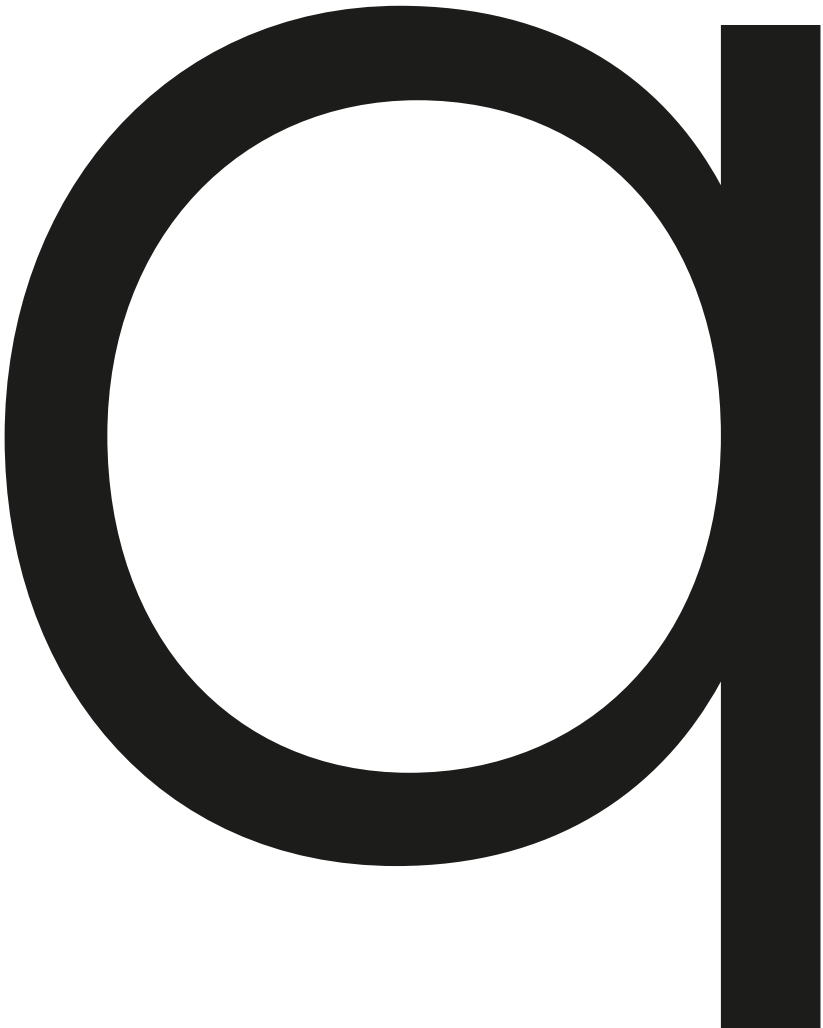

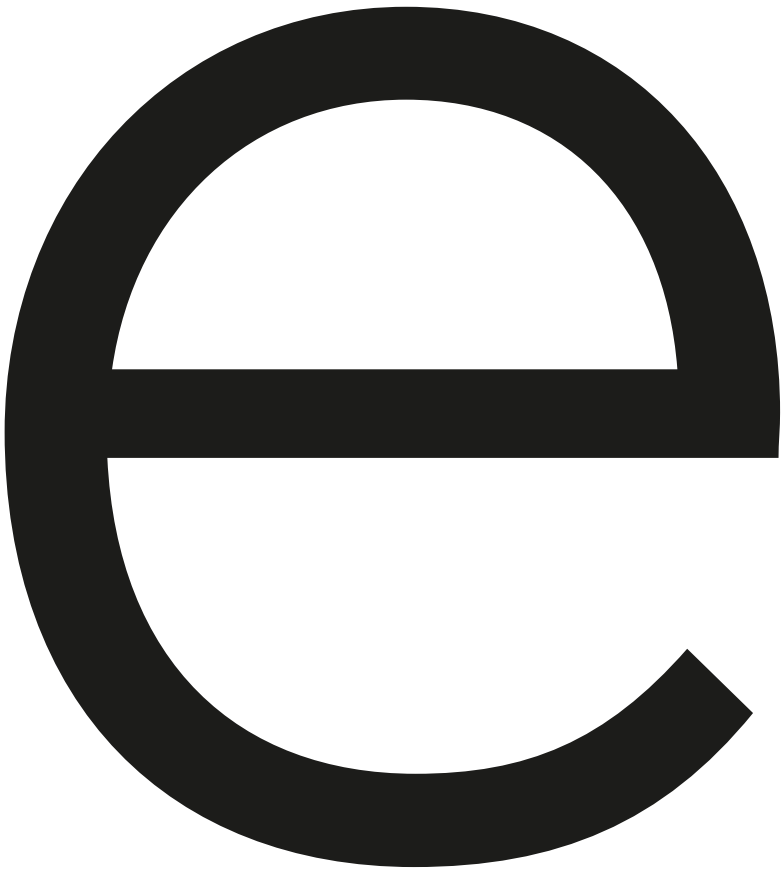

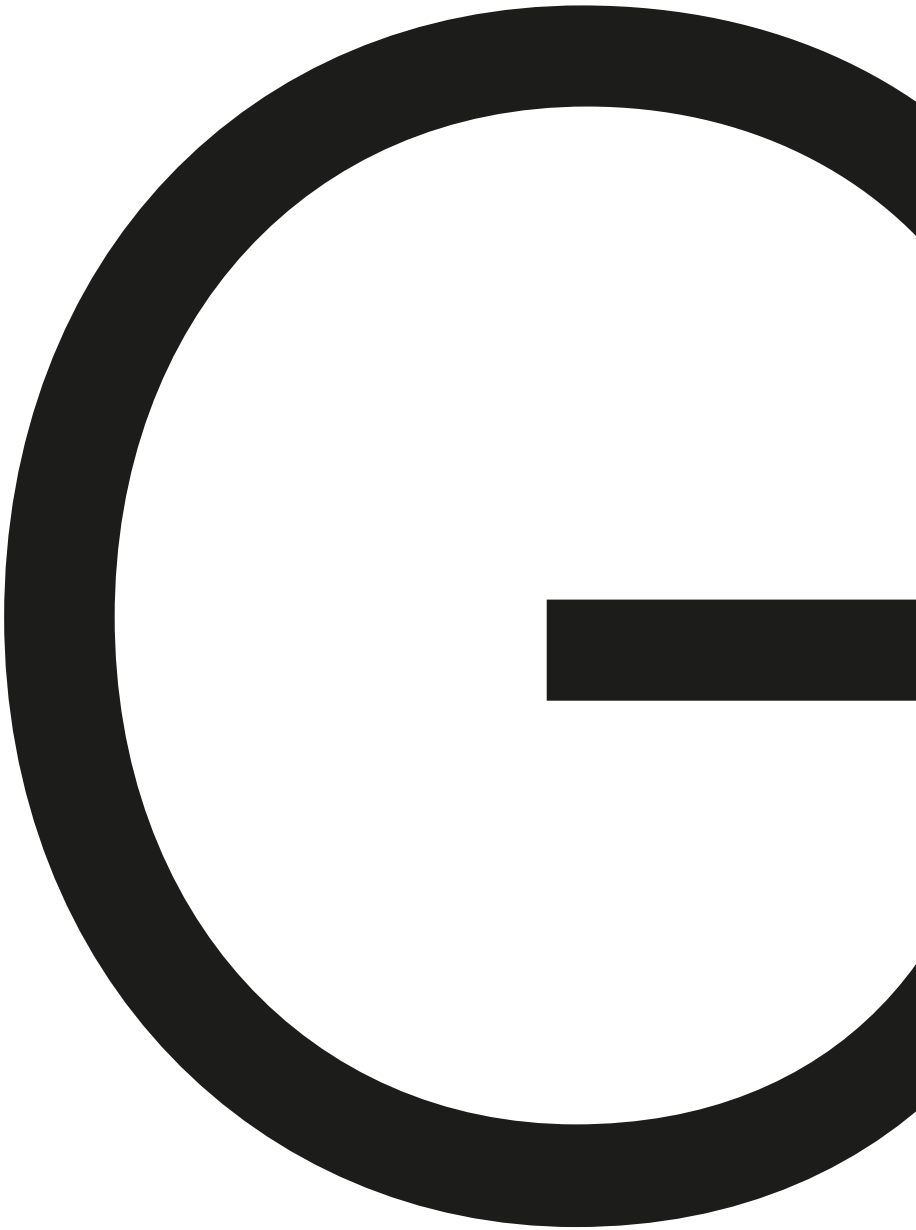

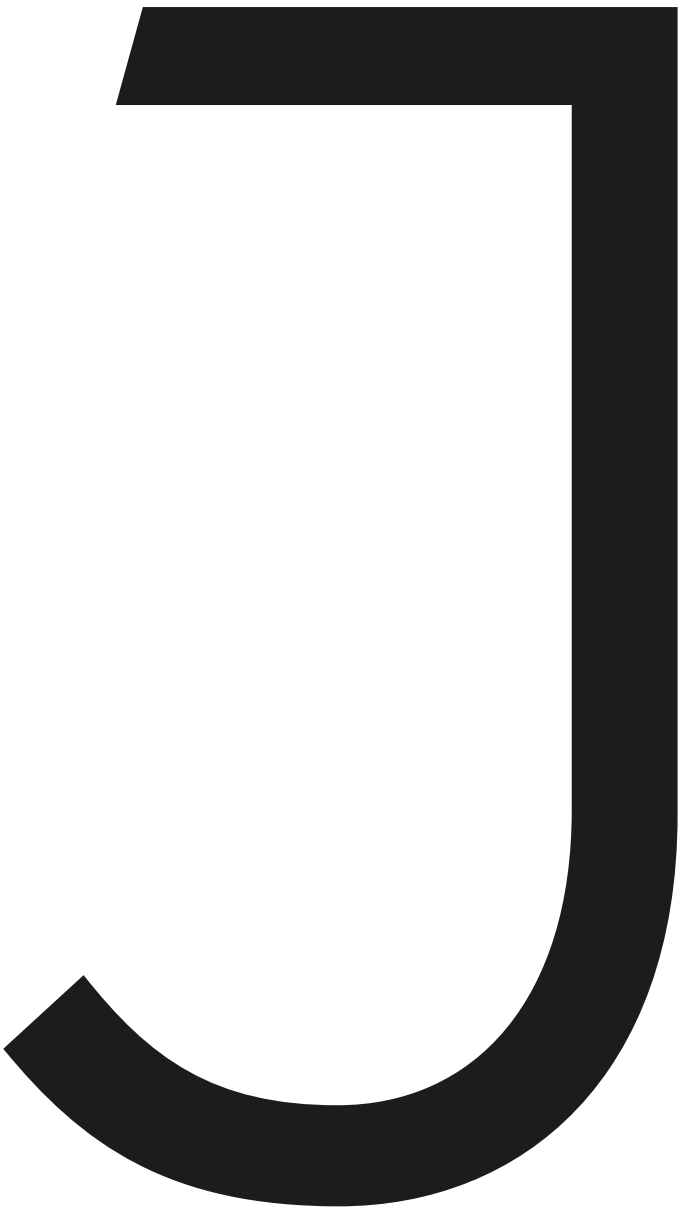

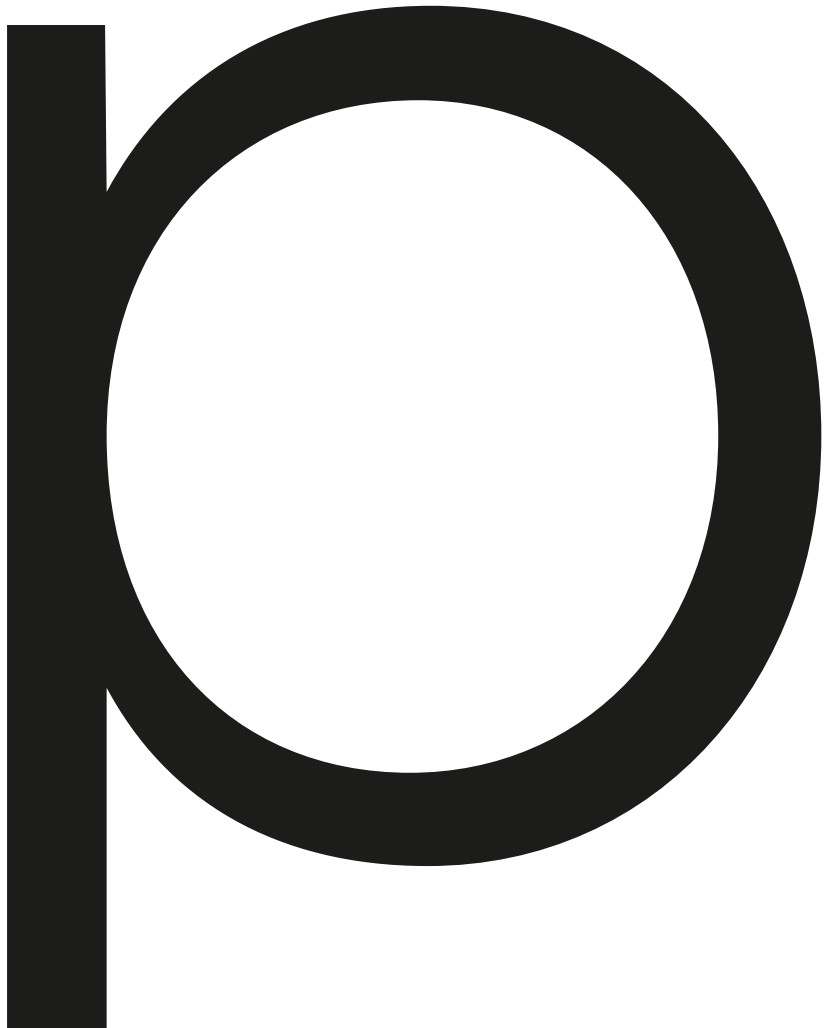

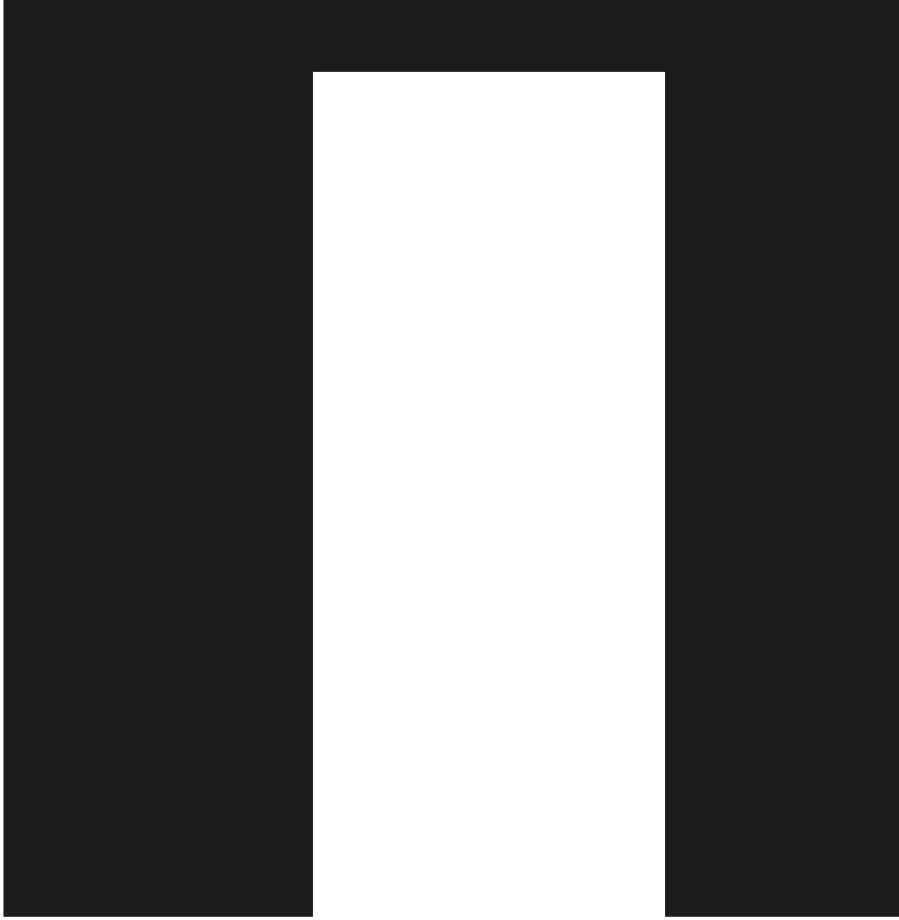

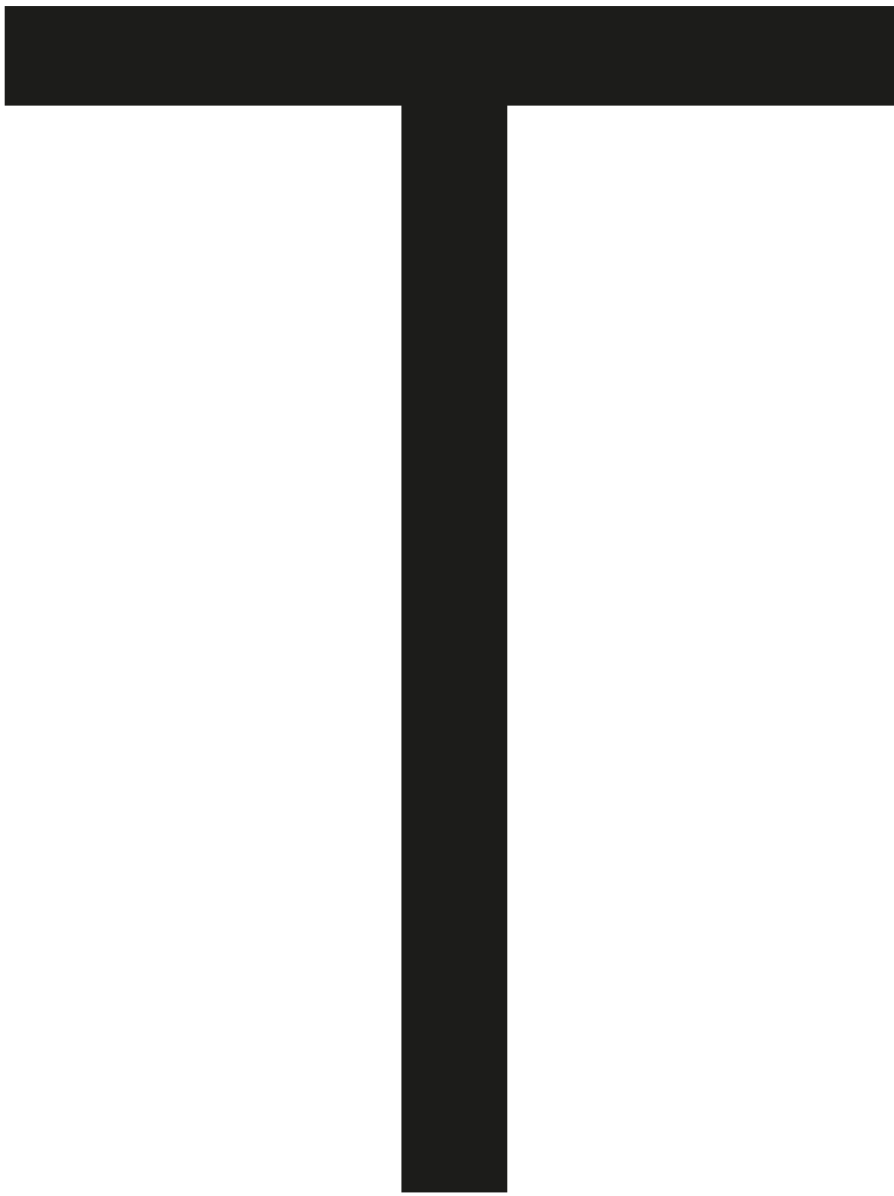

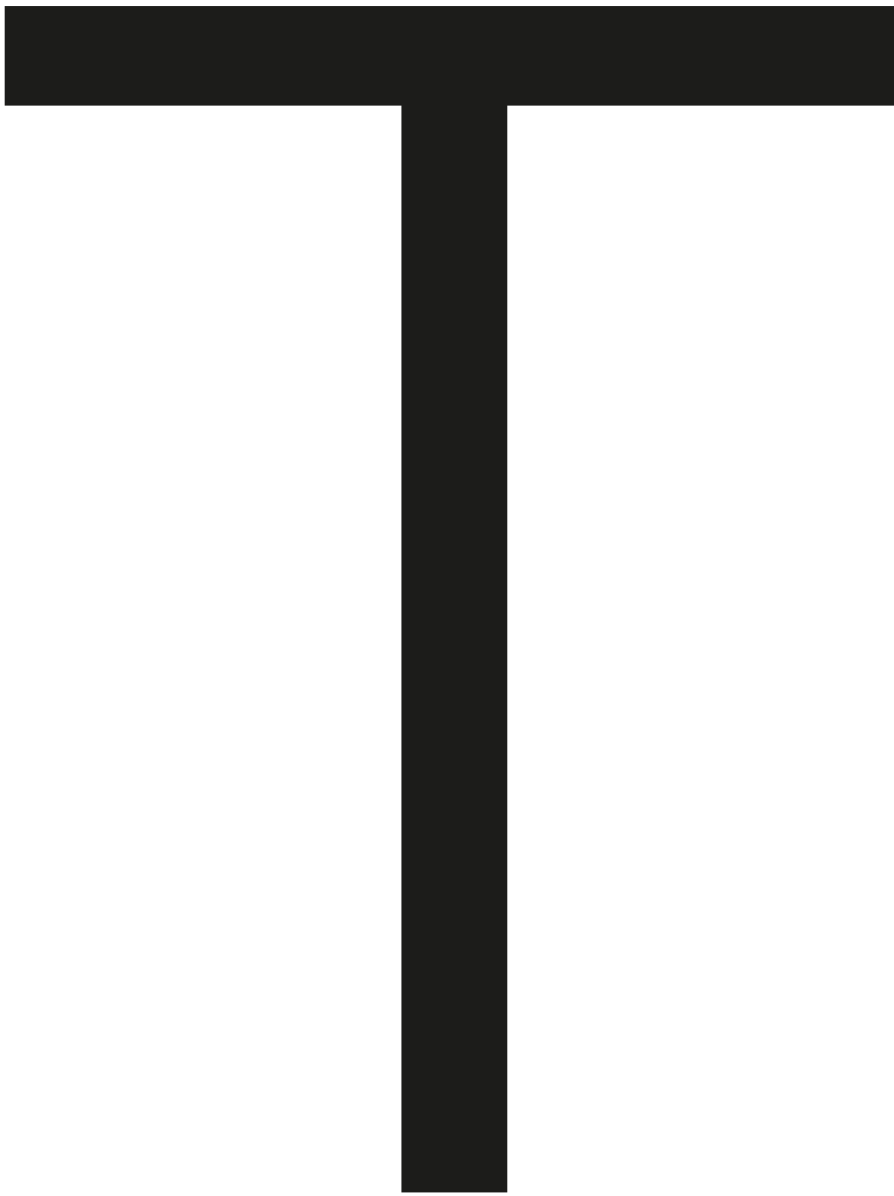

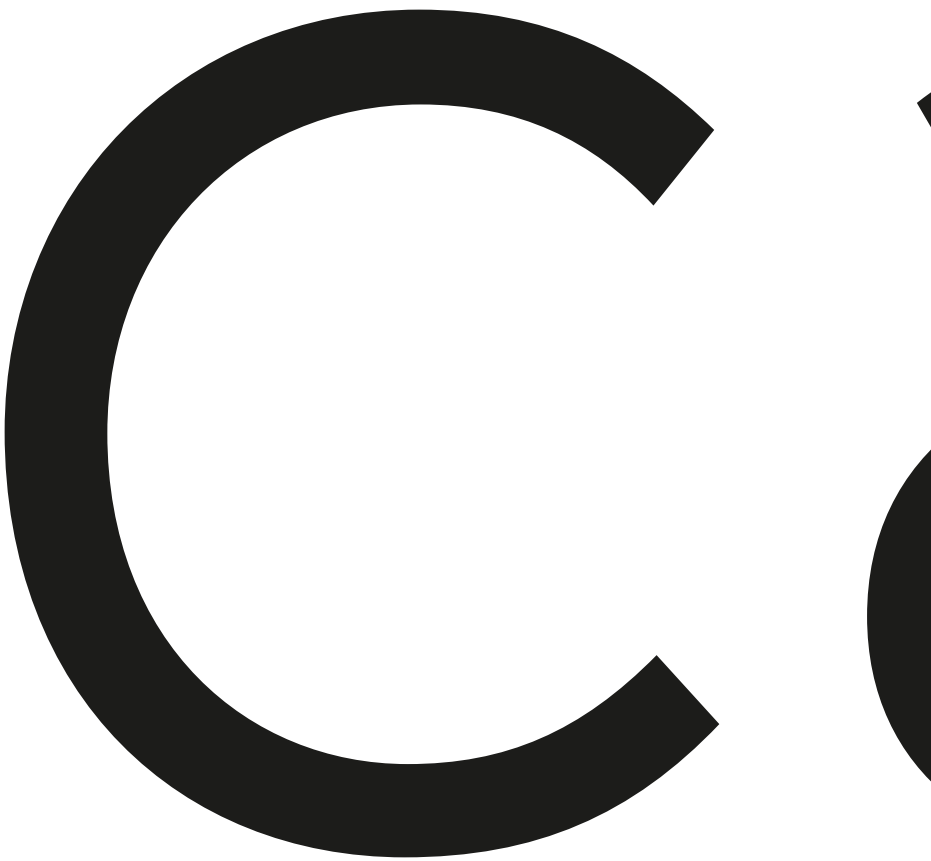

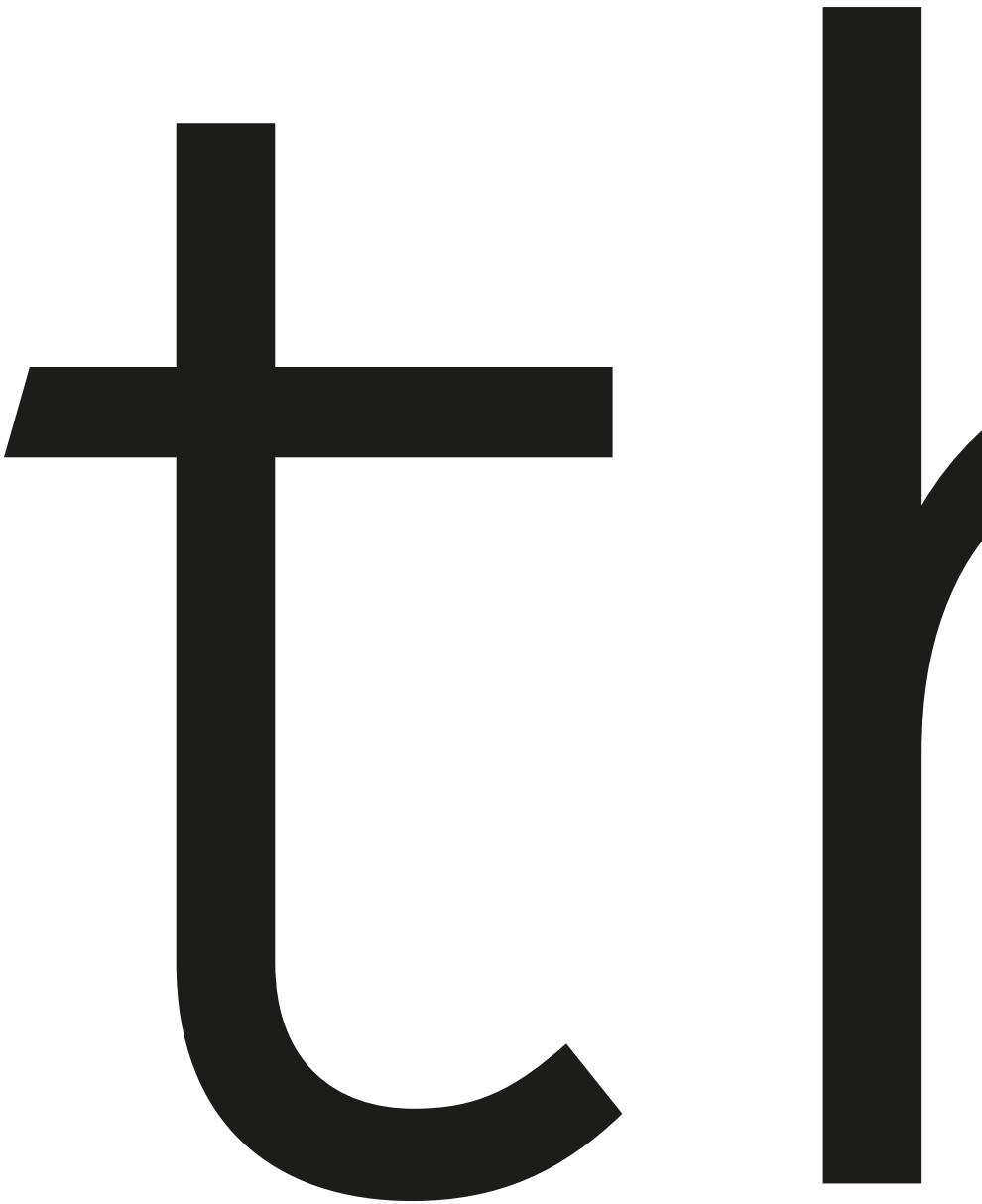

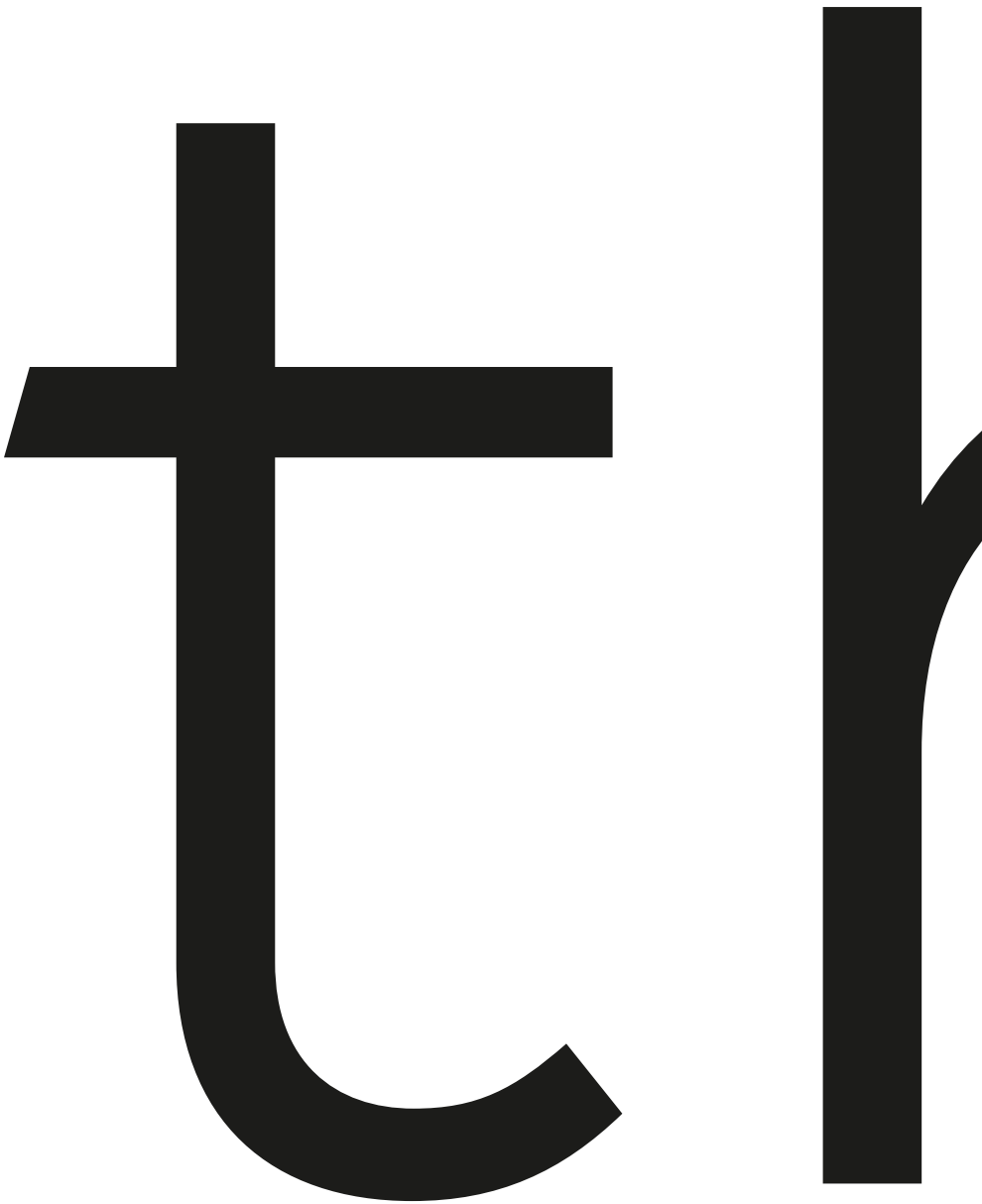

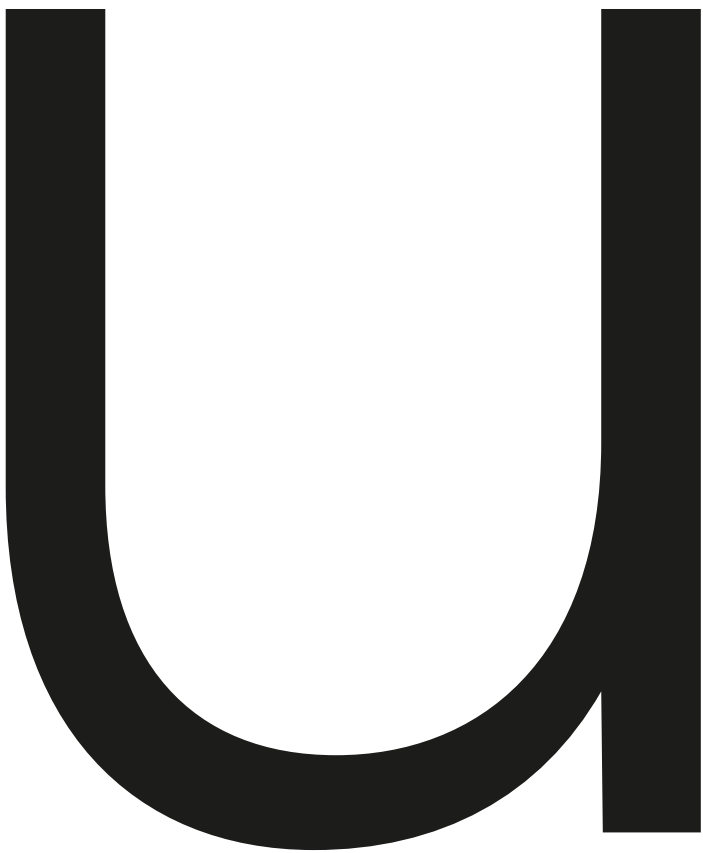

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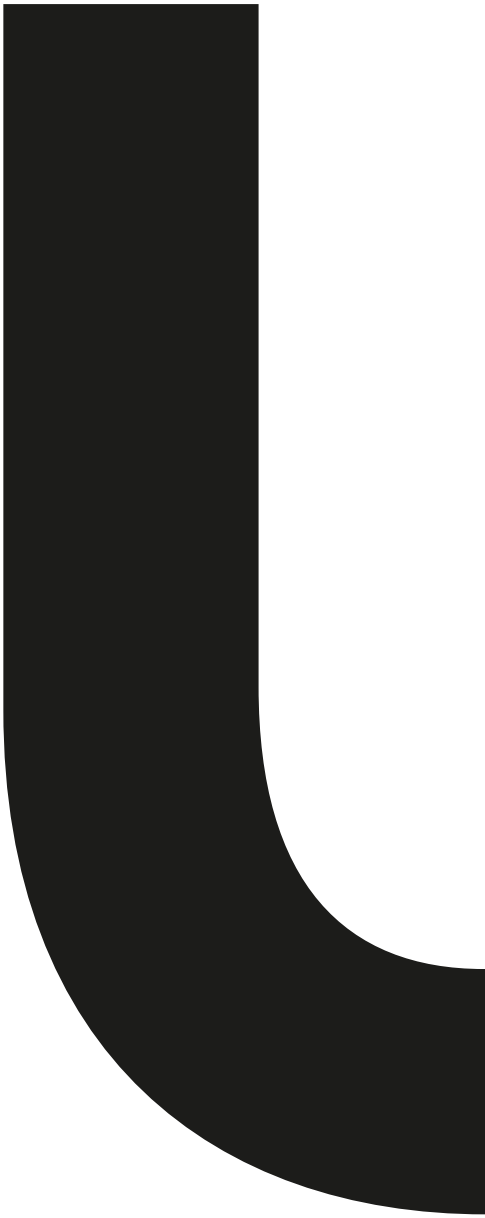

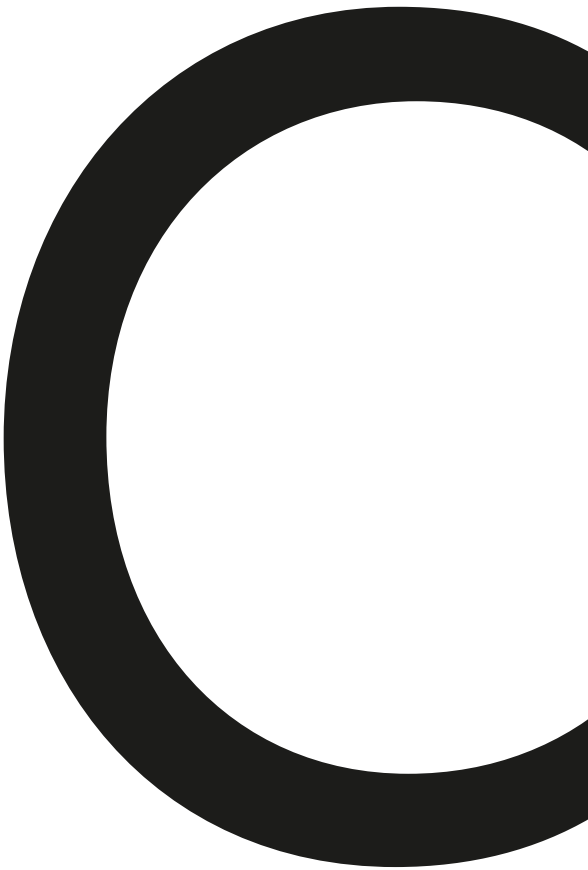

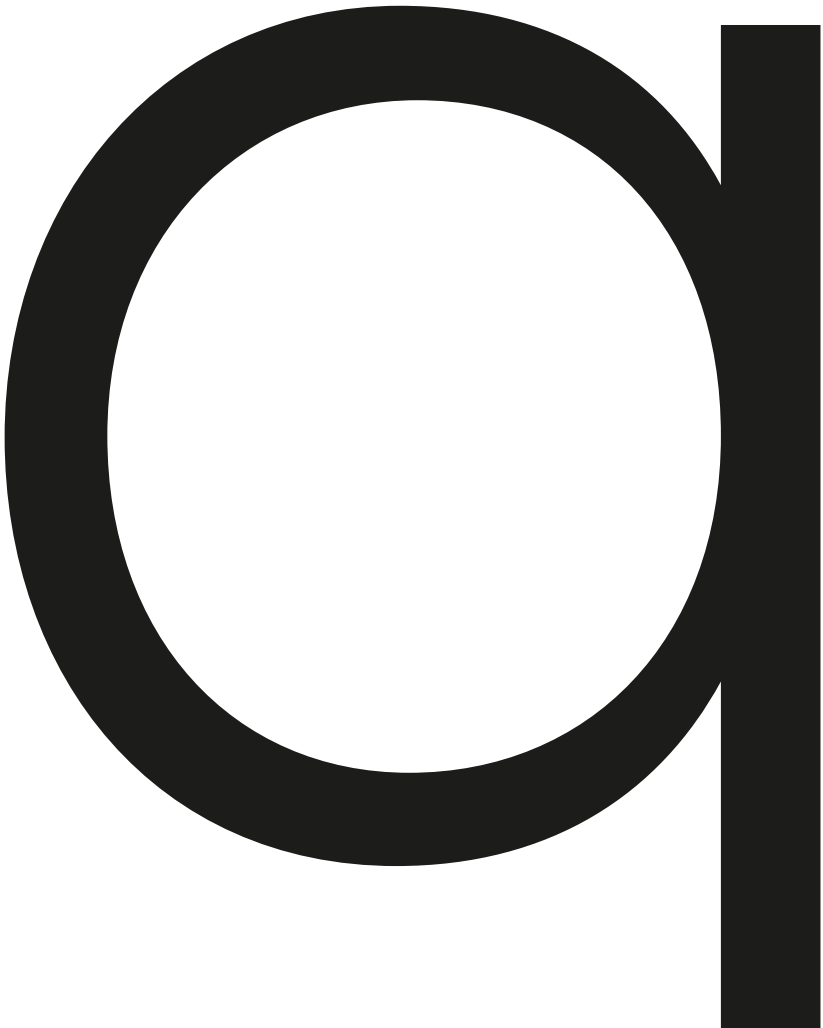

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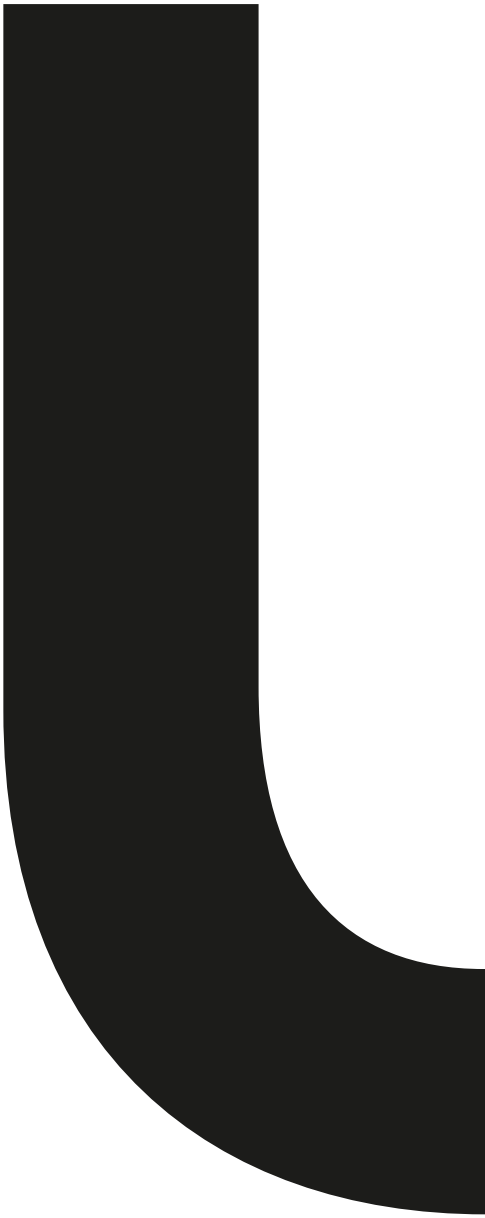

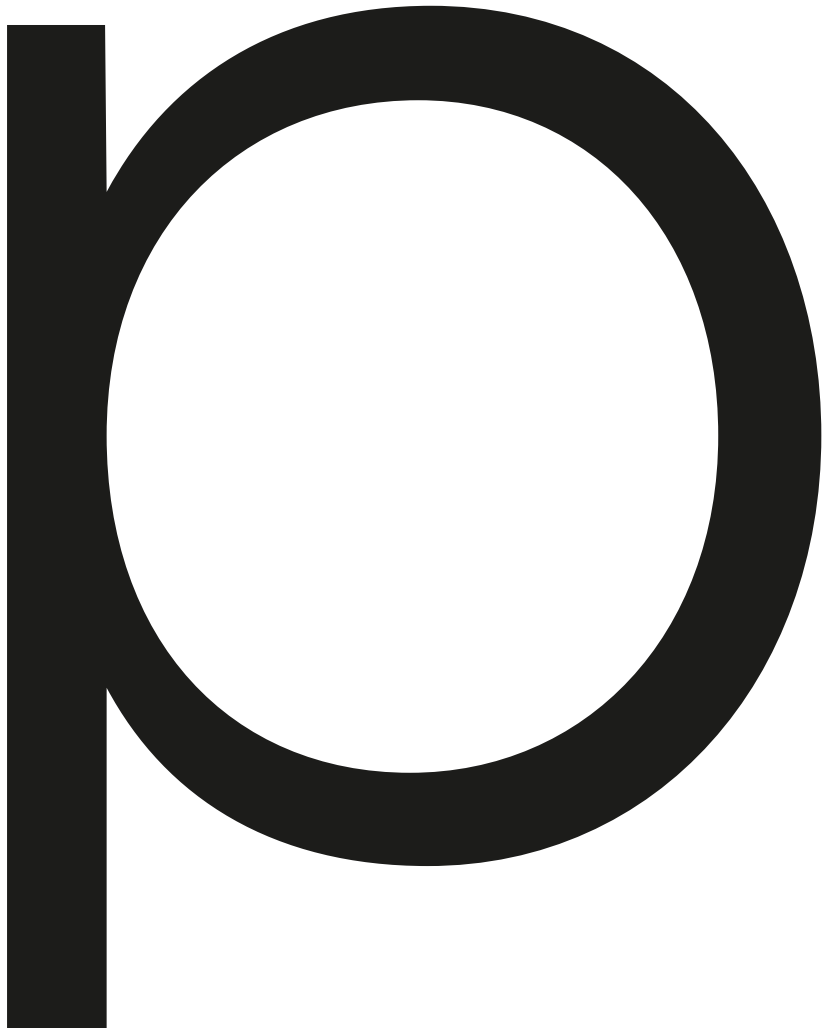

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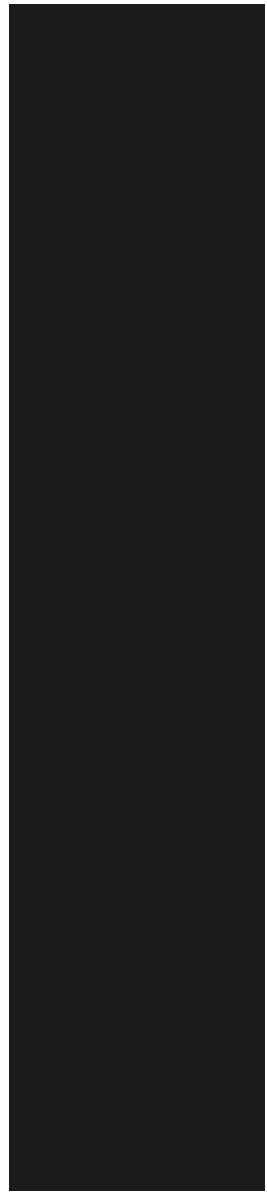

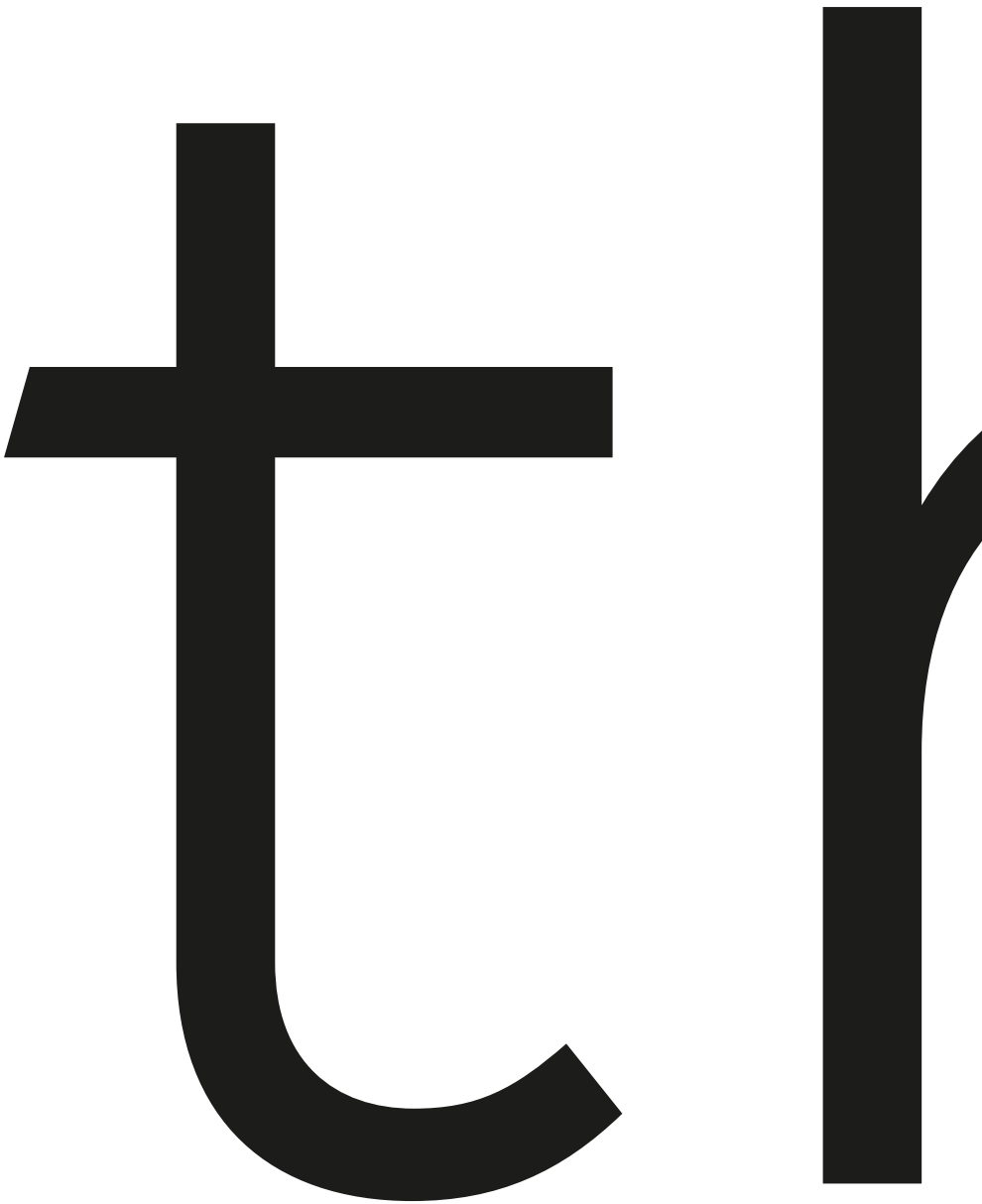

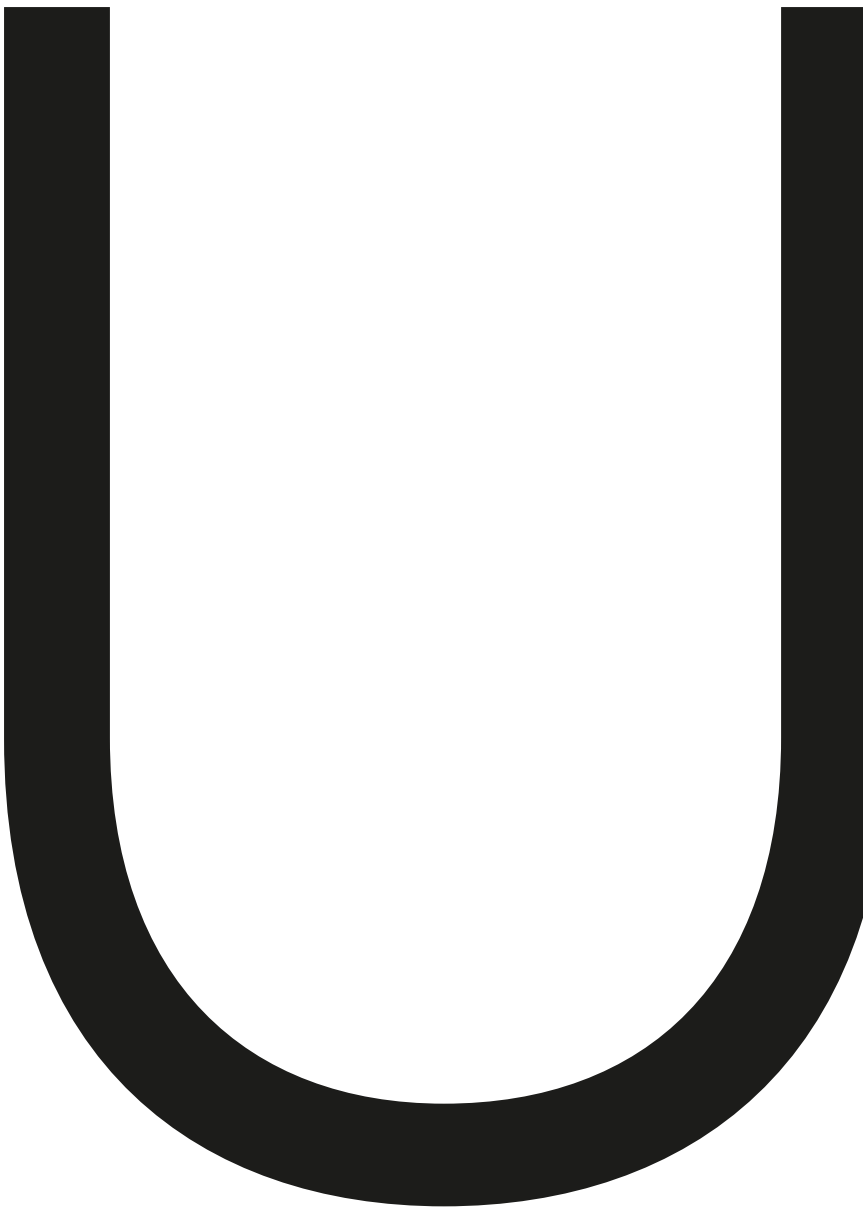

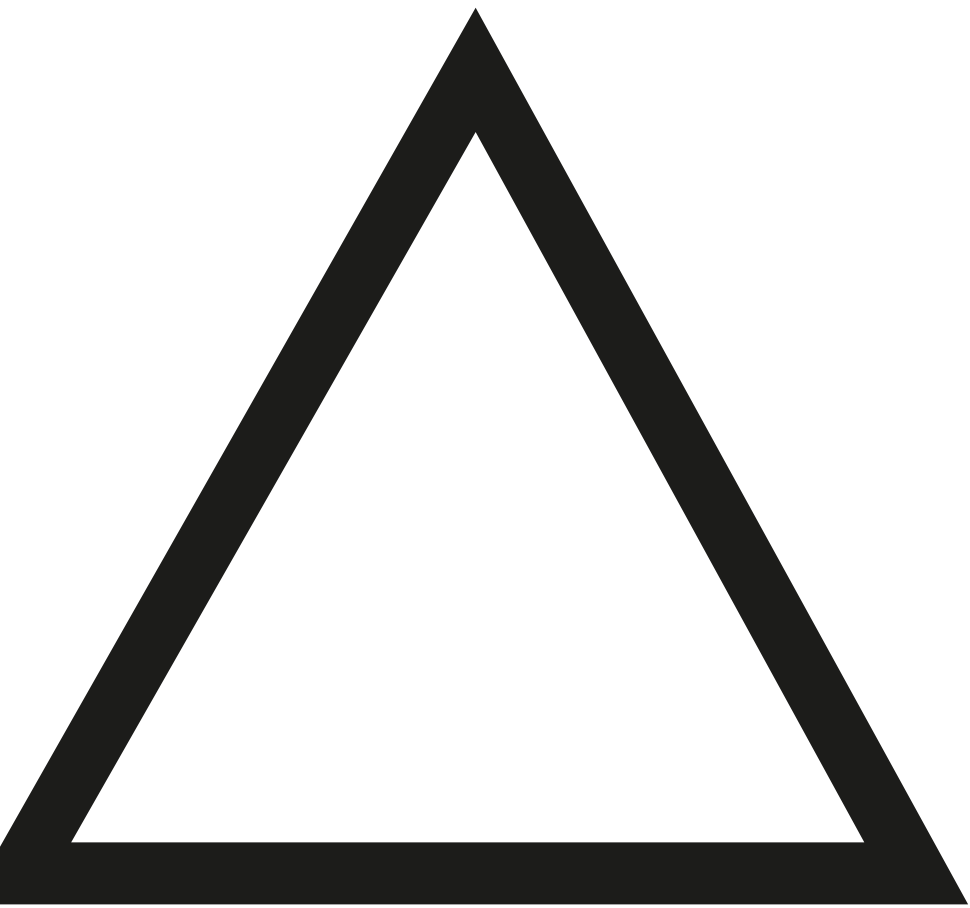

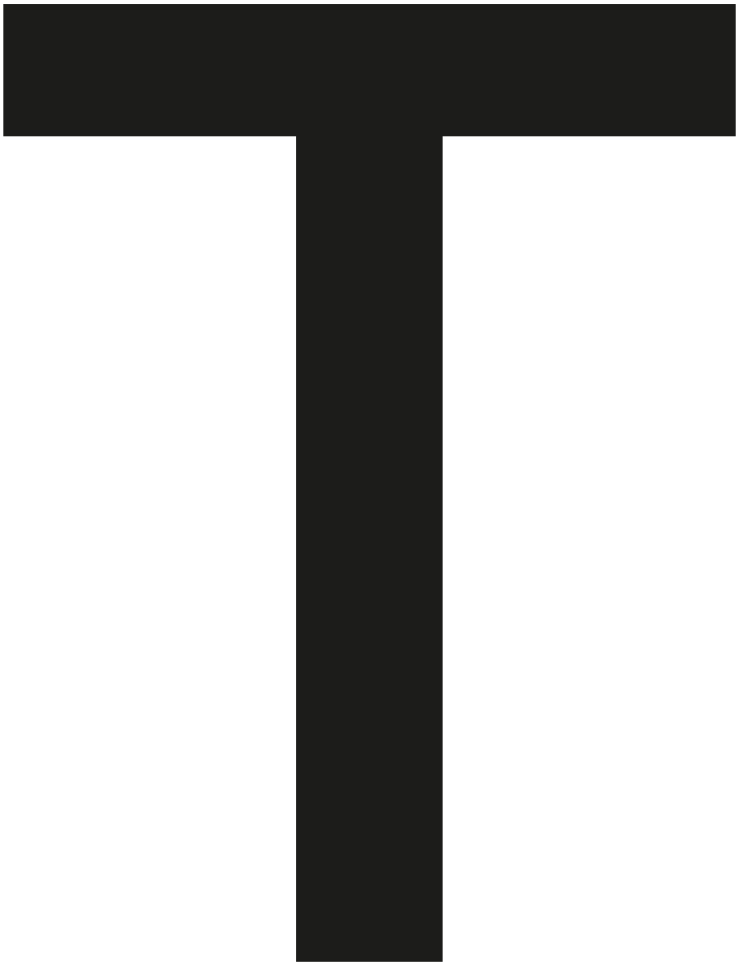

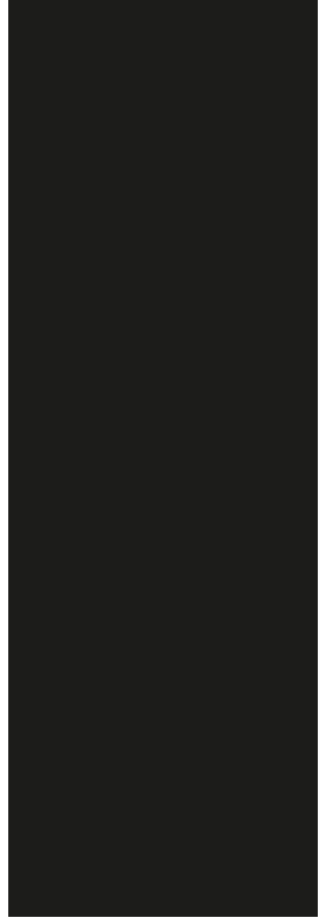

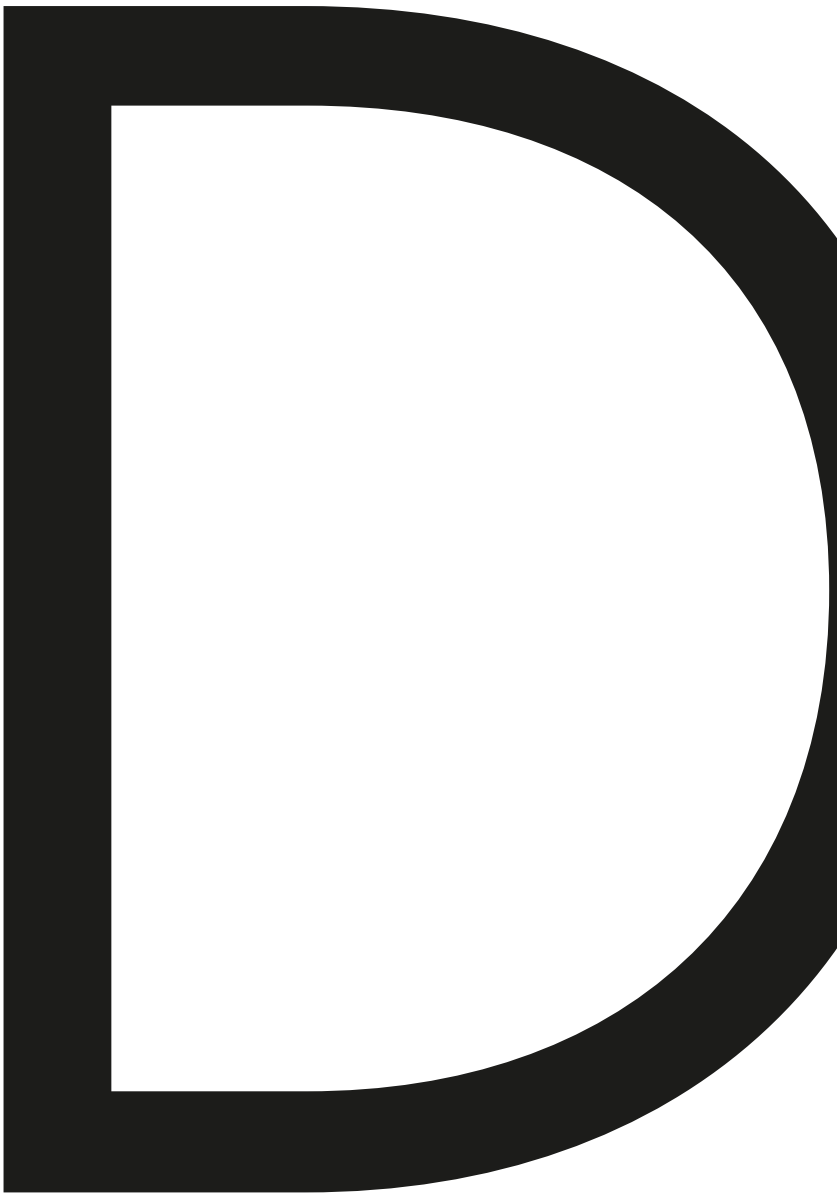

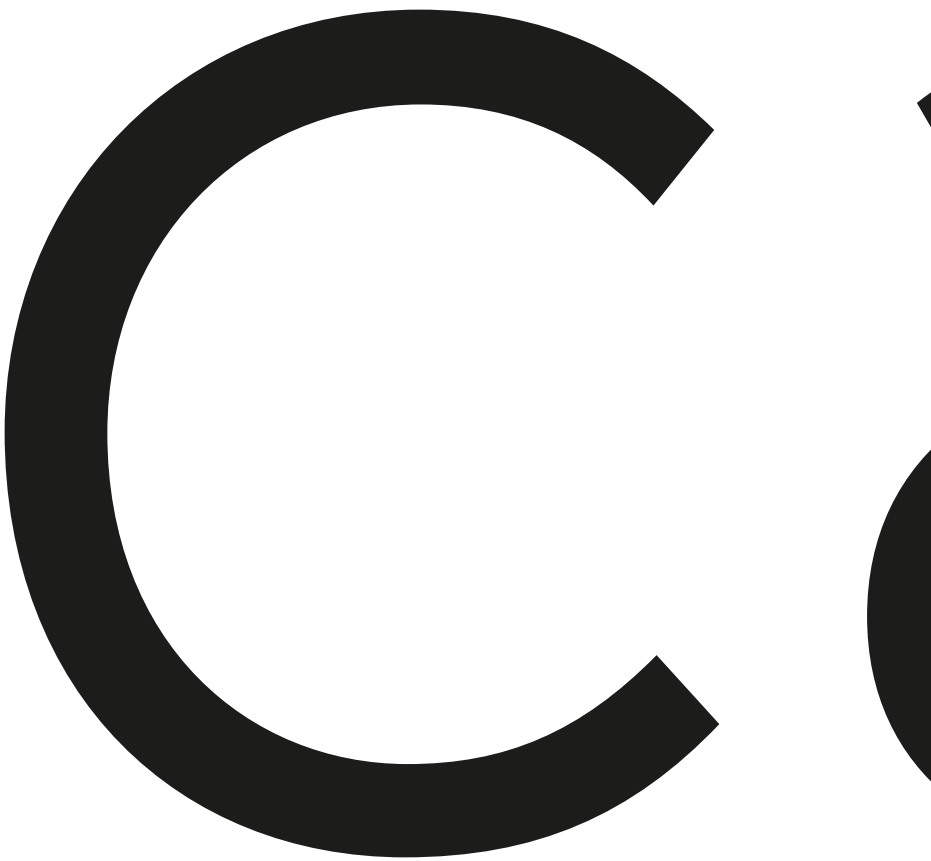

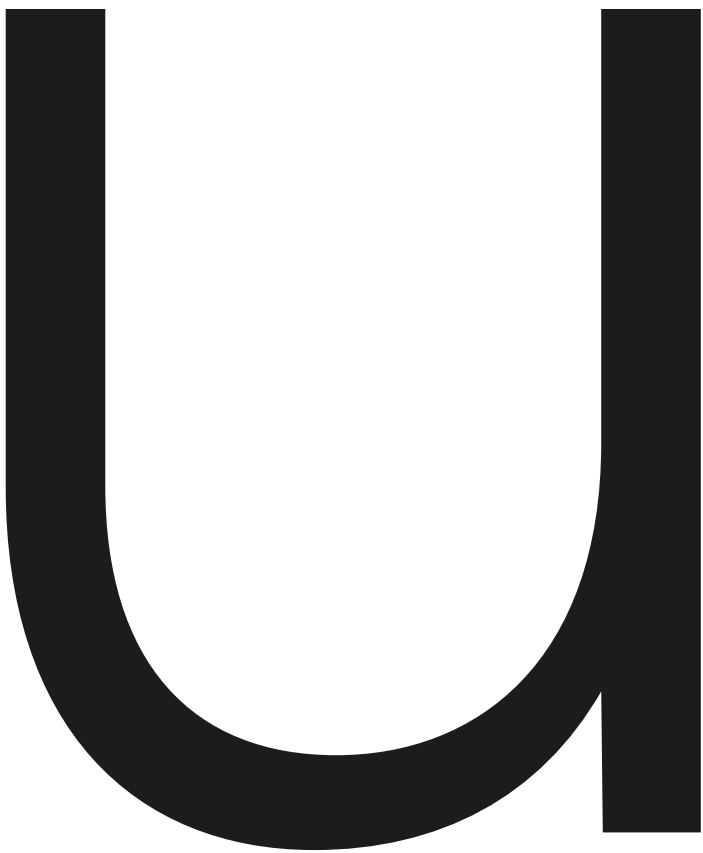

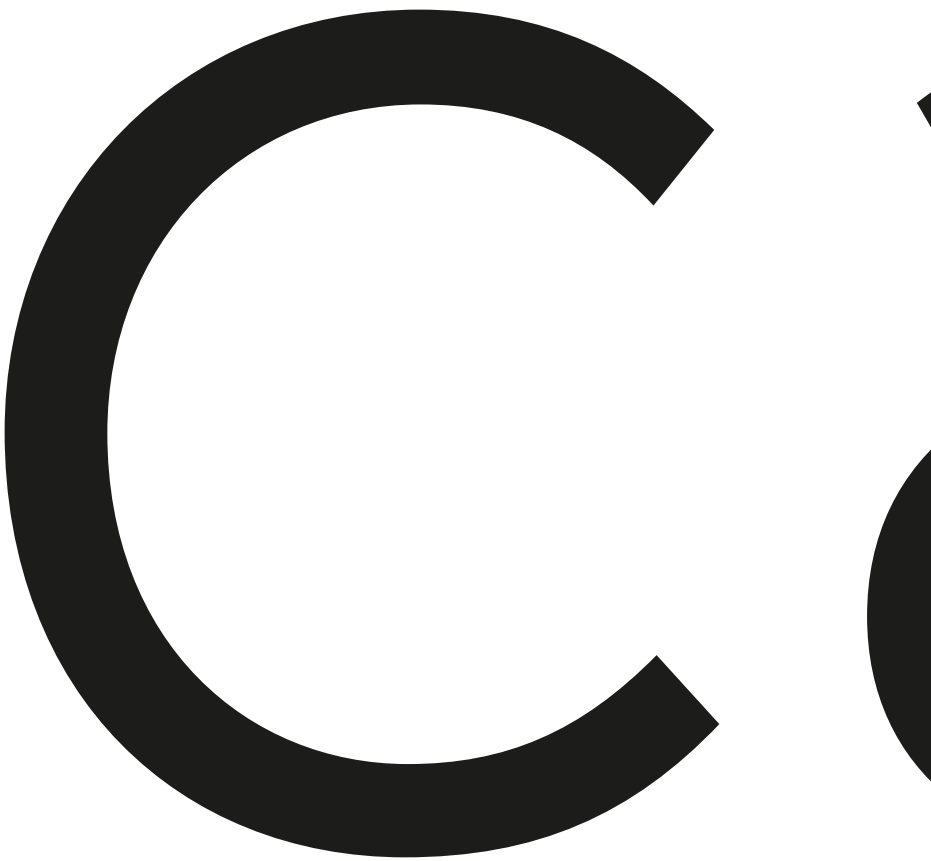

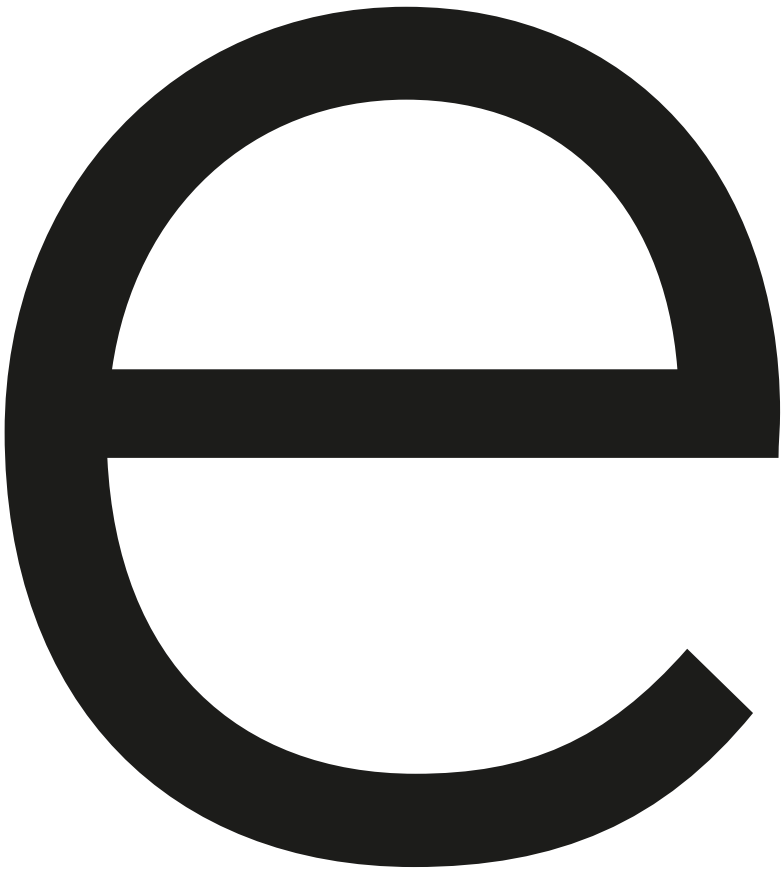

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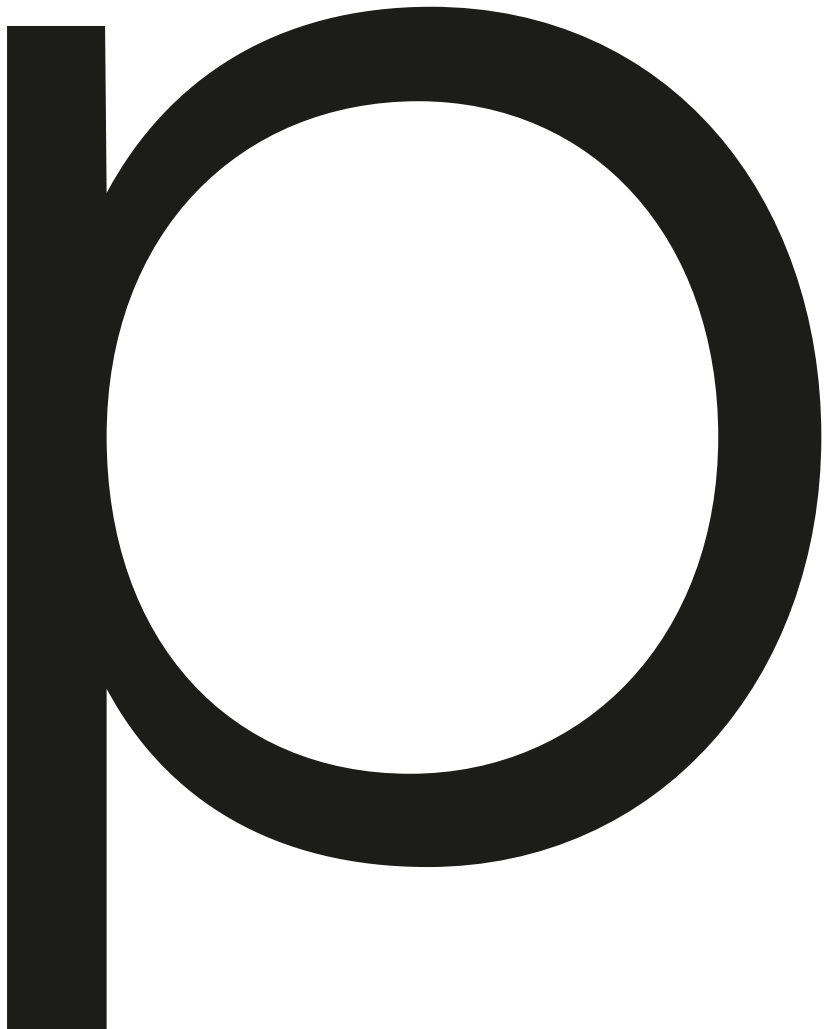

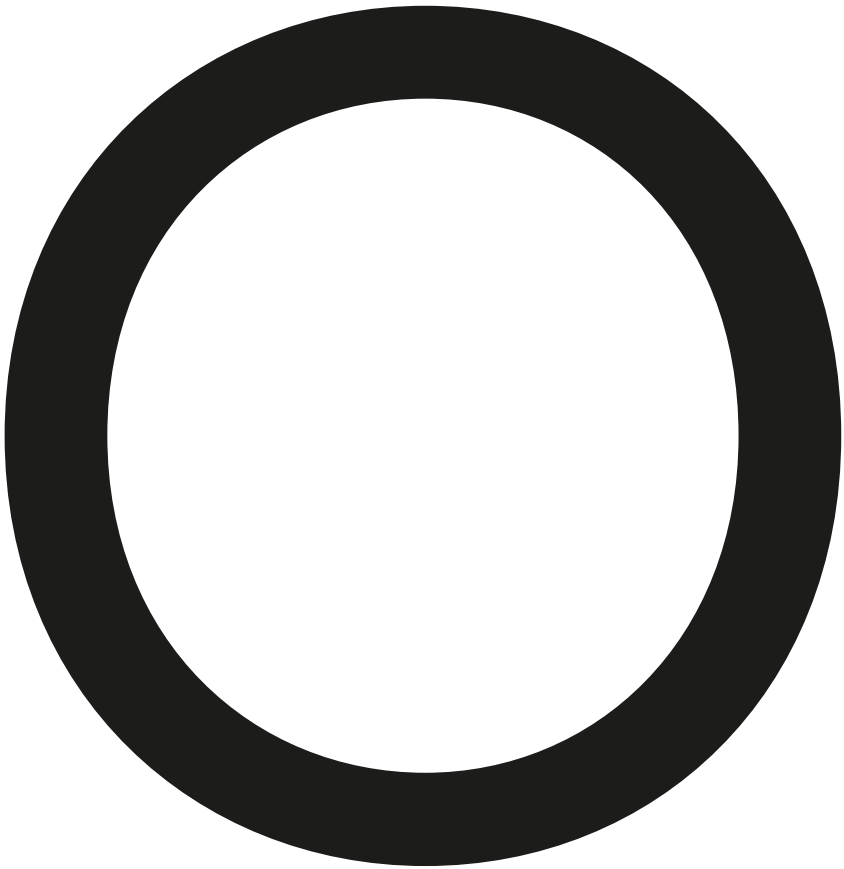

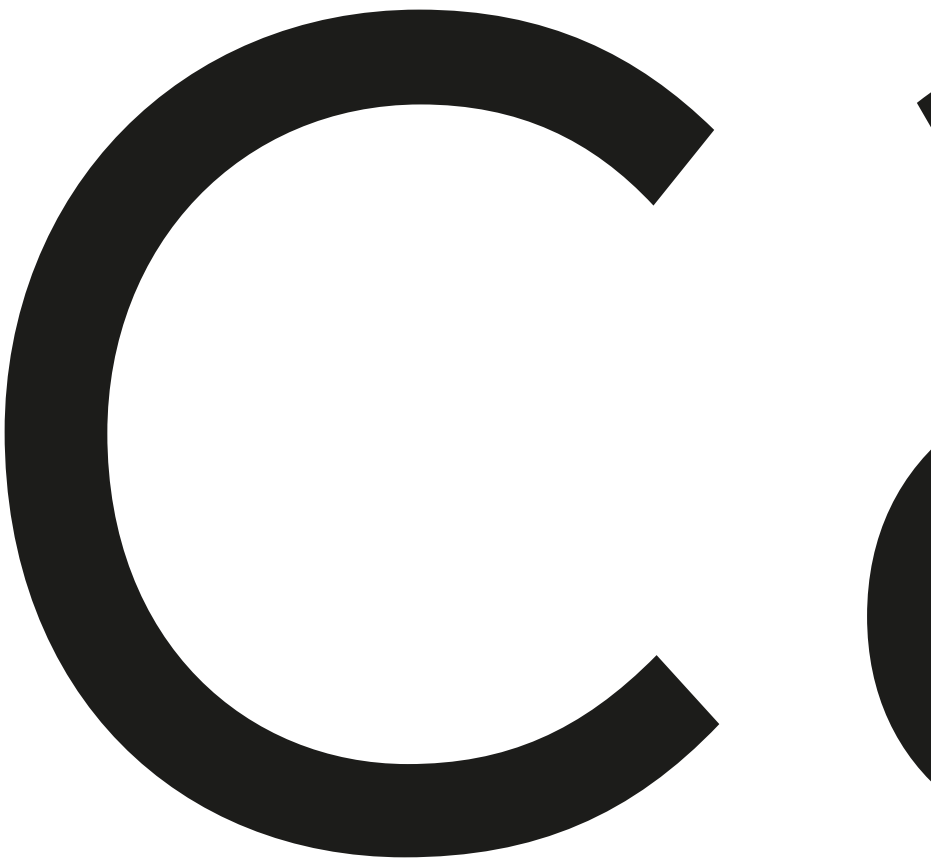

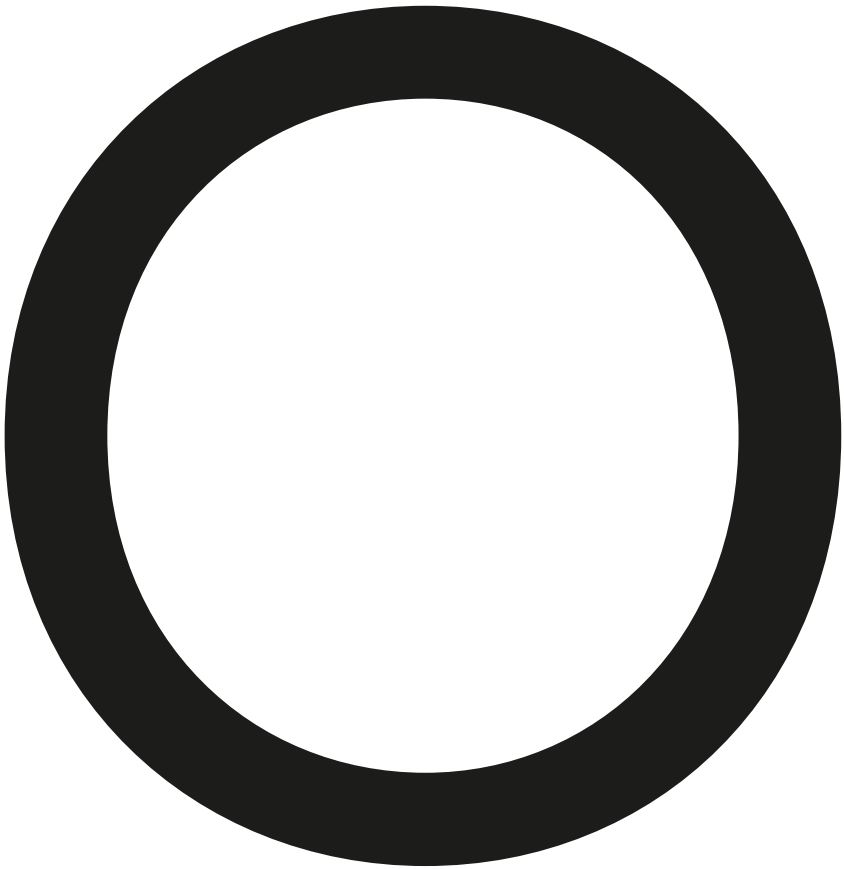

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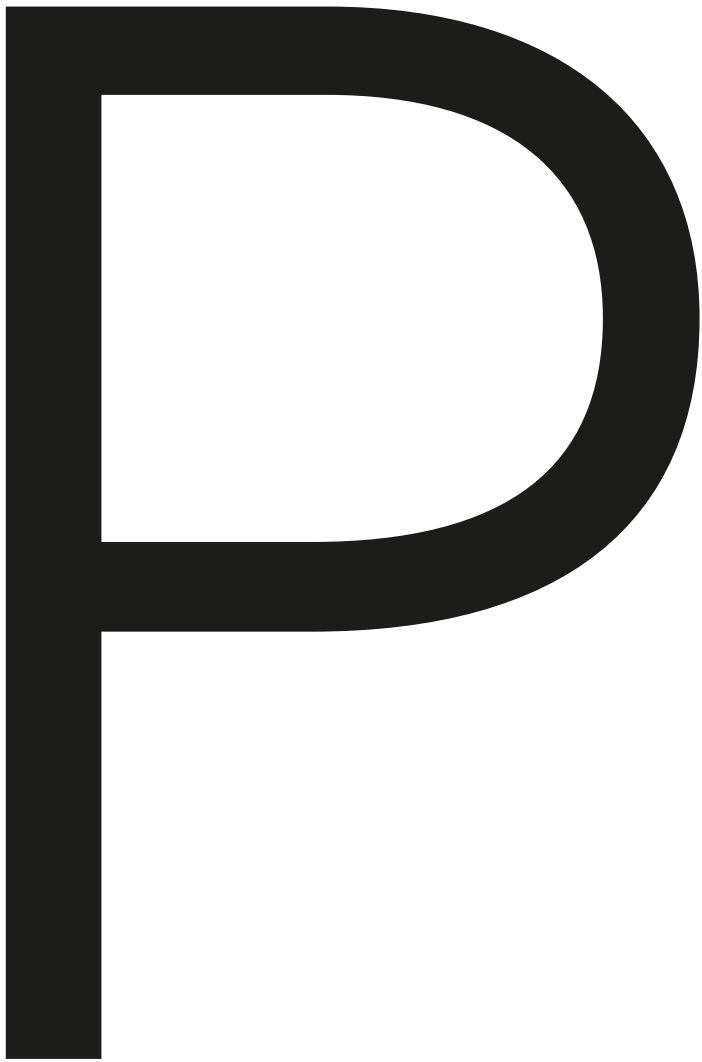

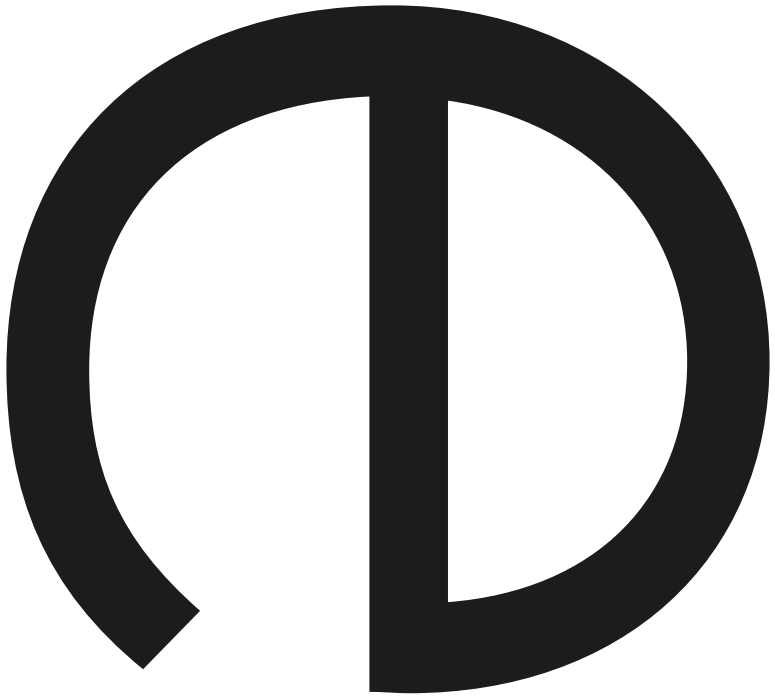

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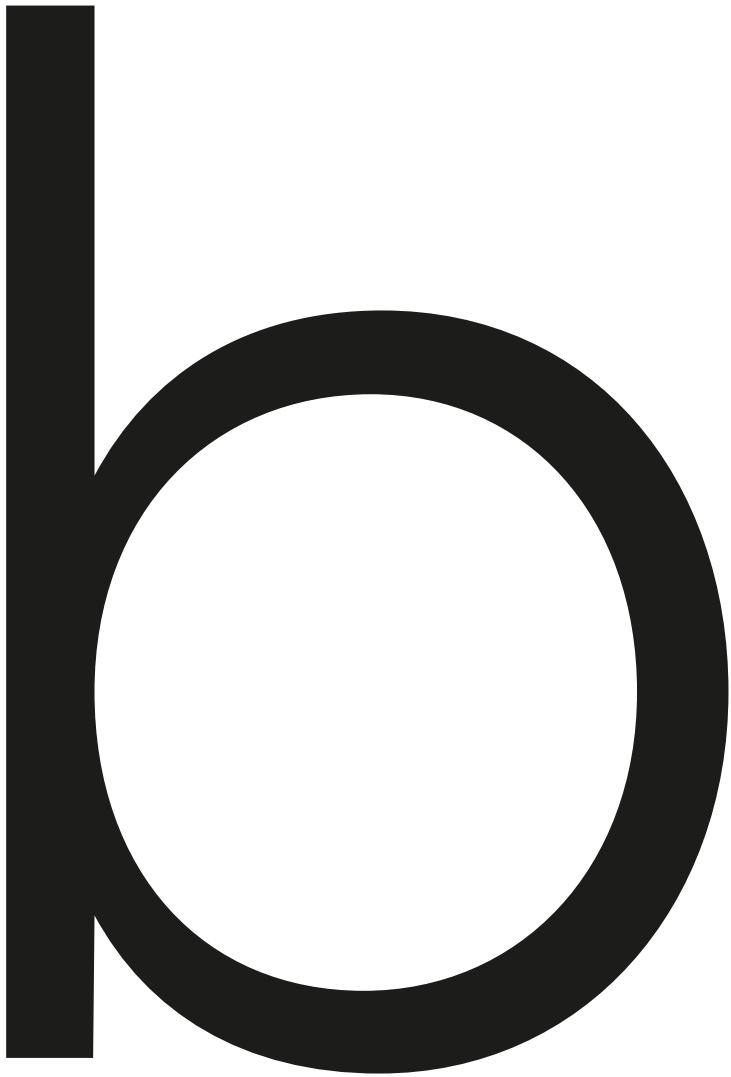

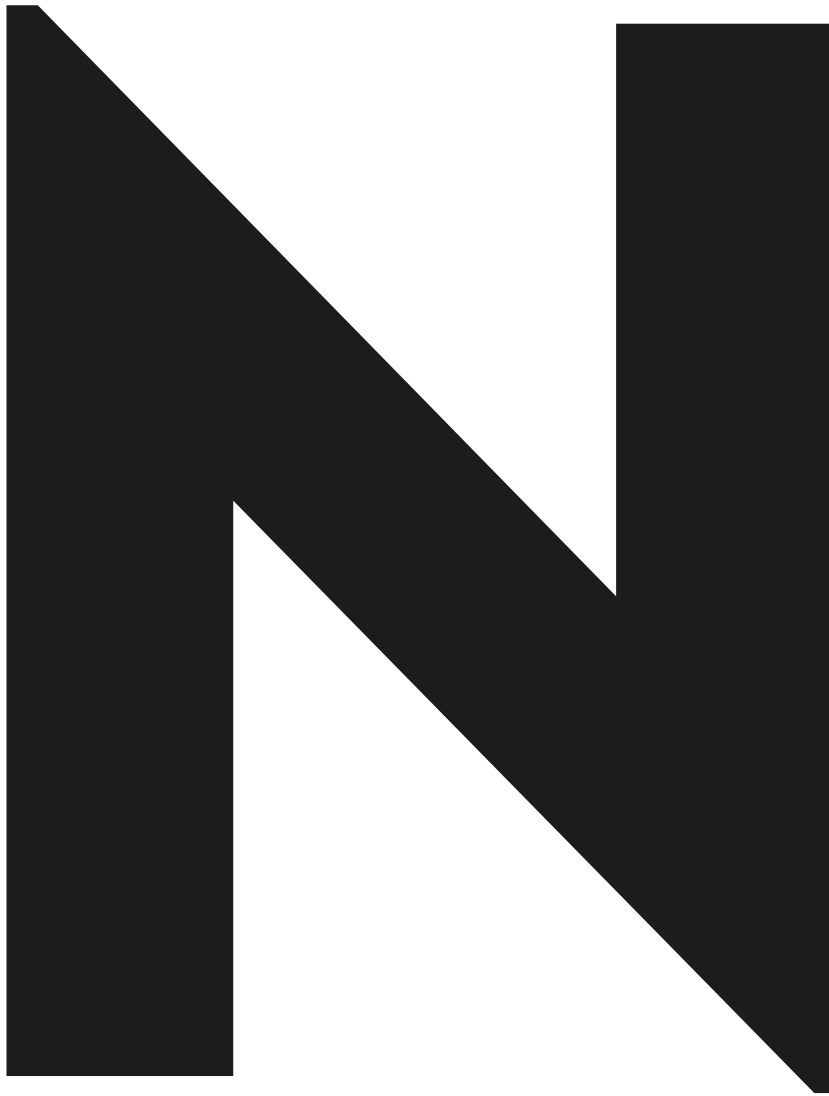

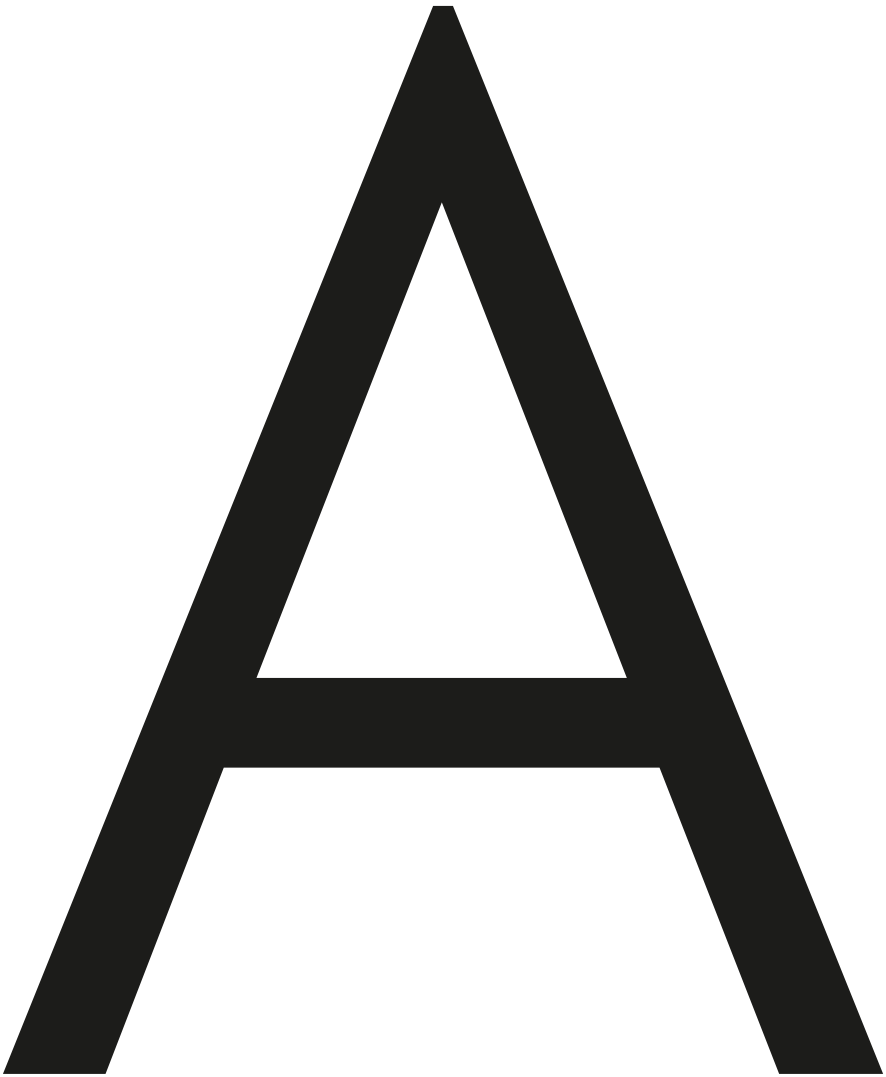

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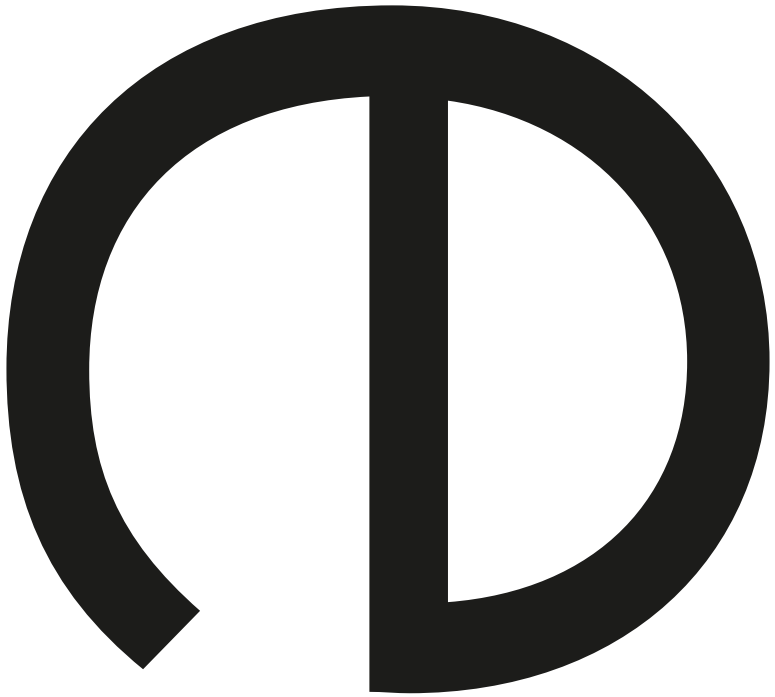

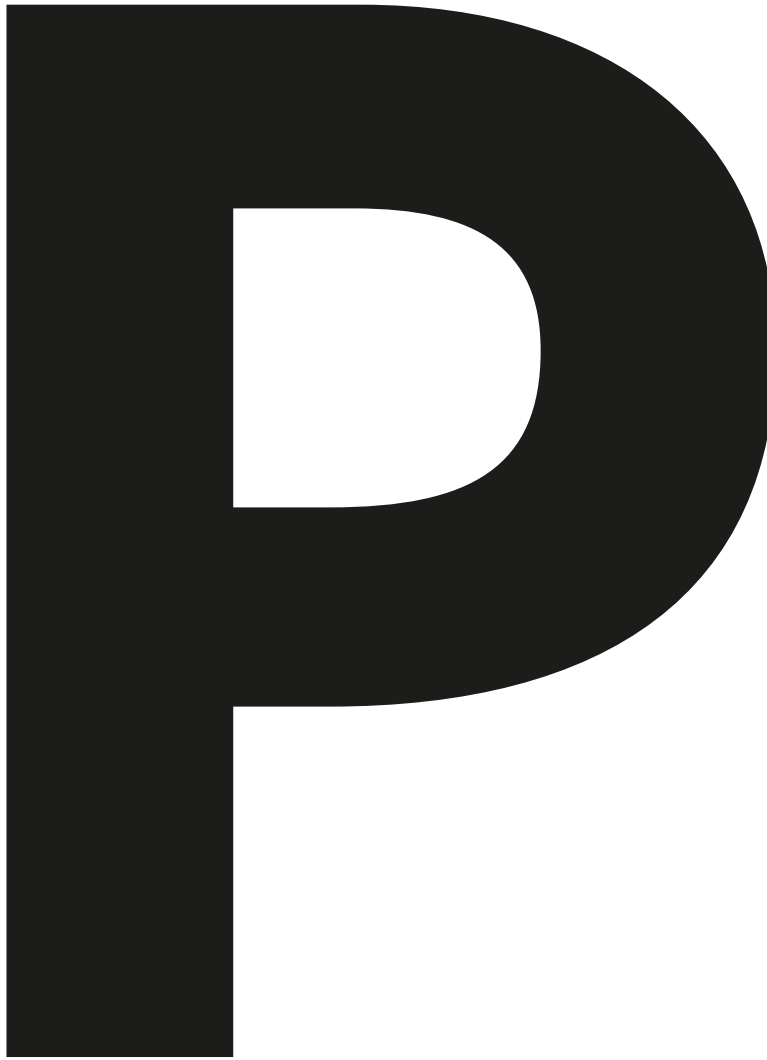

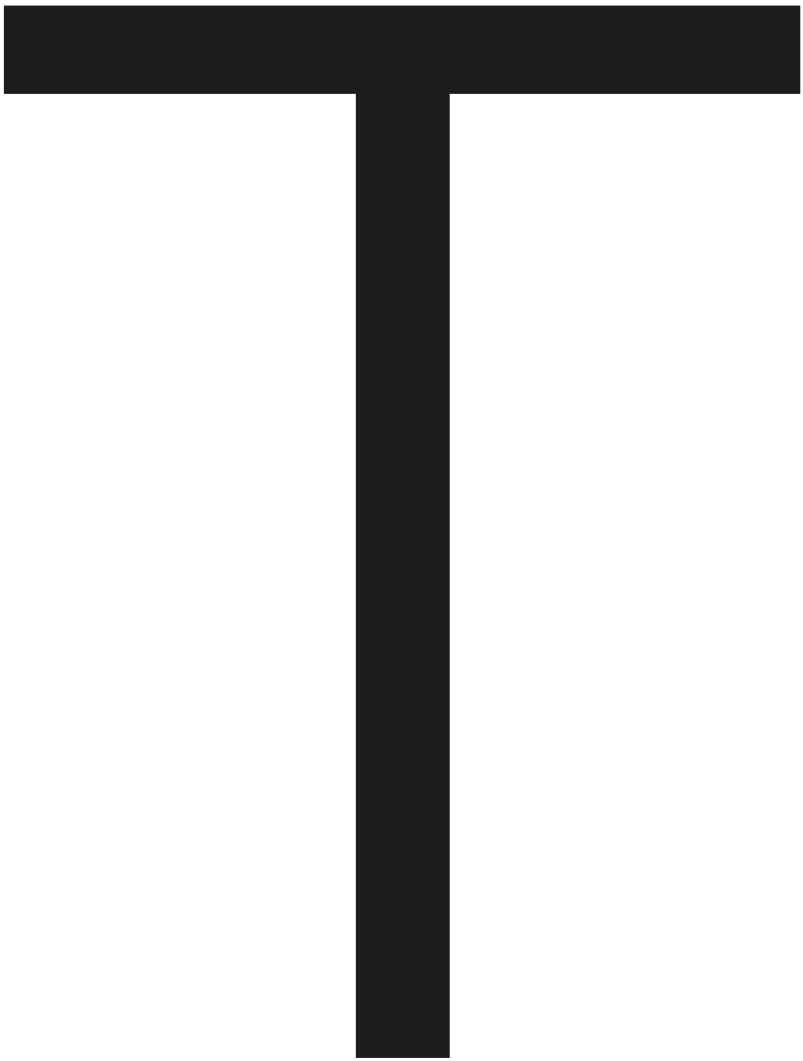

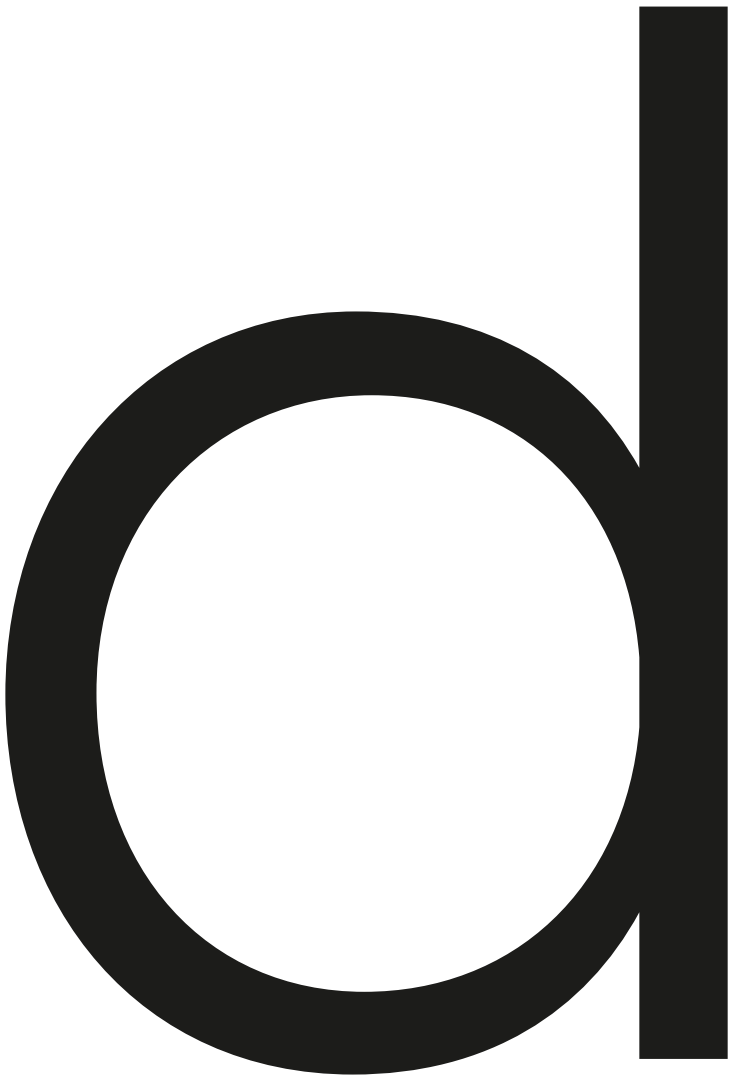

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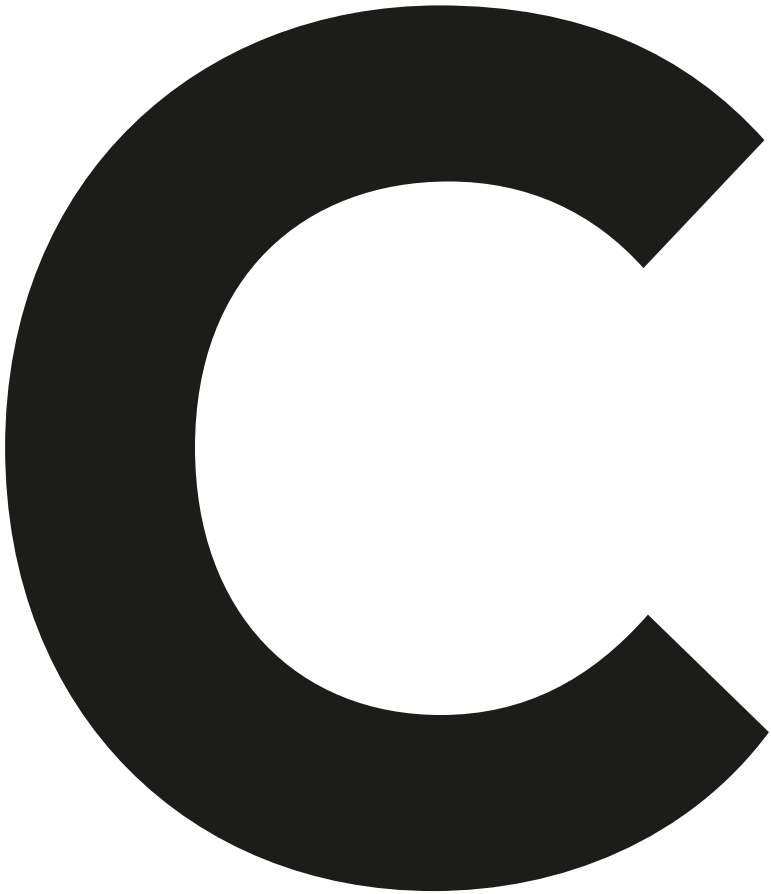

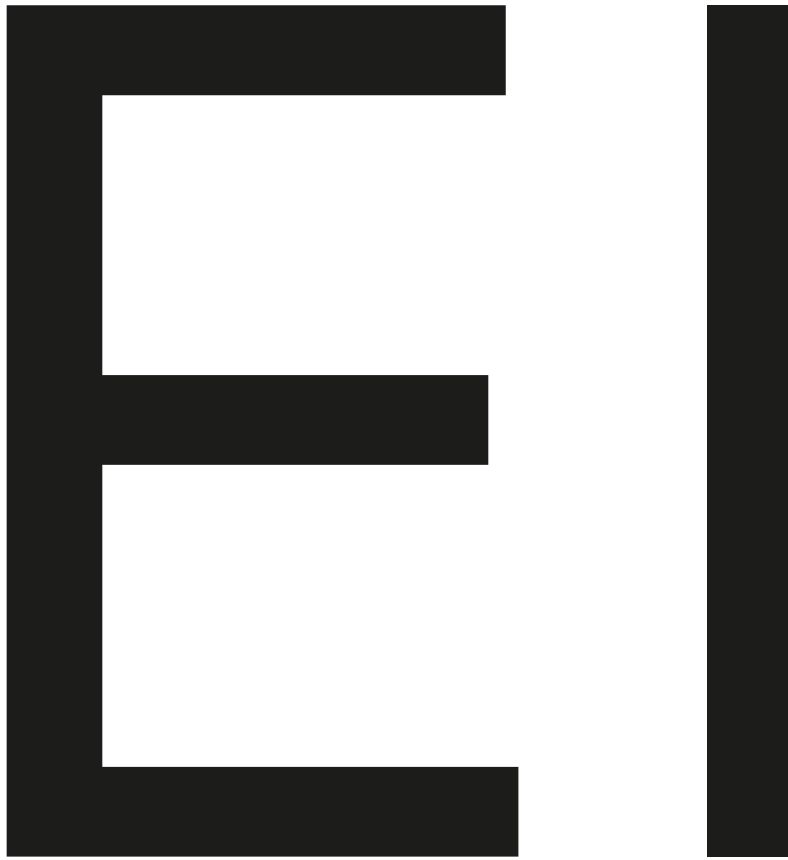

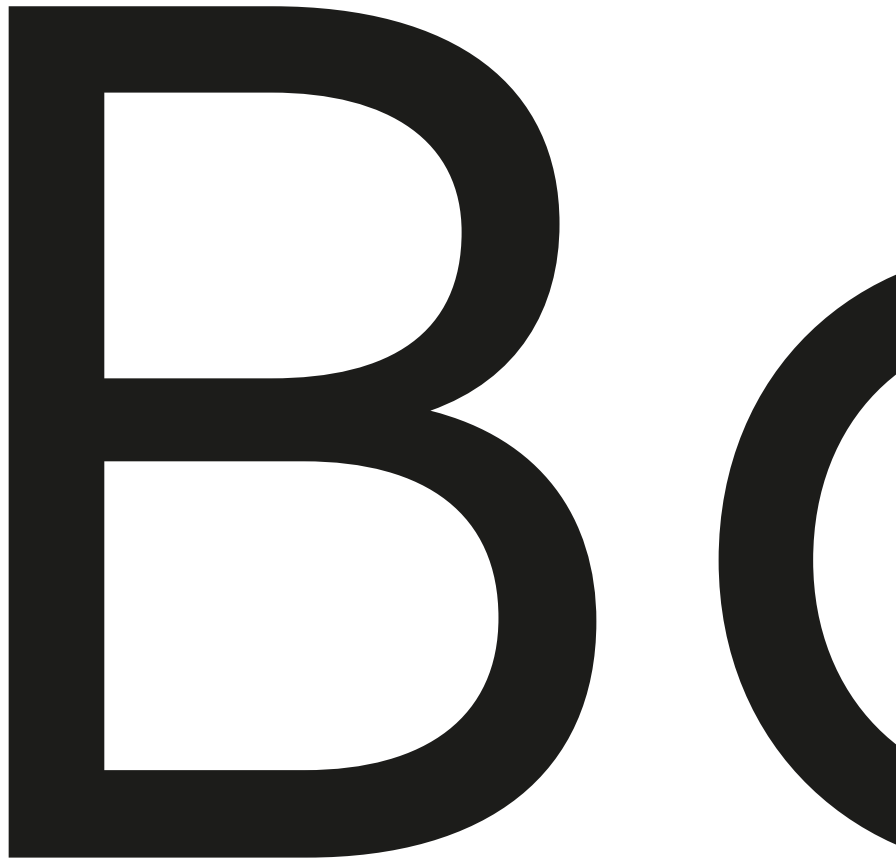

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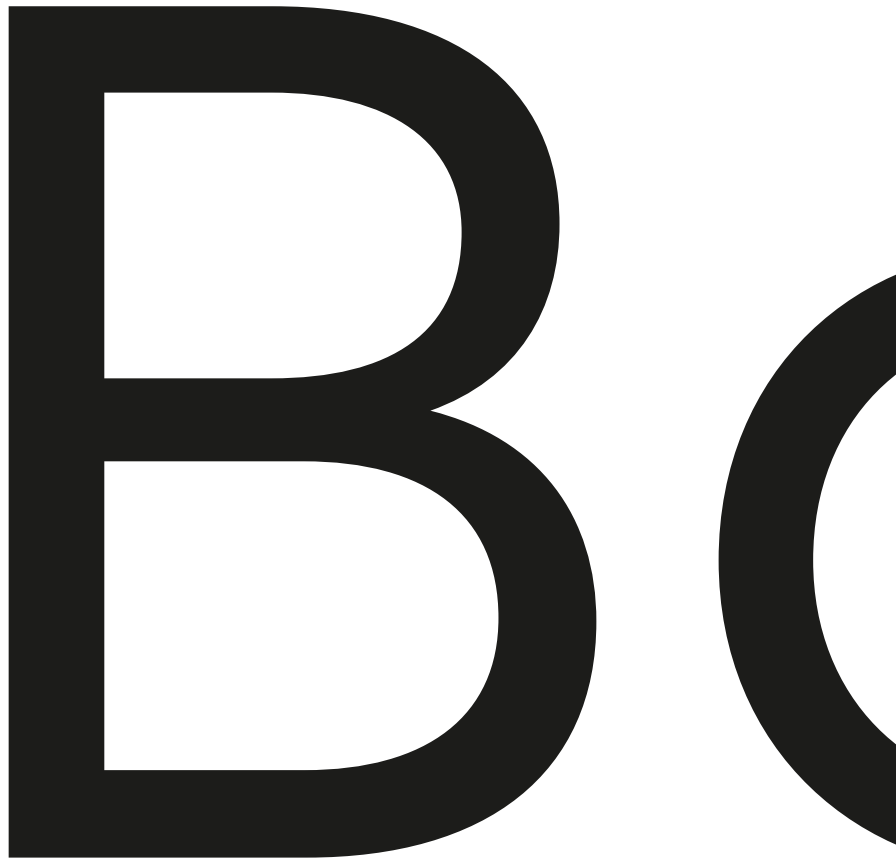

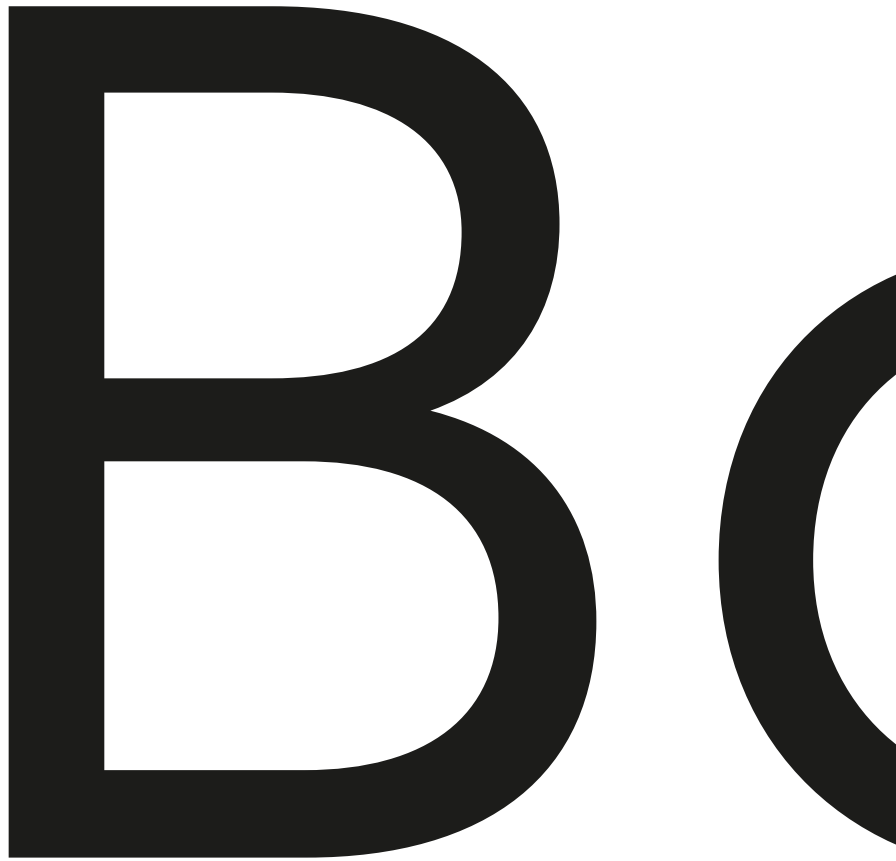

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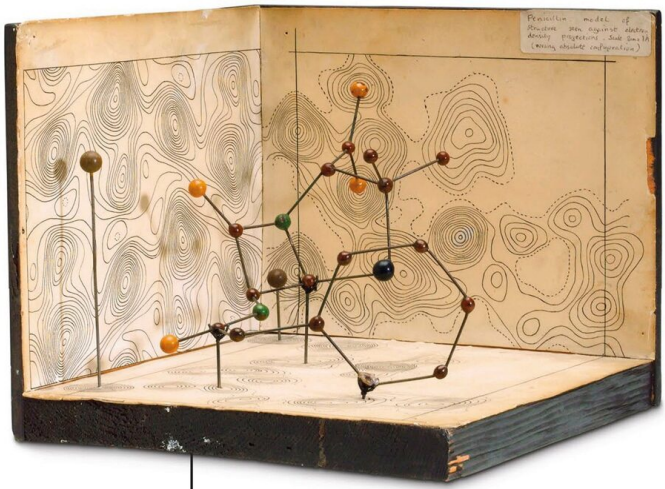
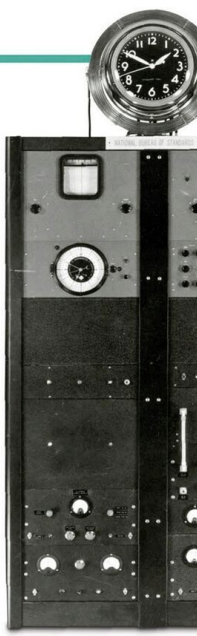

Penicillin model of
Absolute spin against clutting
Anomalous dispersion - Side Bonds
(showing absolute configuration)



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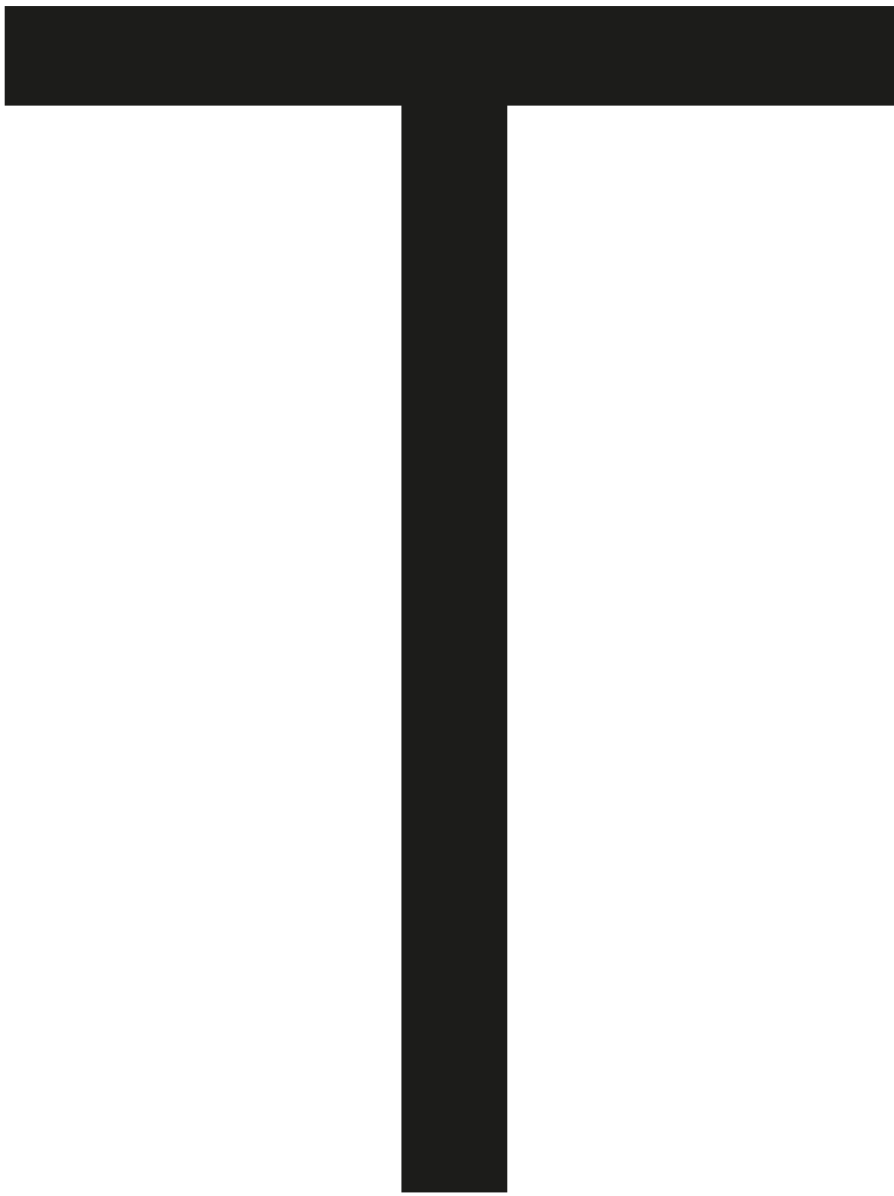

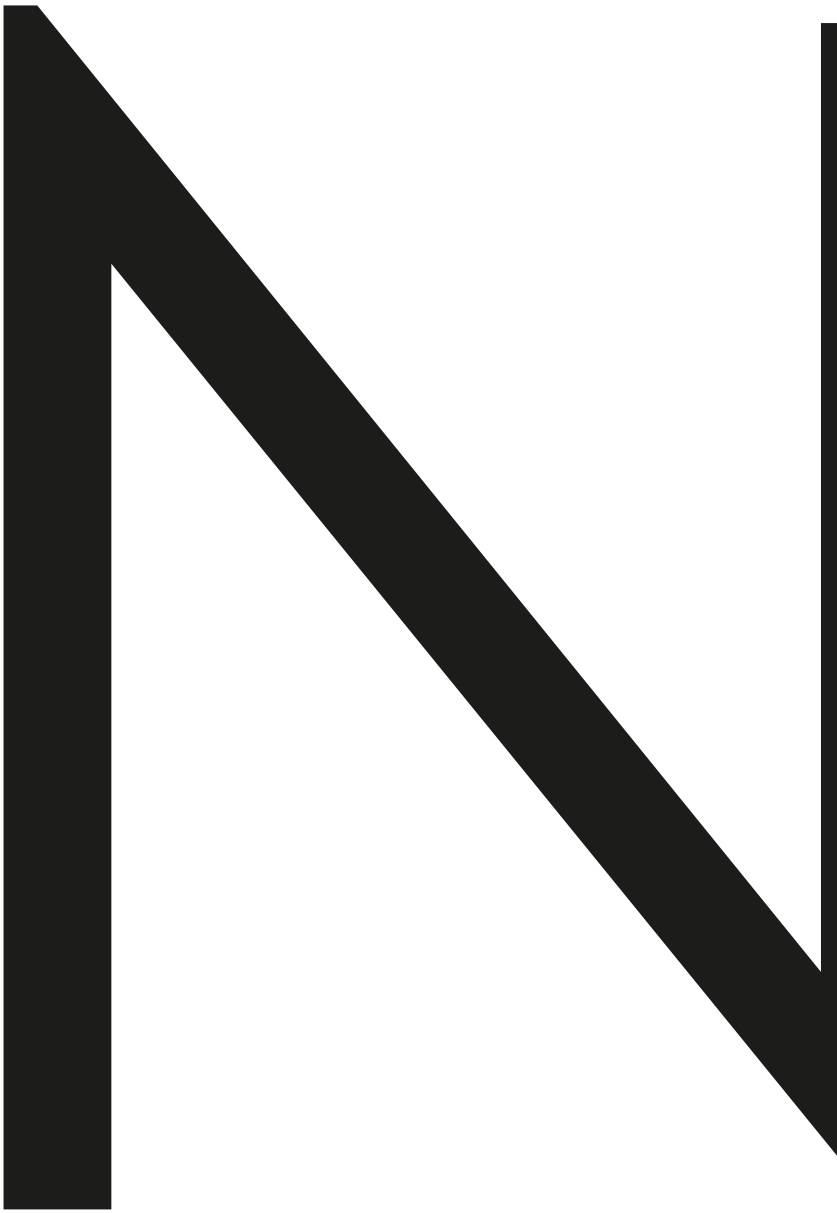

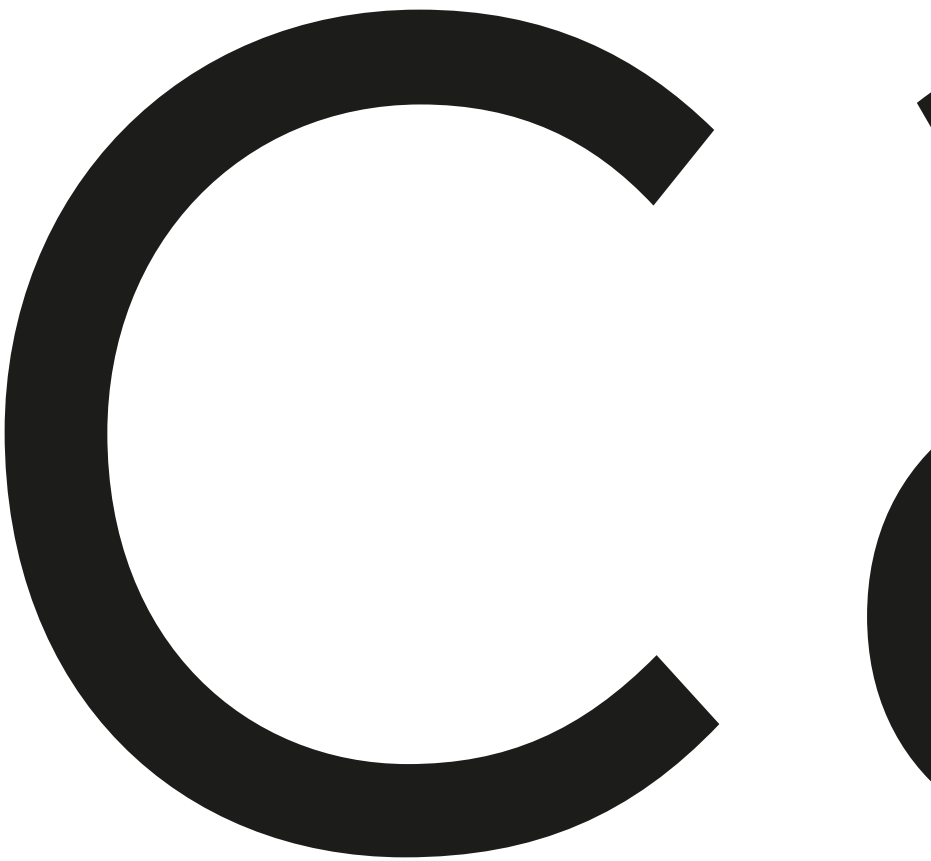

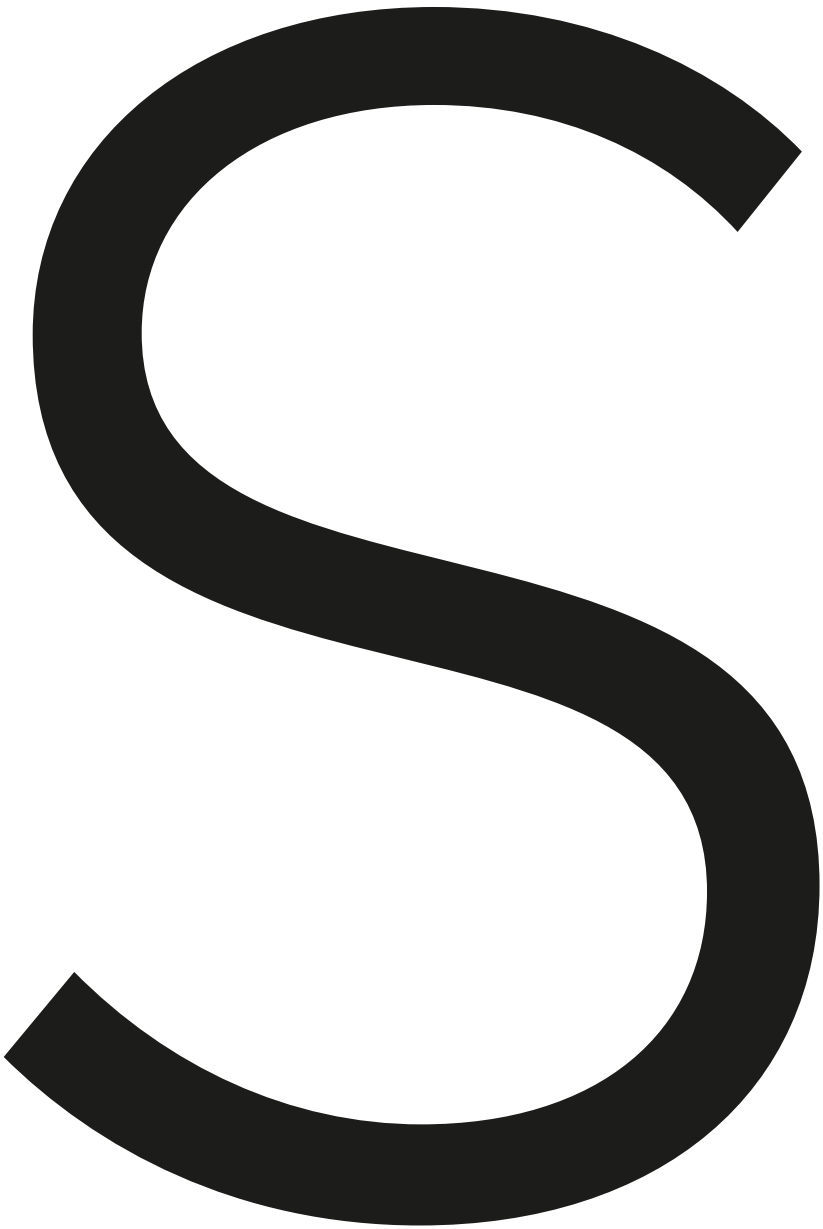

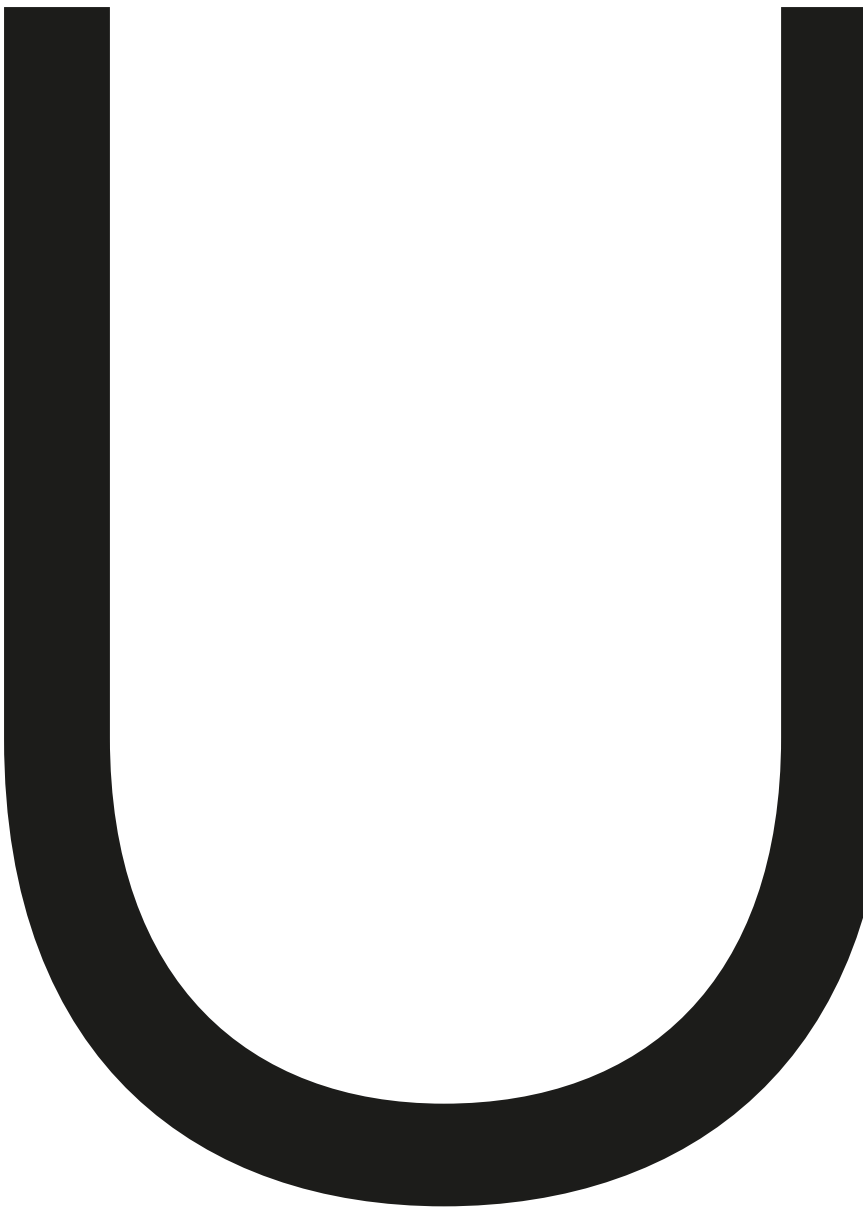

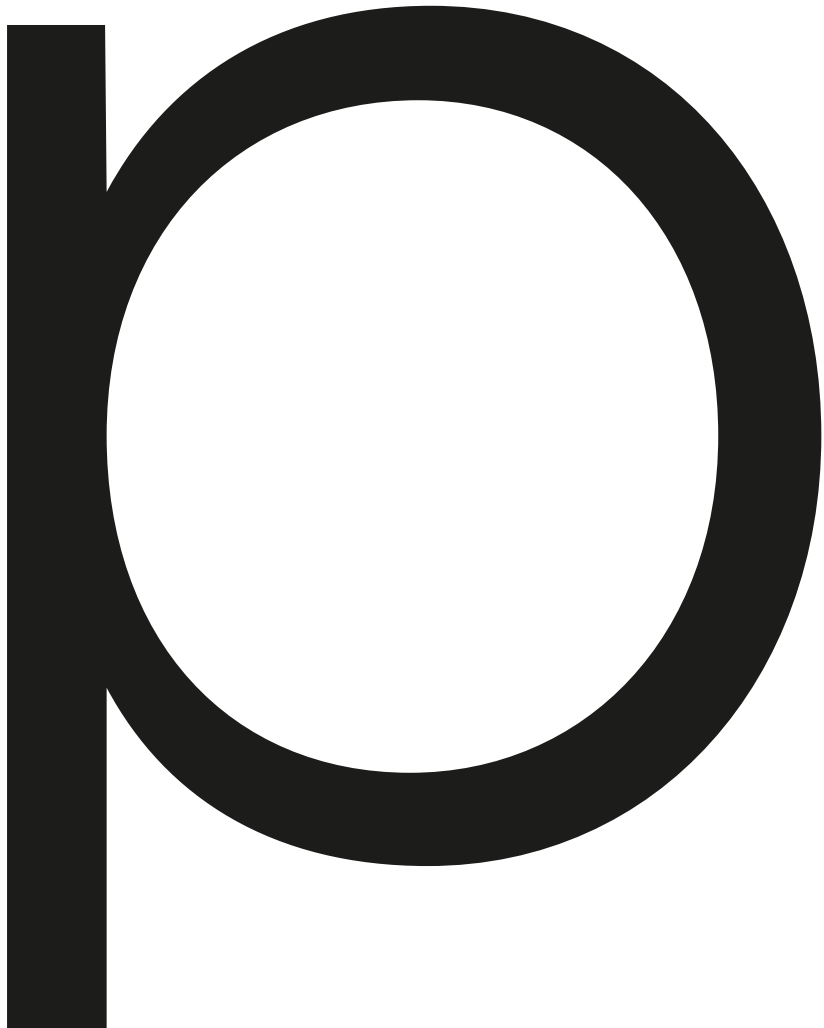

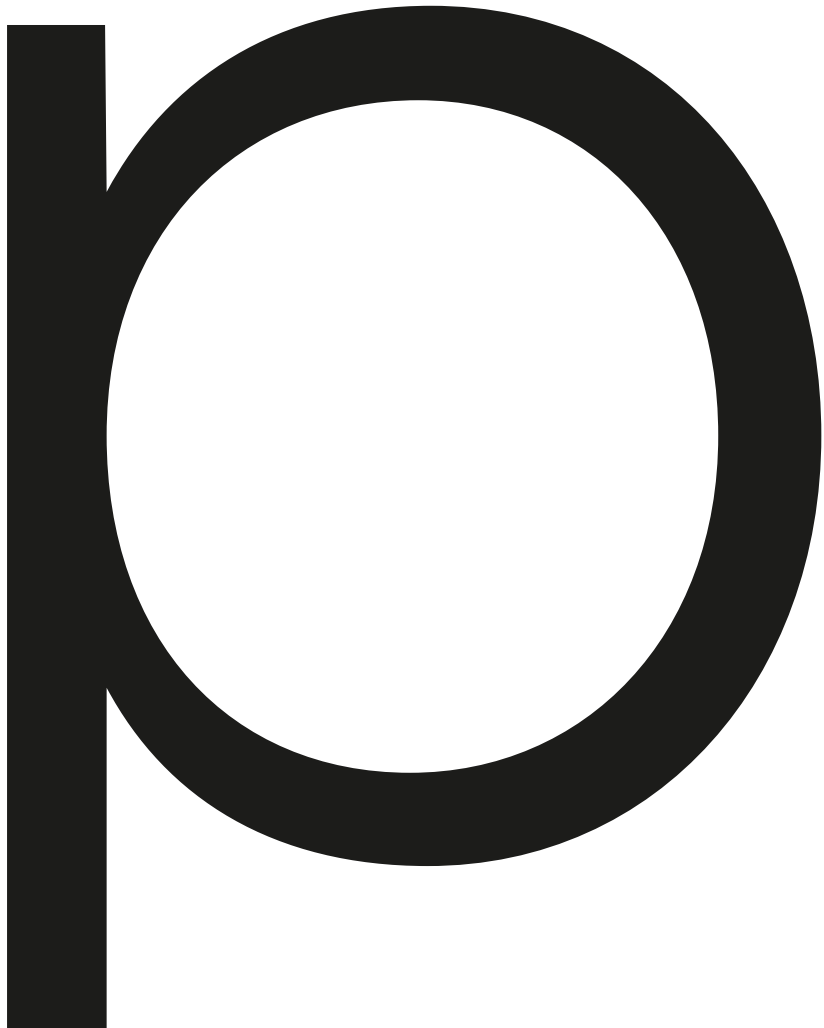

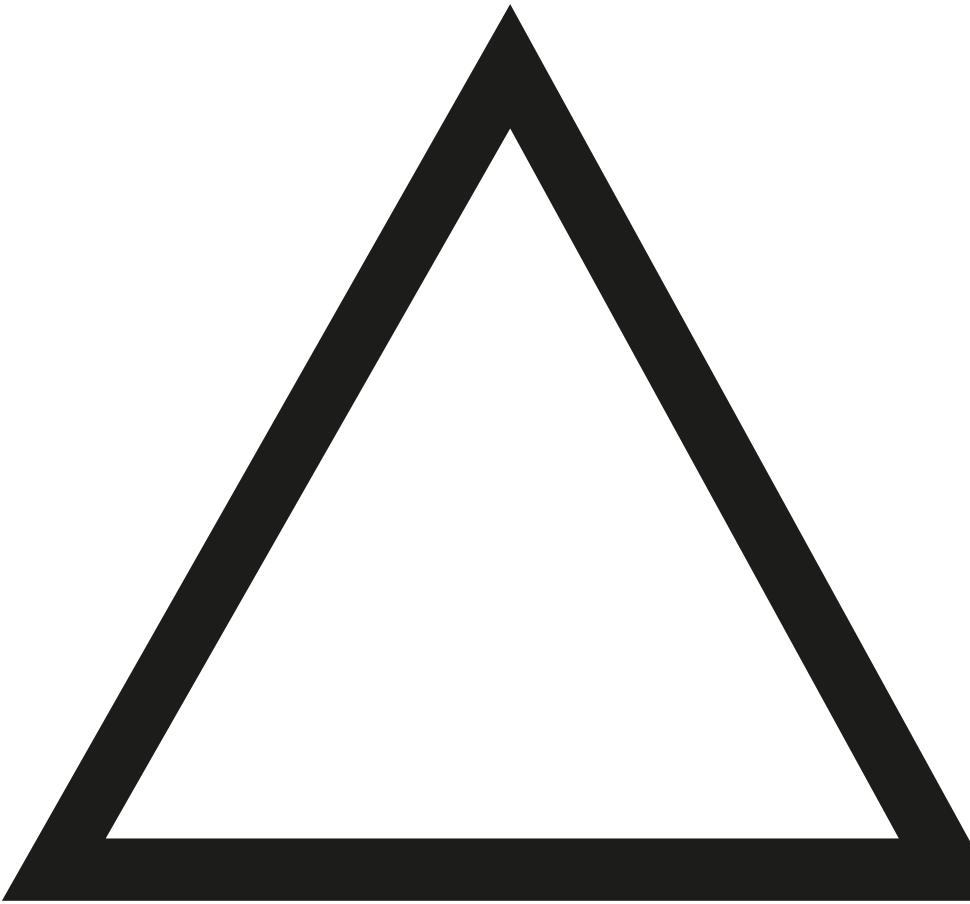

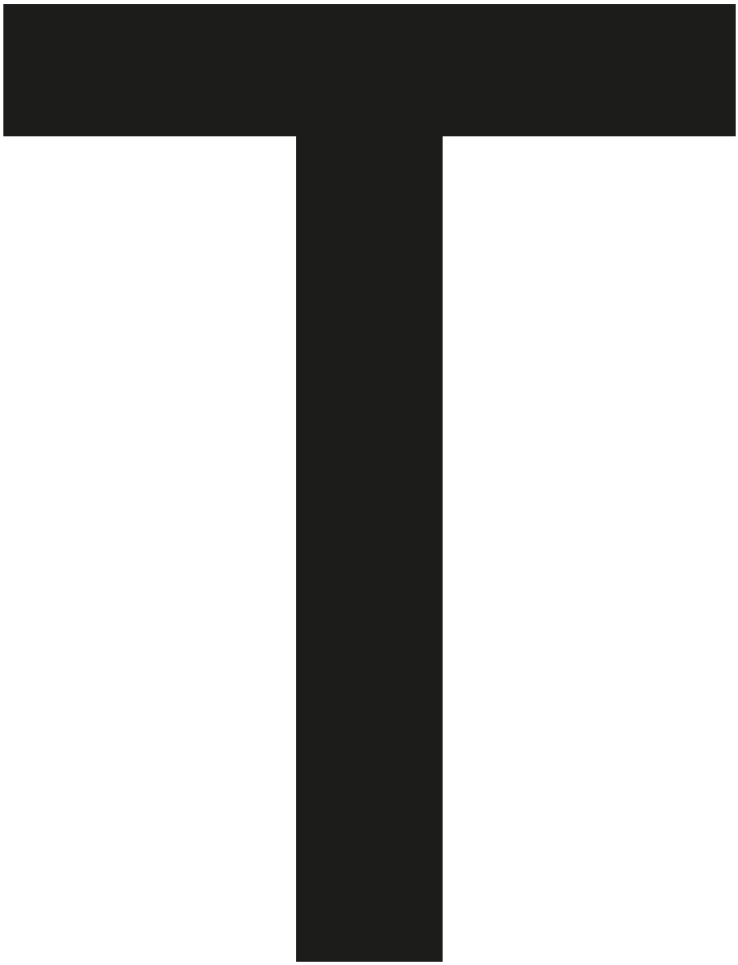

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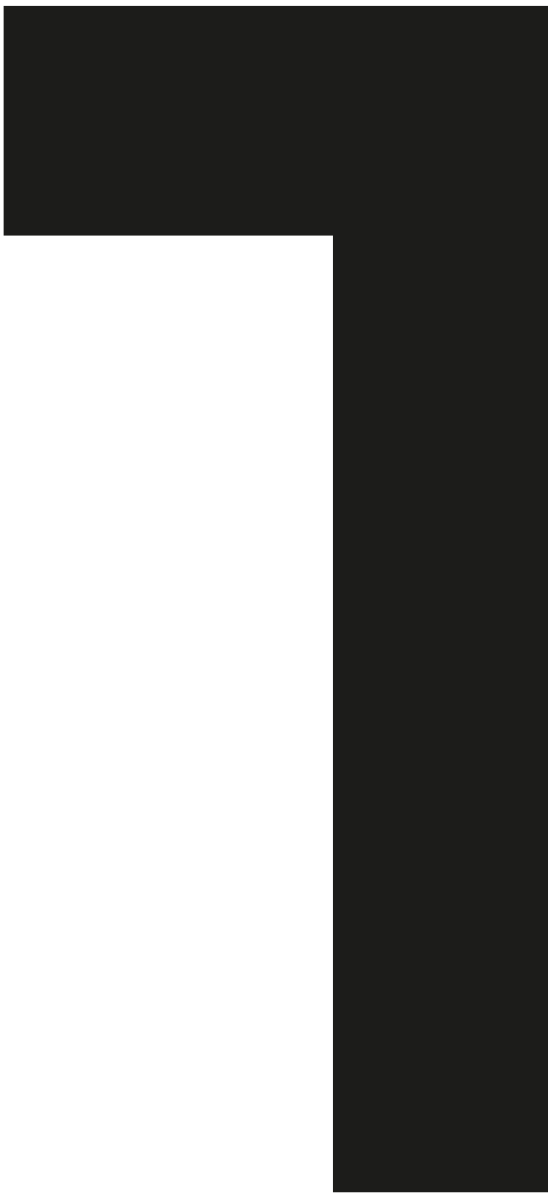

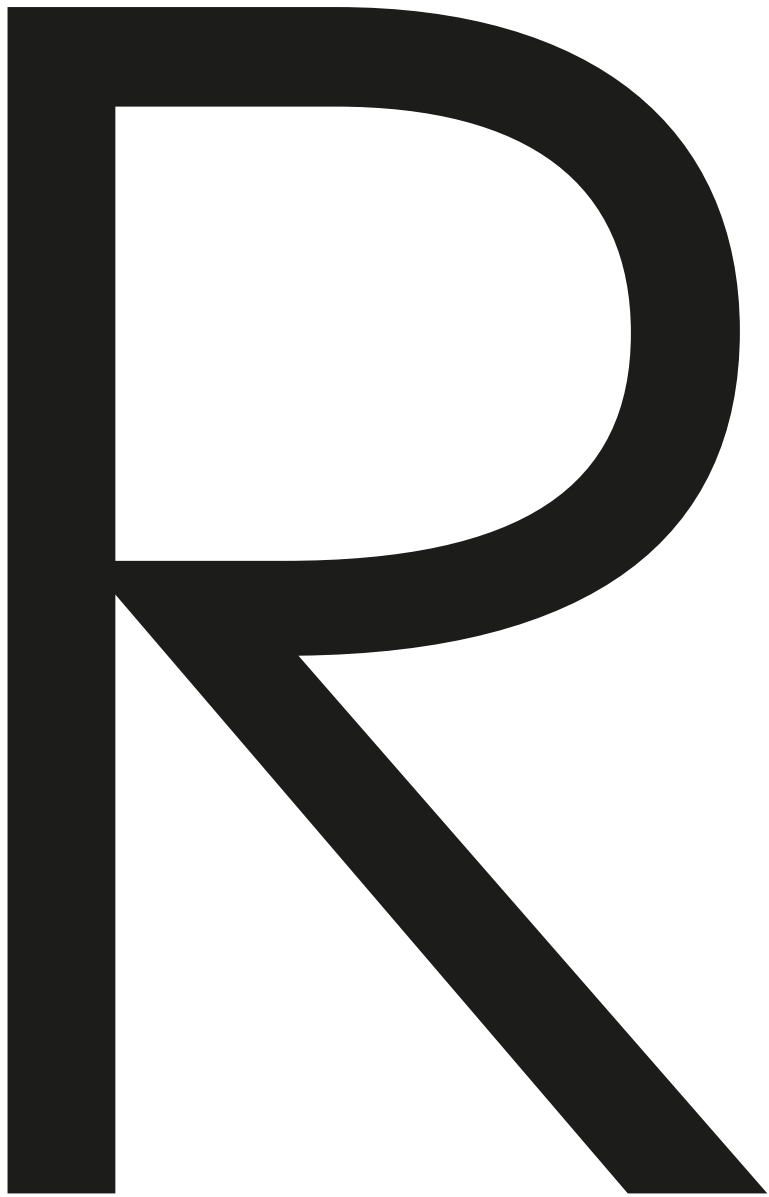

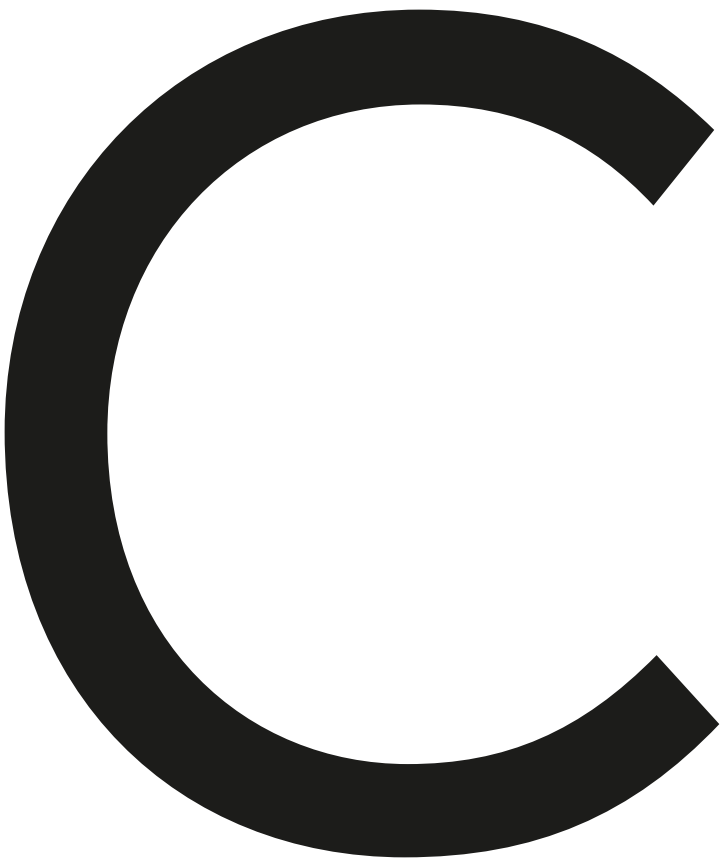

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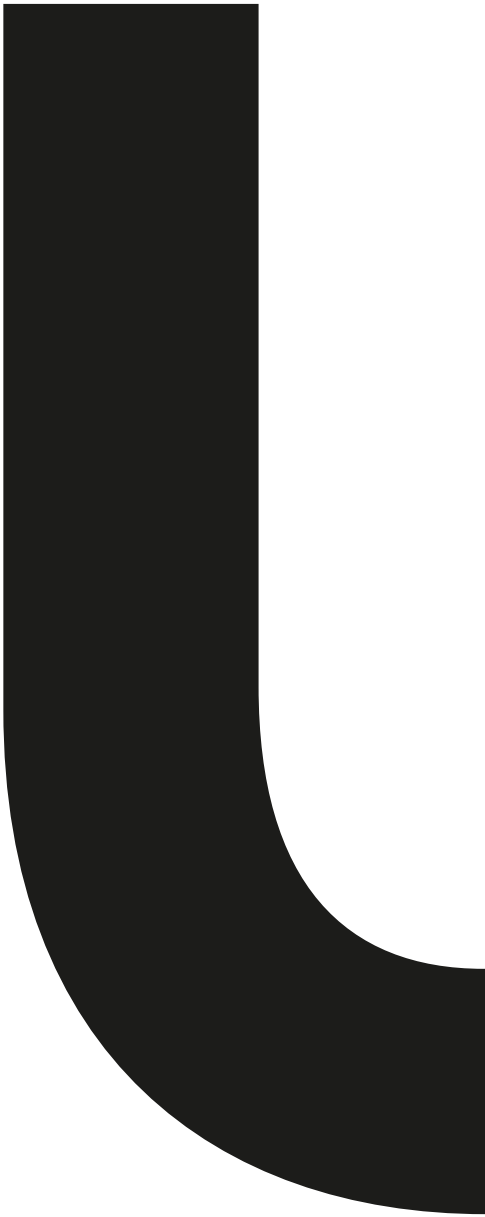

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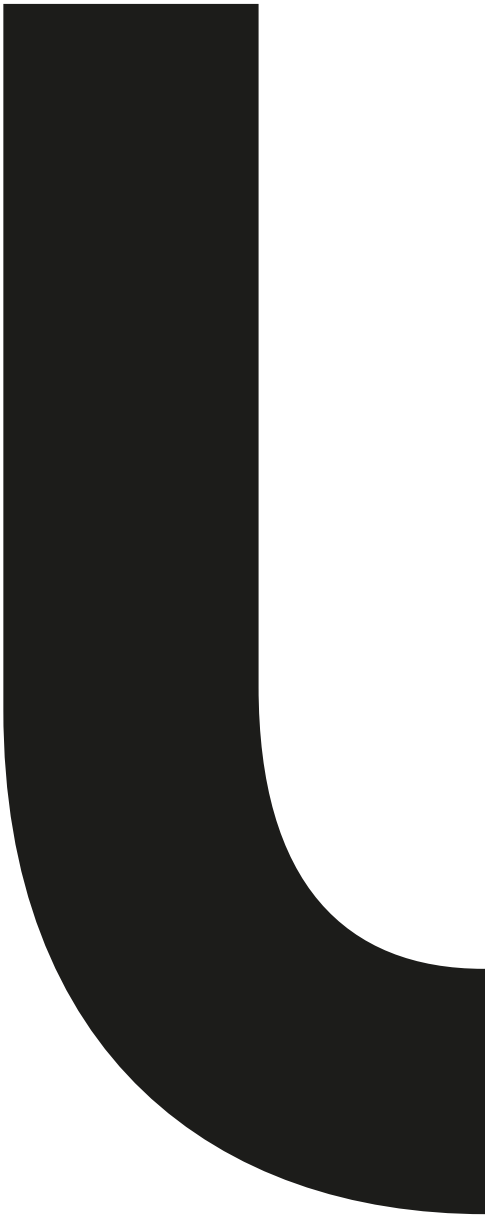

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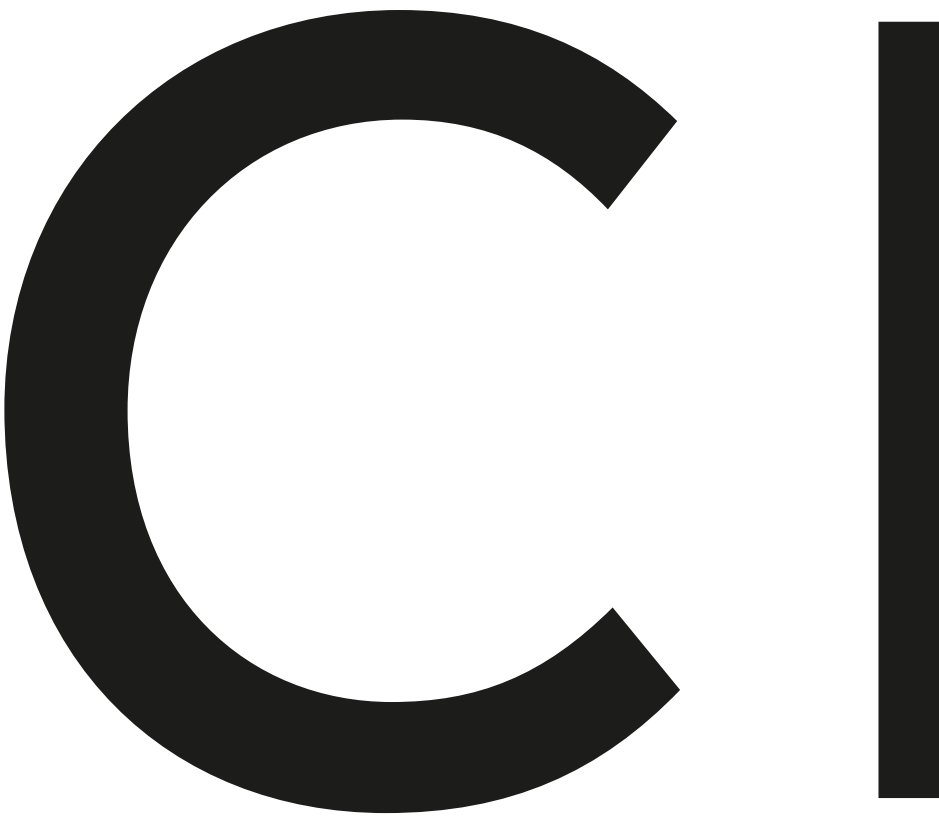

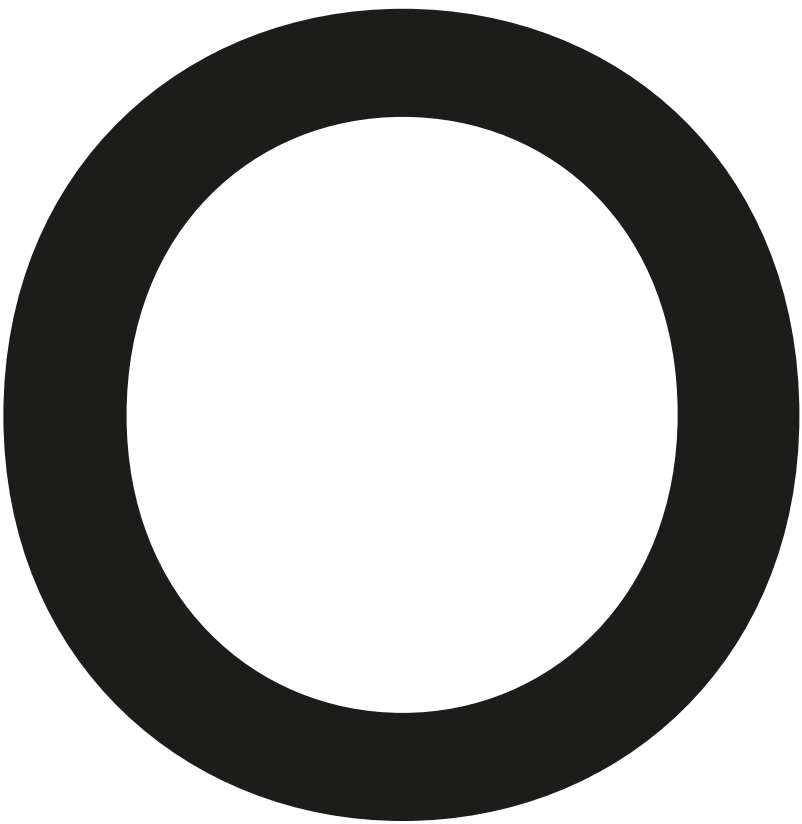

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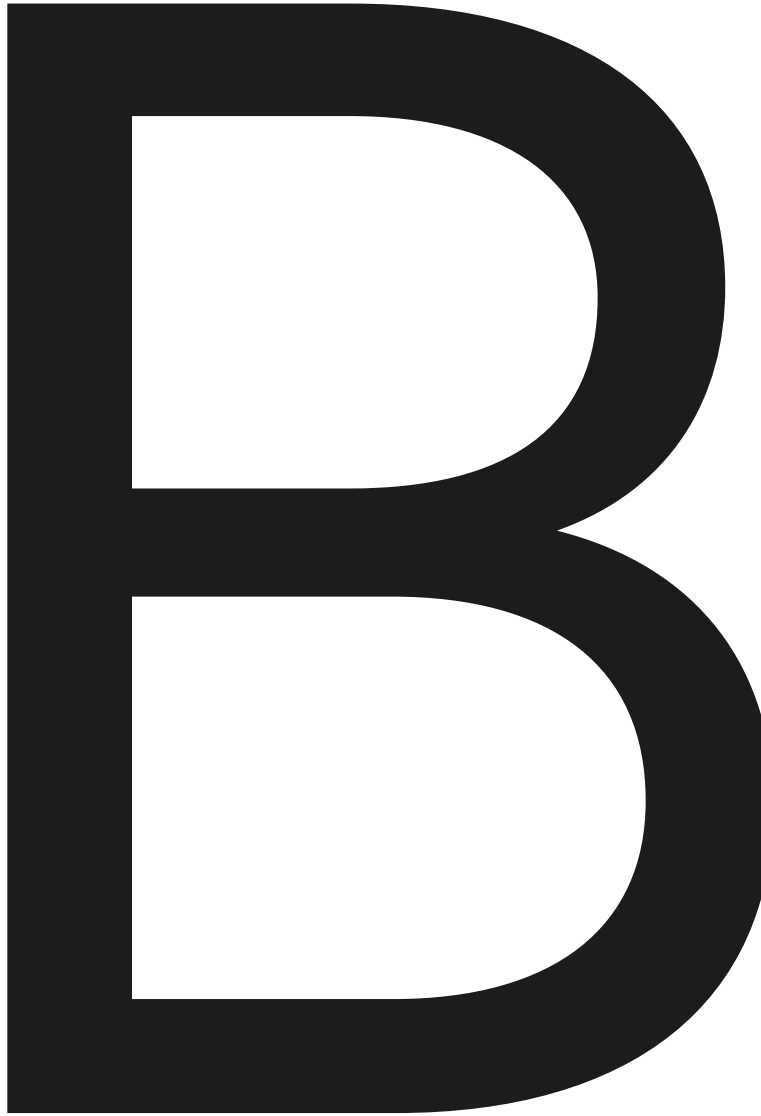

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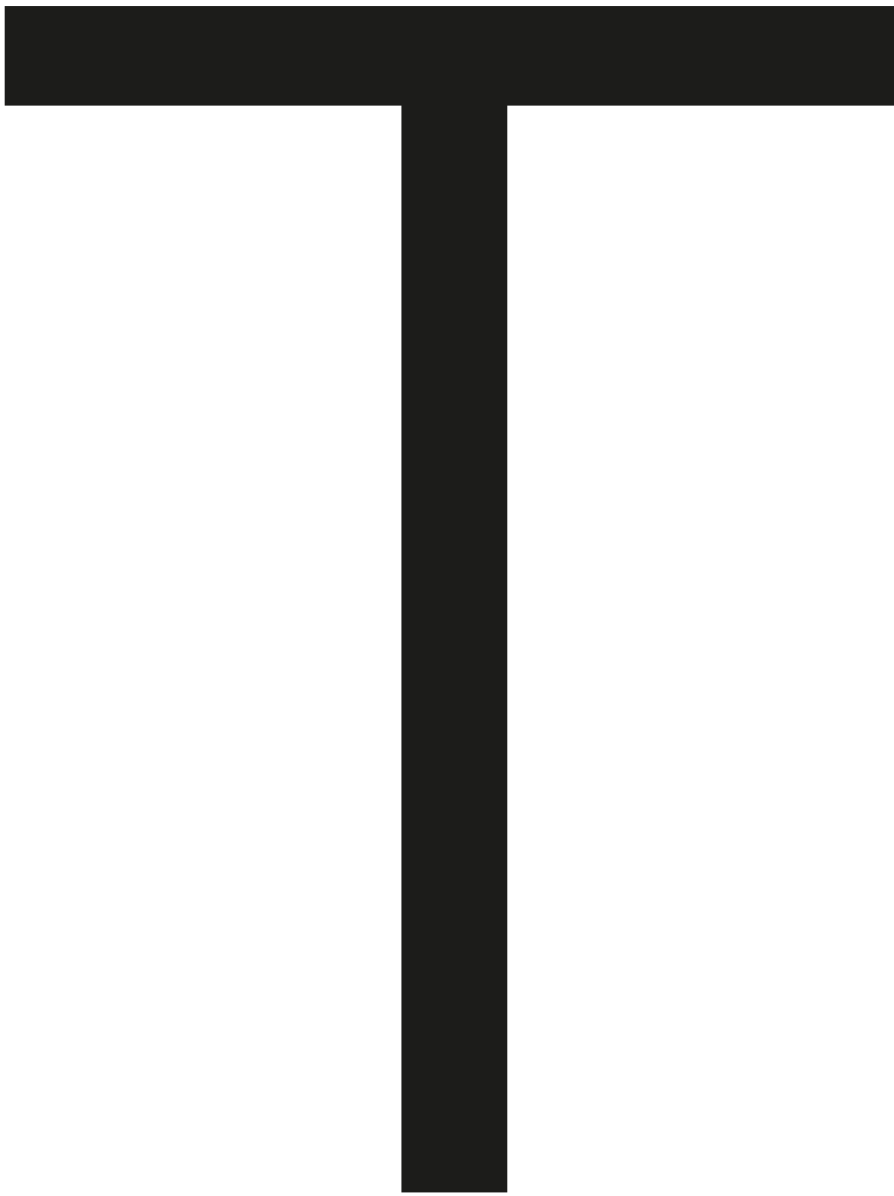

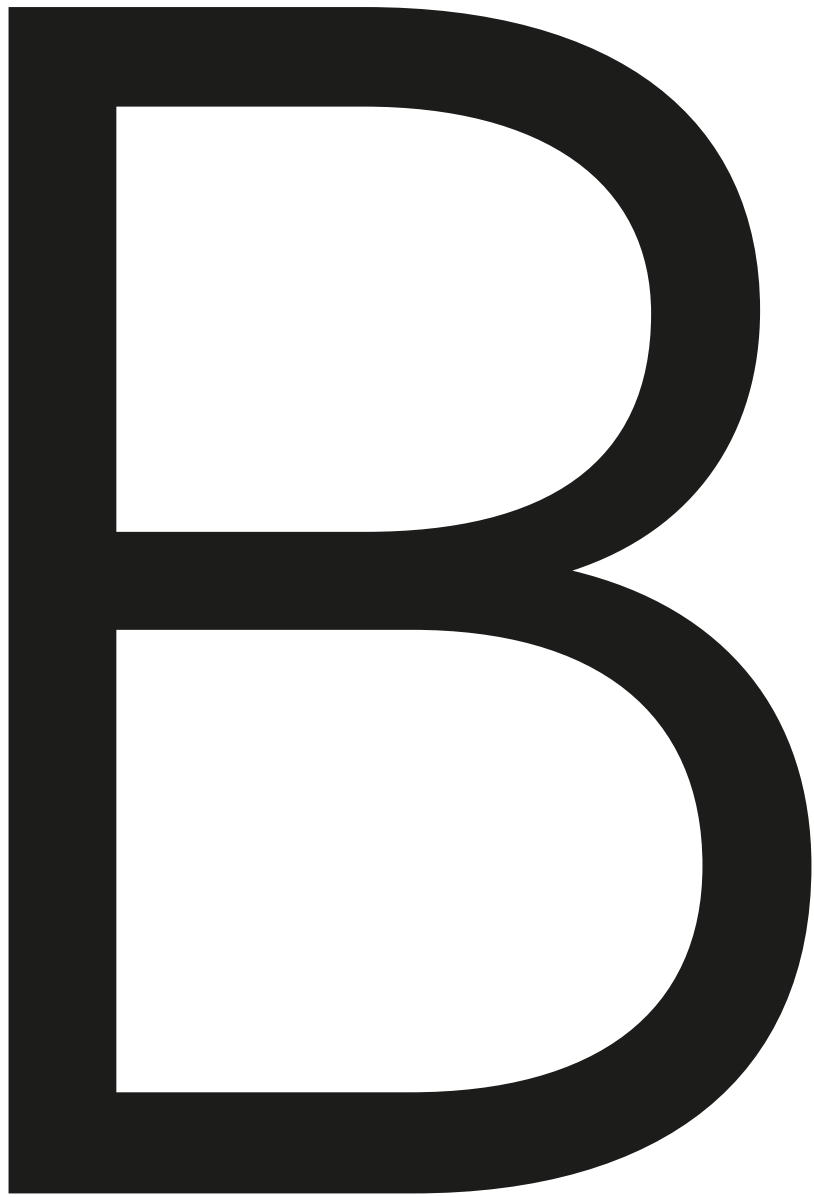

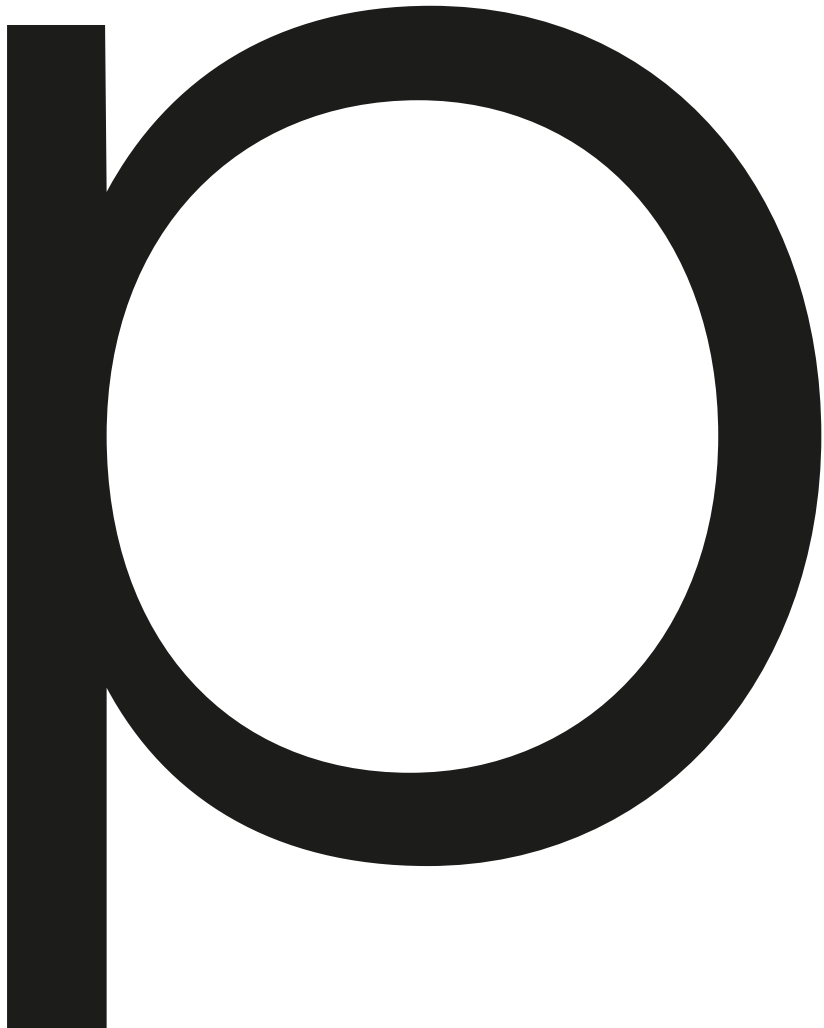

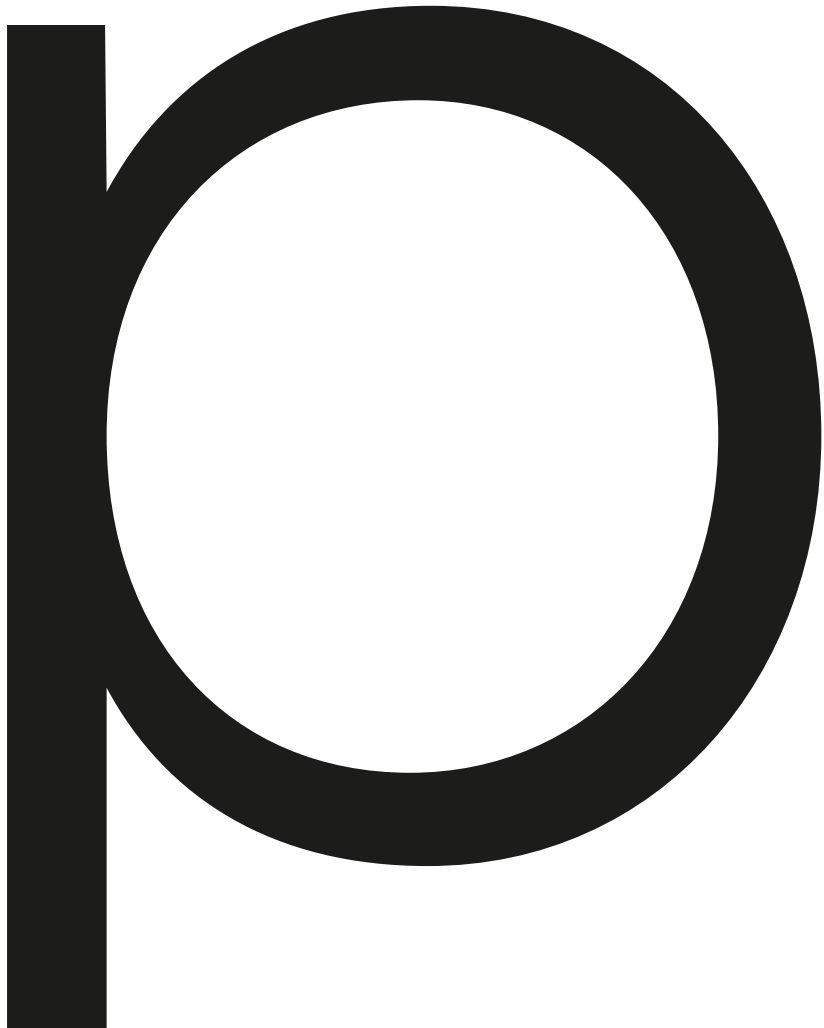

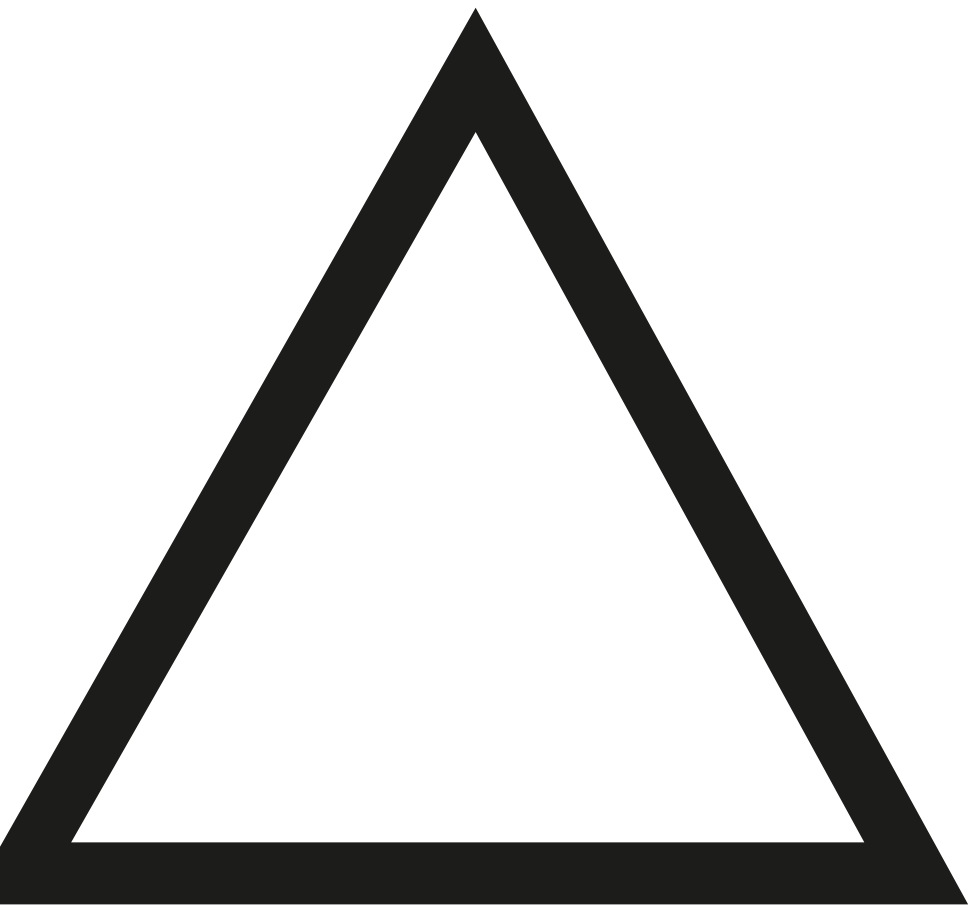

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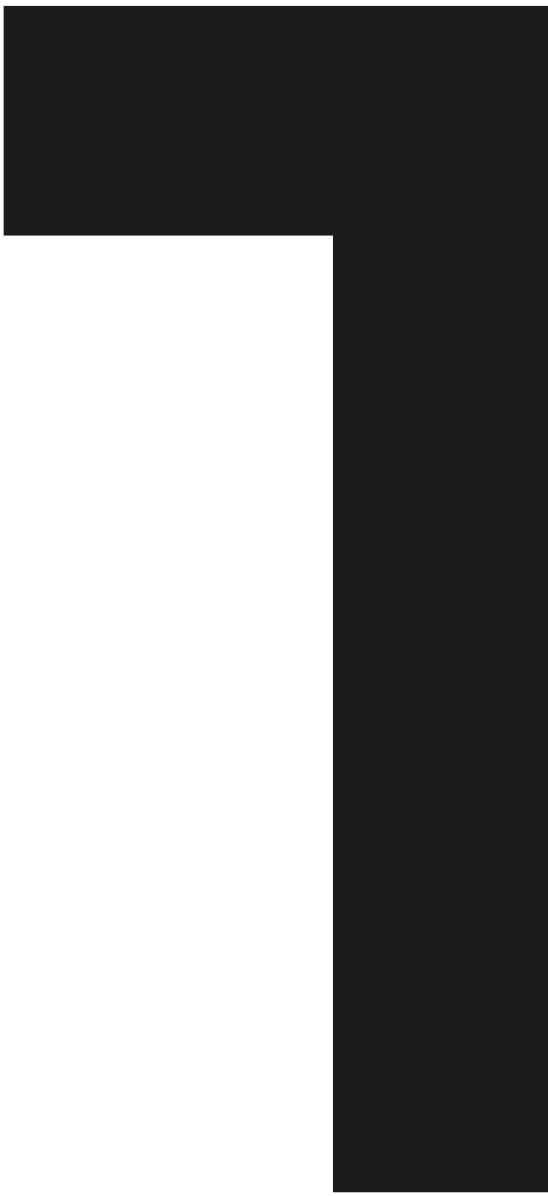

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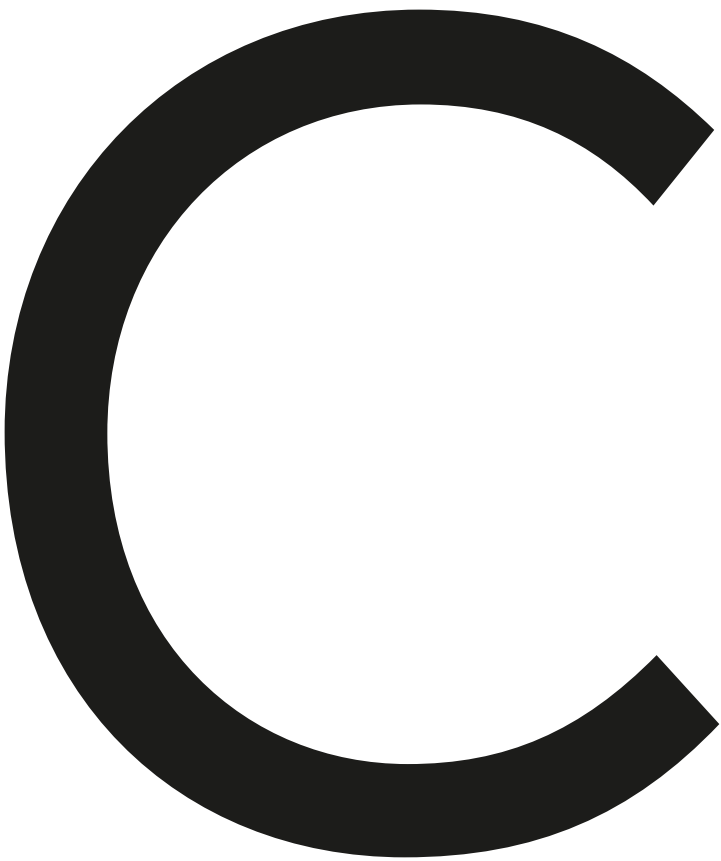

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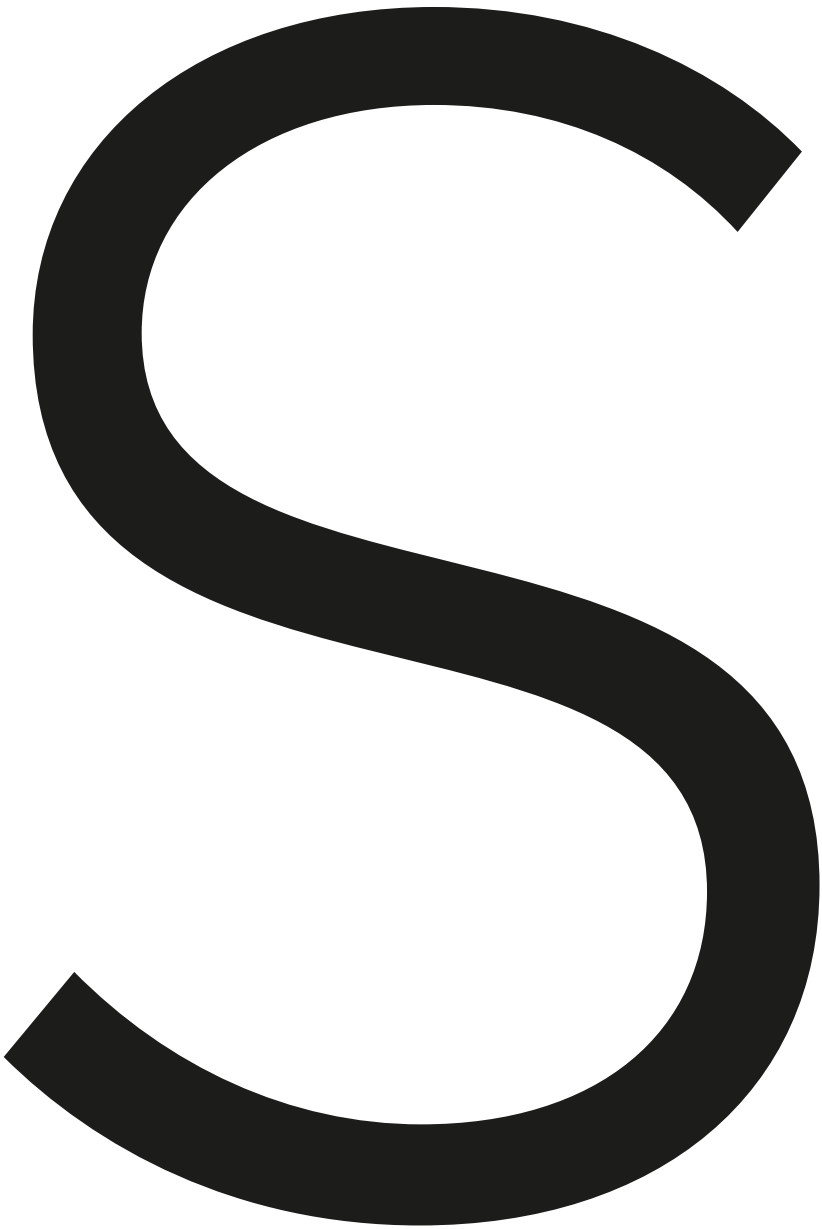

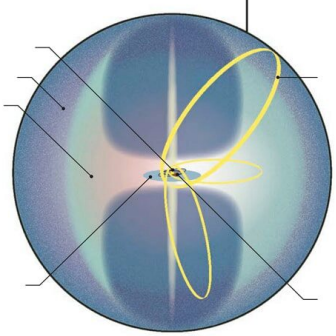

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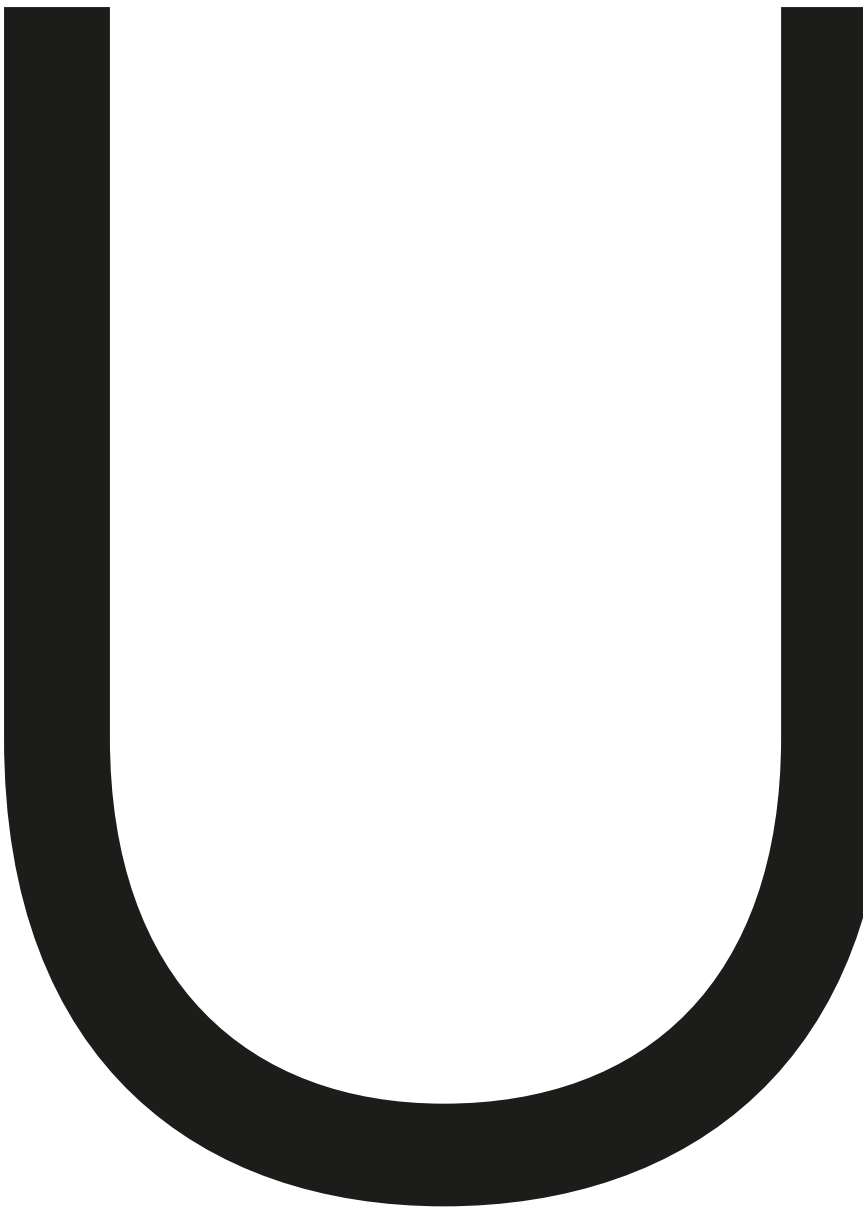

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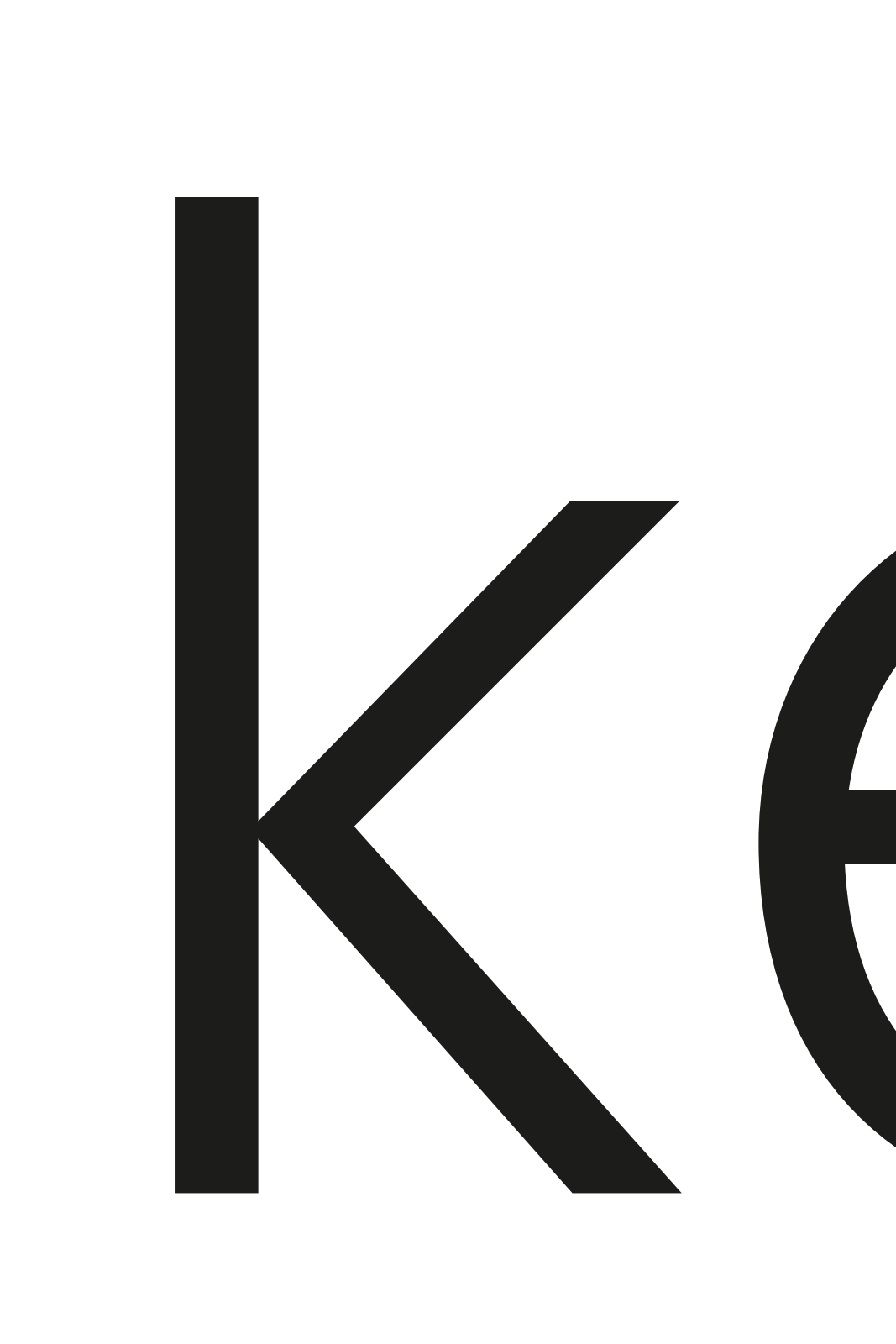

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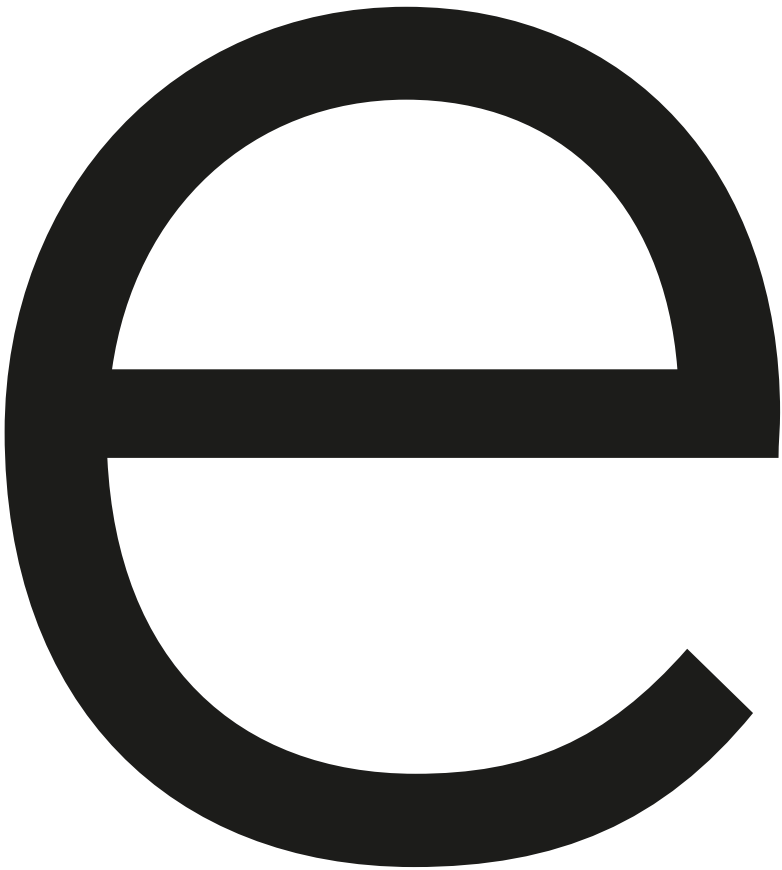

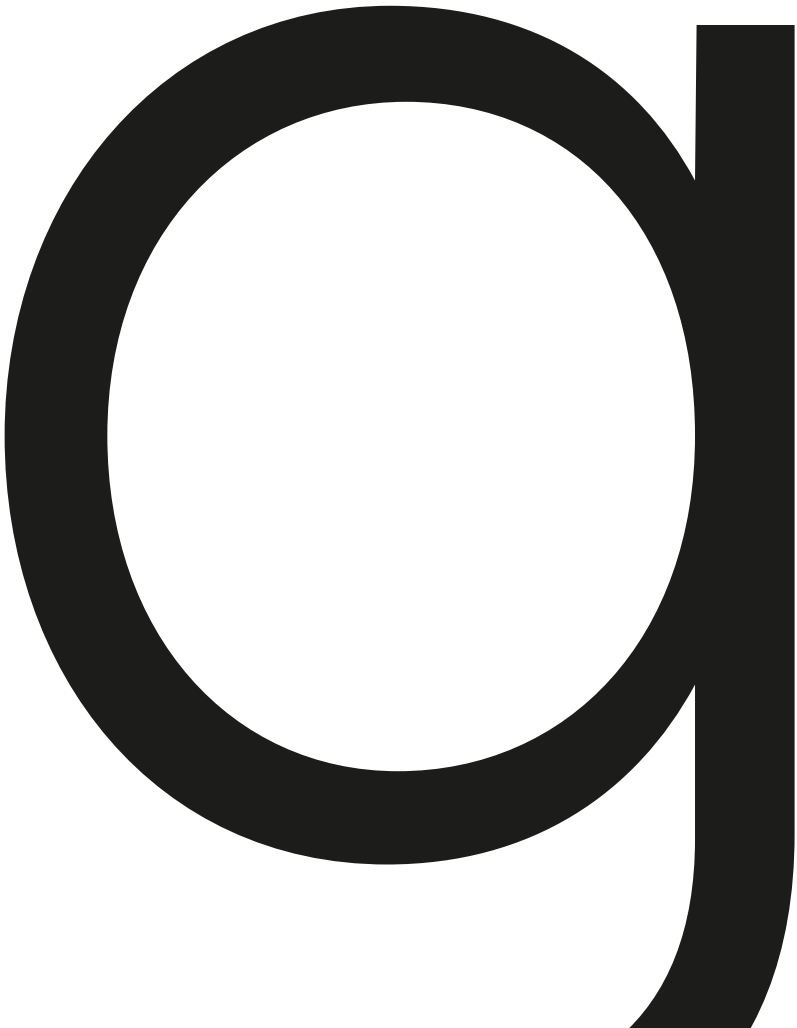

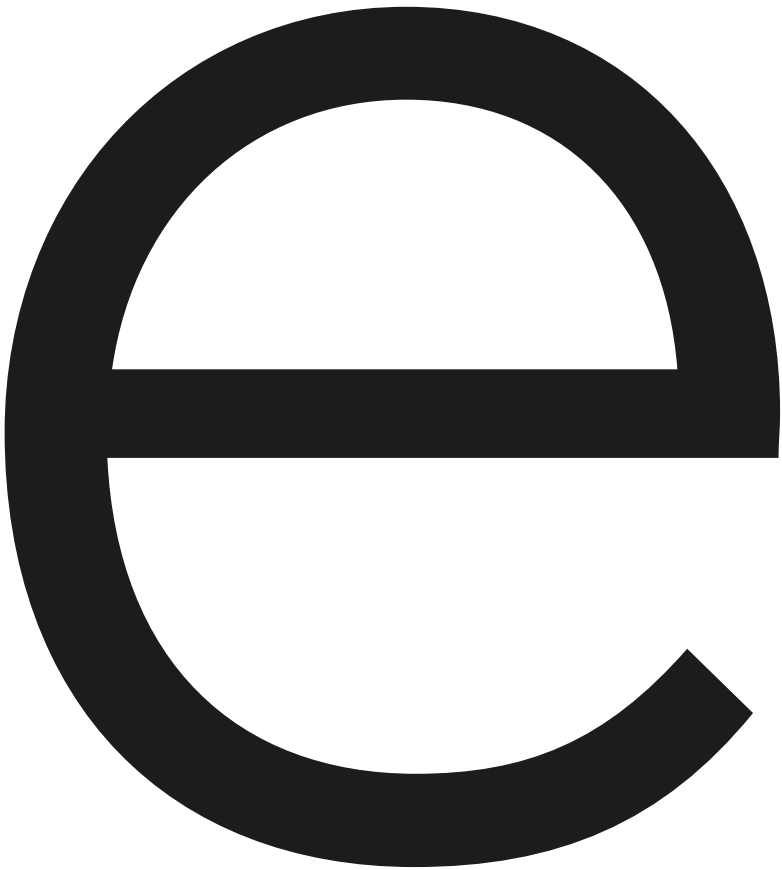

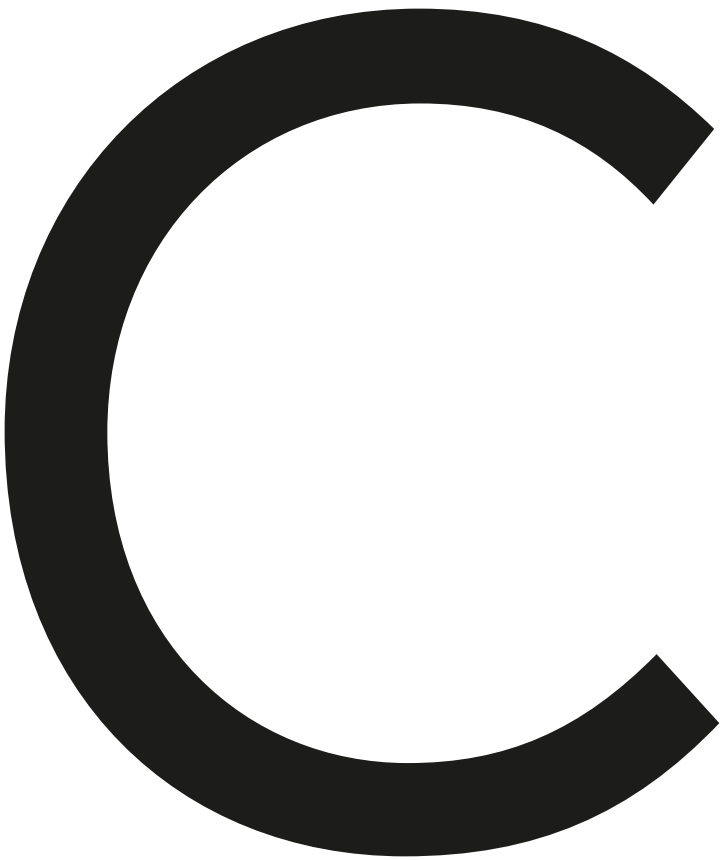

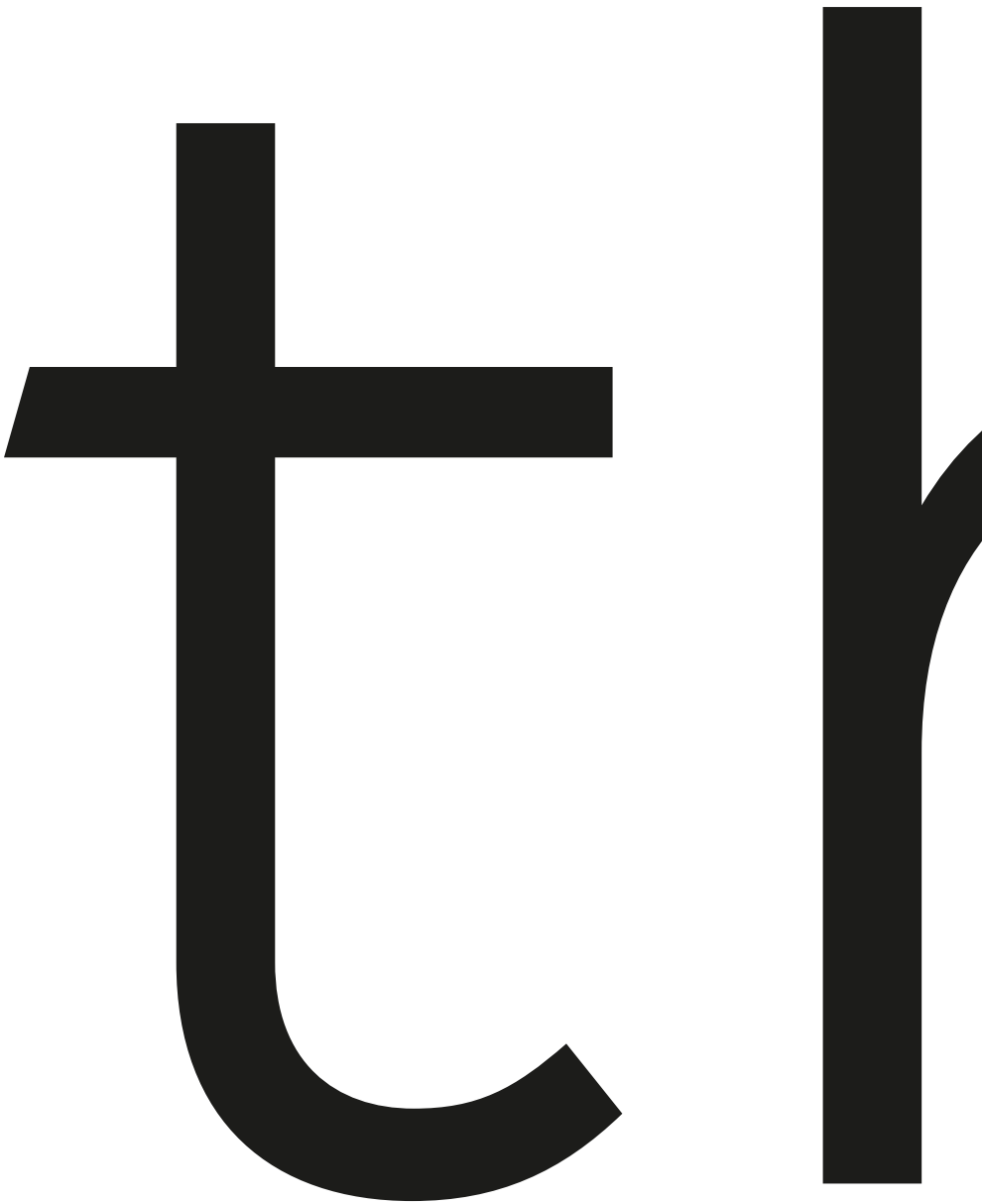

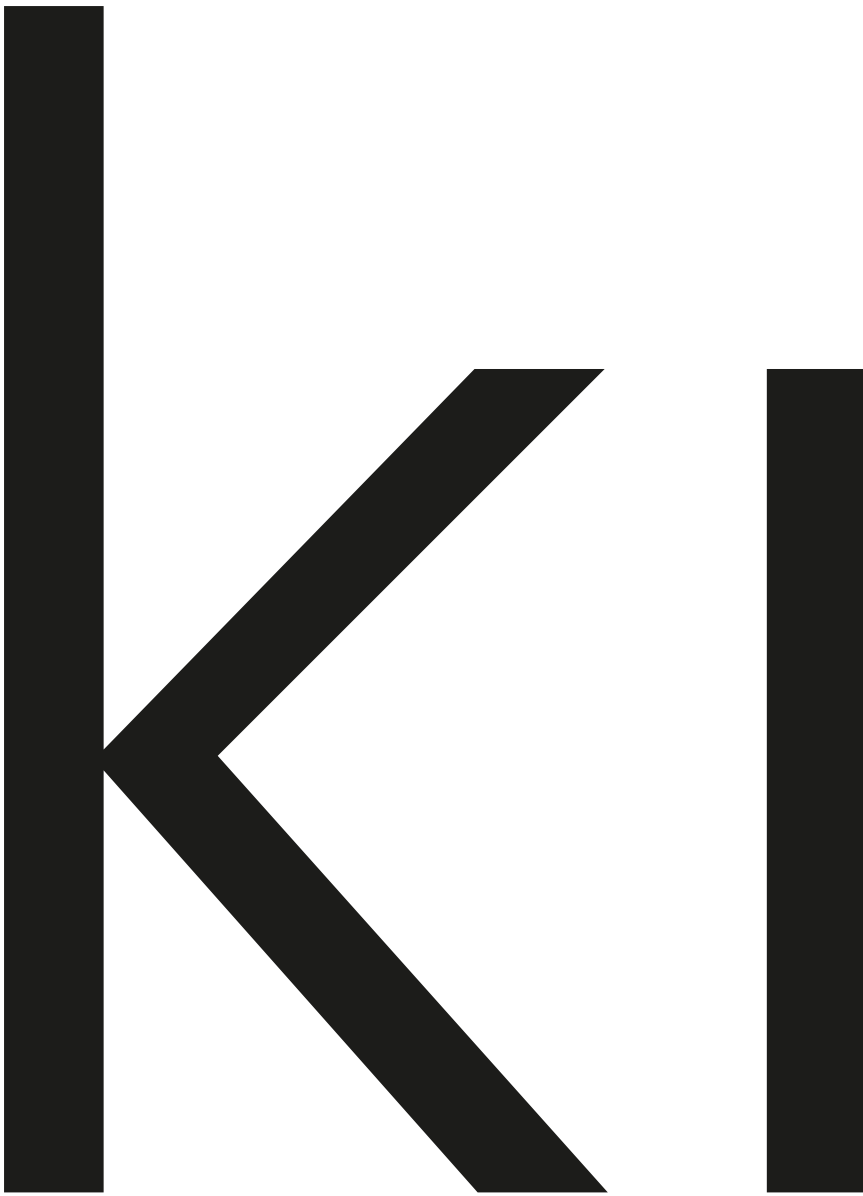

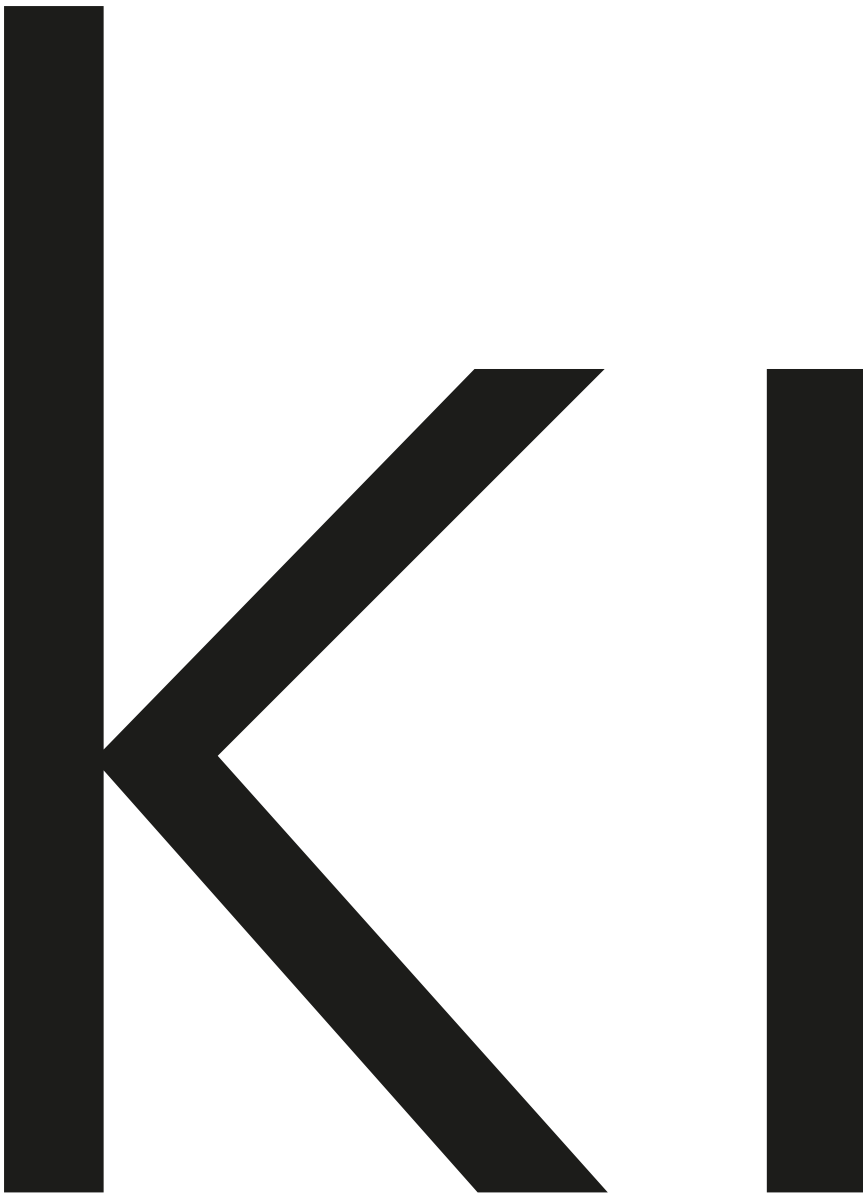

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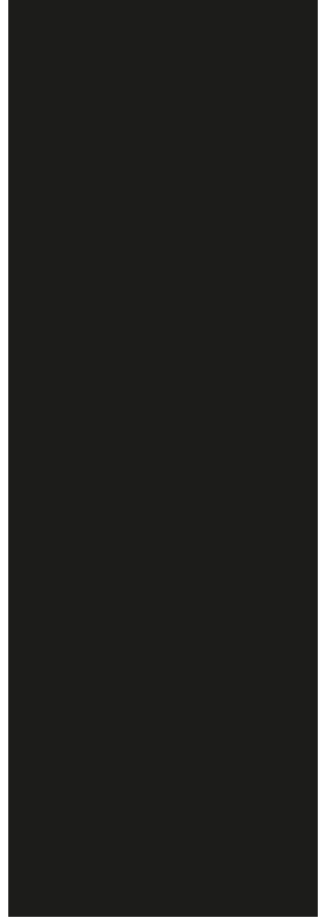

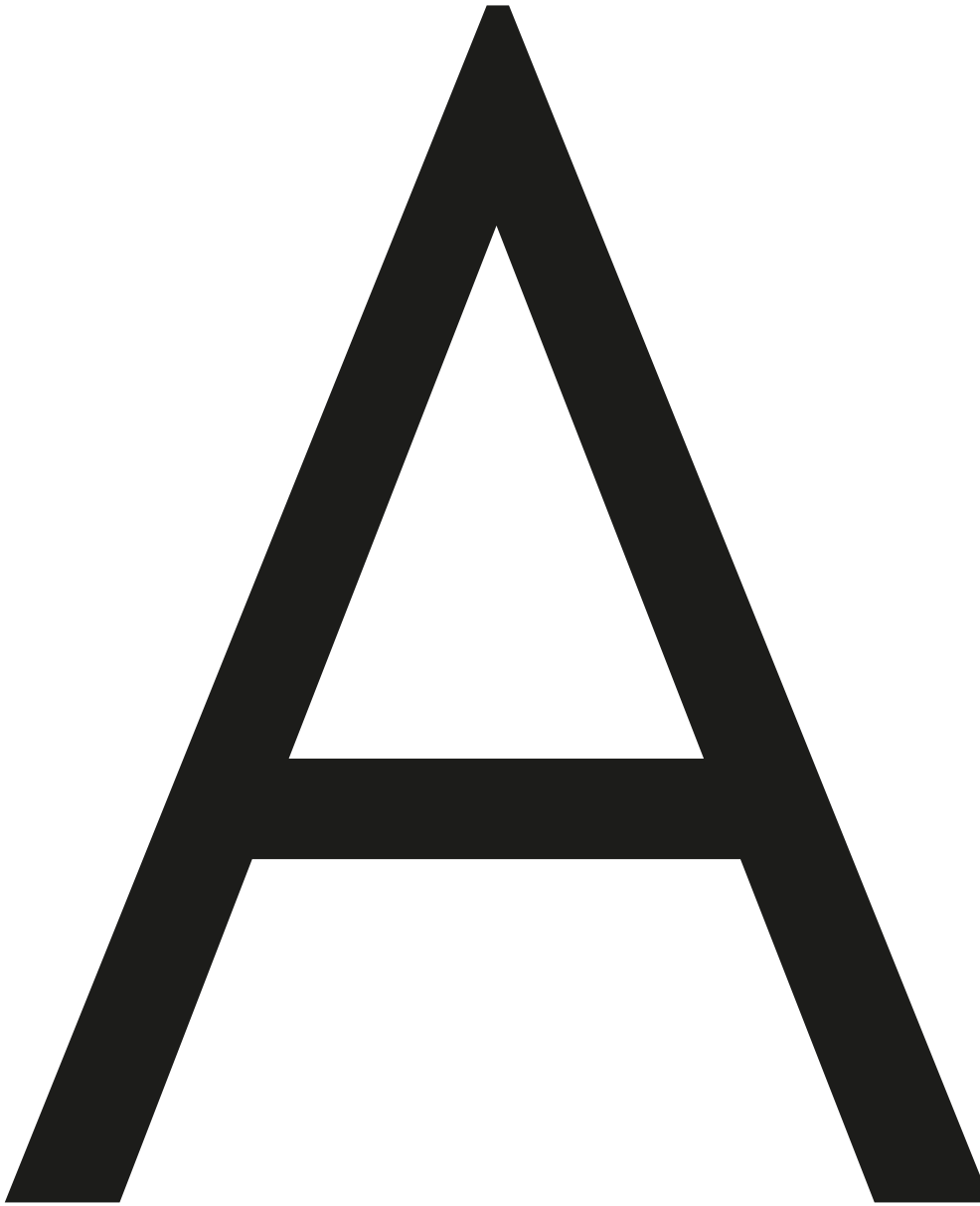

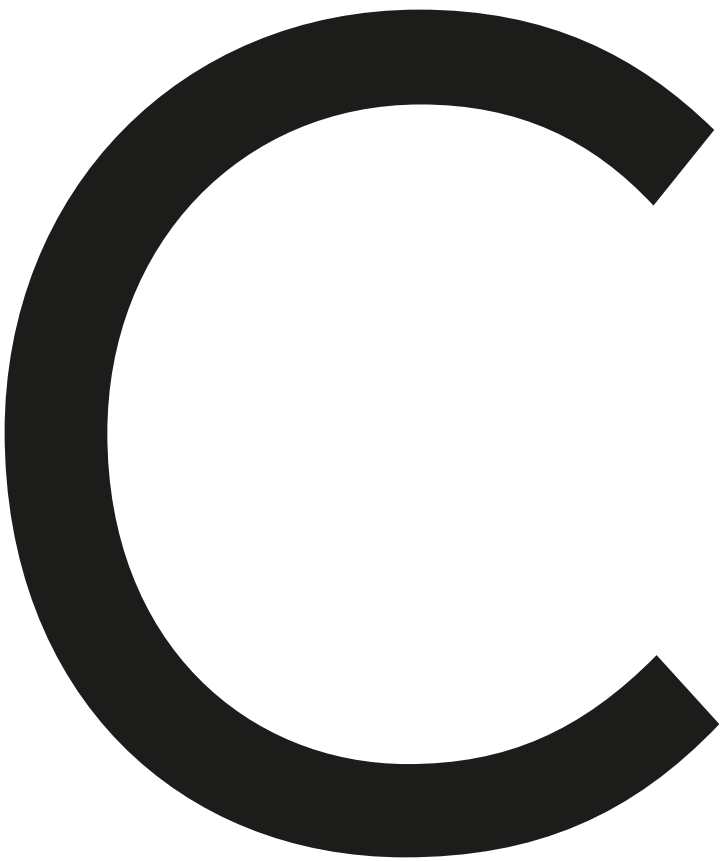

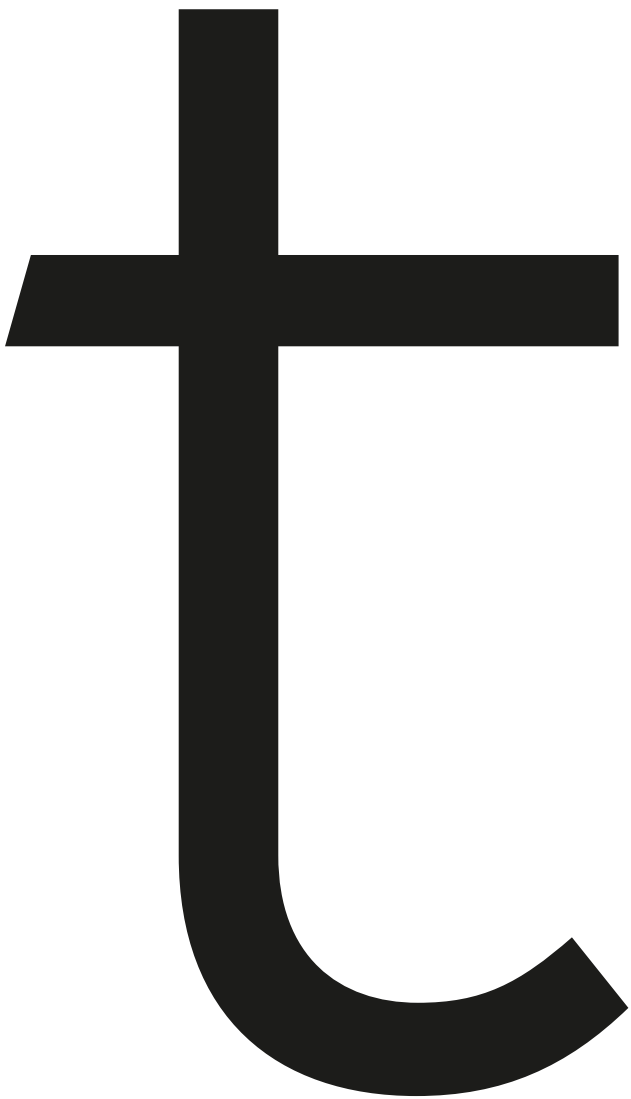

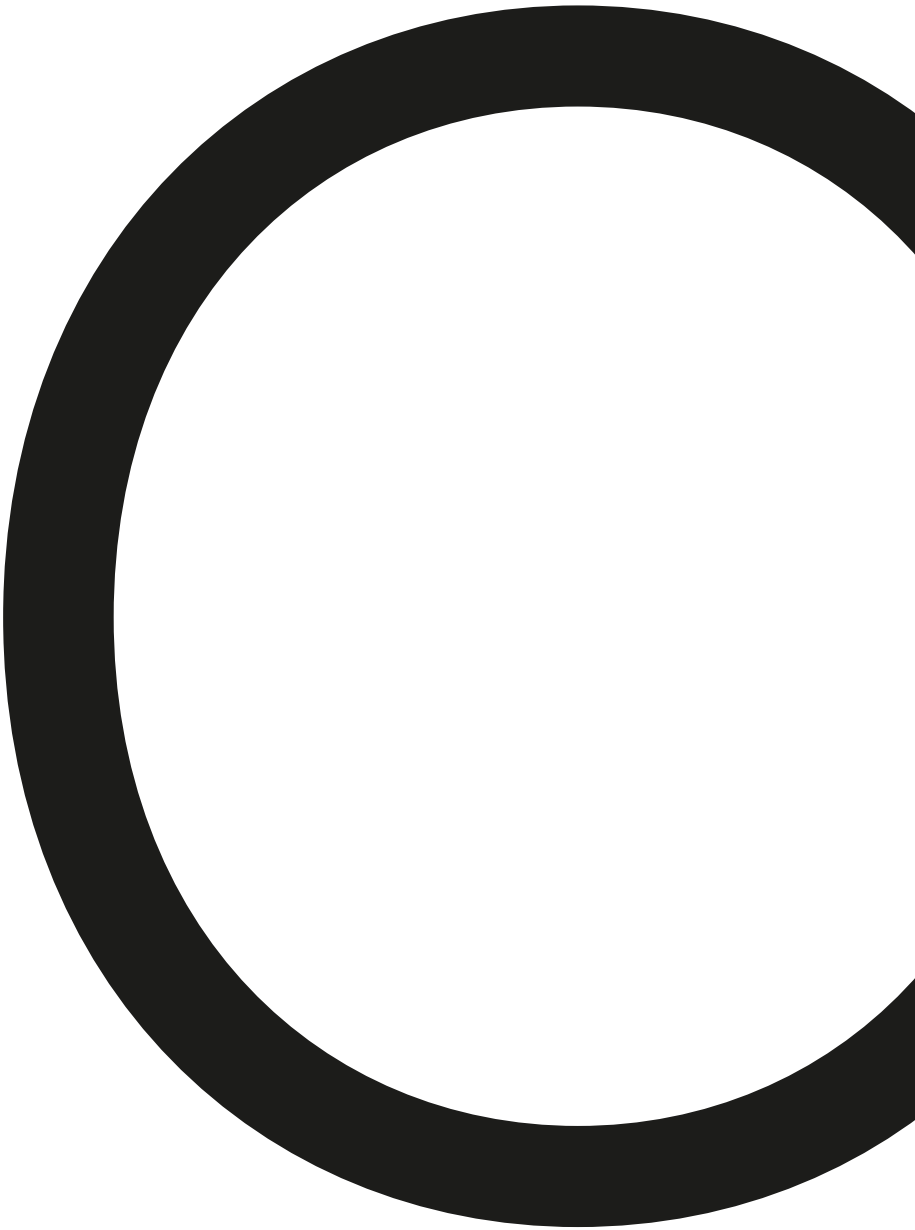

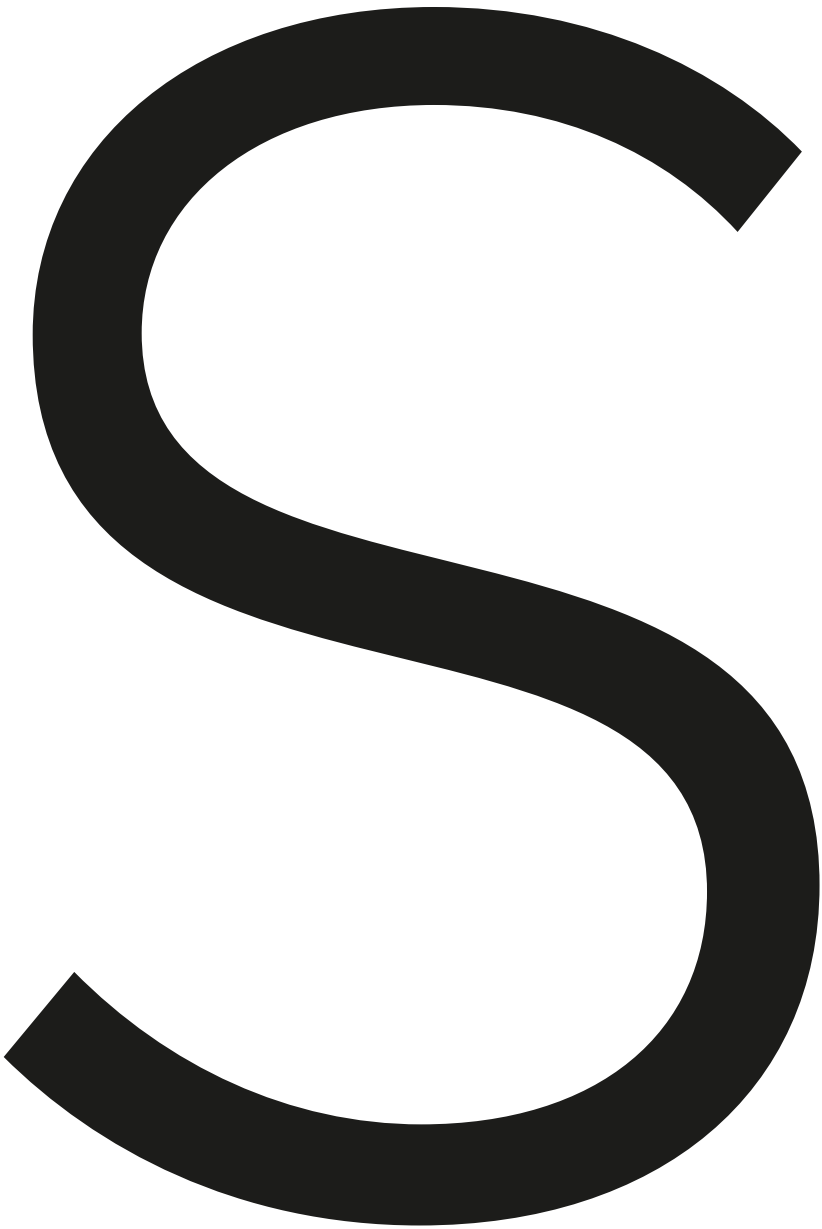

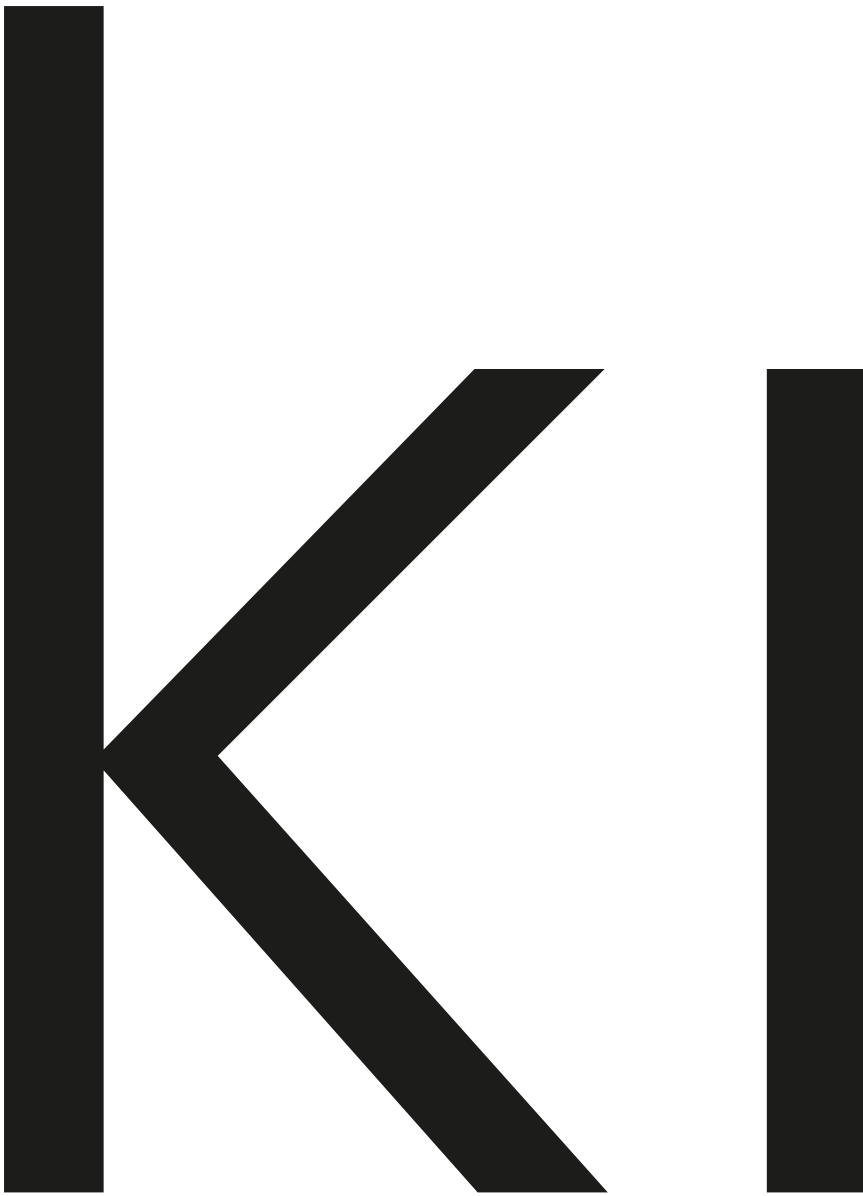

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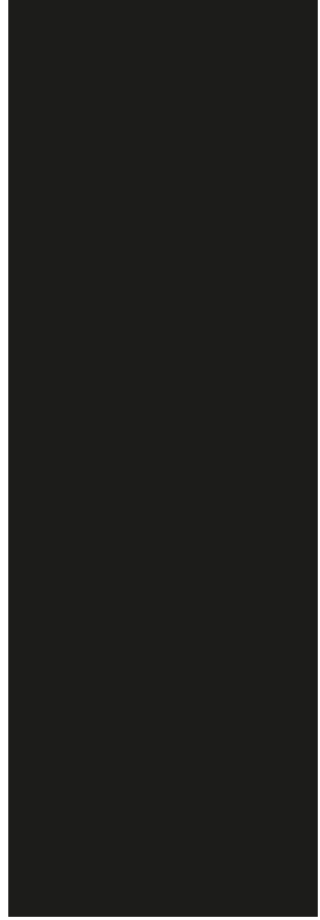

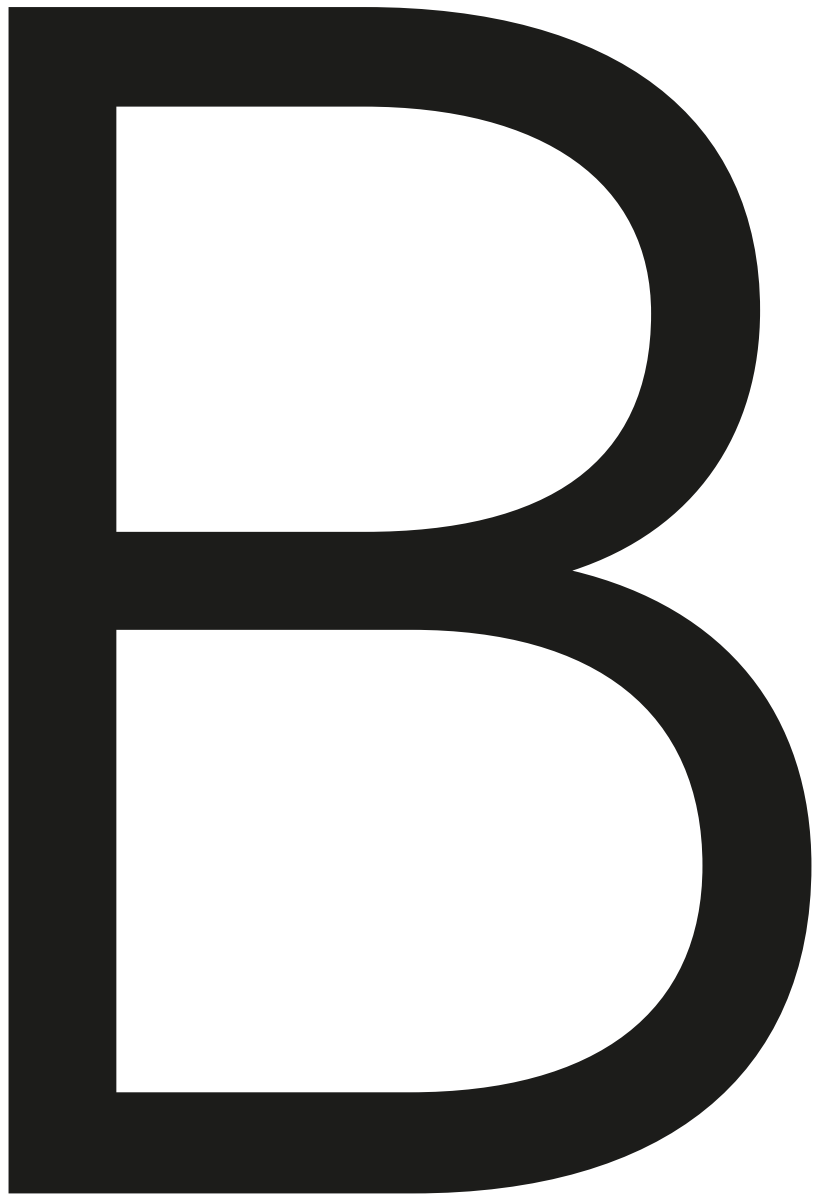

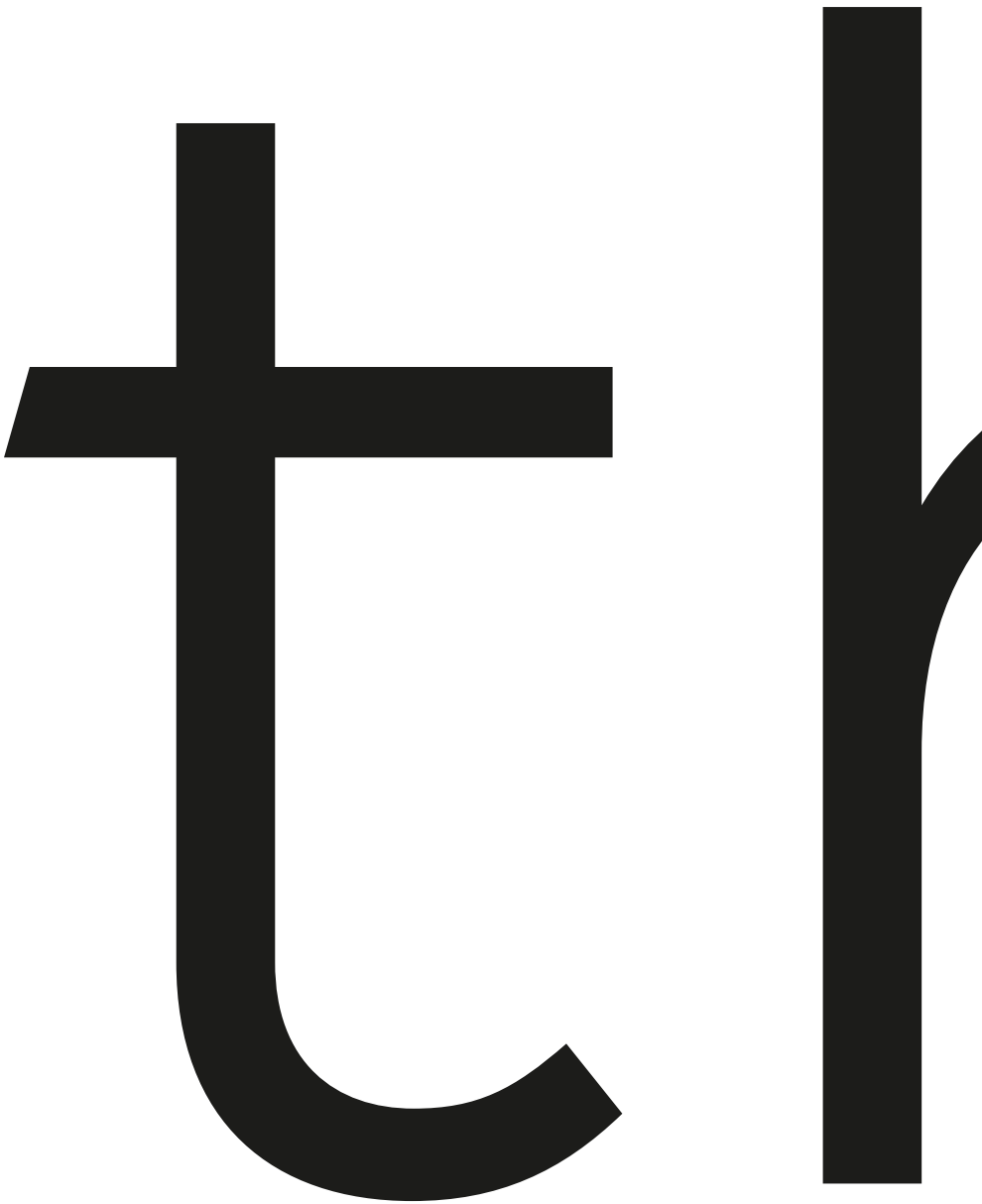

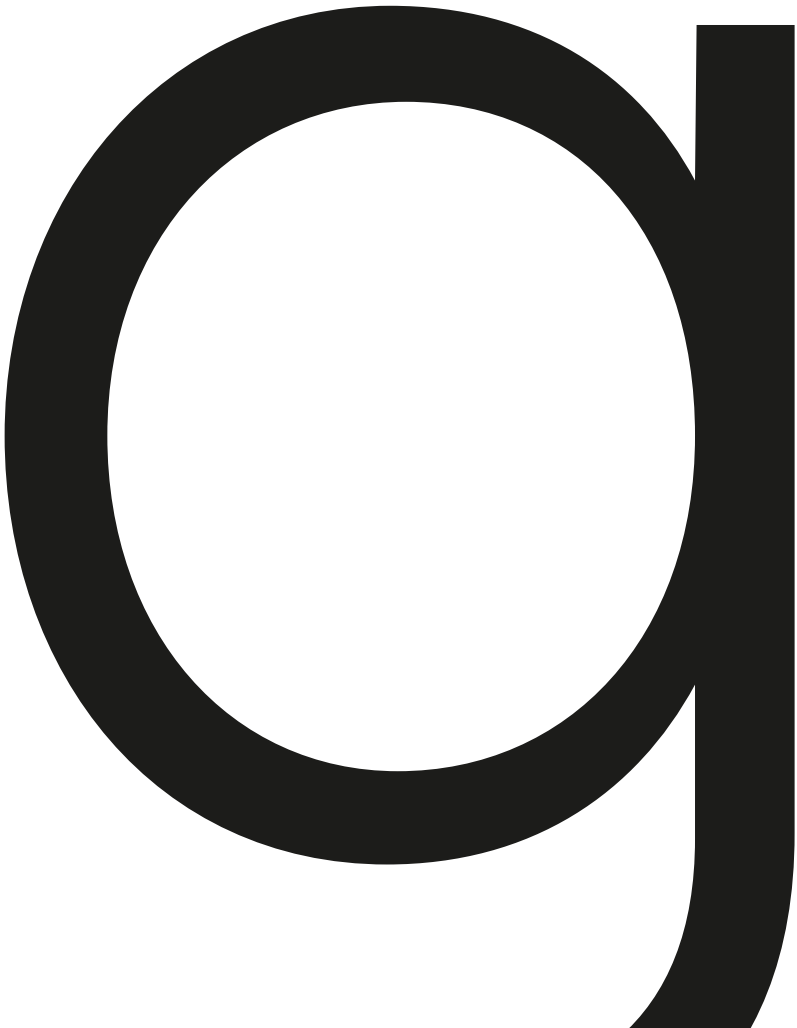

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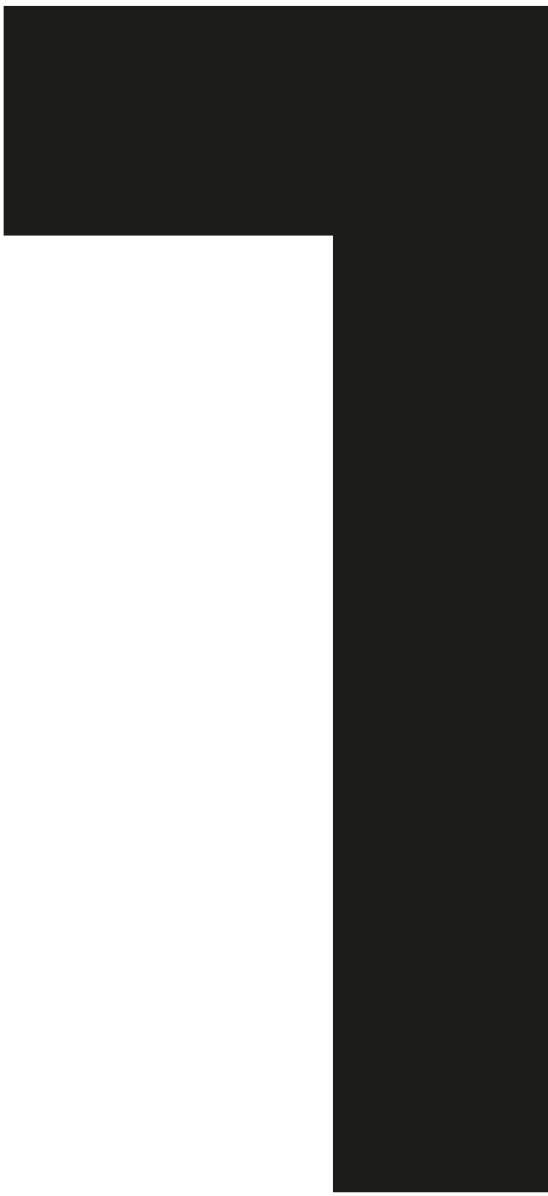

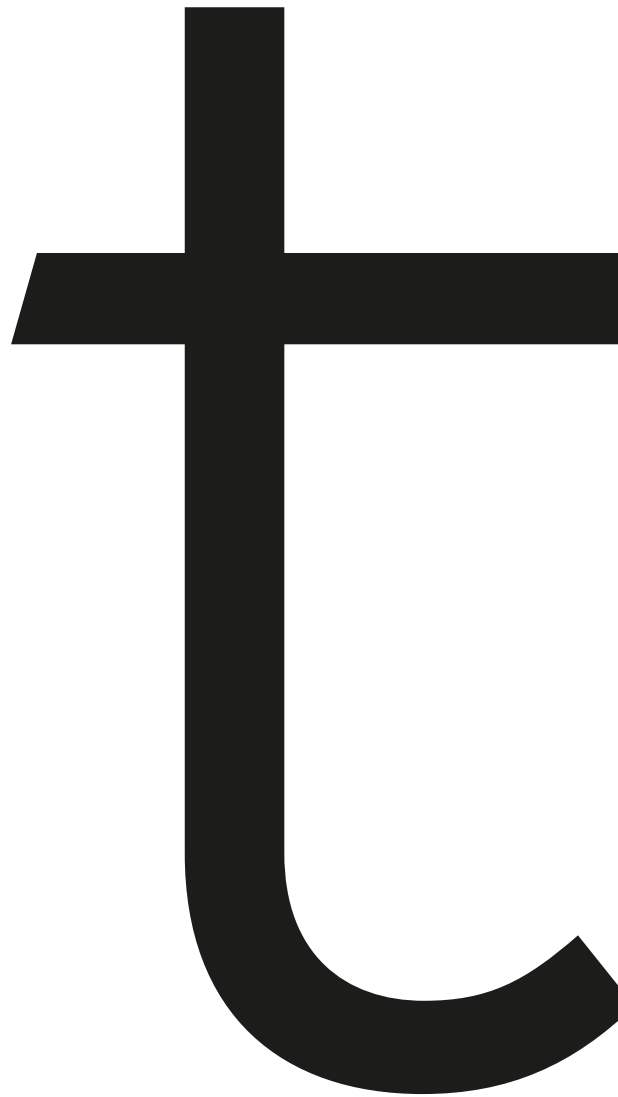

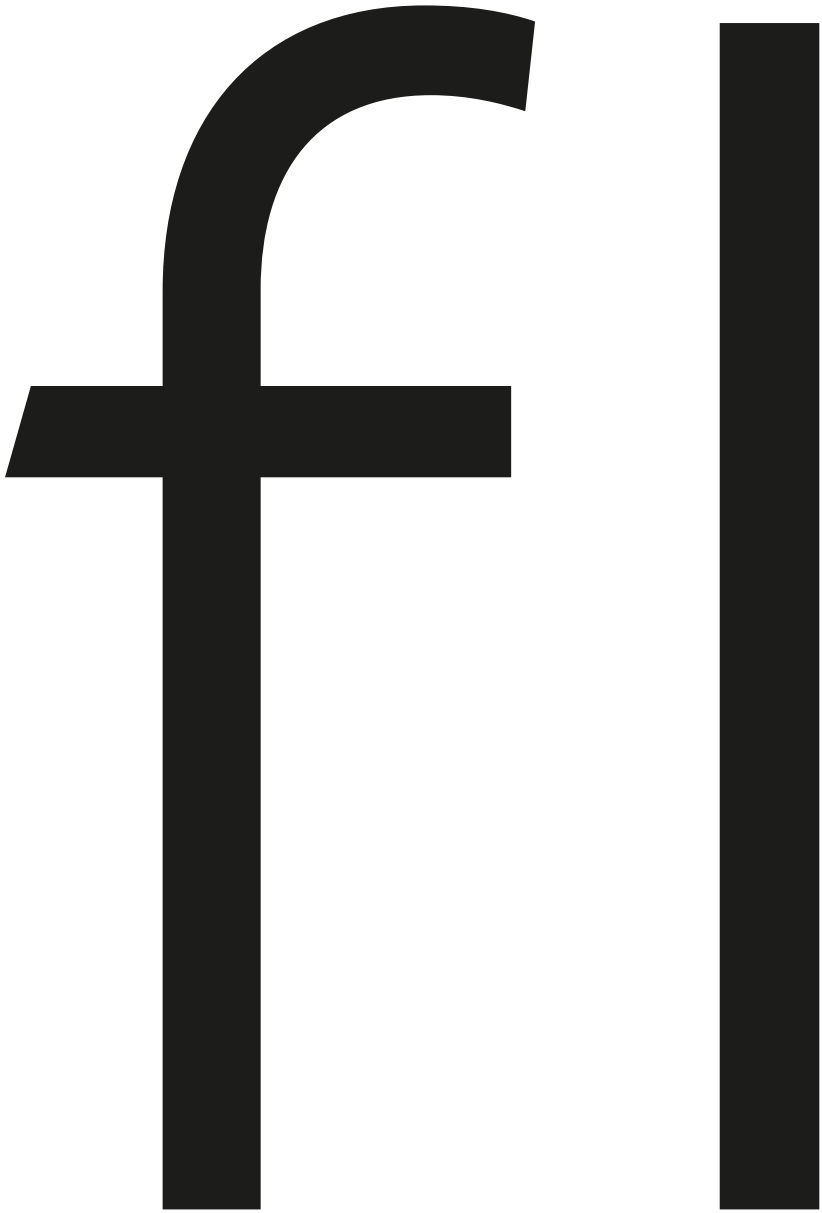

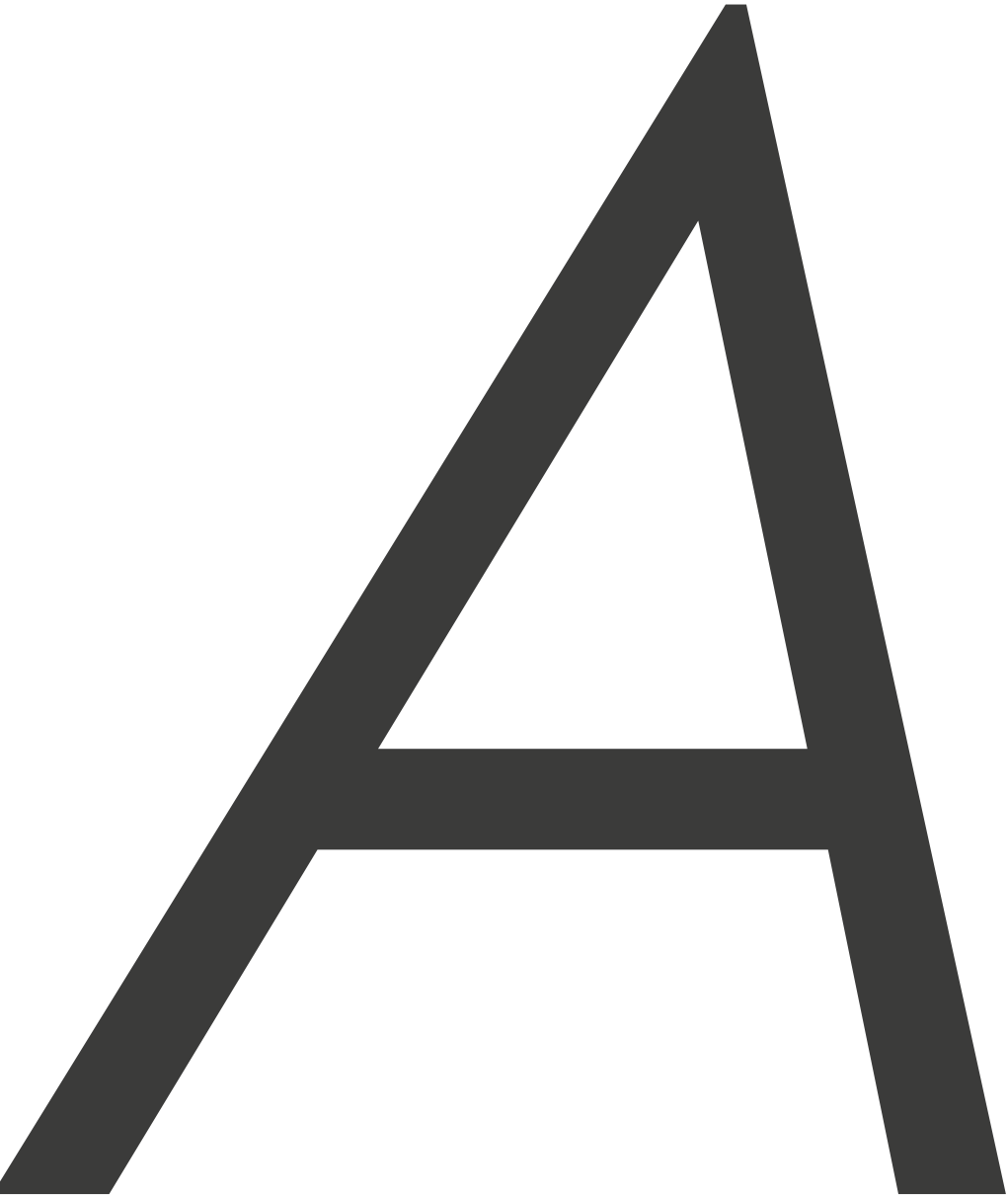

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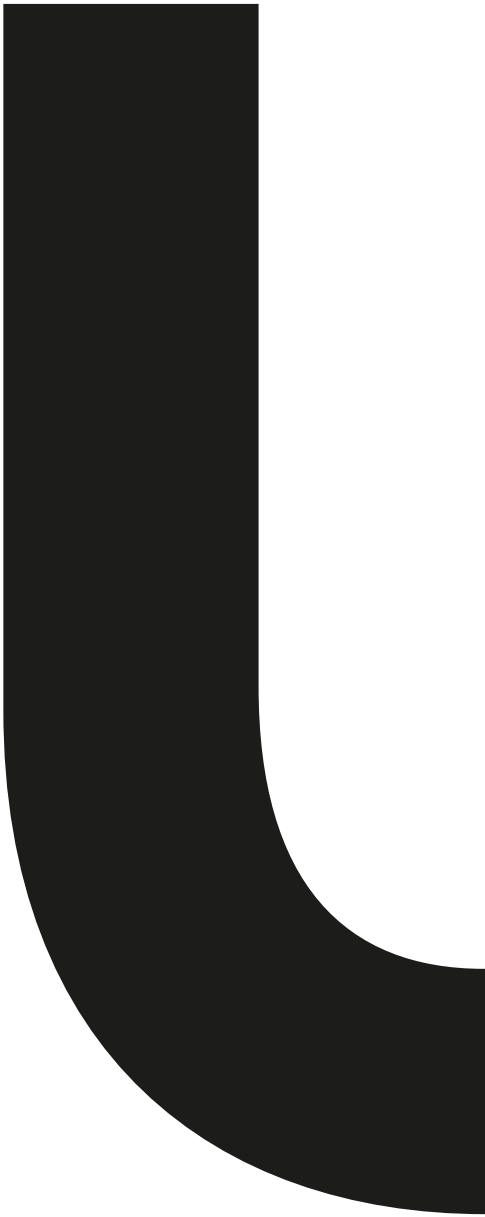

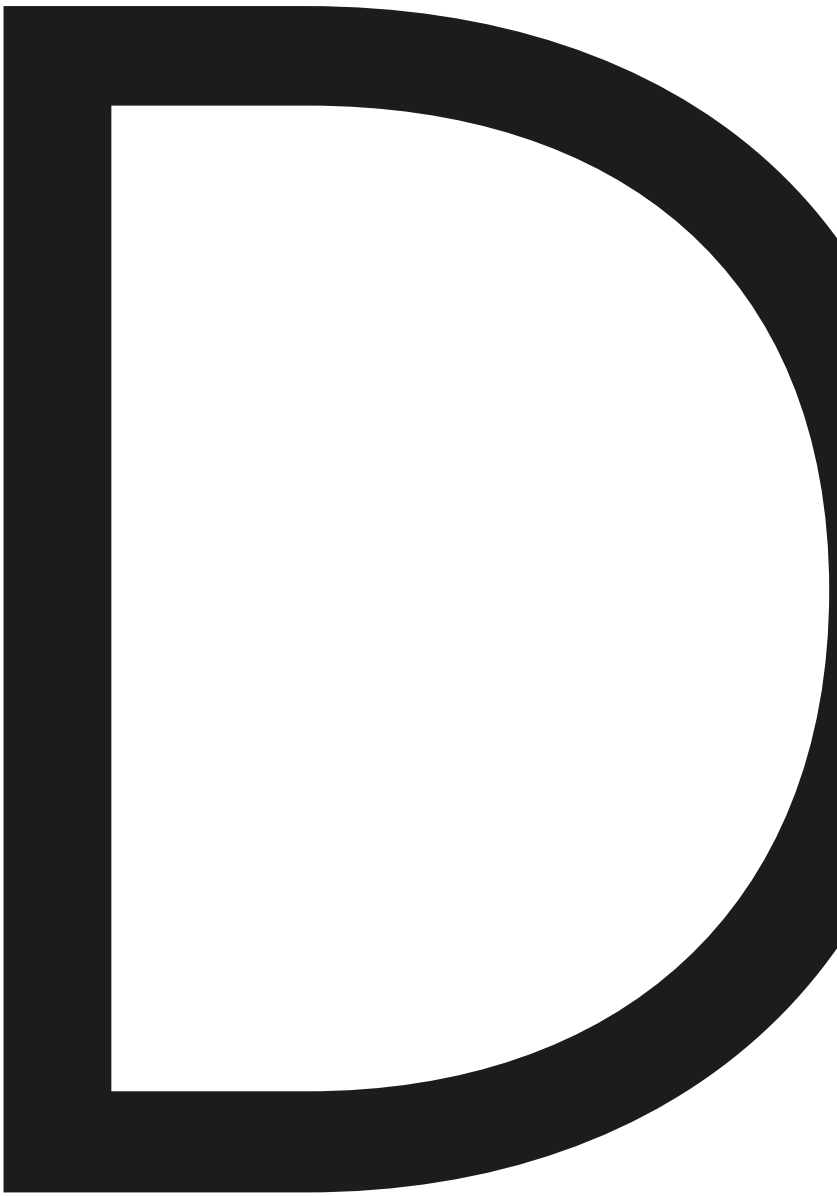

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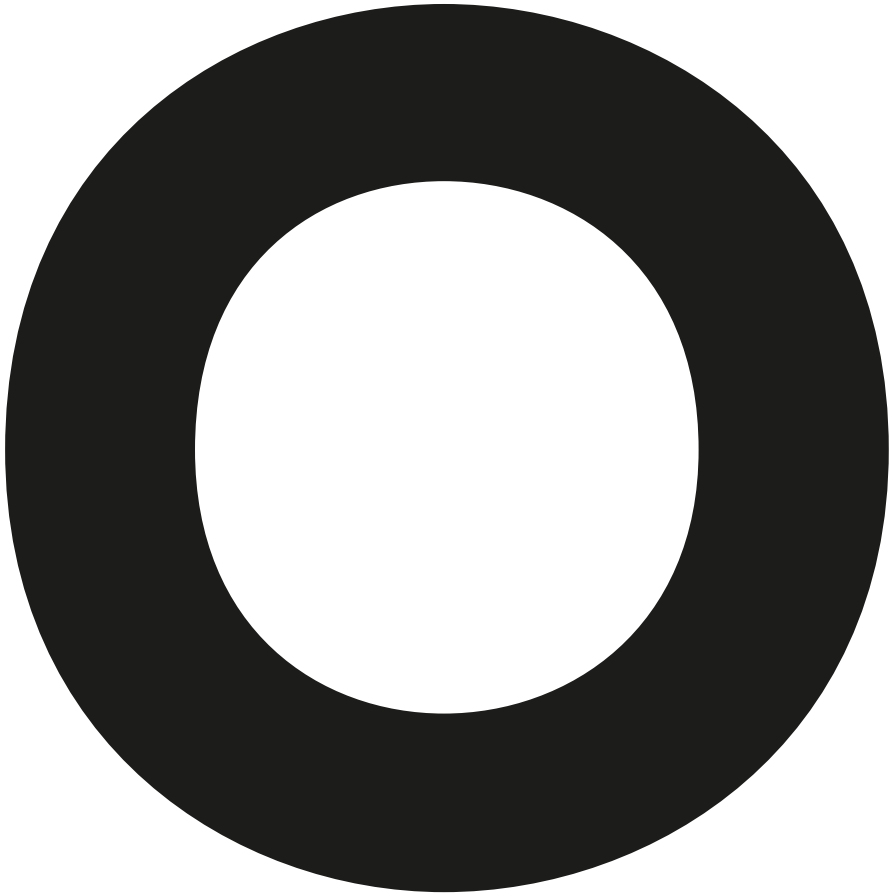

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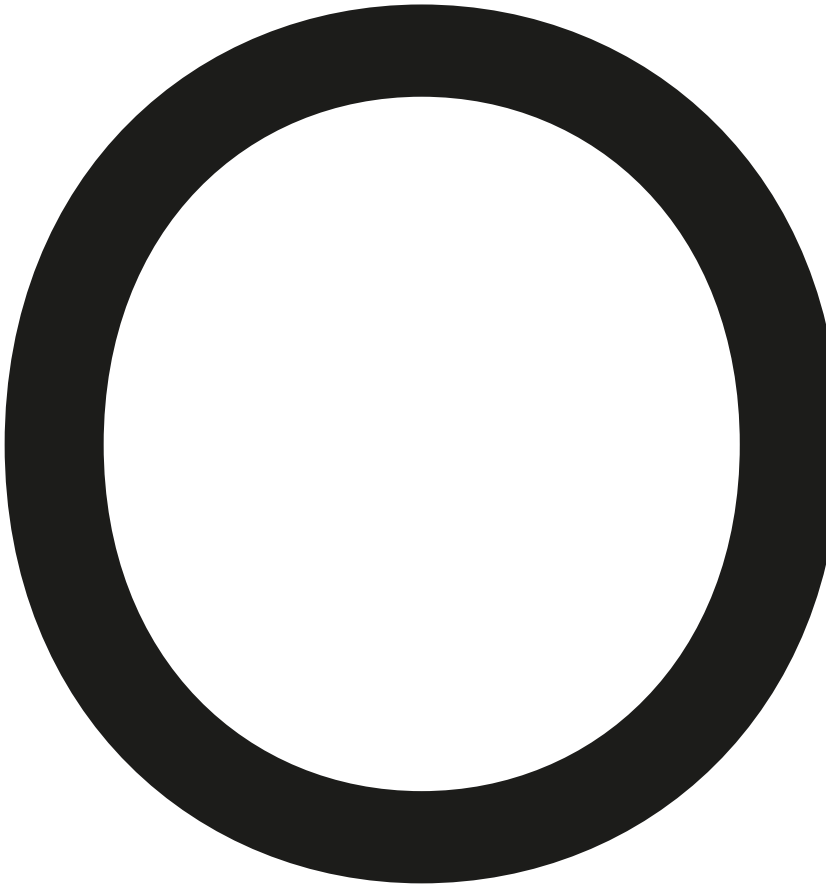

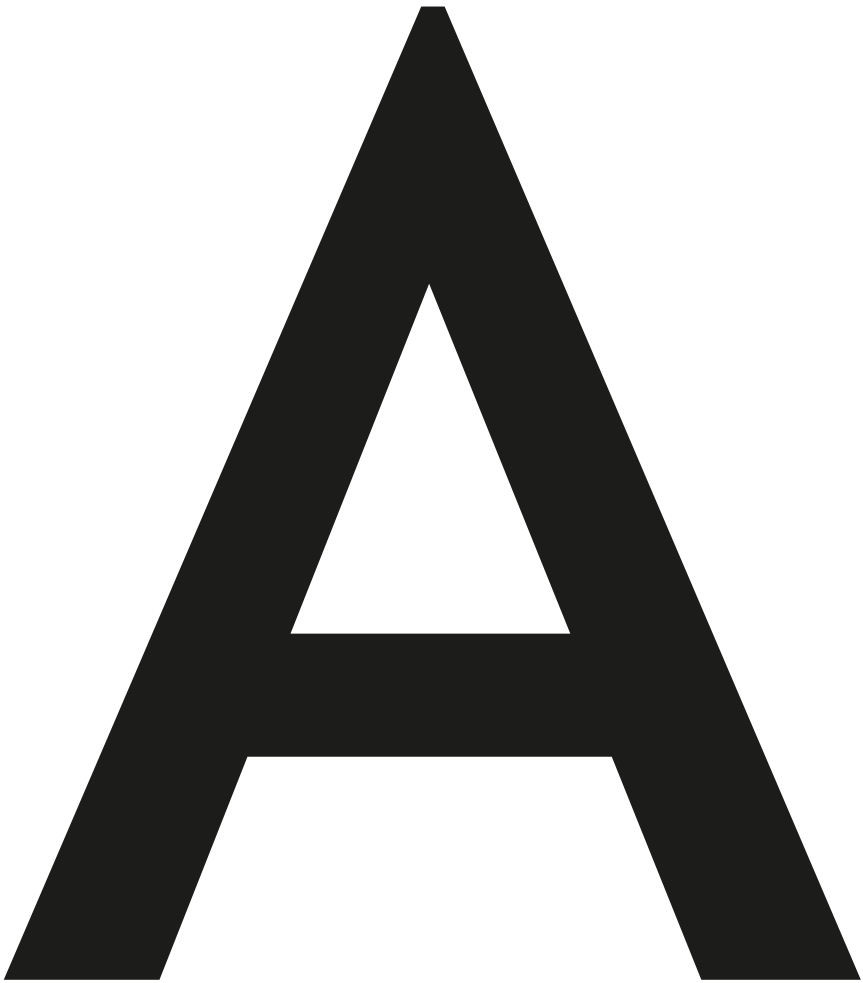

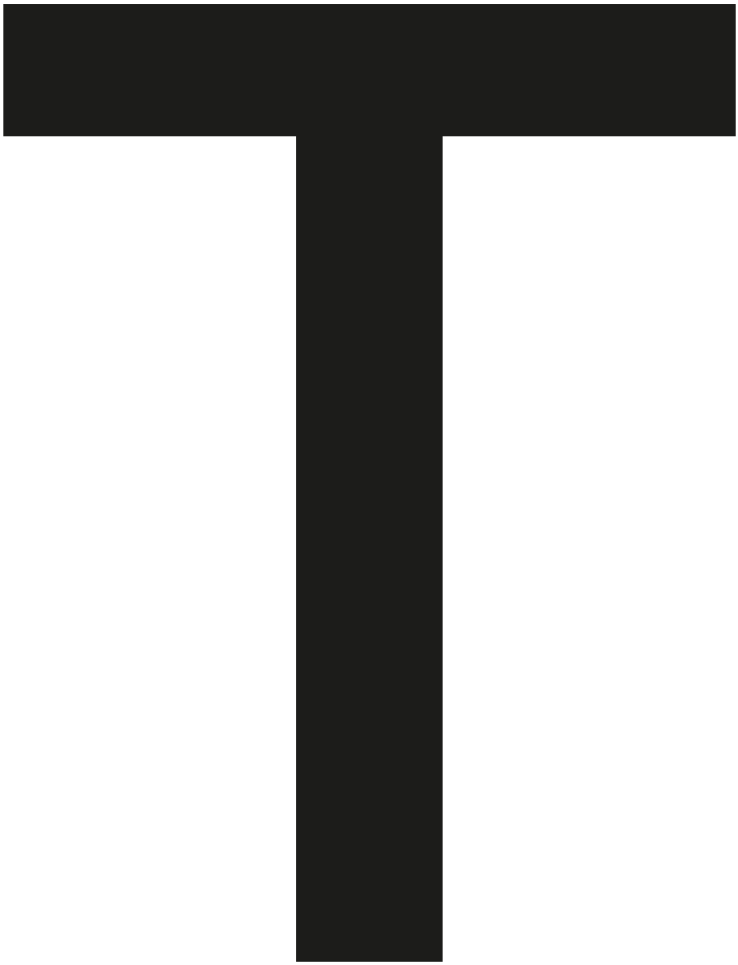

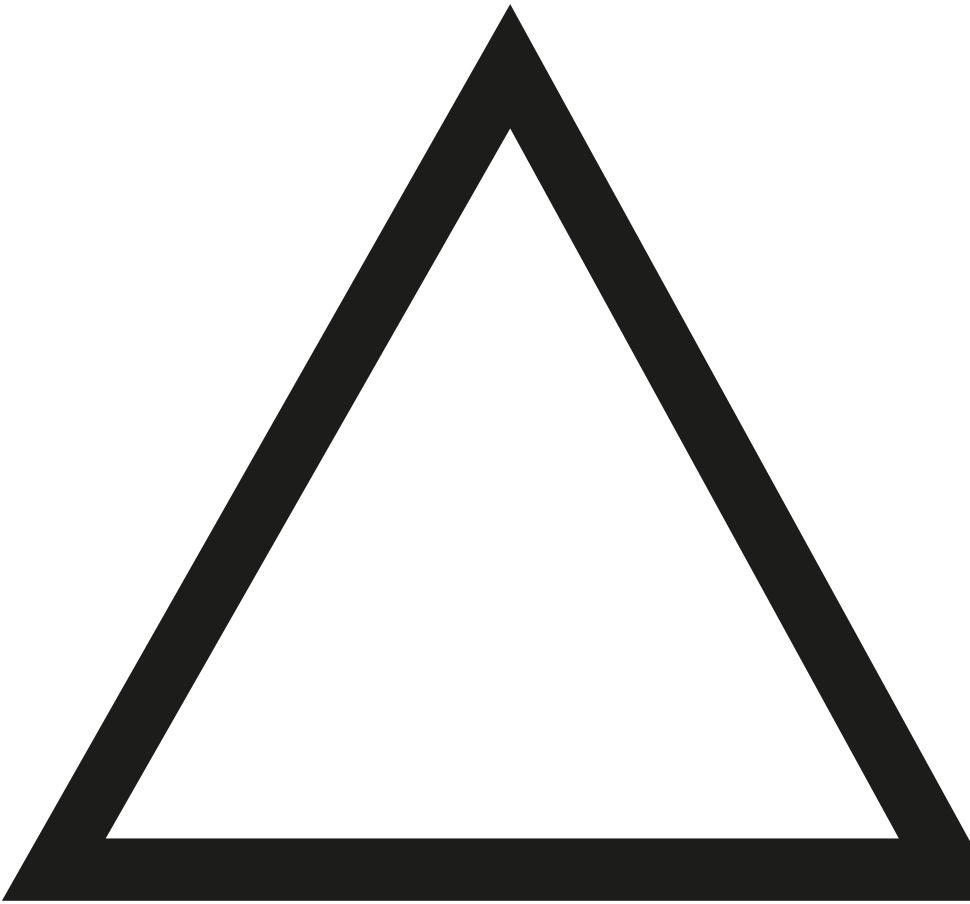

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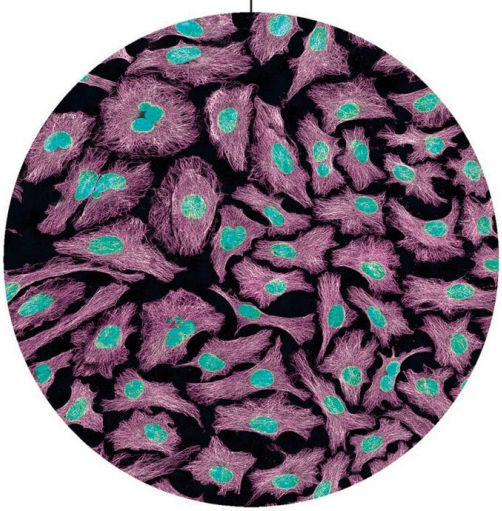

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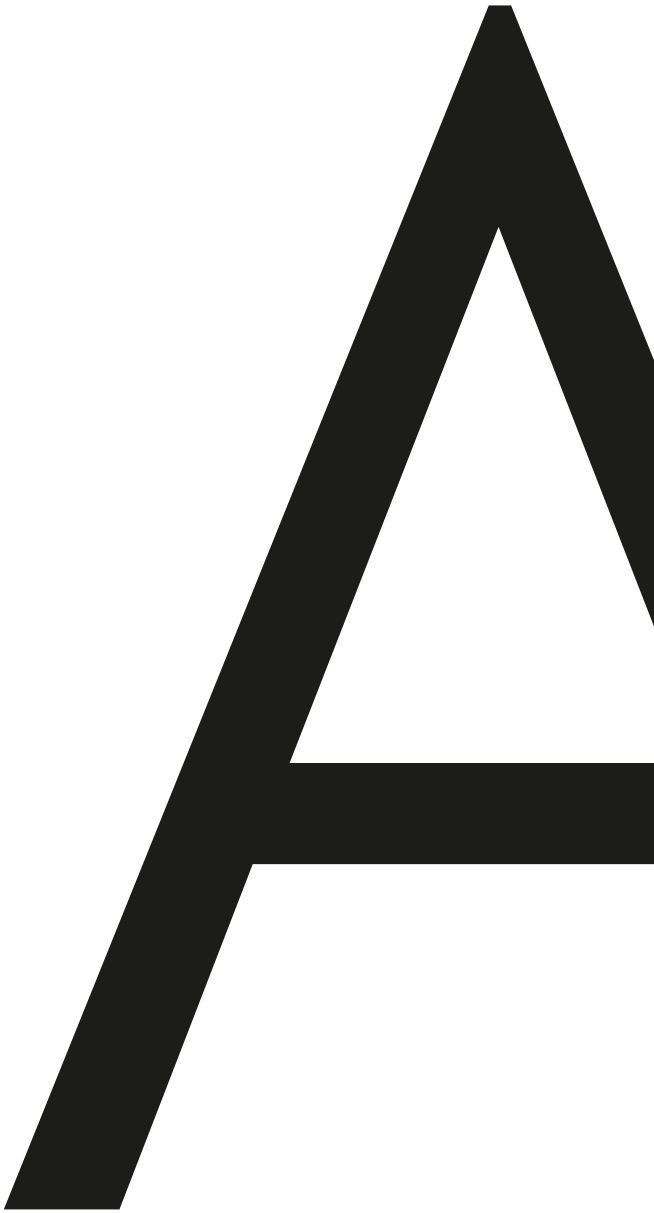

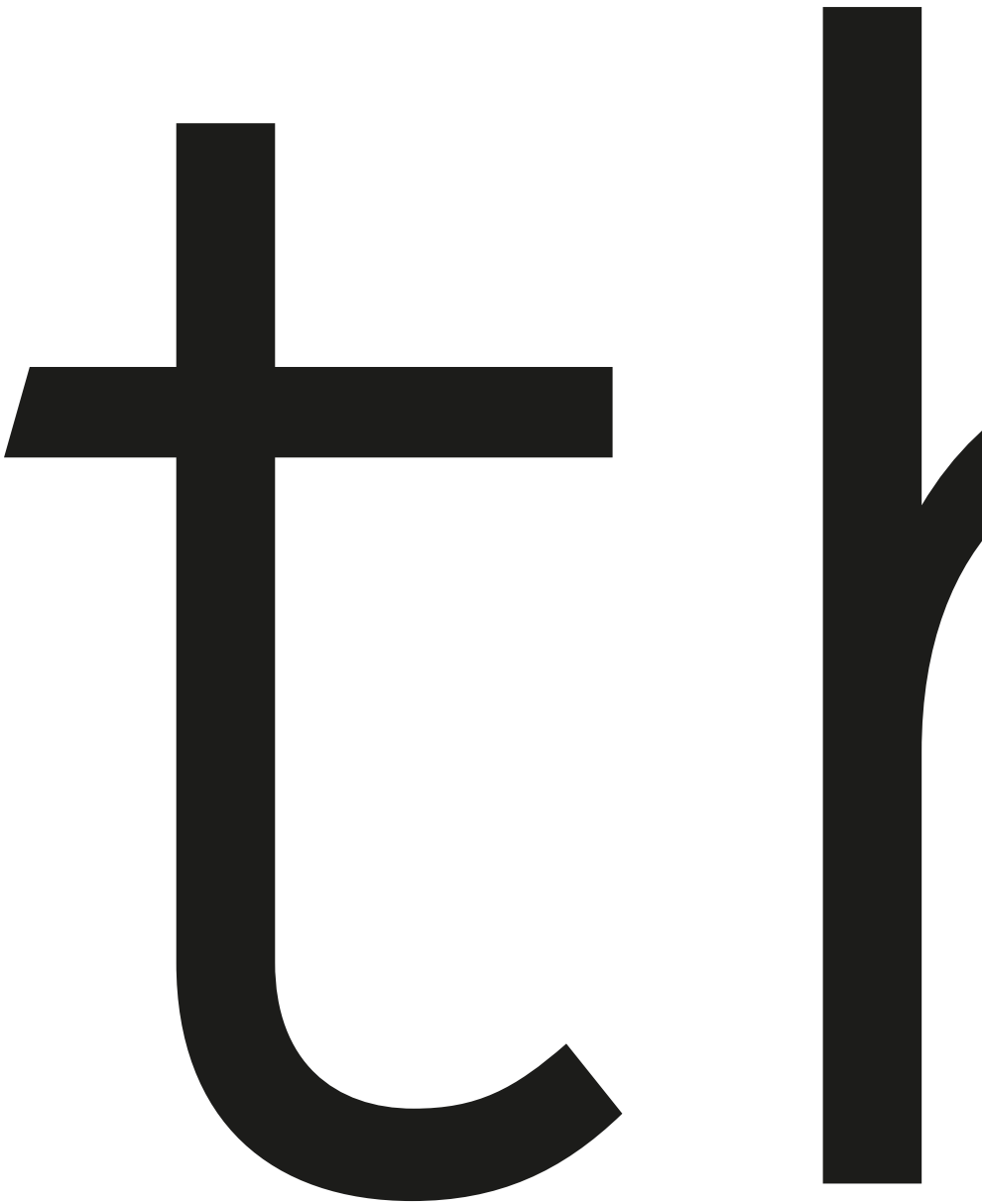

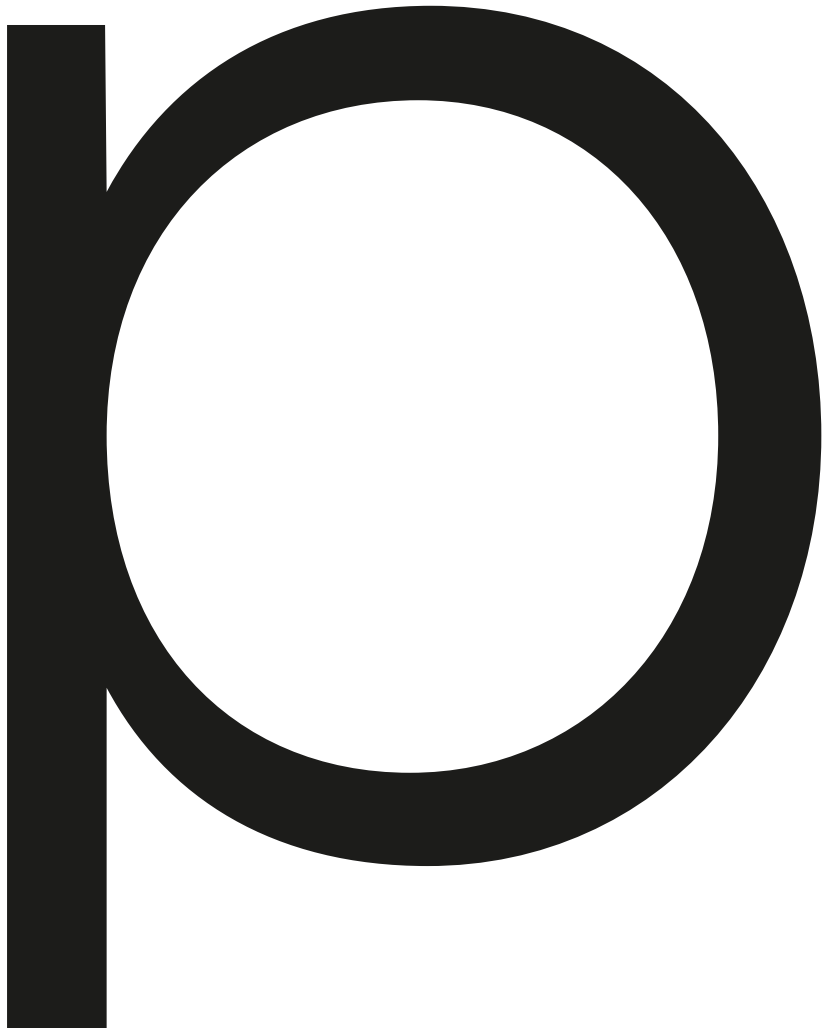

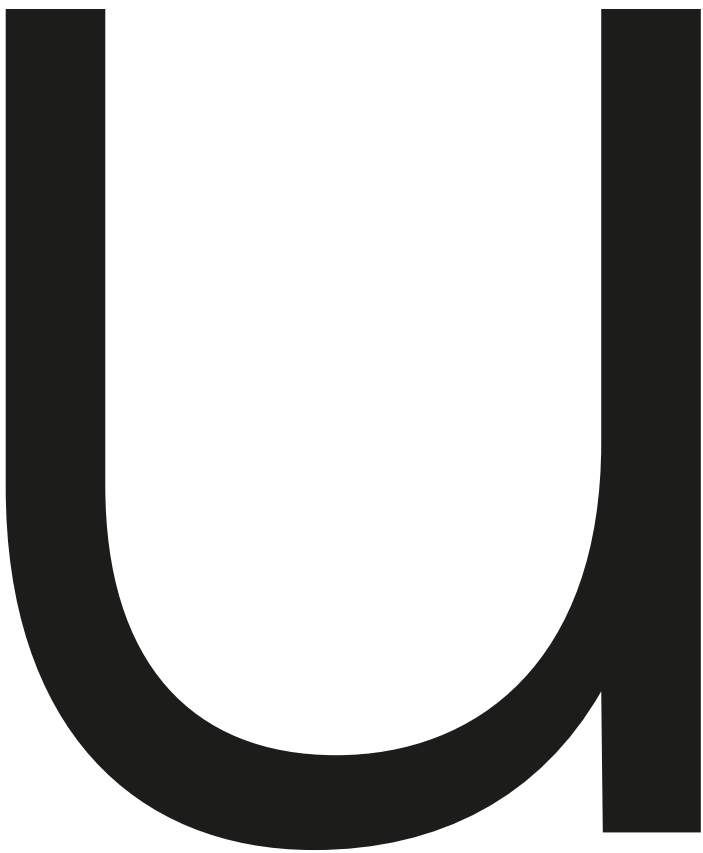

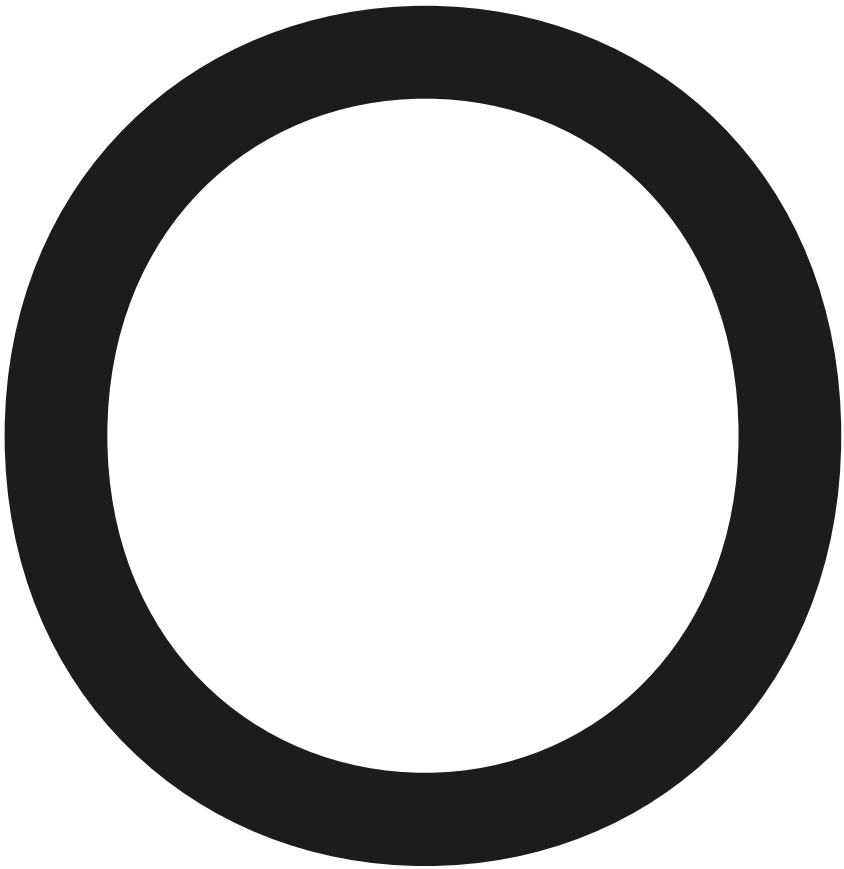

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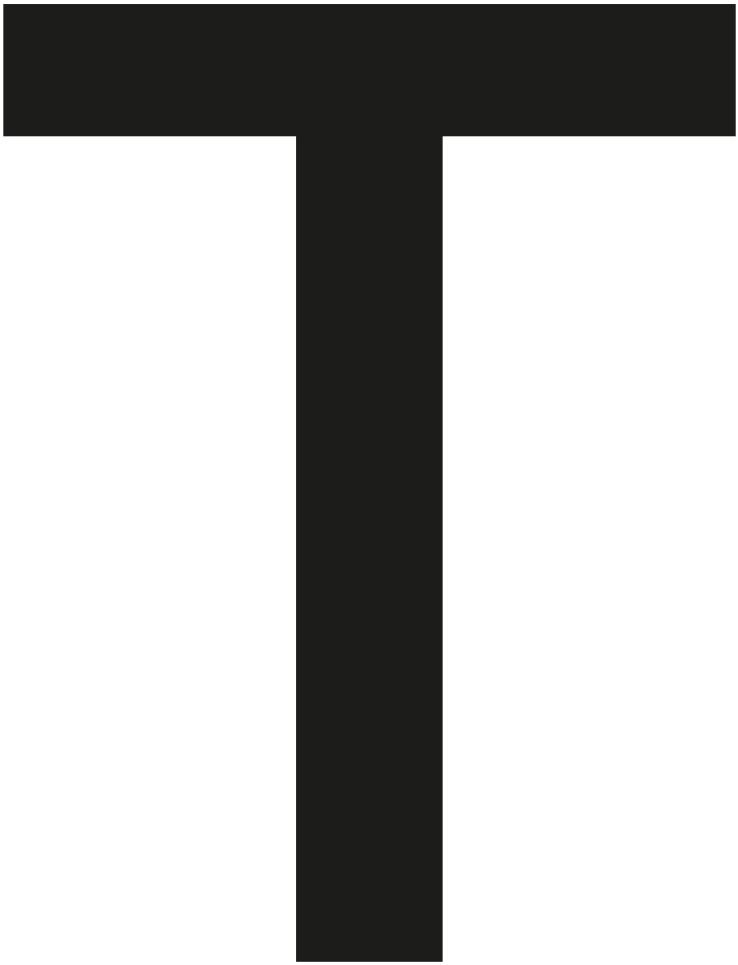

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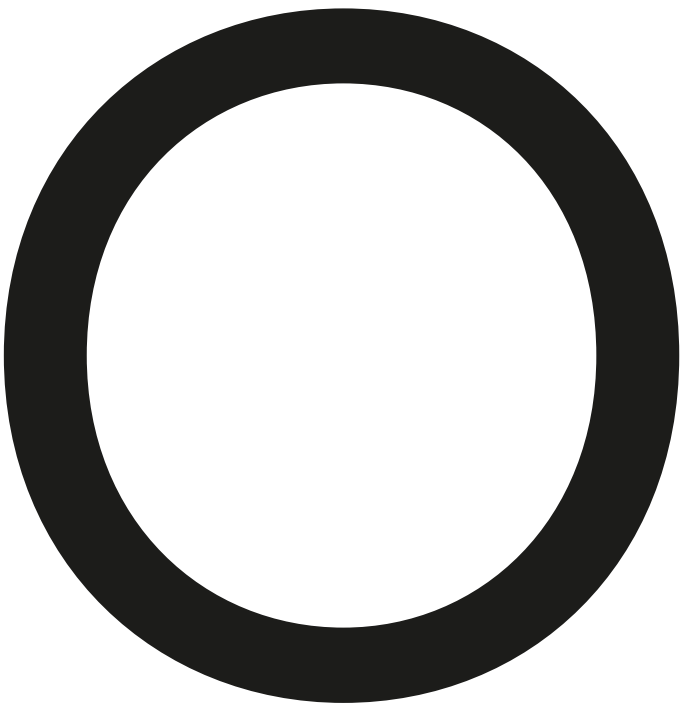

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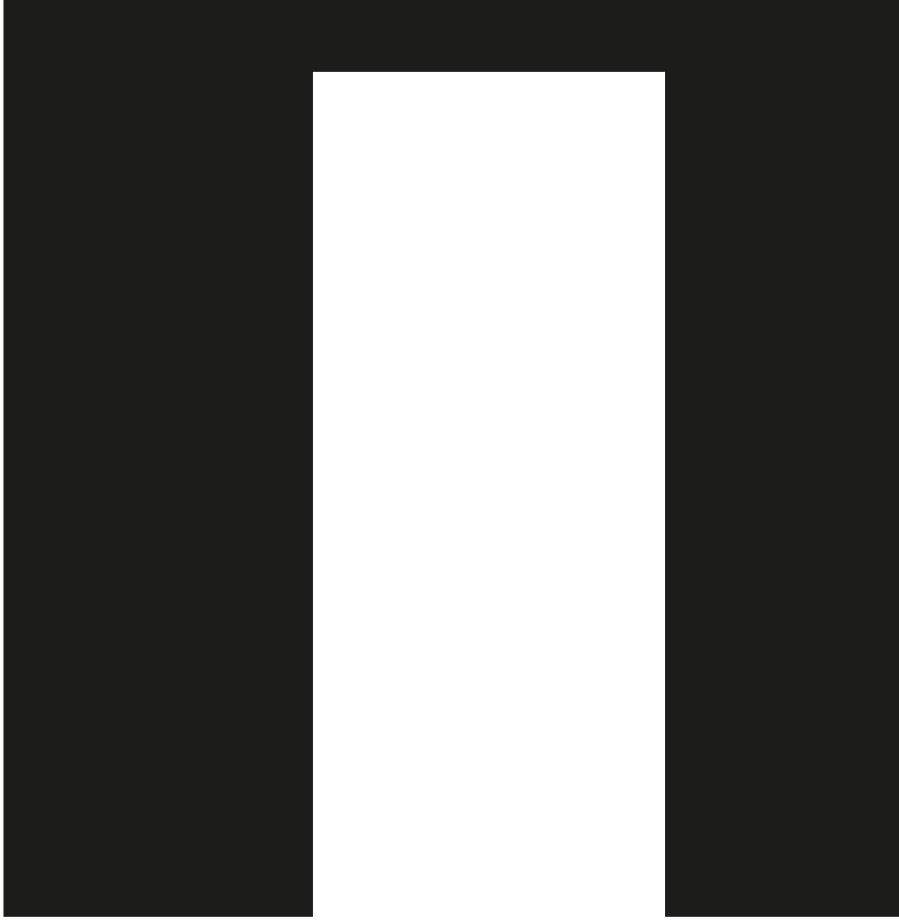

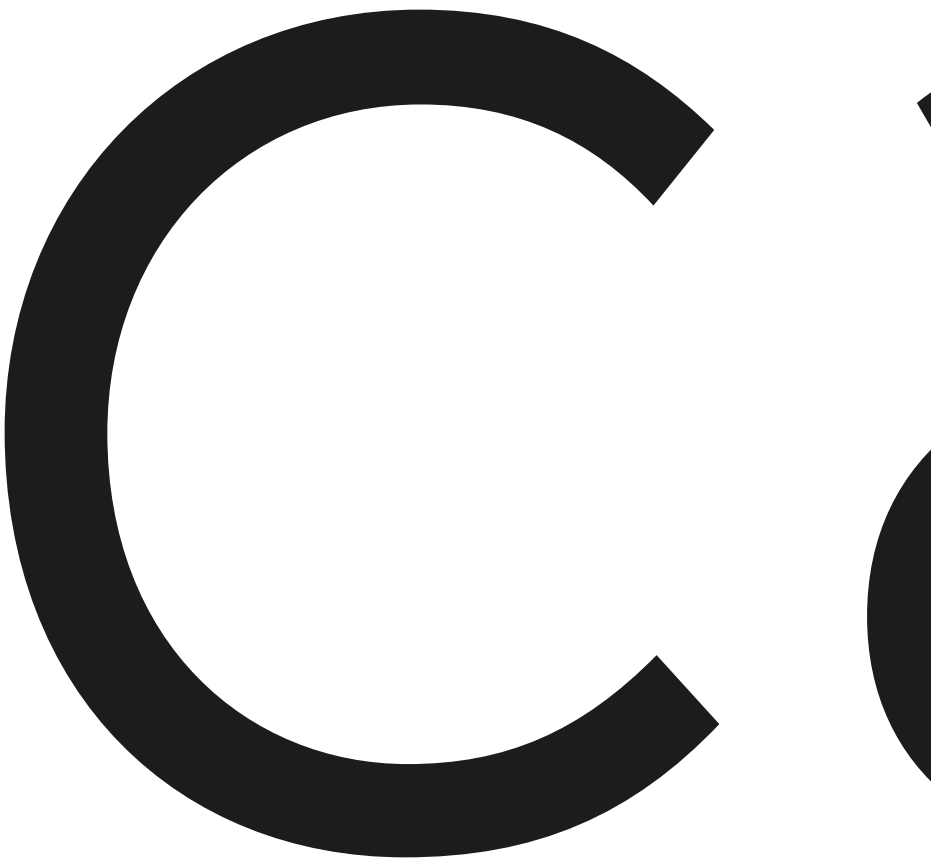

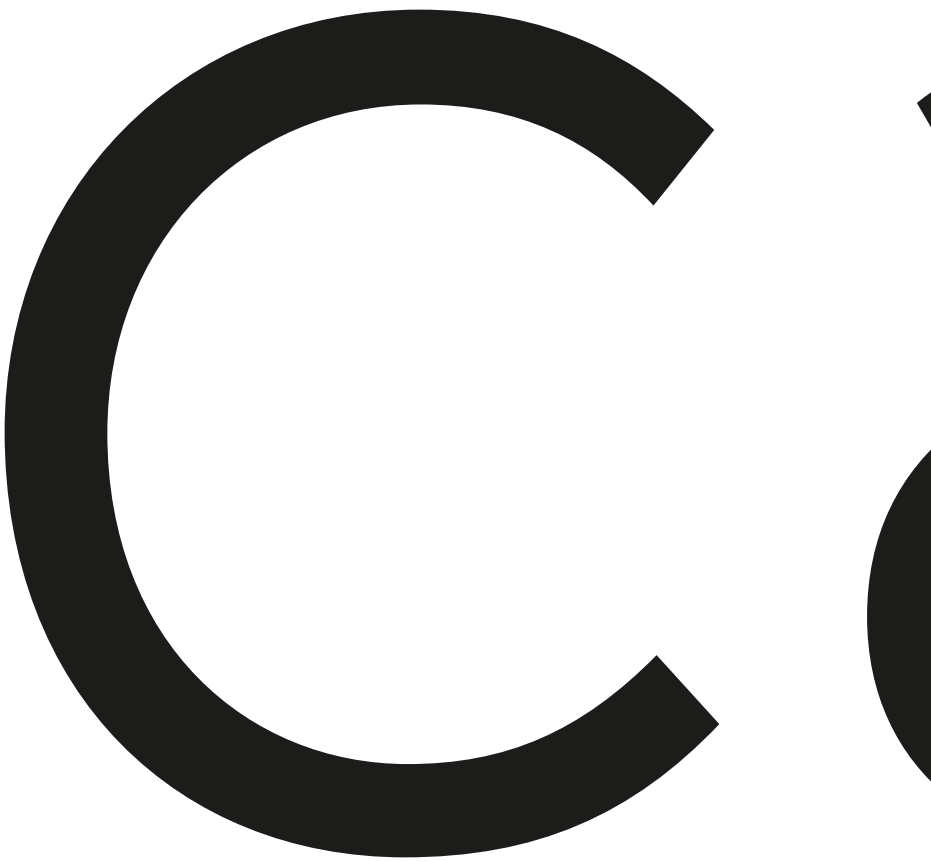

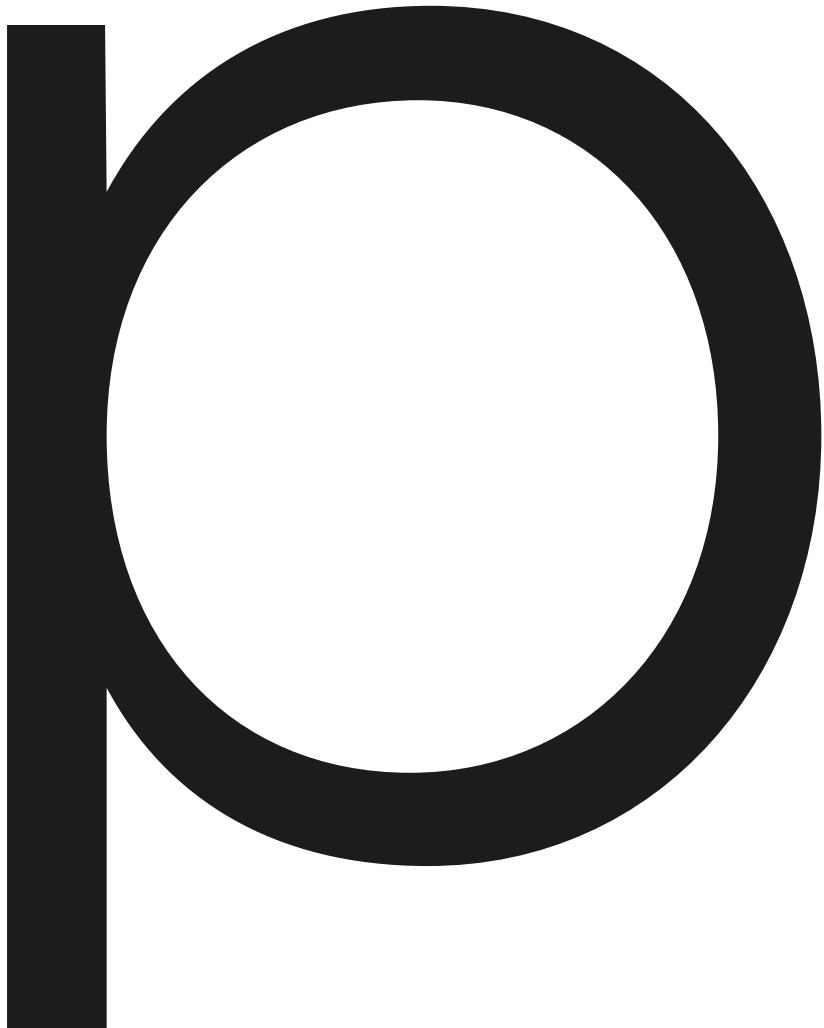

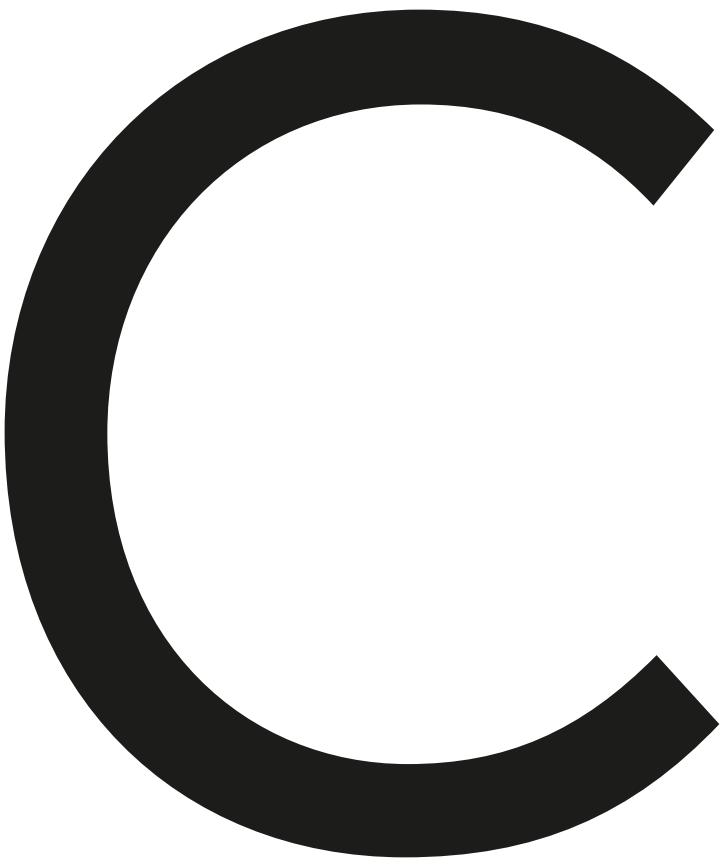

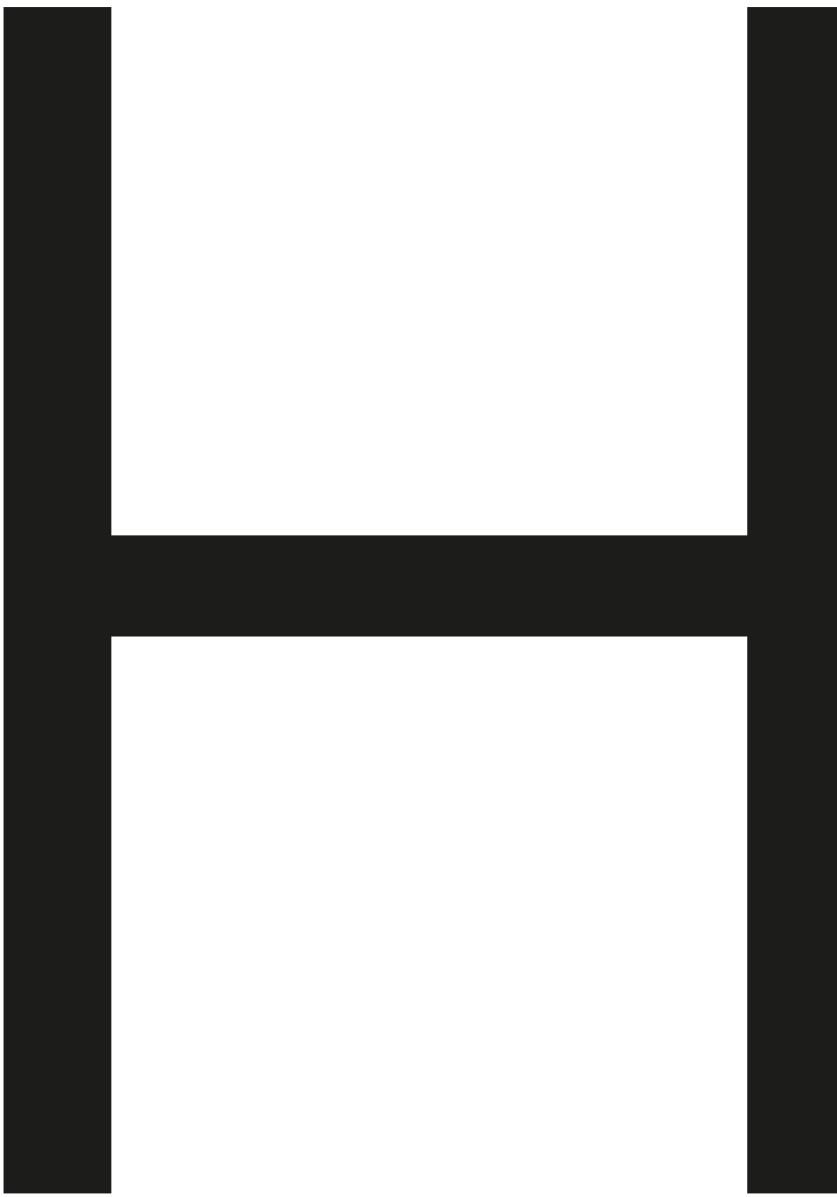

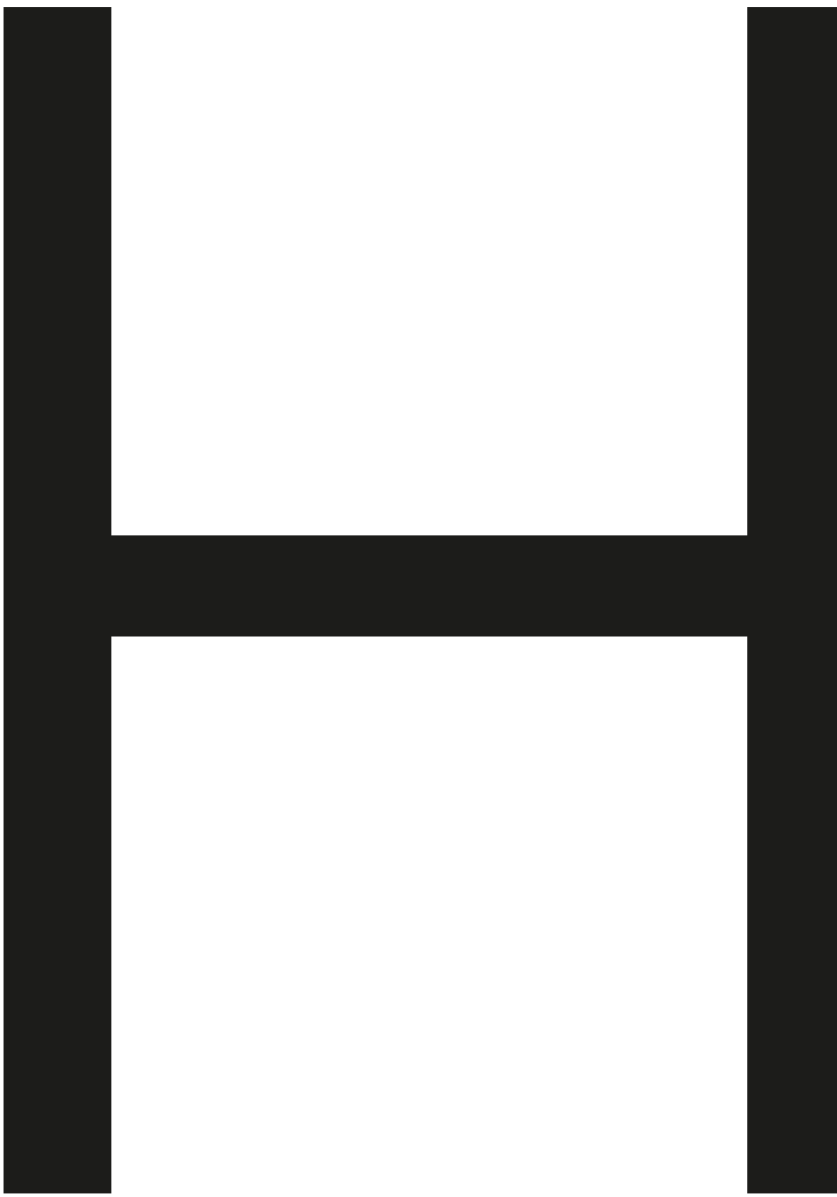

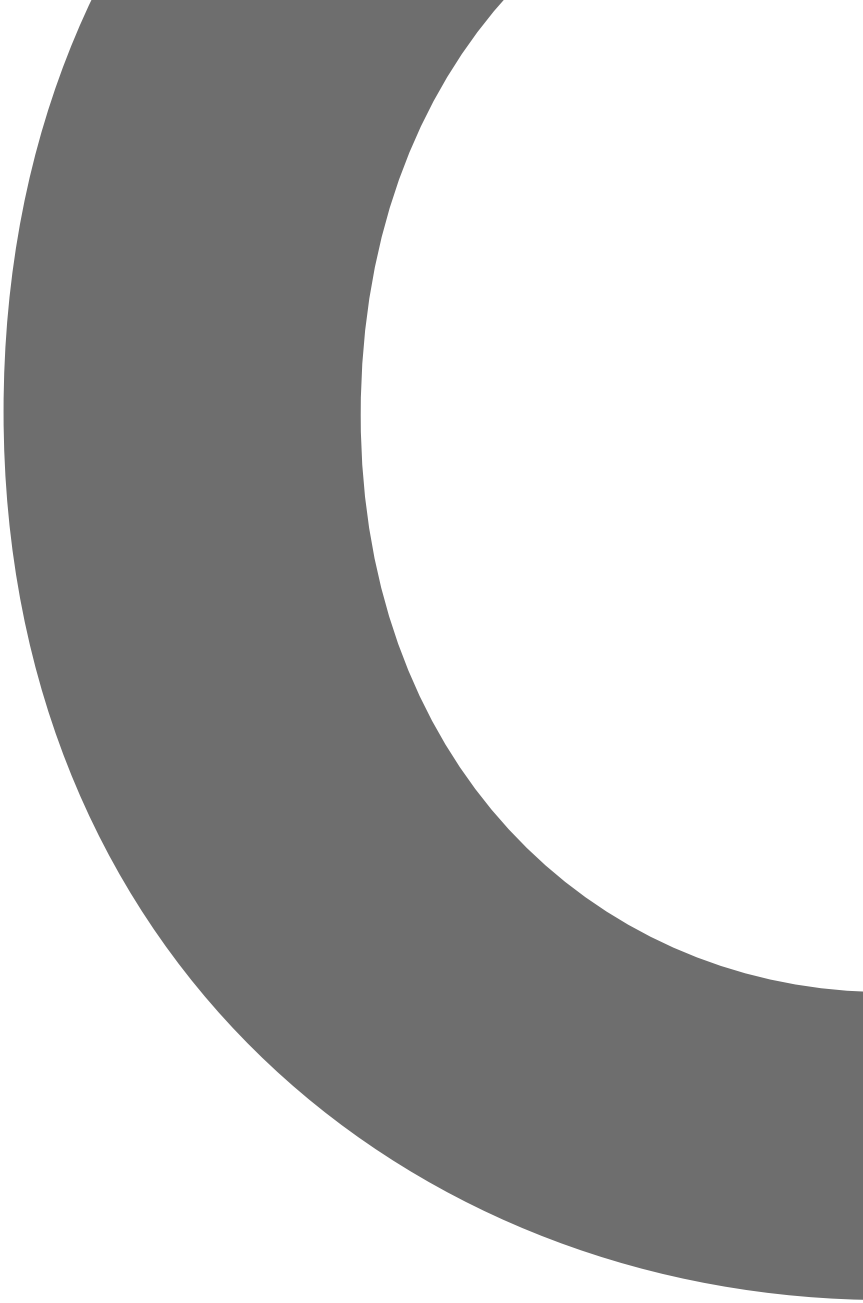

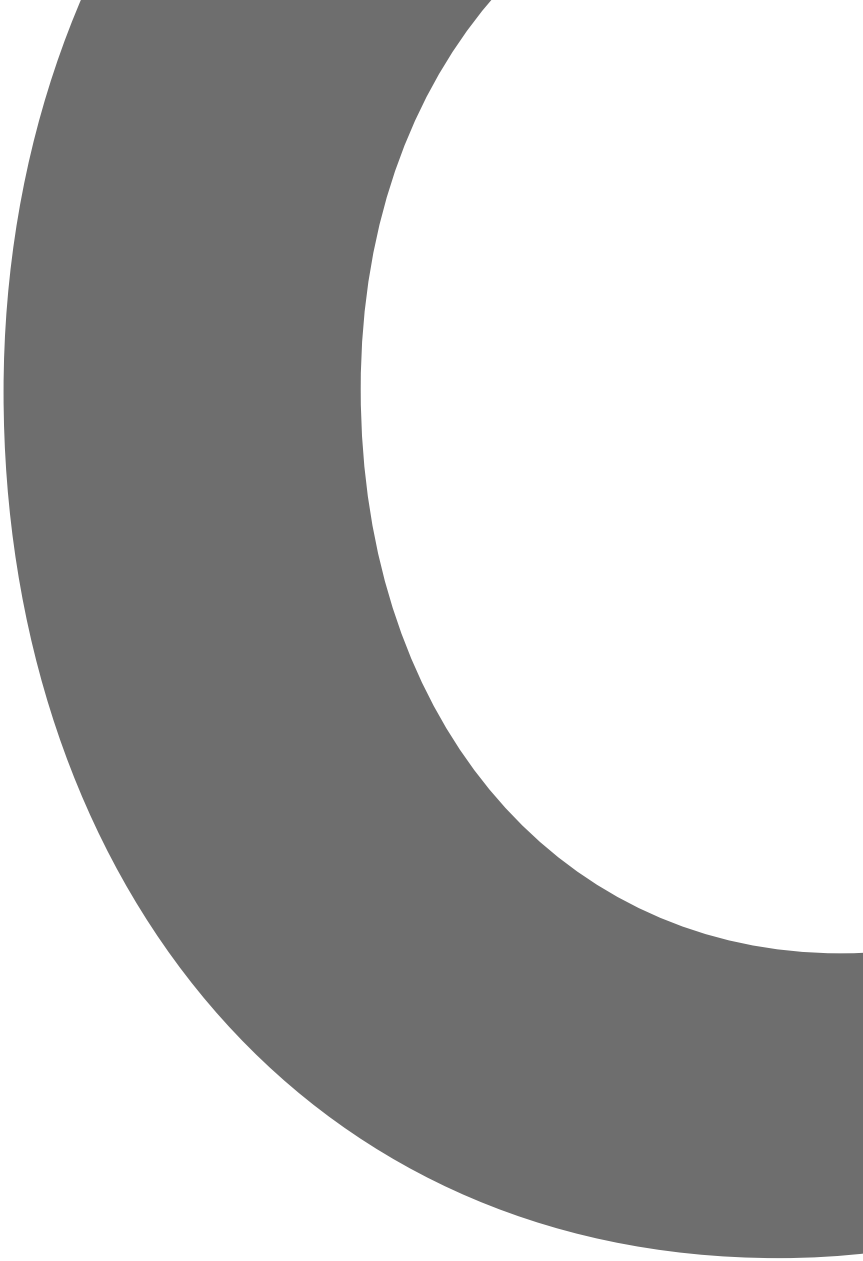

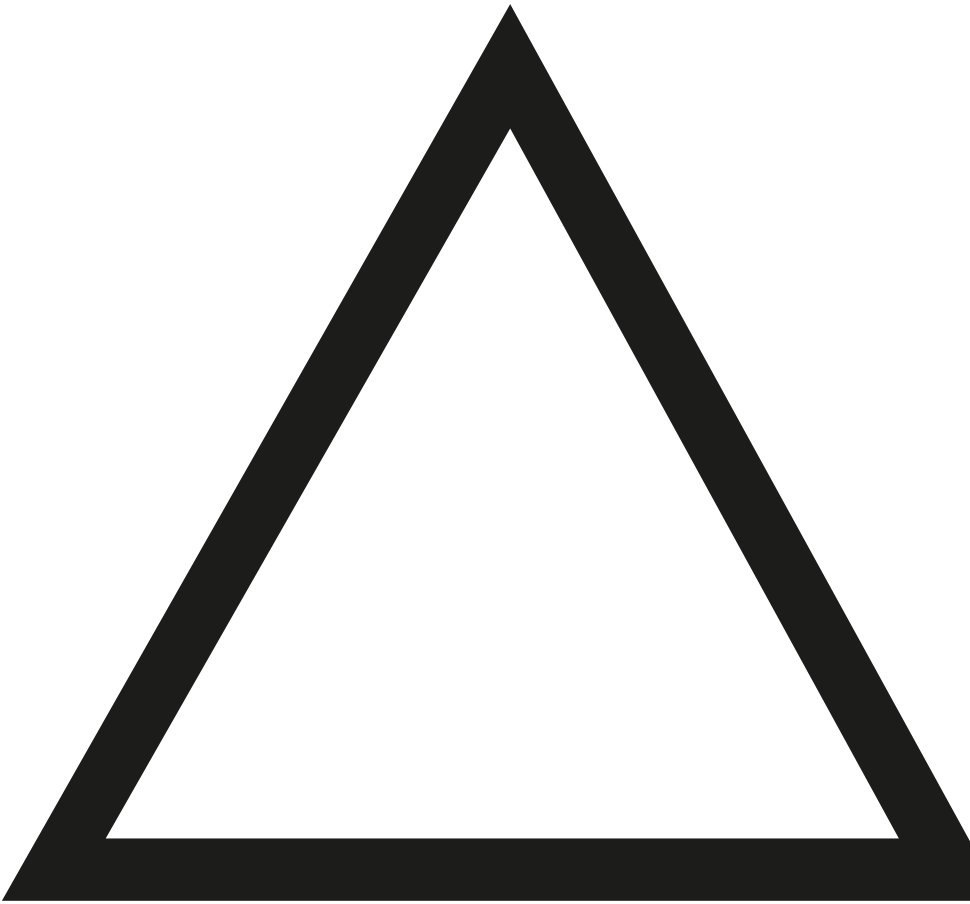

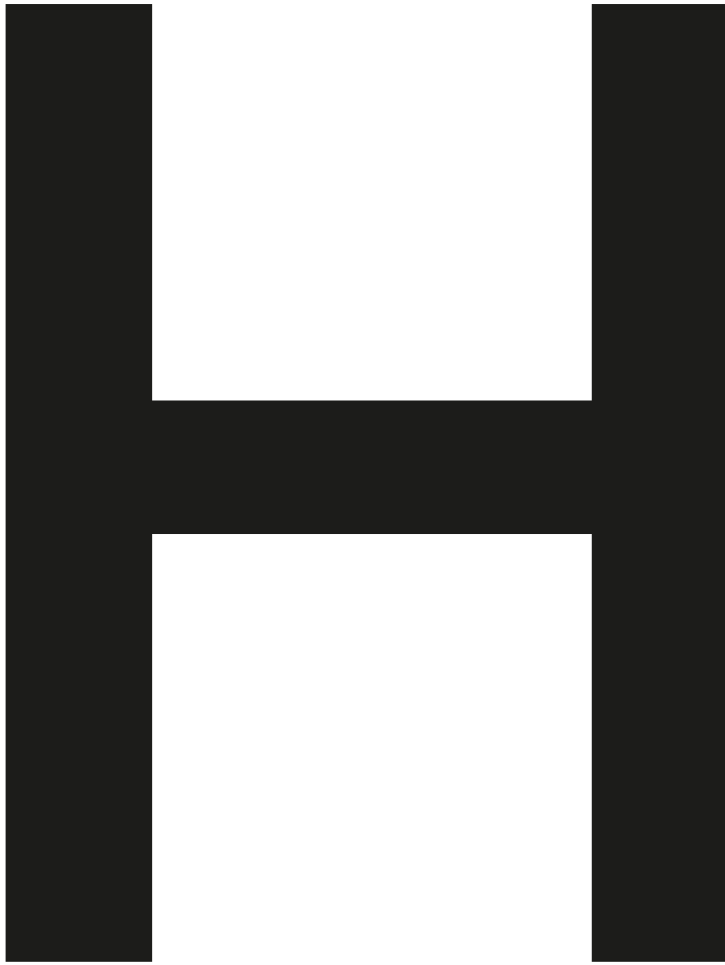

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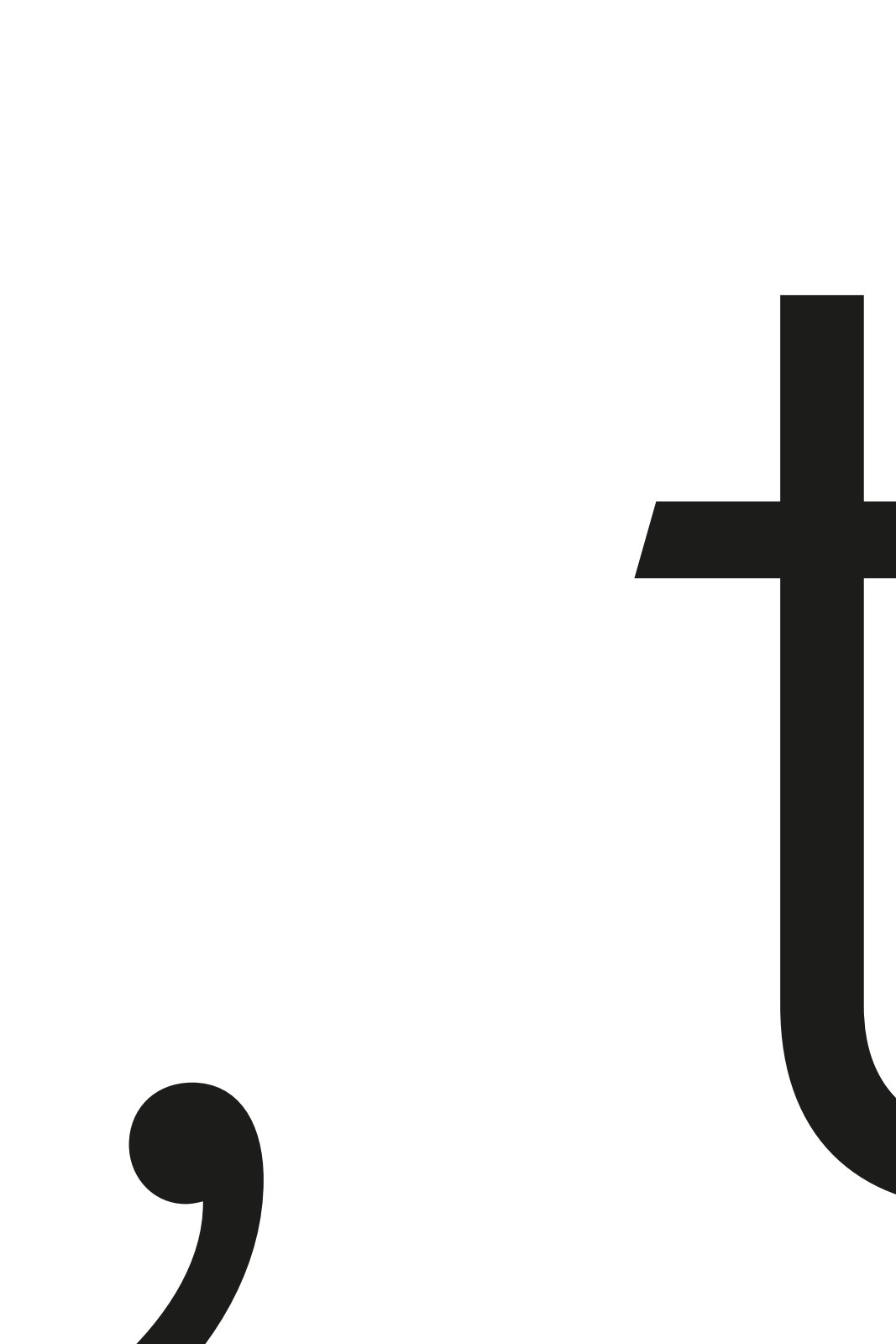

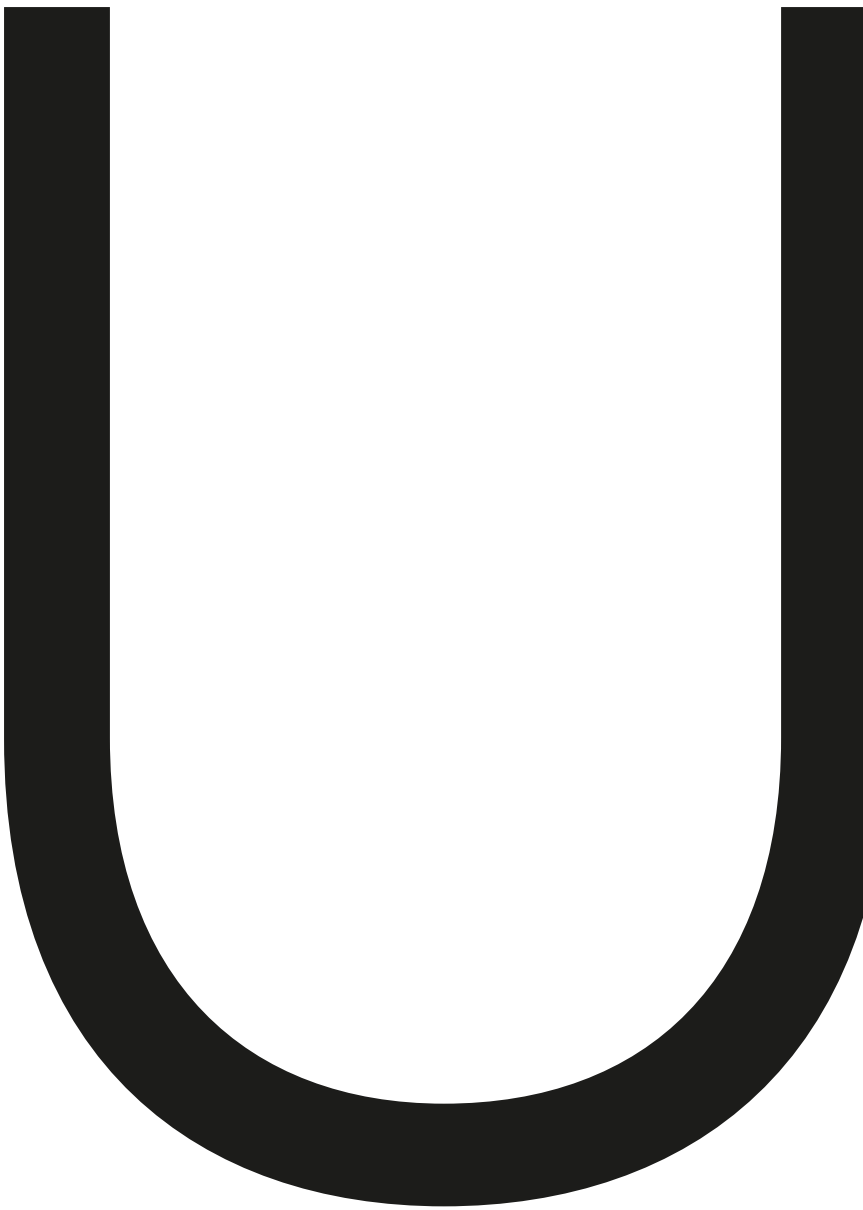

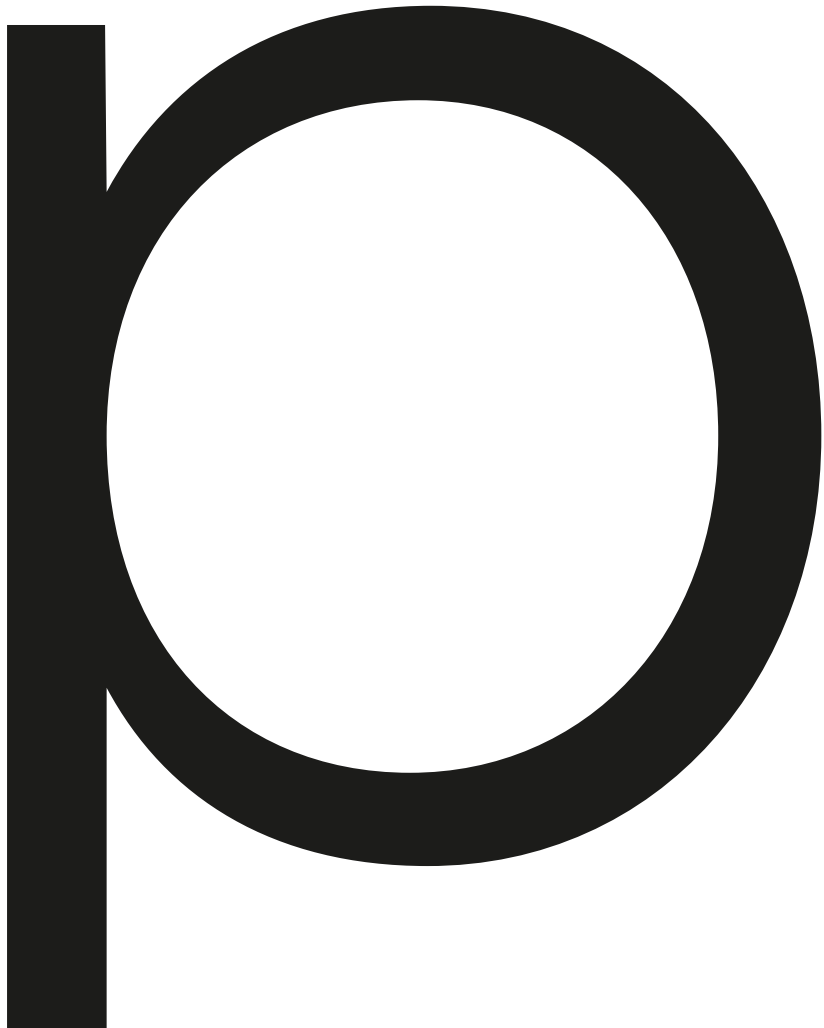

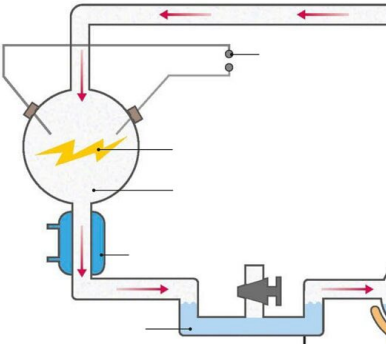

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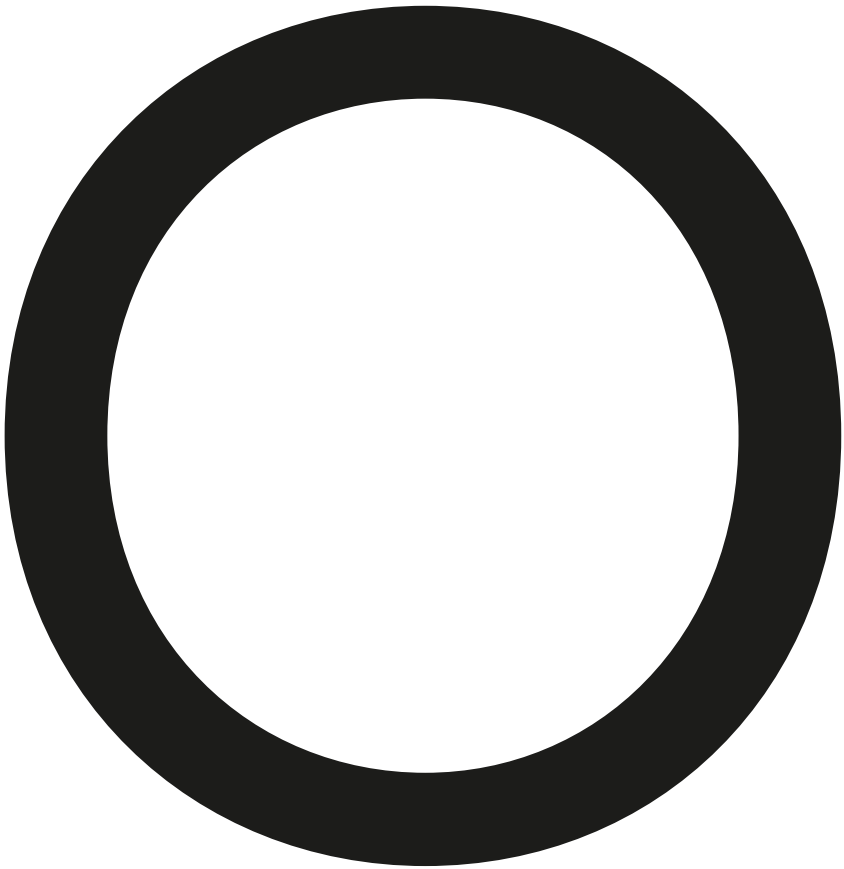

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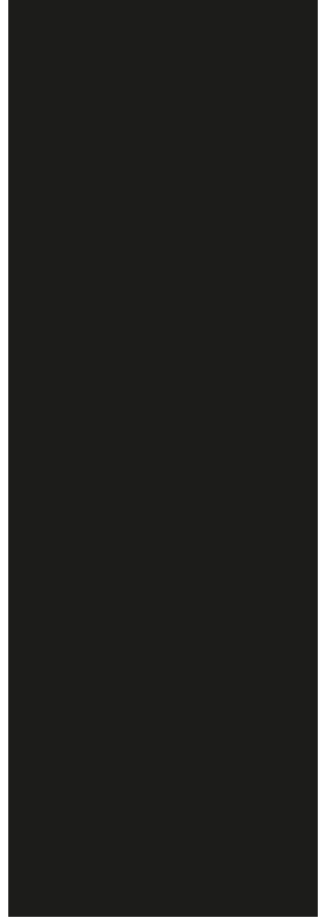

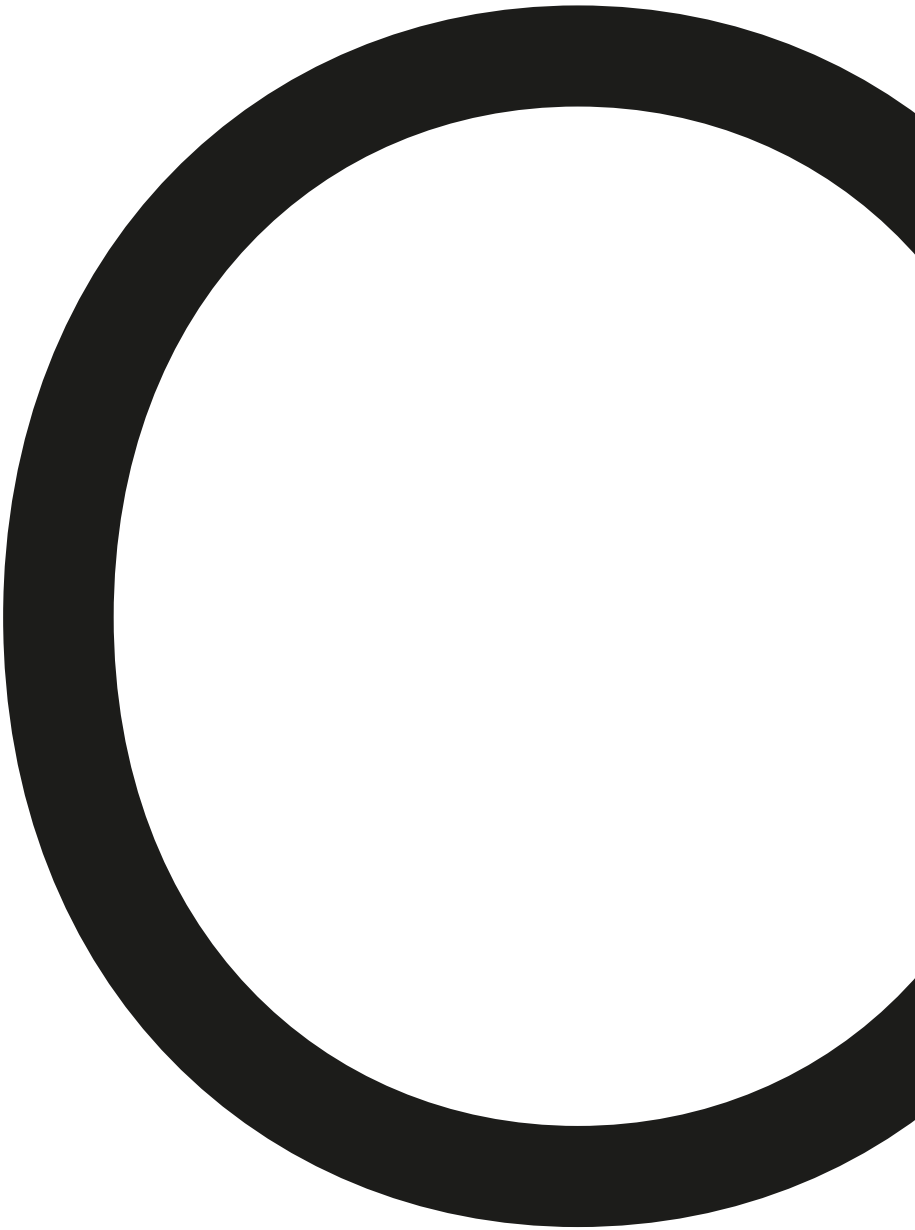

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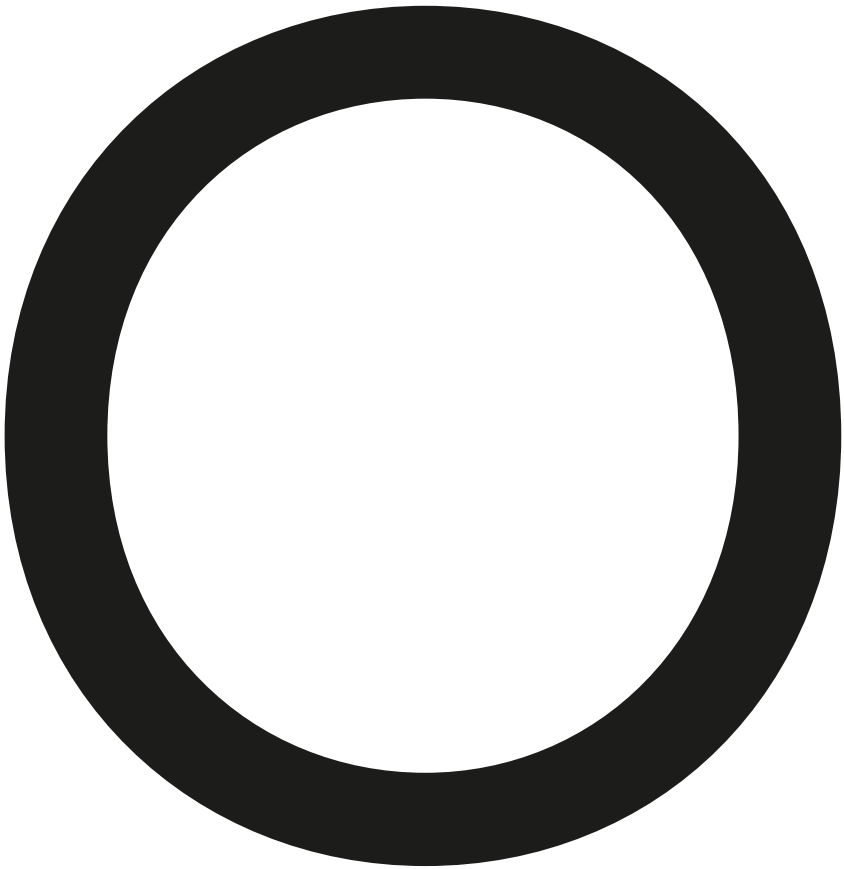

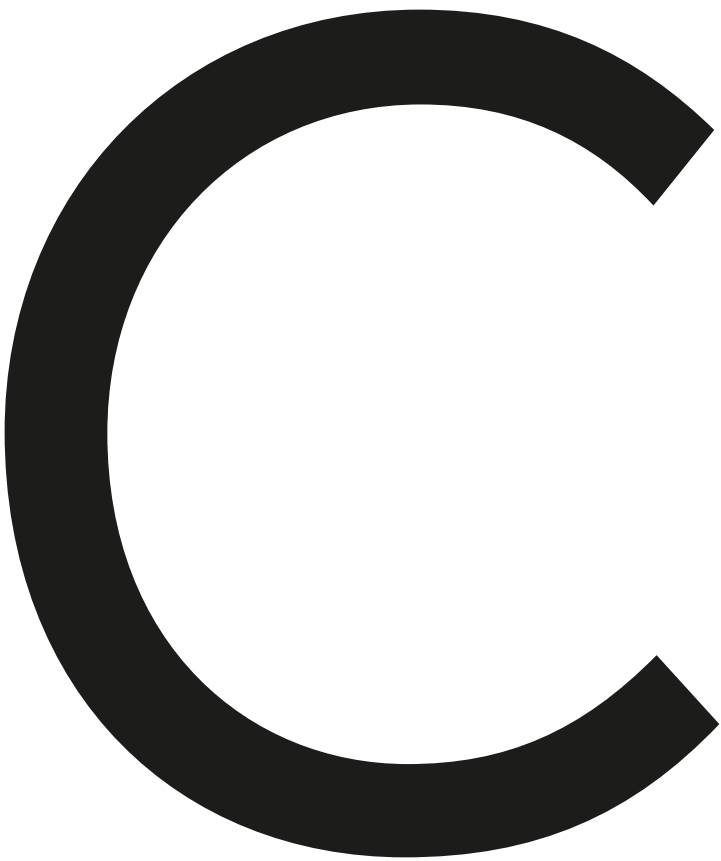

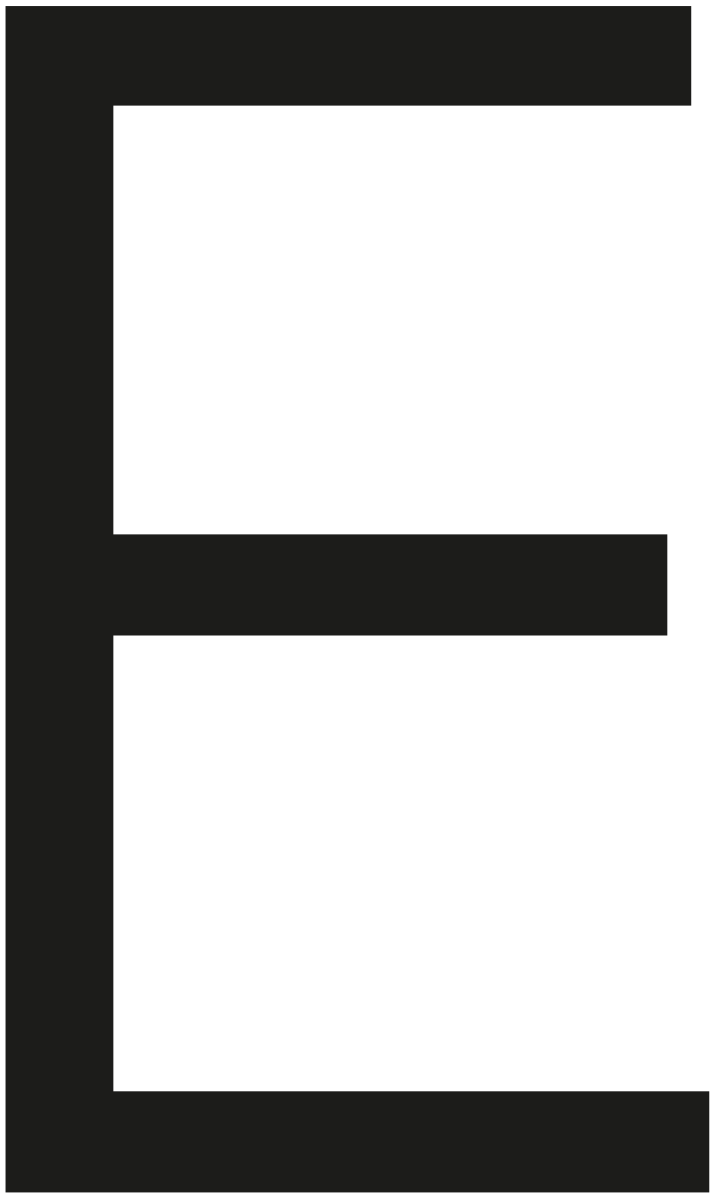

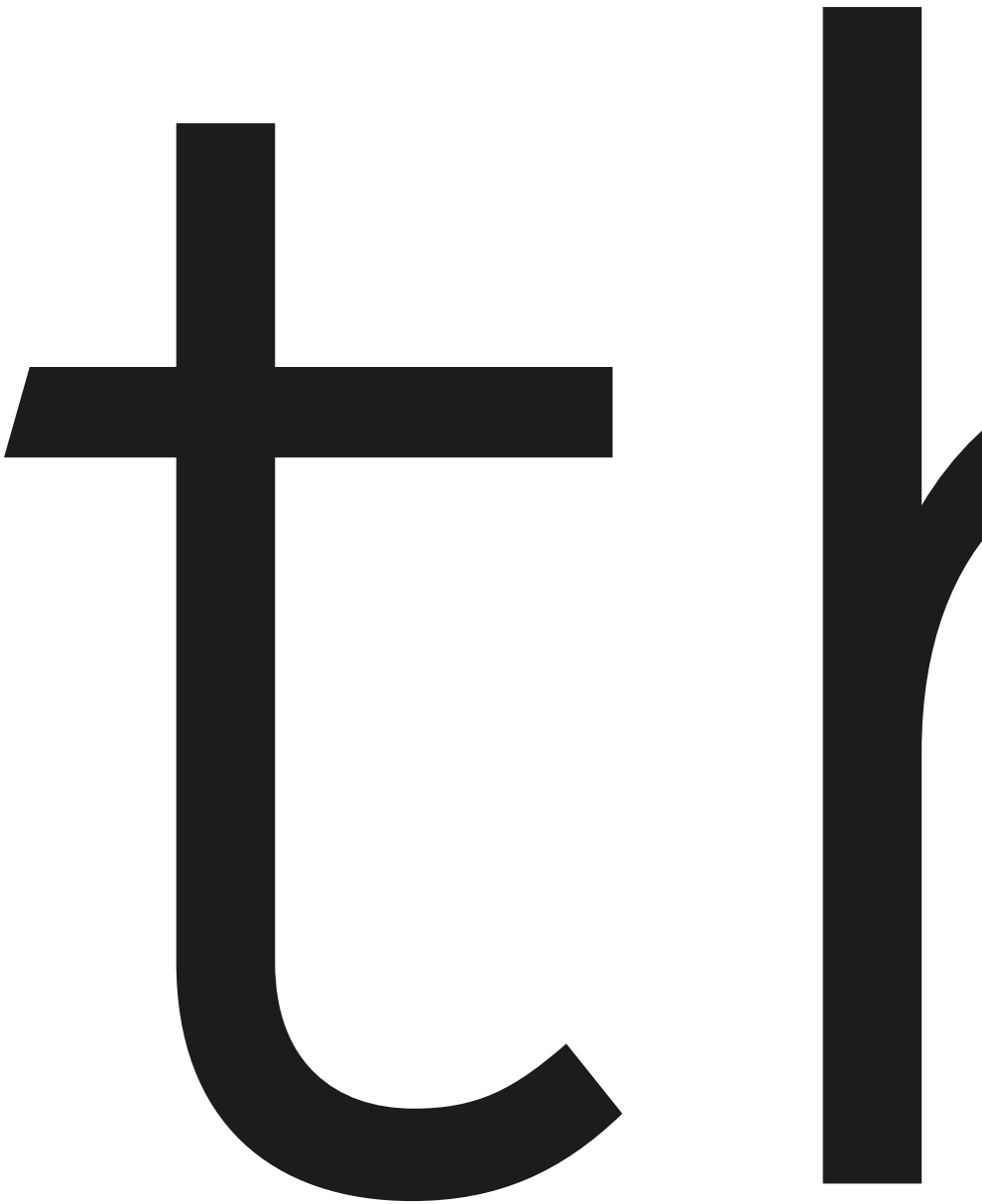

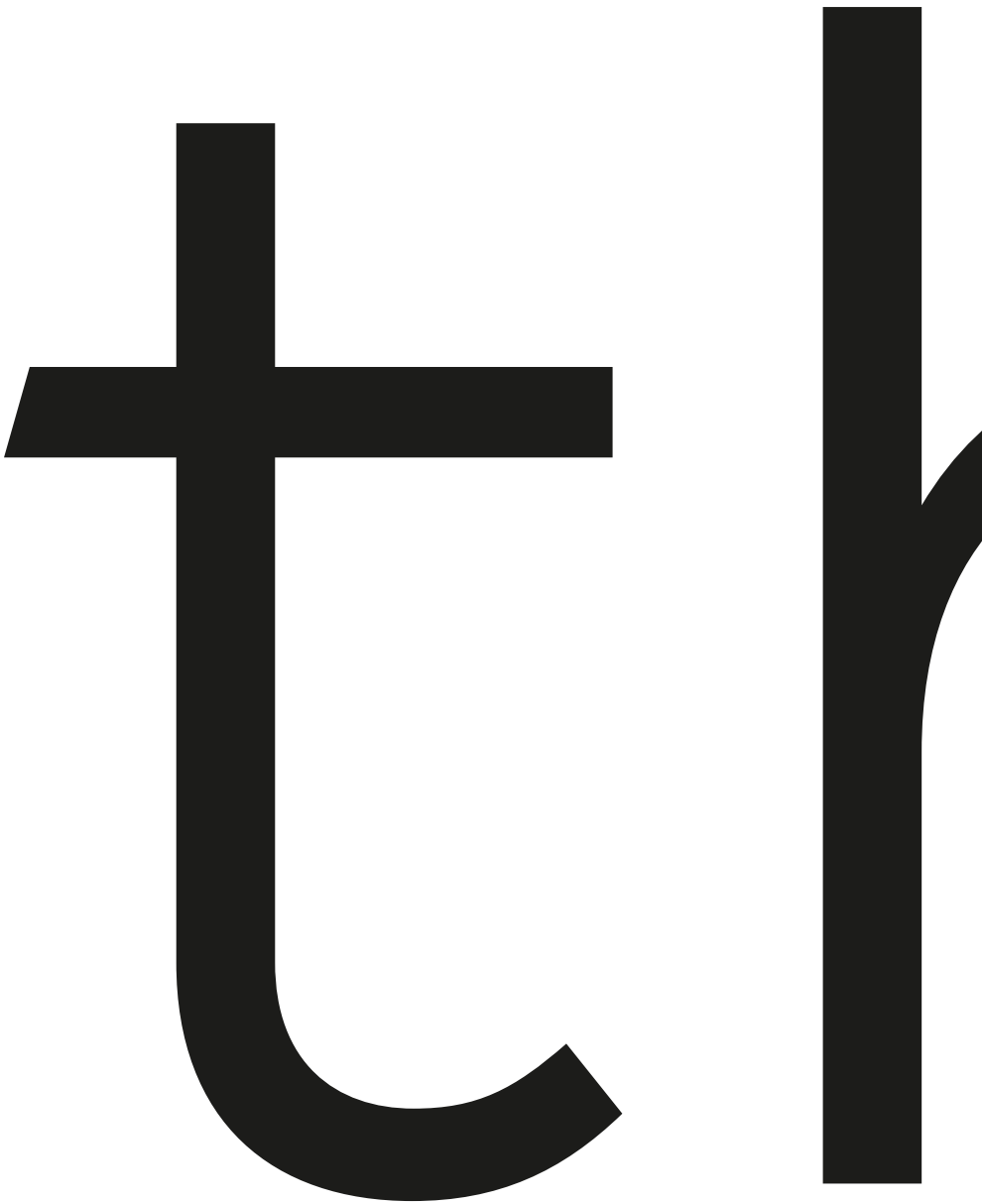

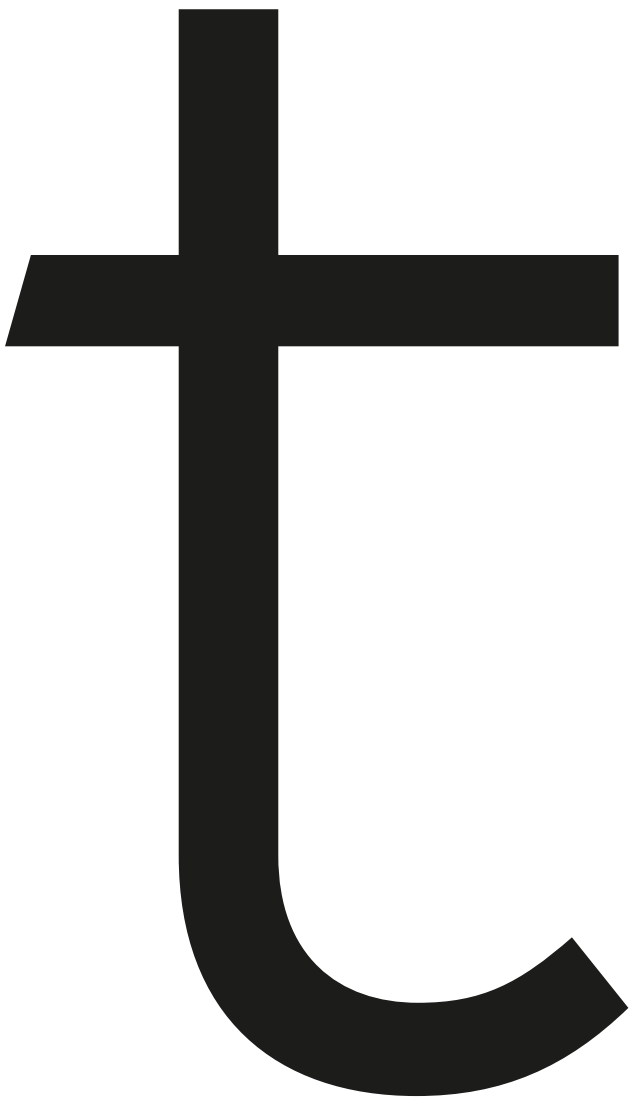

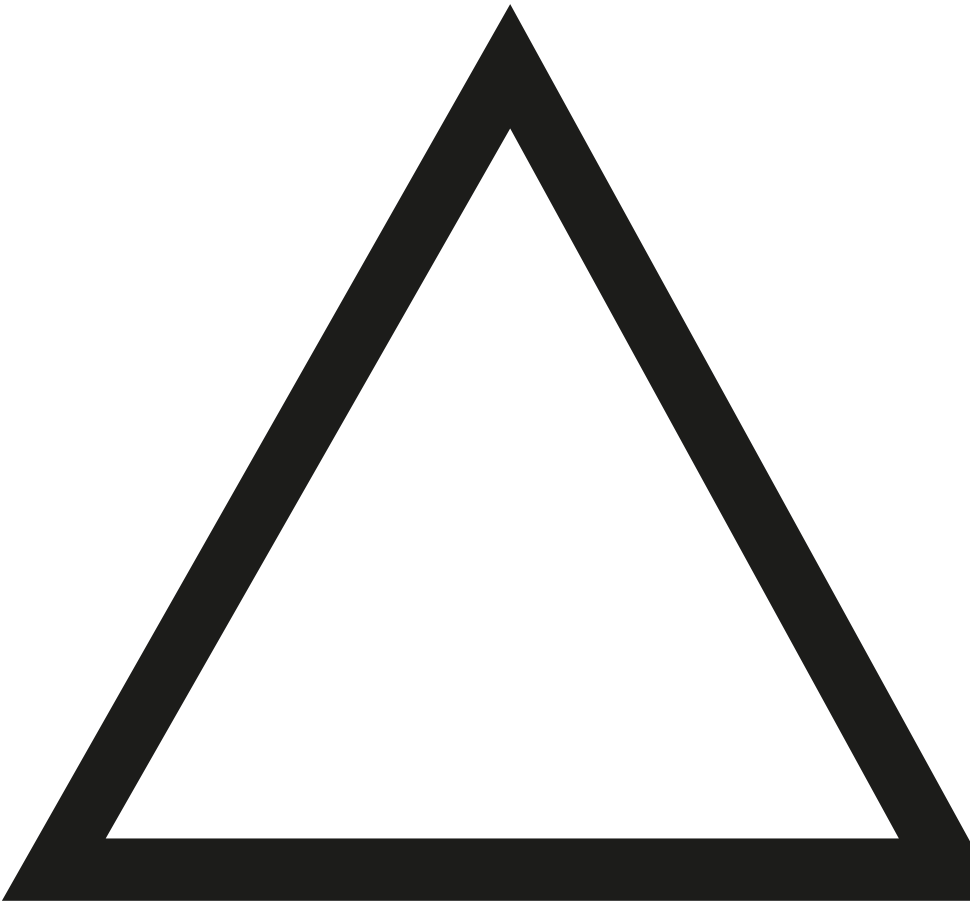

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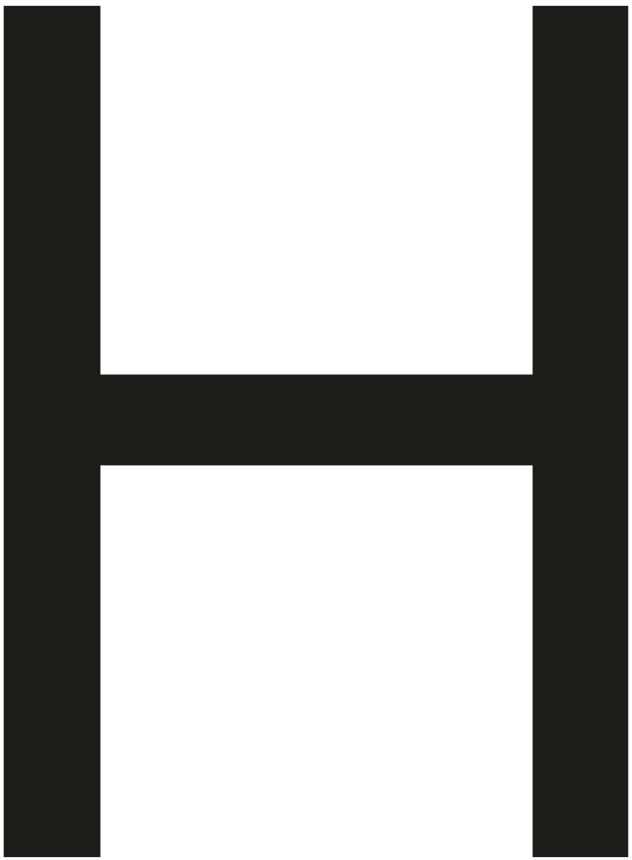

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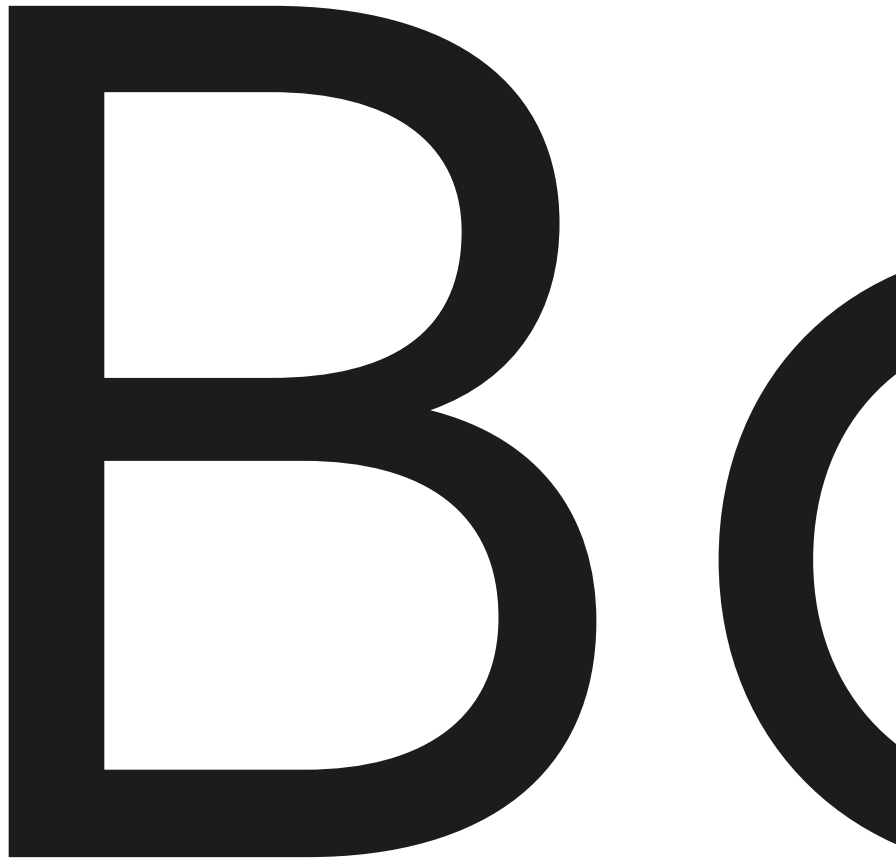

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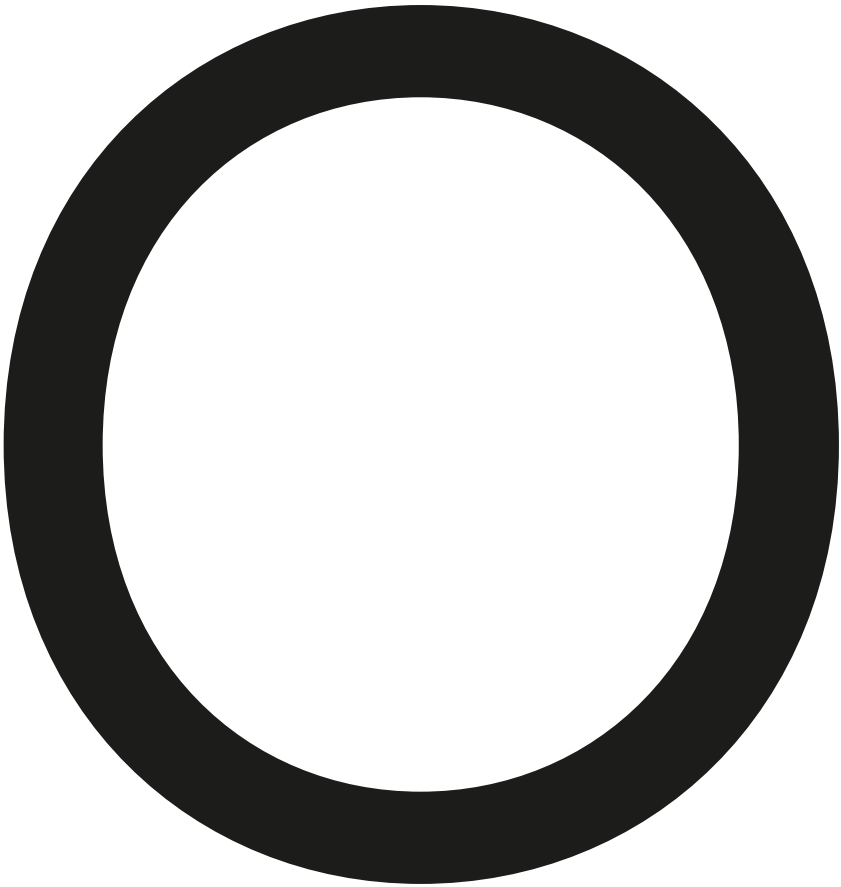

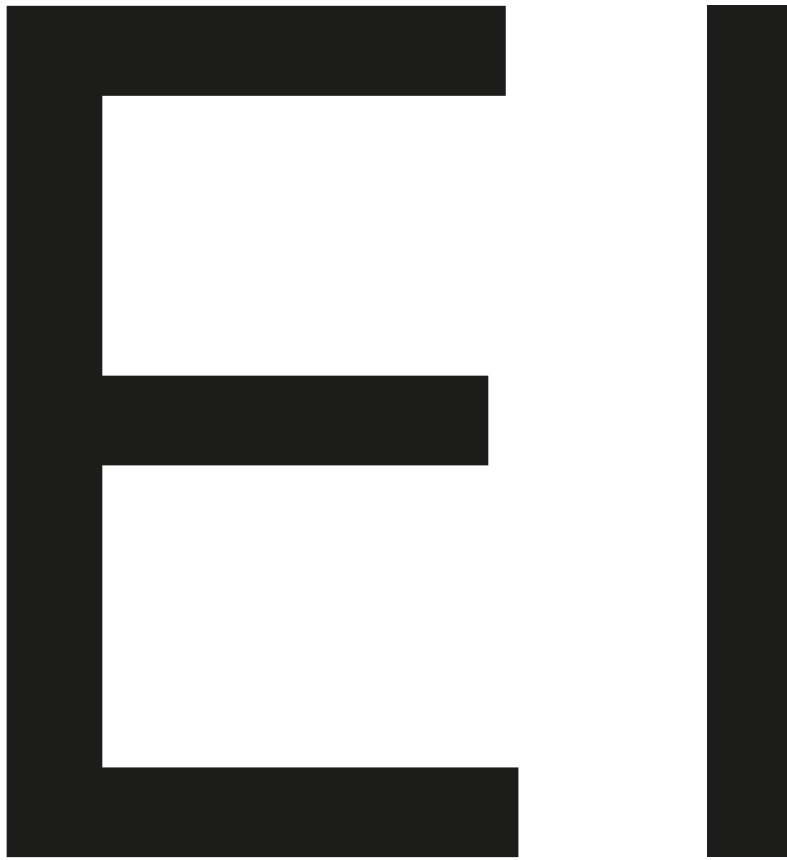

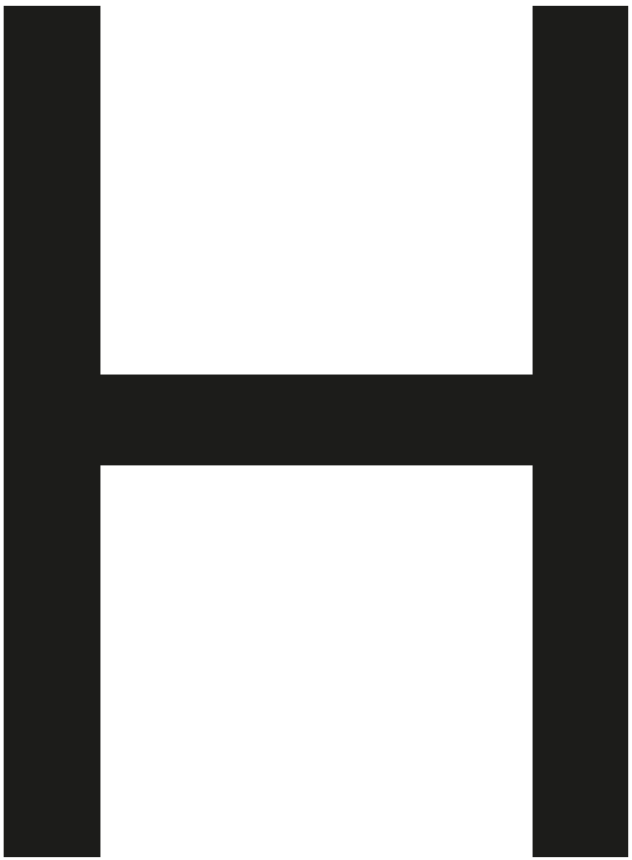

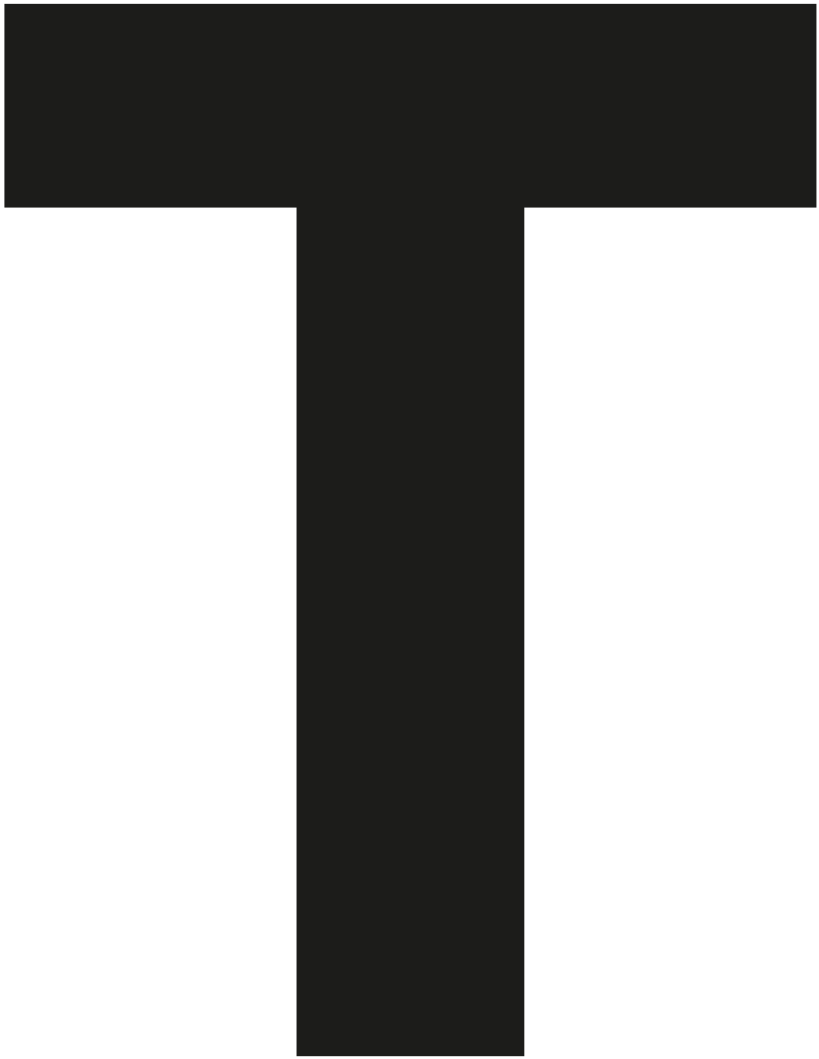

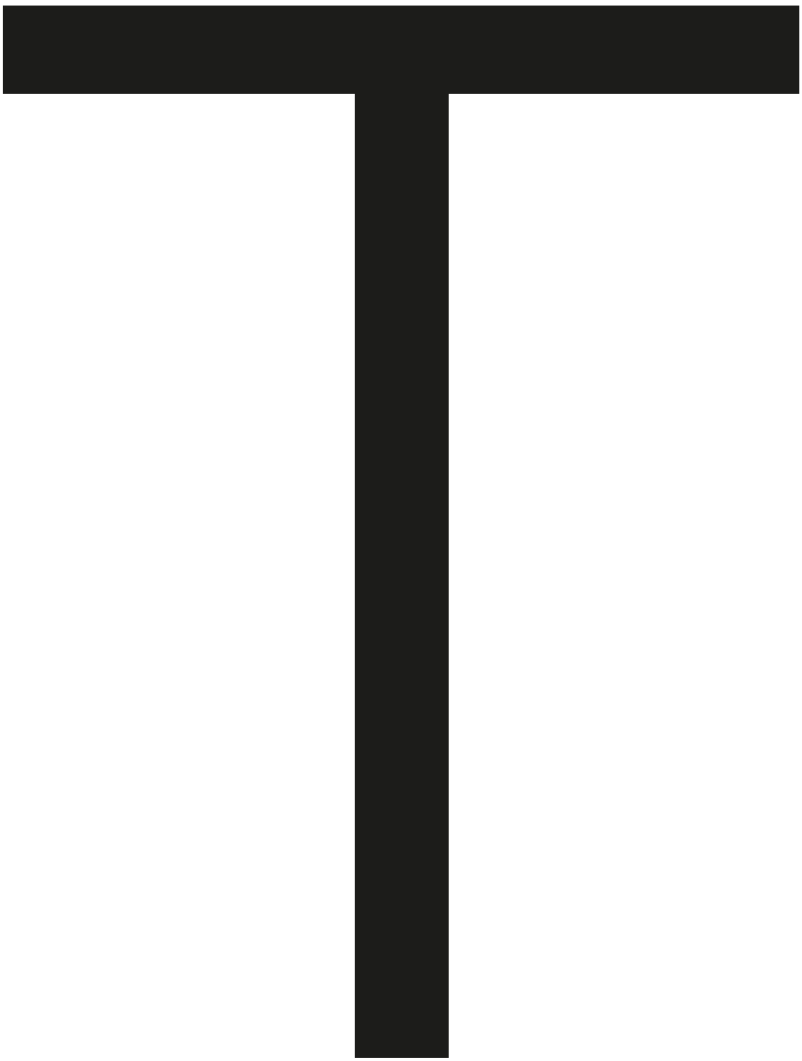

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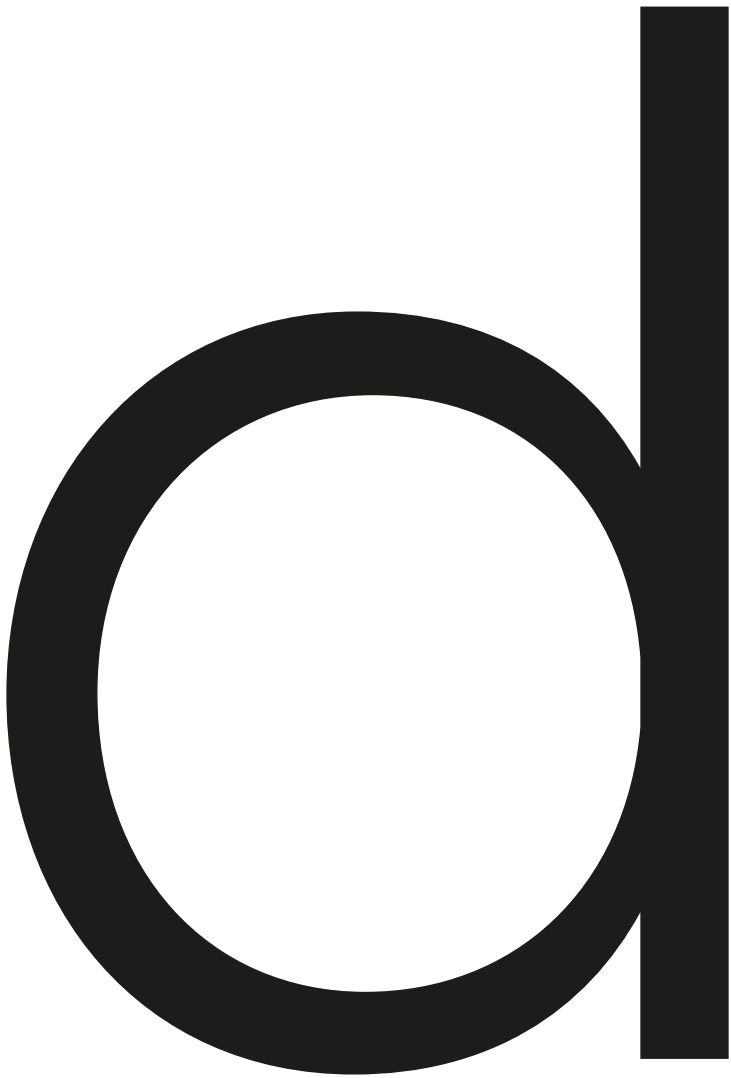

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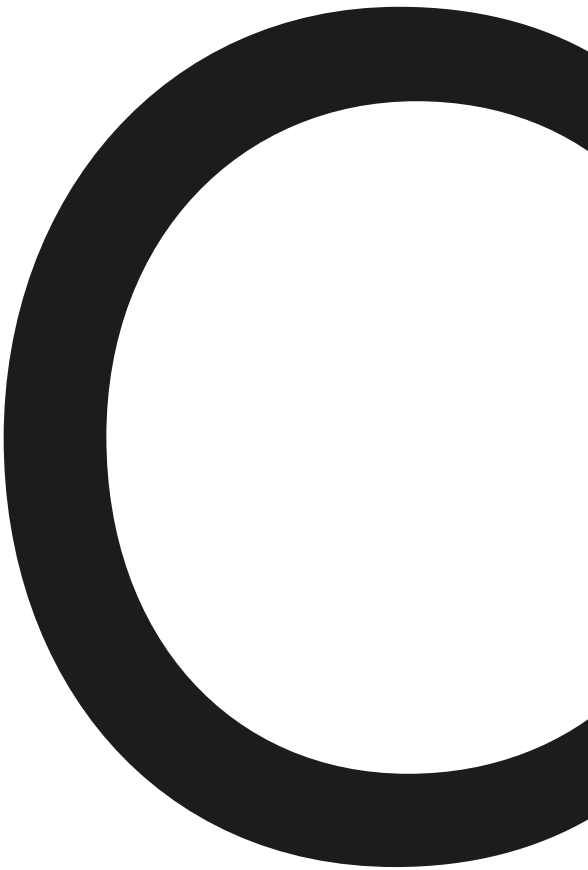

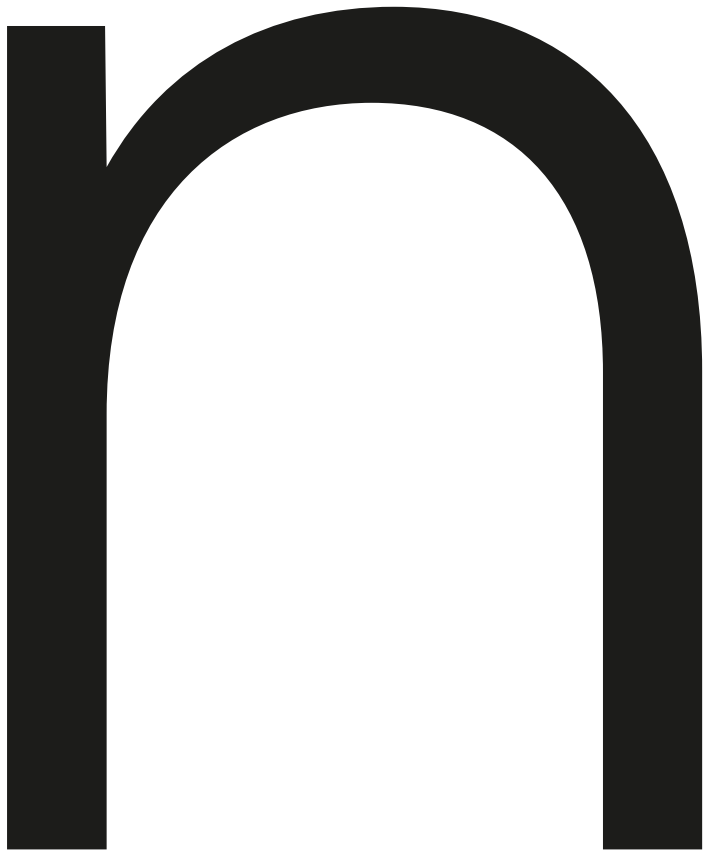

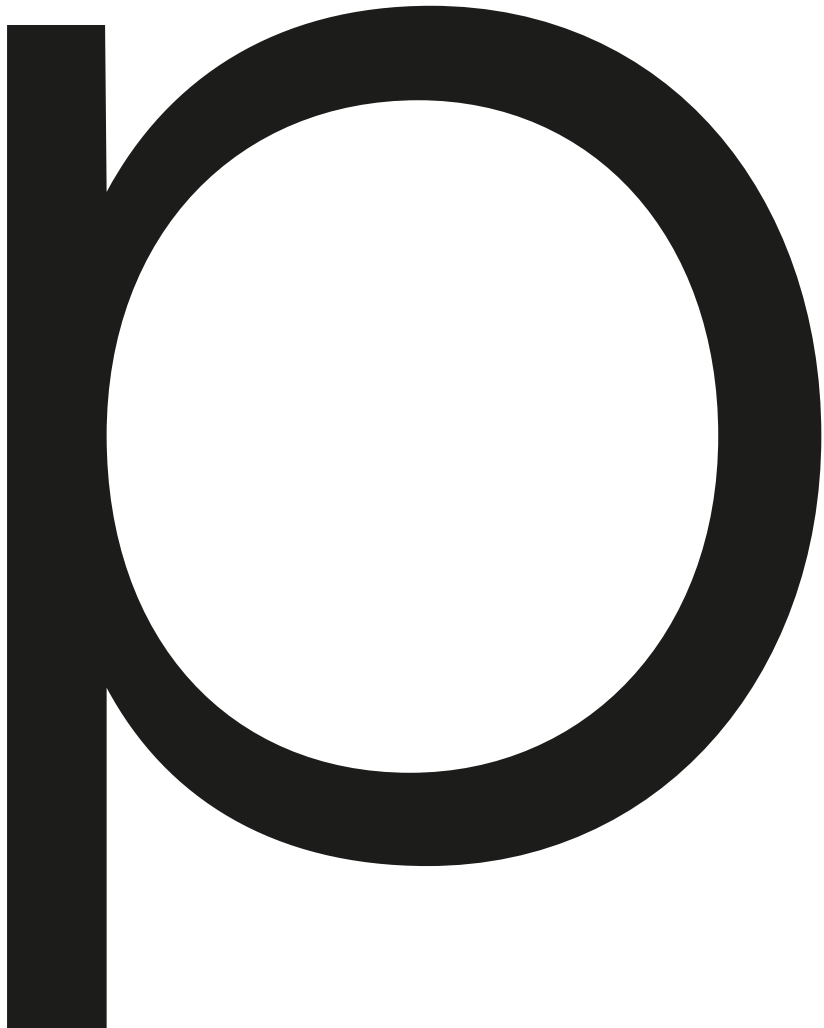

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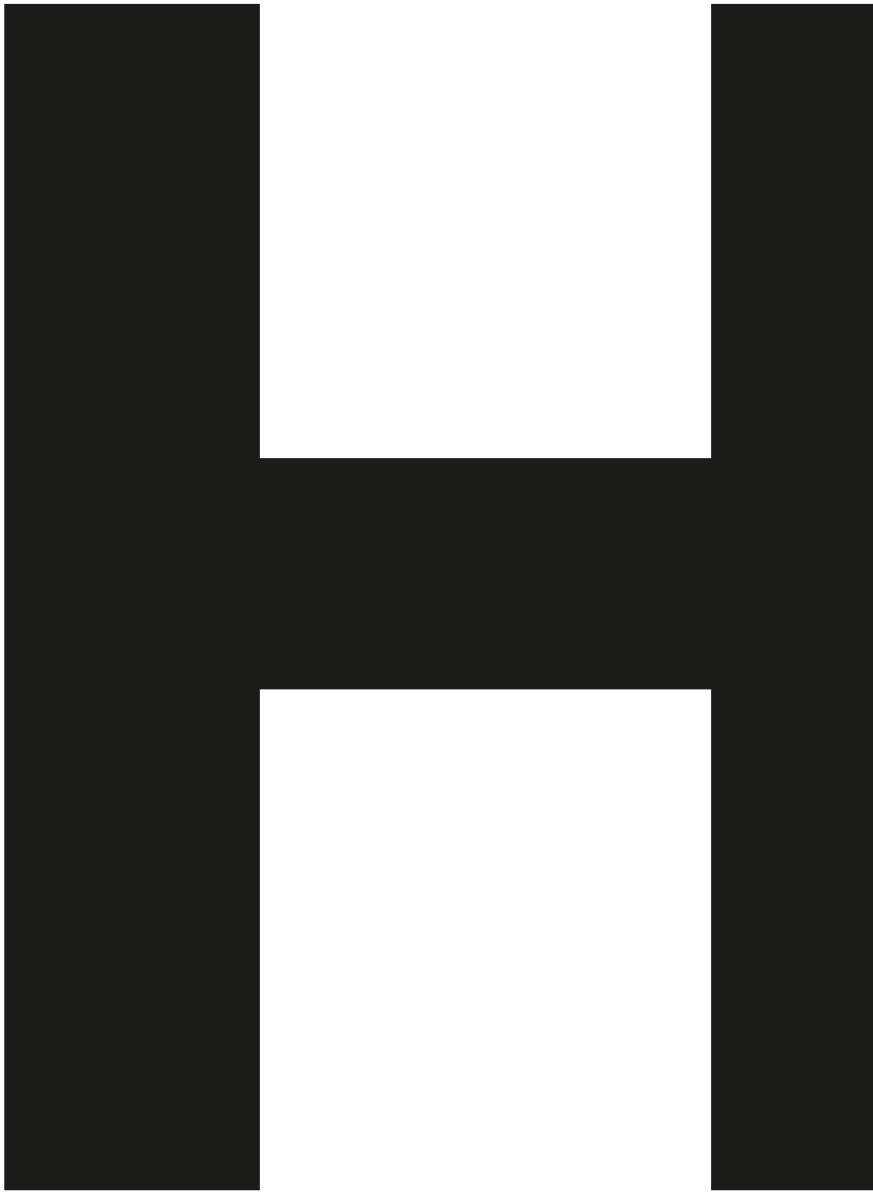

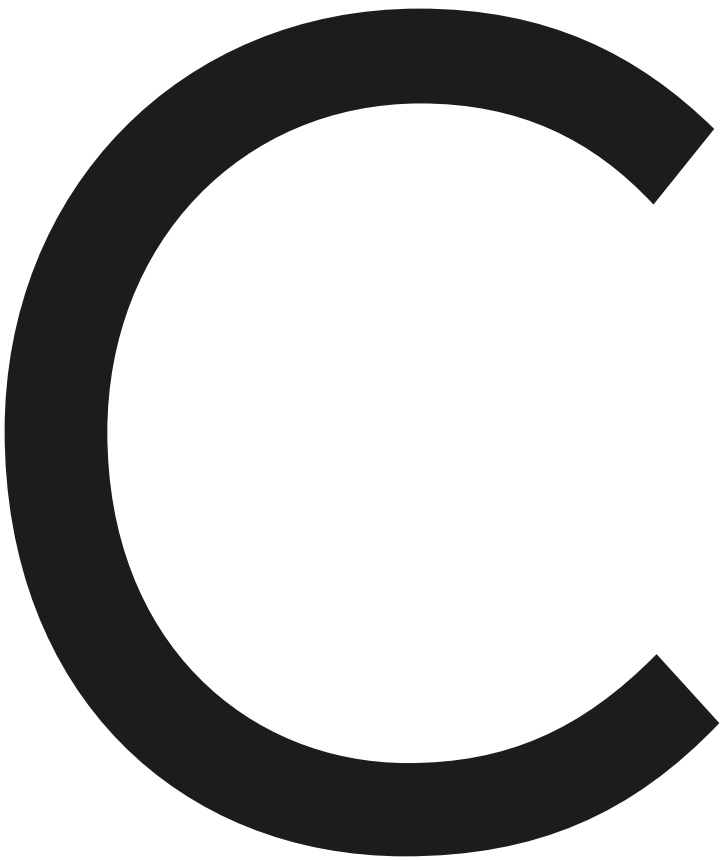

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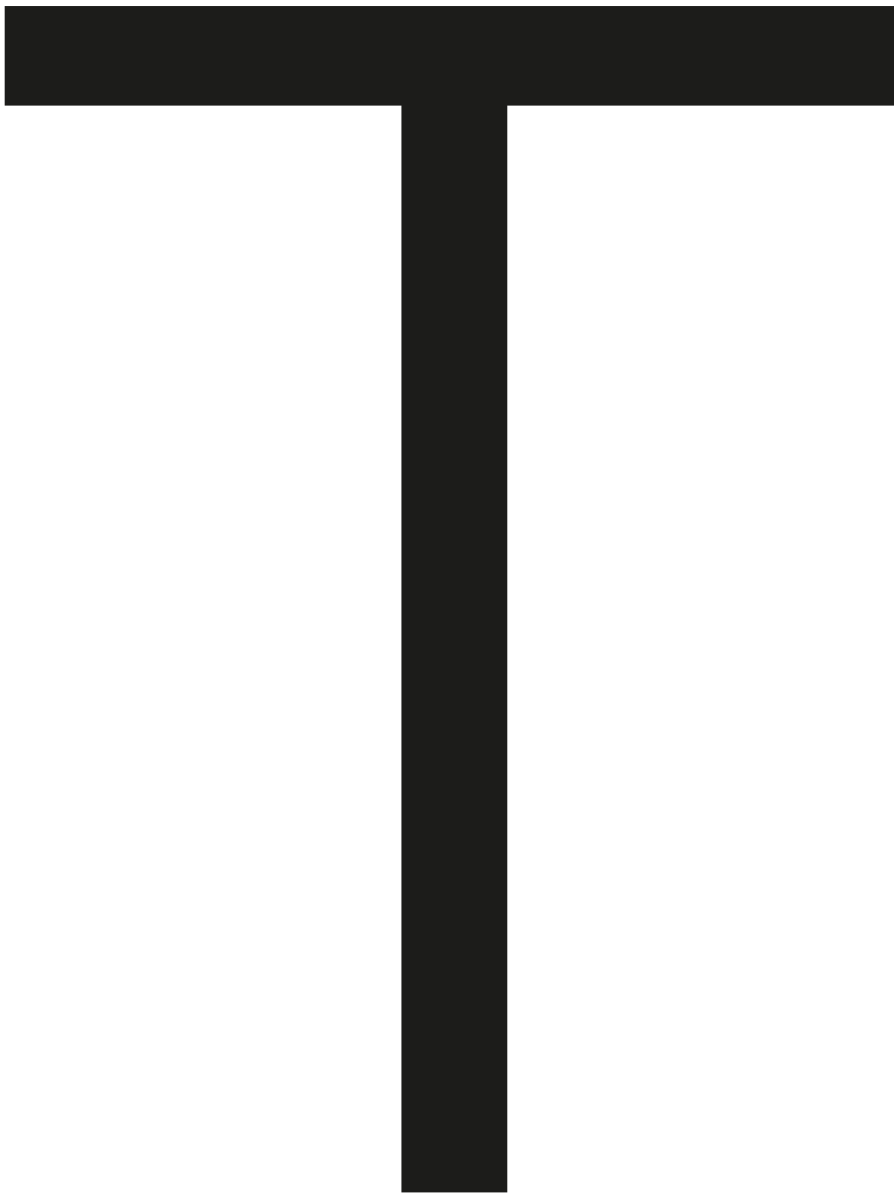

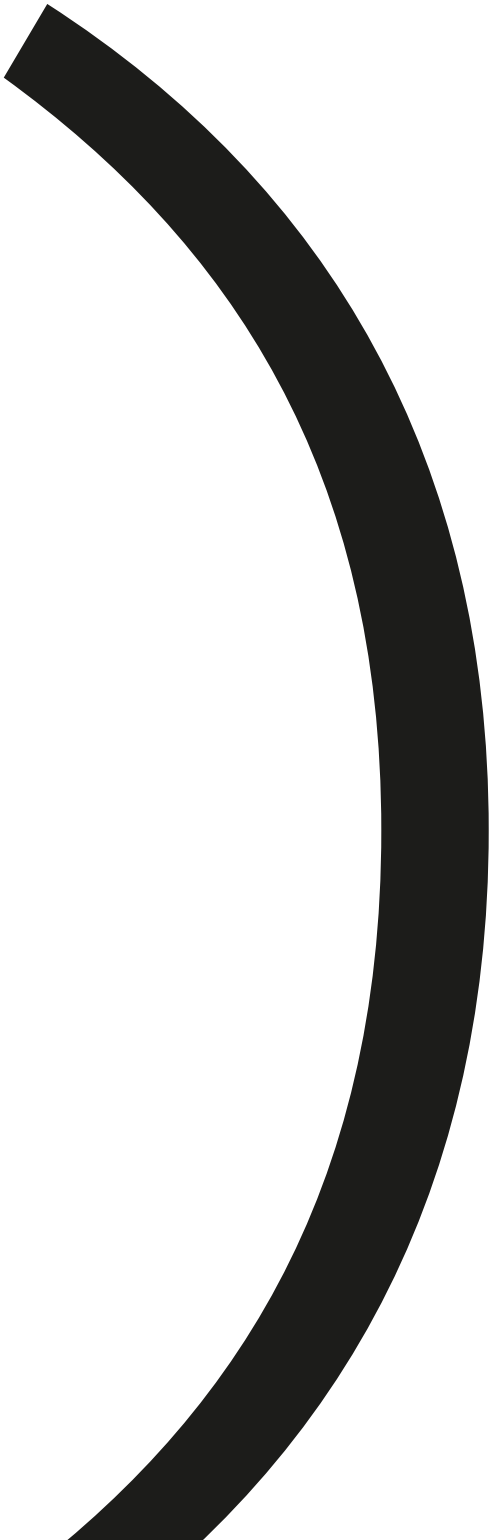

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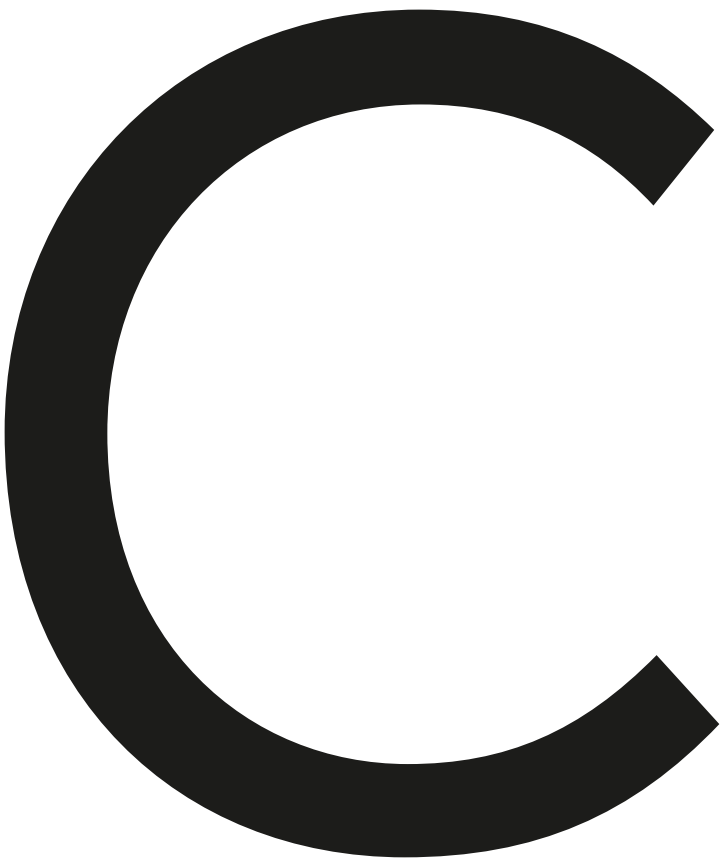

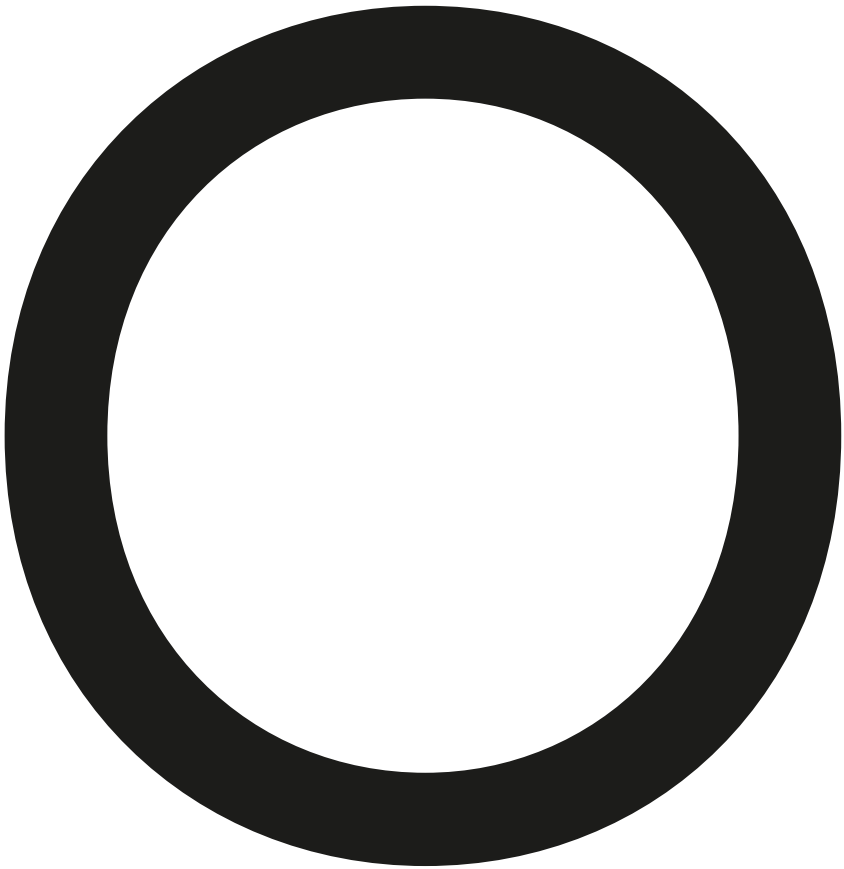

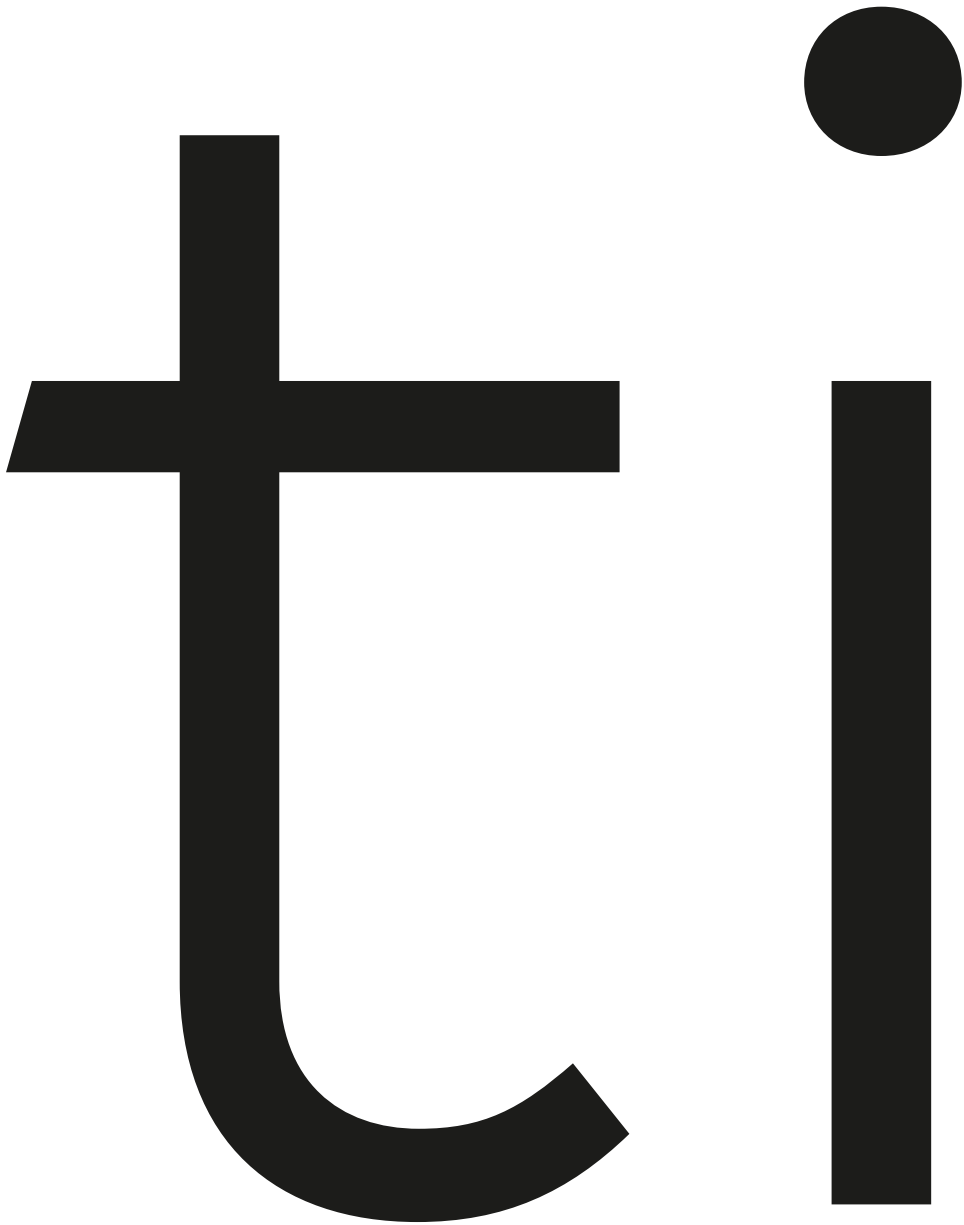

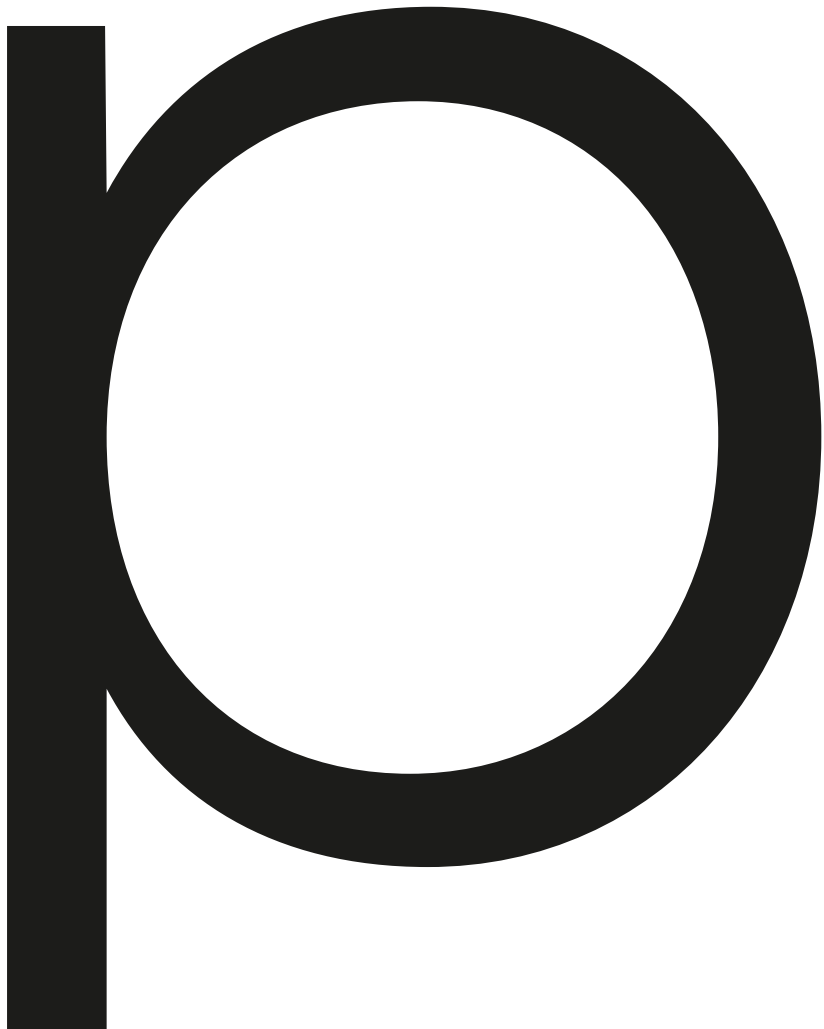

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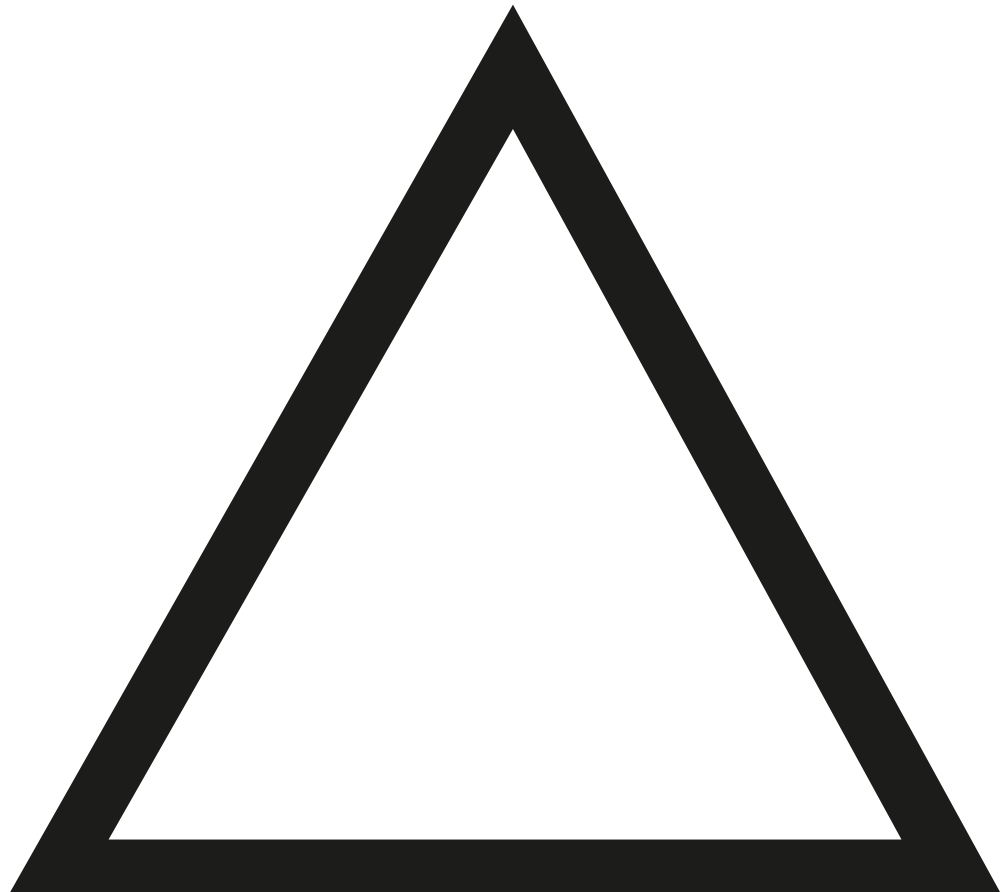

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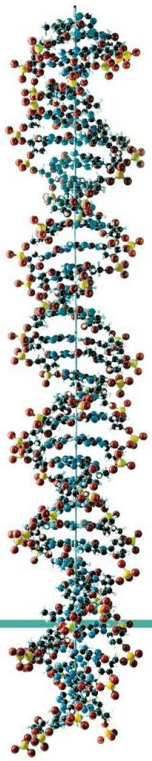

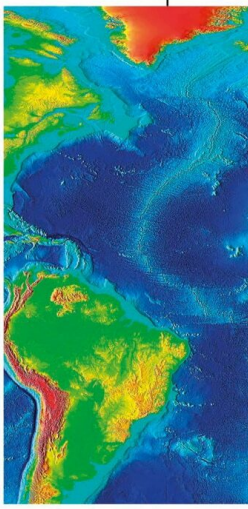

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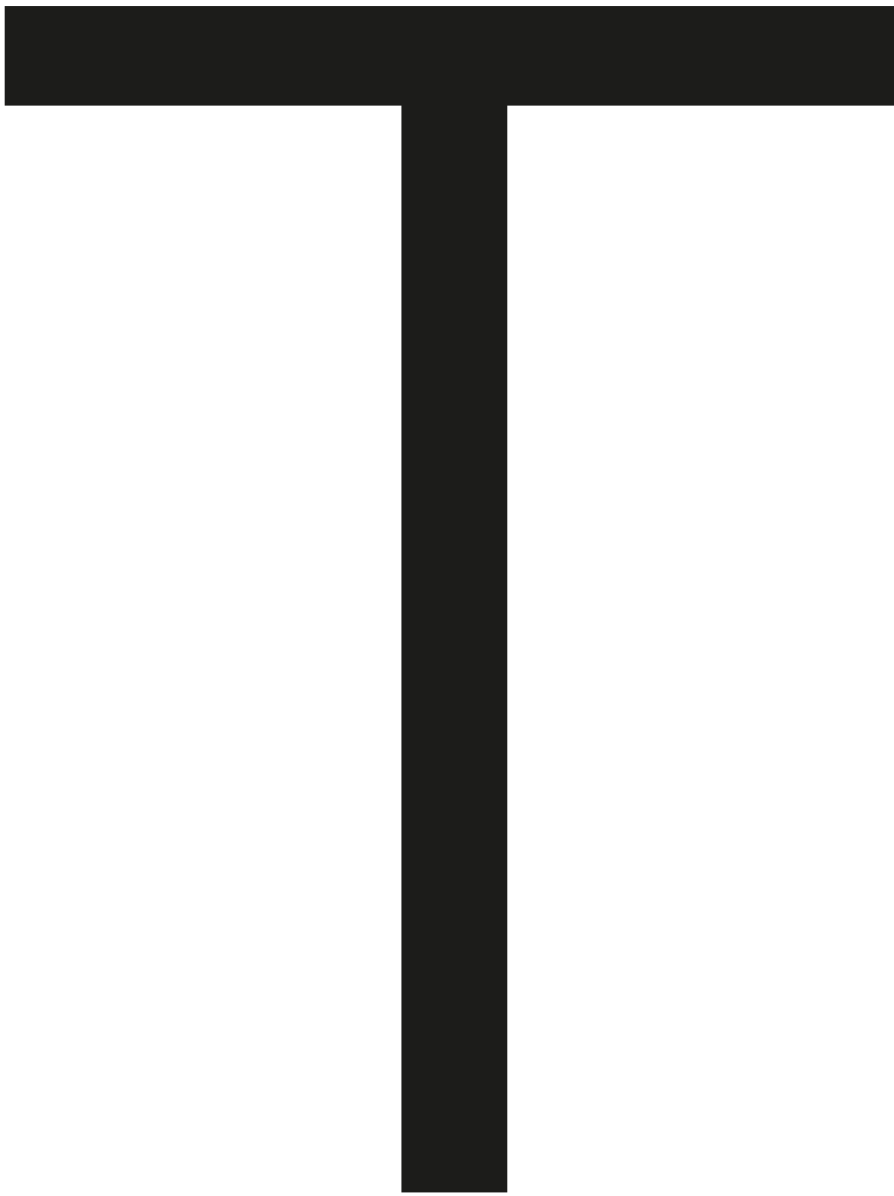

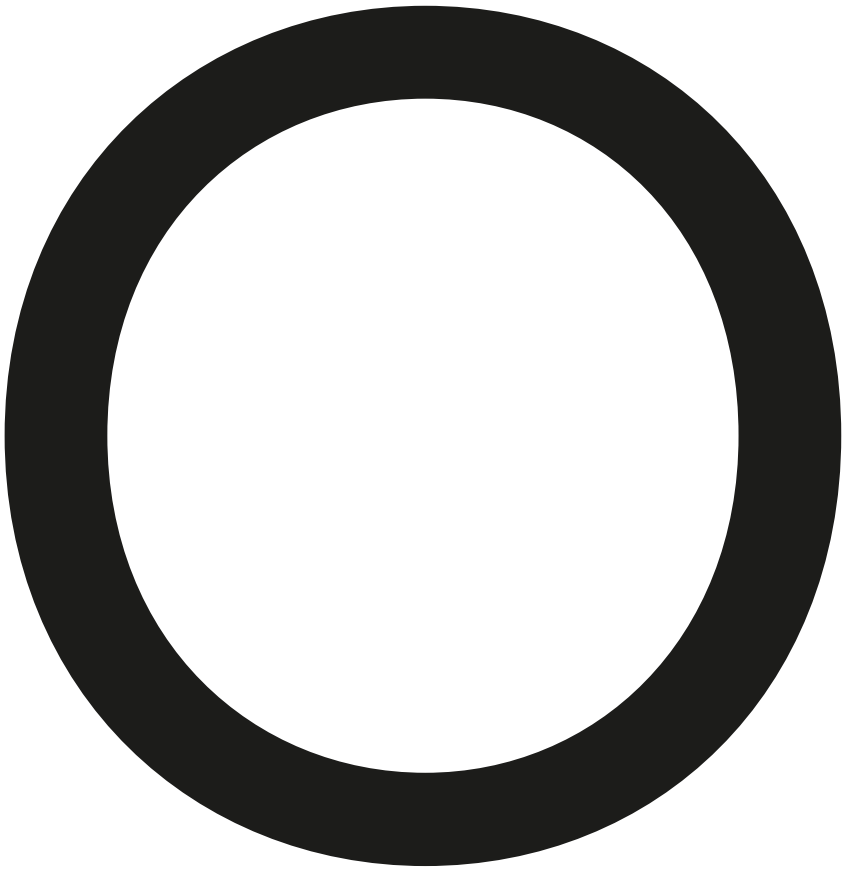

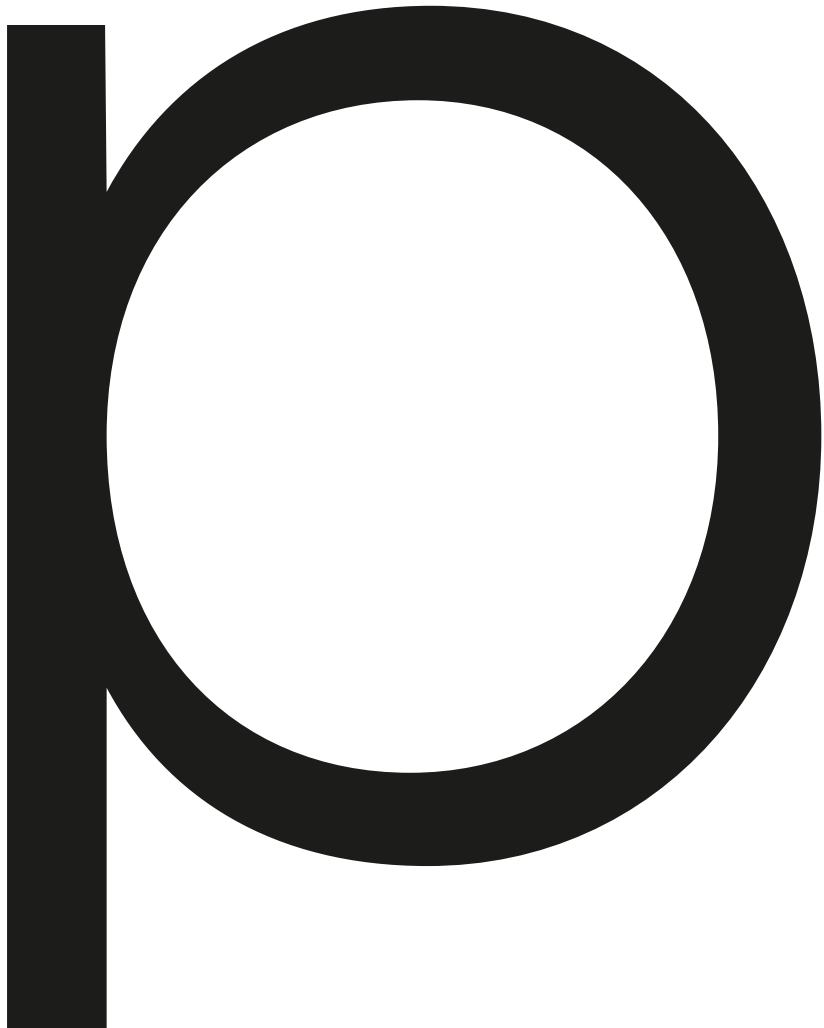

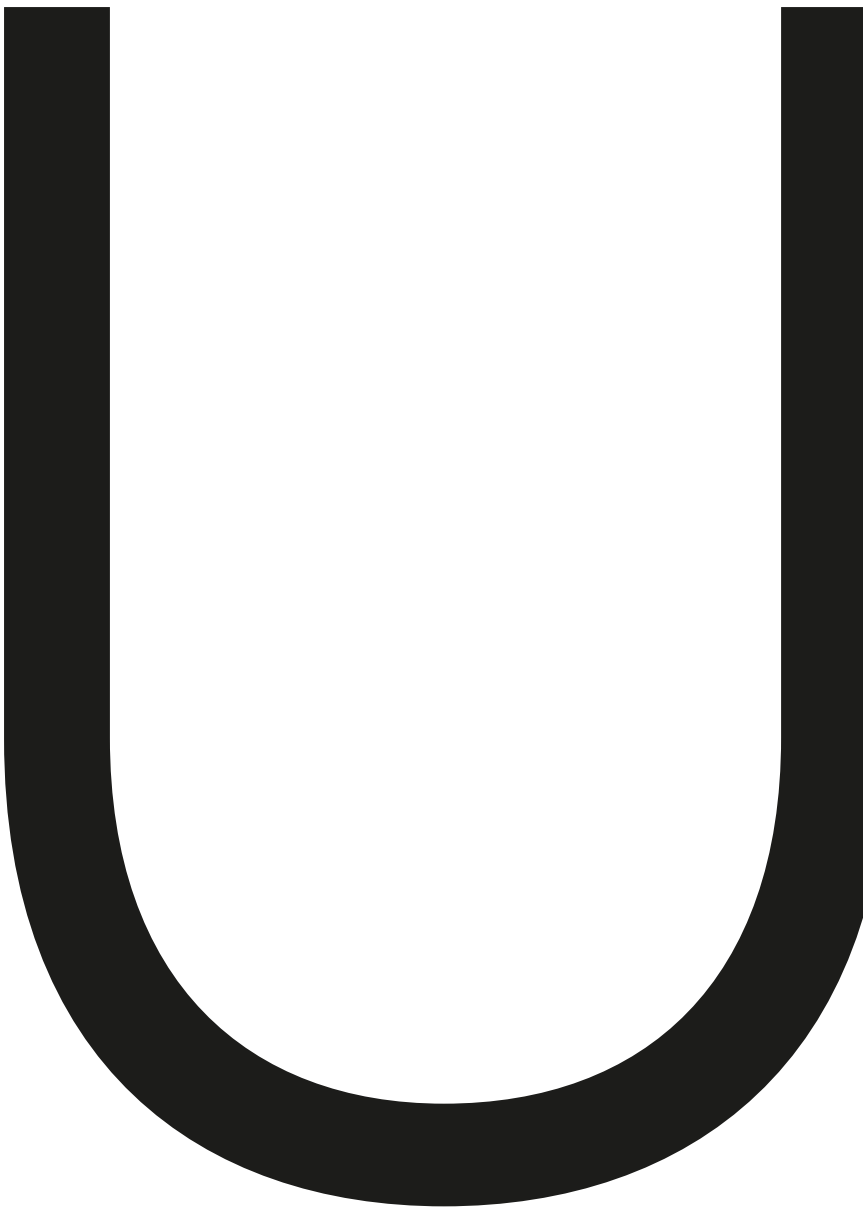

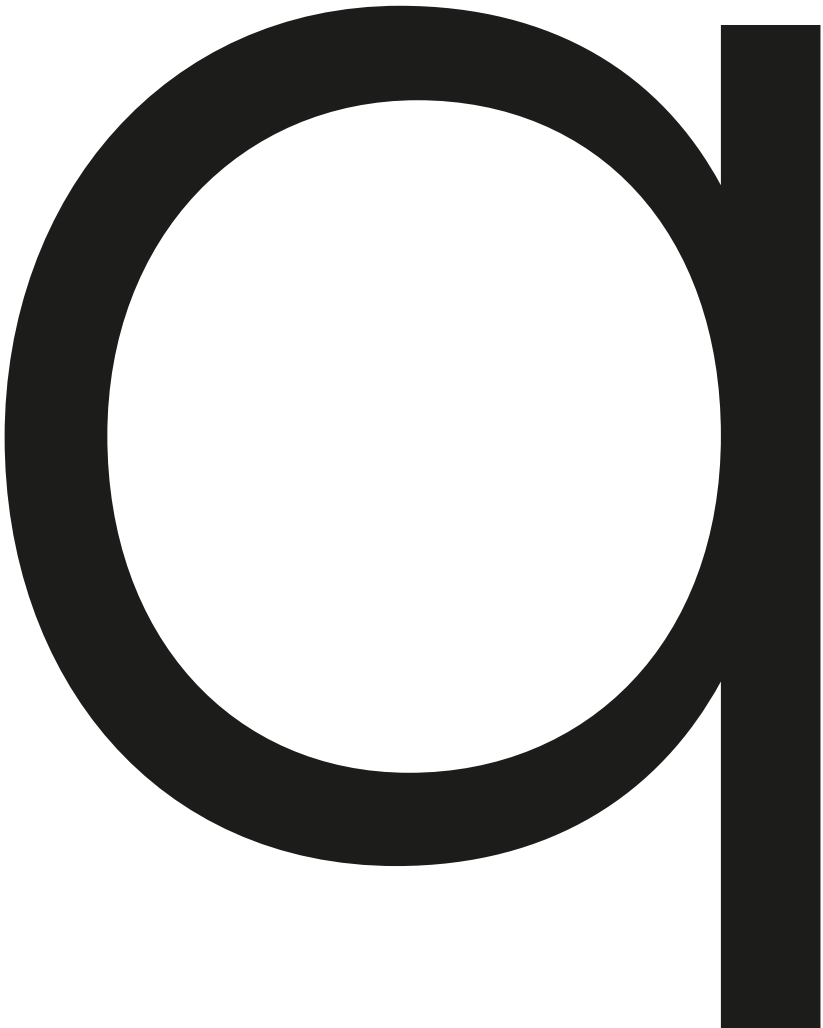

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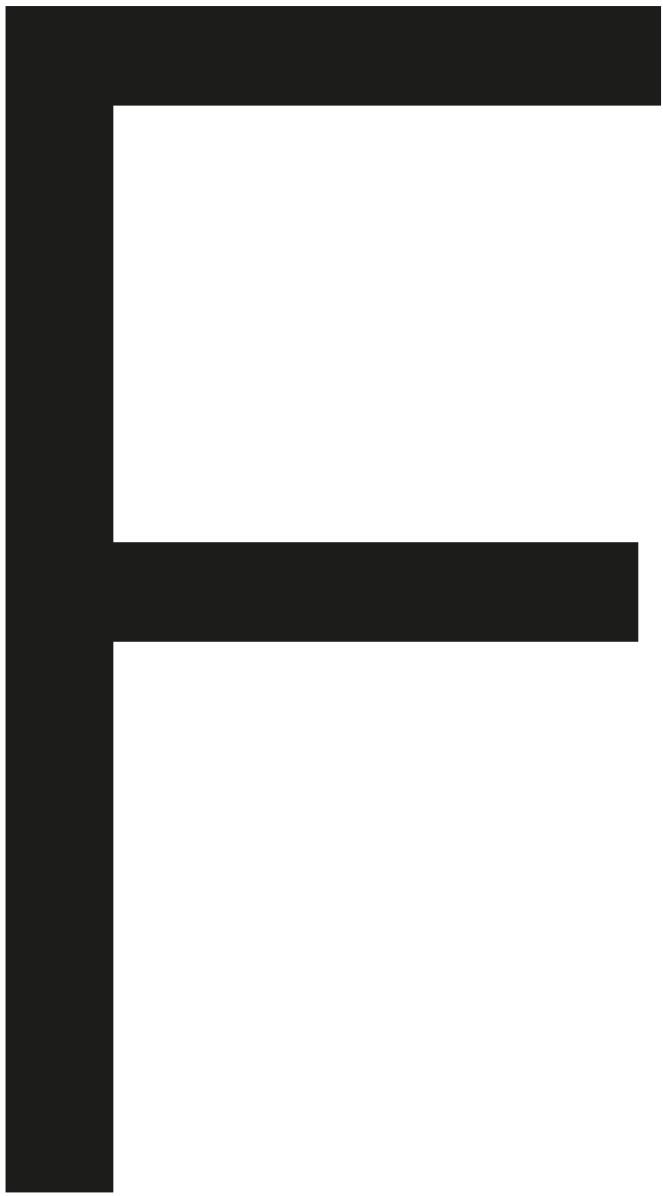

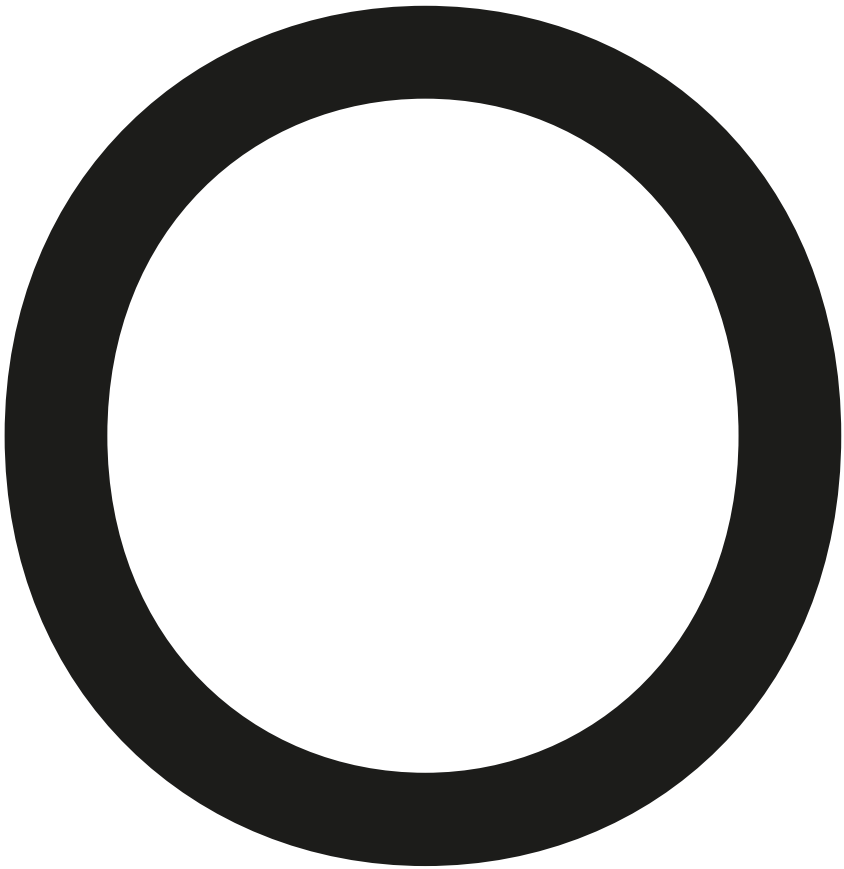

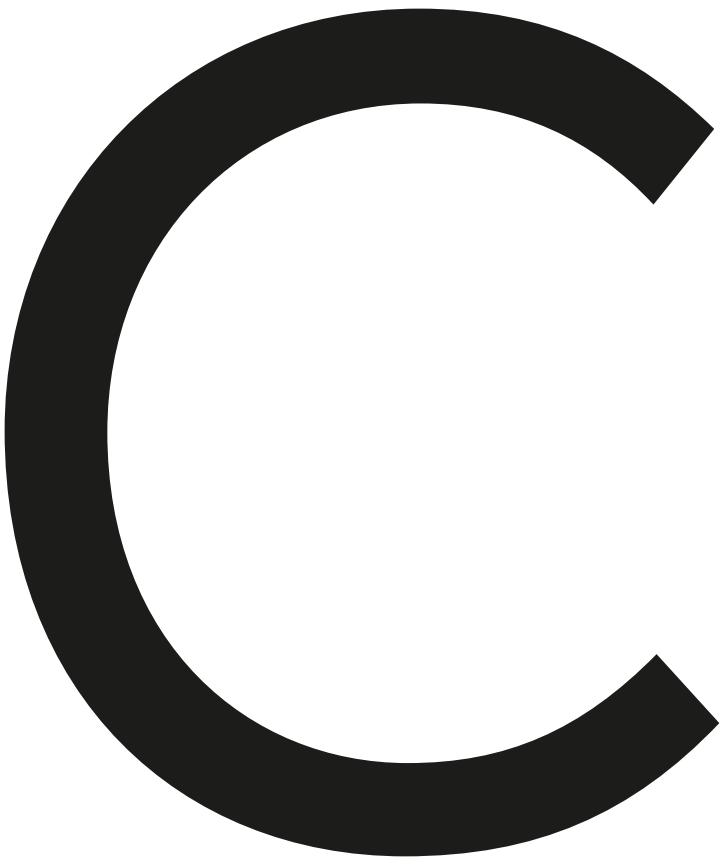

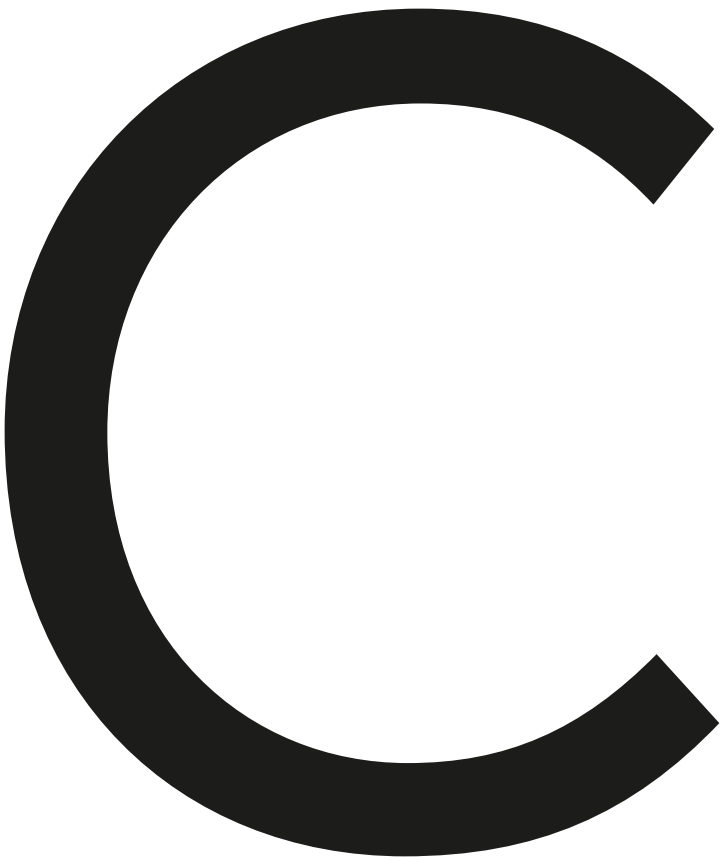

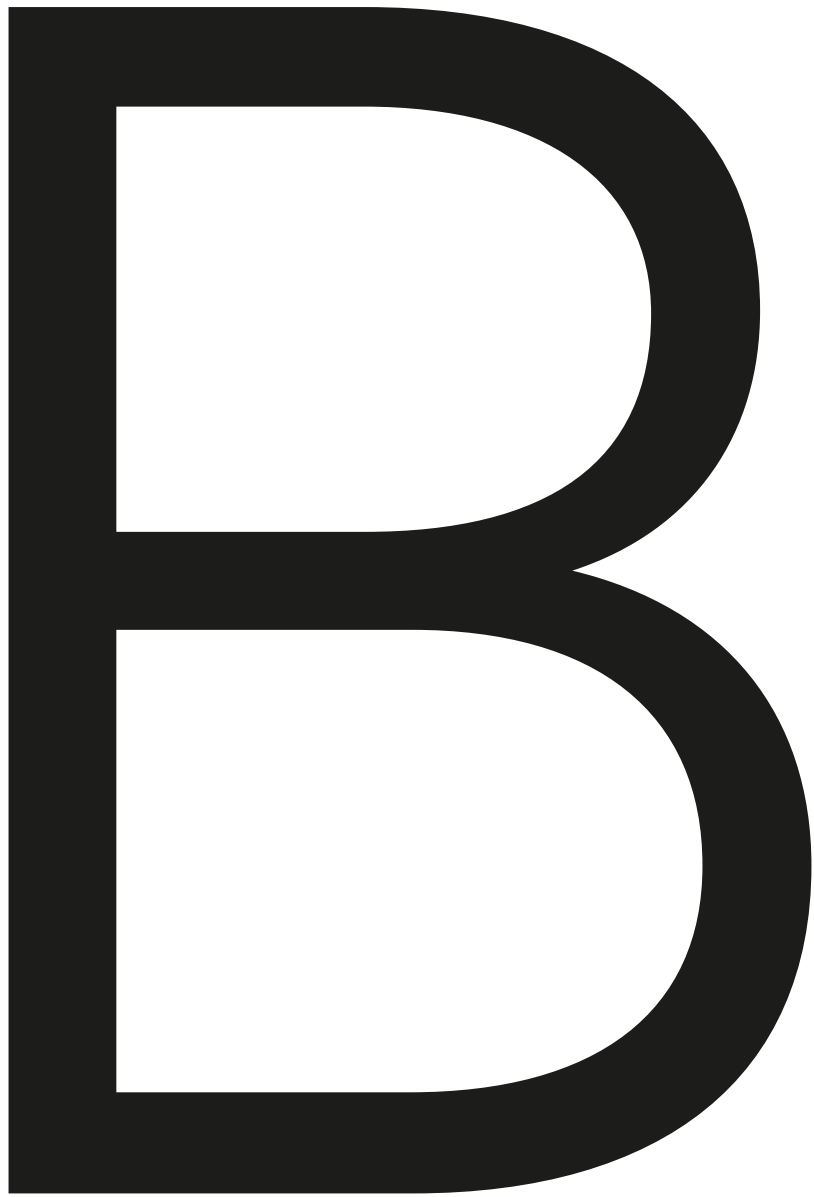

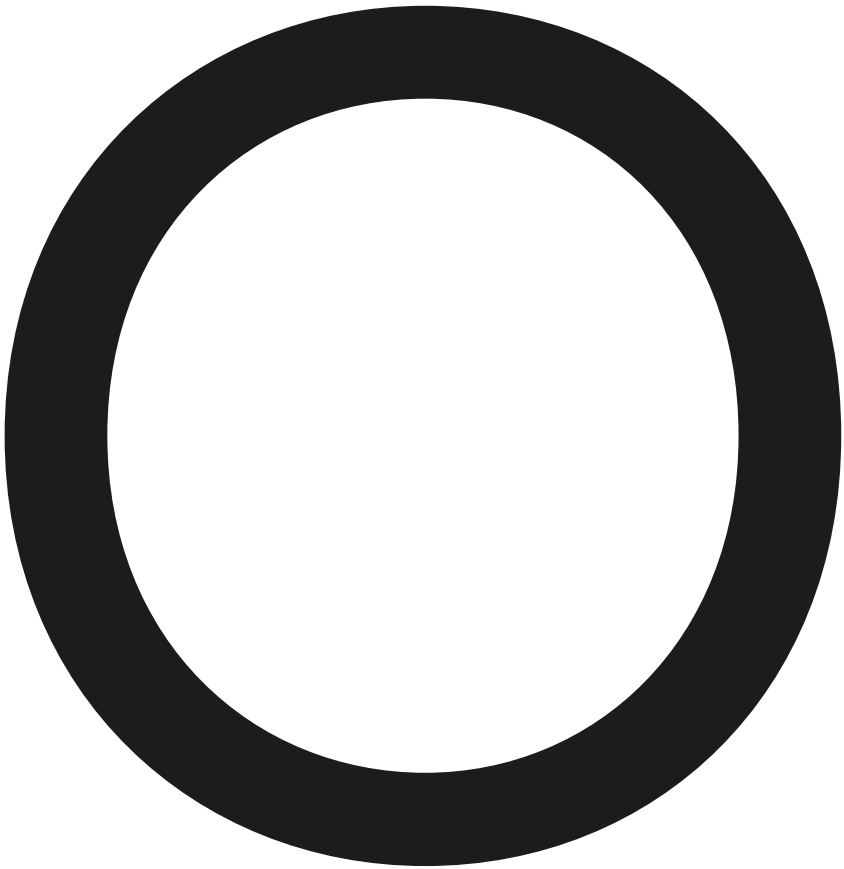

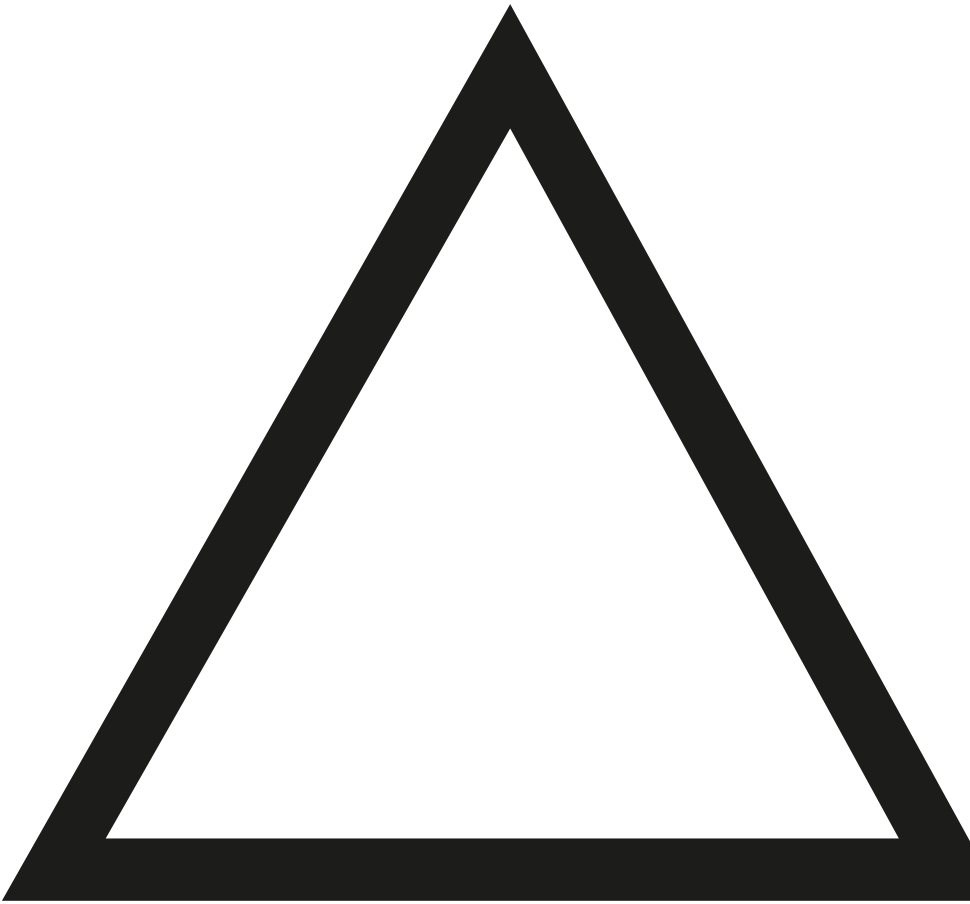

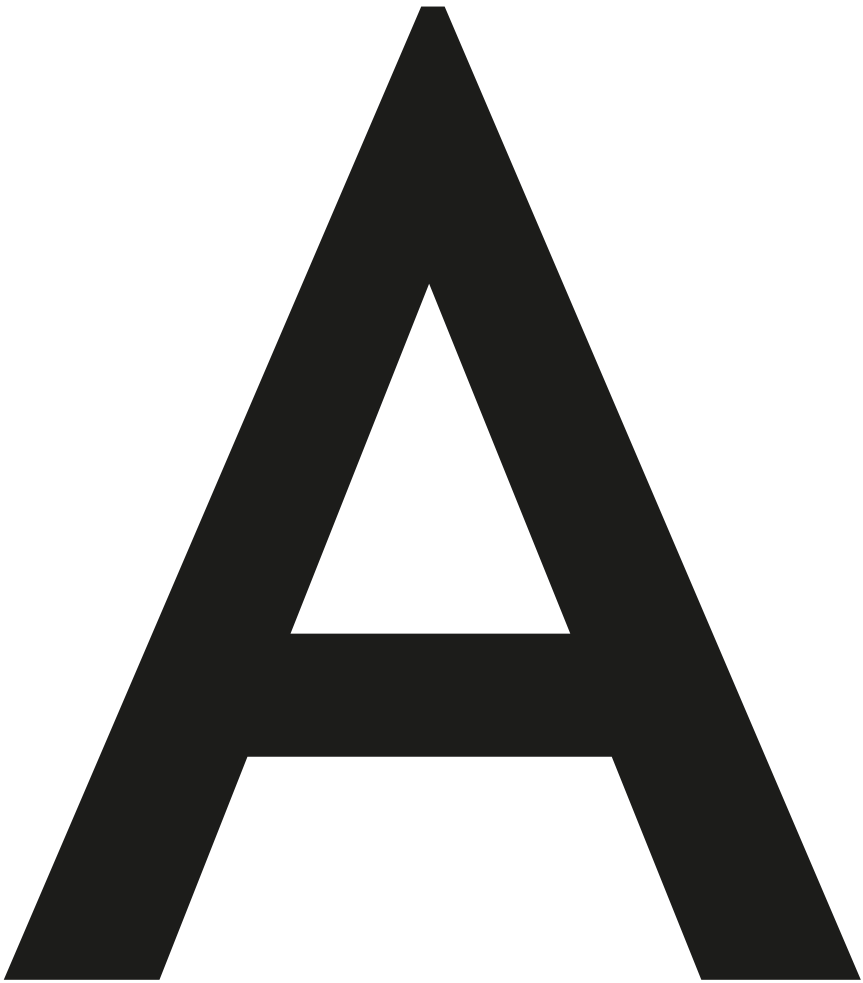

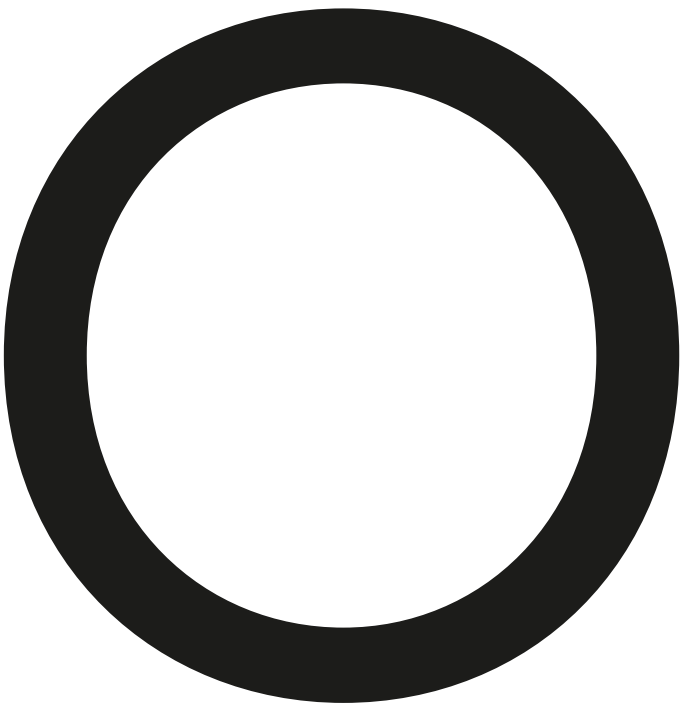

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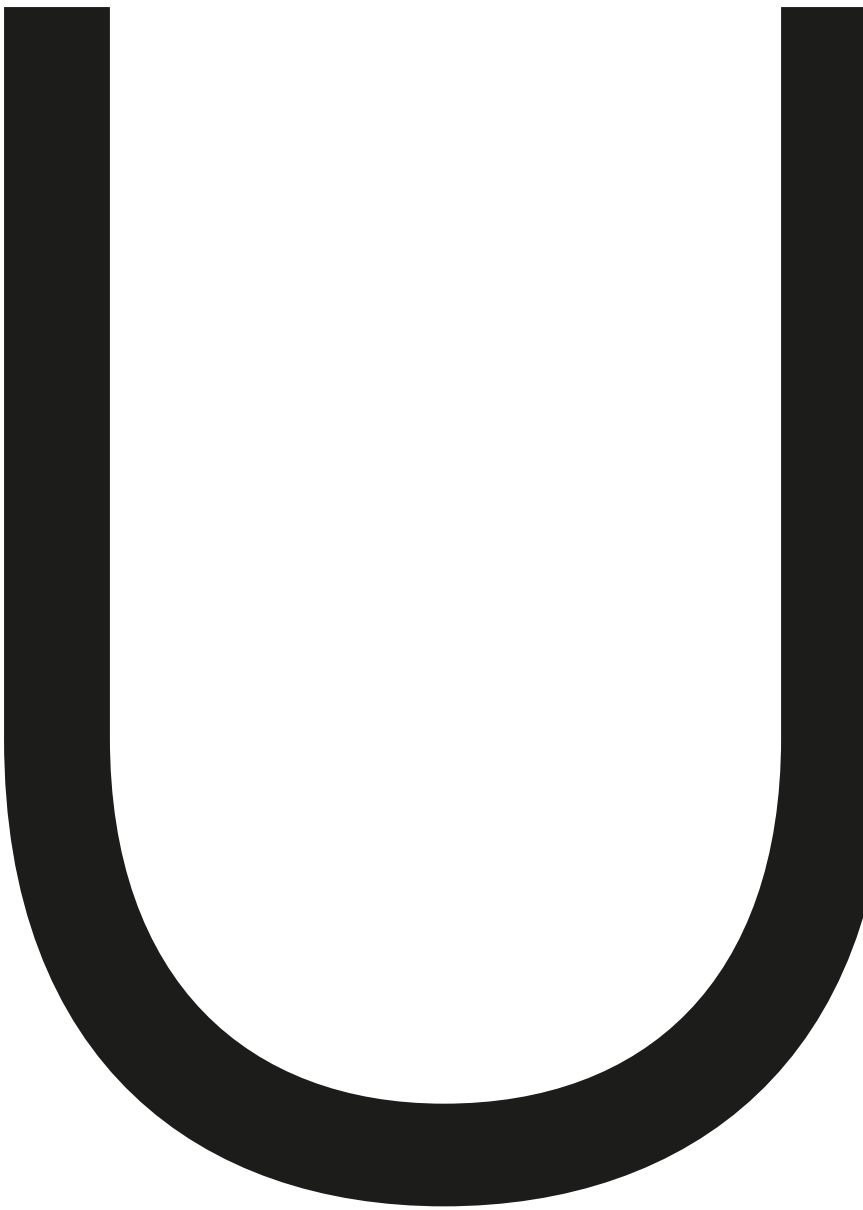

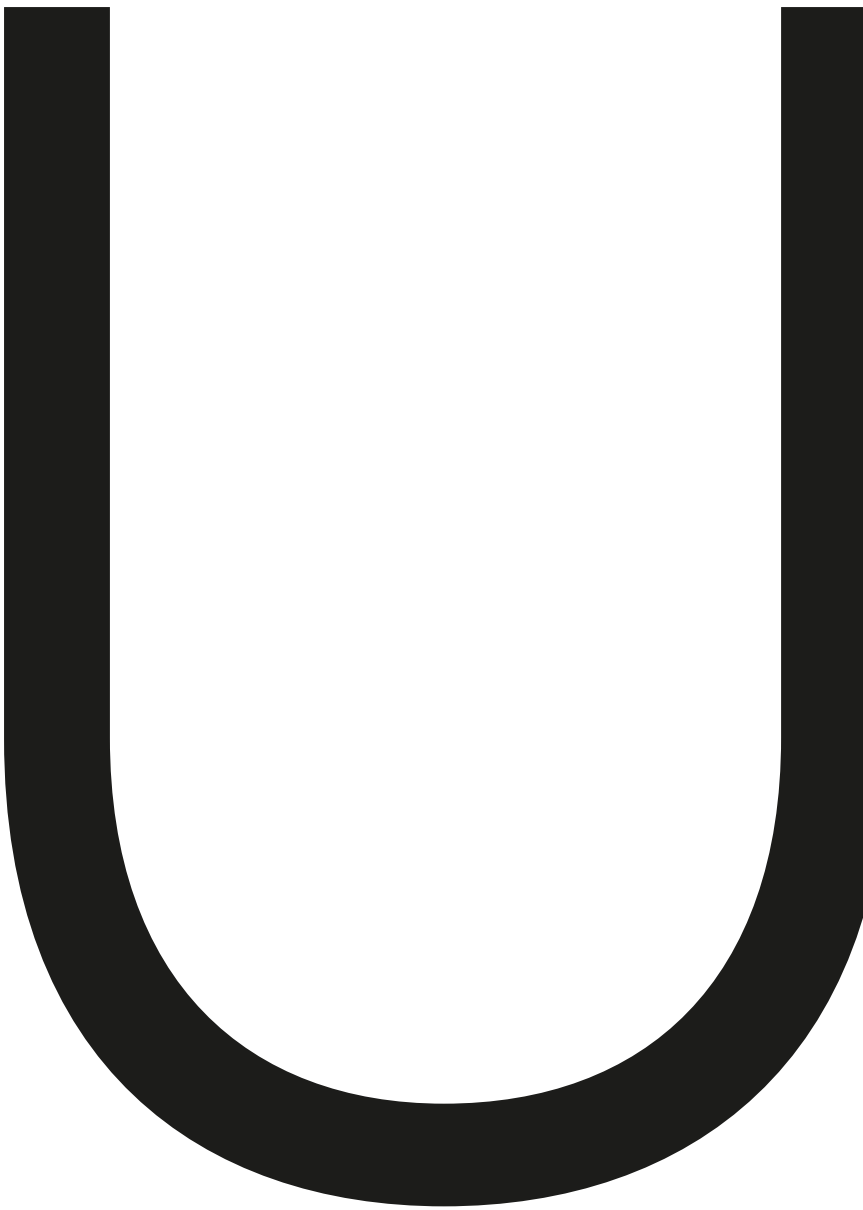

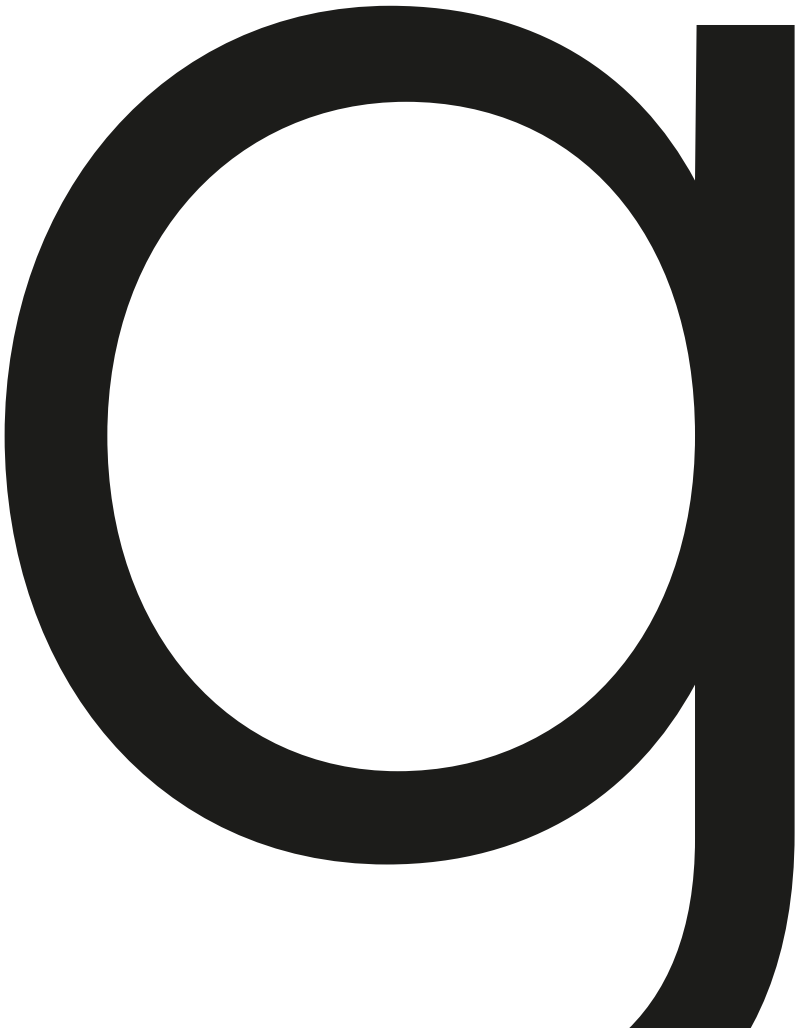

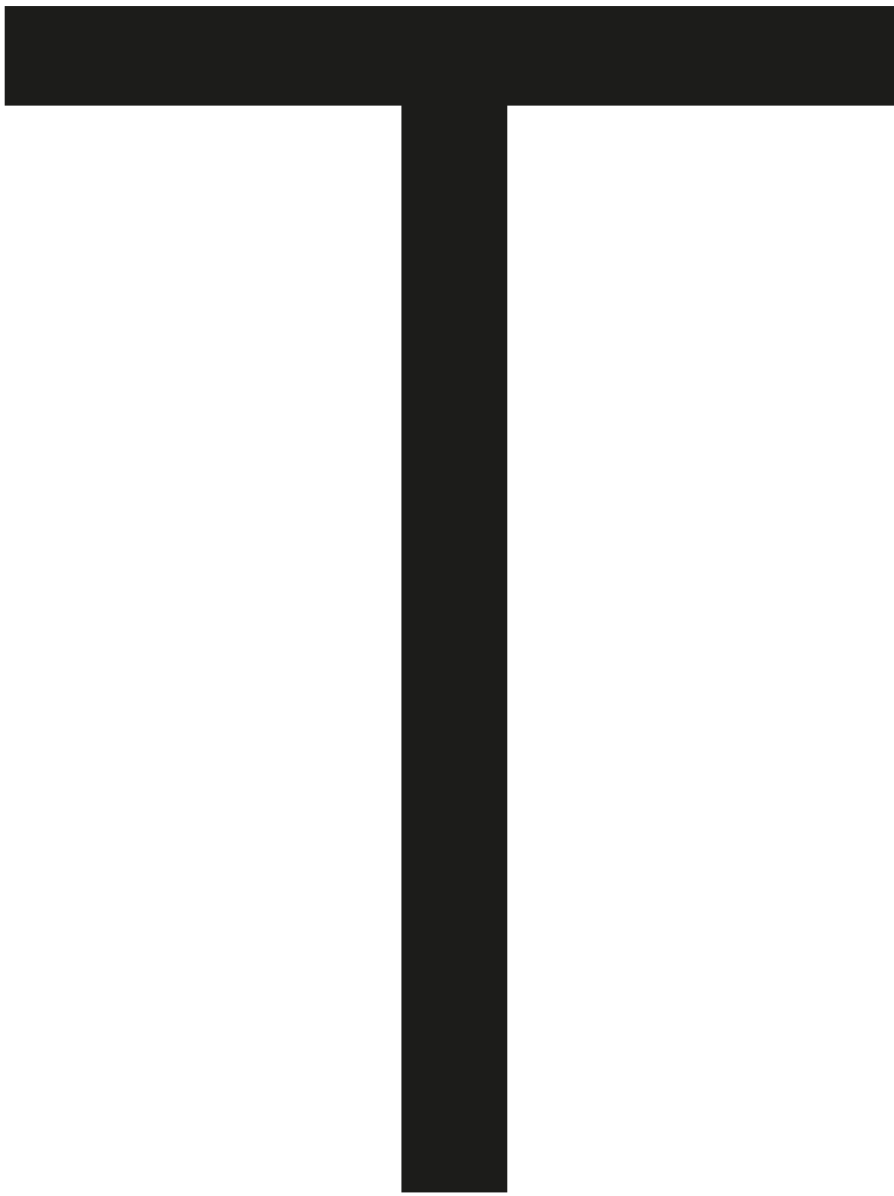

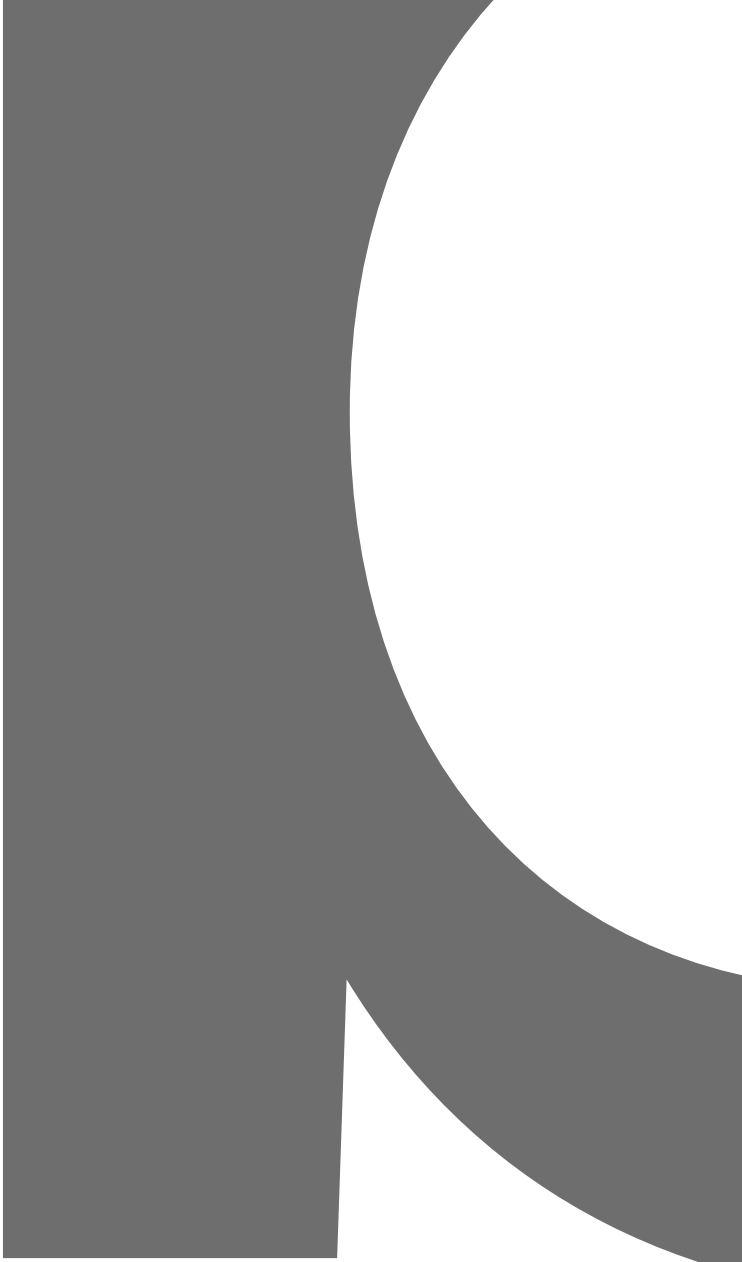

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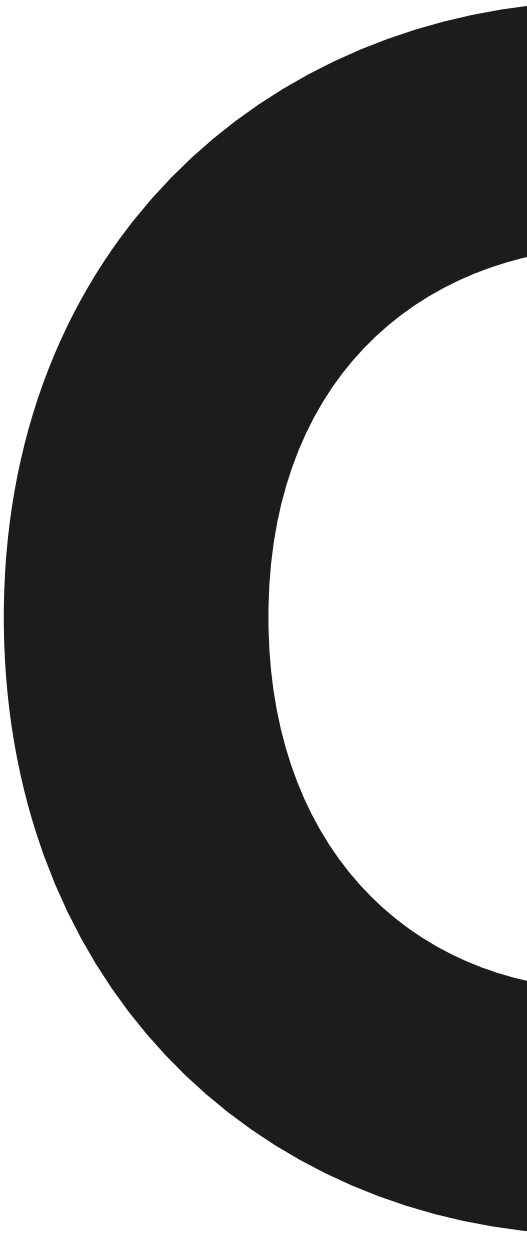

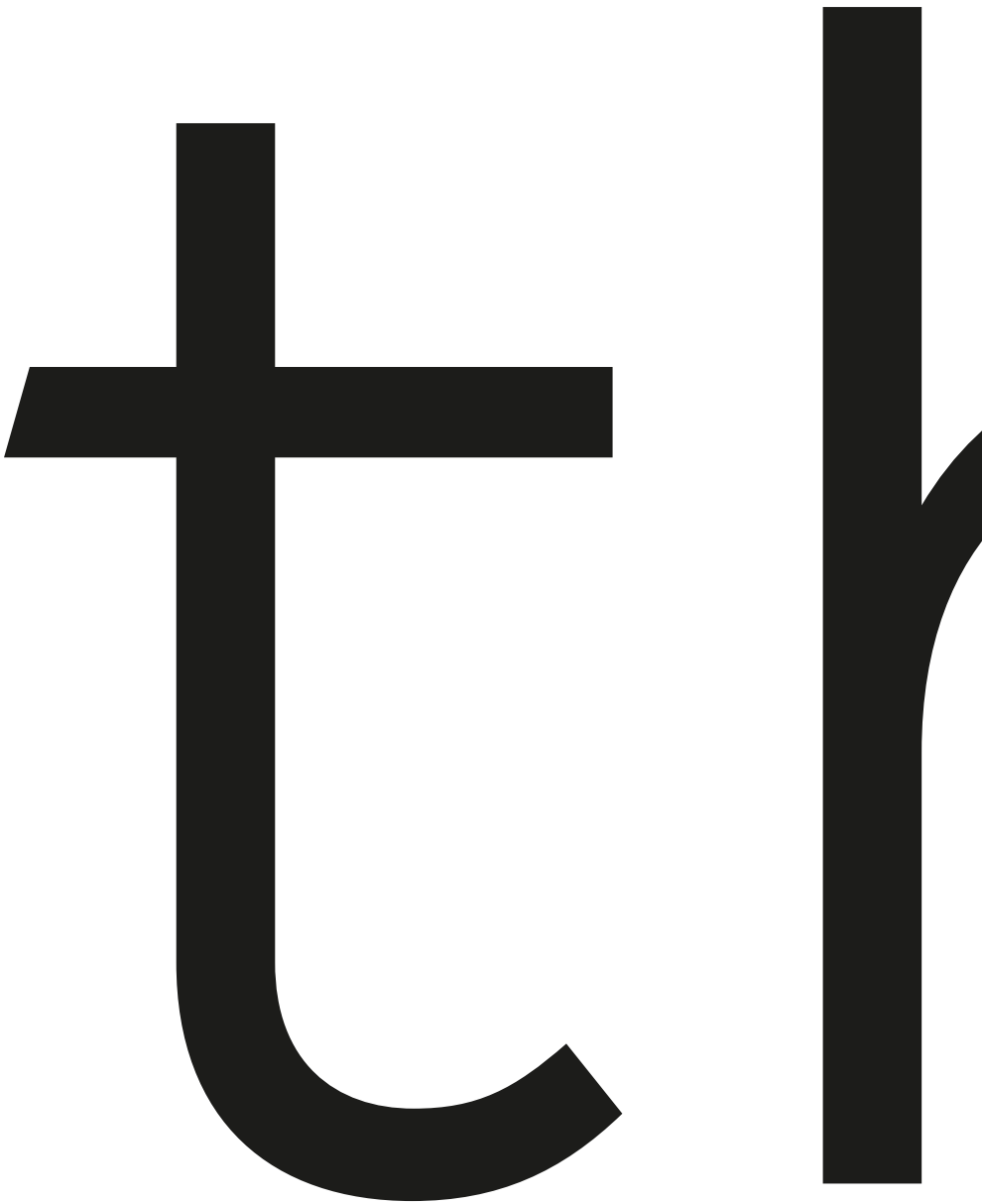

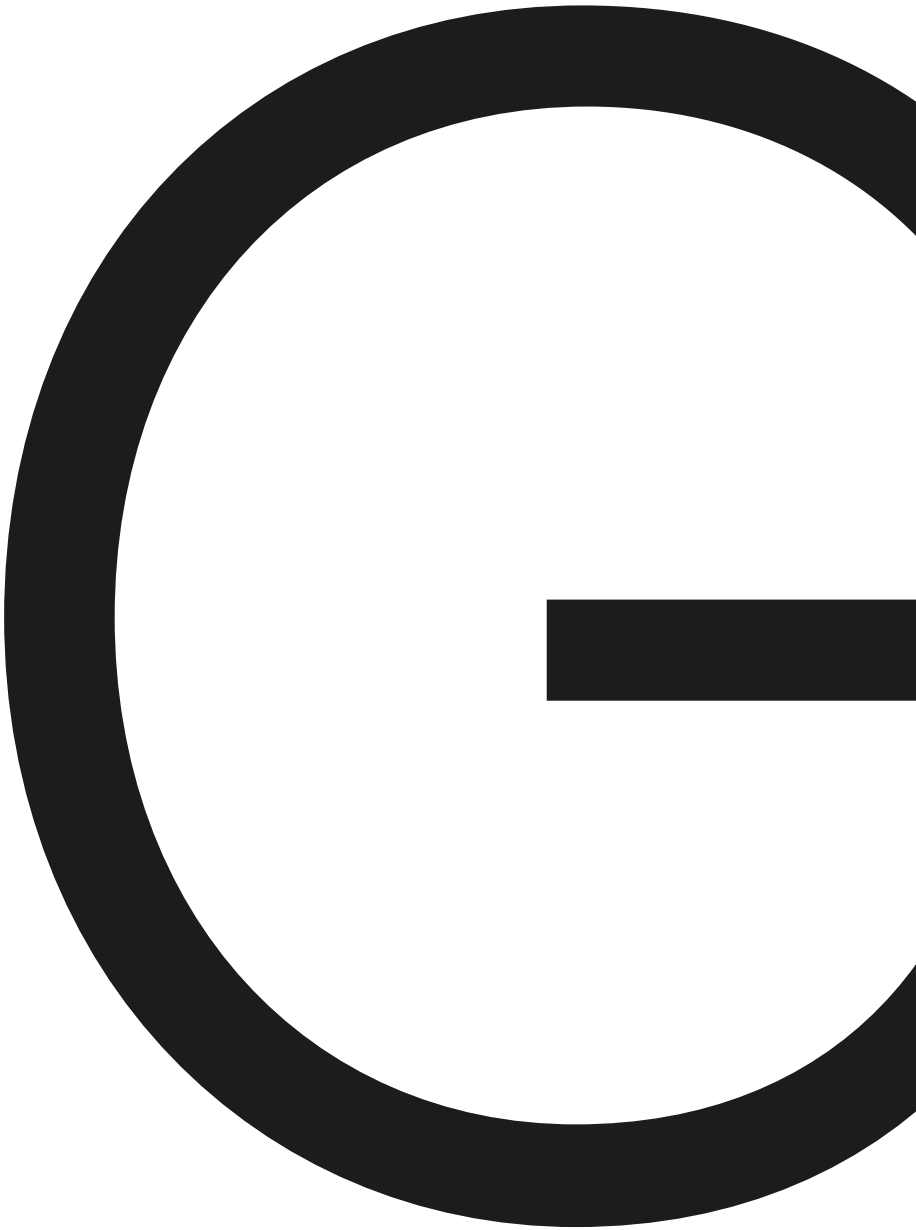

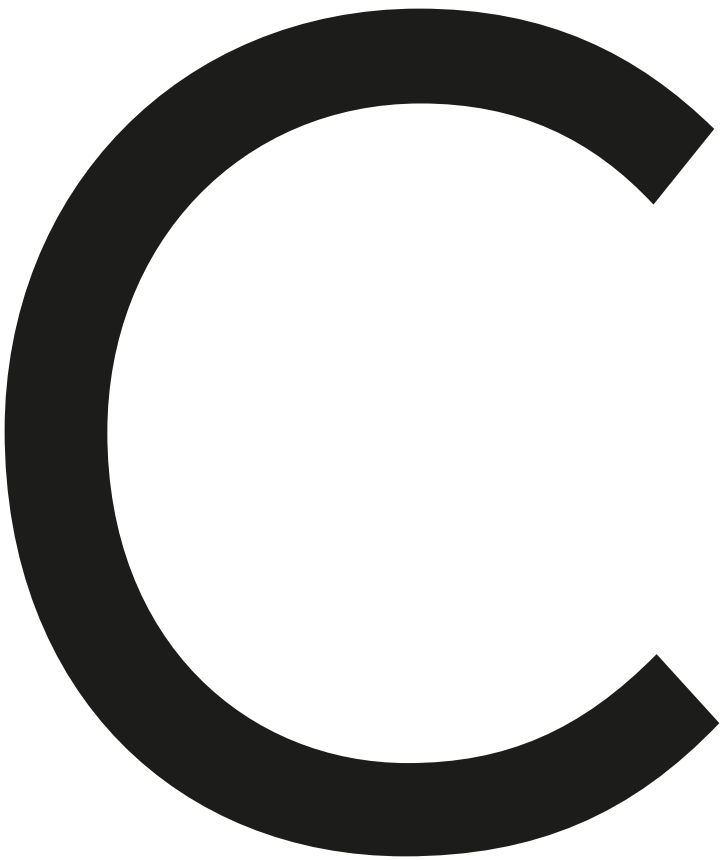

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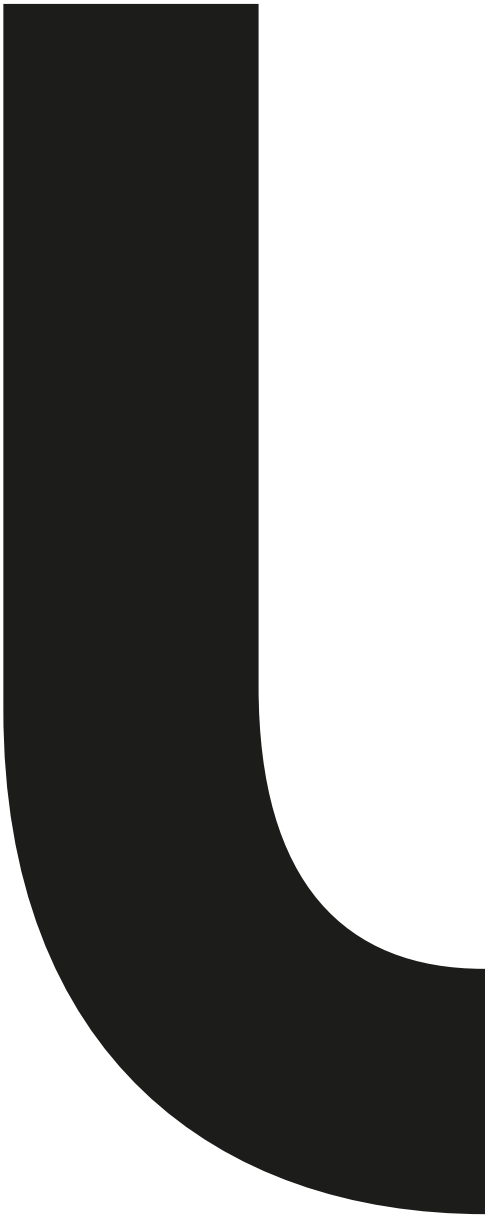

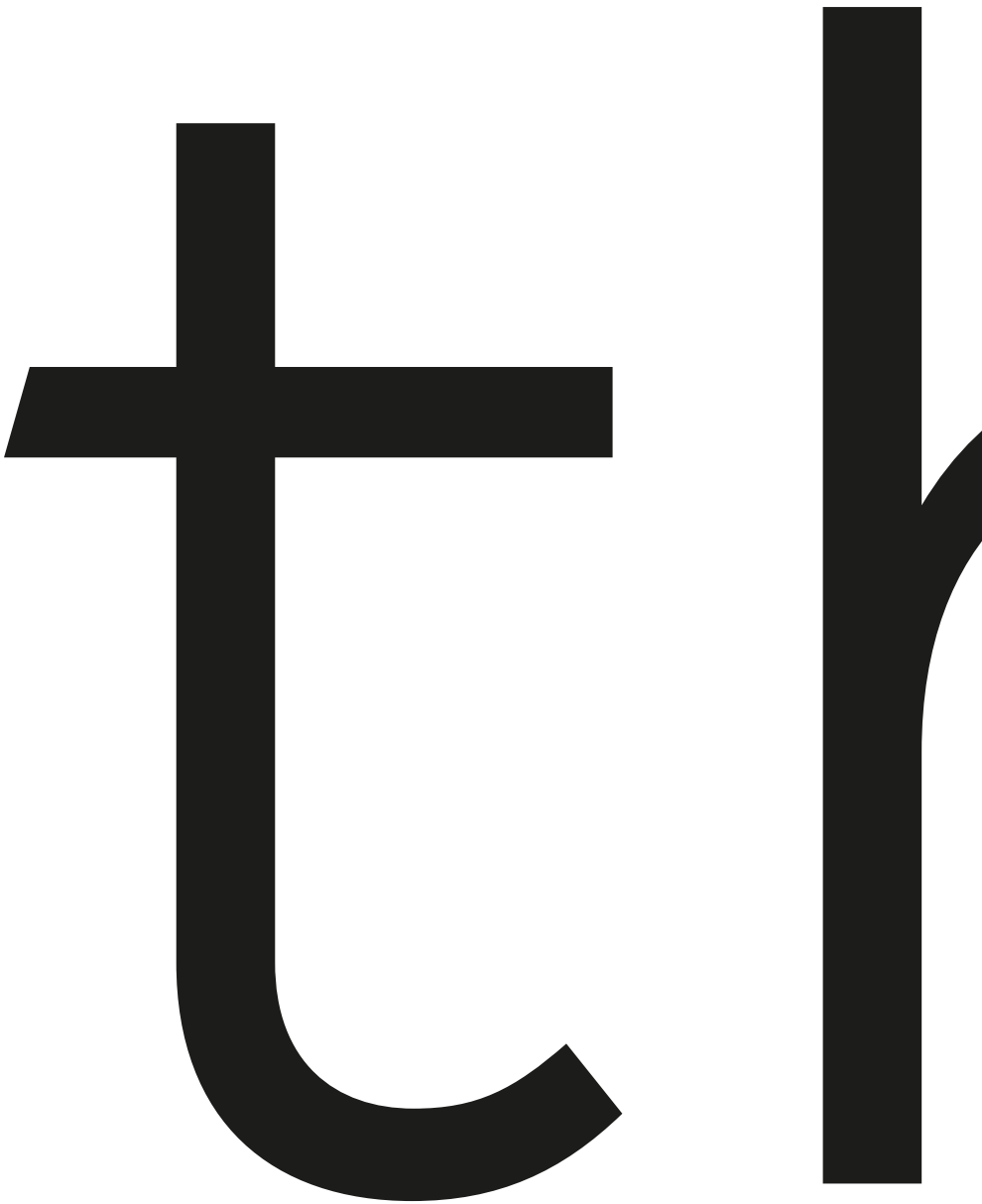

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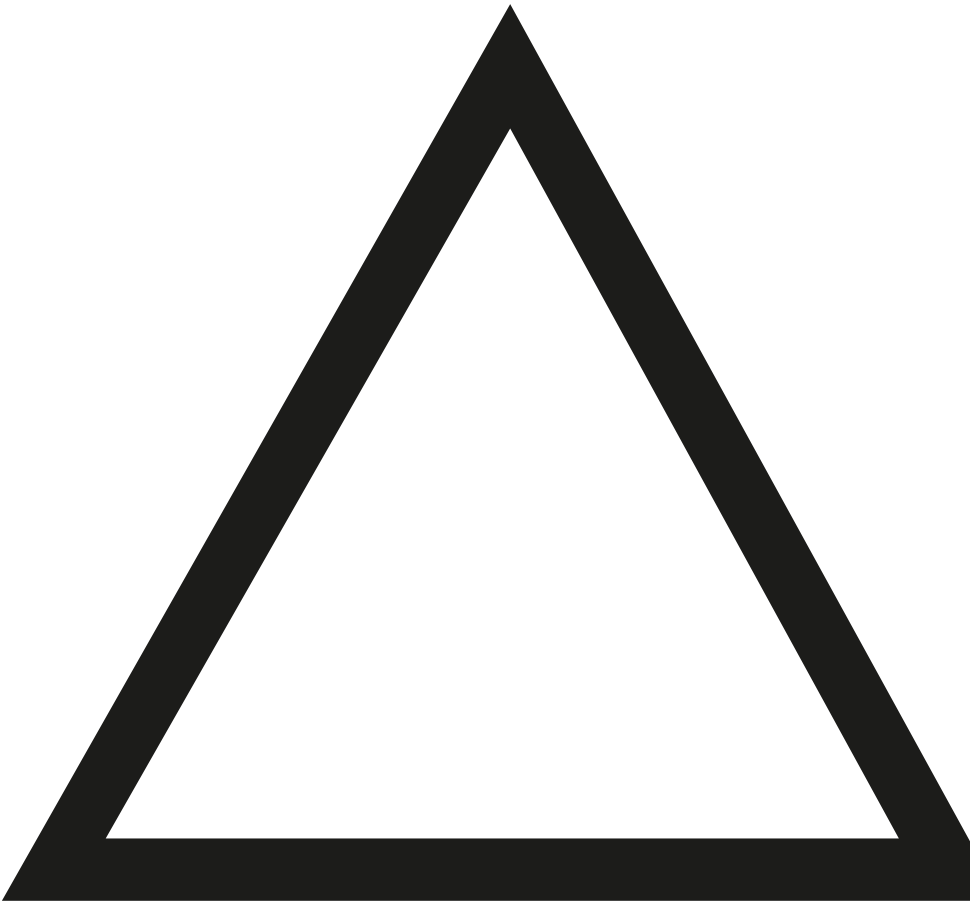

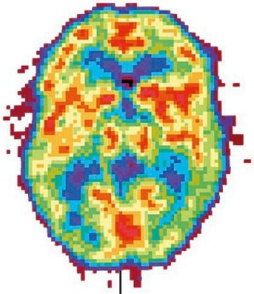

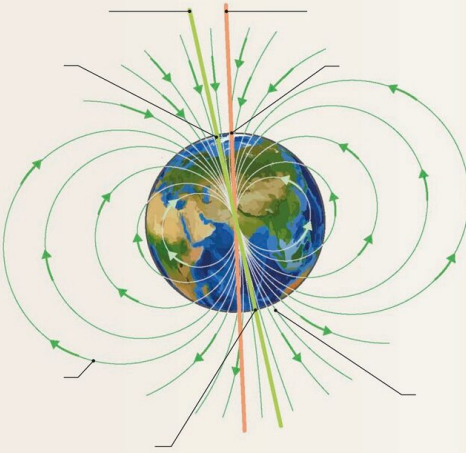

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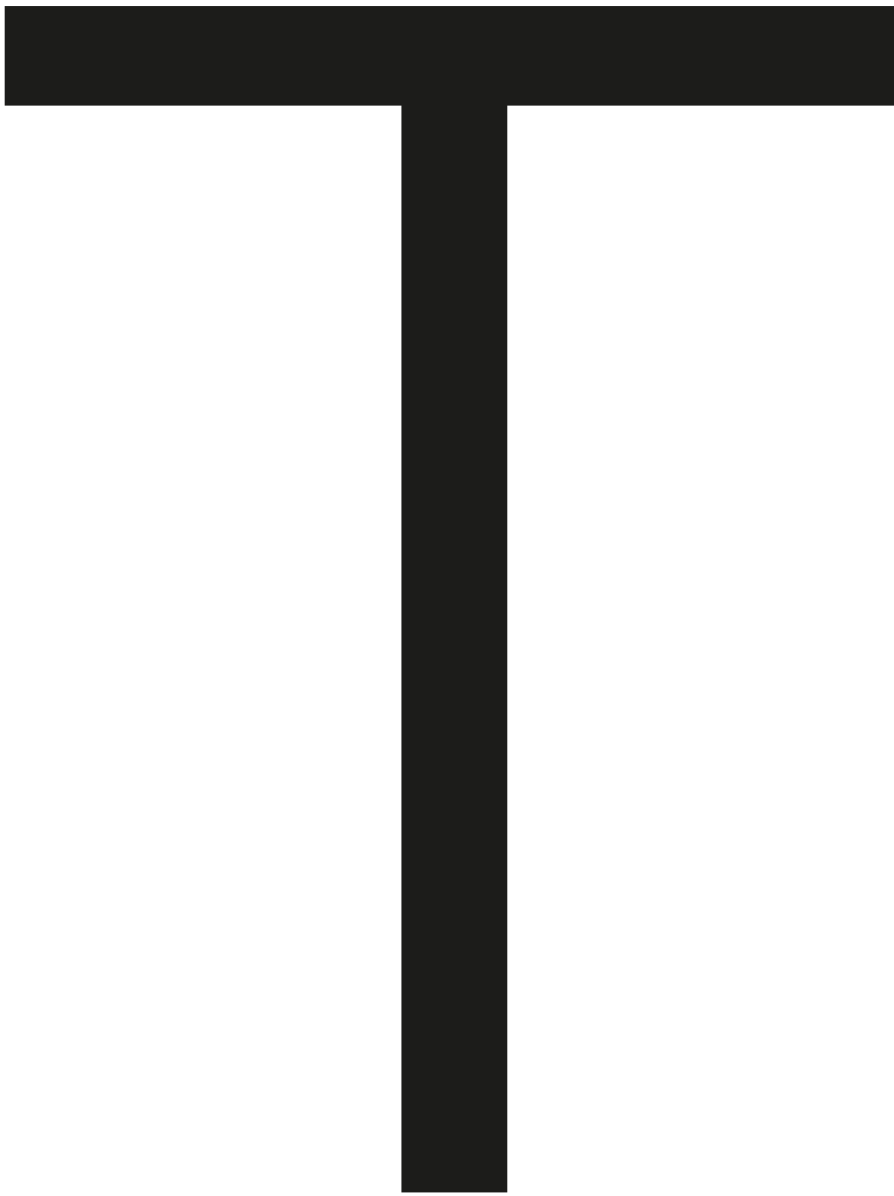

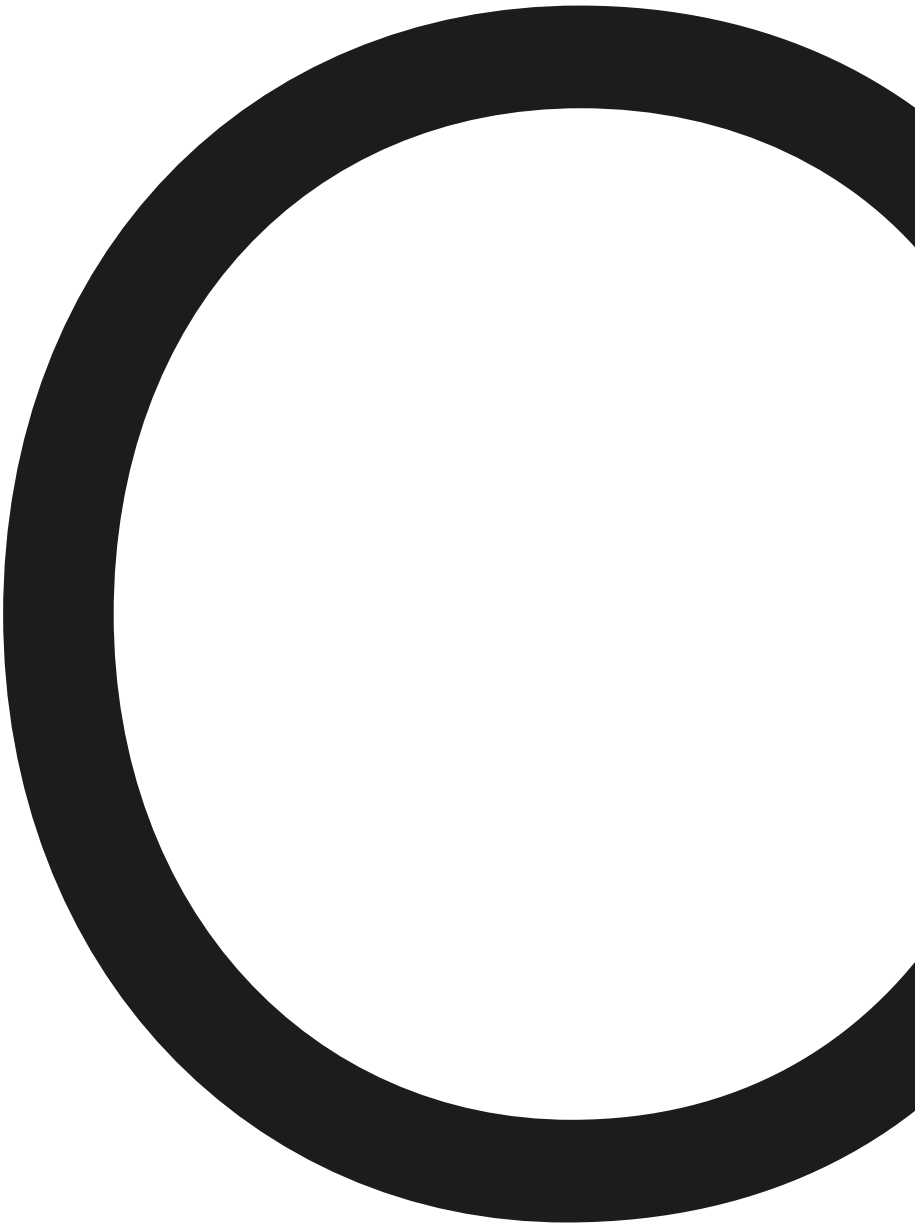

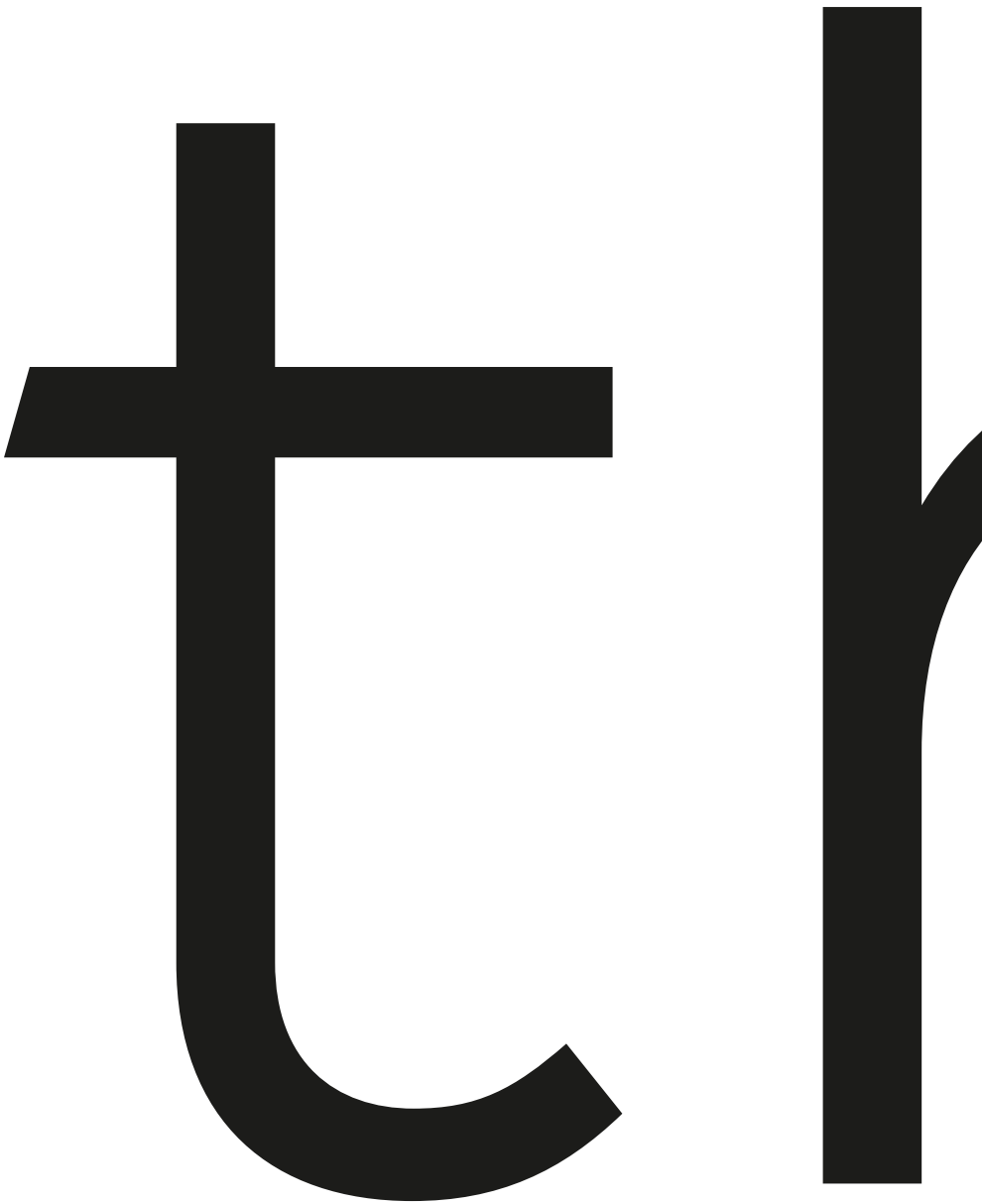

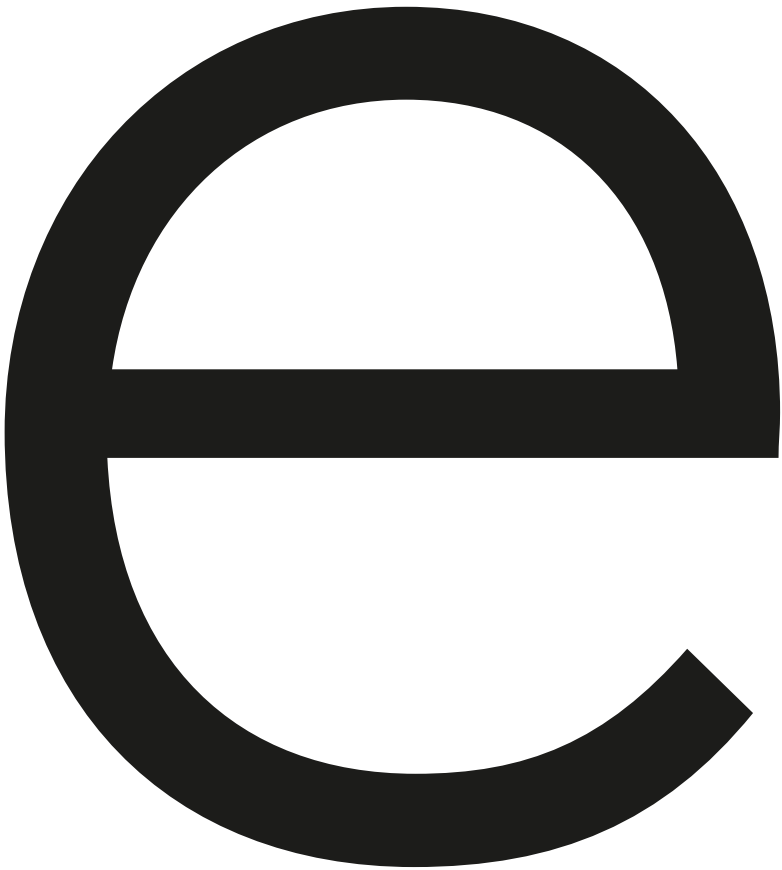

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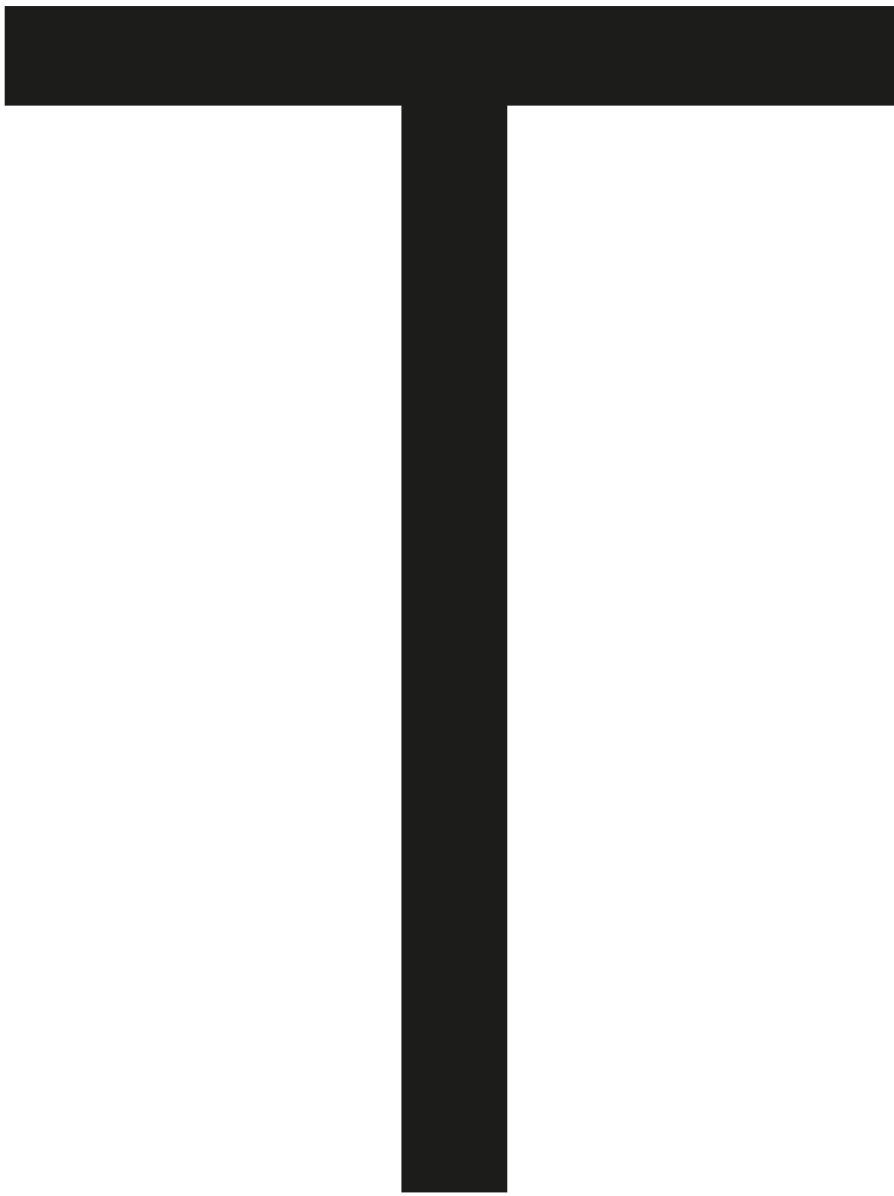

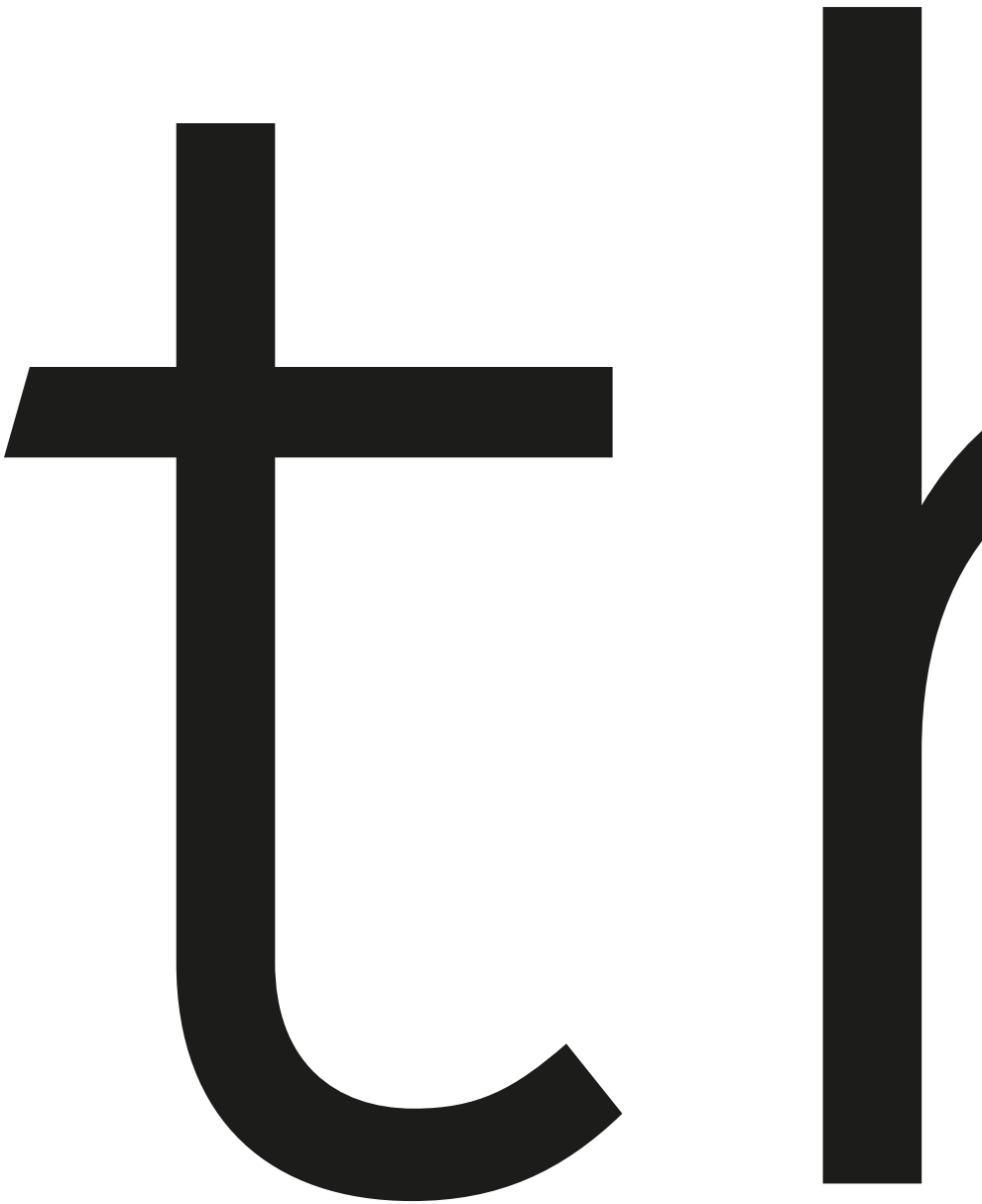

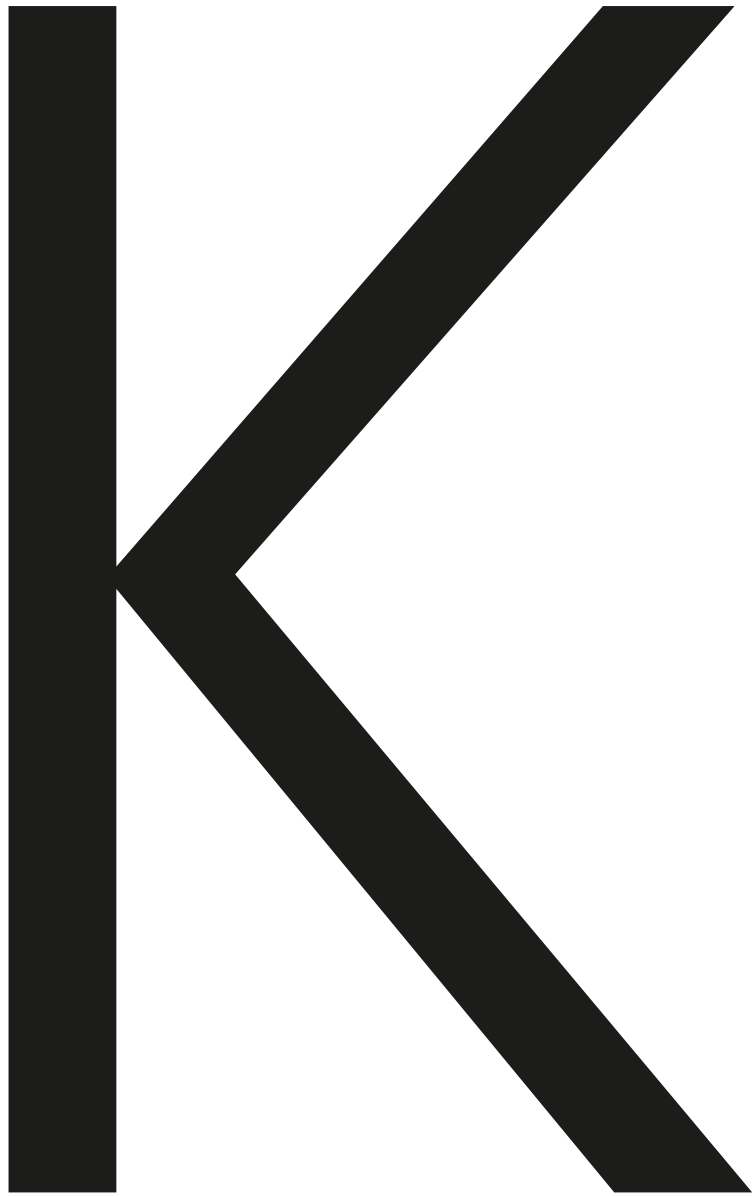

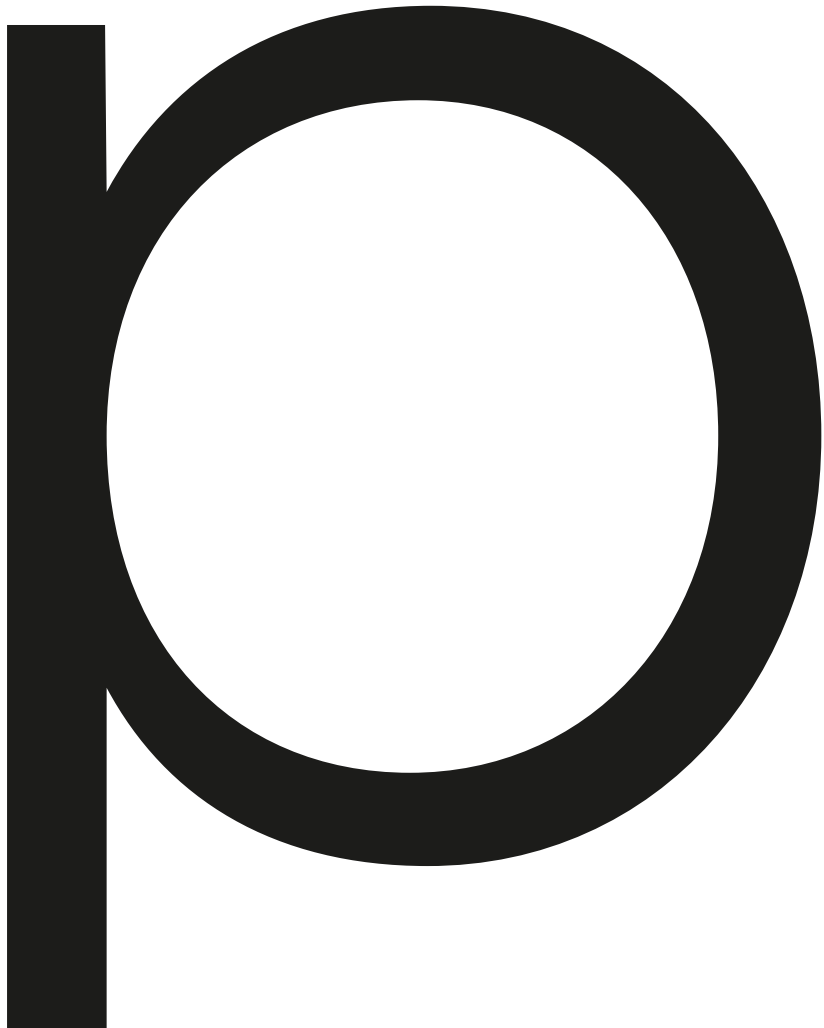

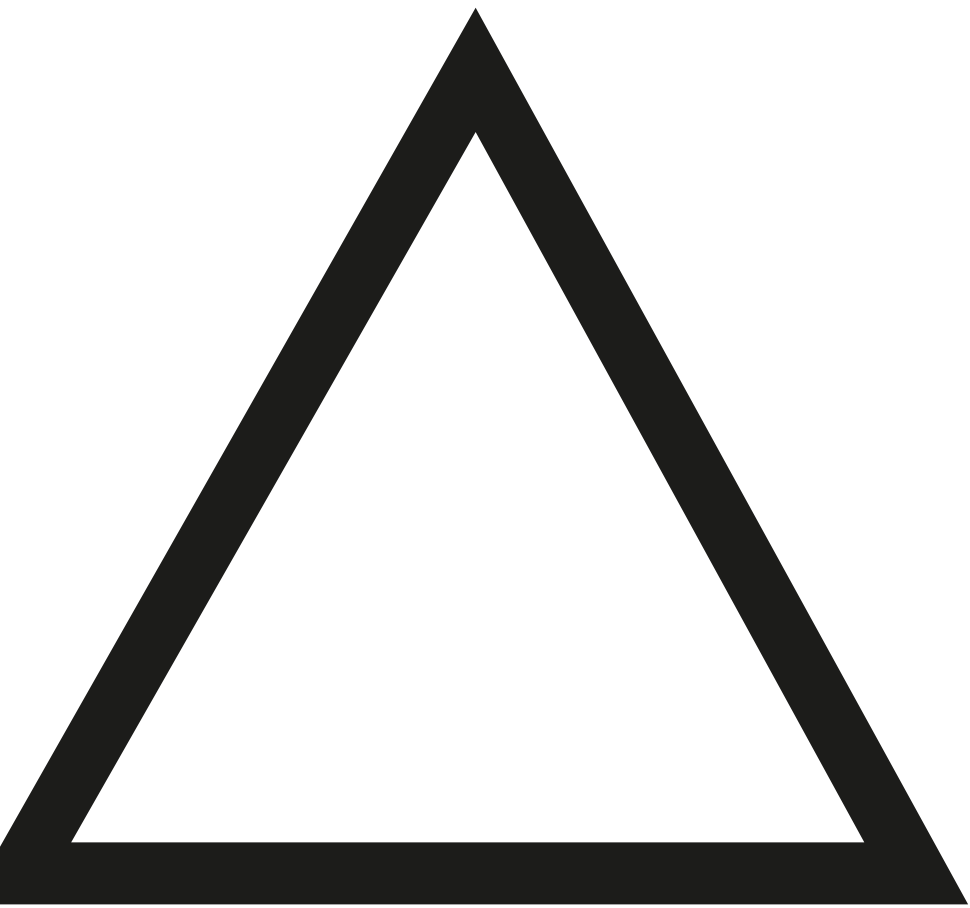

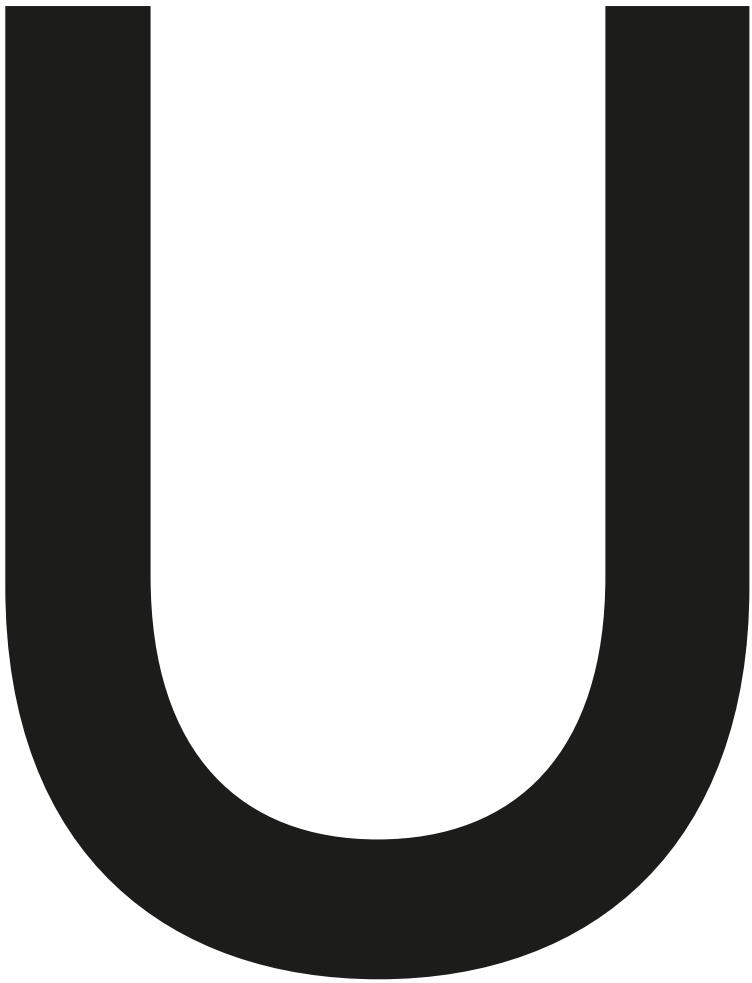

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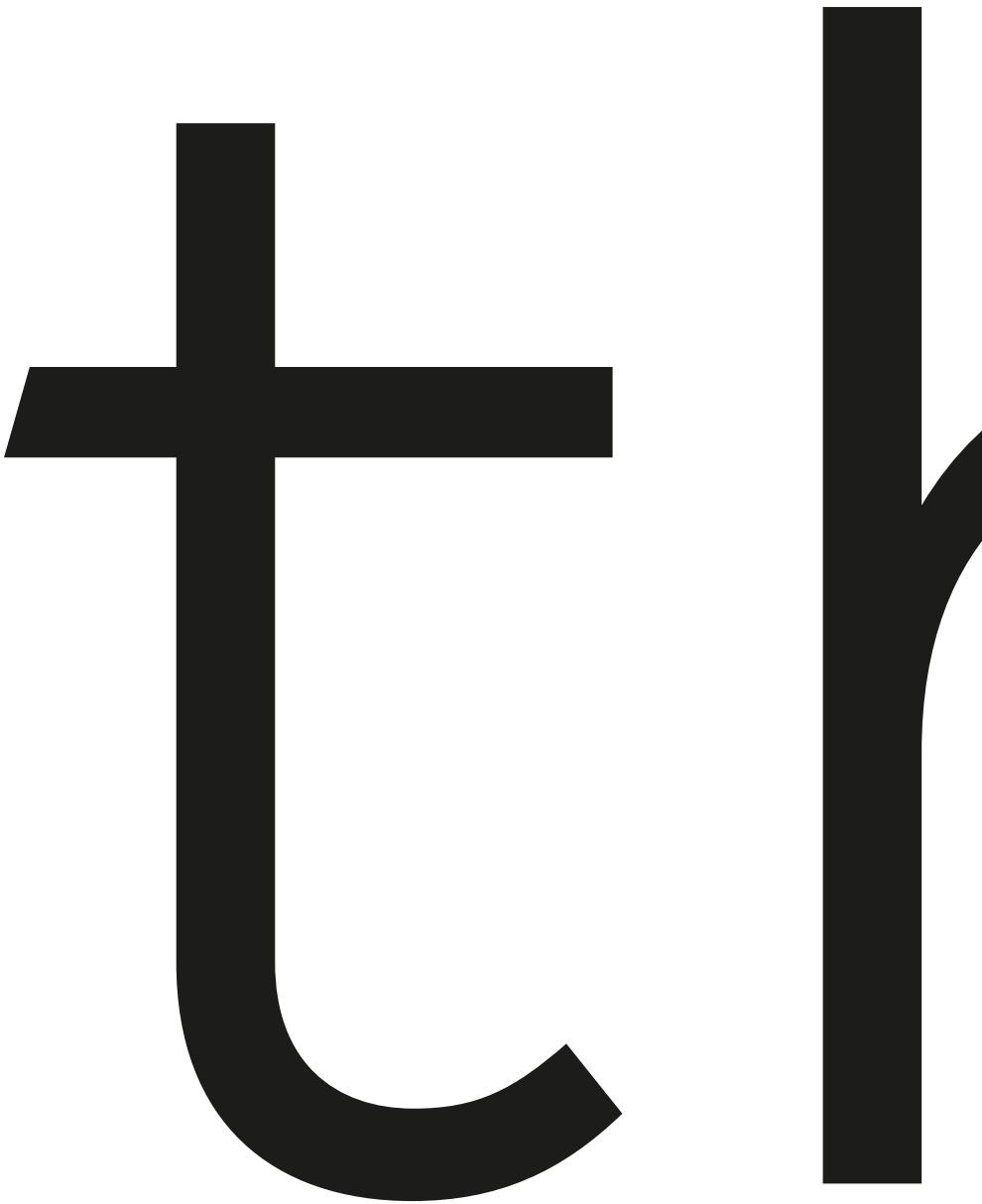

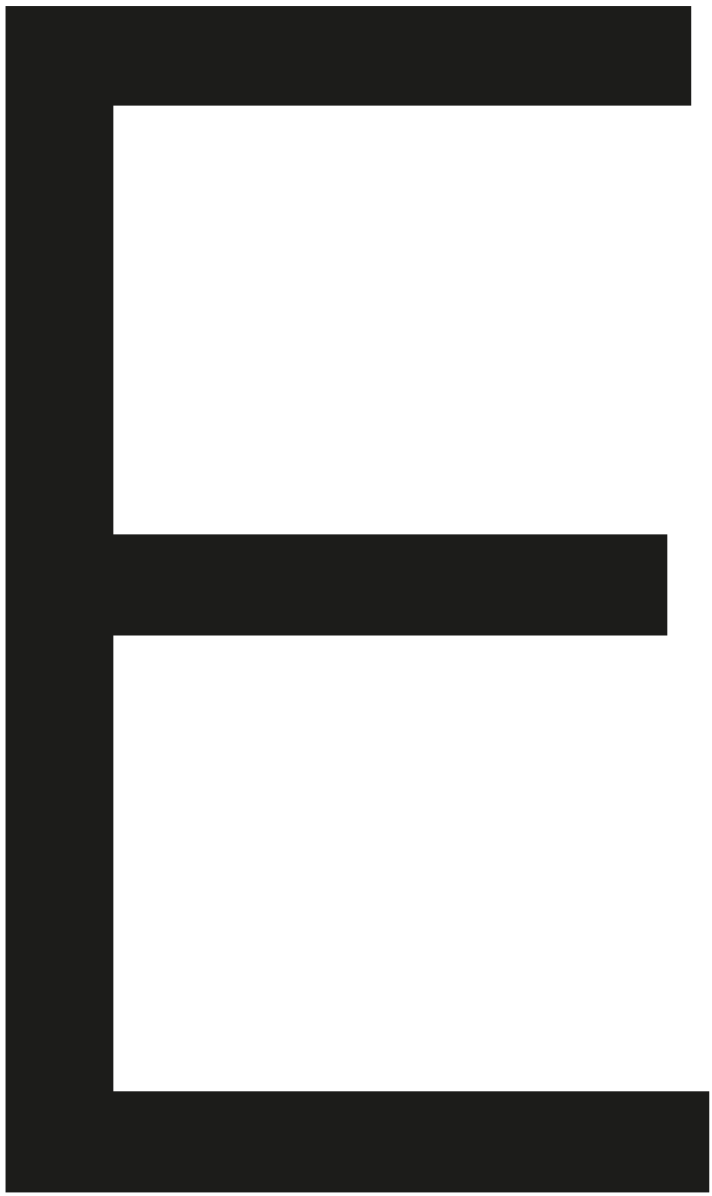

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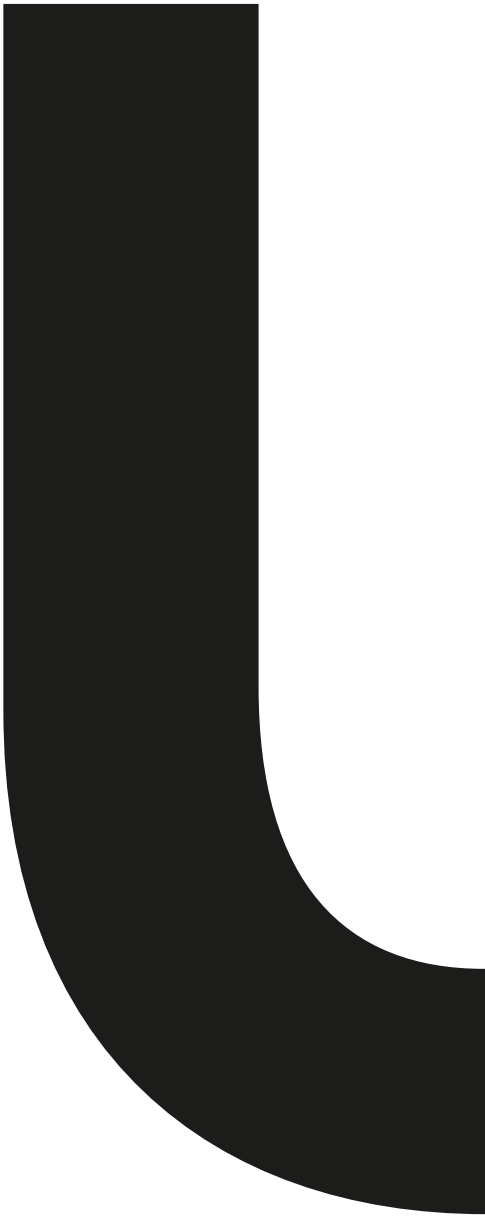

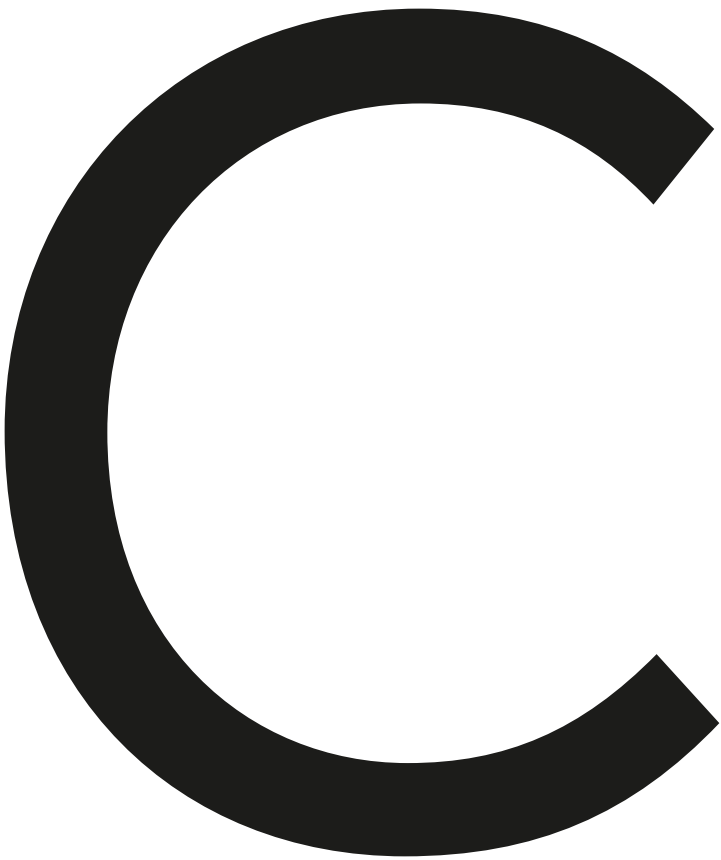

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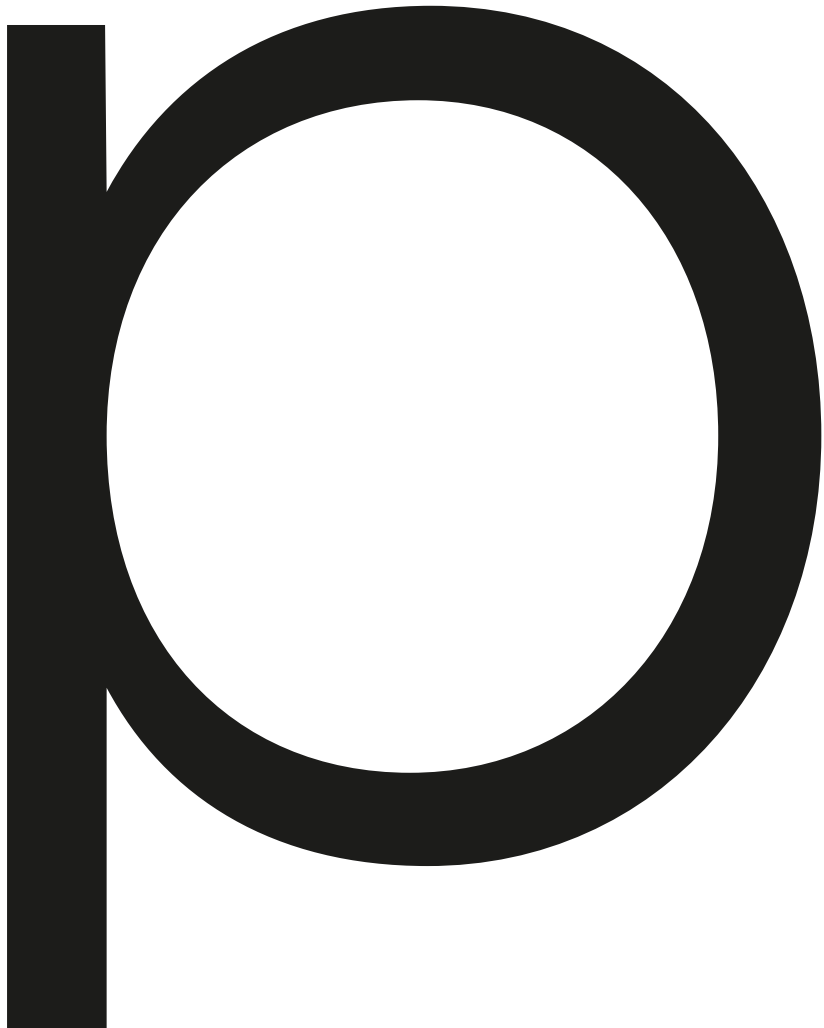

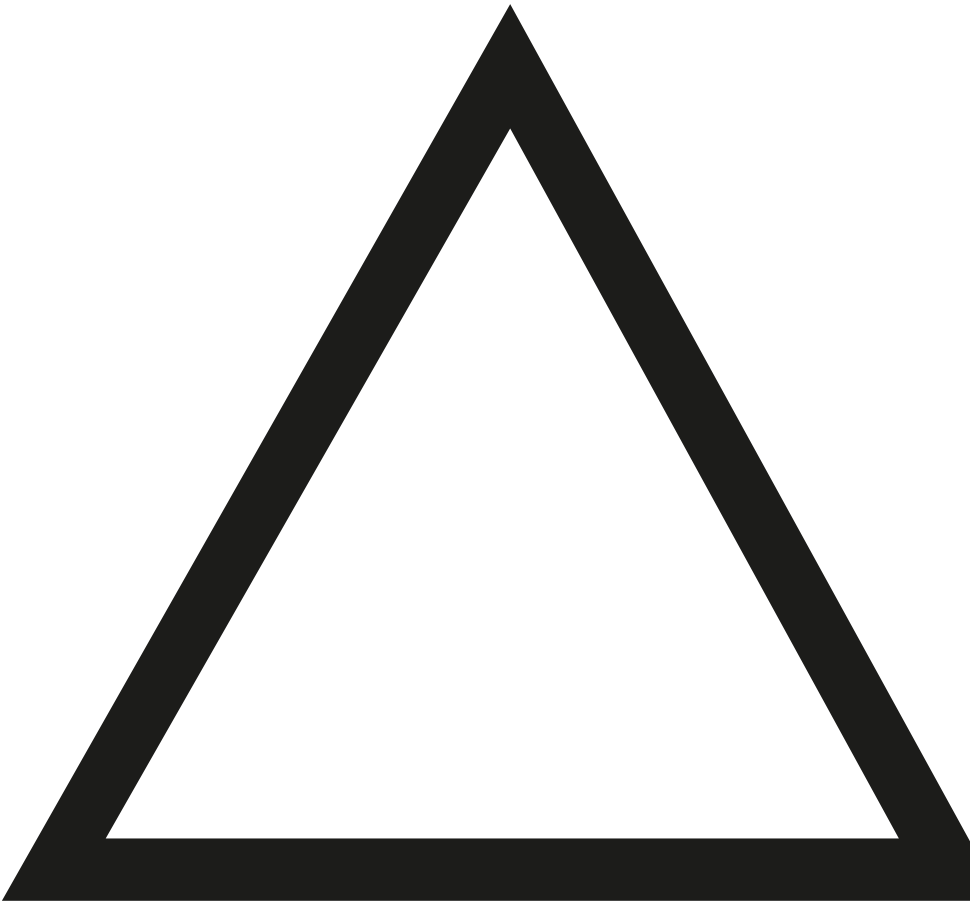

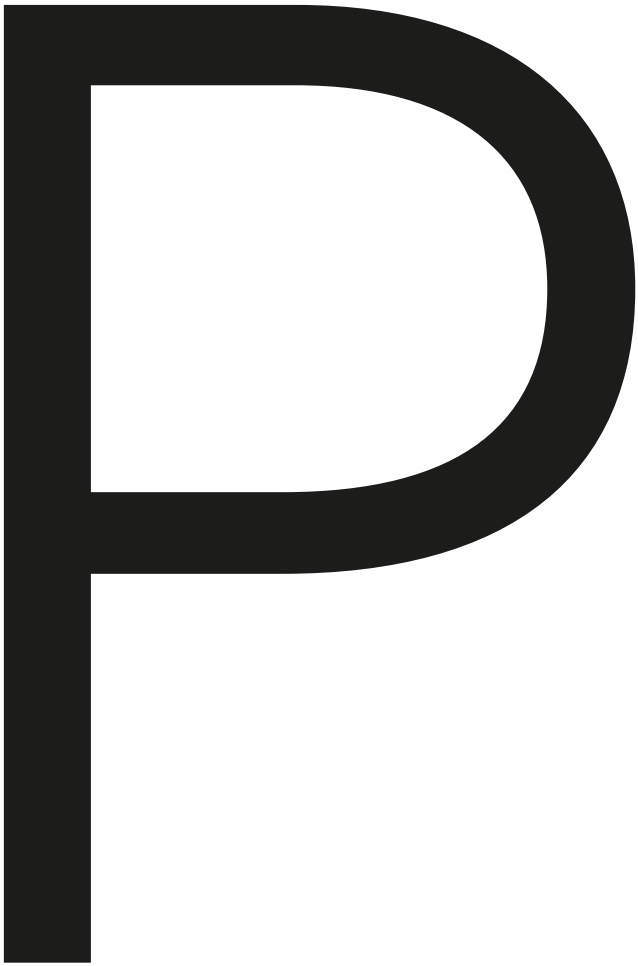

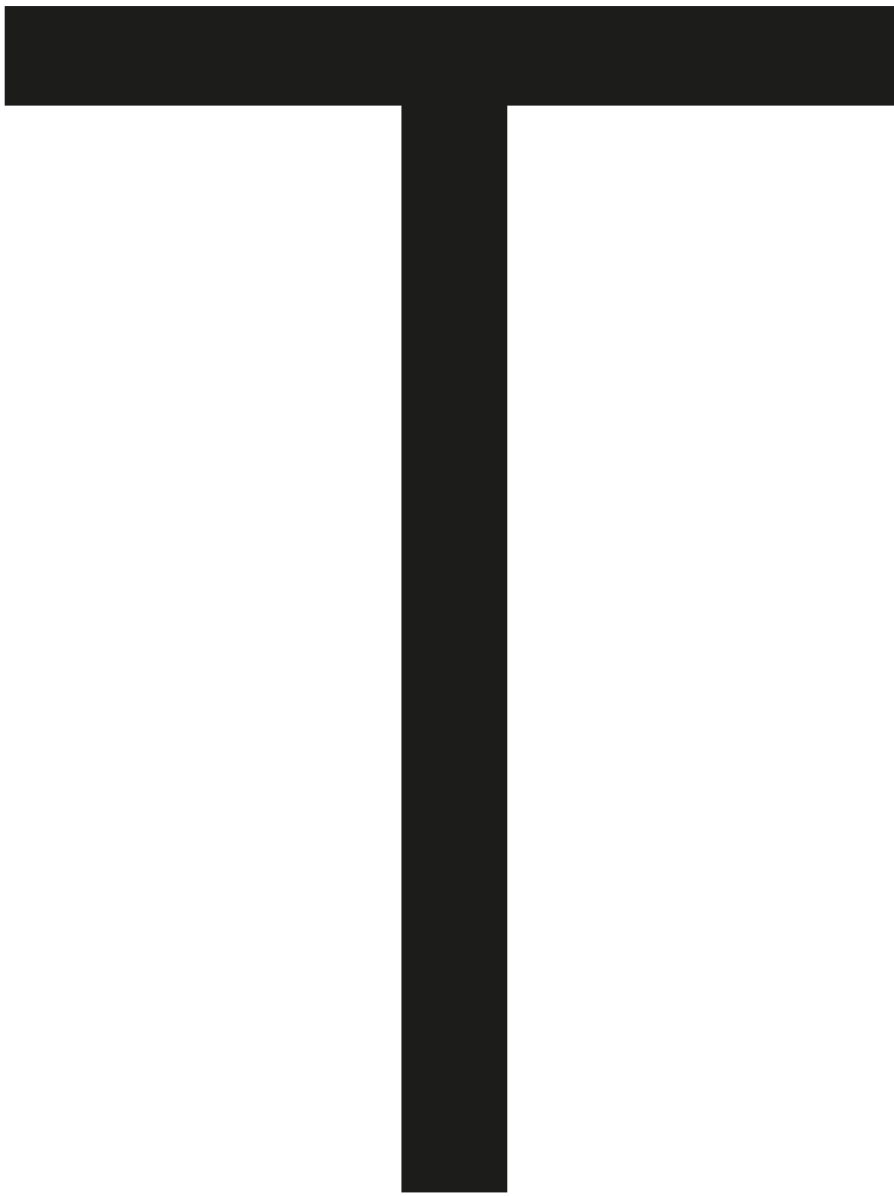

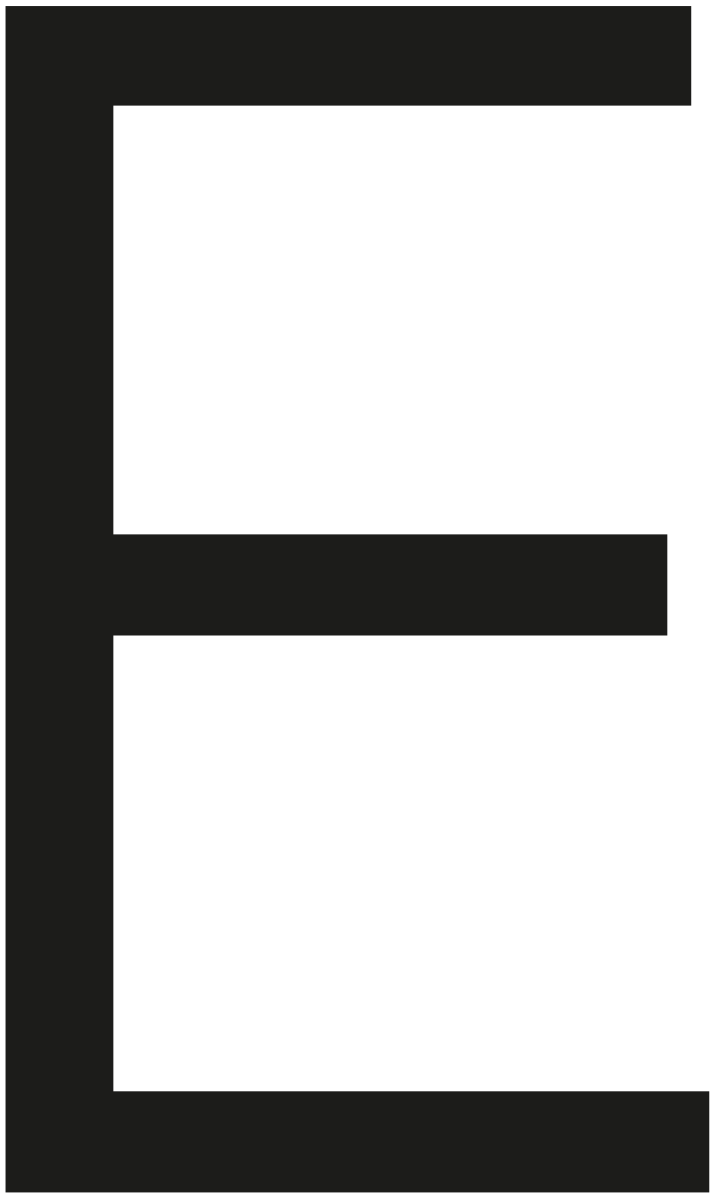

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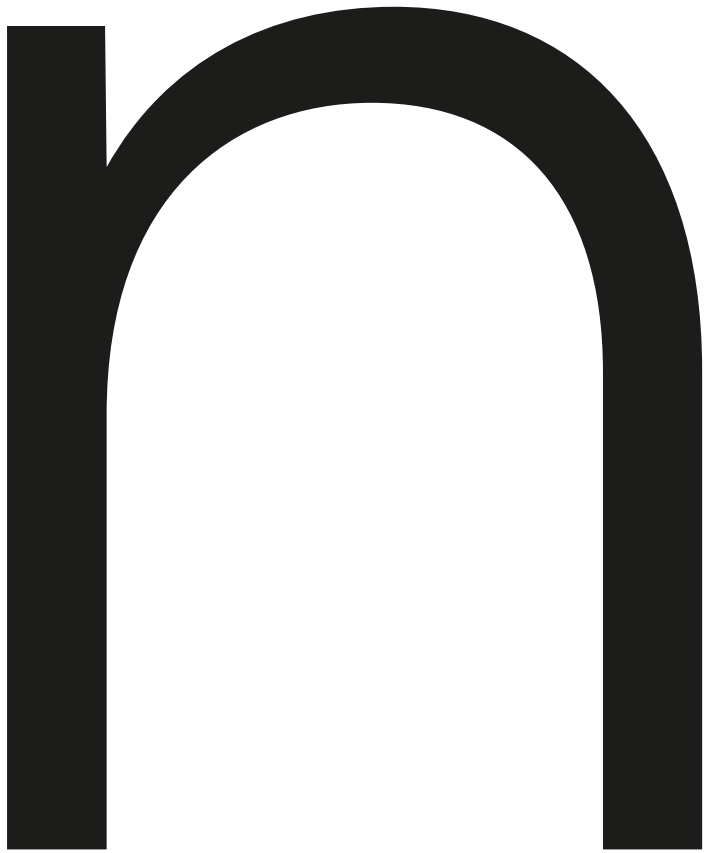

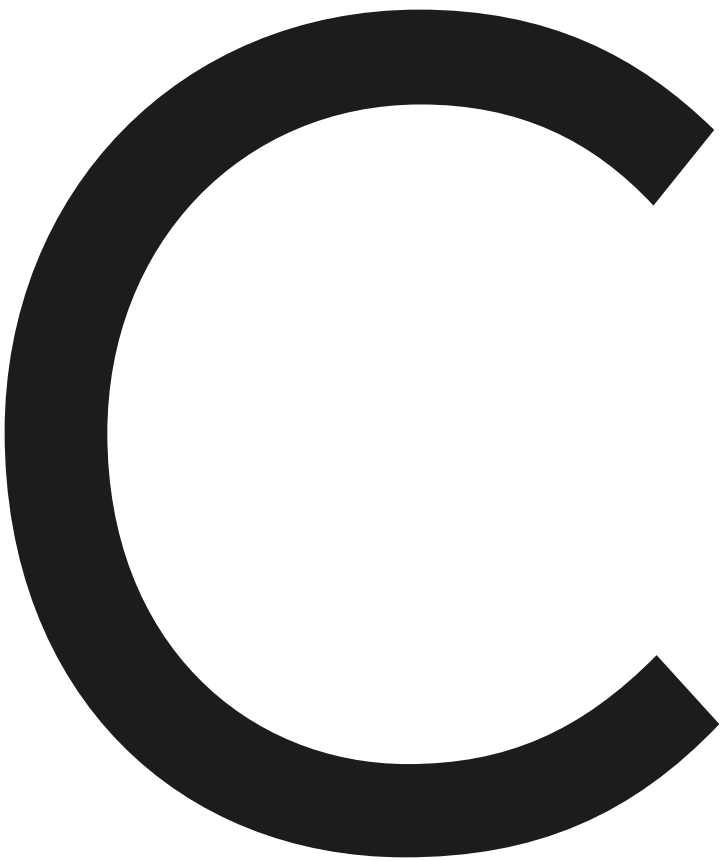

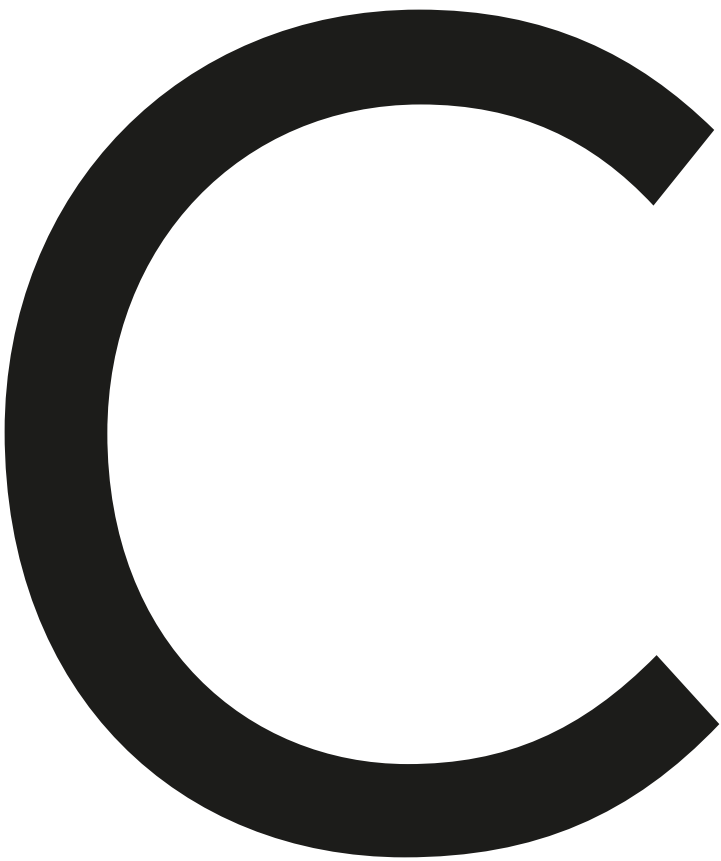

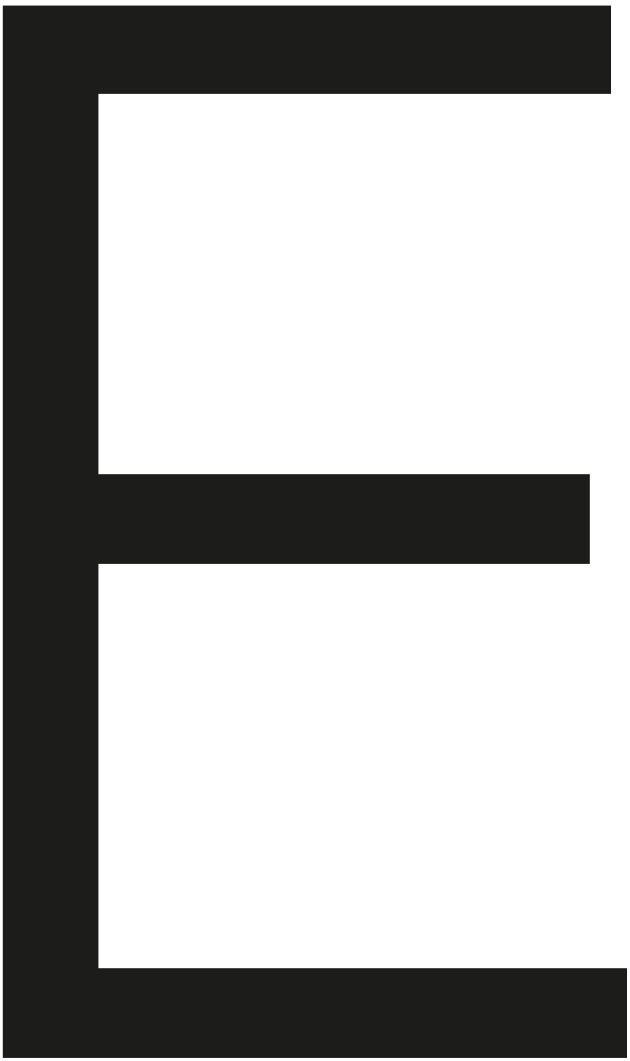

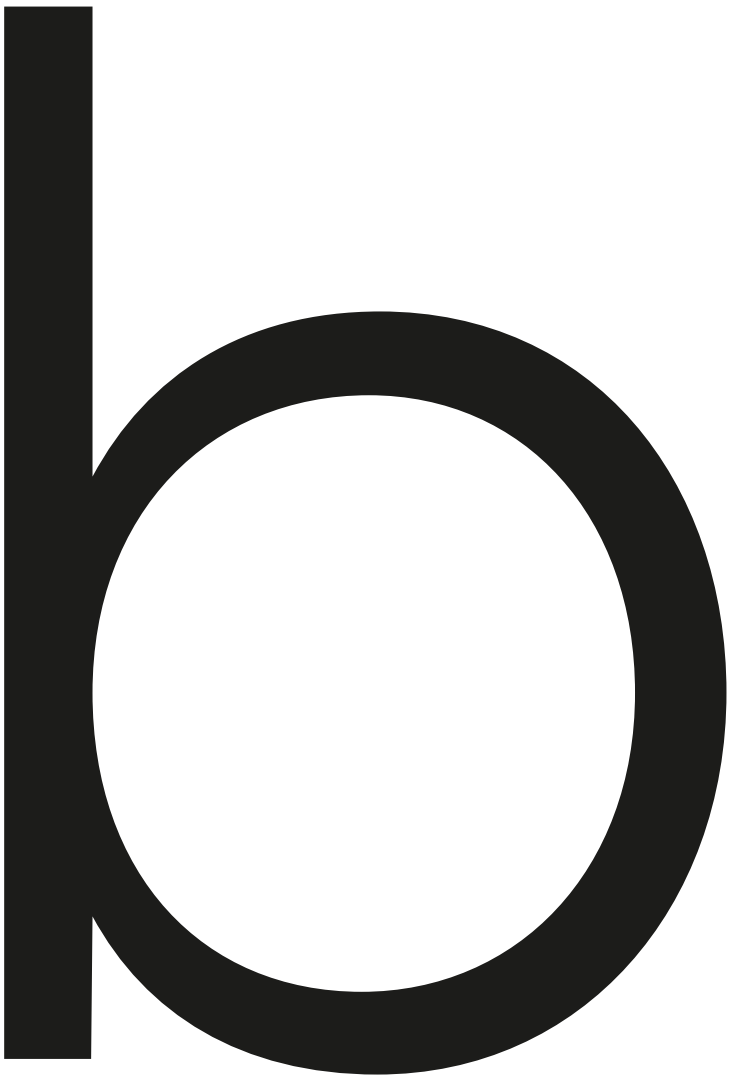

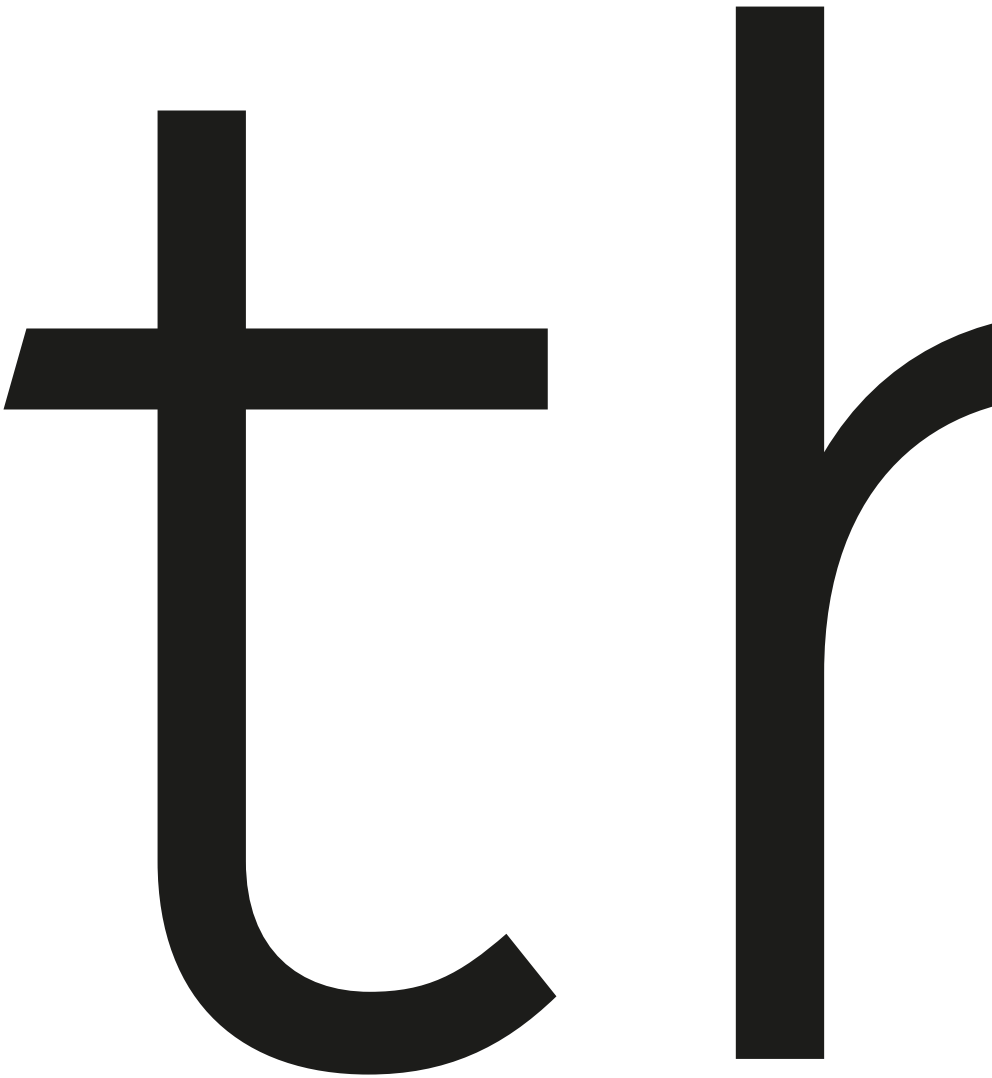

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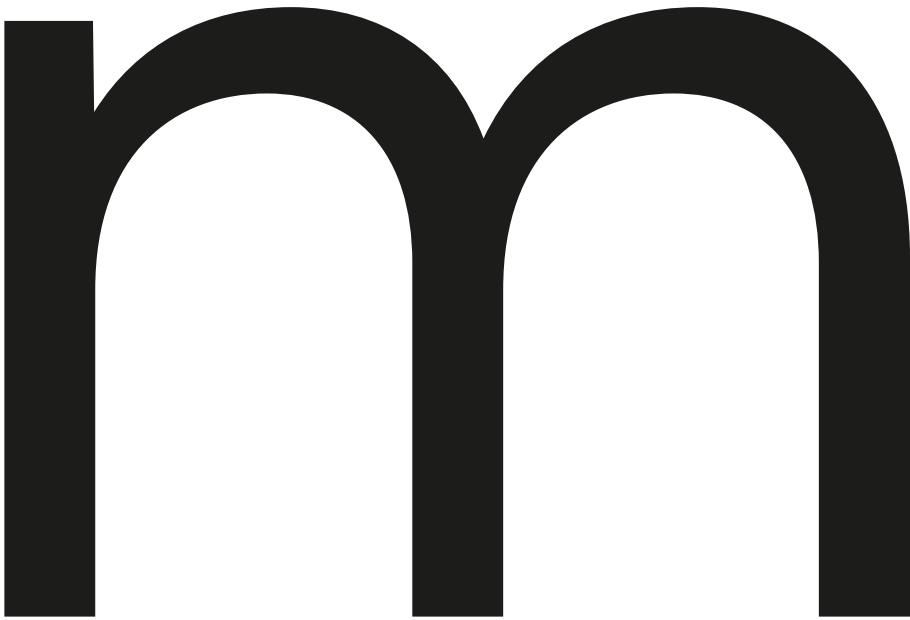

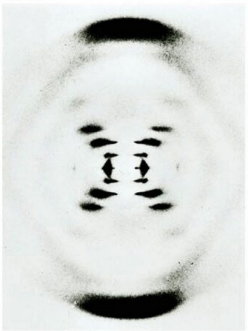

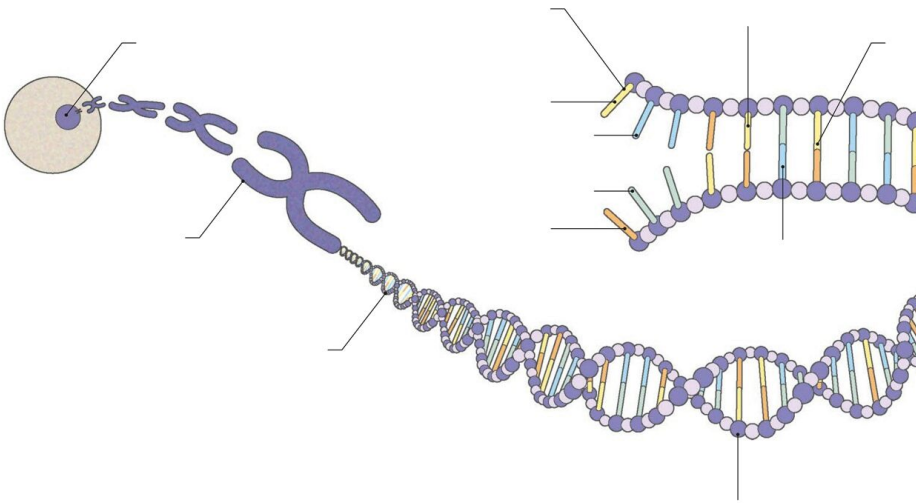

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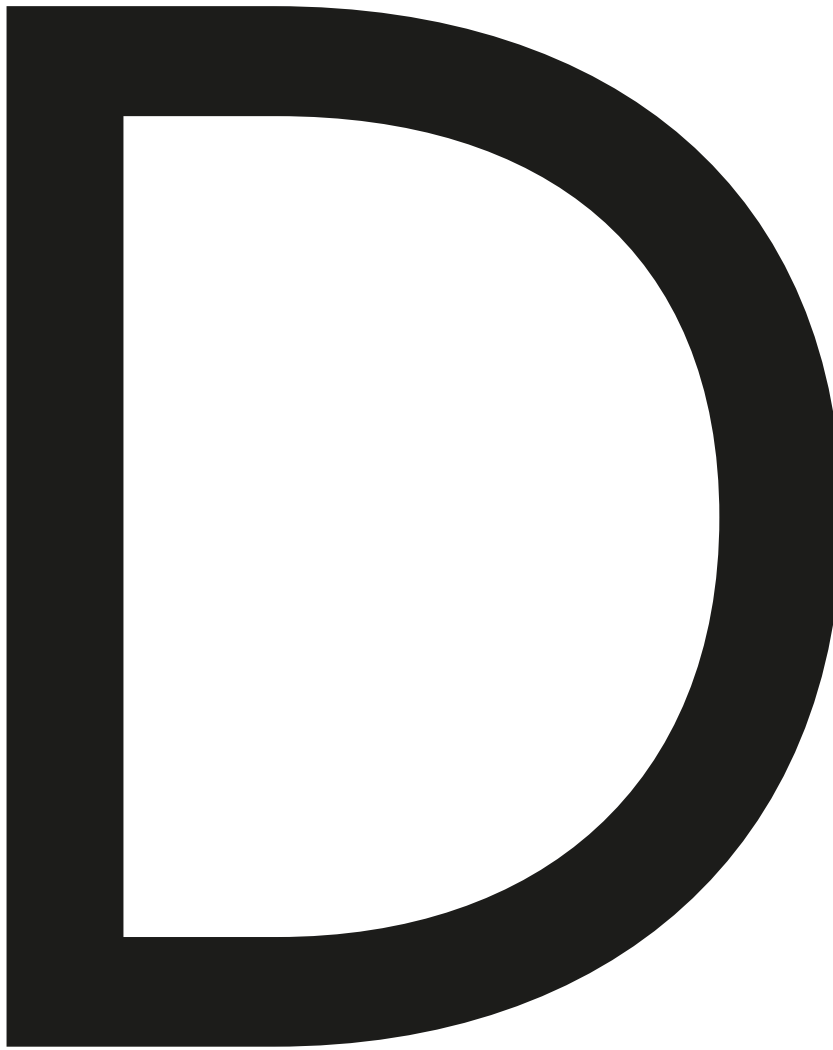

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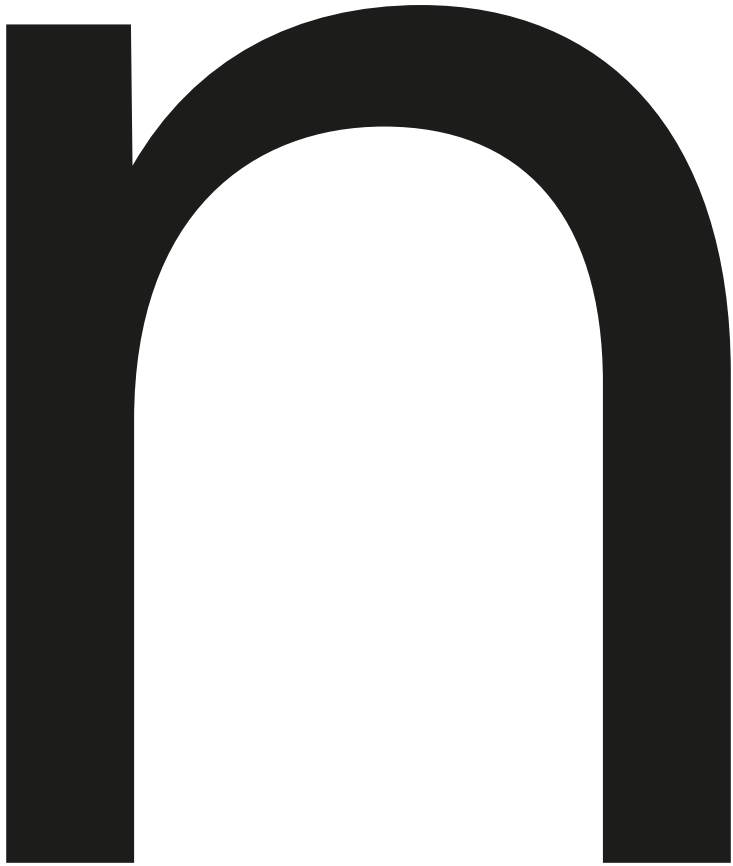

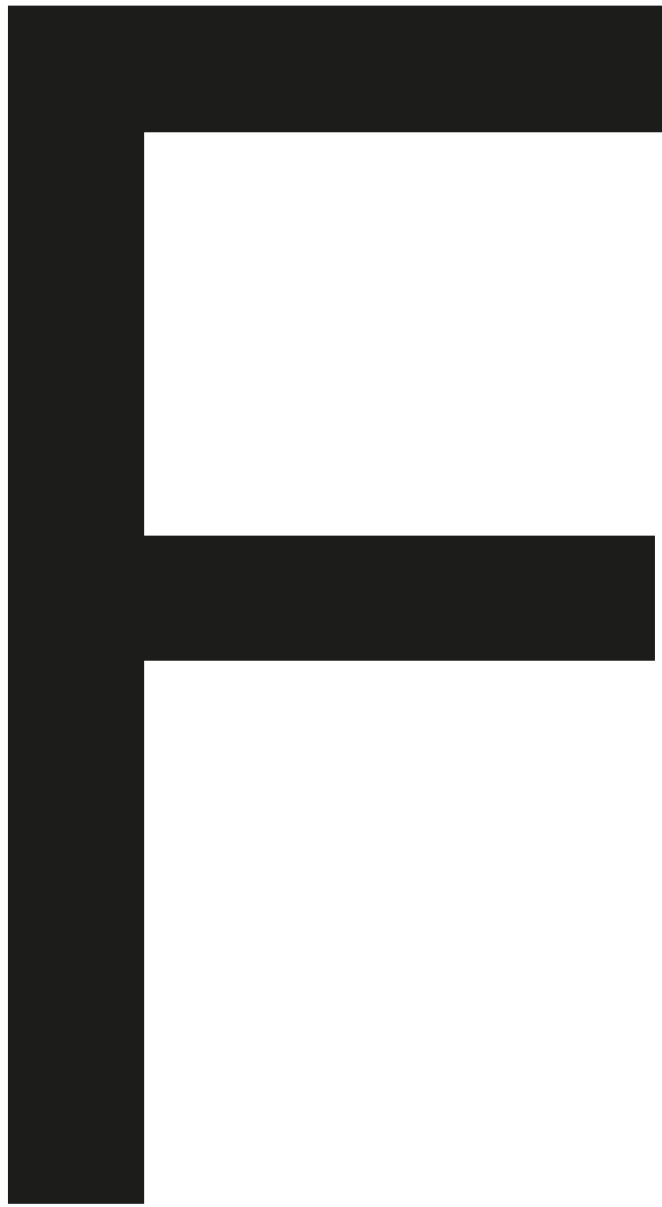

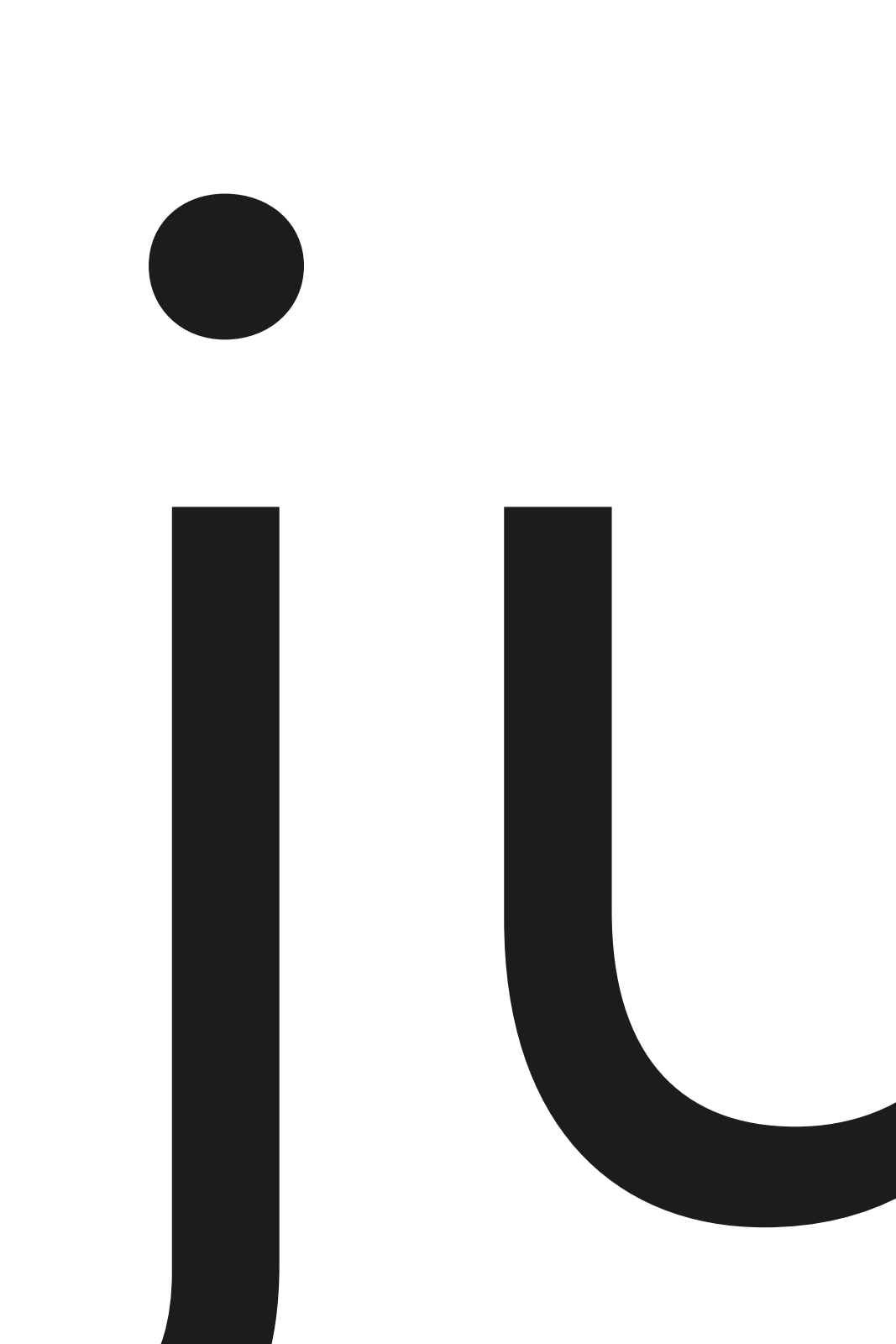

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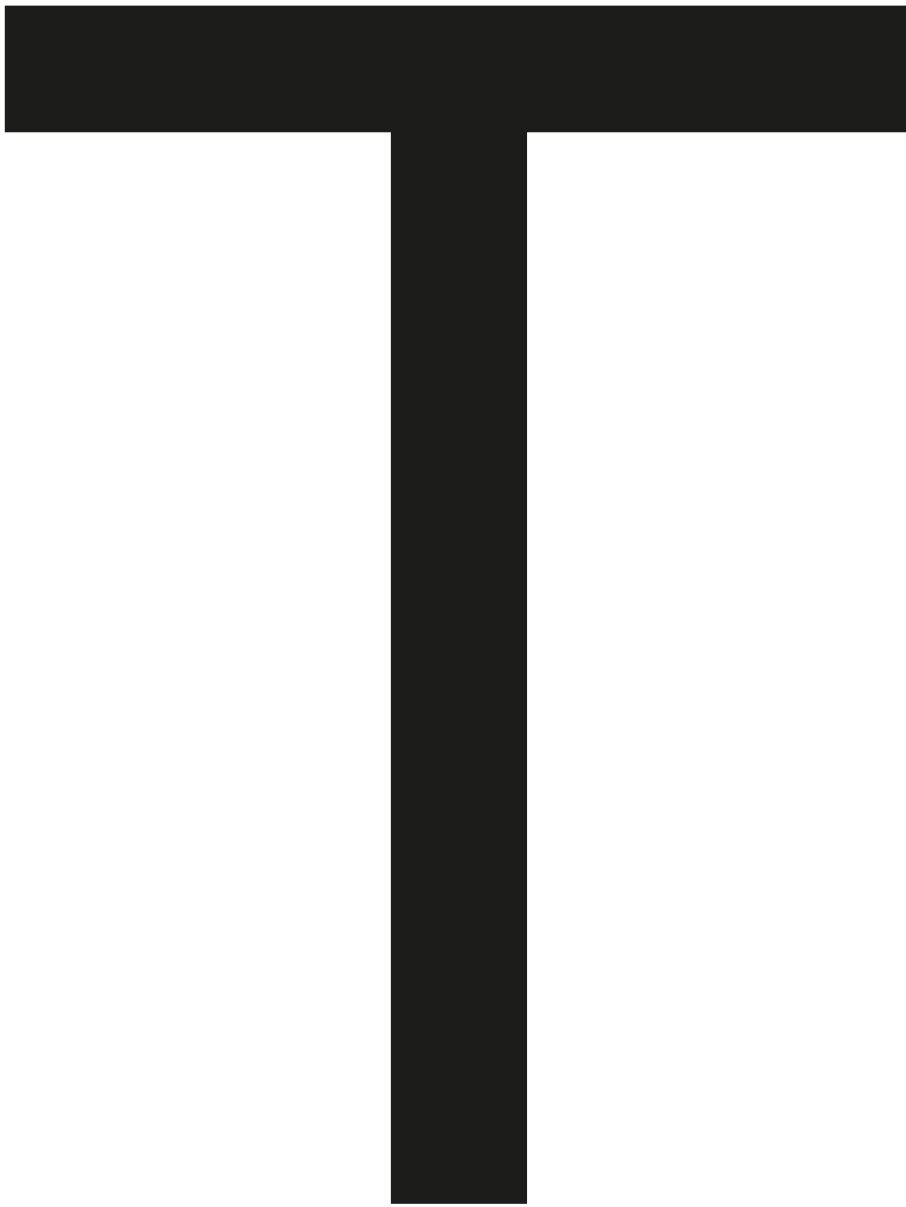

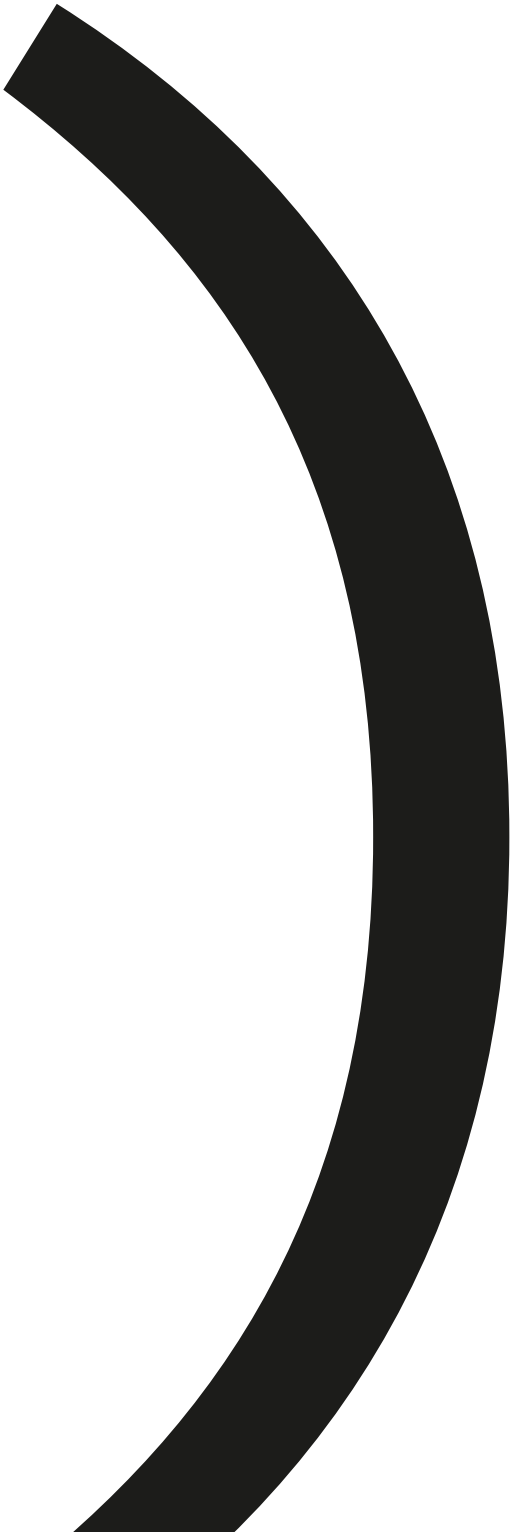

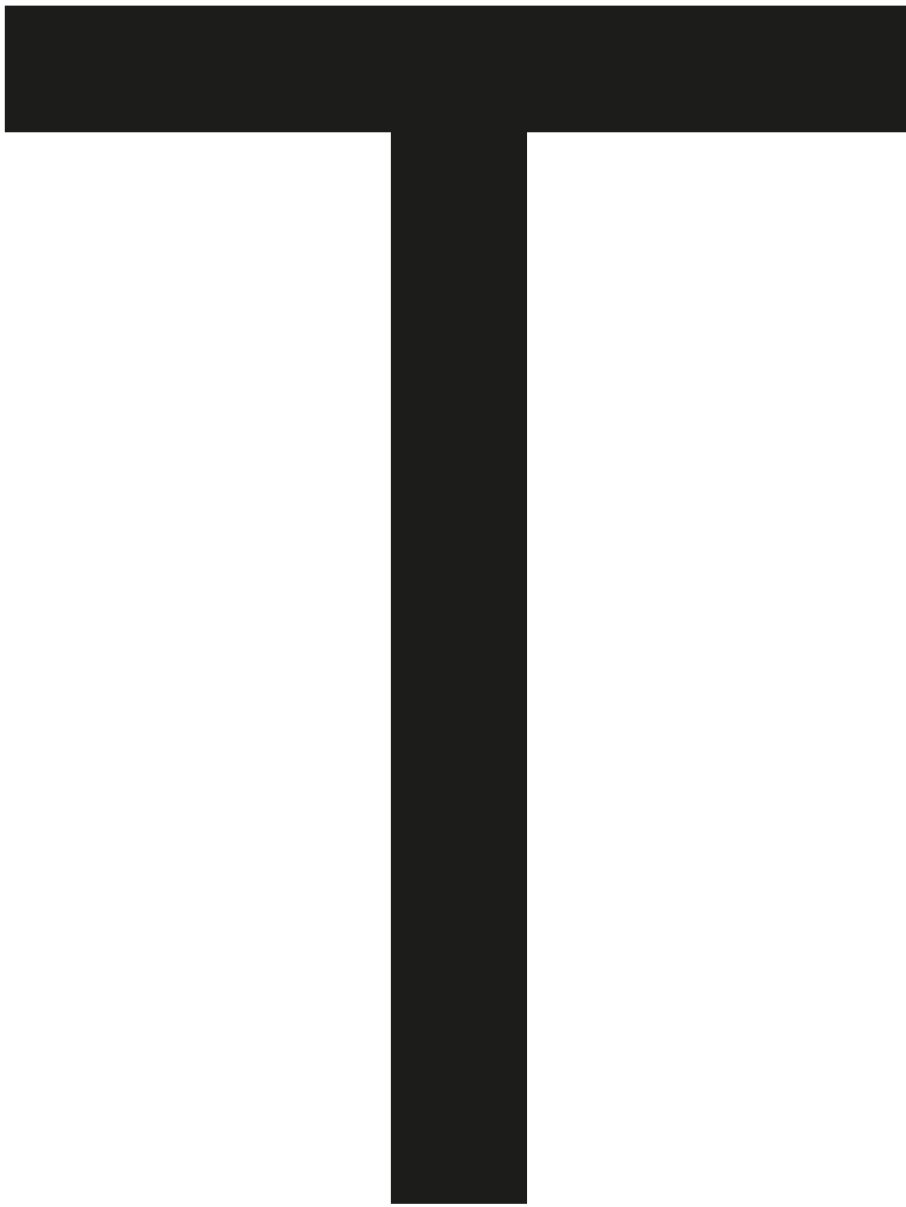

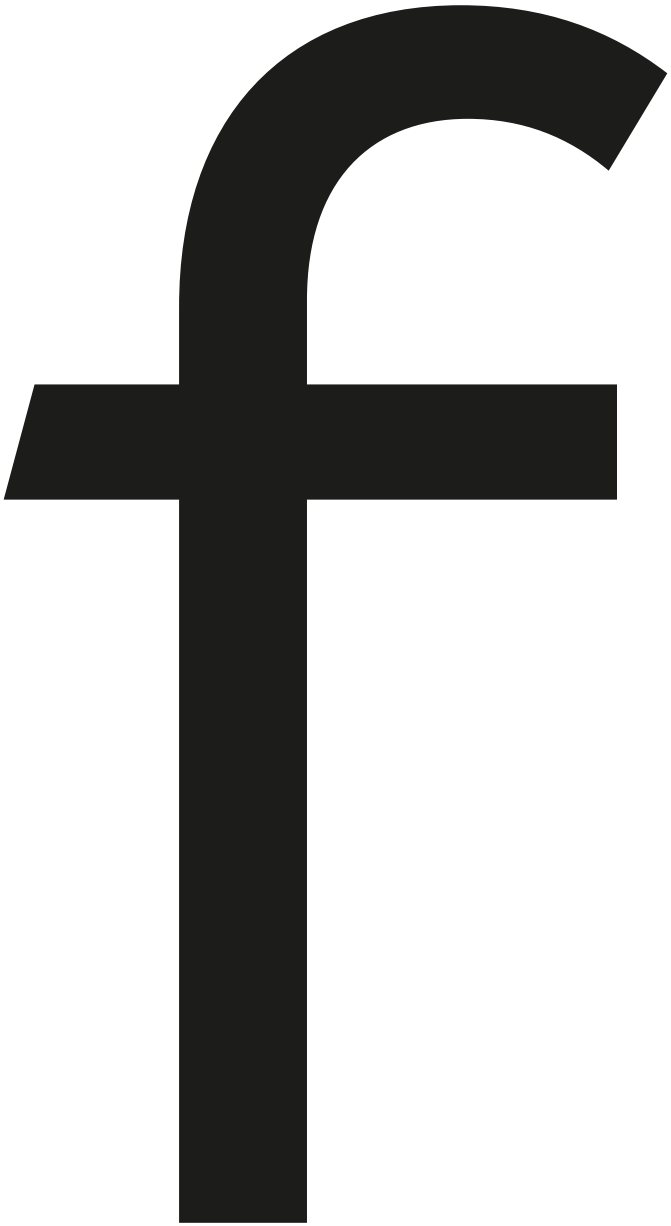

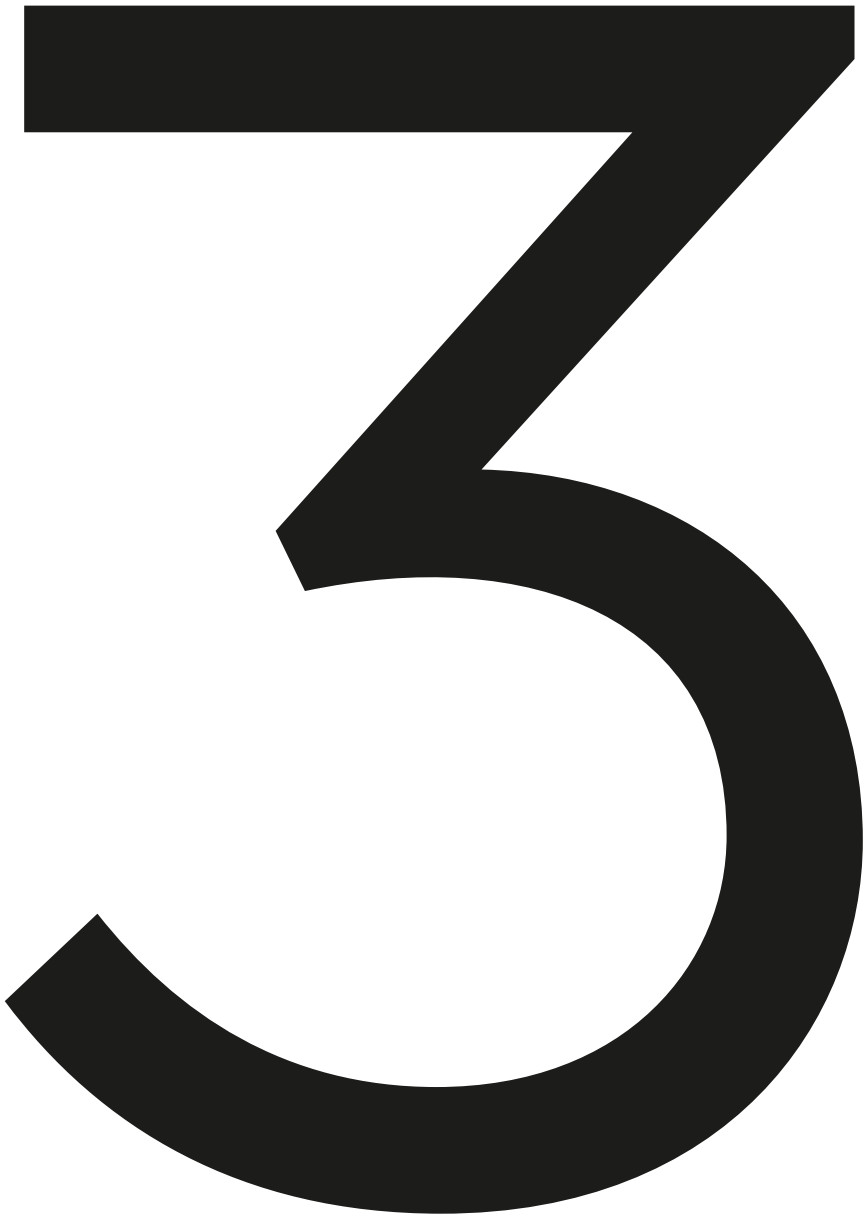

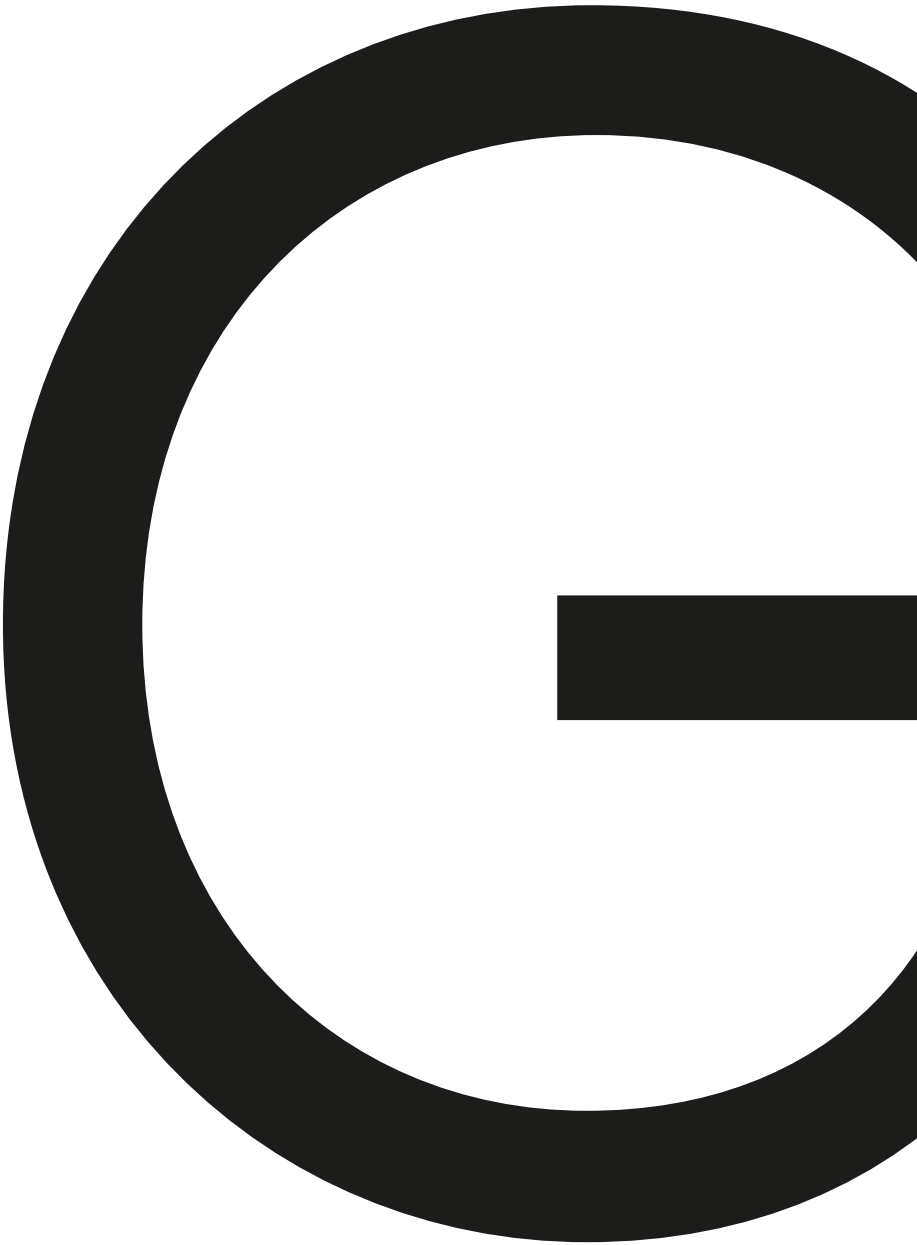

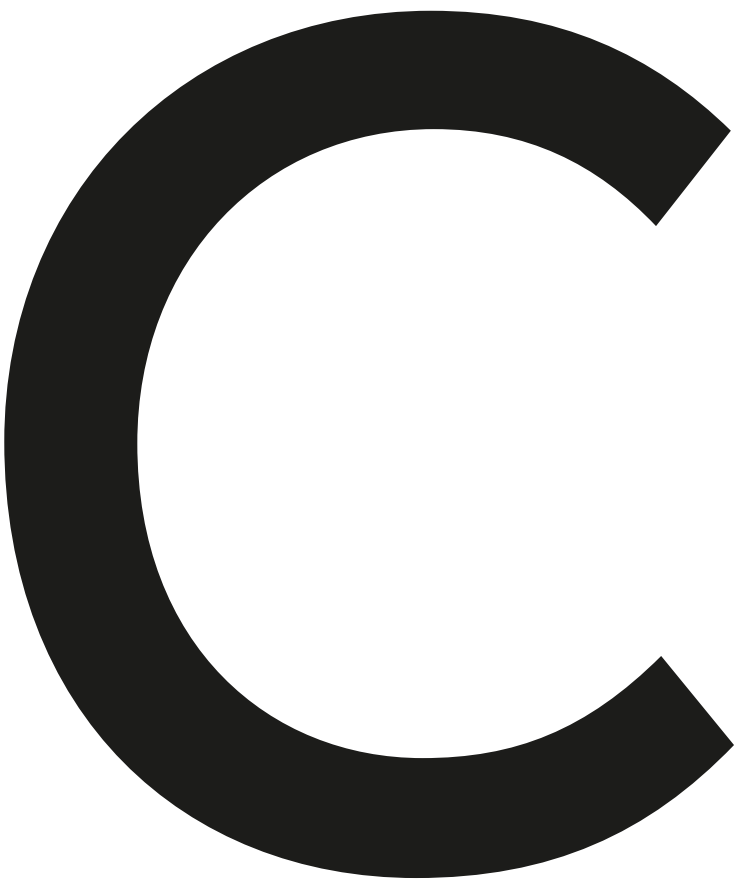

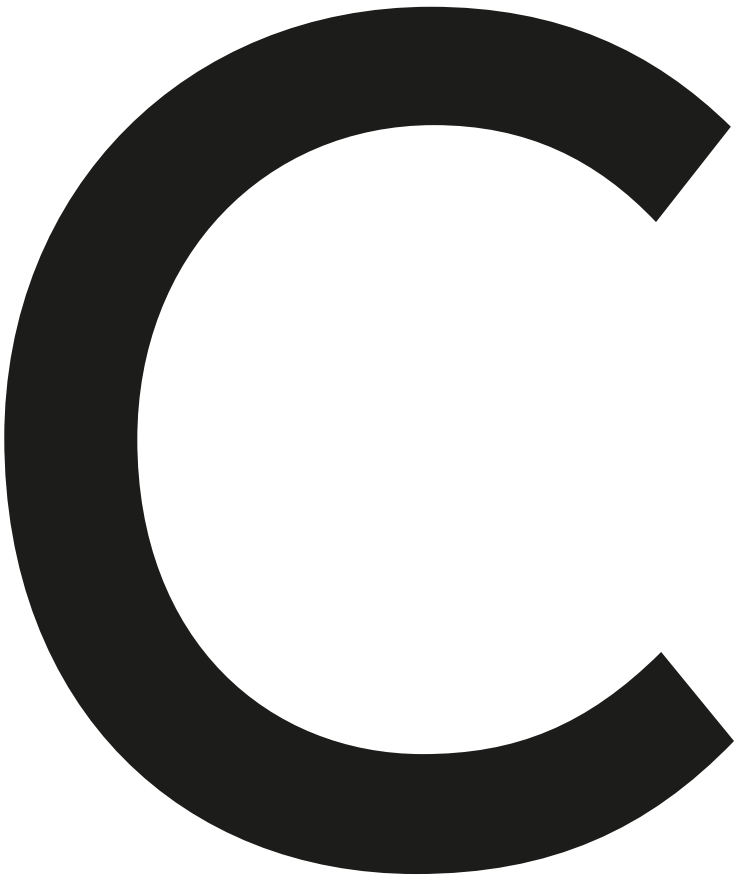

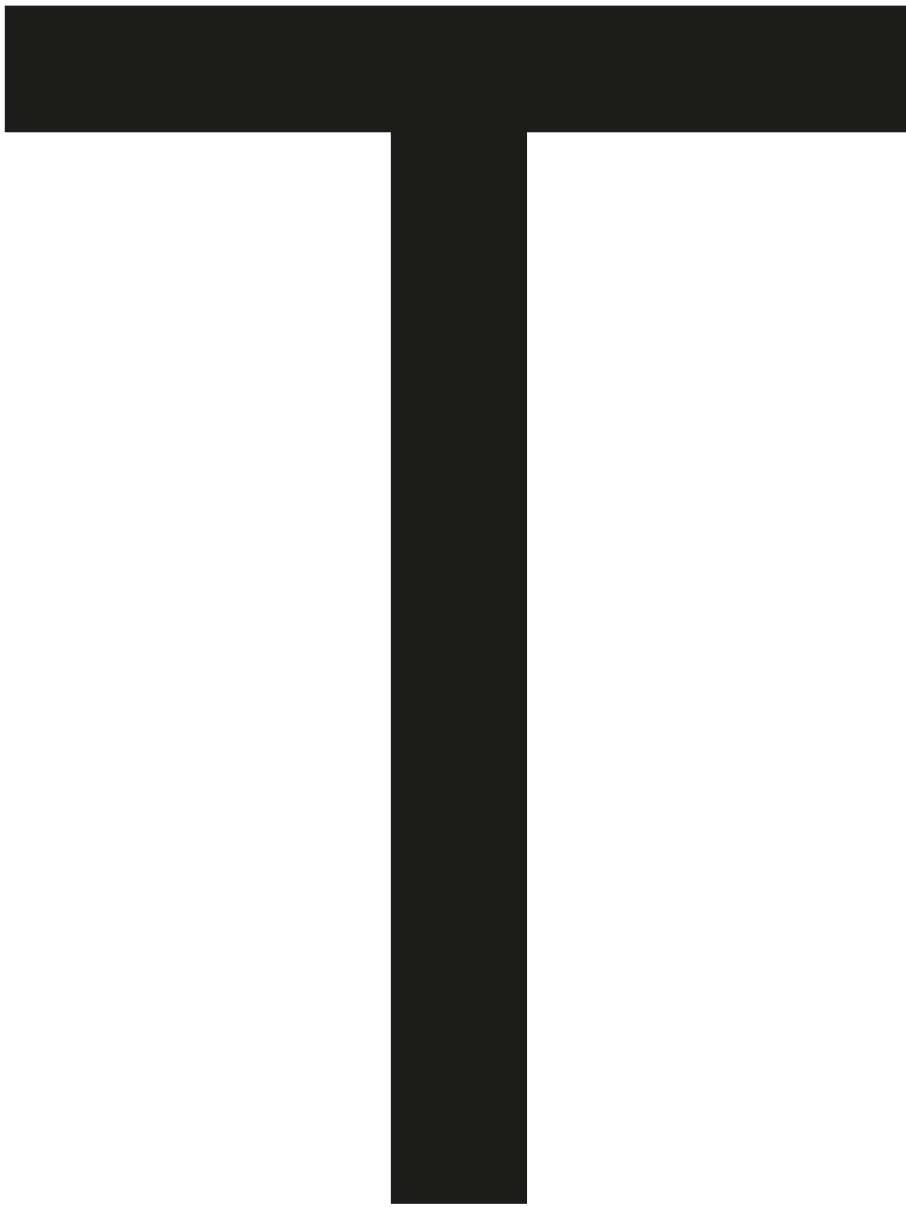

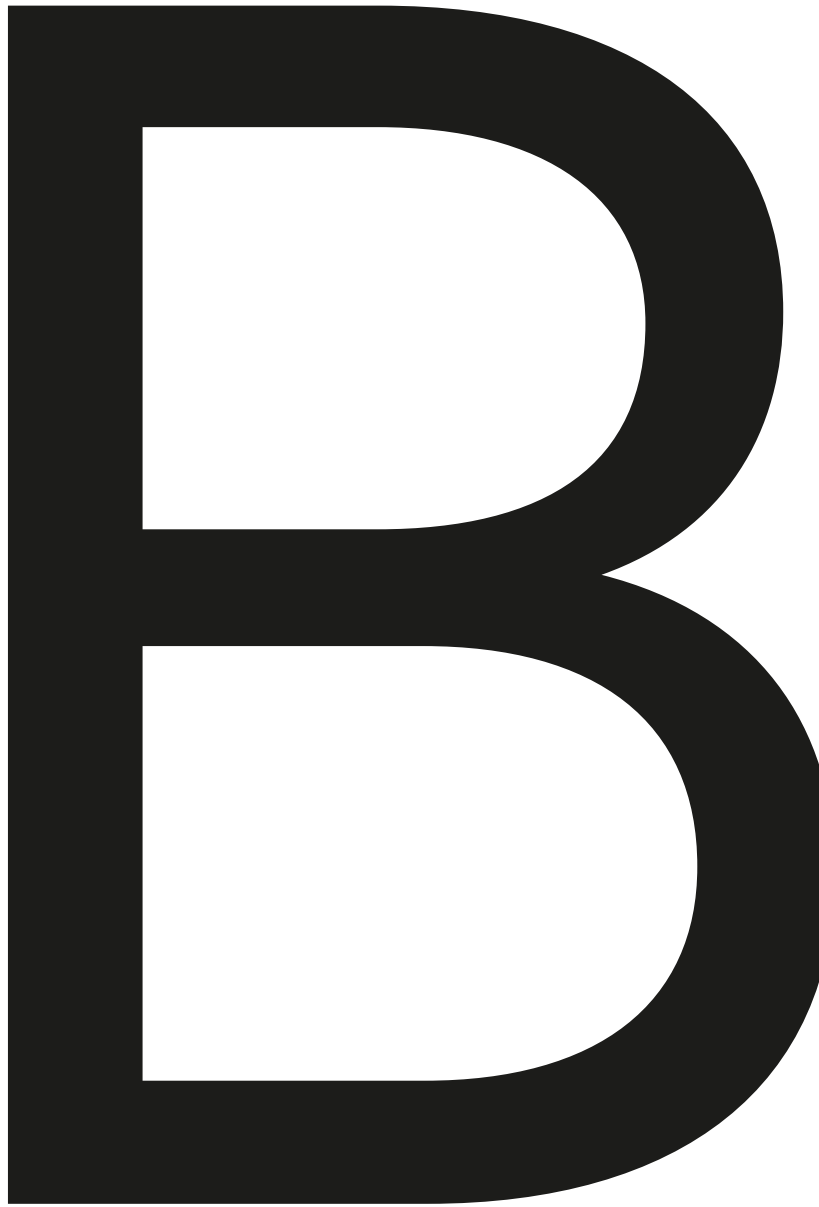

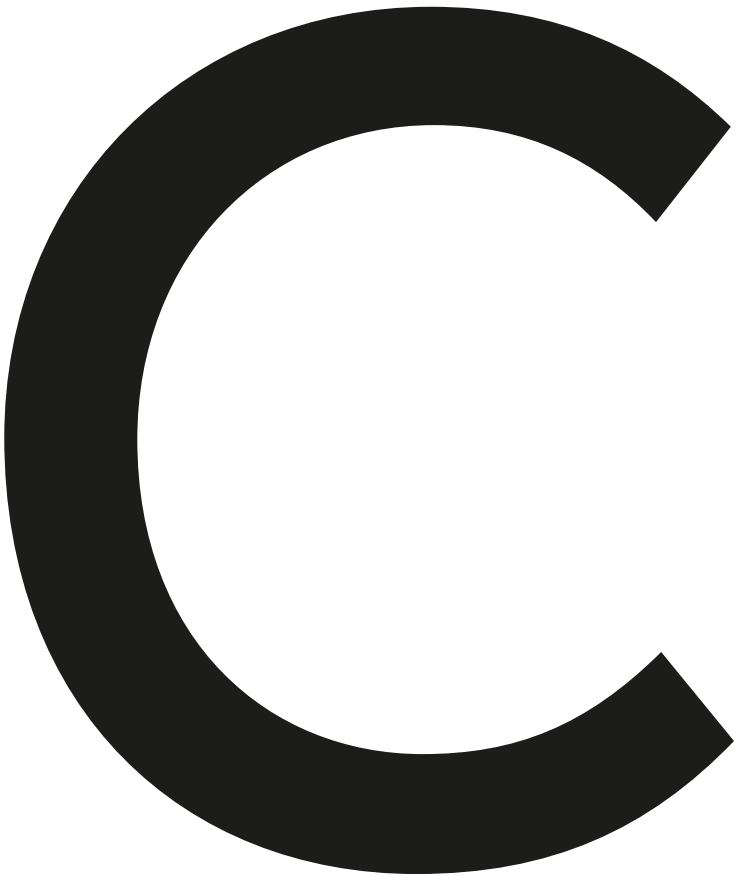

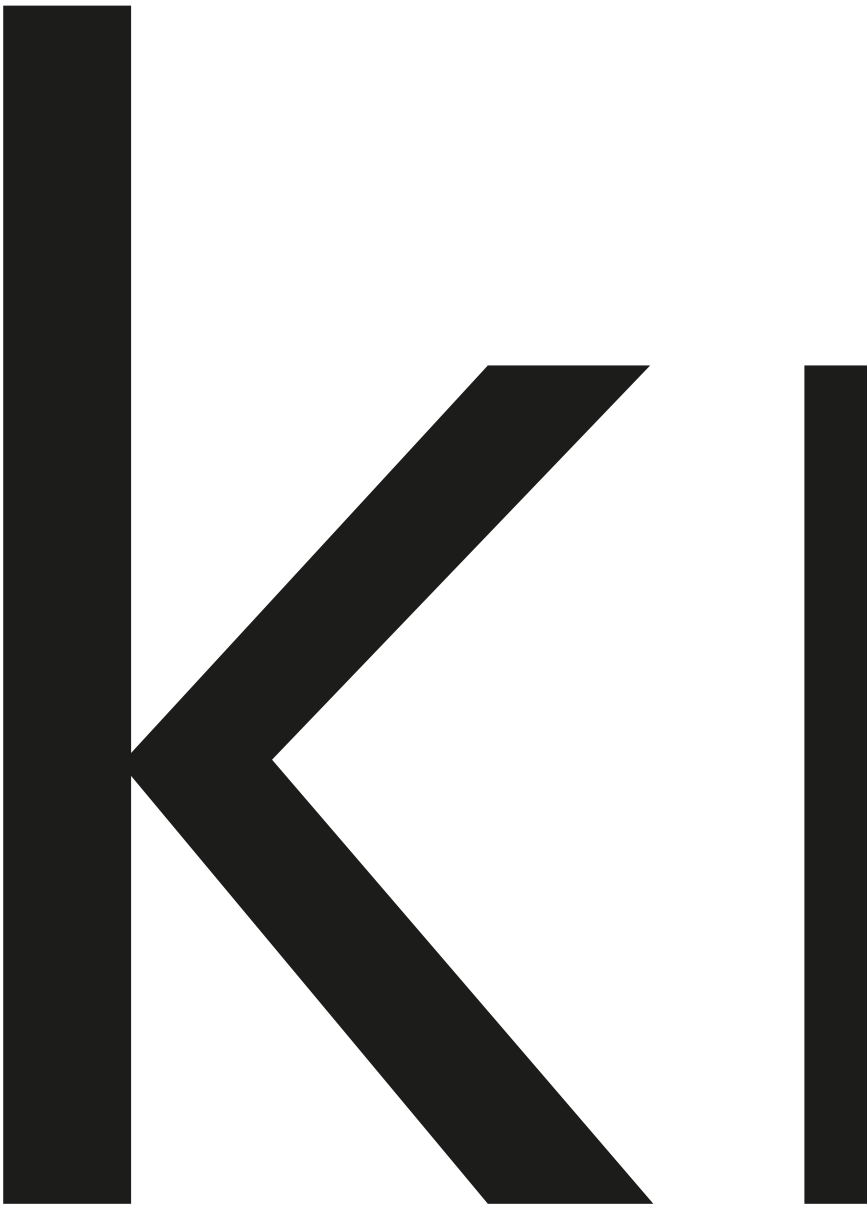

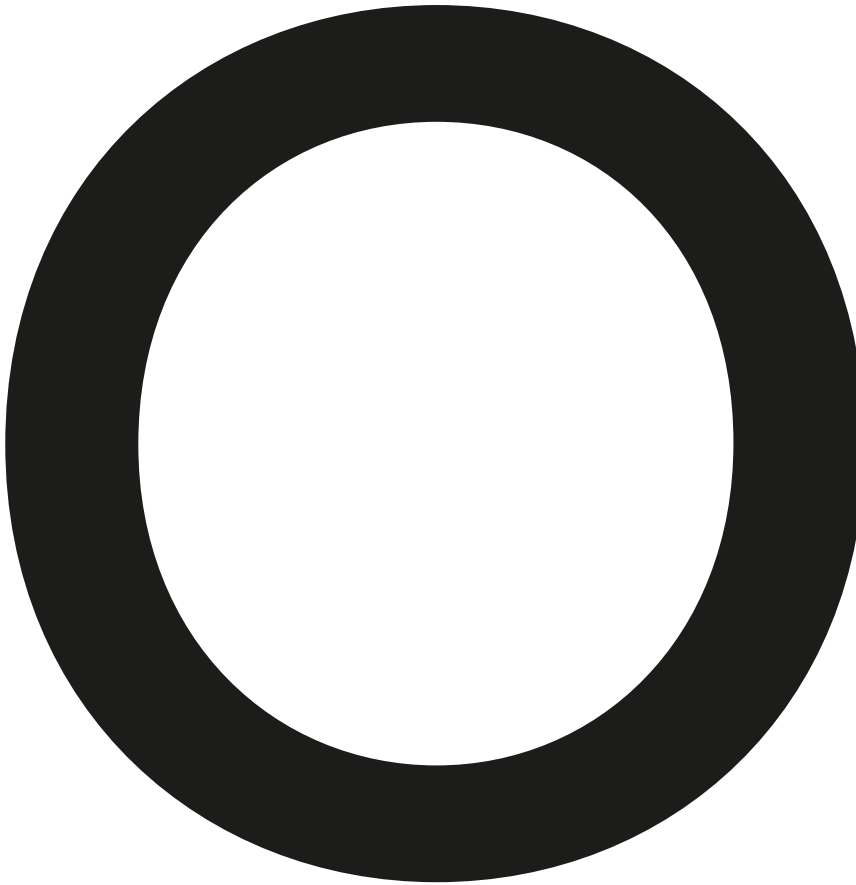

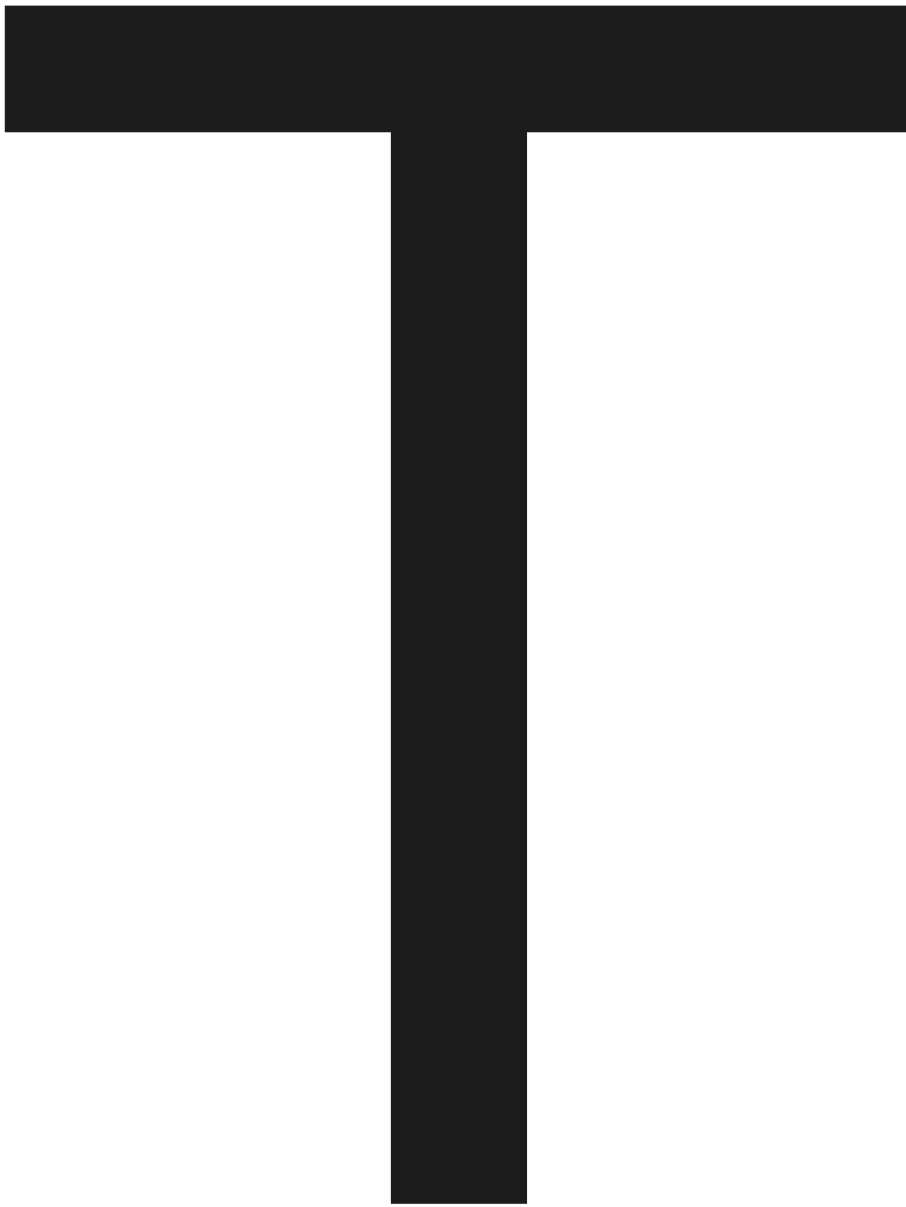

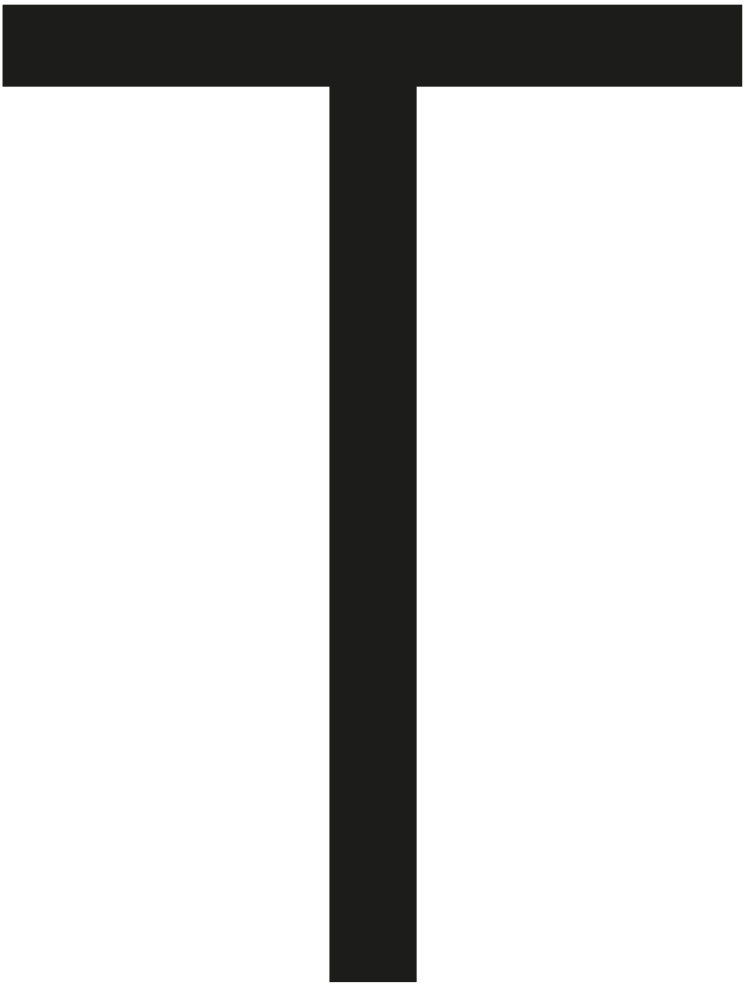

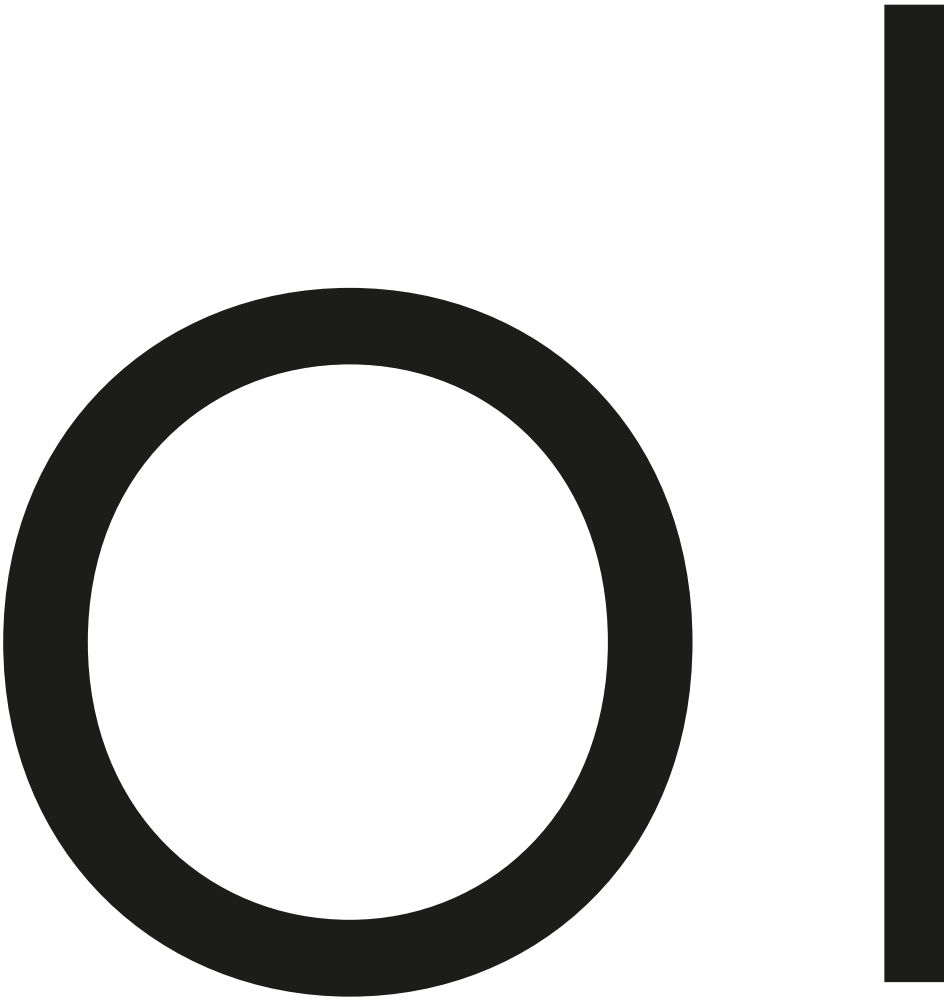

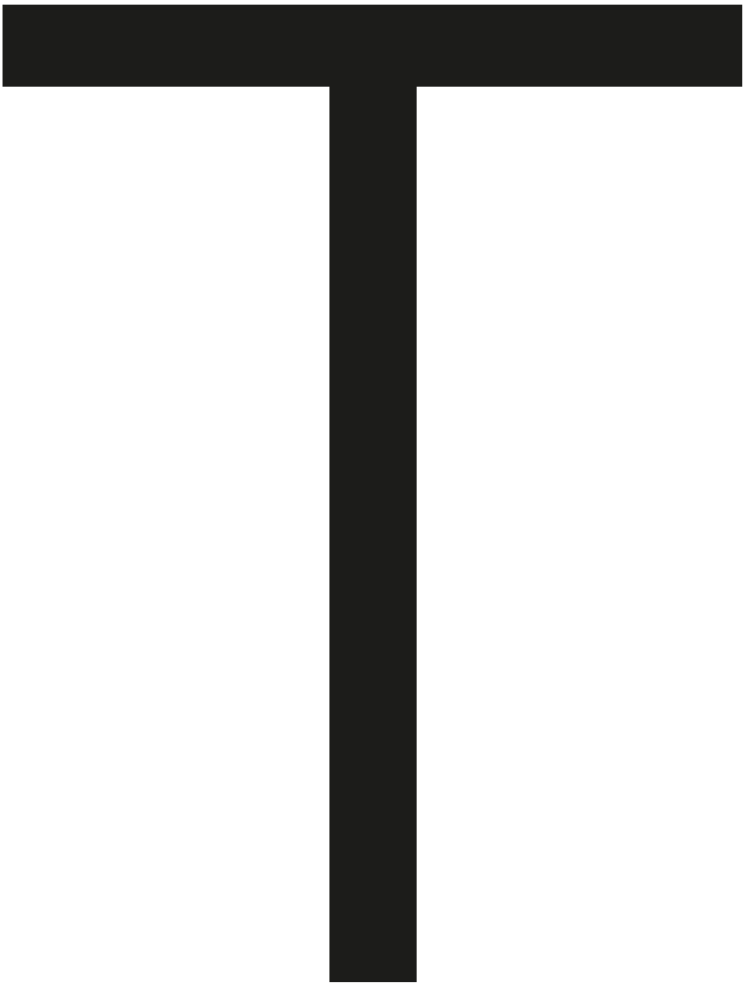

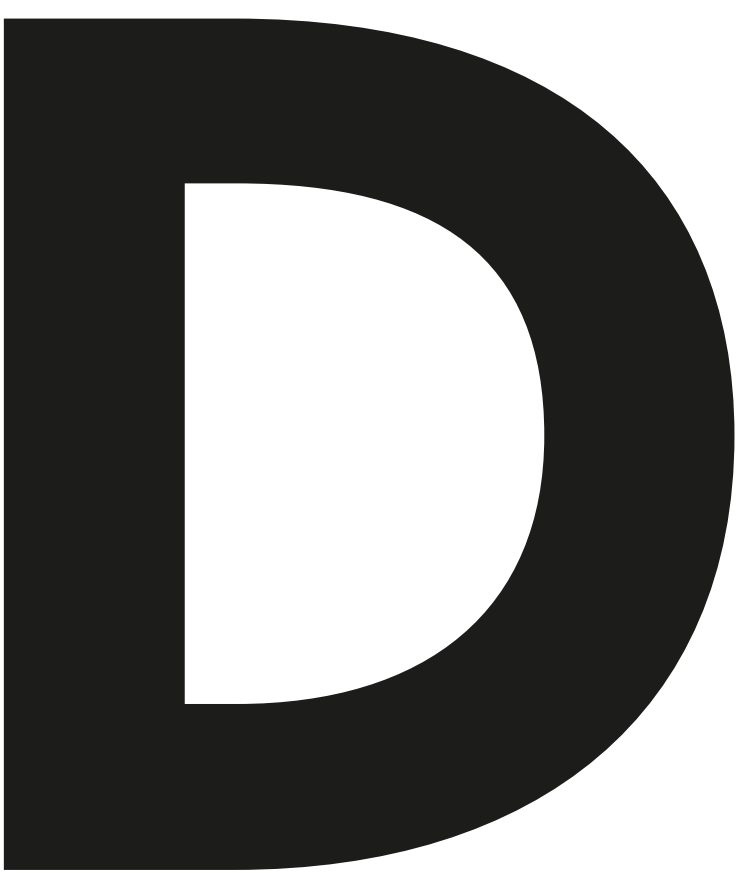

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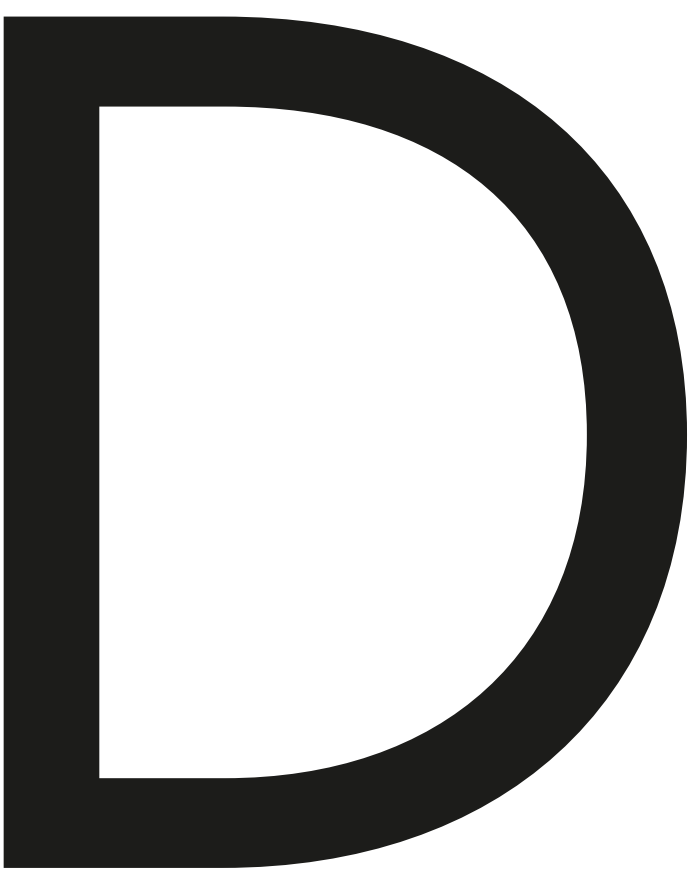

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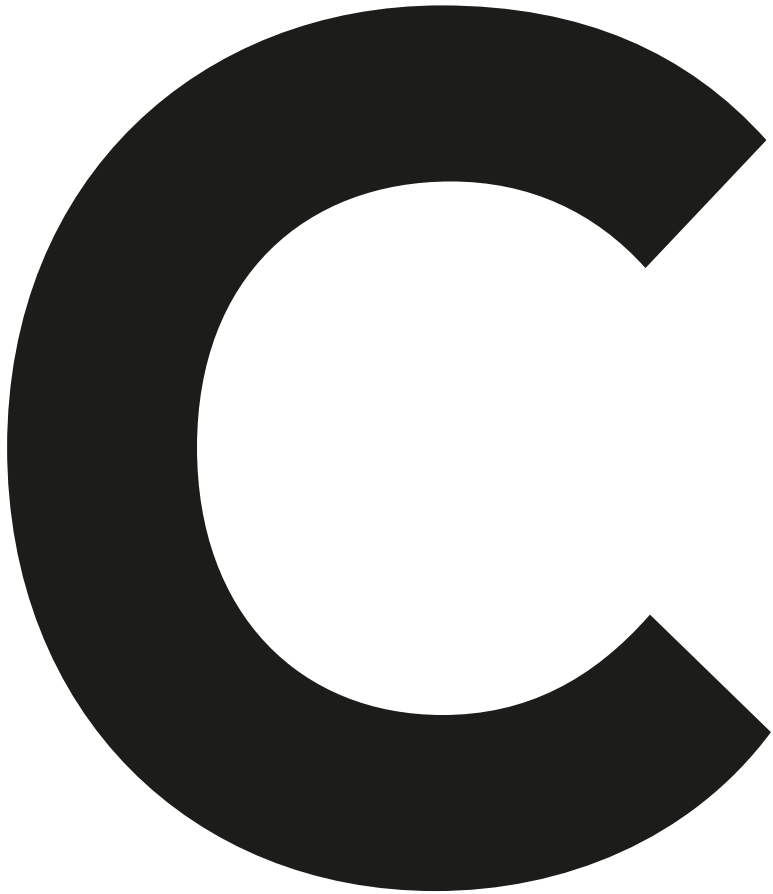

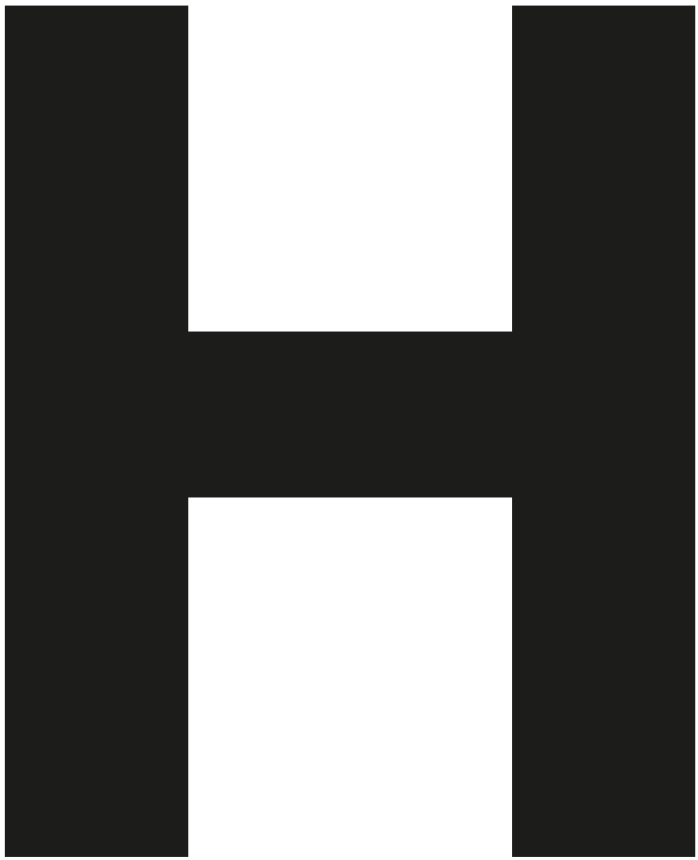

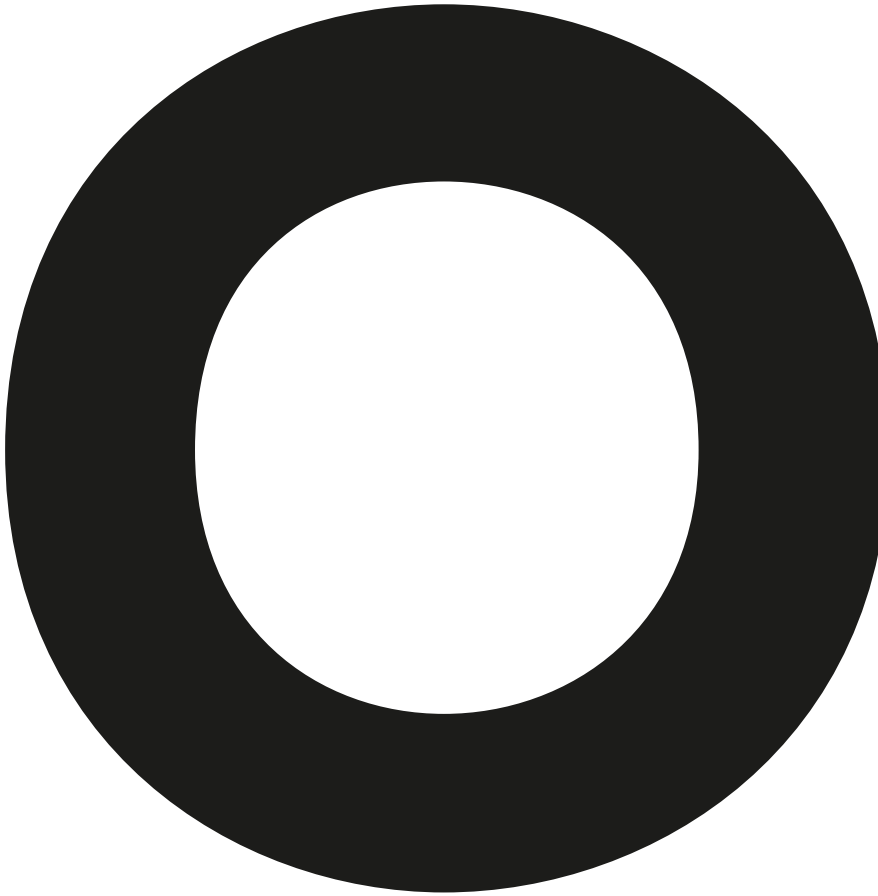

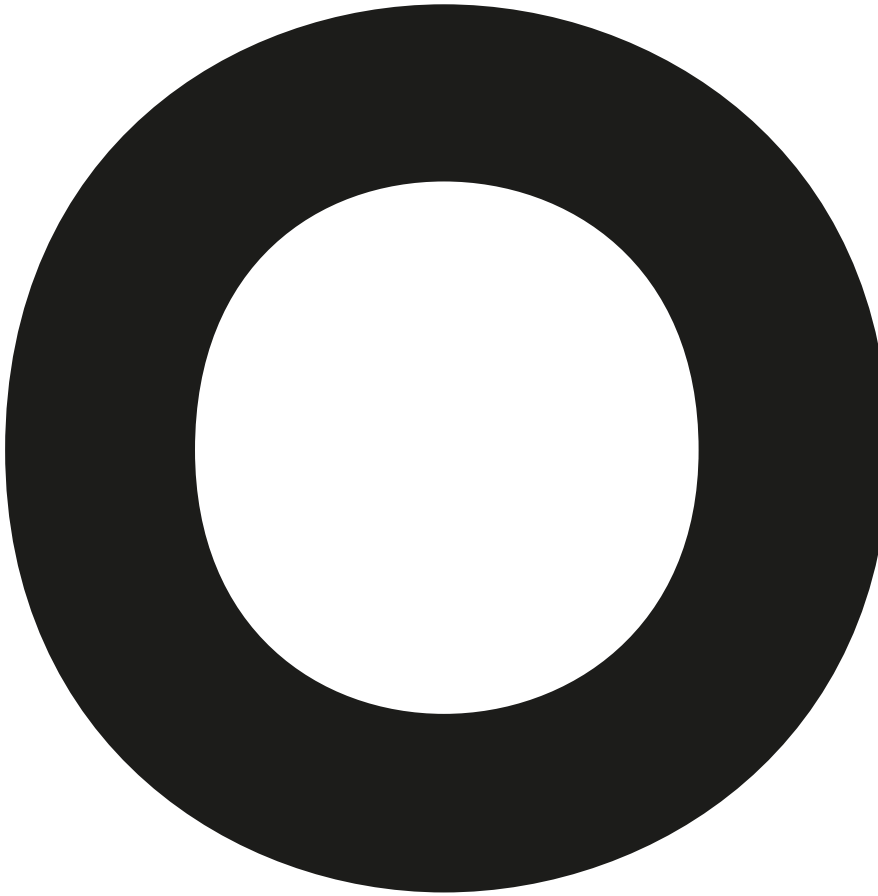

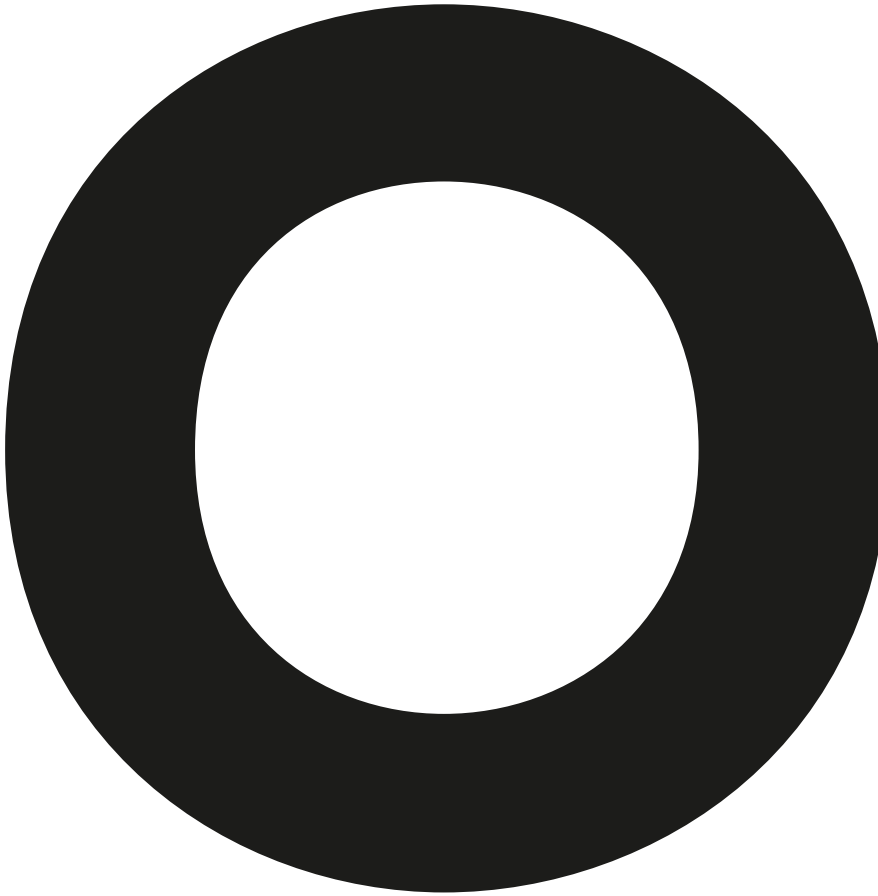

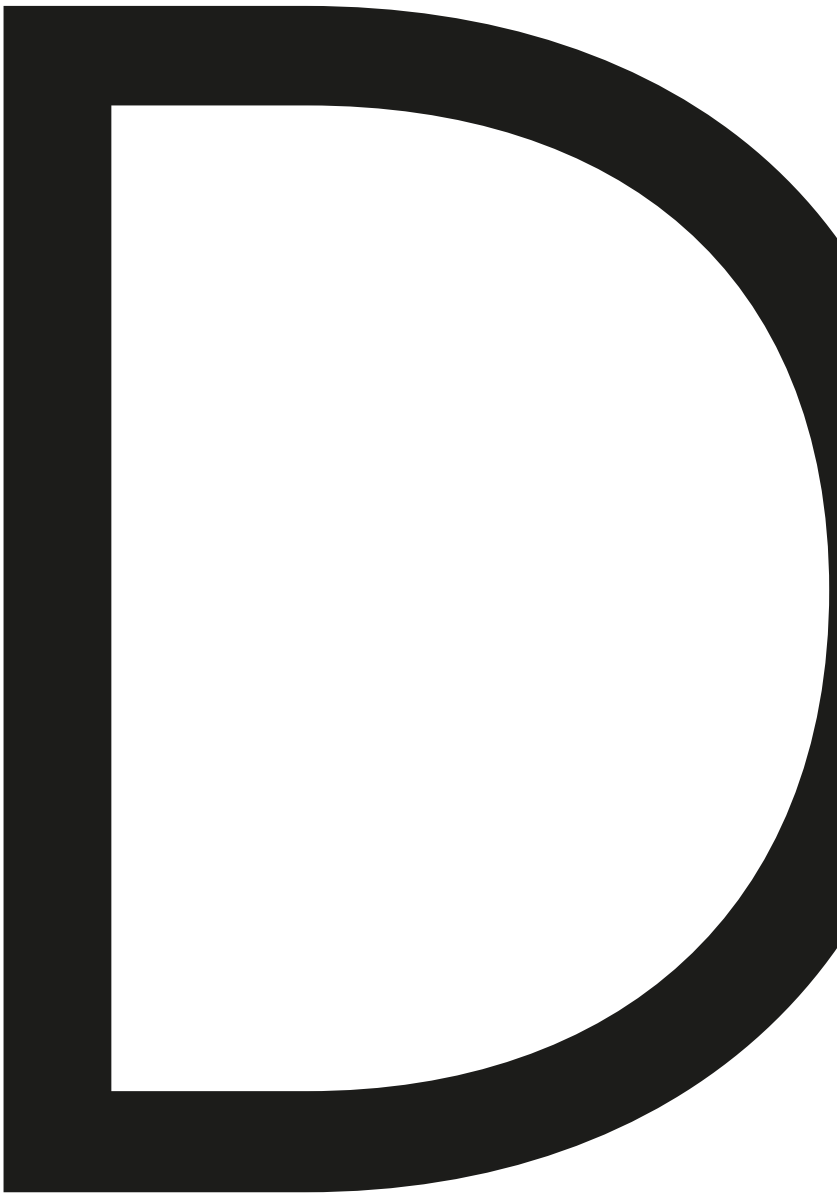

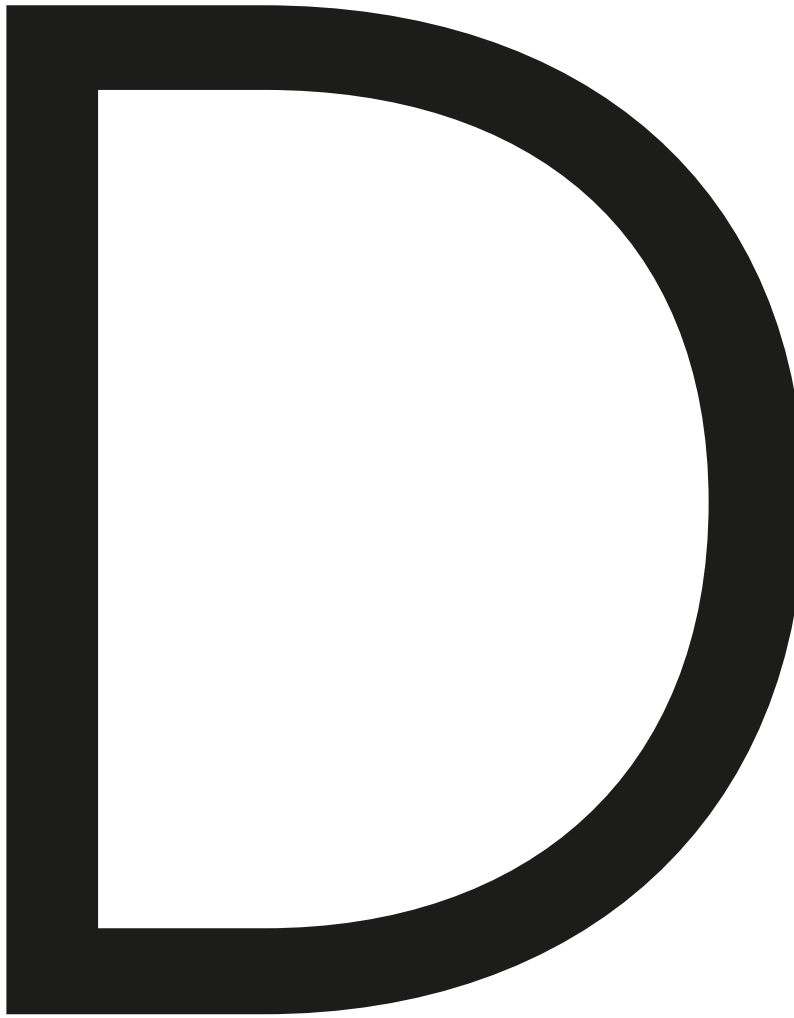

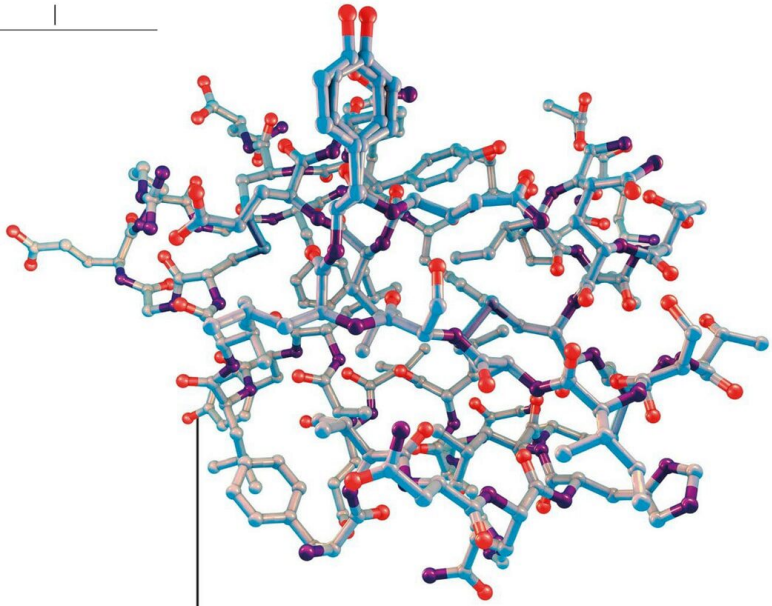

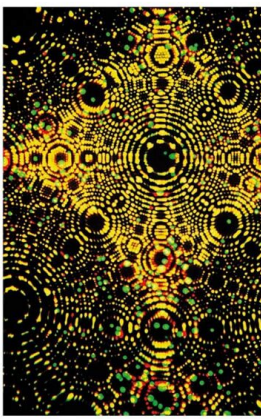

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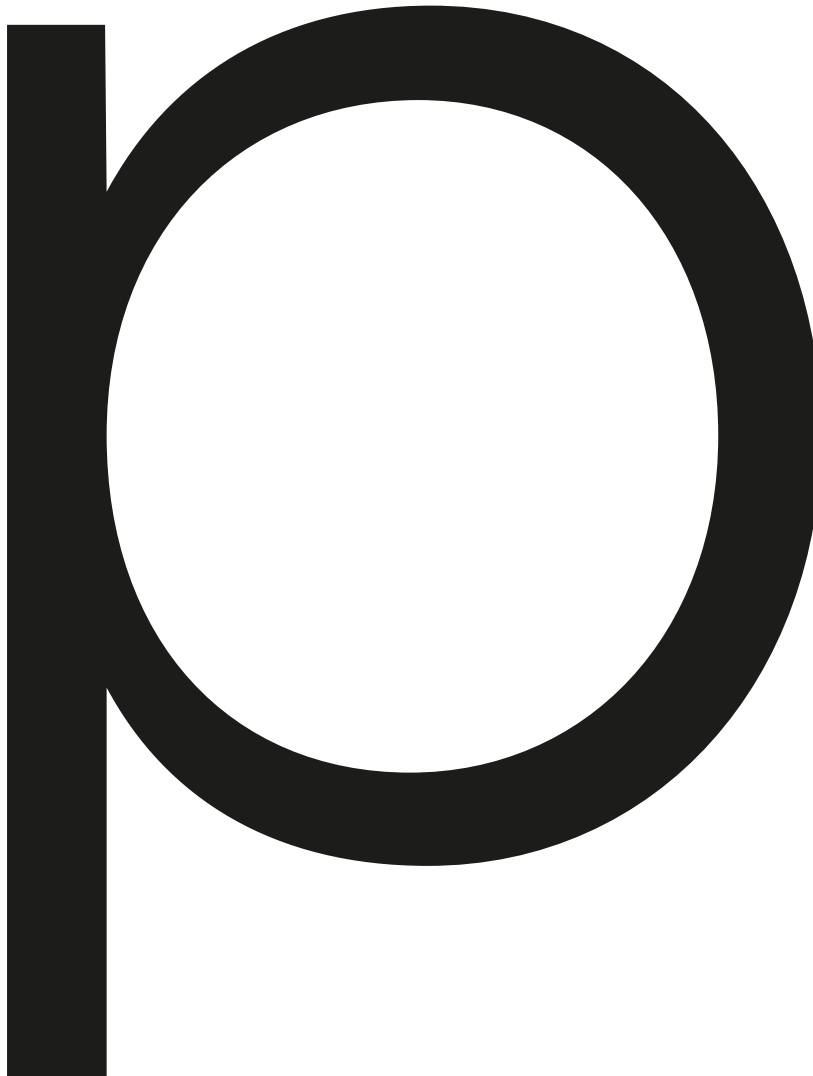

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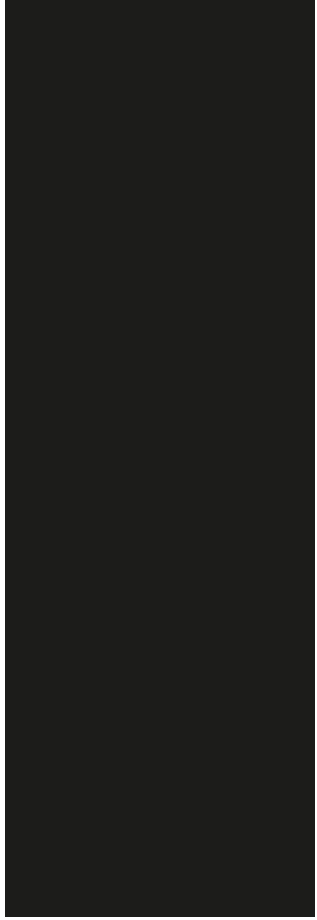
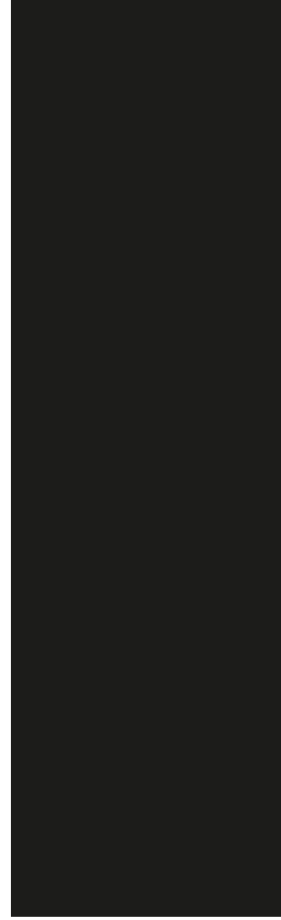

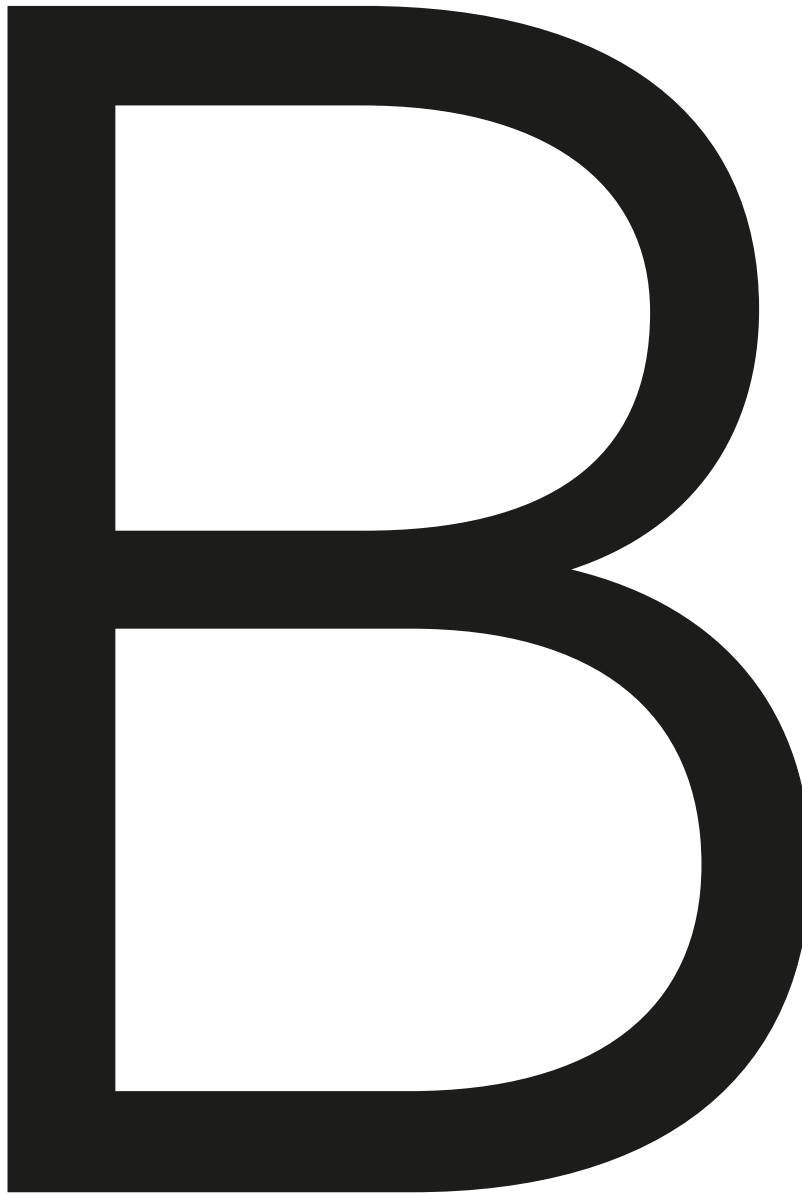

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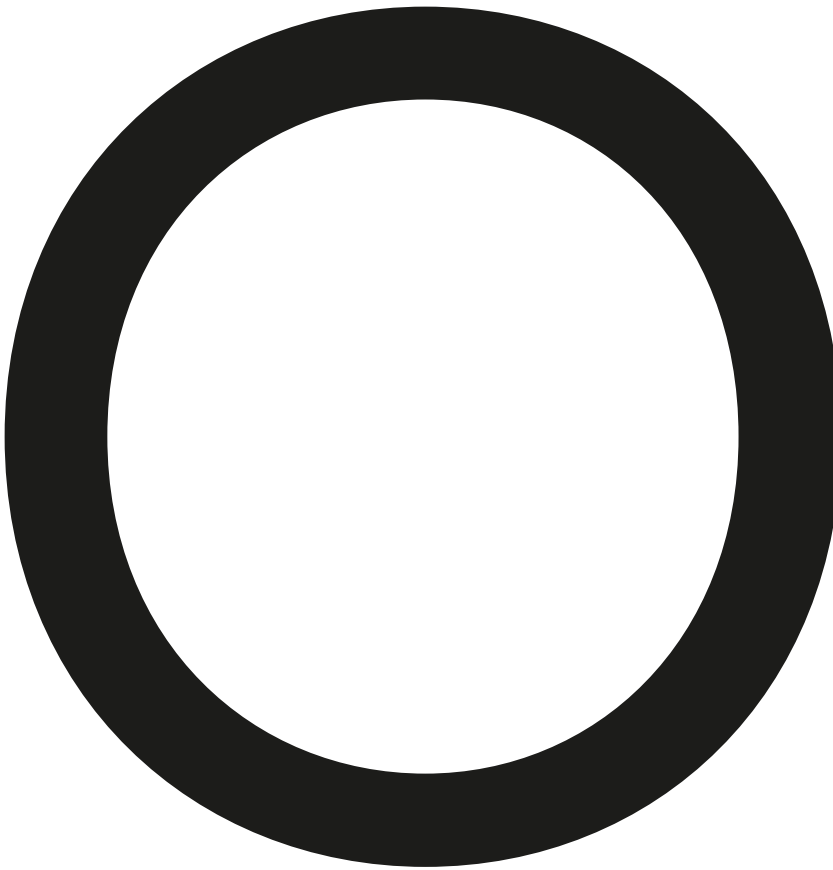

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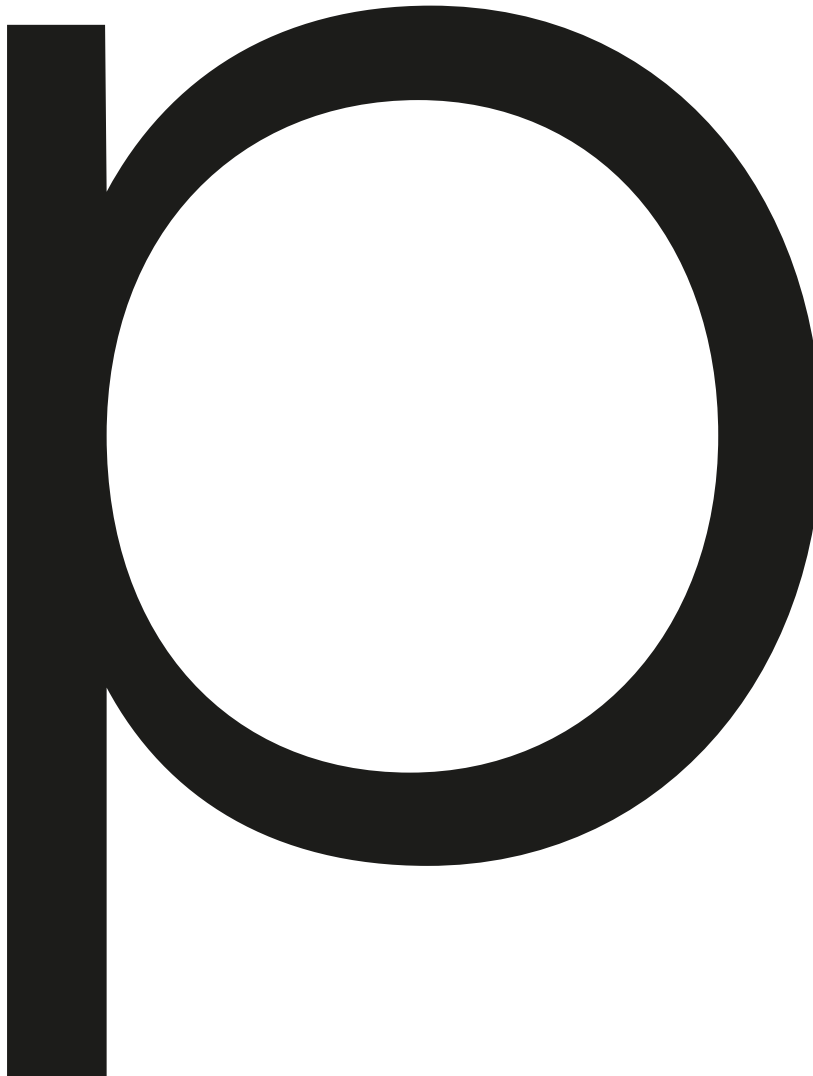

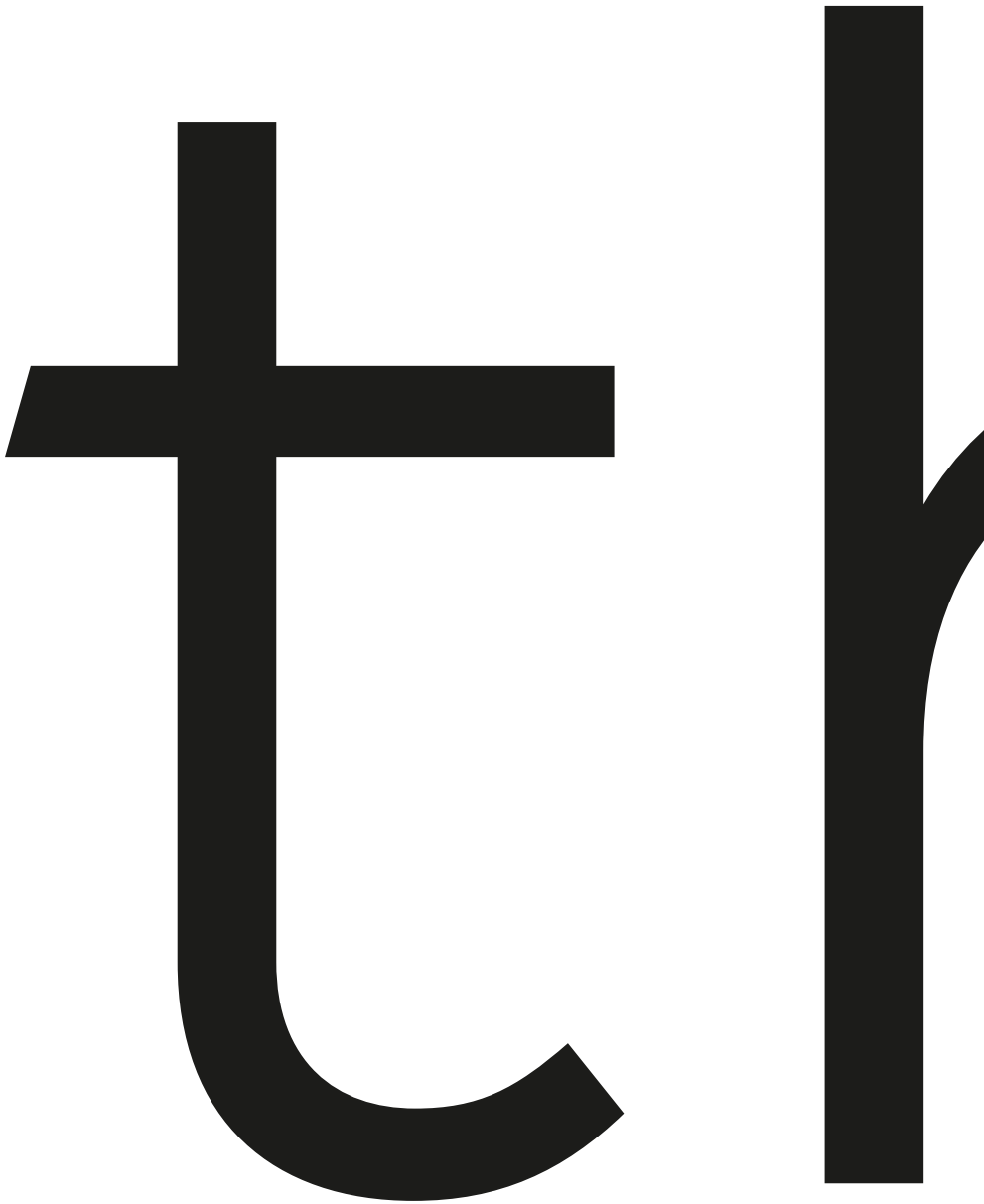

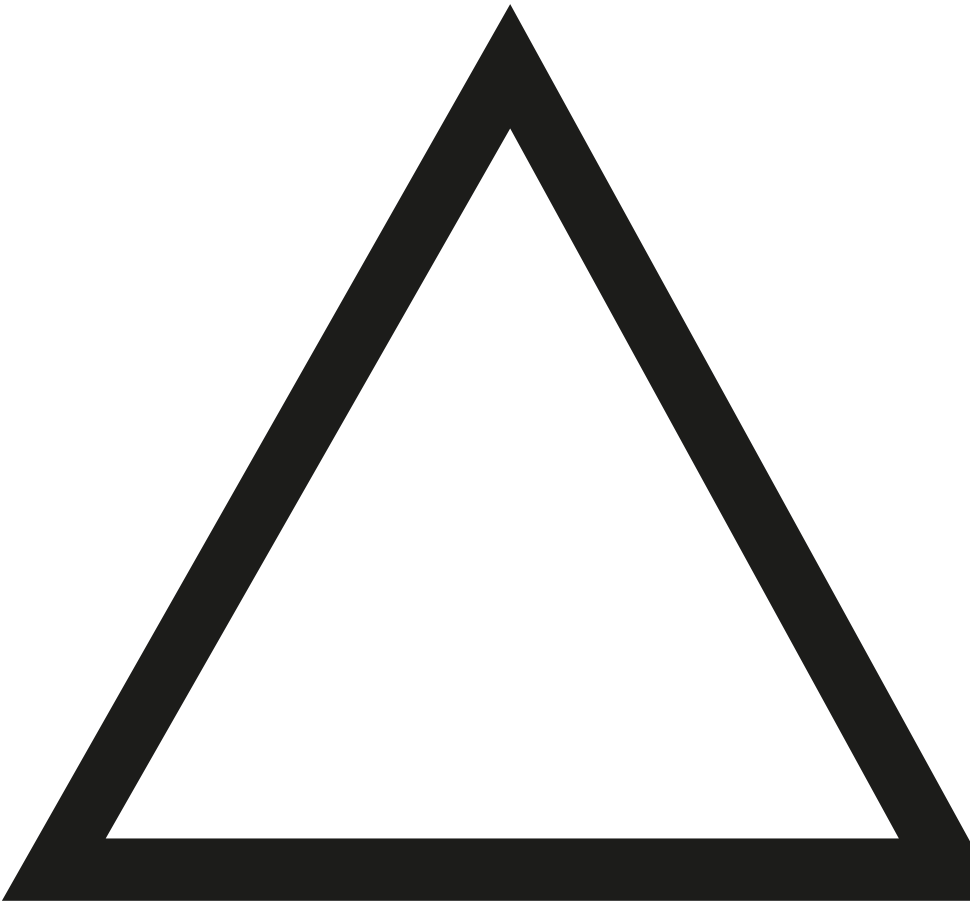

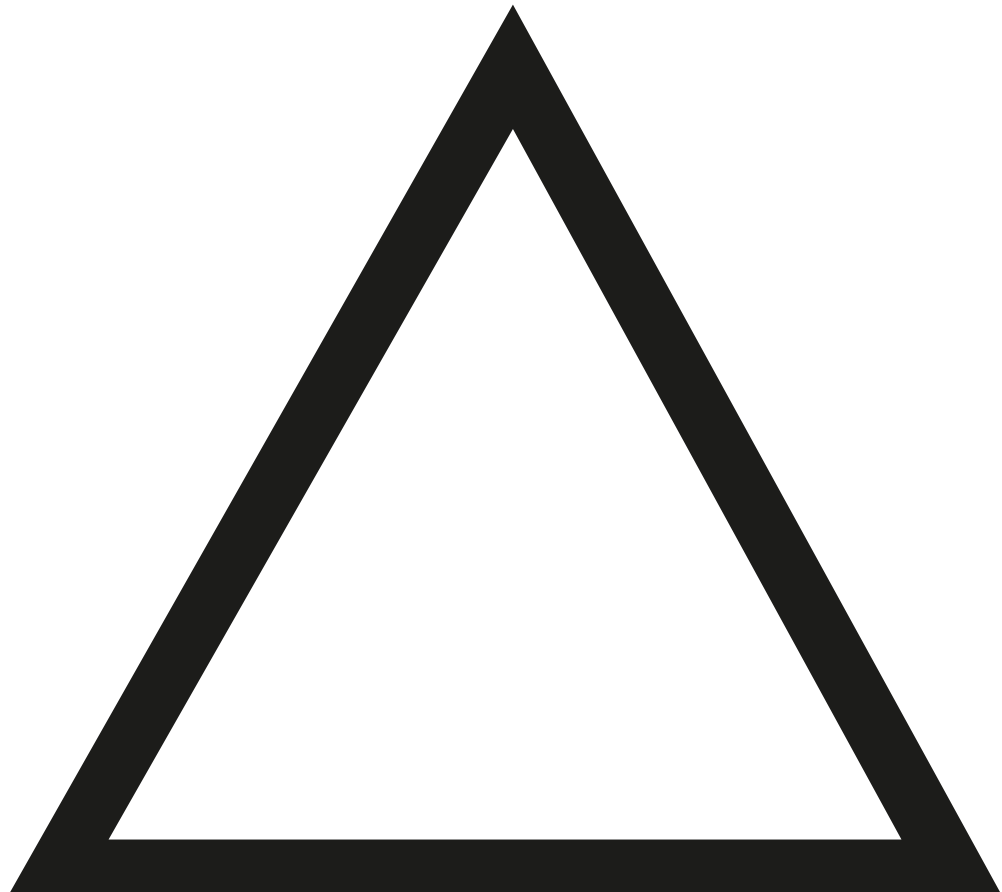

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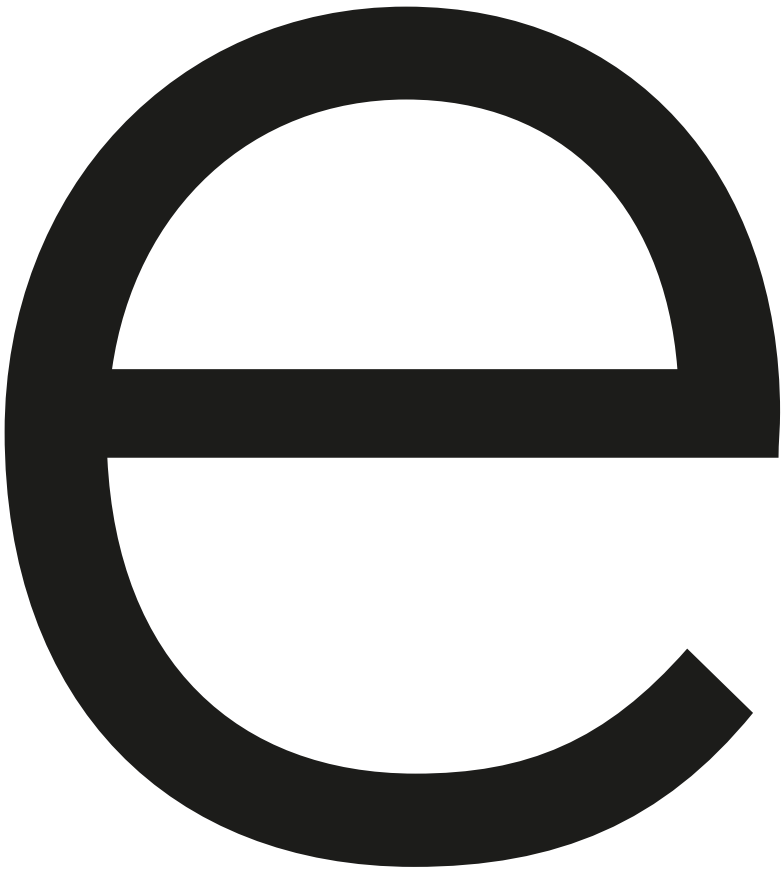

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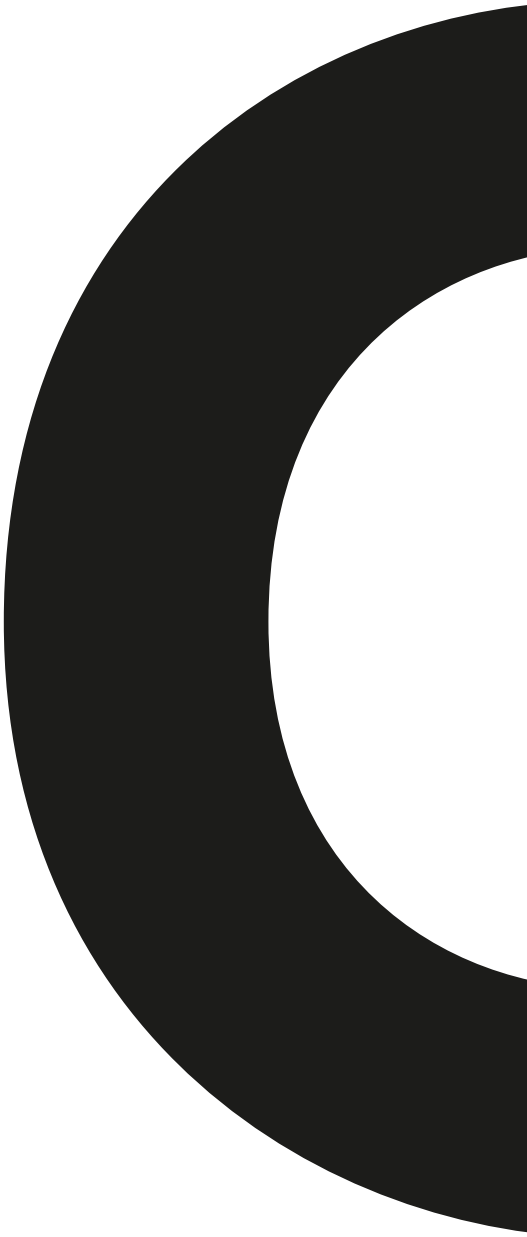

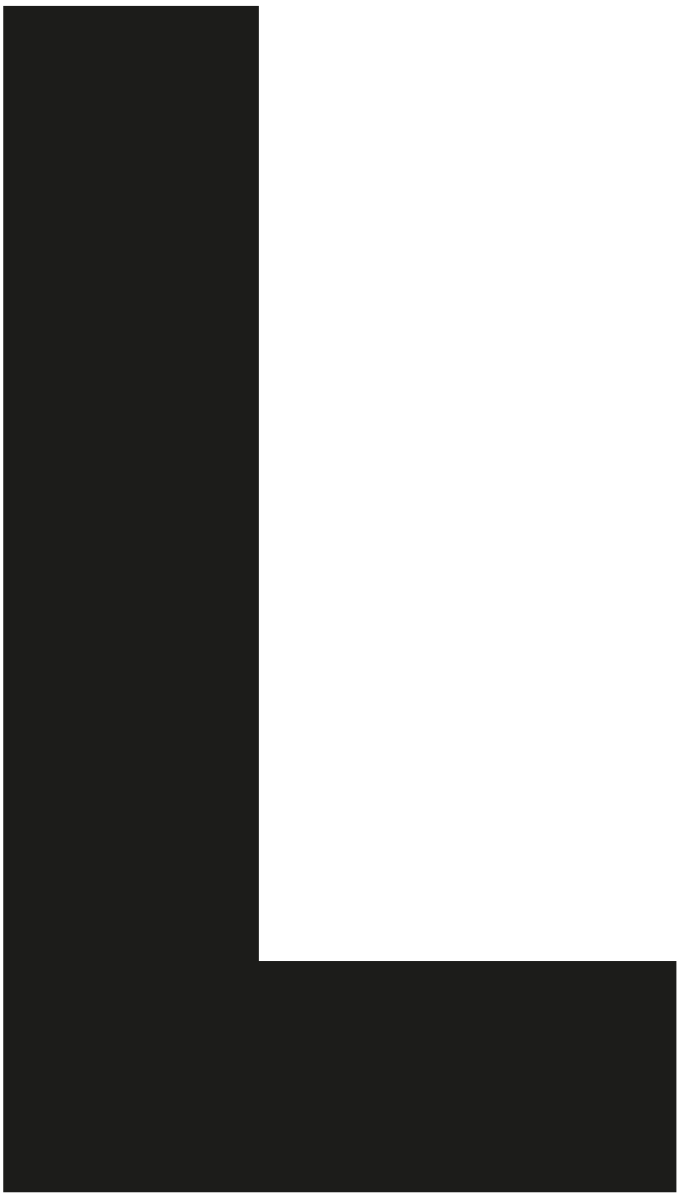

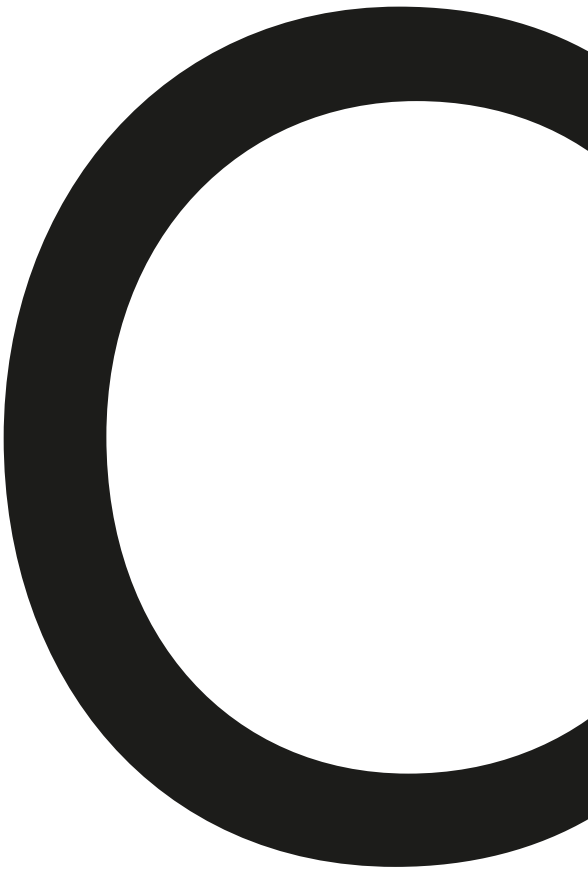

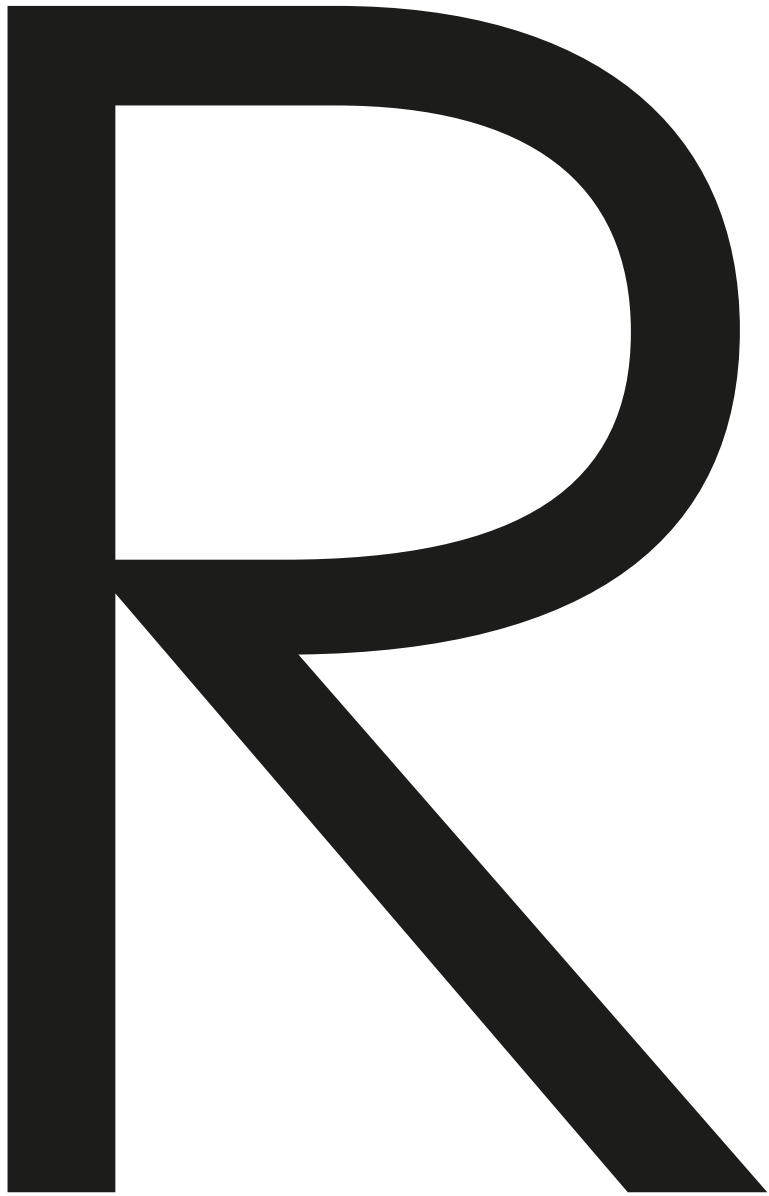

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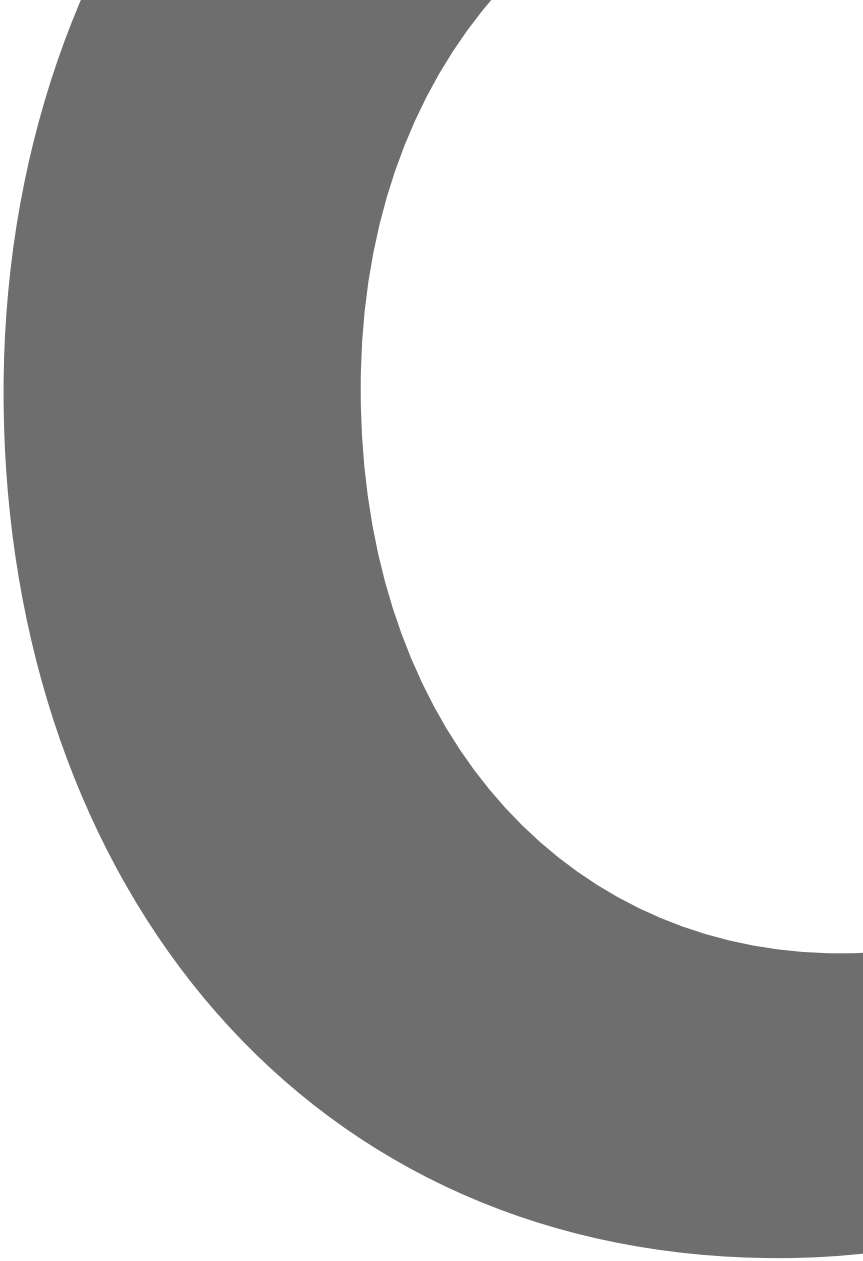

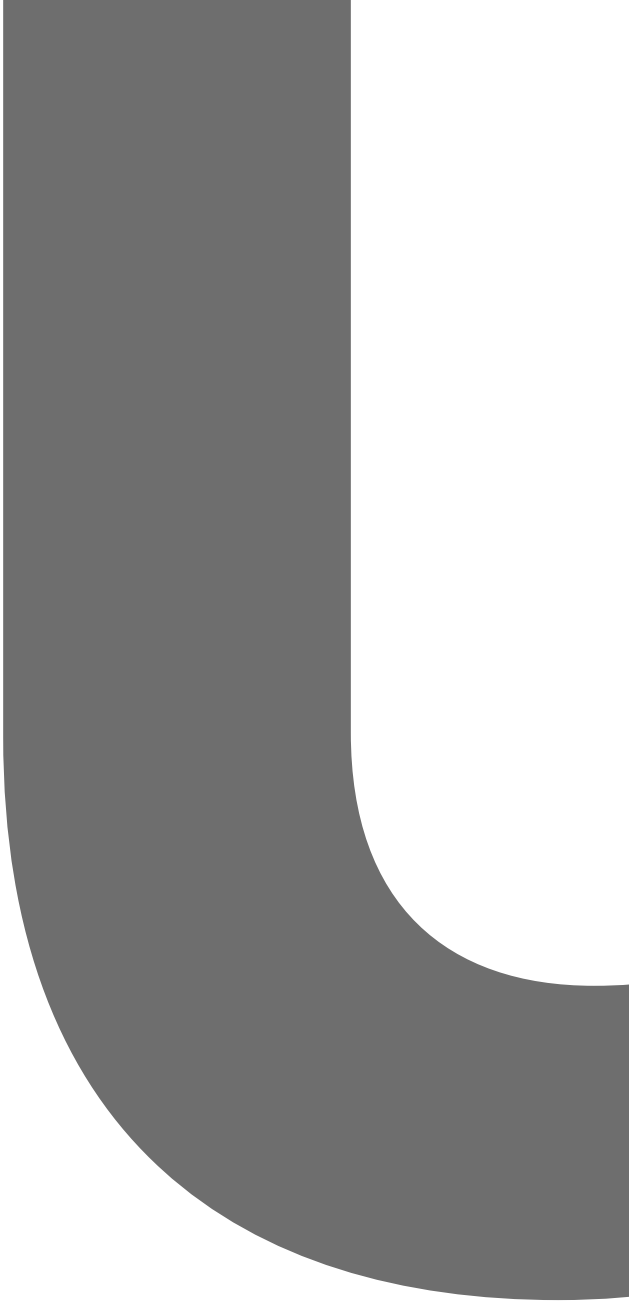

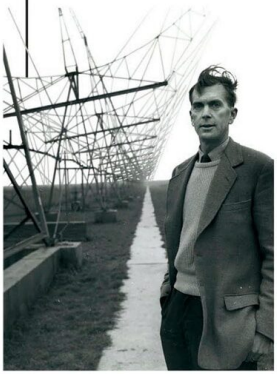

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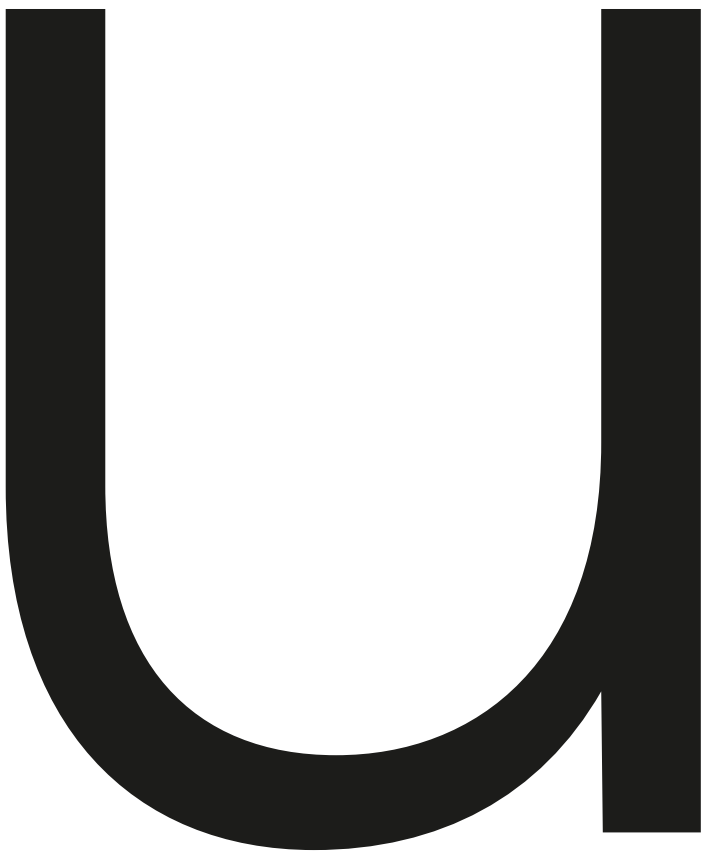

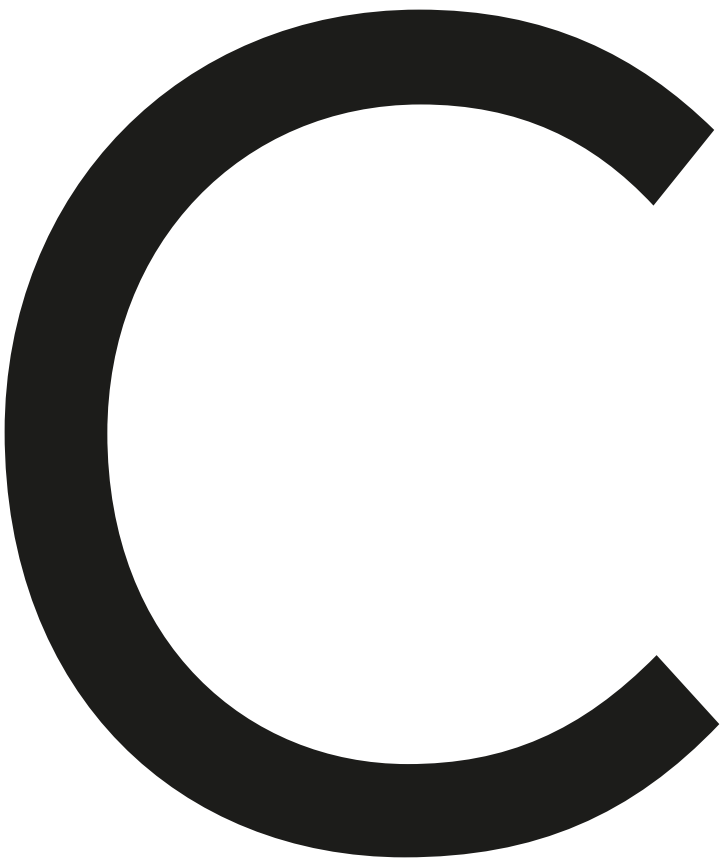

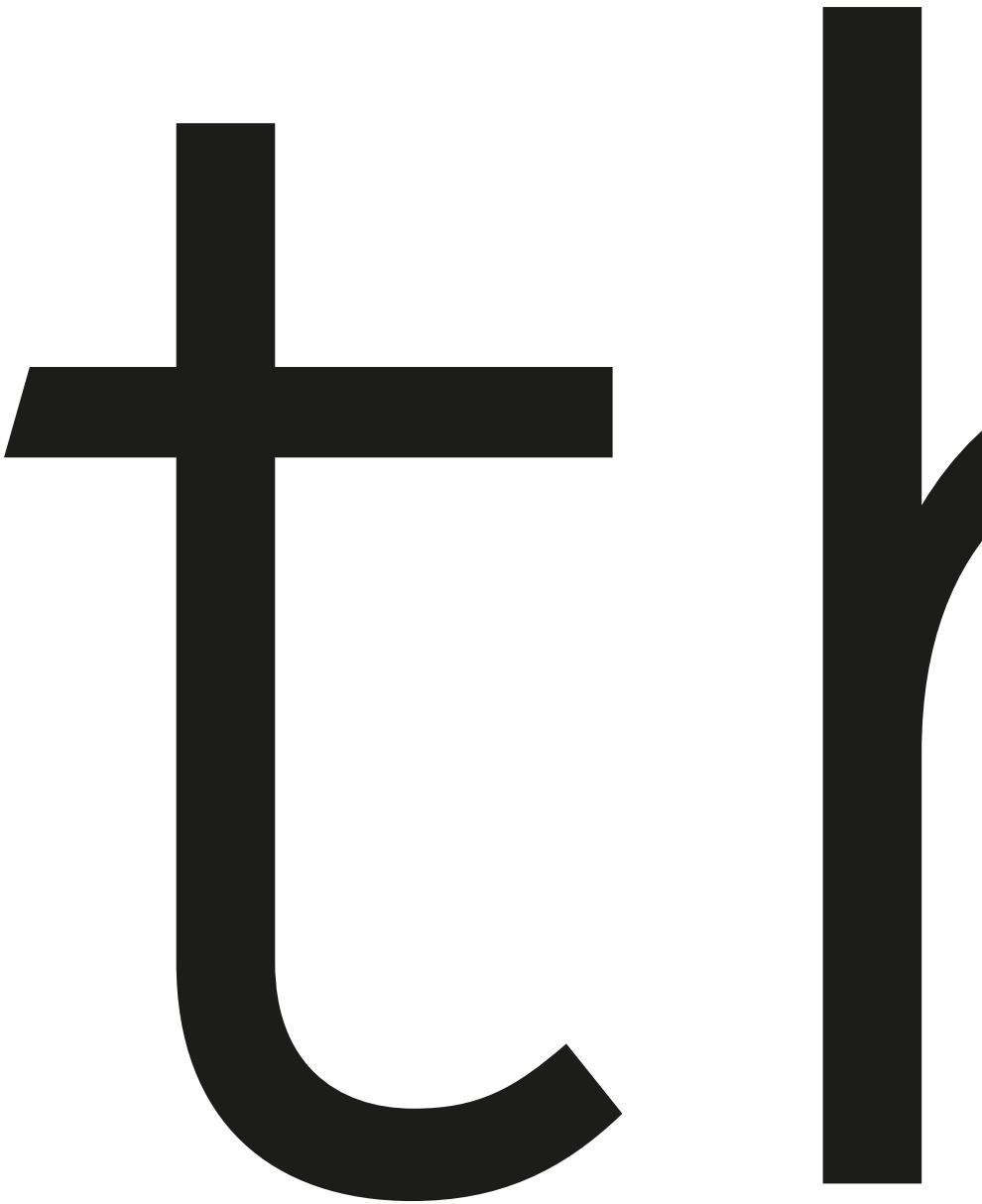

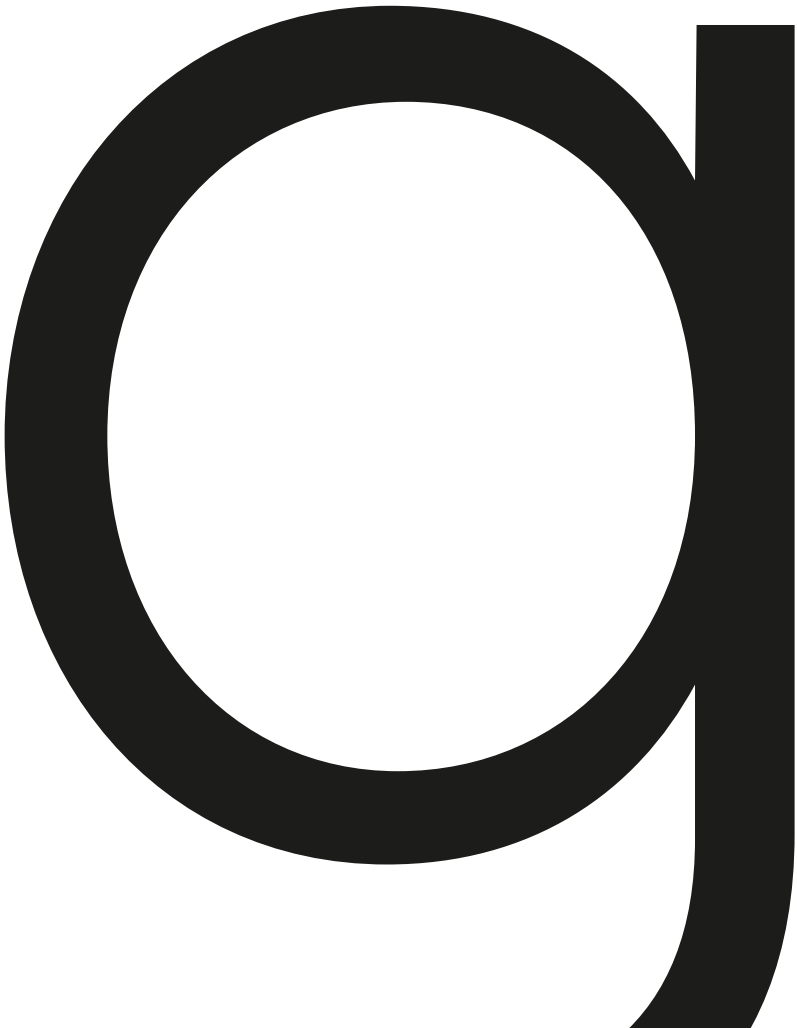

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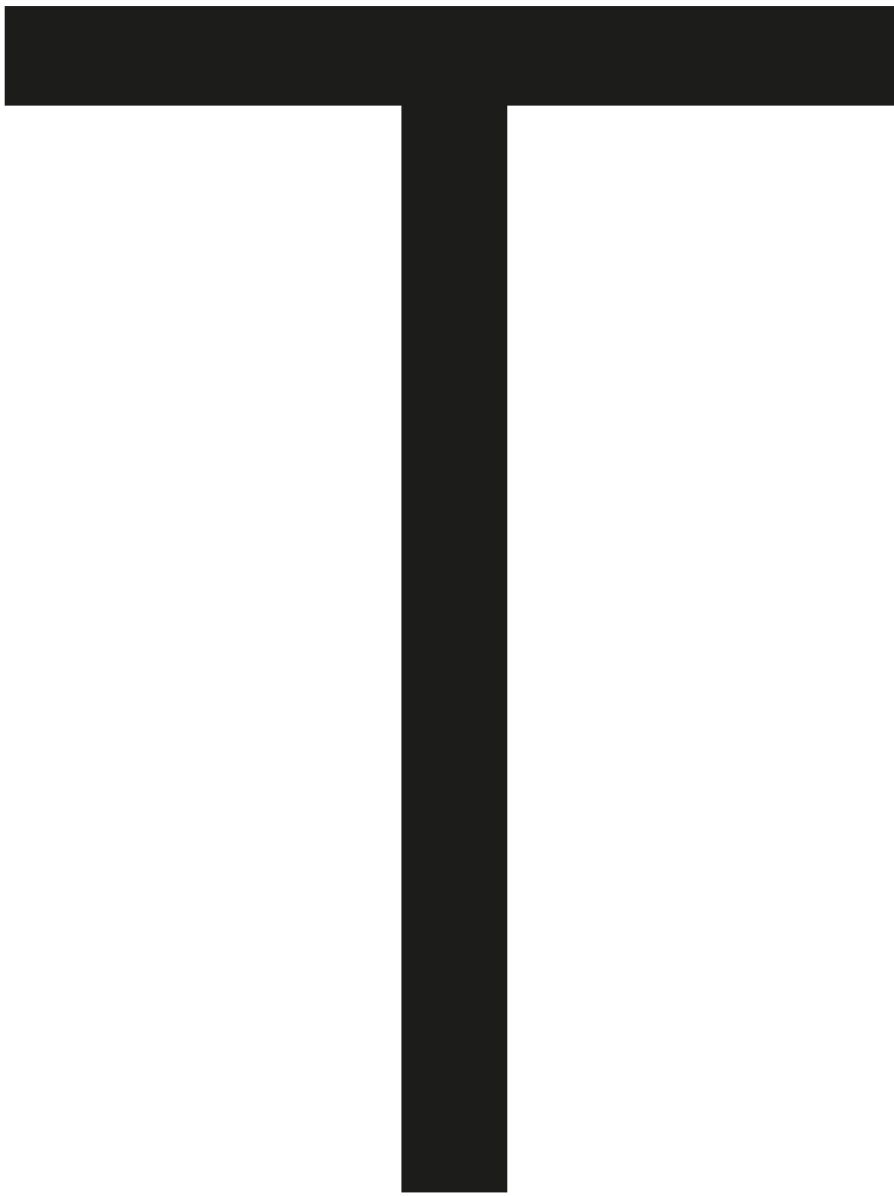

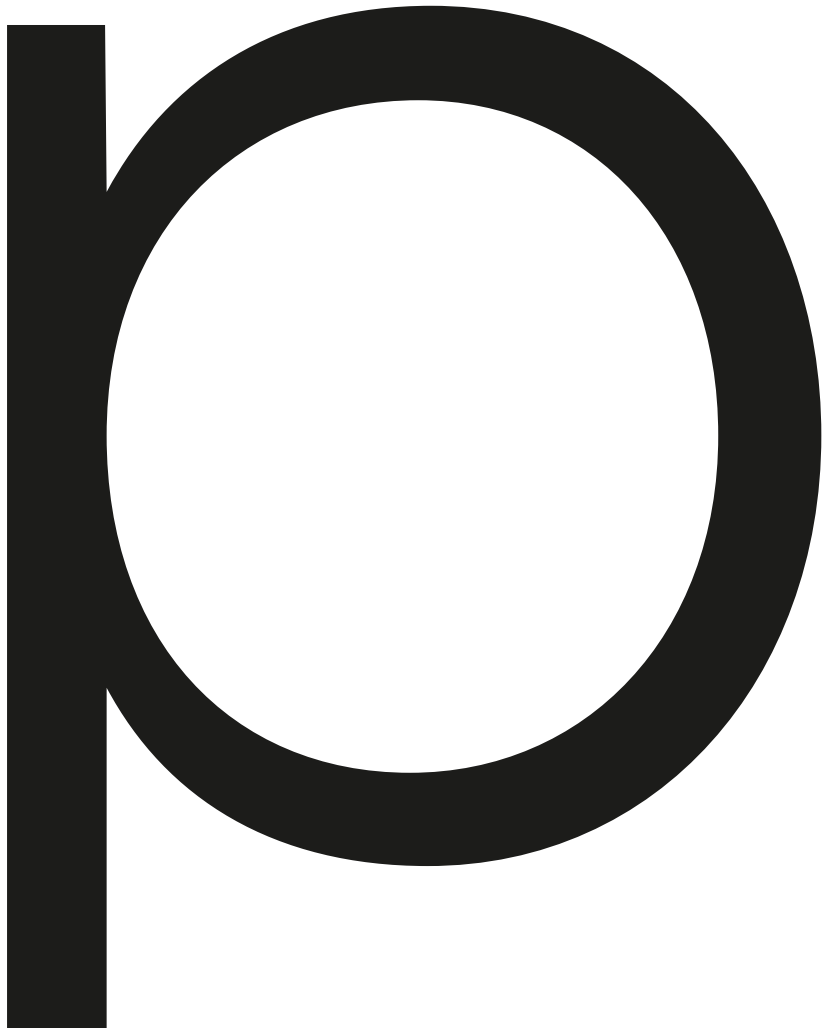

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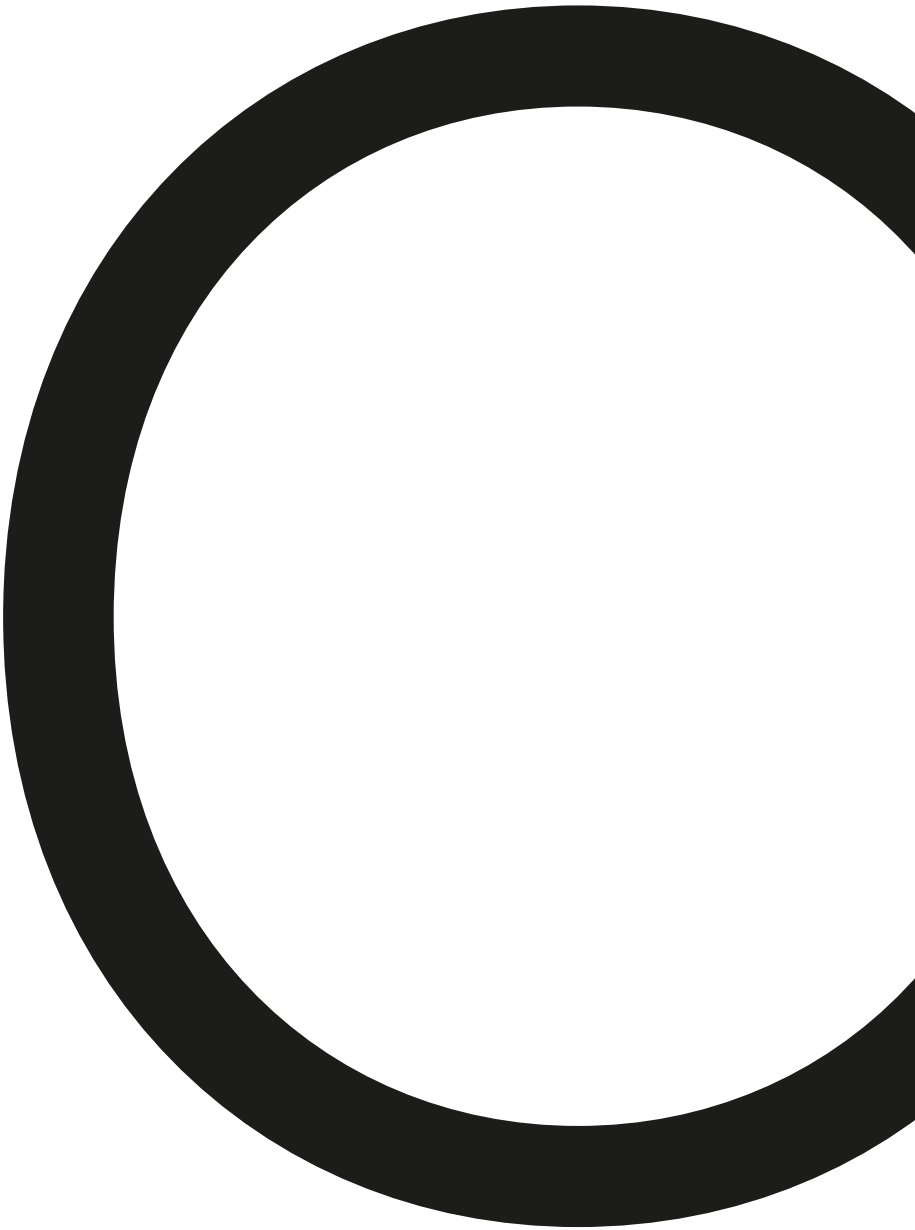

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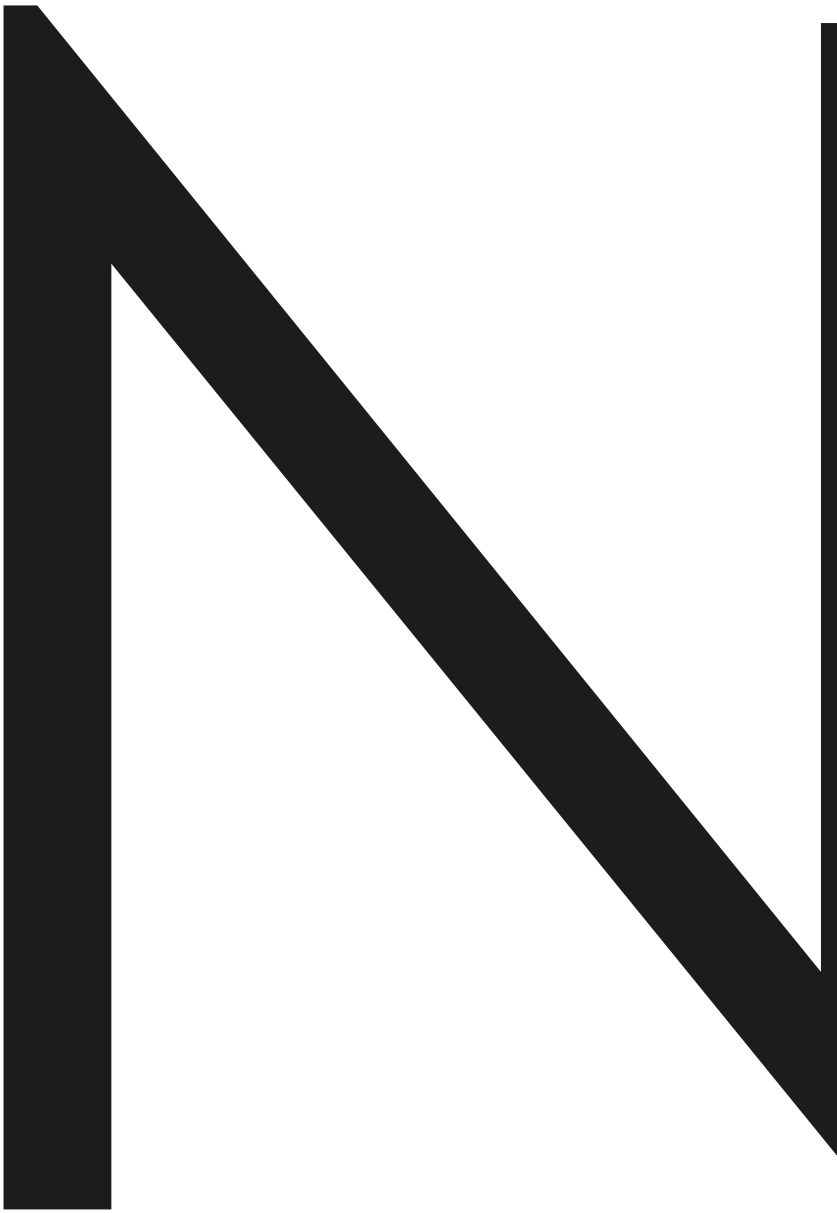

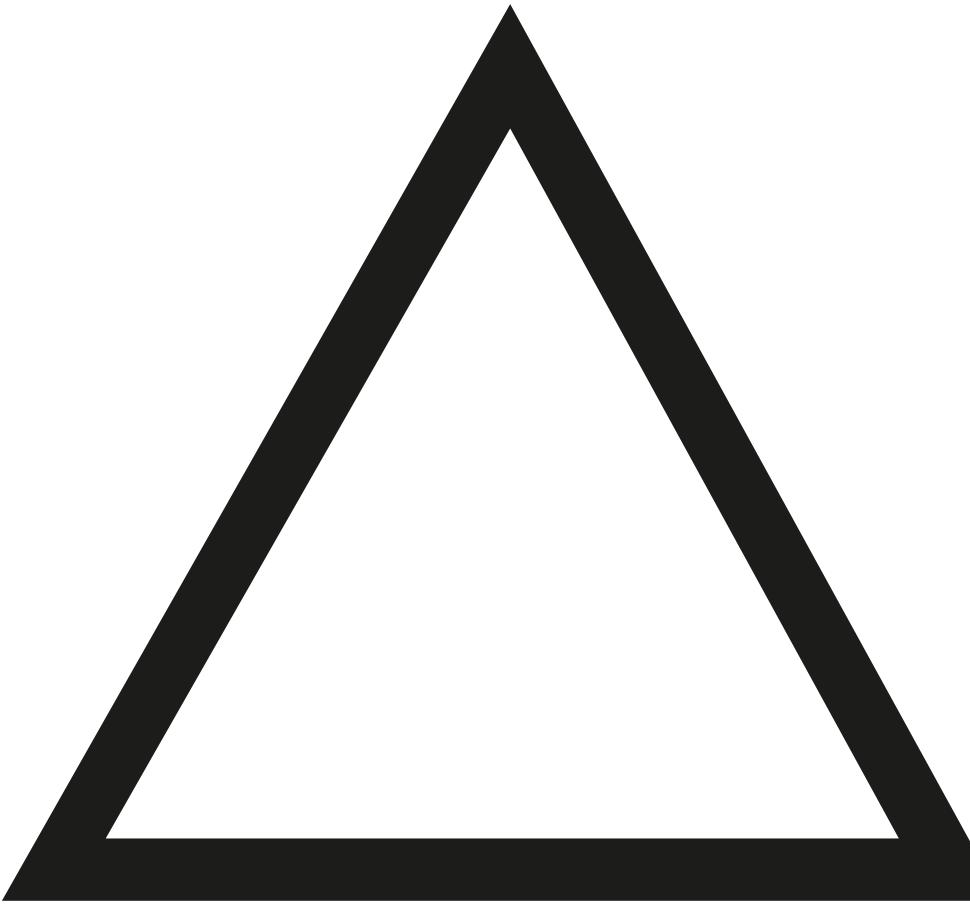

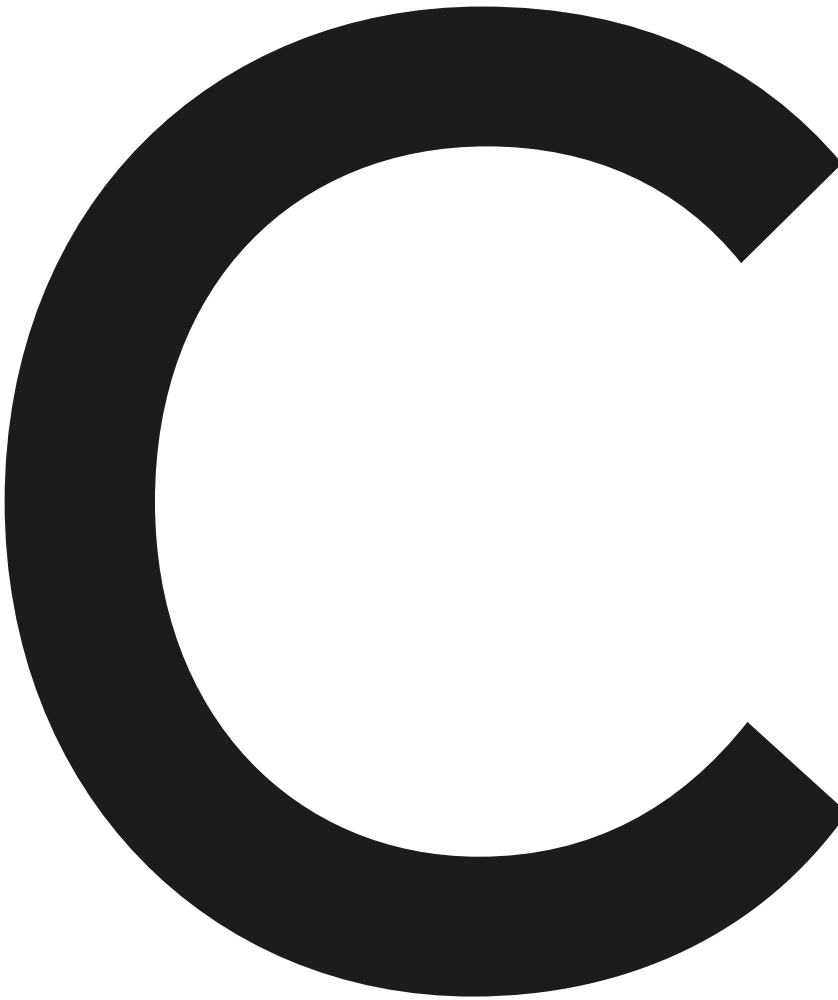

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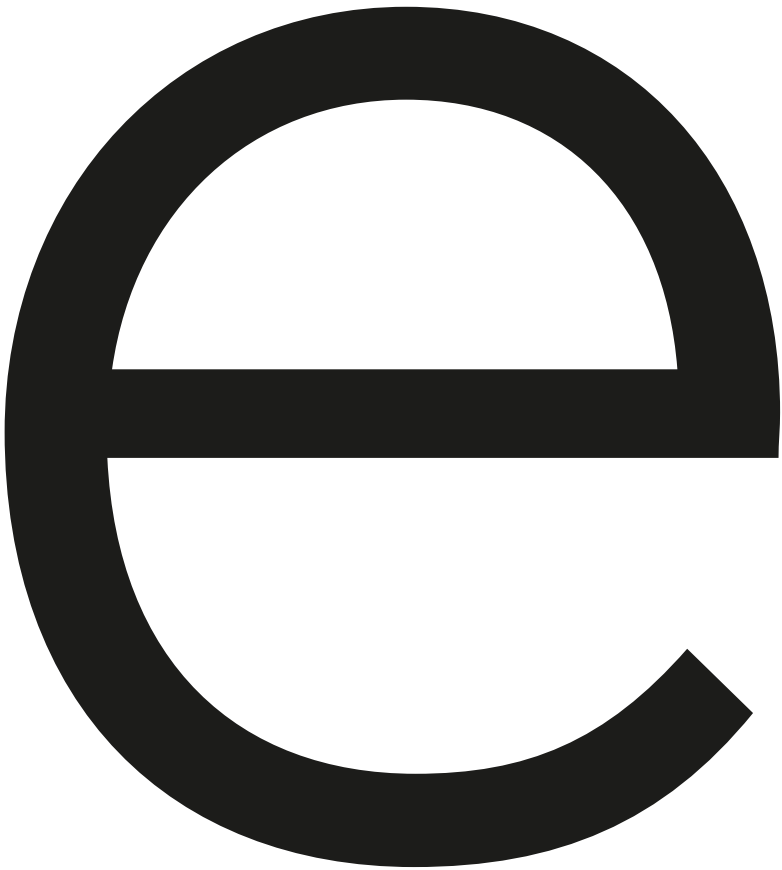

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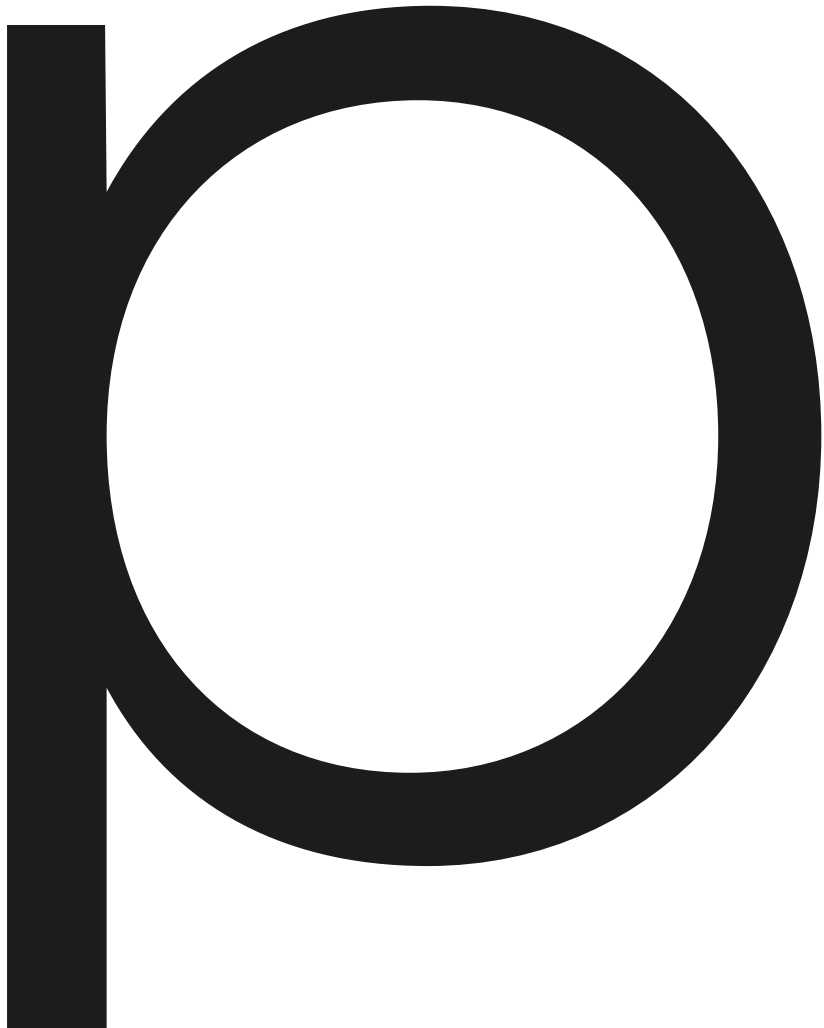

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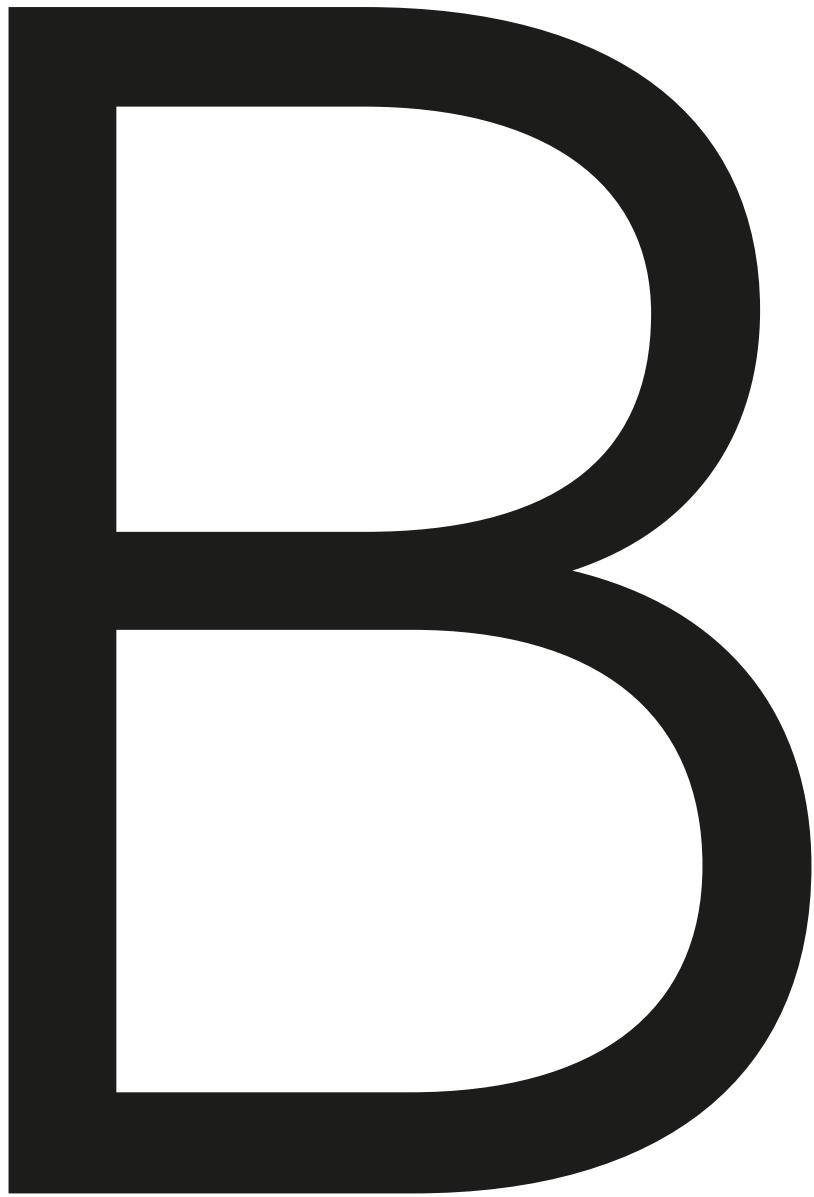

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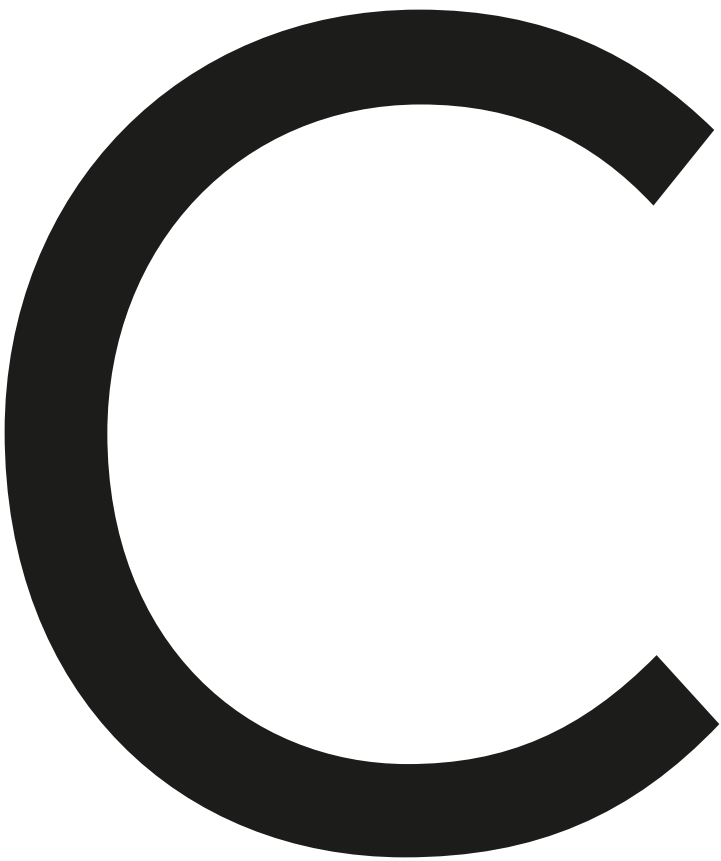

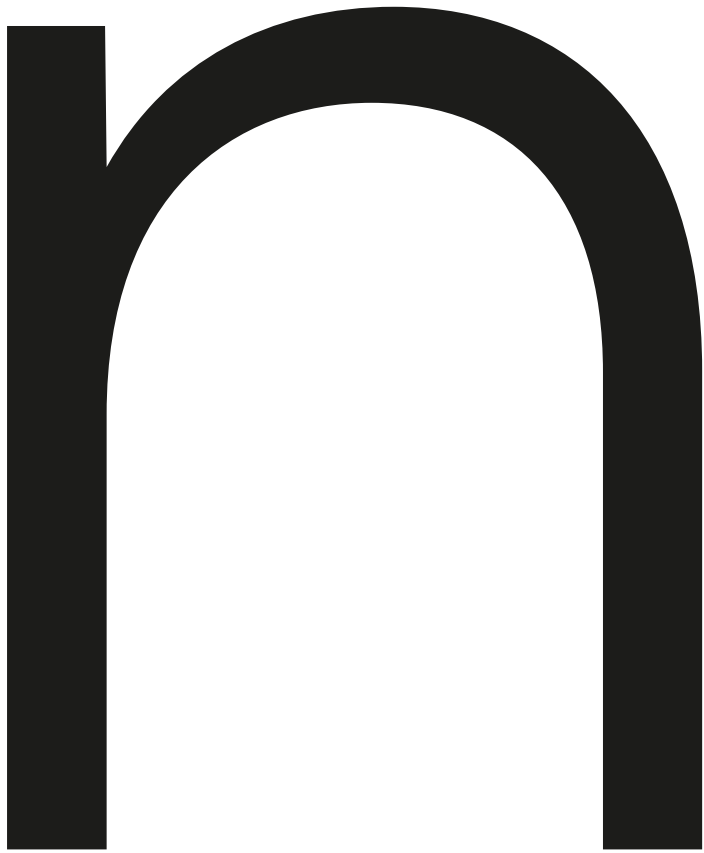

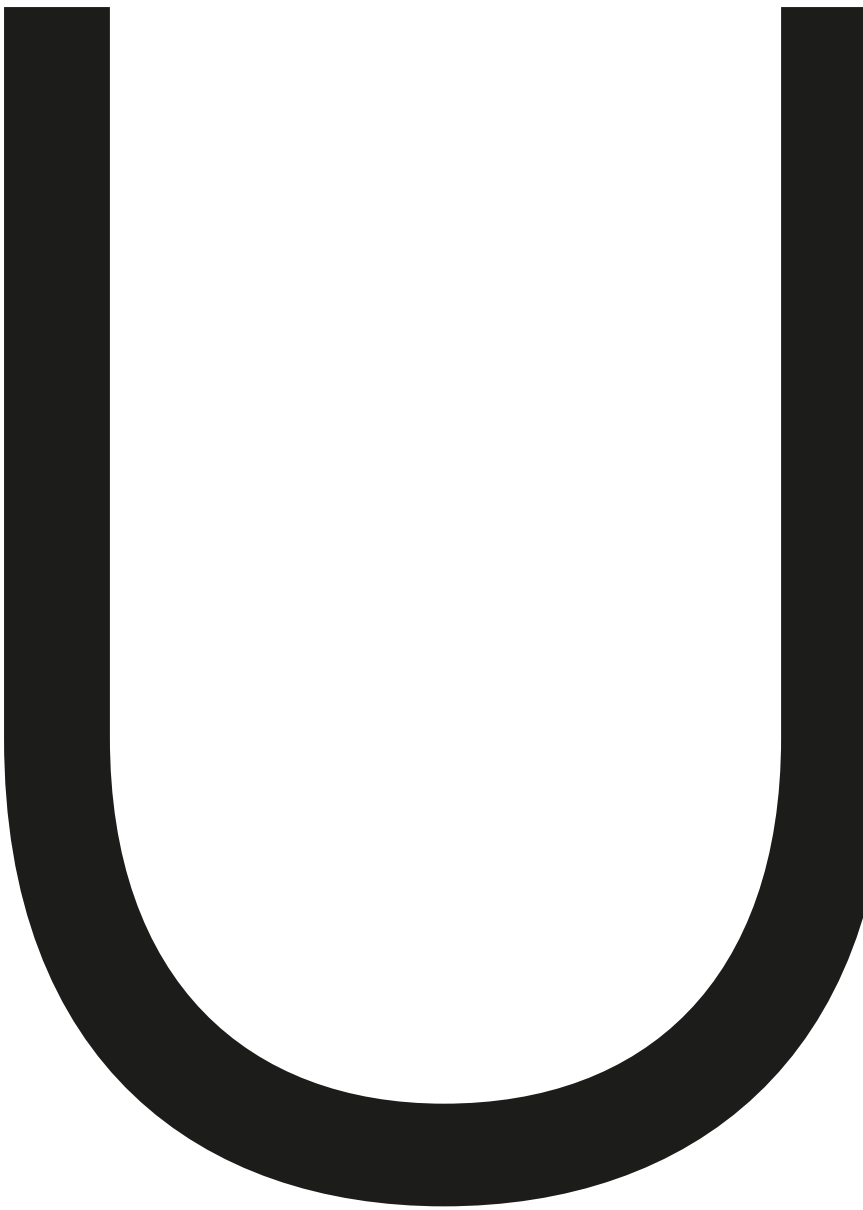

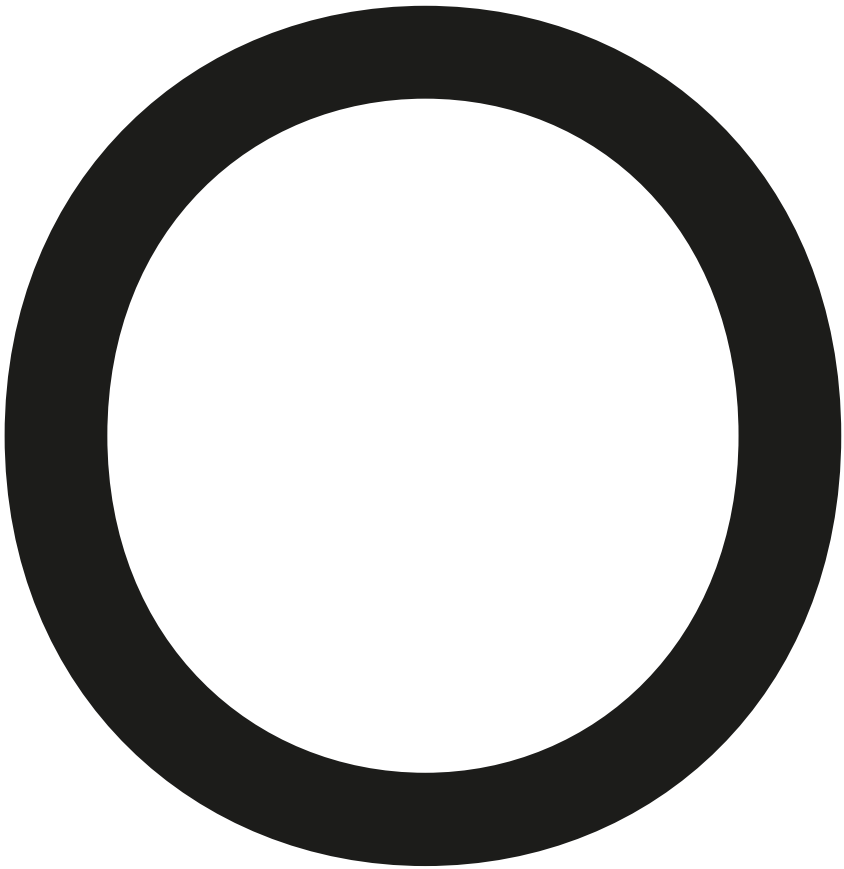

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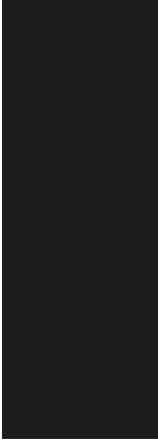

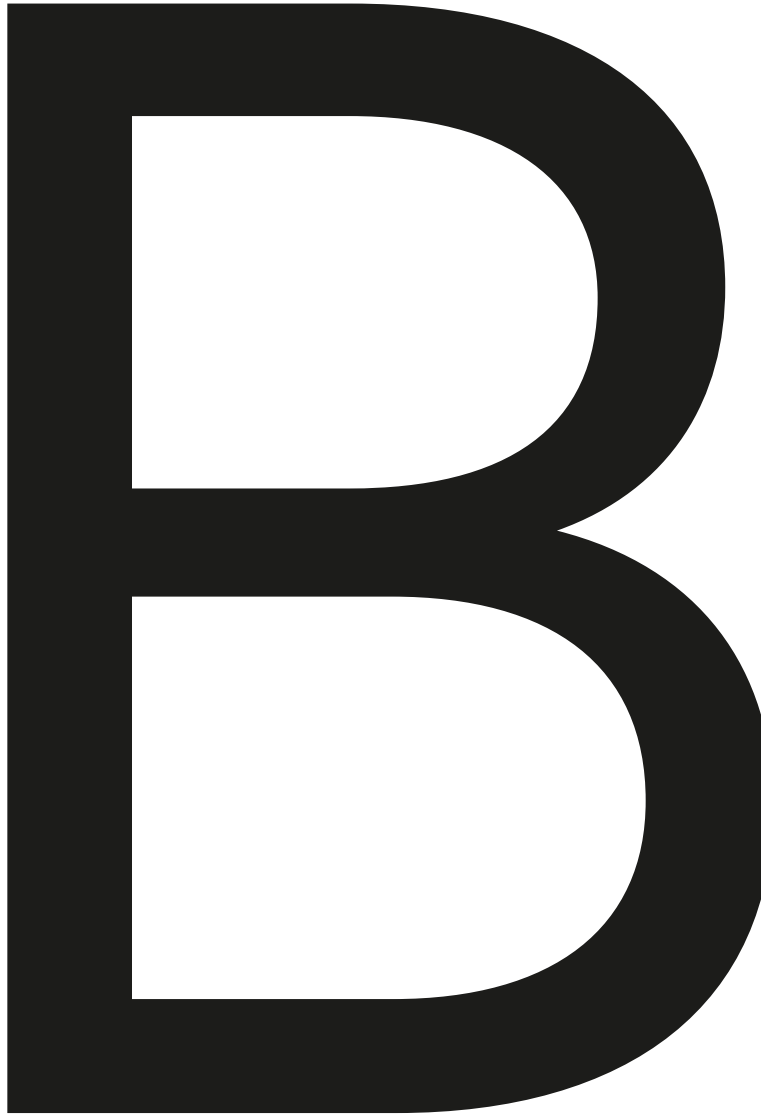

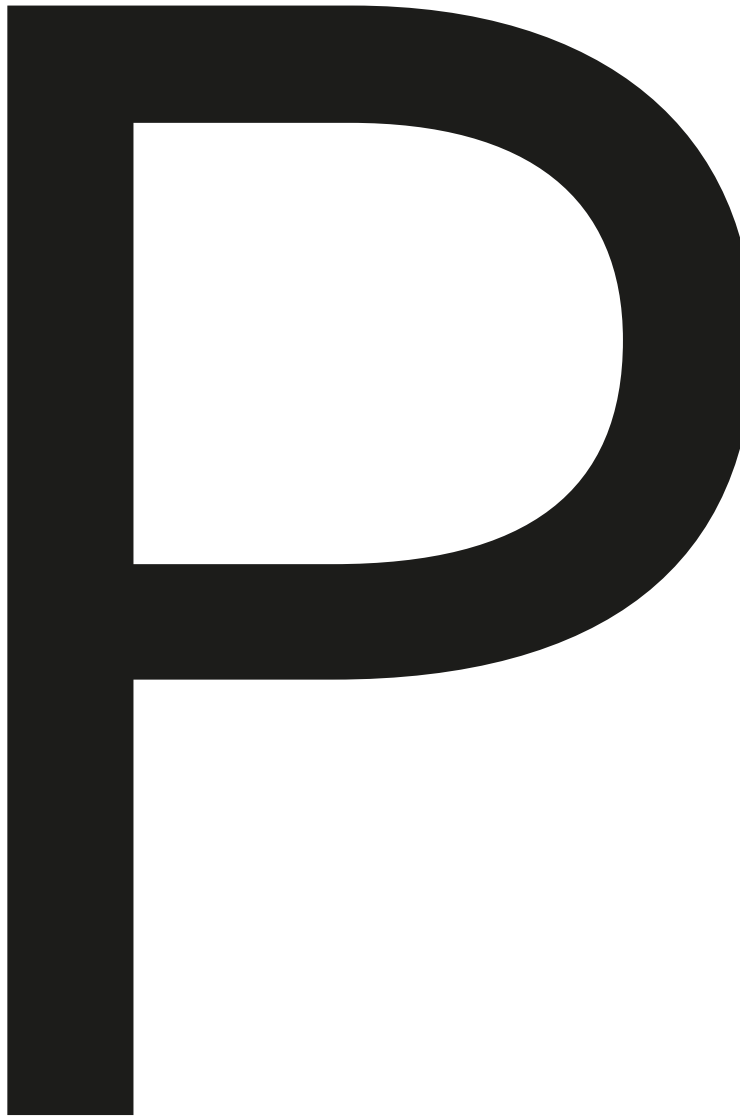

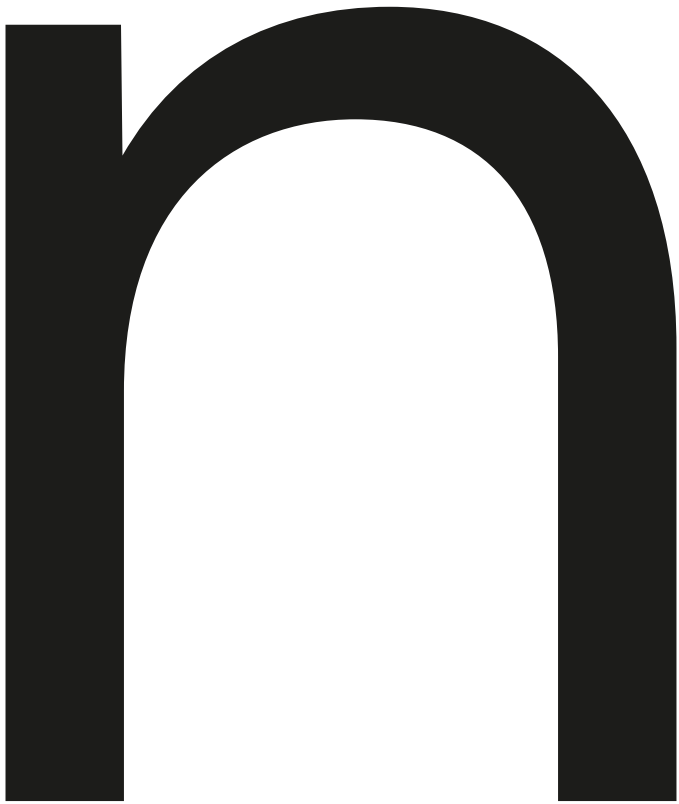

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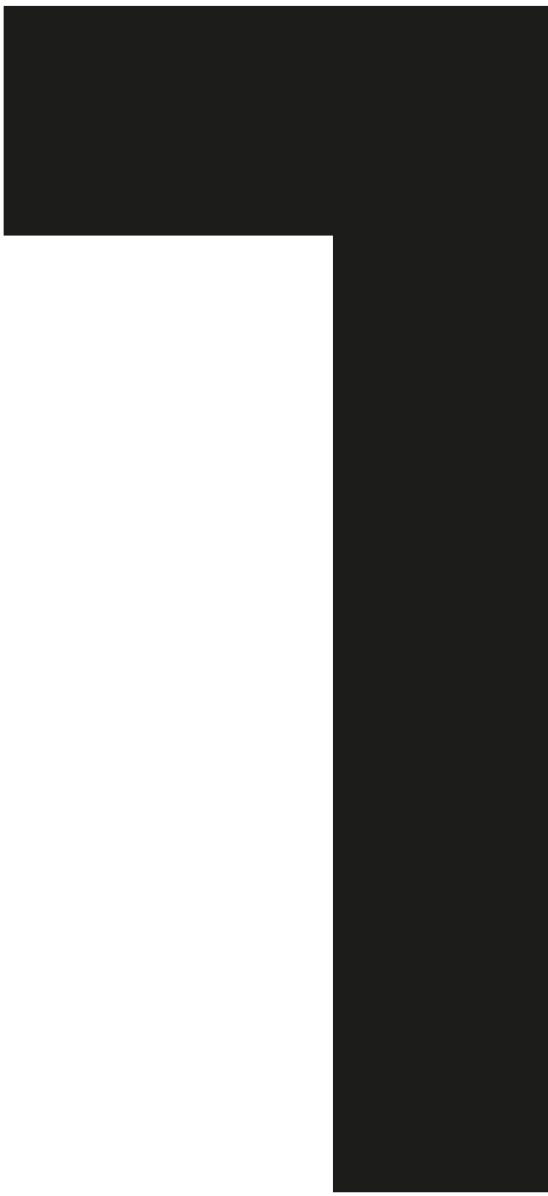

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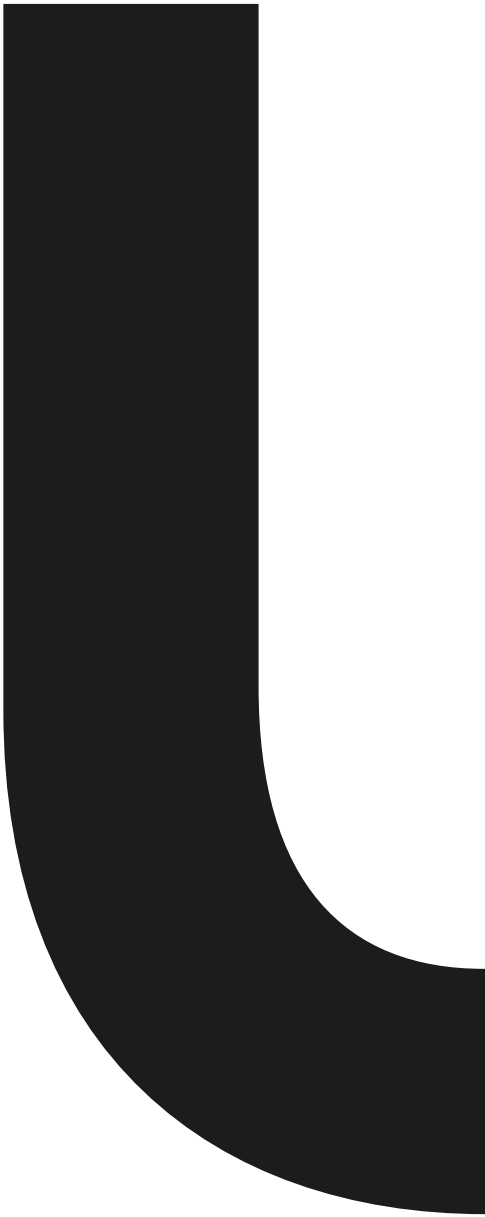

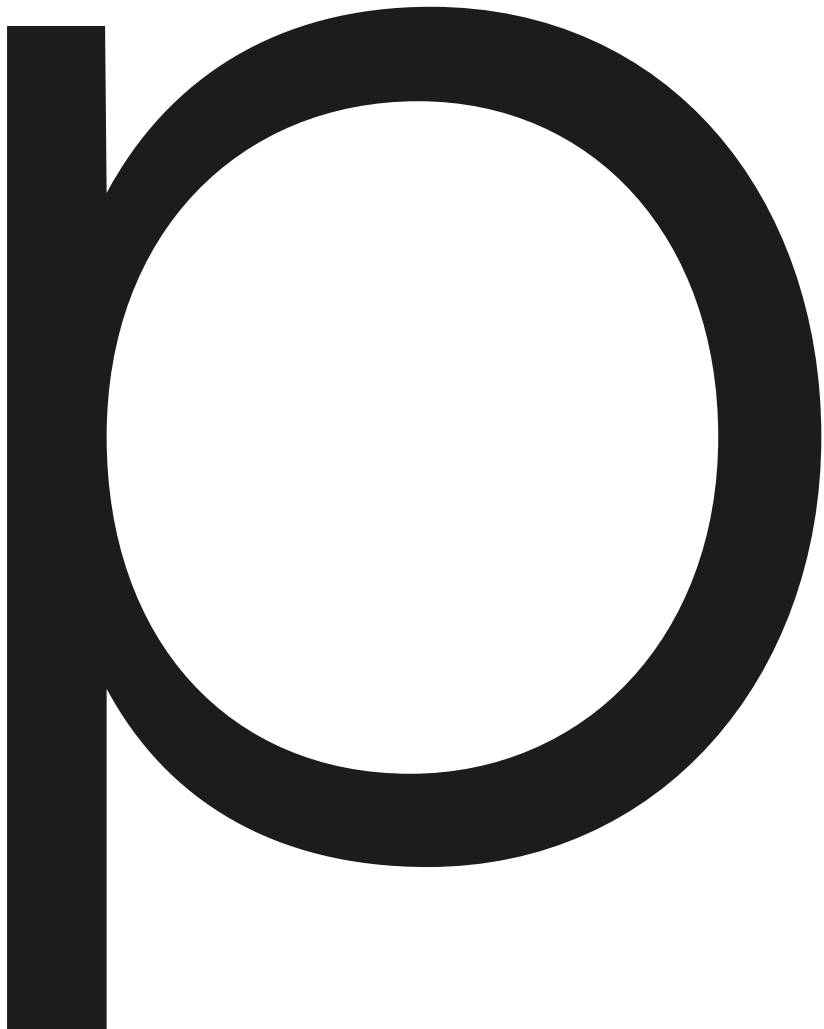

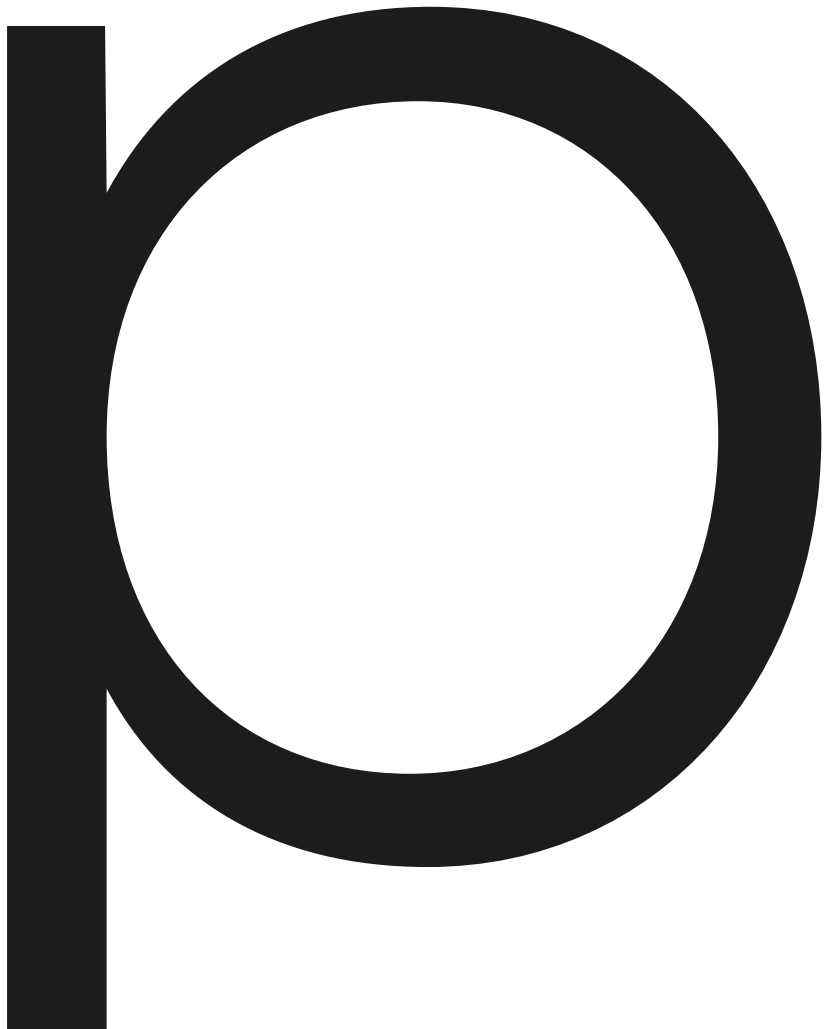

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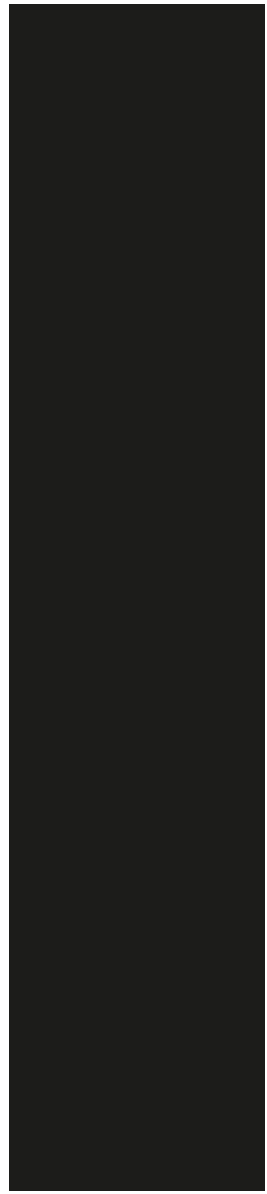

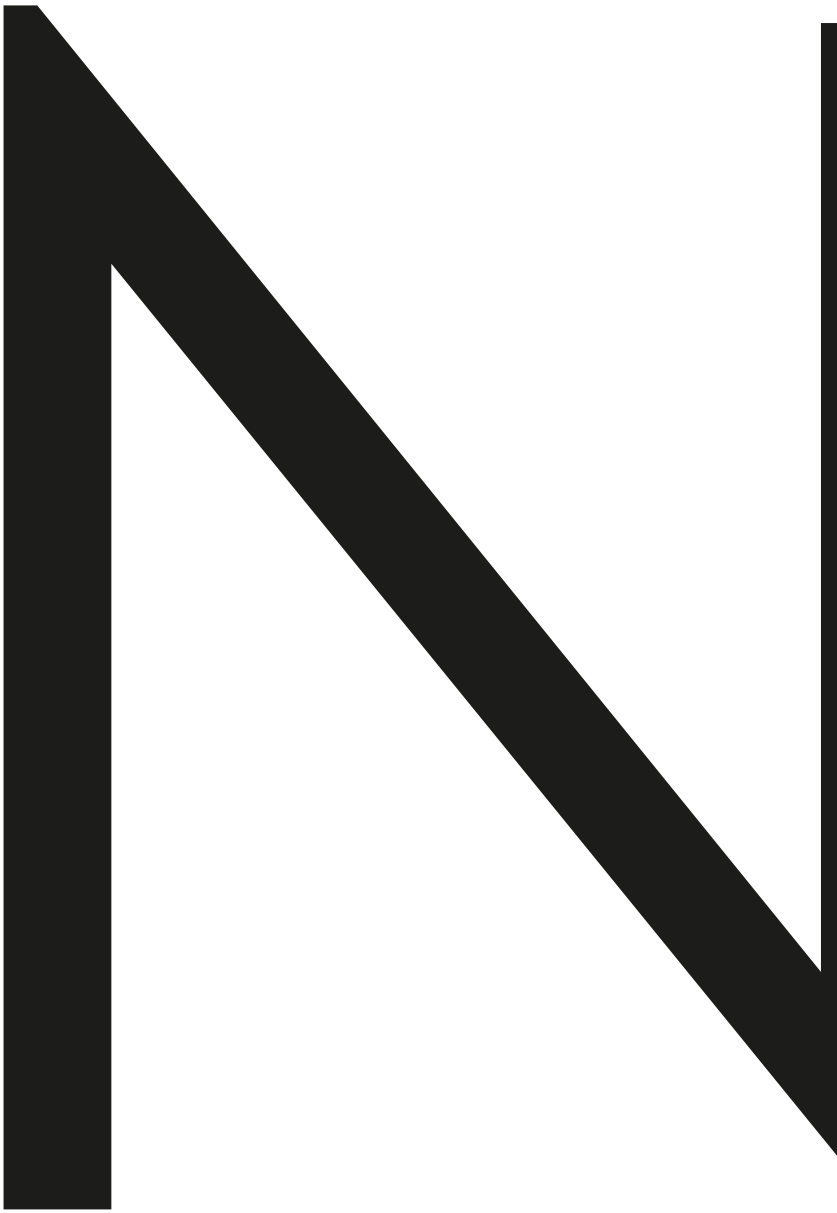

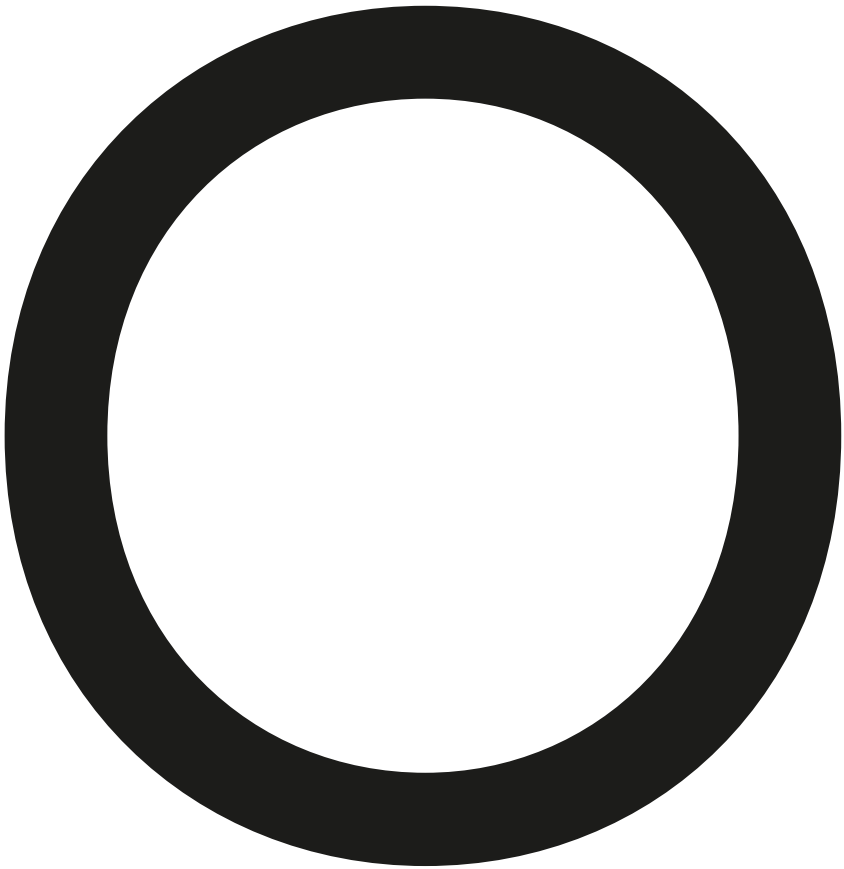

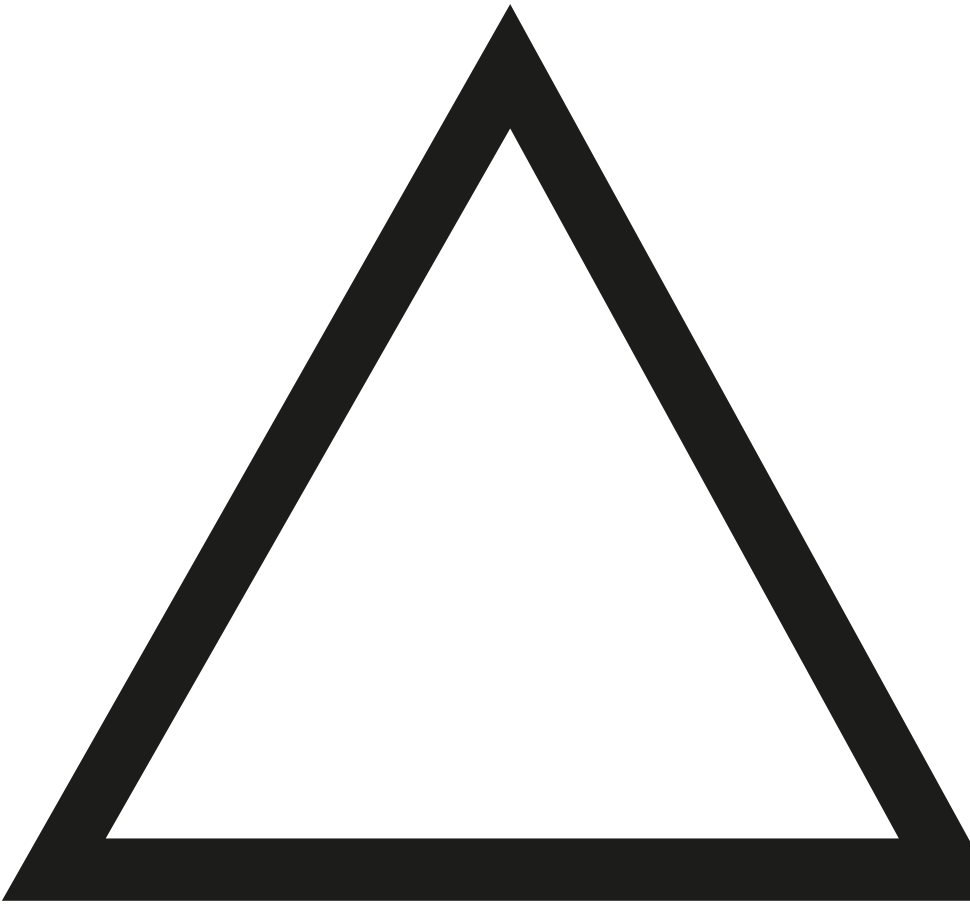

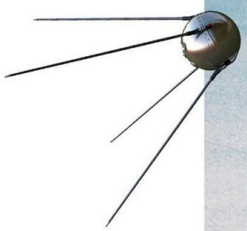

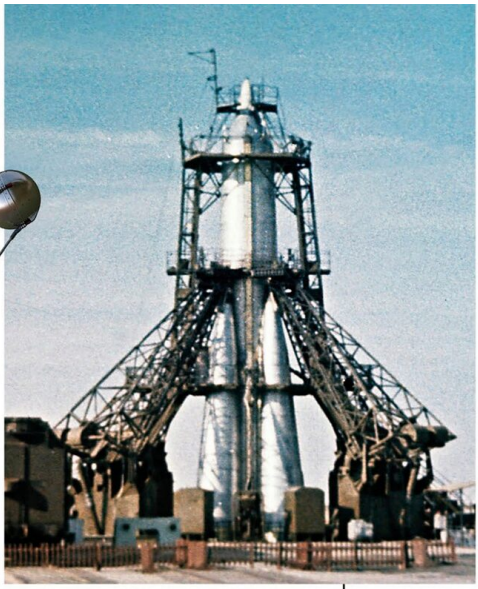

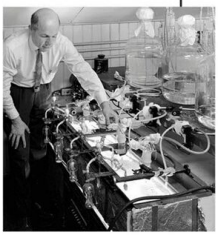

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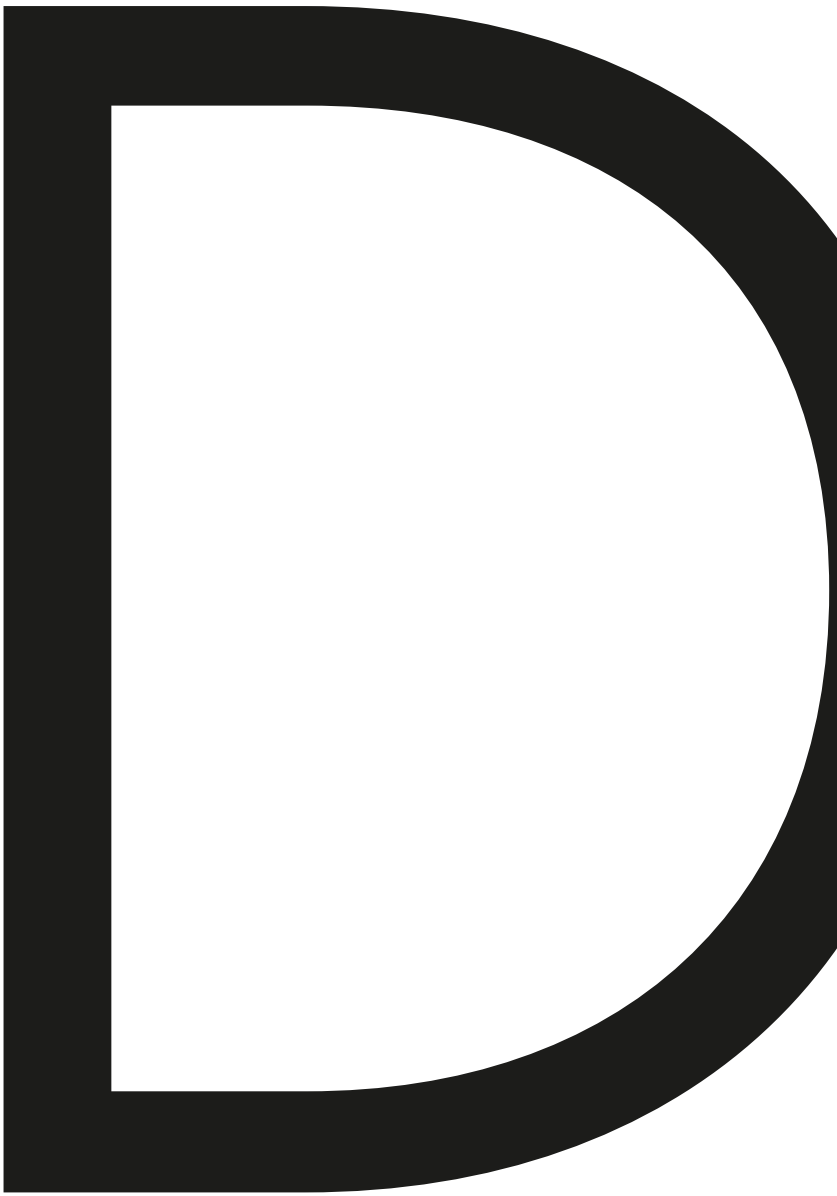

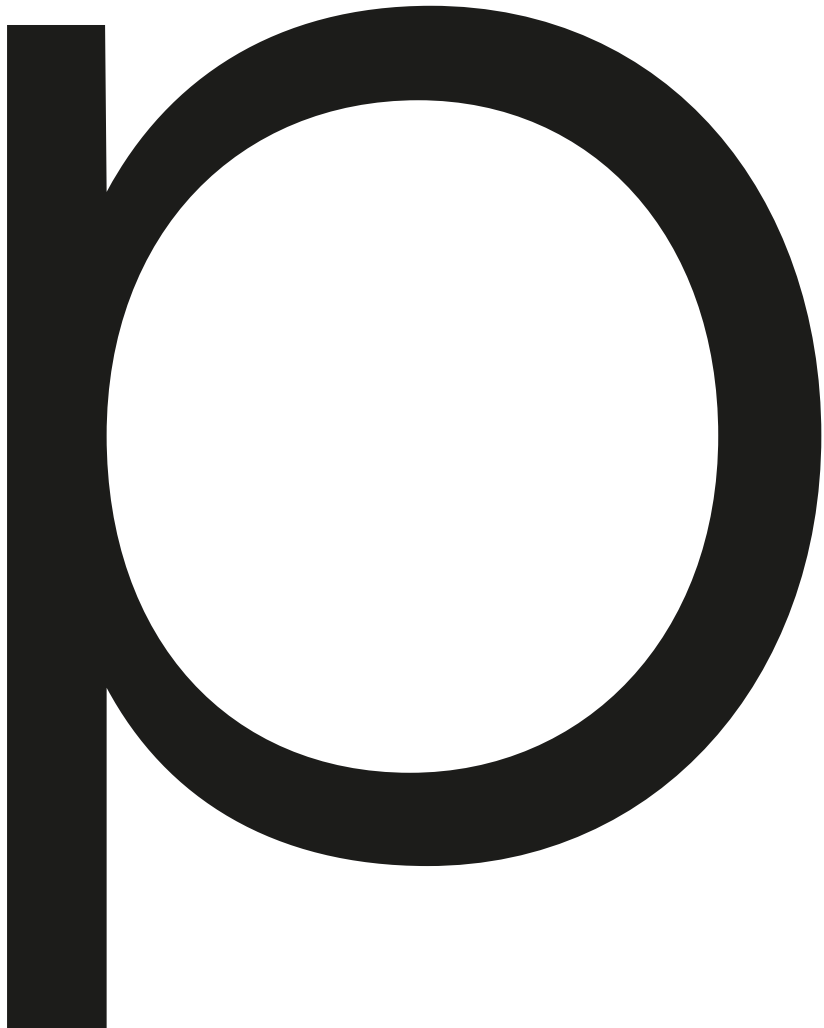

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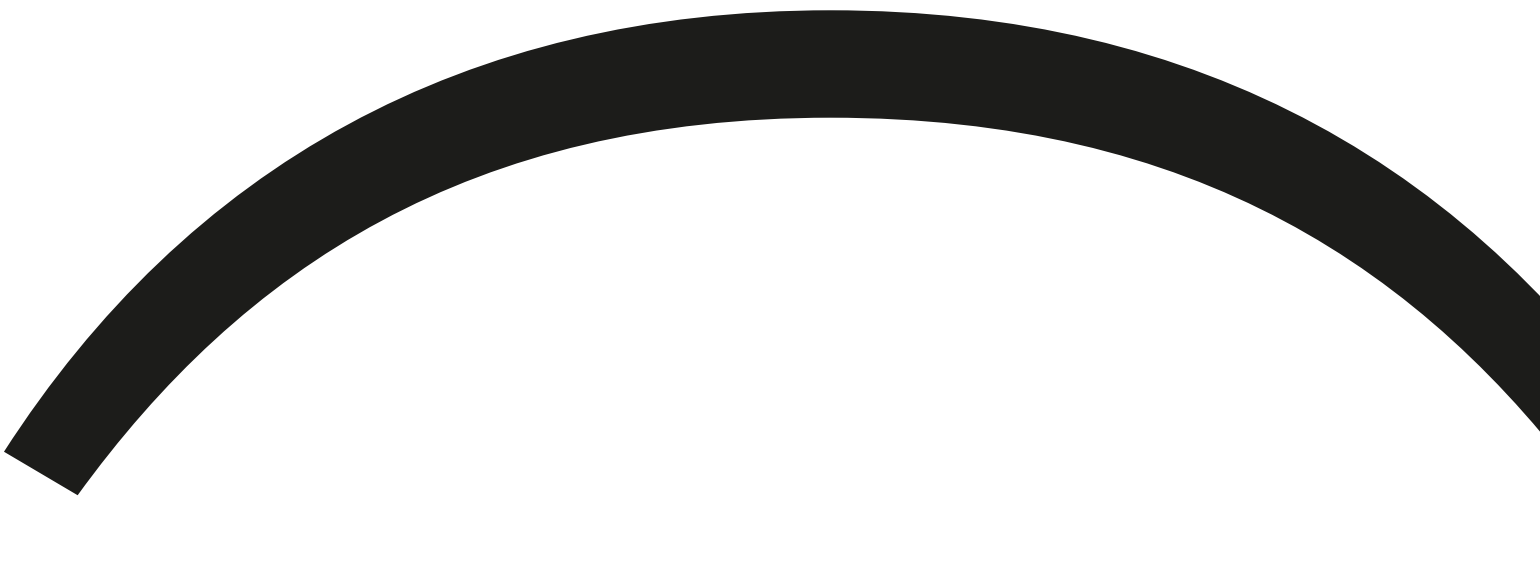

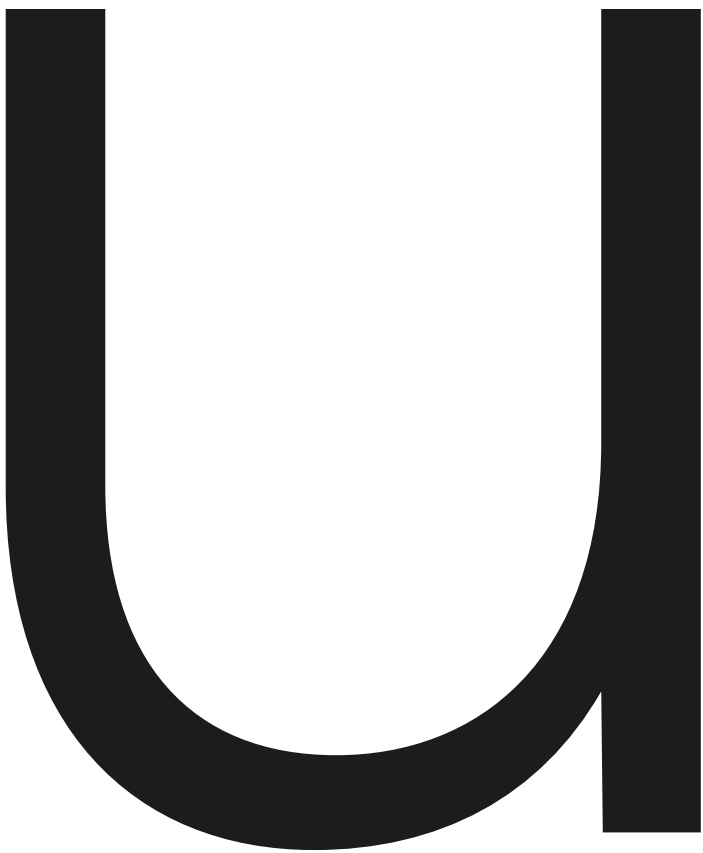

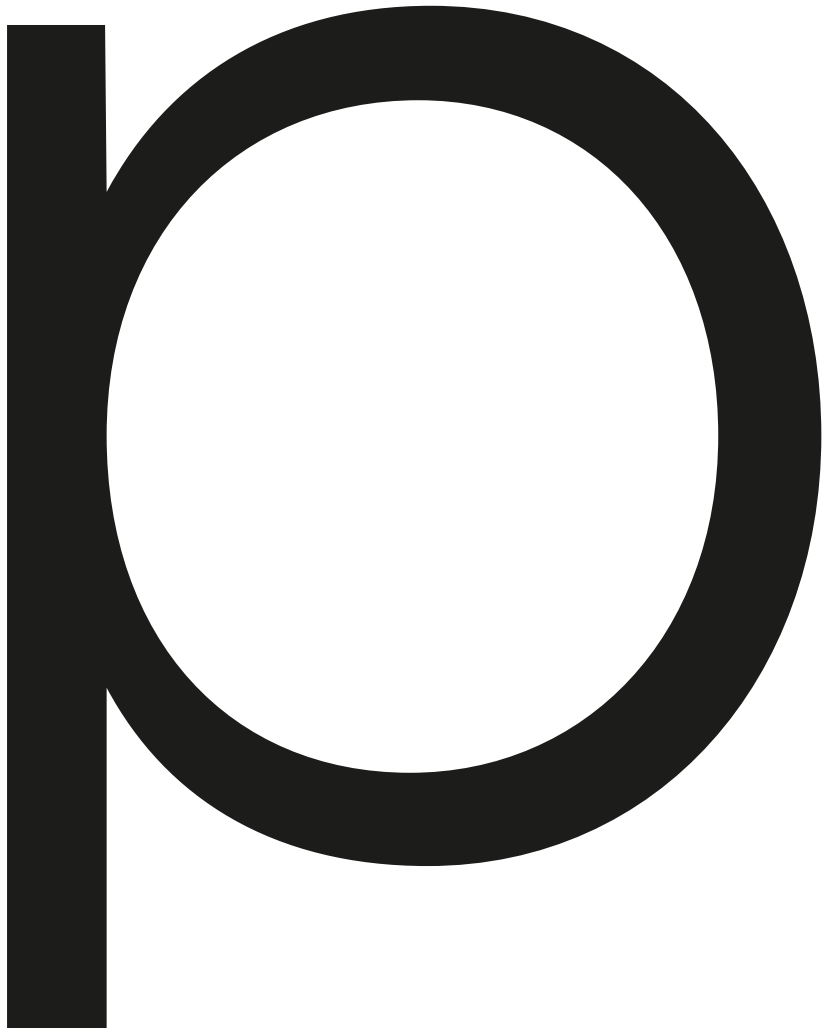

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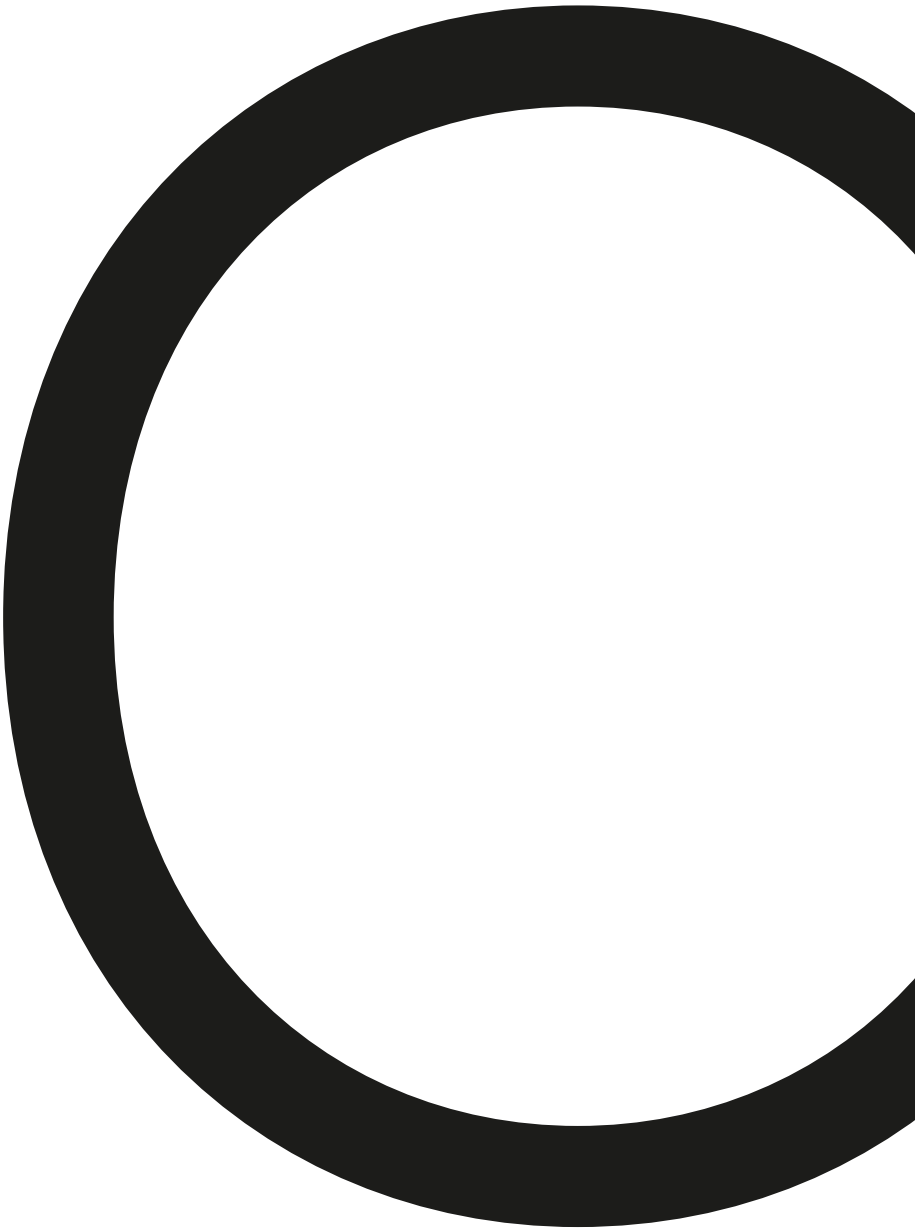

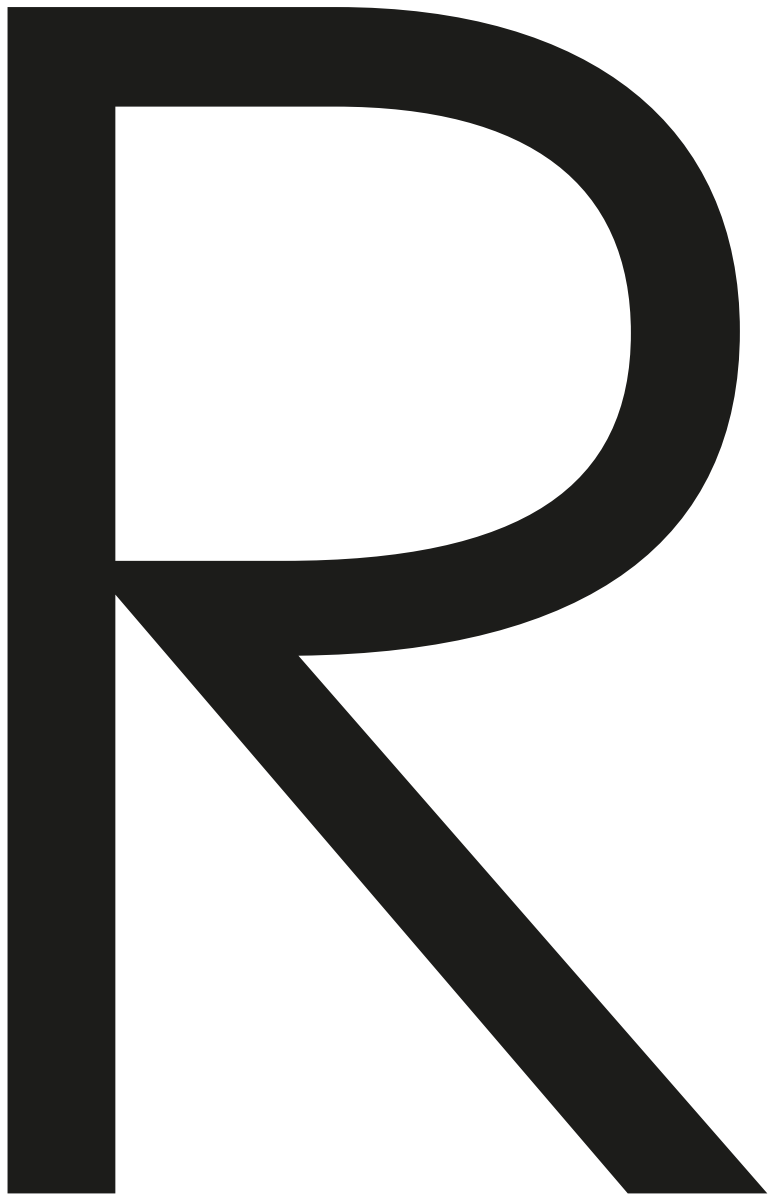

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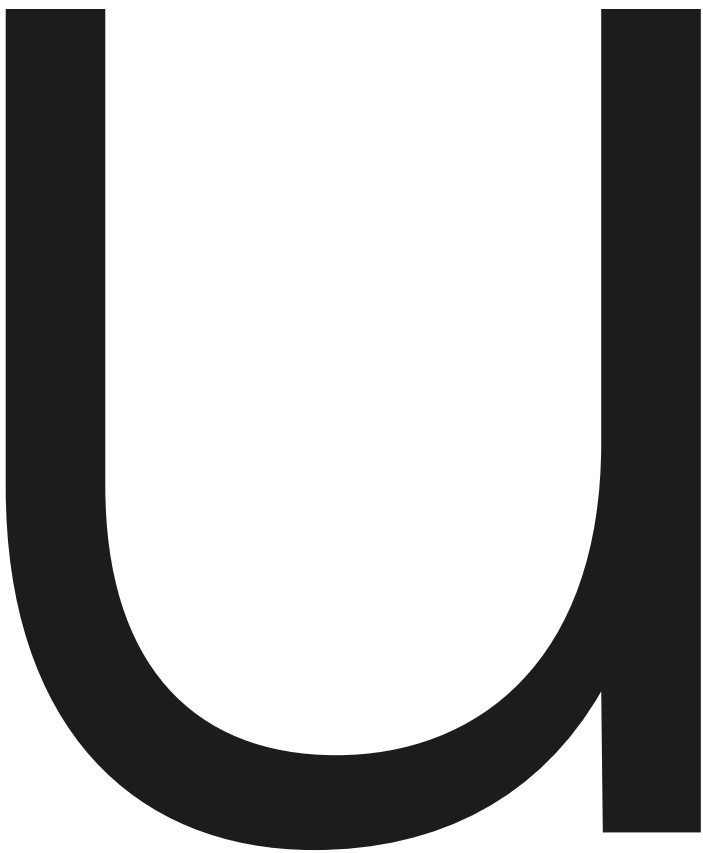

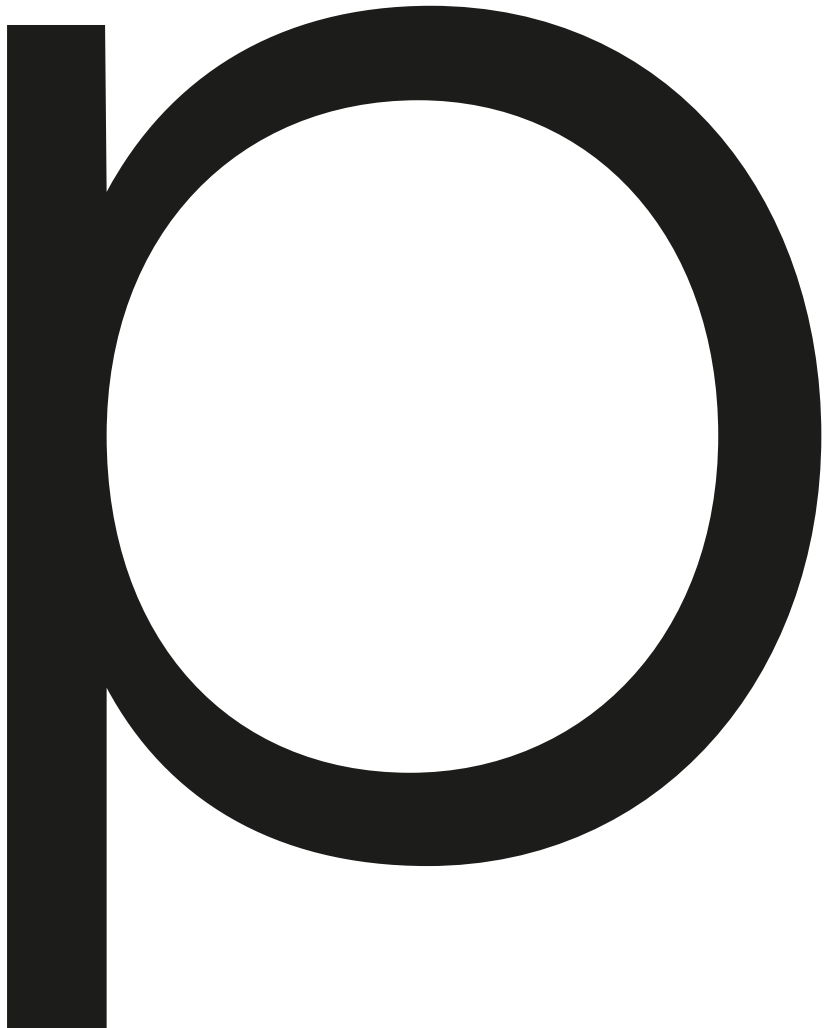

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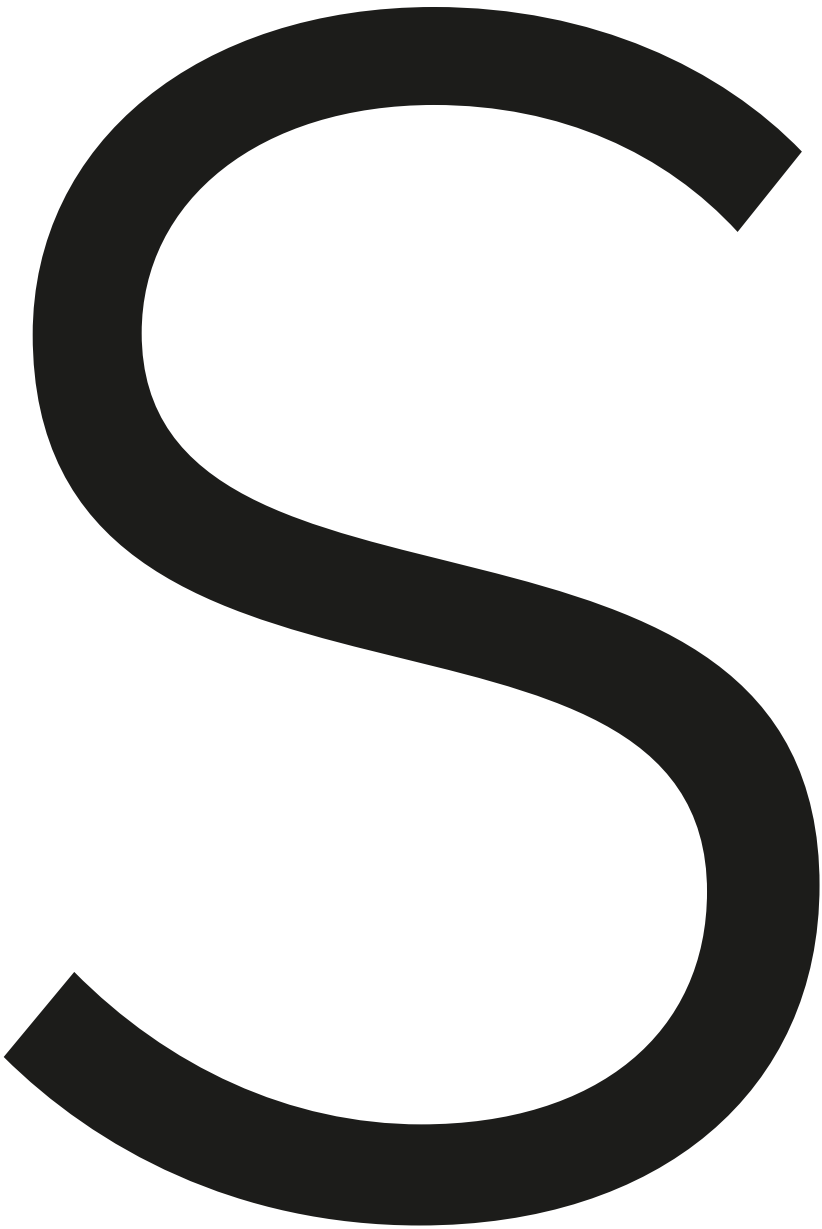

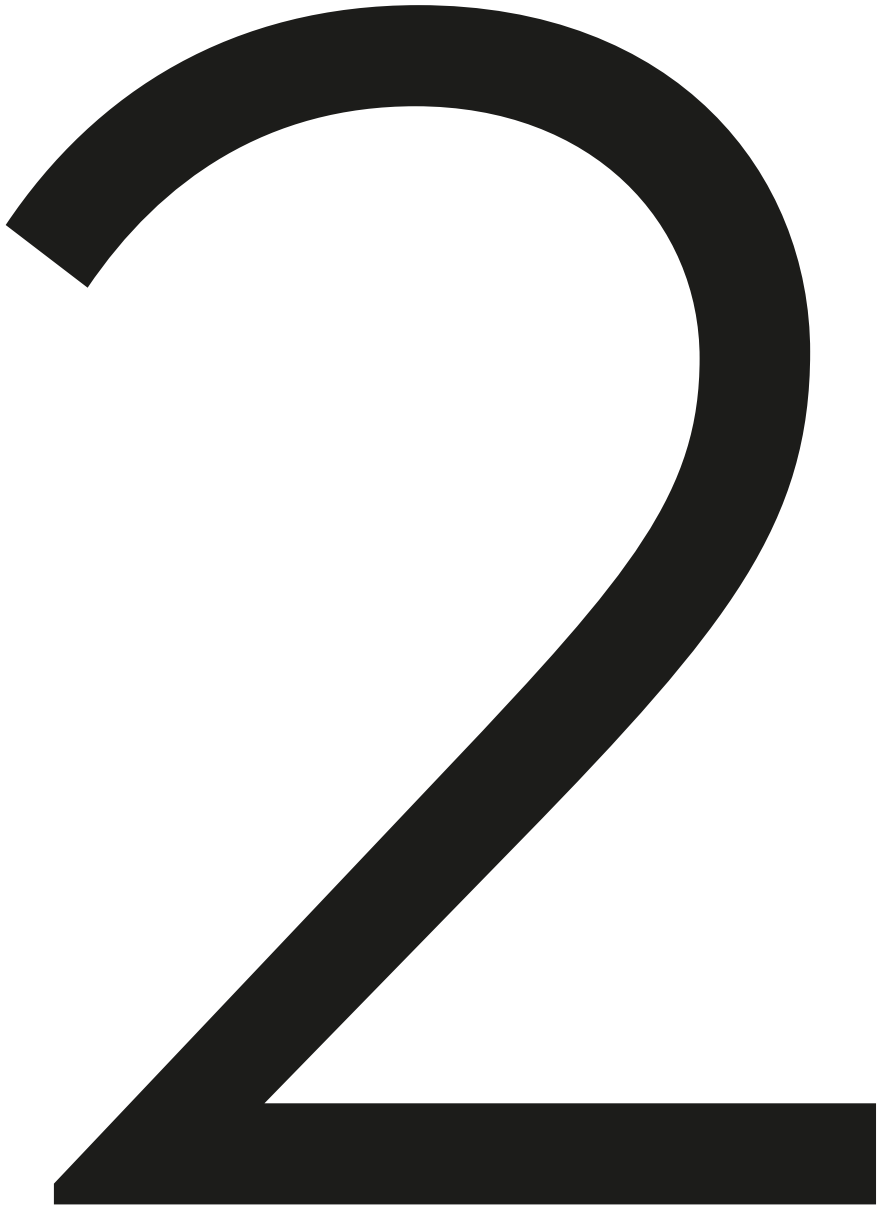

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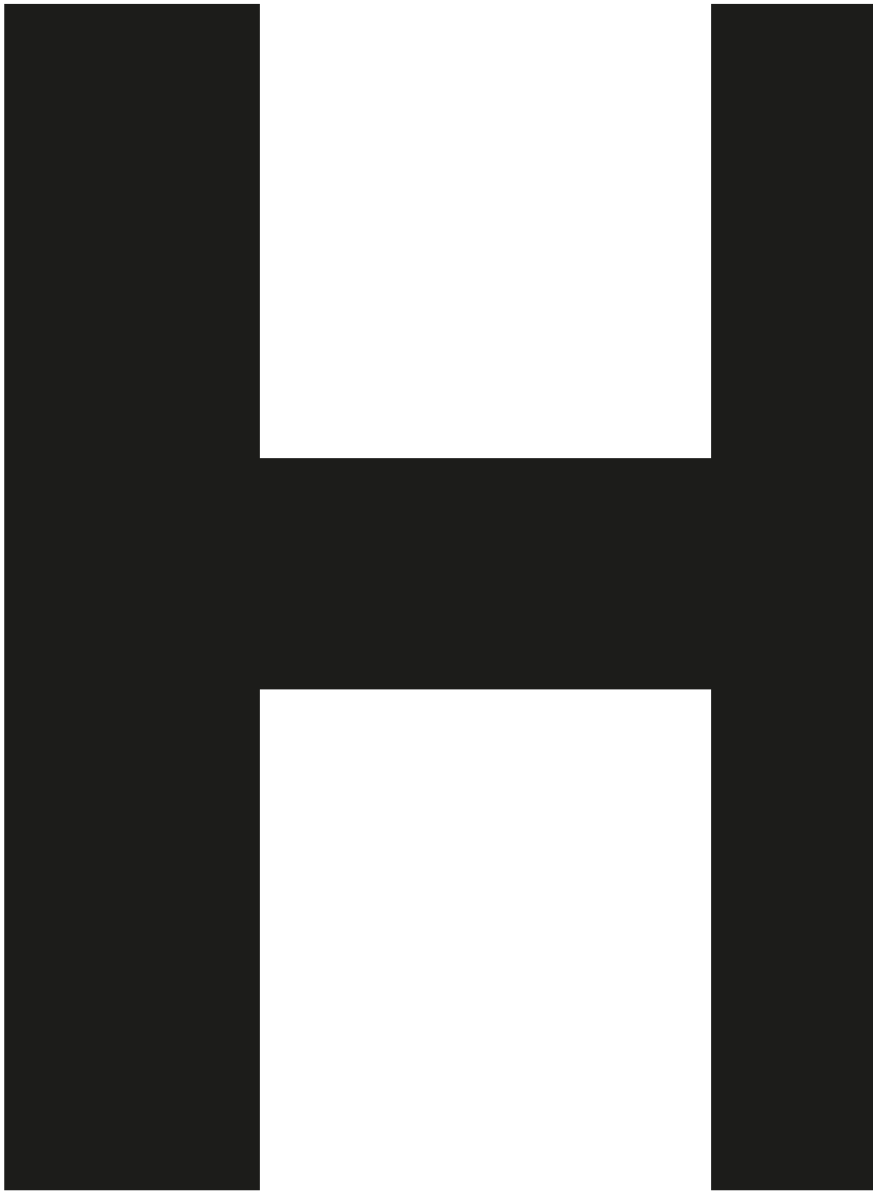

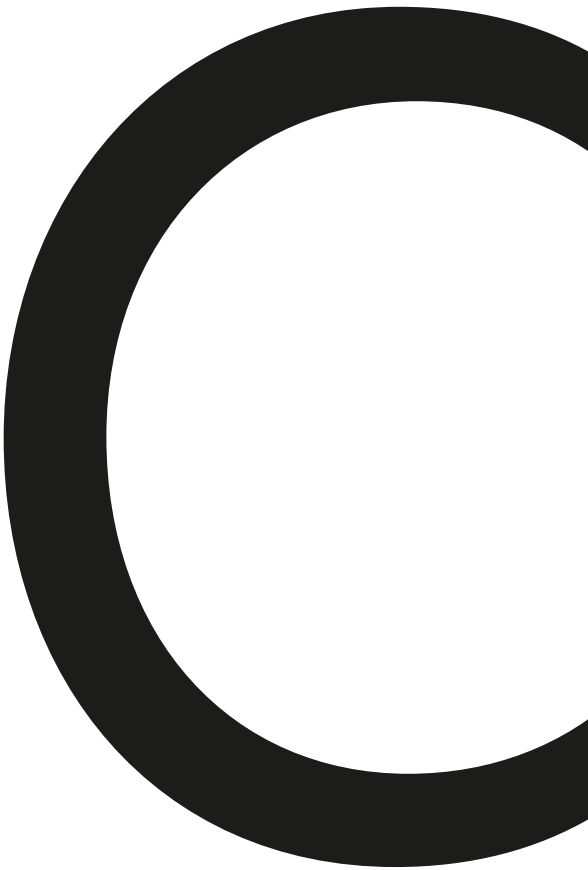

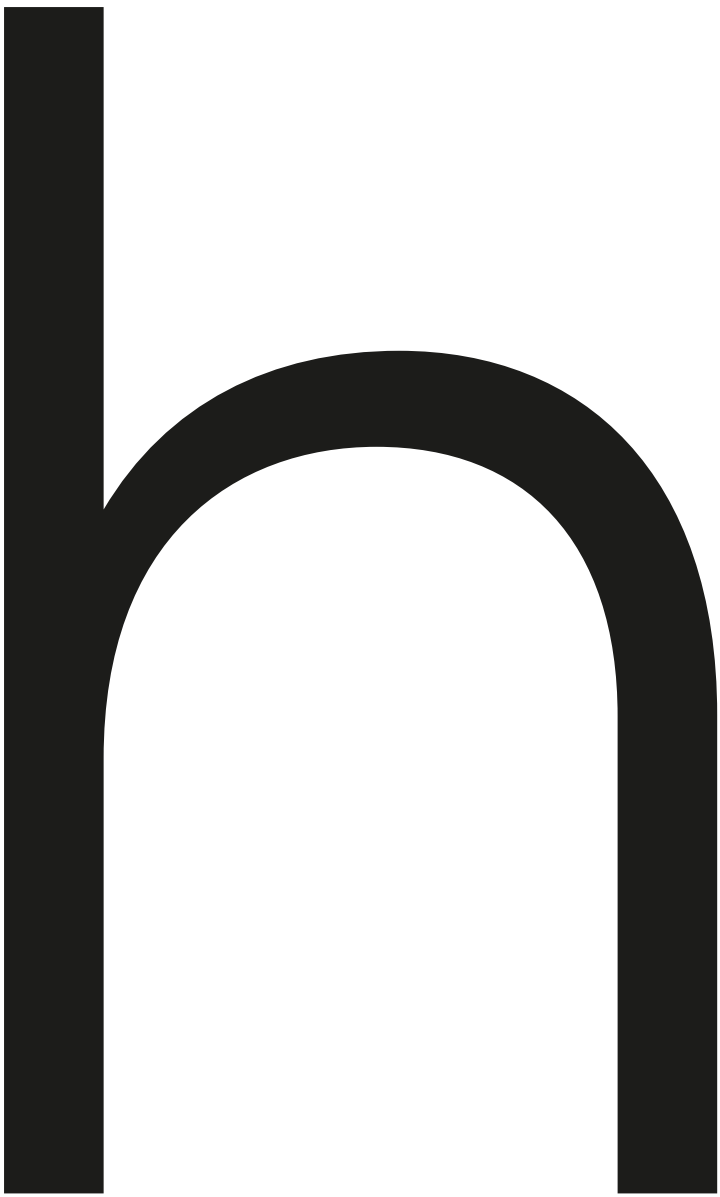

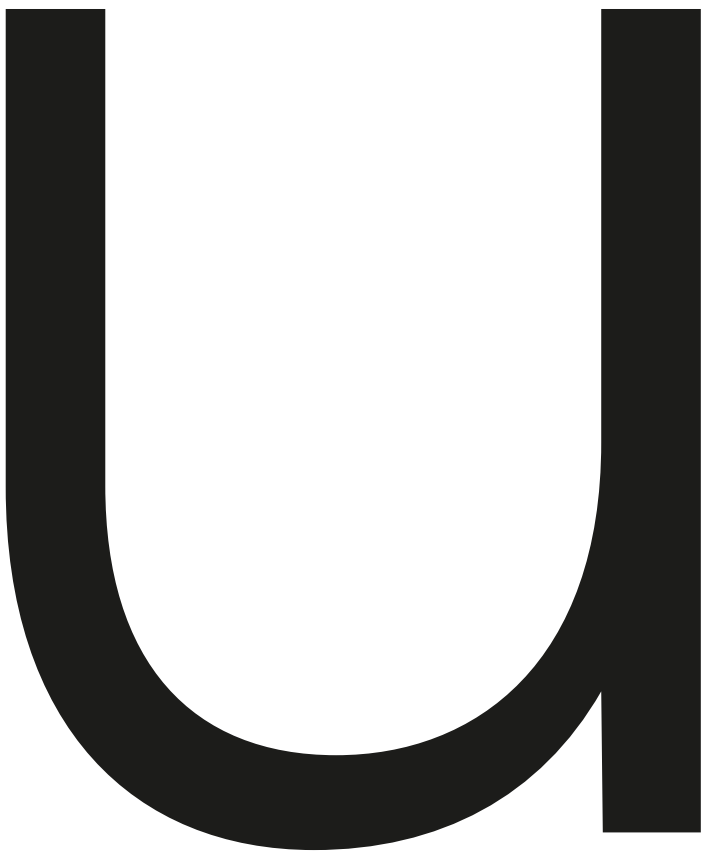

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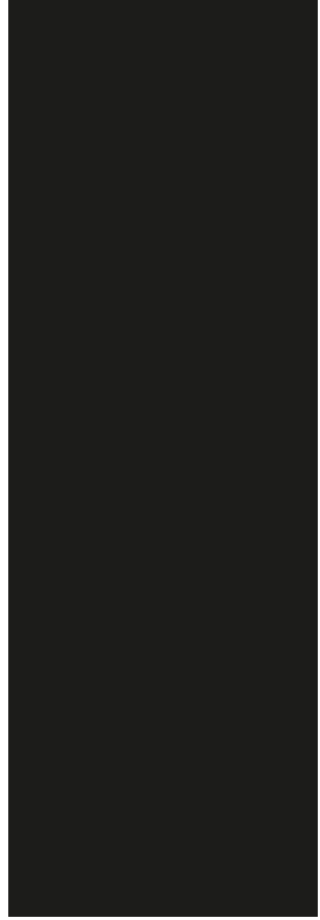

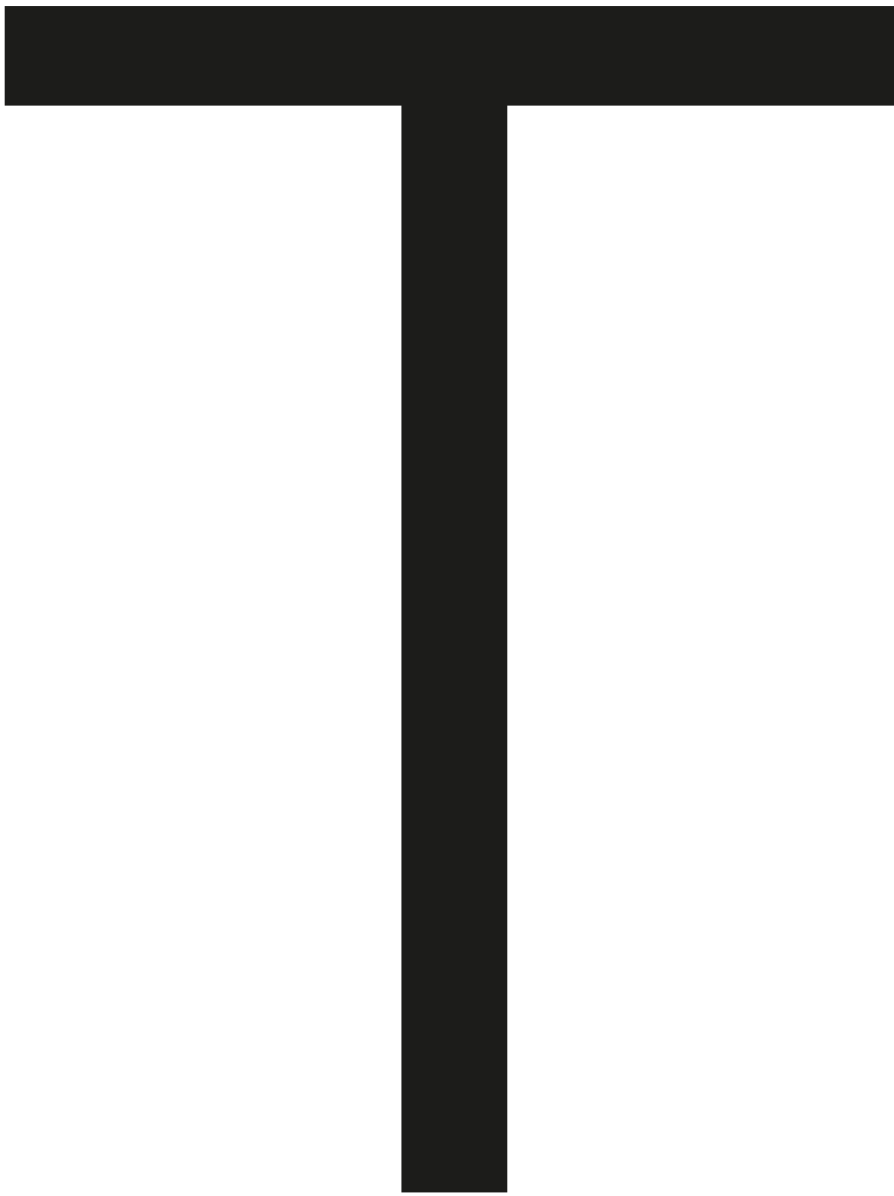

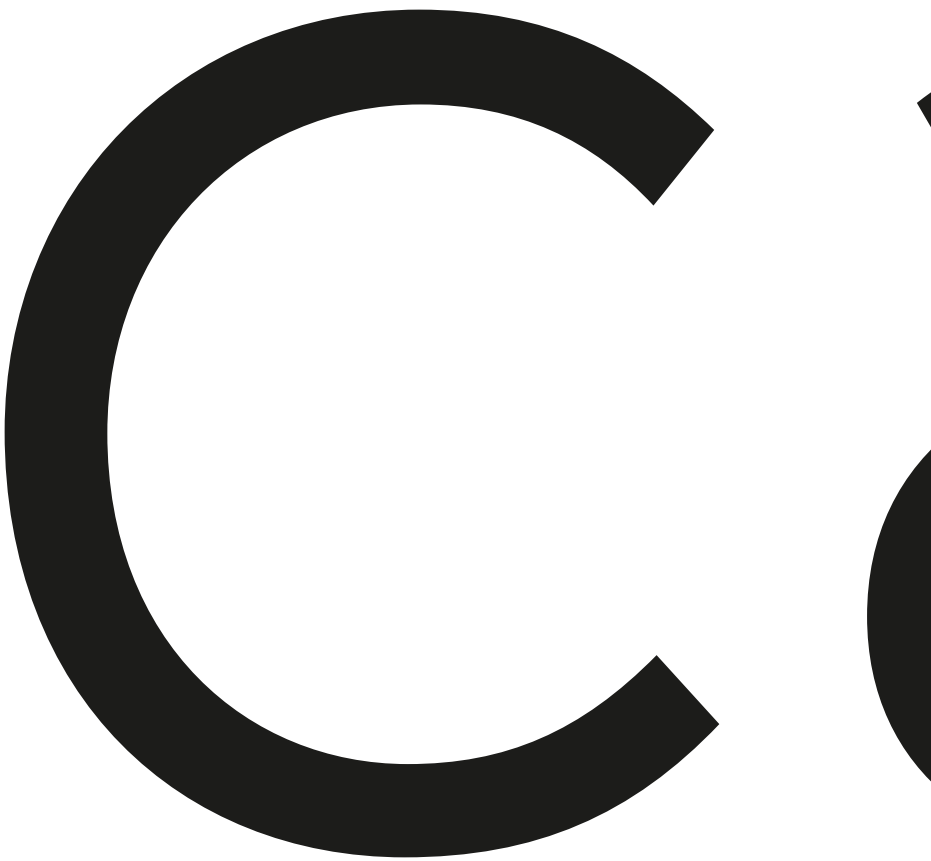

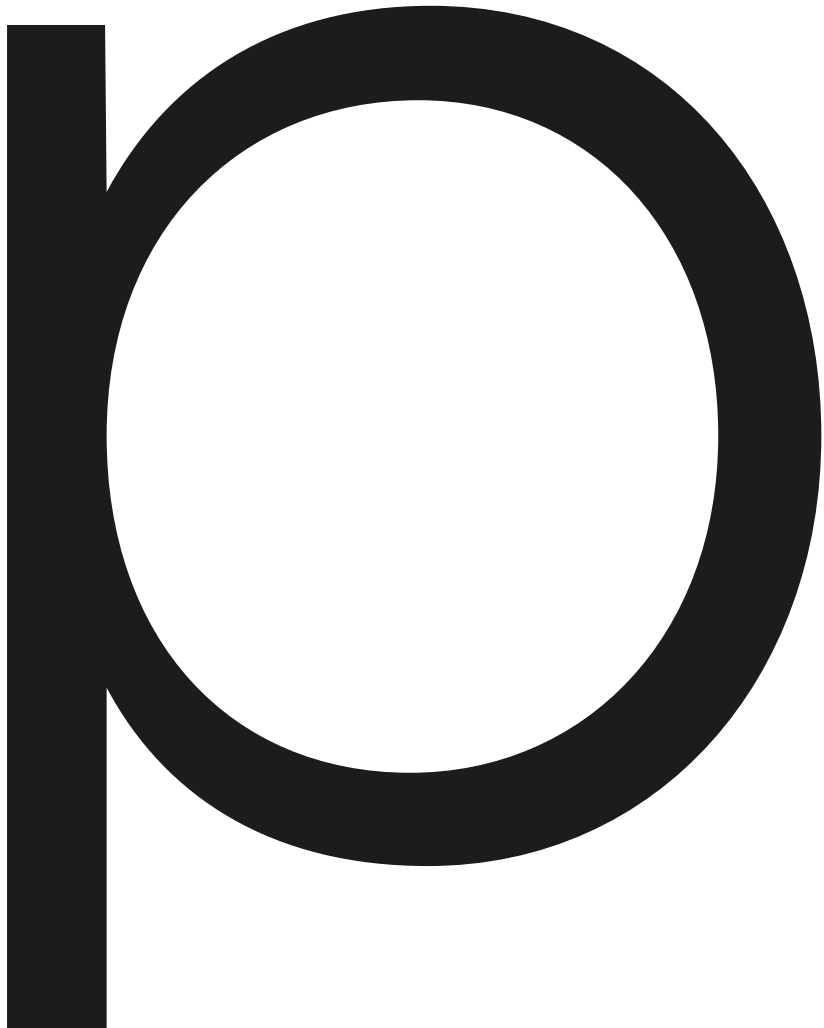

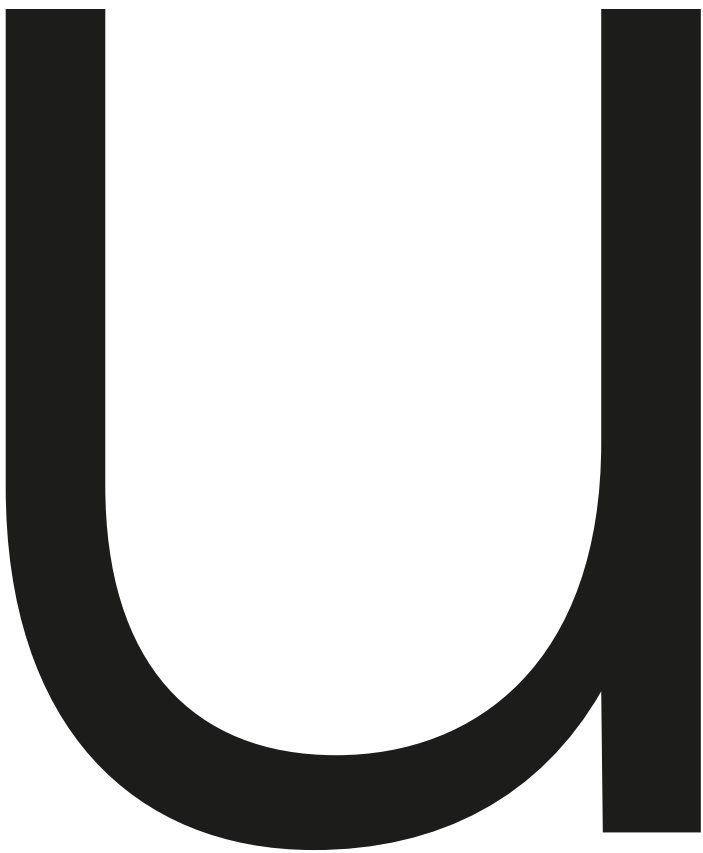

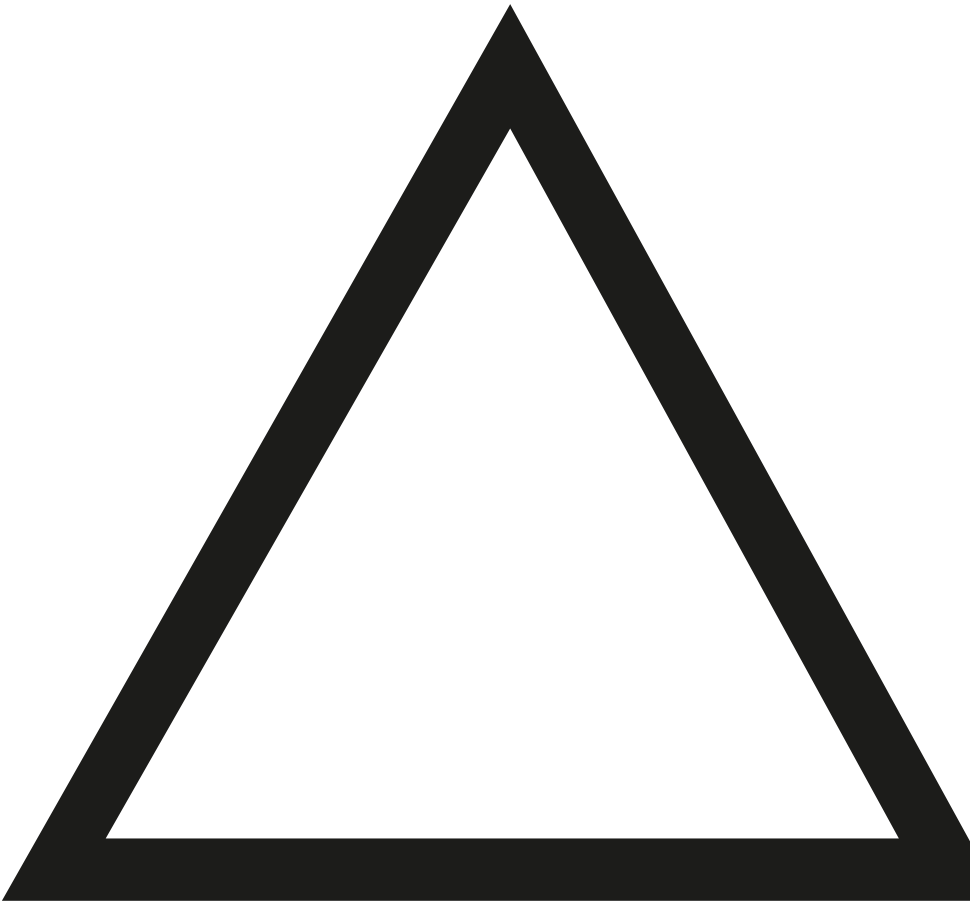

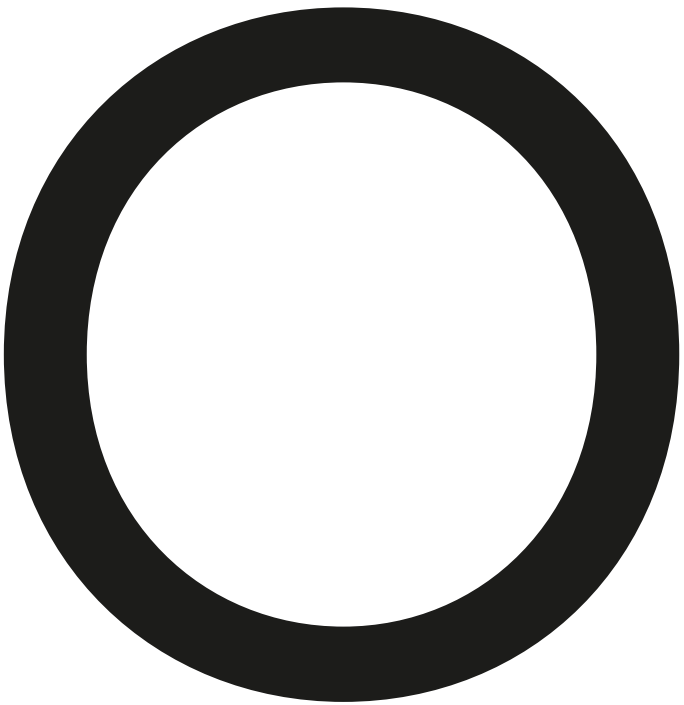

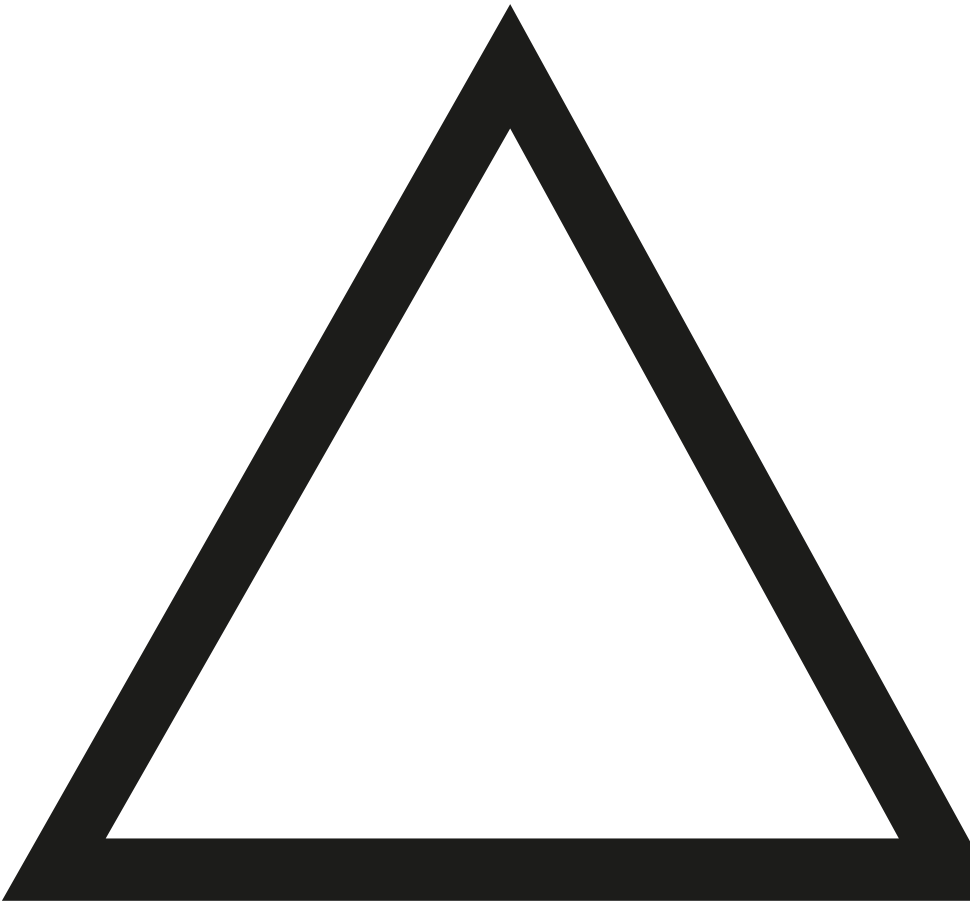

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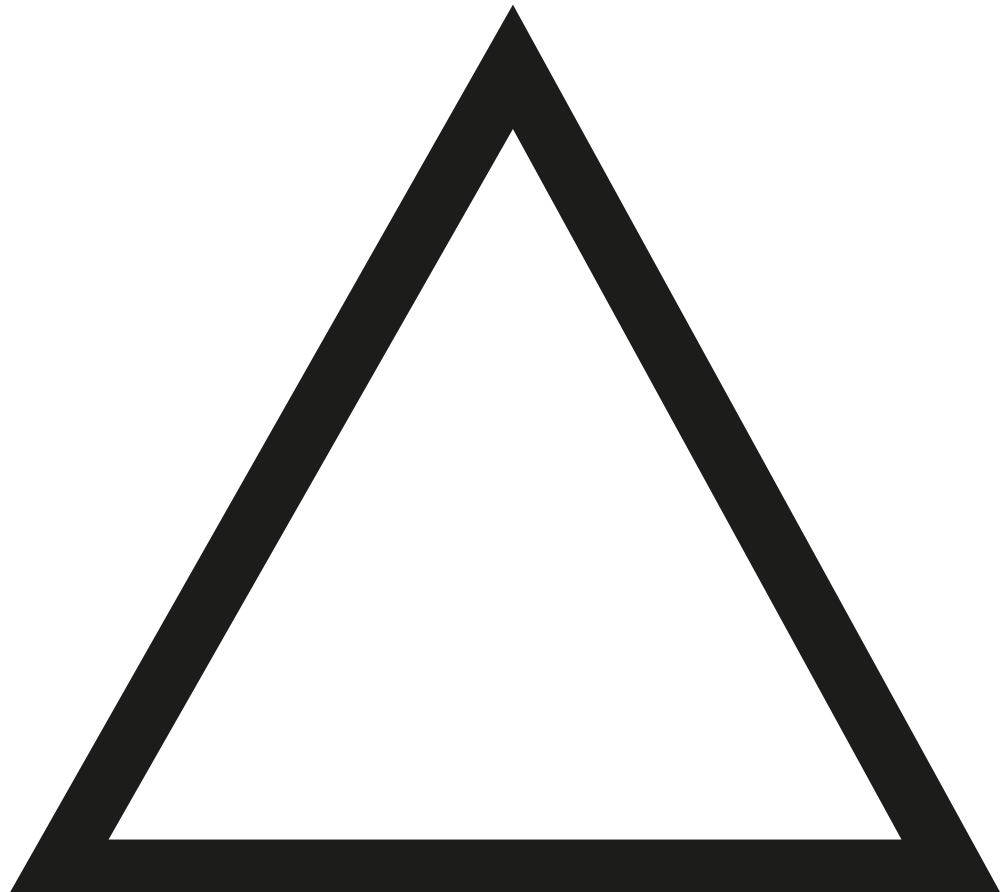

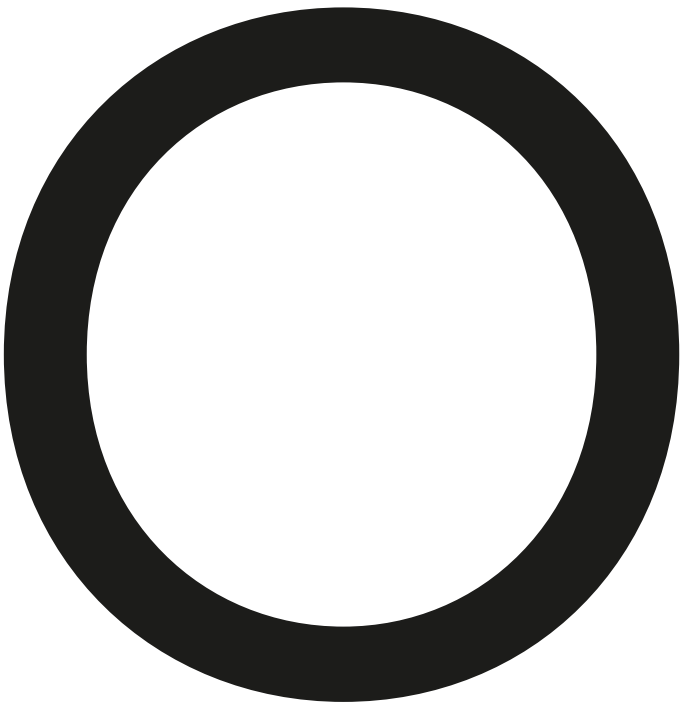

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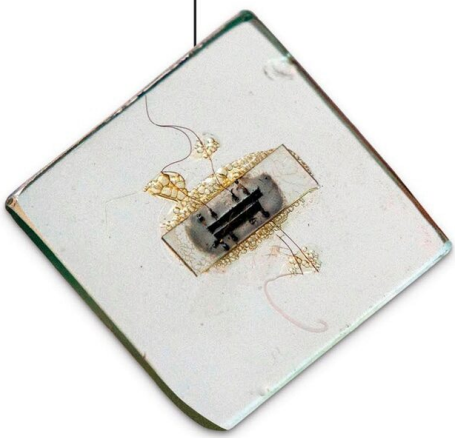

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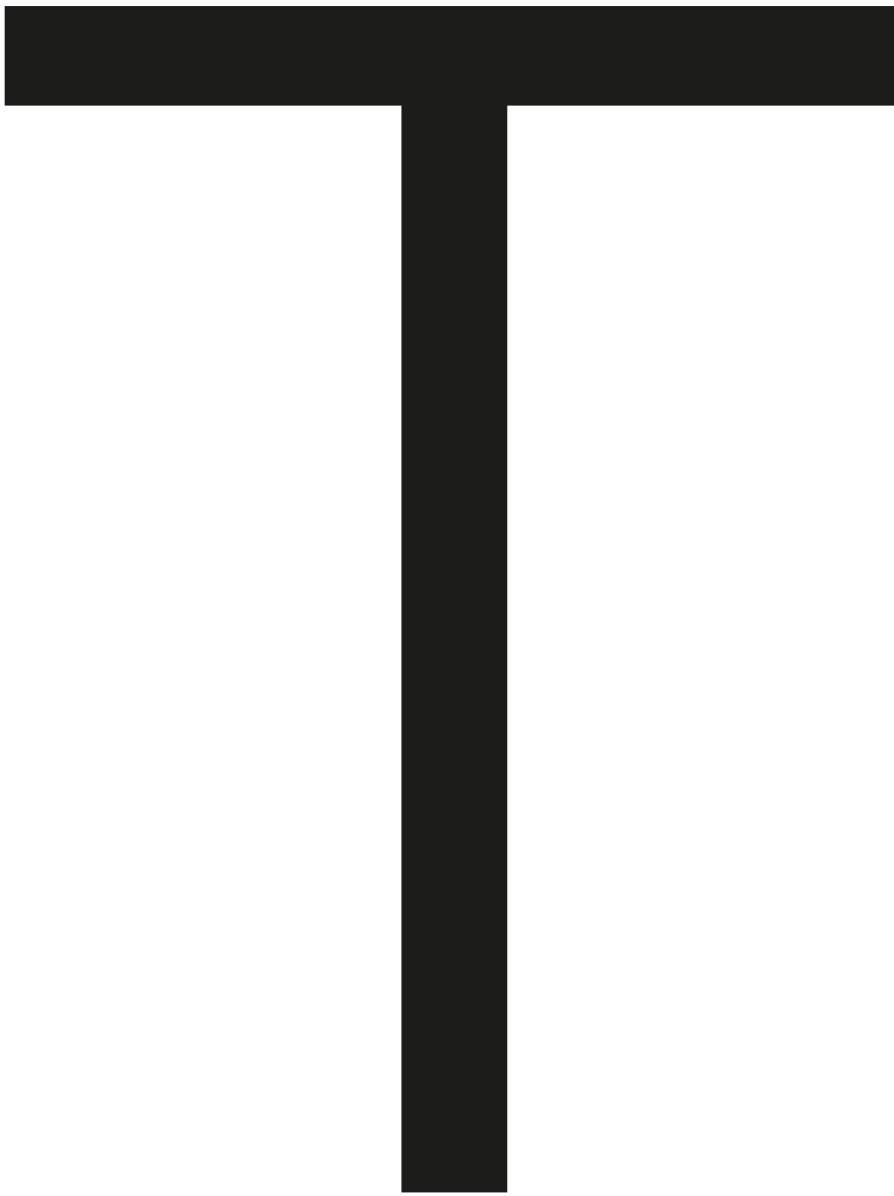

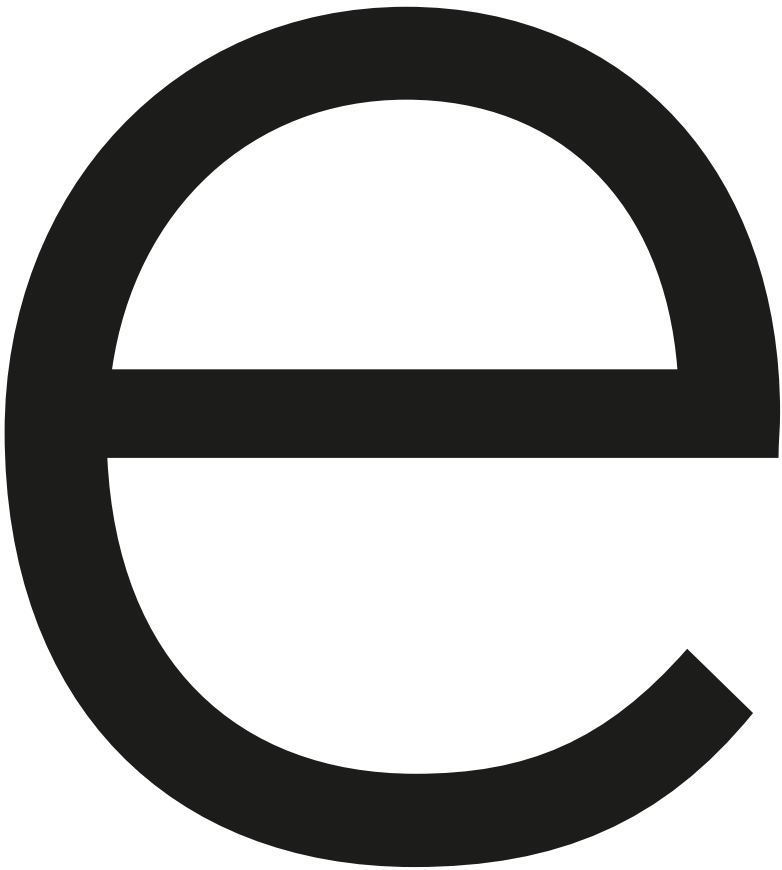

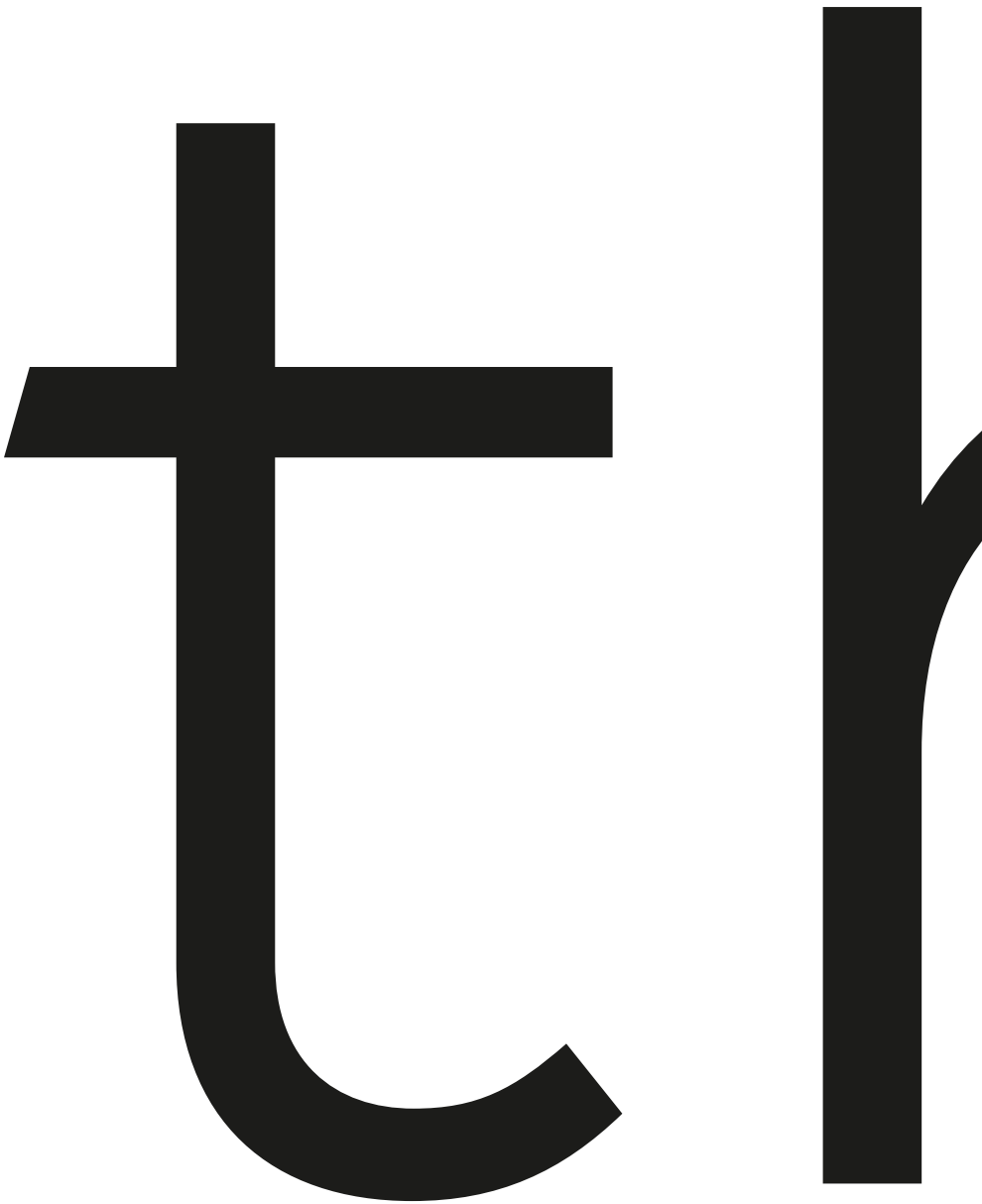

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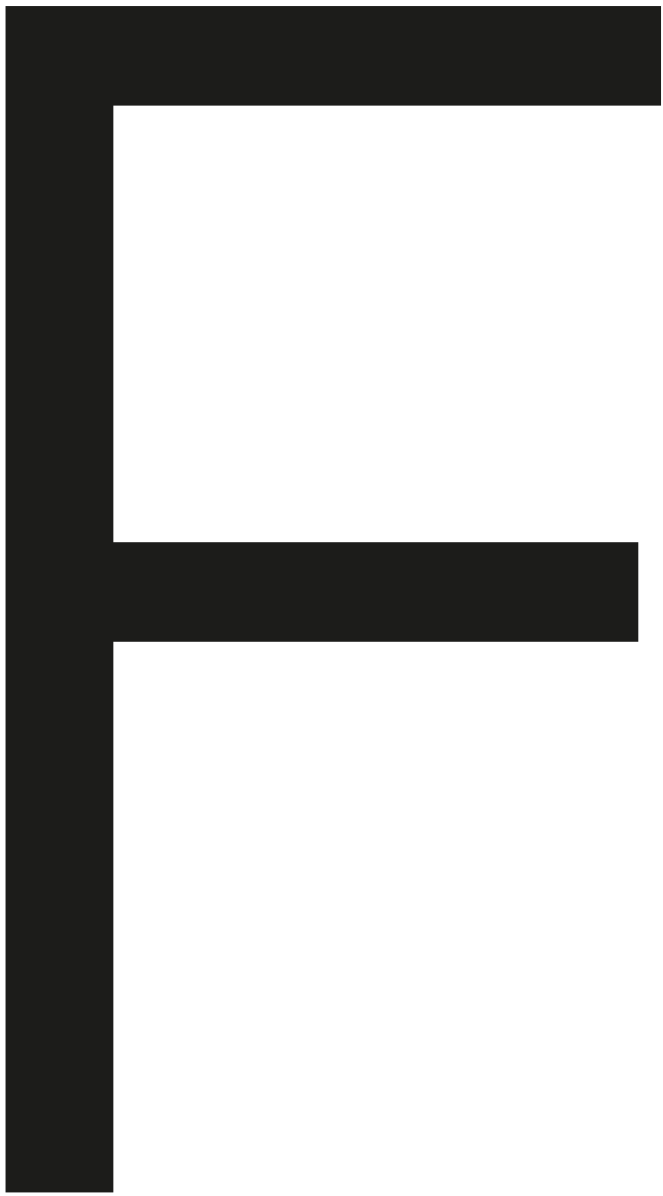

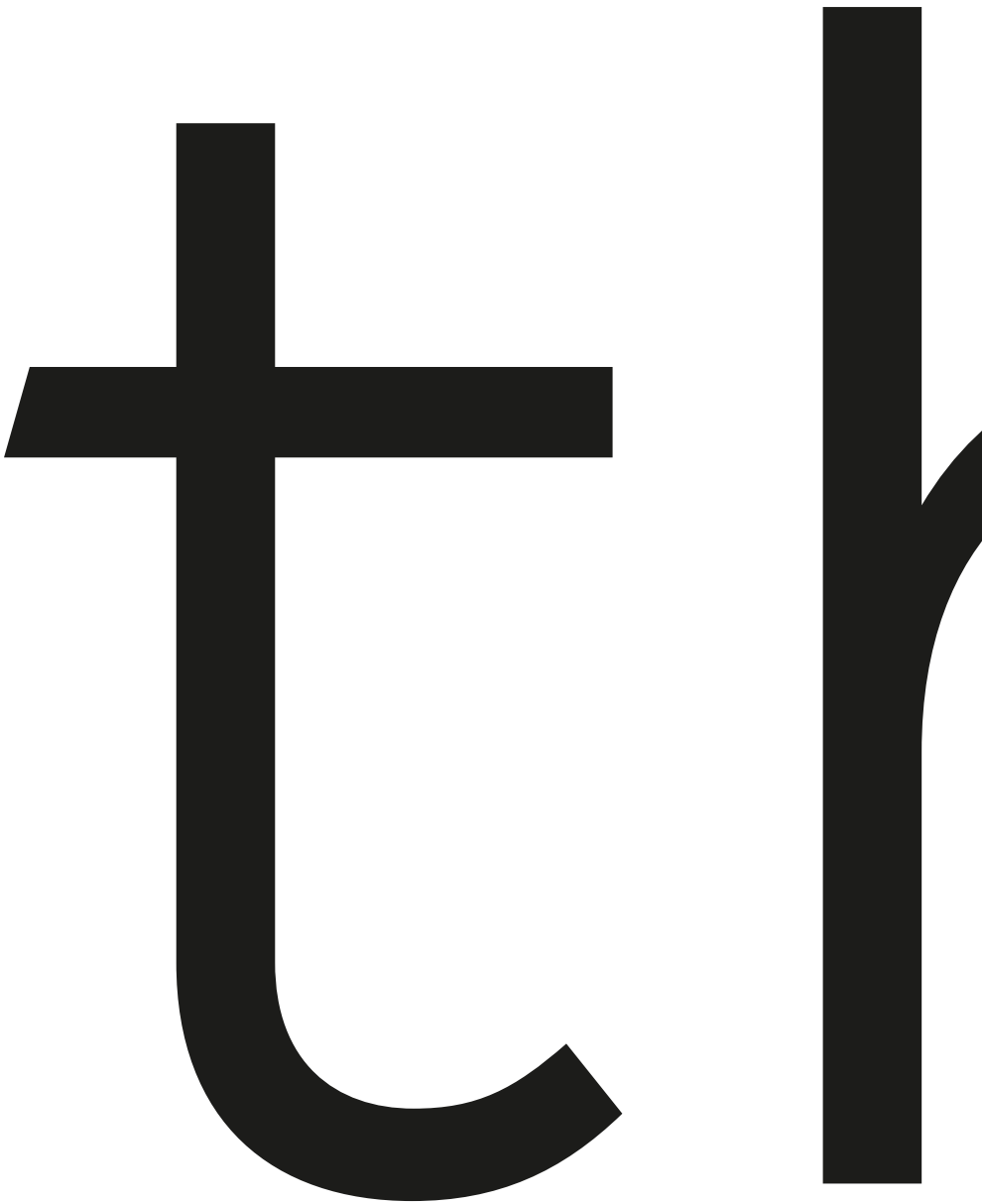

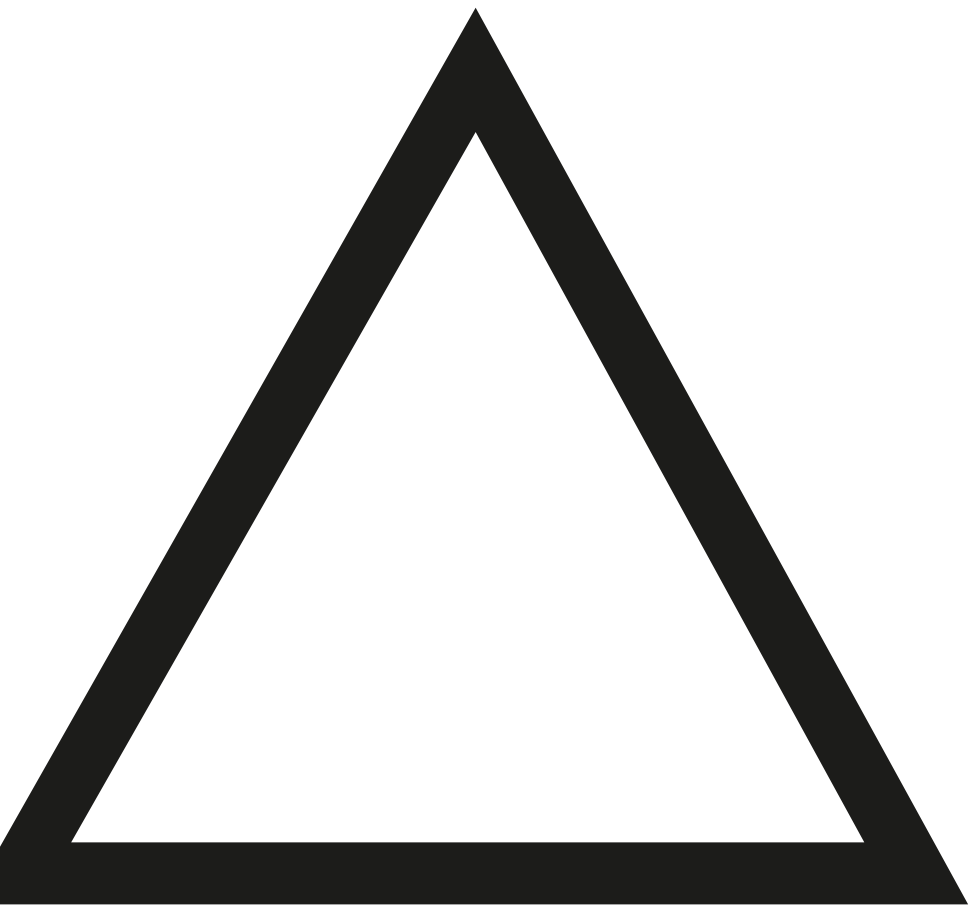

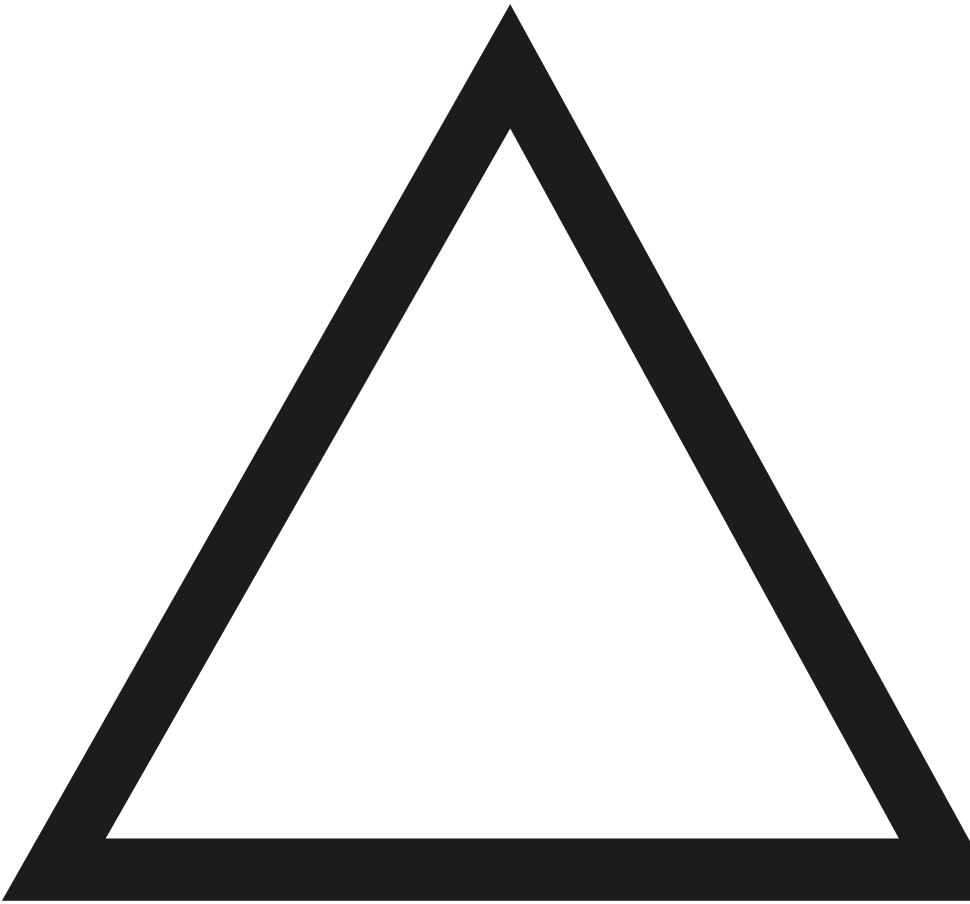

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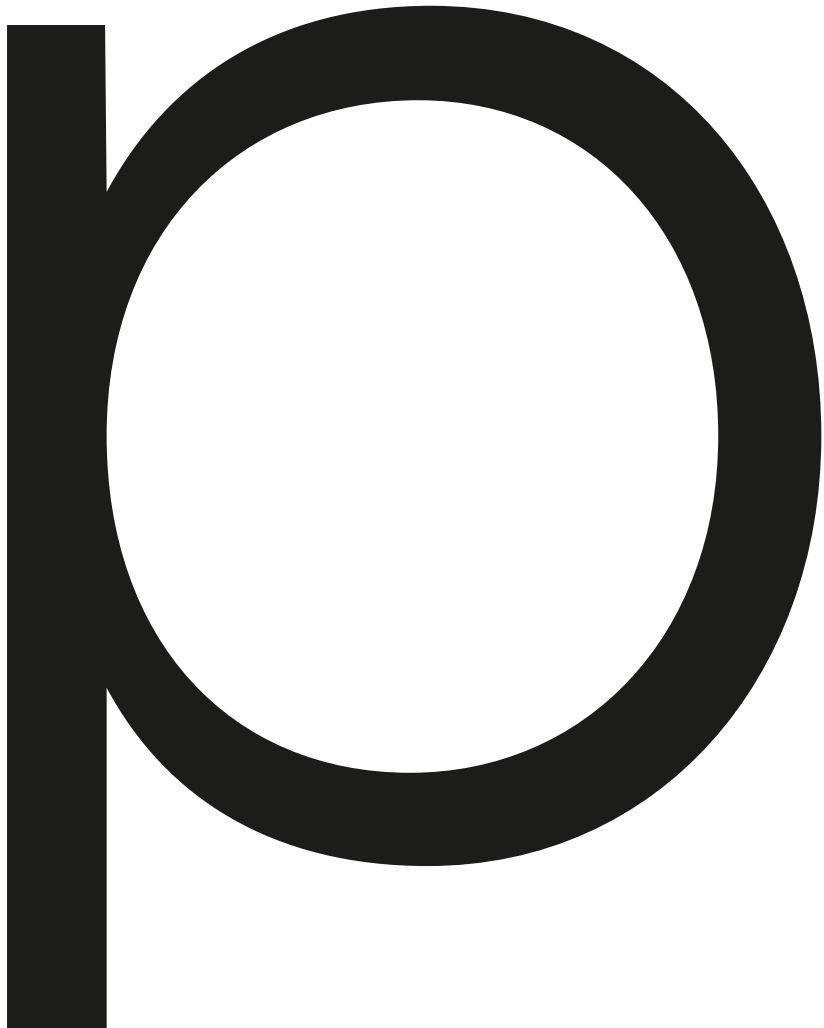

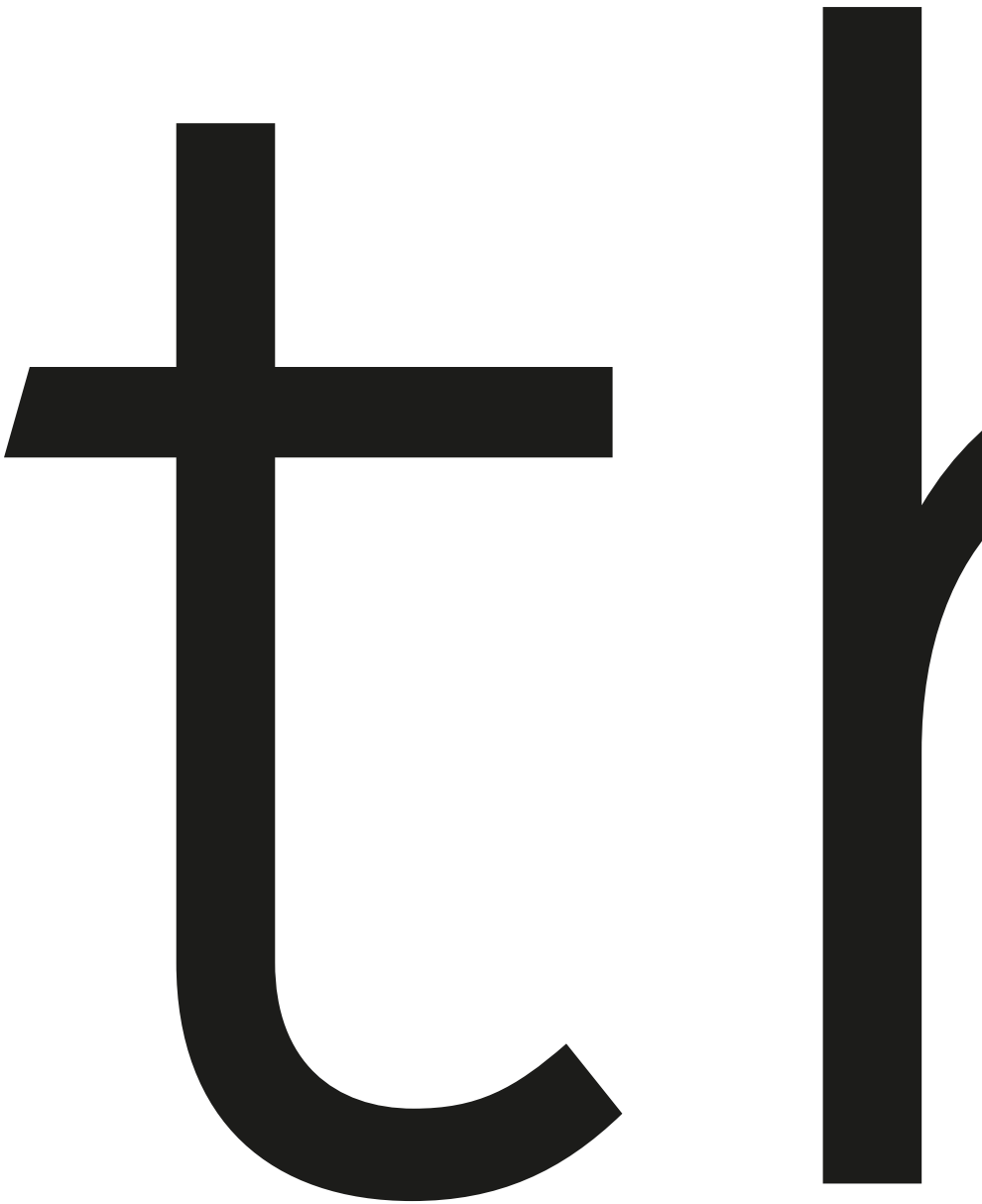

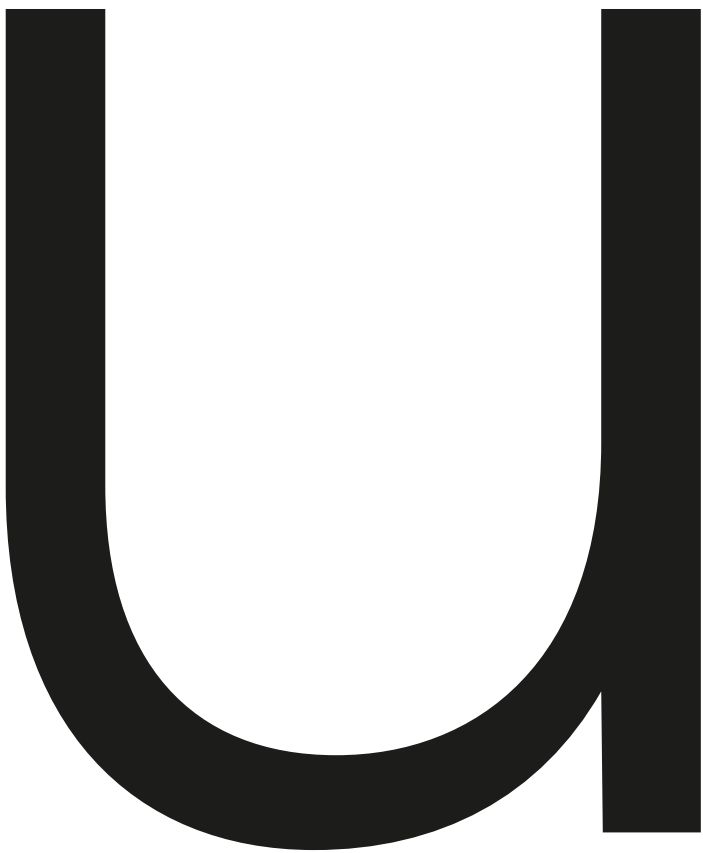

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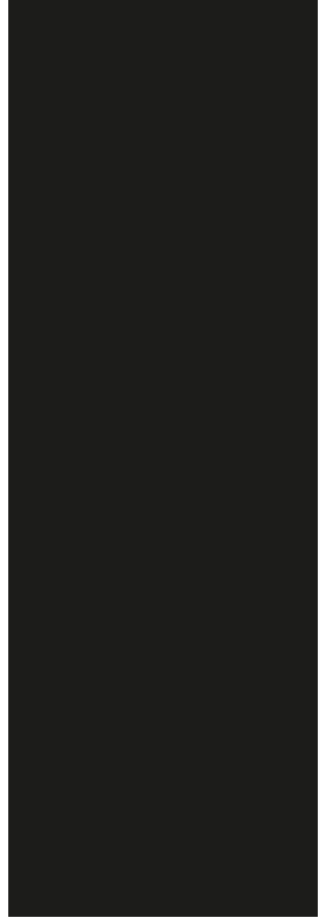

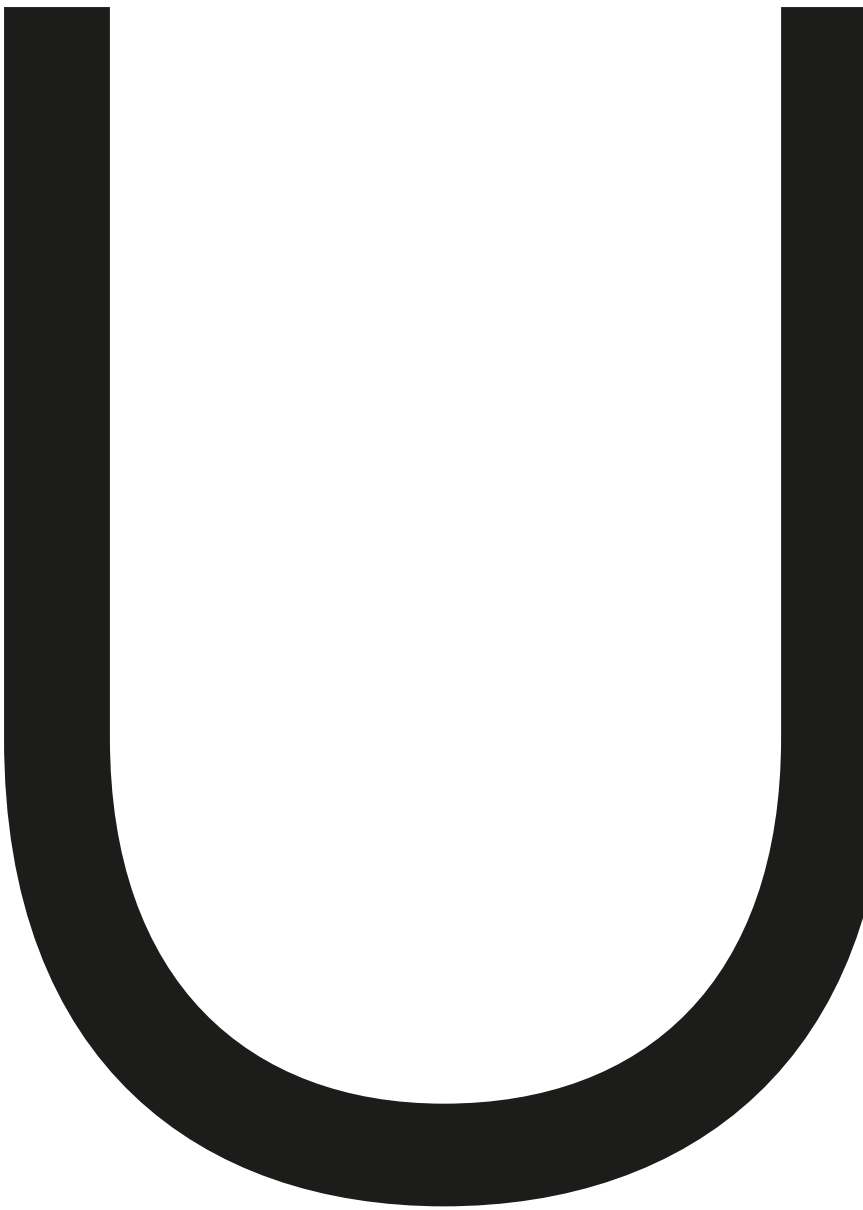

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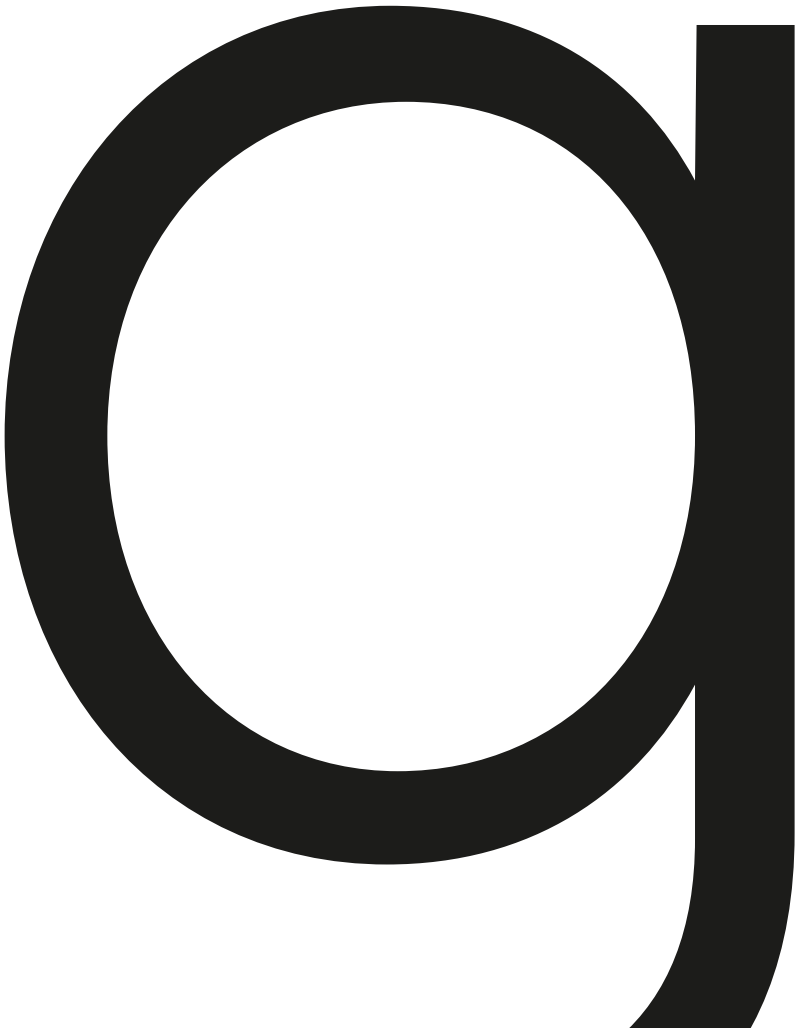

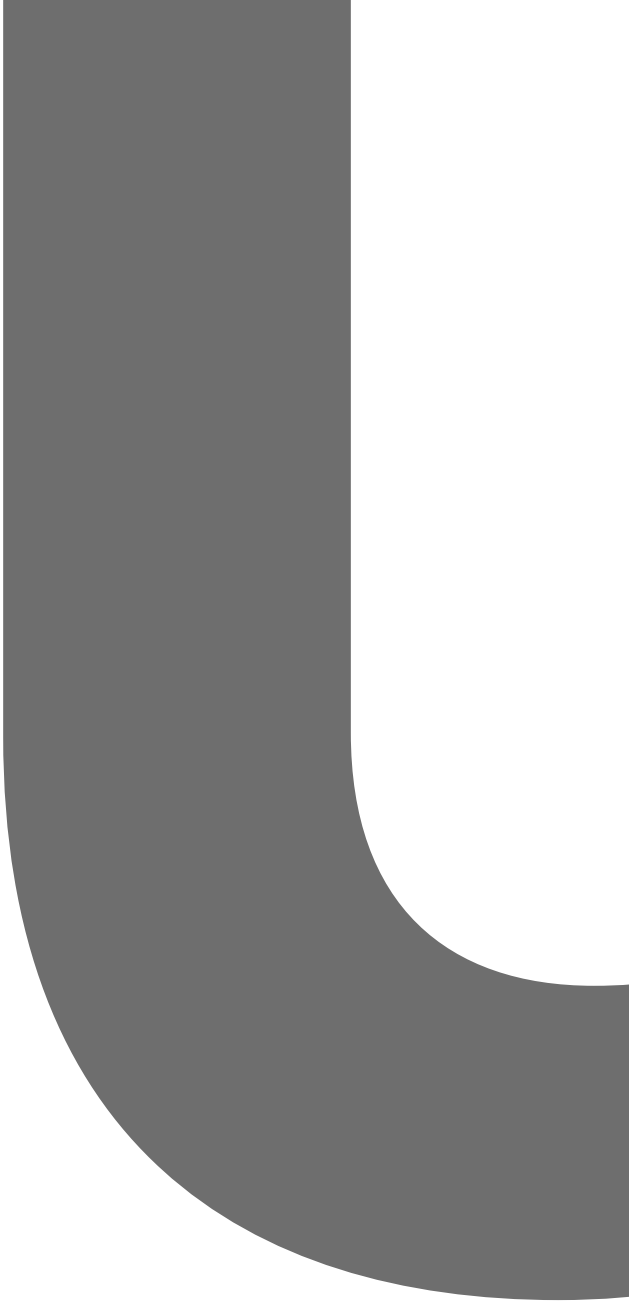

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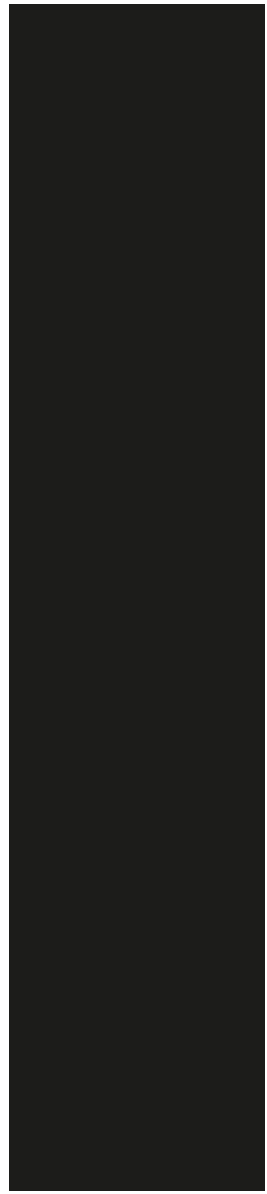

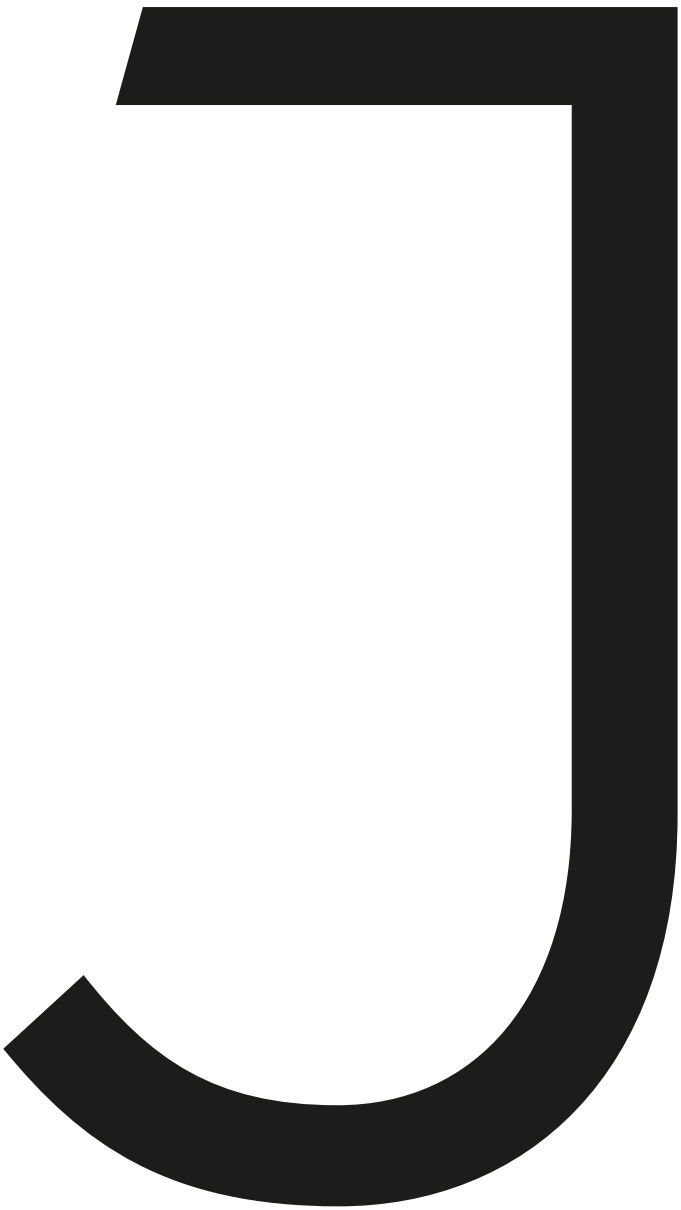

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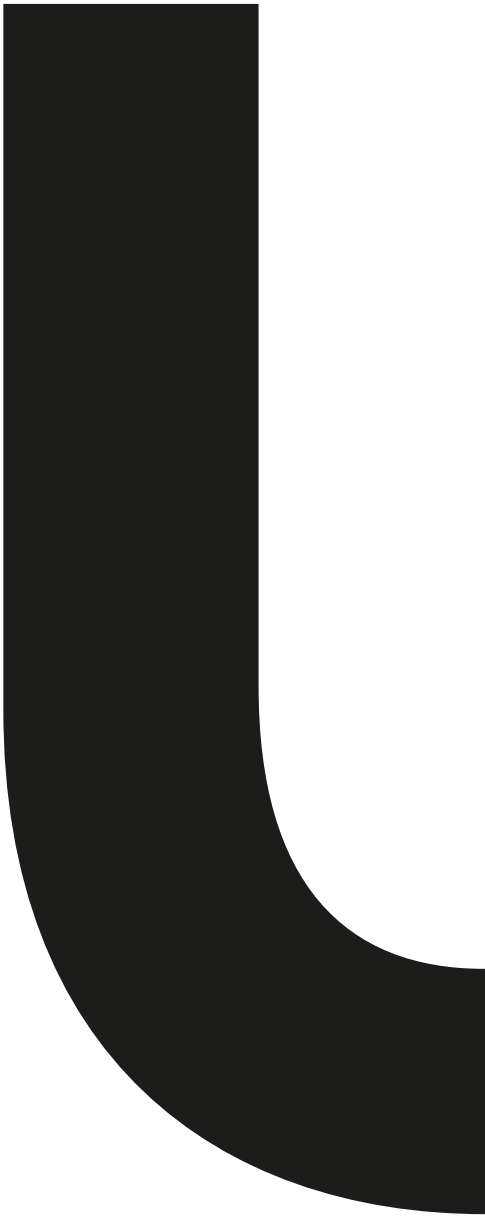

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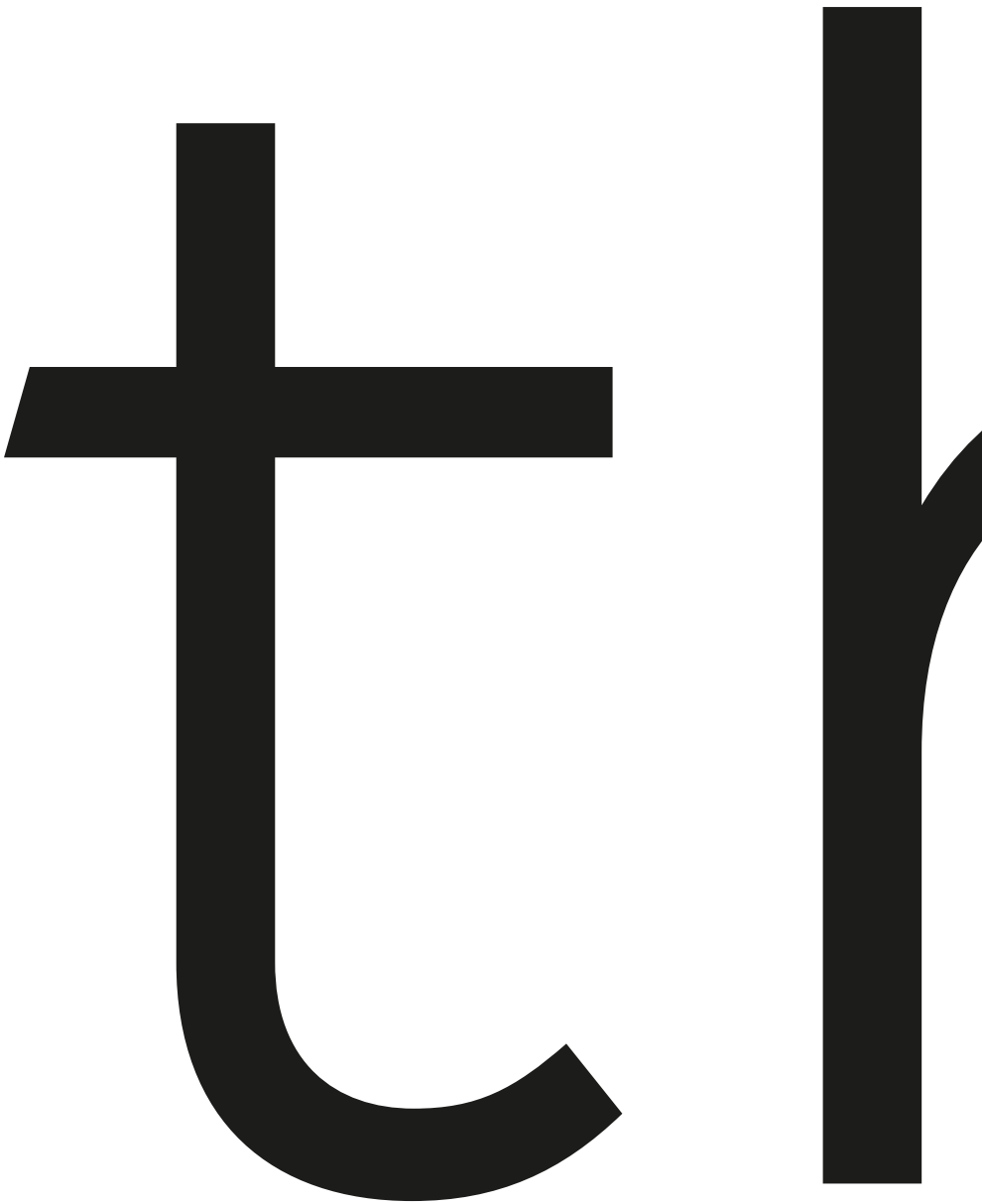

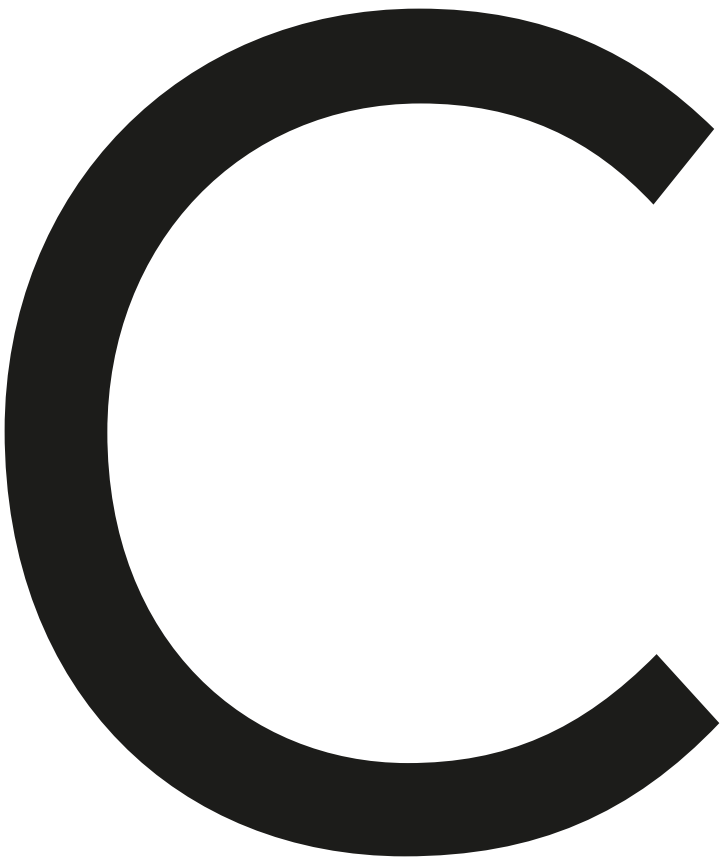

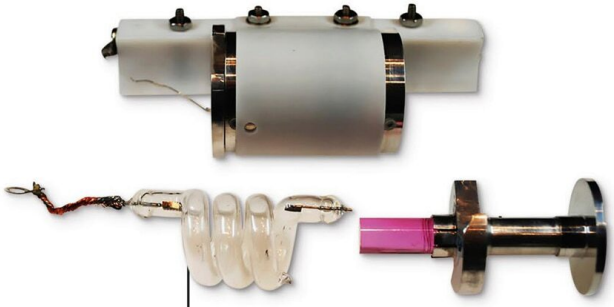

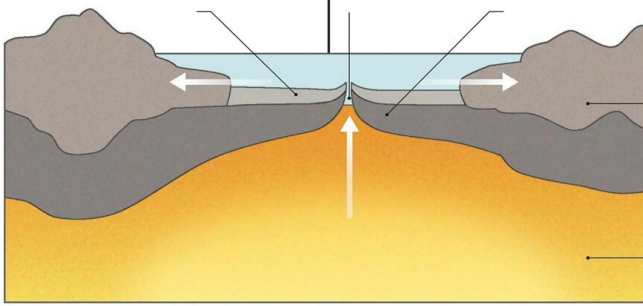

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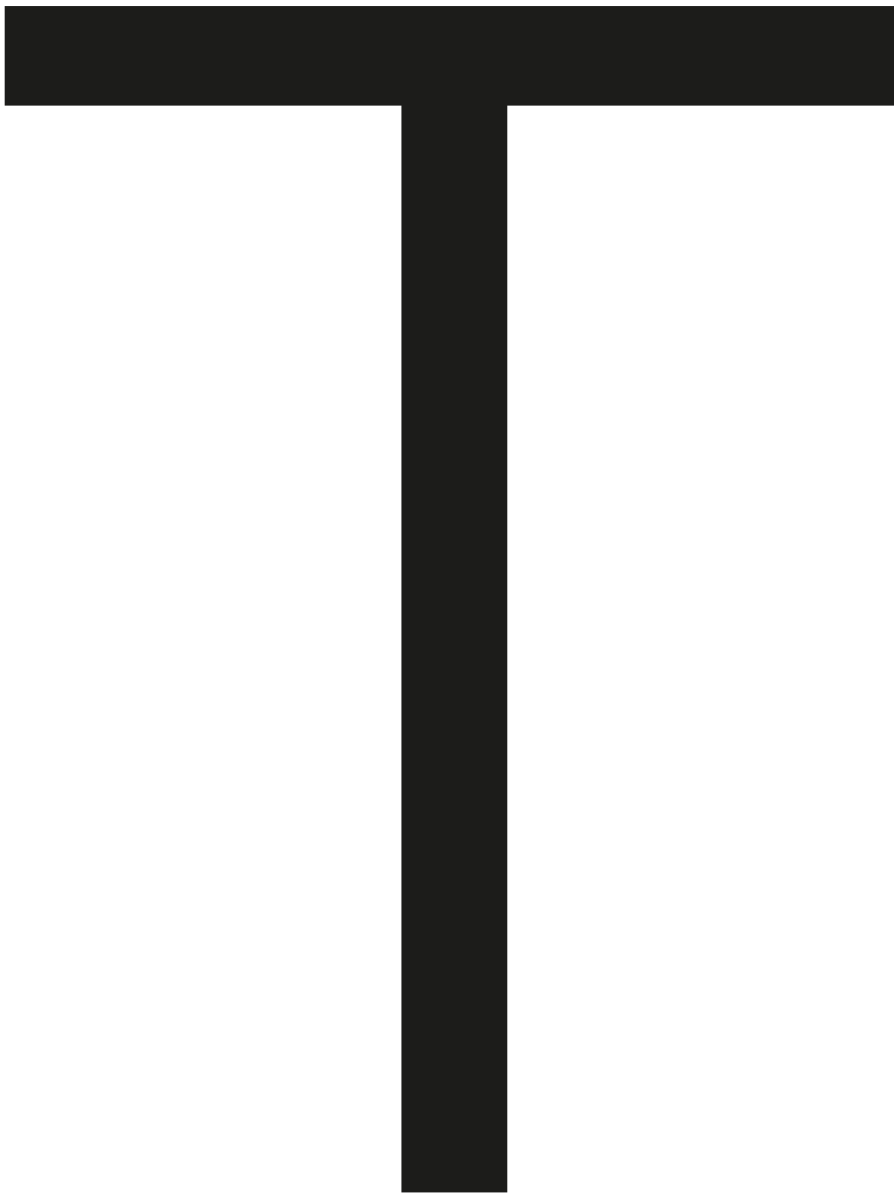

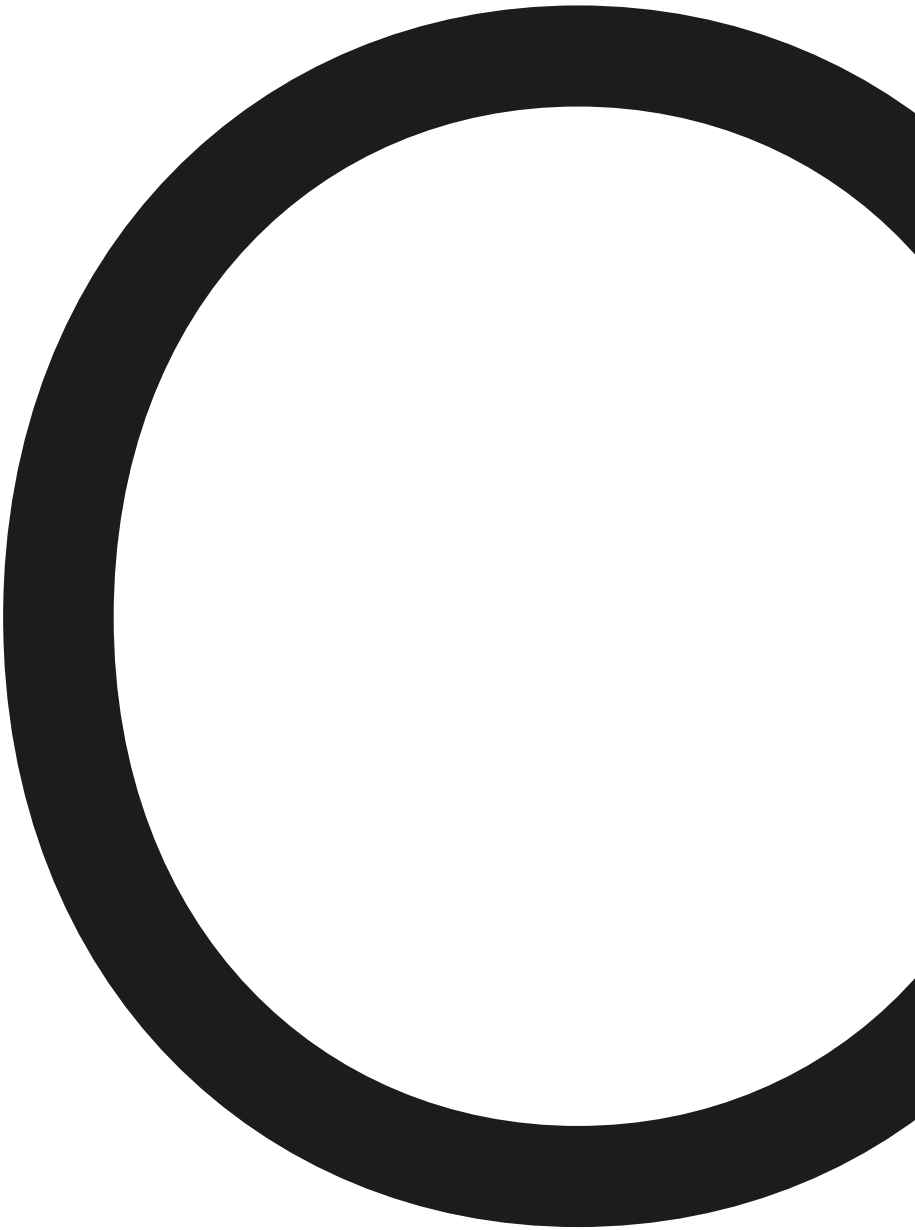

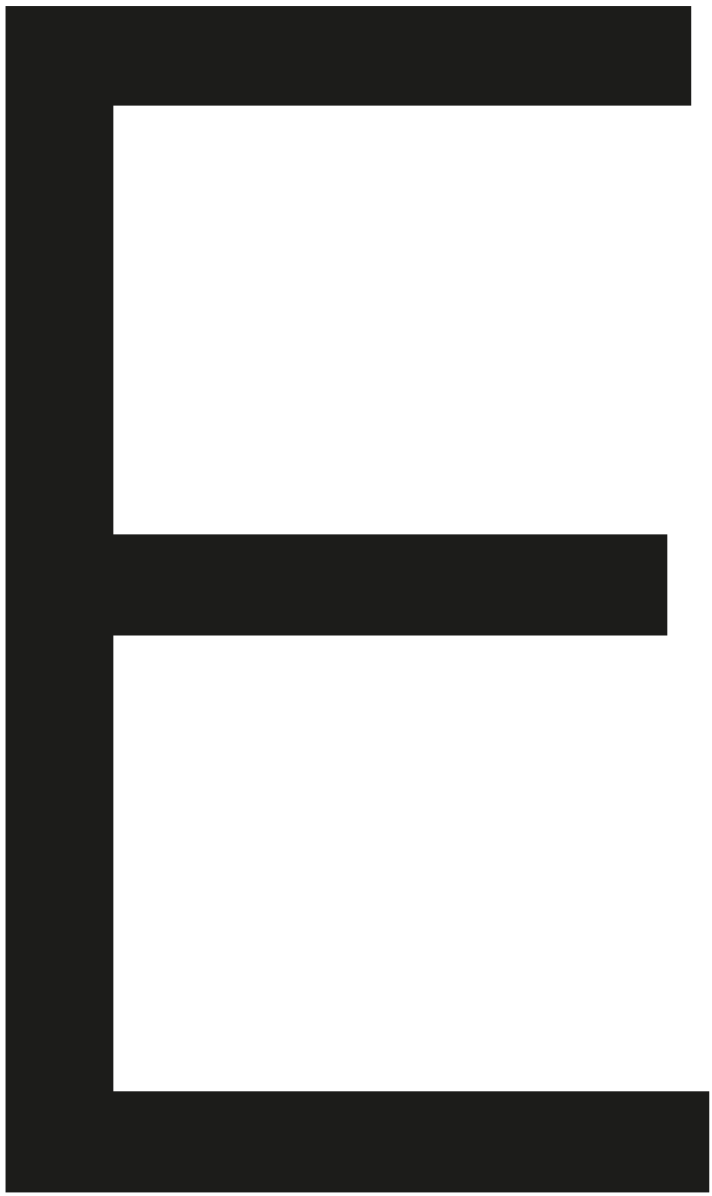

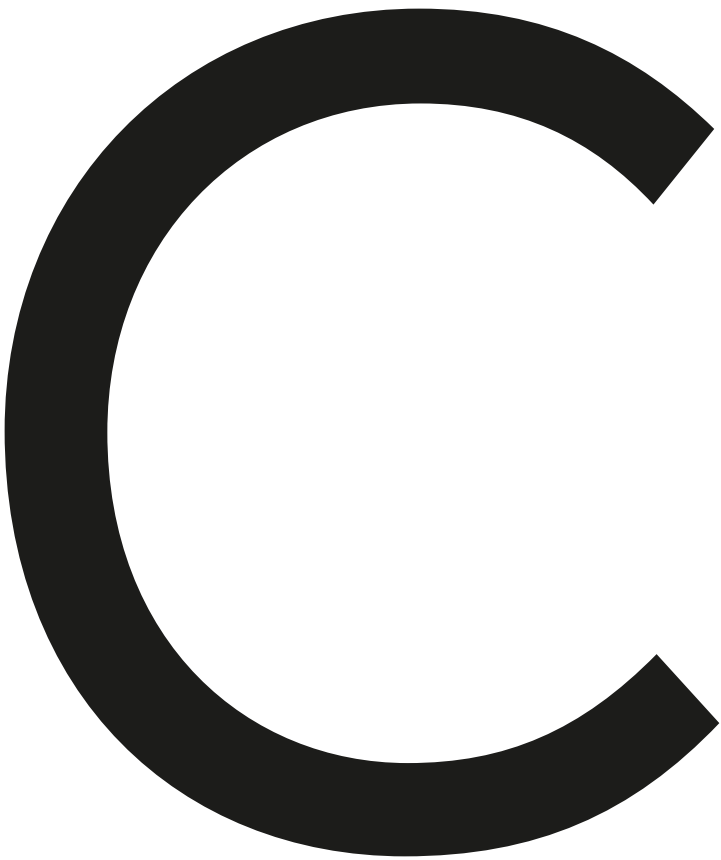

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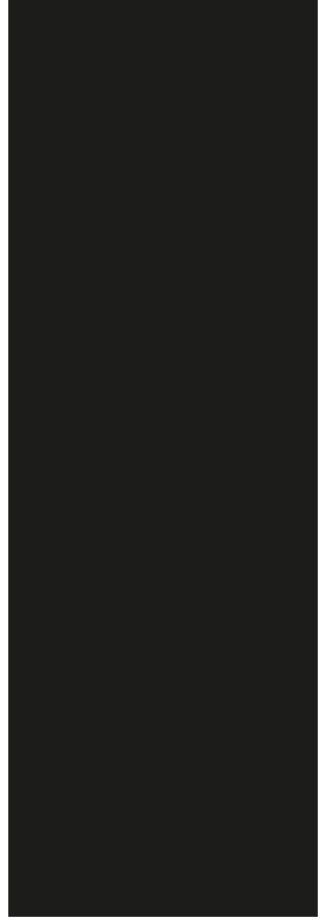

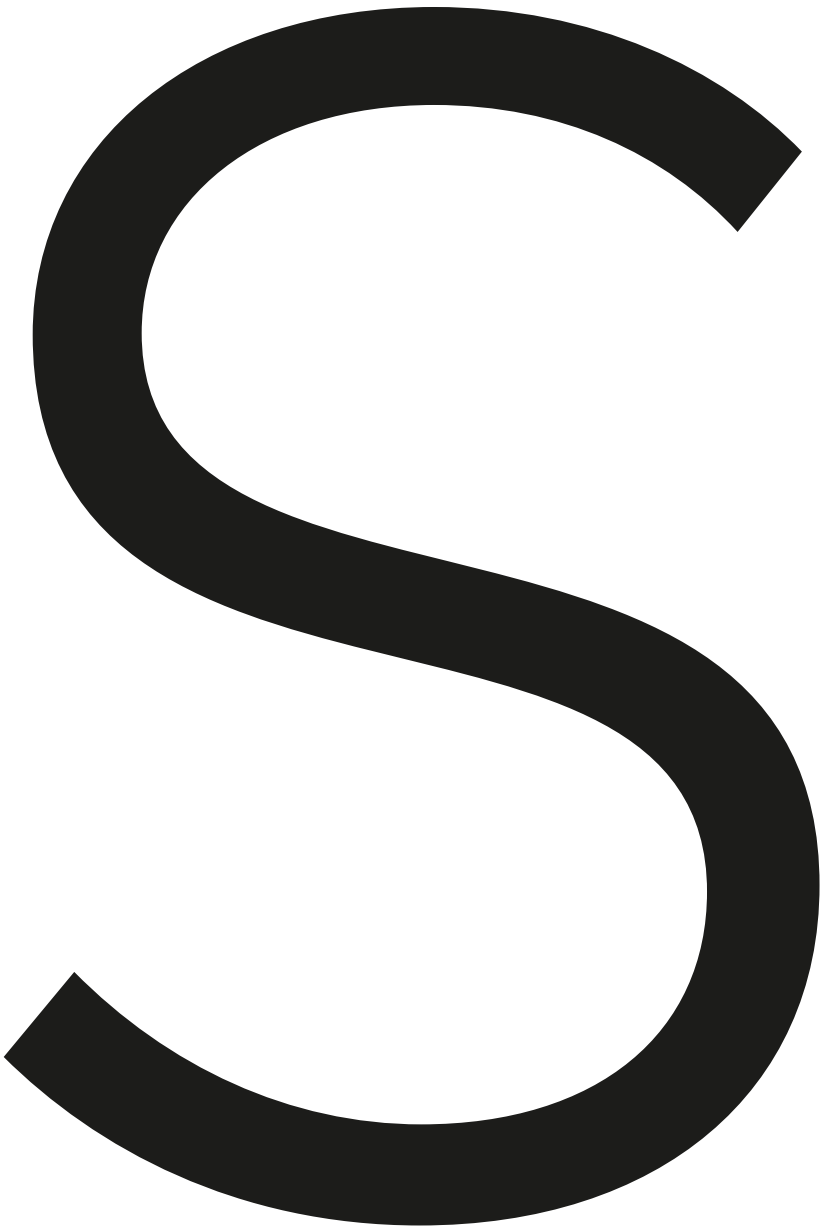

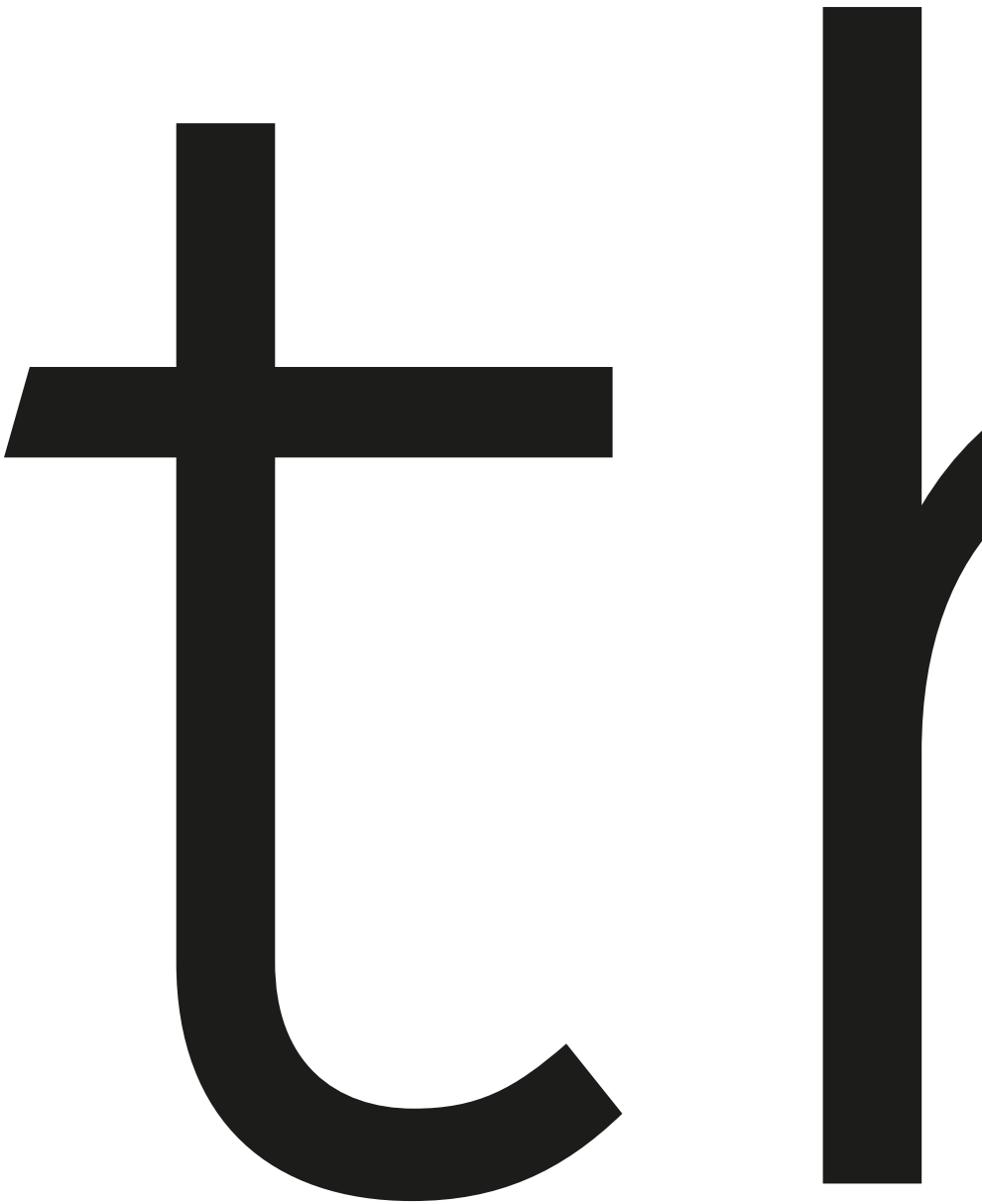

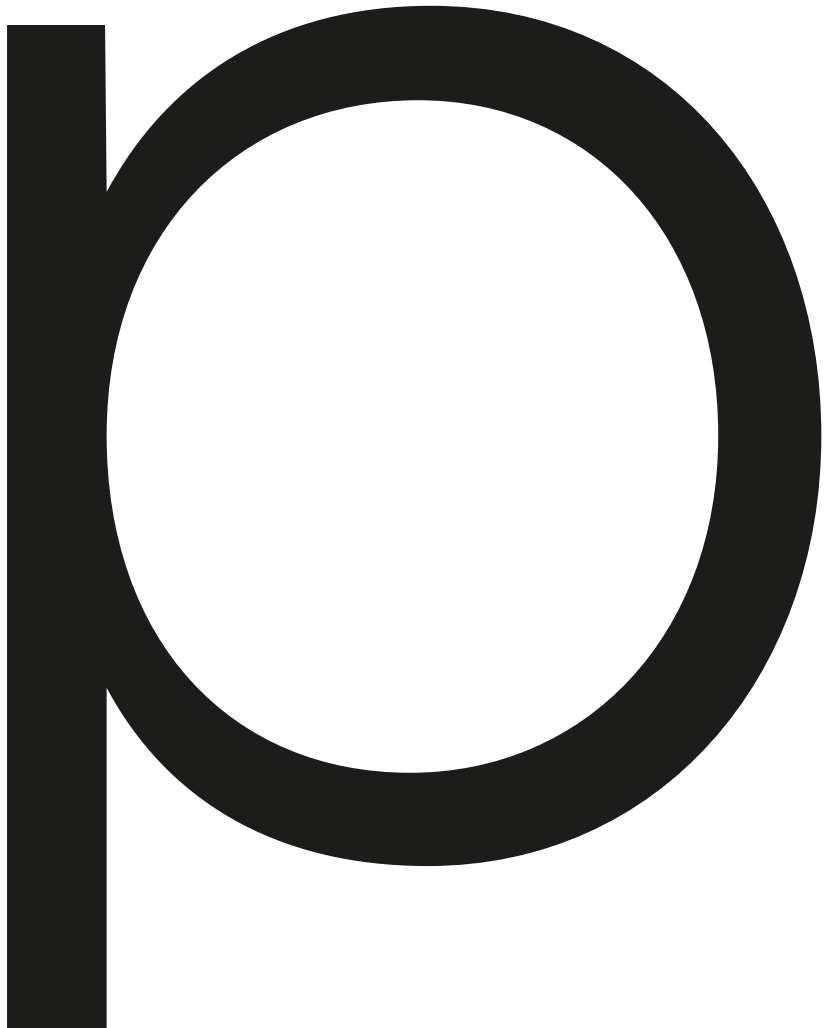

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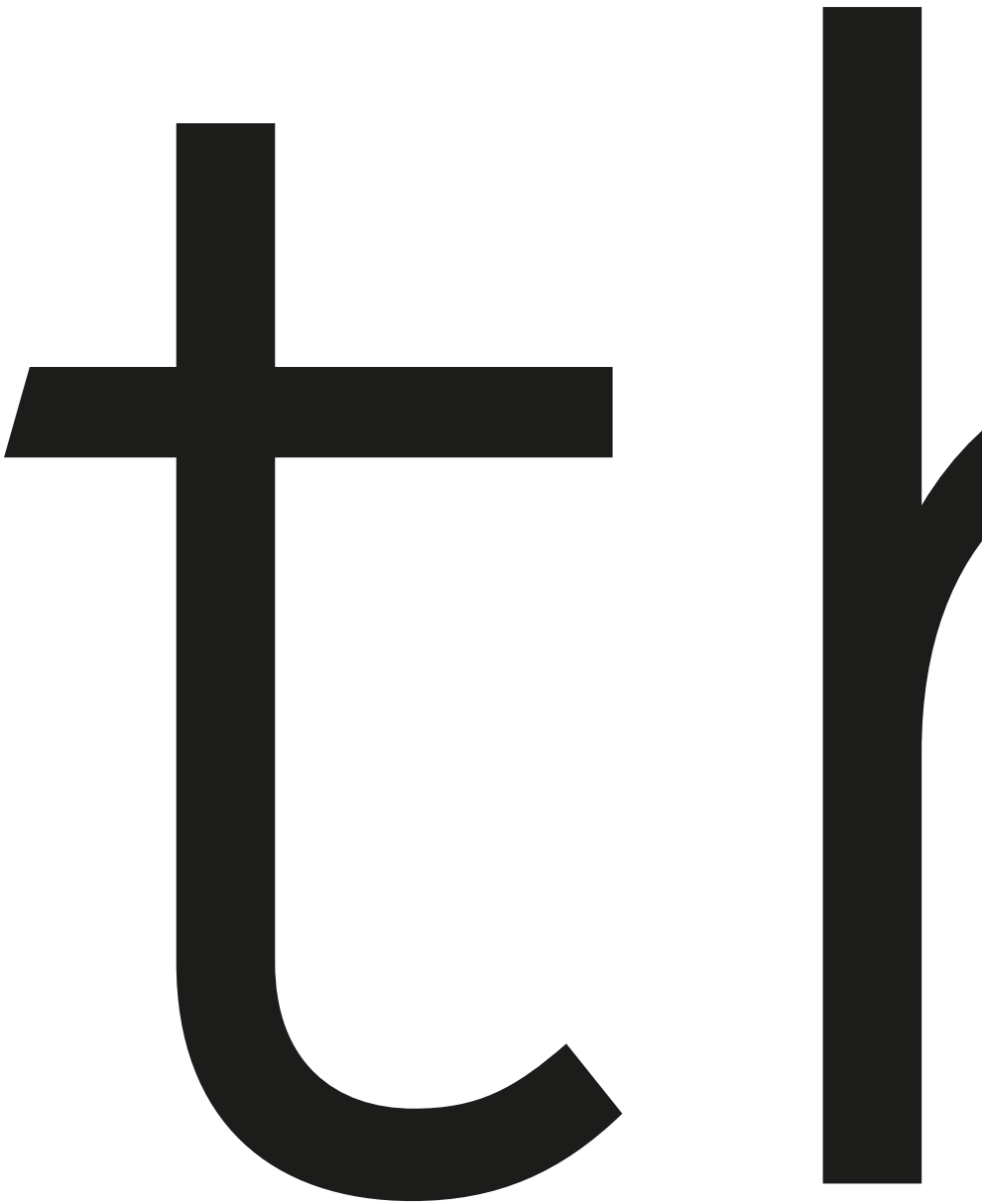

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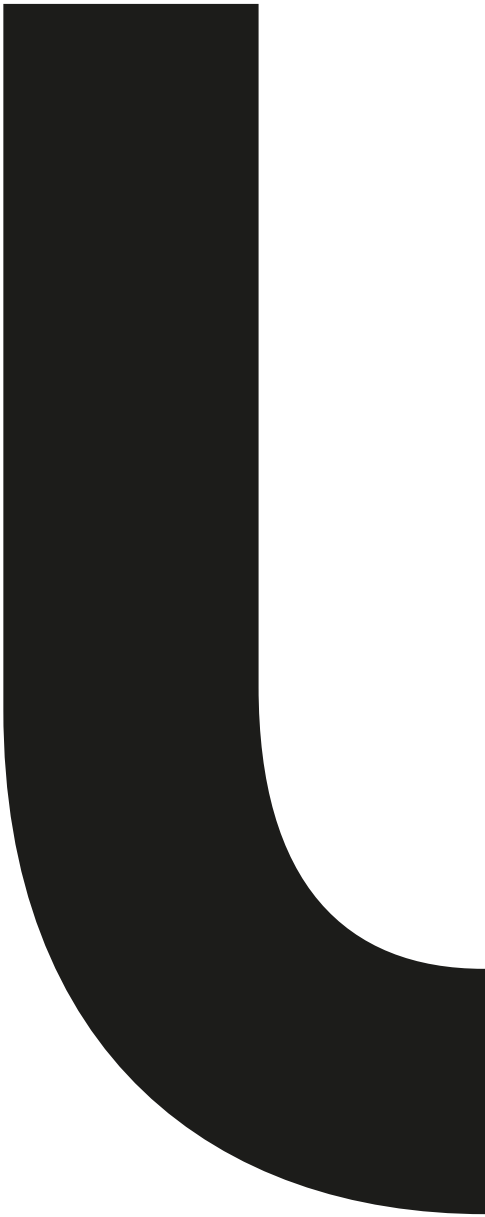

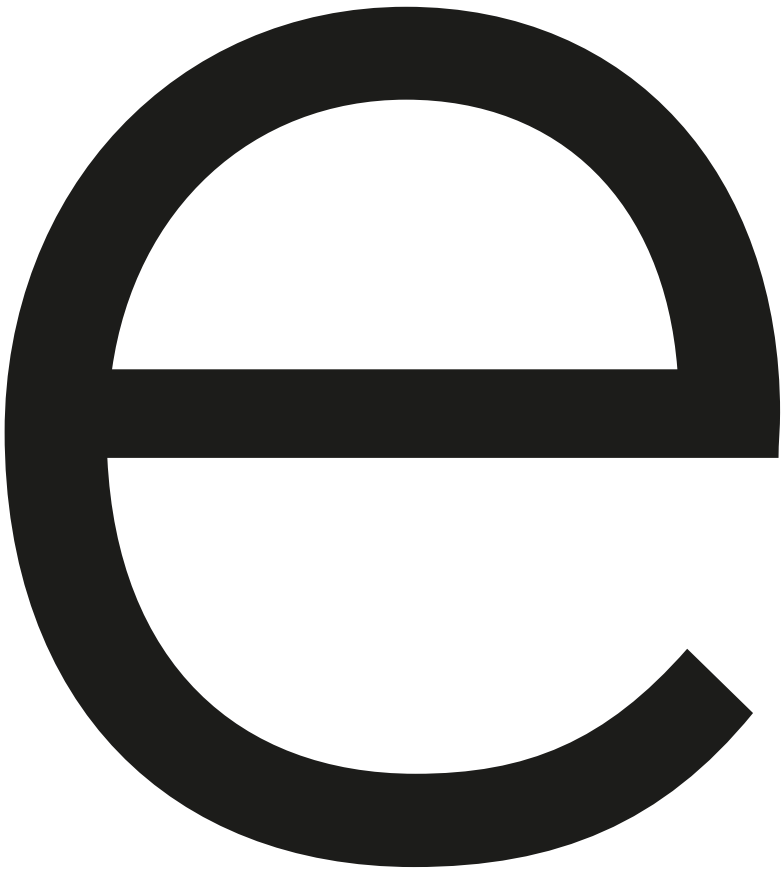

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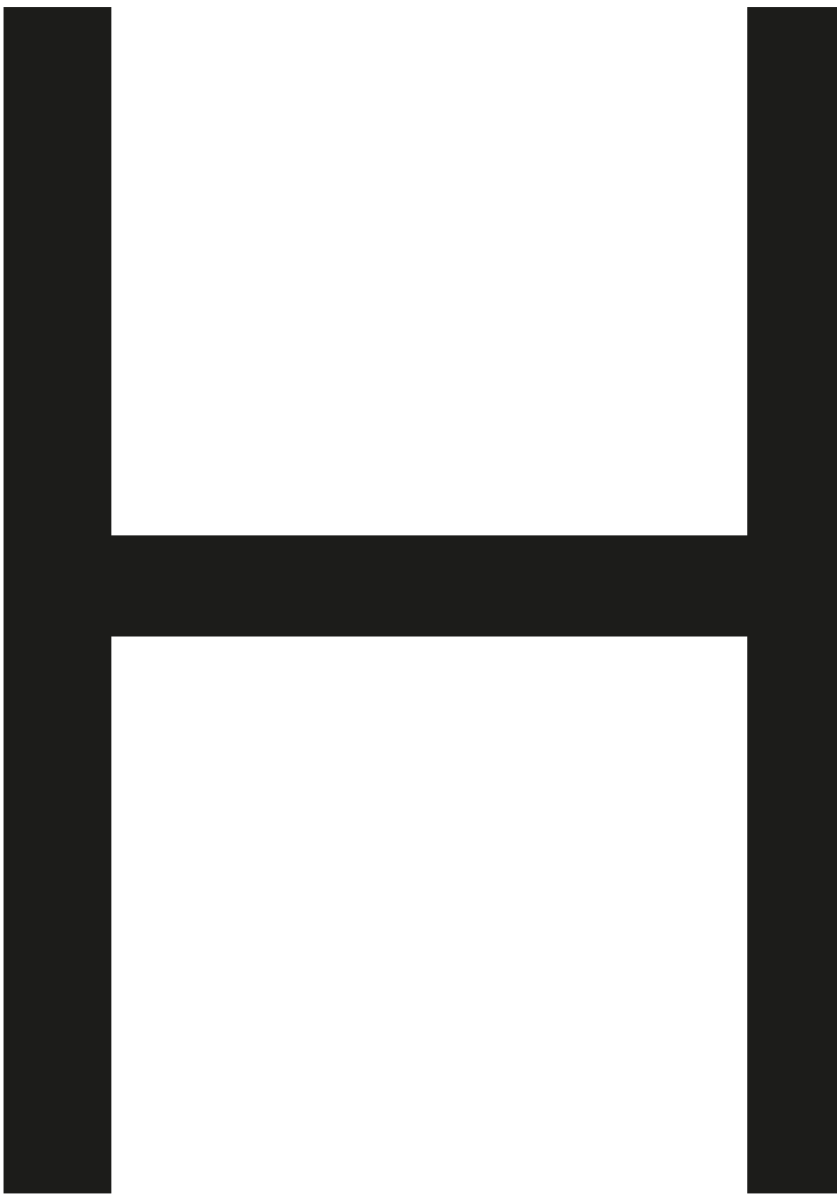

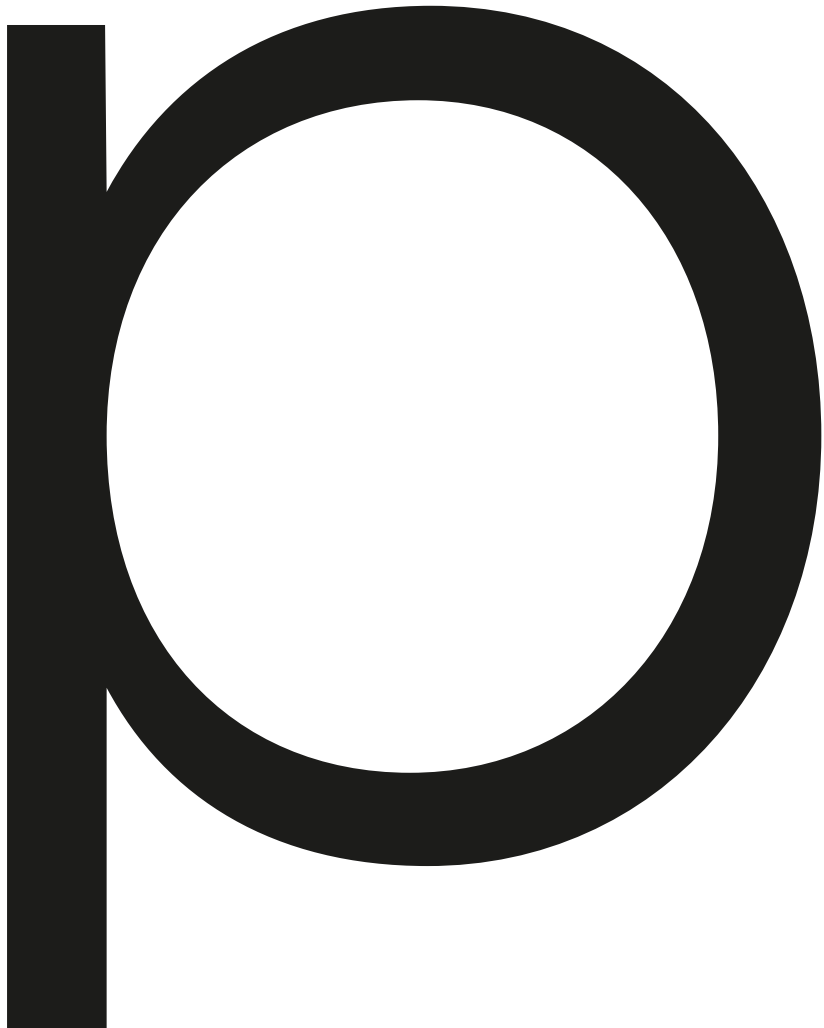

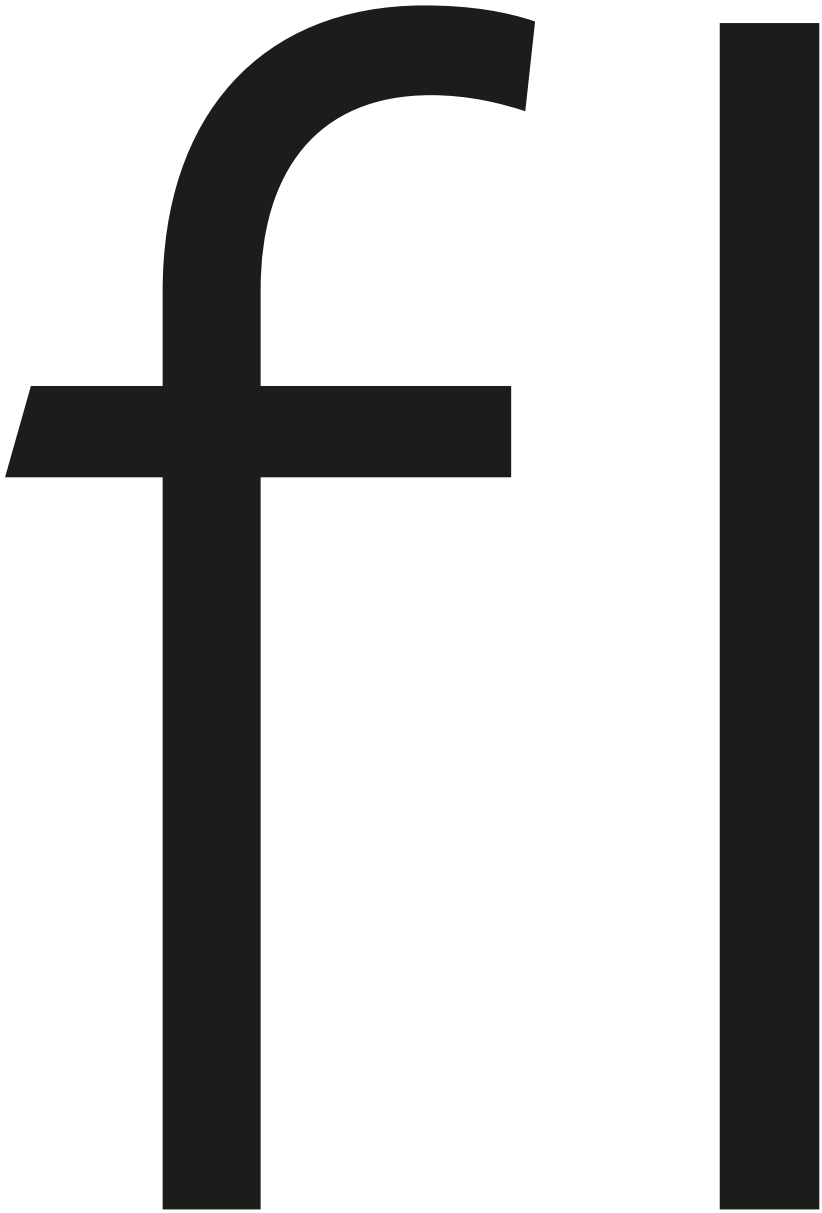

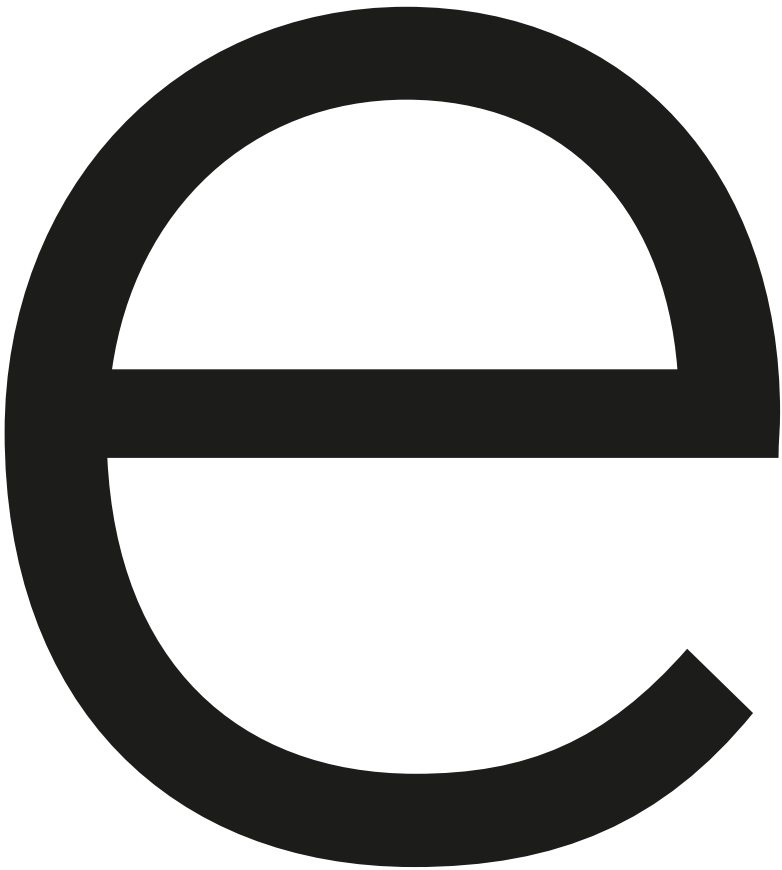

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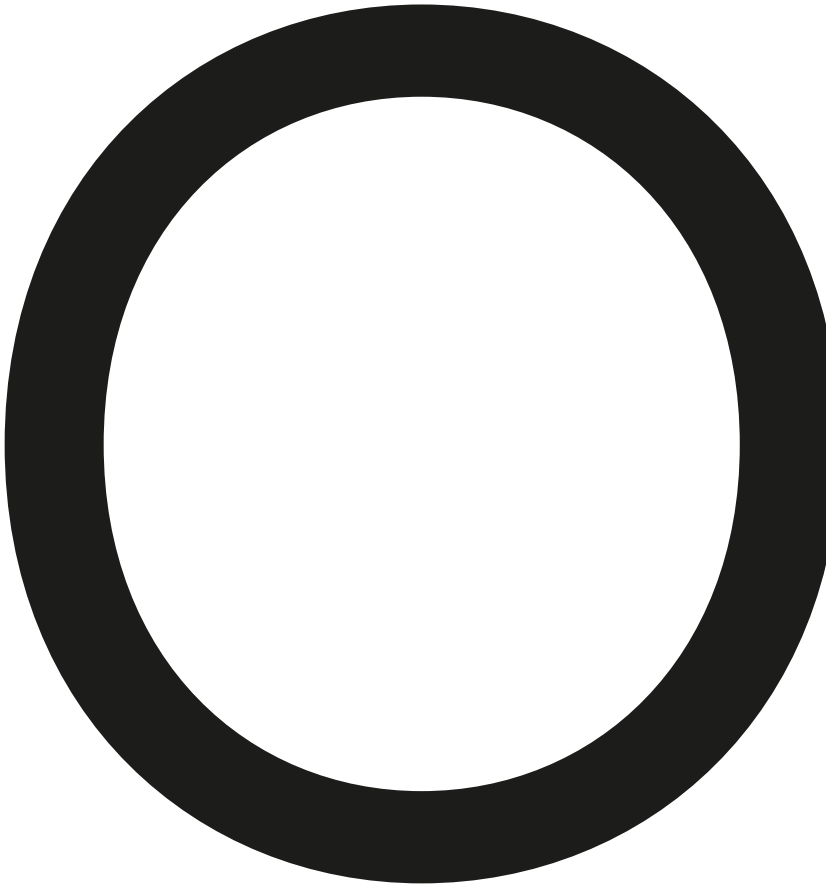

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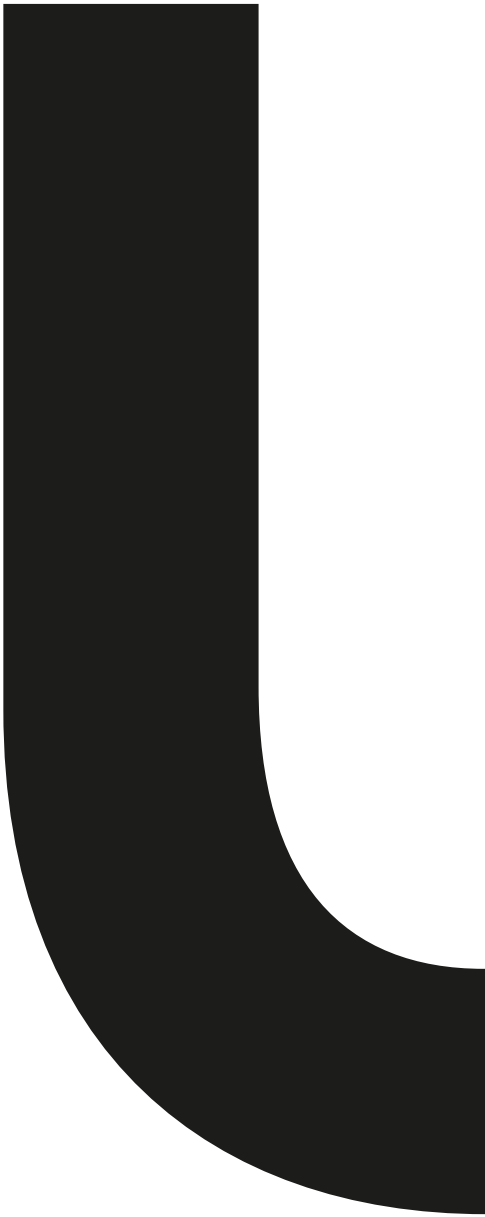

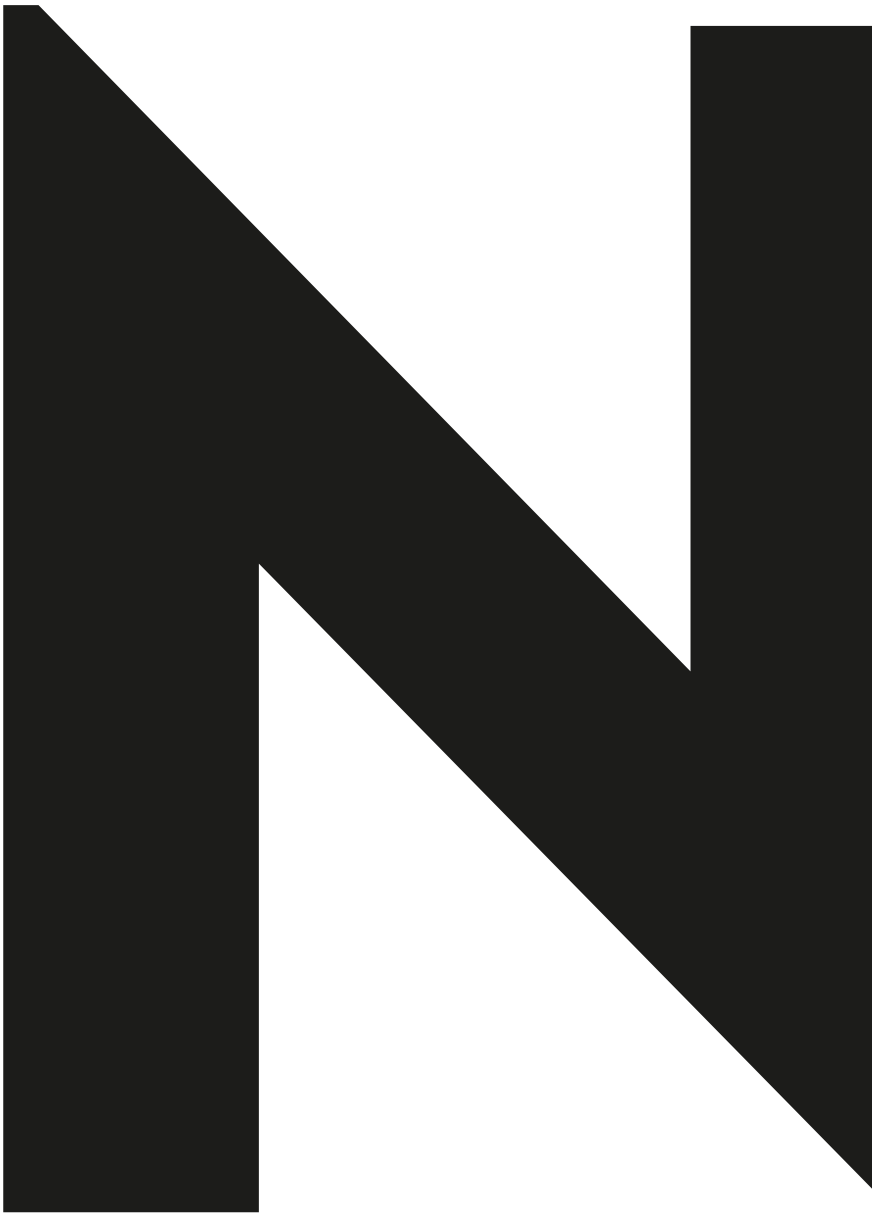

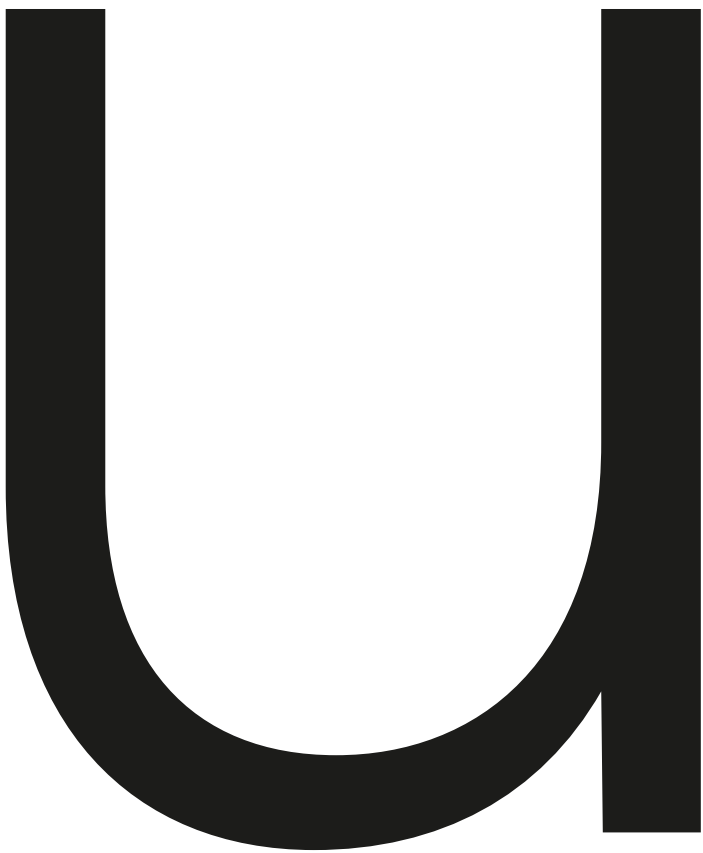

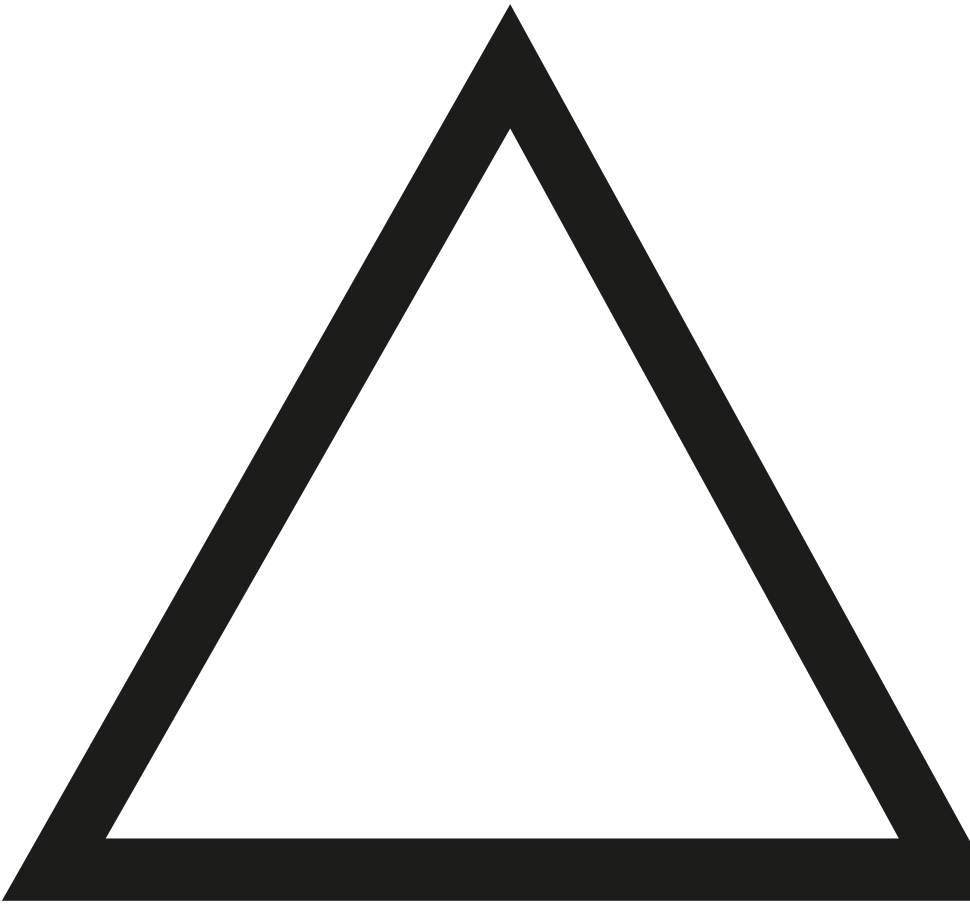

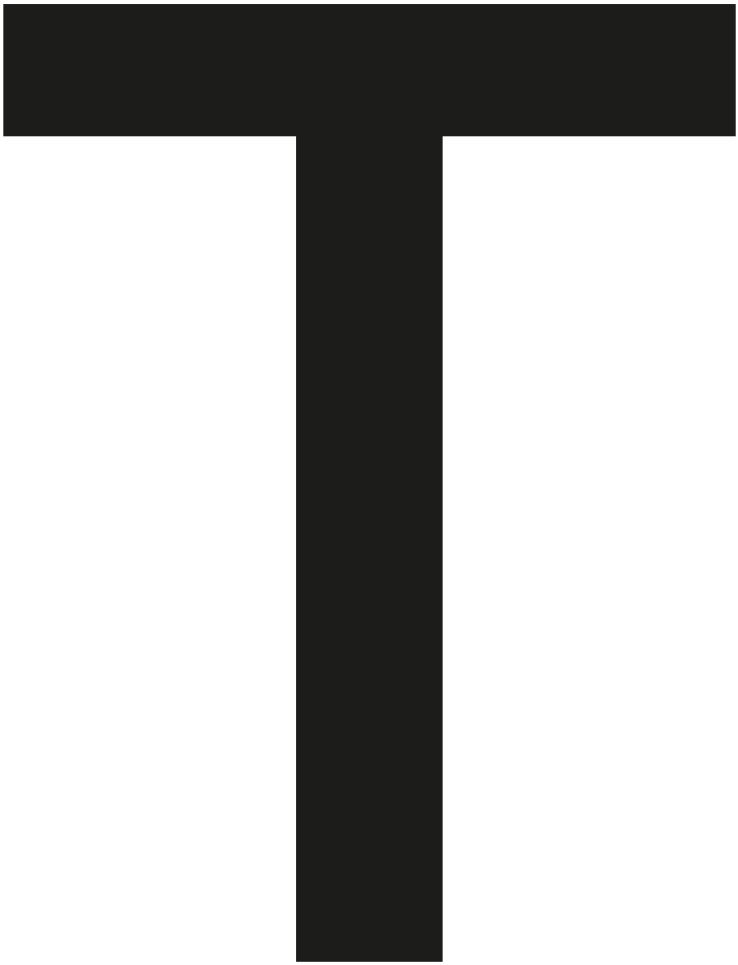

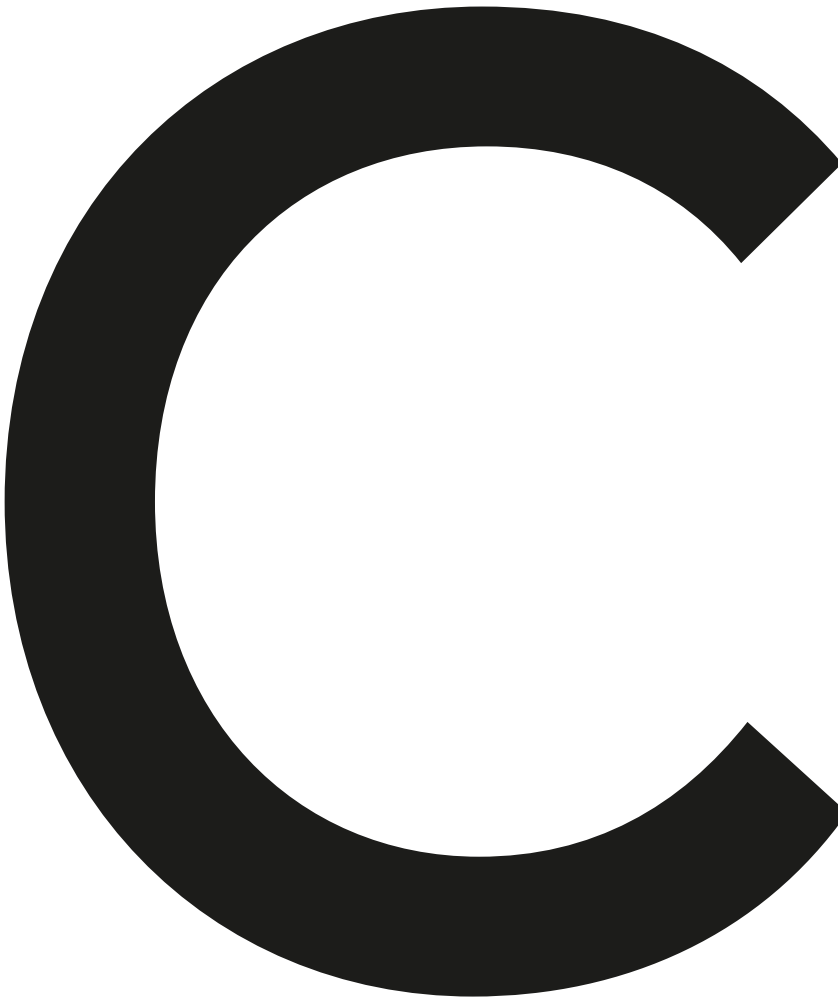

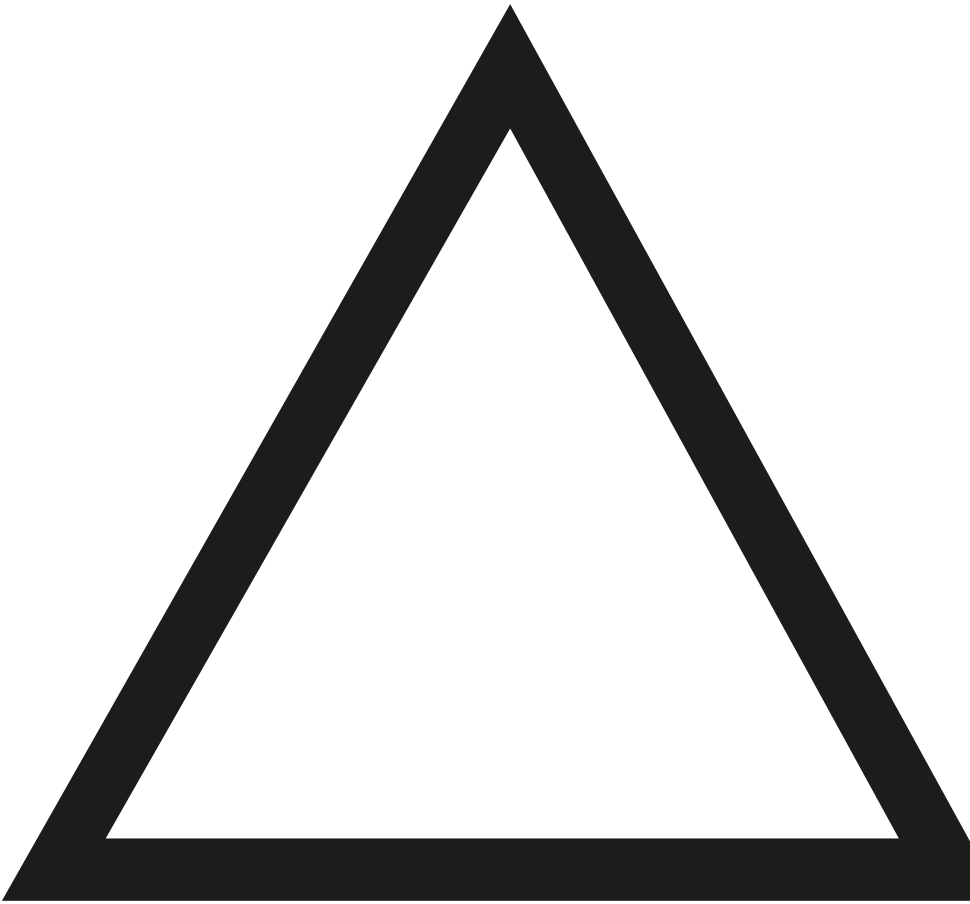

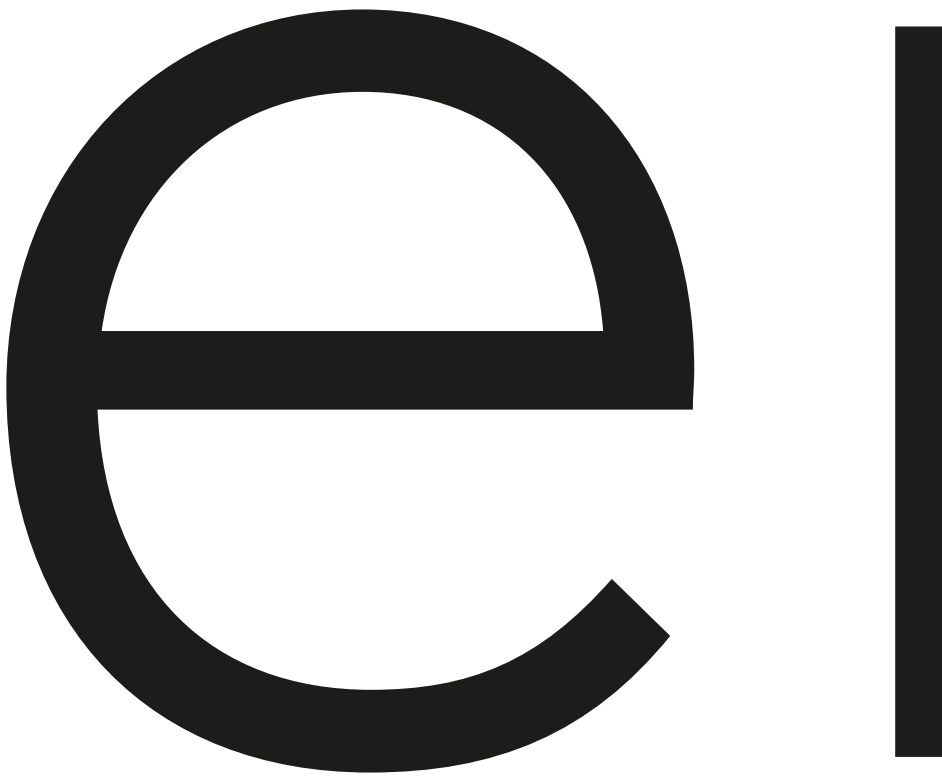

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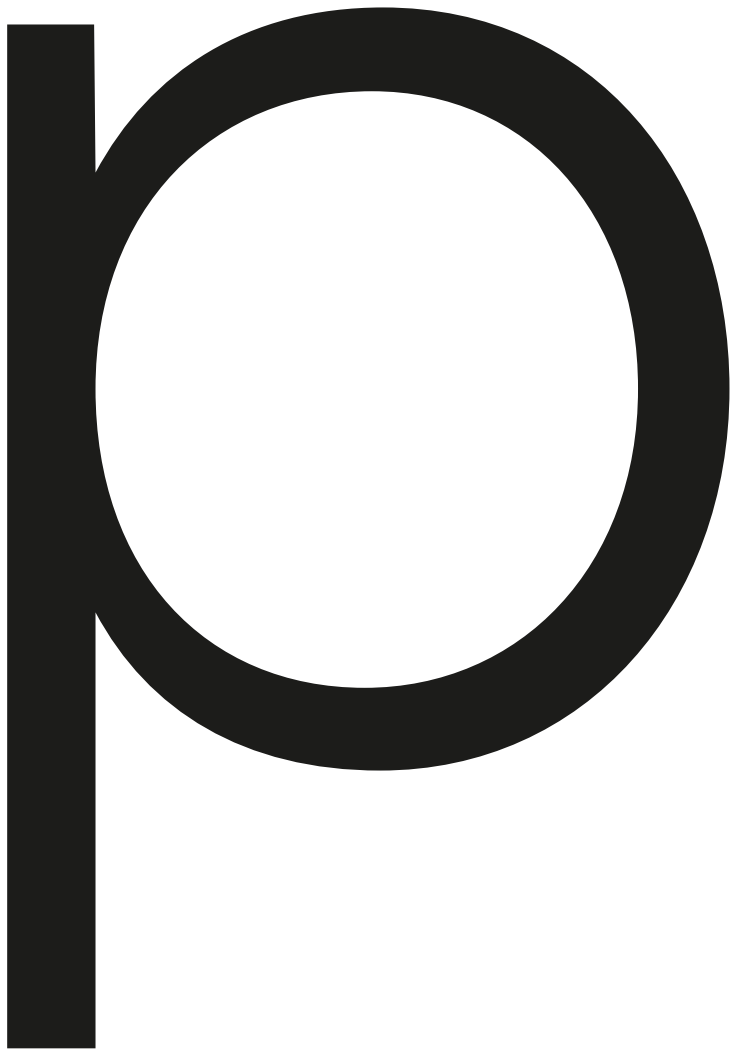

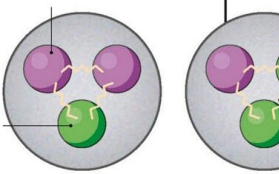

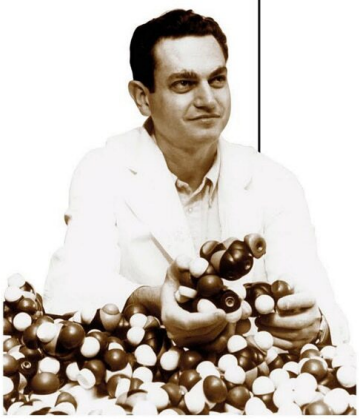

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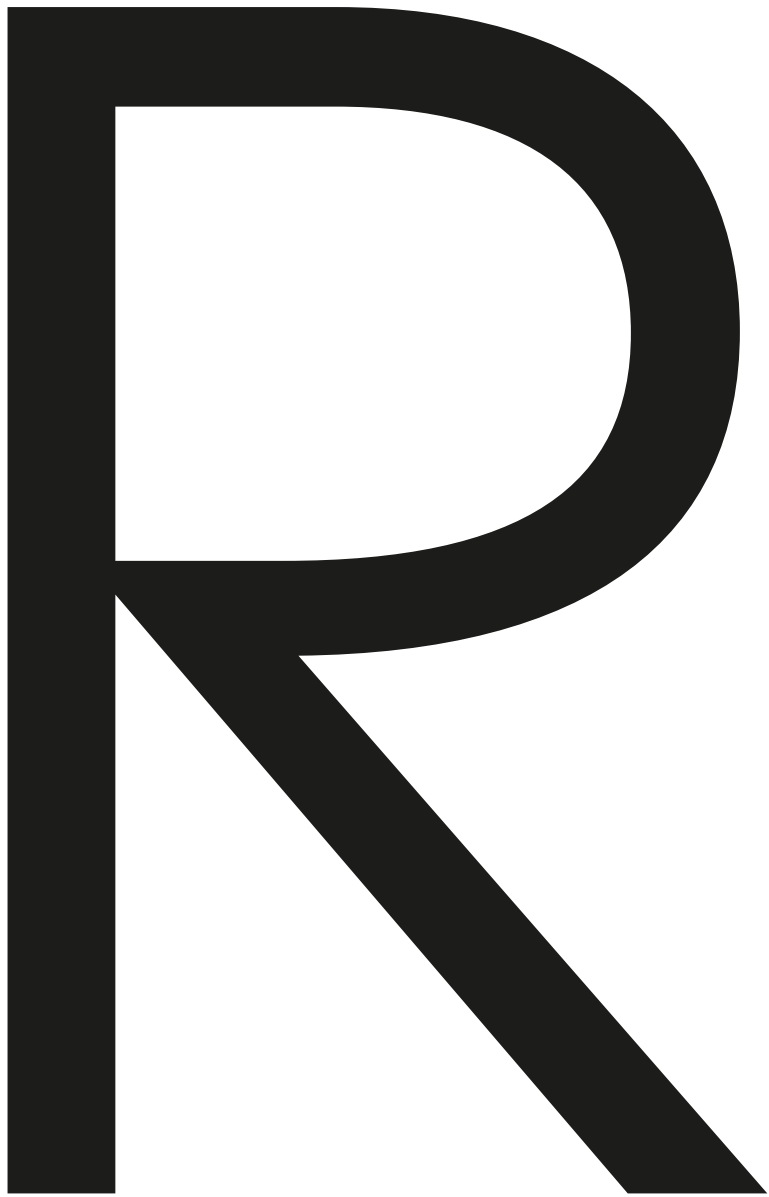

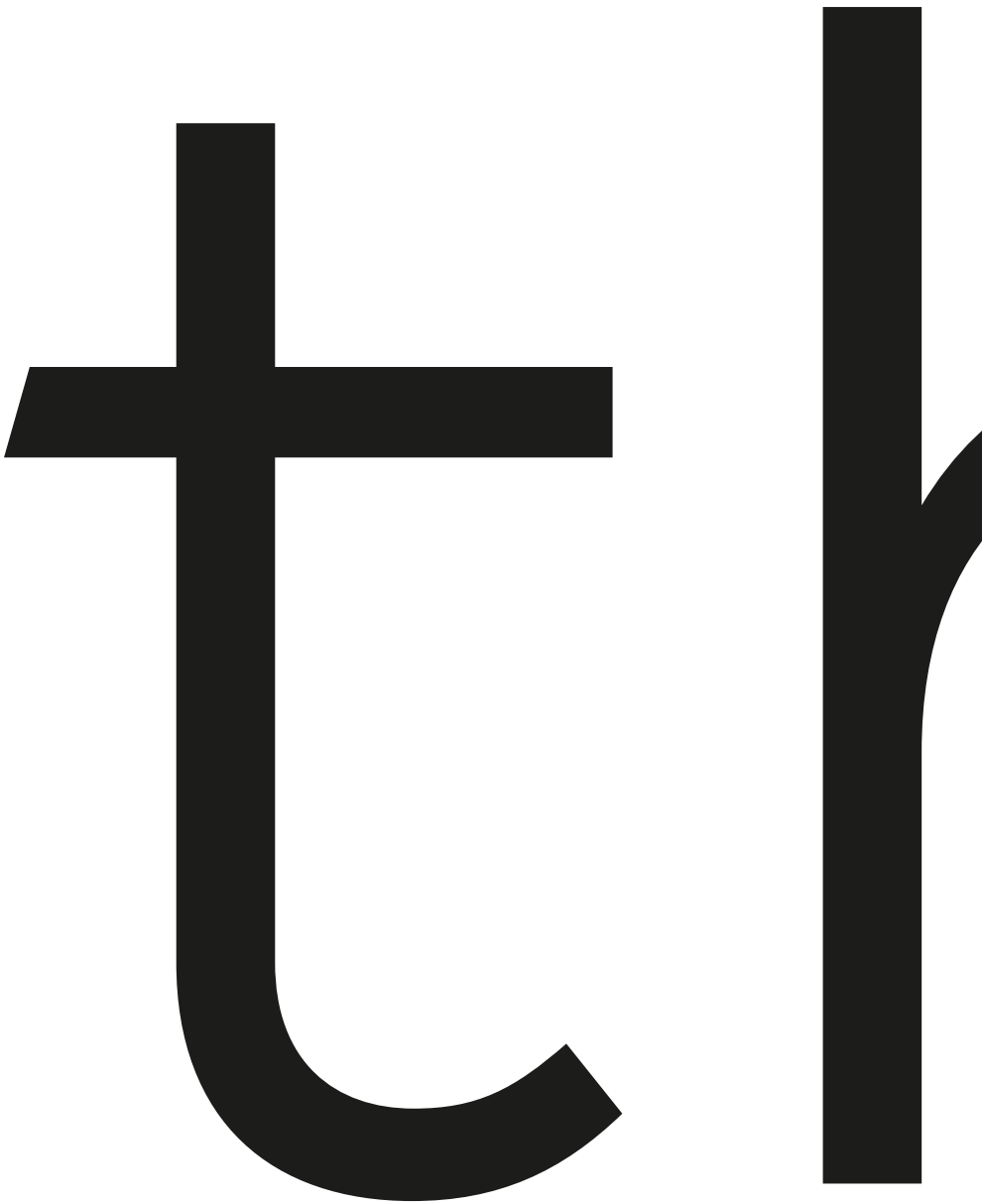

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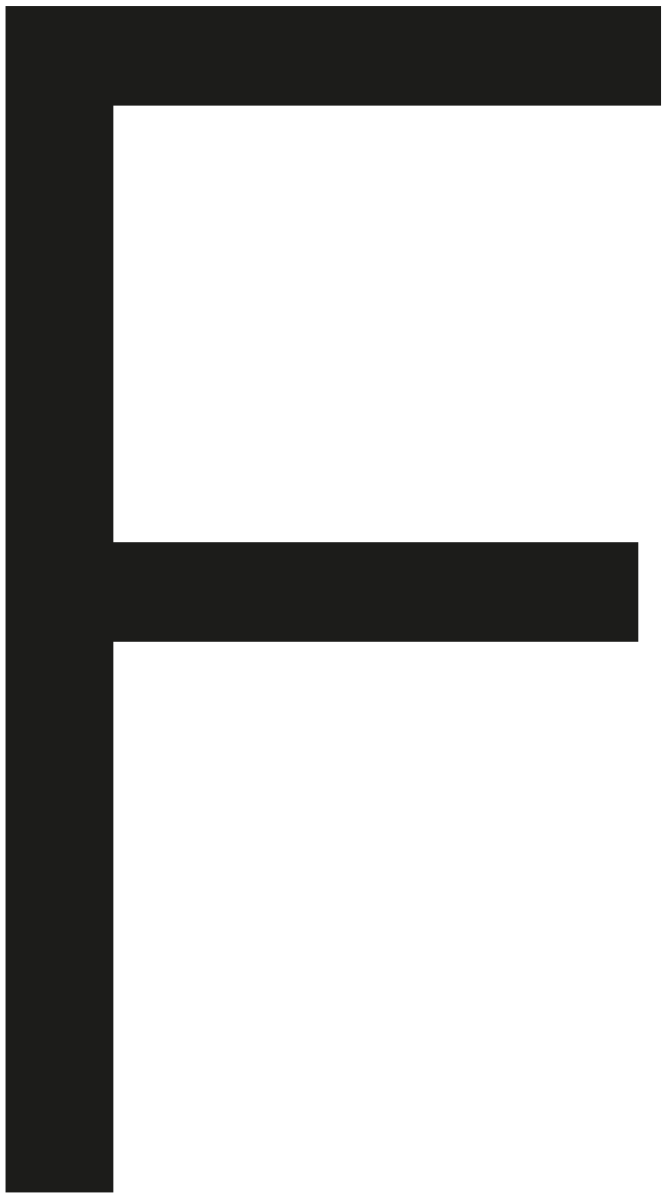

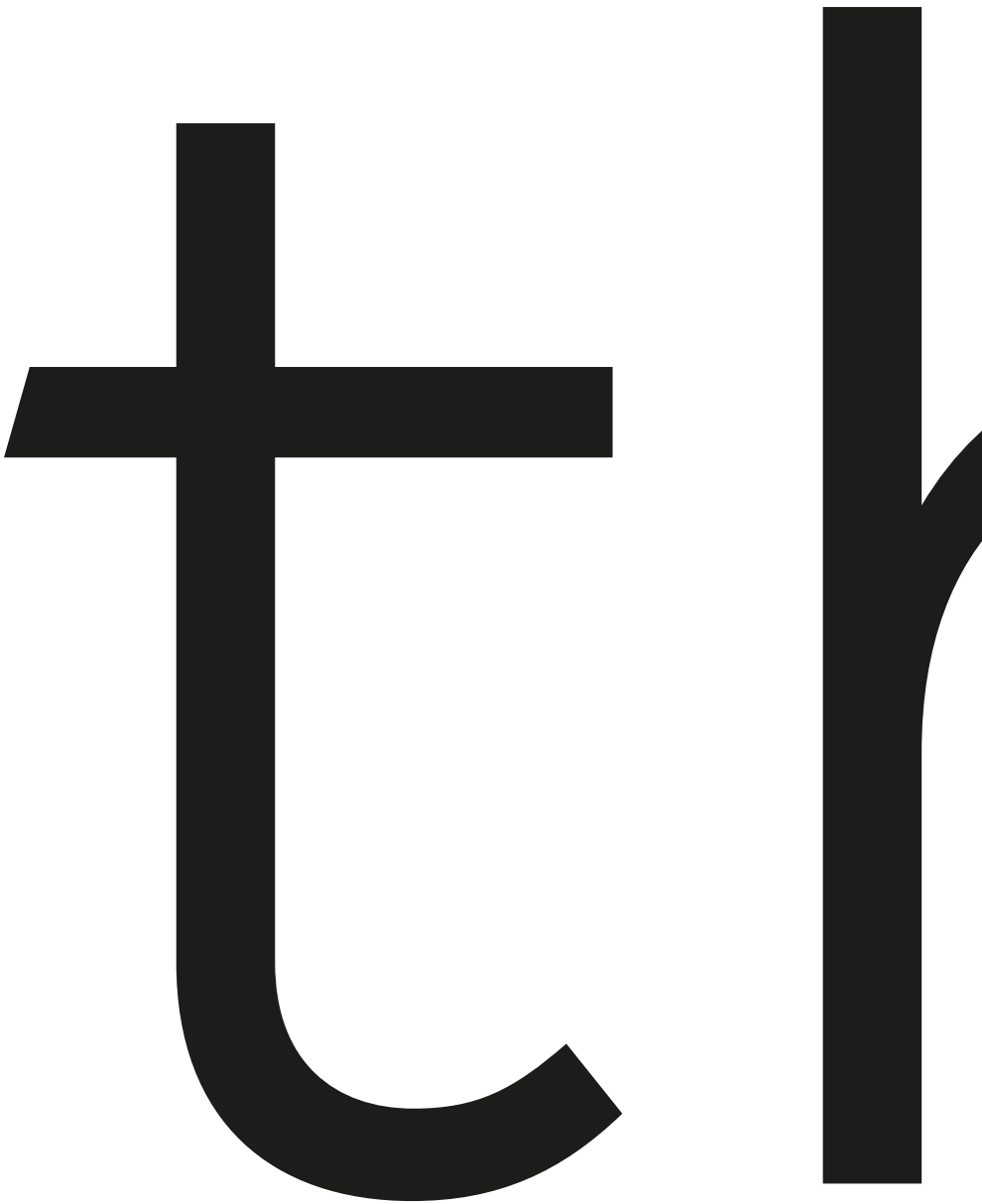

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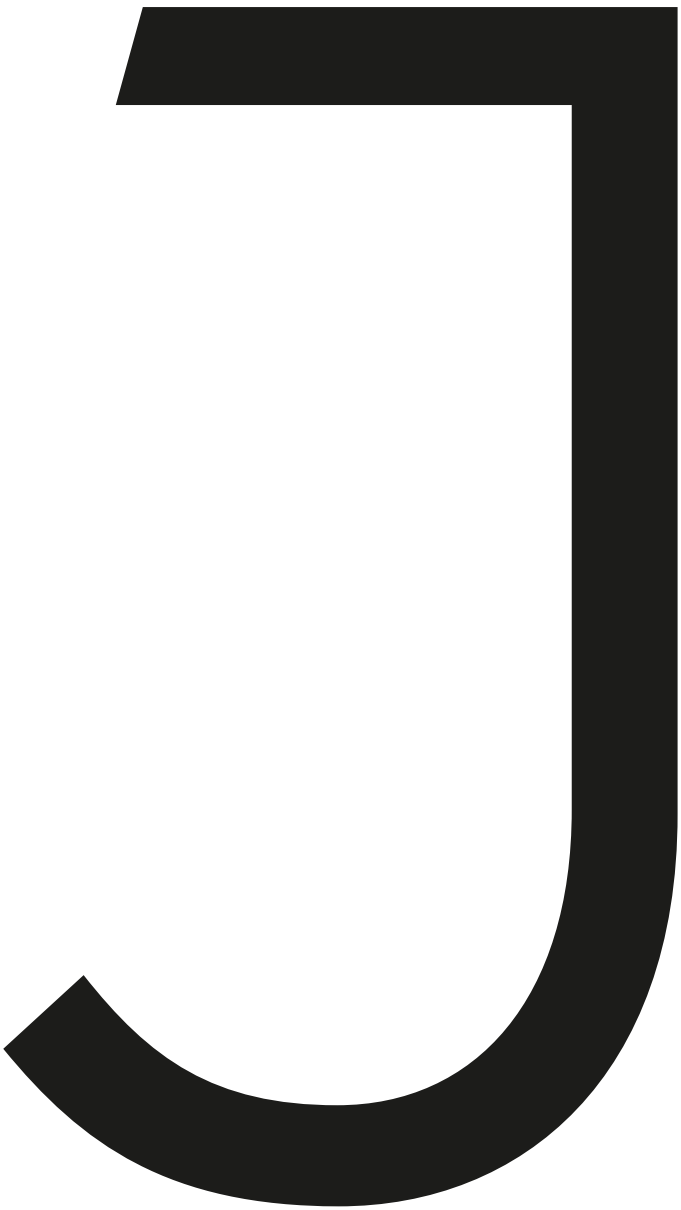

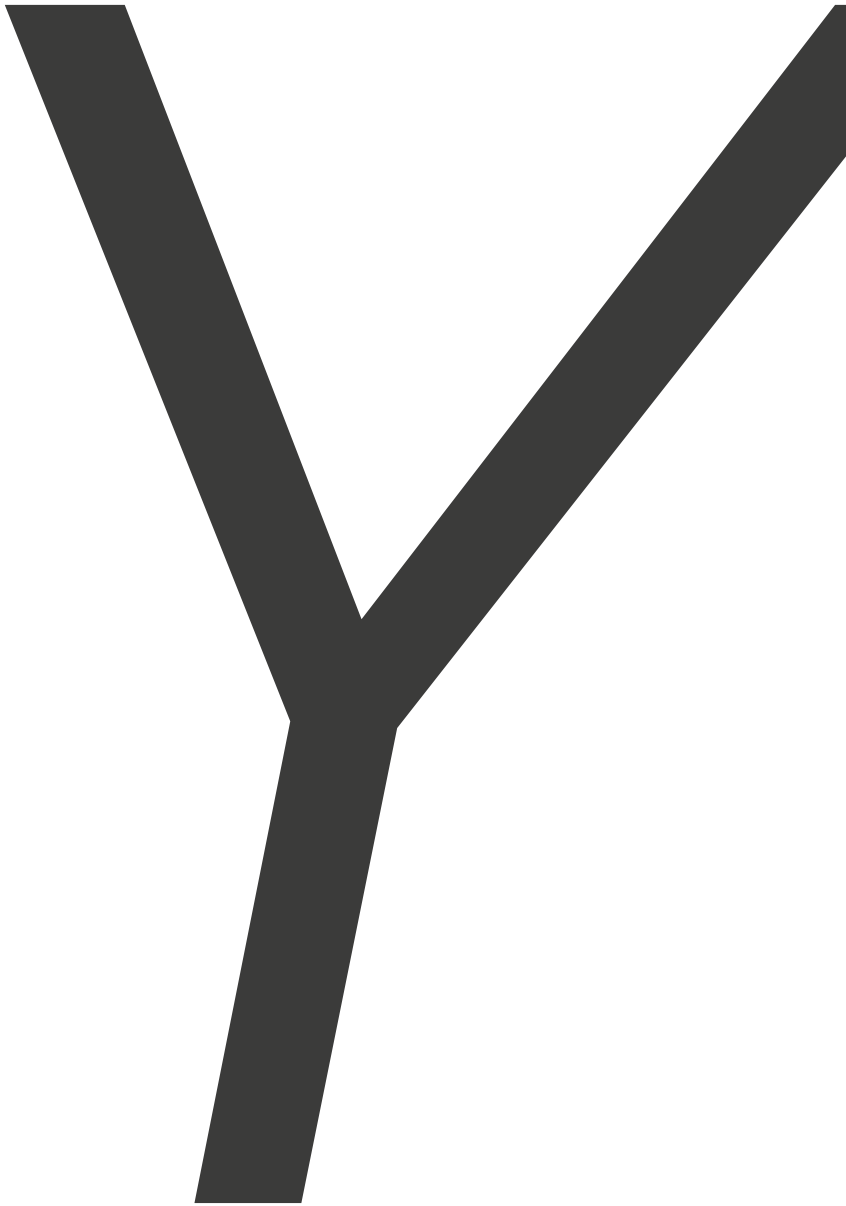

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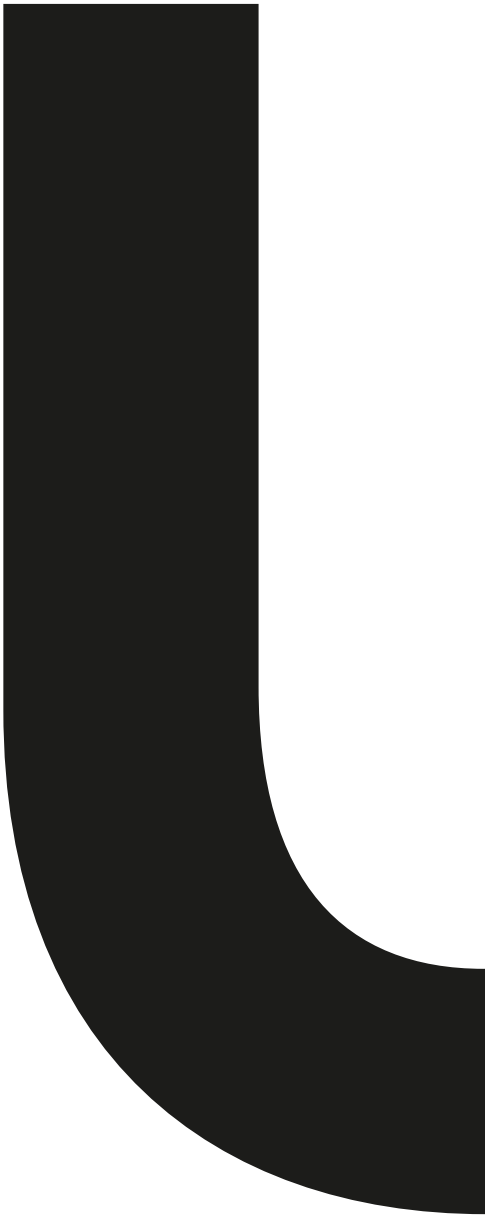

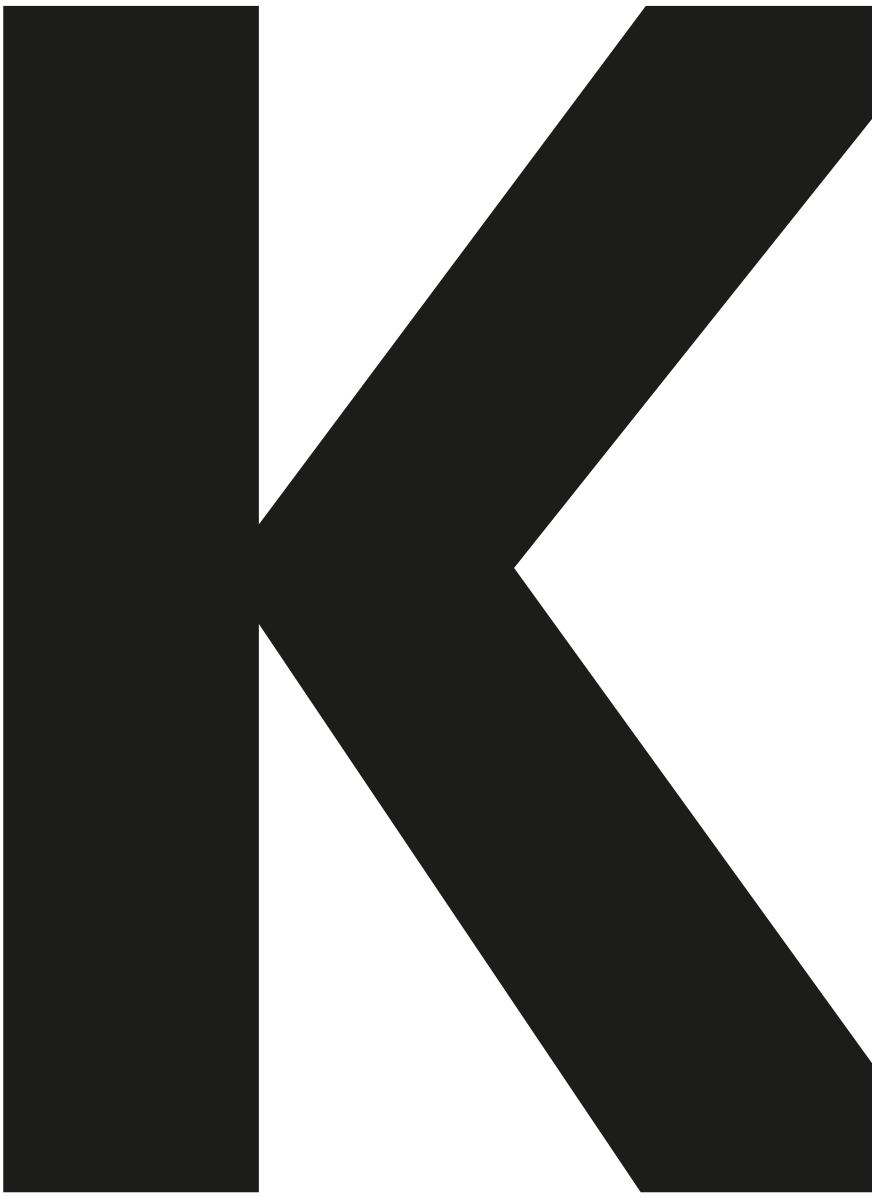

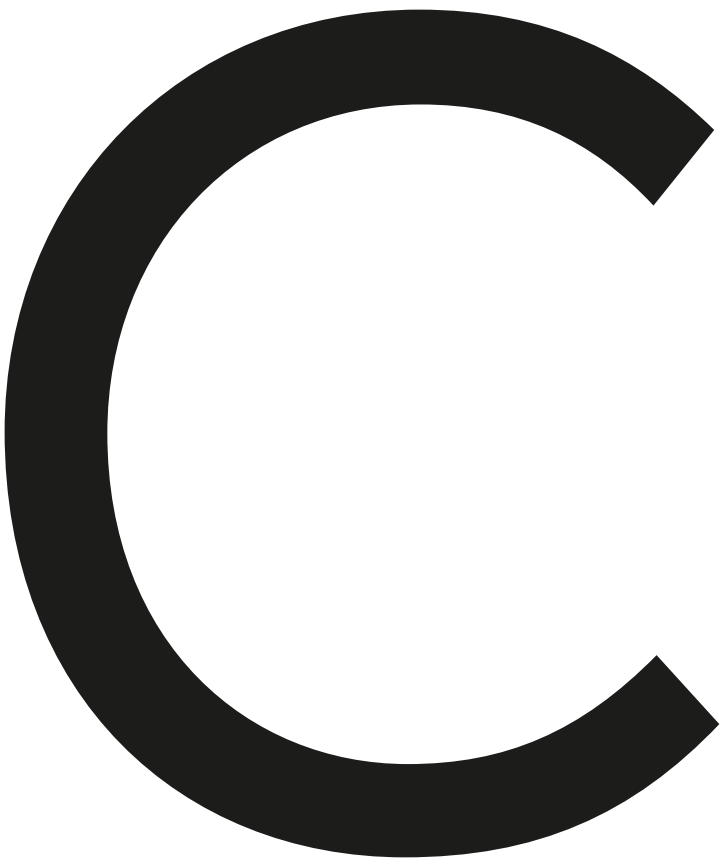

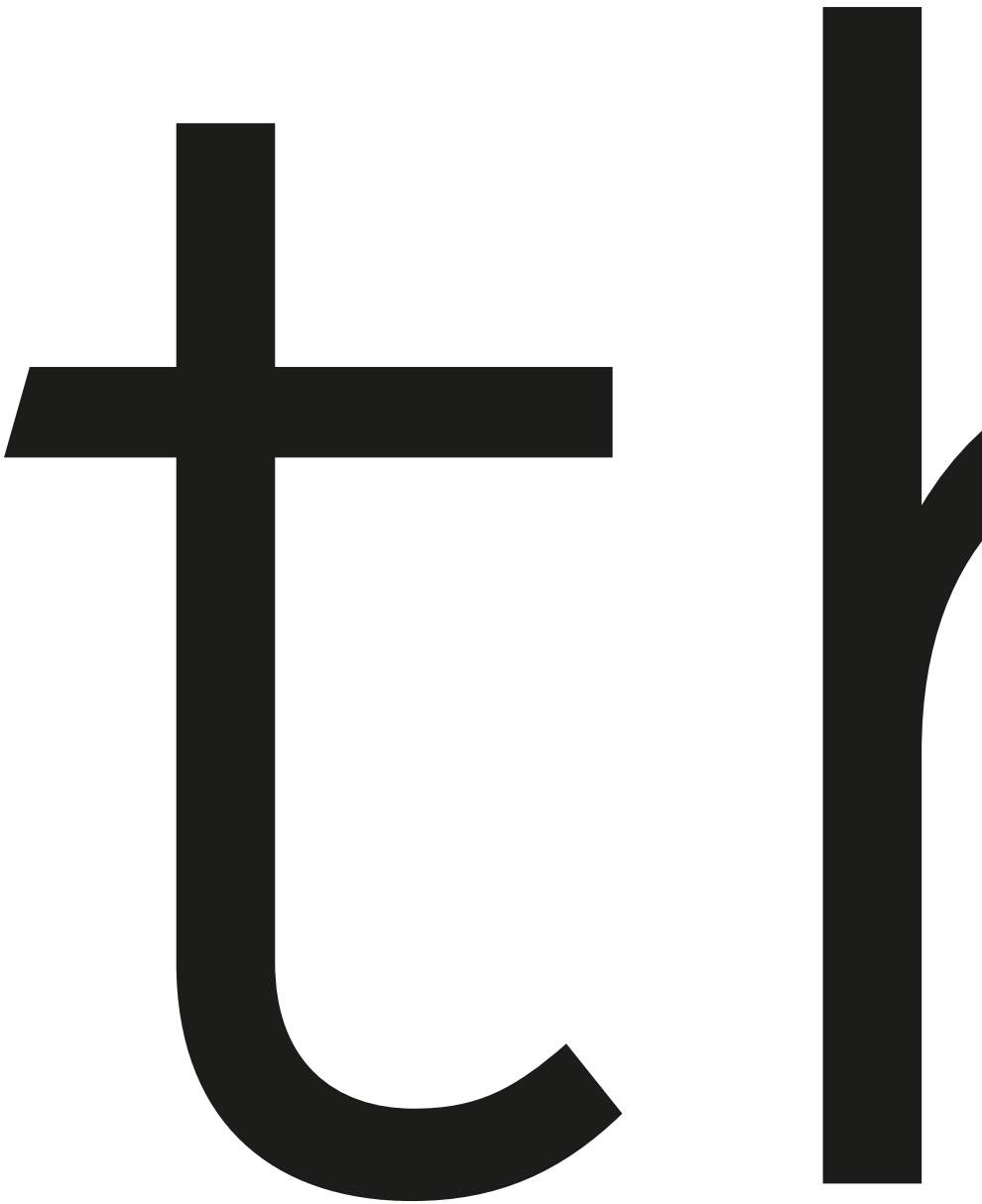

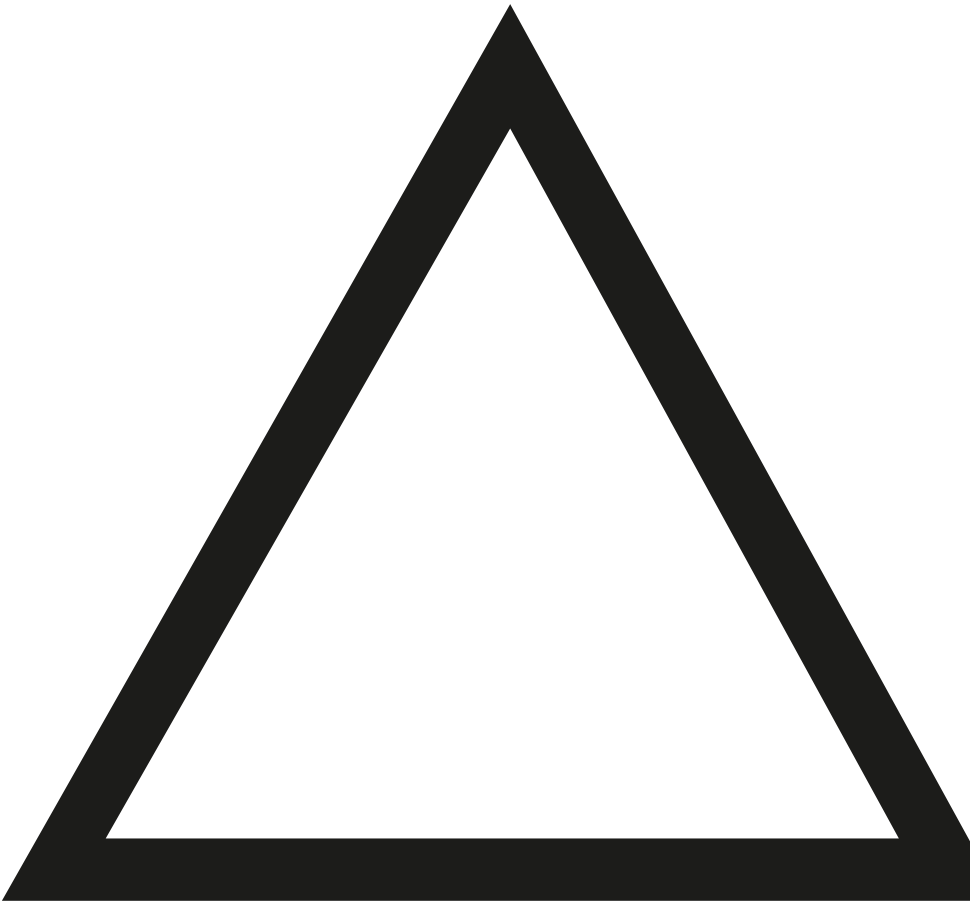

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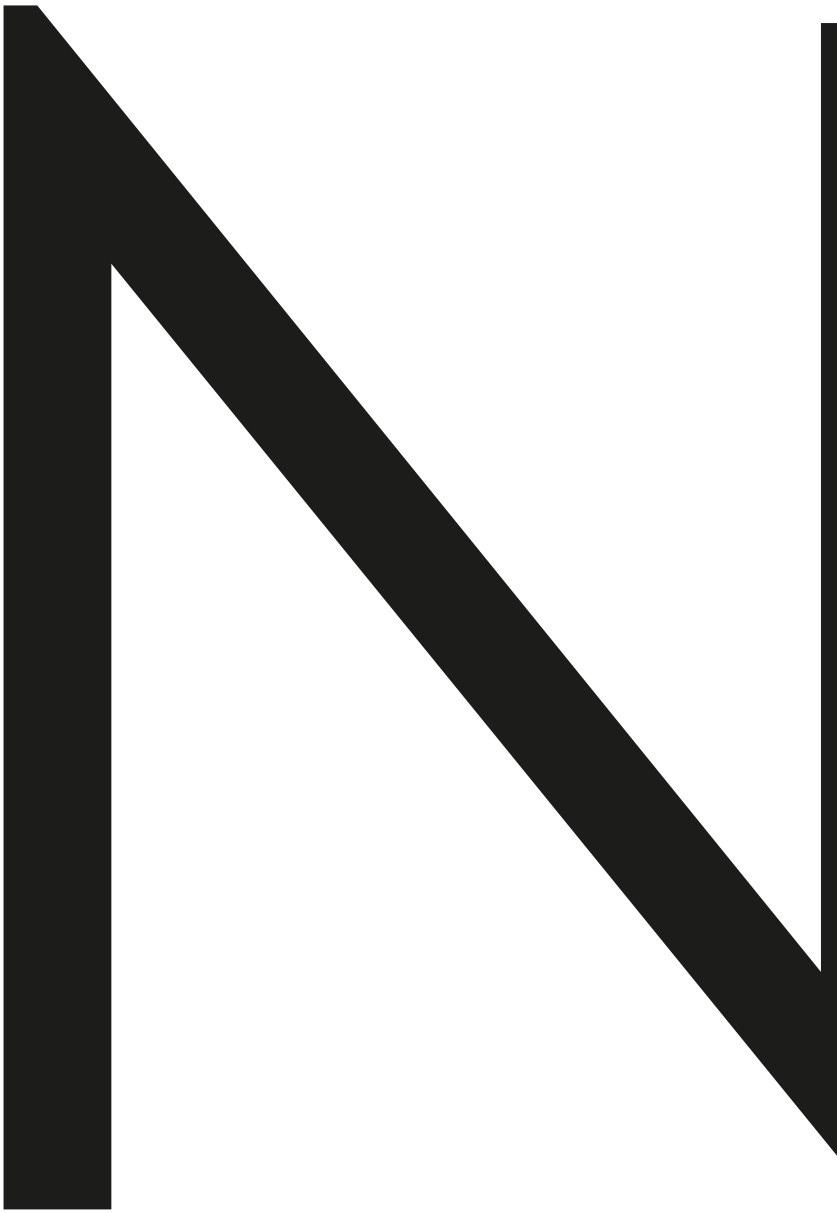

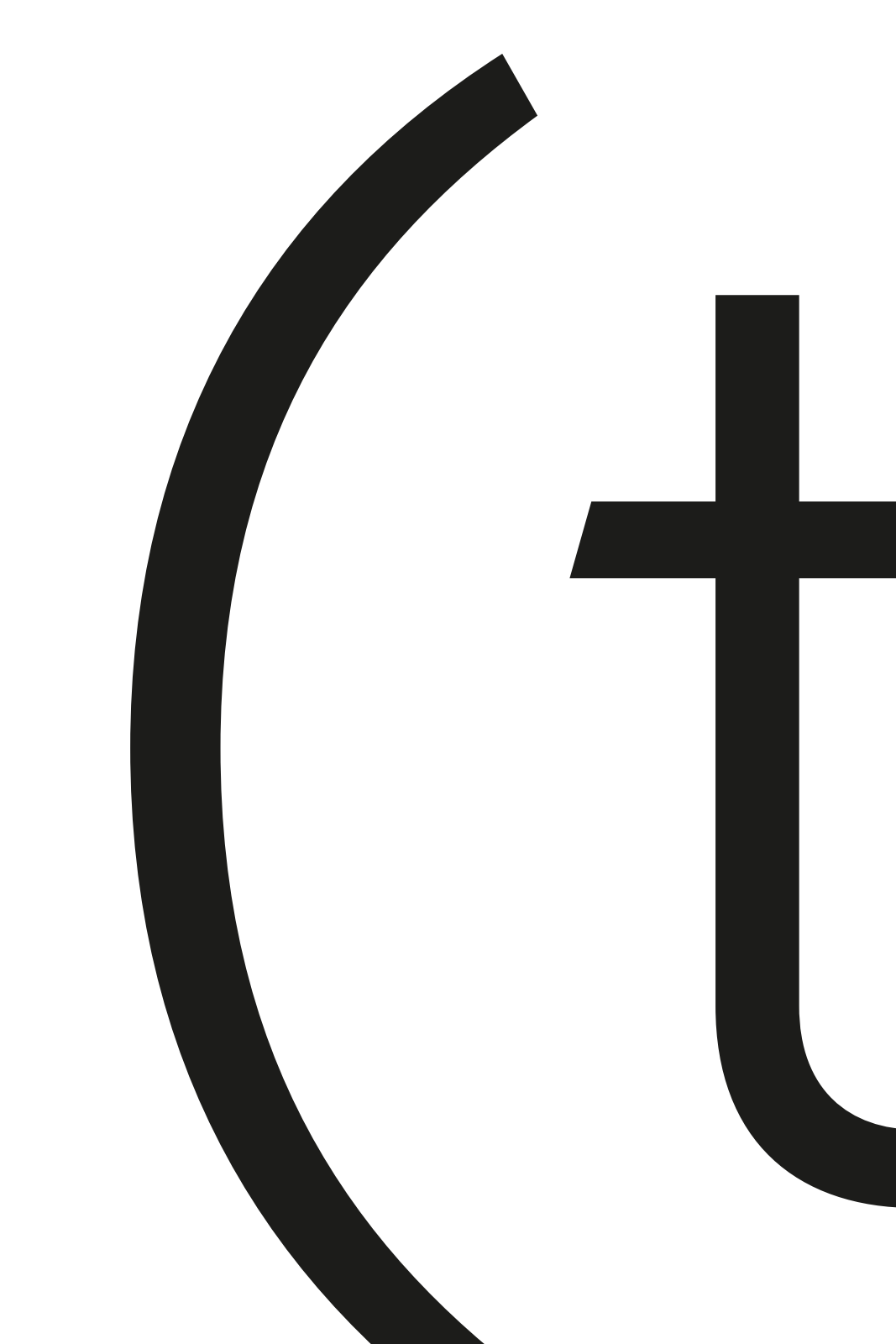

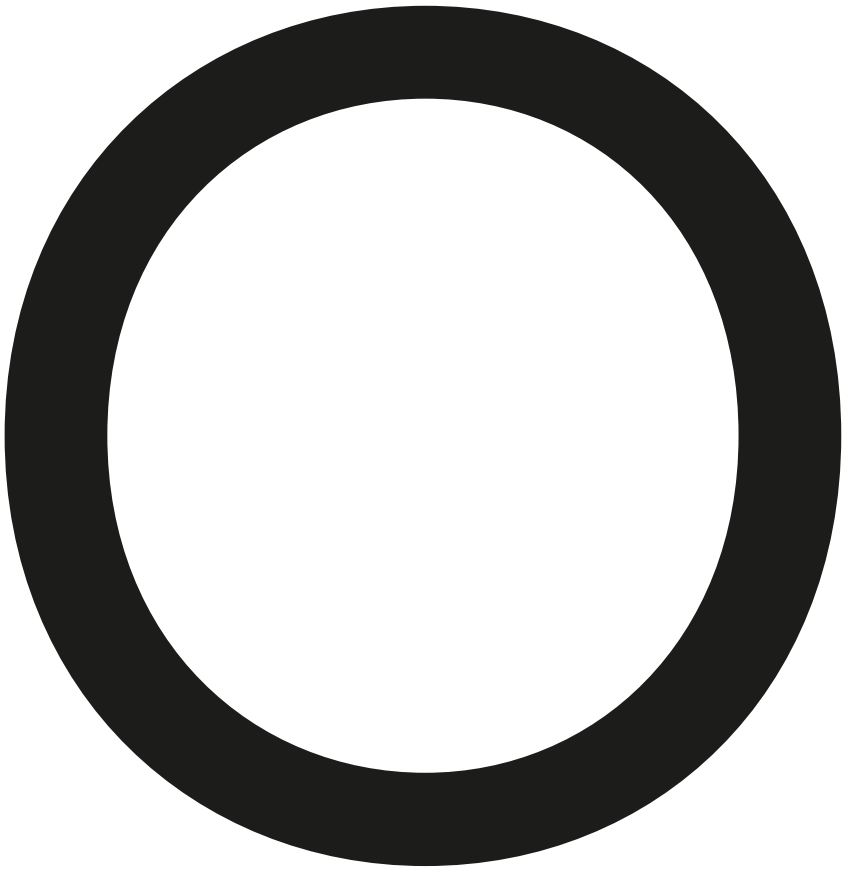

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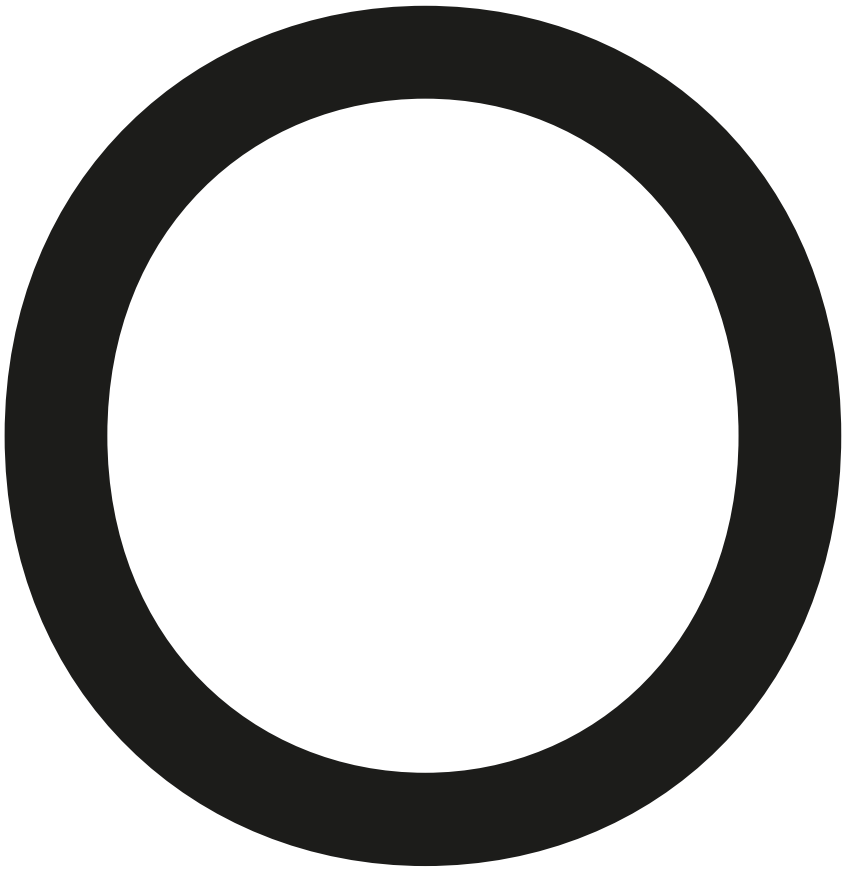

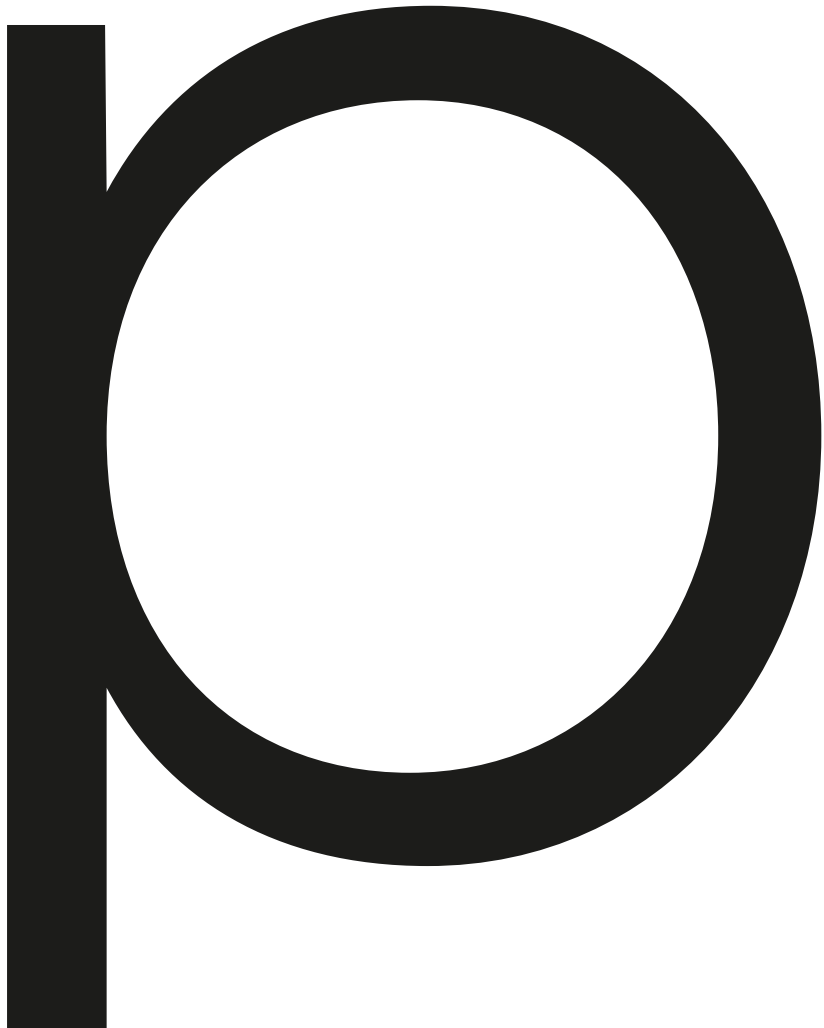

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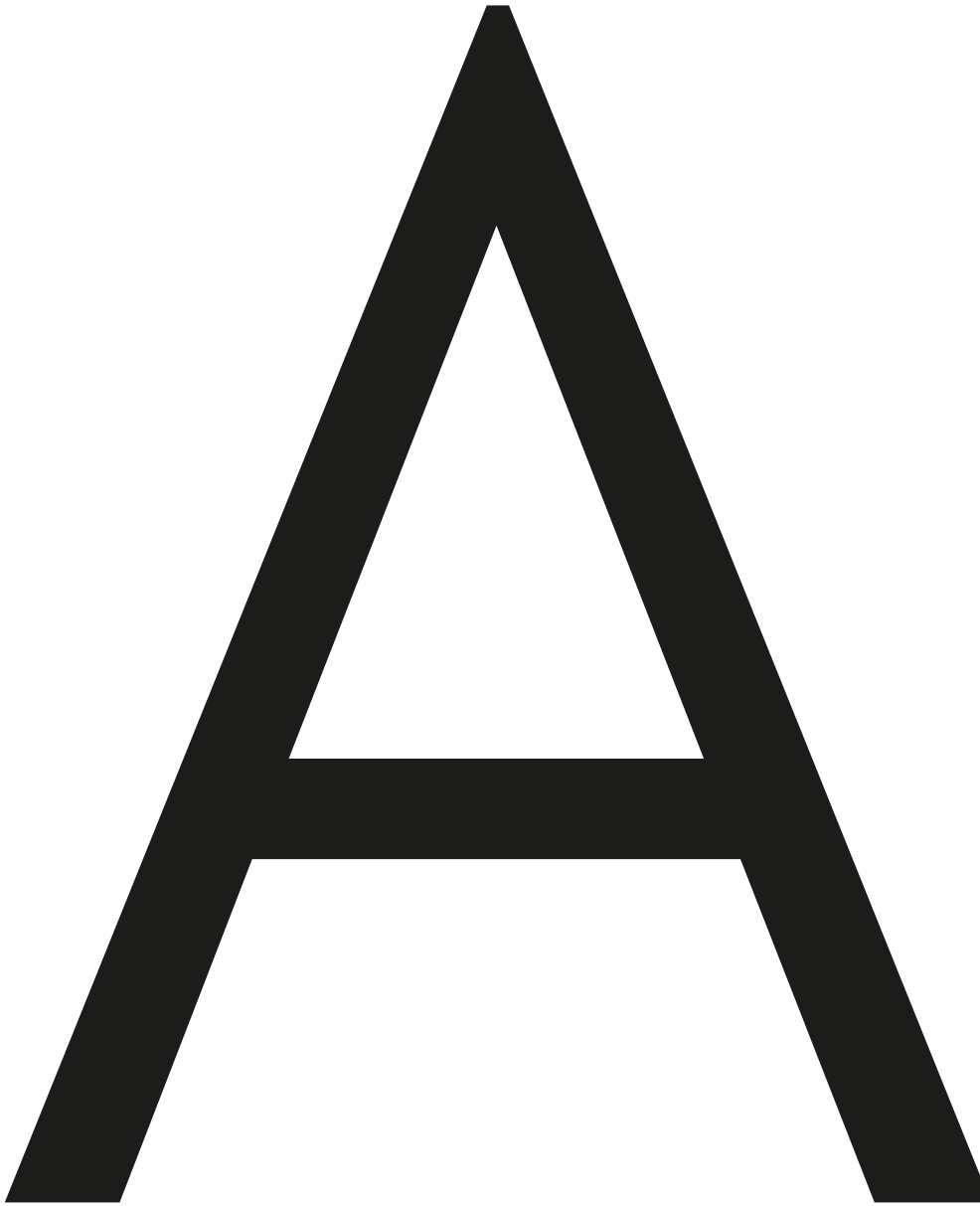

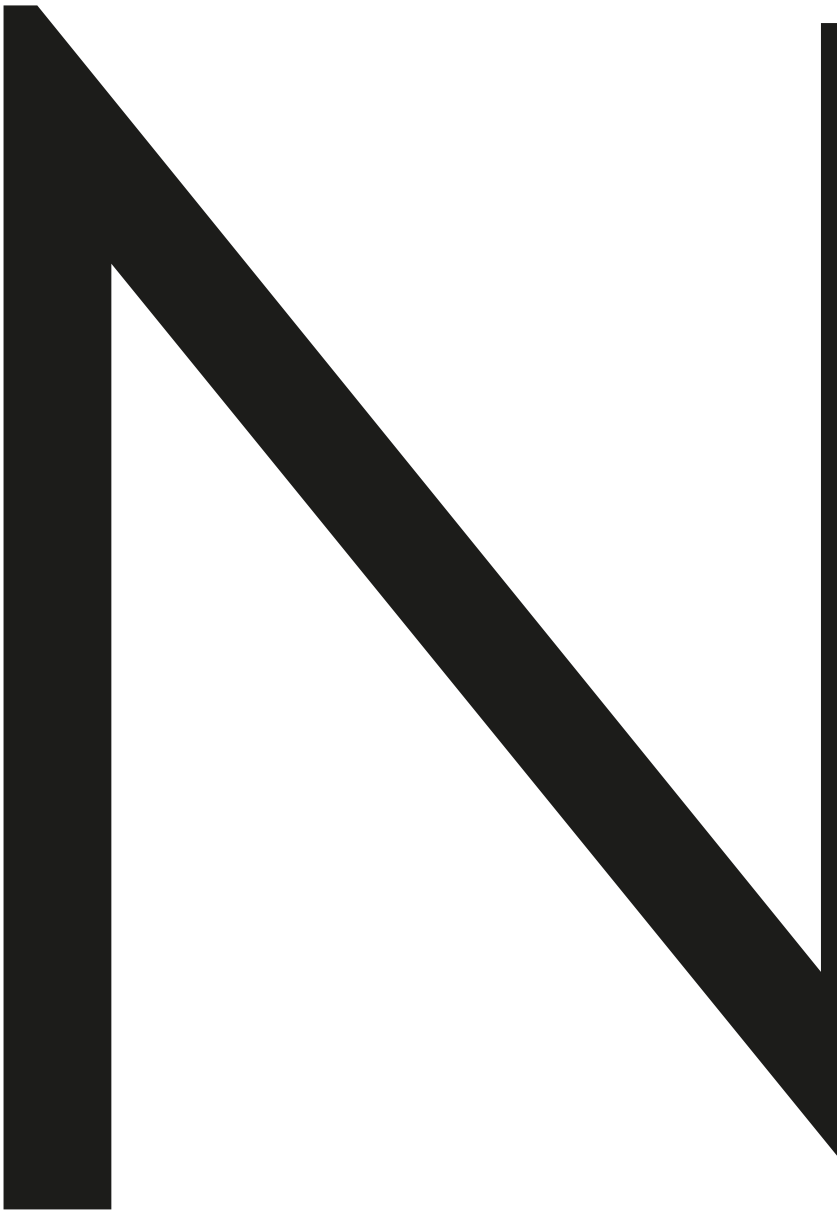

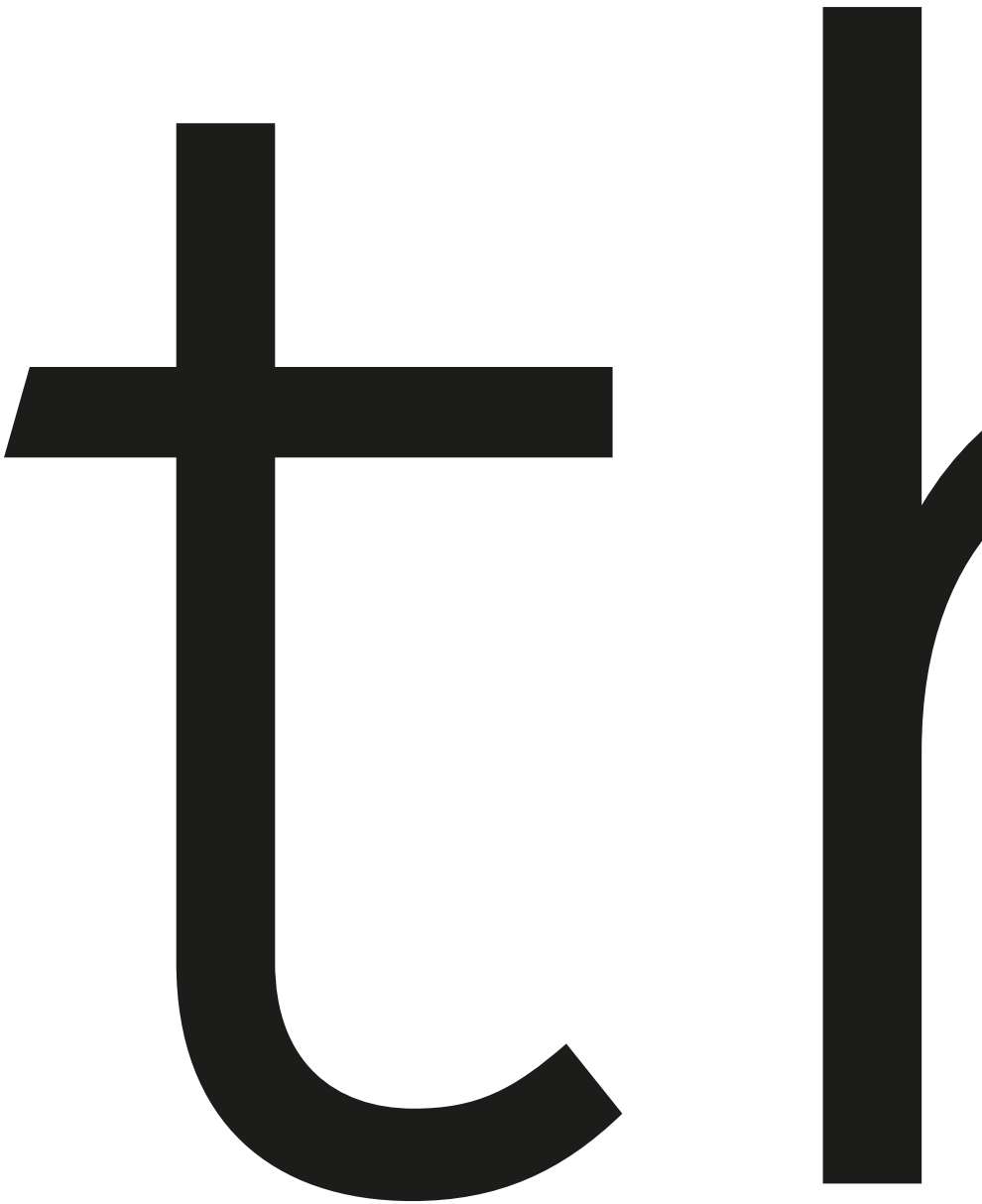

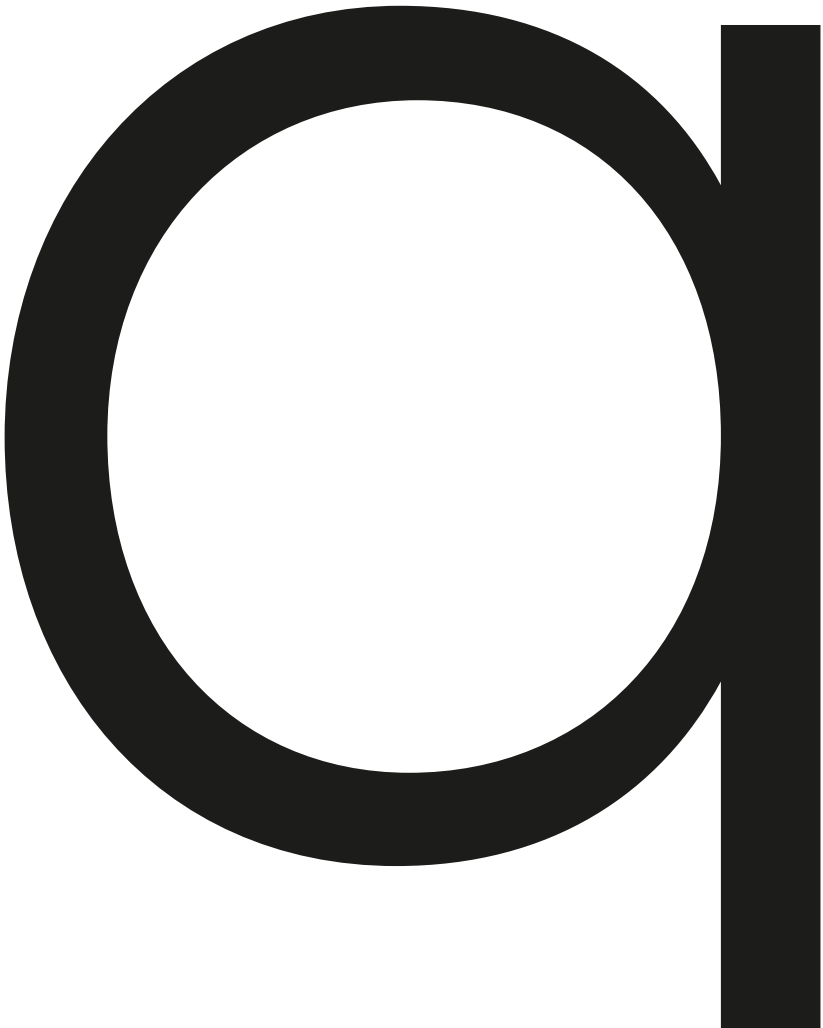

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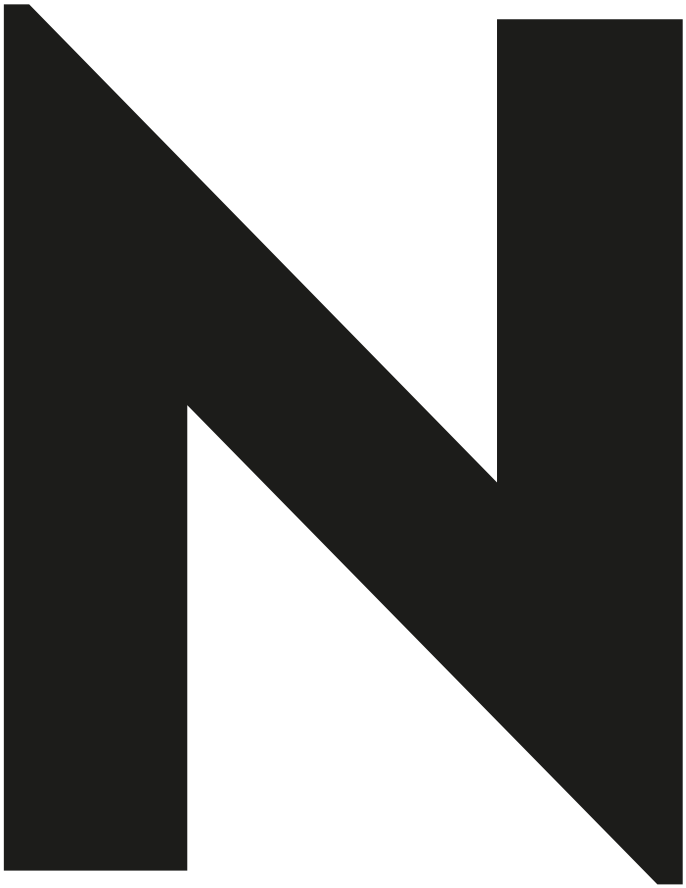

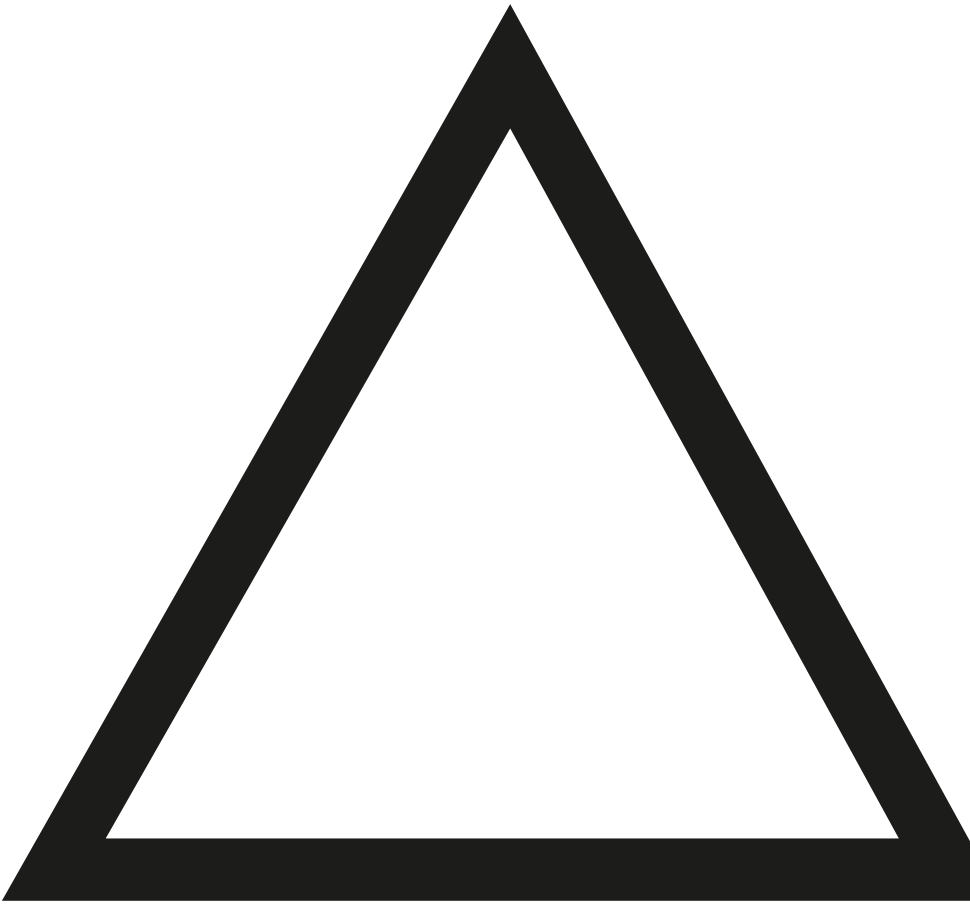

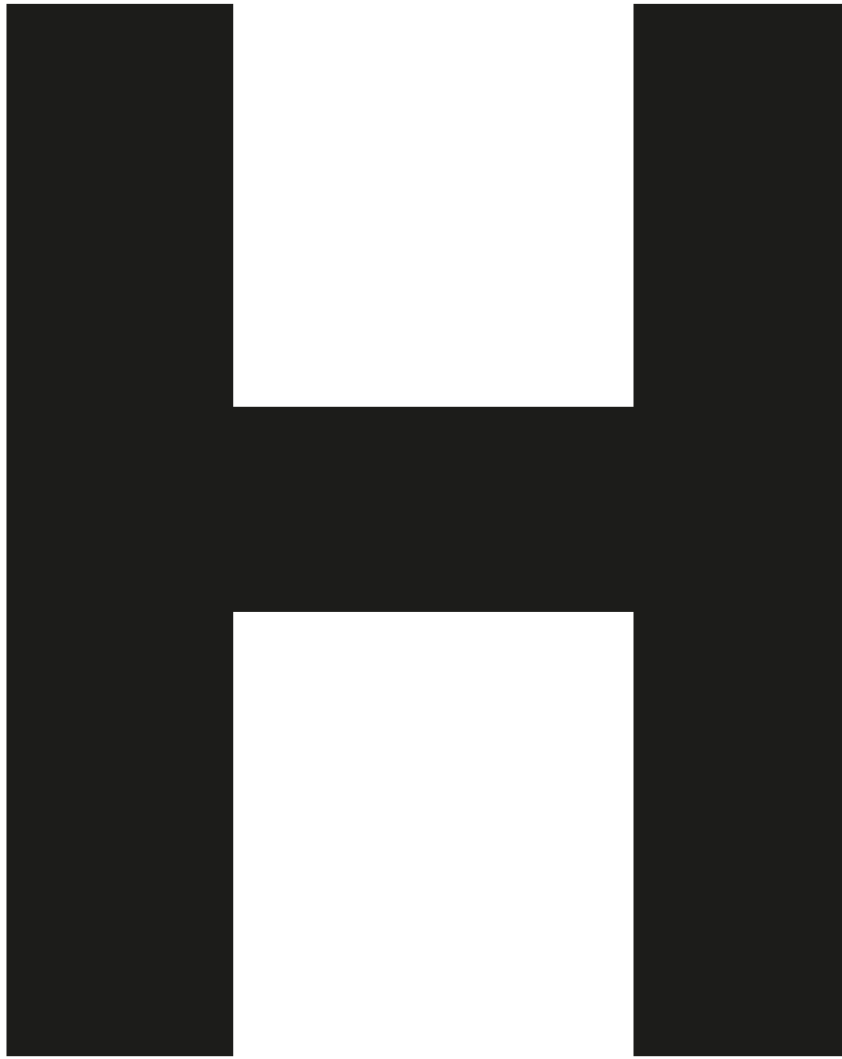

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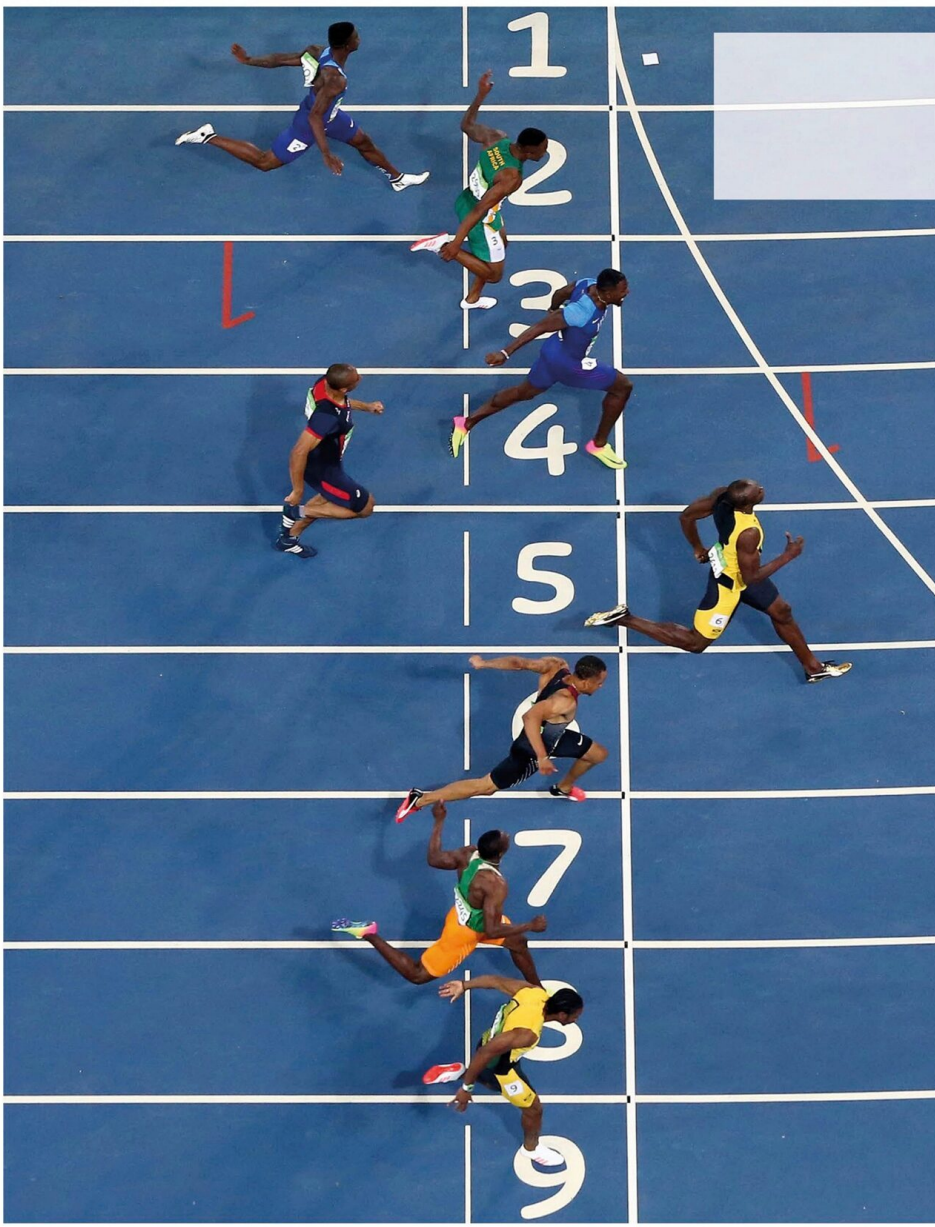
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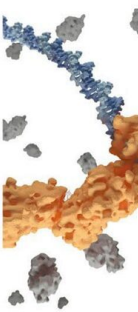

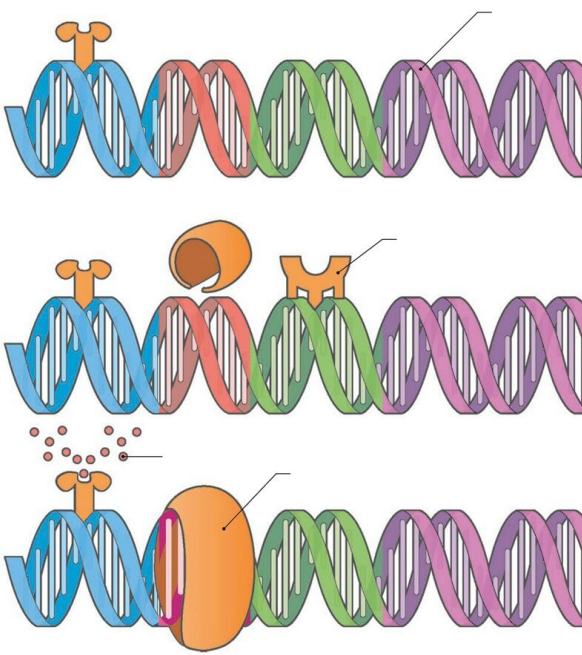

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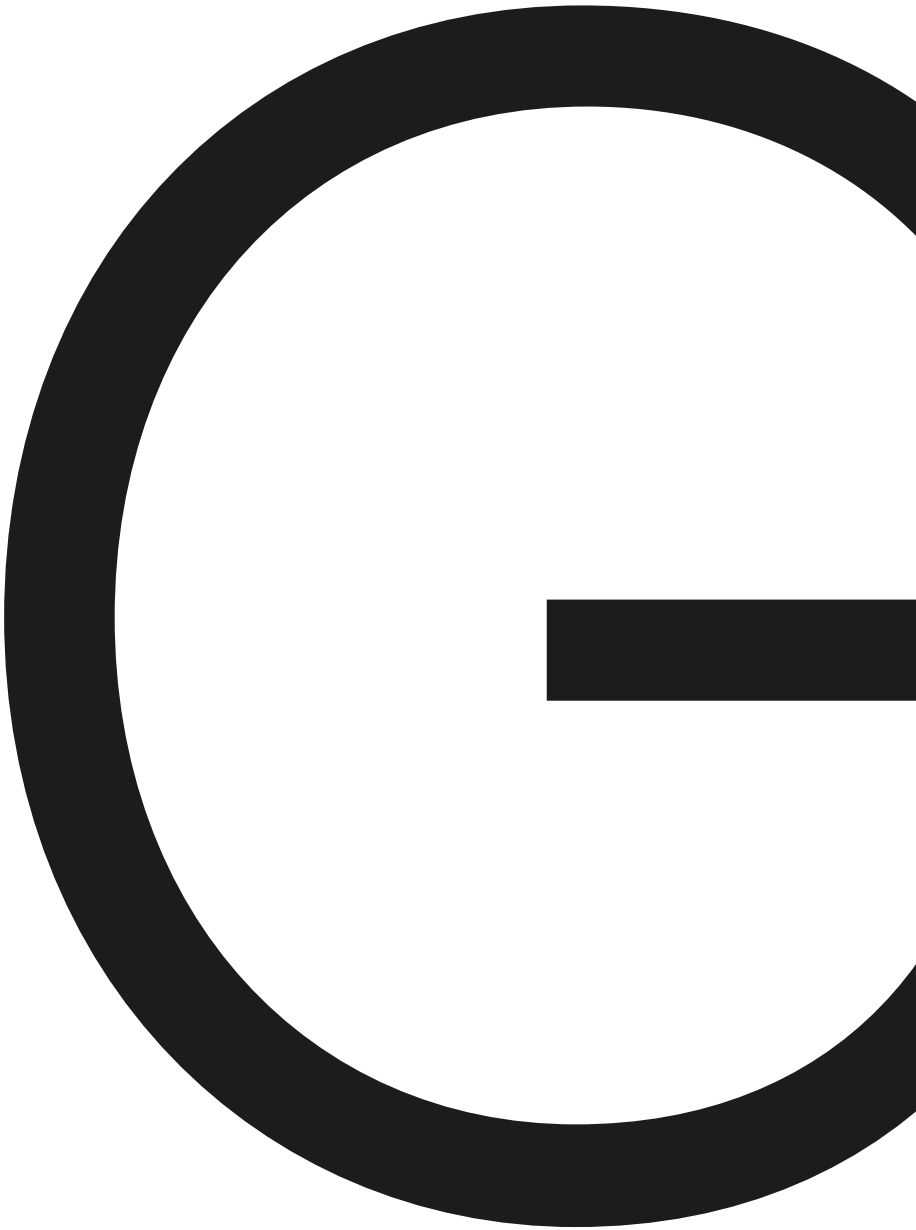

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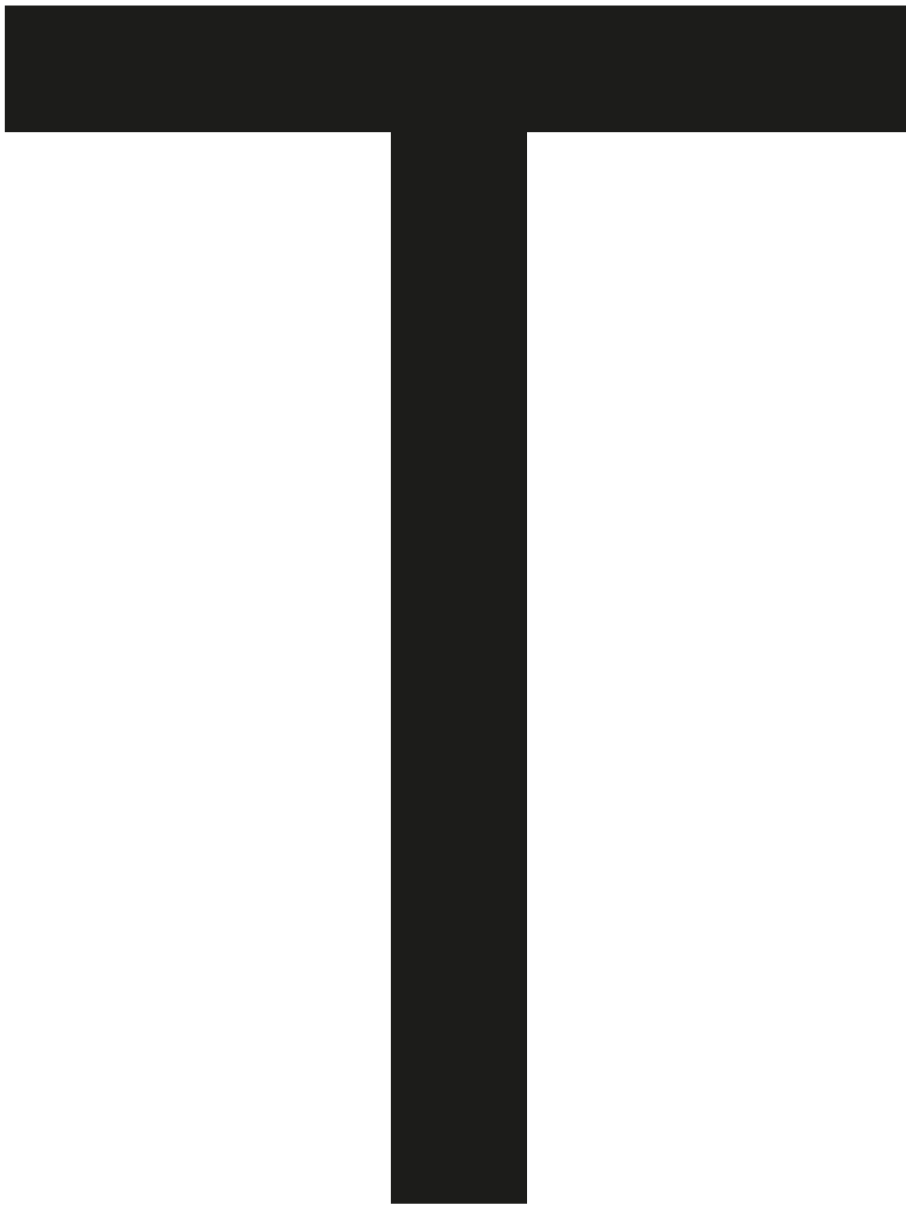

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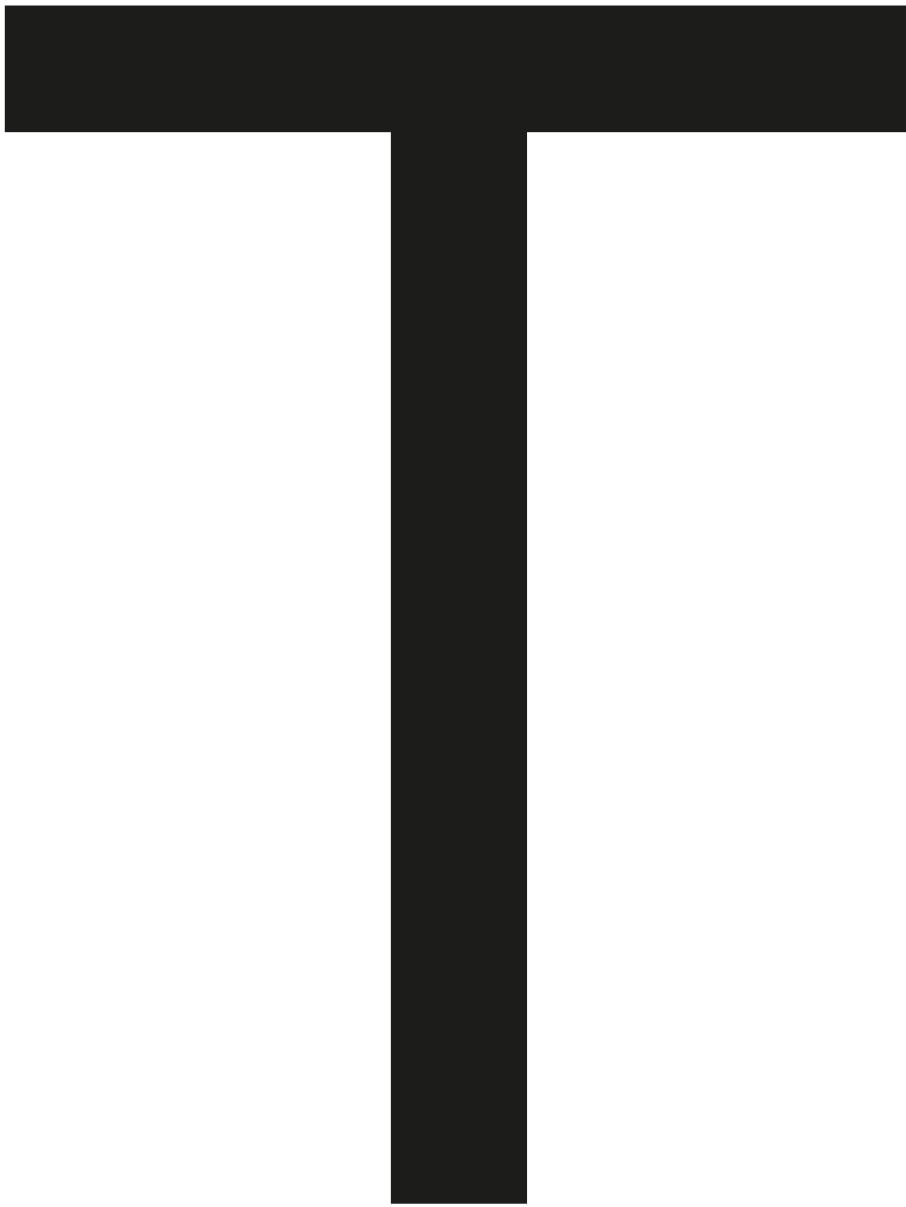

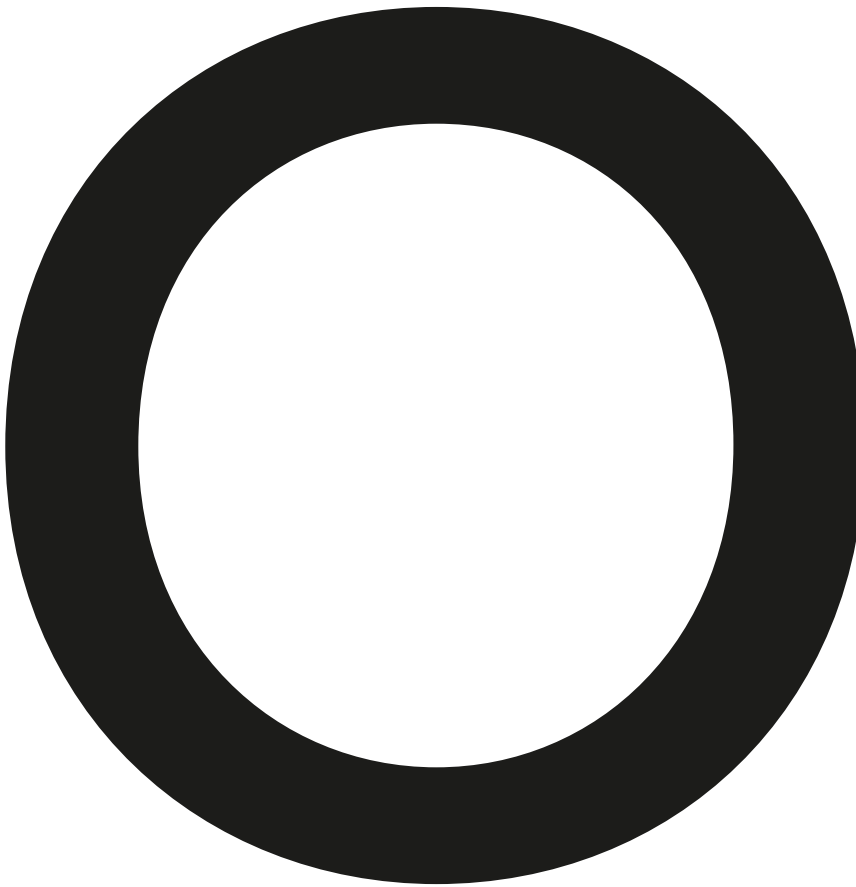

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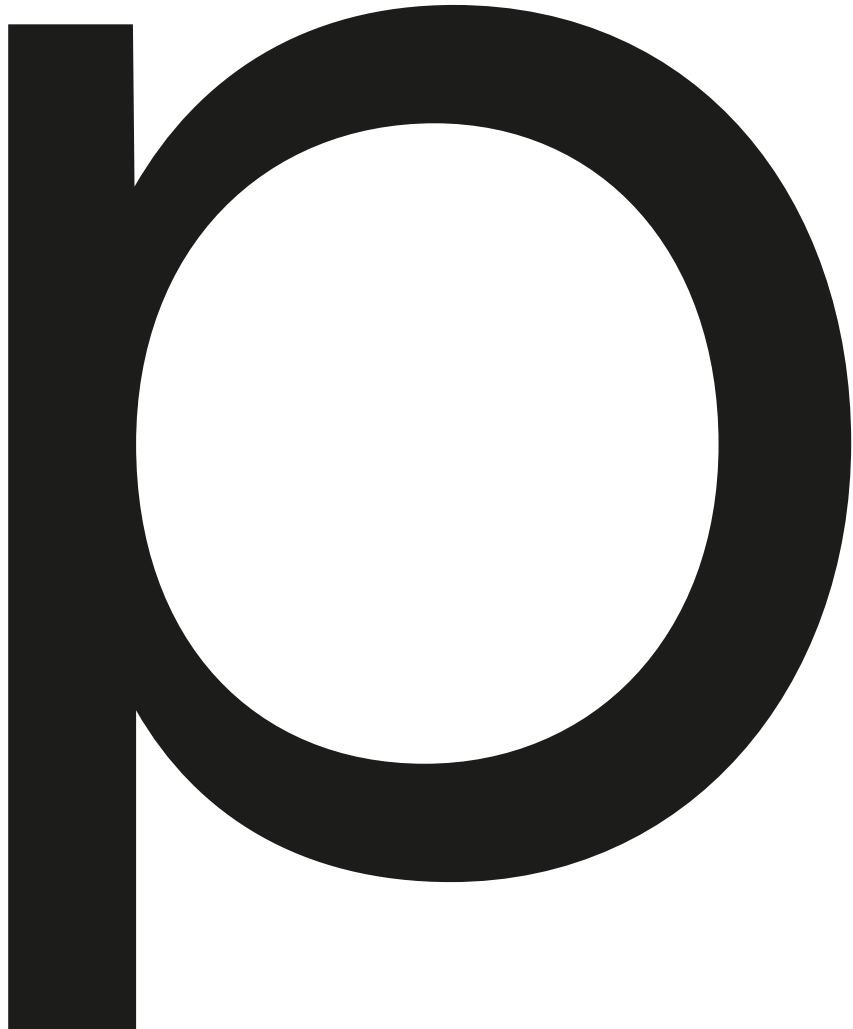

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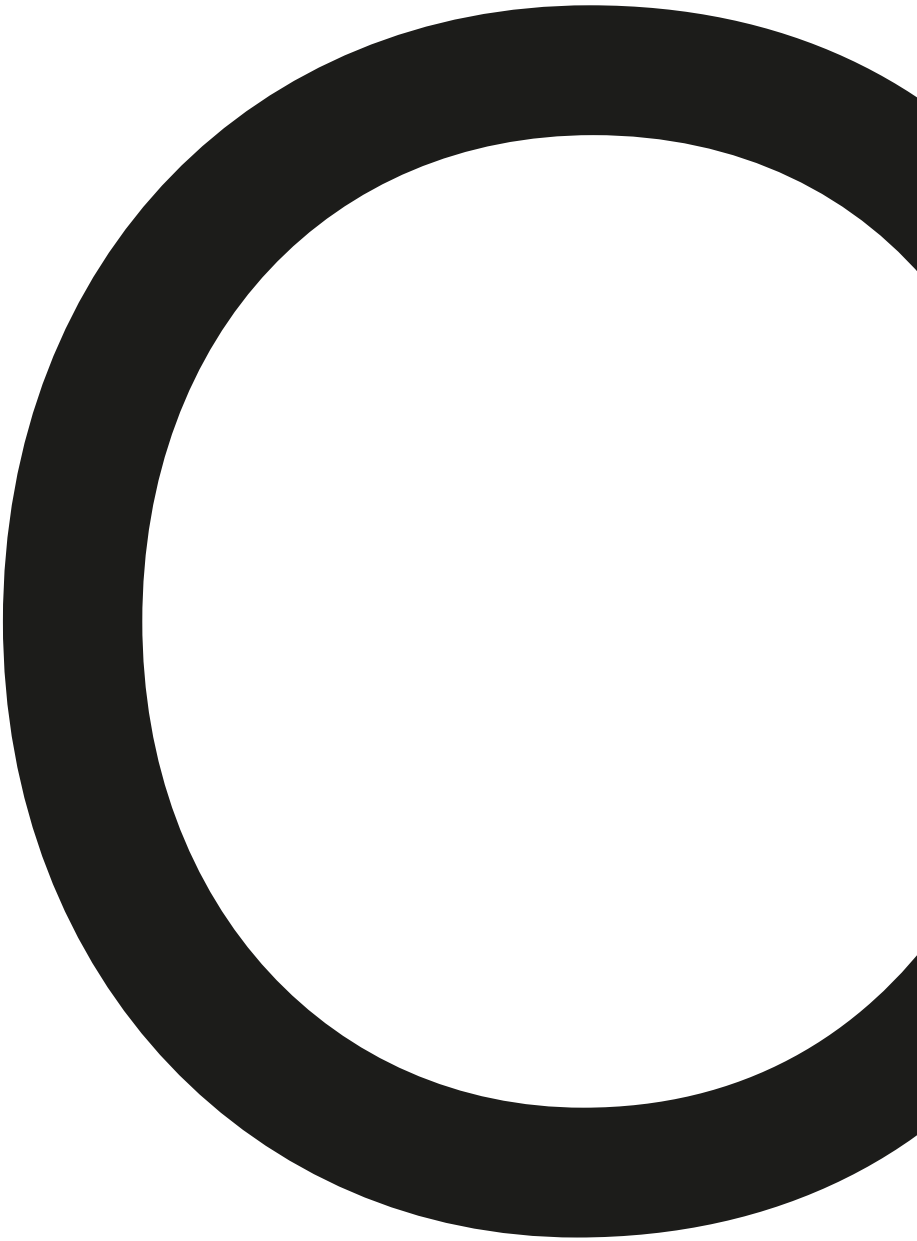

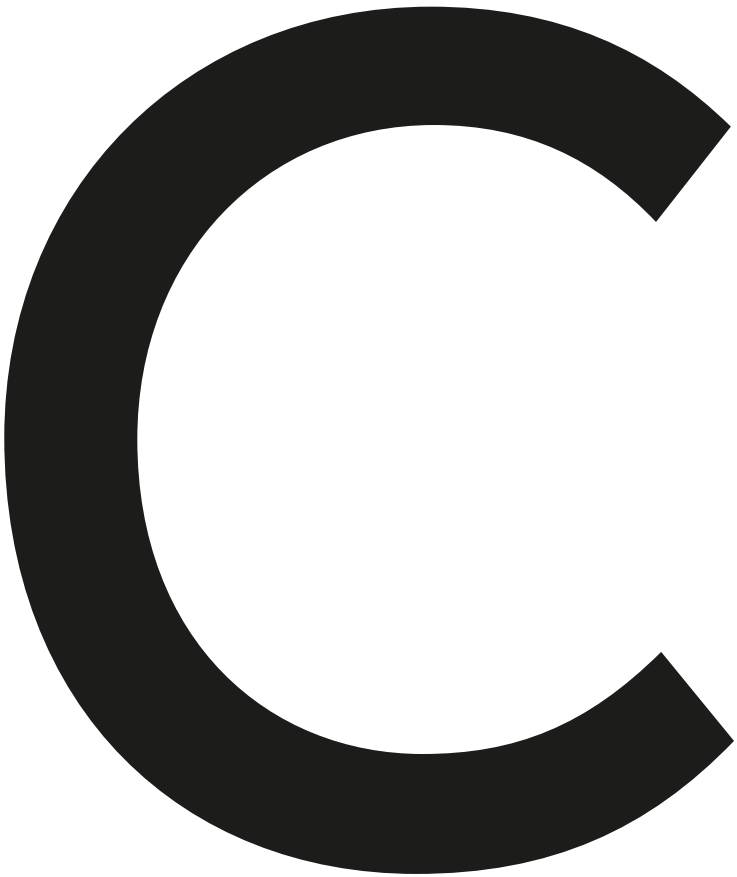

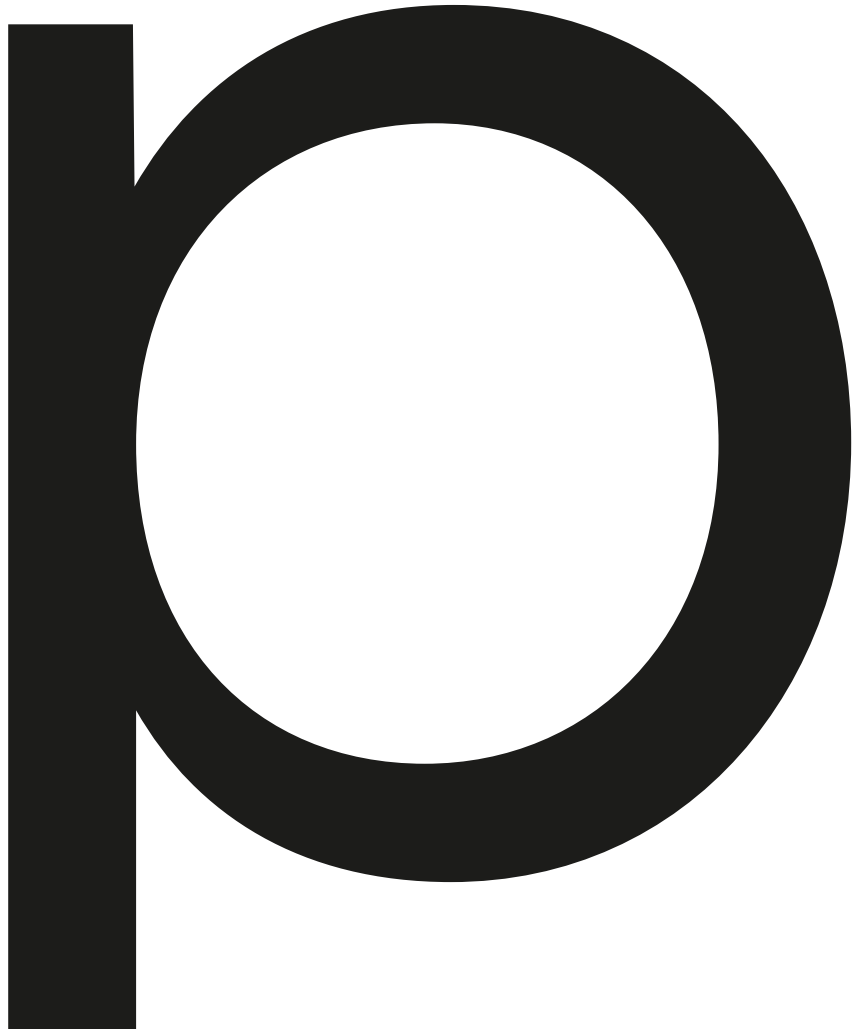

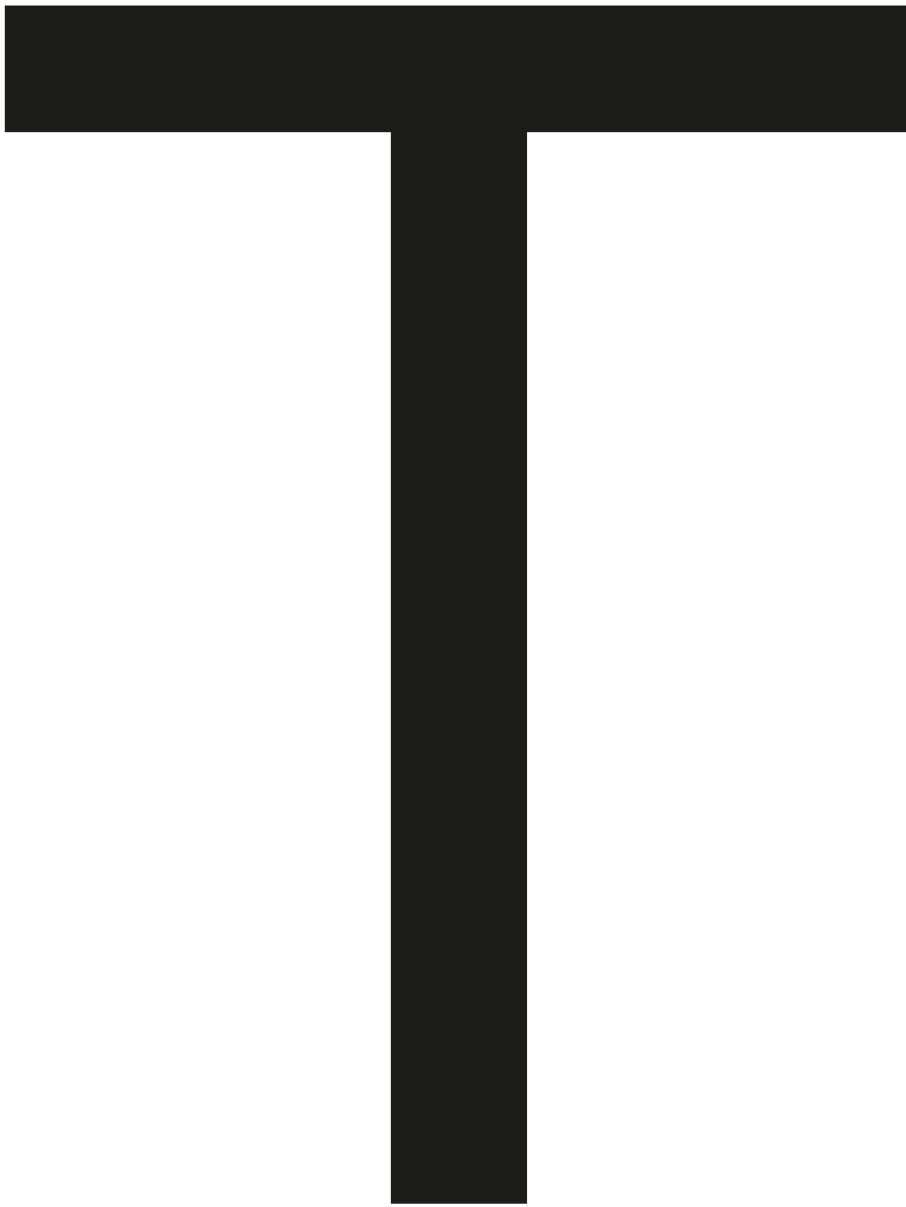

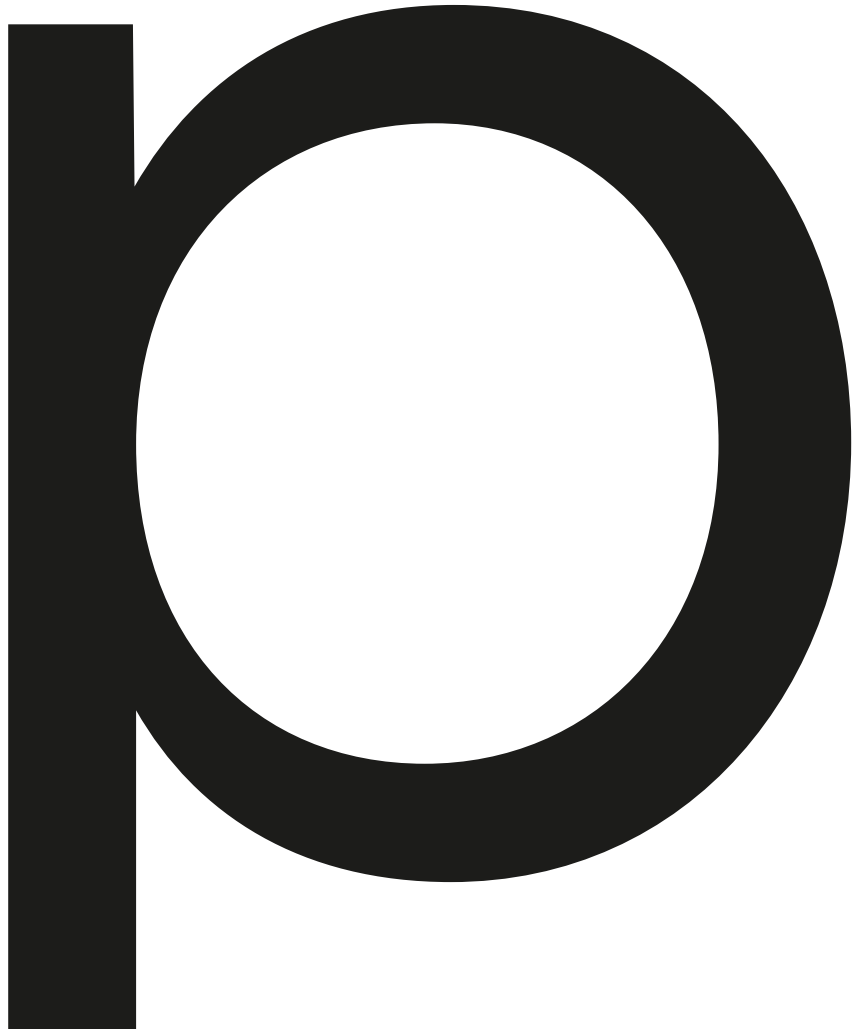

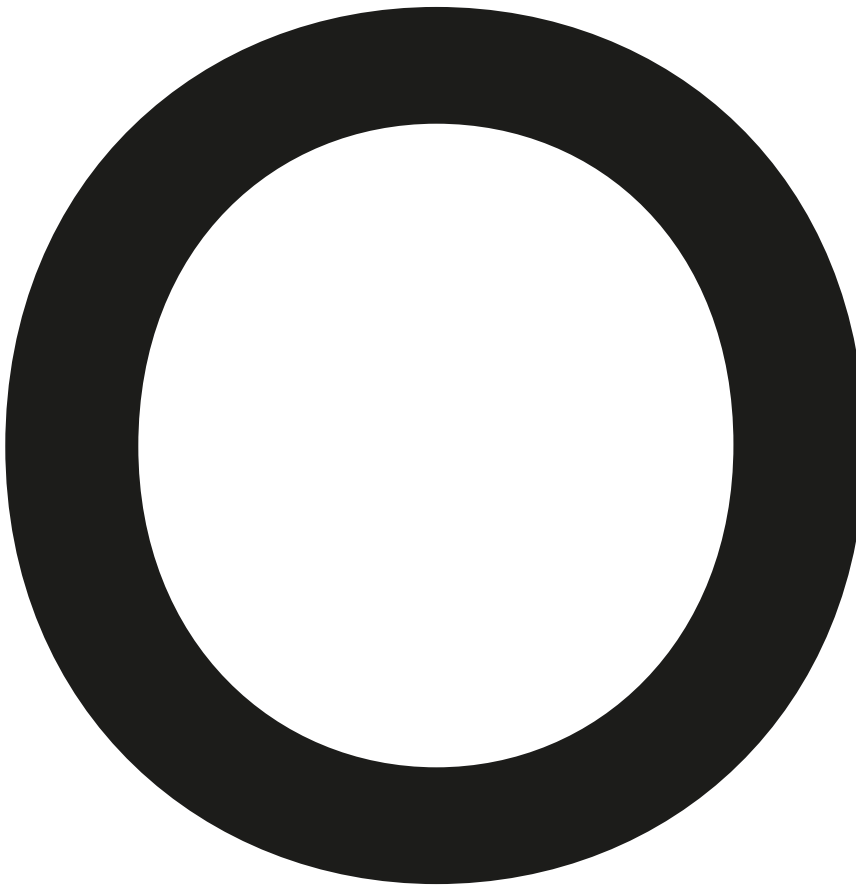

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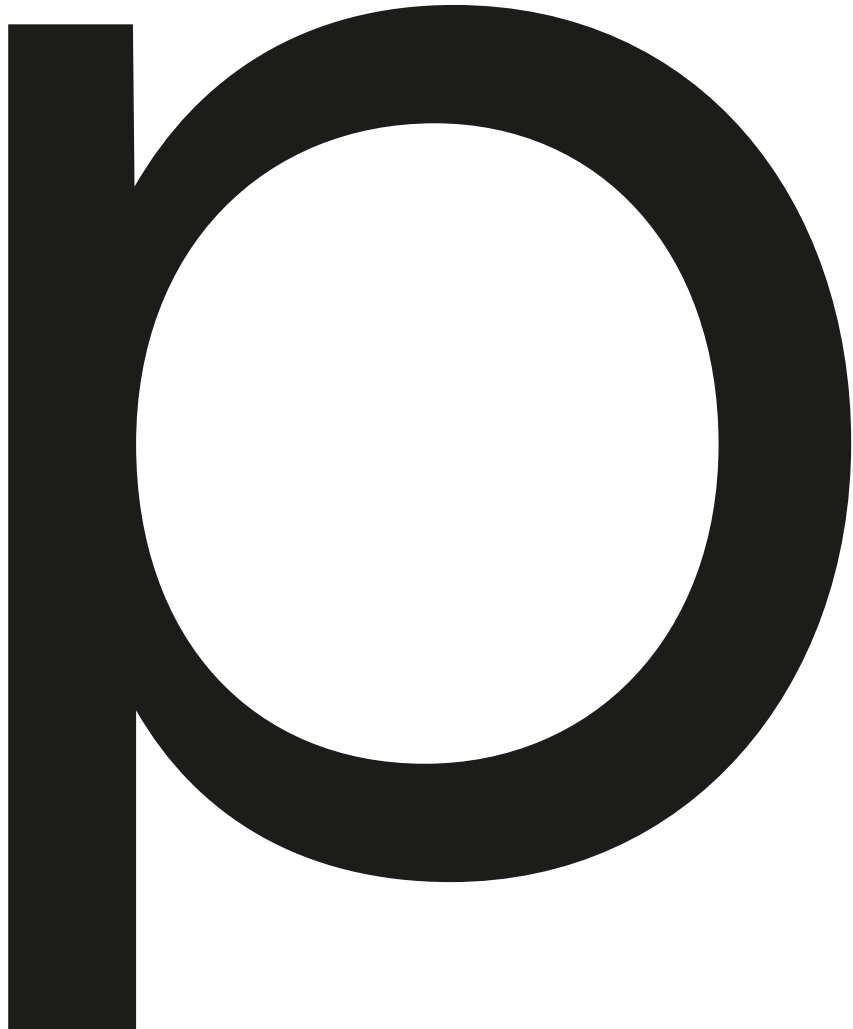

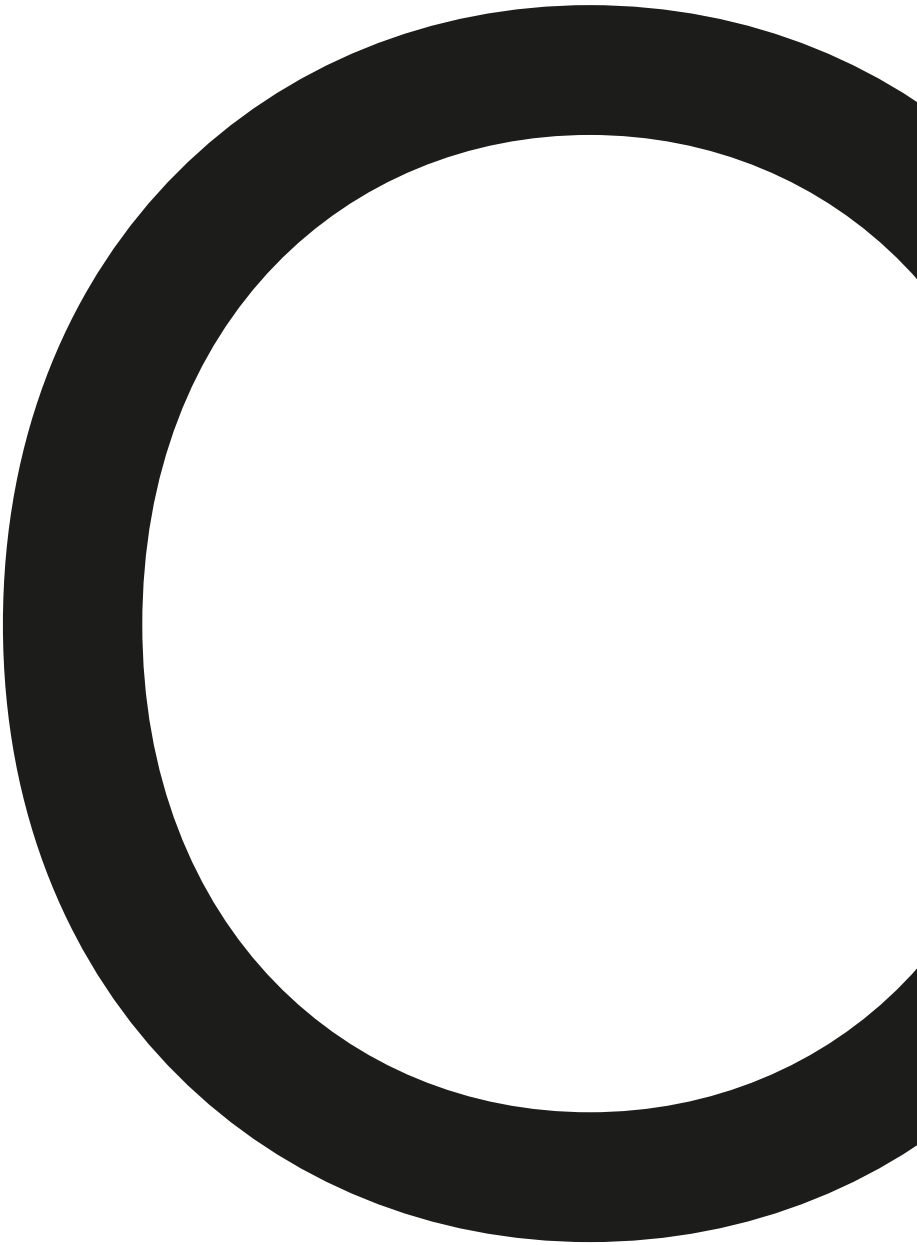

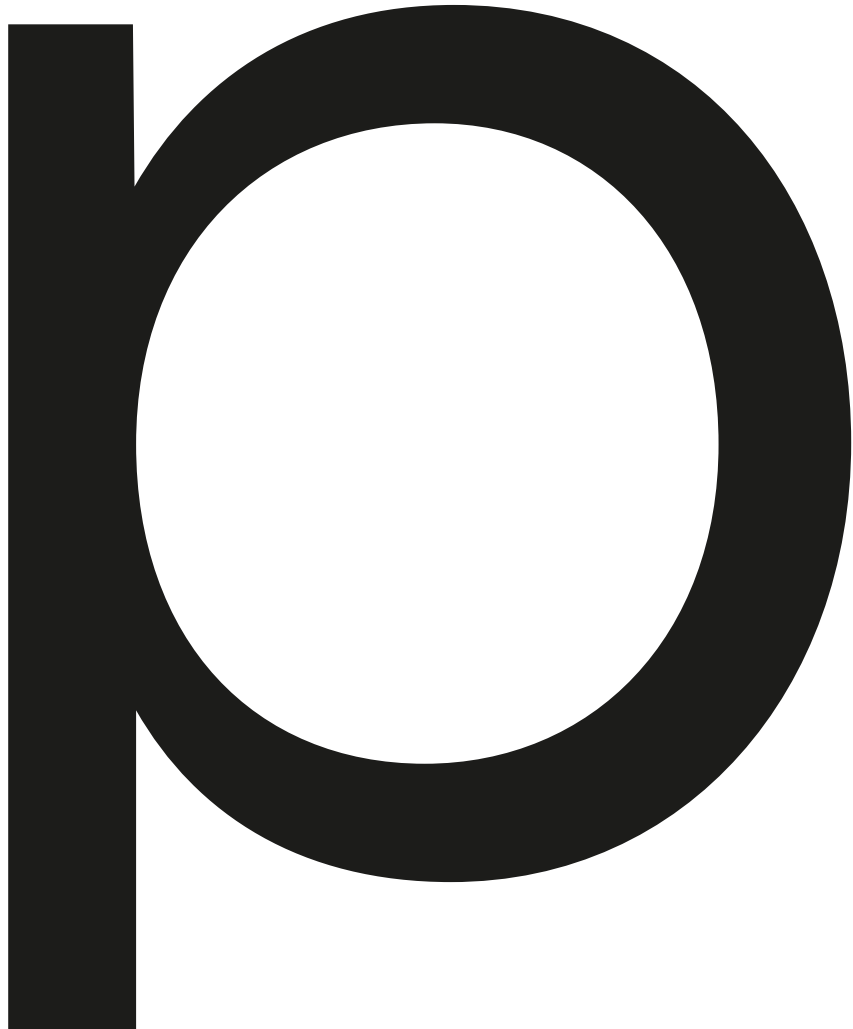

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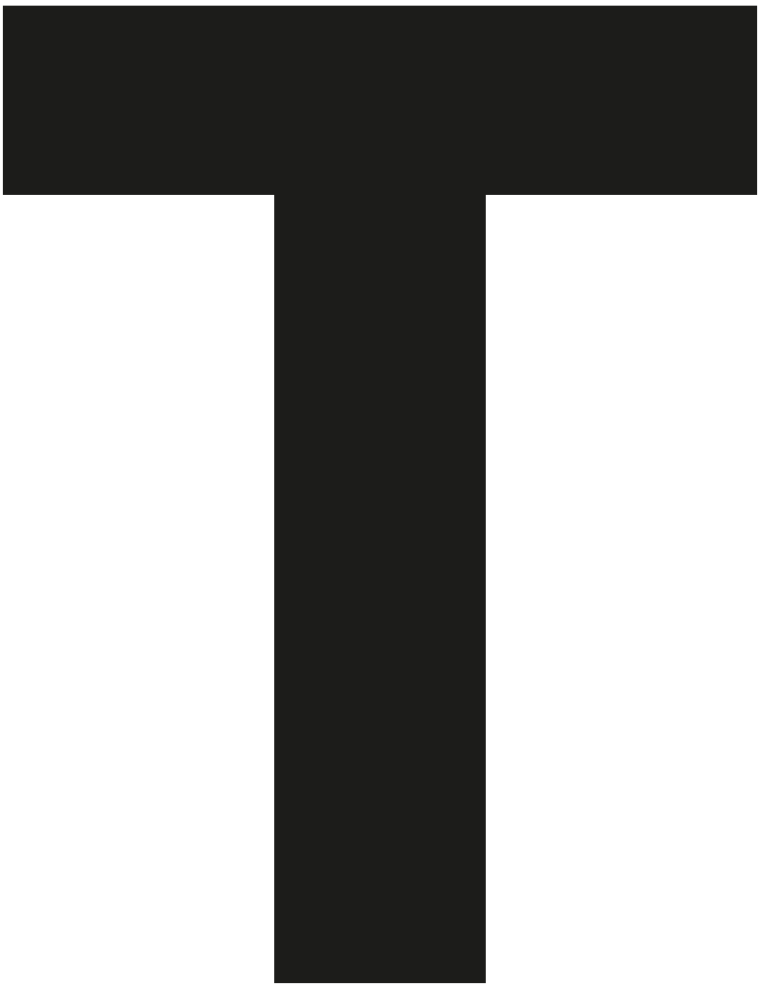

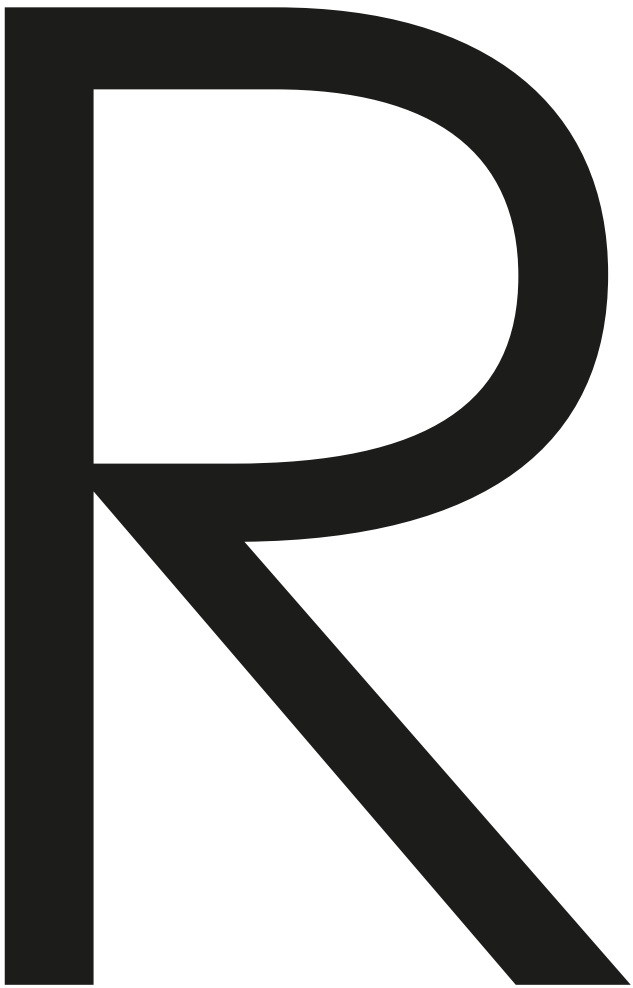

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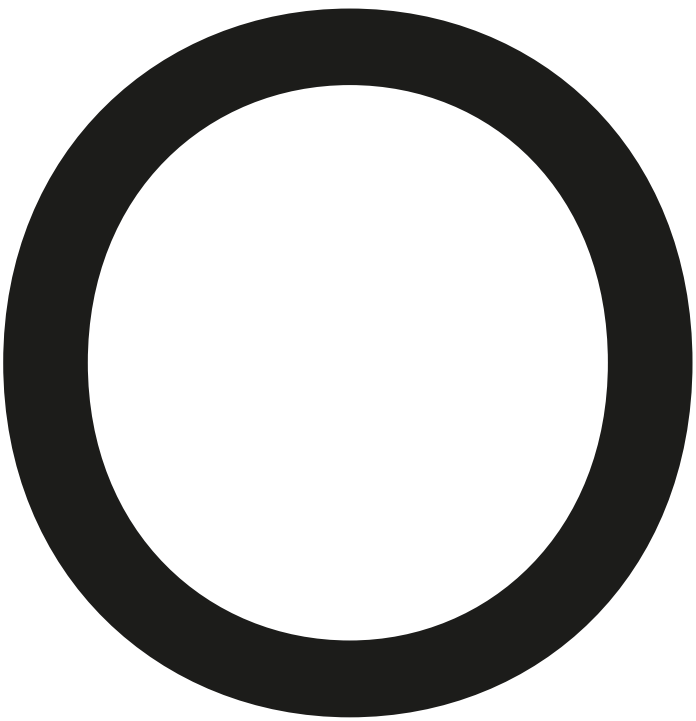

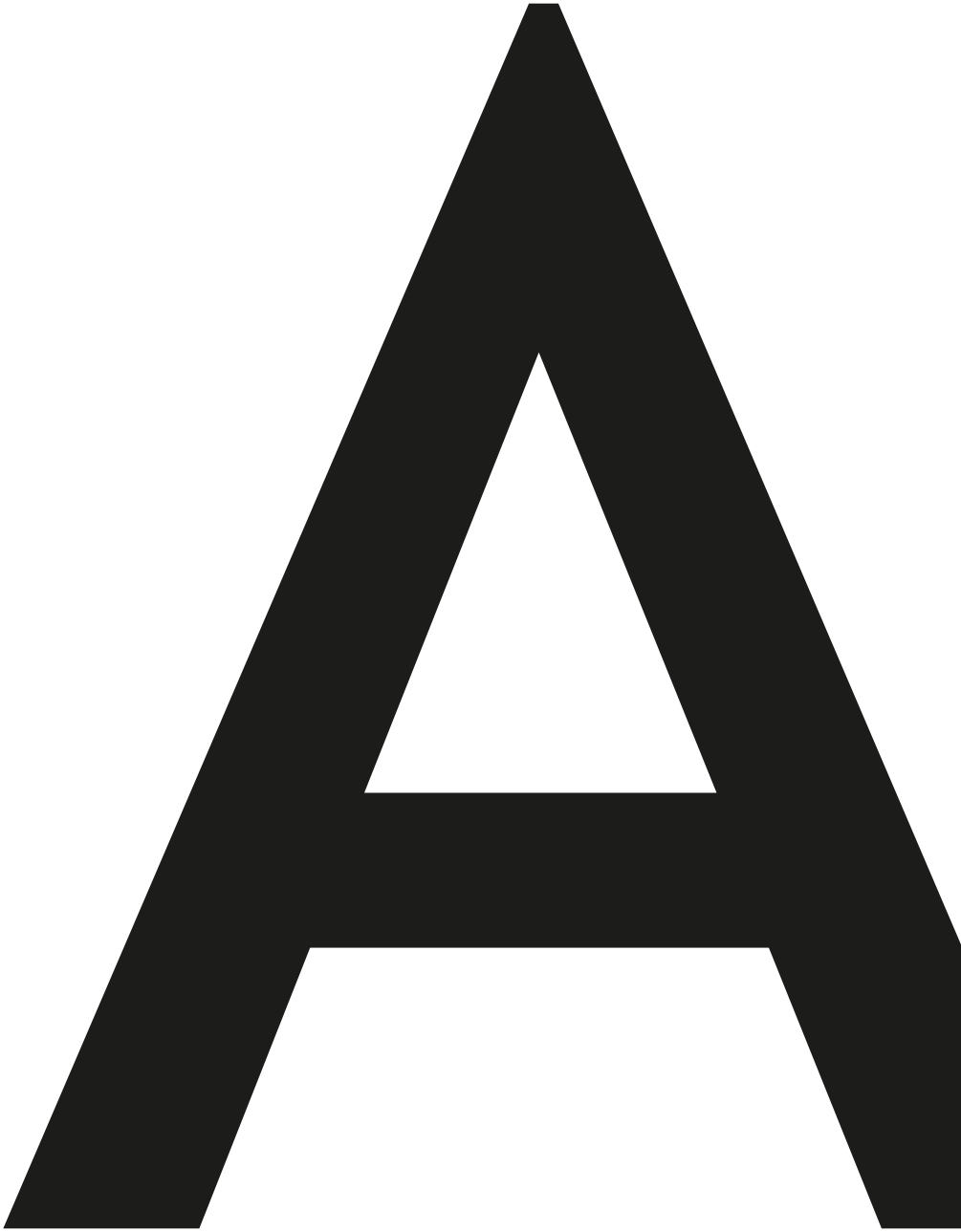

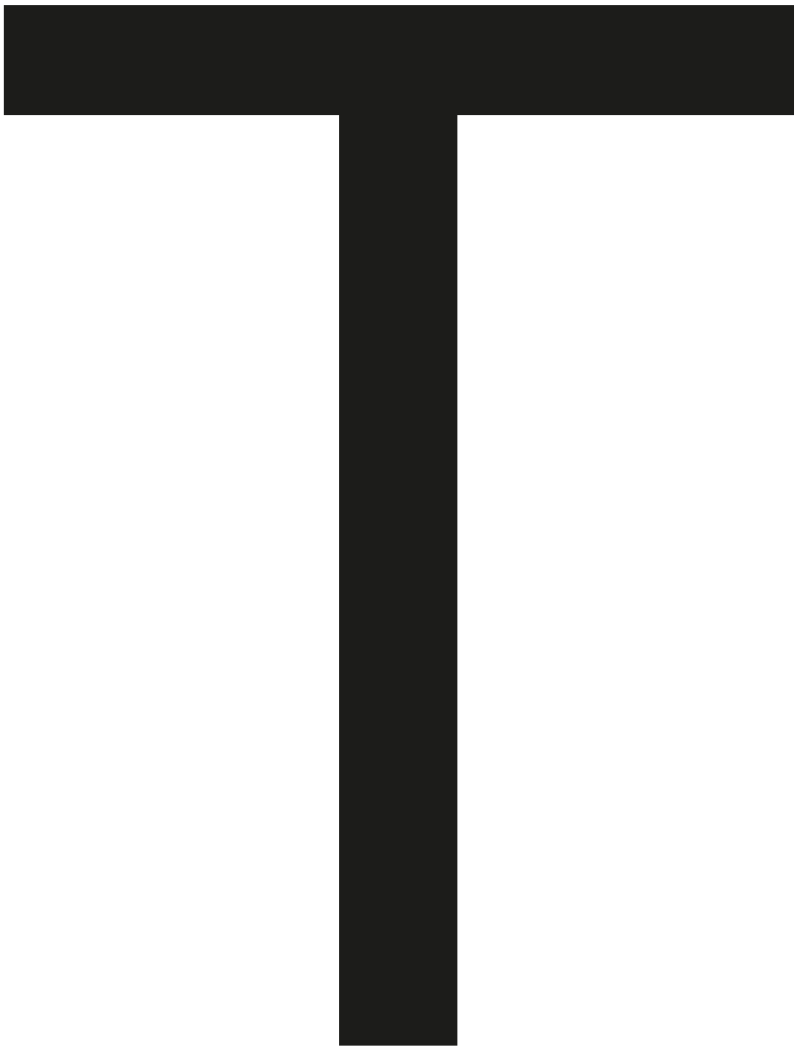

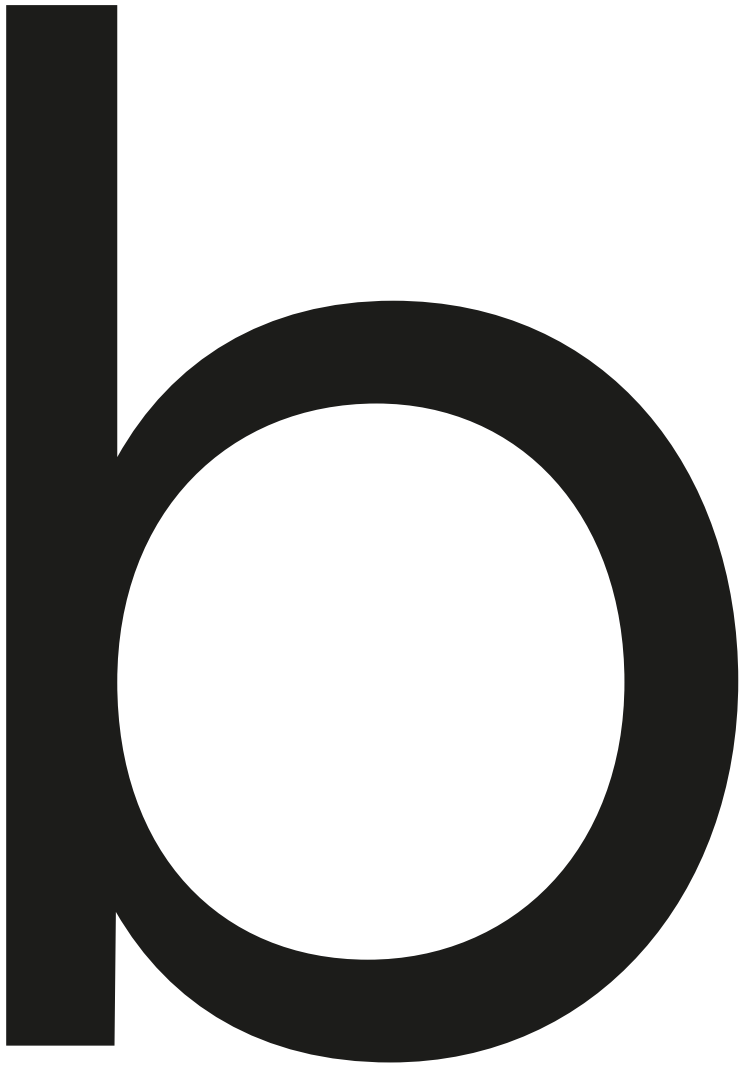

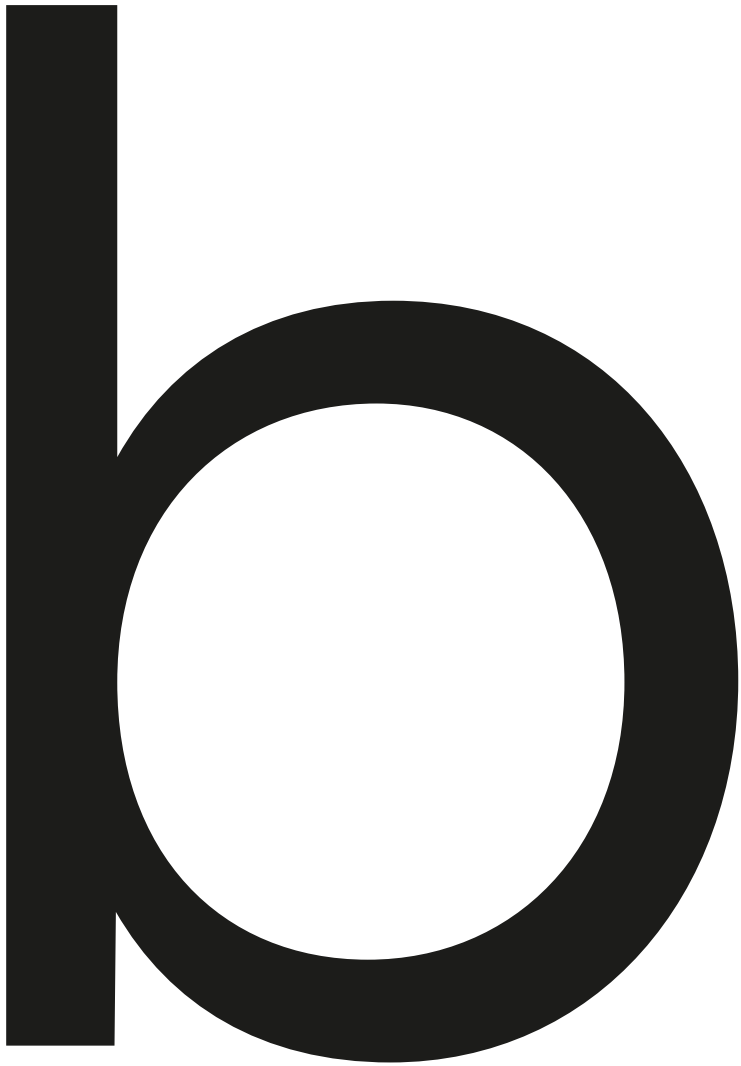

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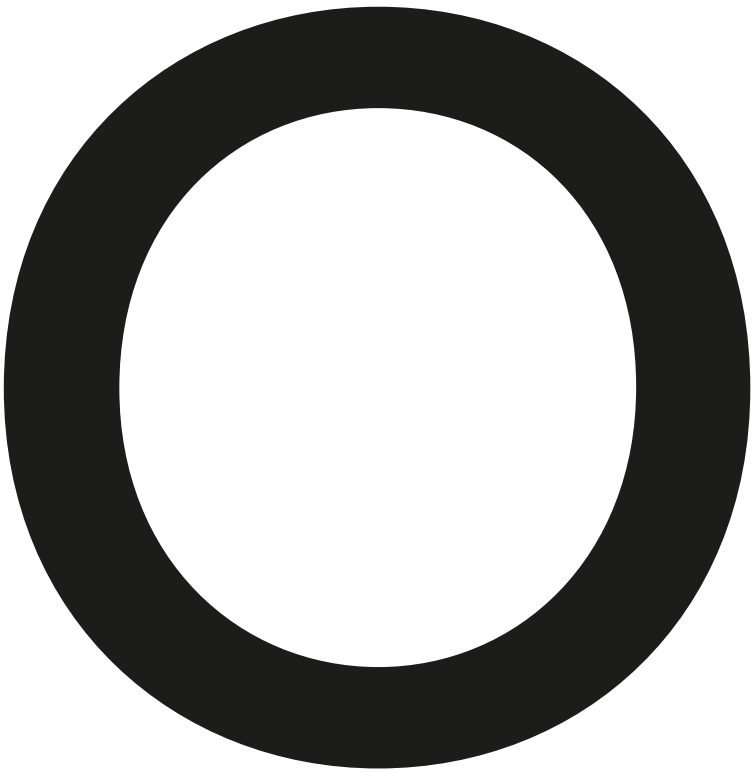

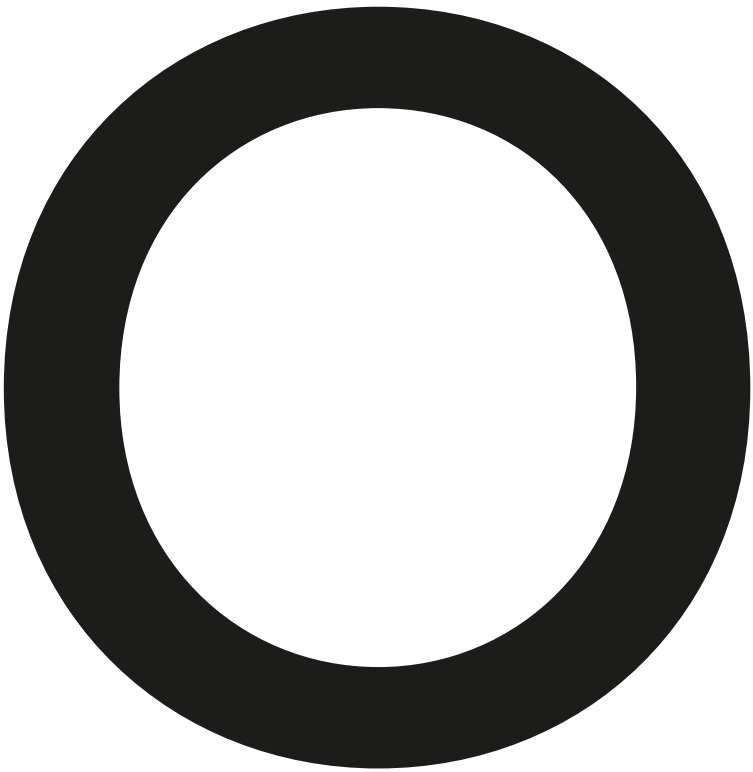

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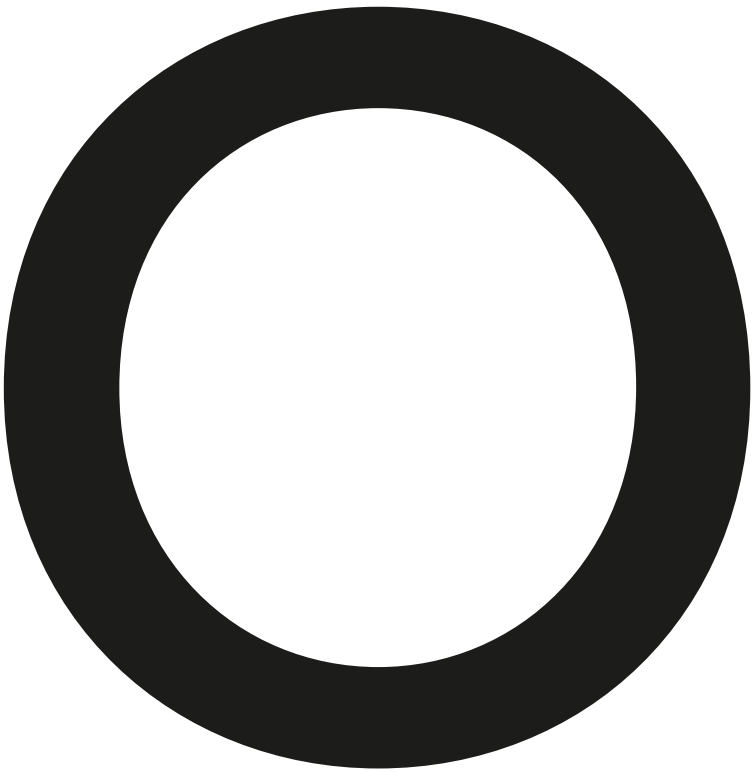

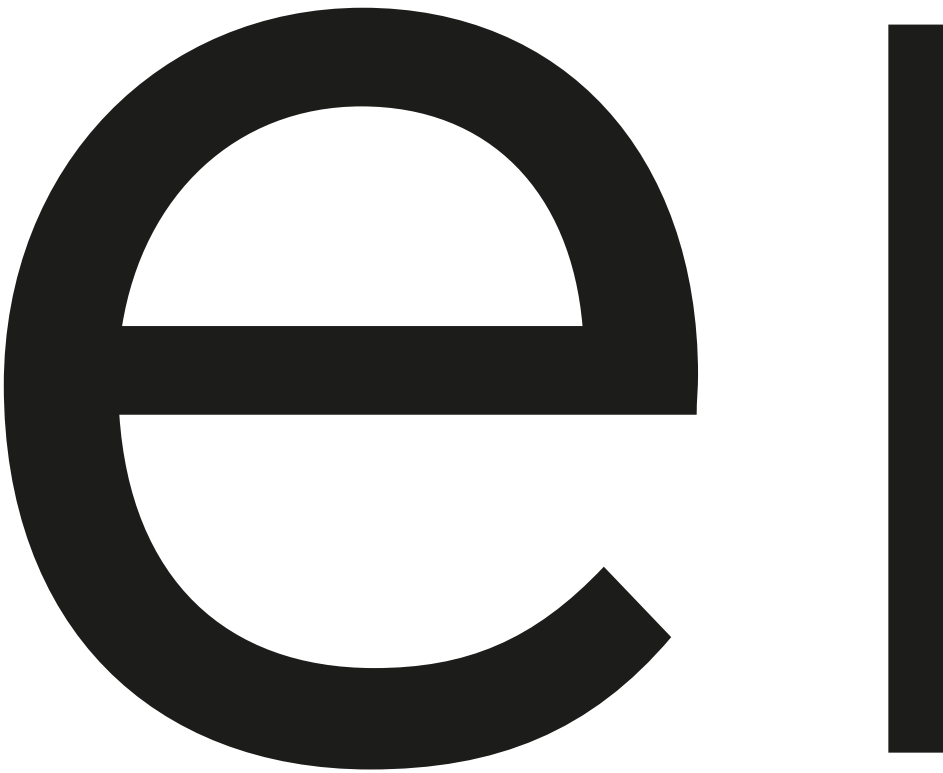

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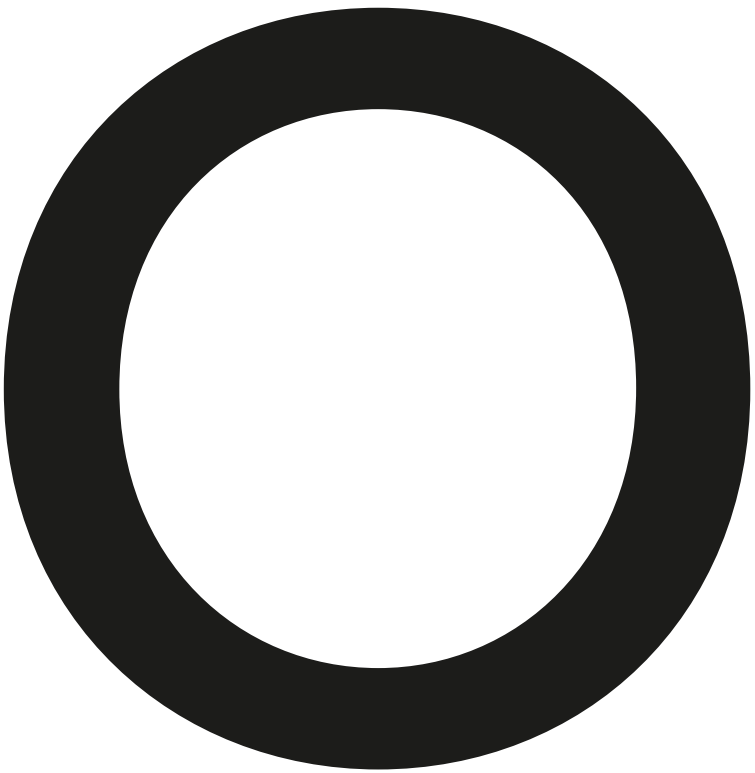

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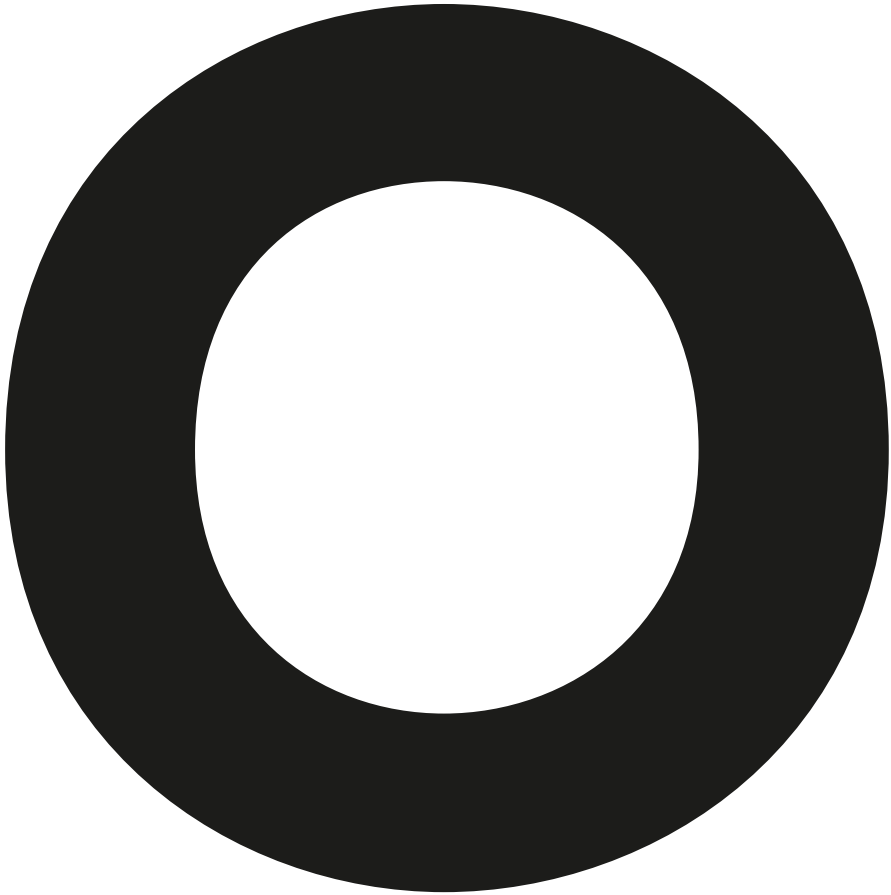

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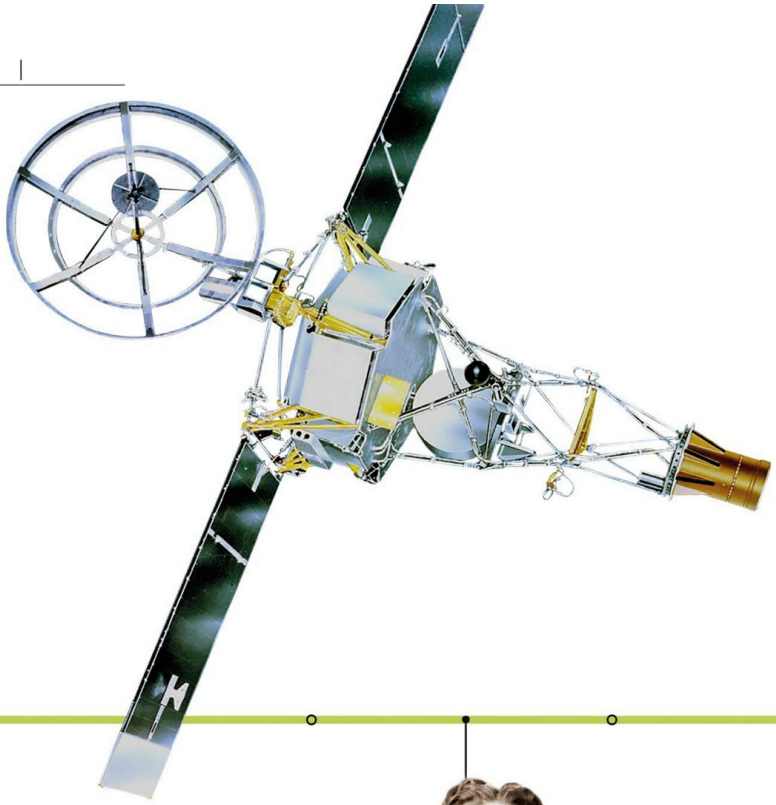

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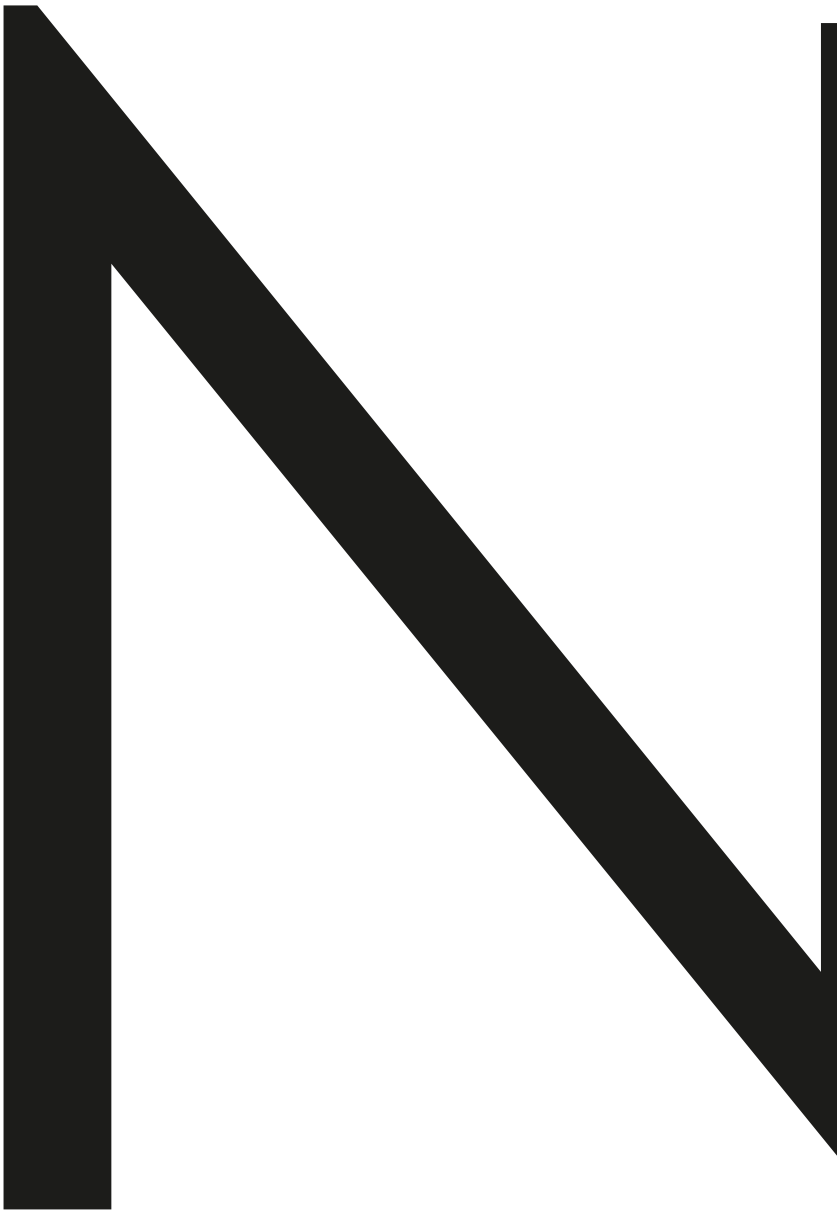

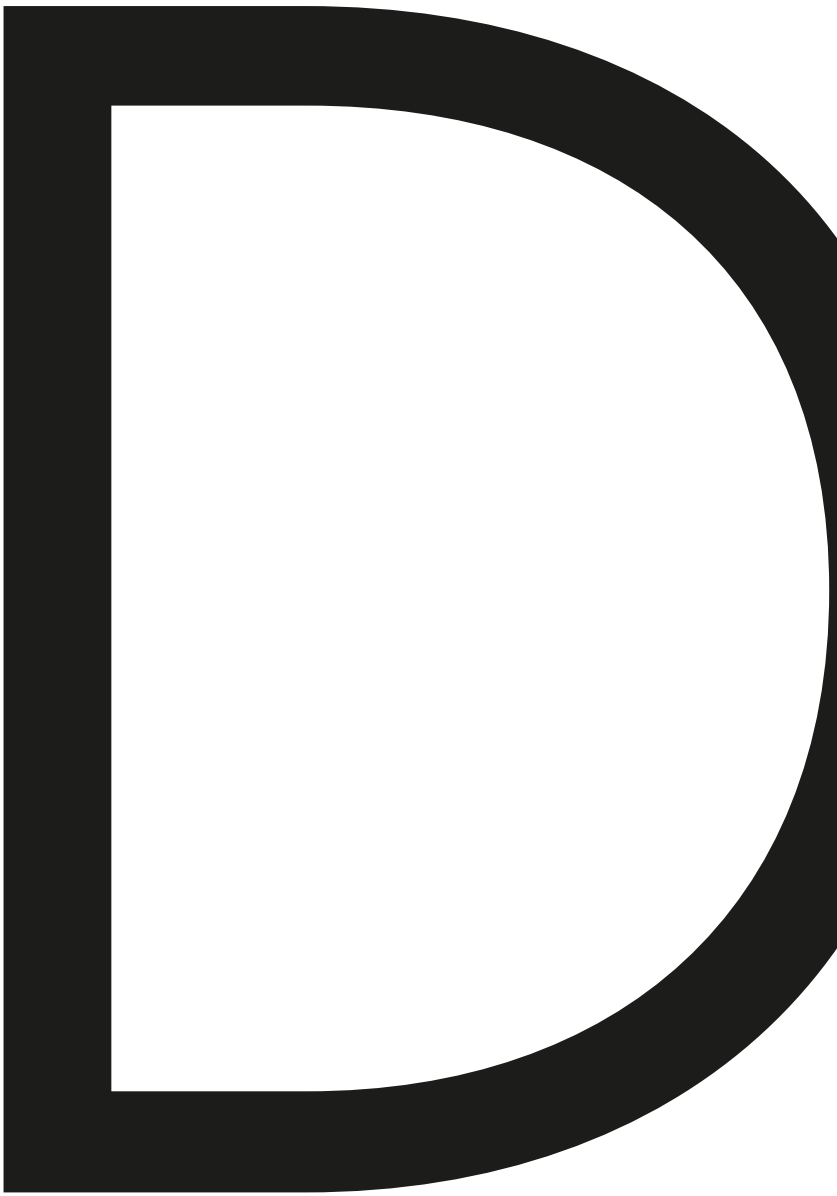

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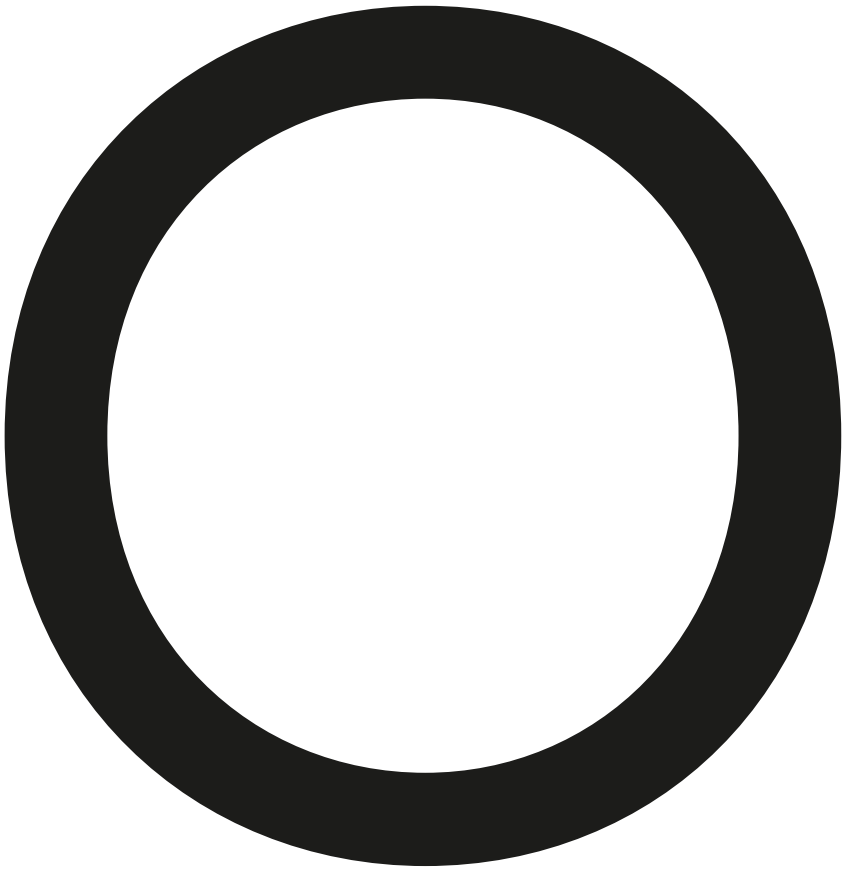

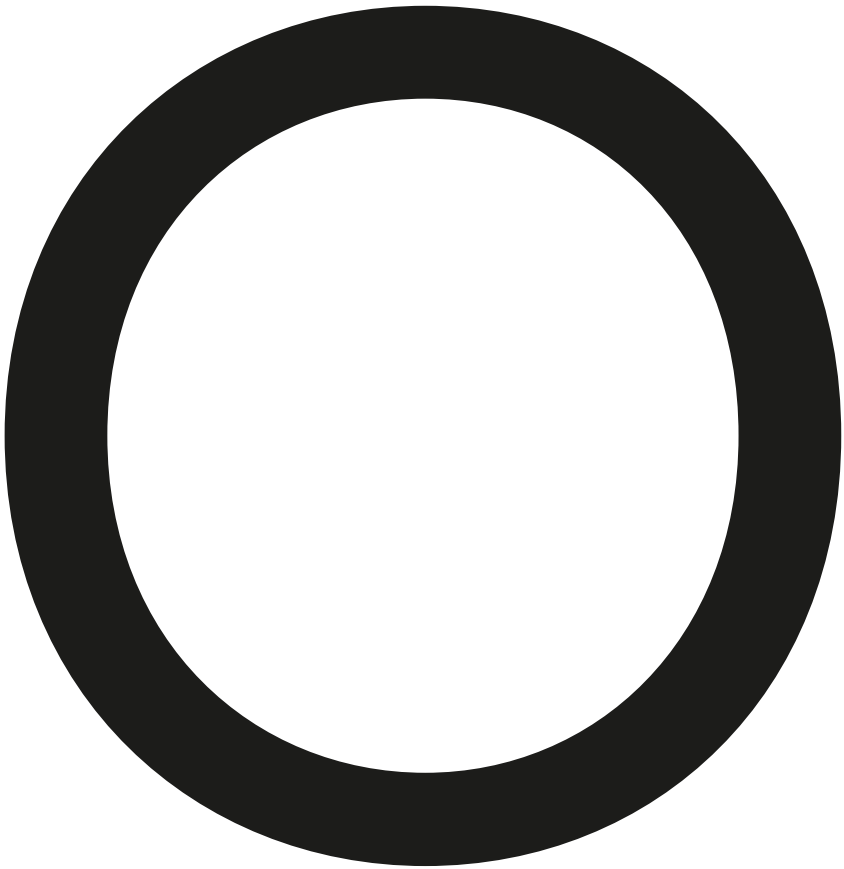

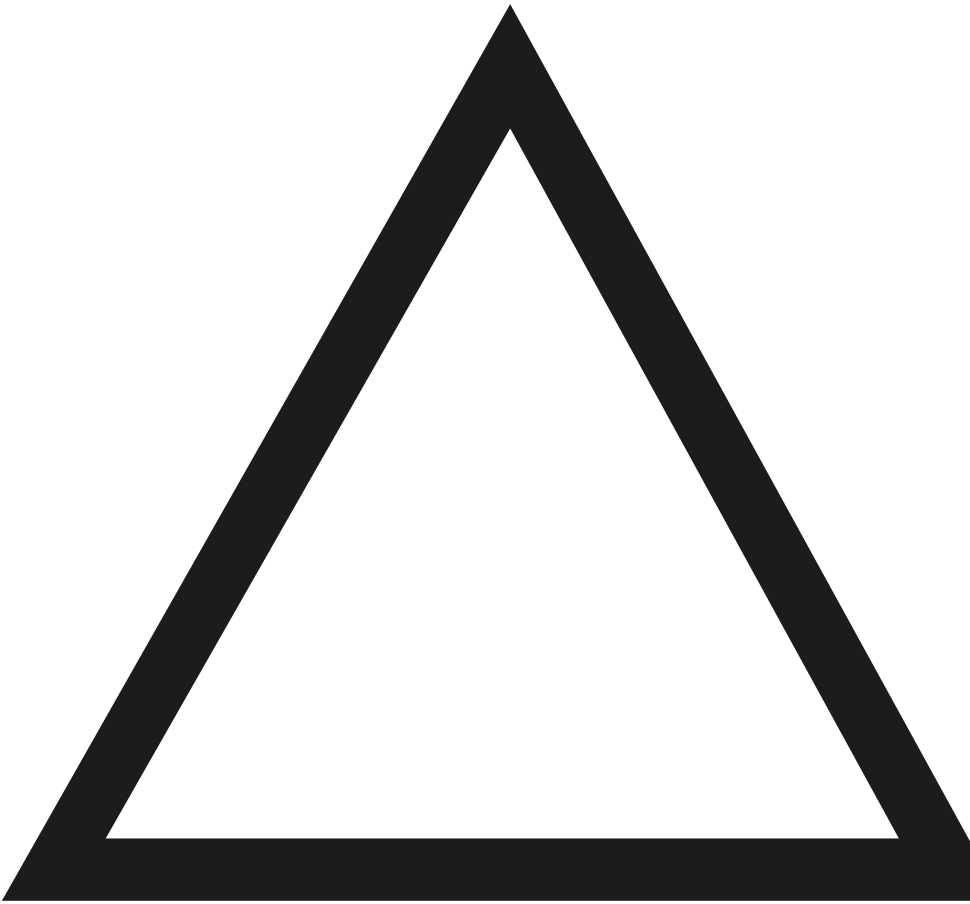

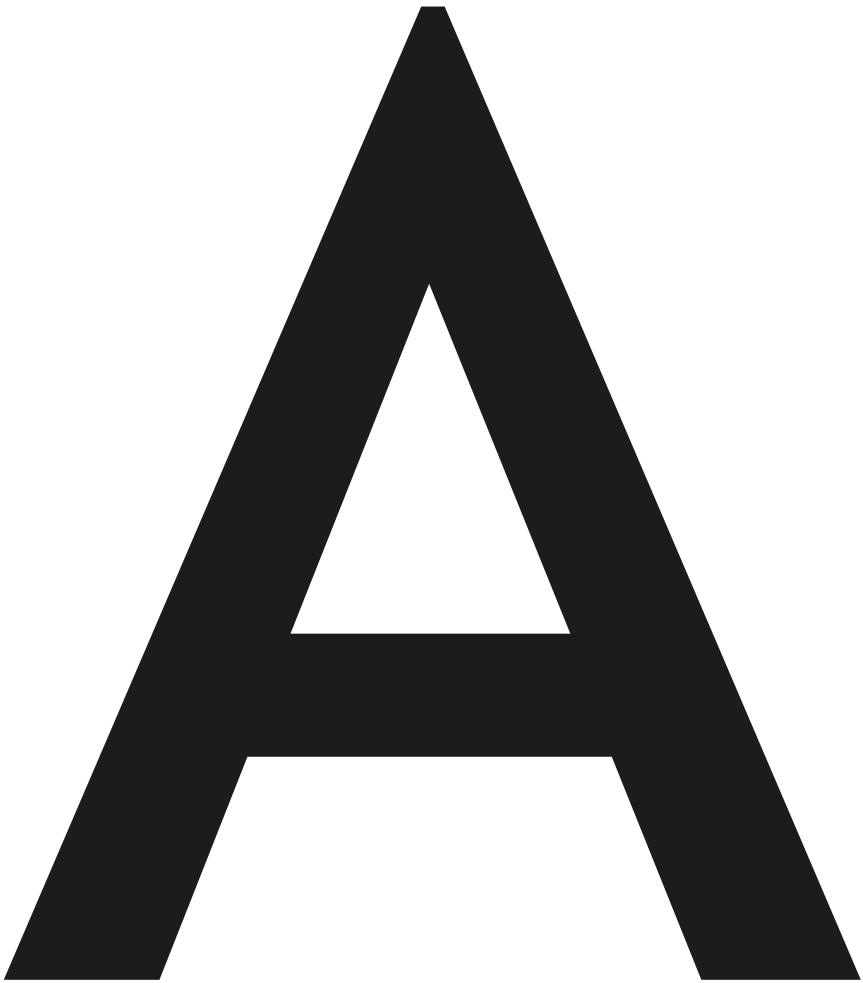

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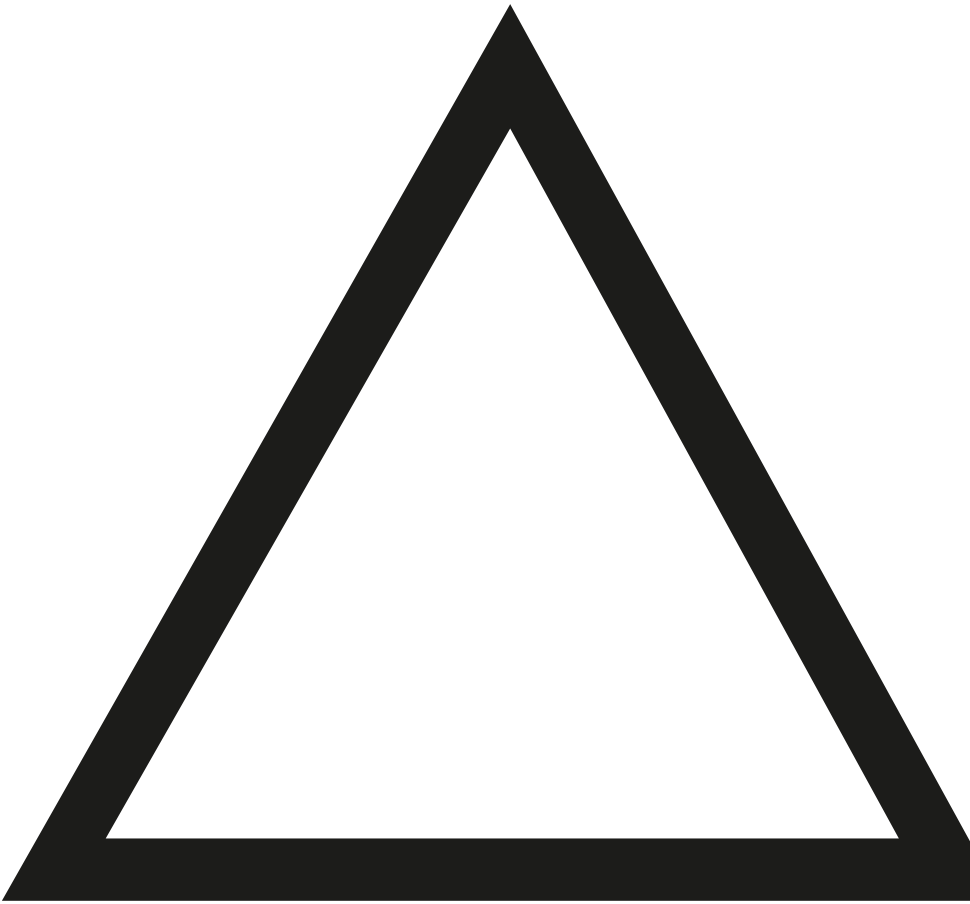

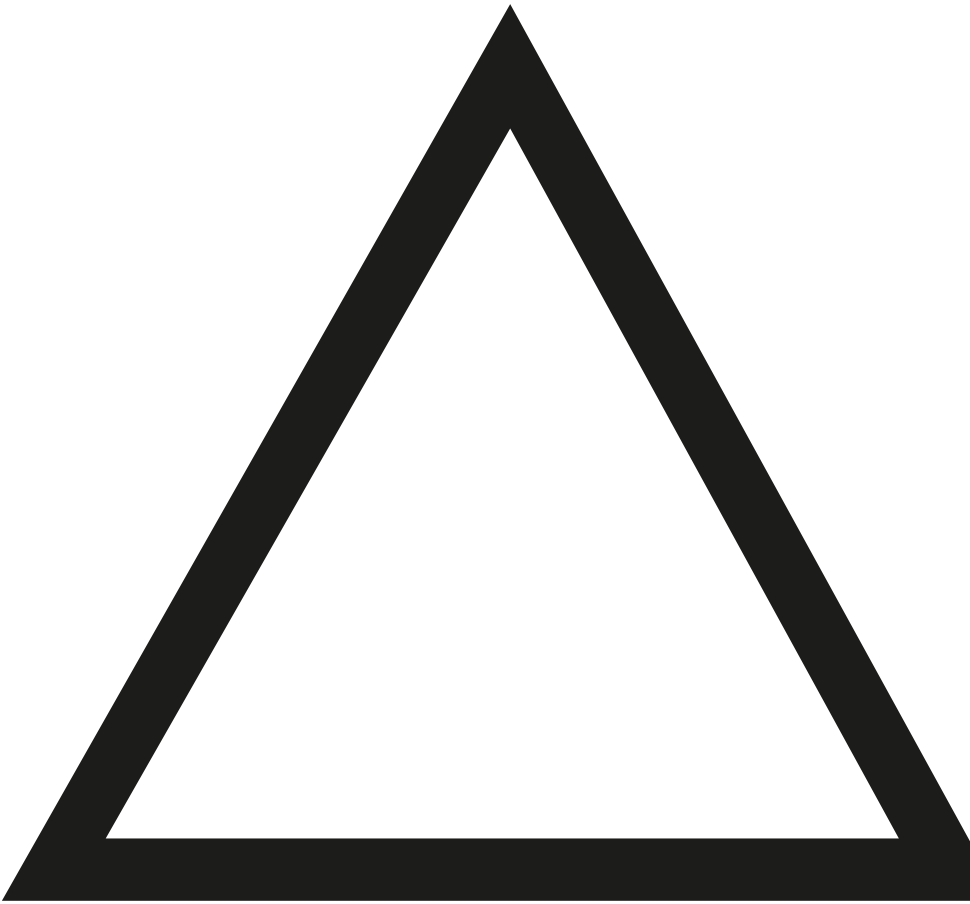

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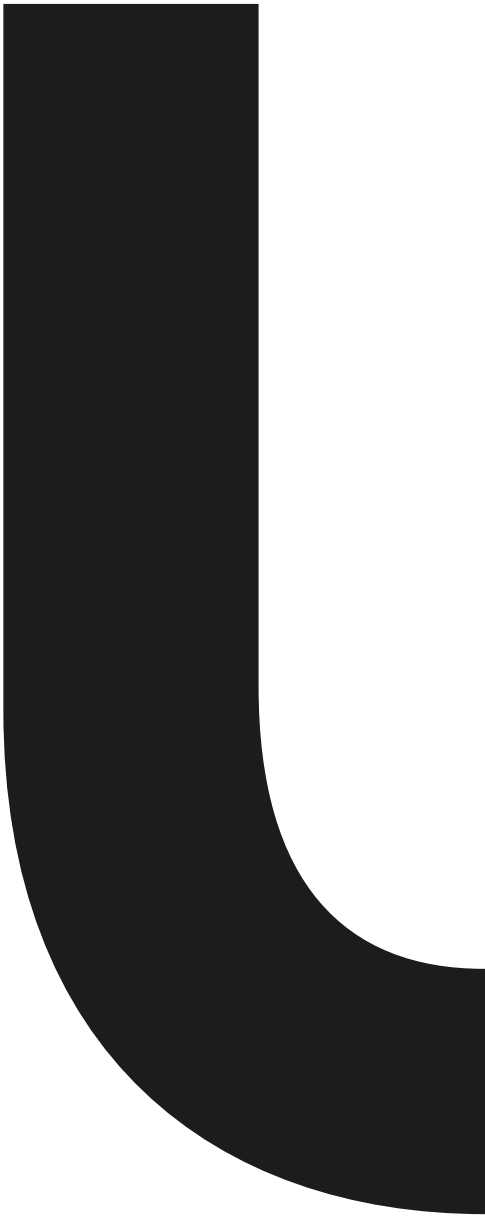

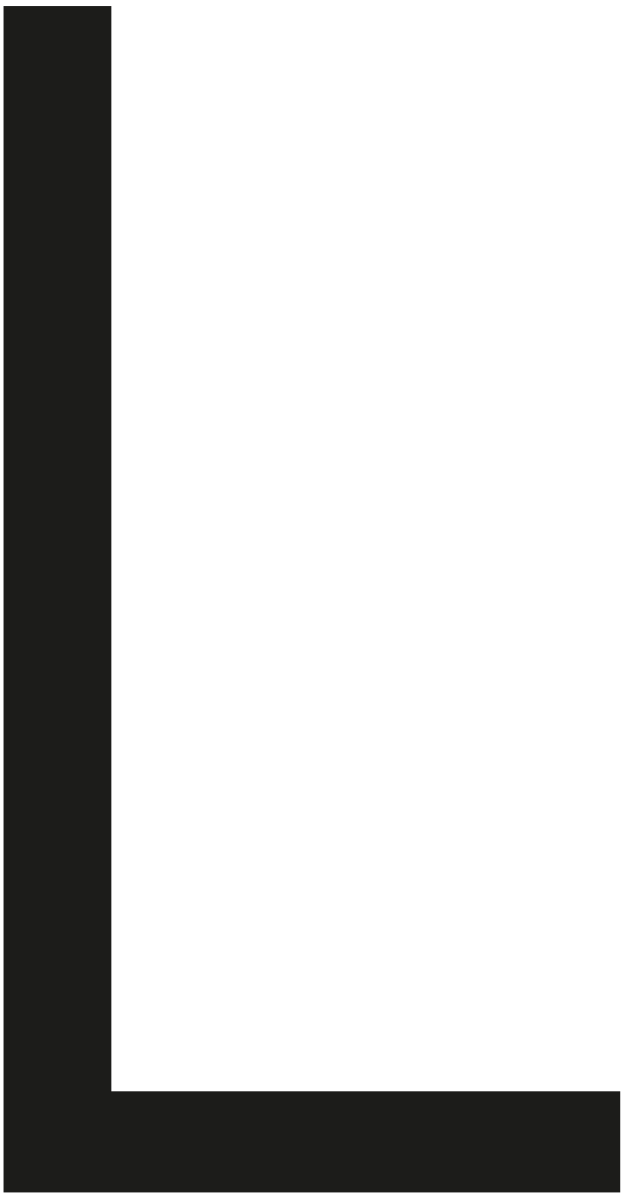

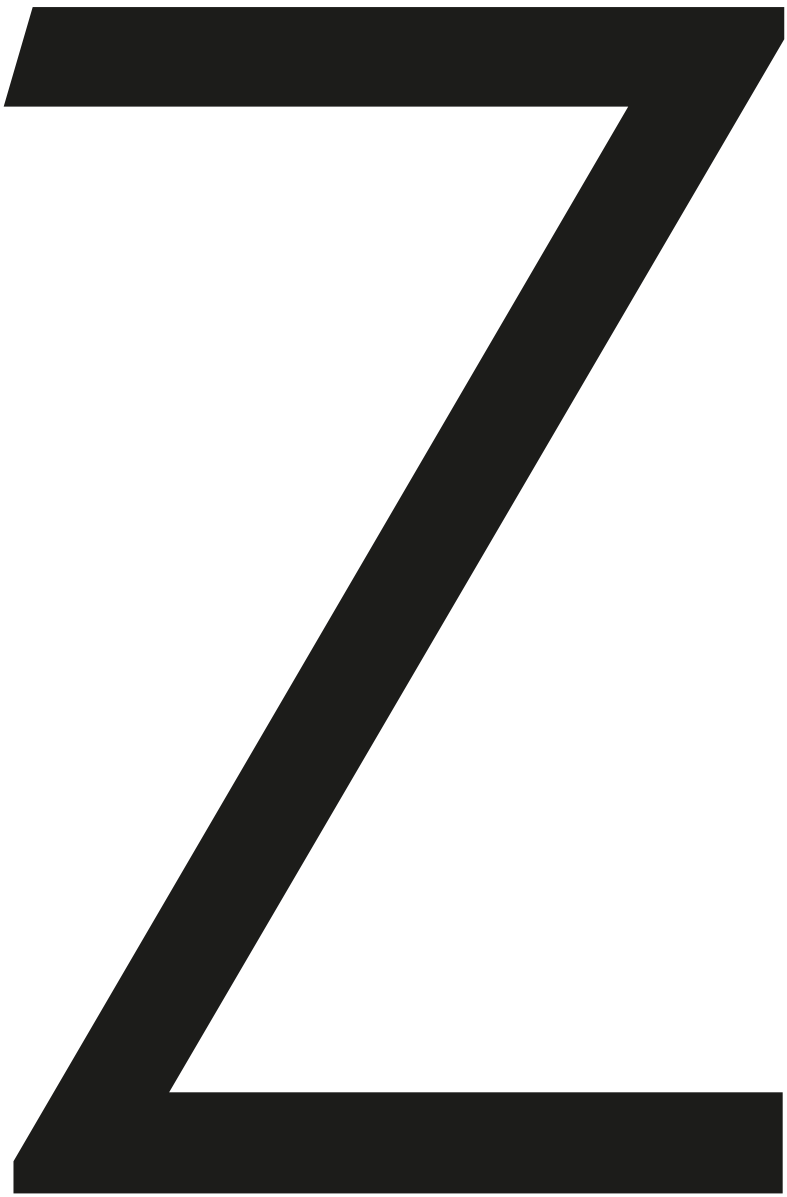

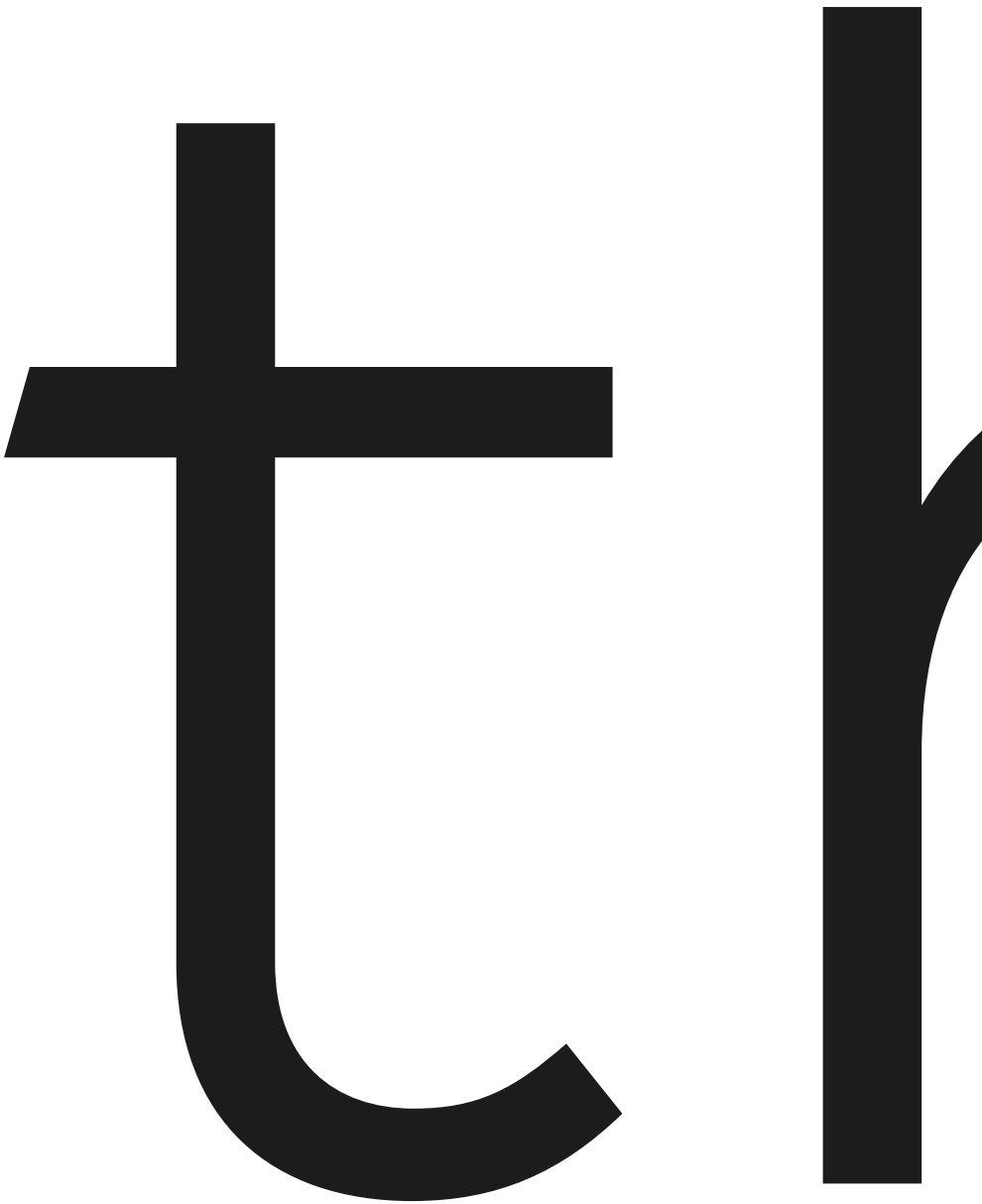

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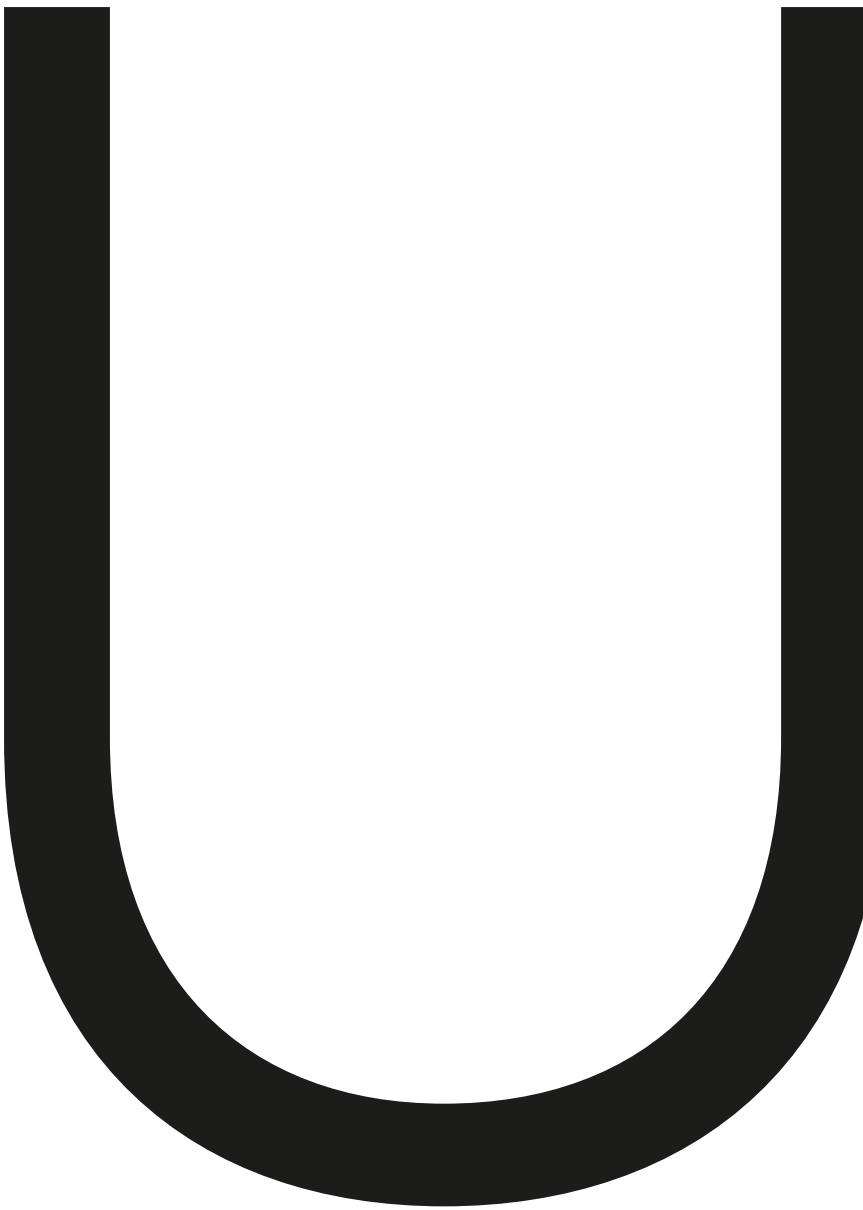

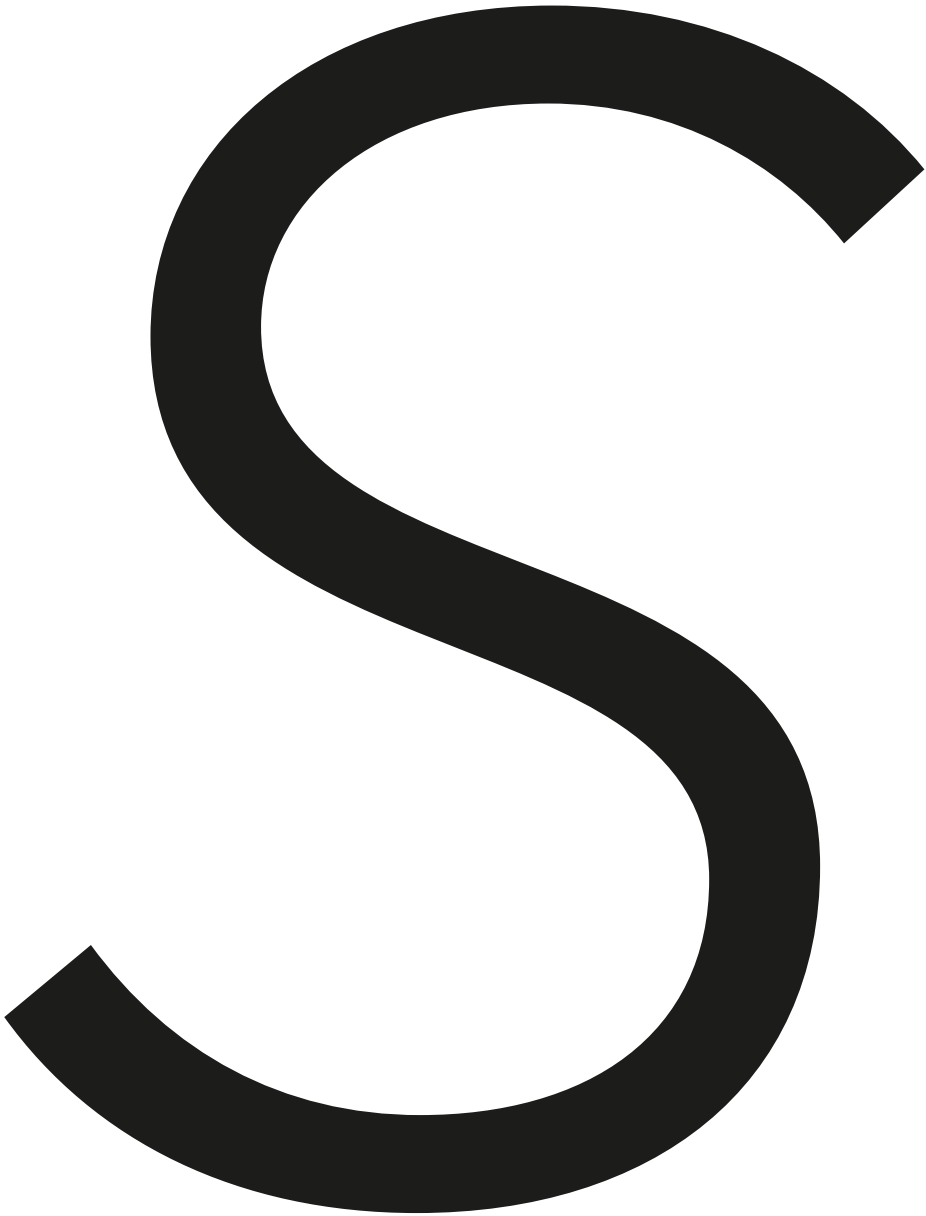

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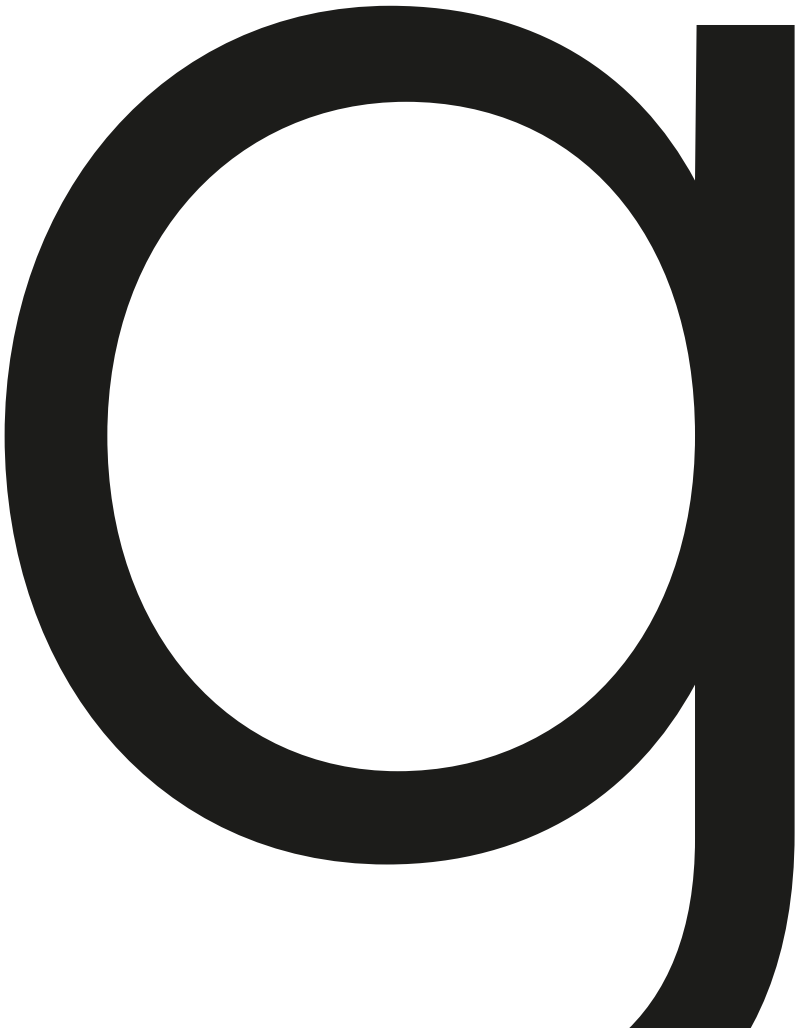

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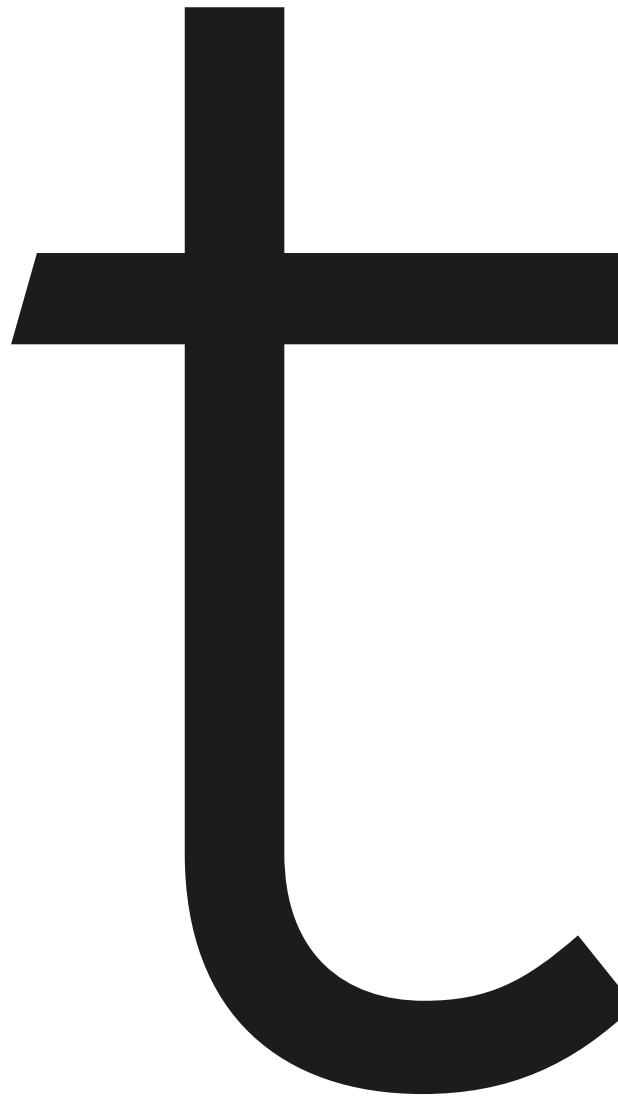

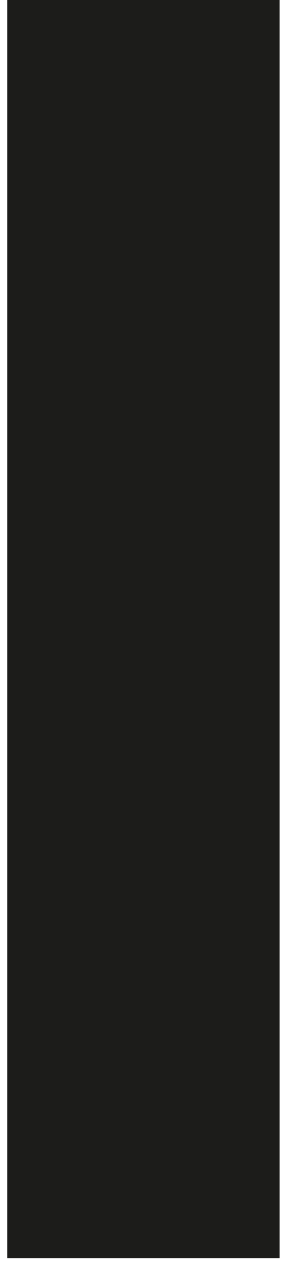

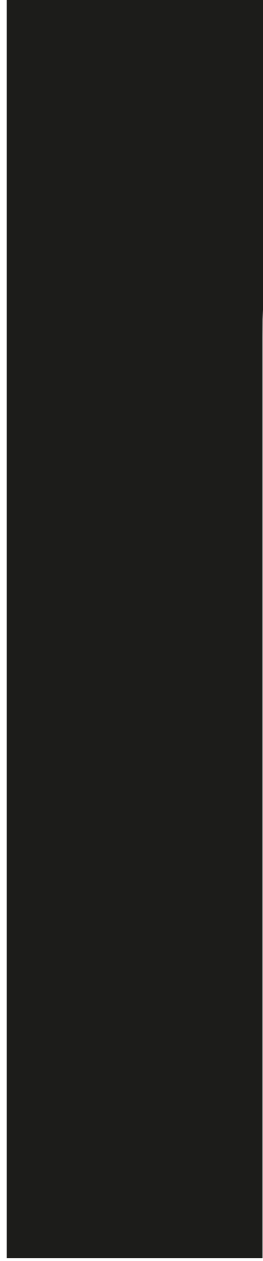

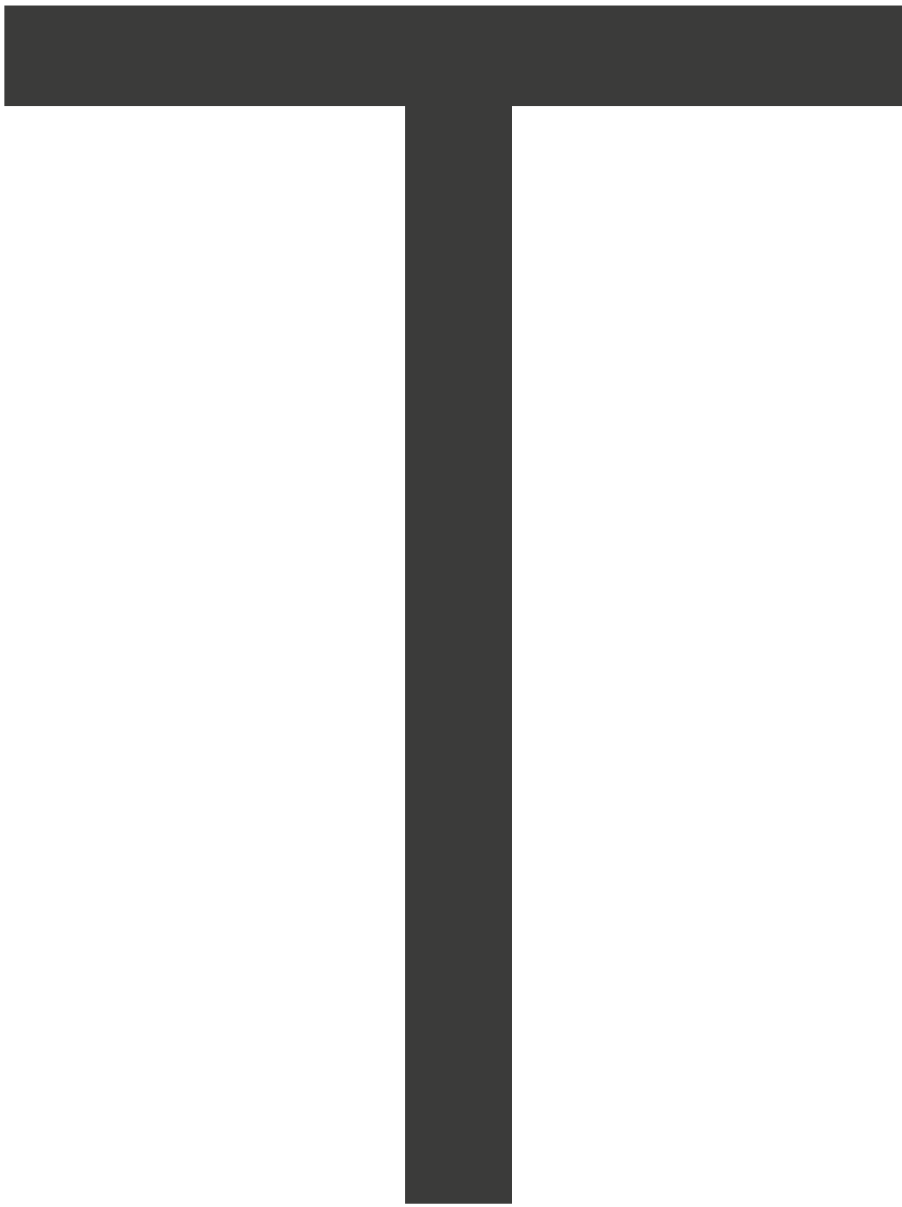

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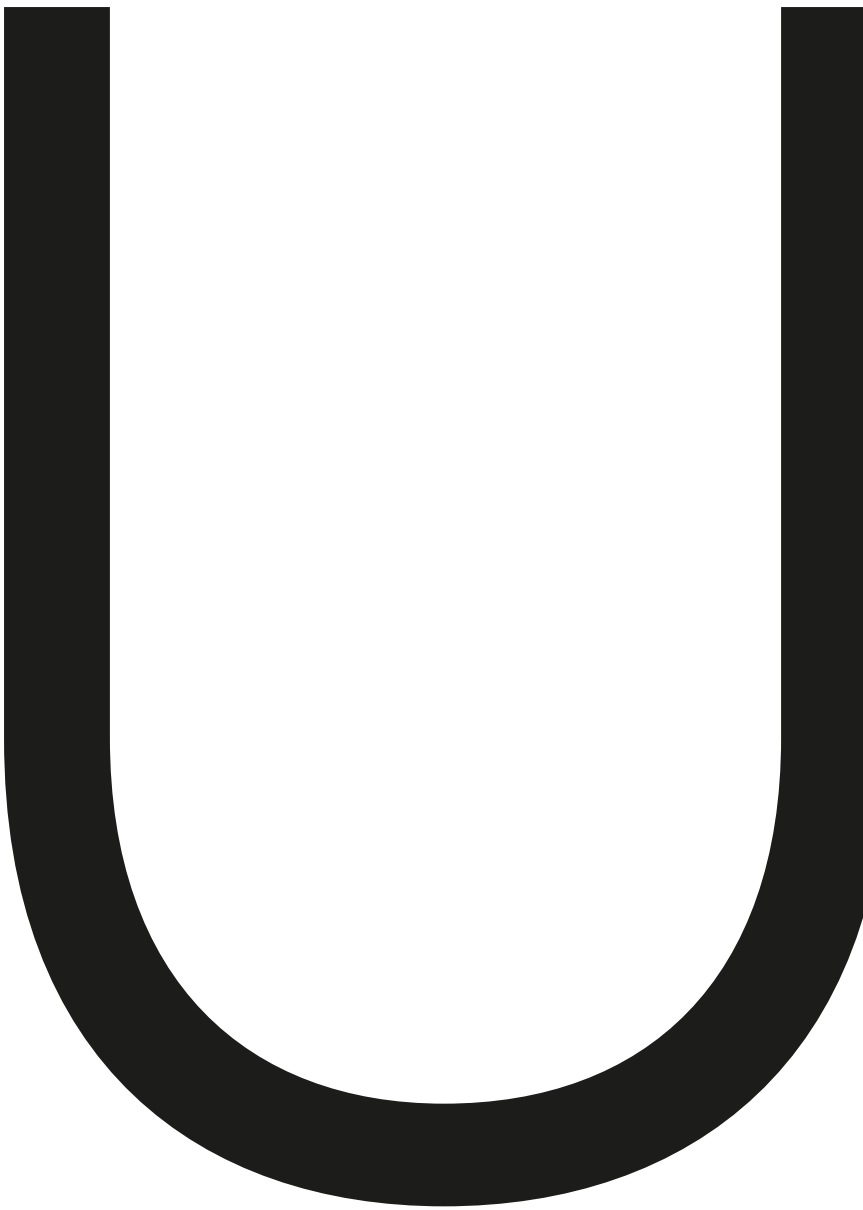

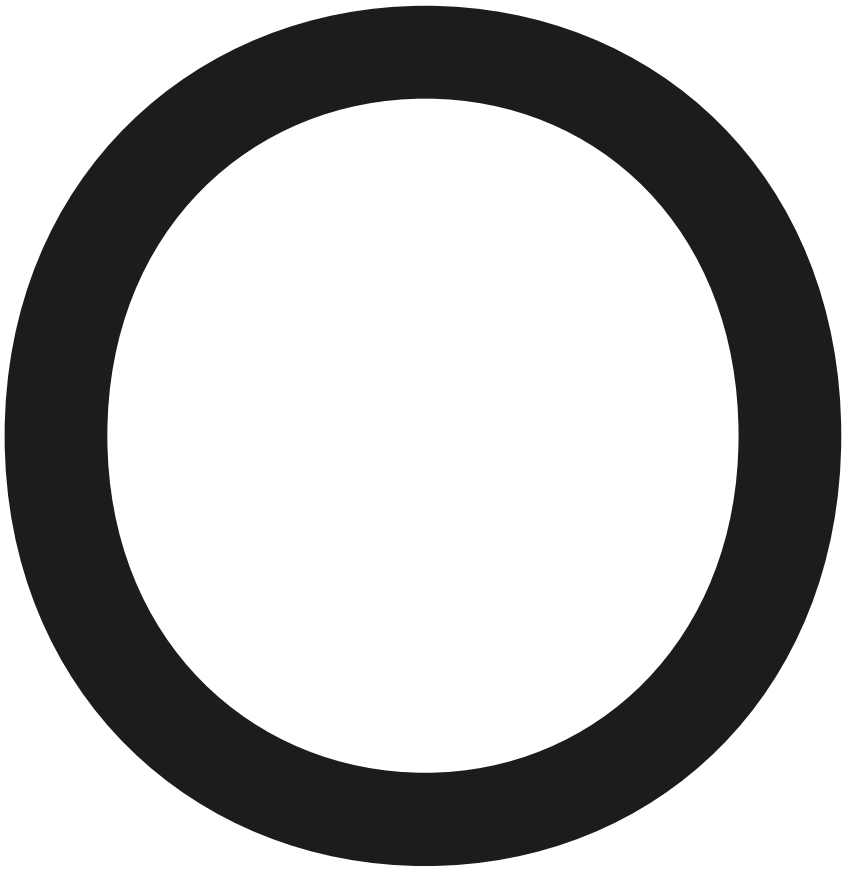

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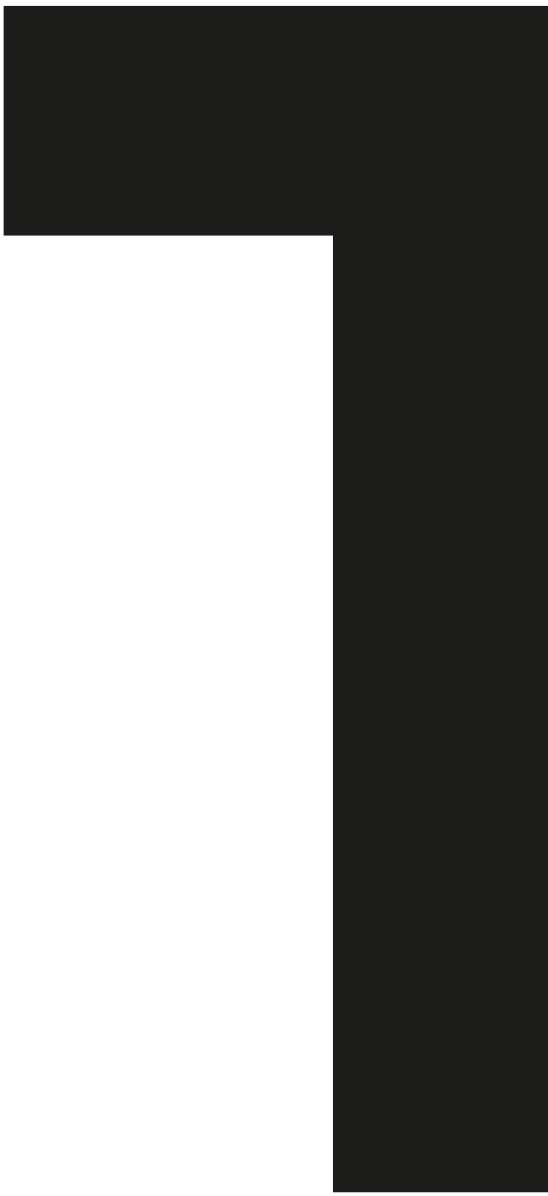

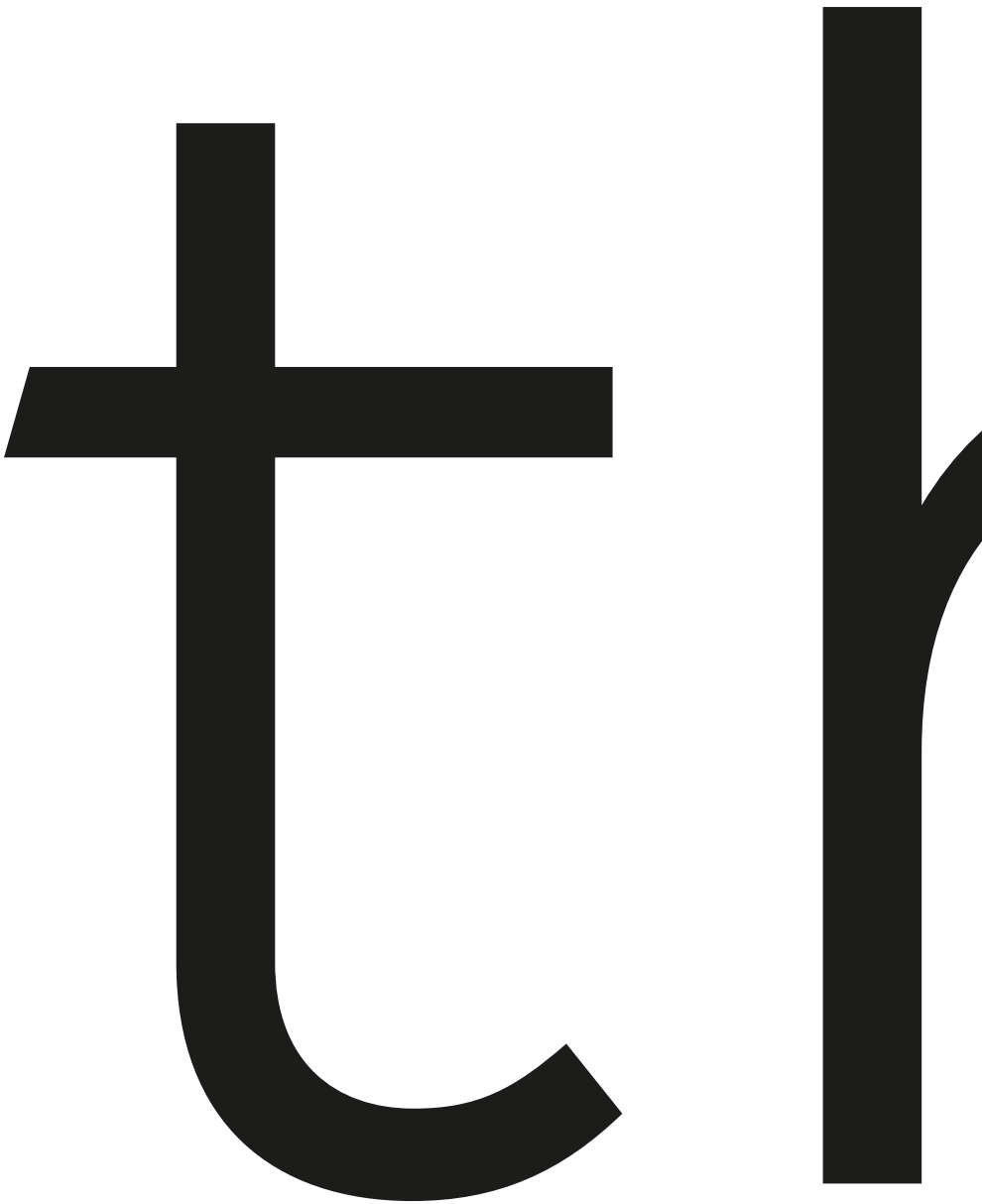

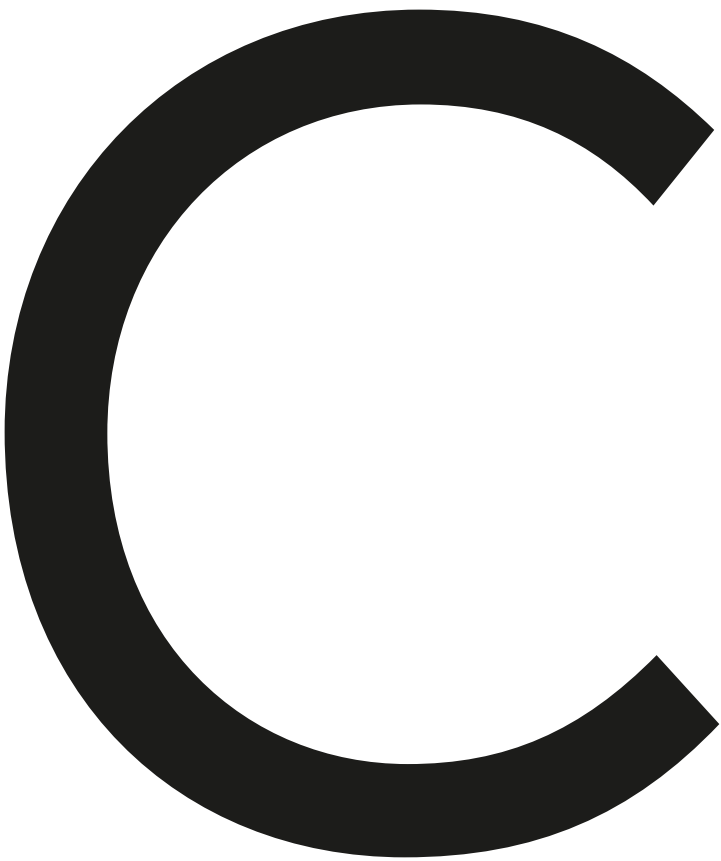

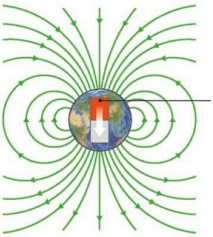

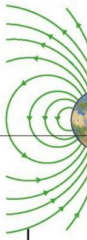

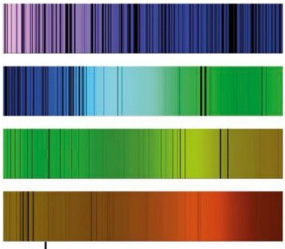

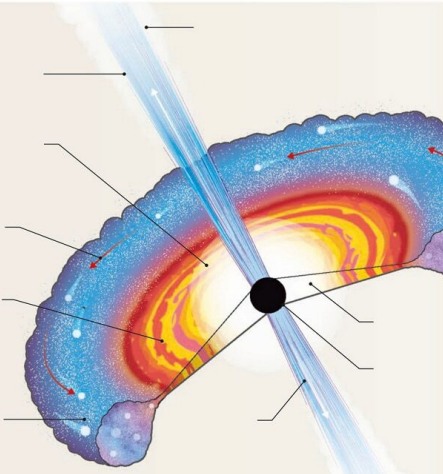

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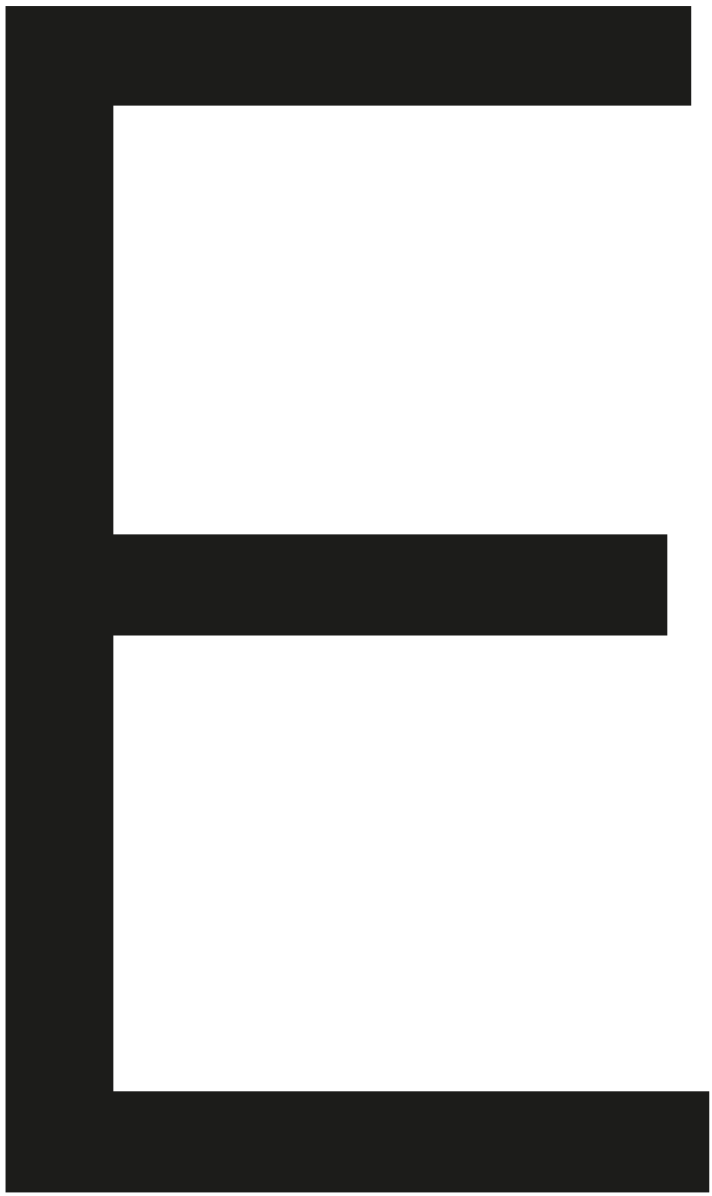

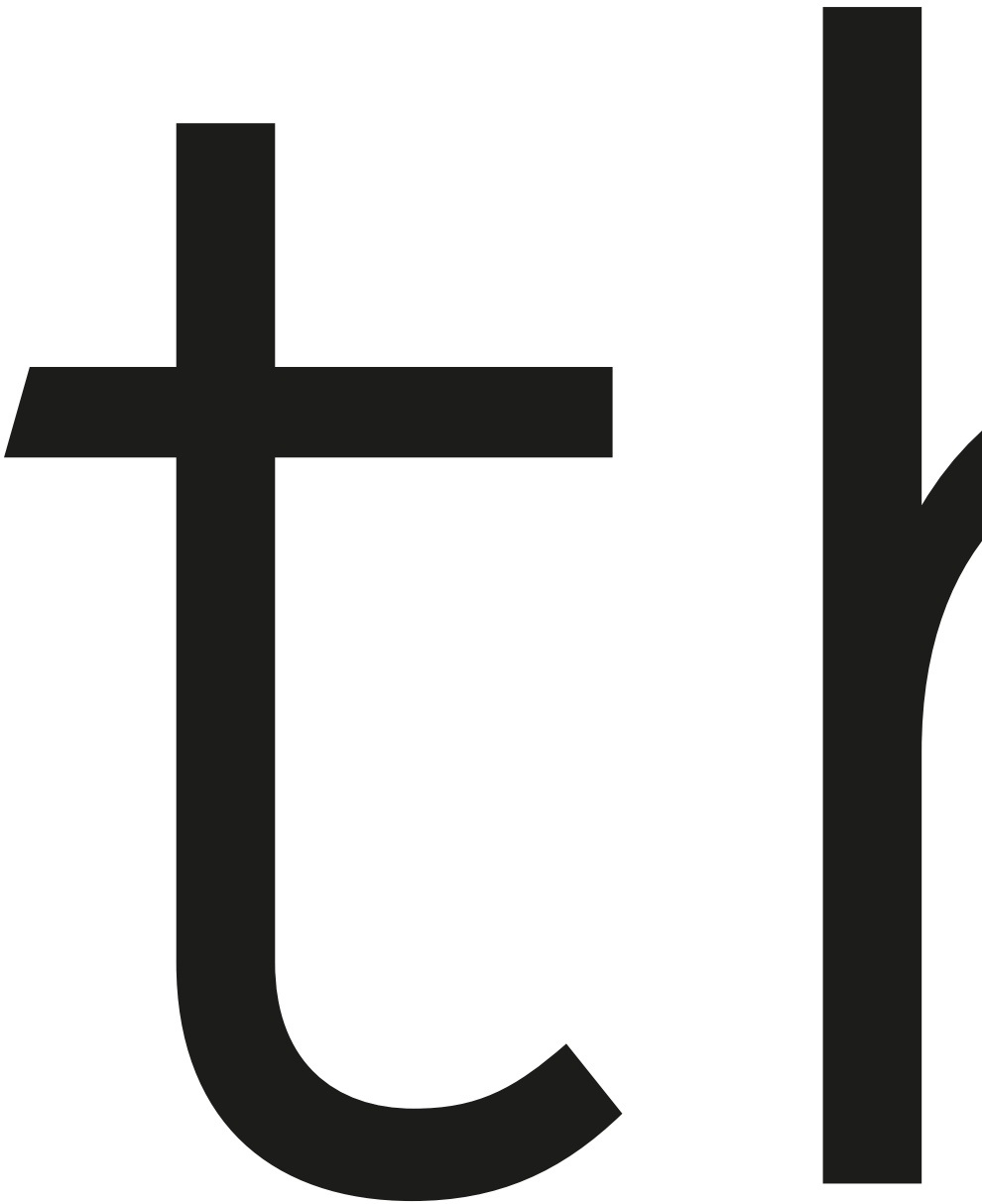

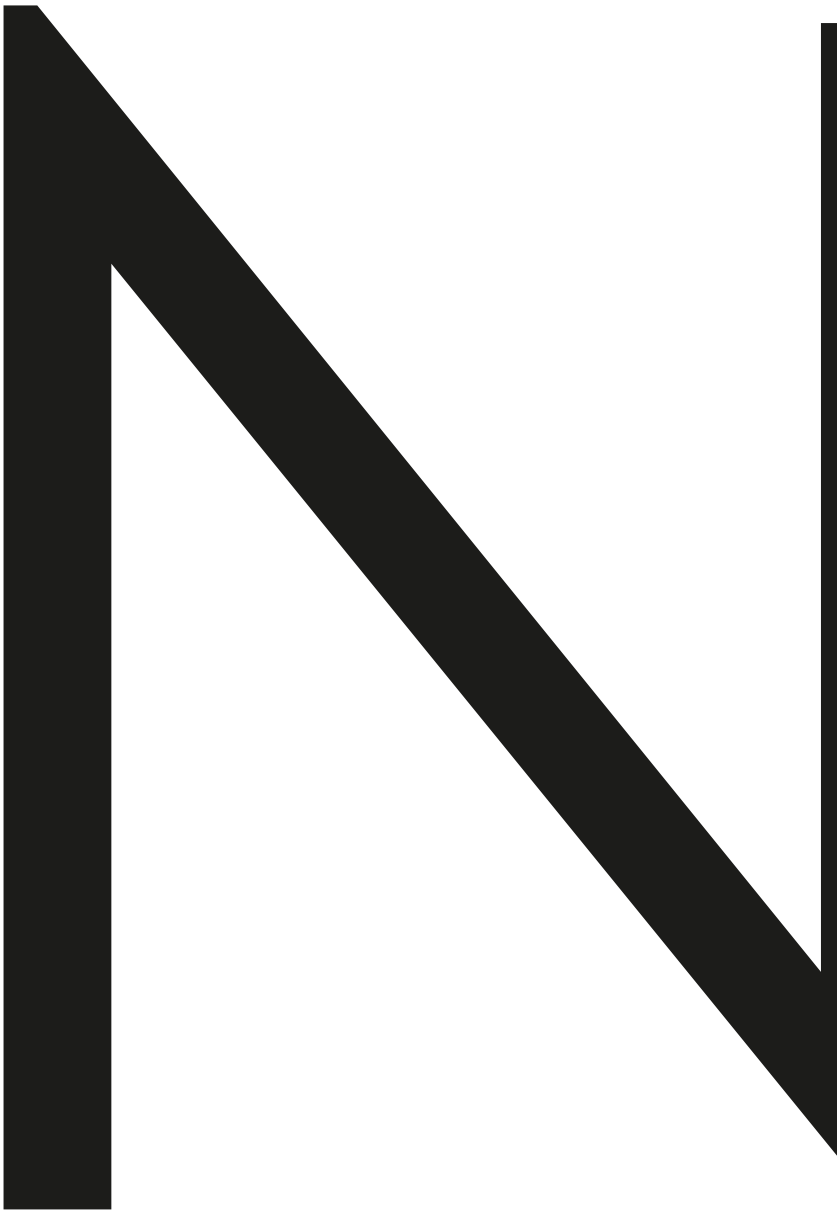

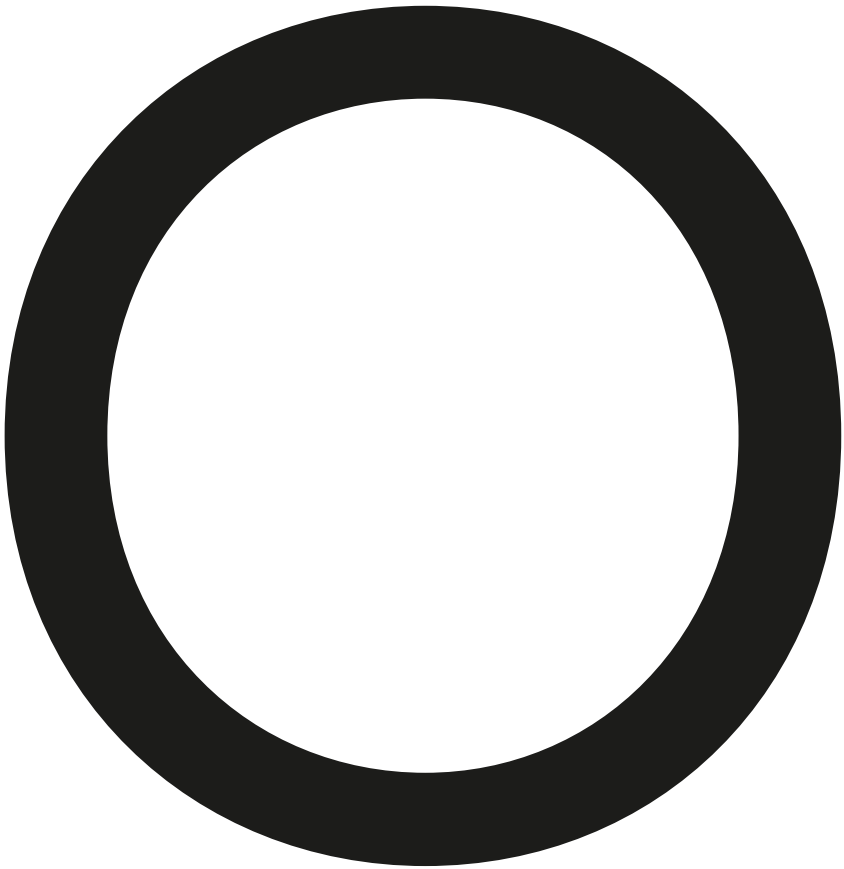

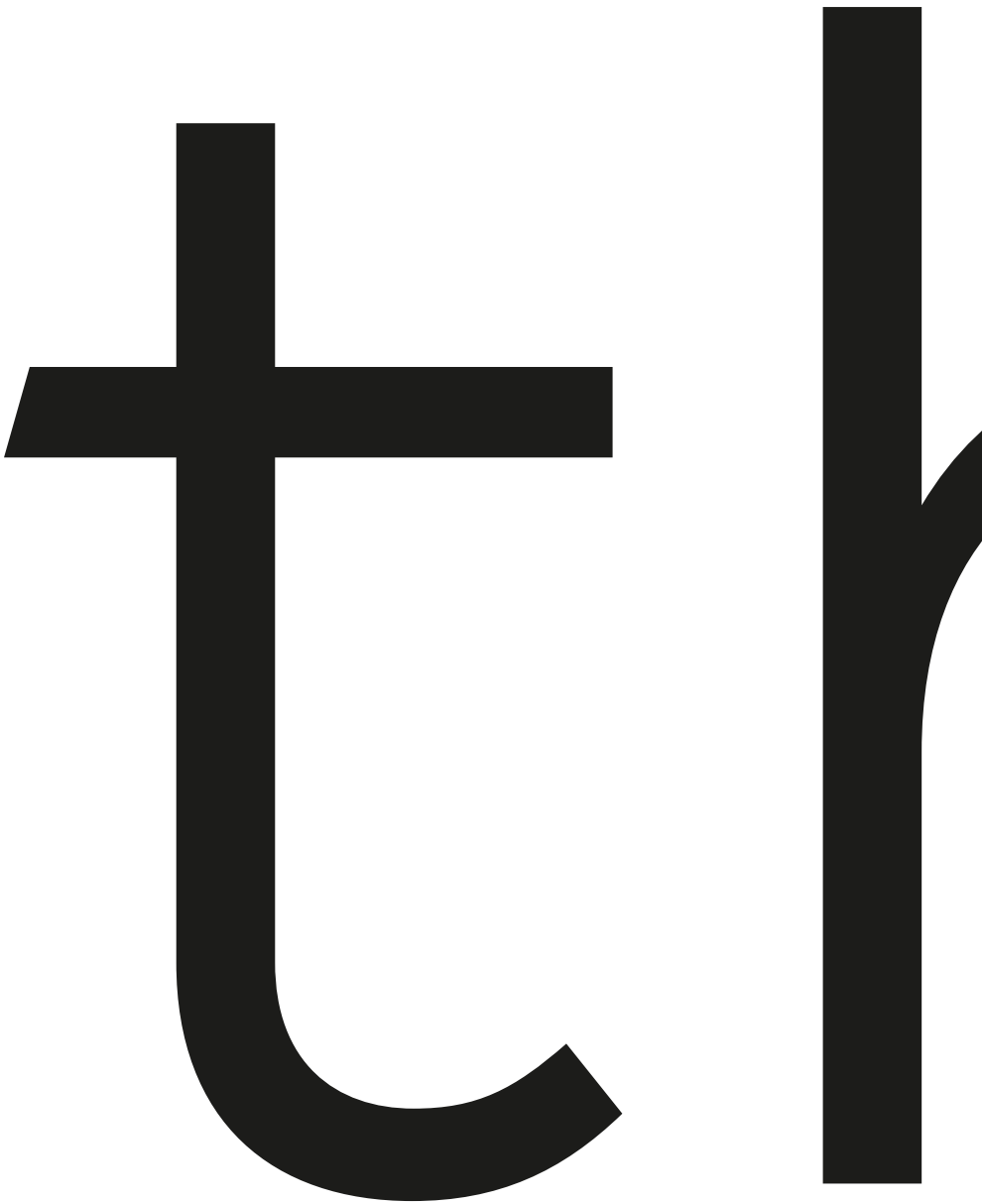

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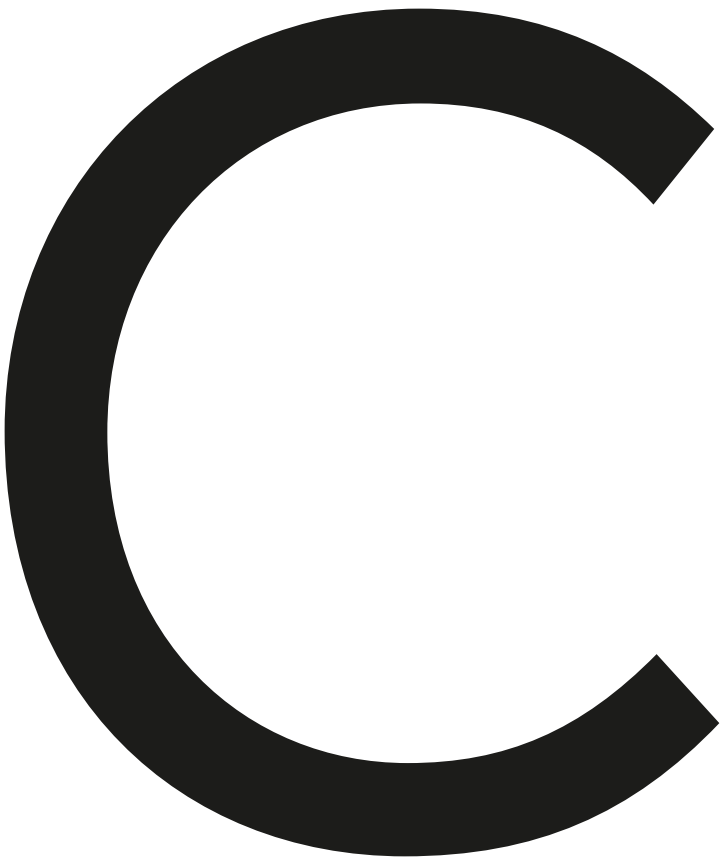

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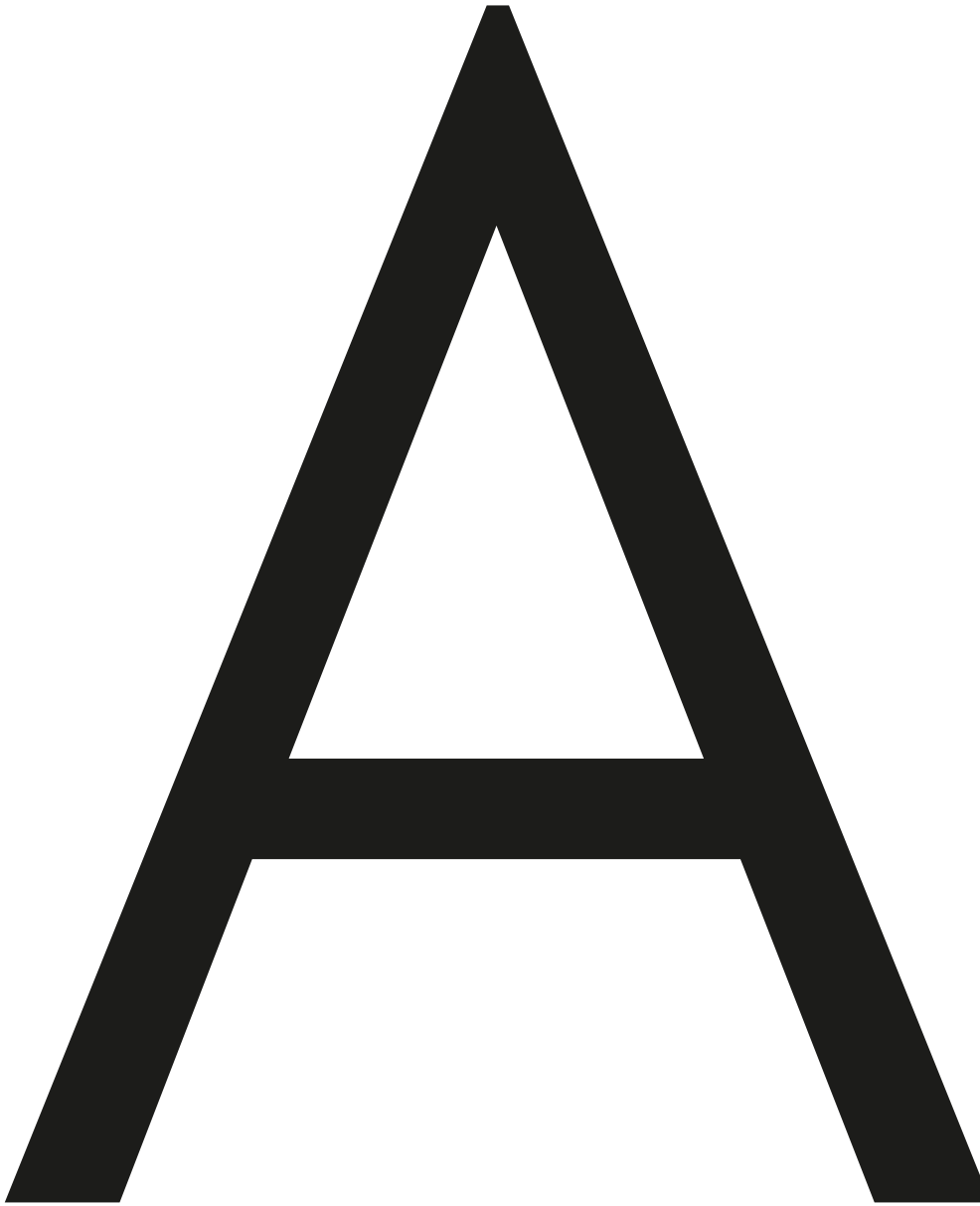

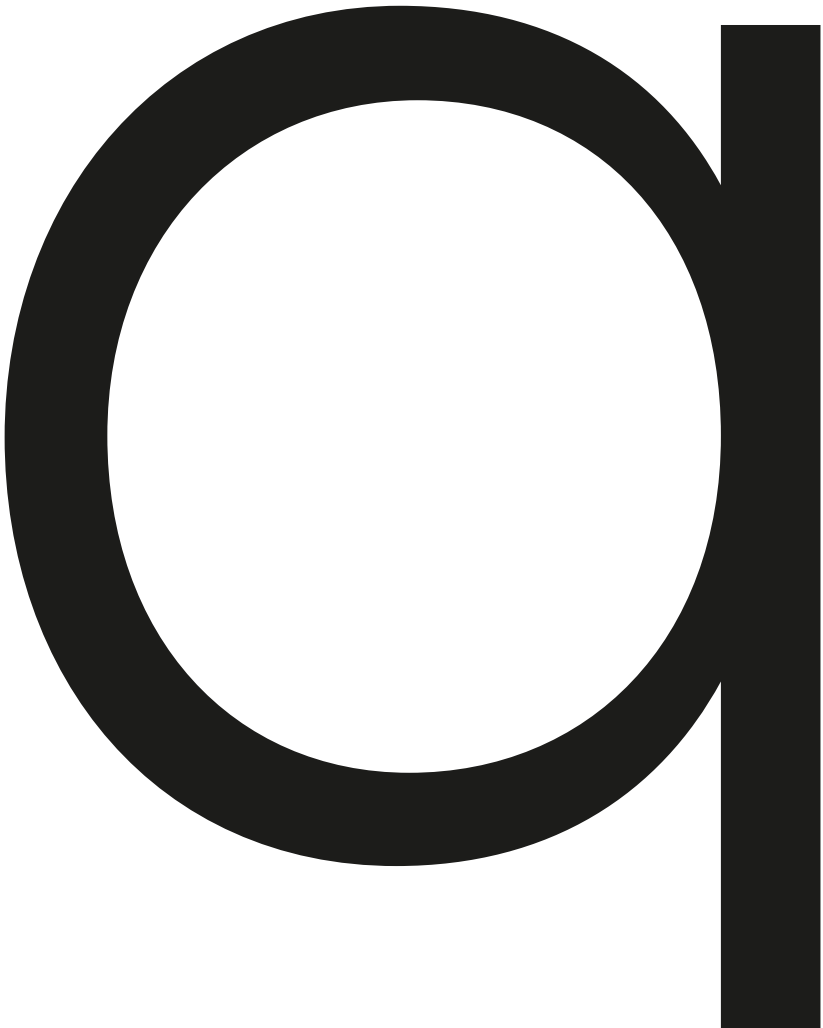

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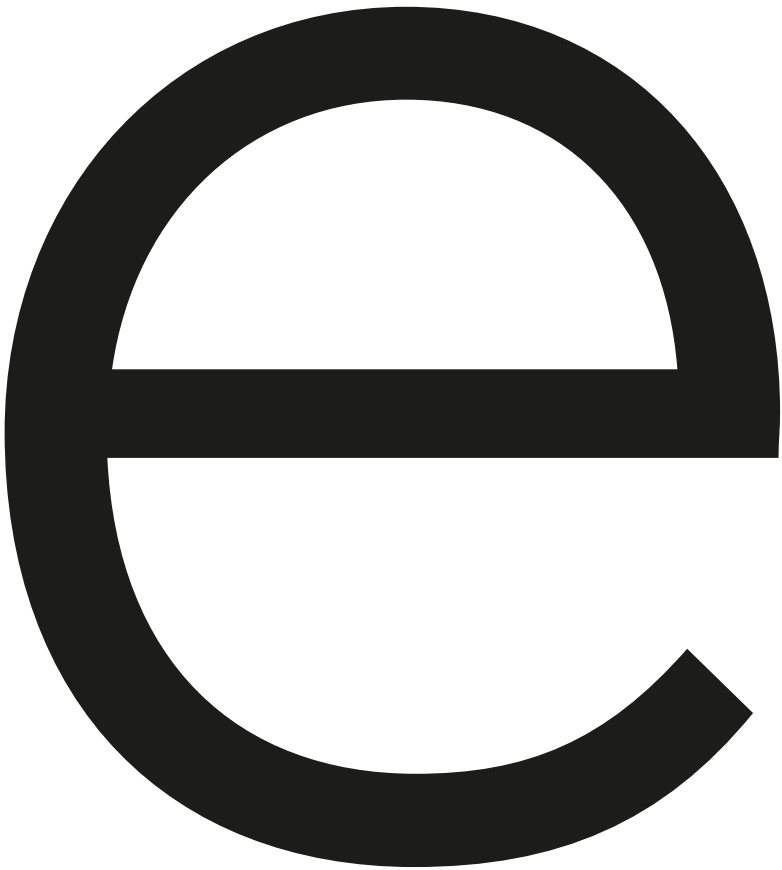

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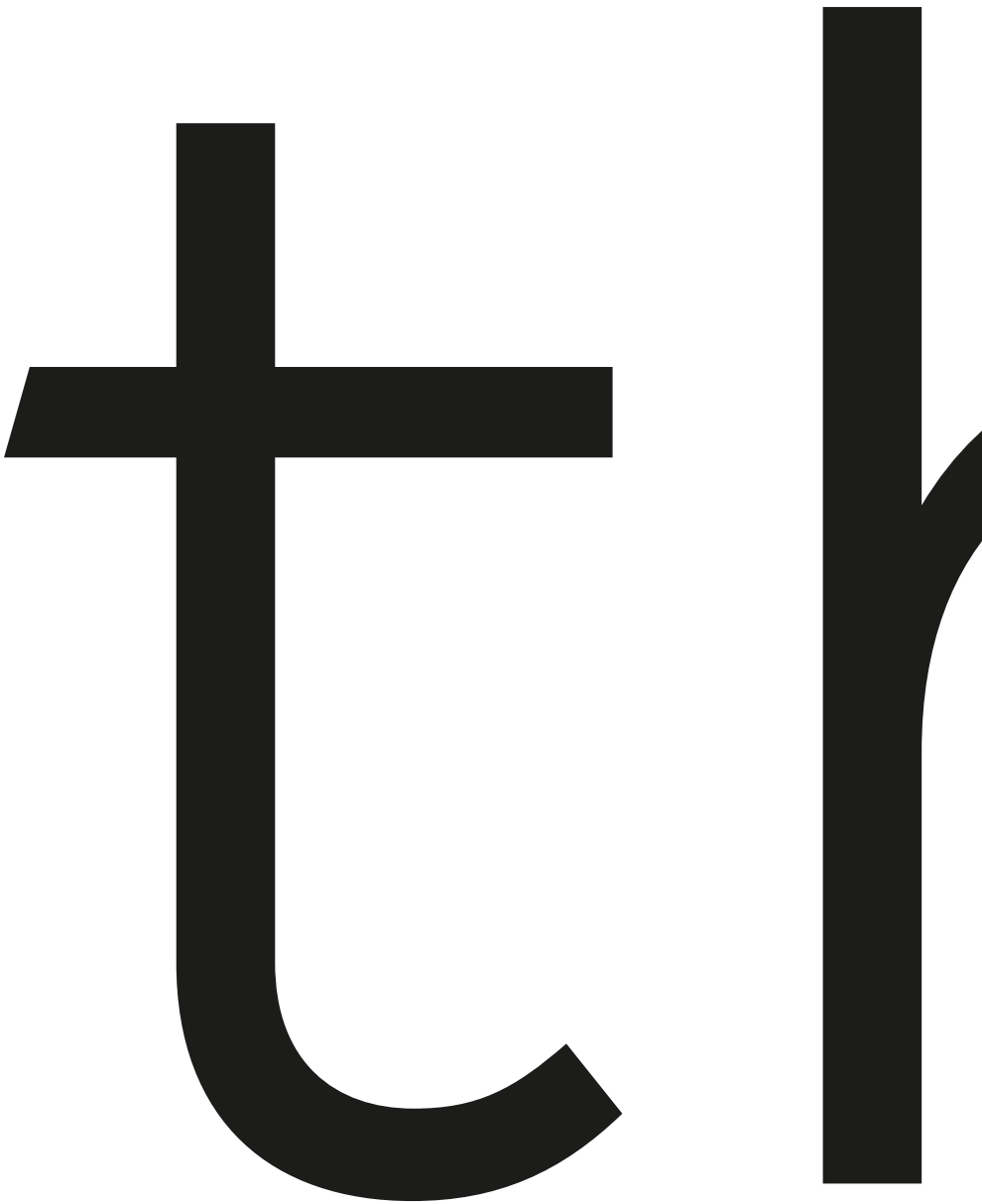

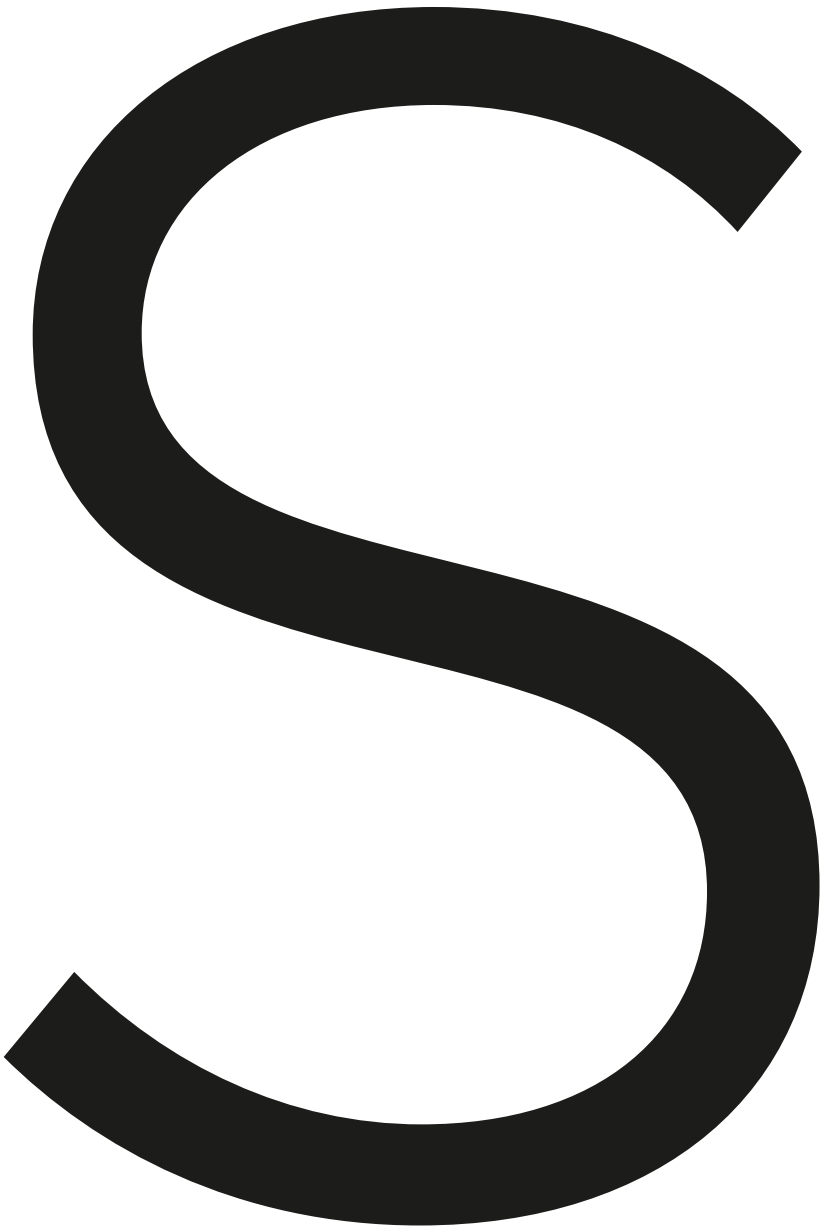

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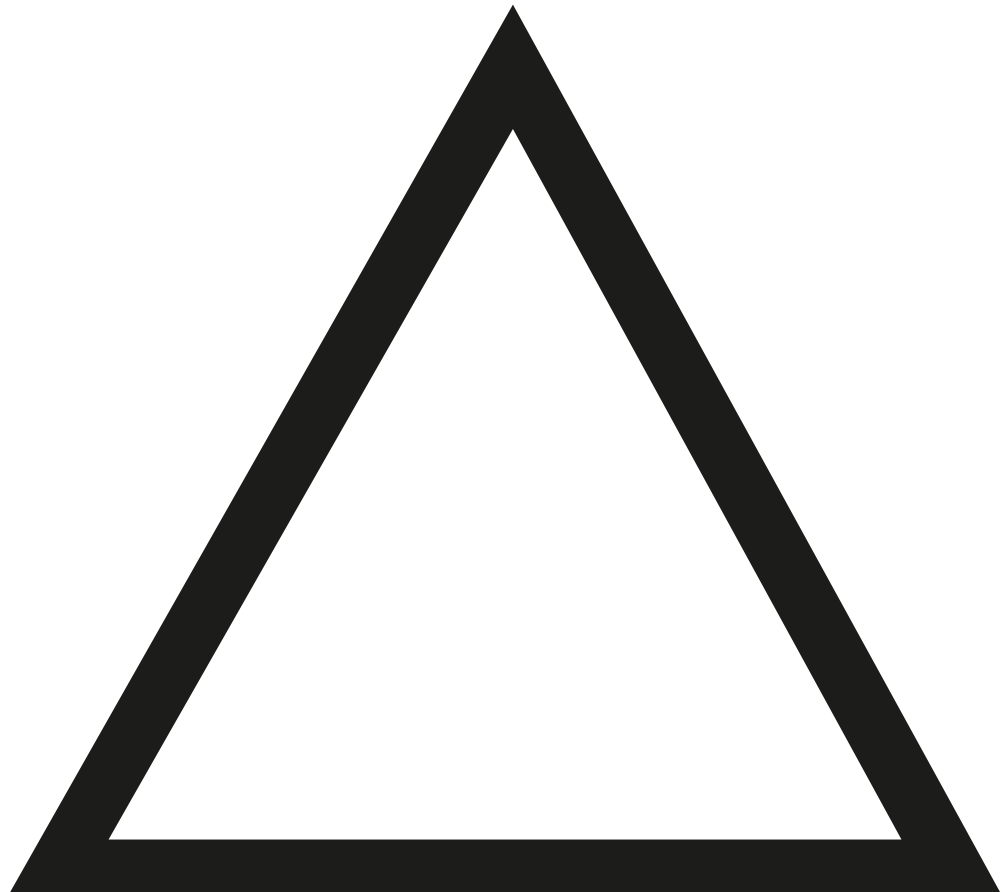

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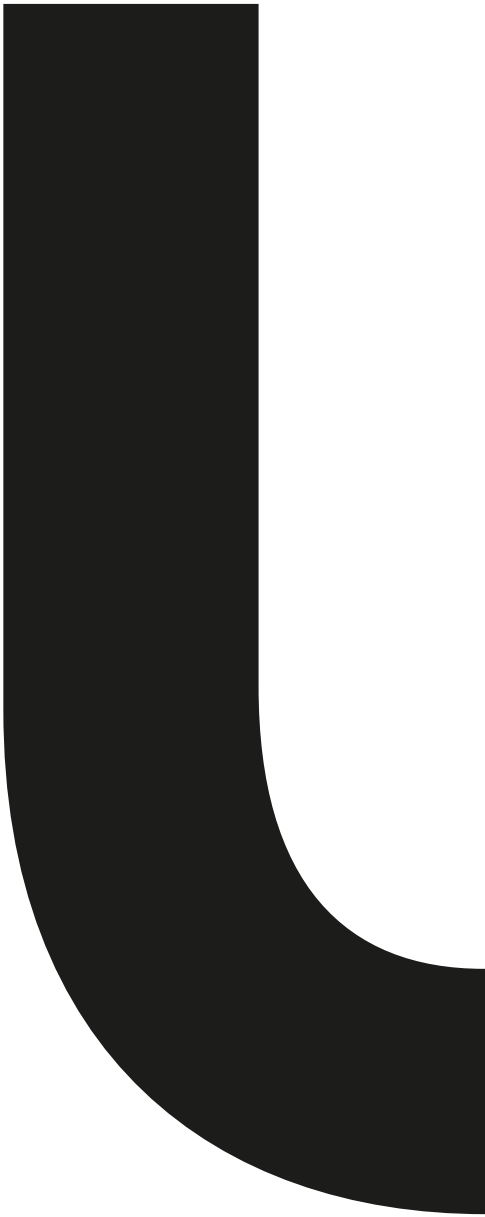

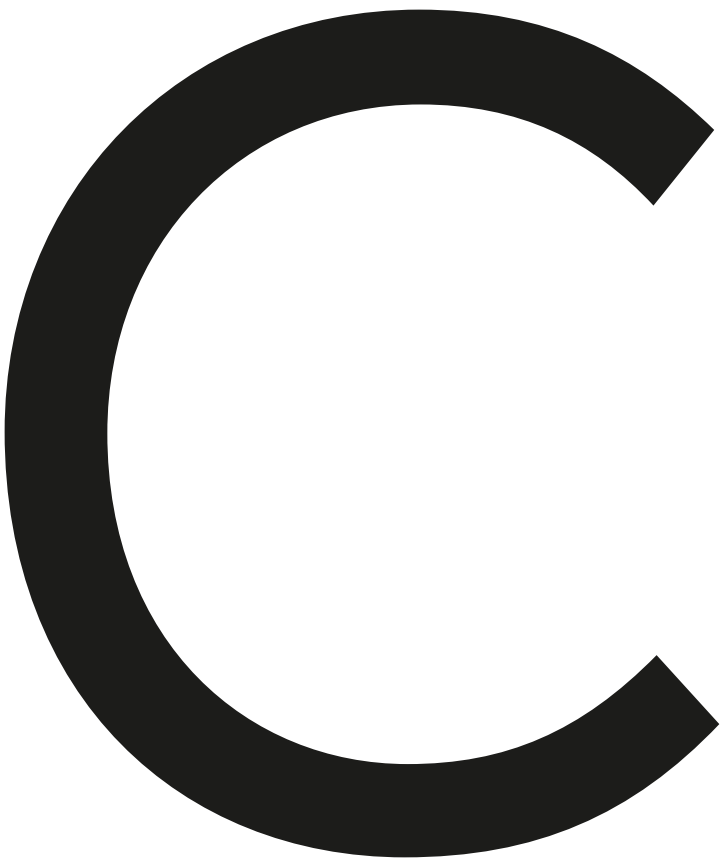

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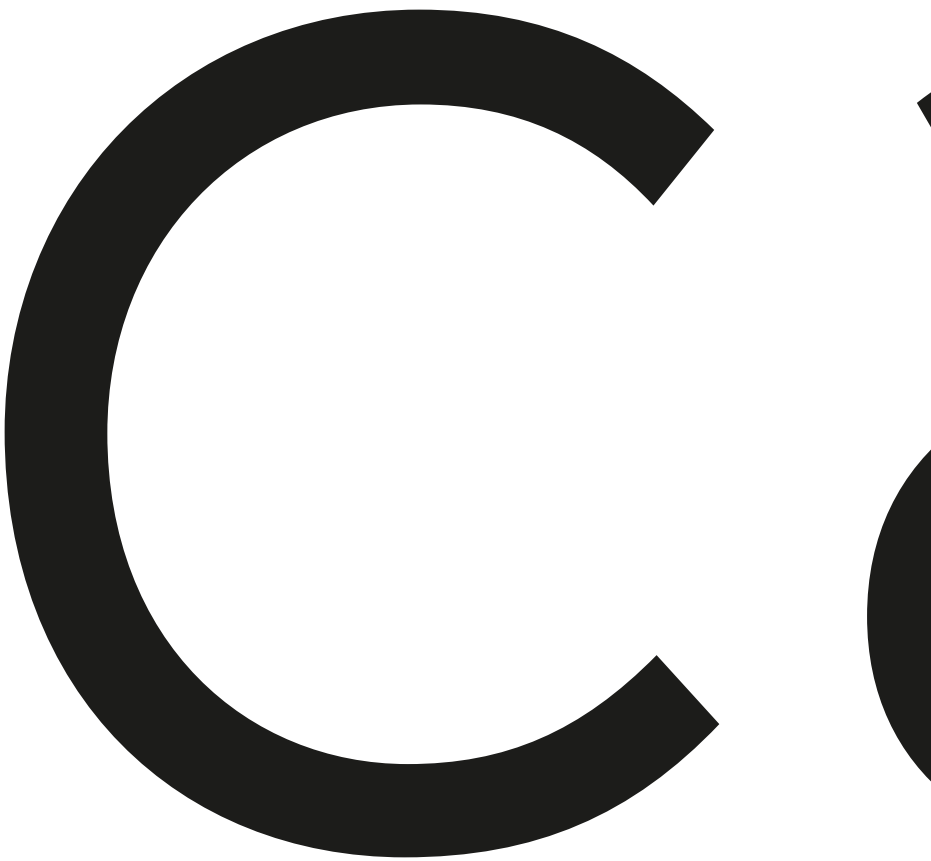

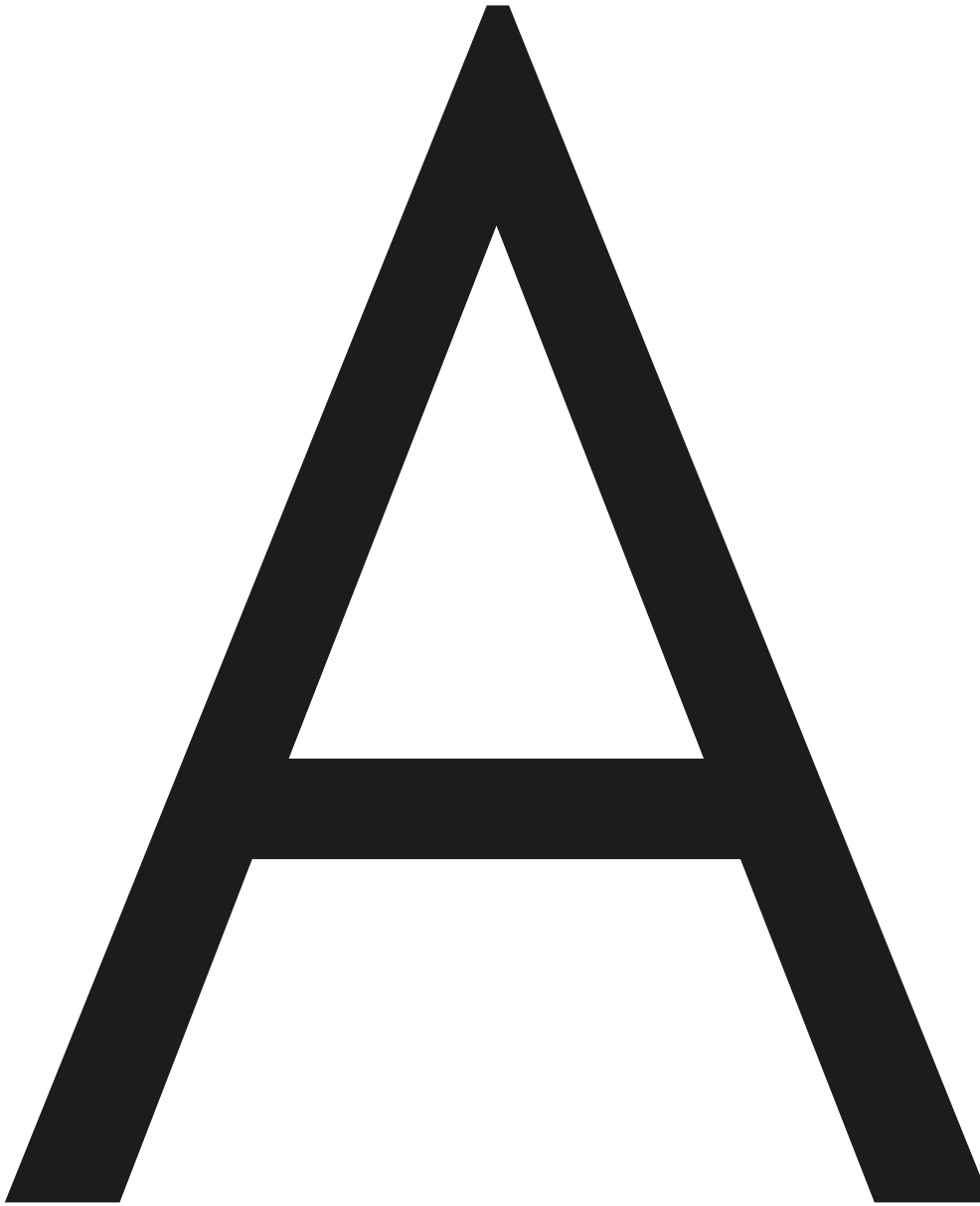

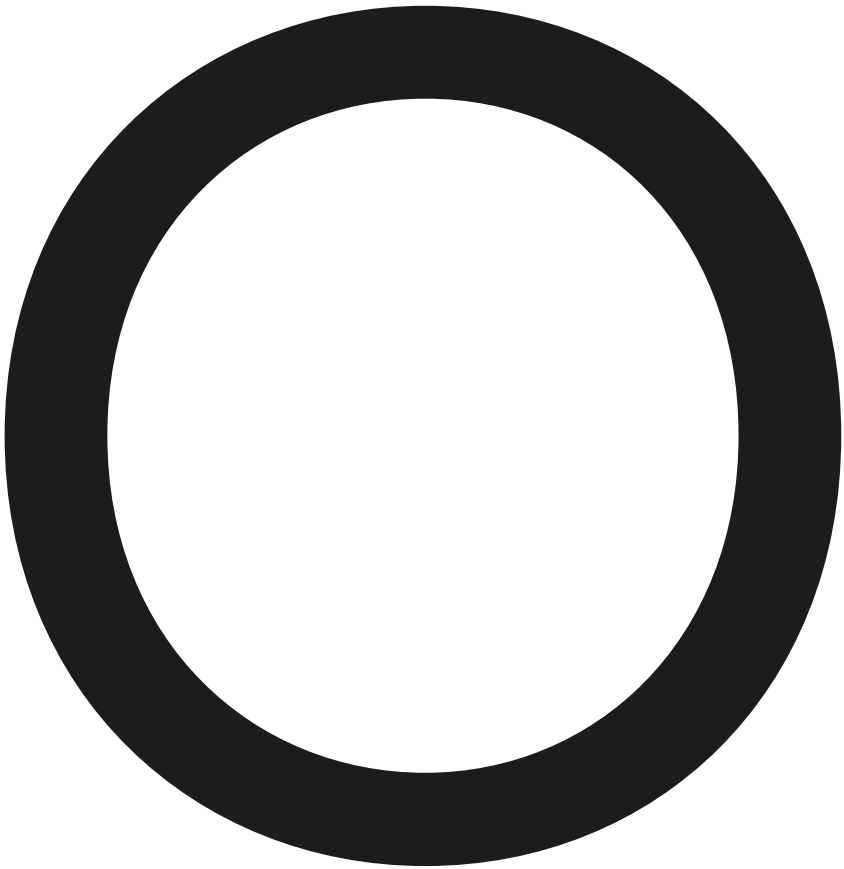

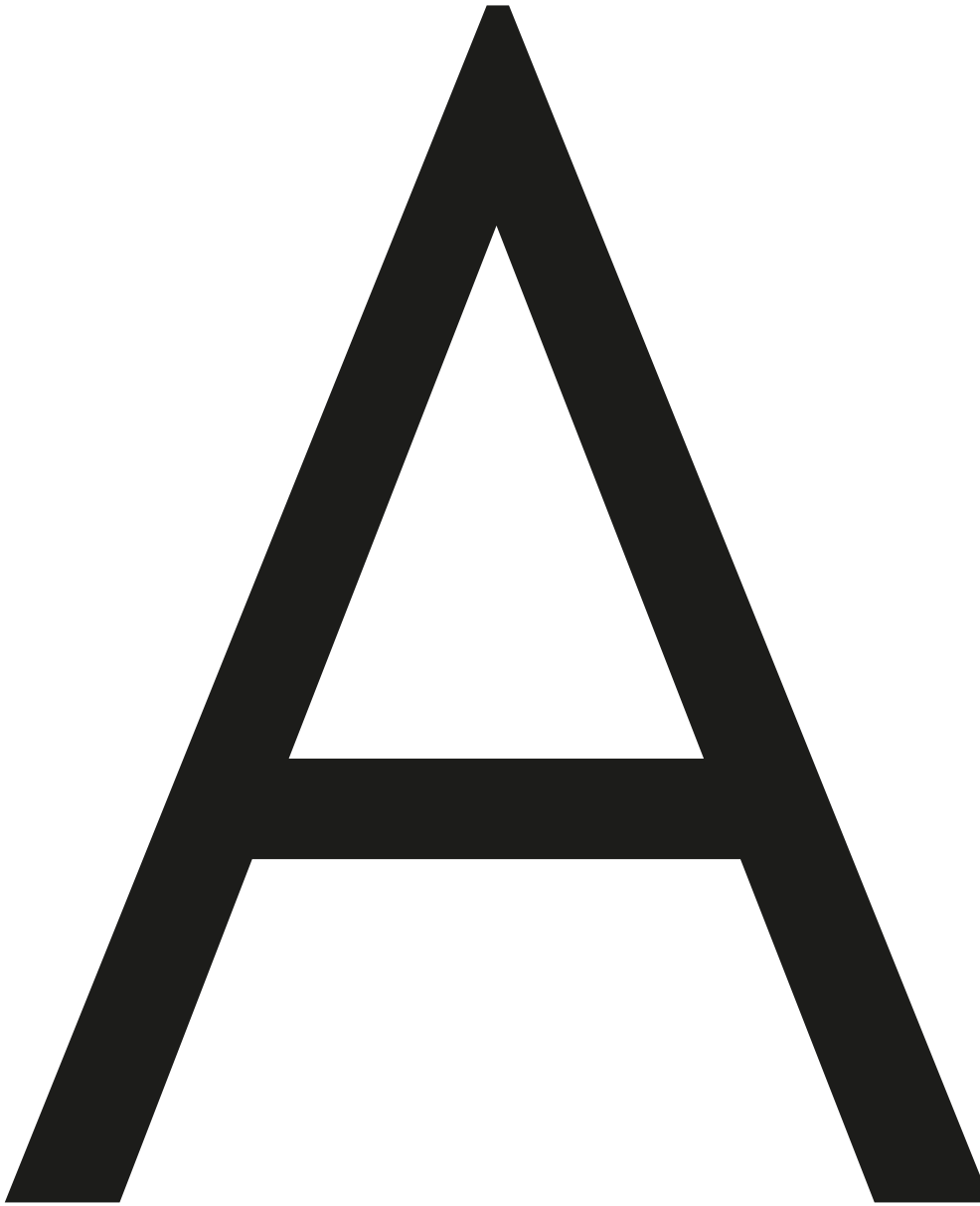

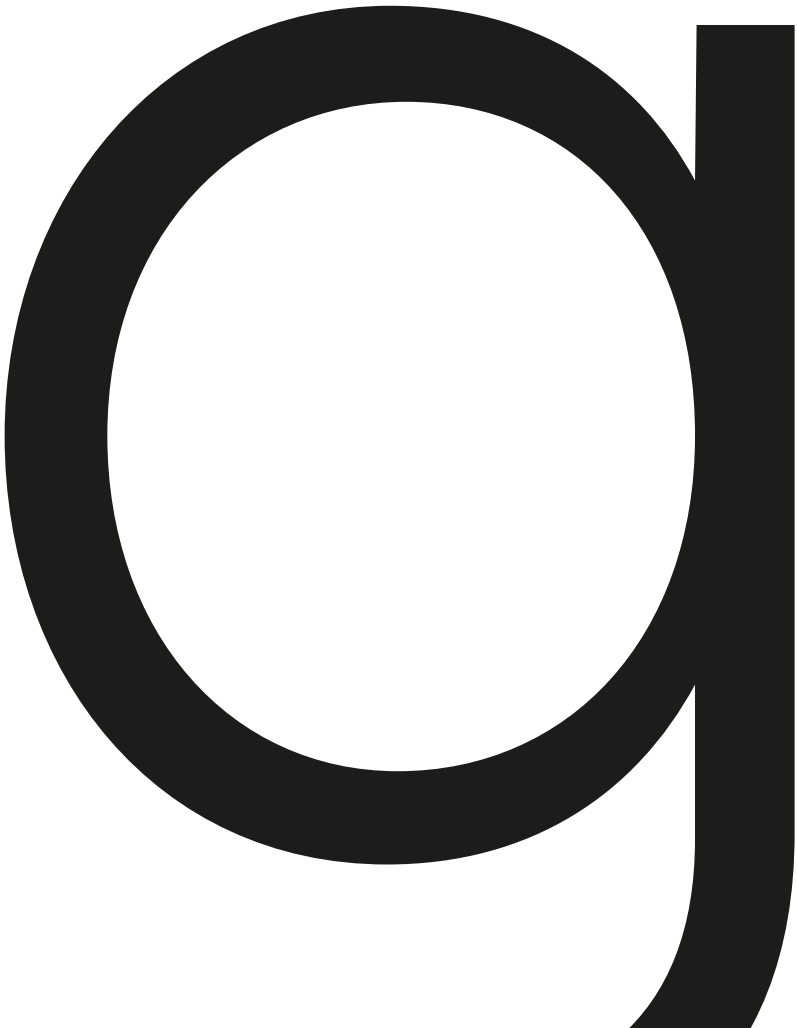

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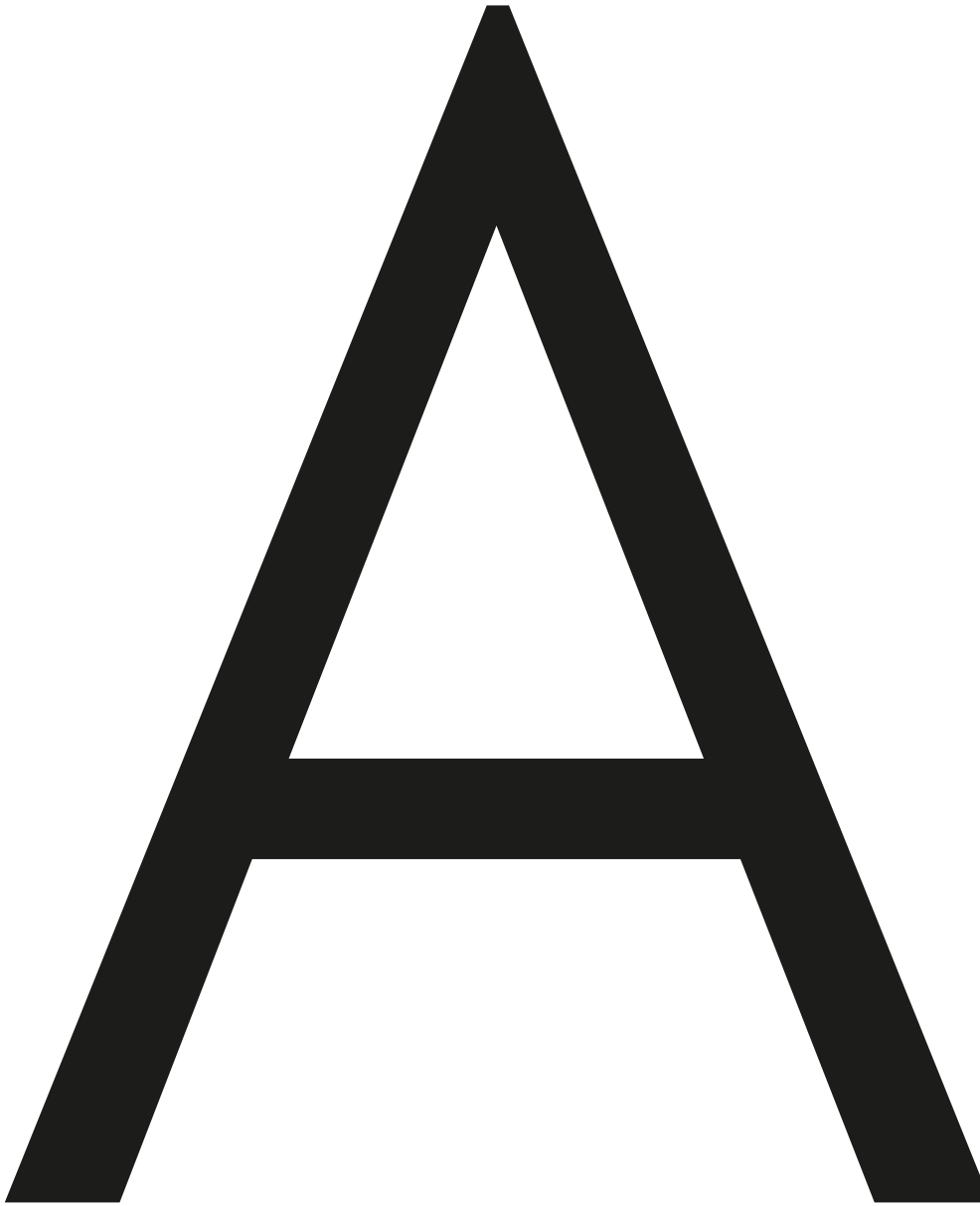

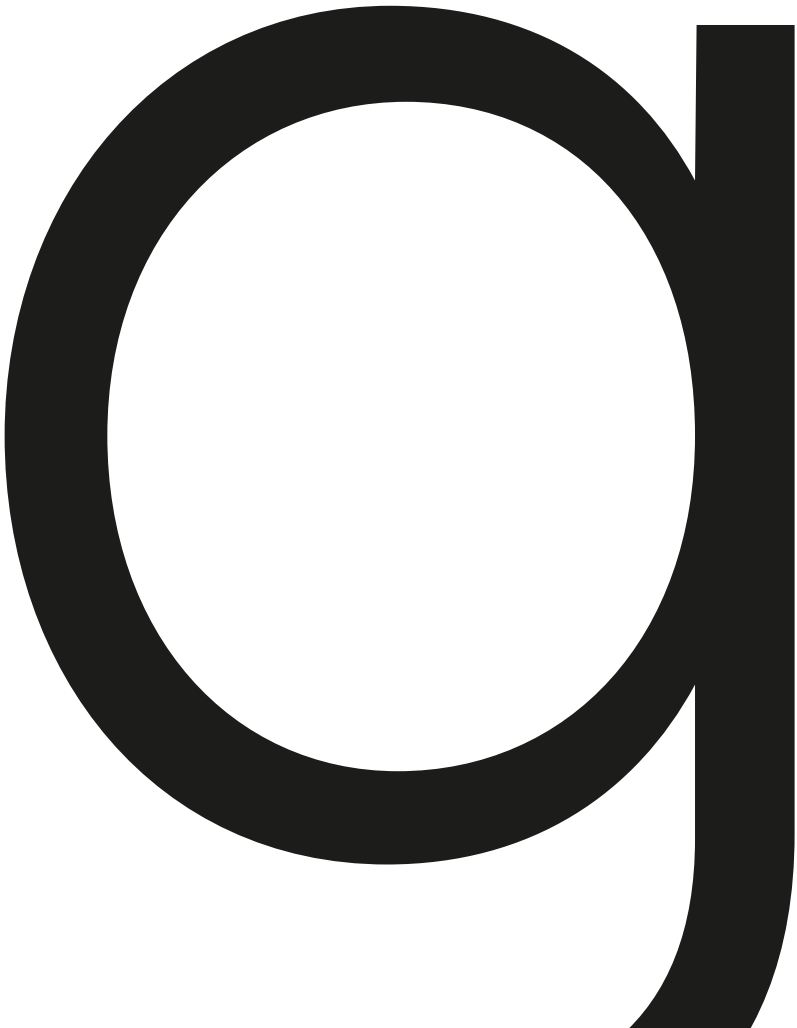

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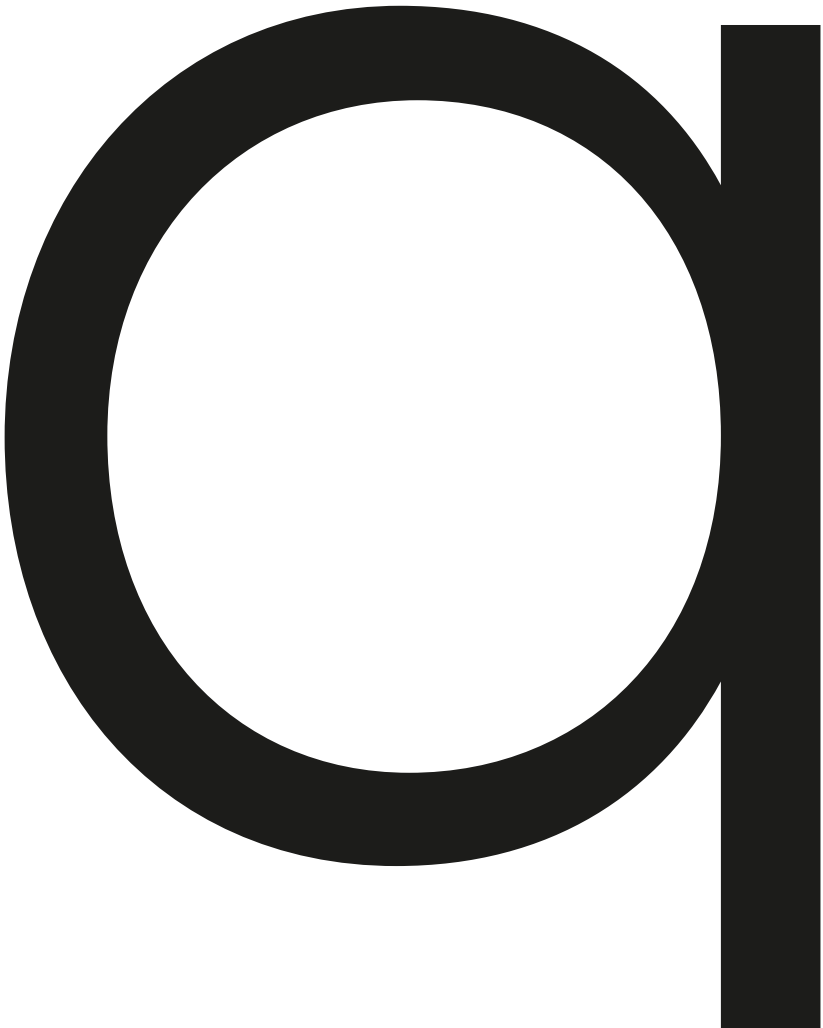

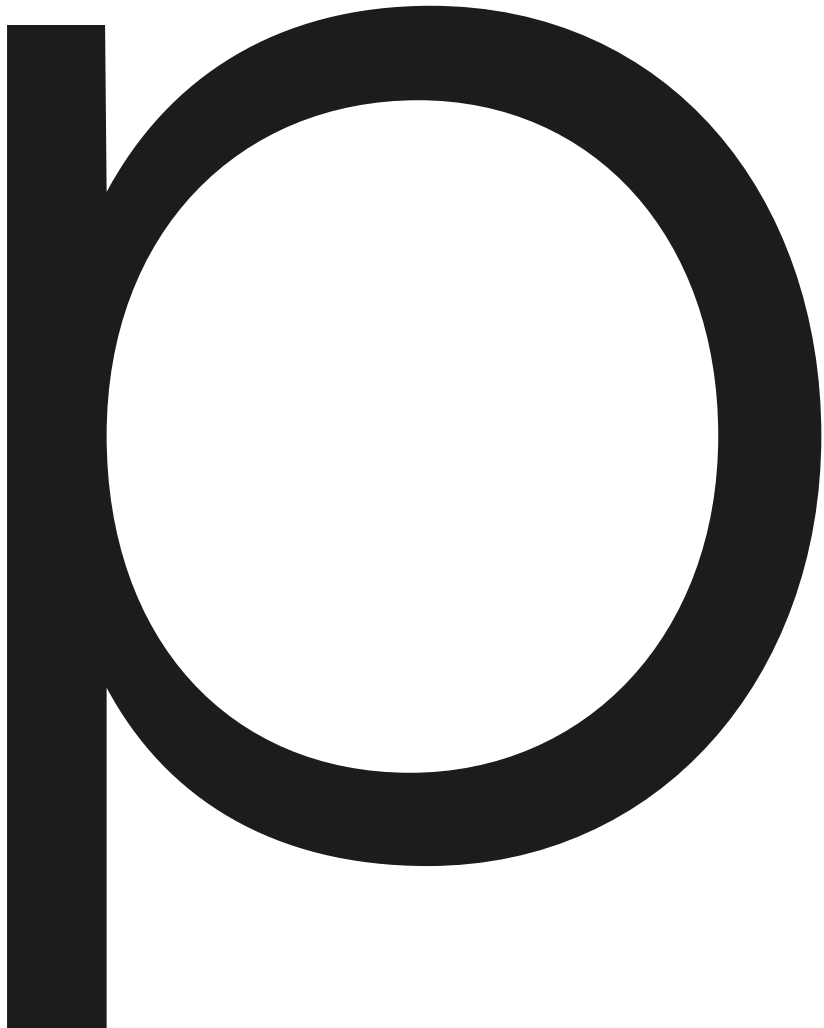

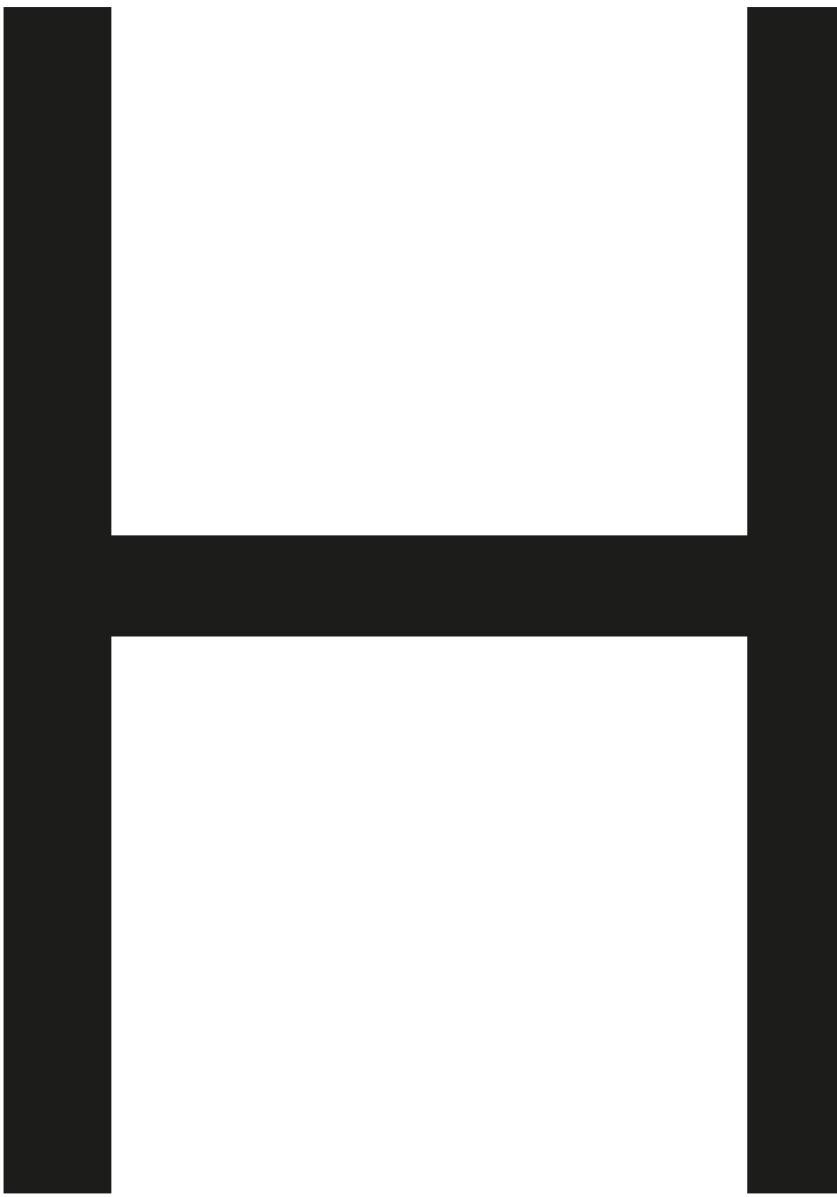

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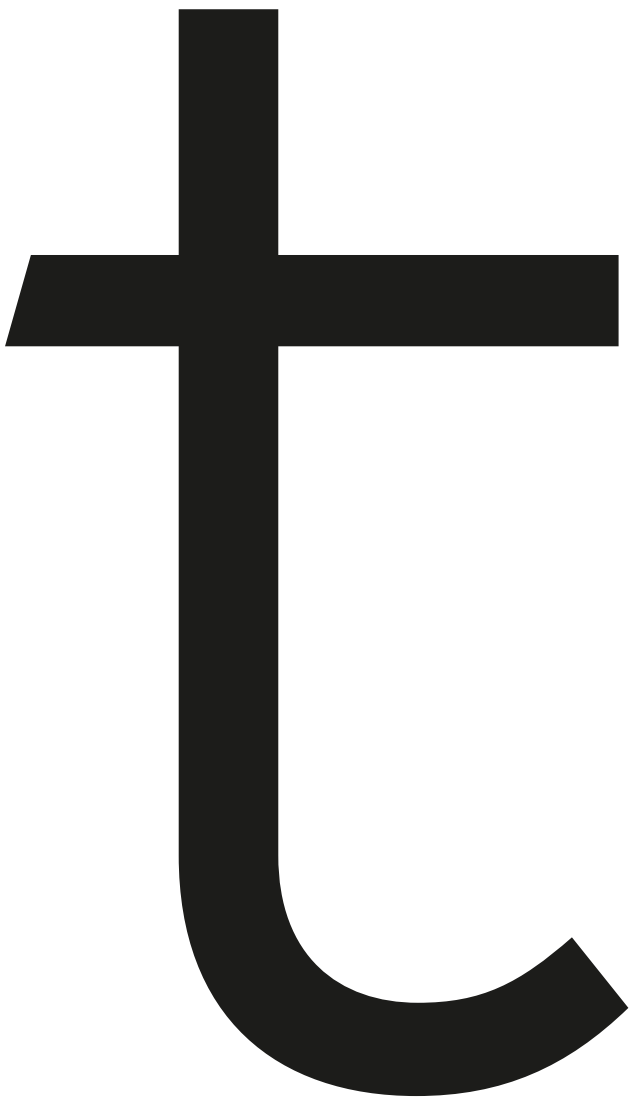

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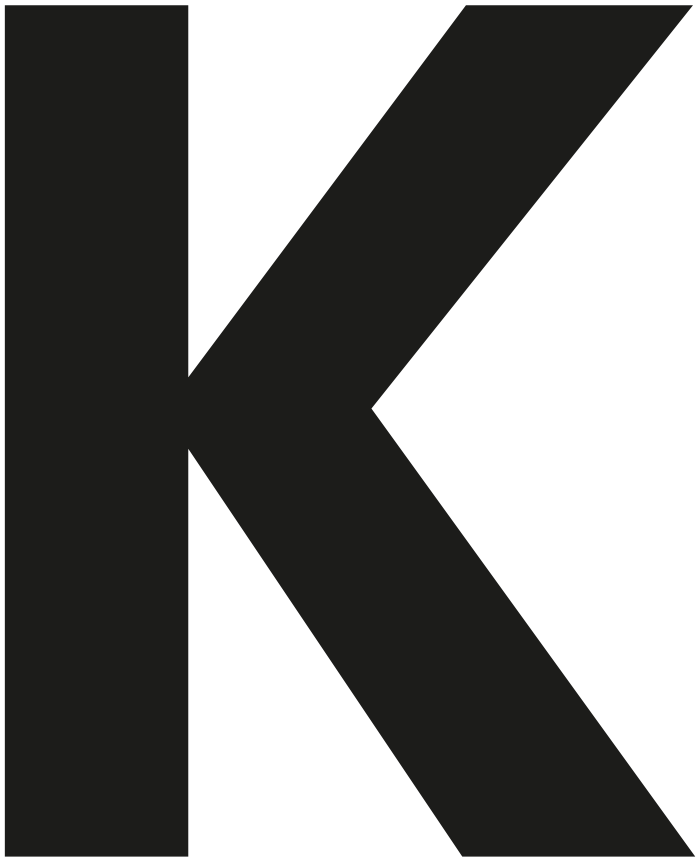

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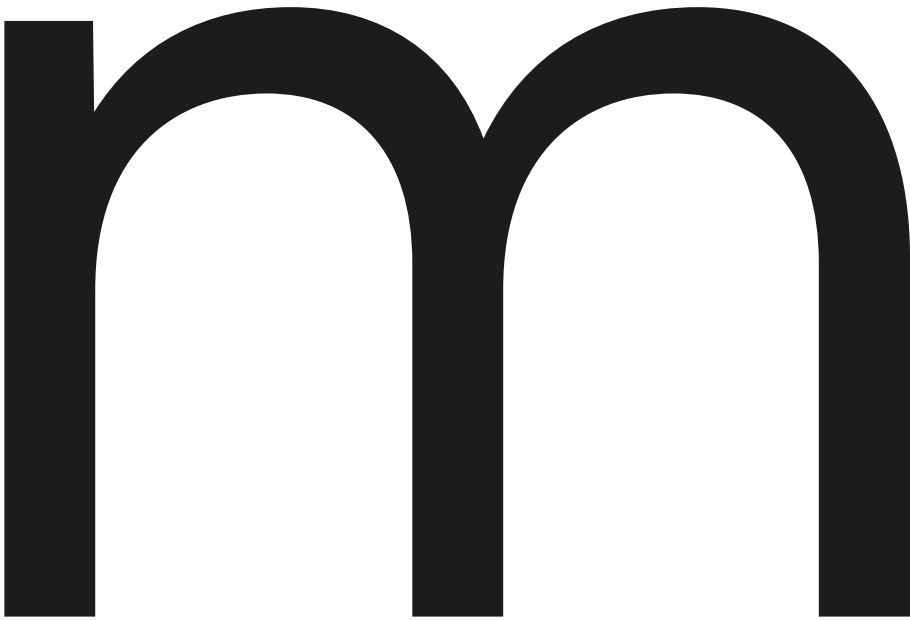

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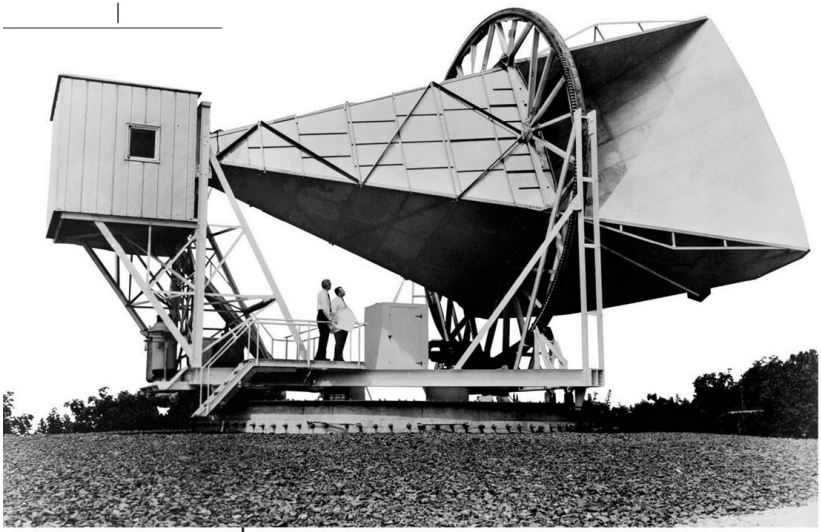

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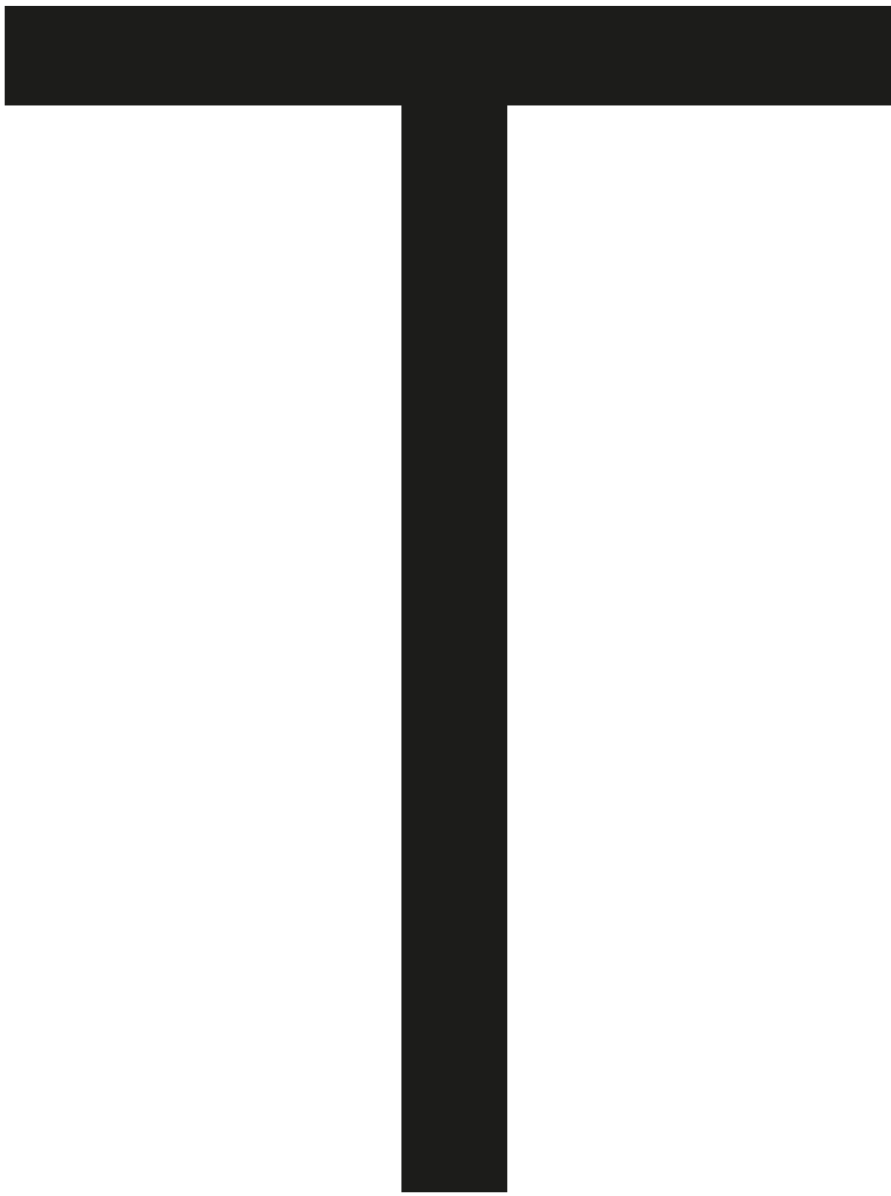

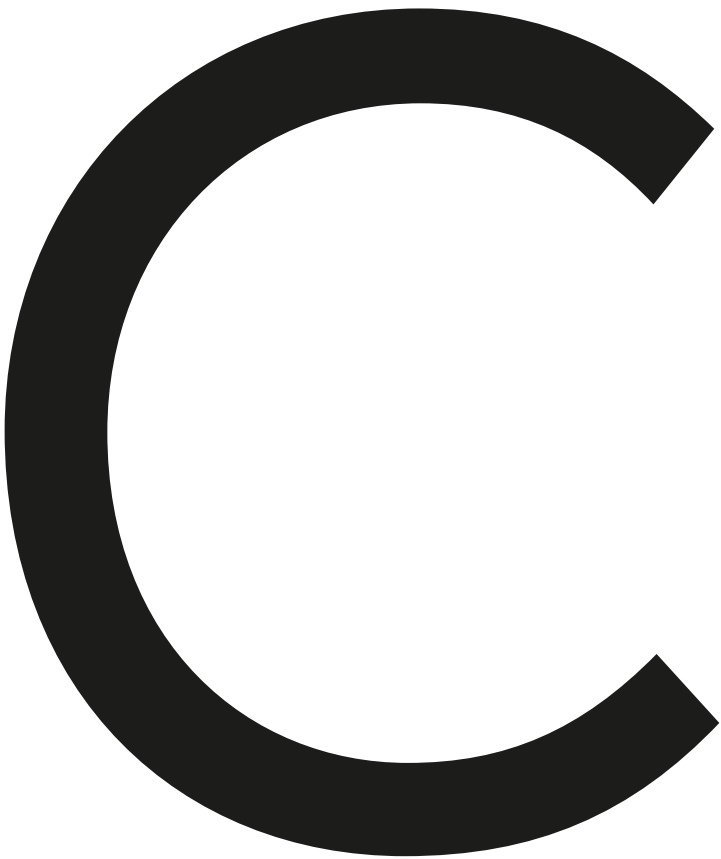

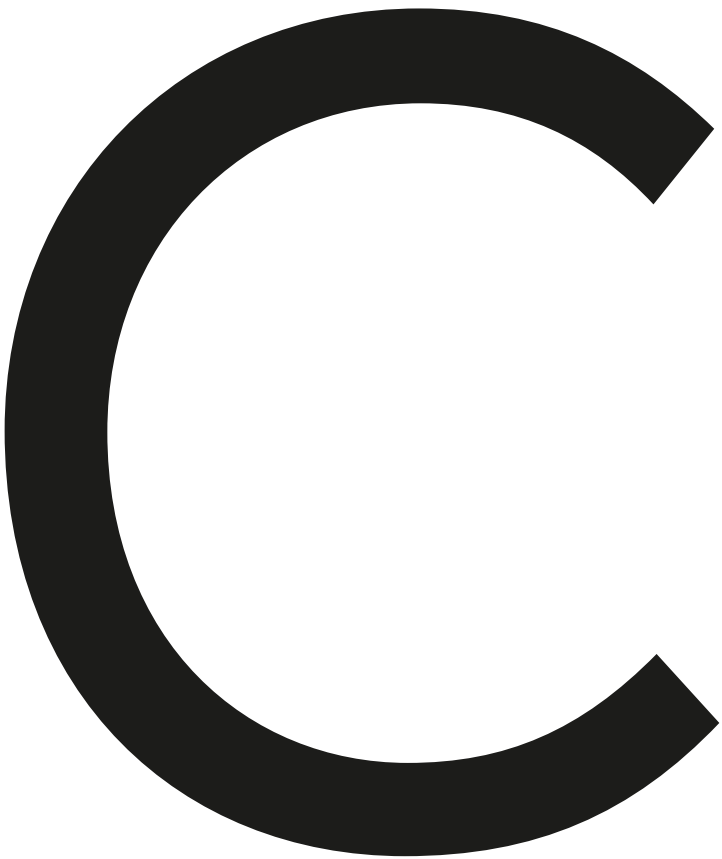

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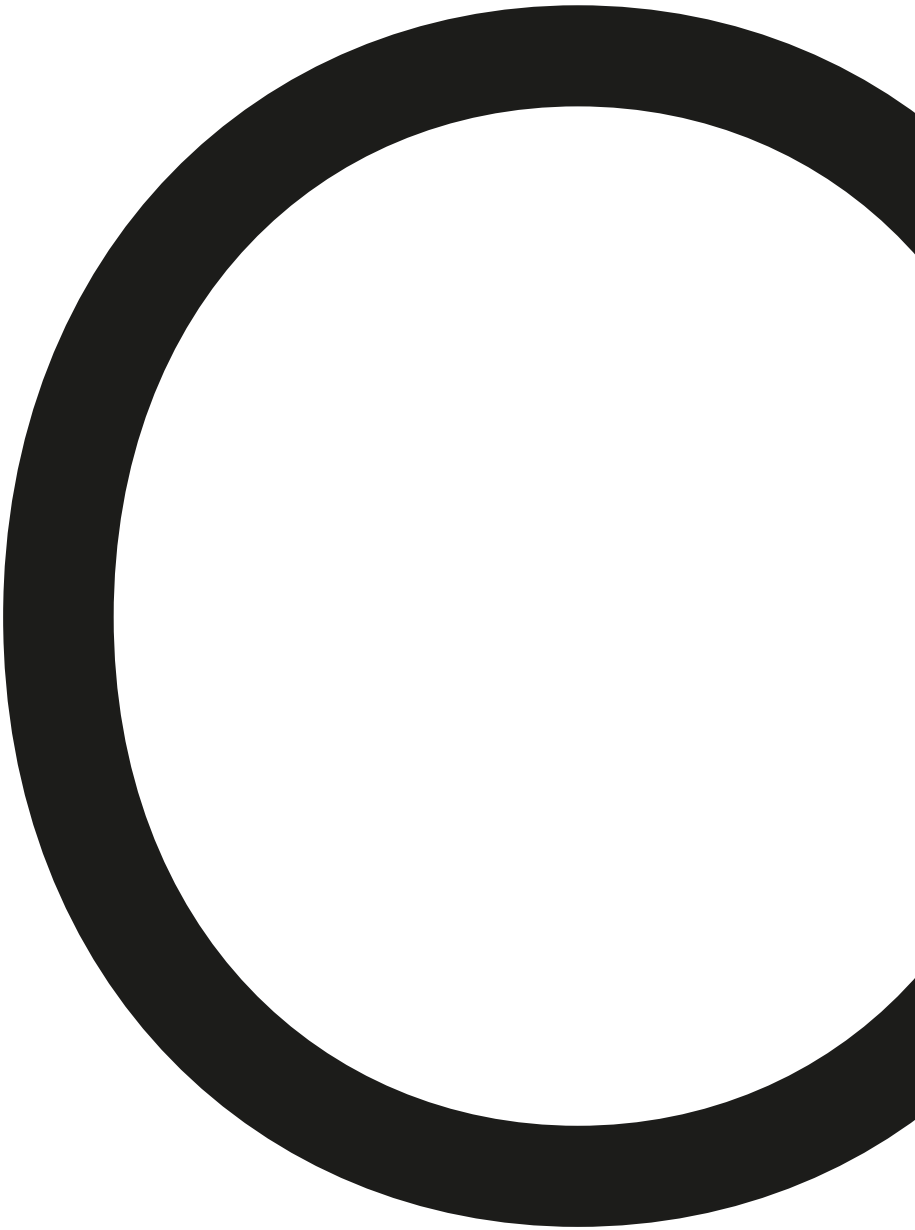

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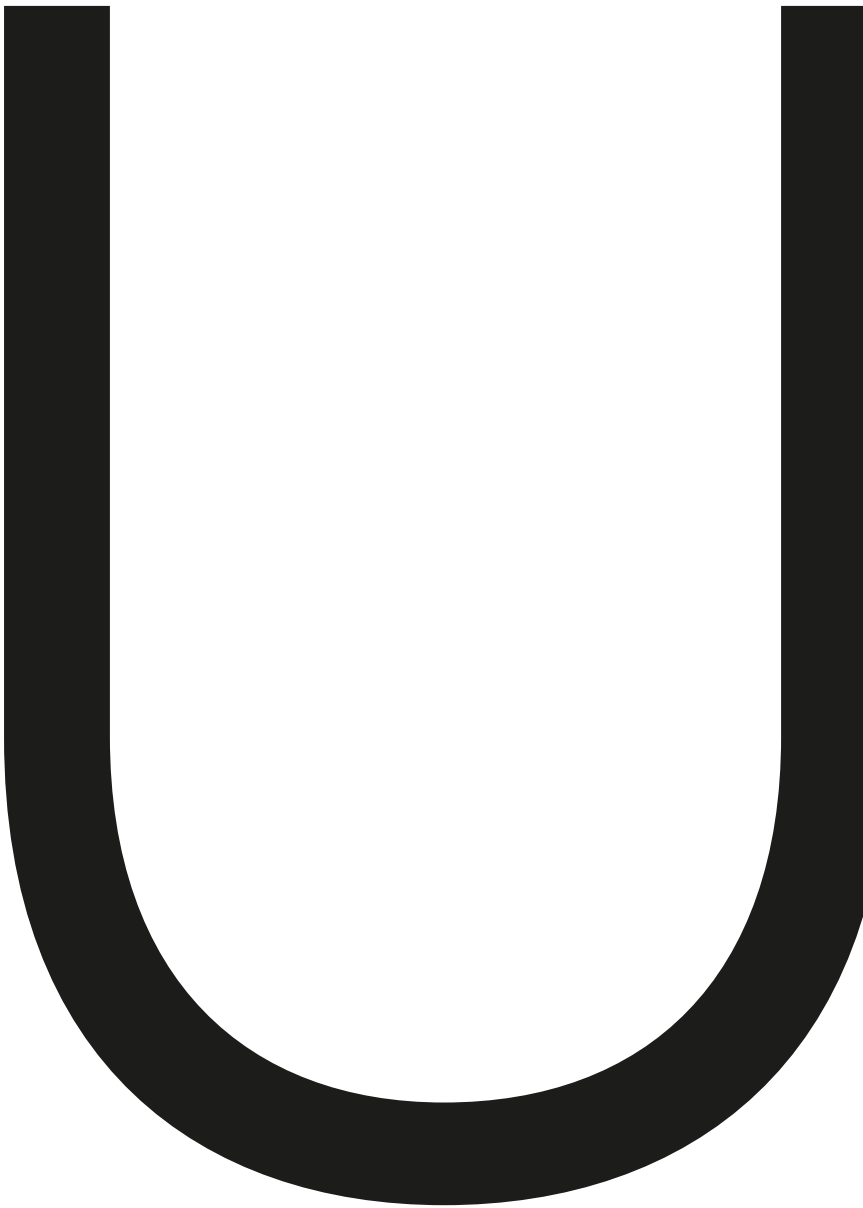

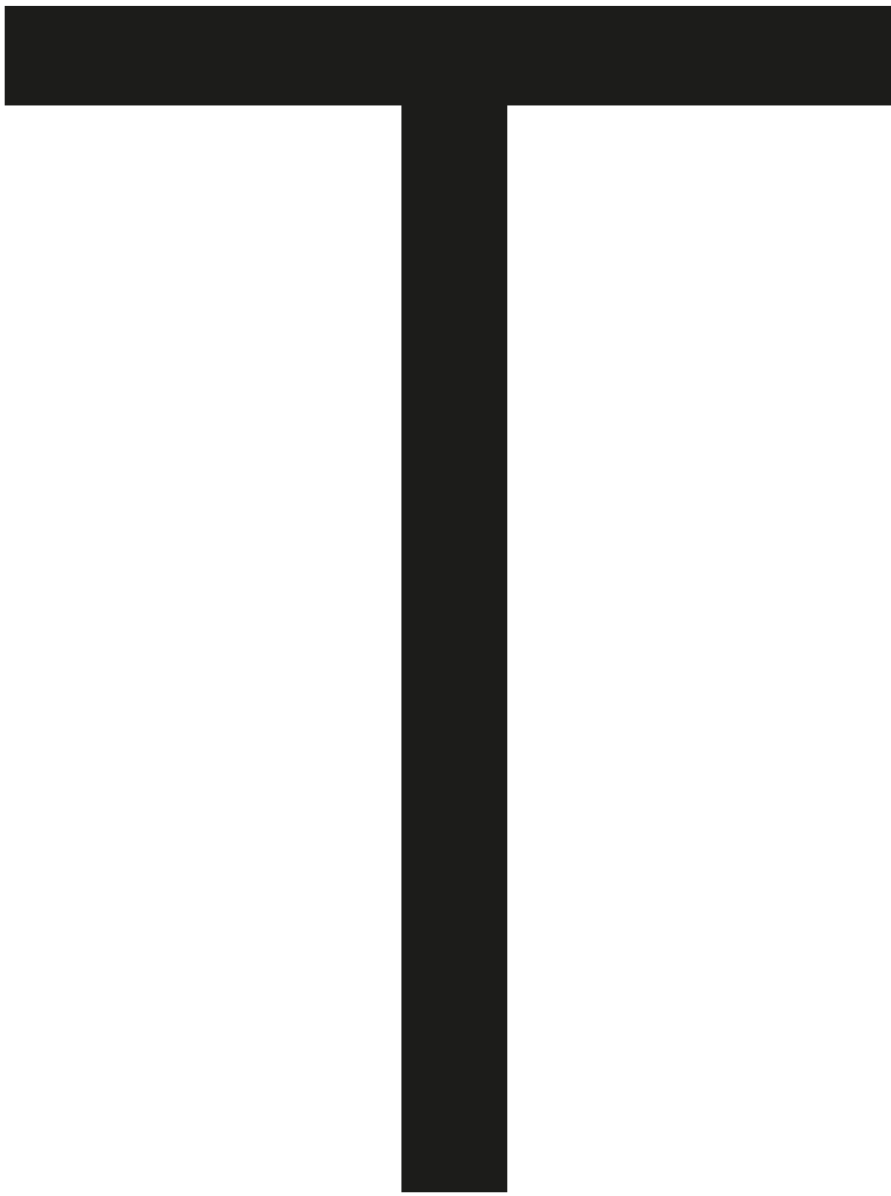

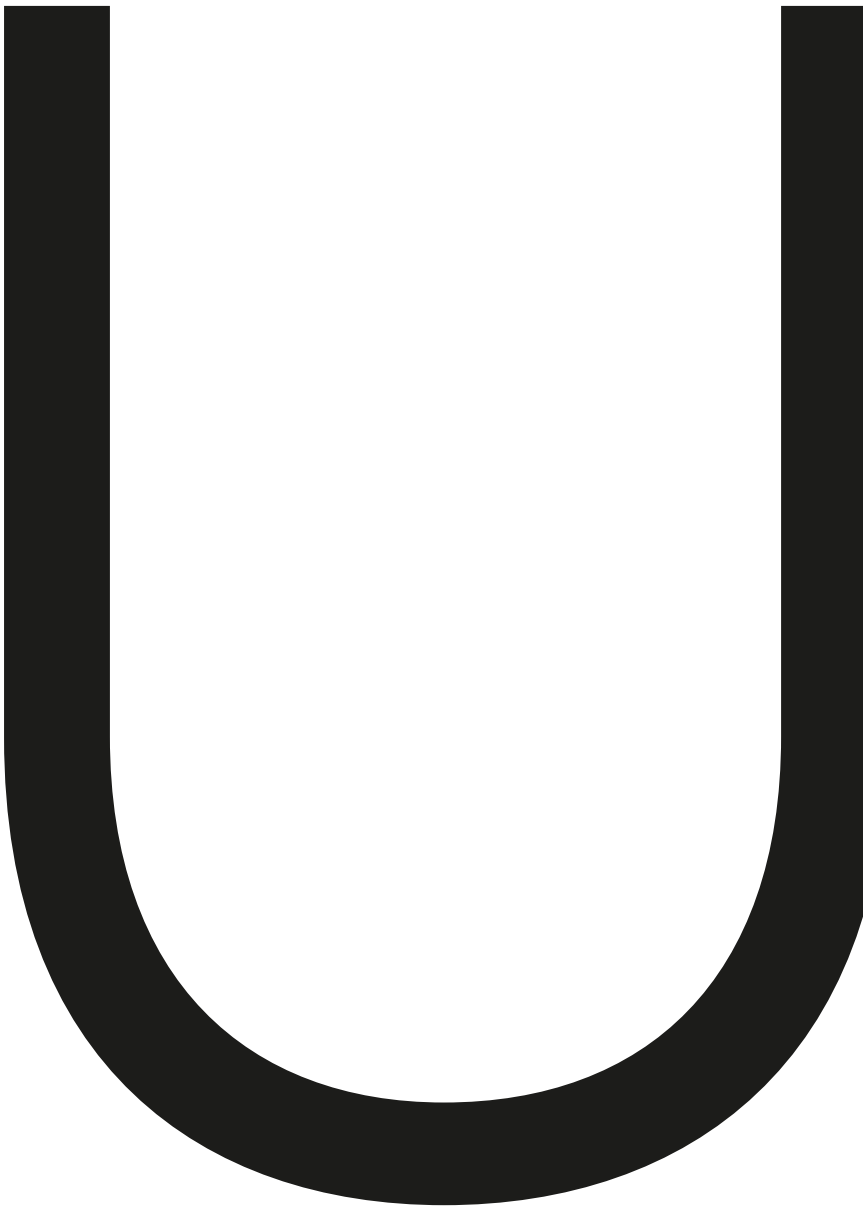

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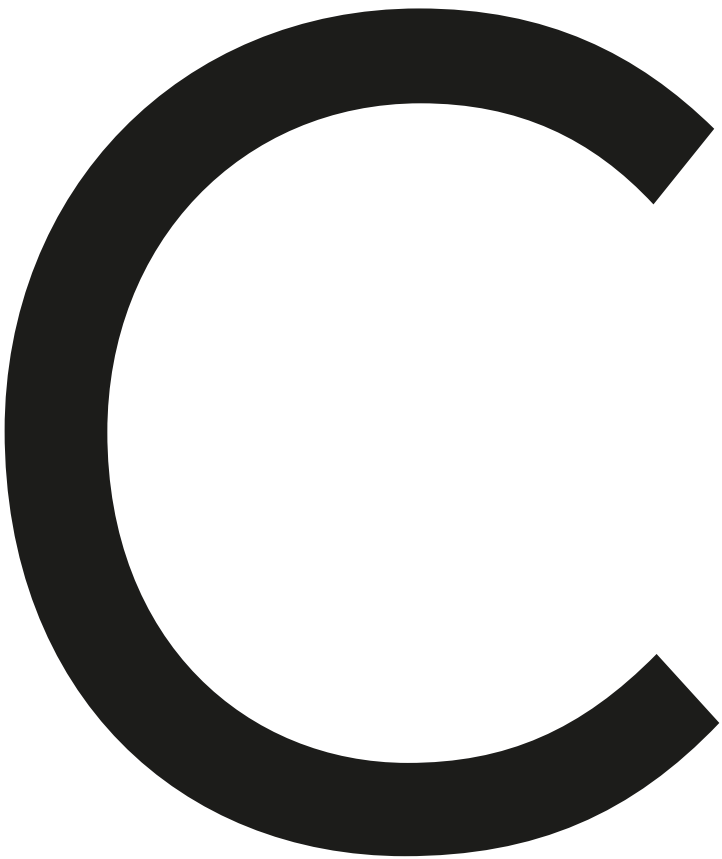

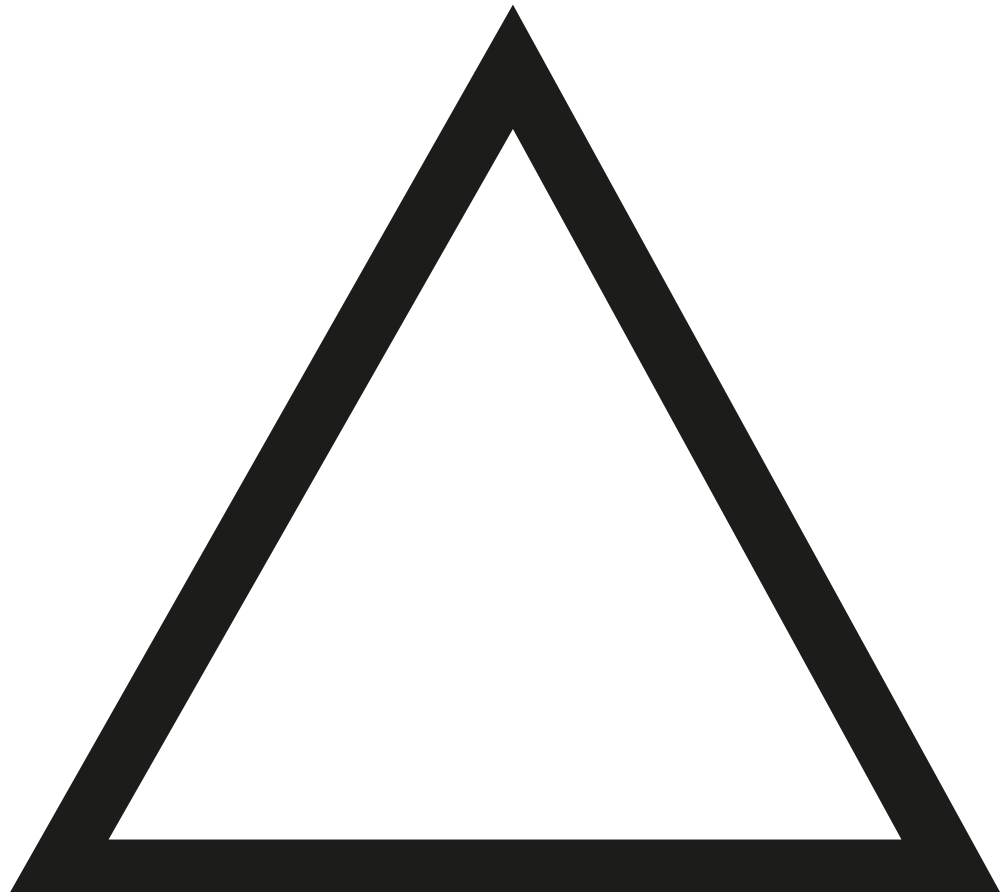

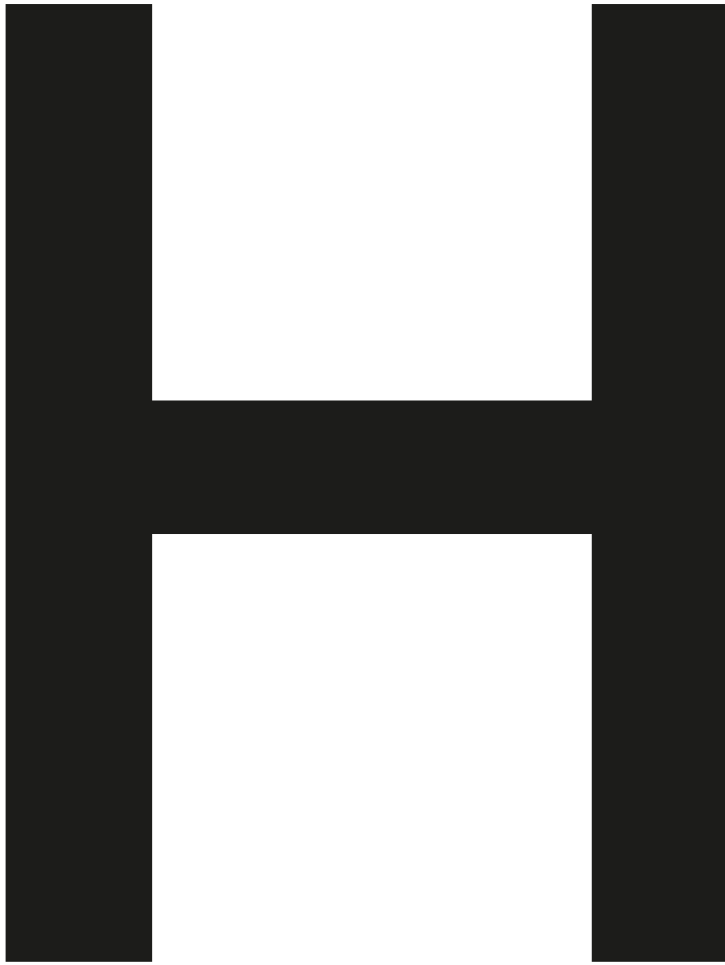

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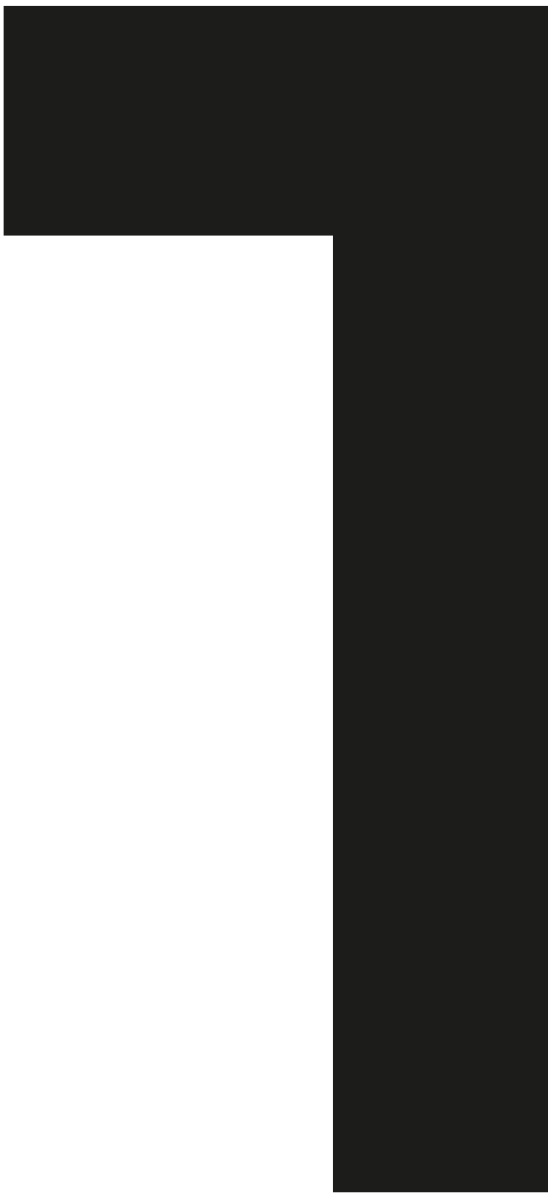

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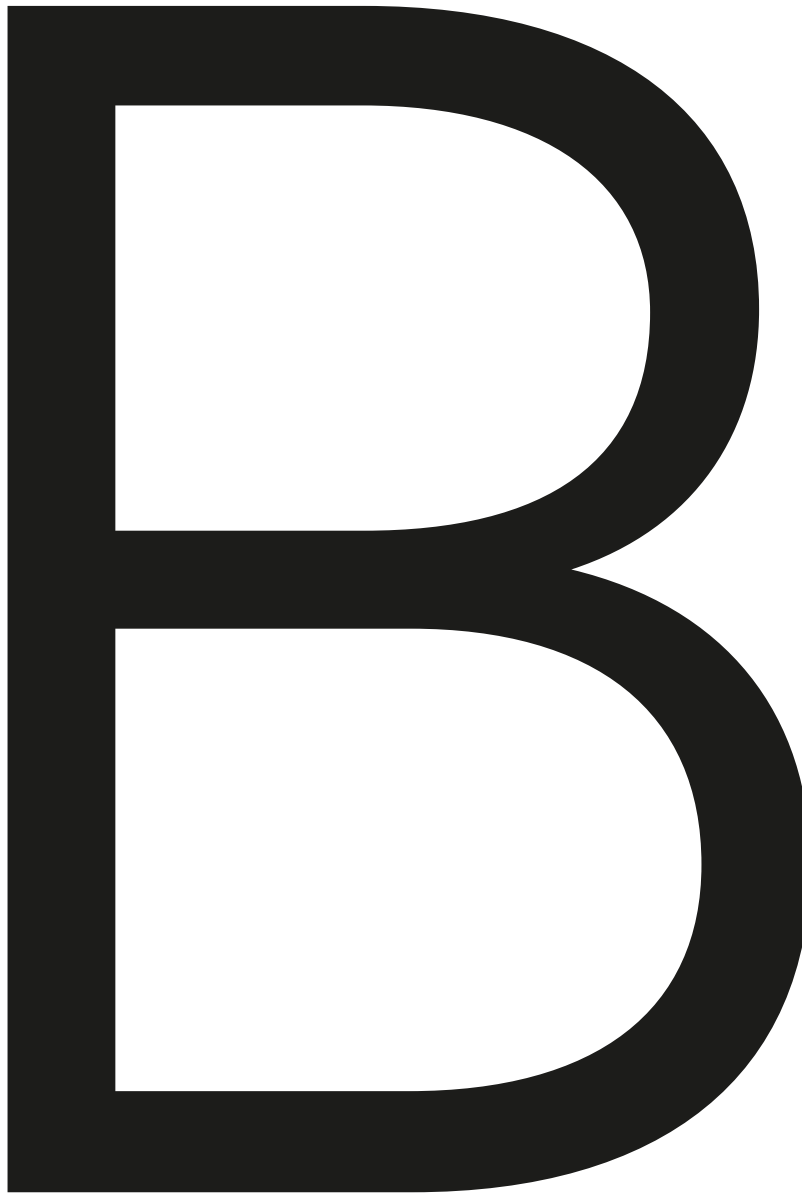

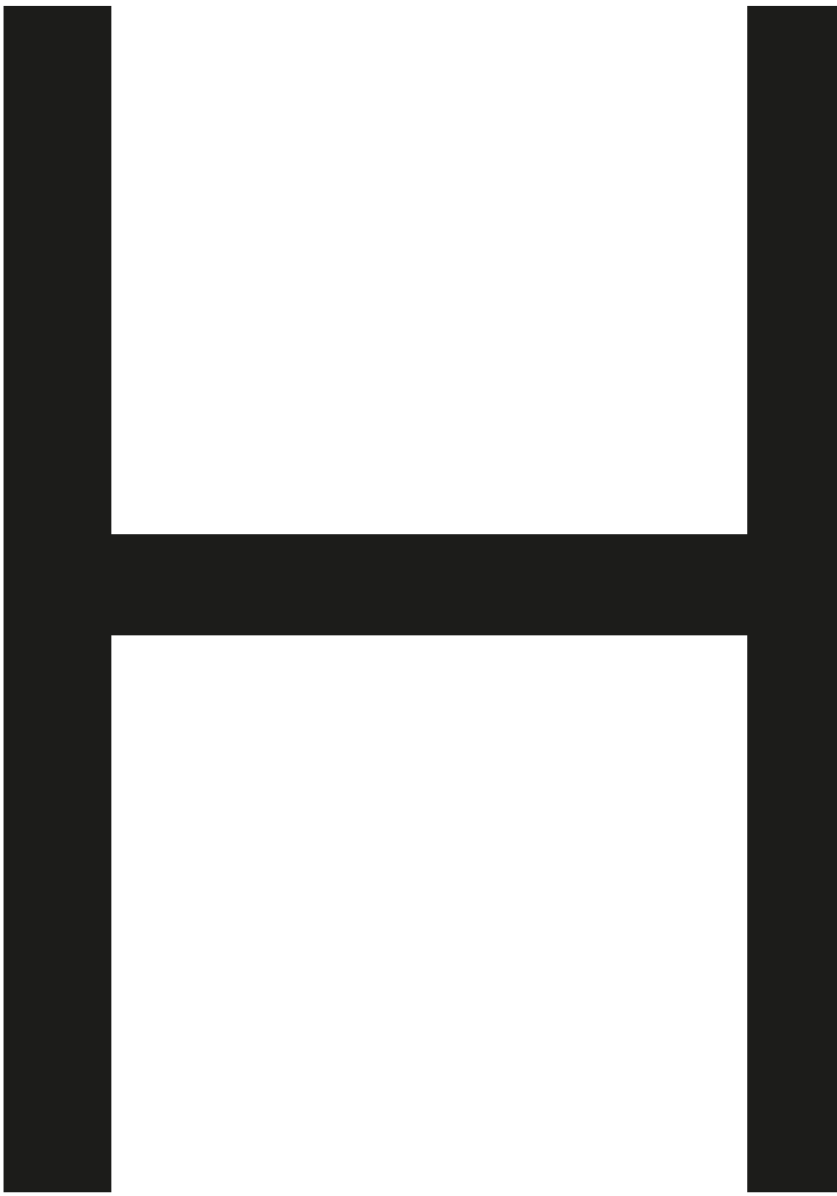

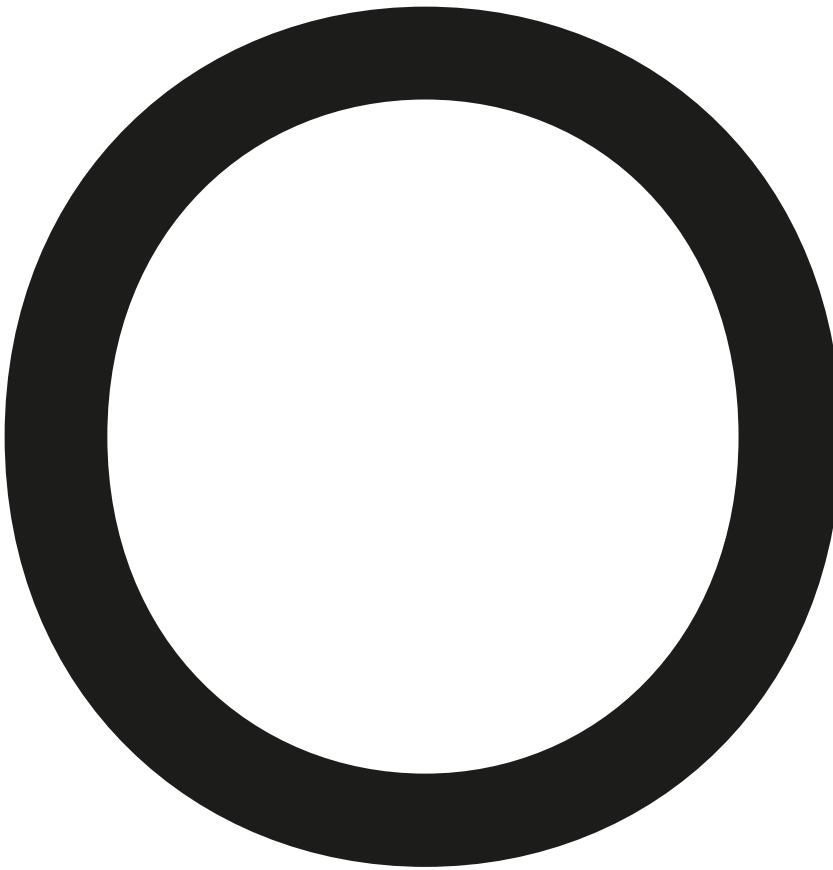

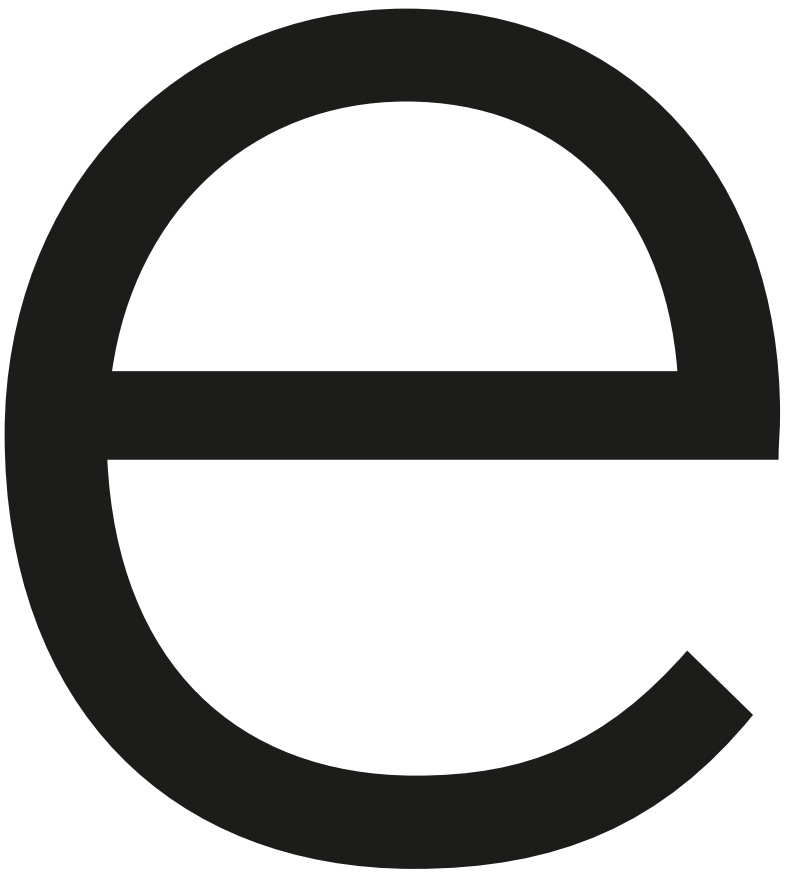

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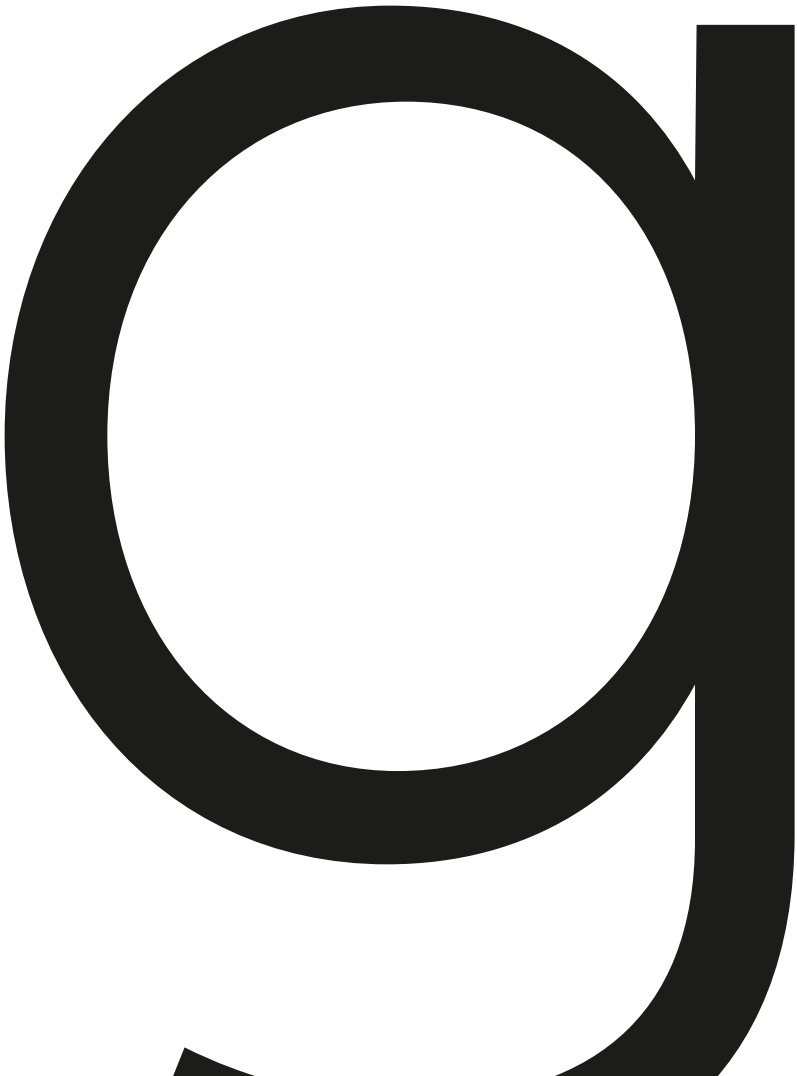

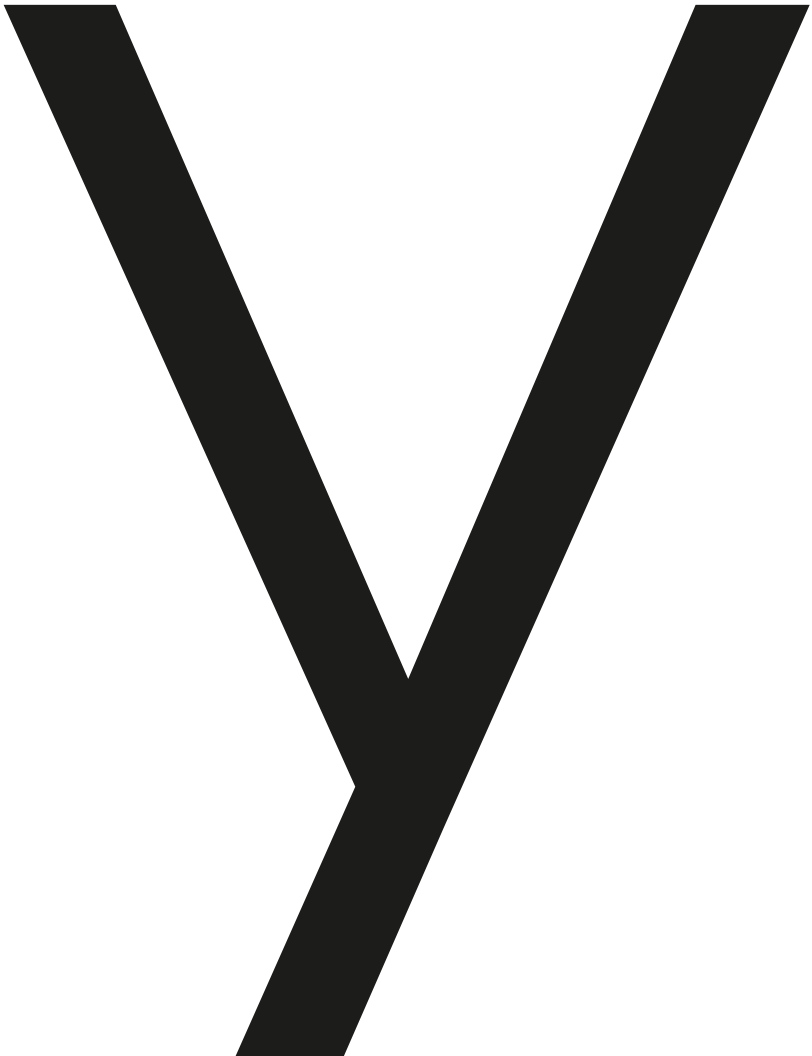

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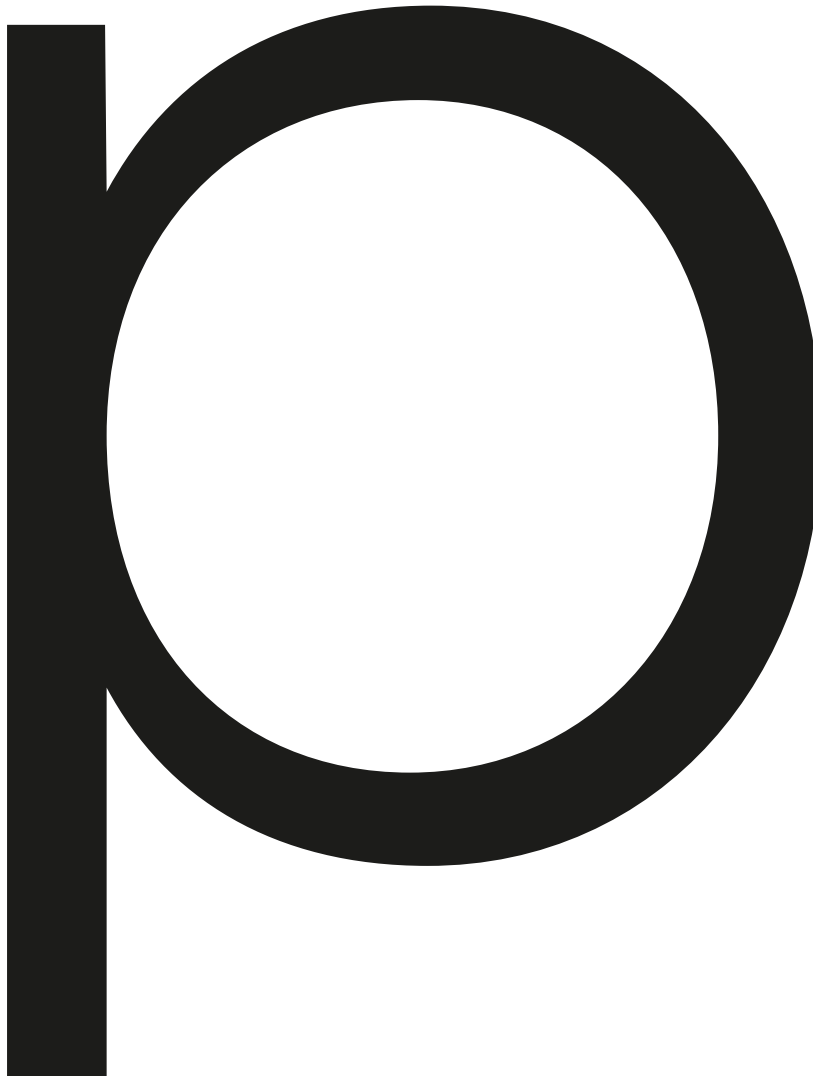

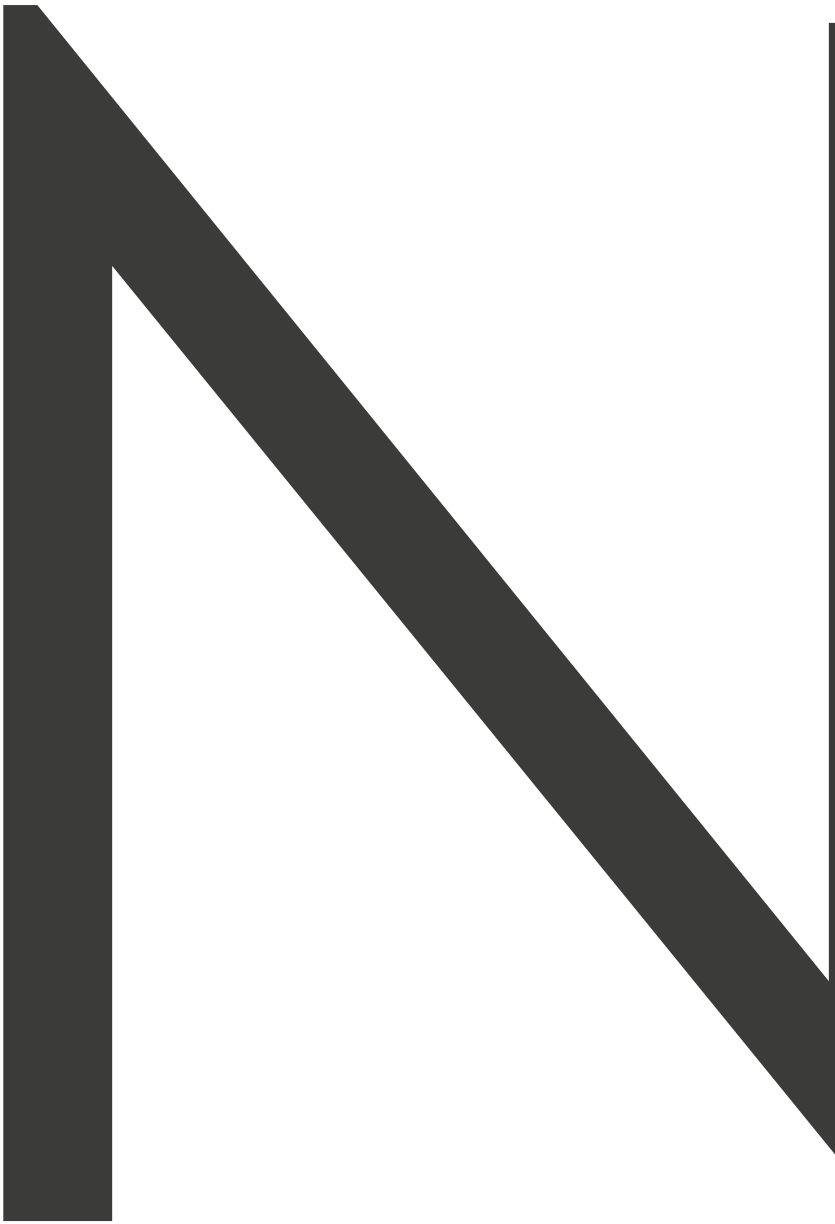

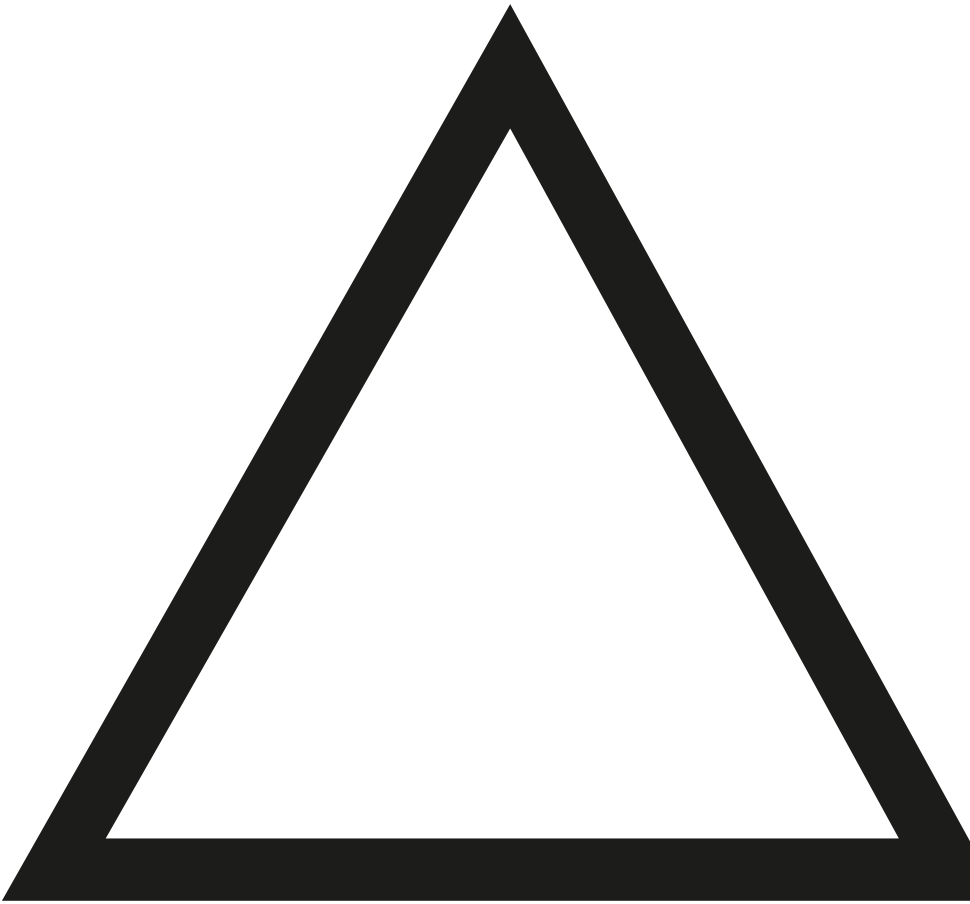

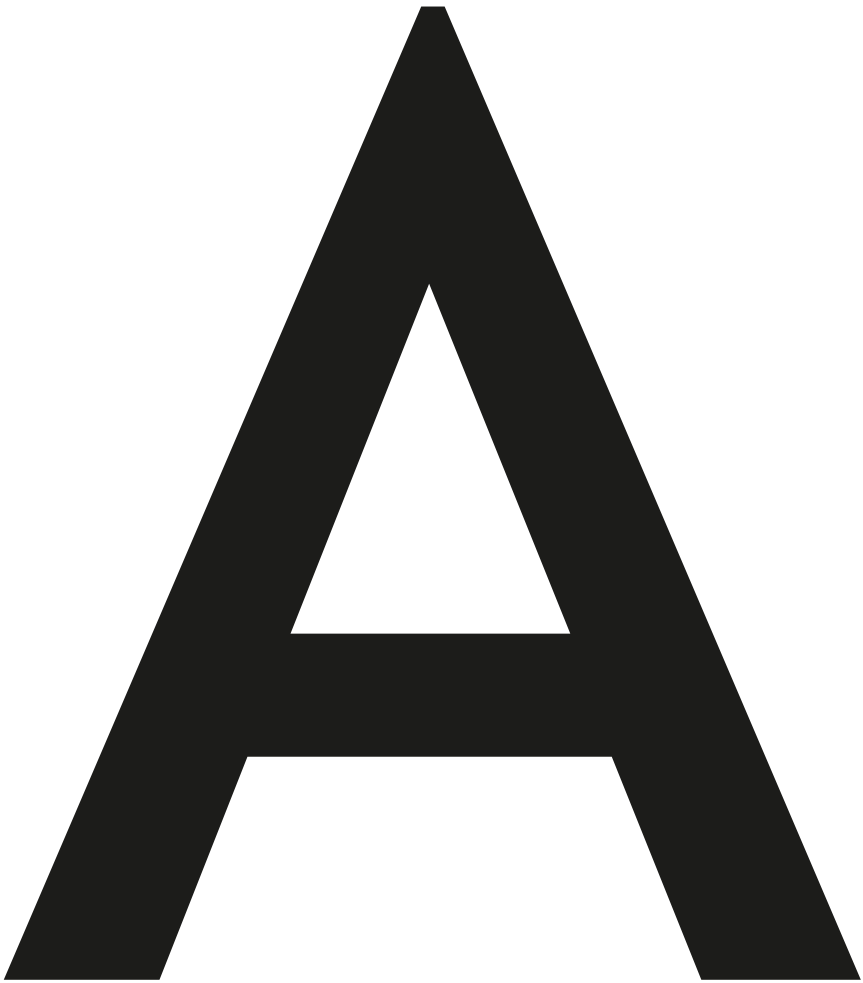

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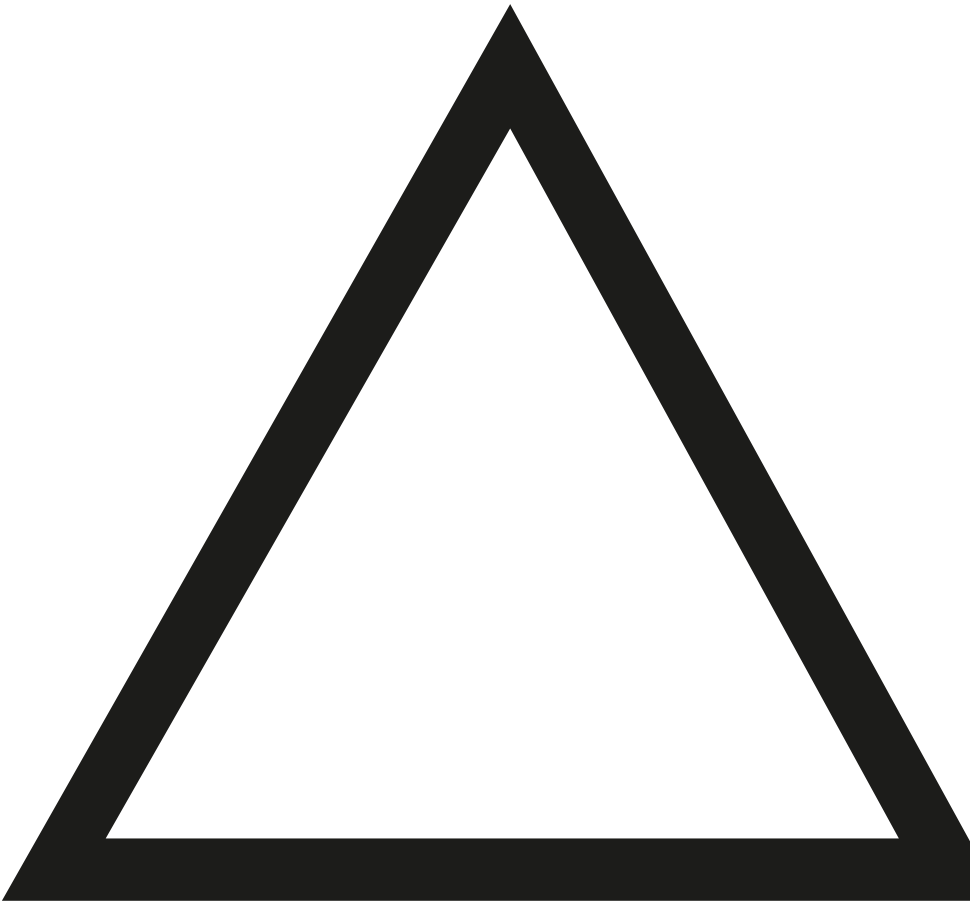

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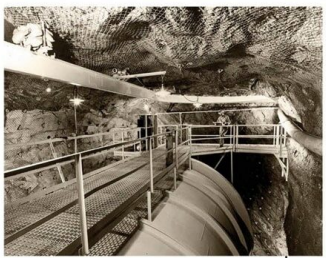

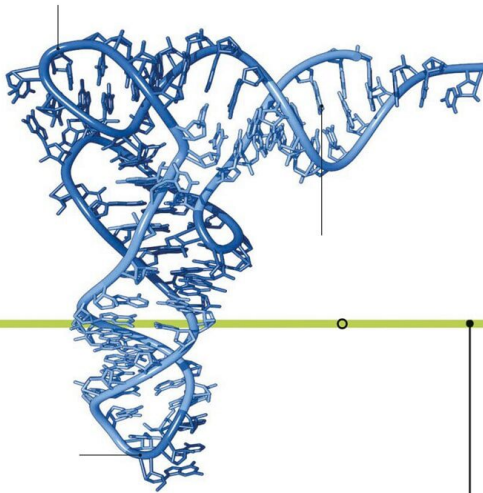

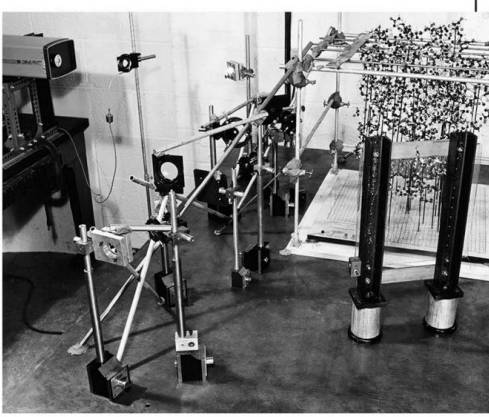

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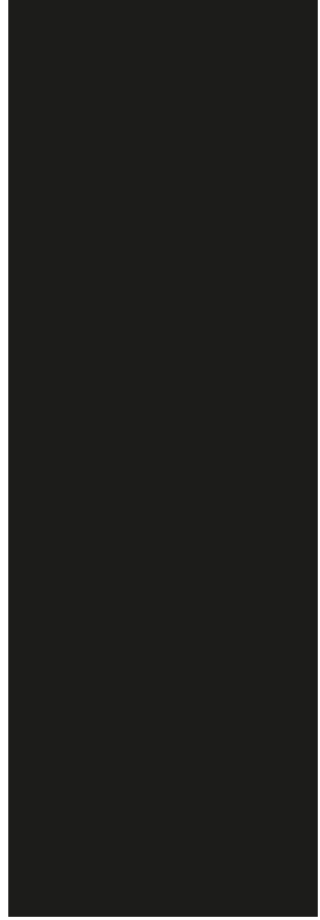

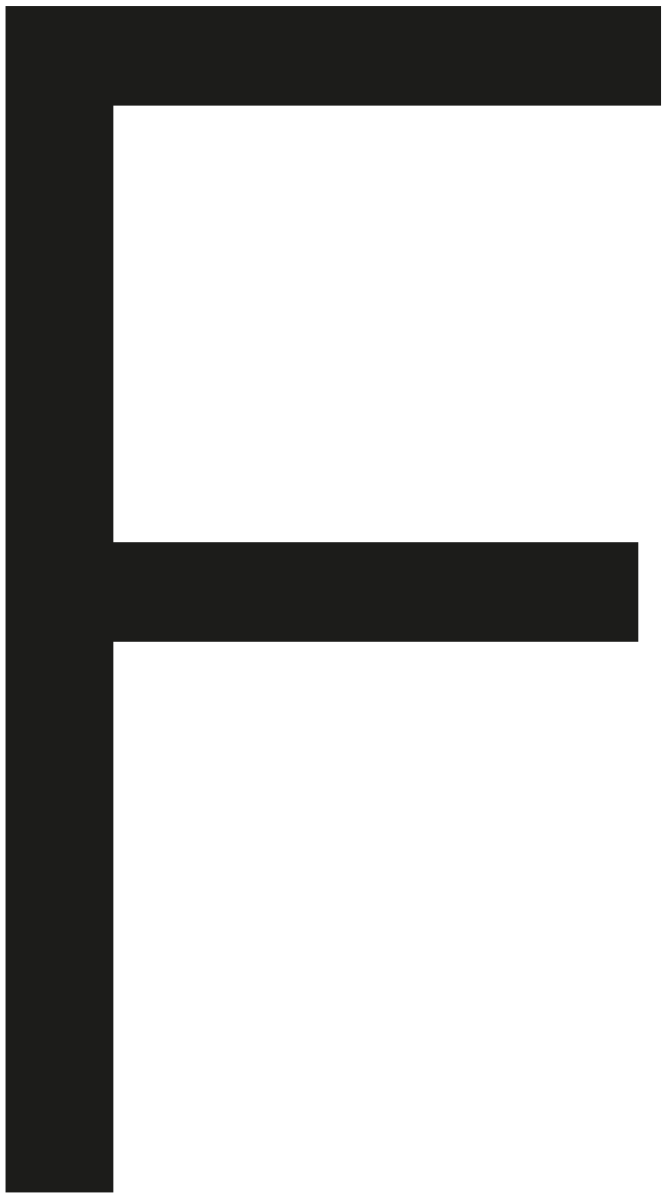

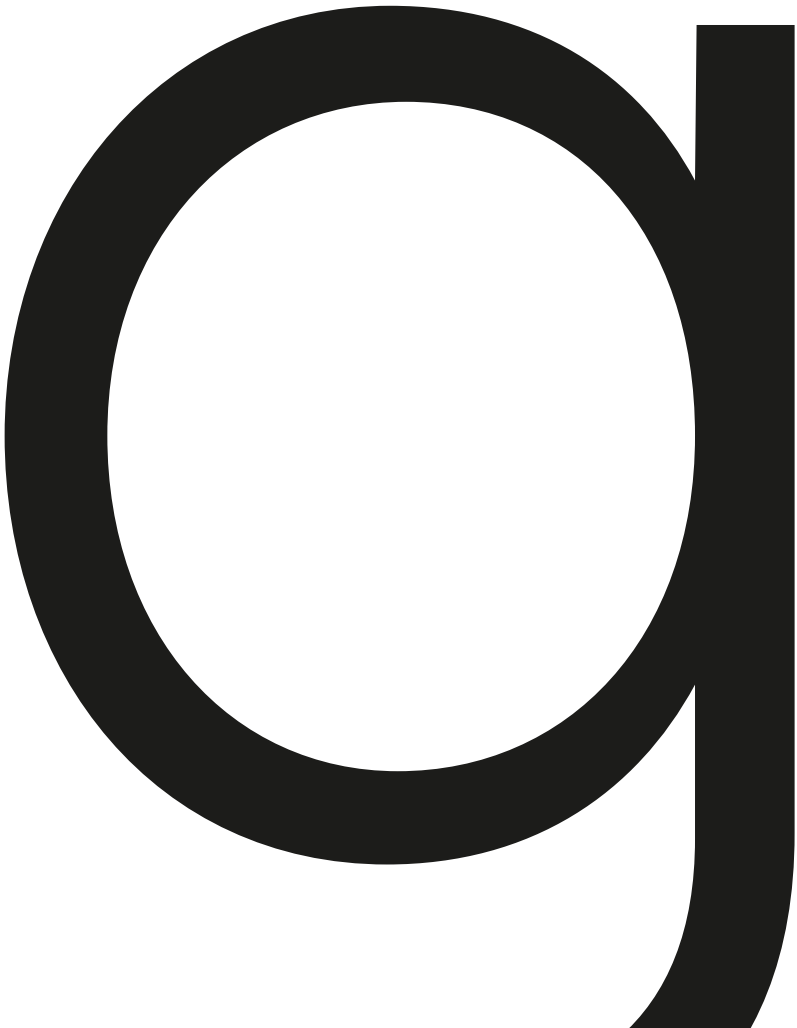

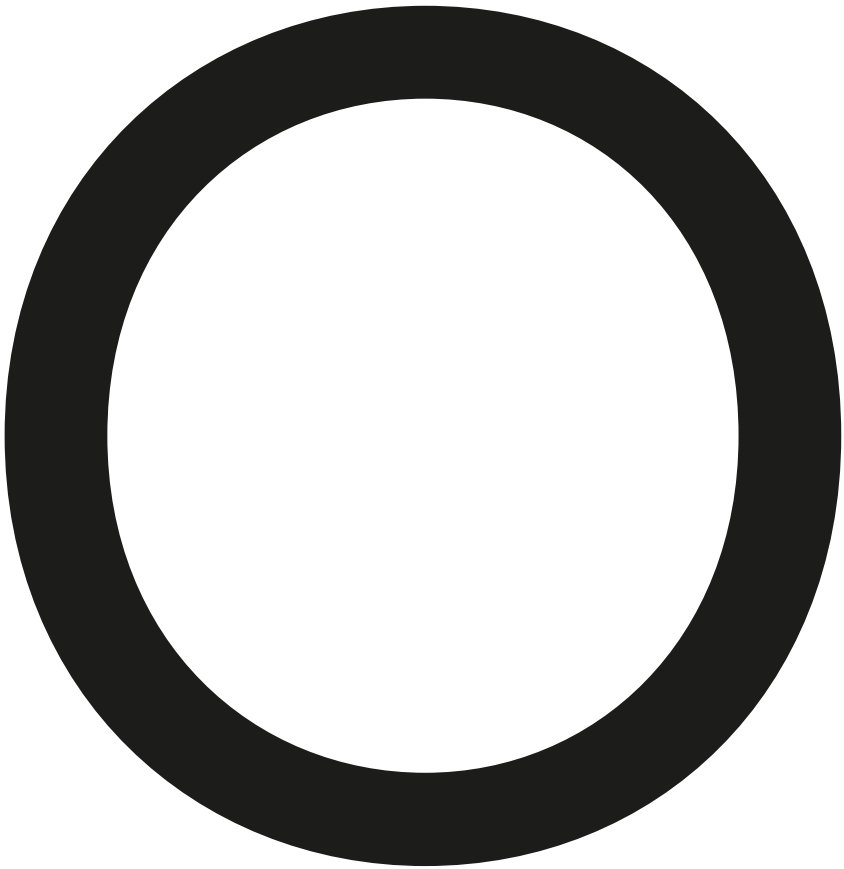

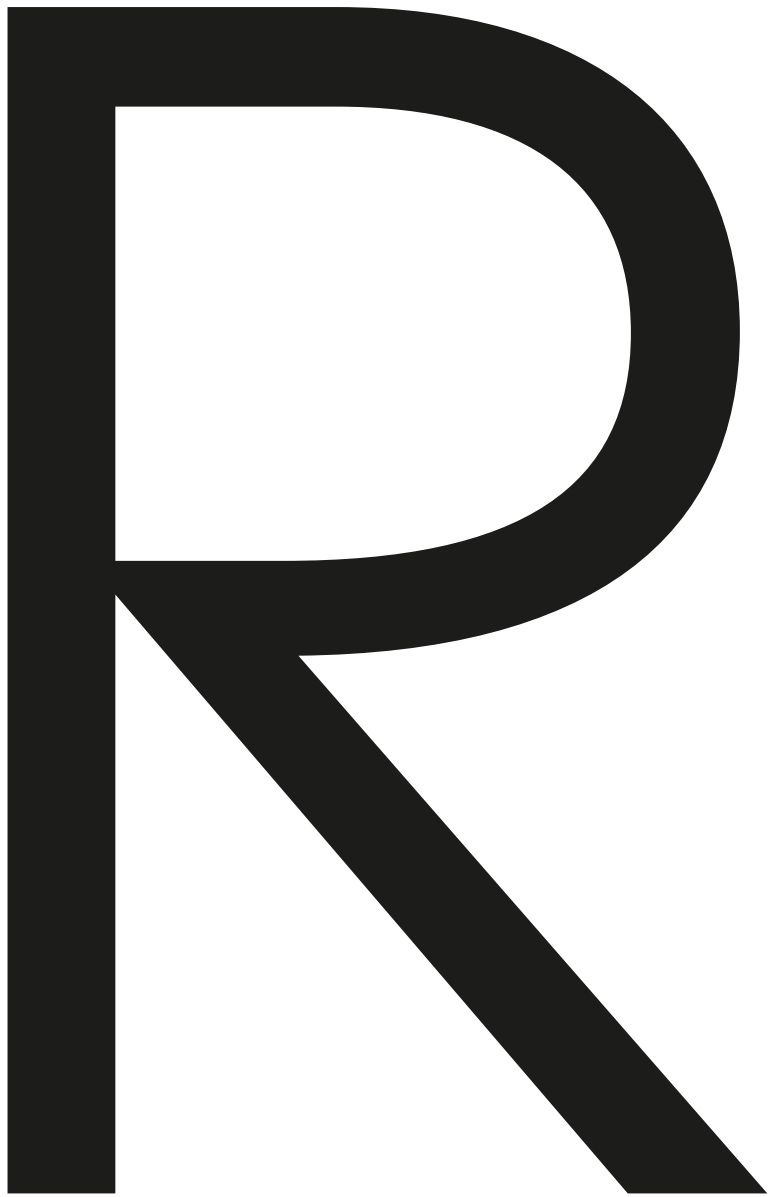

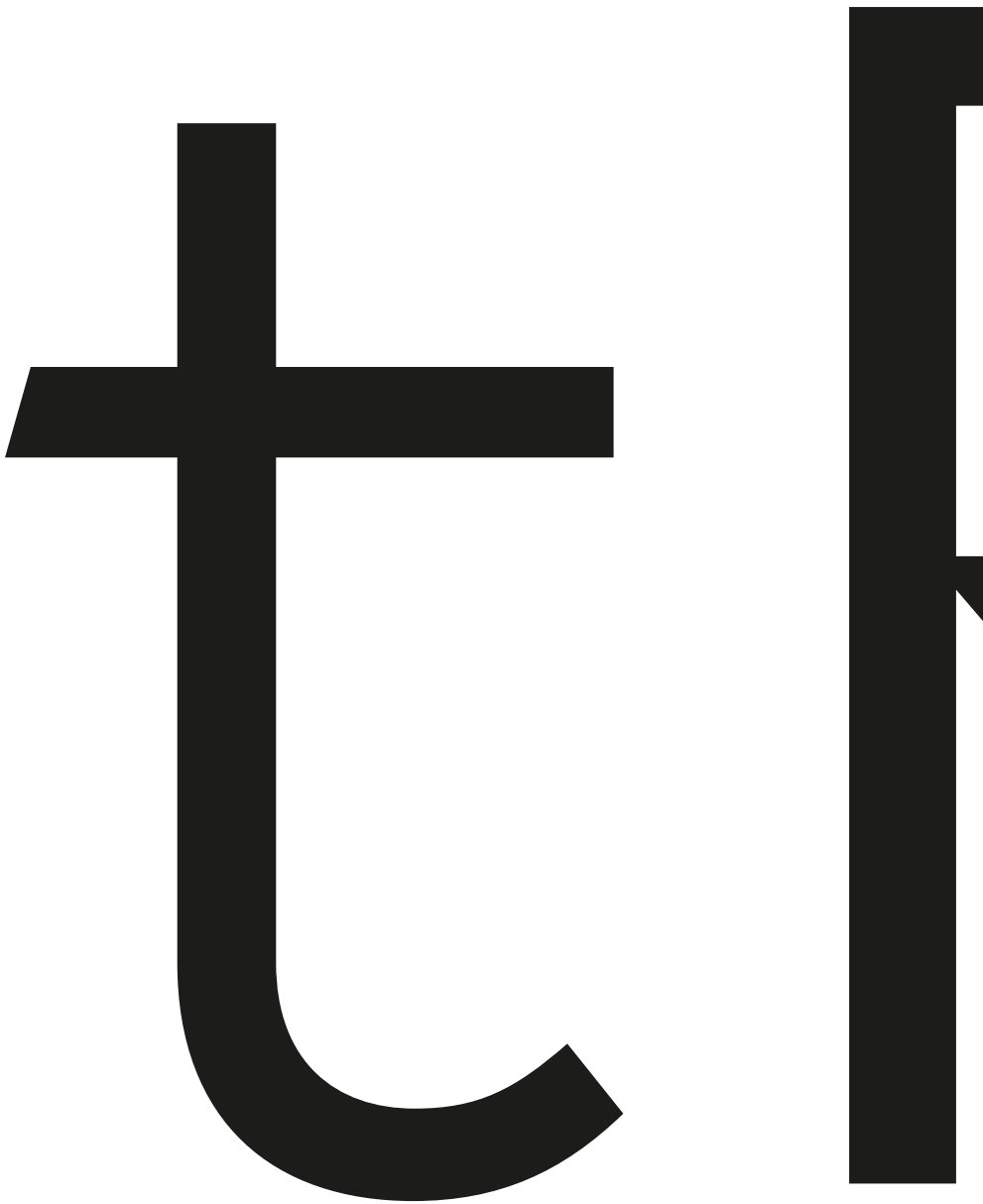

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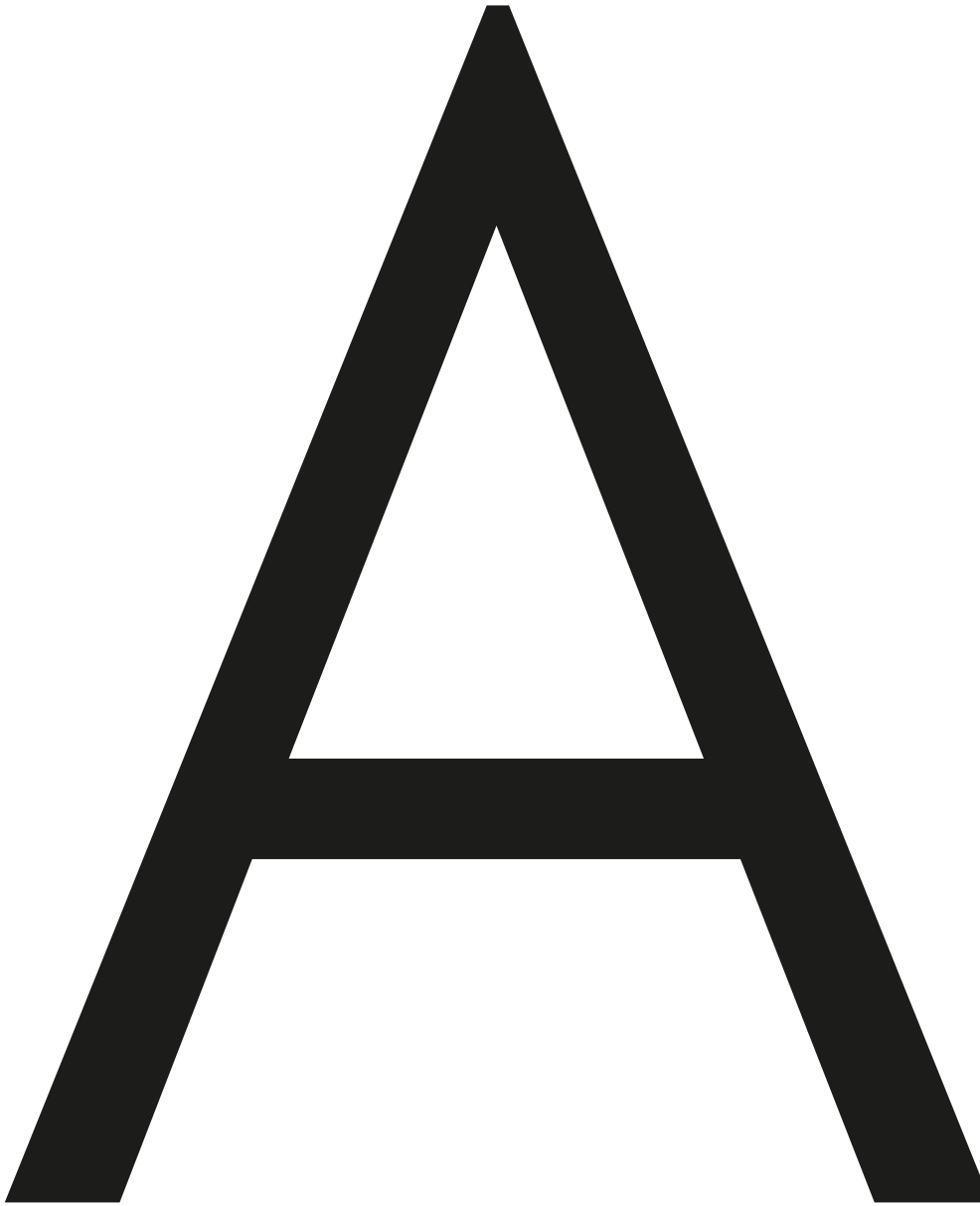

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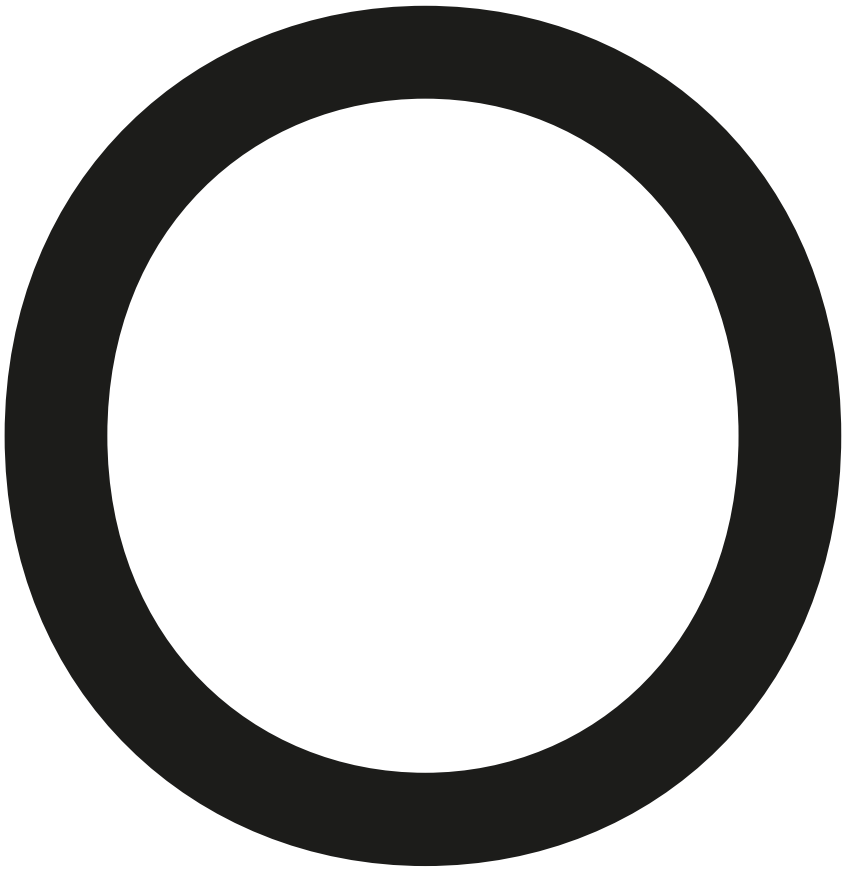

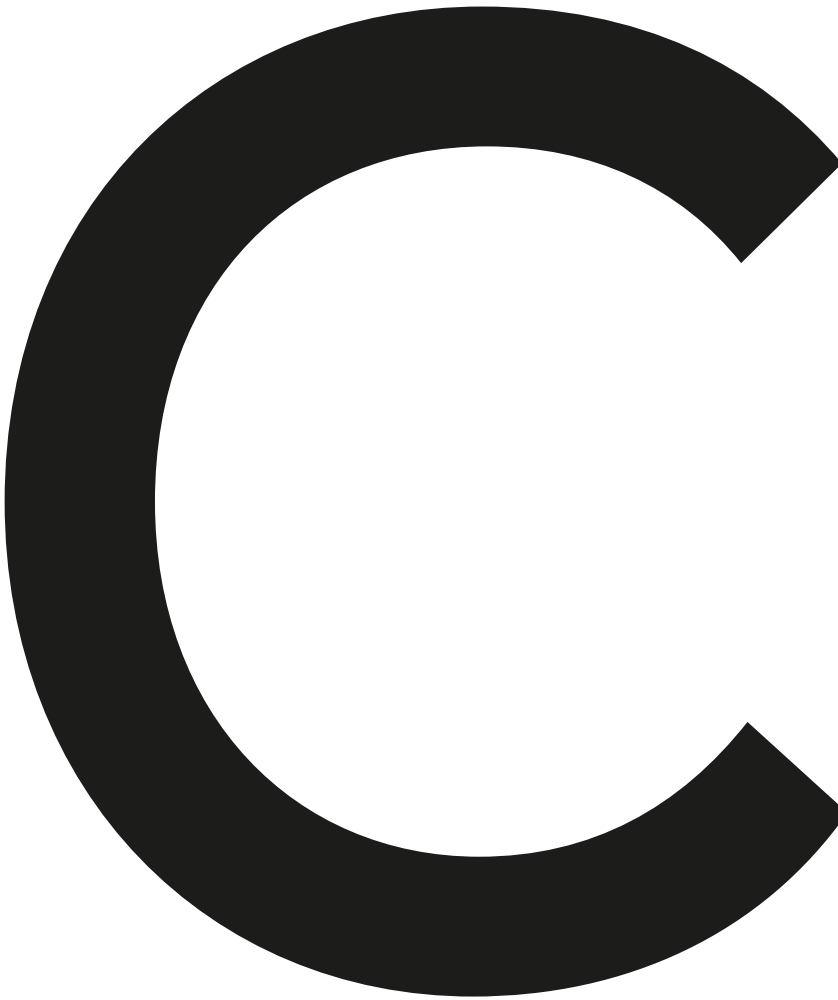

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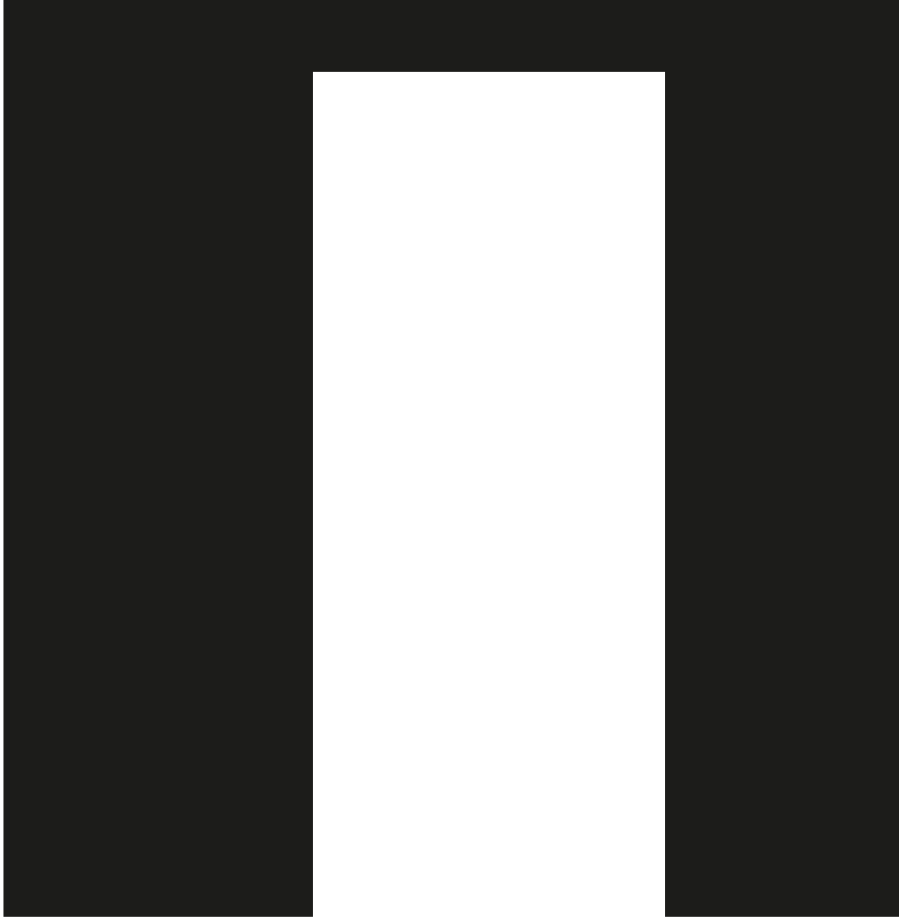

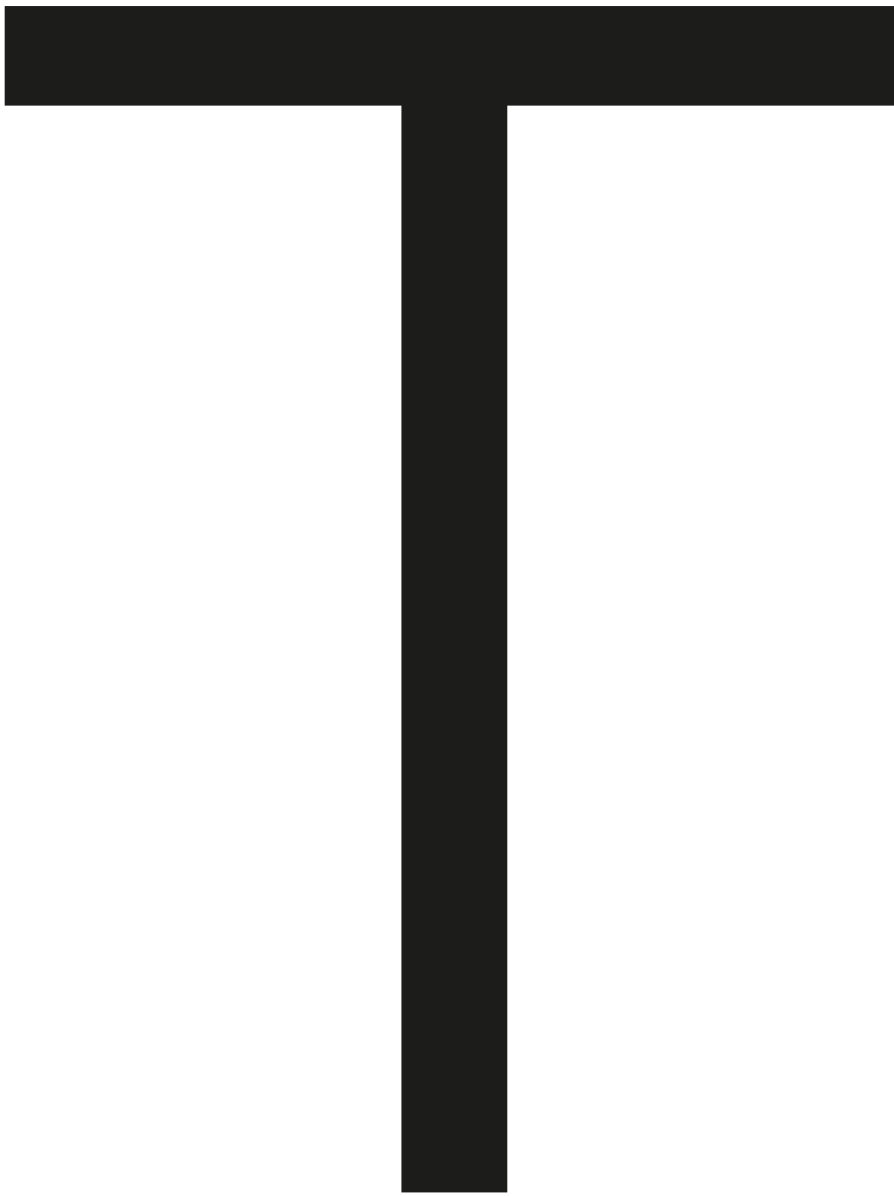

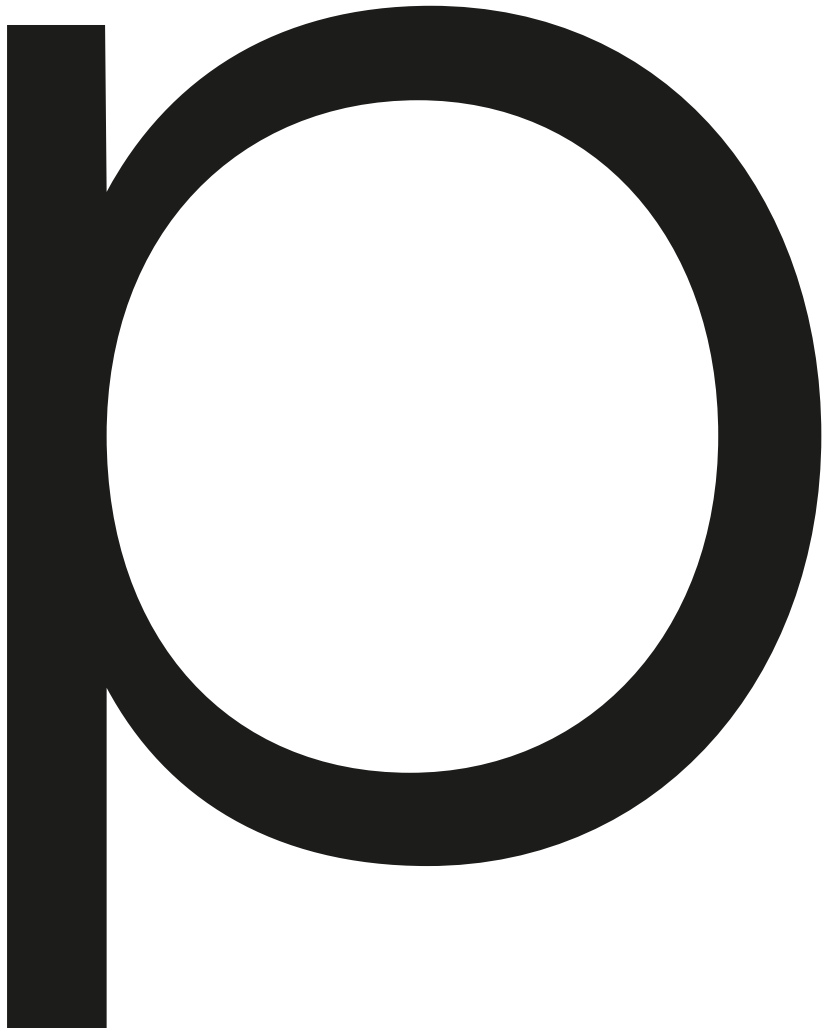

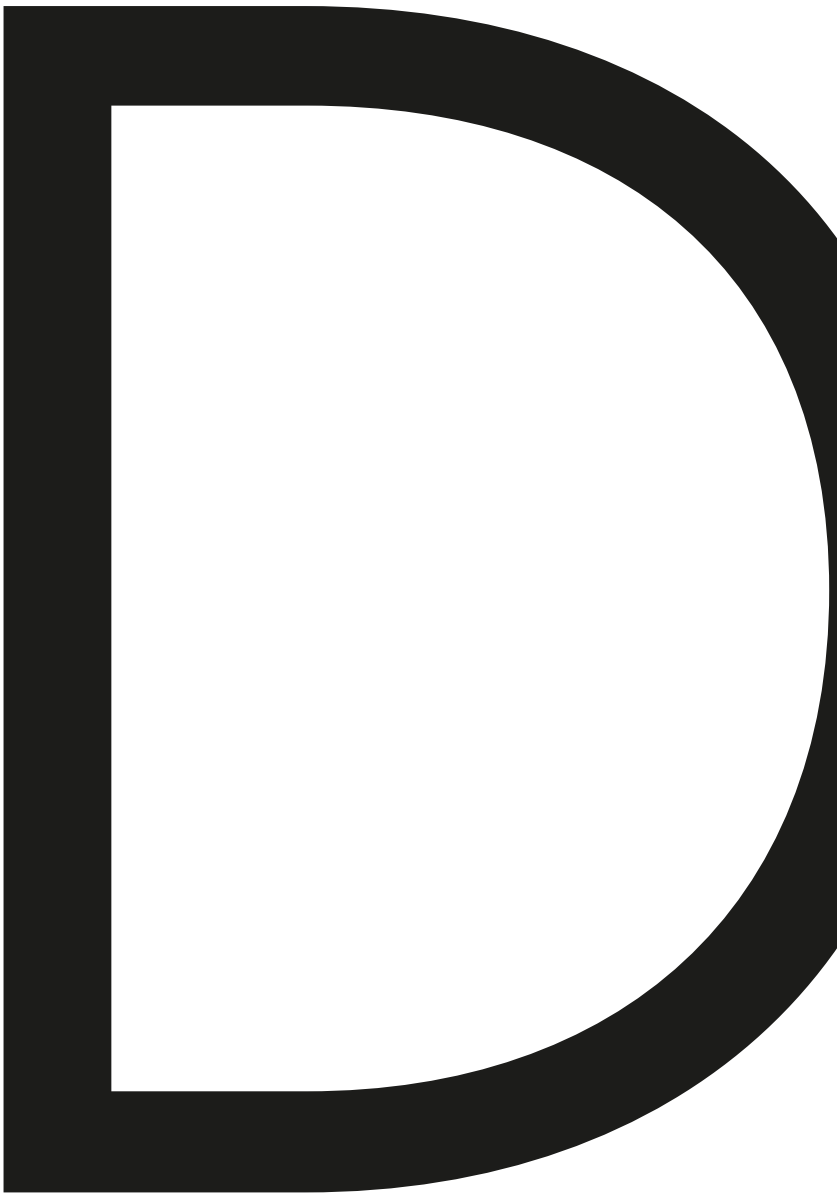

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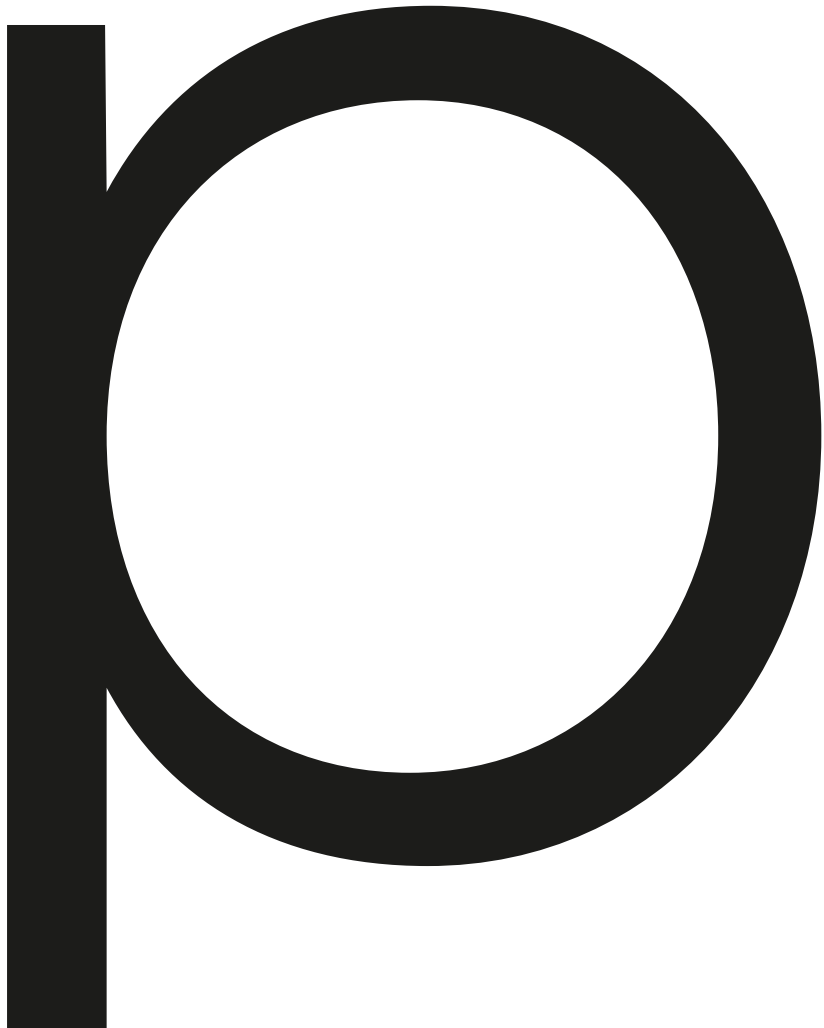

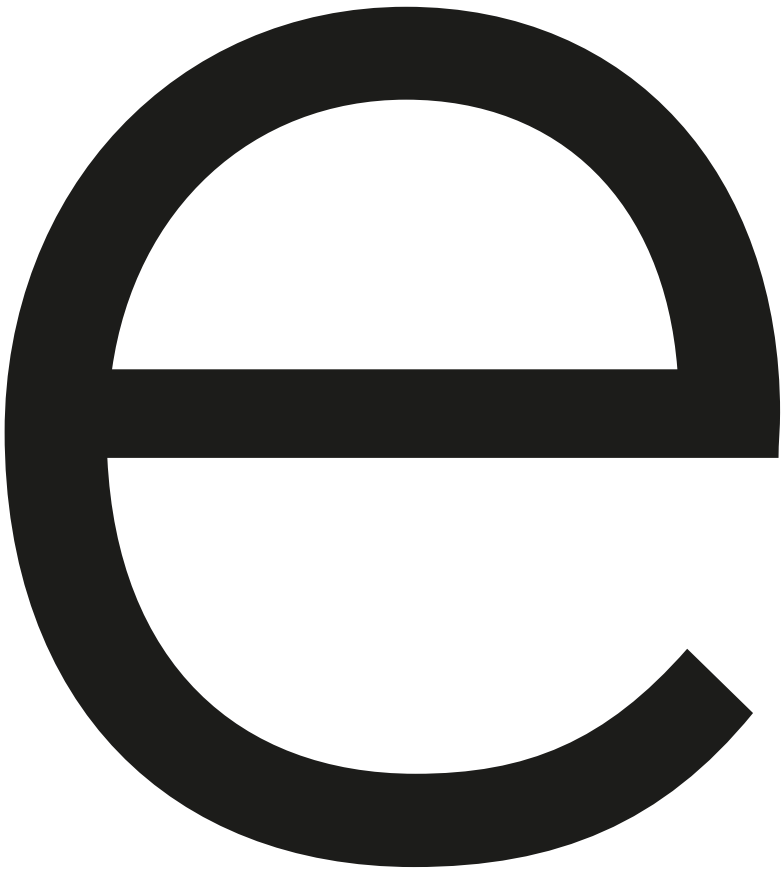

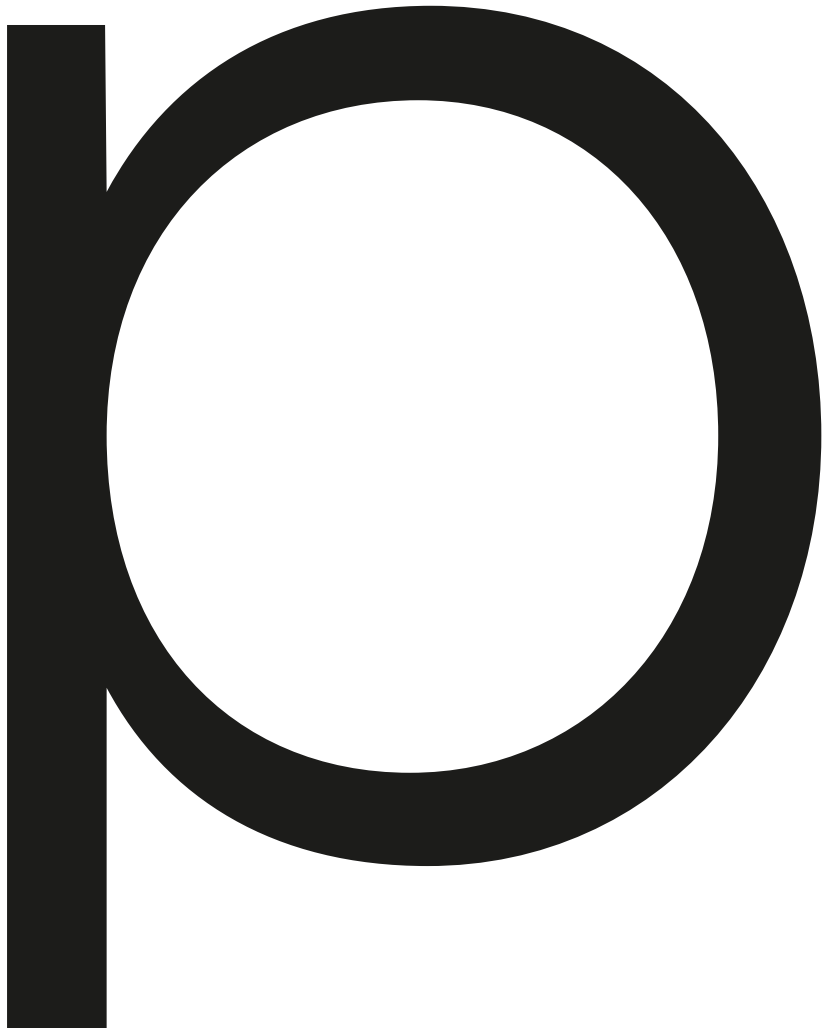

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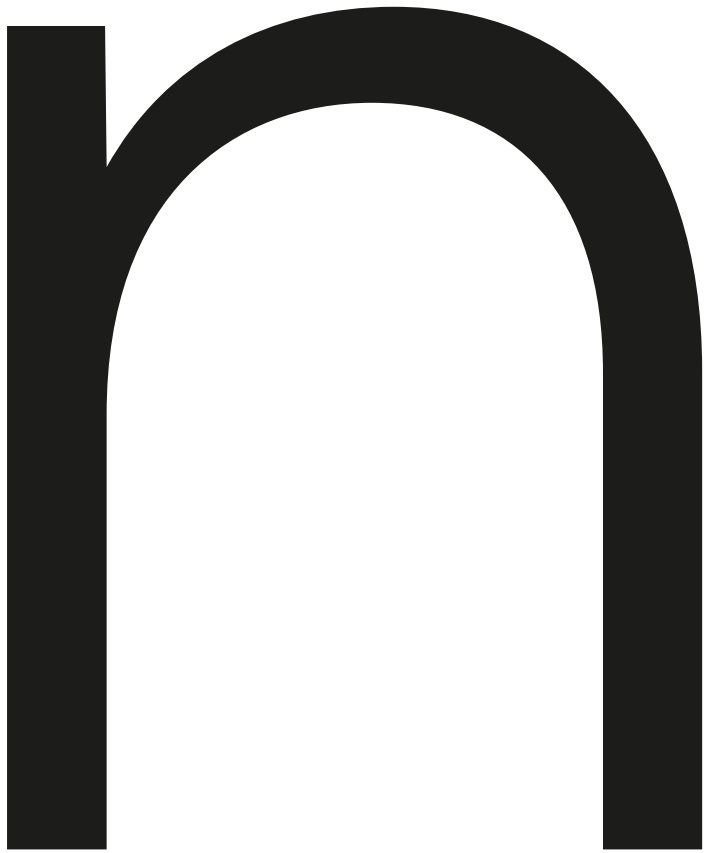

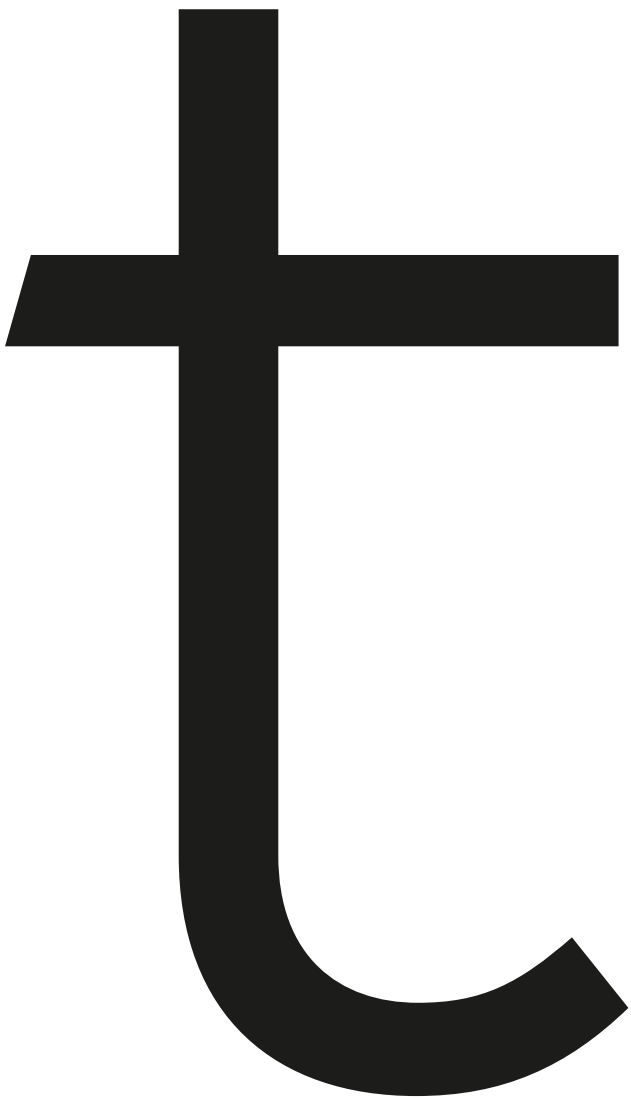

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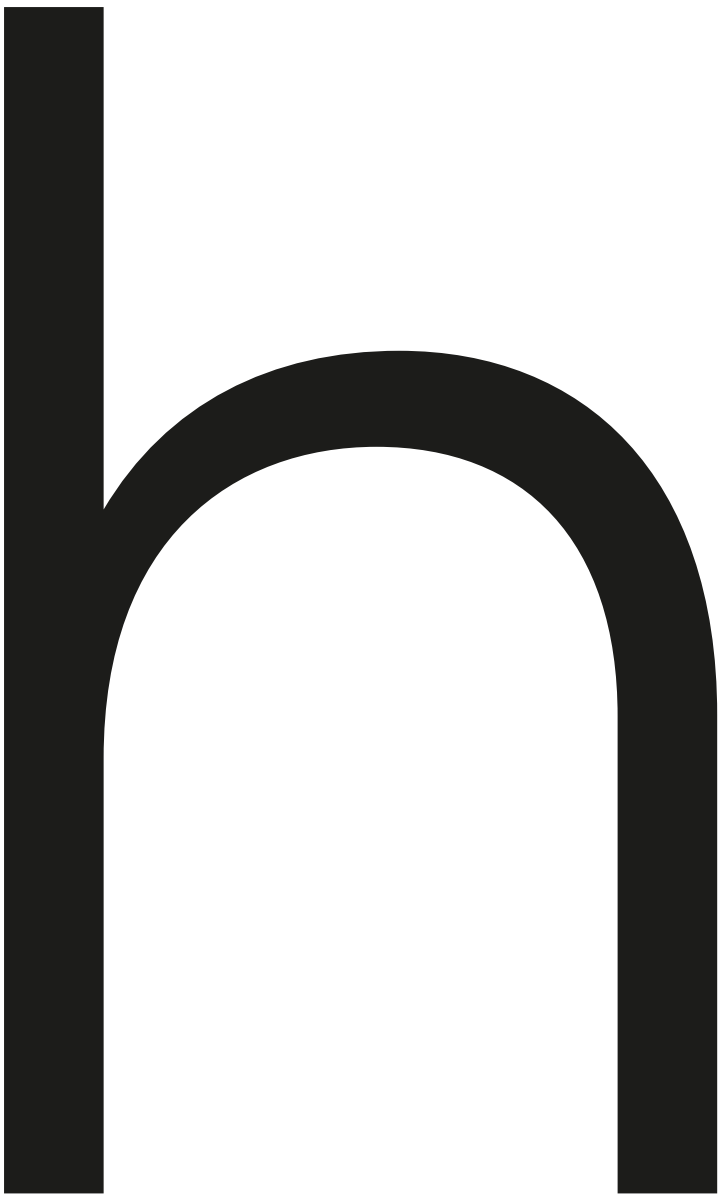

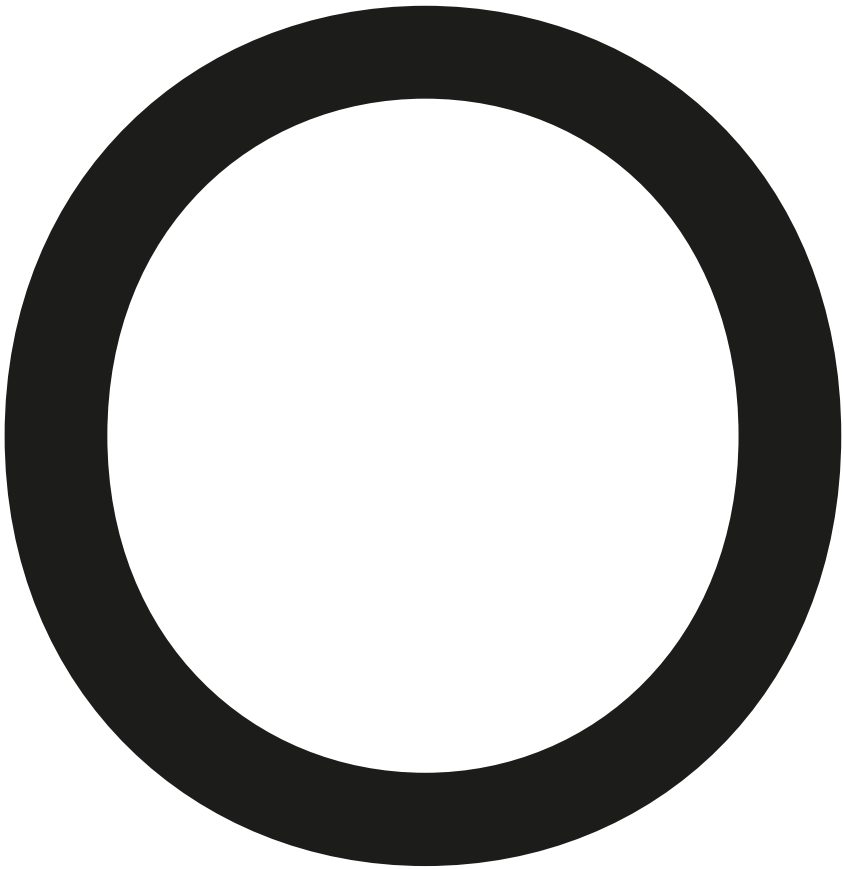

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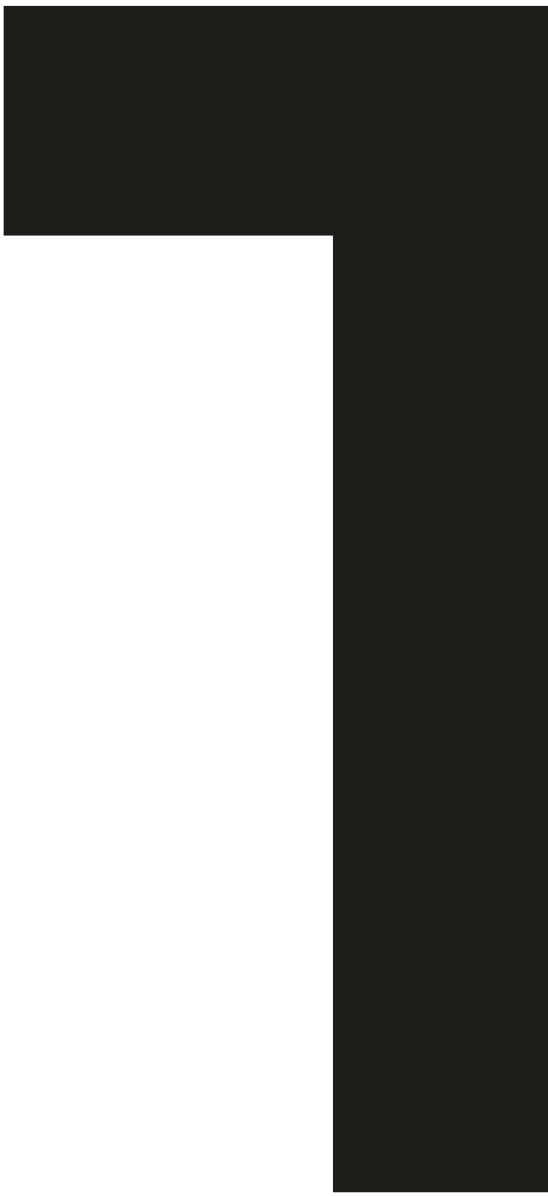

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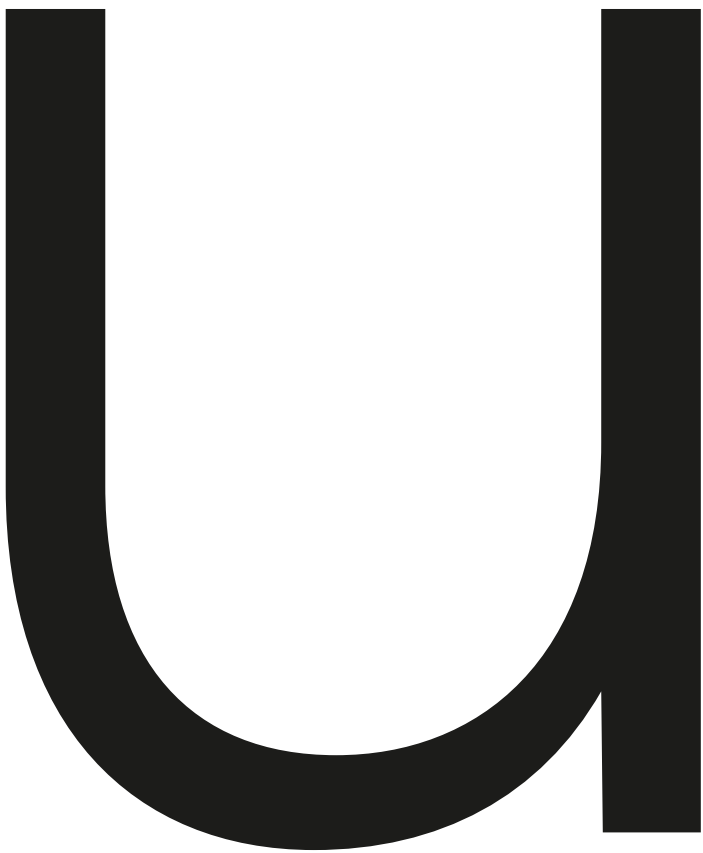

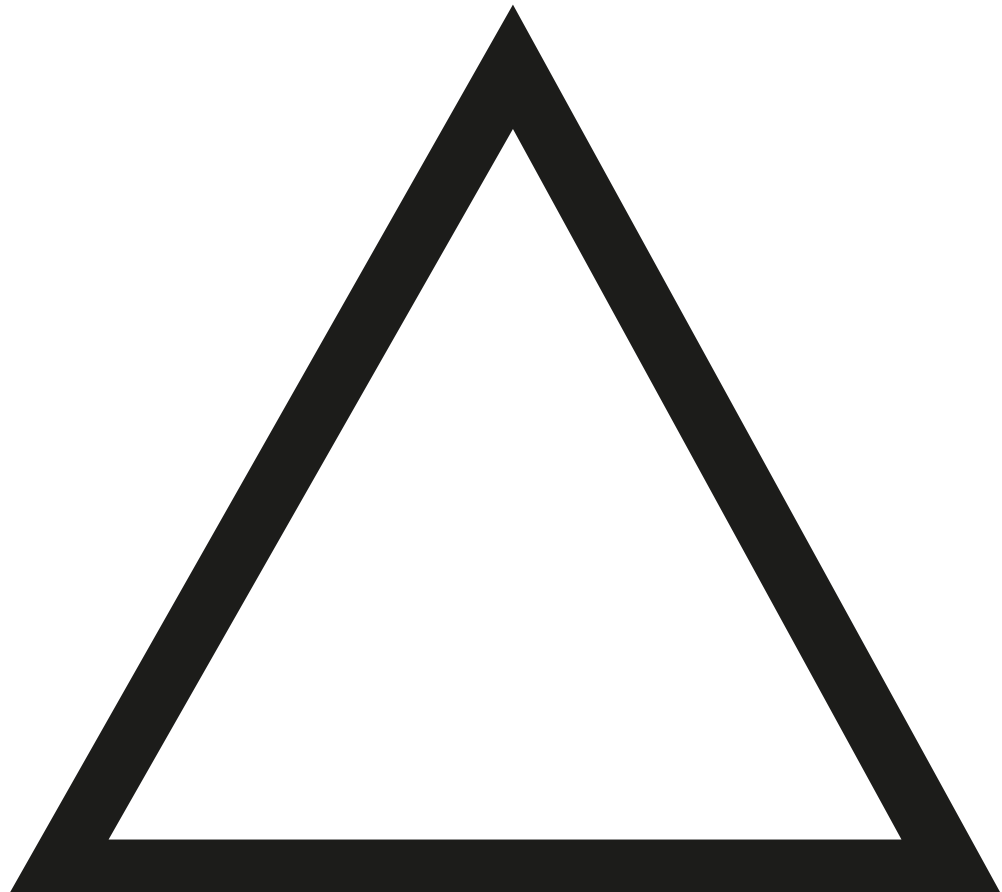

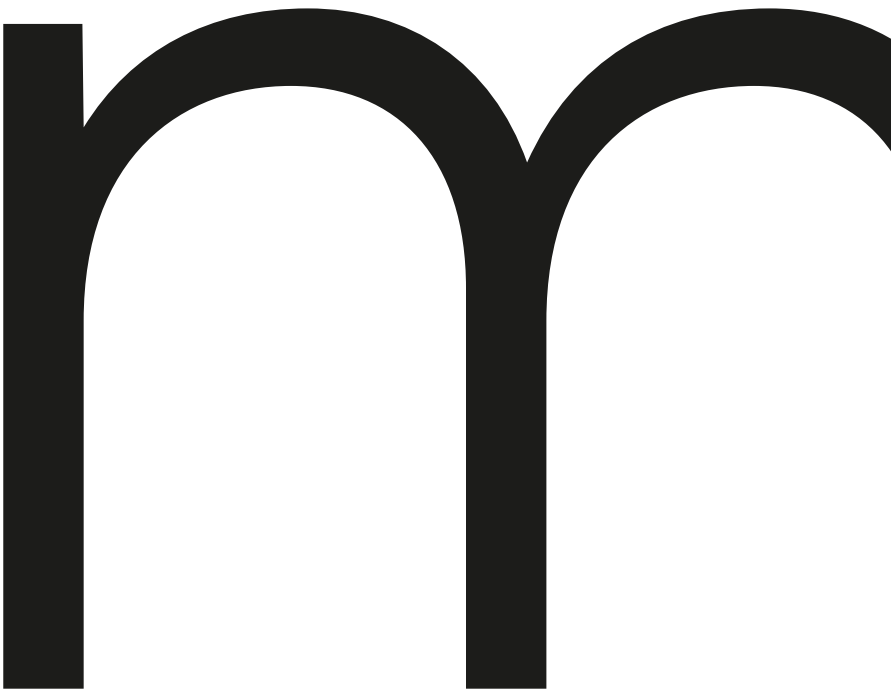

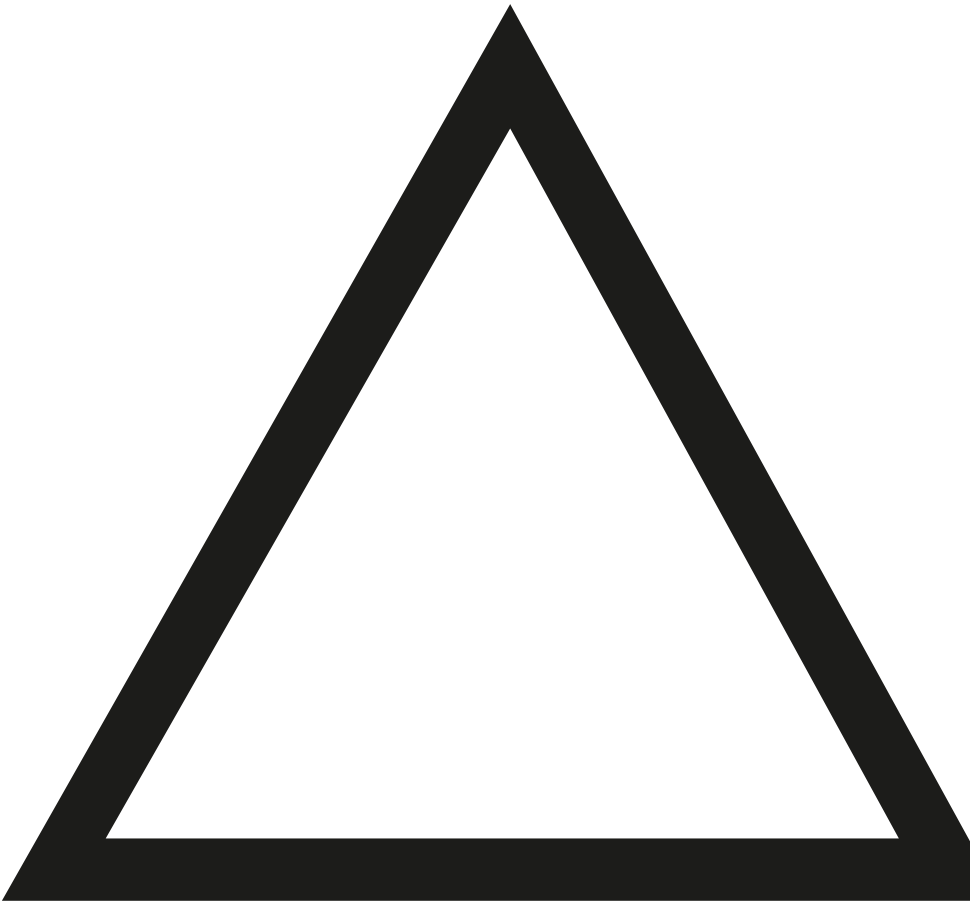

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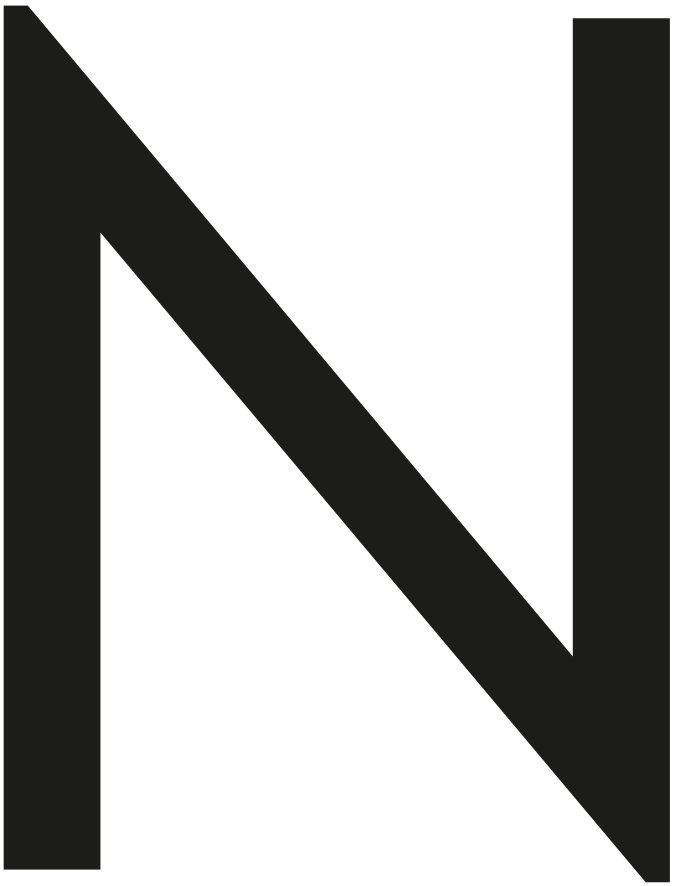

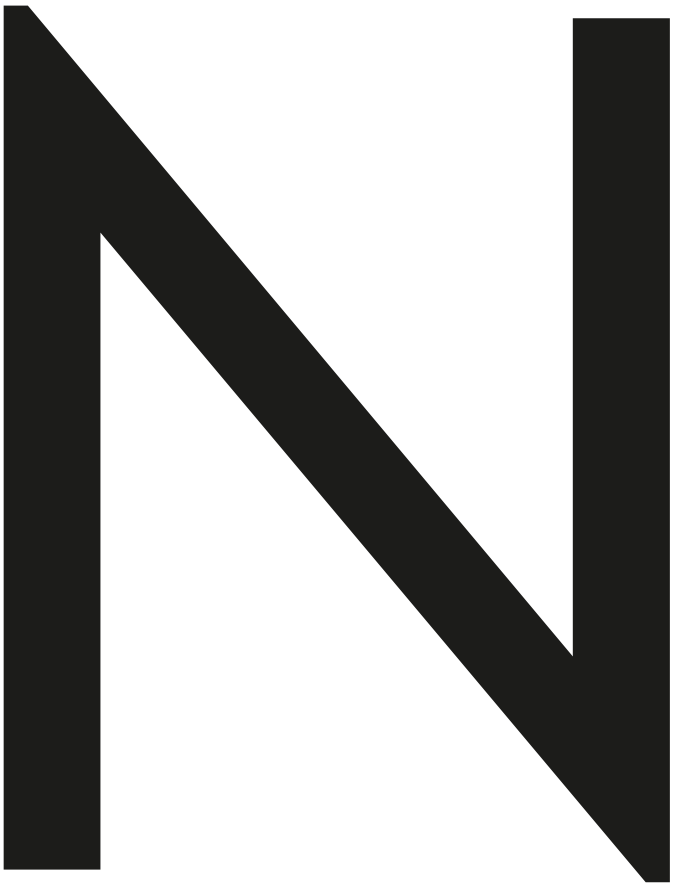

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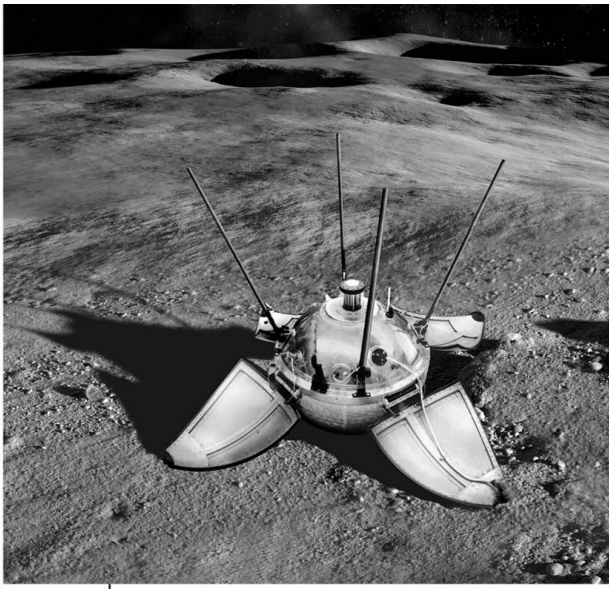

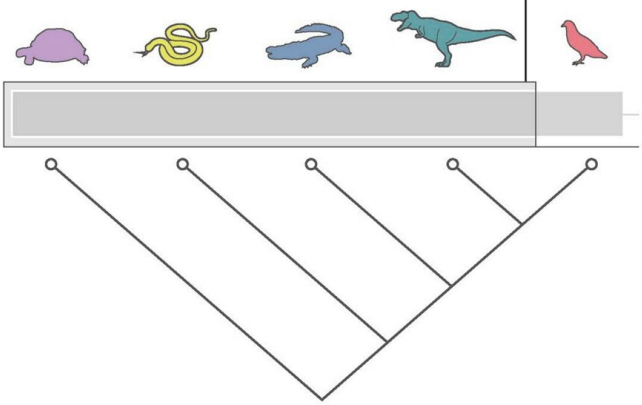

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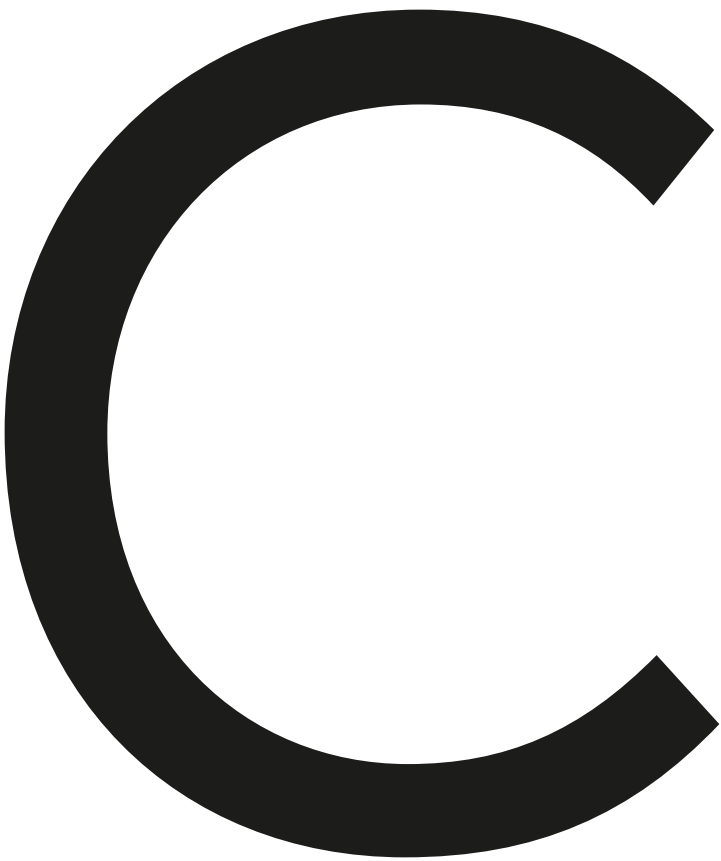

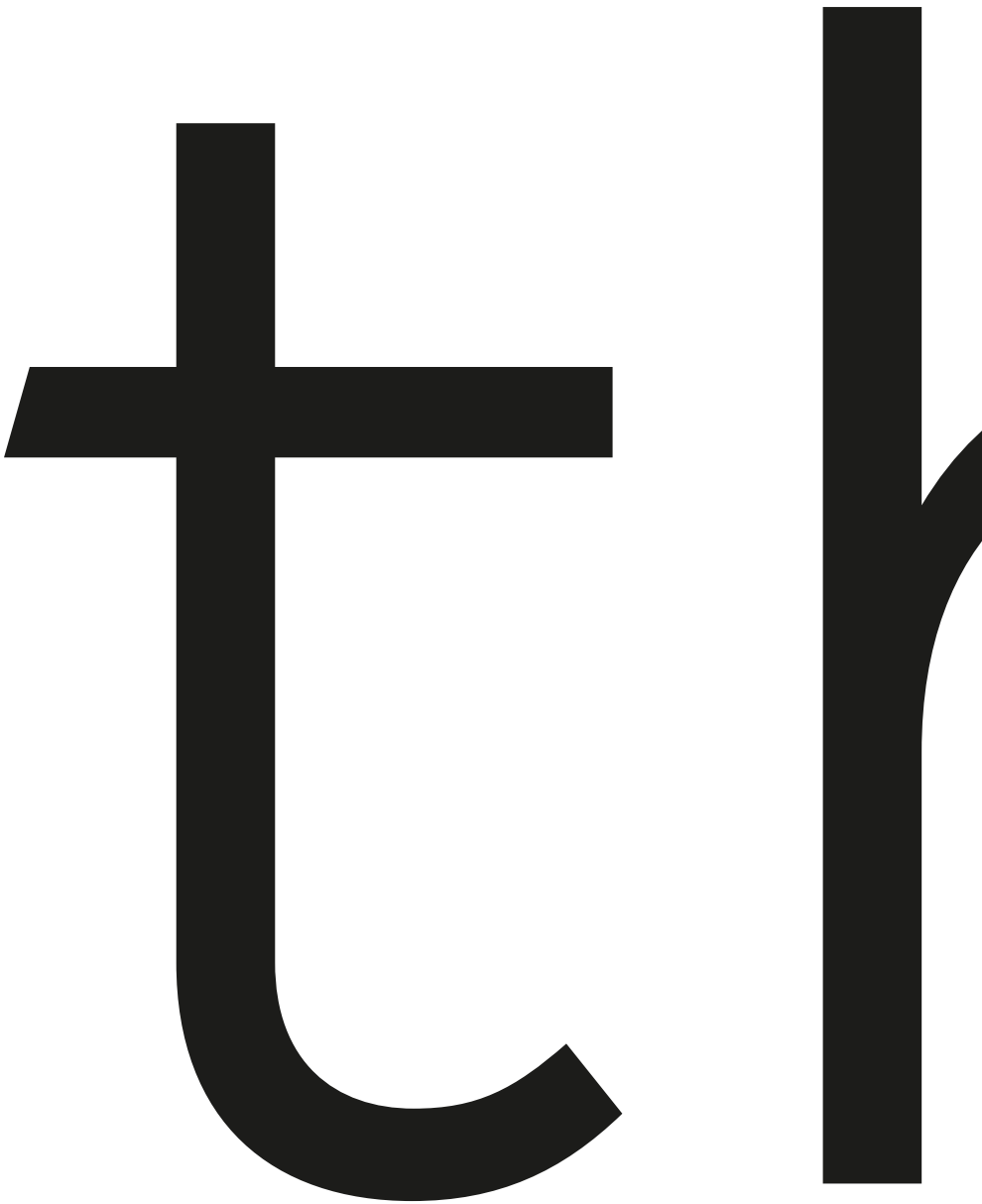

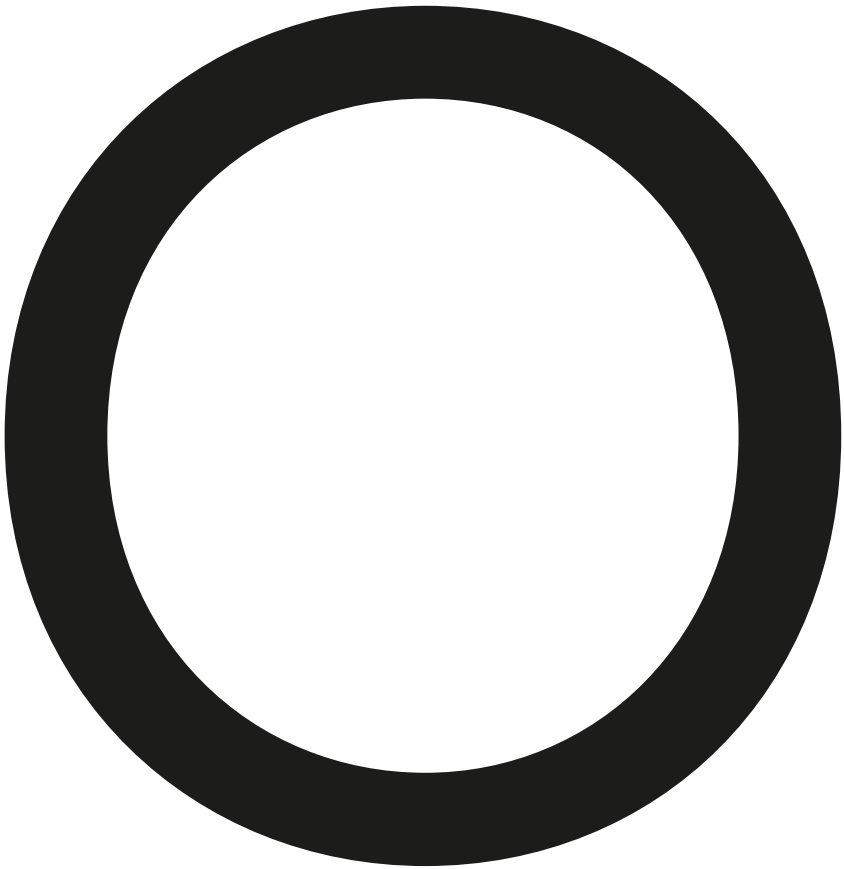

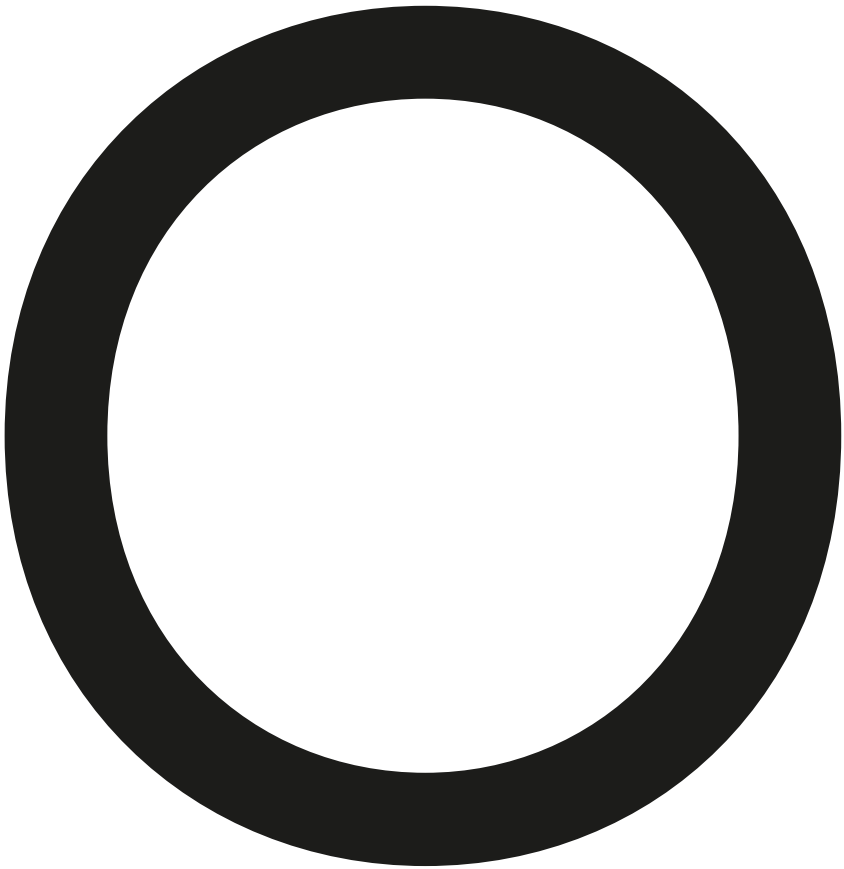

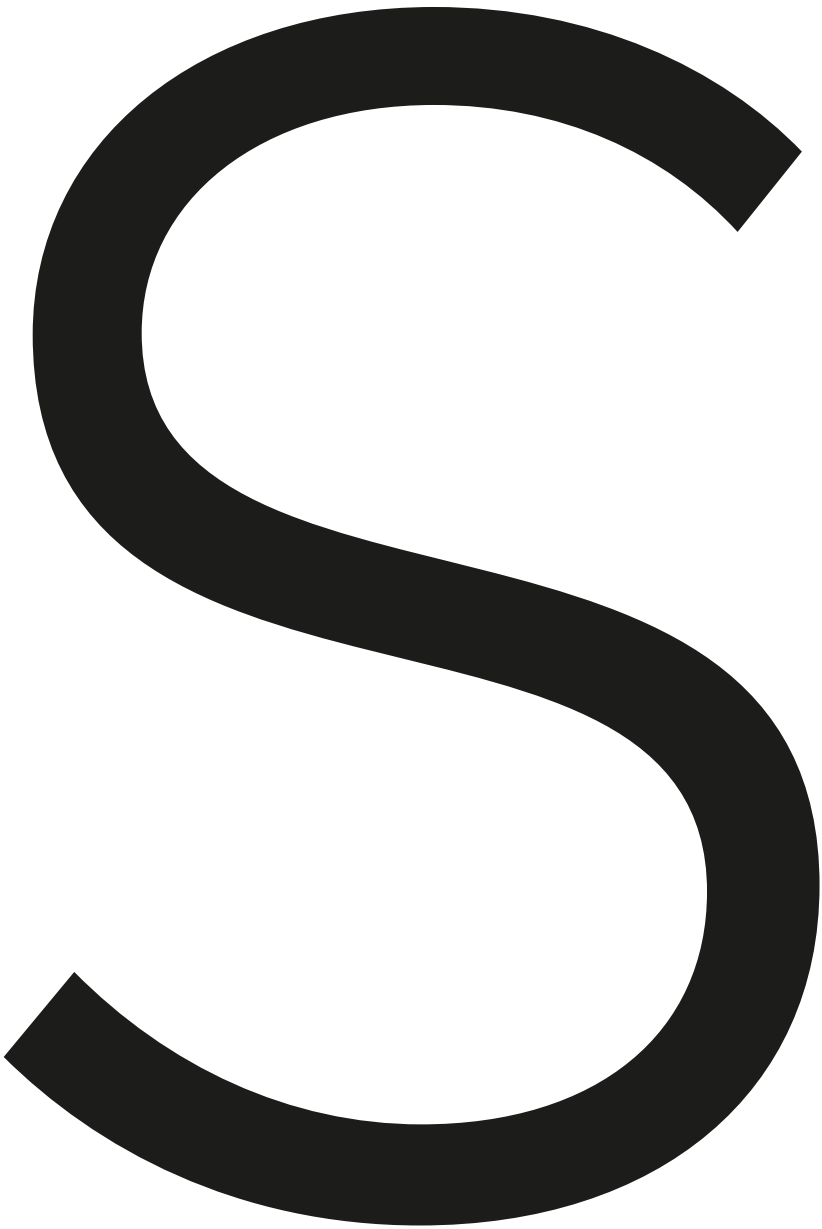

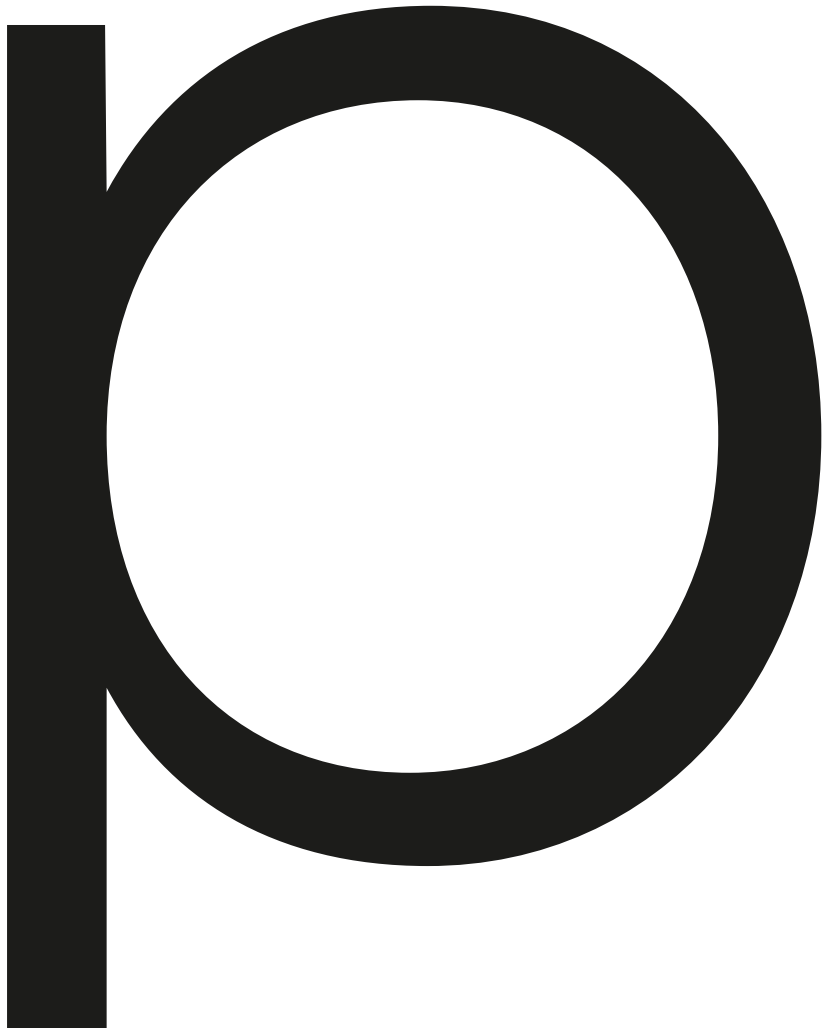

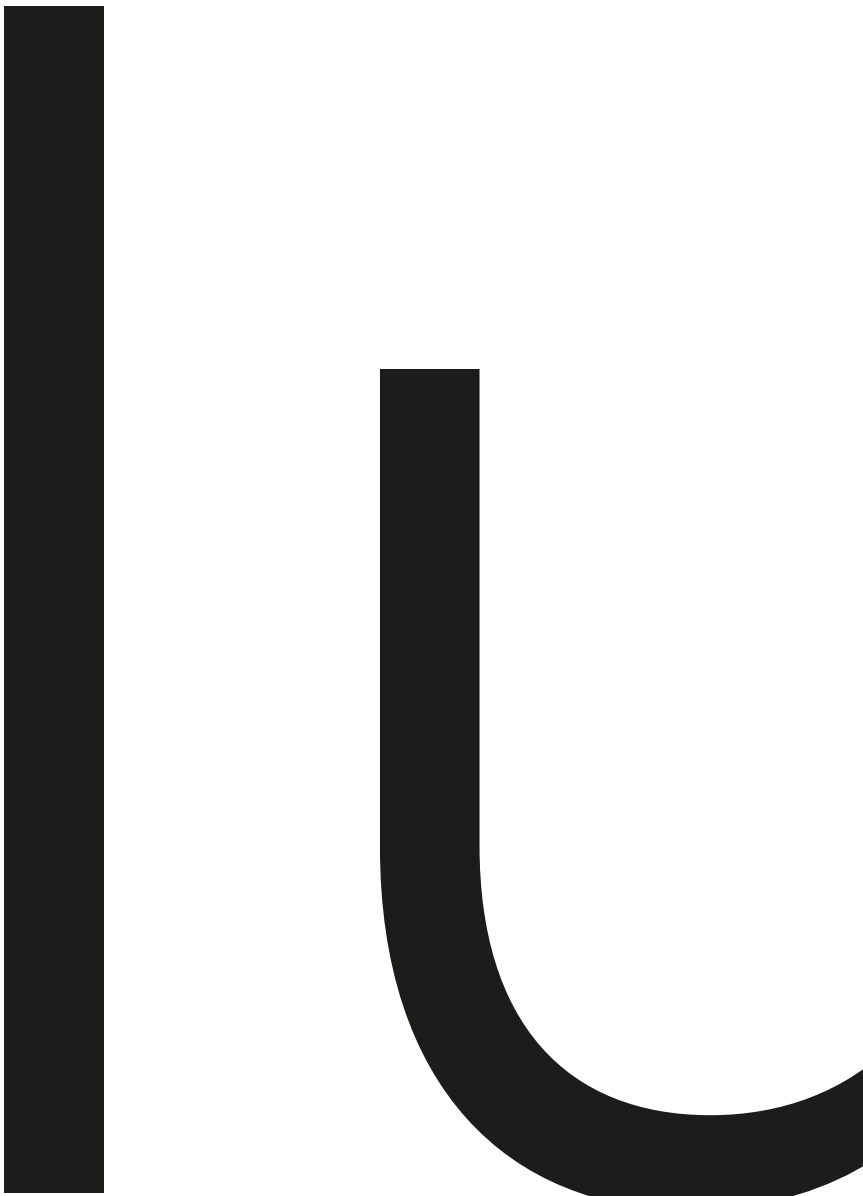

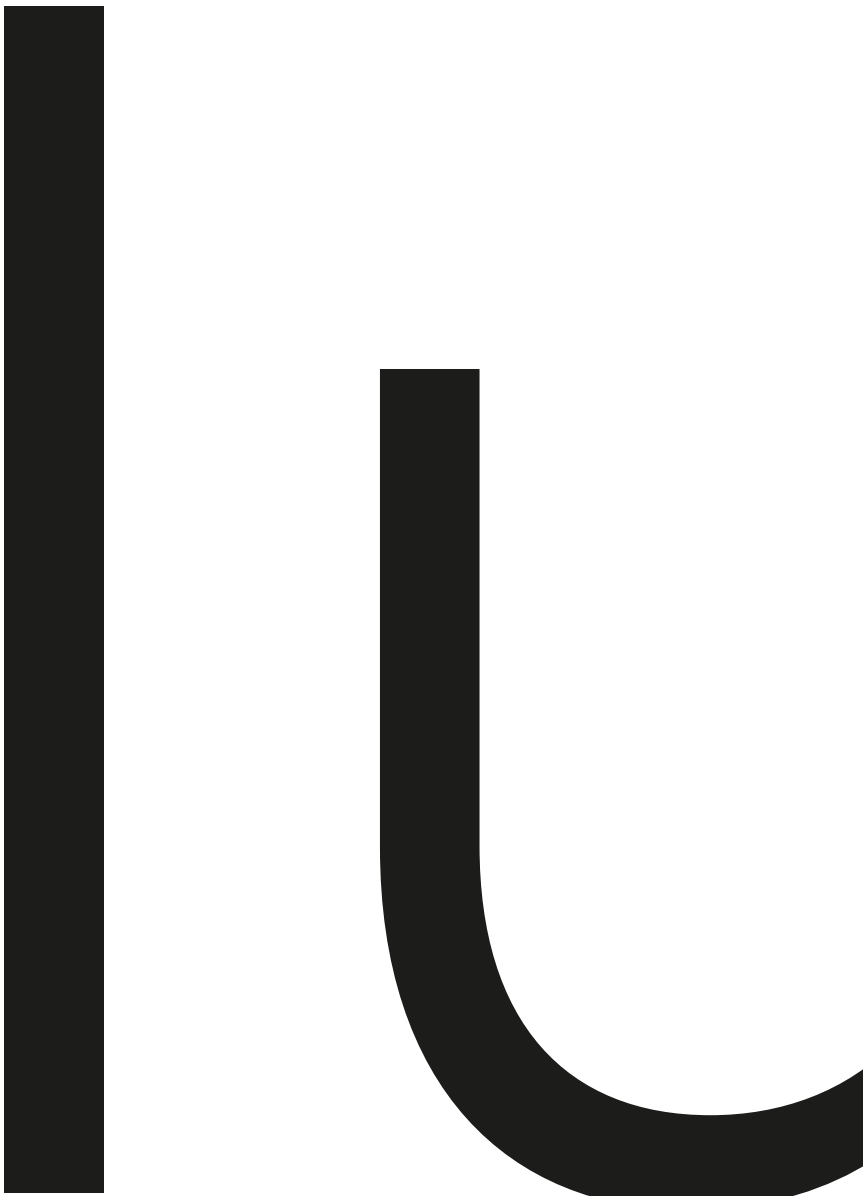

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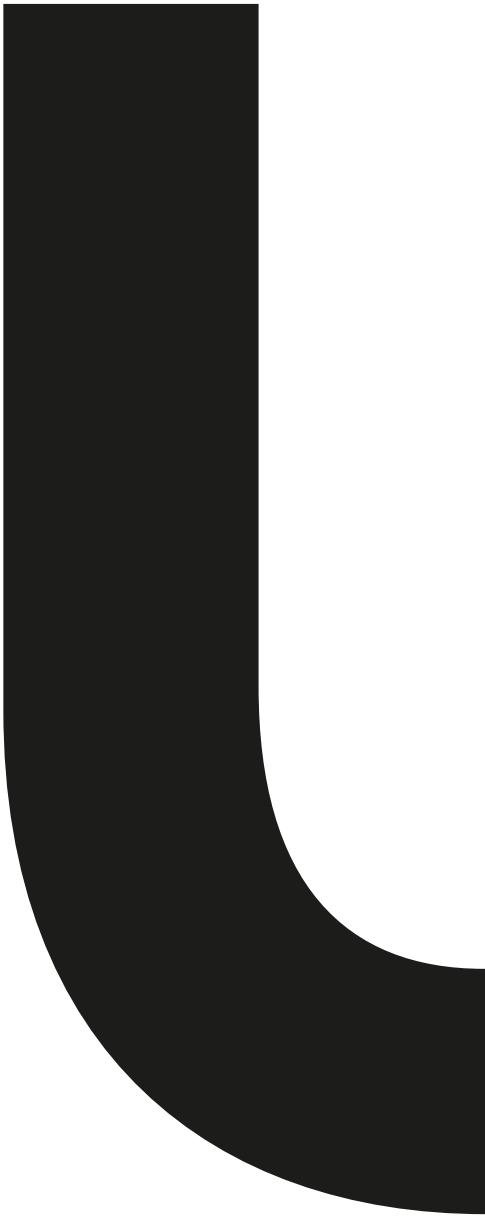

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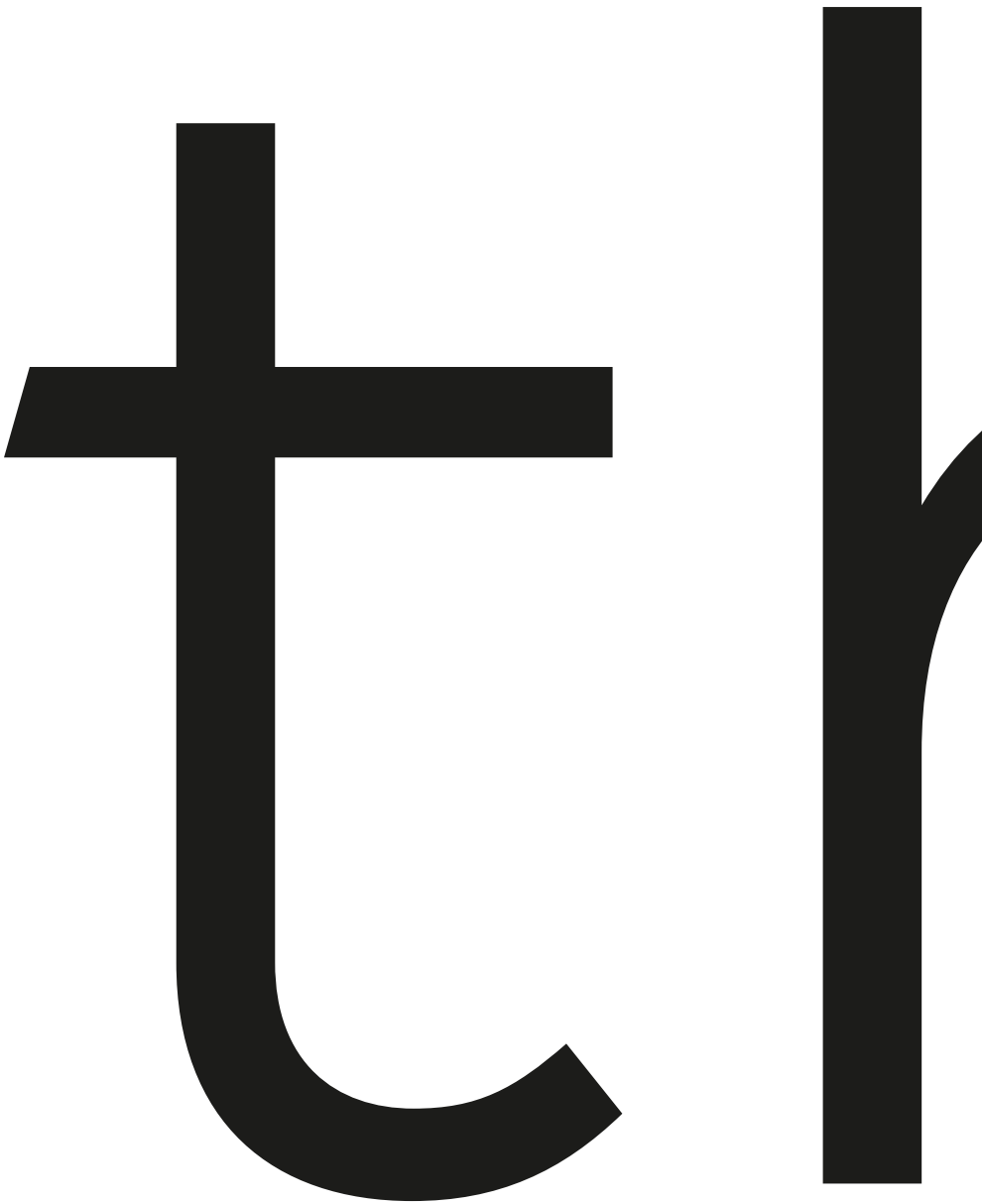

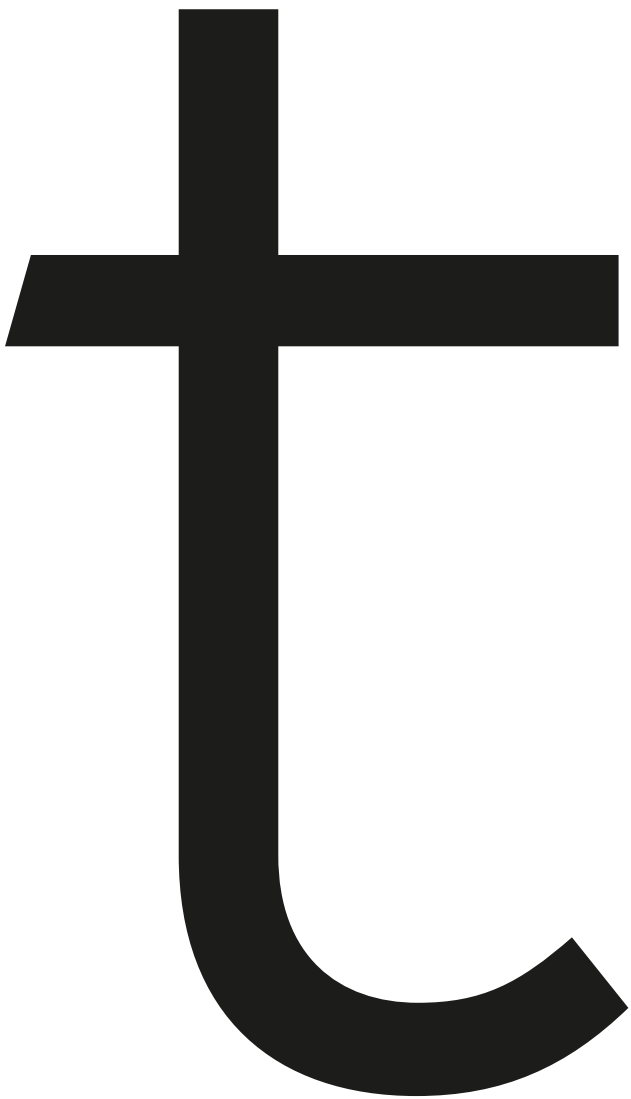

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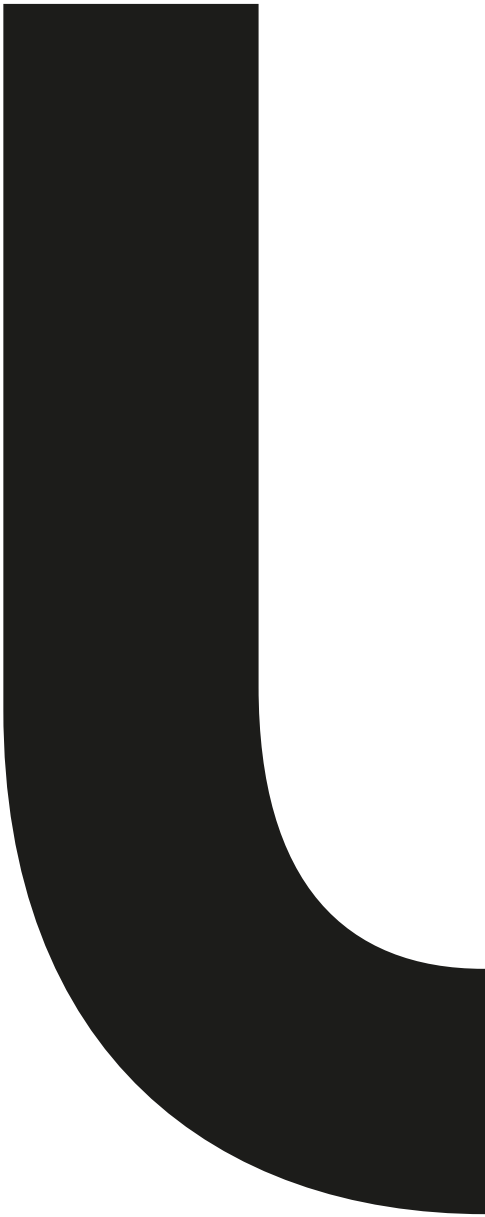

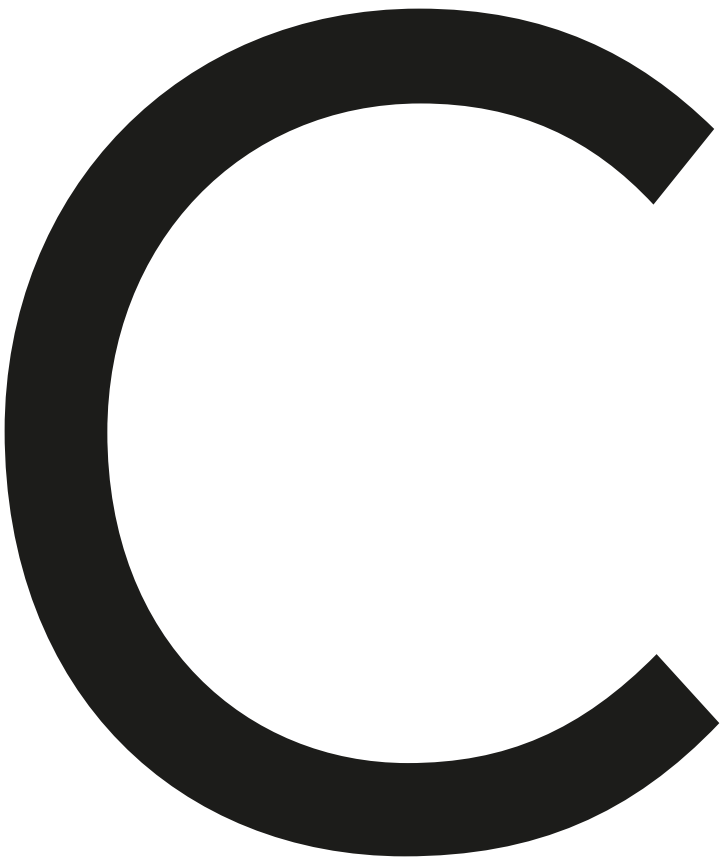

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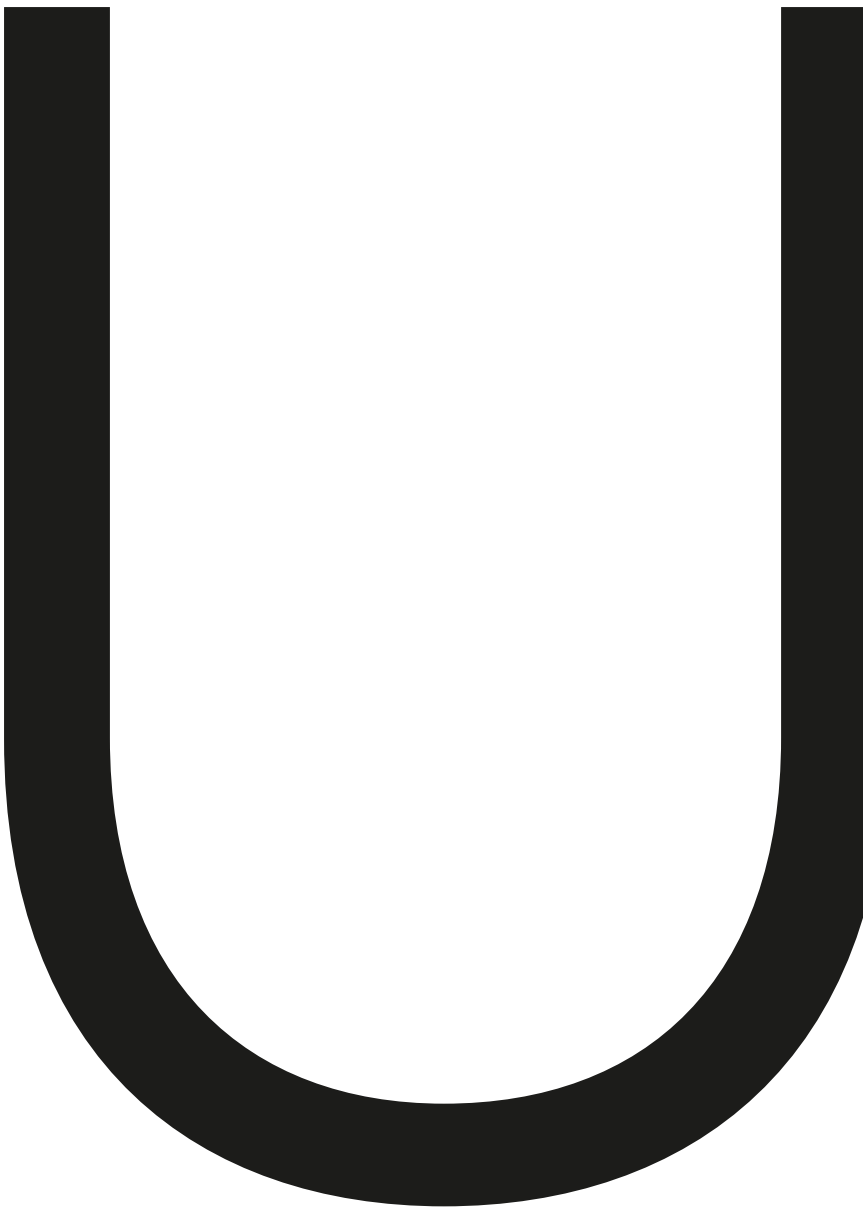

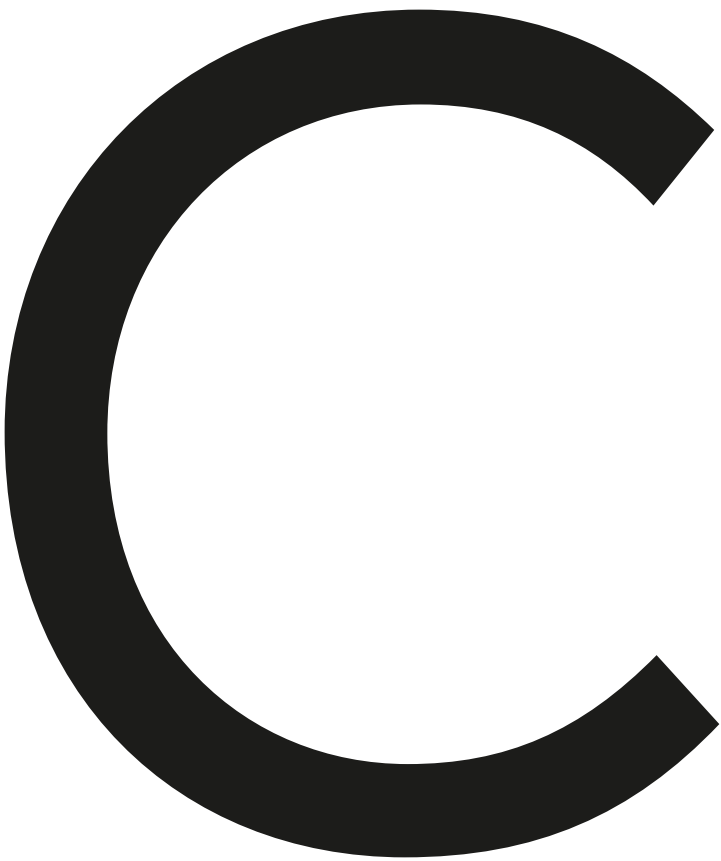

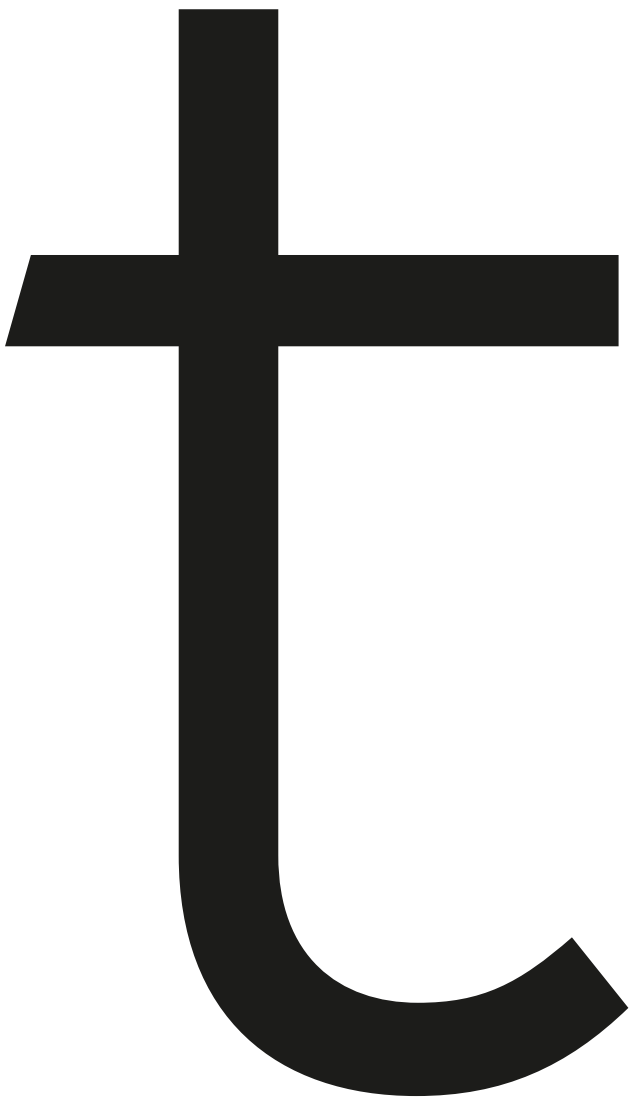

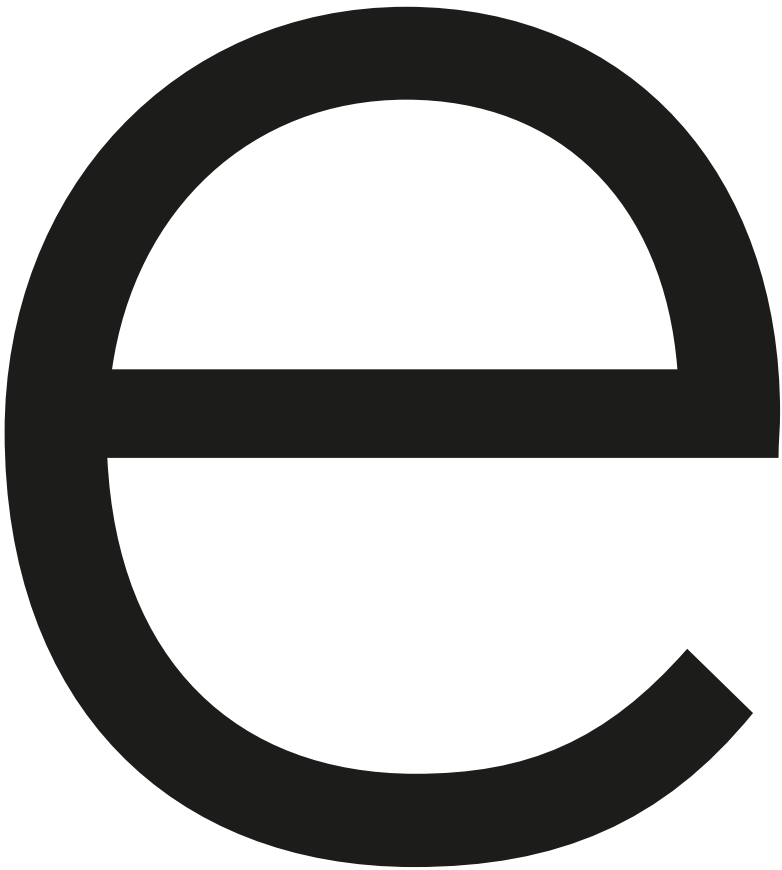

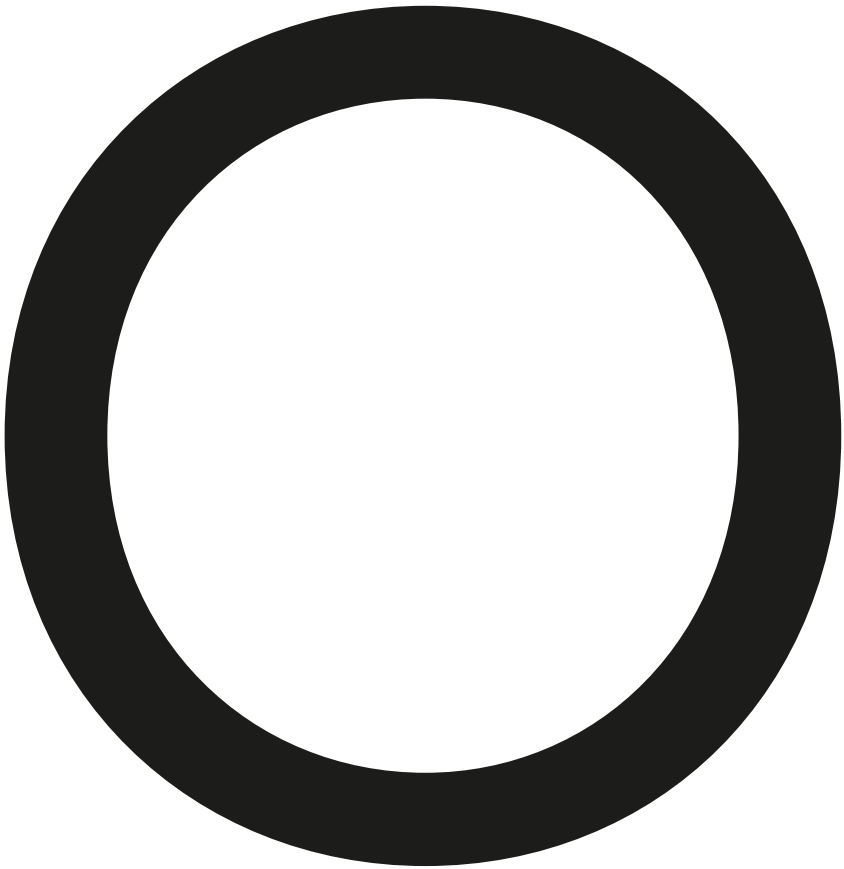

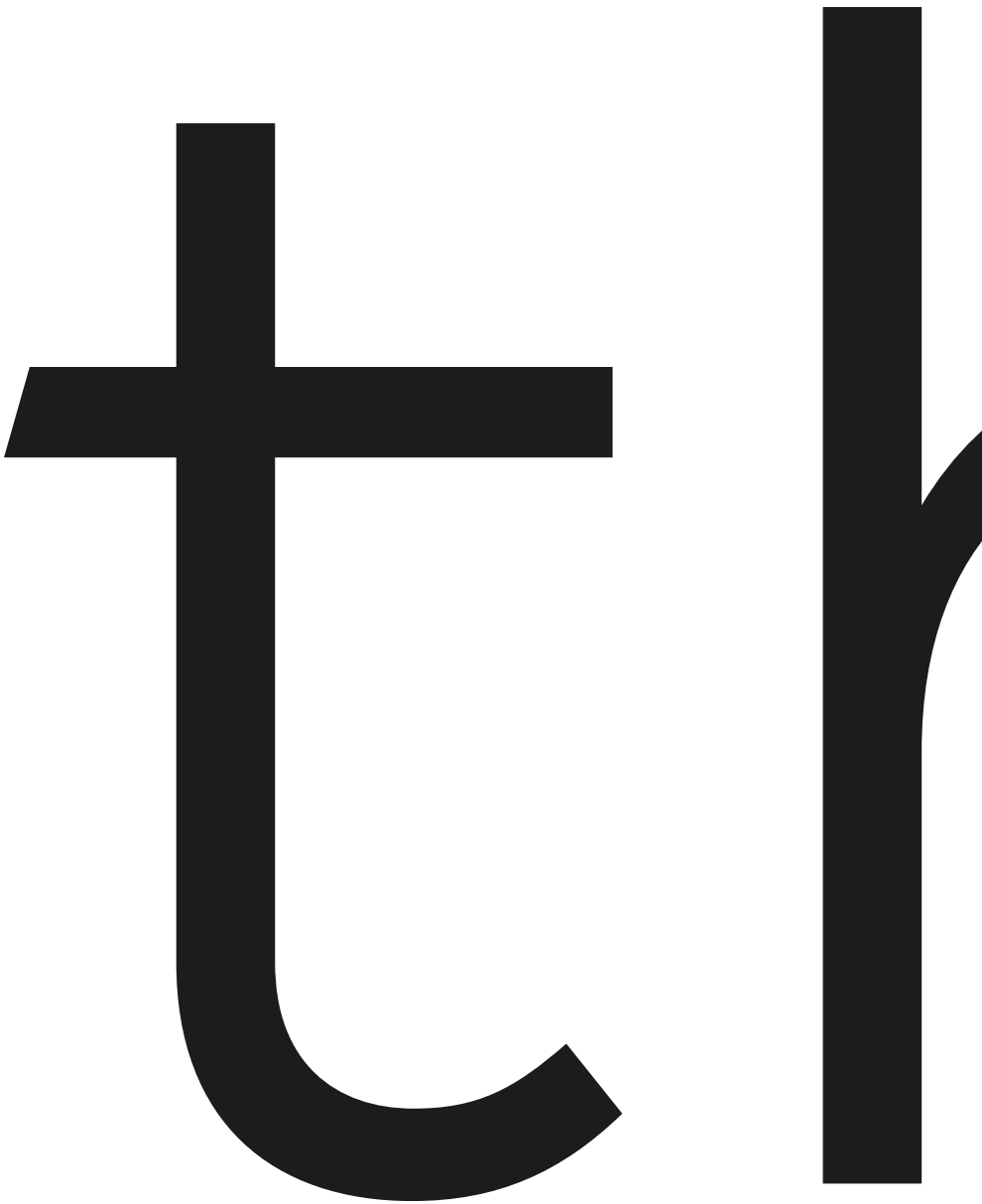

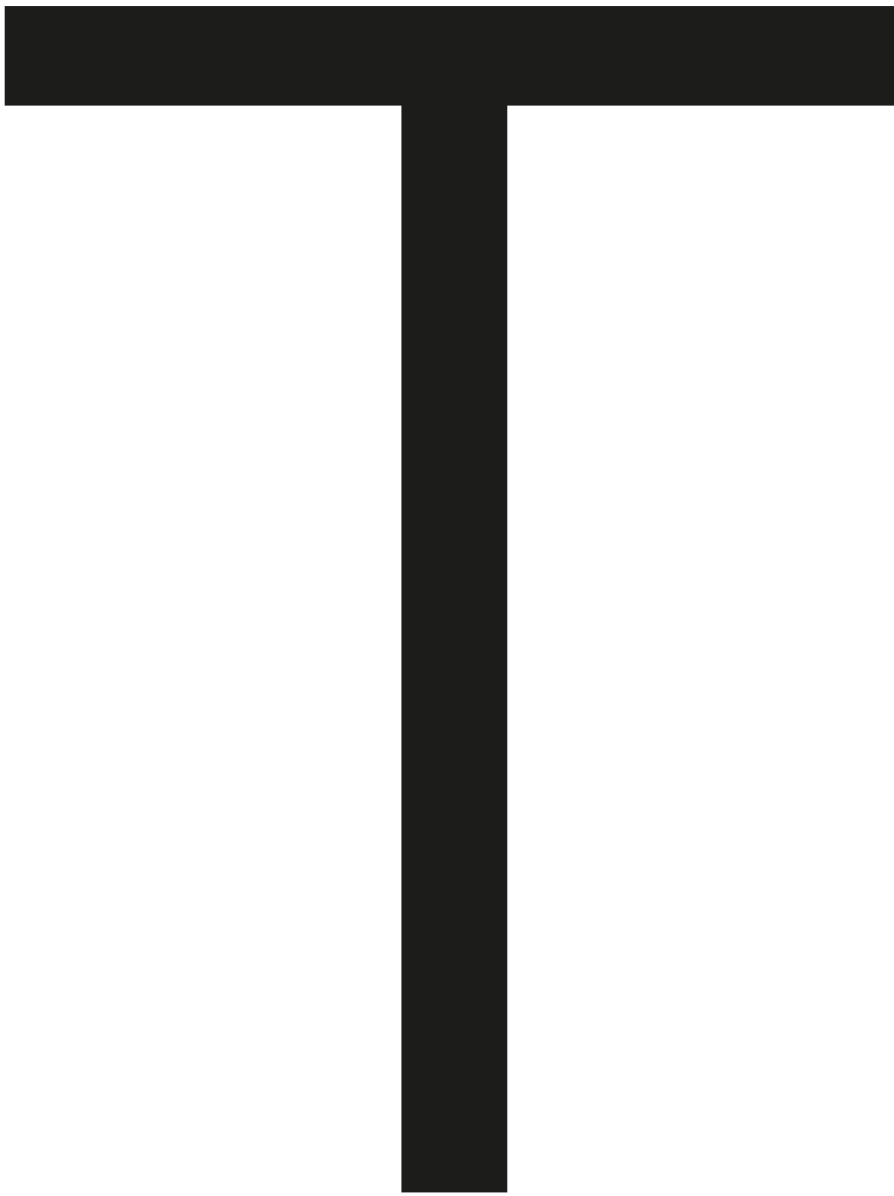

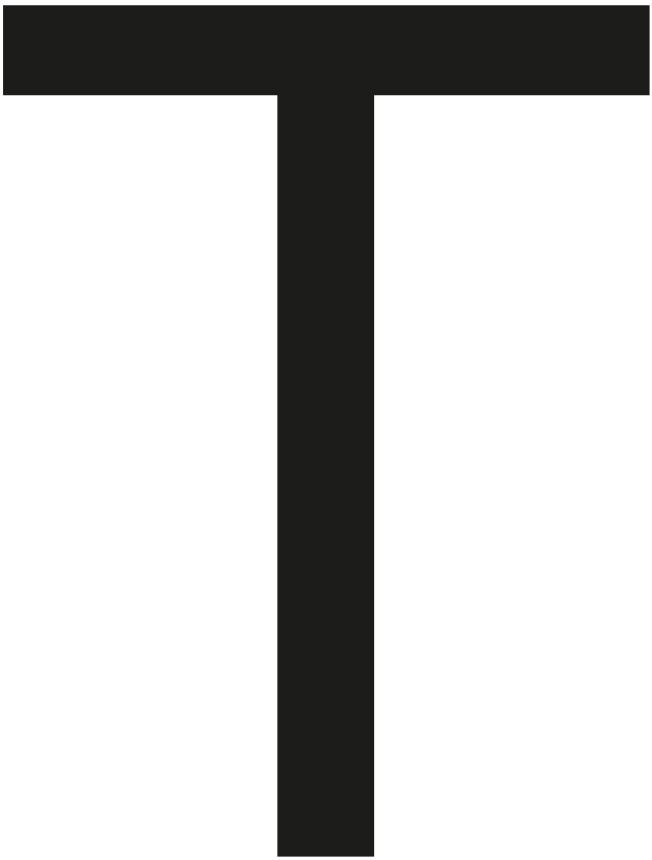

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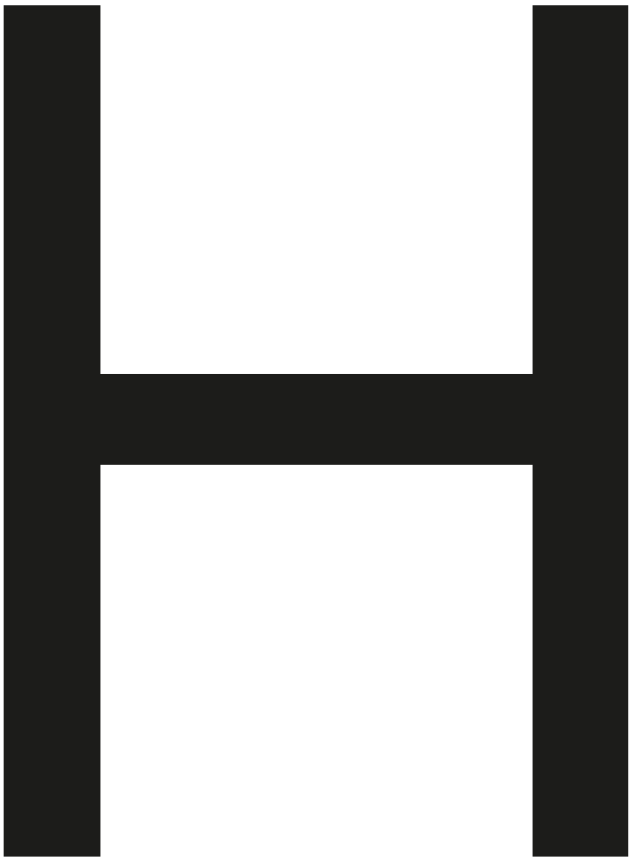

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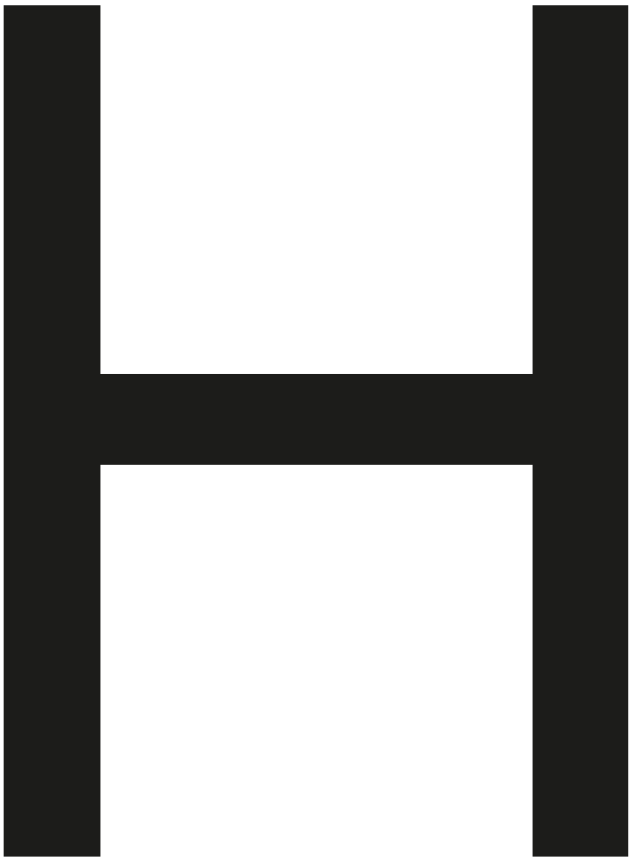

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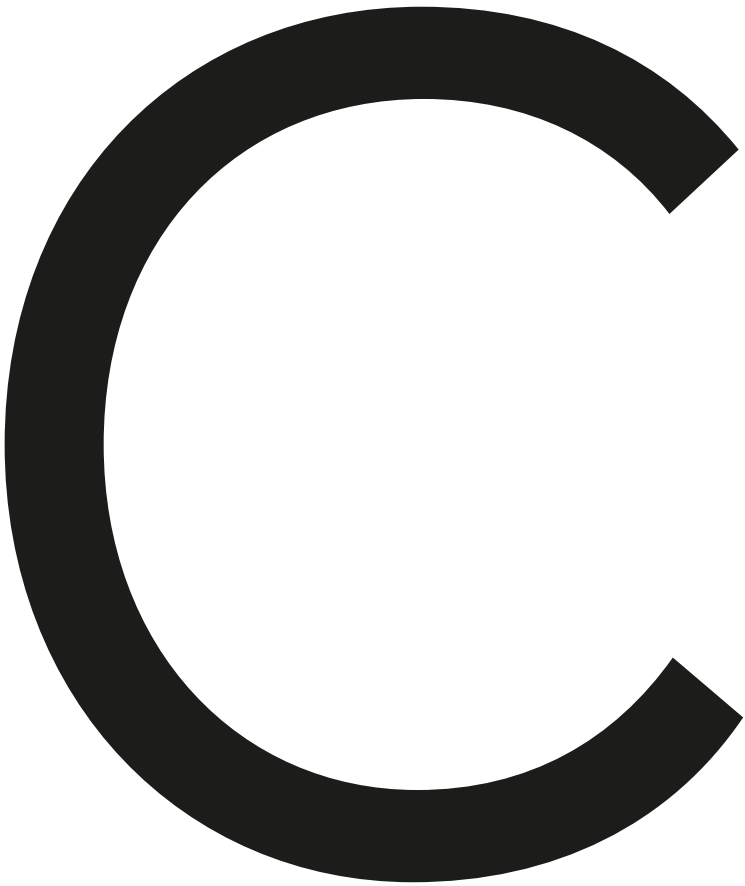

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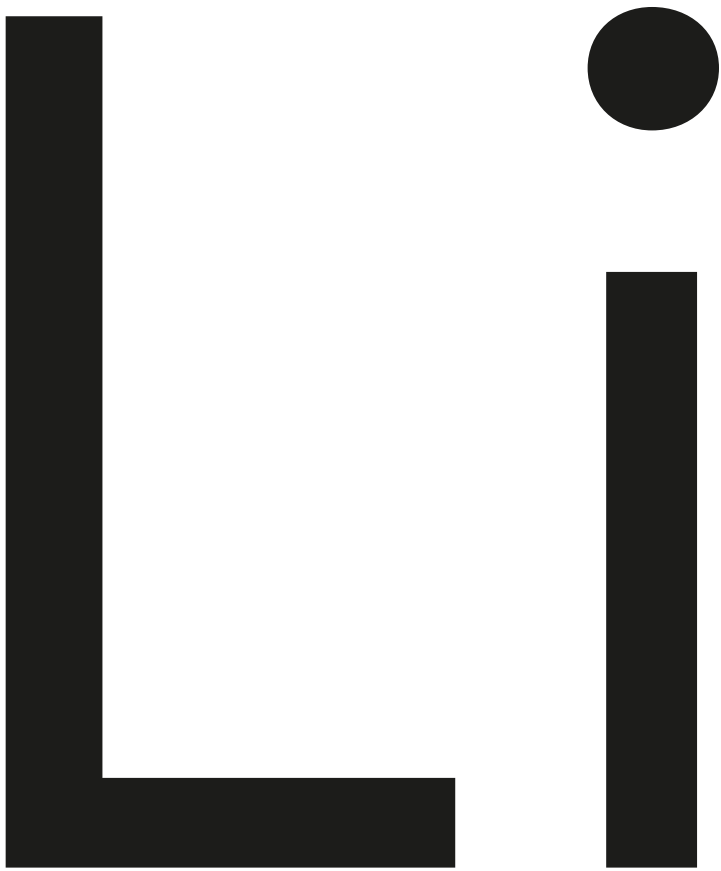

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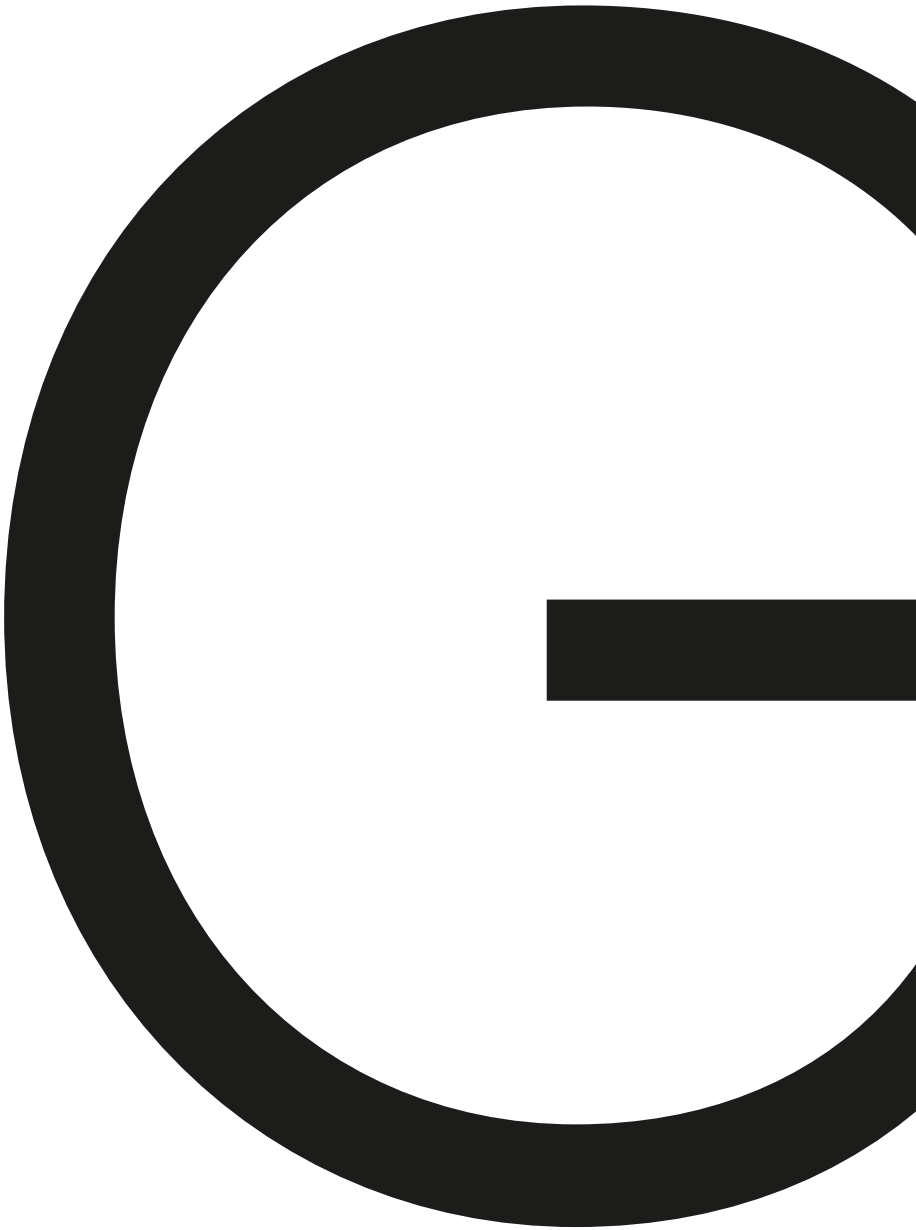

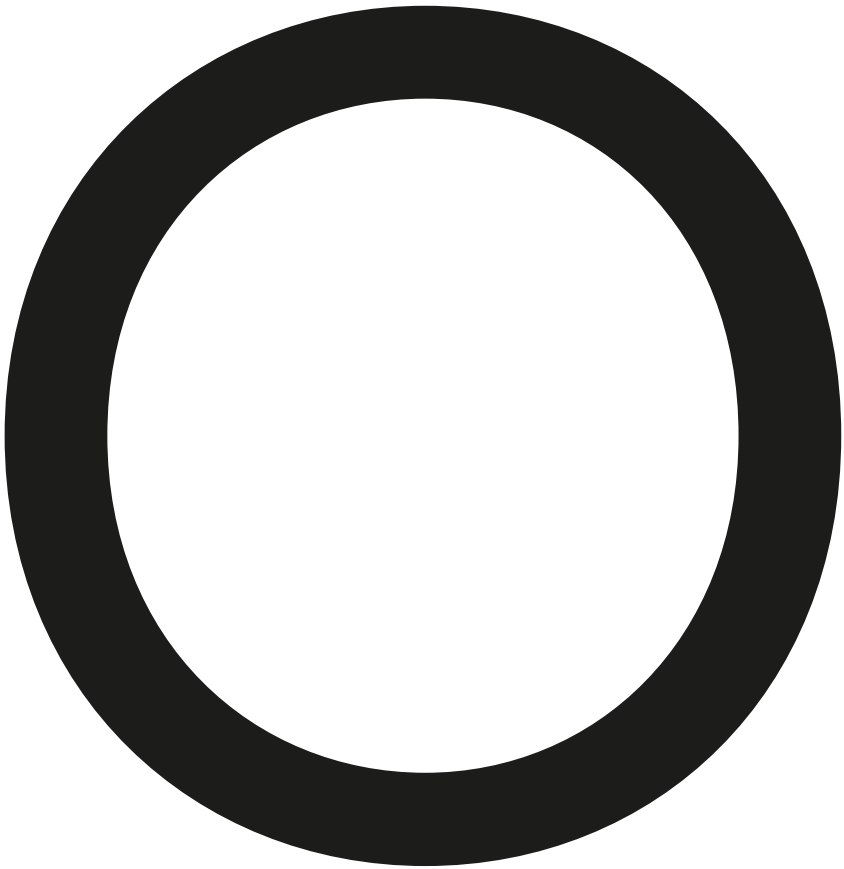

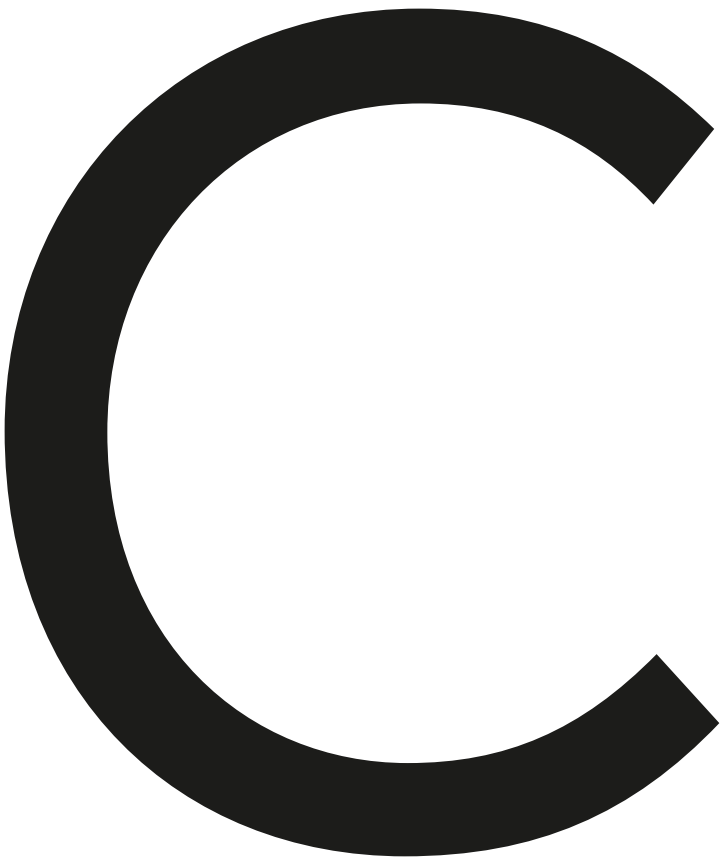

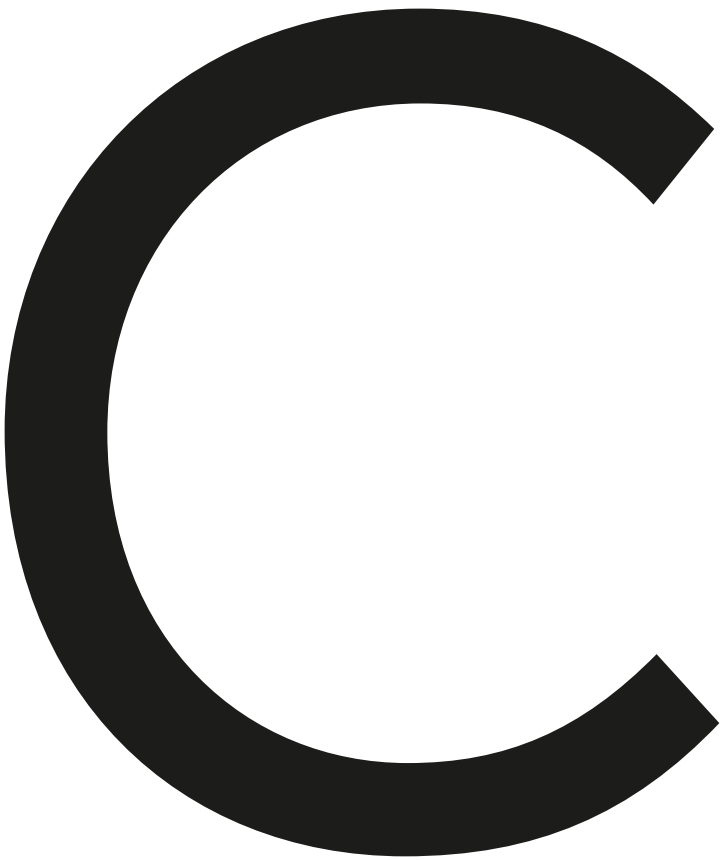

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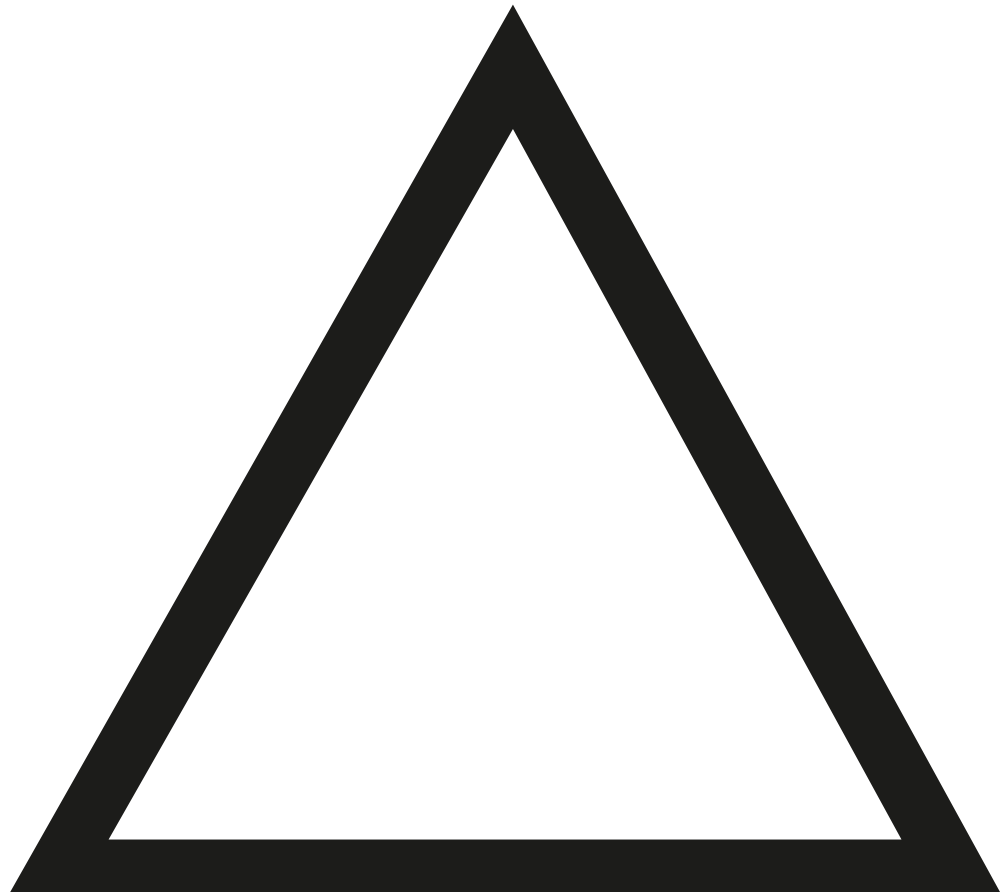

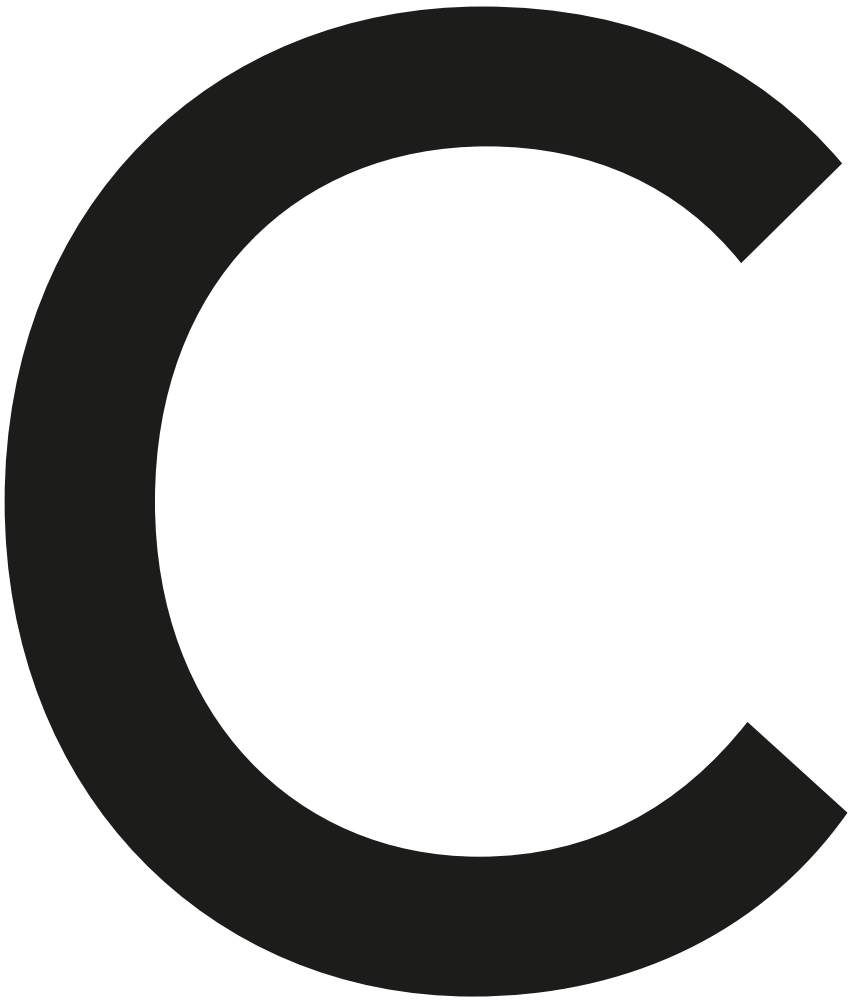

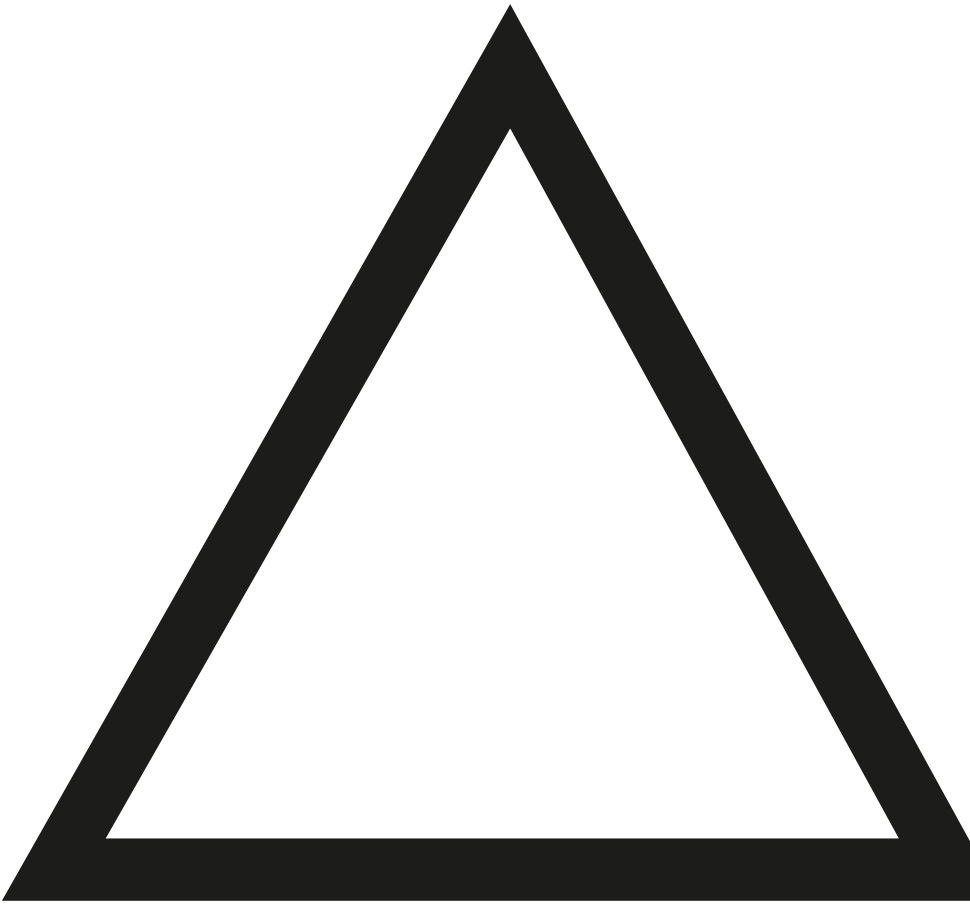

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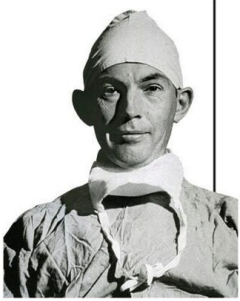

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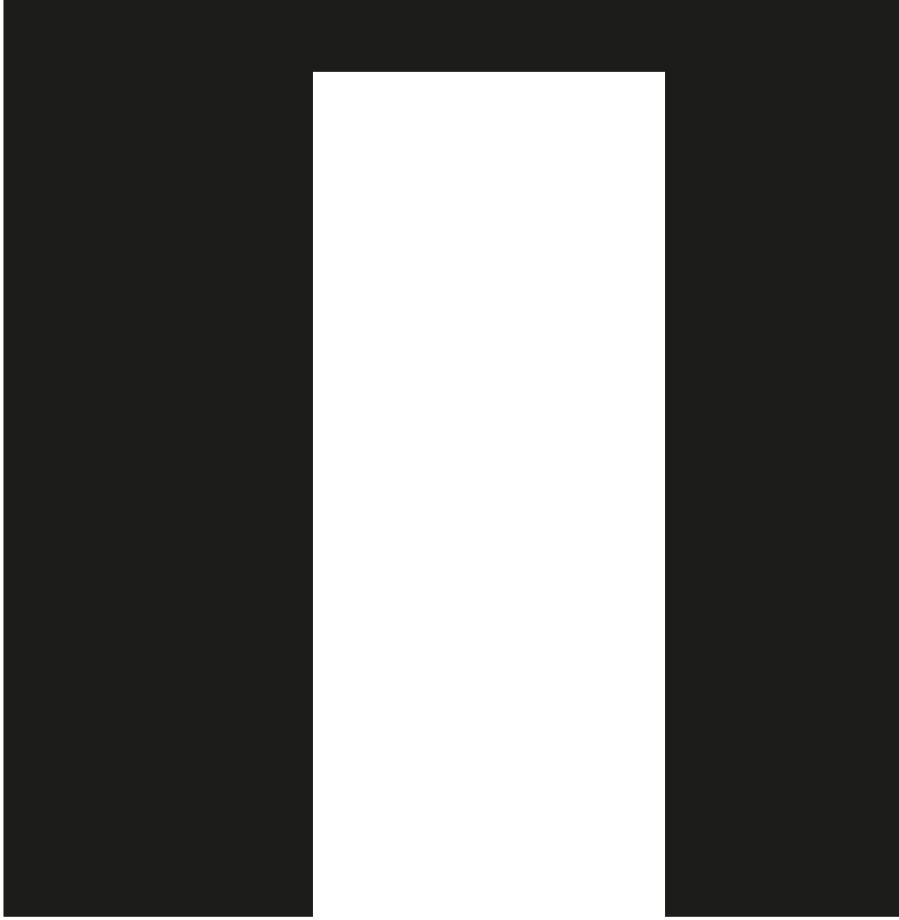

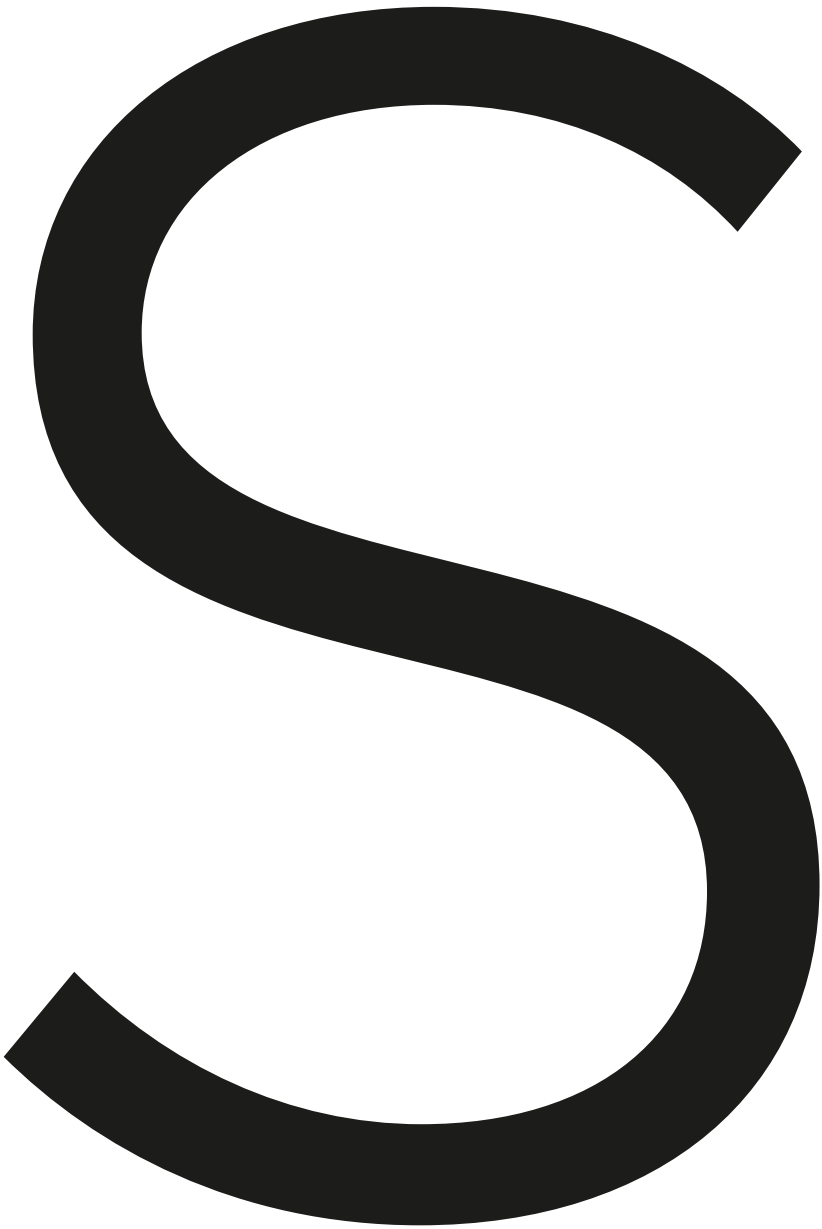

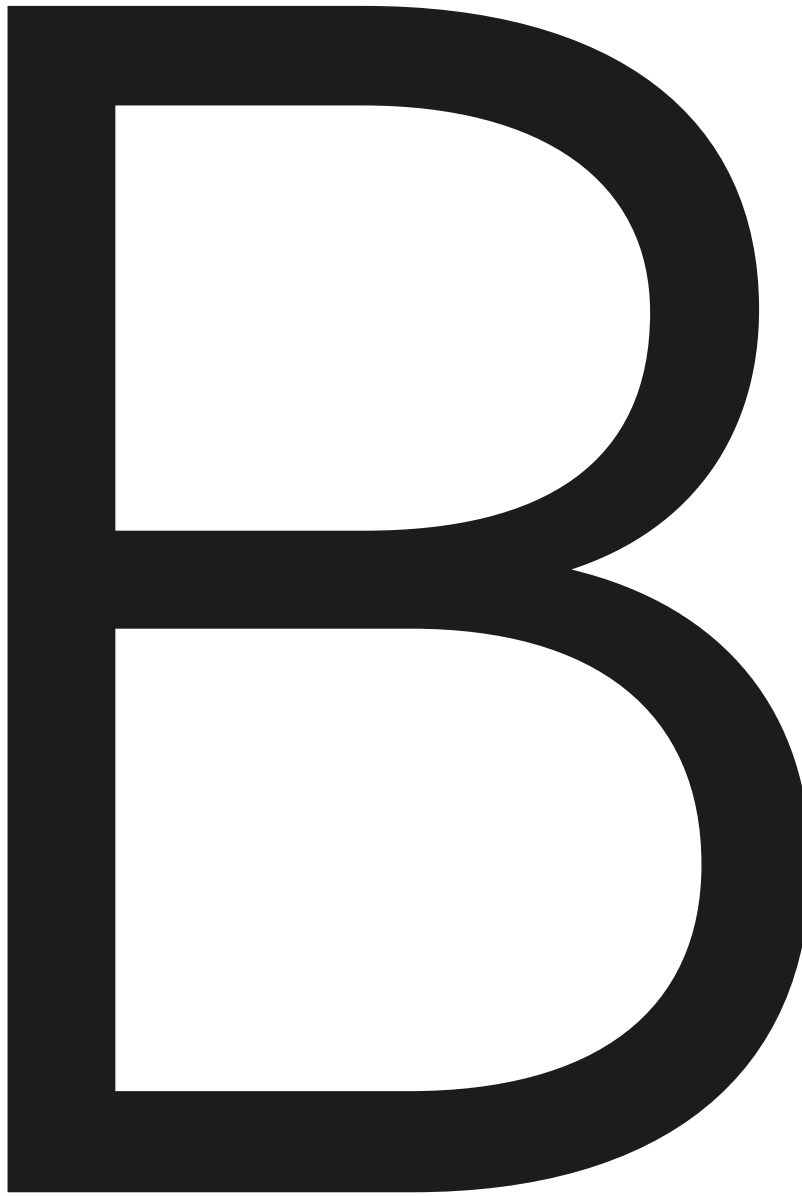

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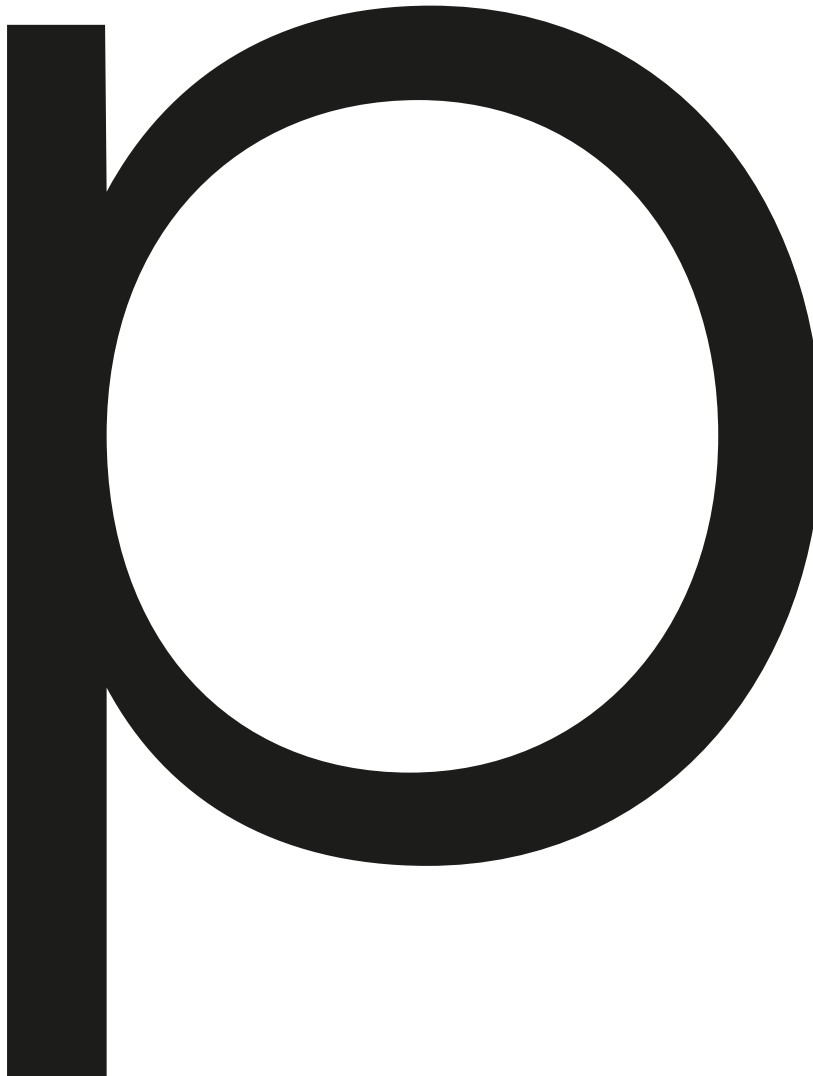

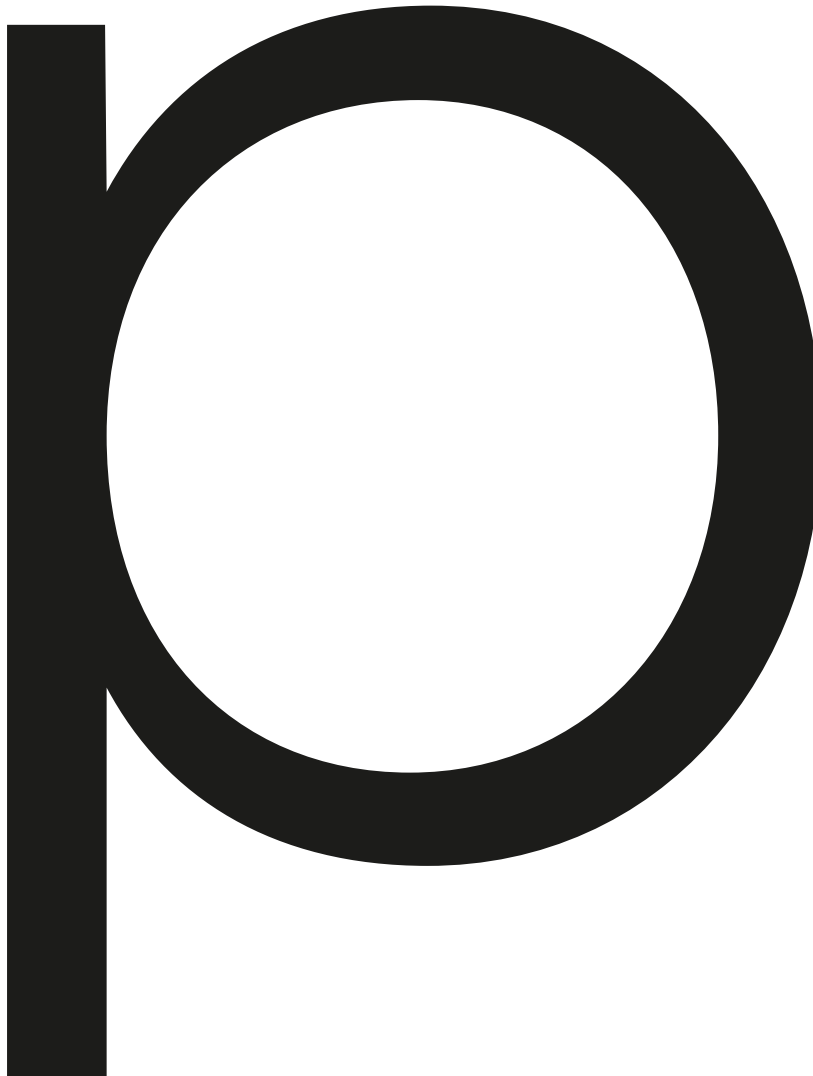

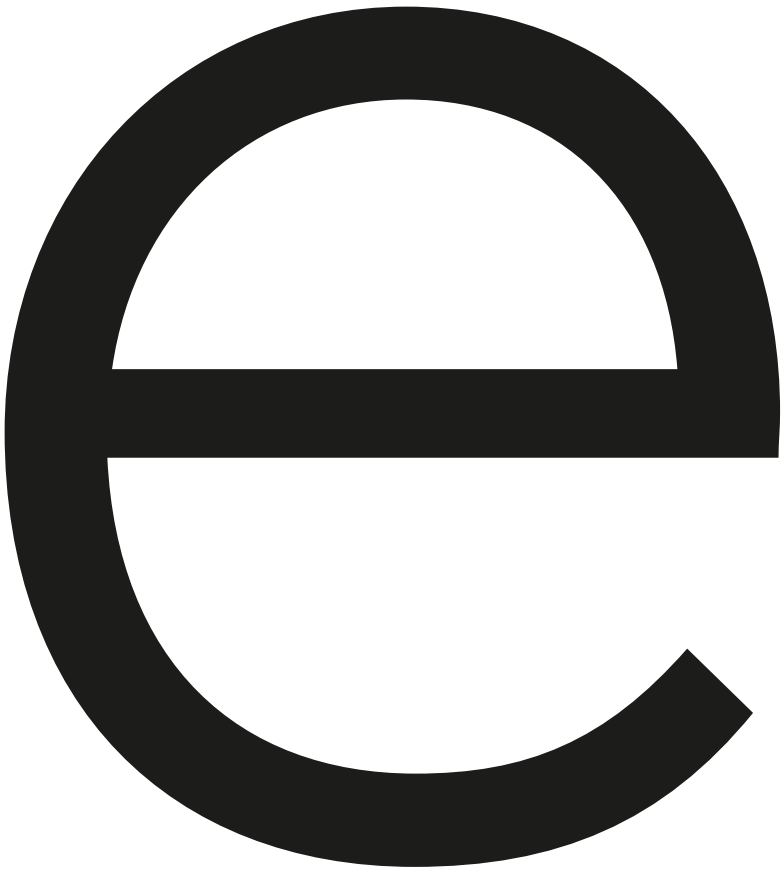

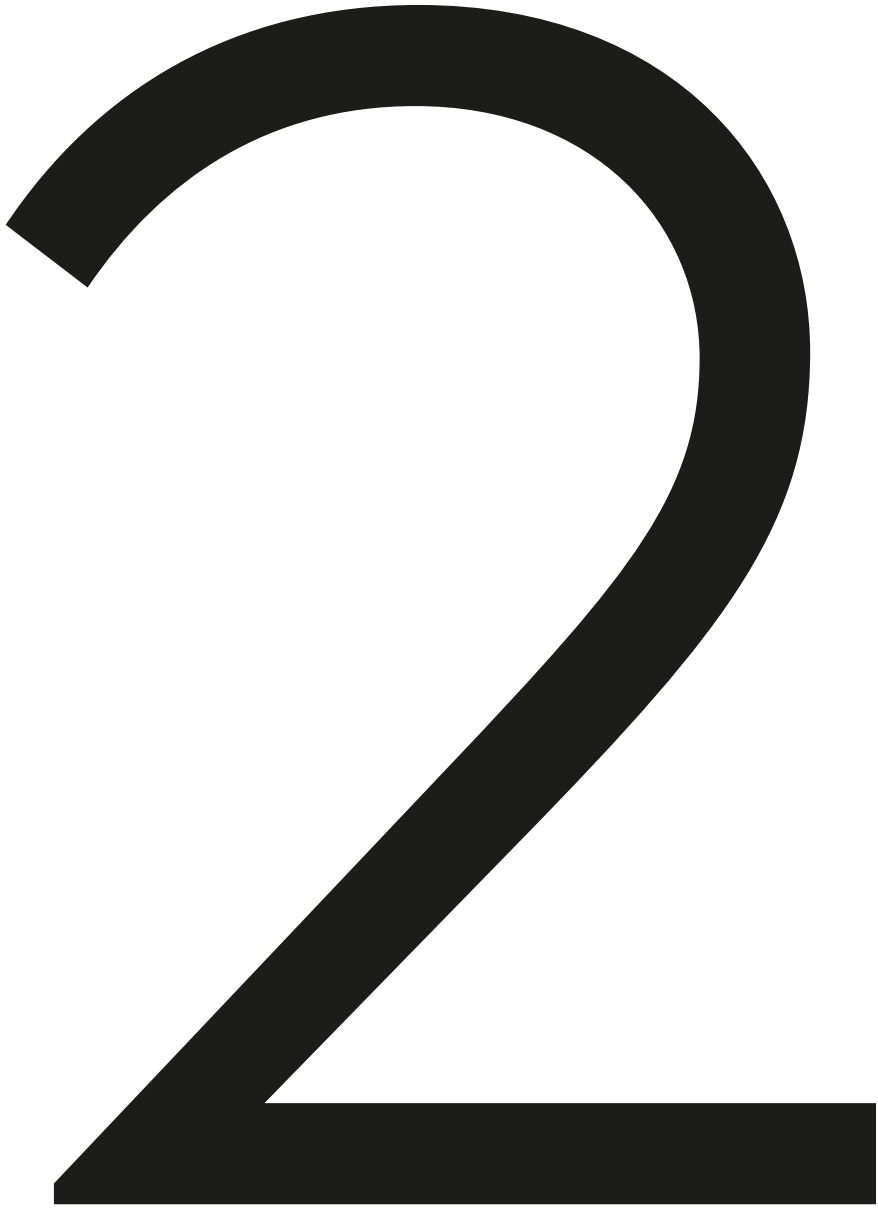

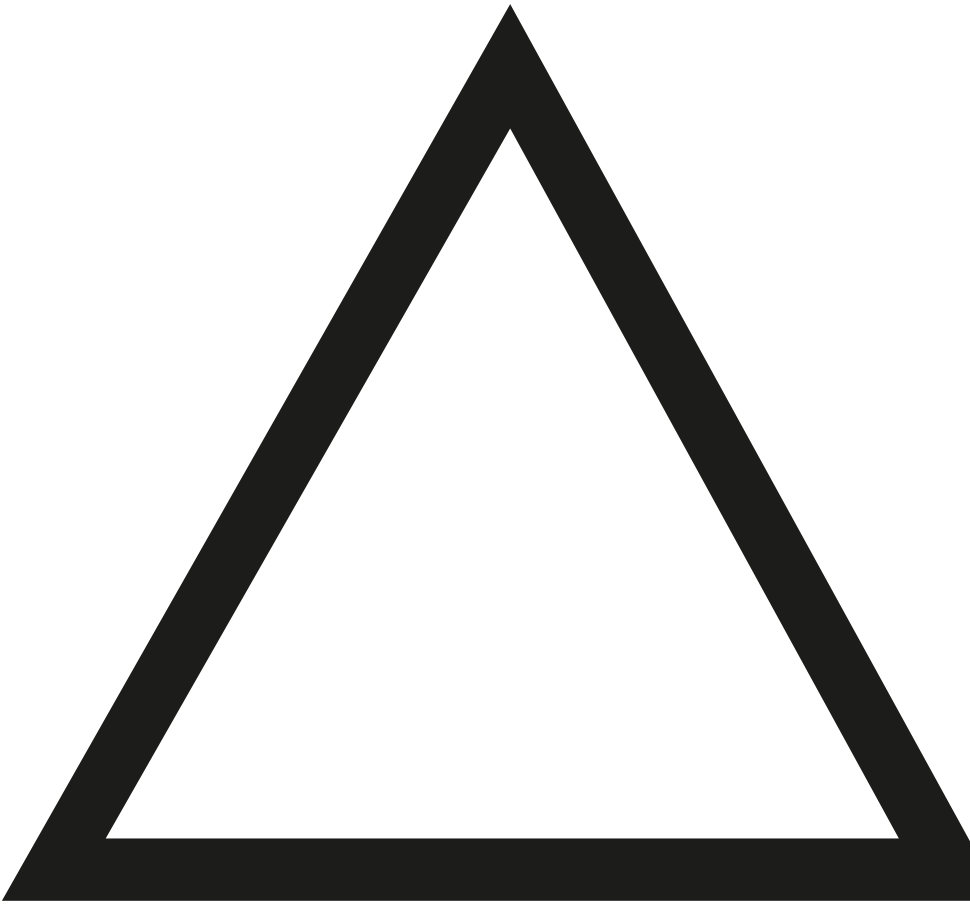

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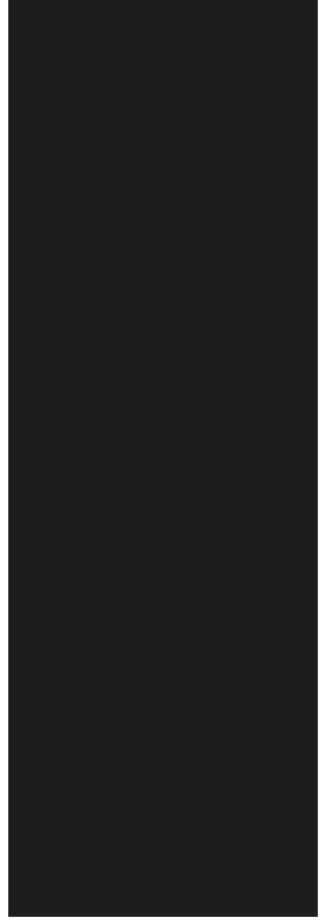

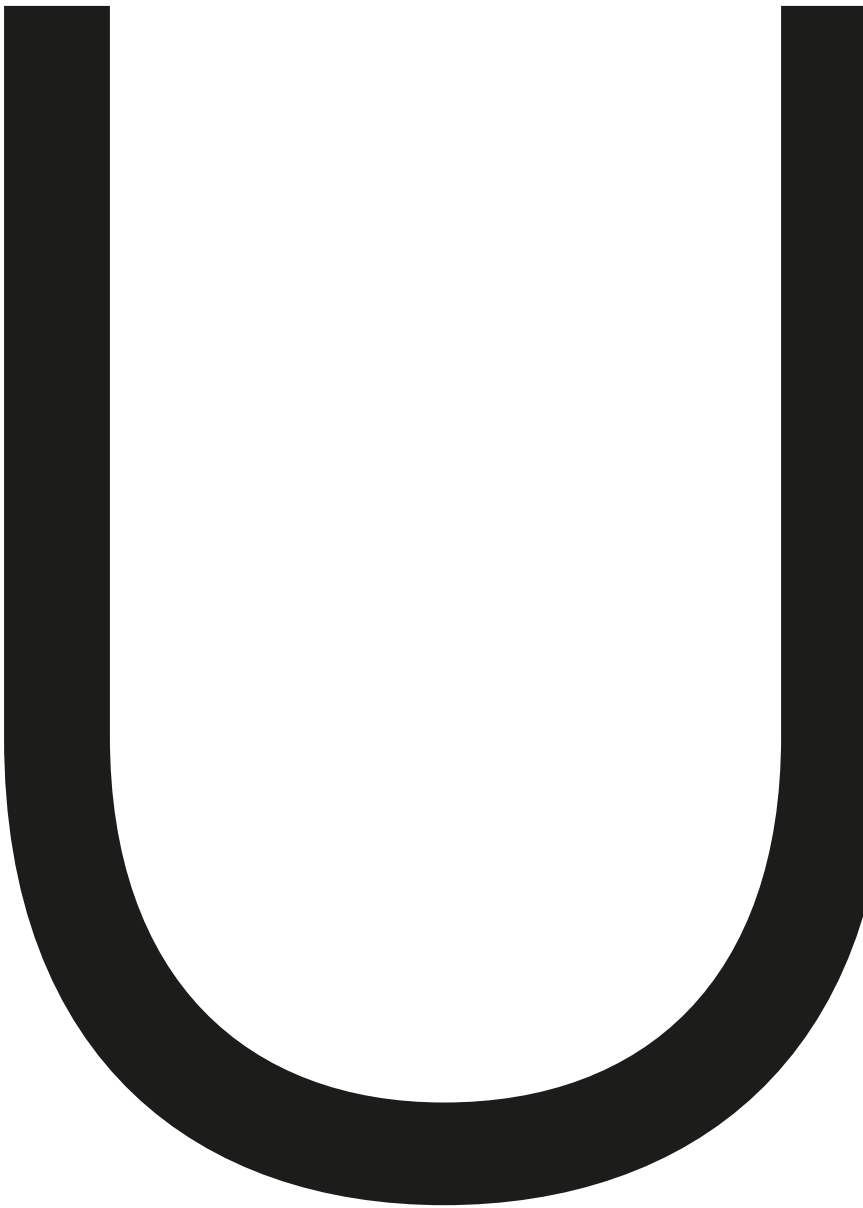

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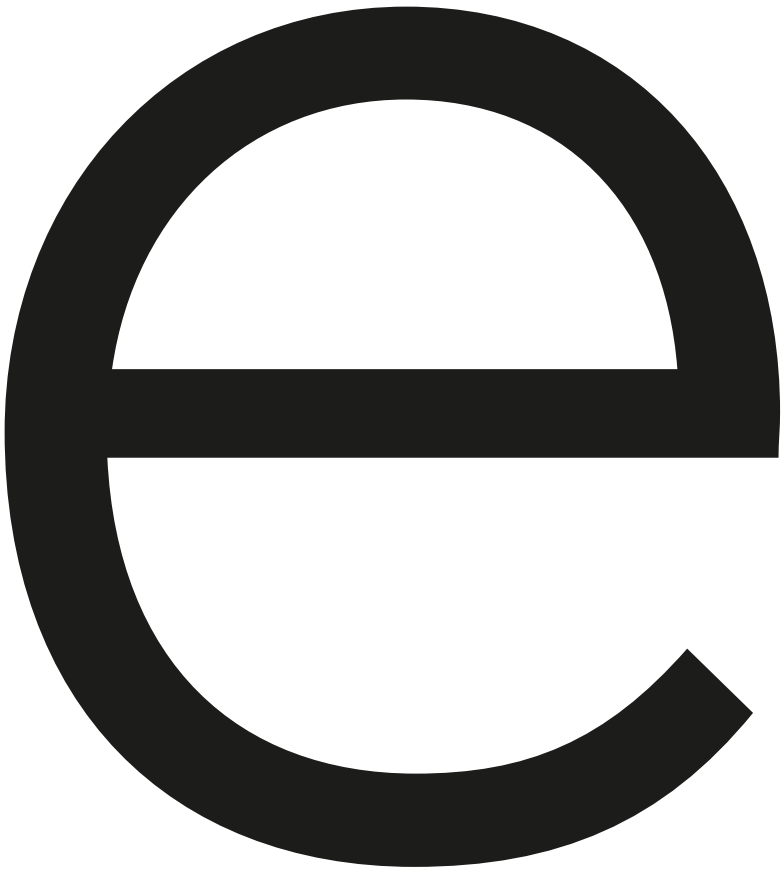

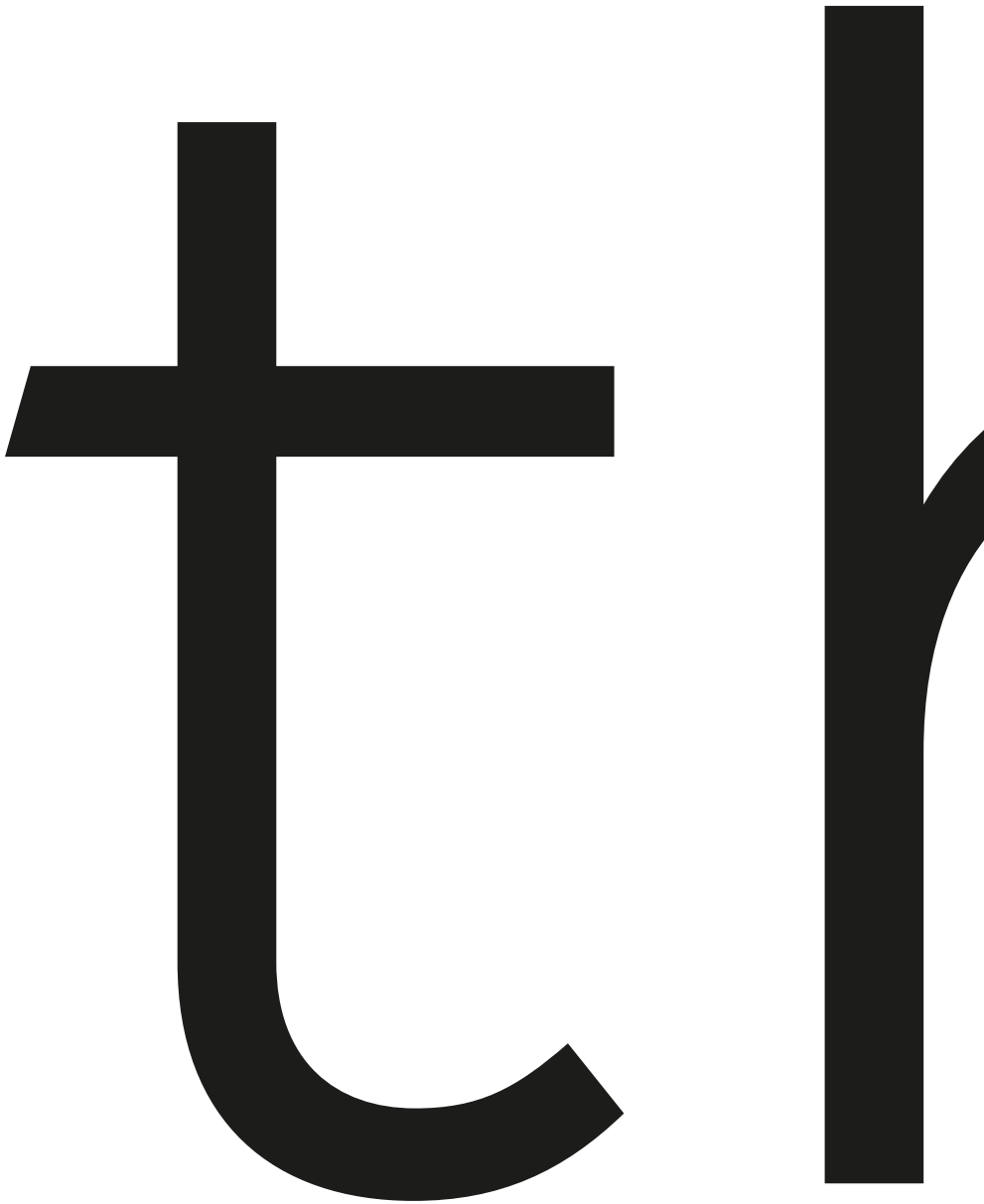

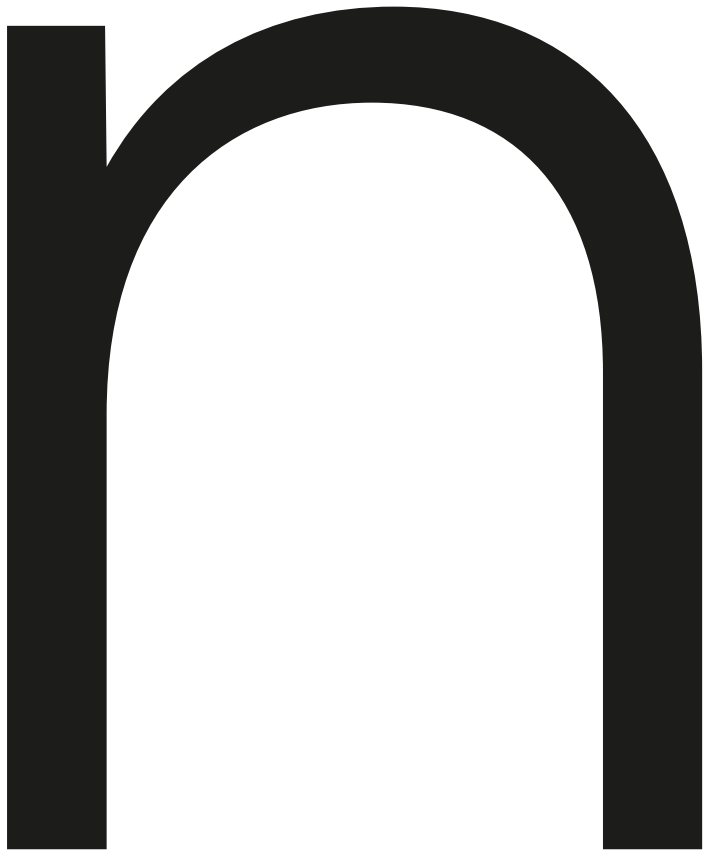

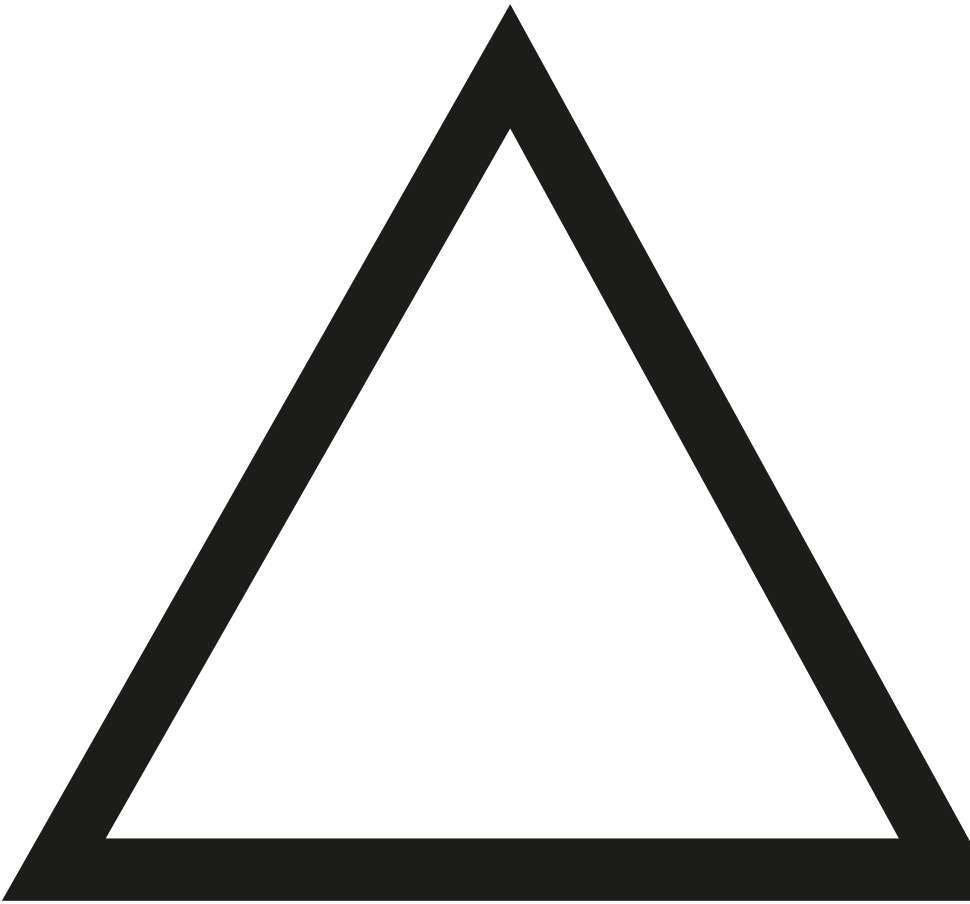

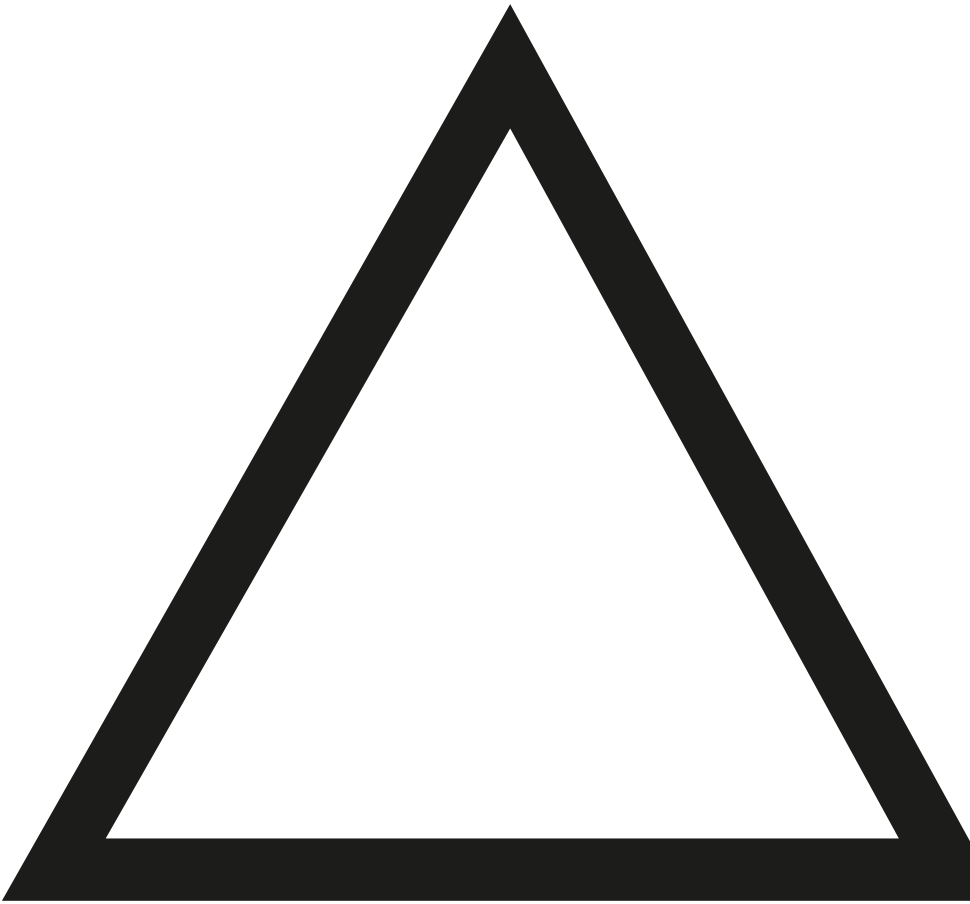

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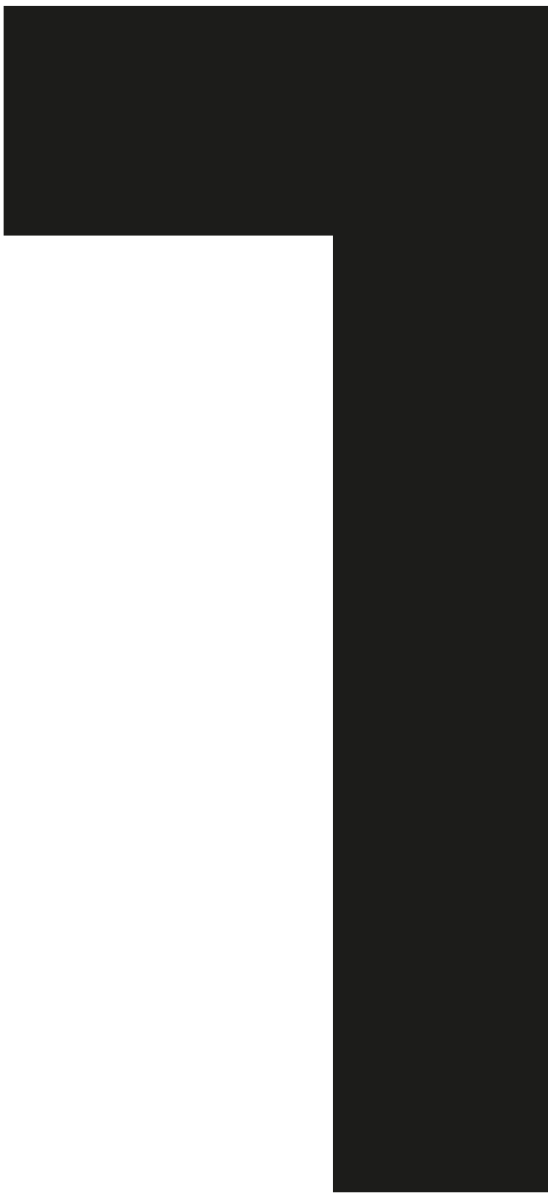

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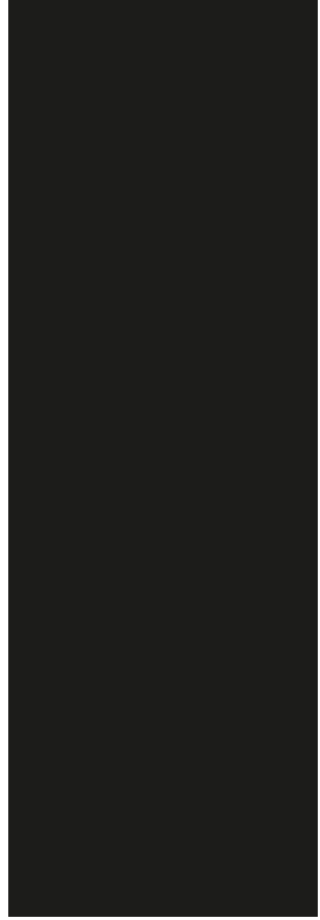

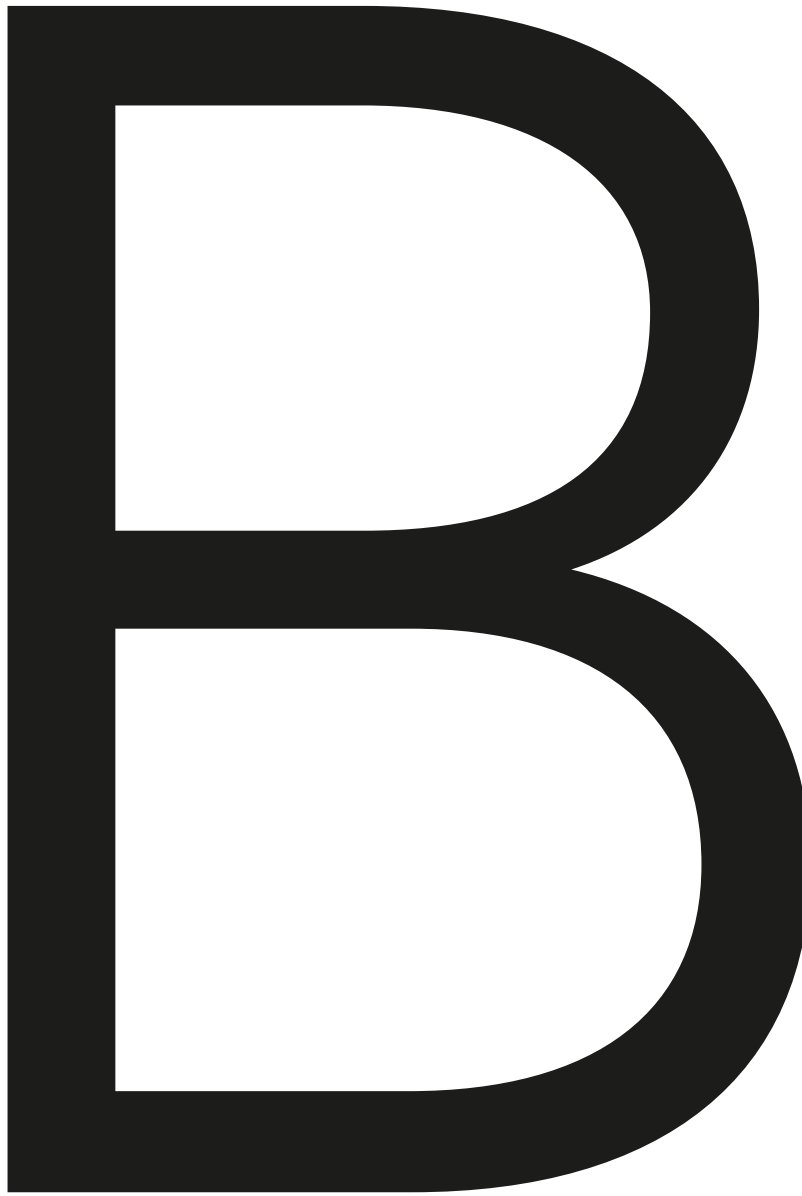

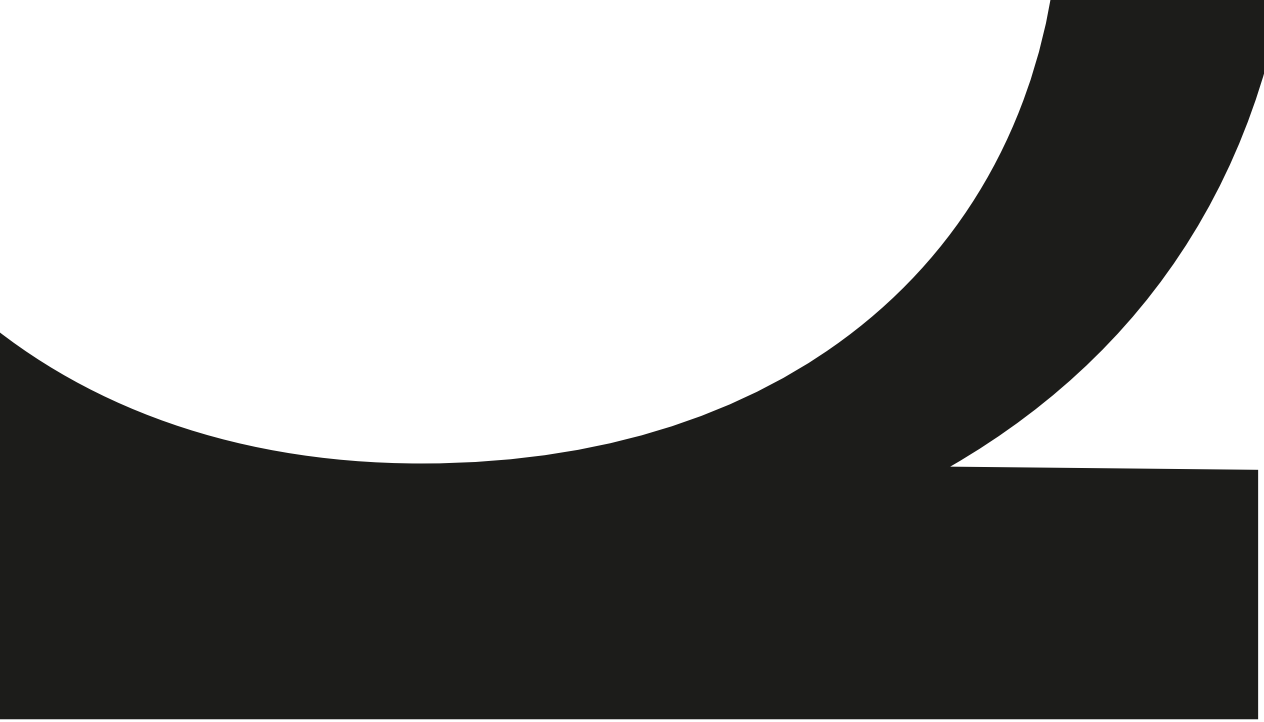

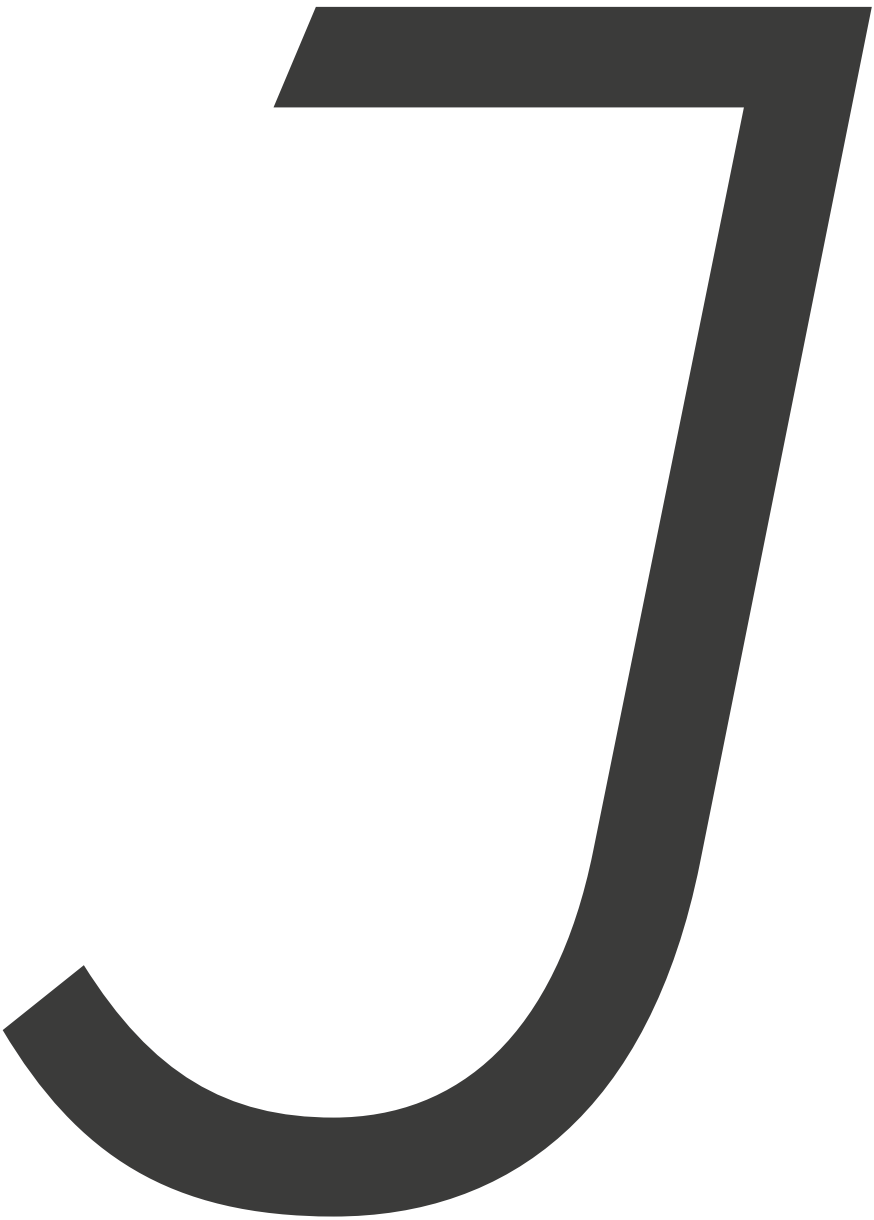

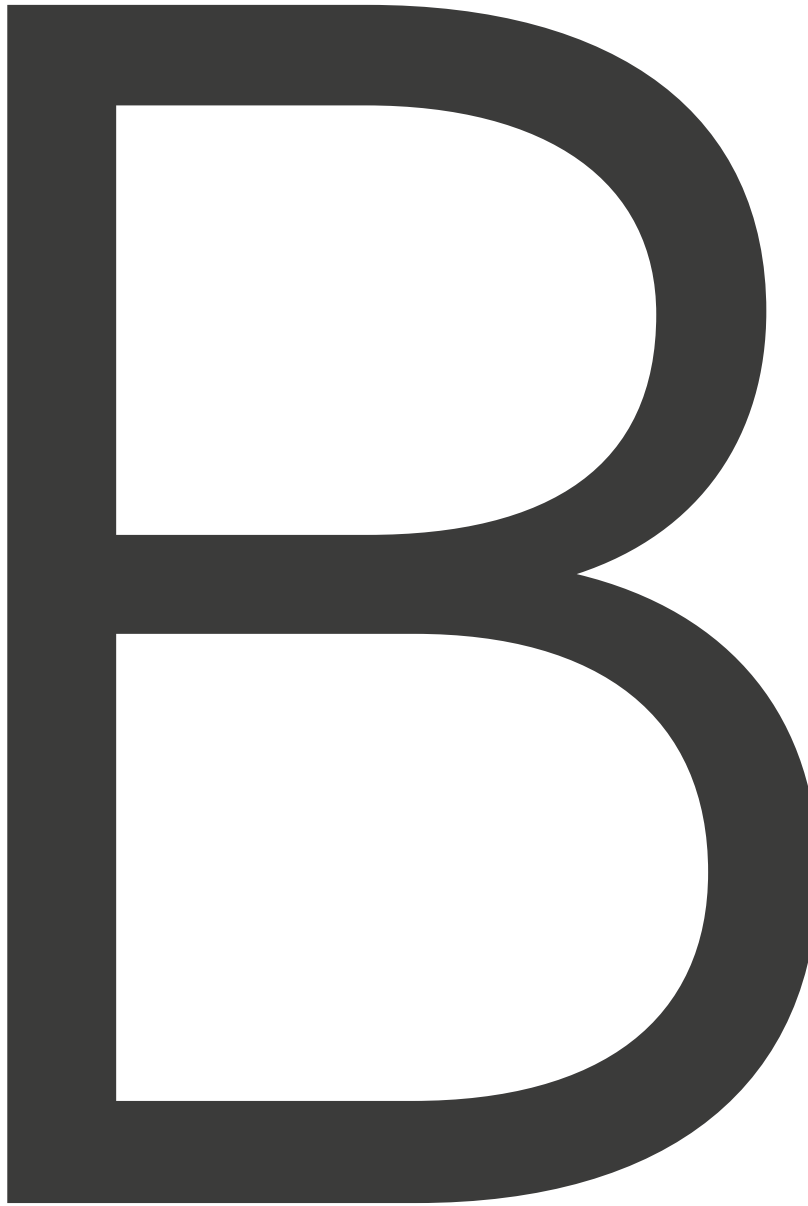

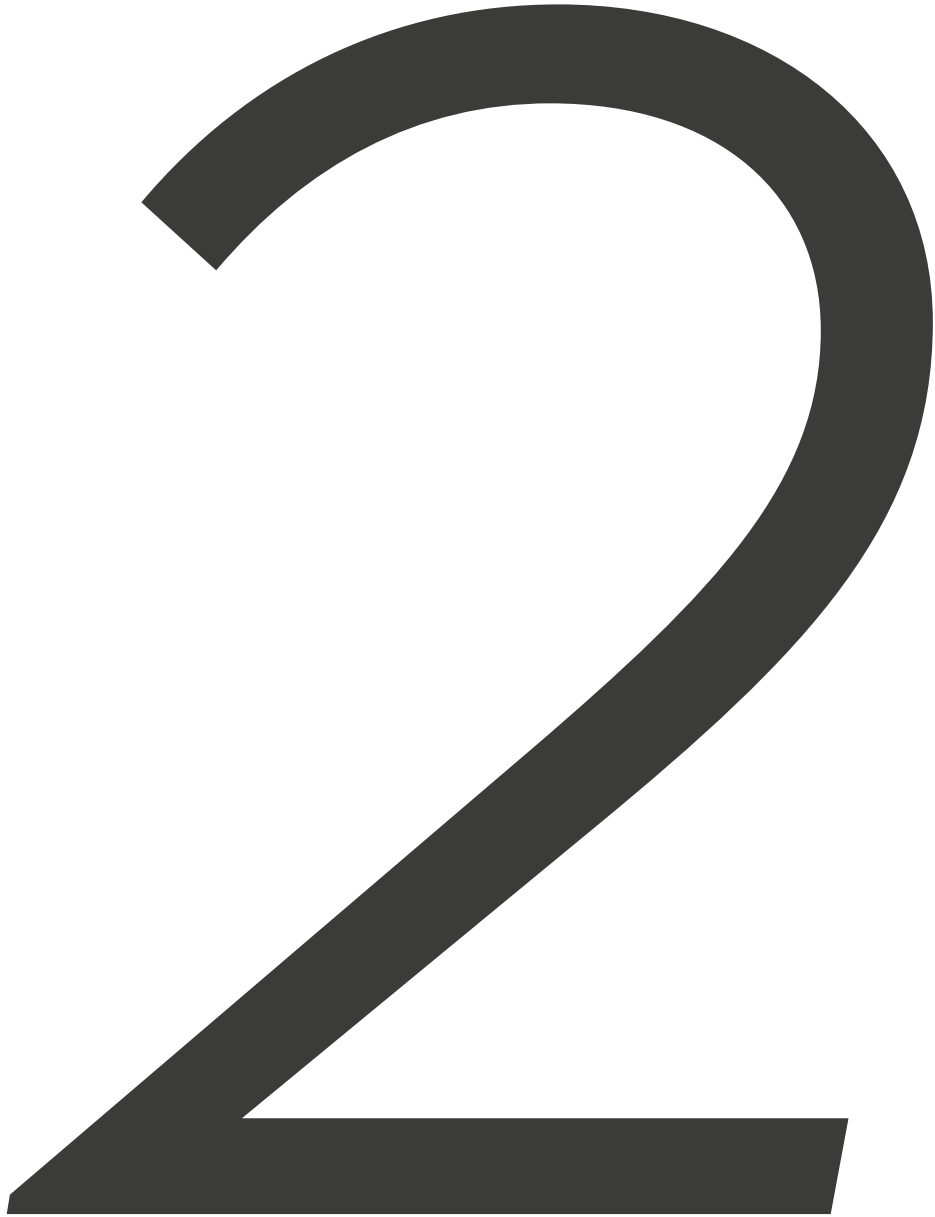

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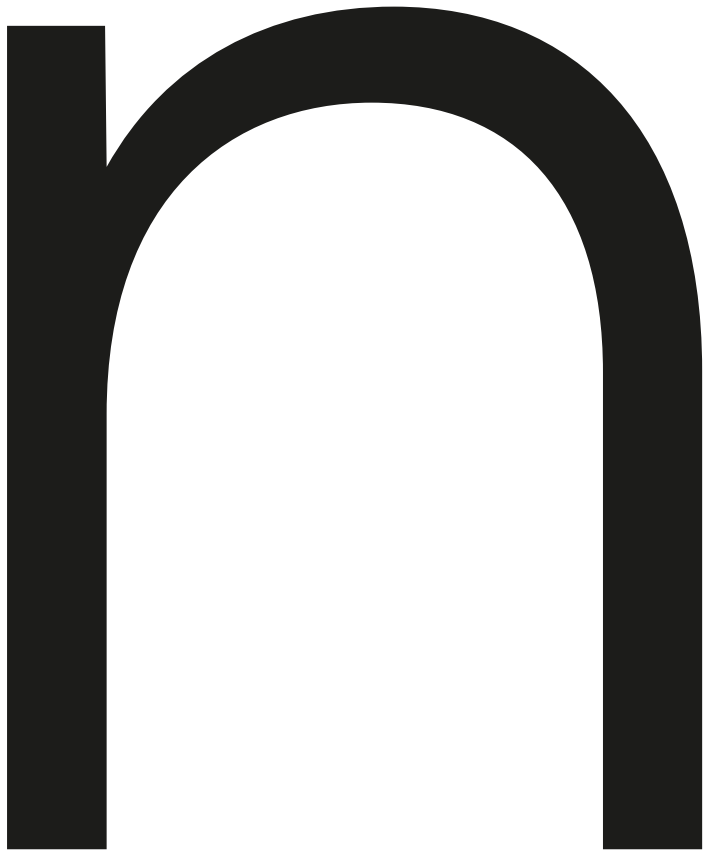

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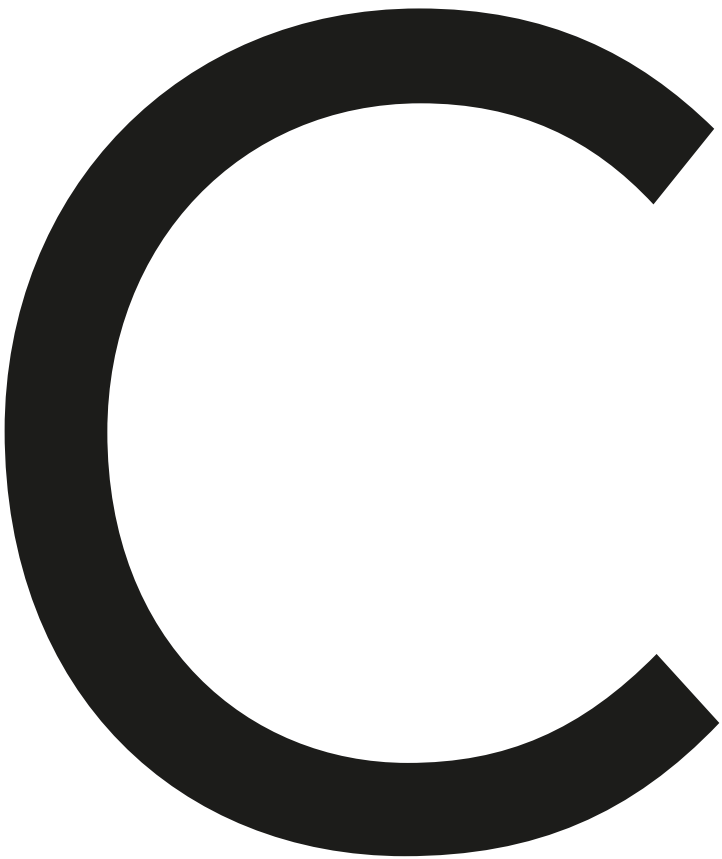

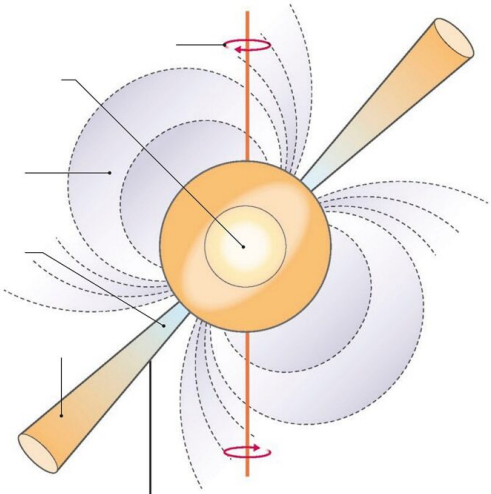

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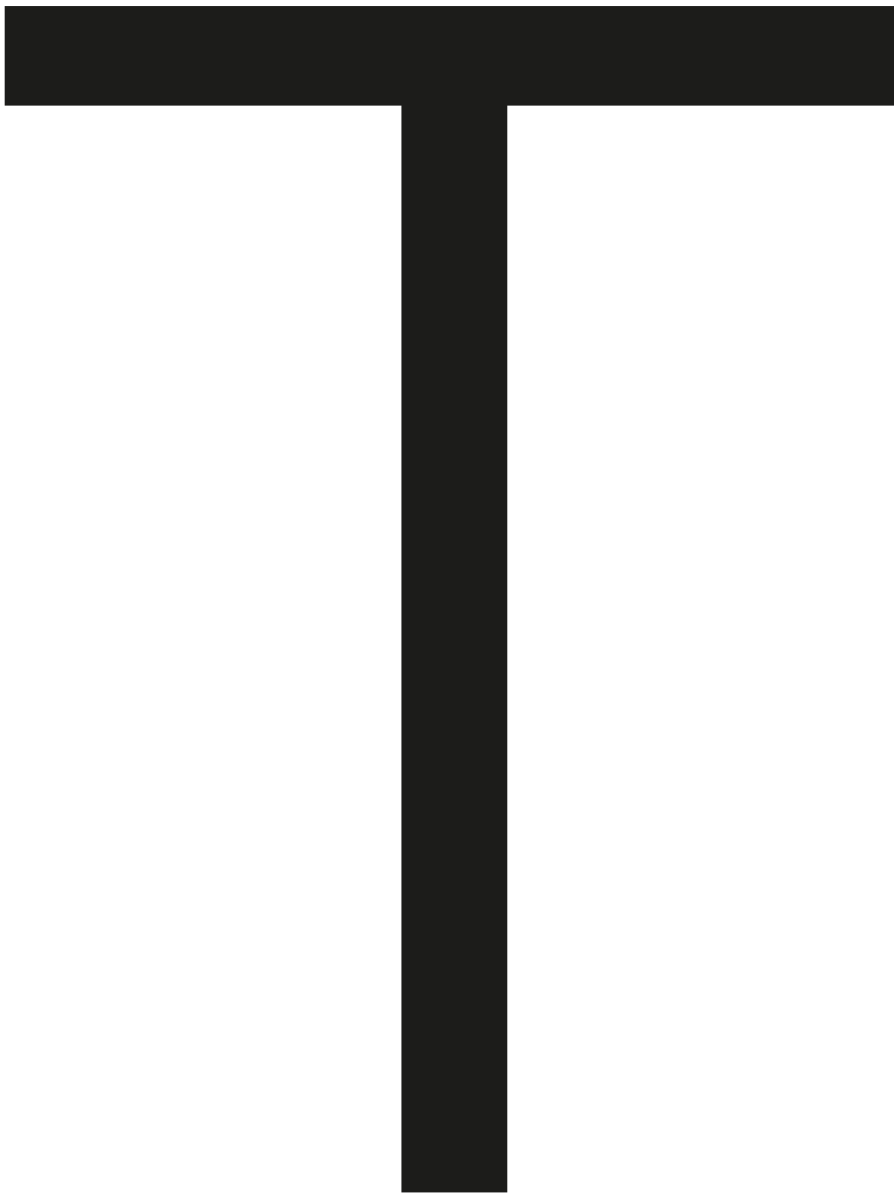

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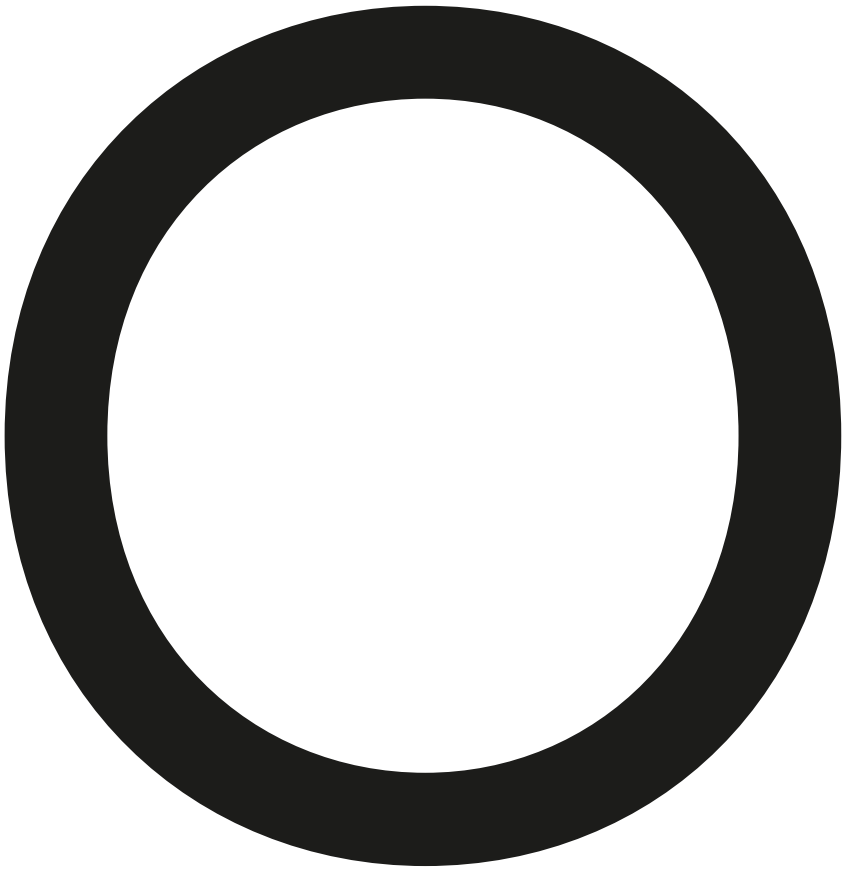

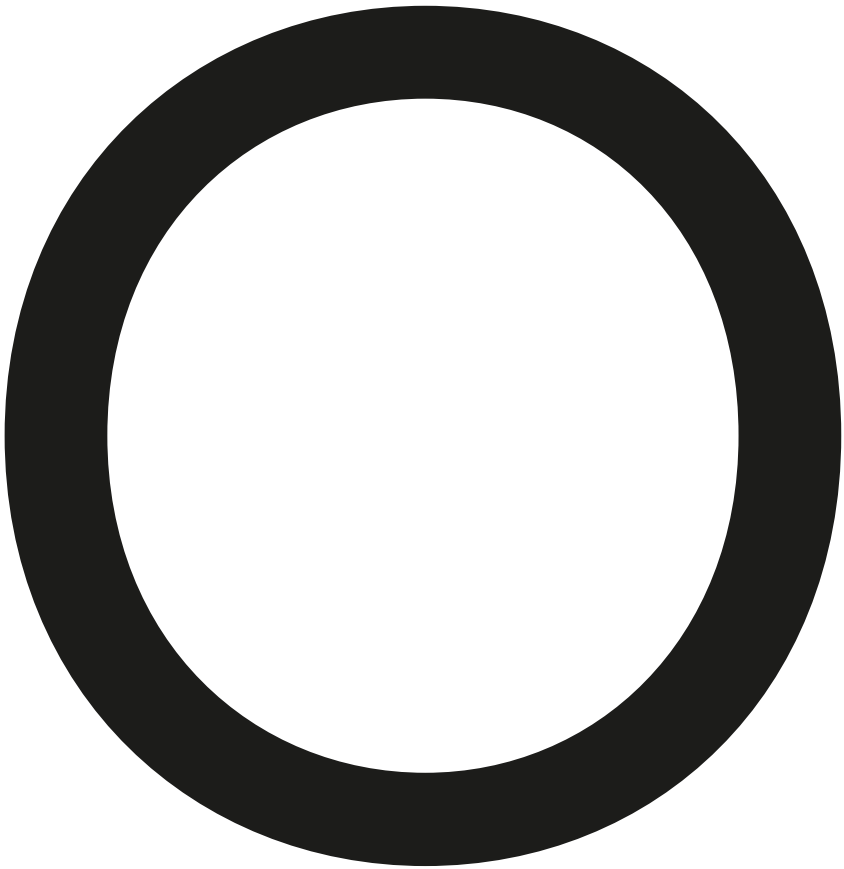

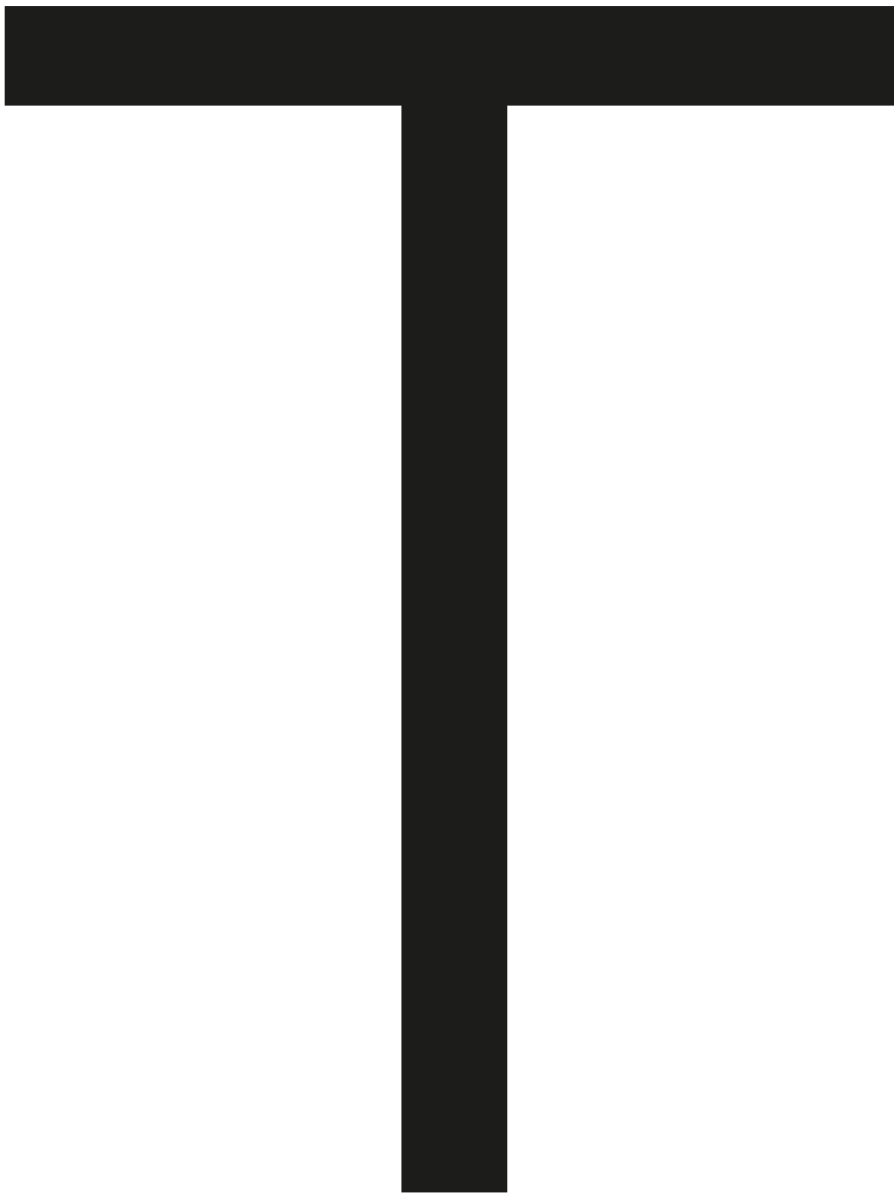

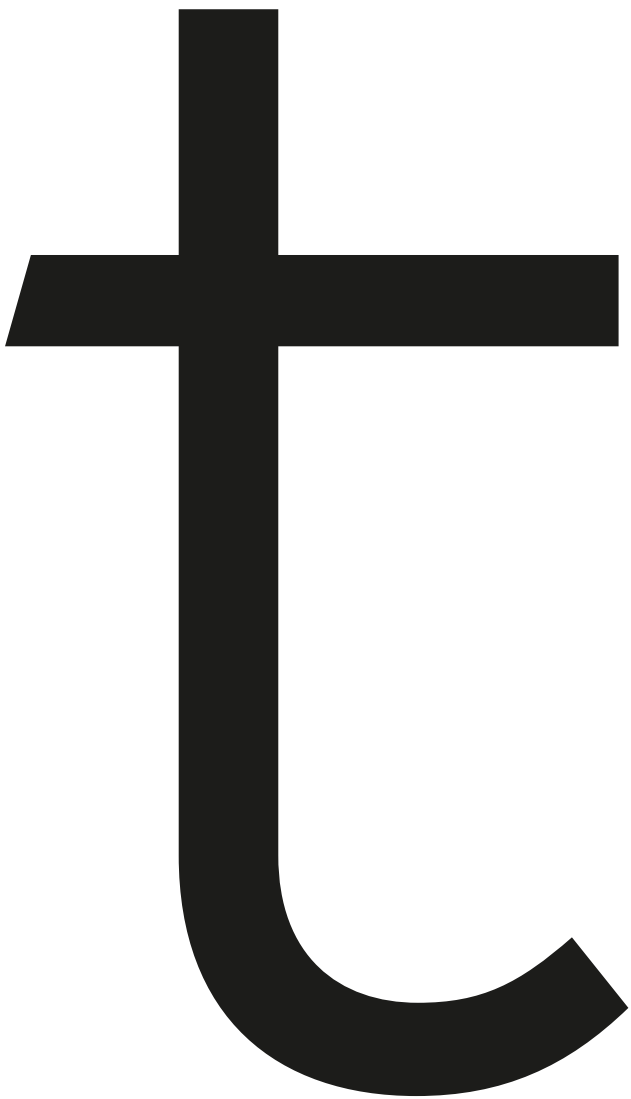

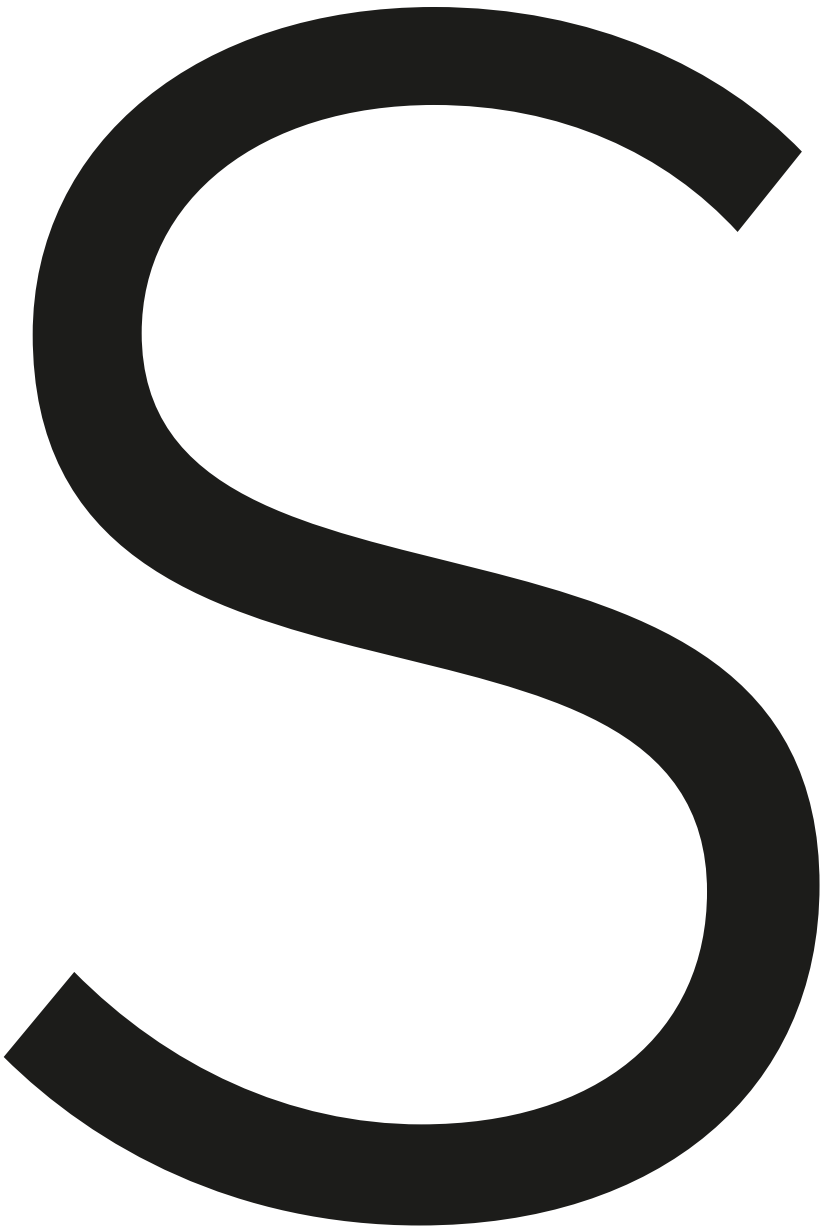

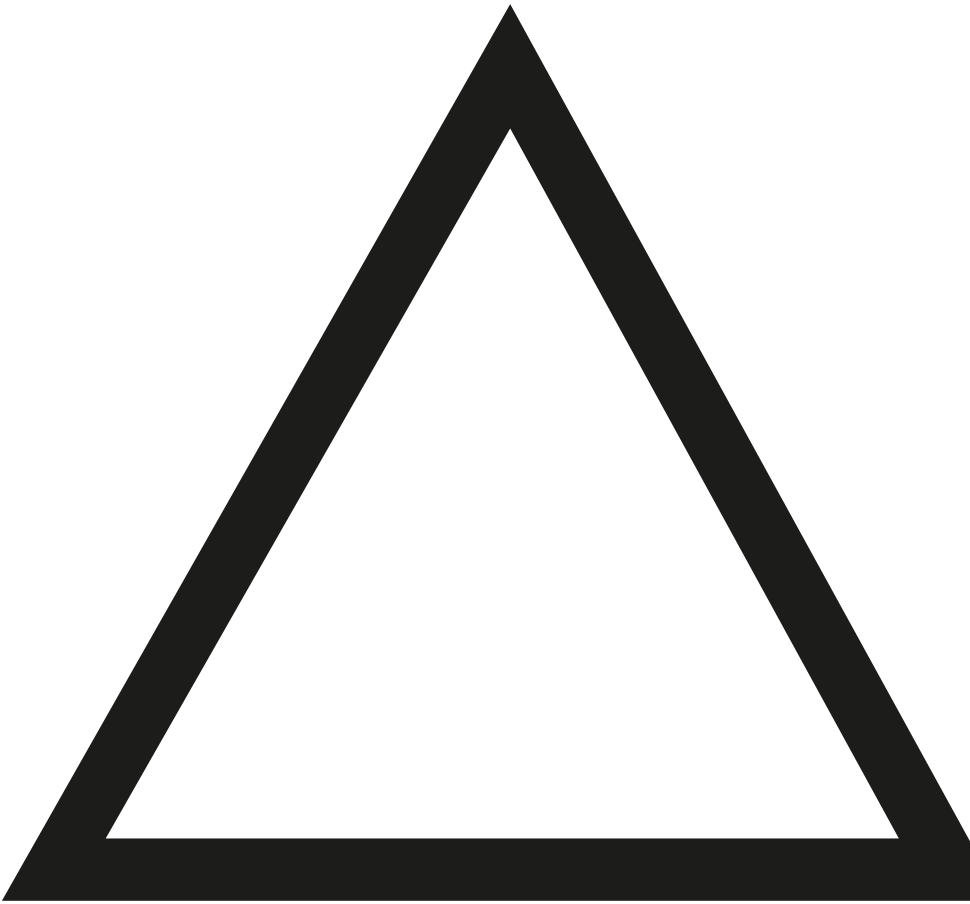

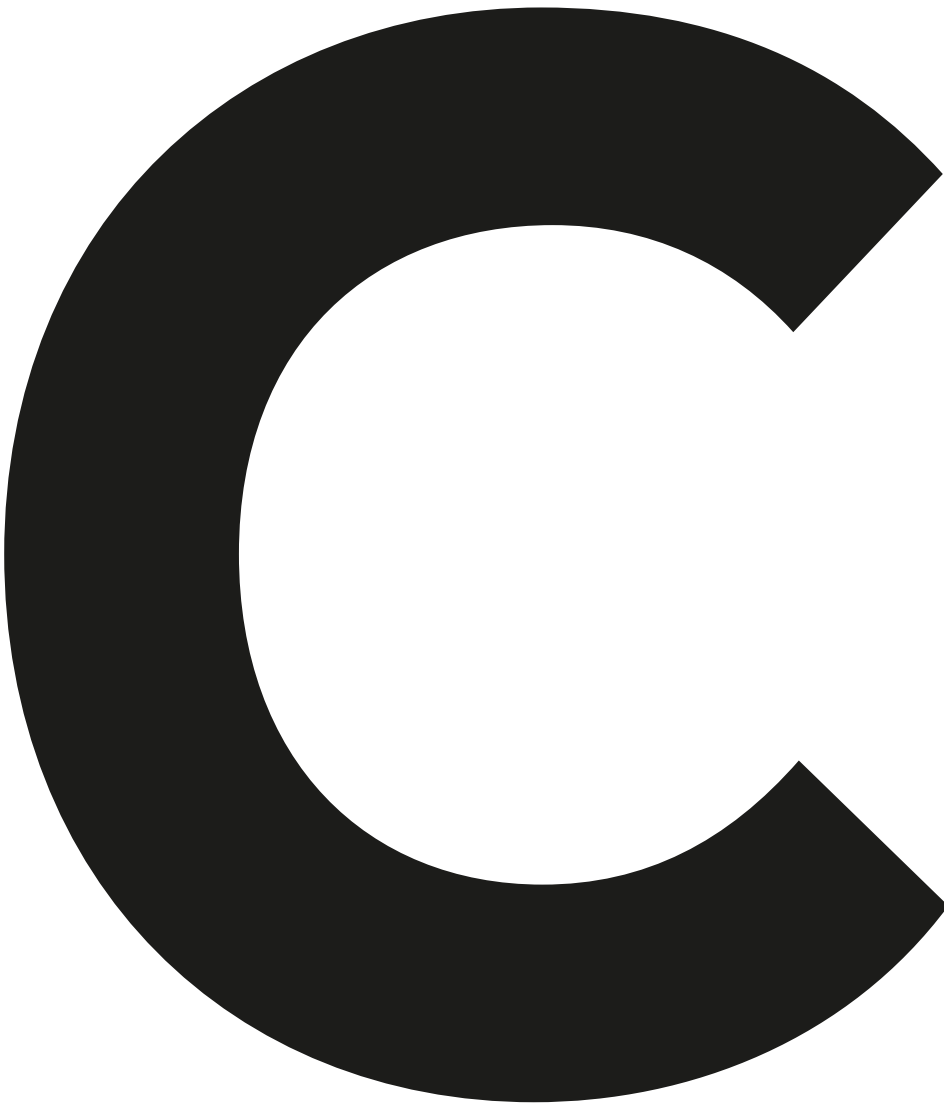

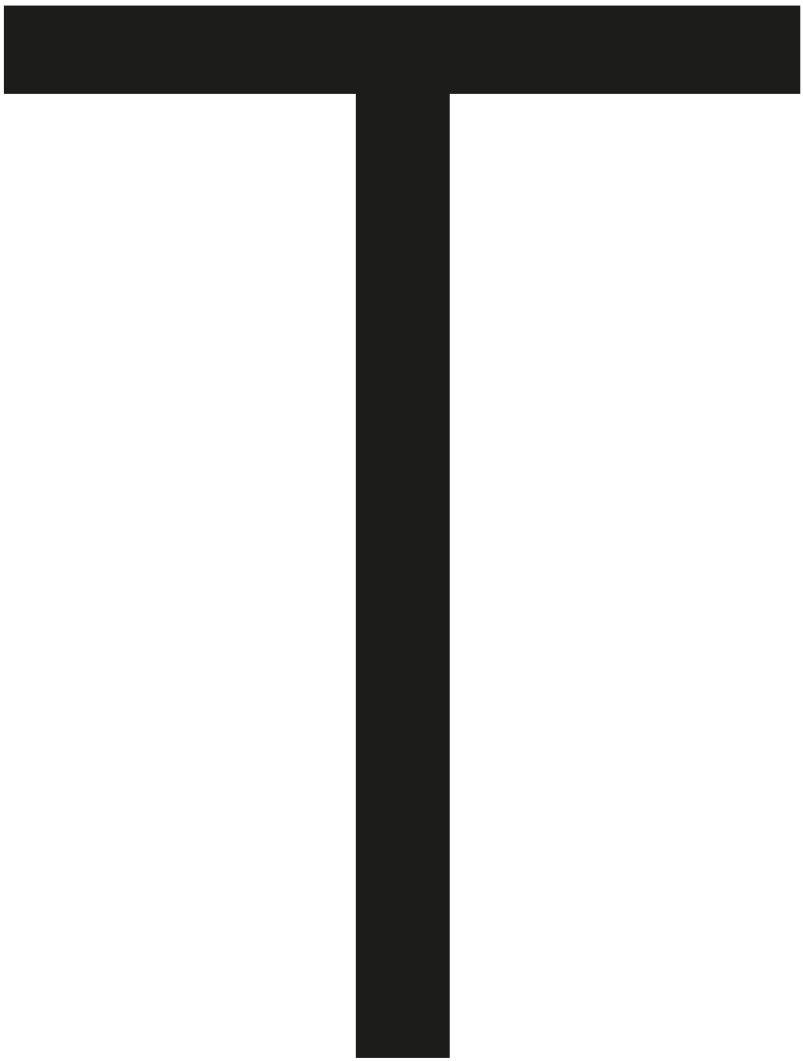

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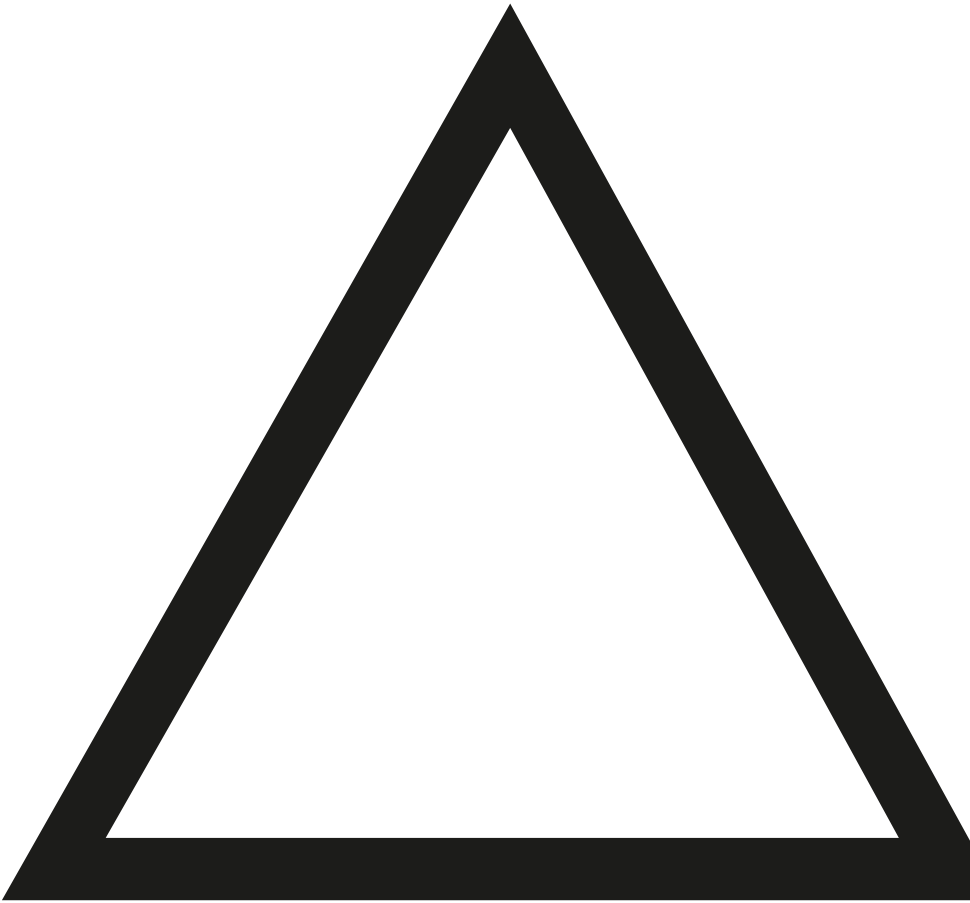

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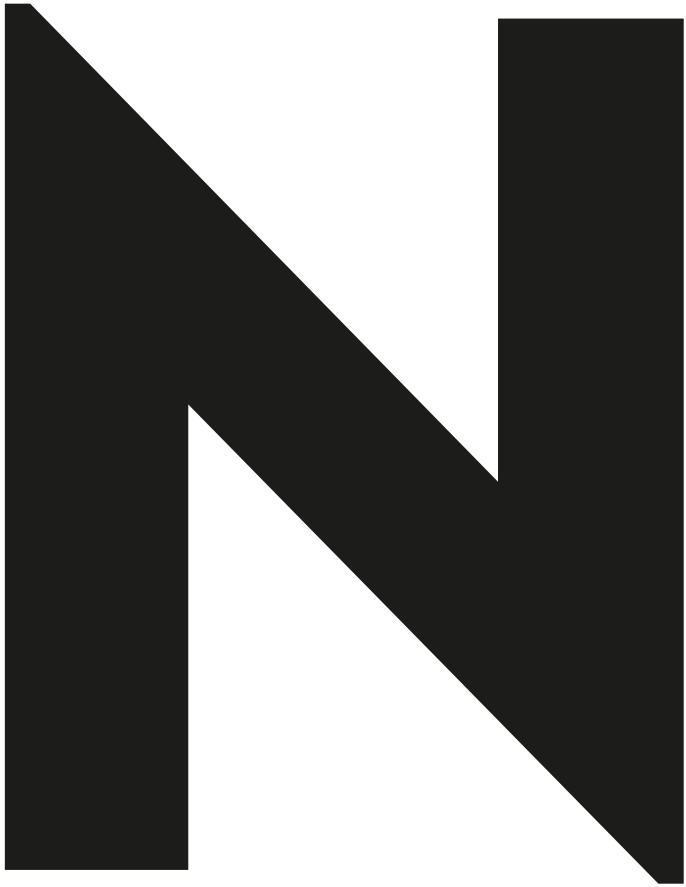

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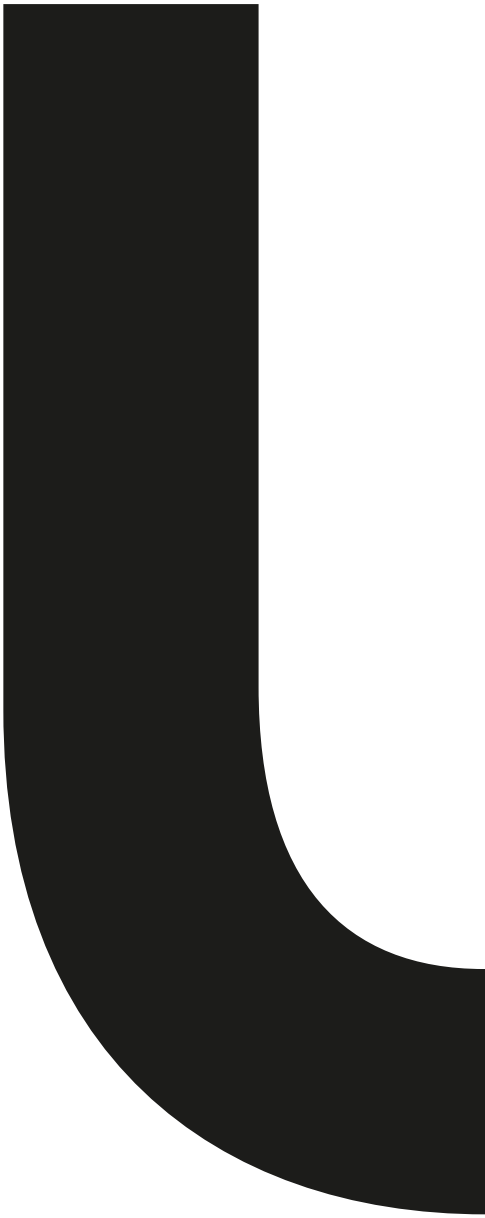

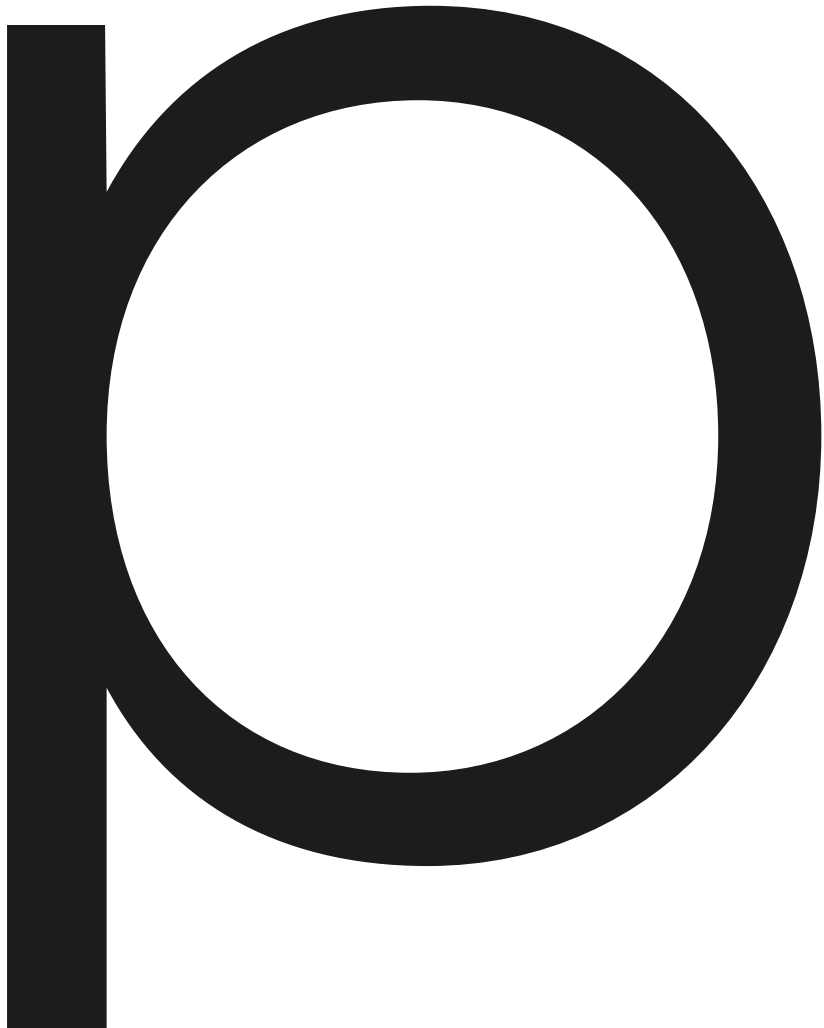

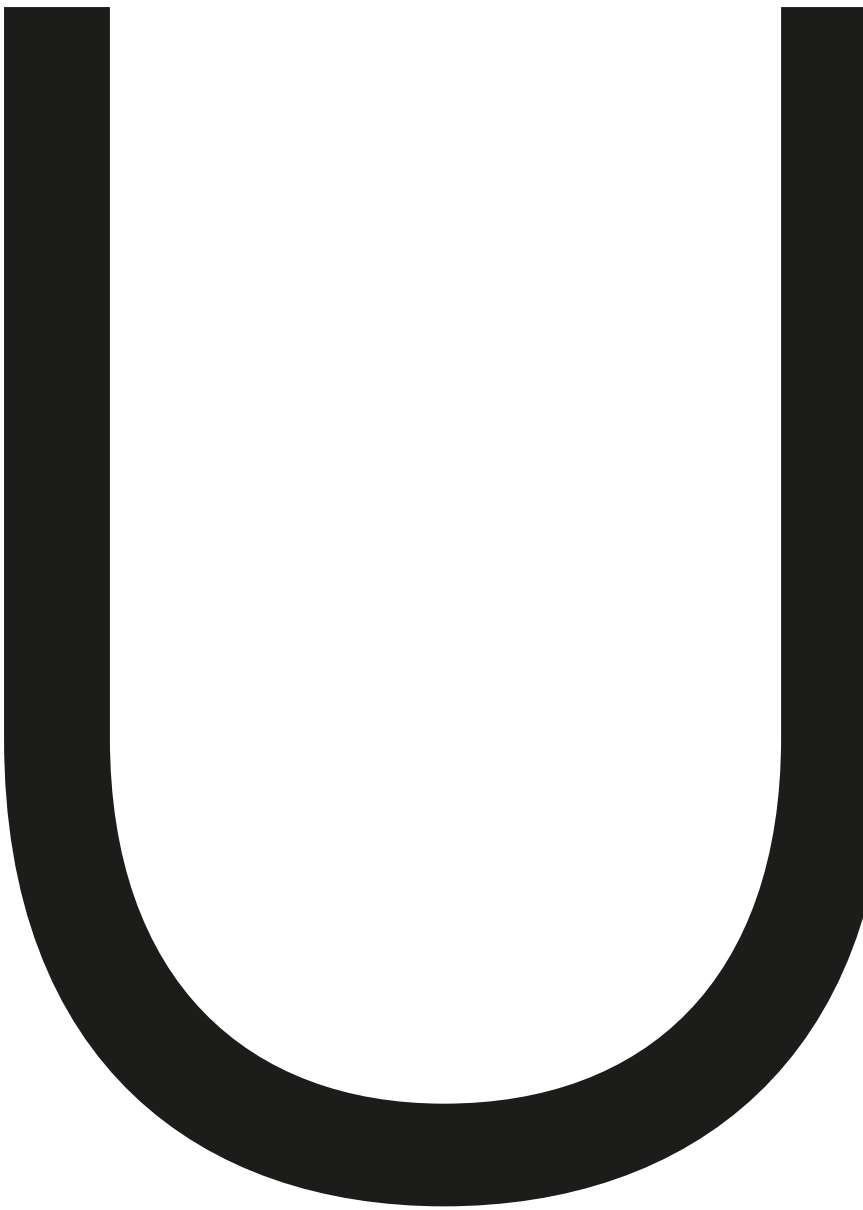

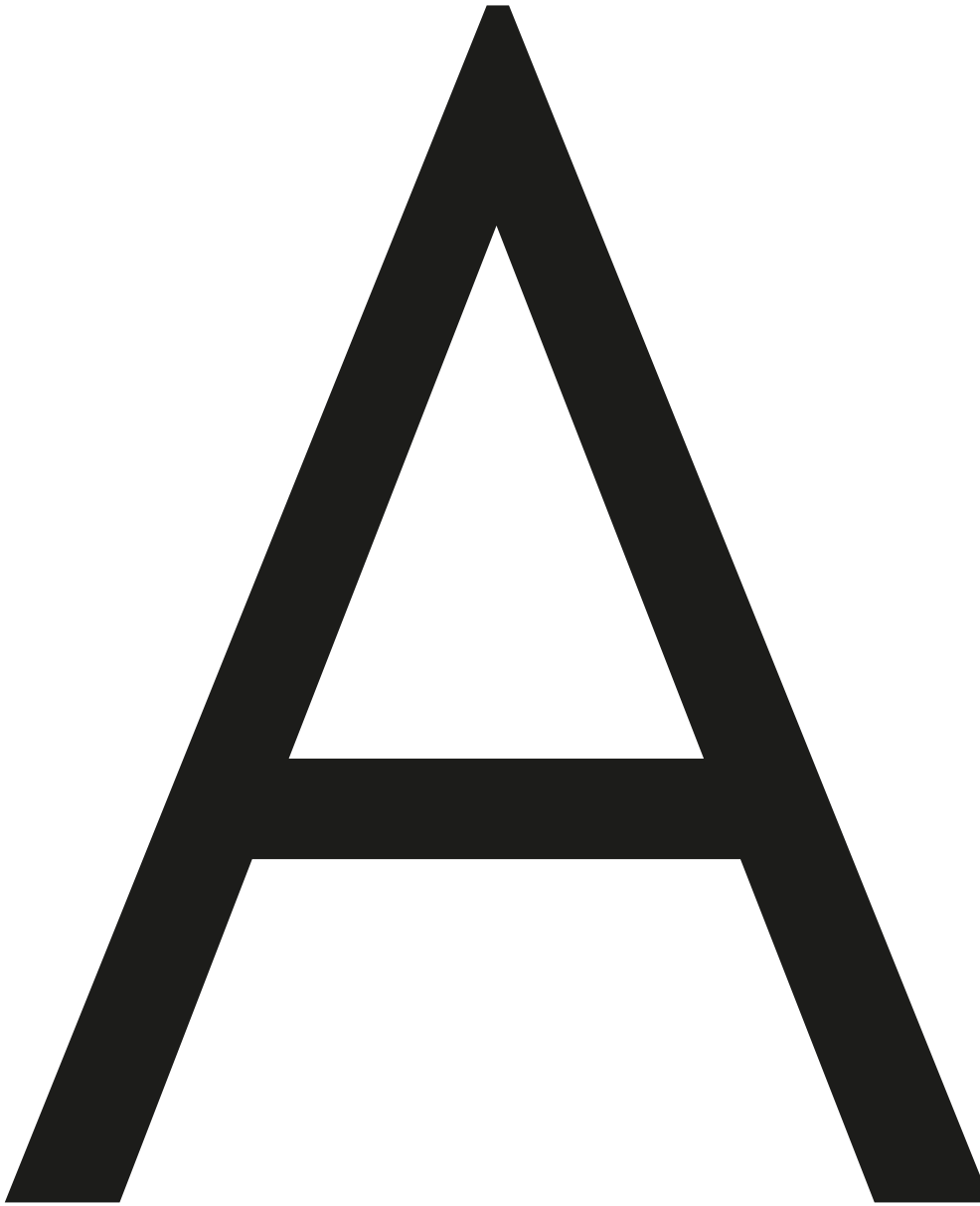

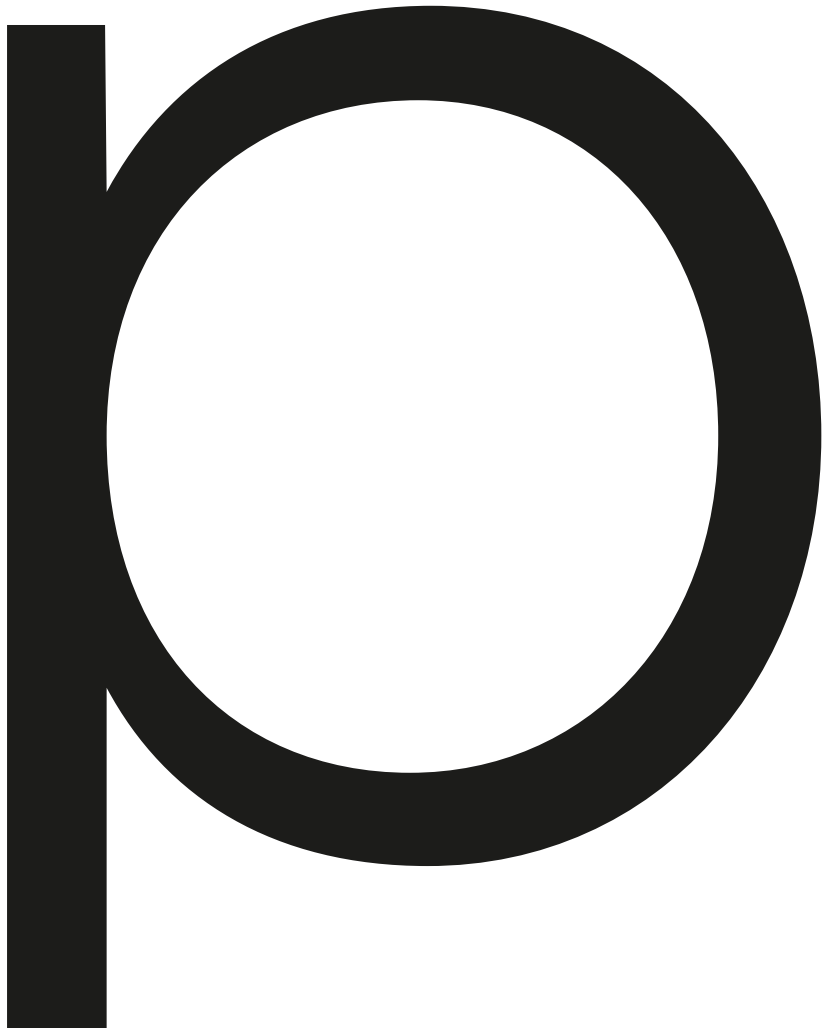

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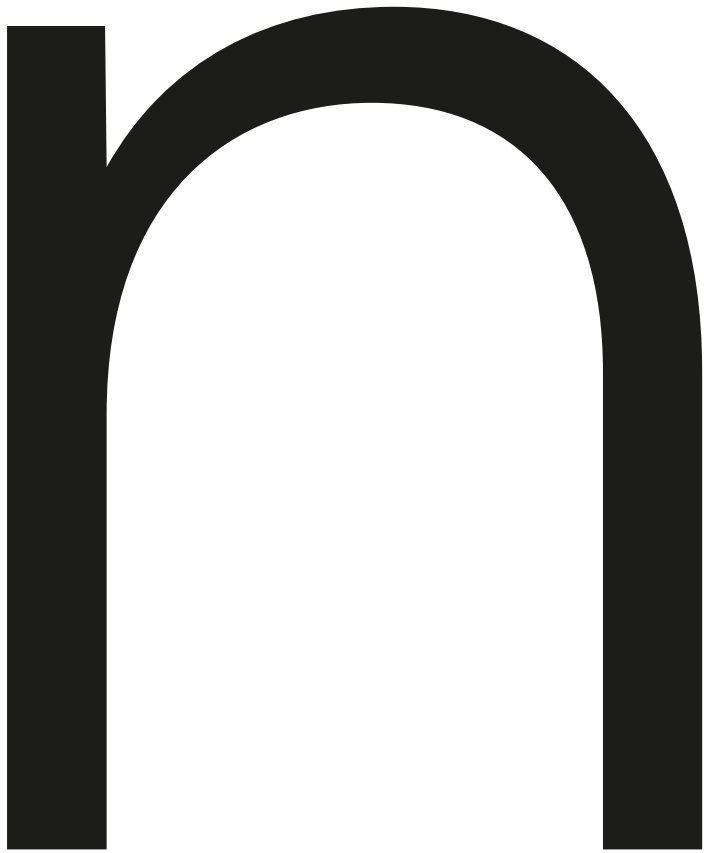

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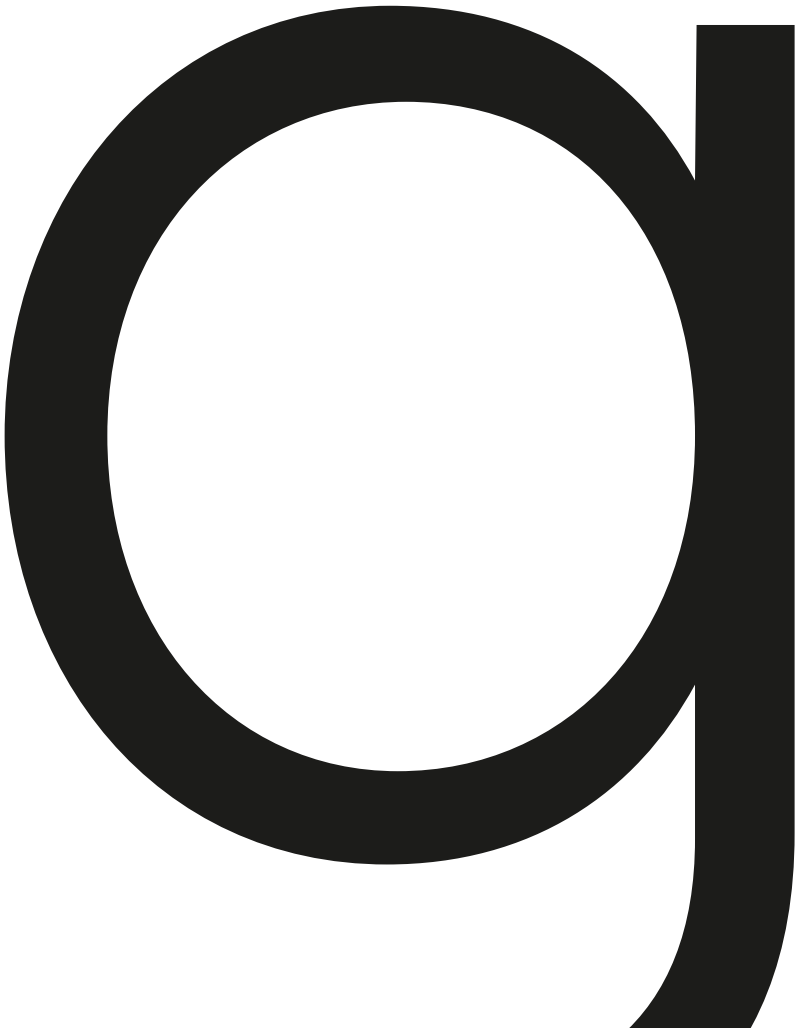

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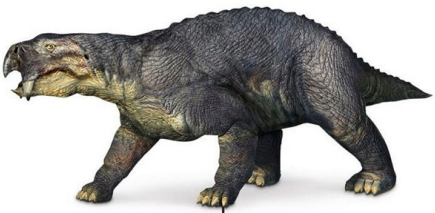

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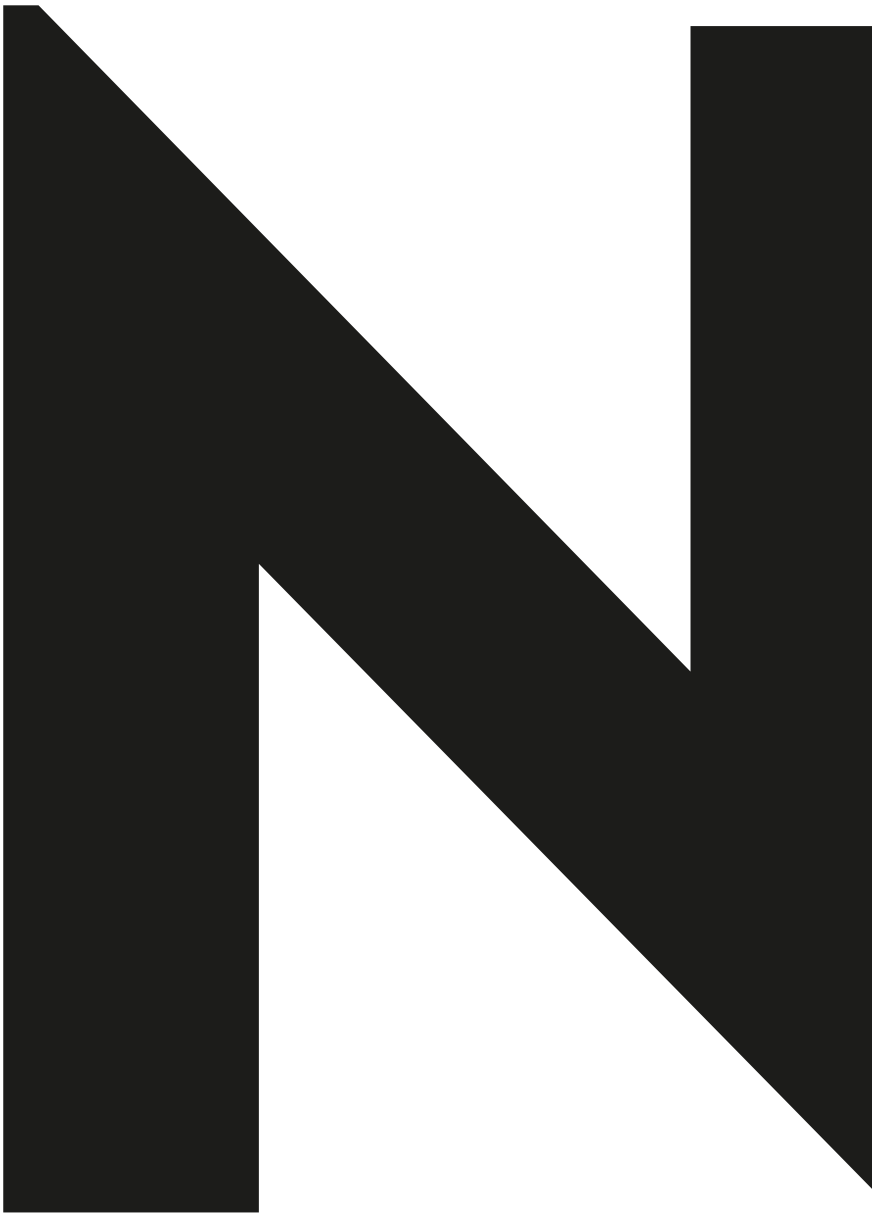

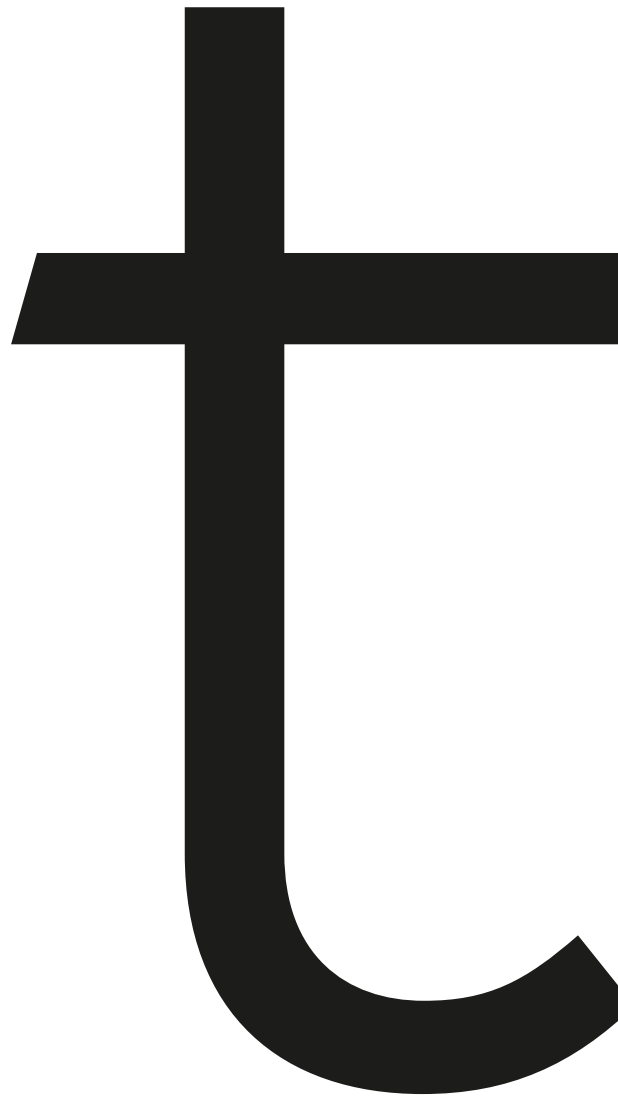

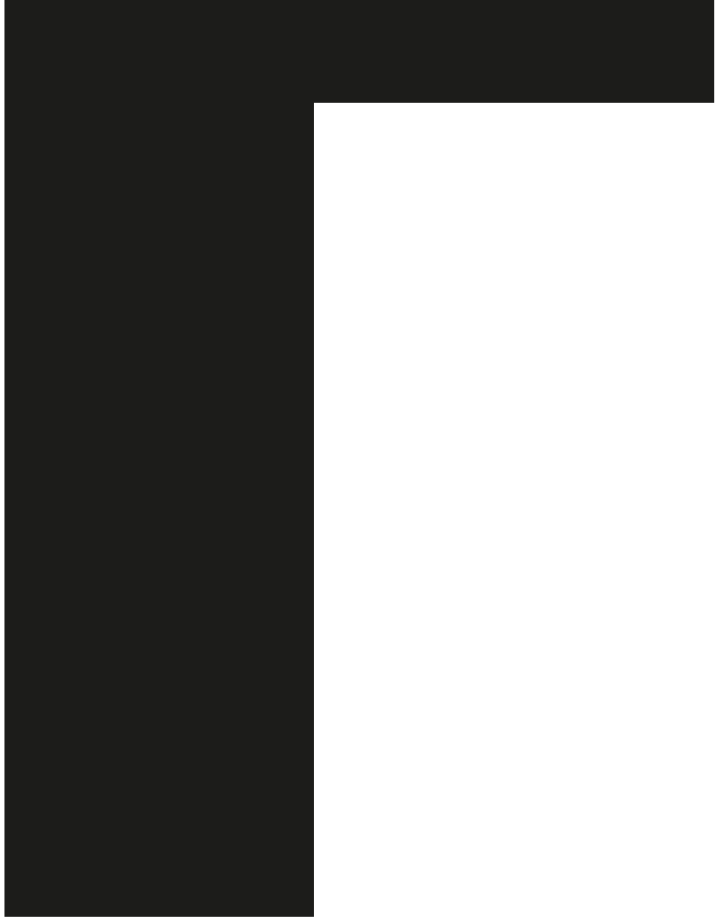

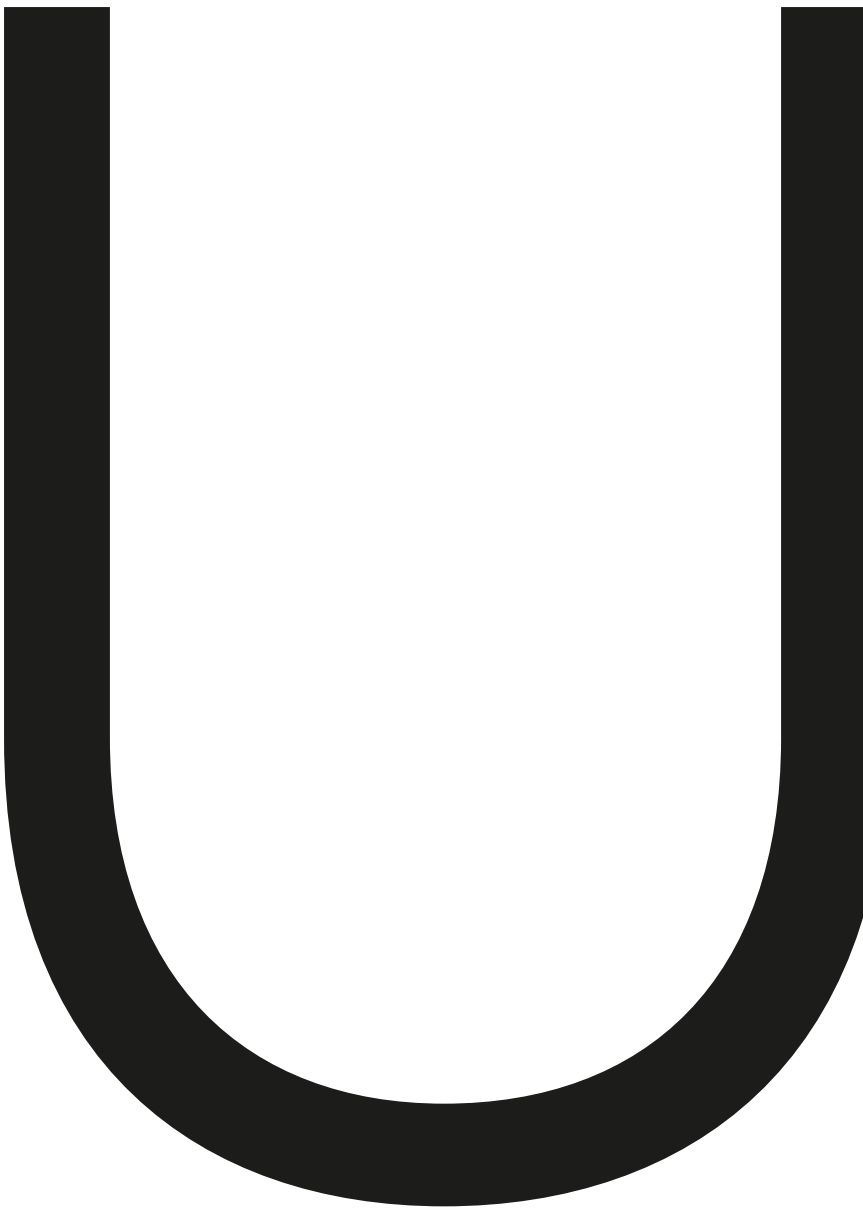

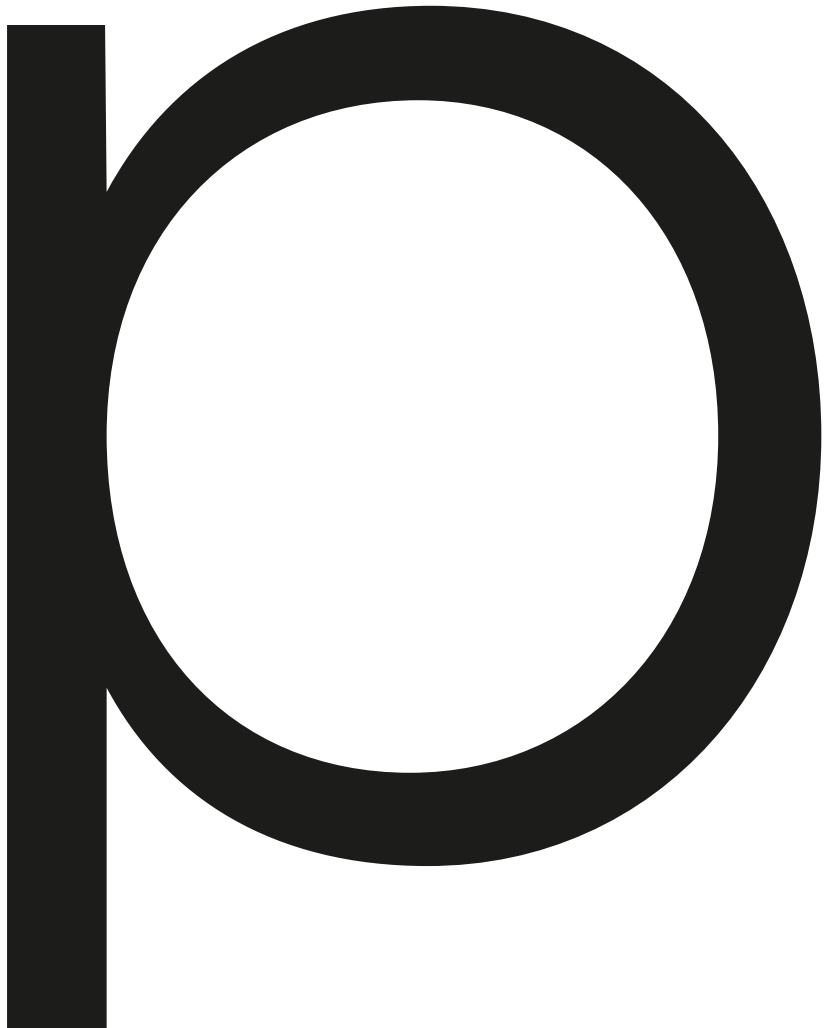

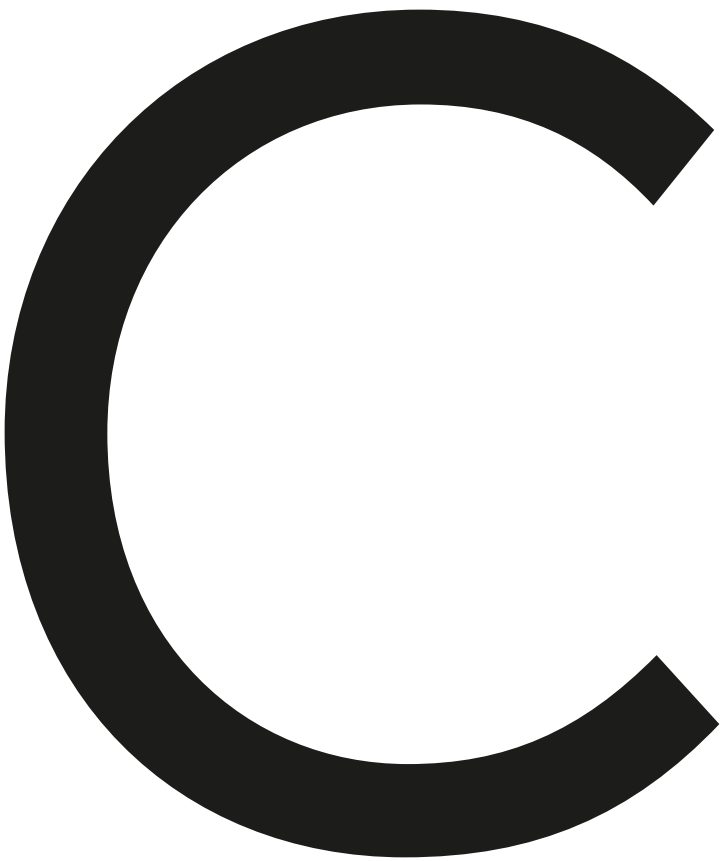

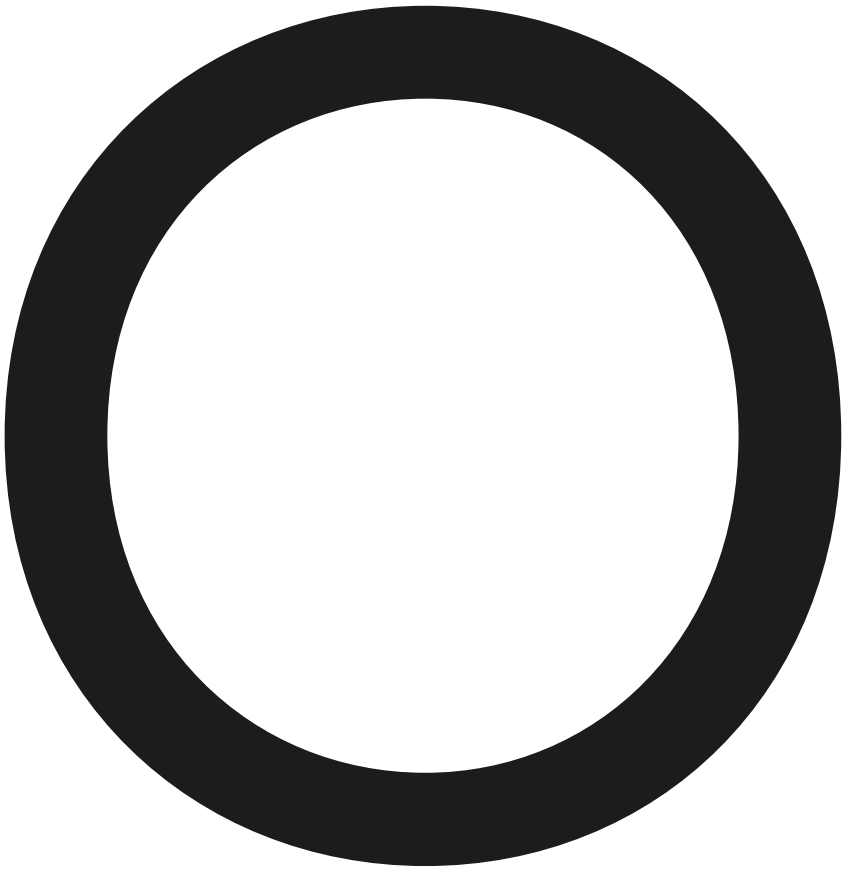

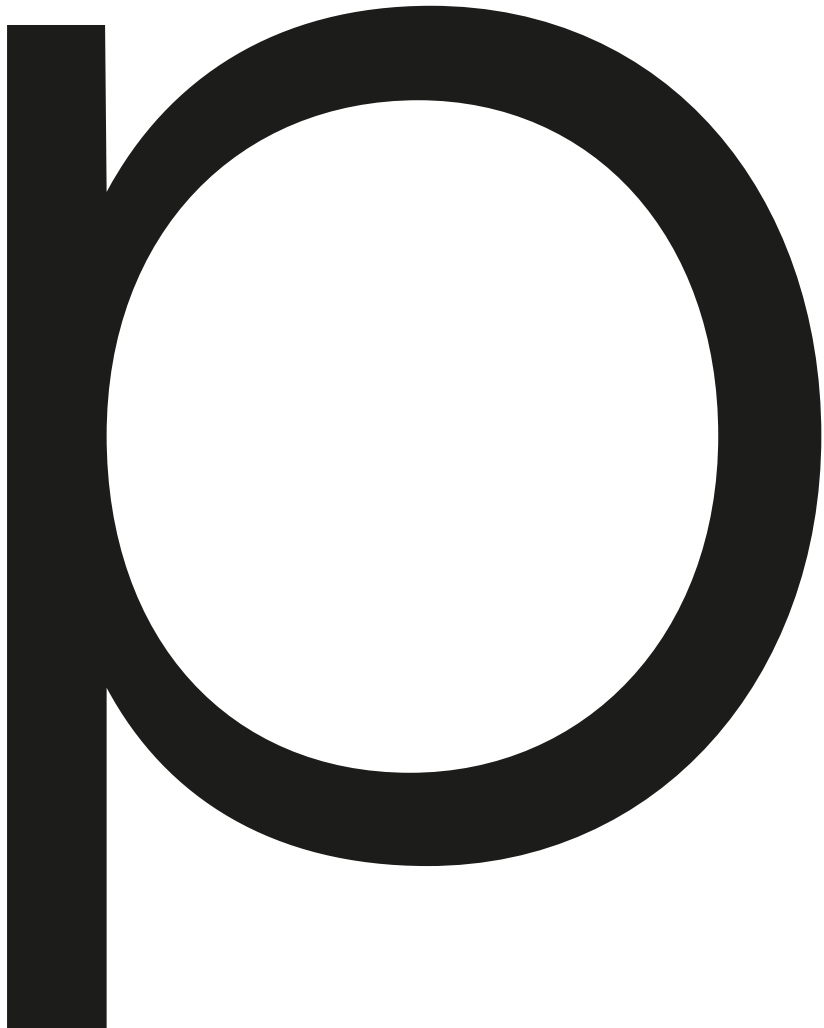

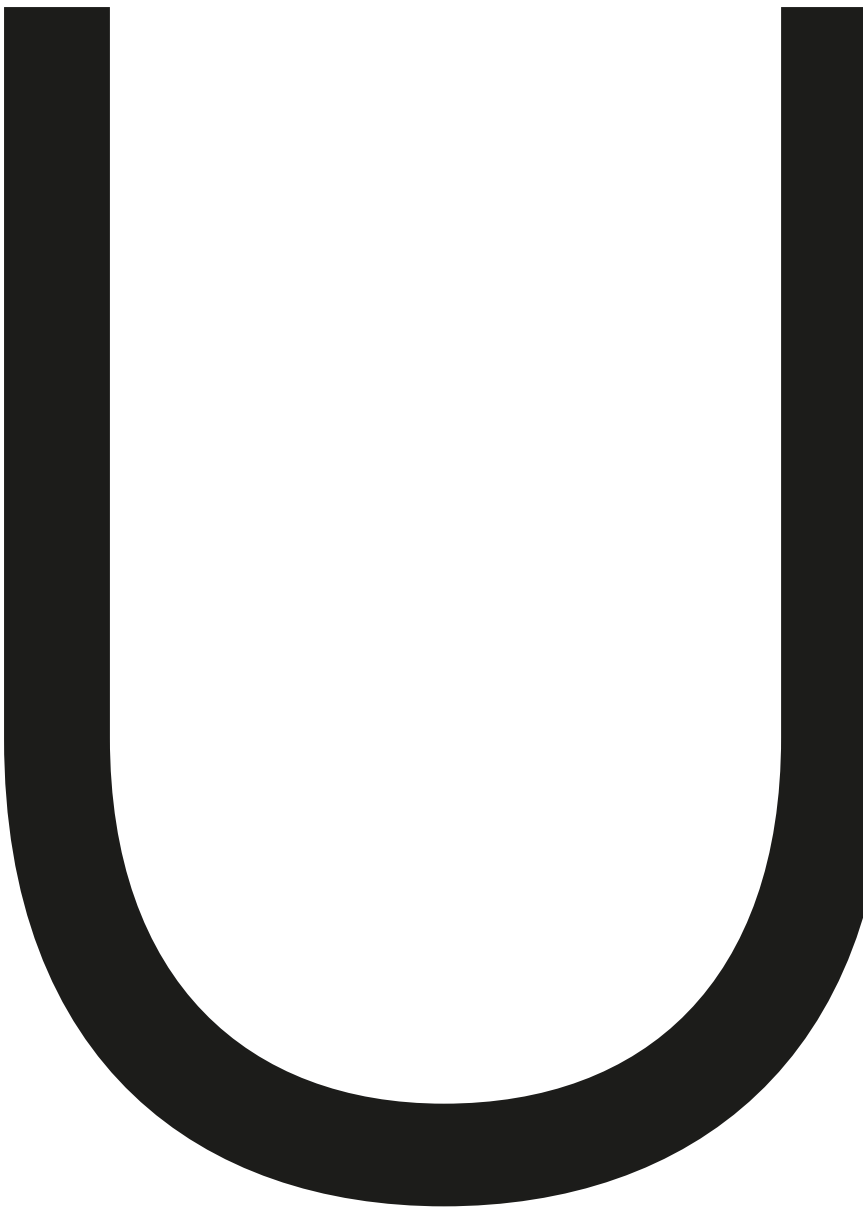

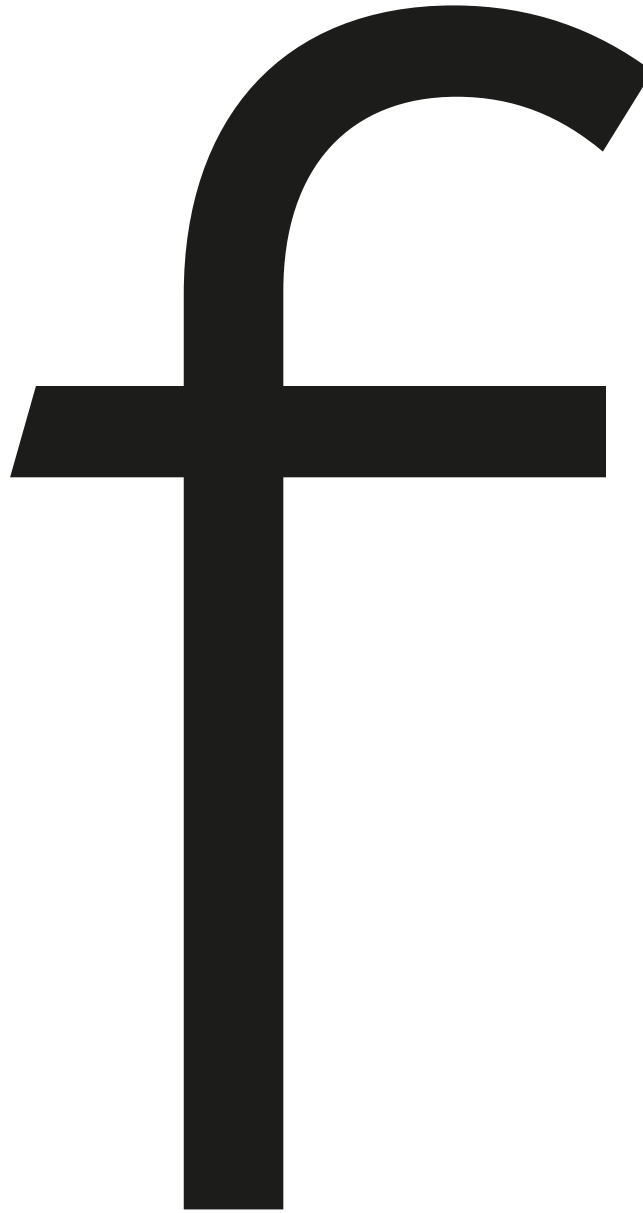

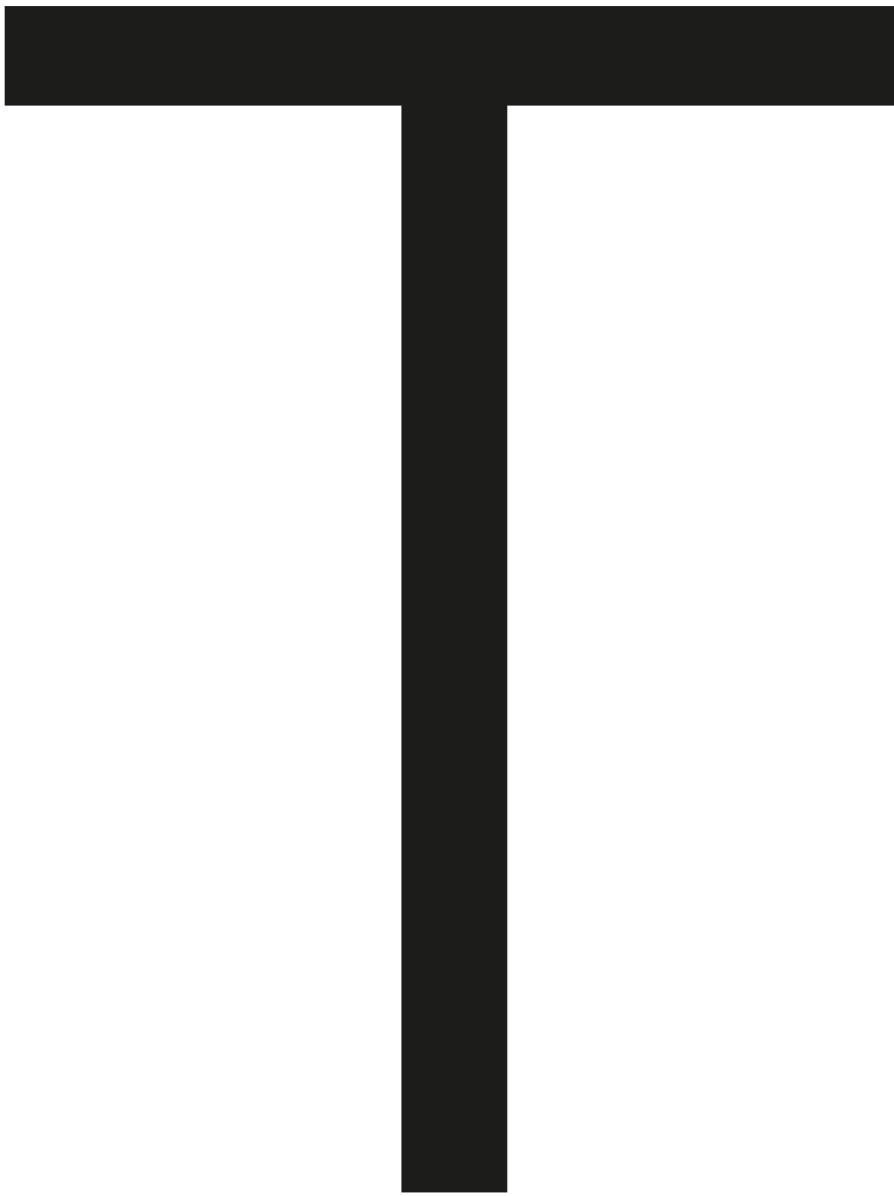

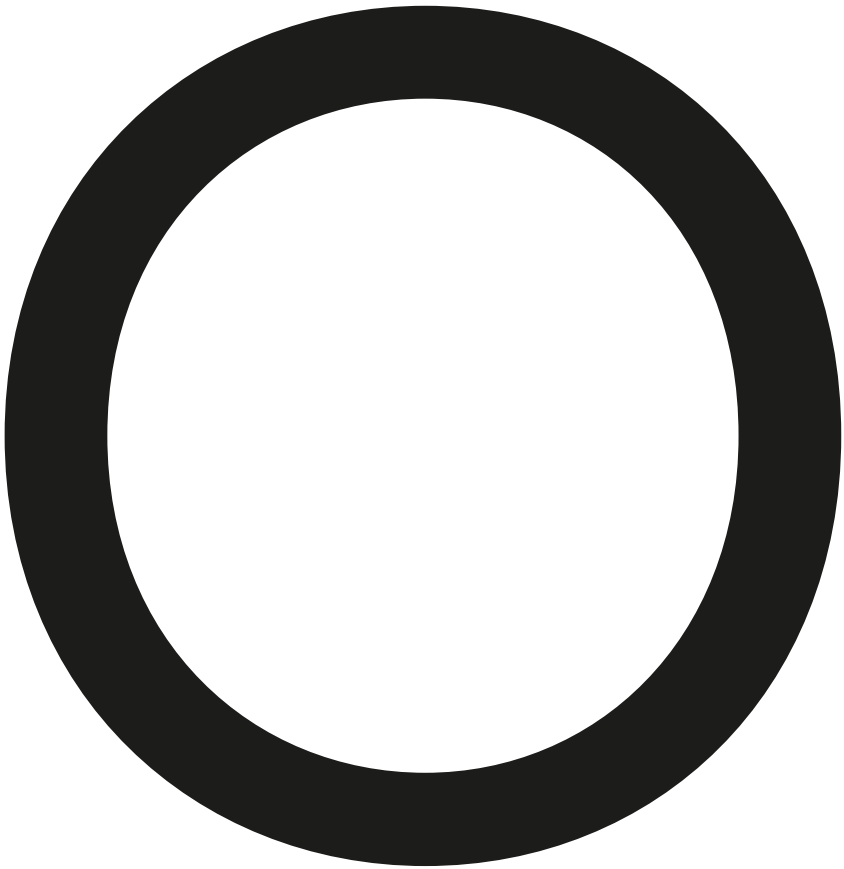

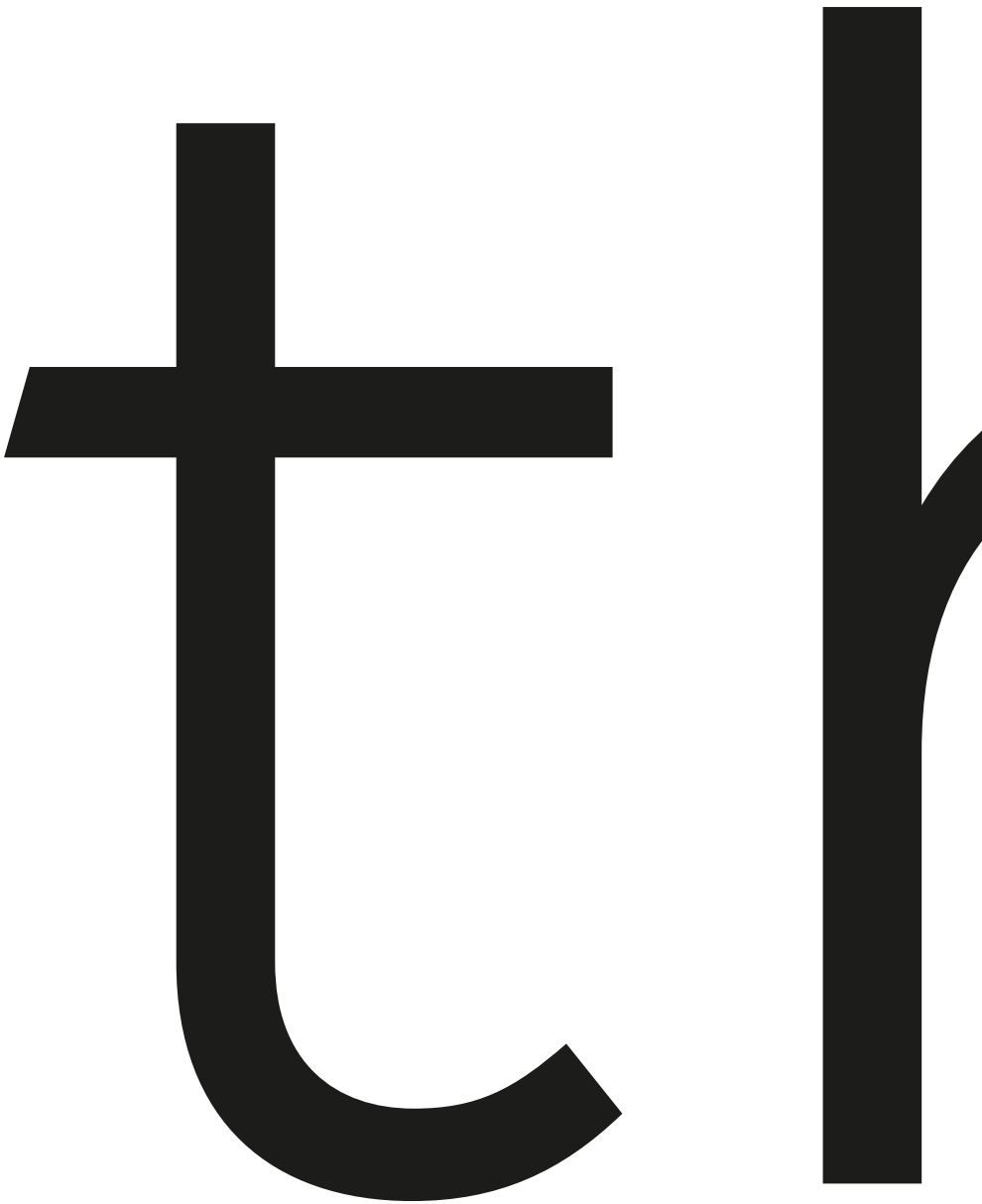

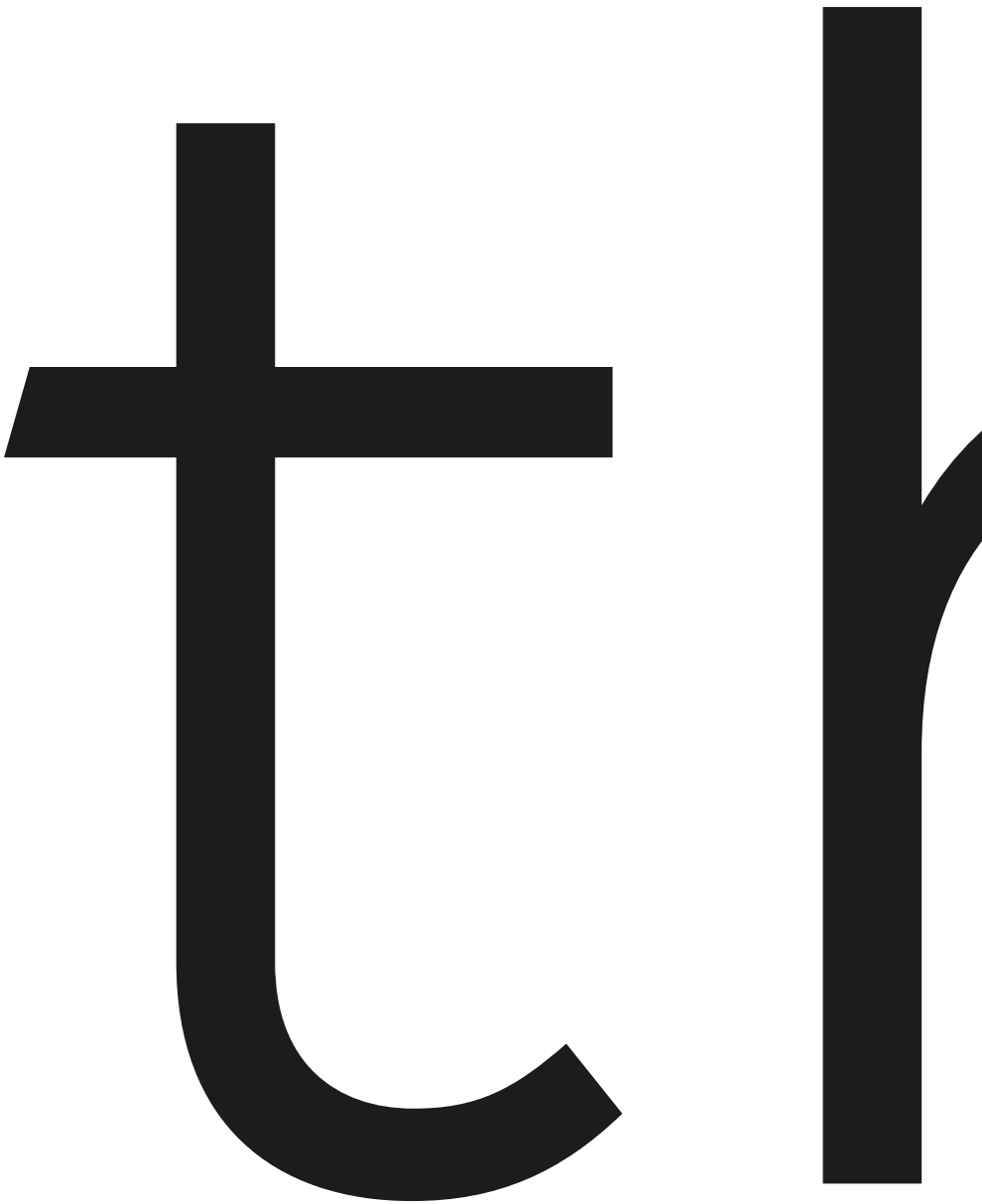

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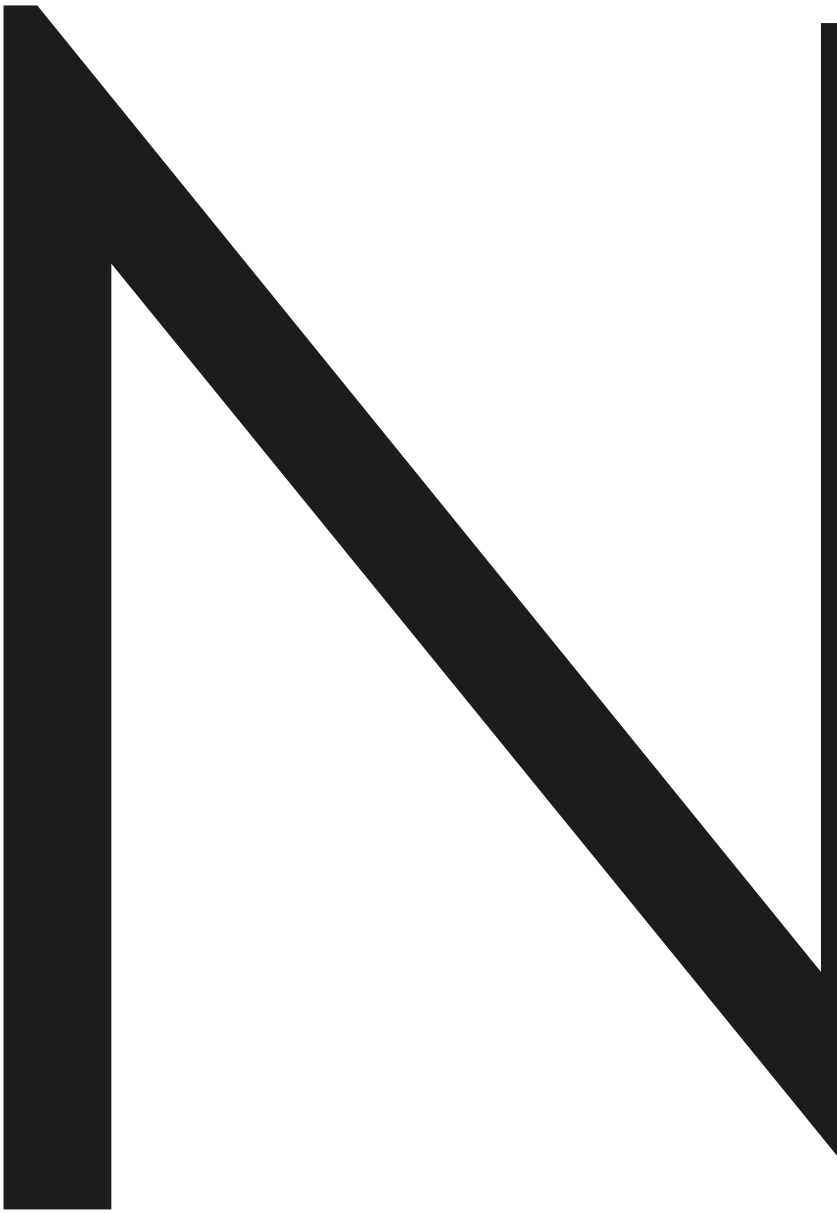

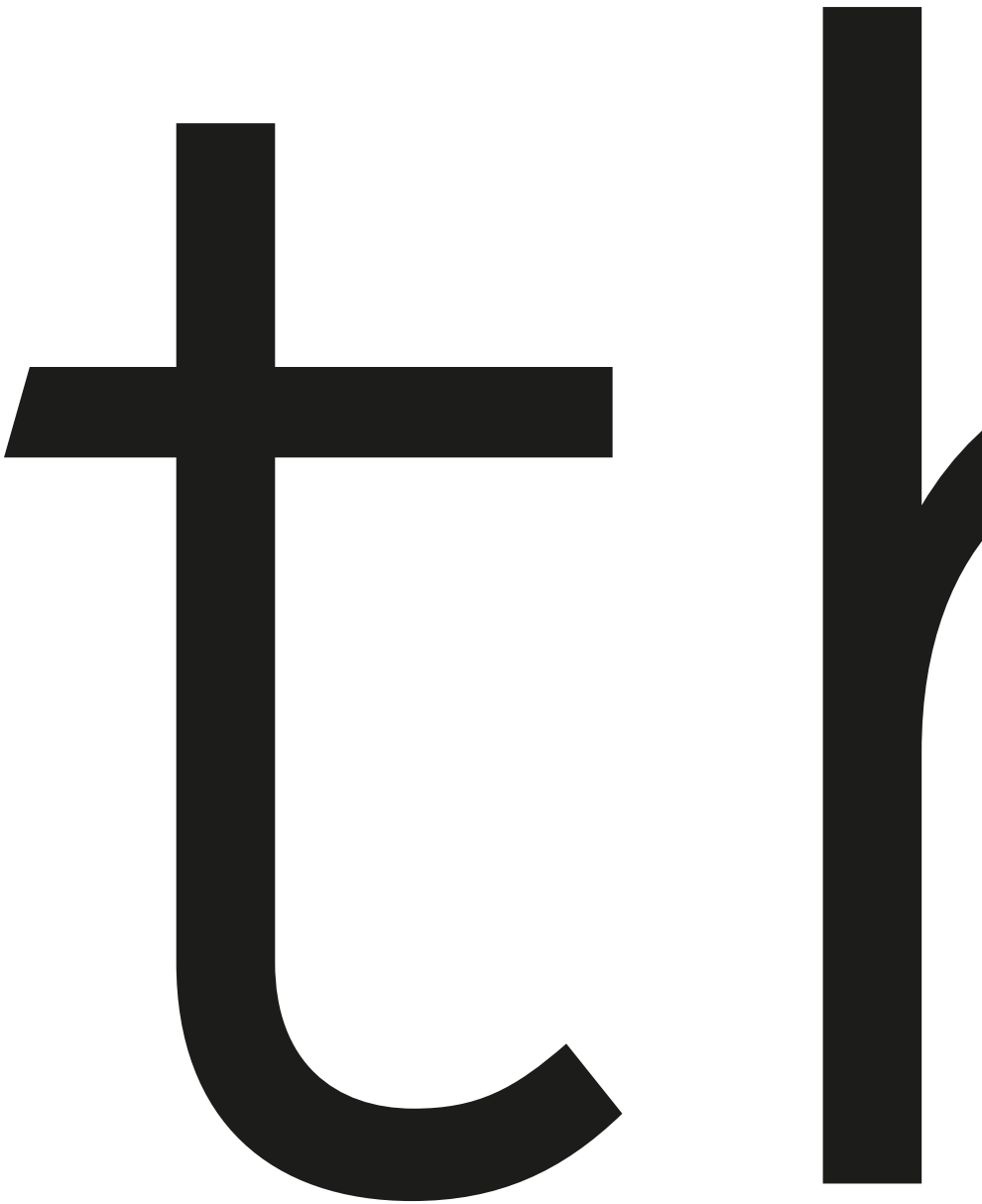

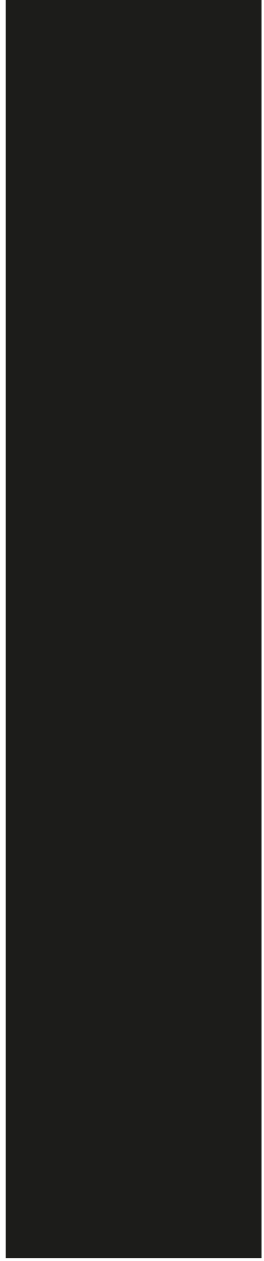

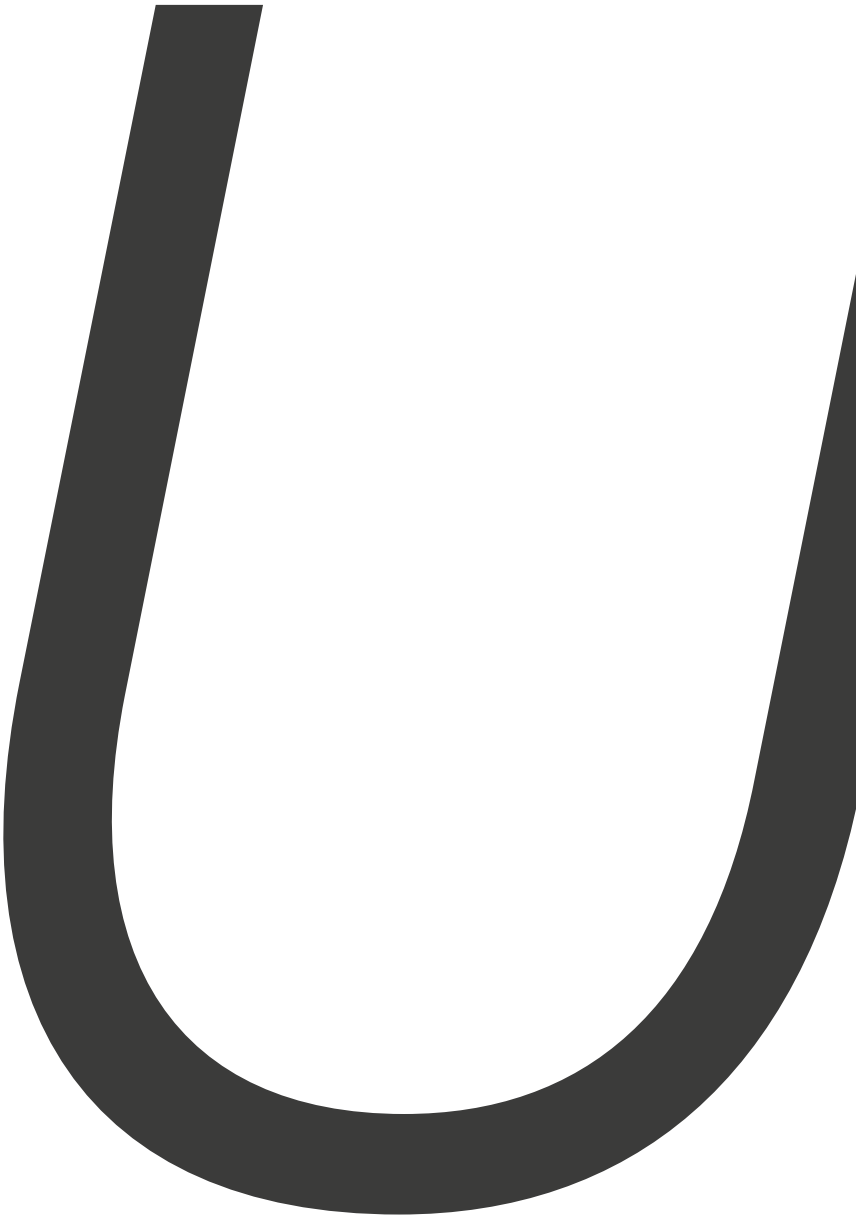

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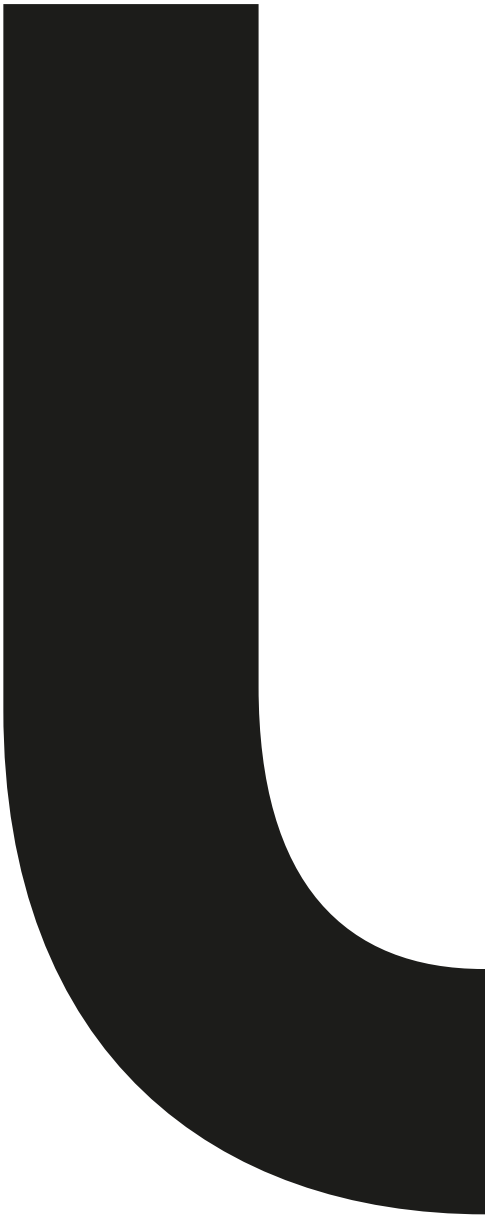

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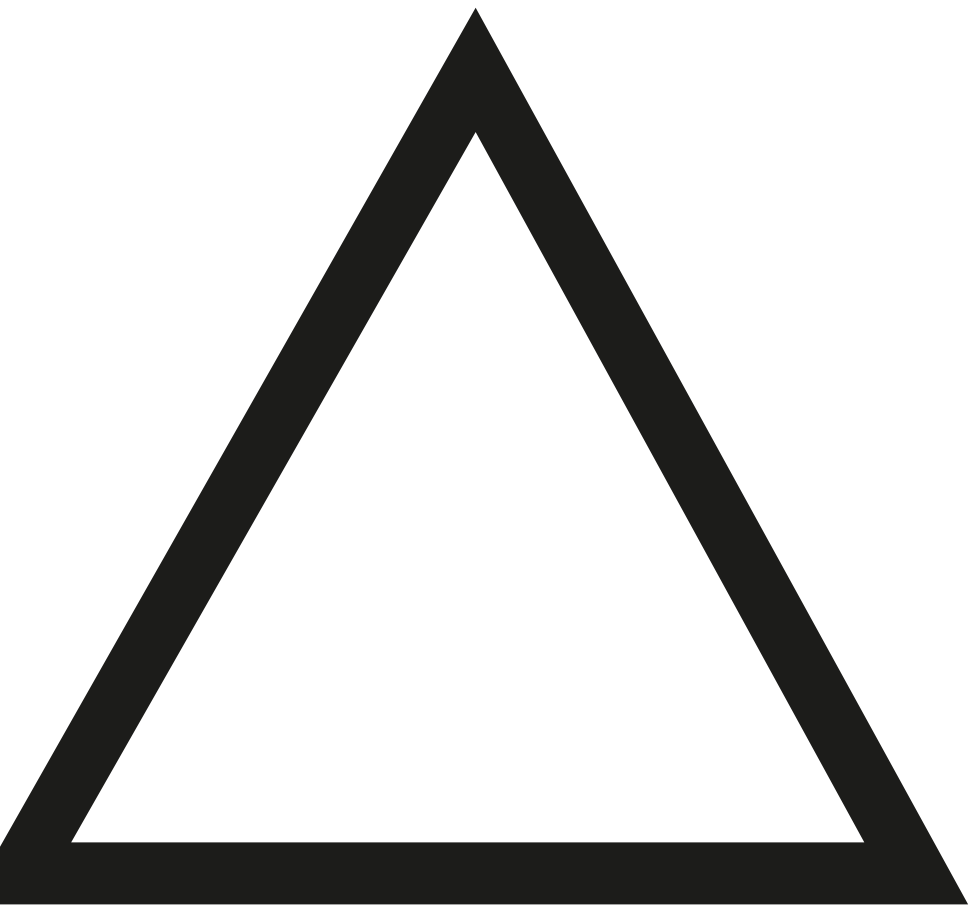

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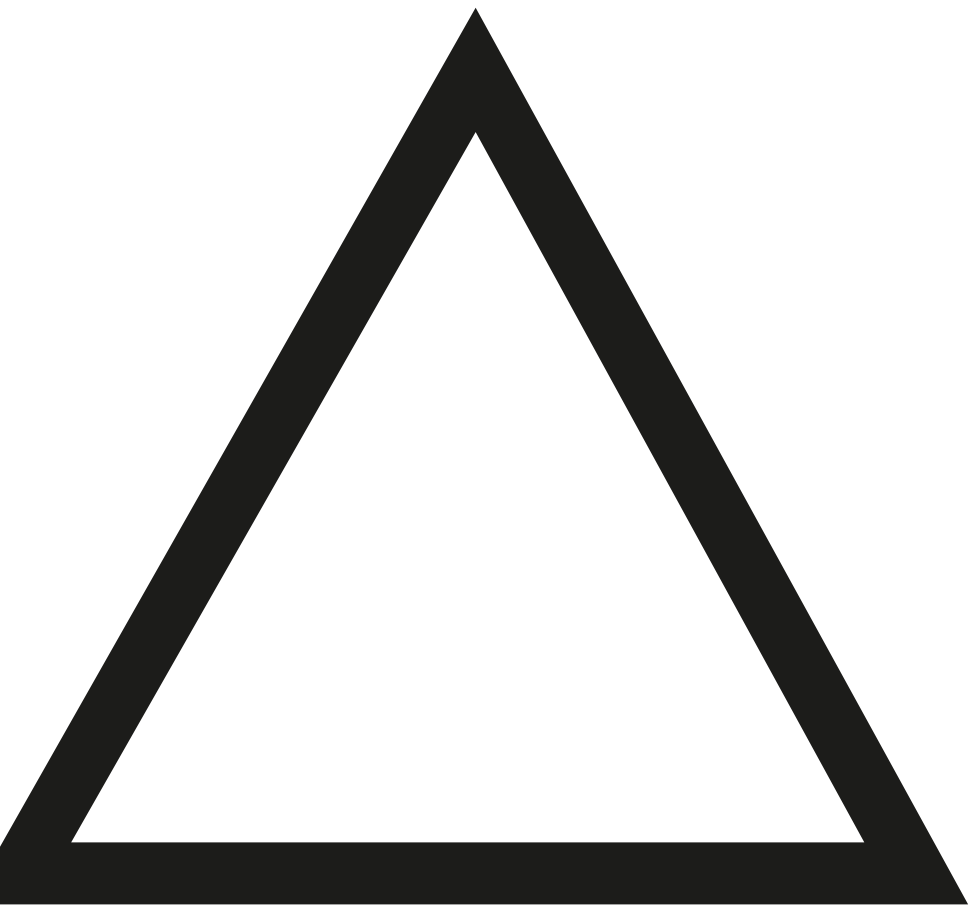

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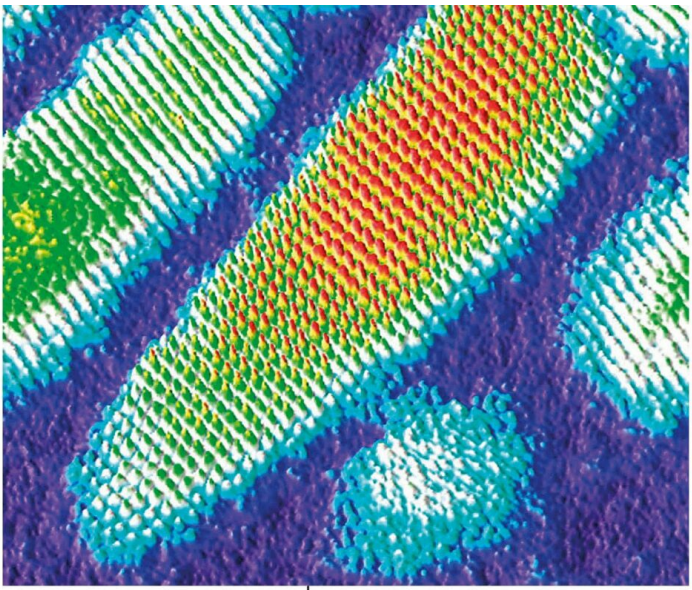

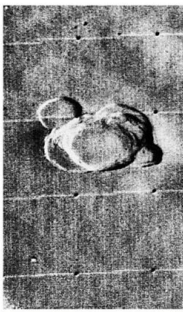

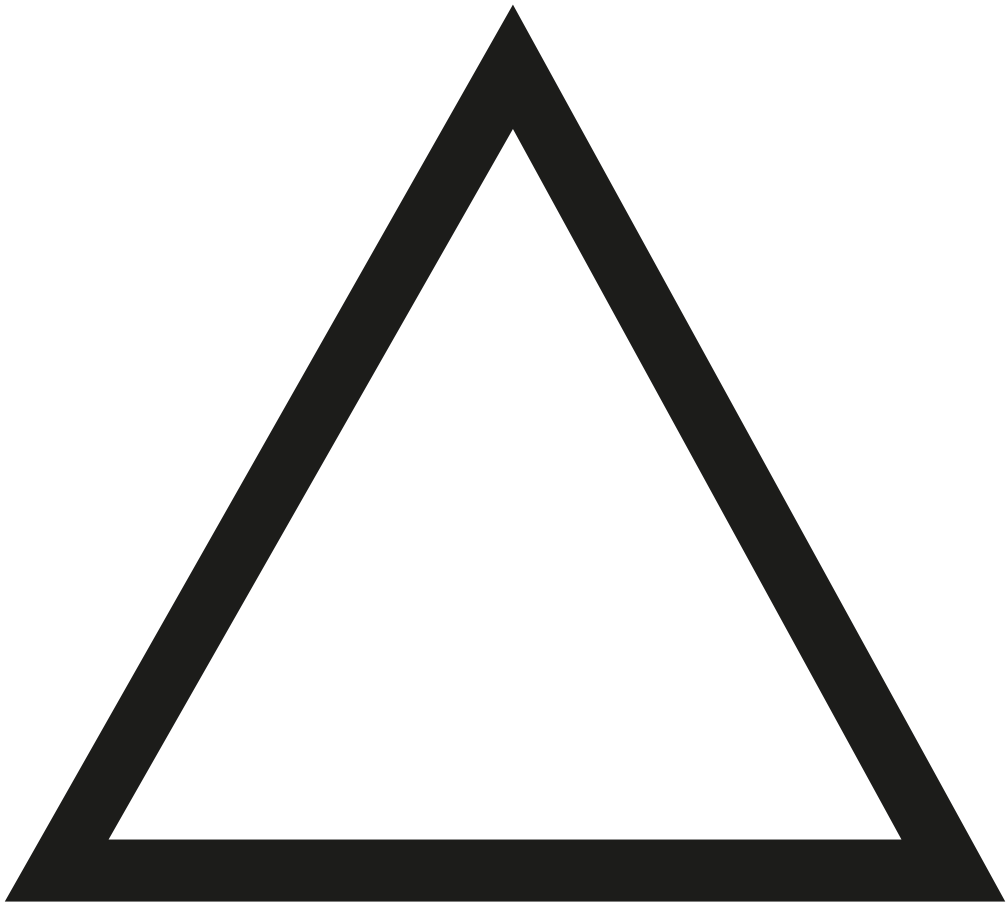

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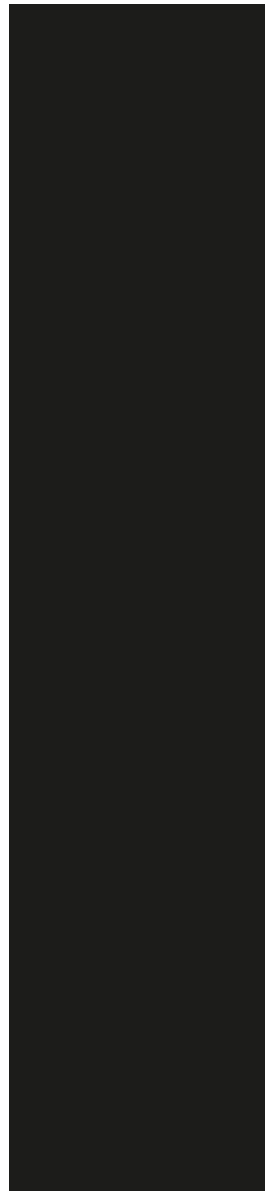

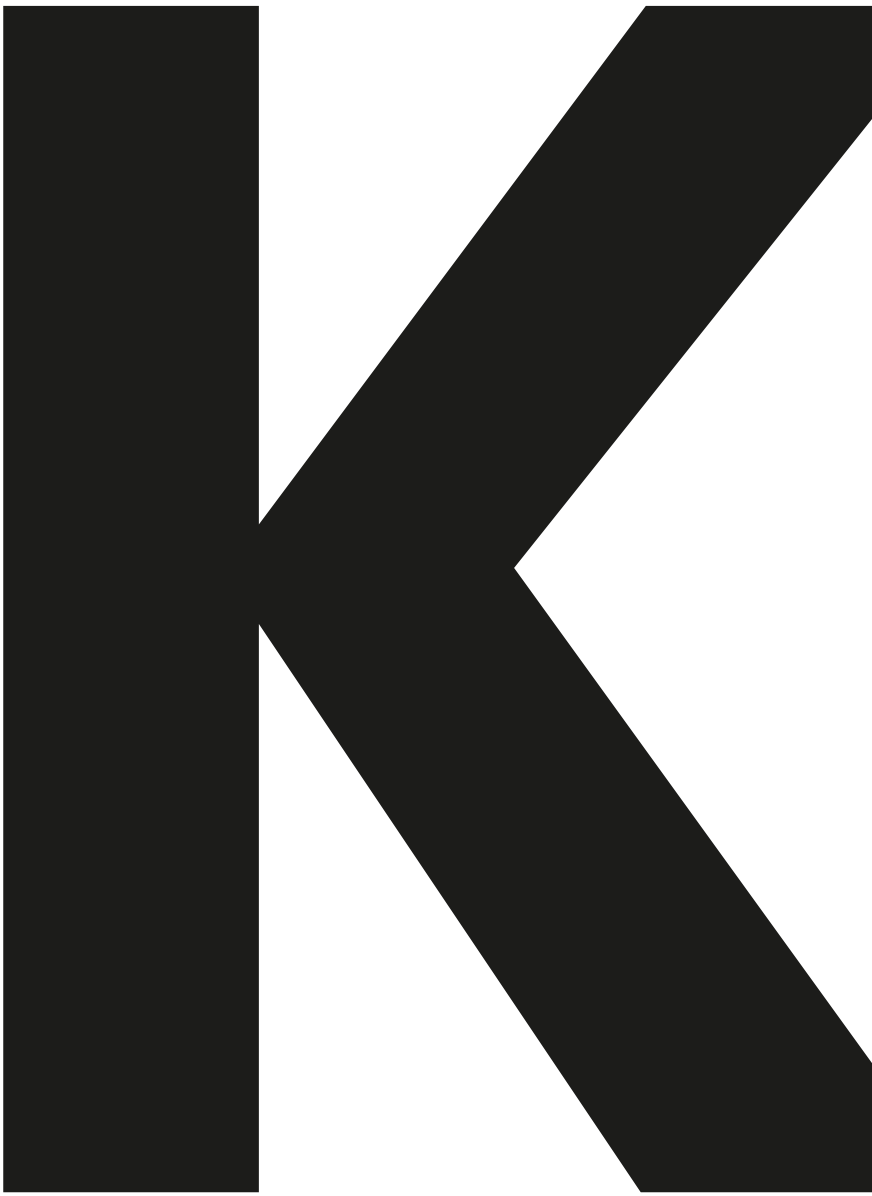

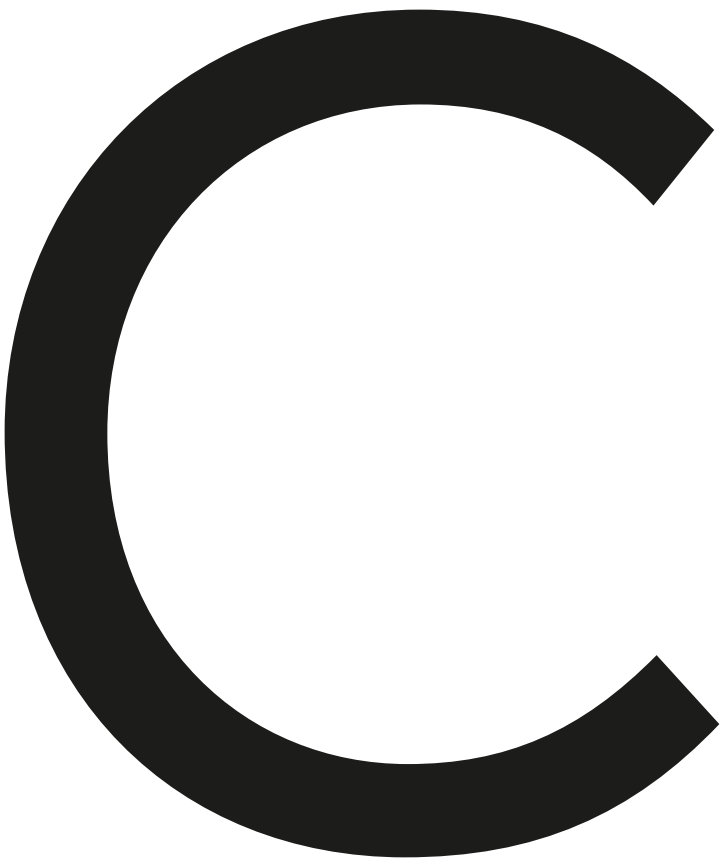

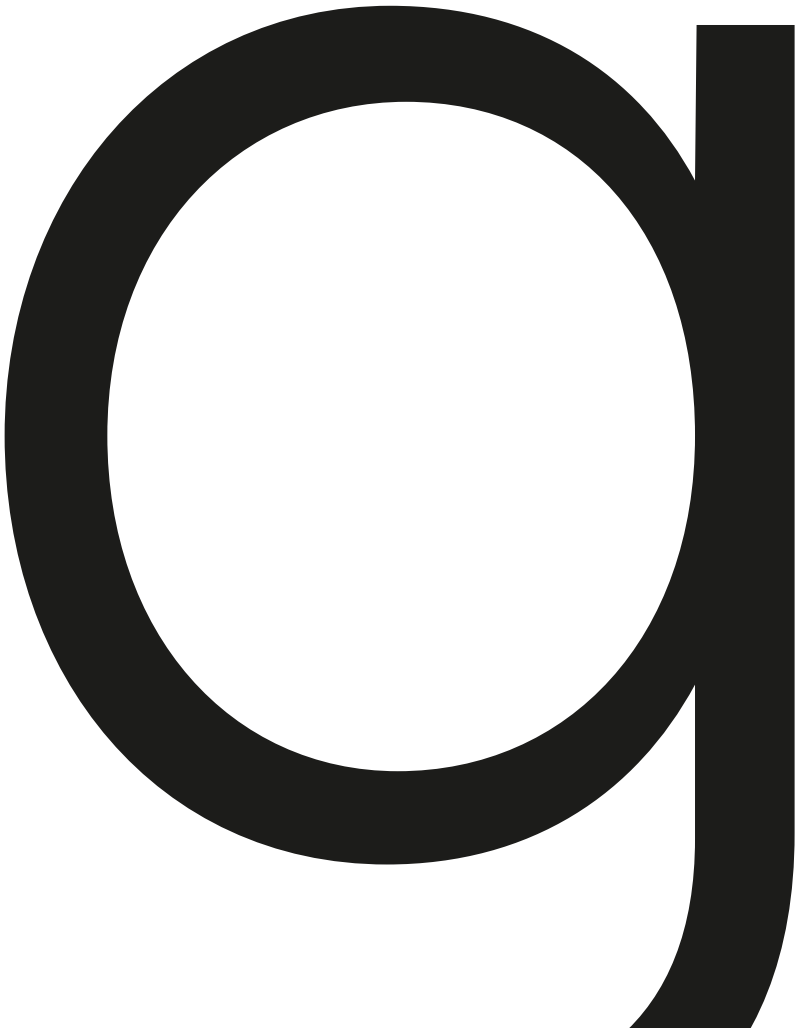

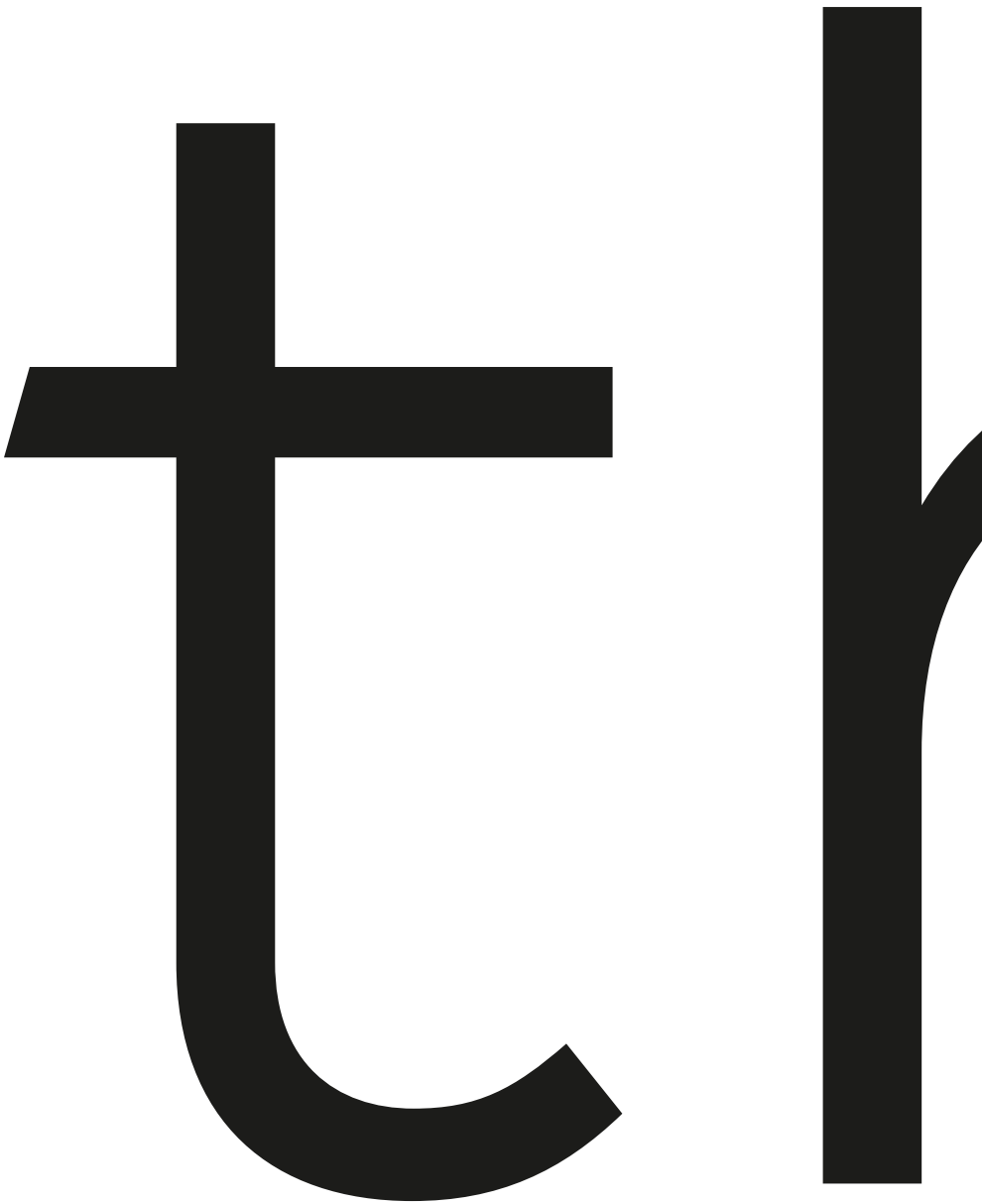

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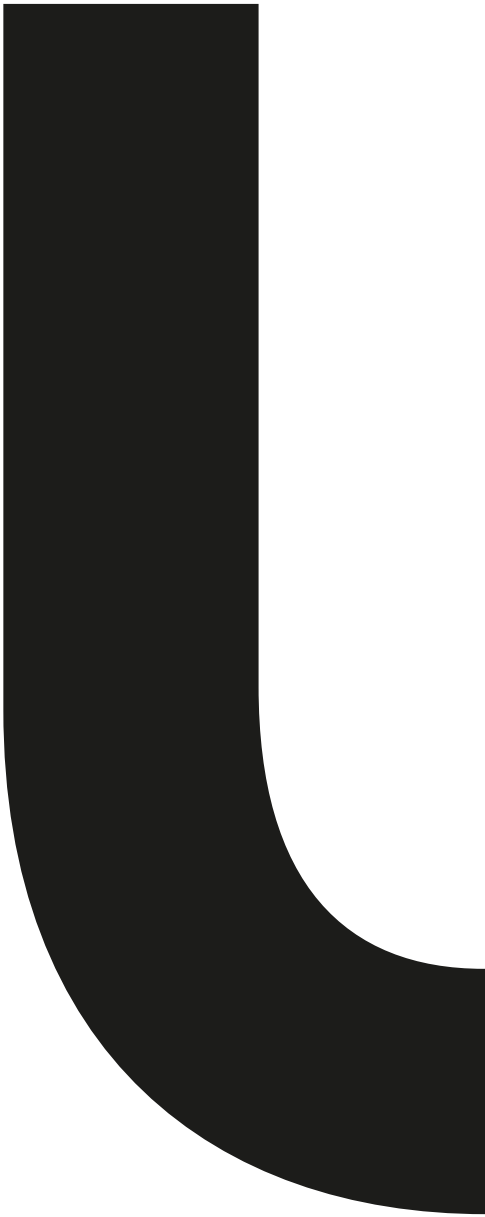

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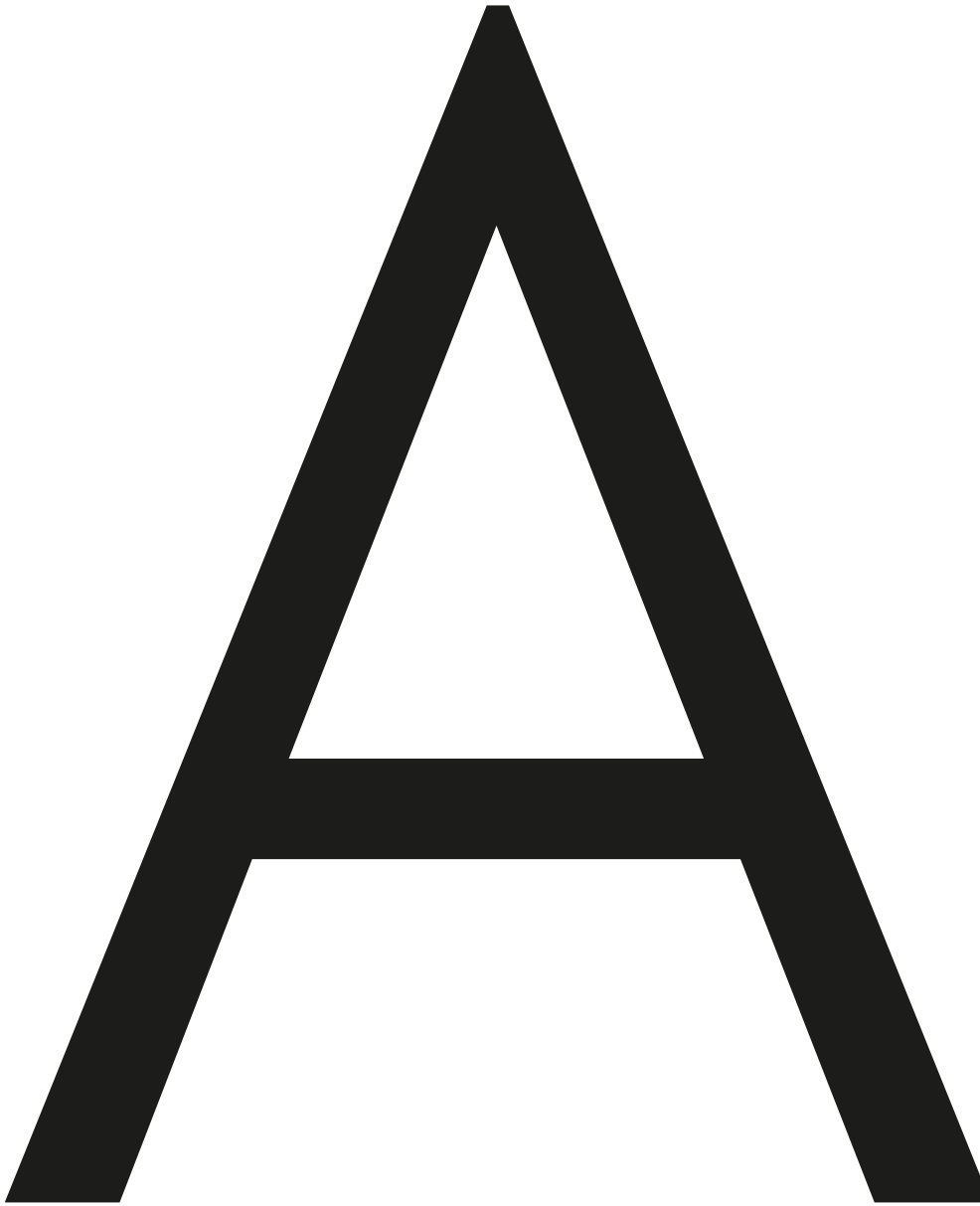

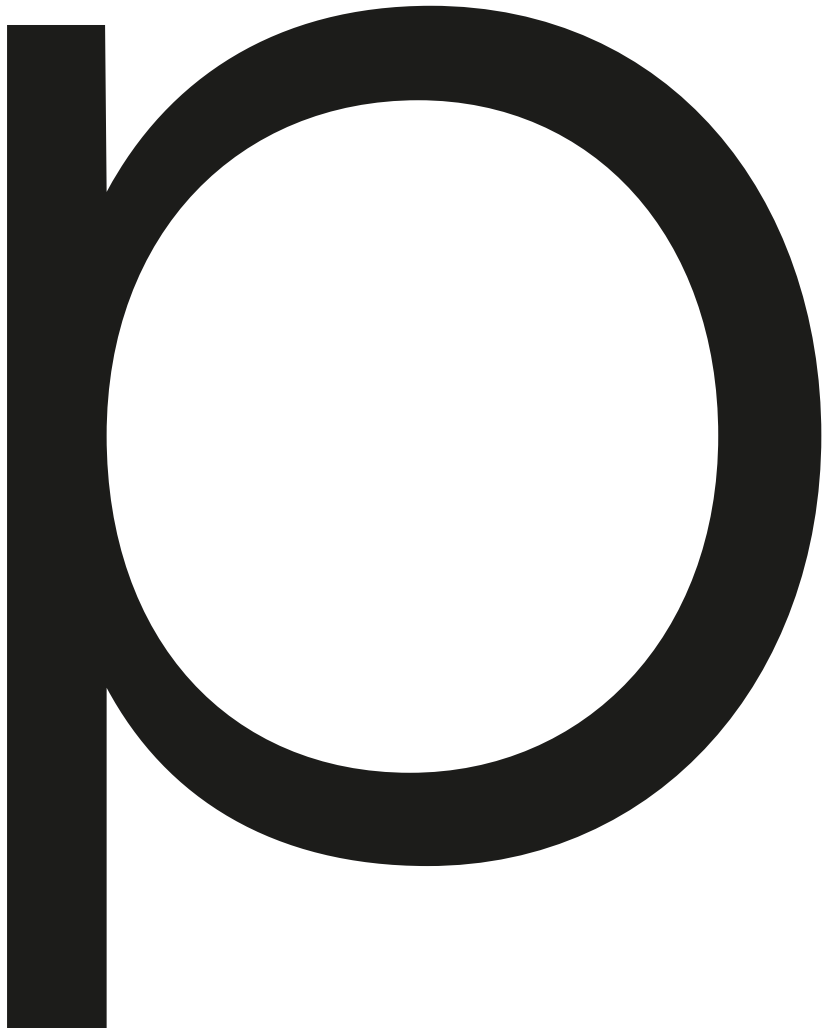

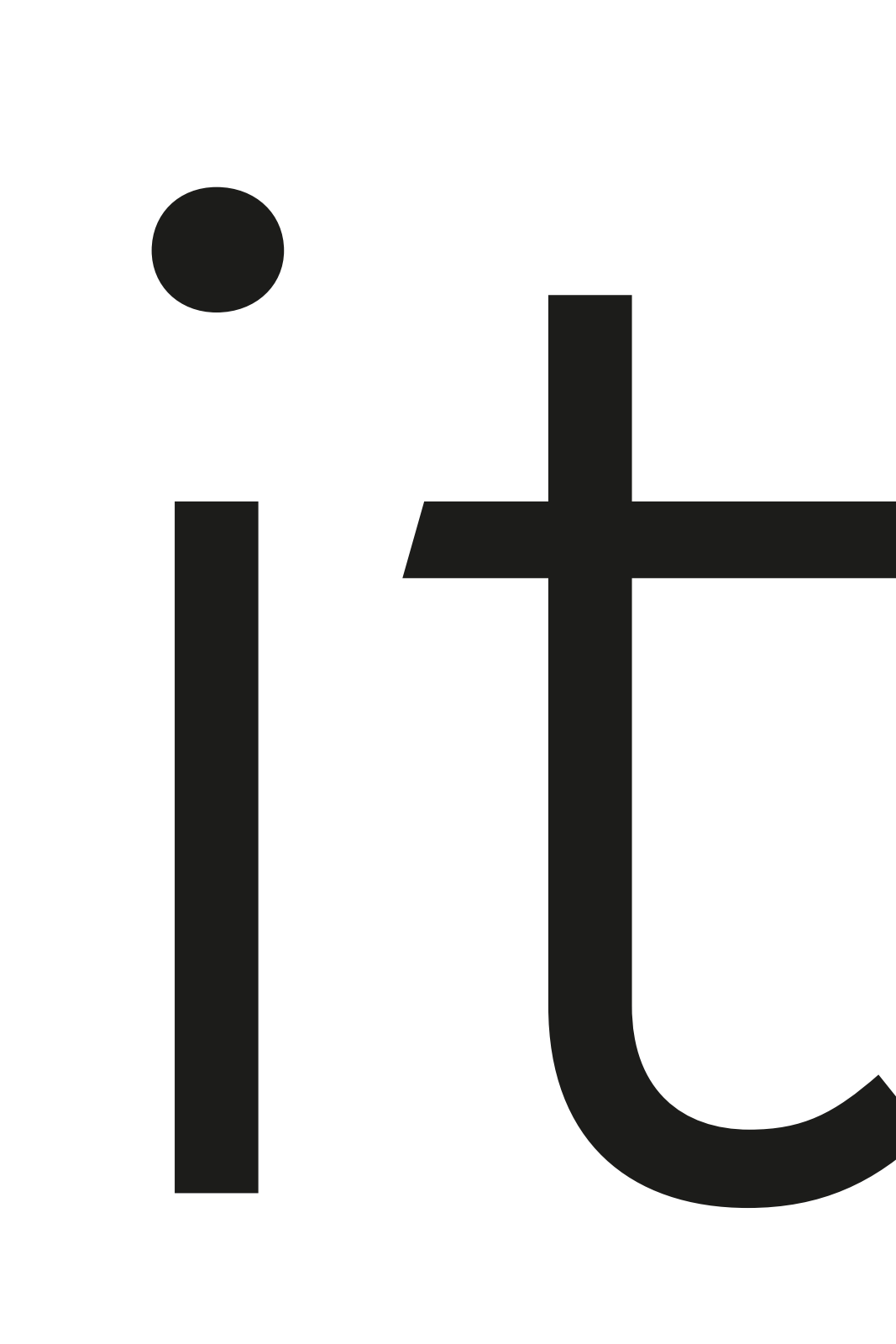
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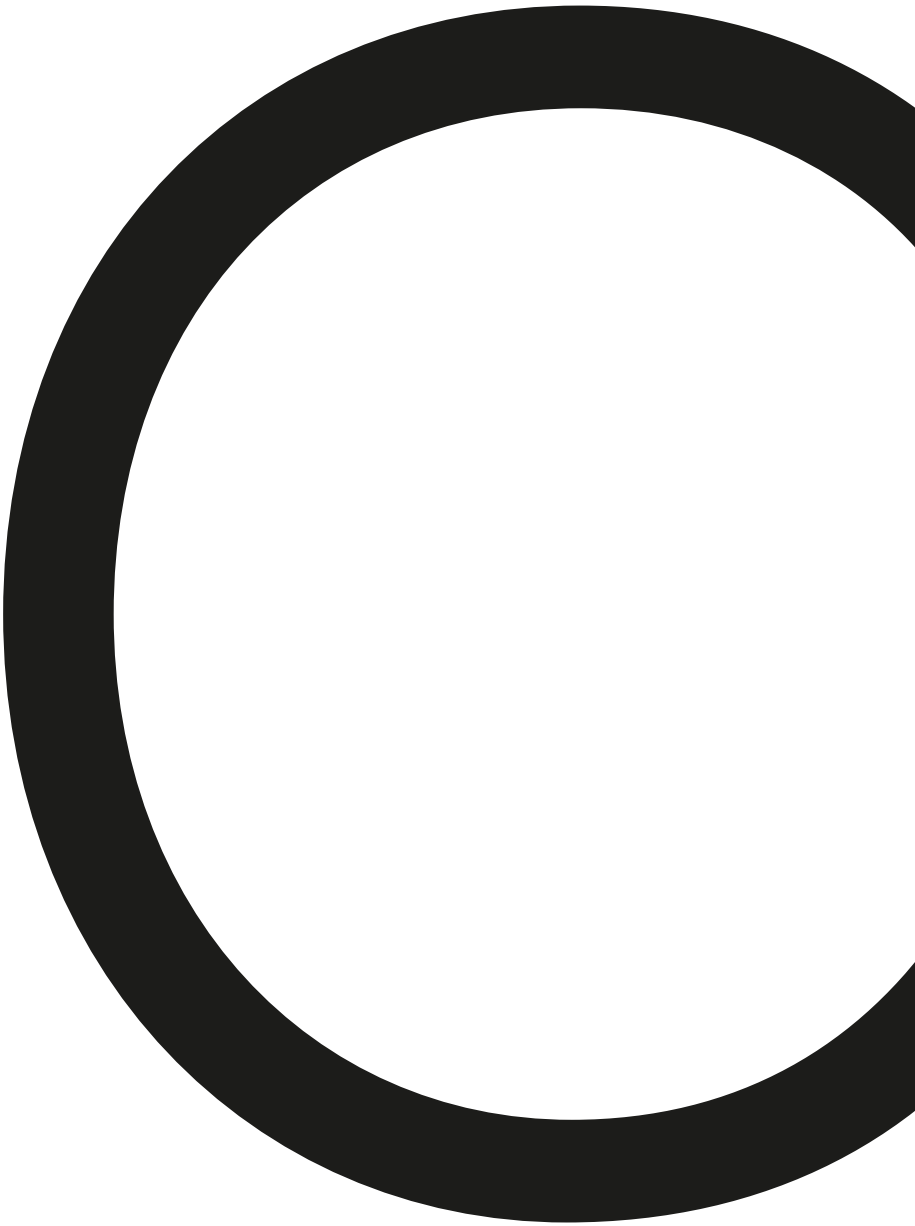

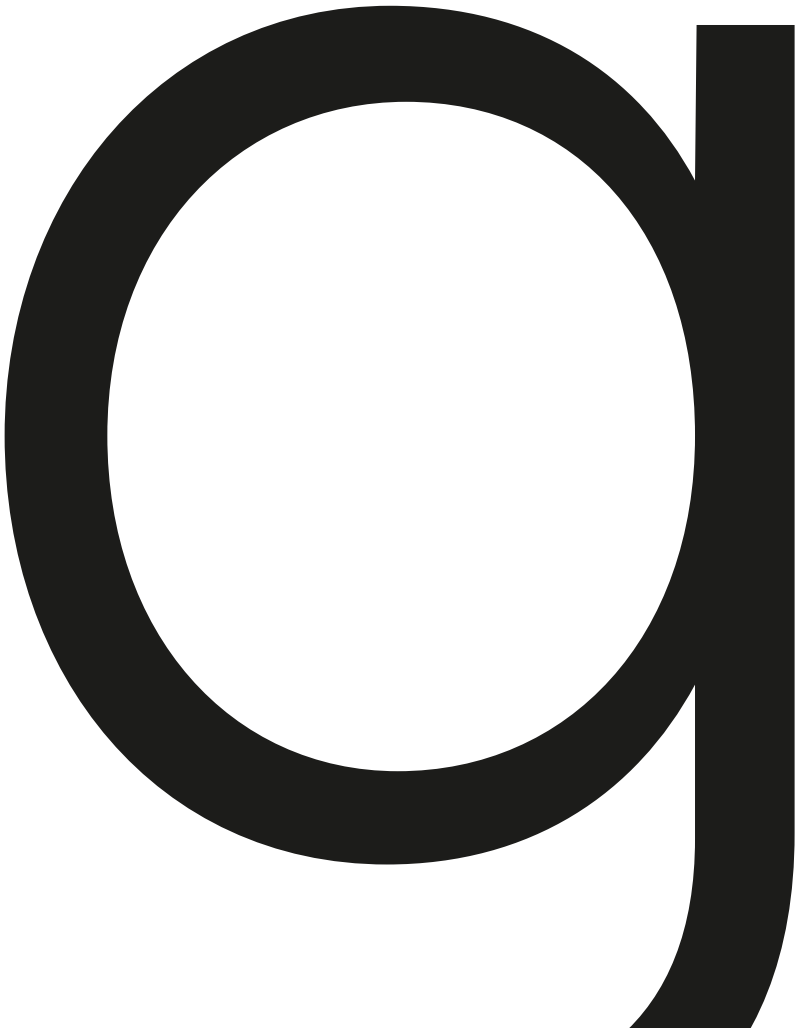

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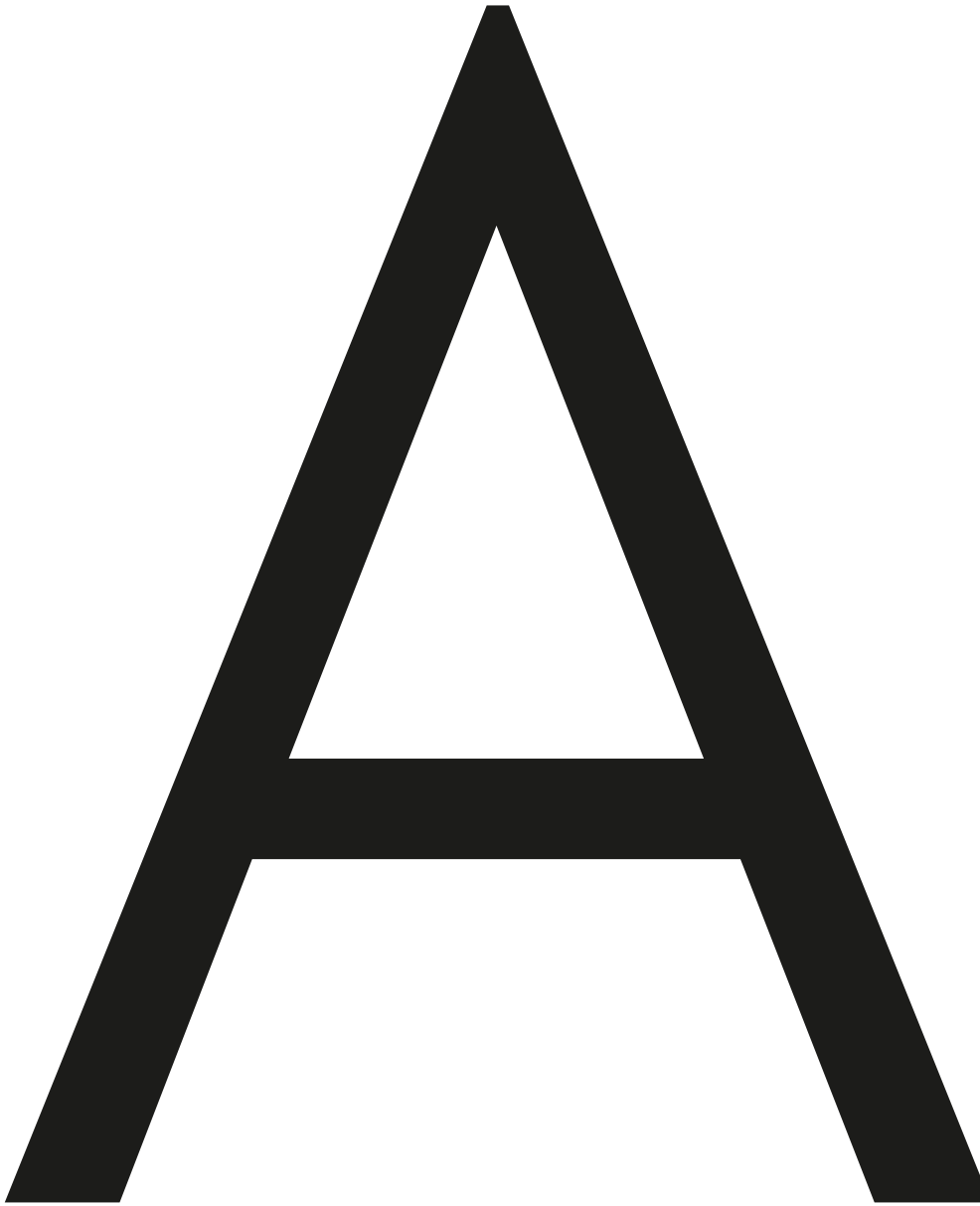

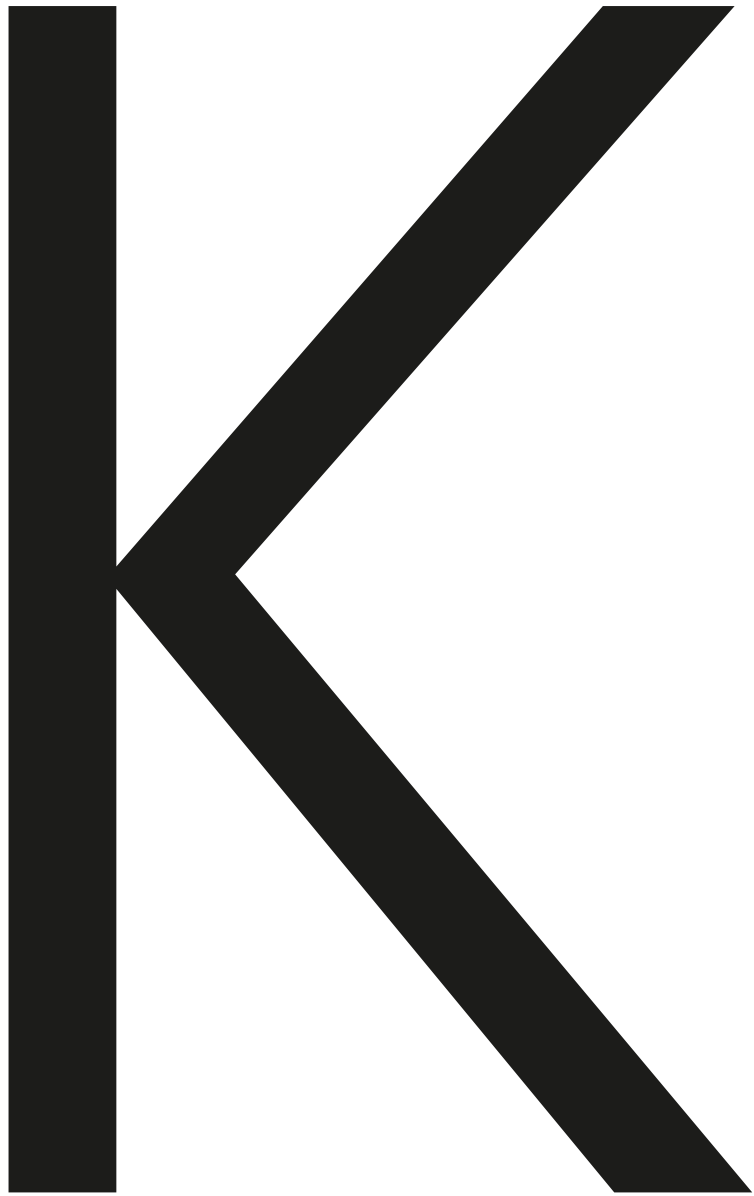

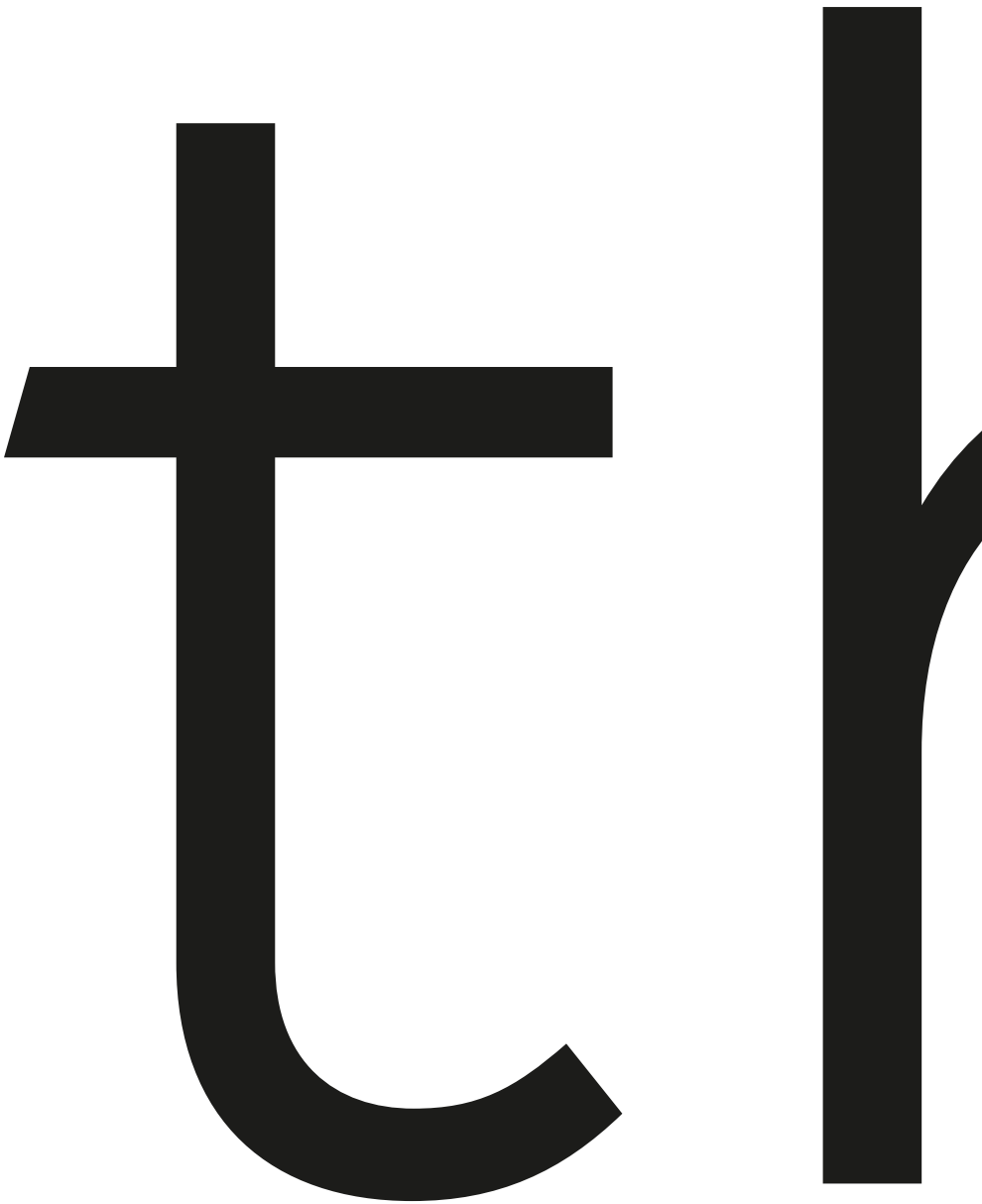

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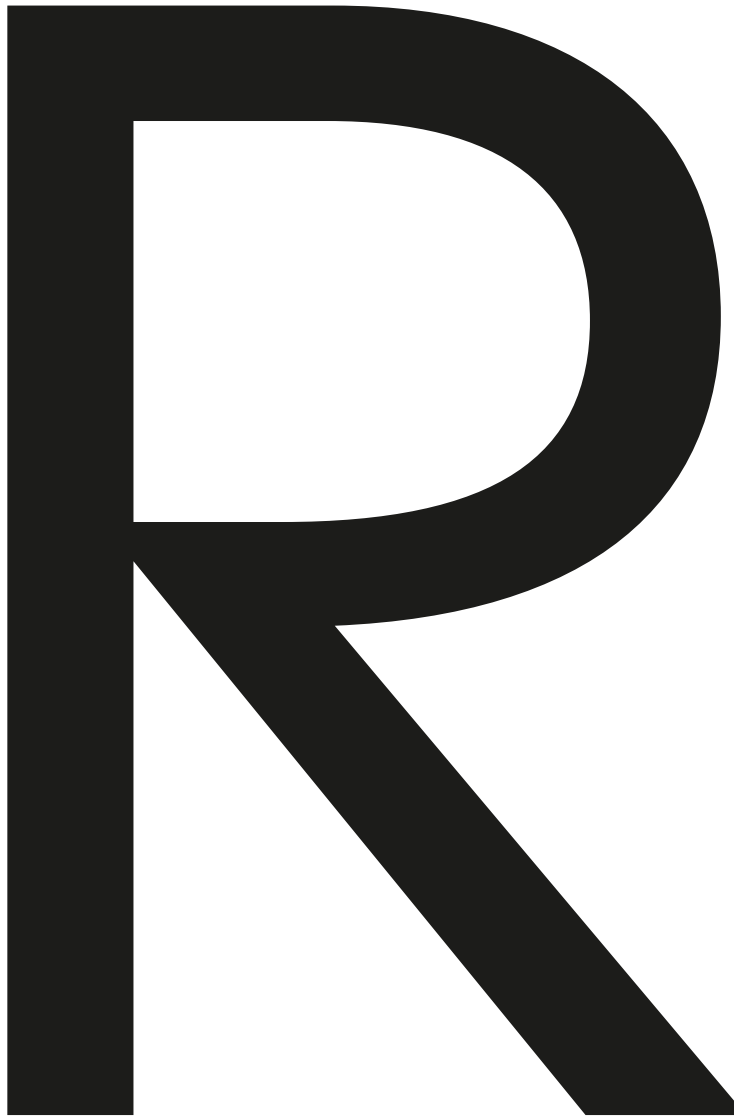

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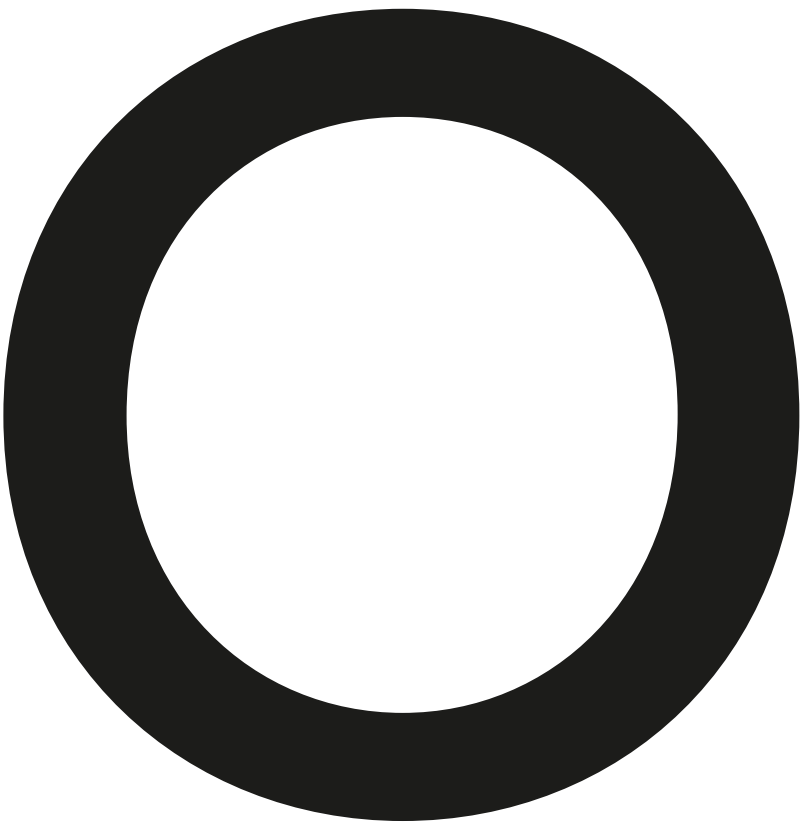

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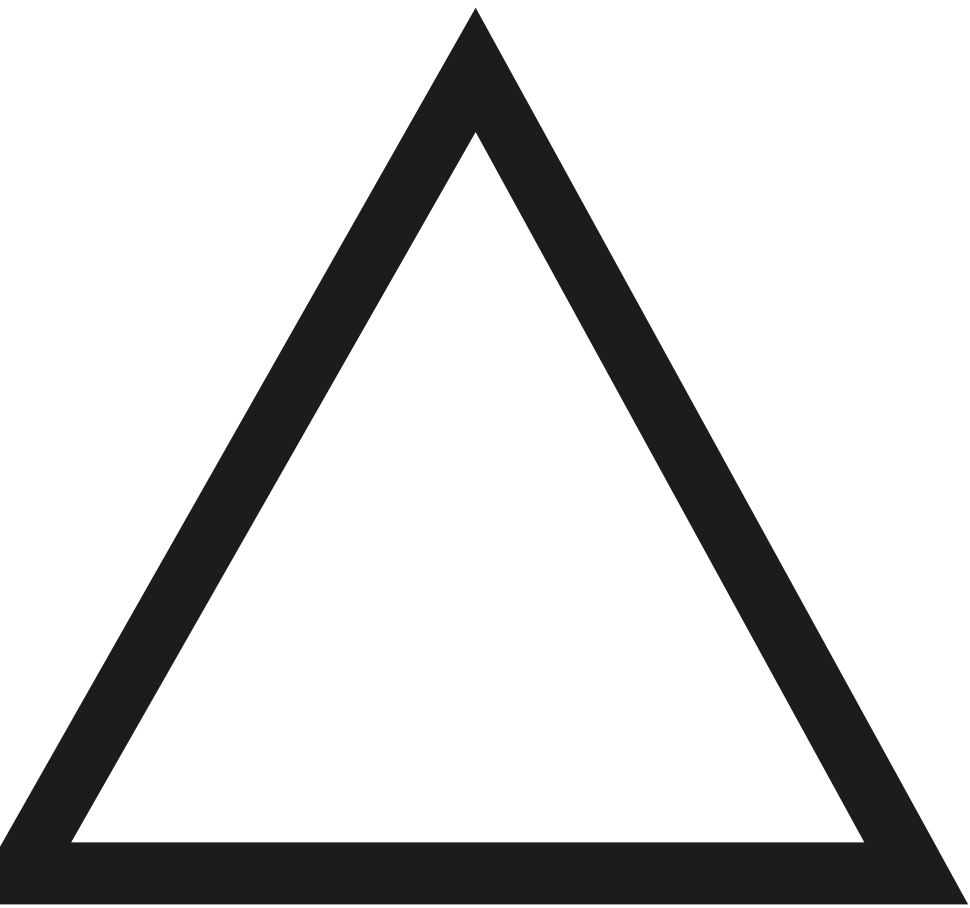

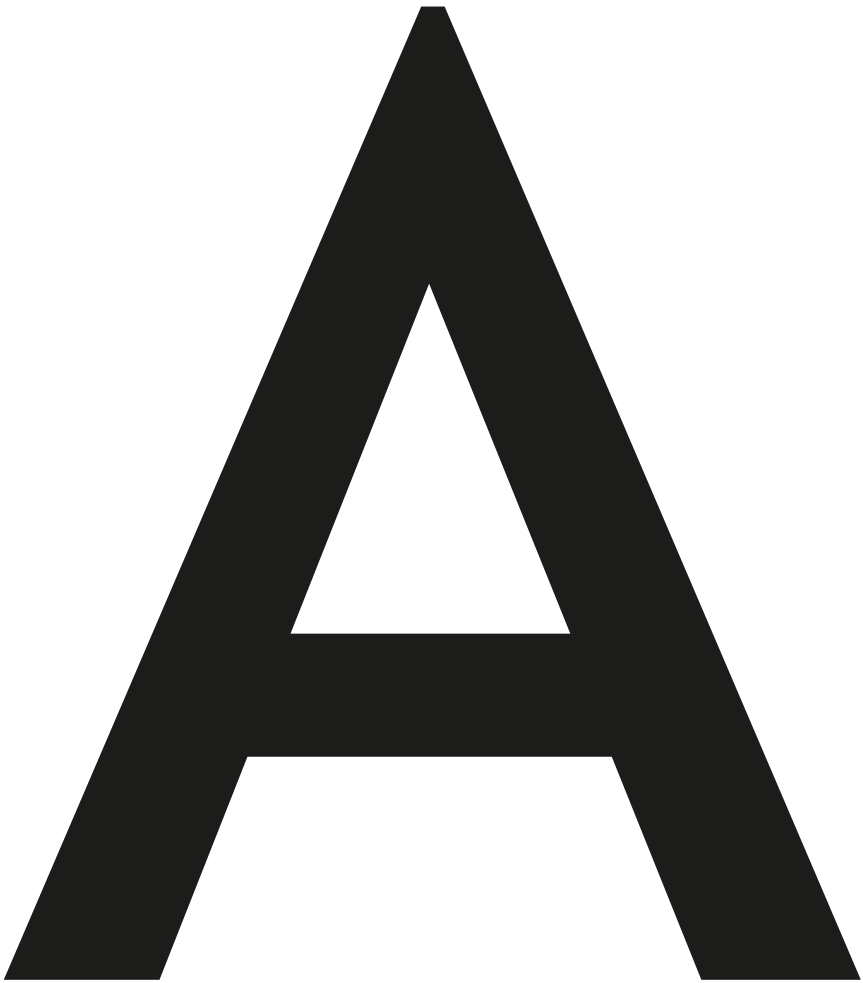

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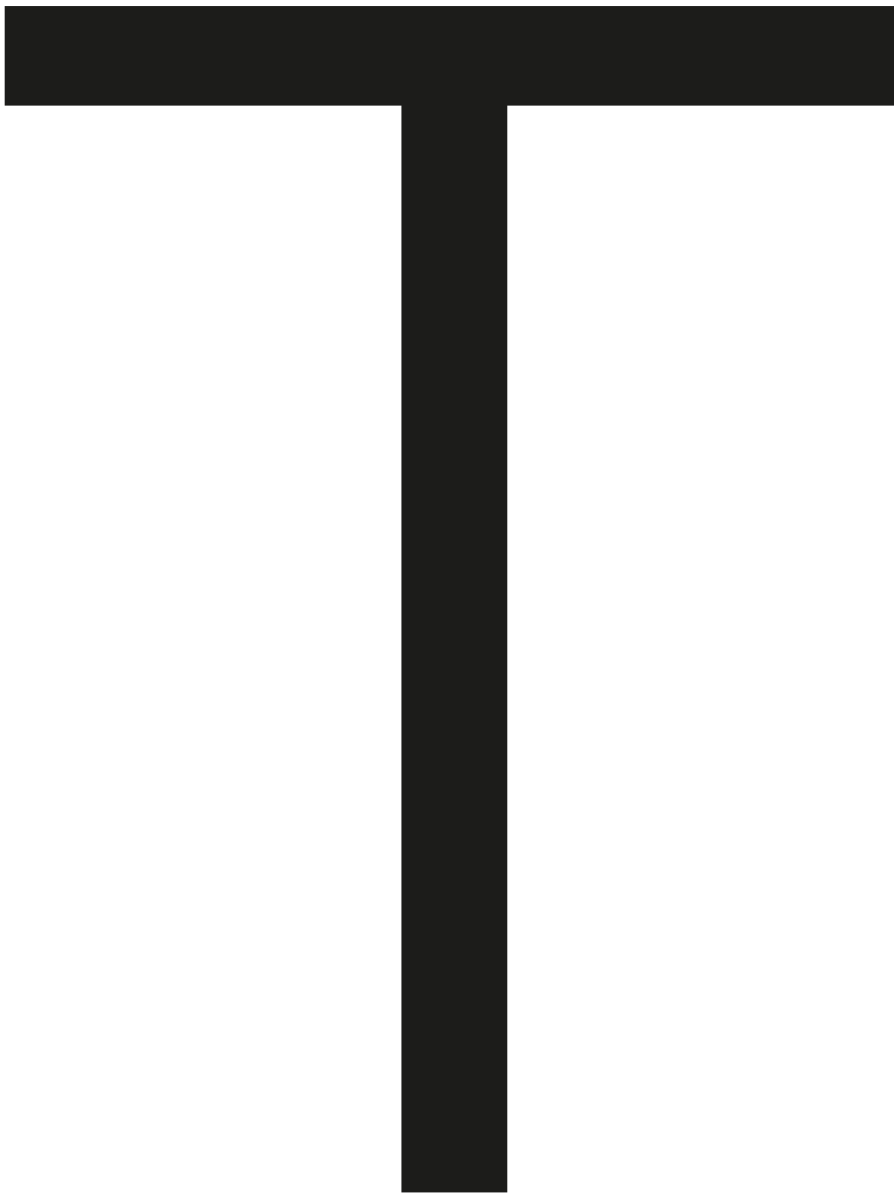

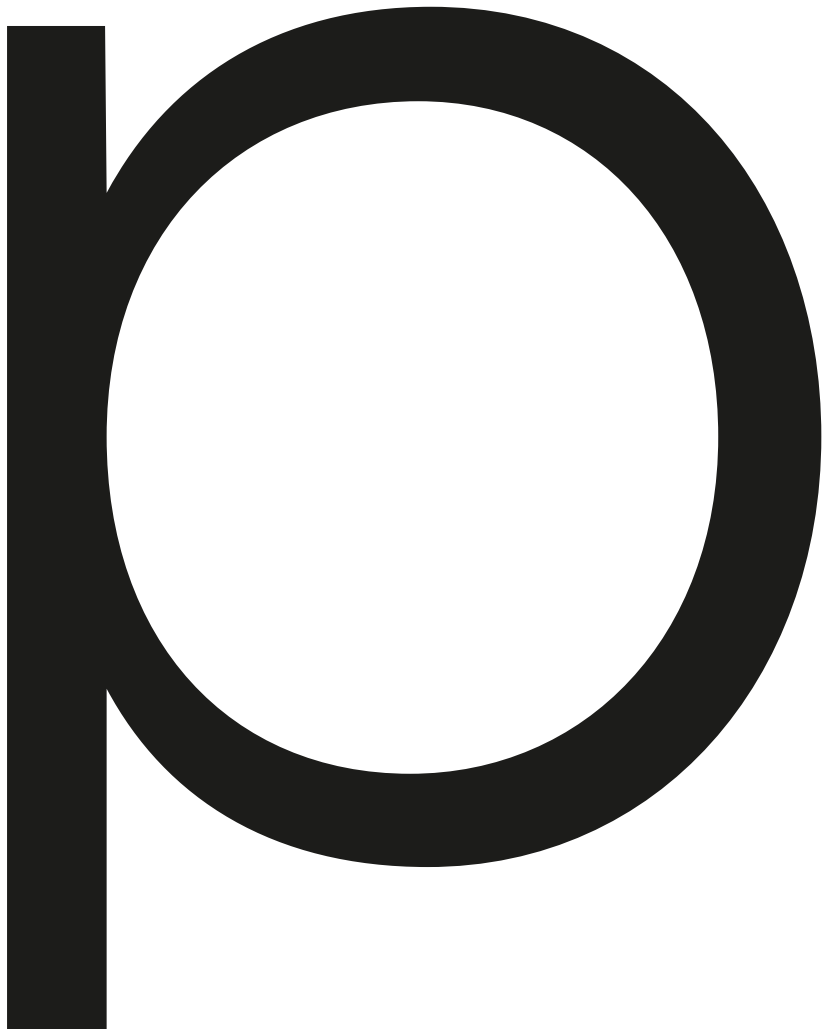

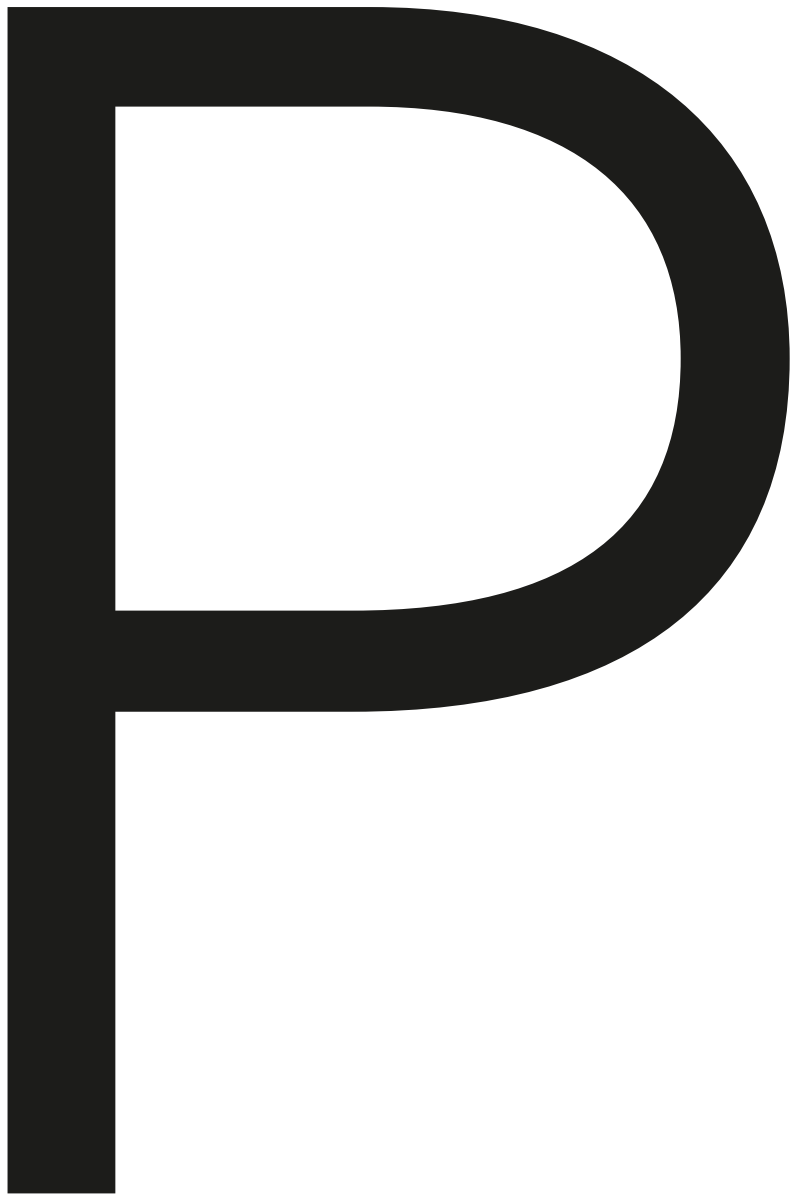

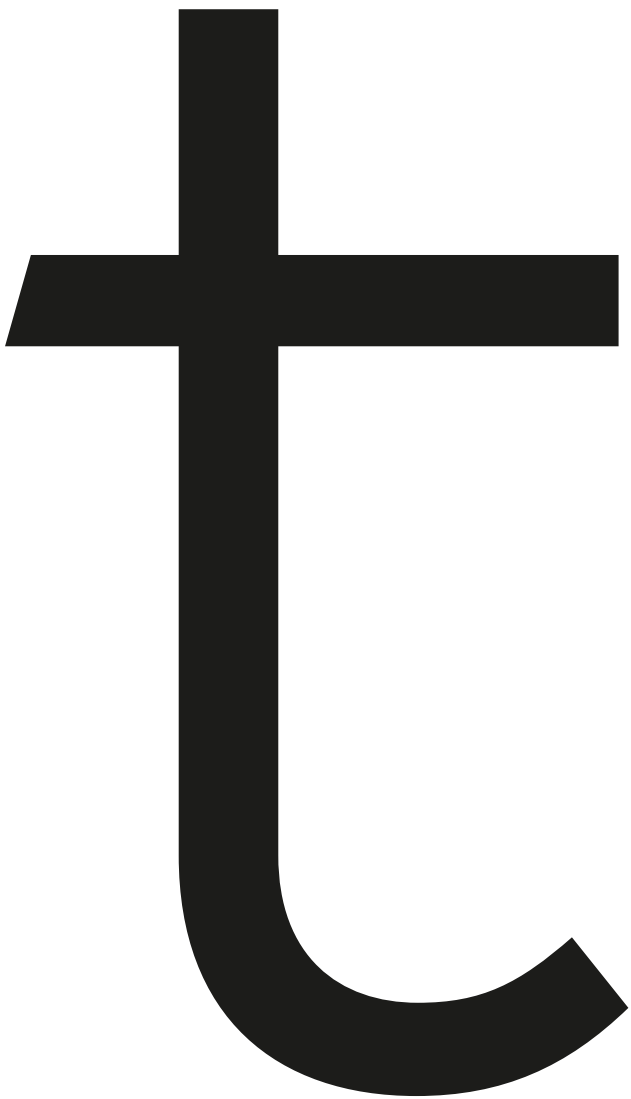

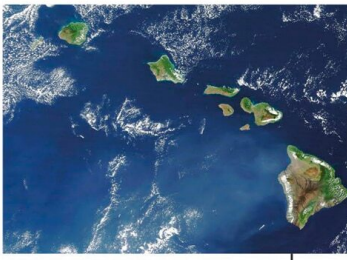

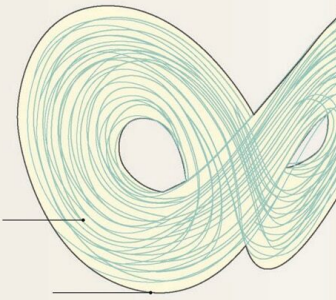

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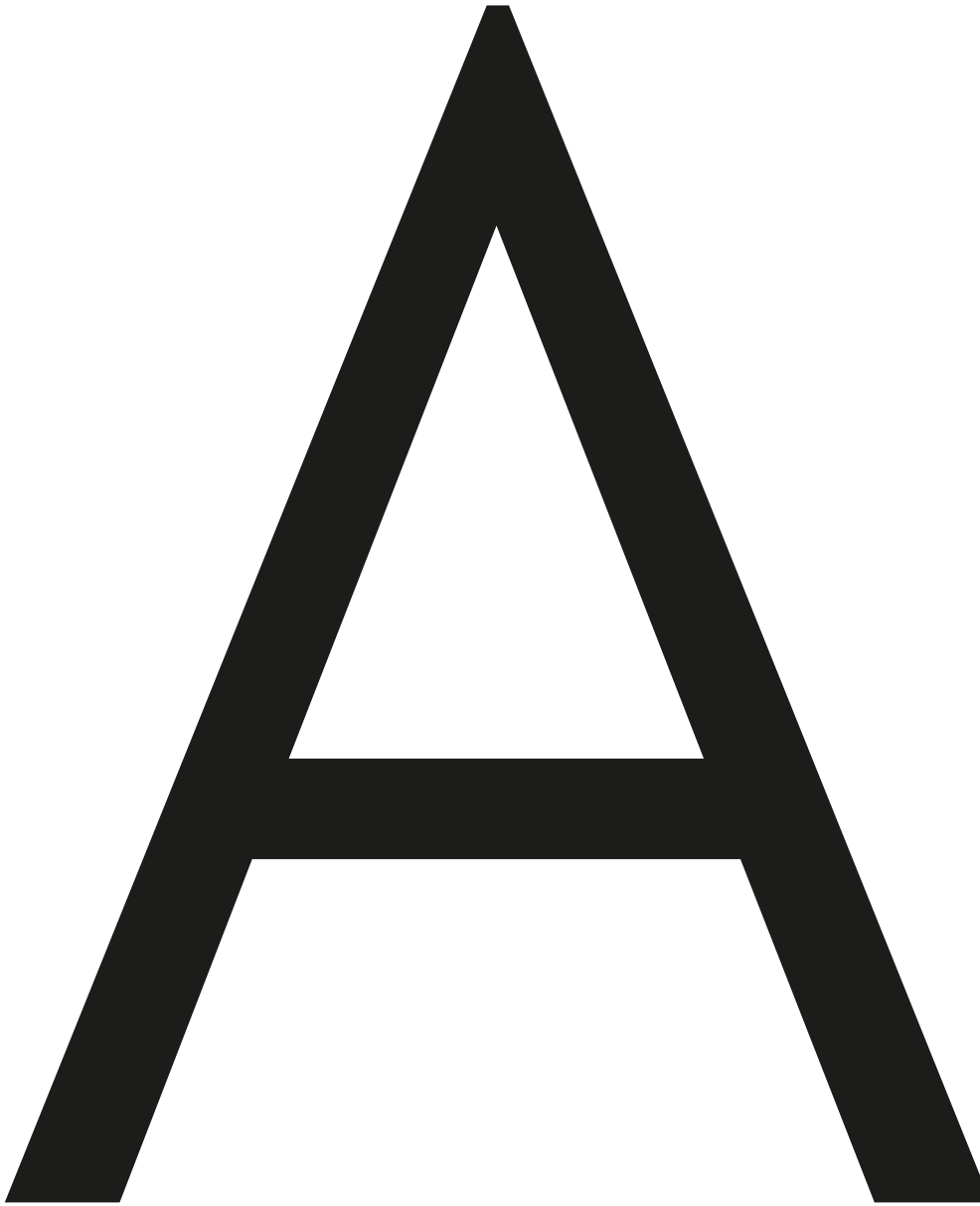

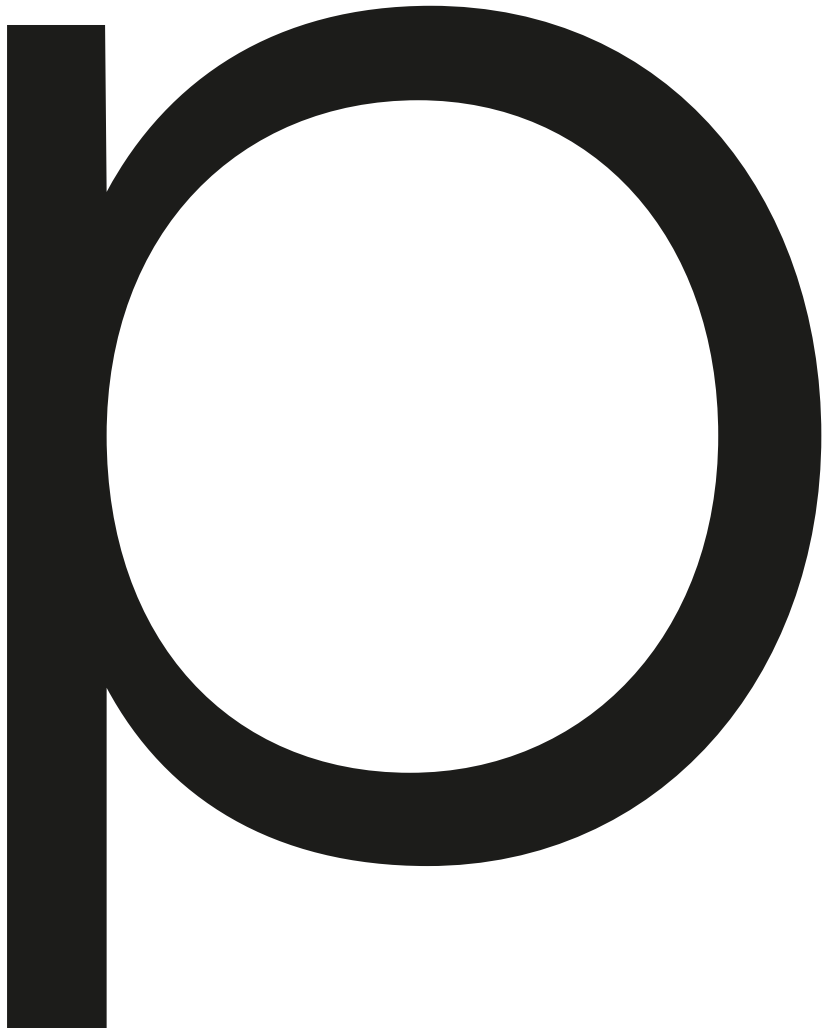

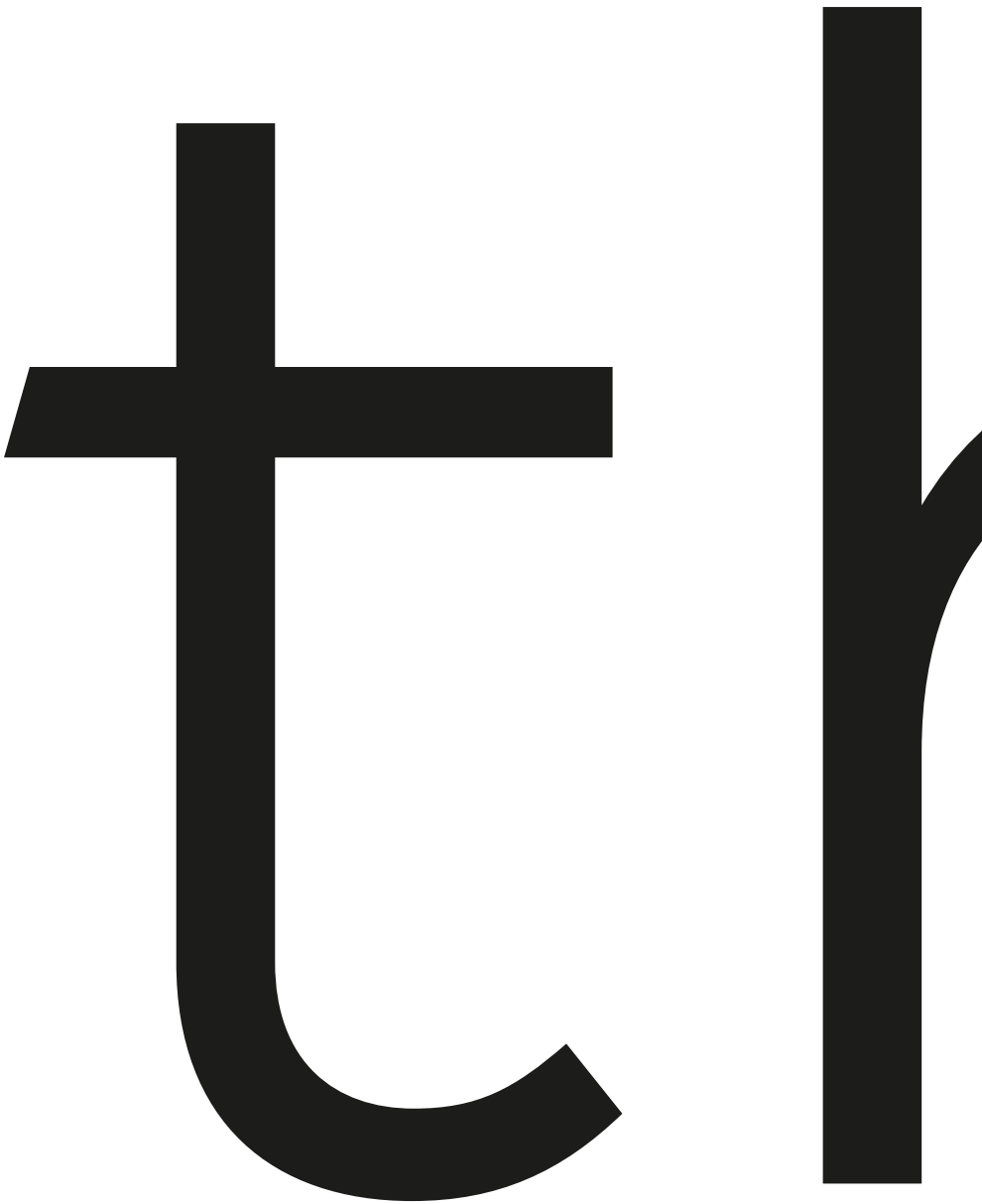

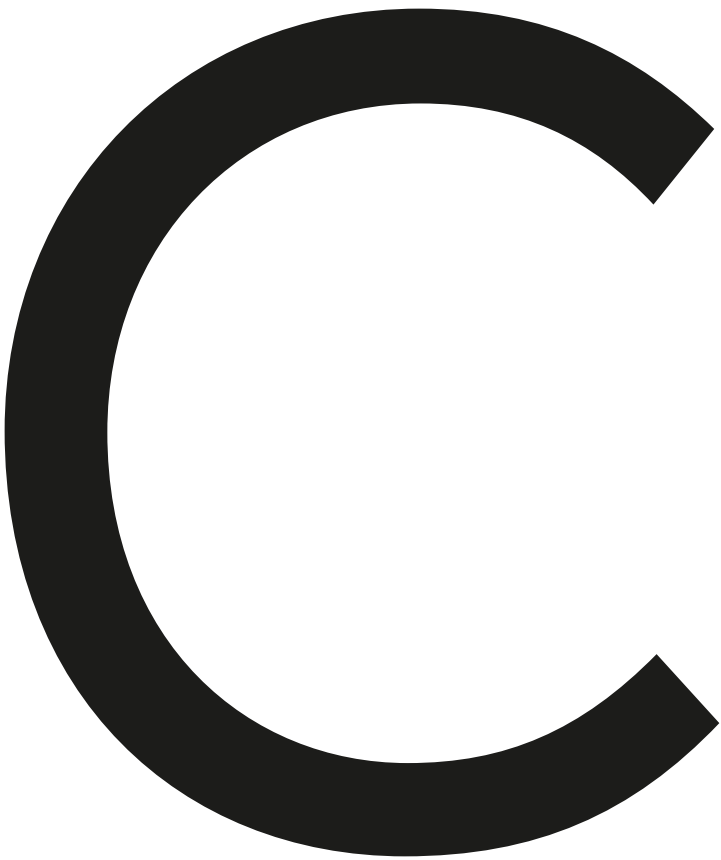

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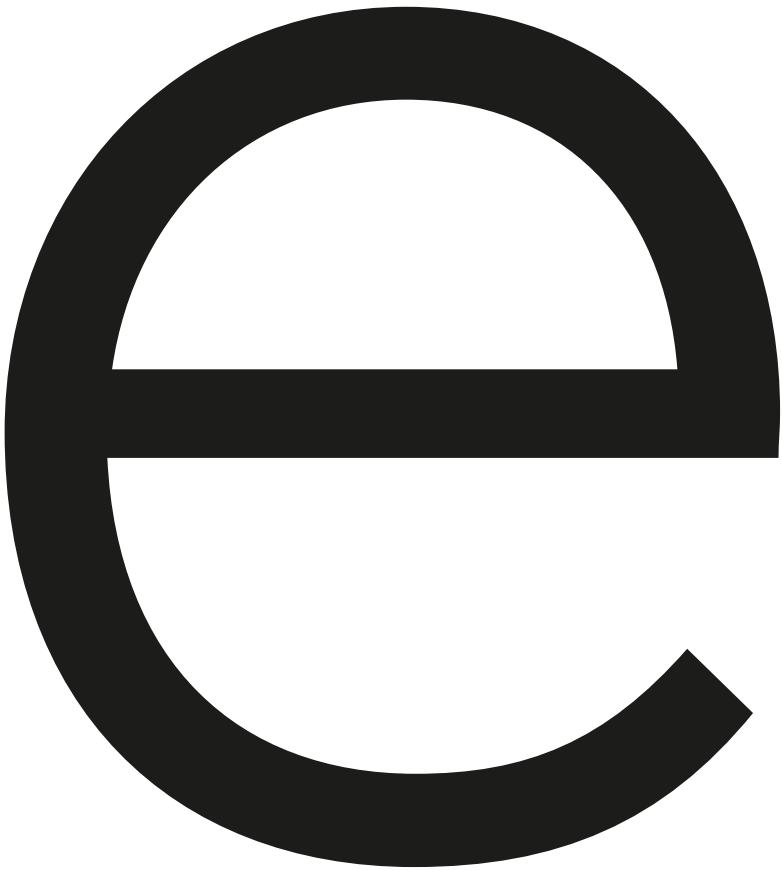

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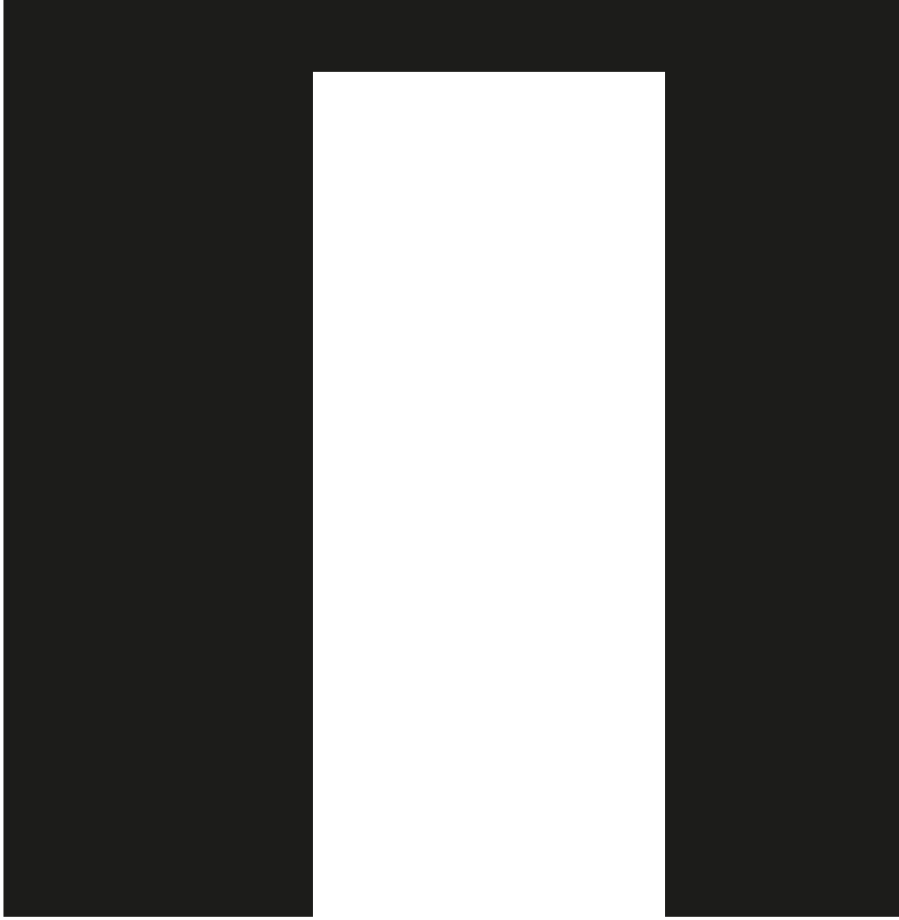

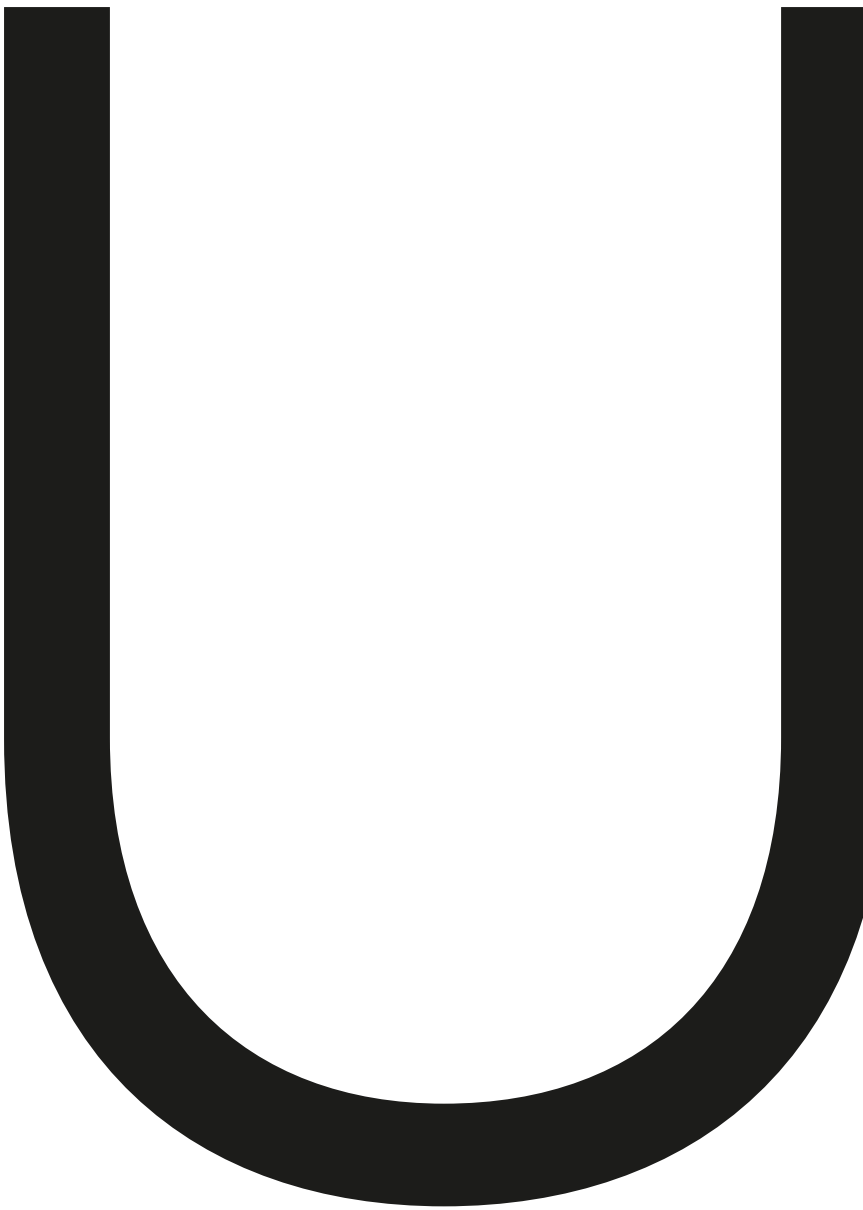

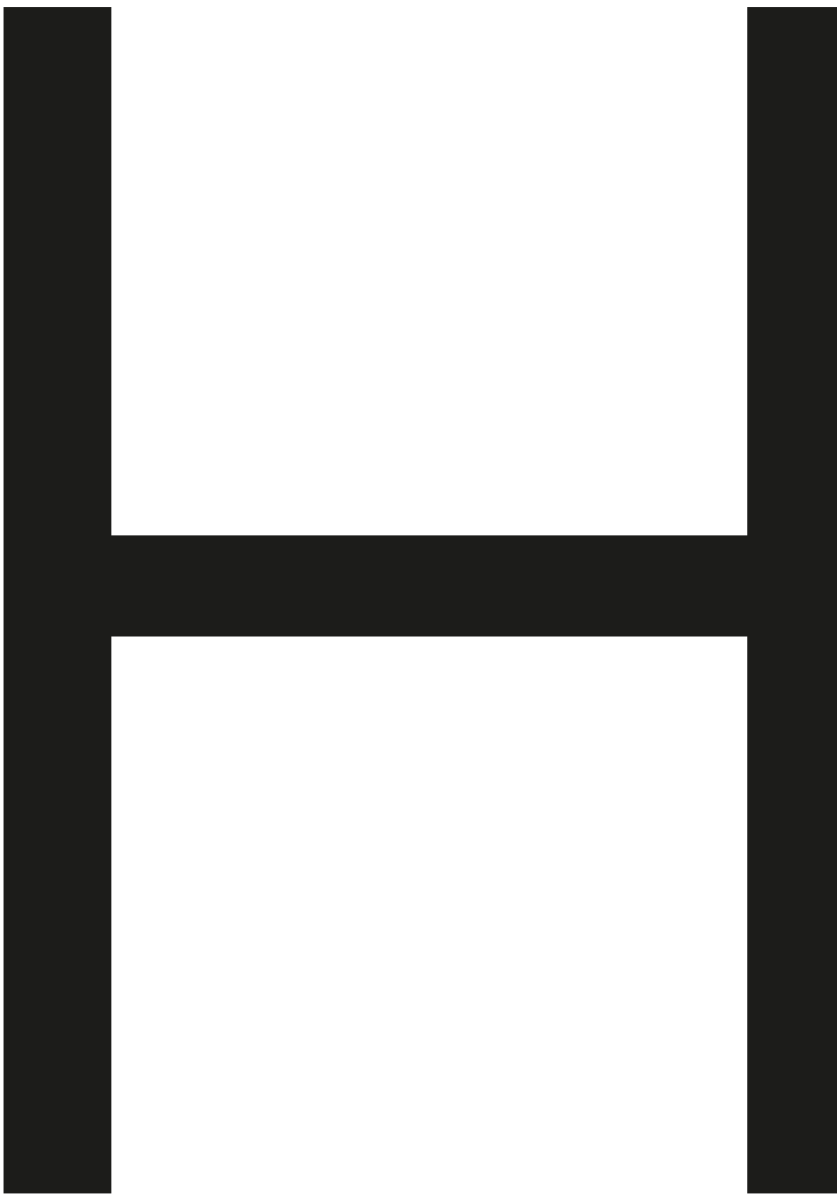

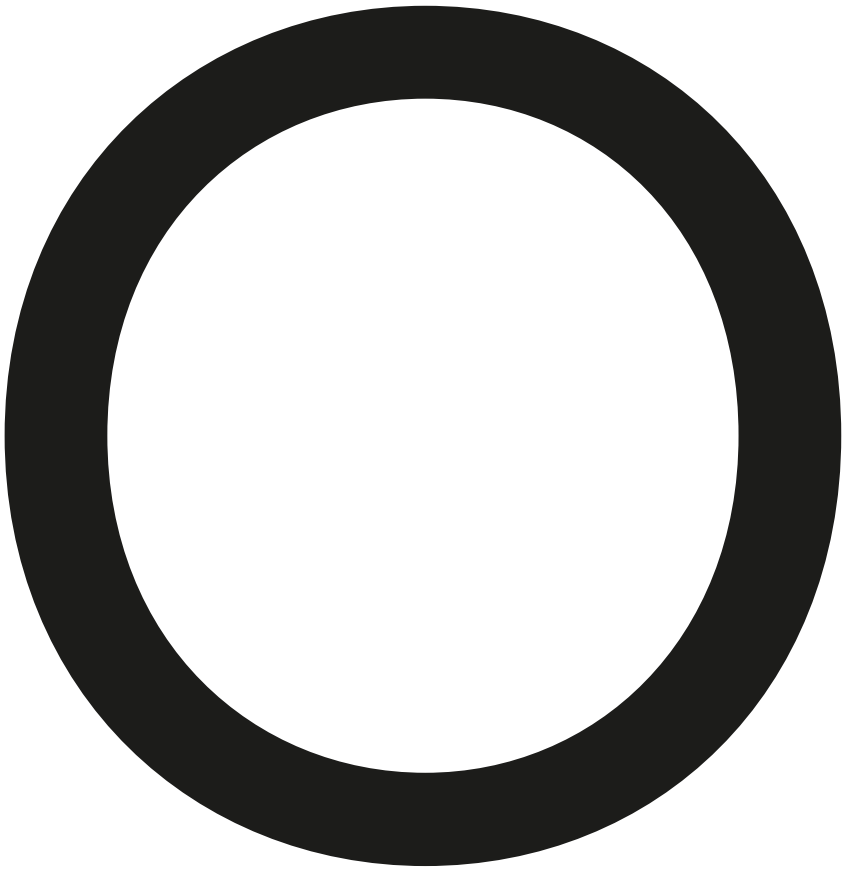

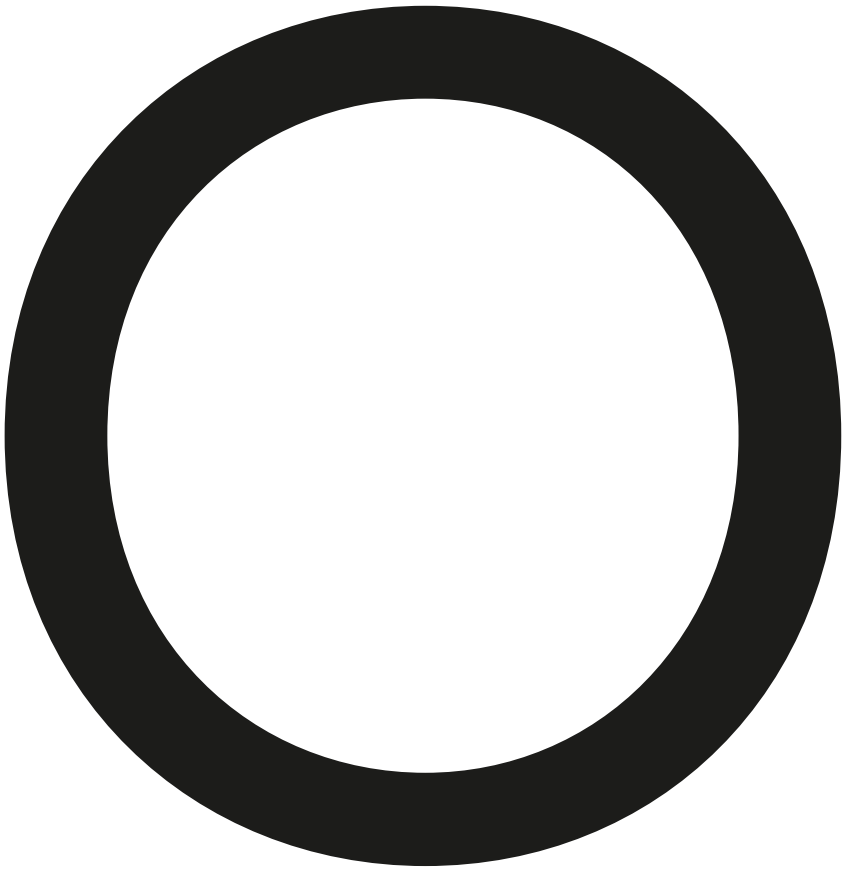

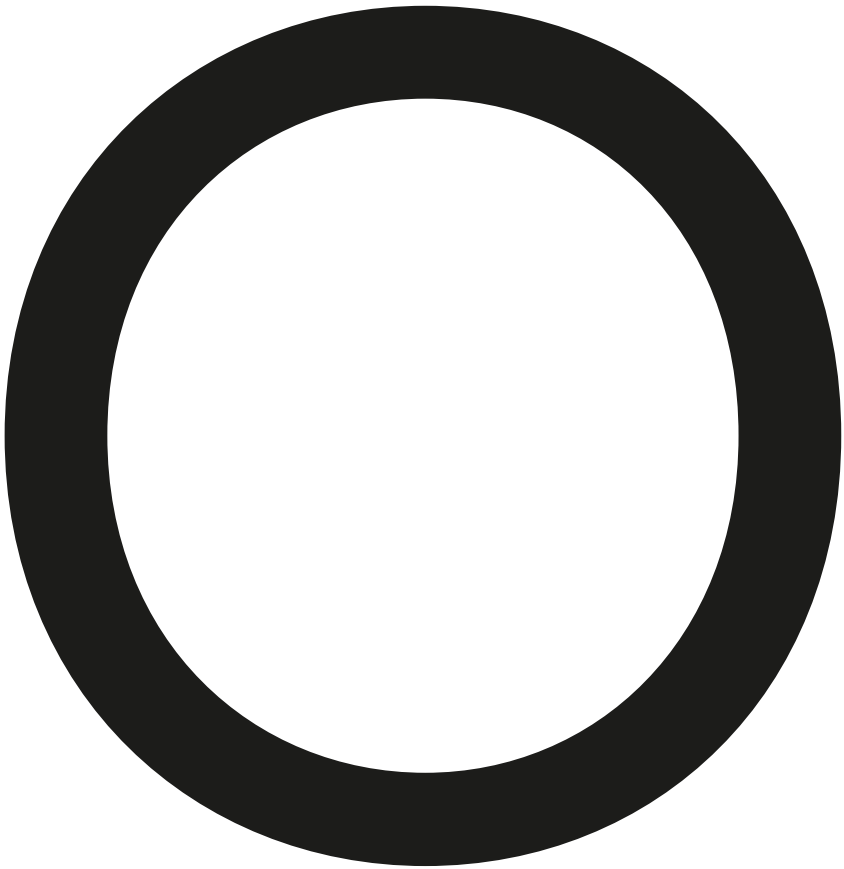

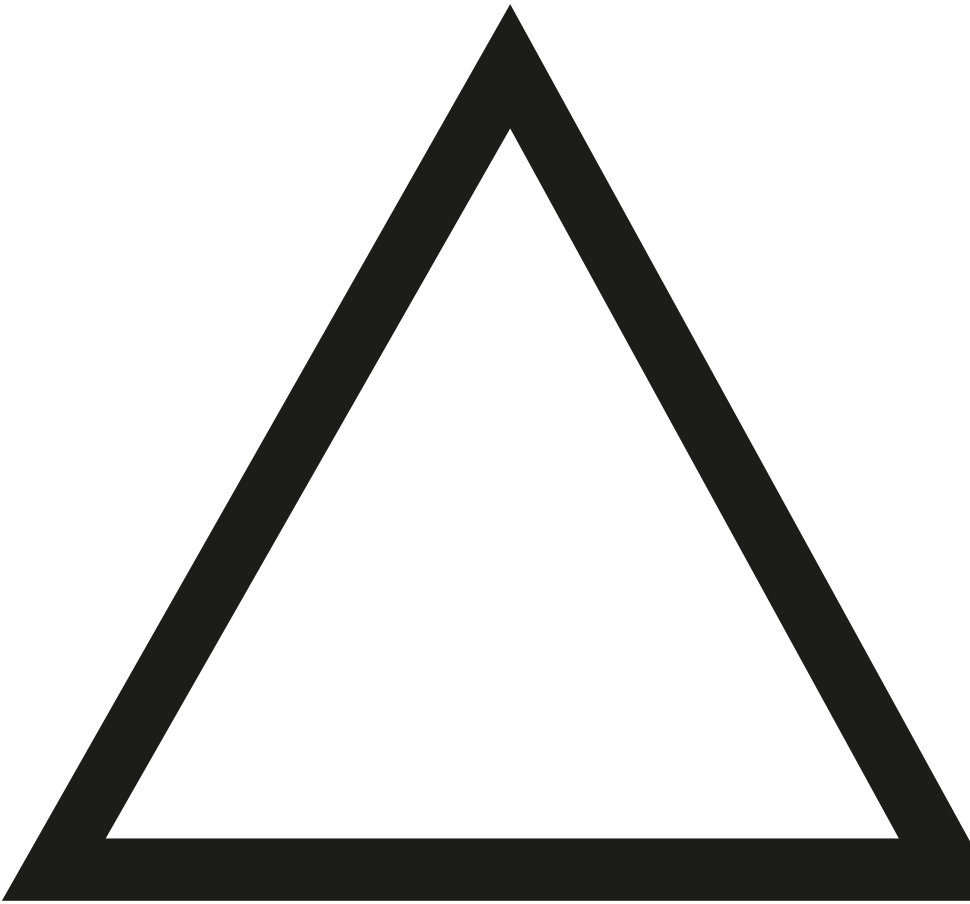

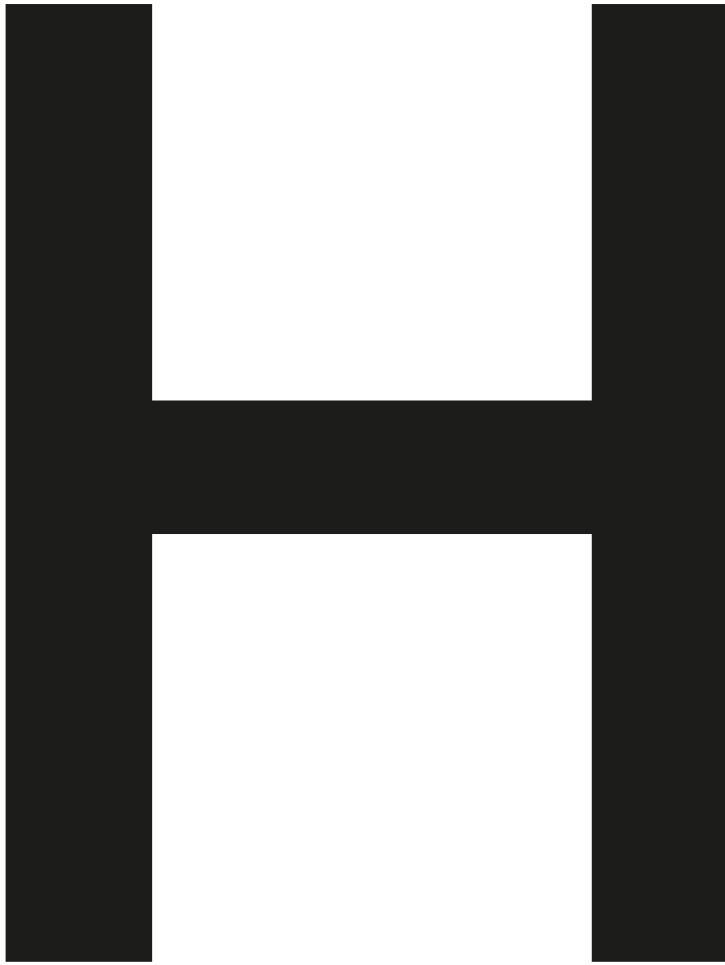

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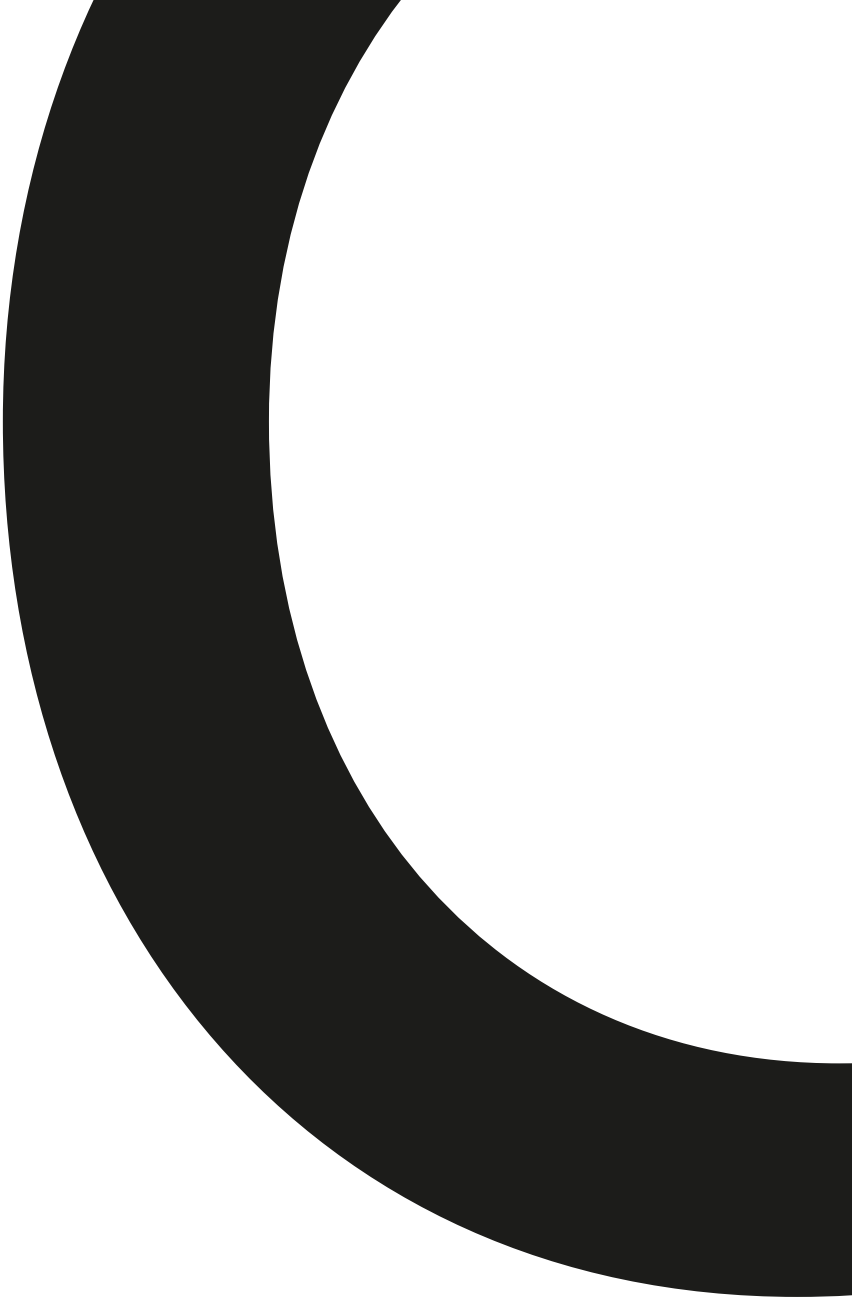

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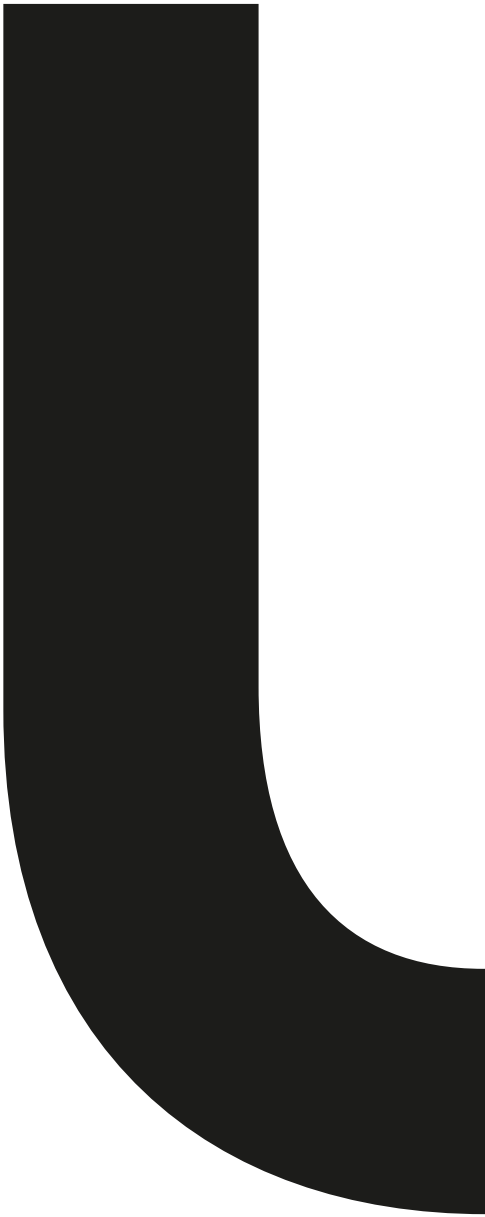

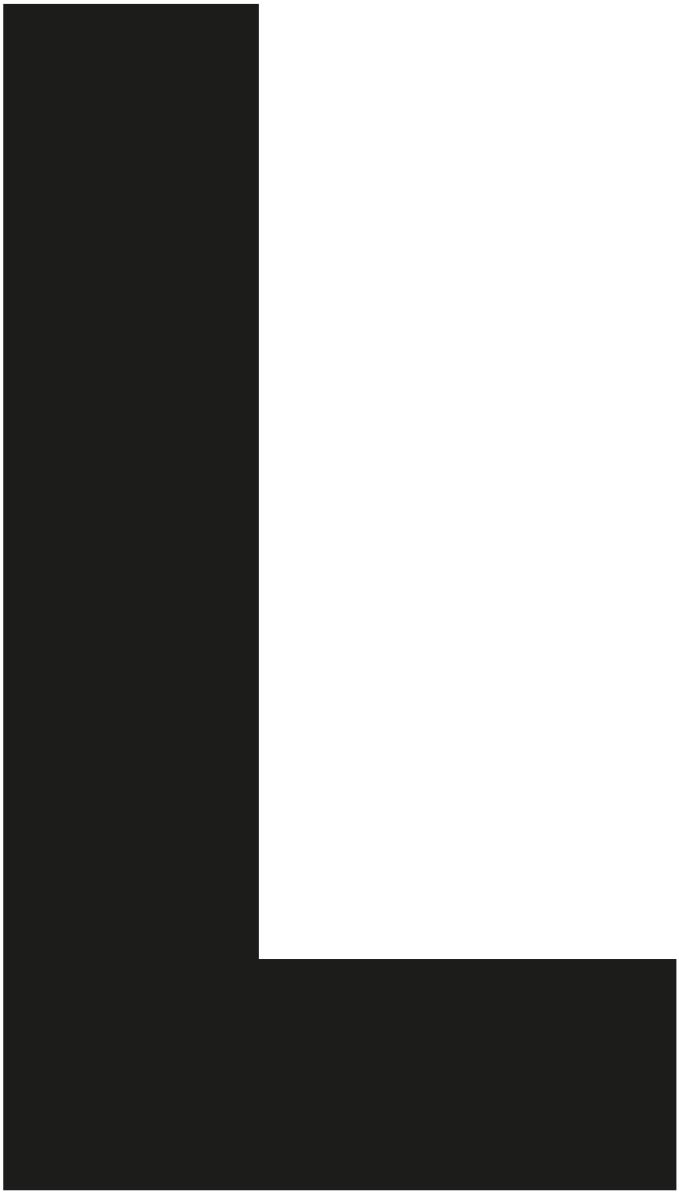

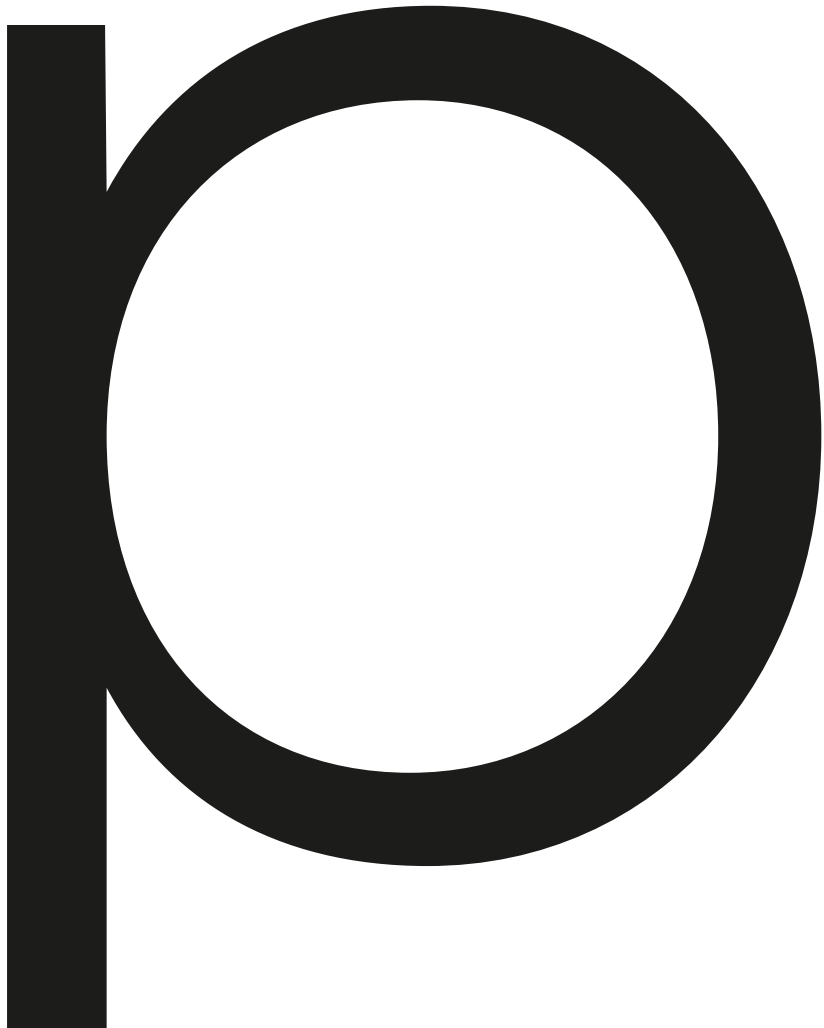

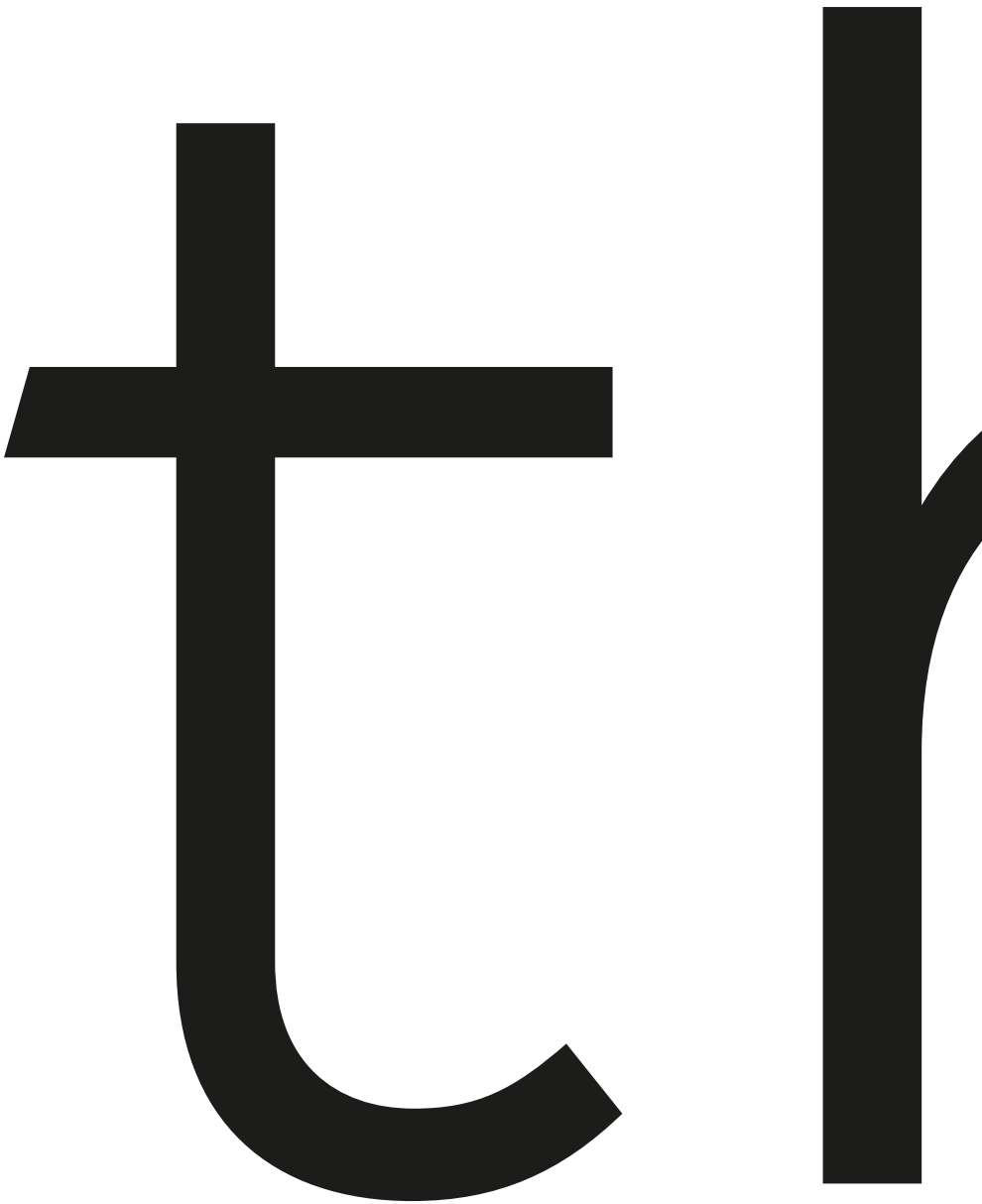

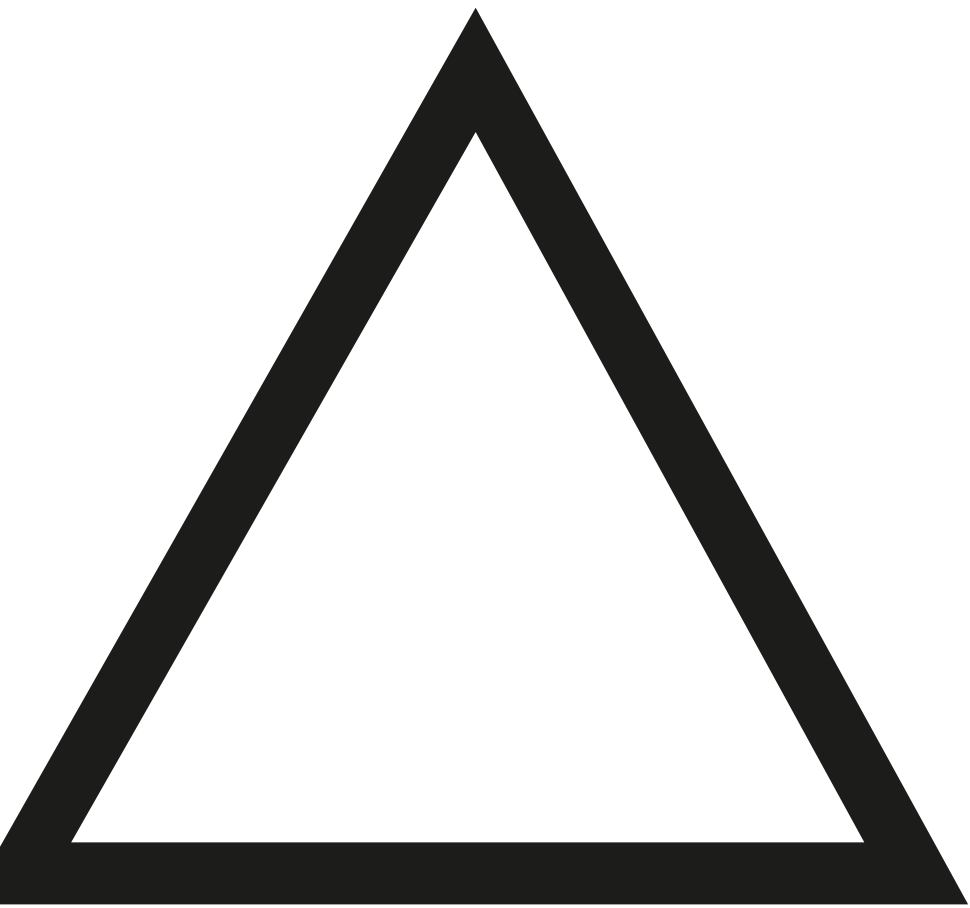

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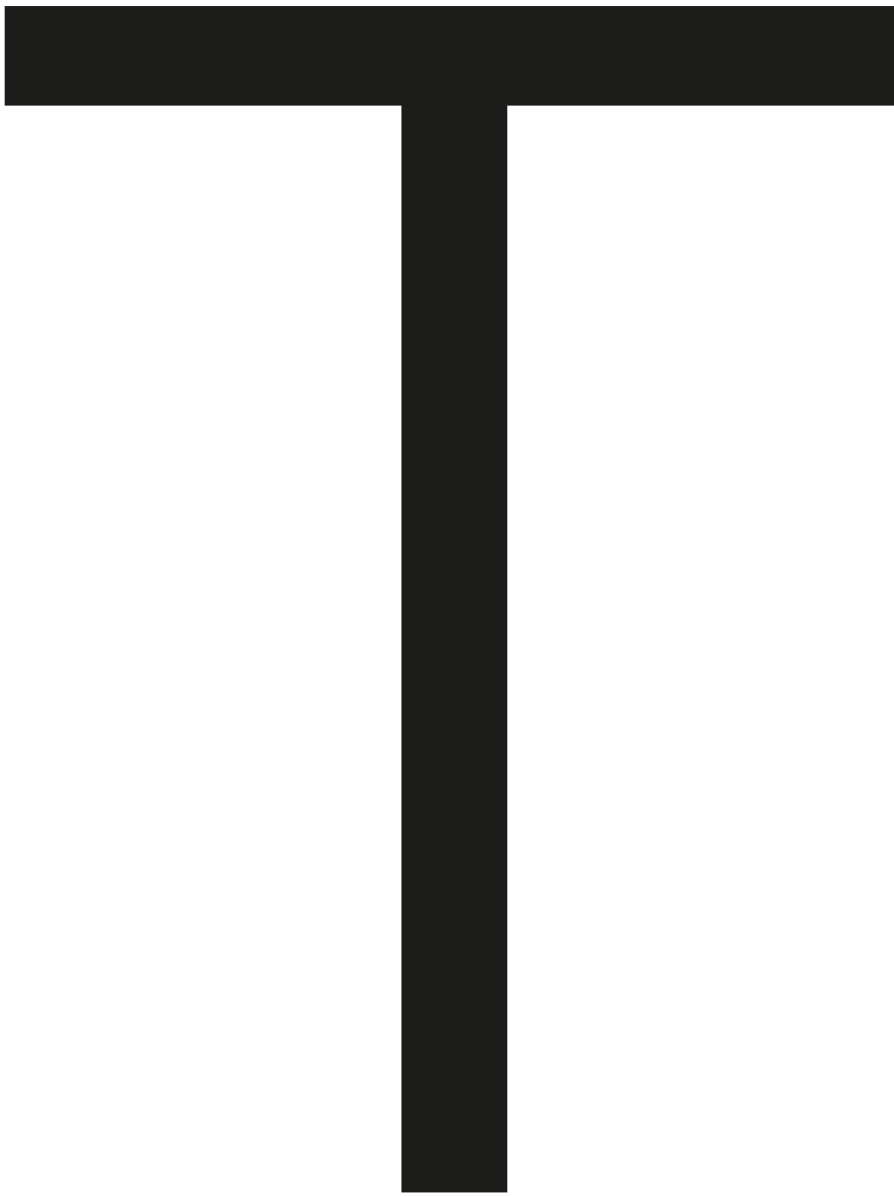

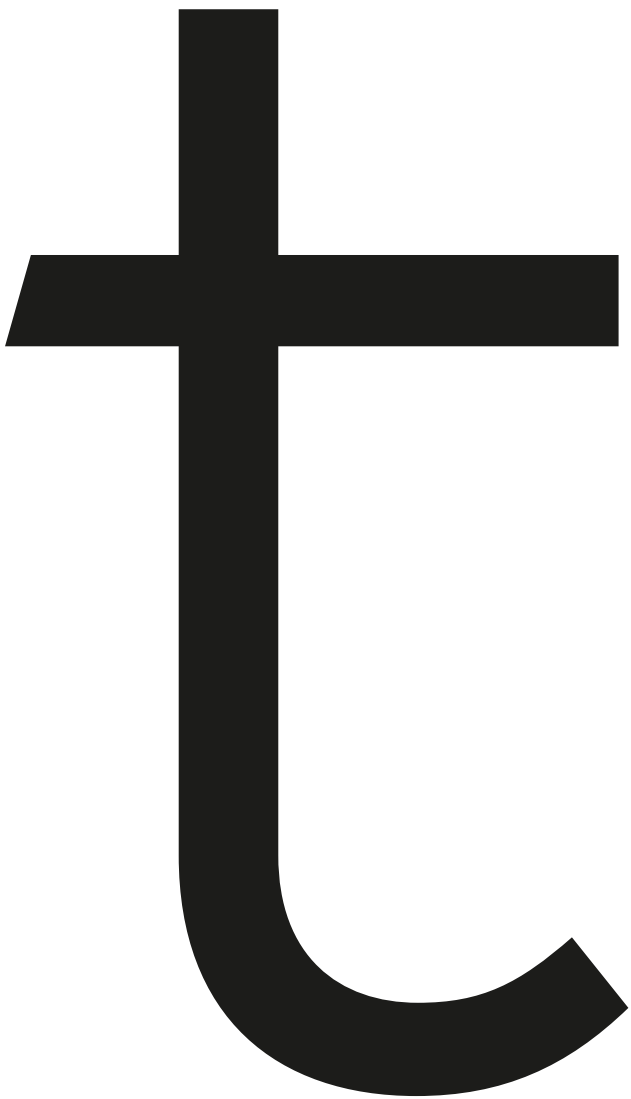

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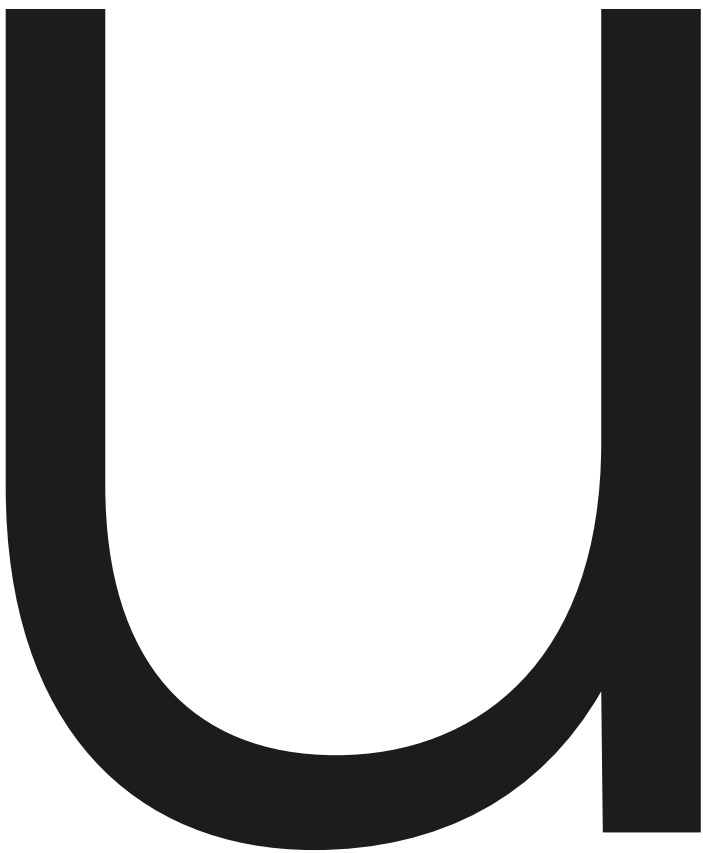

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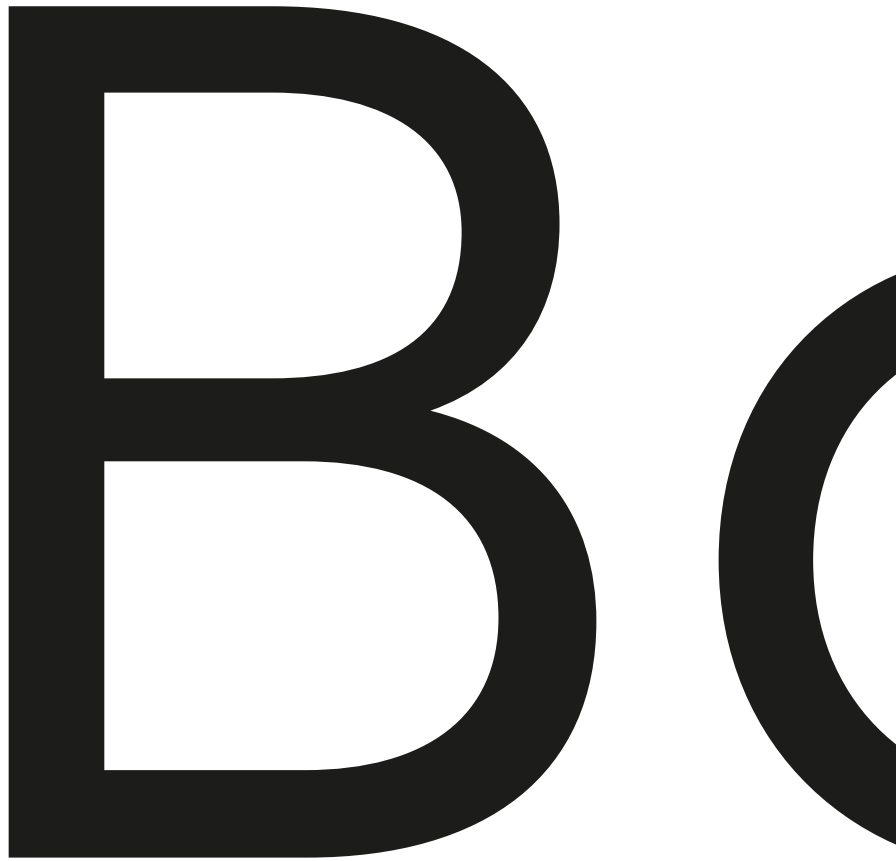

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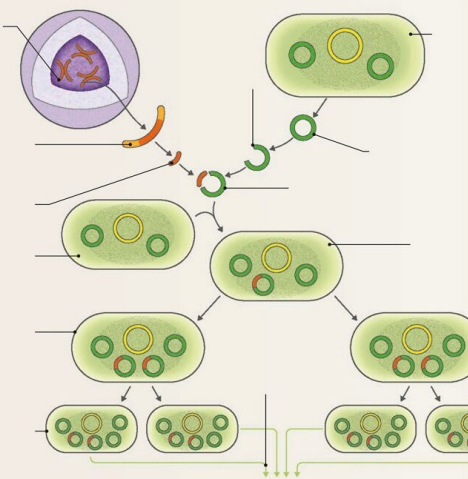

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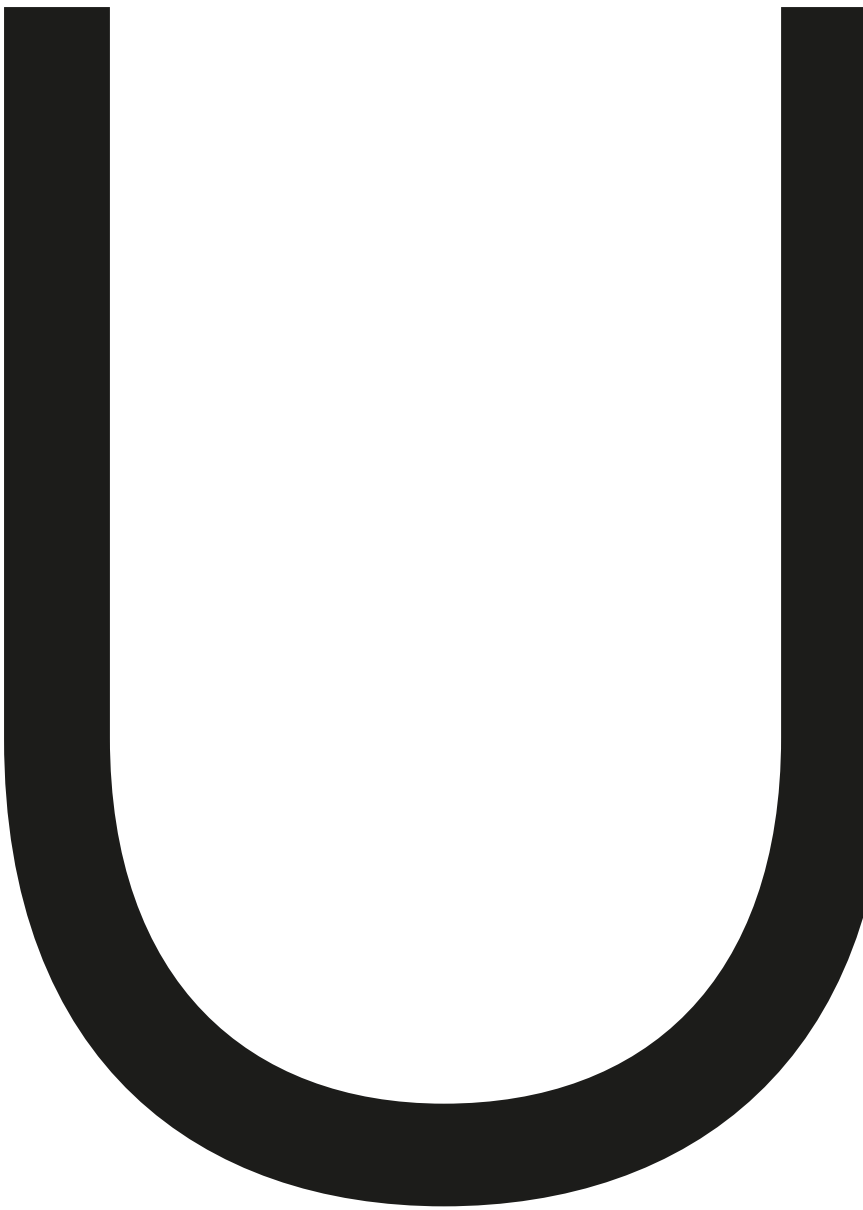

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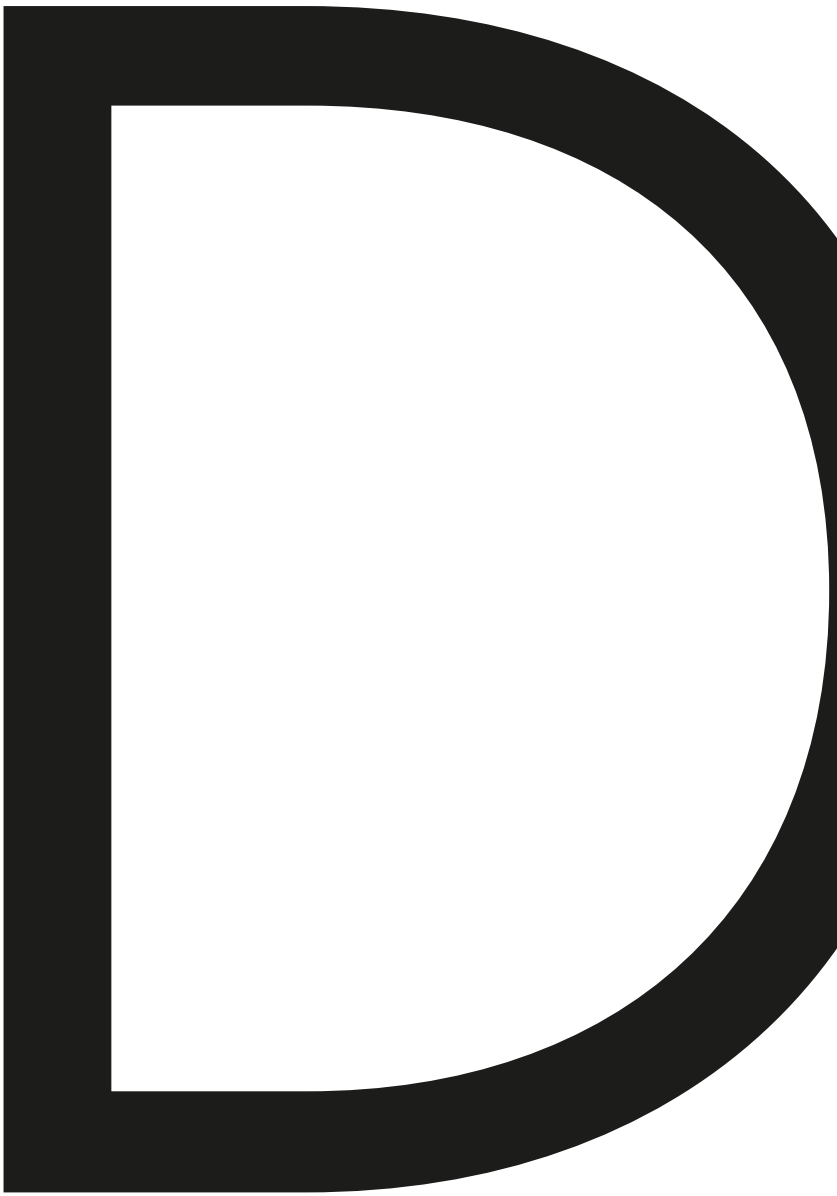

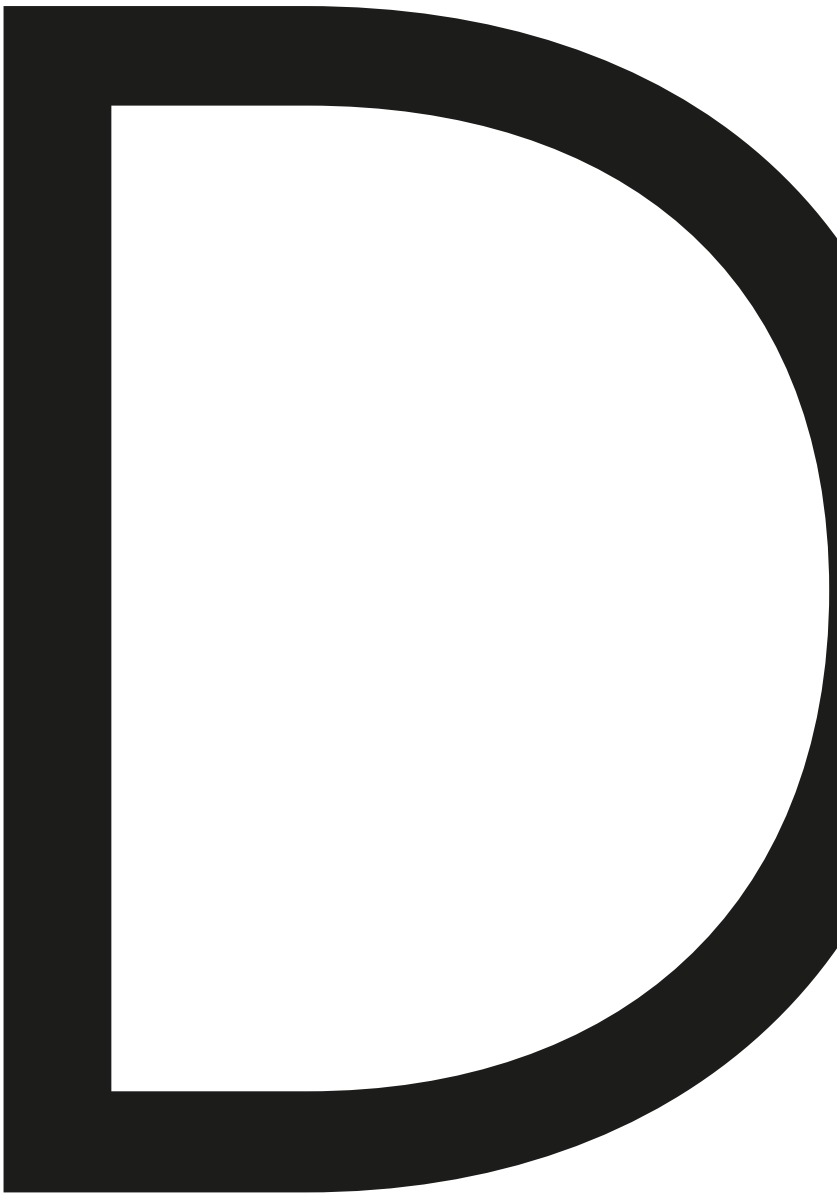

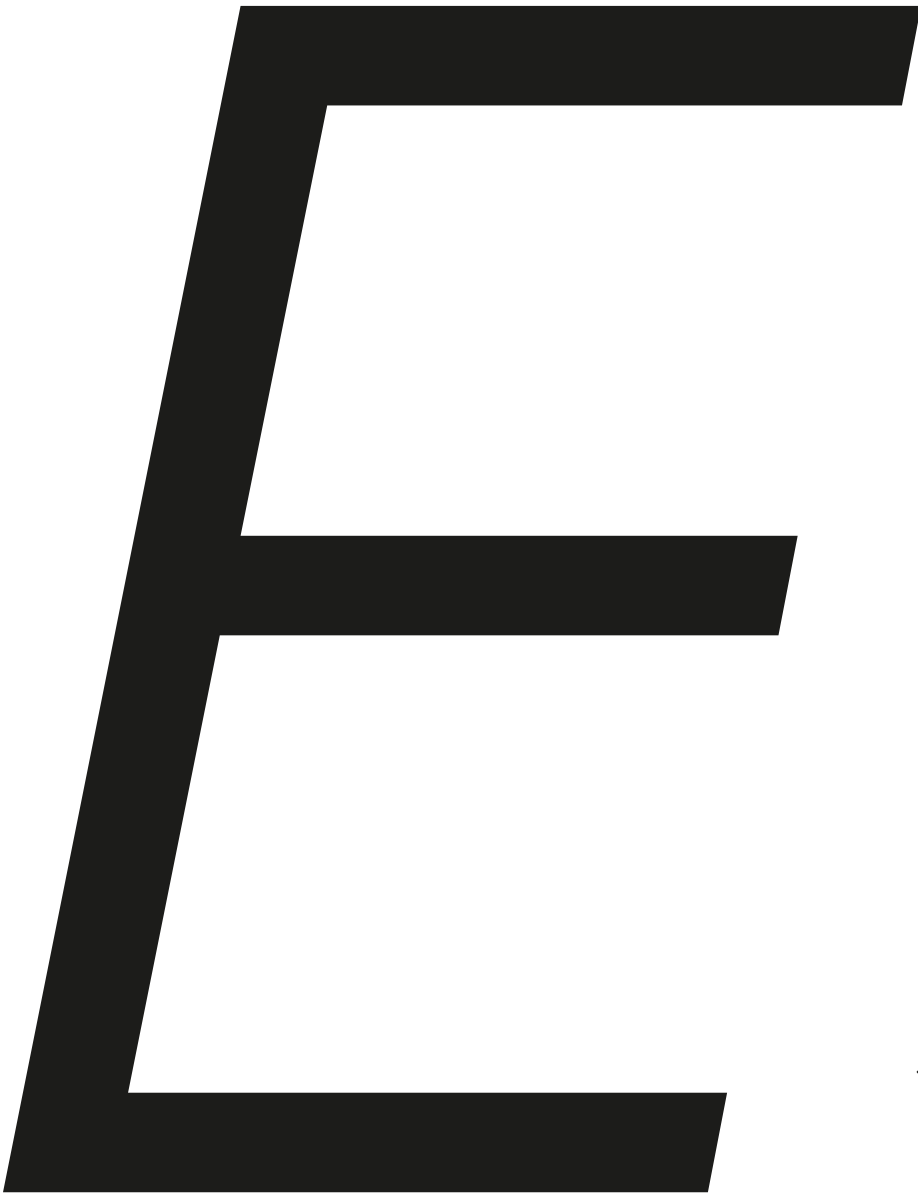

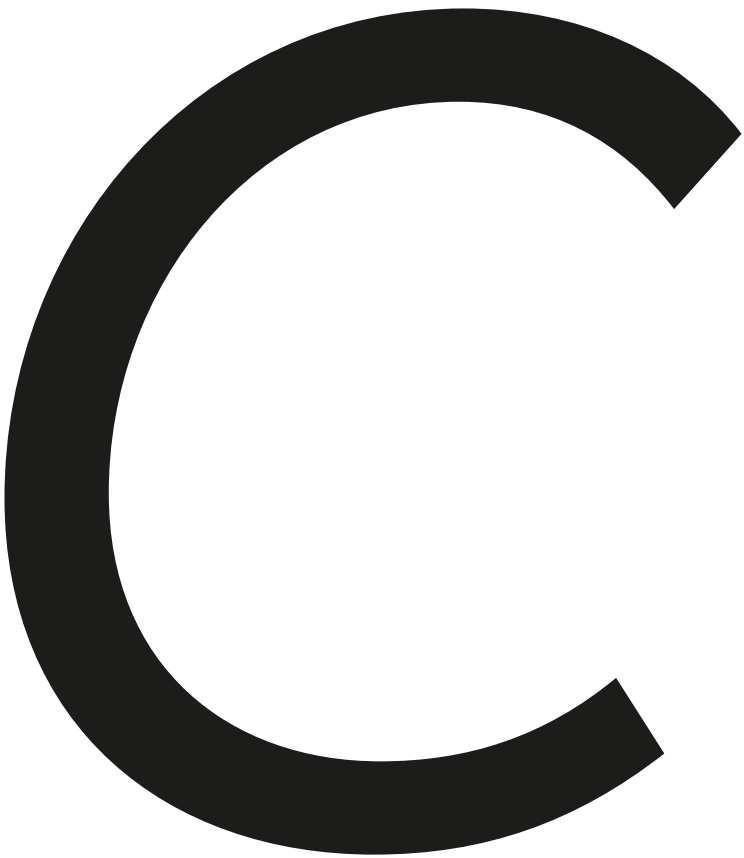

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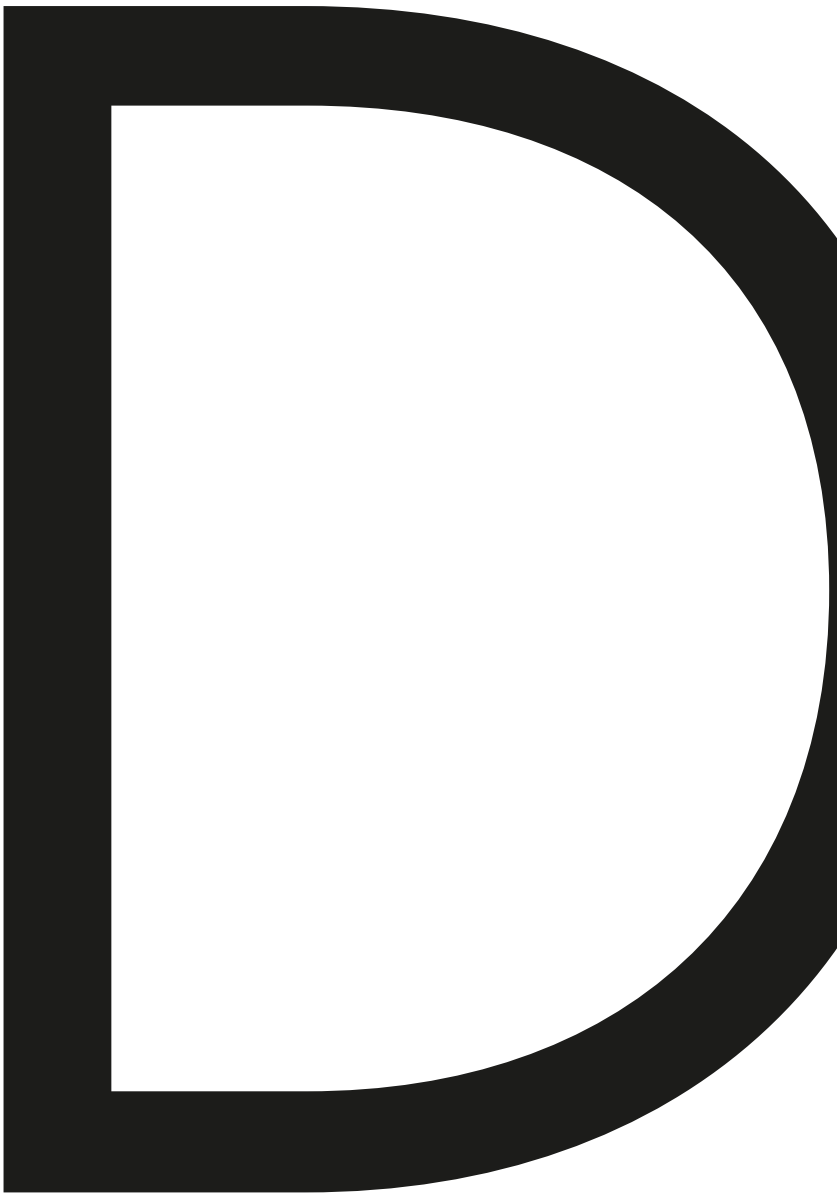

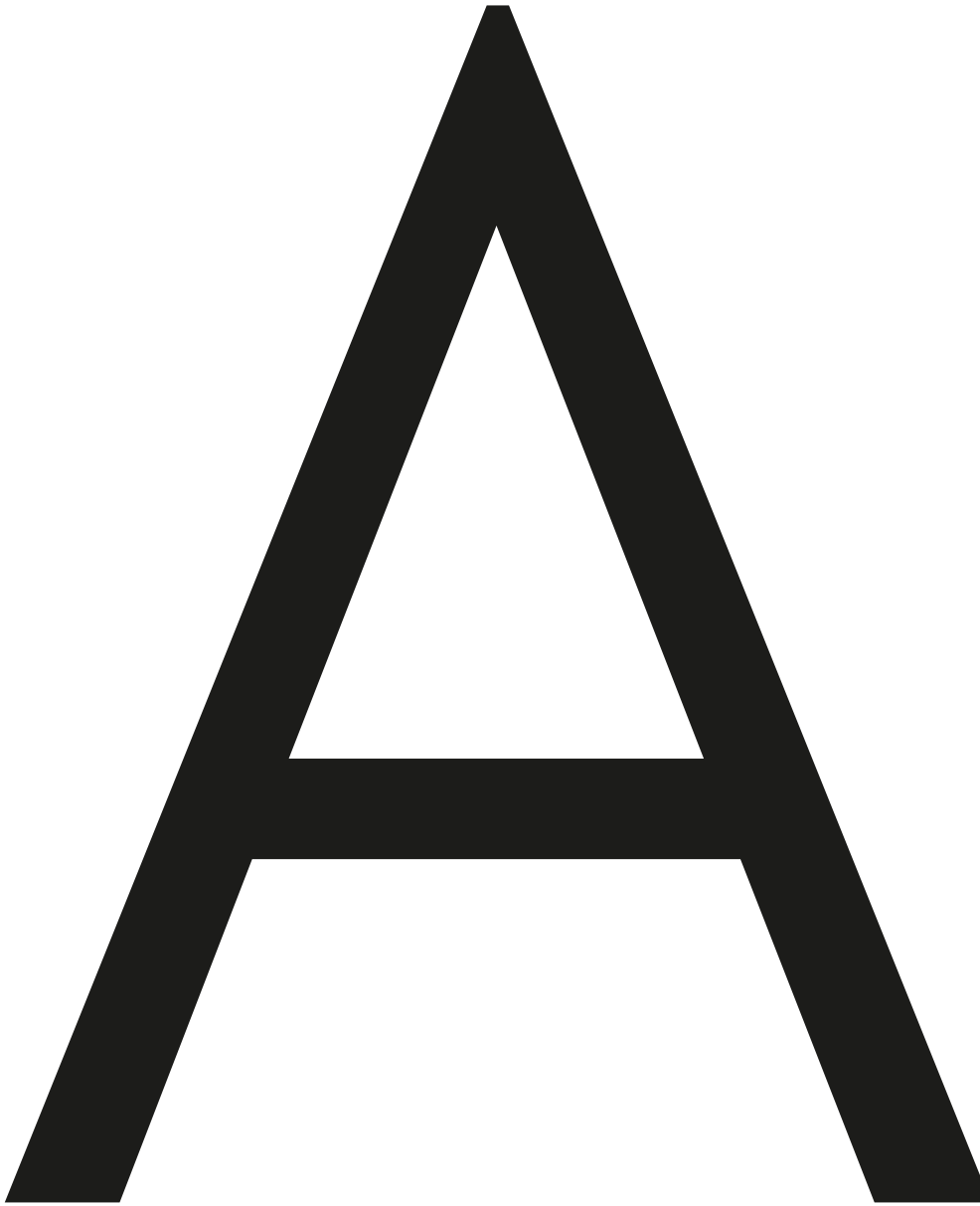

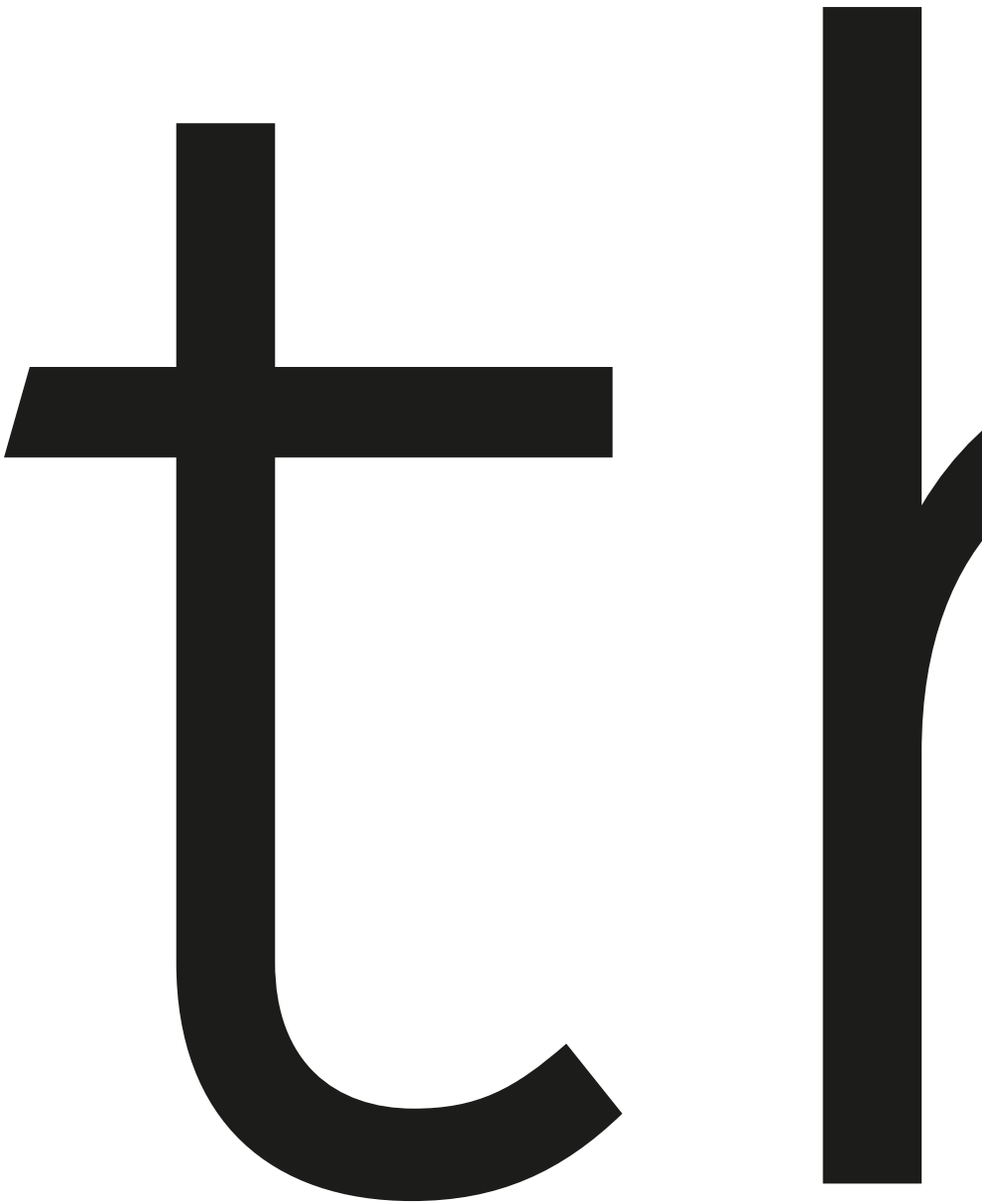

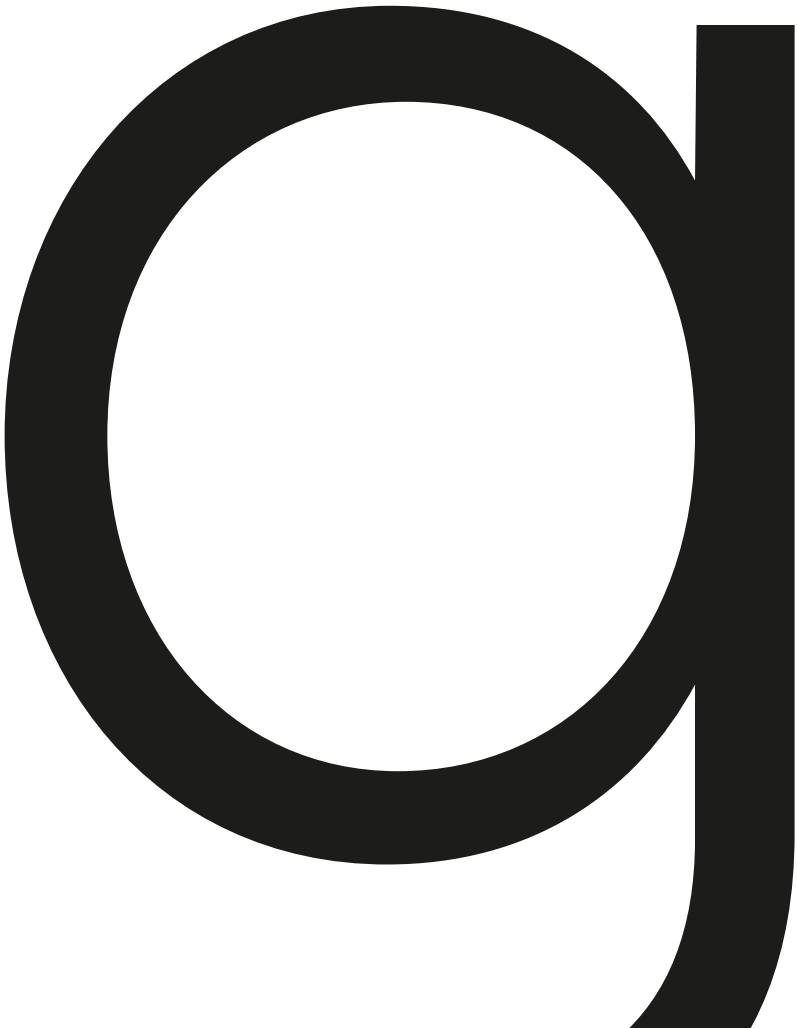

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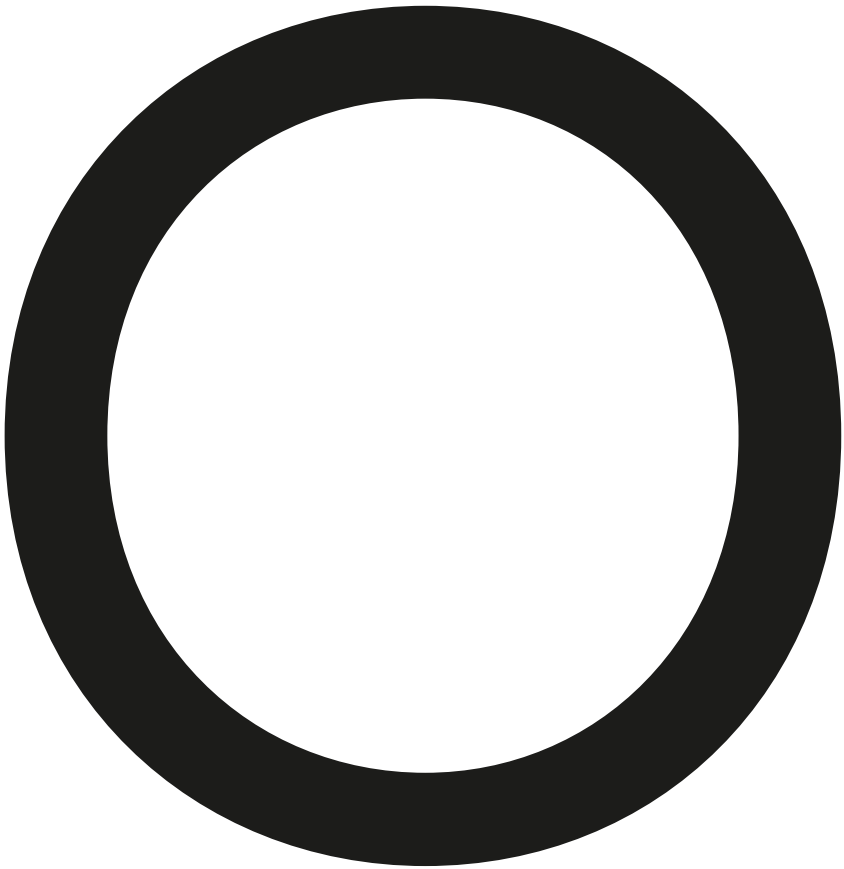

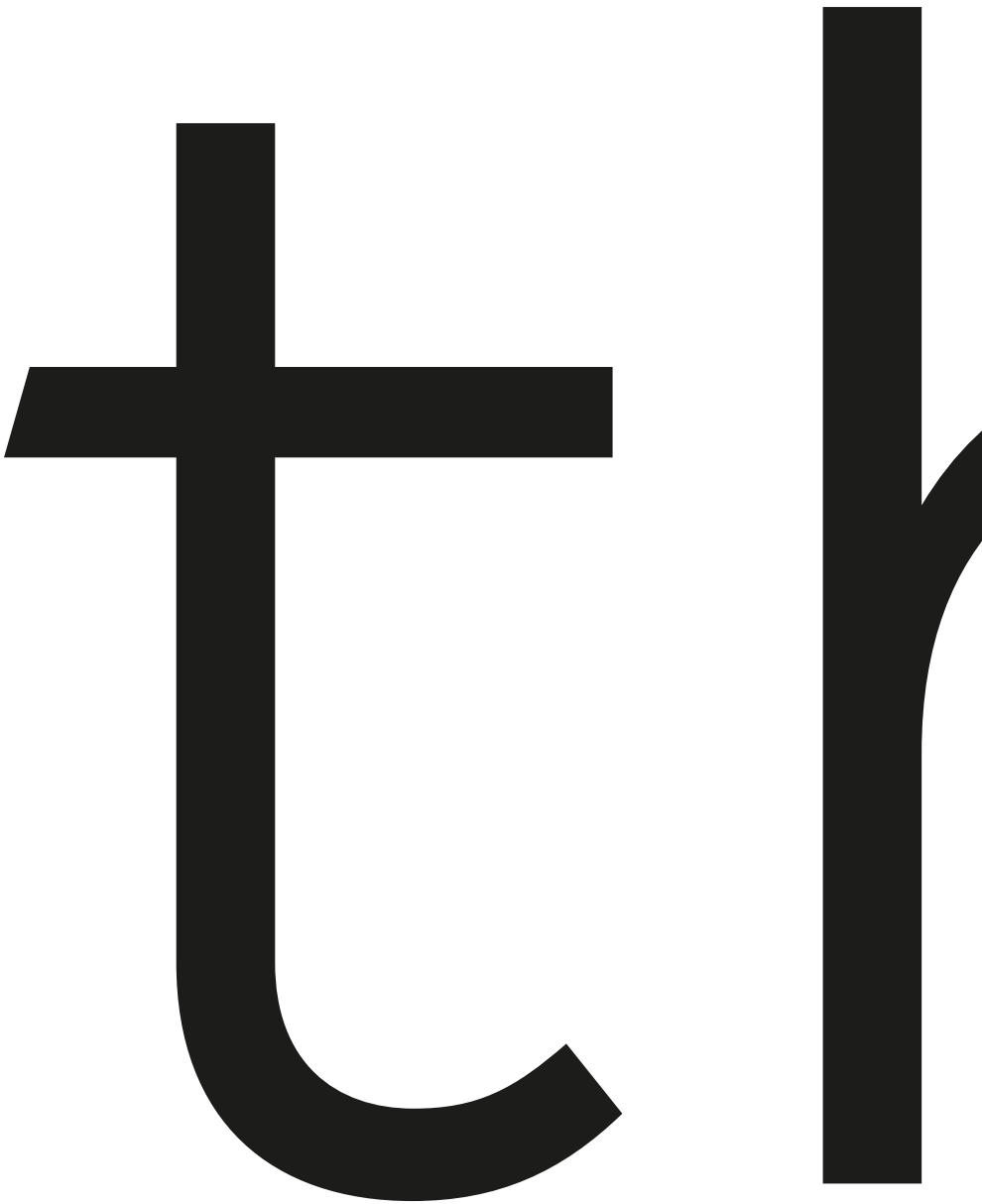

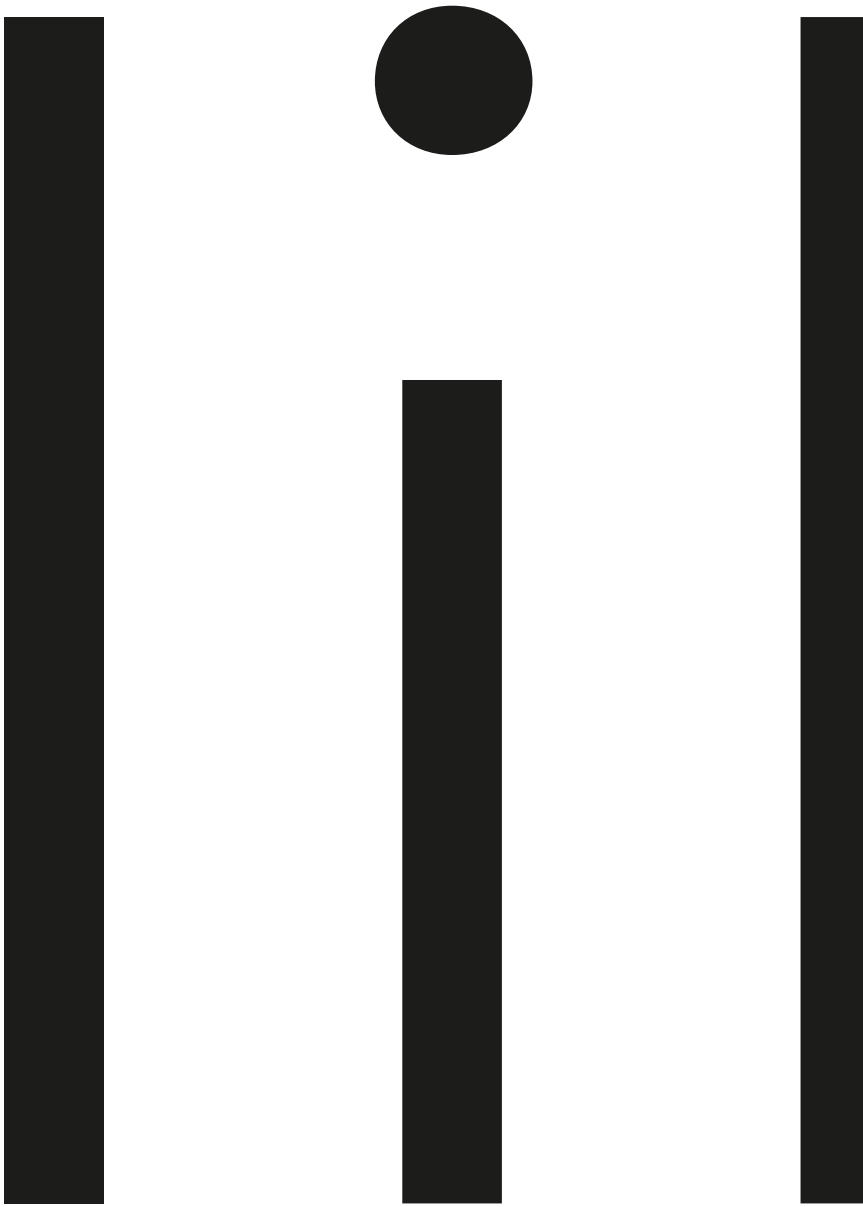

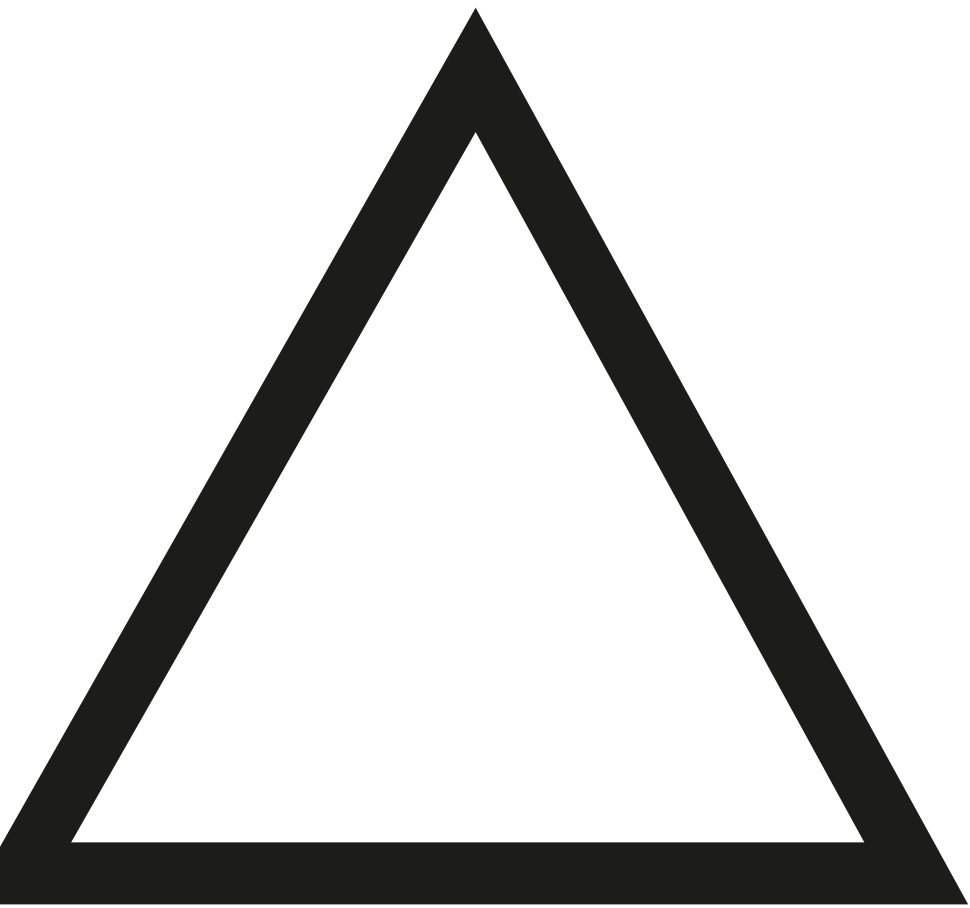

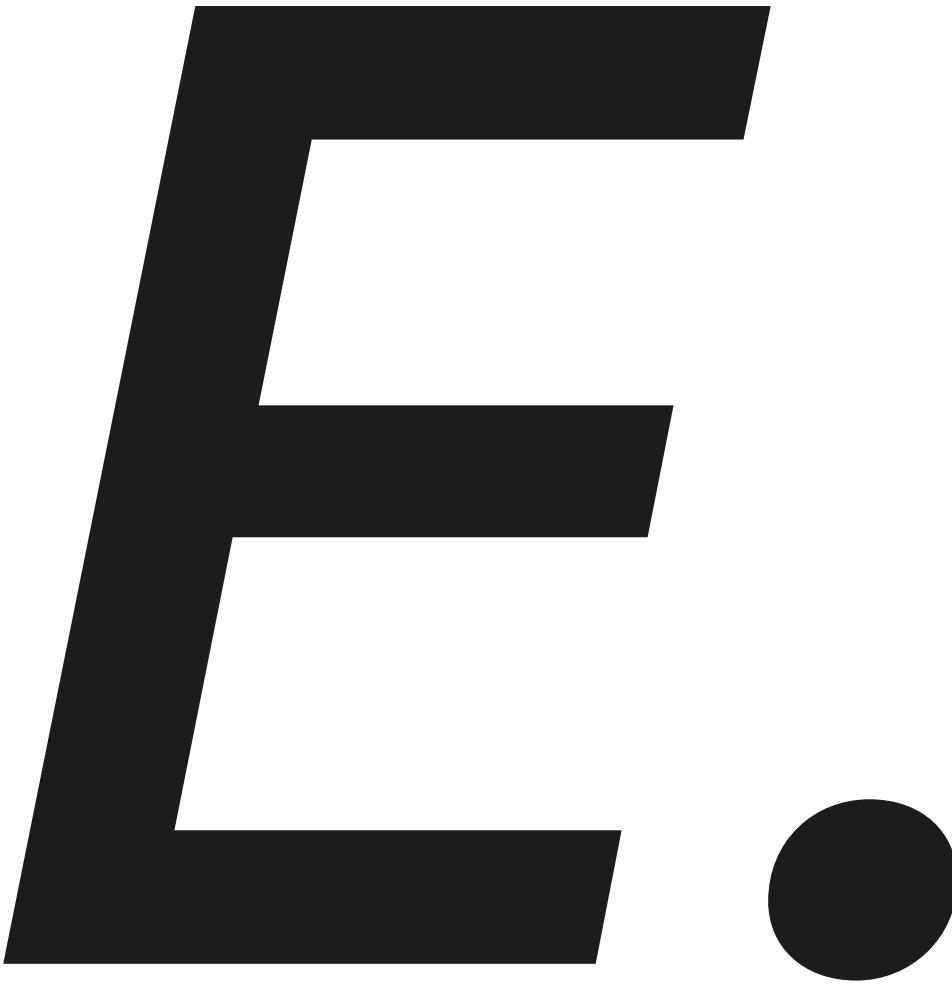

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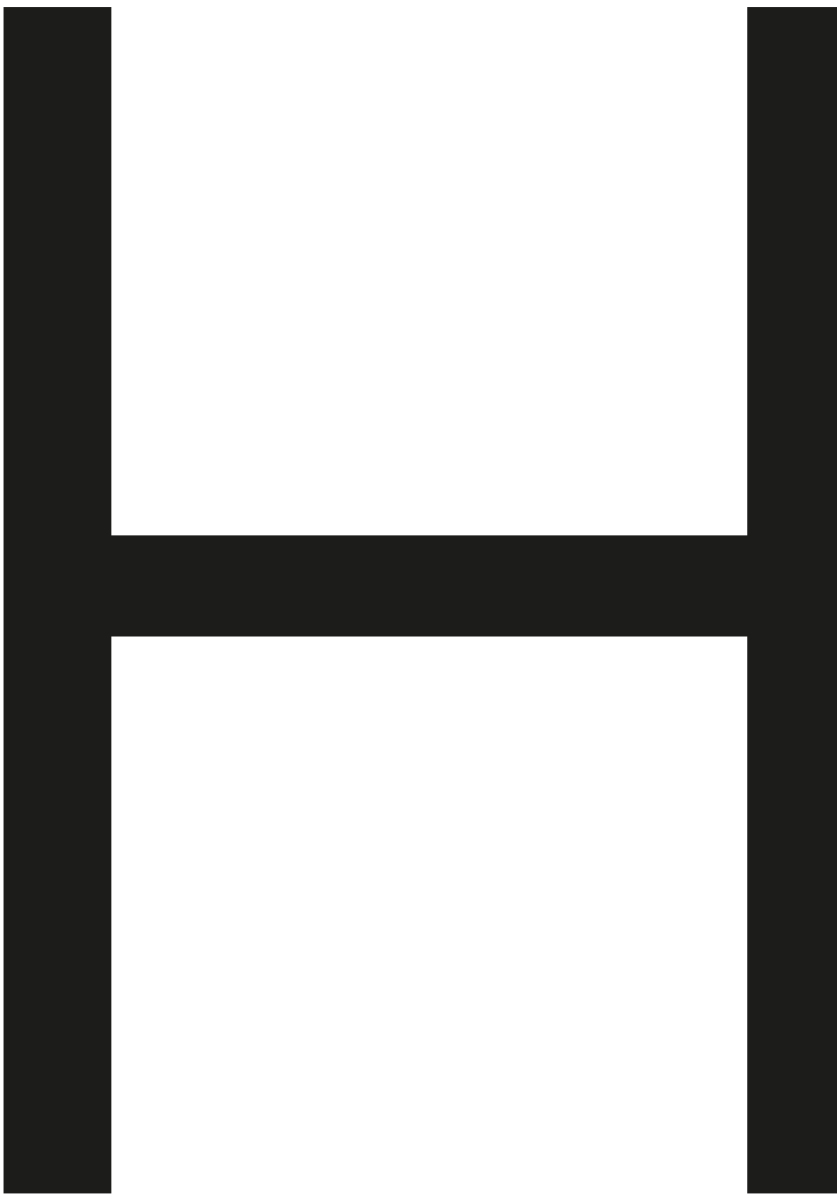

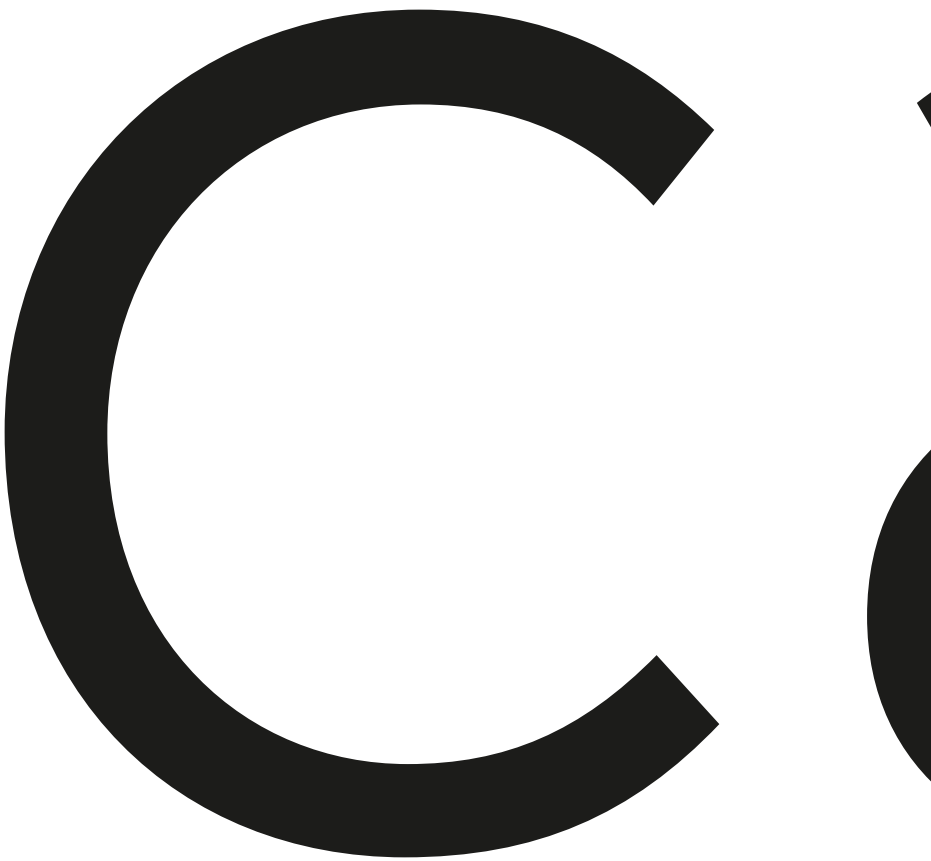

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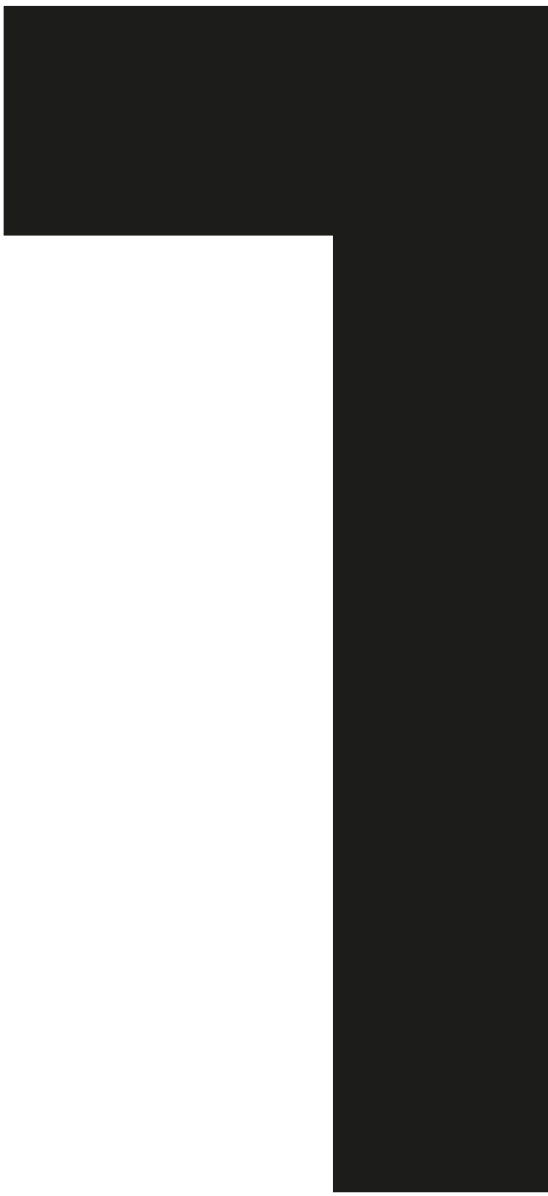

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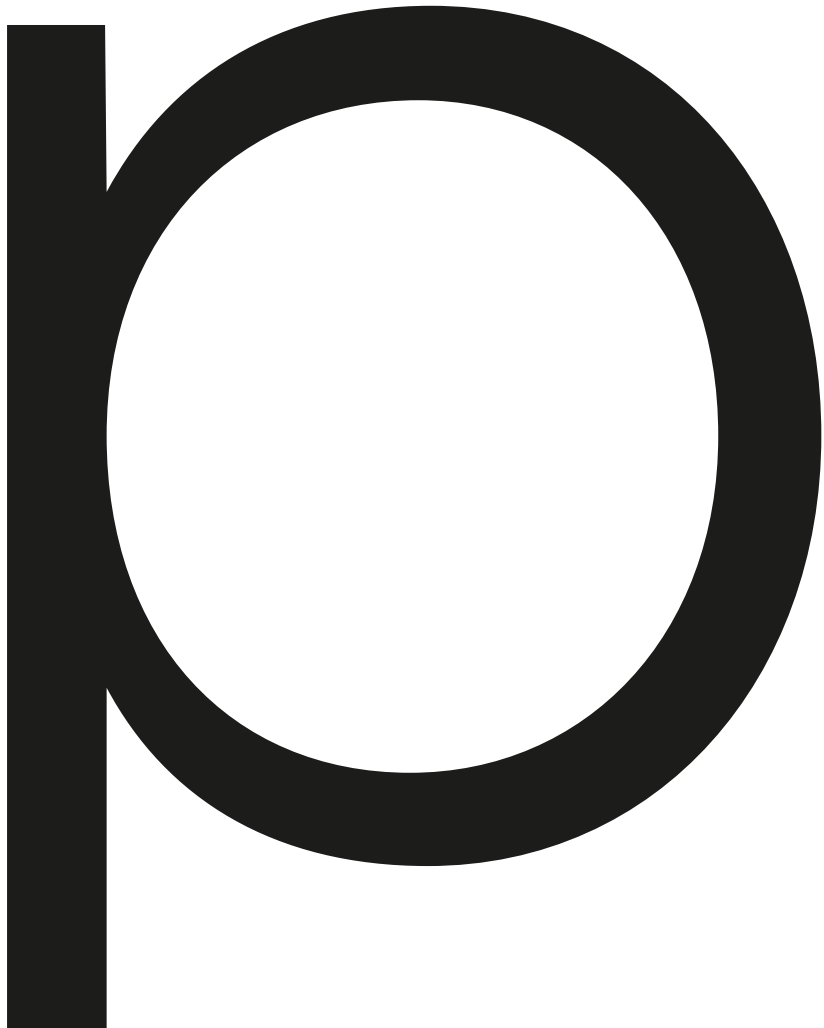

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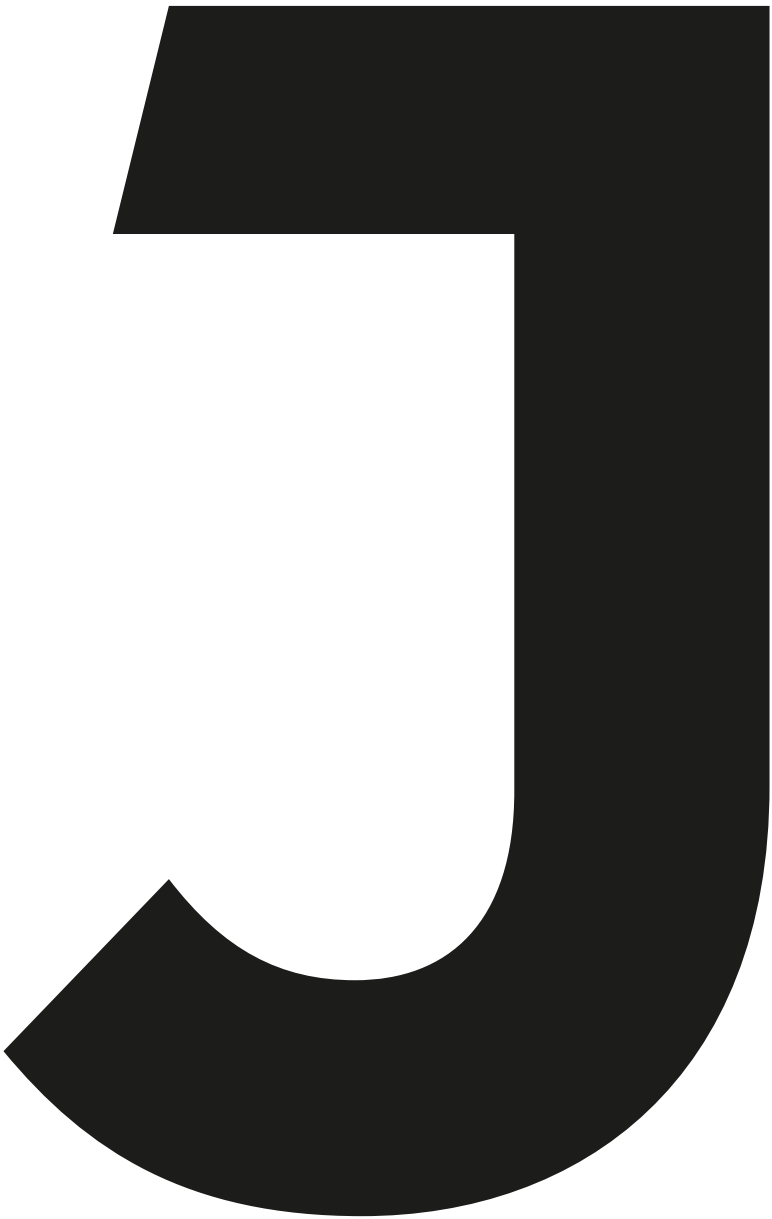

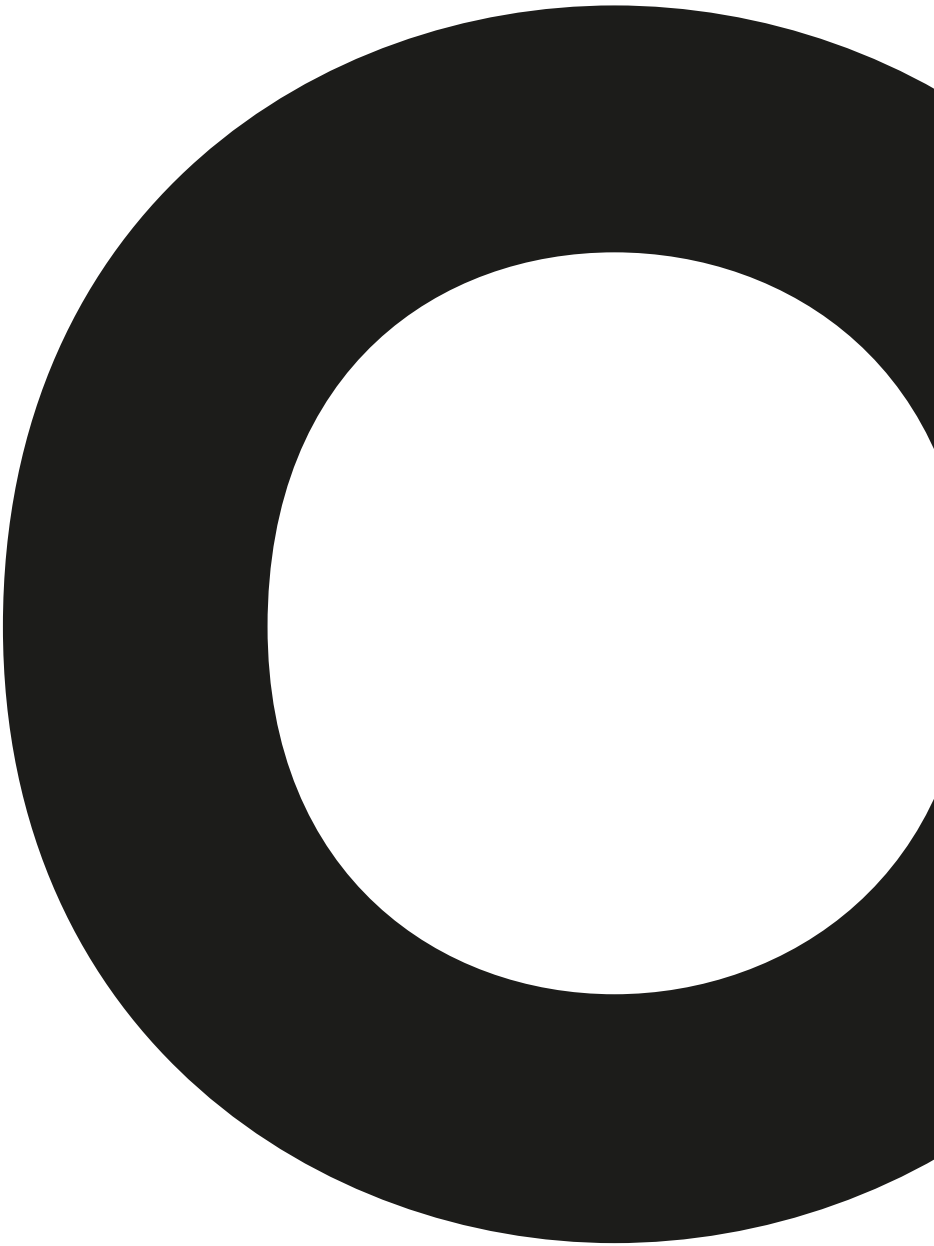

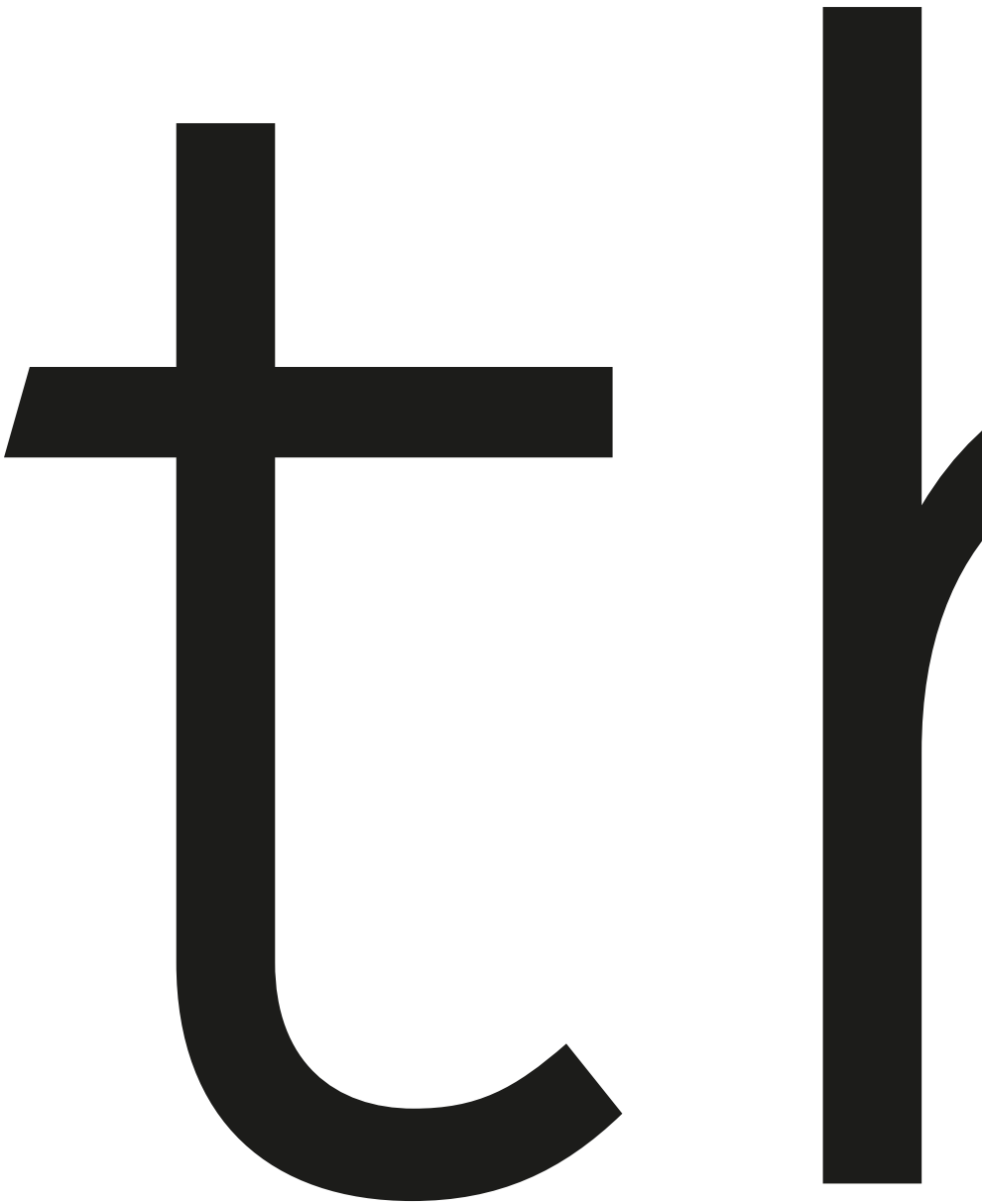

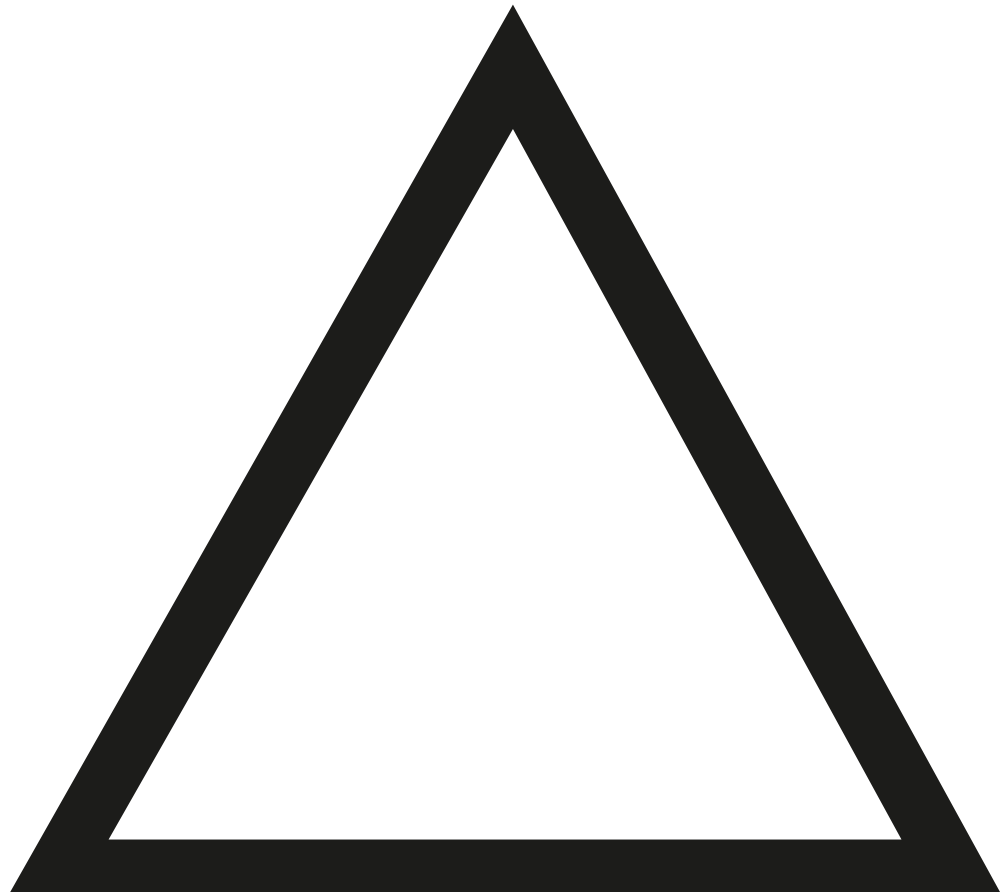

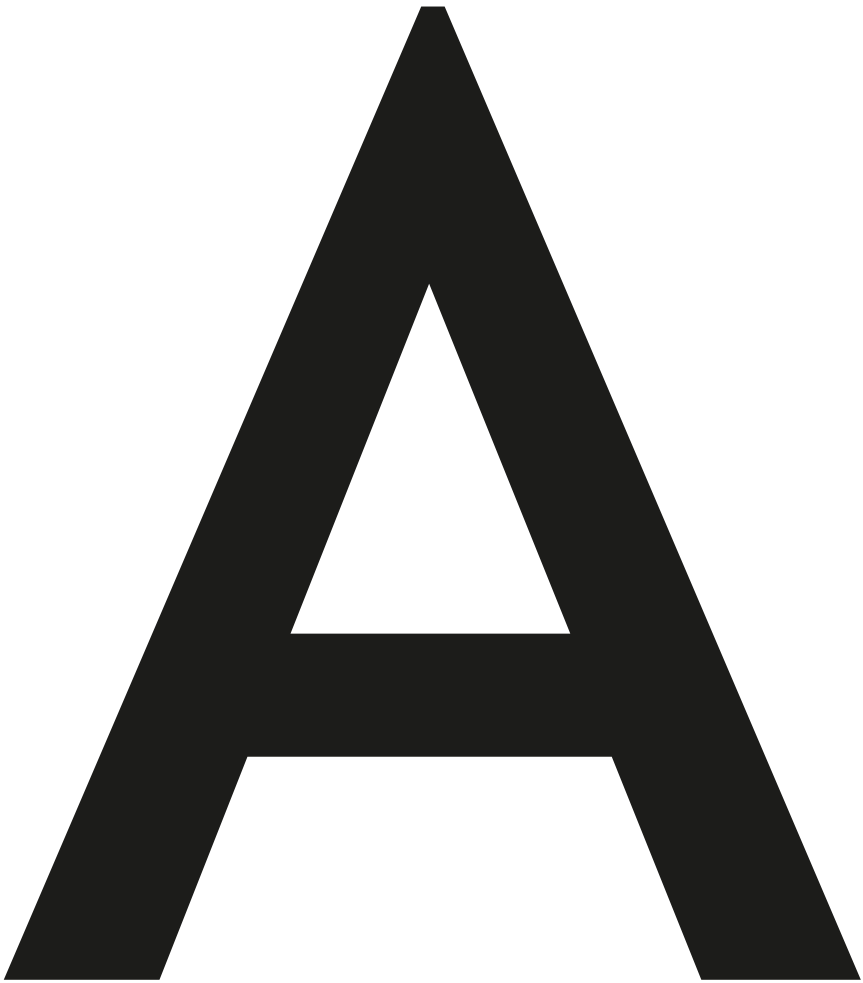

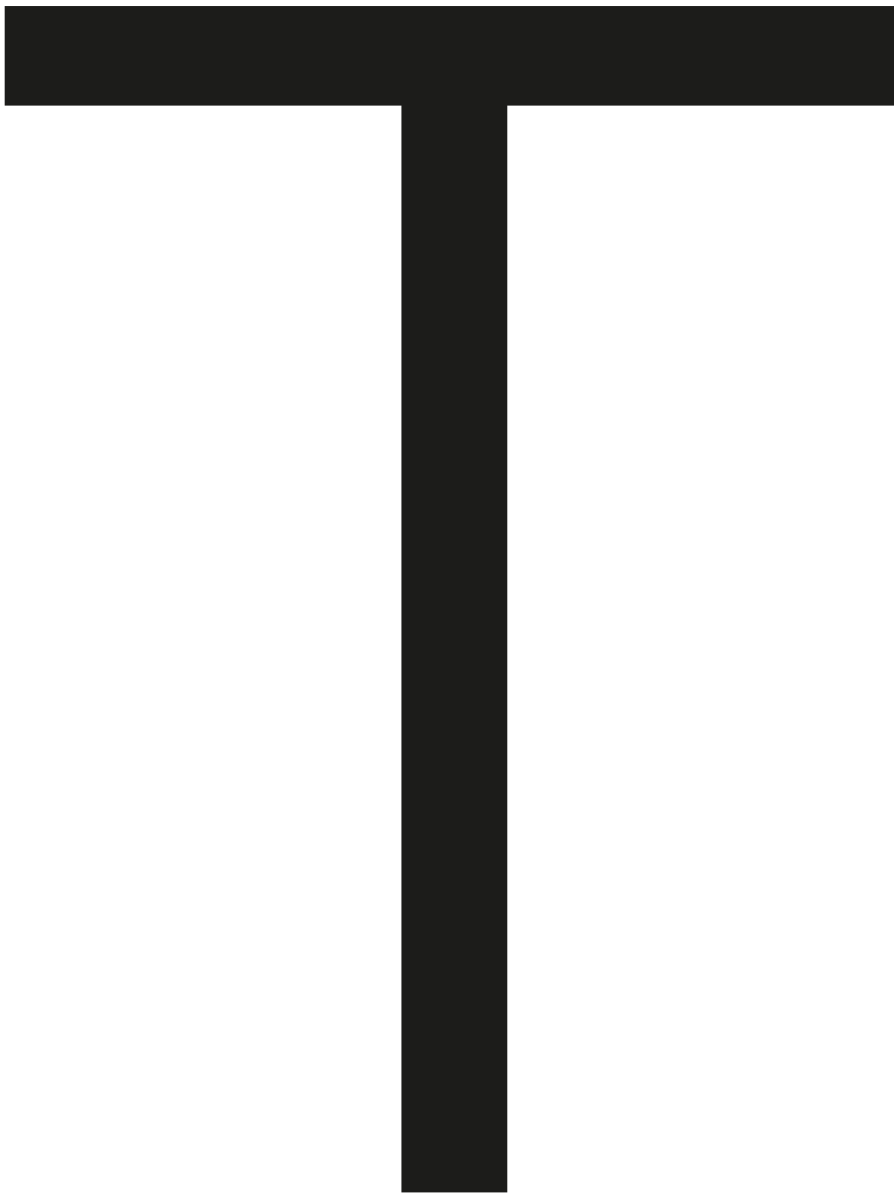

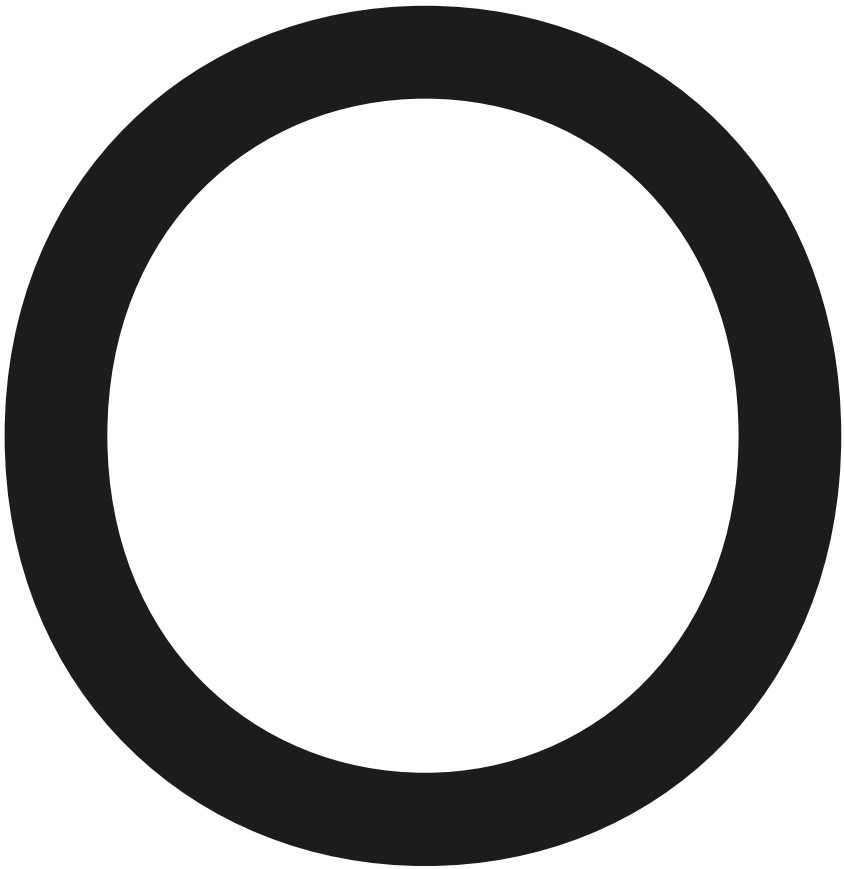

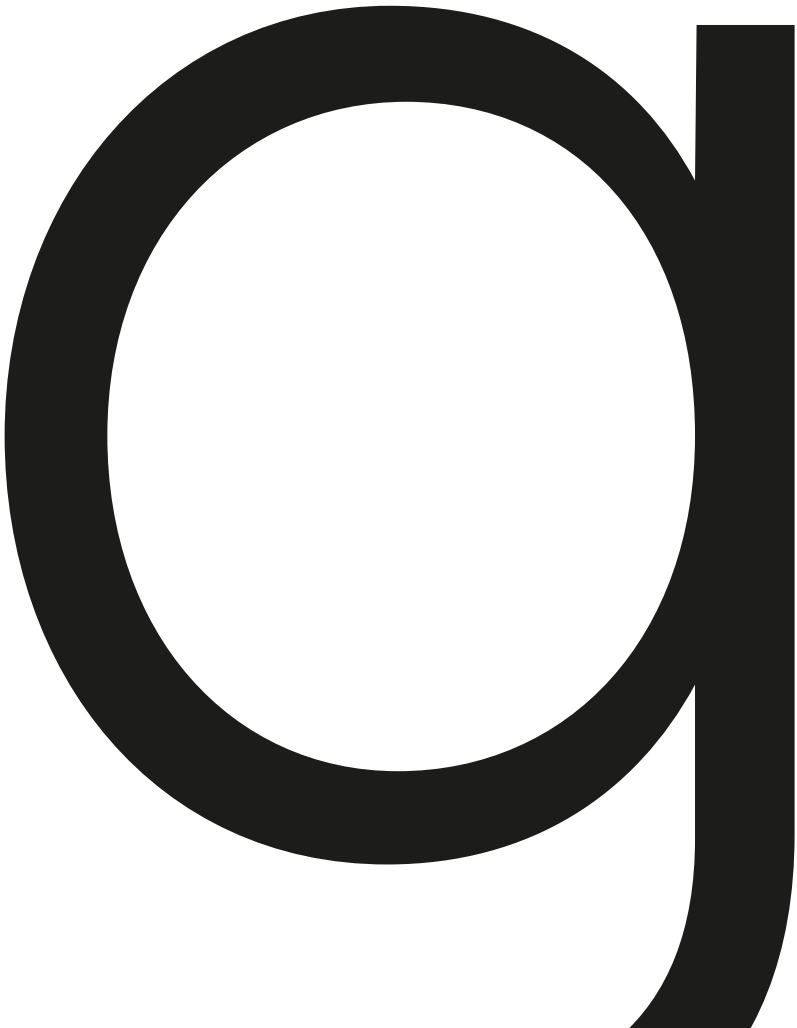

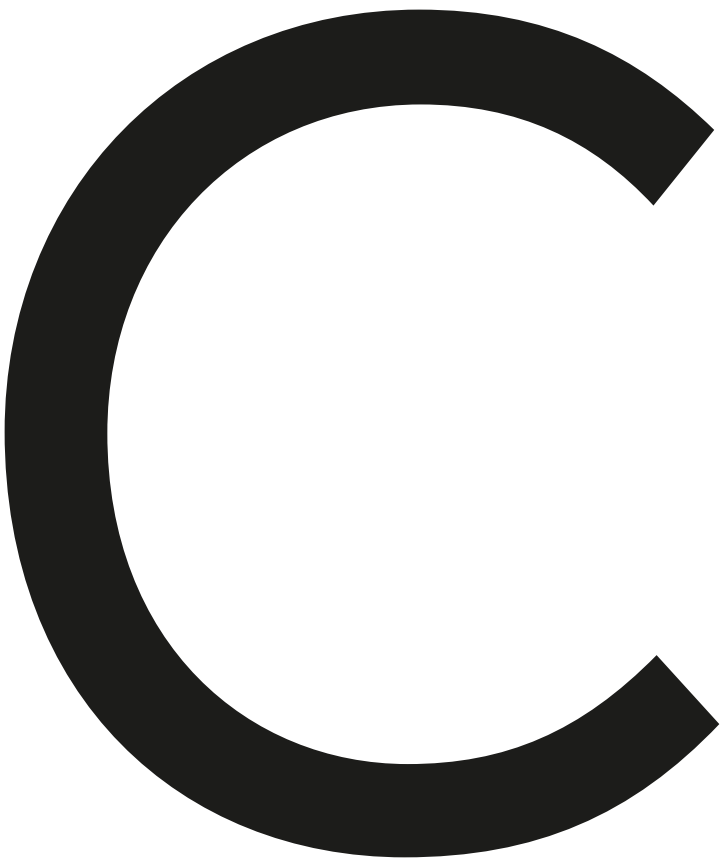

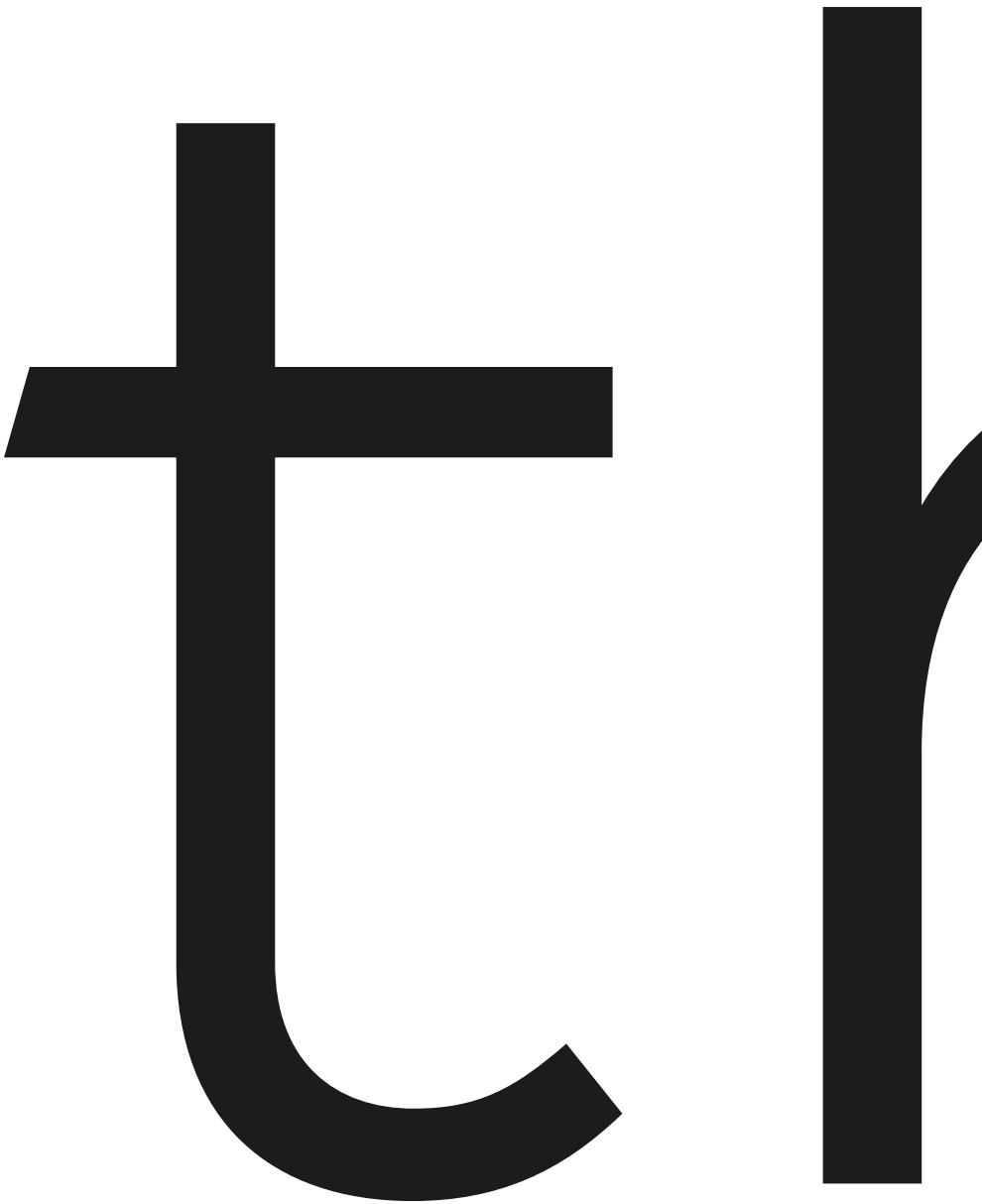

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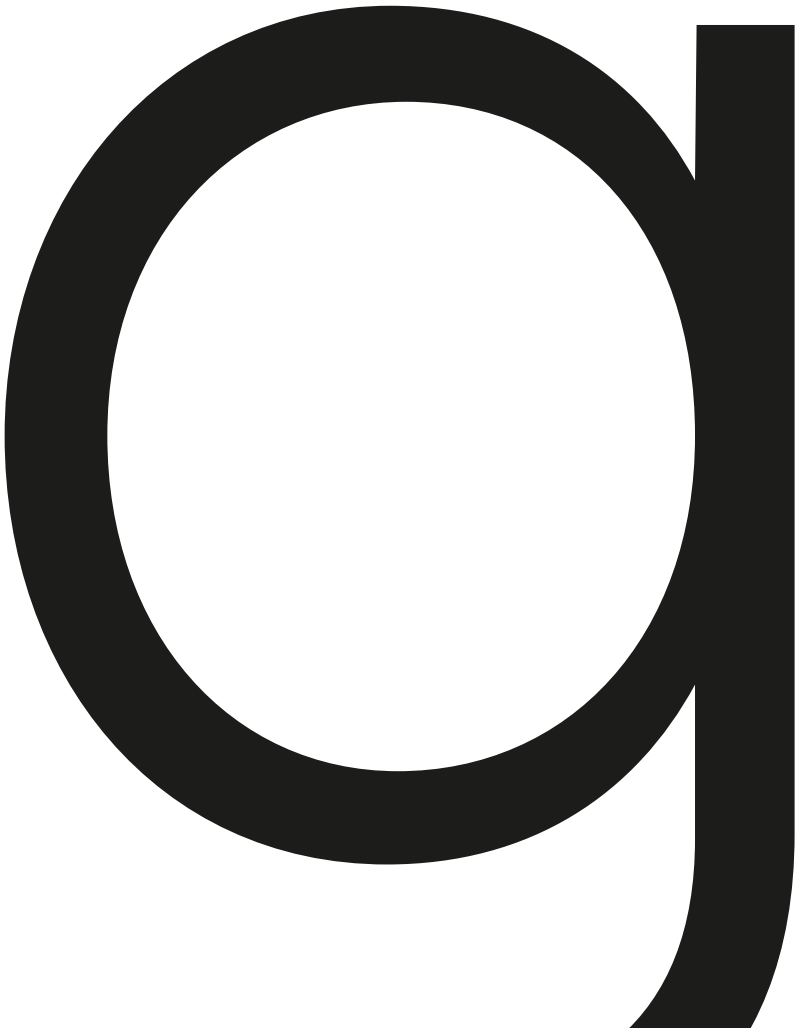

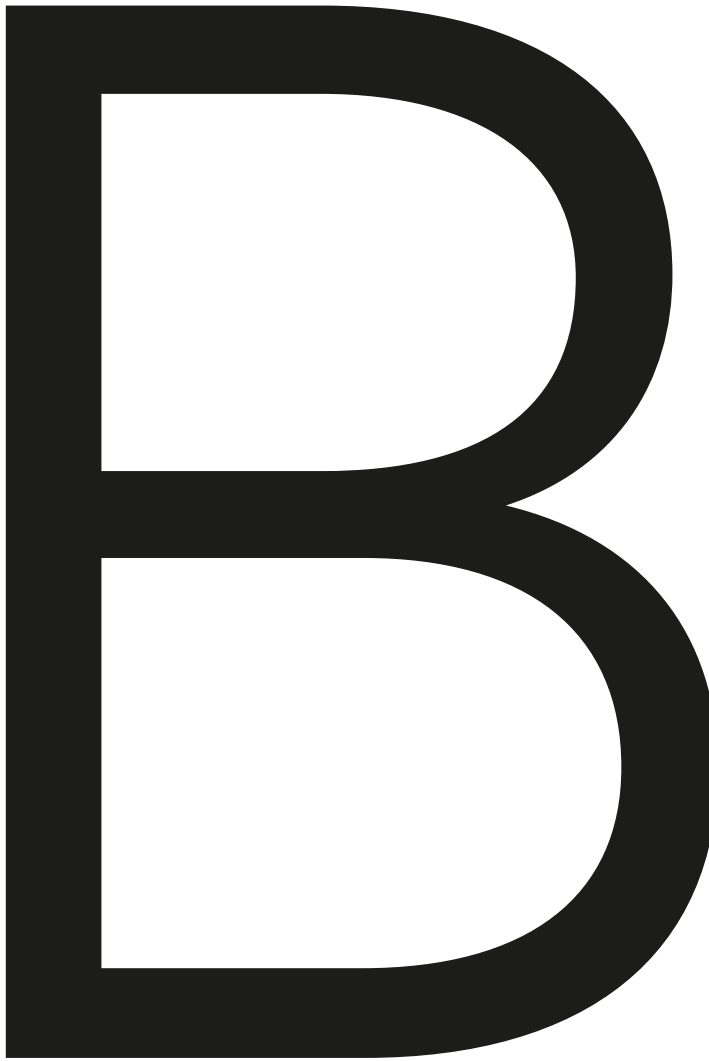

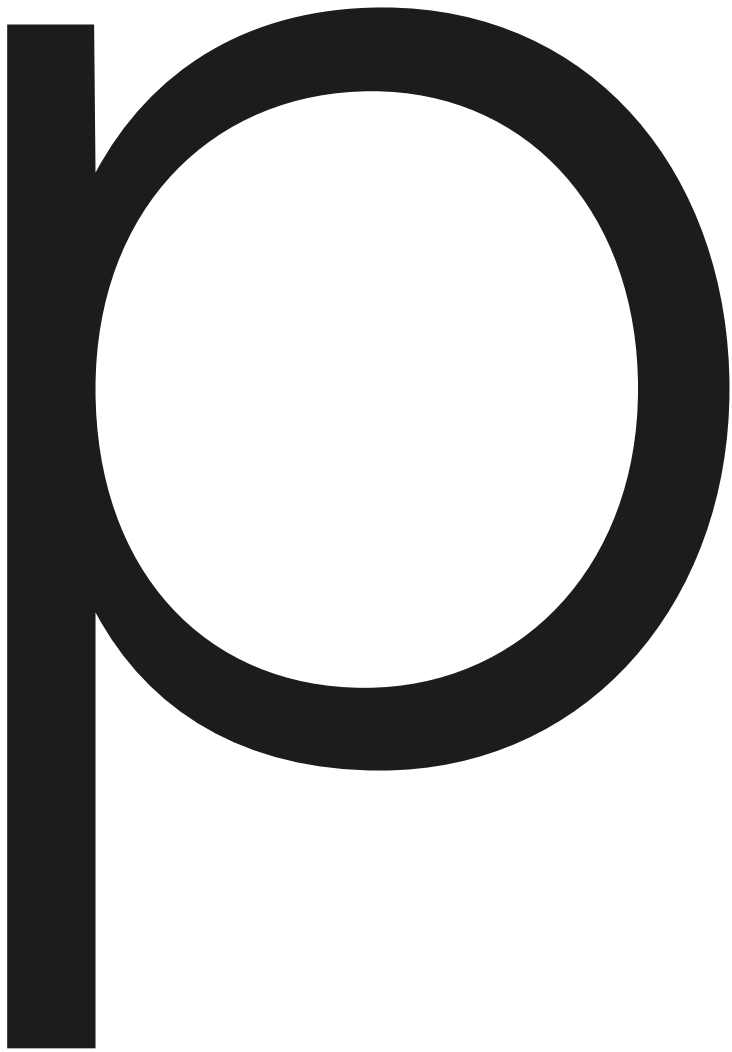

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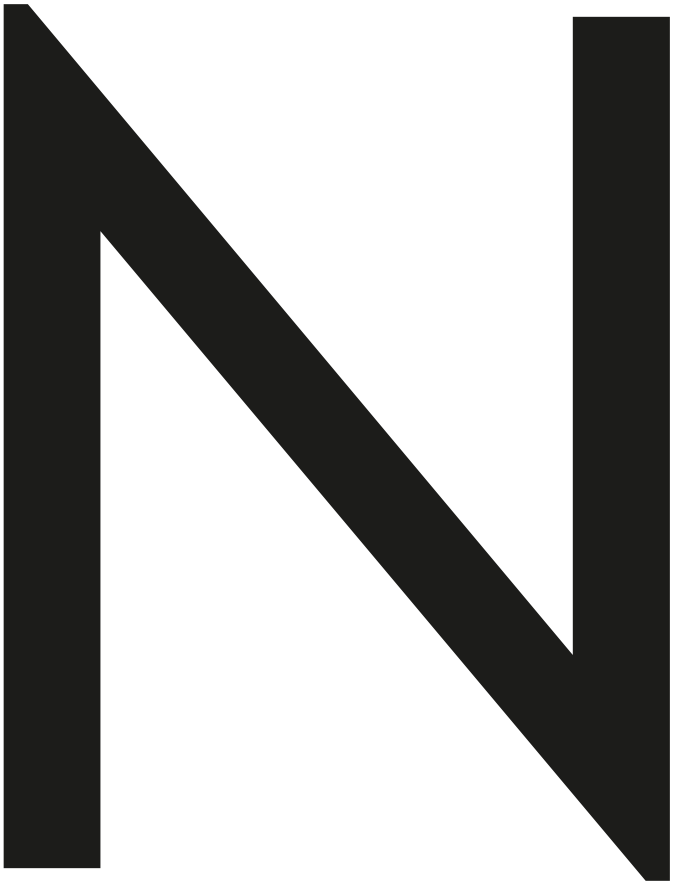

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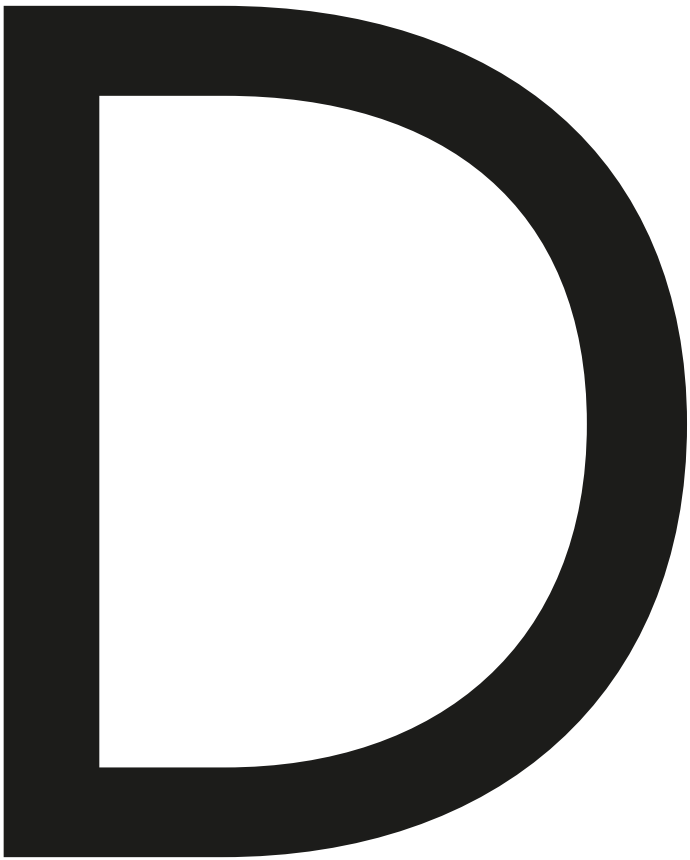

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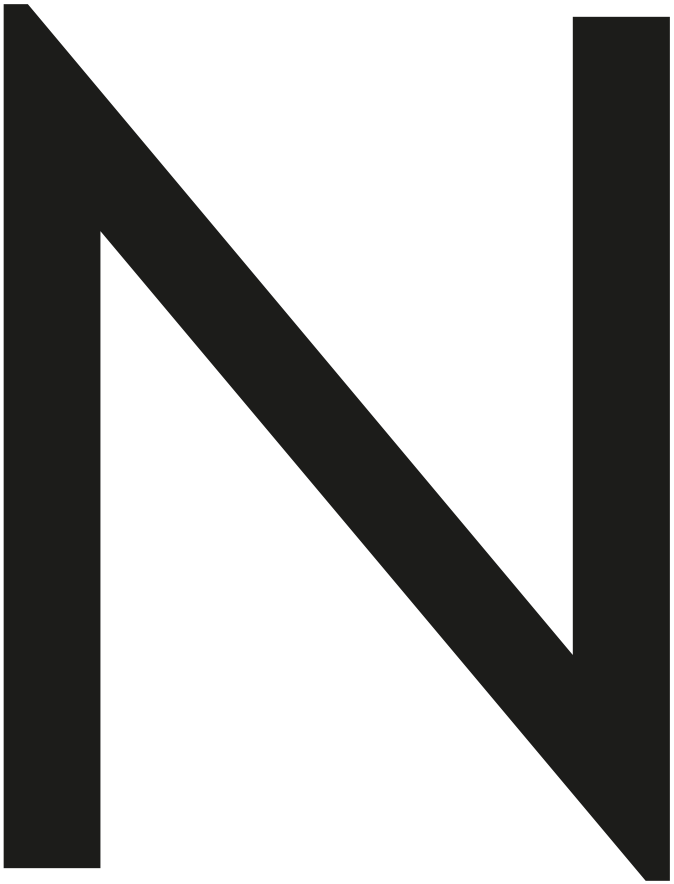

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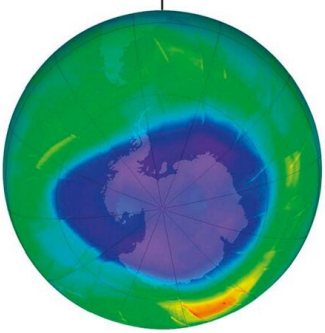

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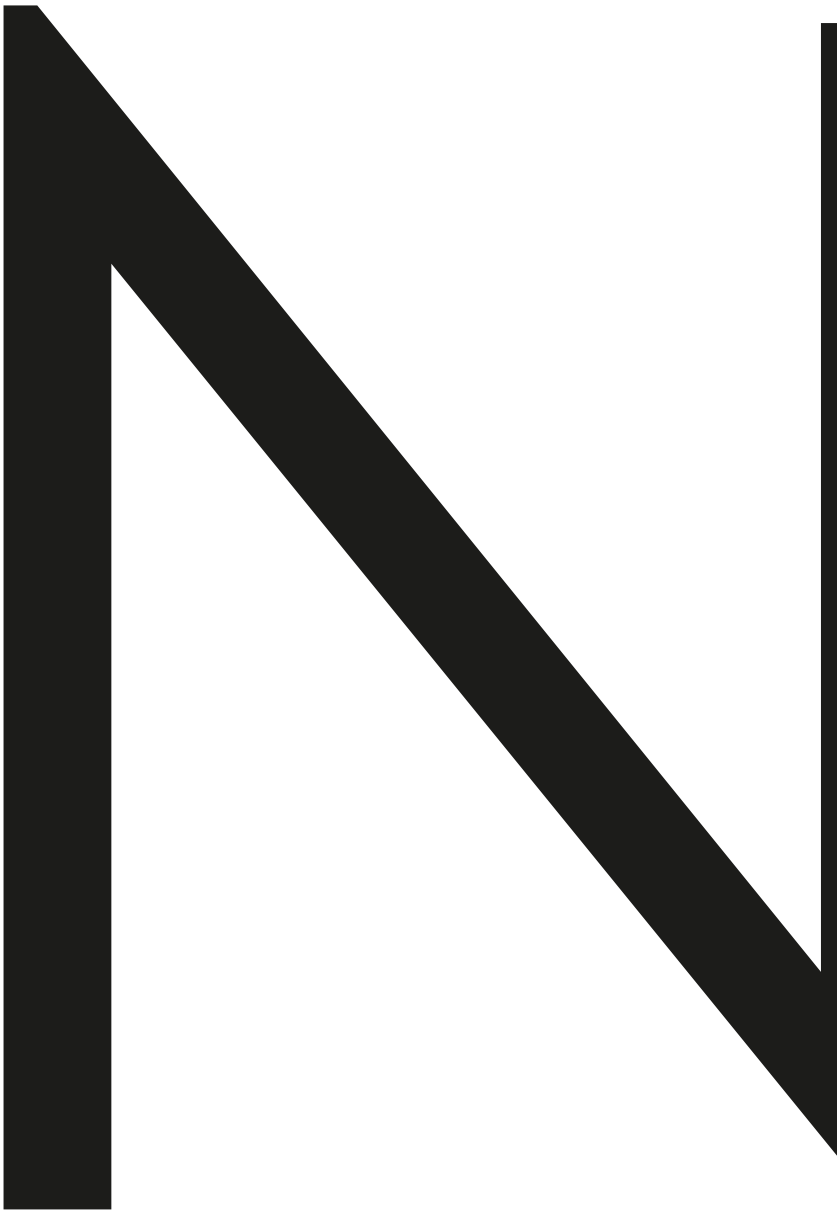

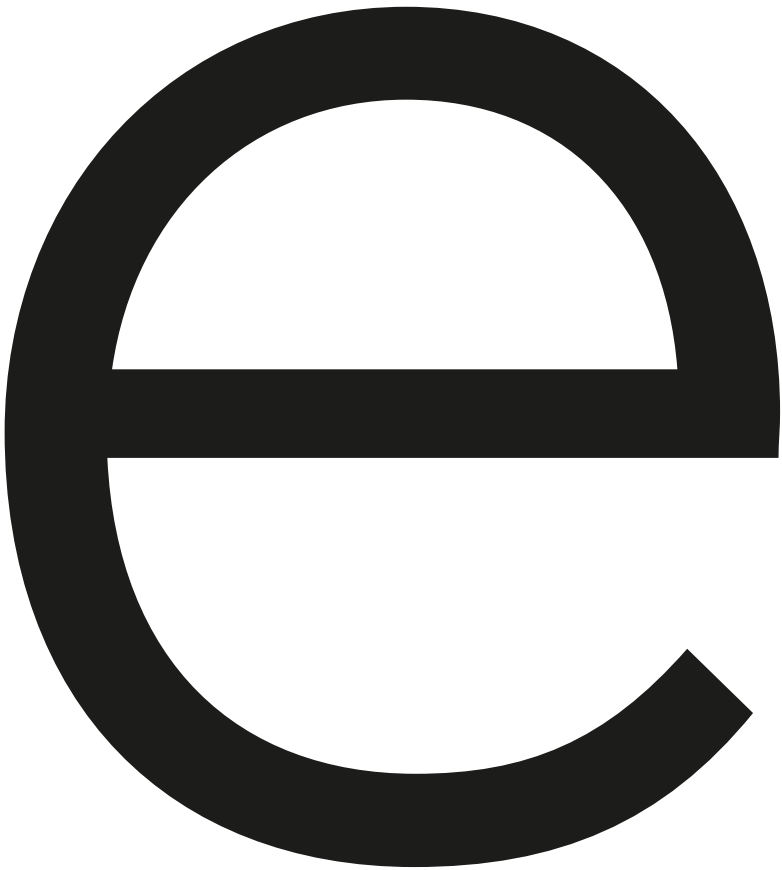

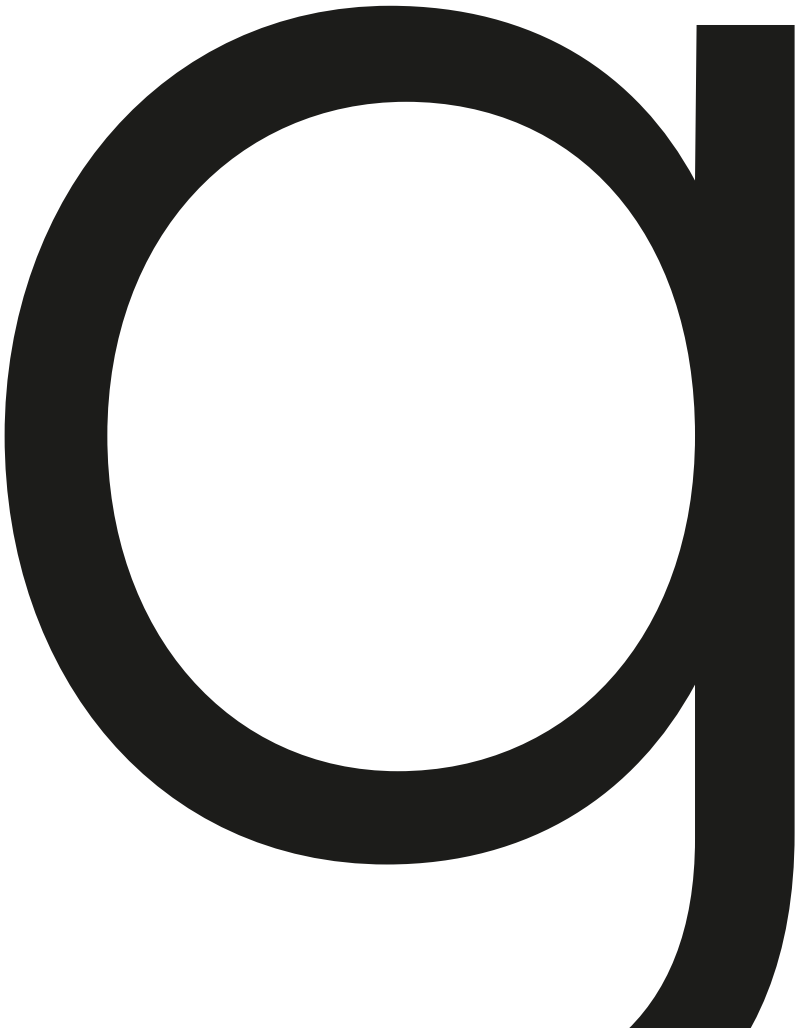

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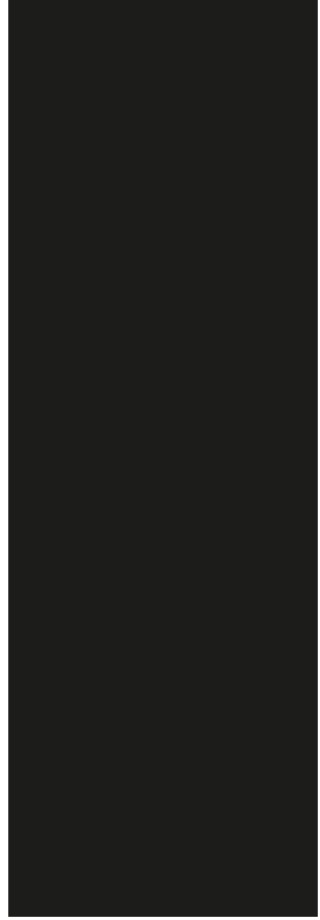

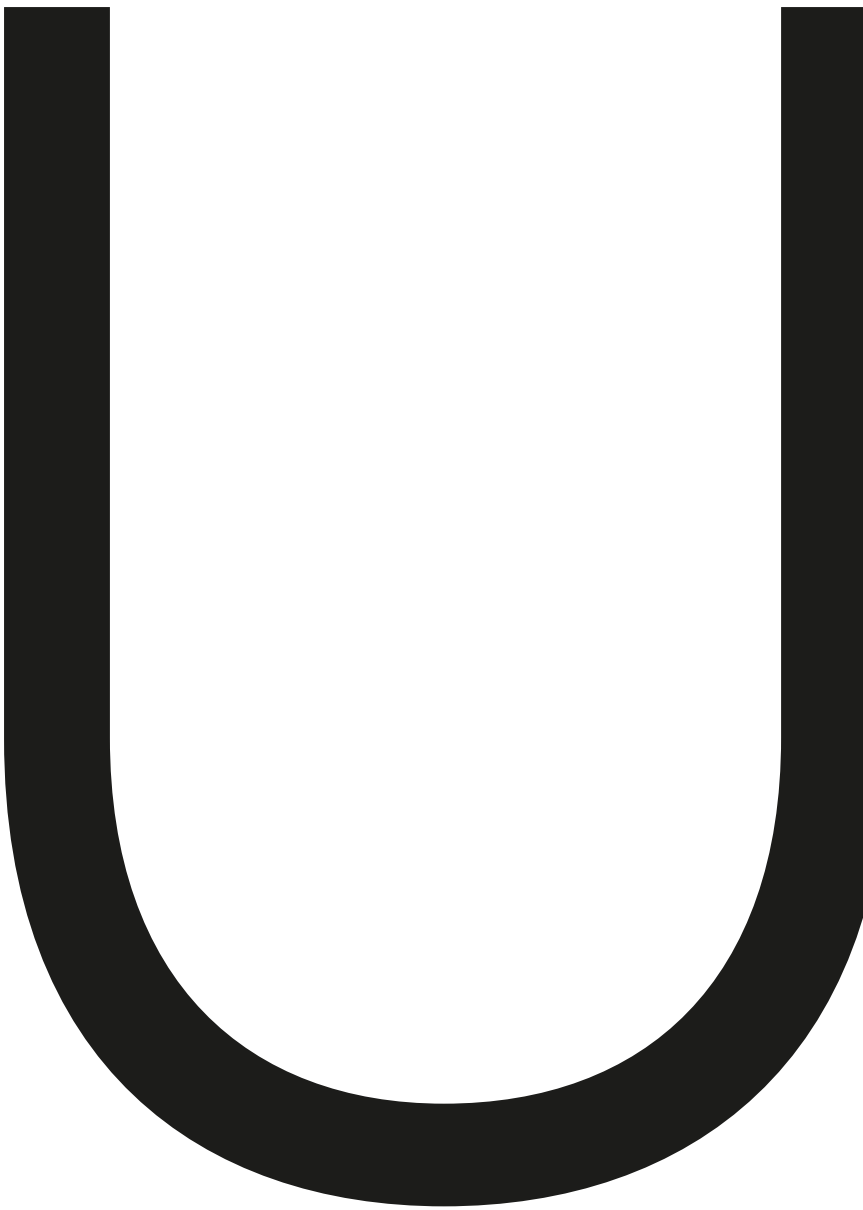

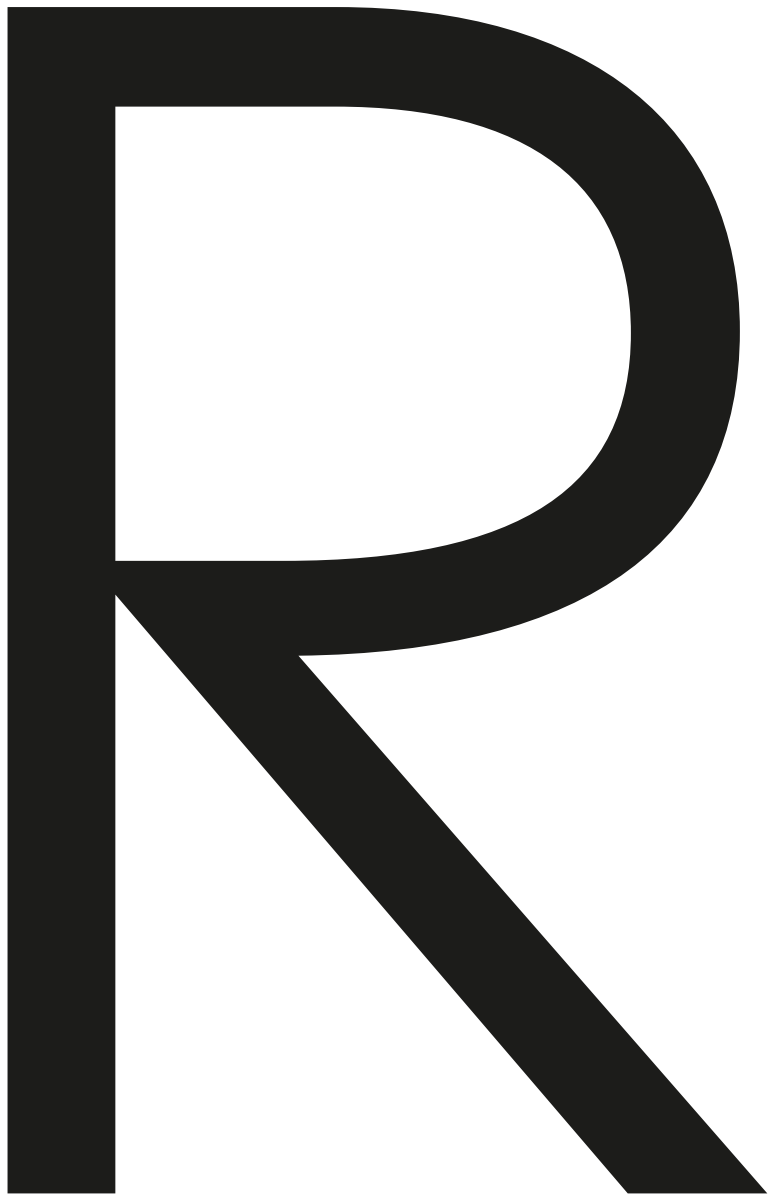

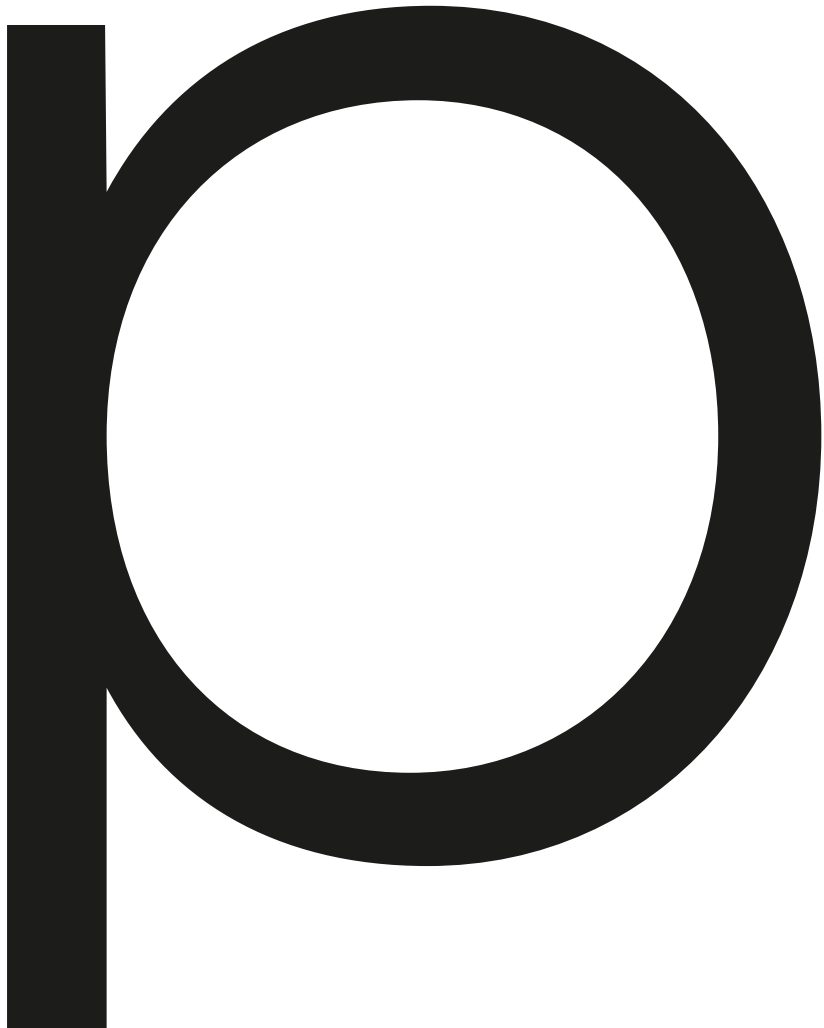

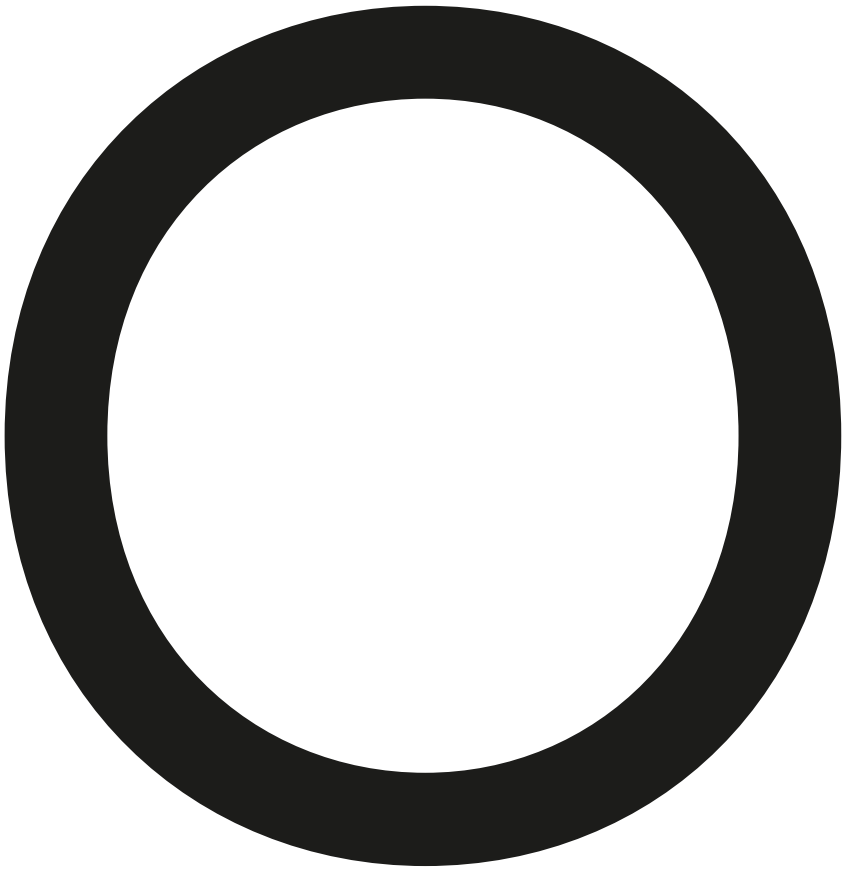

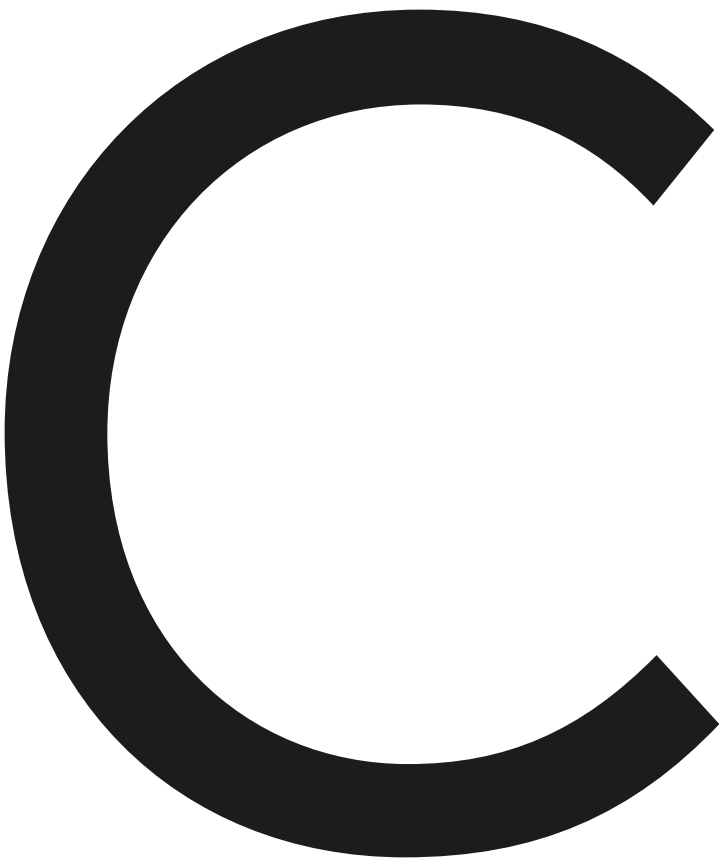

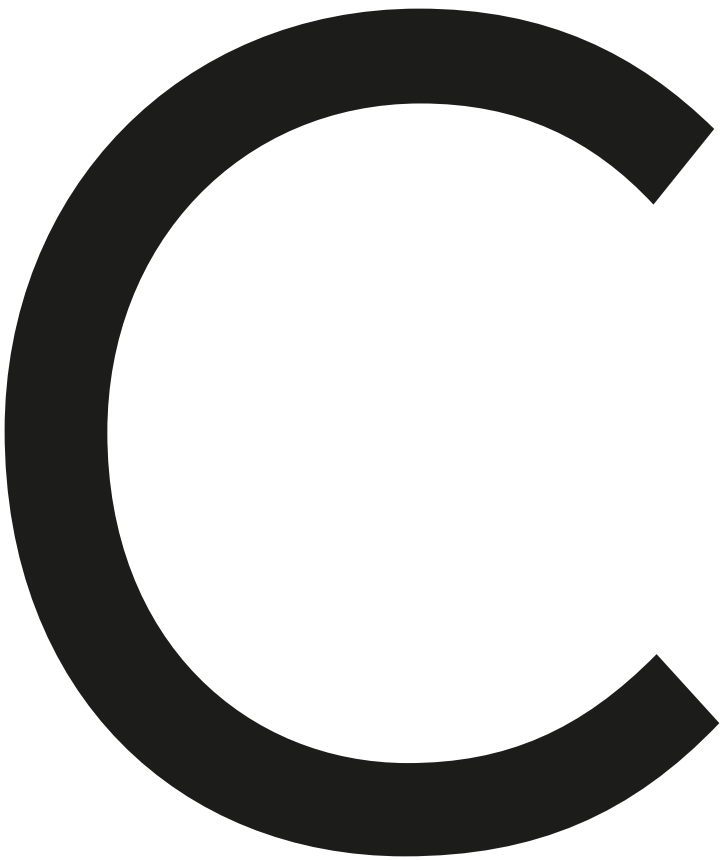

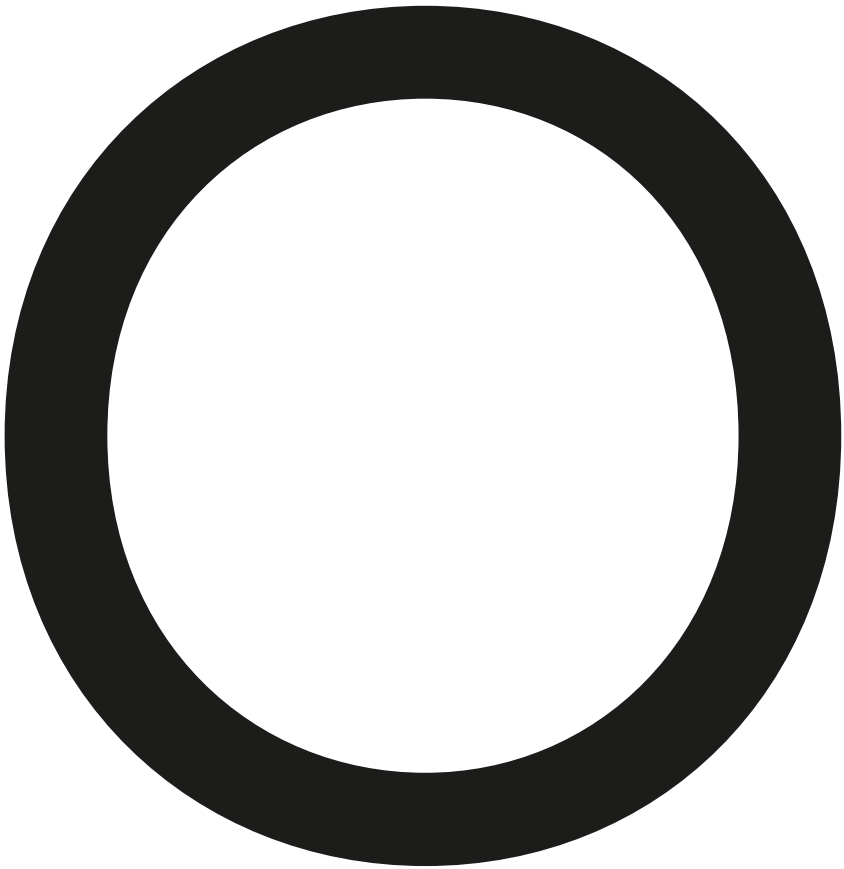

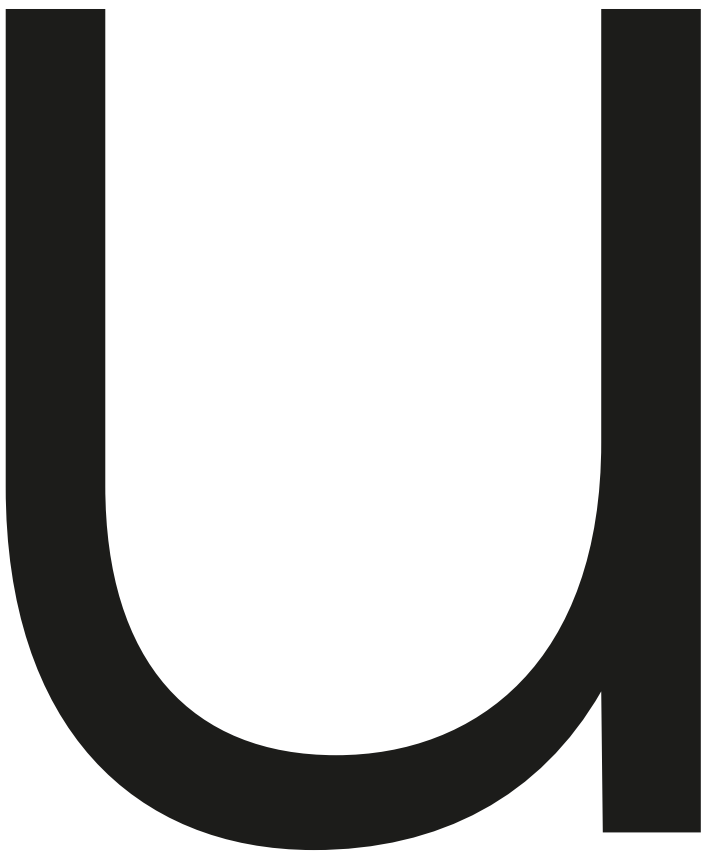

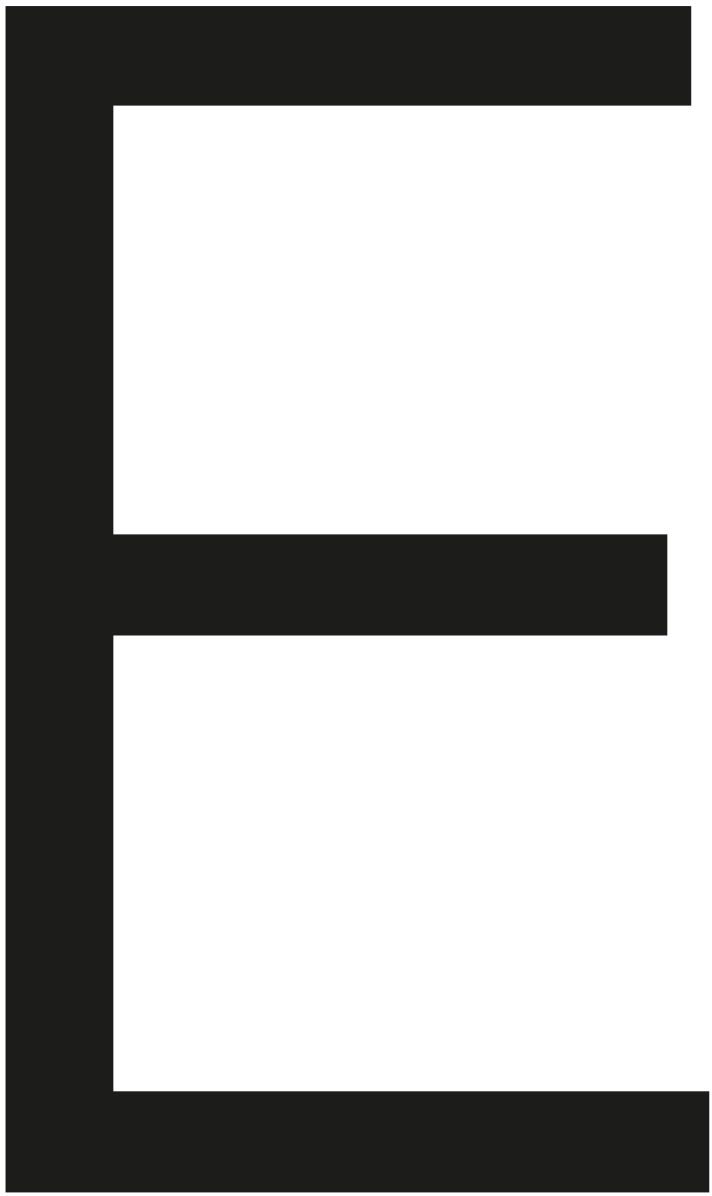

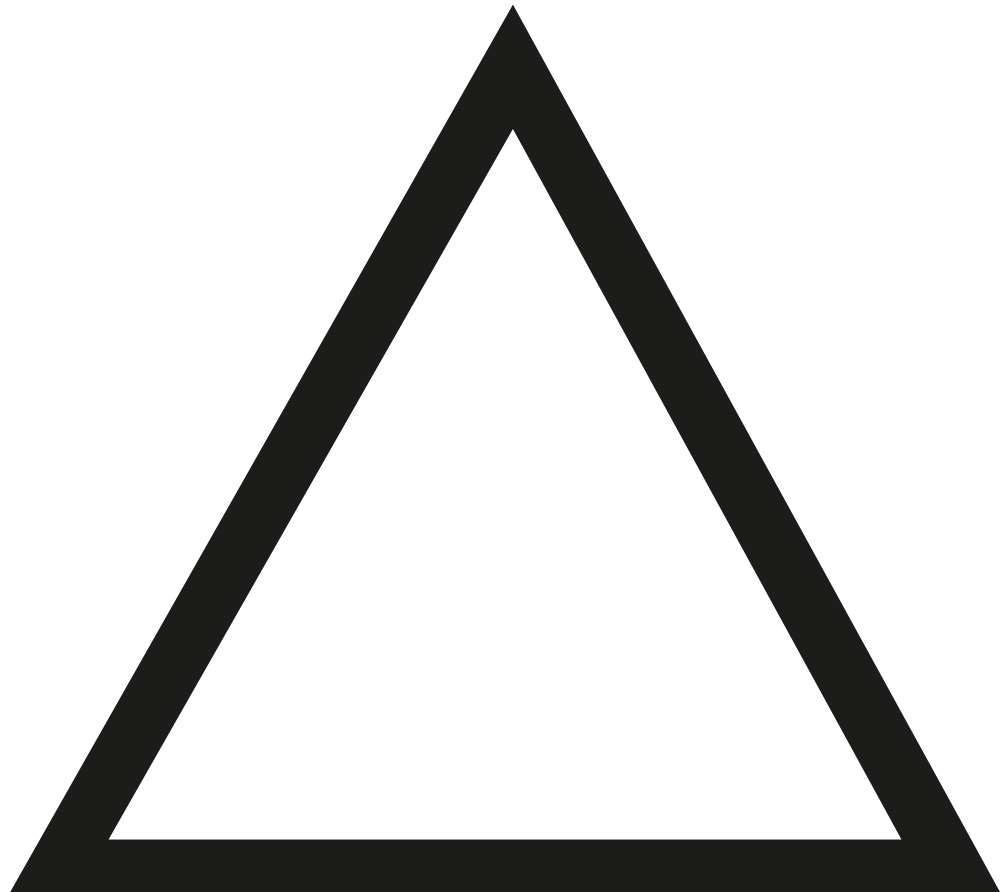

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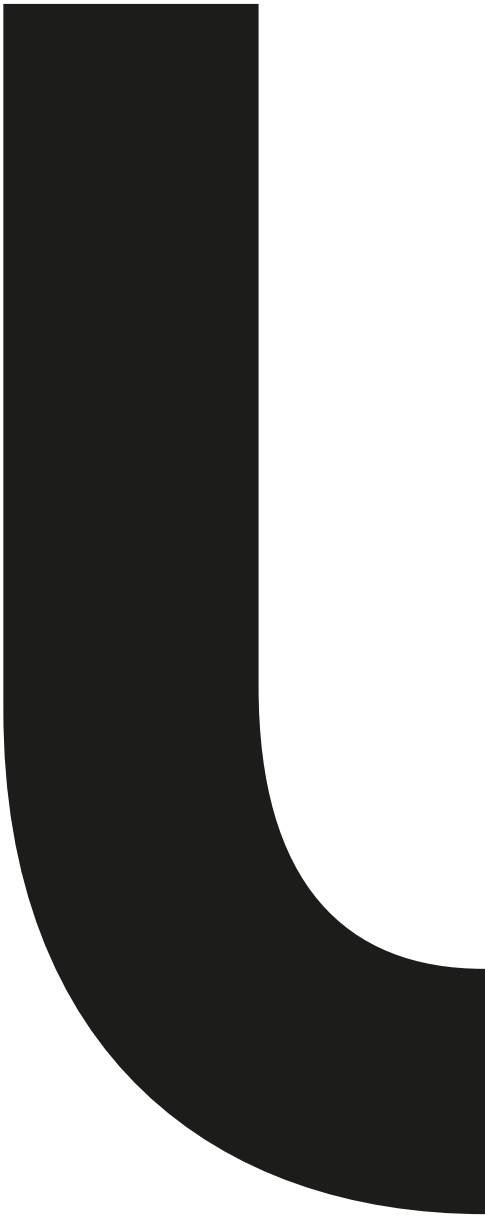

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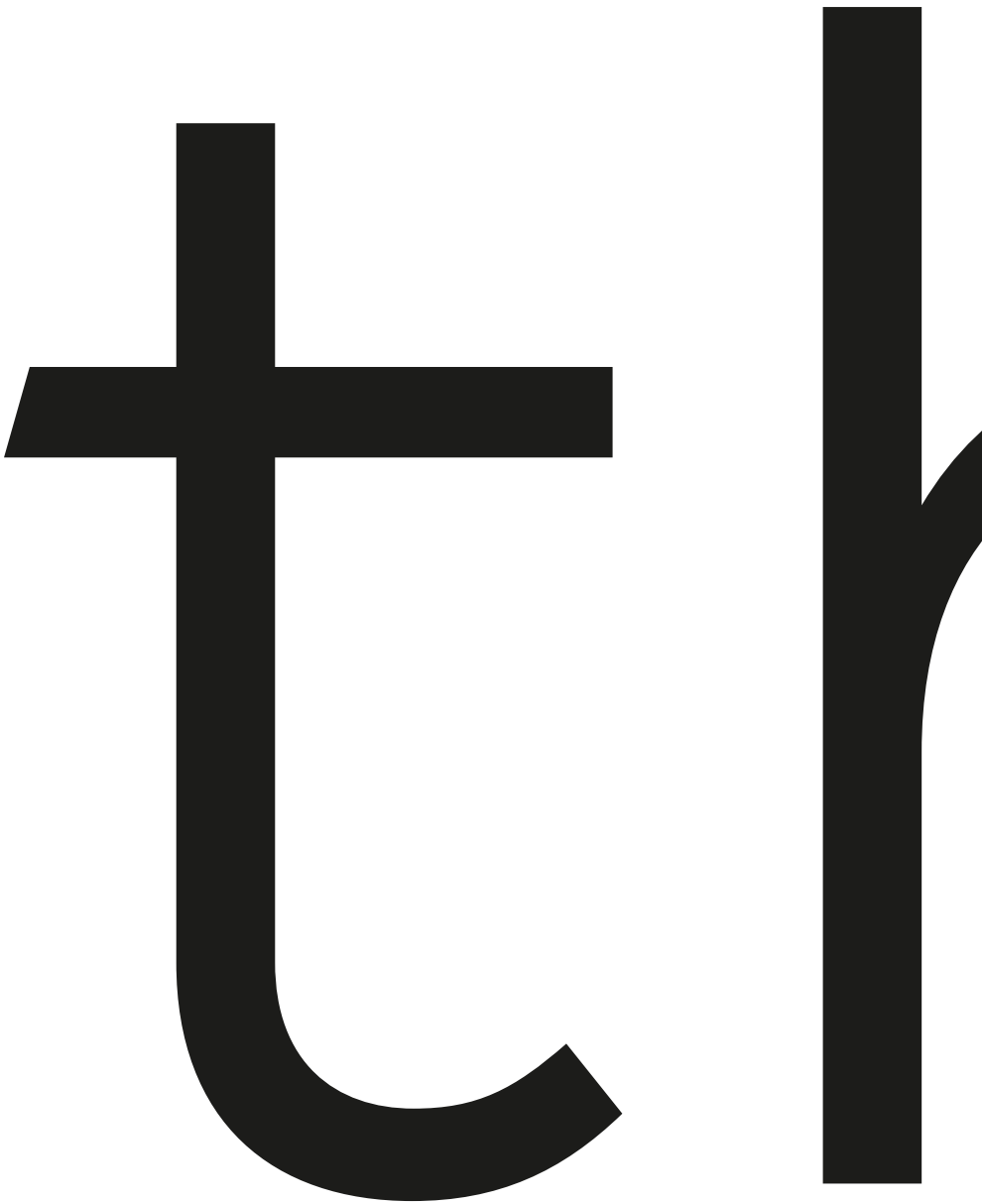

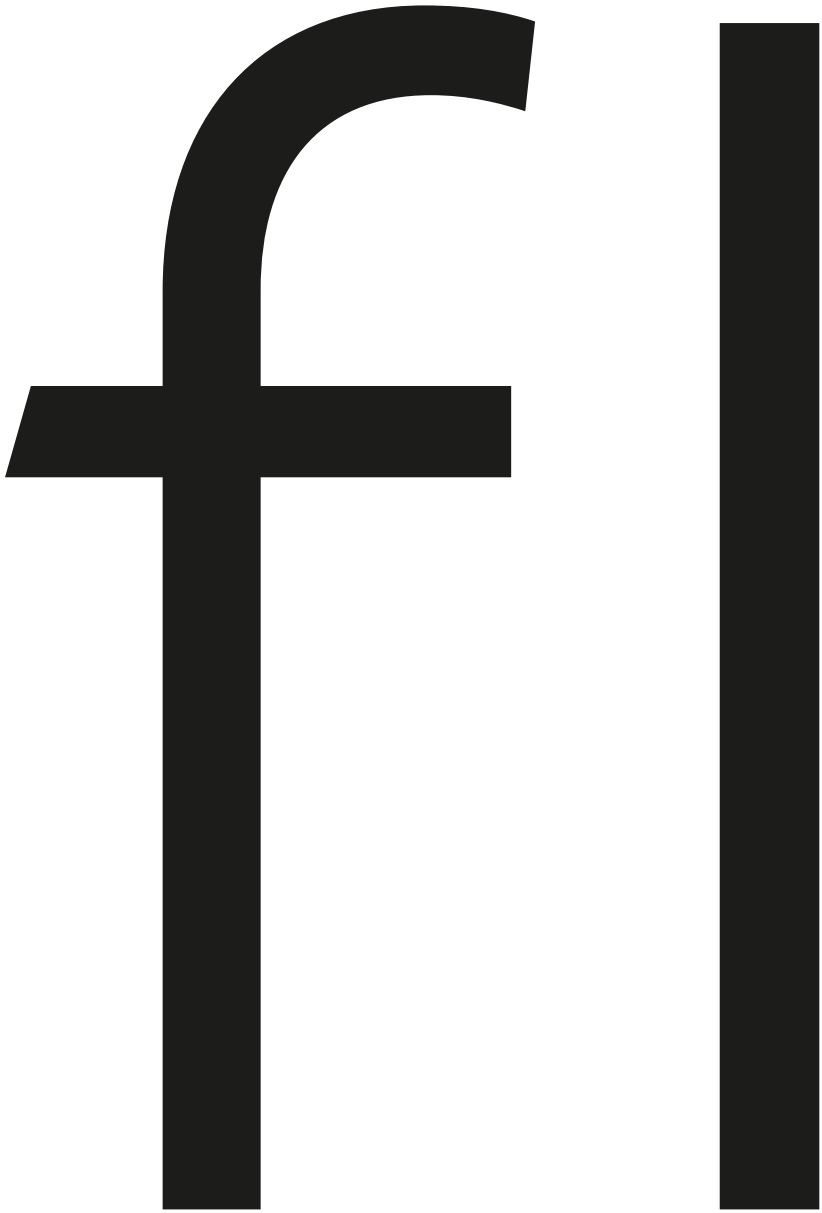

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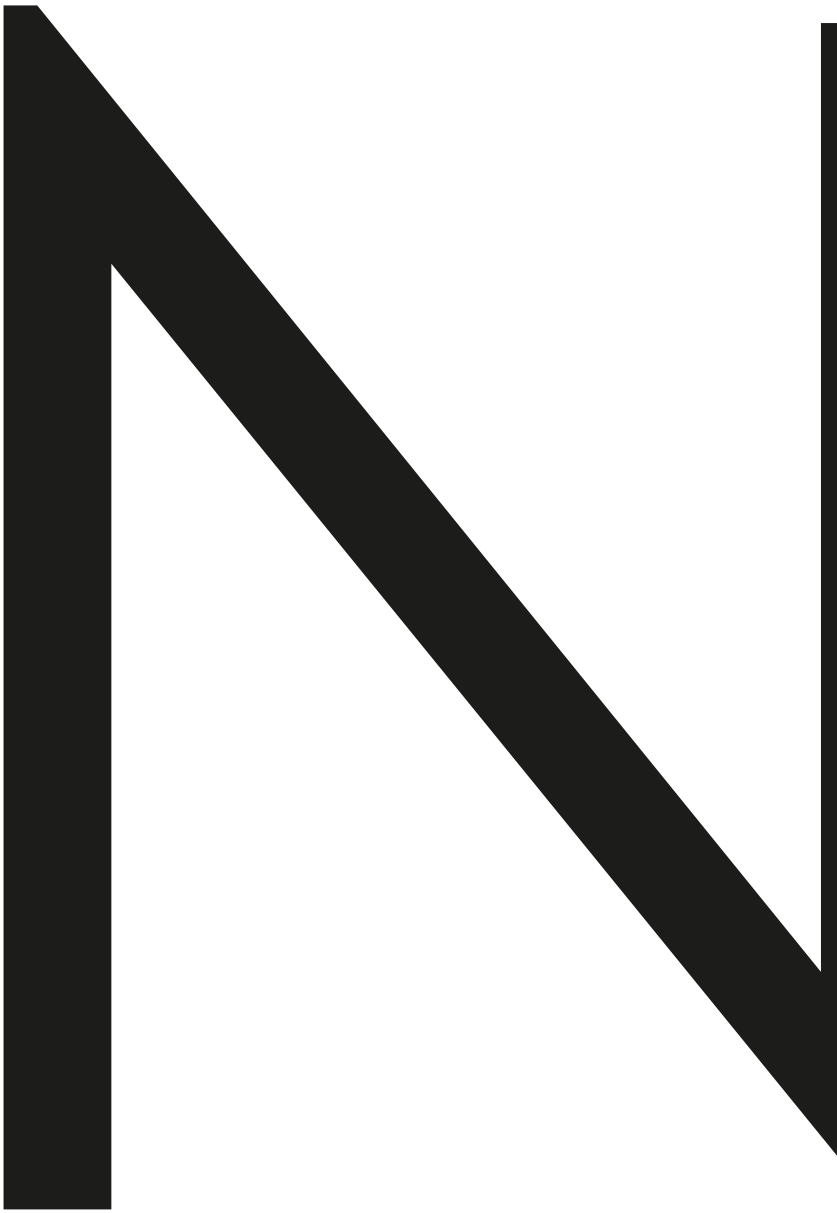

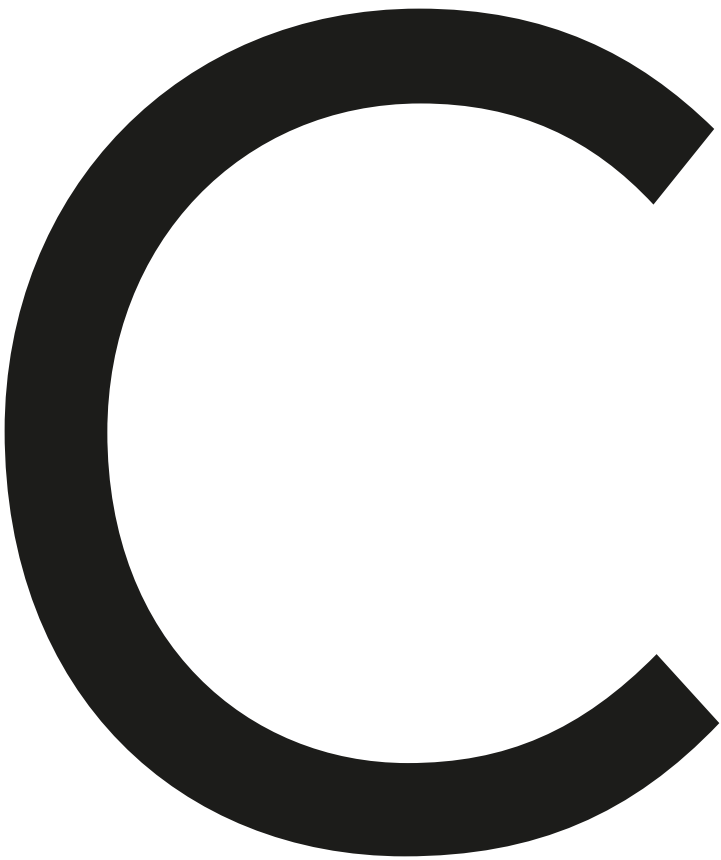

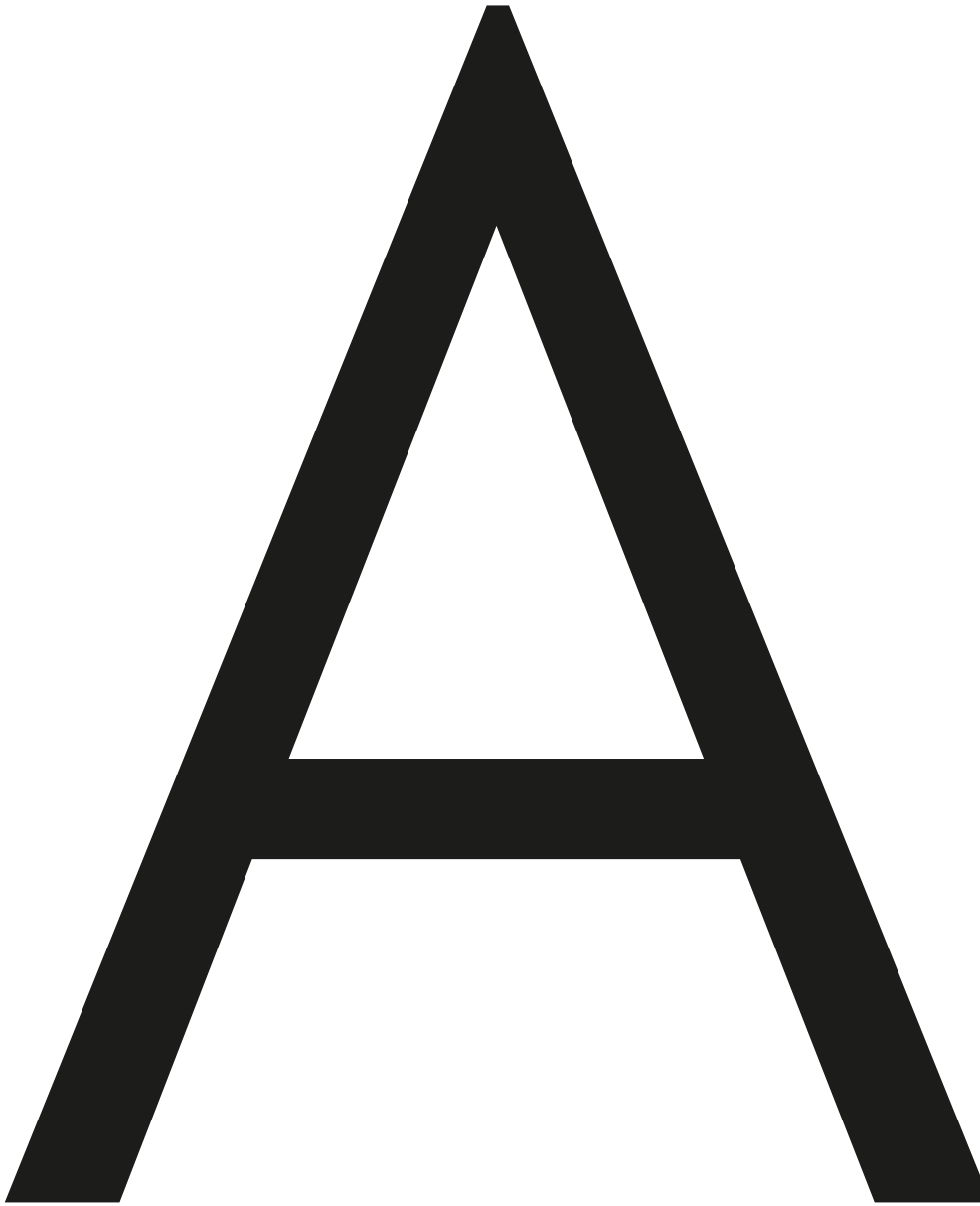

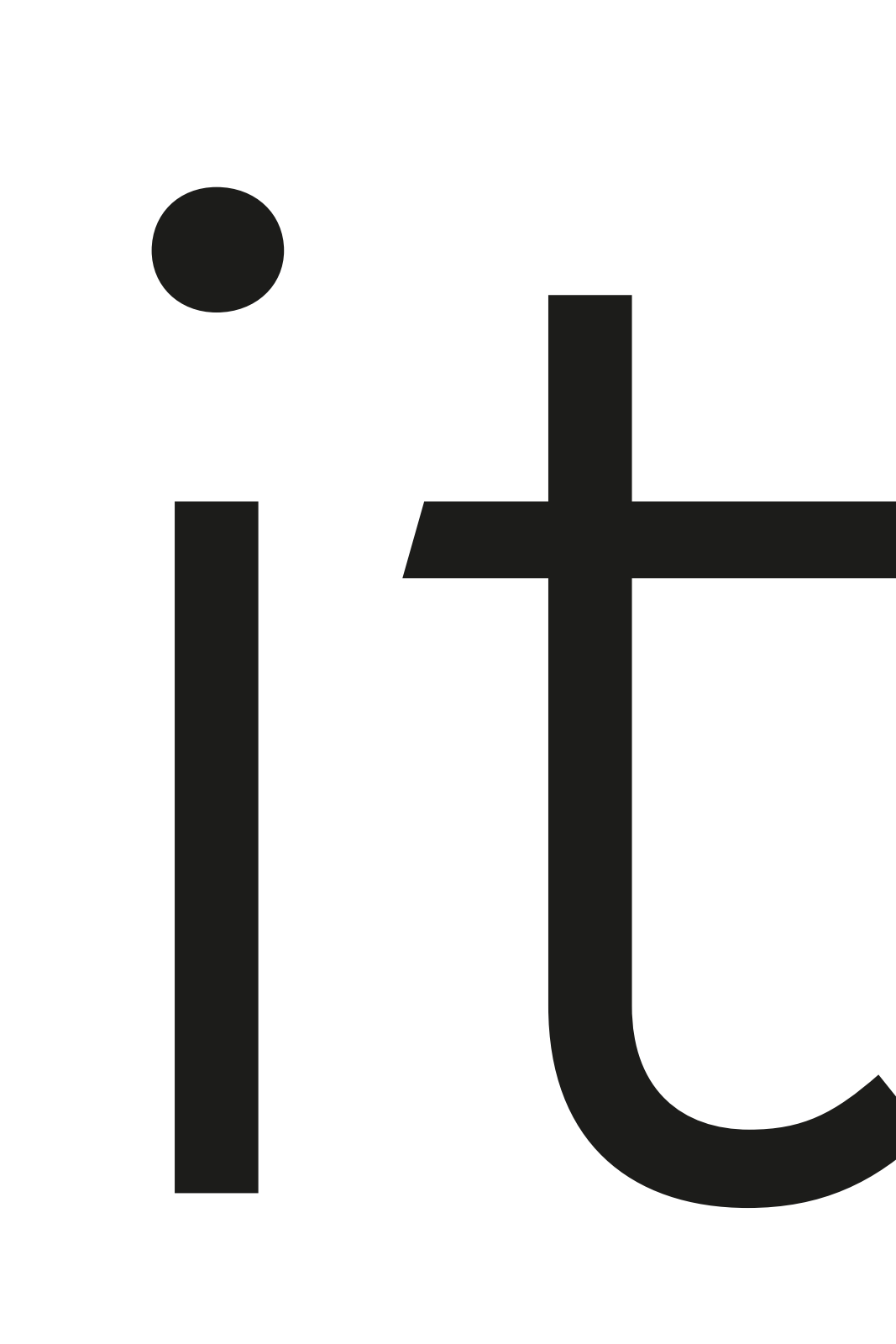
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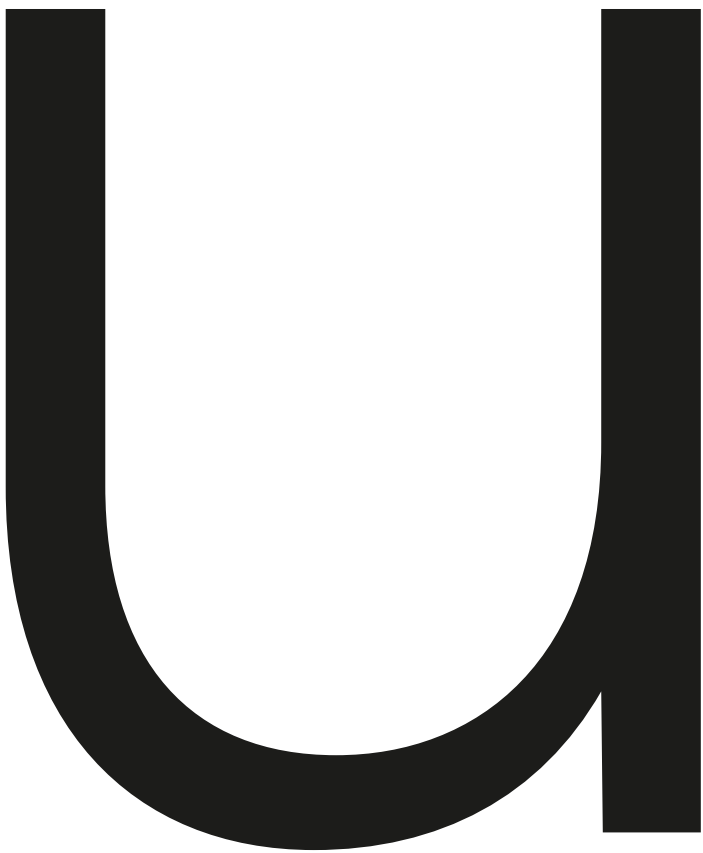

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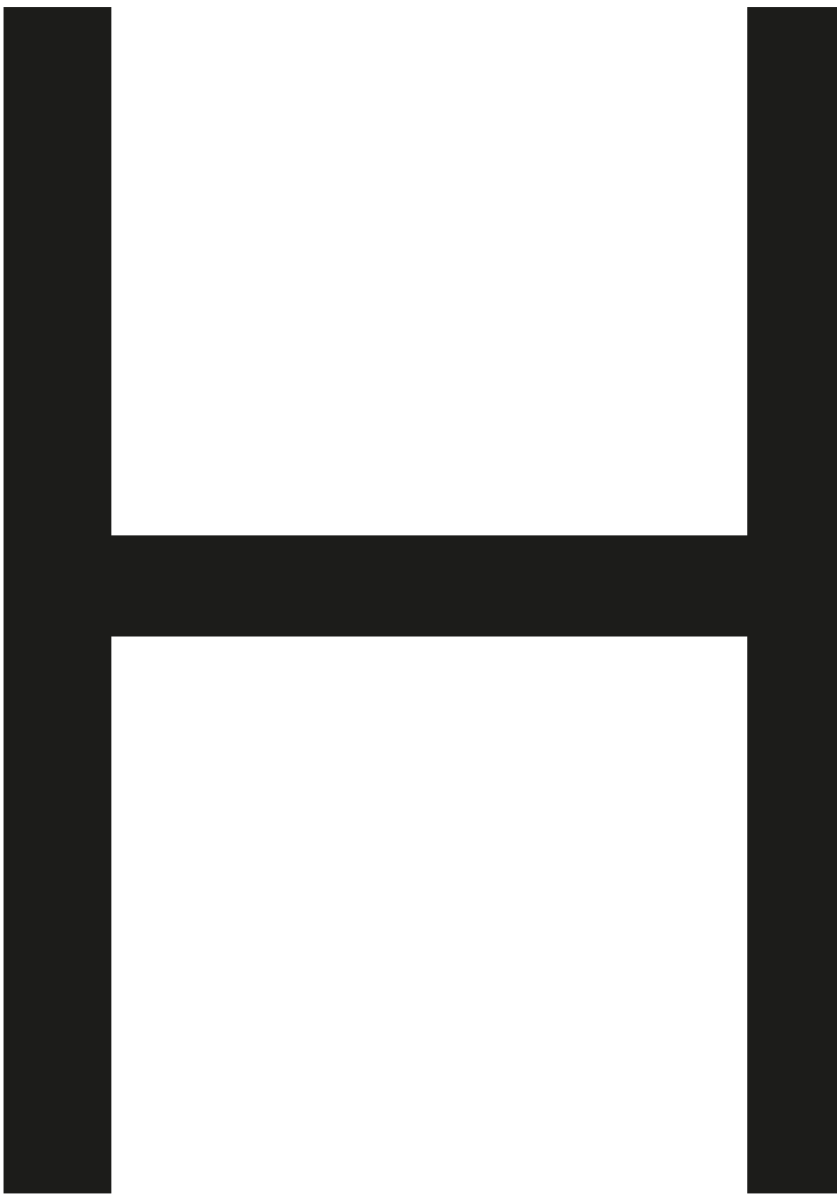

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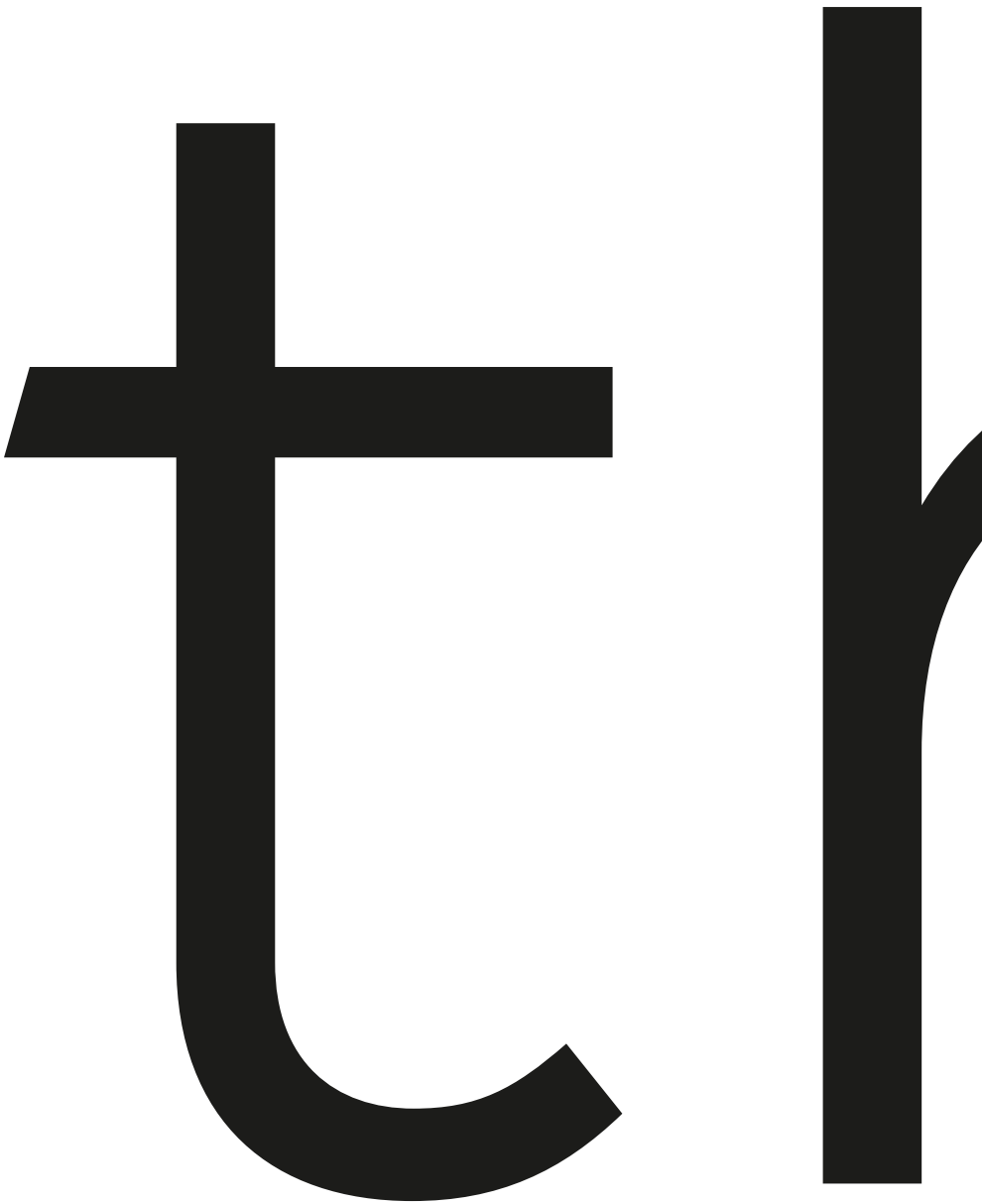

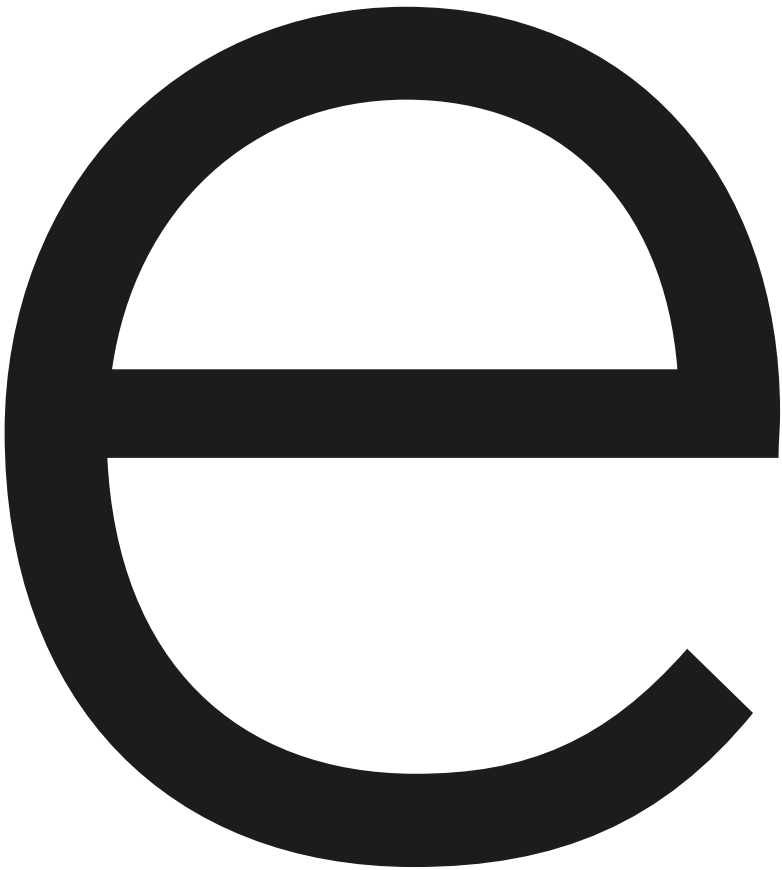

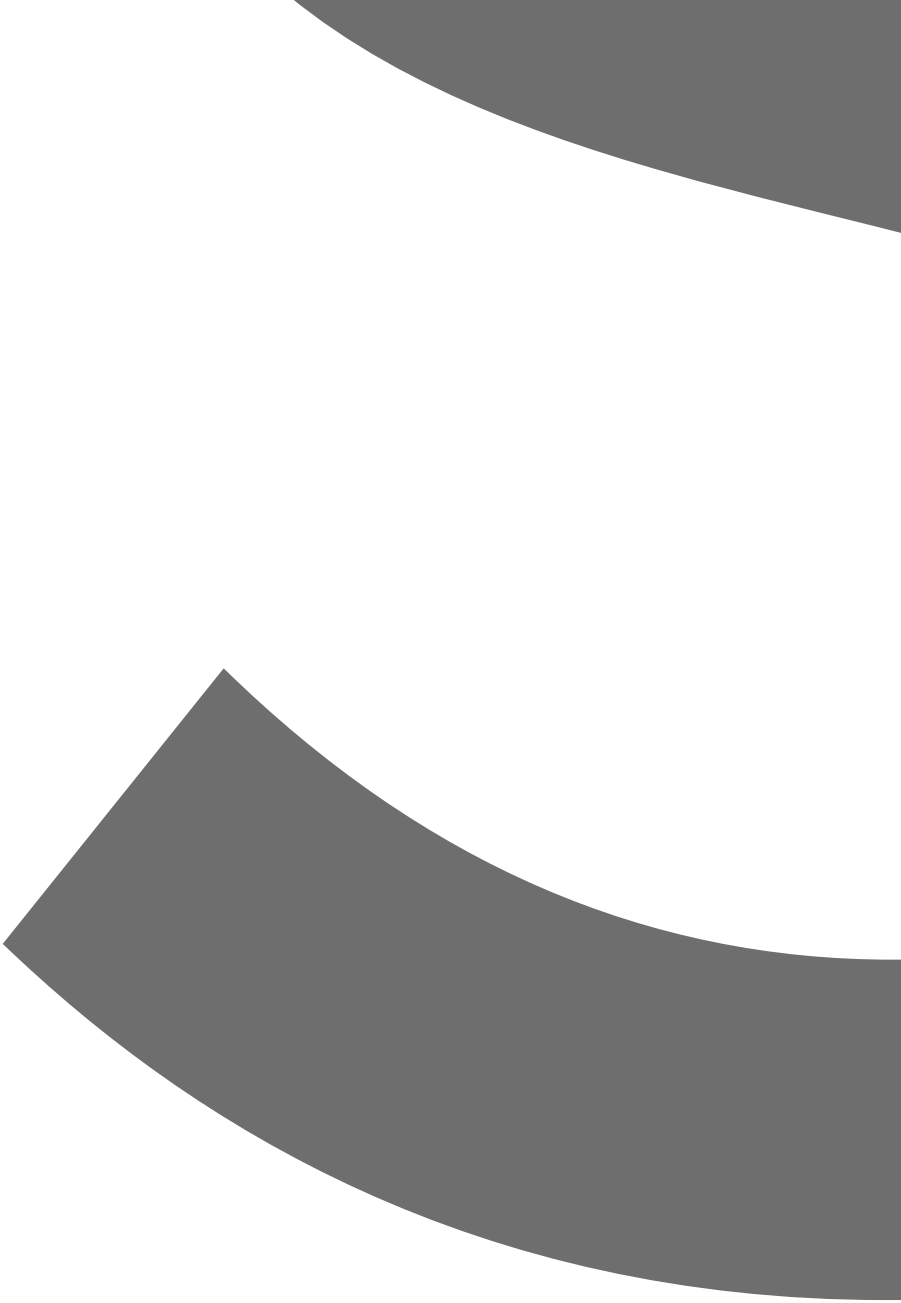

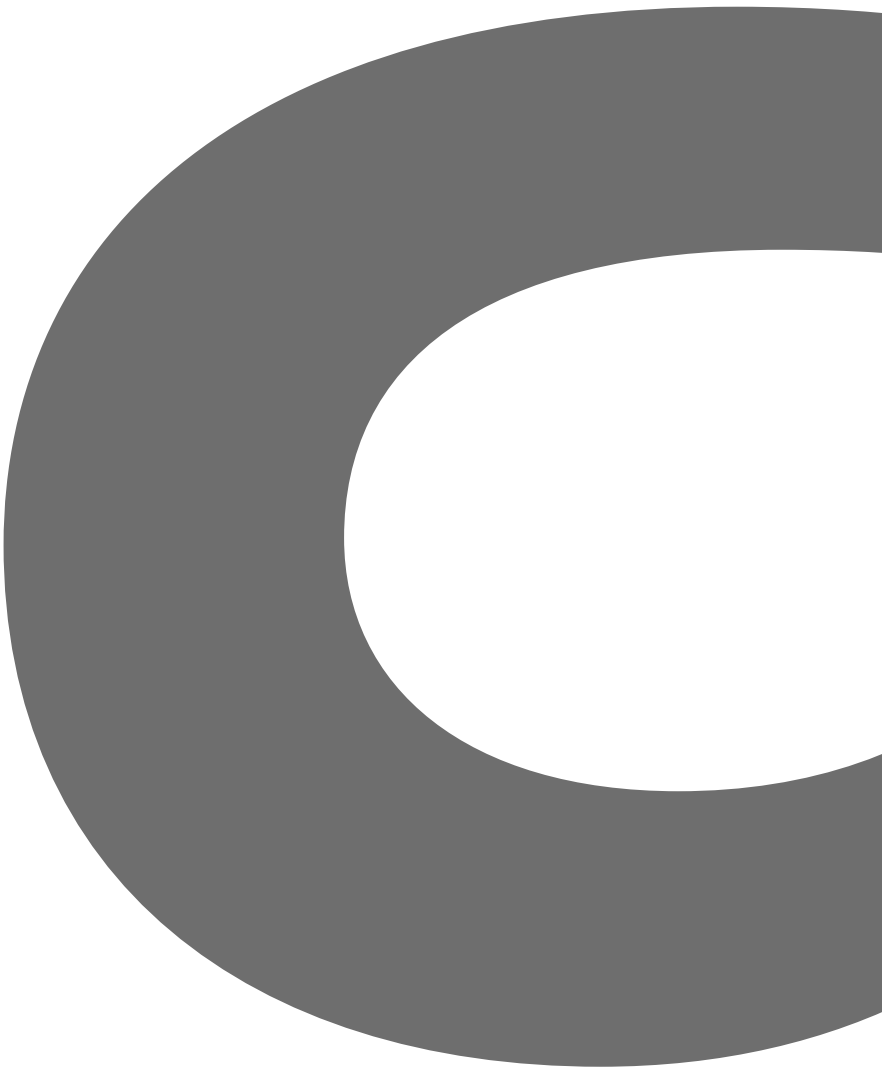

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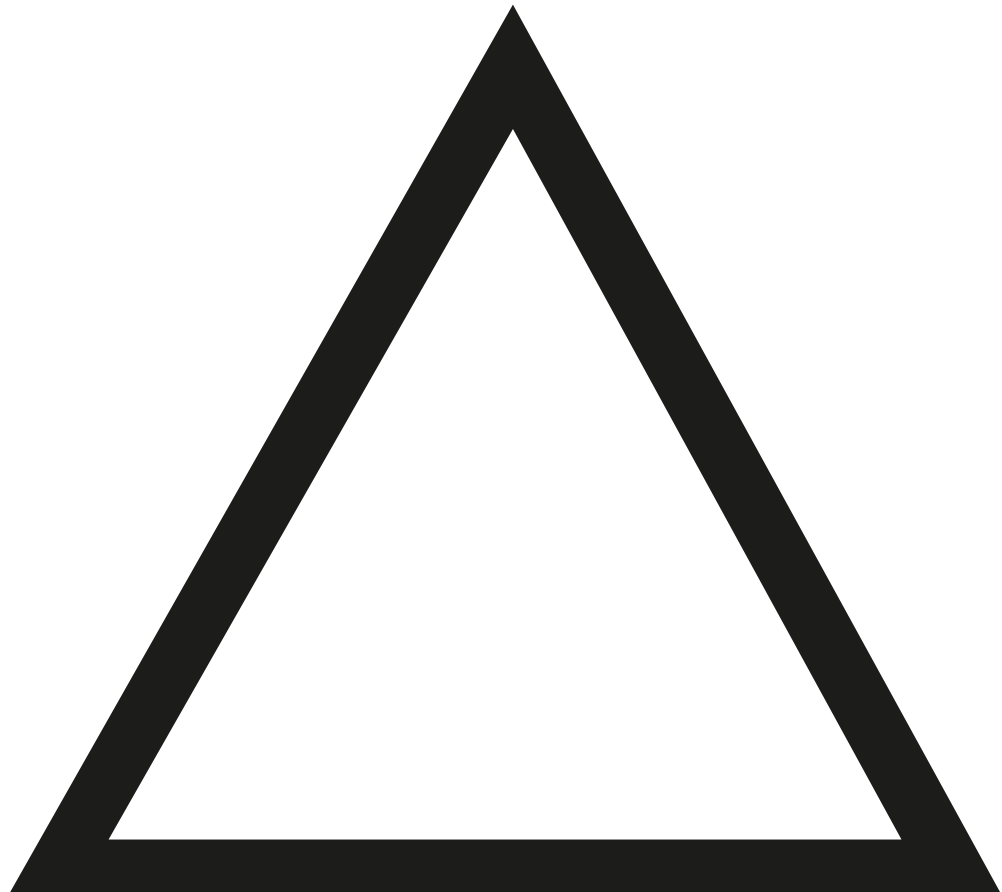

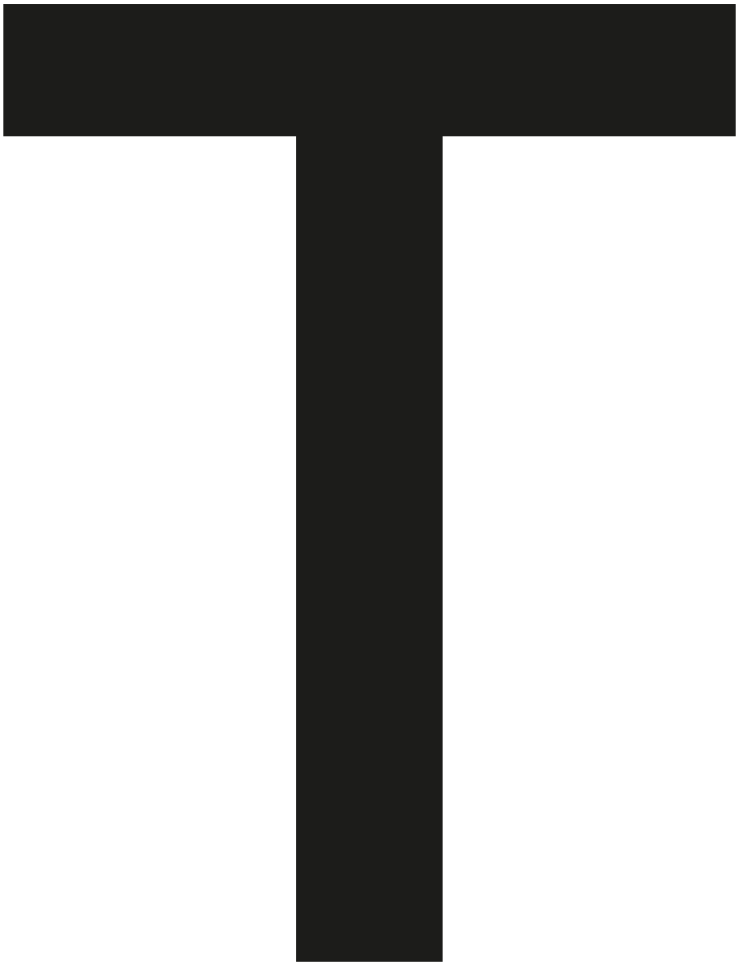

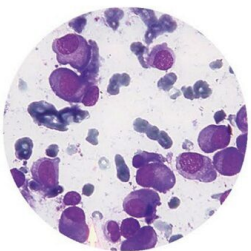

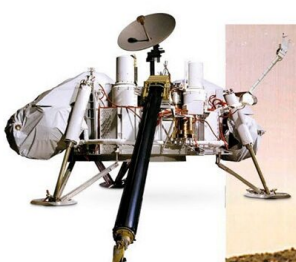

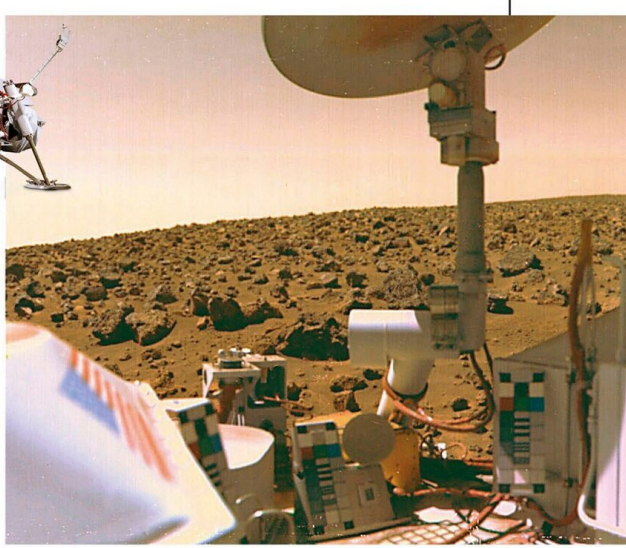

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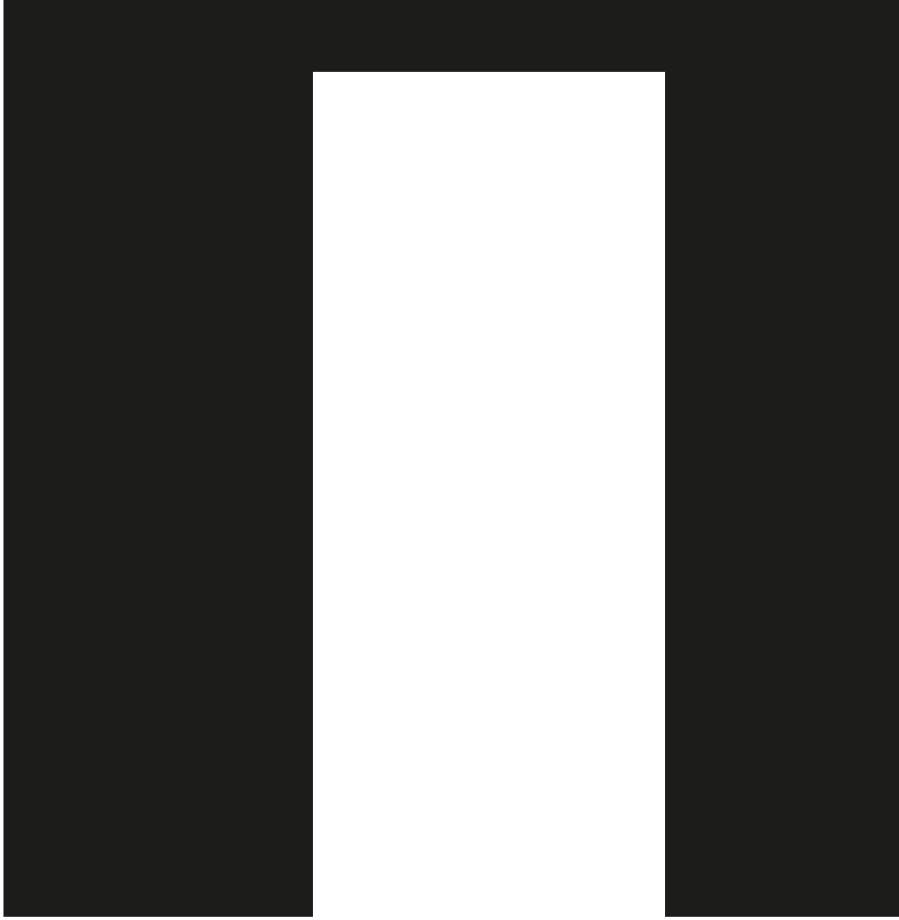

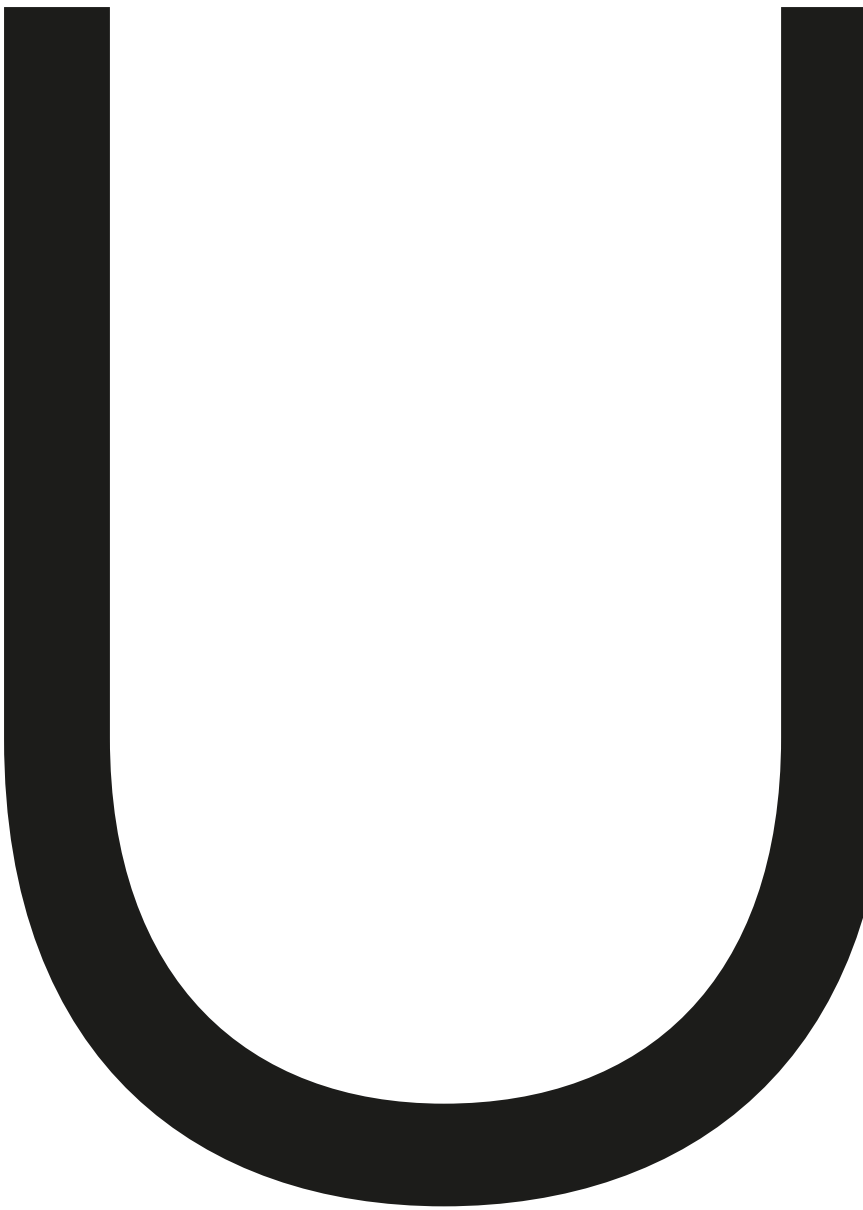

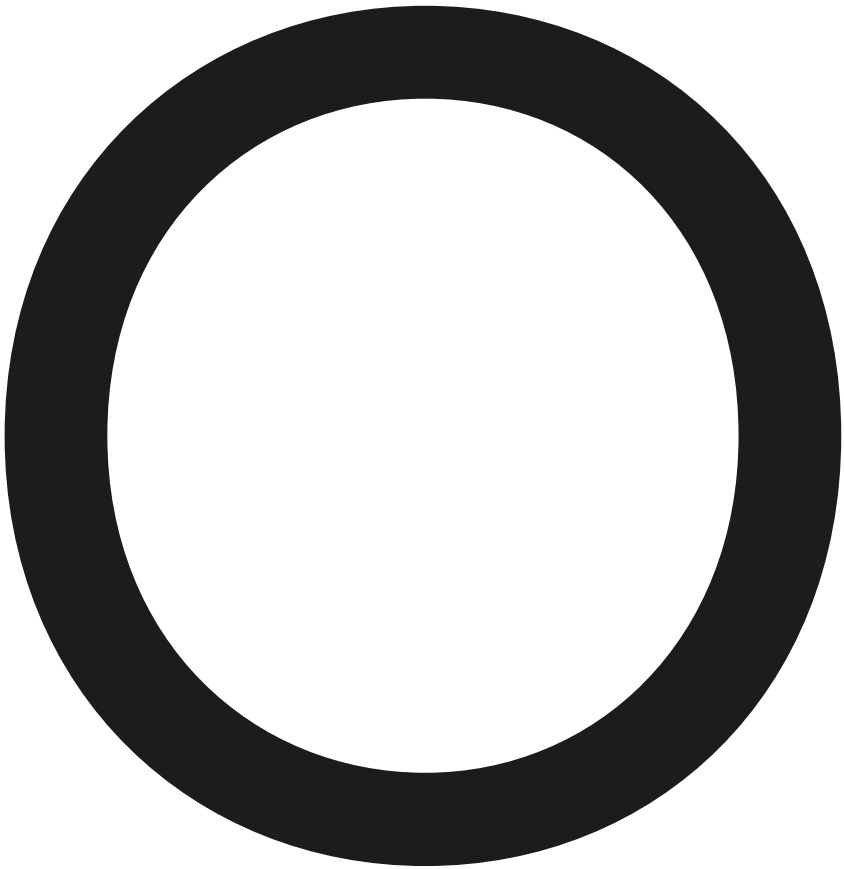

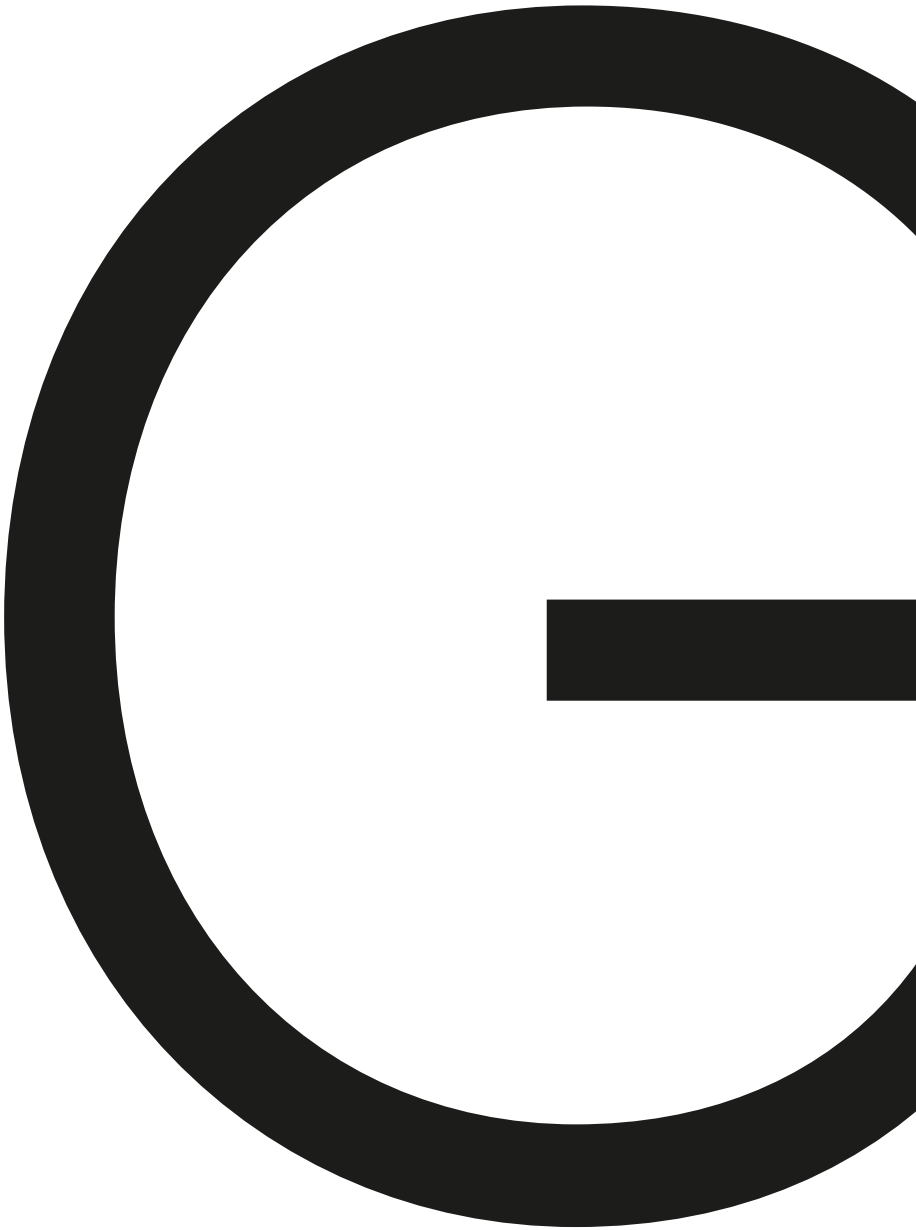

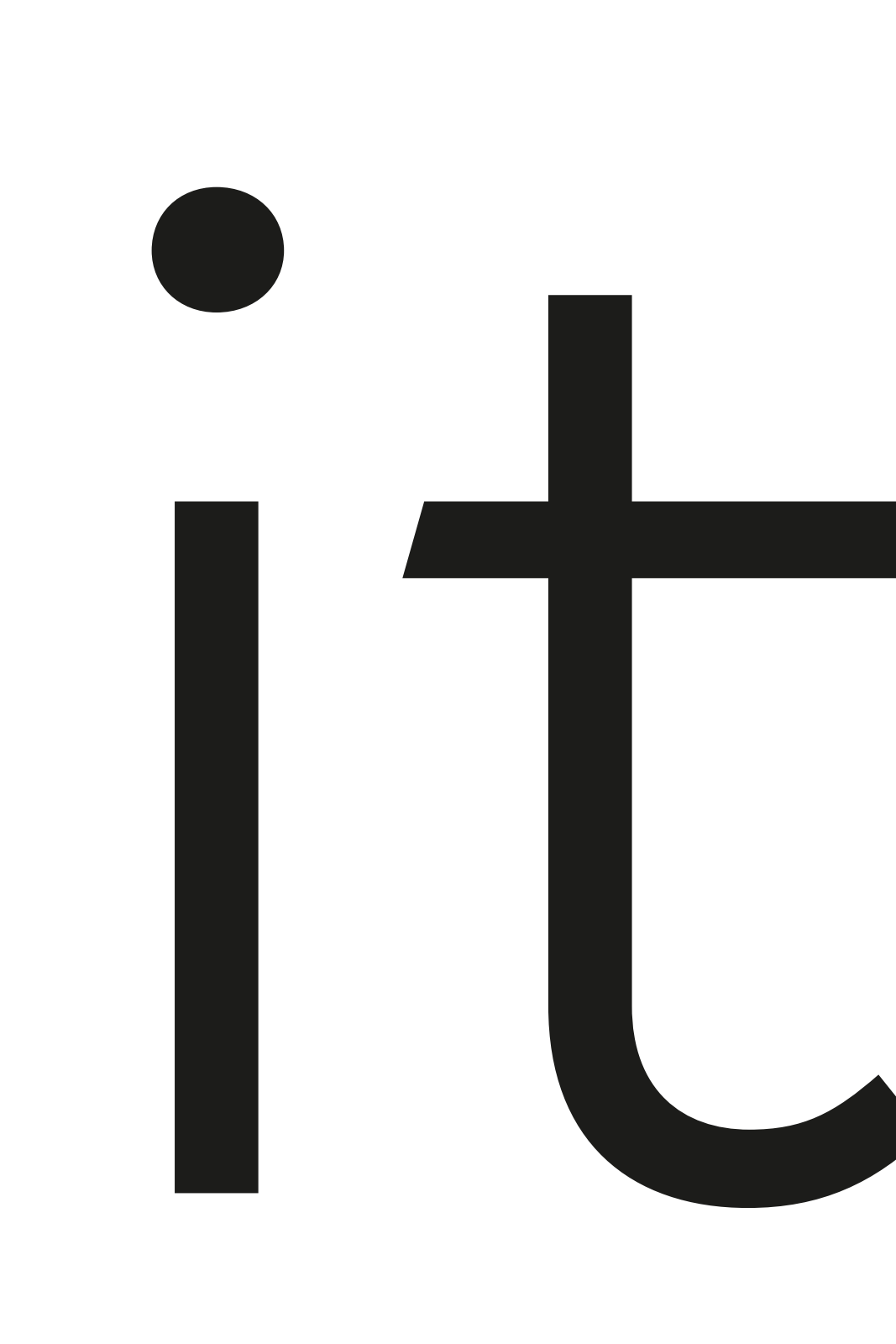
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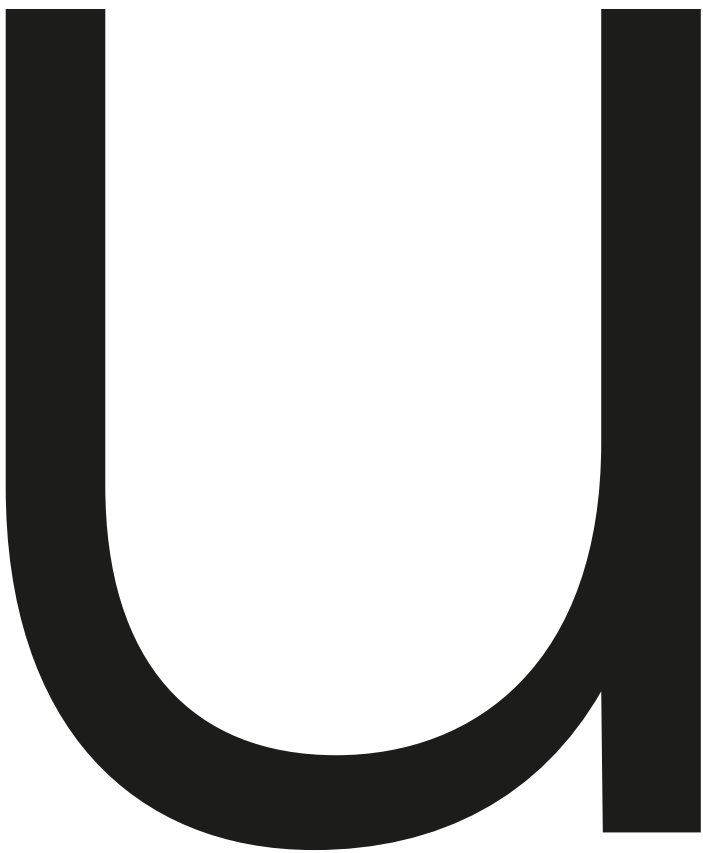

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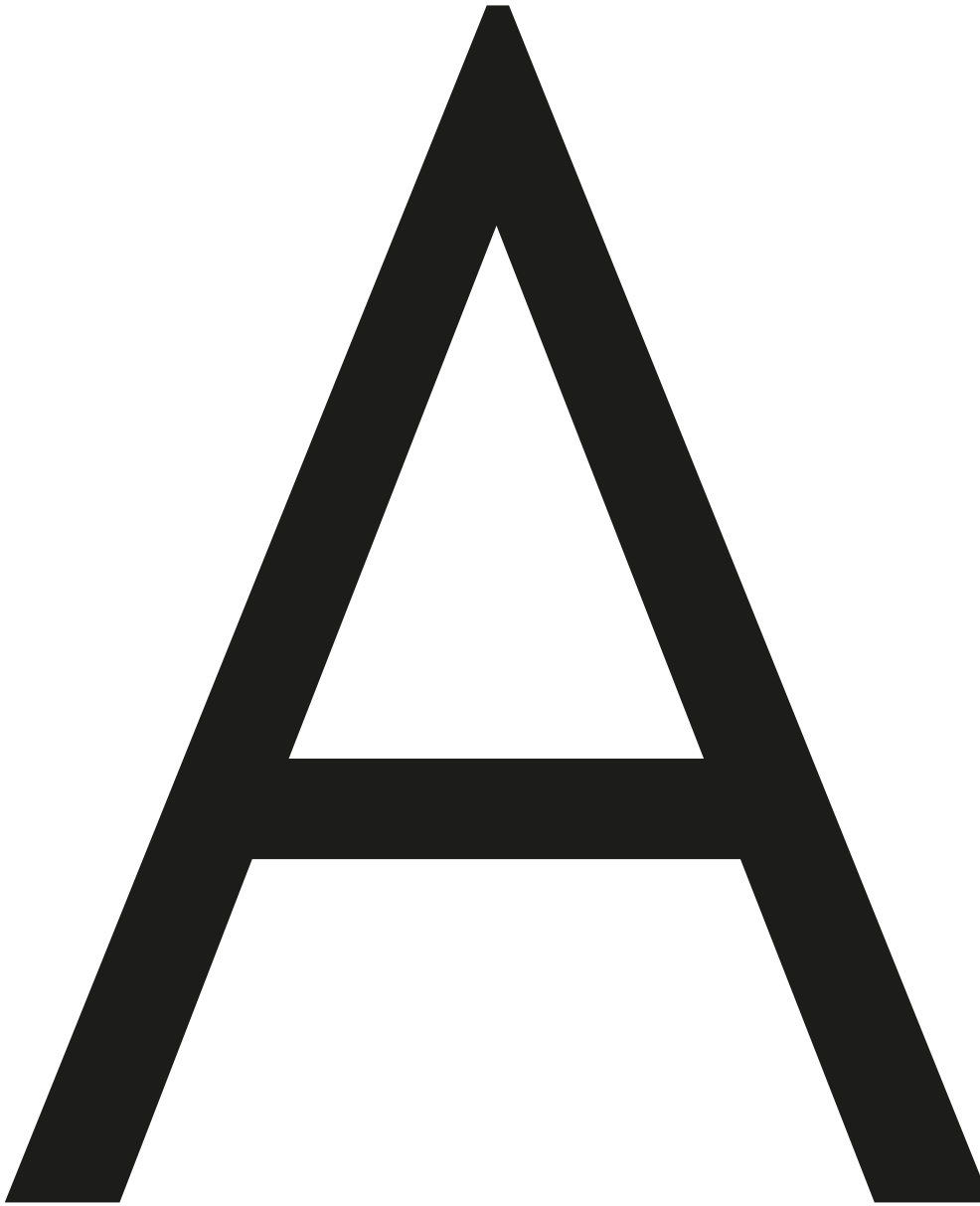

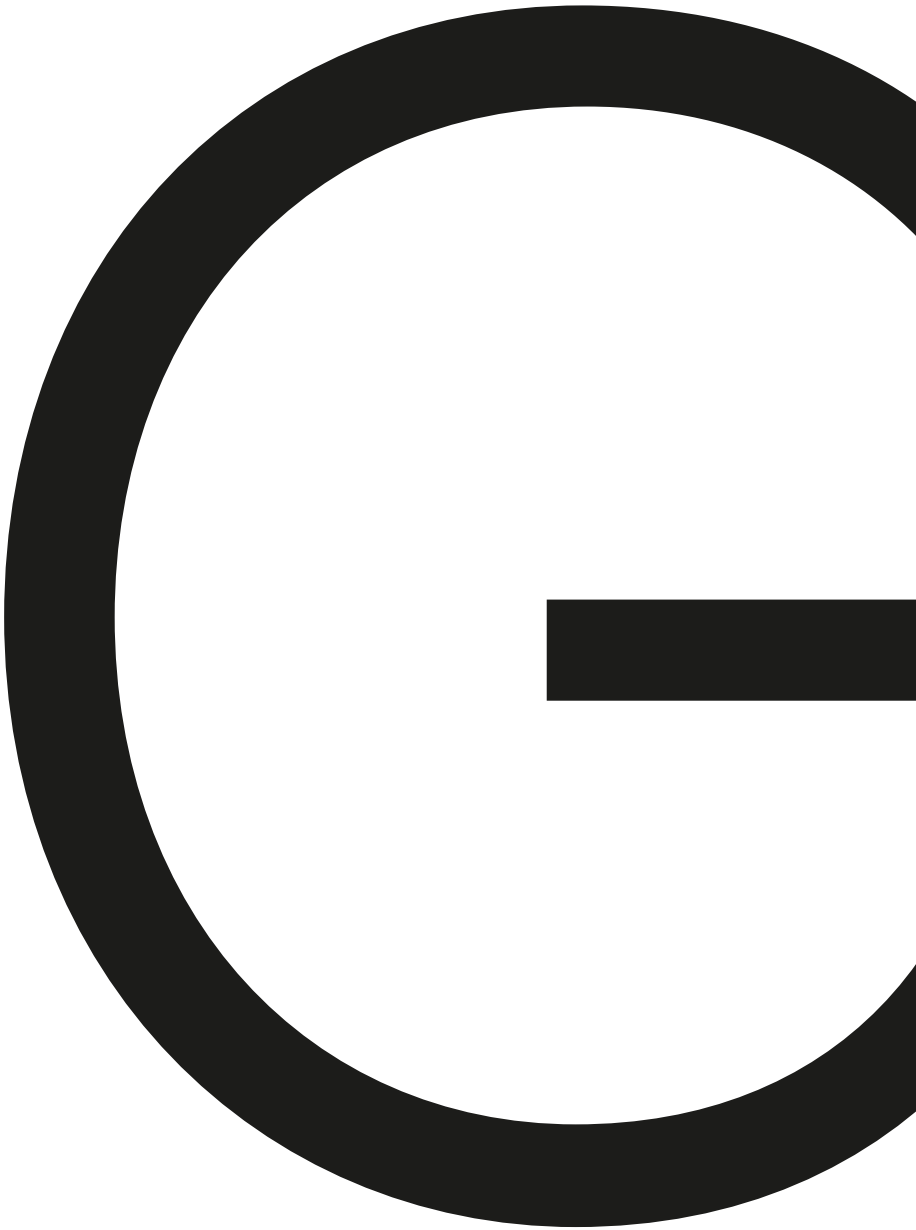

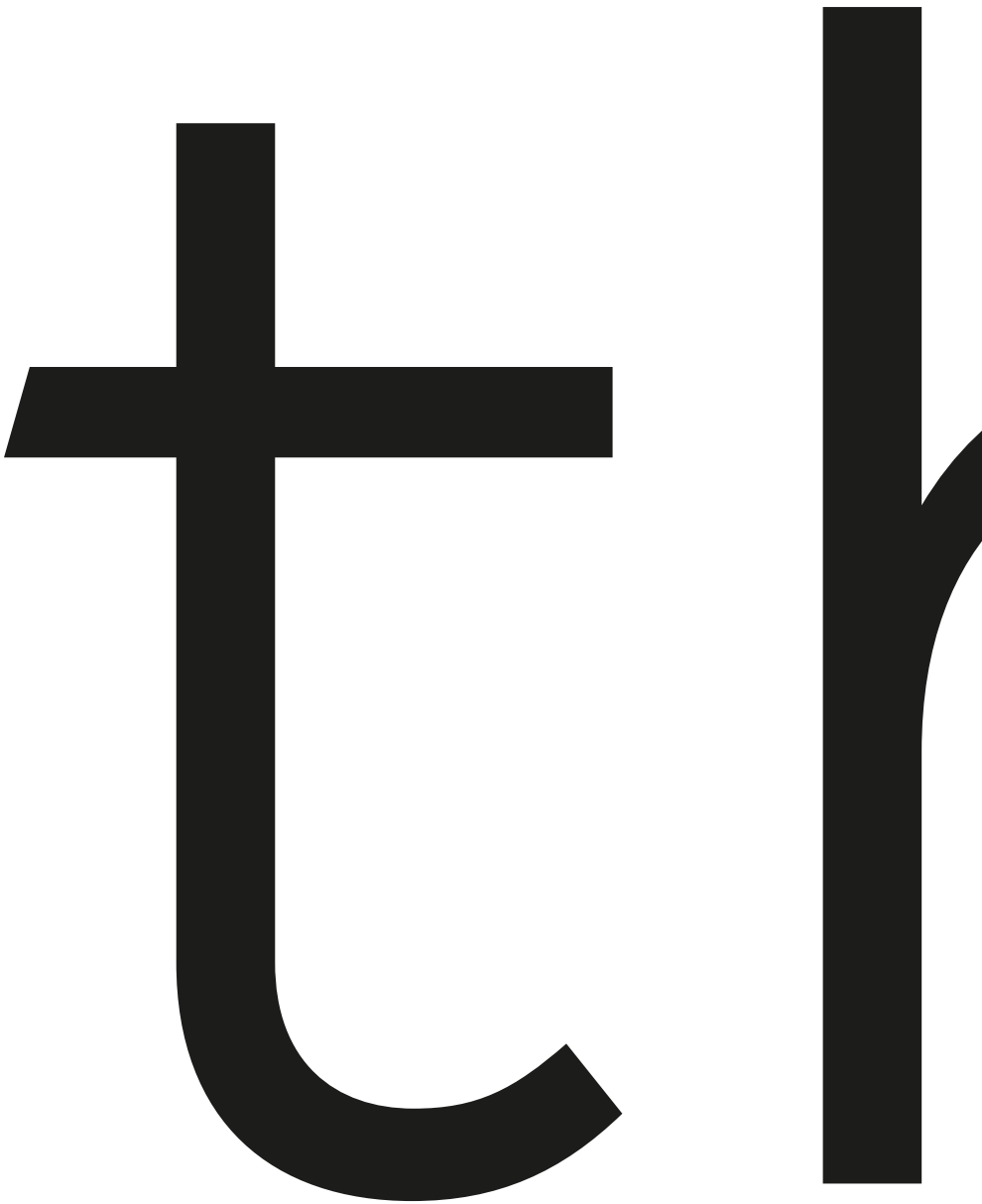

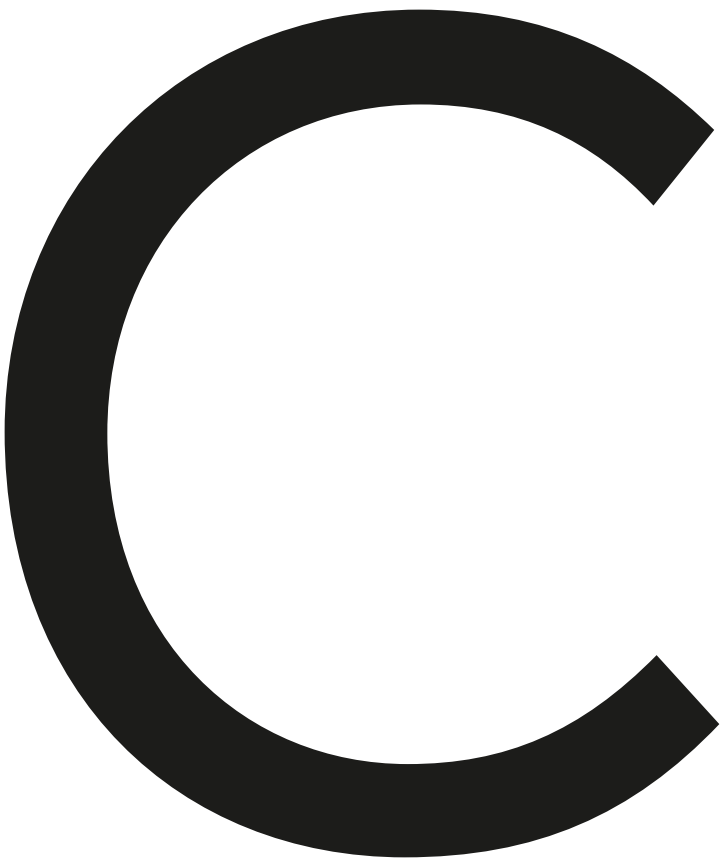

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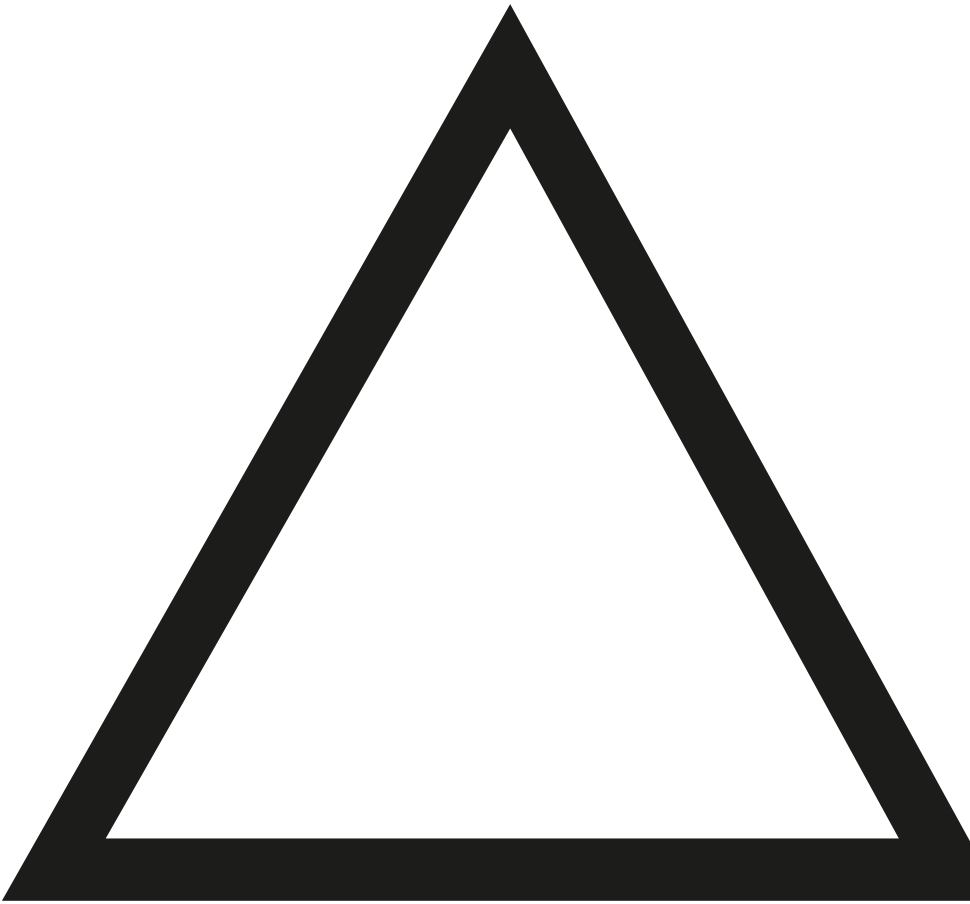

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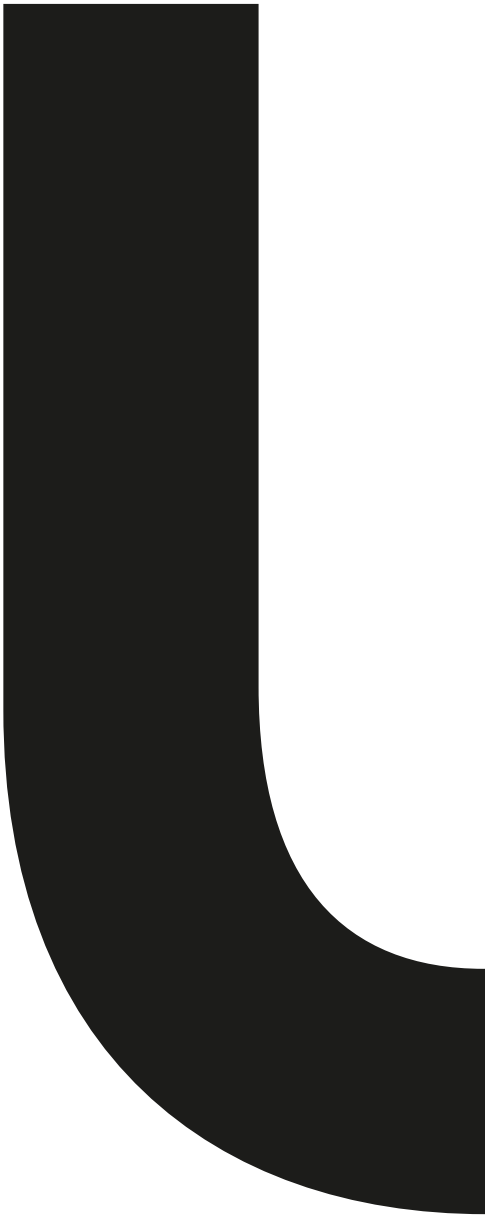

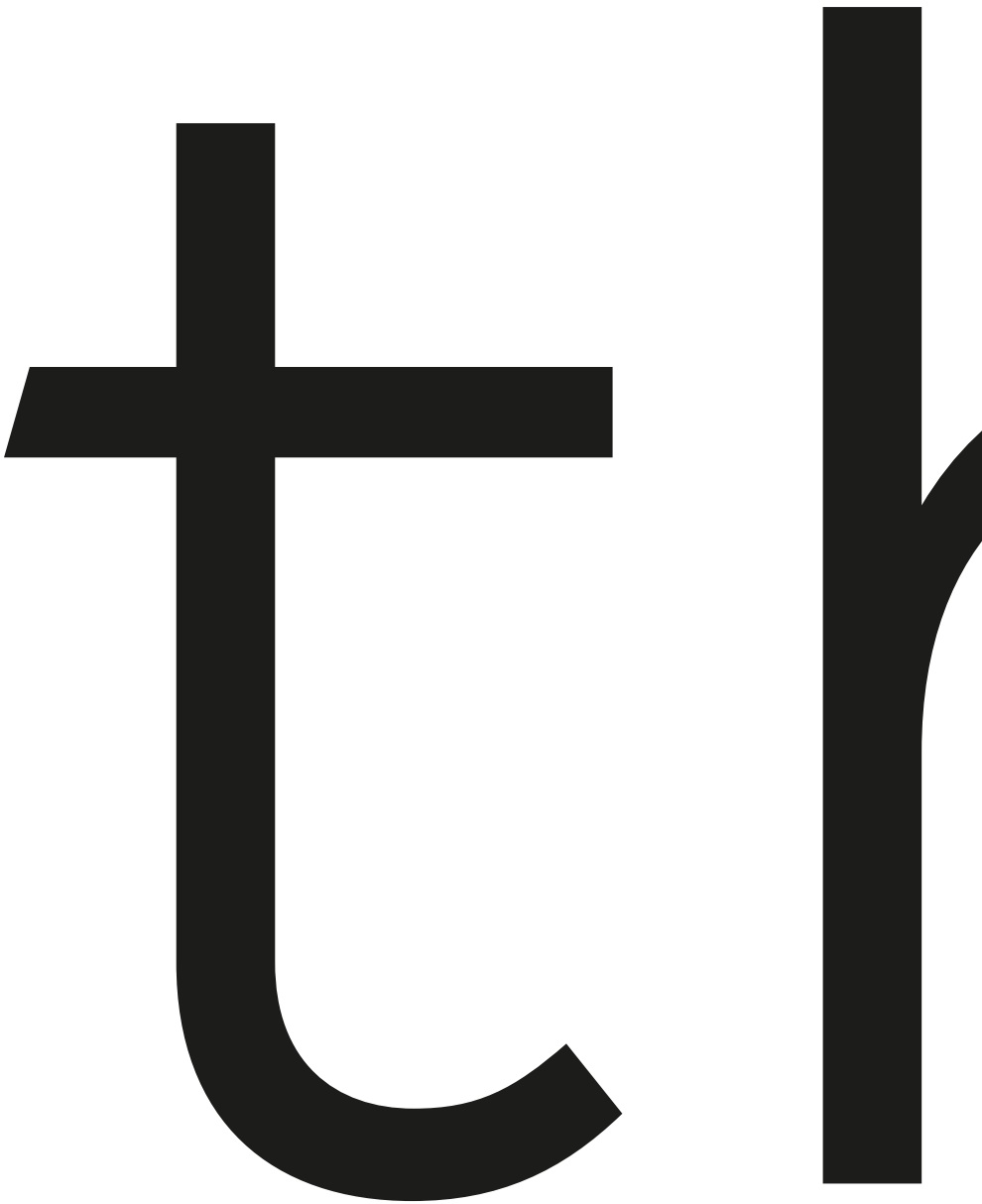

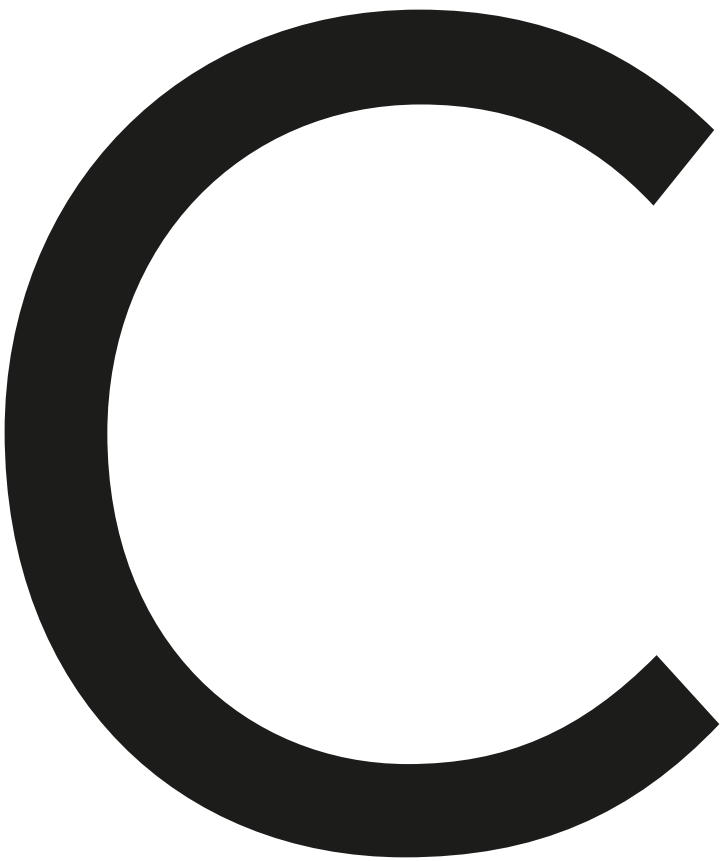

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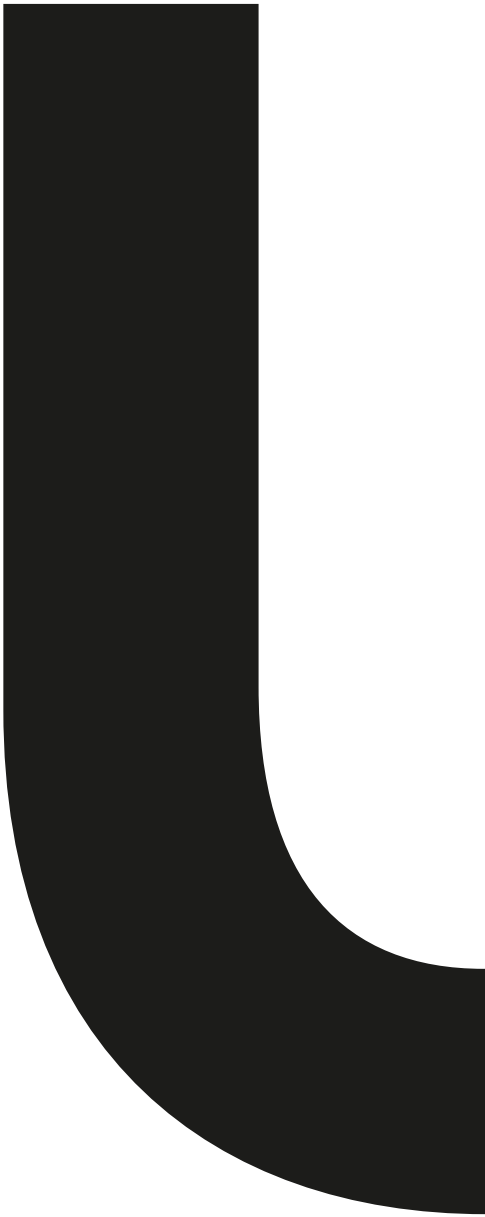

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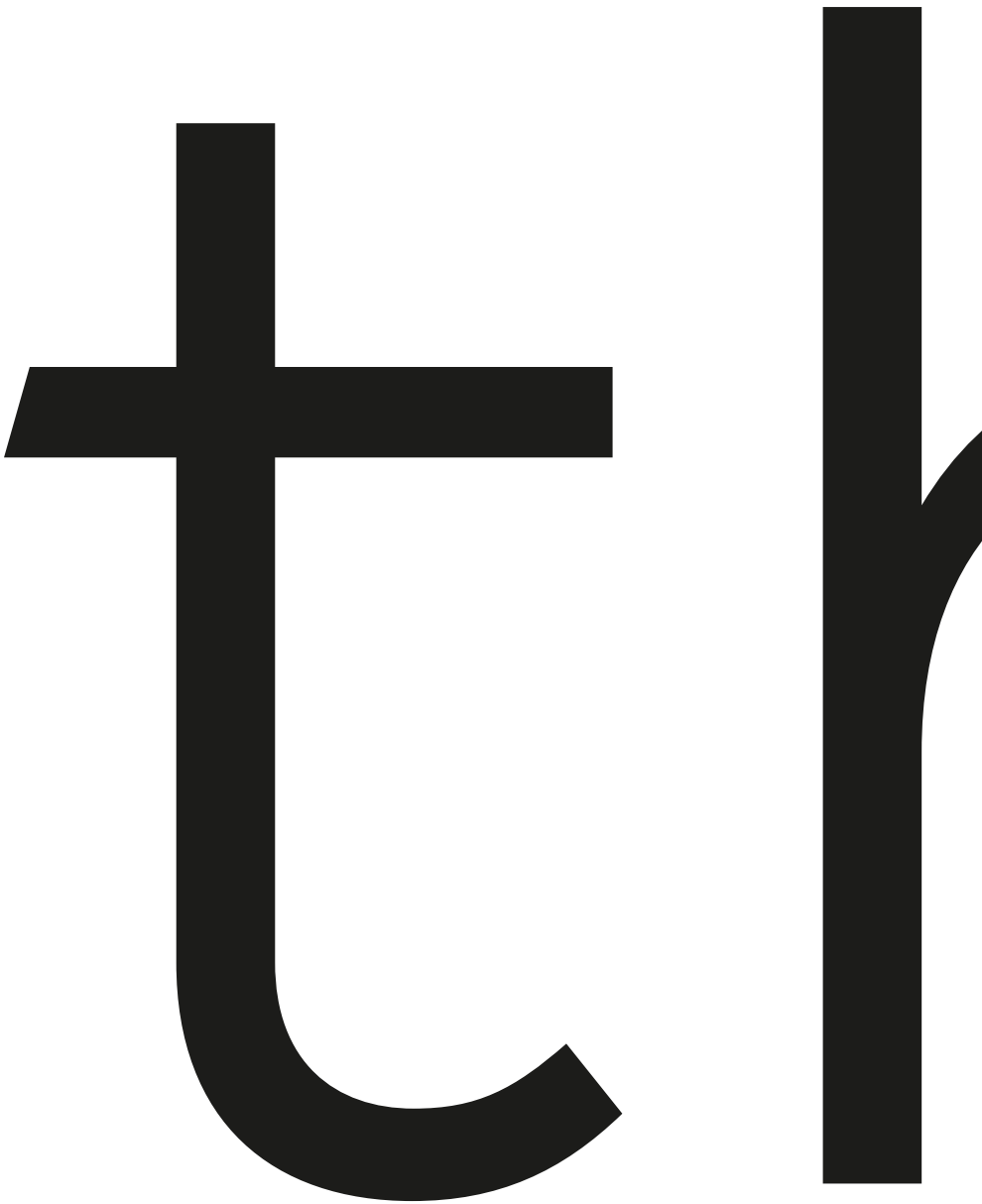

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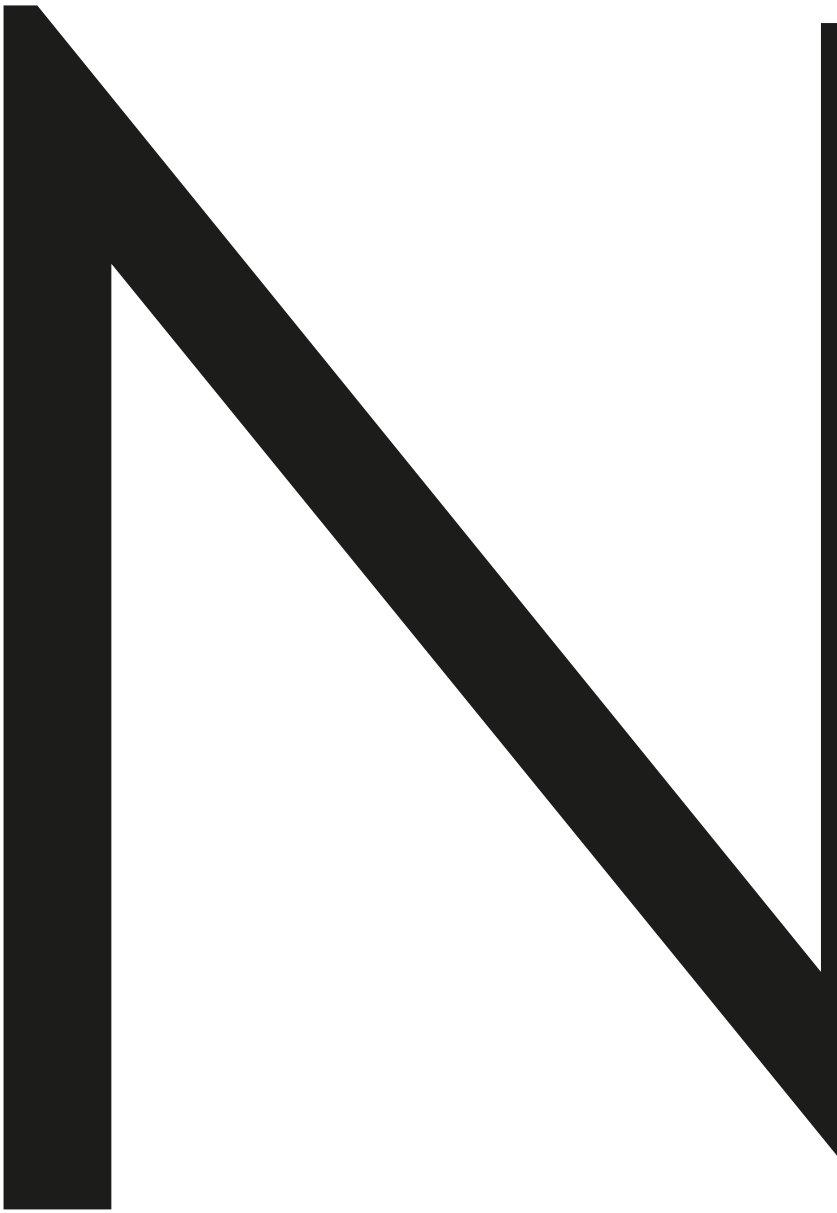

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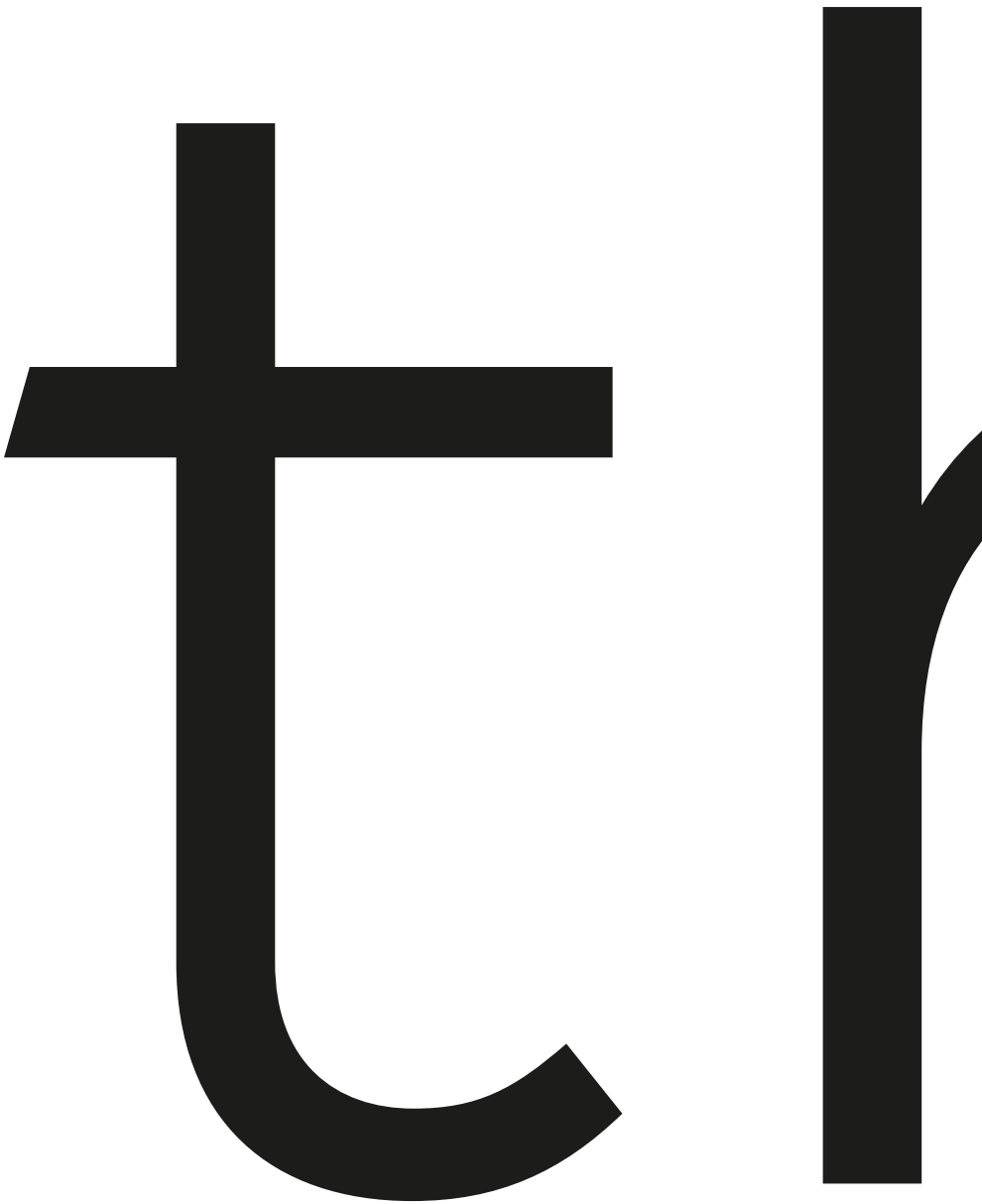

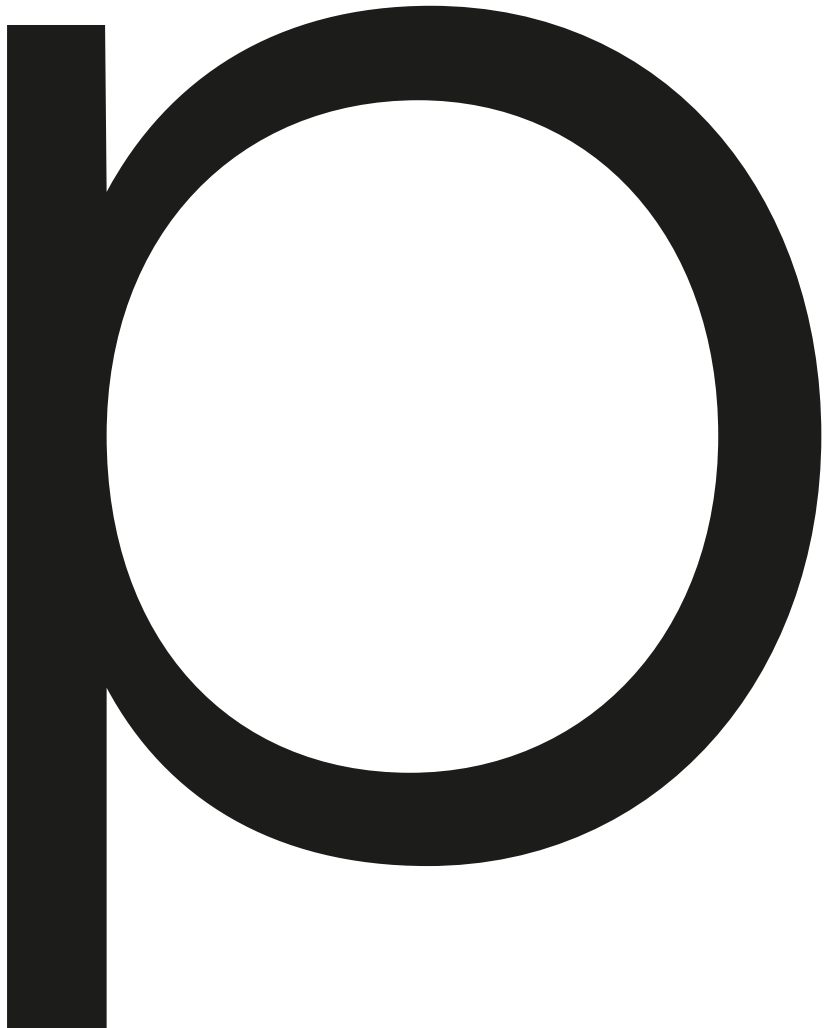

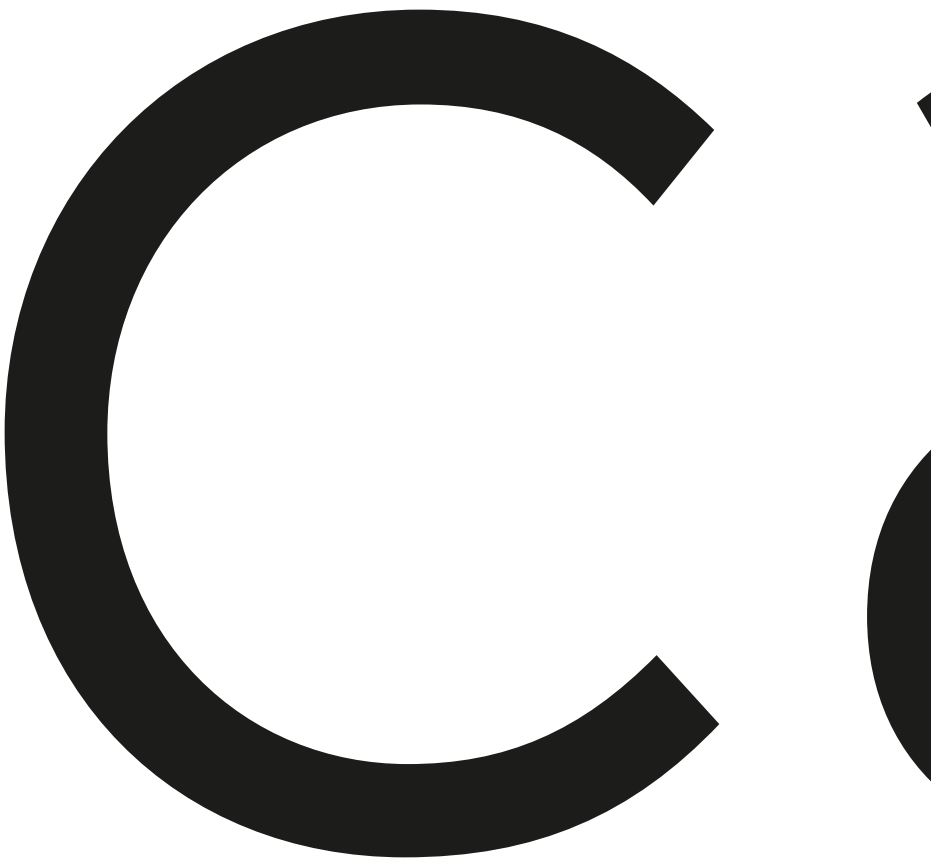

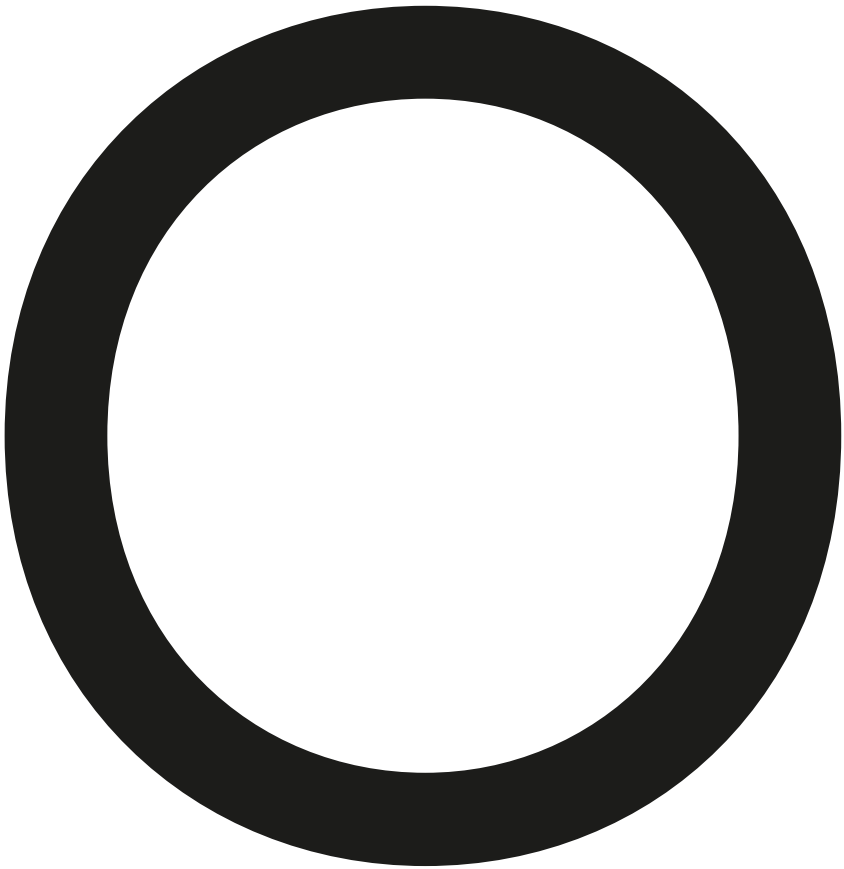

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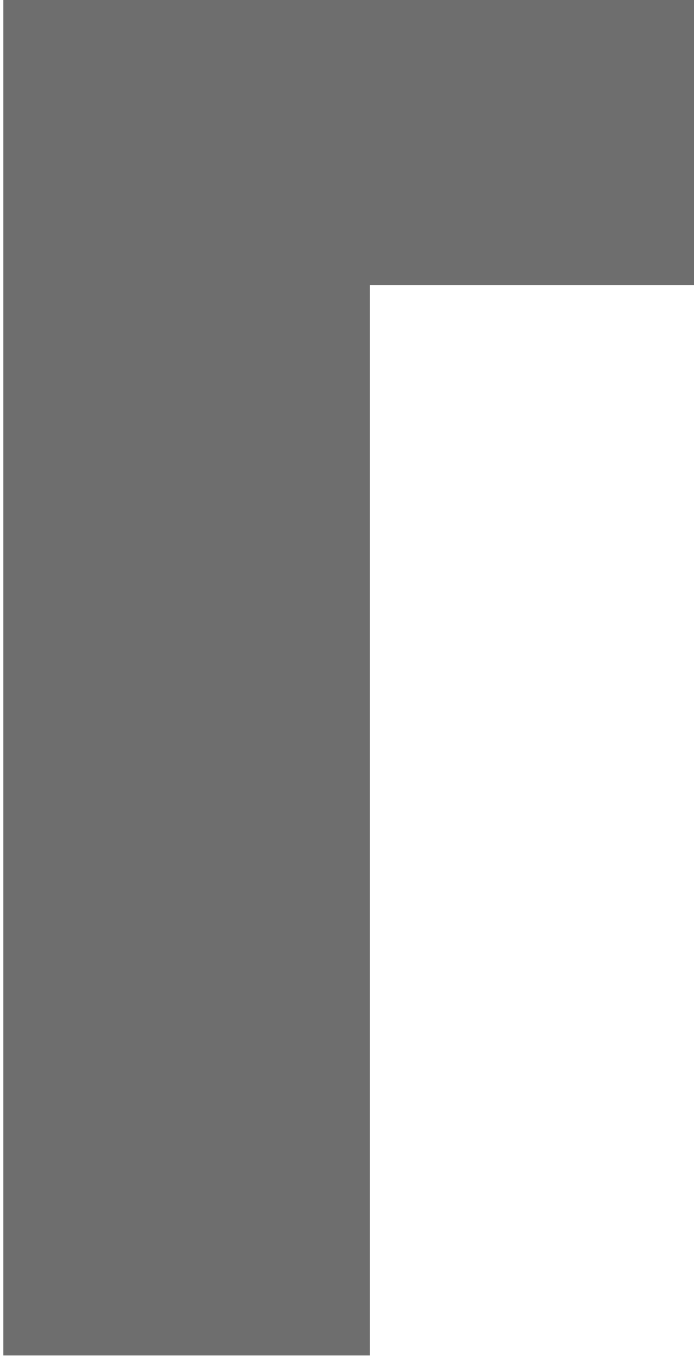

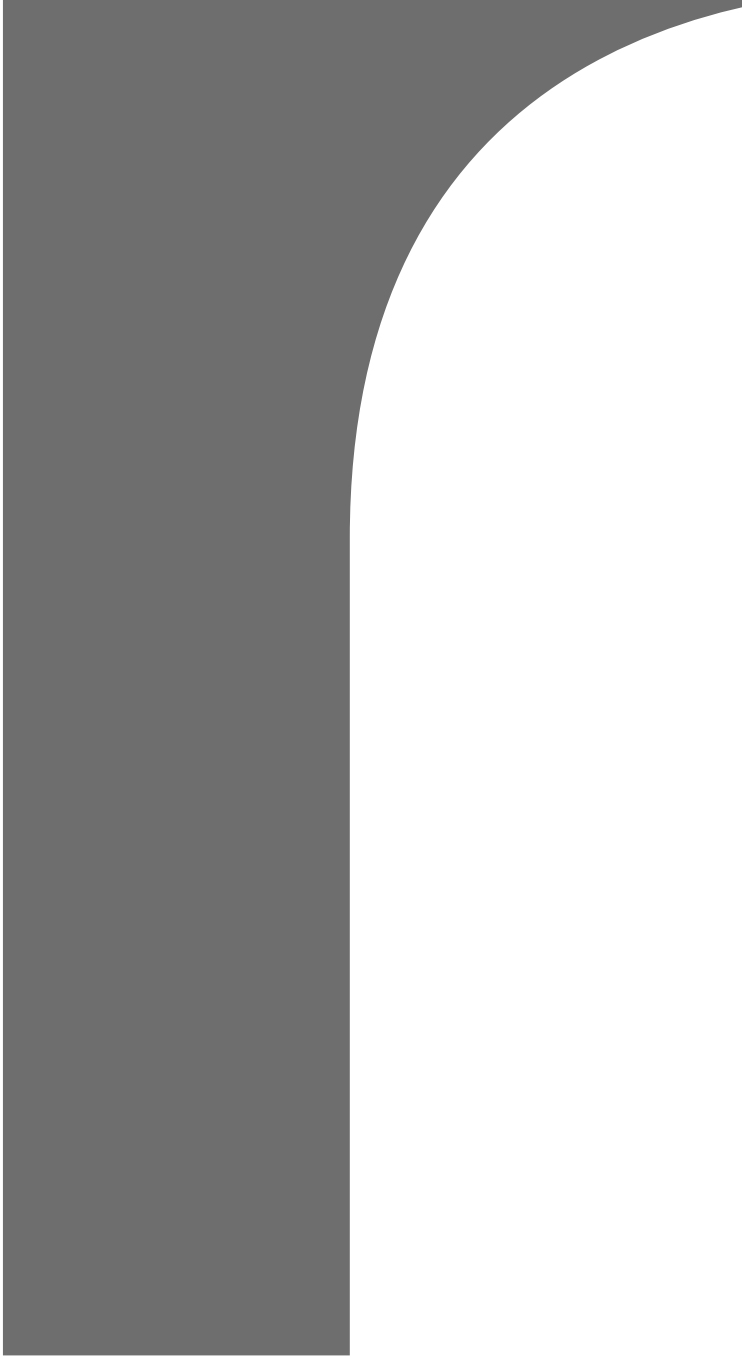

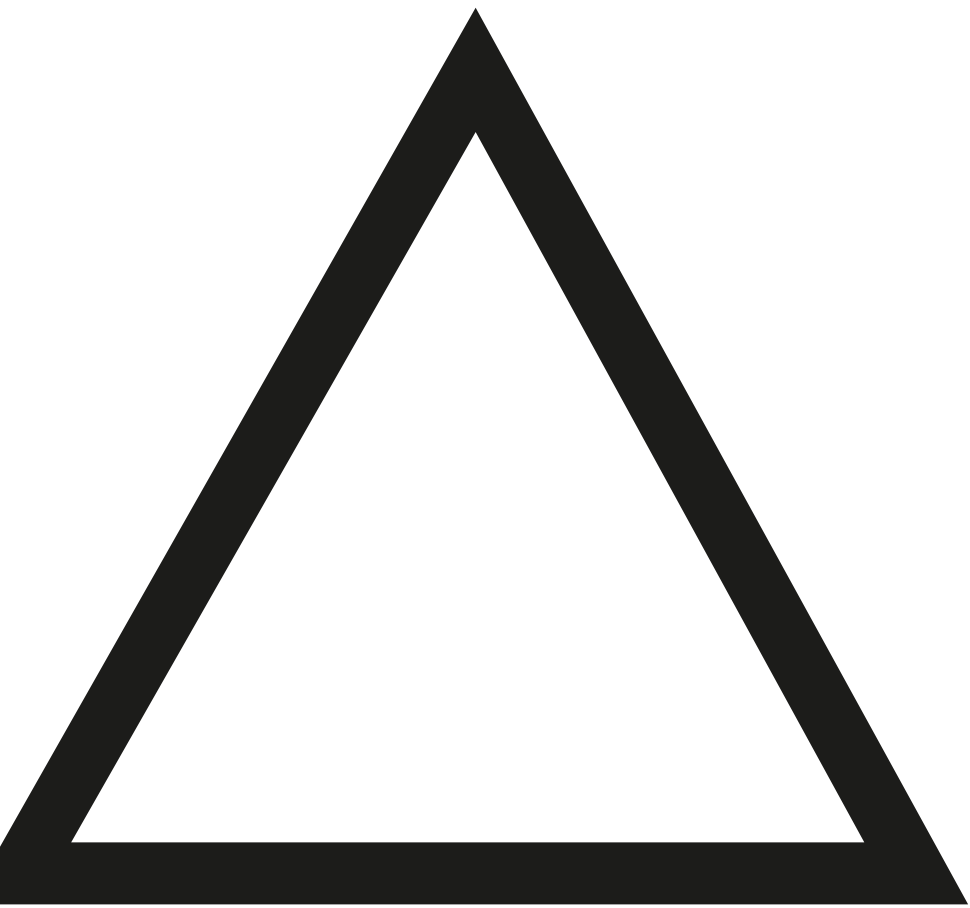

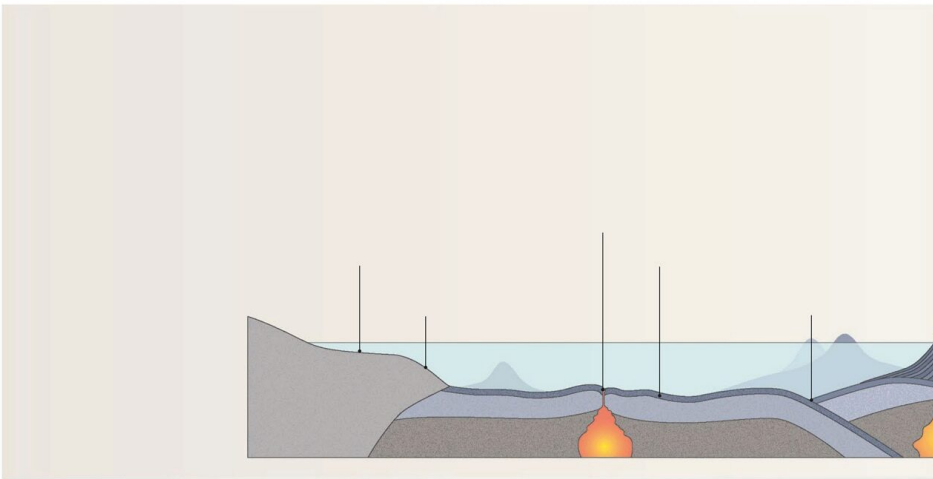

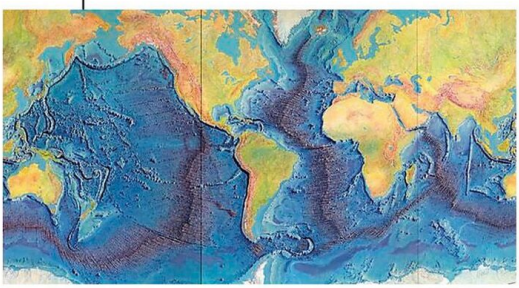

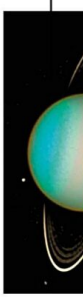

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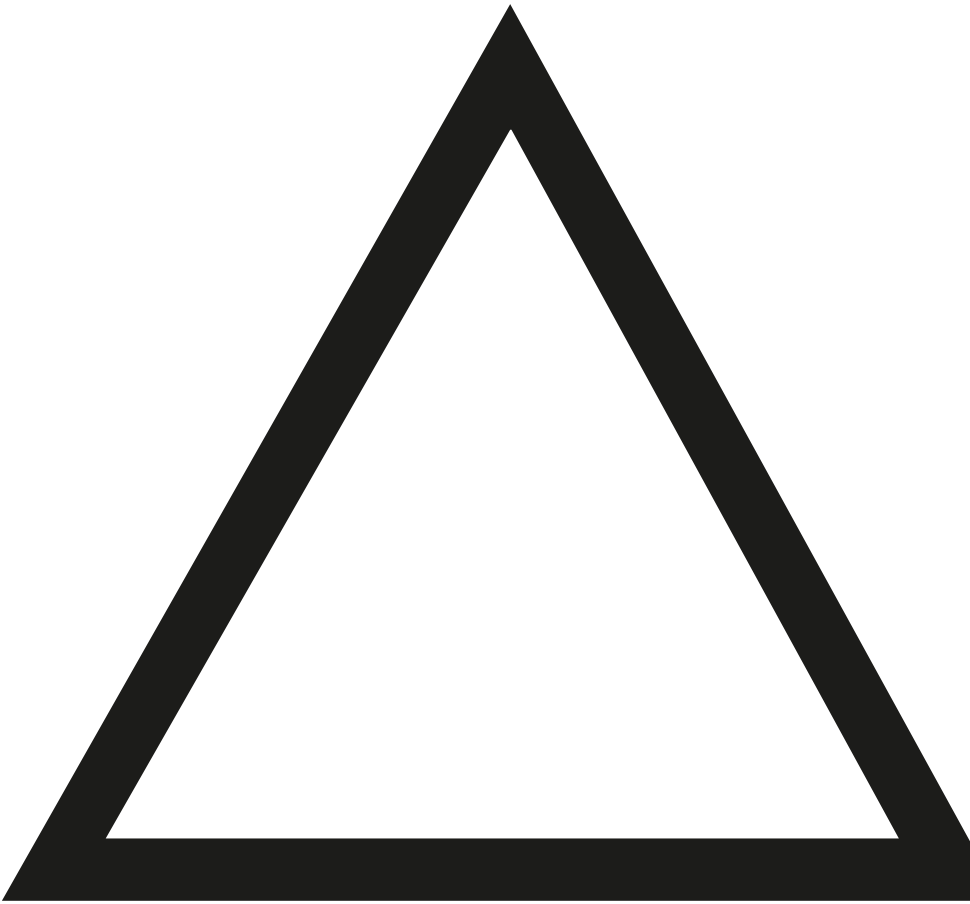

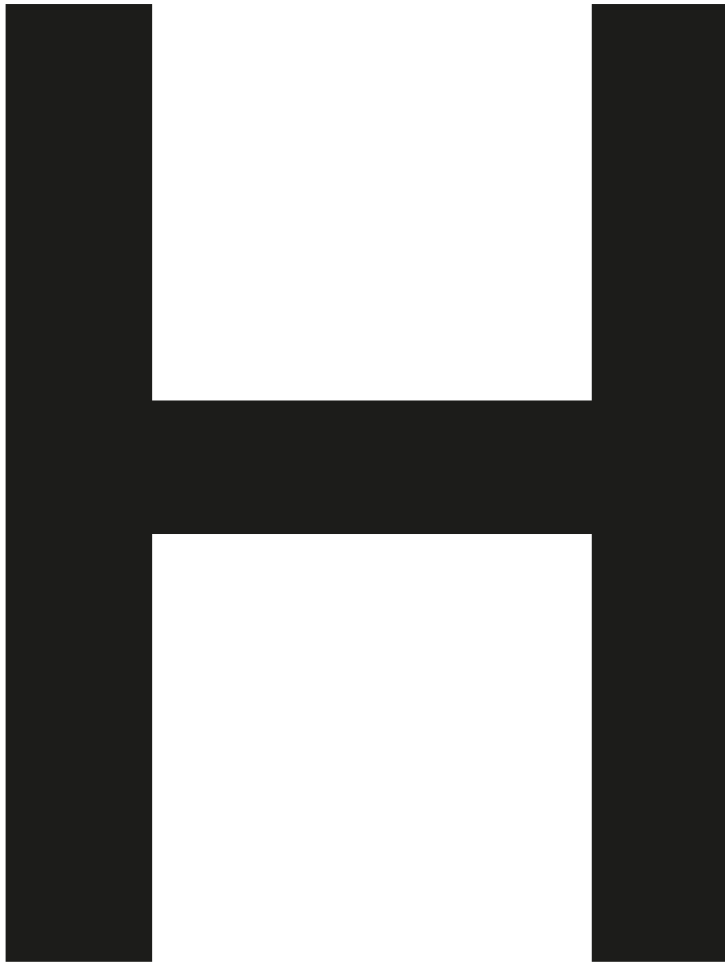

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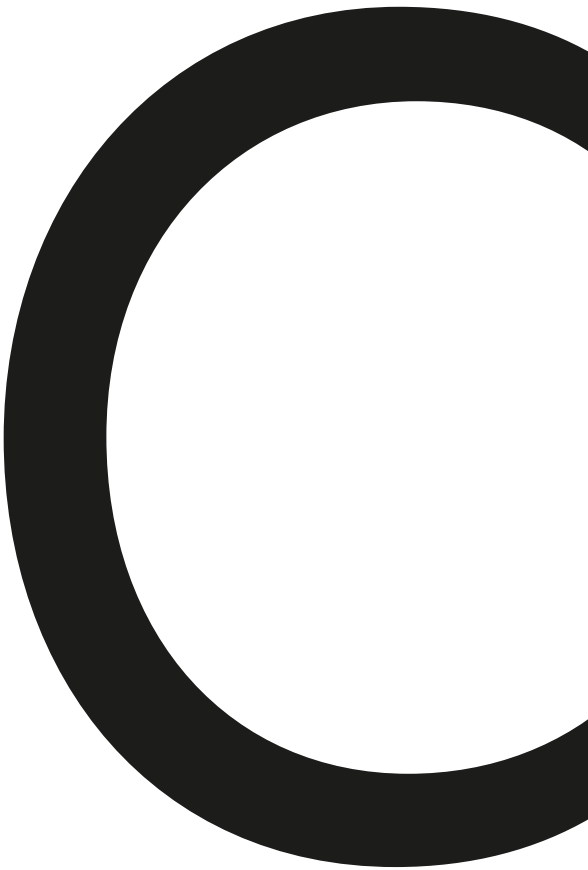

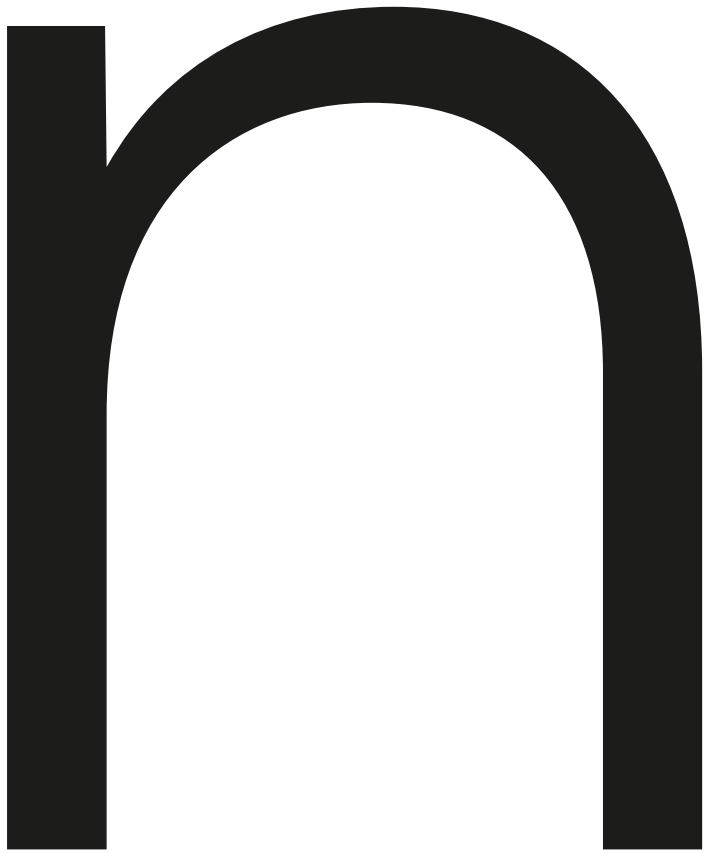

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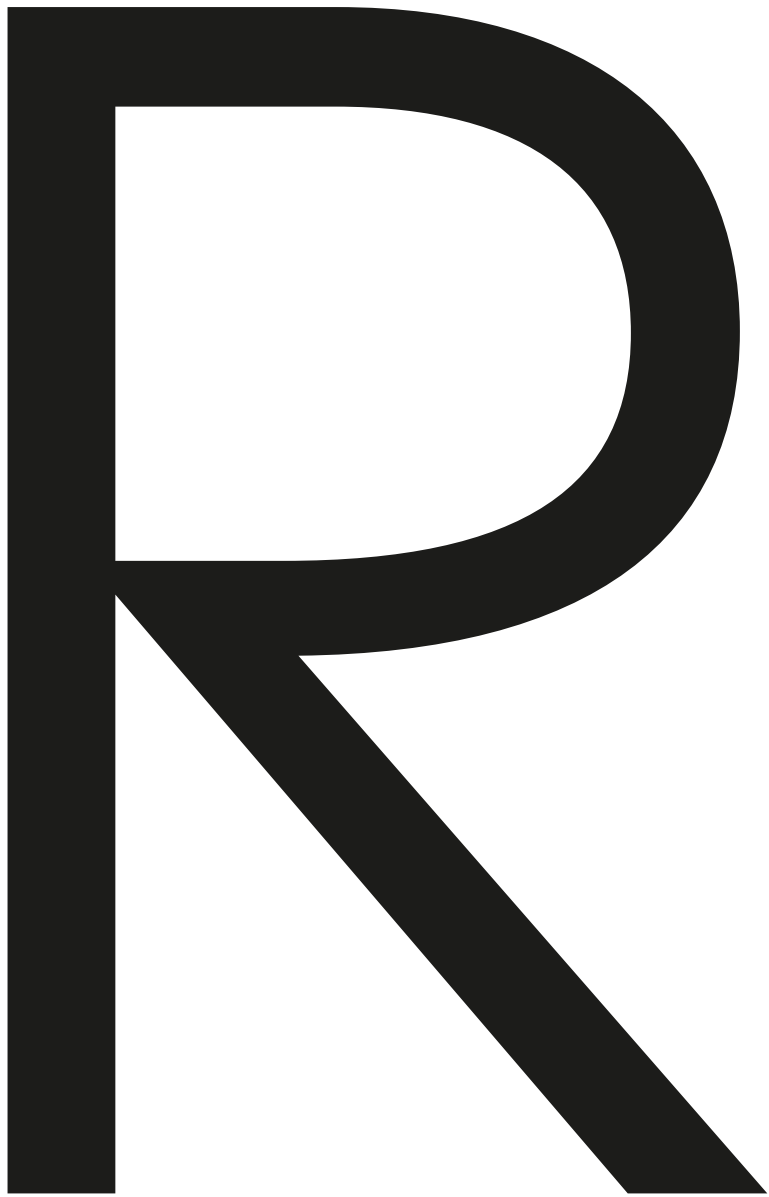

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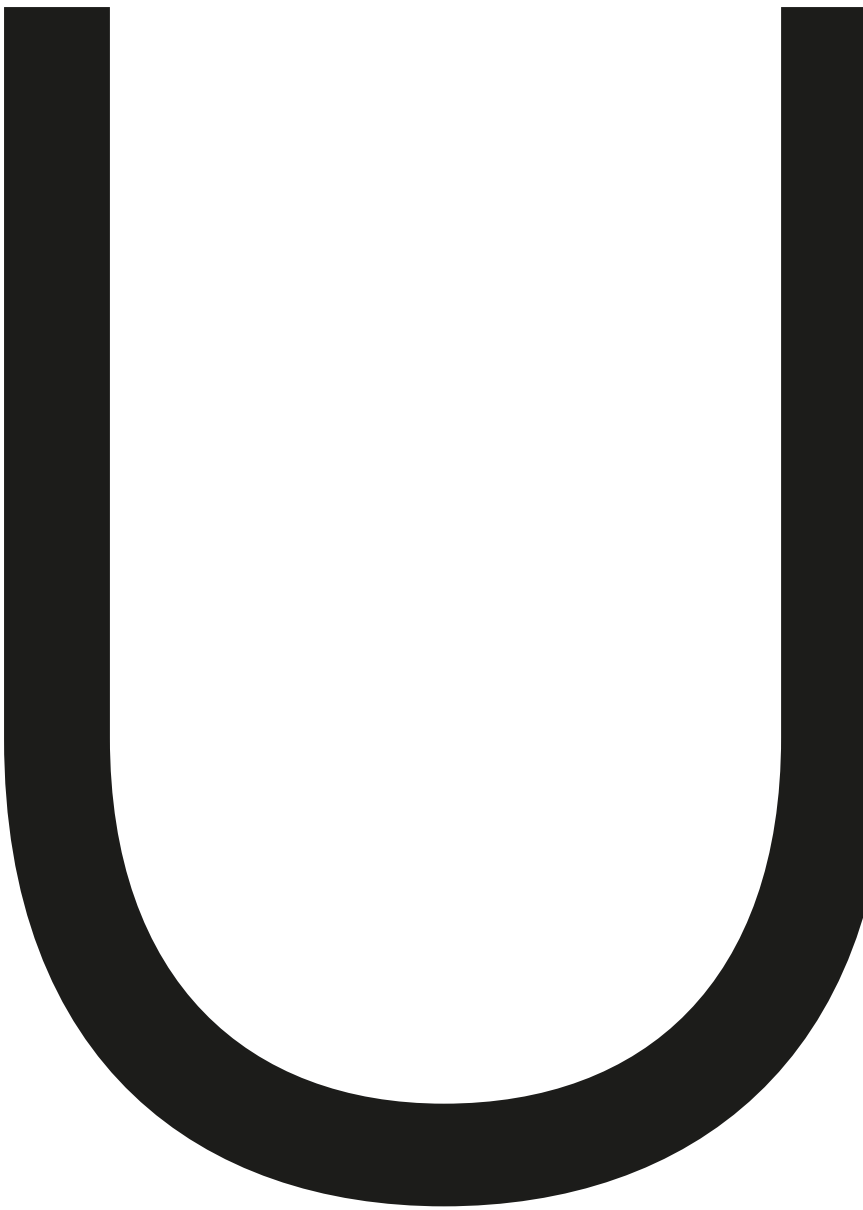

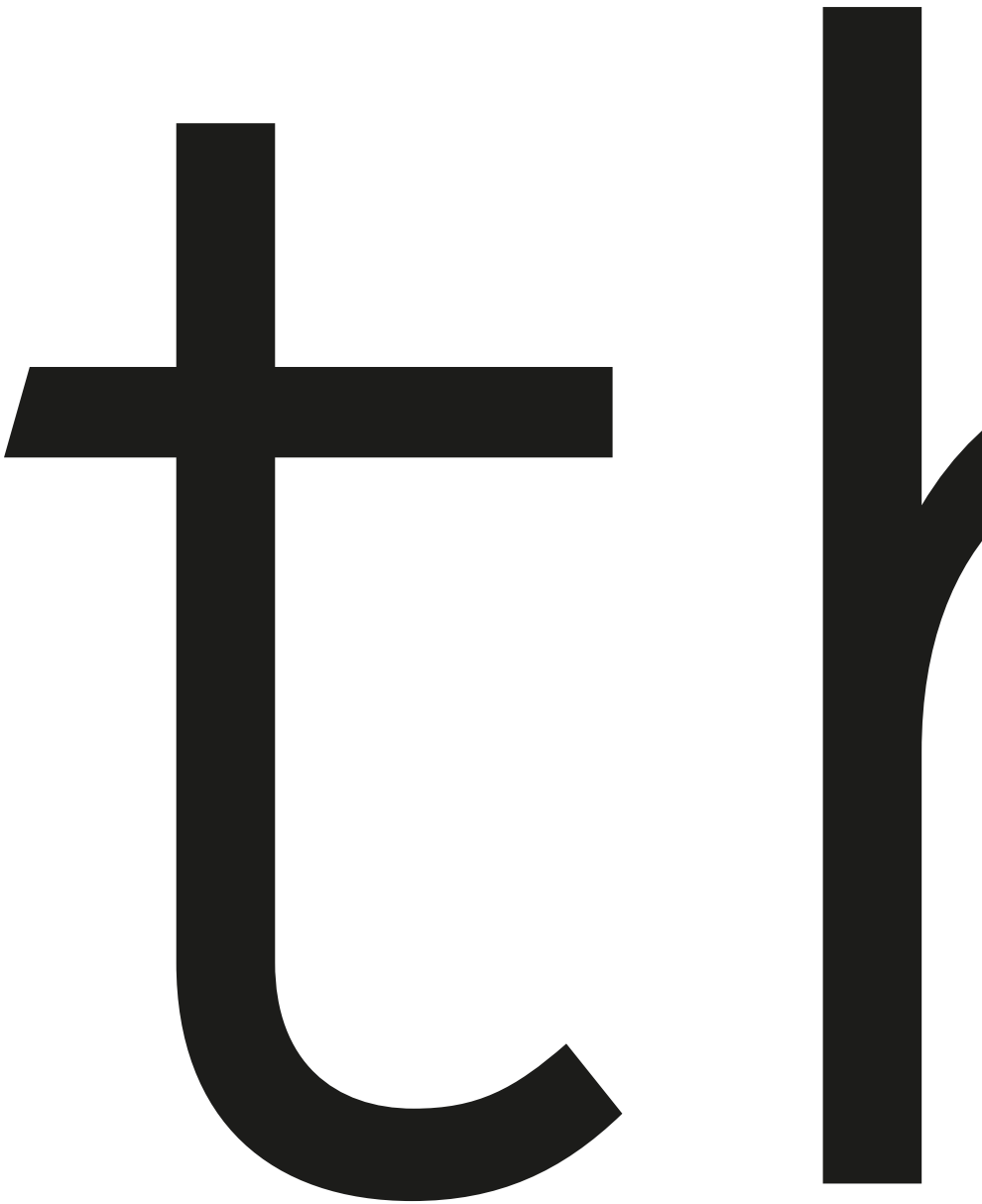

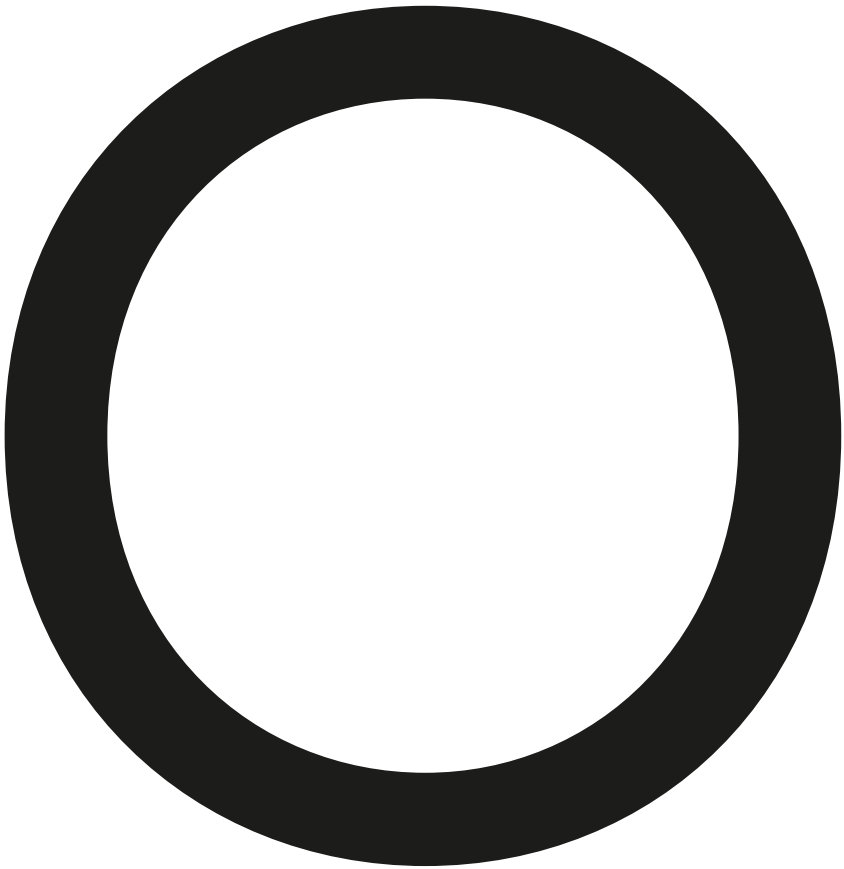

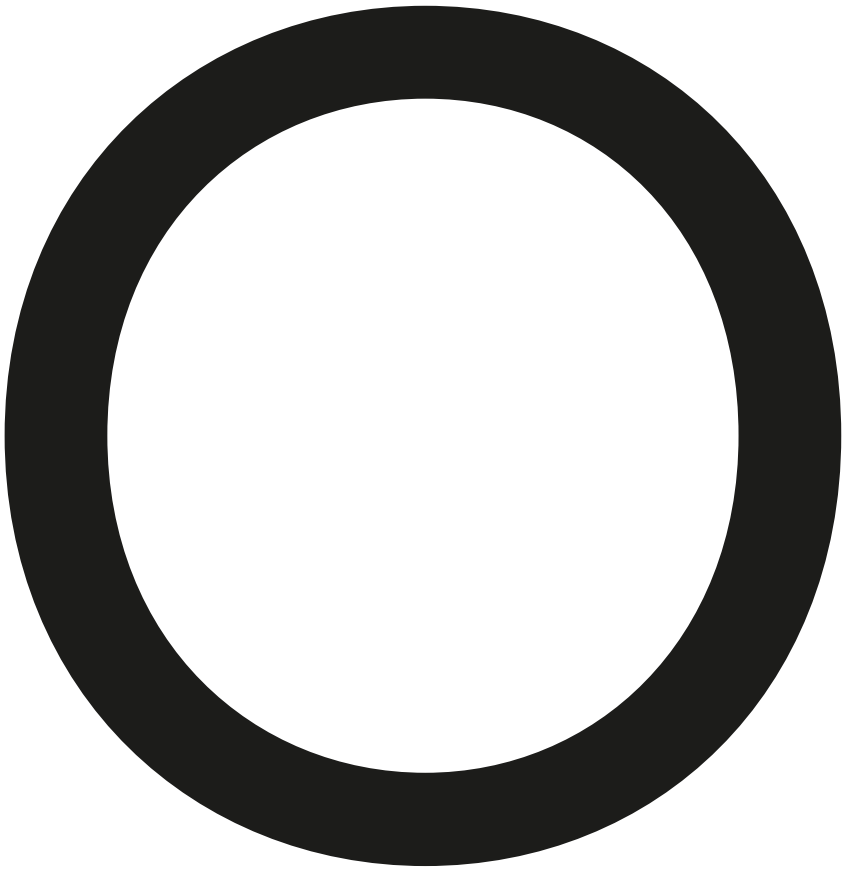

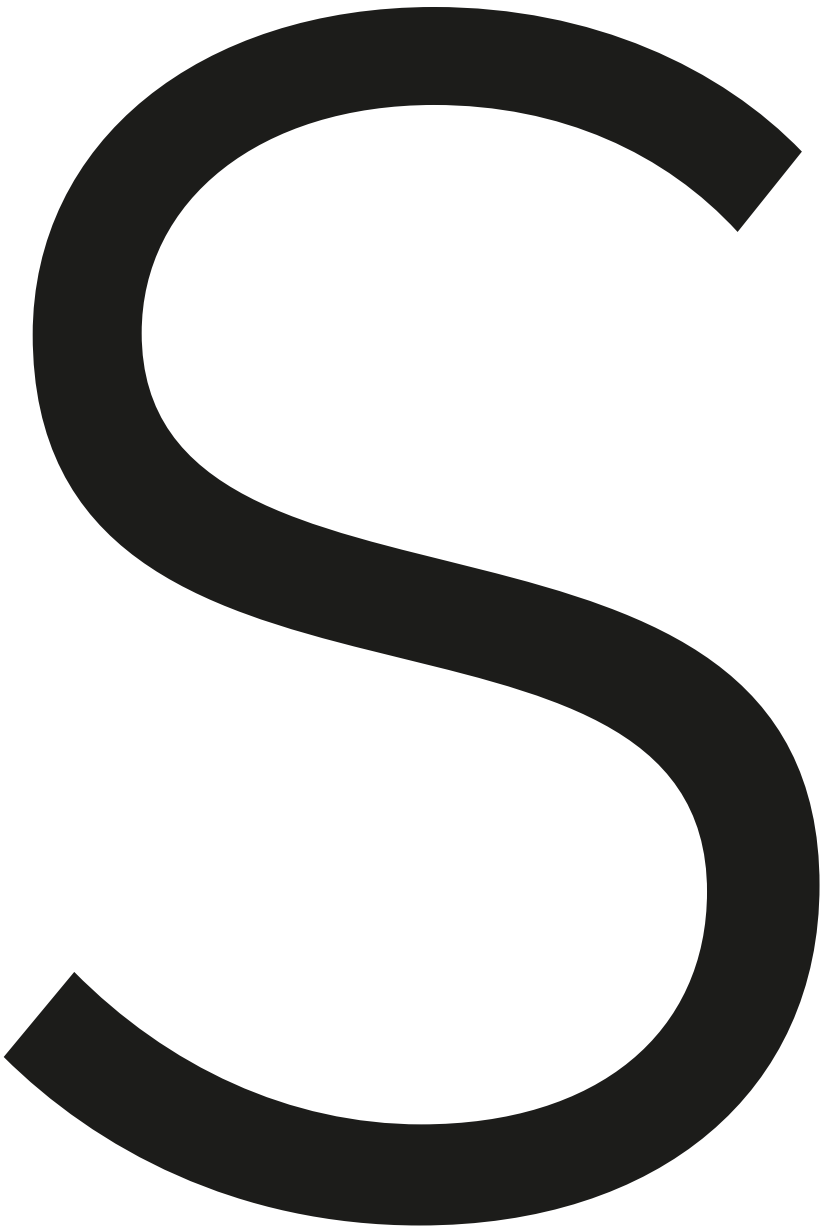

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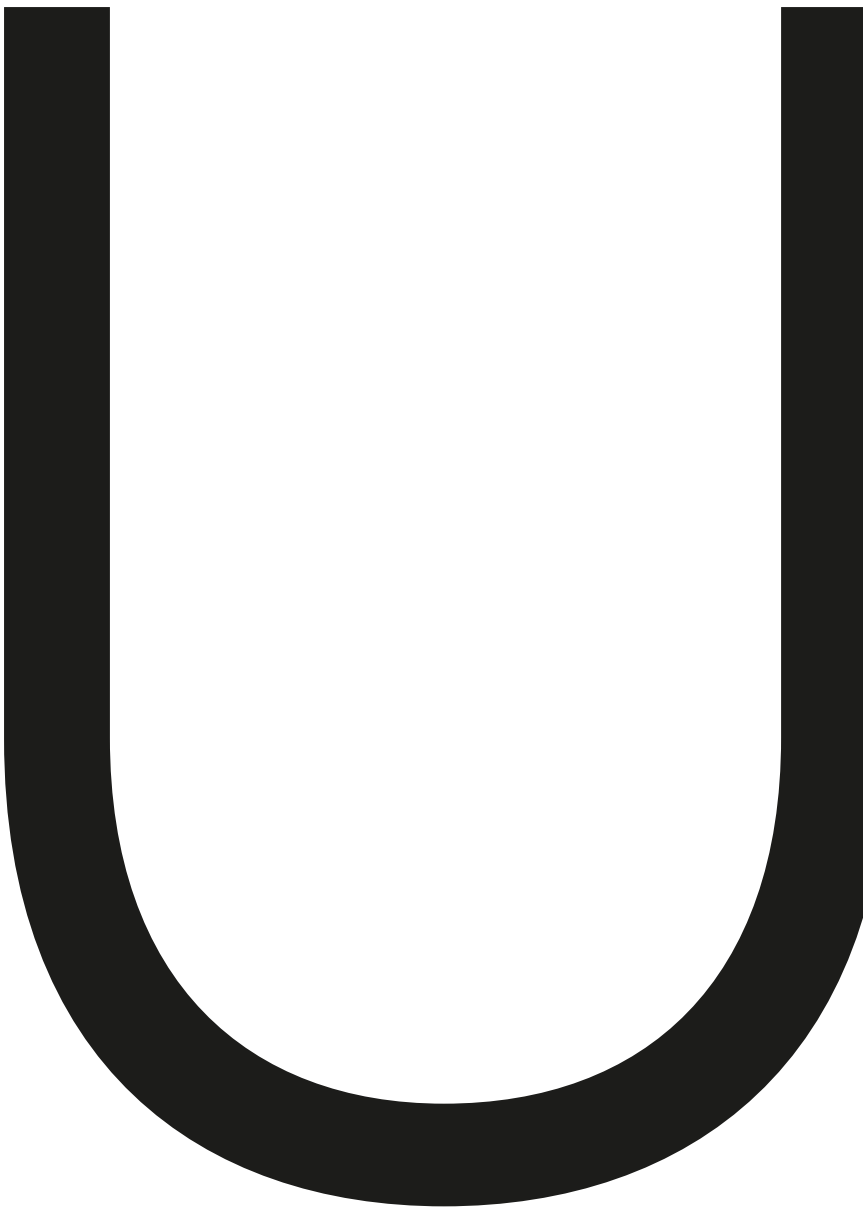

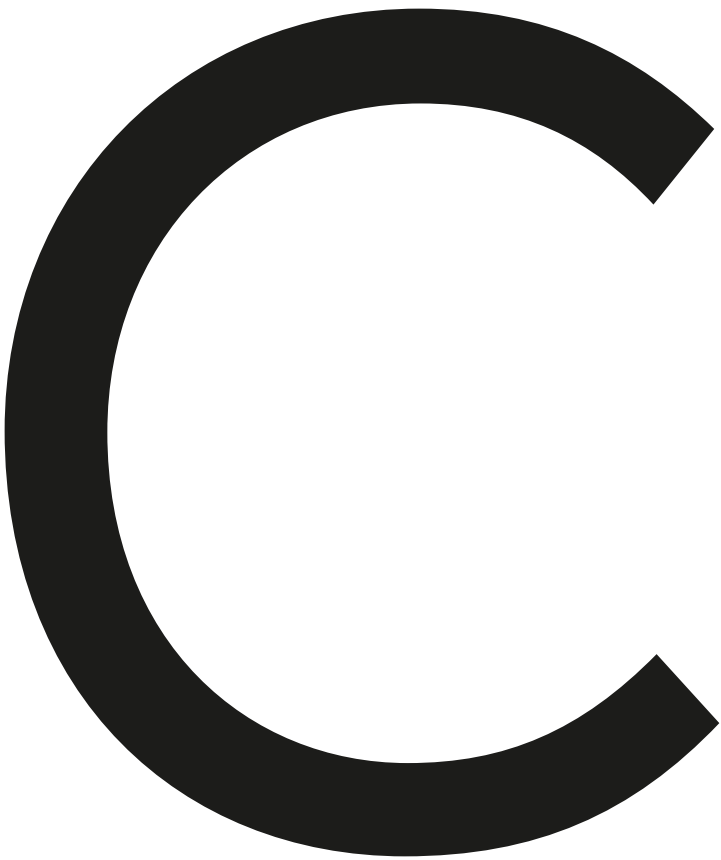

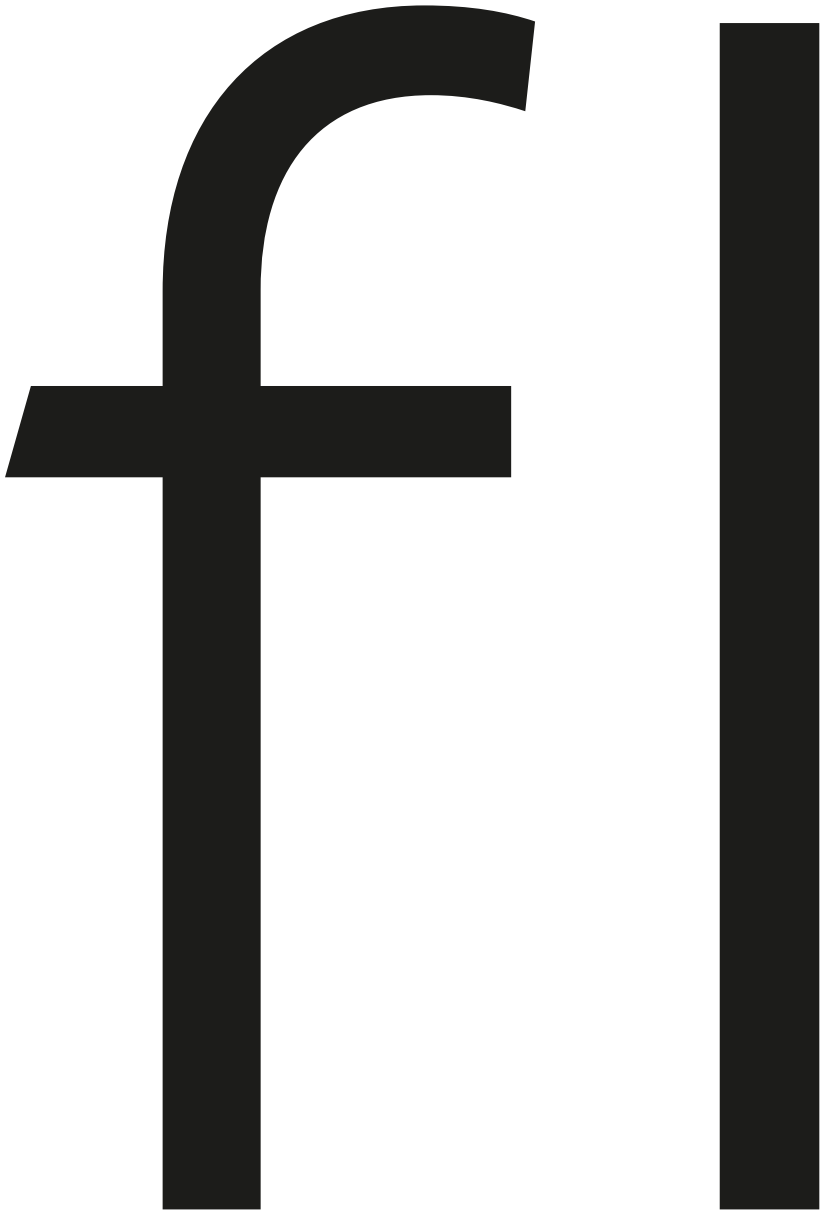

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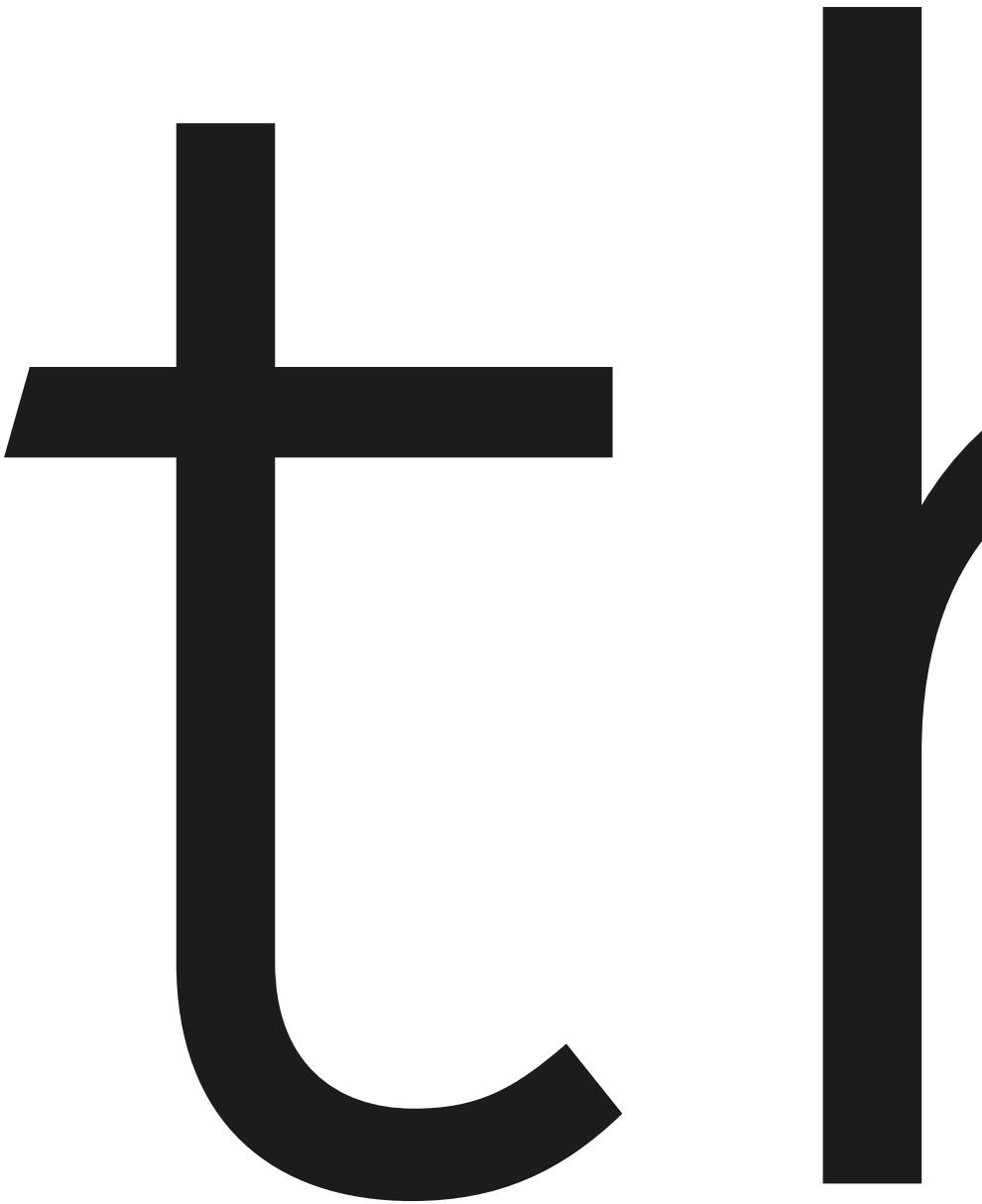

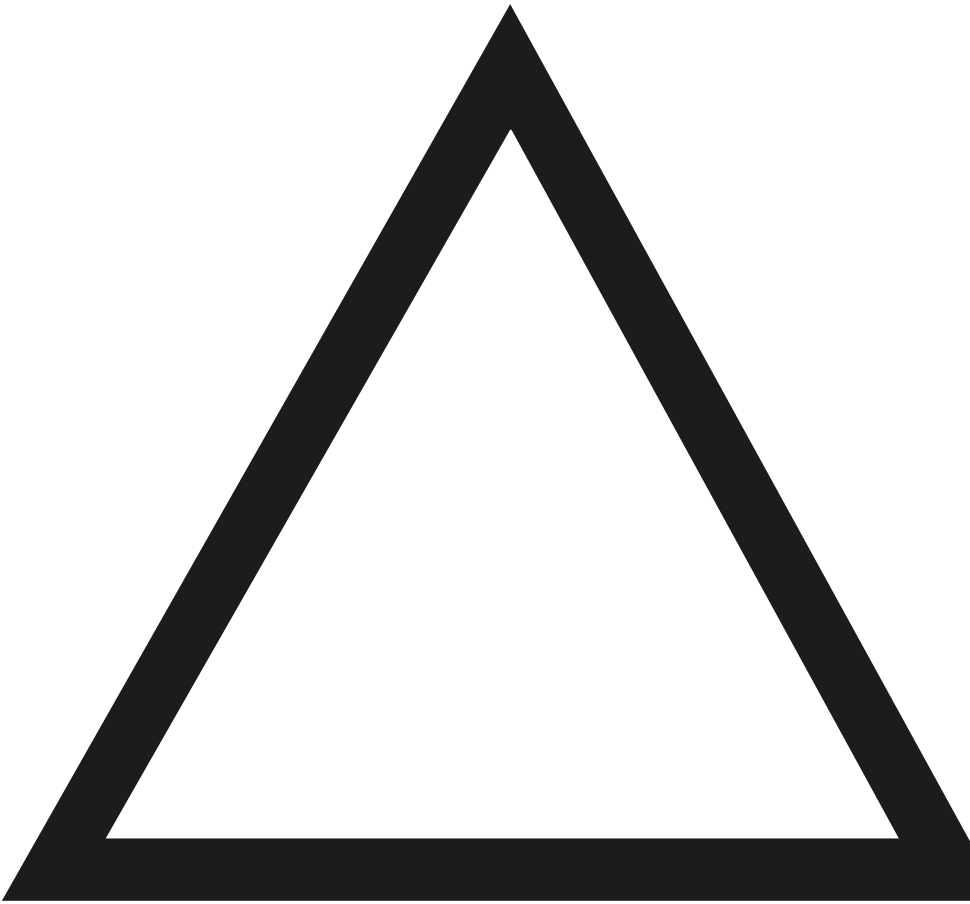

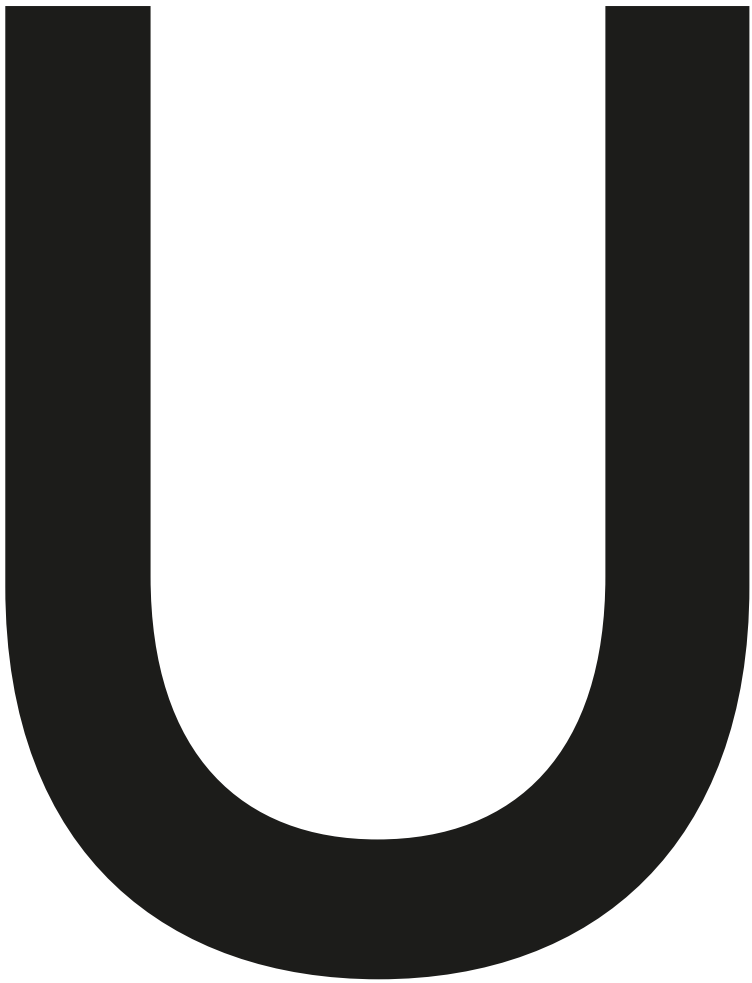

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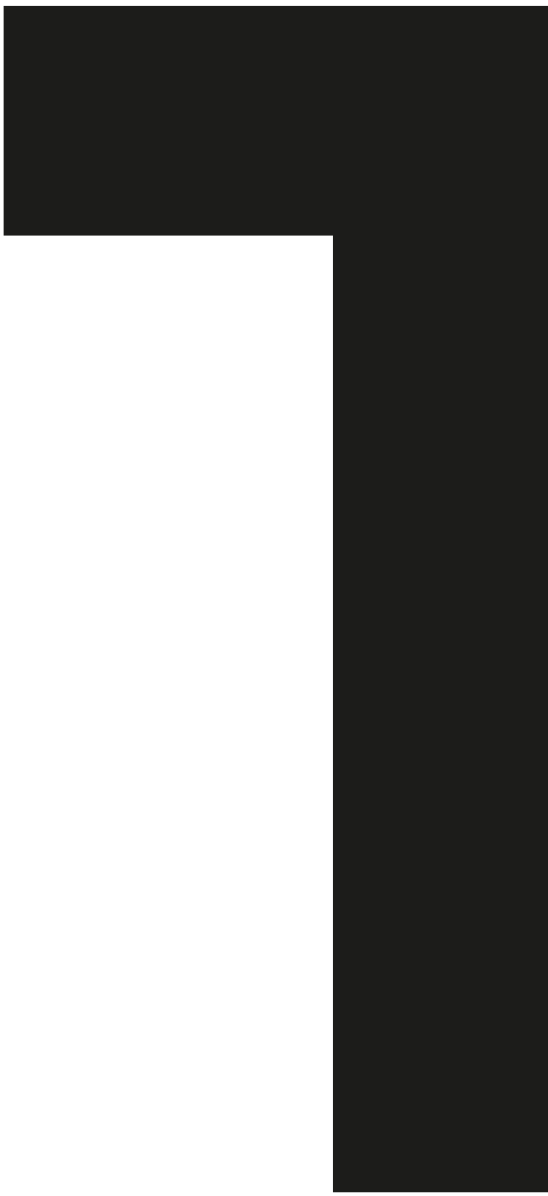

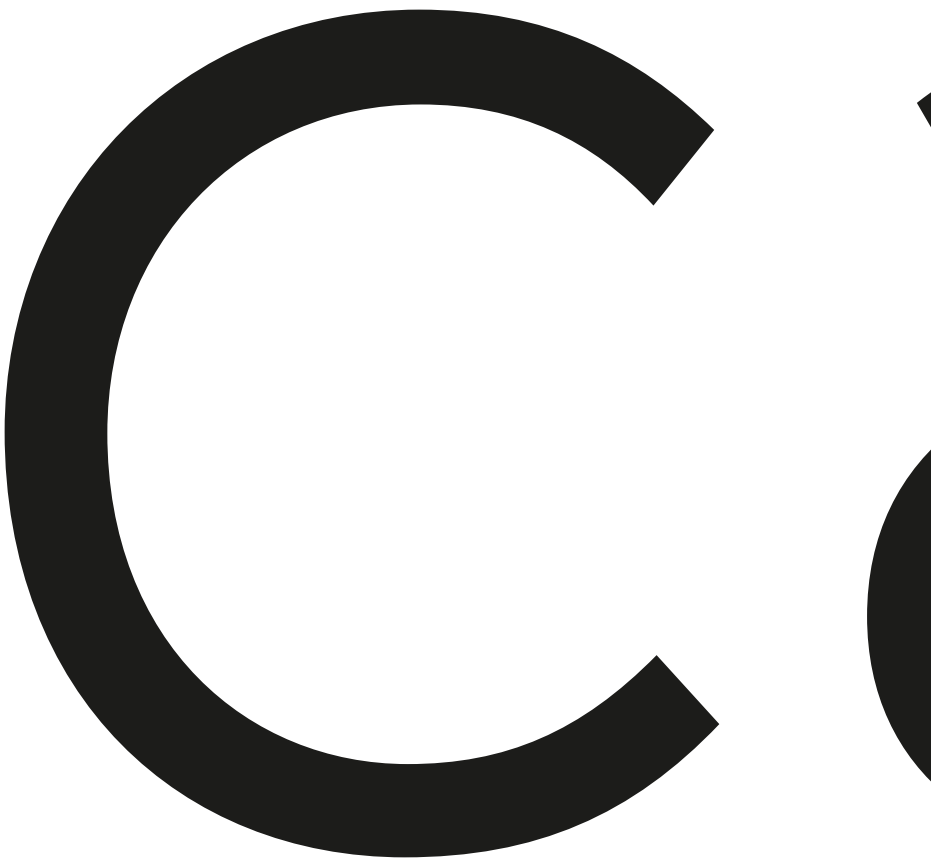

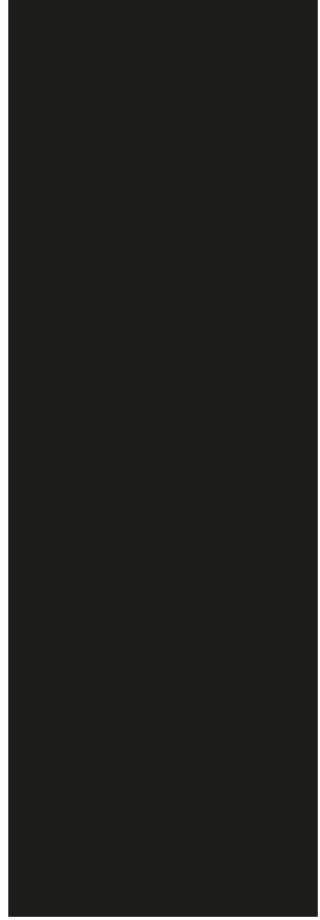

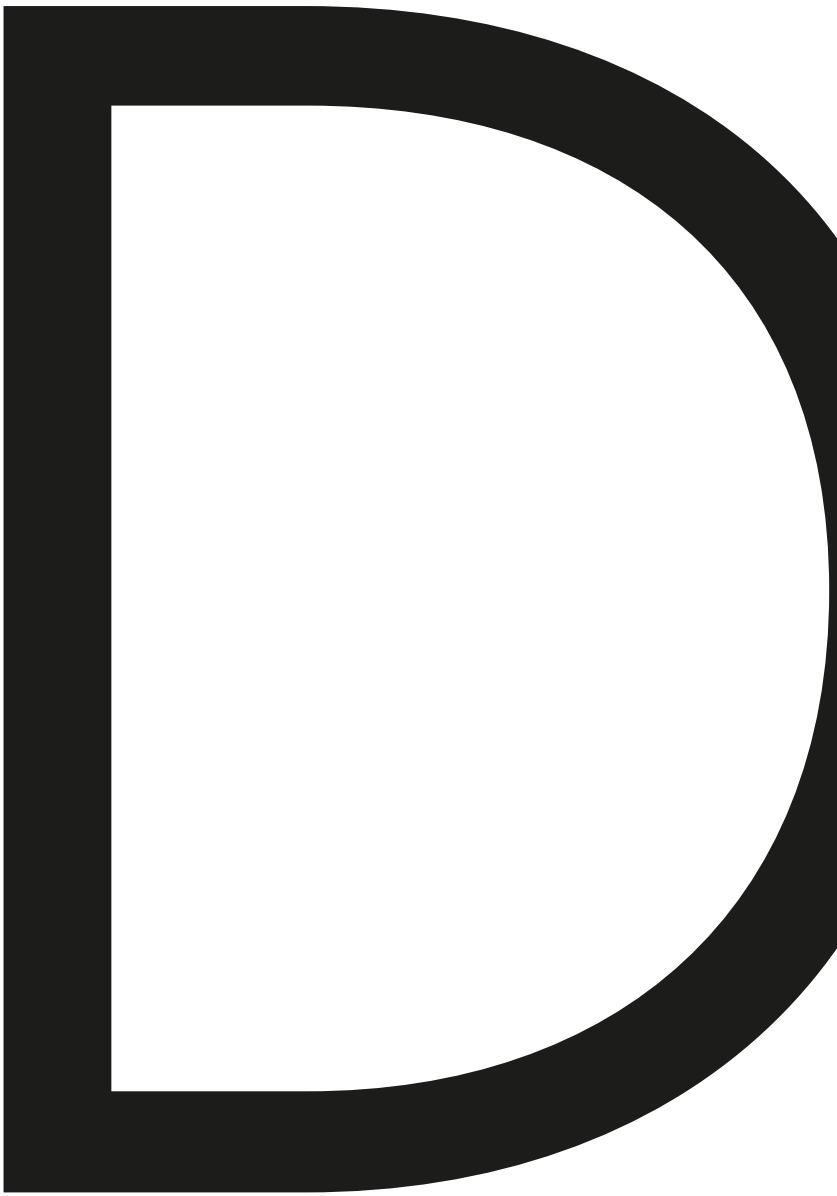

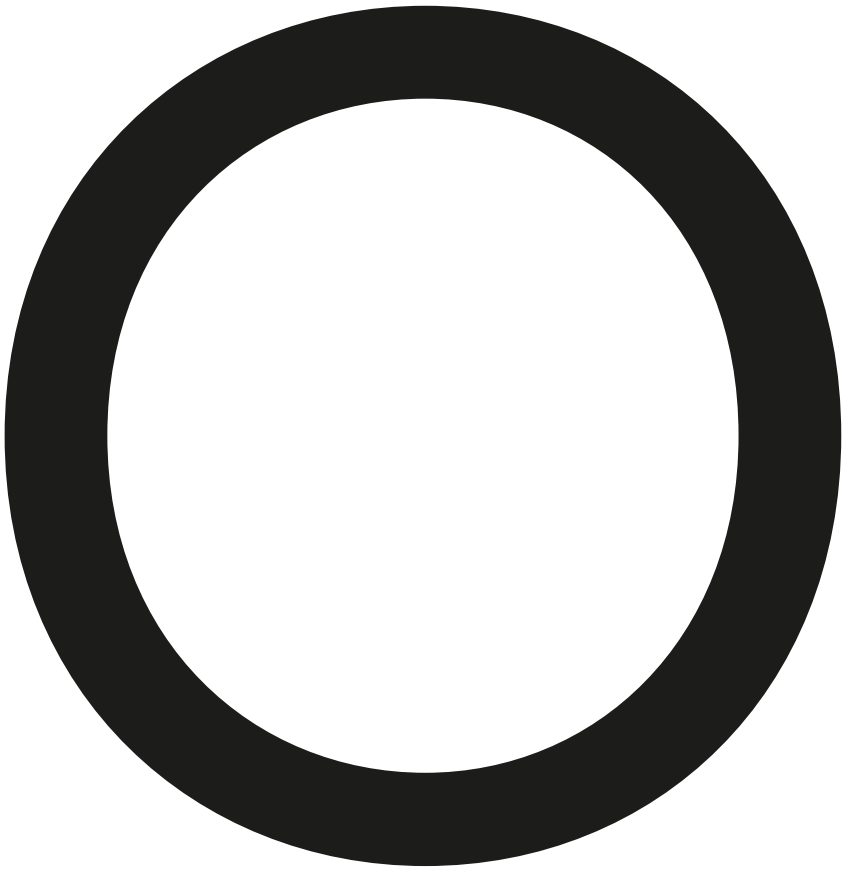

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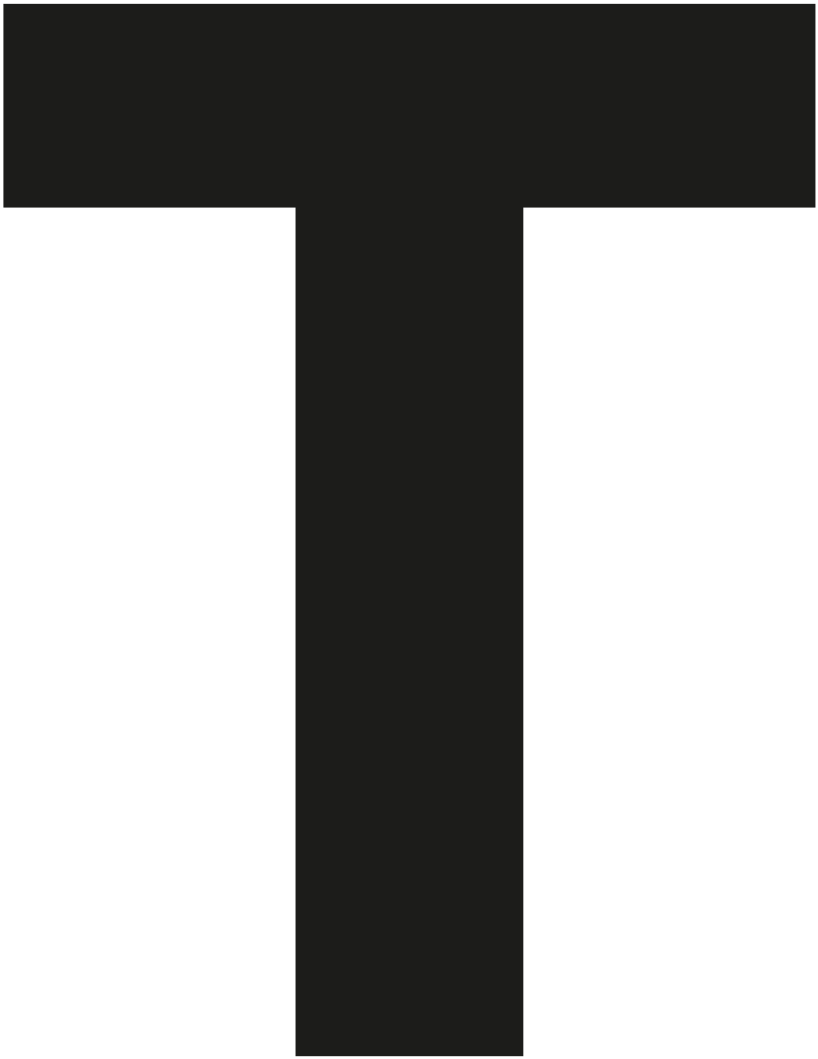

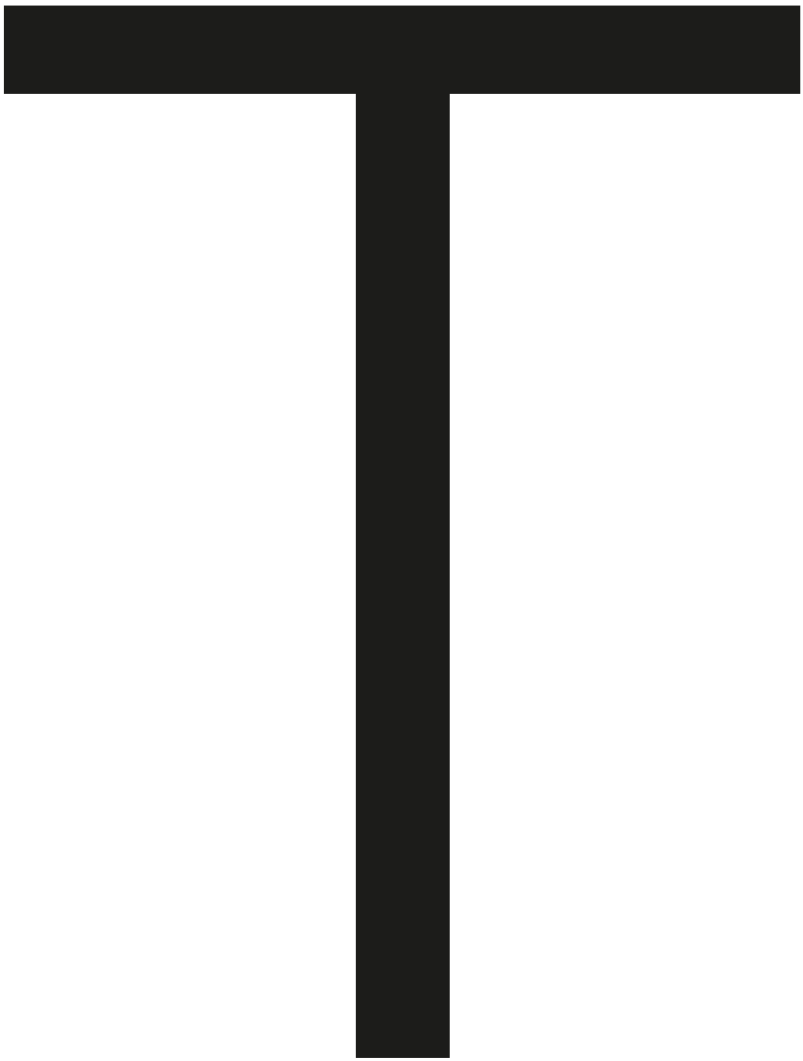

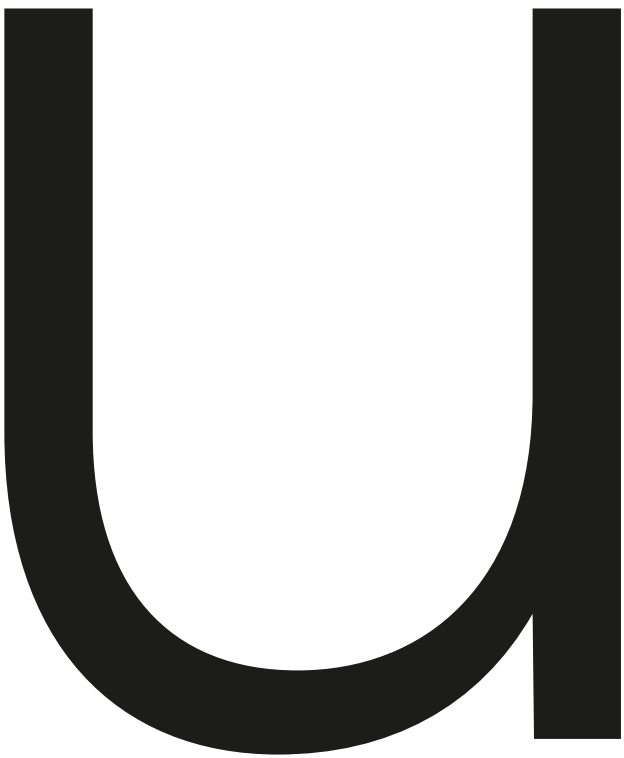

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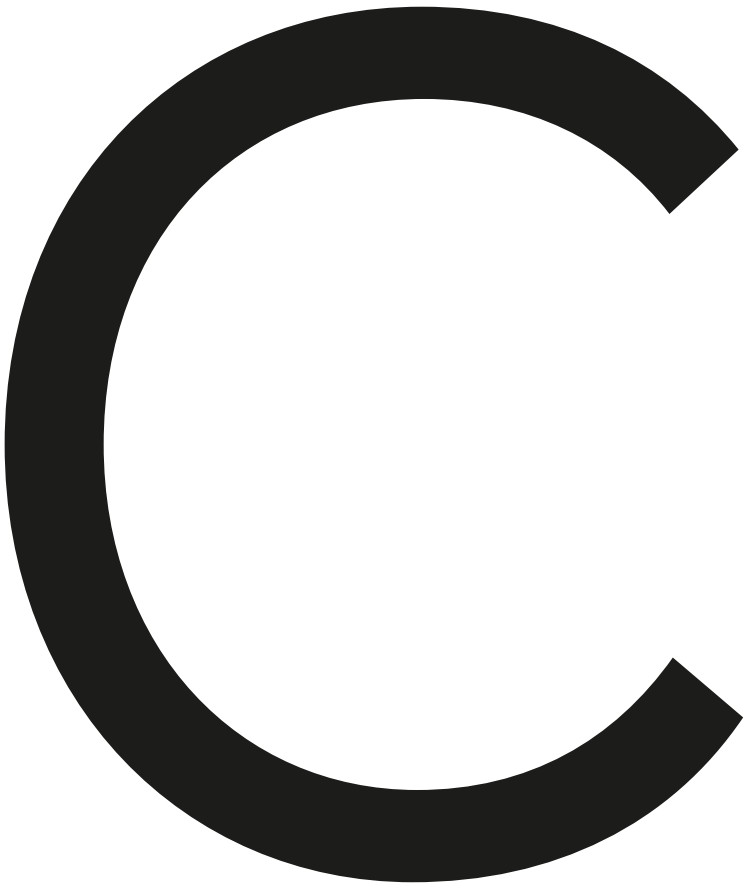

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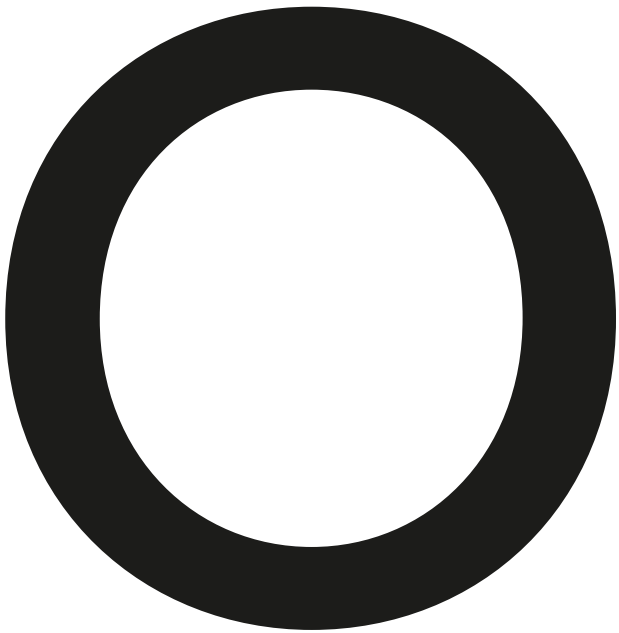

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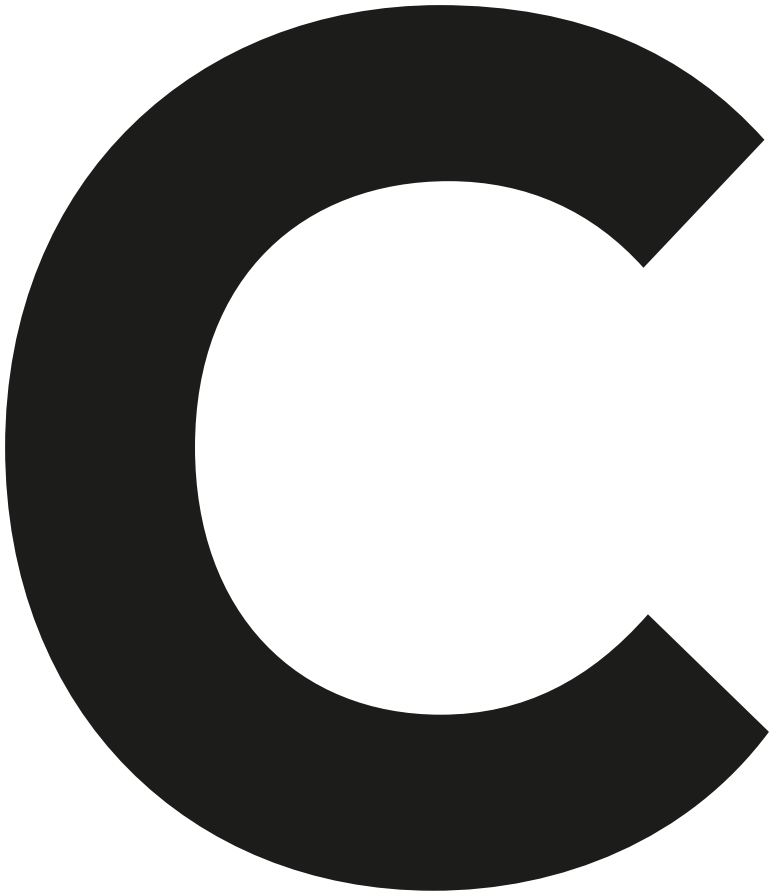

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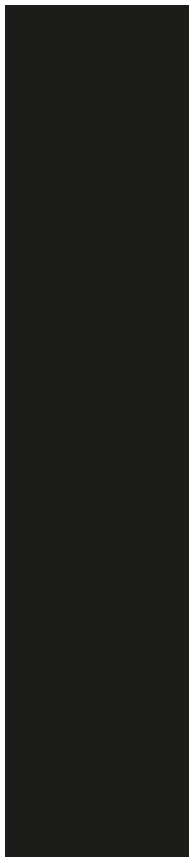

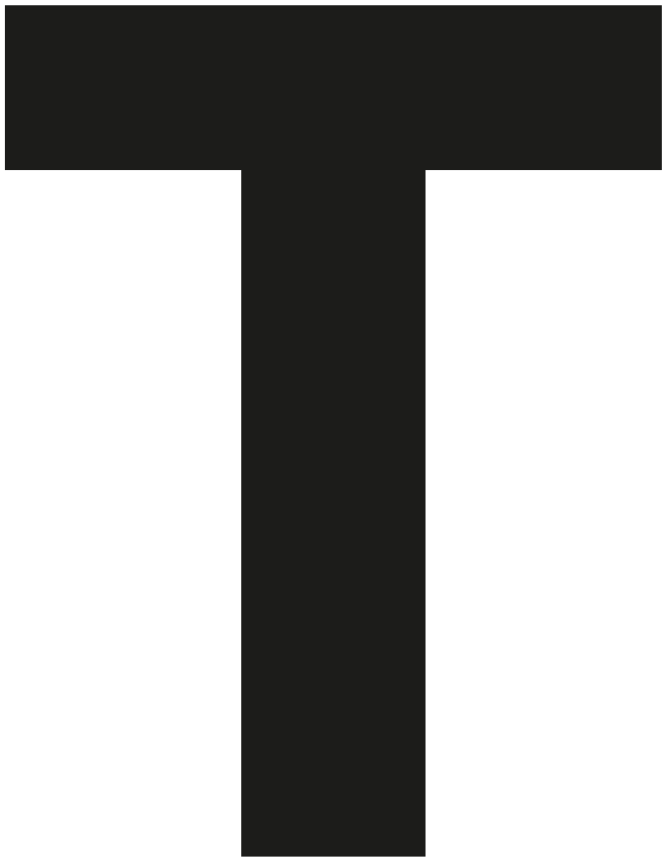

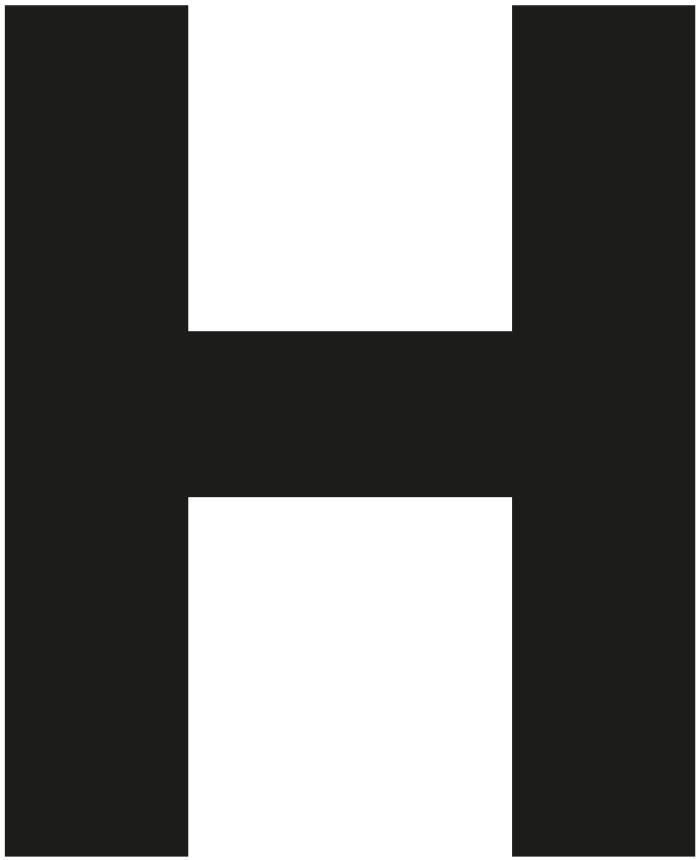

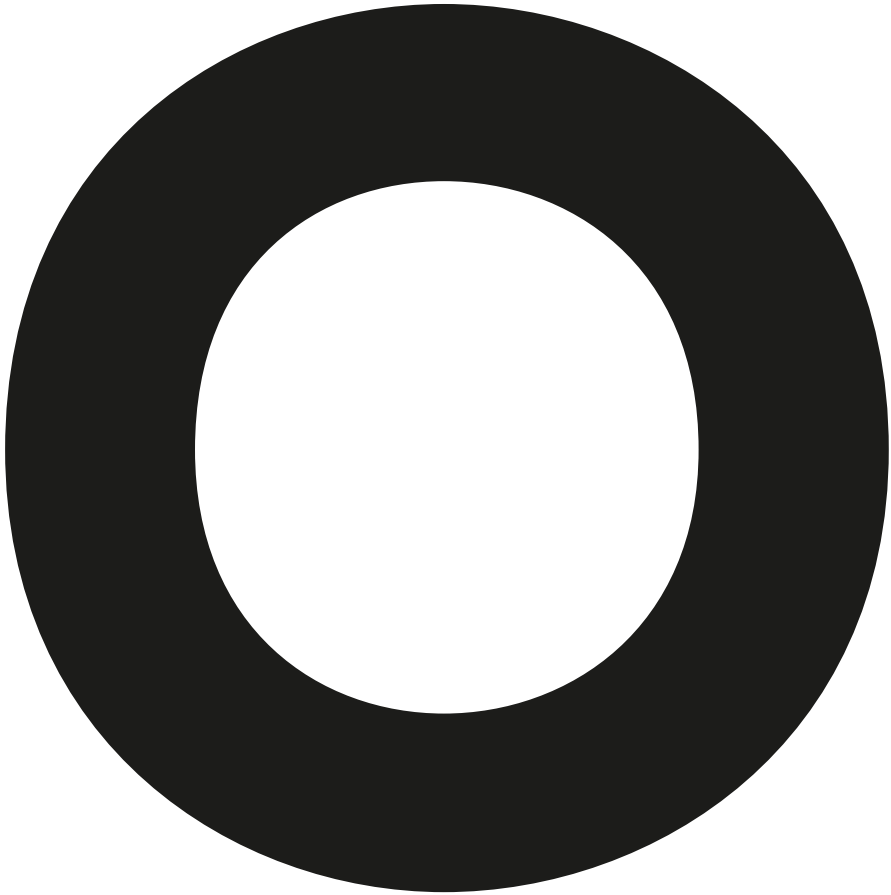

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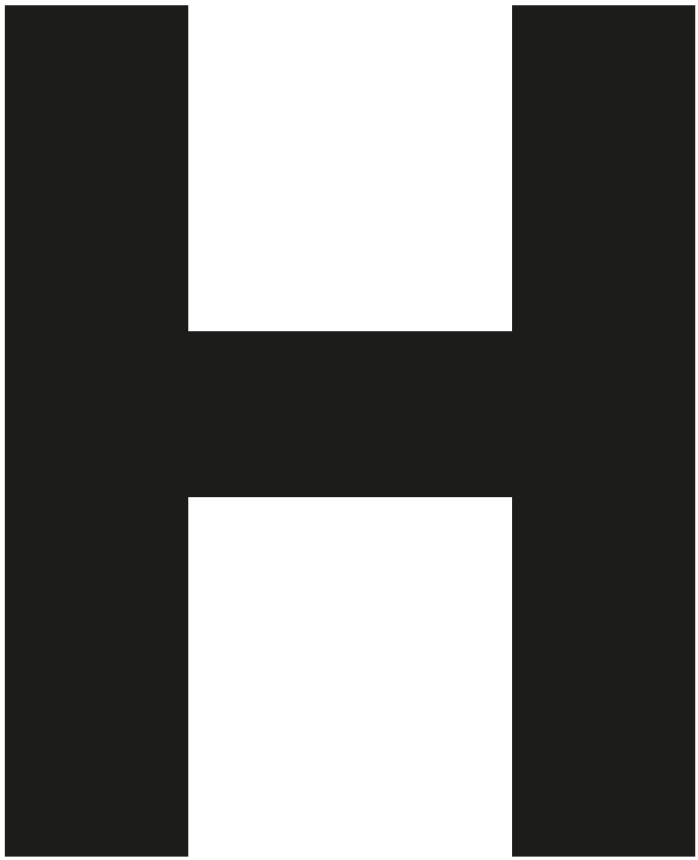

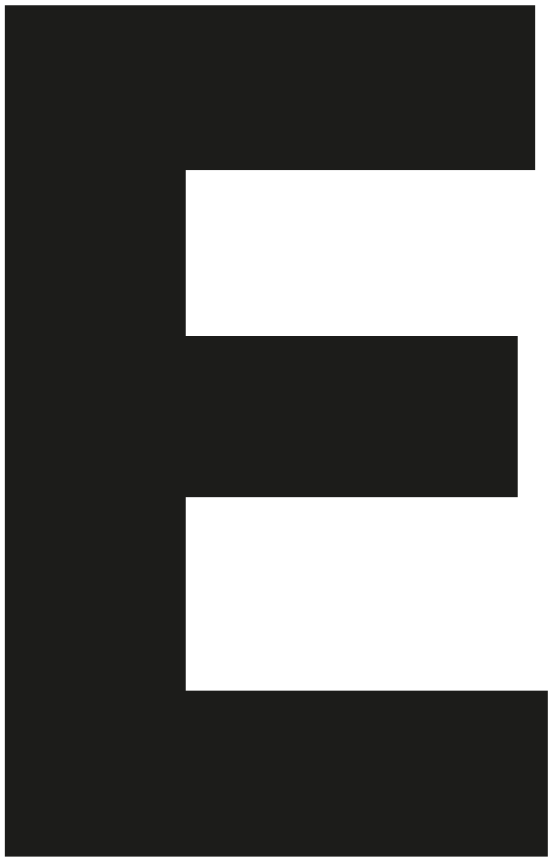

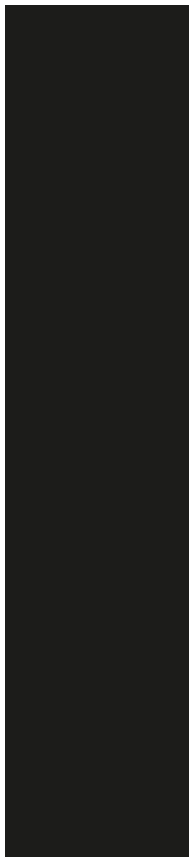

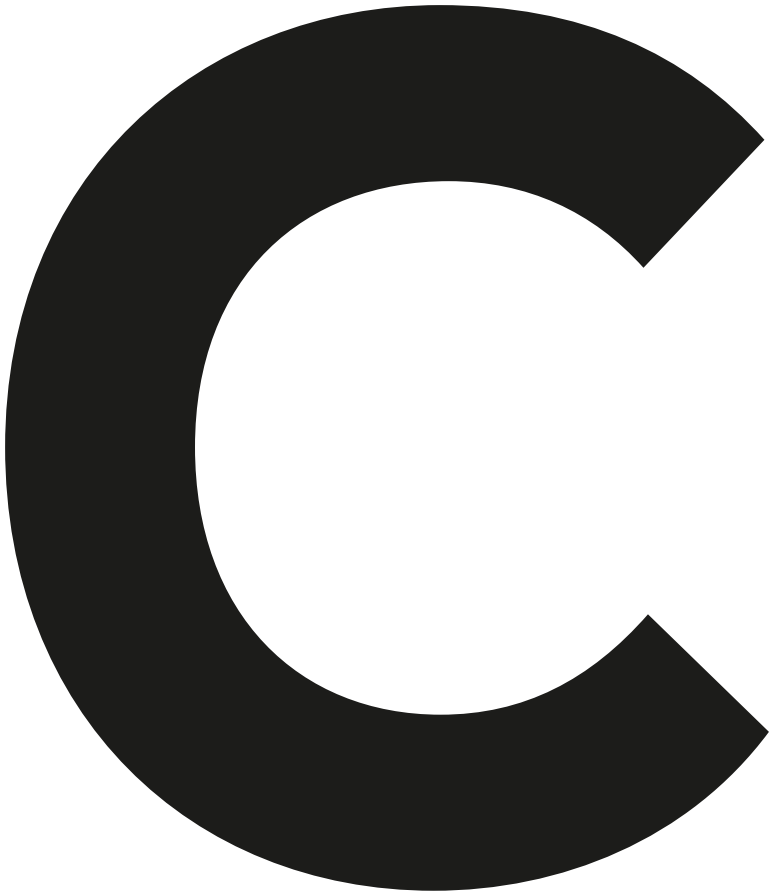

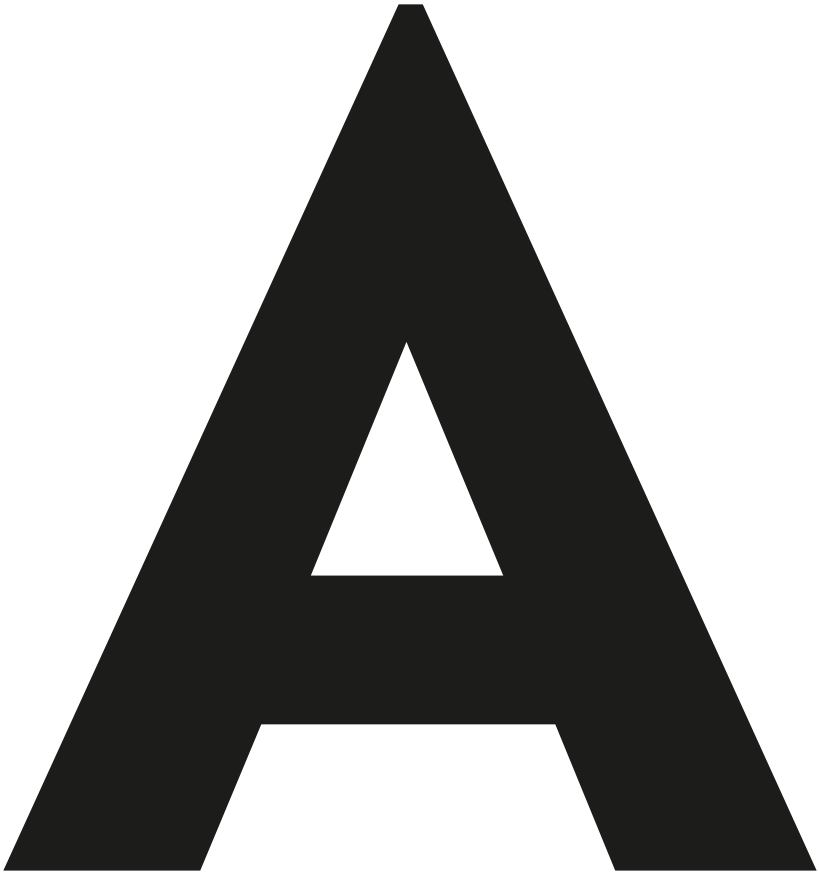

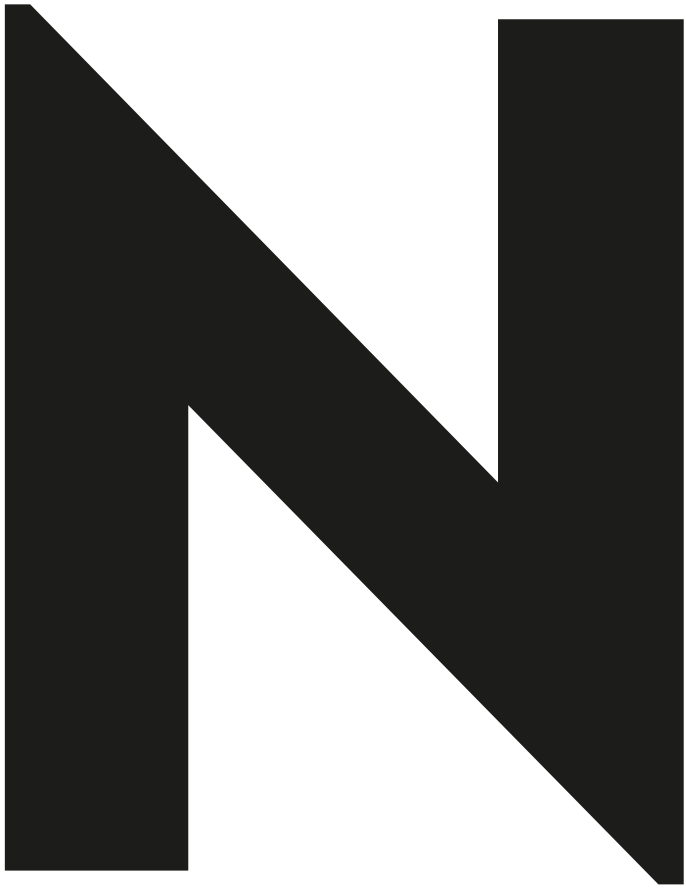

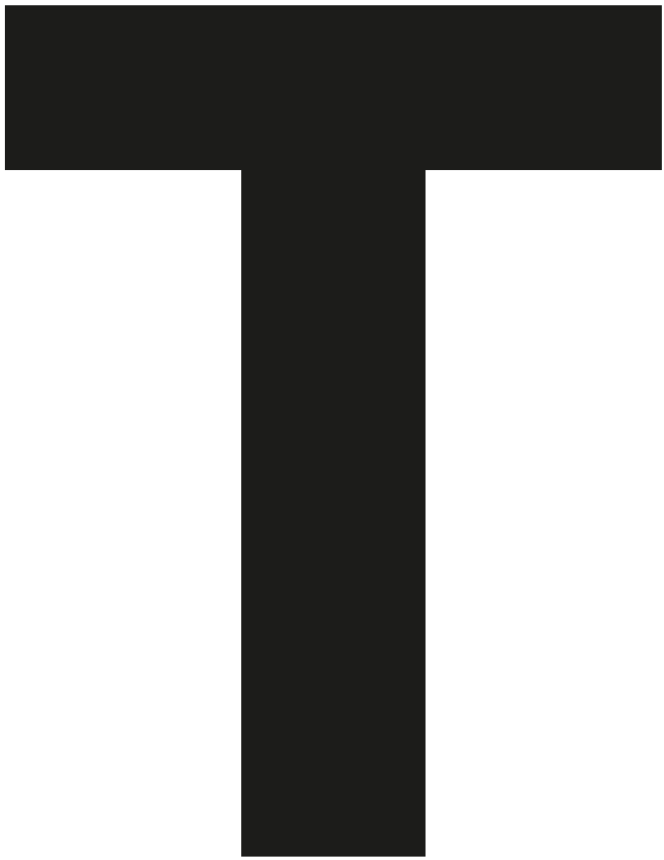

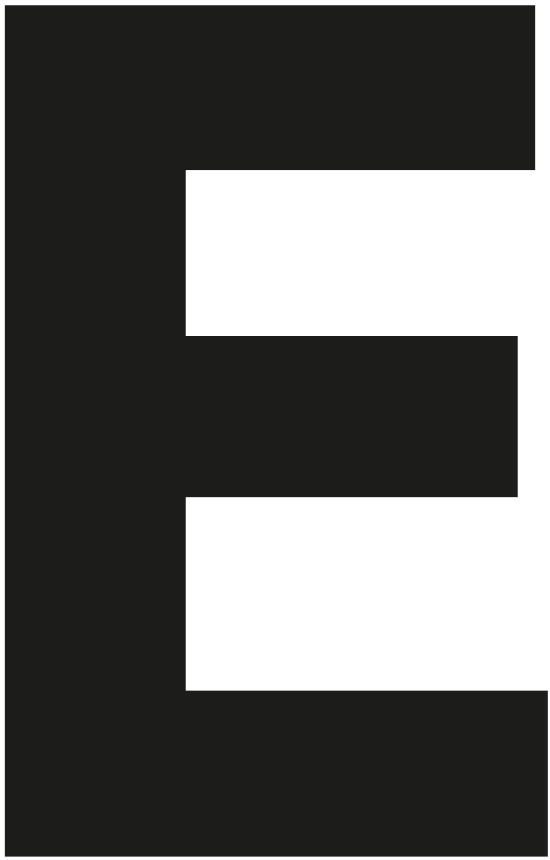

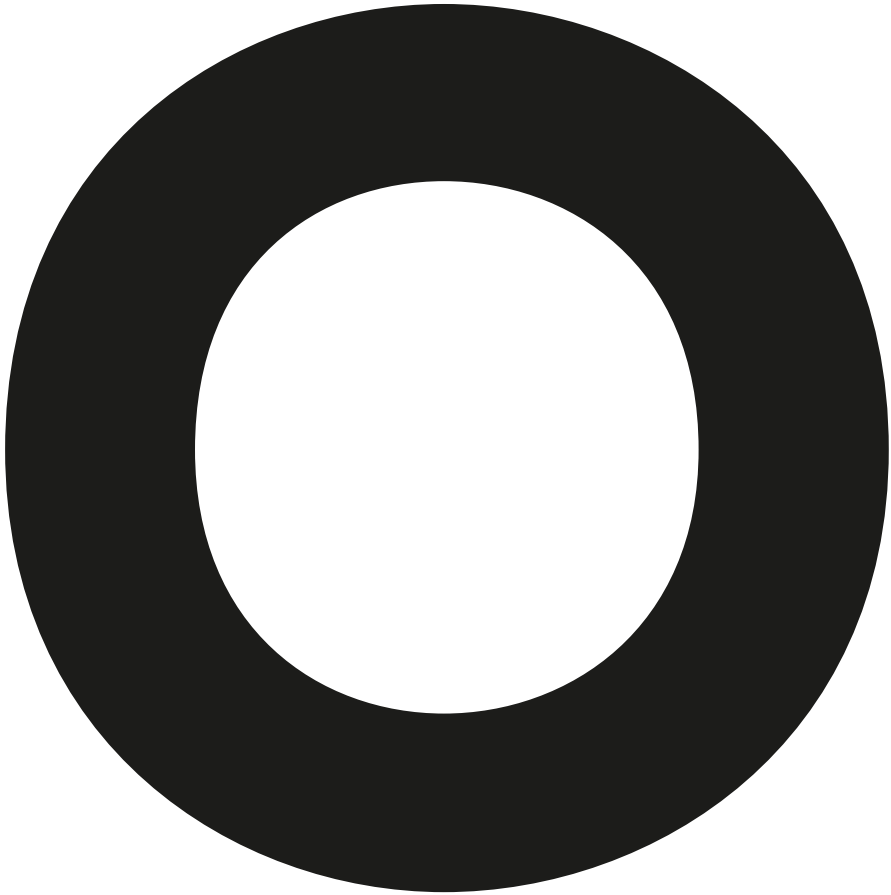

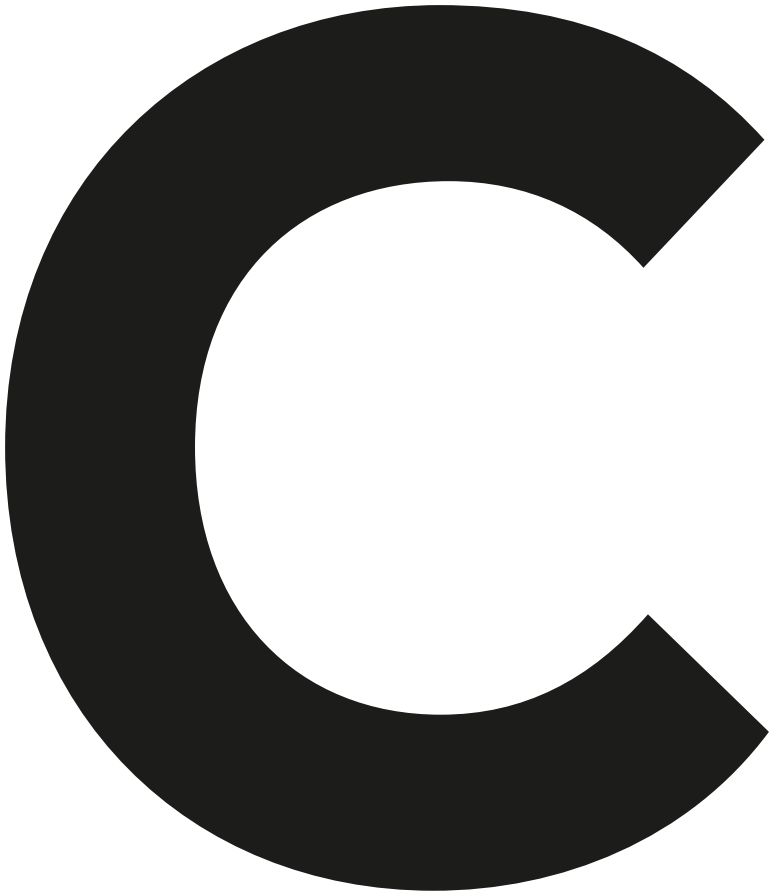

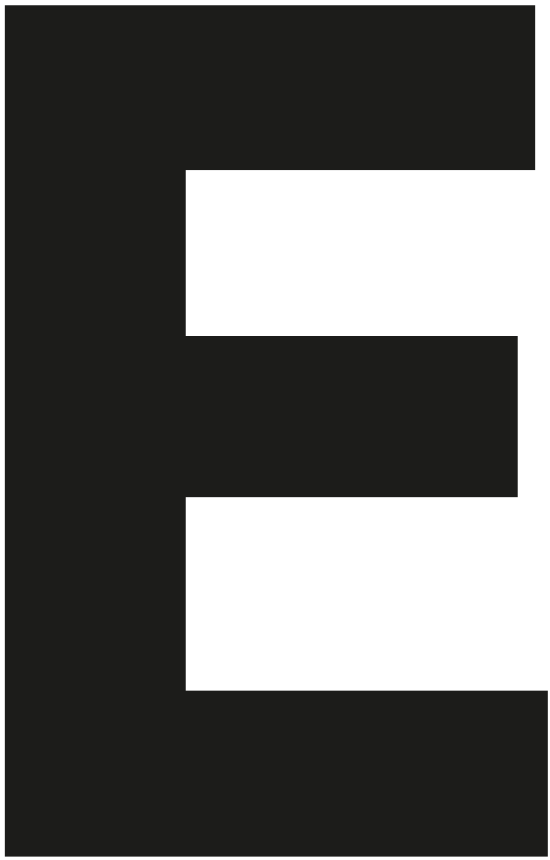

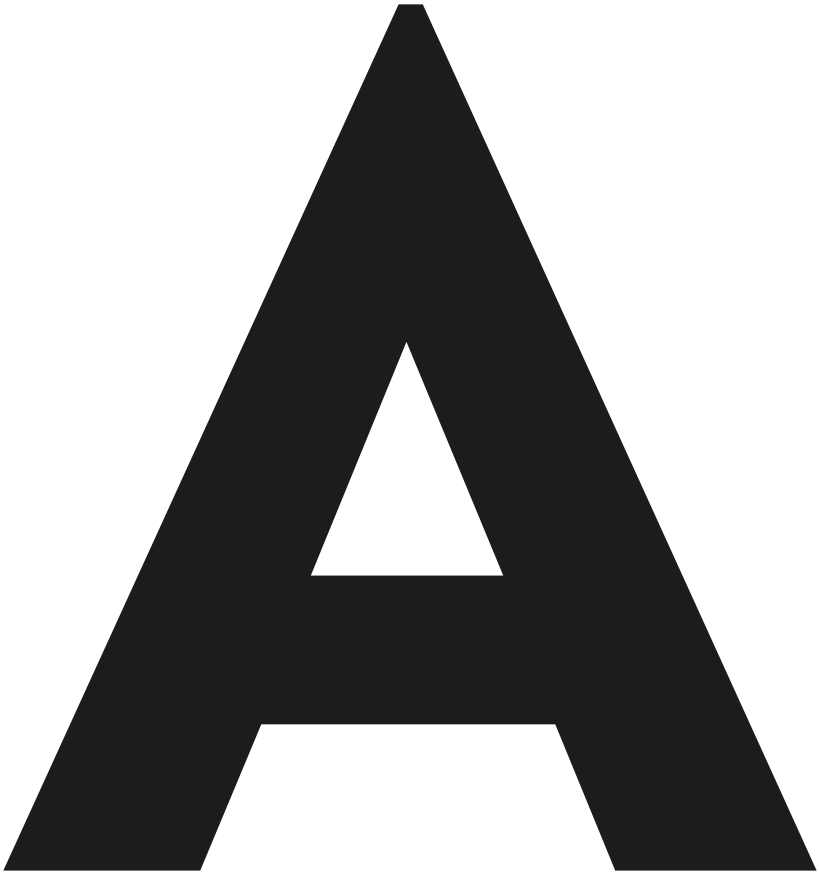

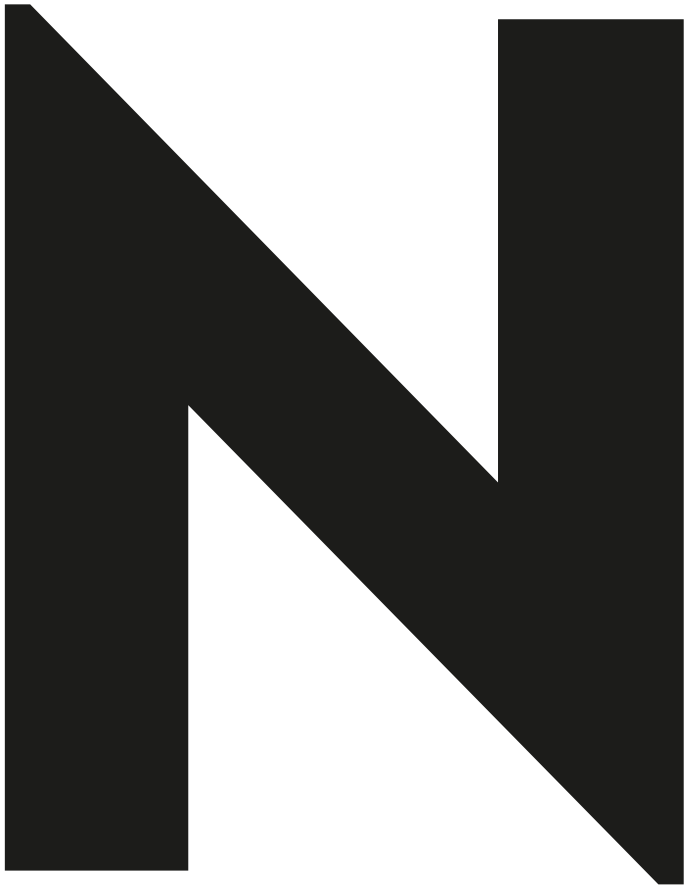

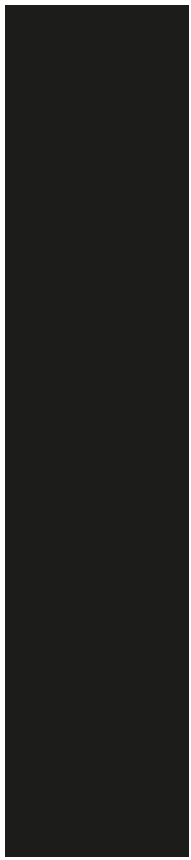

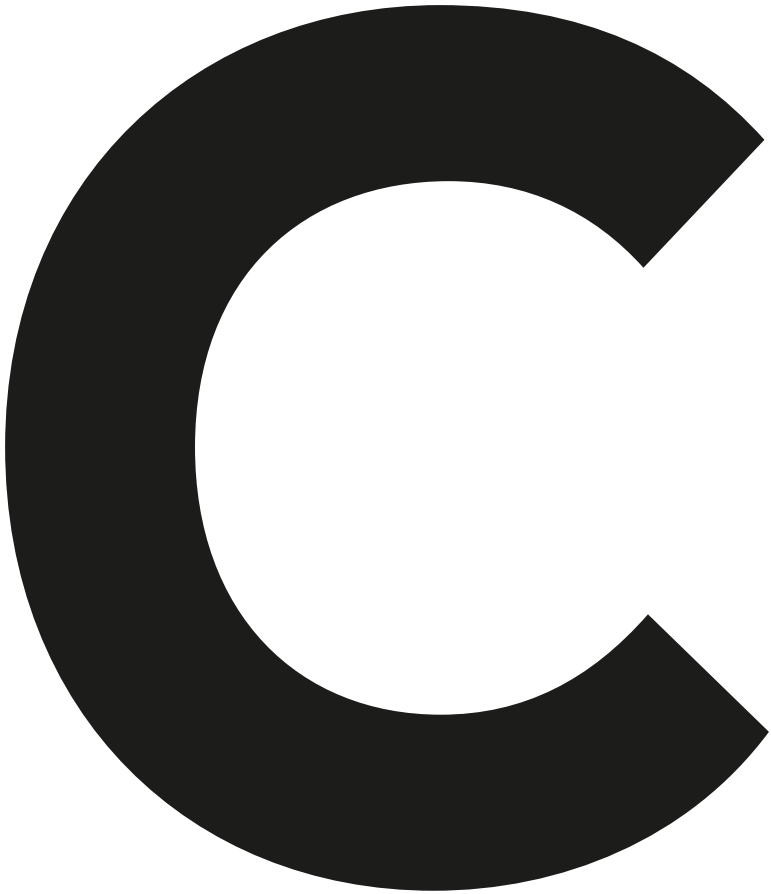

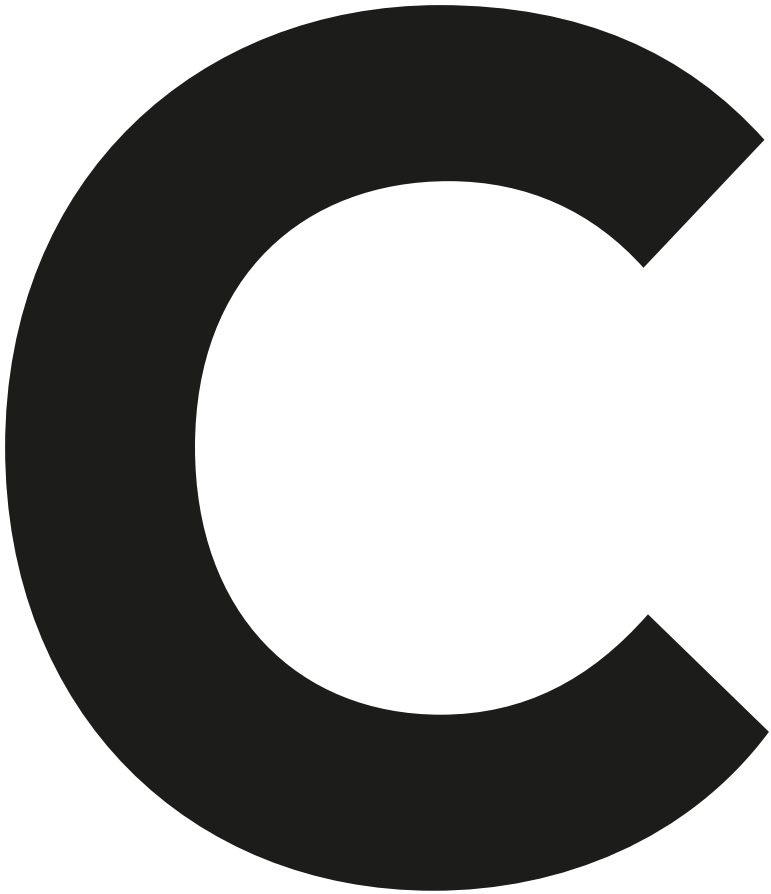

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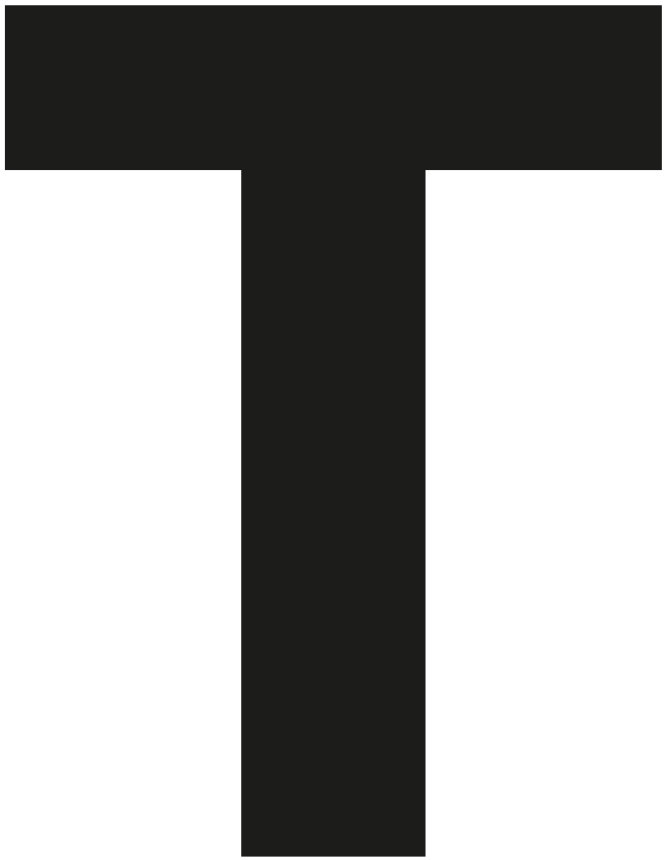

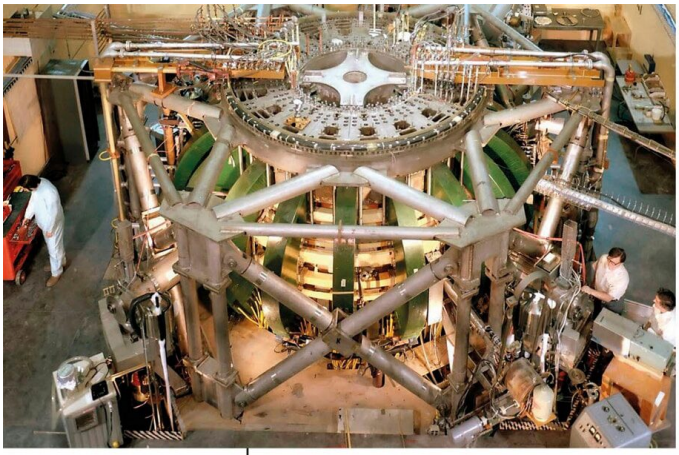

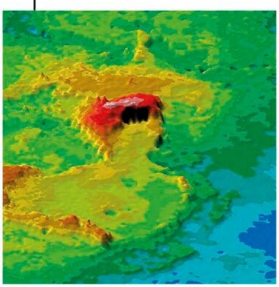

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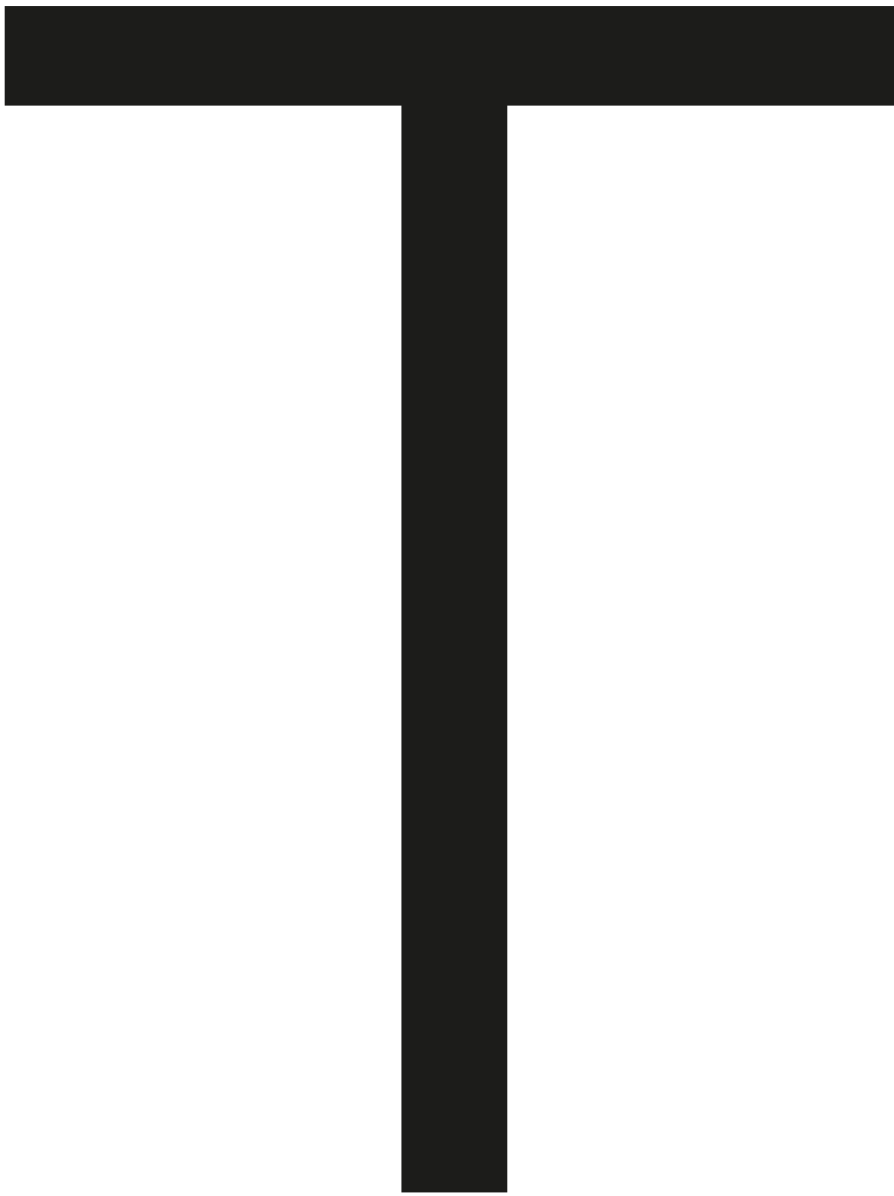

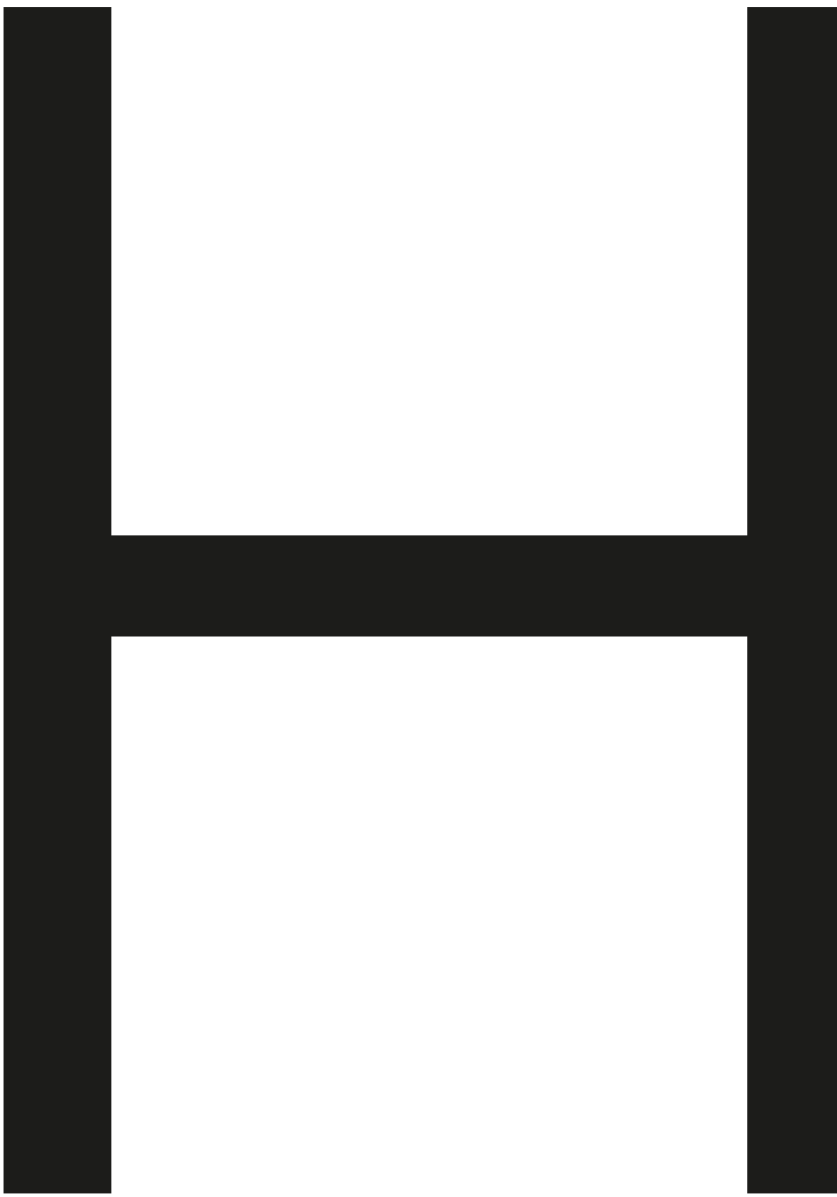

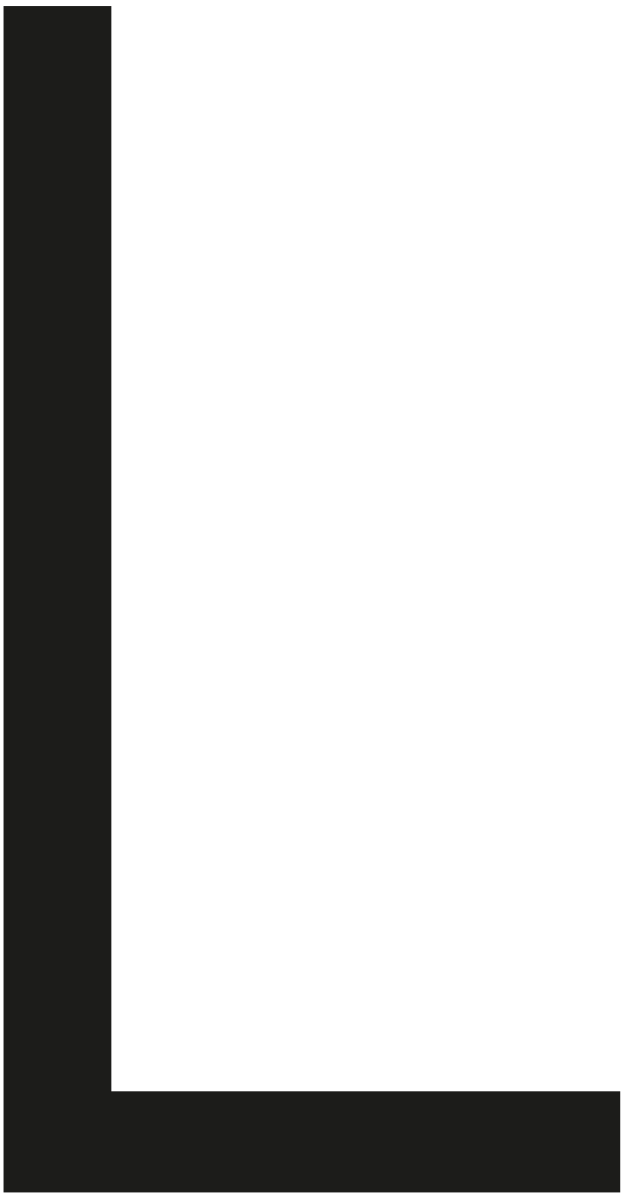

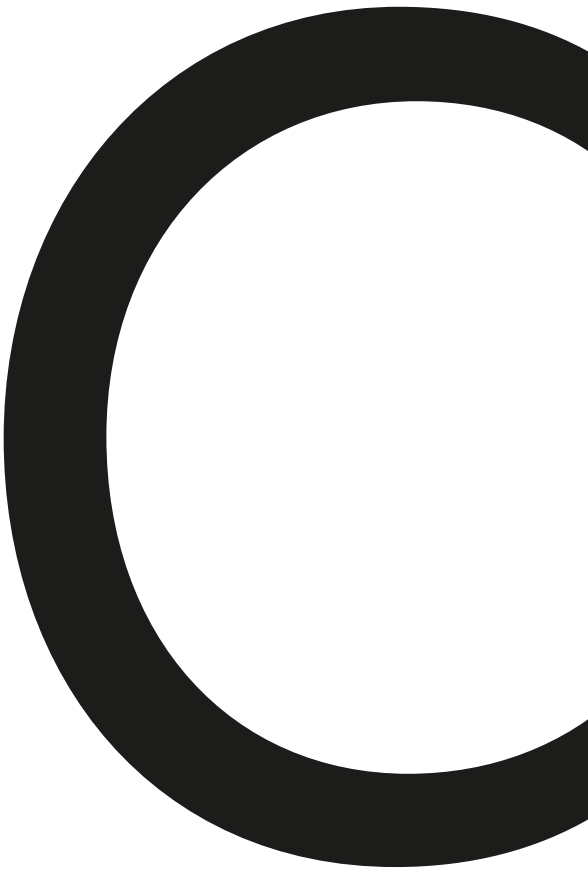

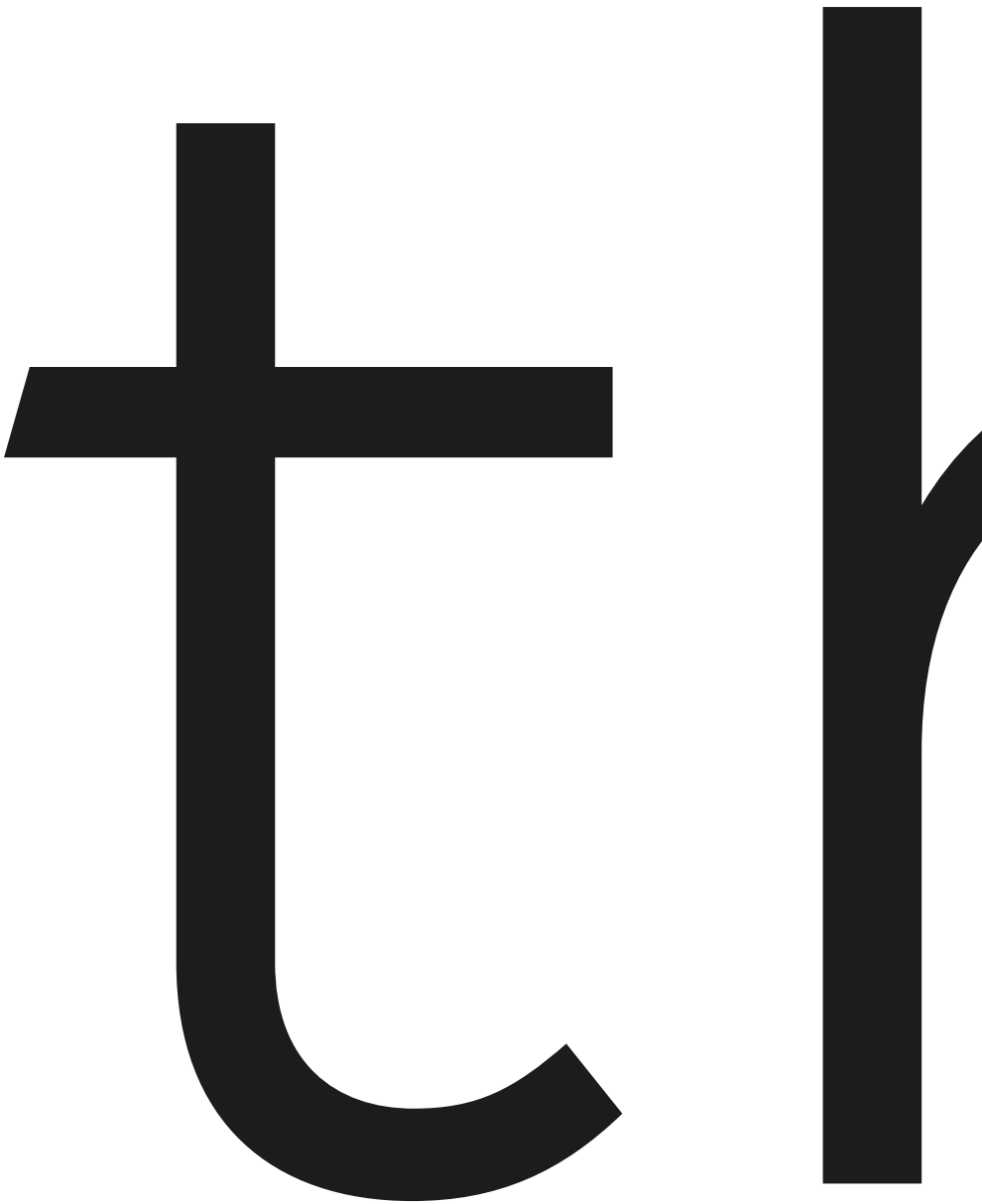

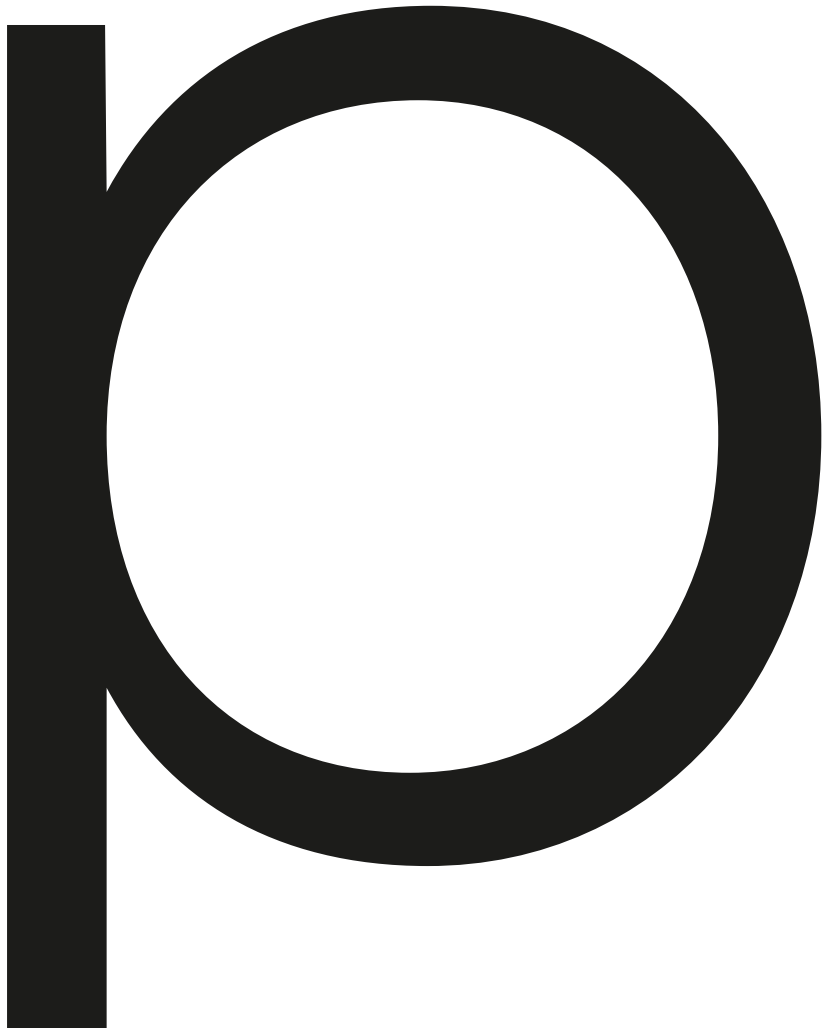

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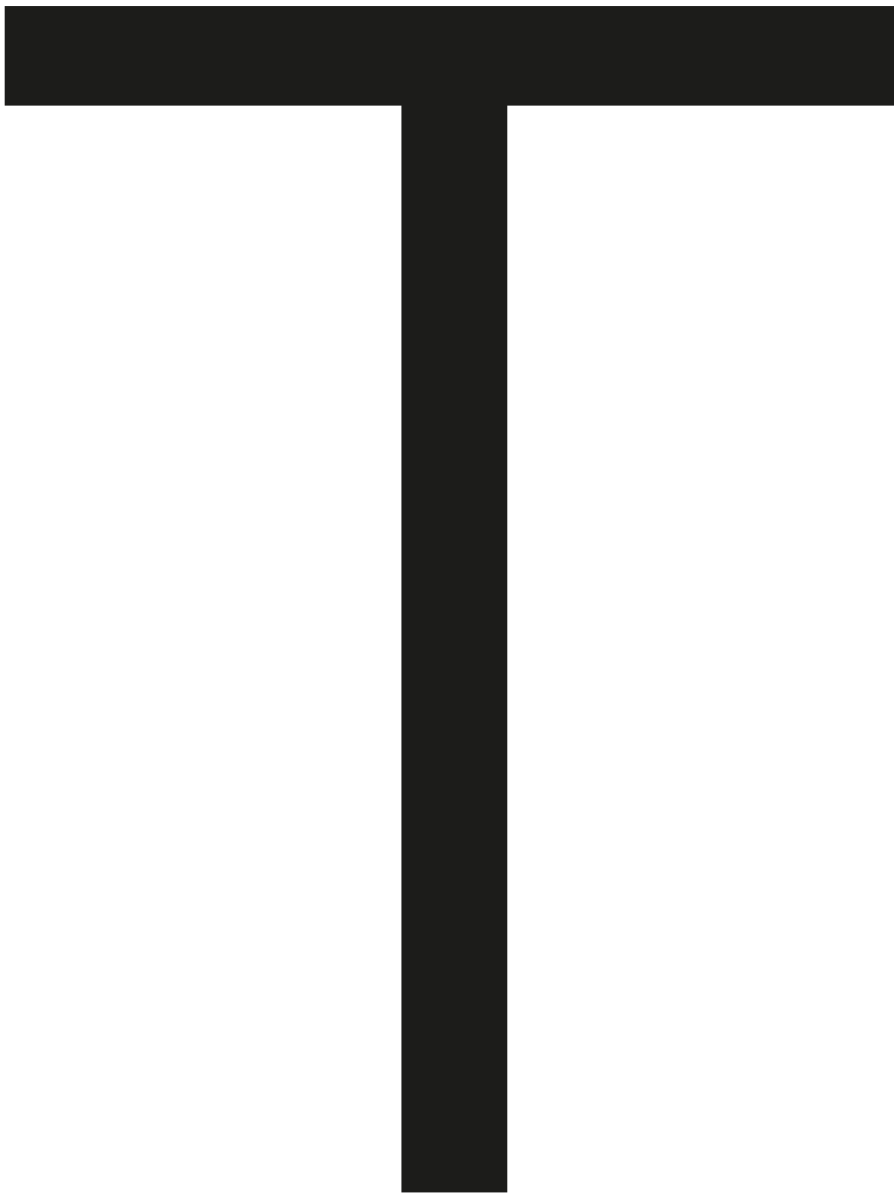

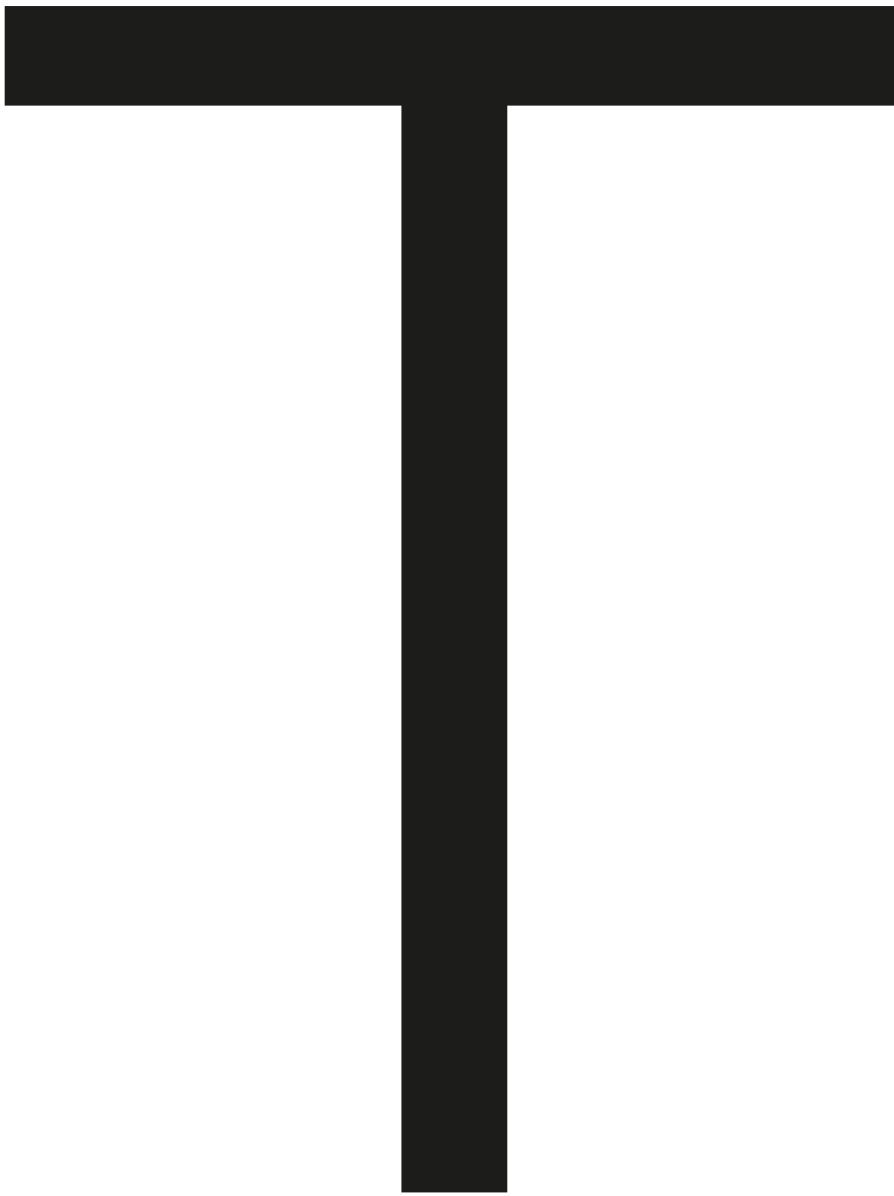

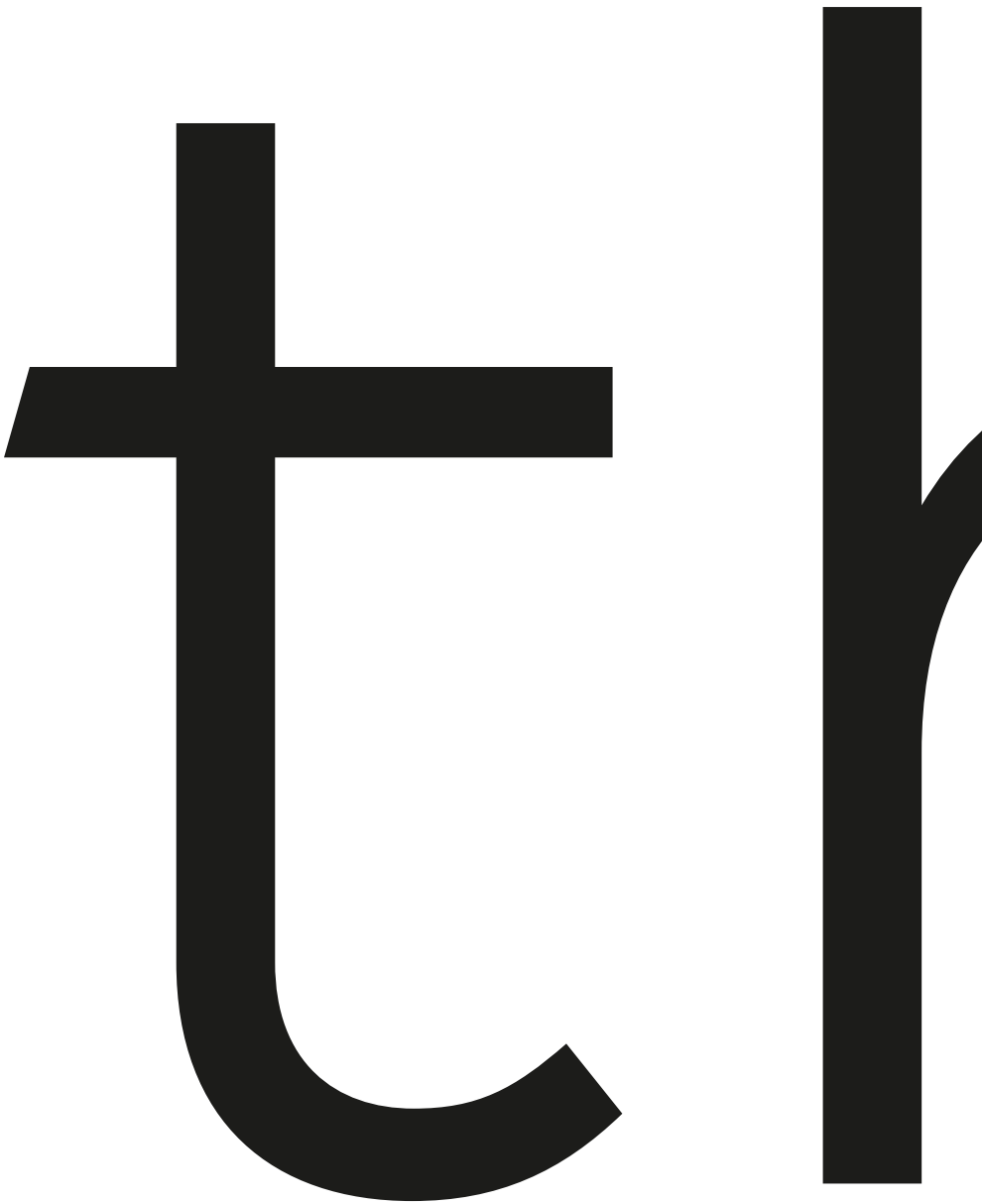

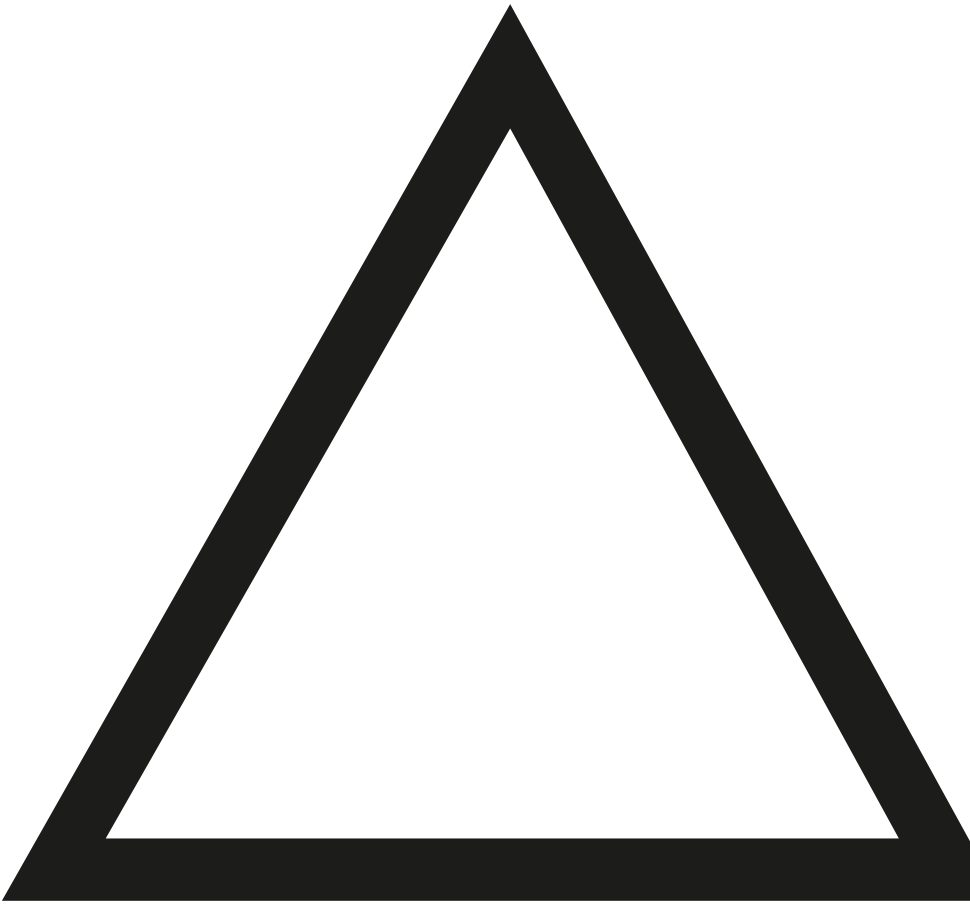

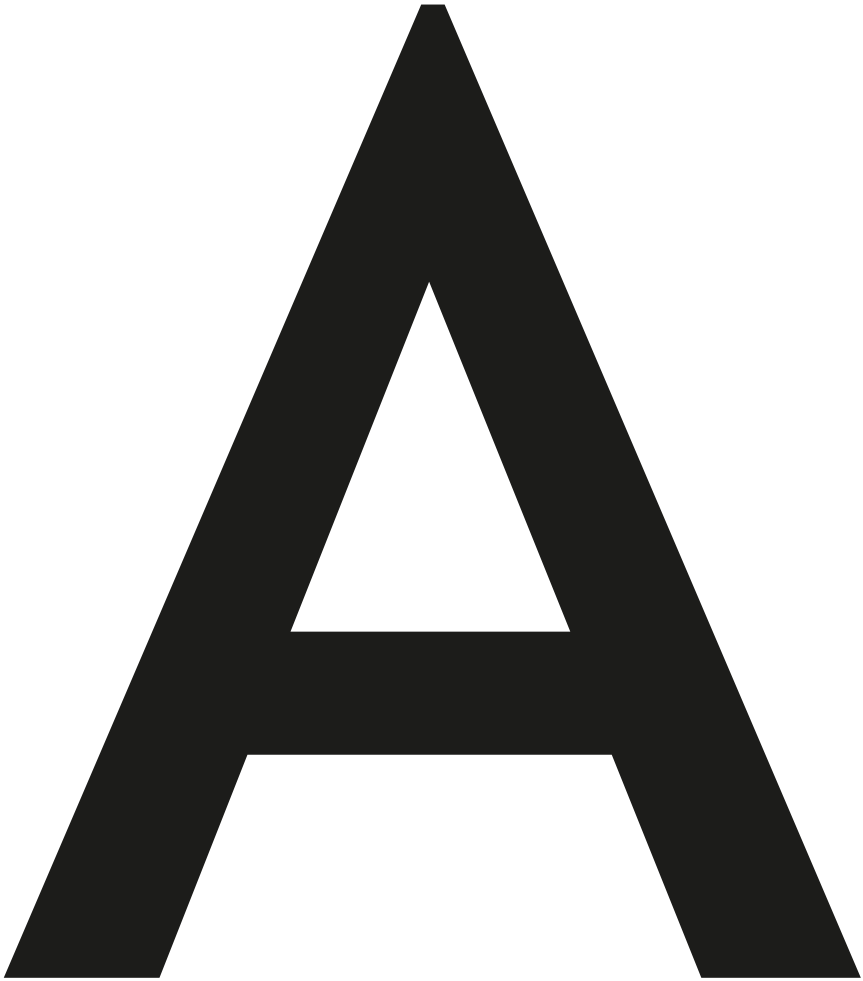

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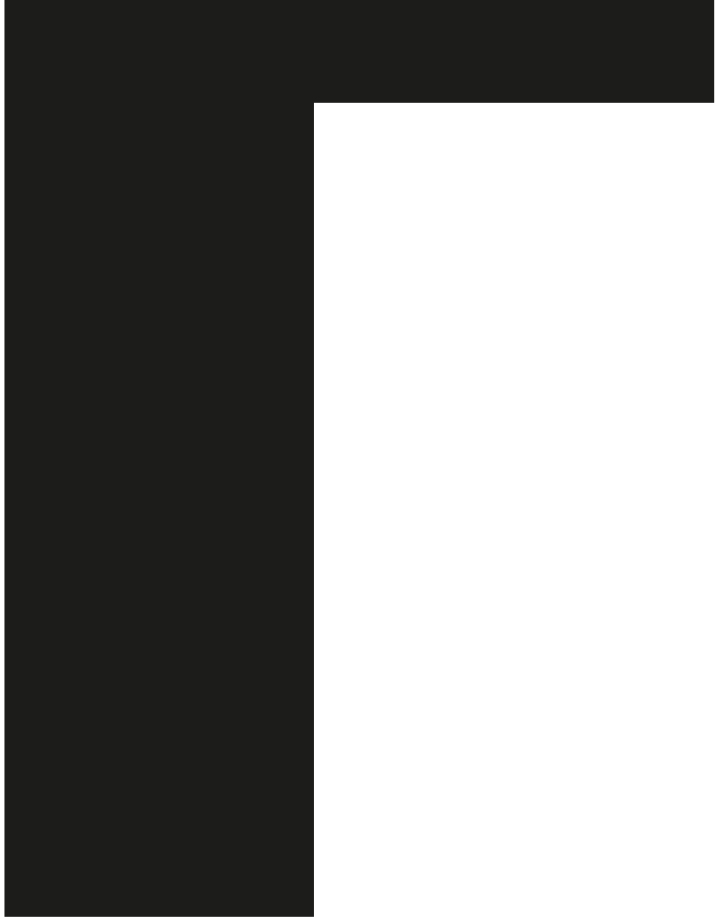

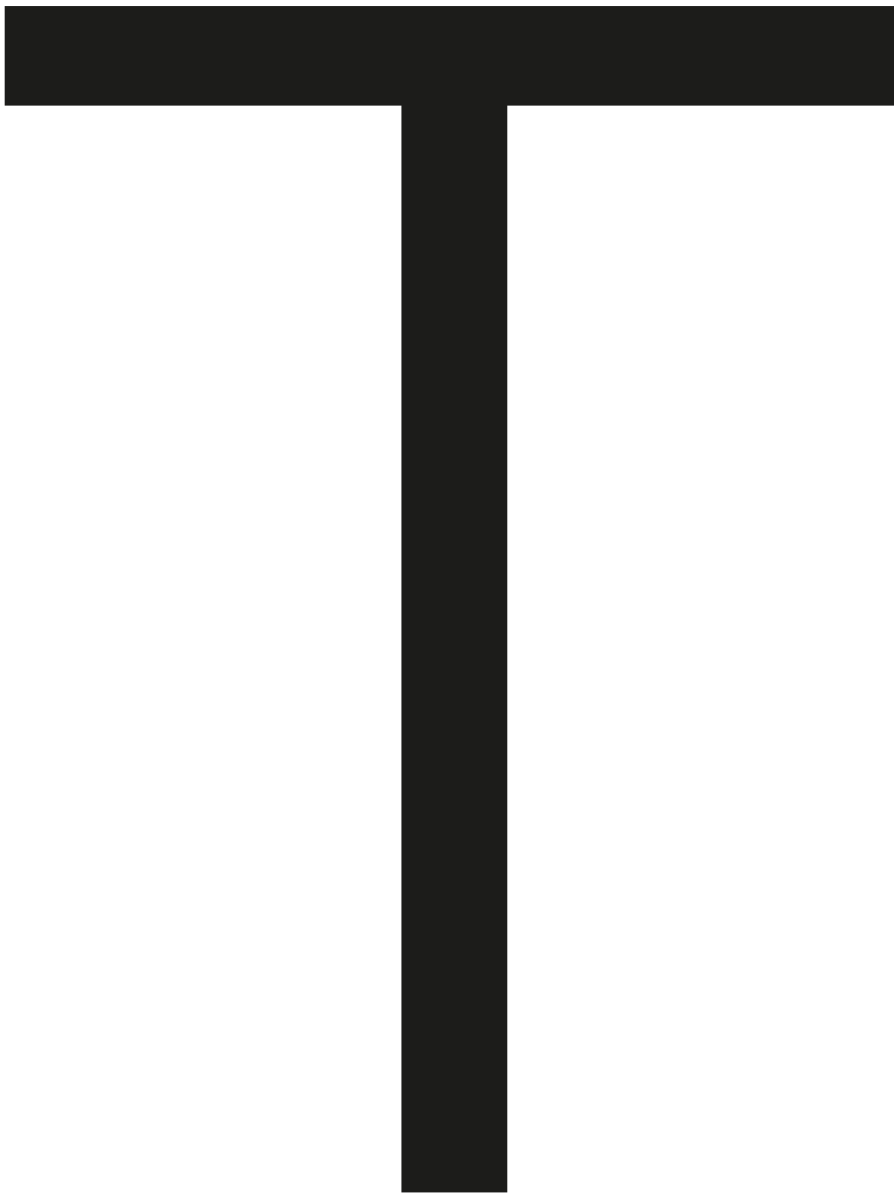

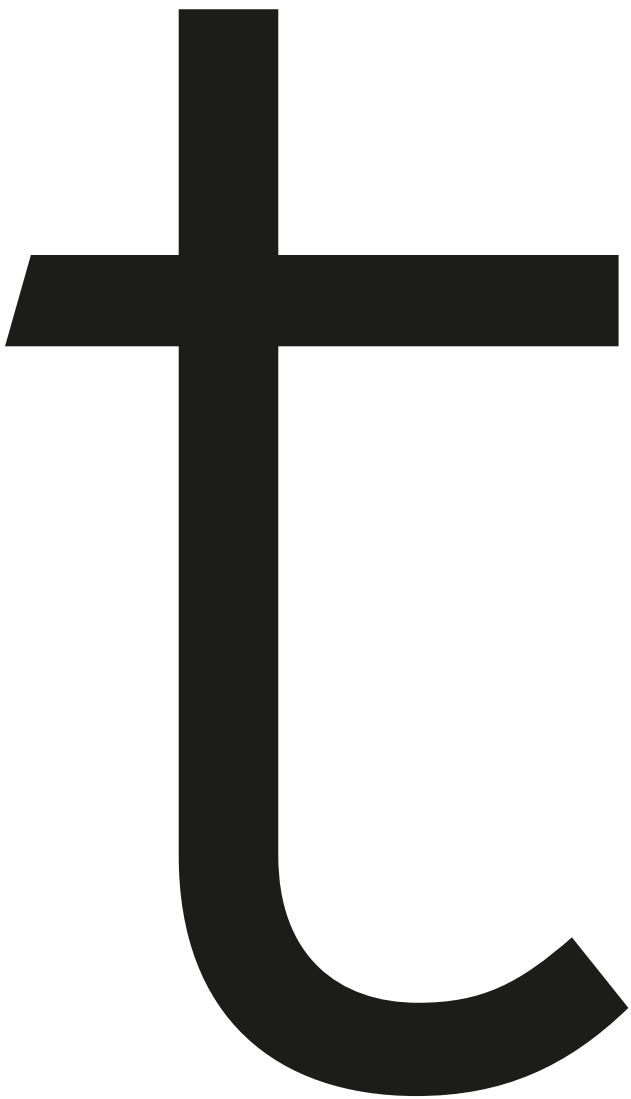

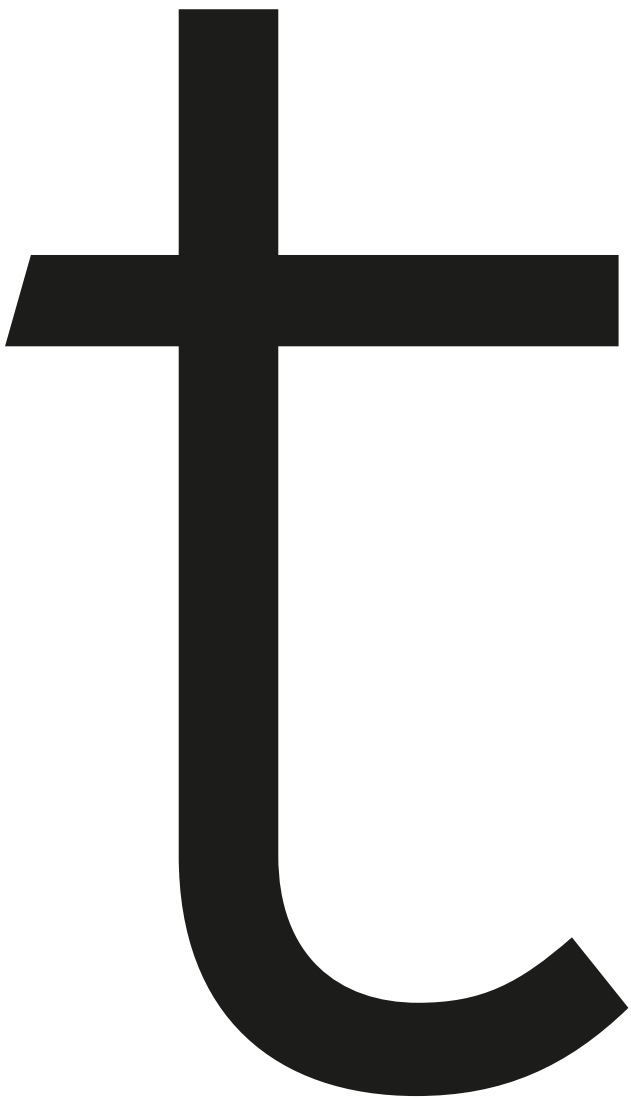

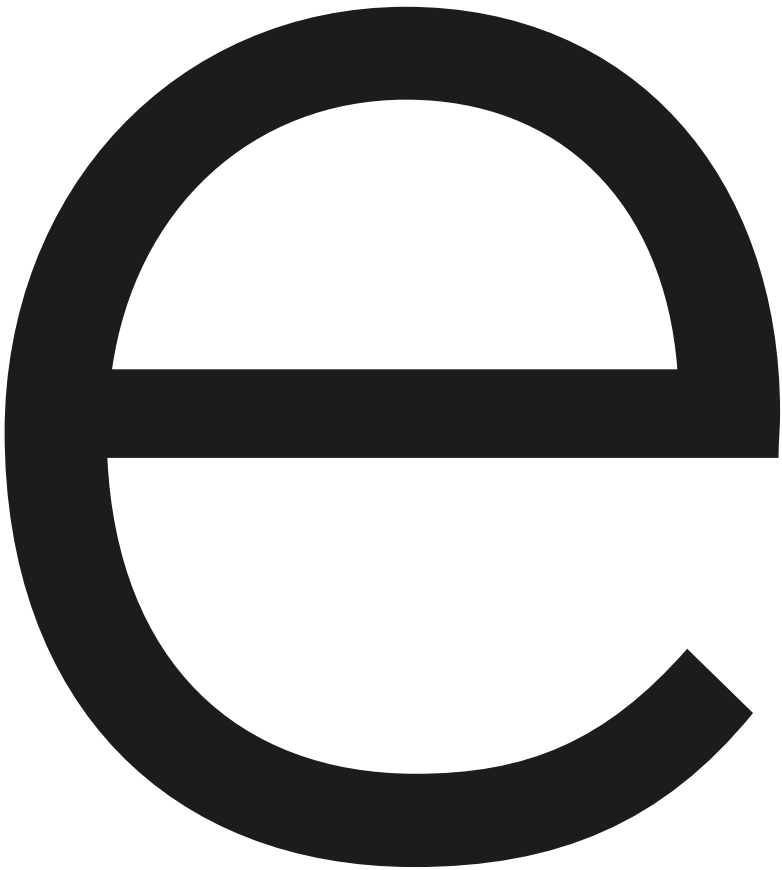

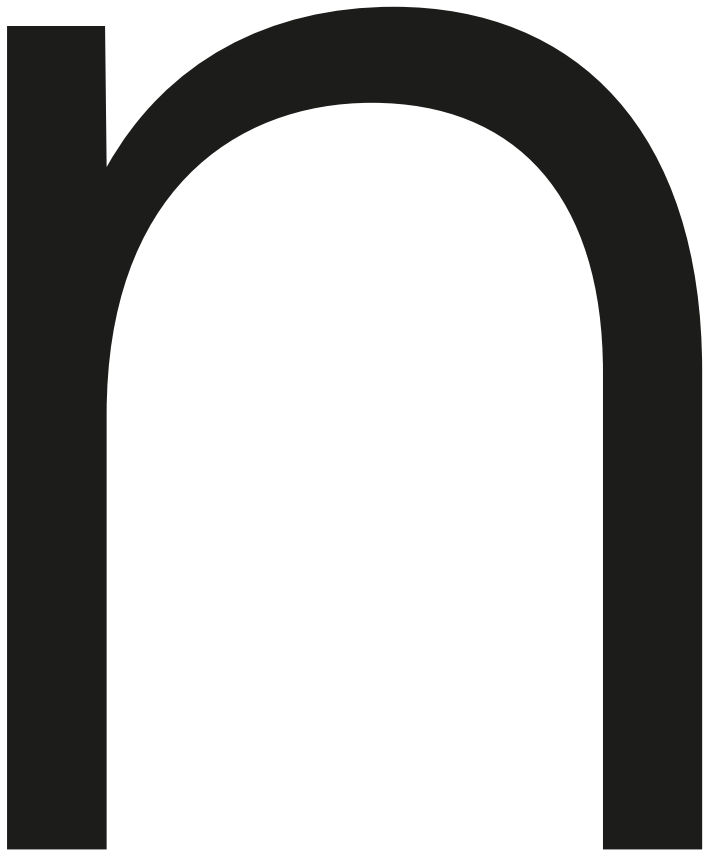

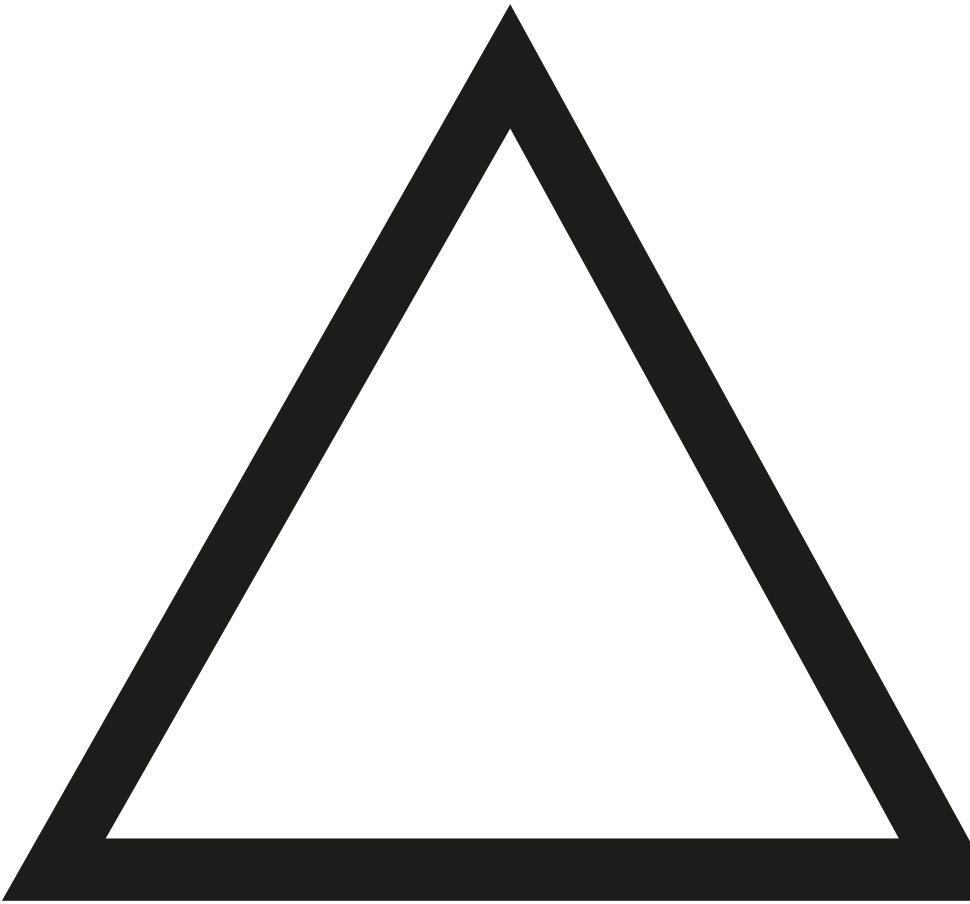

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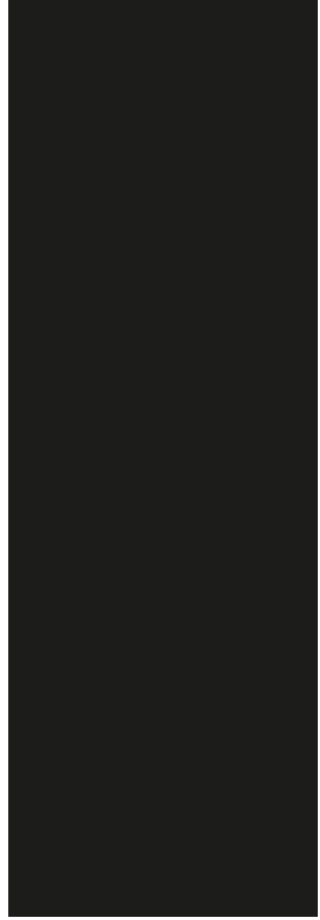

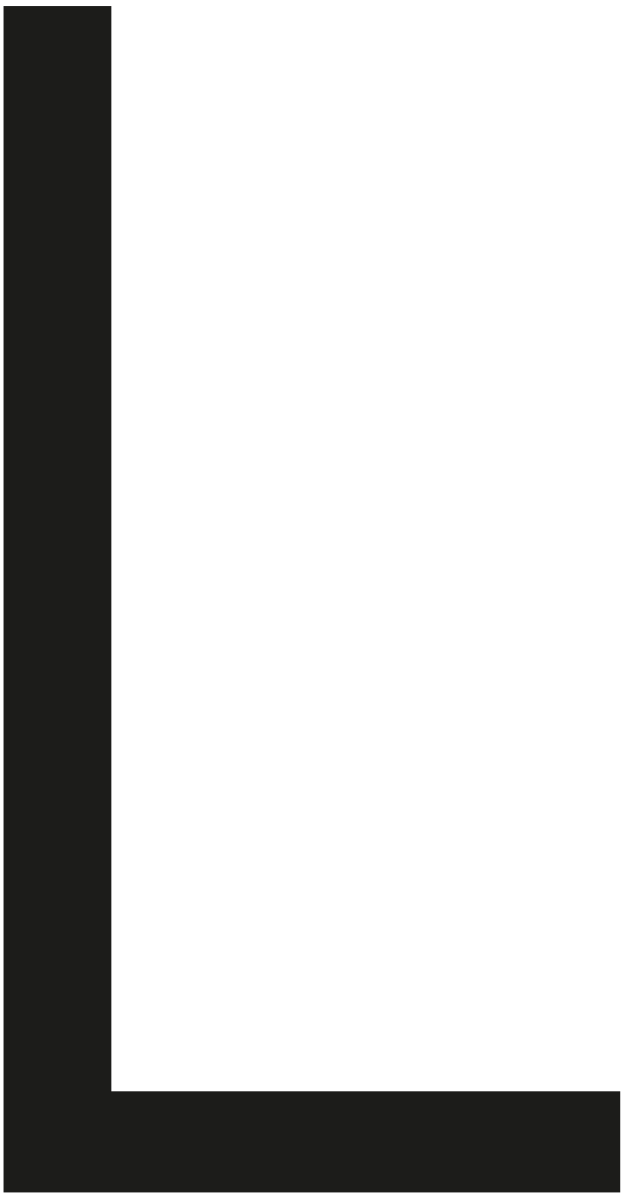

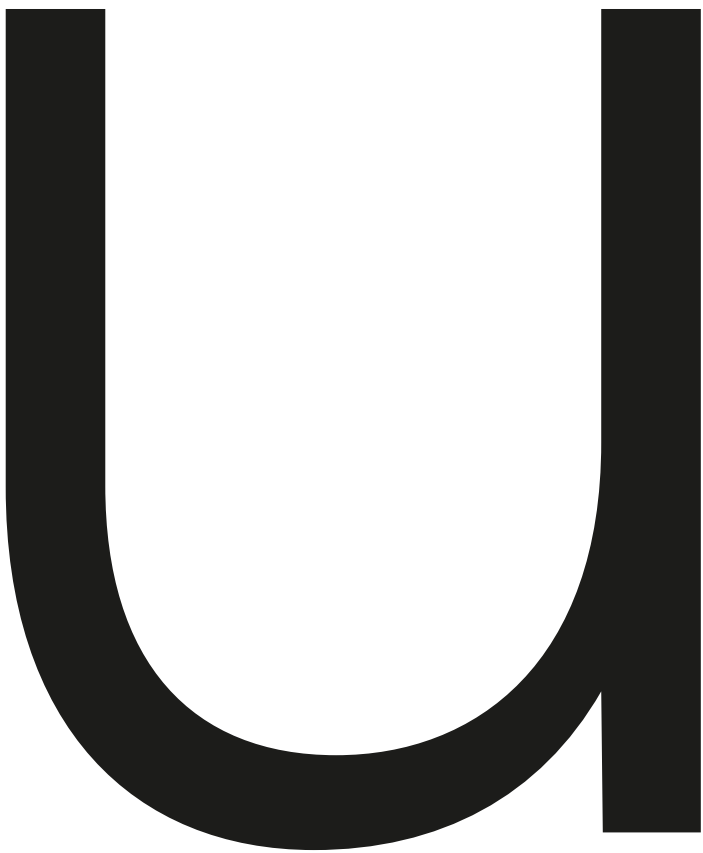

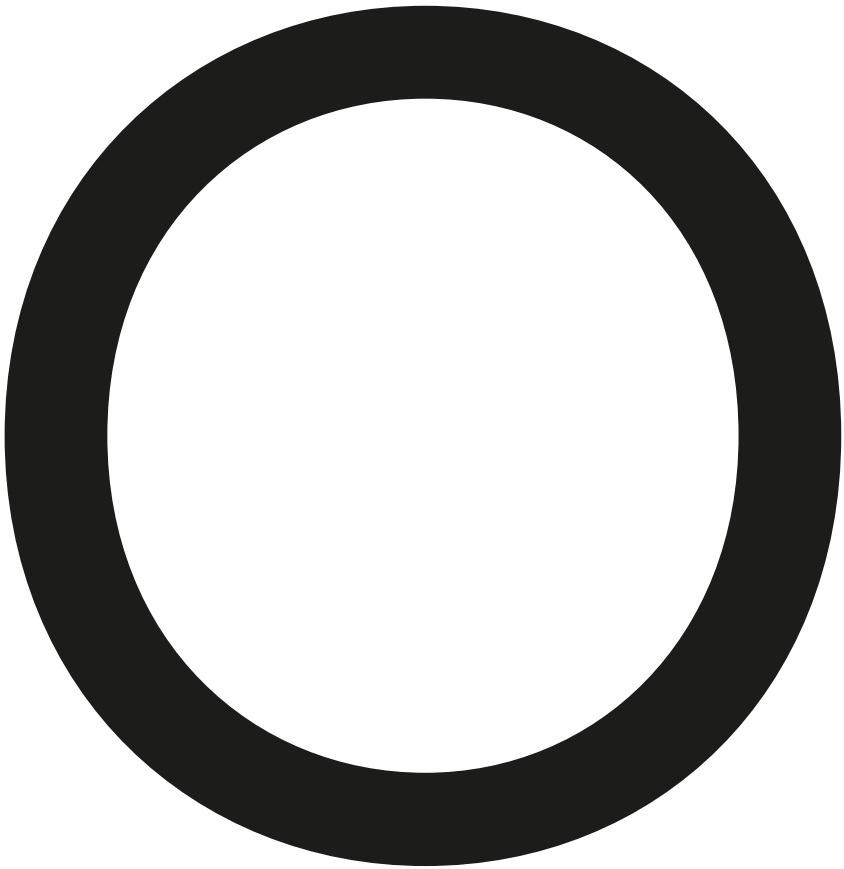

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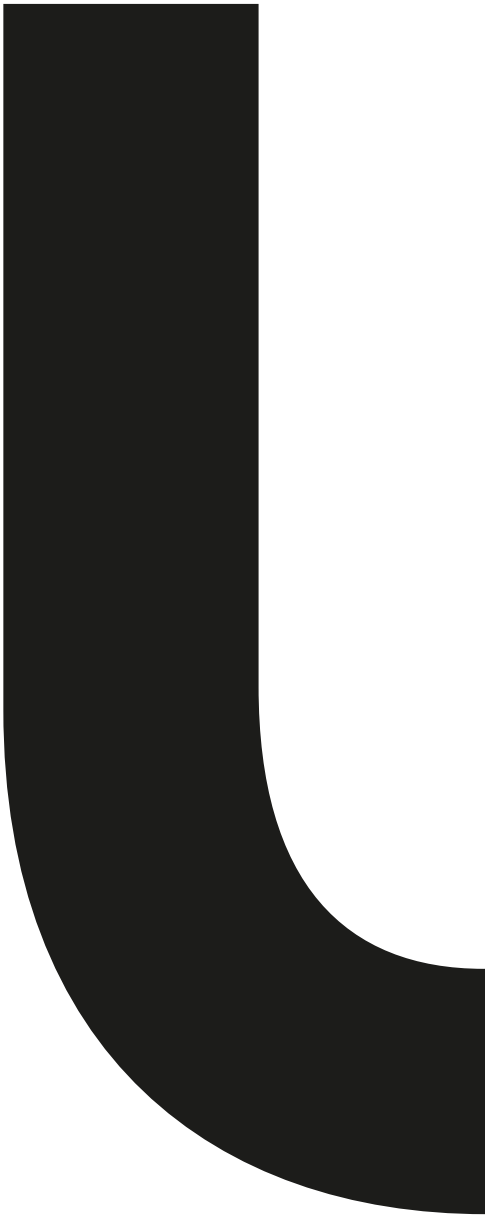

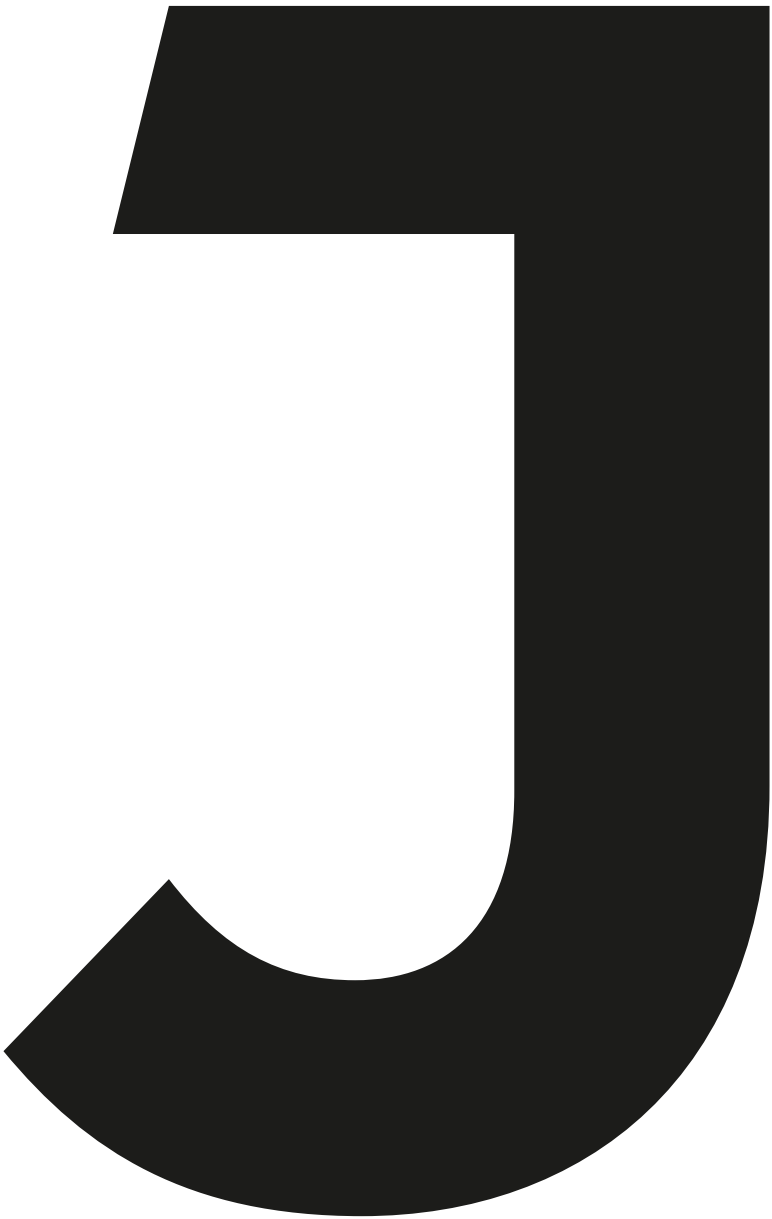

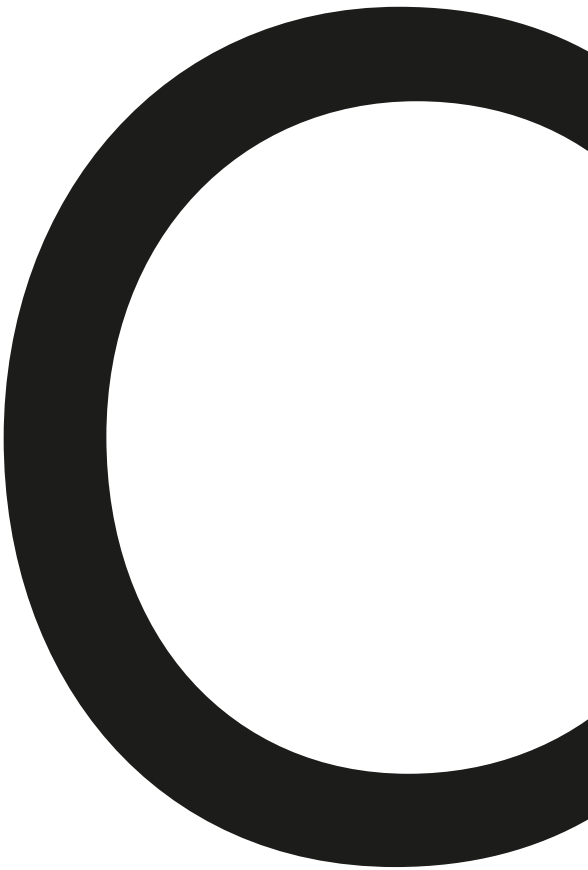

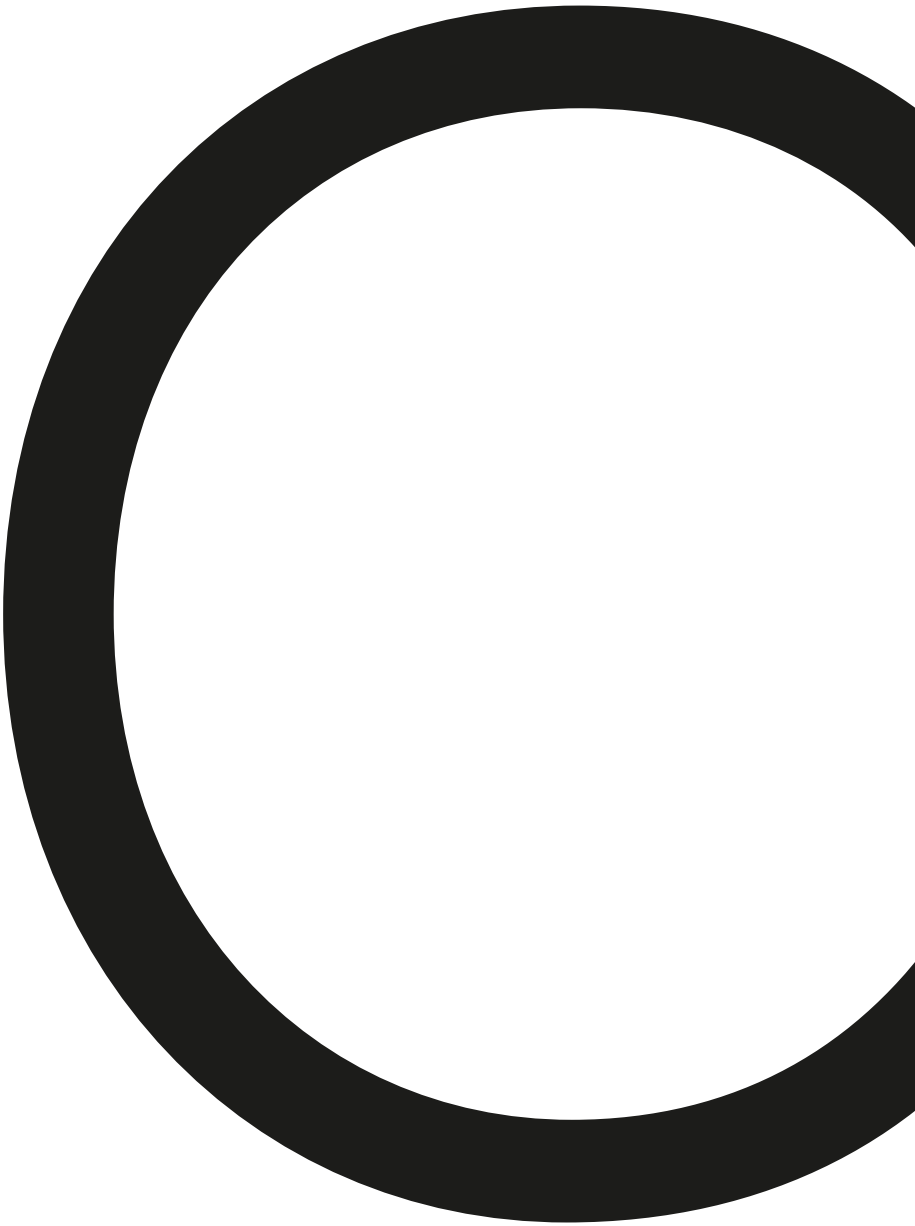

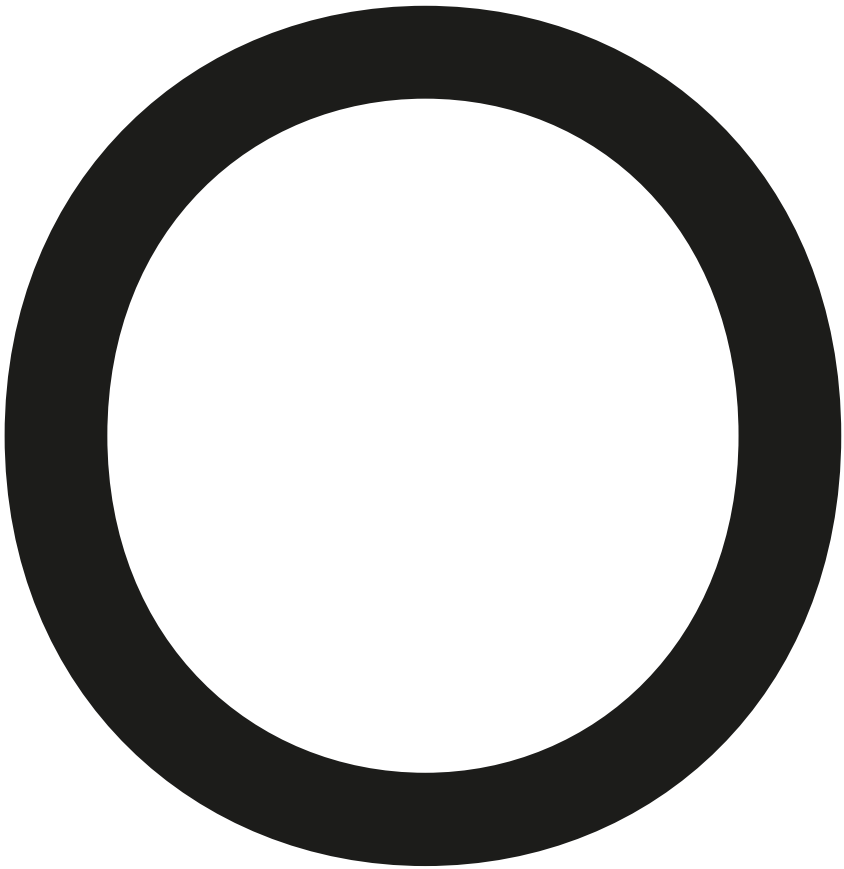

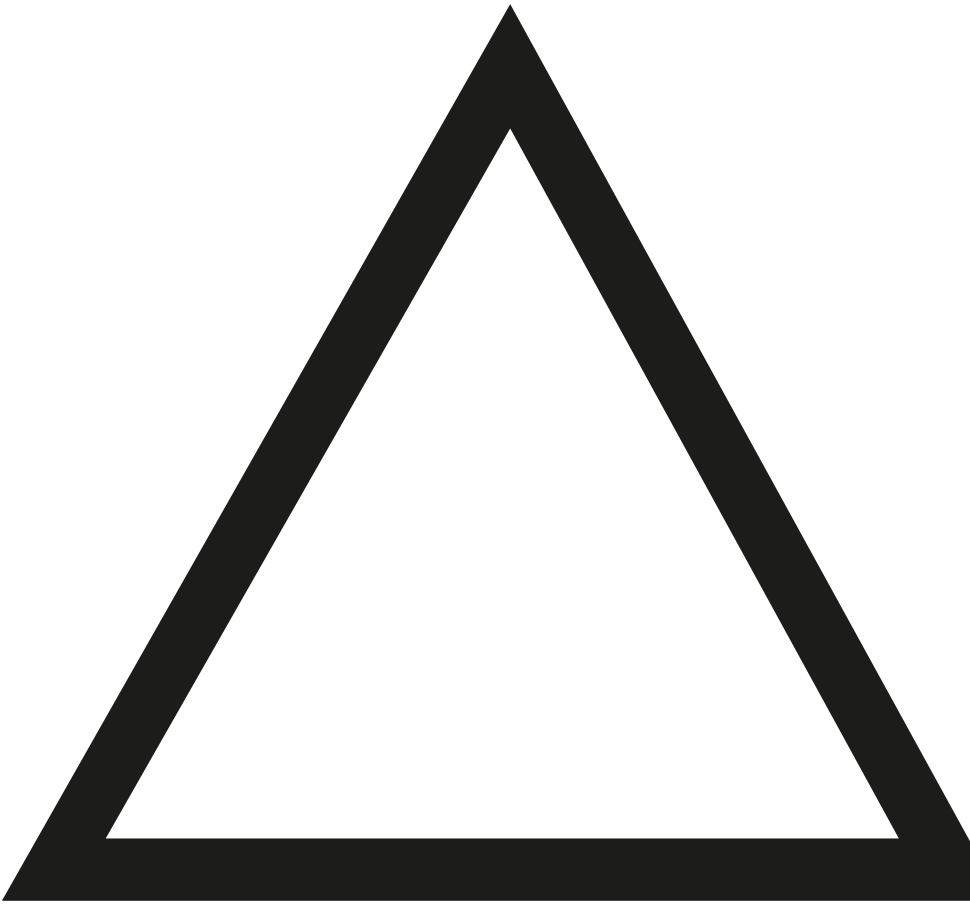

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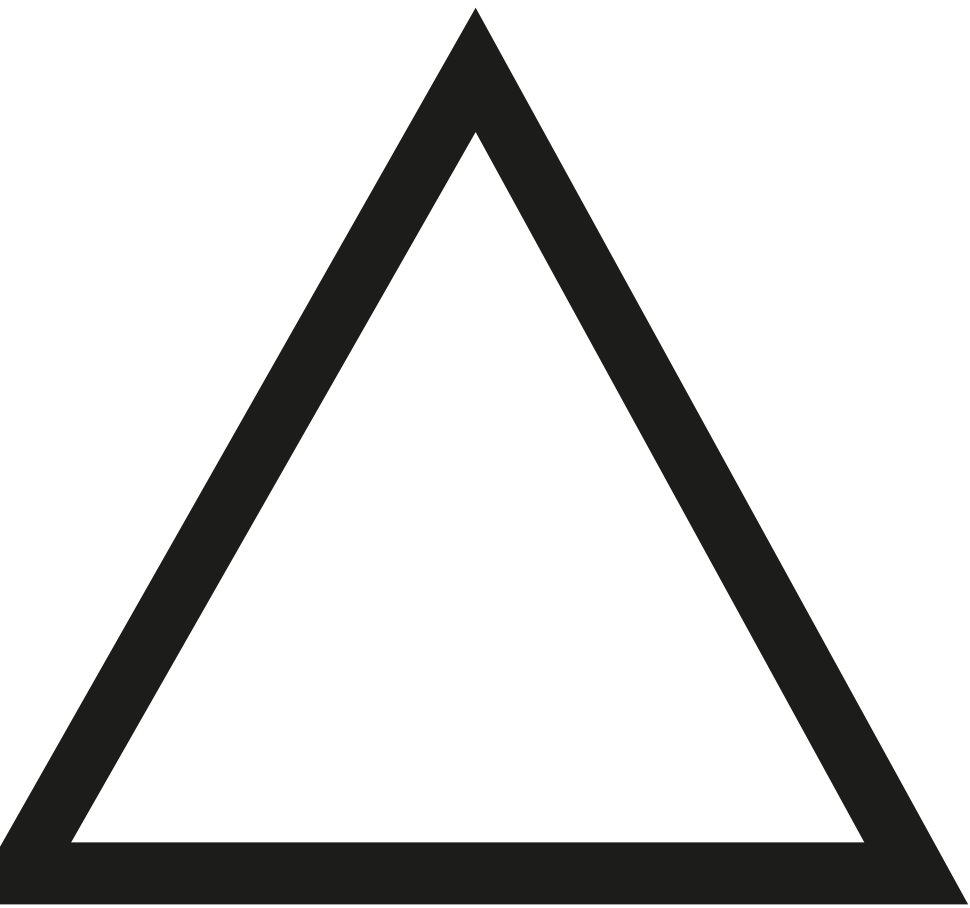

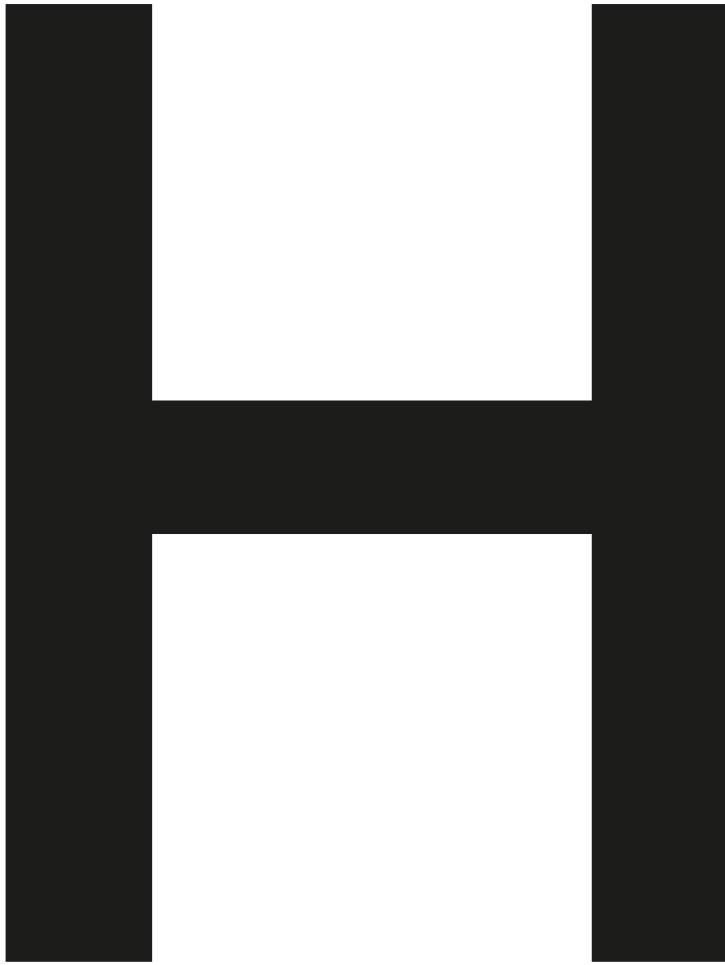

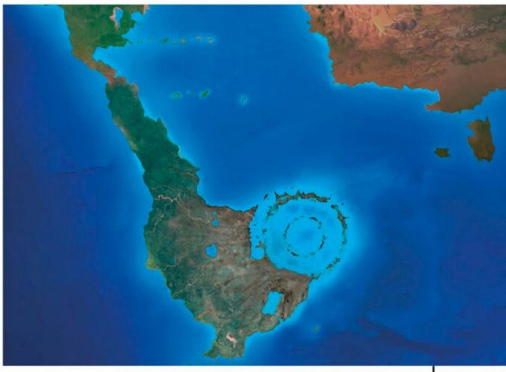

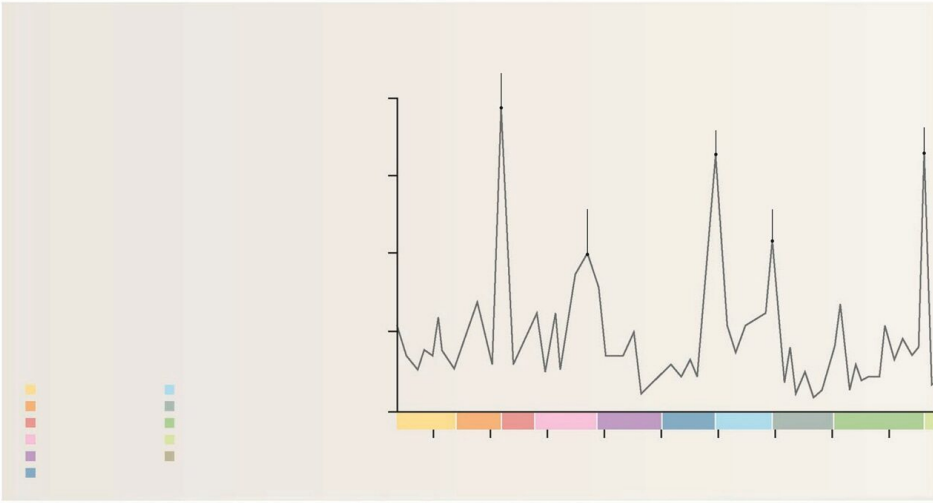

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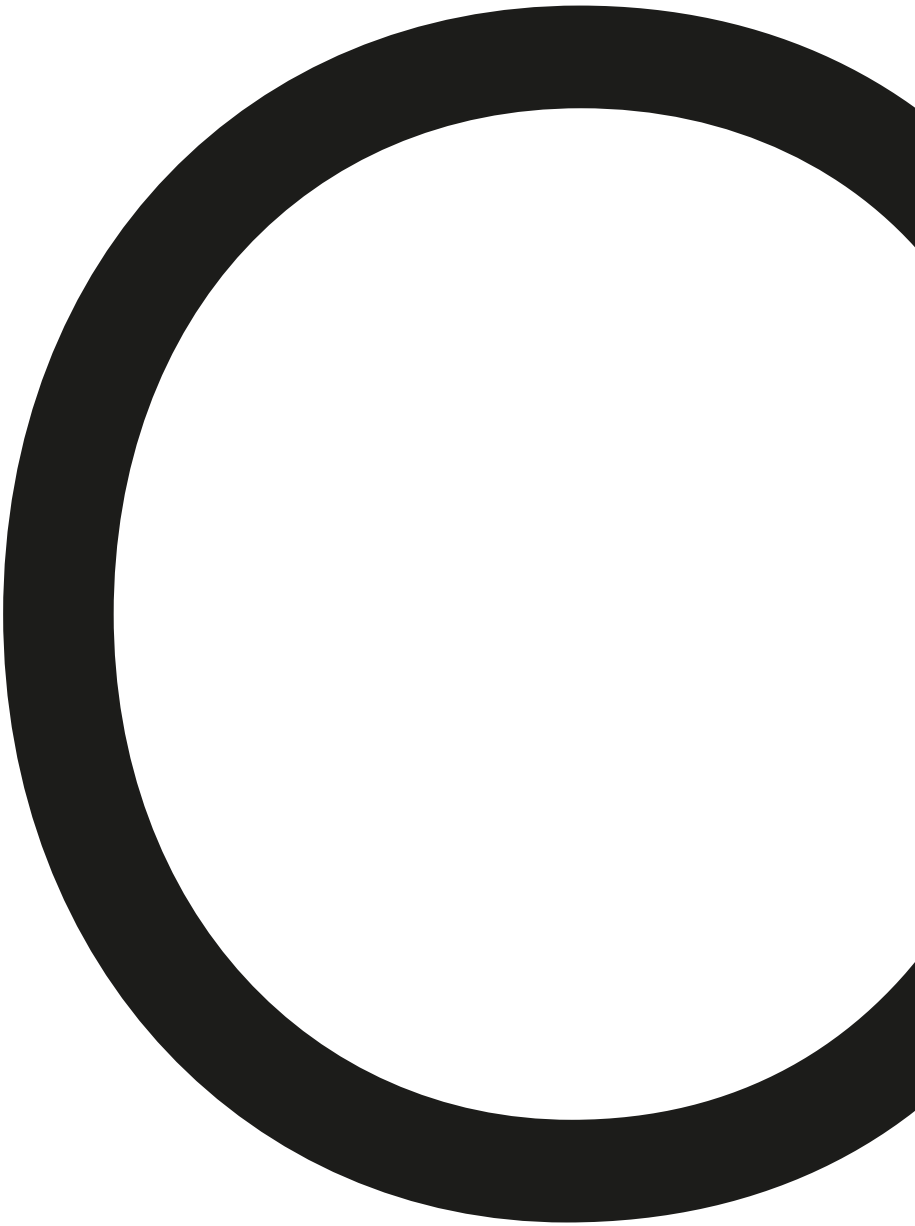

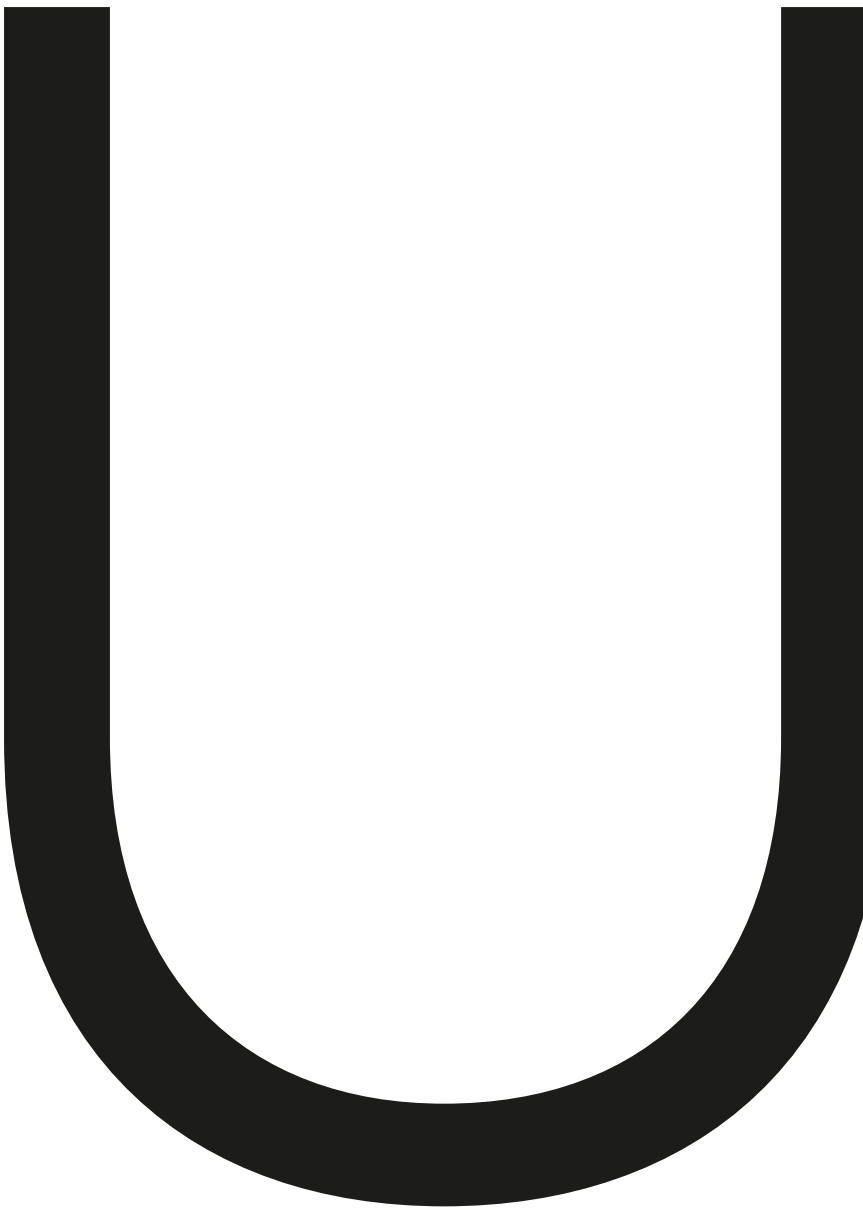

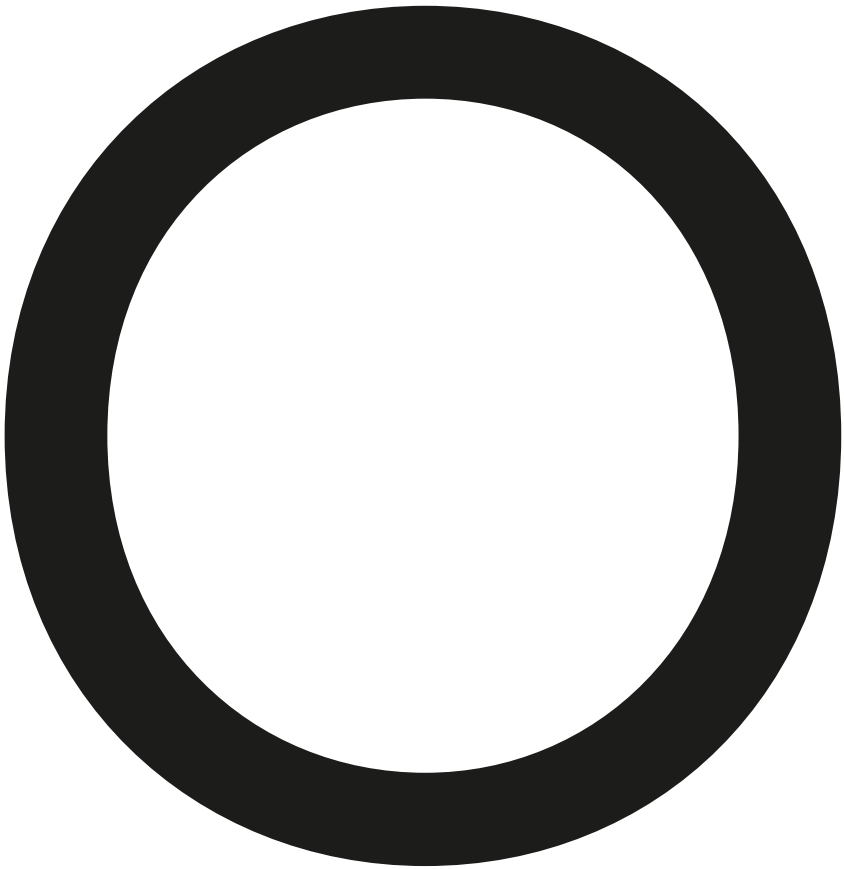

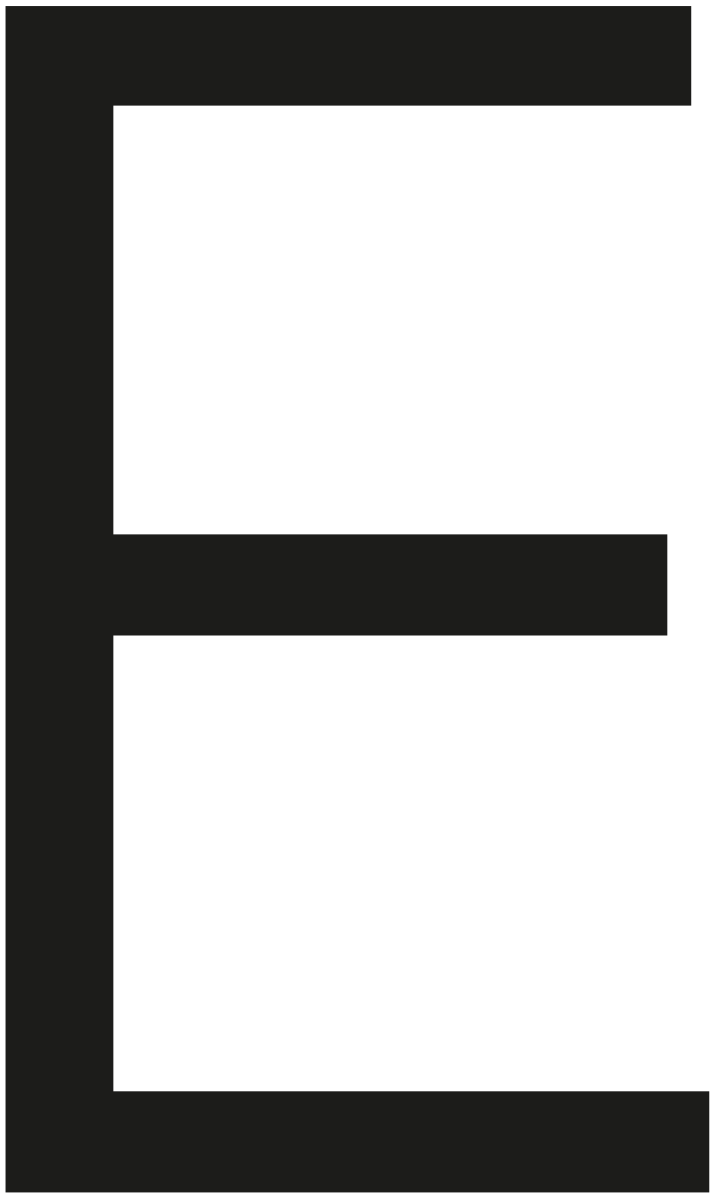

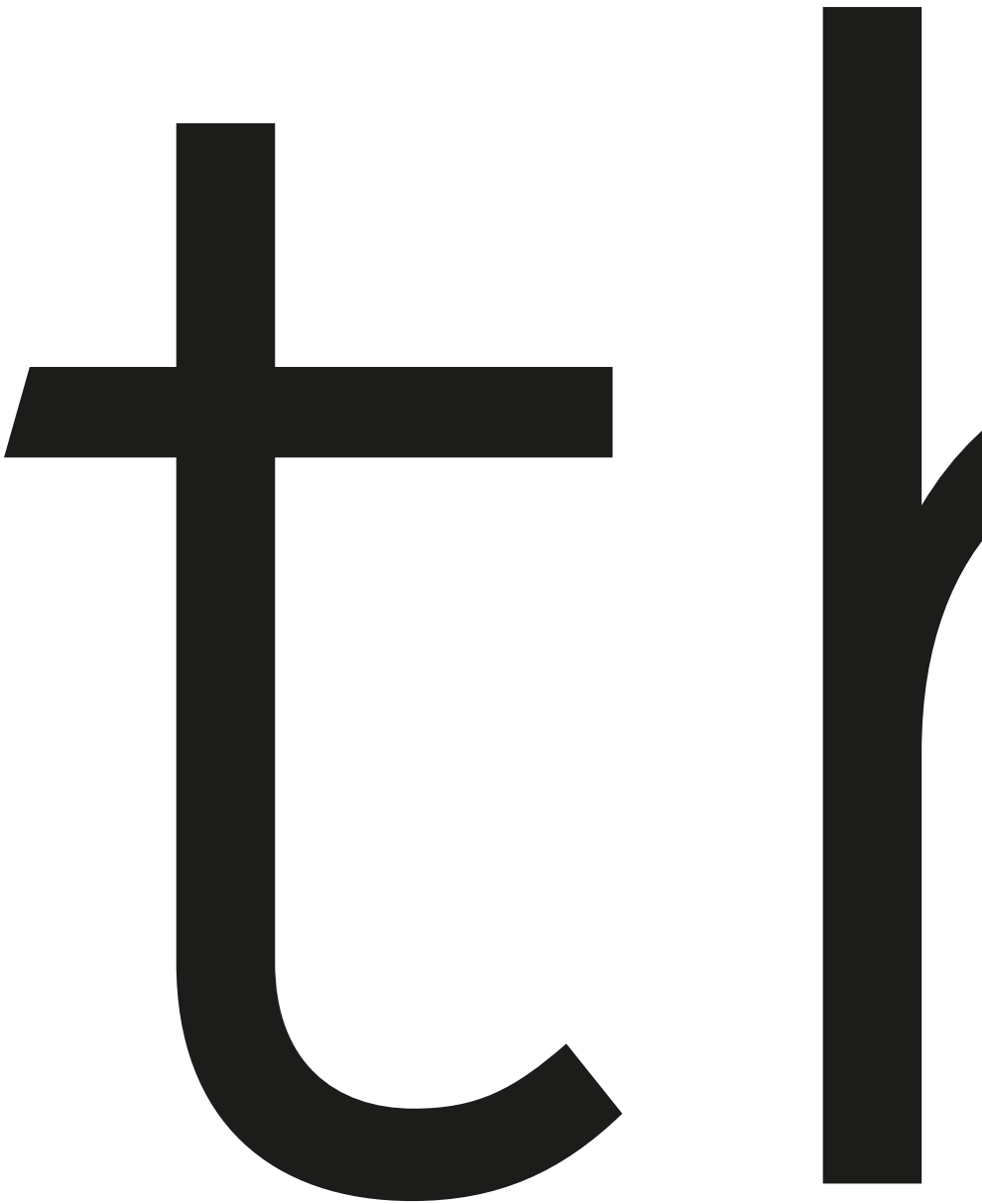

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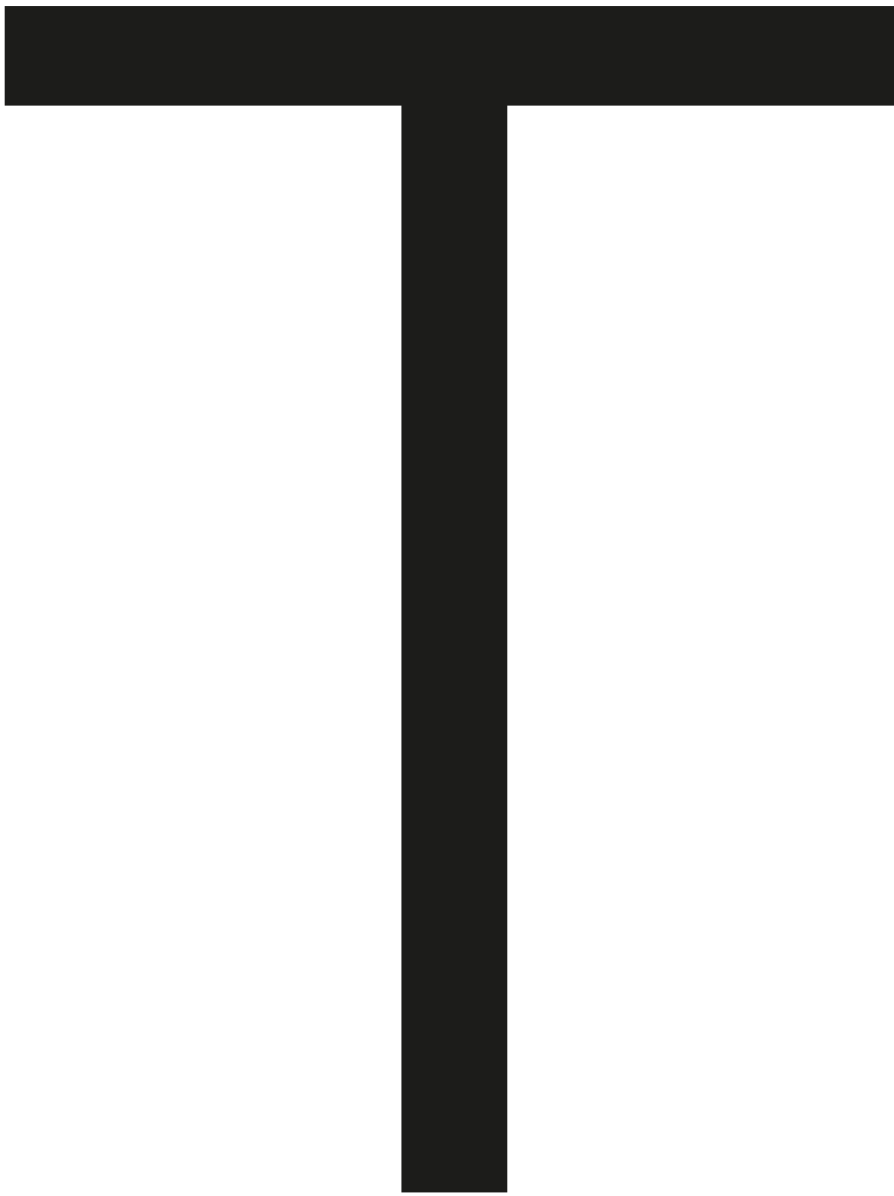

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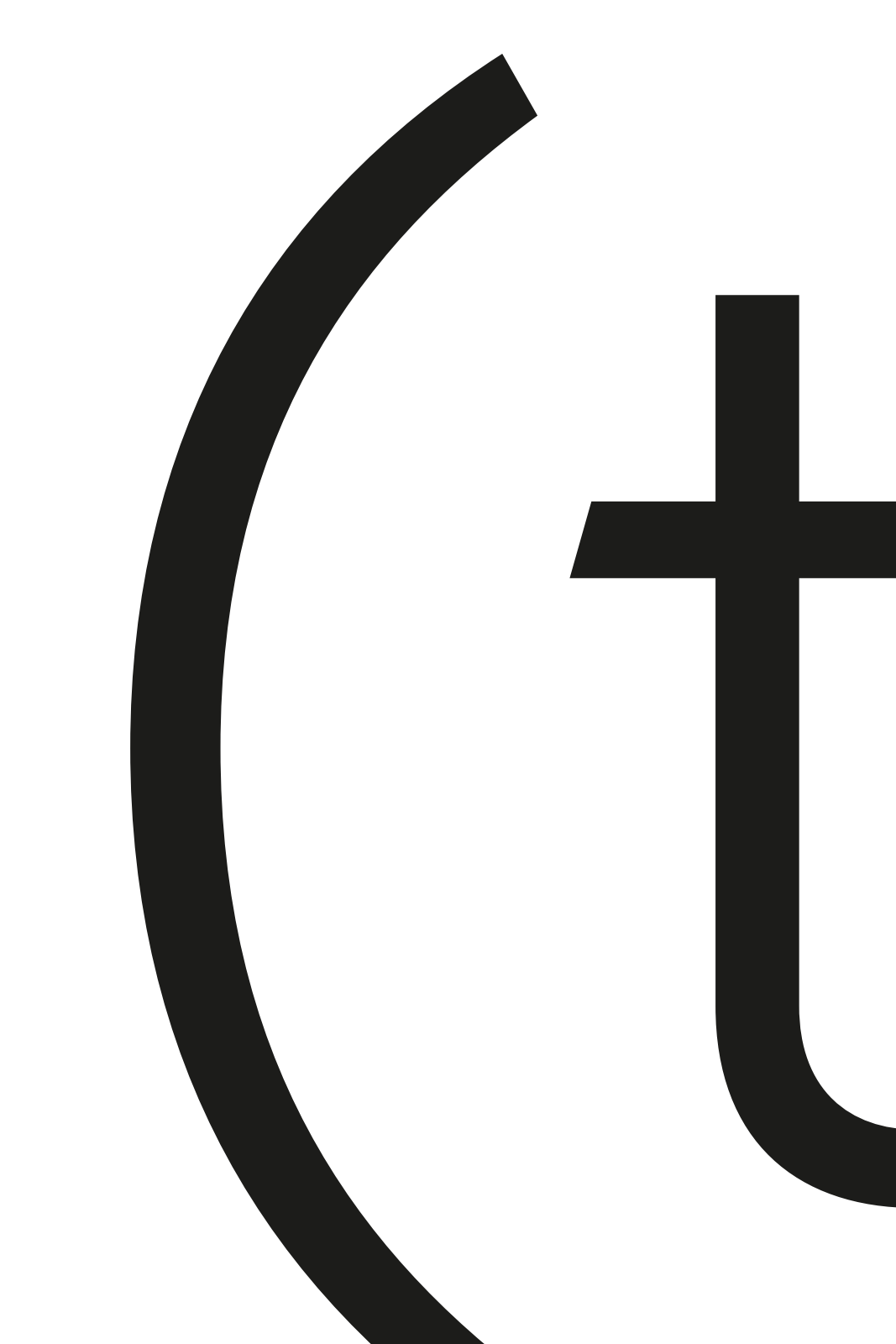

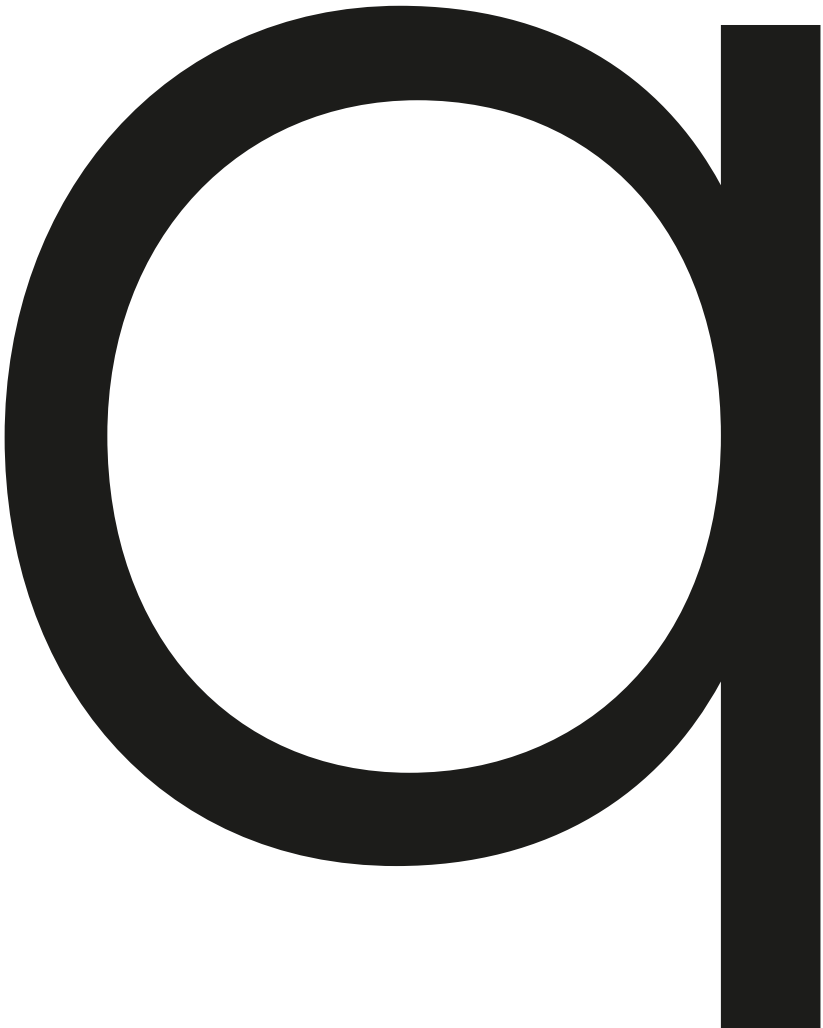

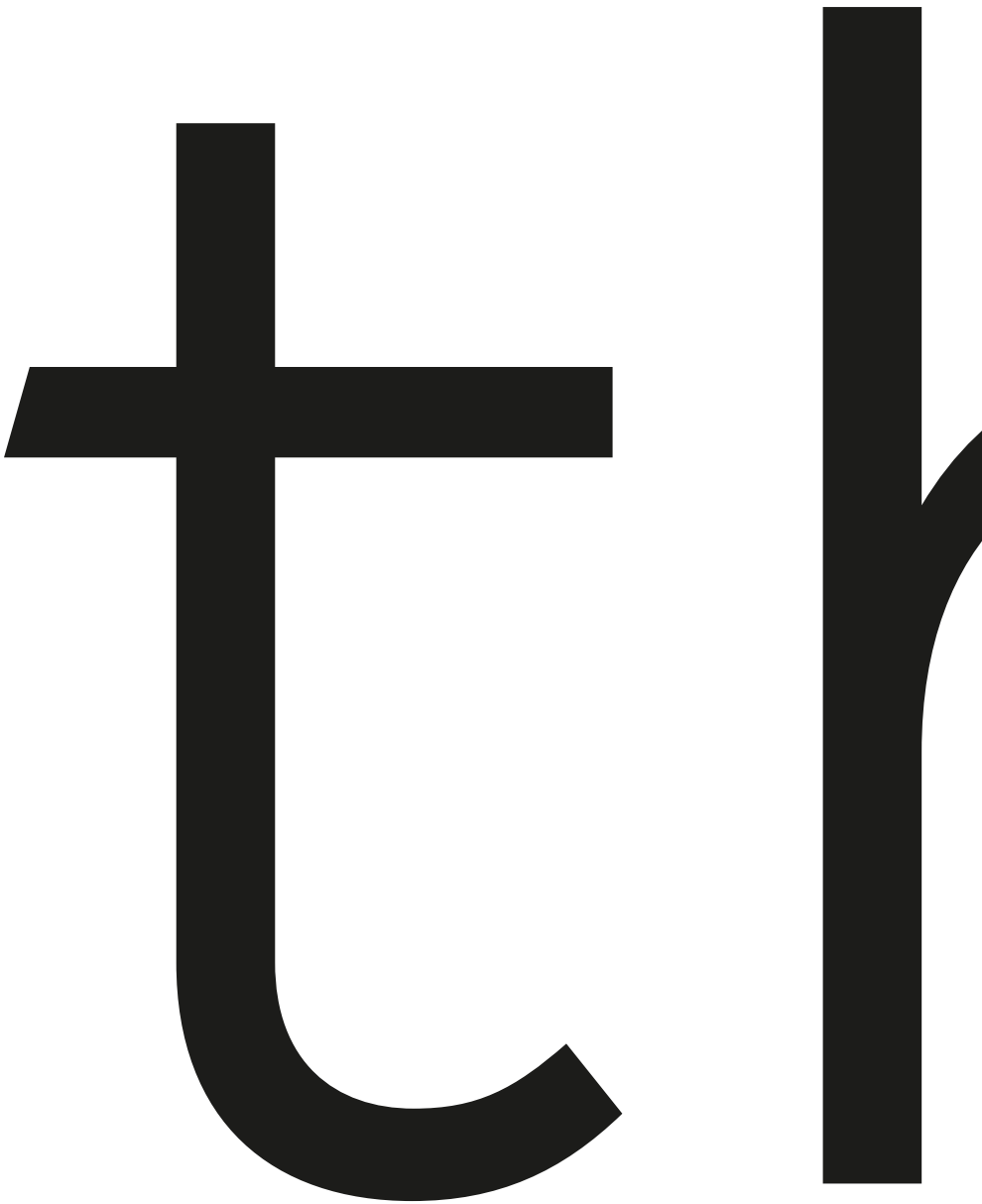

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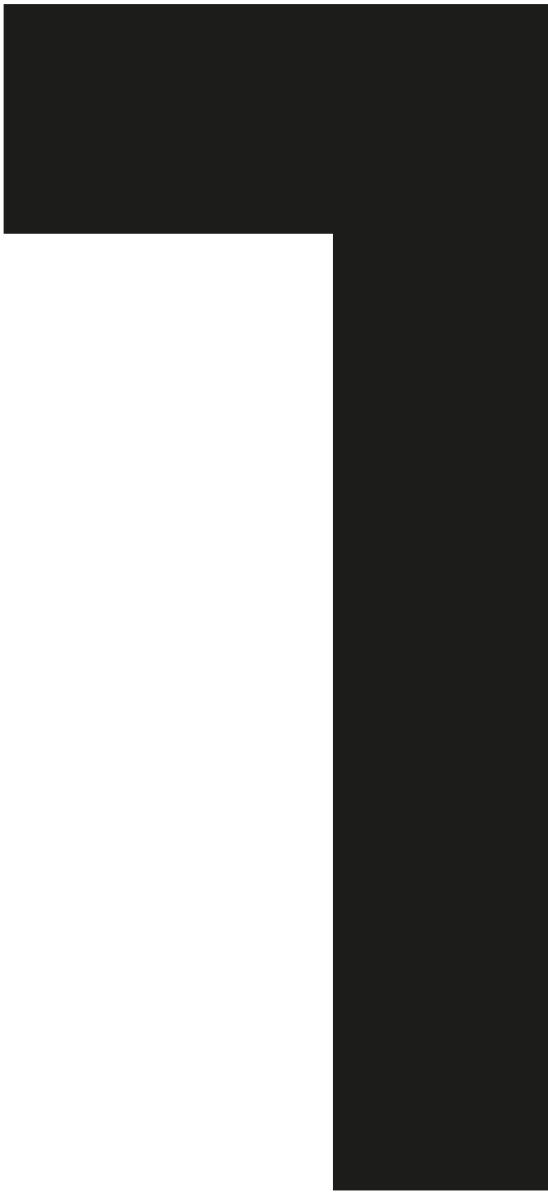

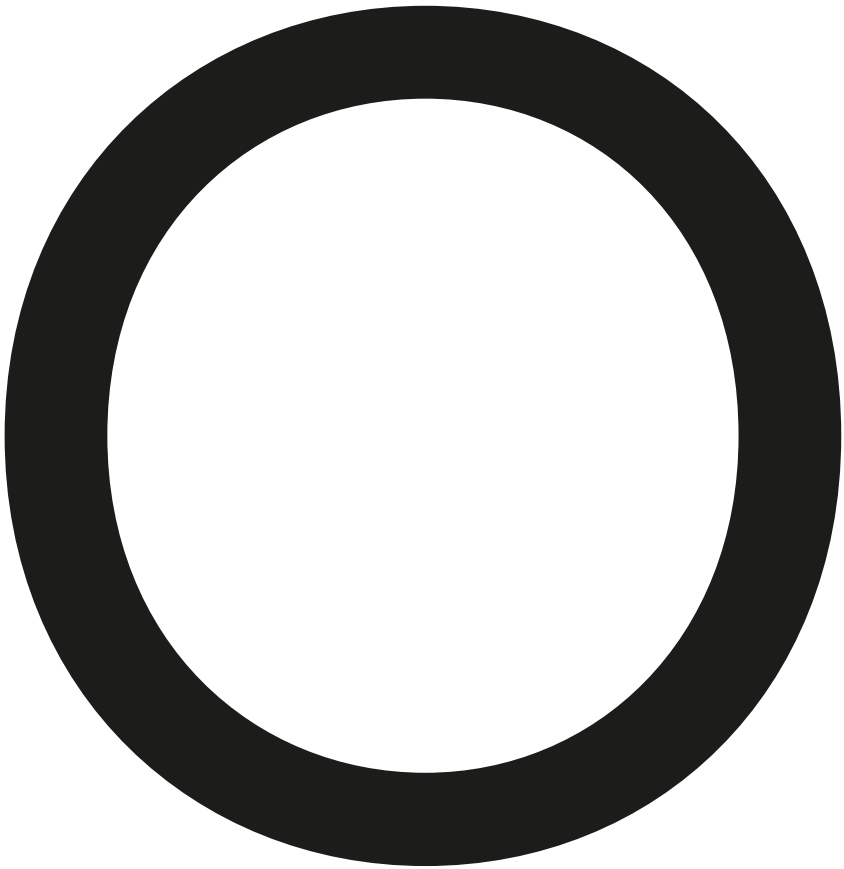

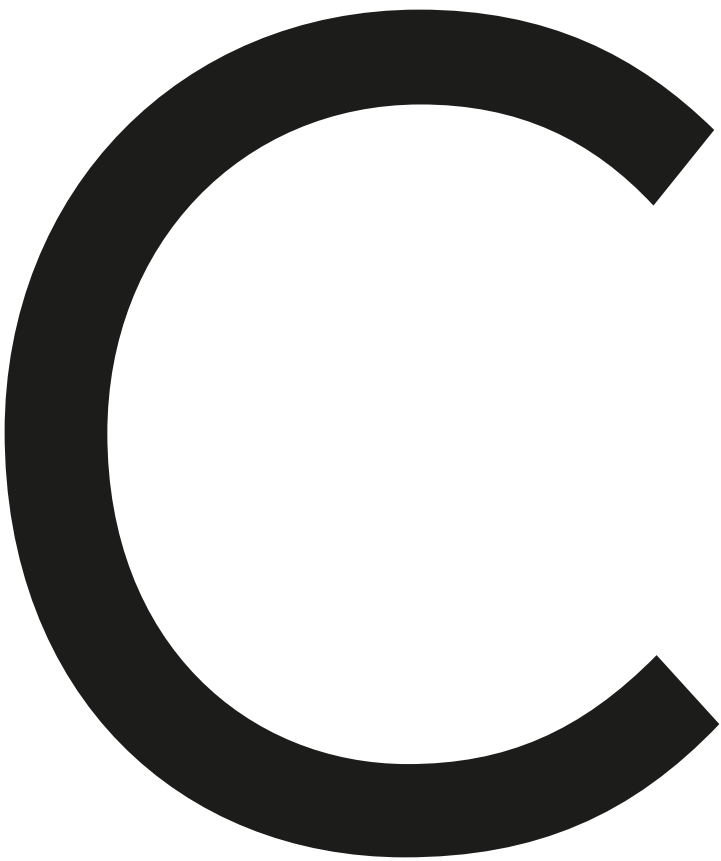

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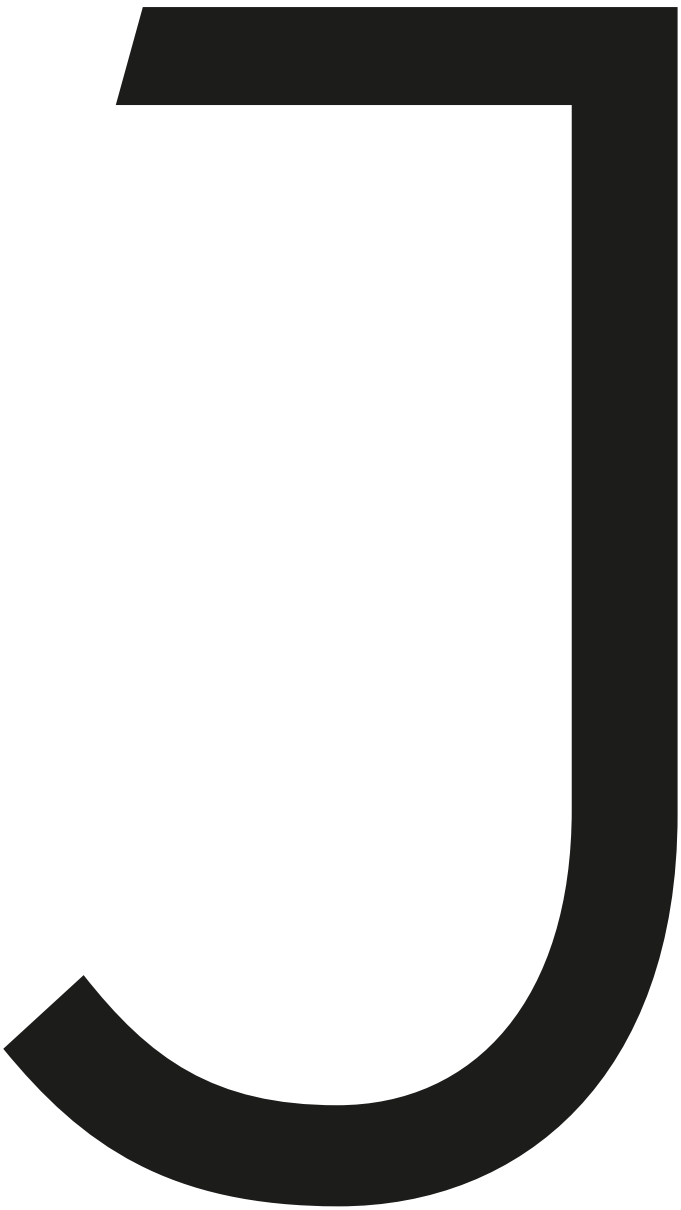

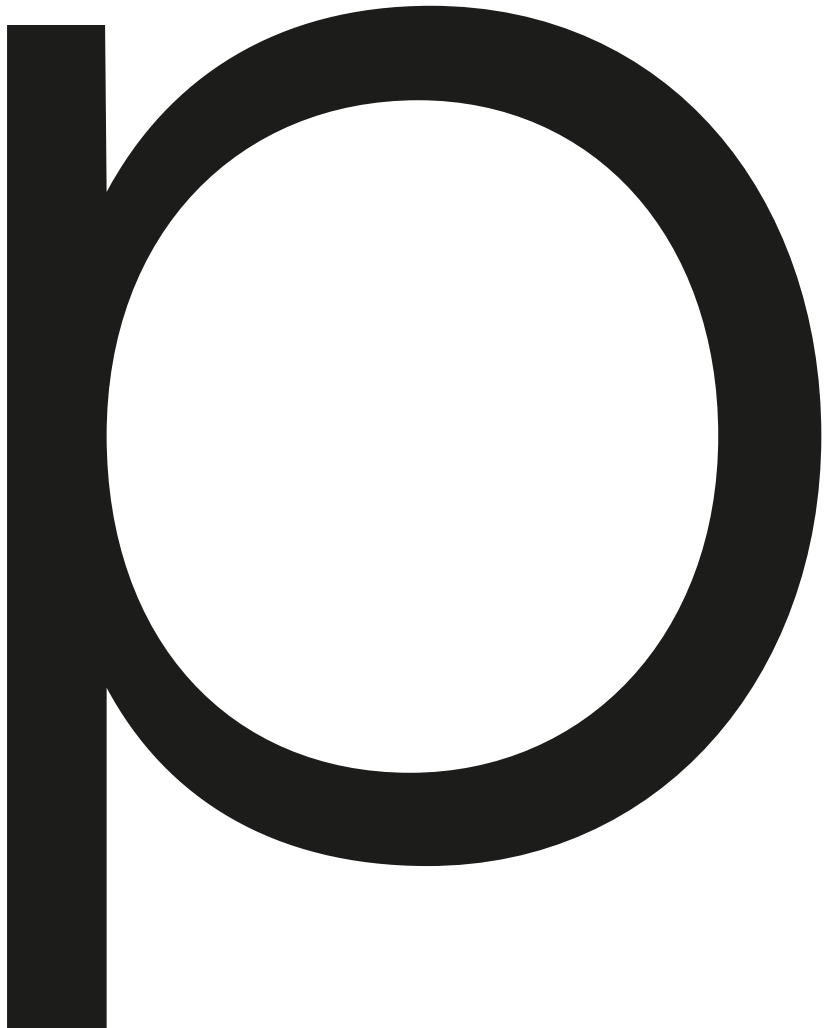

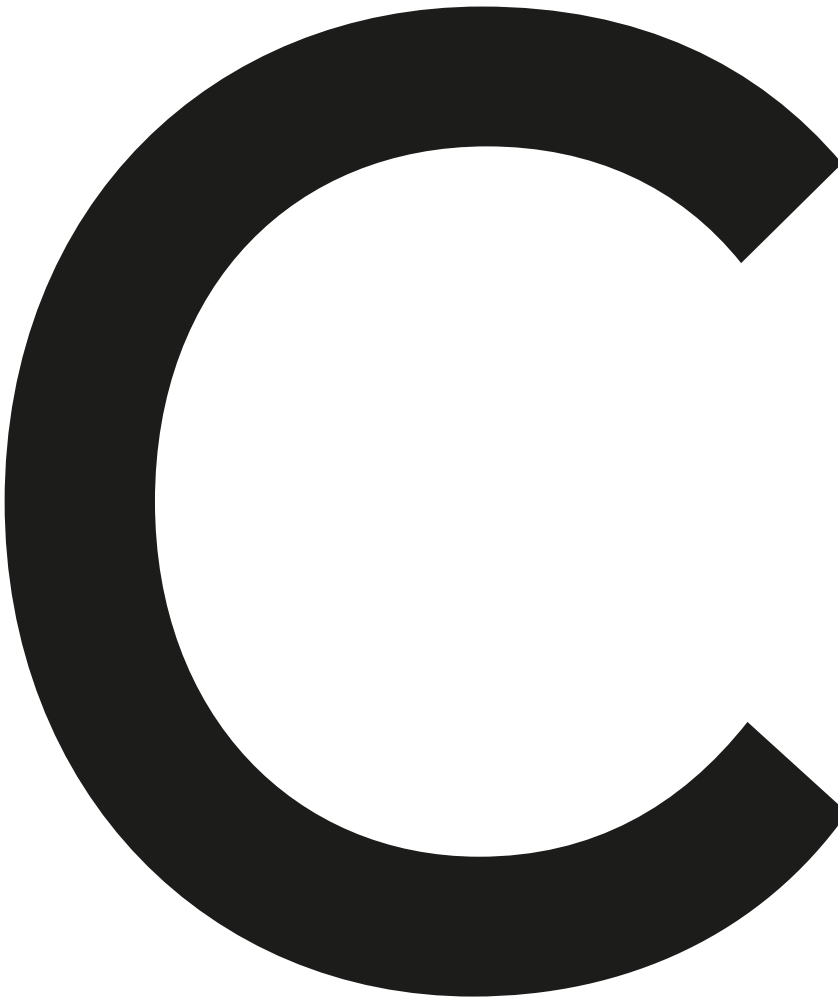

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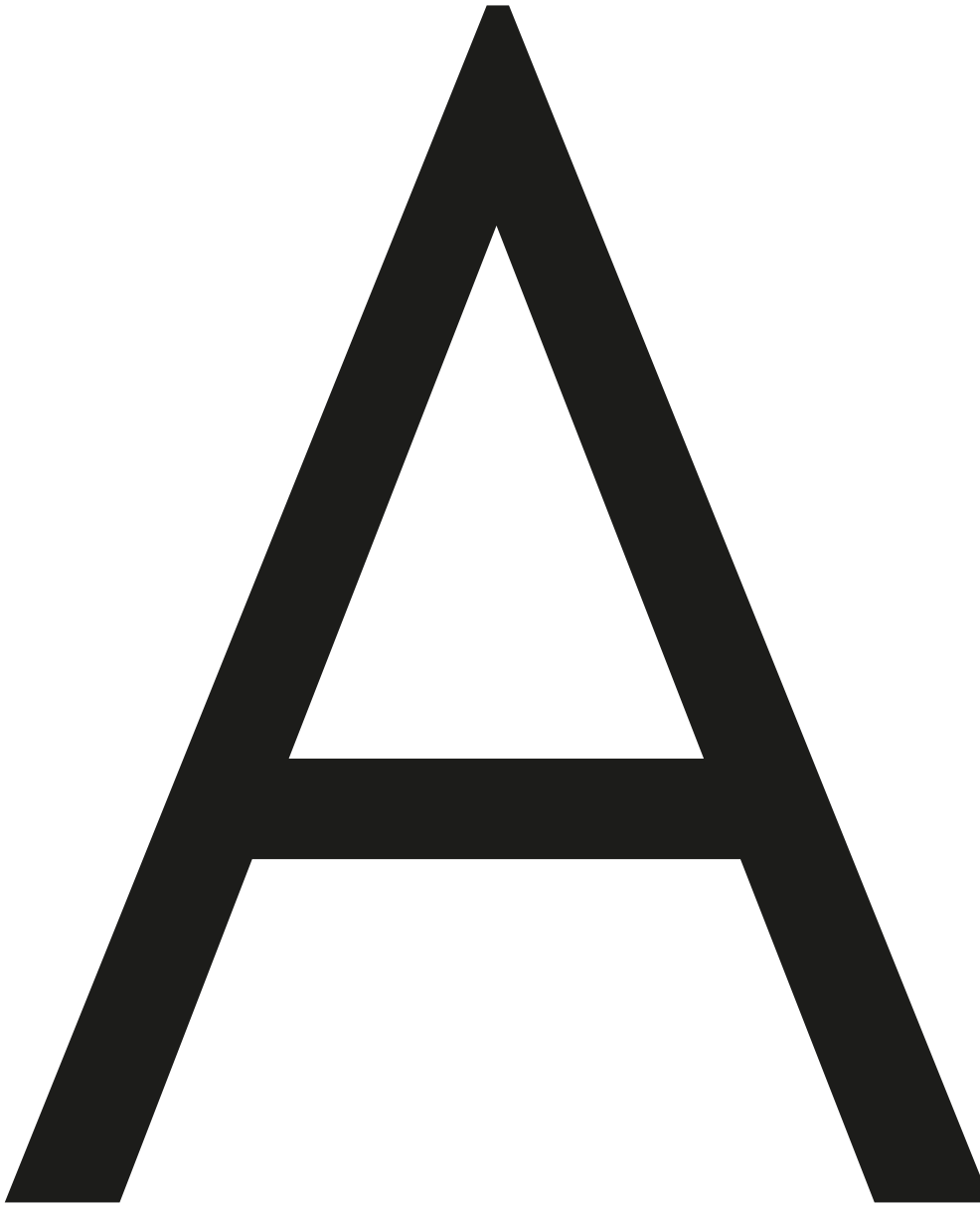

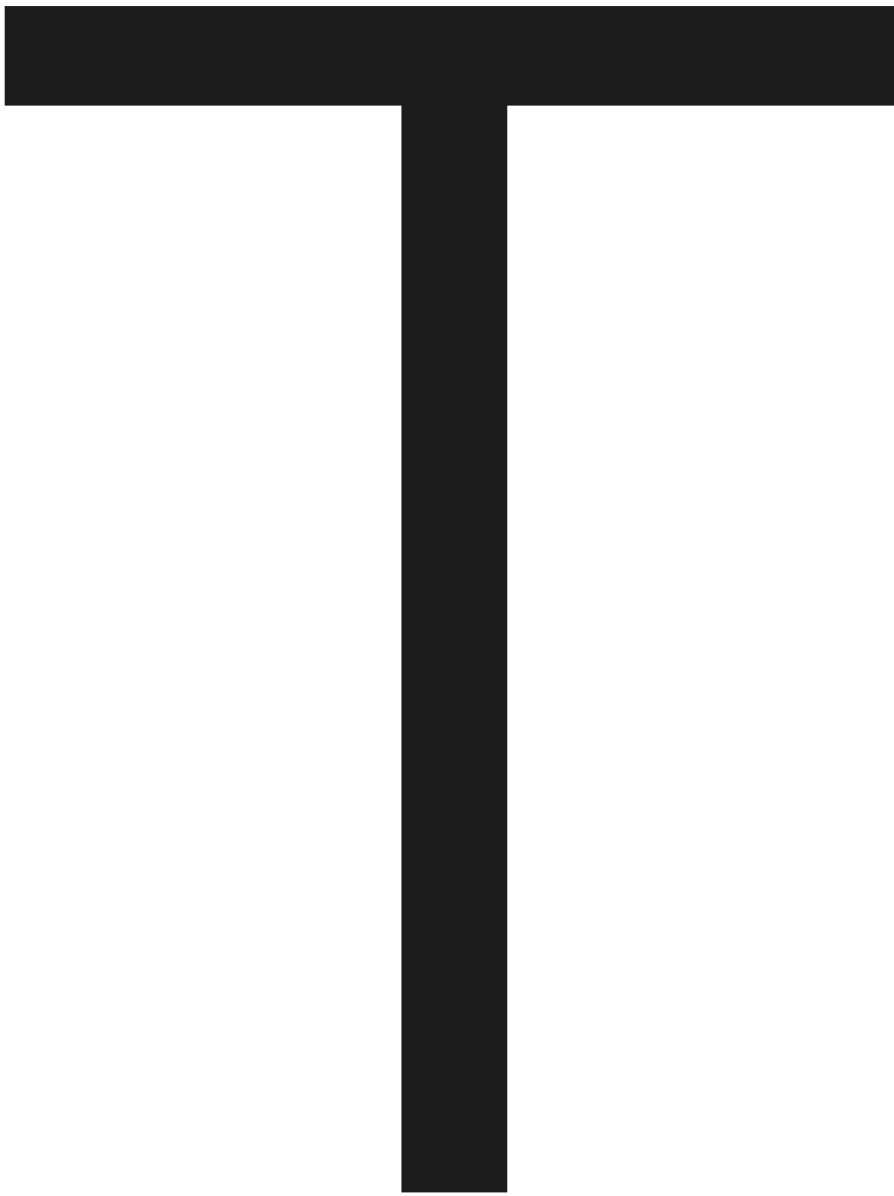

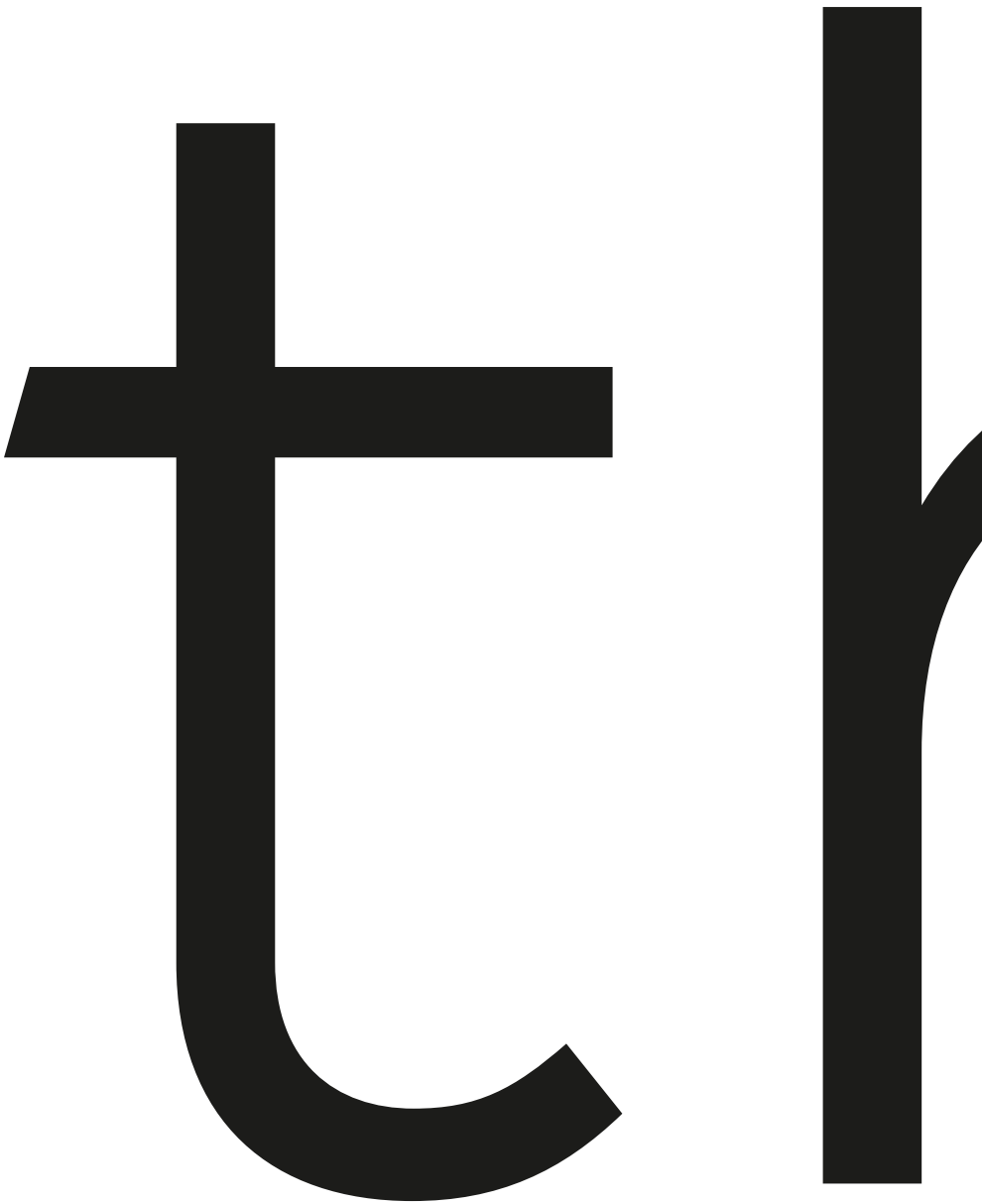

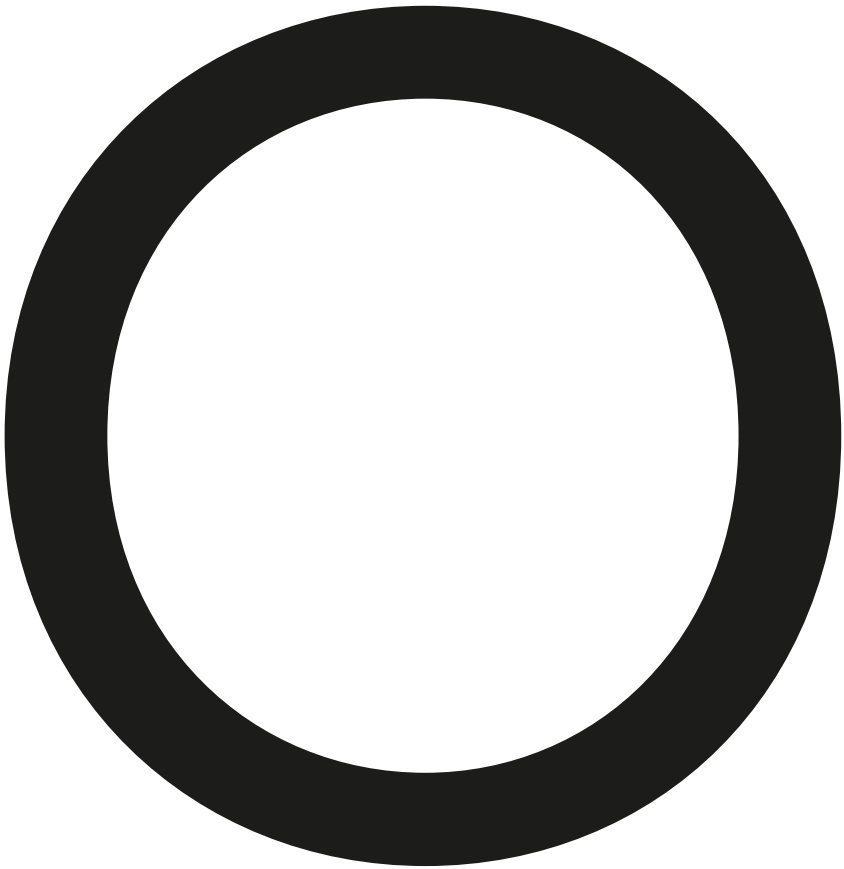

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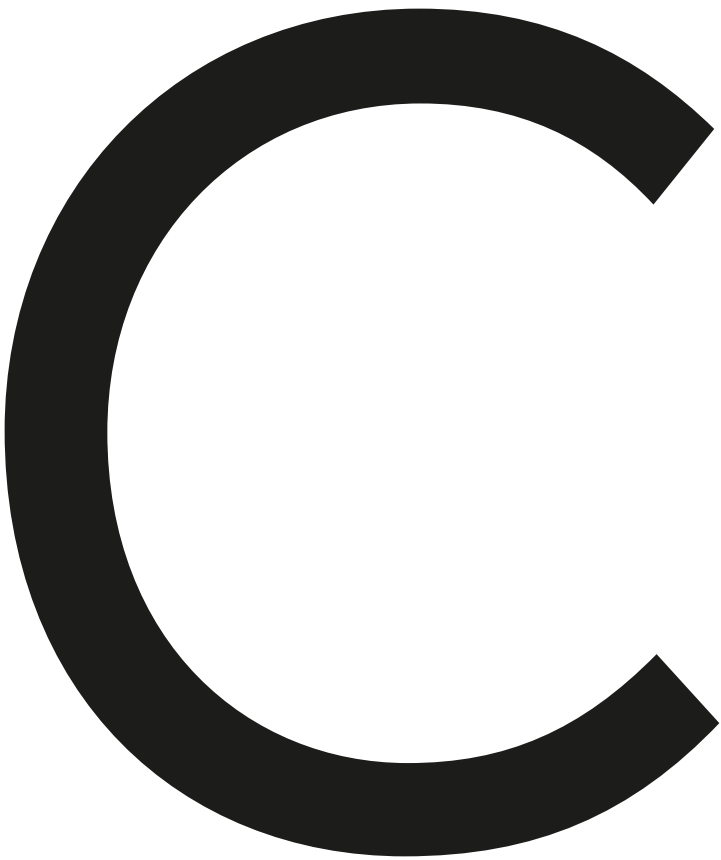

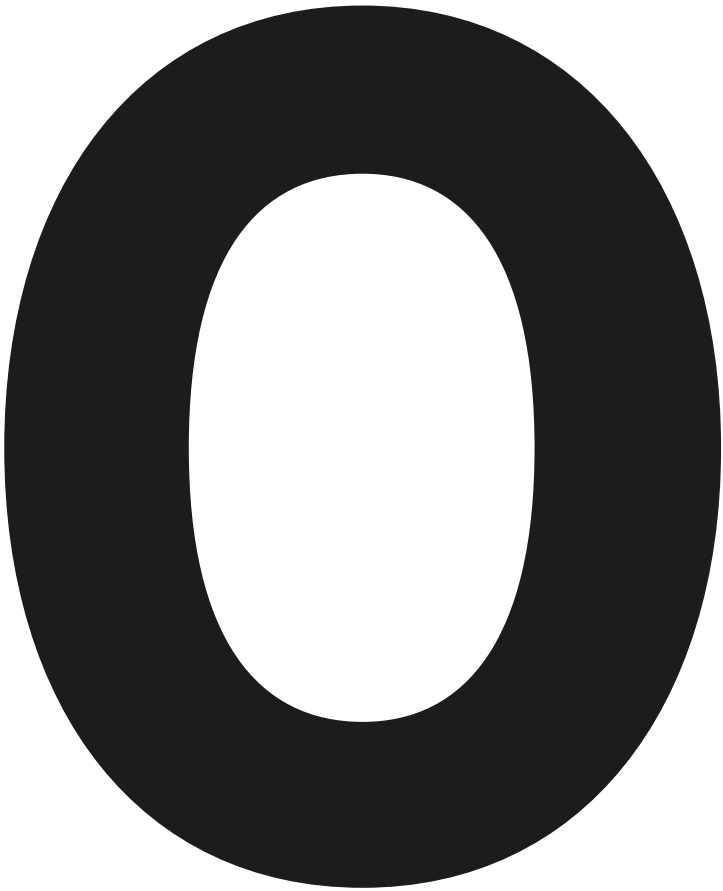

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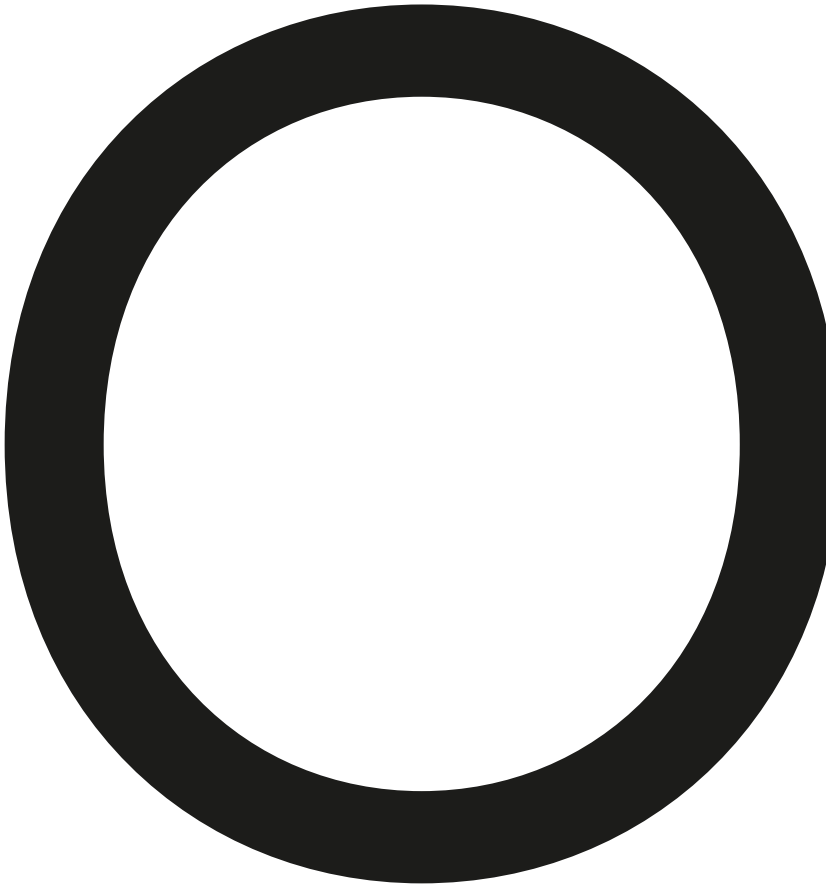

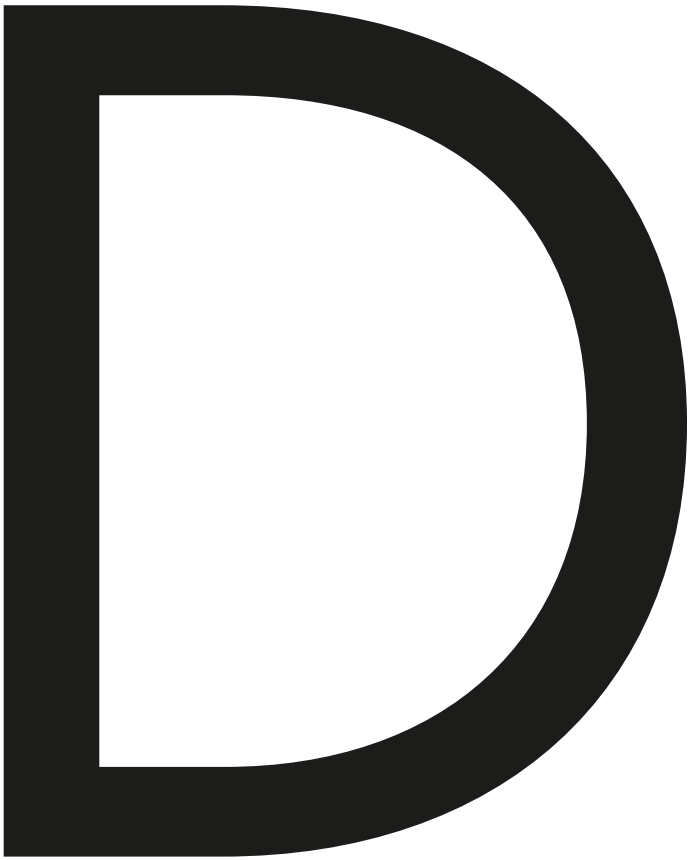

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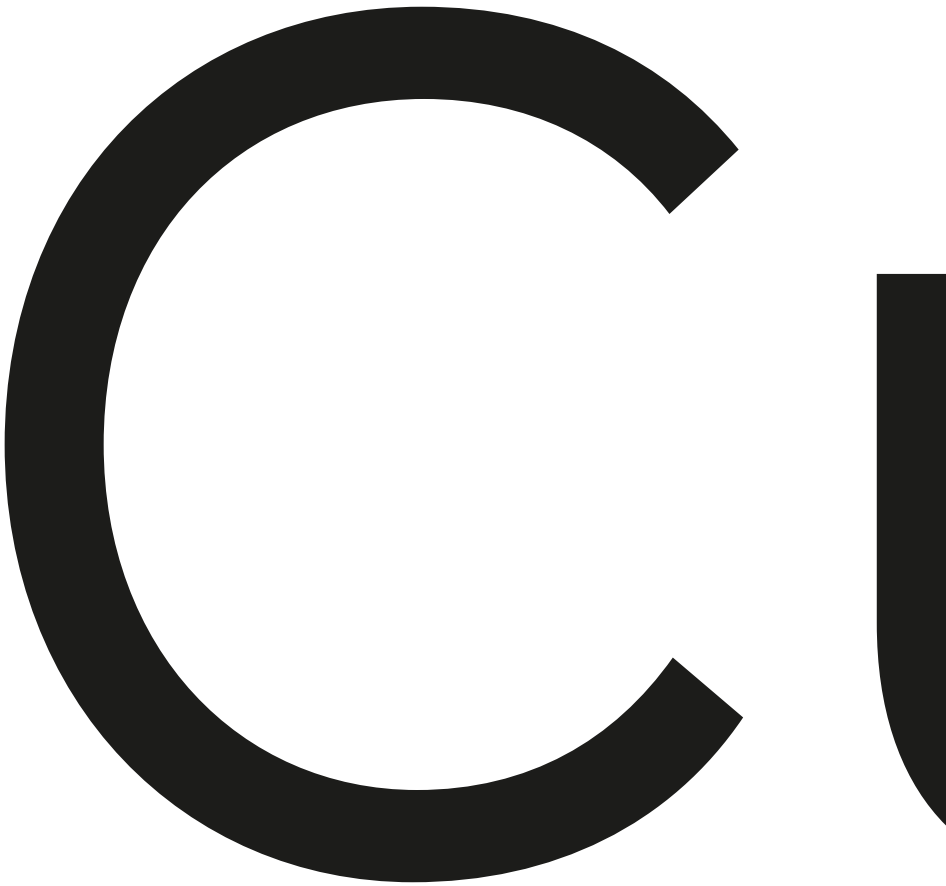

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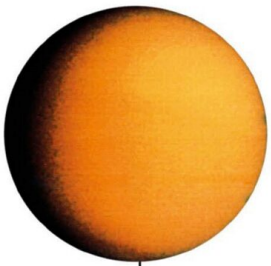

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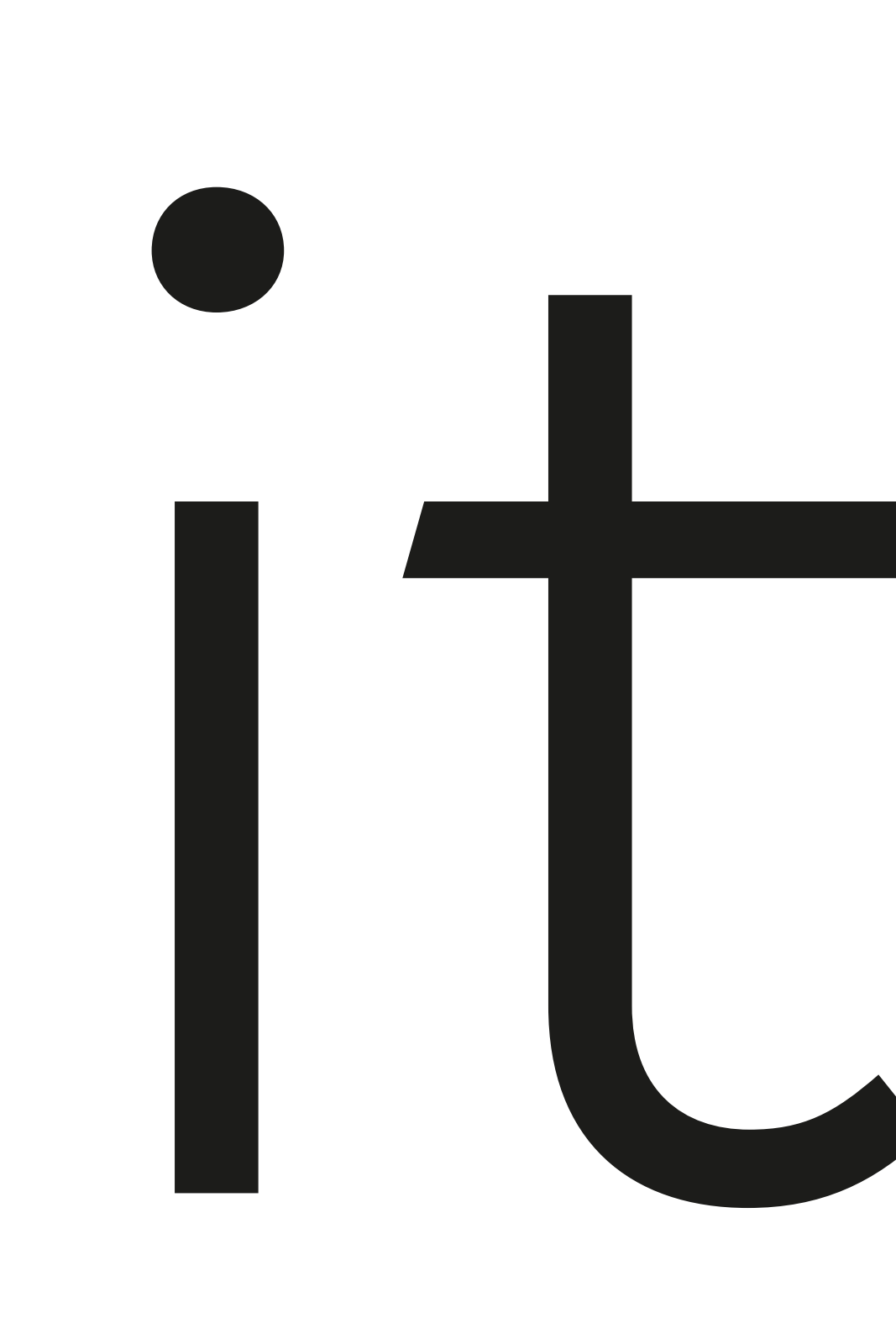
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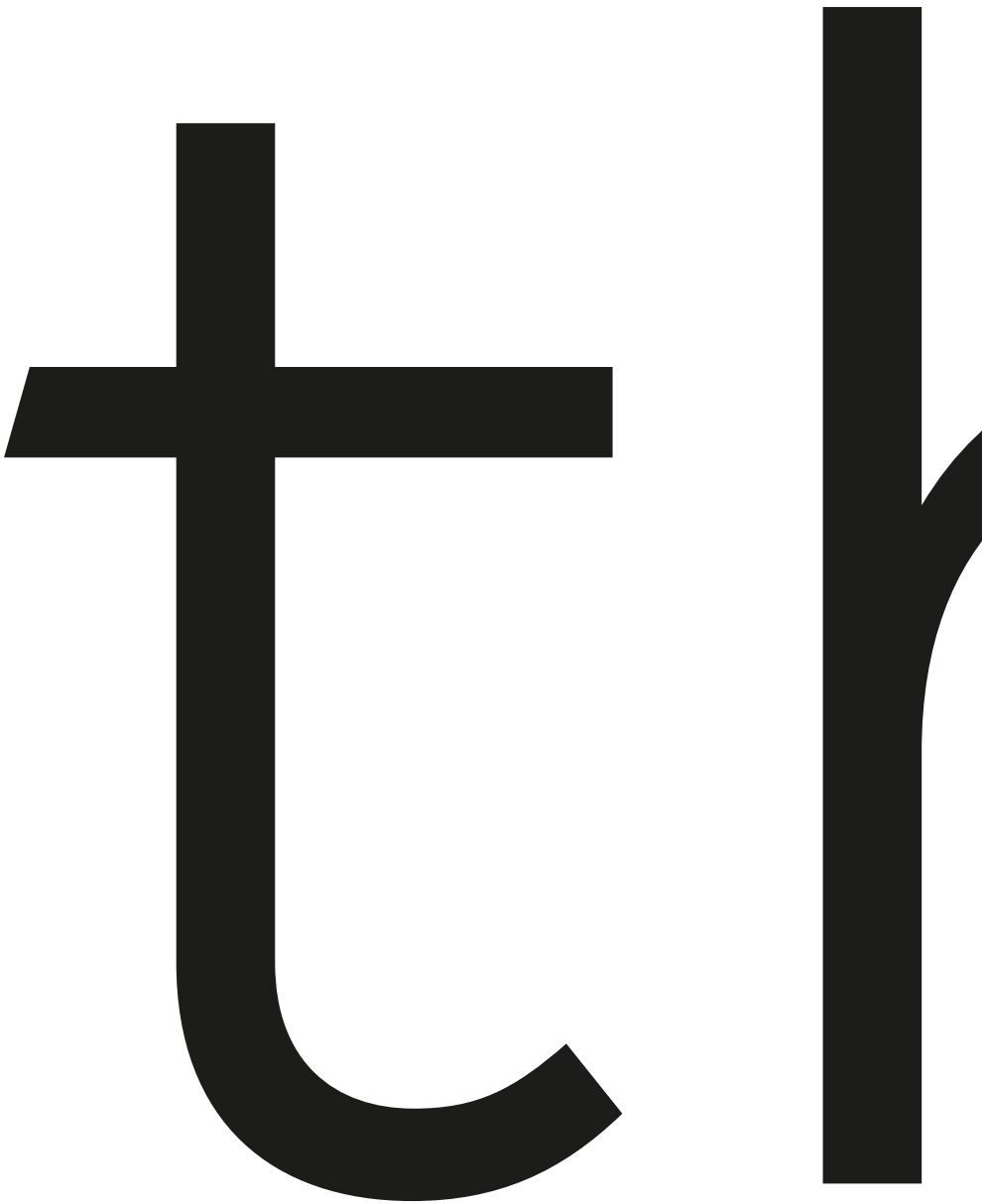

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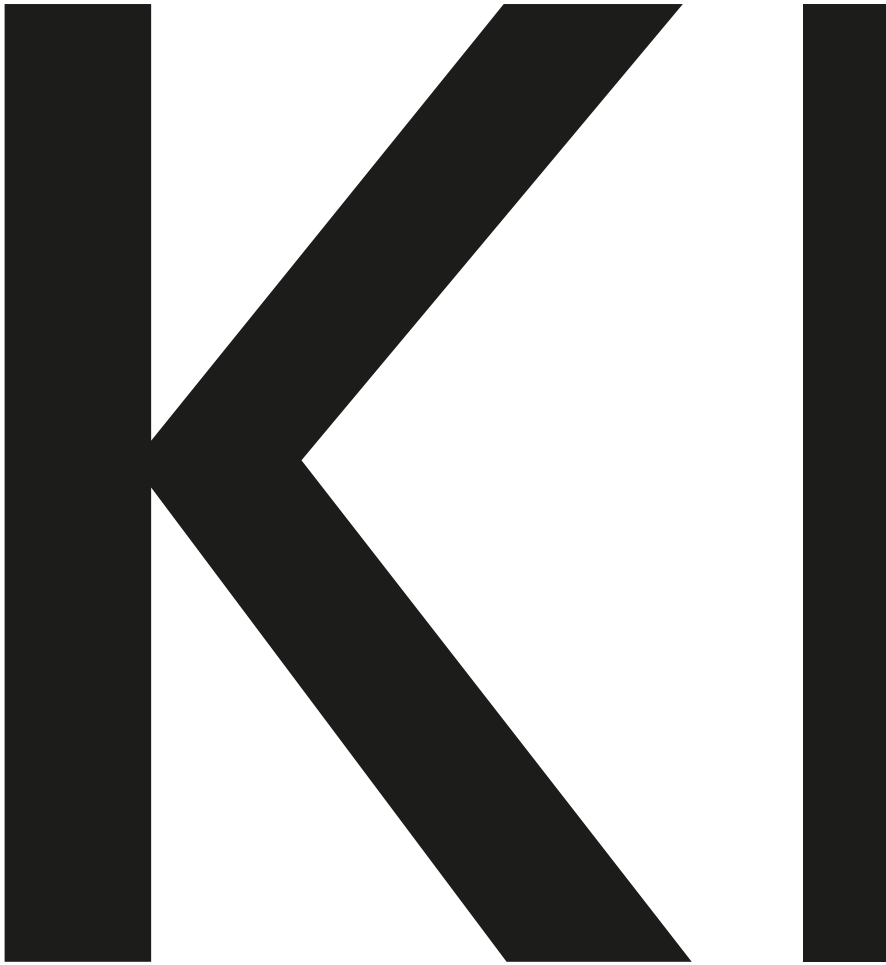

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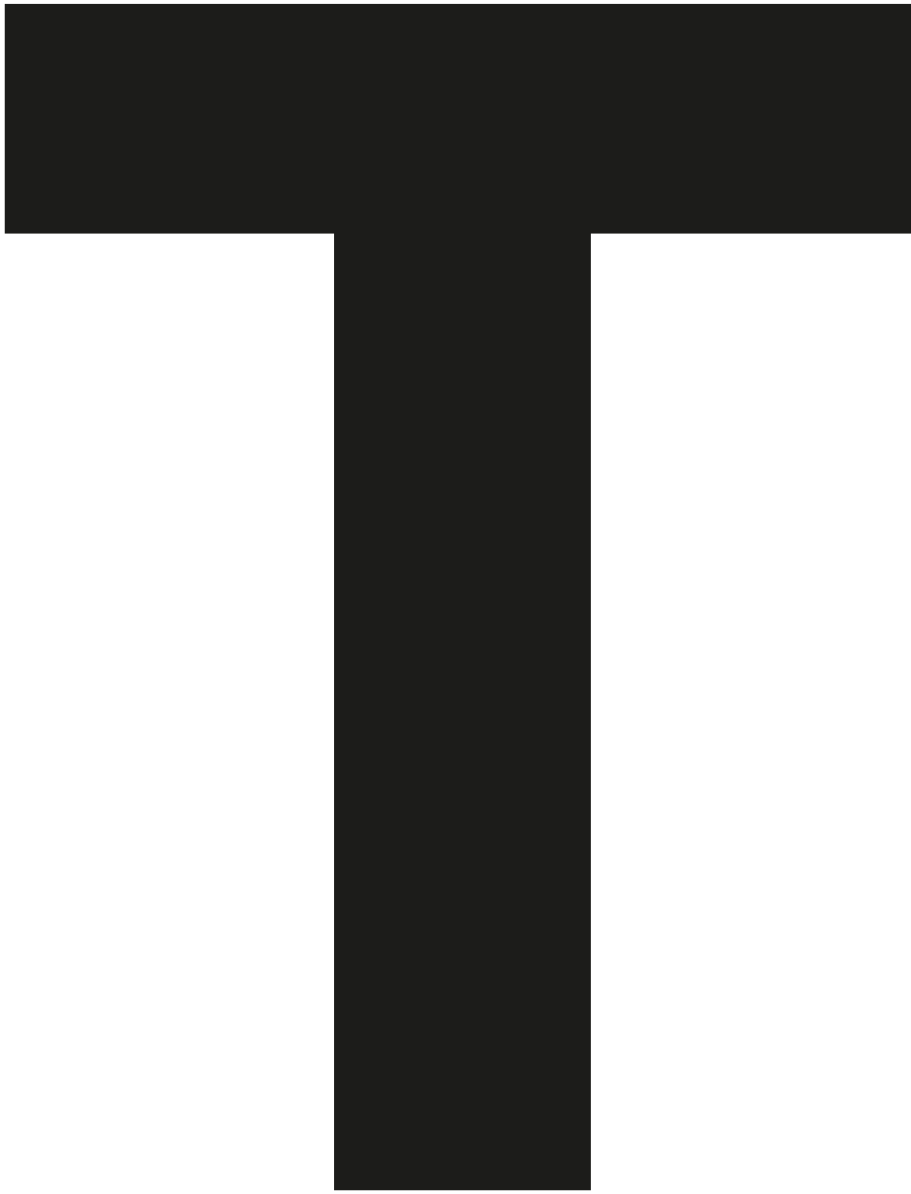

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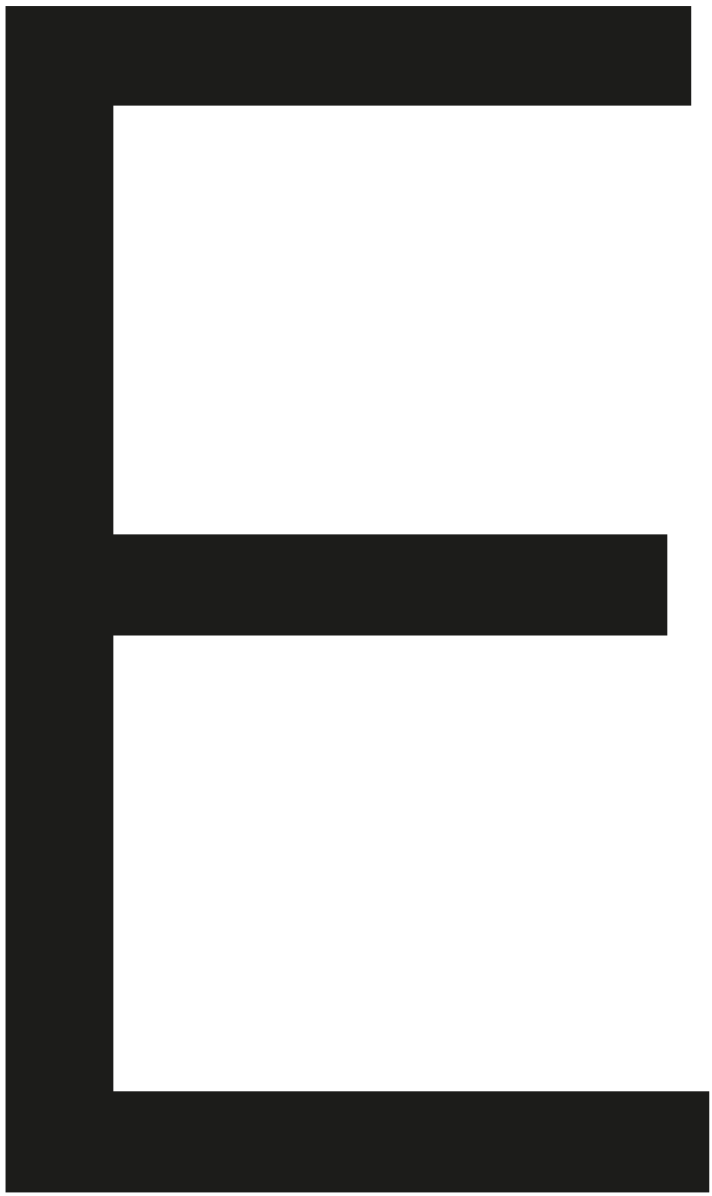

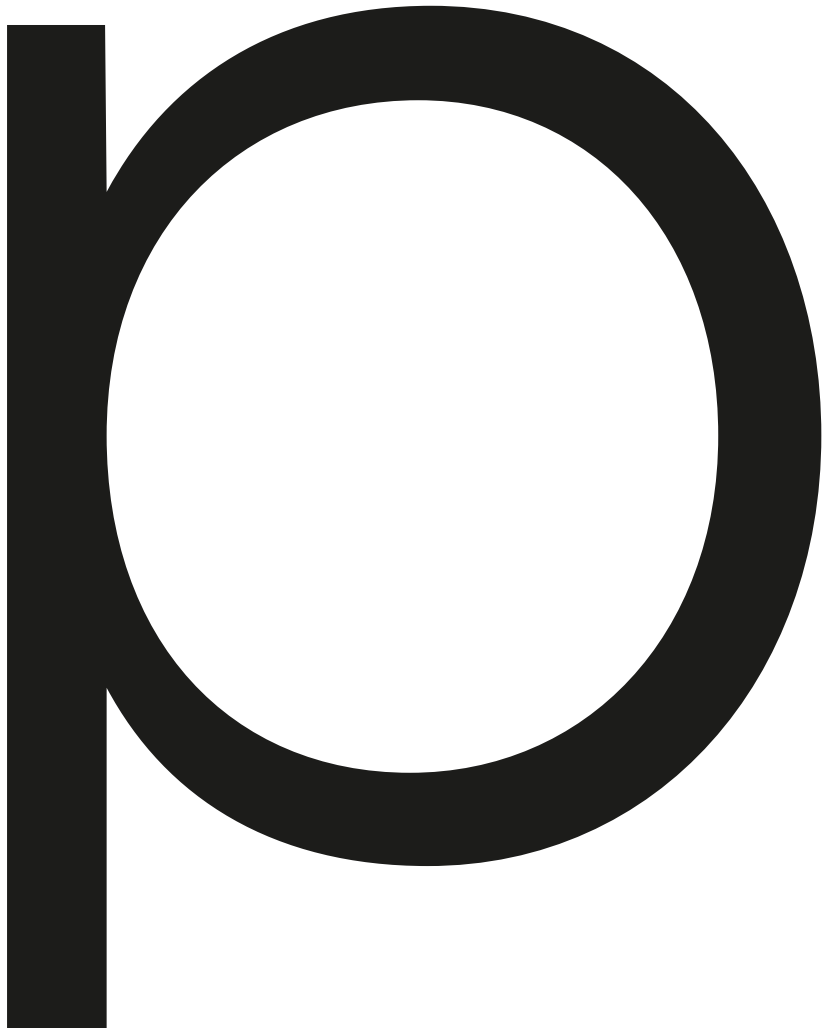

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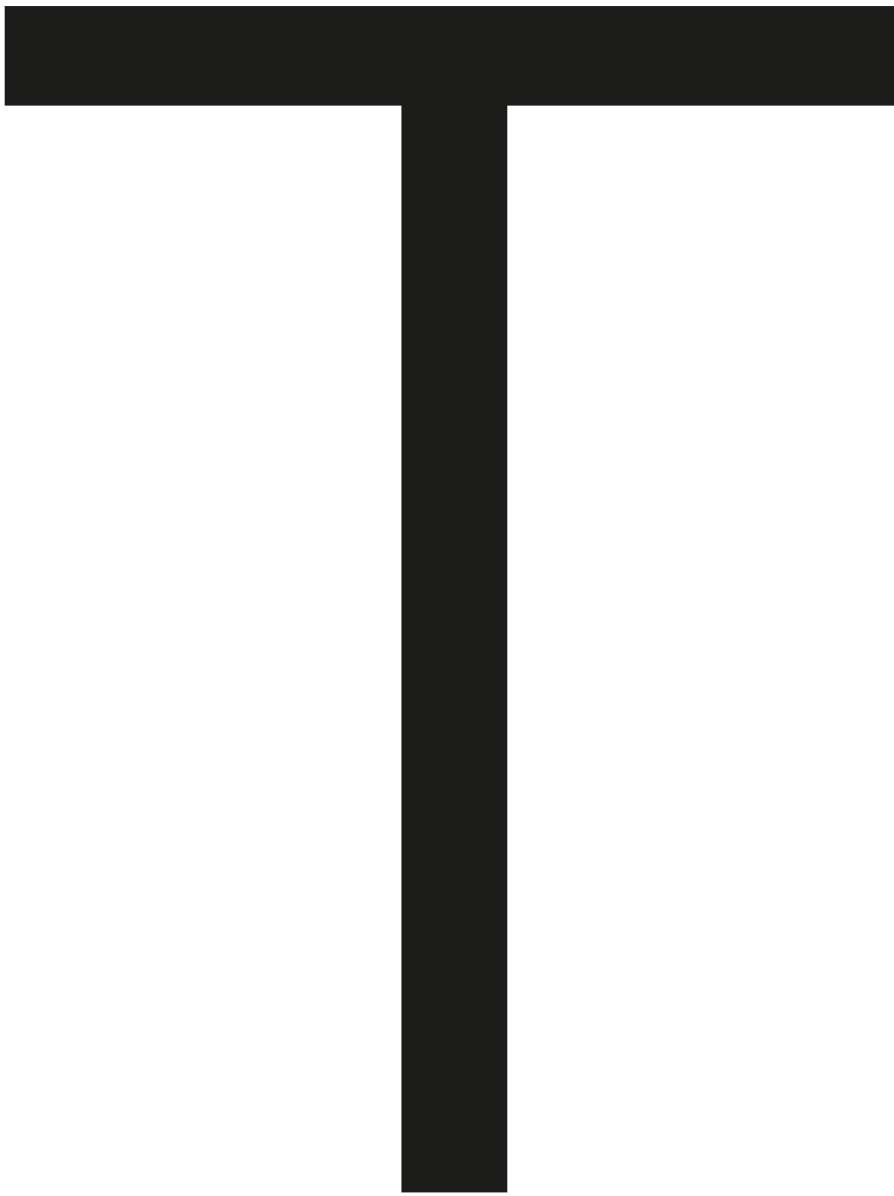

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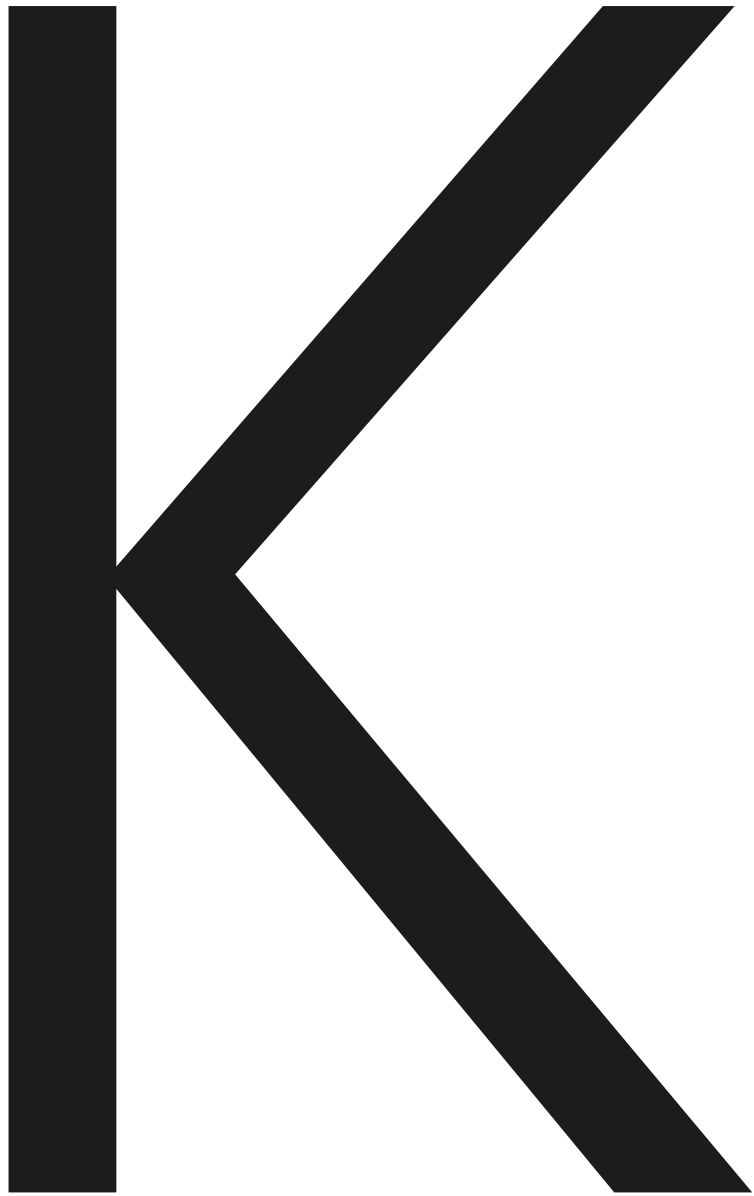

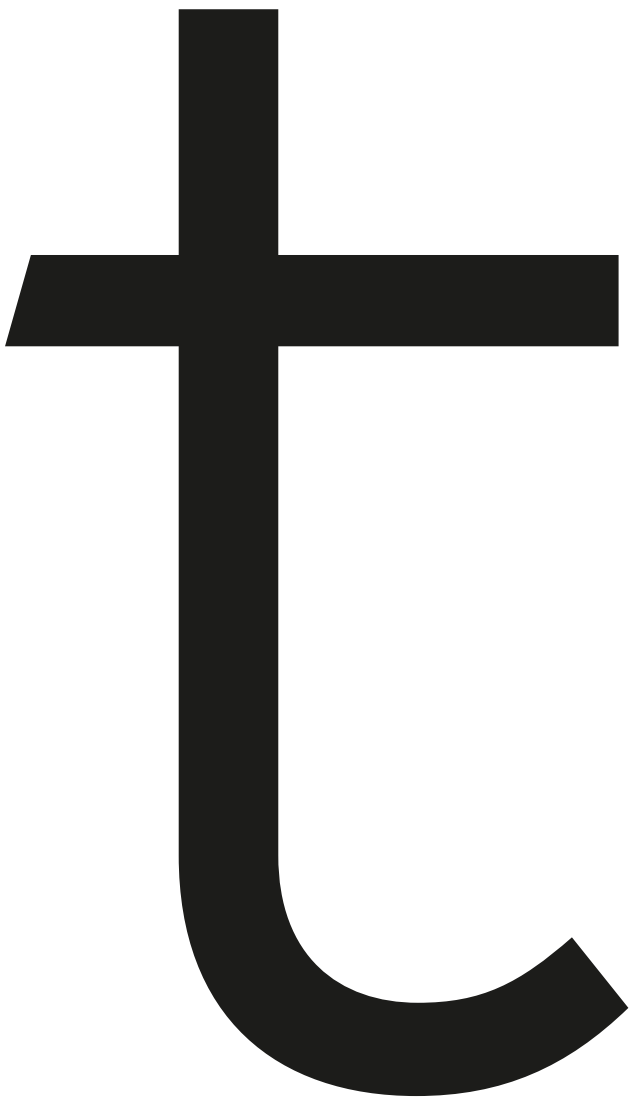

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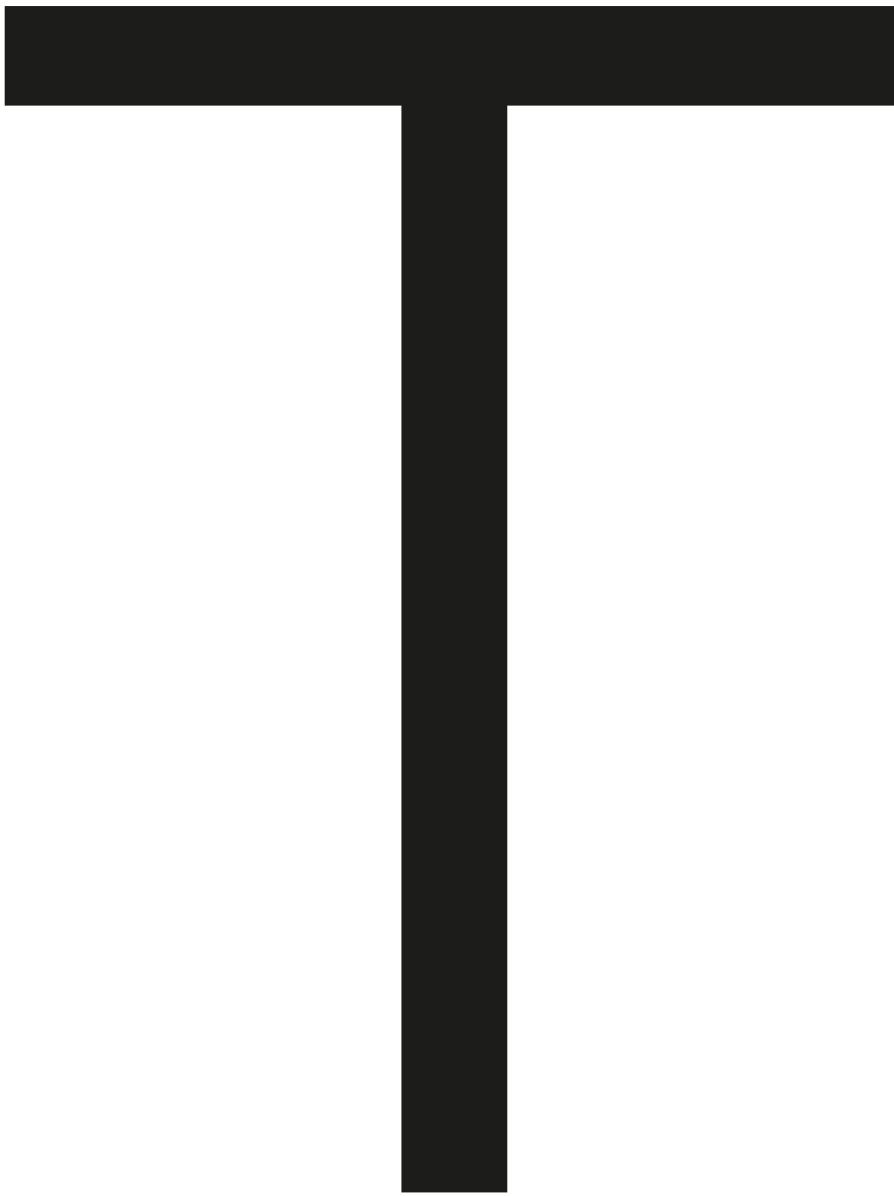

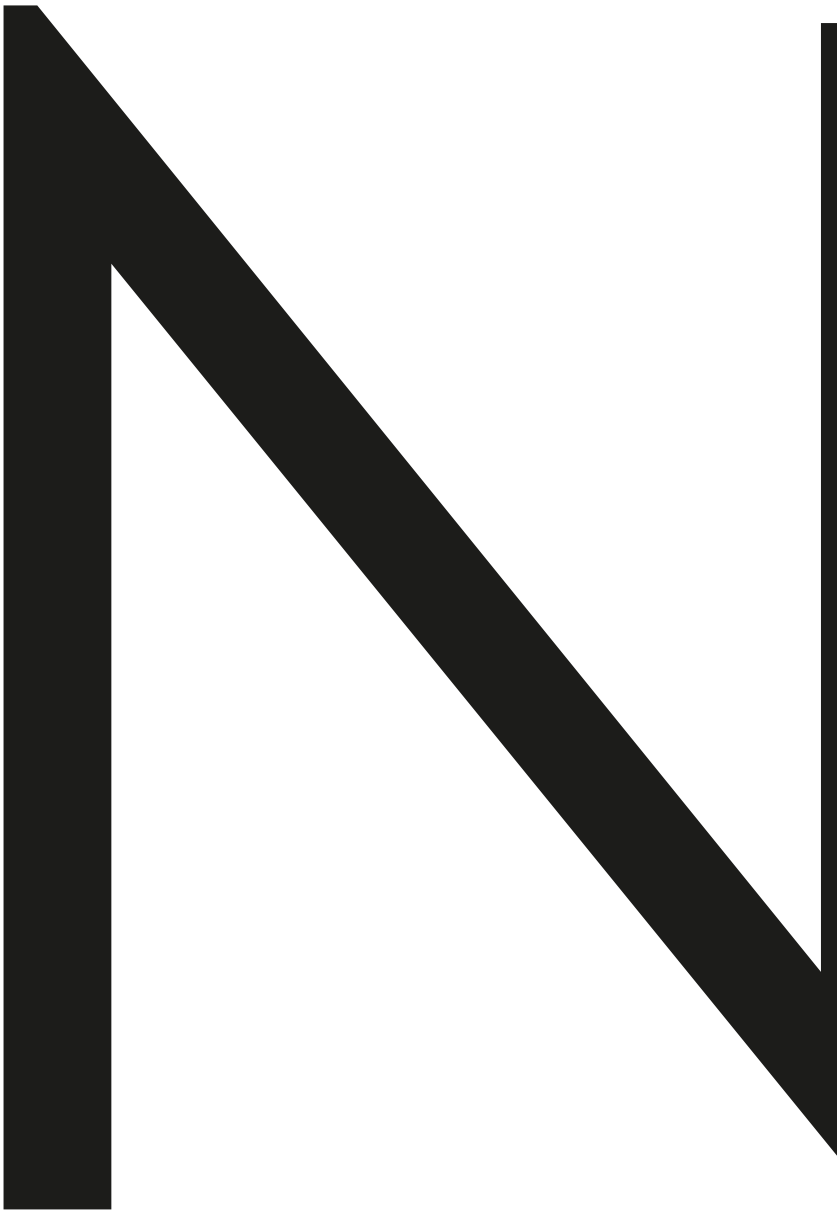

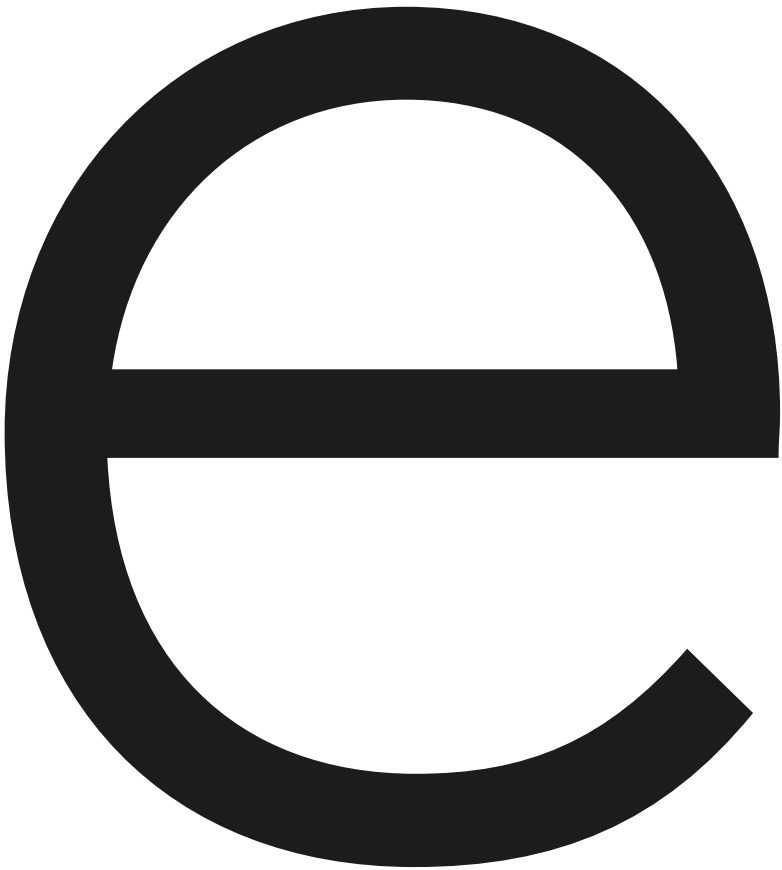

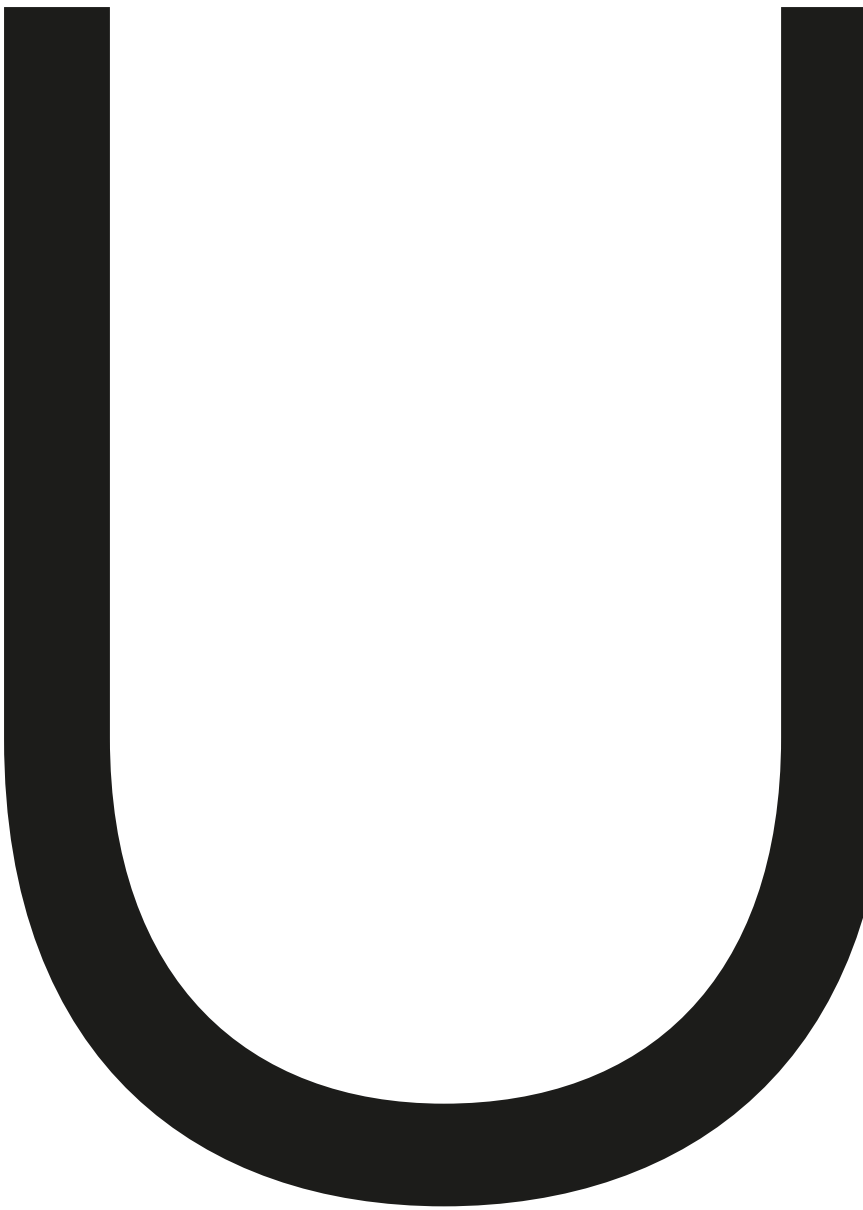

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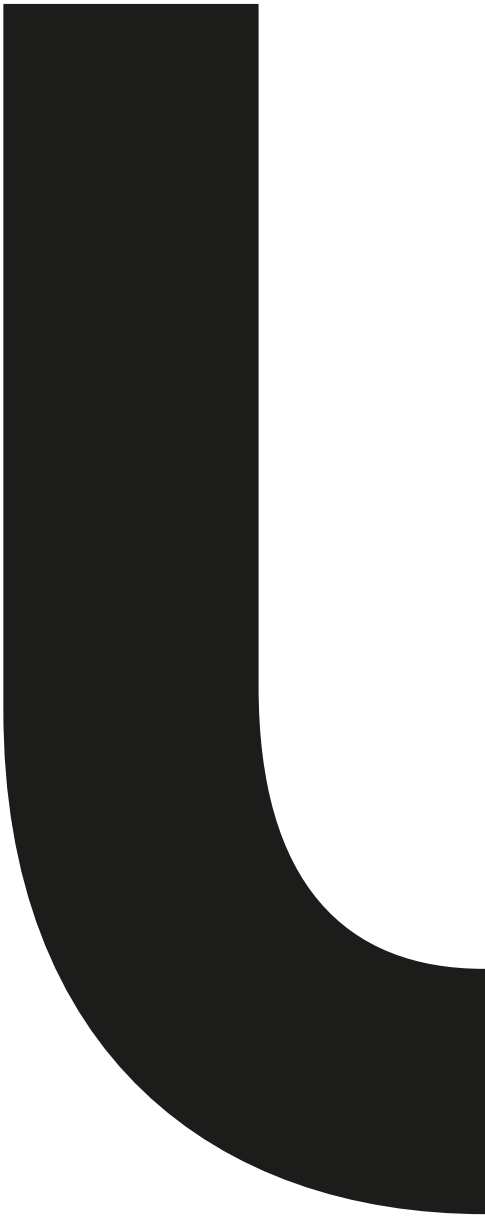

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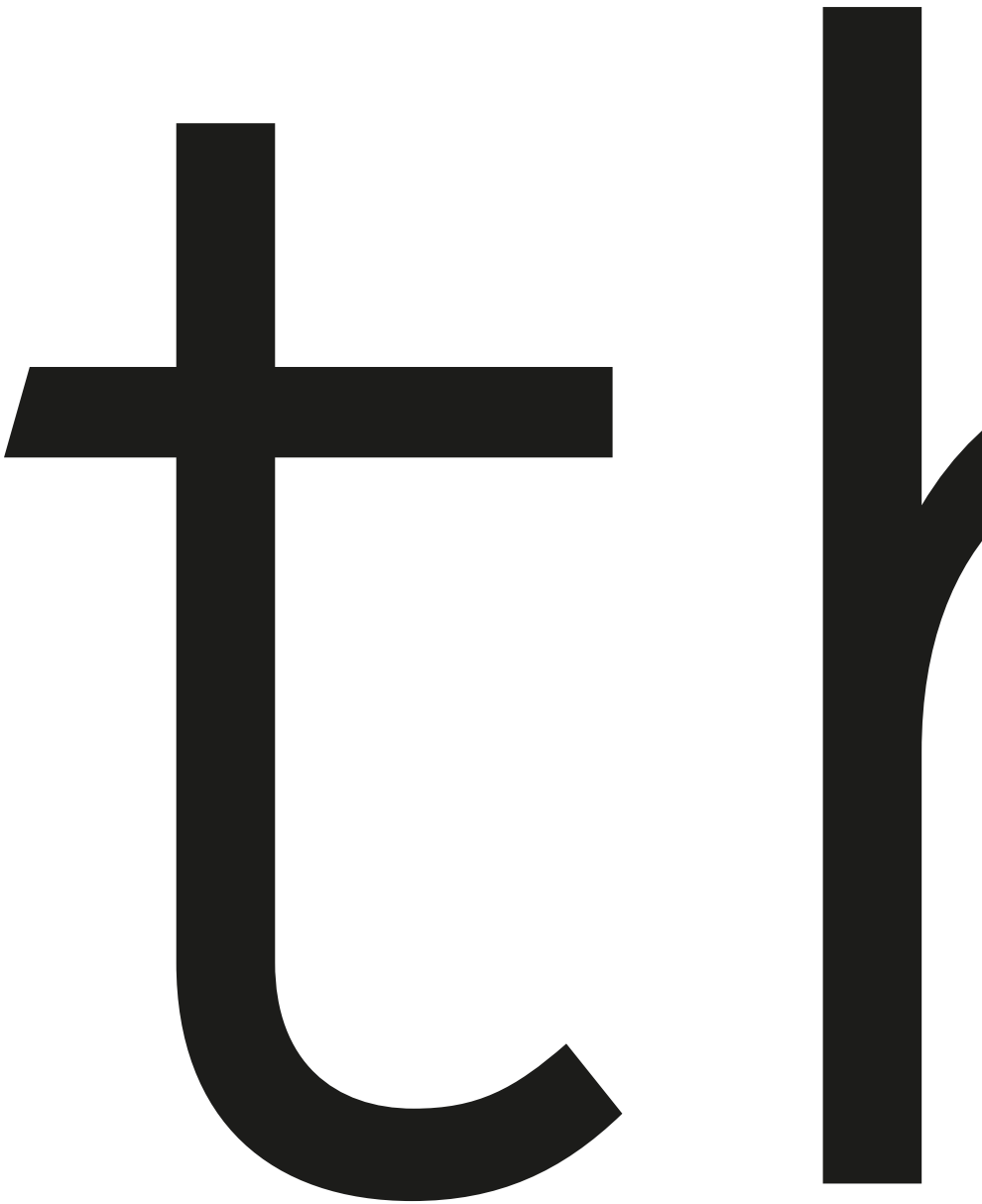

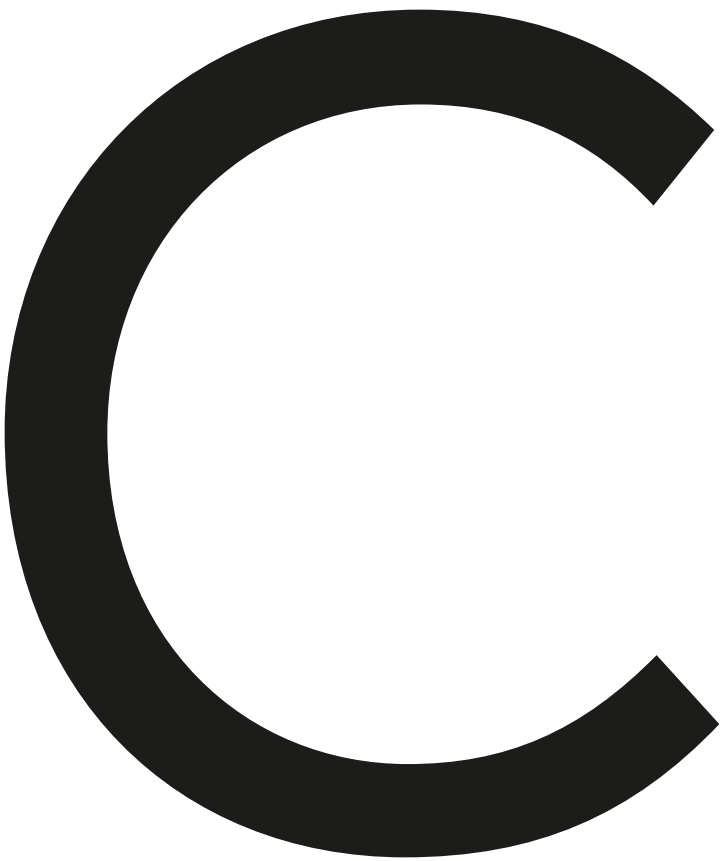

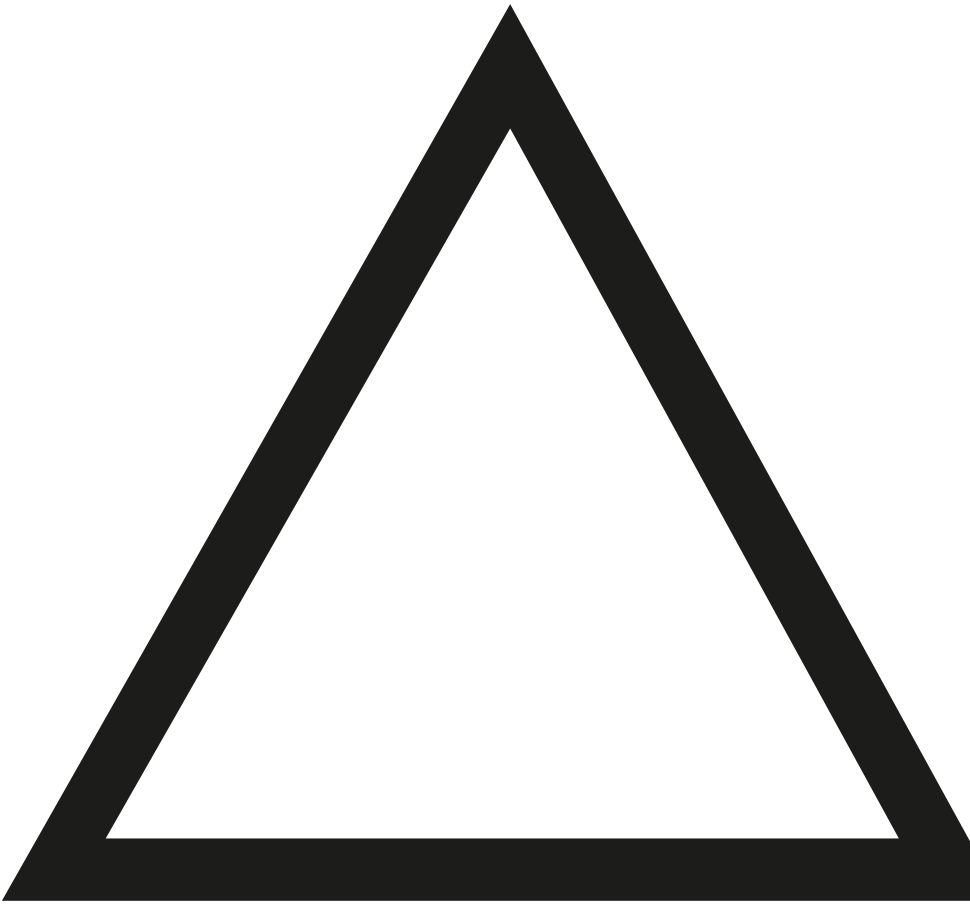

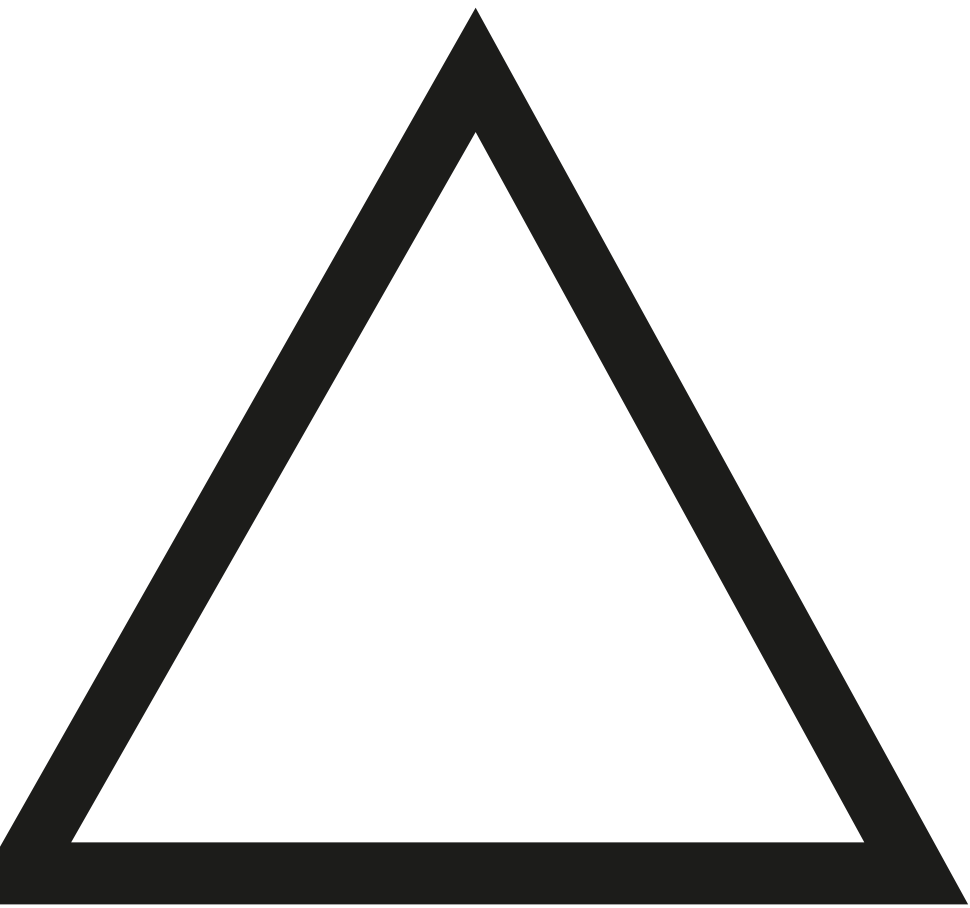

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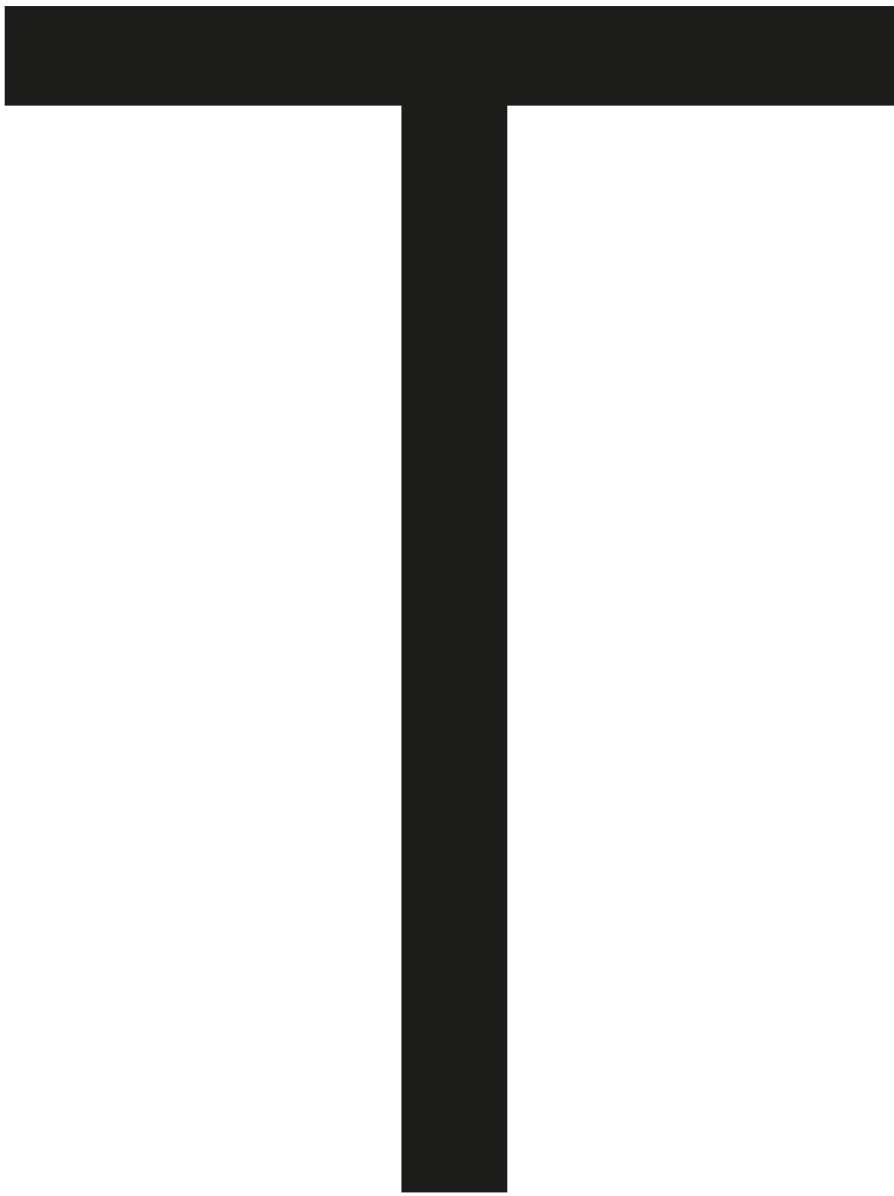

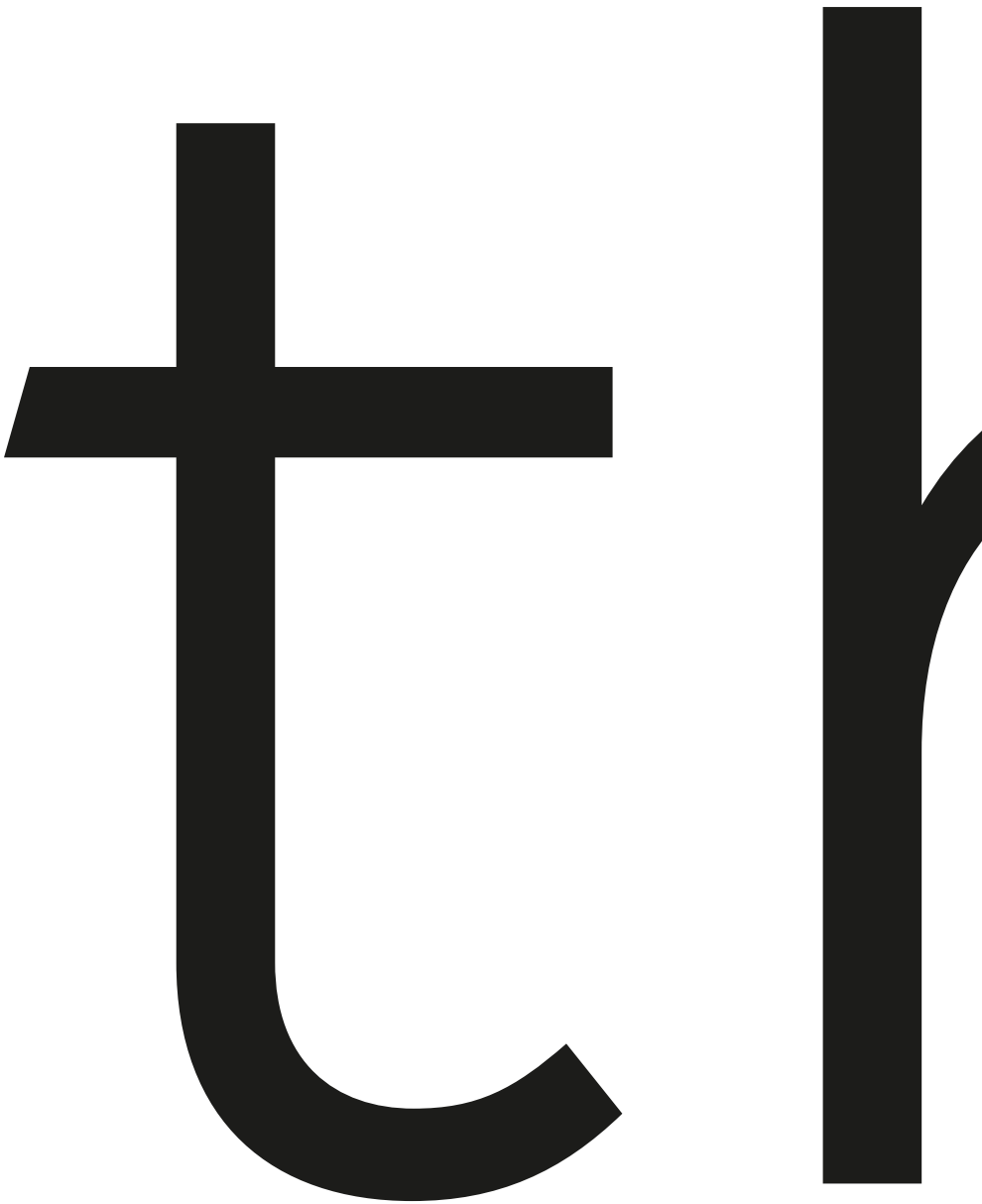

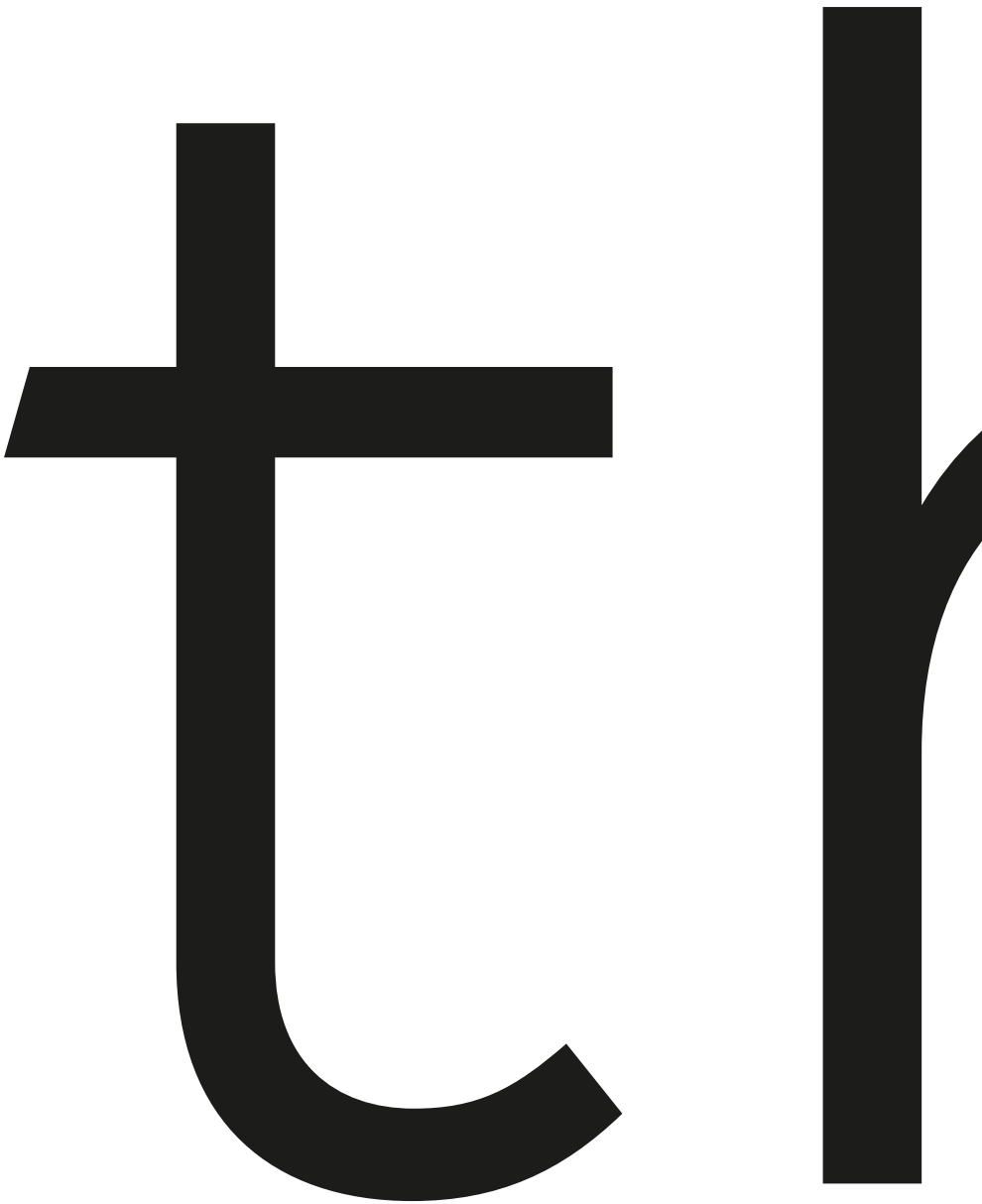

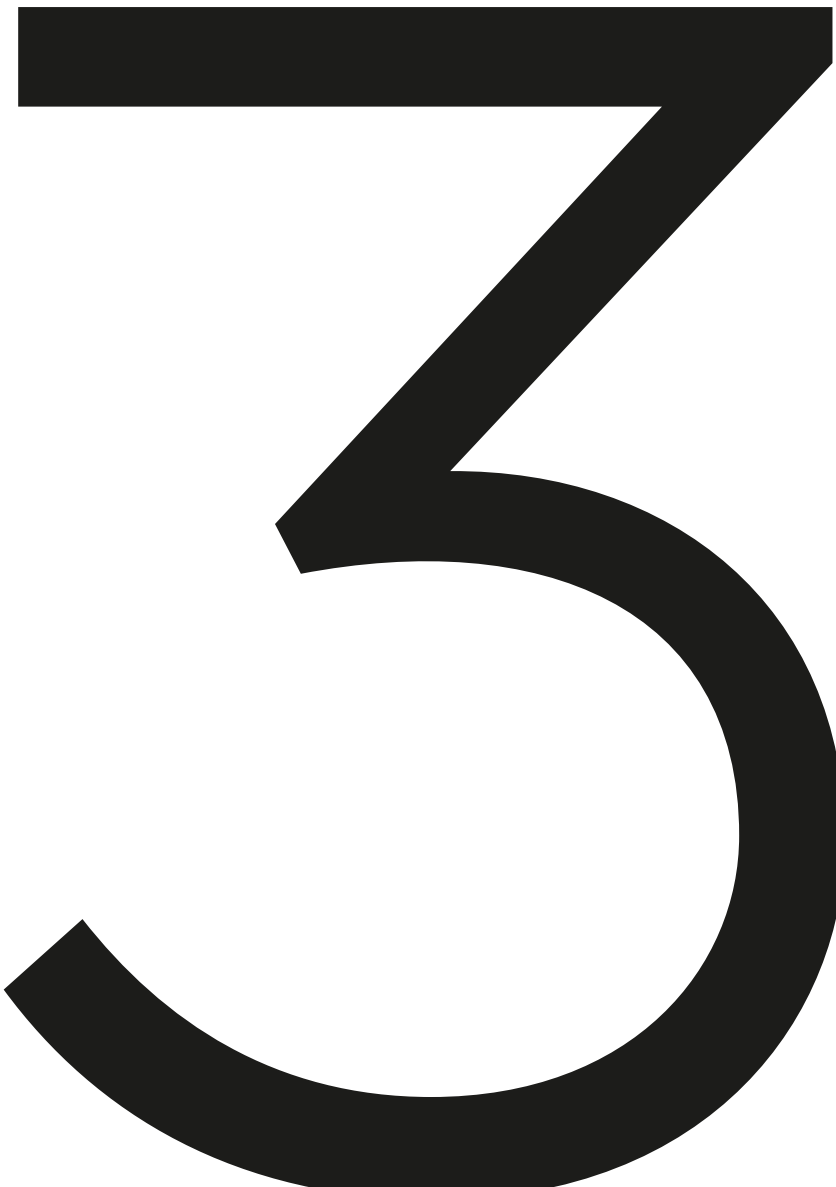

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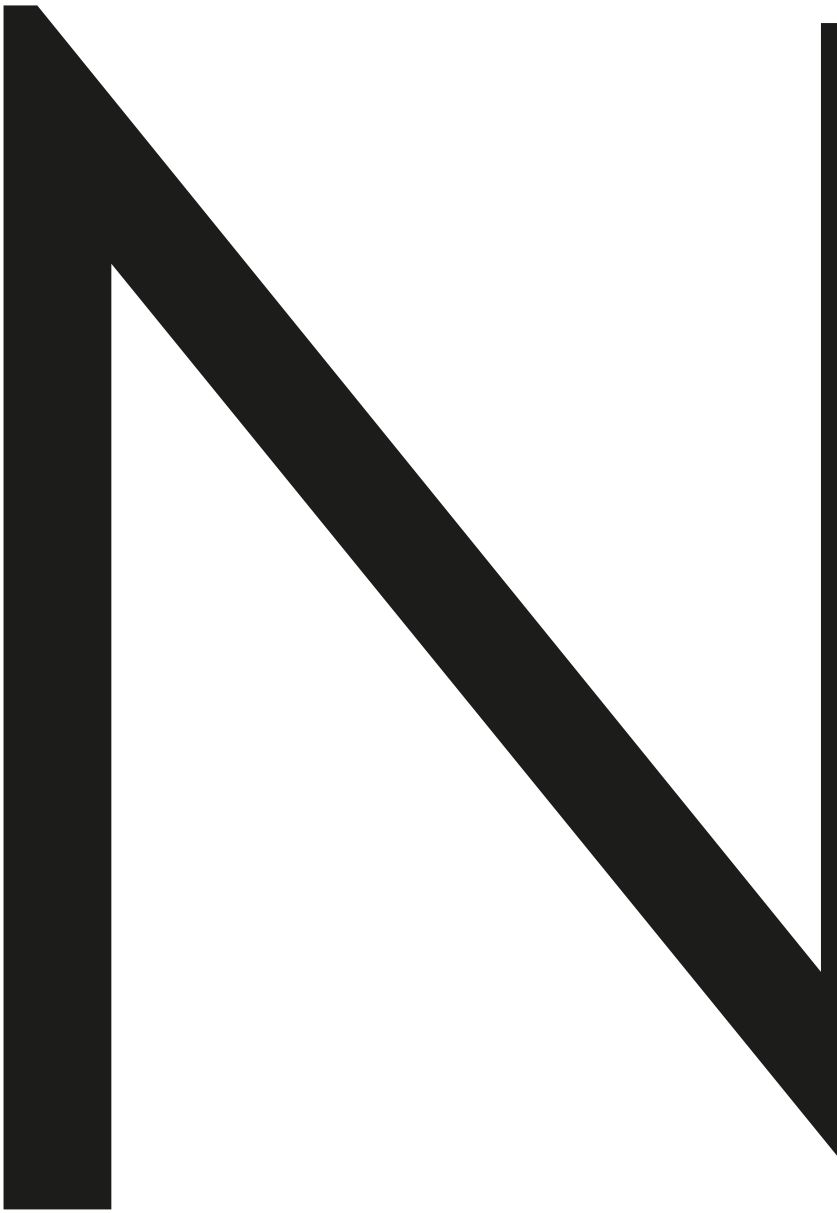

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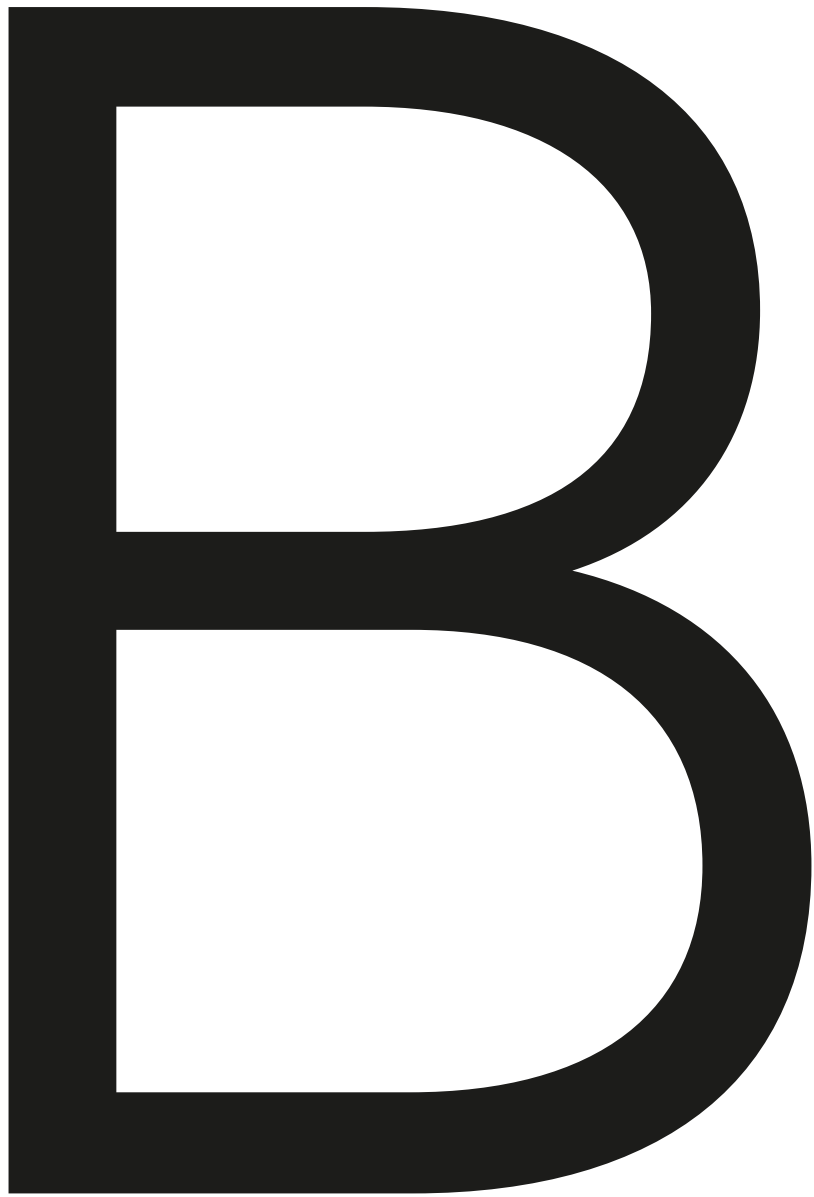

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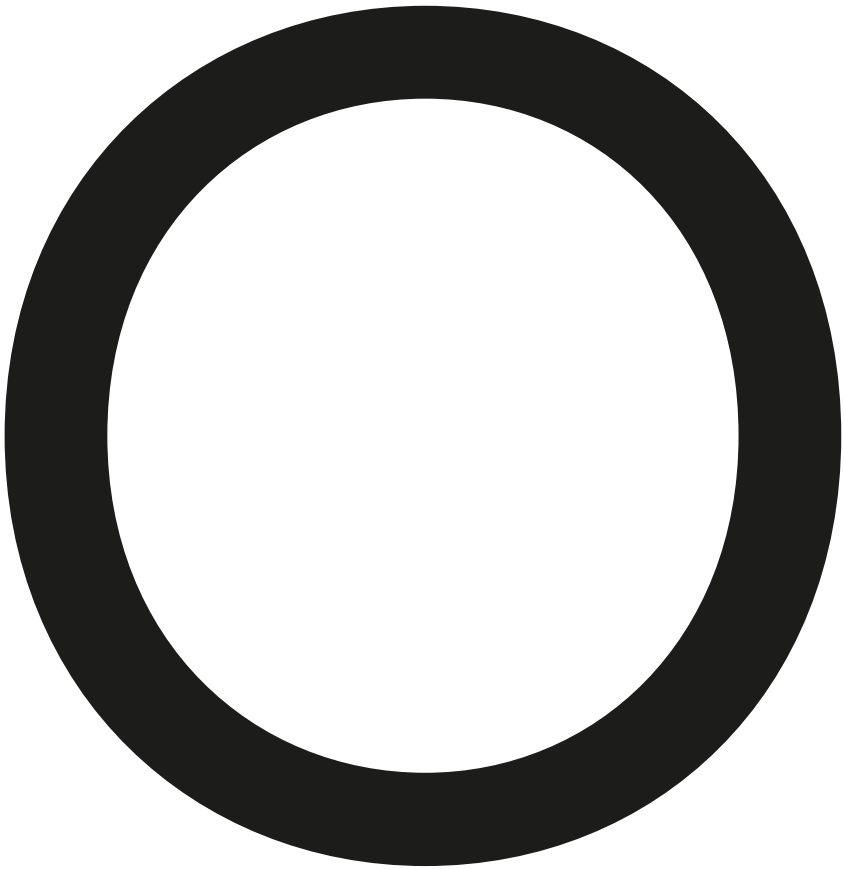

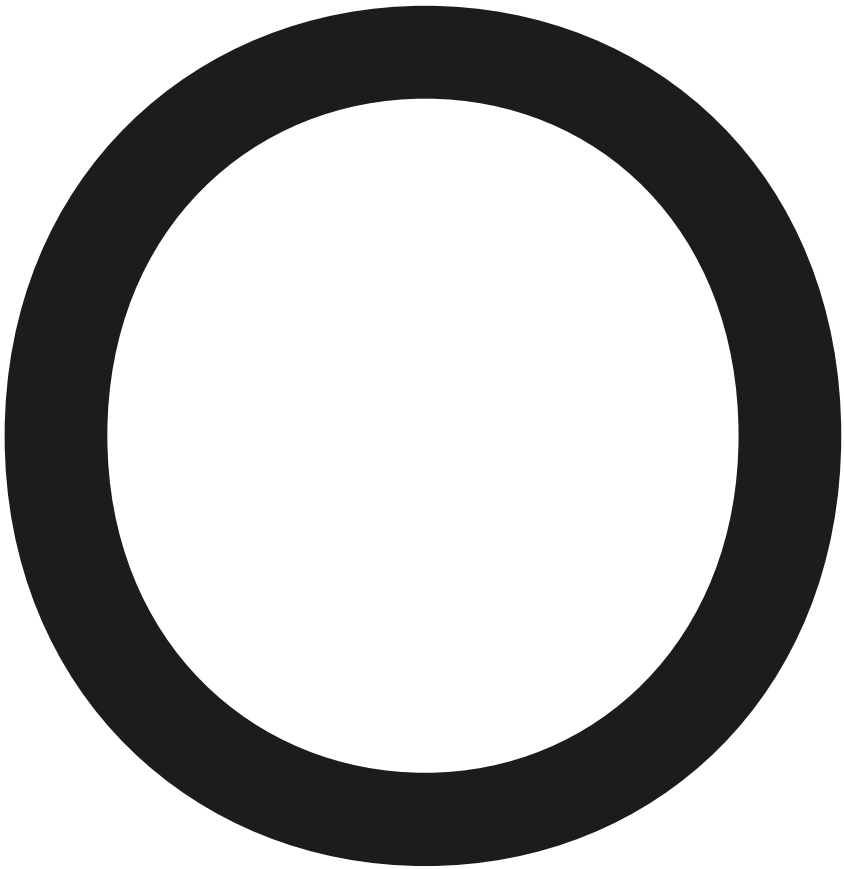

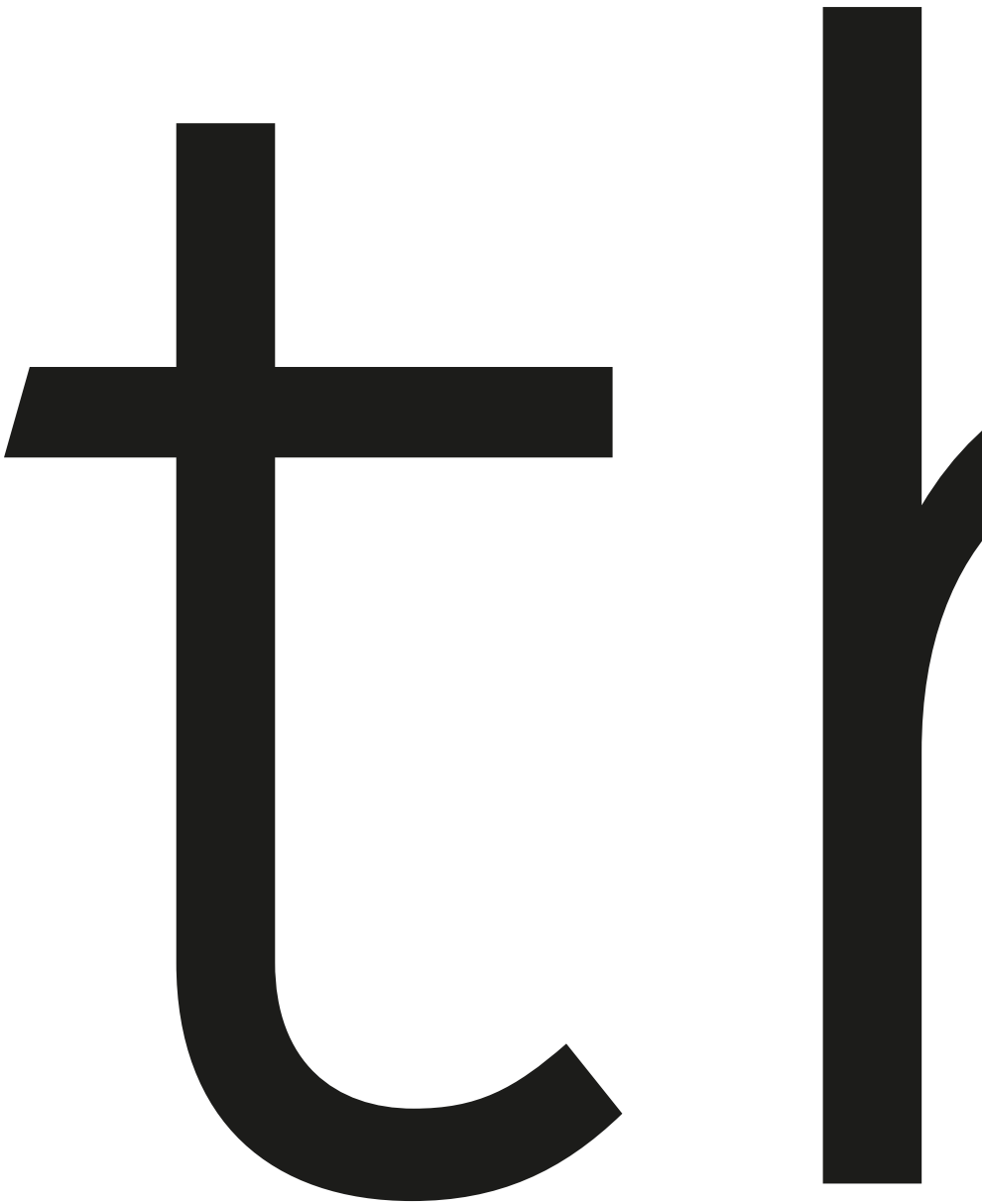

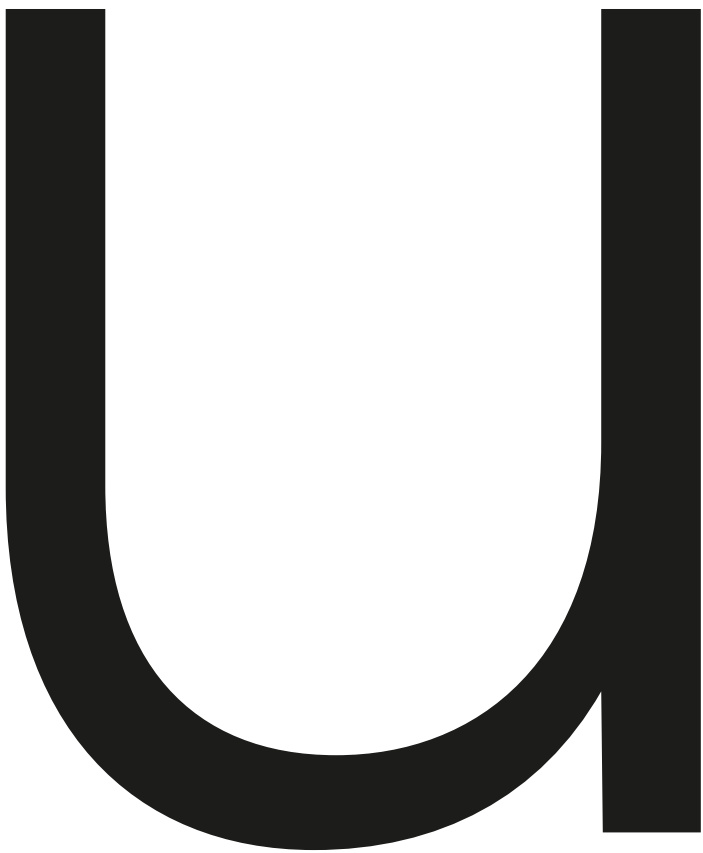

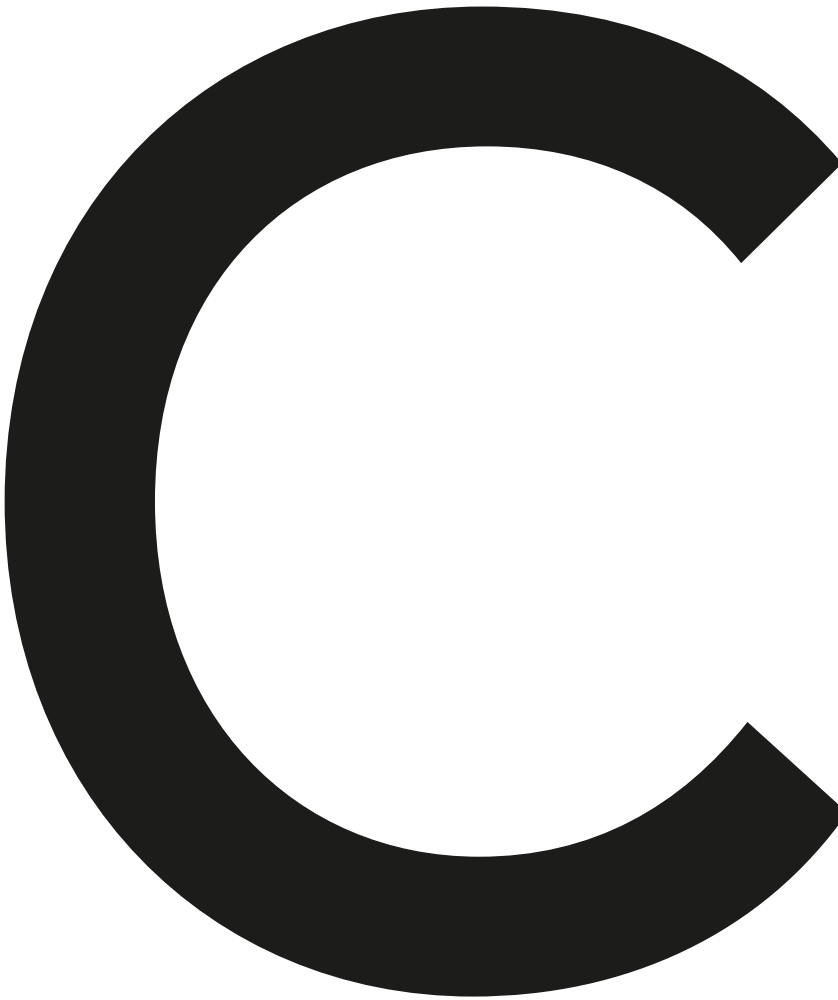

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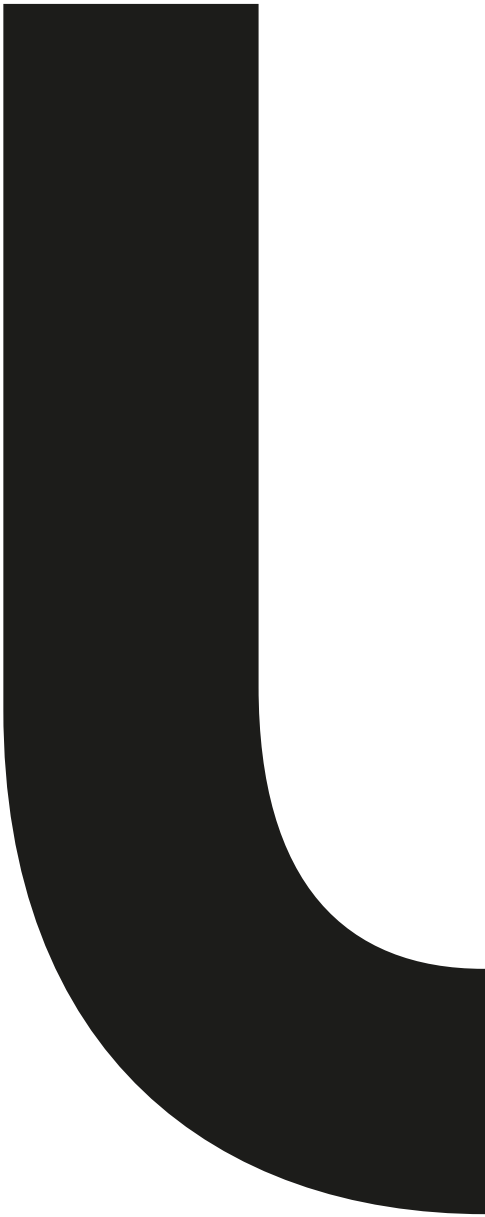

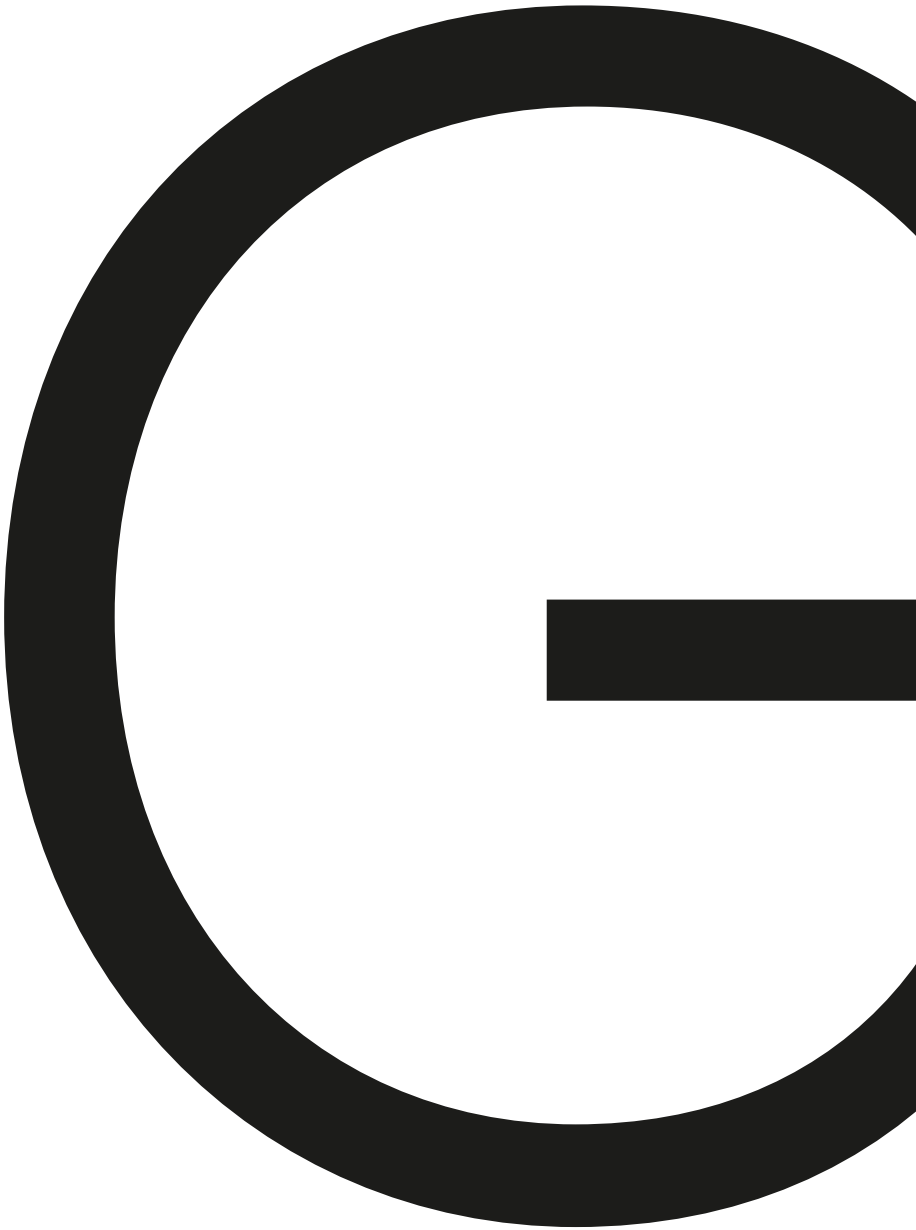

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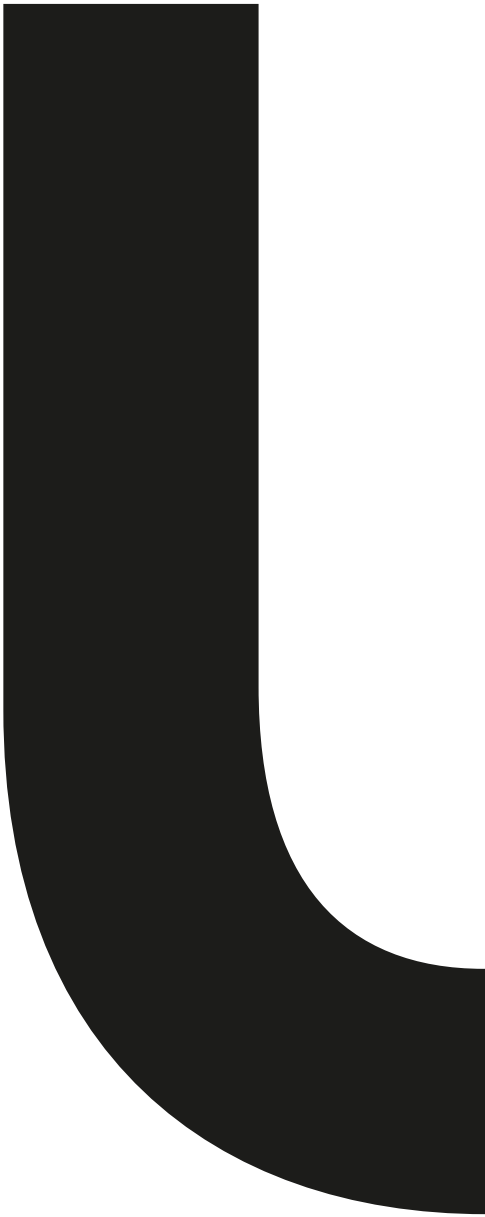

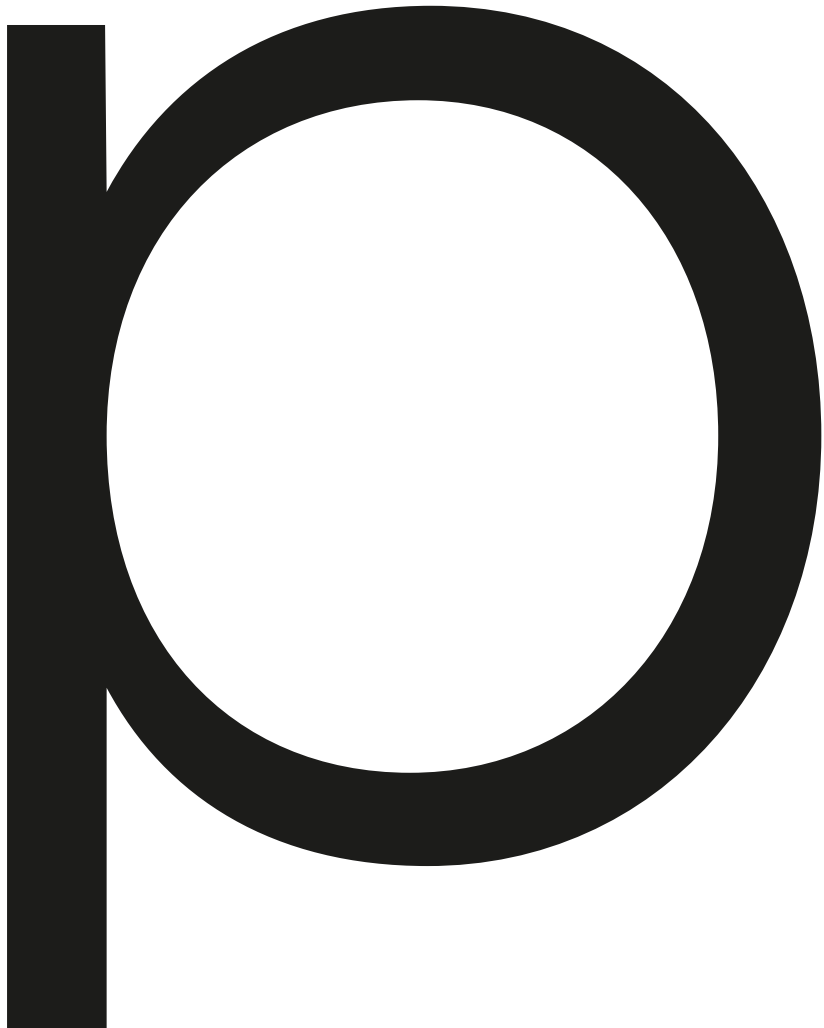

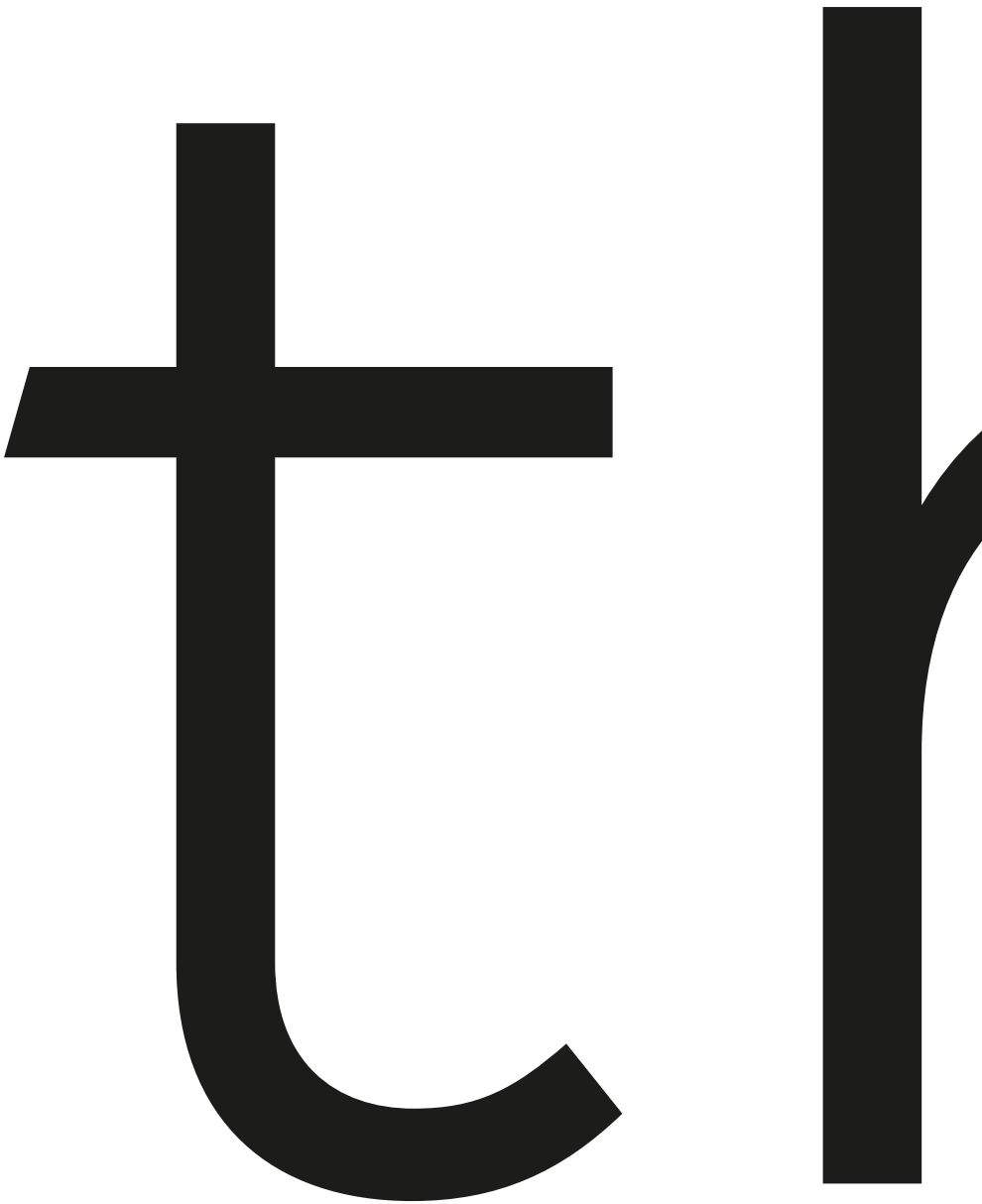

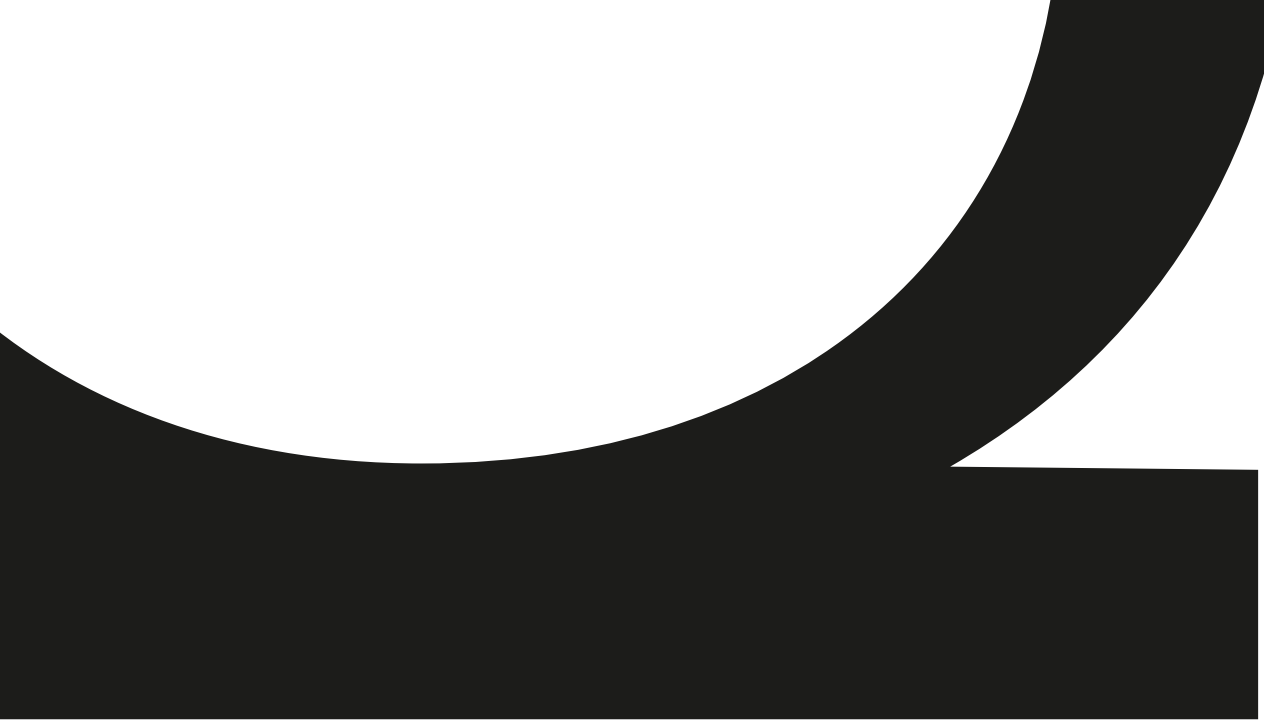

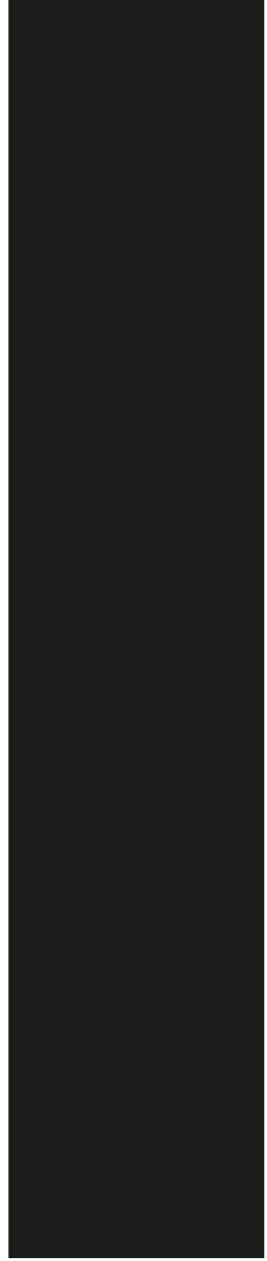

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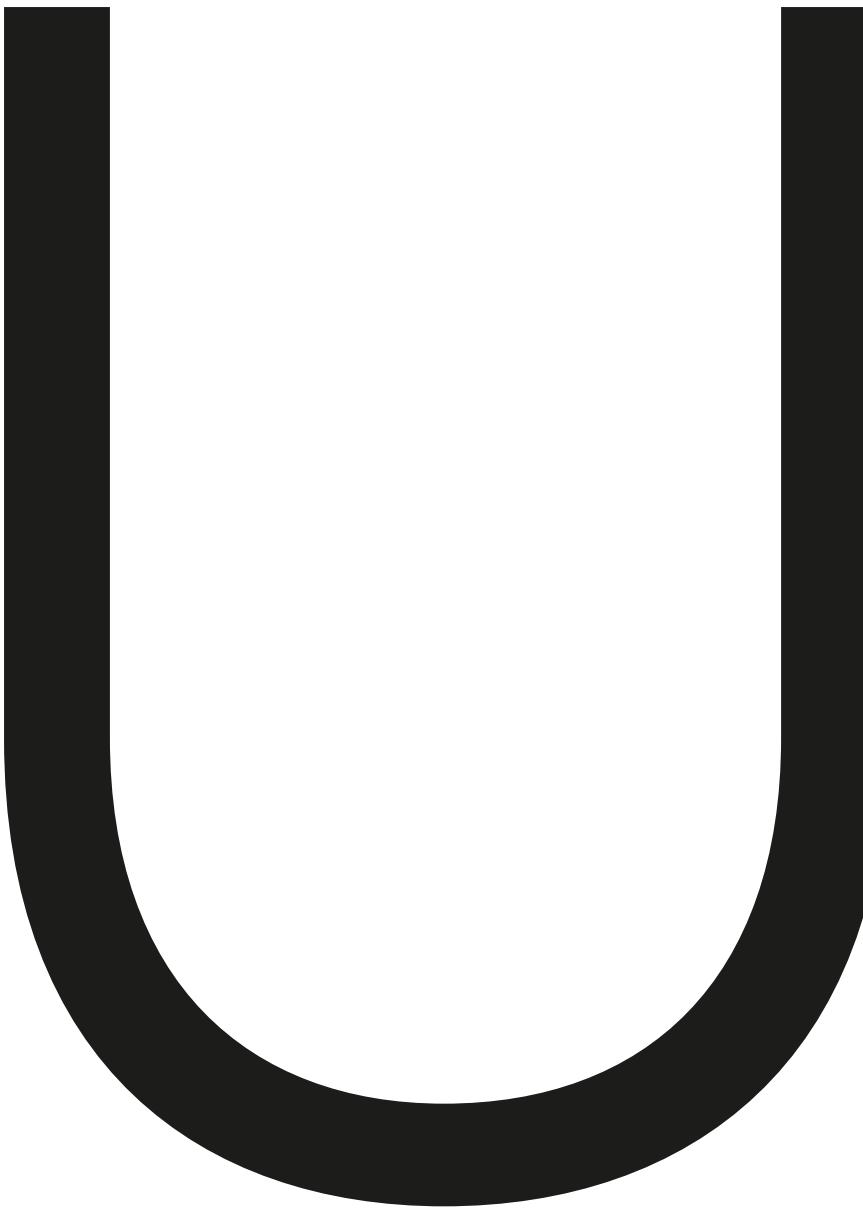

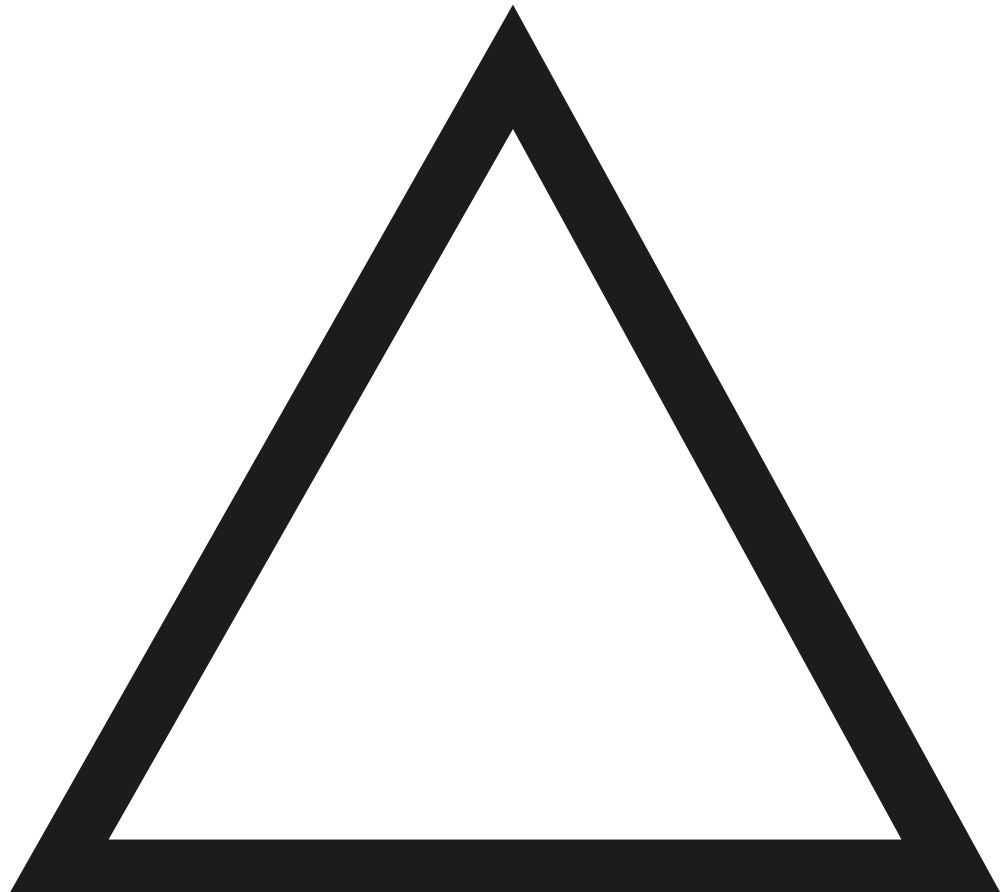

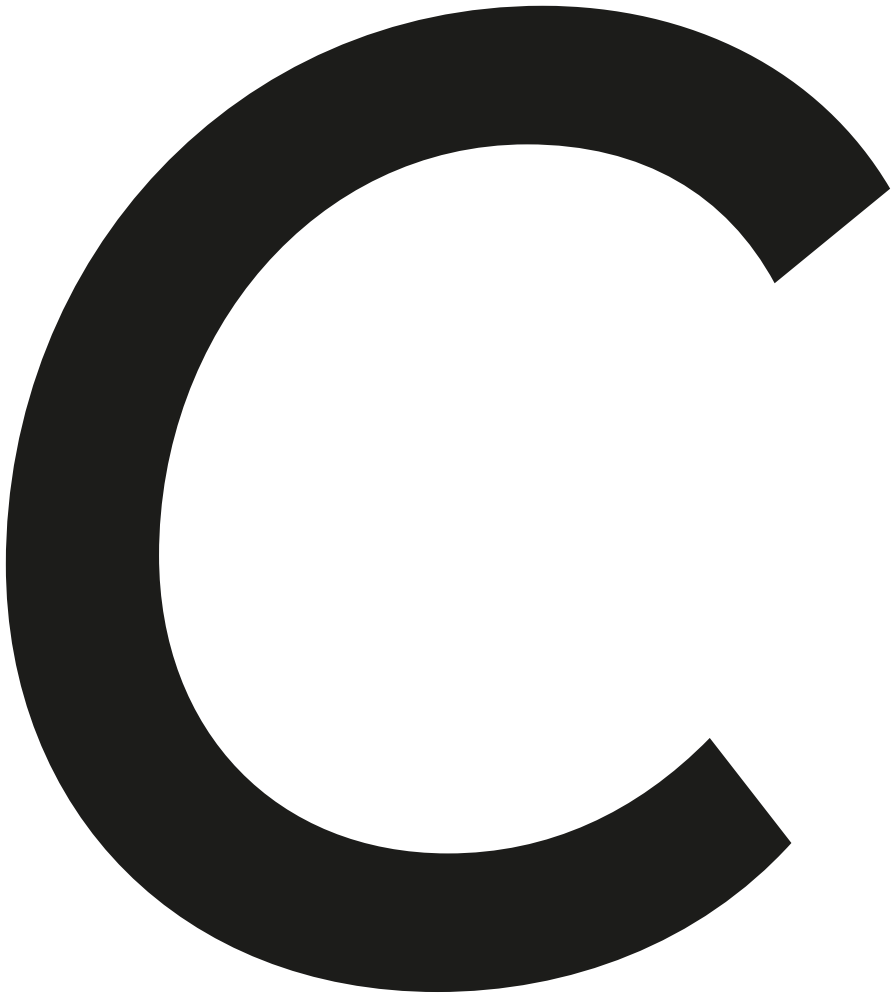

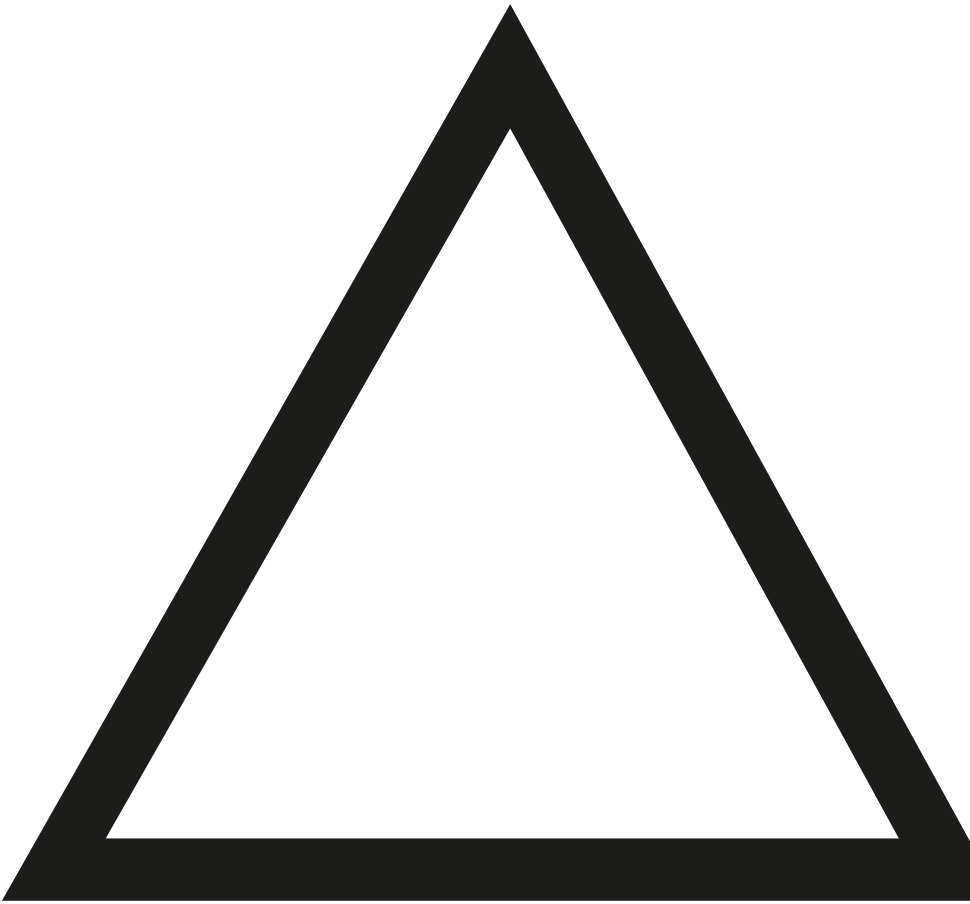

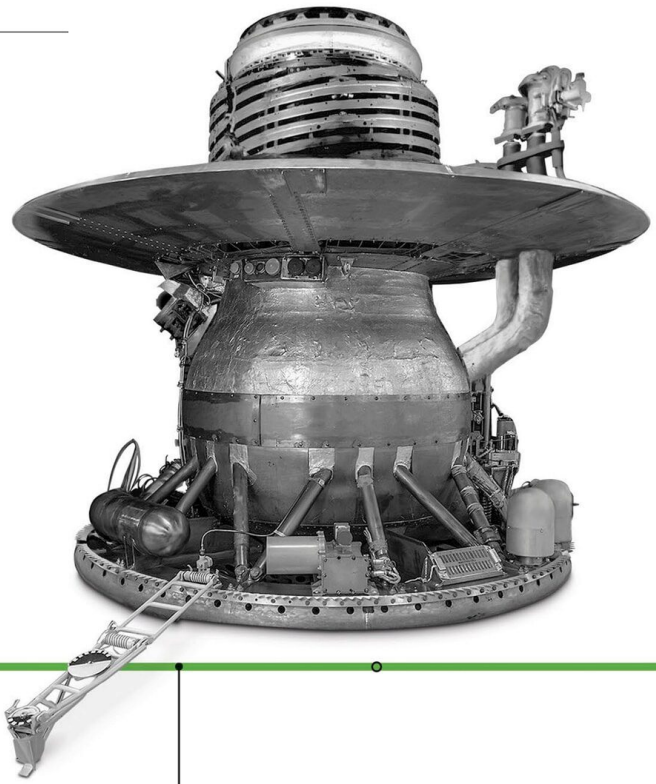

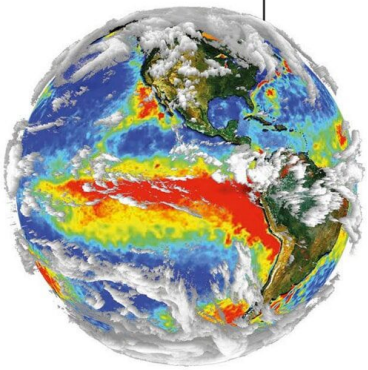

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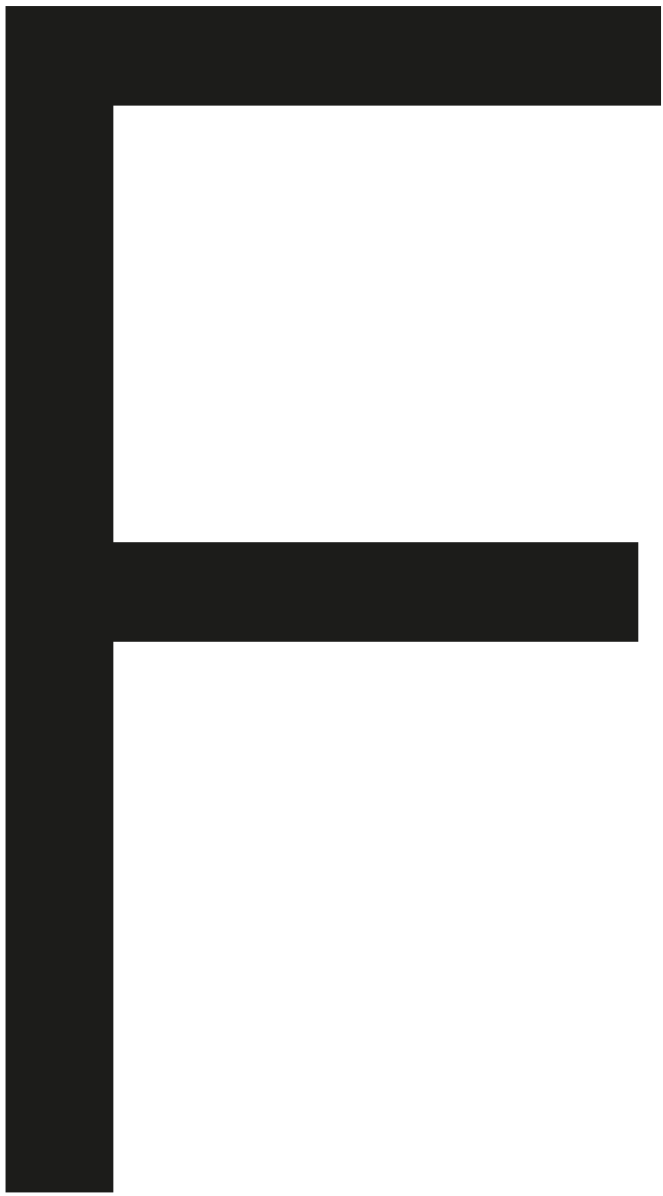

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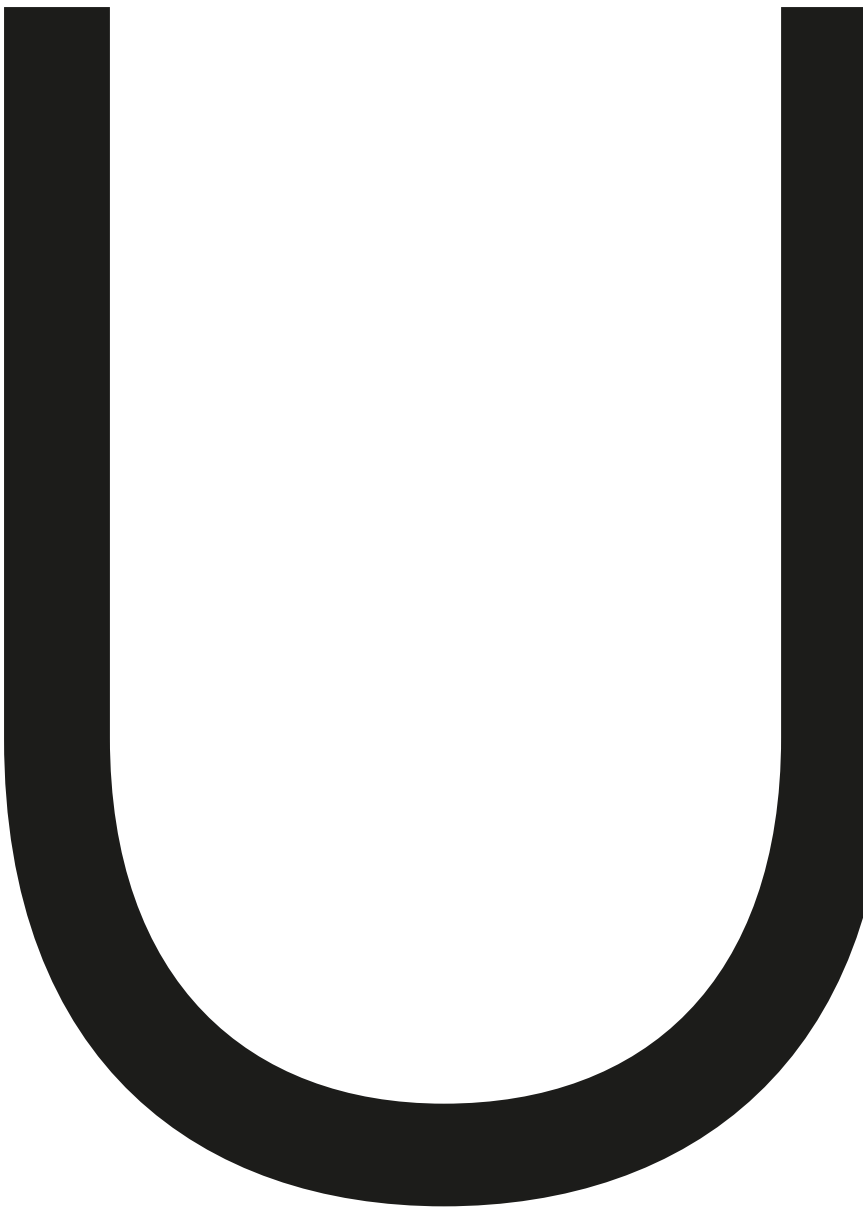

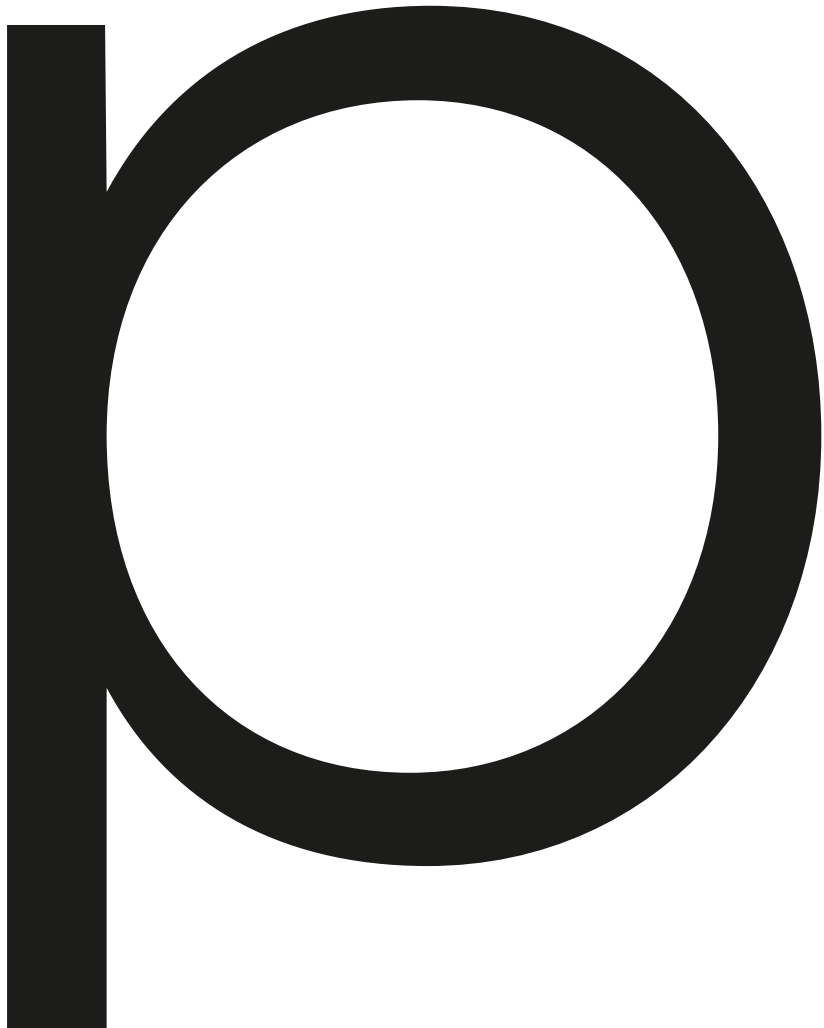

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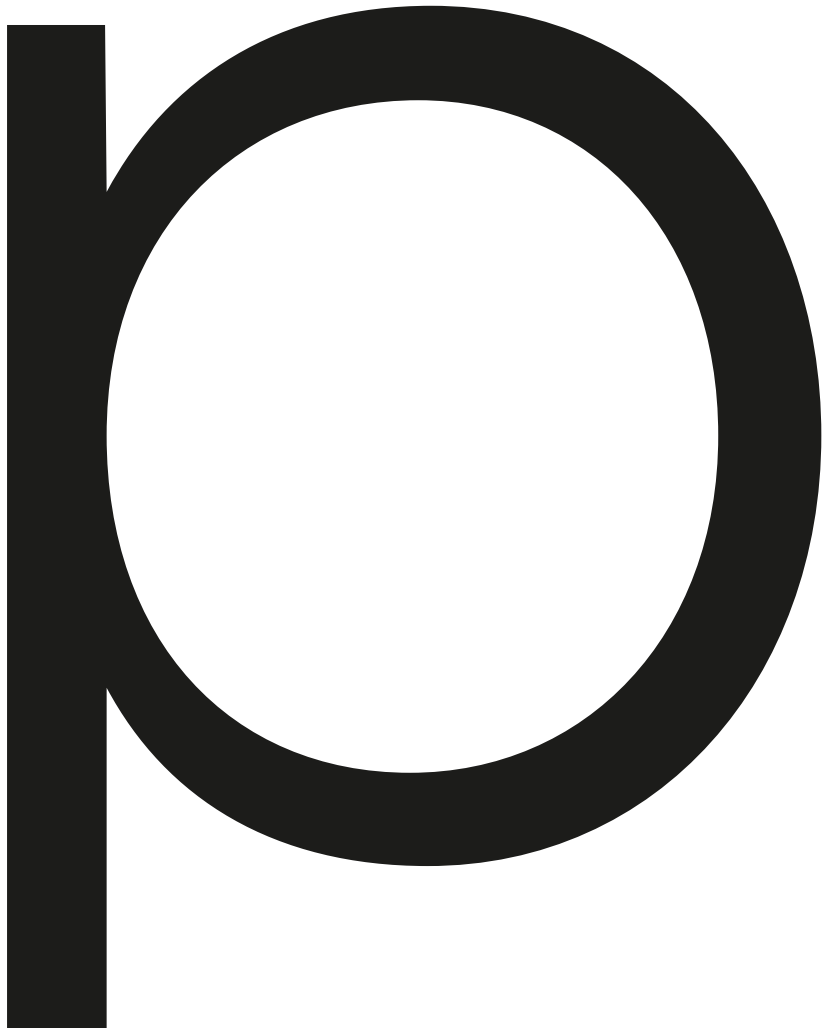

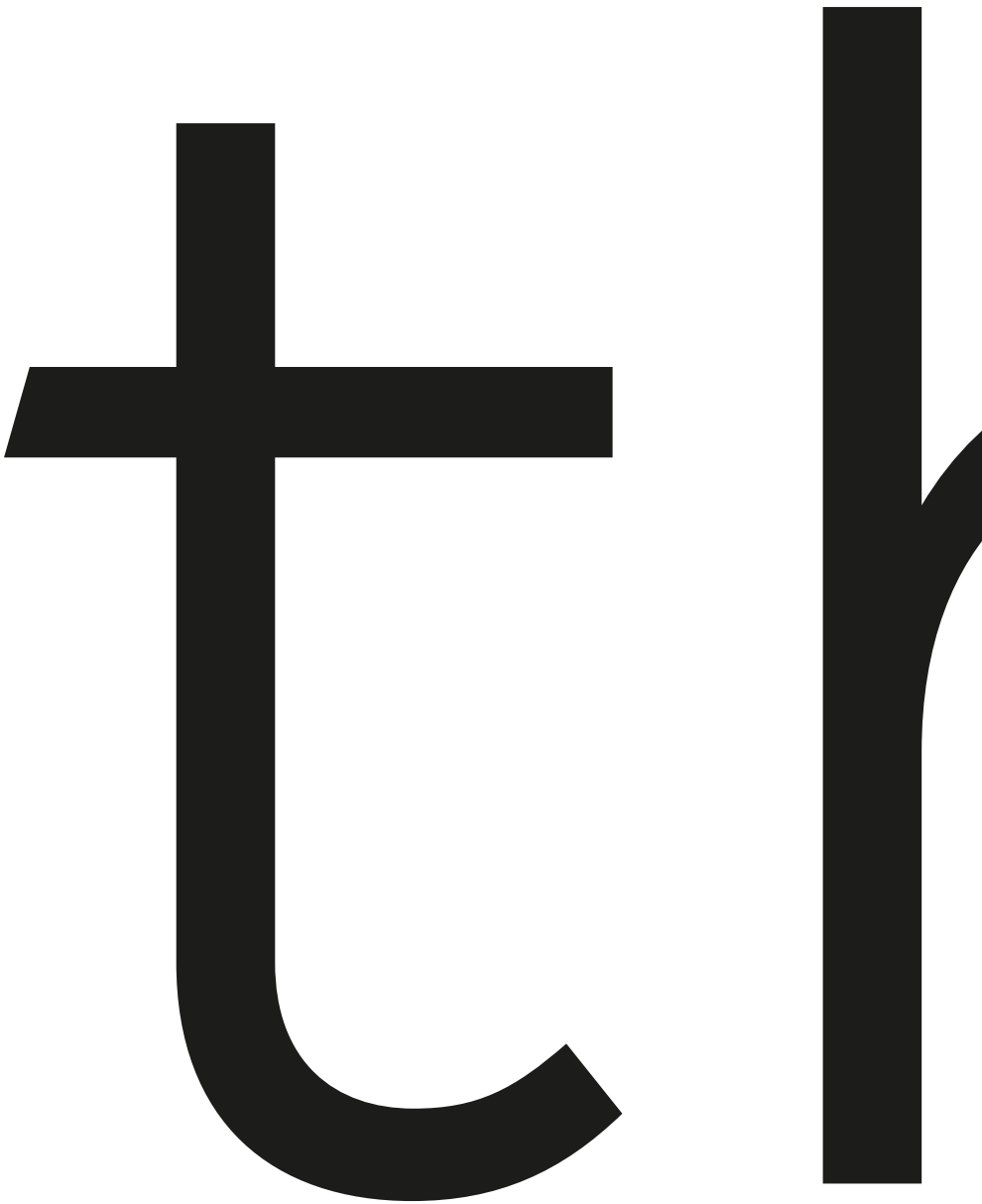

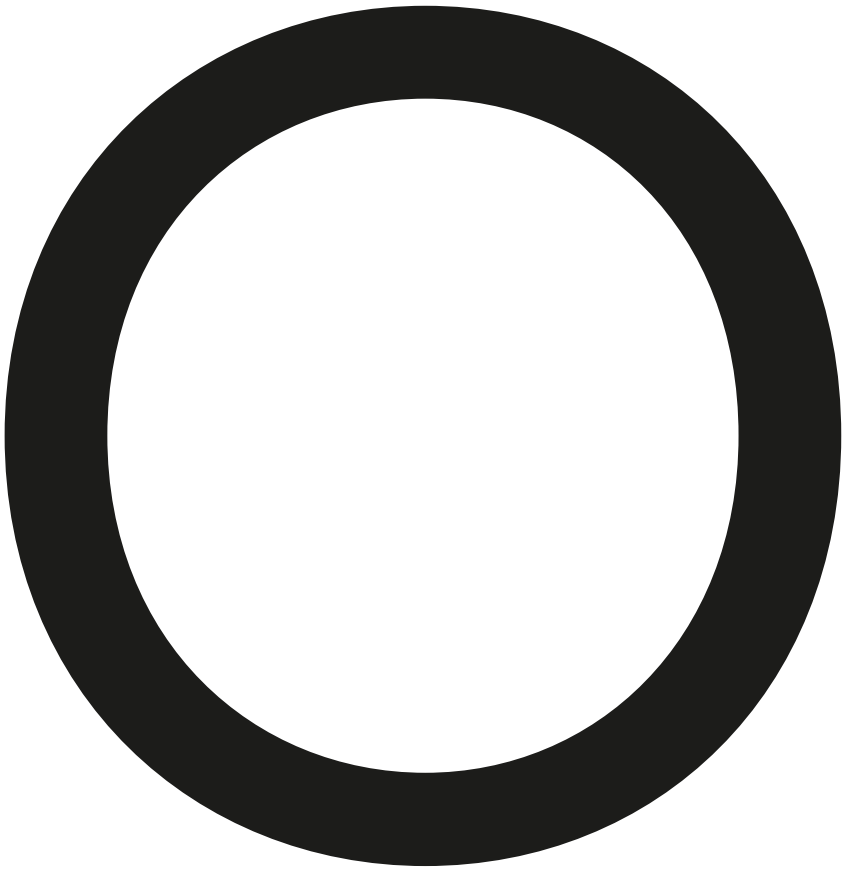

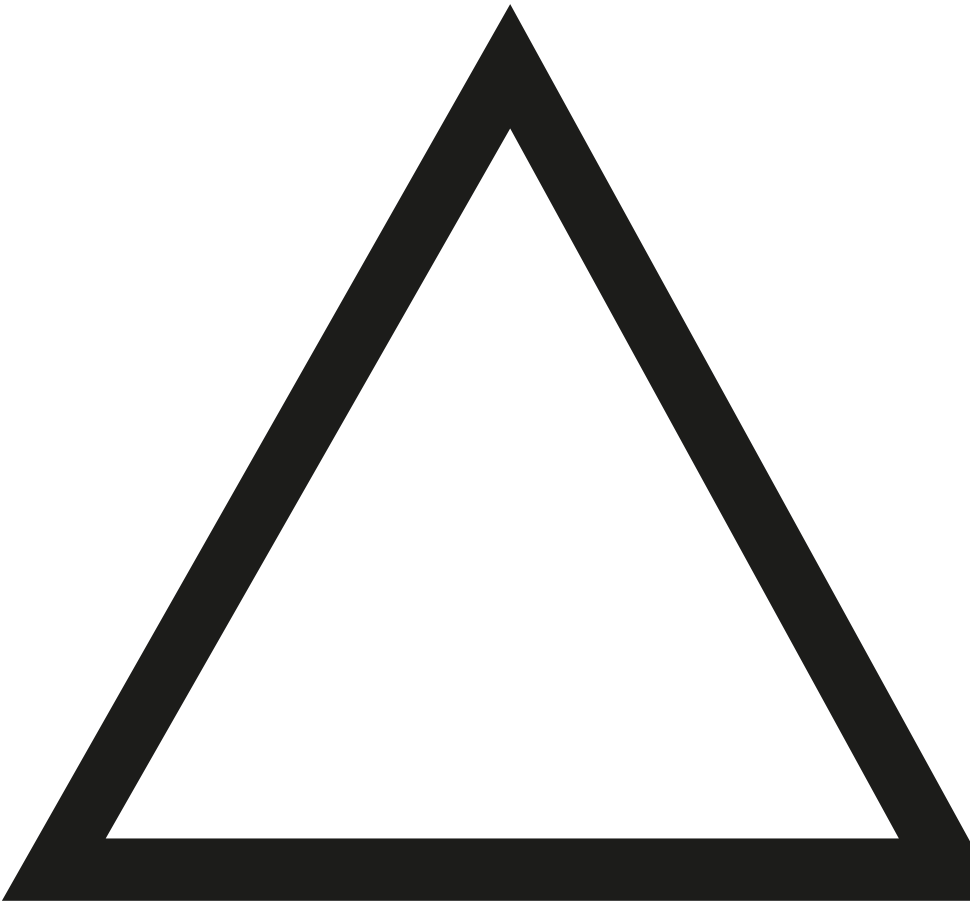

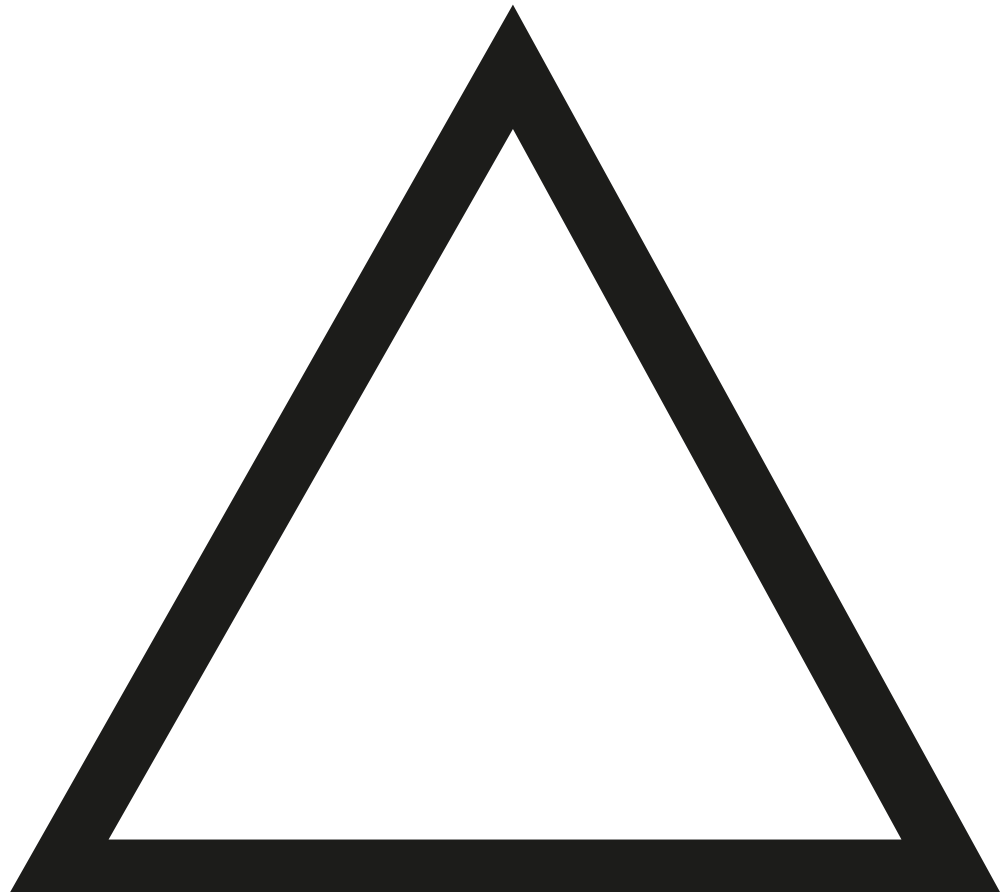

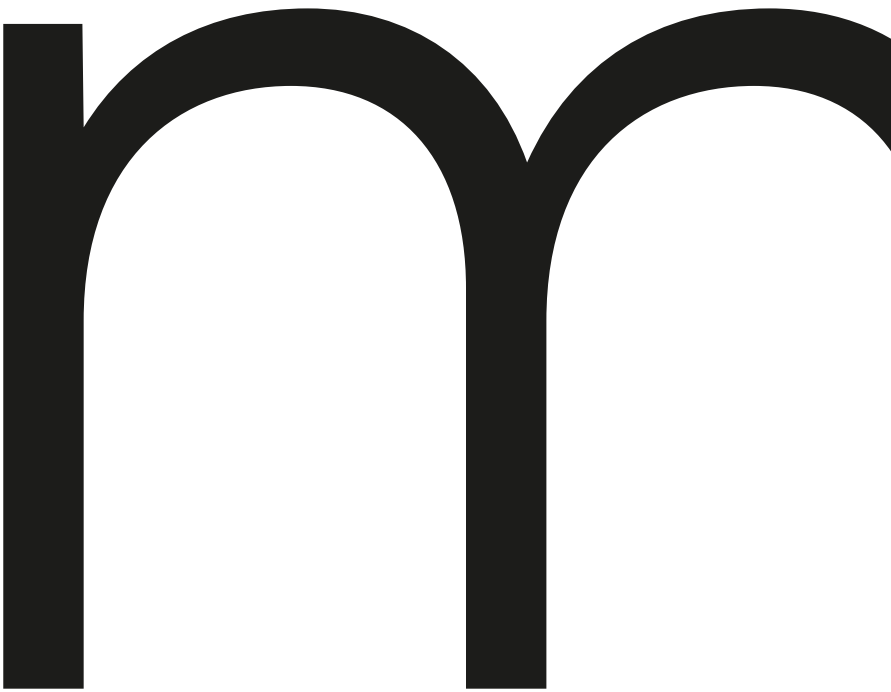

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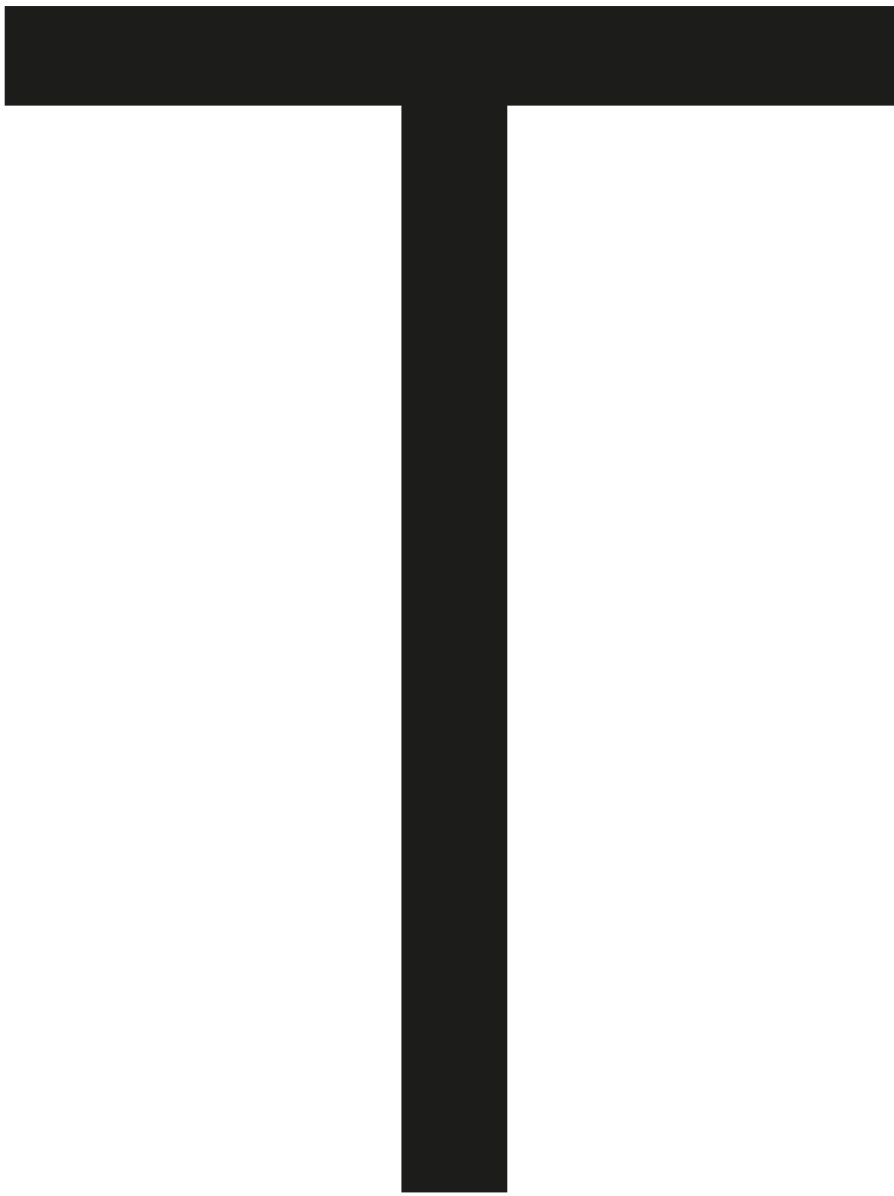

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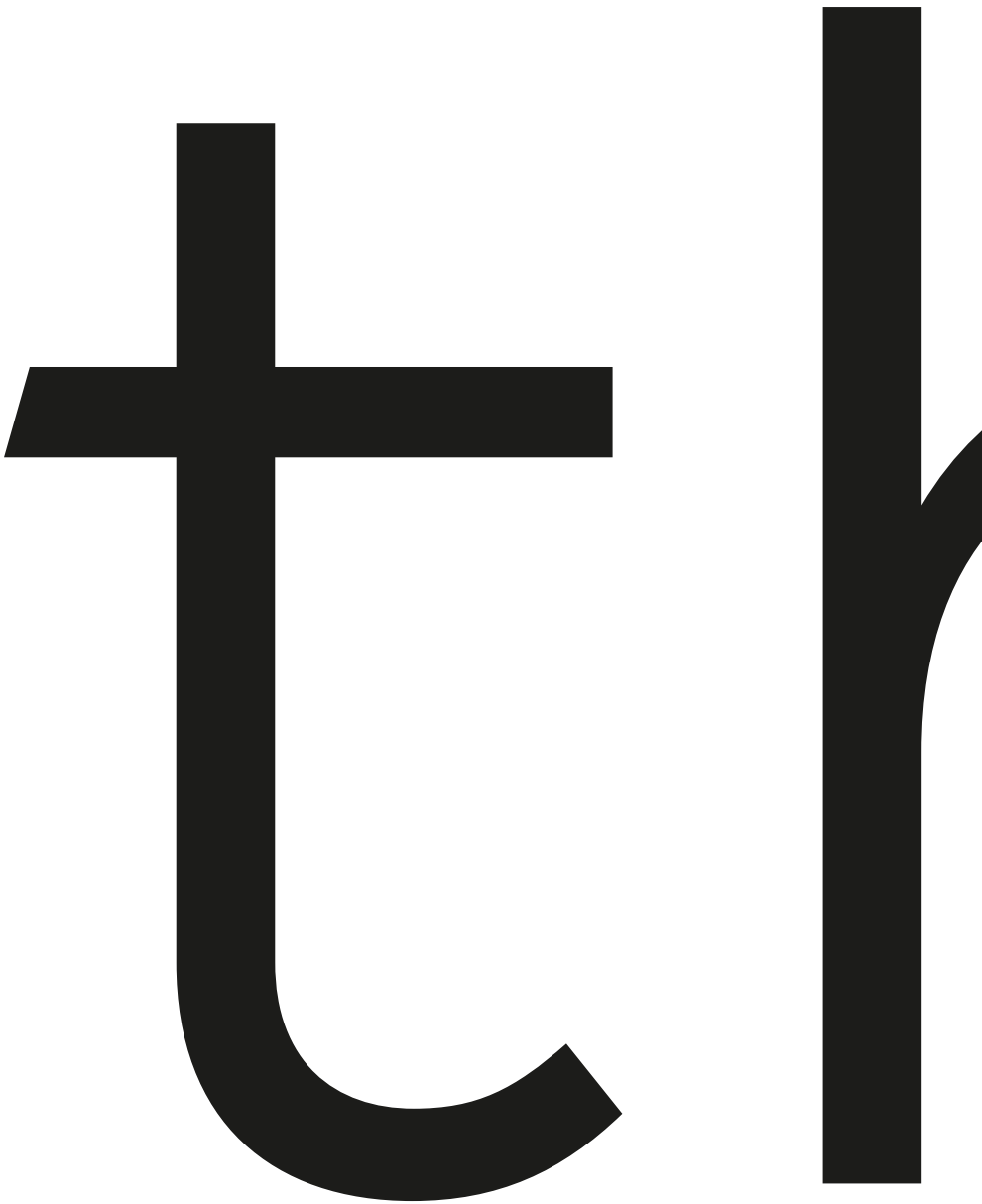

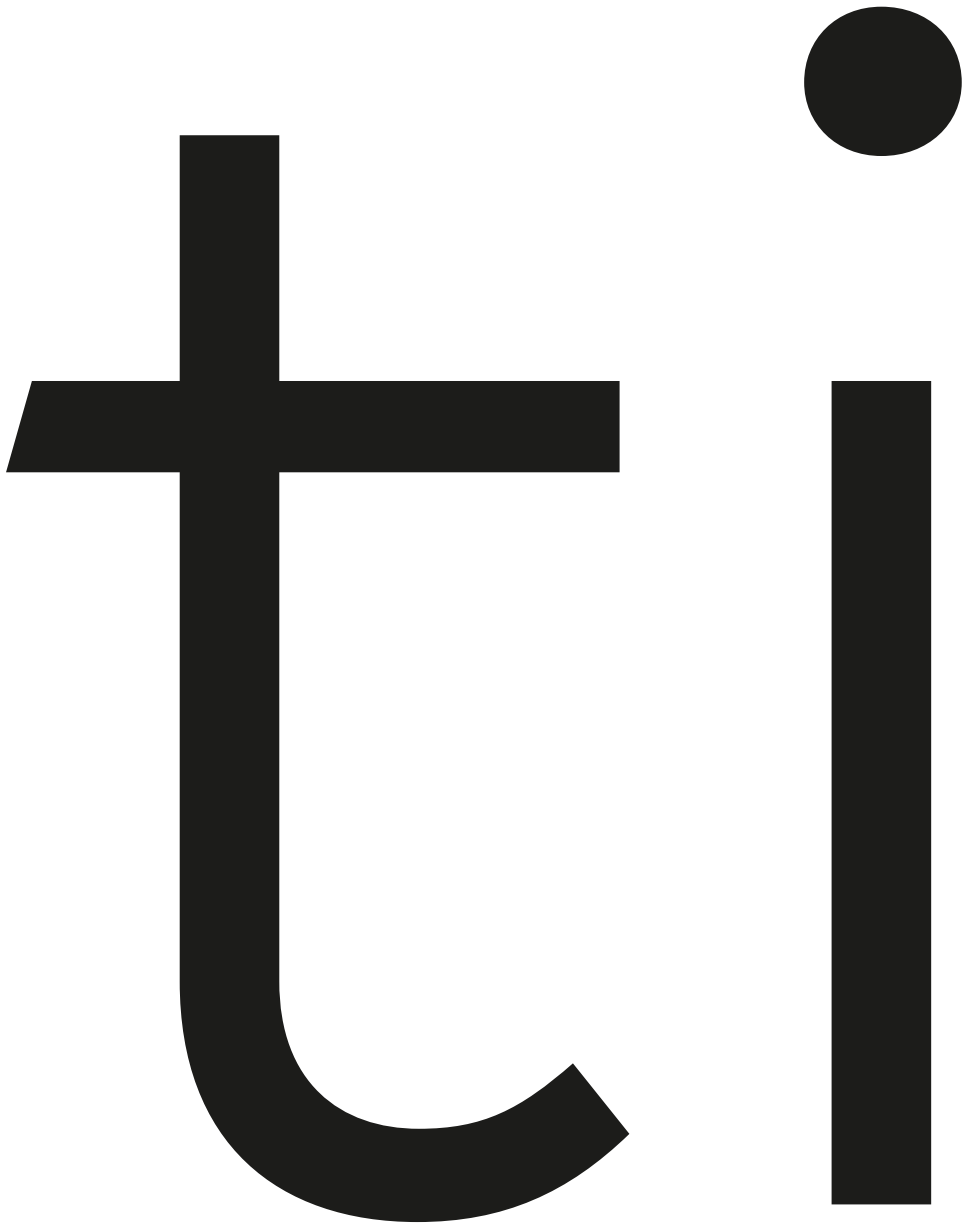

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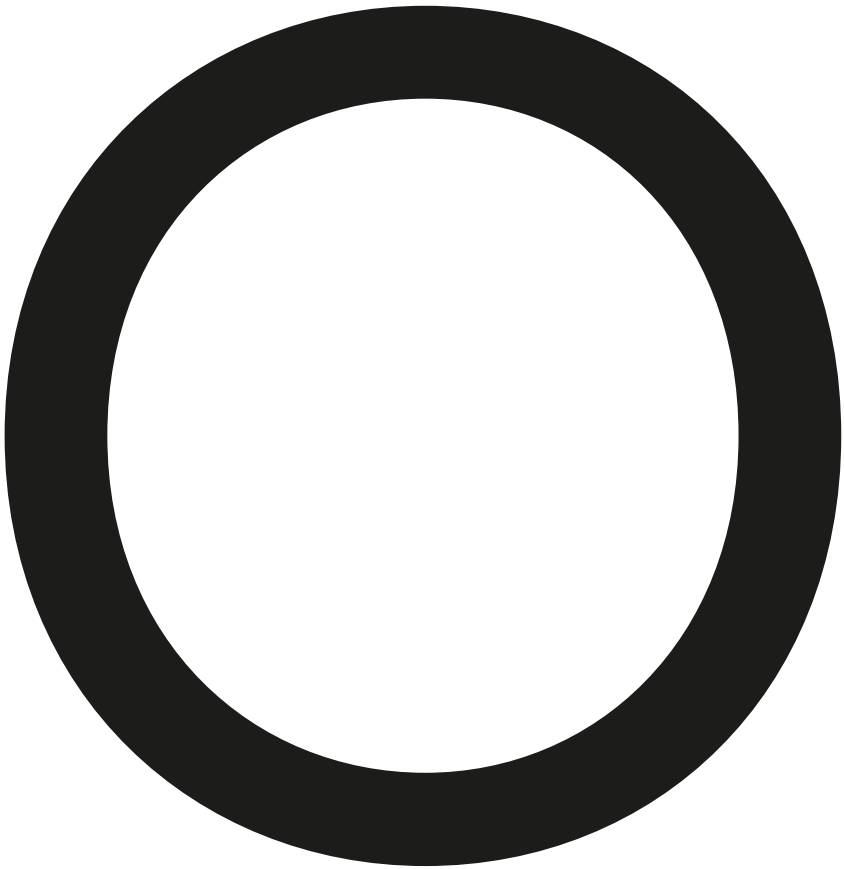

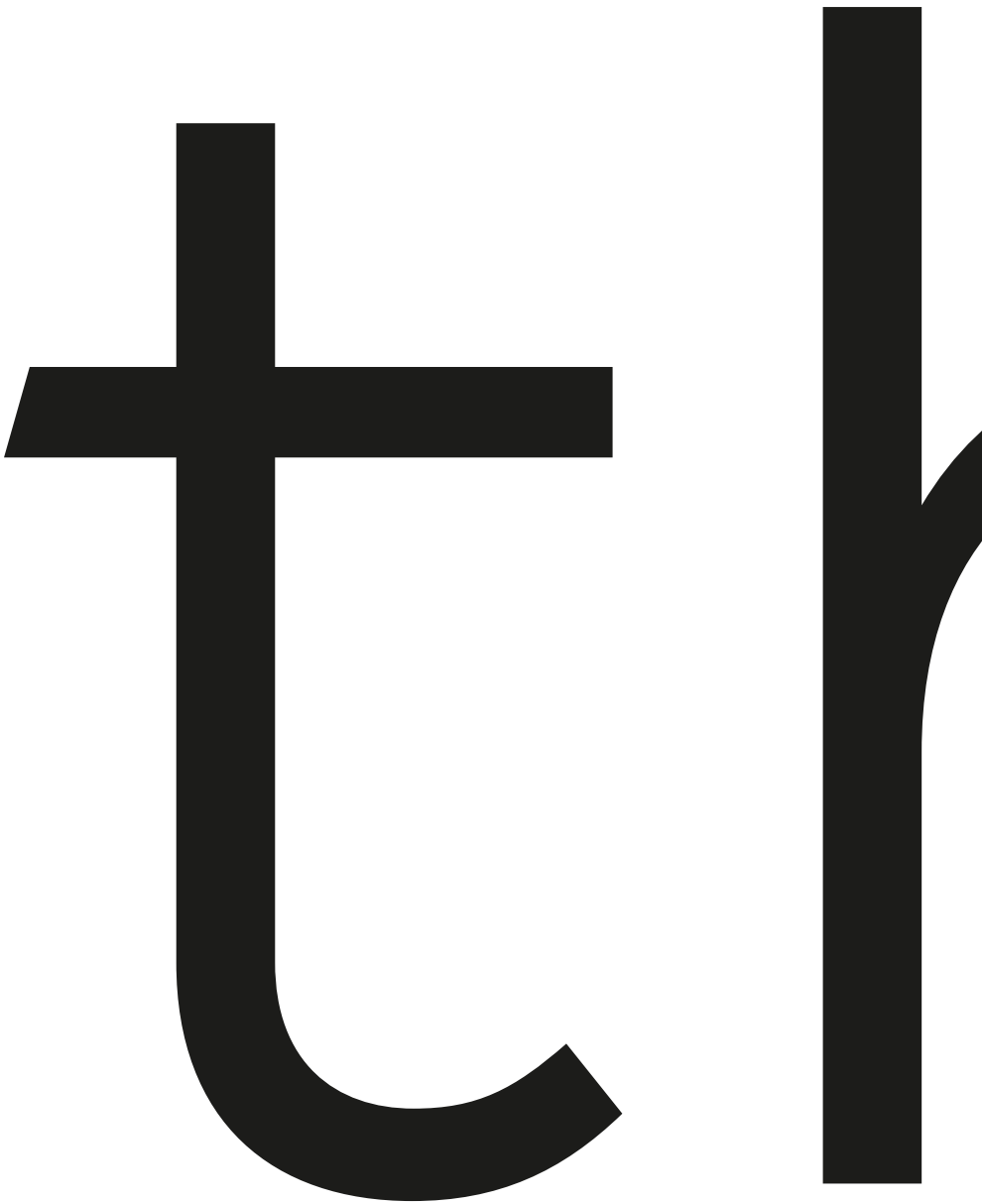

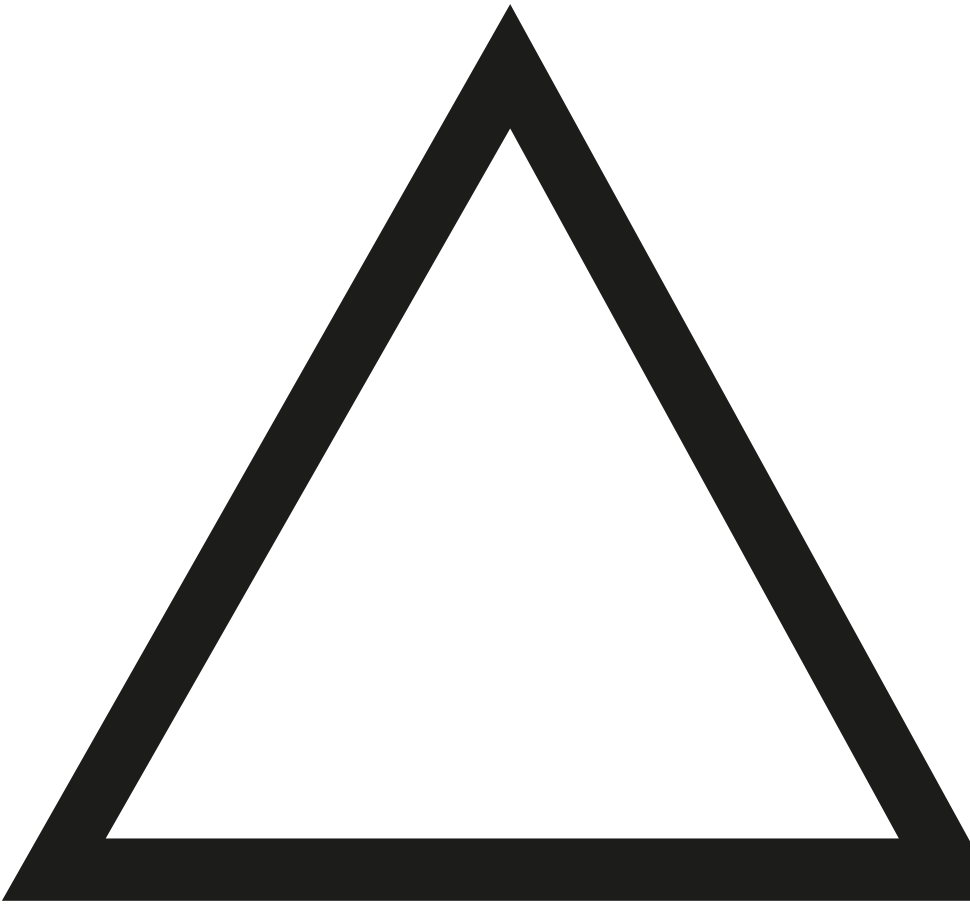

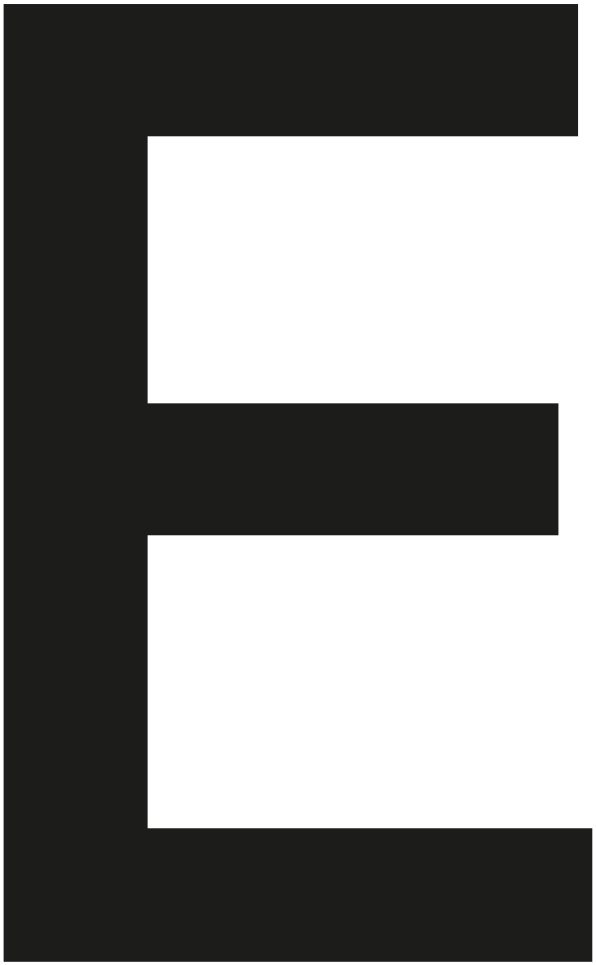

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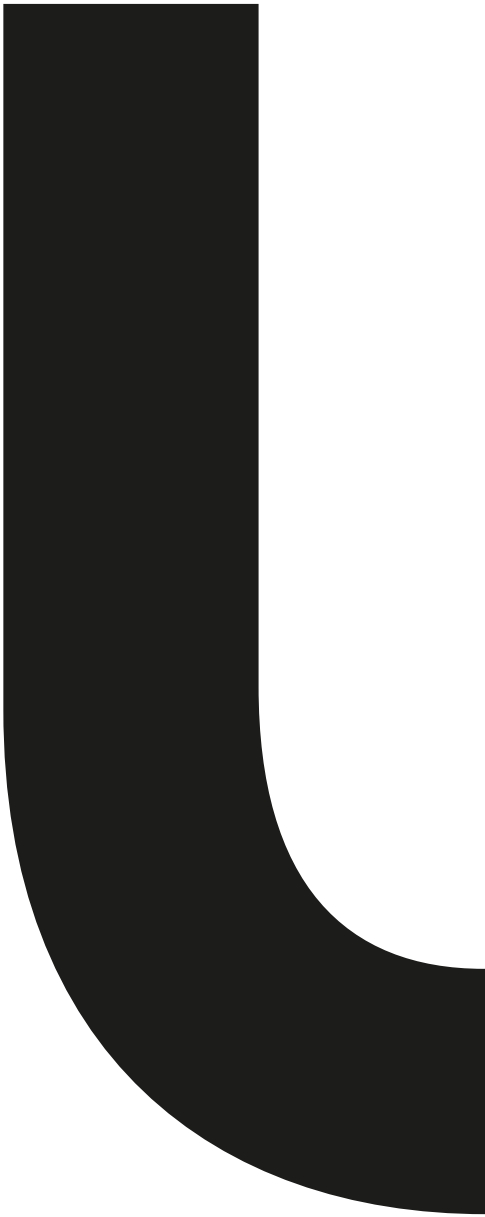

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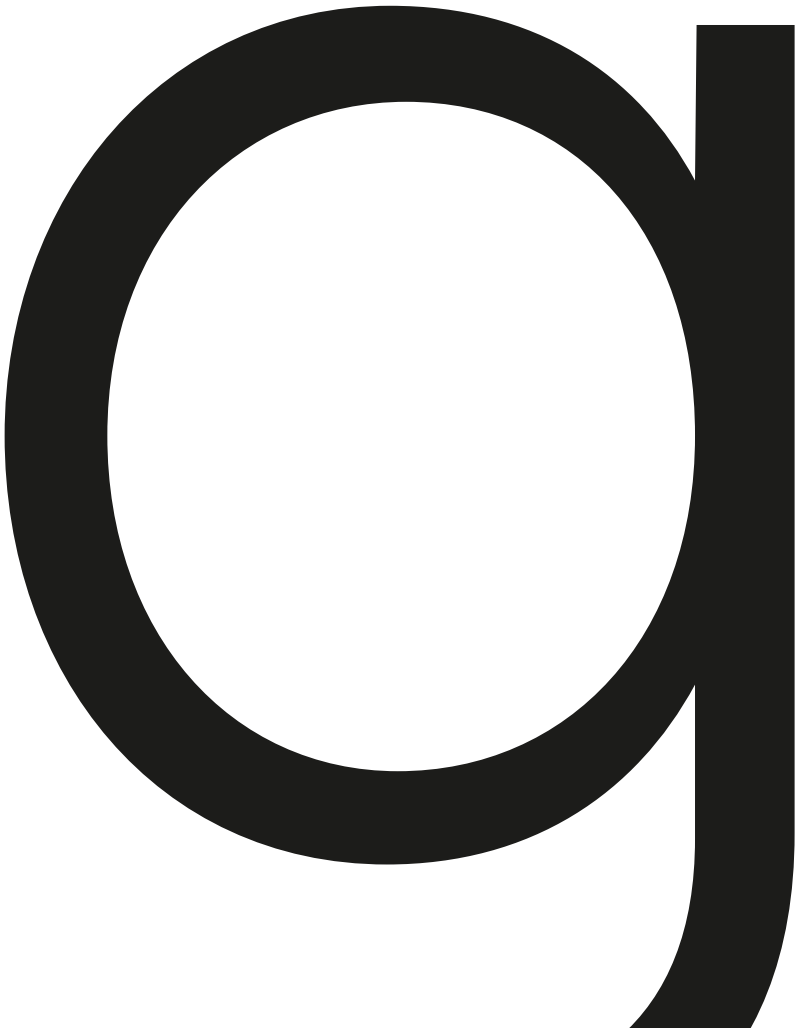

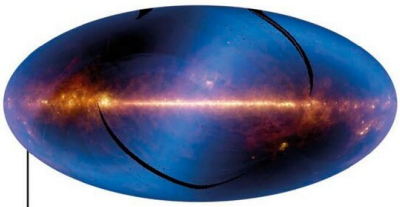

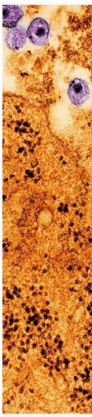

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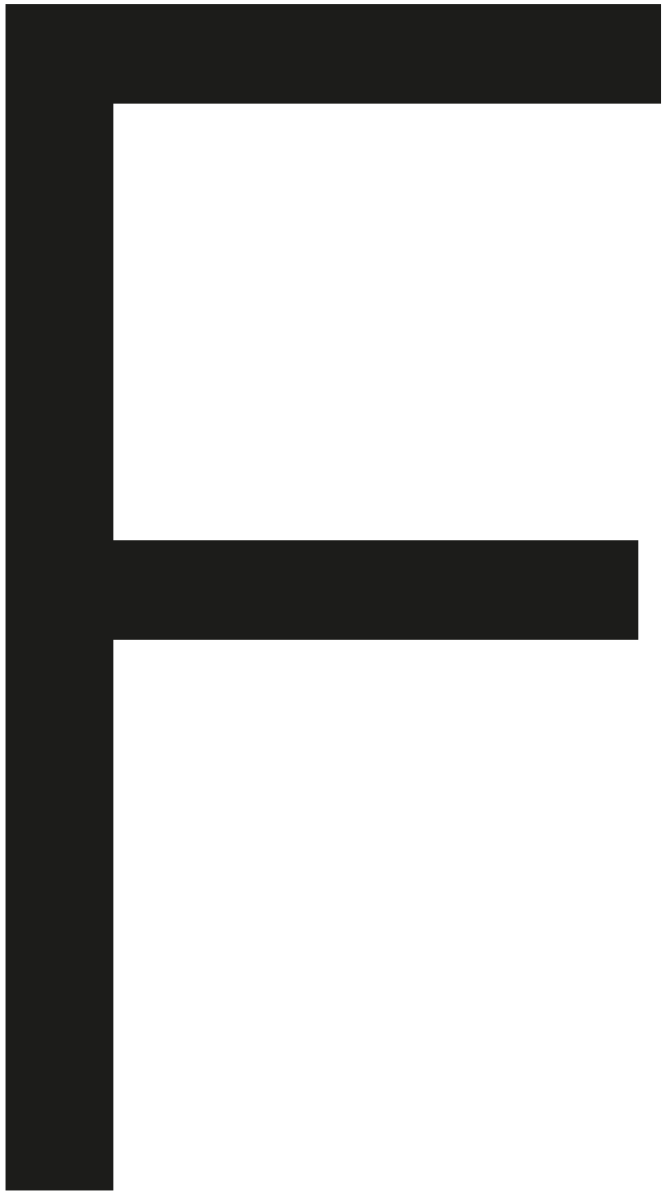

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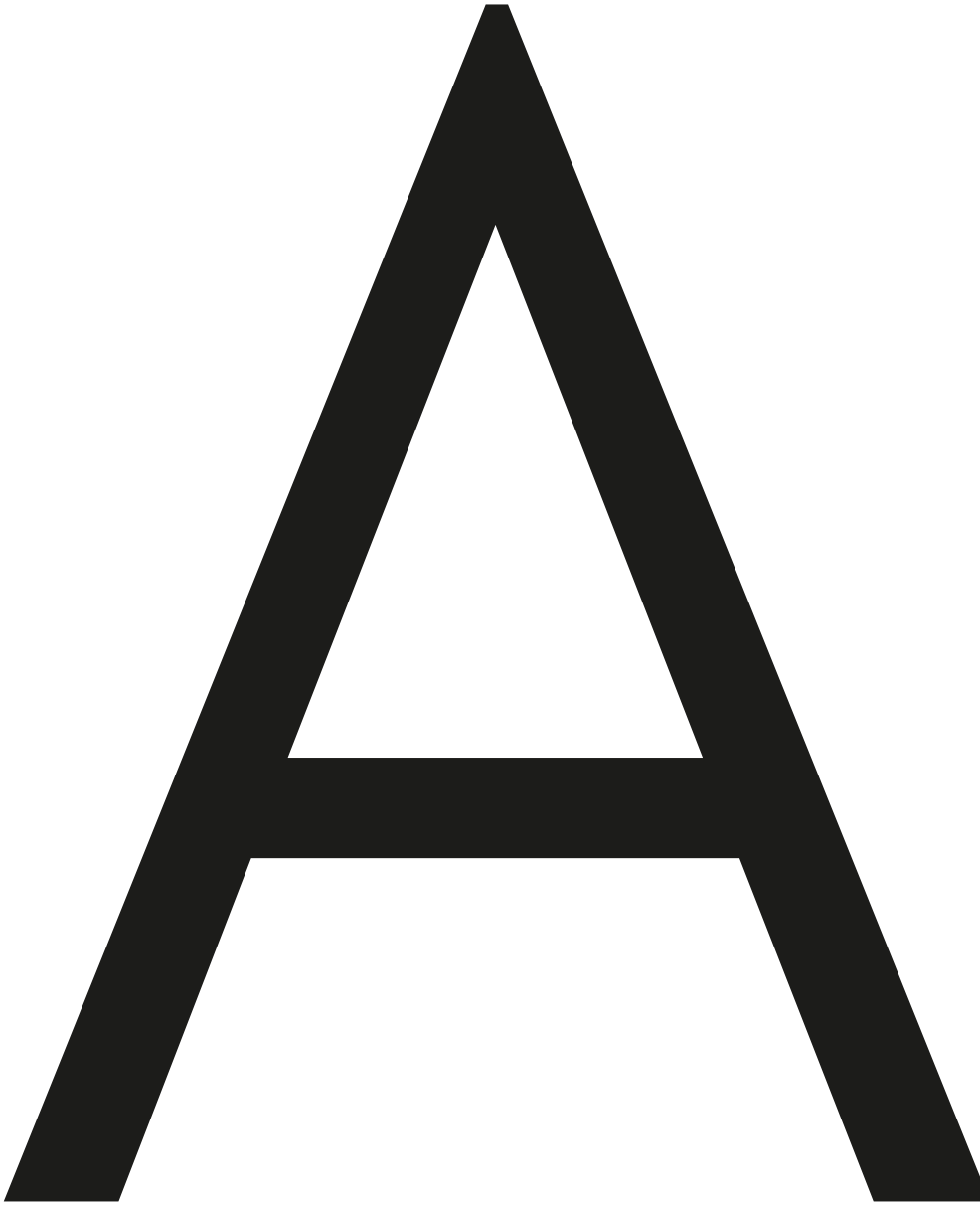

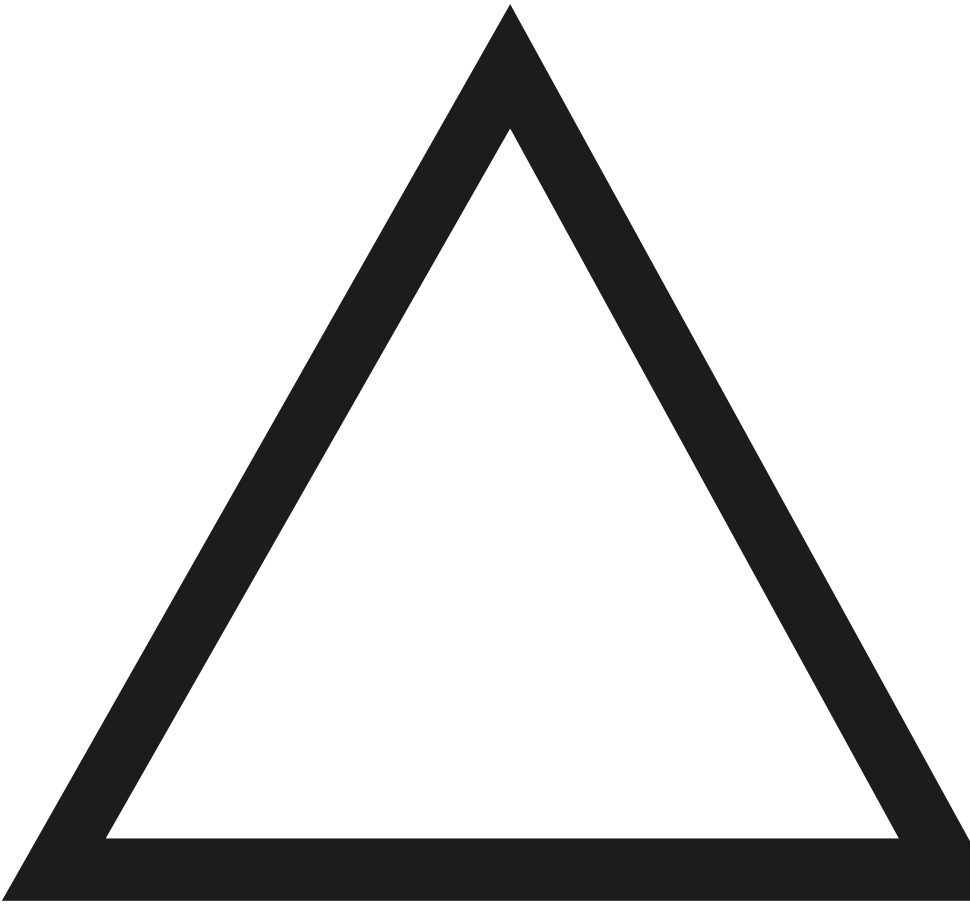

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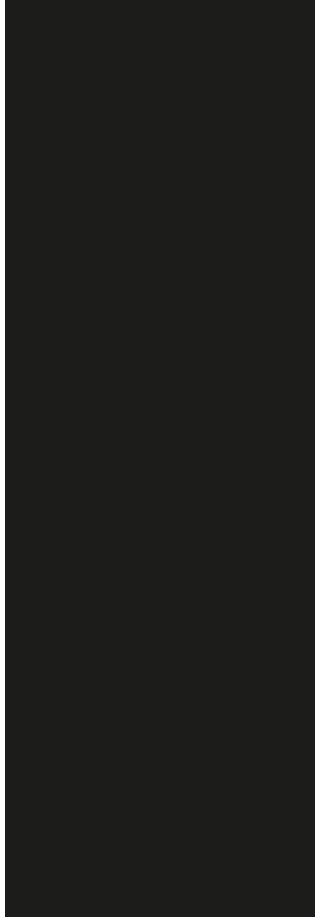
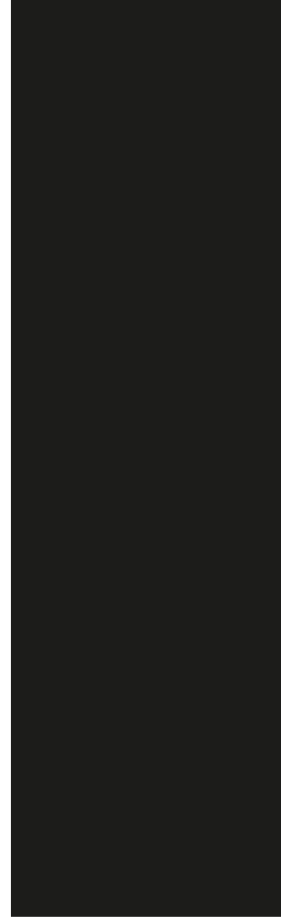

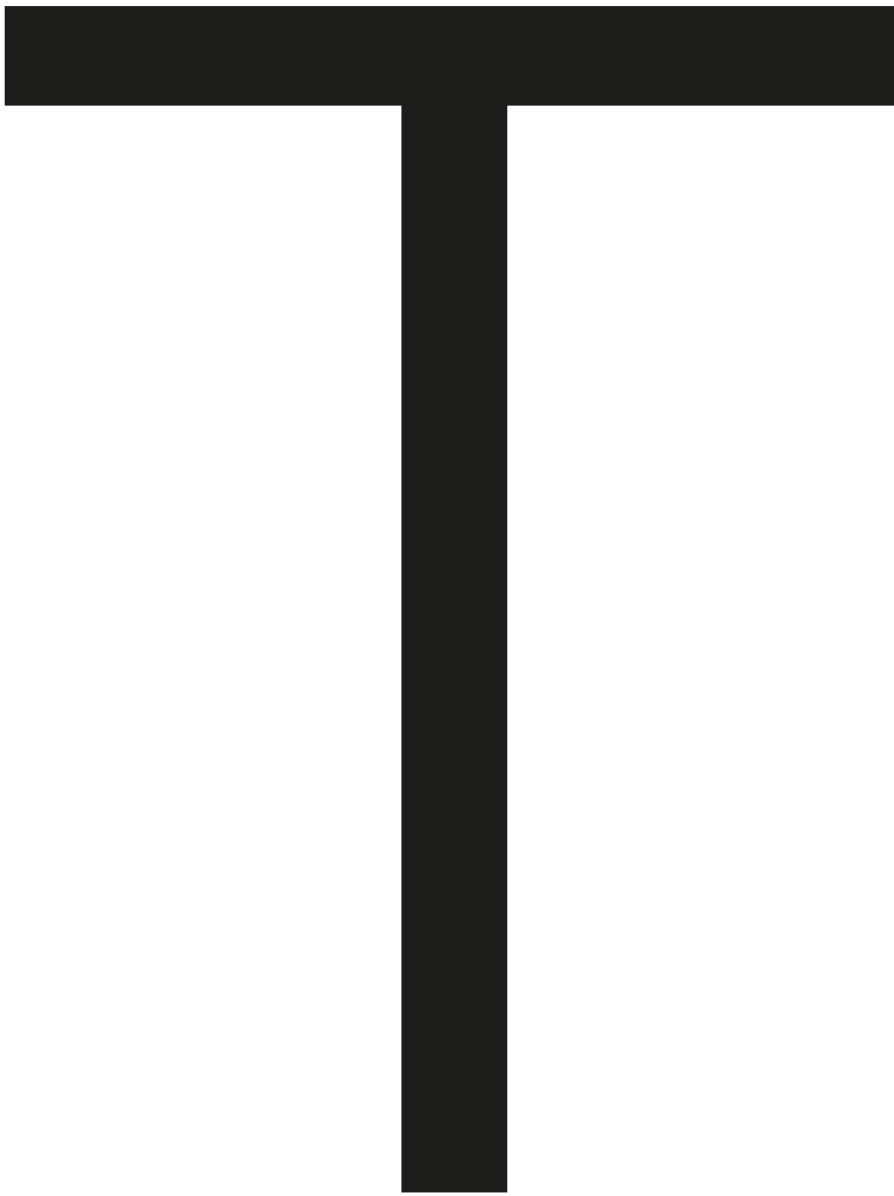

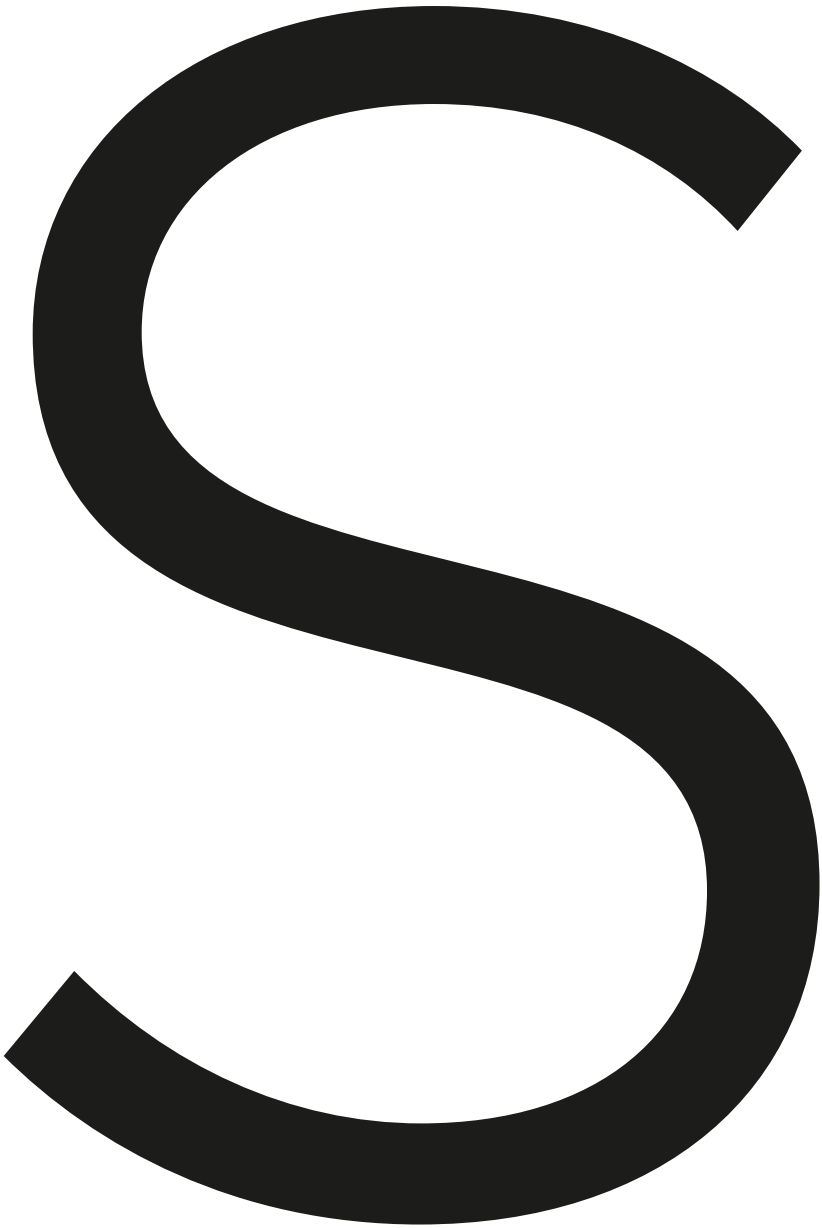

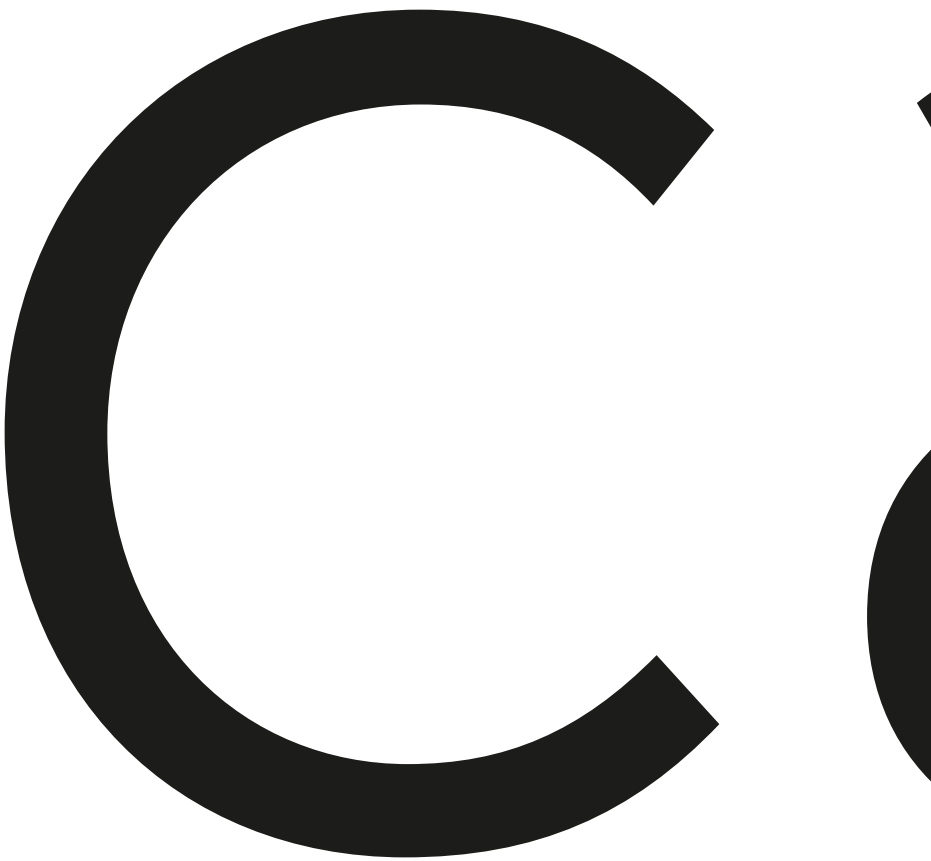

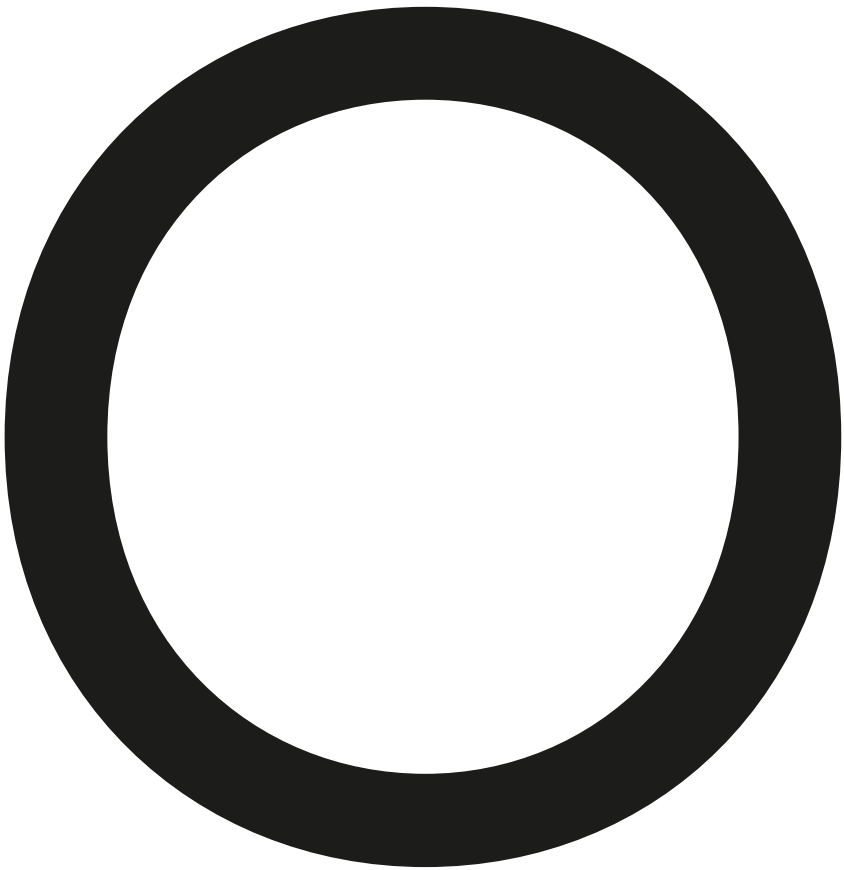

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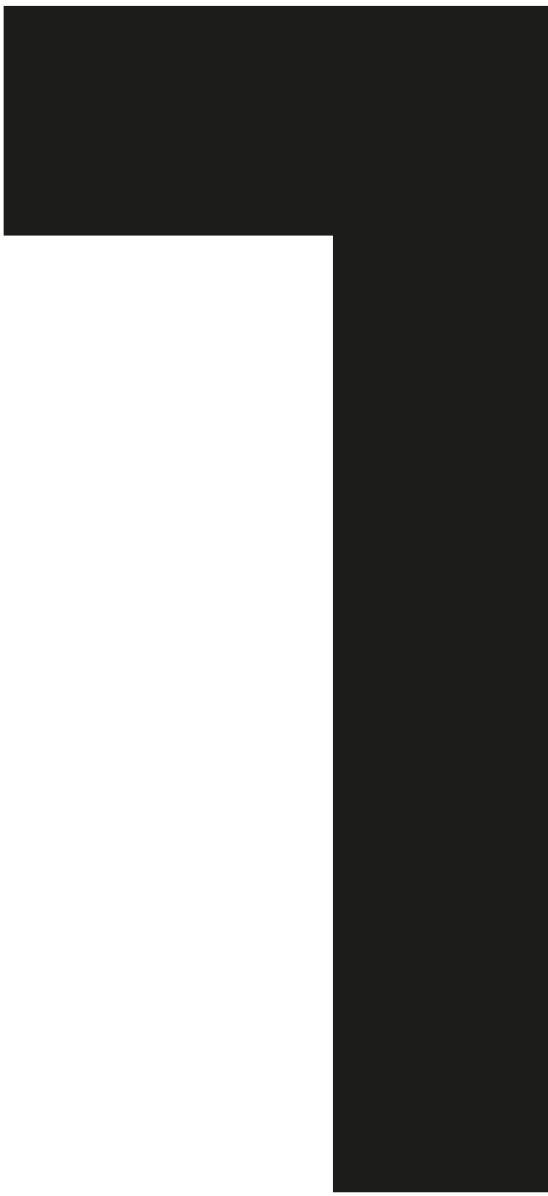

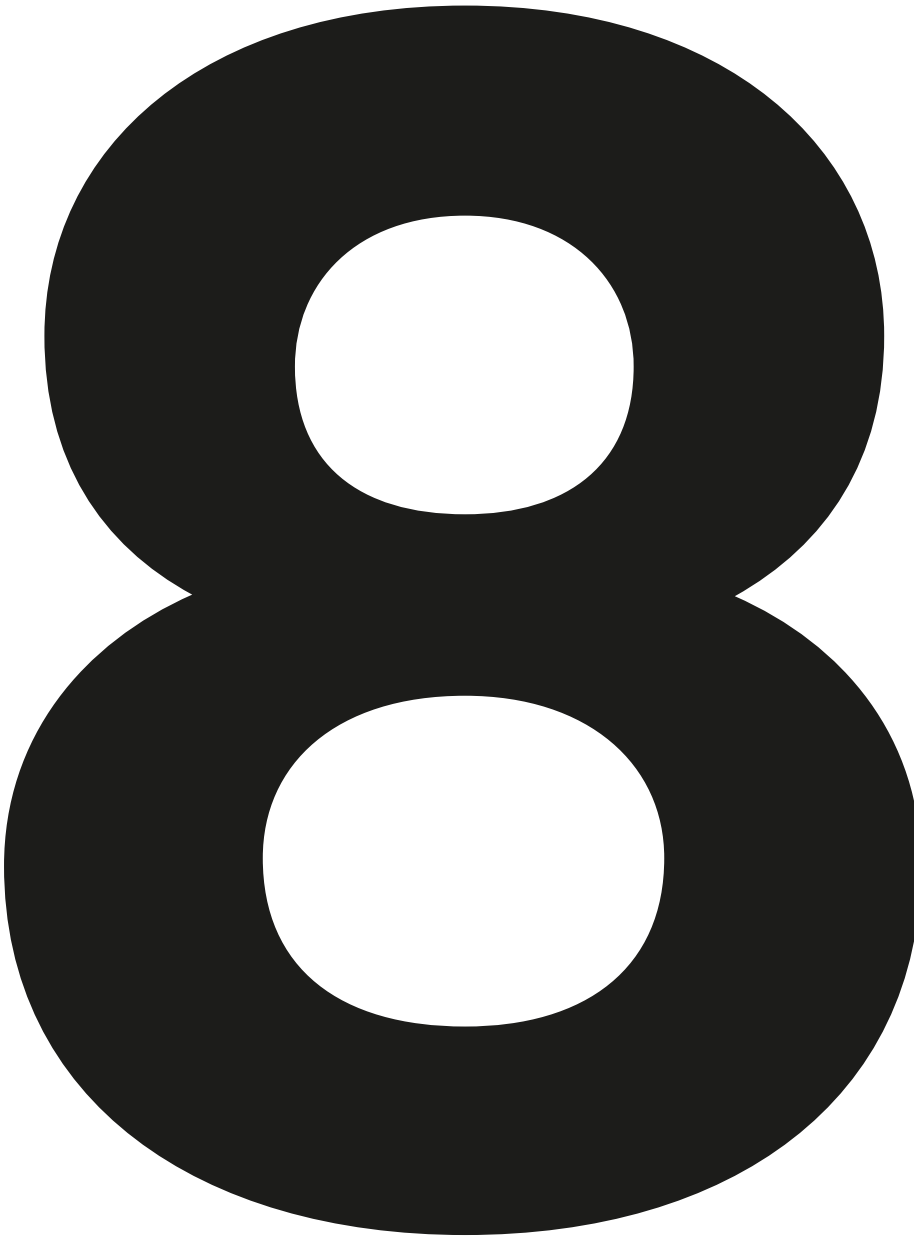

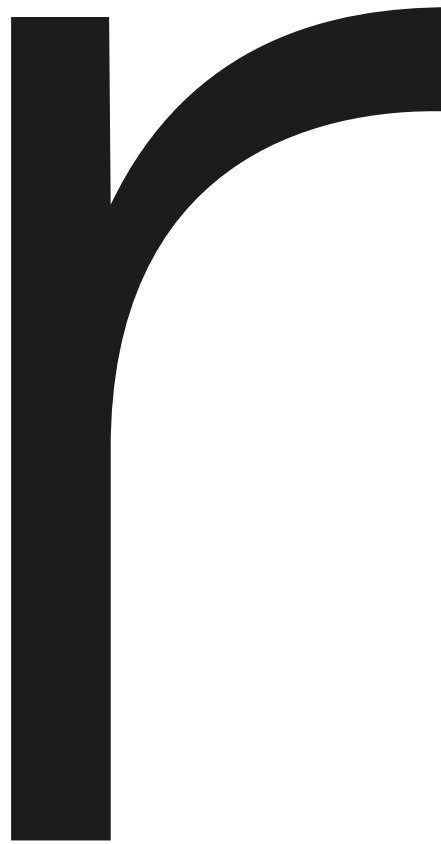

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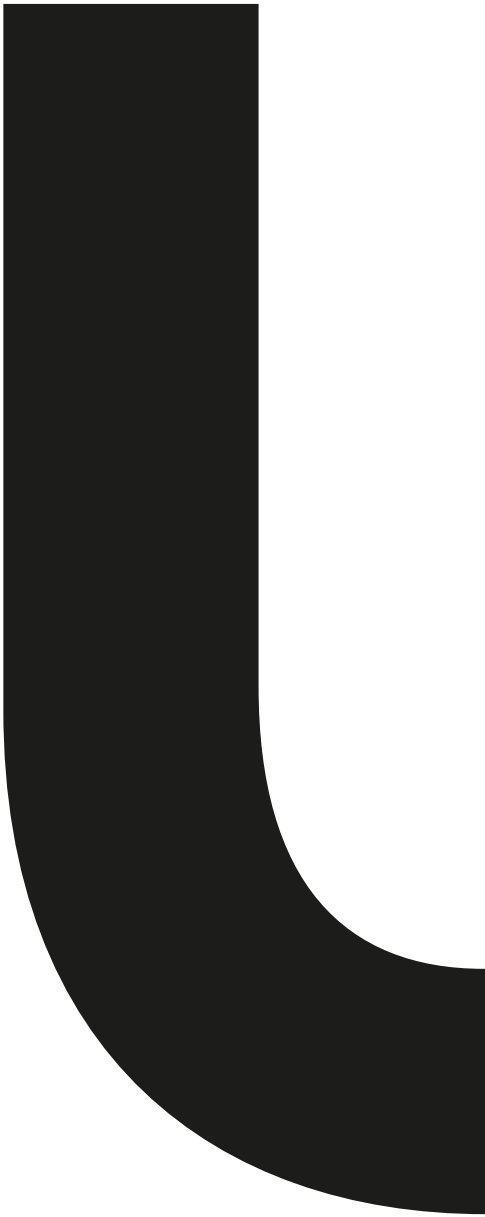

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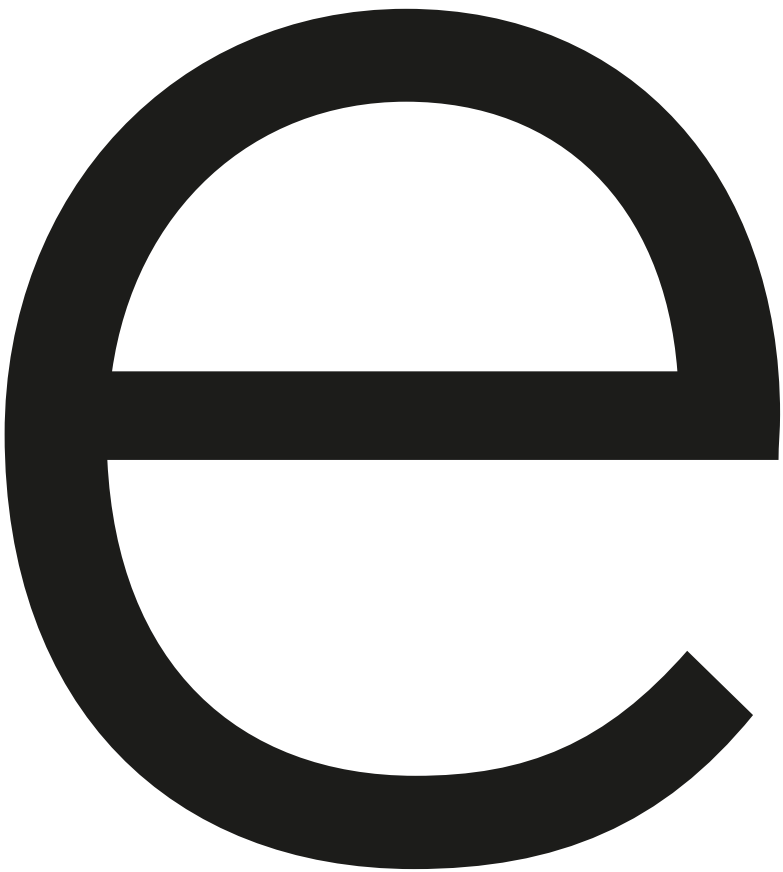

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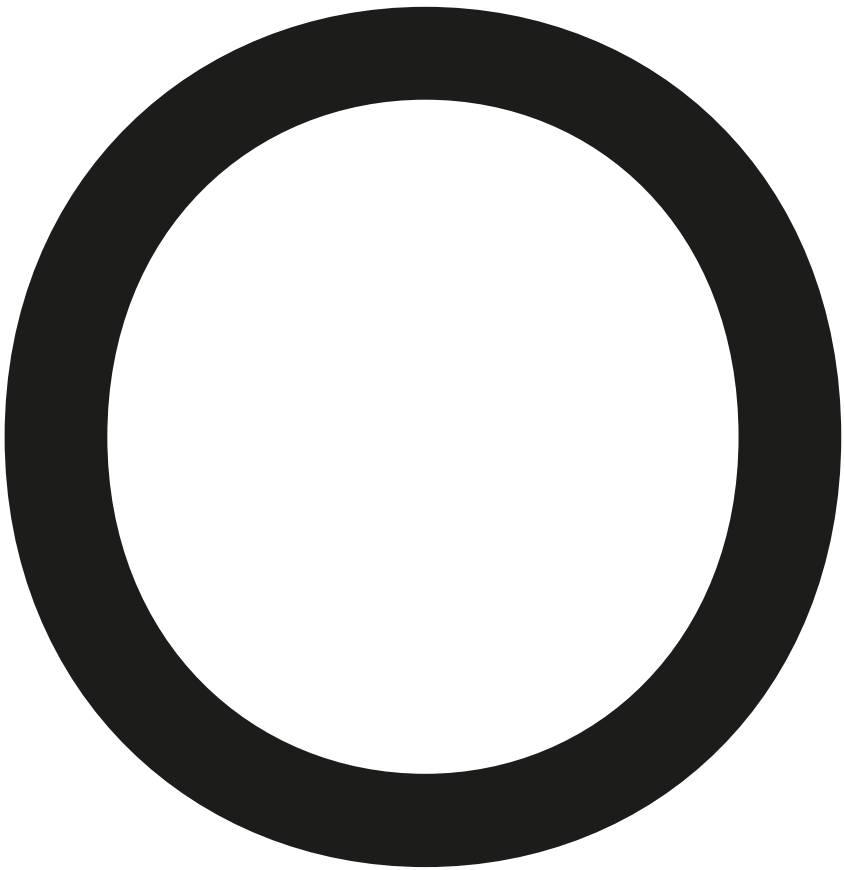

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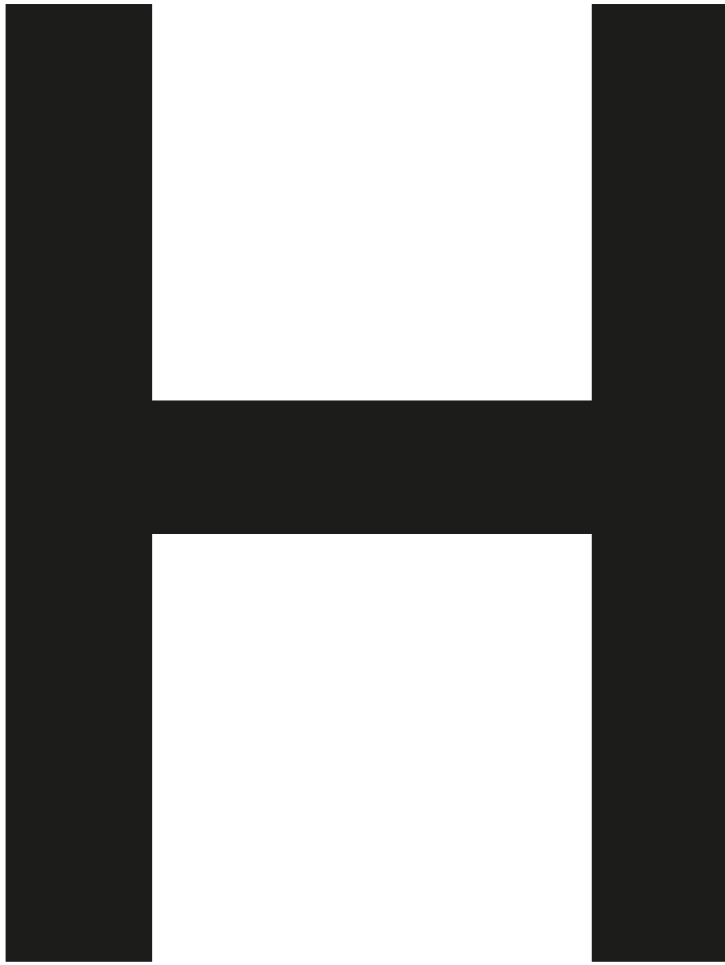

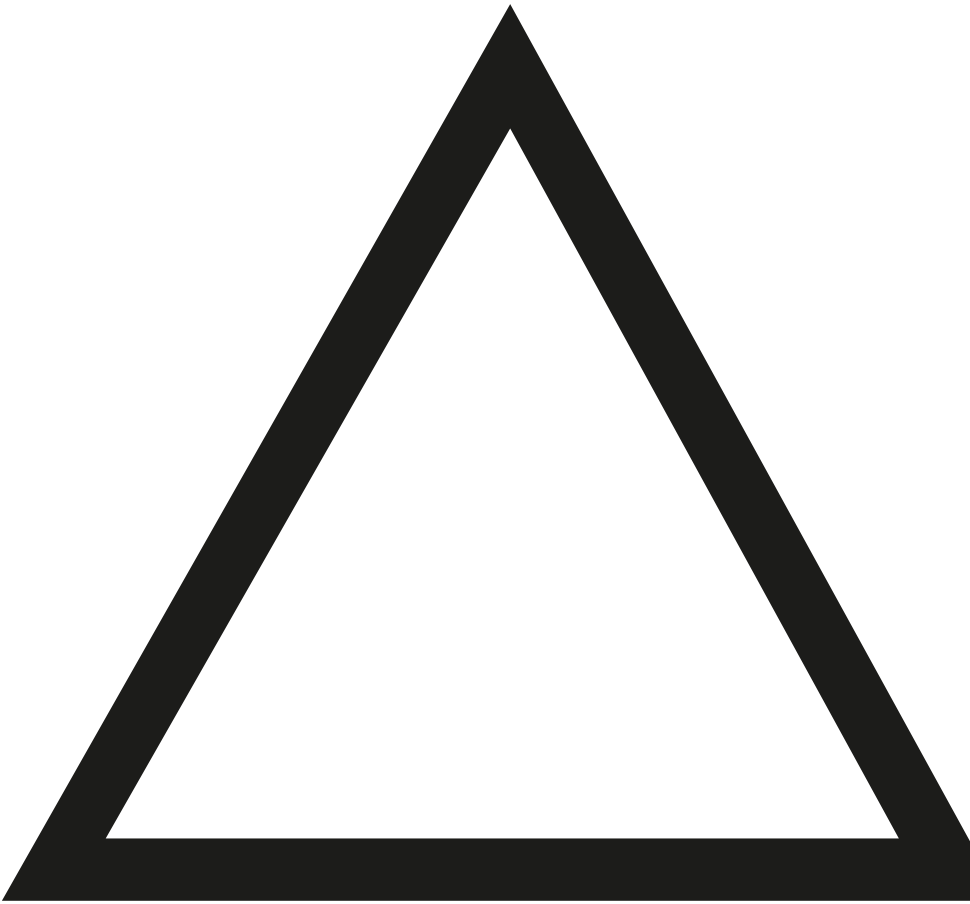

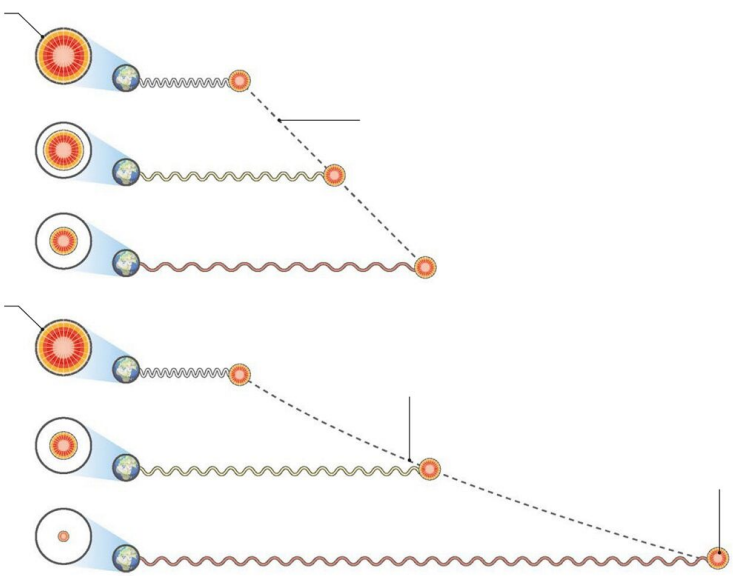

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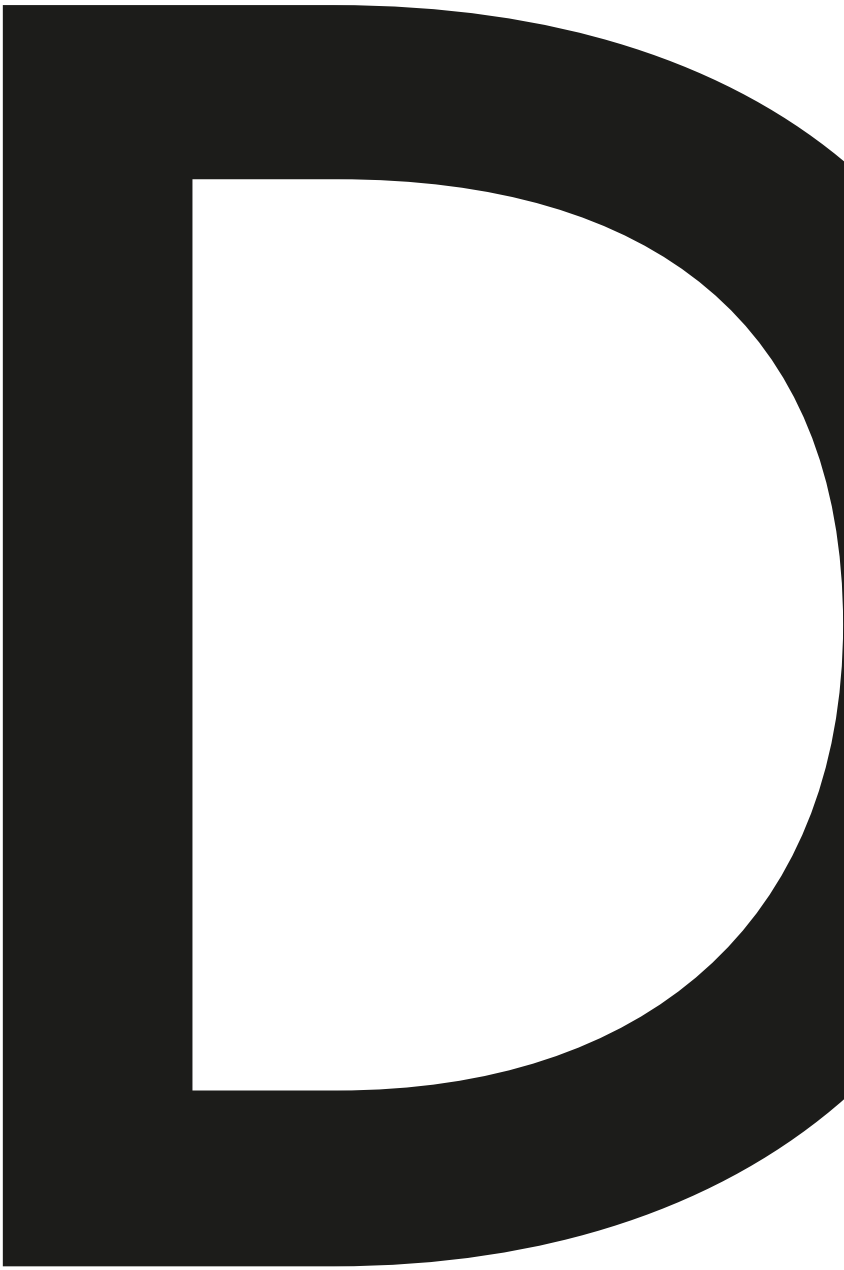

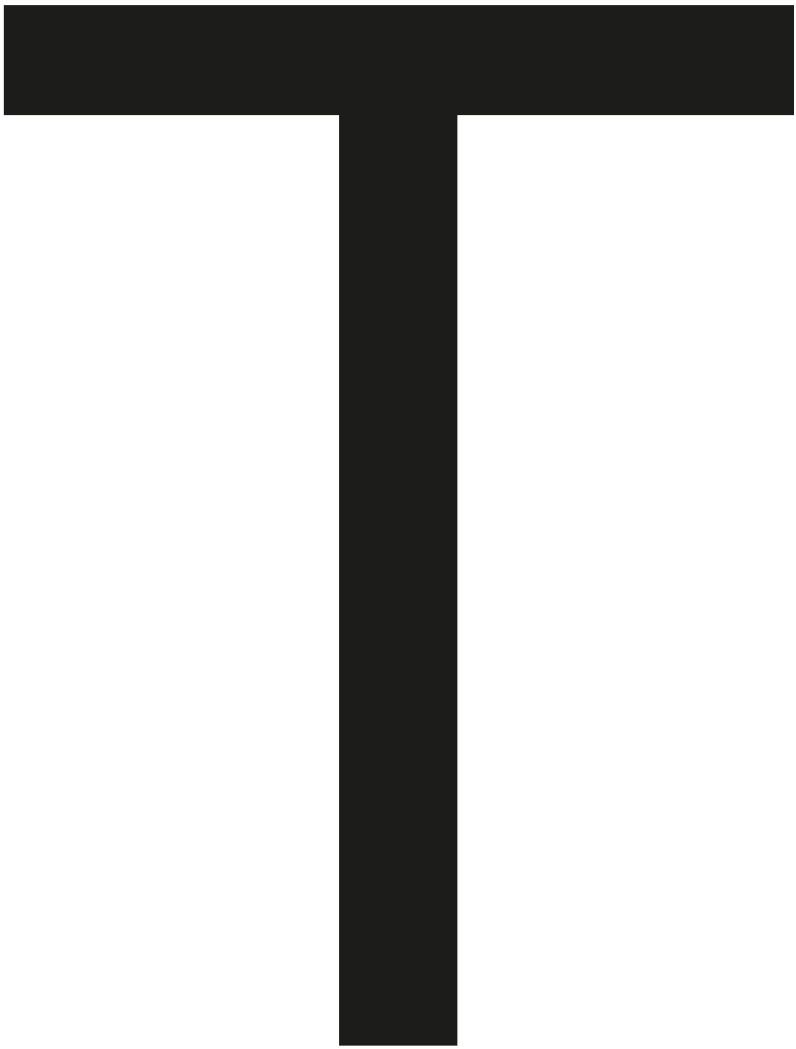

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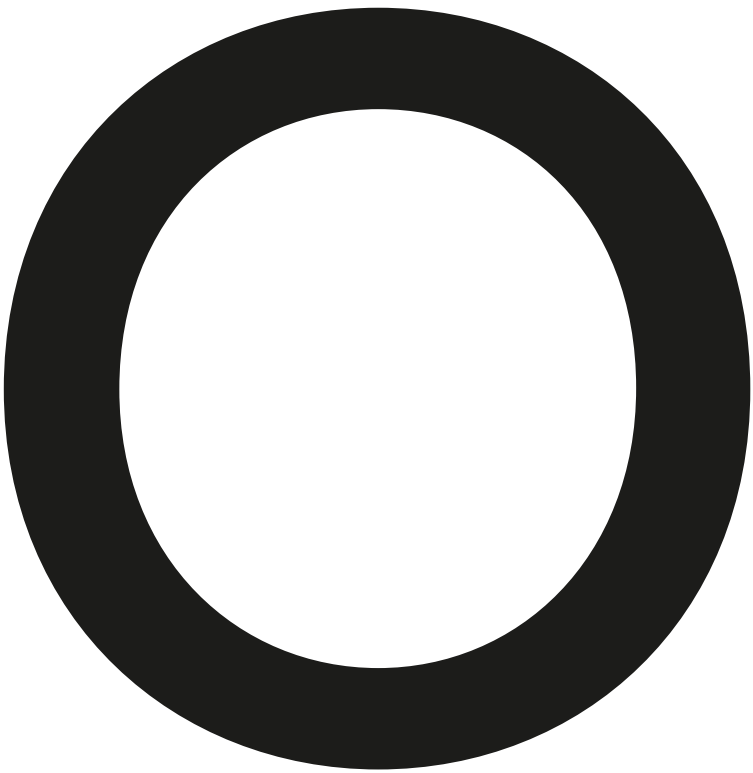

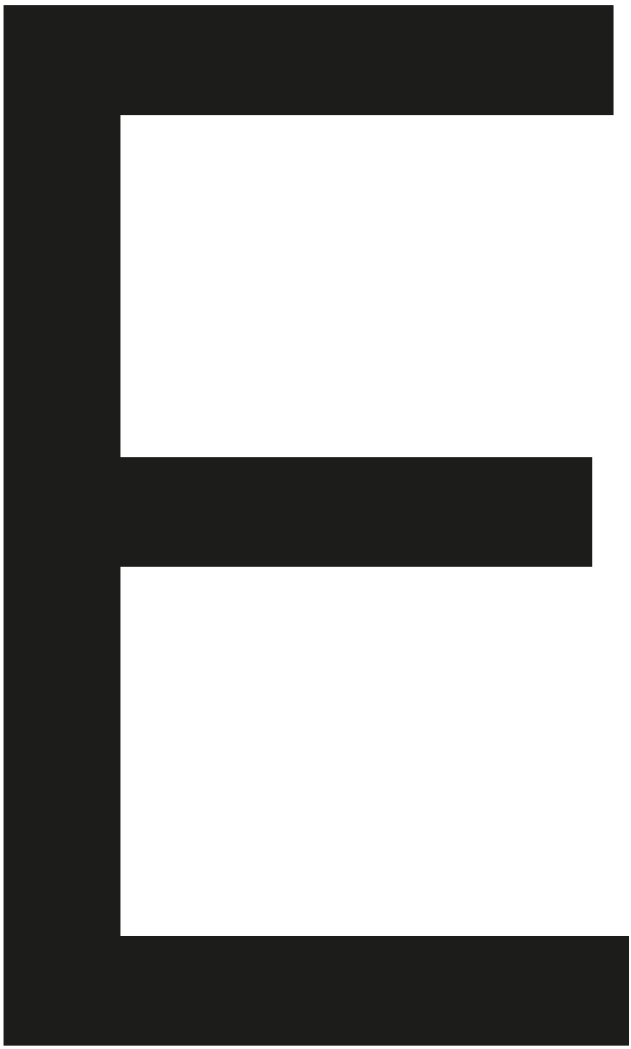

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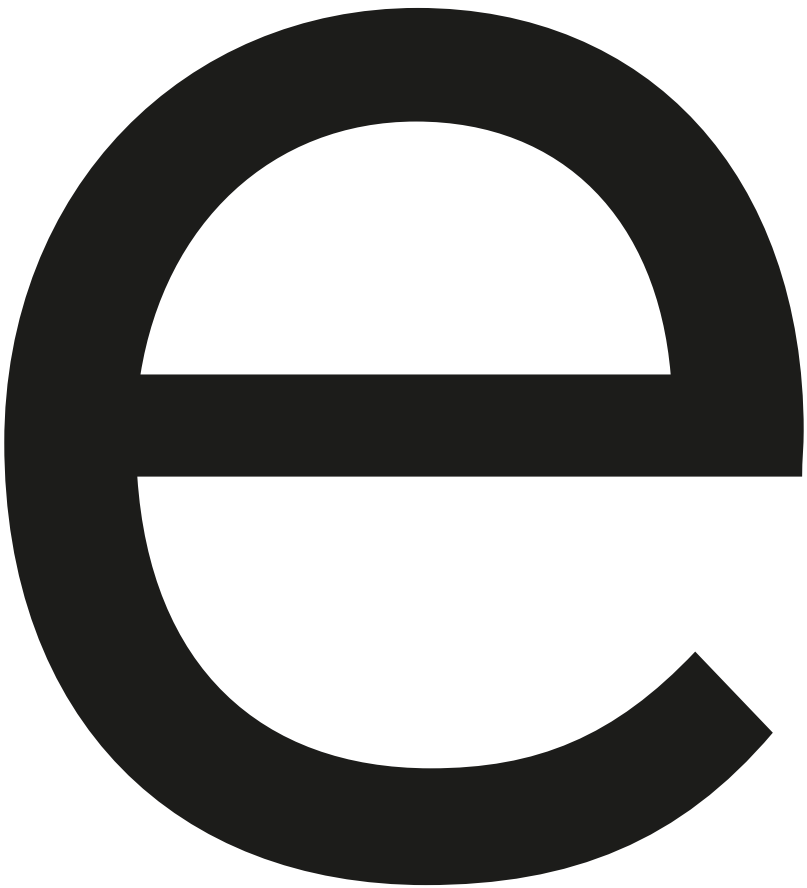

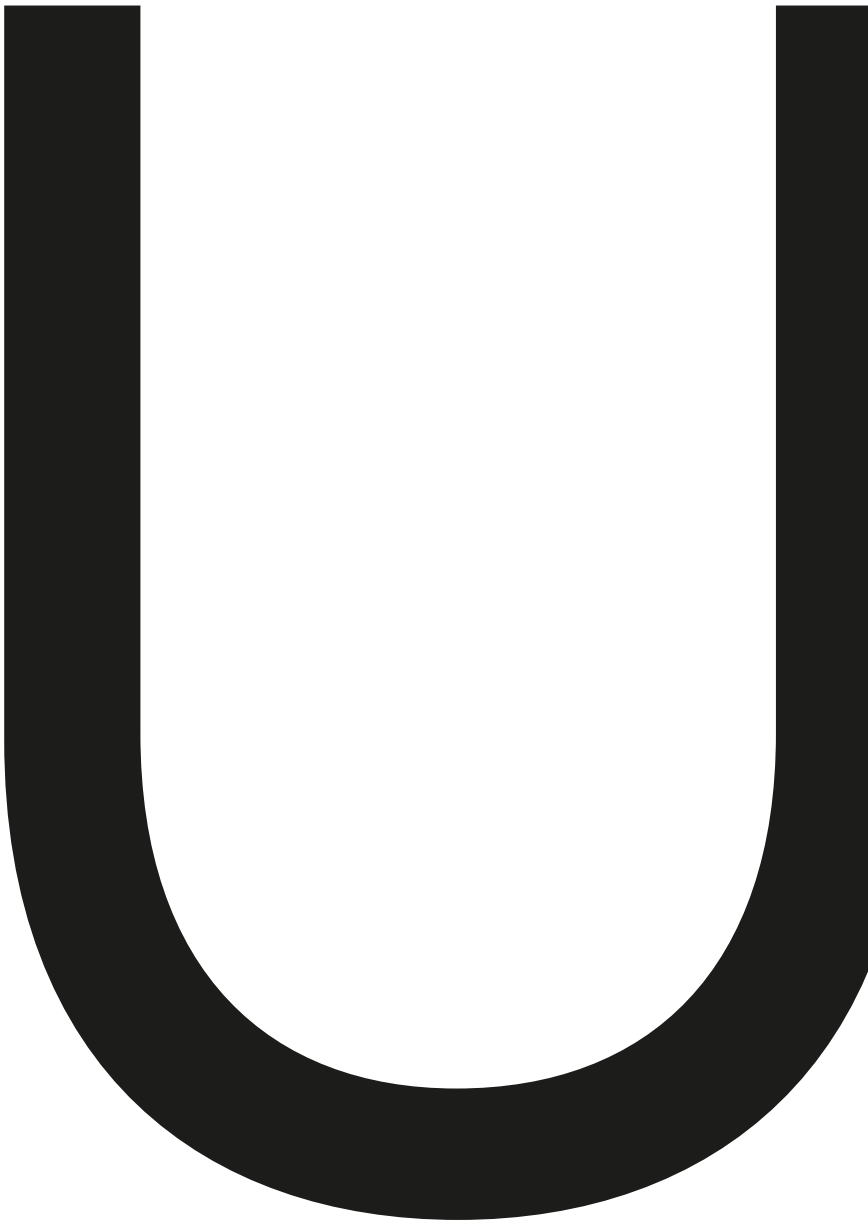

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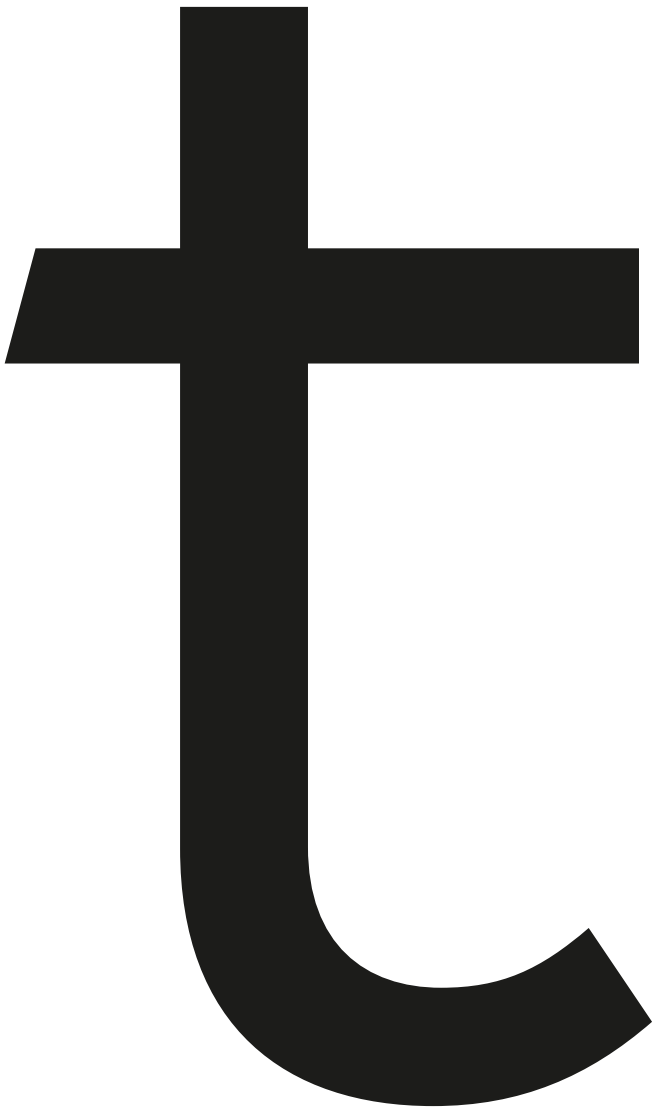

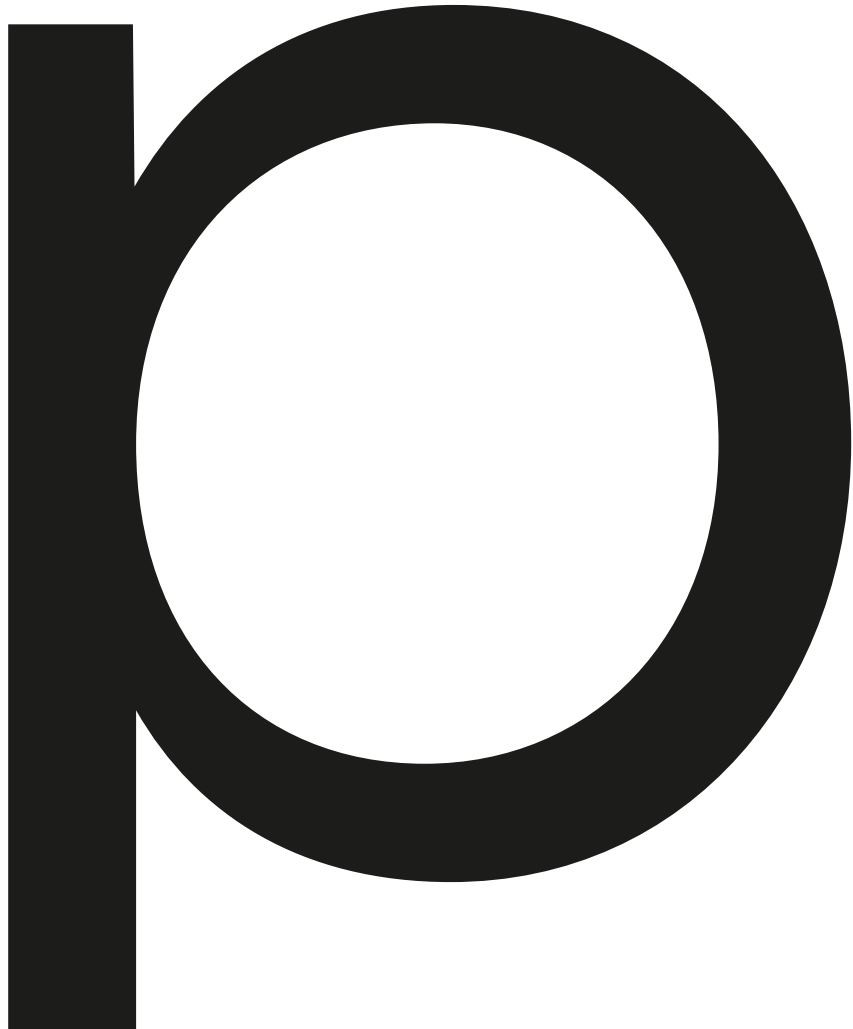

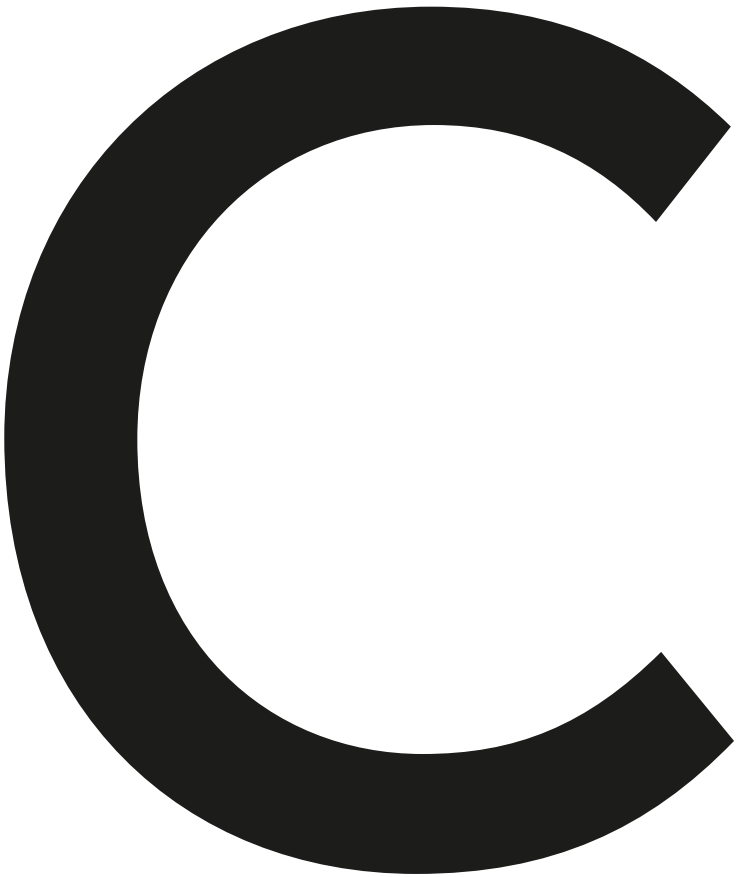

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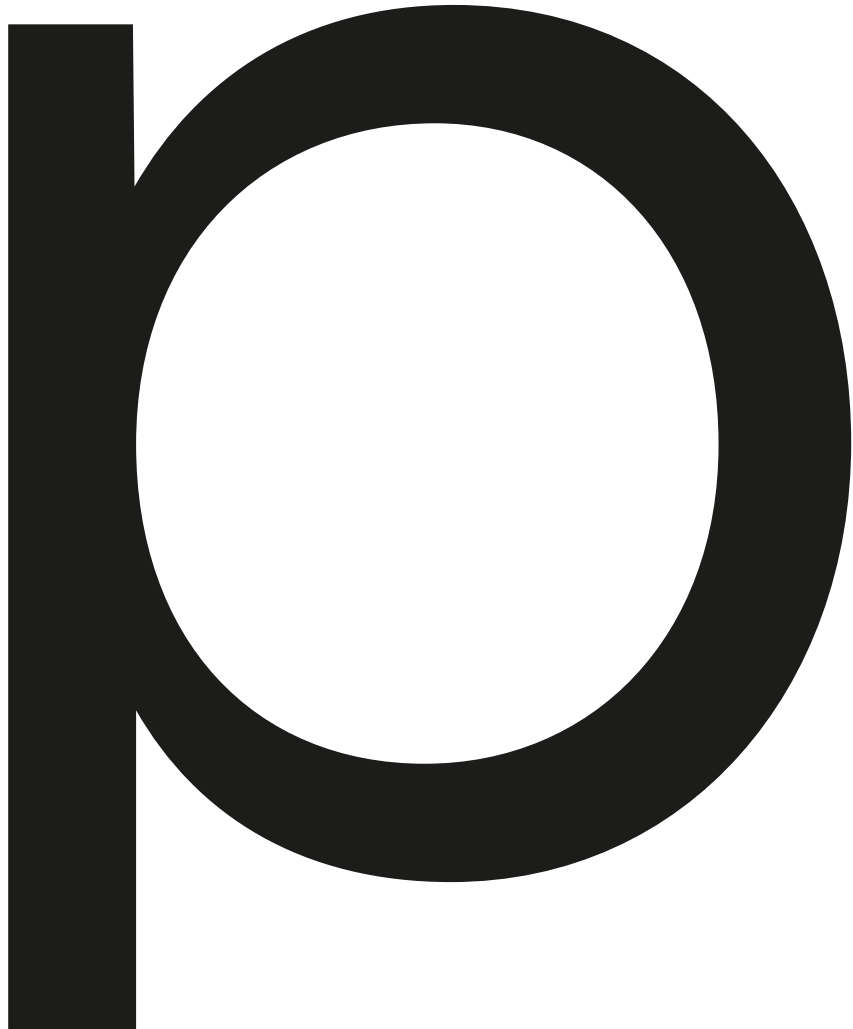

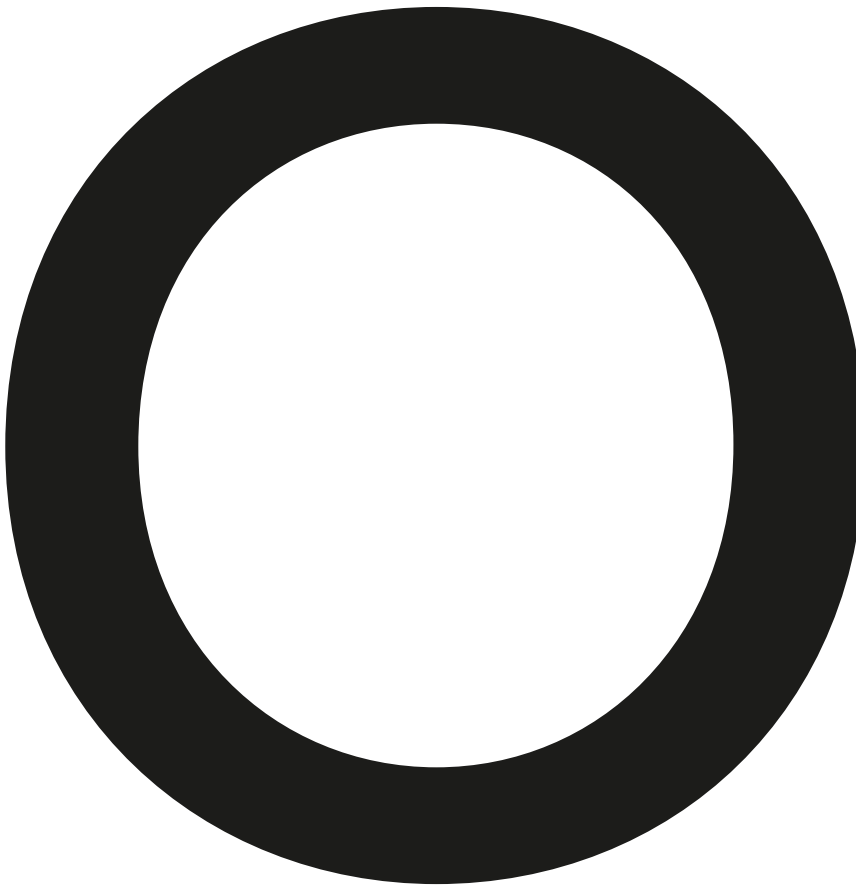

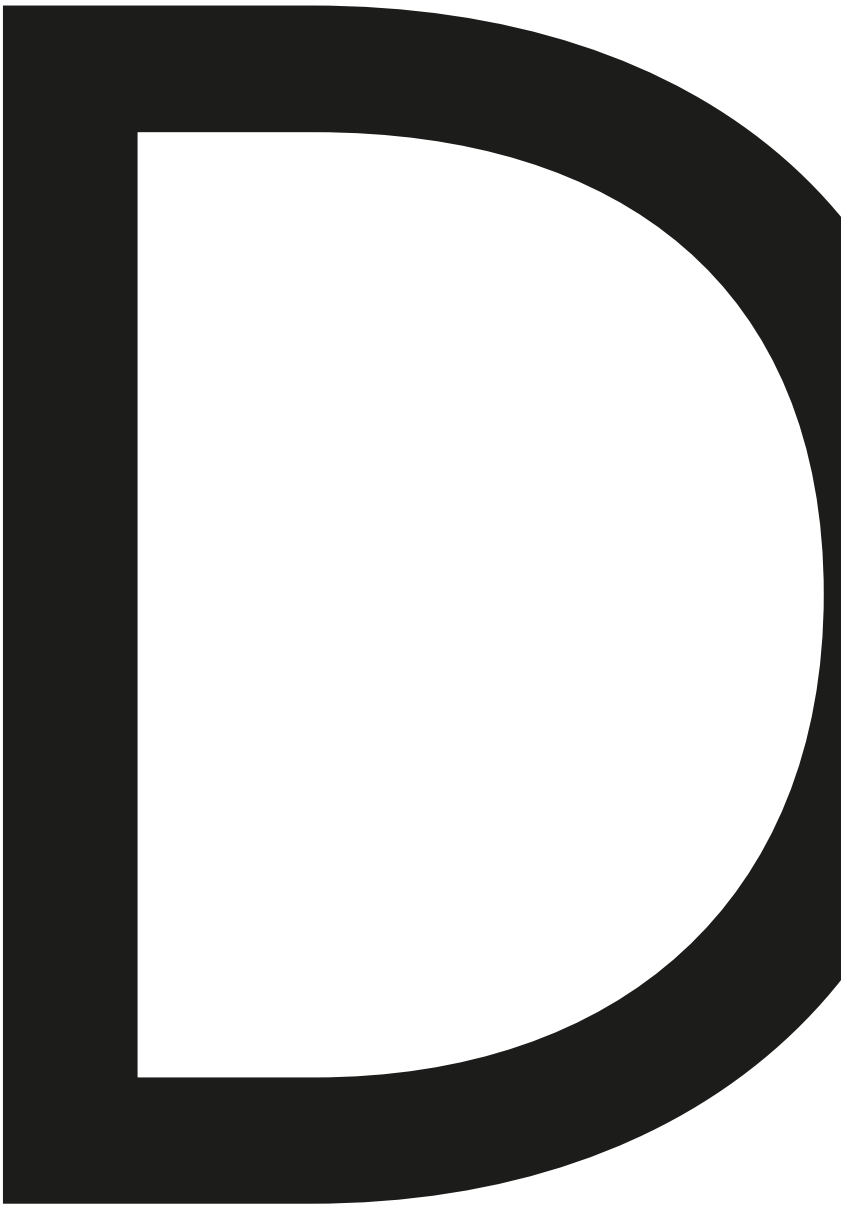

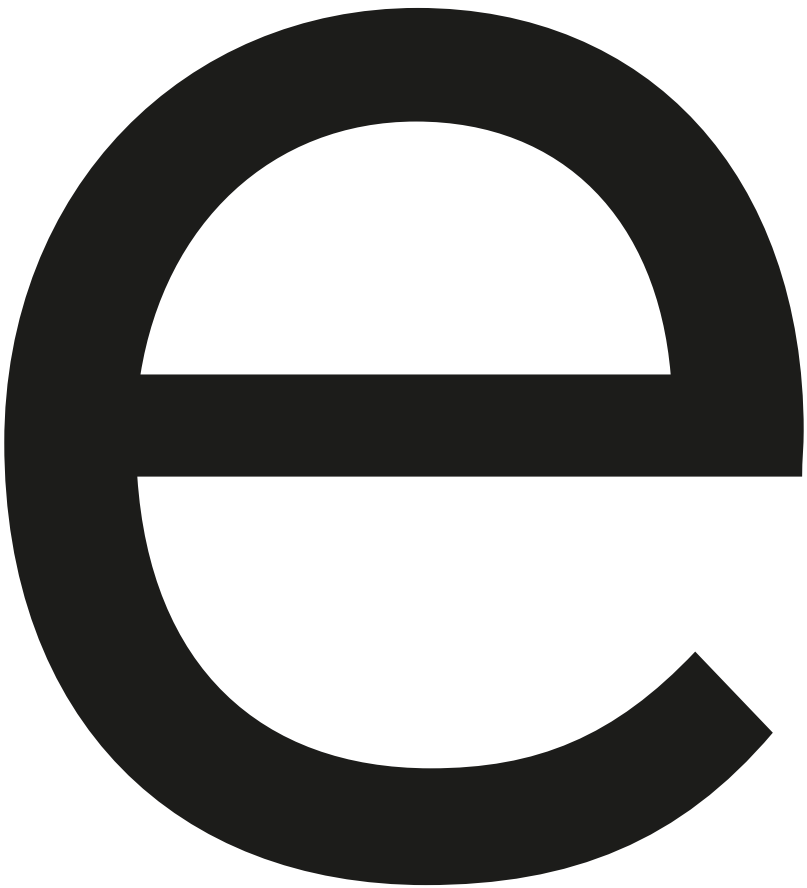

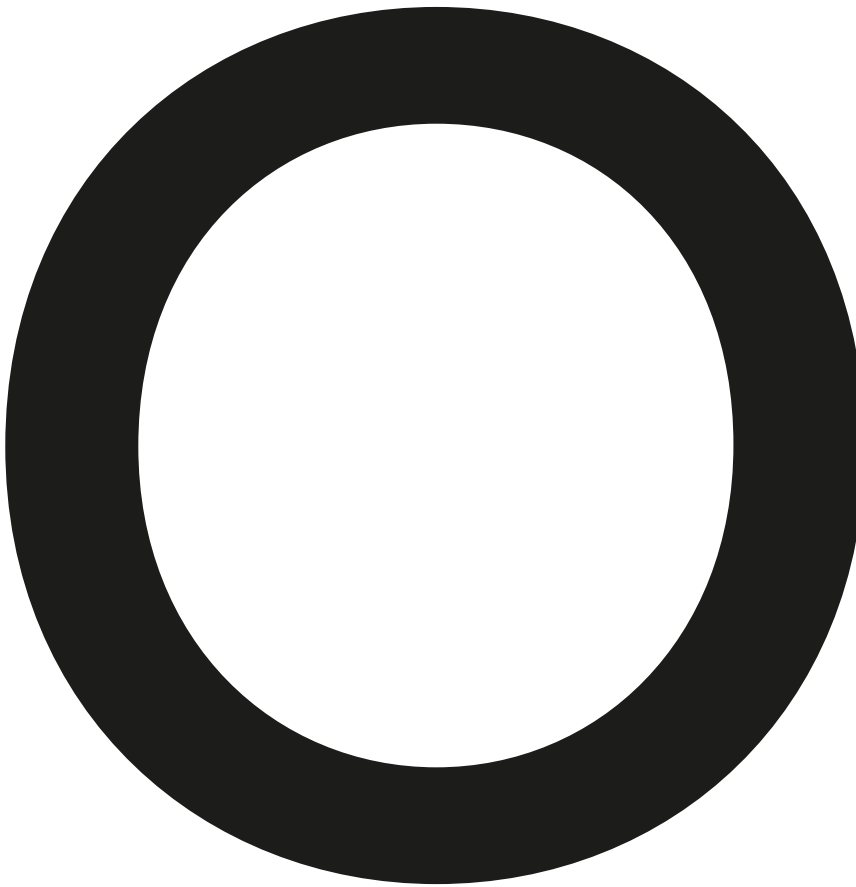

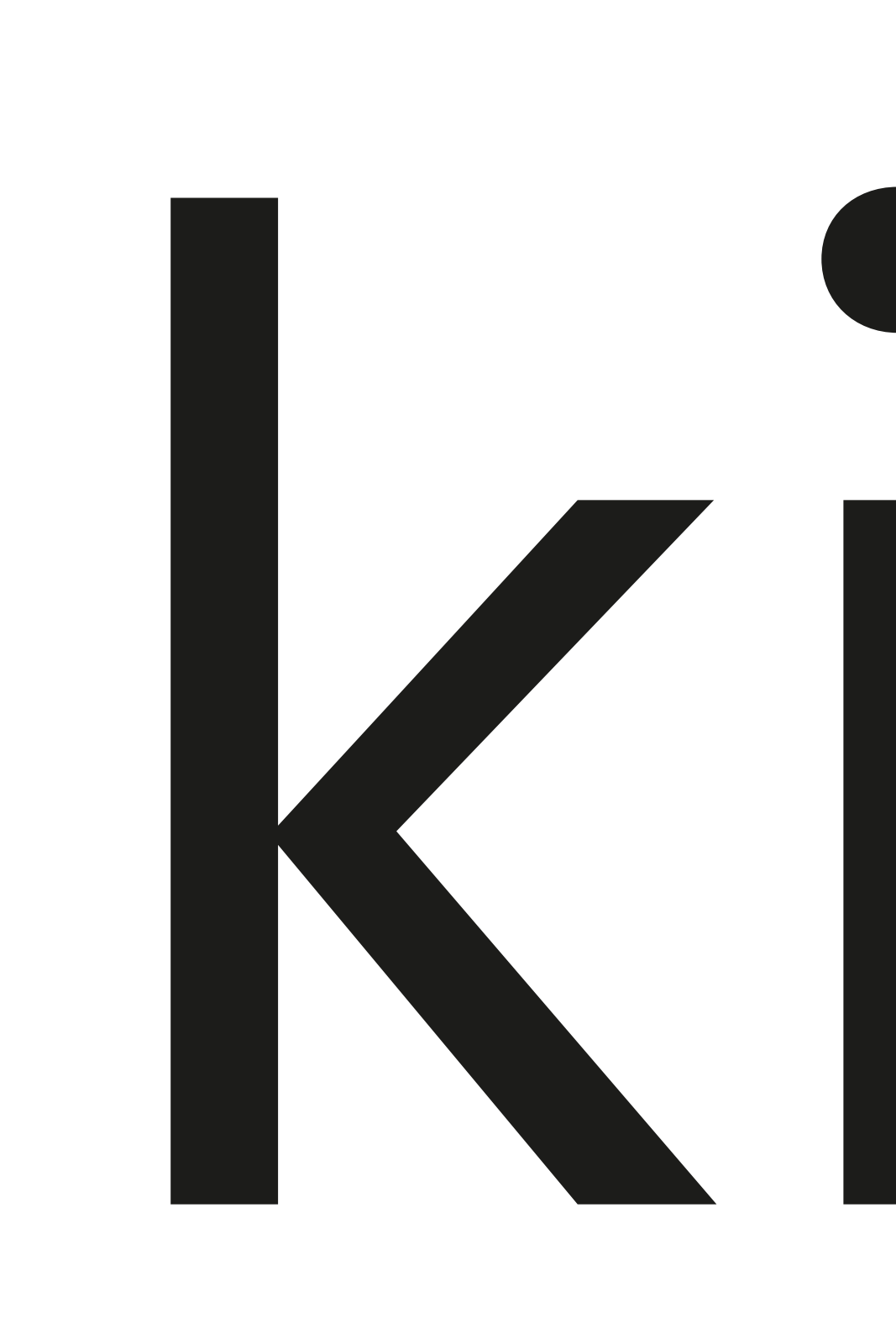

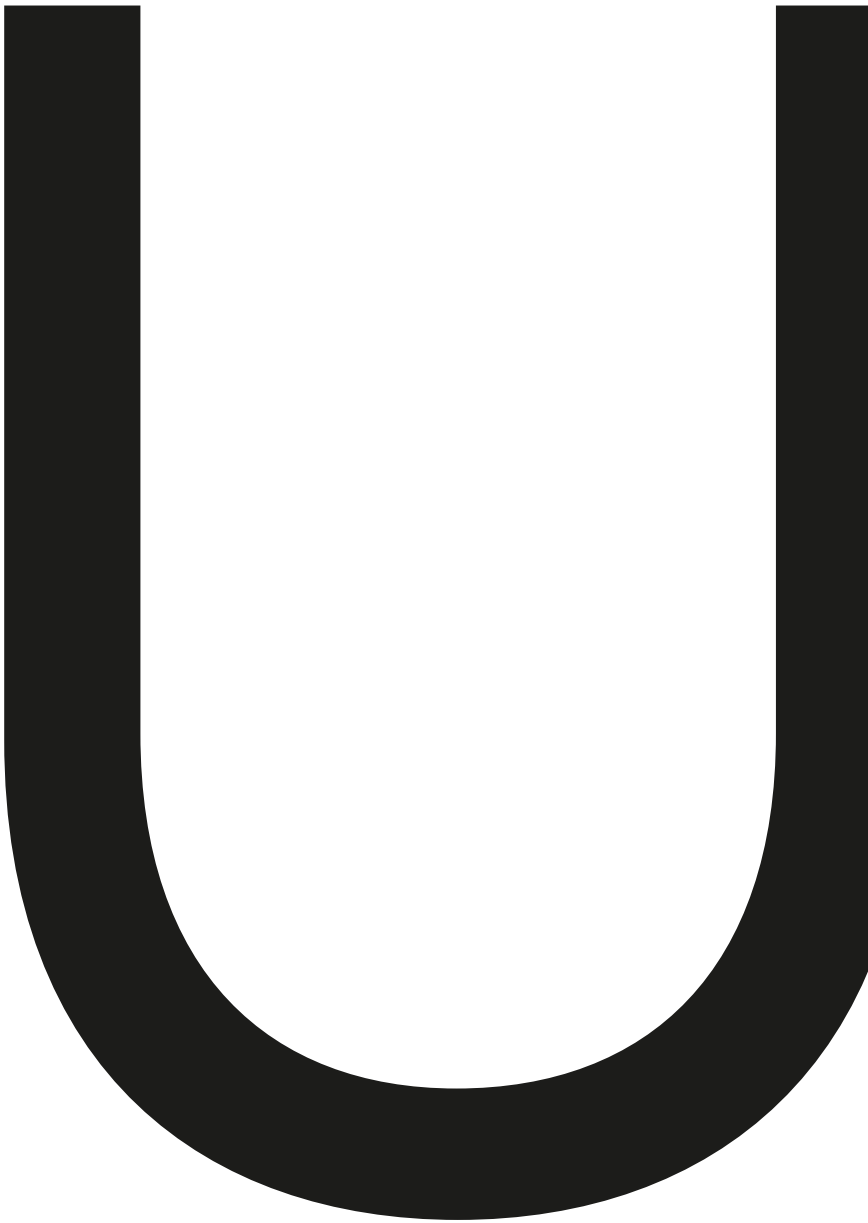

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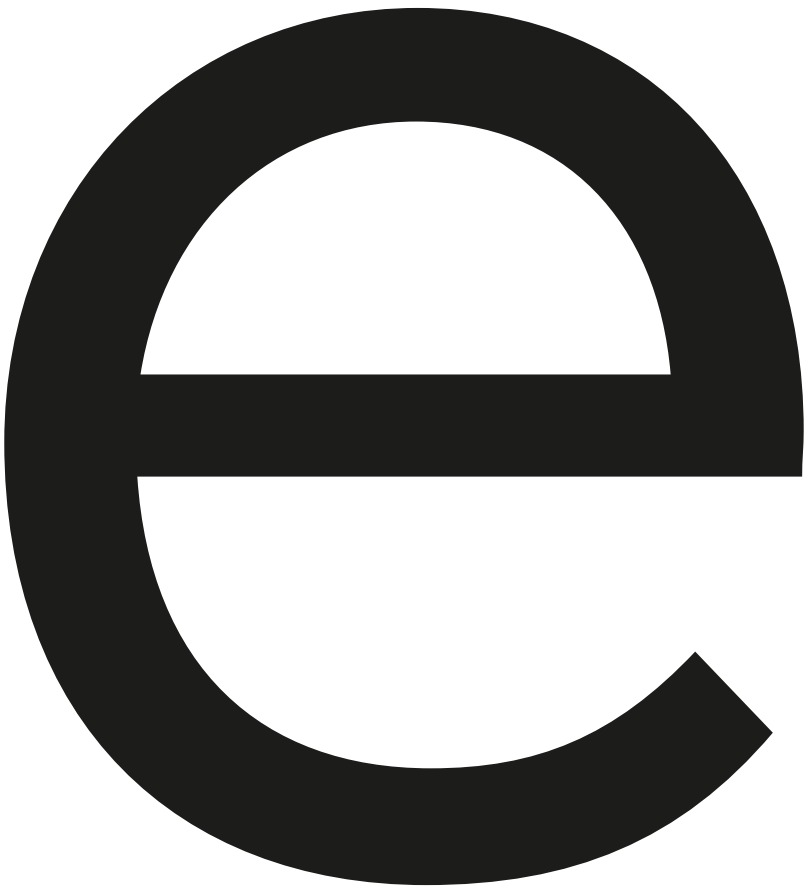

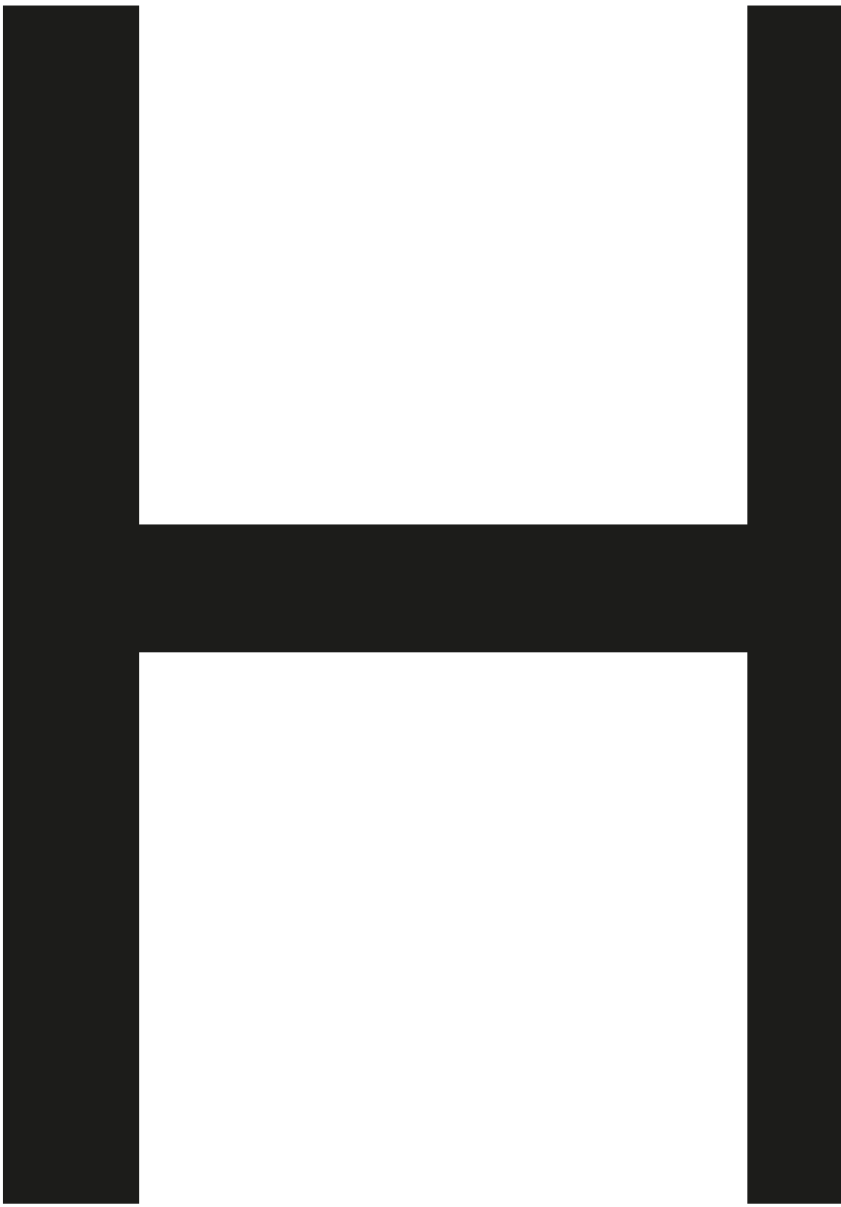

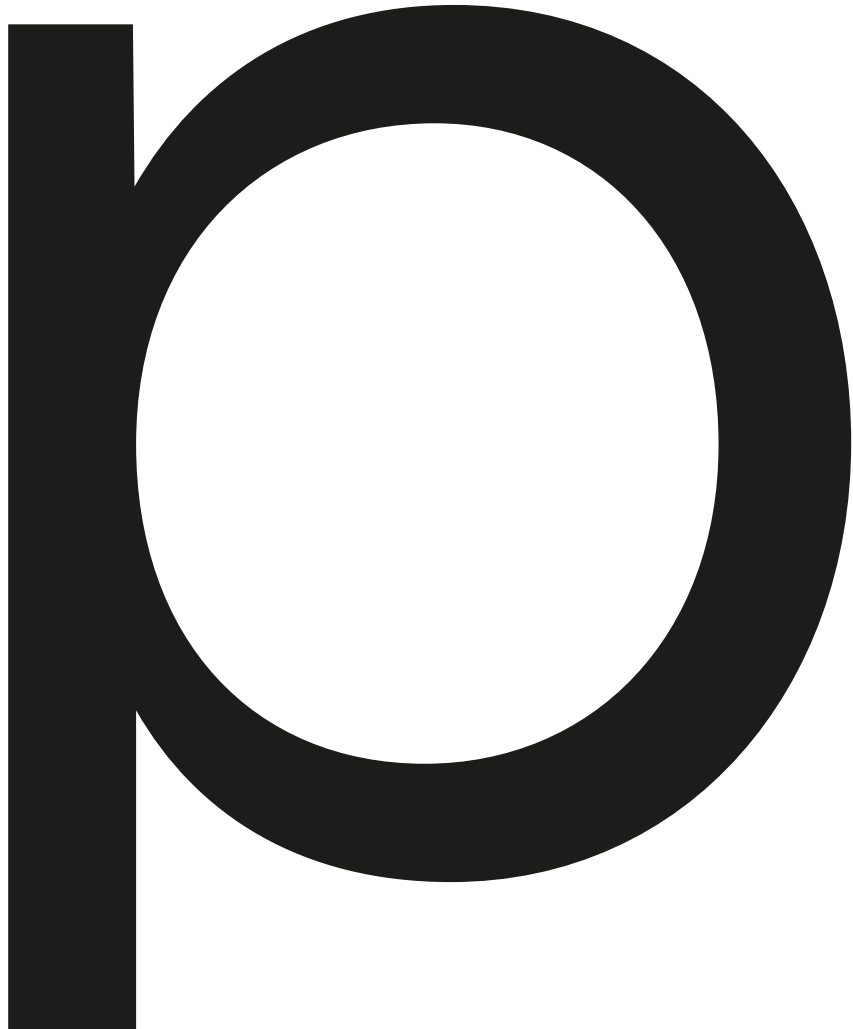

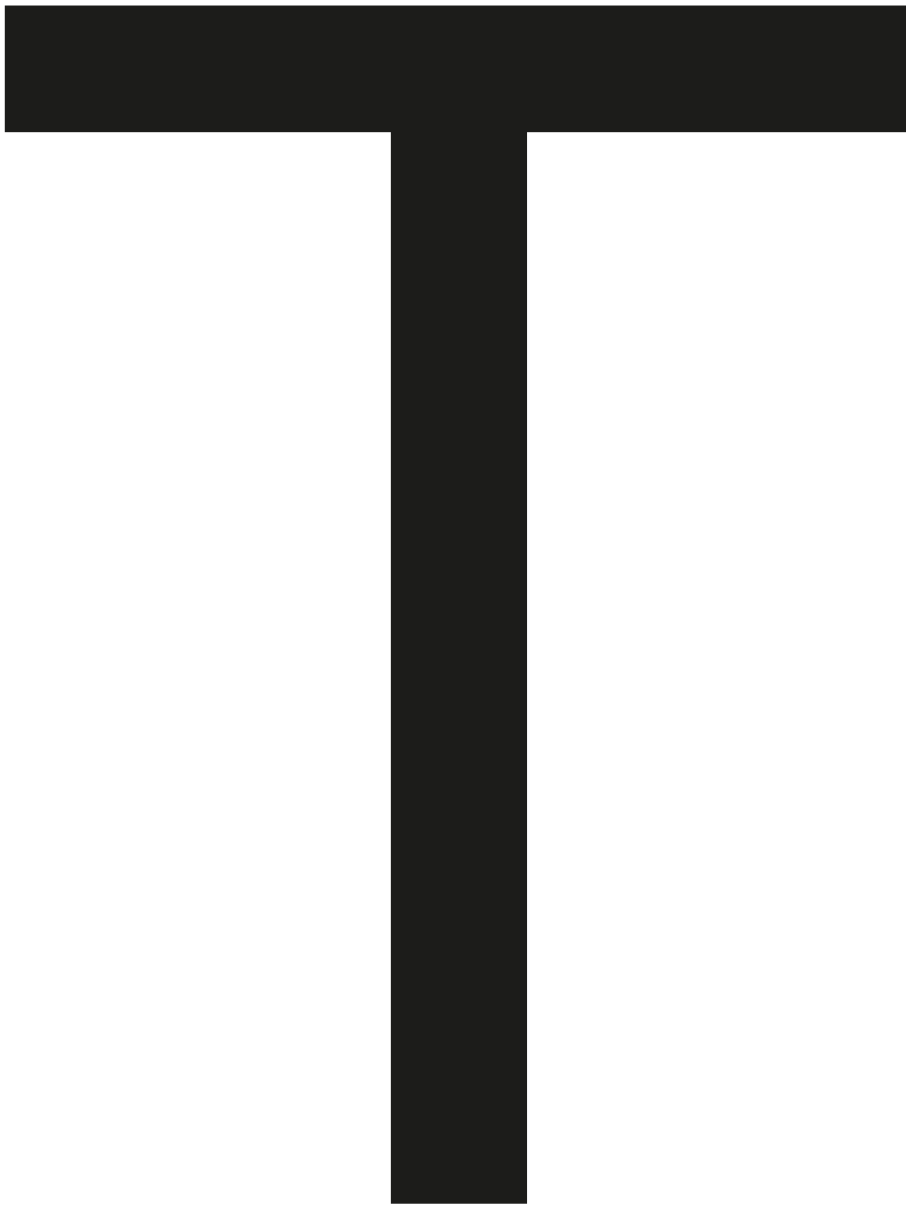

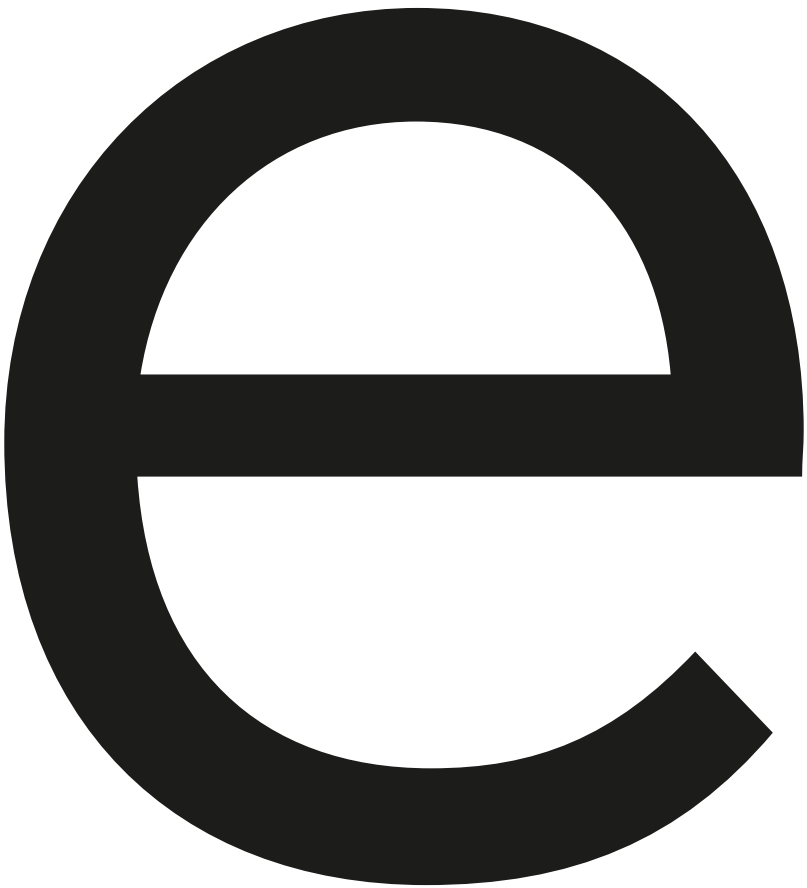

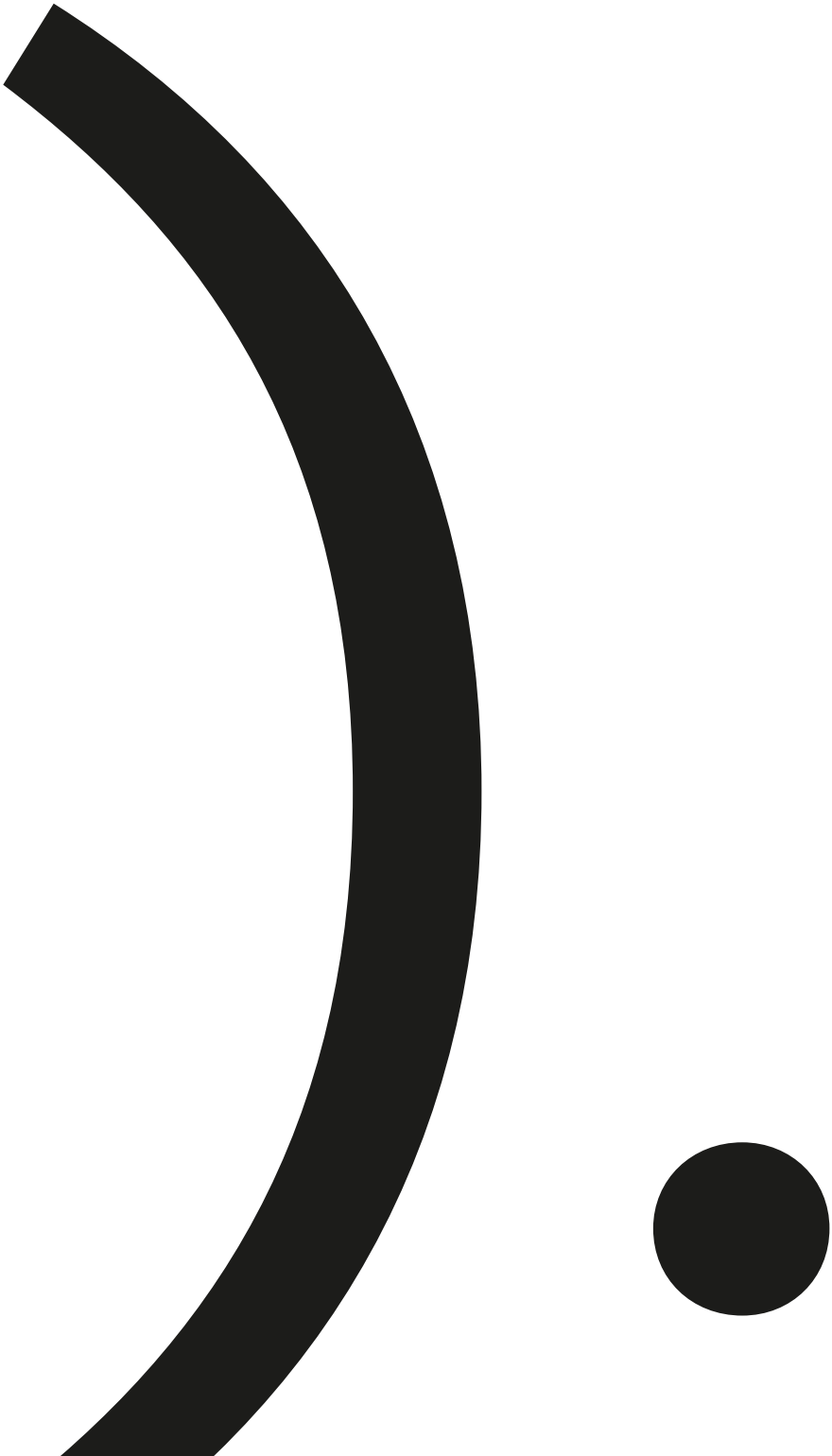

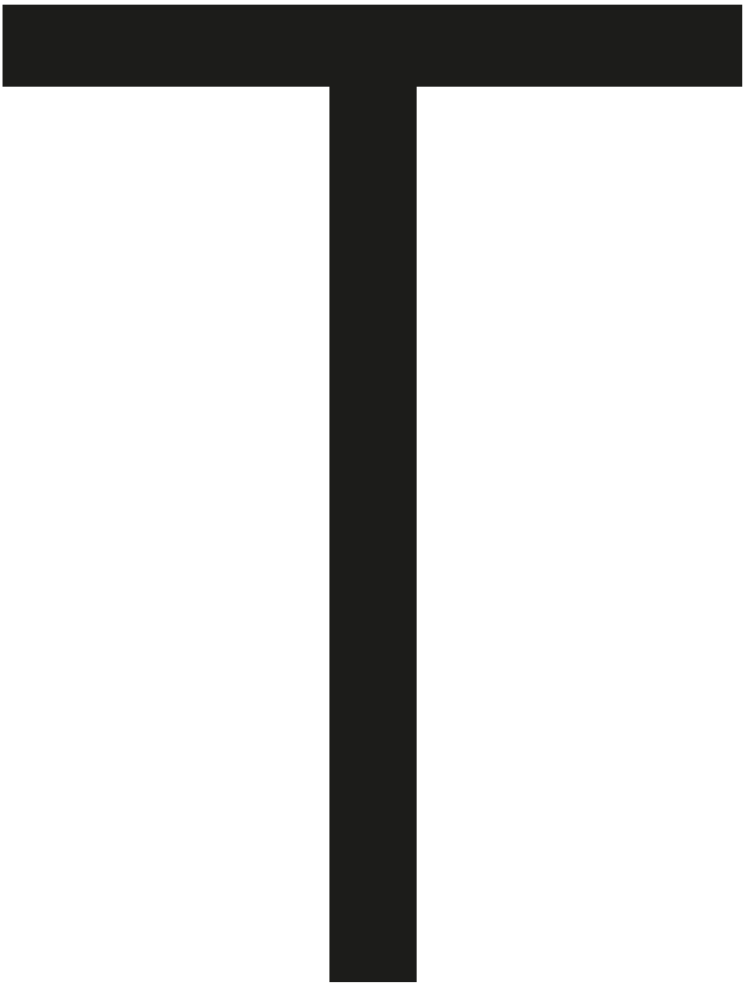

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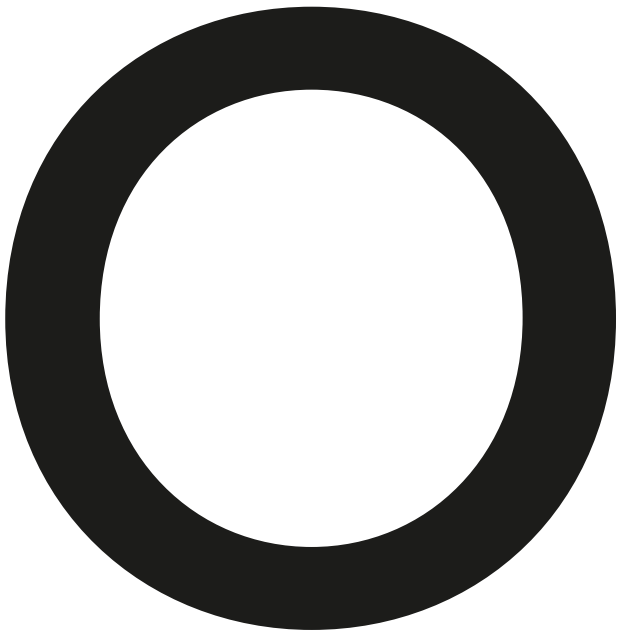

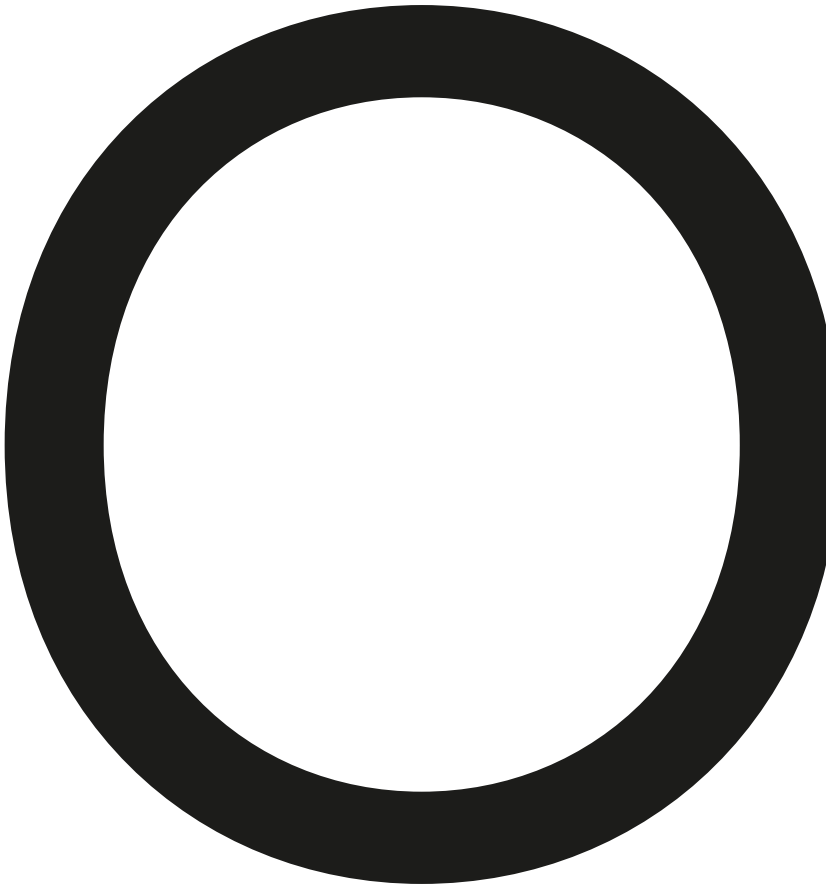

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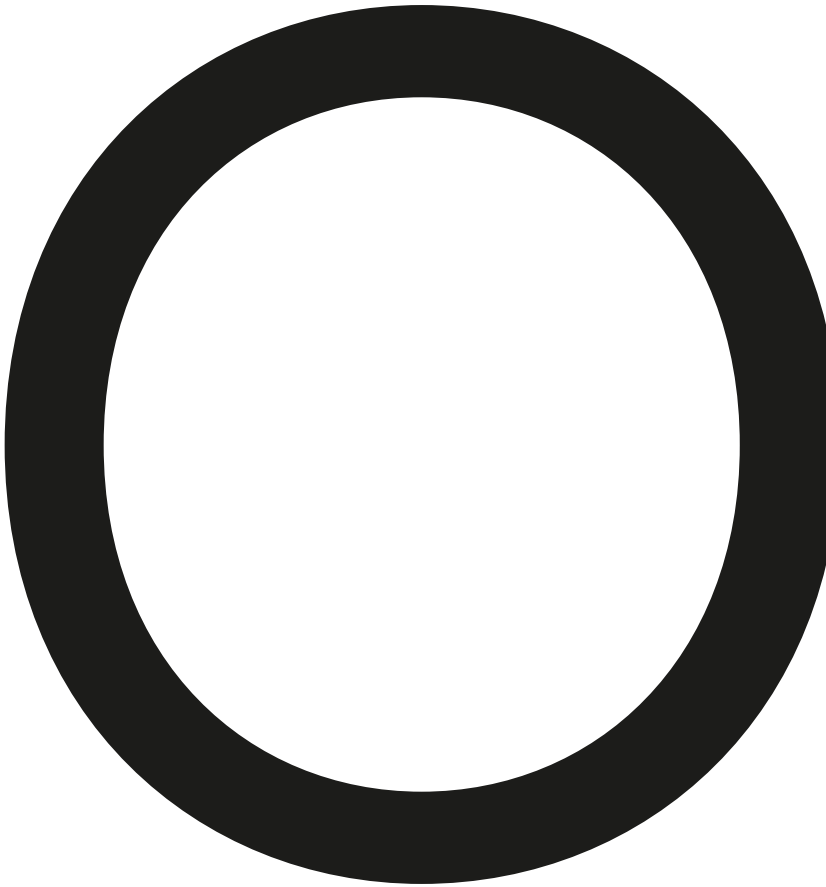

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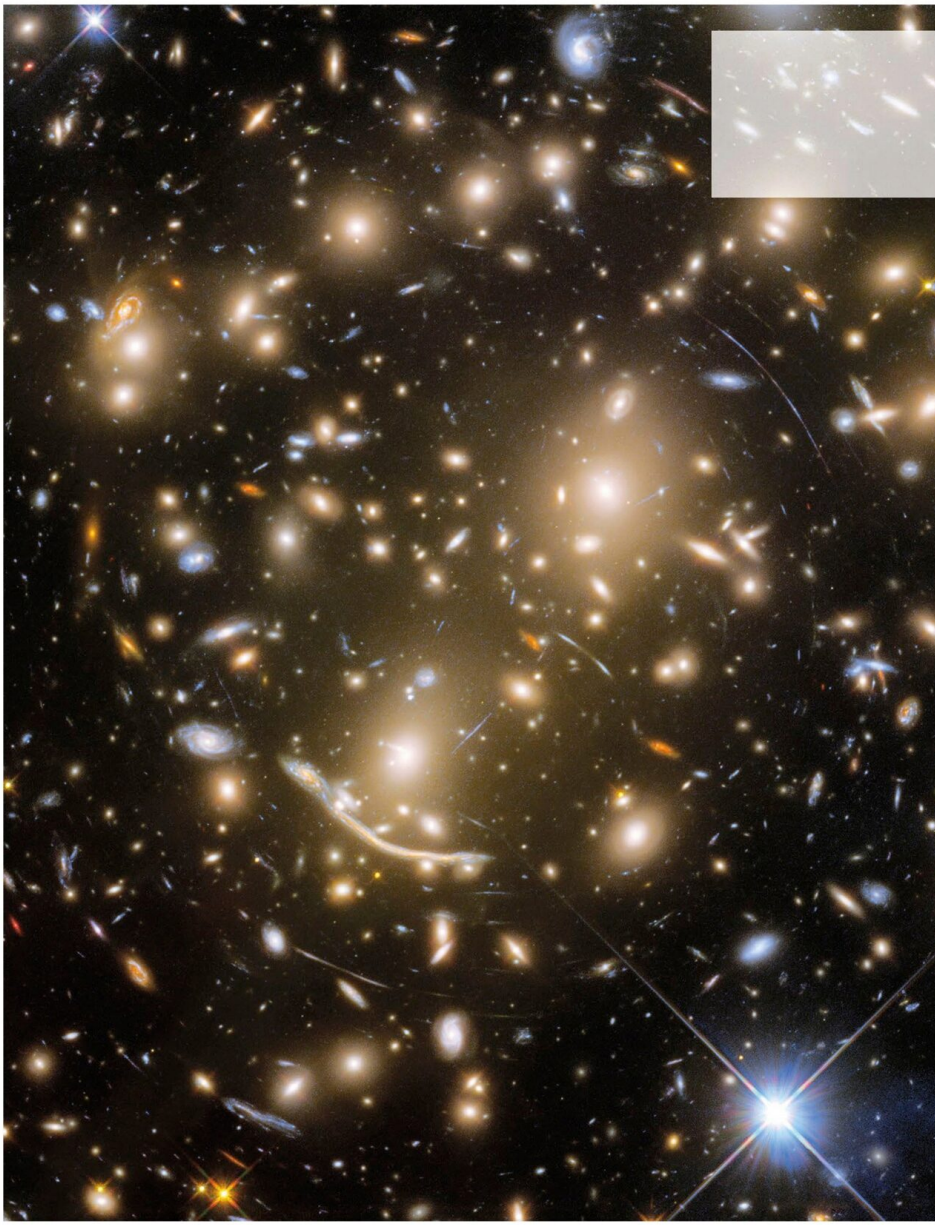

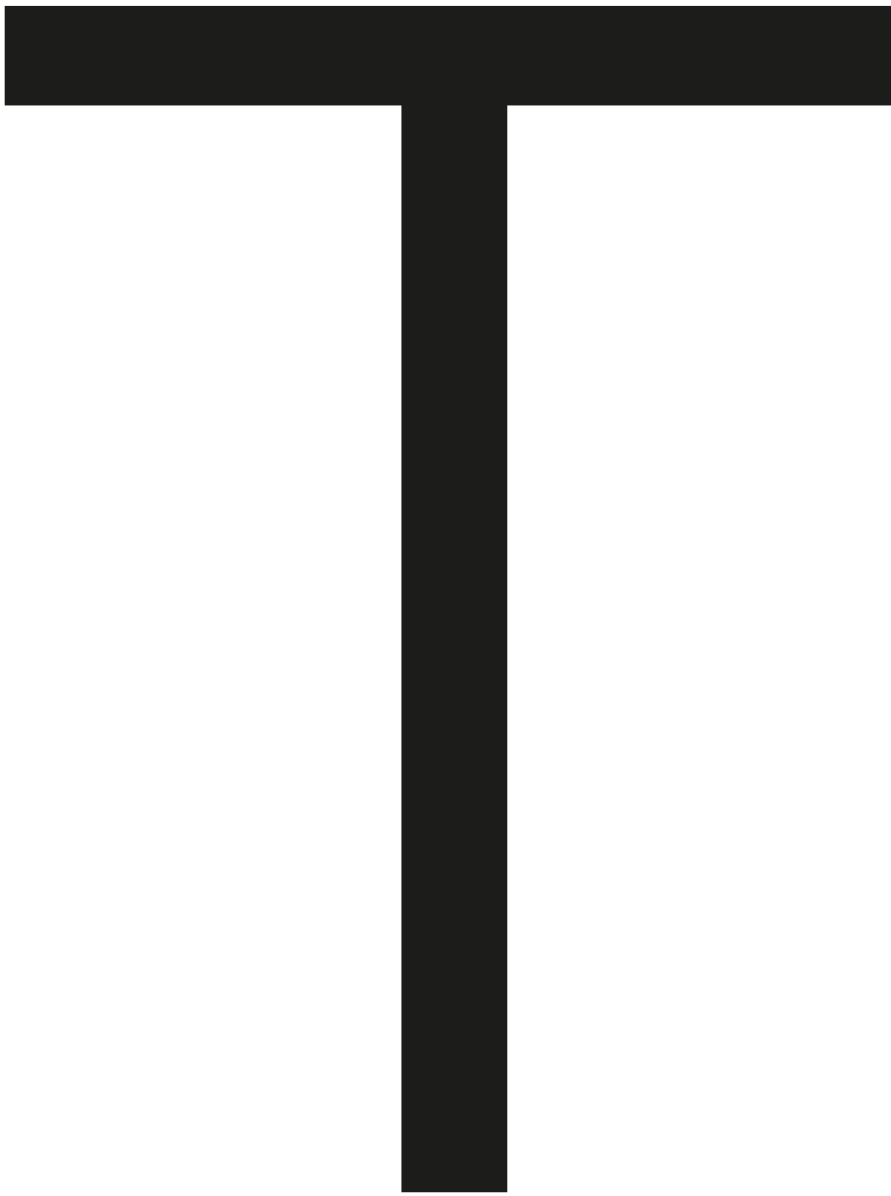

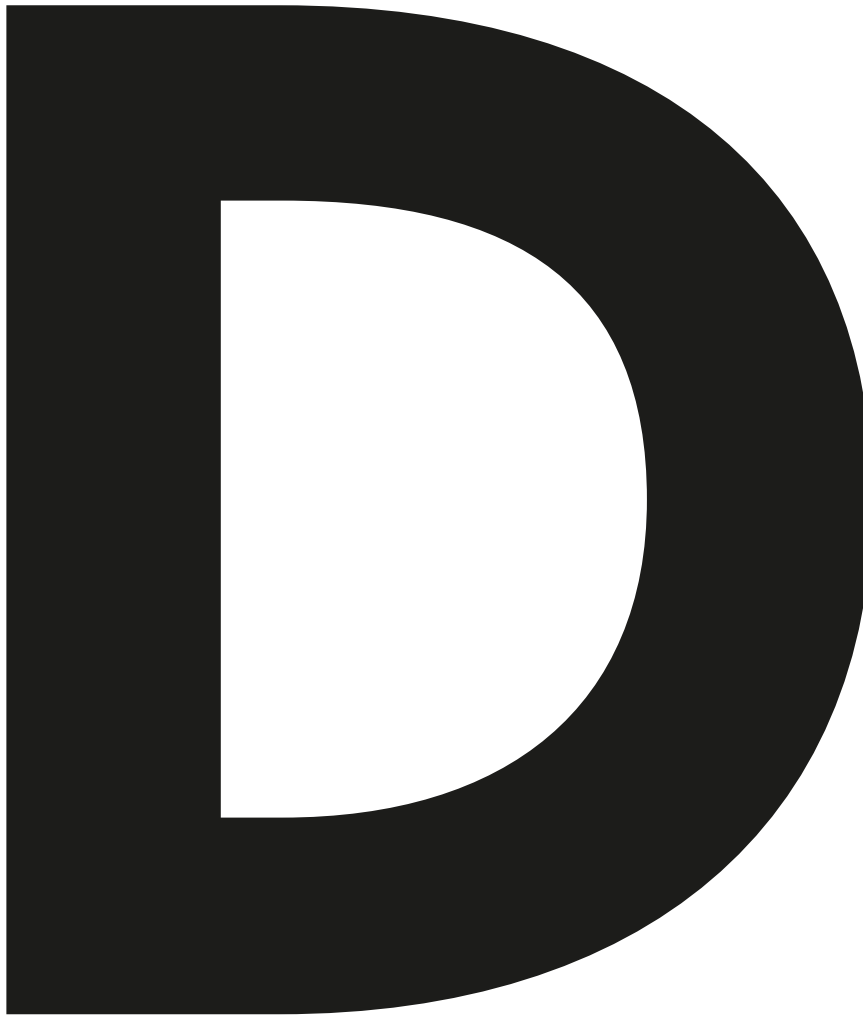

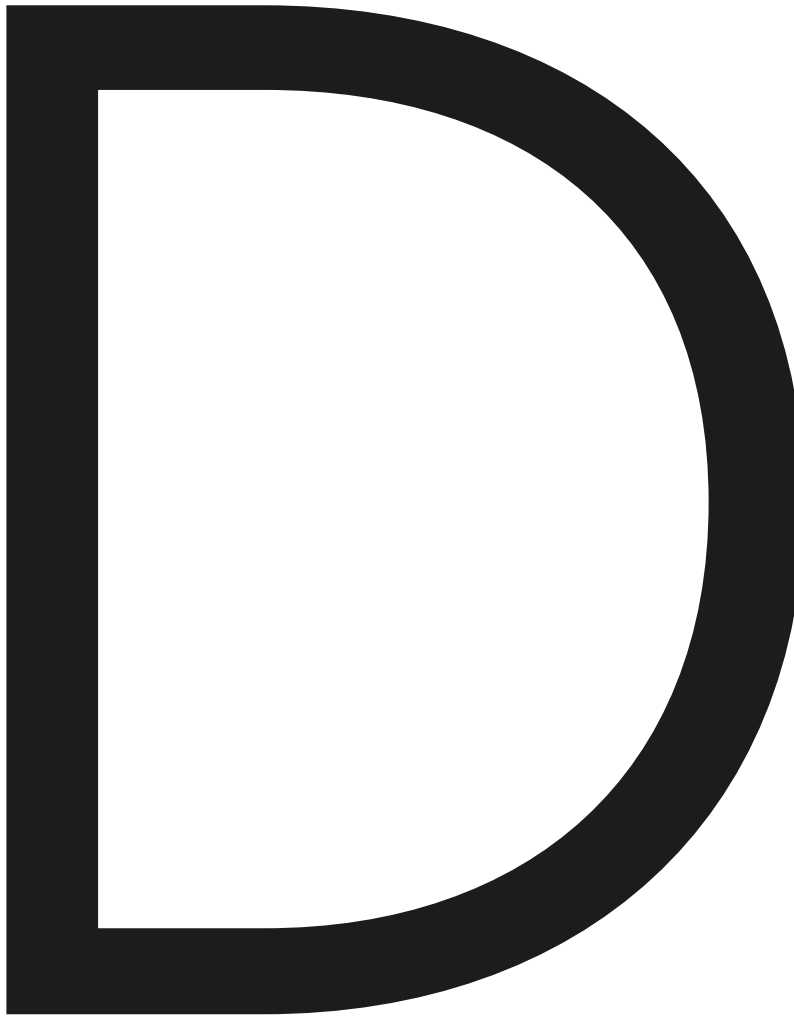

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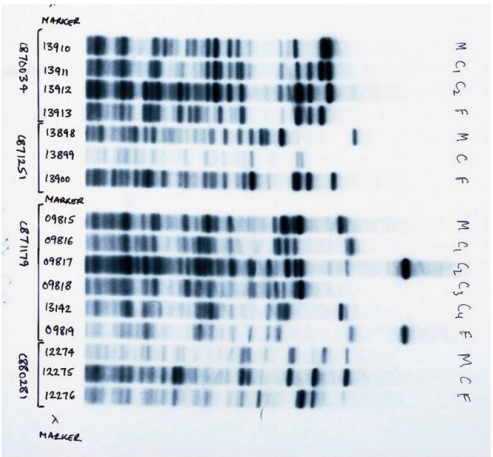
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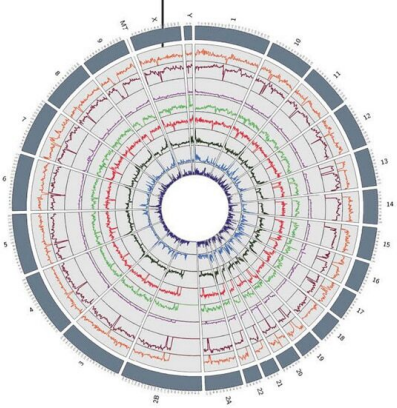

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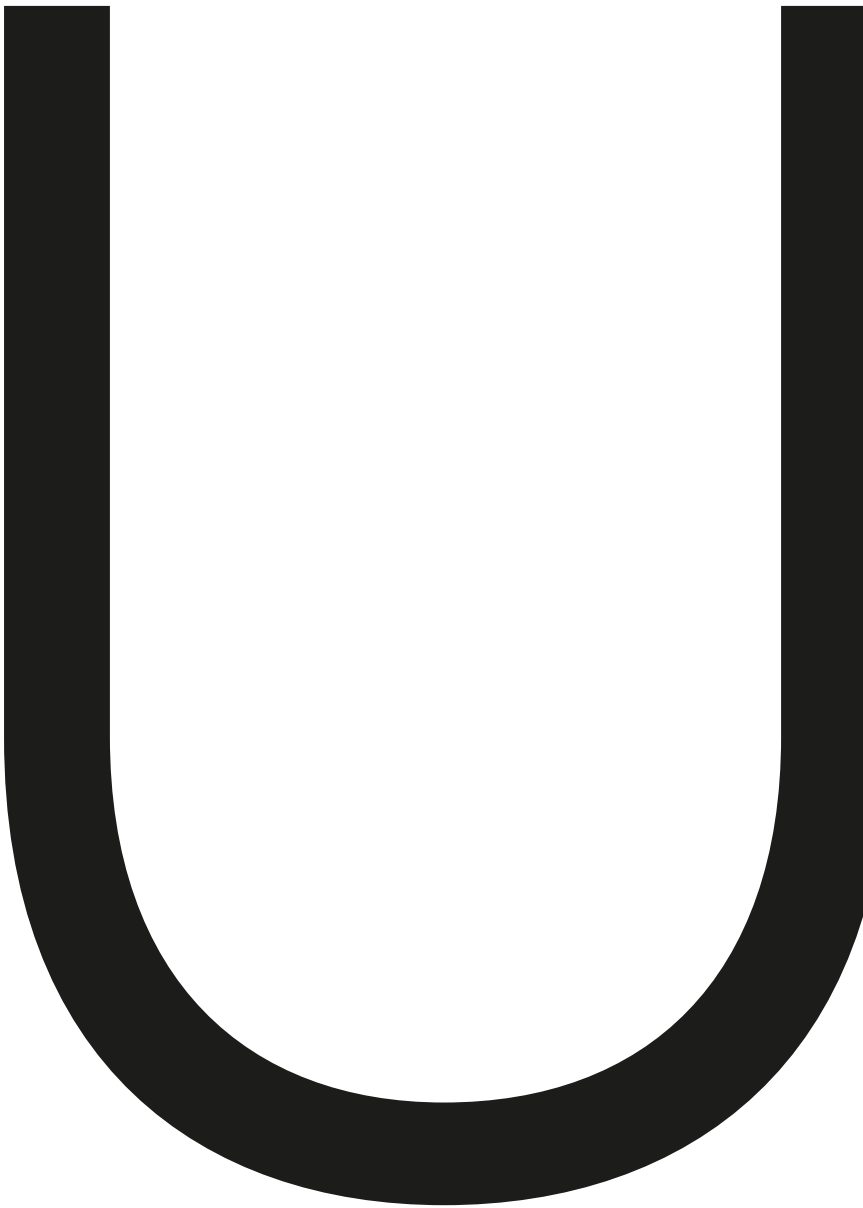

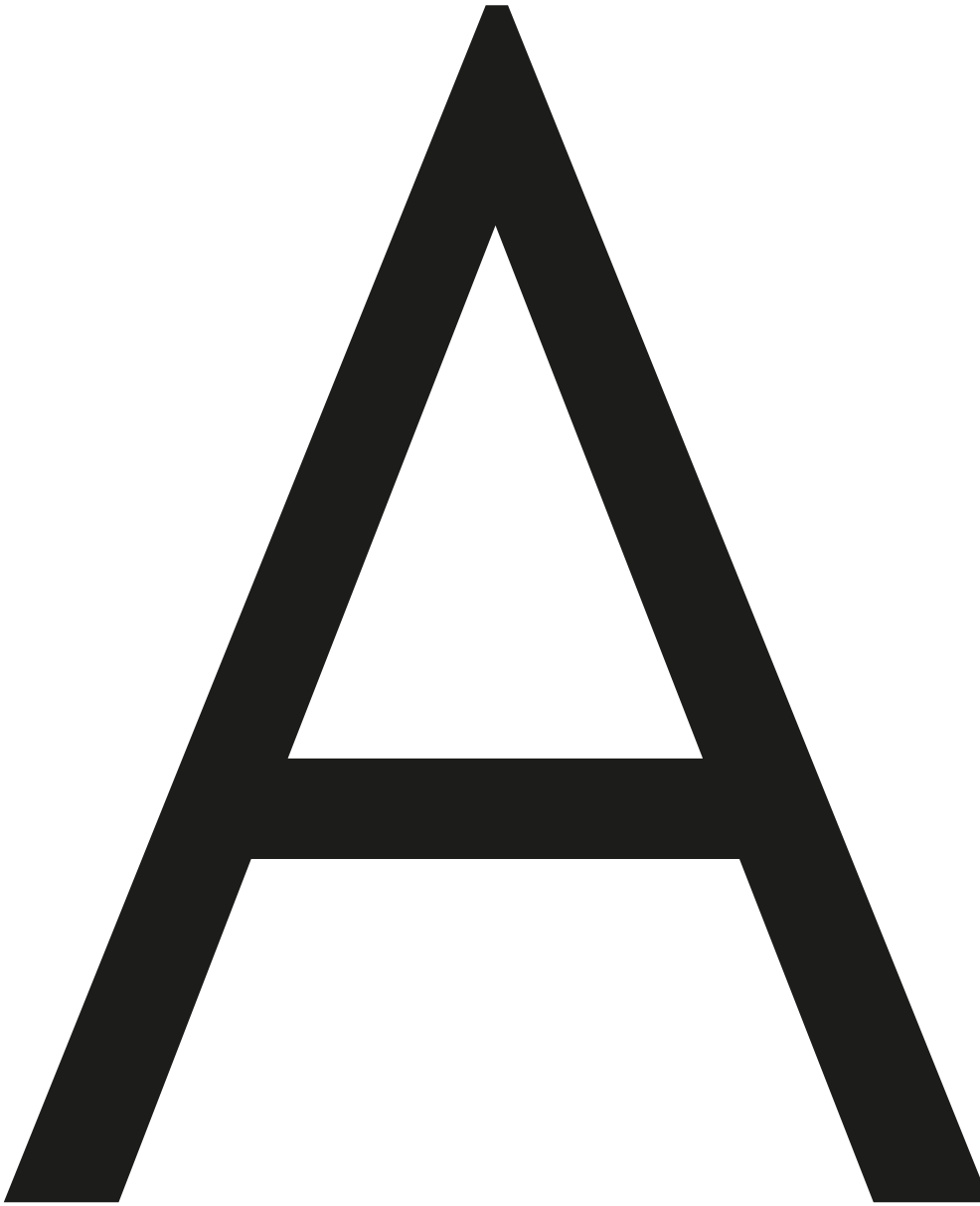

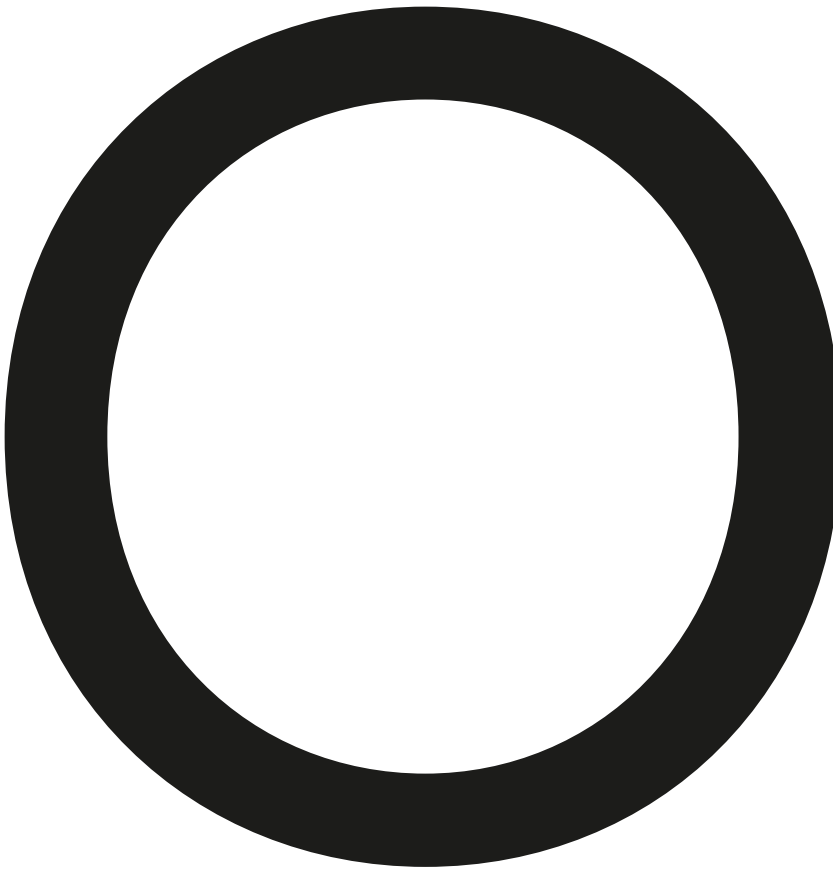

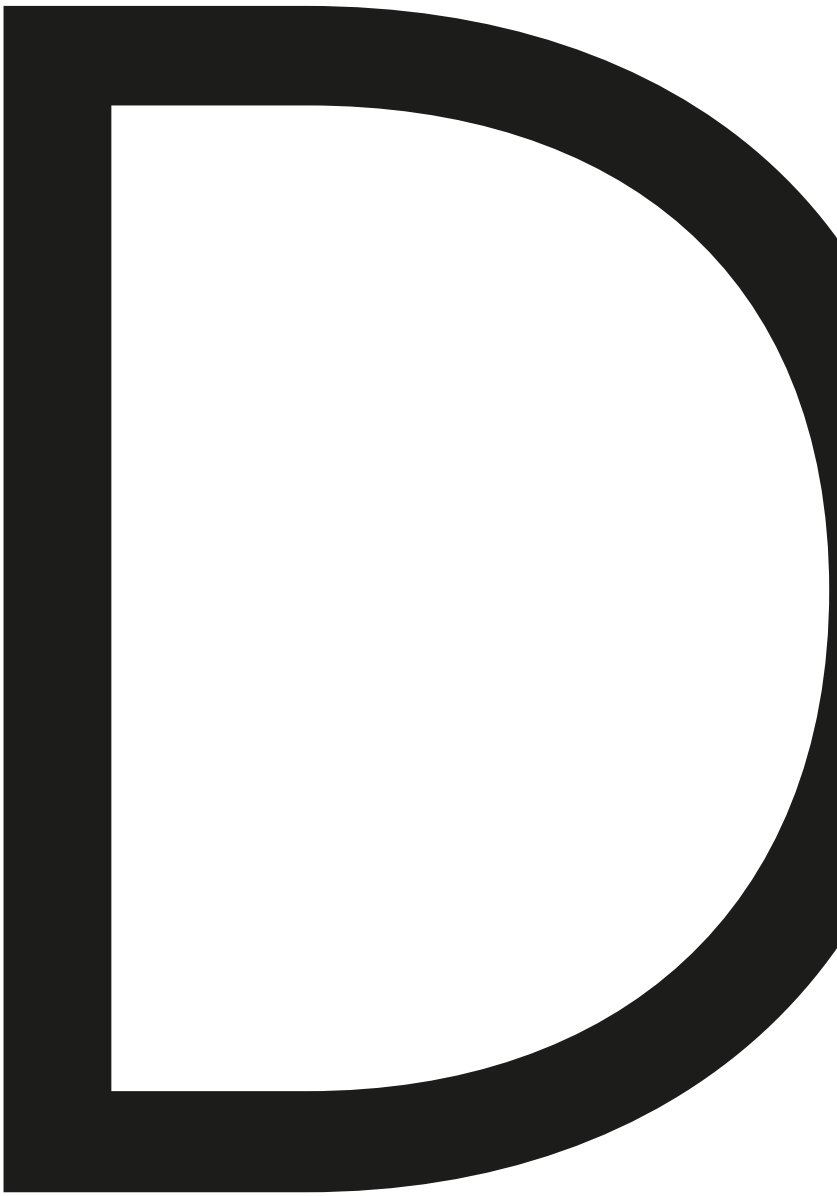

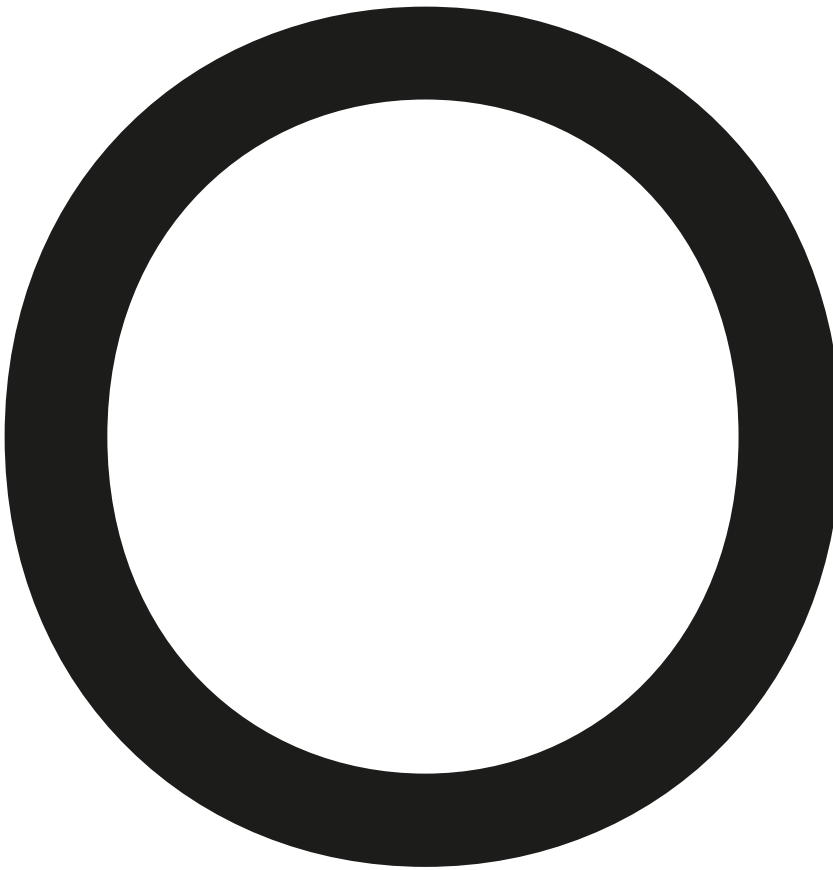

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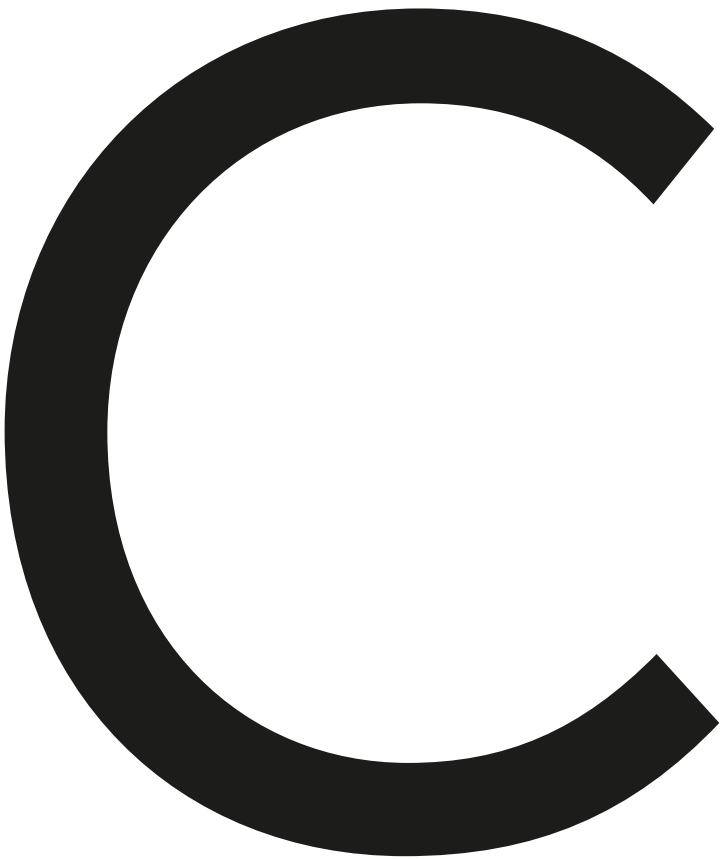

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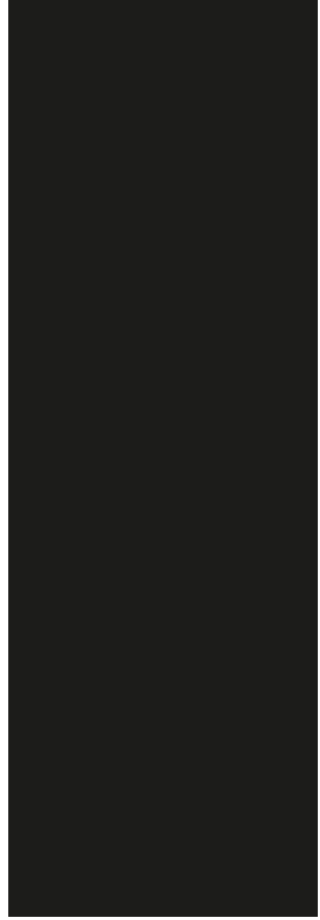

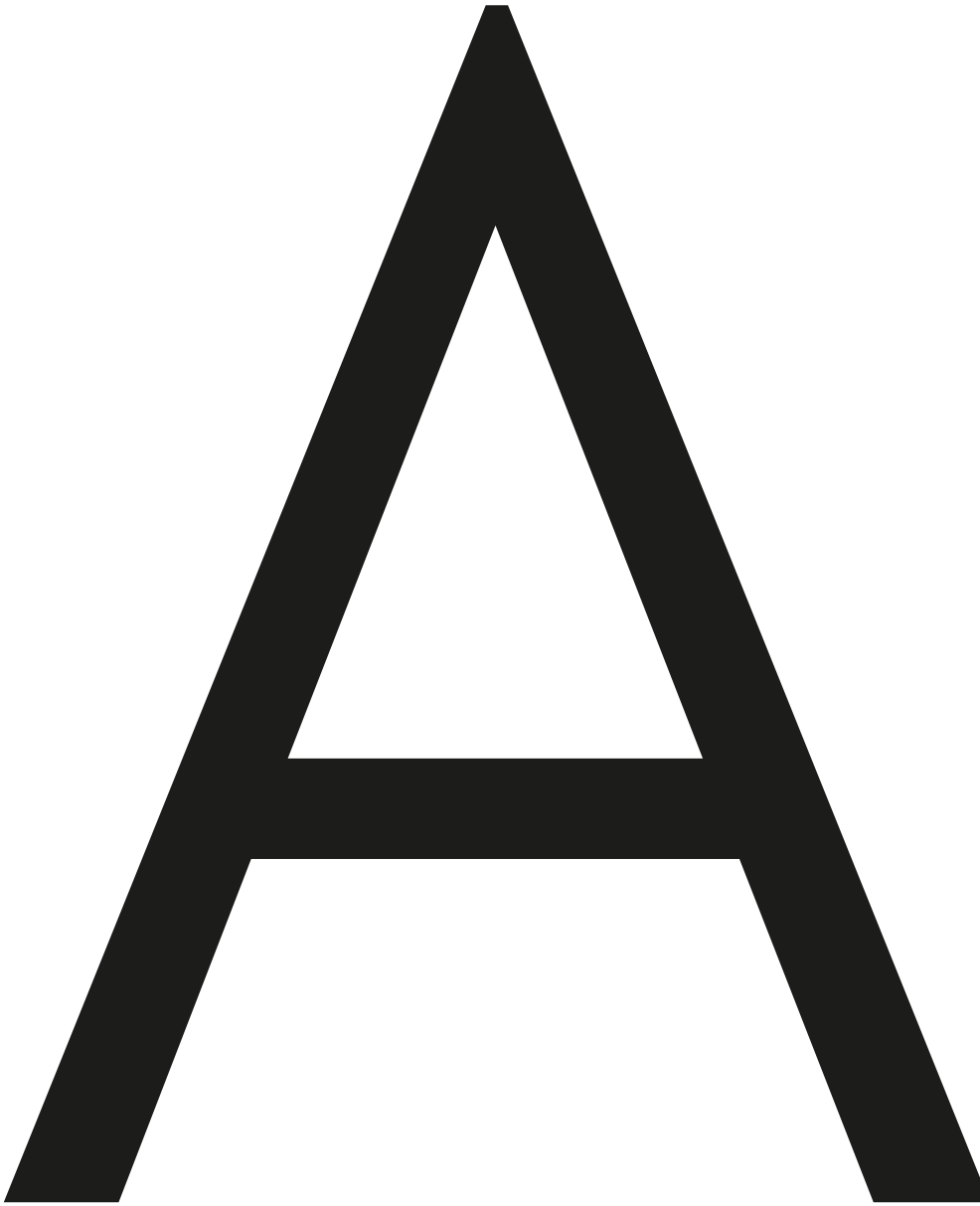

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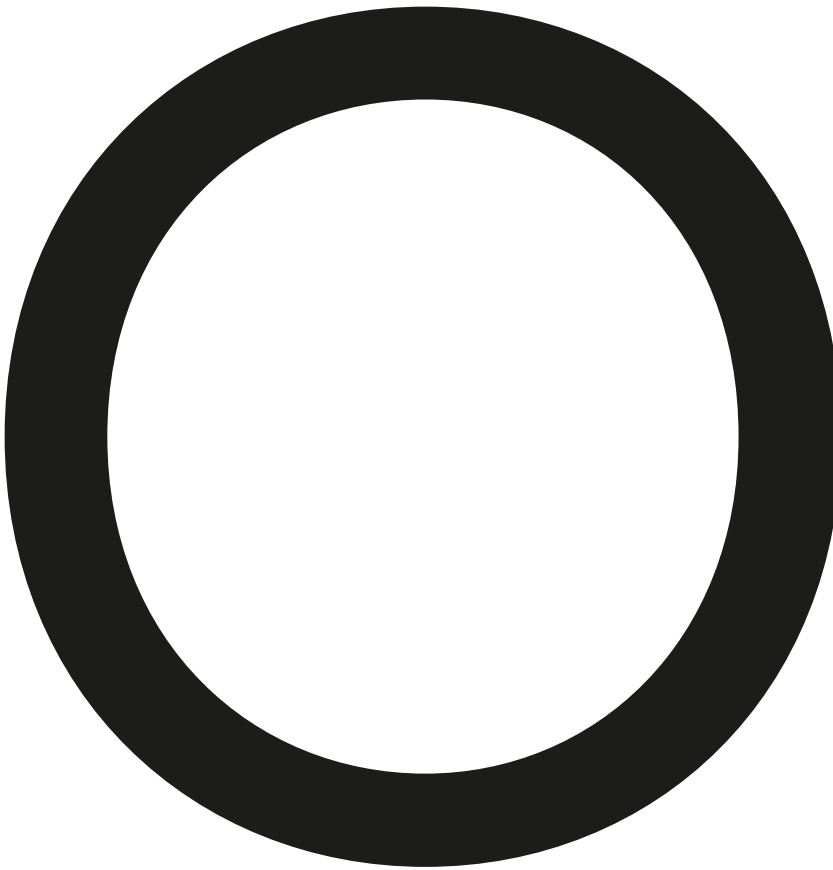

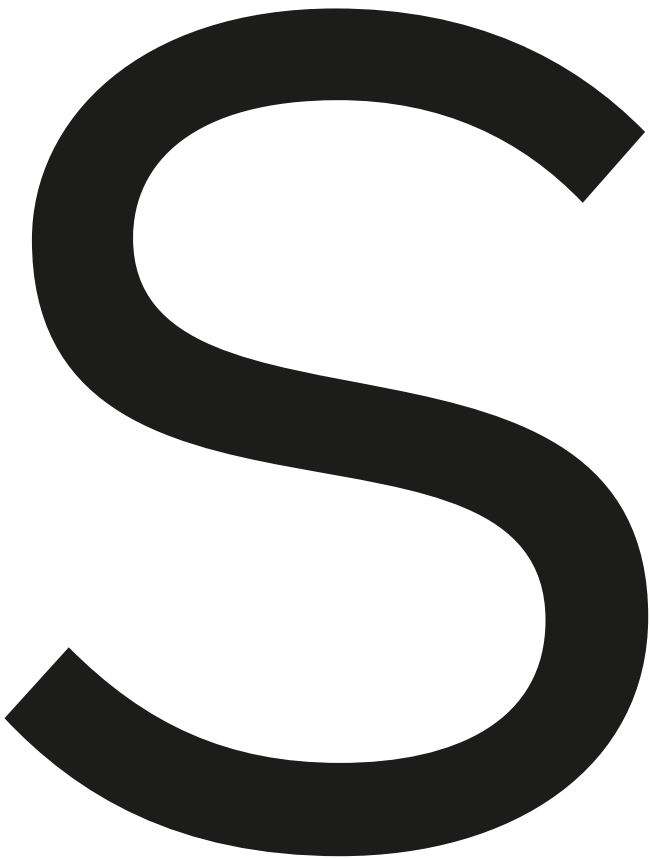

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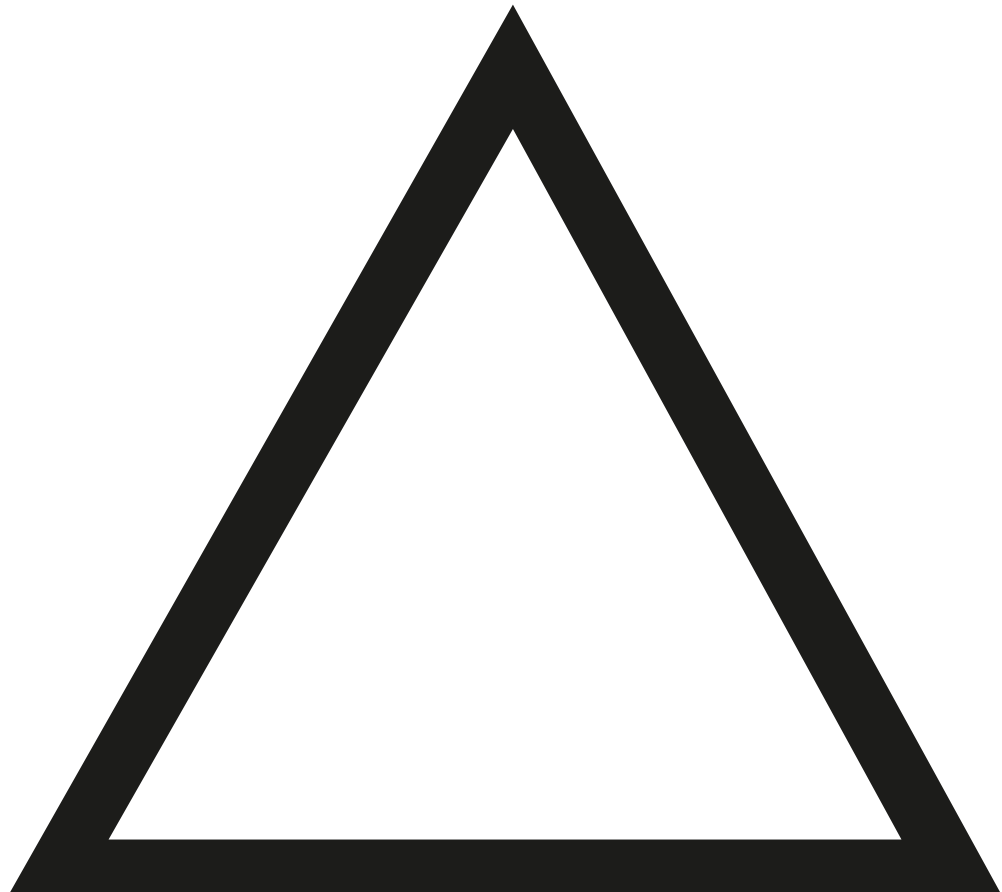

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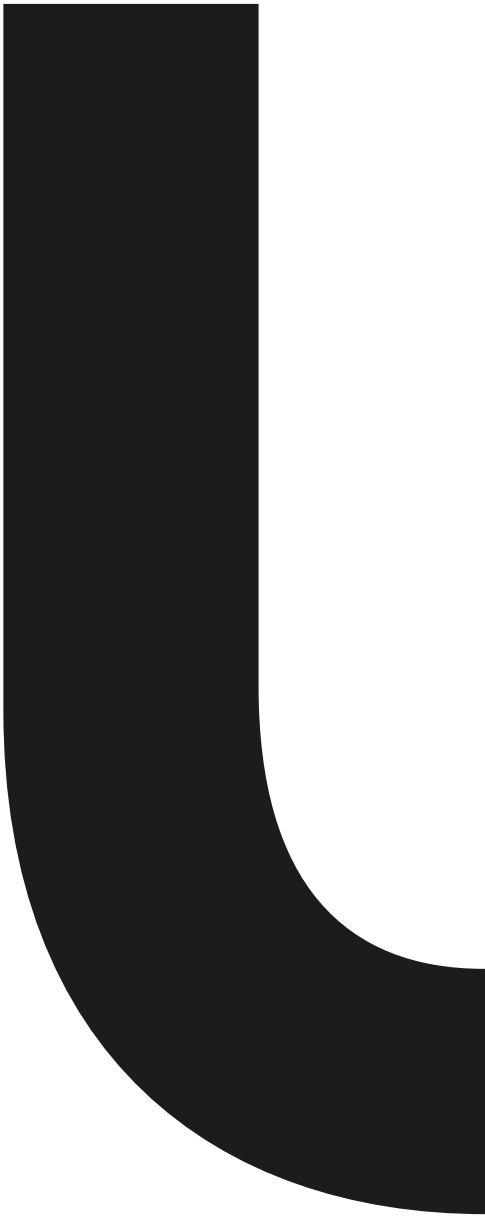

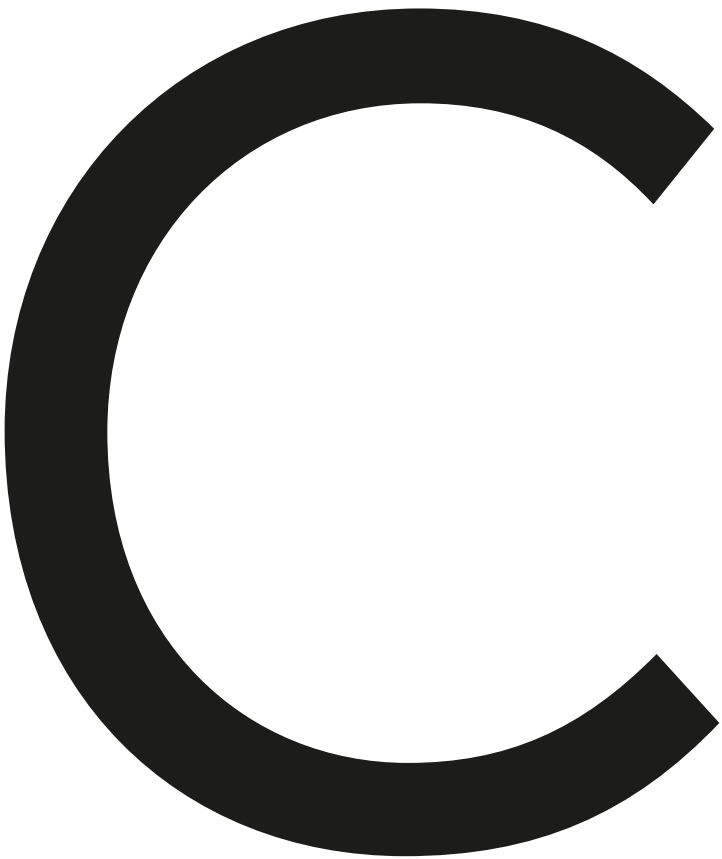

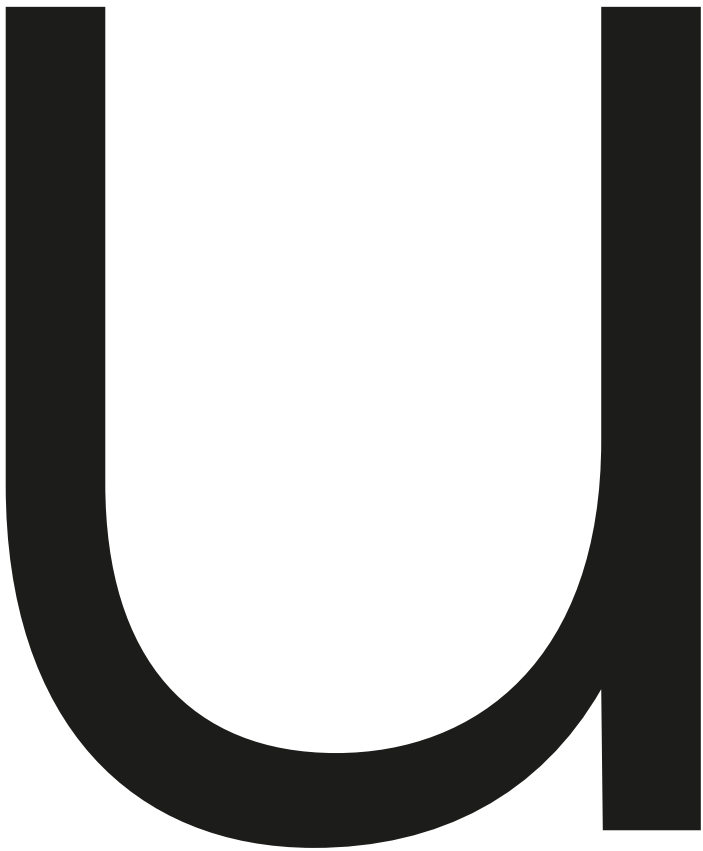

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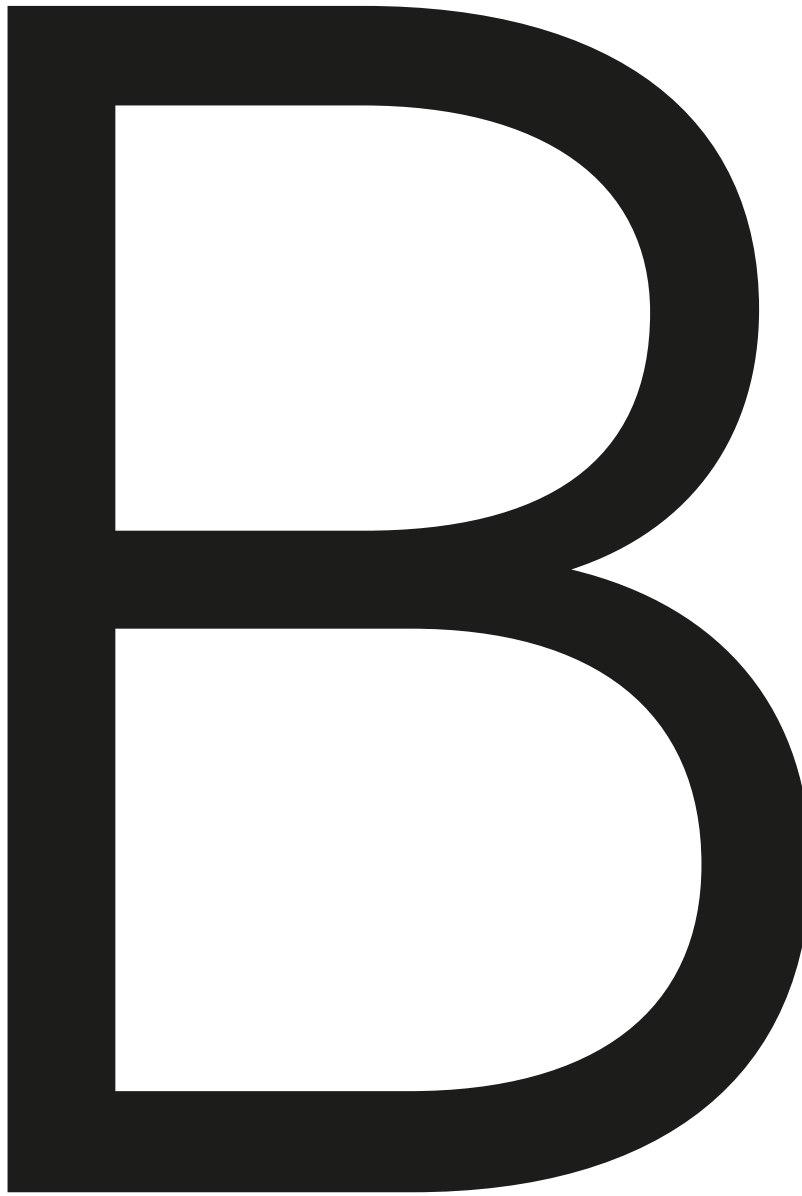

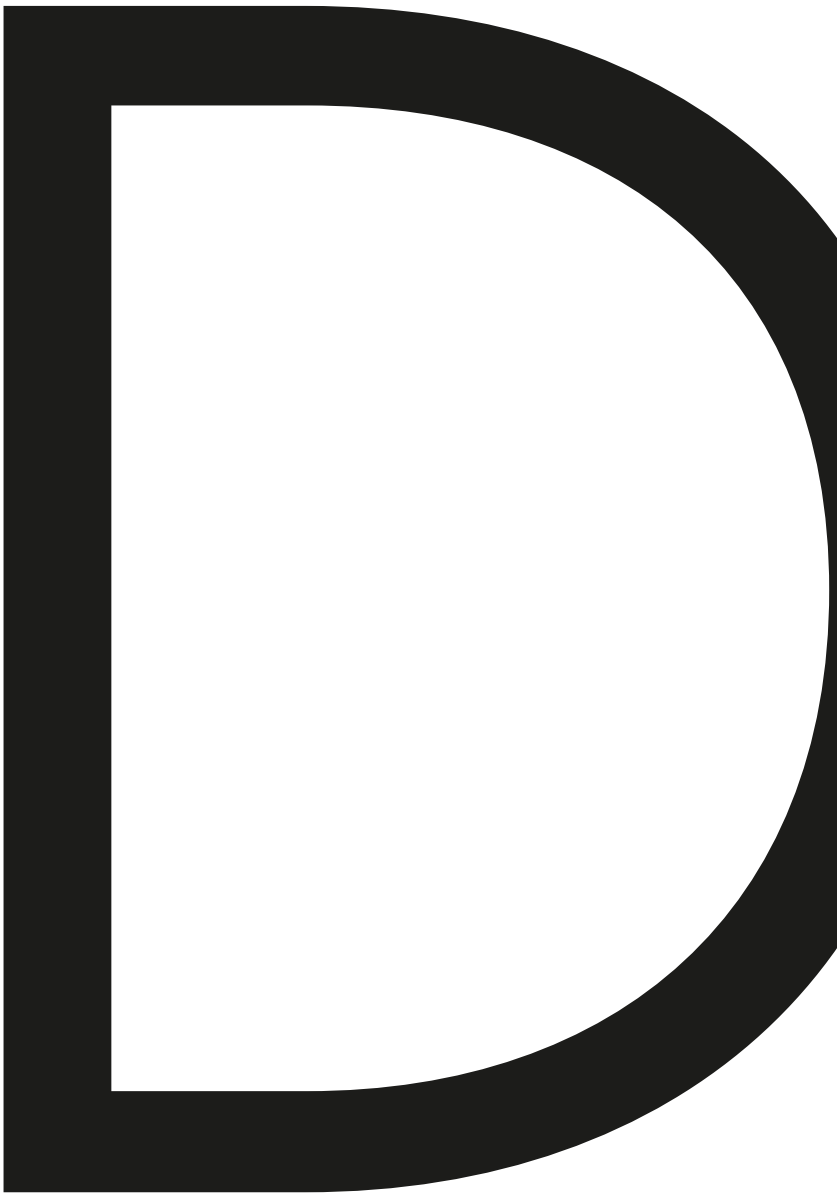

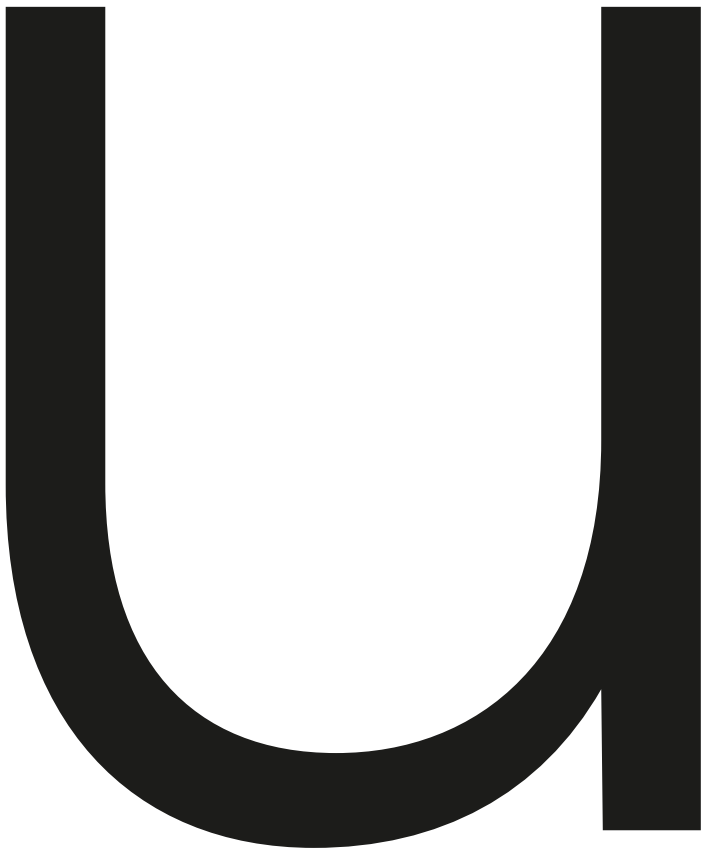

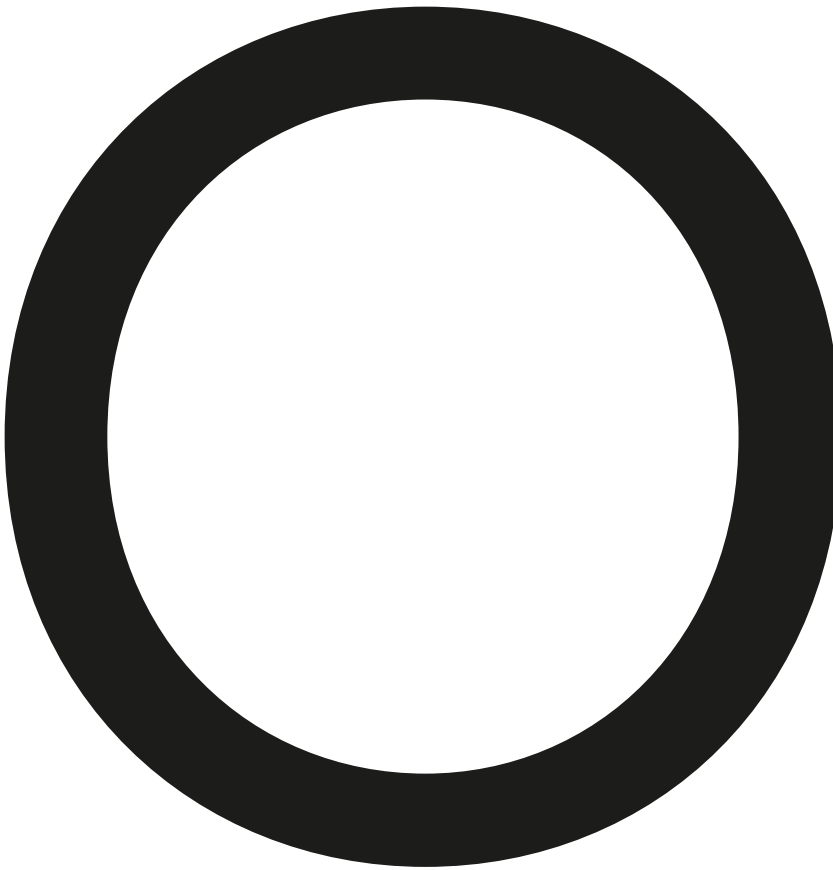

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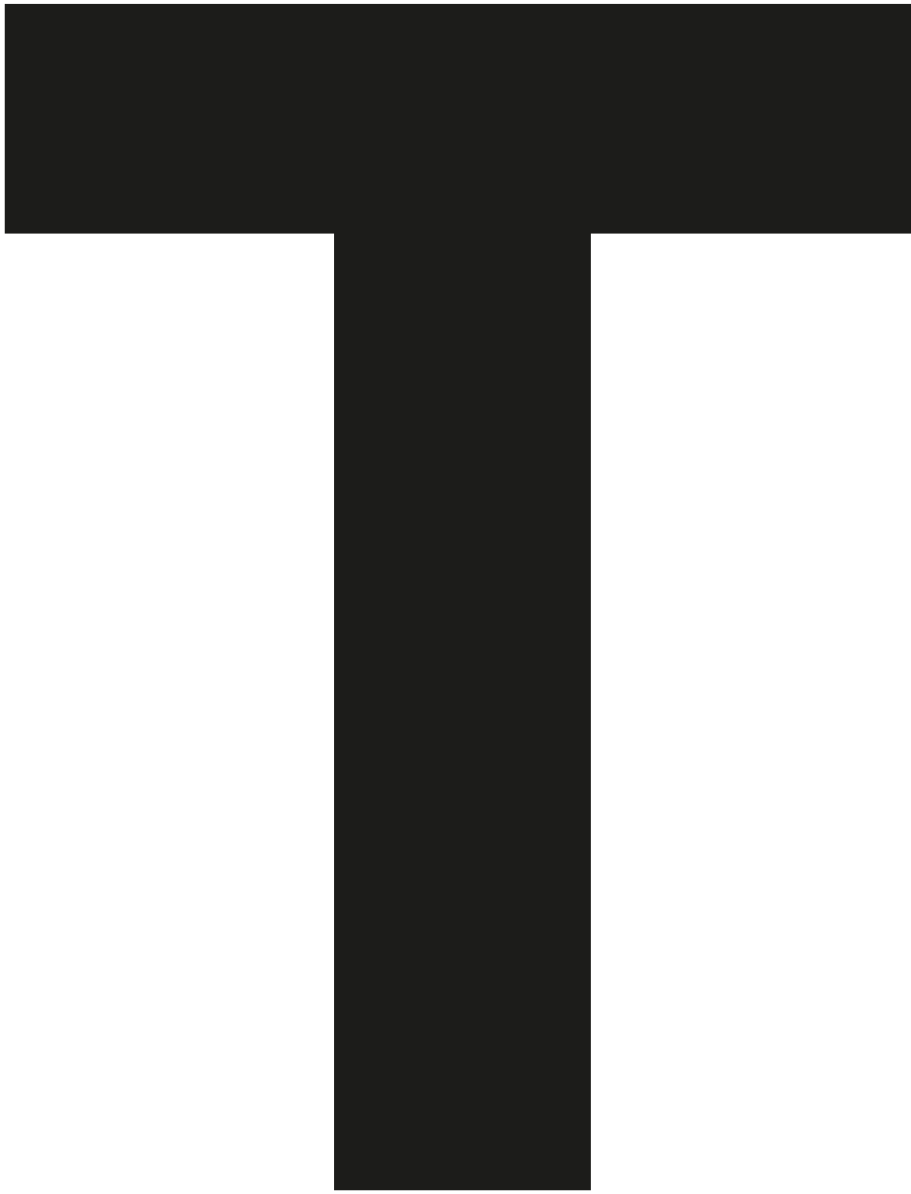

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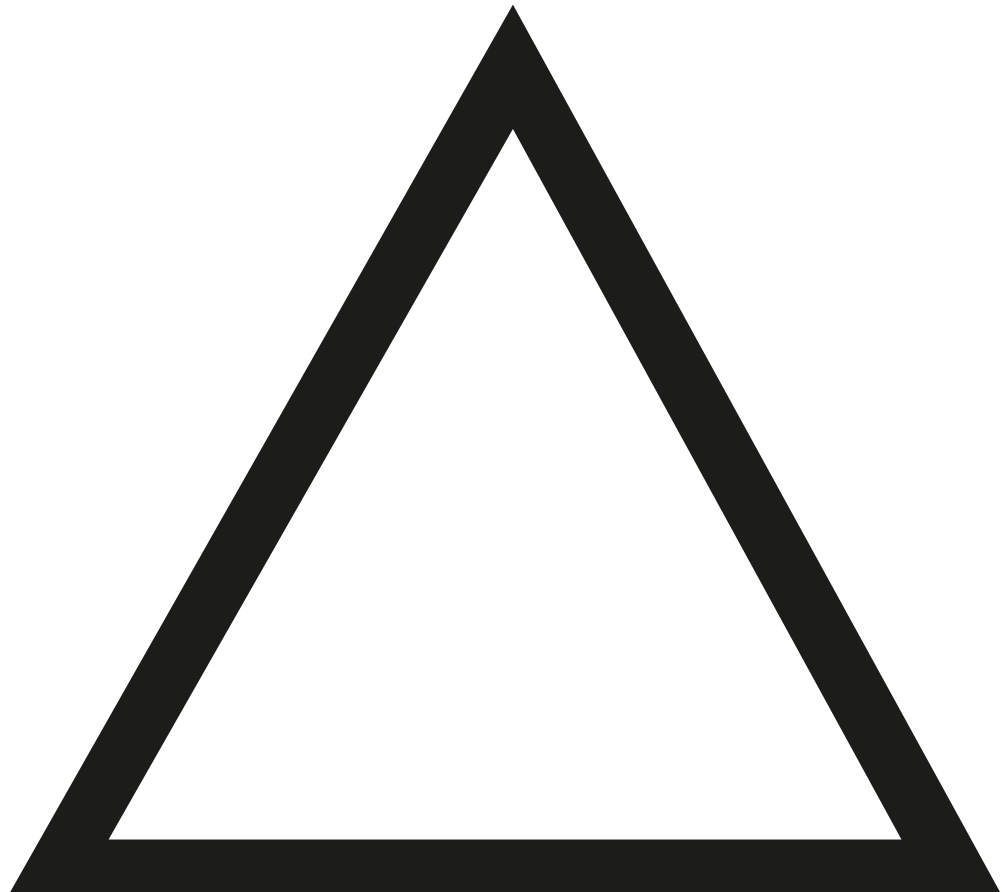

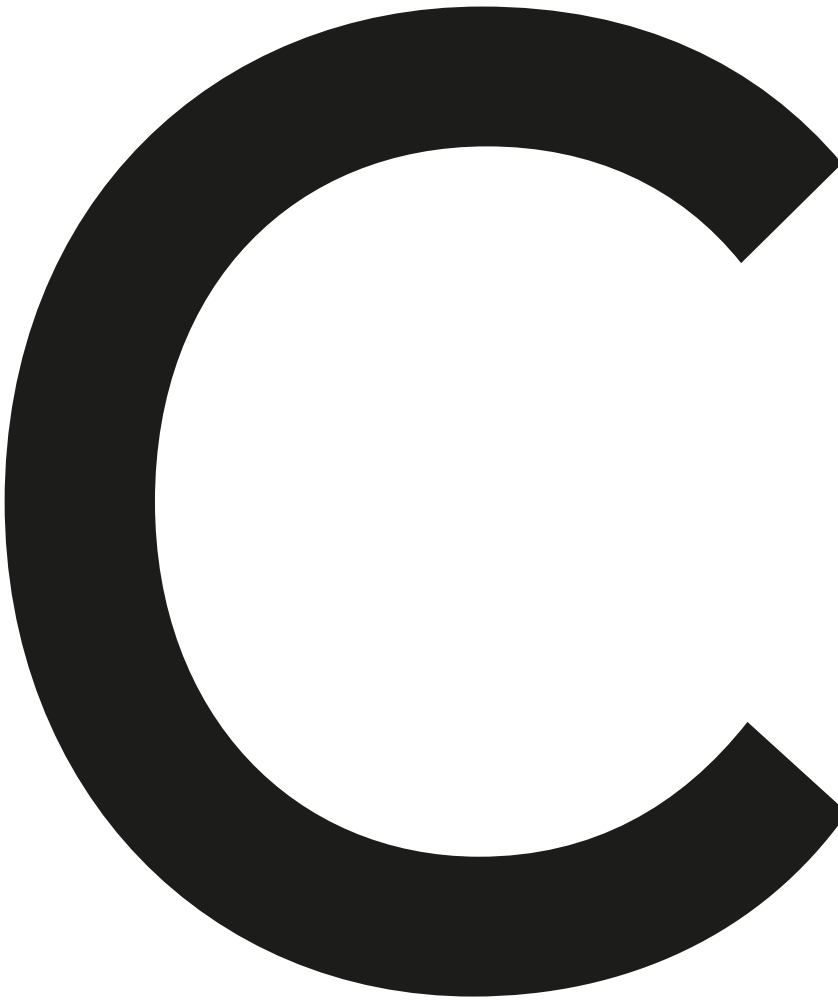

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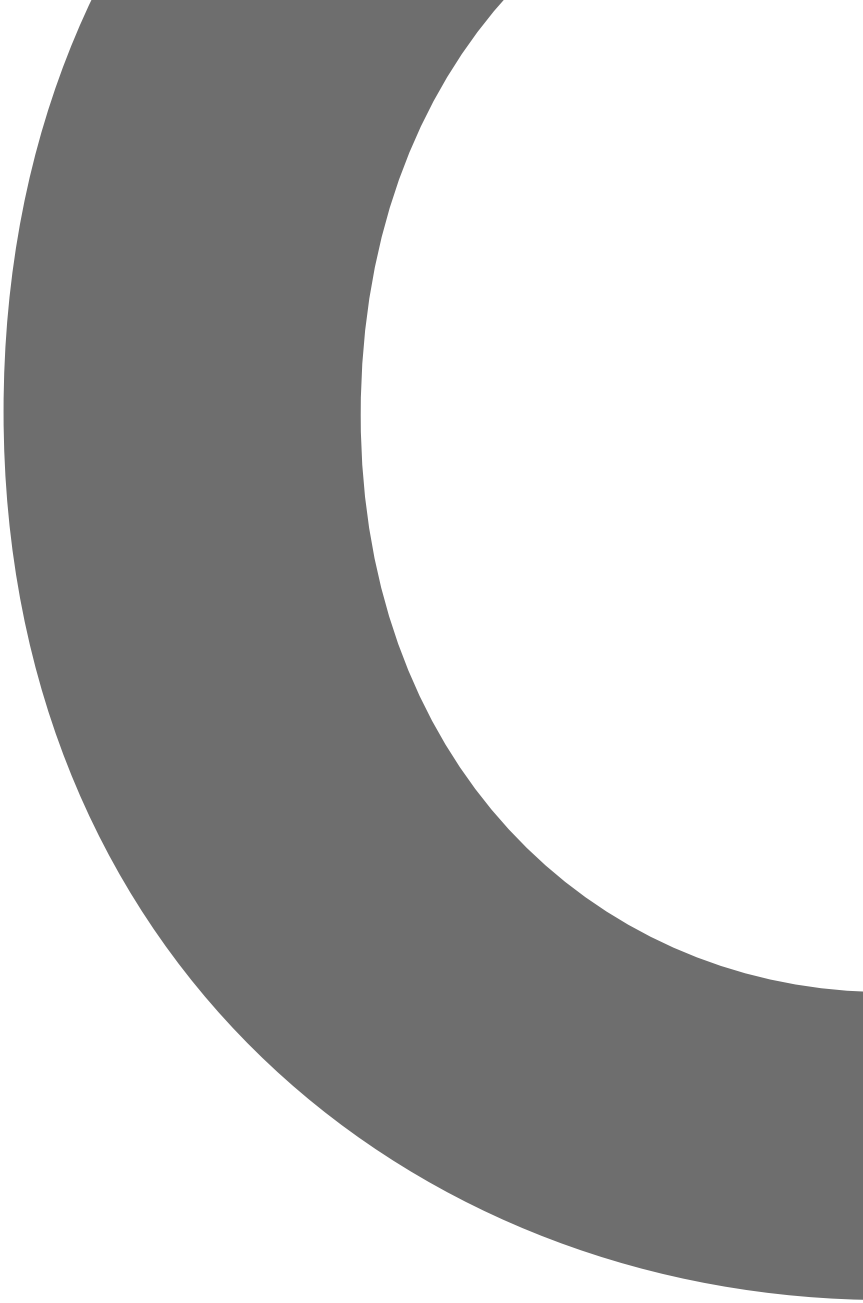

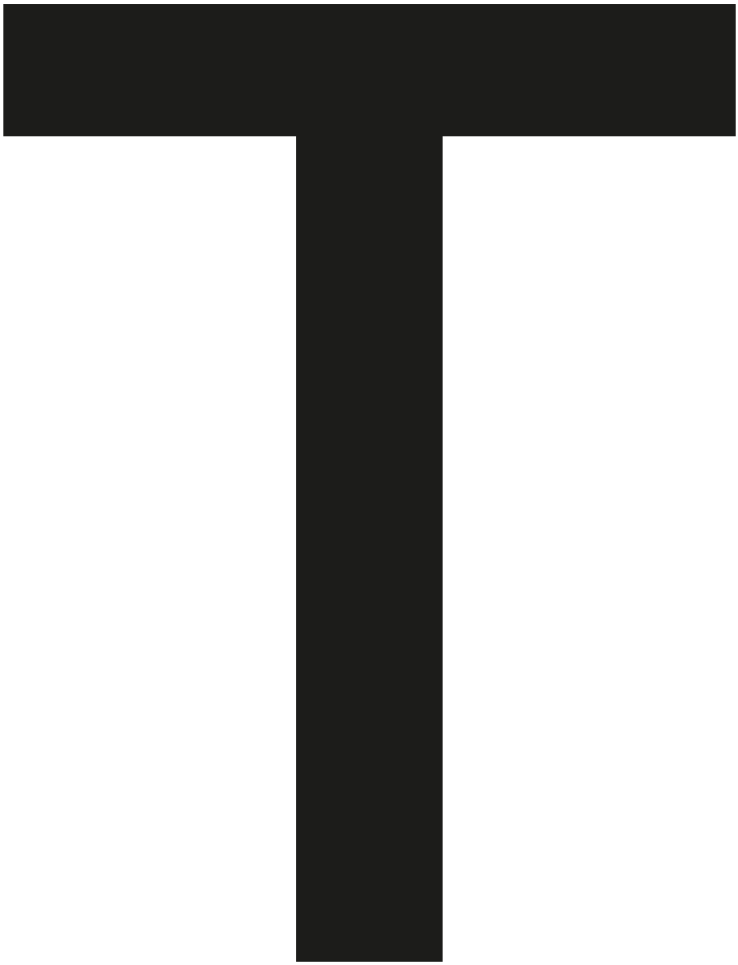

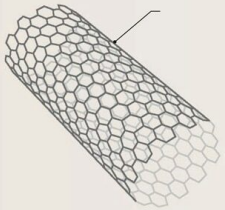

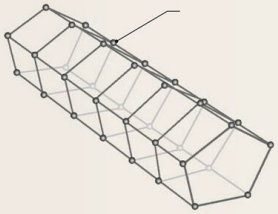

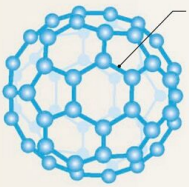

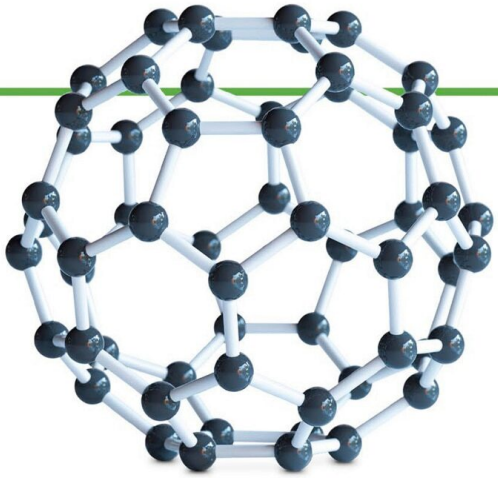

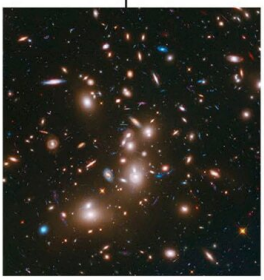

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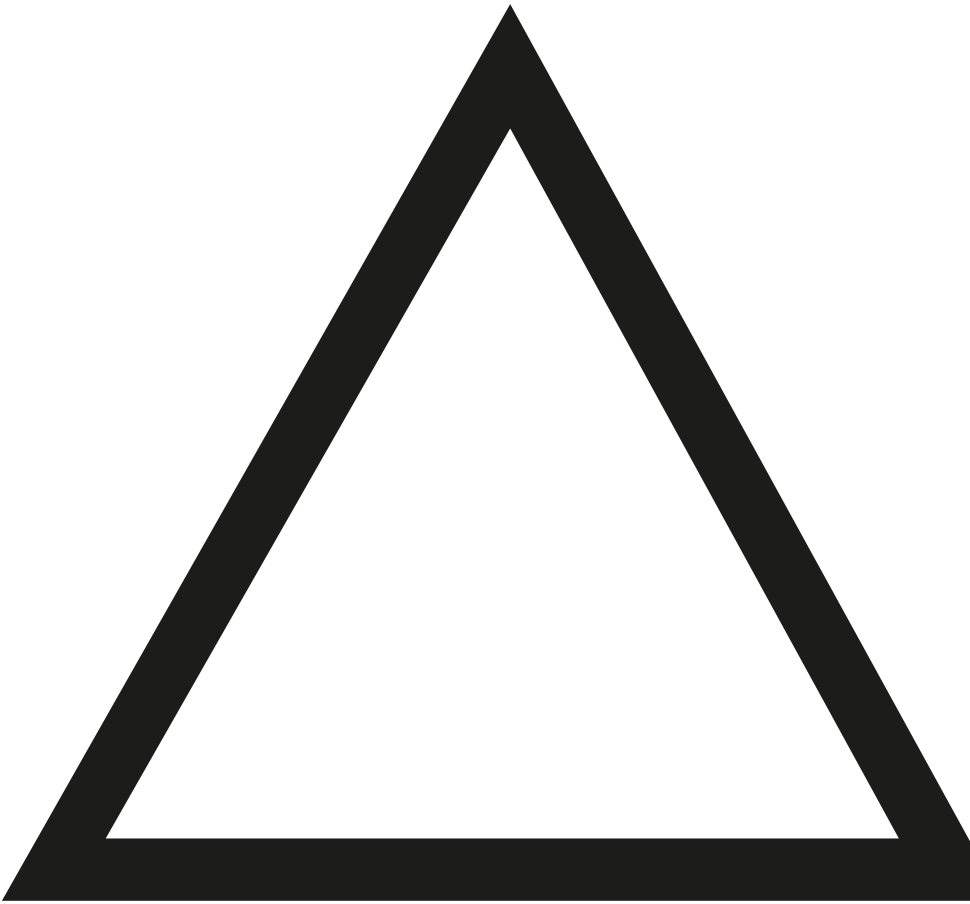

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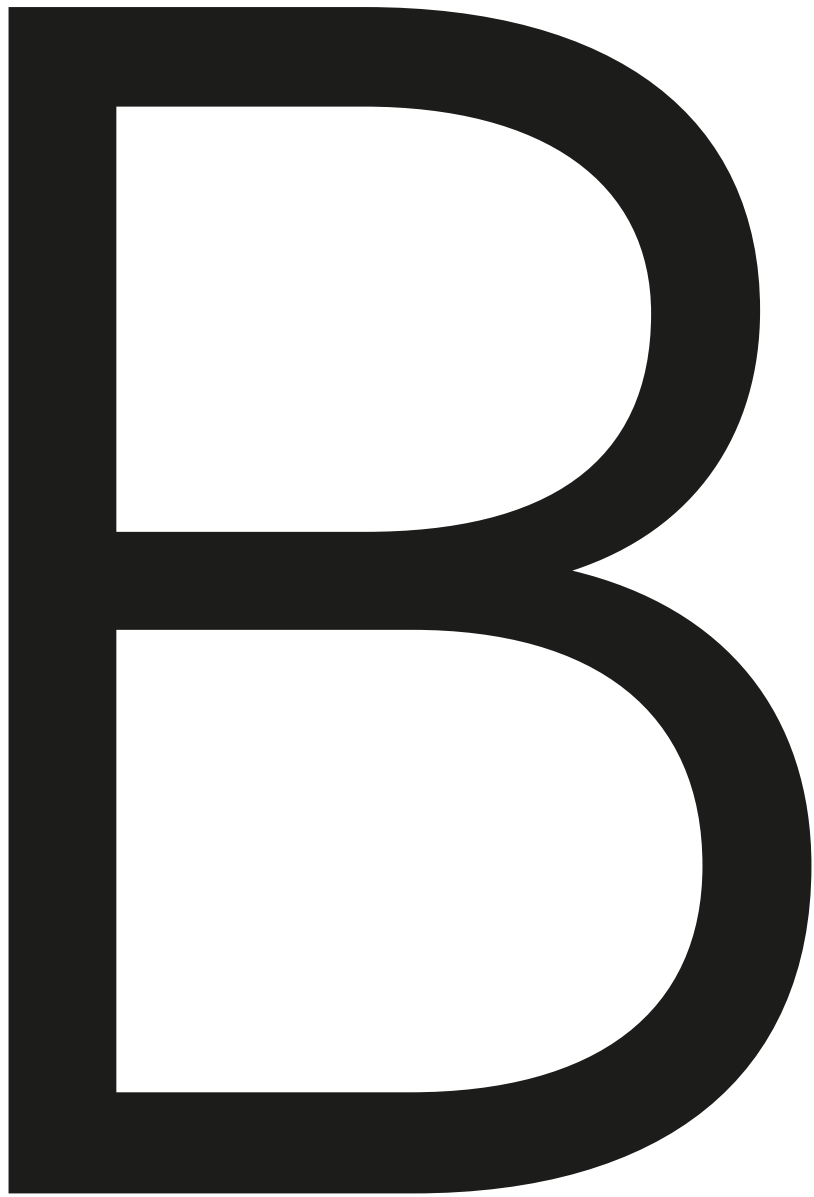

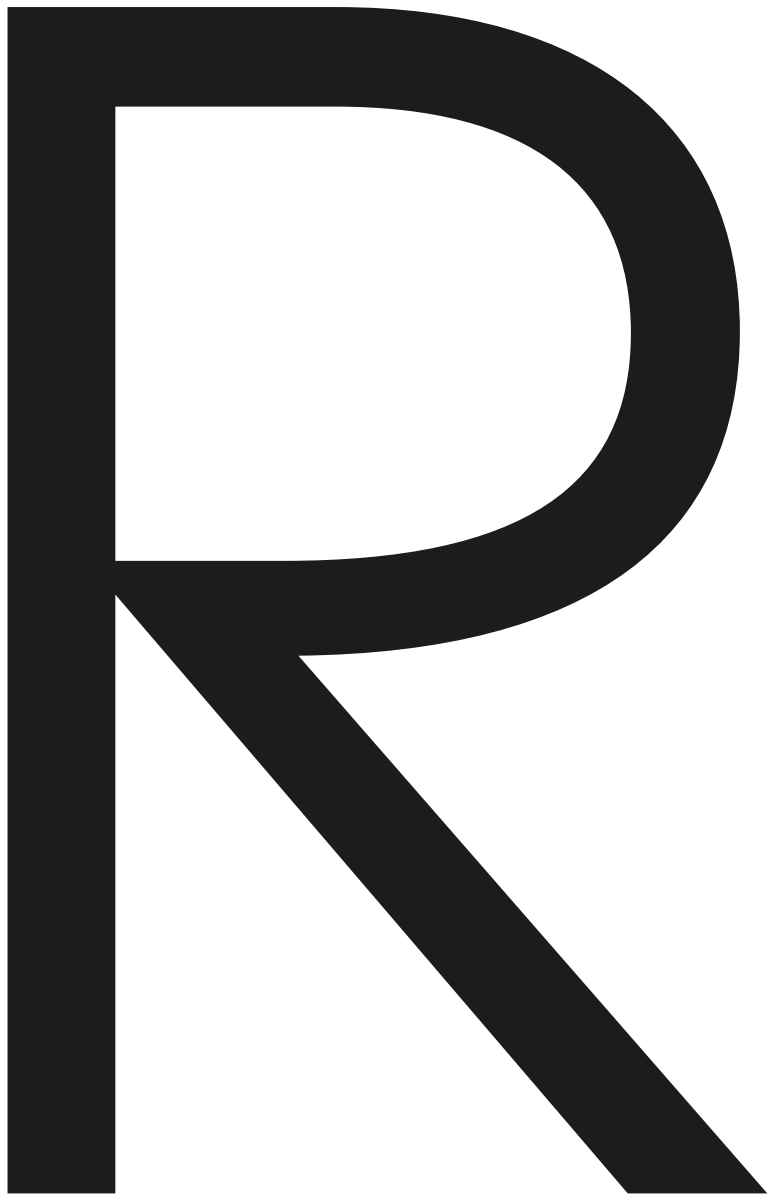

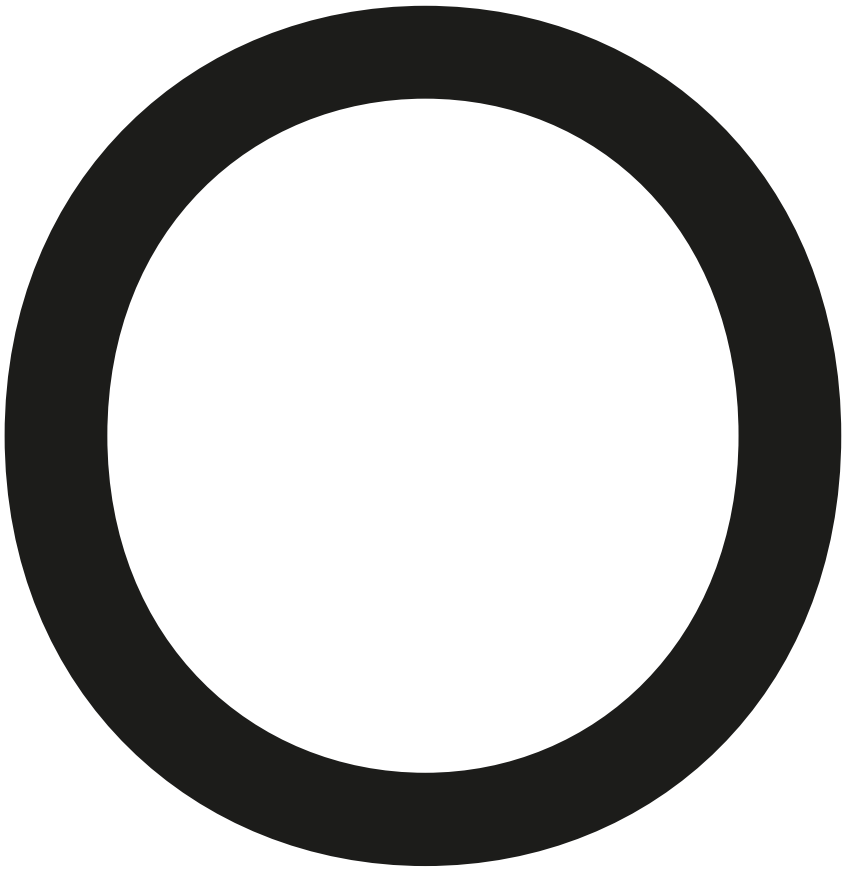

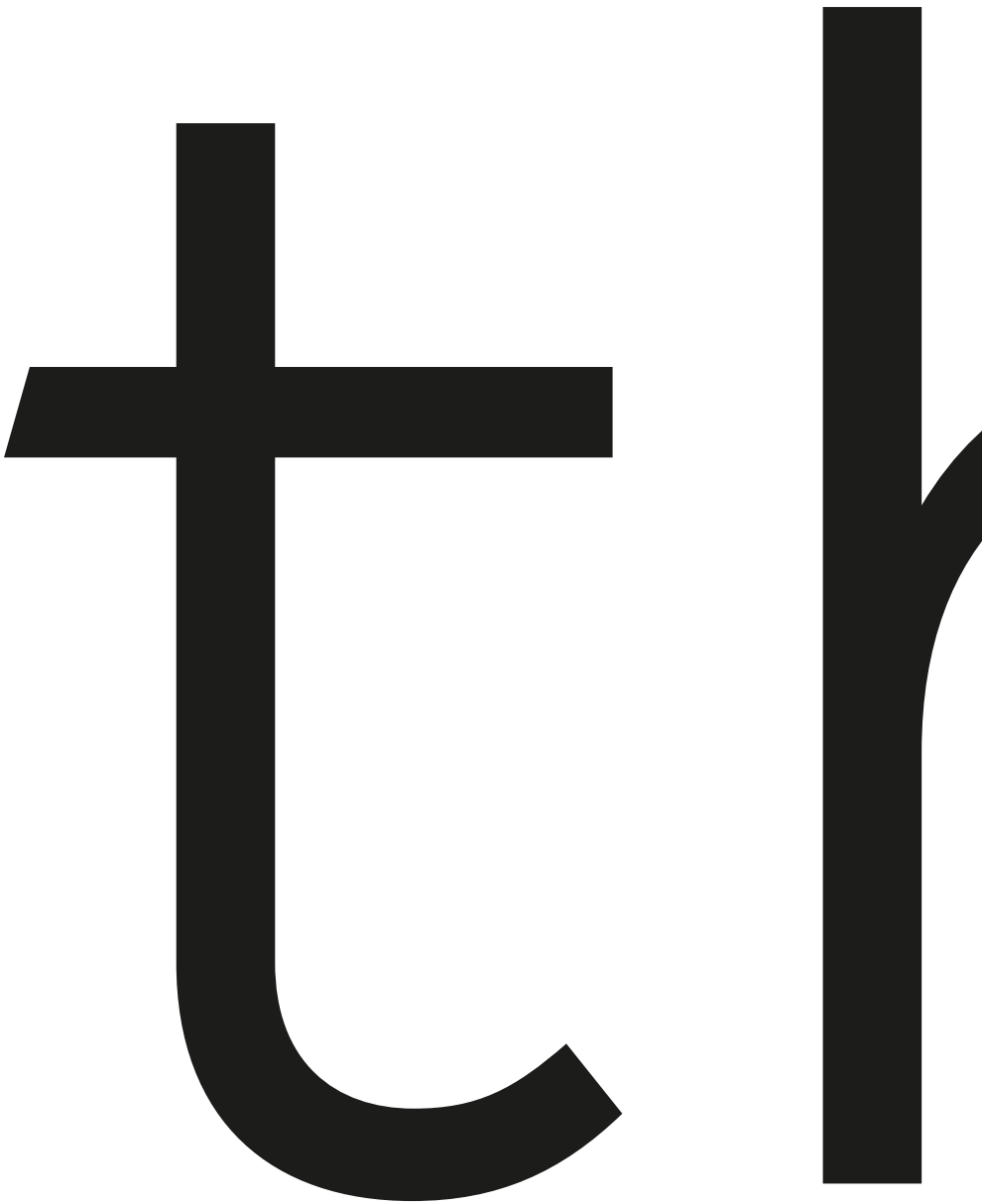

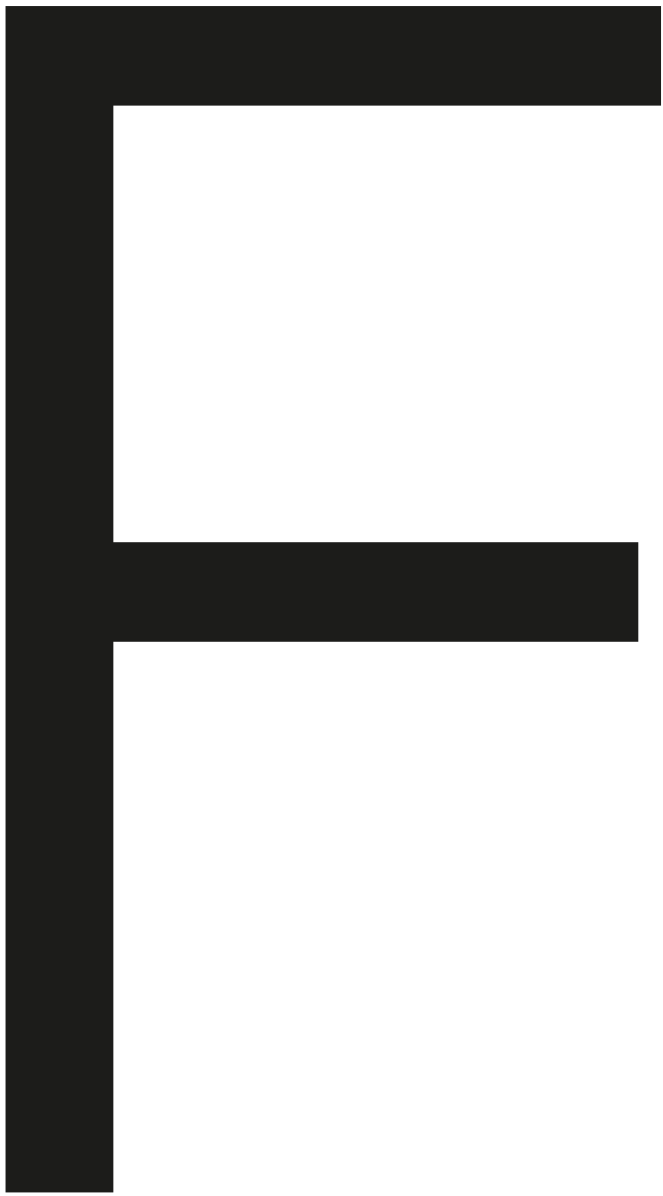

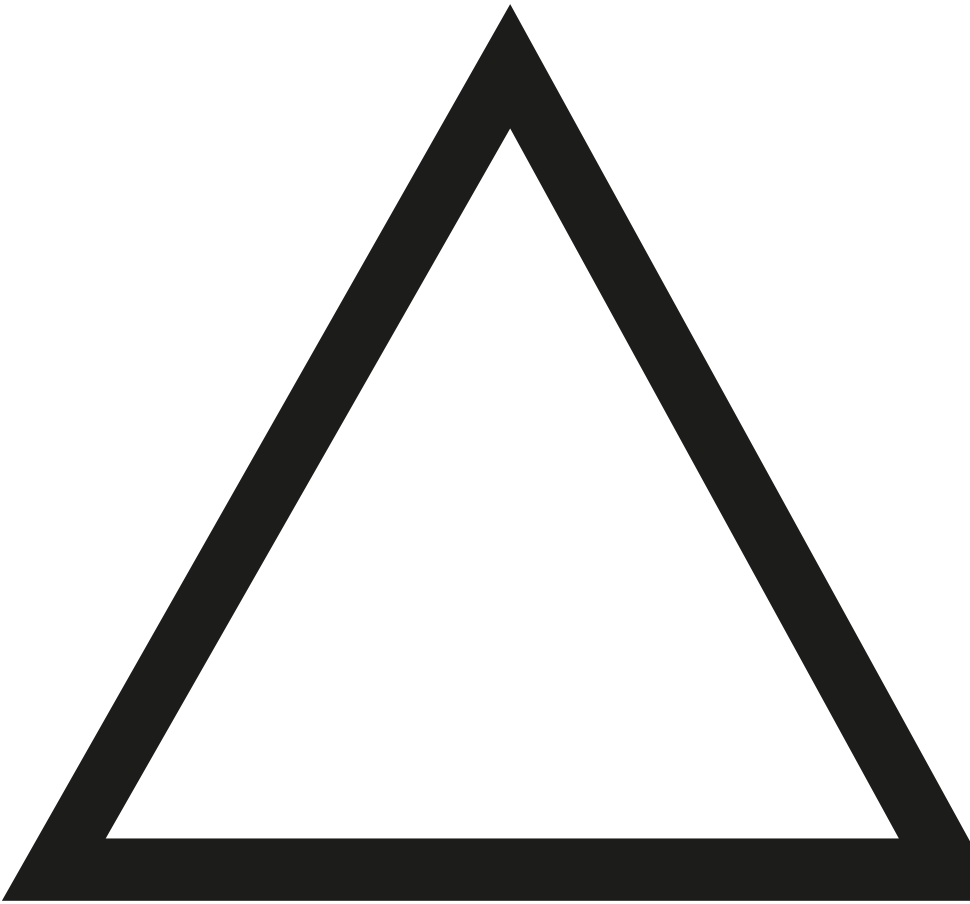

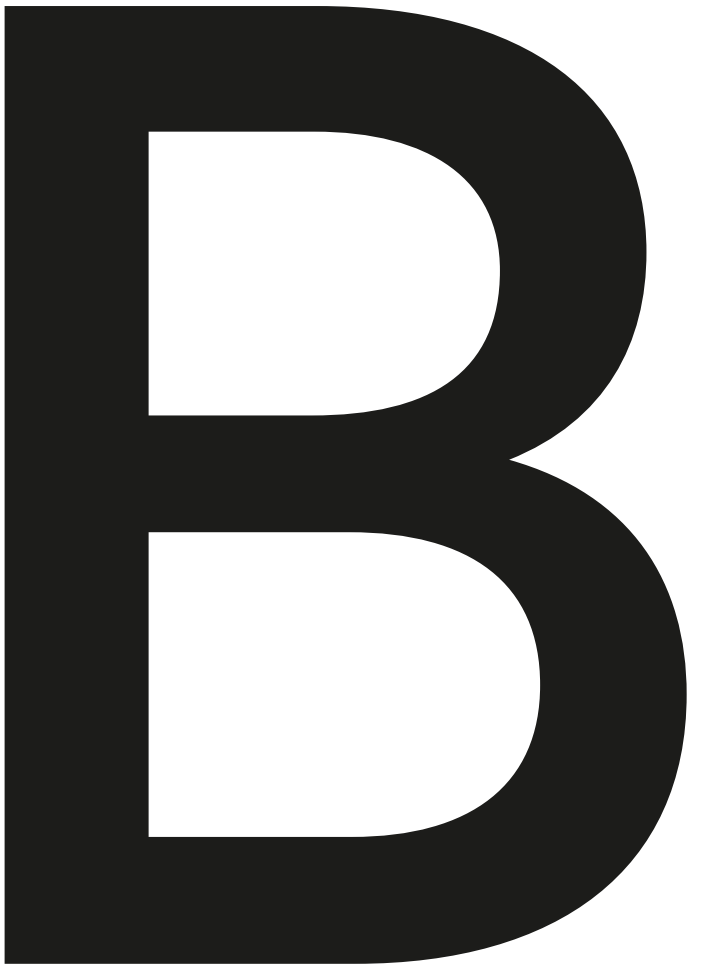

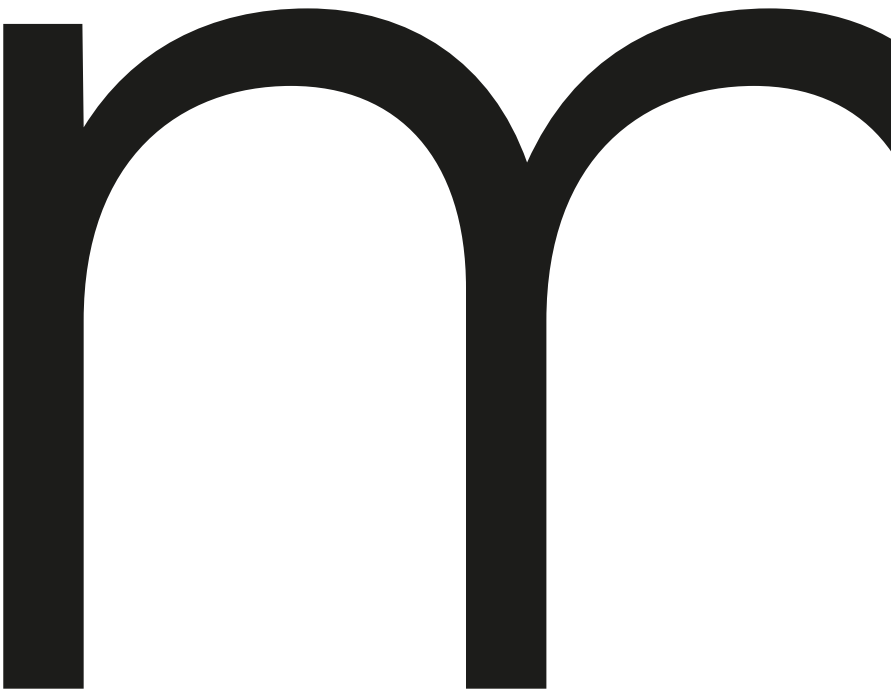

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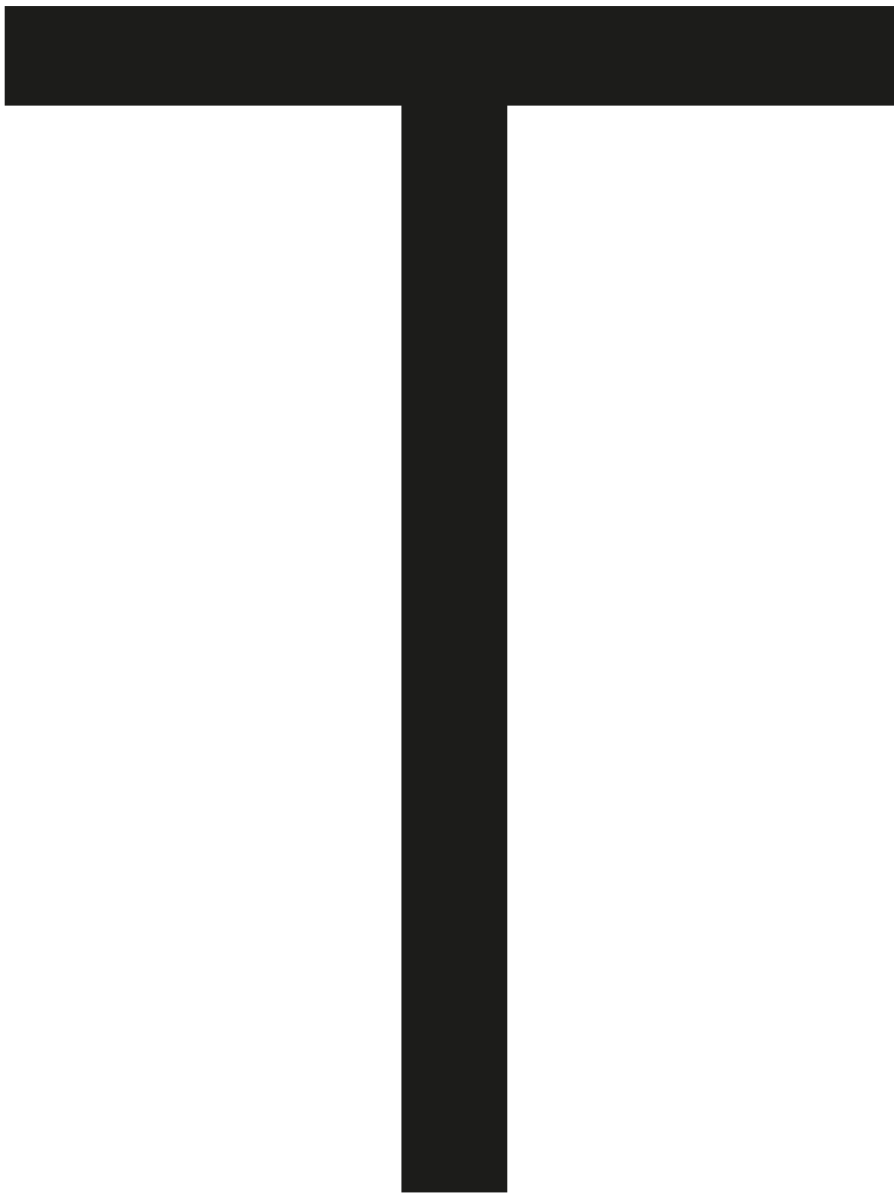

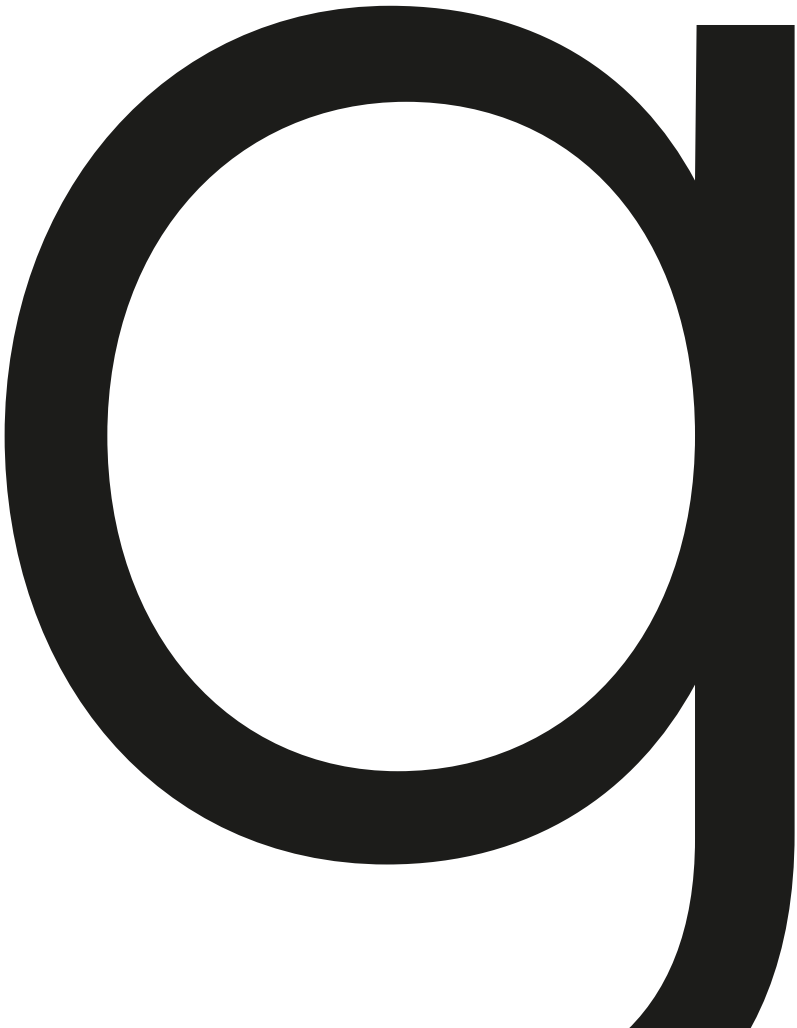

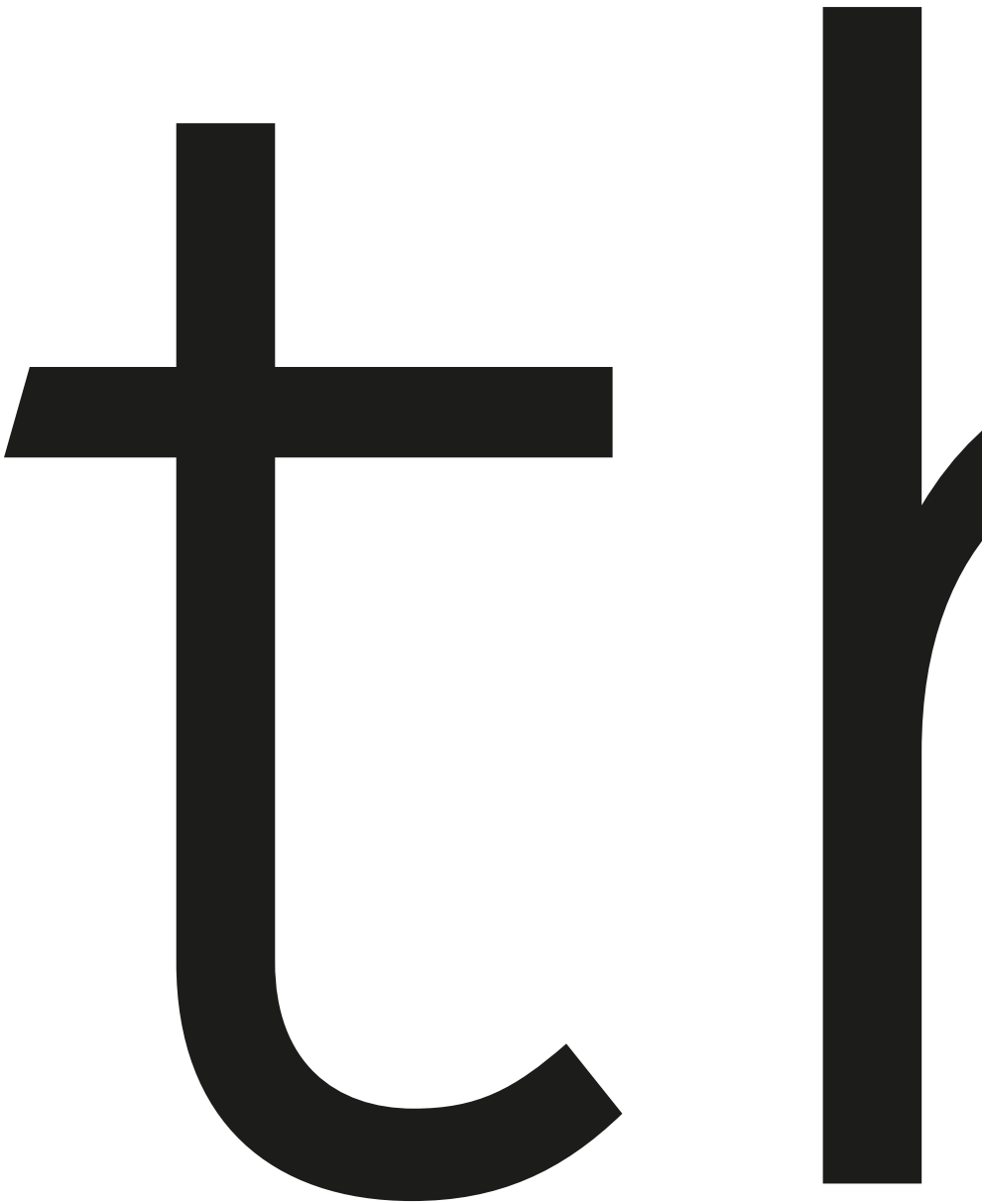

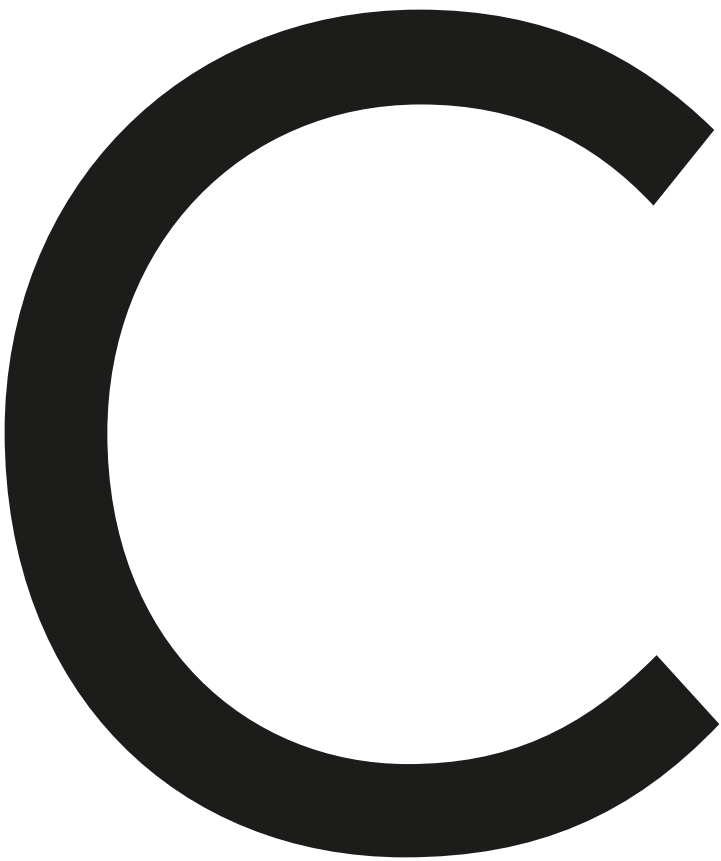

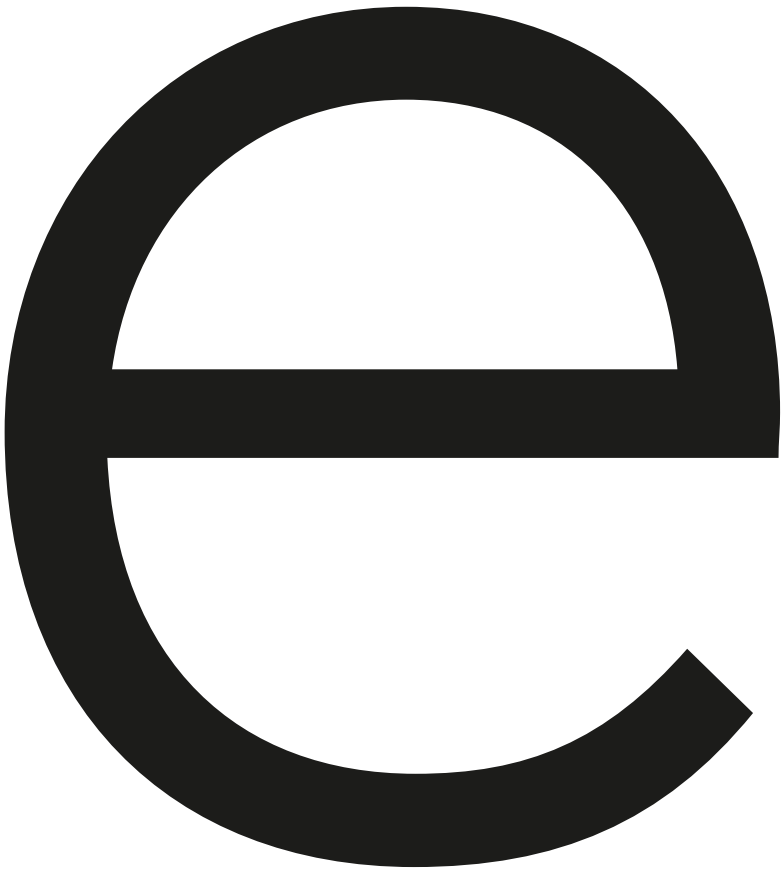

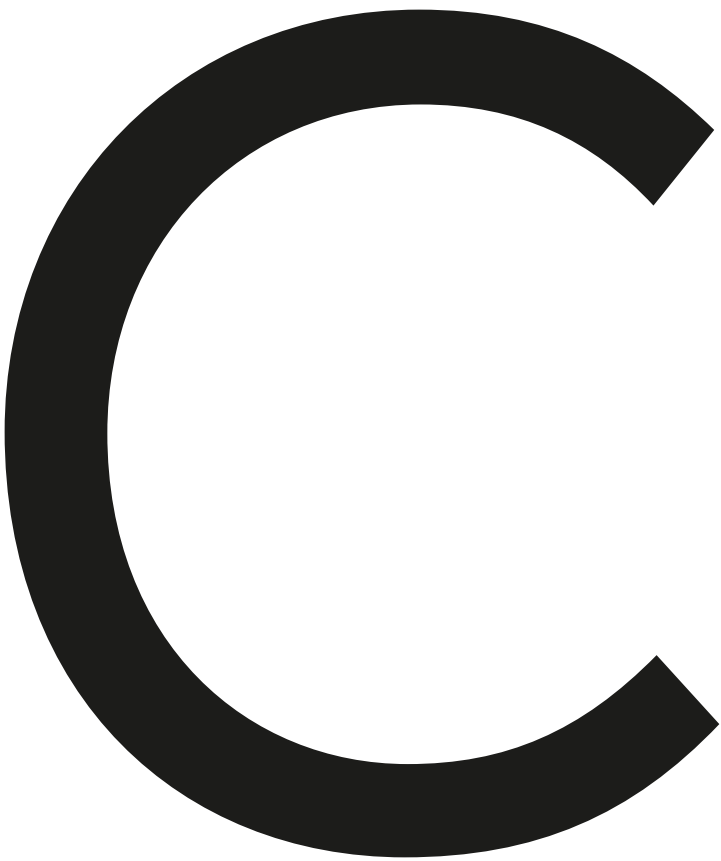

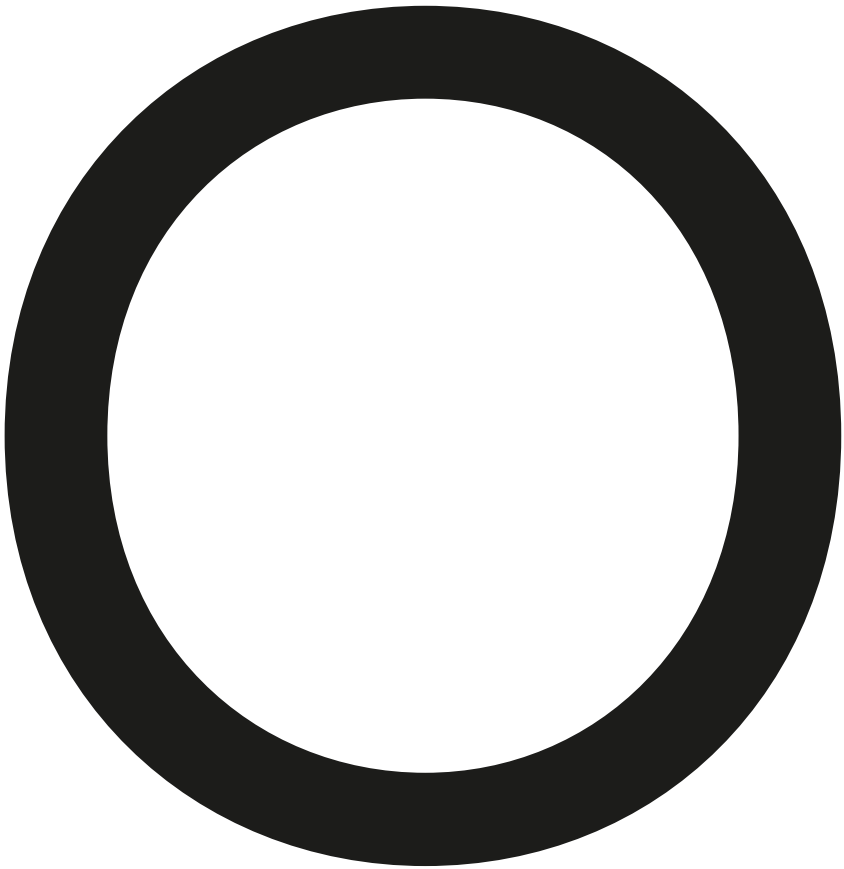

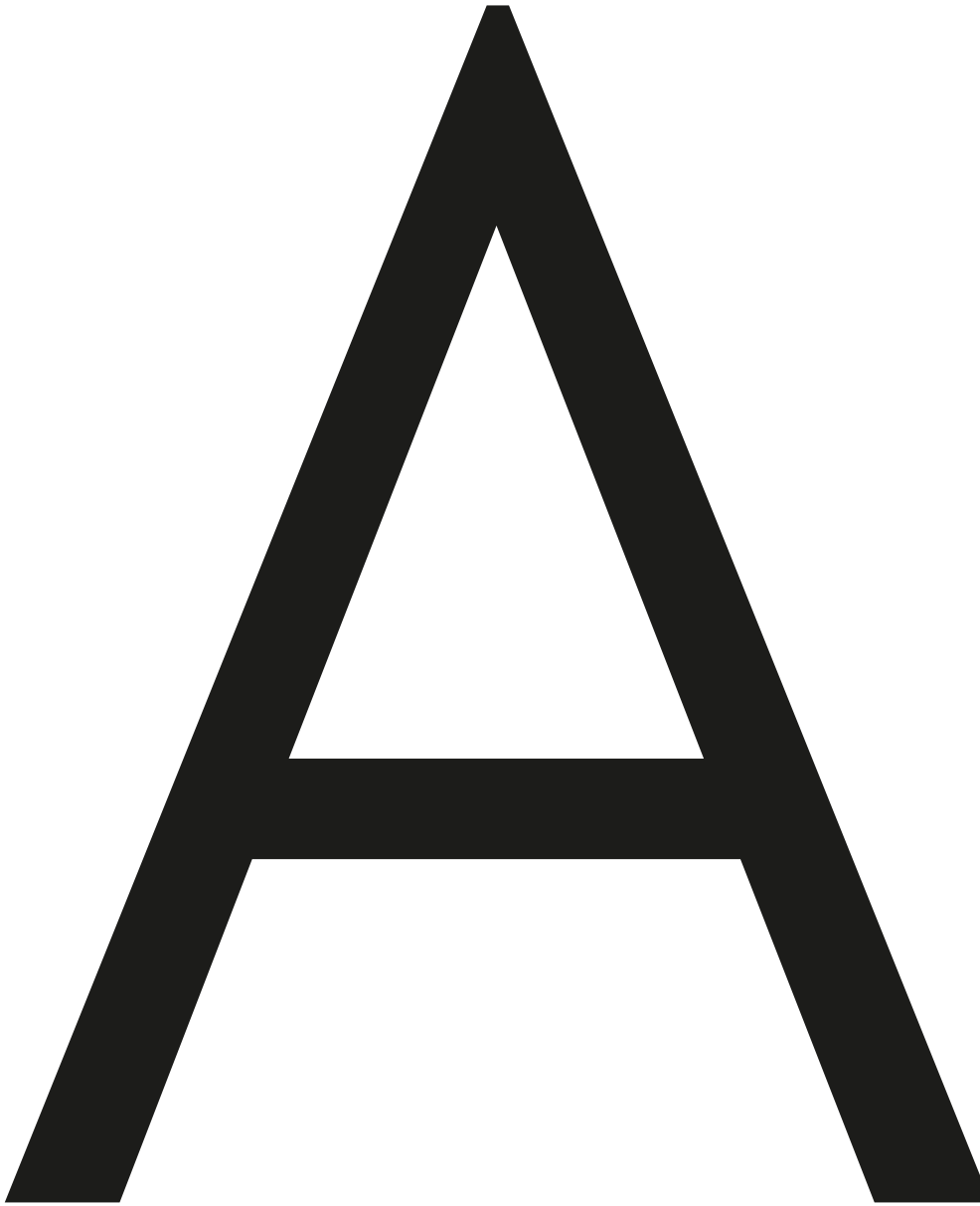

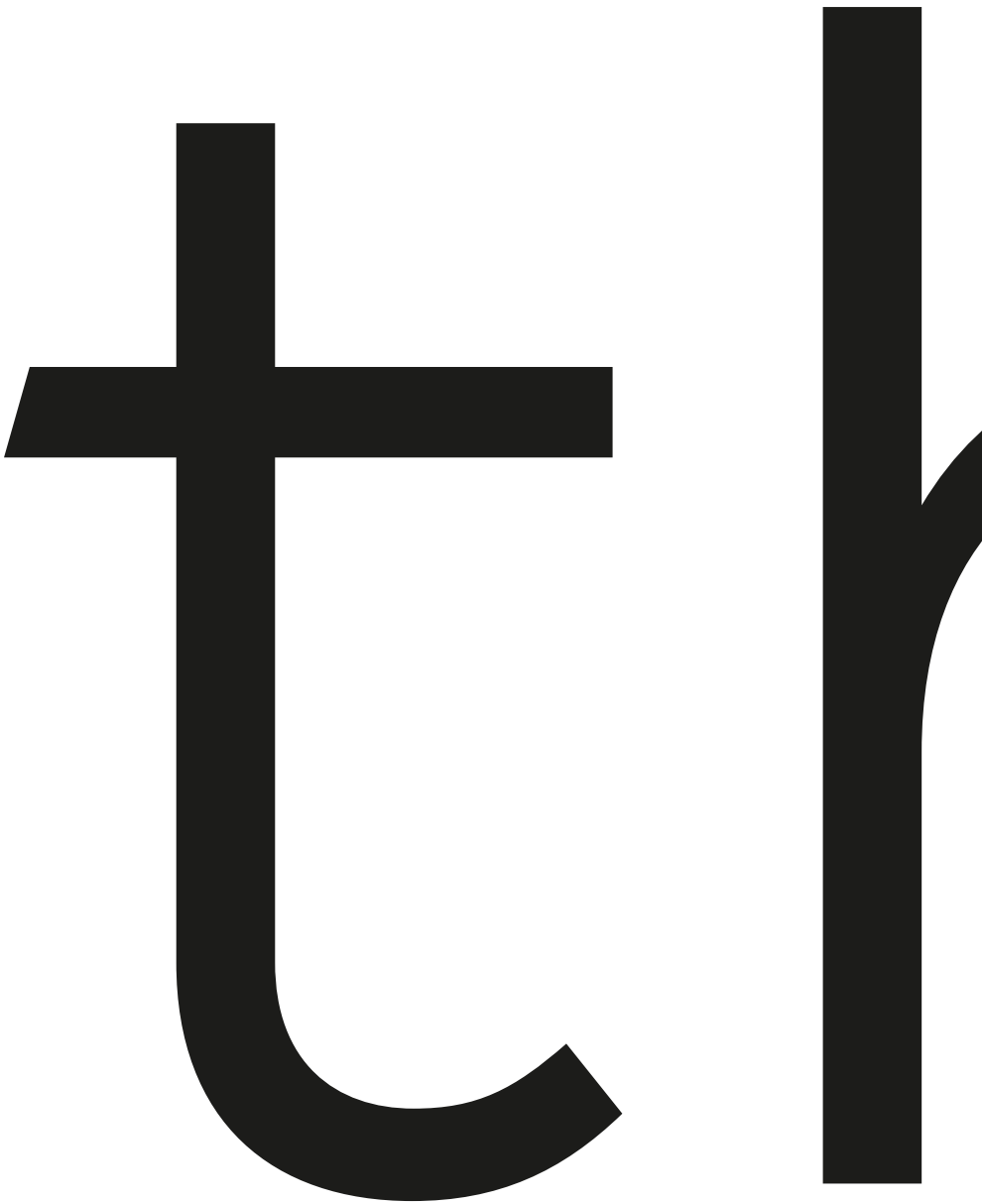

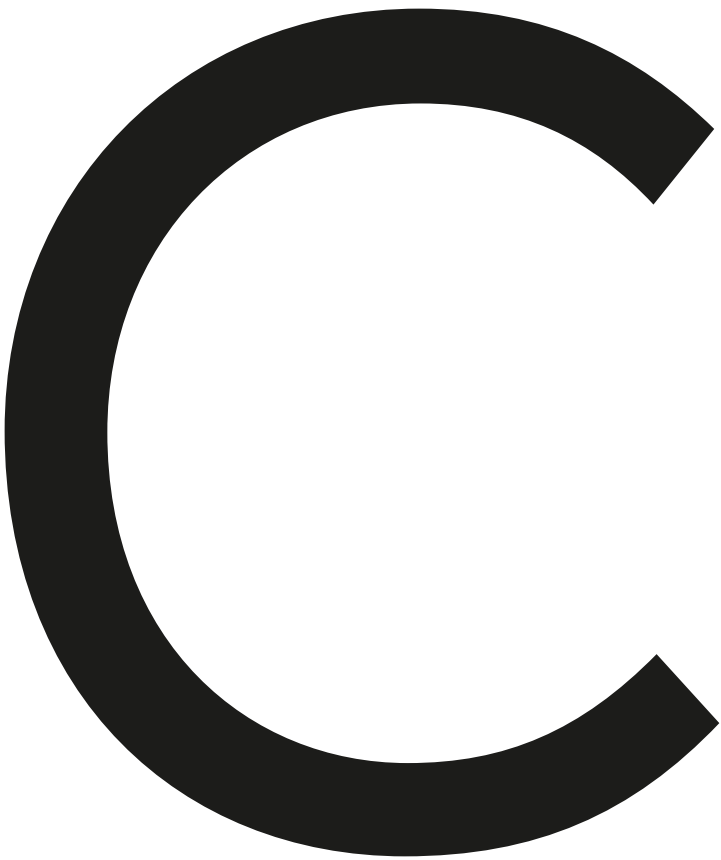

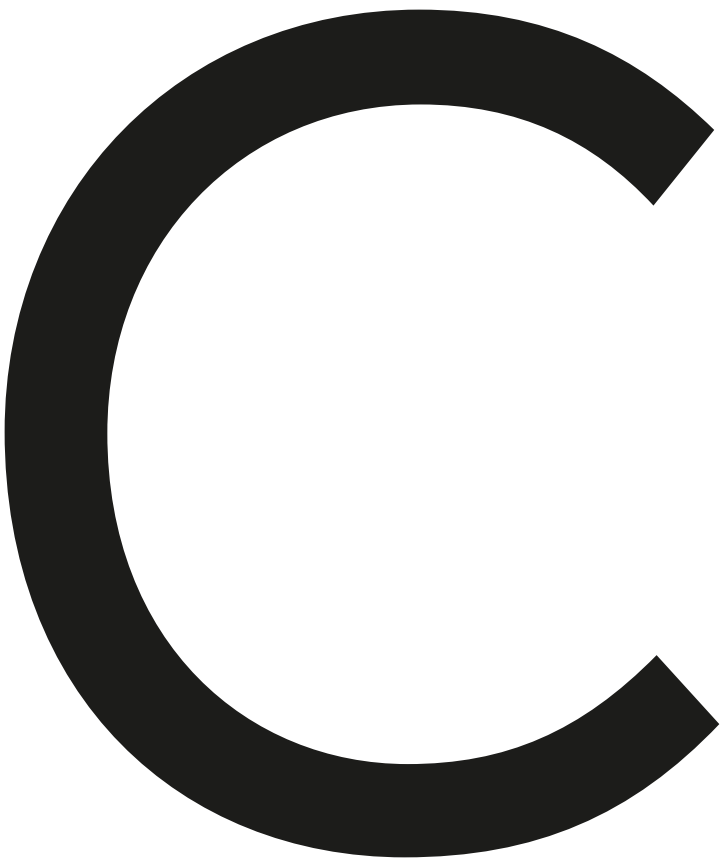

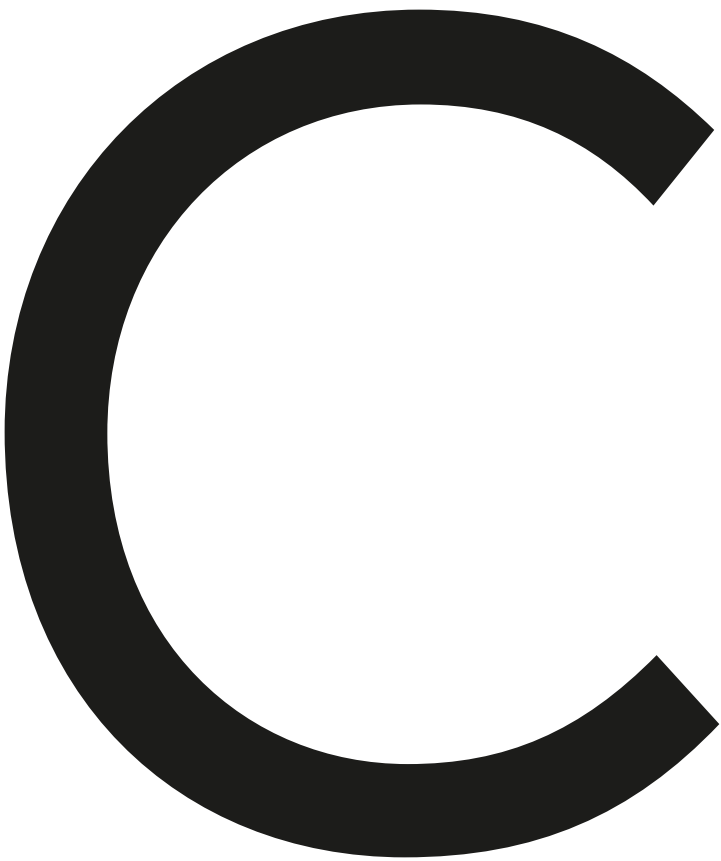

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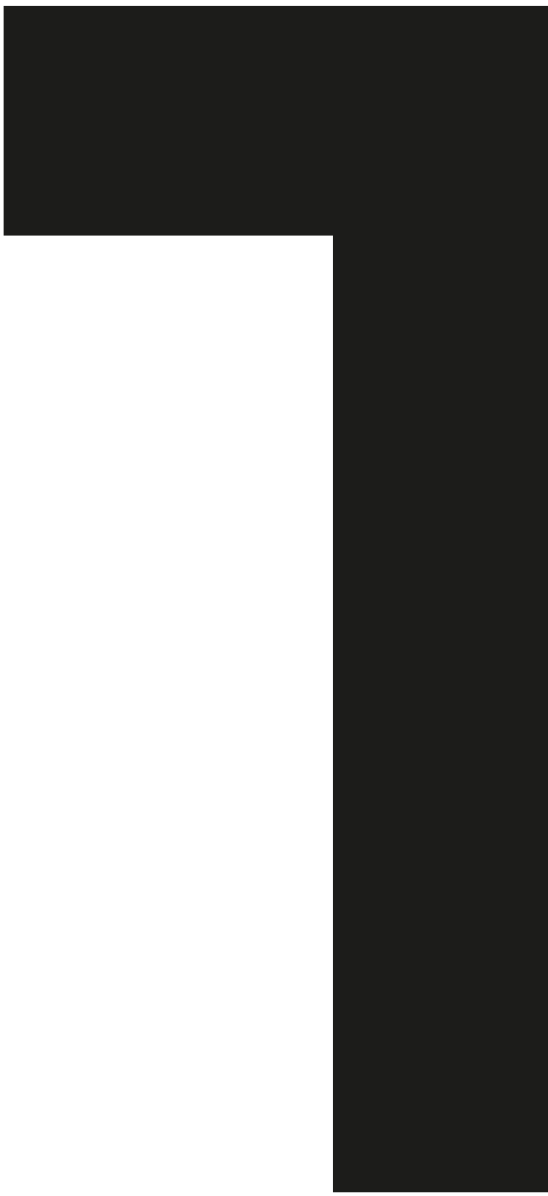

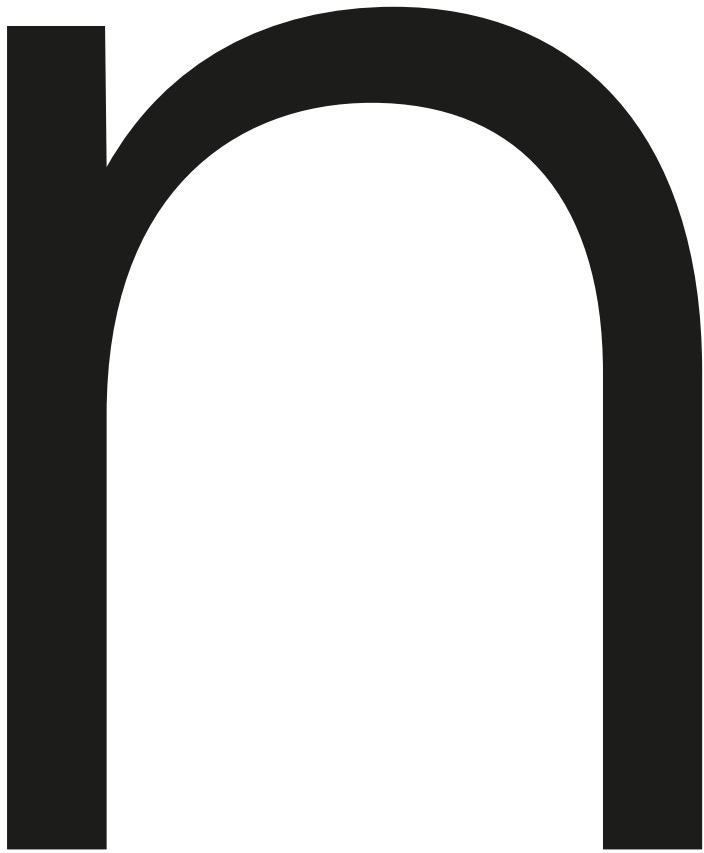

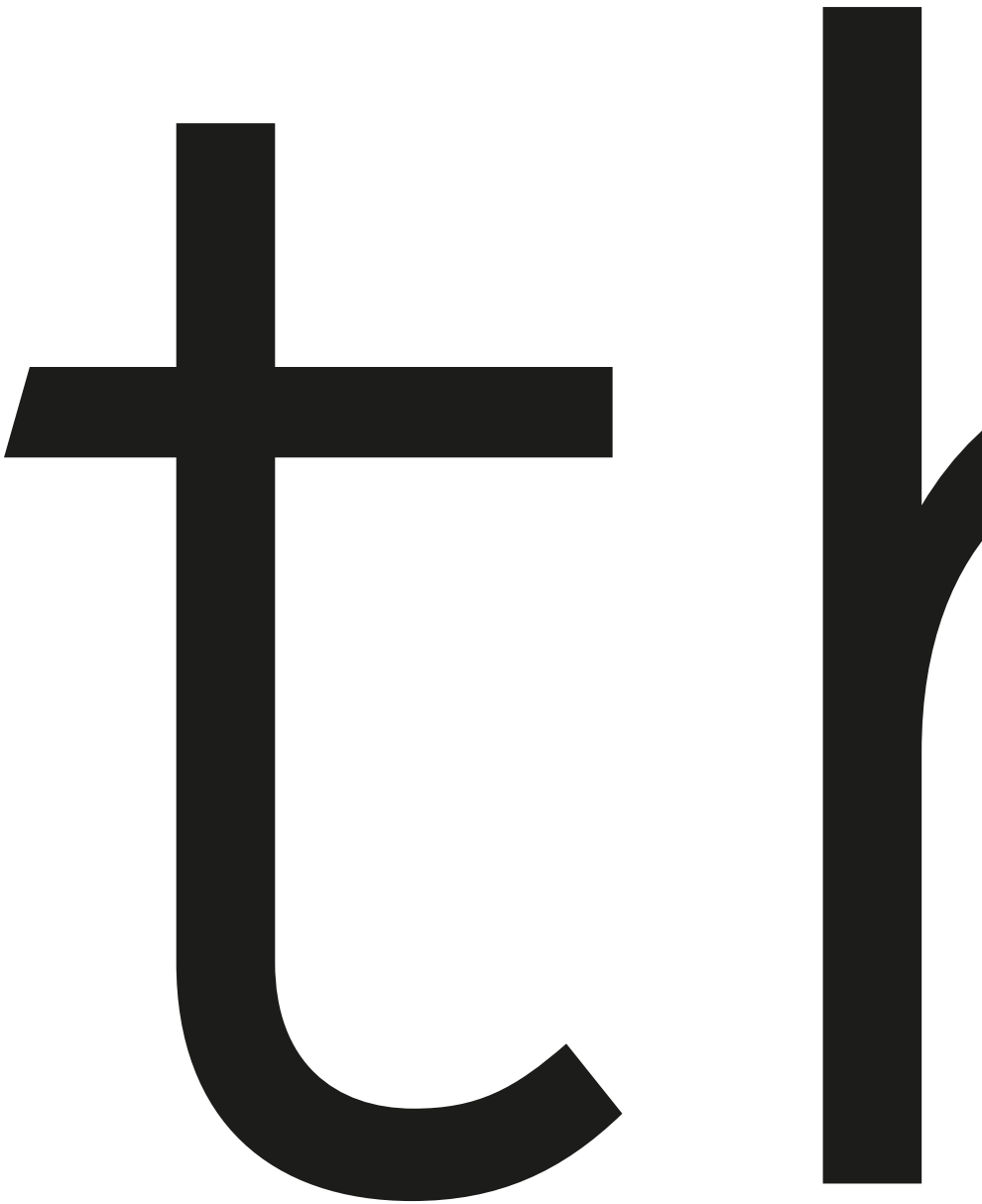

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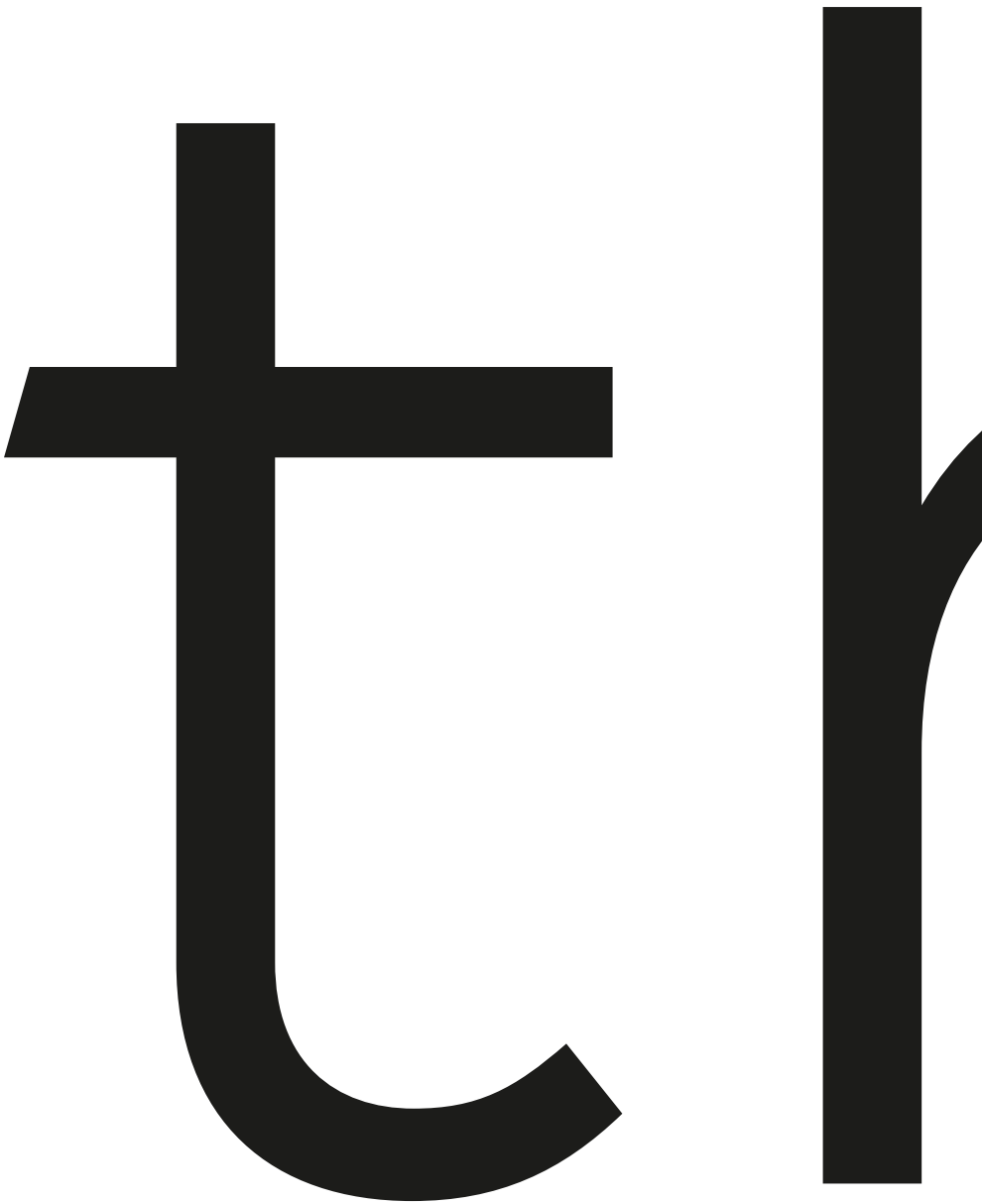

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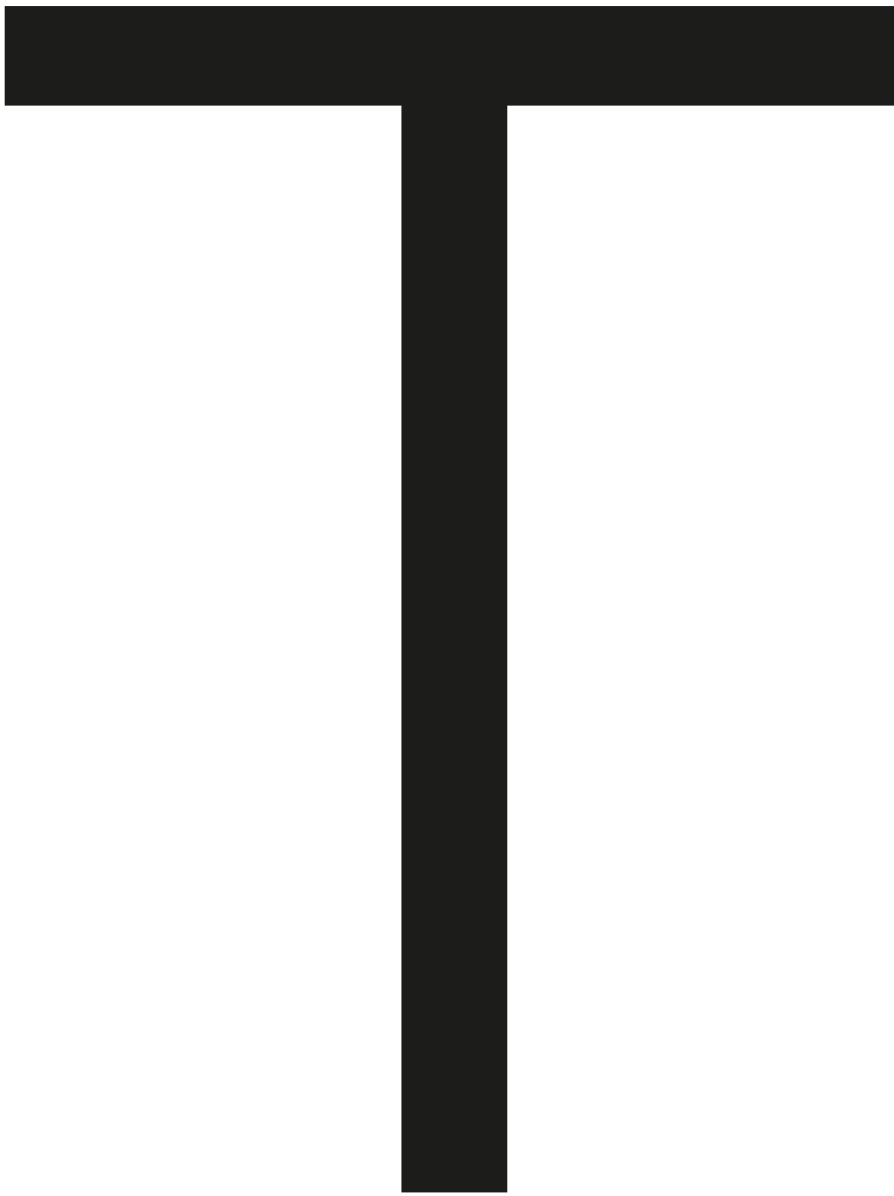

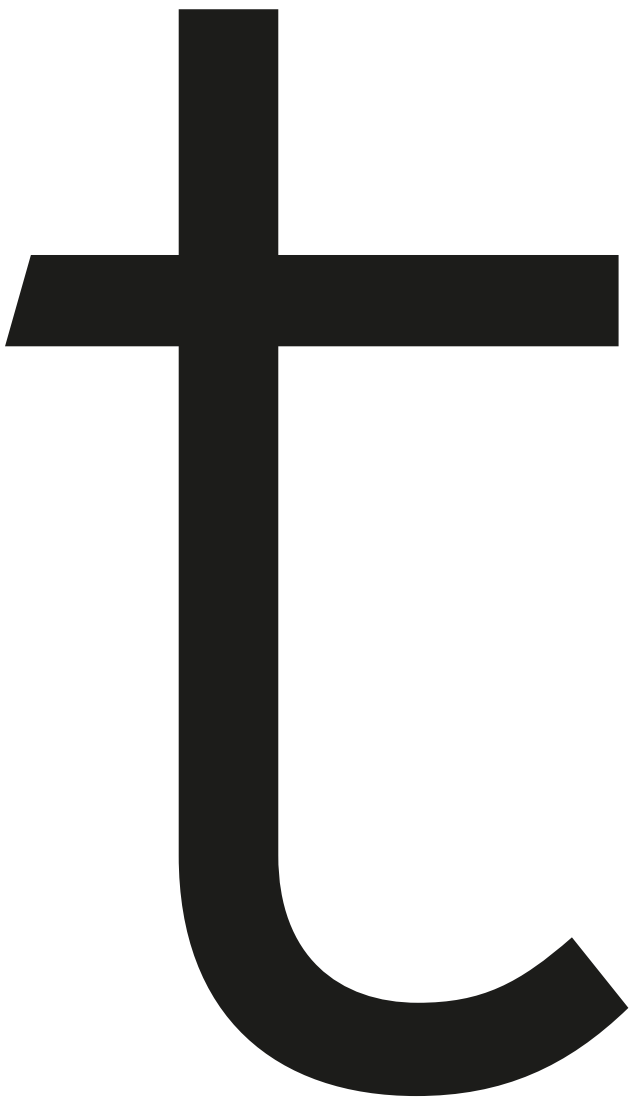

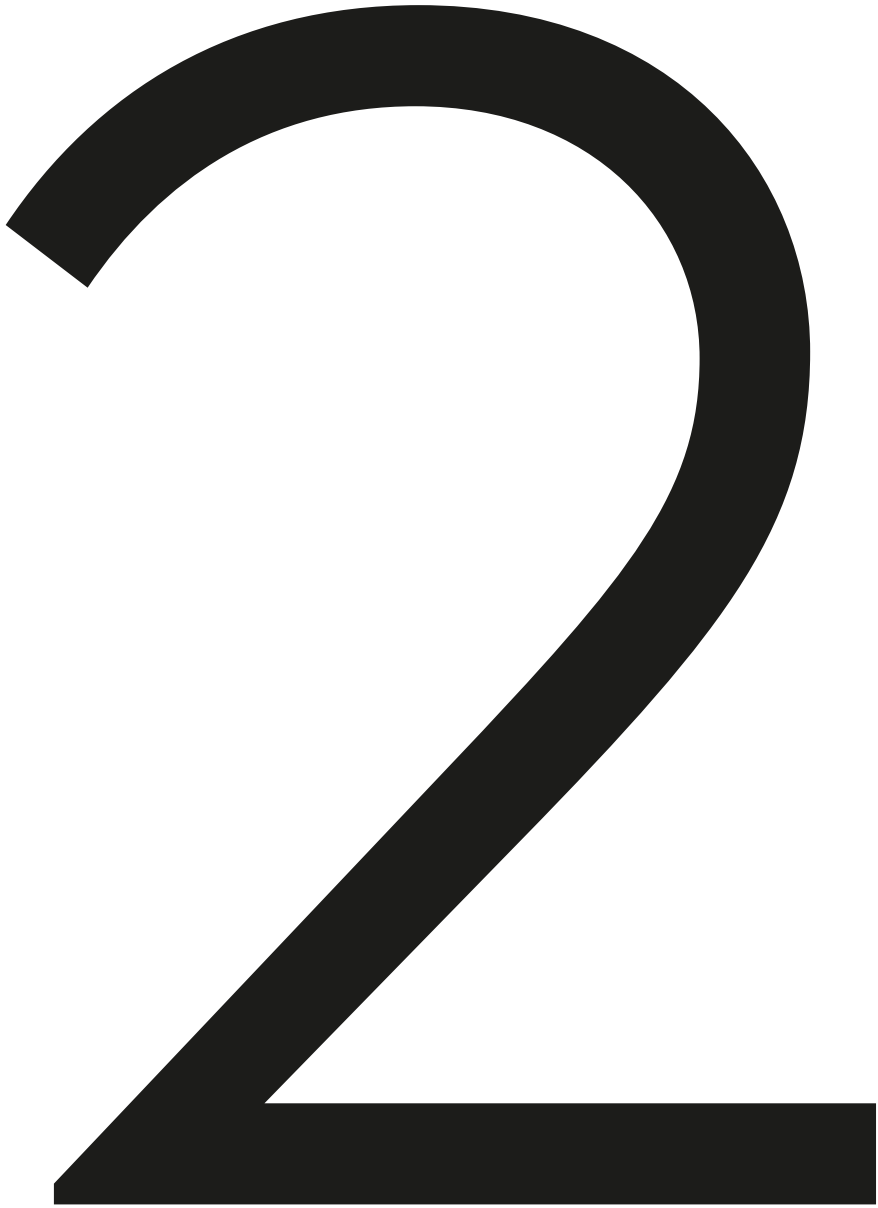

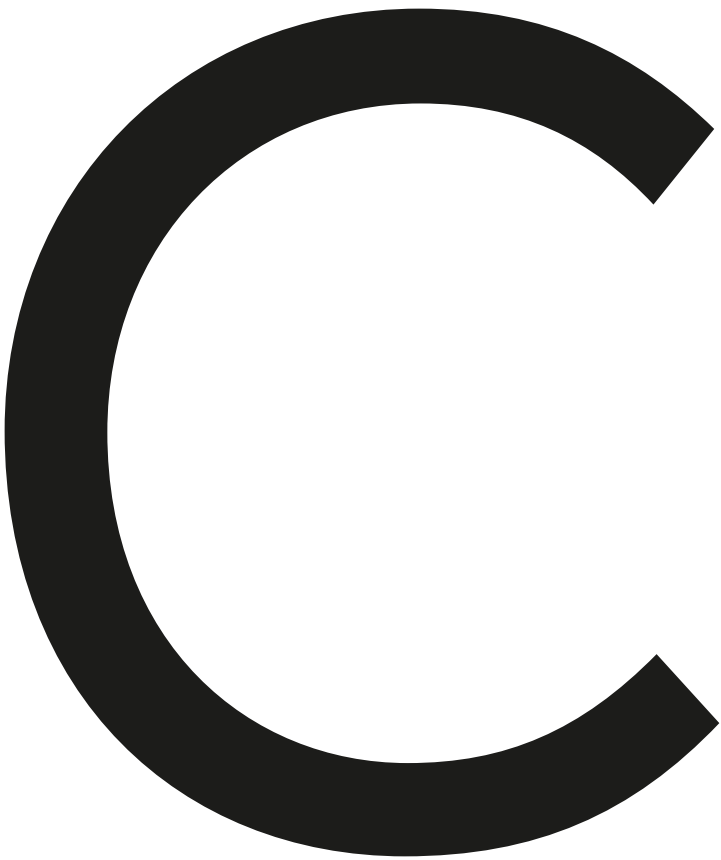

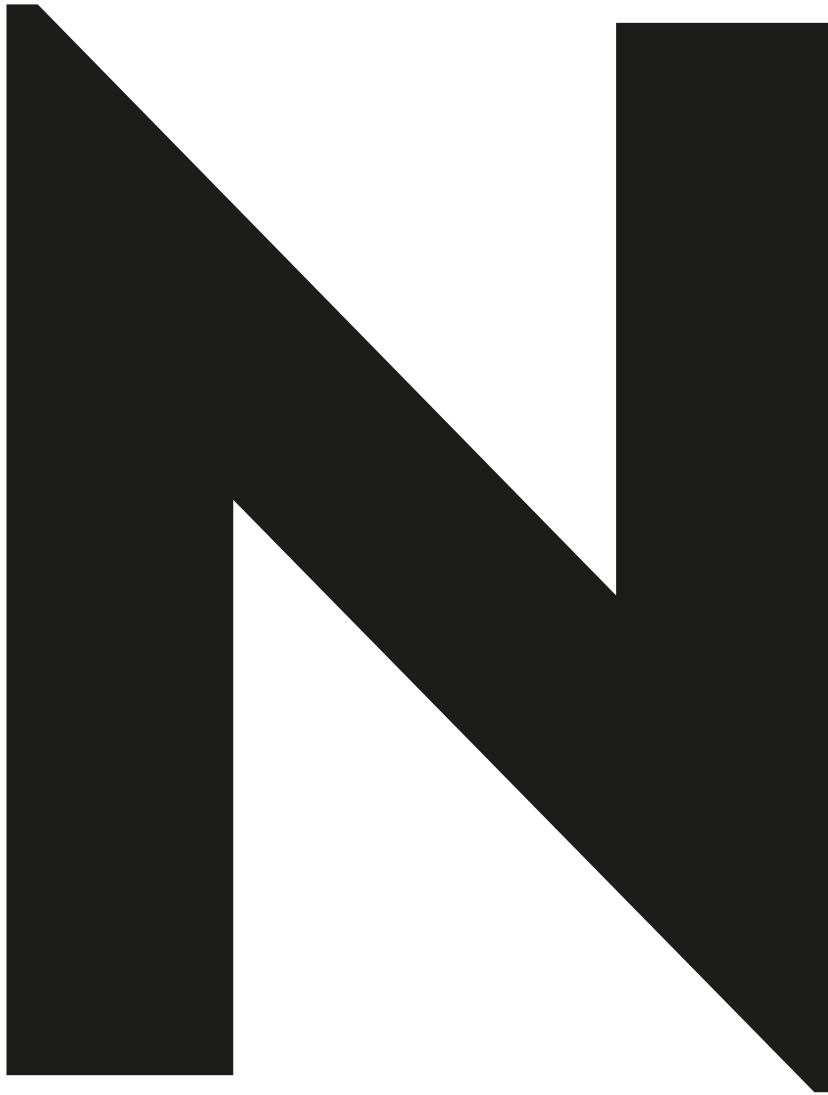

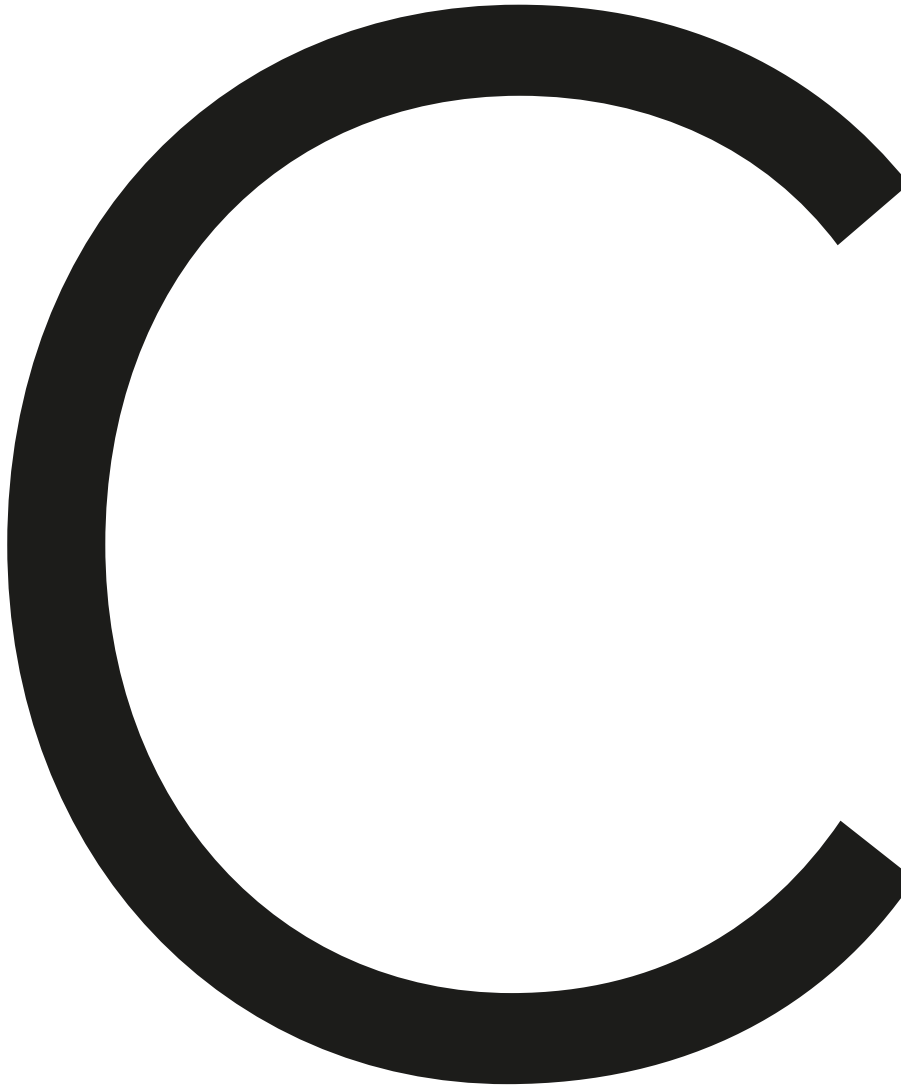

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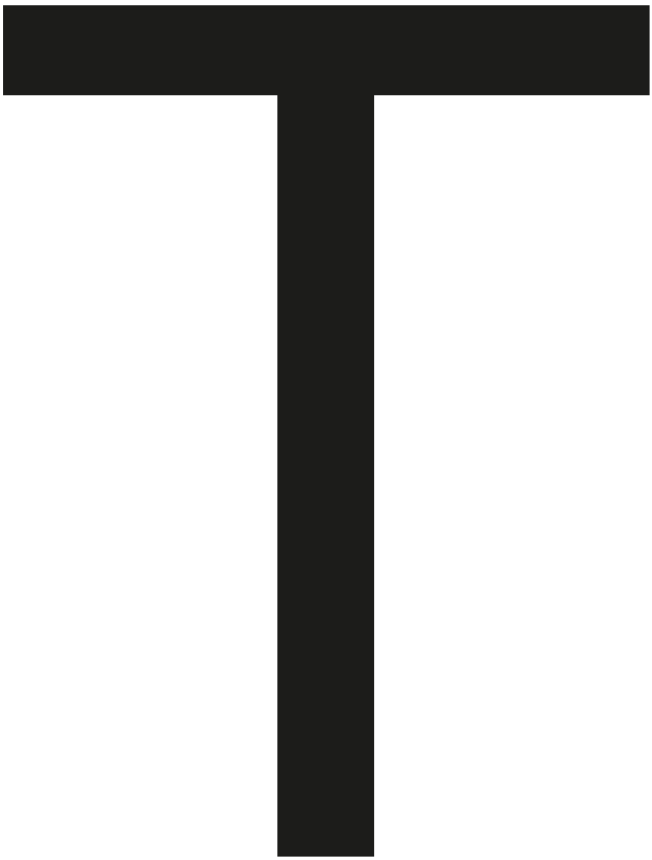

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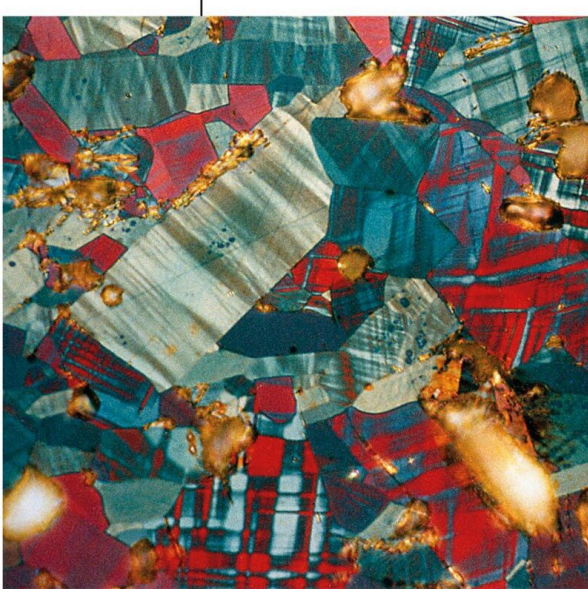

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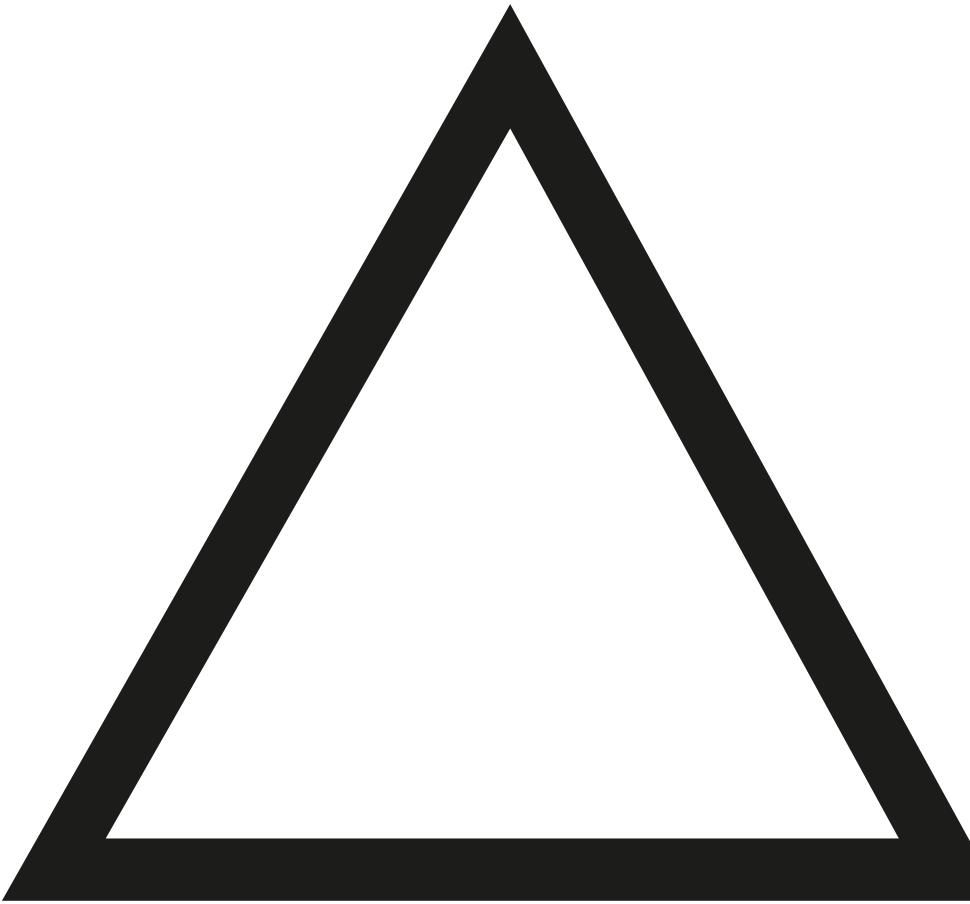

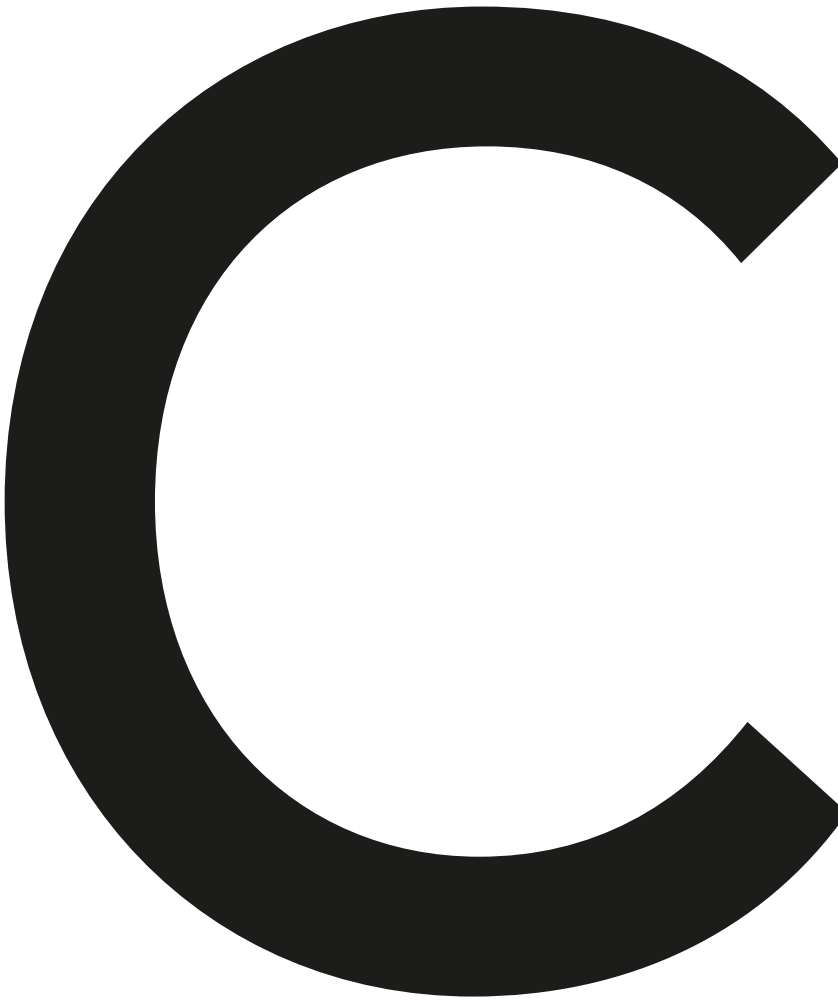

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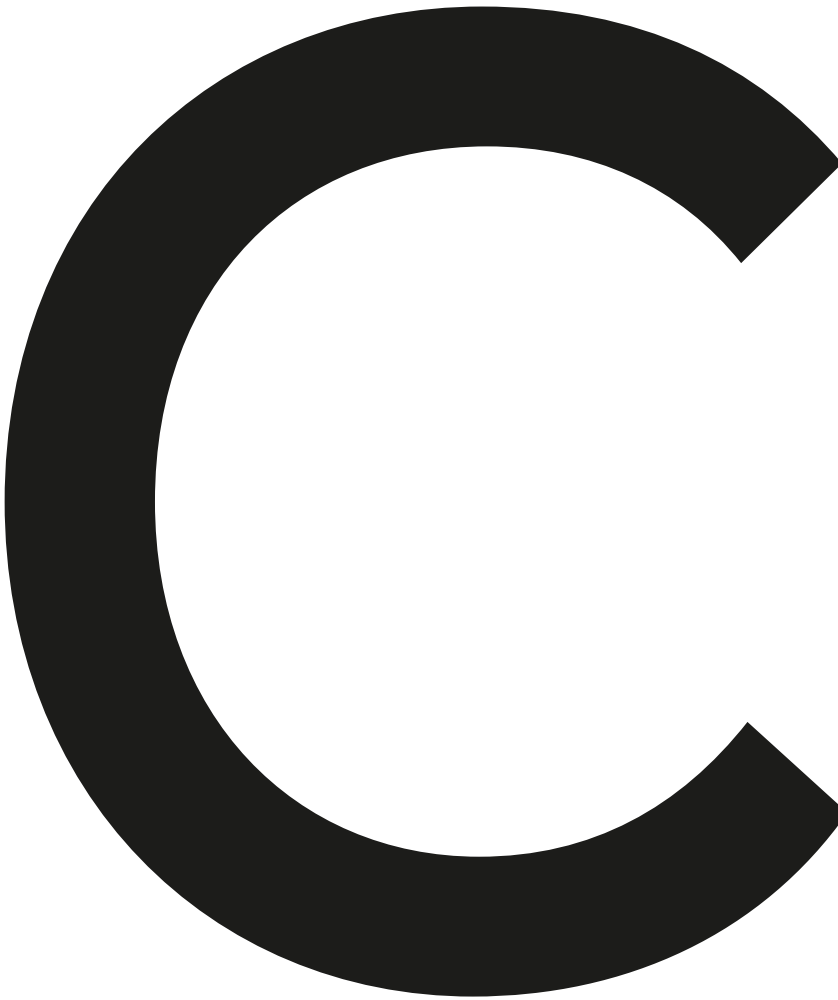

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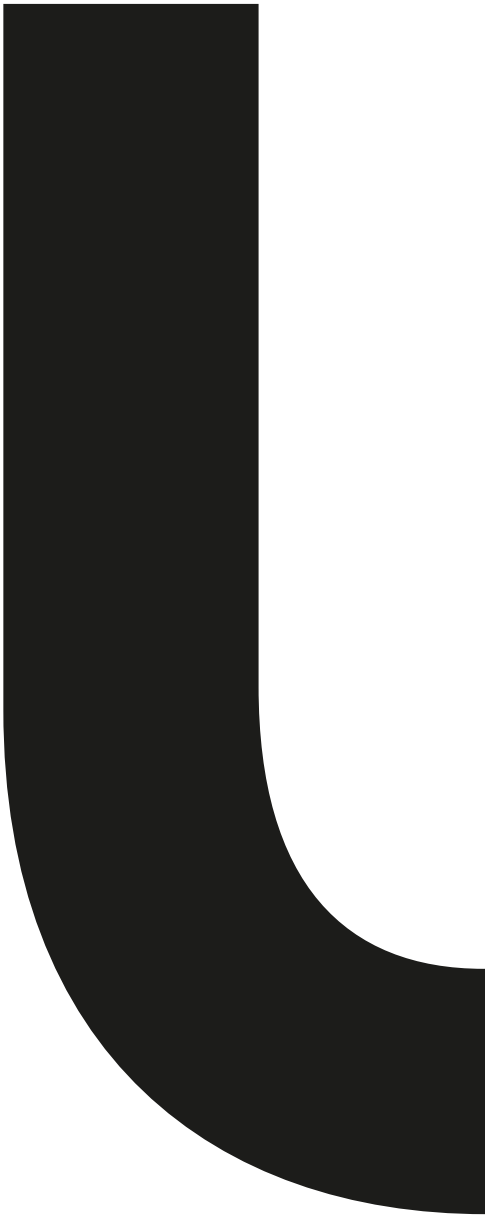

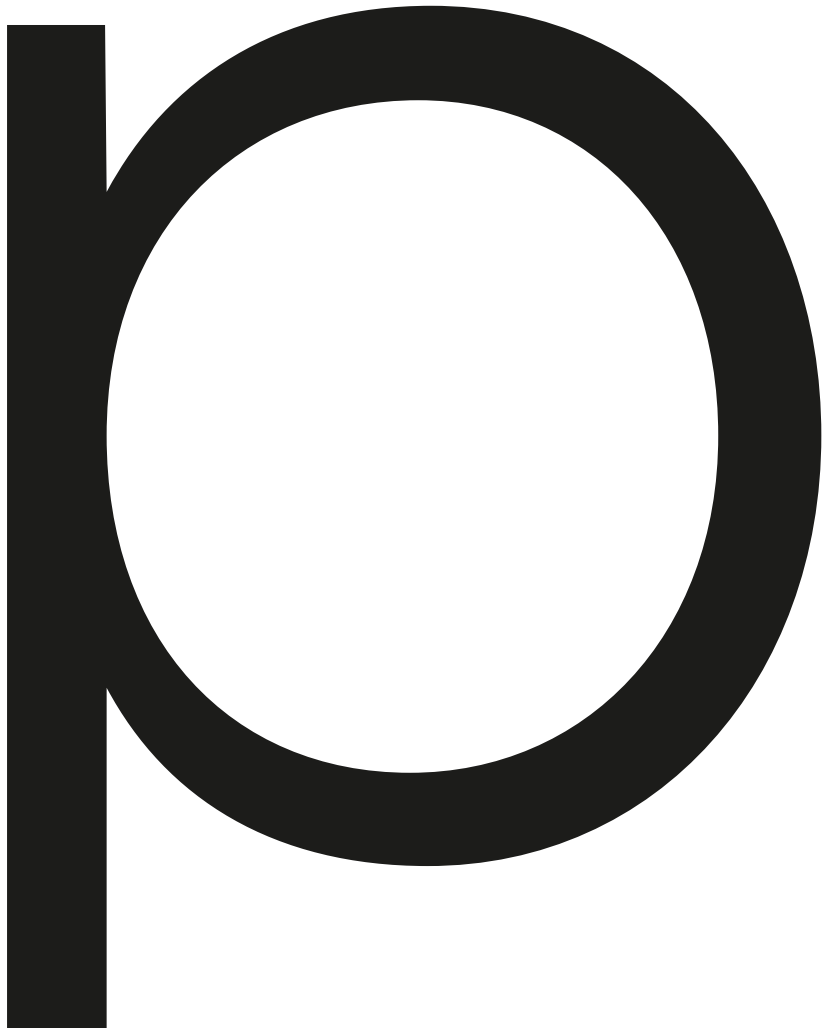

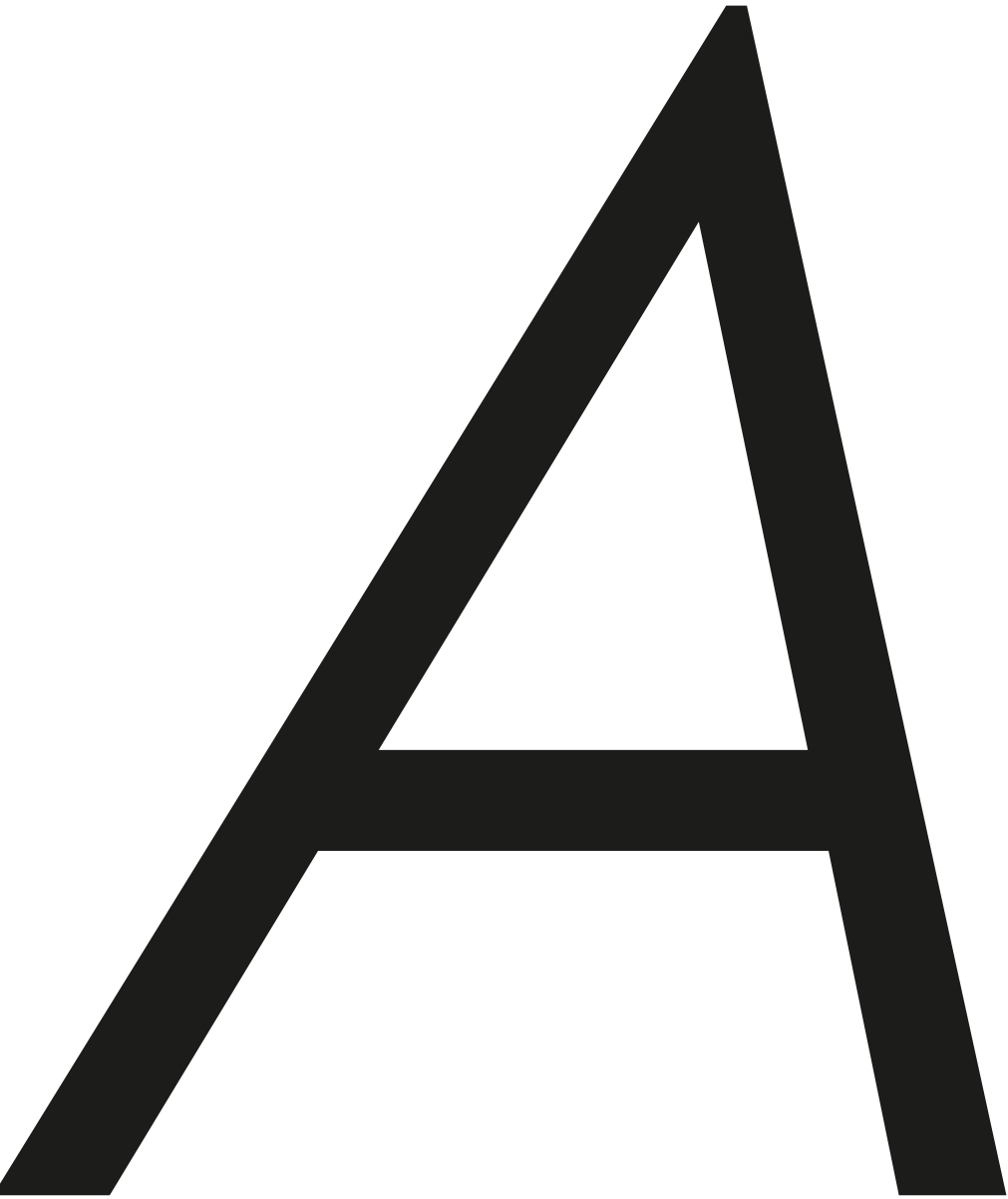

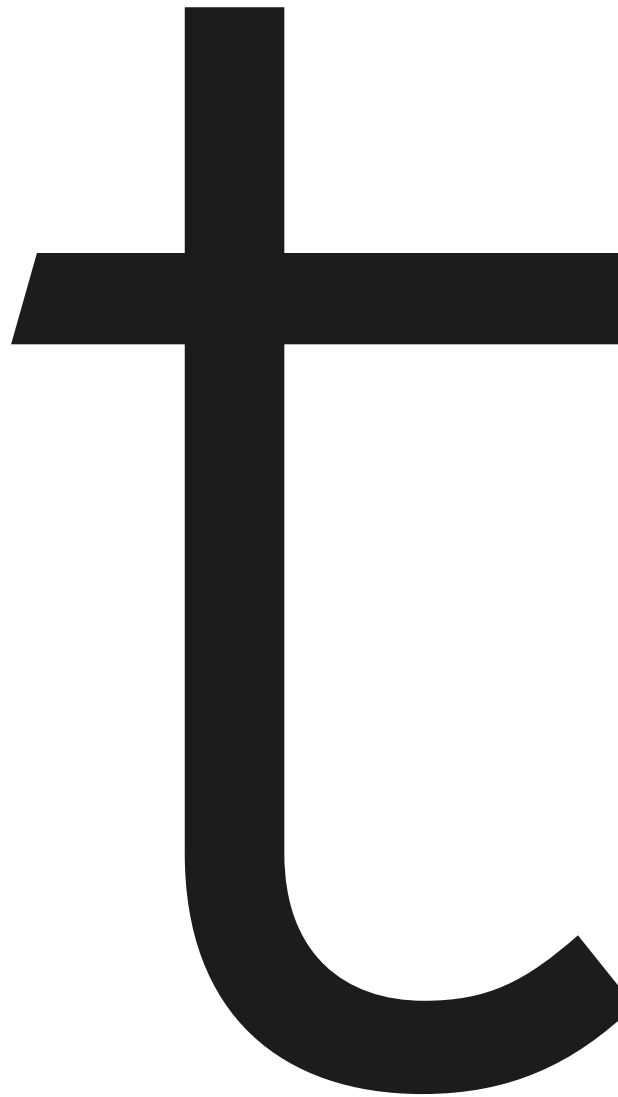

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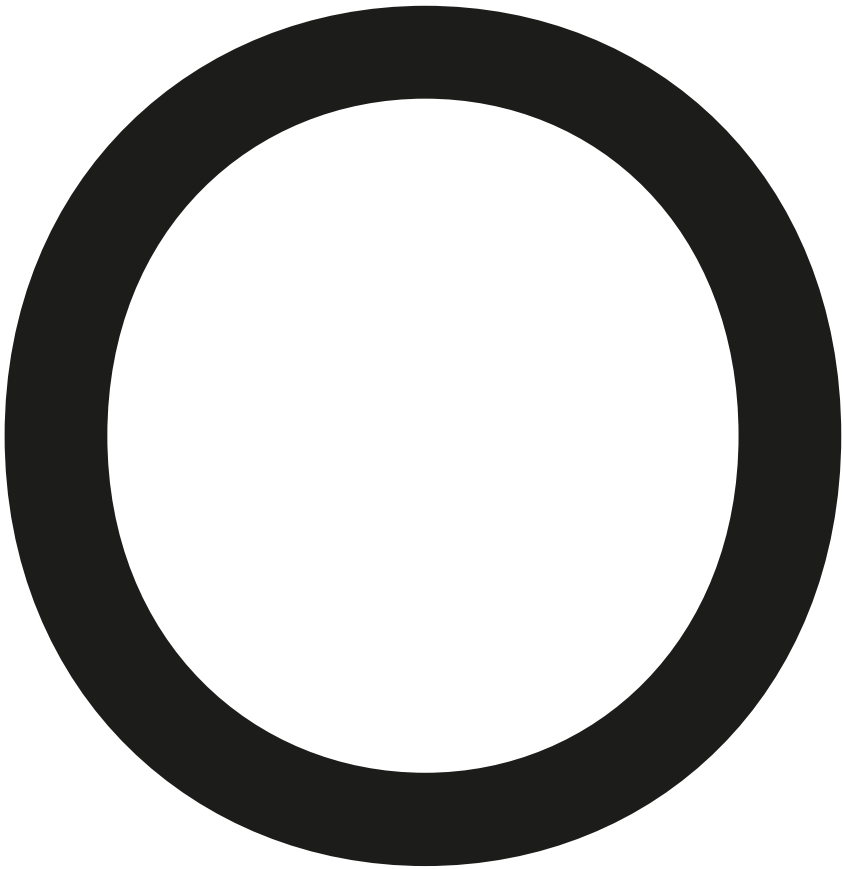

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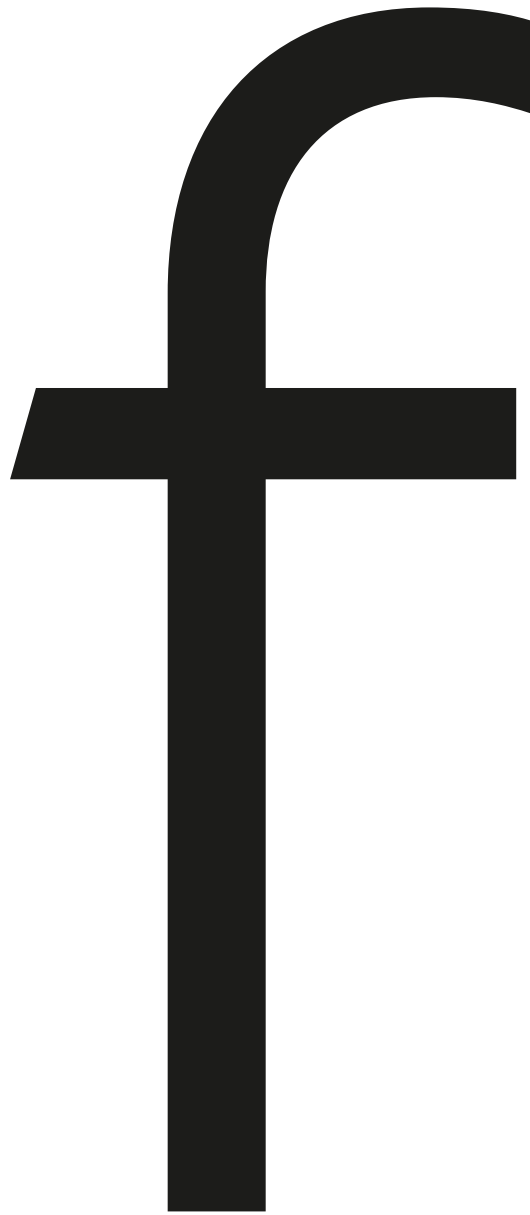

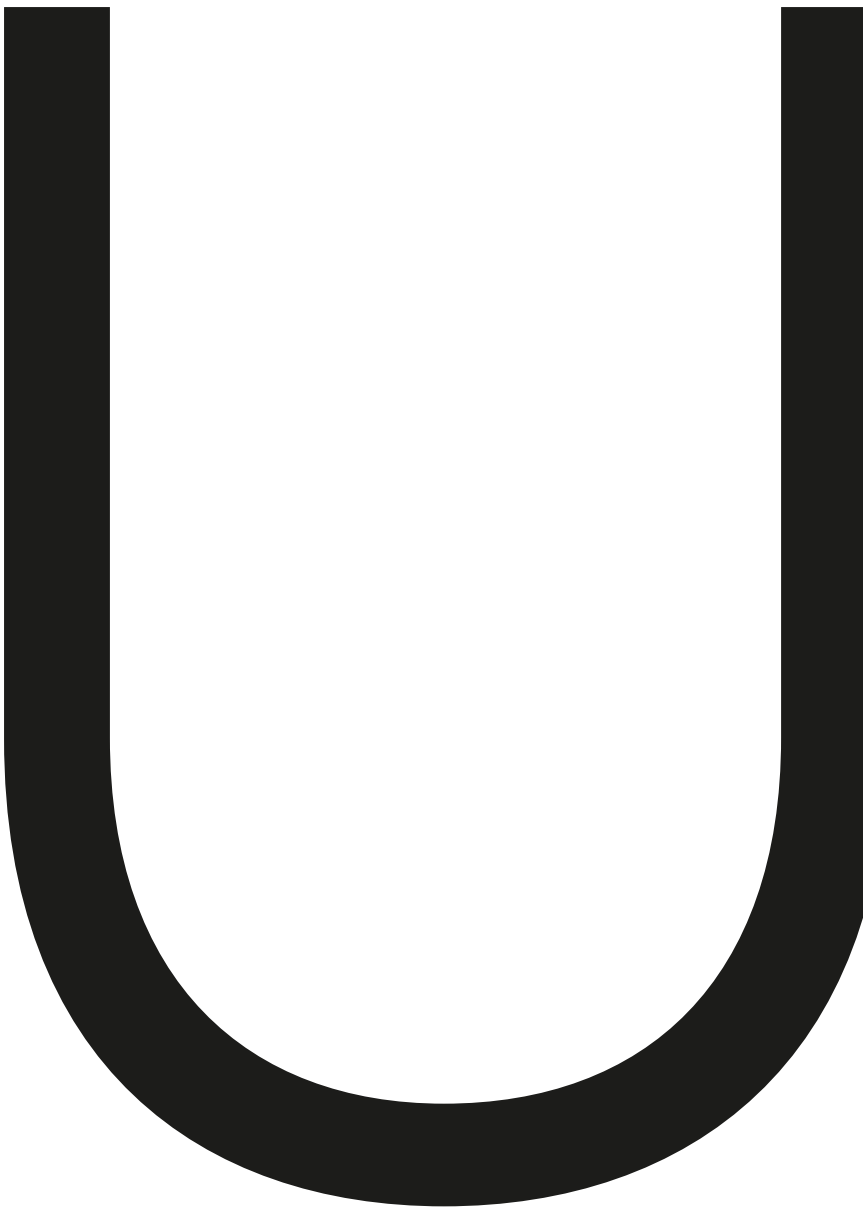

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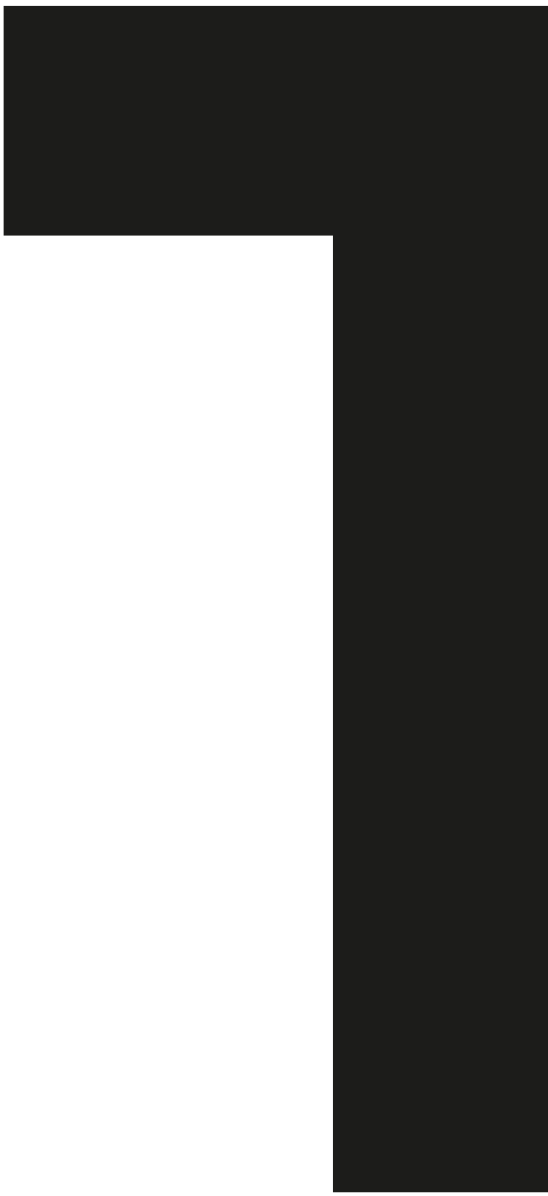

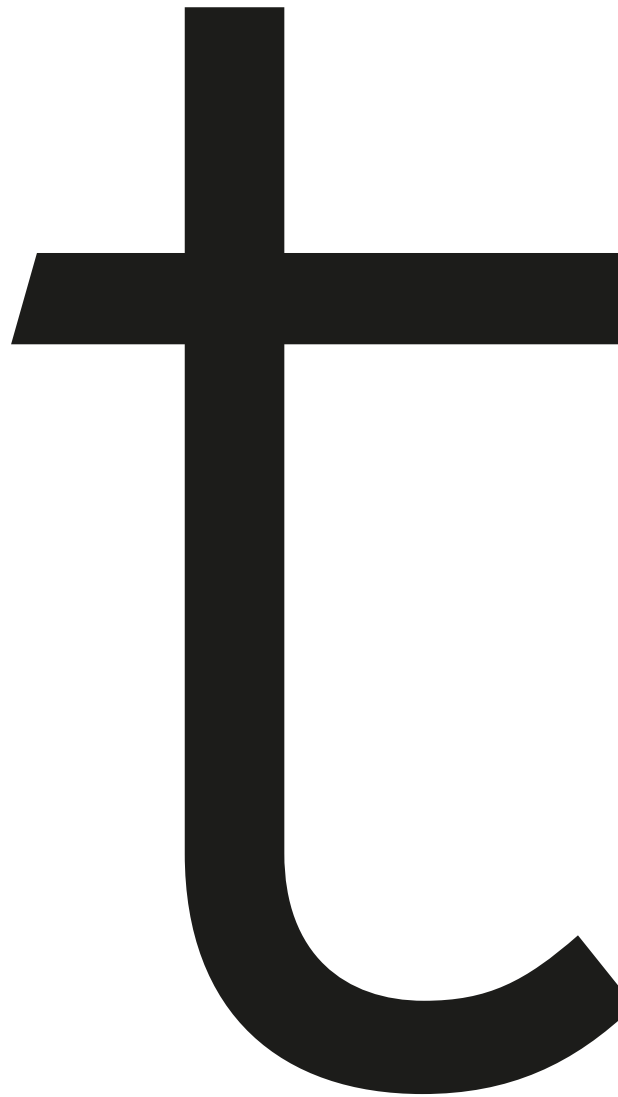

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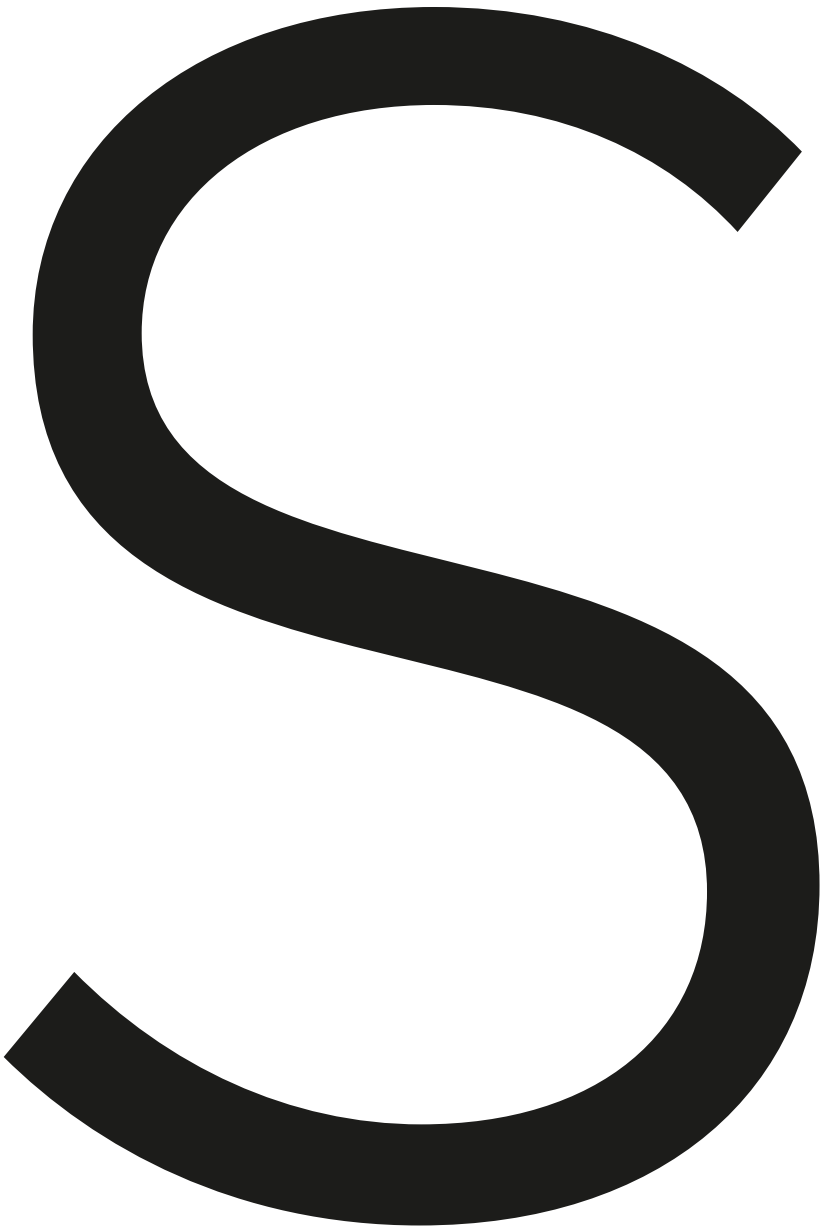

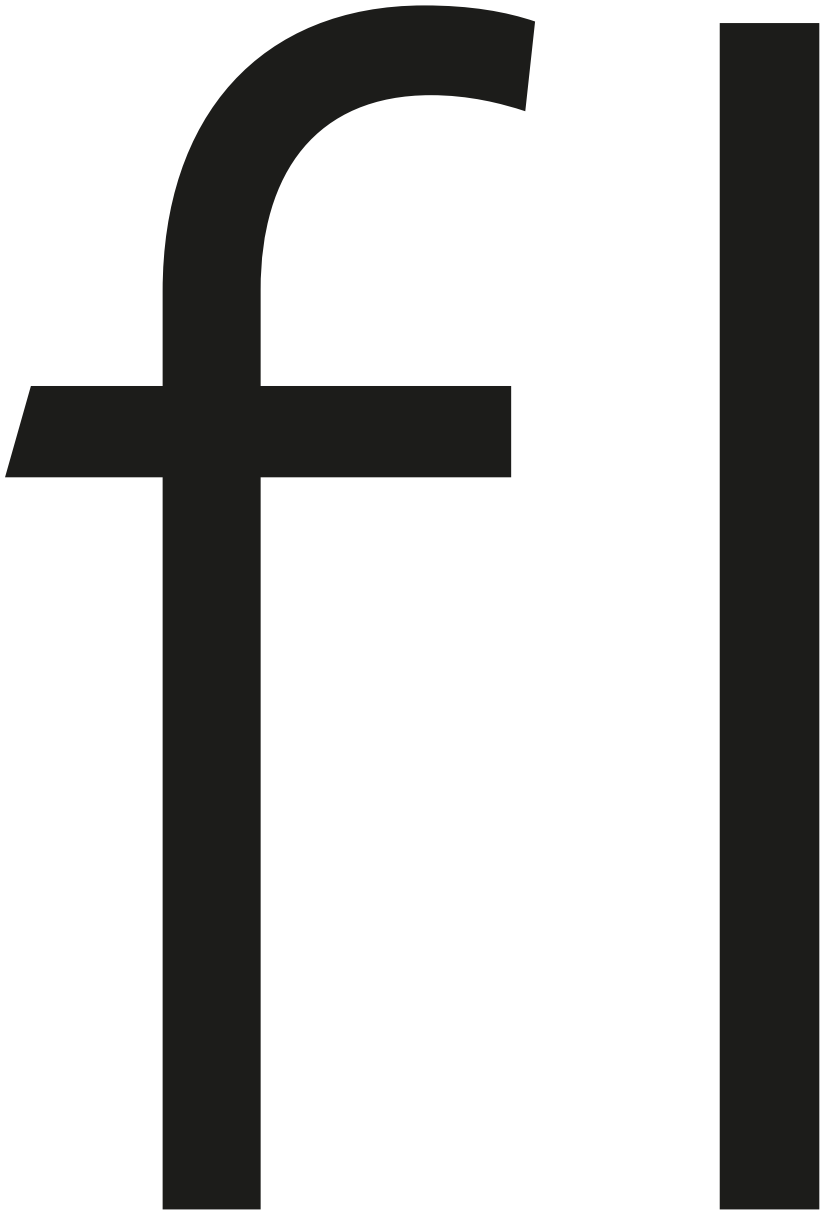

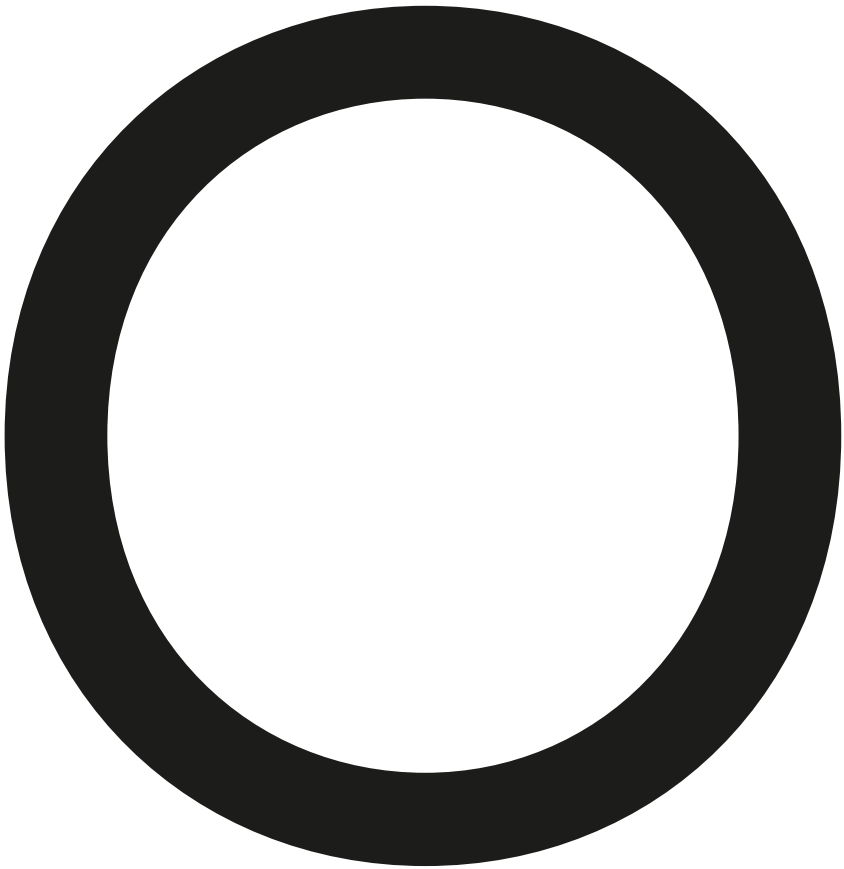

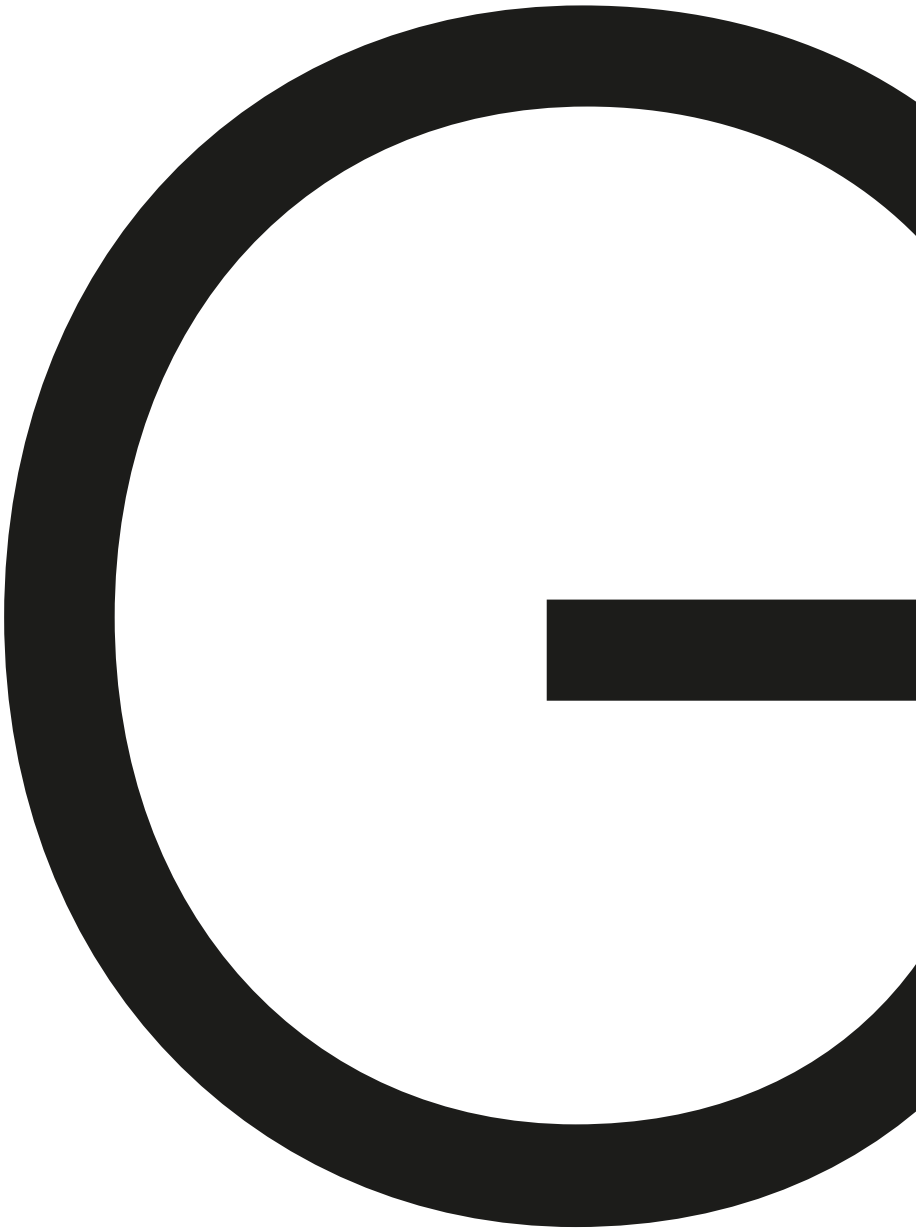

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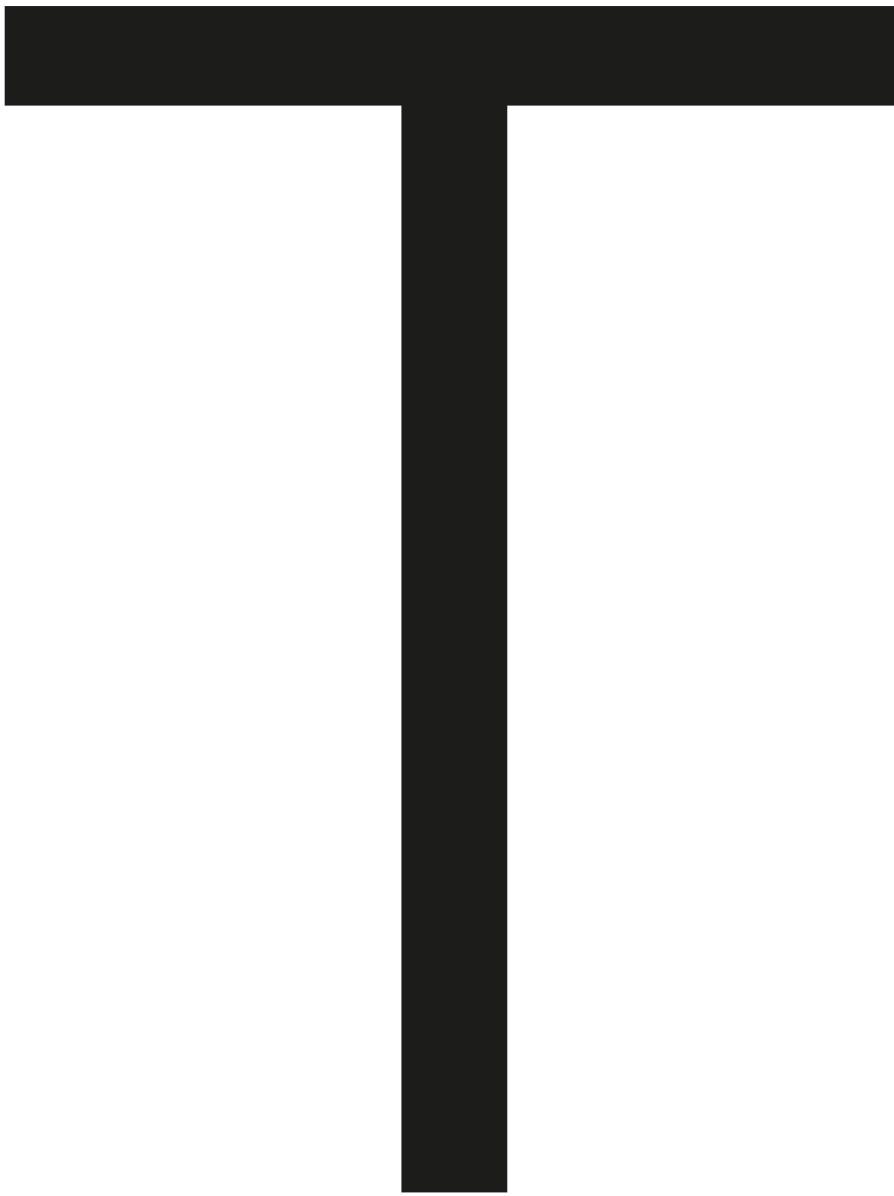

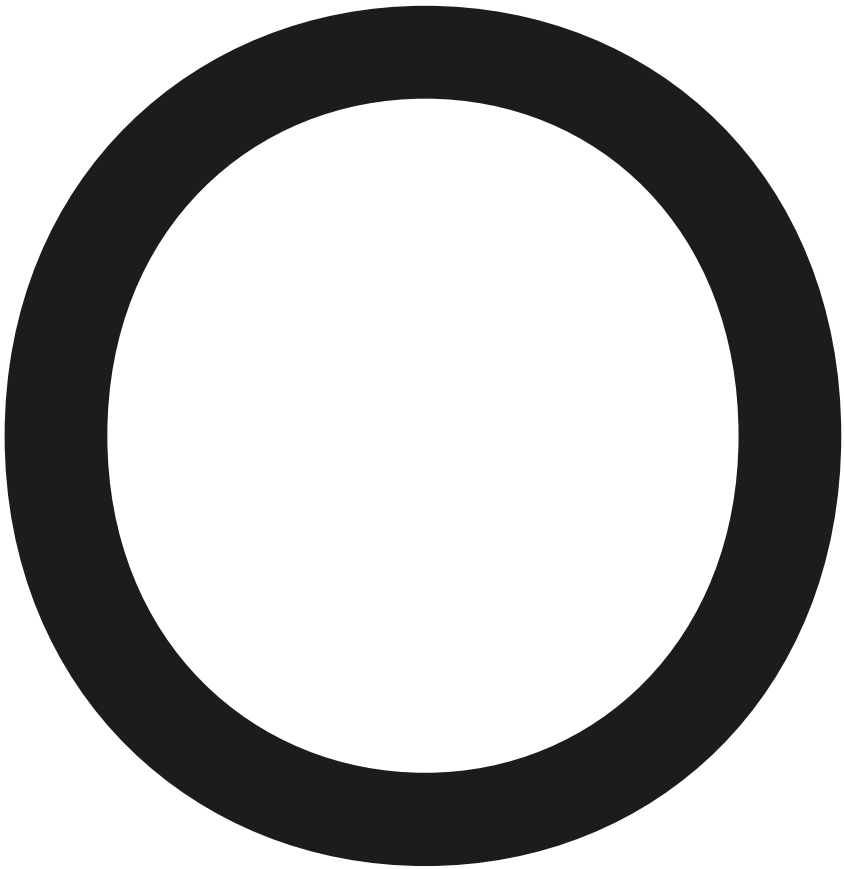

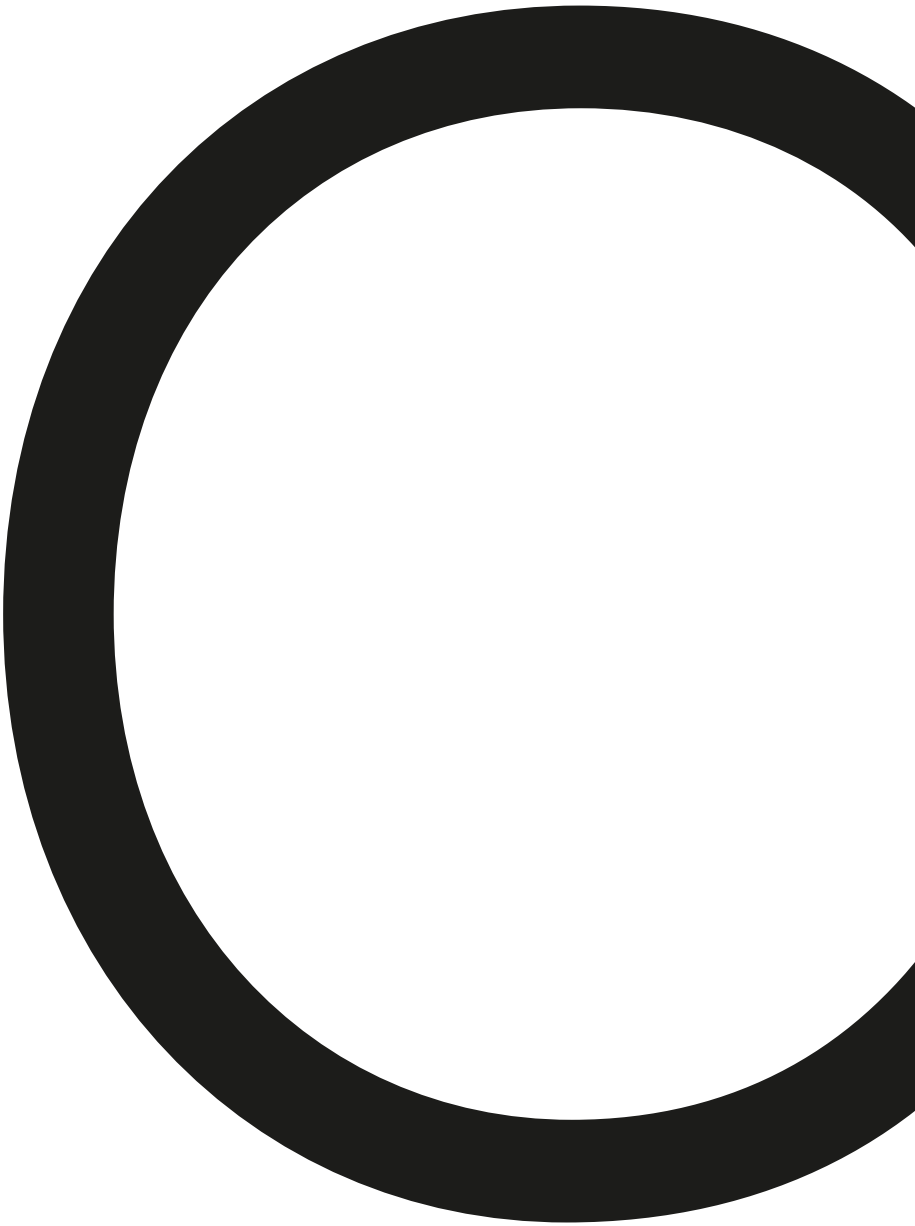

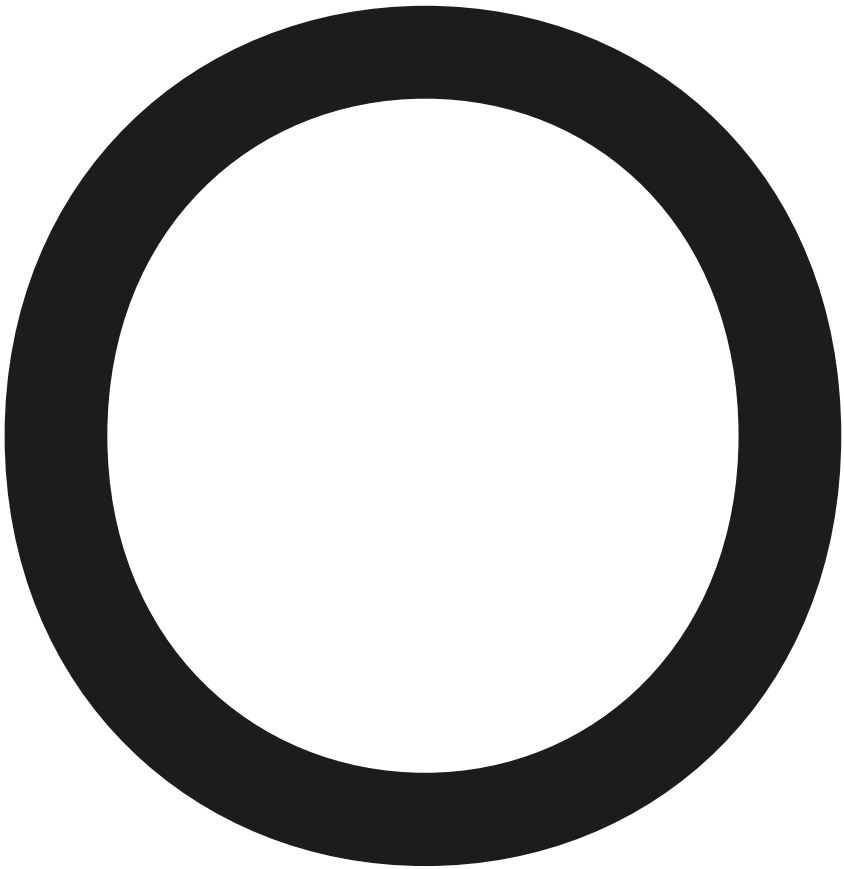

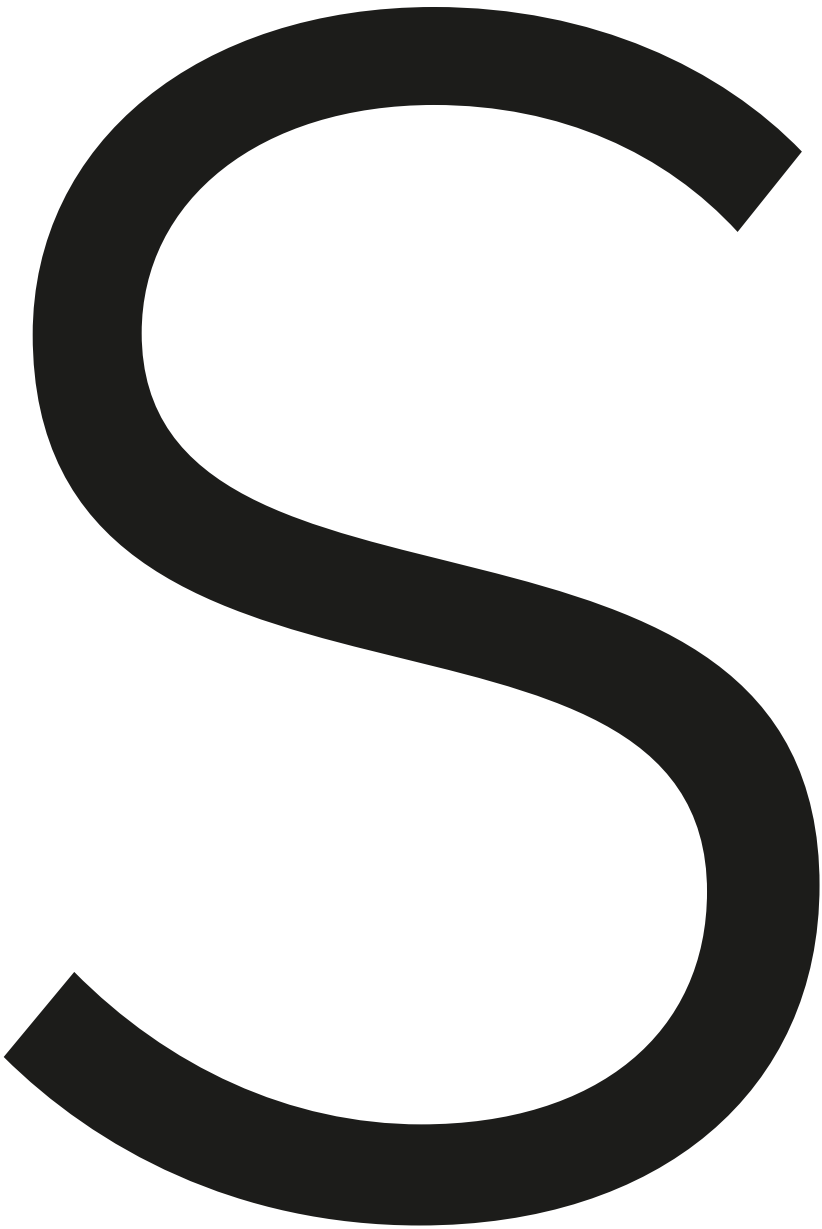

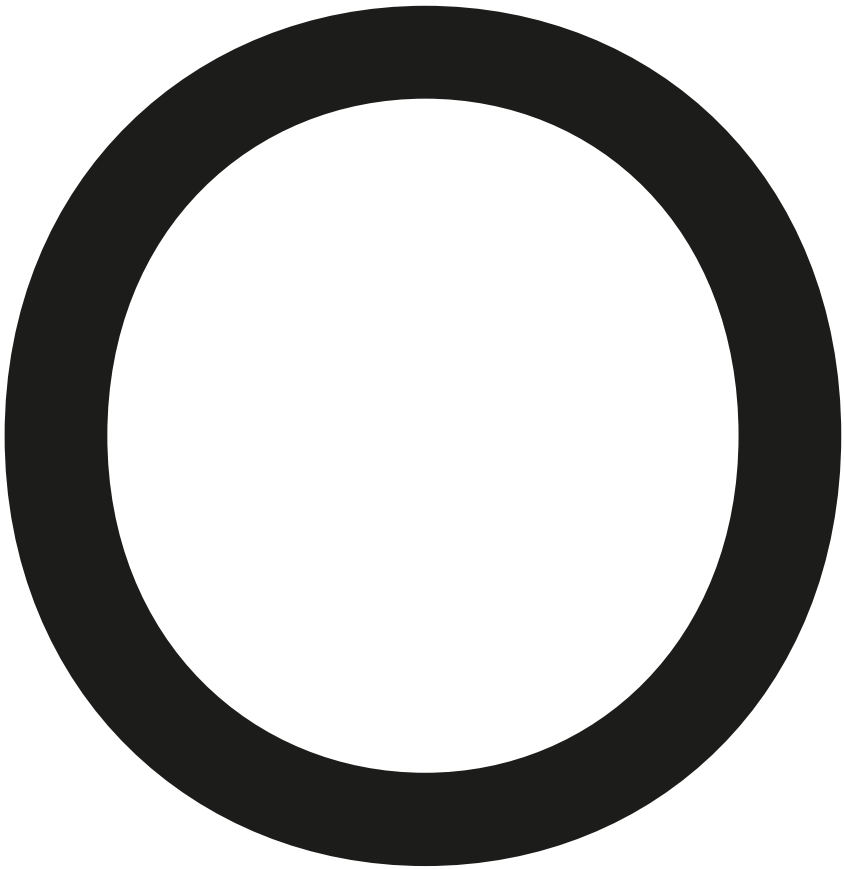

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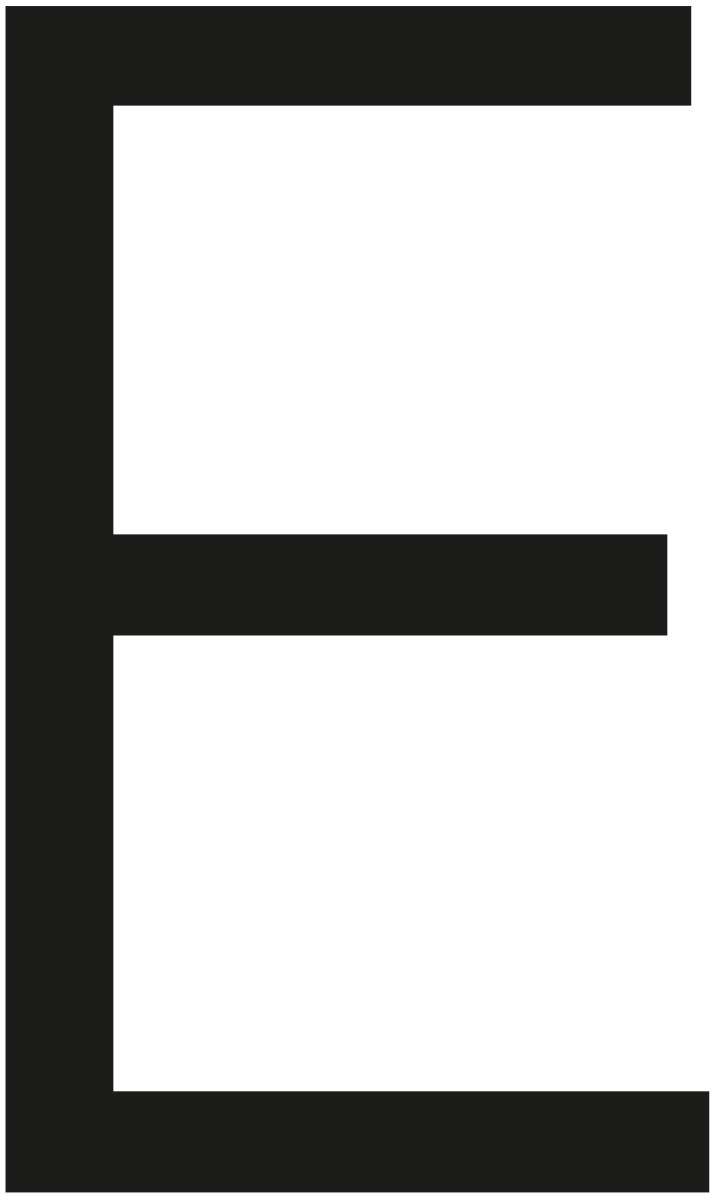

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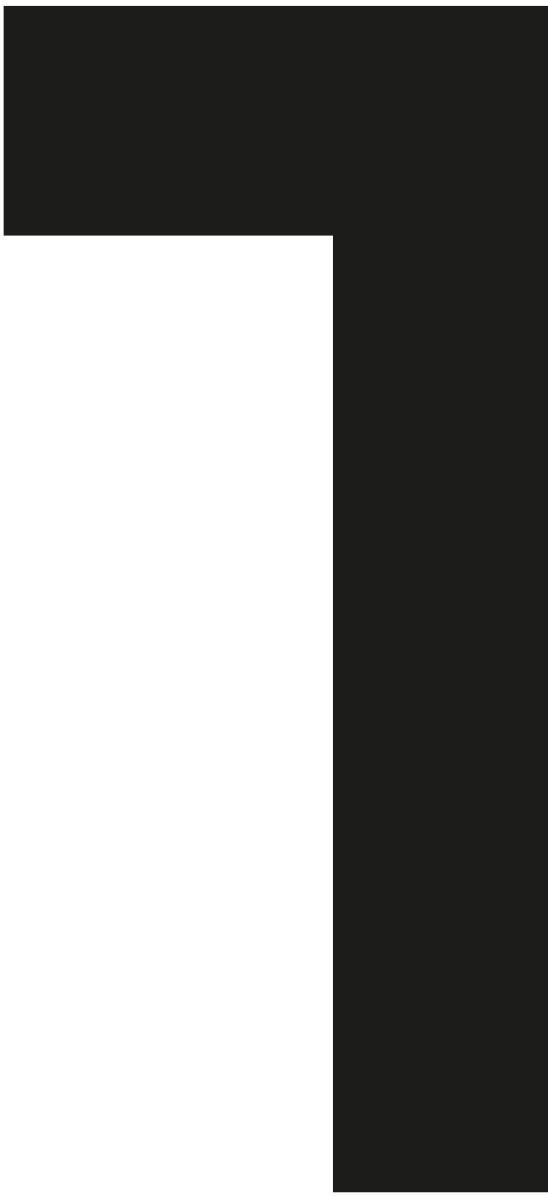

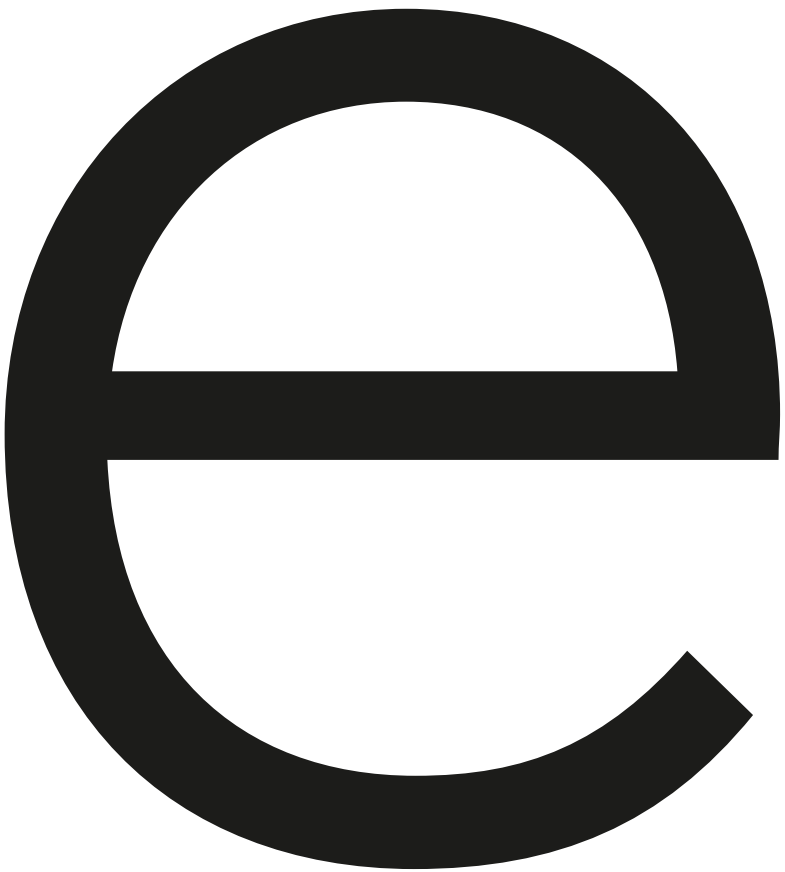

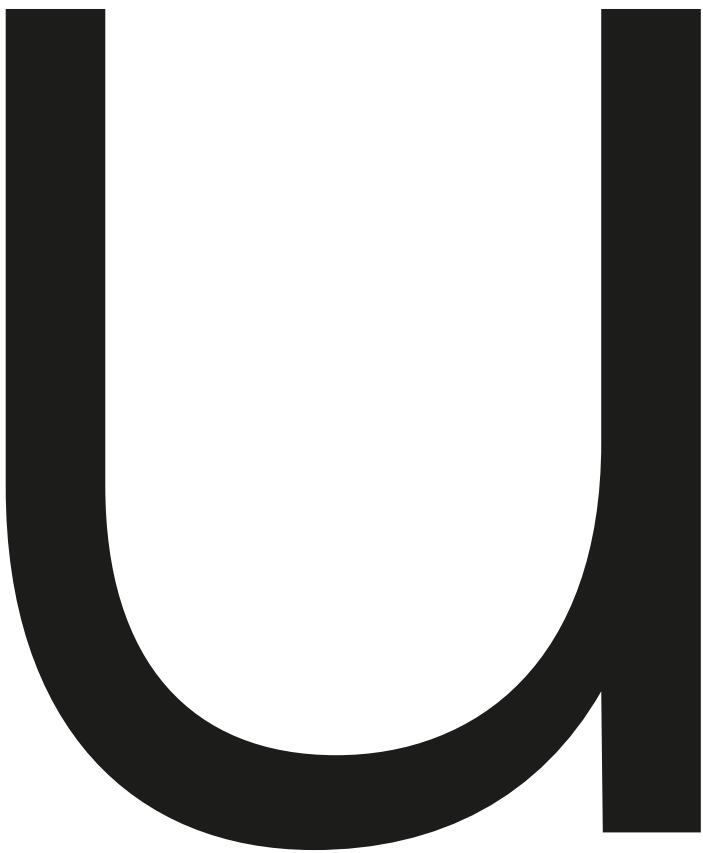

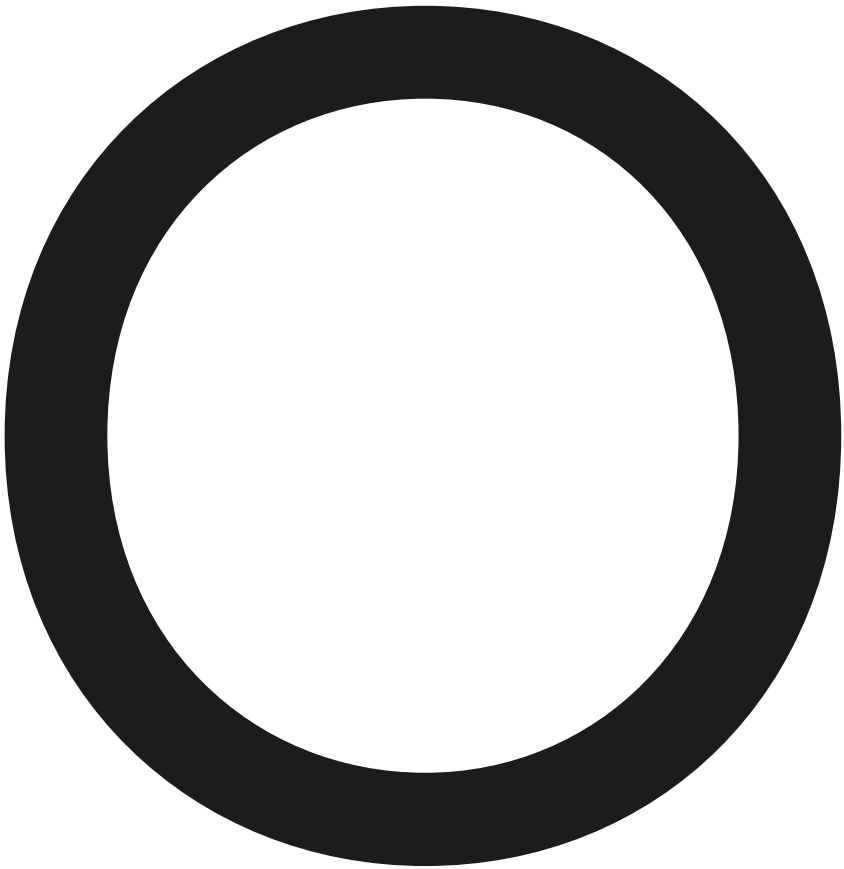

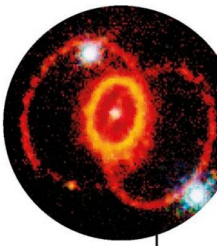

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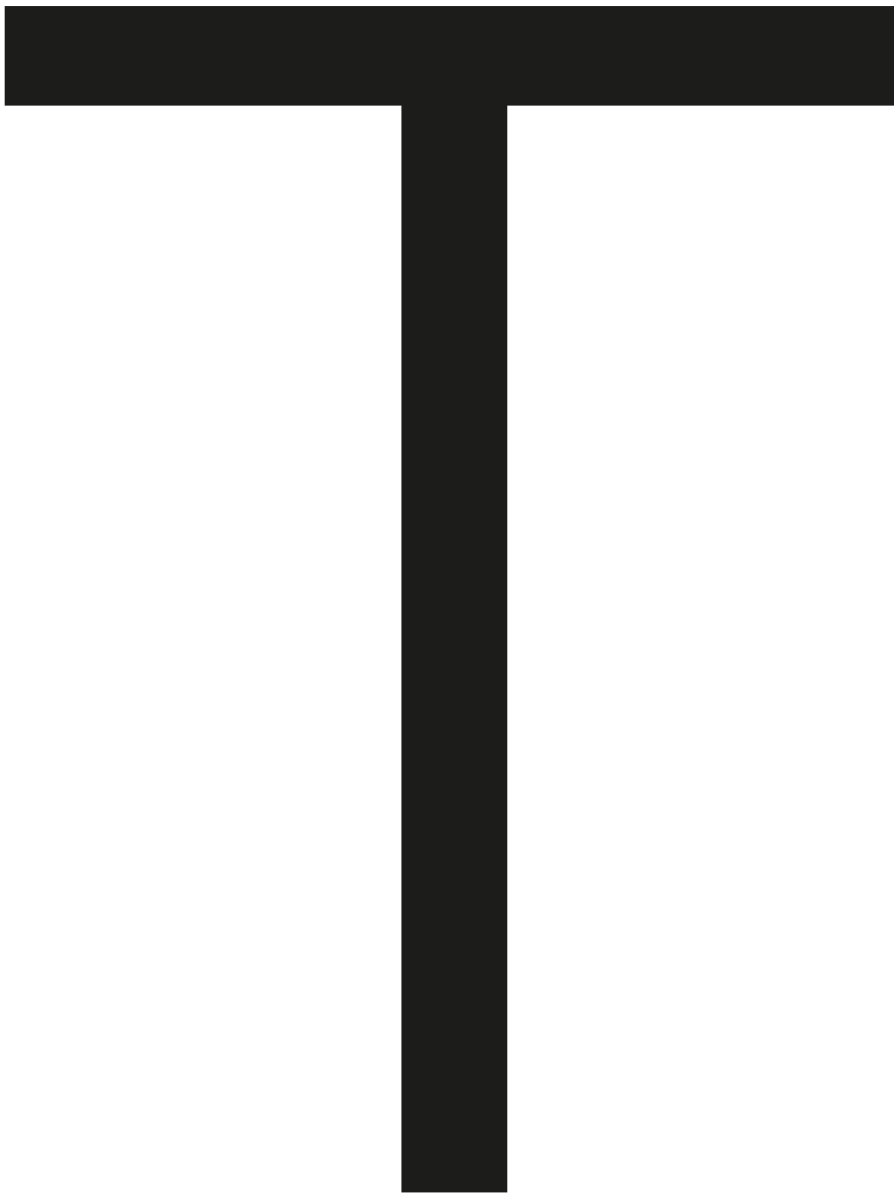

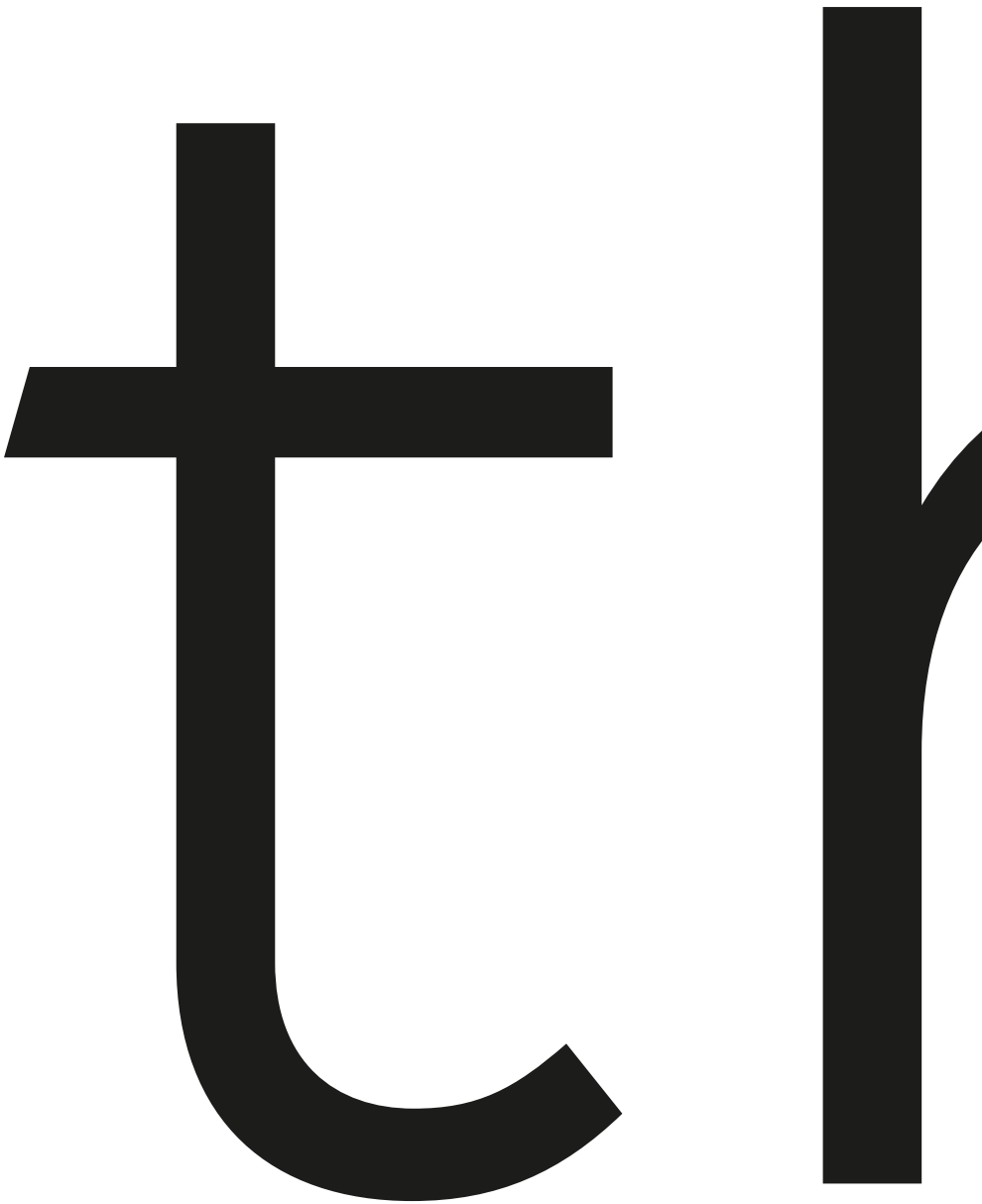

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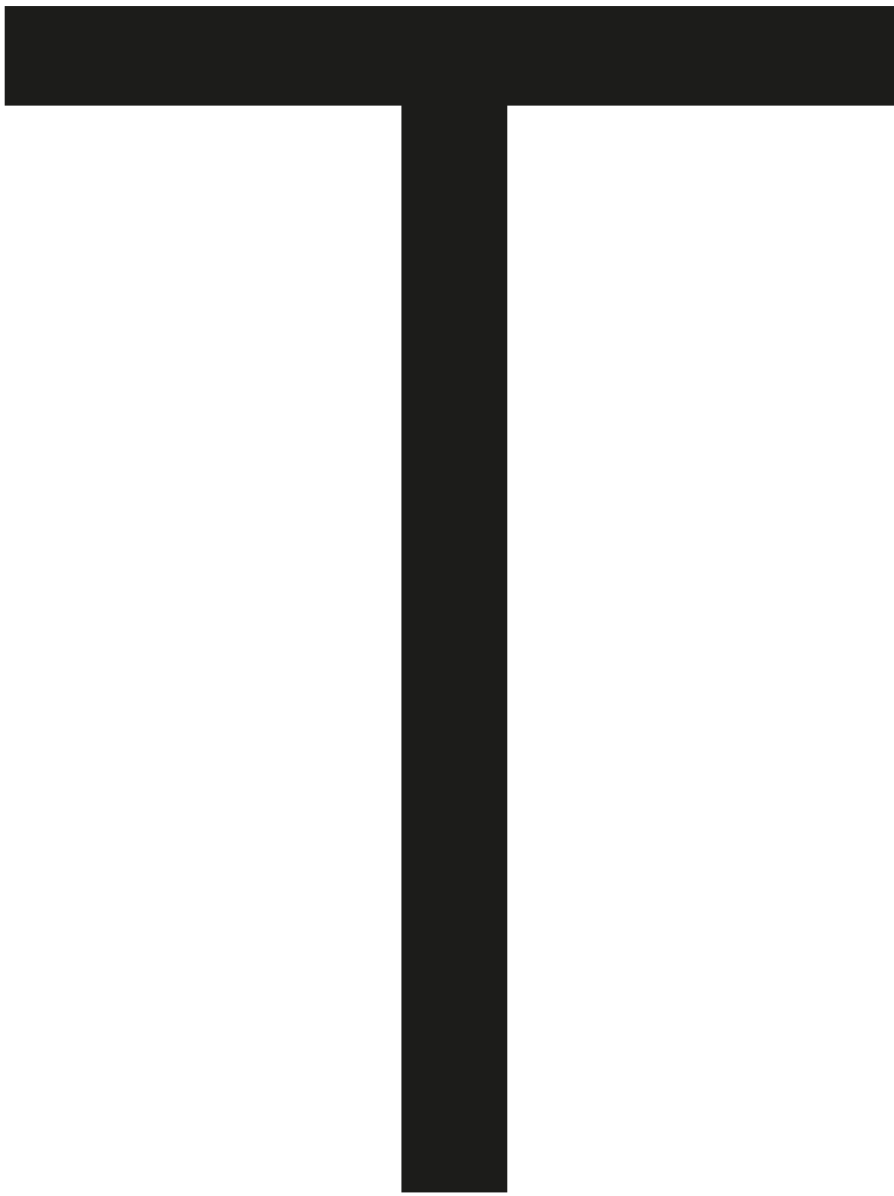

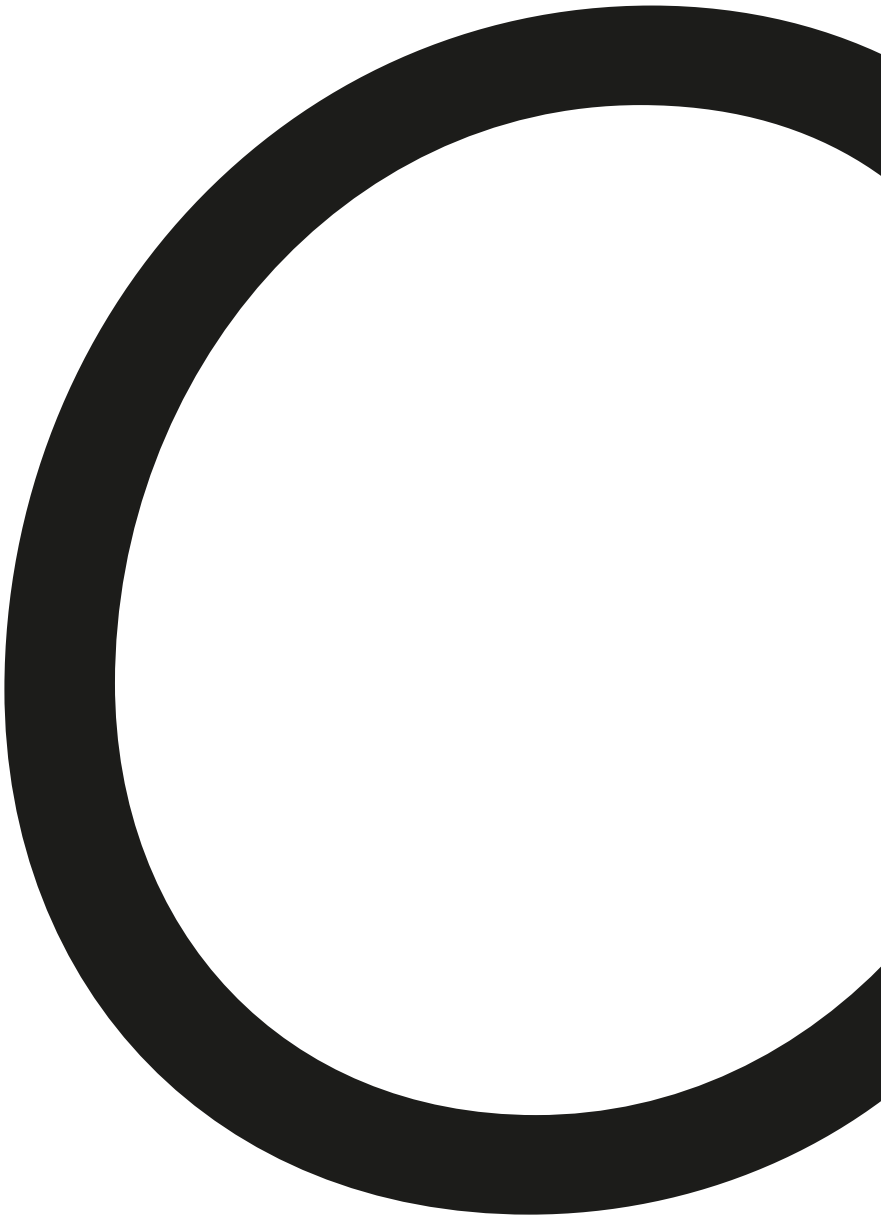

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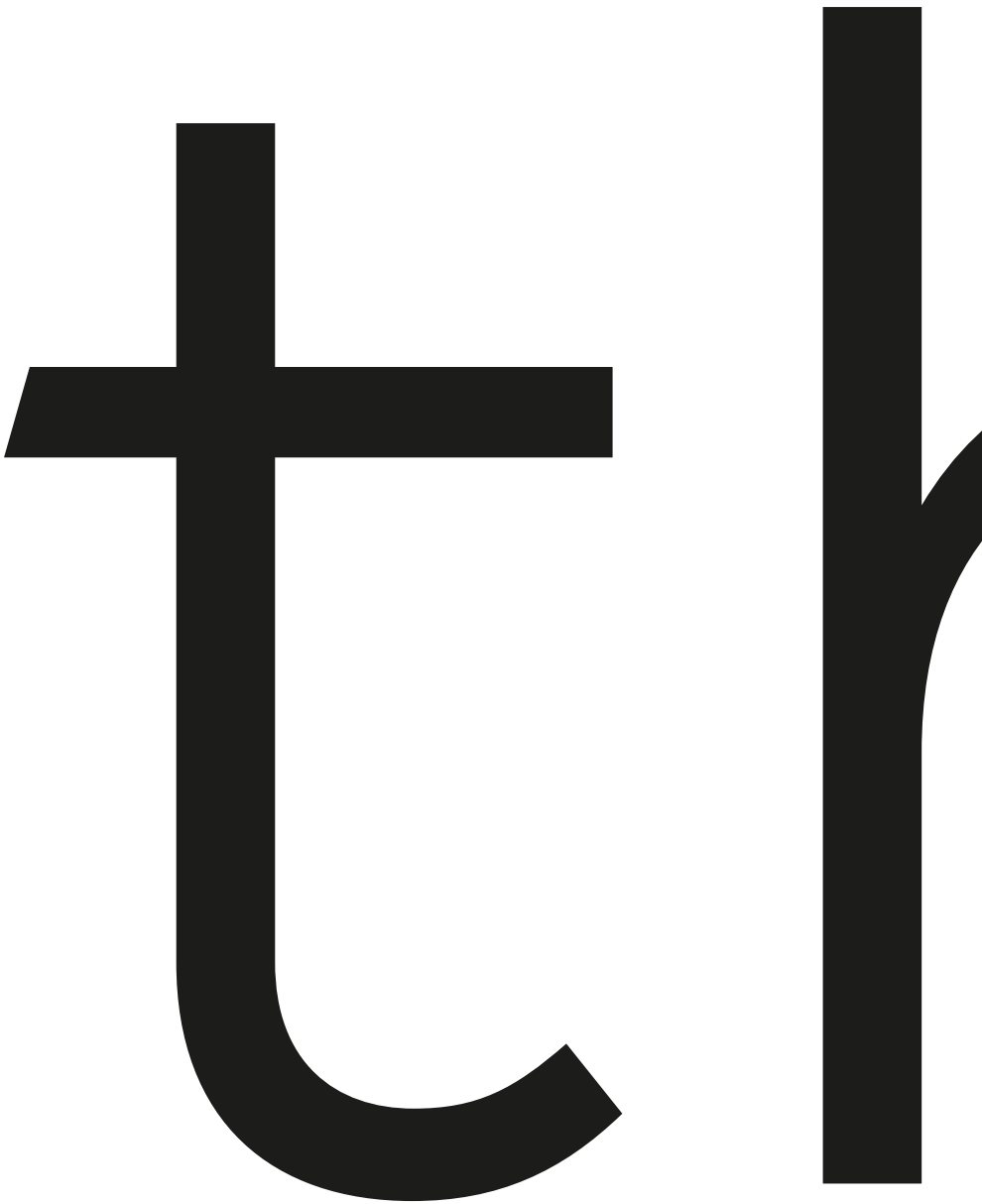

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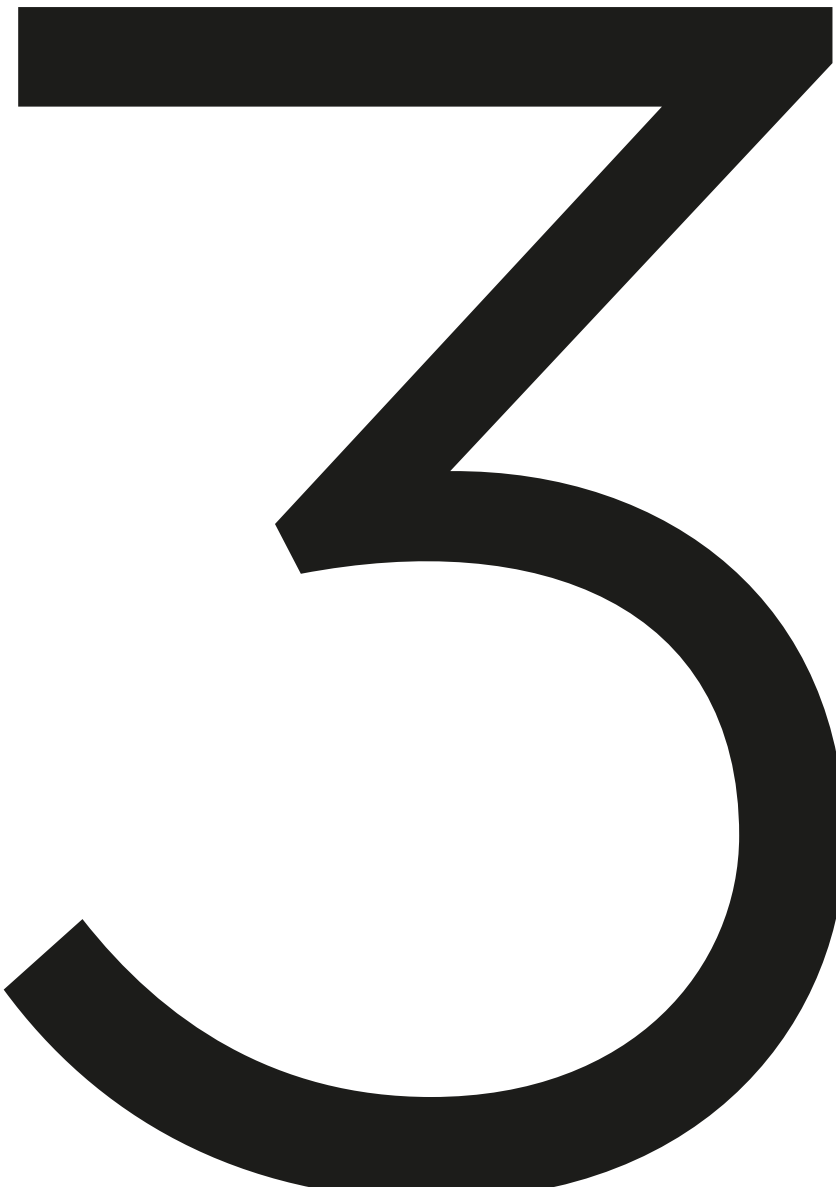

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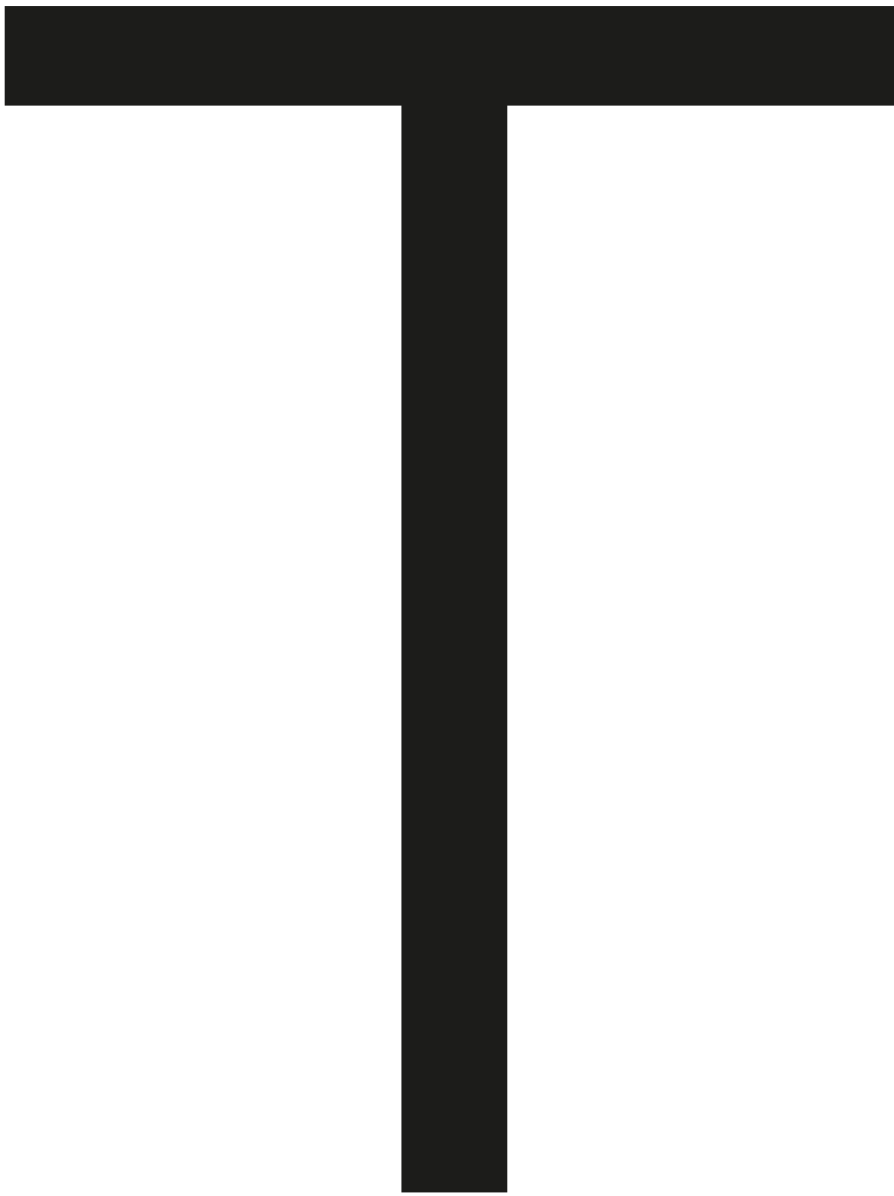

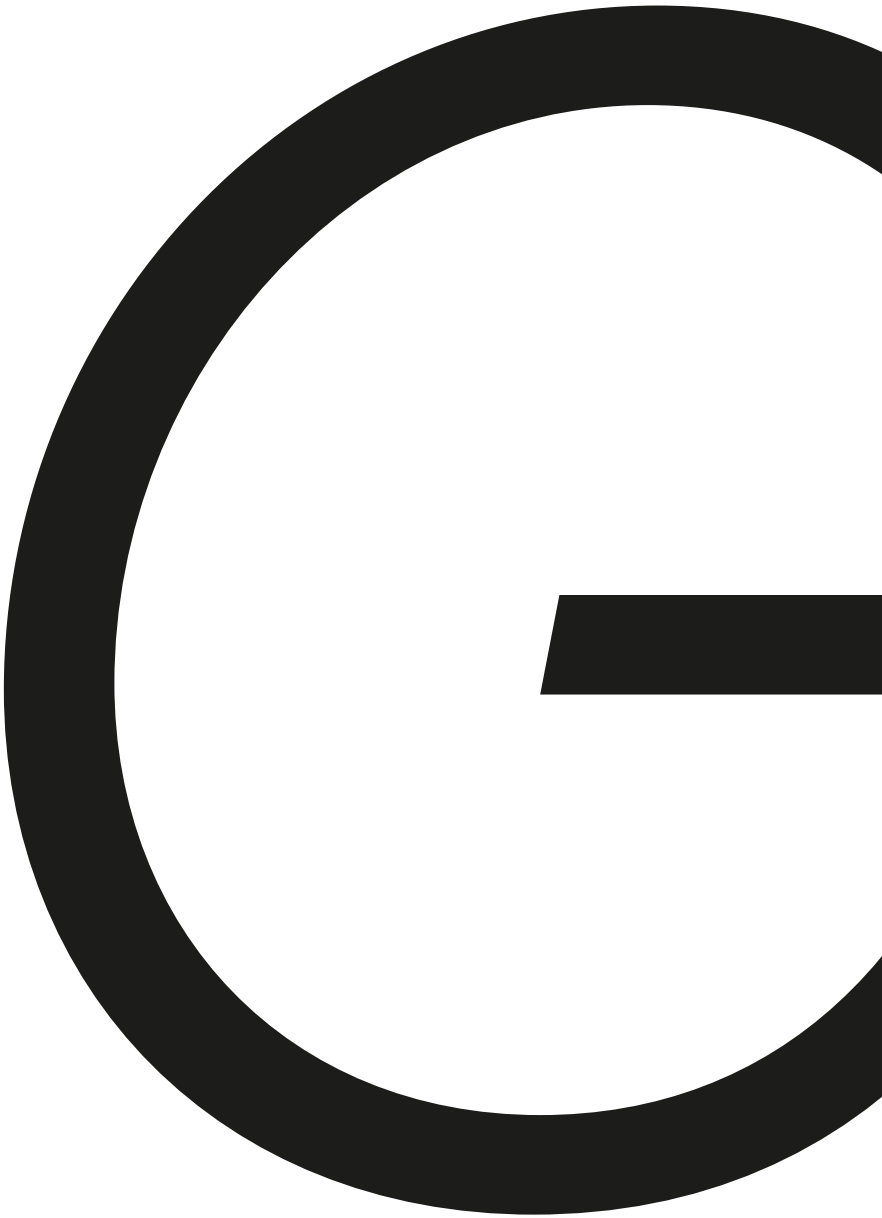

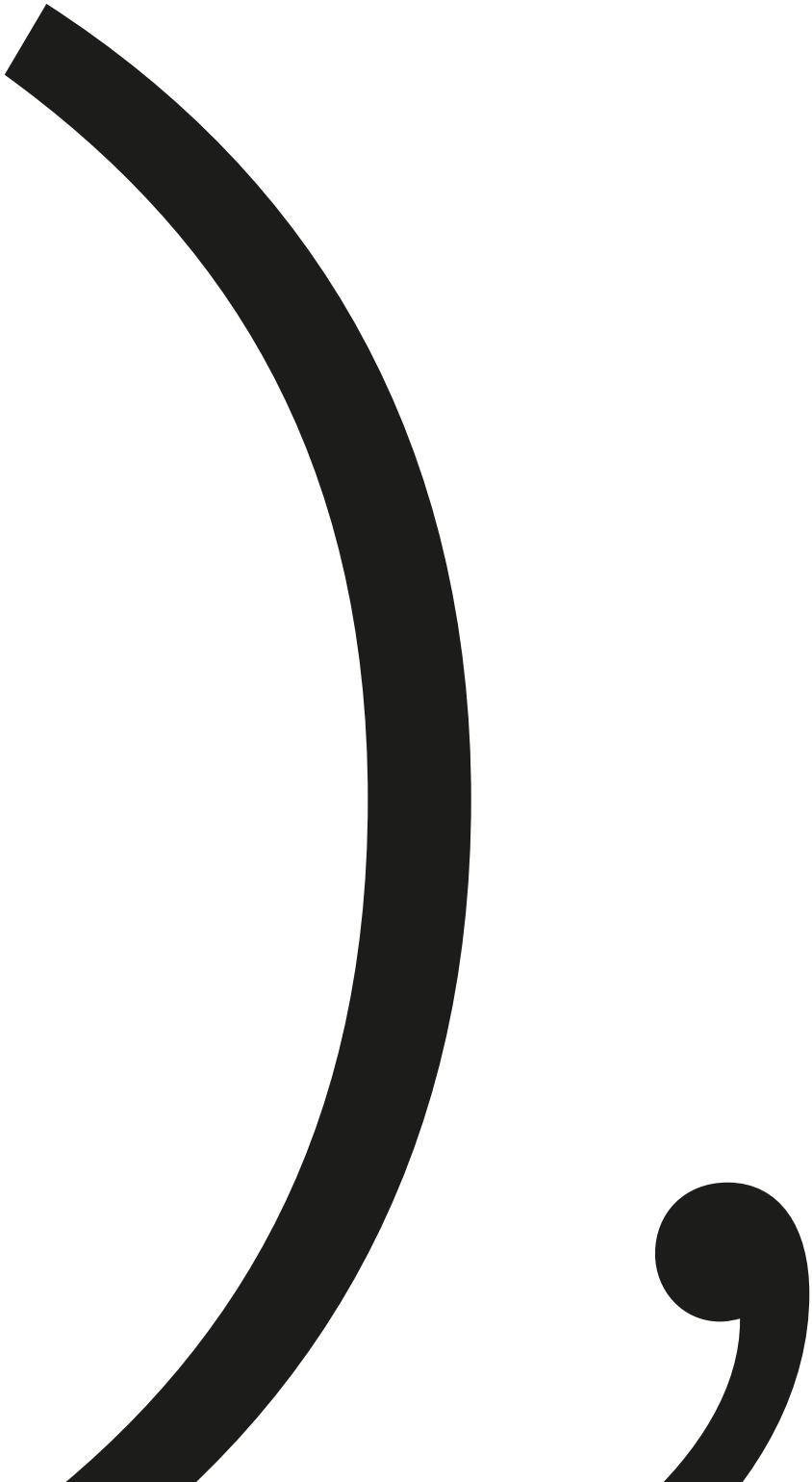

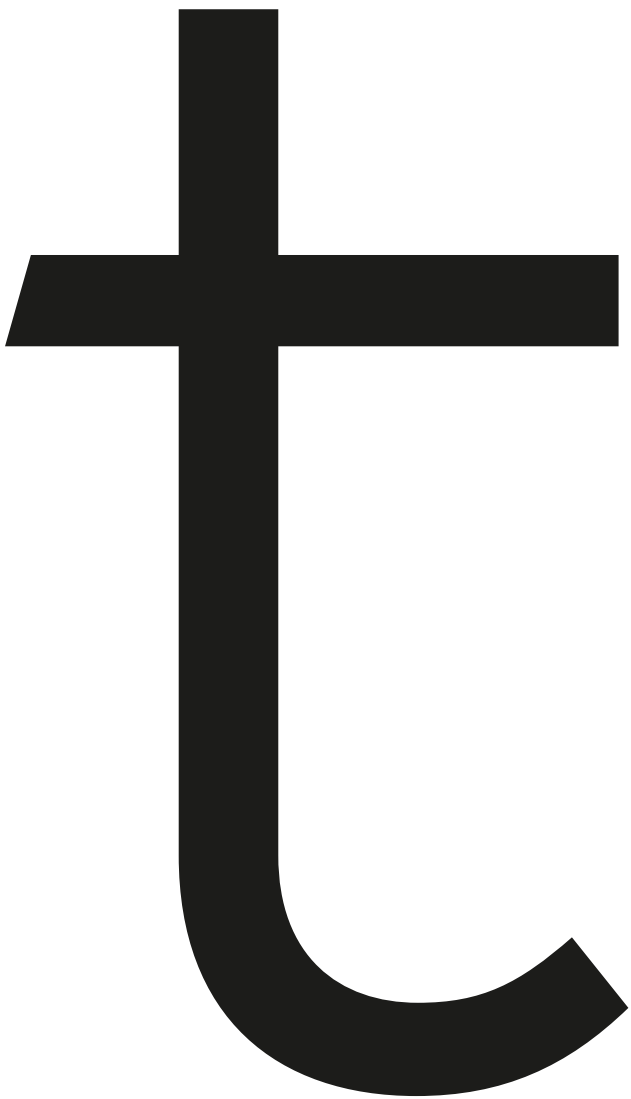

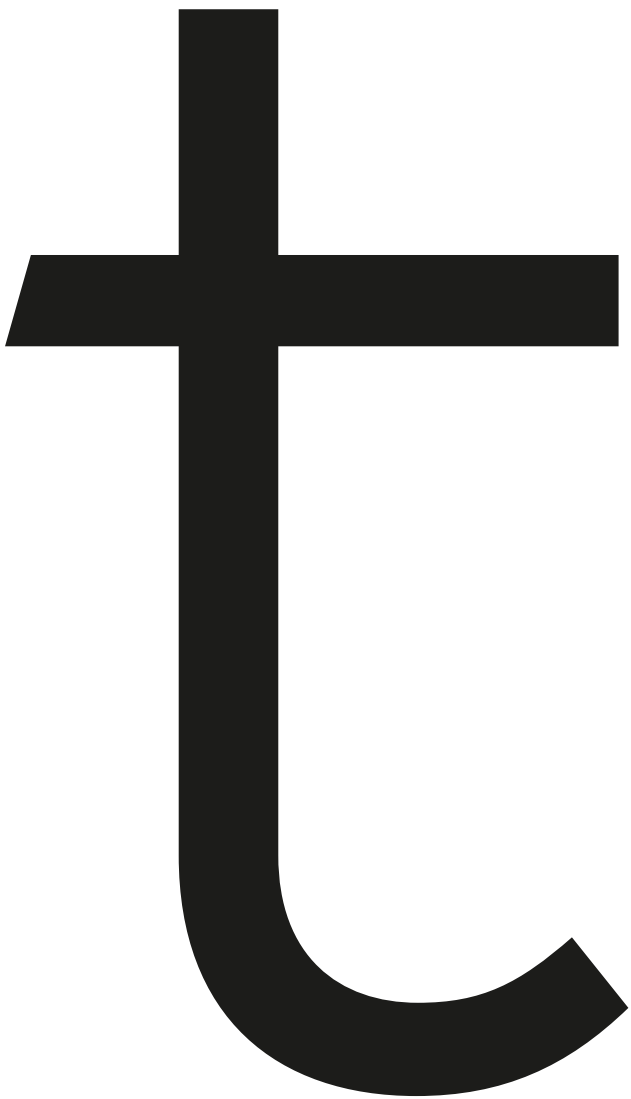

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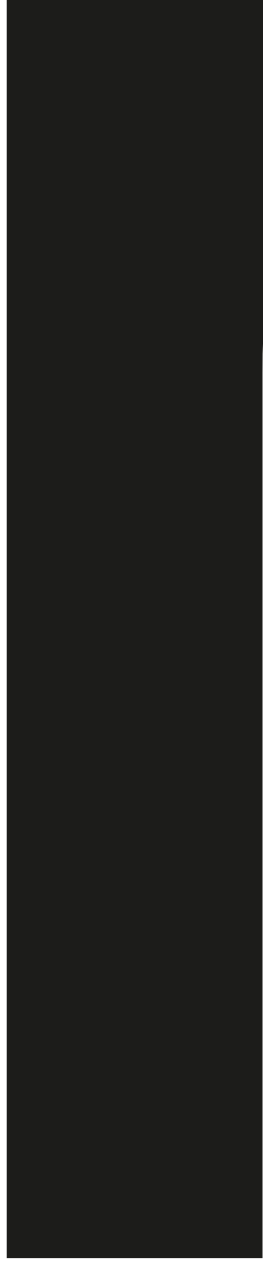

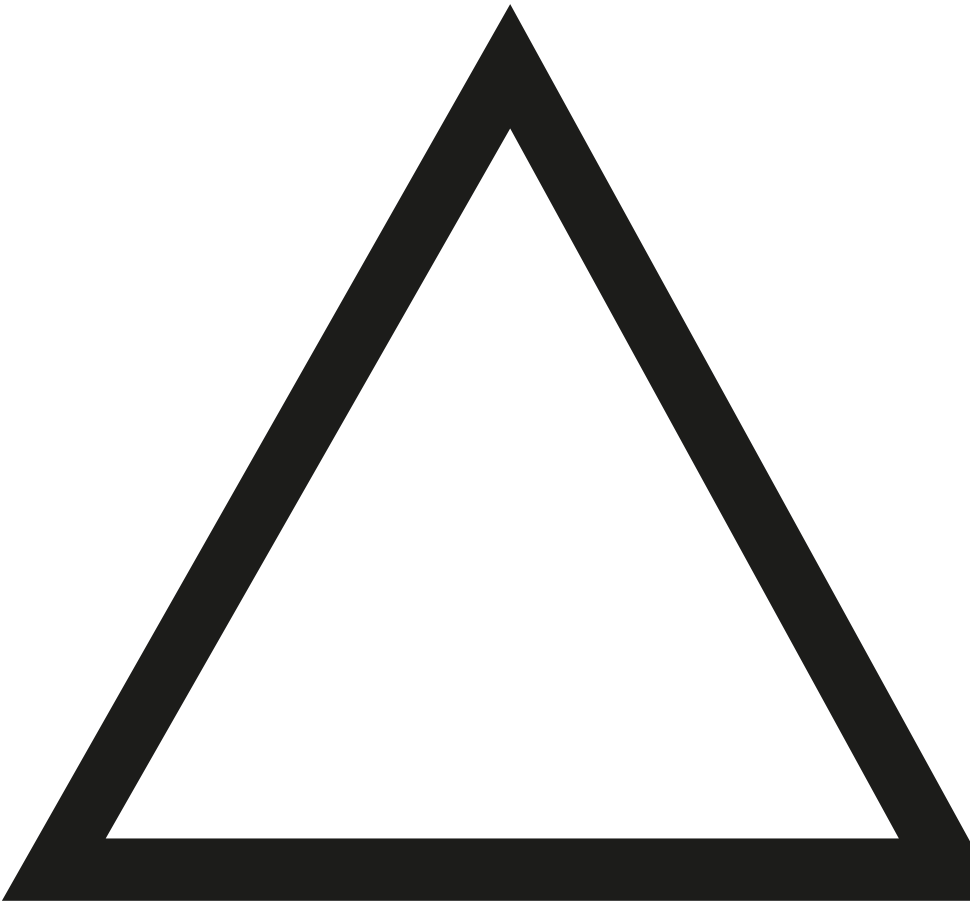

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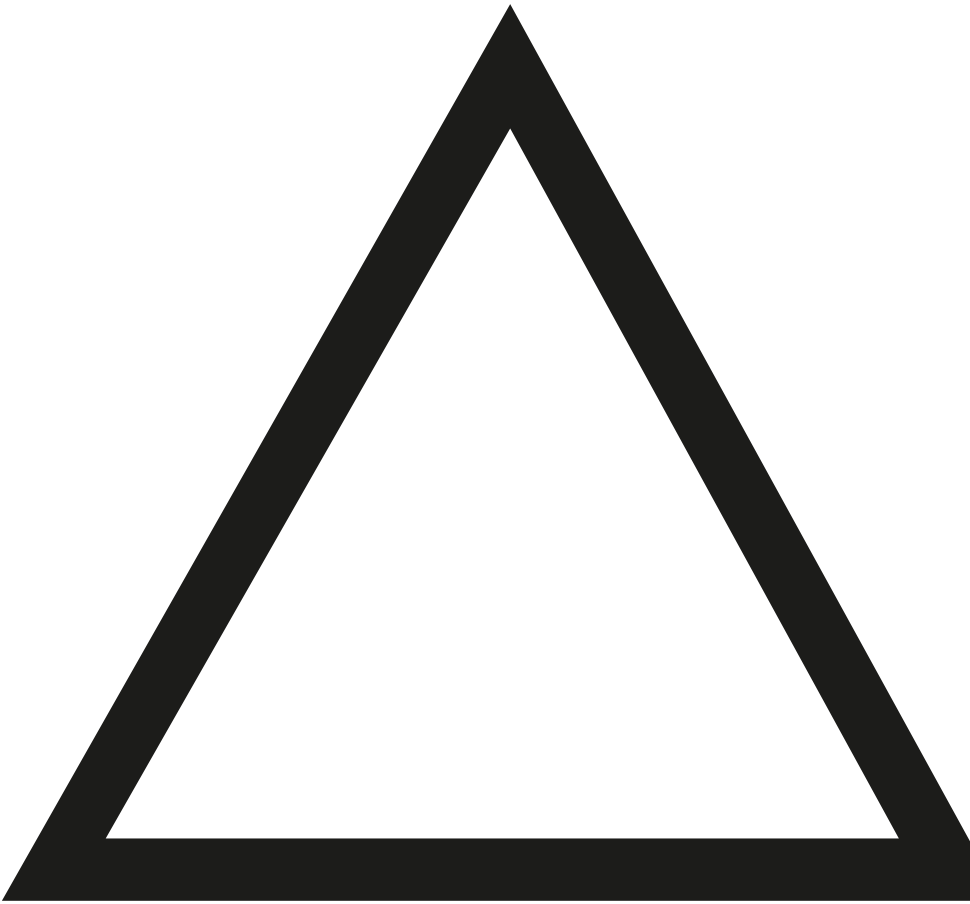

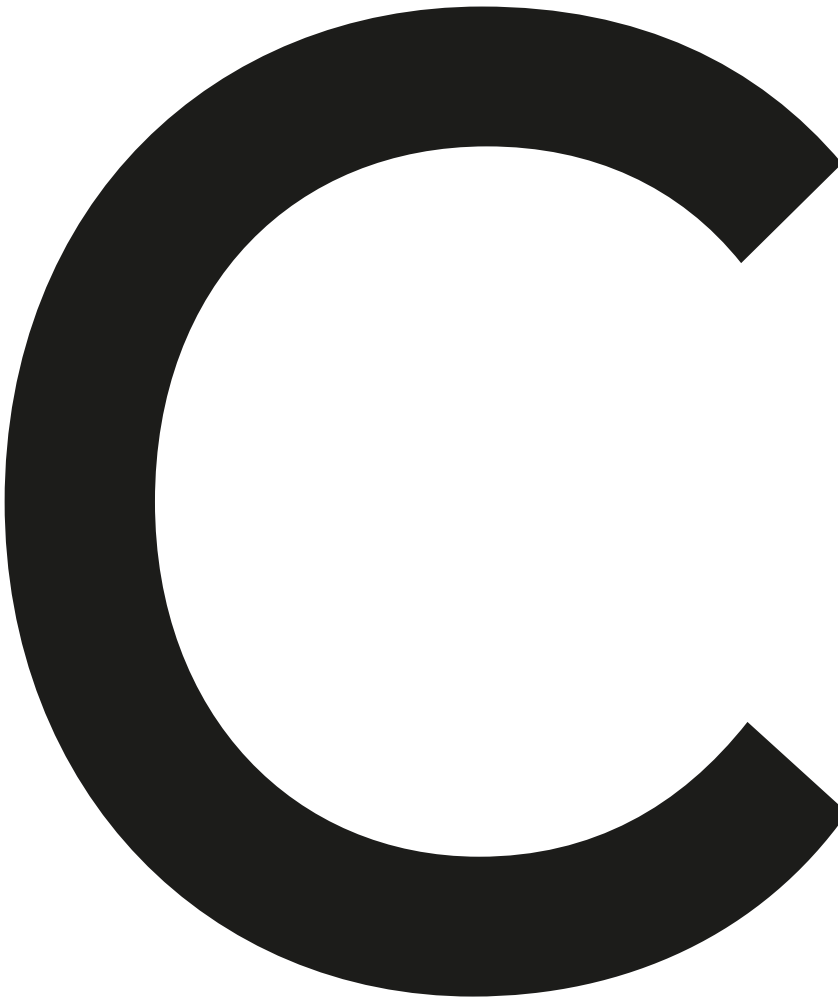

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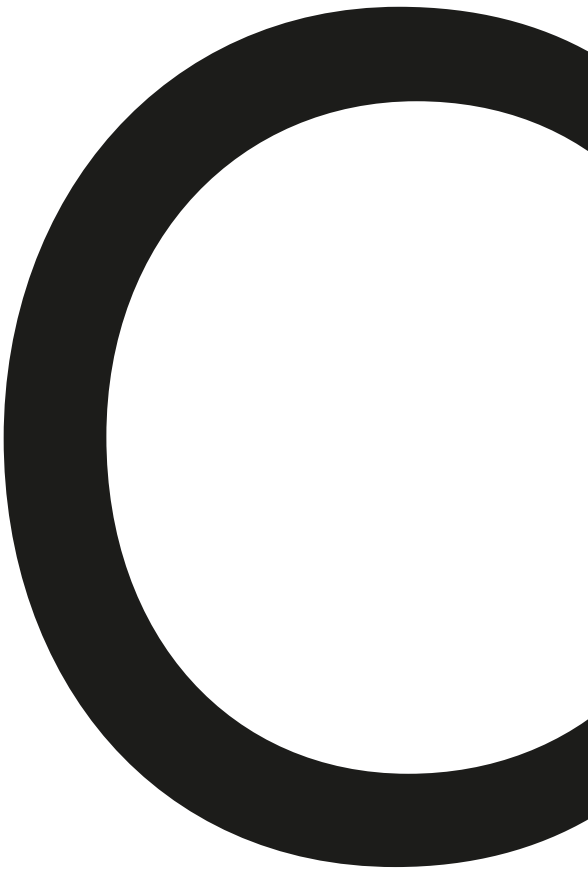

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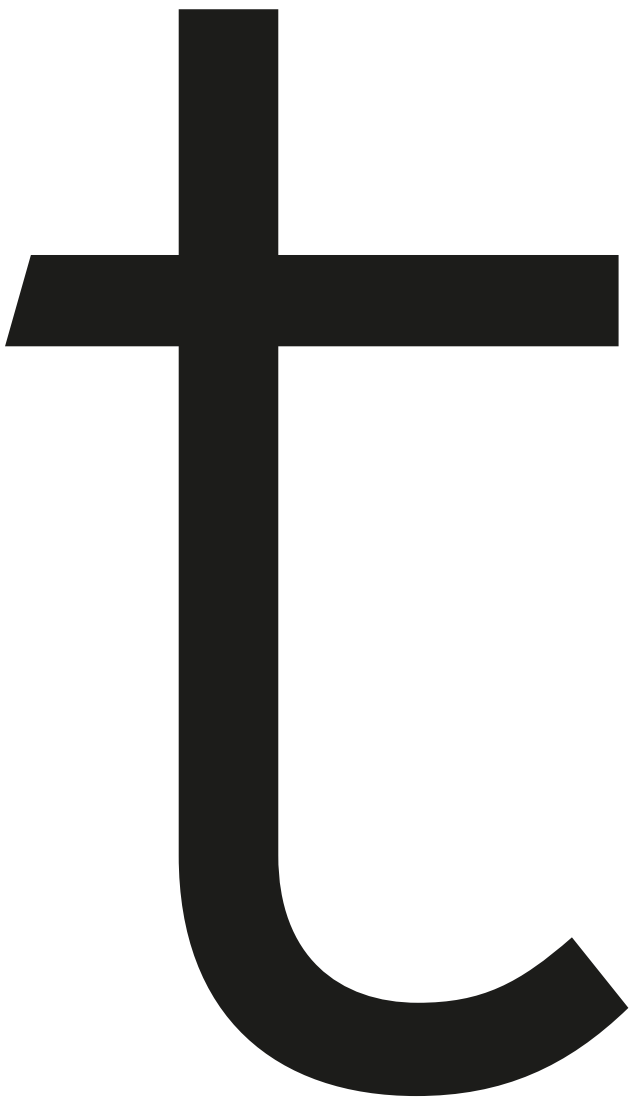

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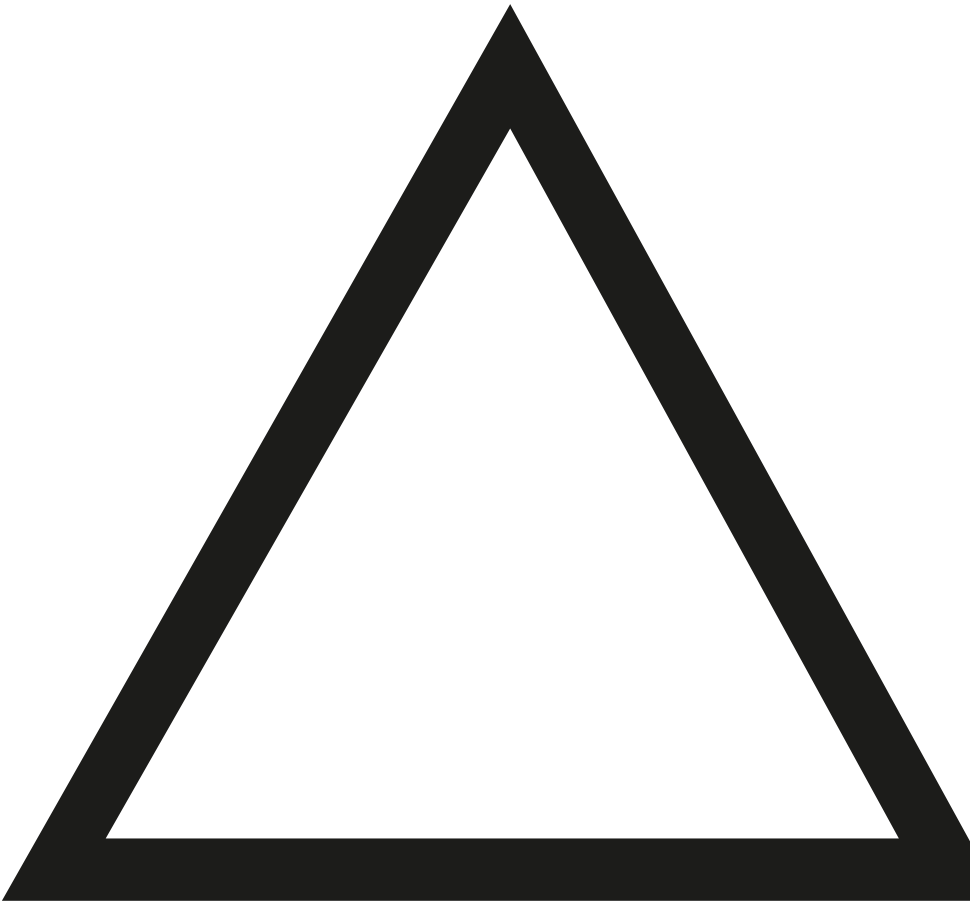

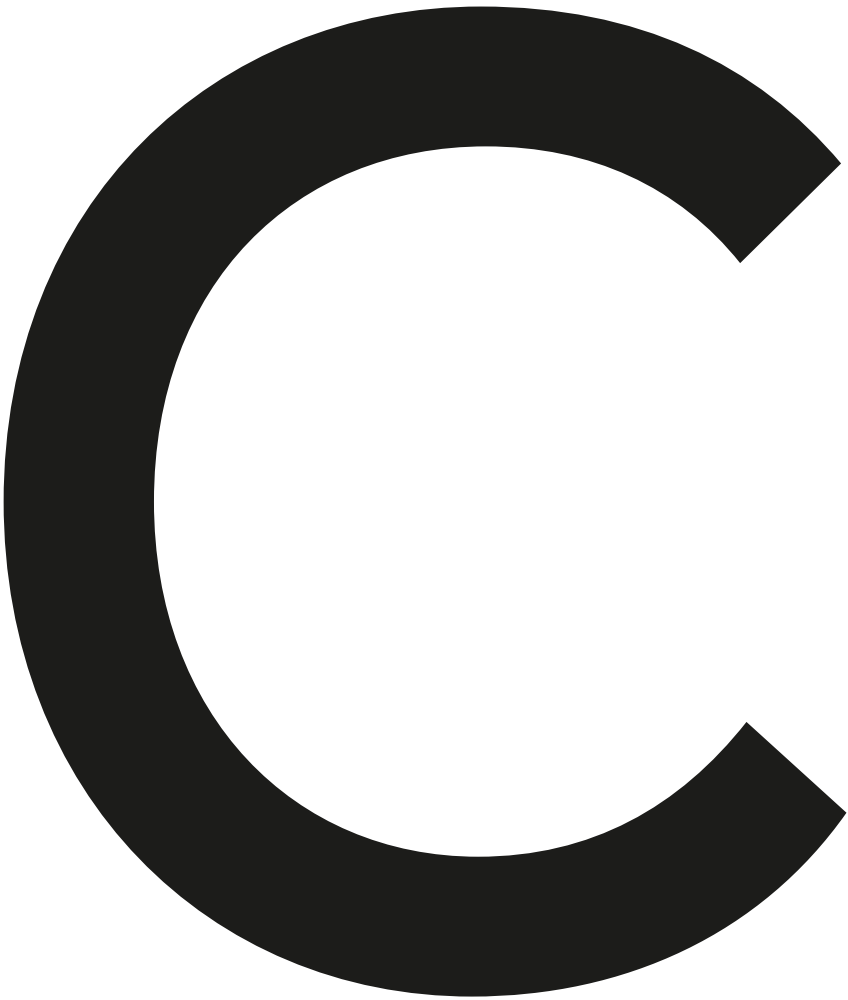

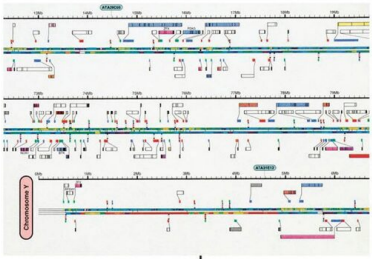
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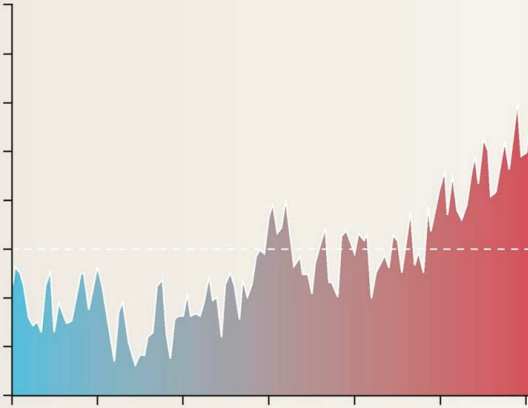

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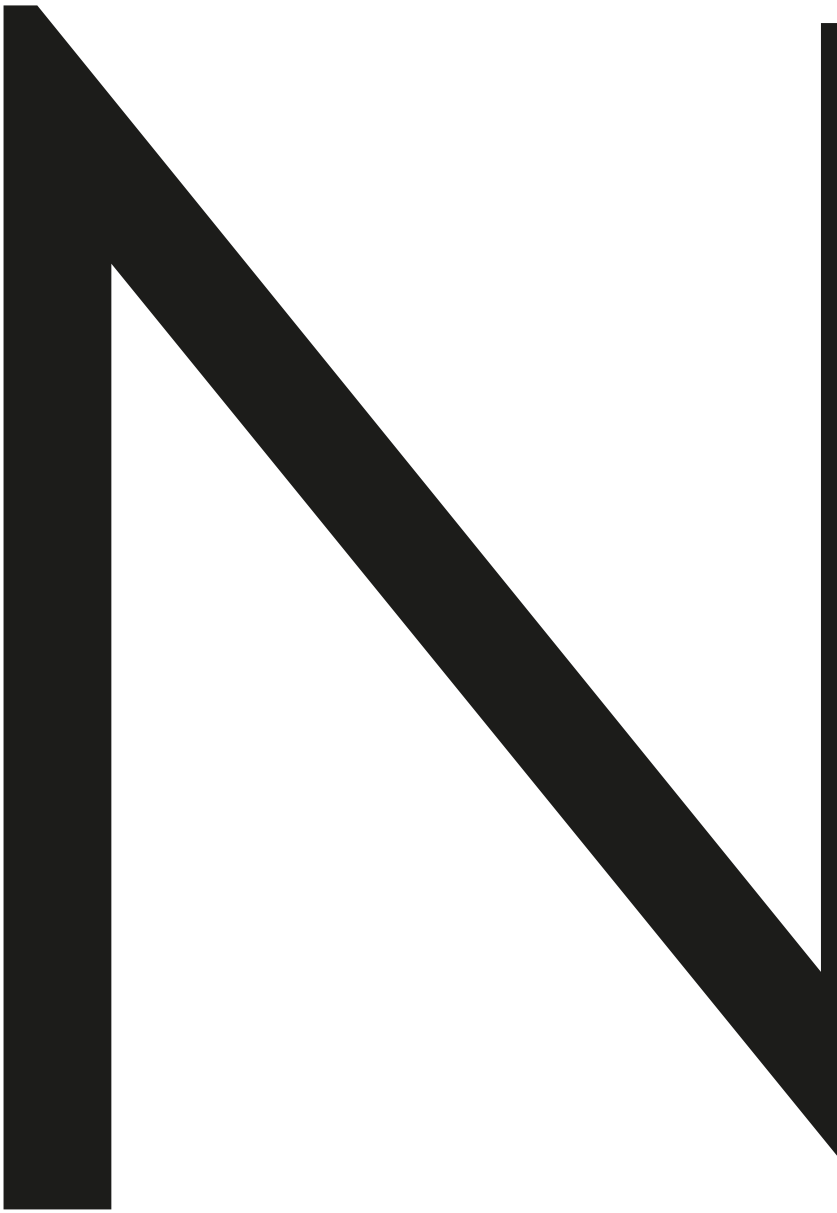

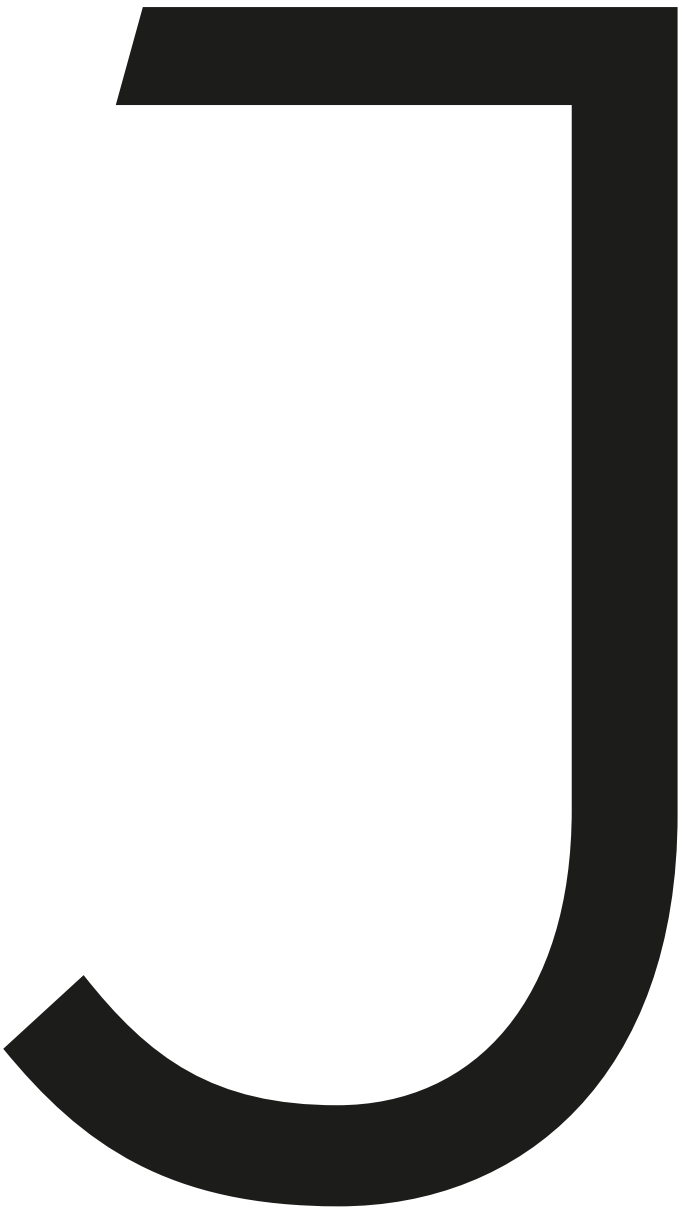

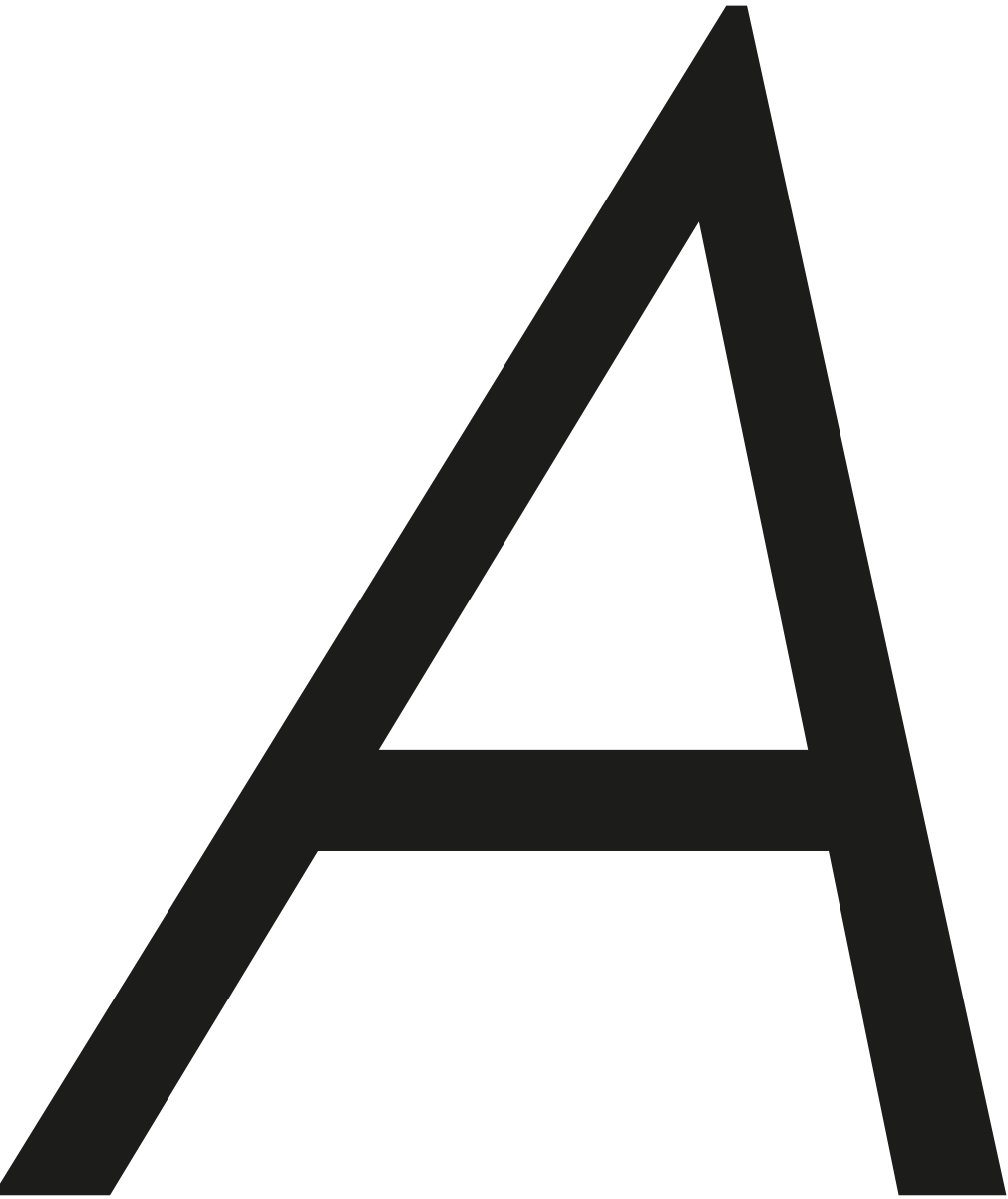

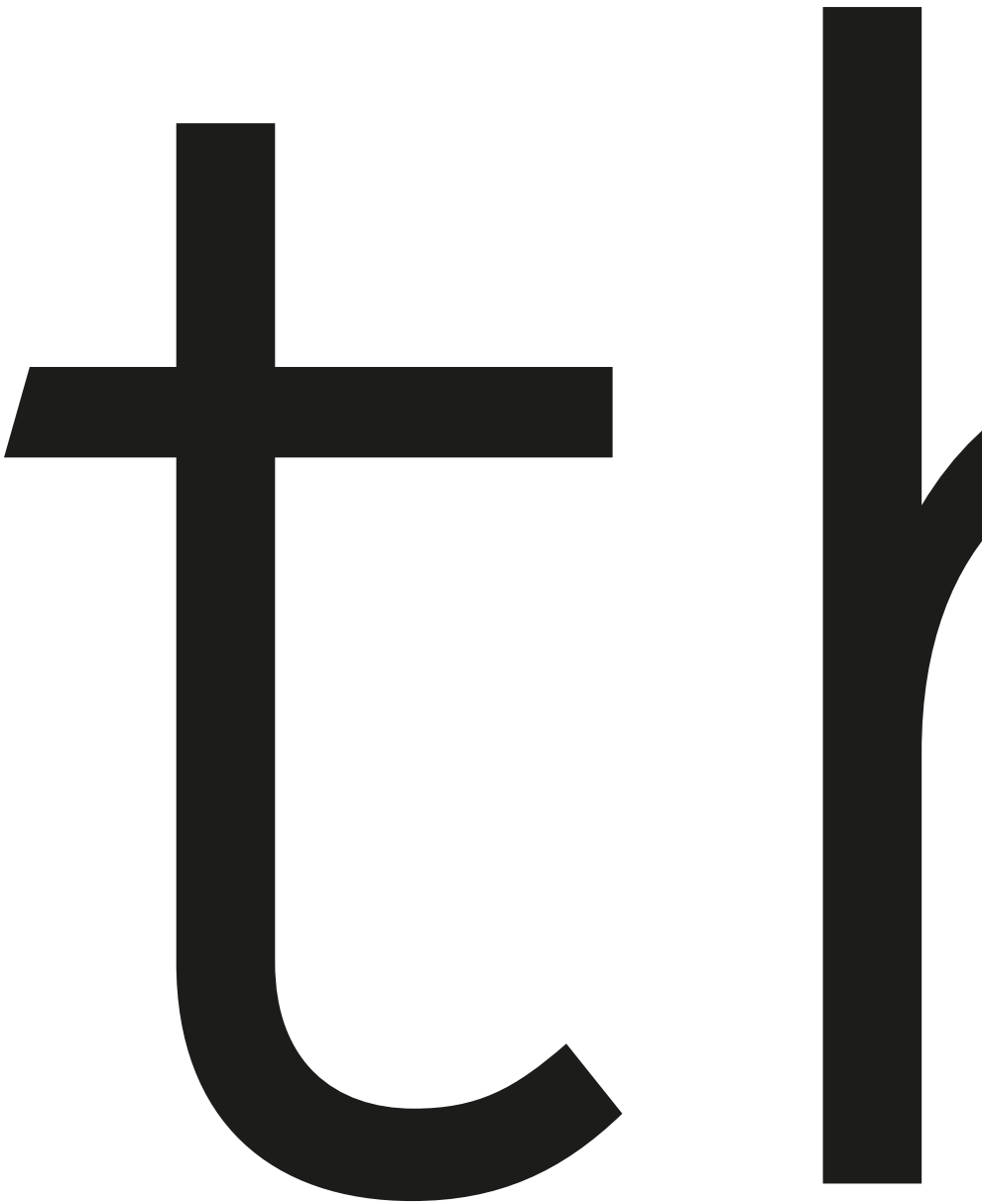

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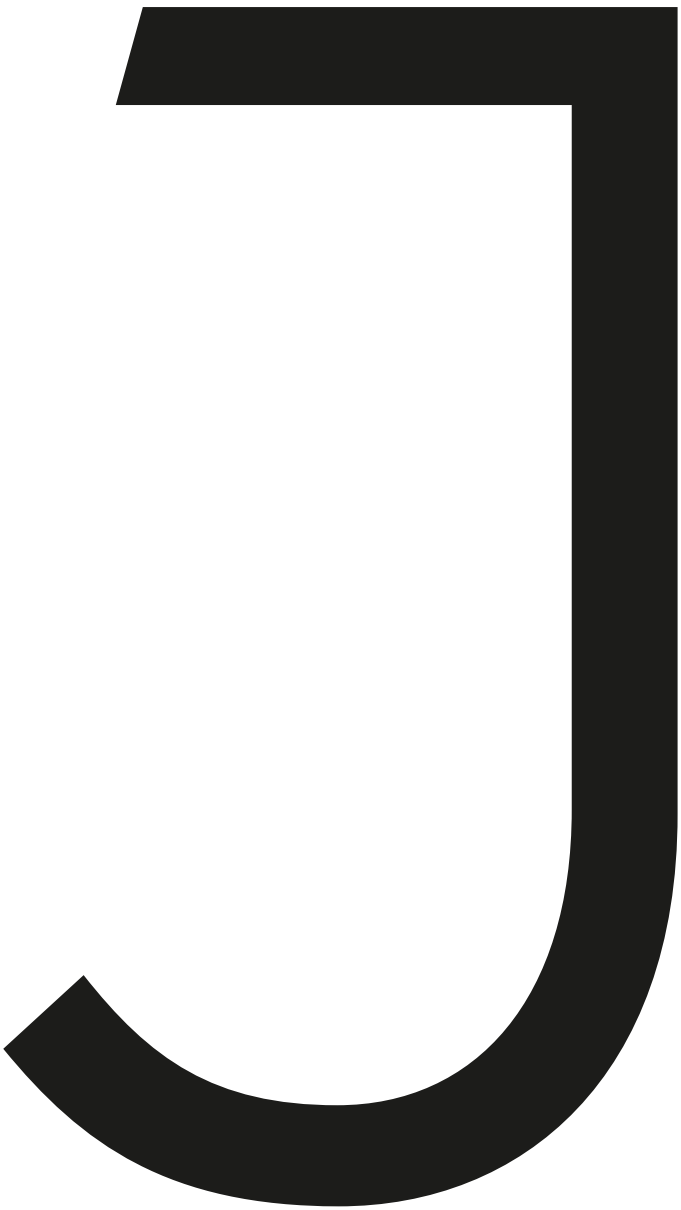

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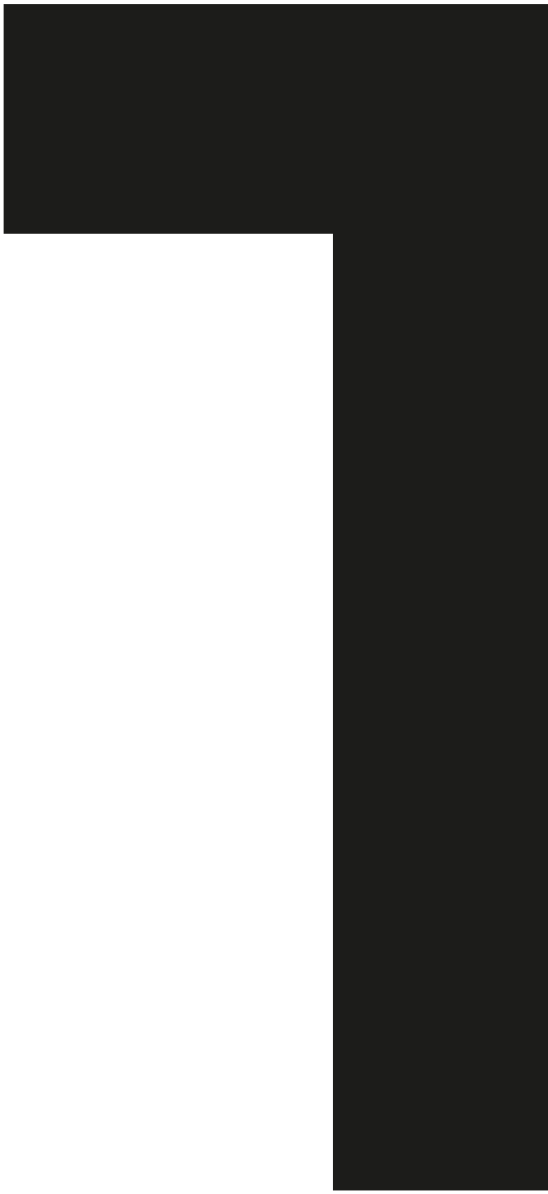

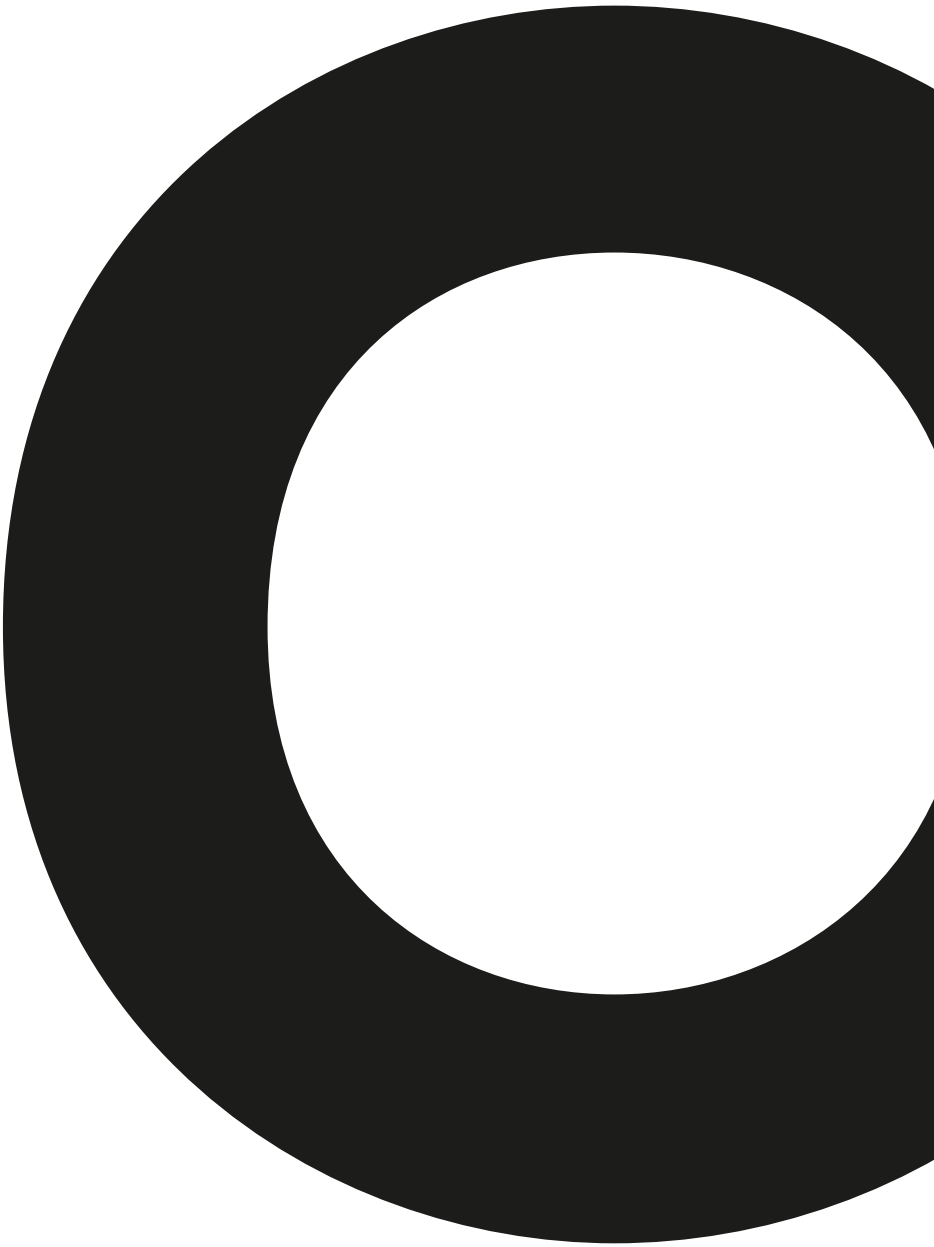

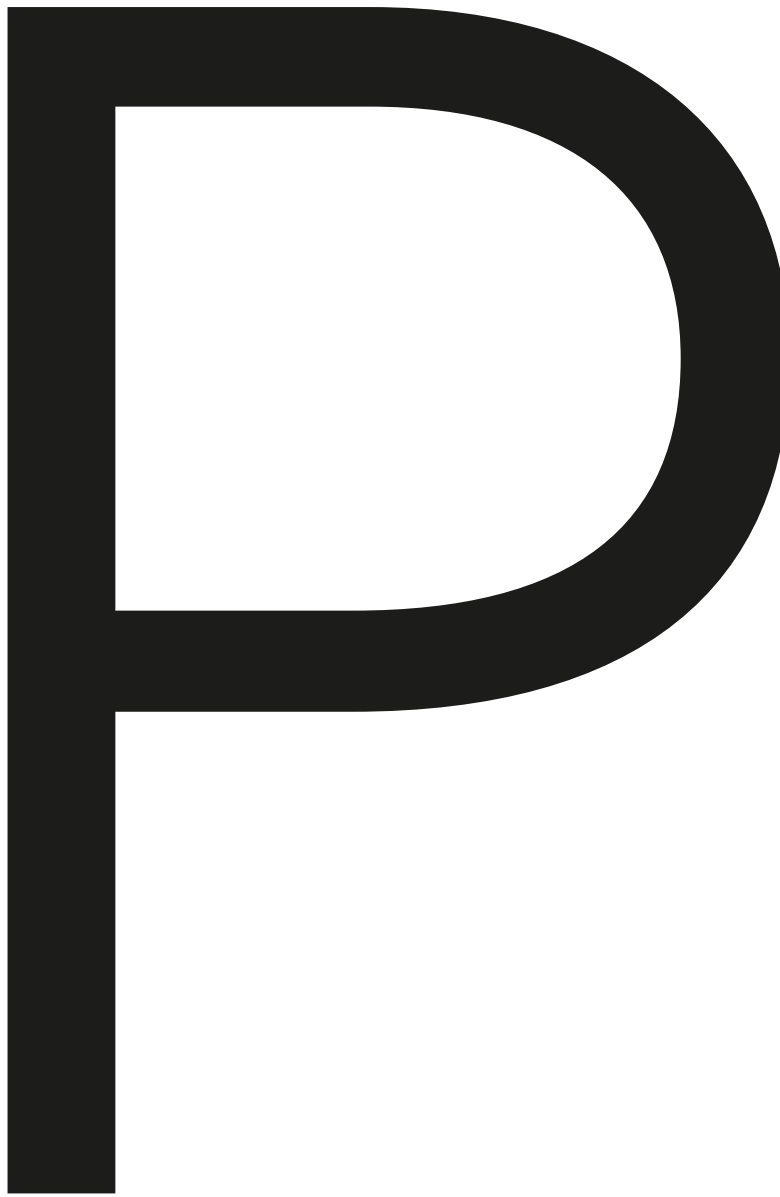

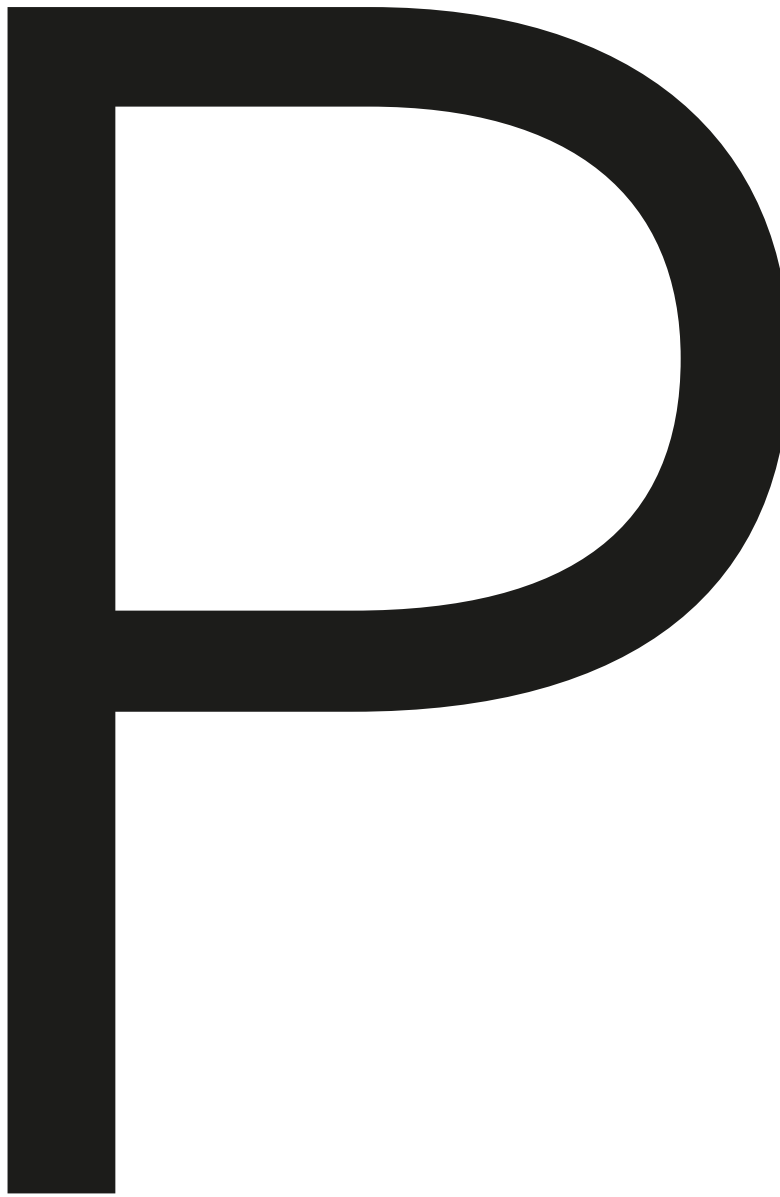

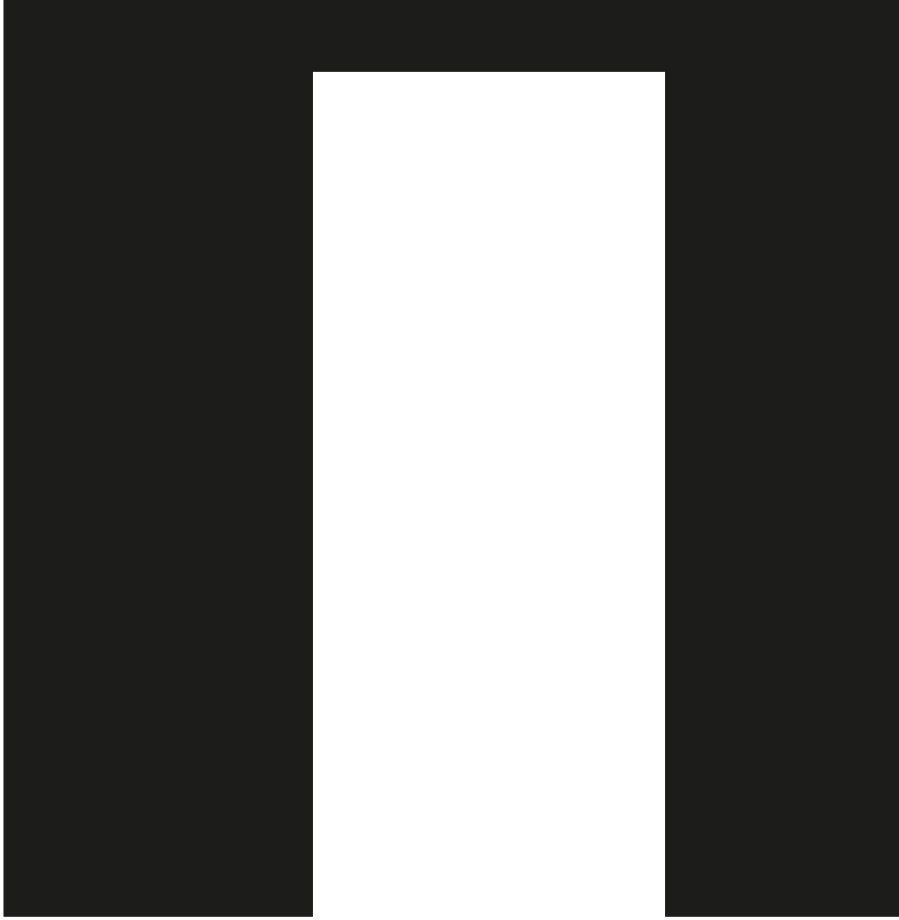

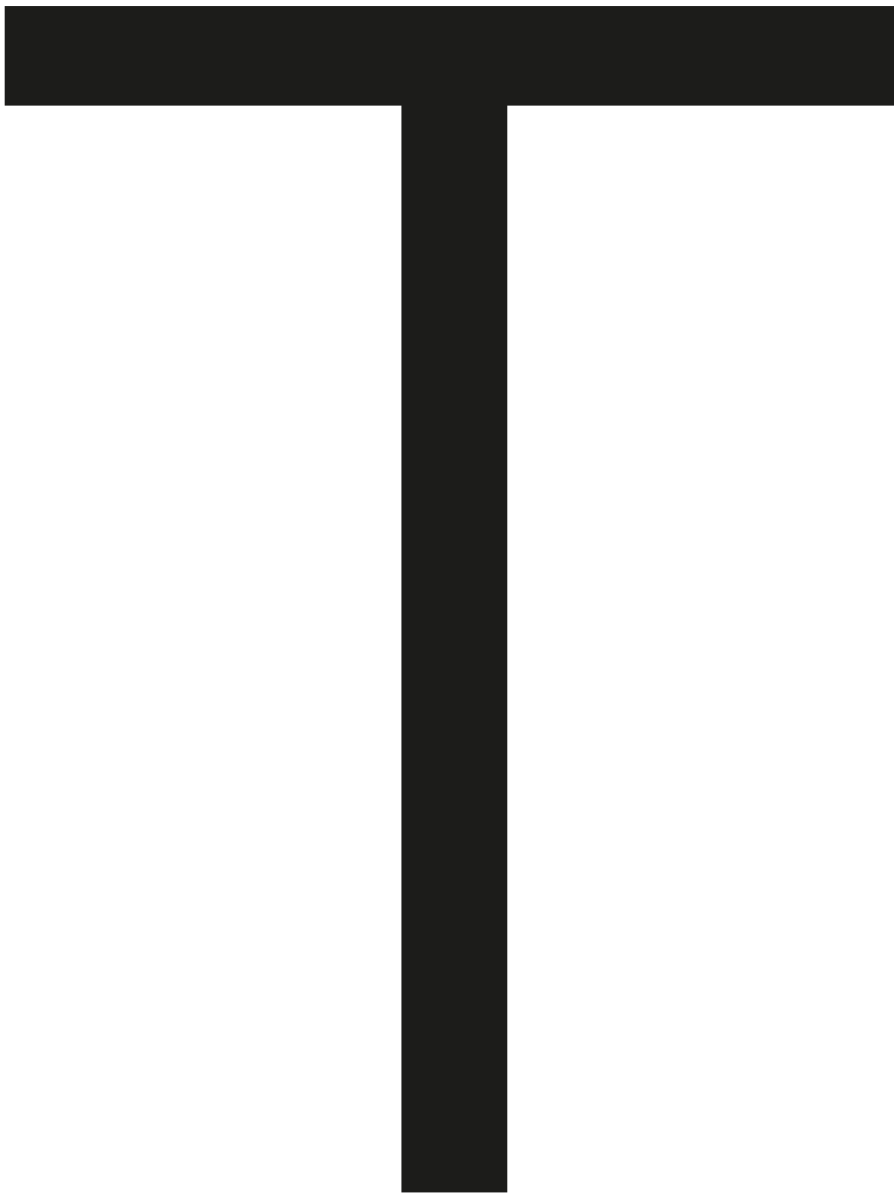

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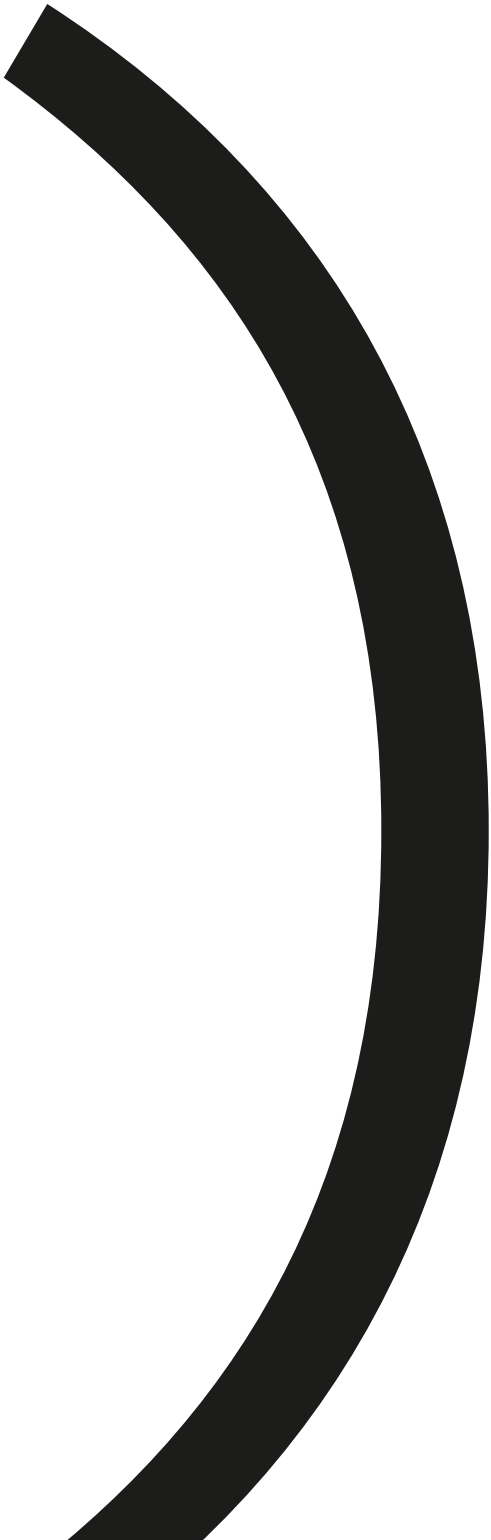

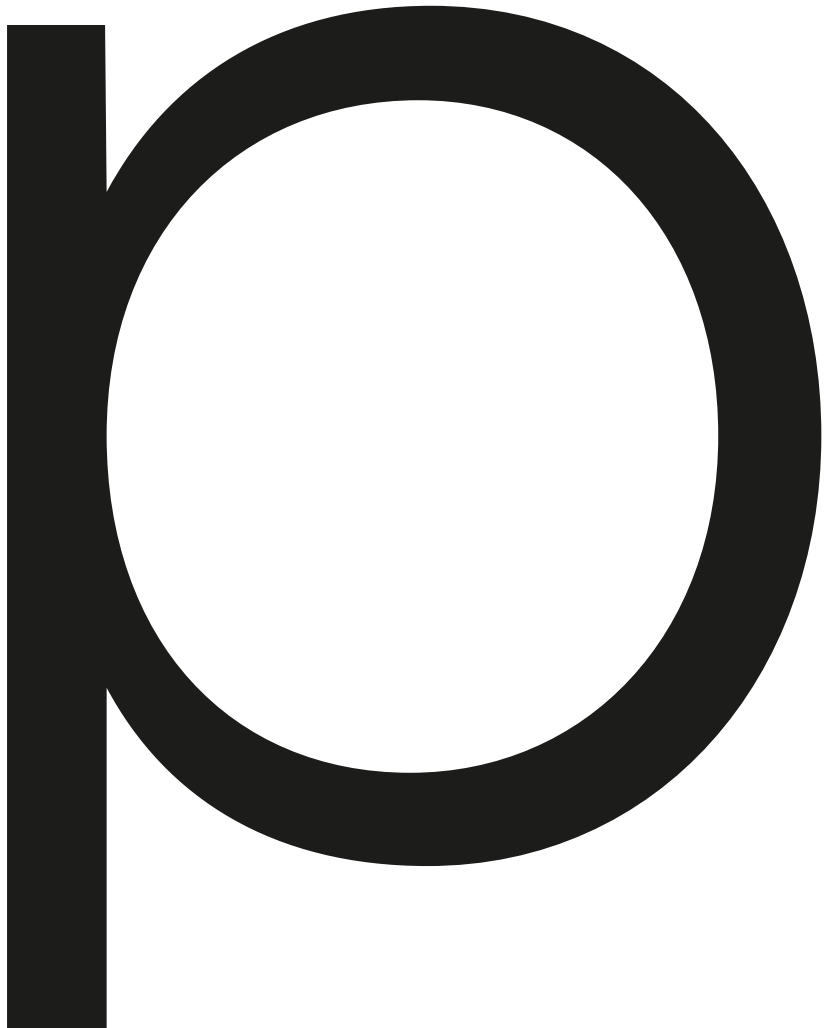

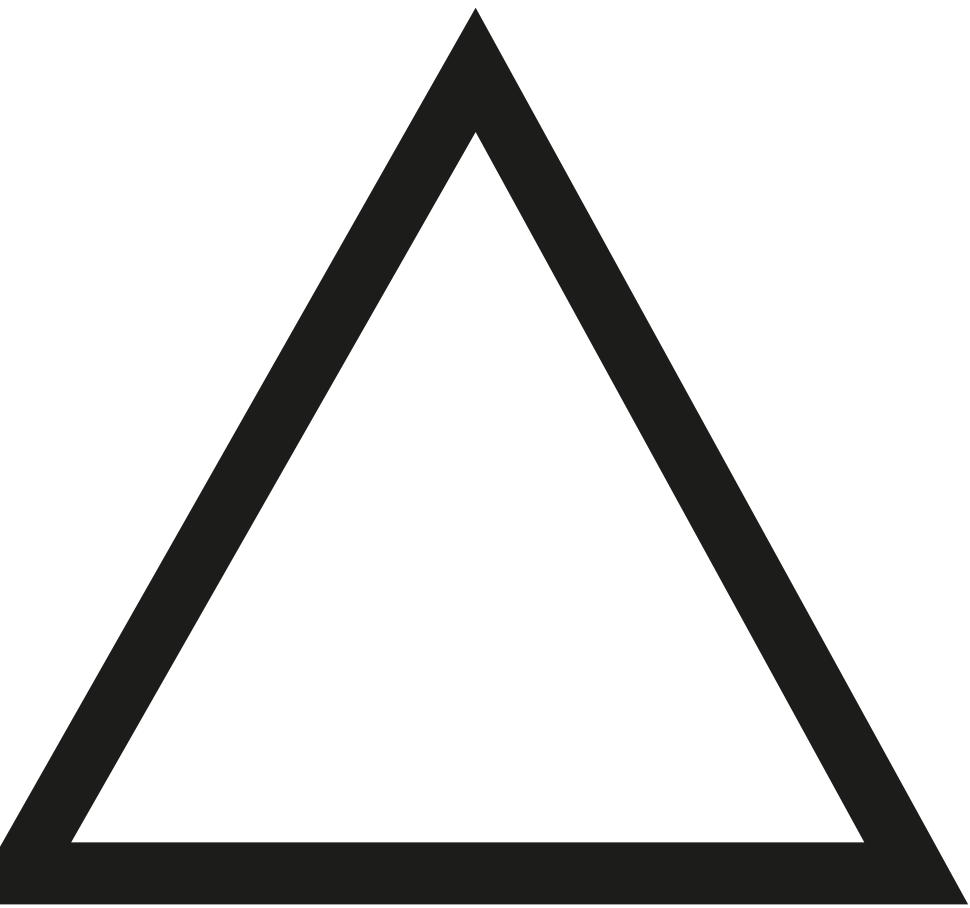

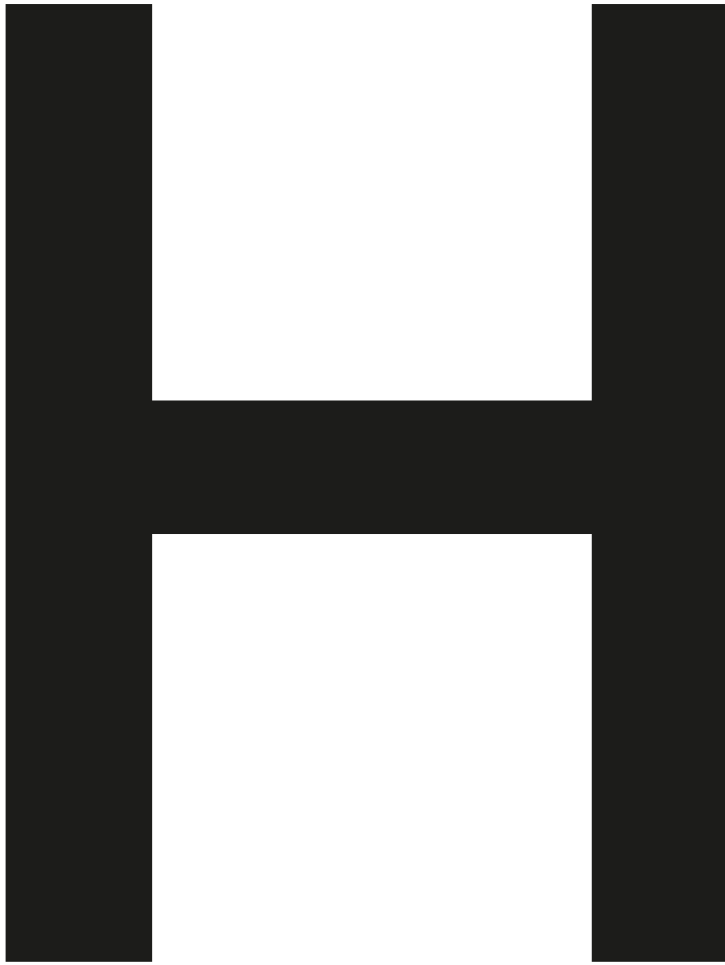

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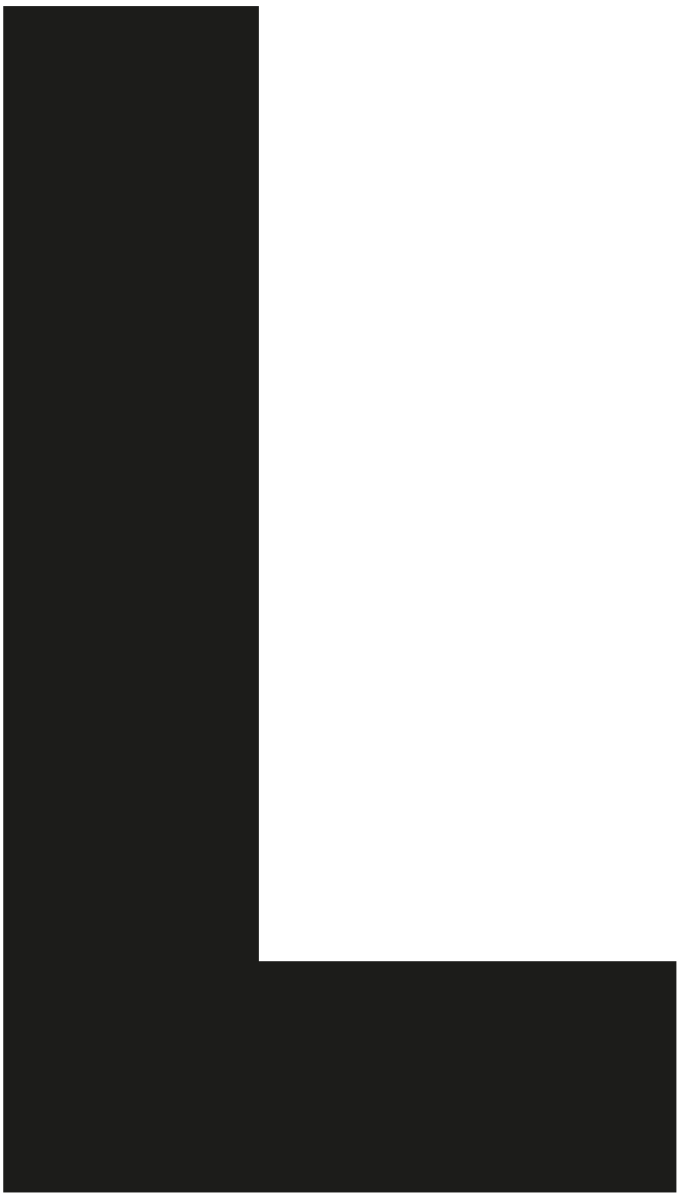

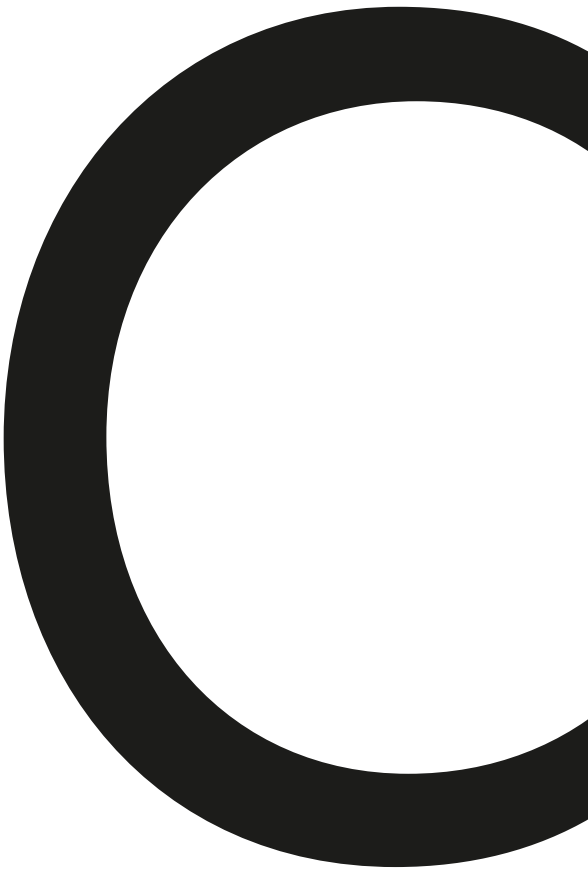

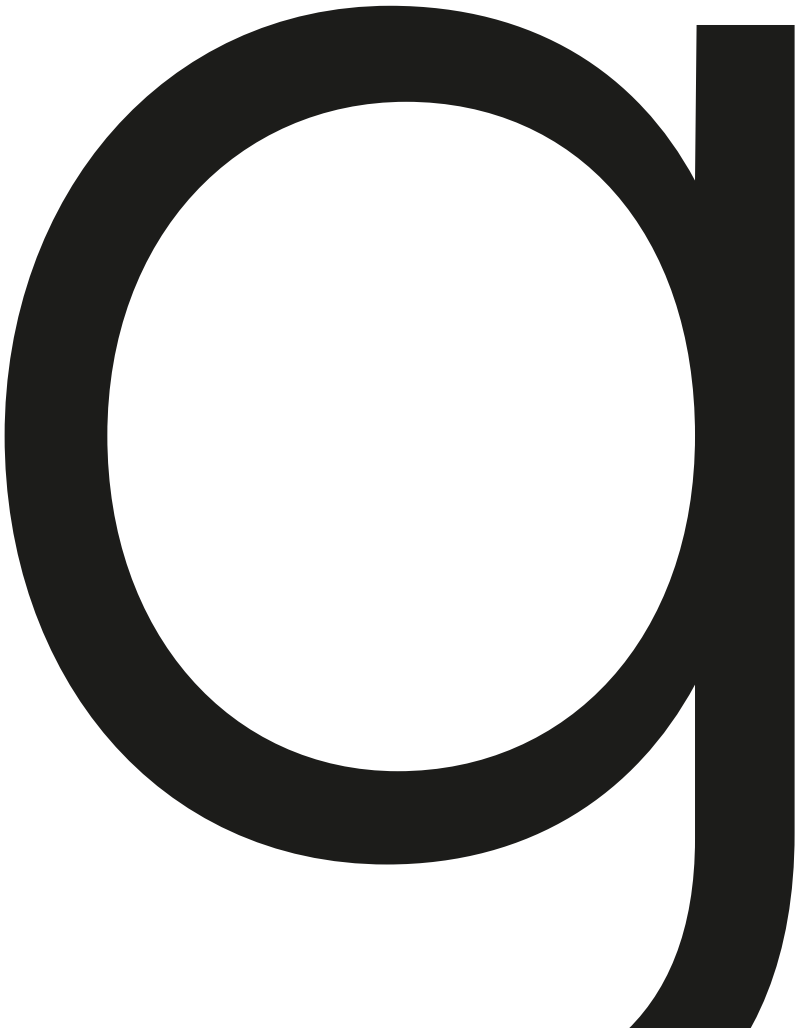

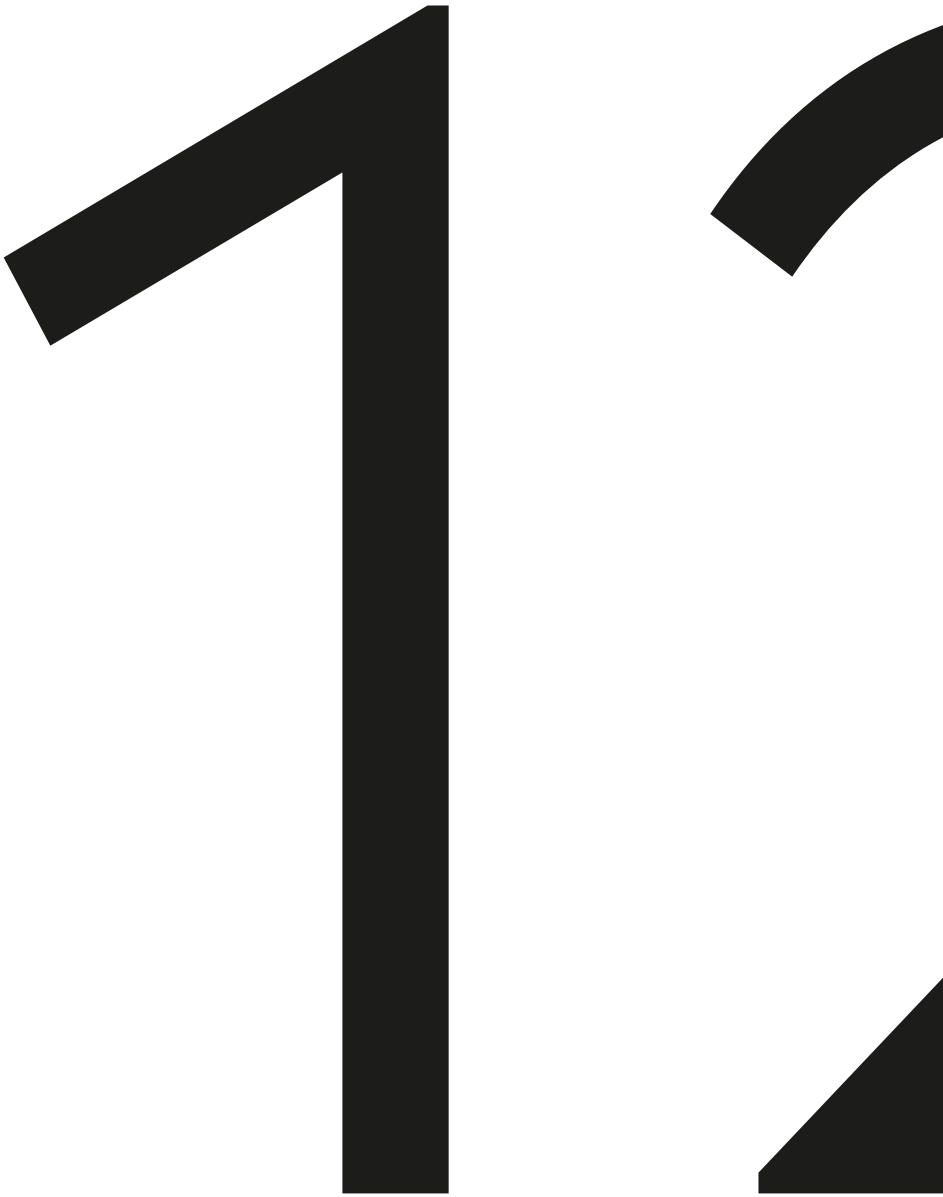

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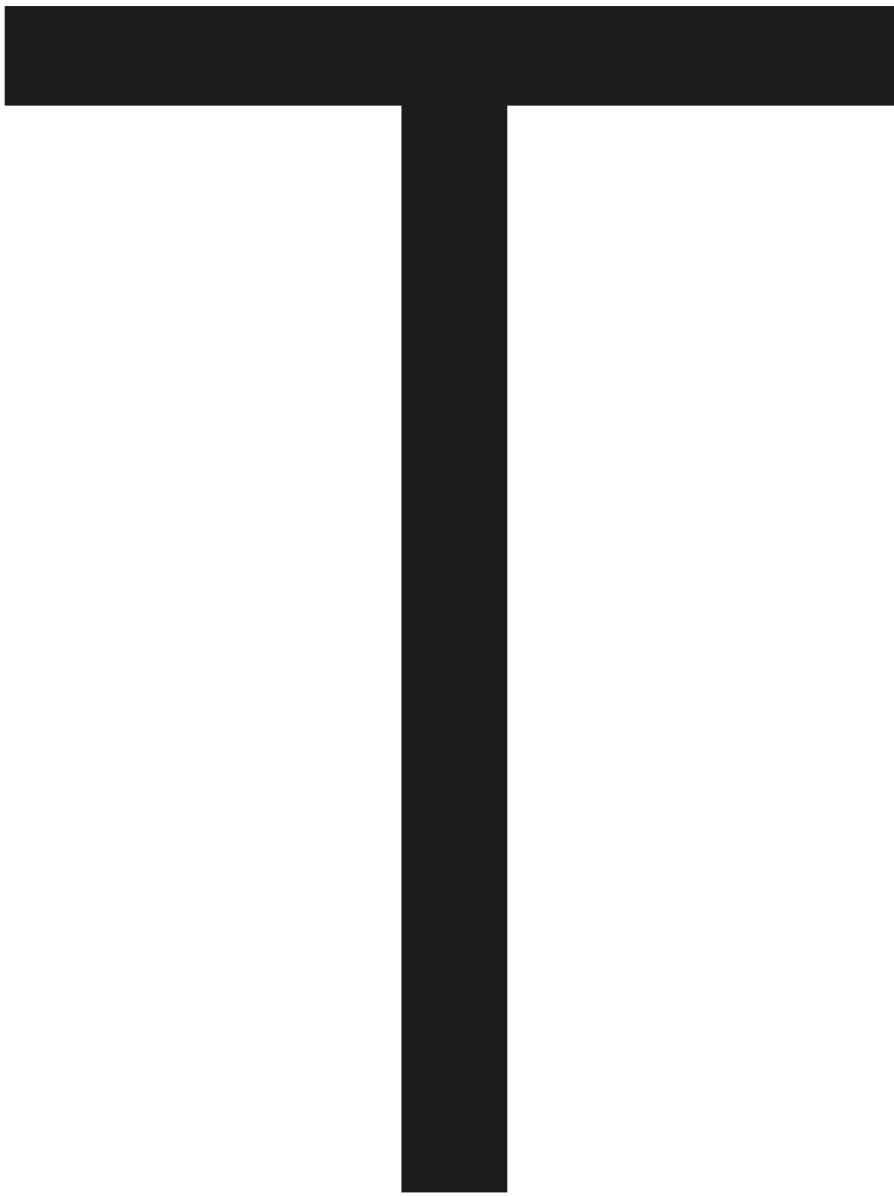

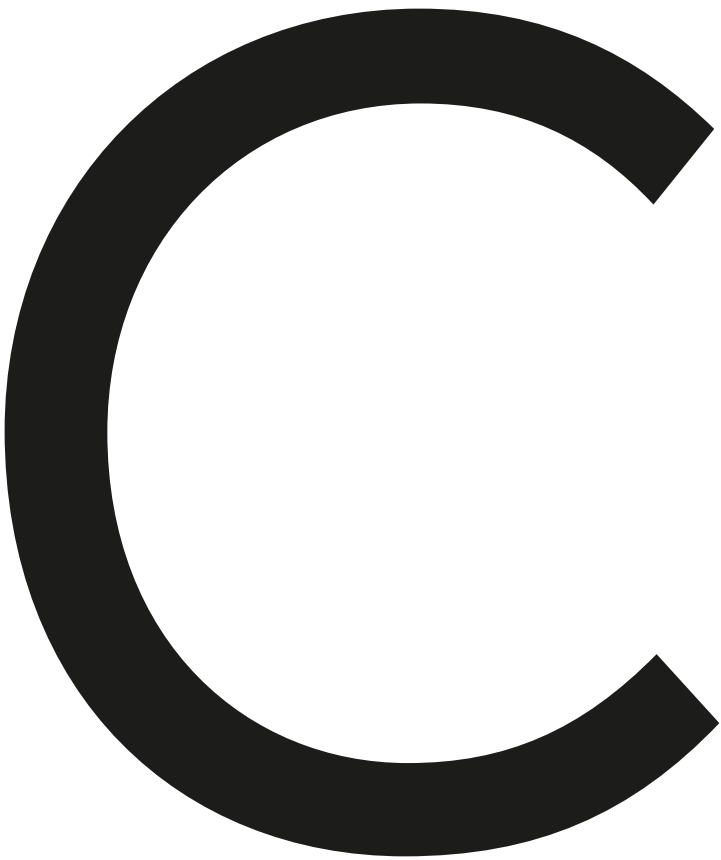

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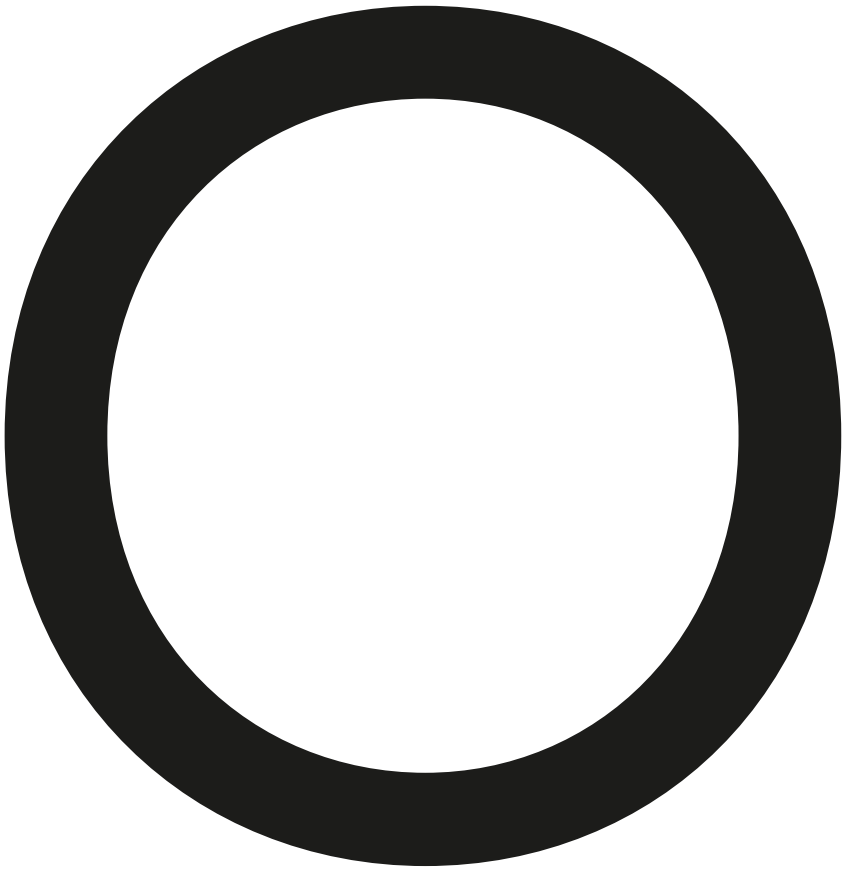

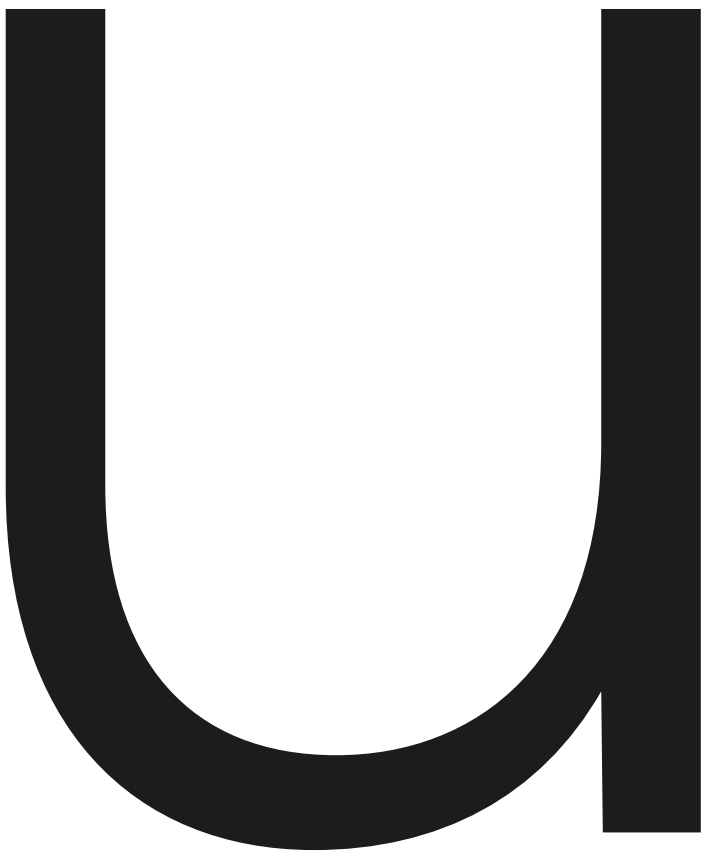

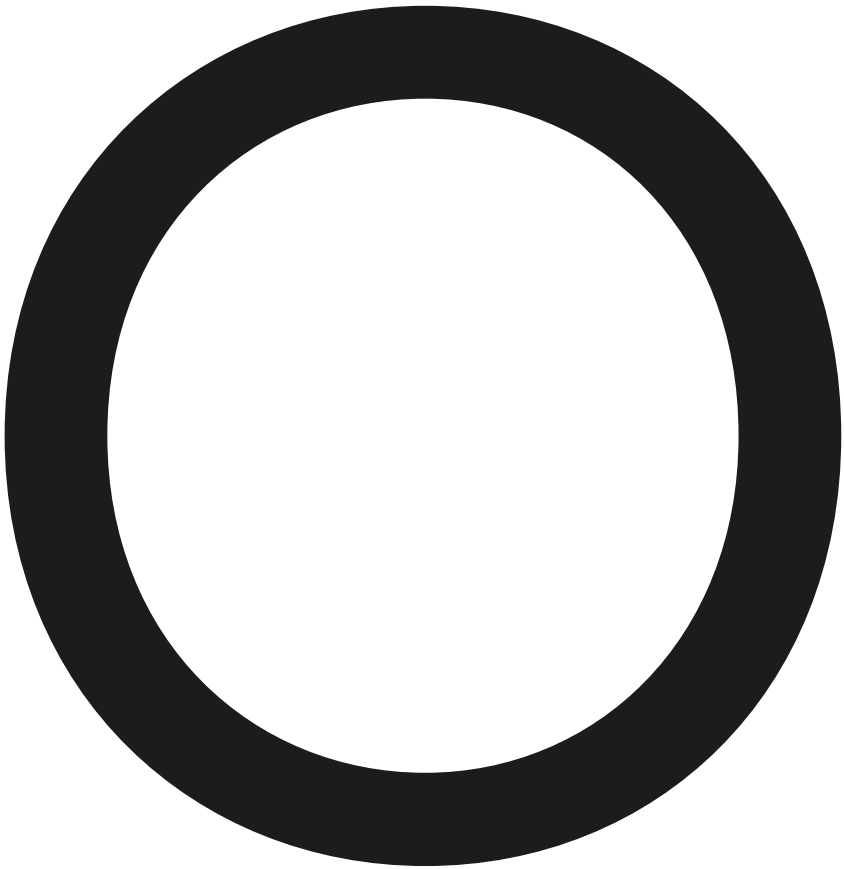

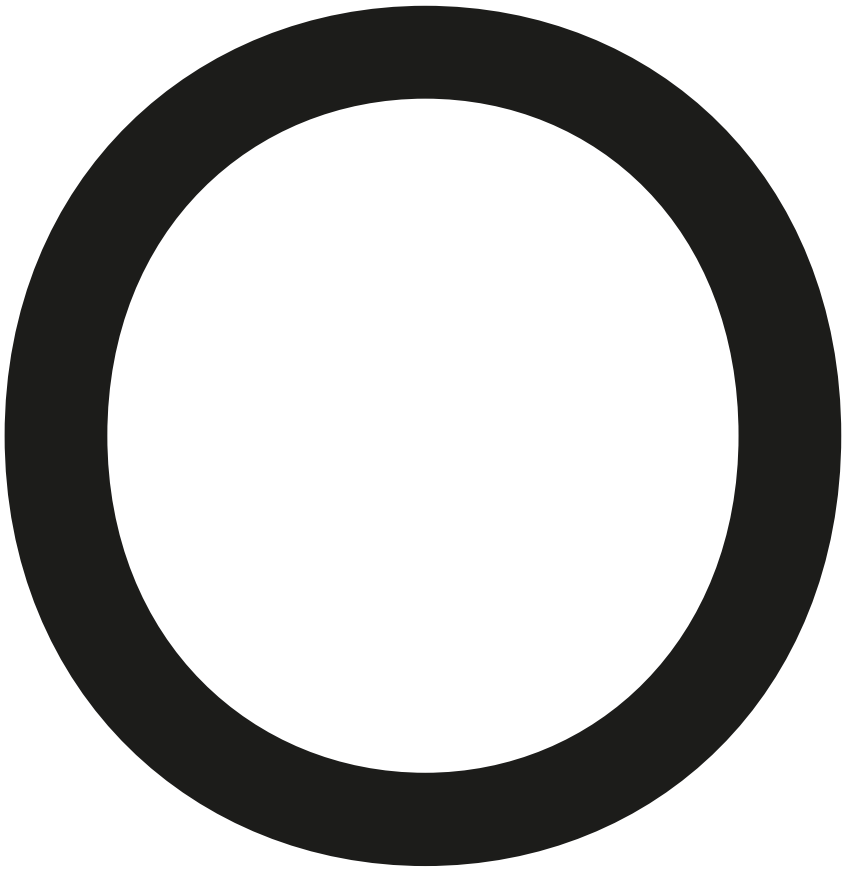

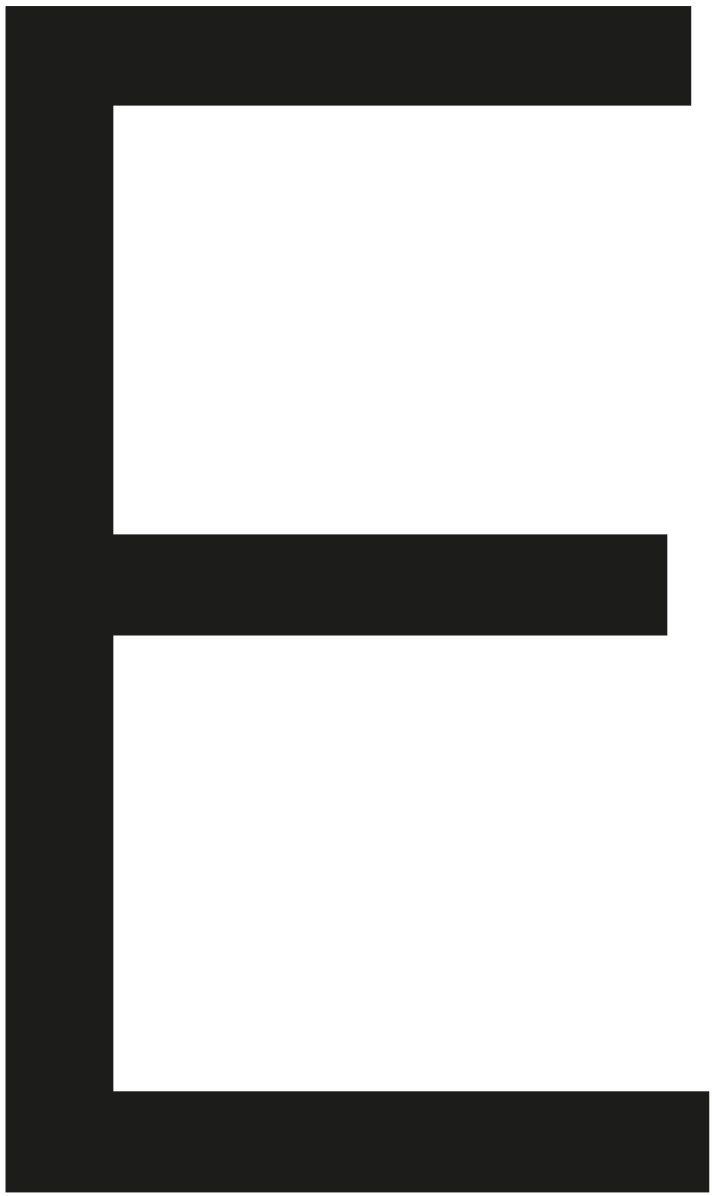

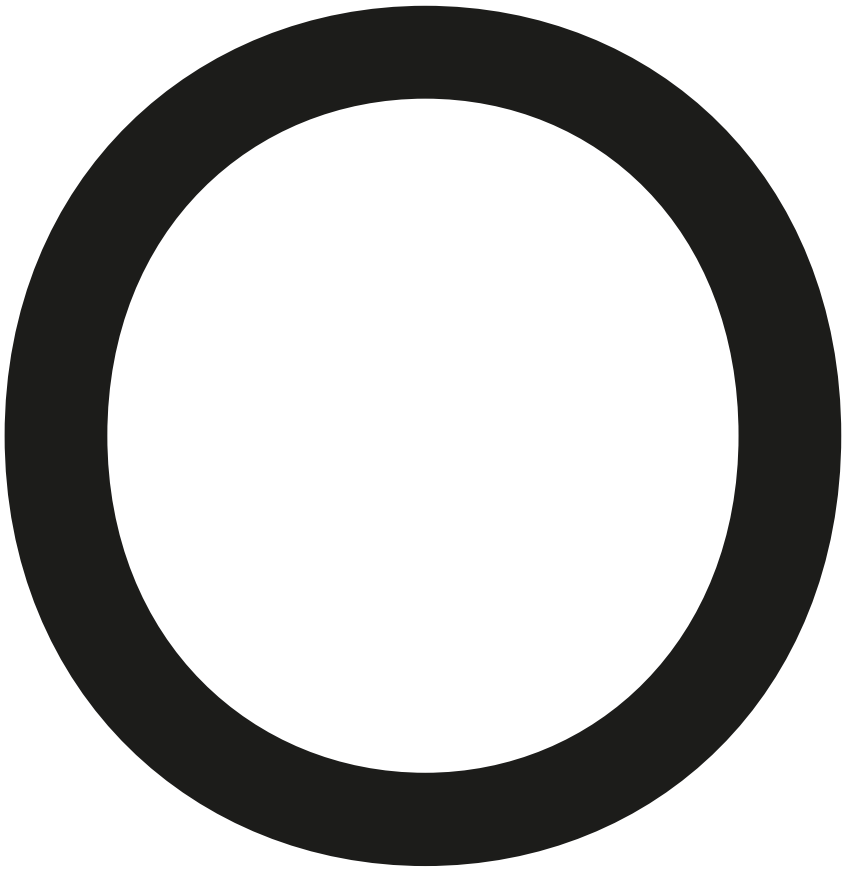

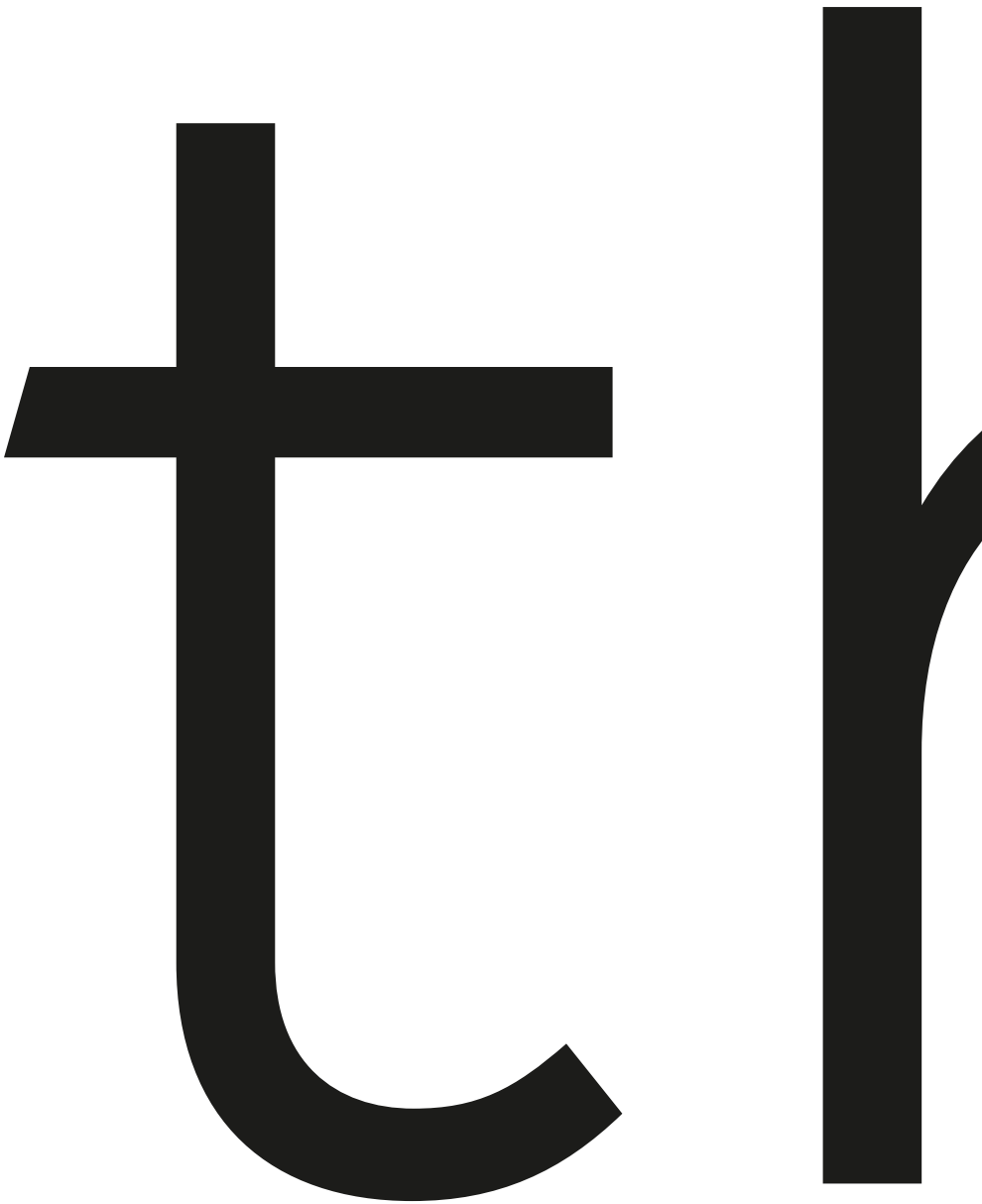

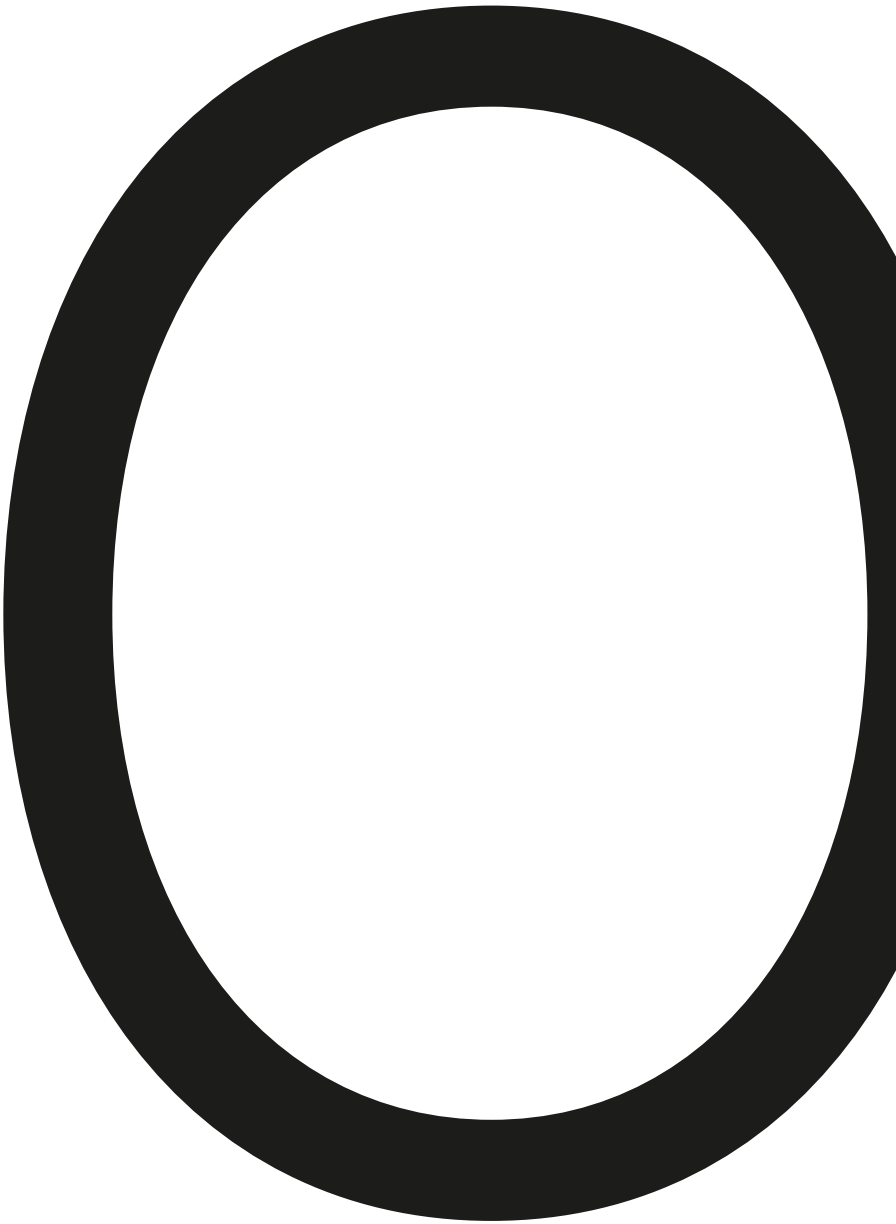

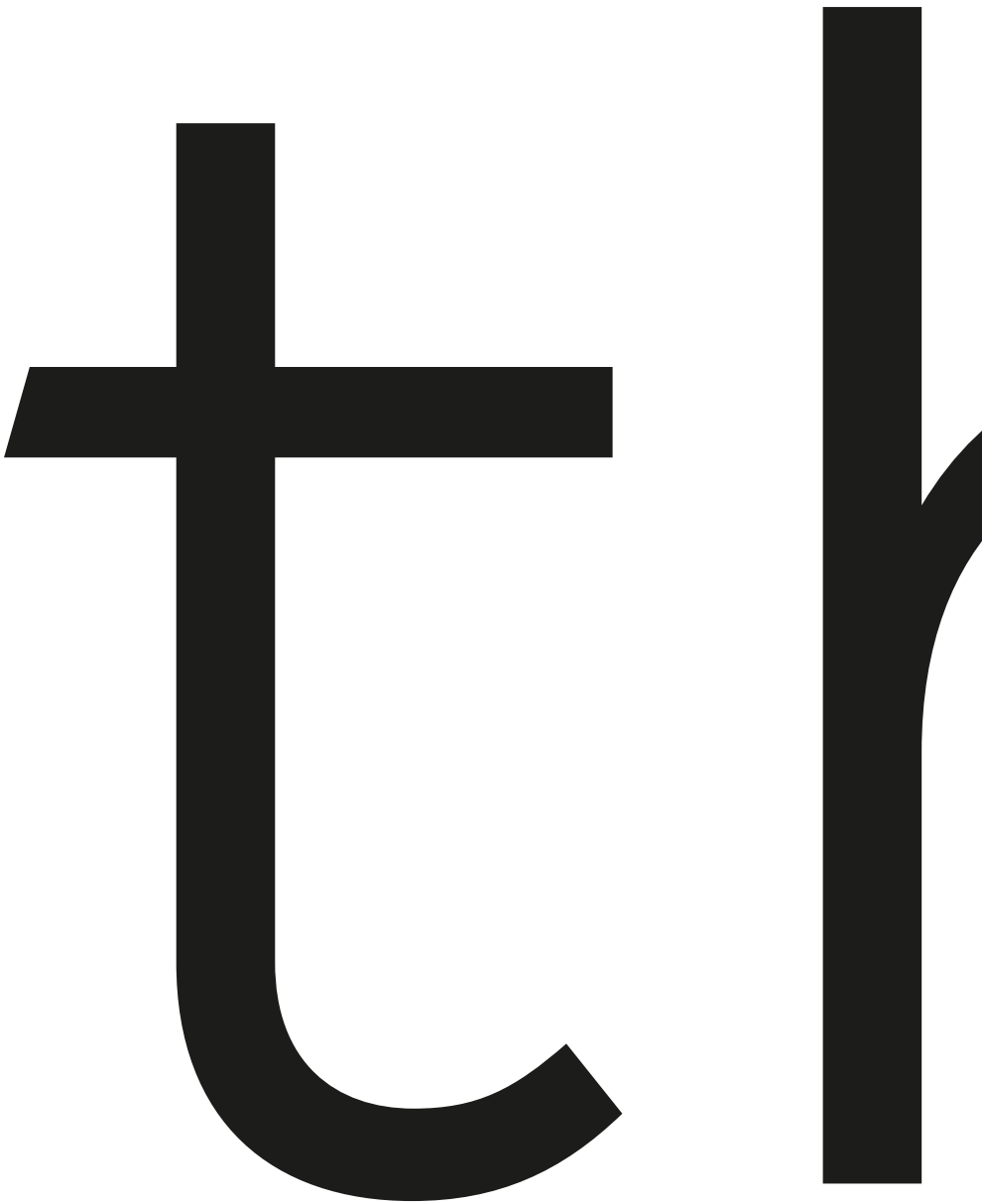

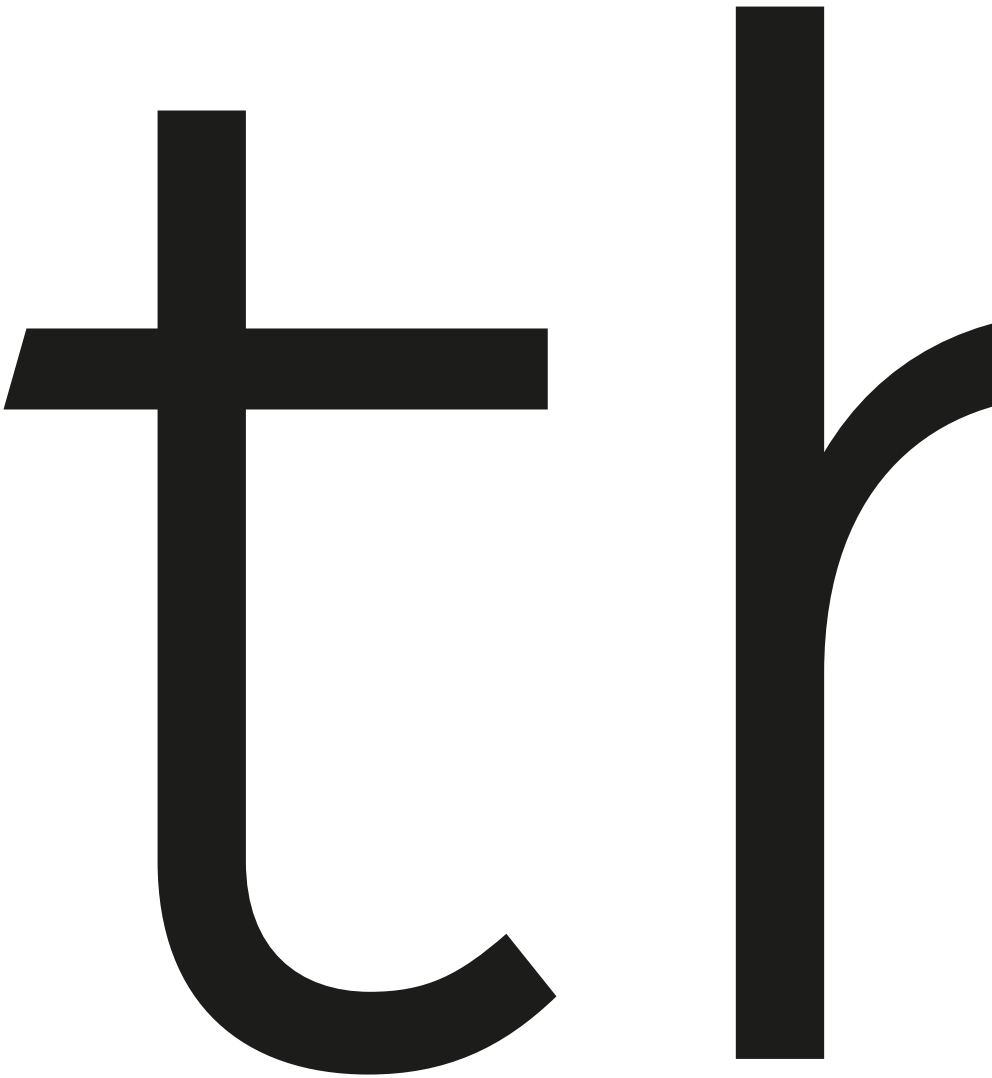

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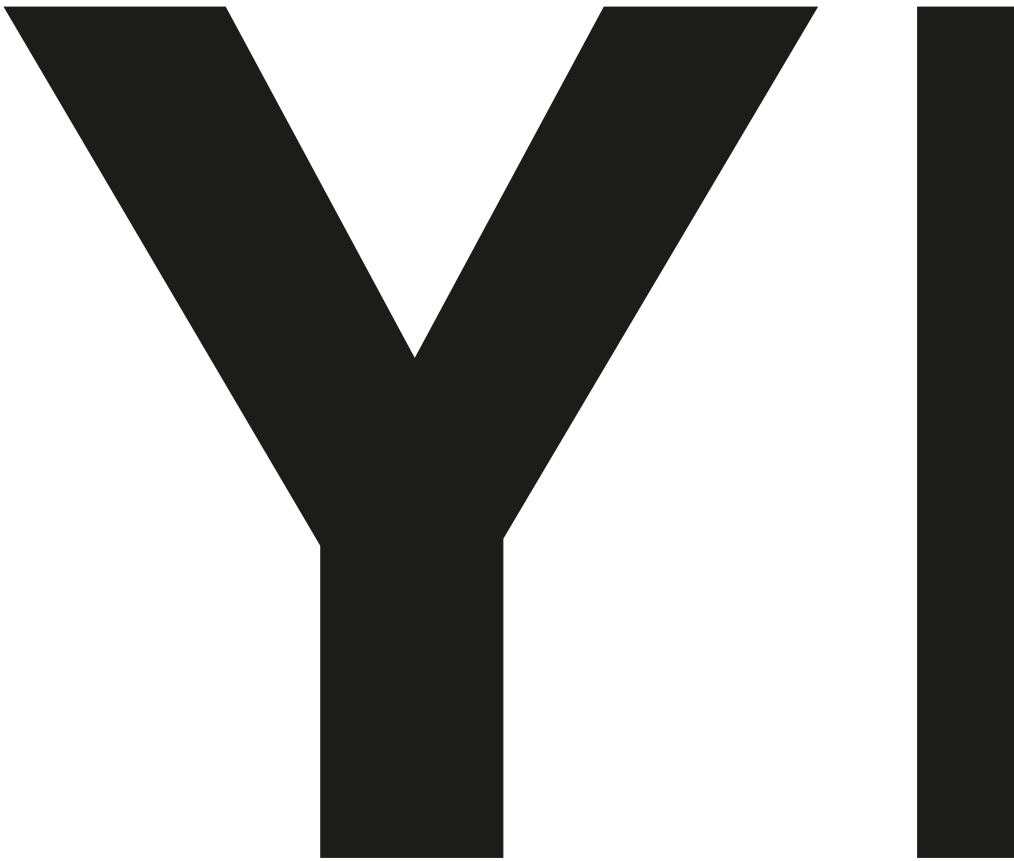

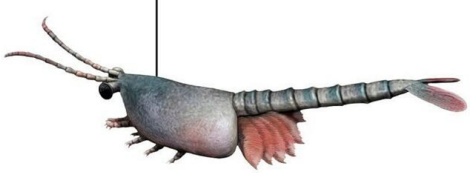

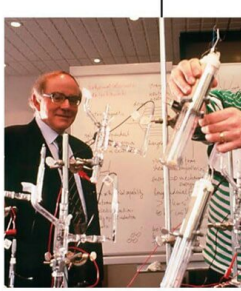

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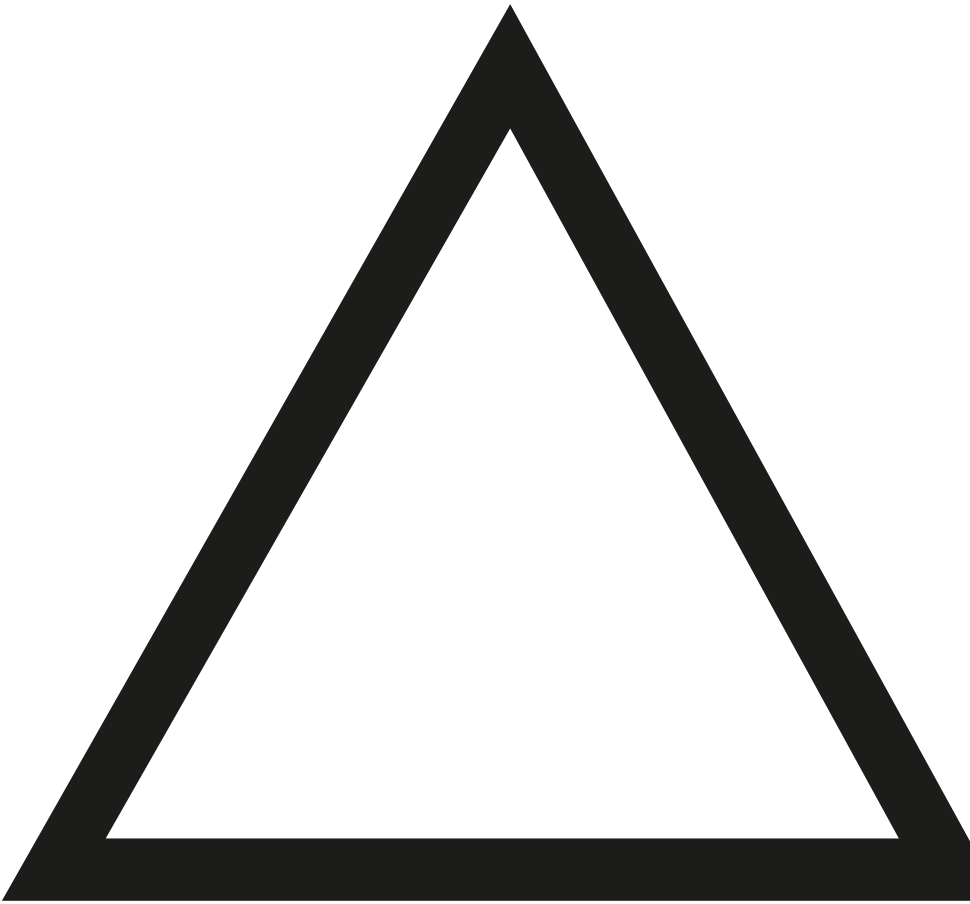

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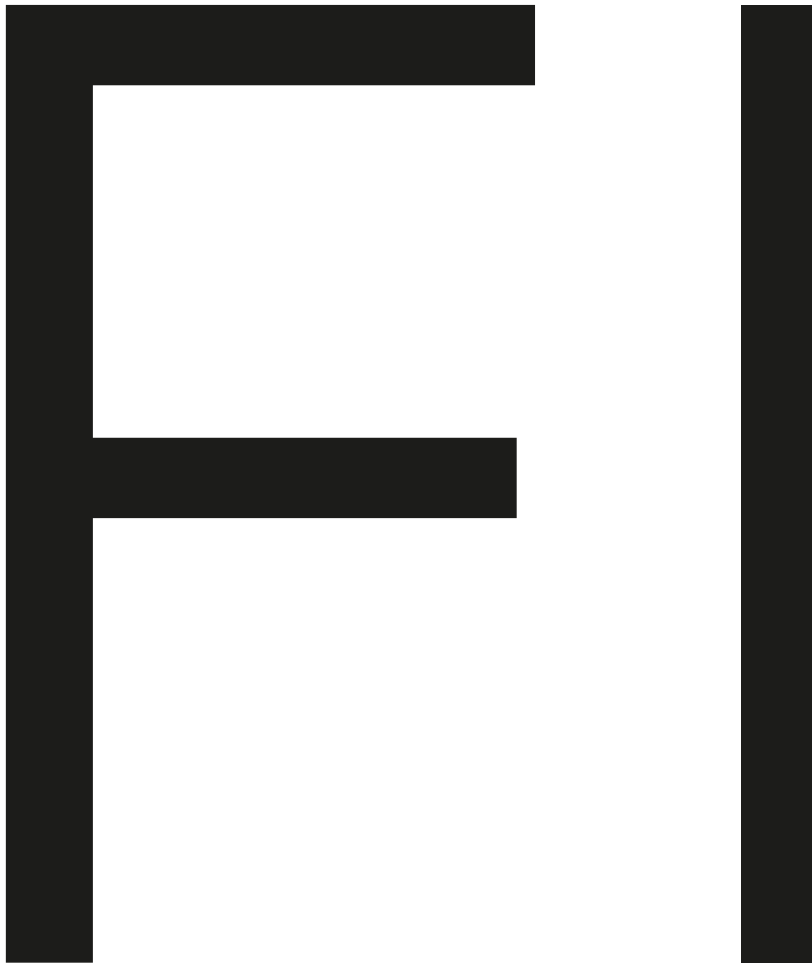

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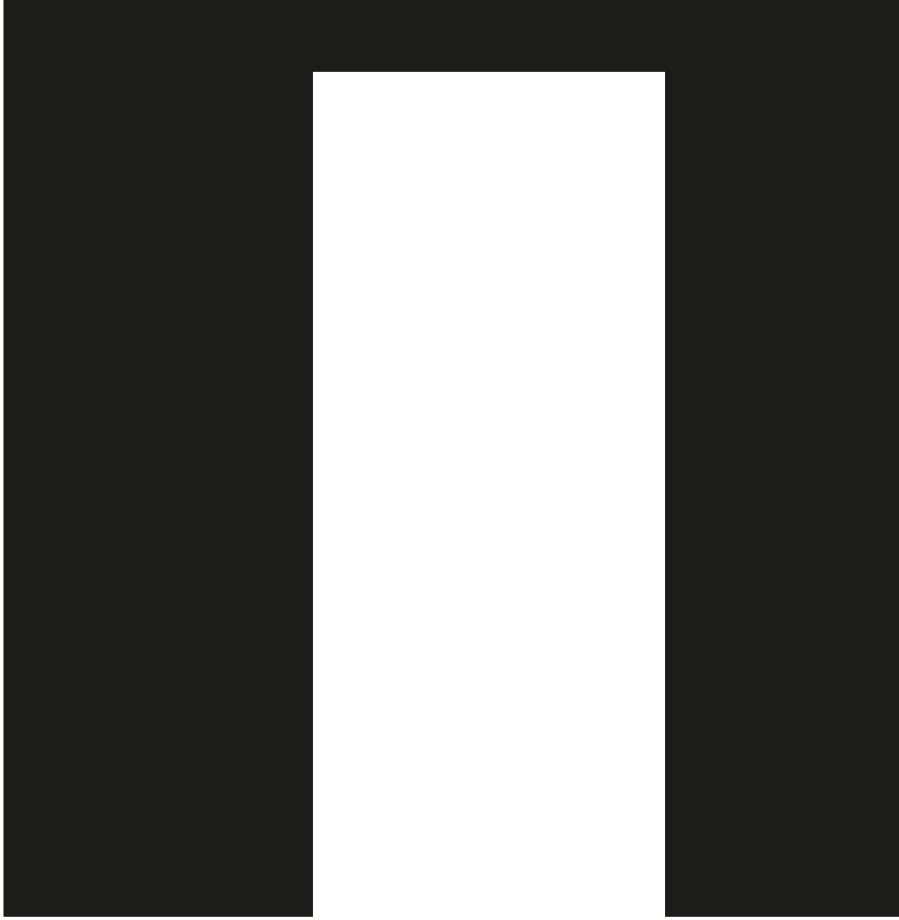

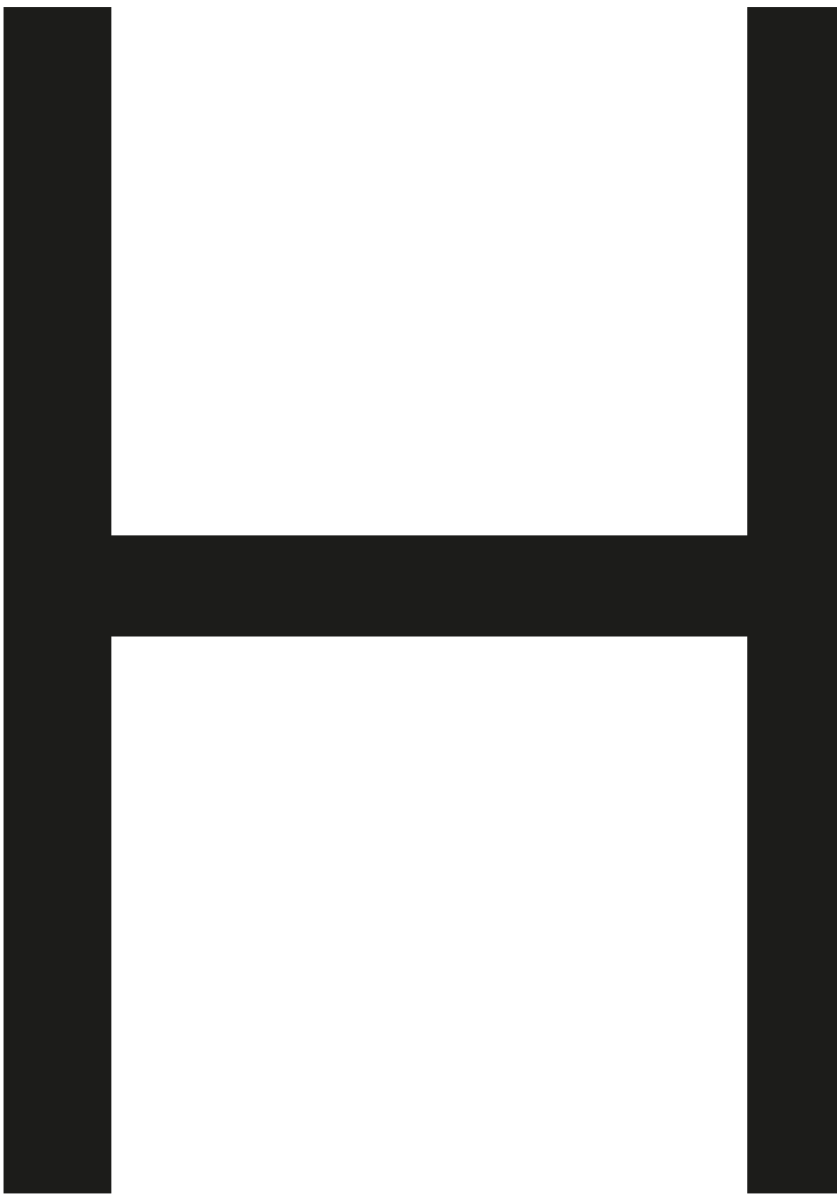

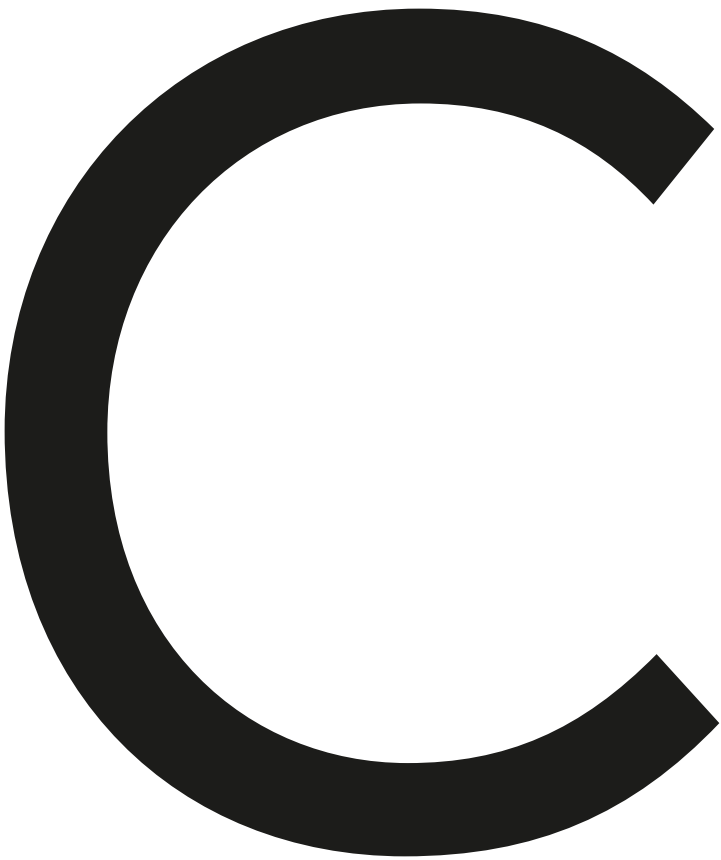

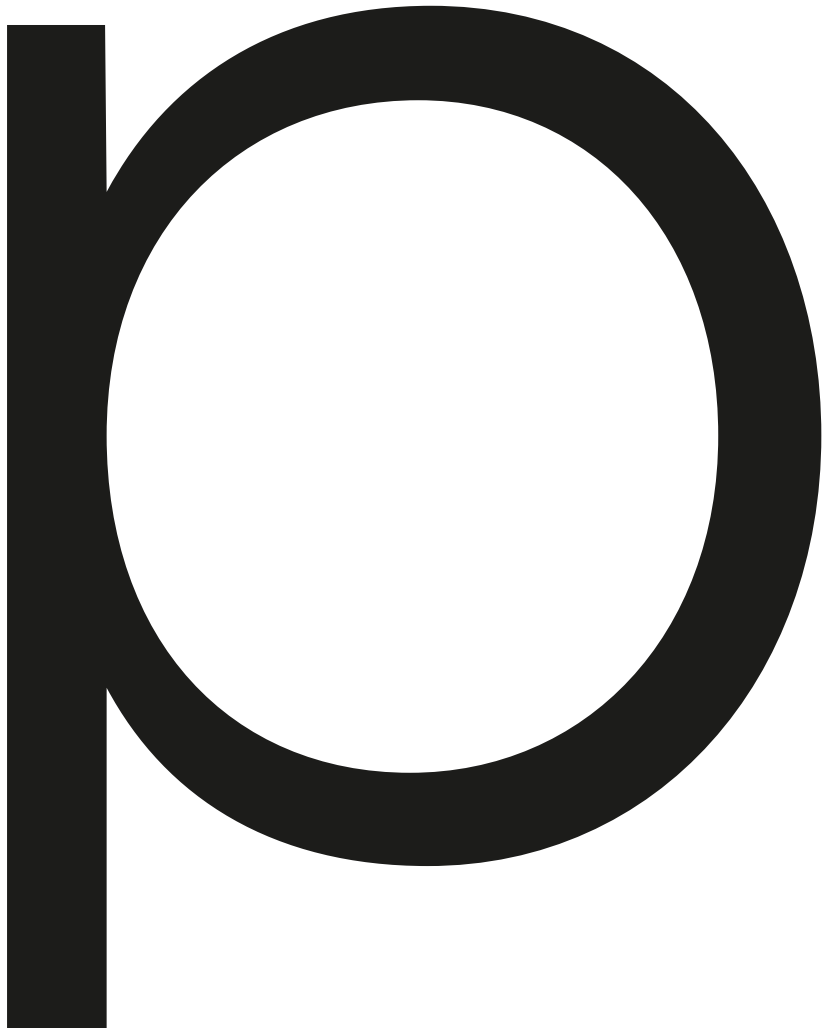

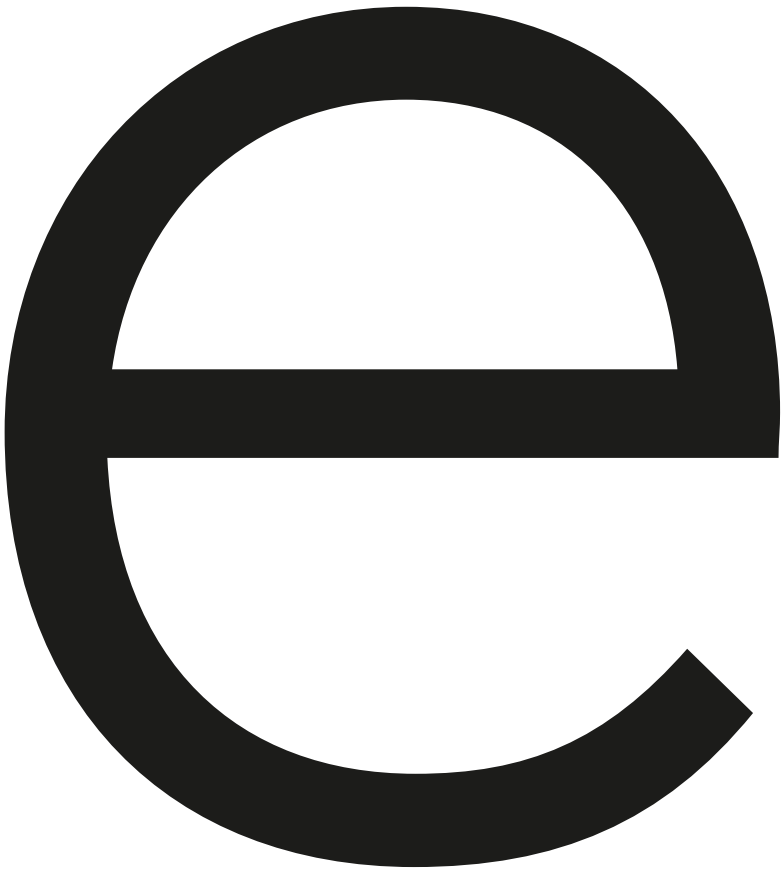

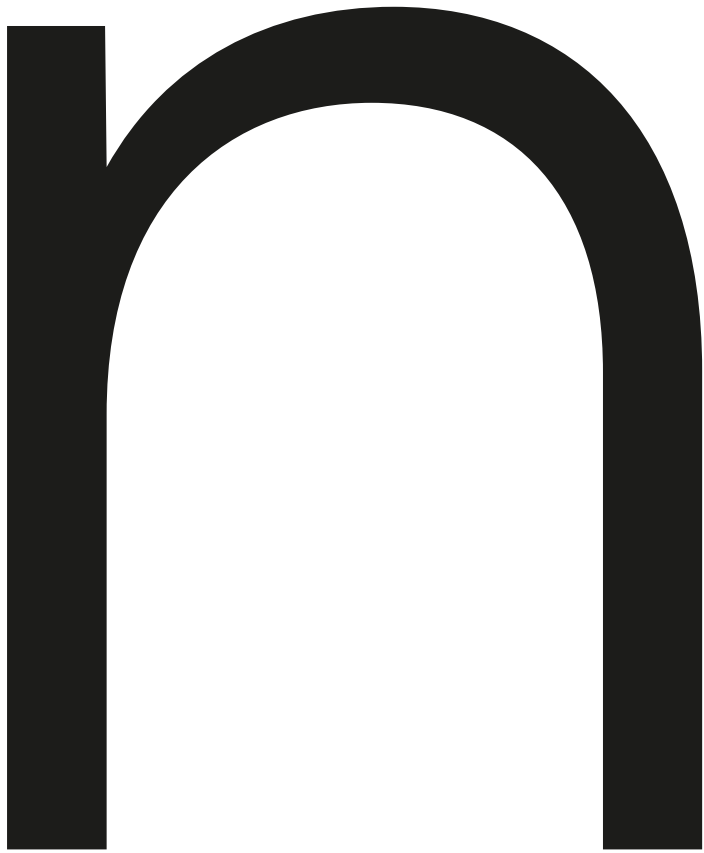

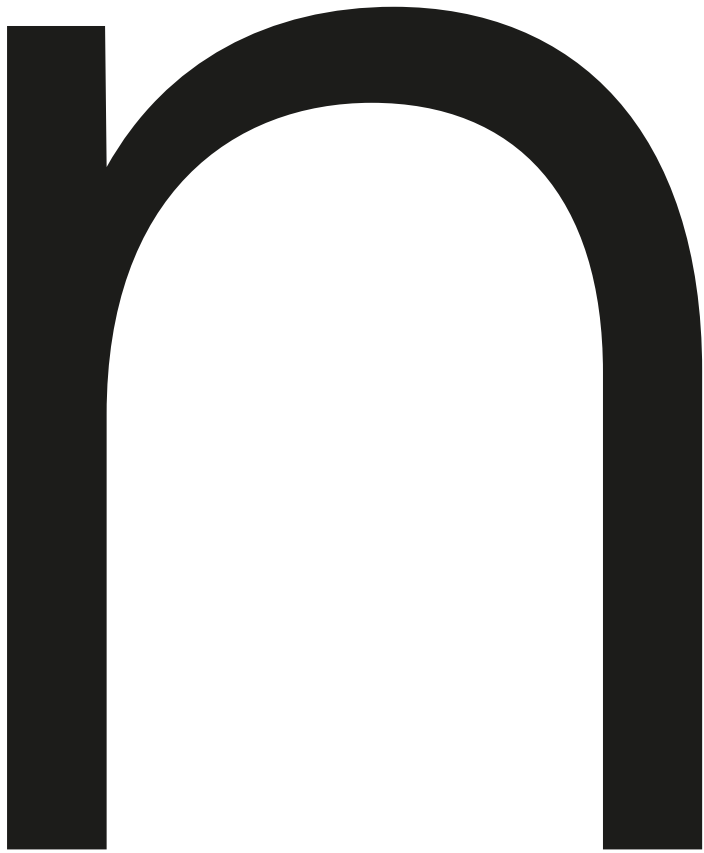

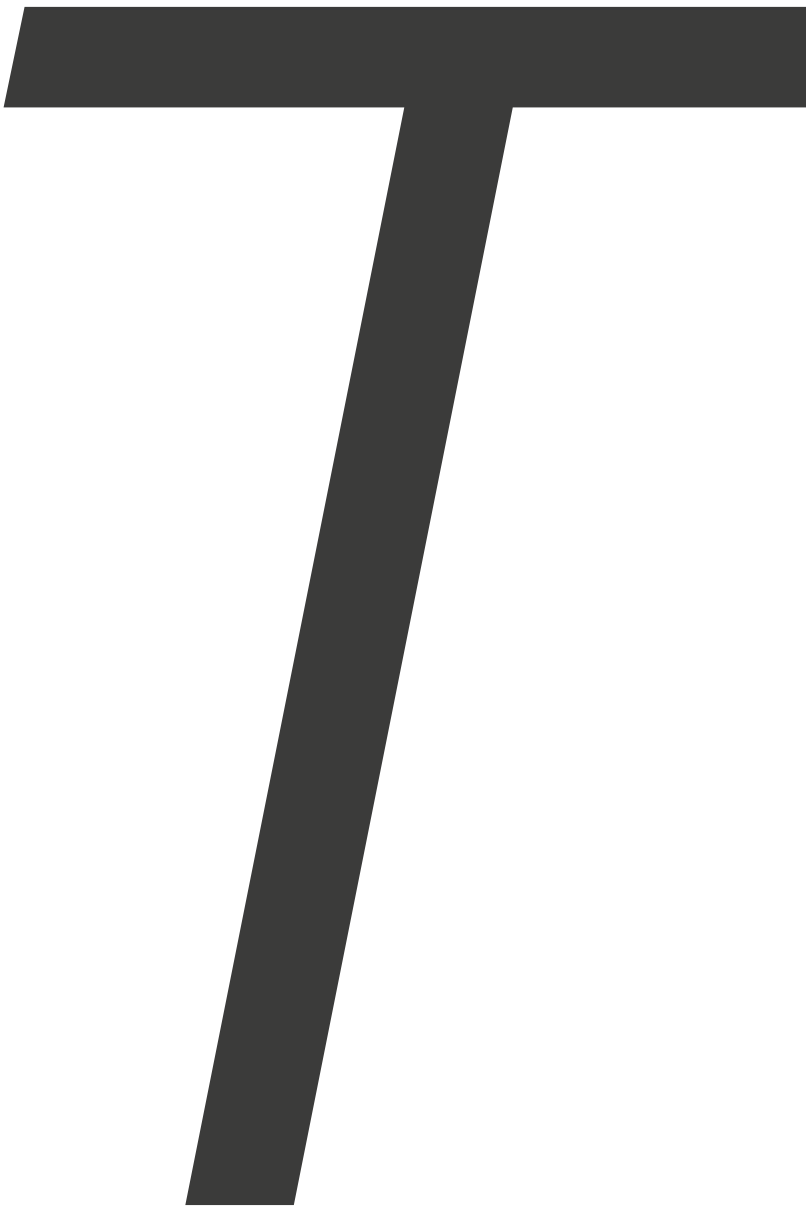

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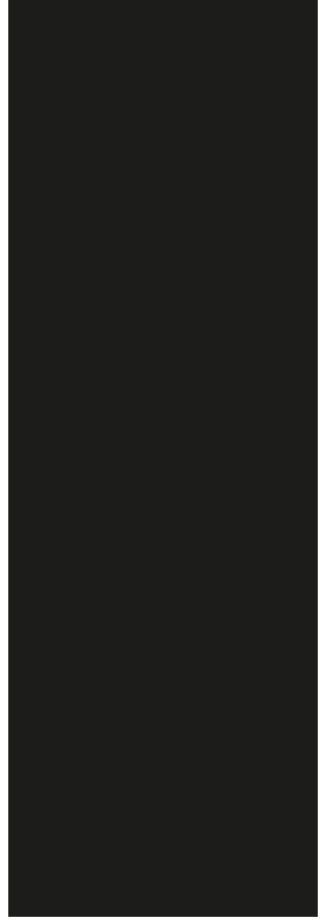

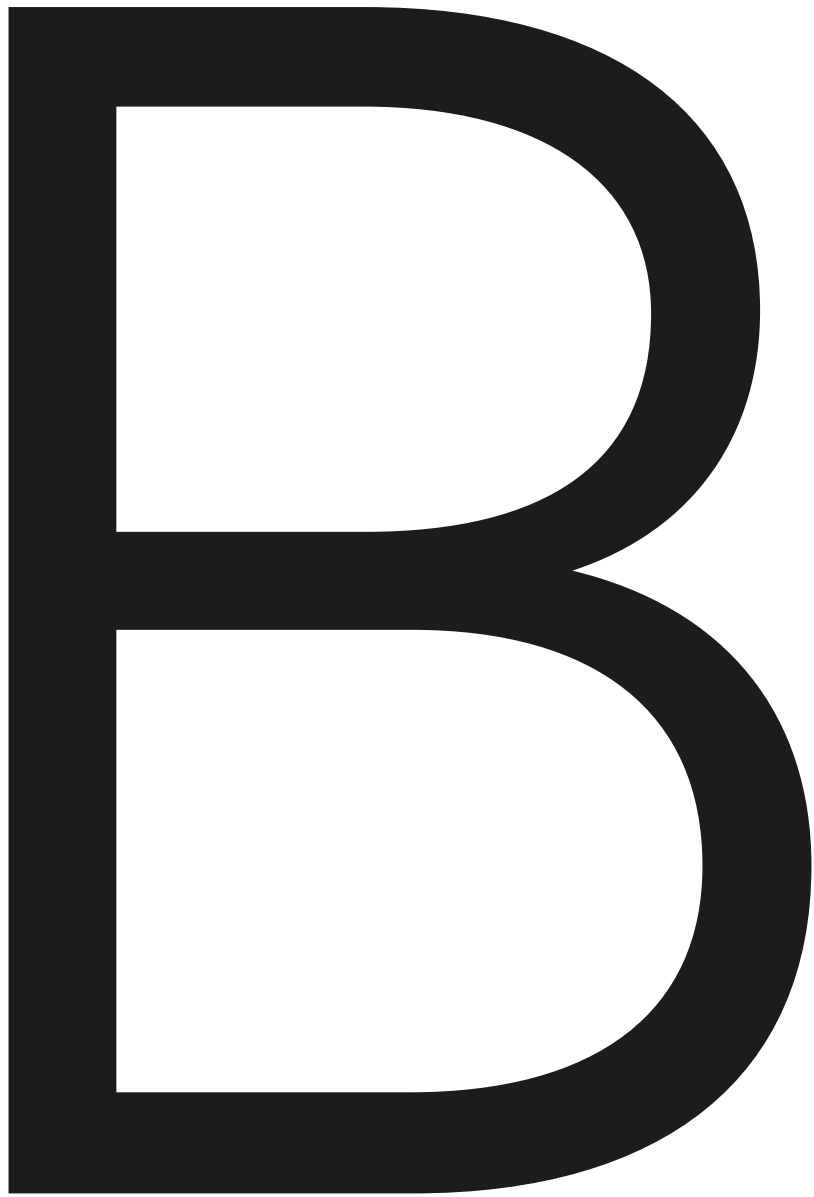

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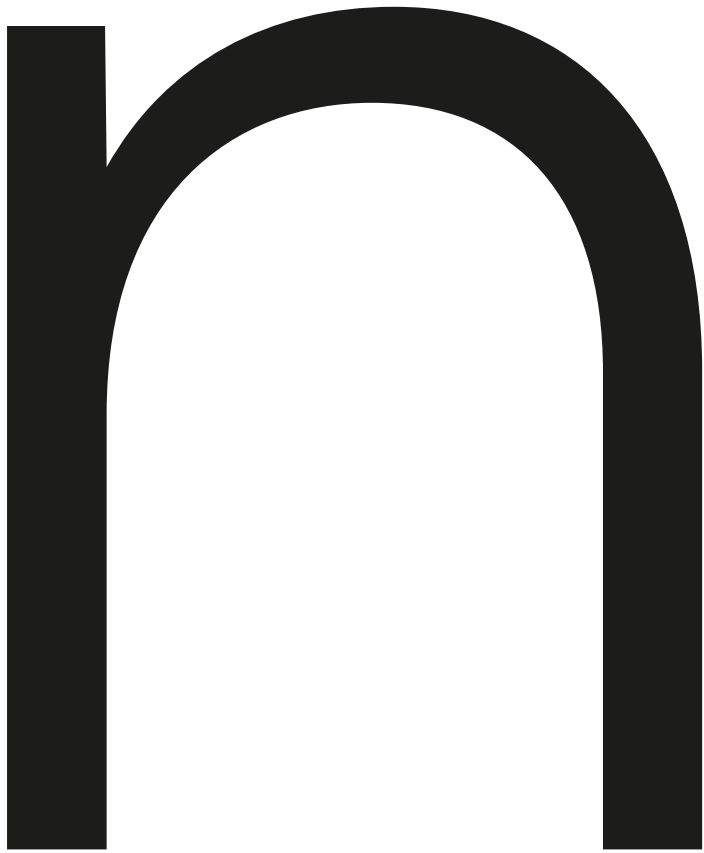

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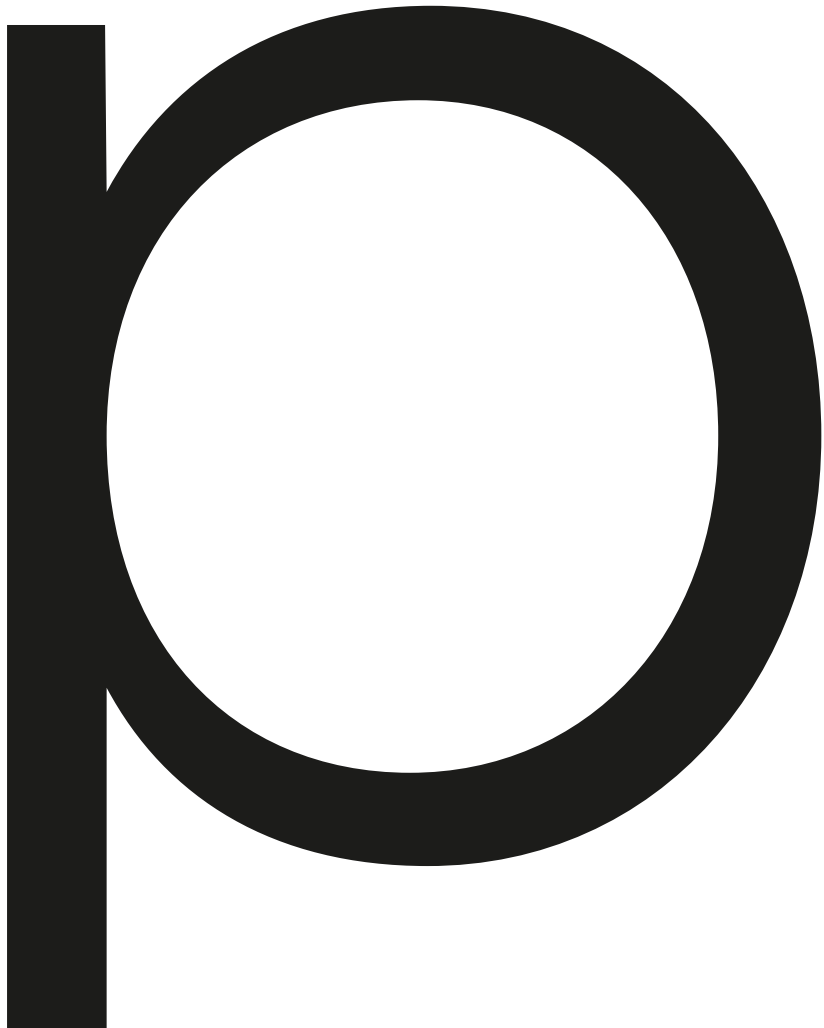

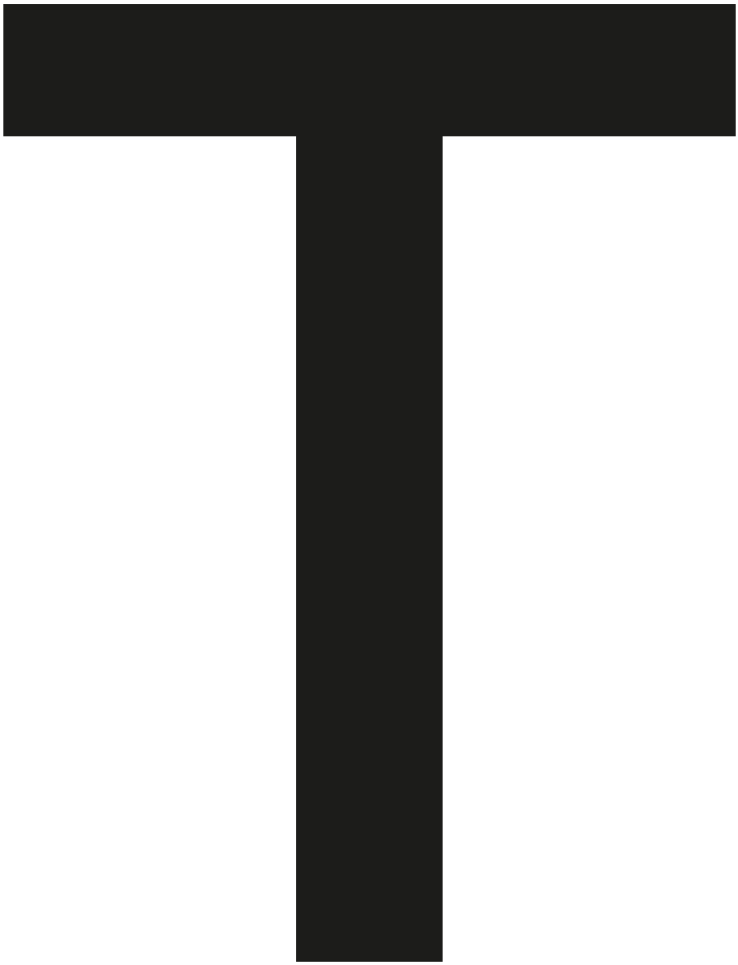

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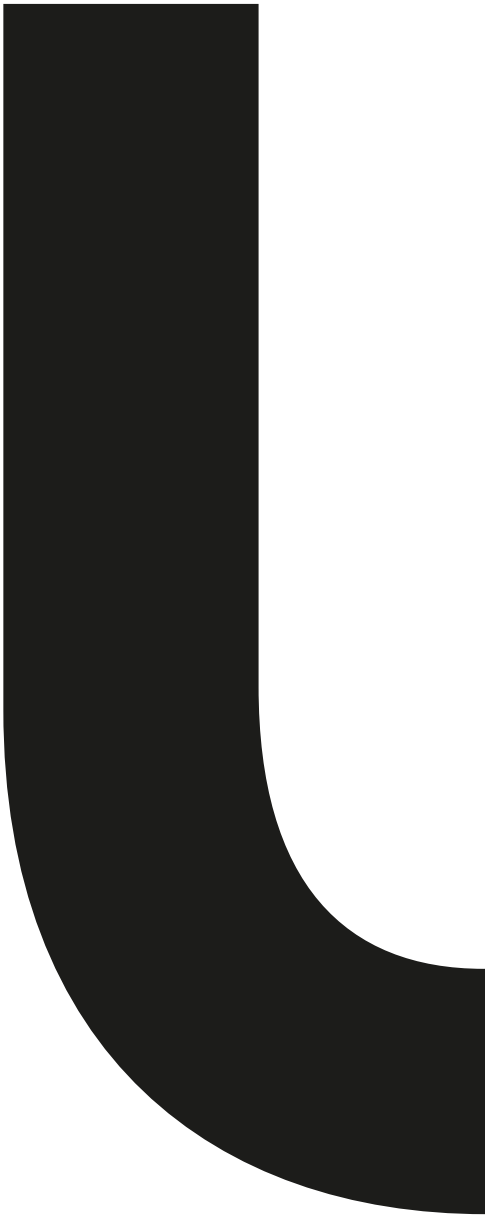

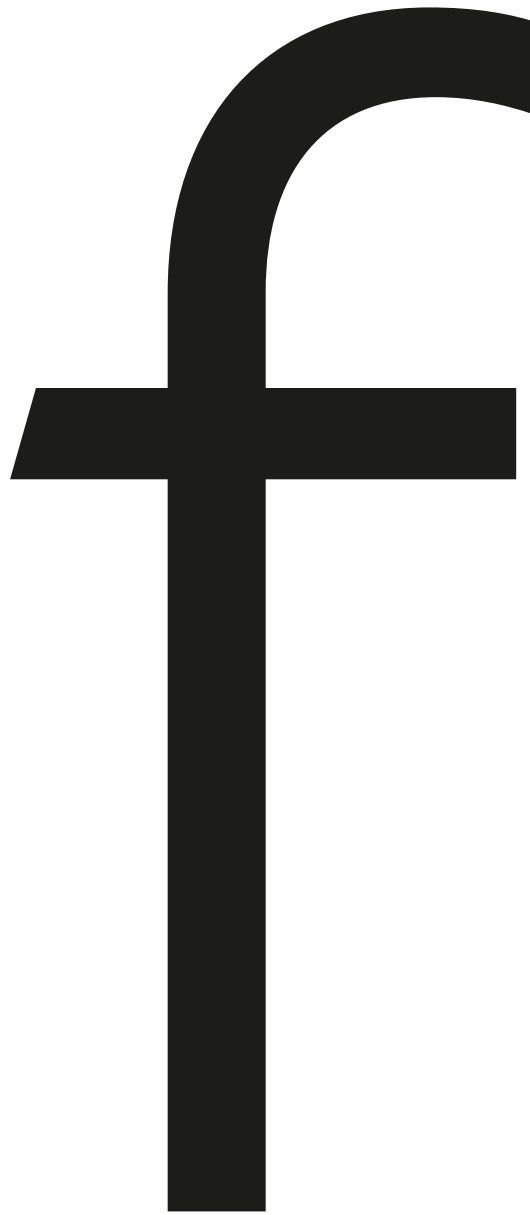

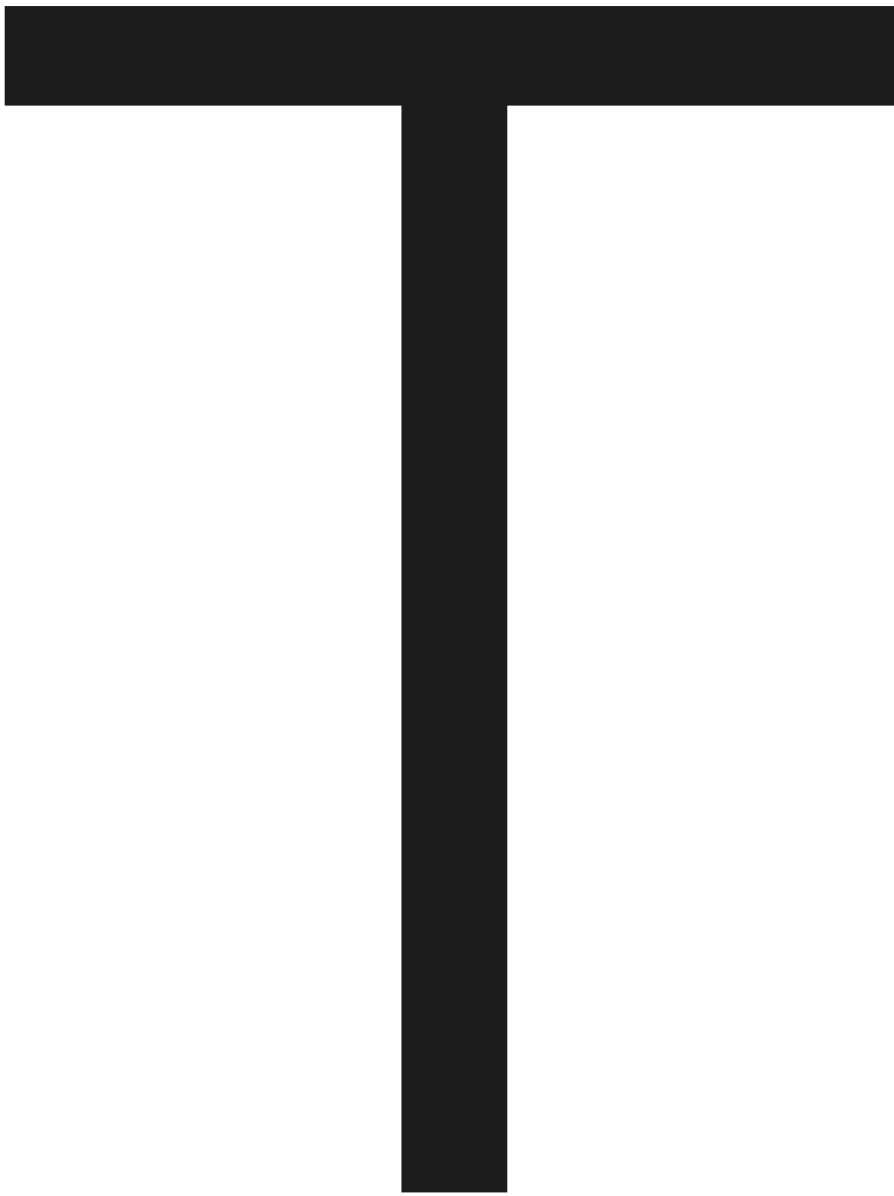

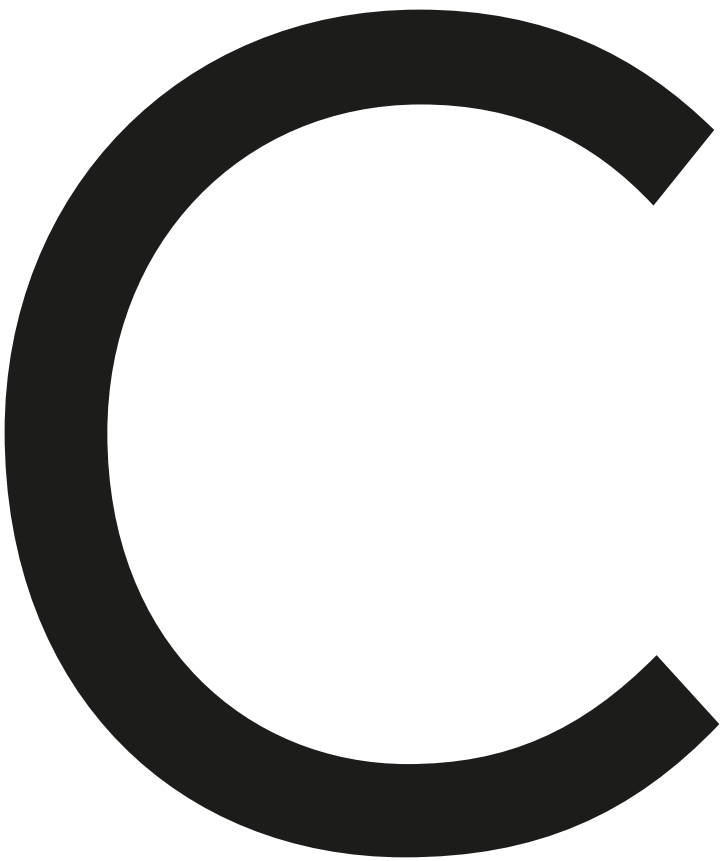

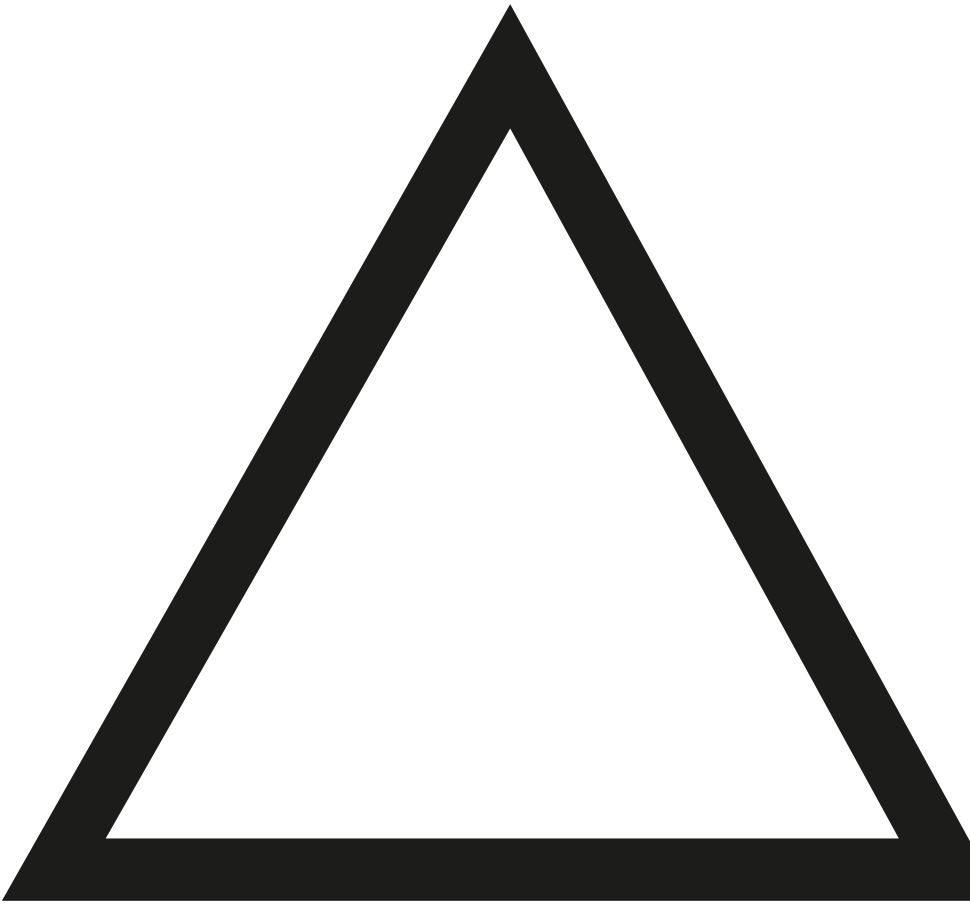

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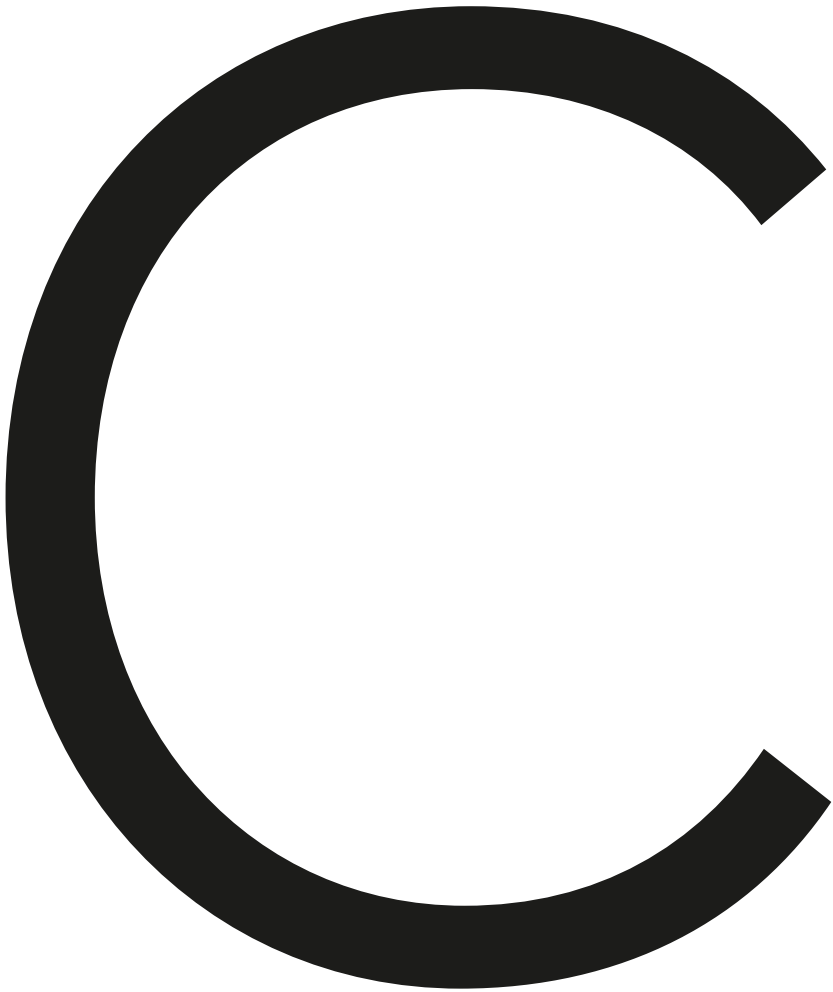

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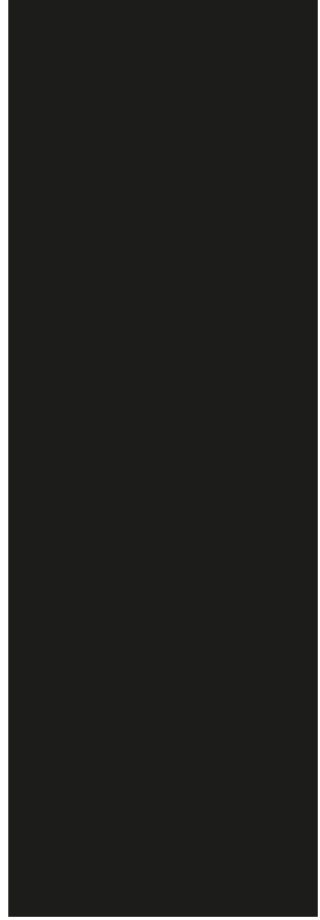

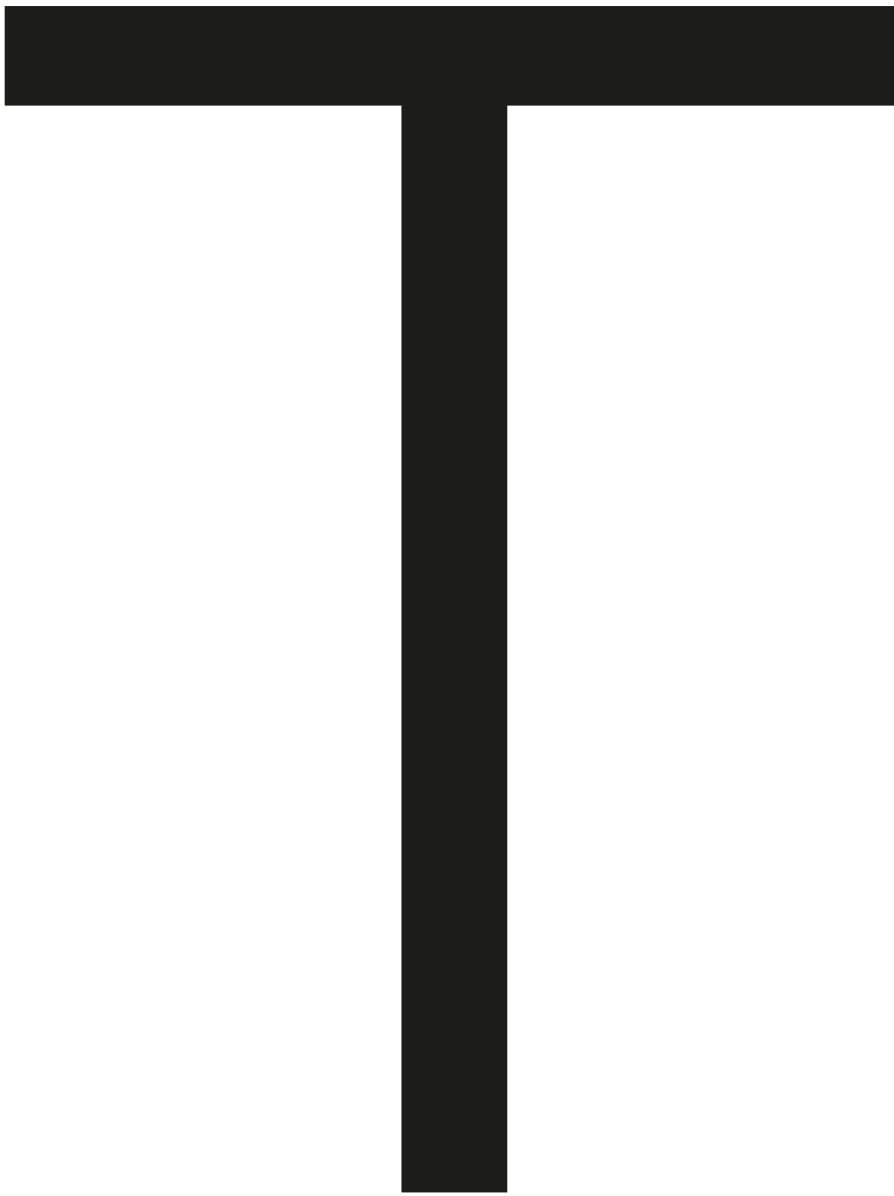

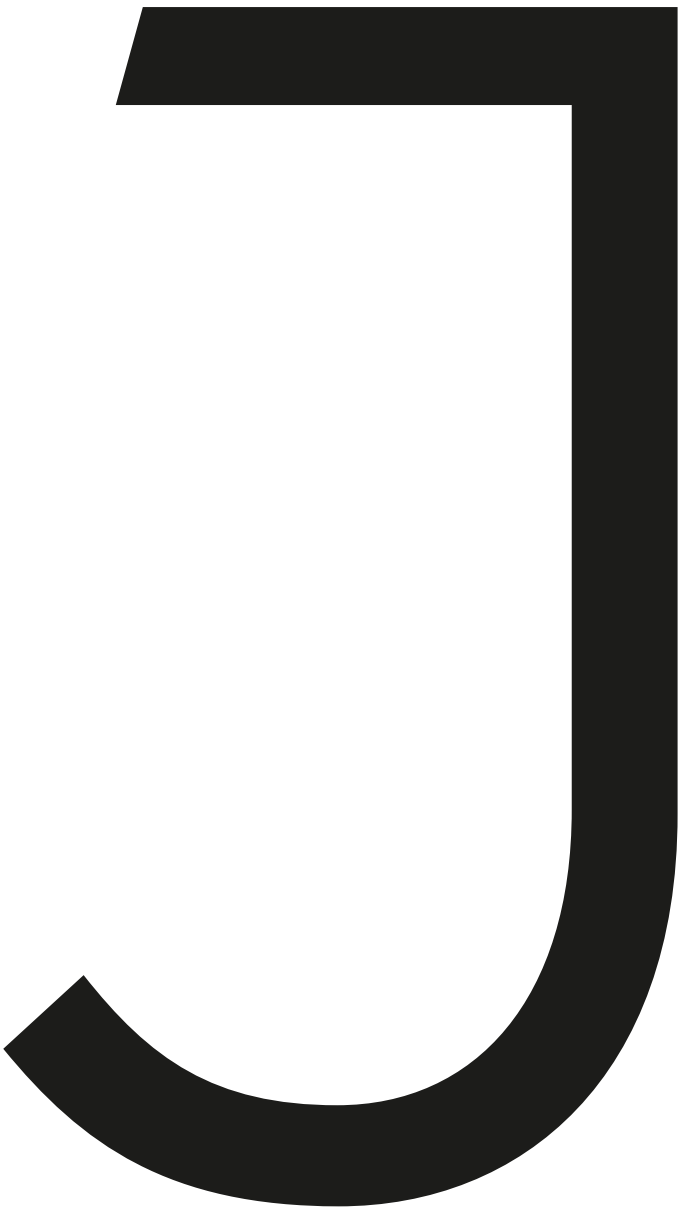

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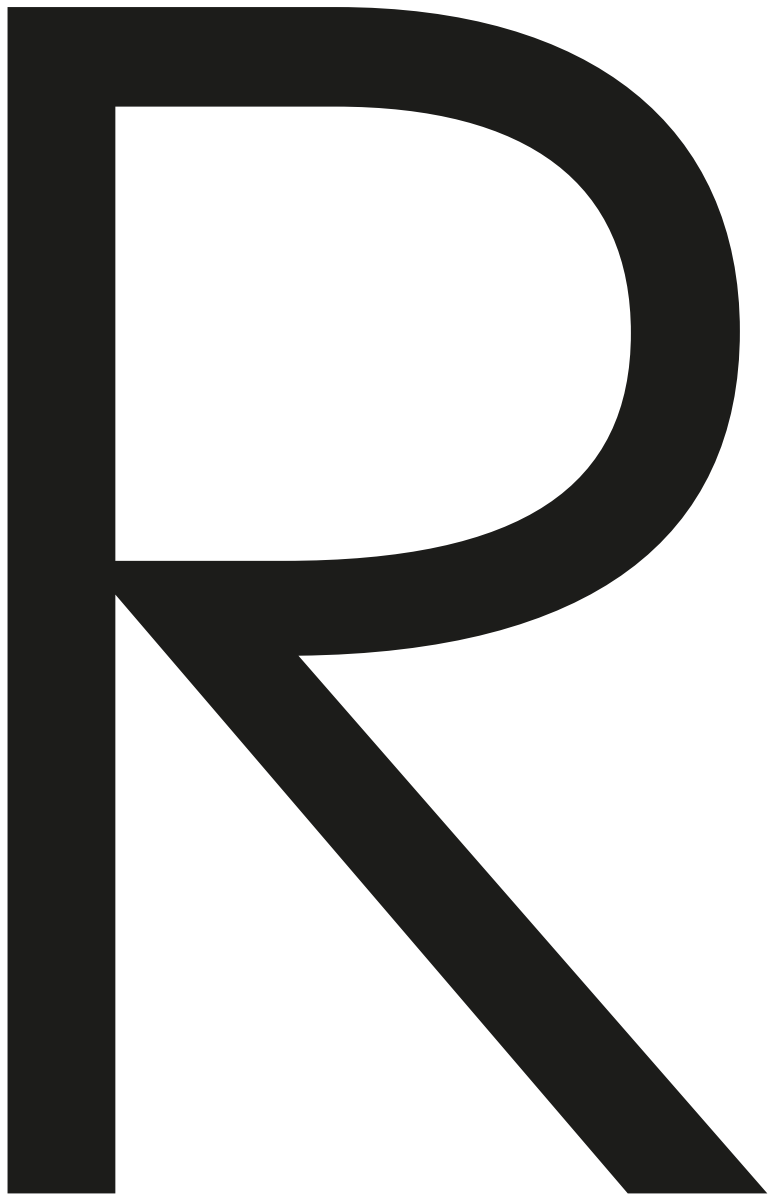

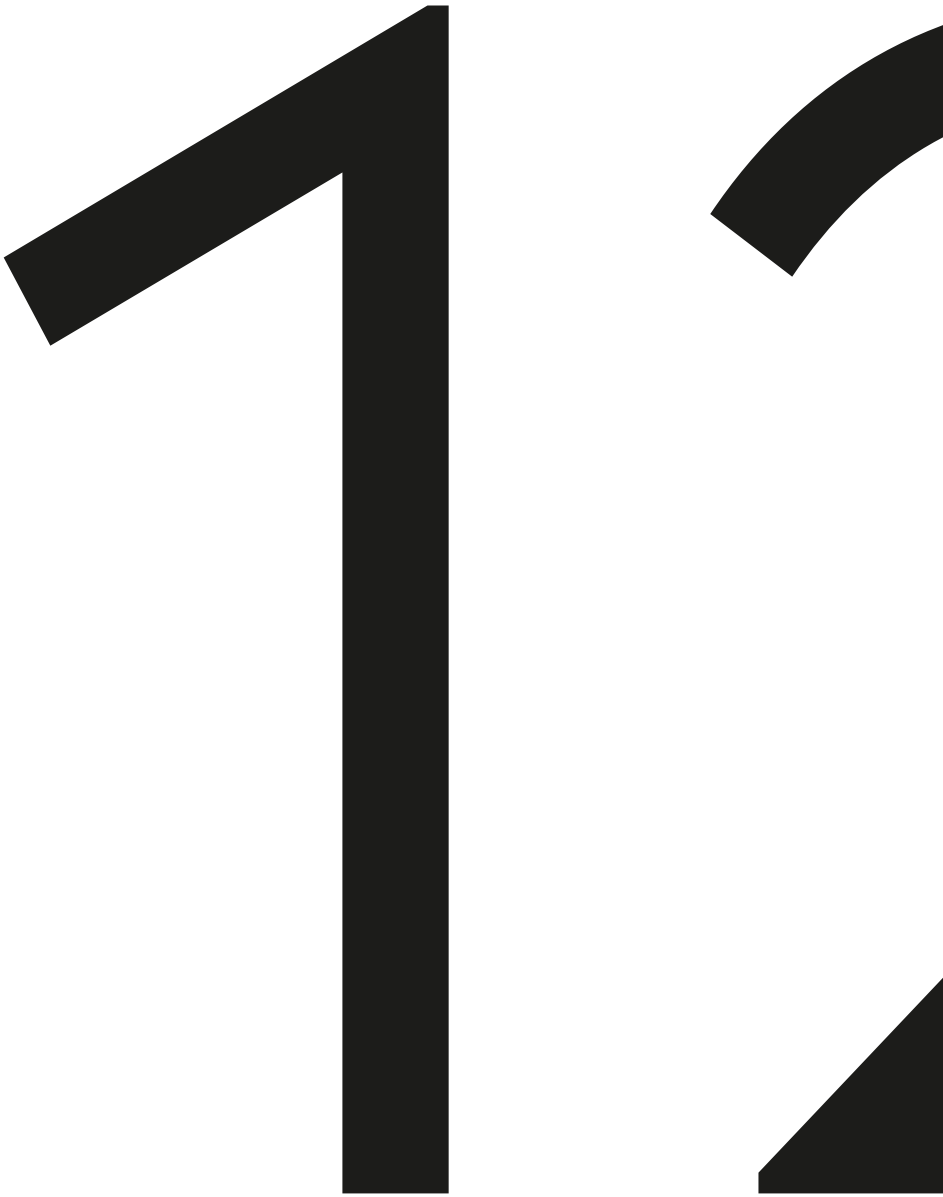

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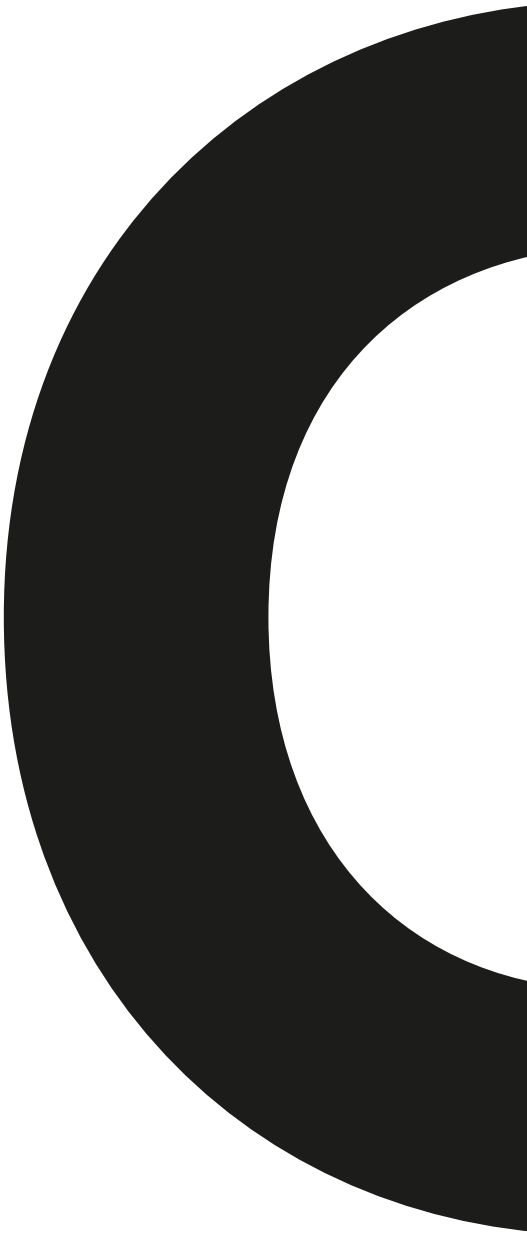

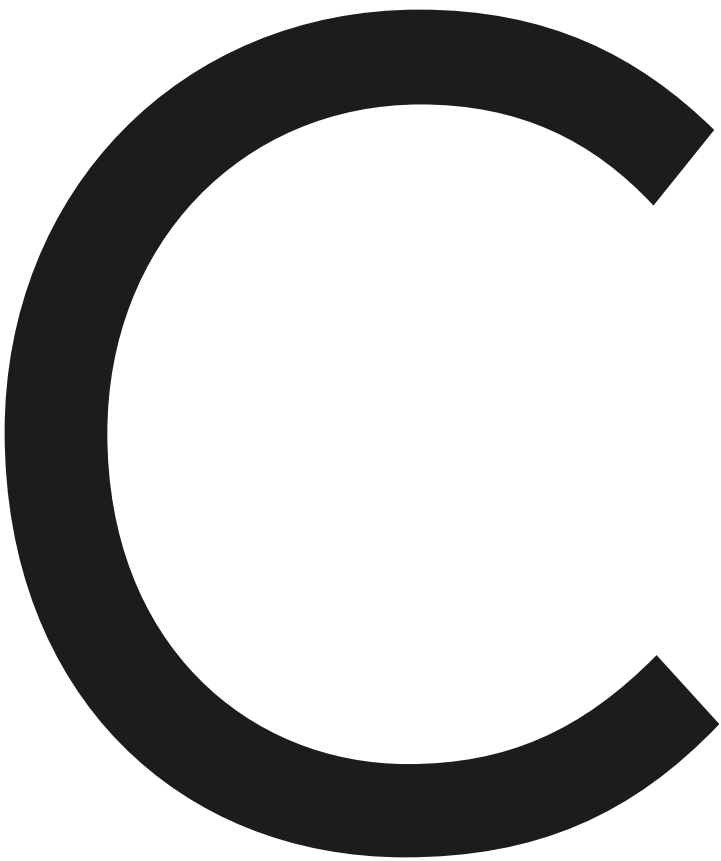

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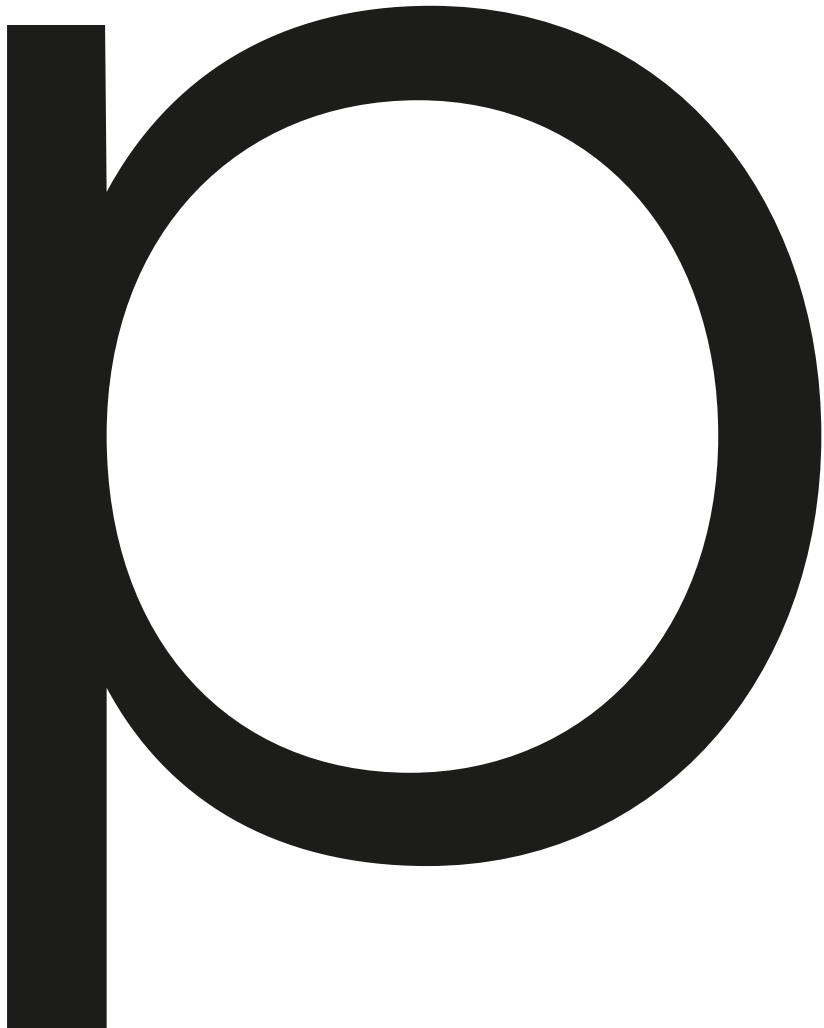

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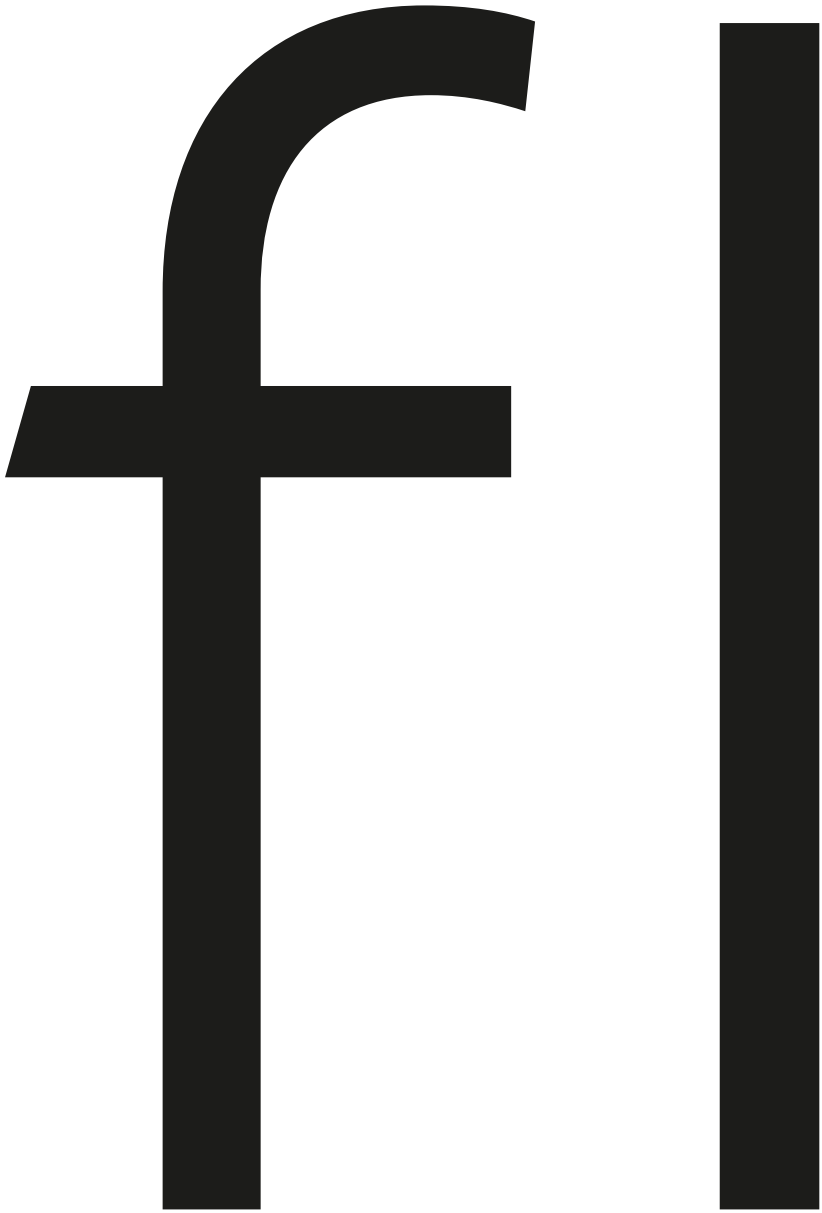

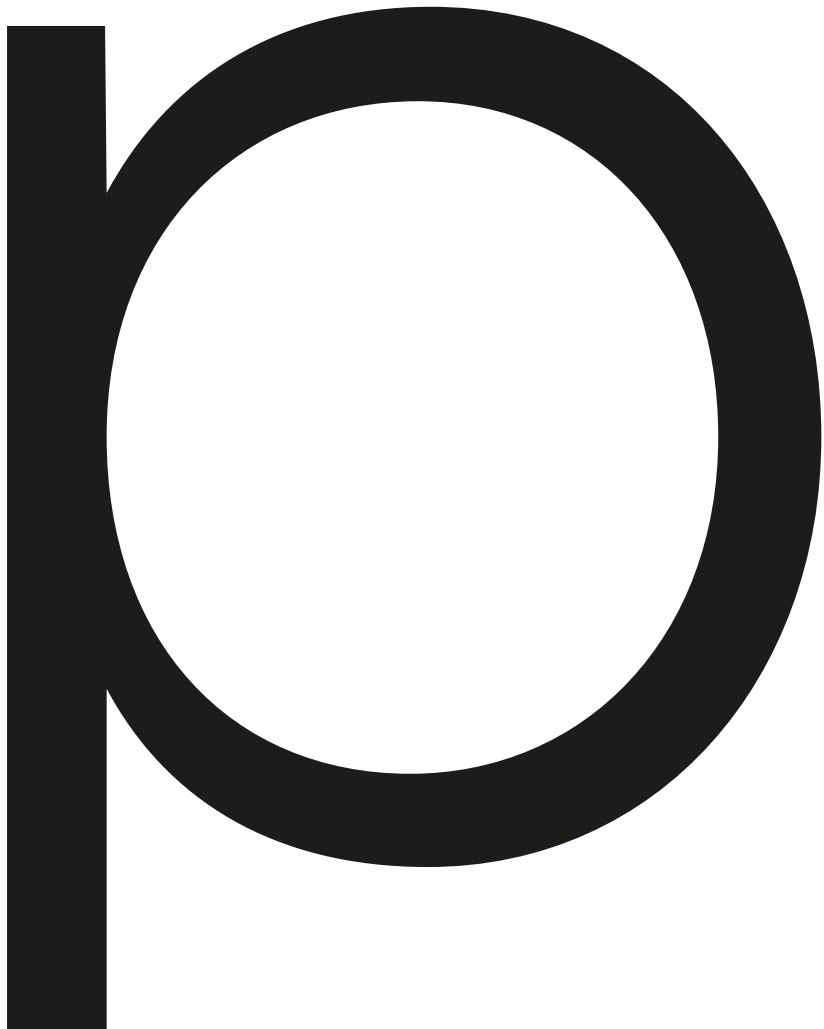

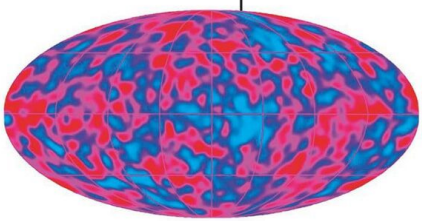

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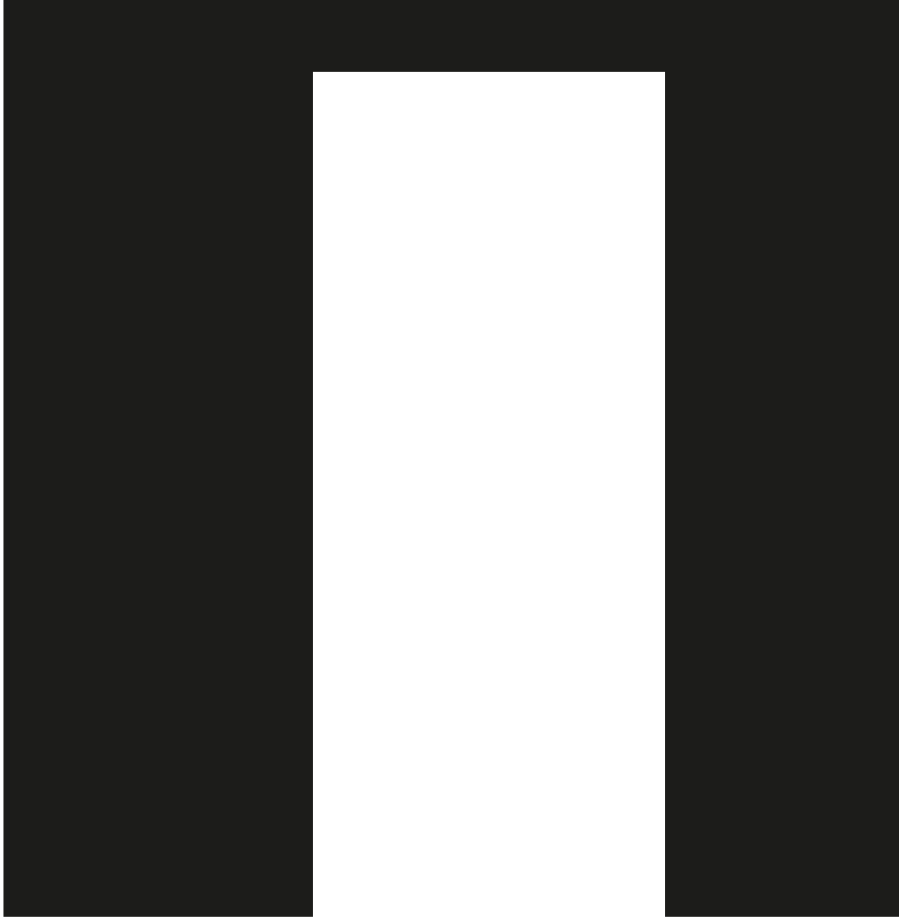

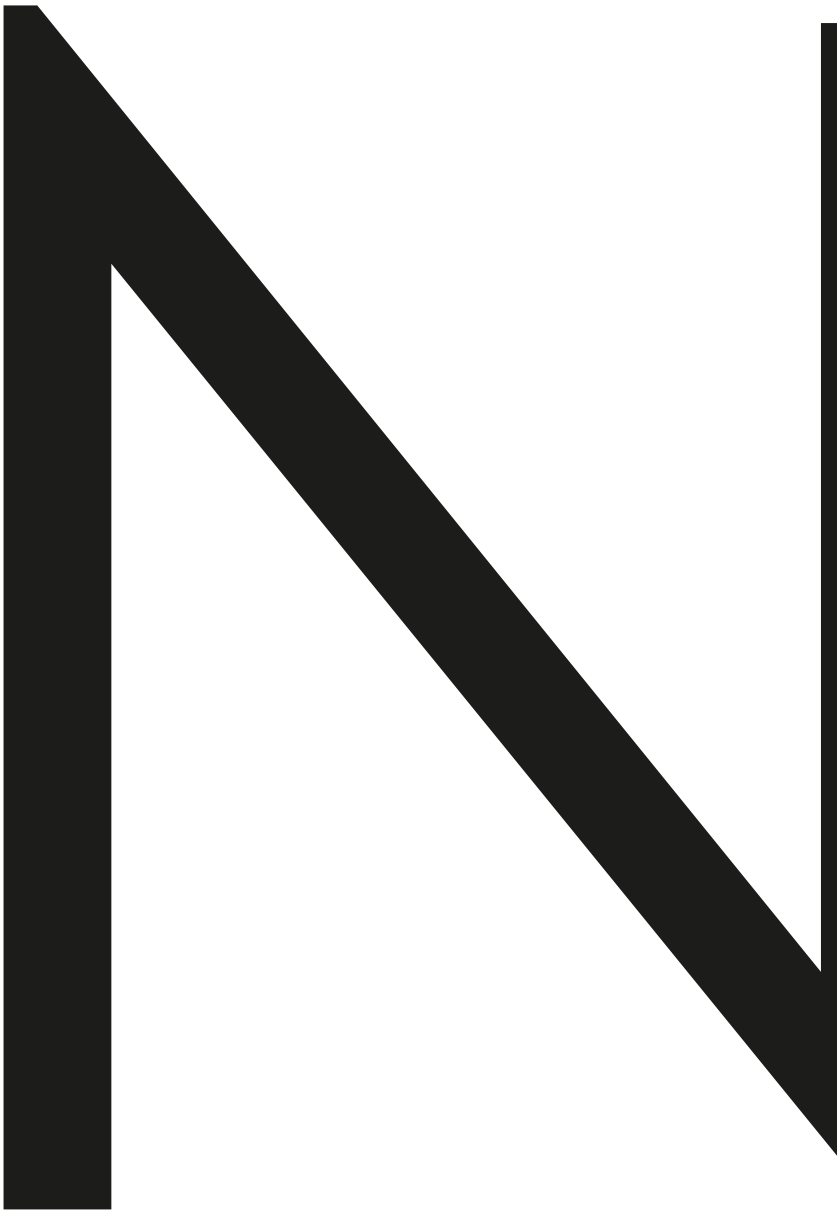

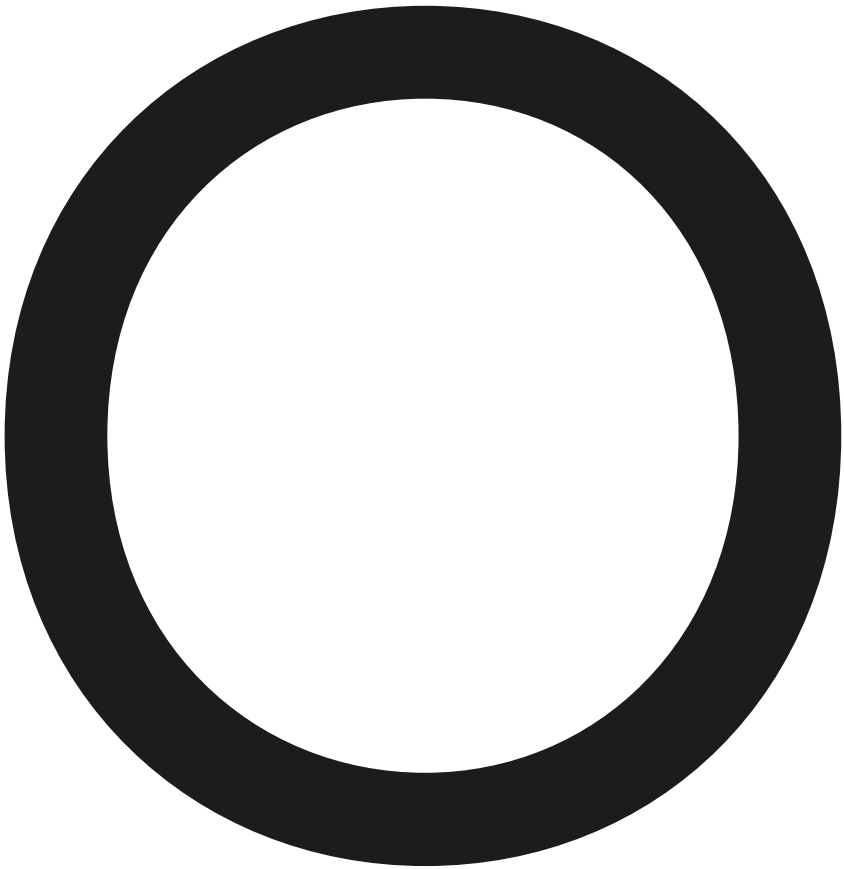

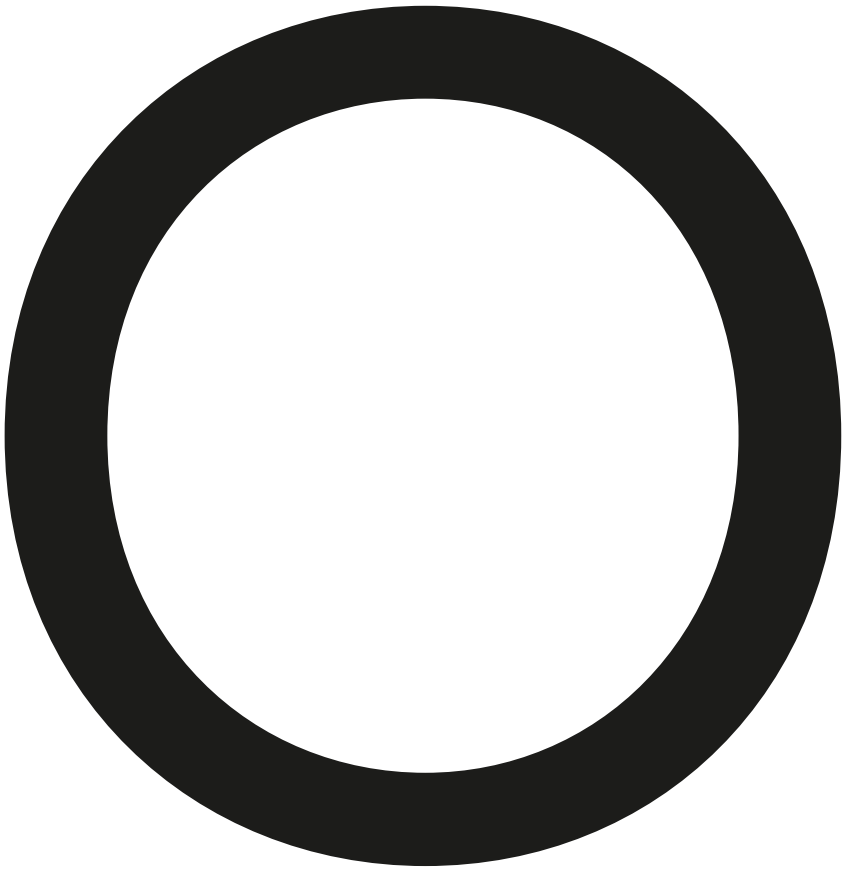

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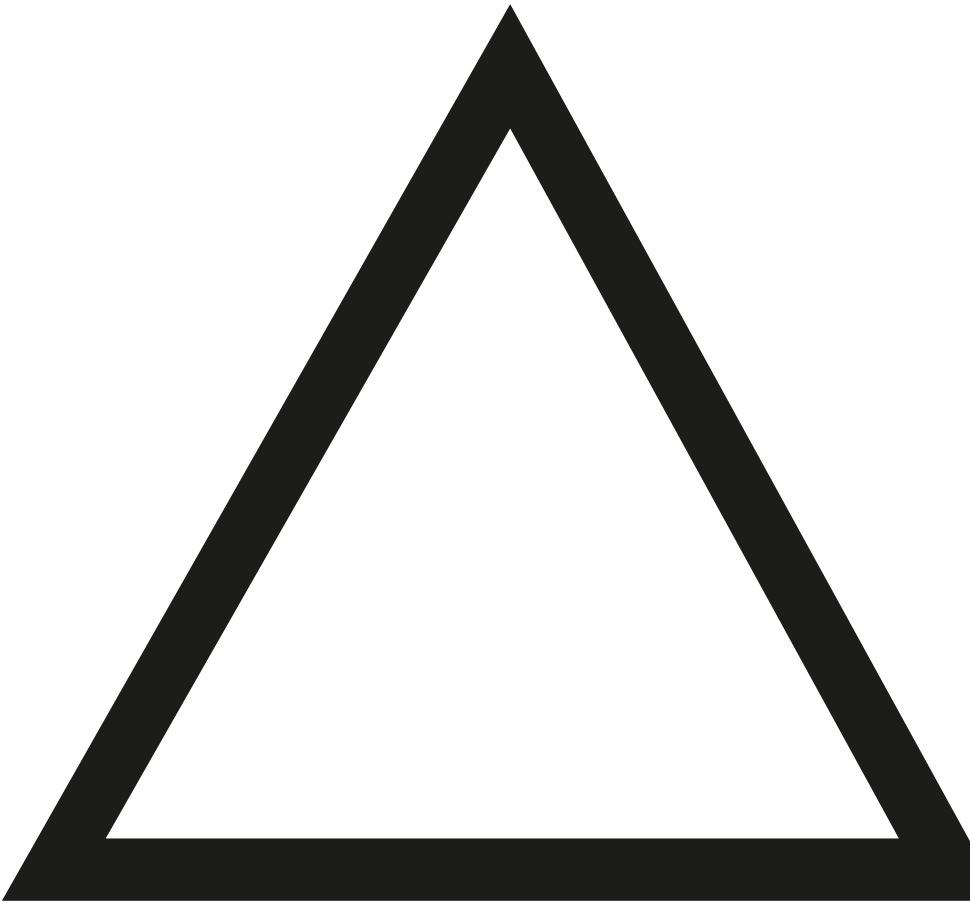

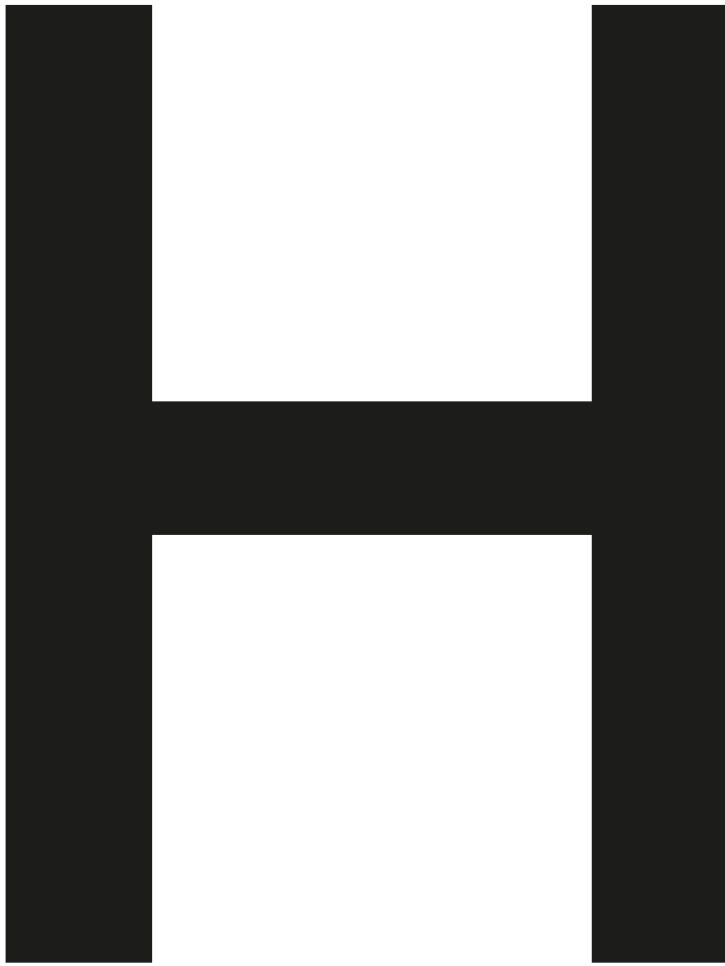

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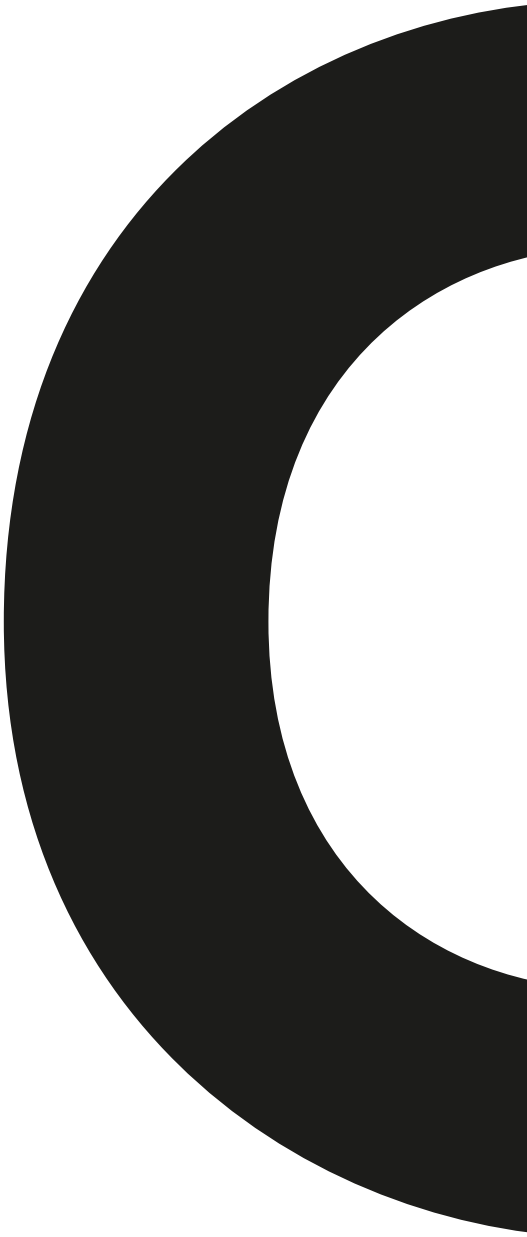

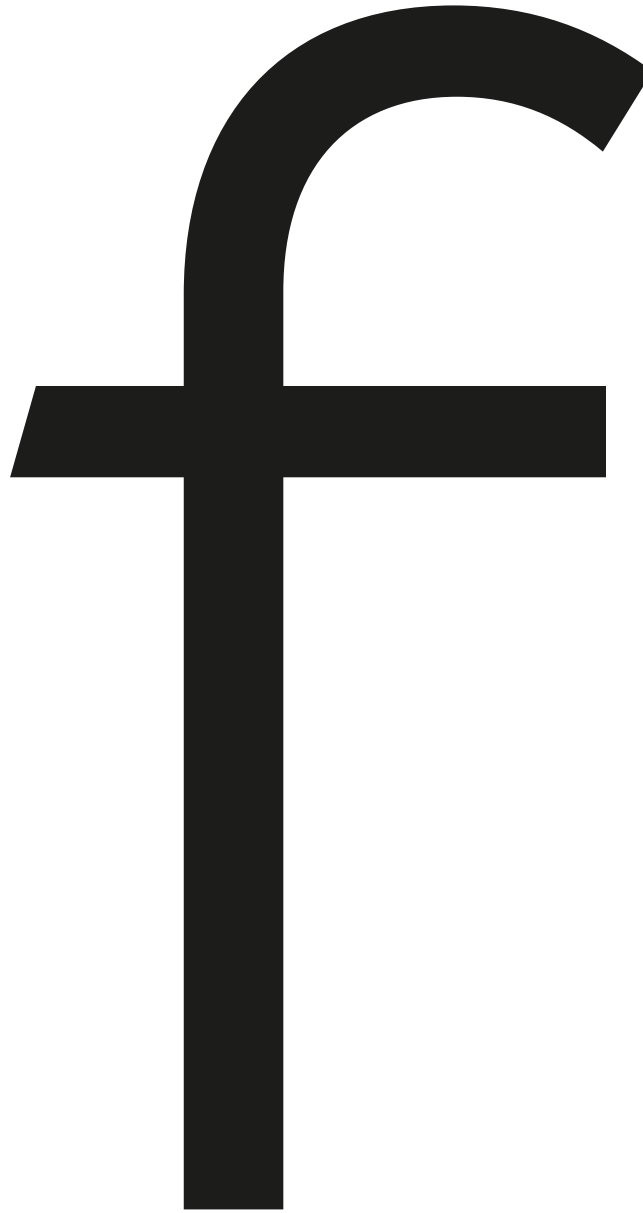

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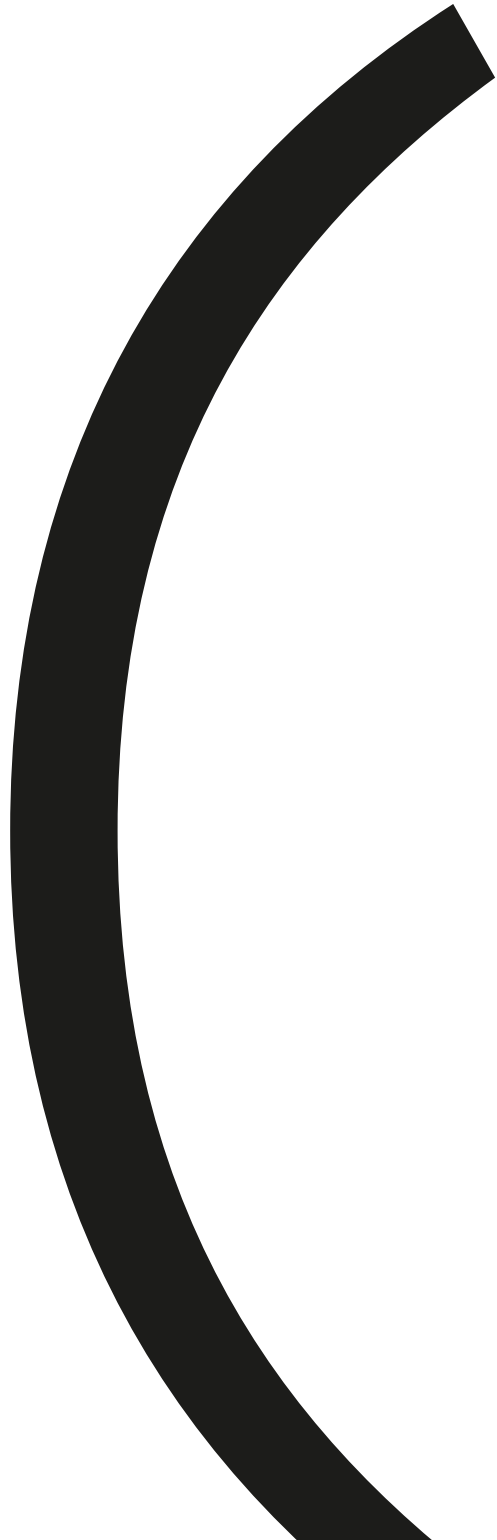

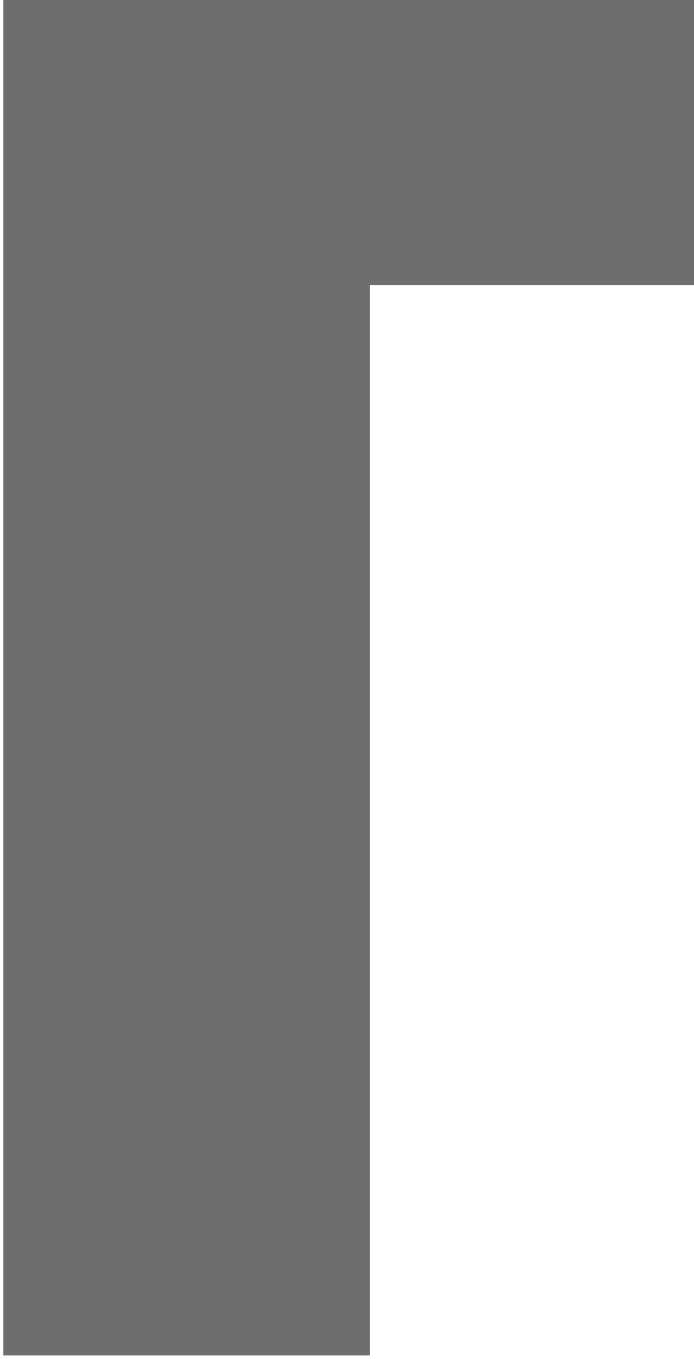

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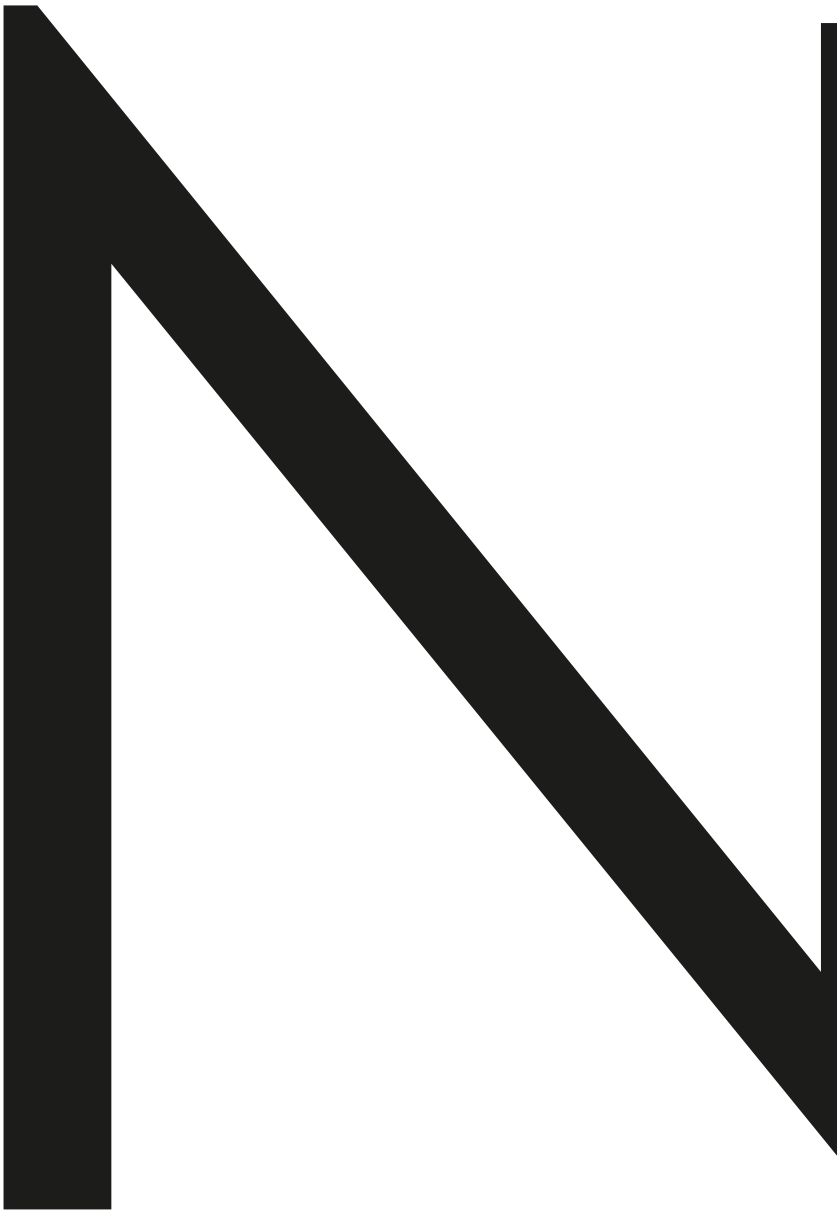

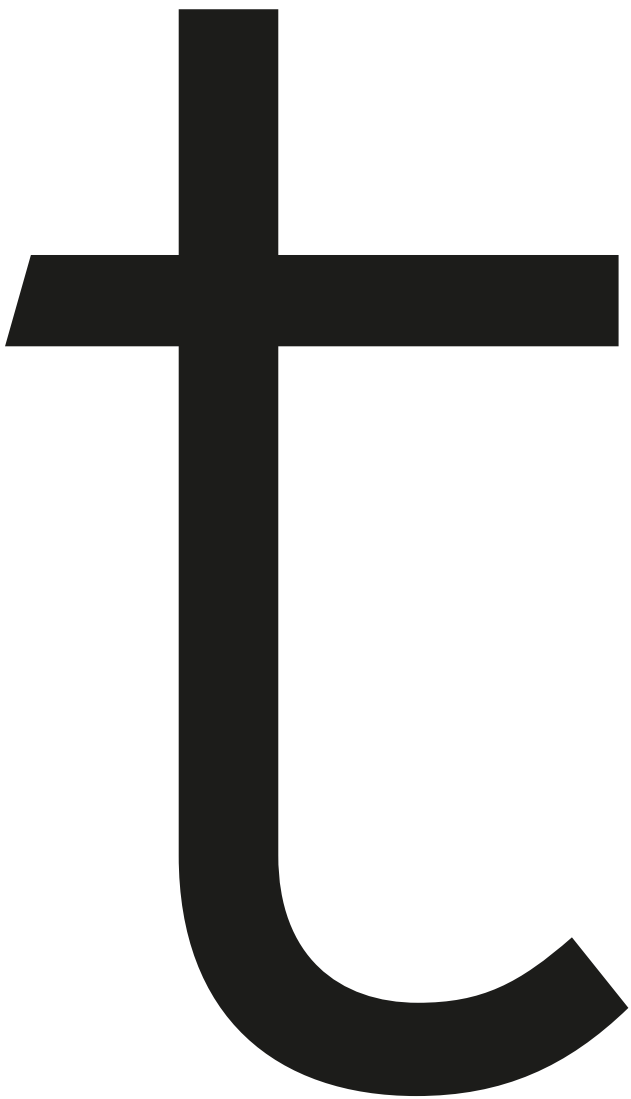

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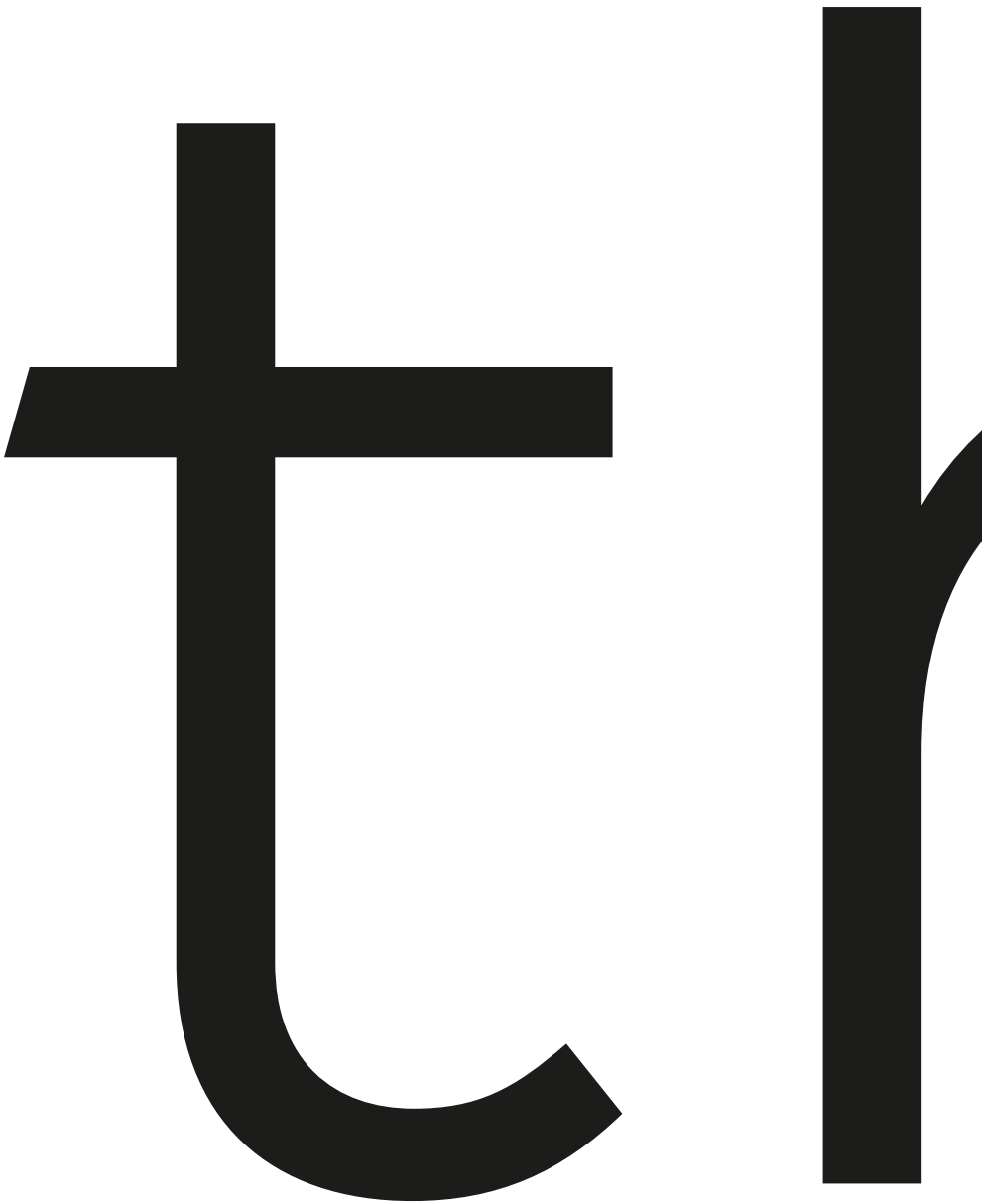

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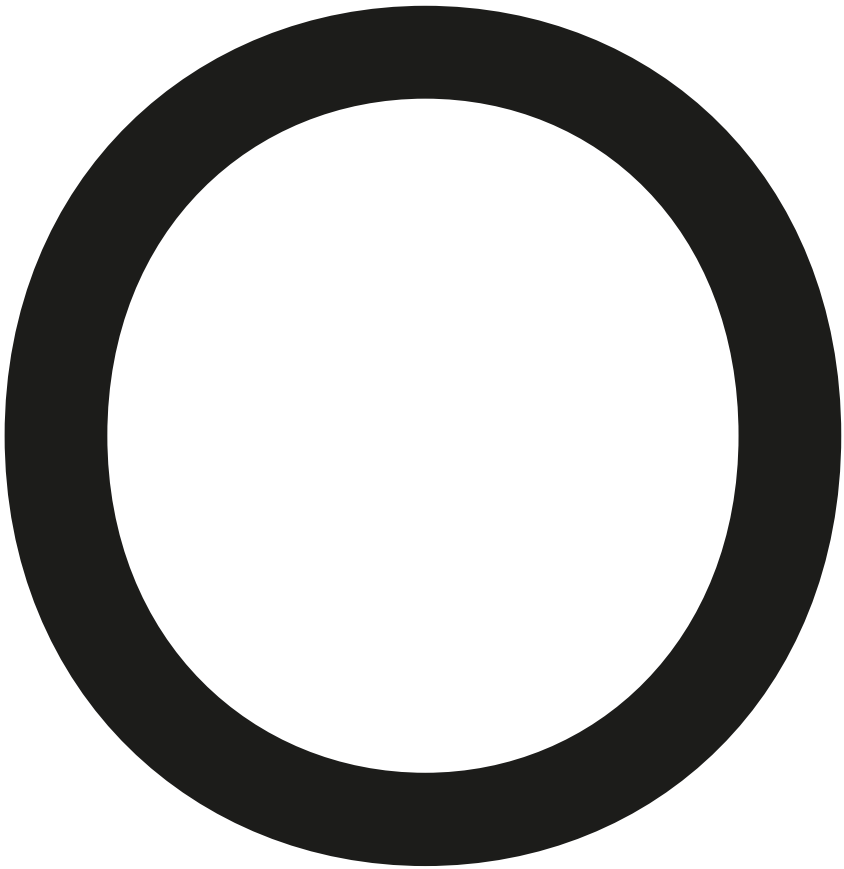

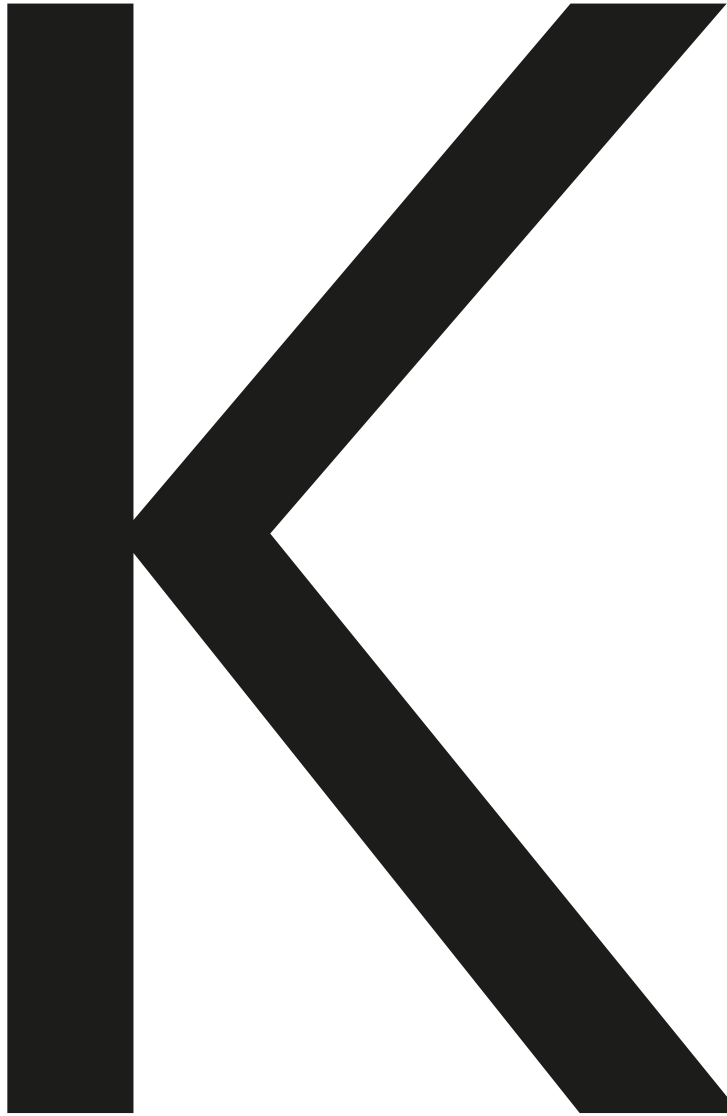

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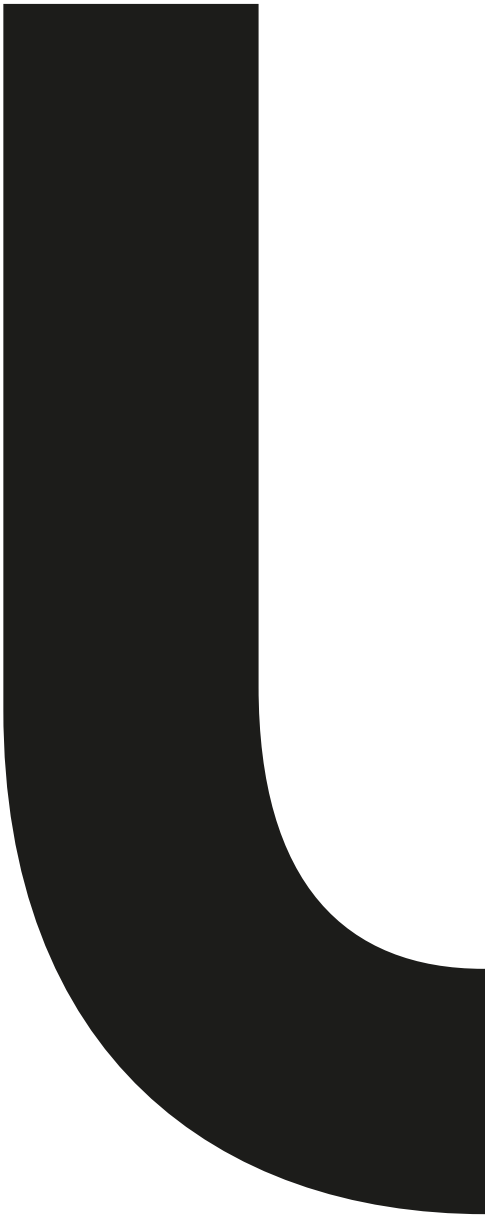

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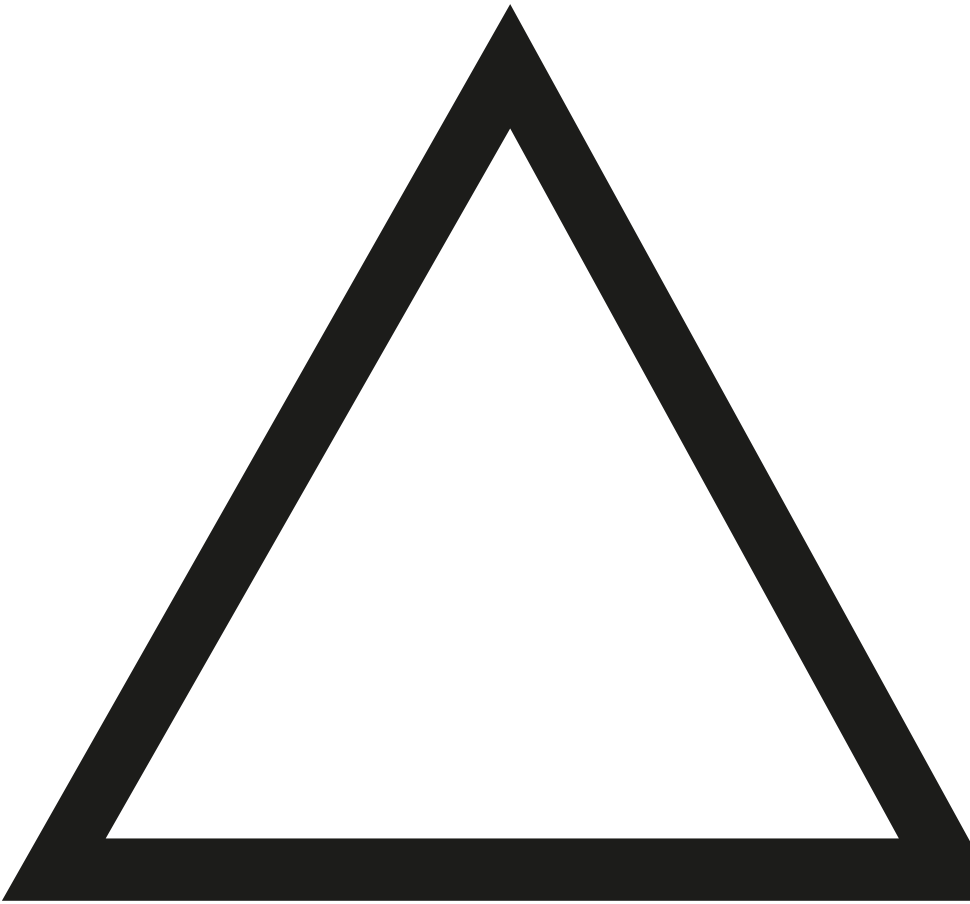

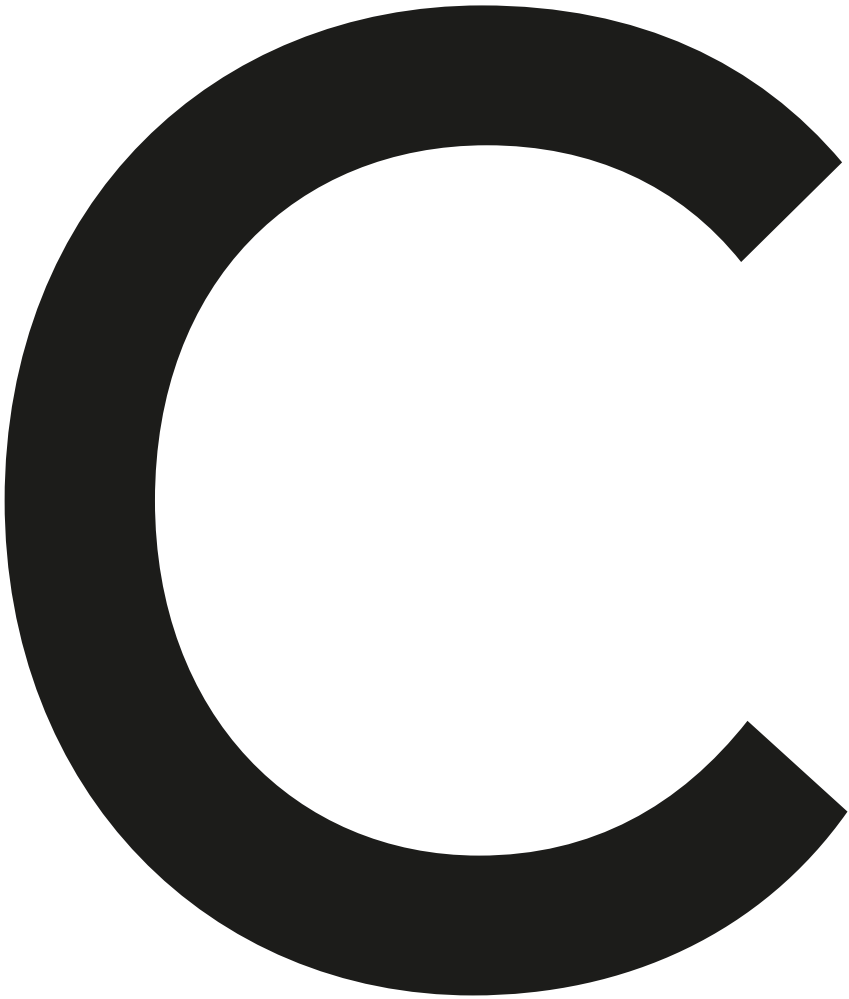

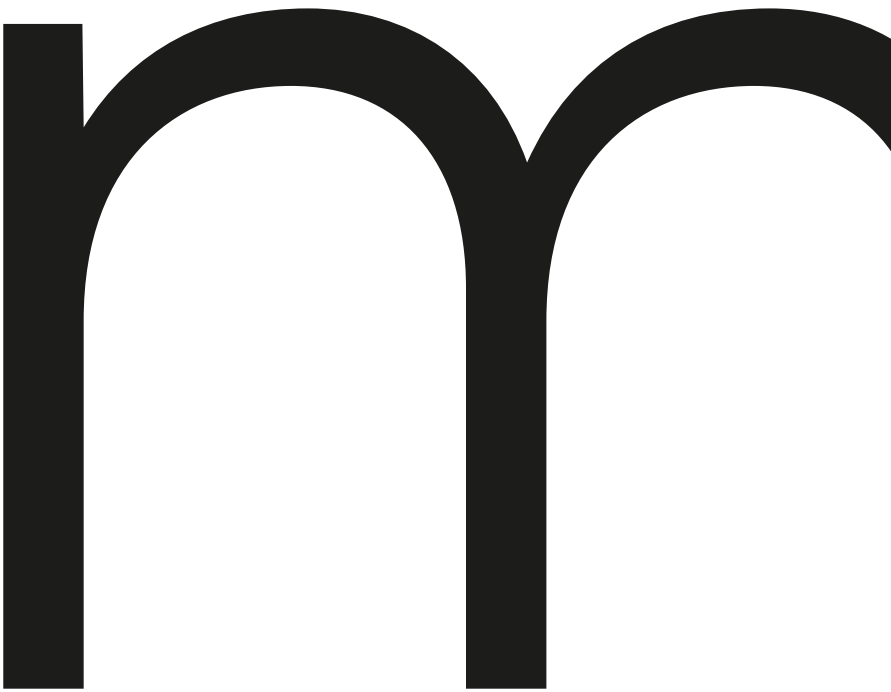

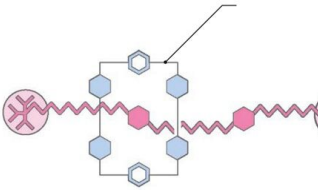

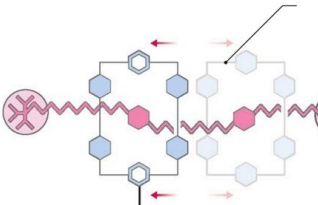

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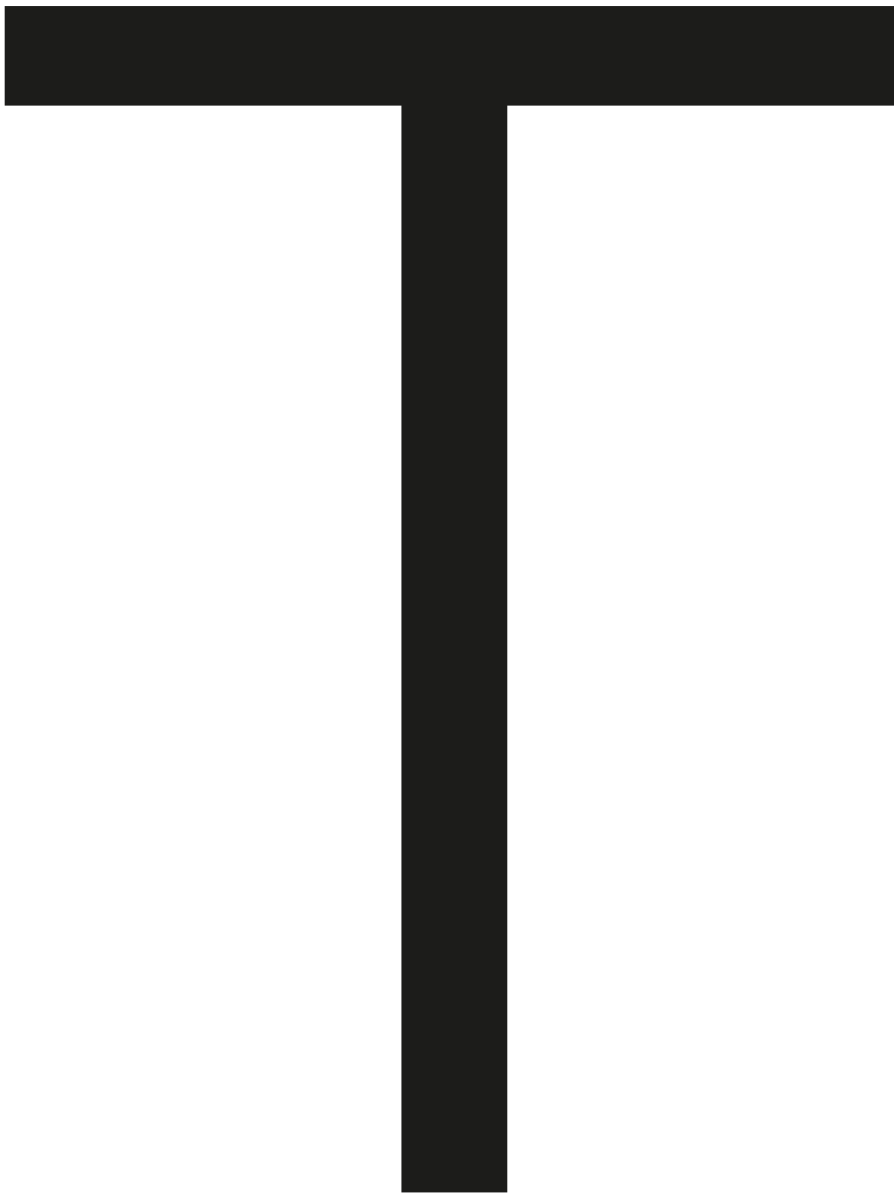

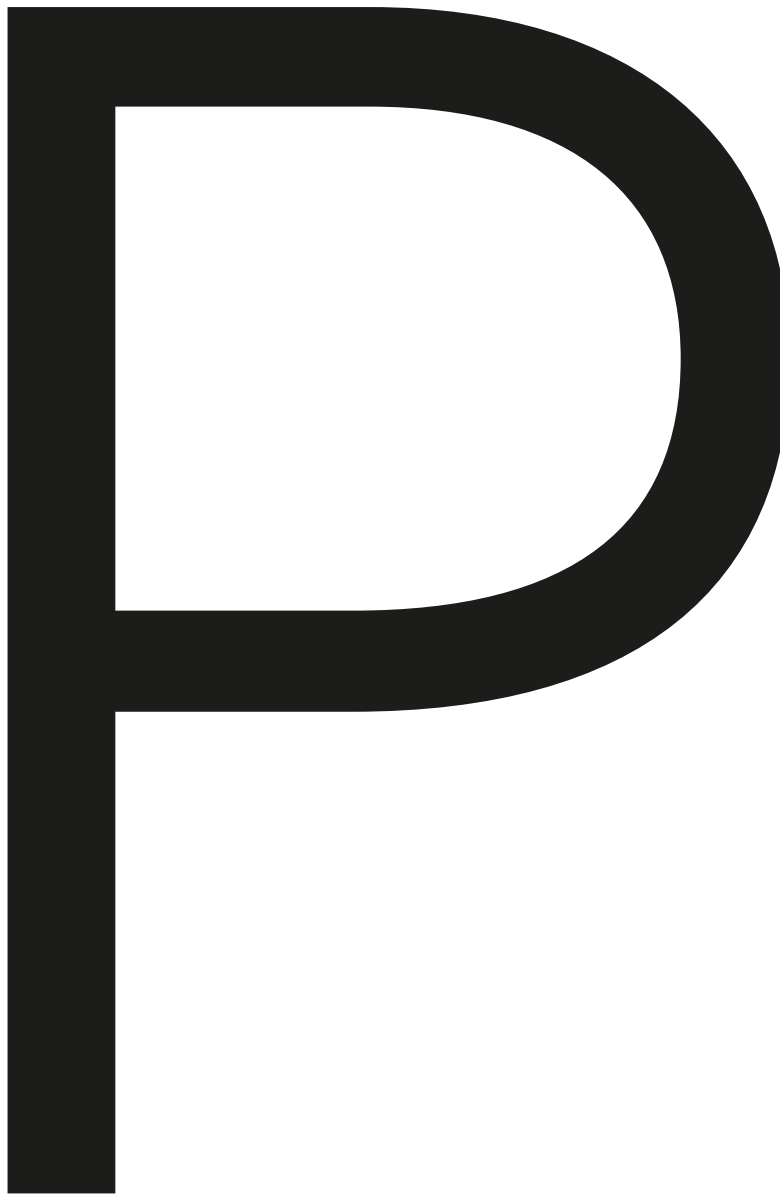

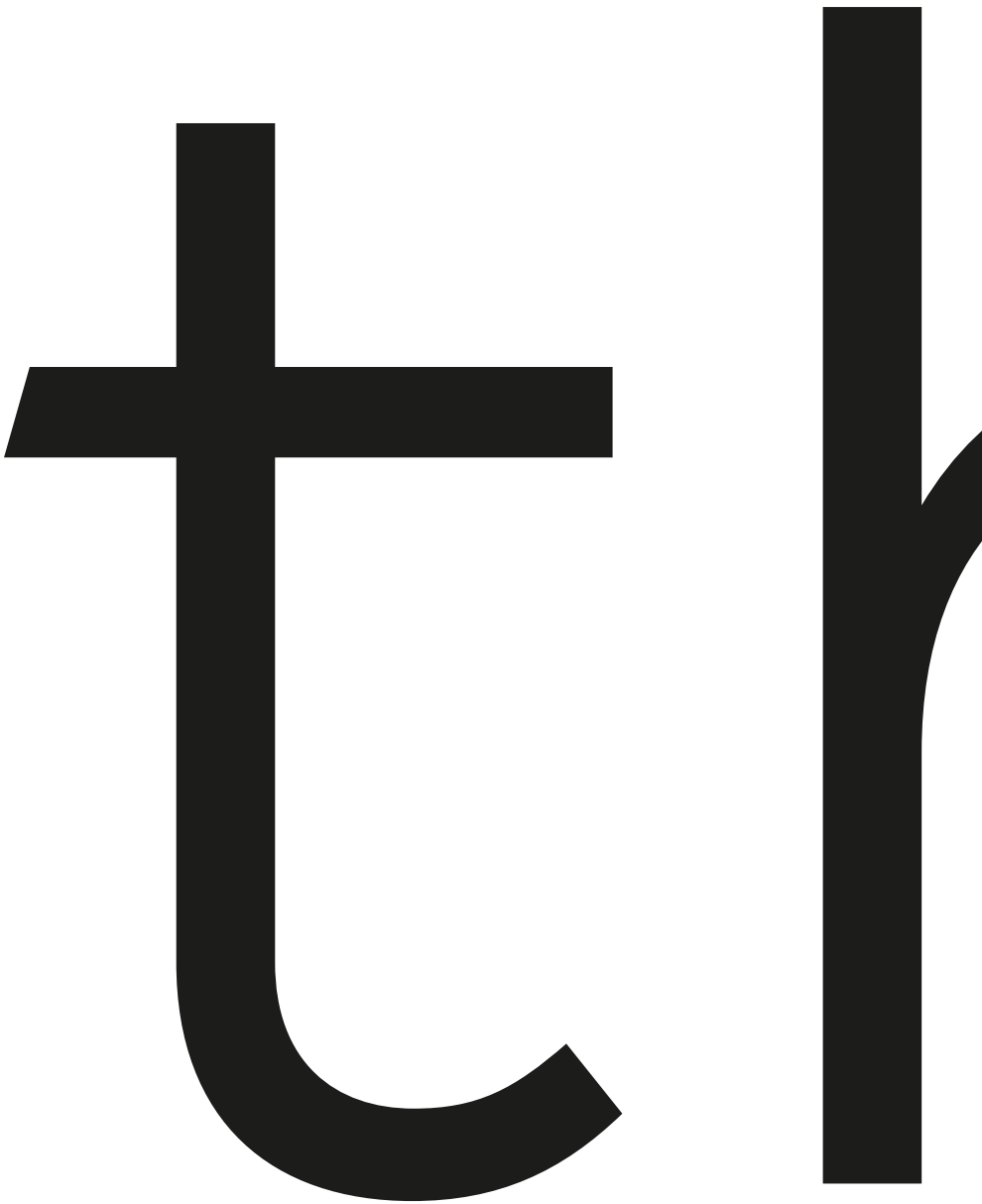

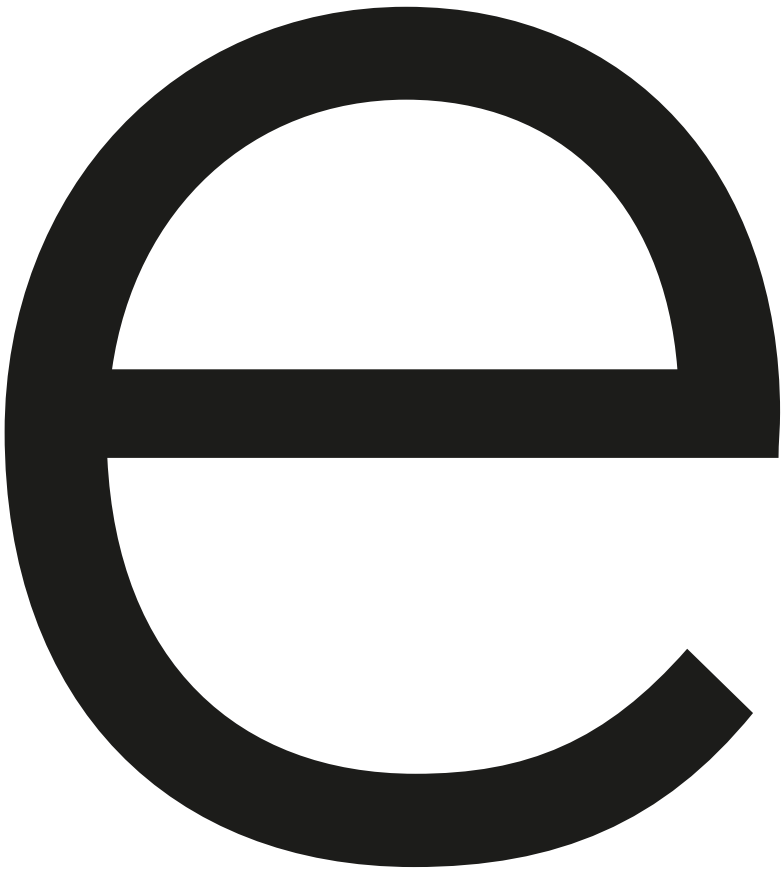

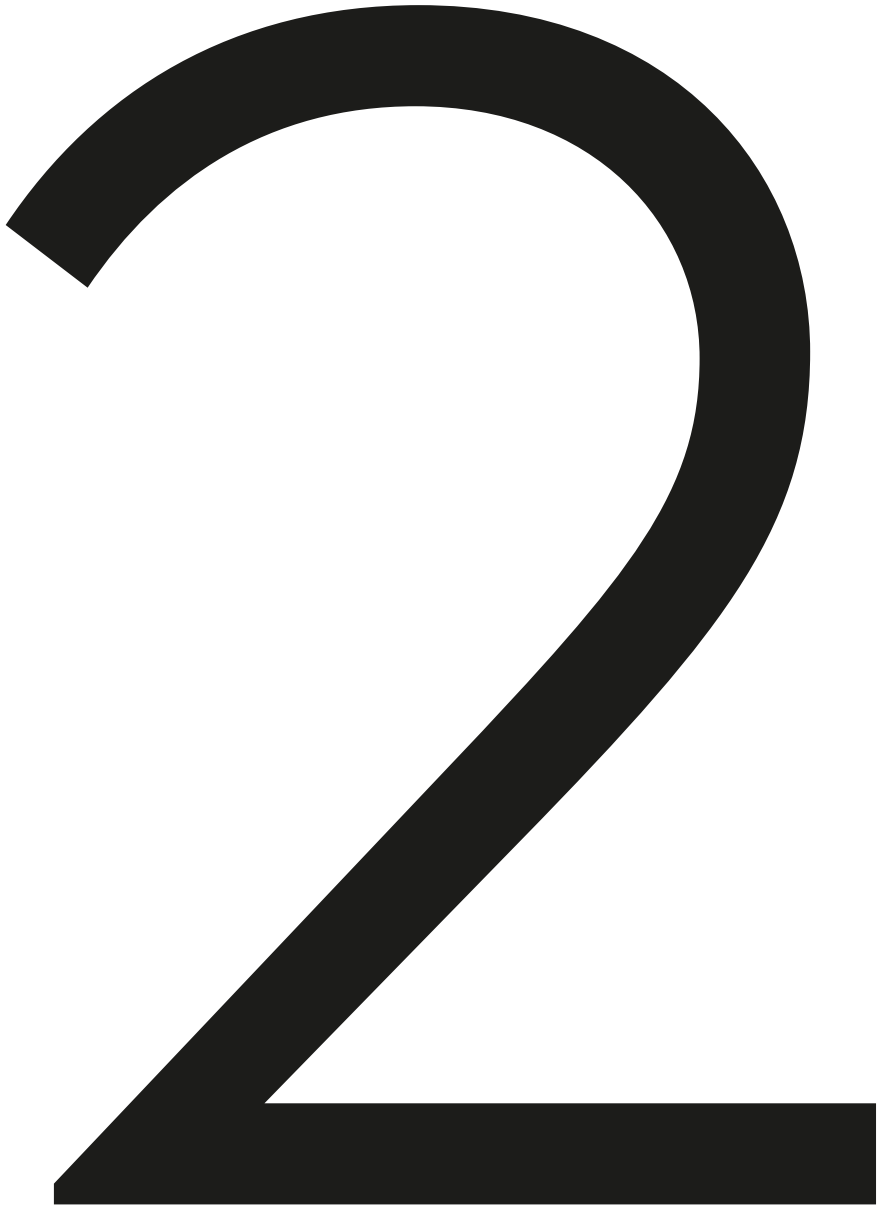

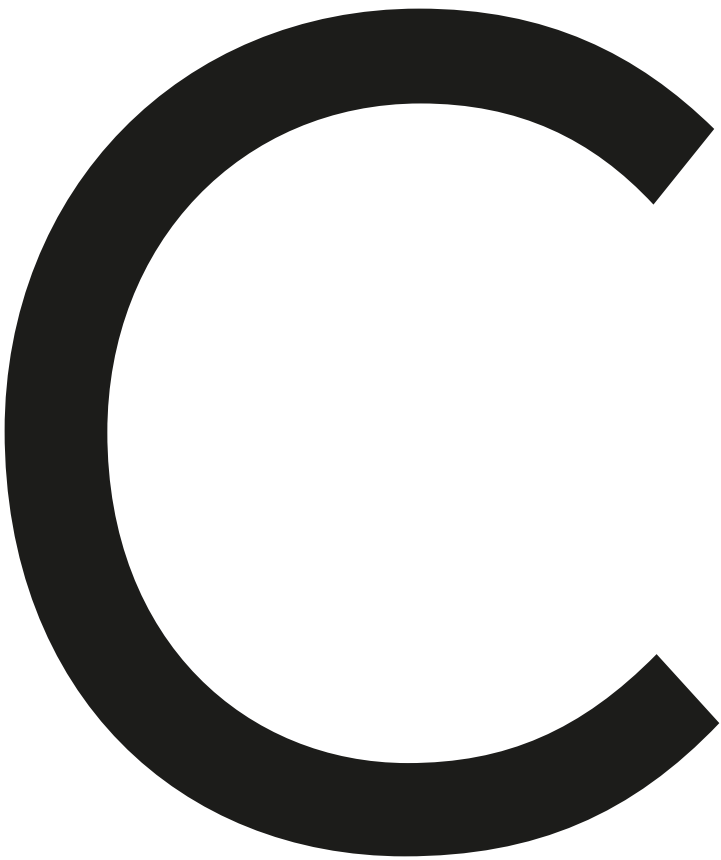

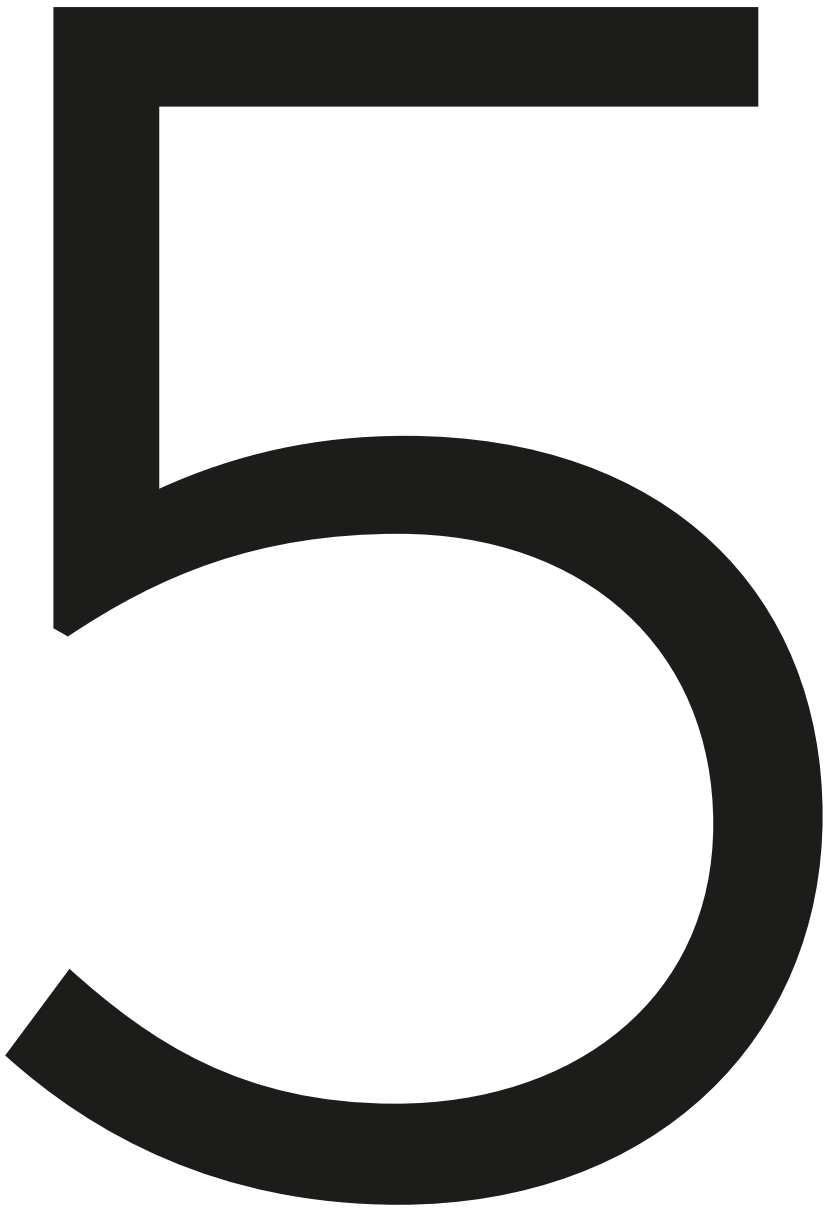

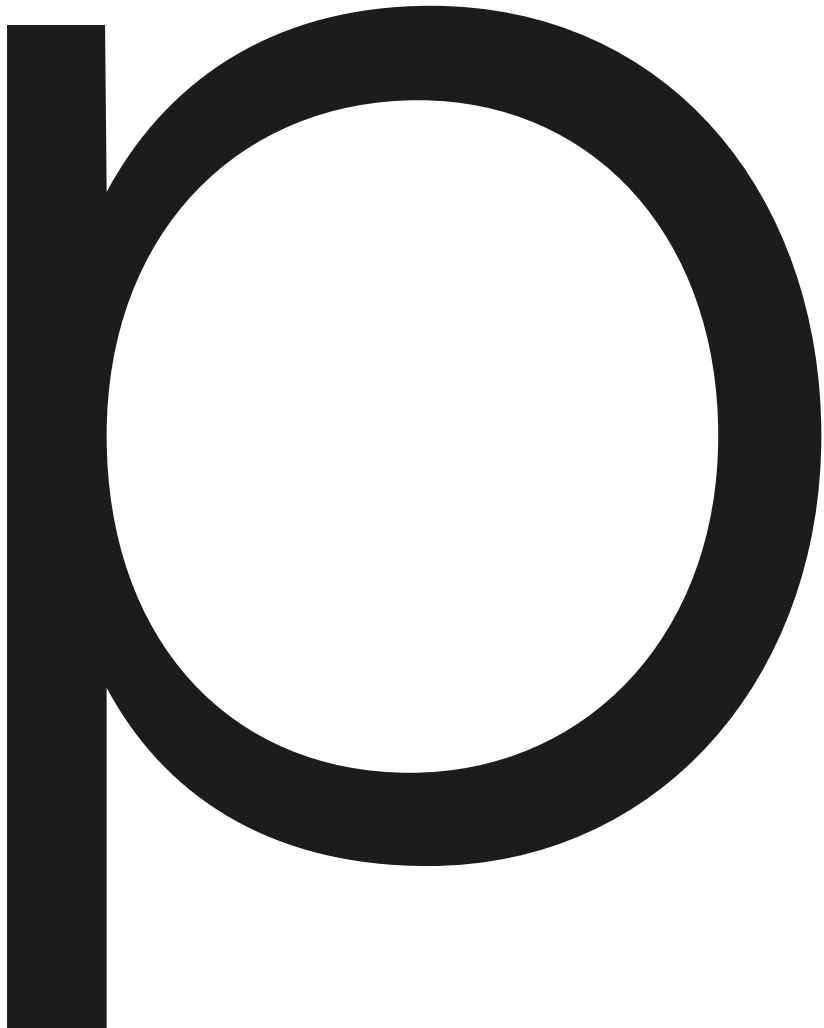

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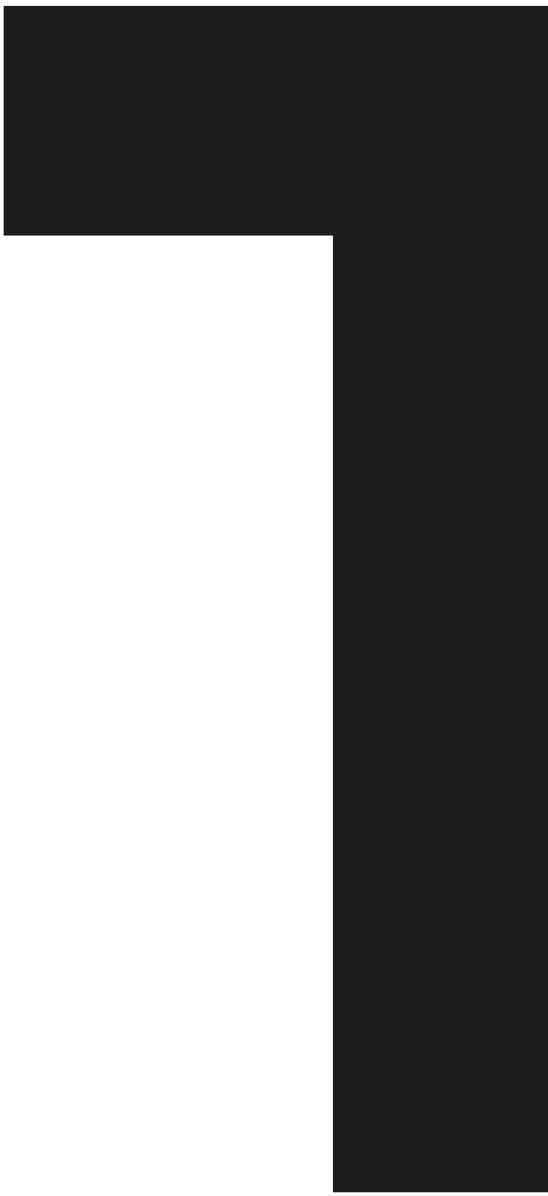

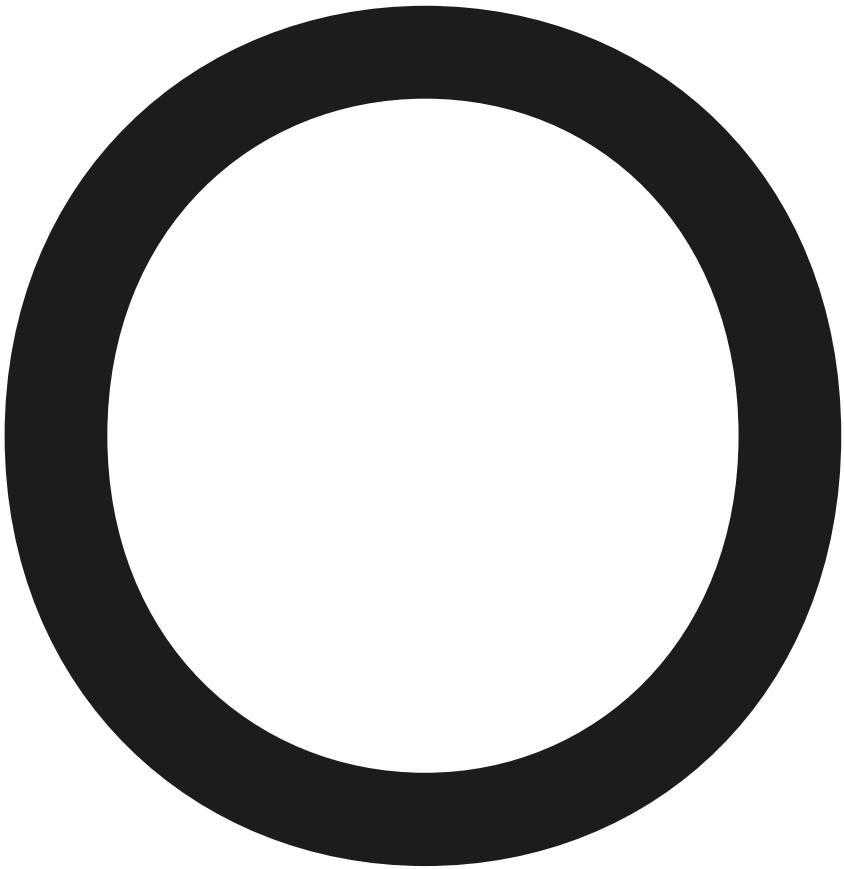

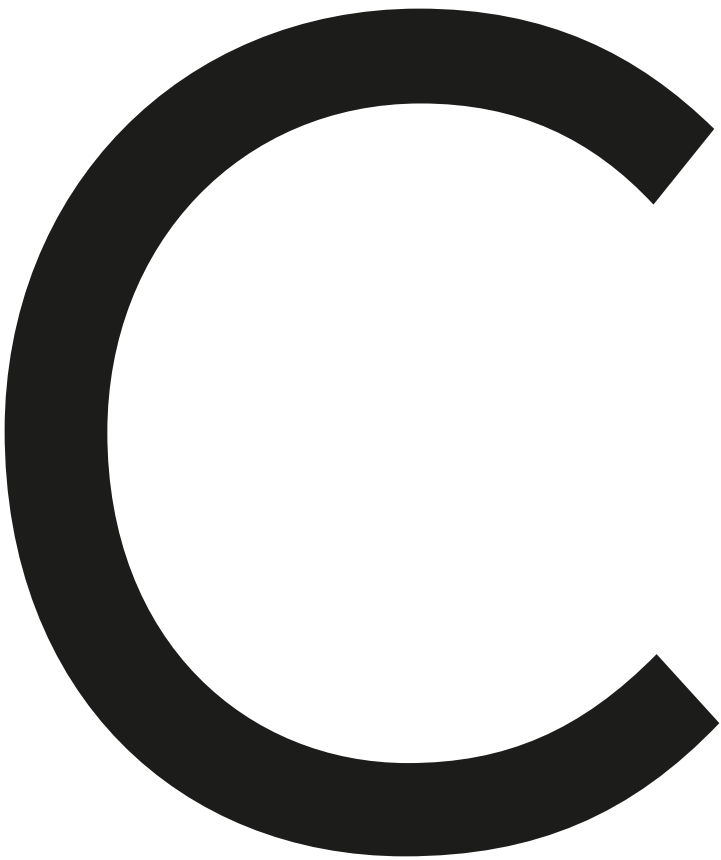

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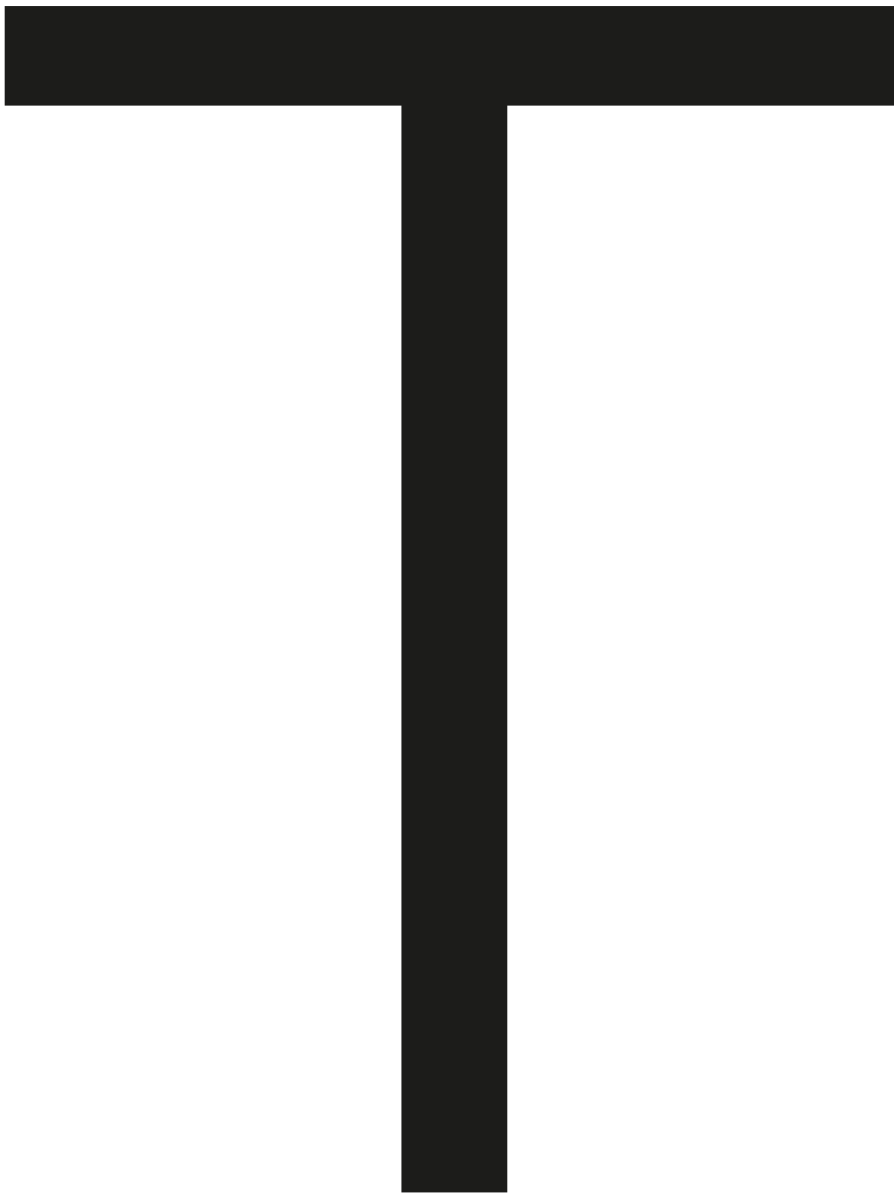

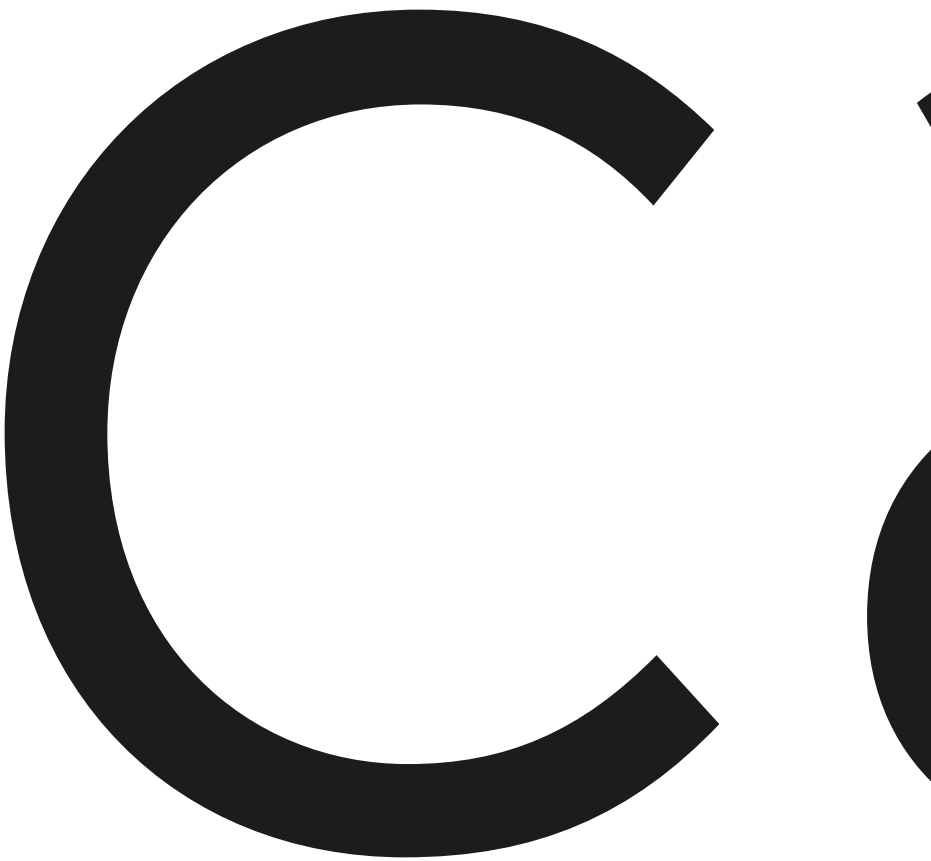

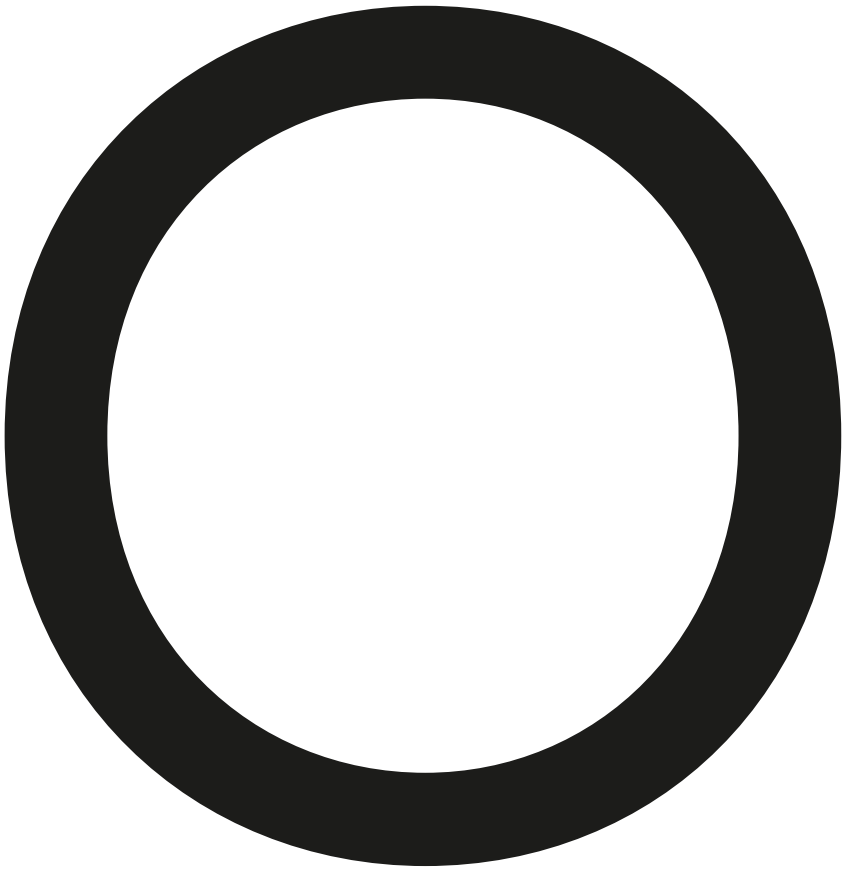

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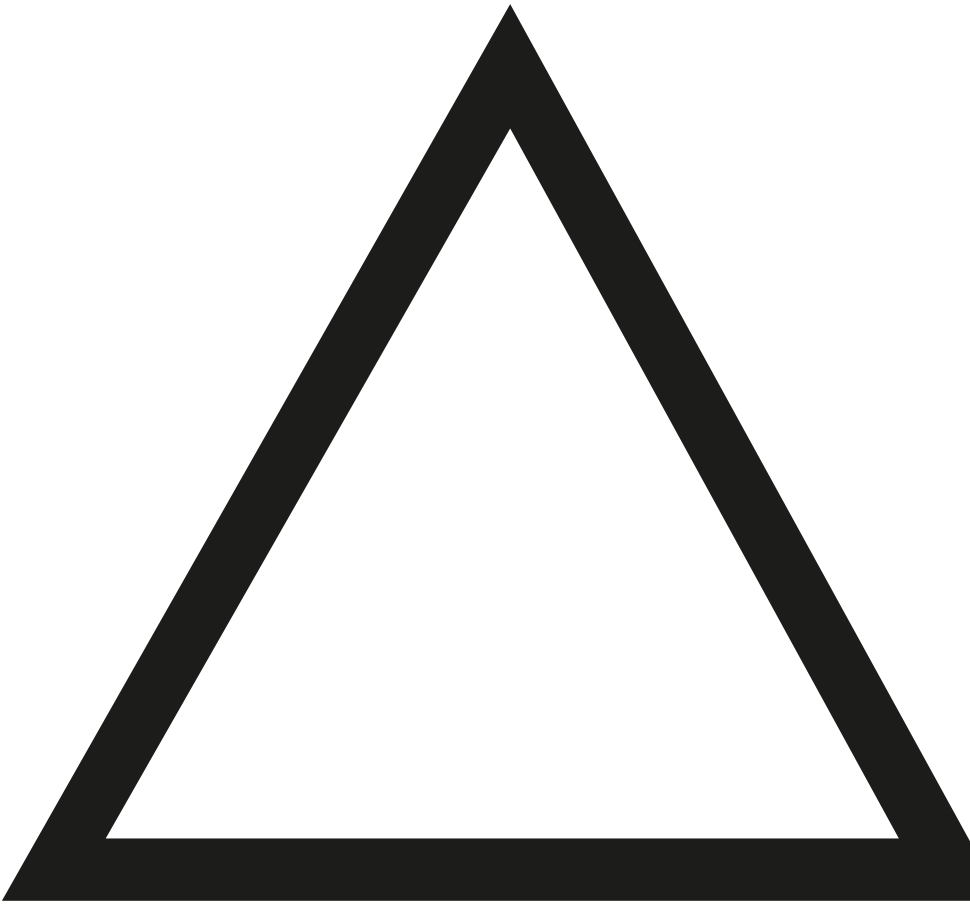

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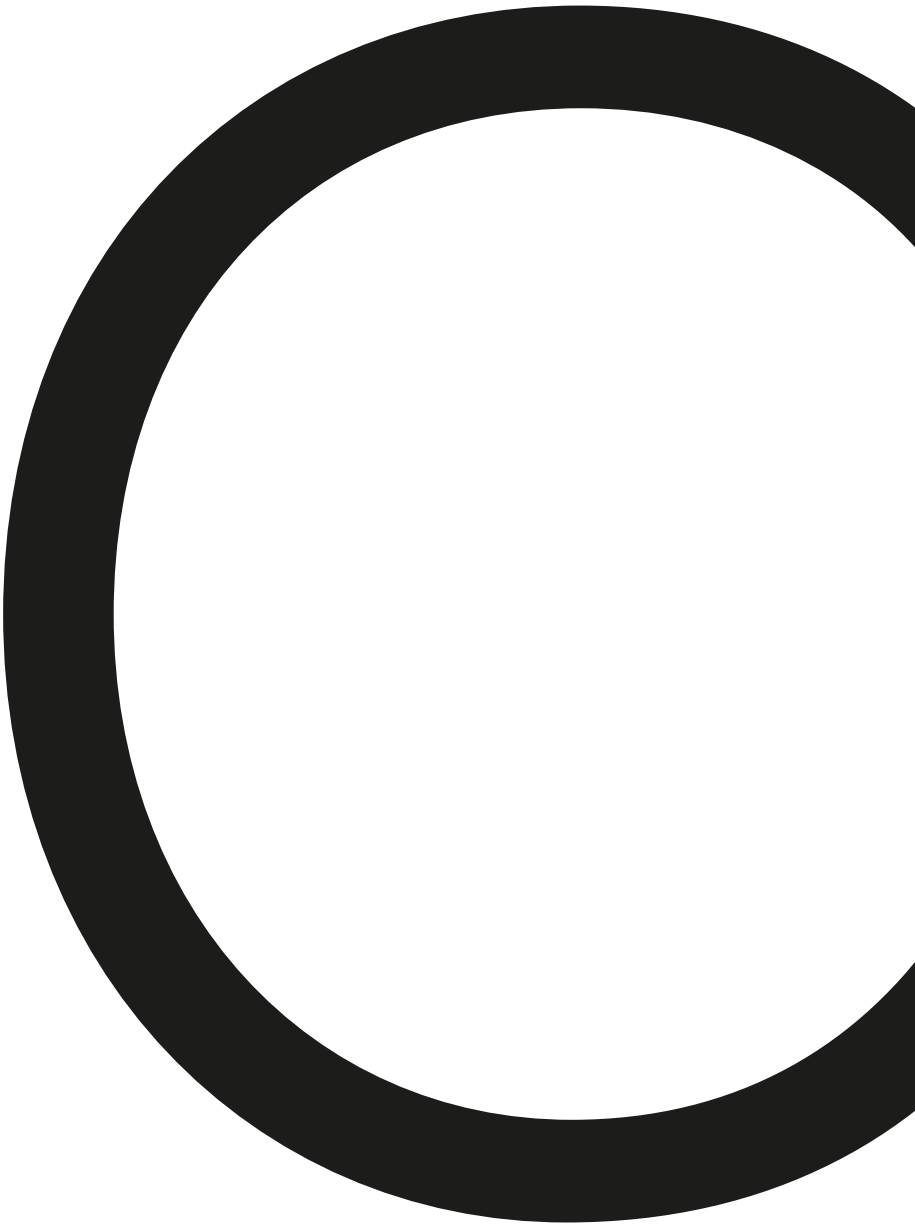

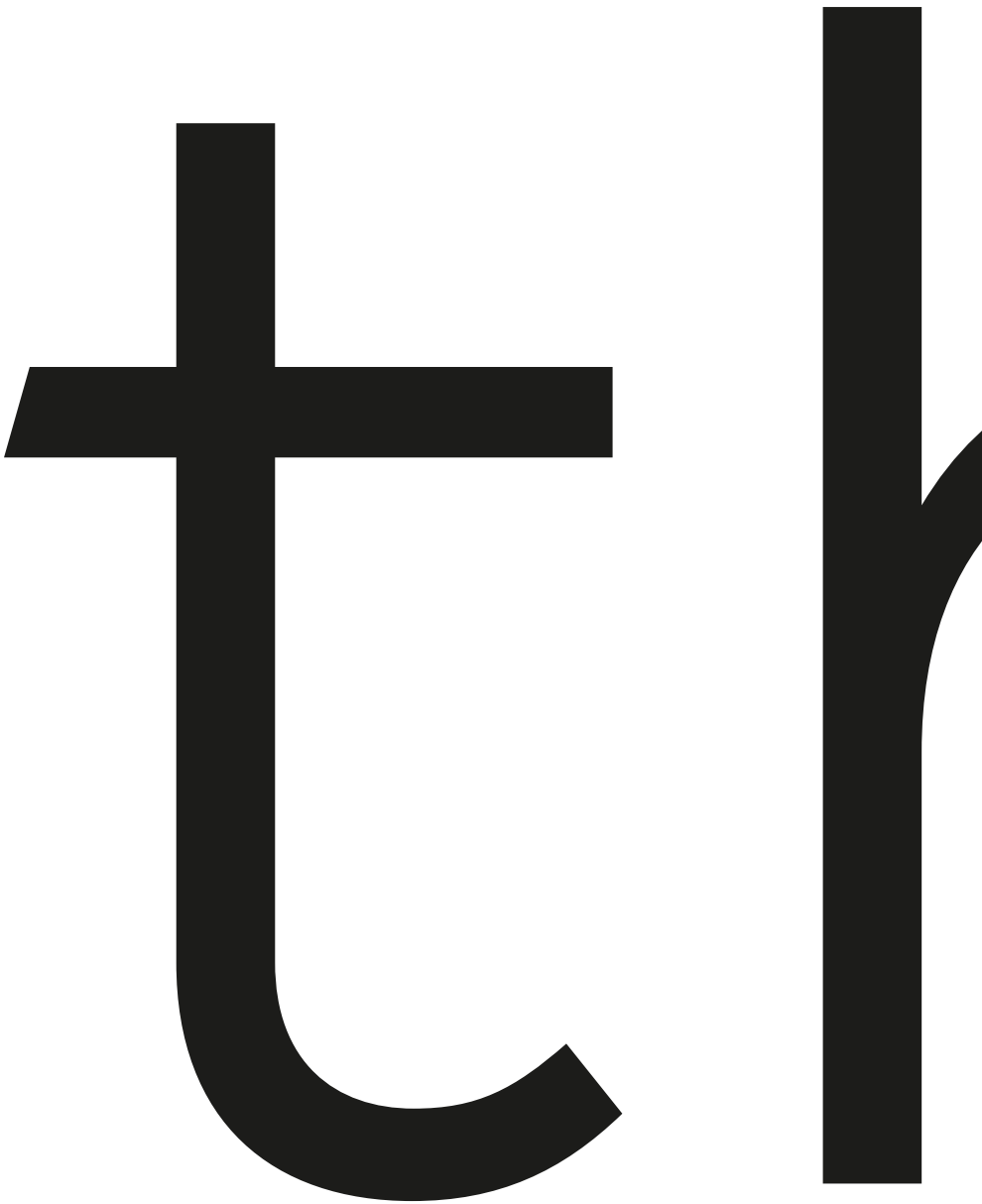

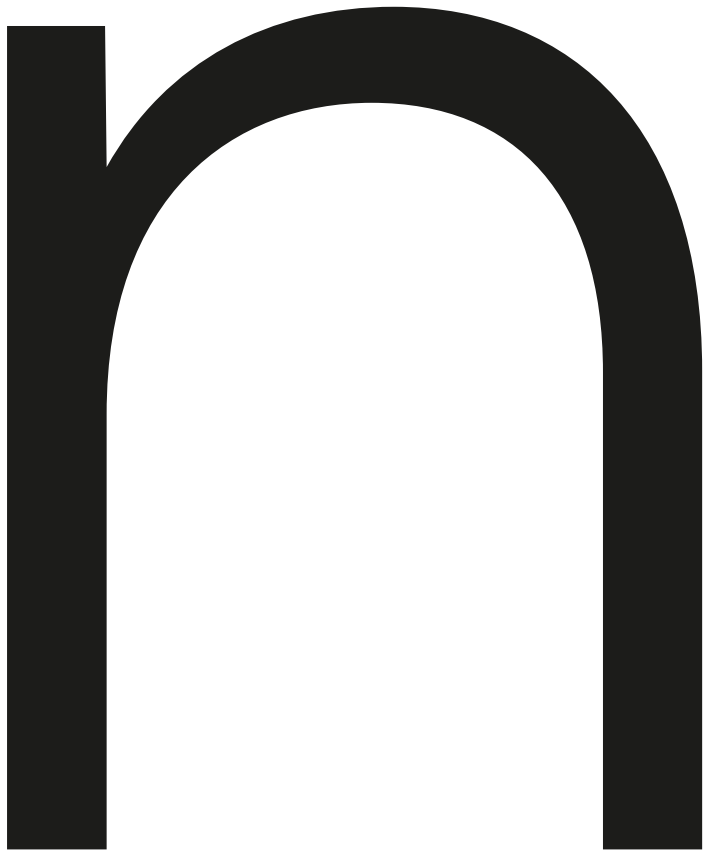

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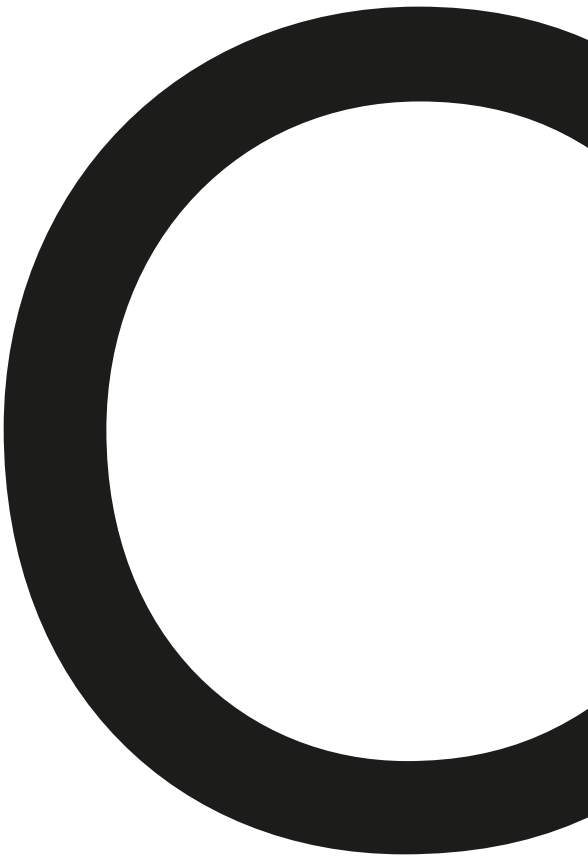

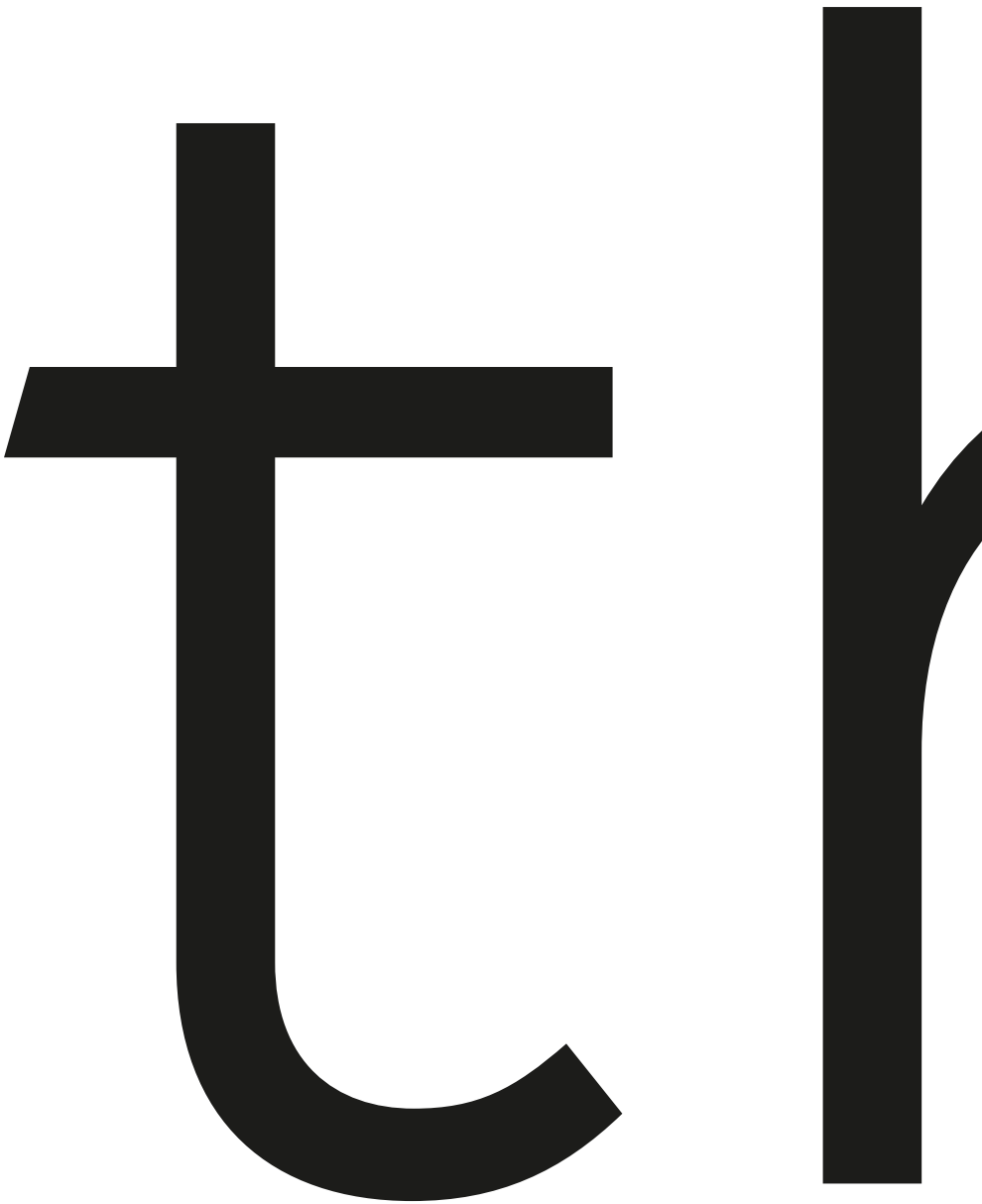

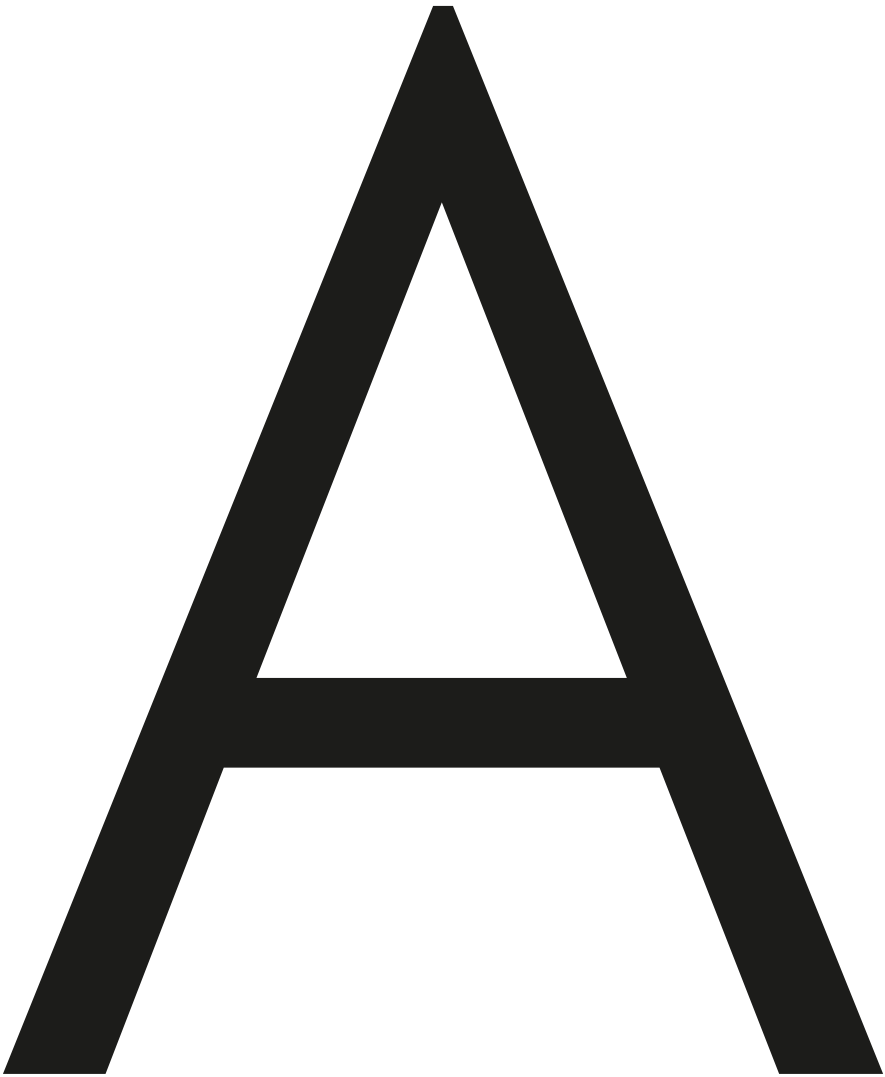

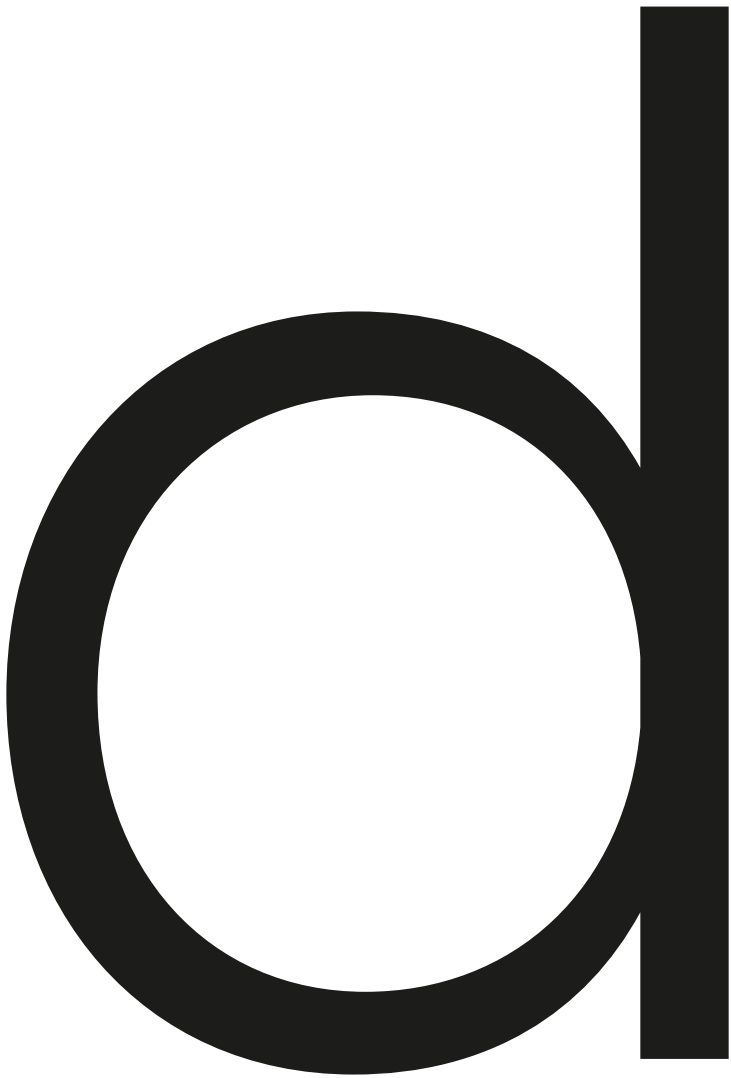

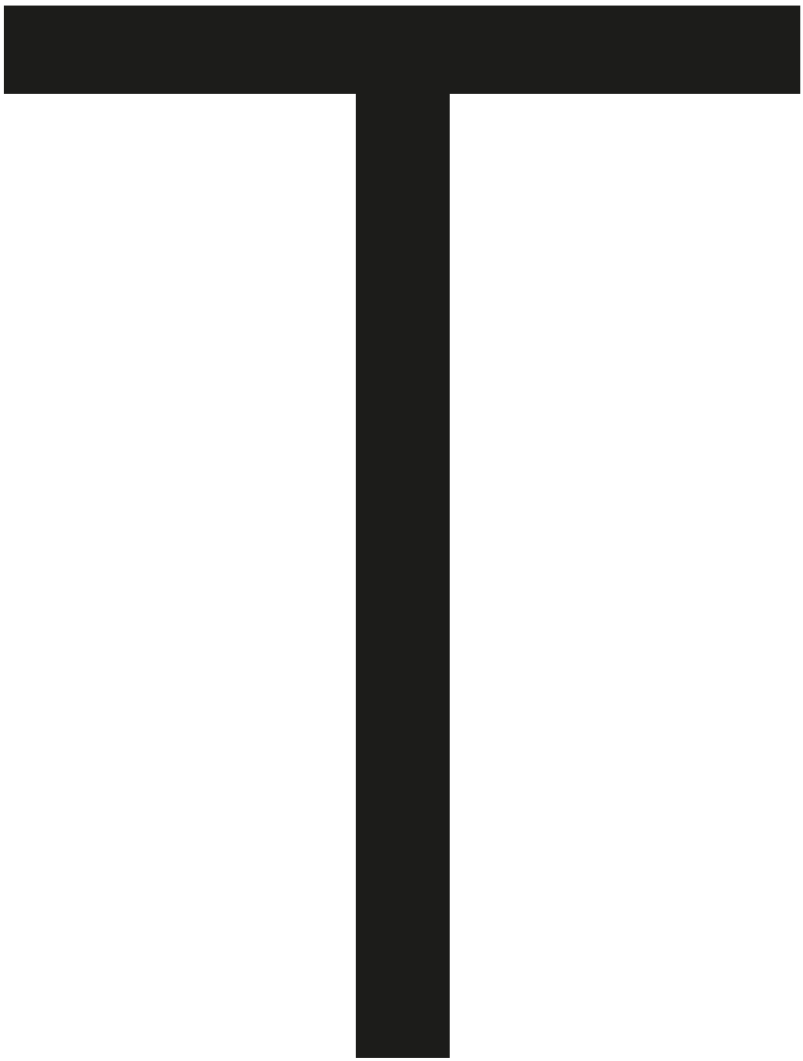

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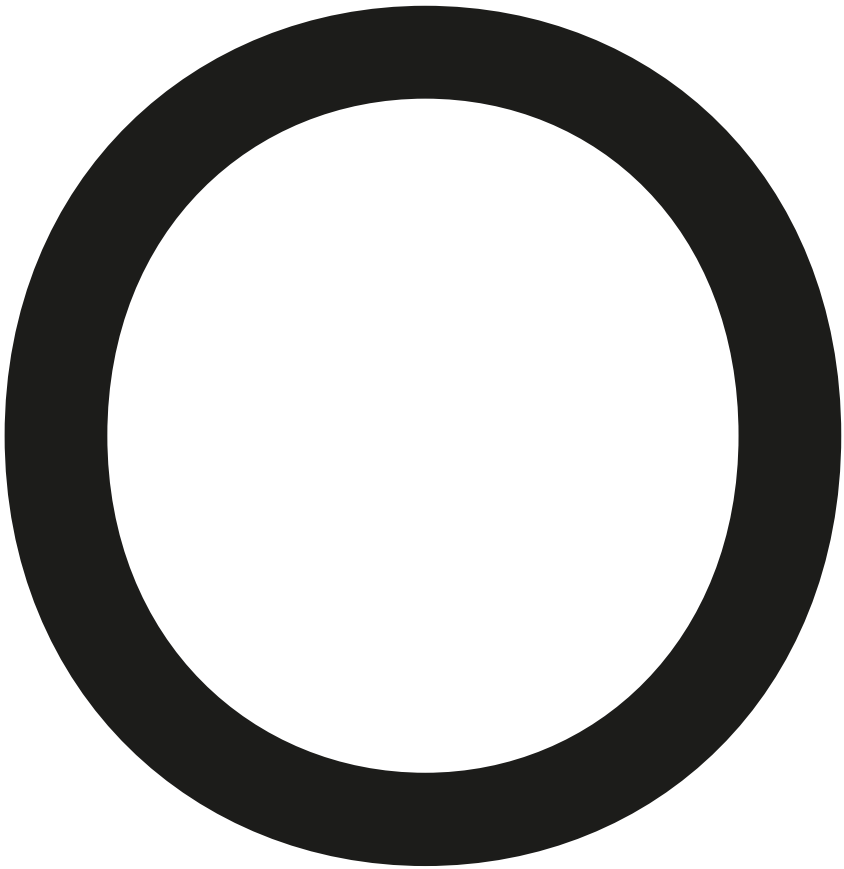

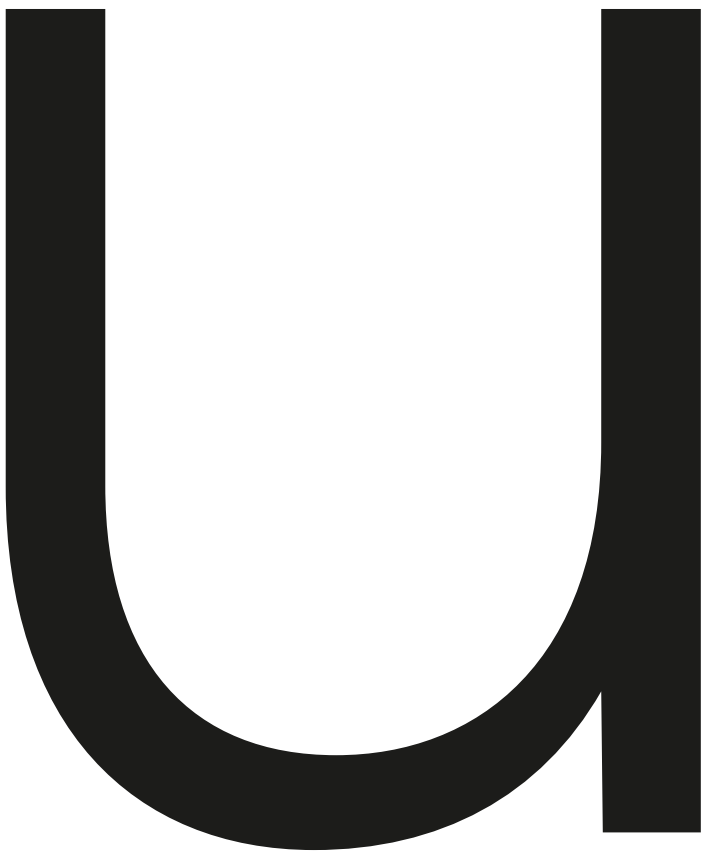

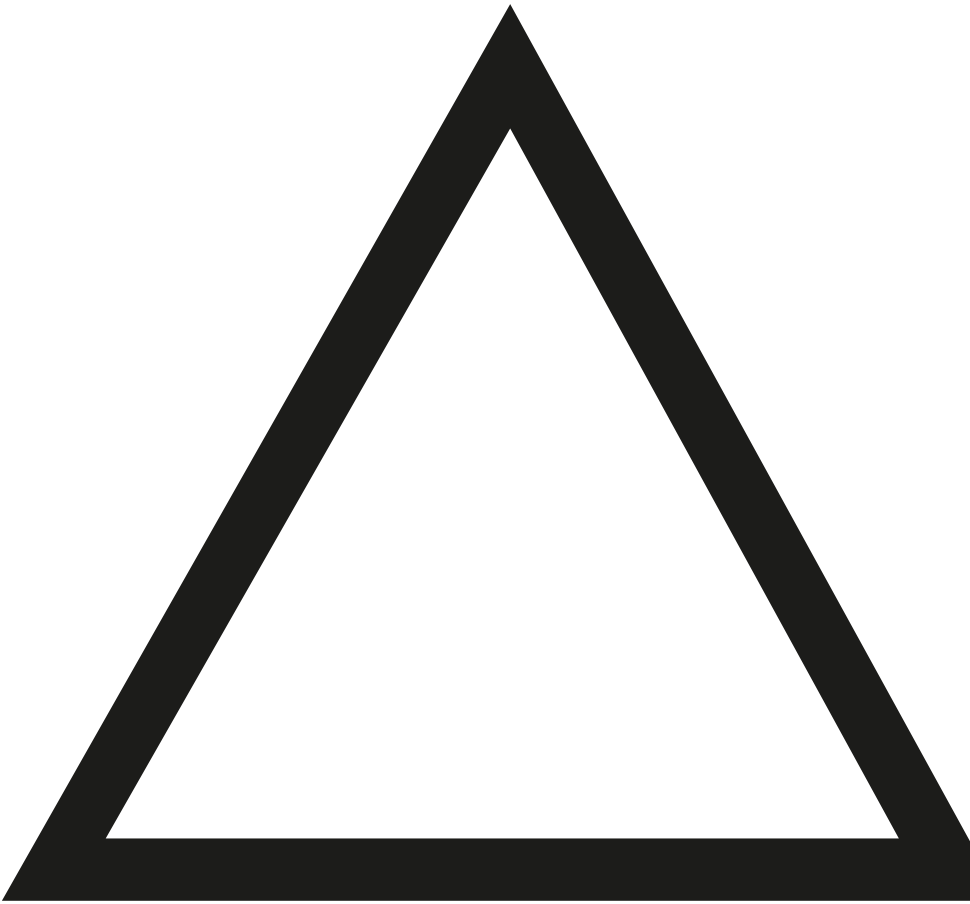

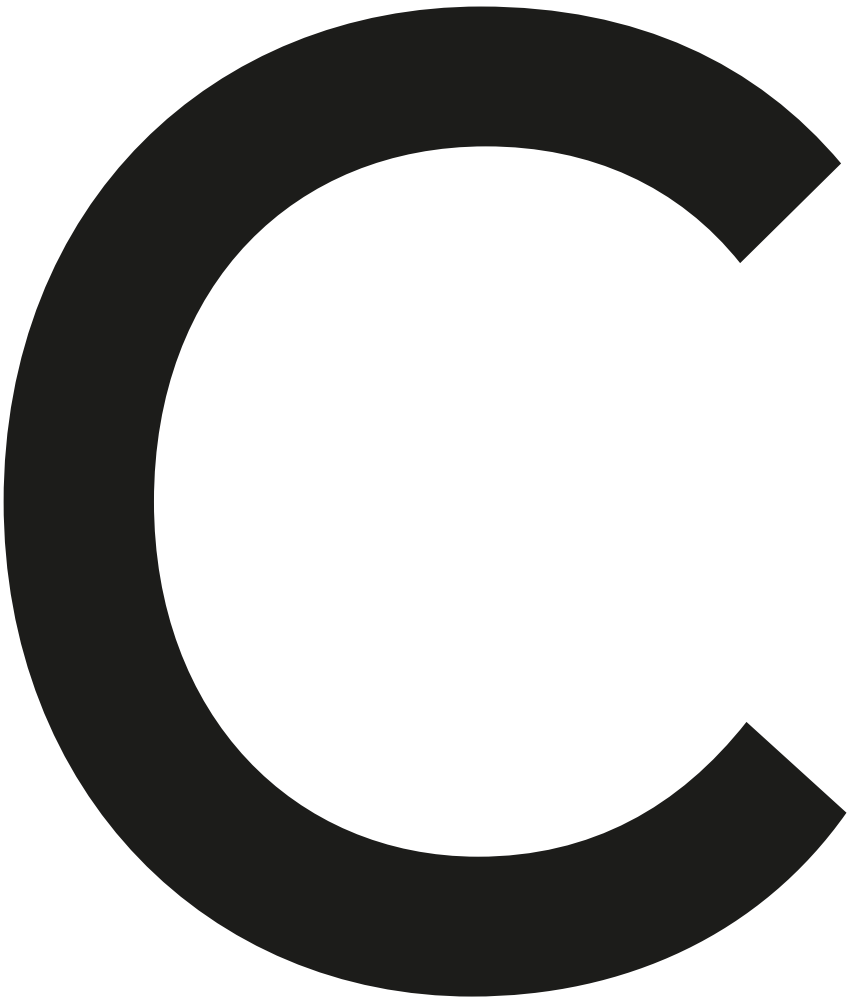

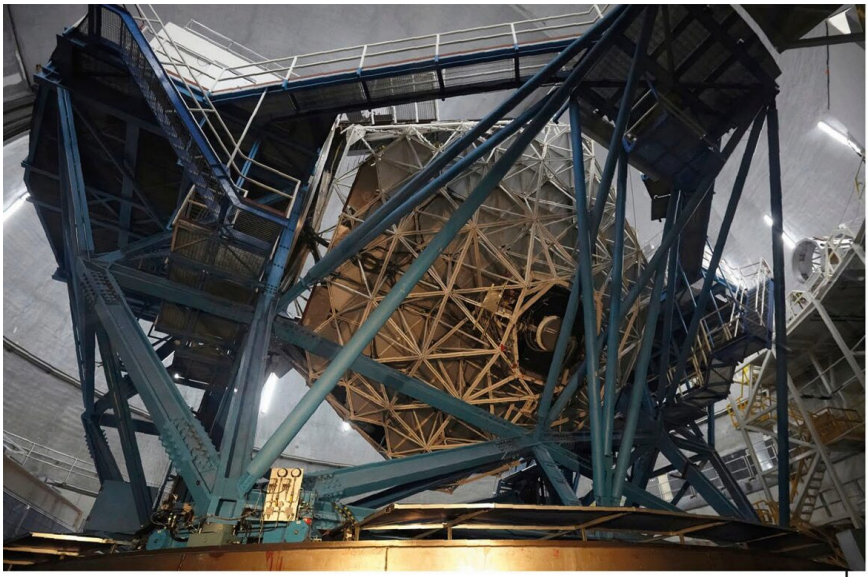

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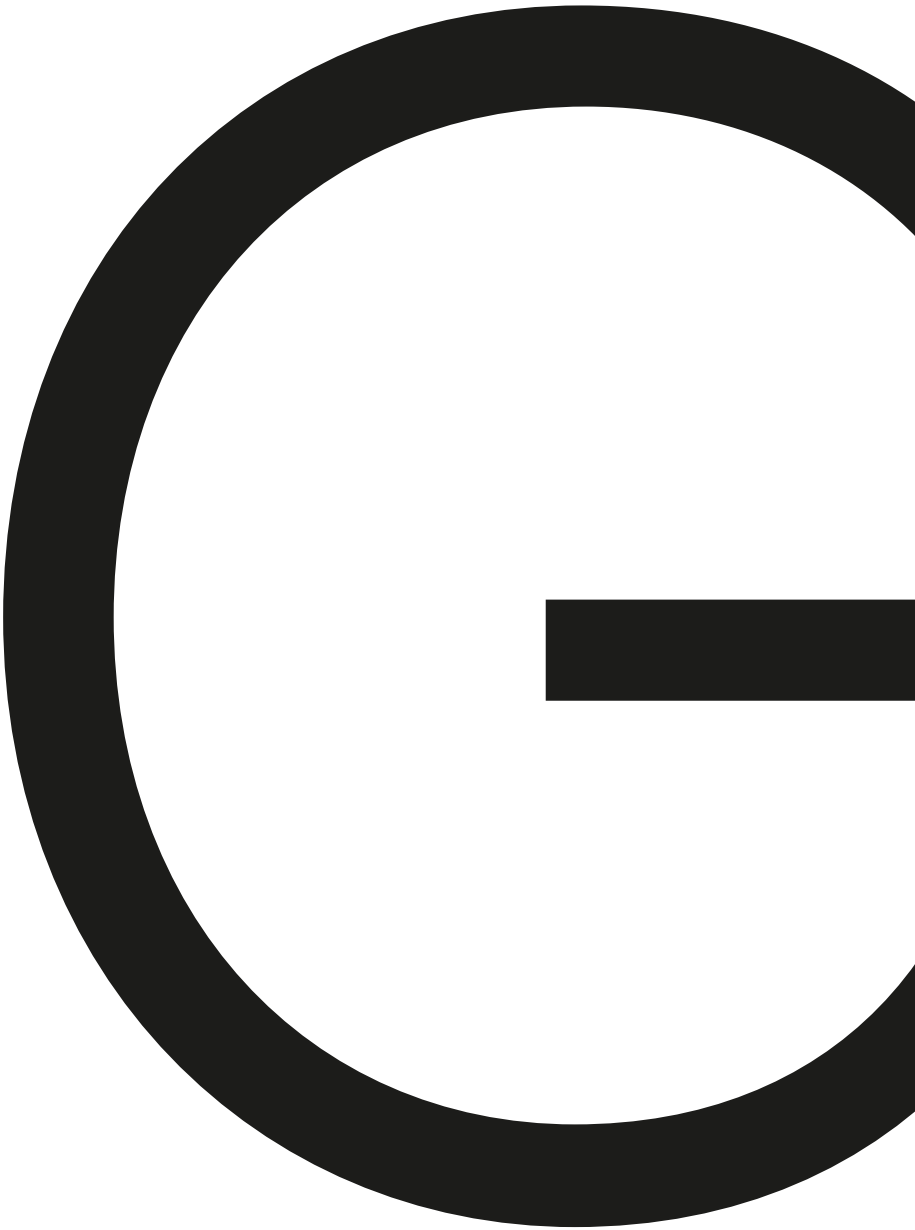

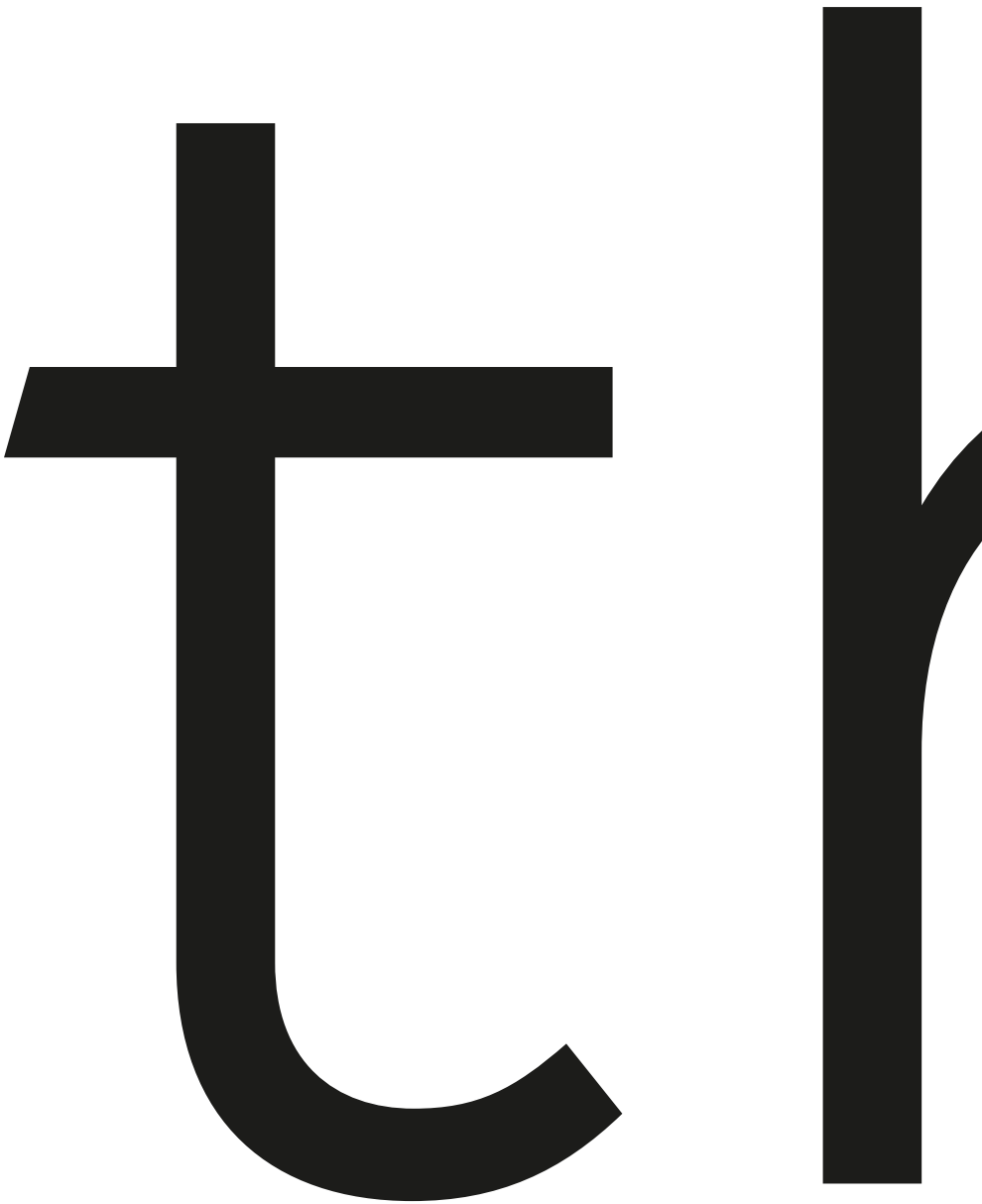

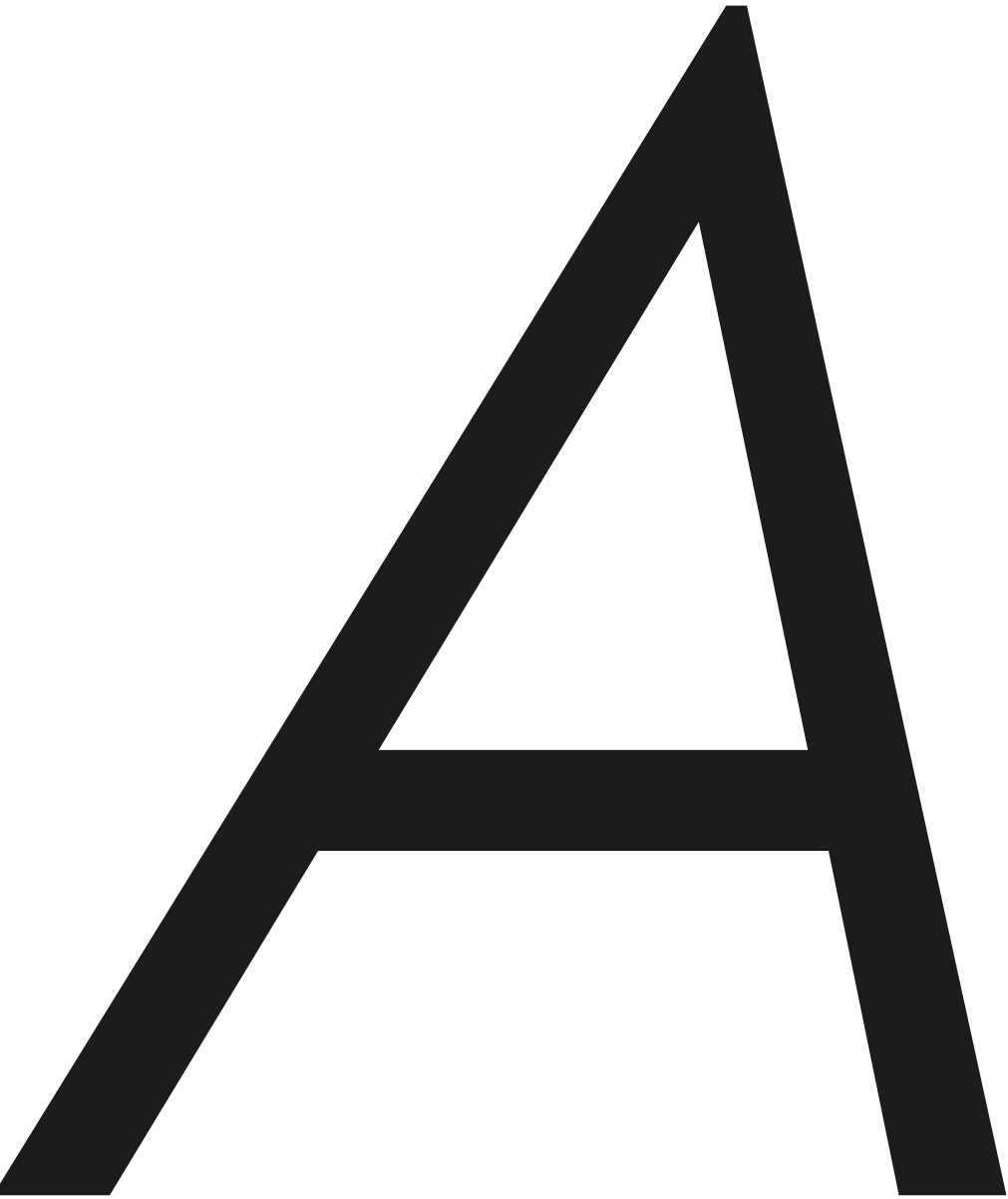

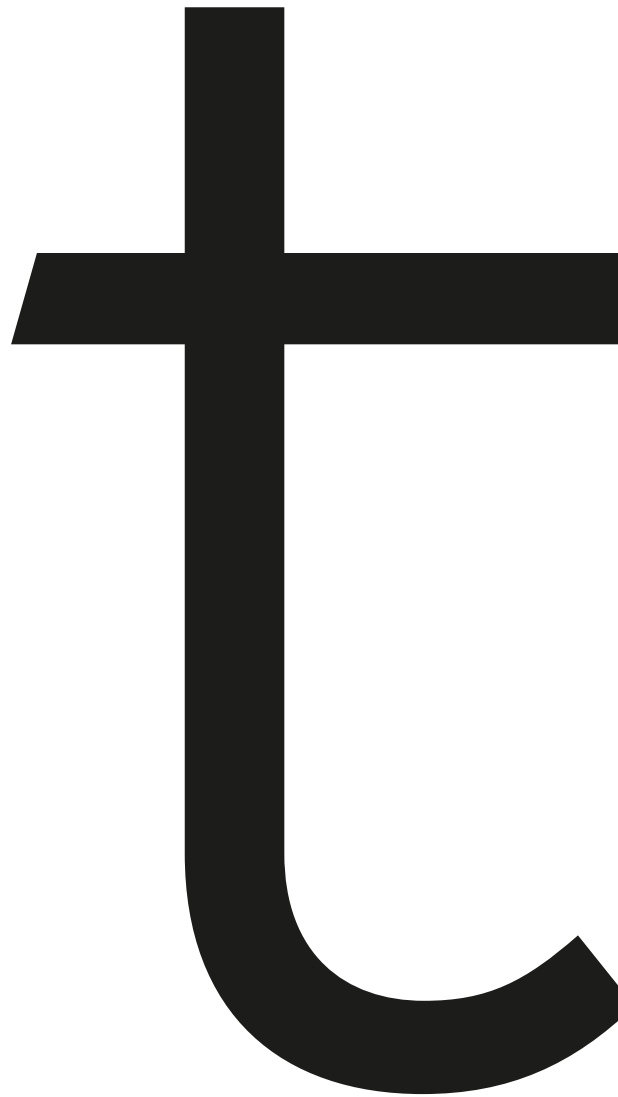

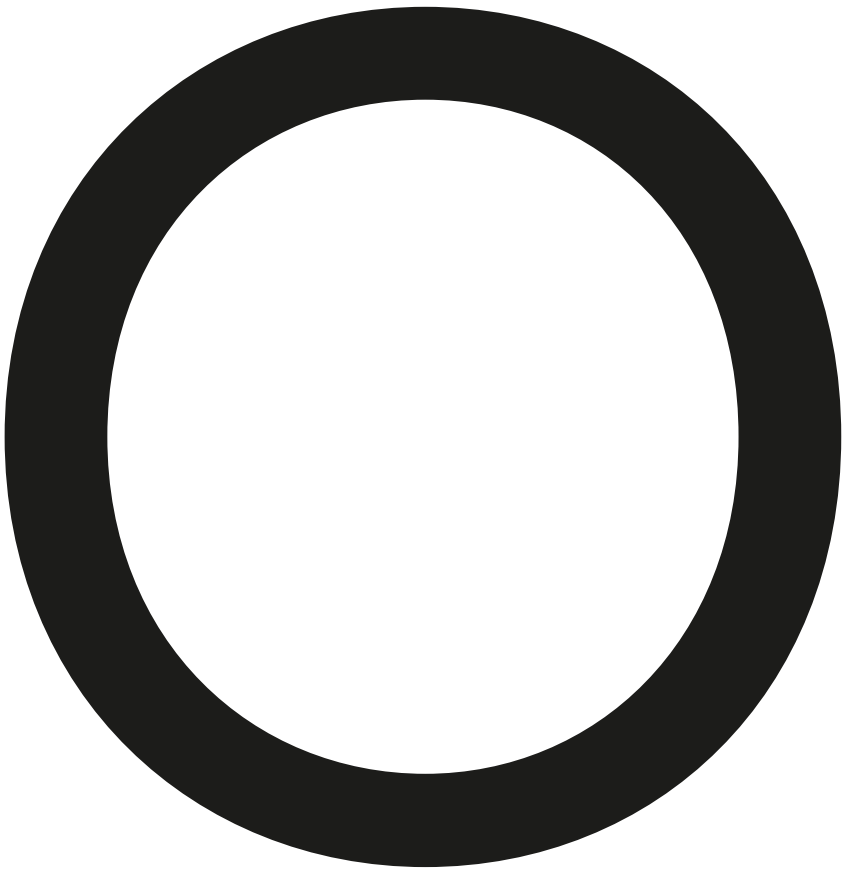

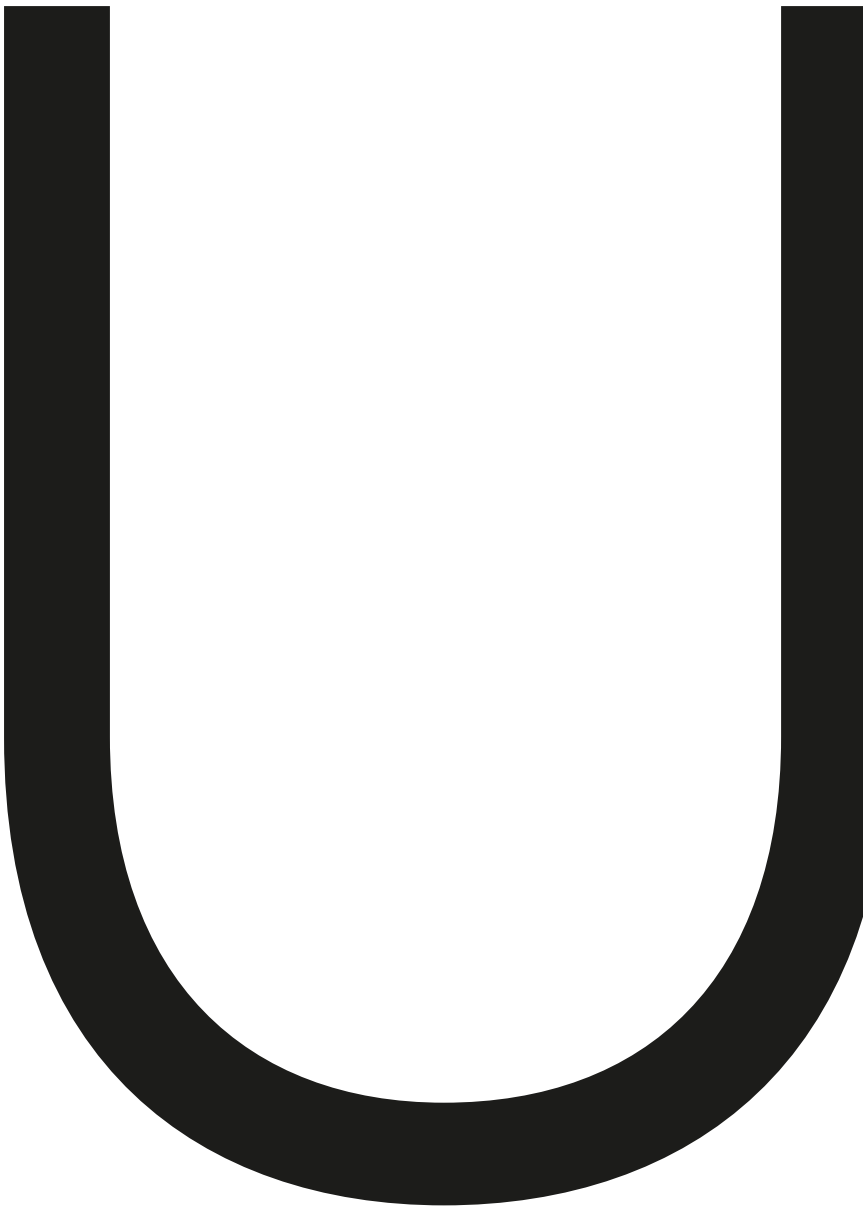

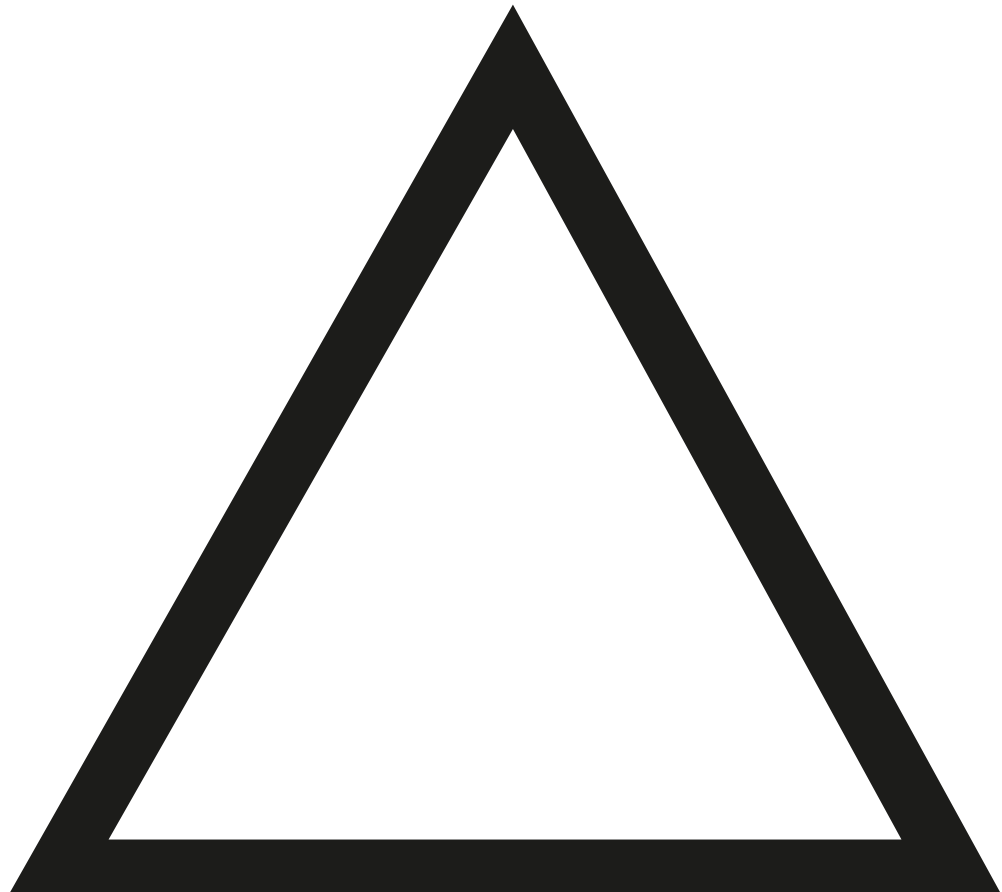

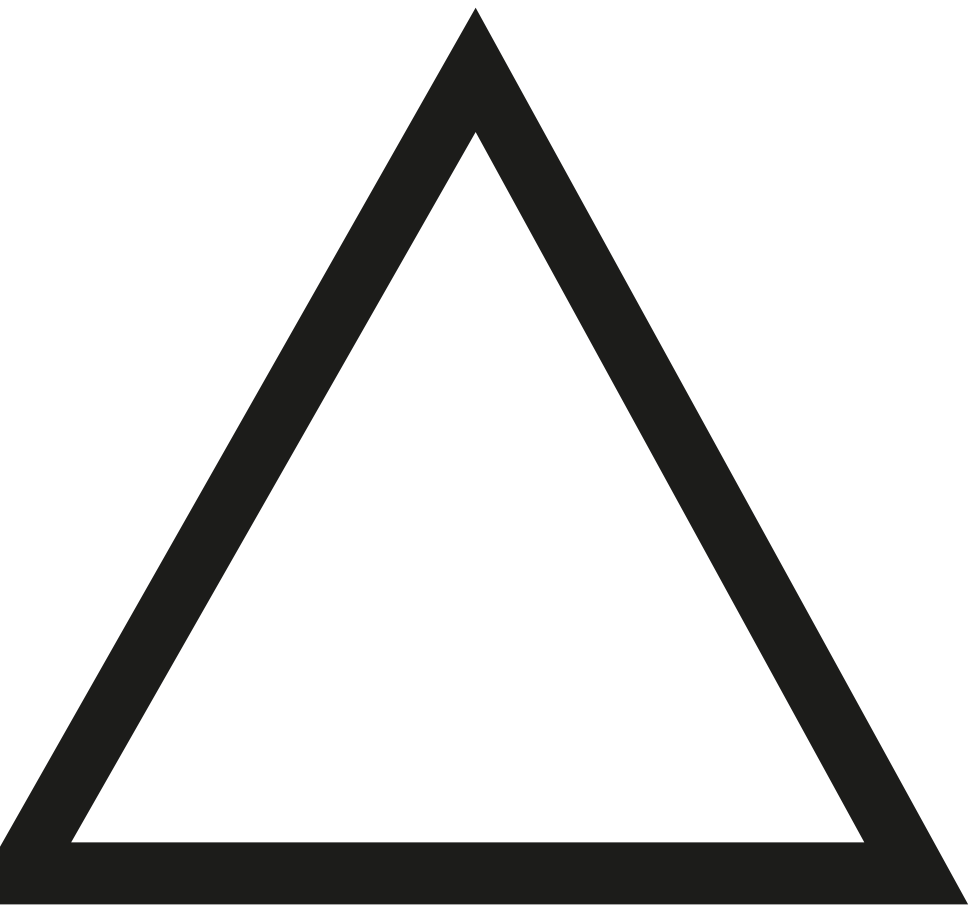

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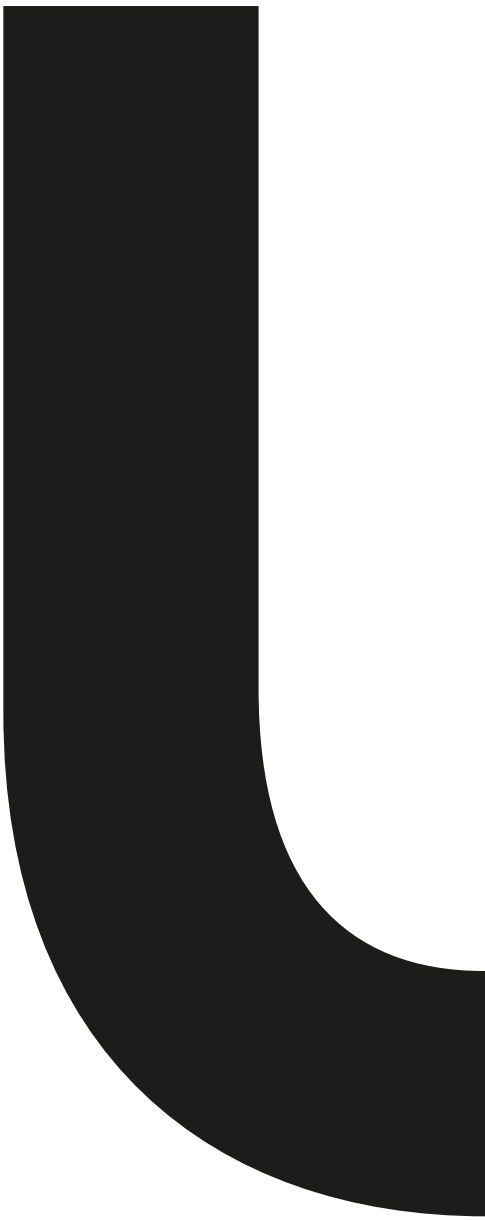

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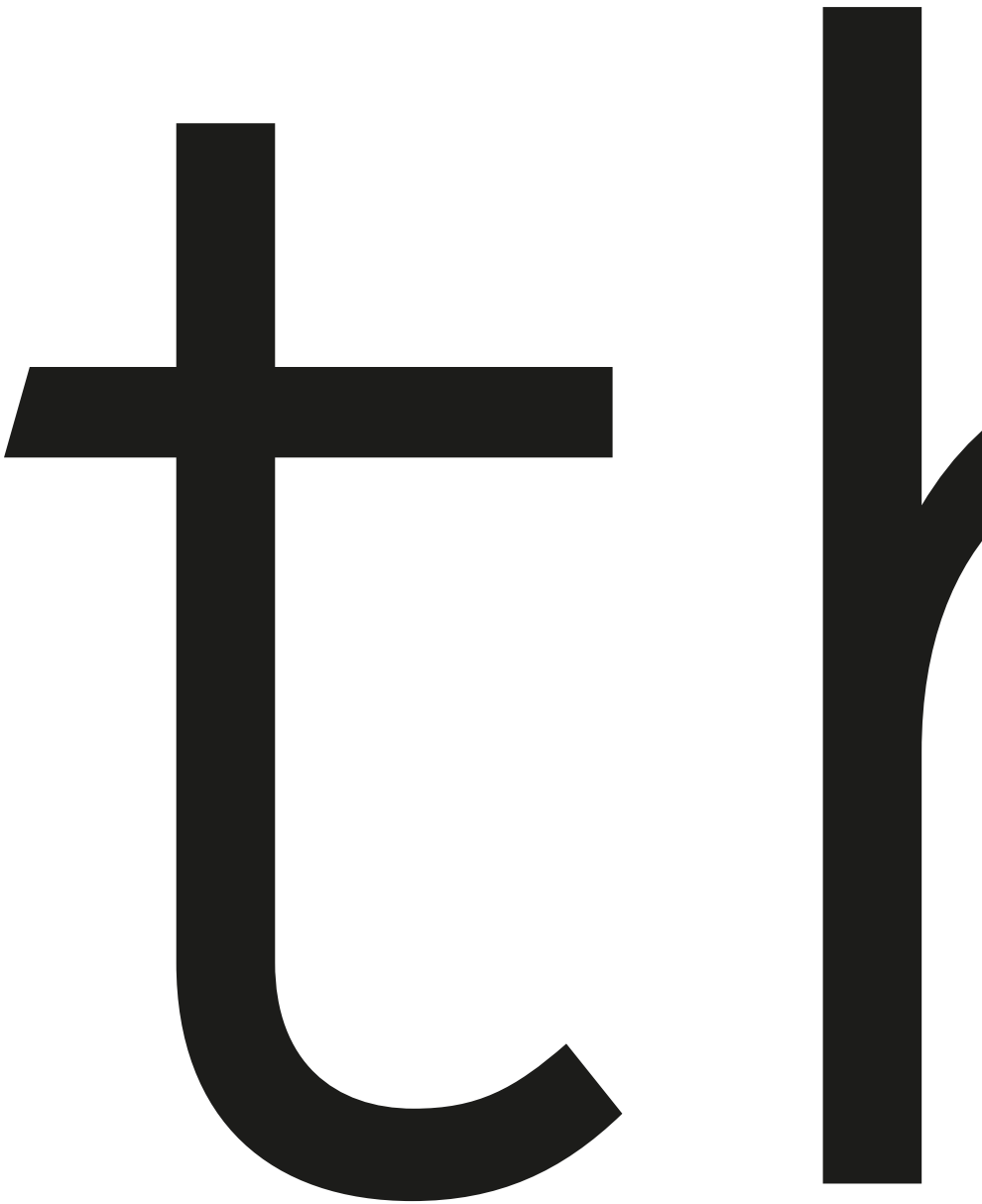

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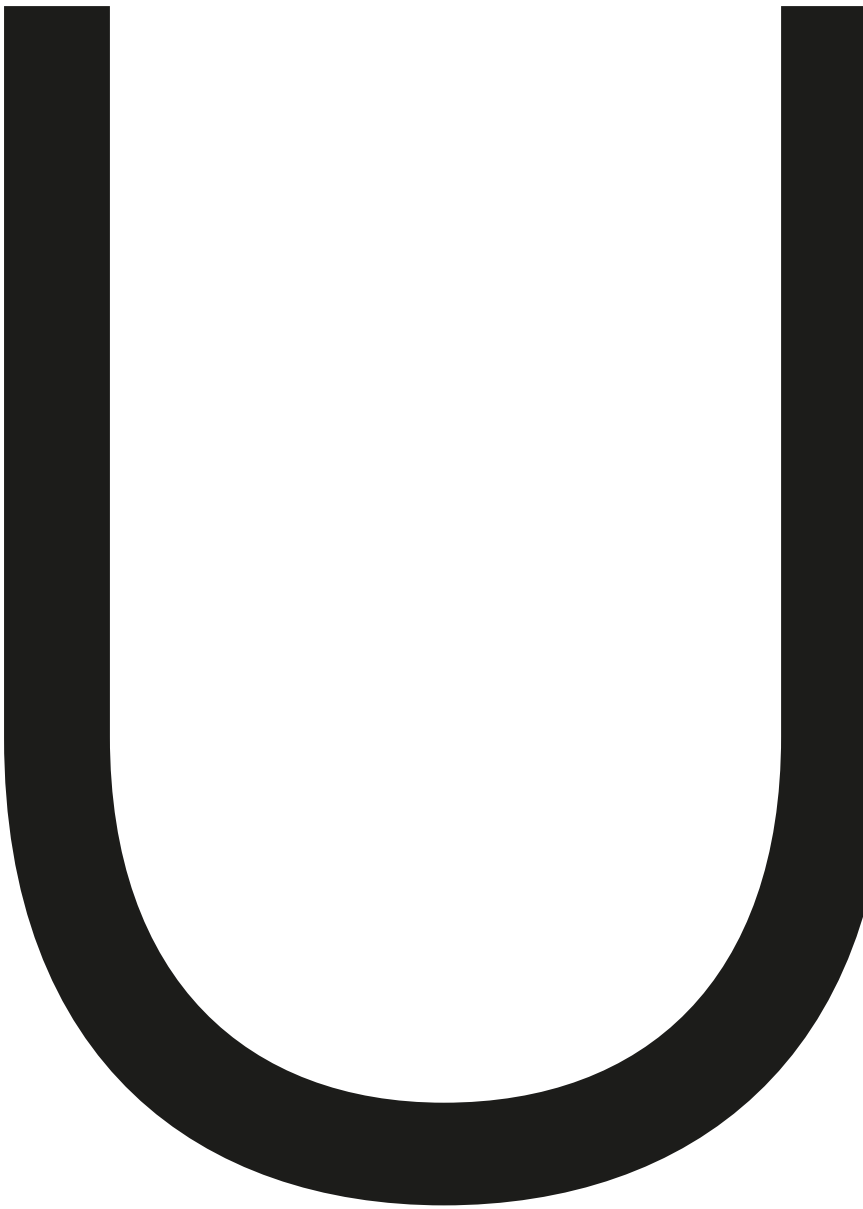

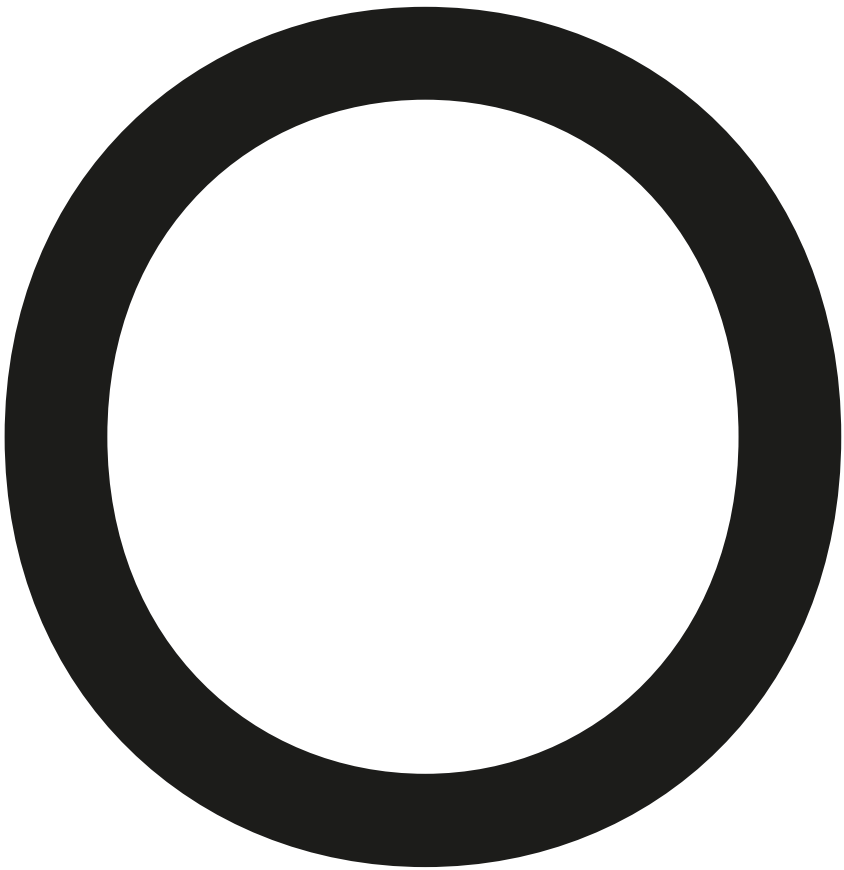

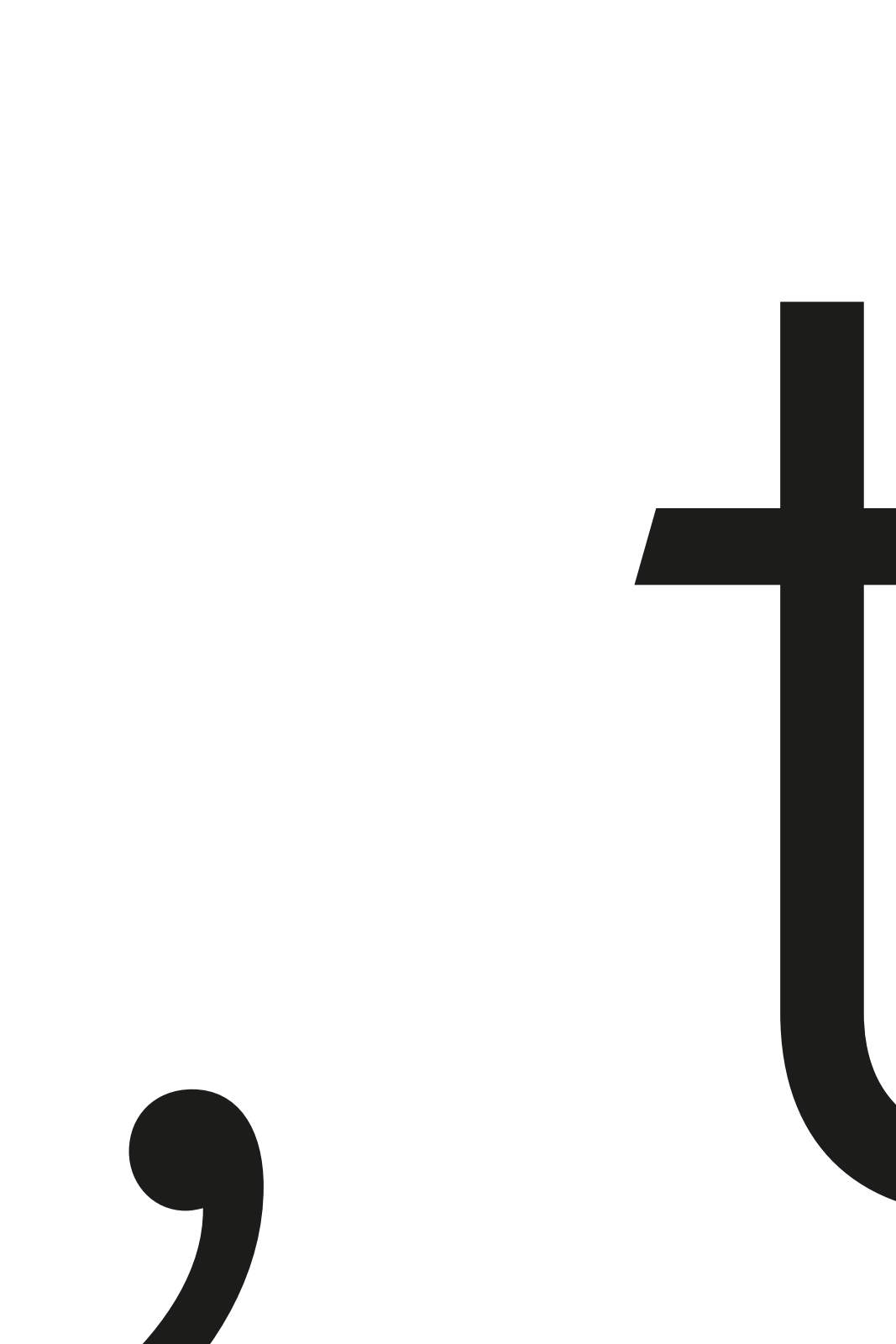

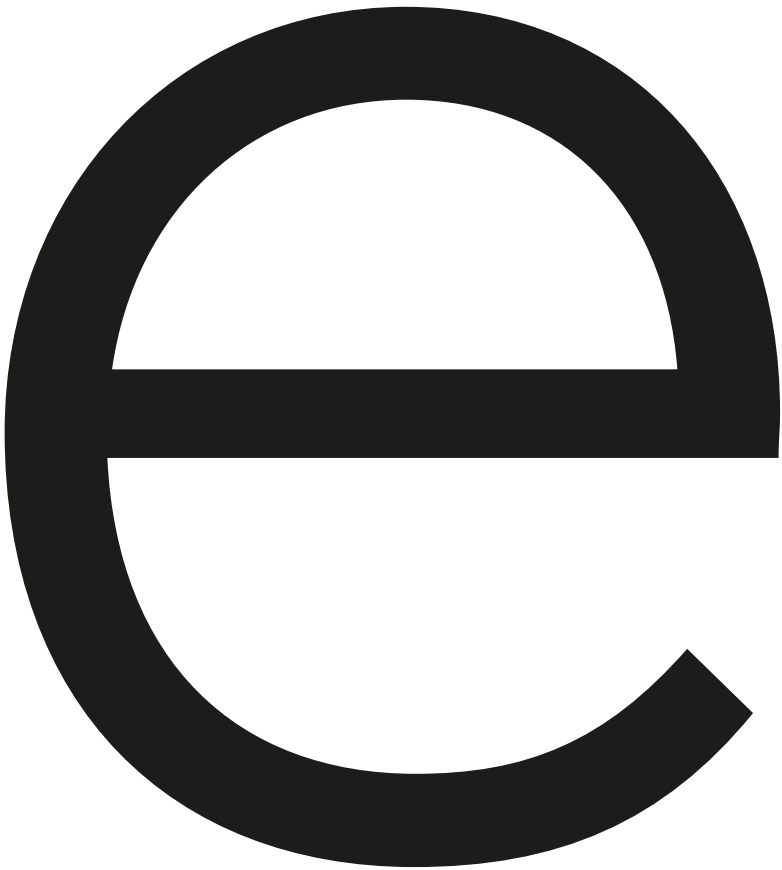

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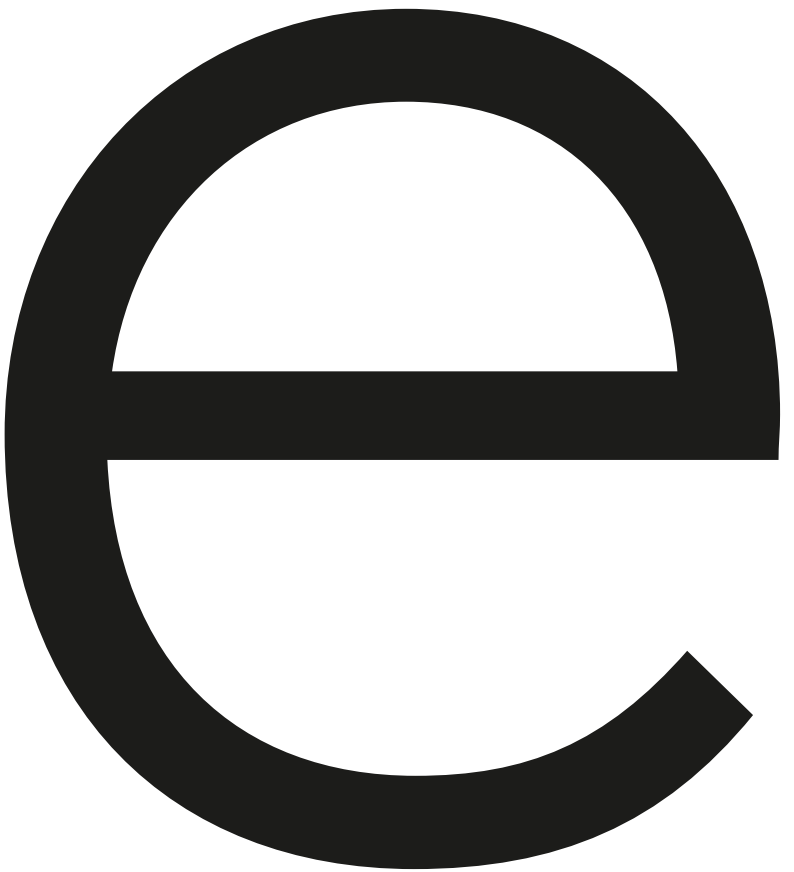

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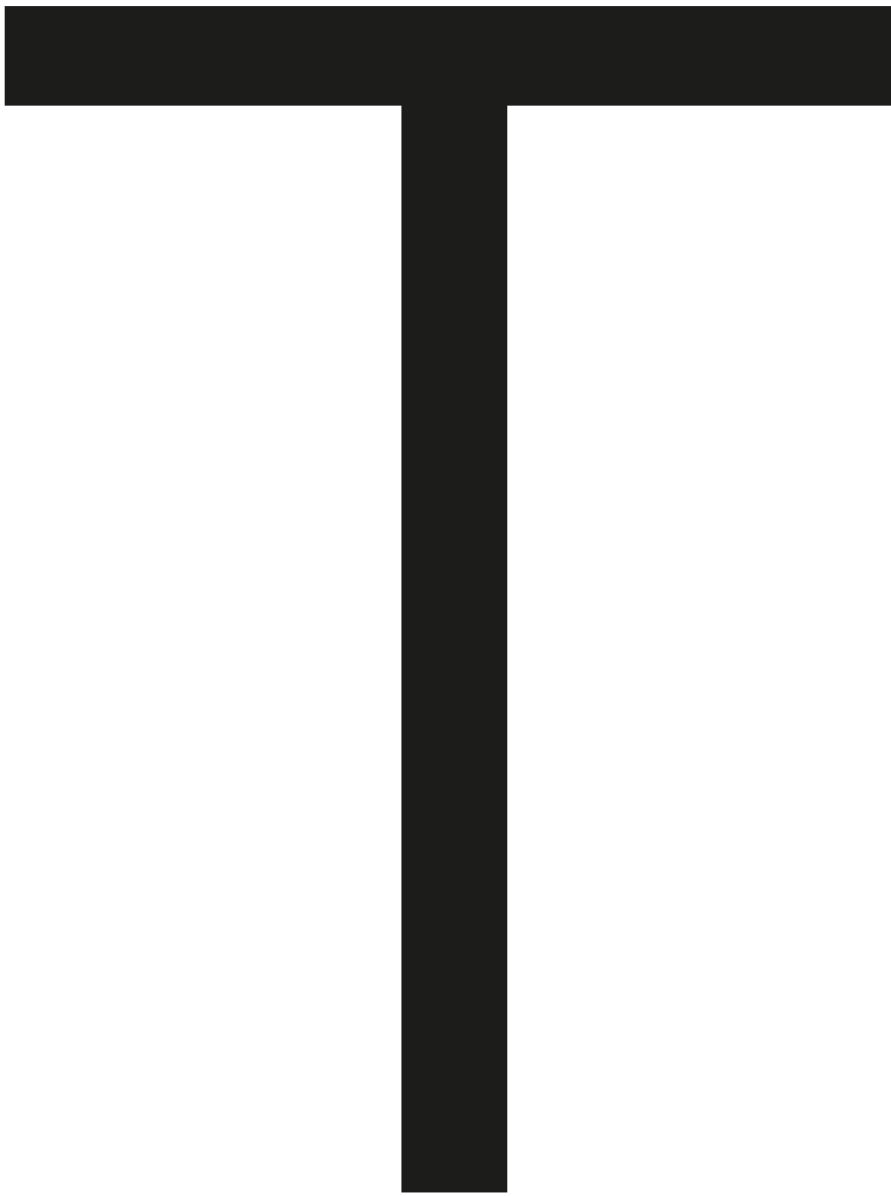

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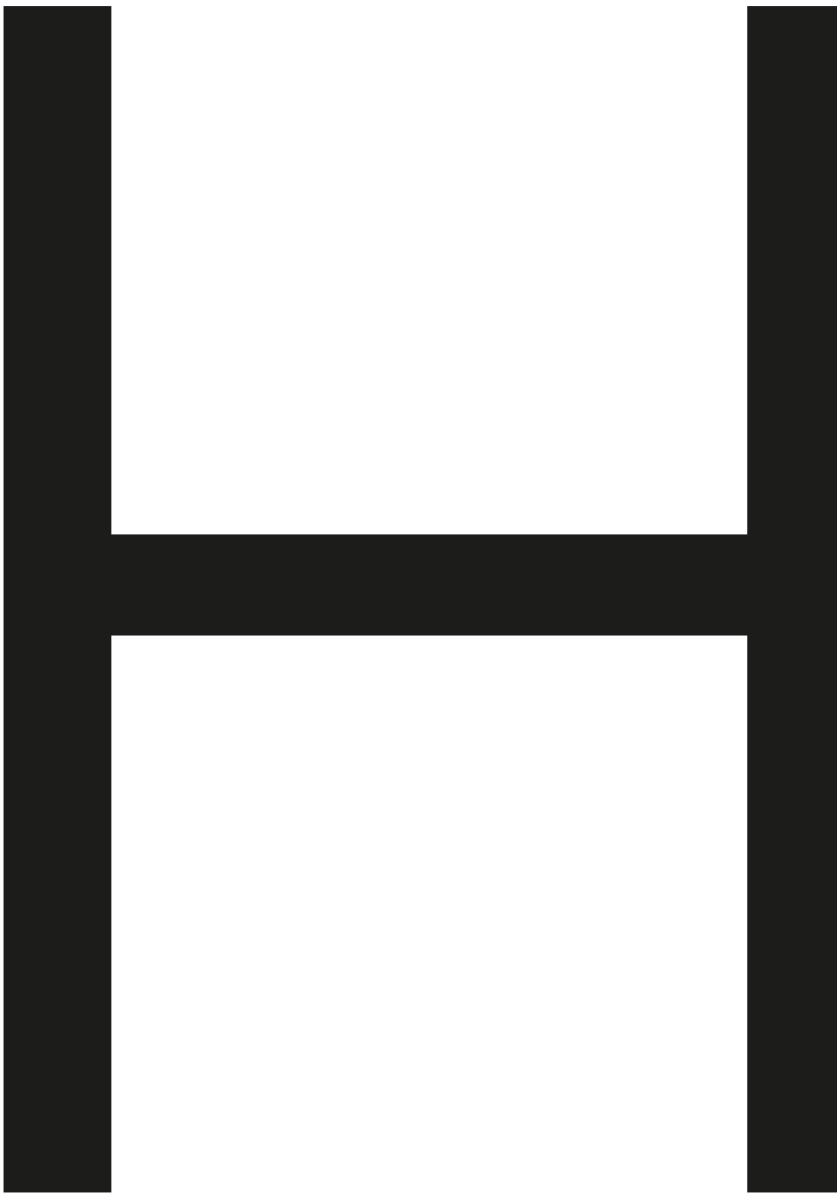

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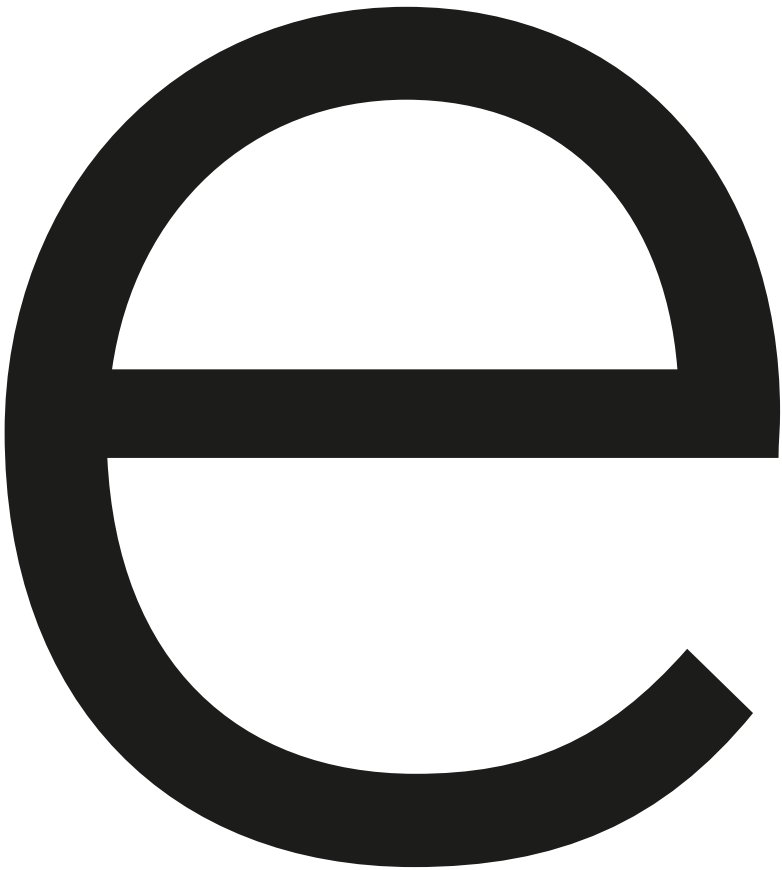

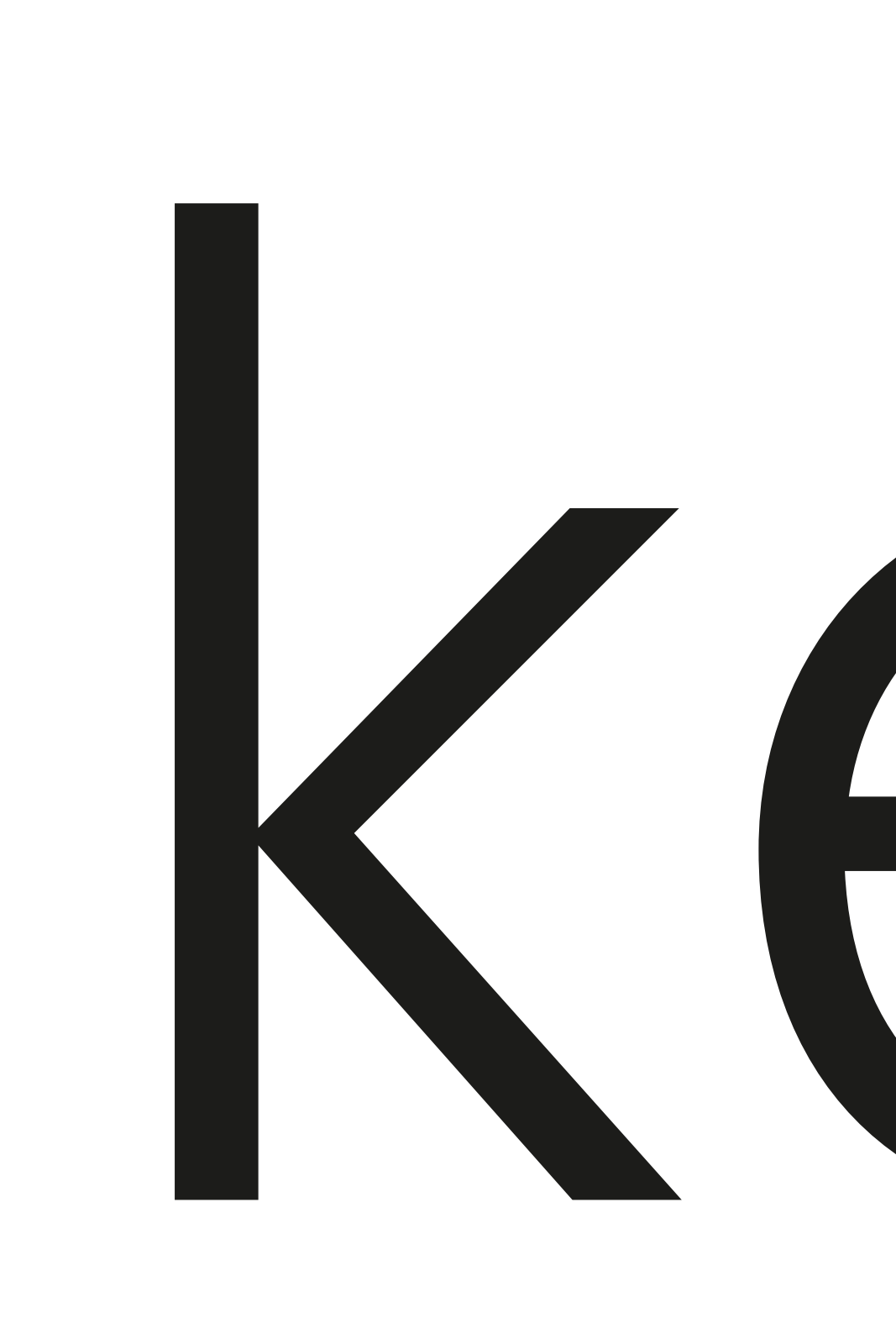

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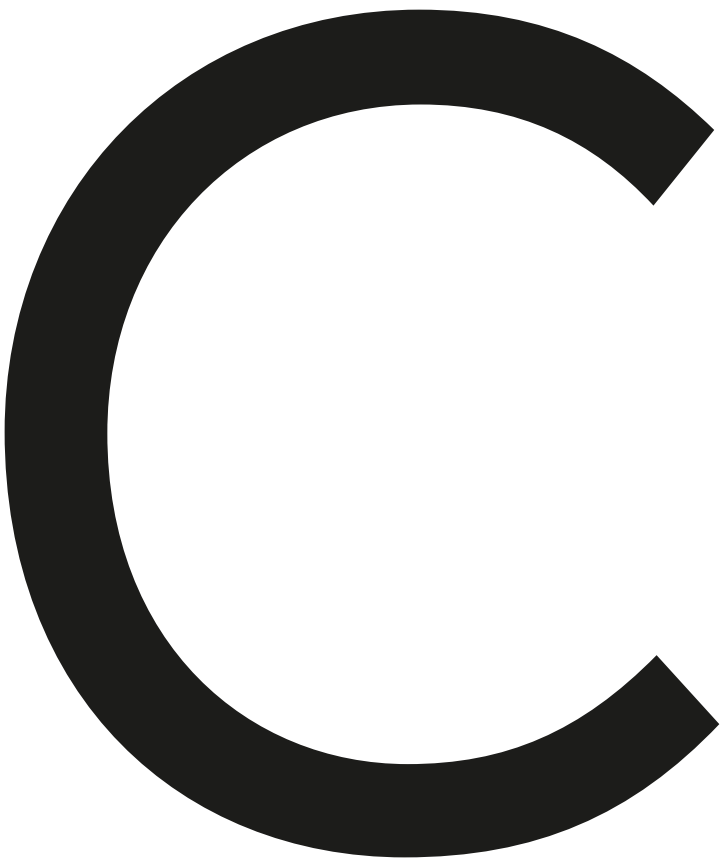

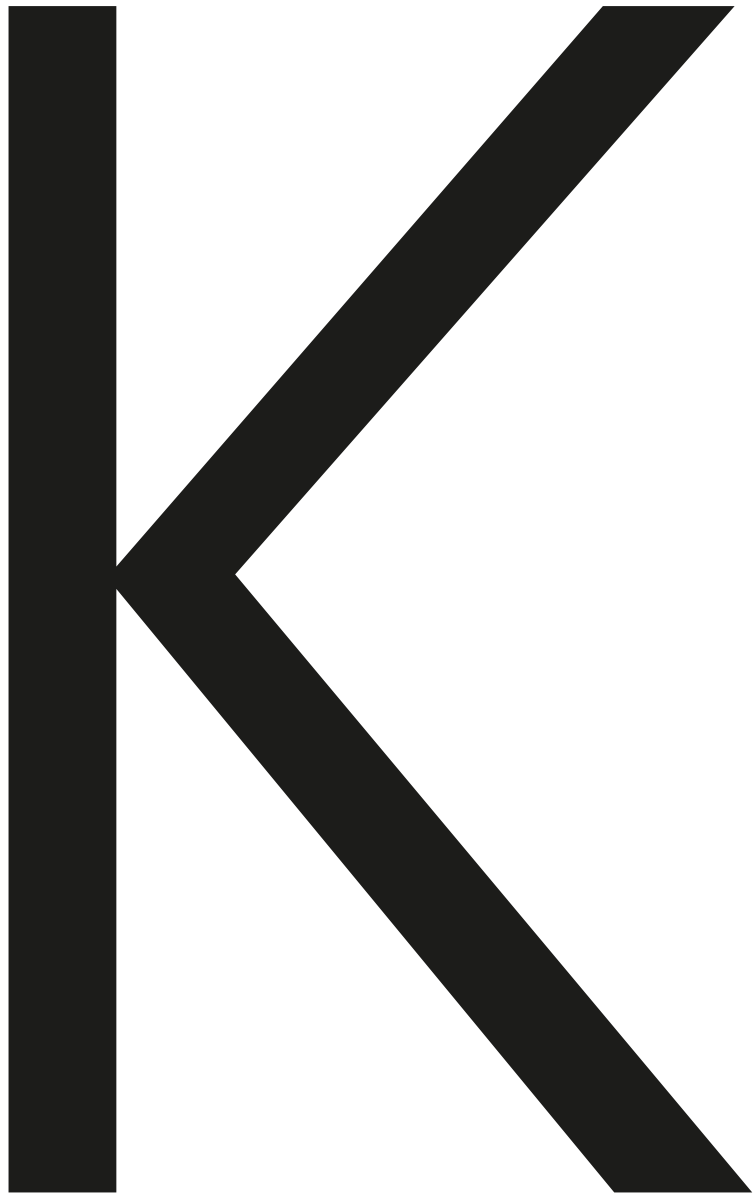

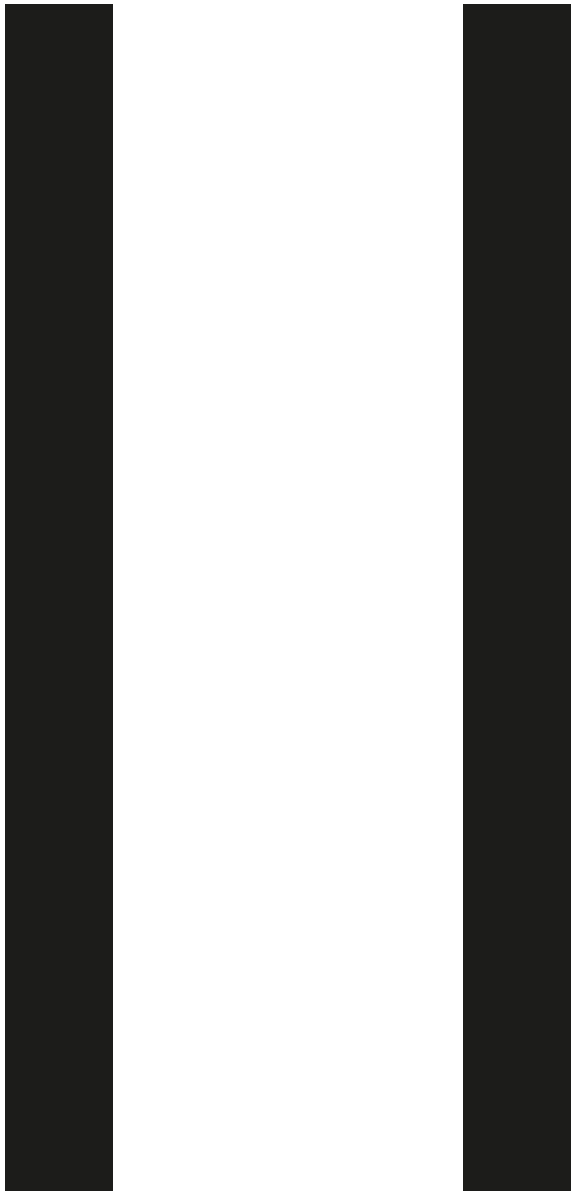

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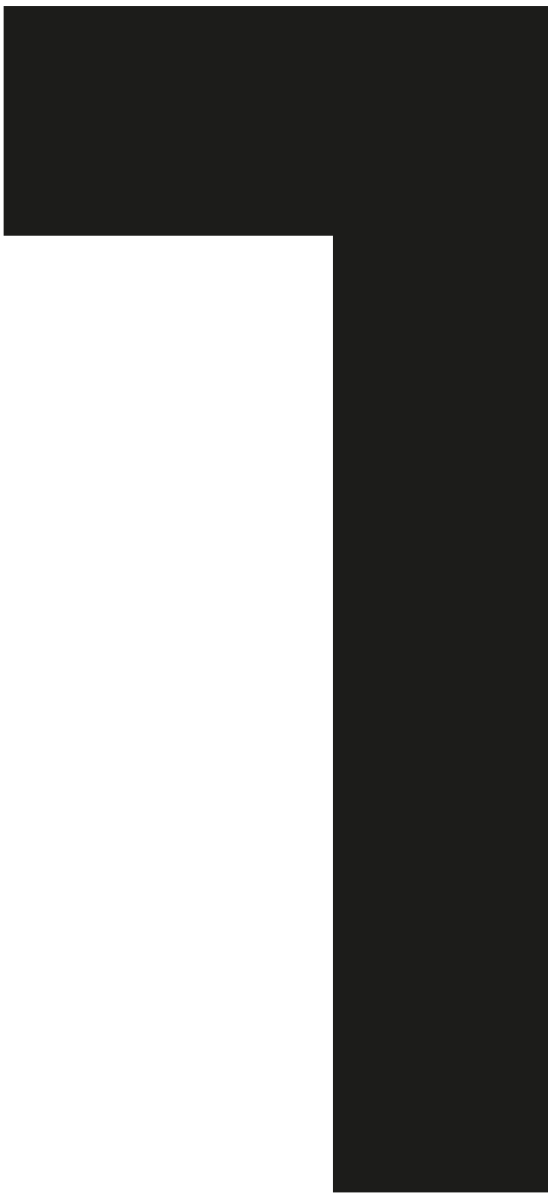

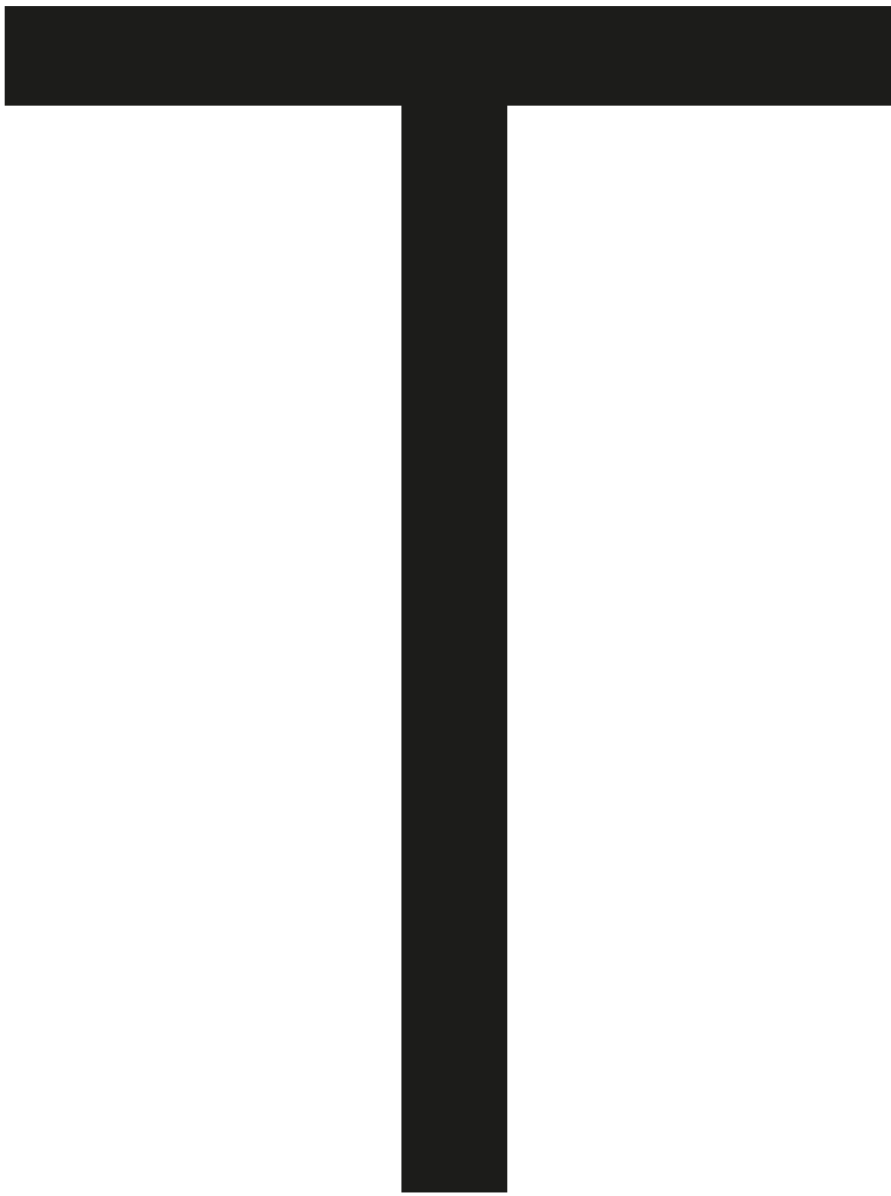

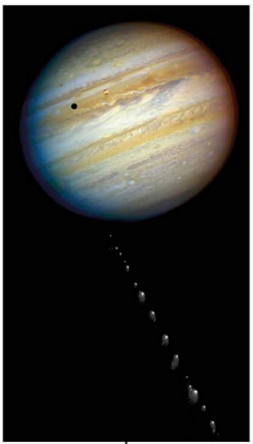

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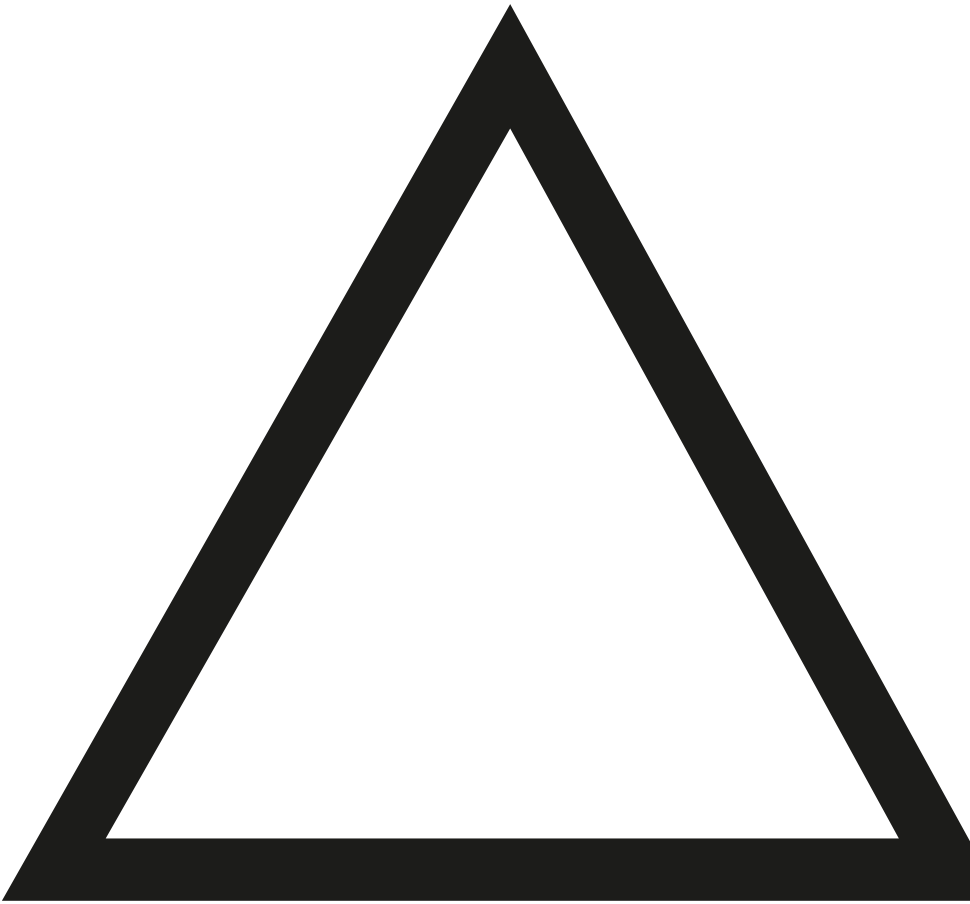

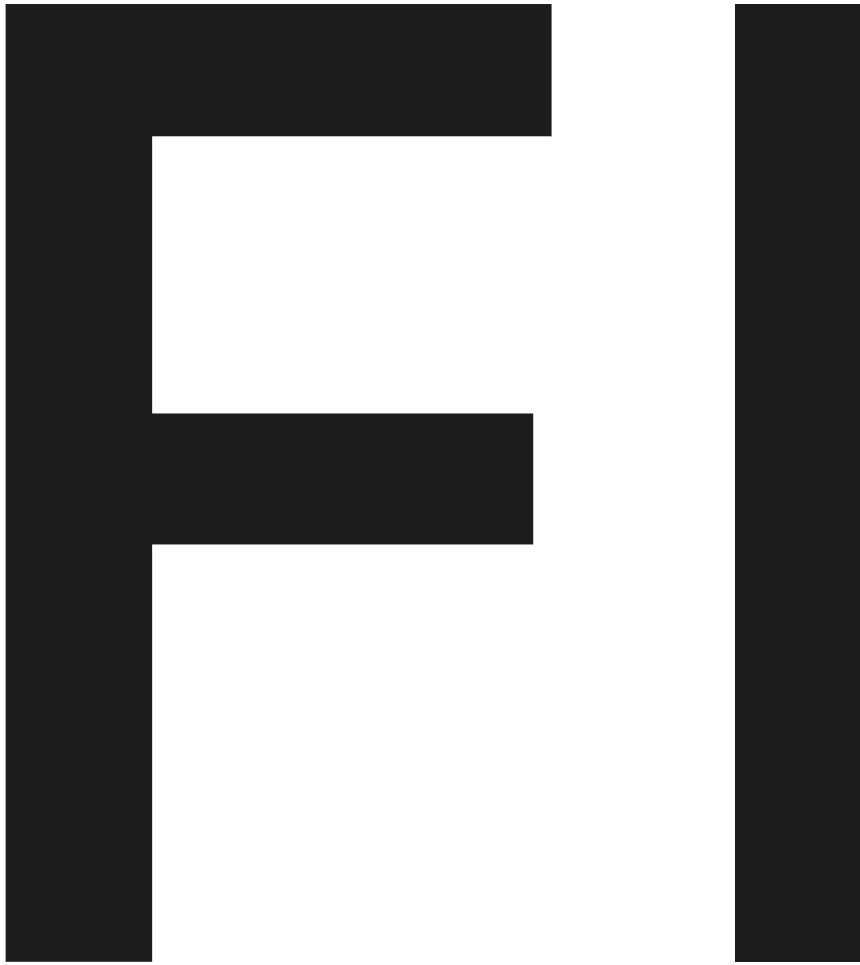

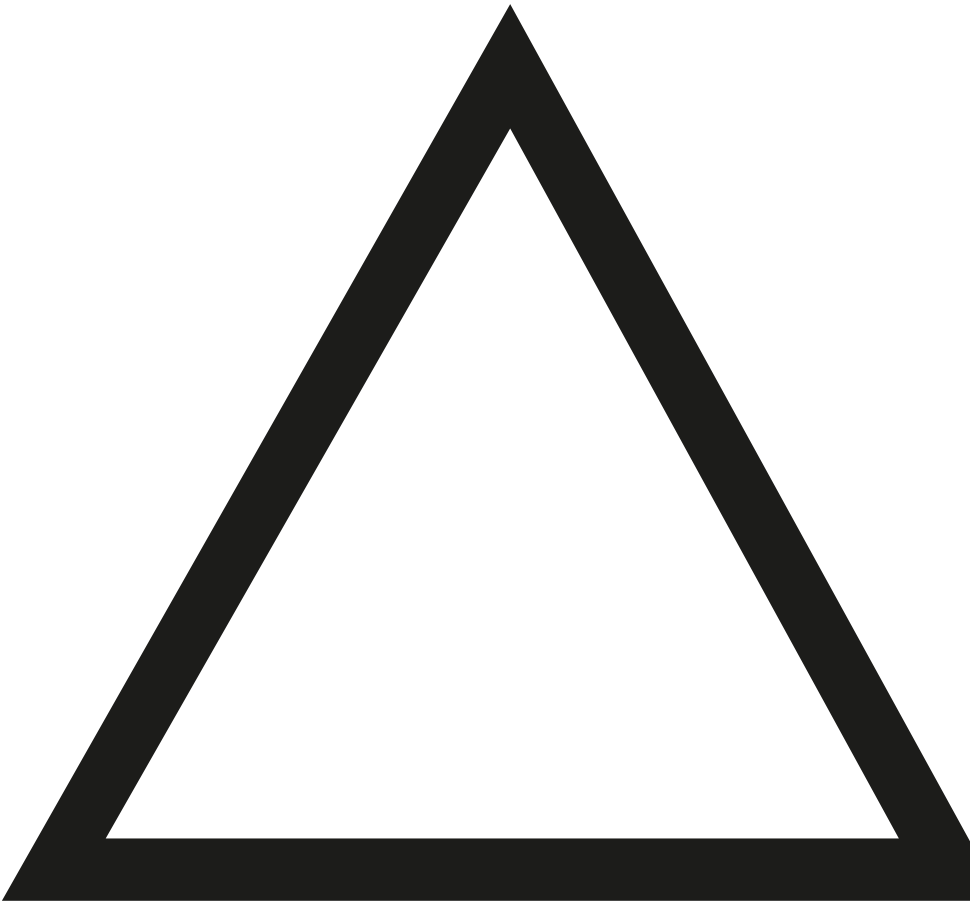

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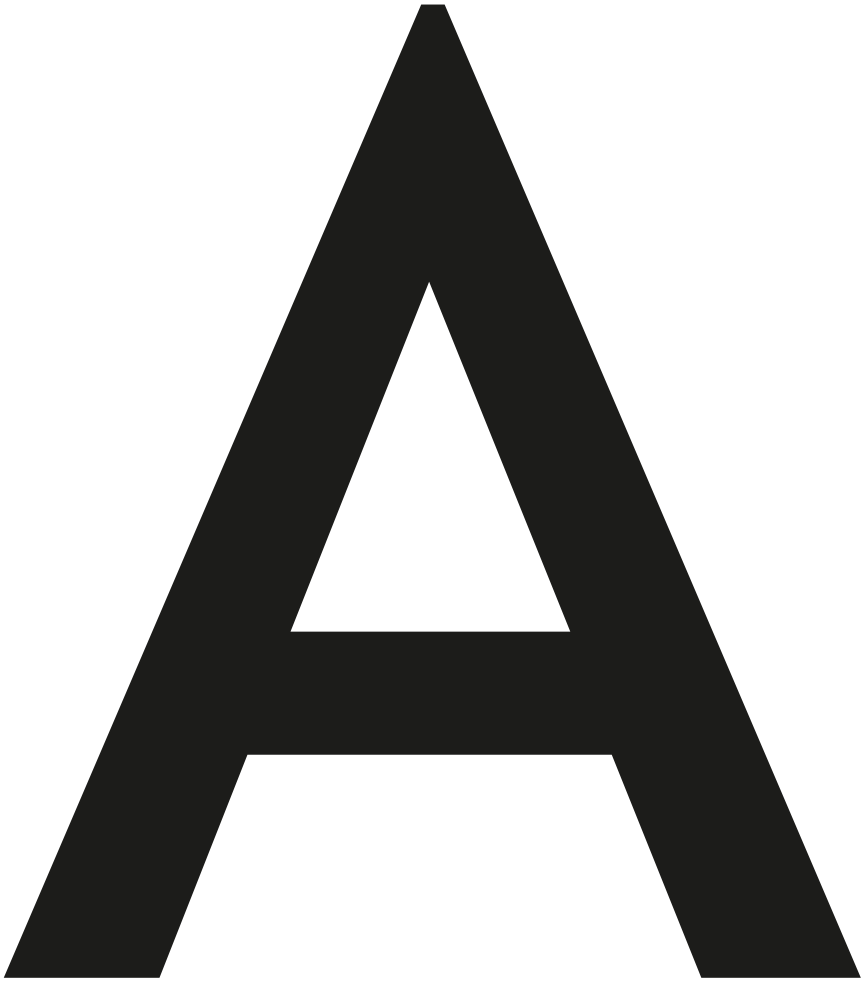

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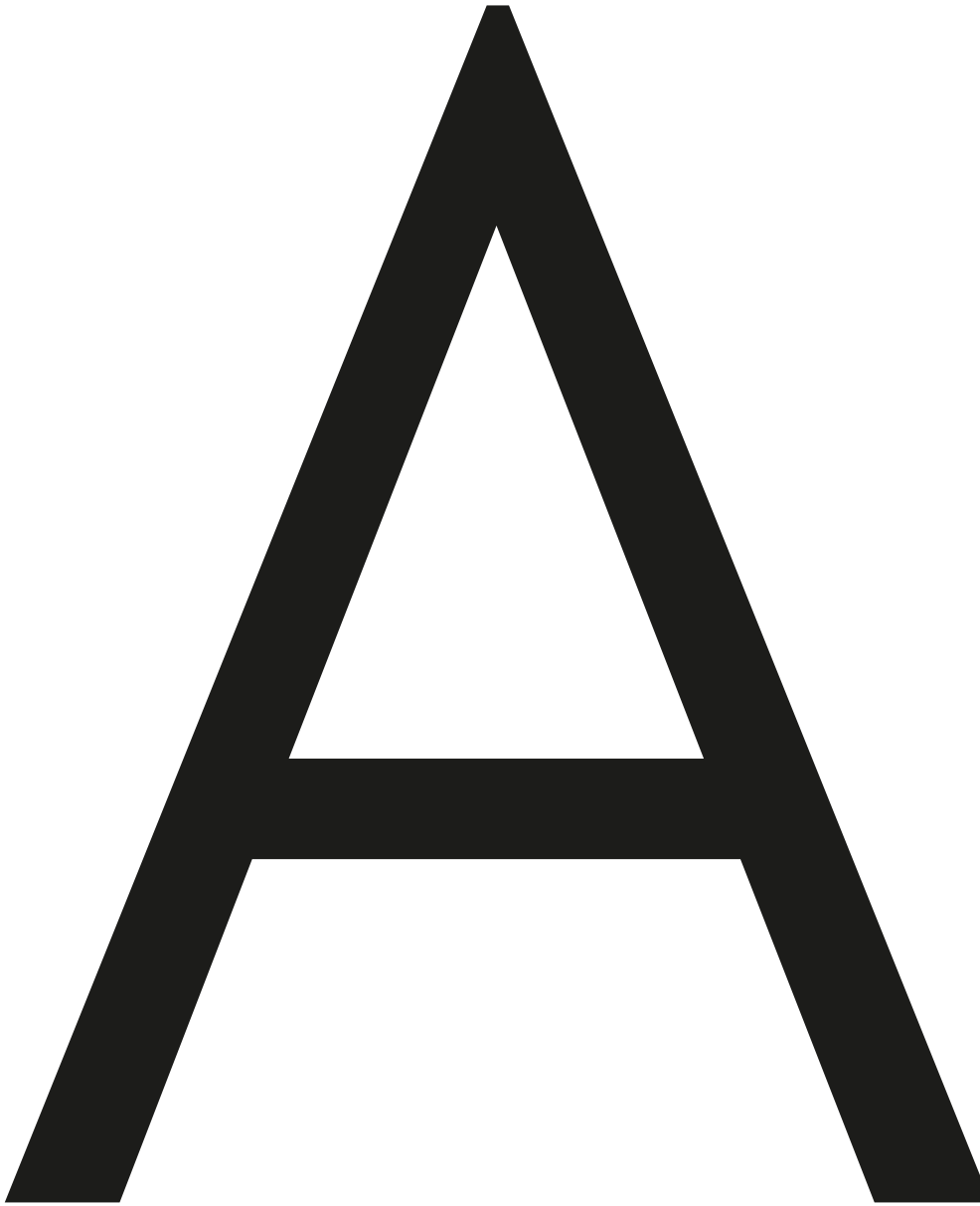

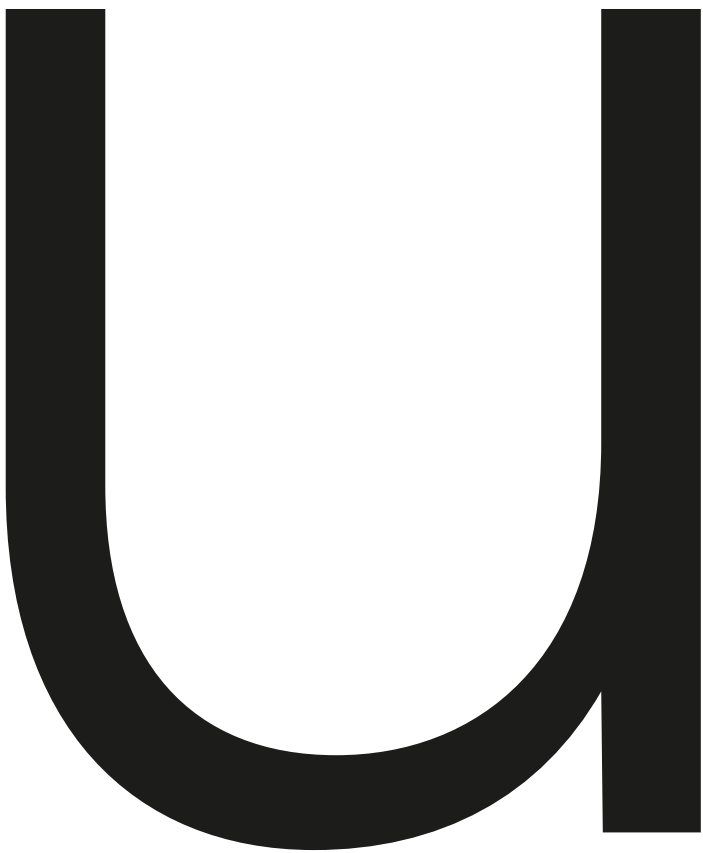

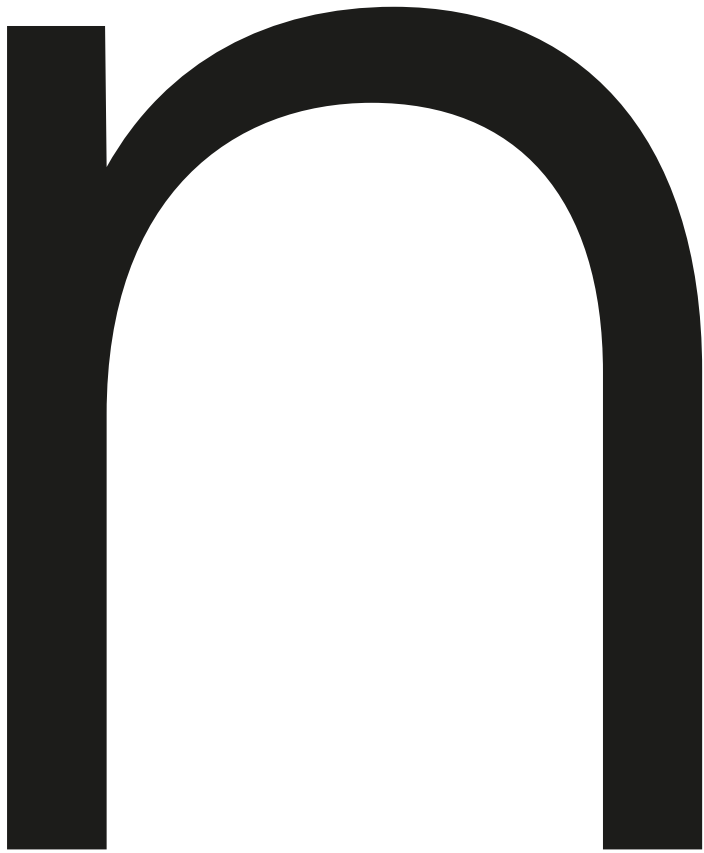

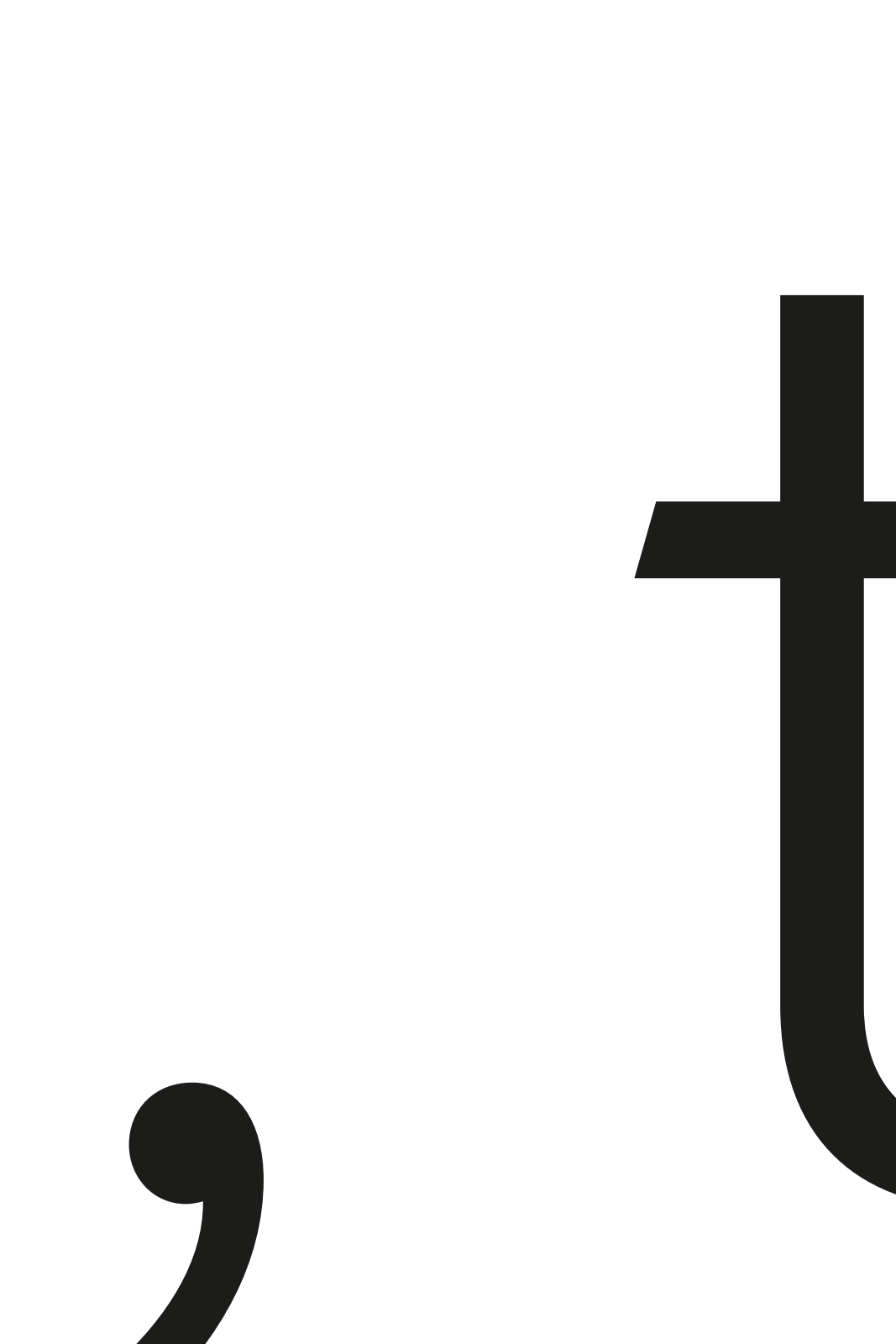

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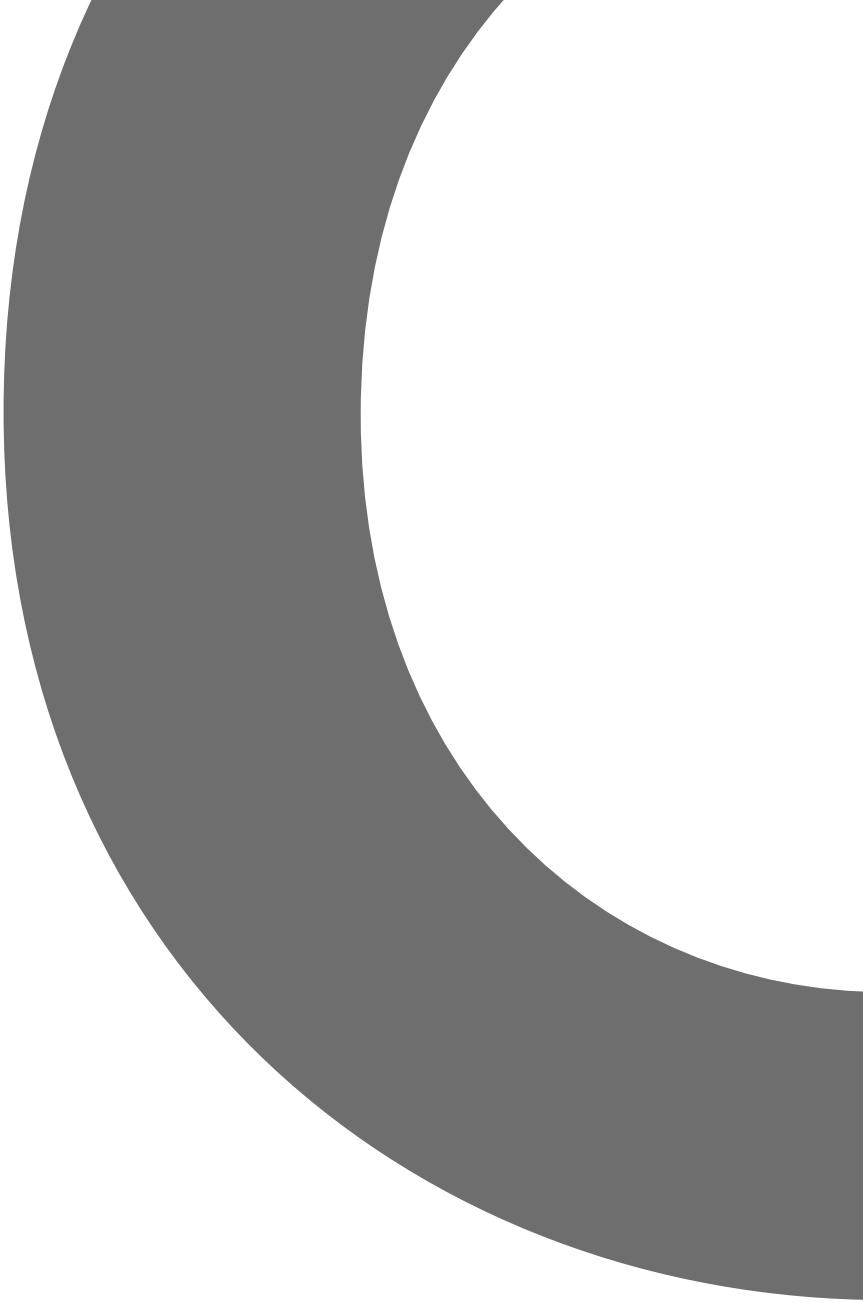

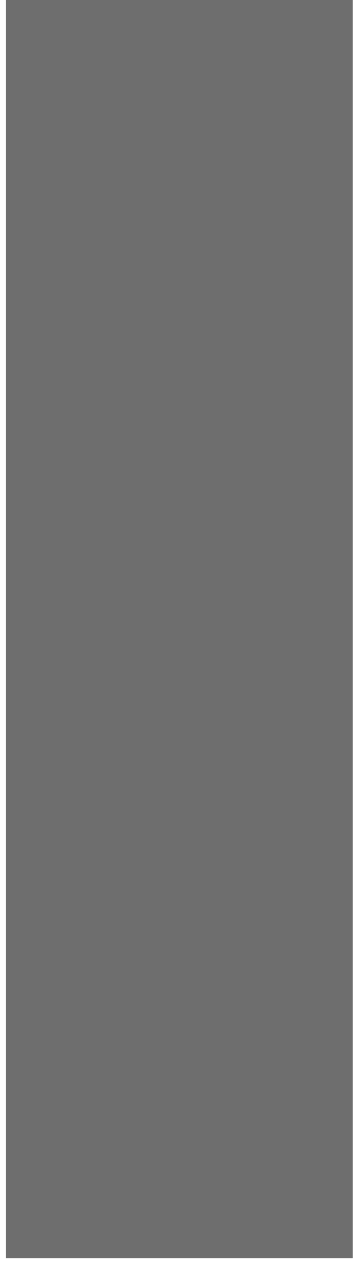

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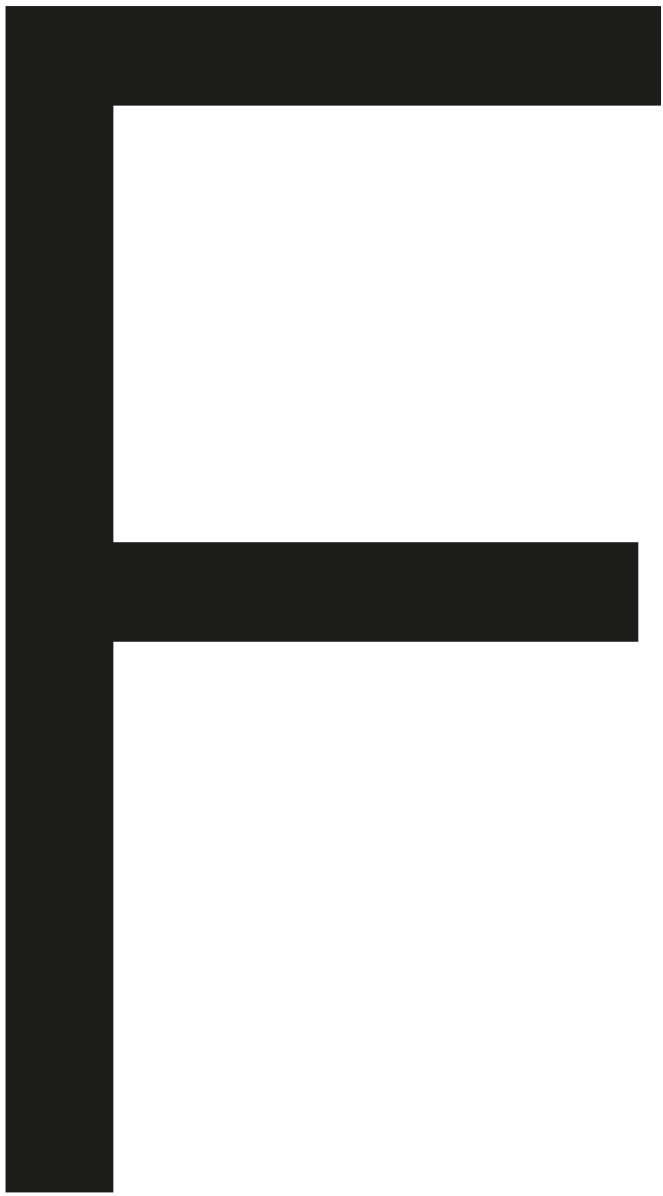

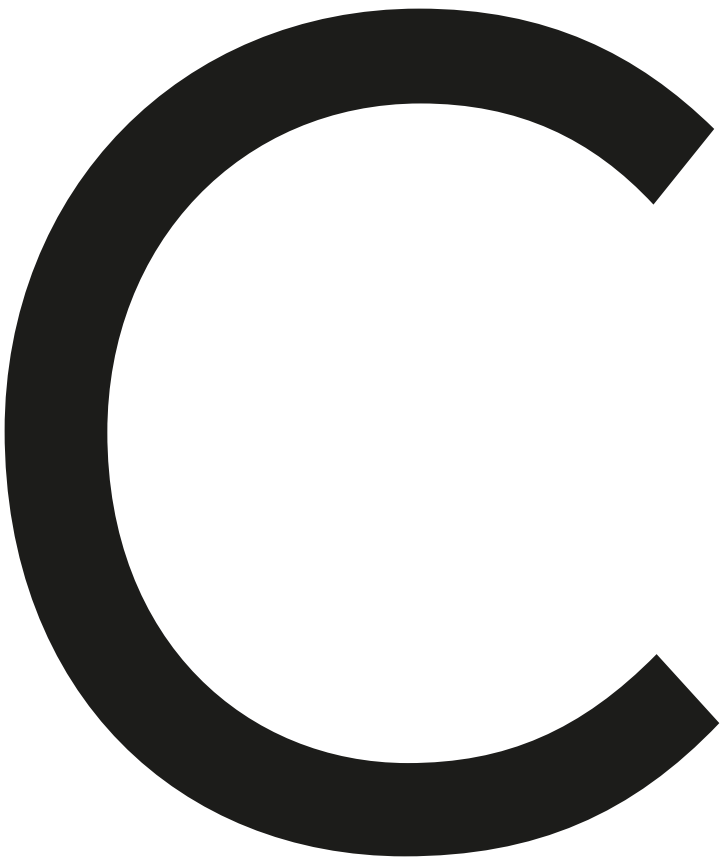

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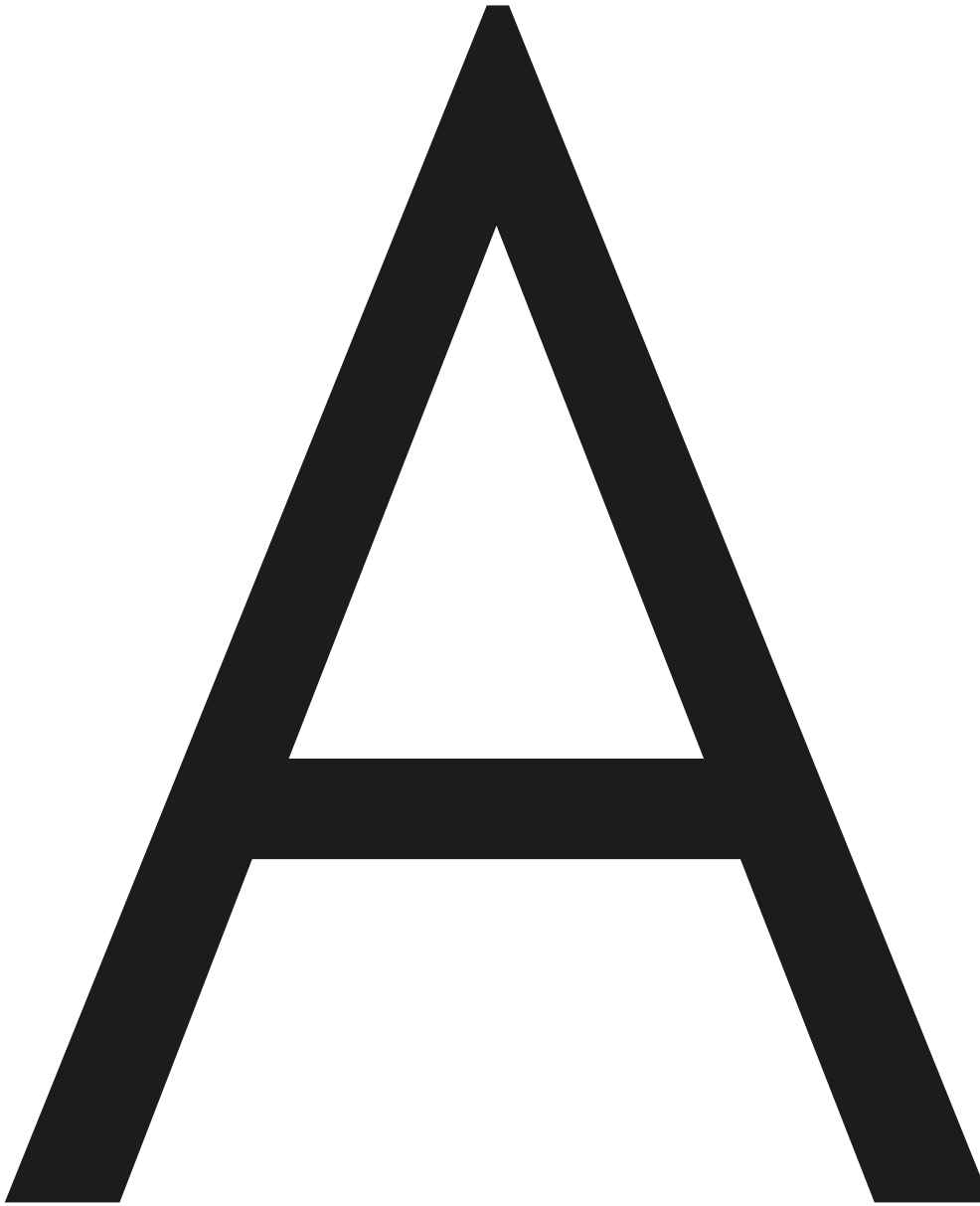

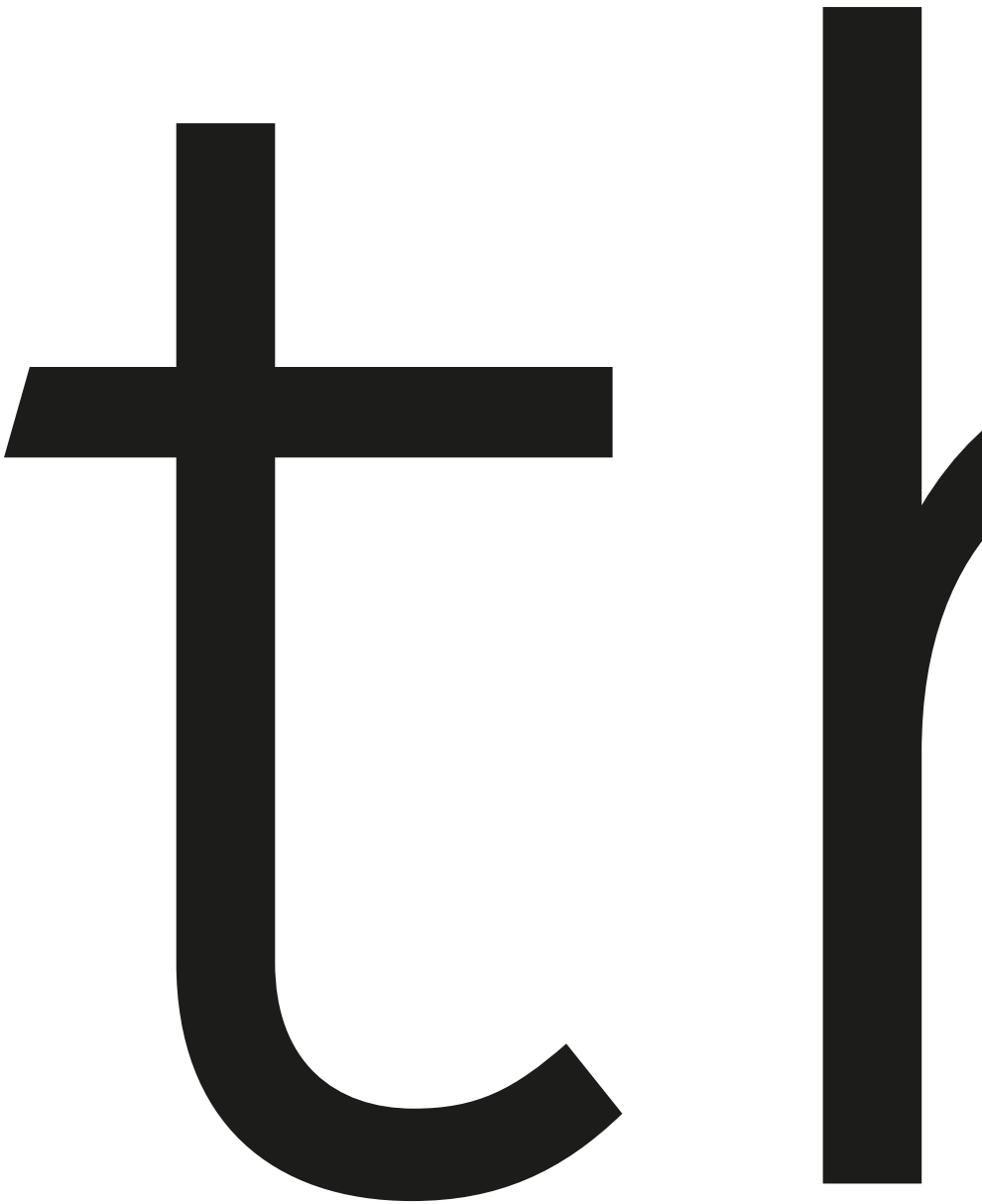

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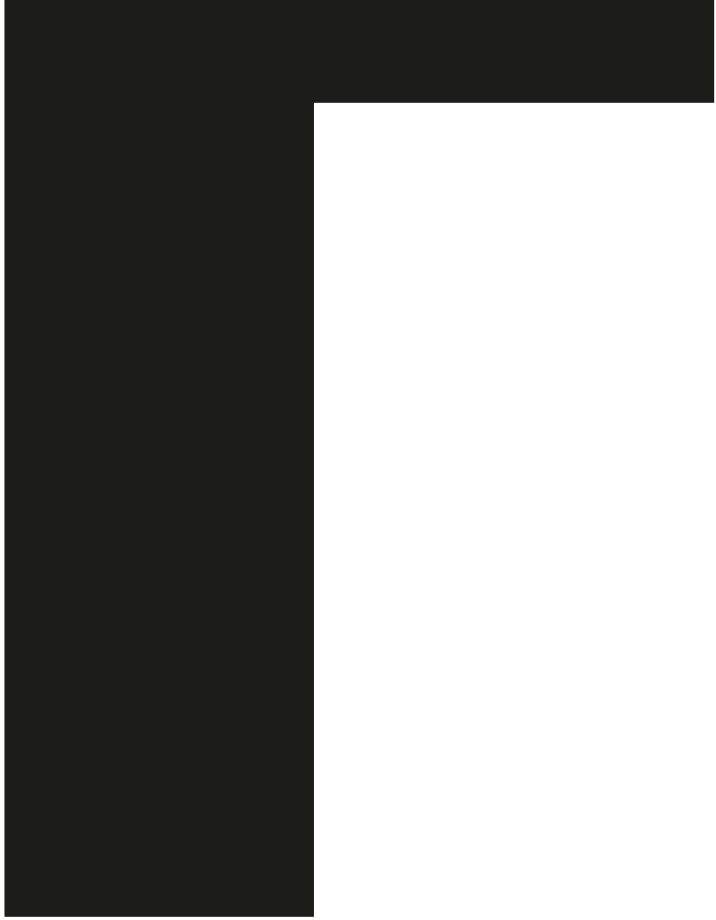

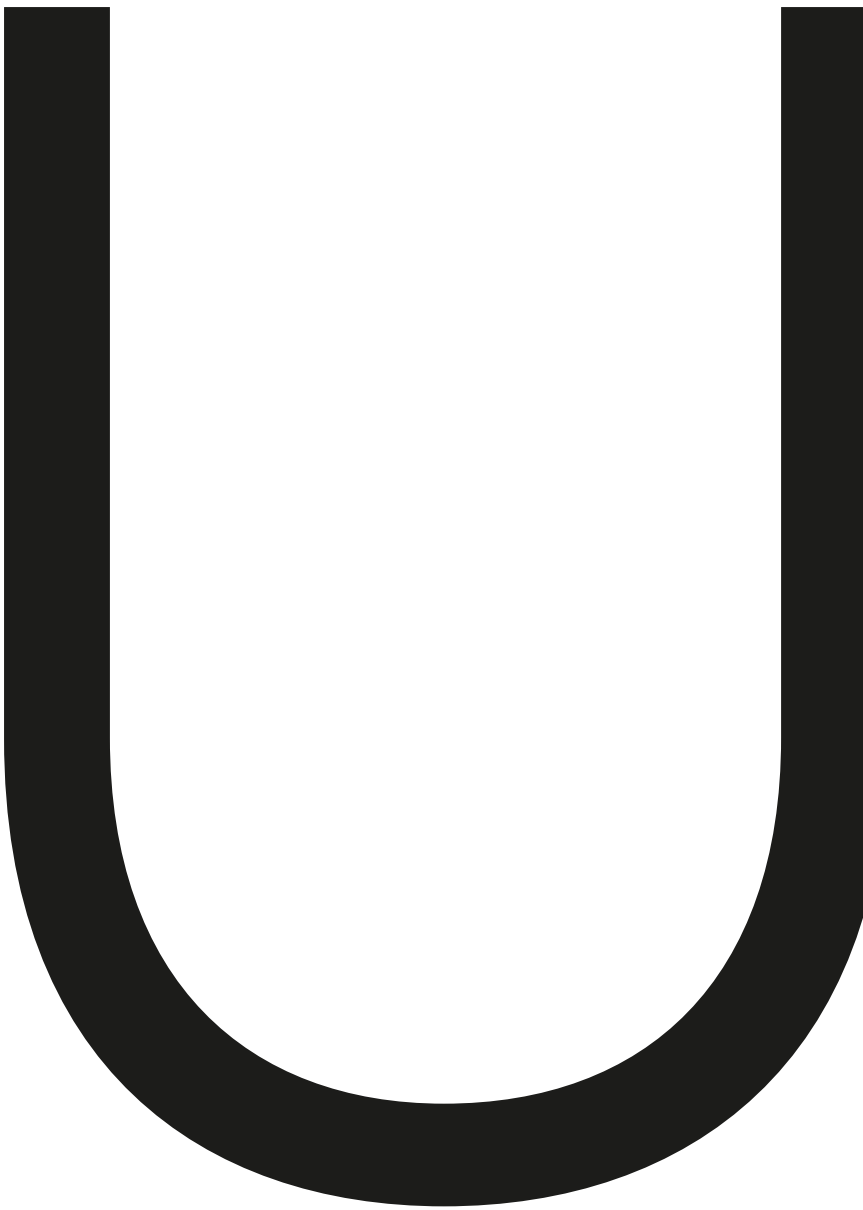

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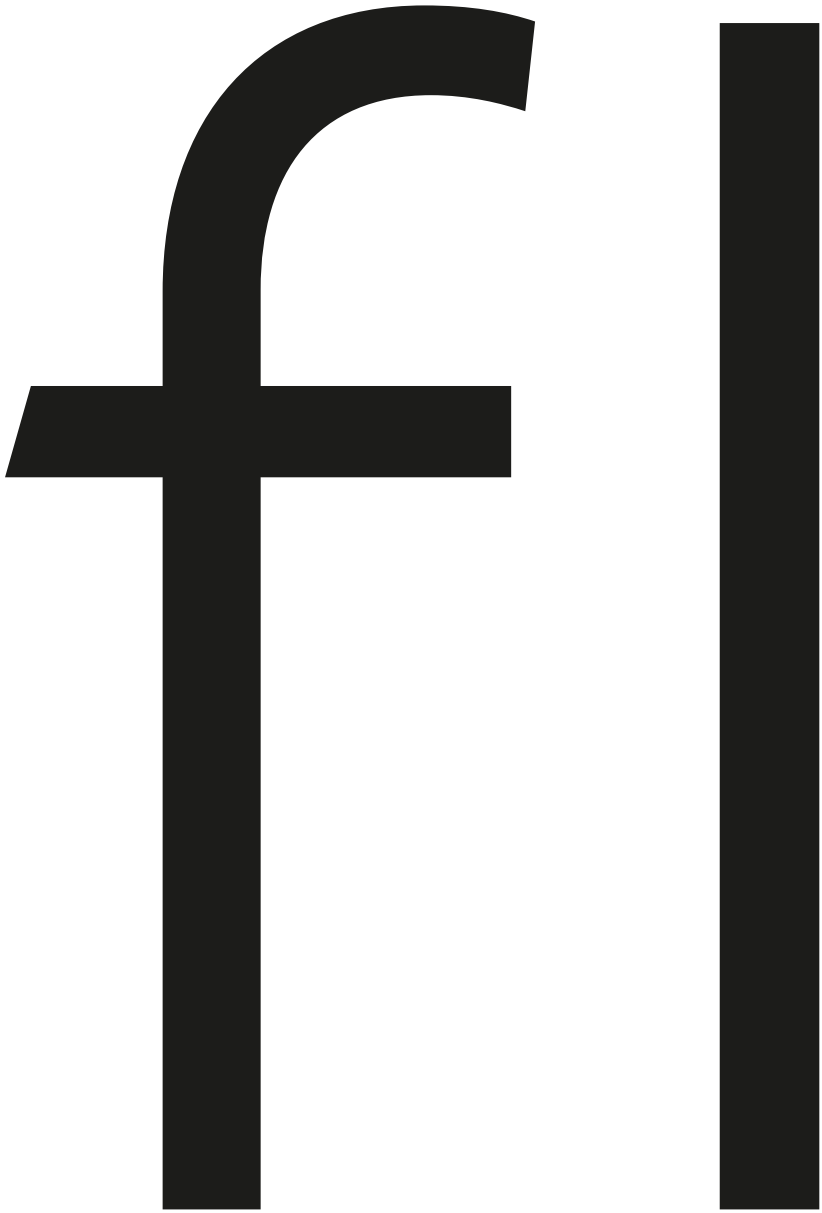

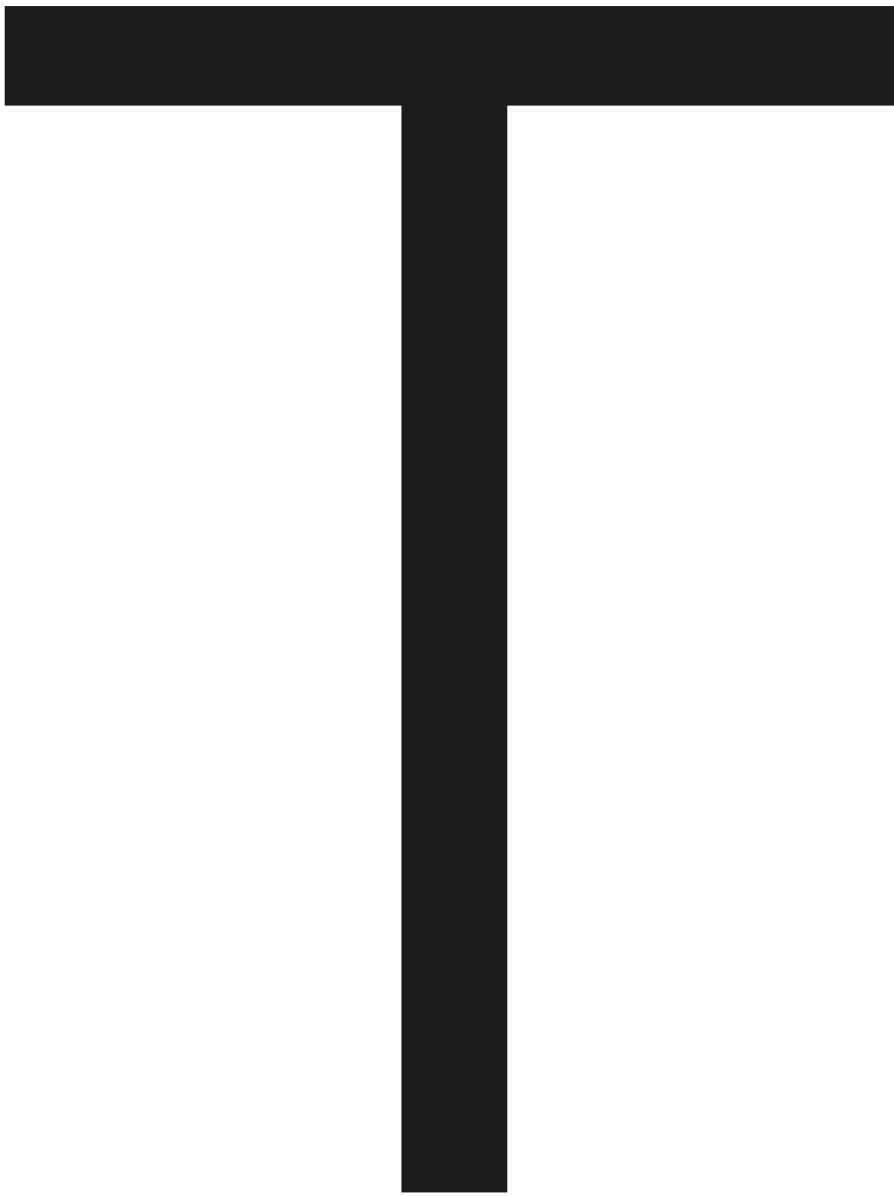

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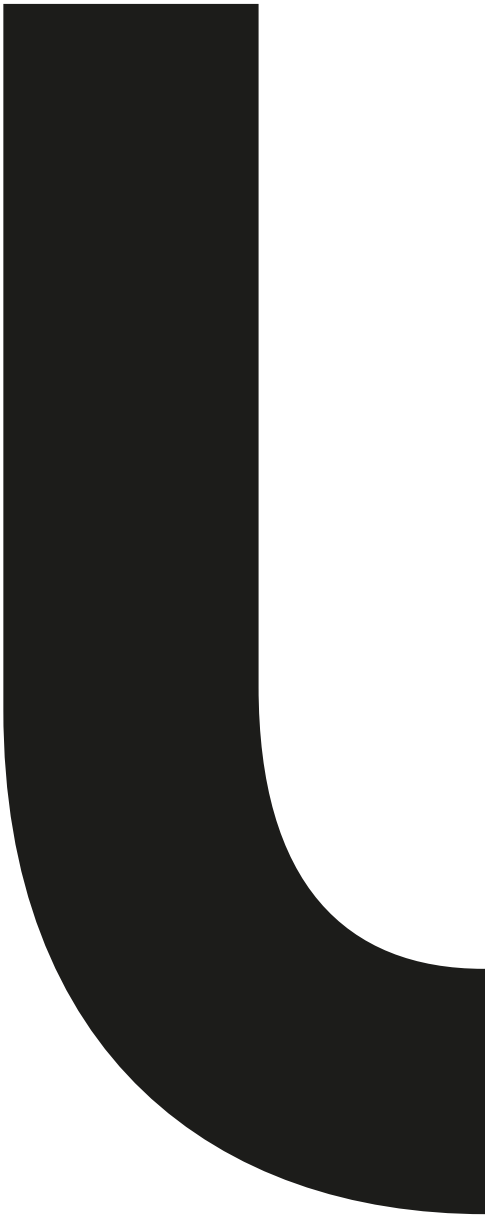

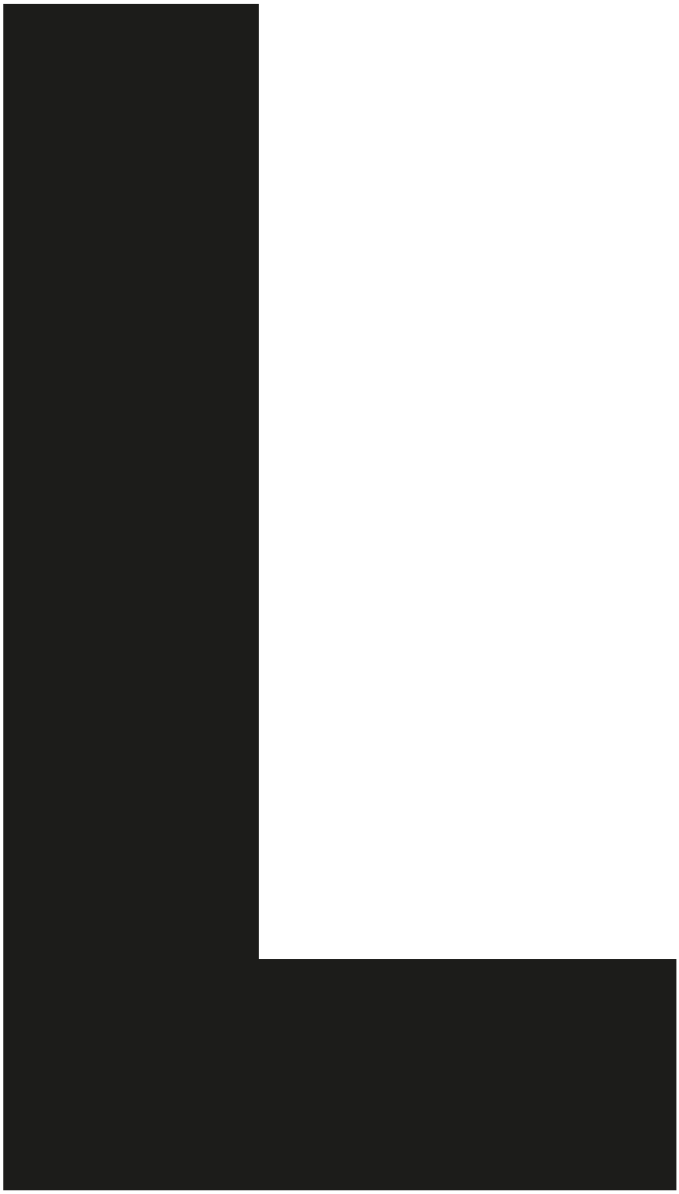

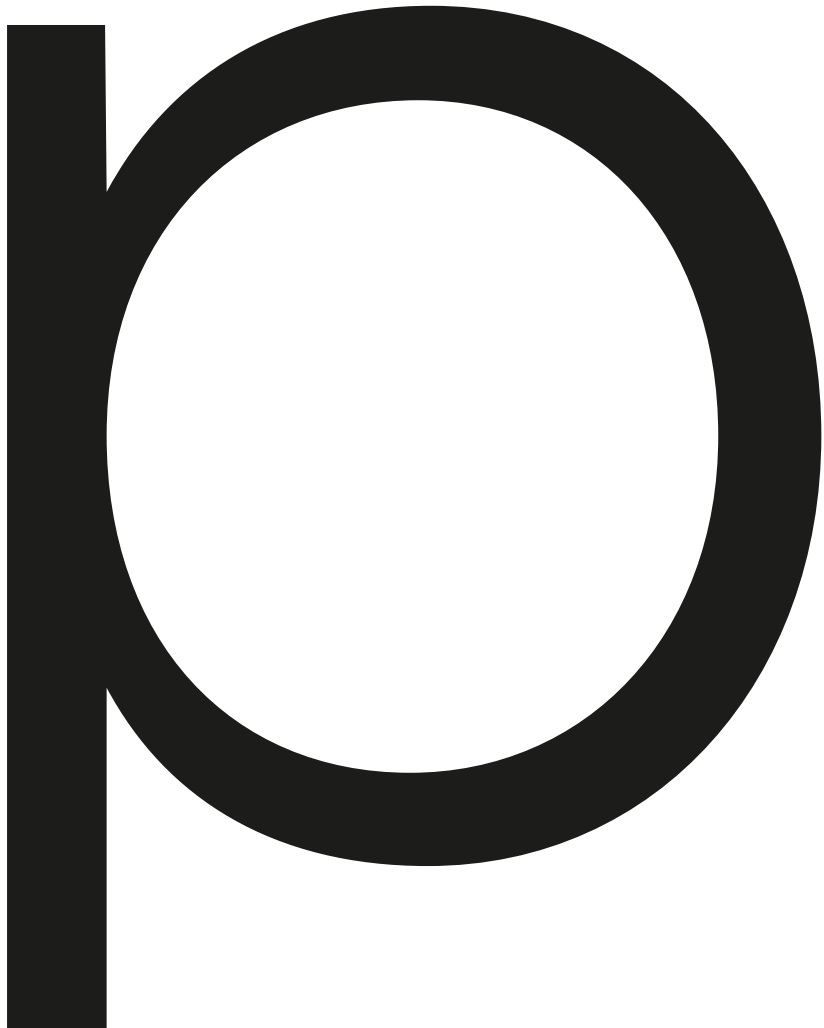

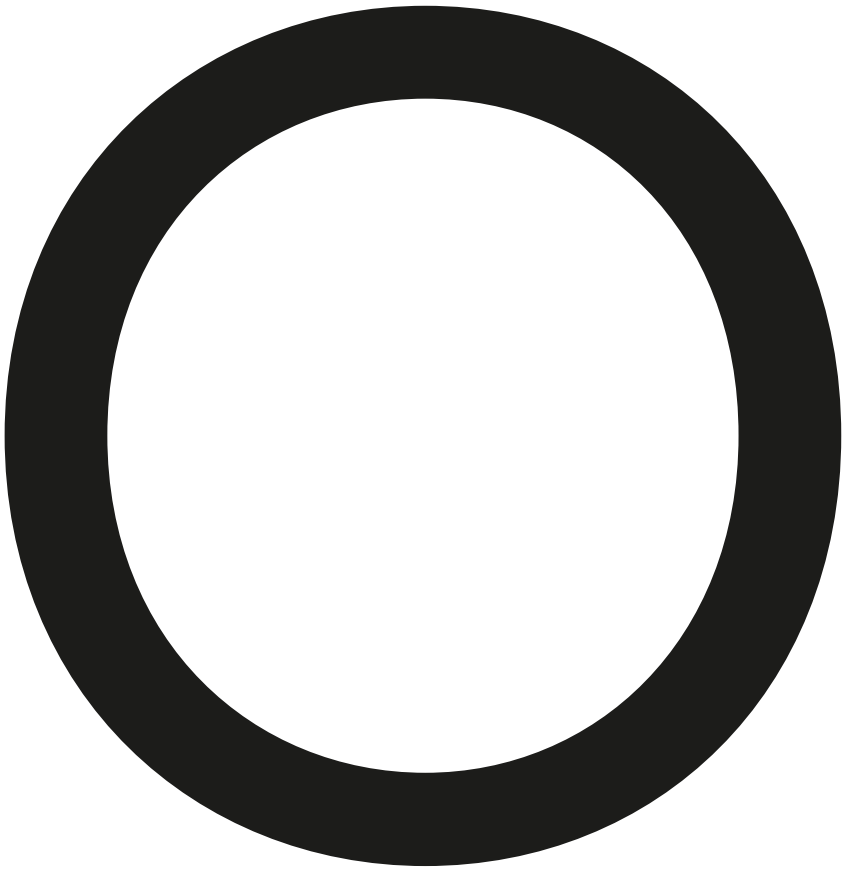

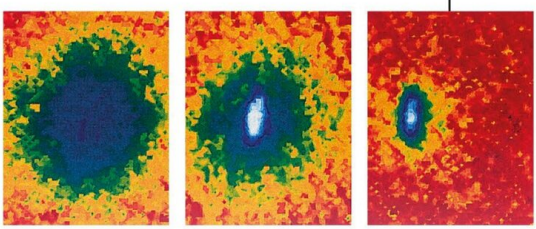

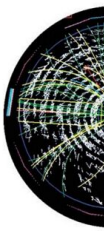

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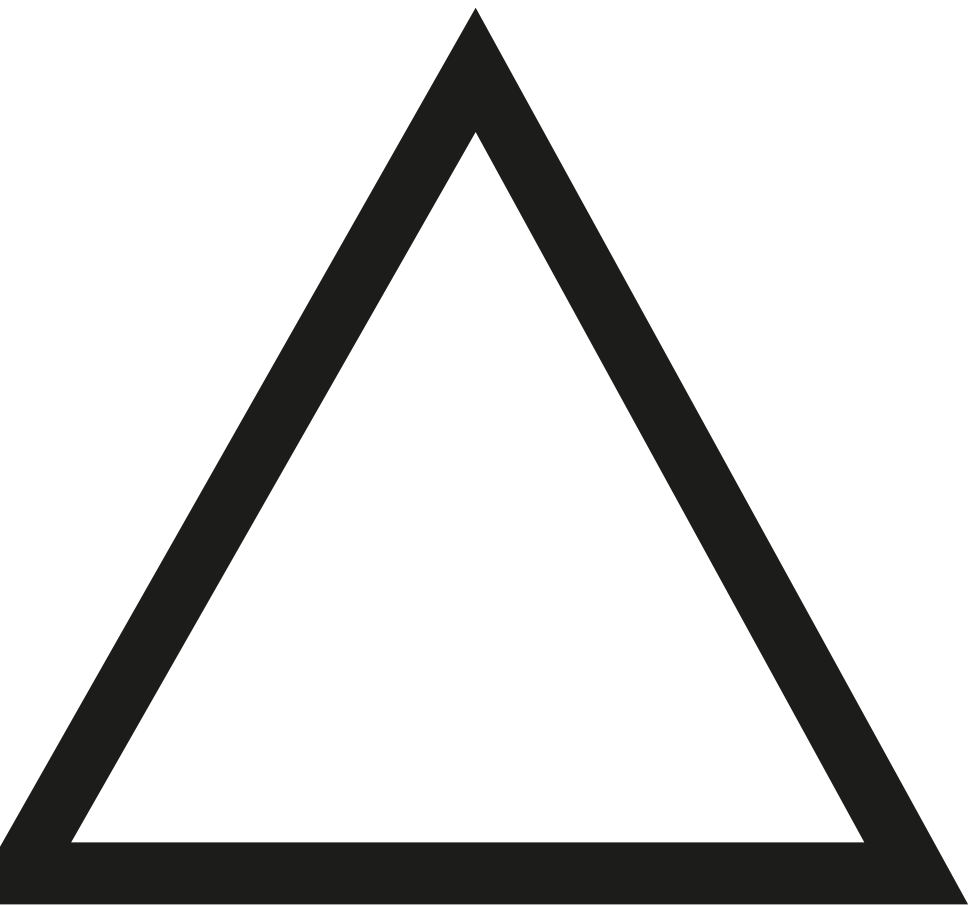

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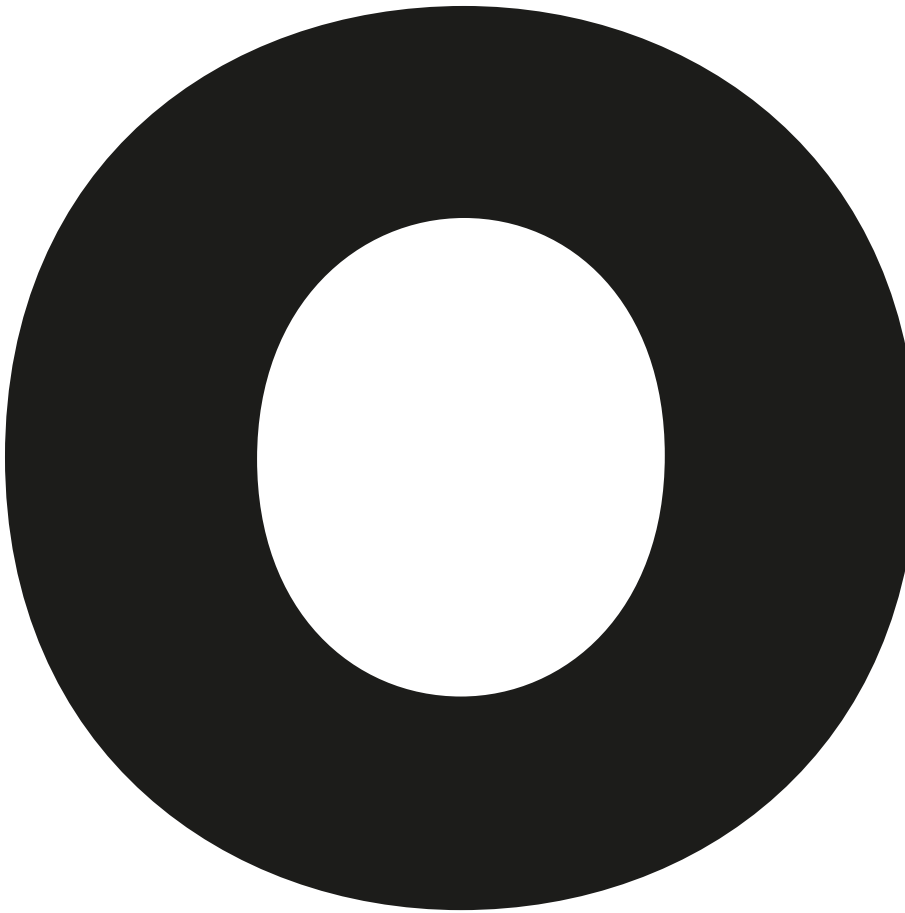

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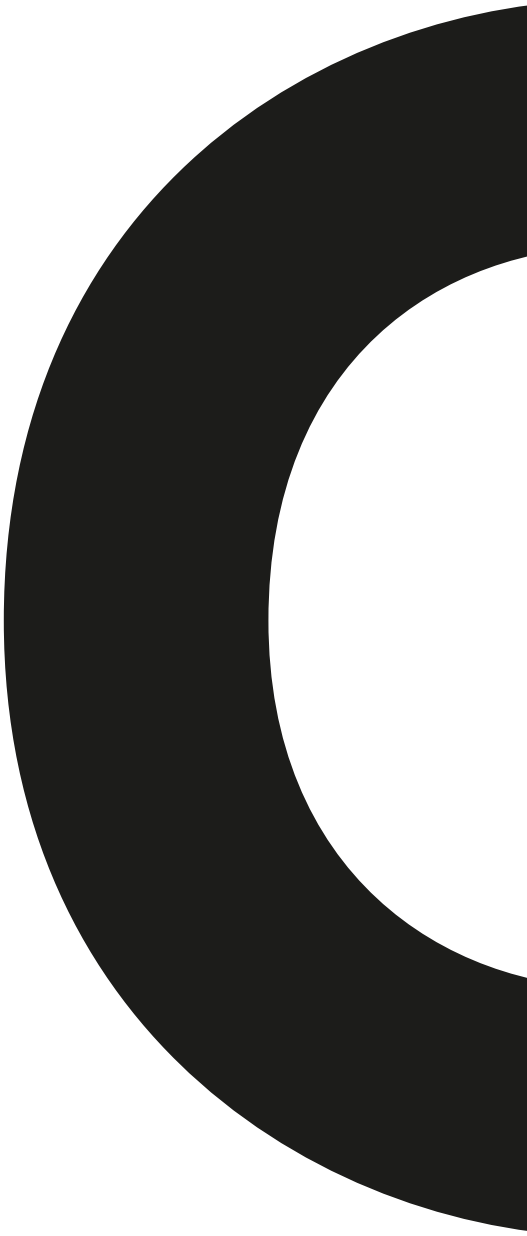

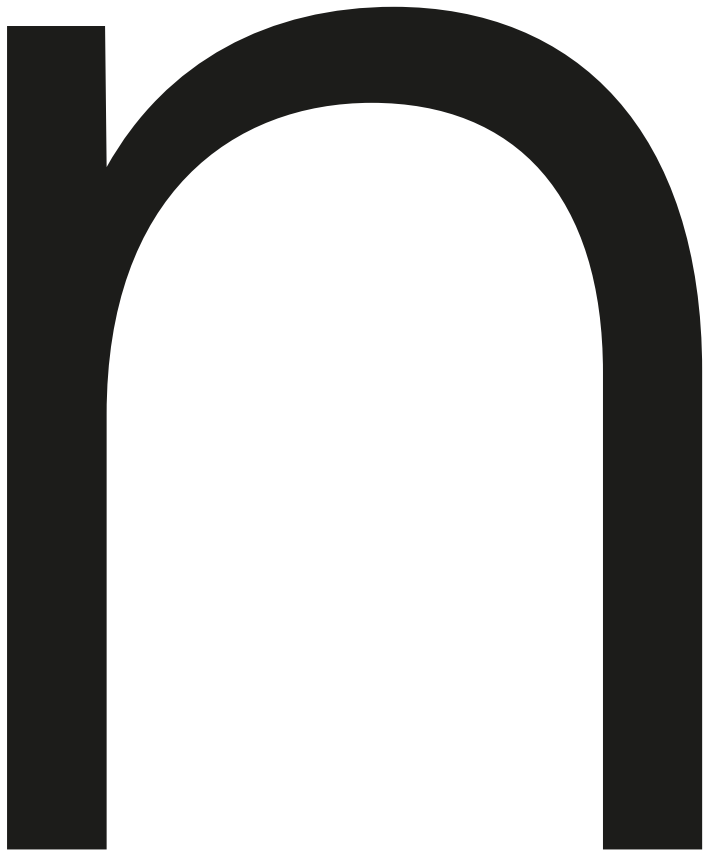

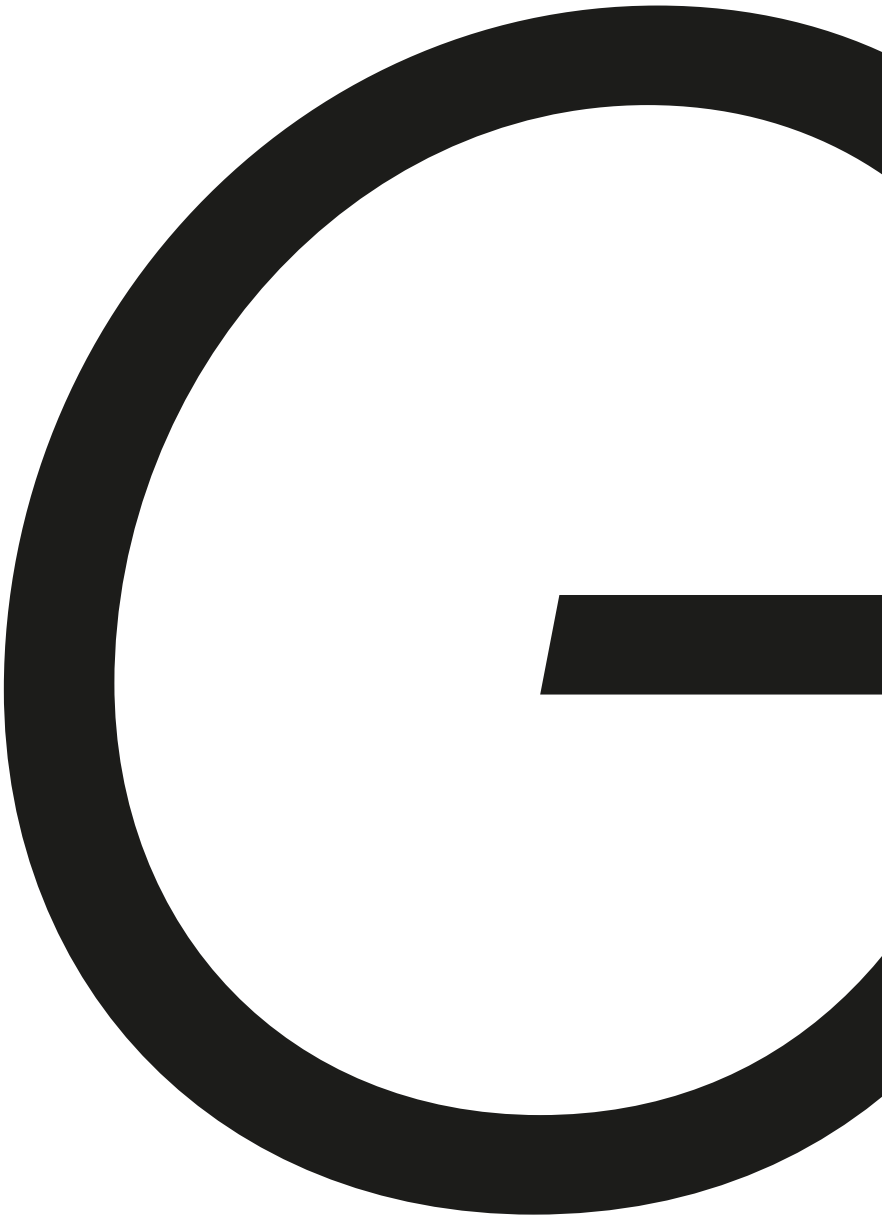

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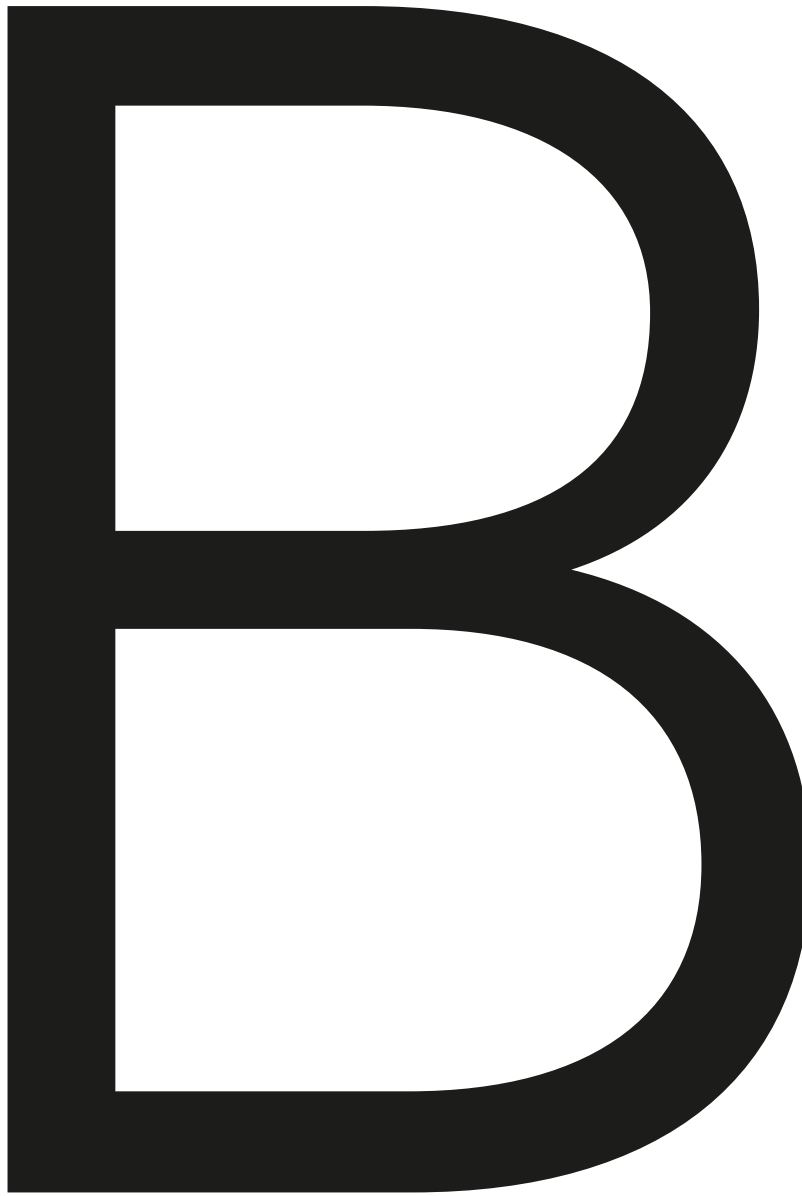

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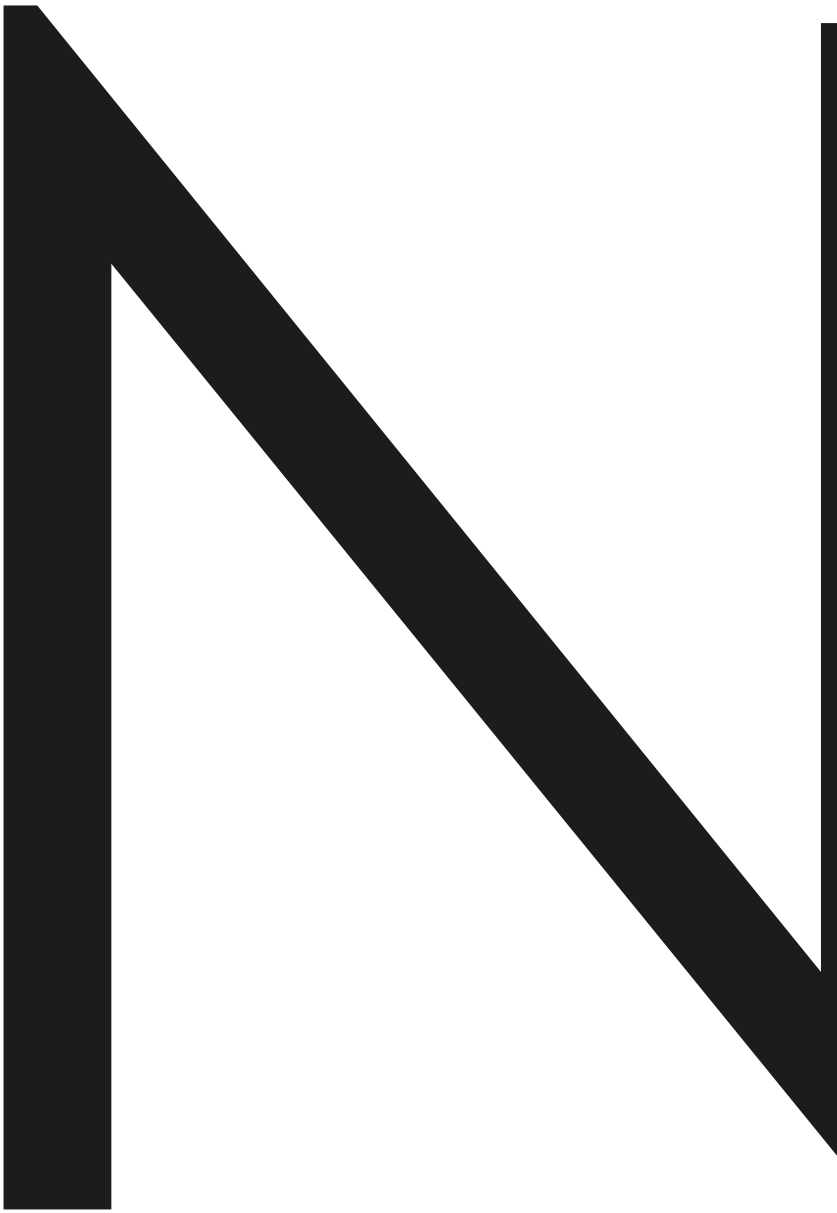

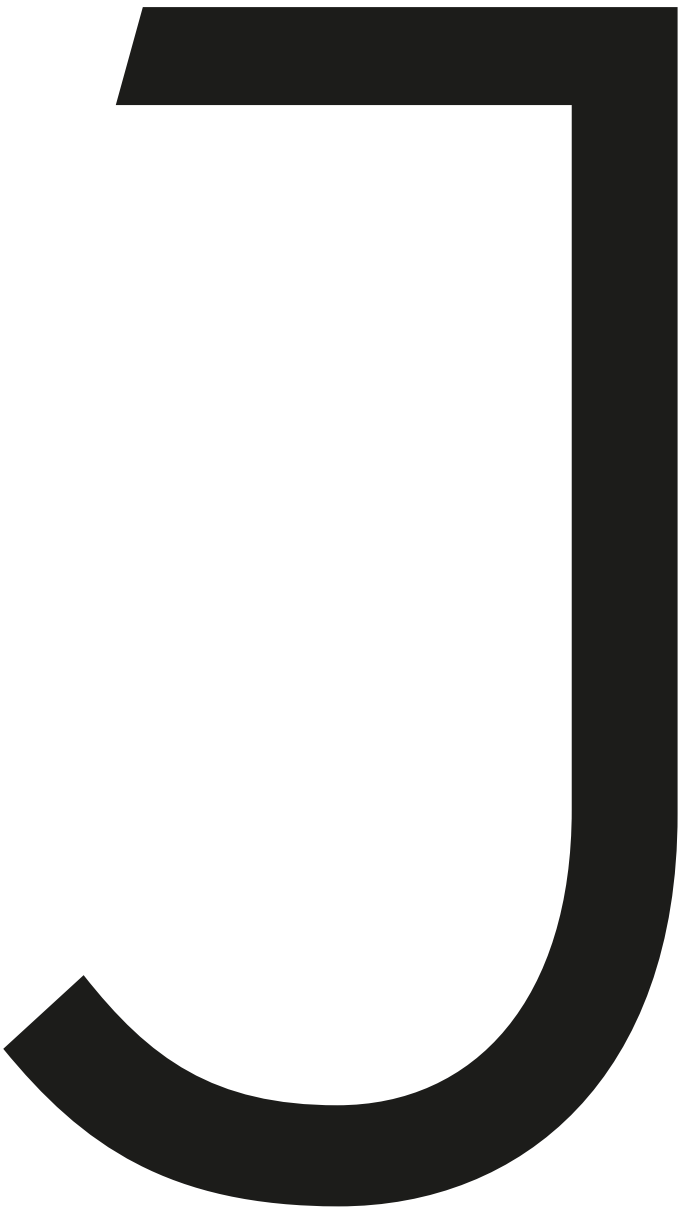

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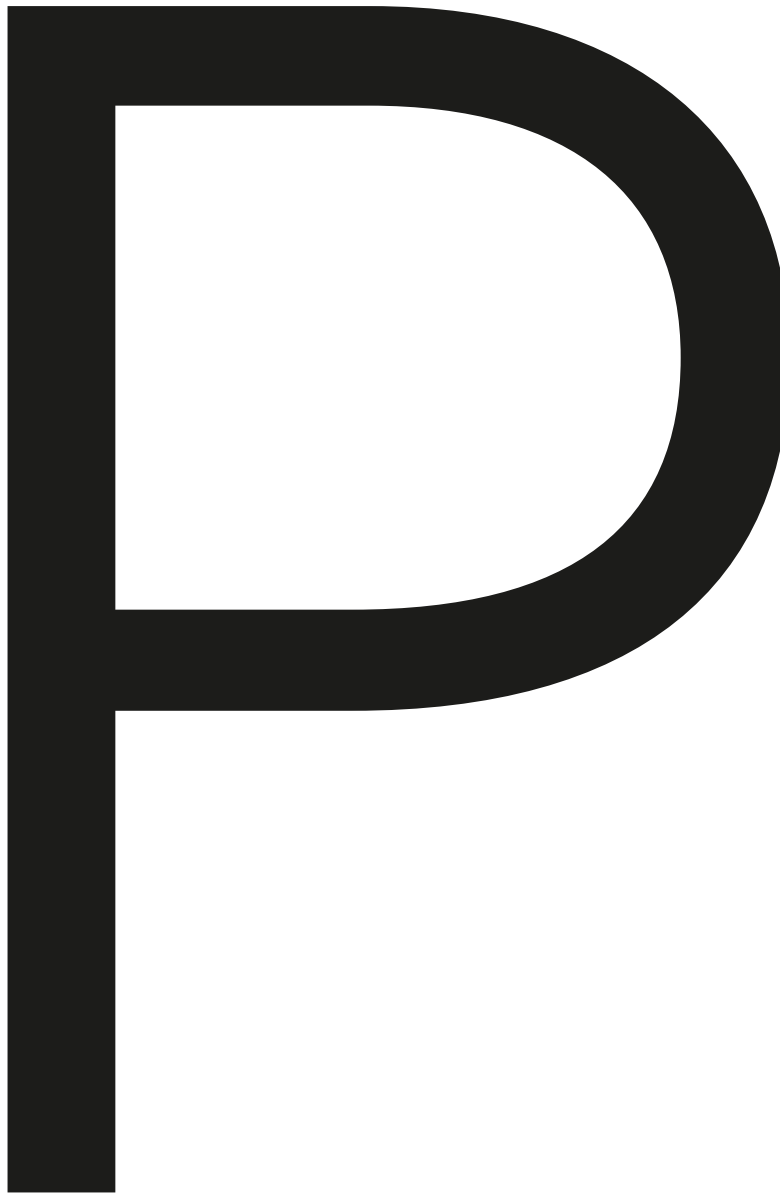

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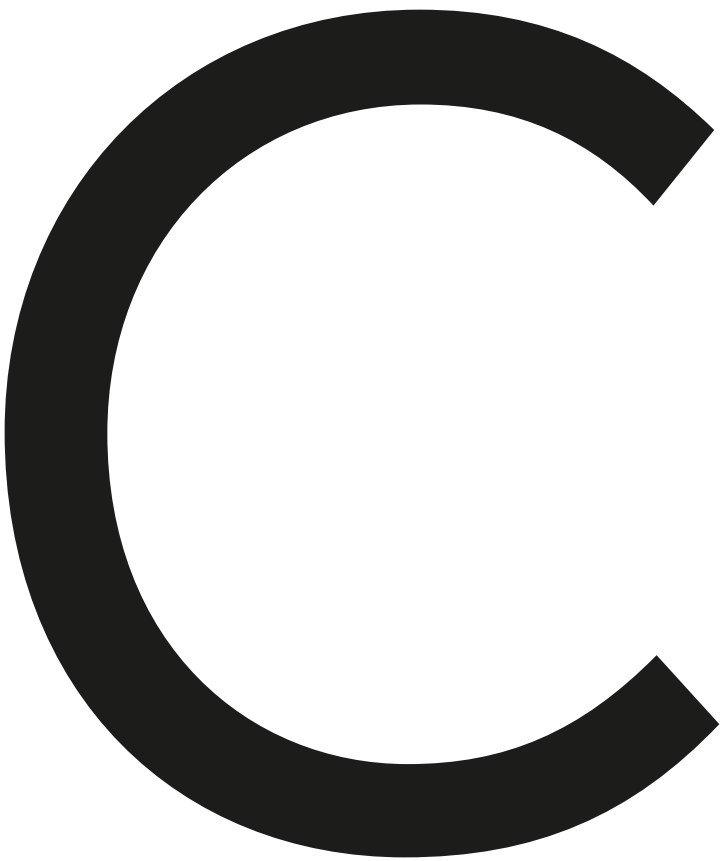

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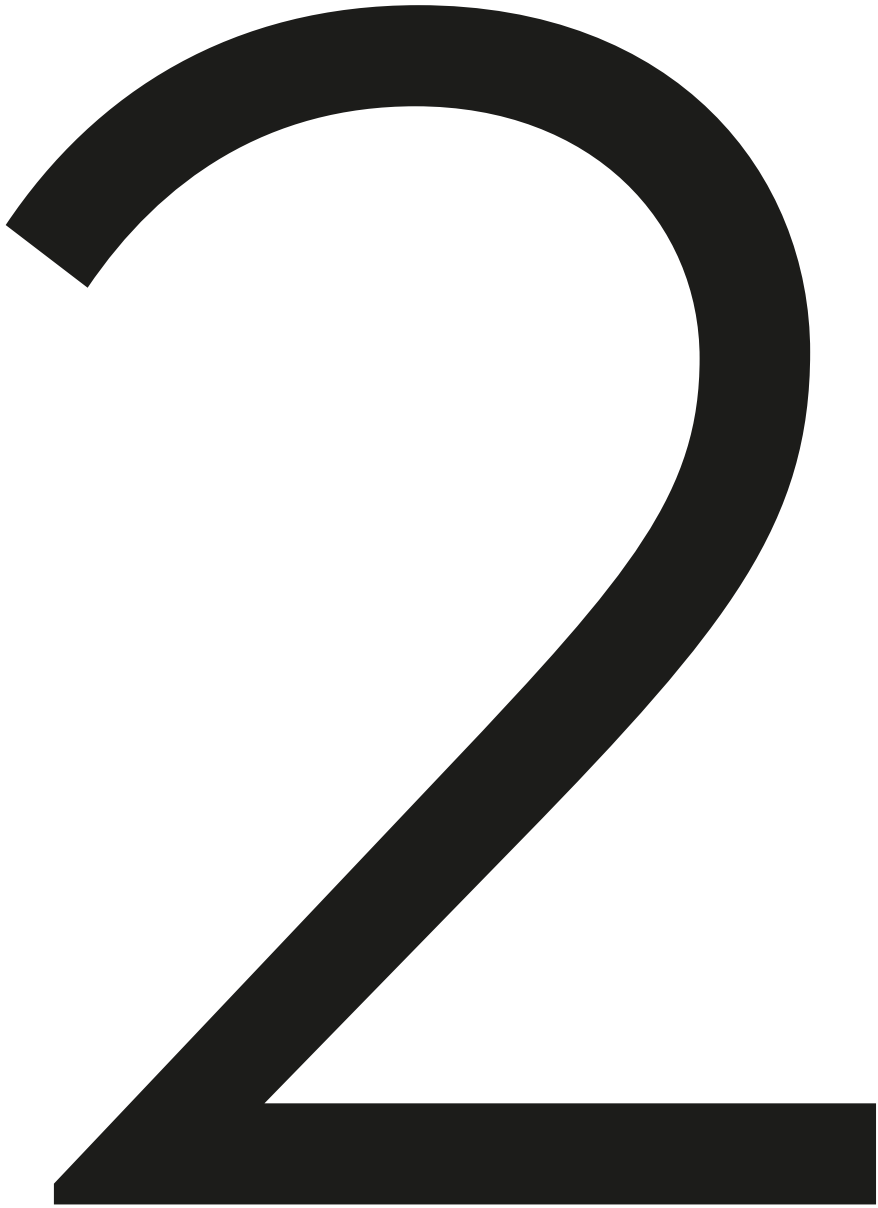

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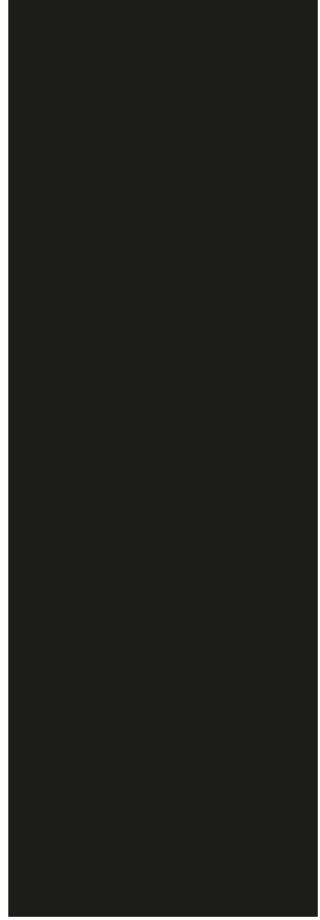

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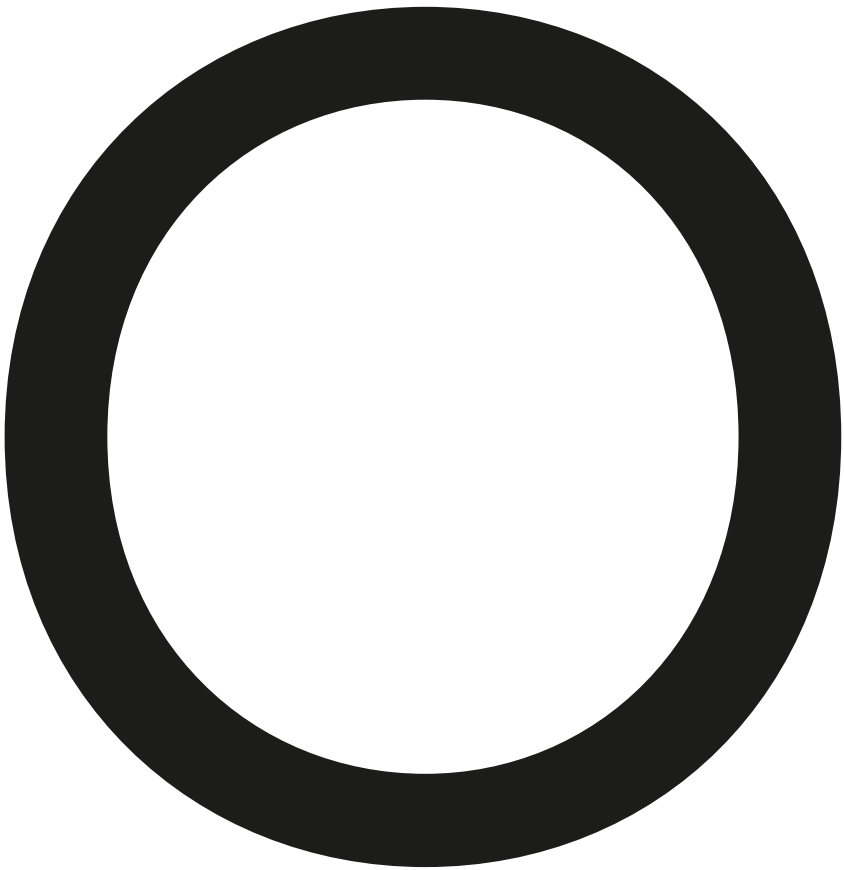

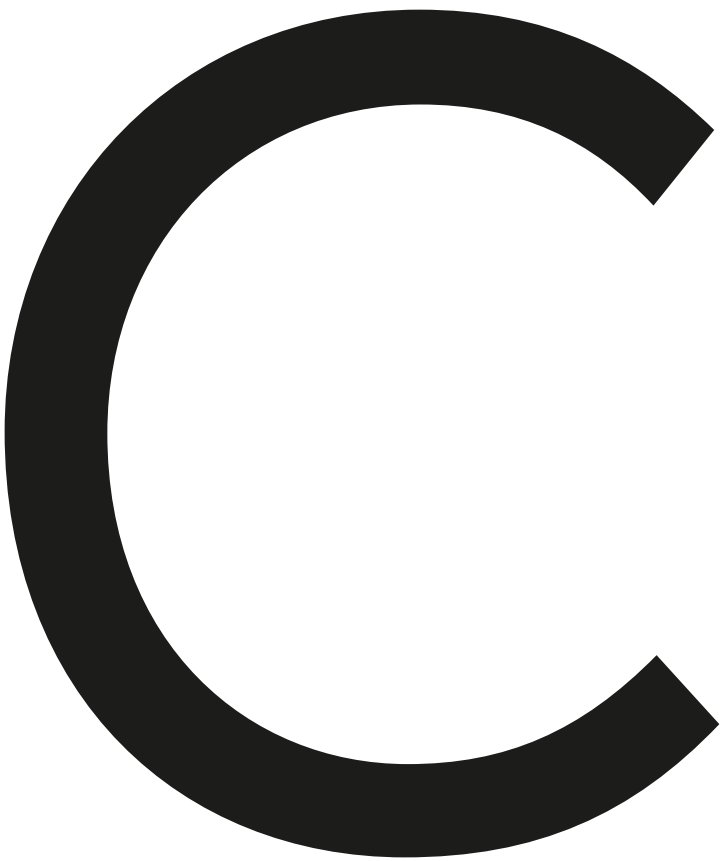

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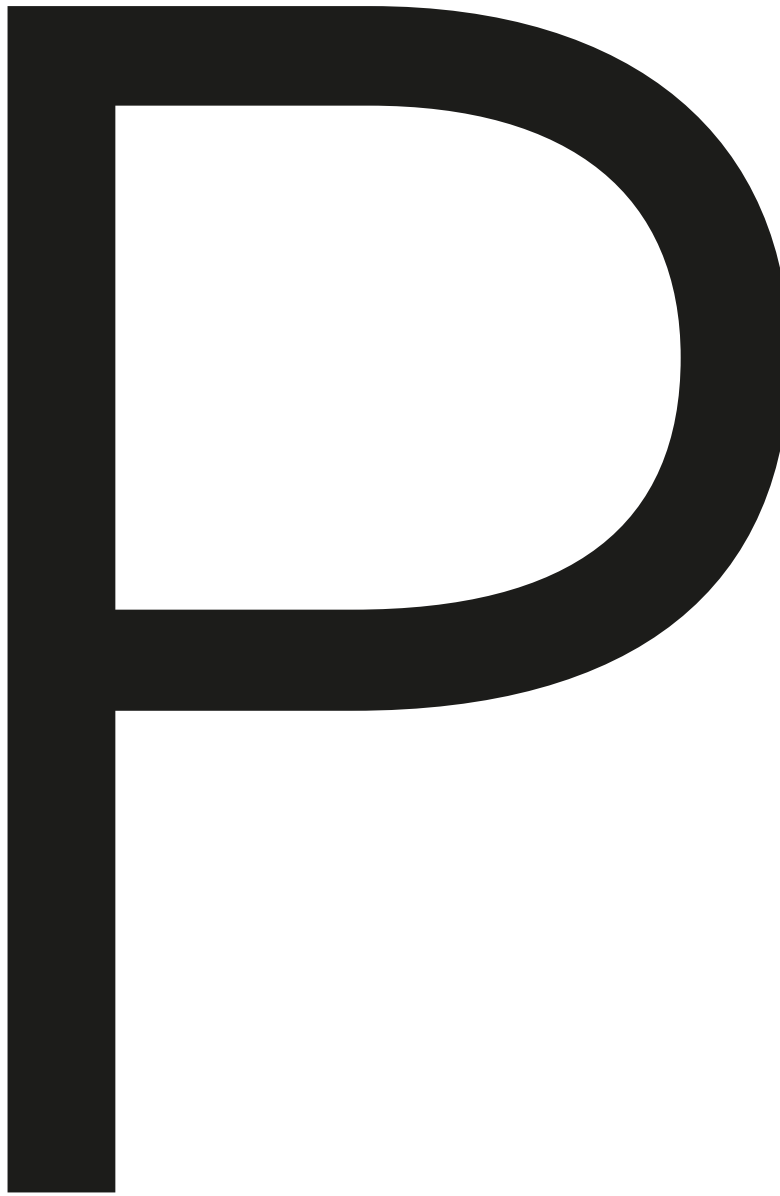

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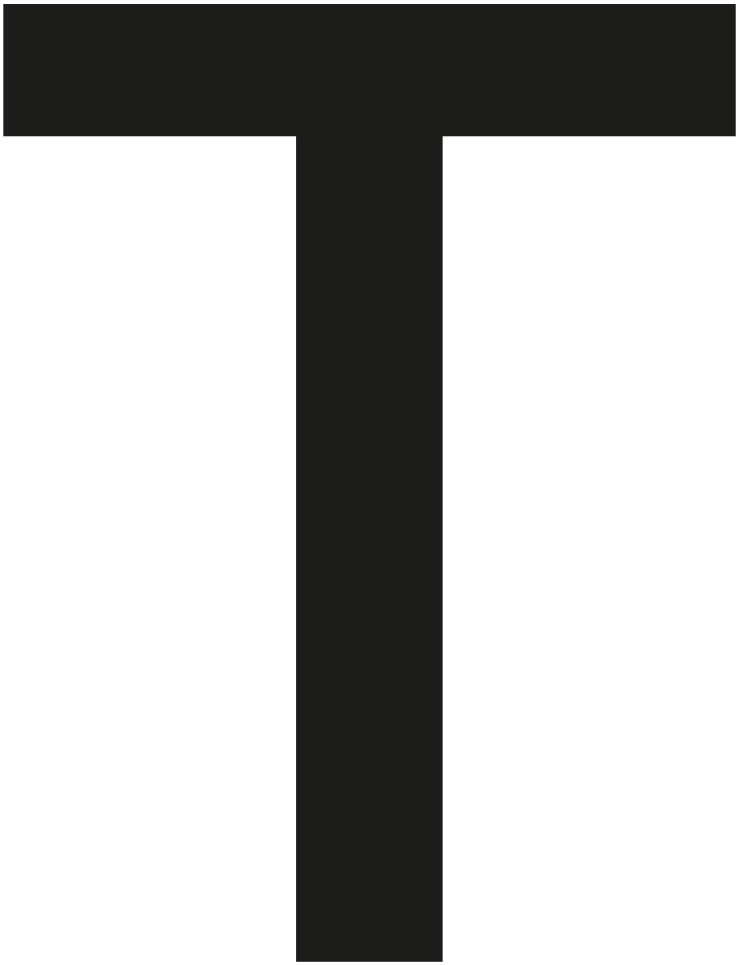

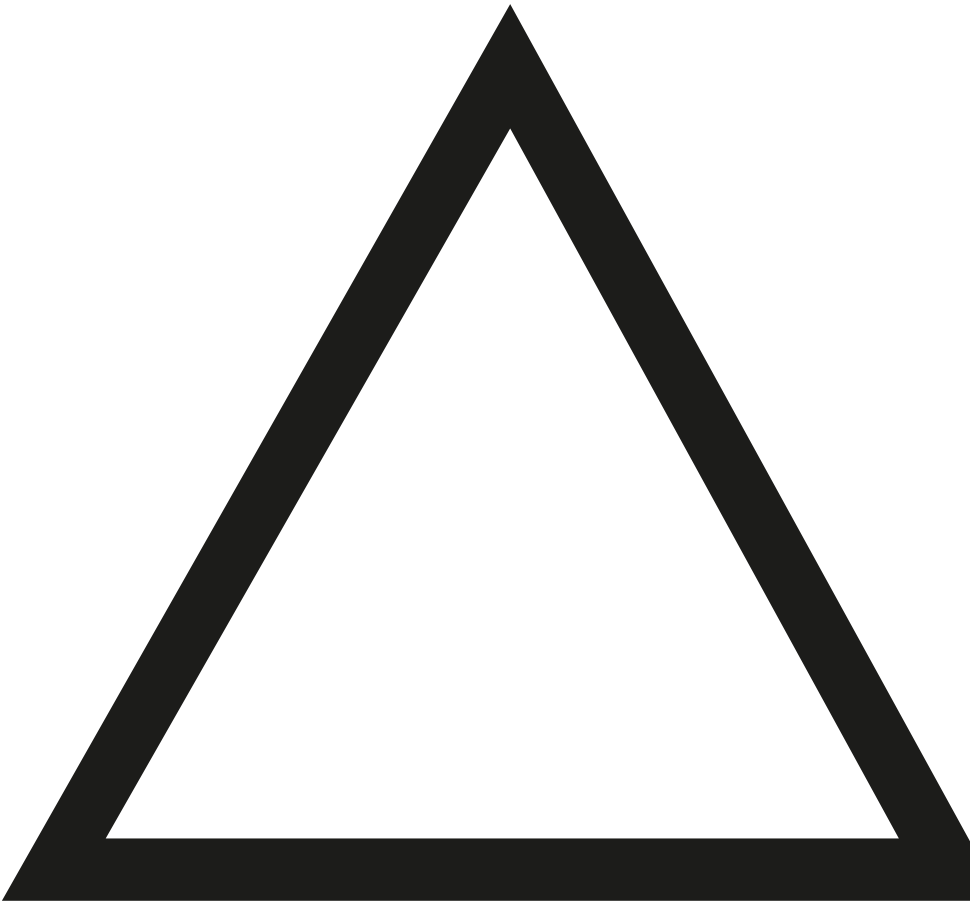

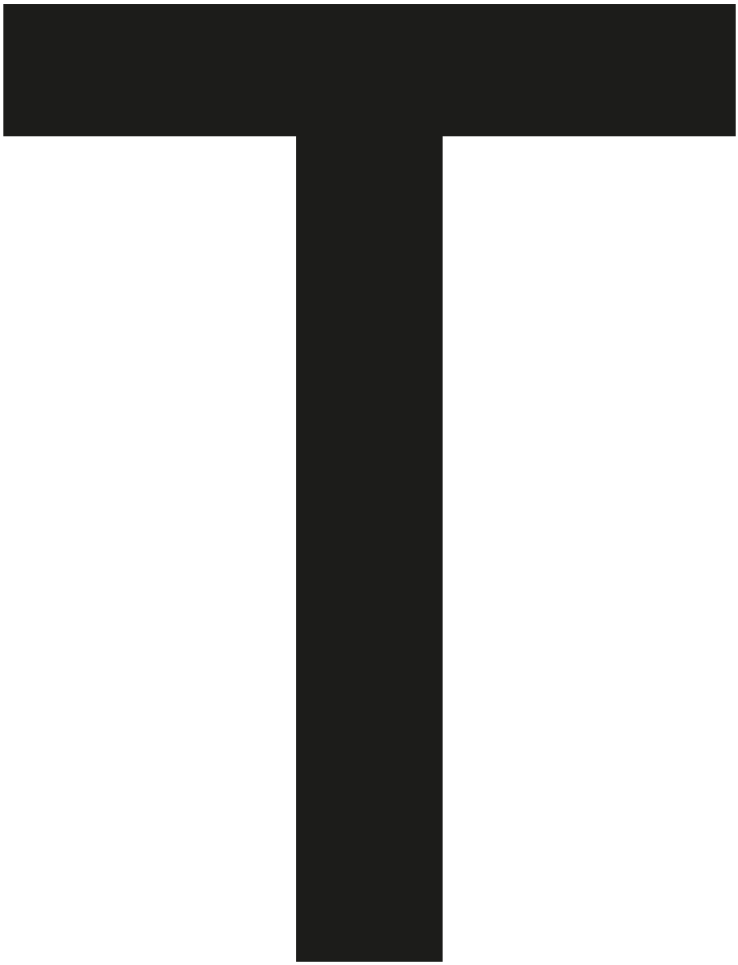

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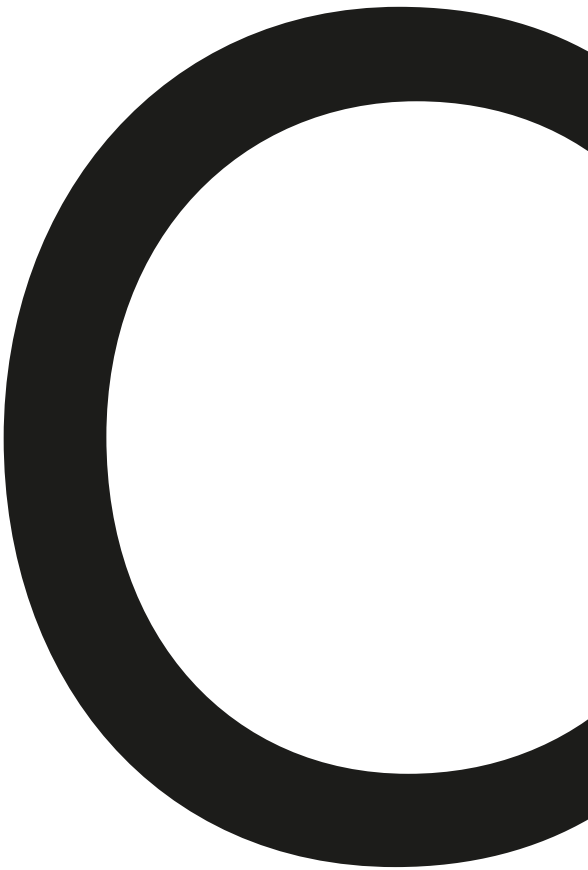

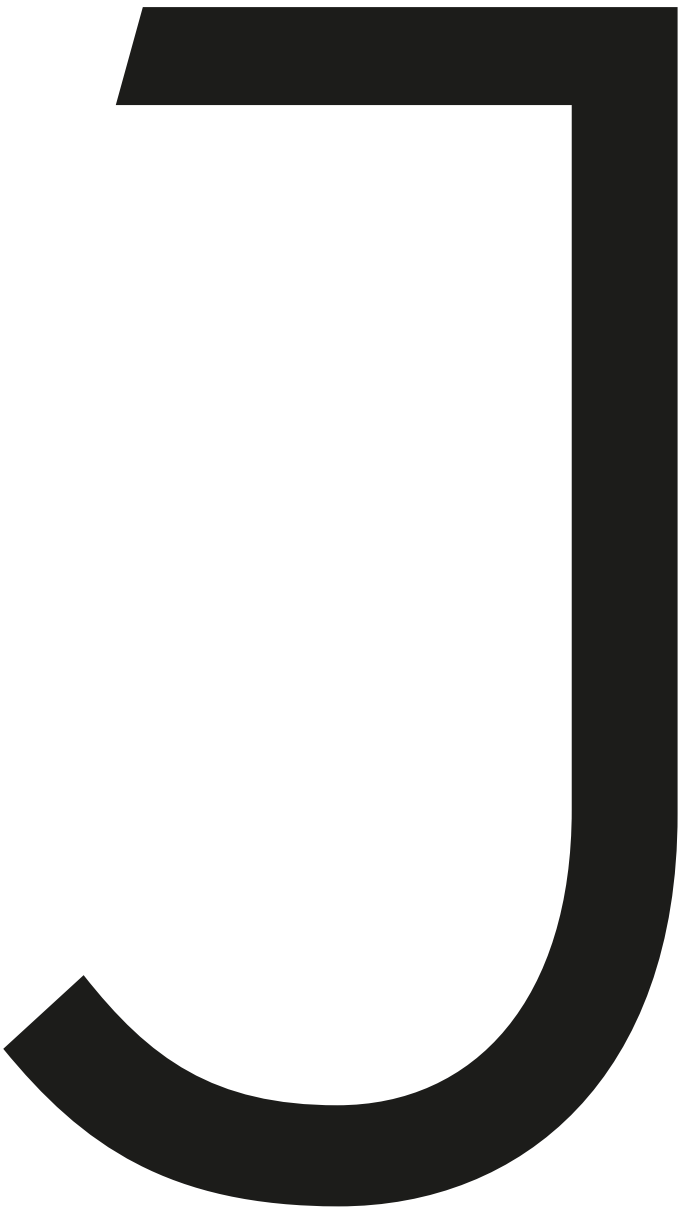

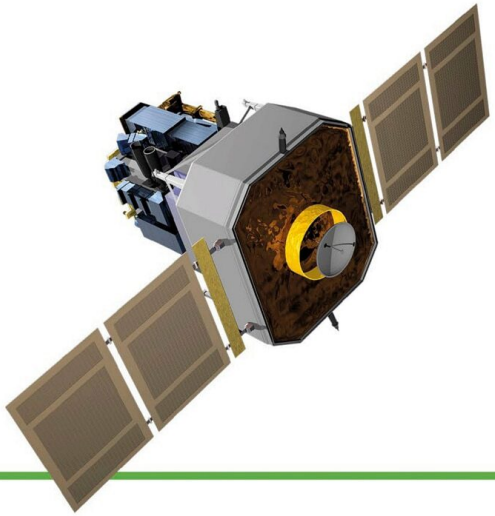

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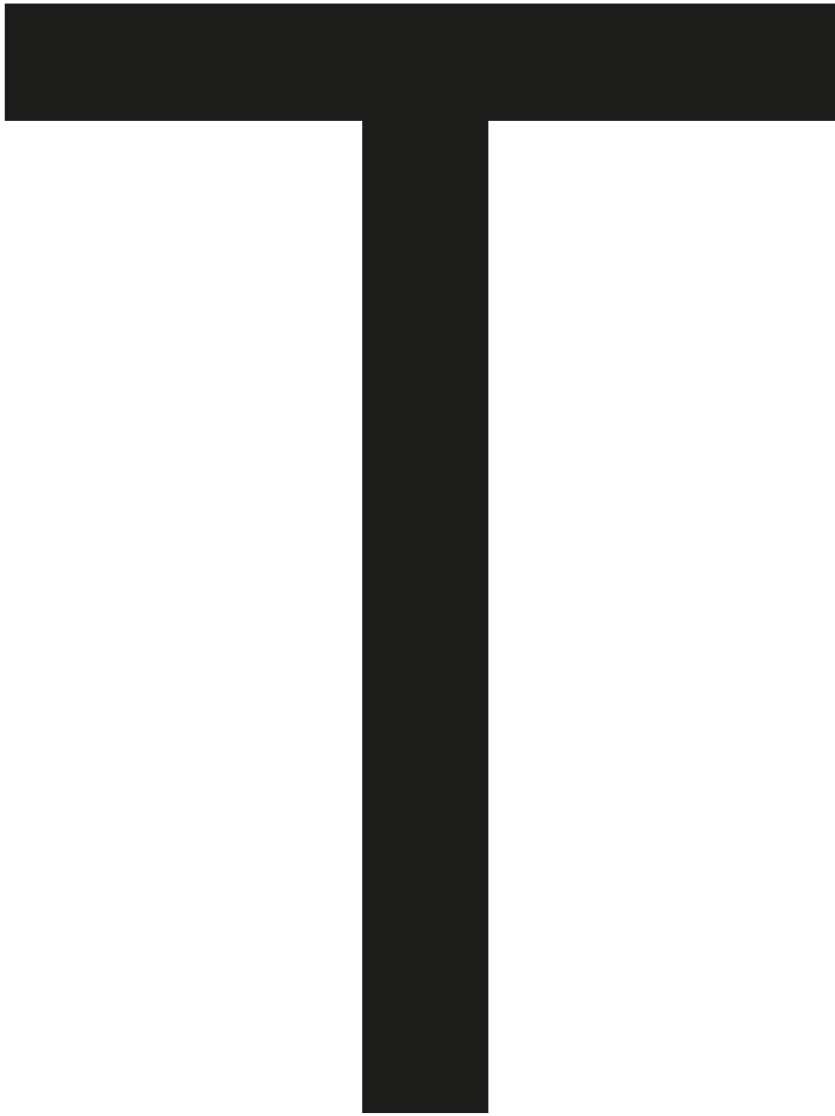

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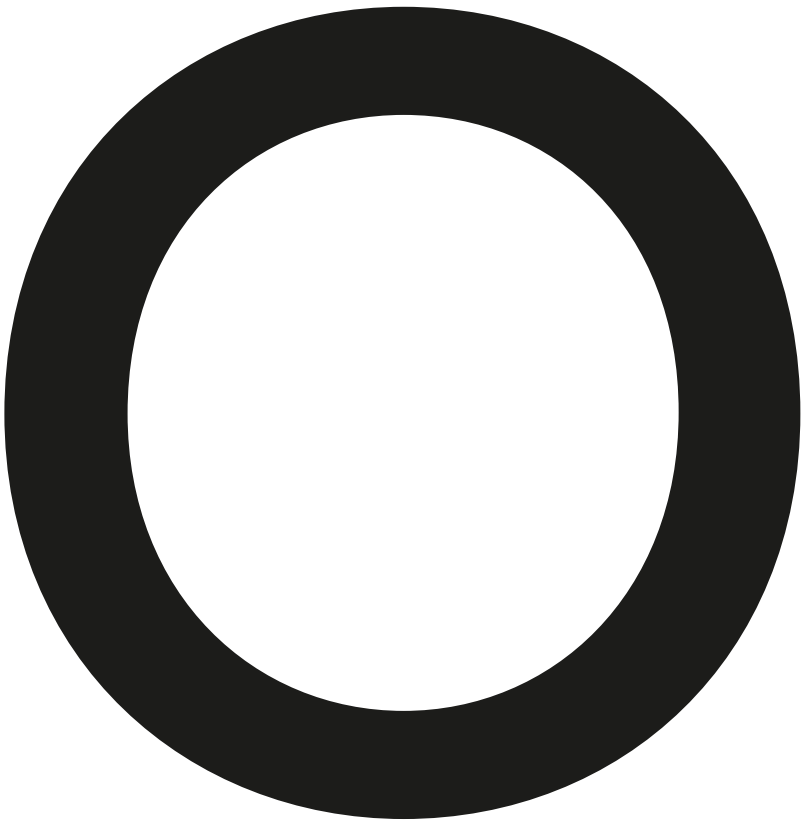

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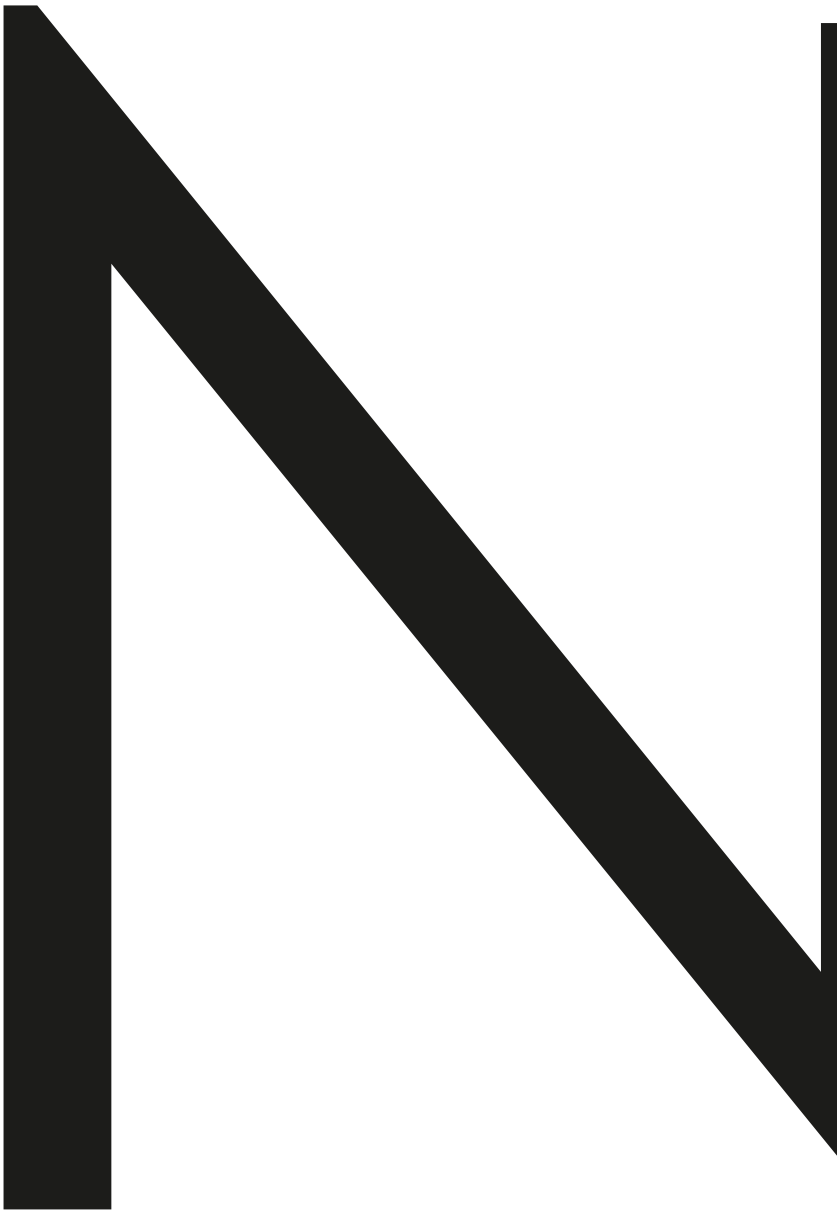

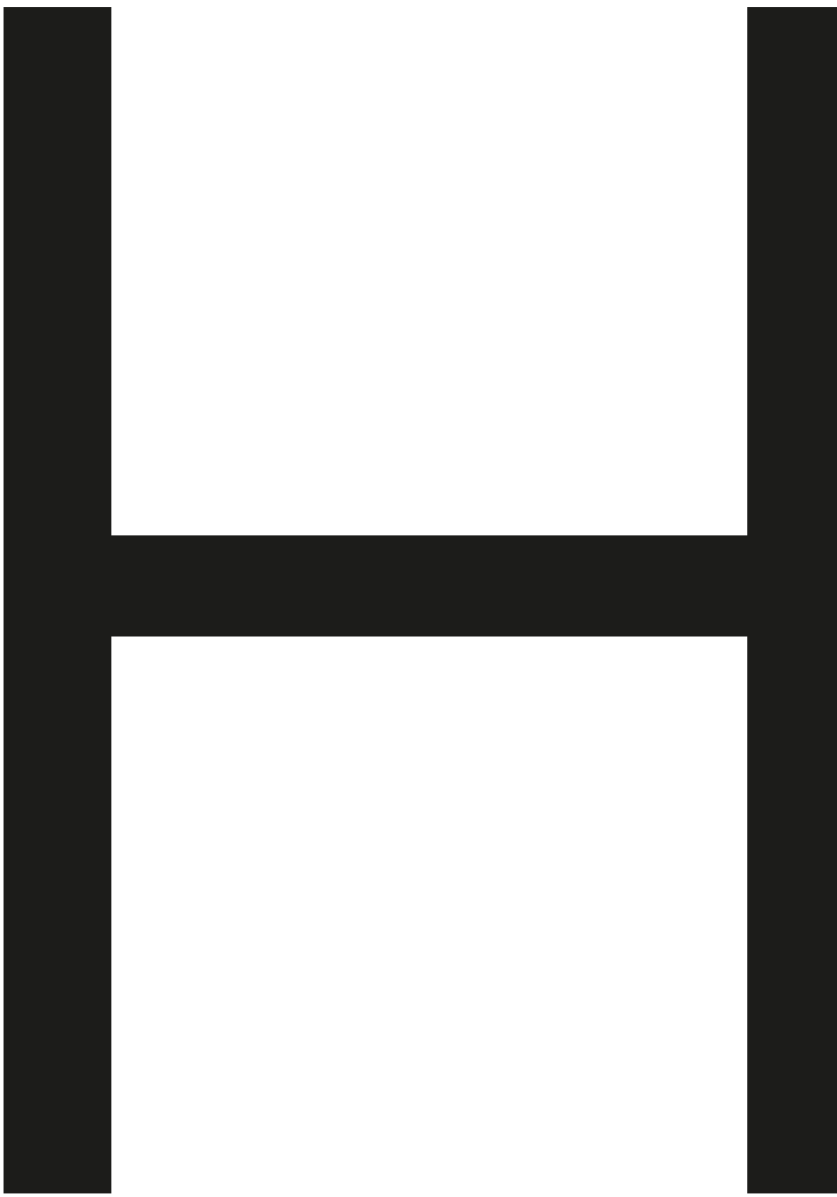

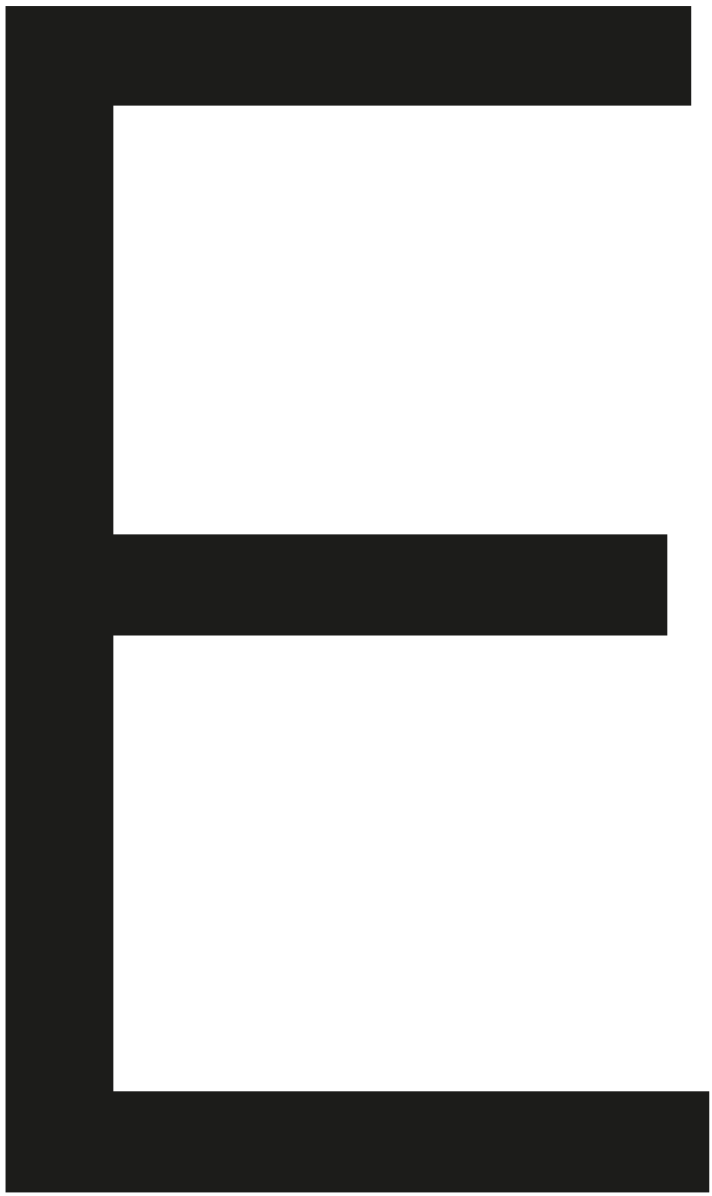

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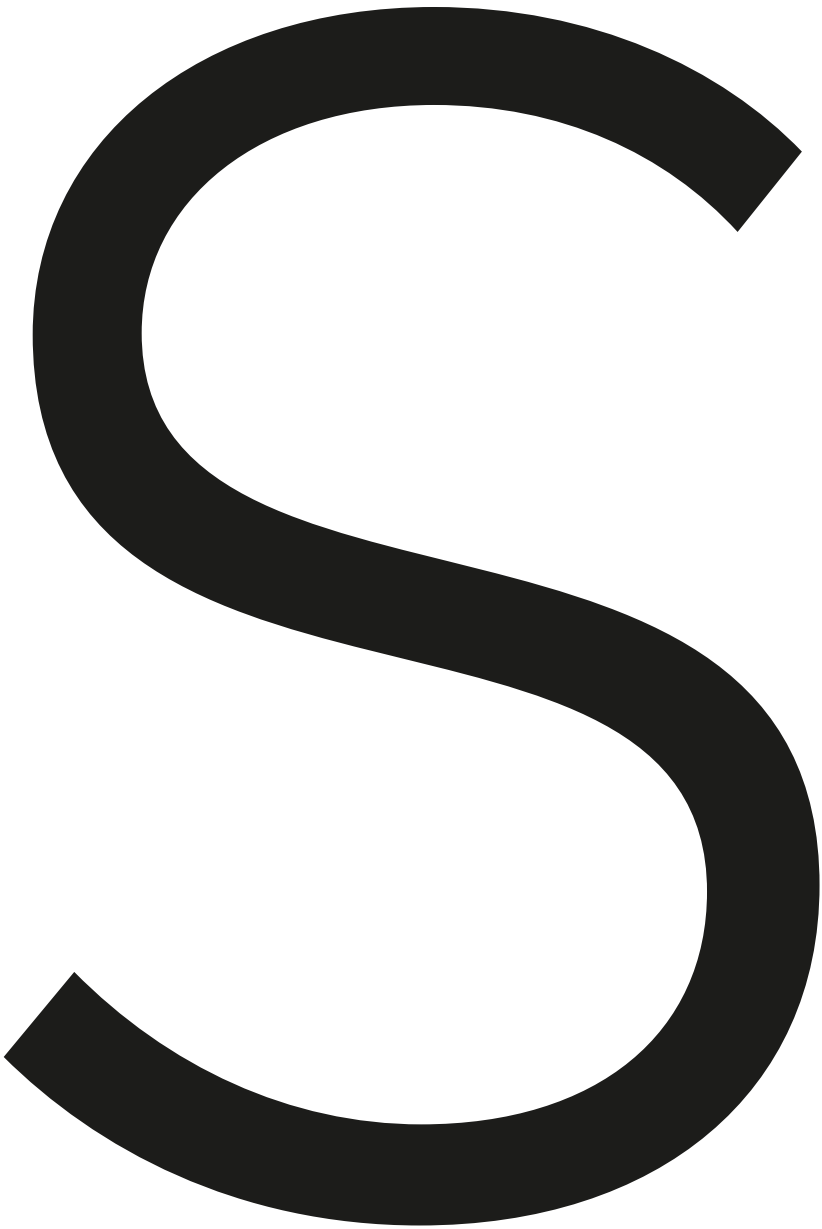

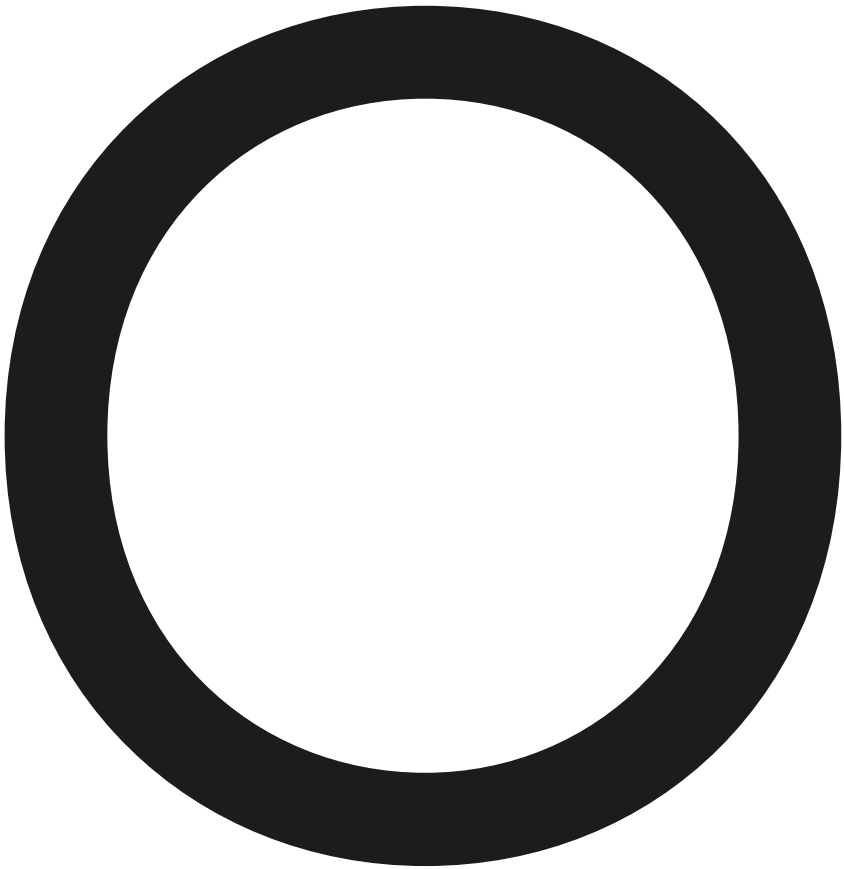

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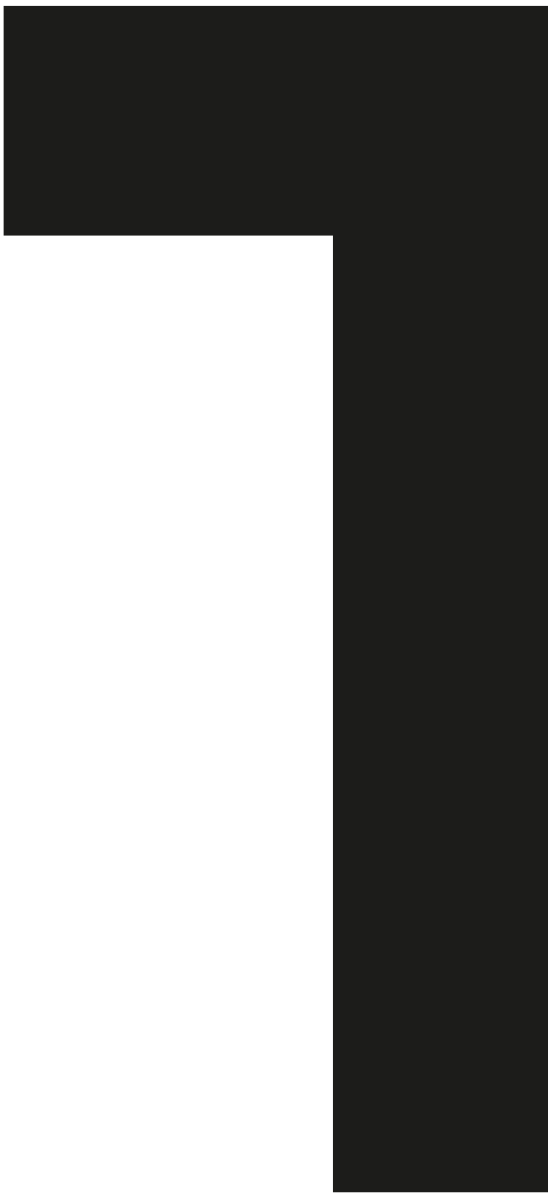

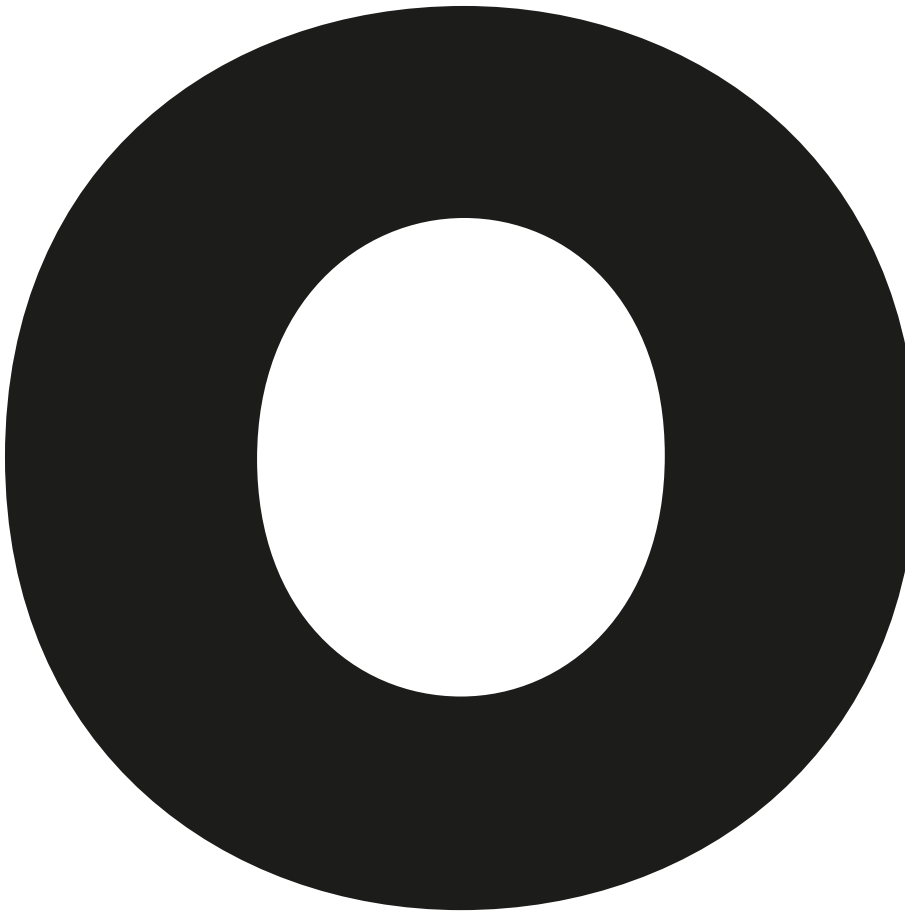

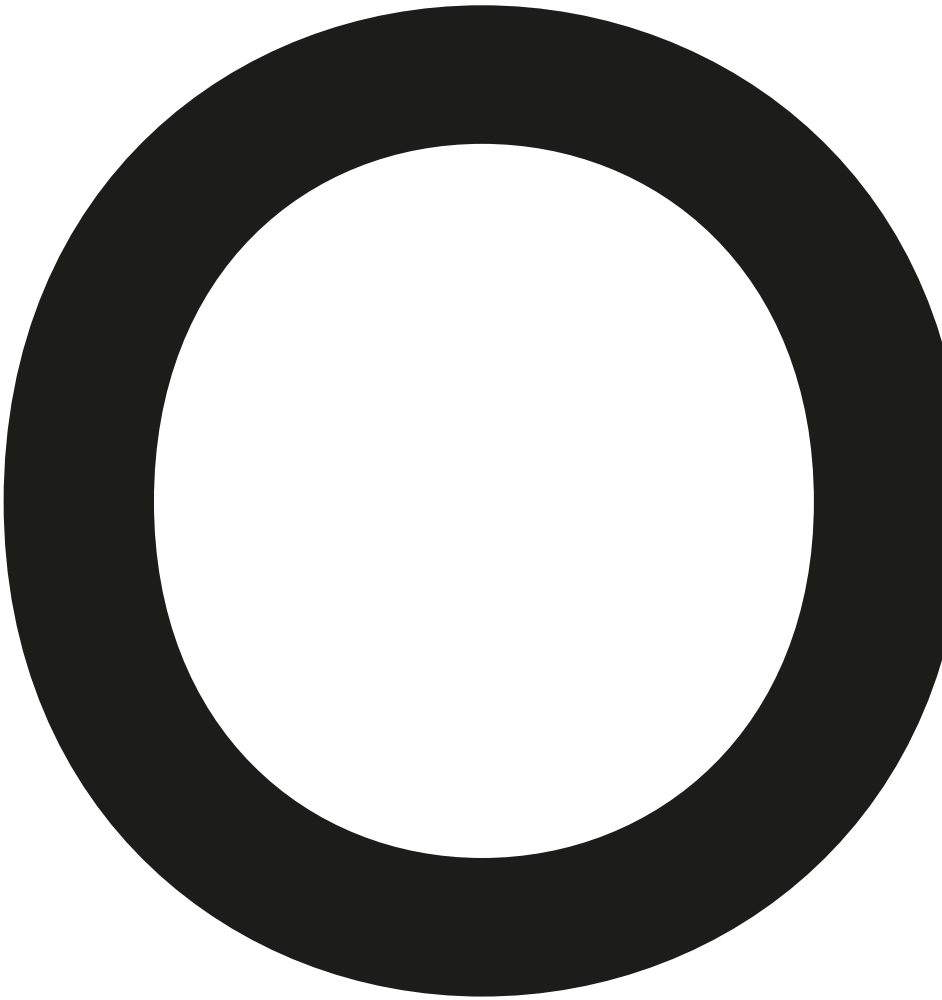

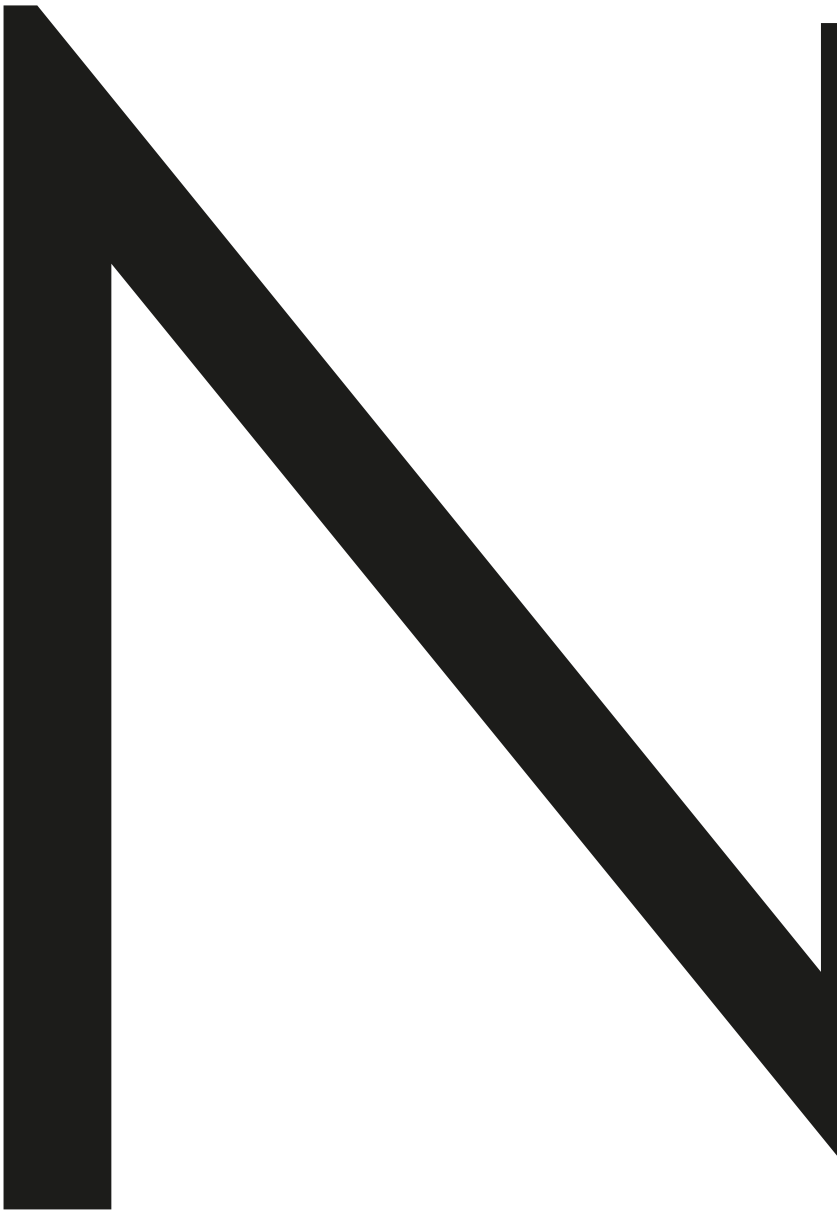

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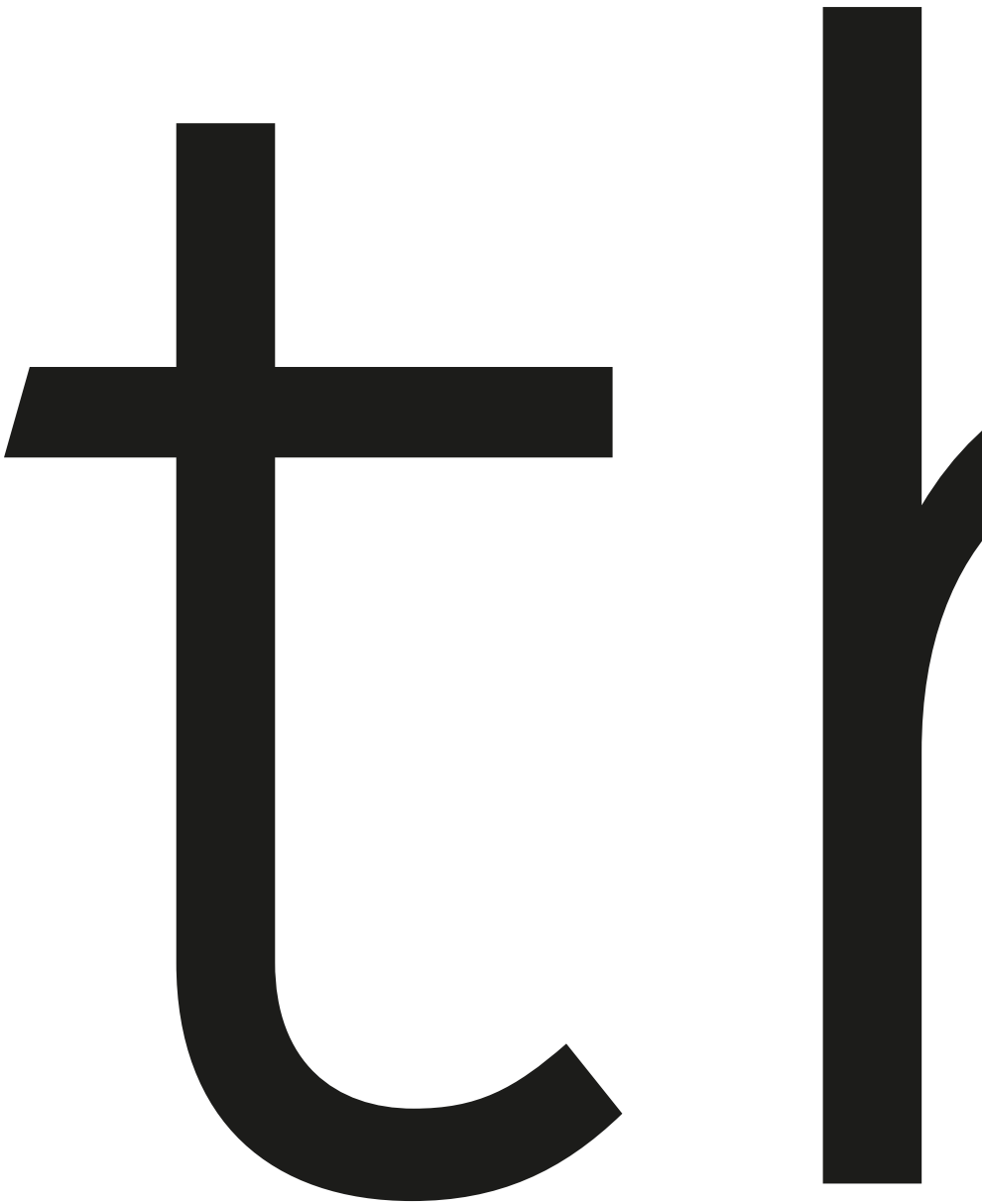

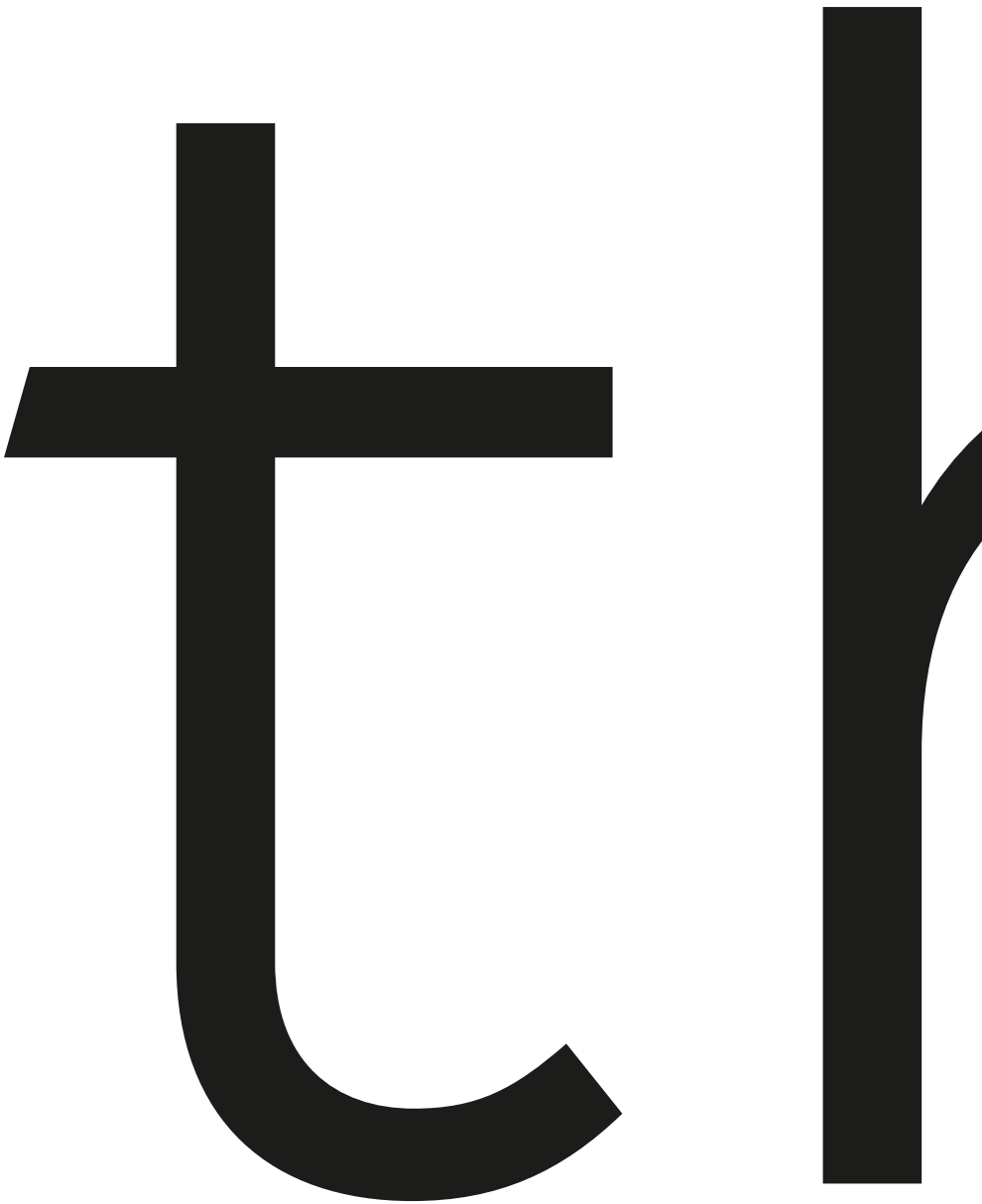

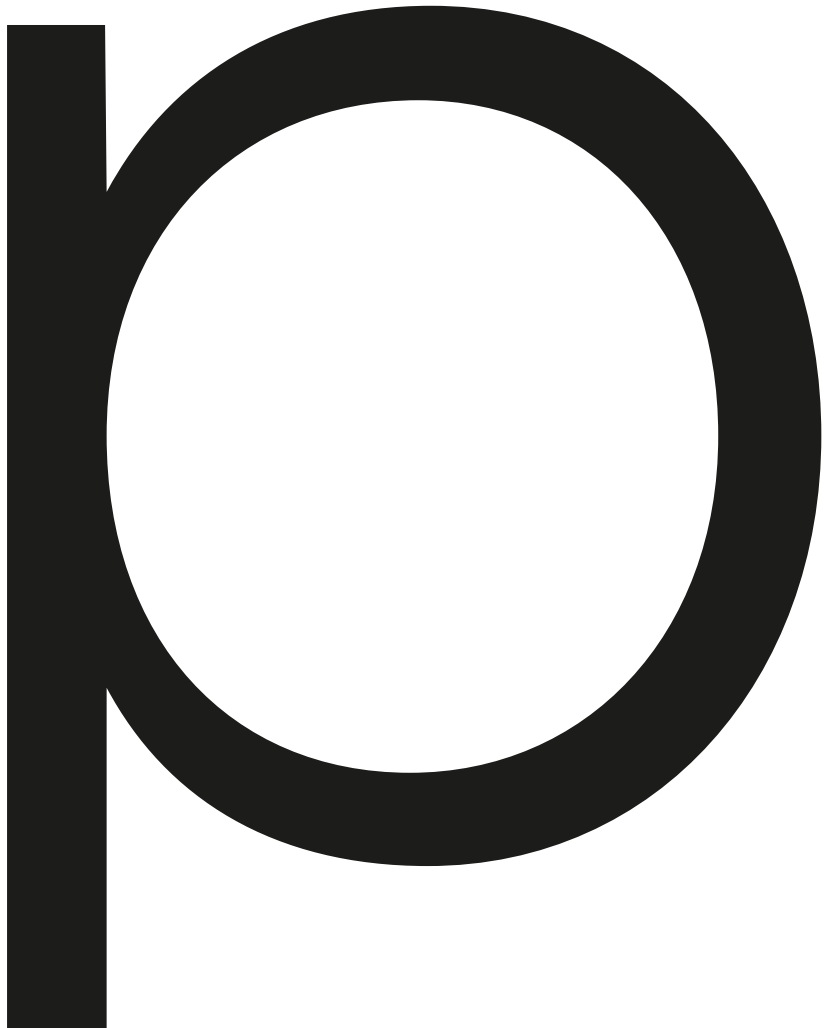

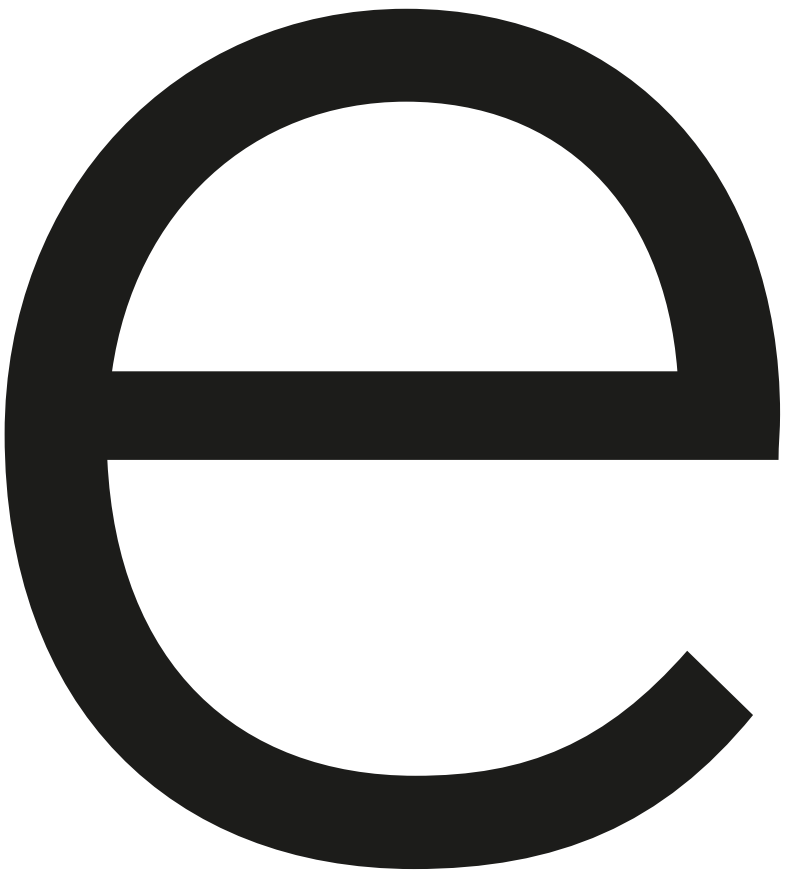

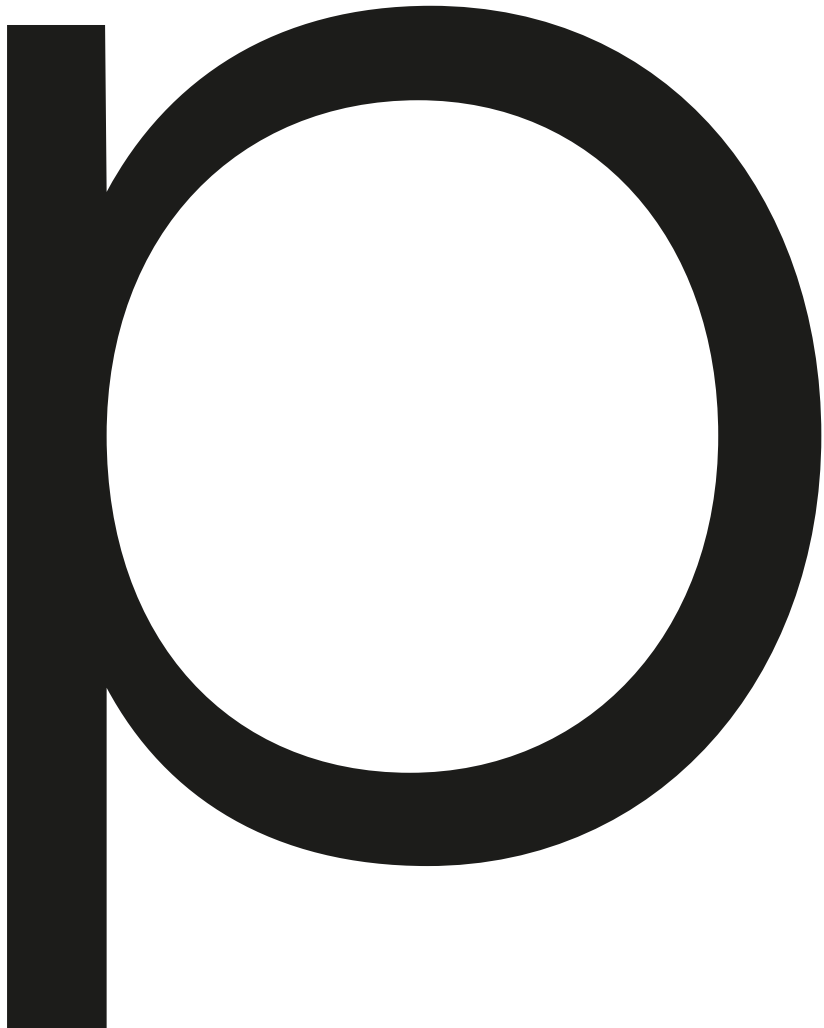

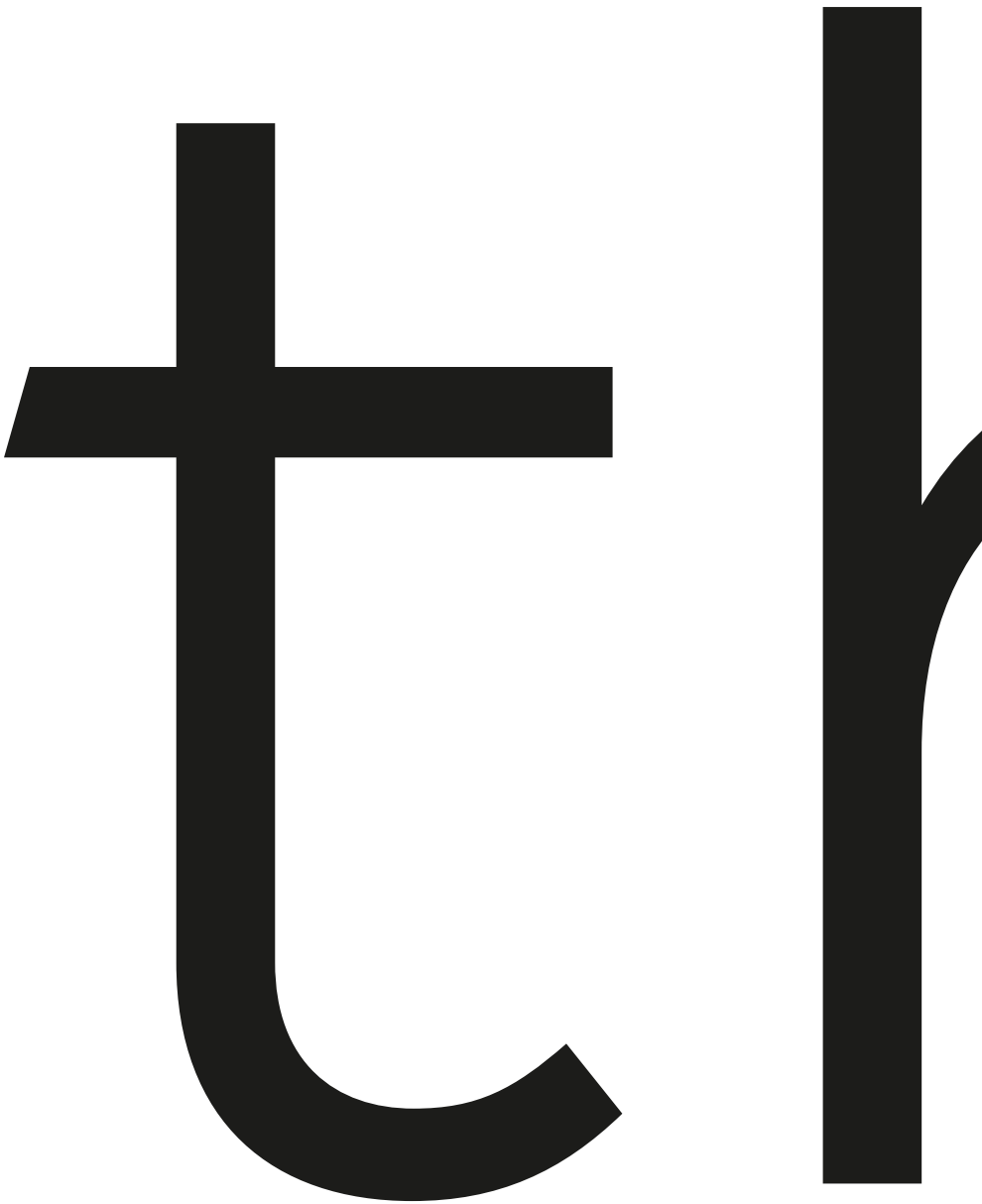

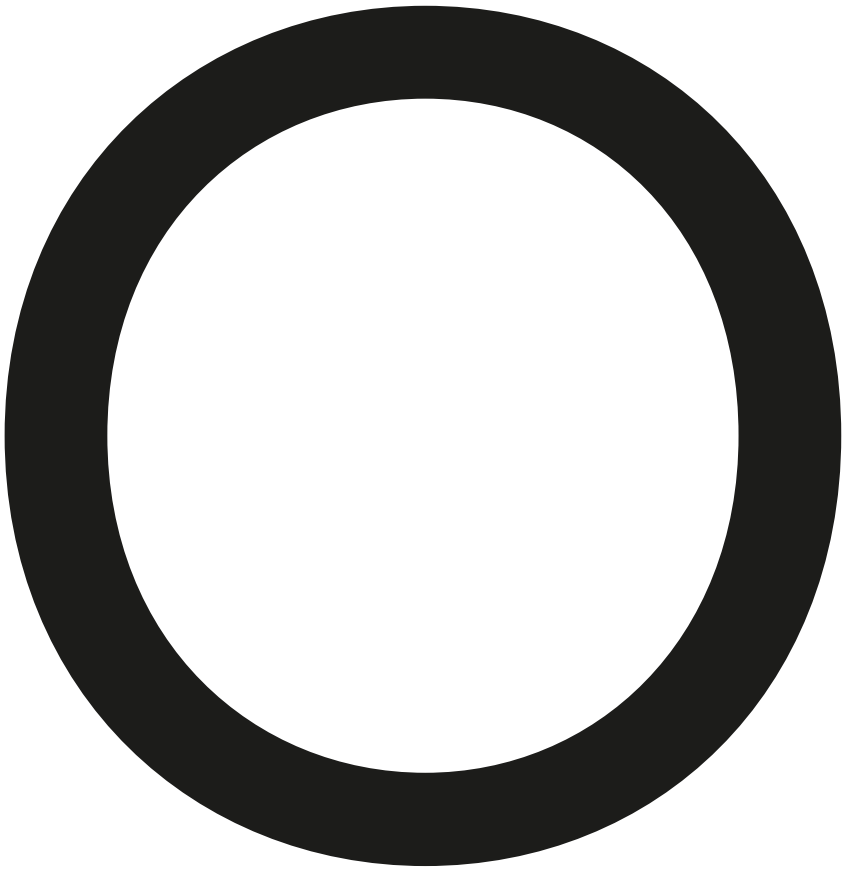

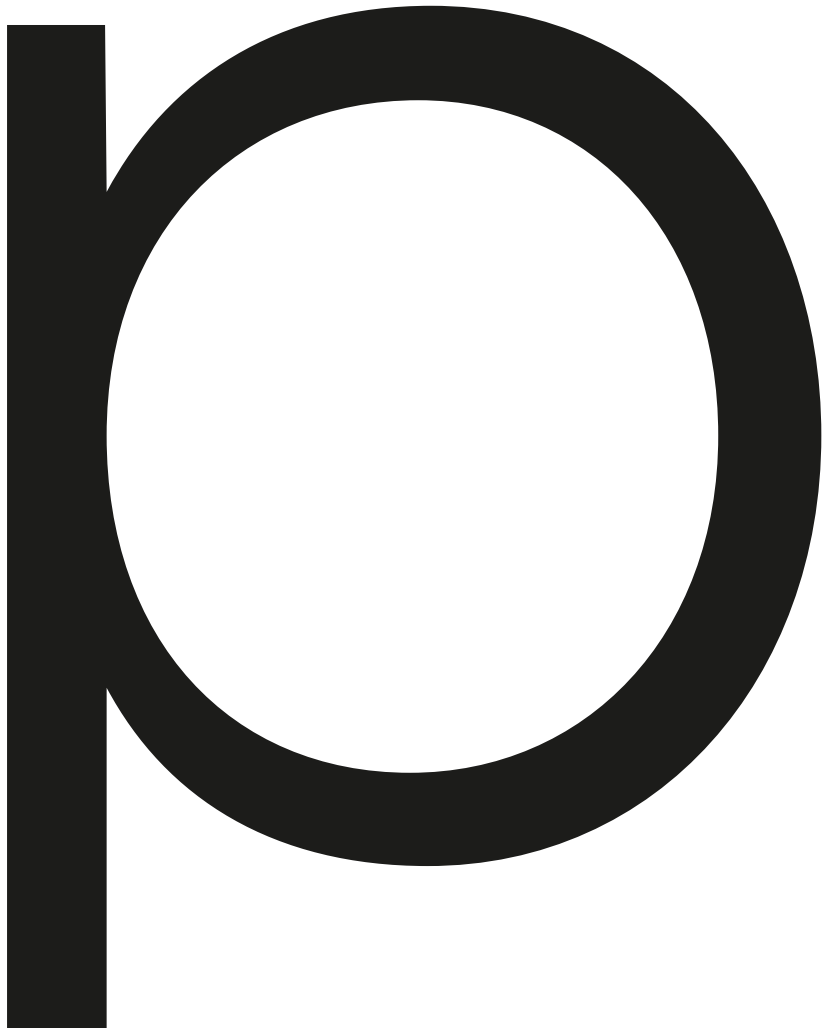

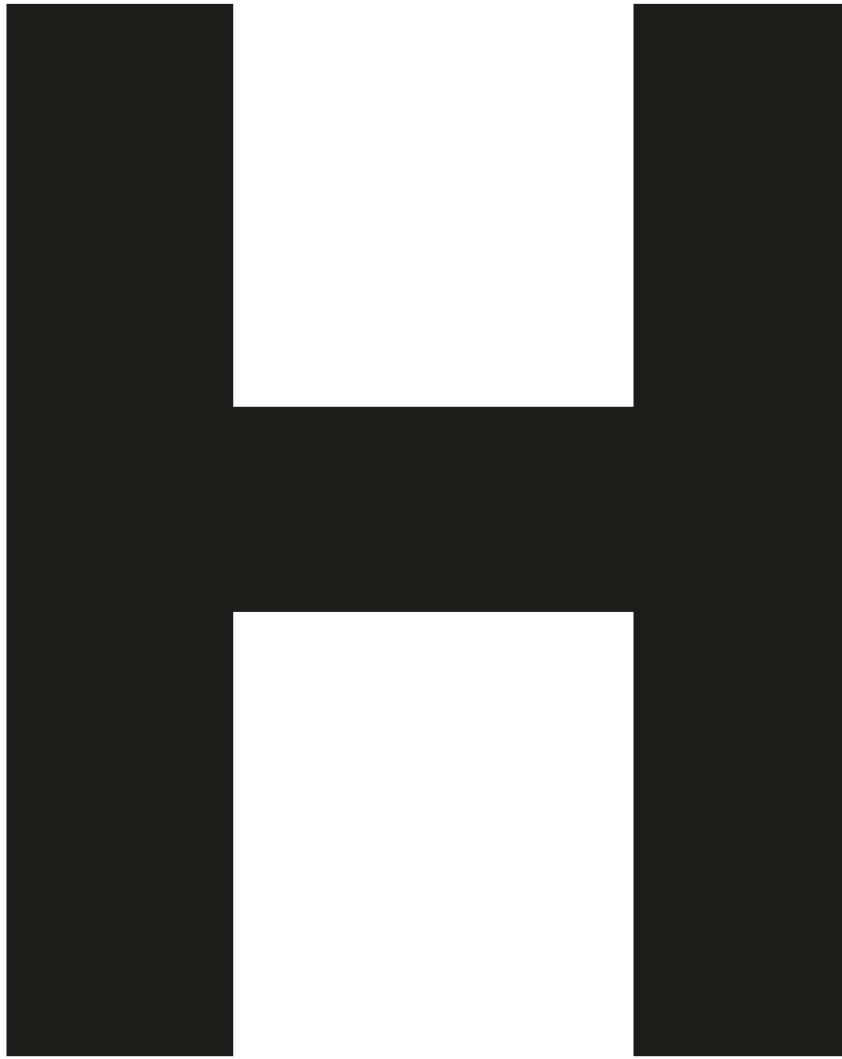

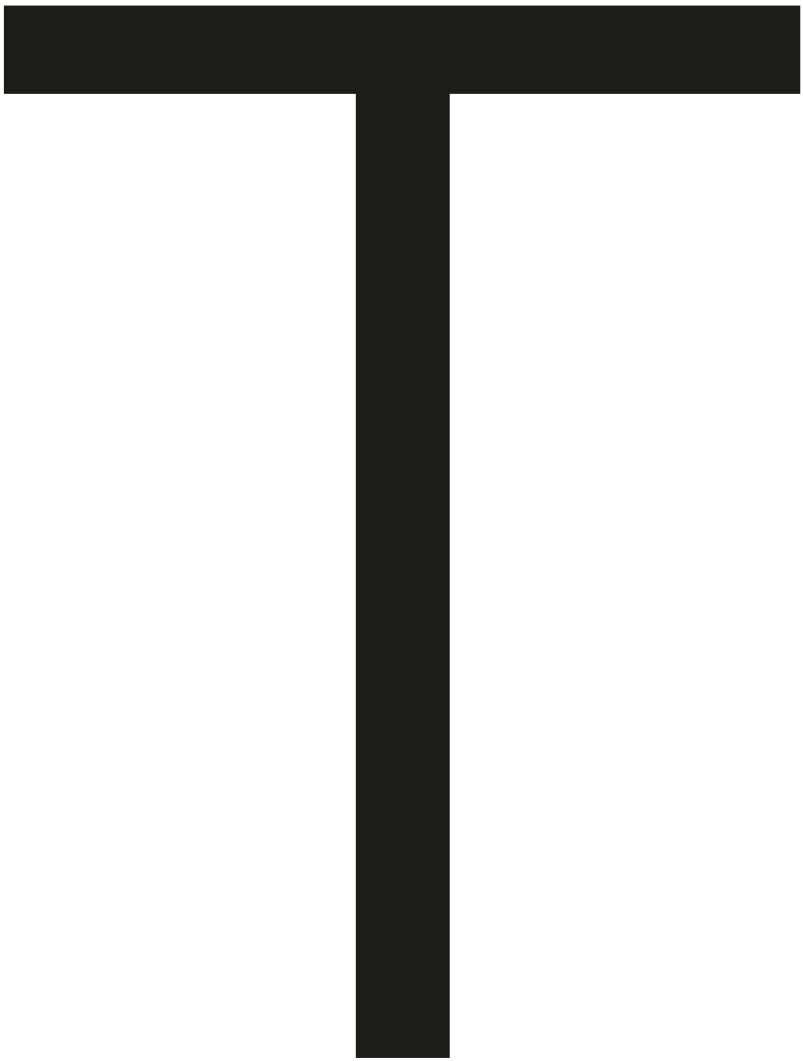

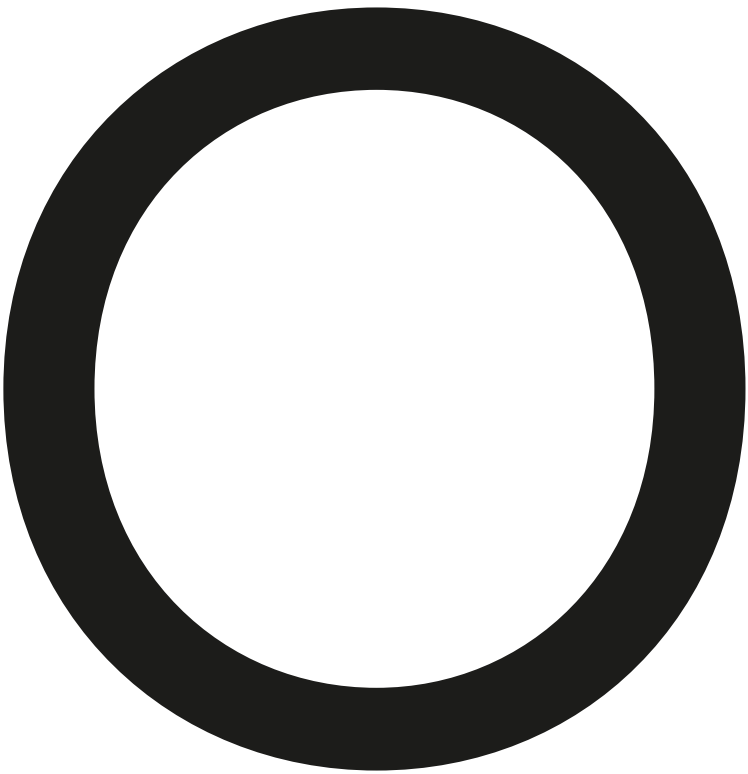

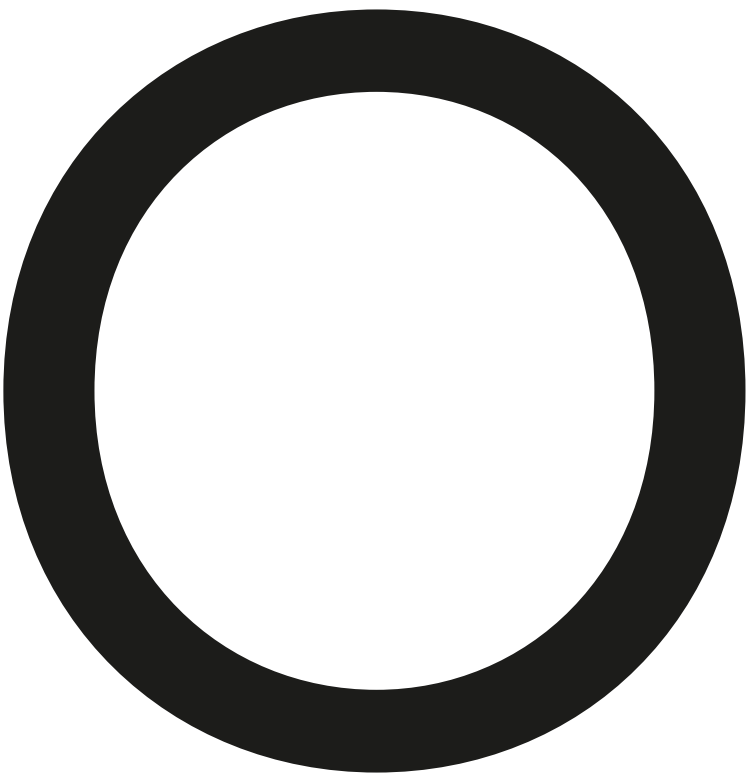

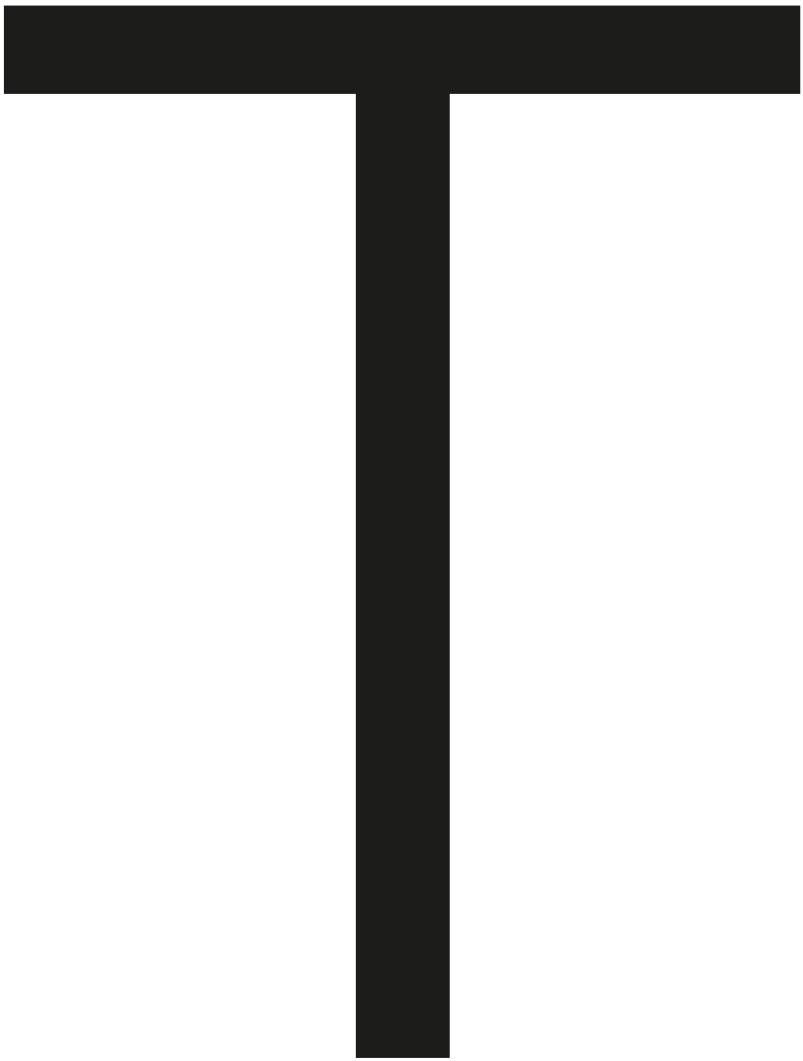

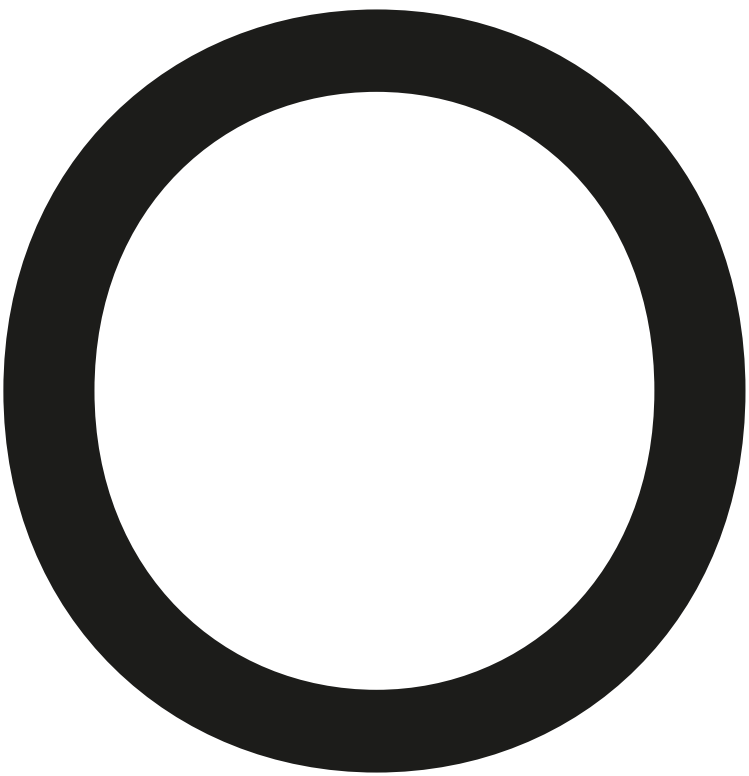

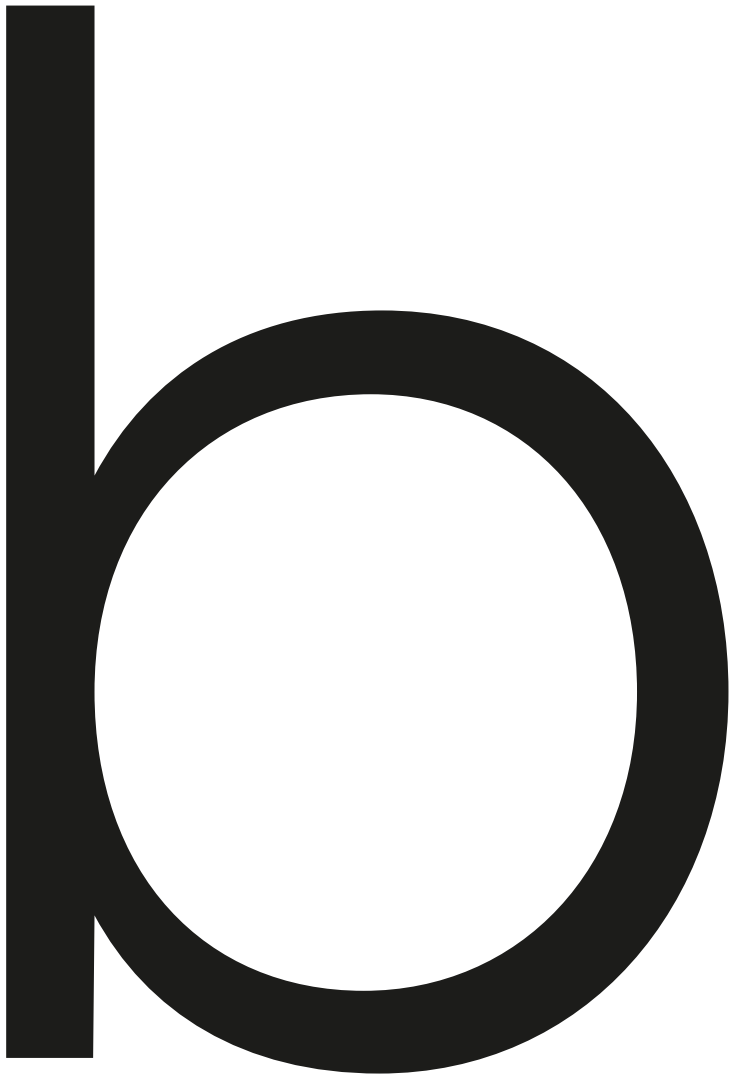

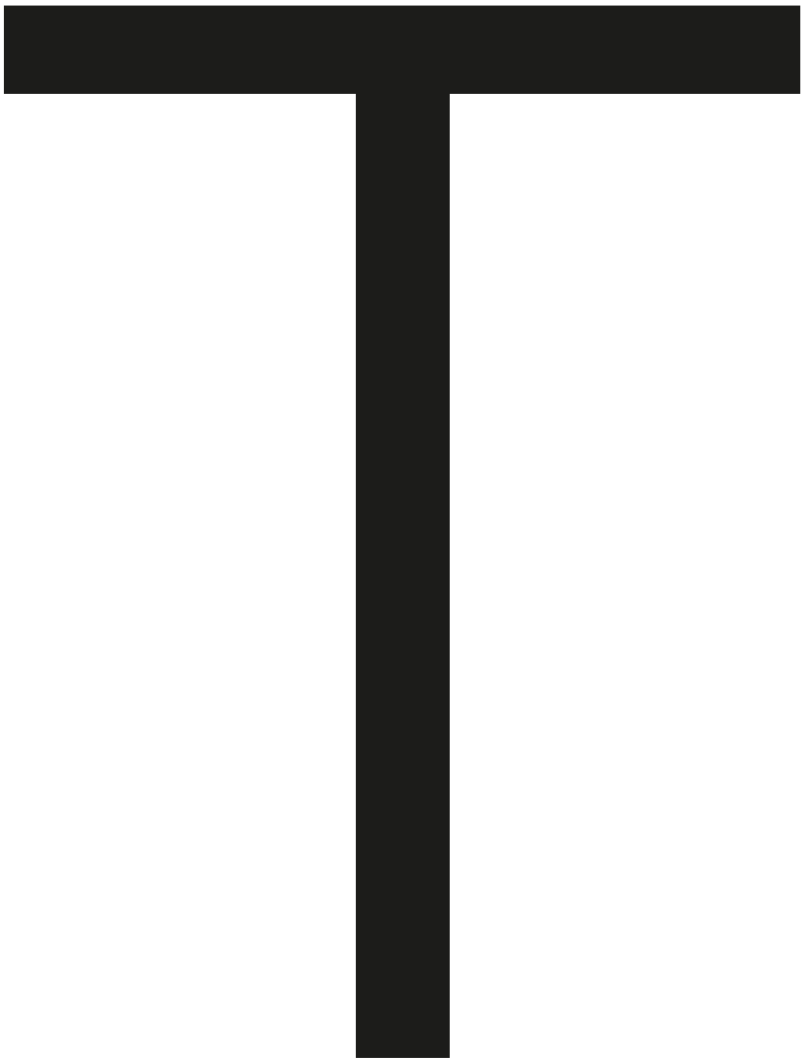

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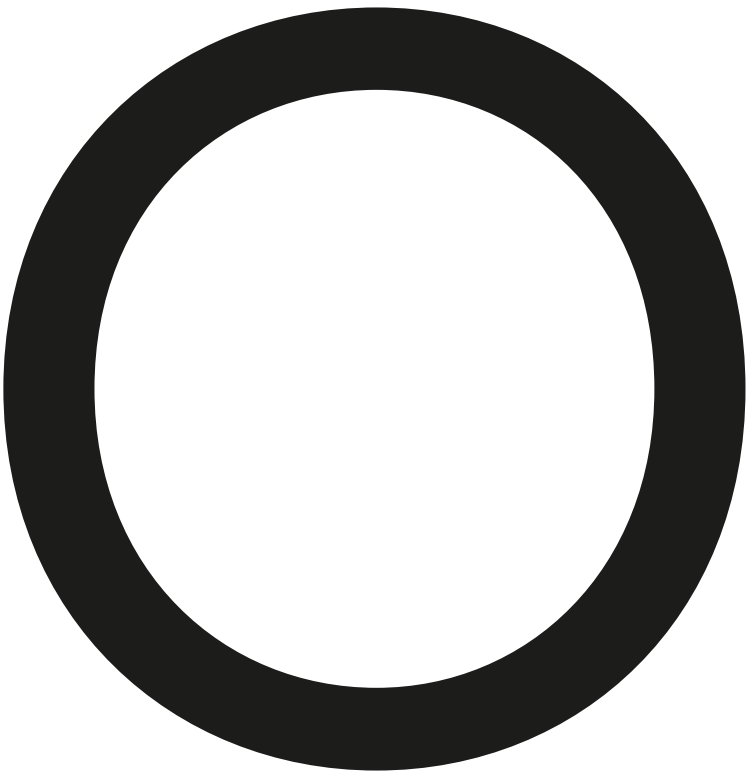

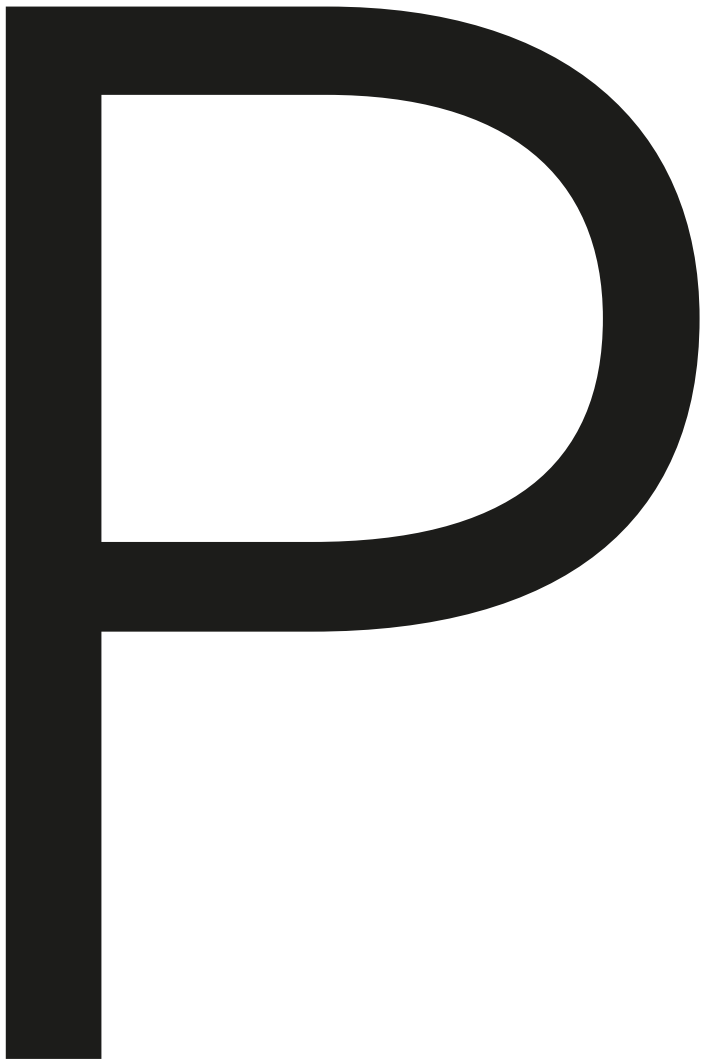

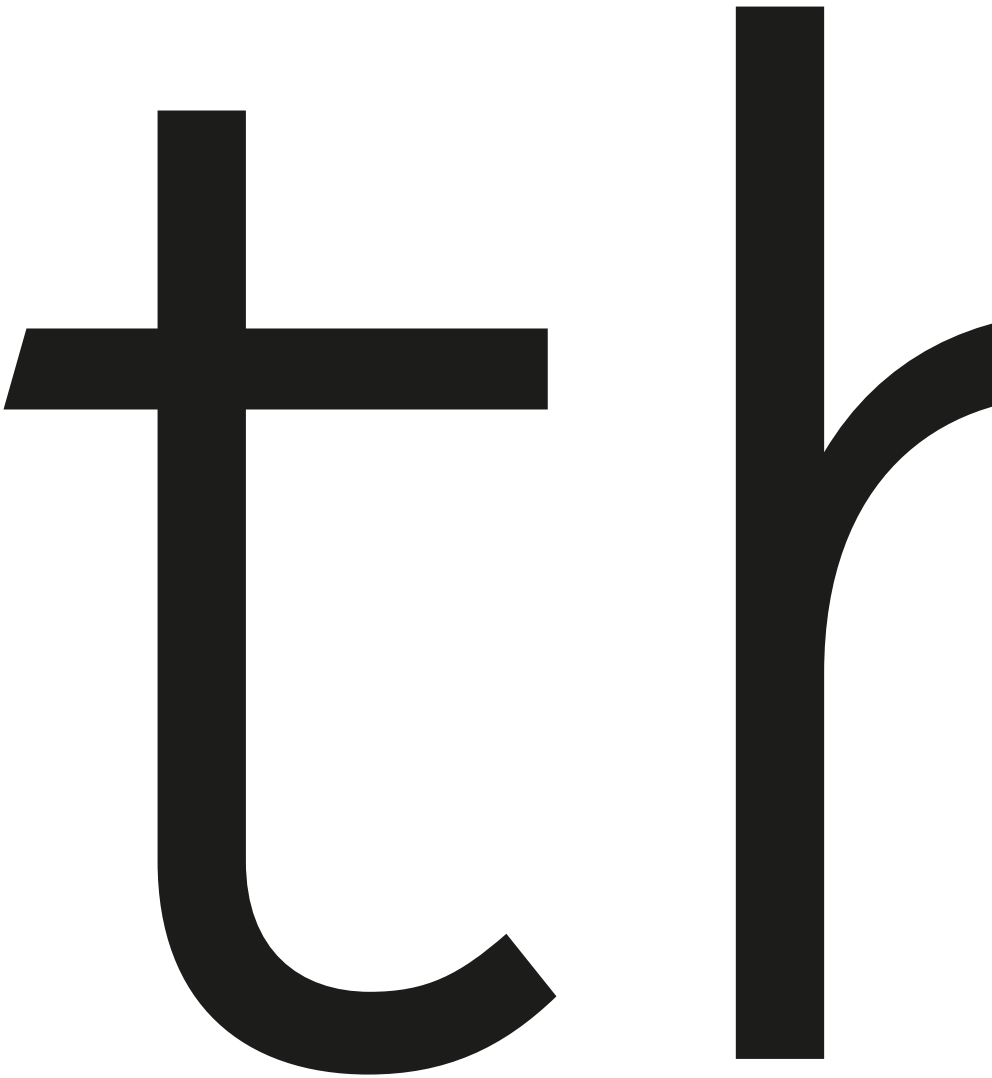

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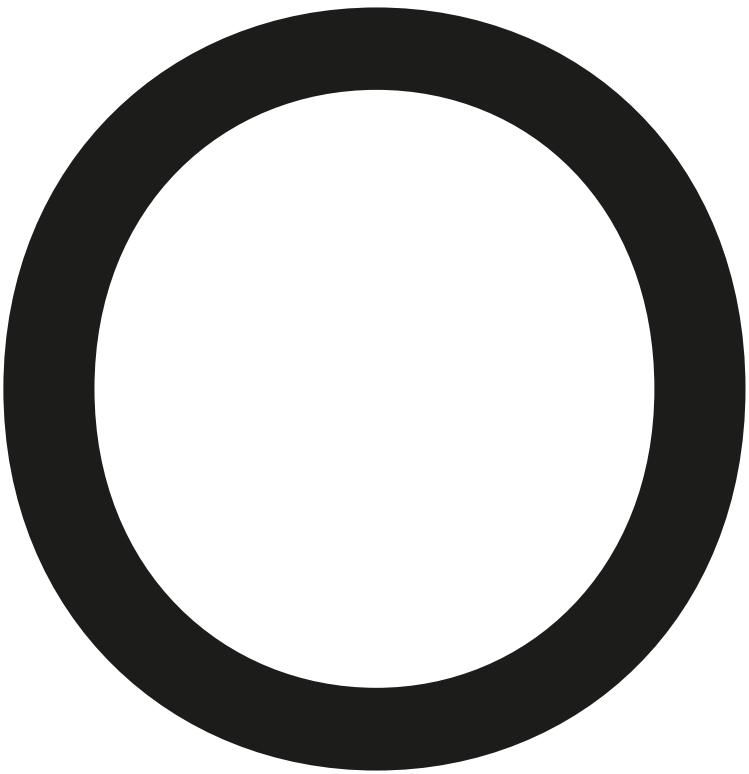

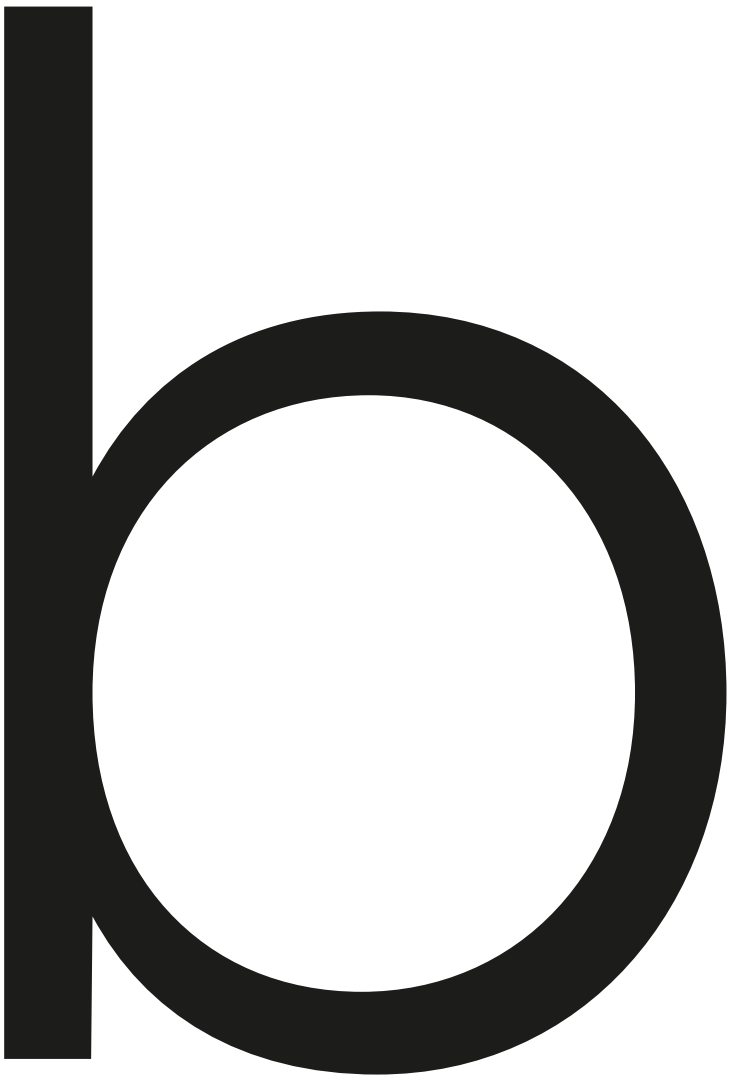

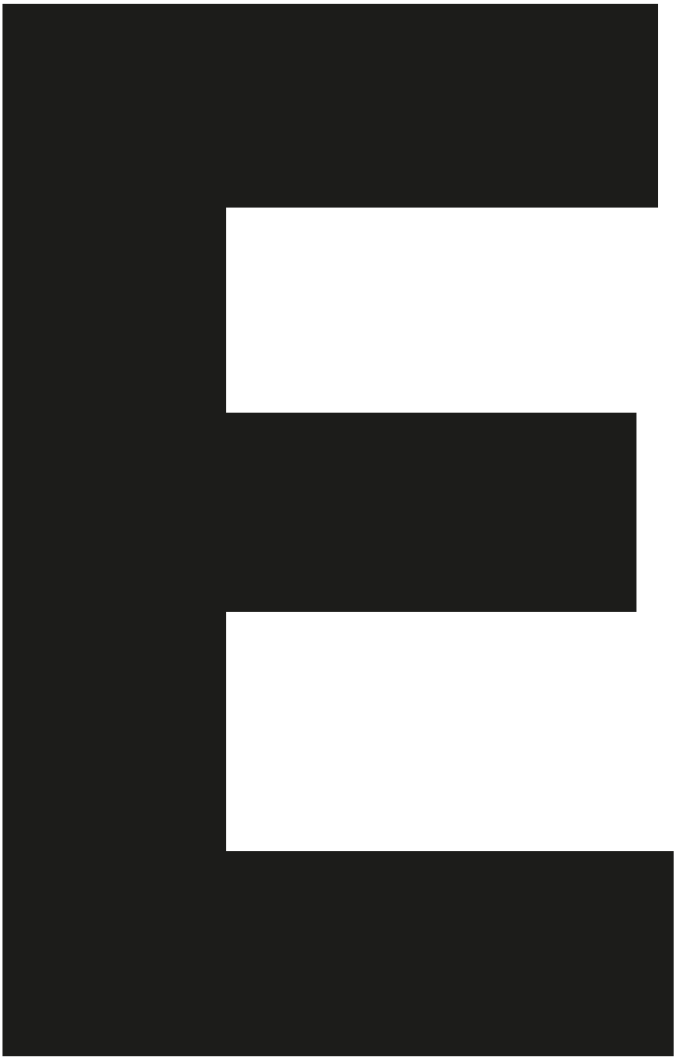

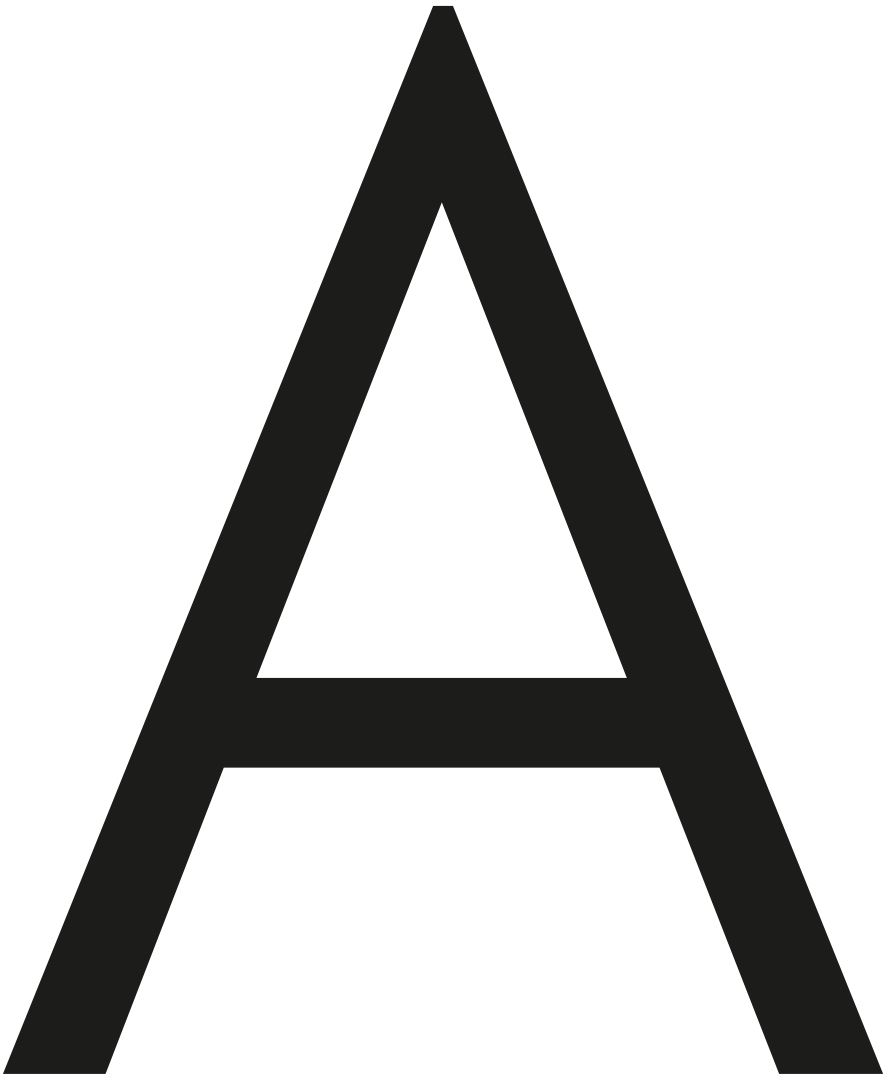

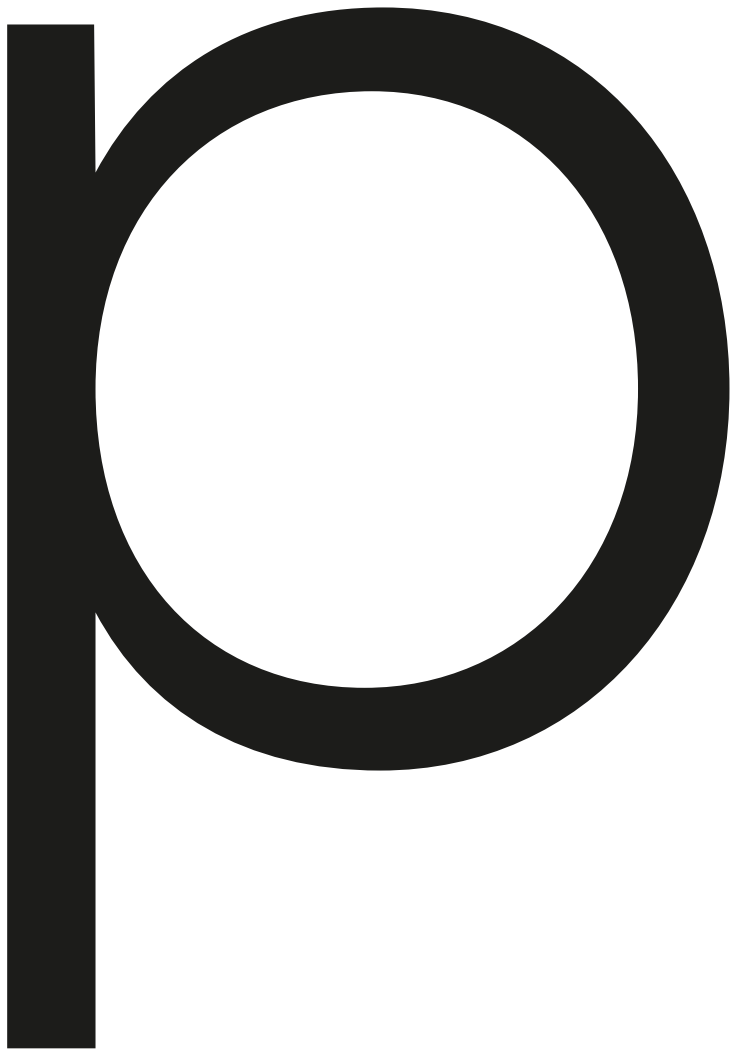

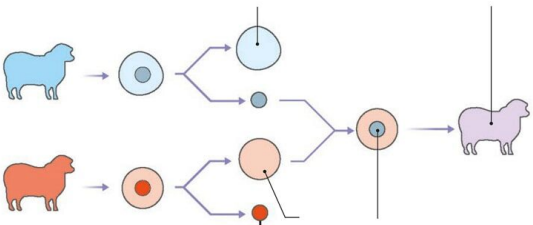

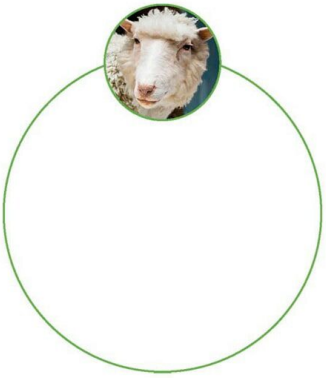

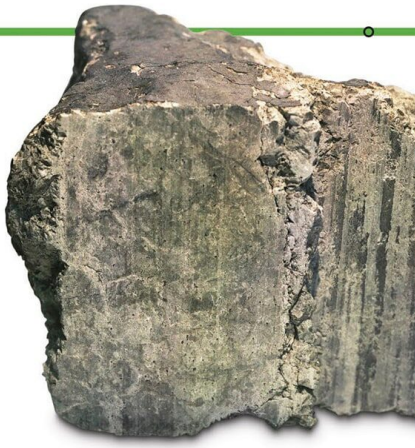

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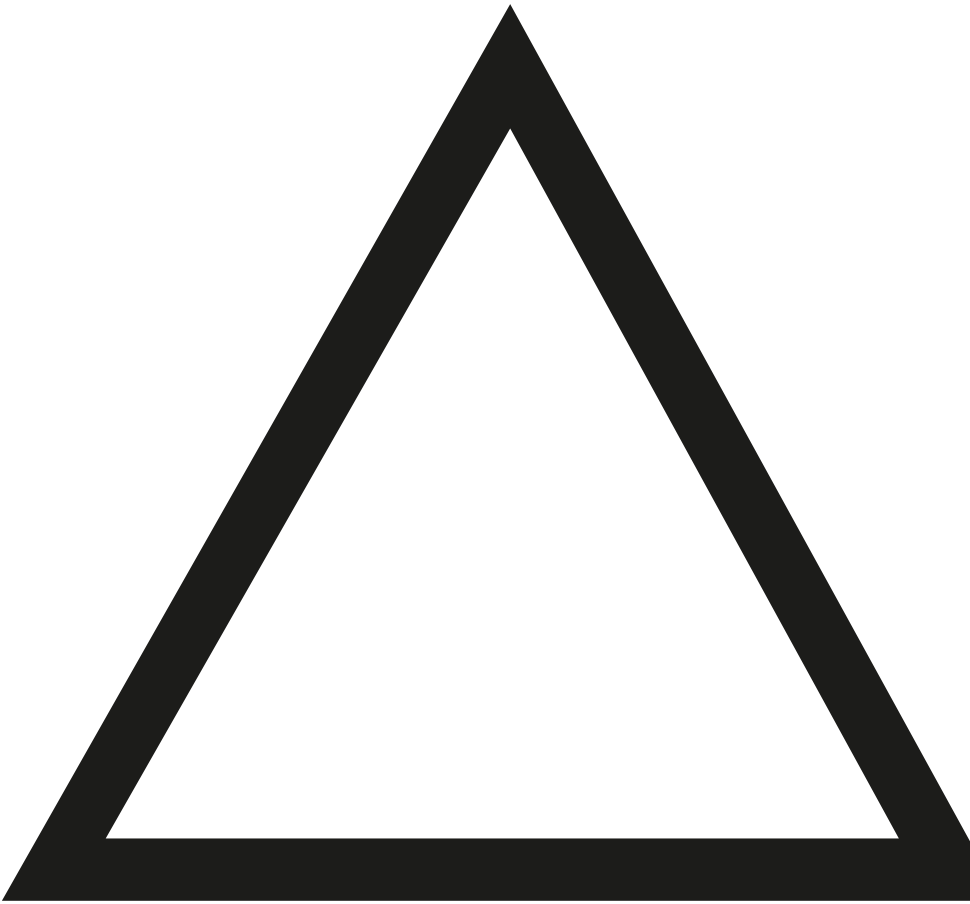

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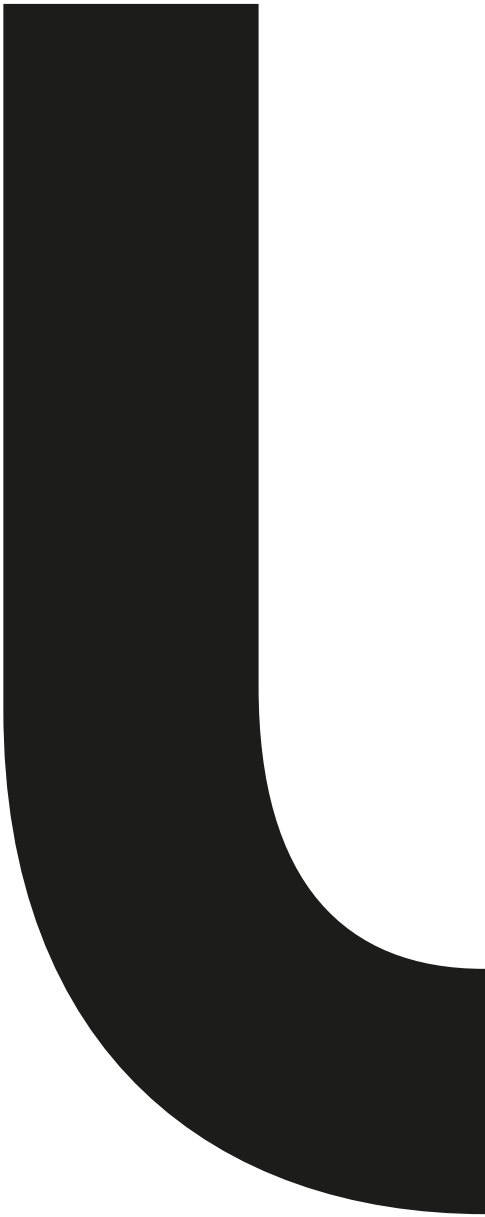

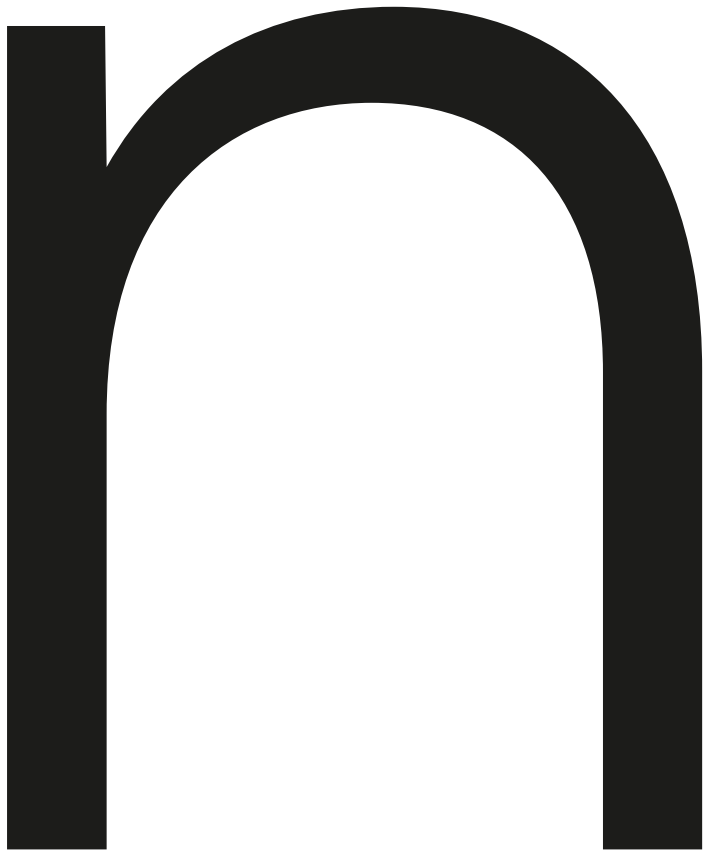

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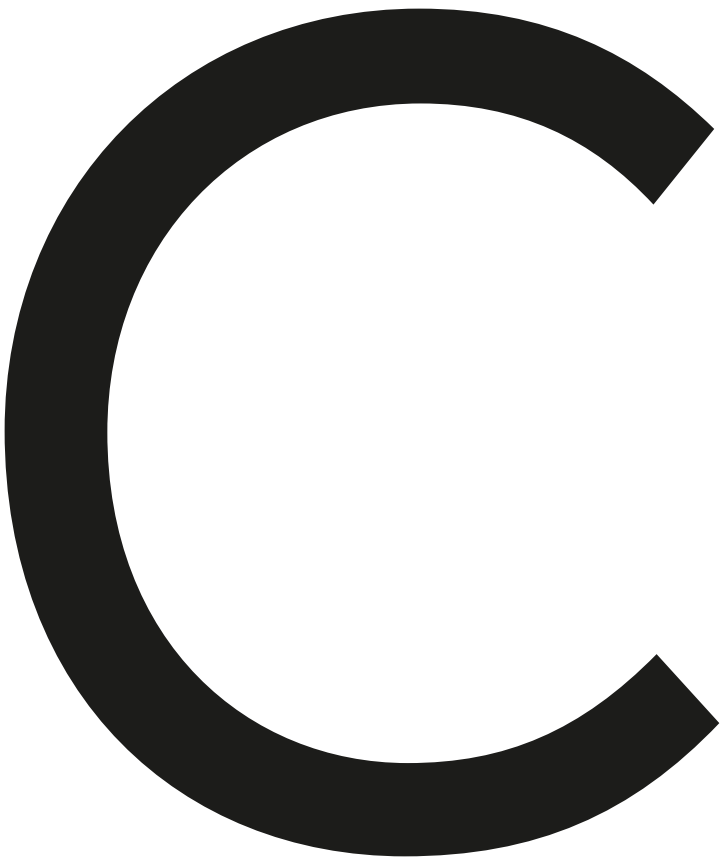

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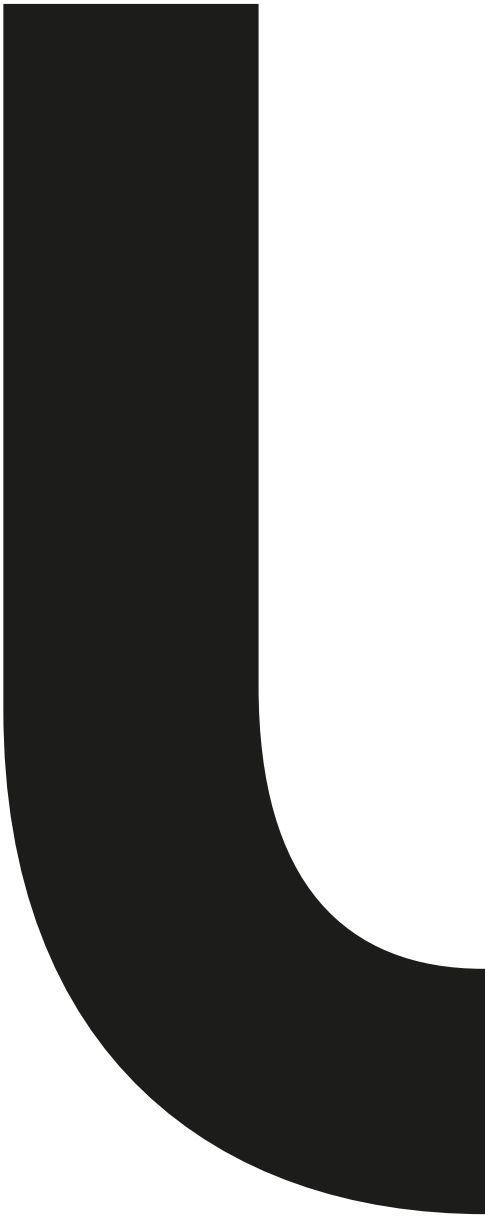

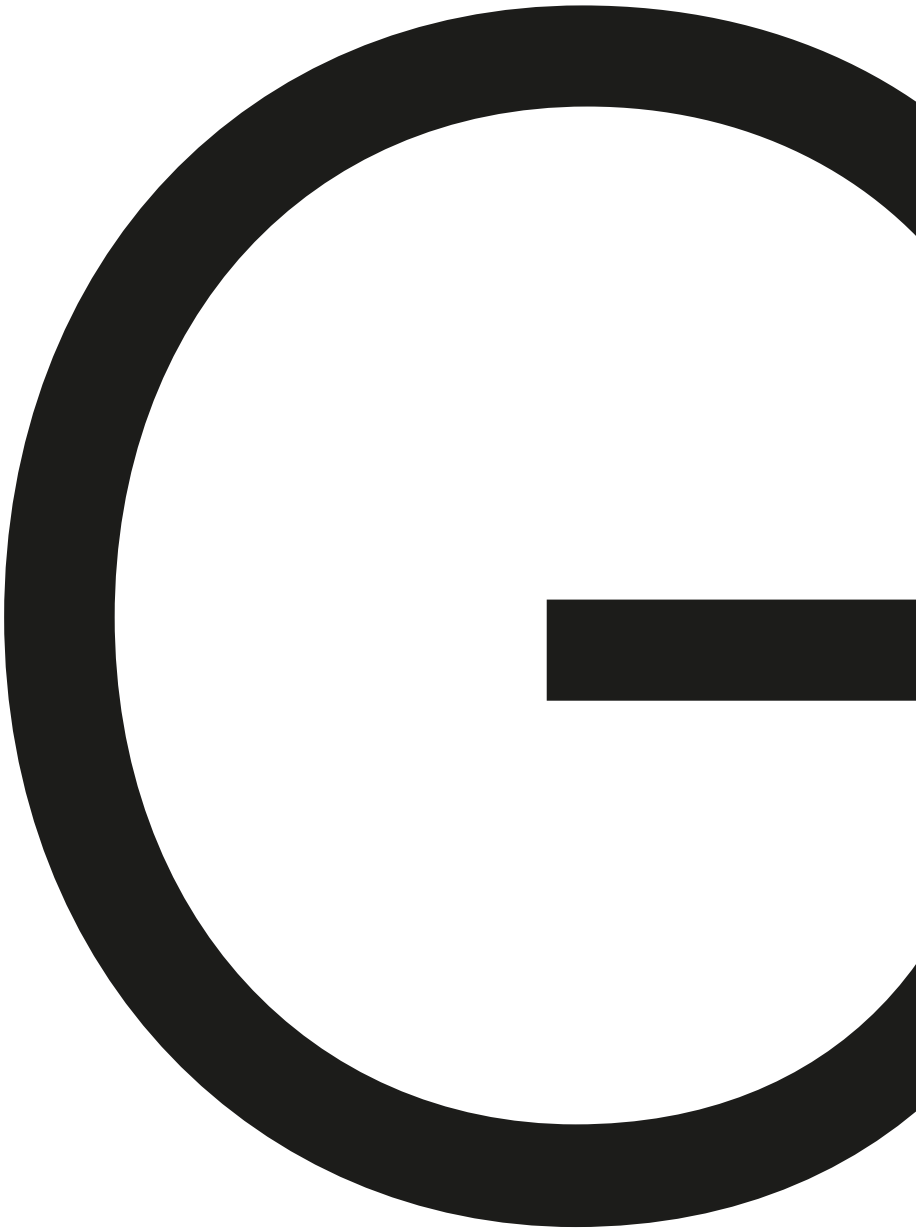

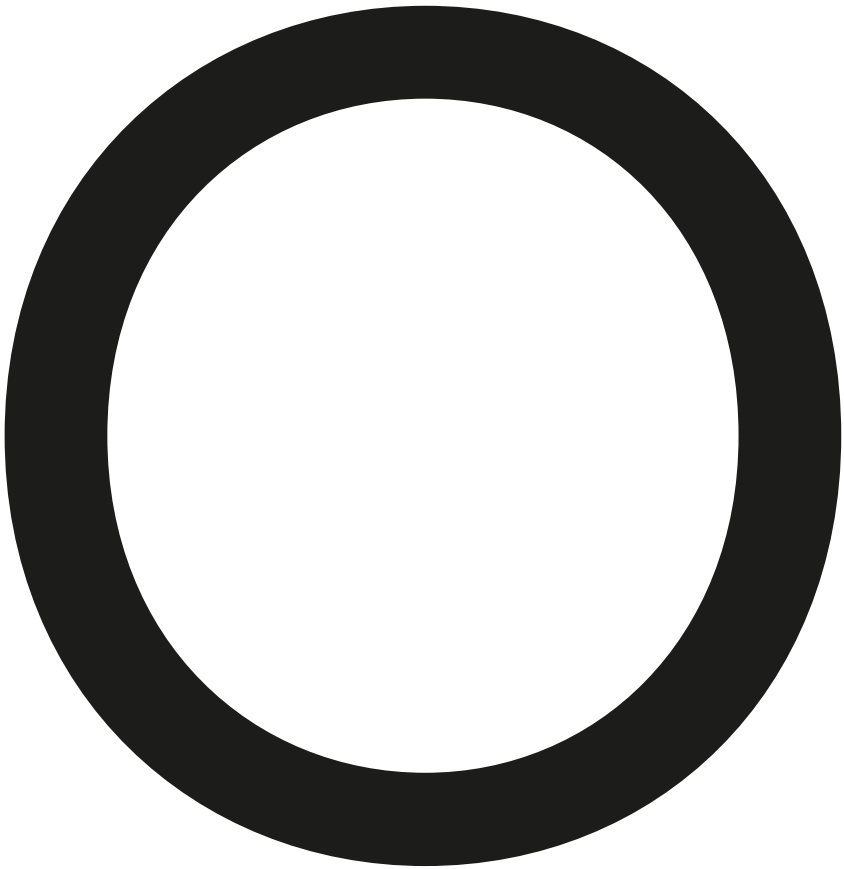

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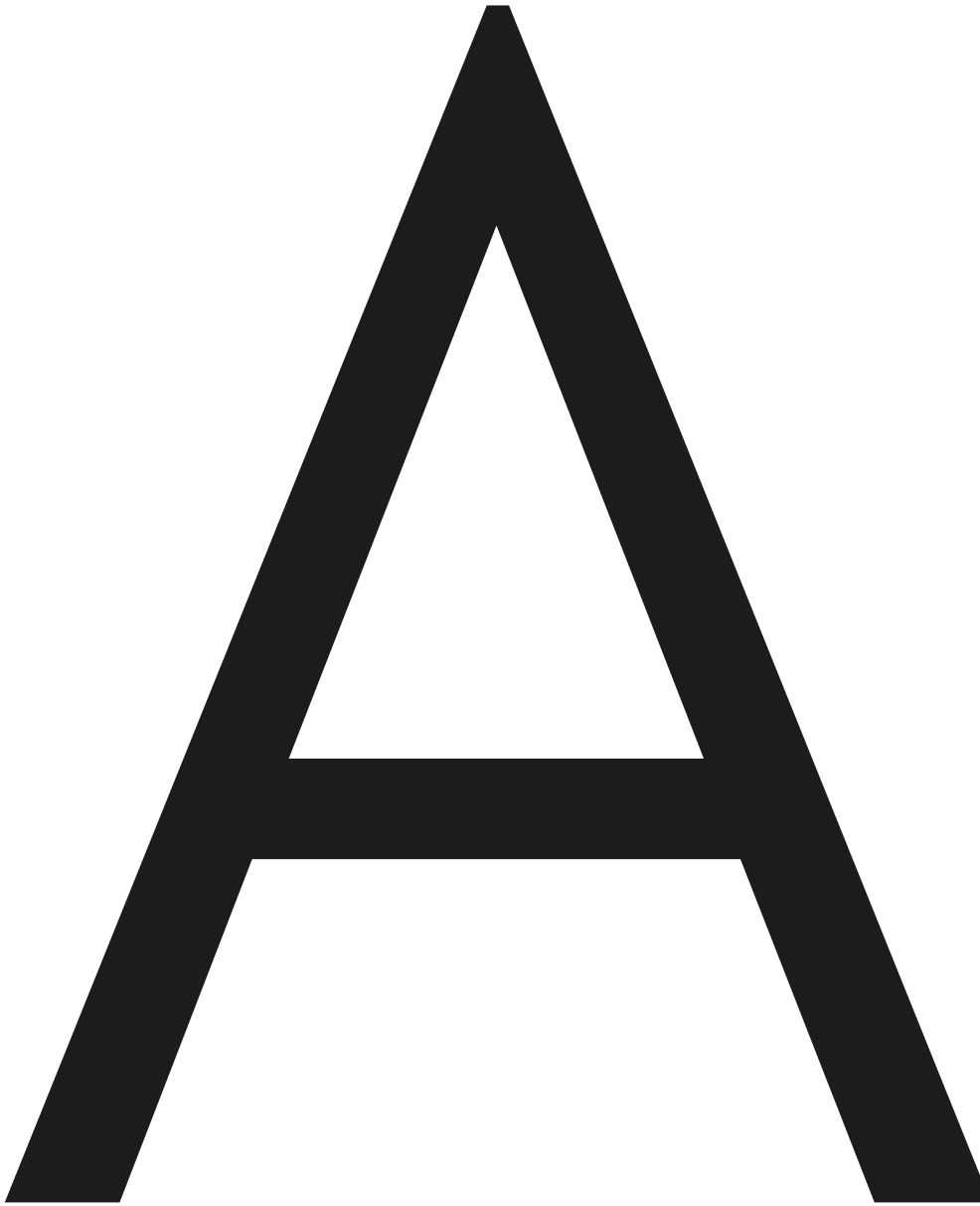

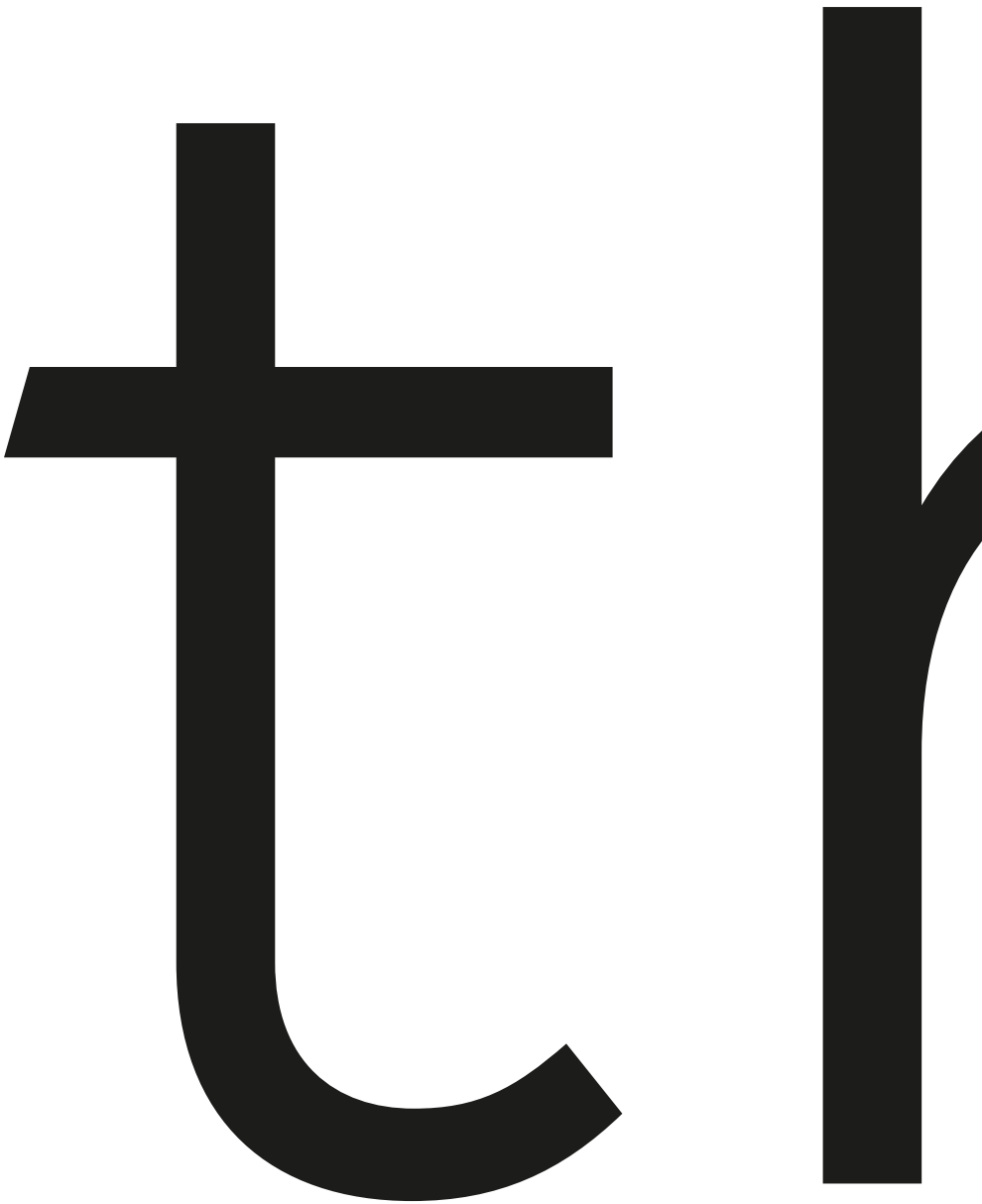

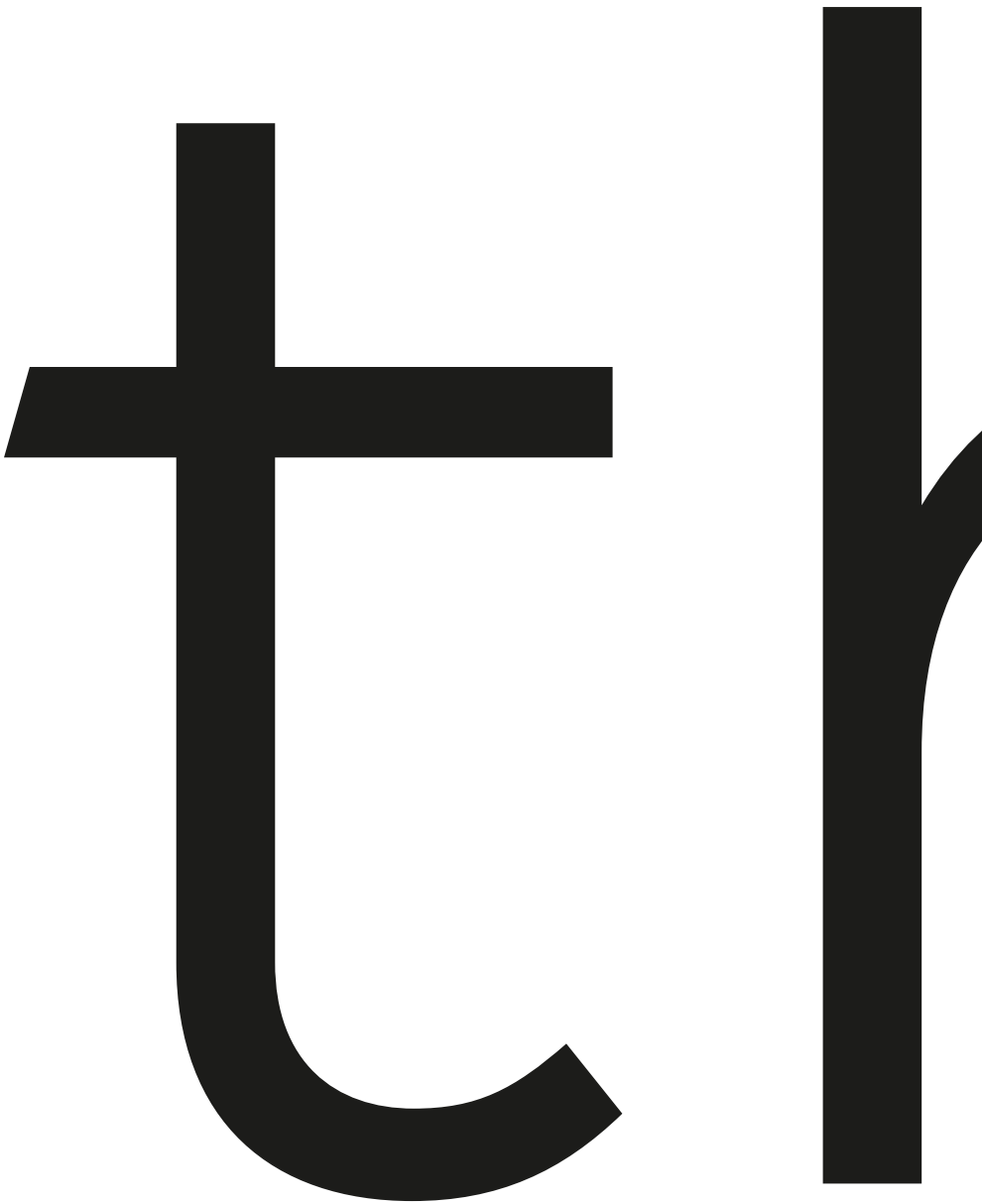

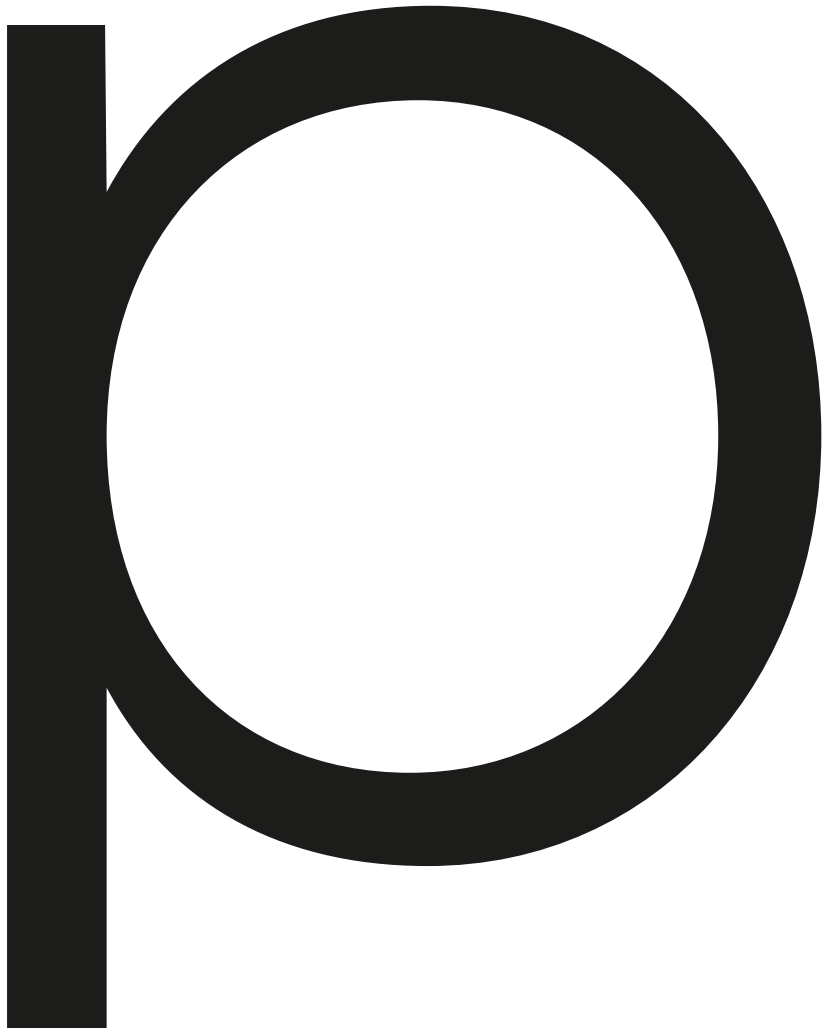

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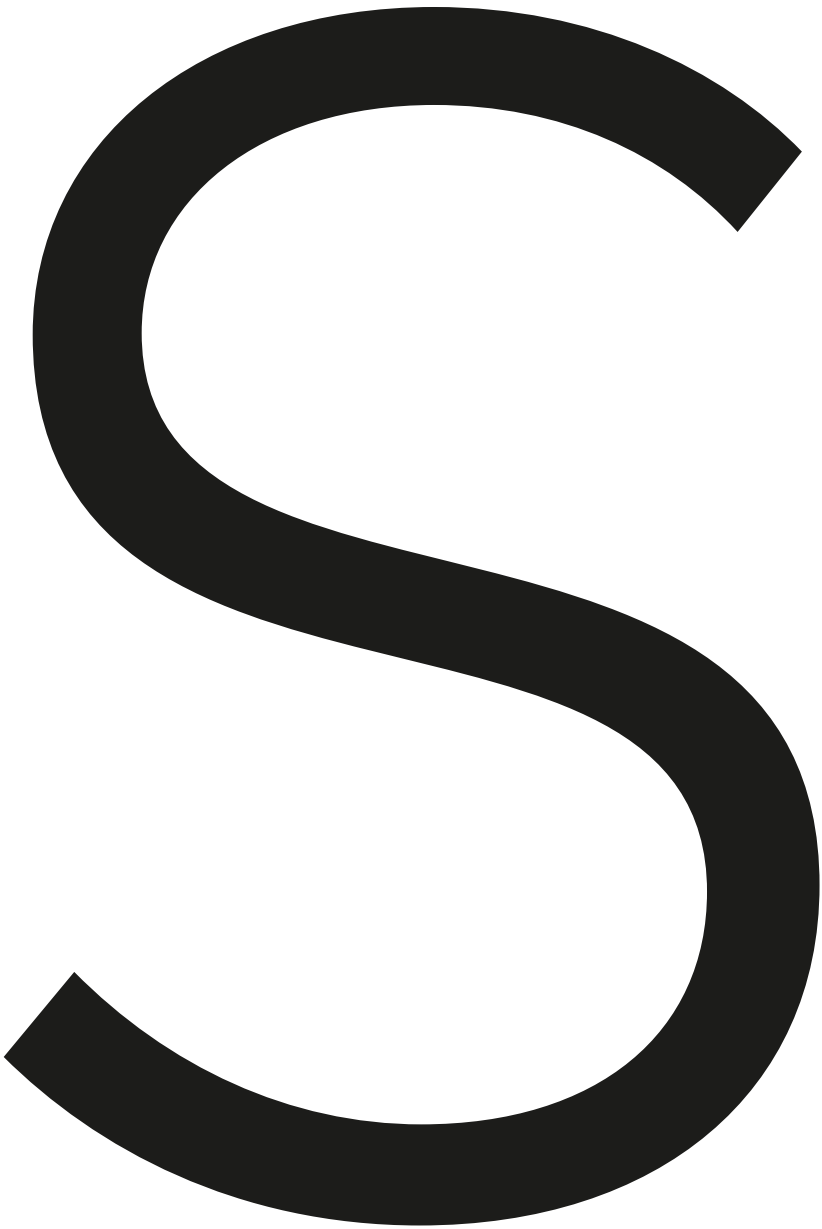

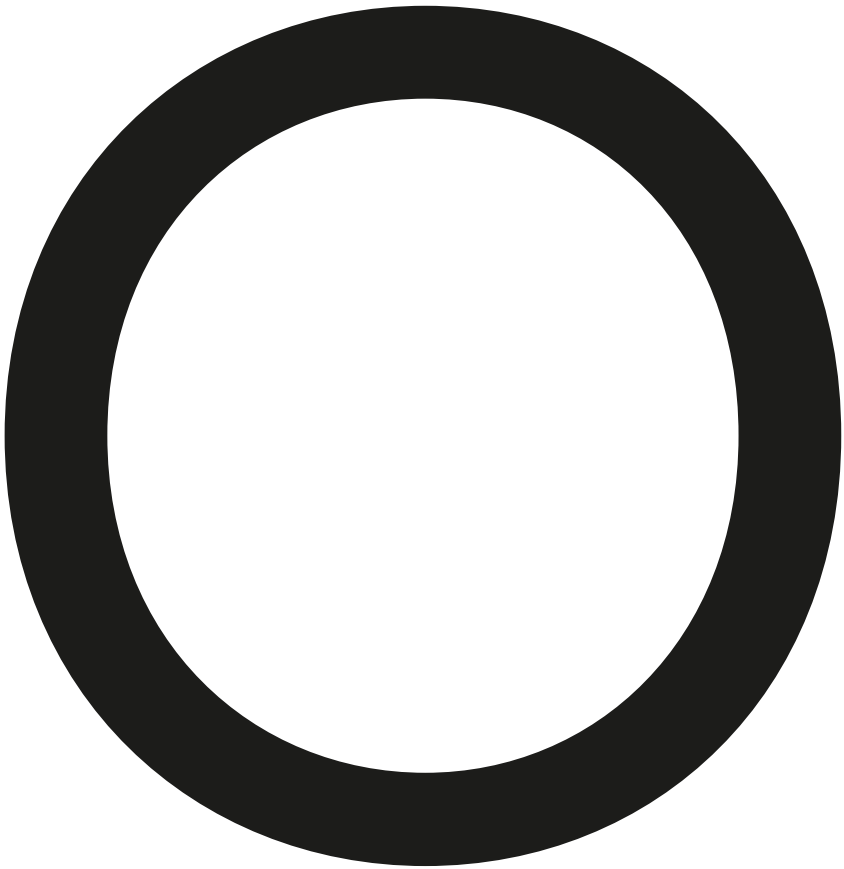

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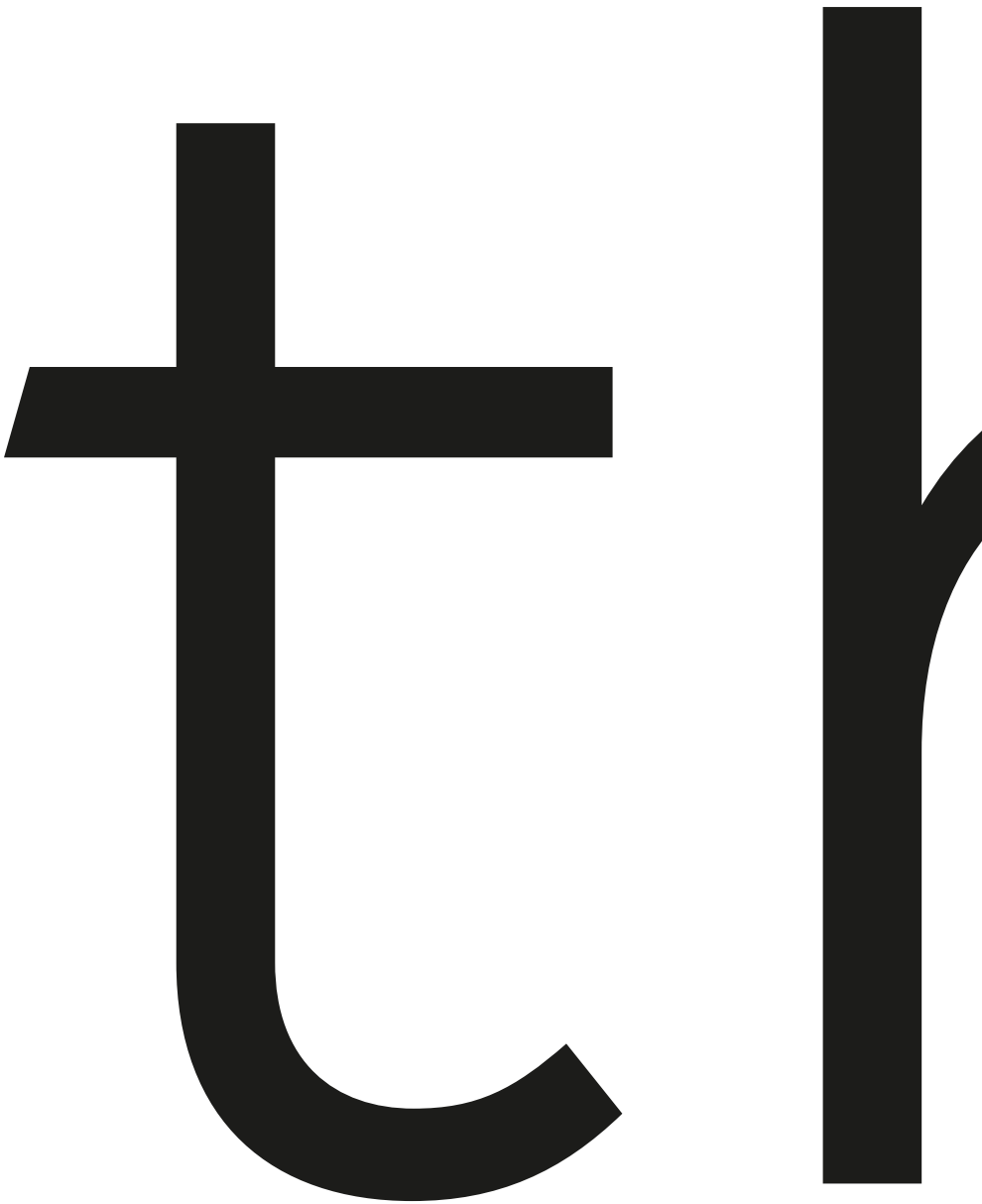

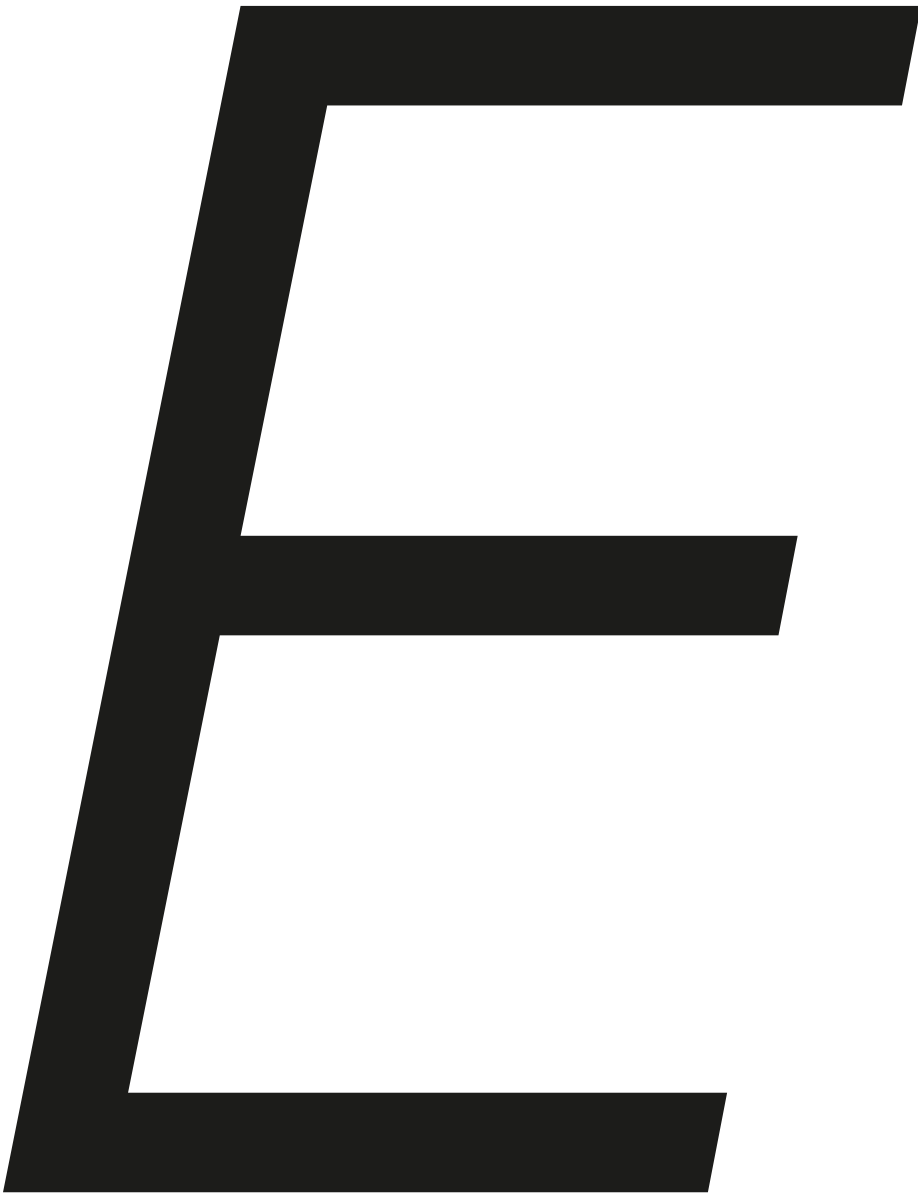

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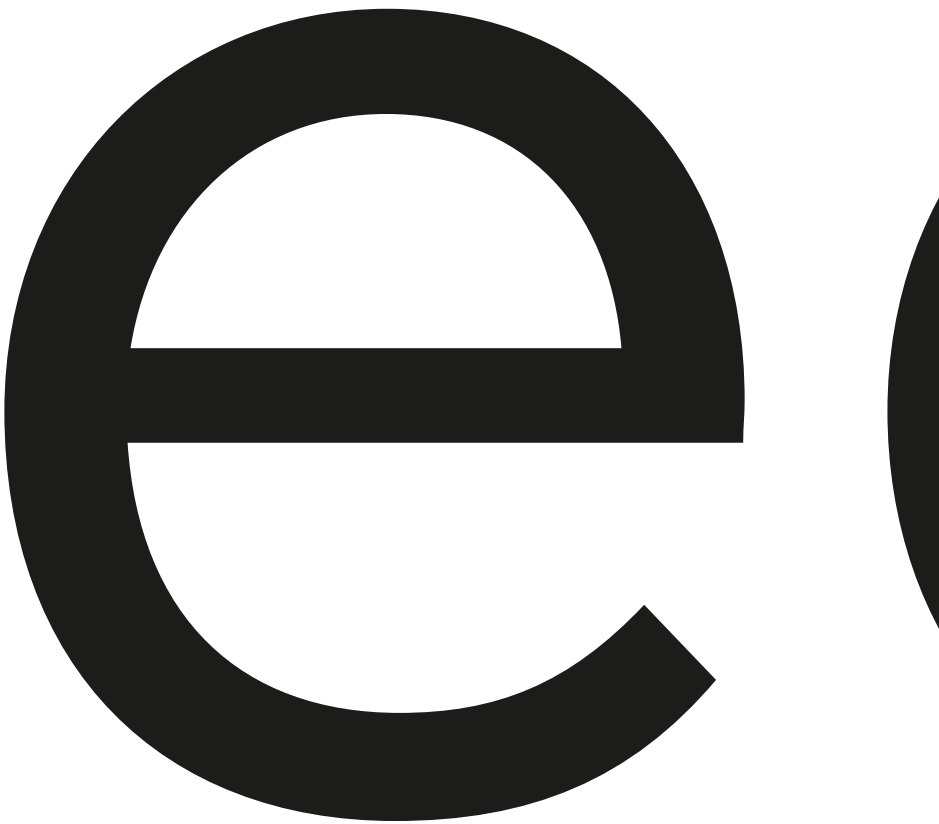

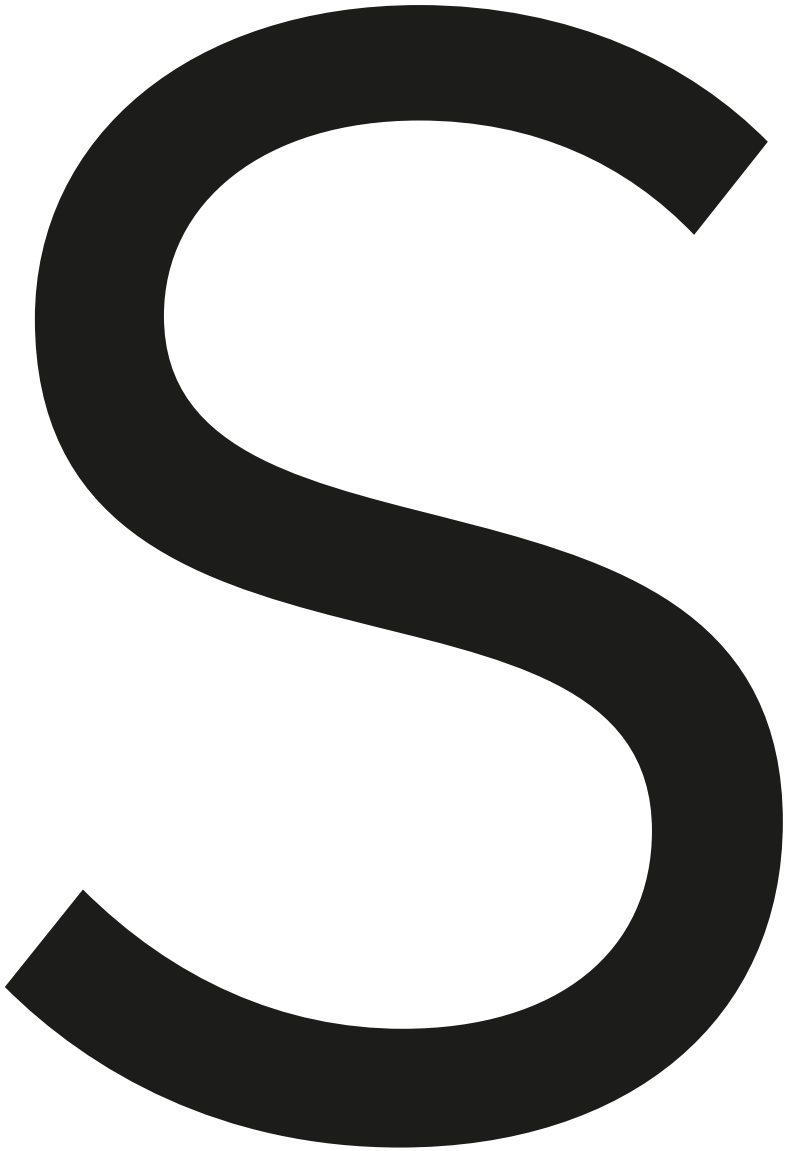

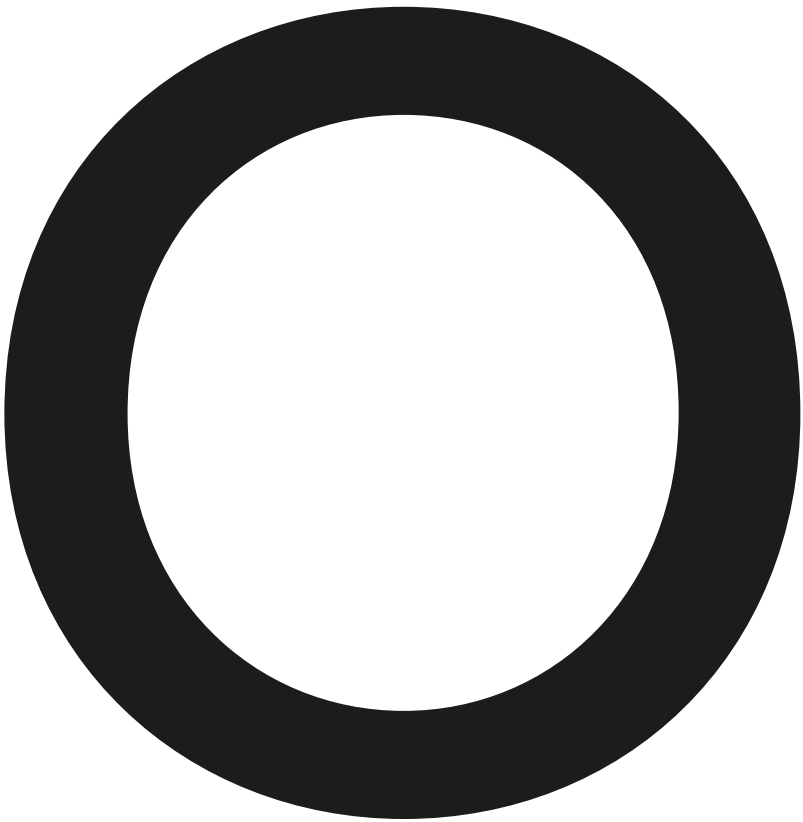

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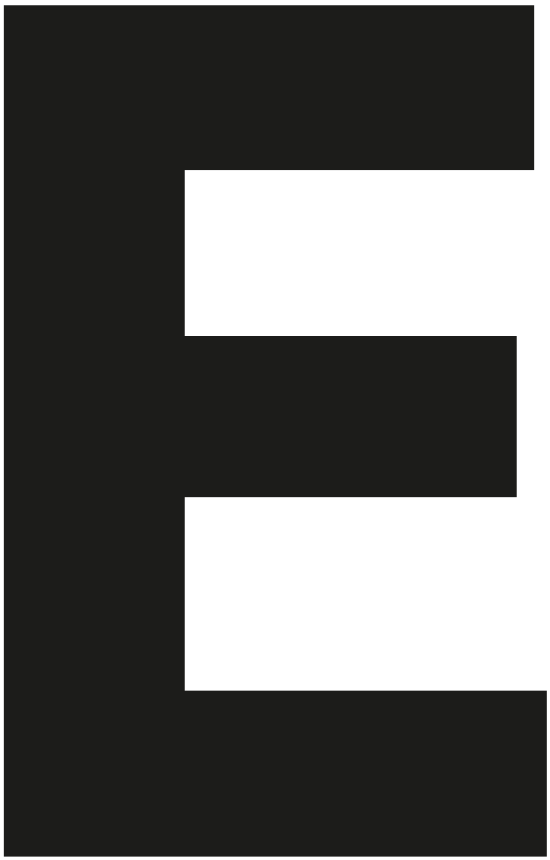

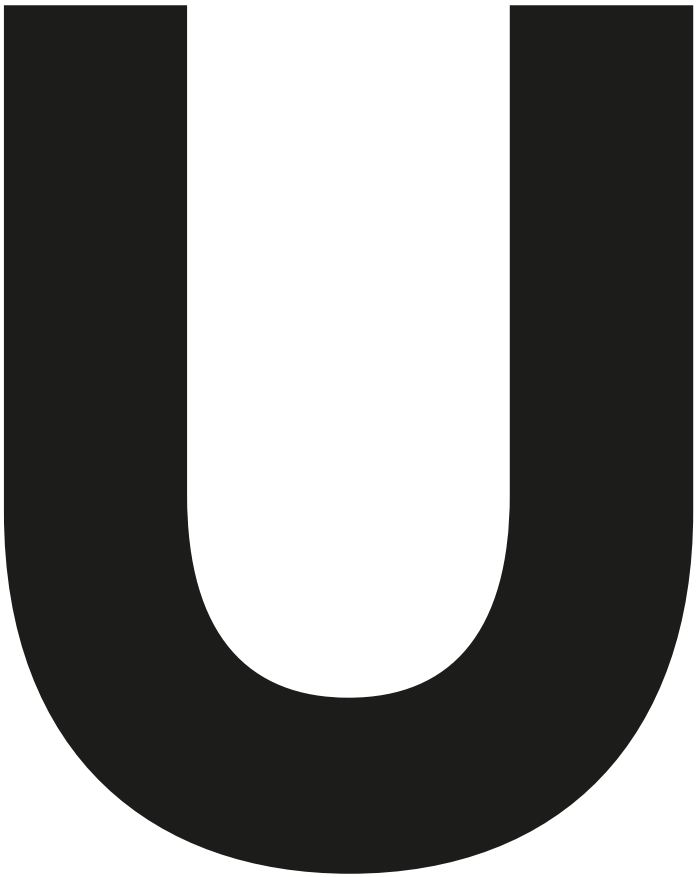

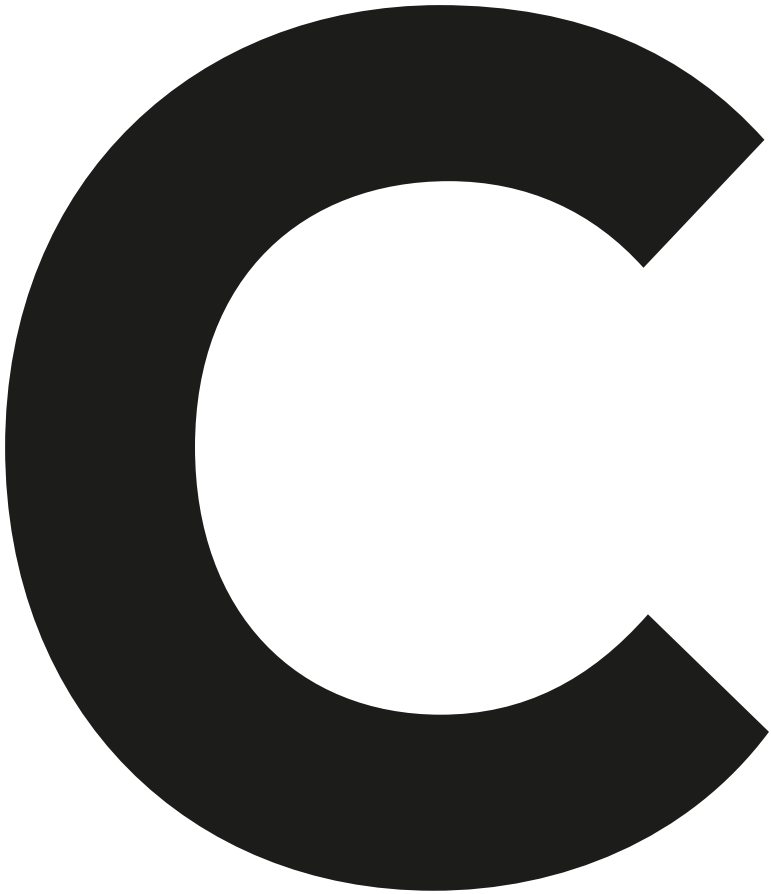

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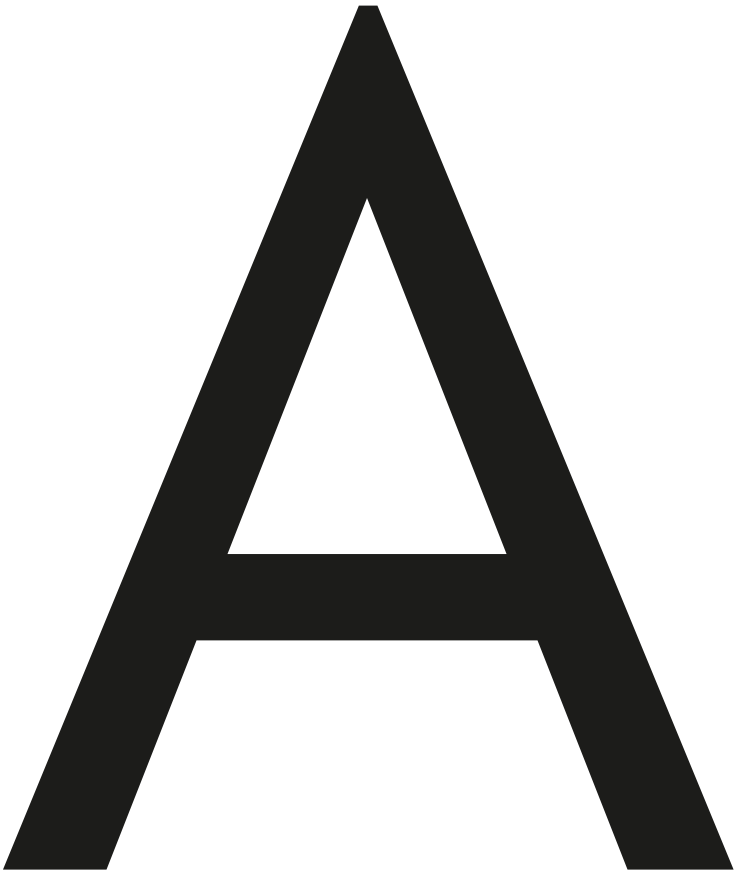

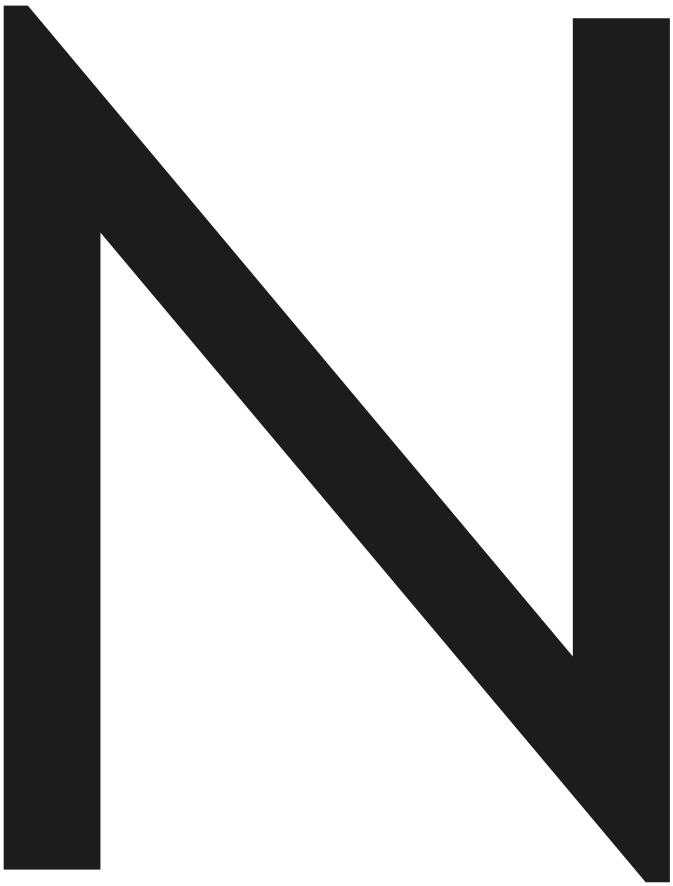

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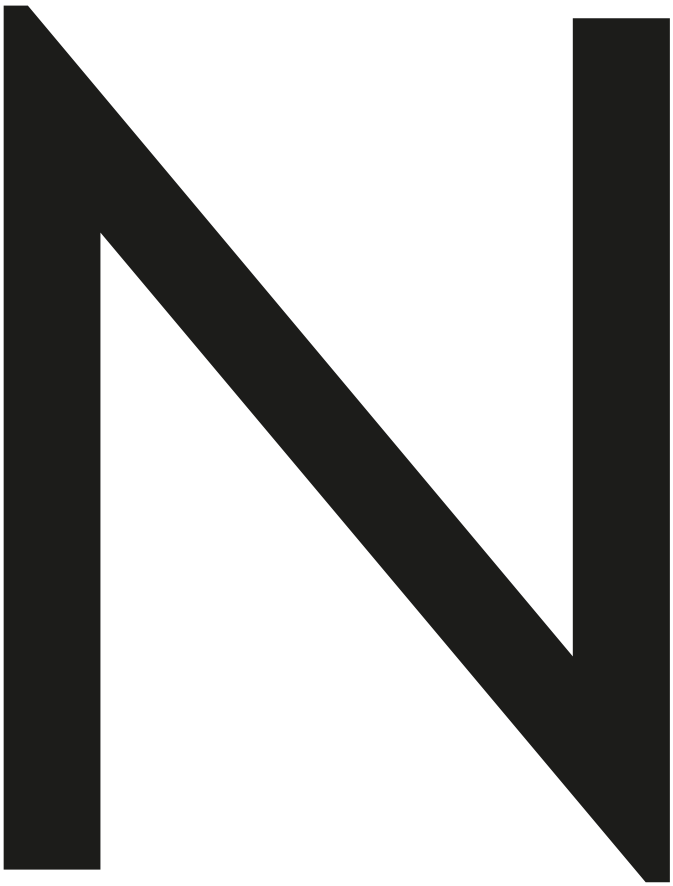

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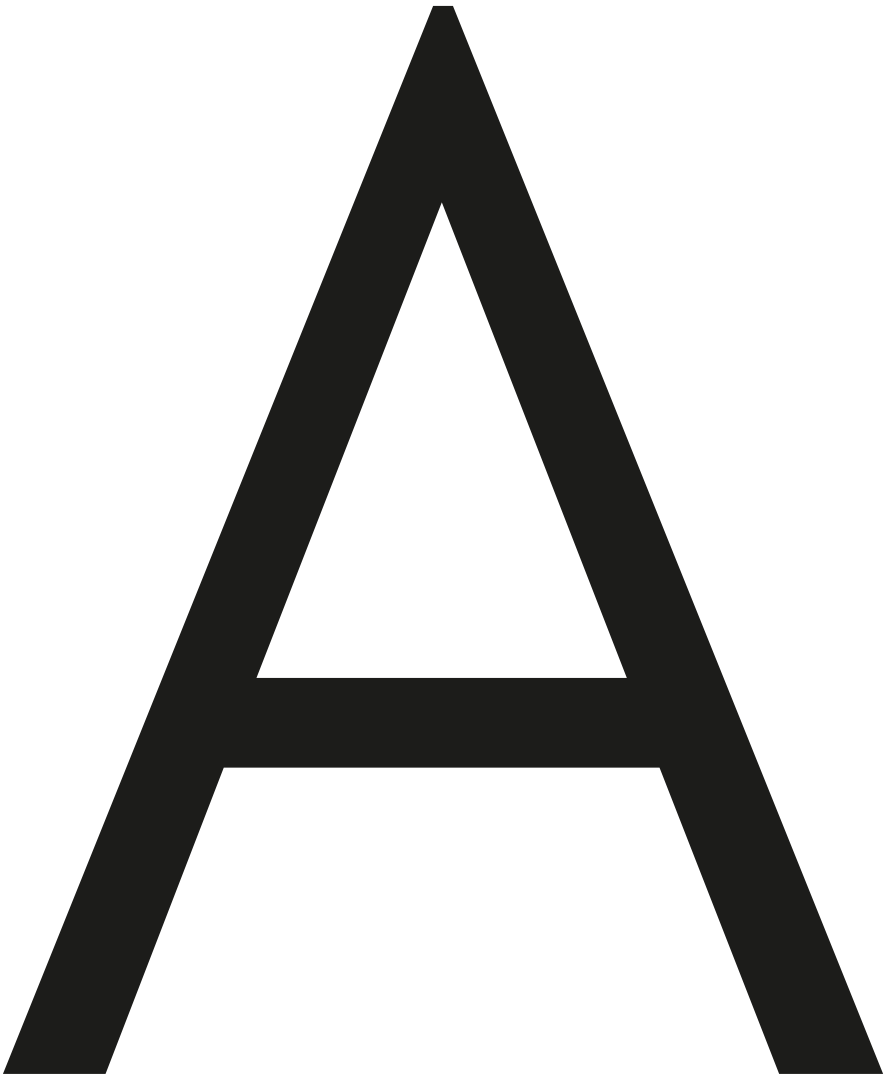

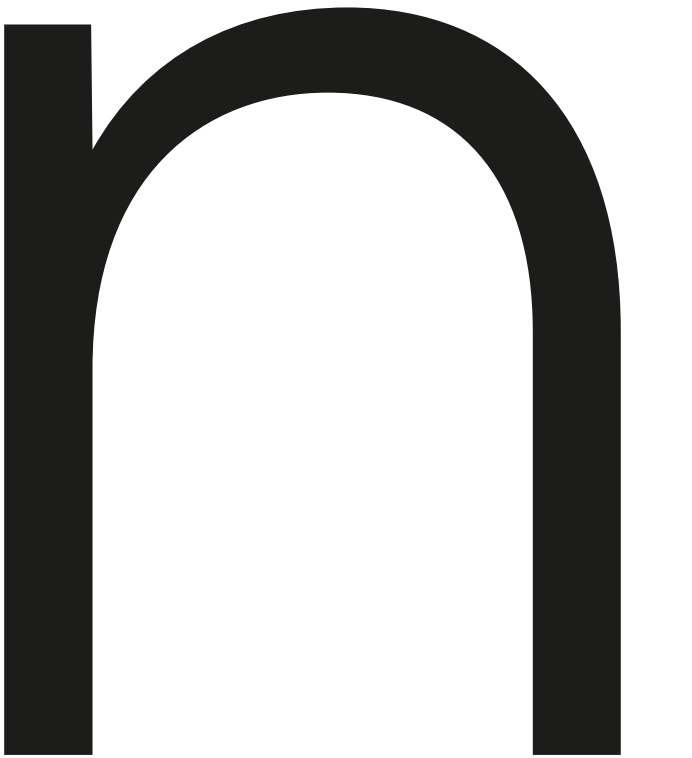

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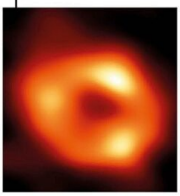

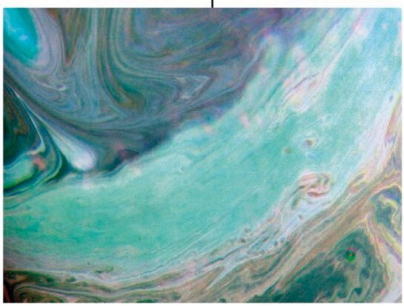

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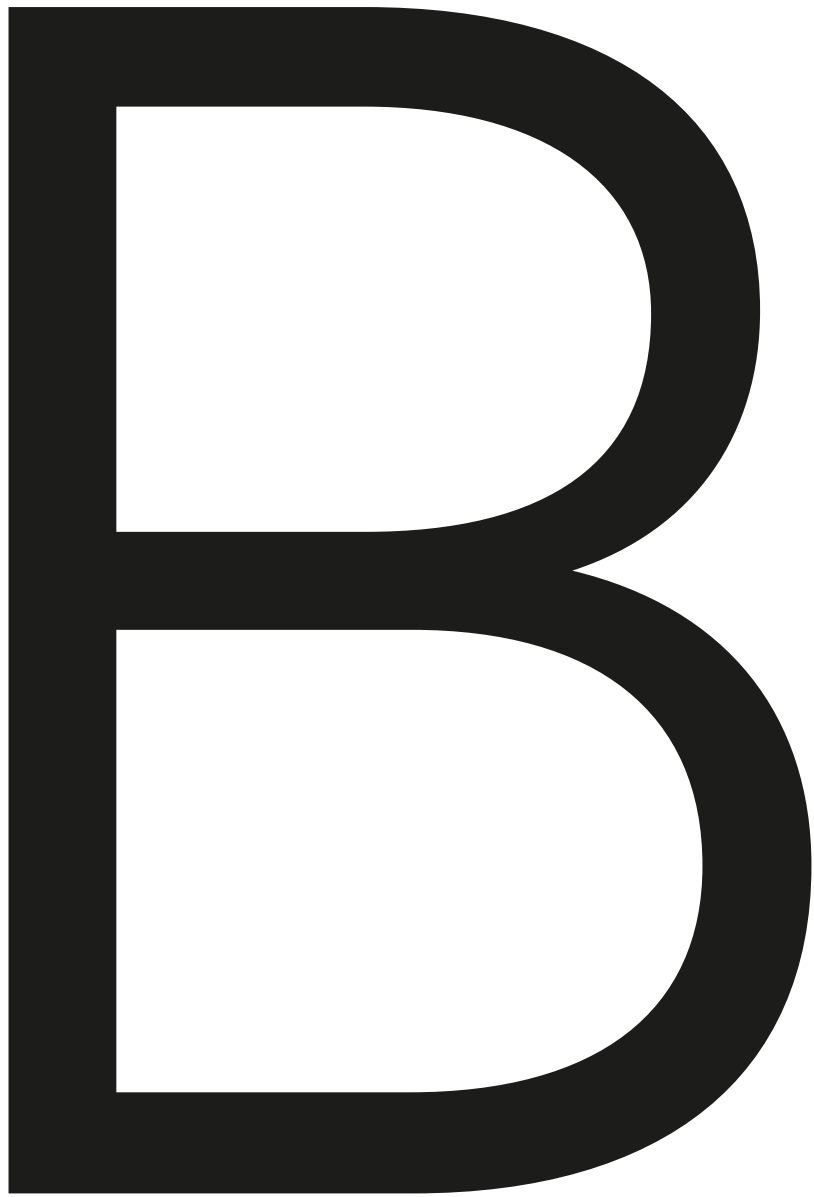

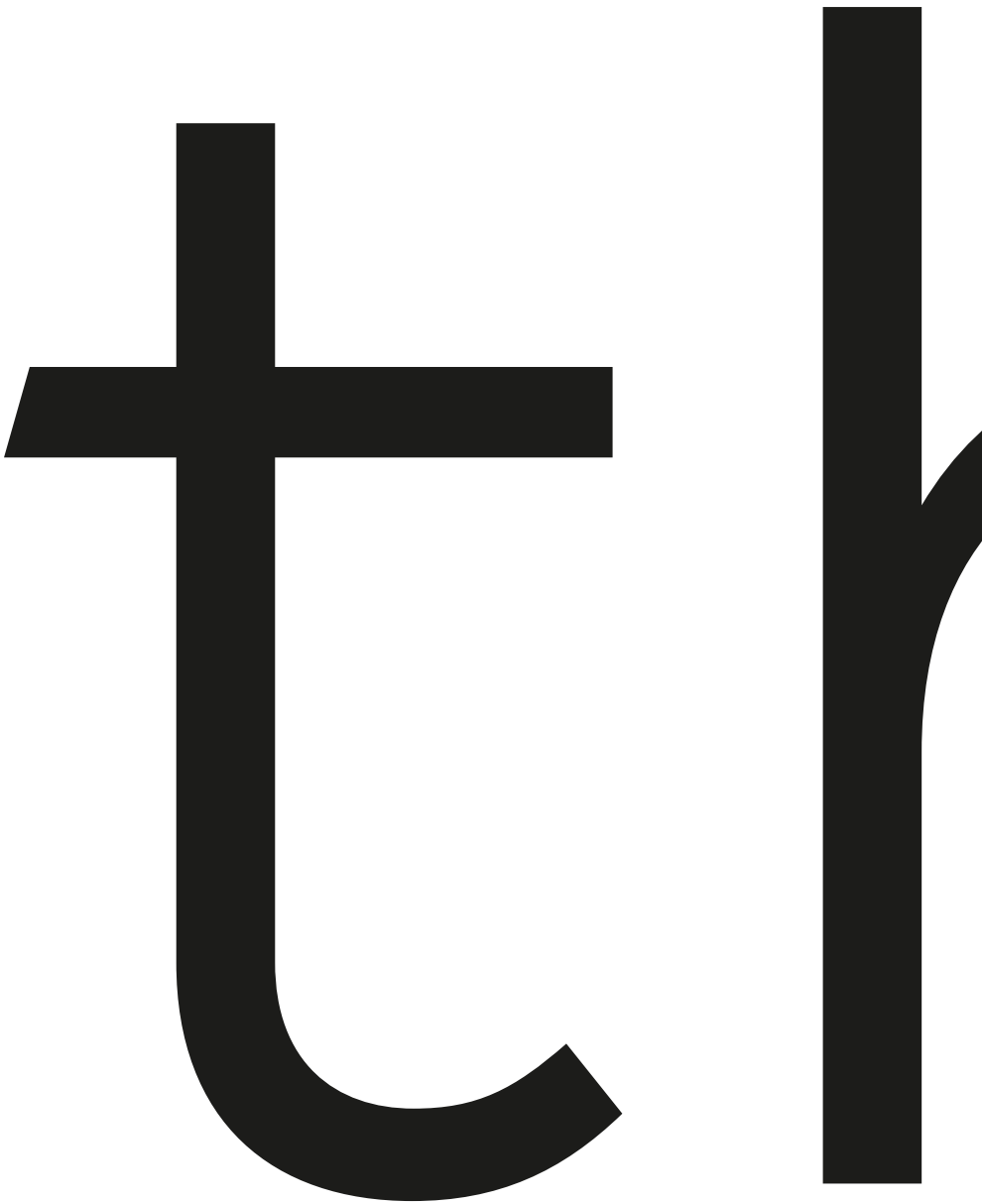

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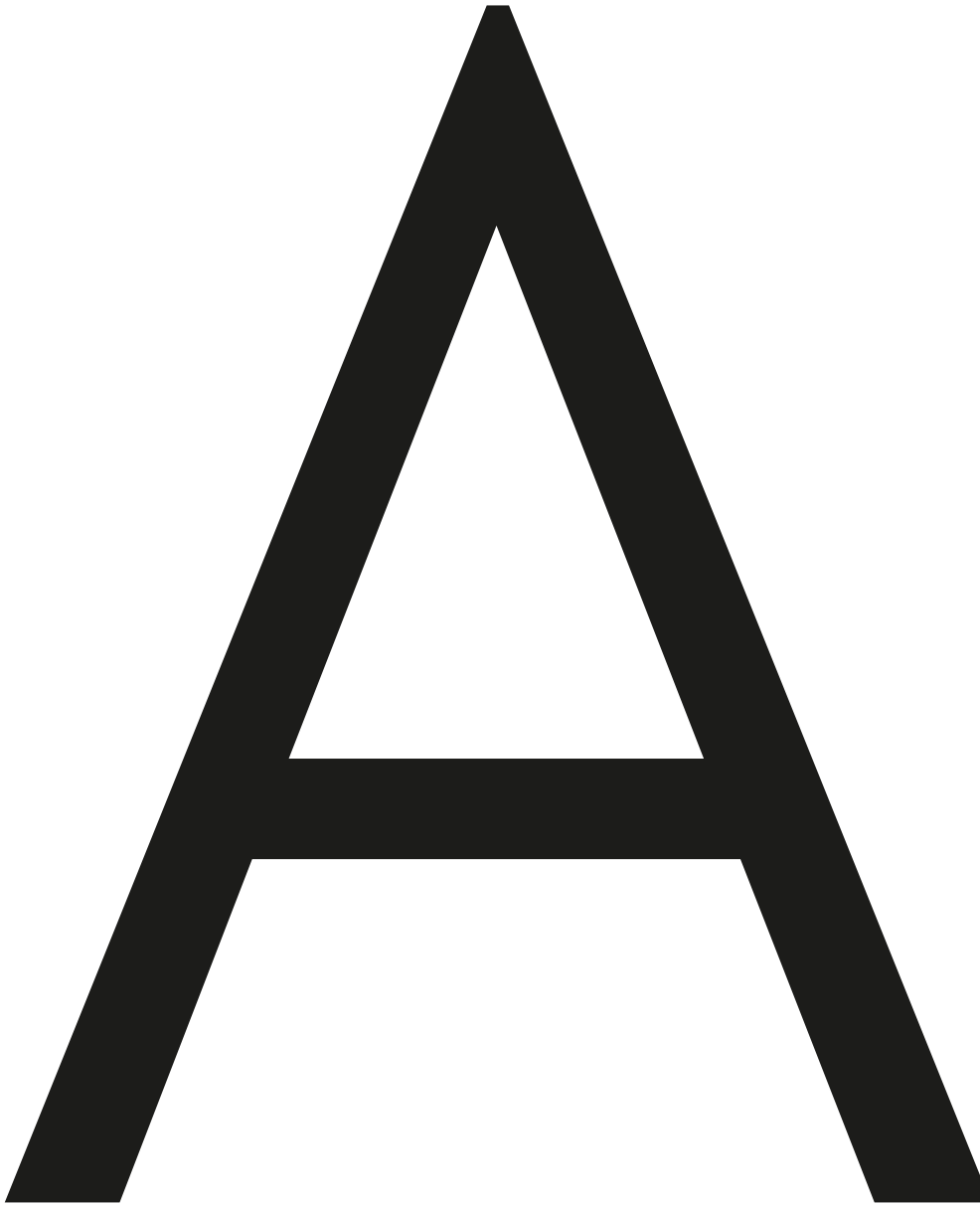

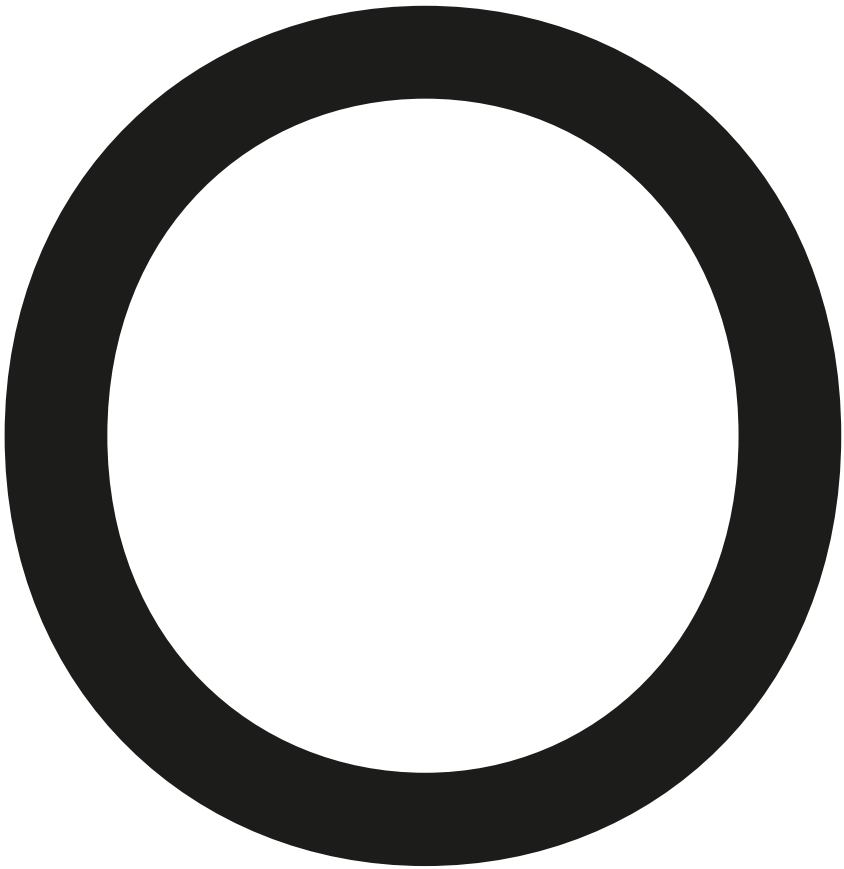

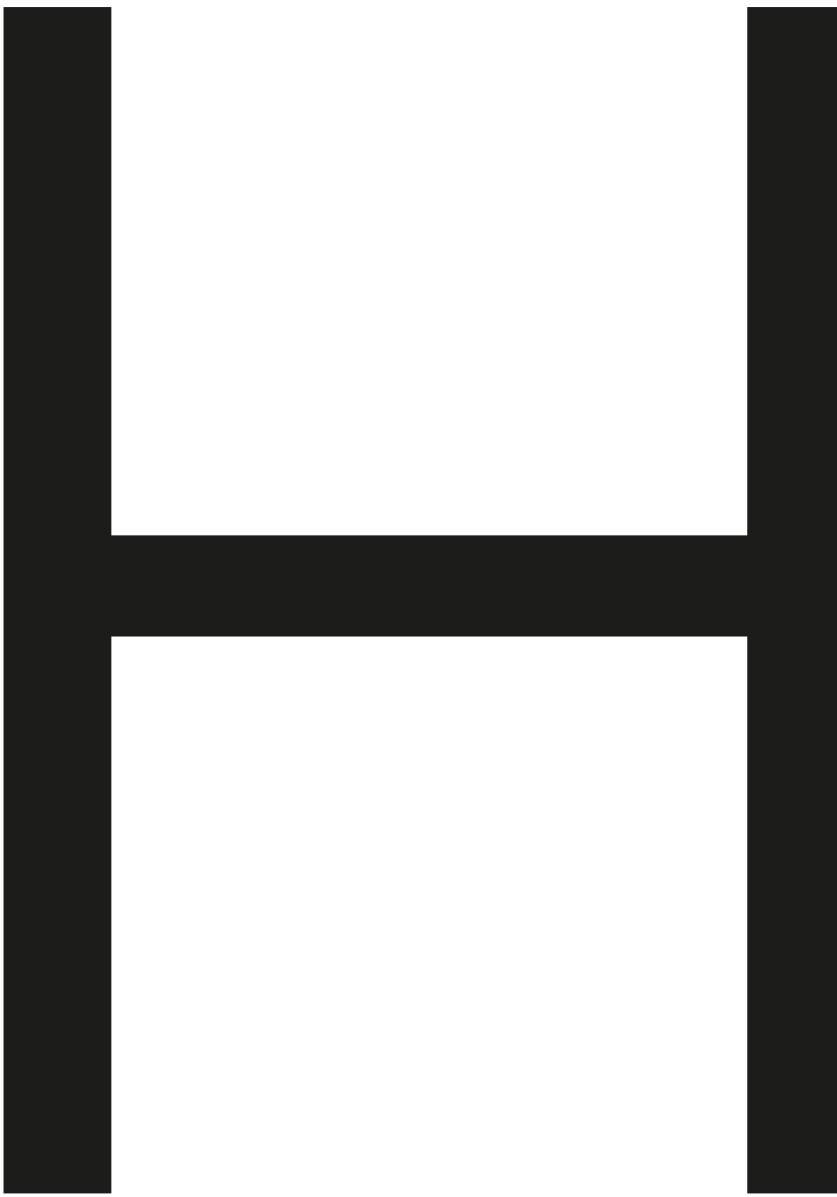

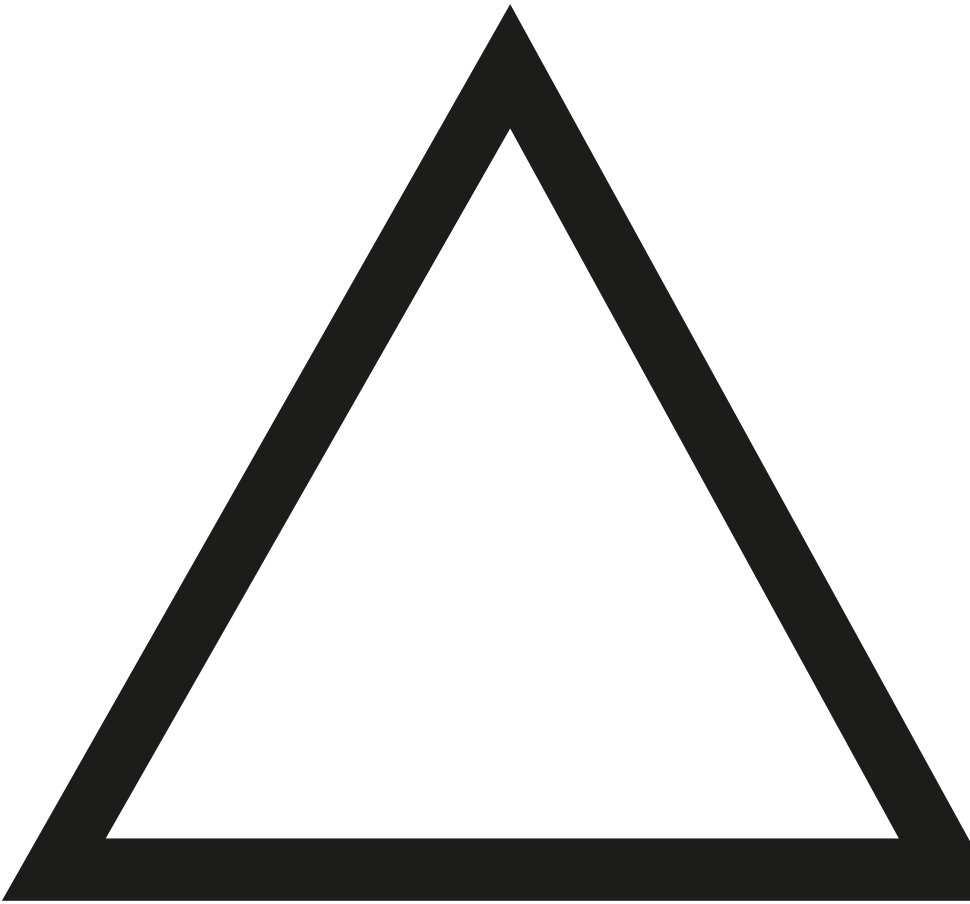

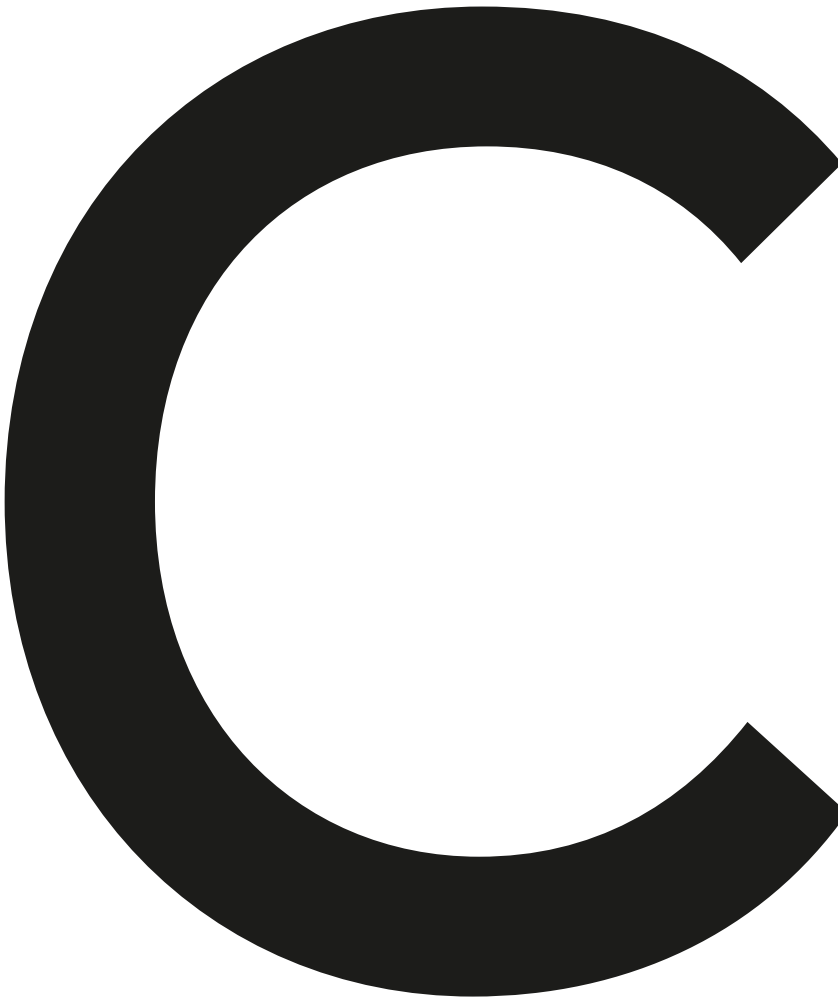

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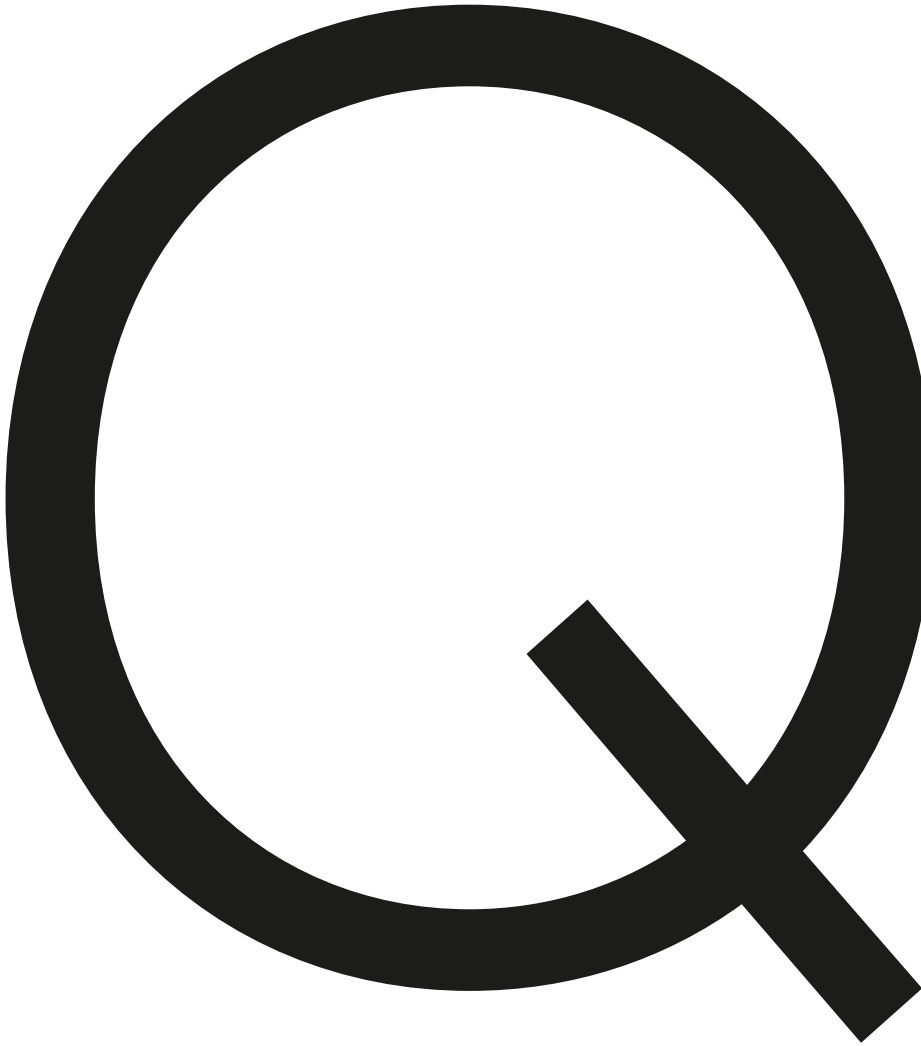

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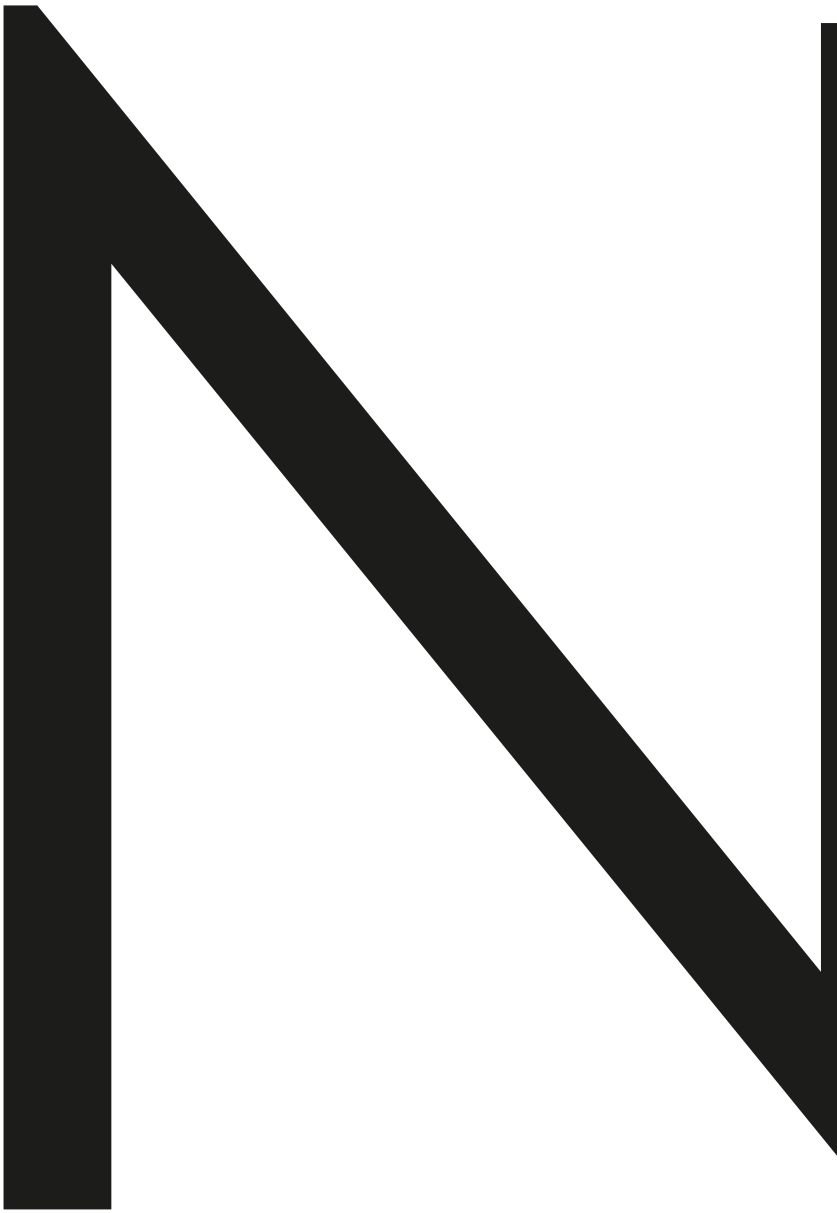

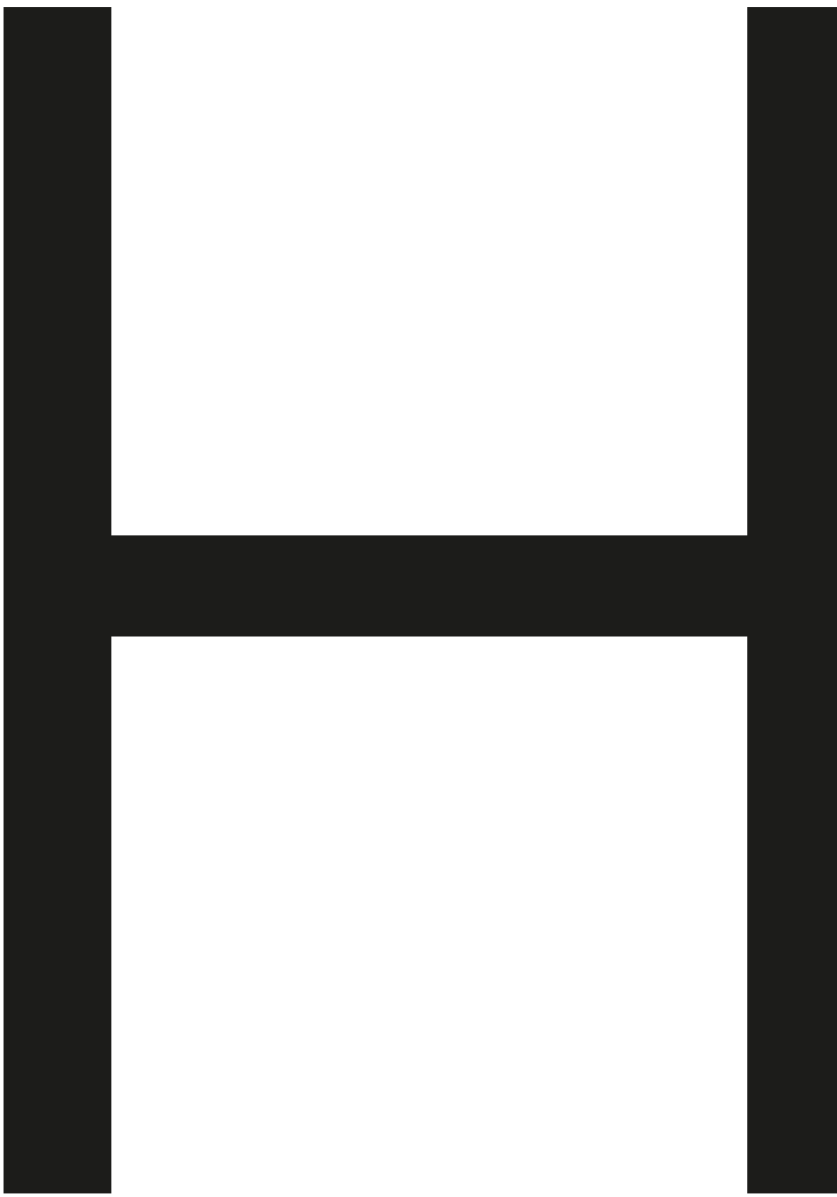

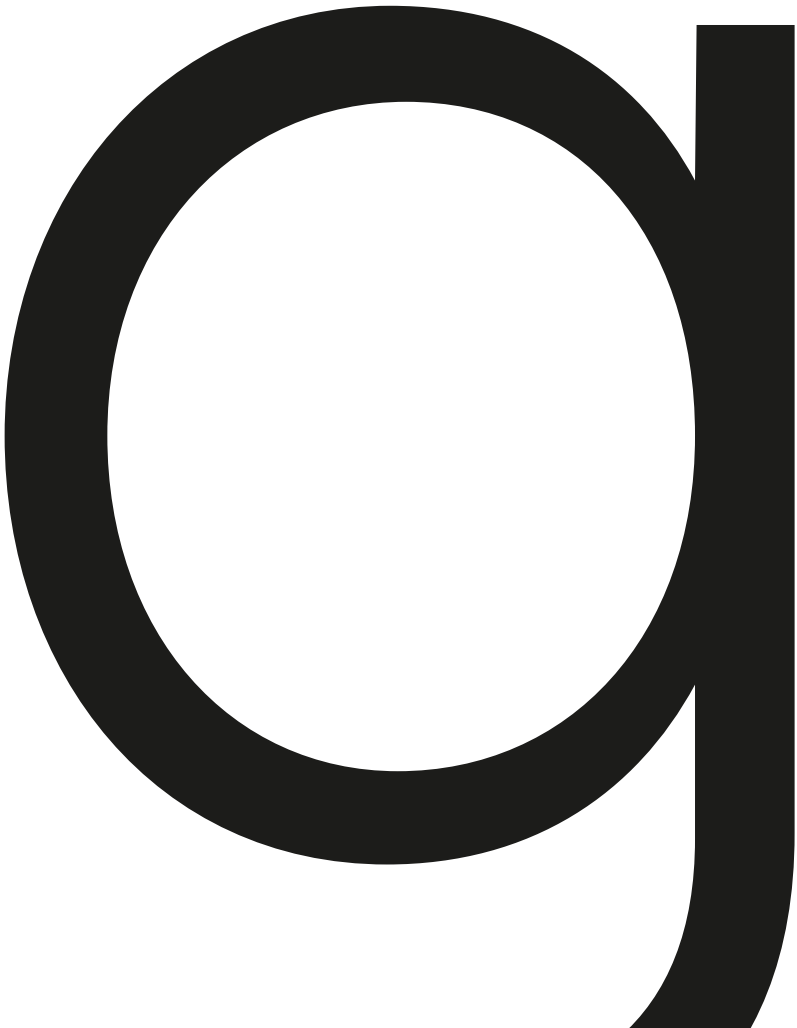

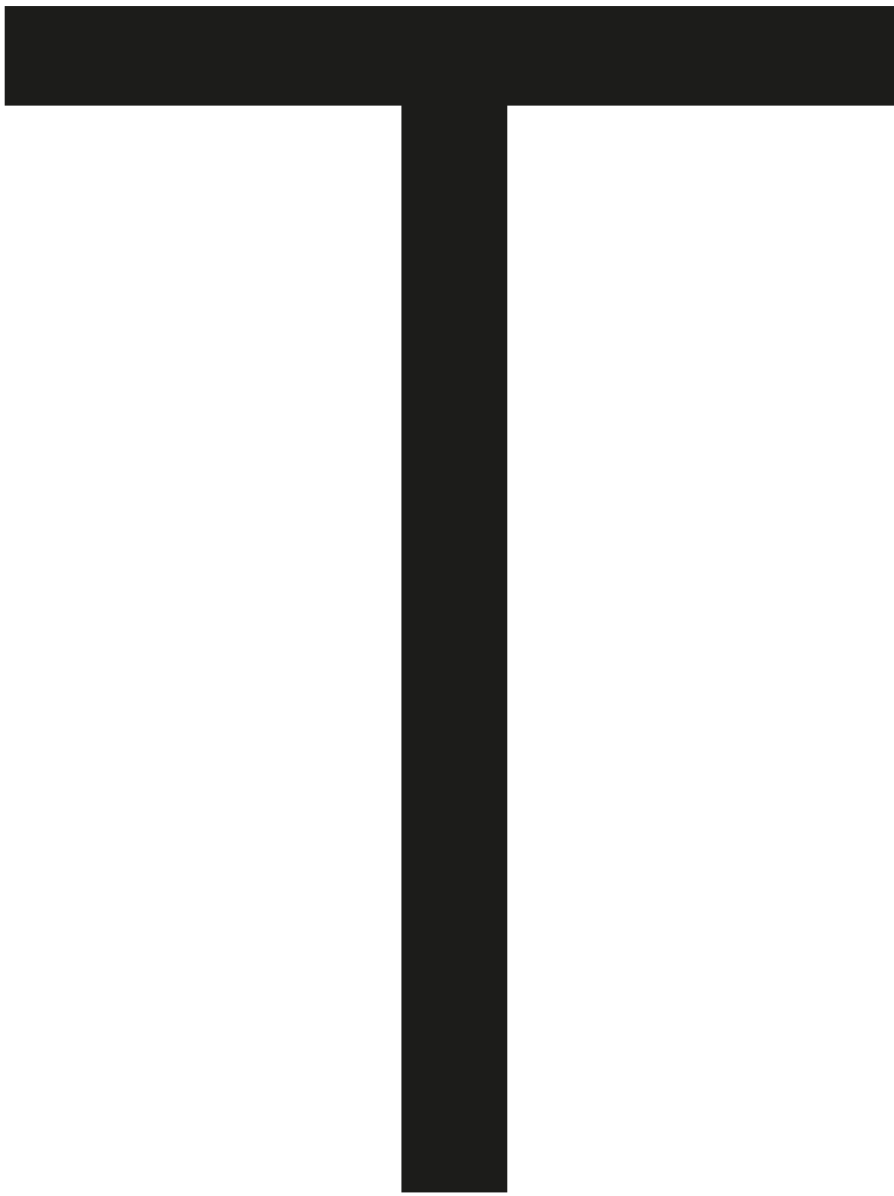

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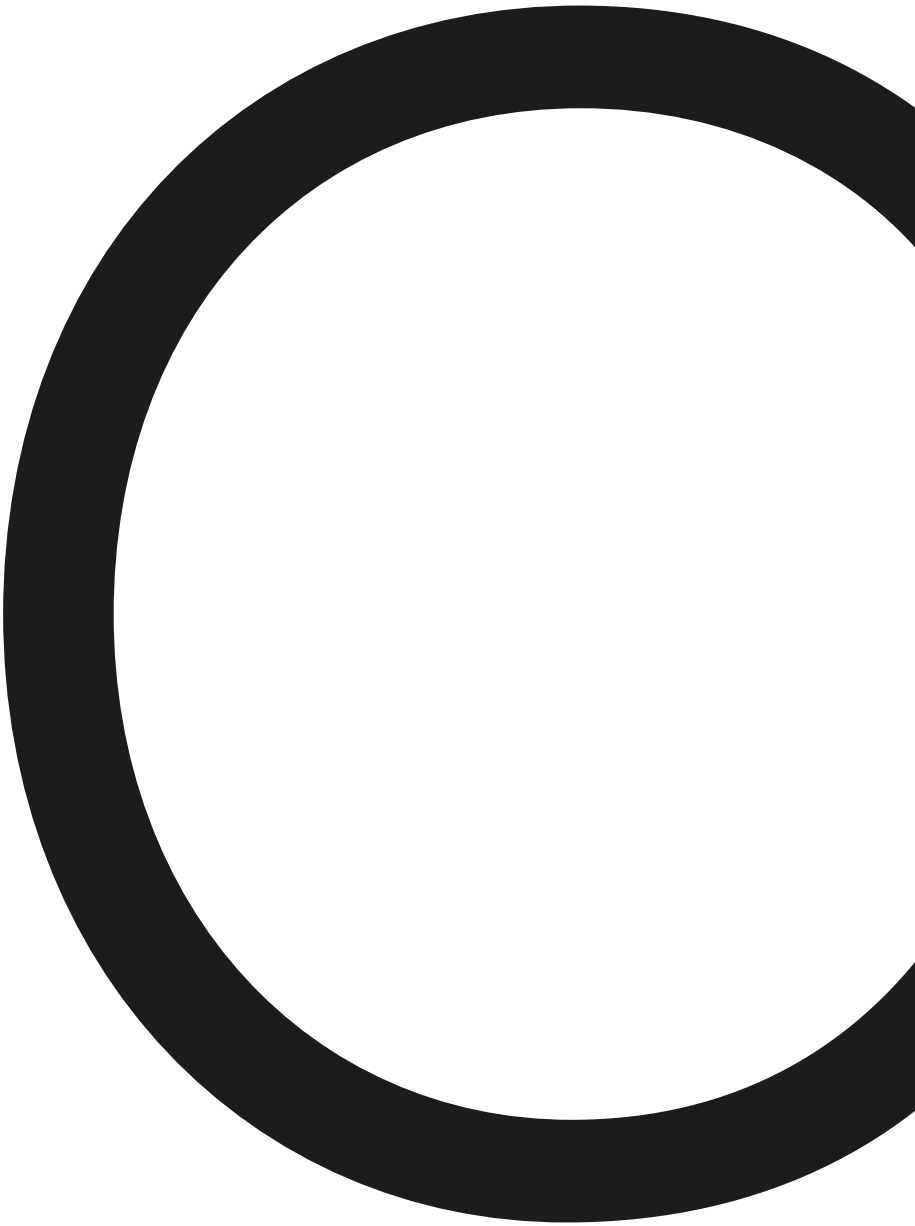

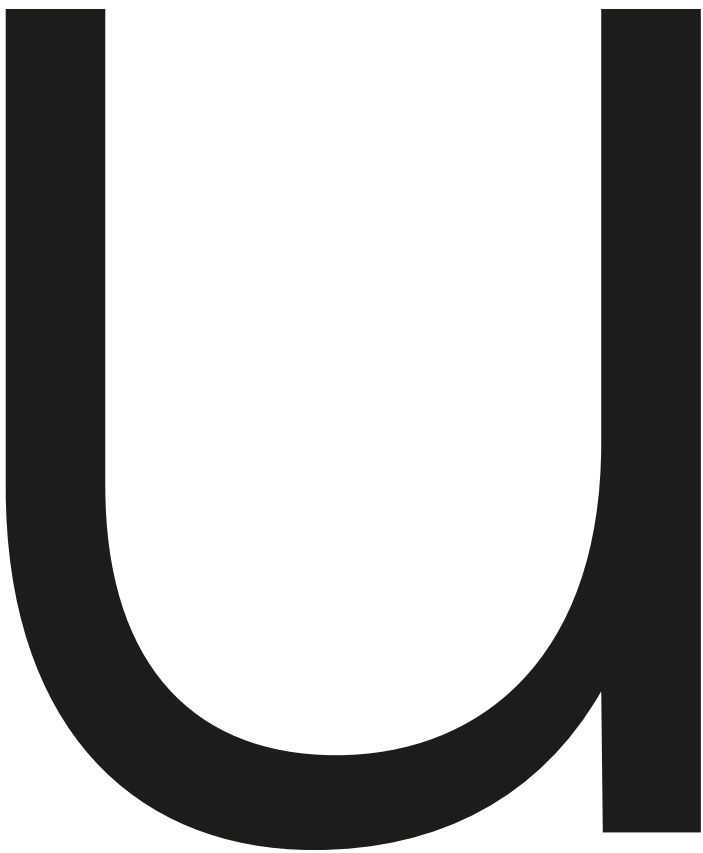

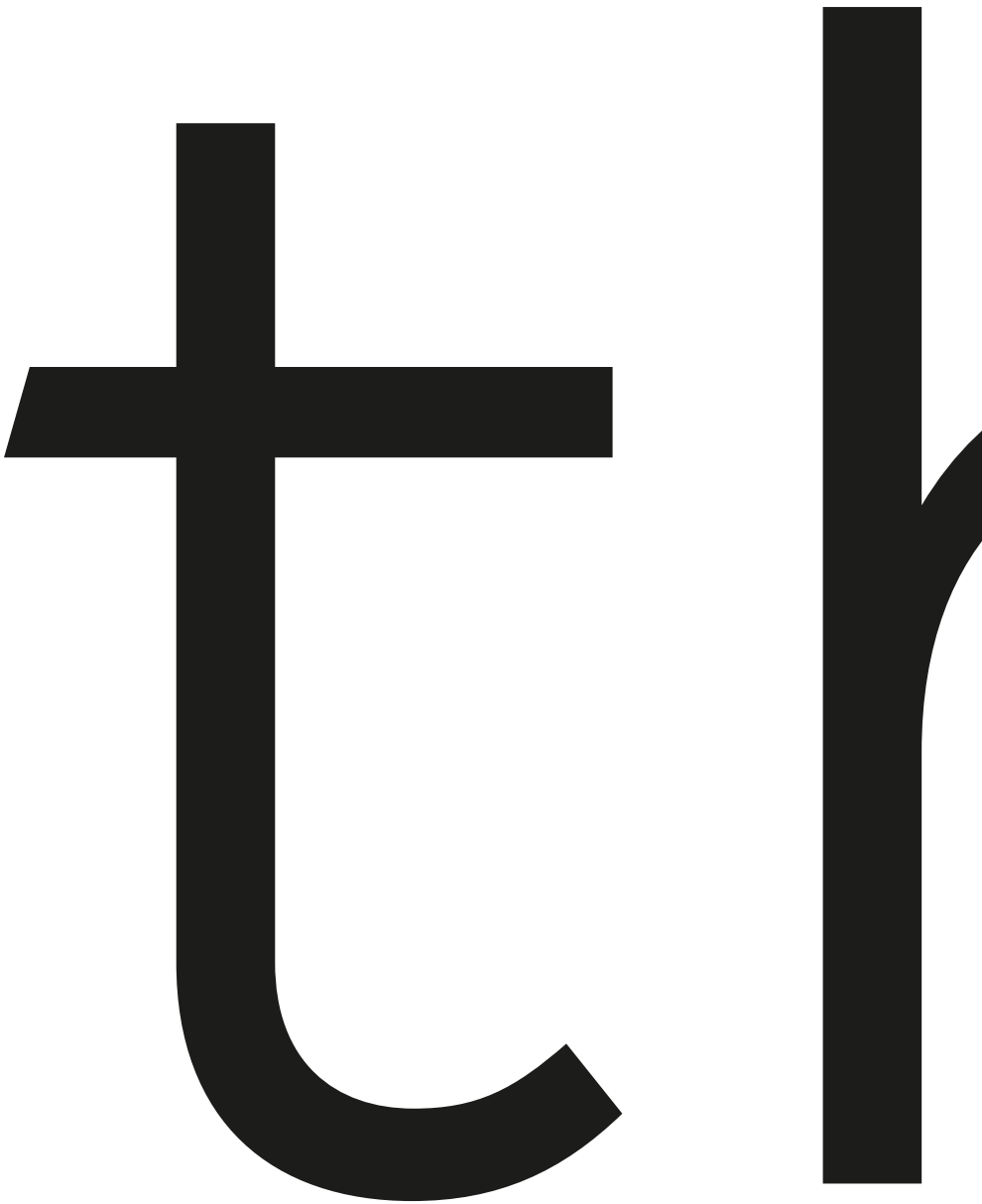

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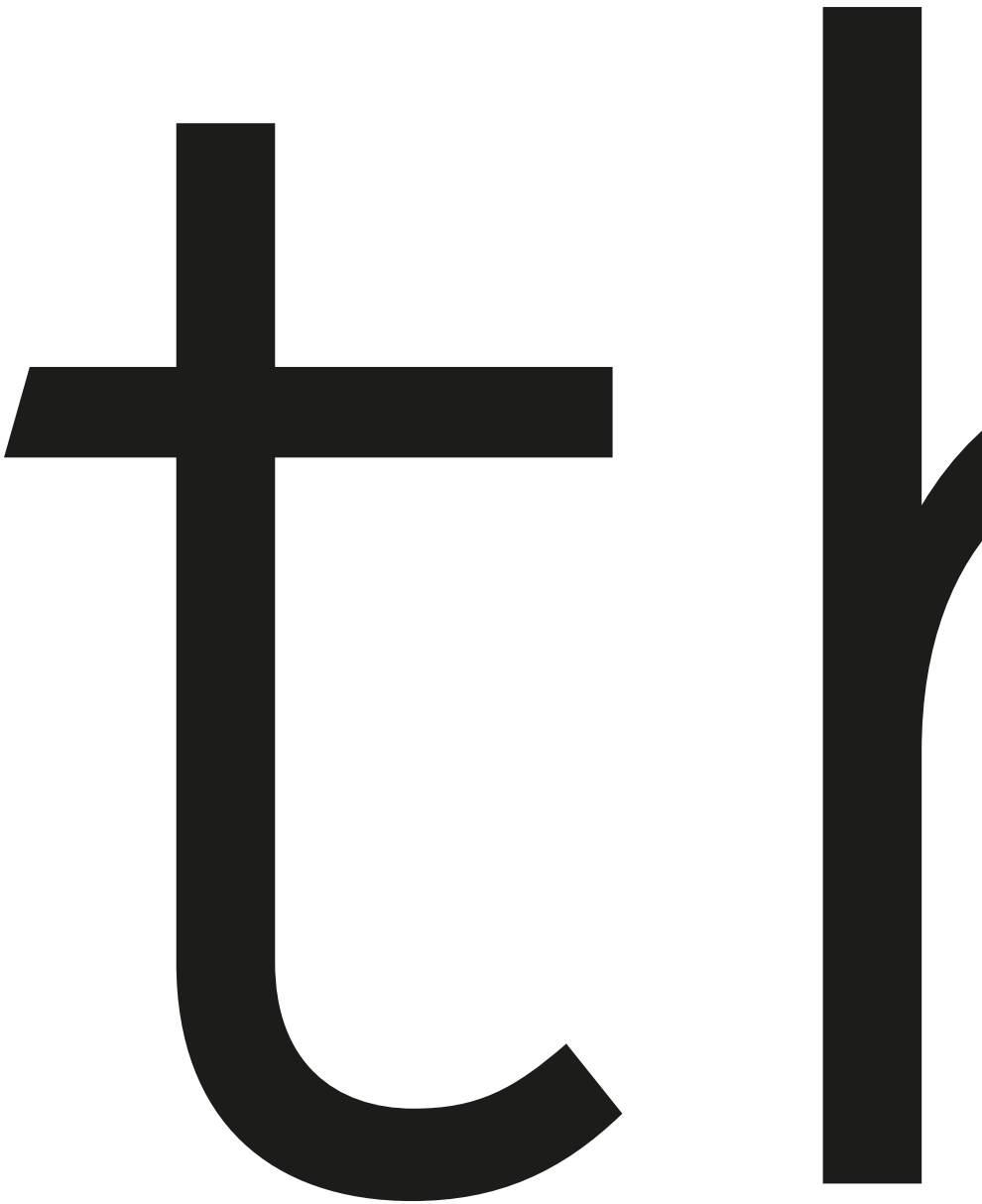

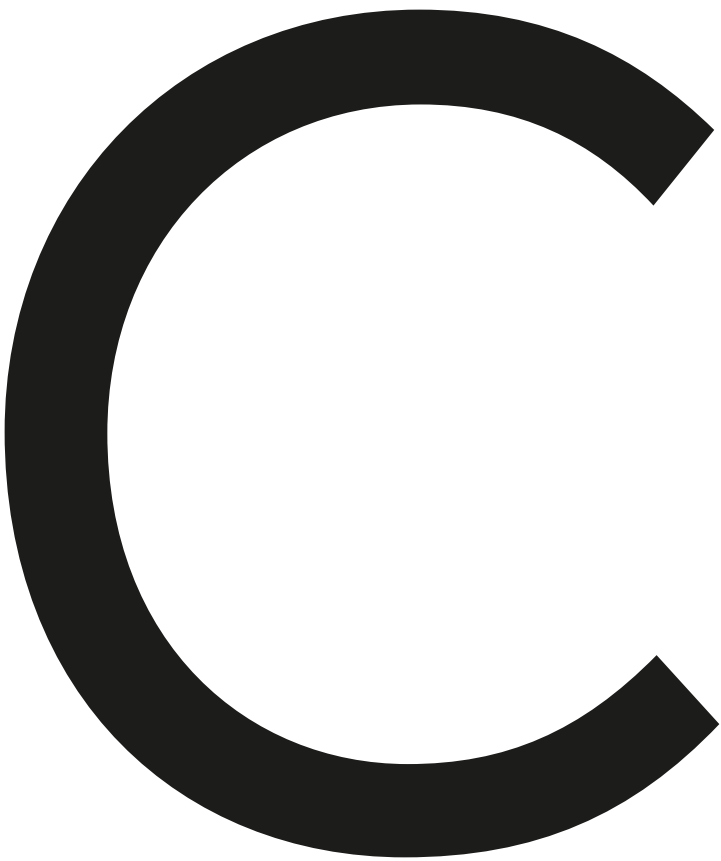

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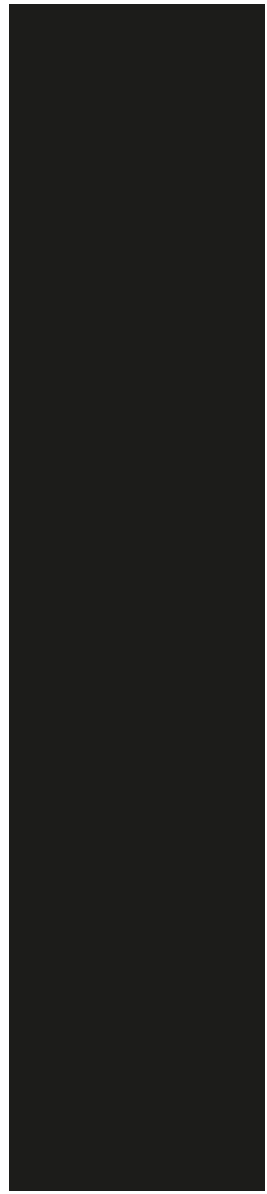

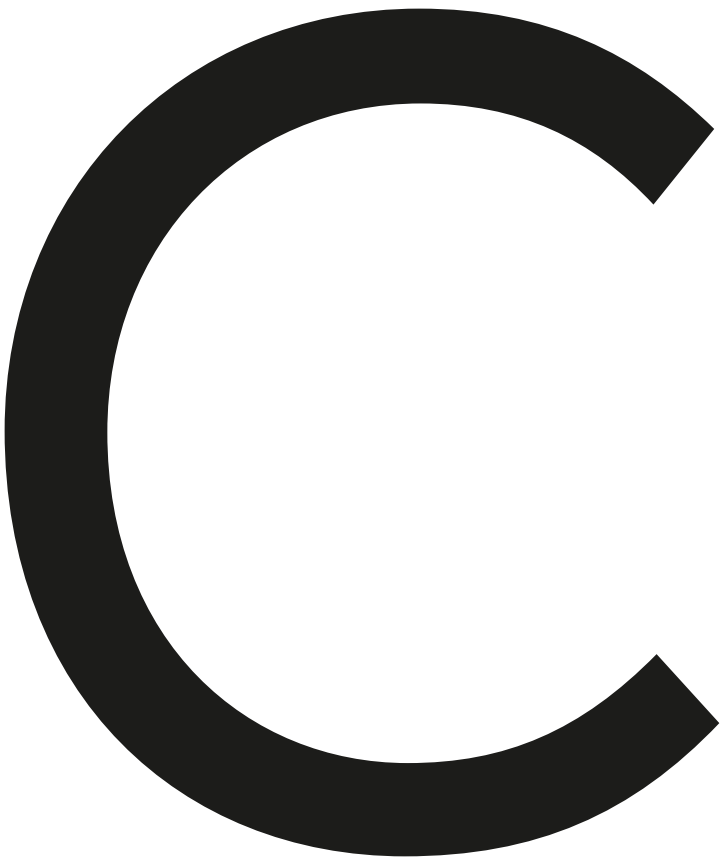

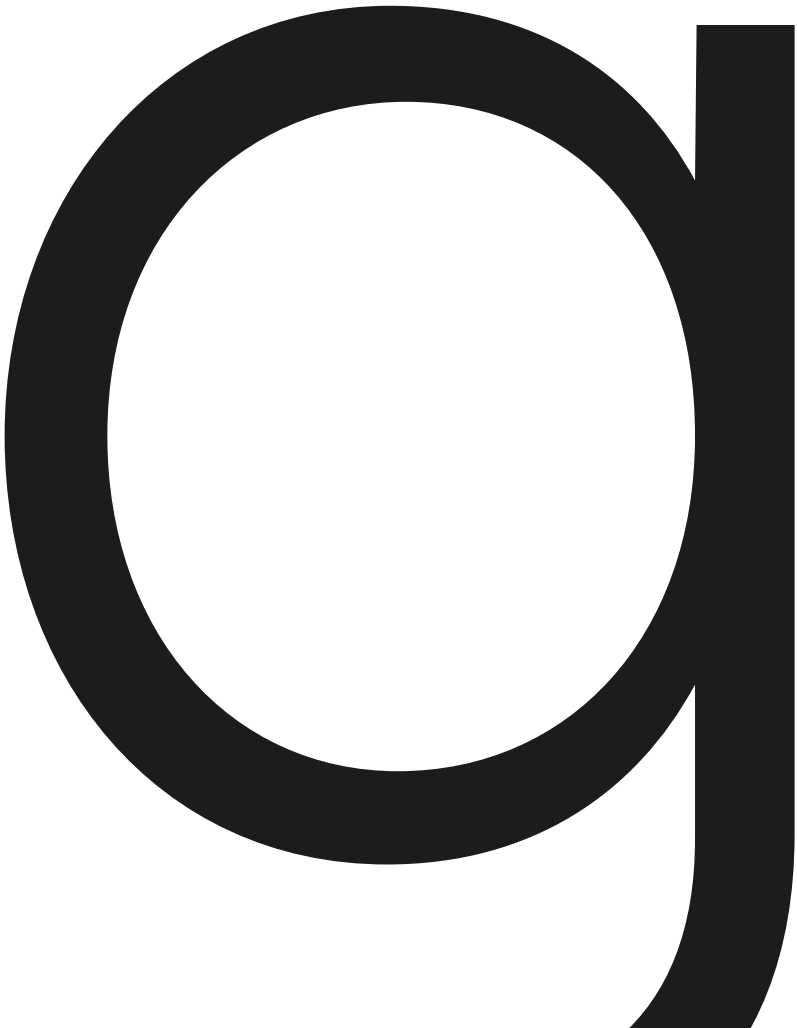

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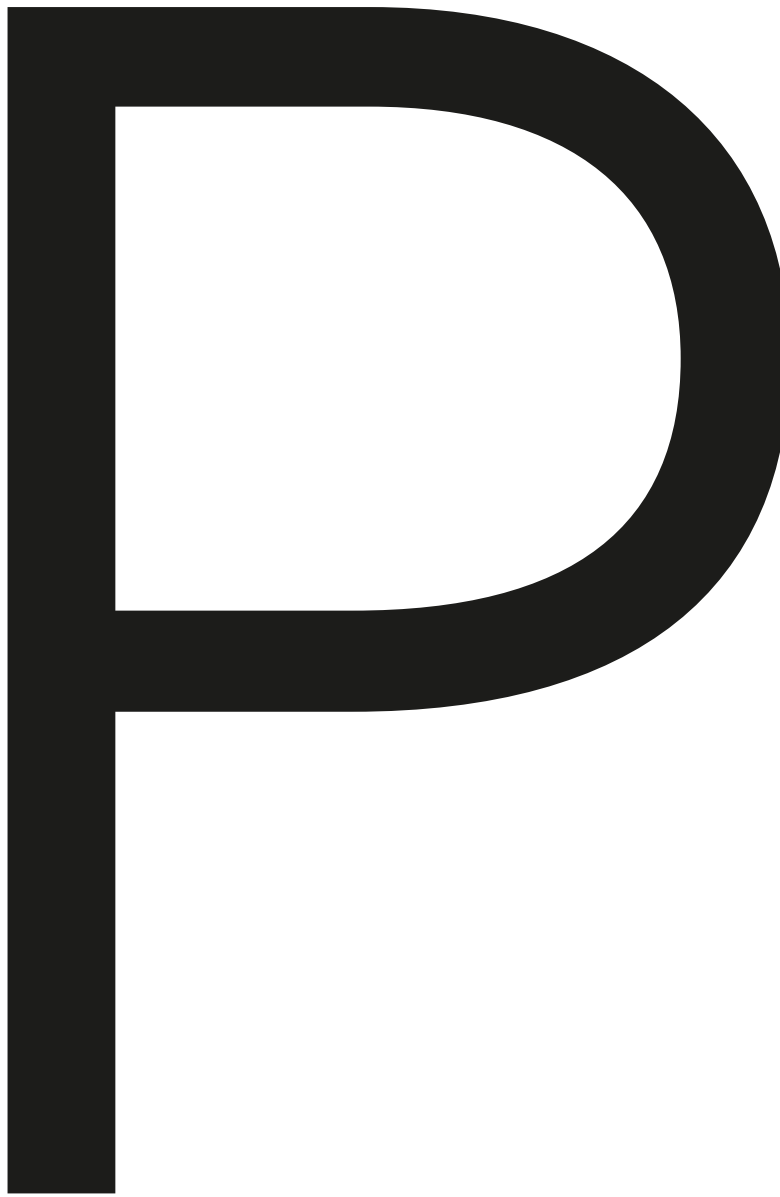

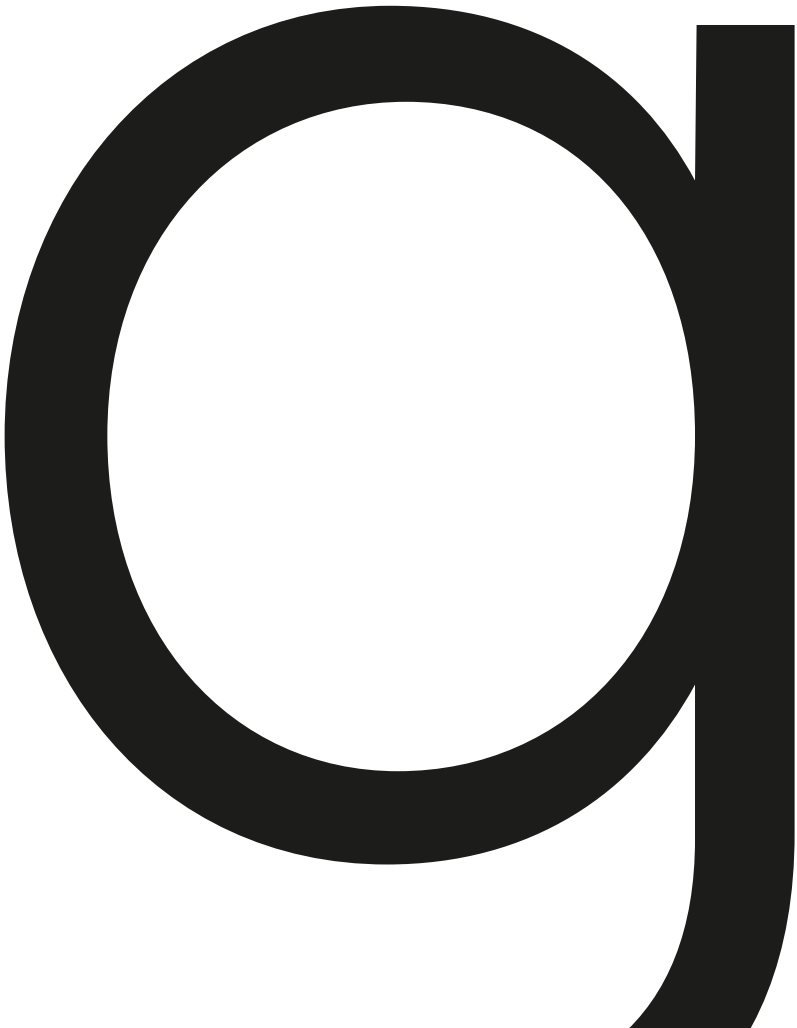

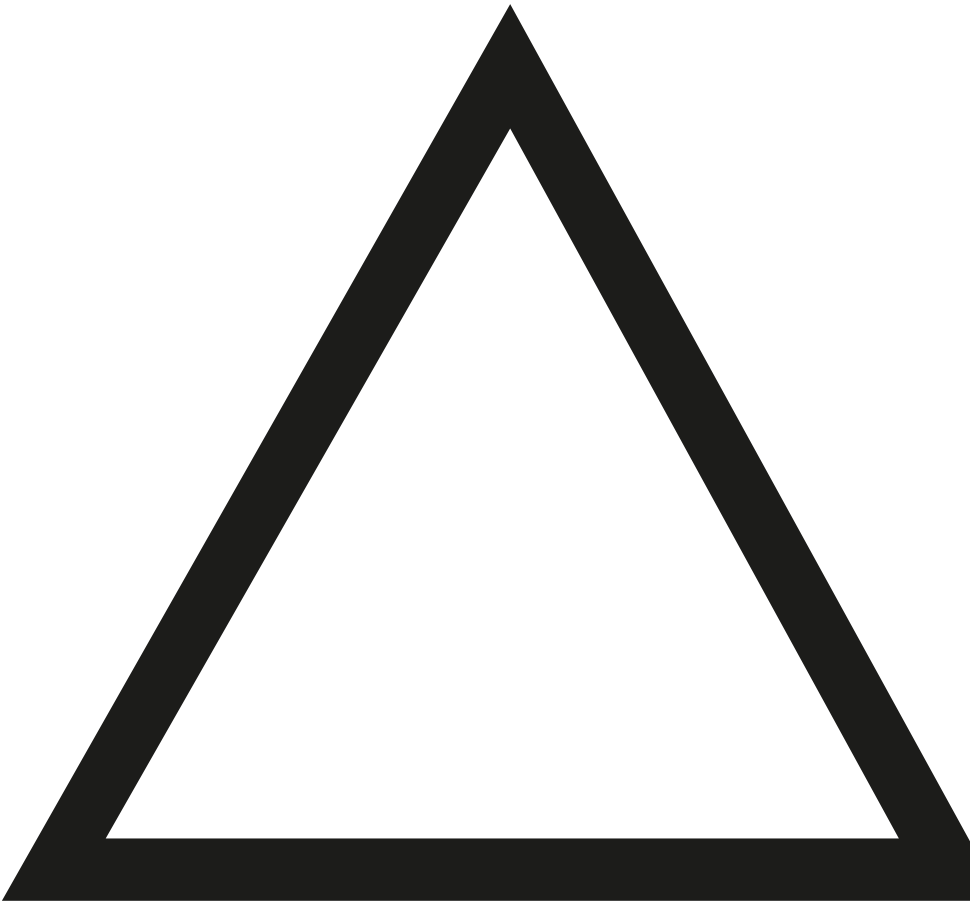

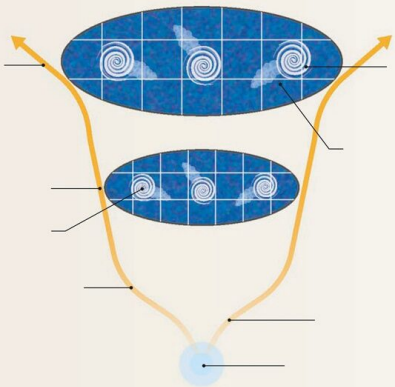

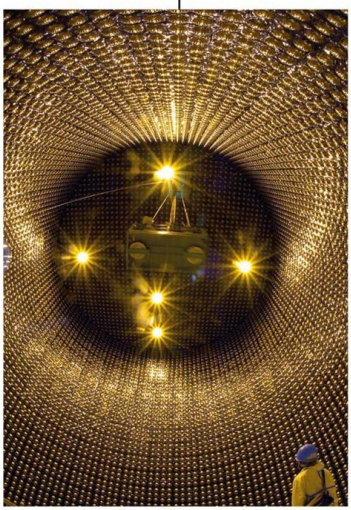

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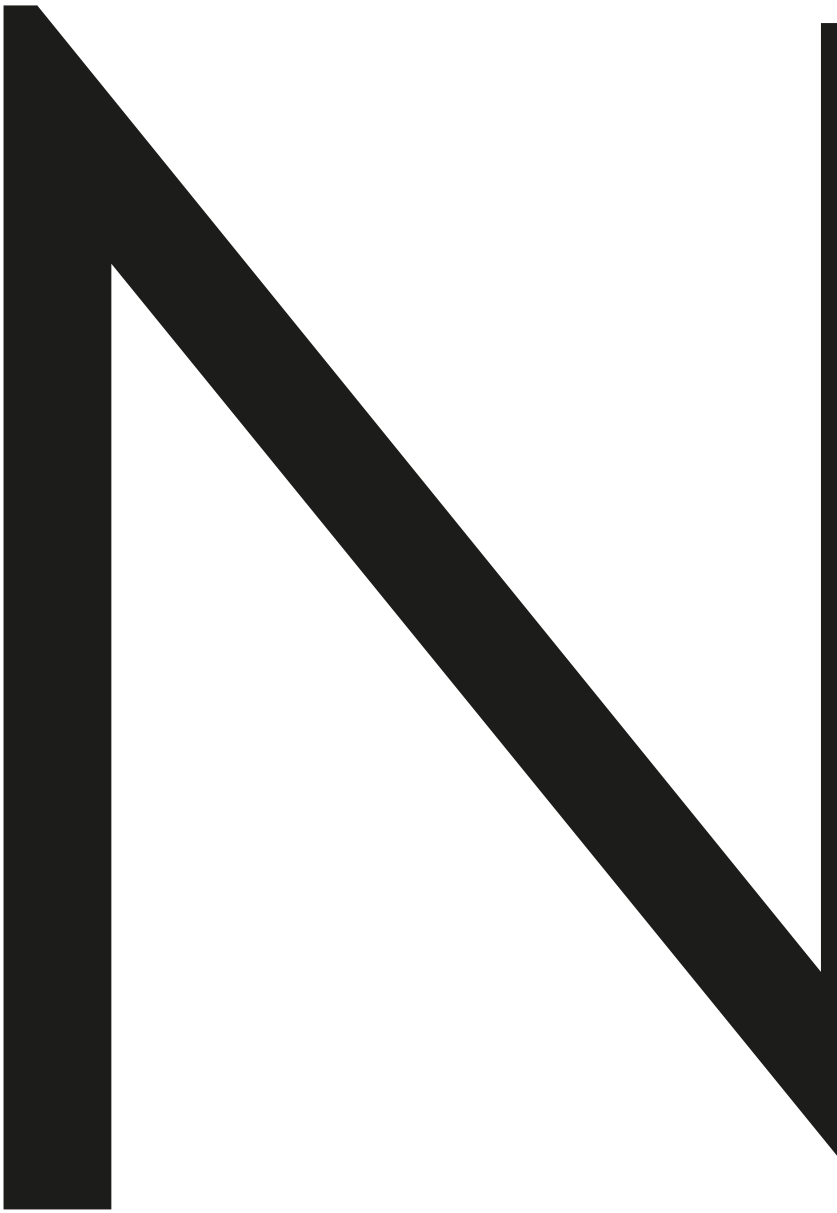

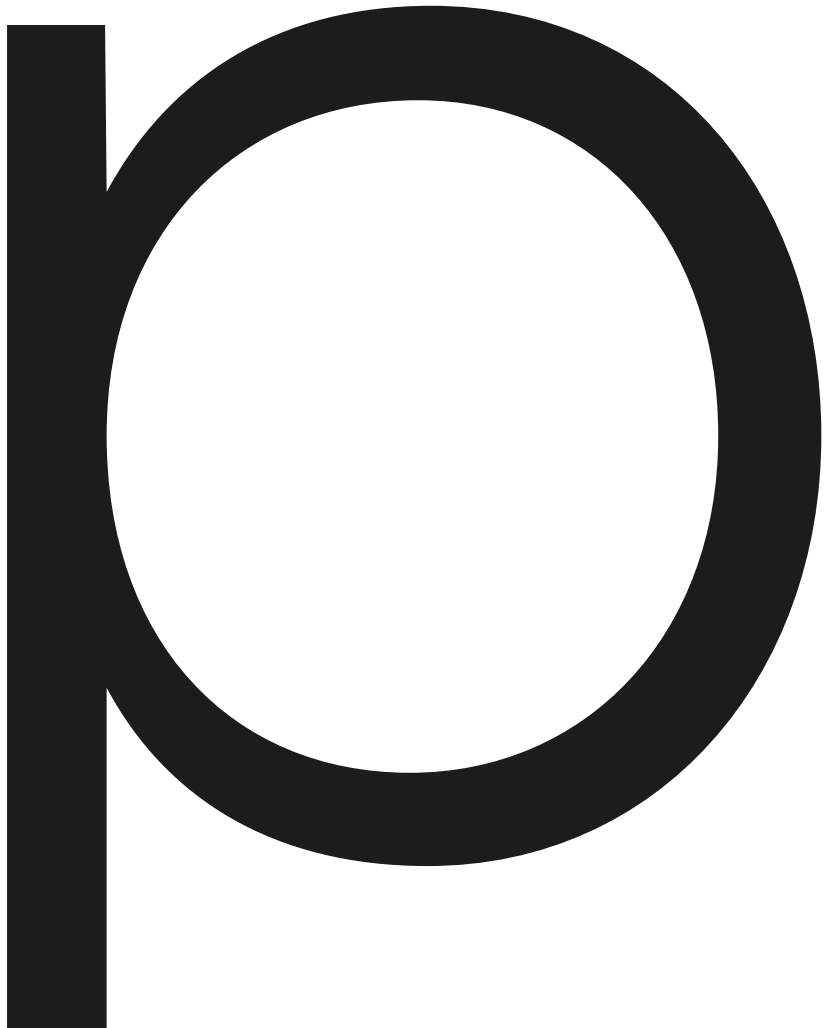

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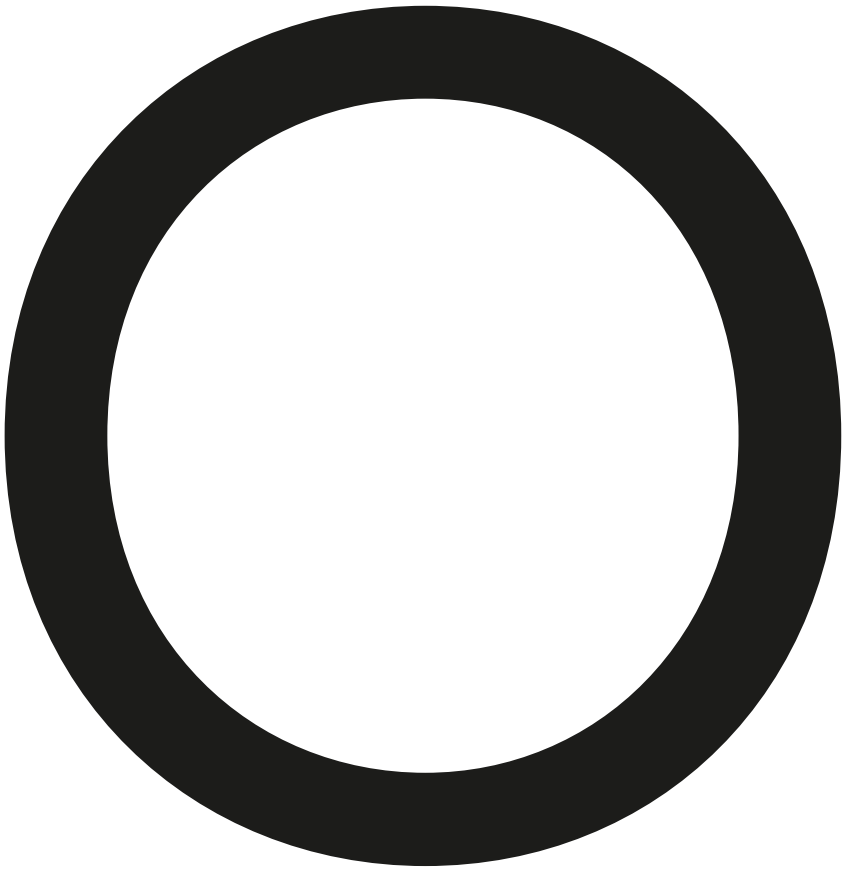

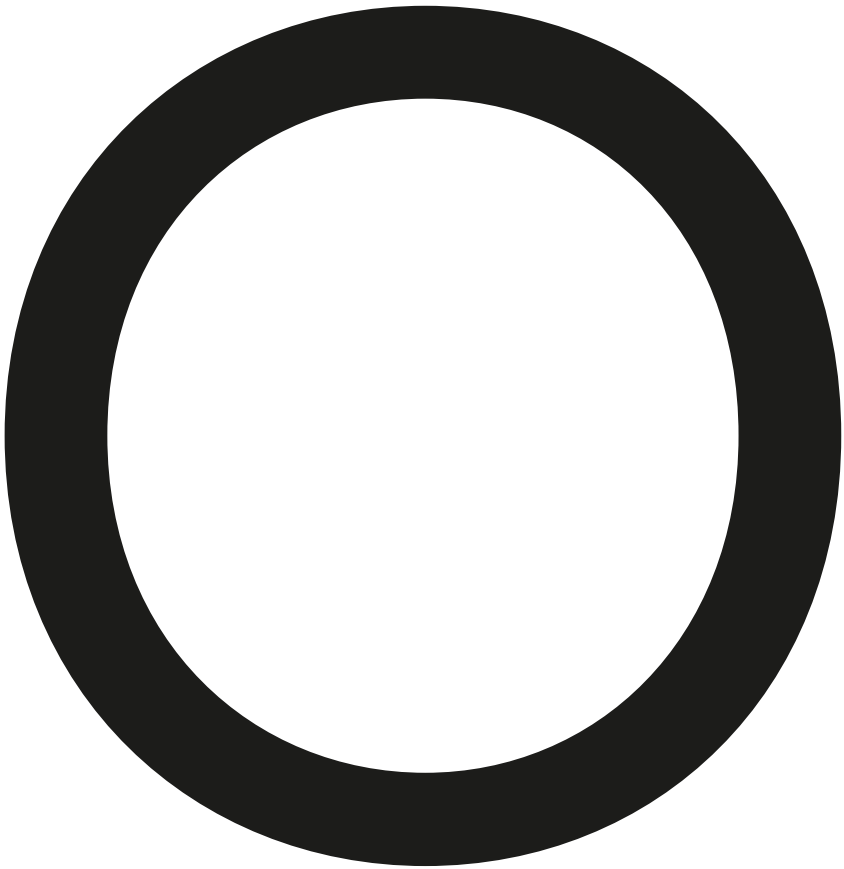

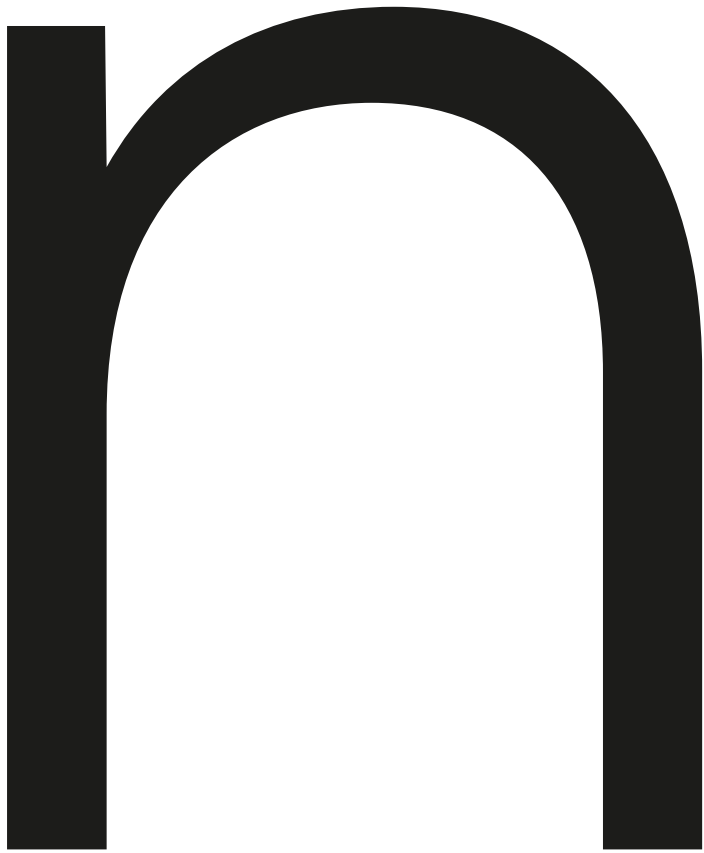

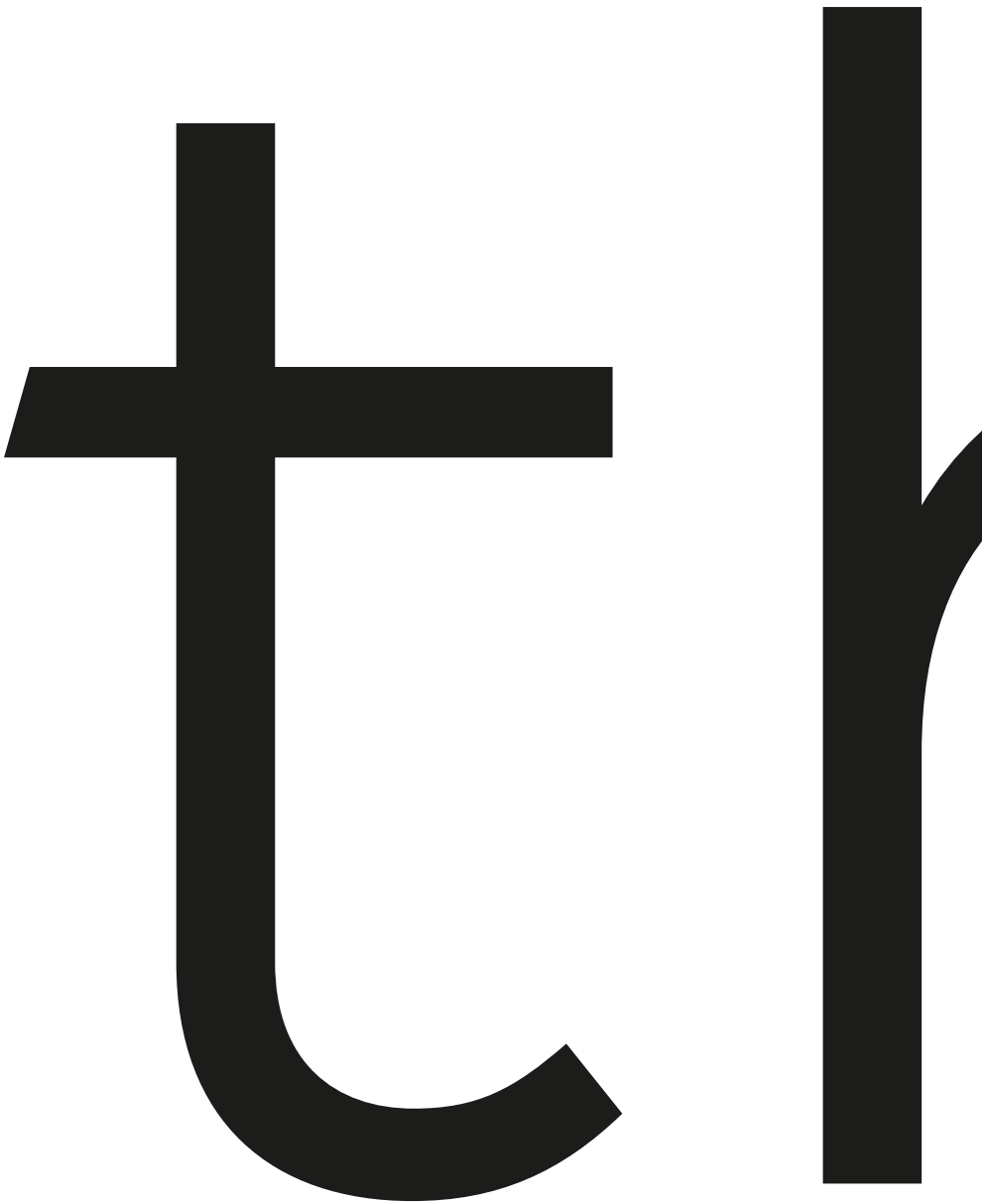

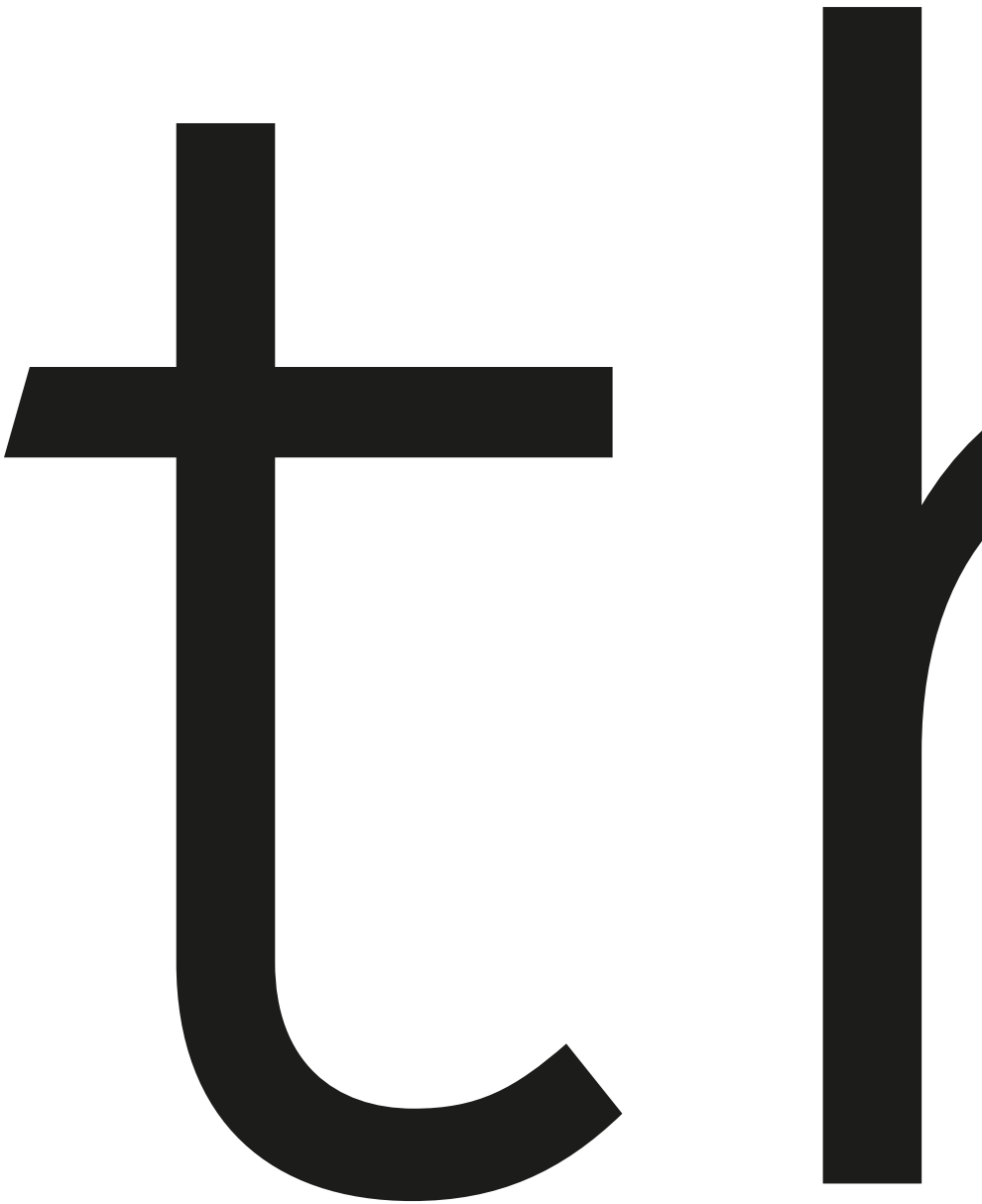

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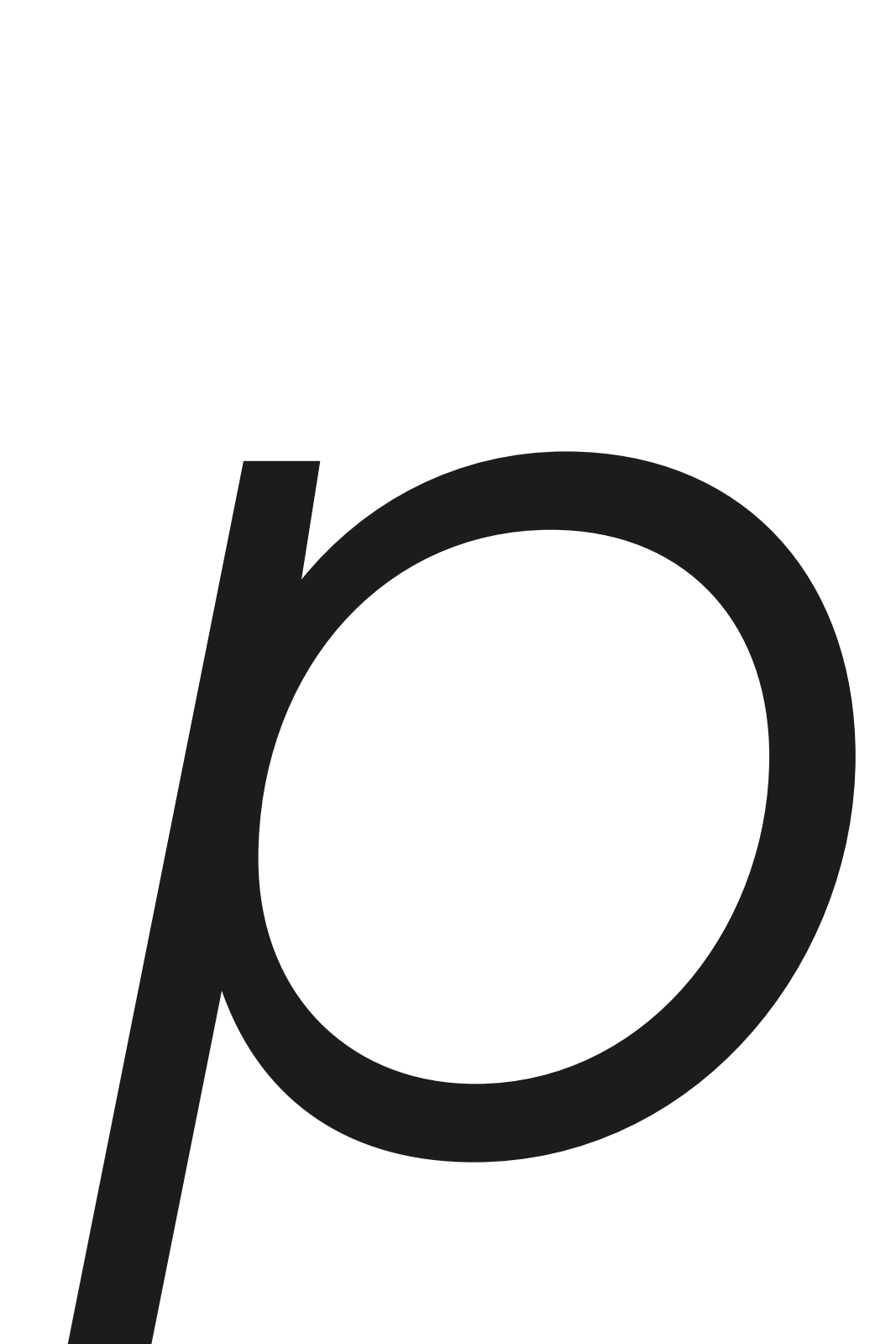

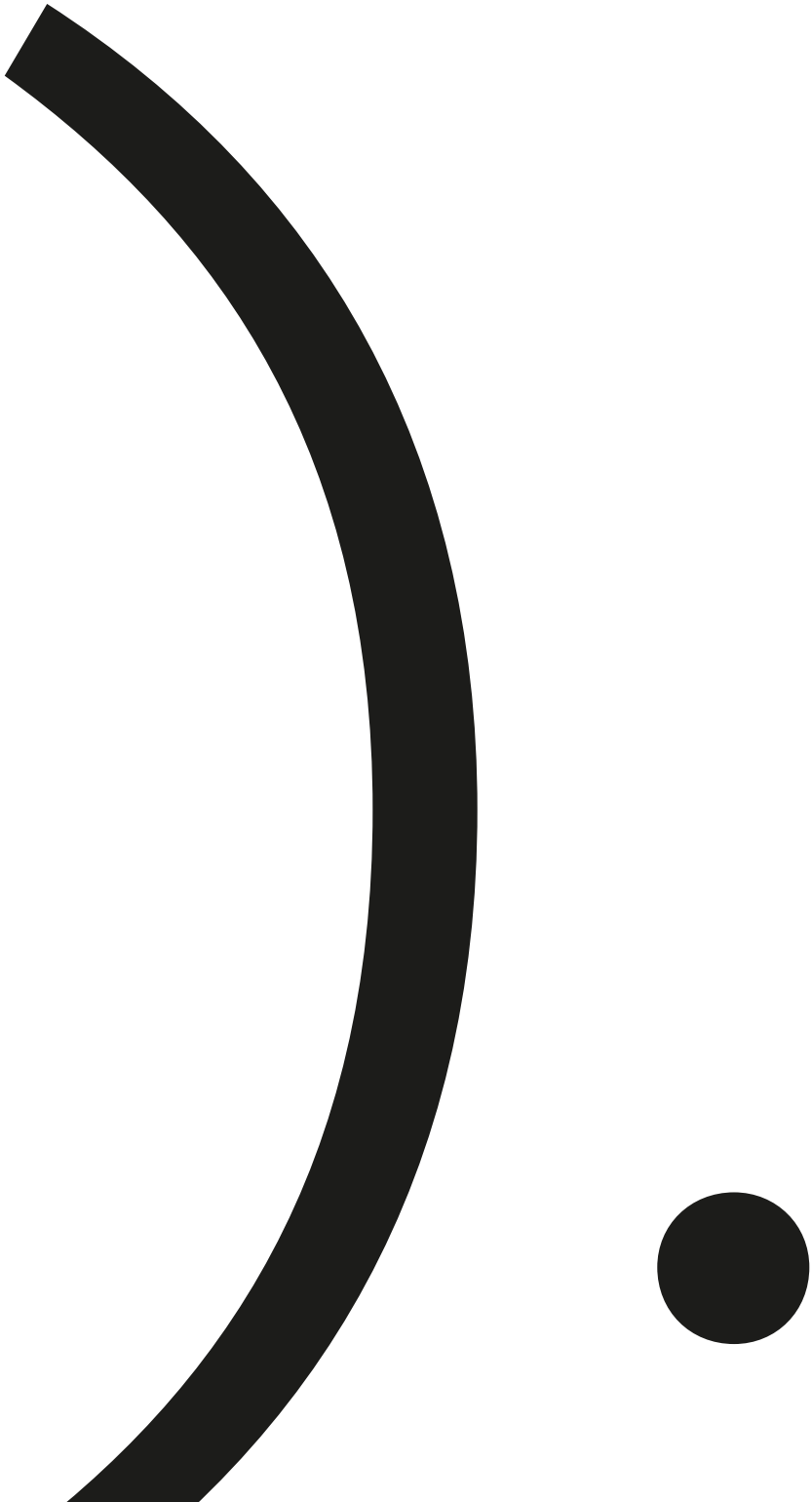

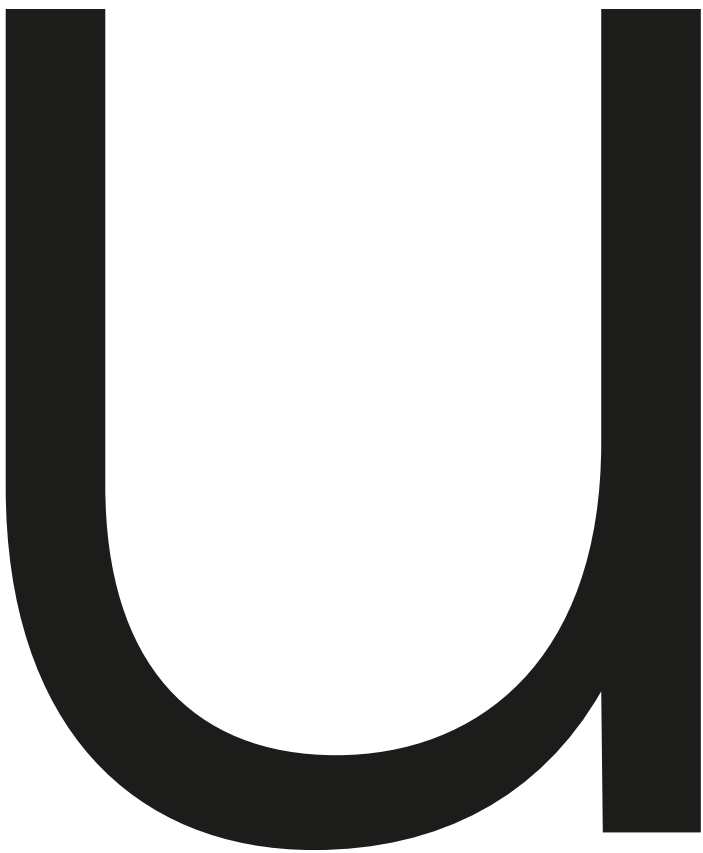

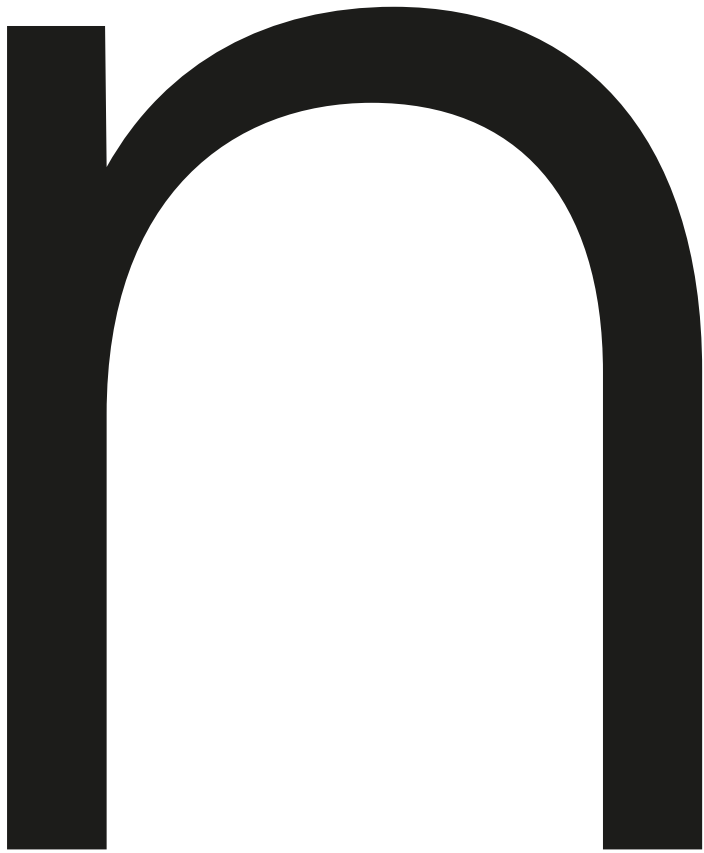

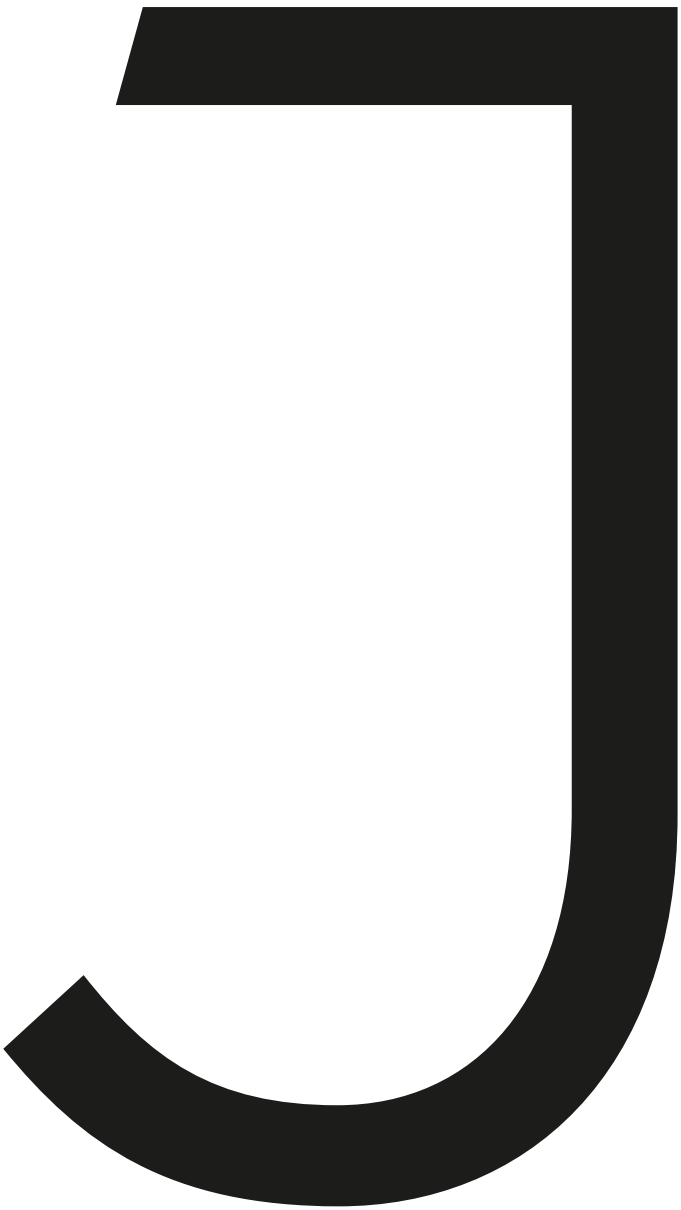

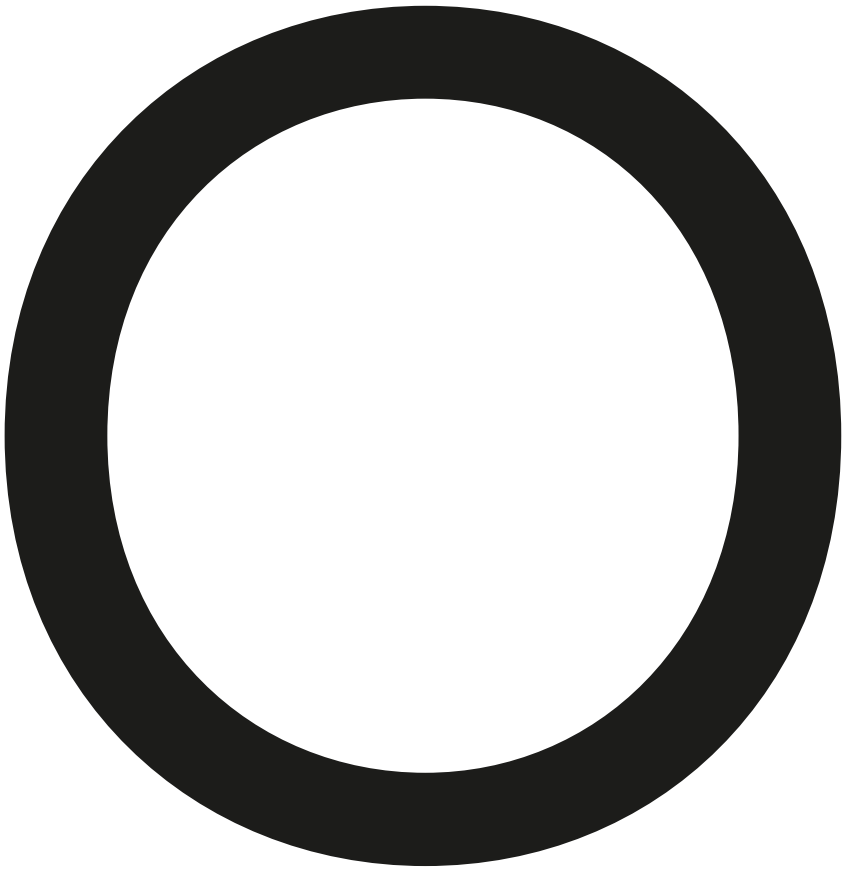

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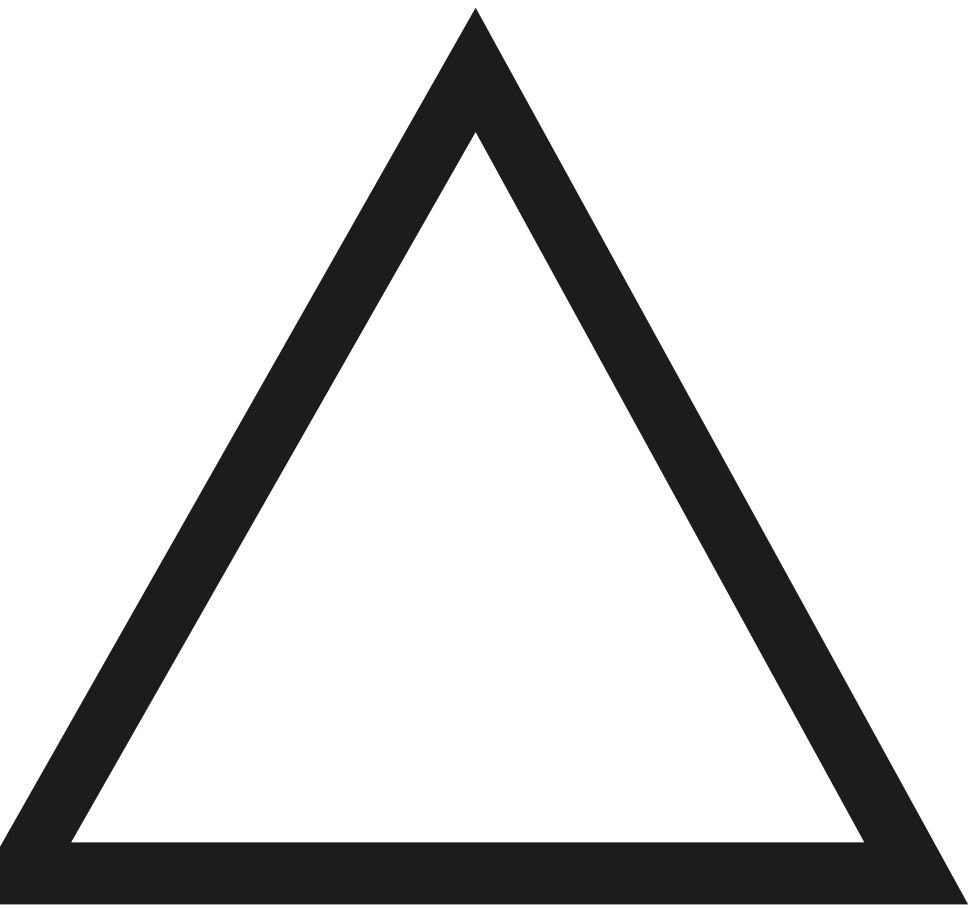

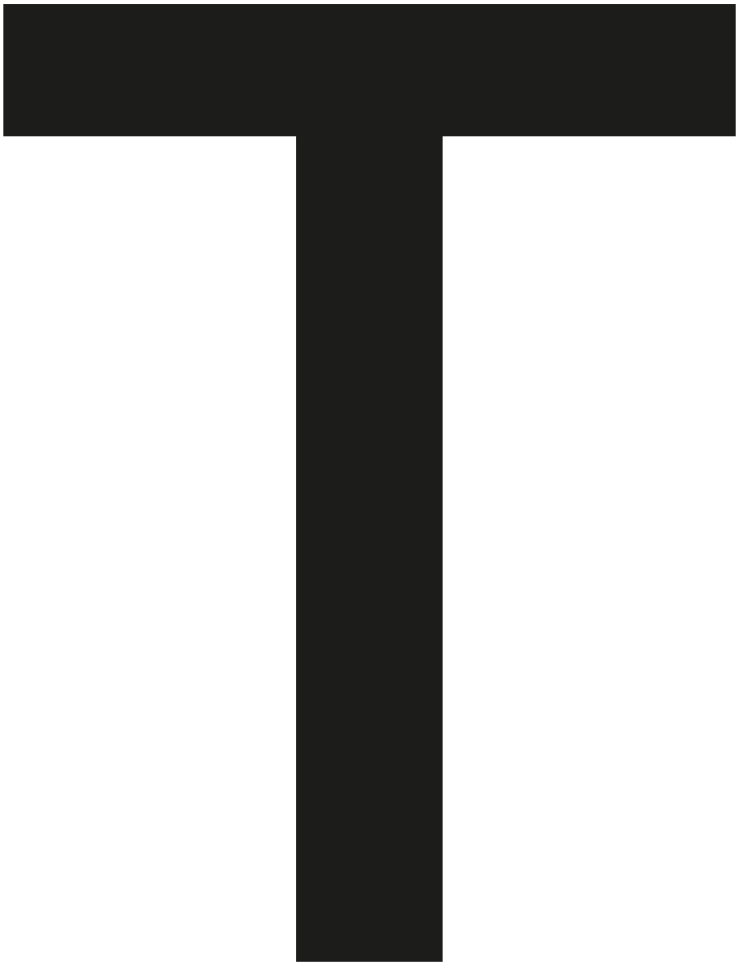

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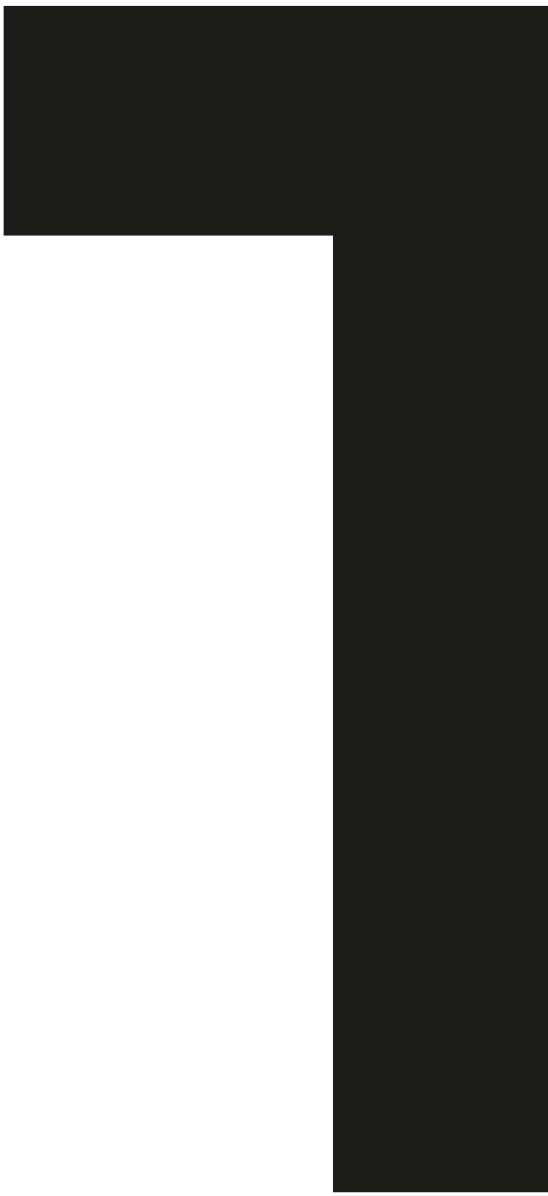

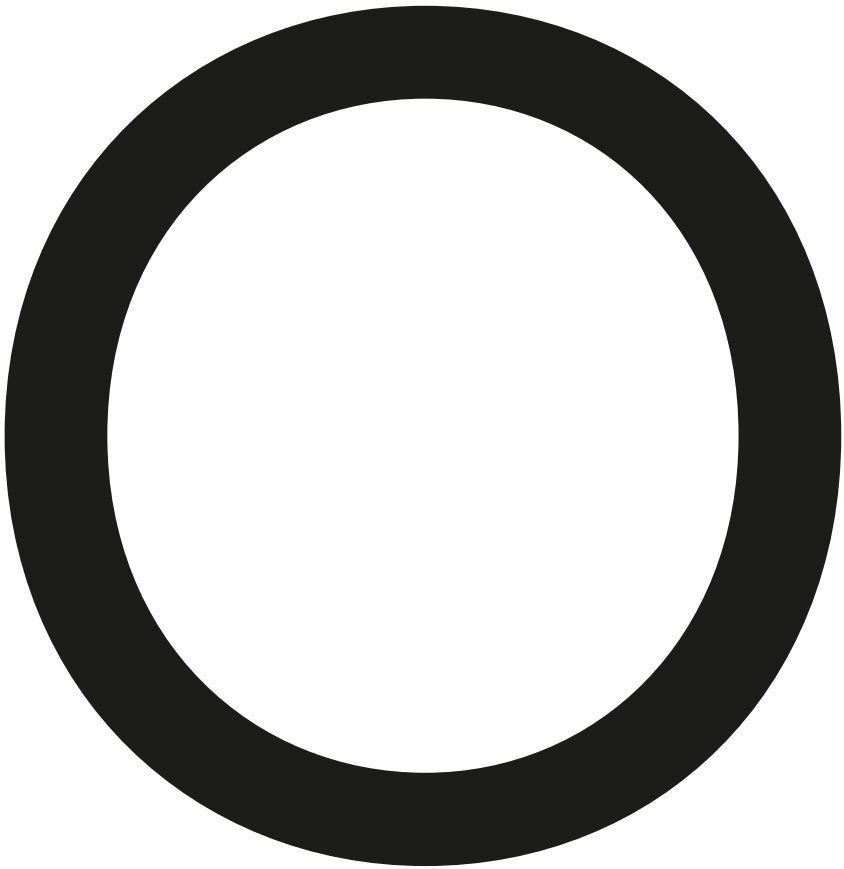

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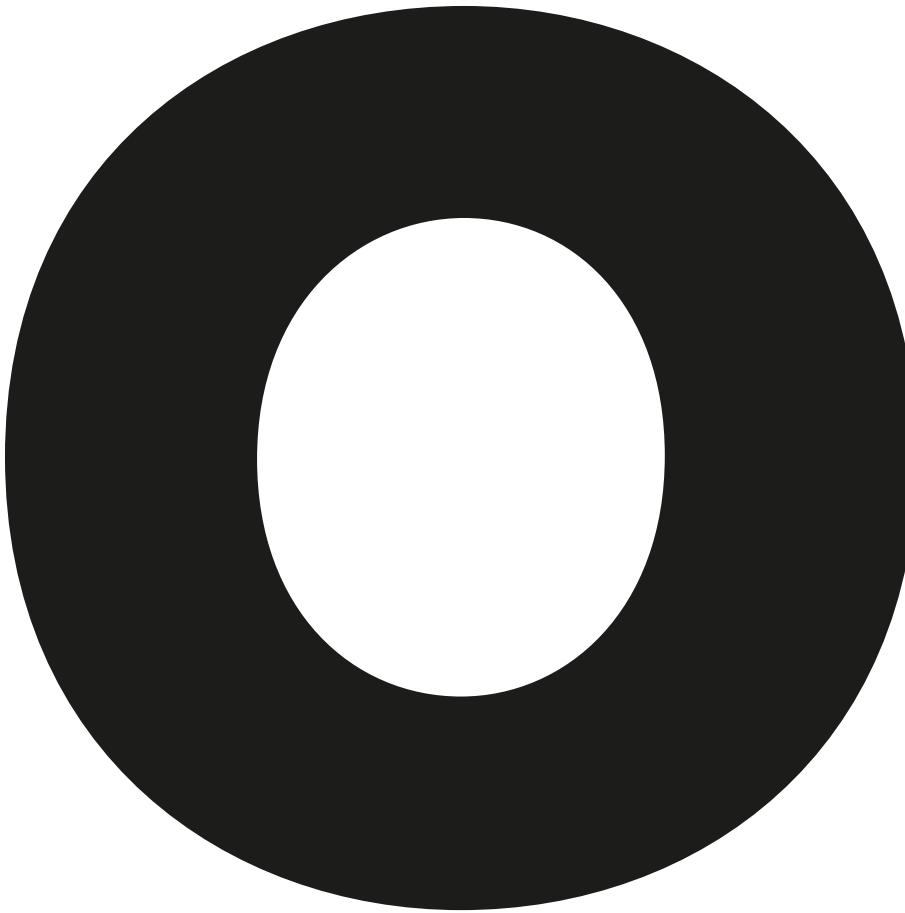

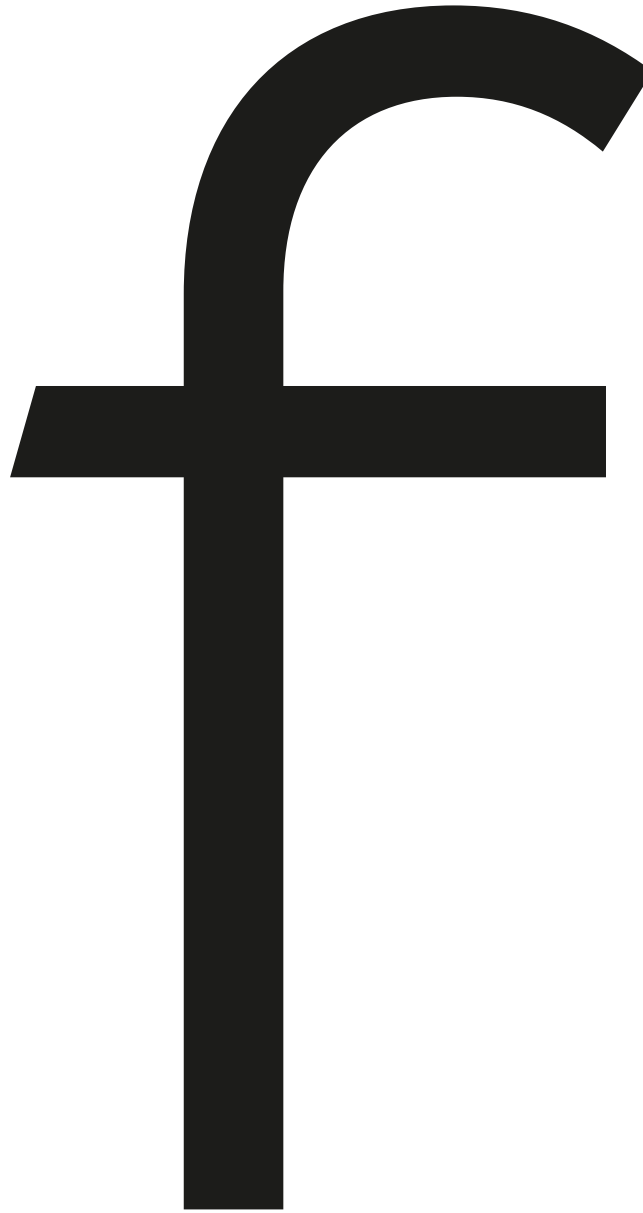

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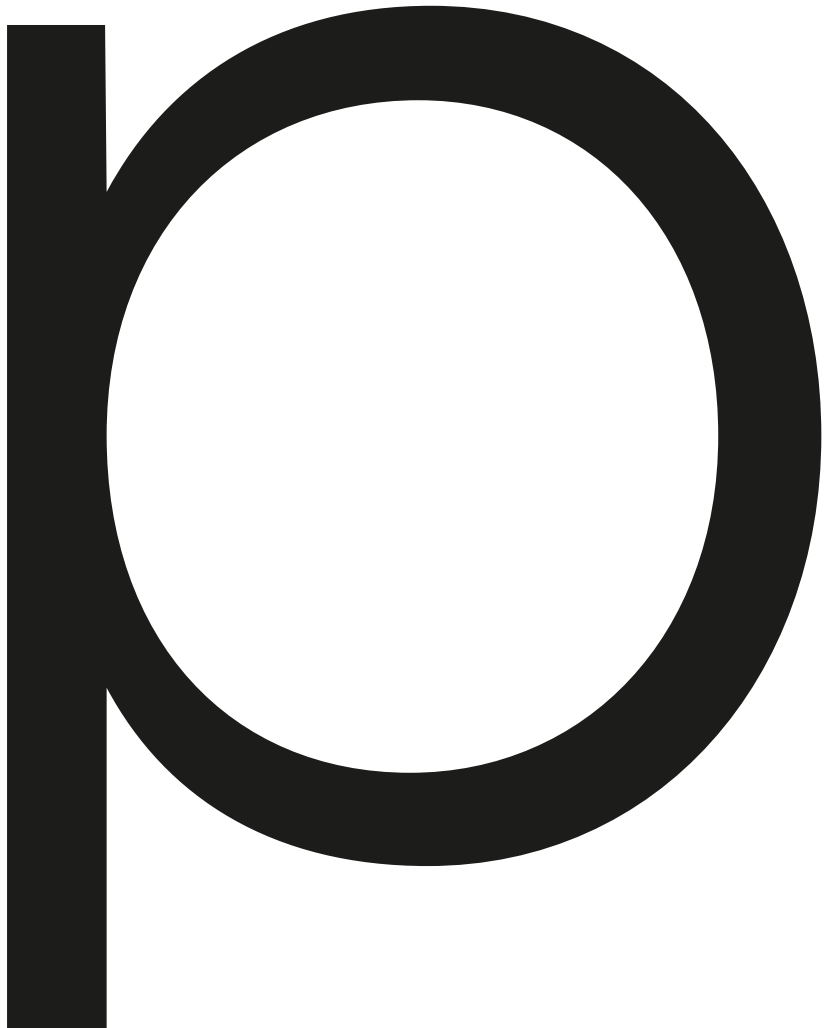

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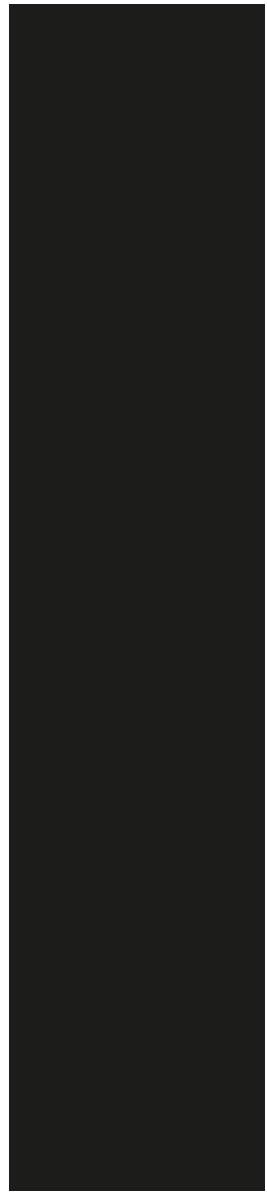

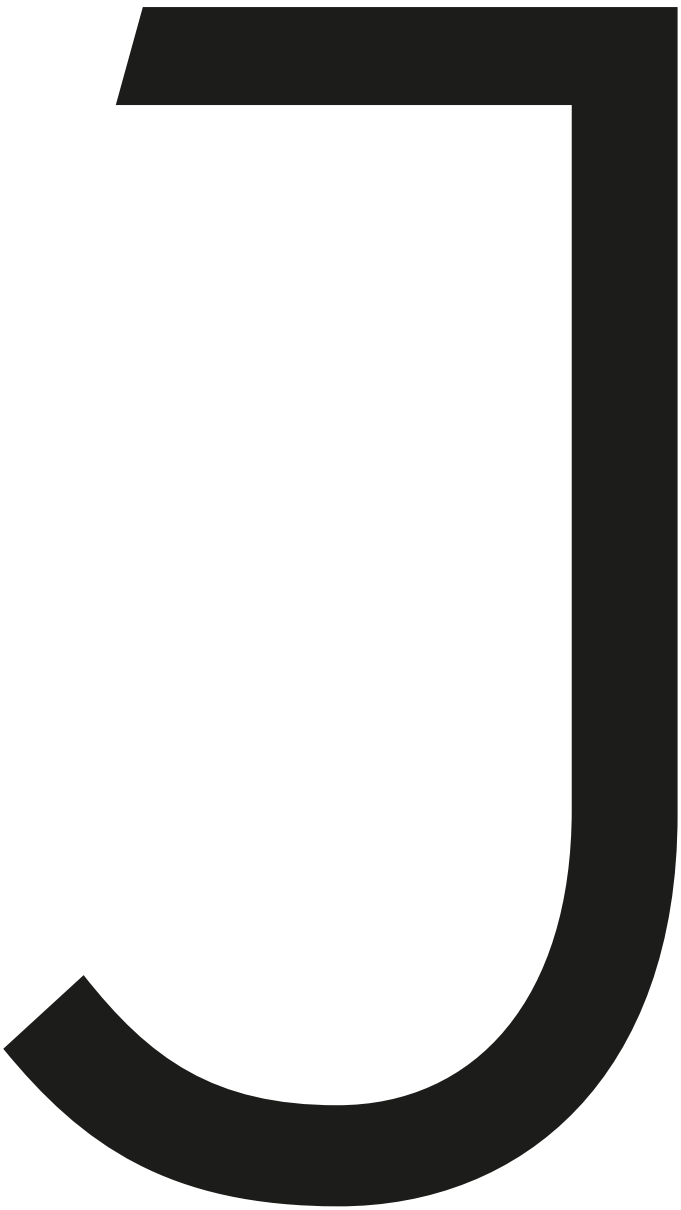

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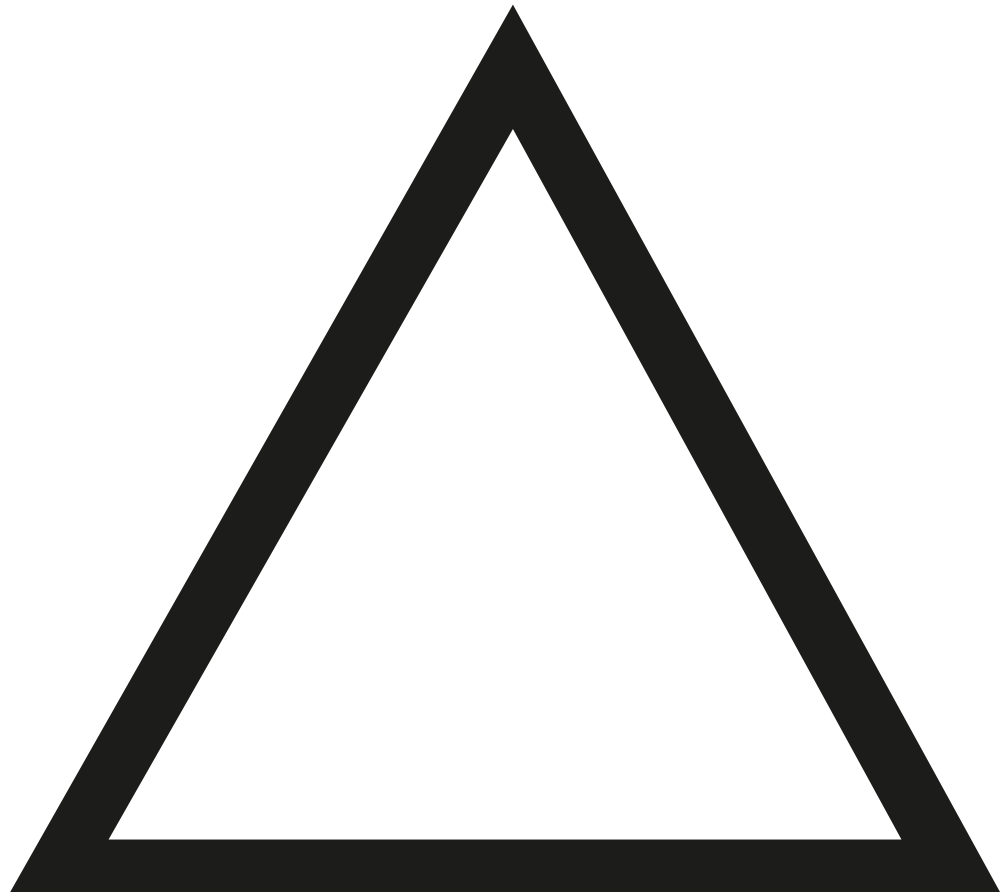

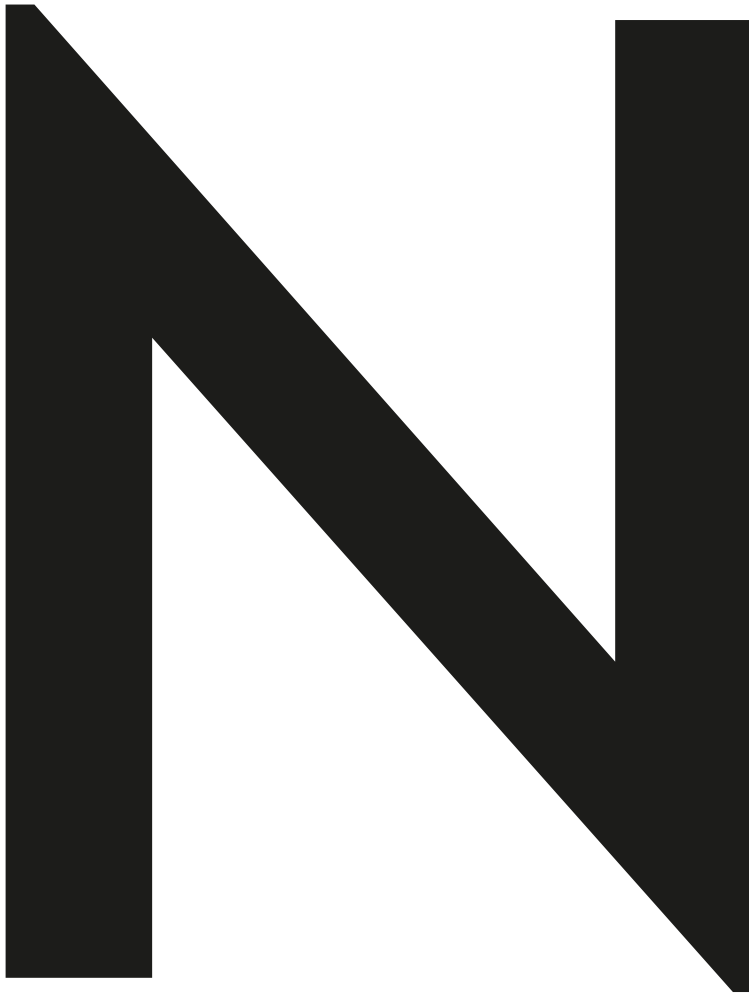

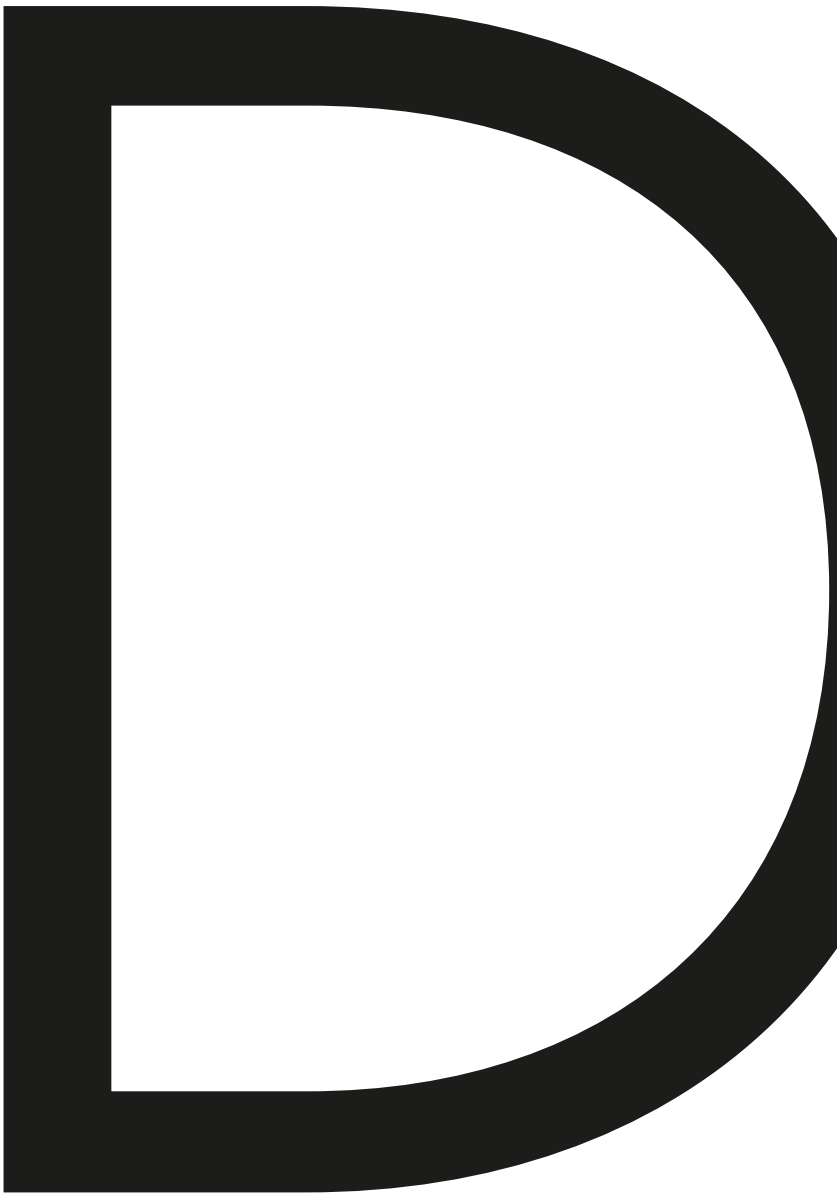

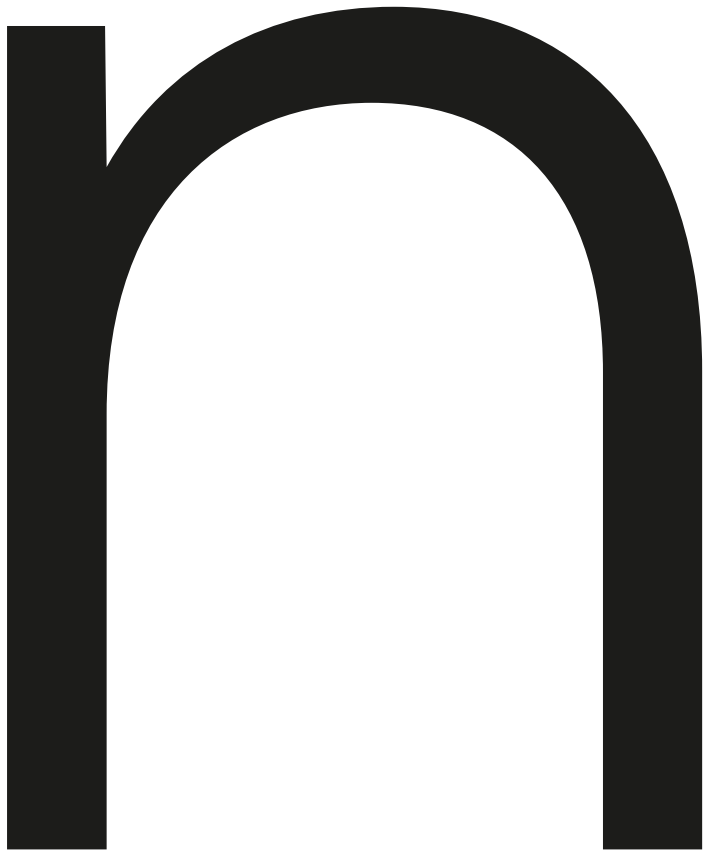

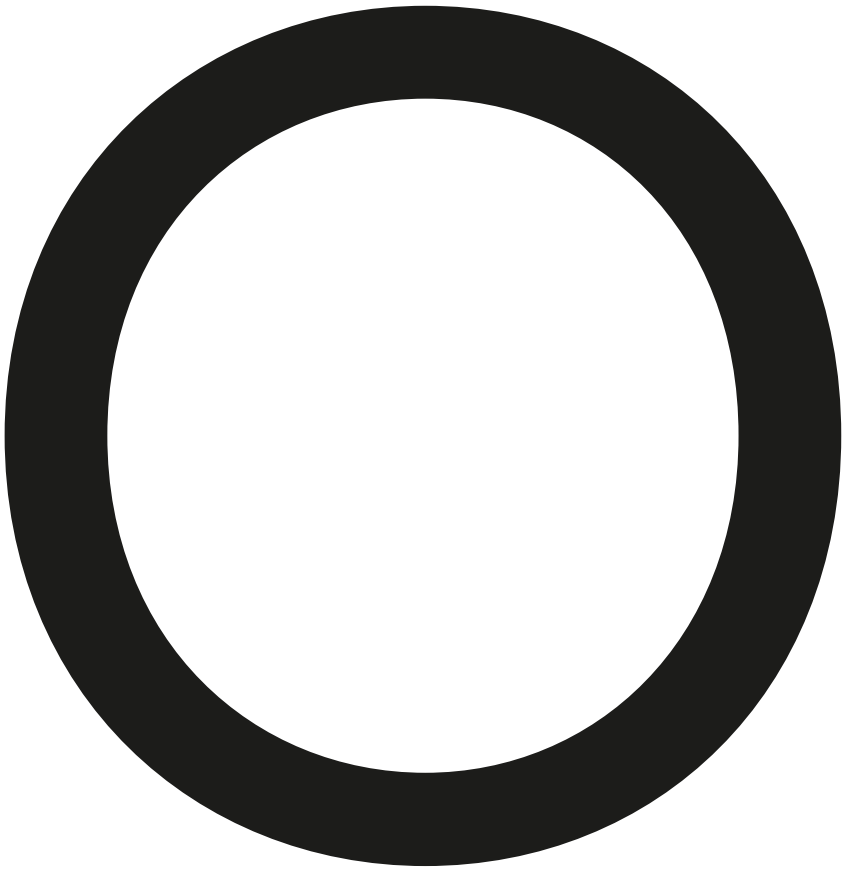

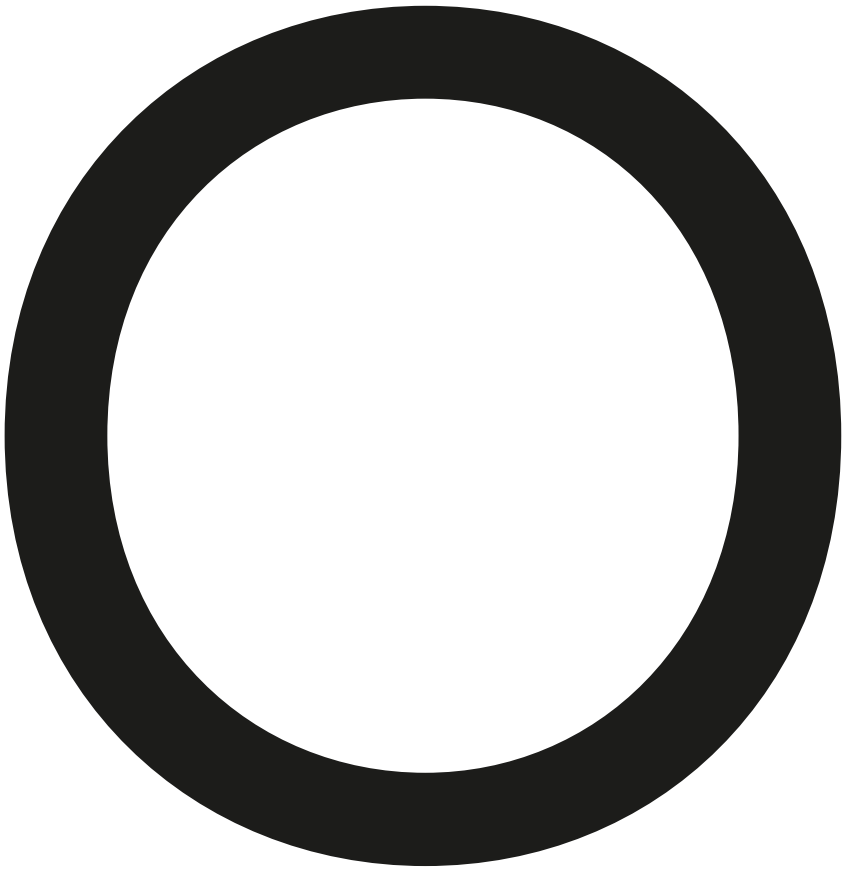

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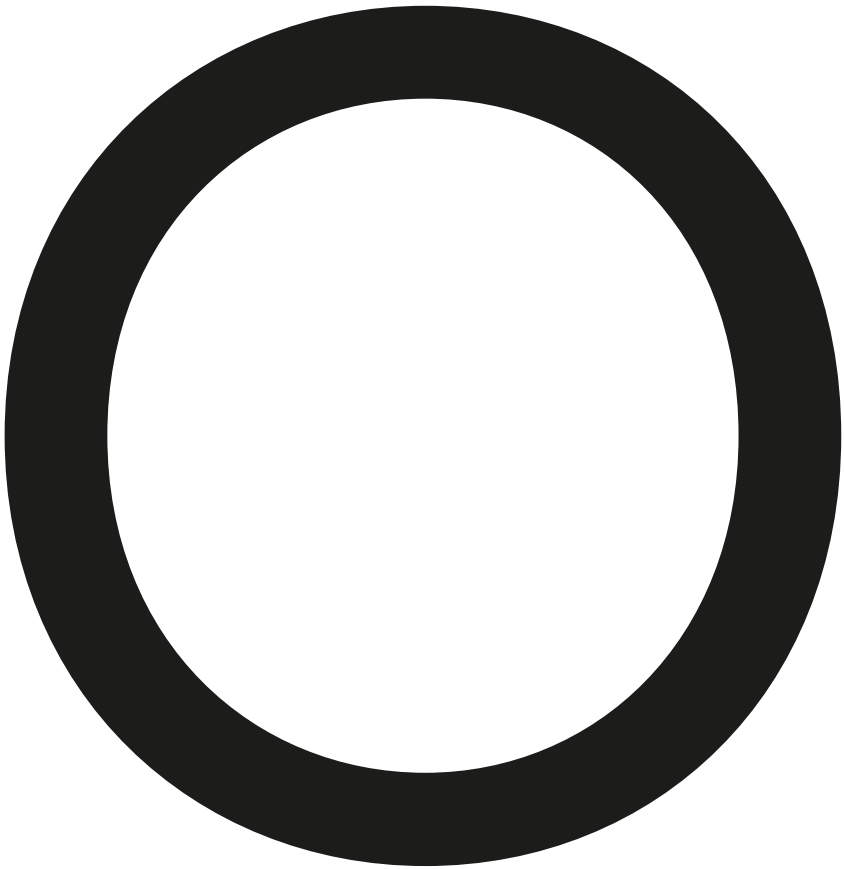

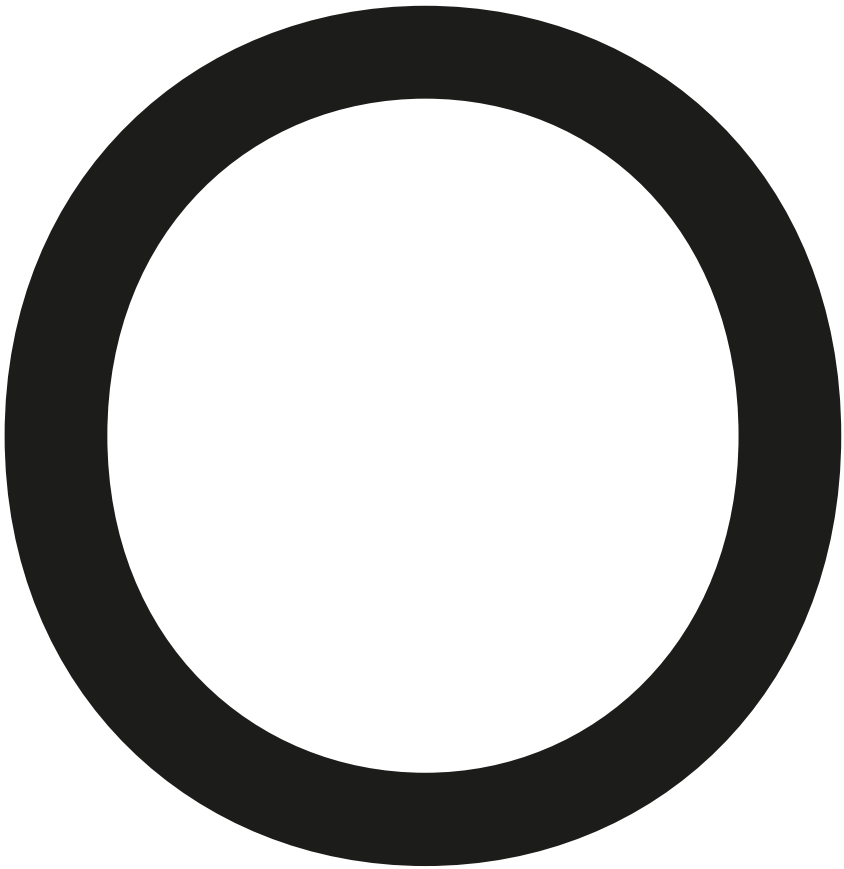

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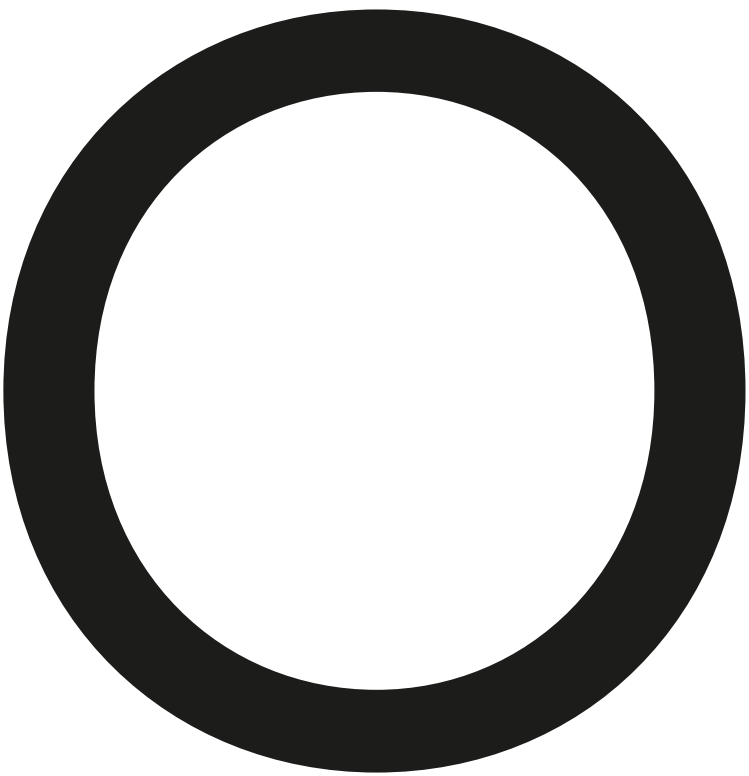

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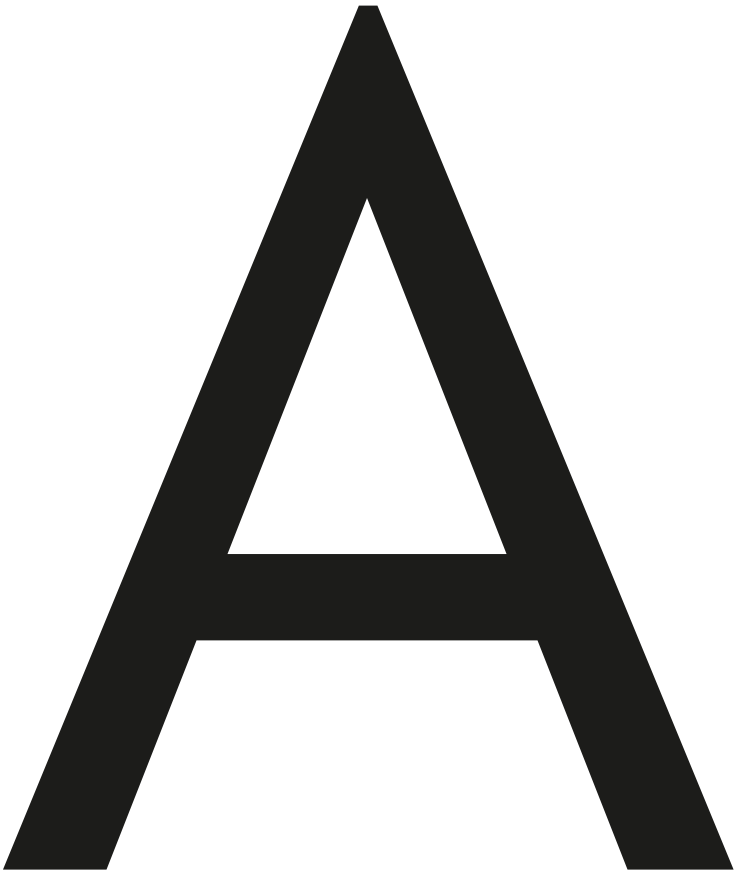

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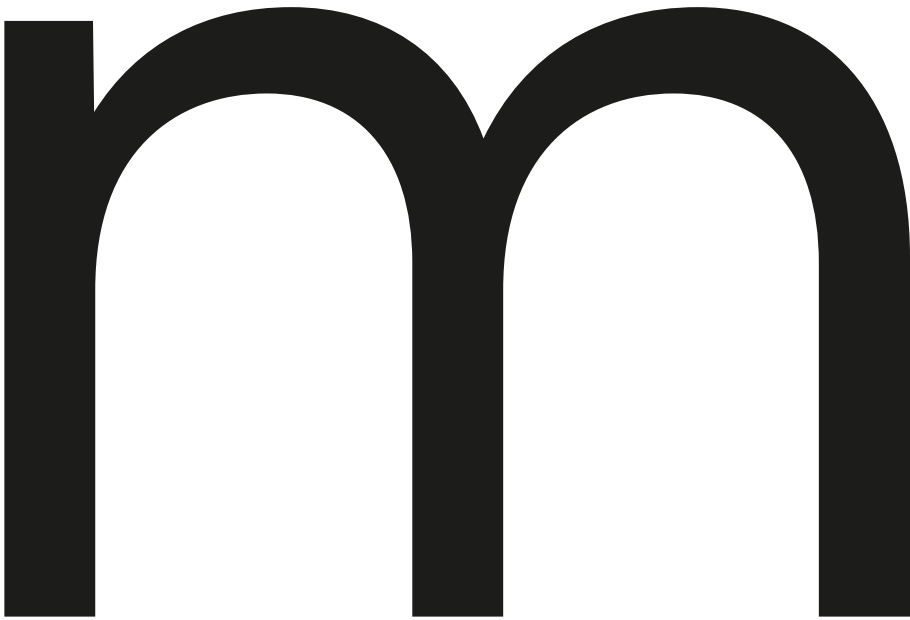

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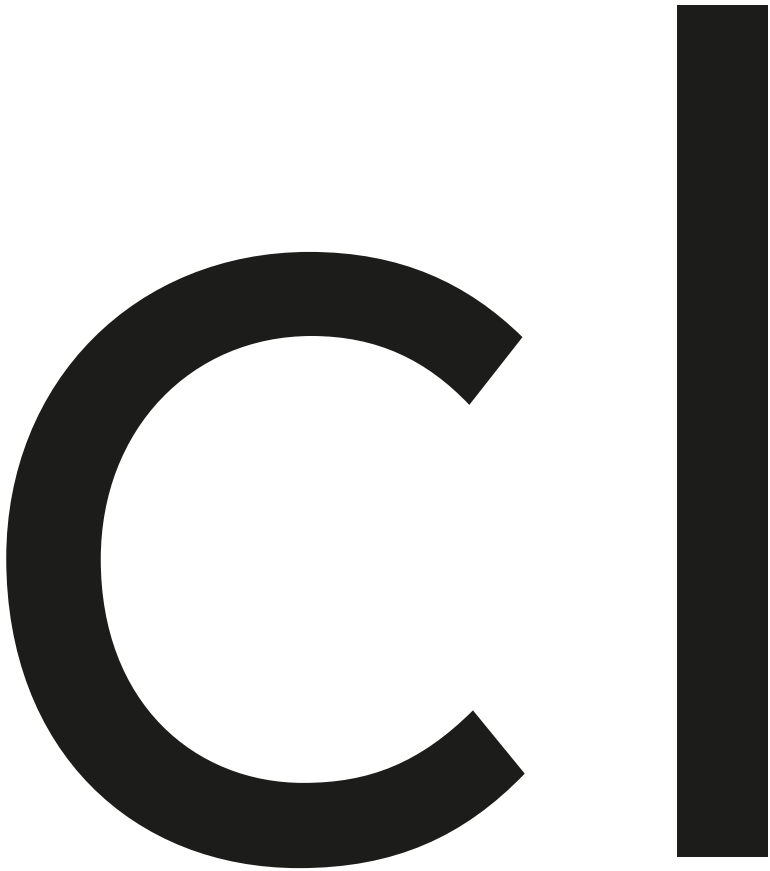

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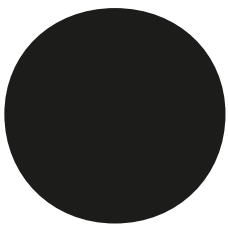

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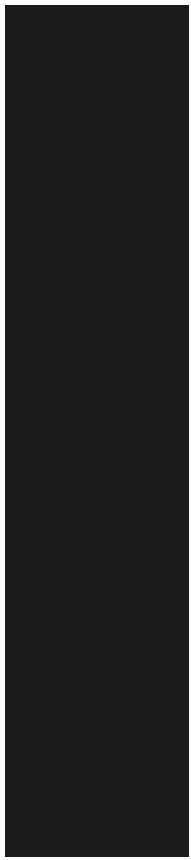

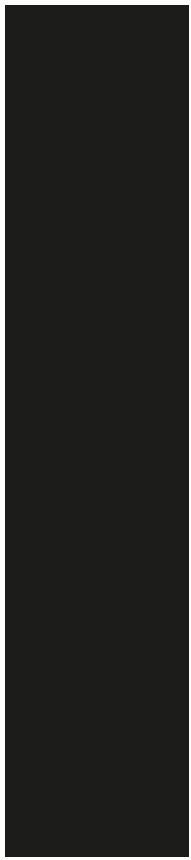

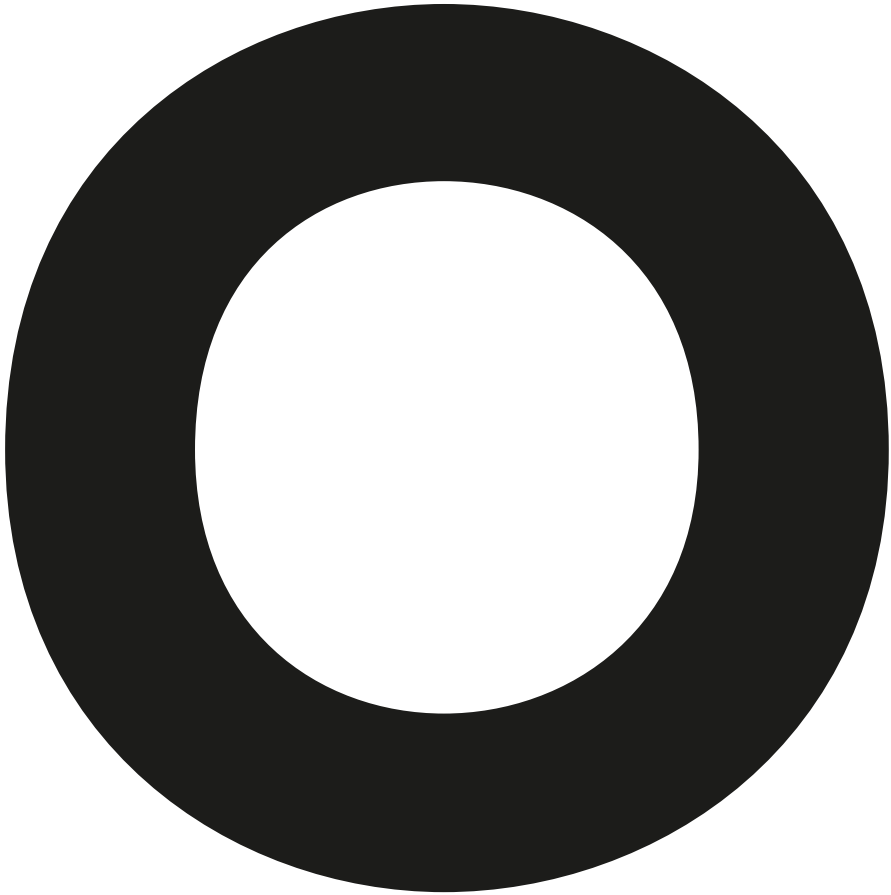

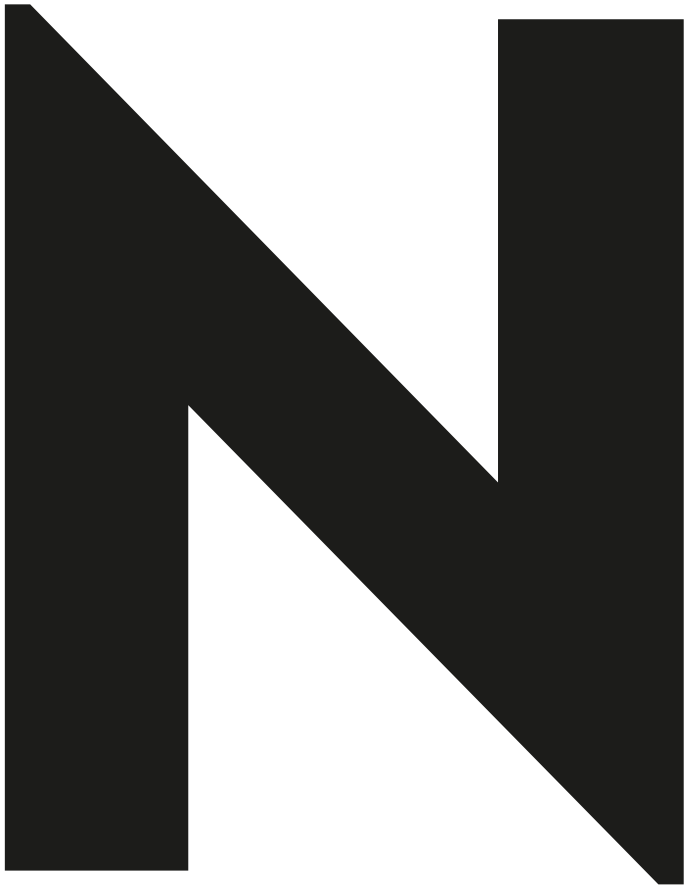

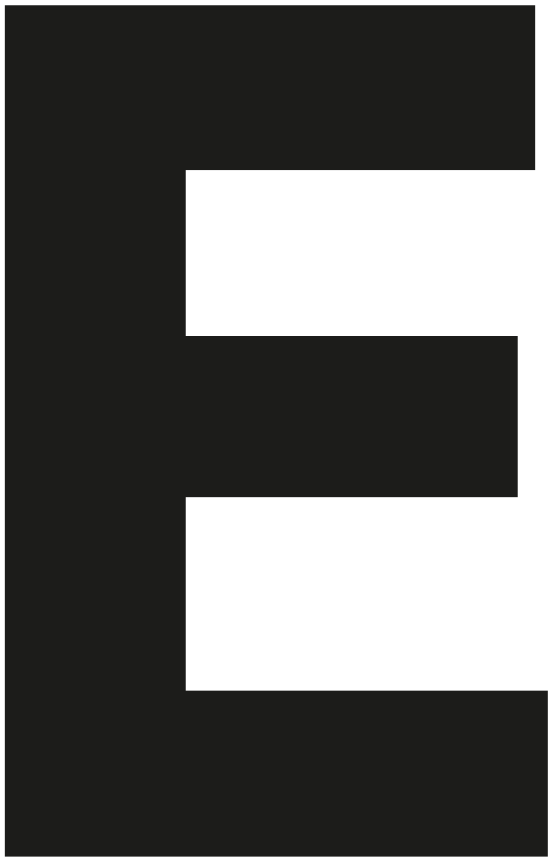

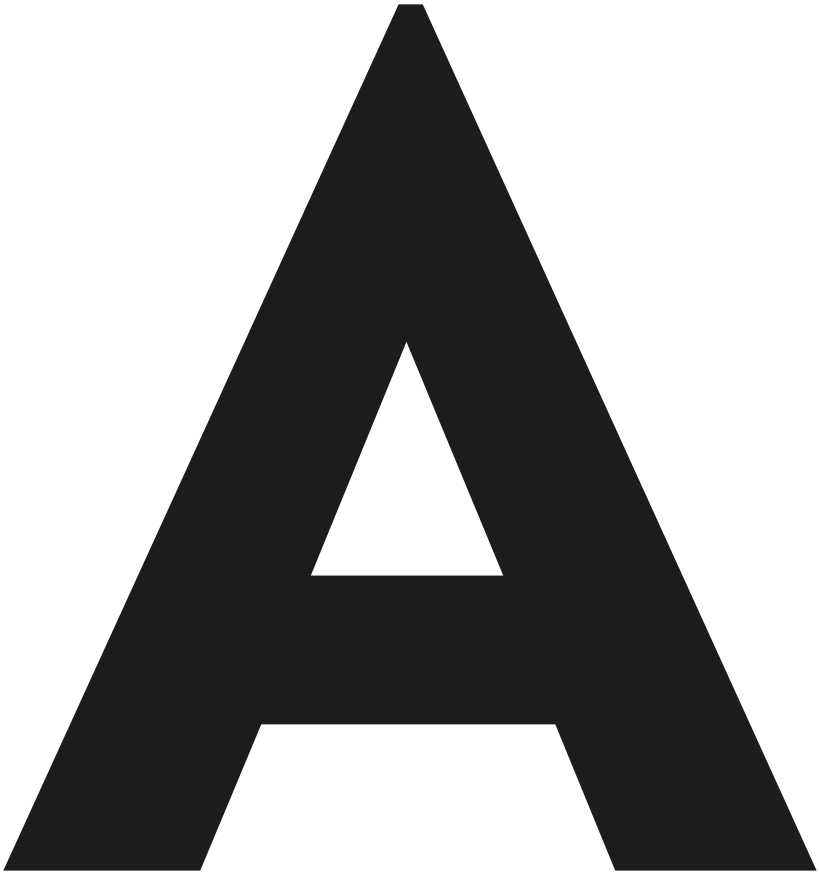

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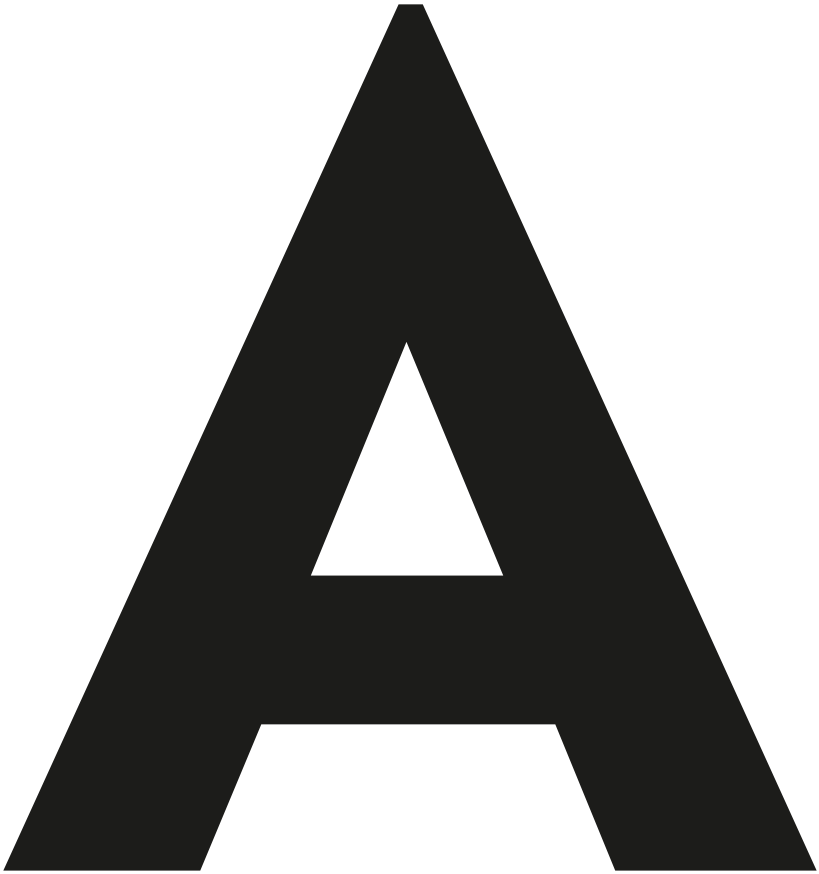

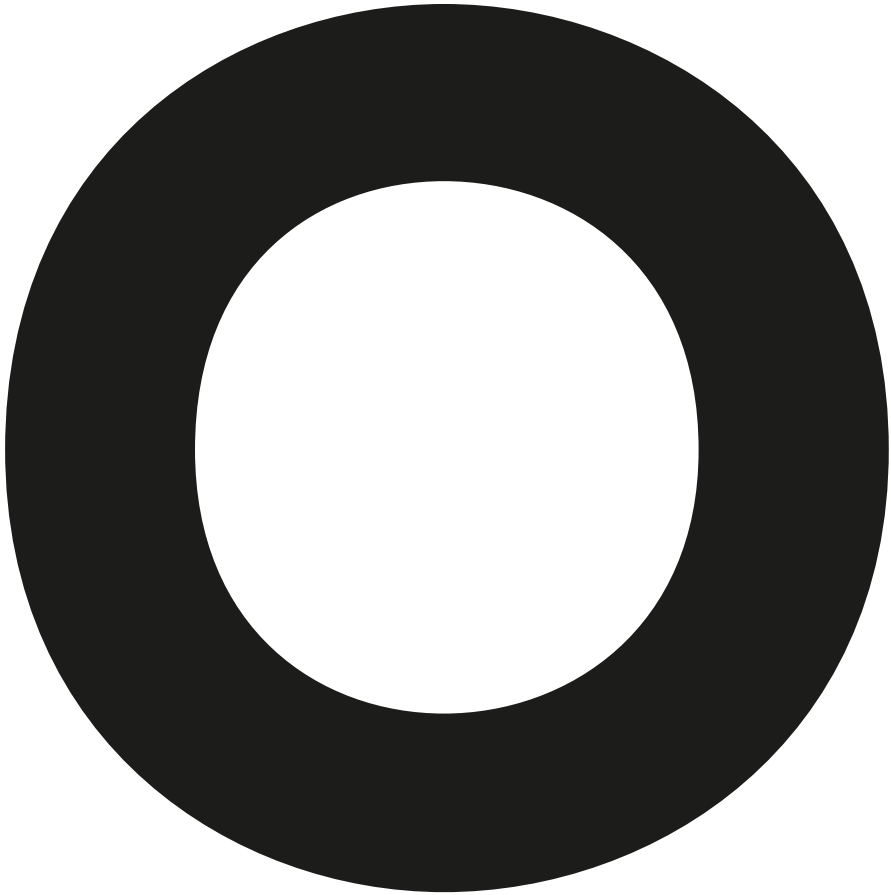

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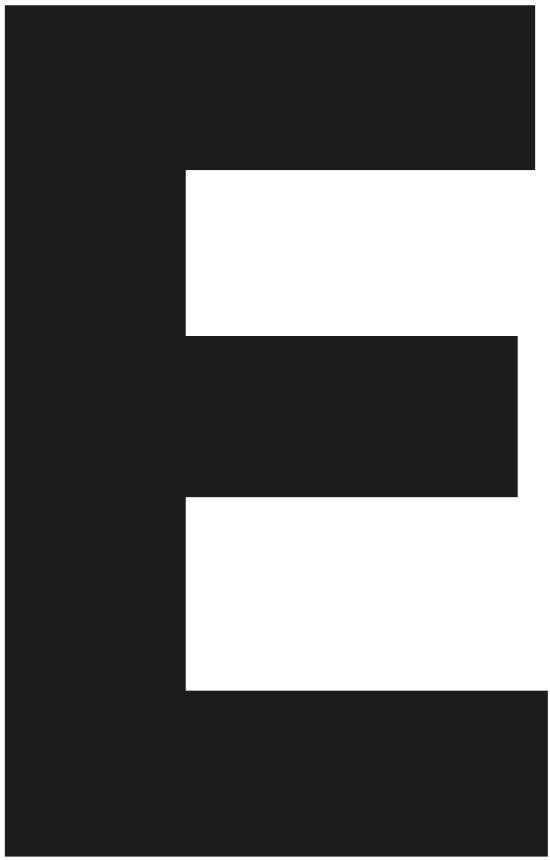

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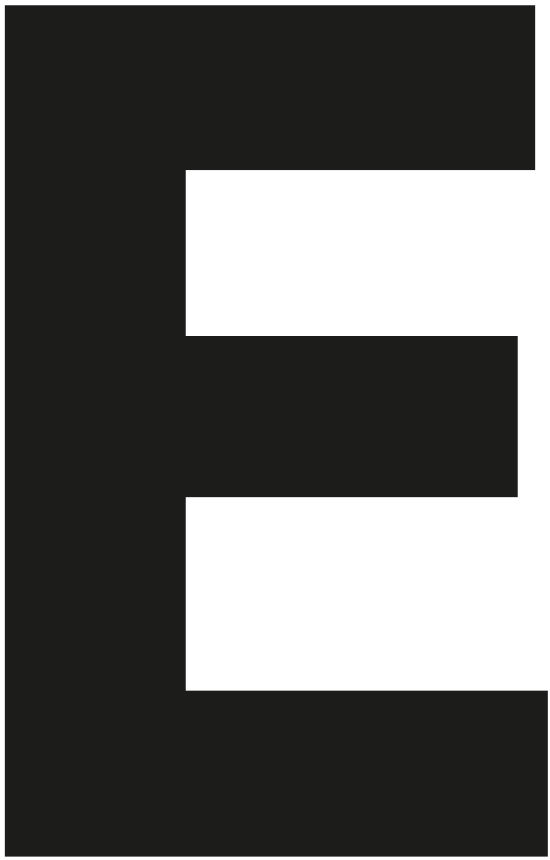

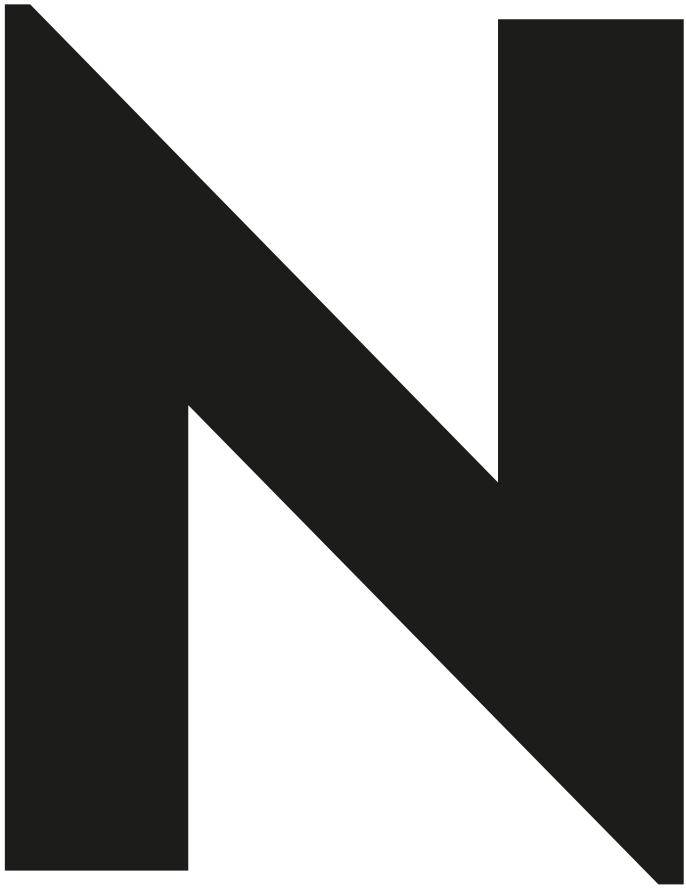

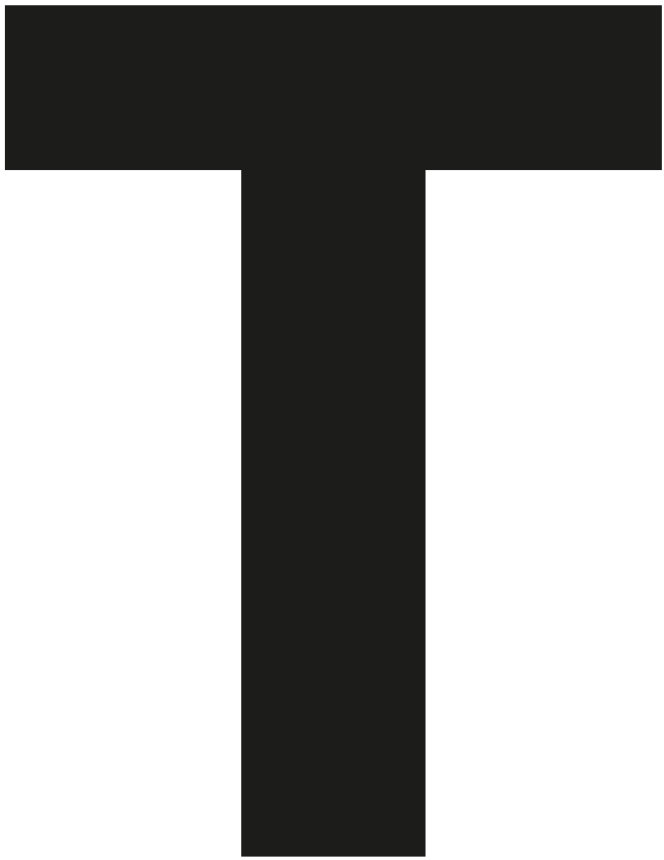

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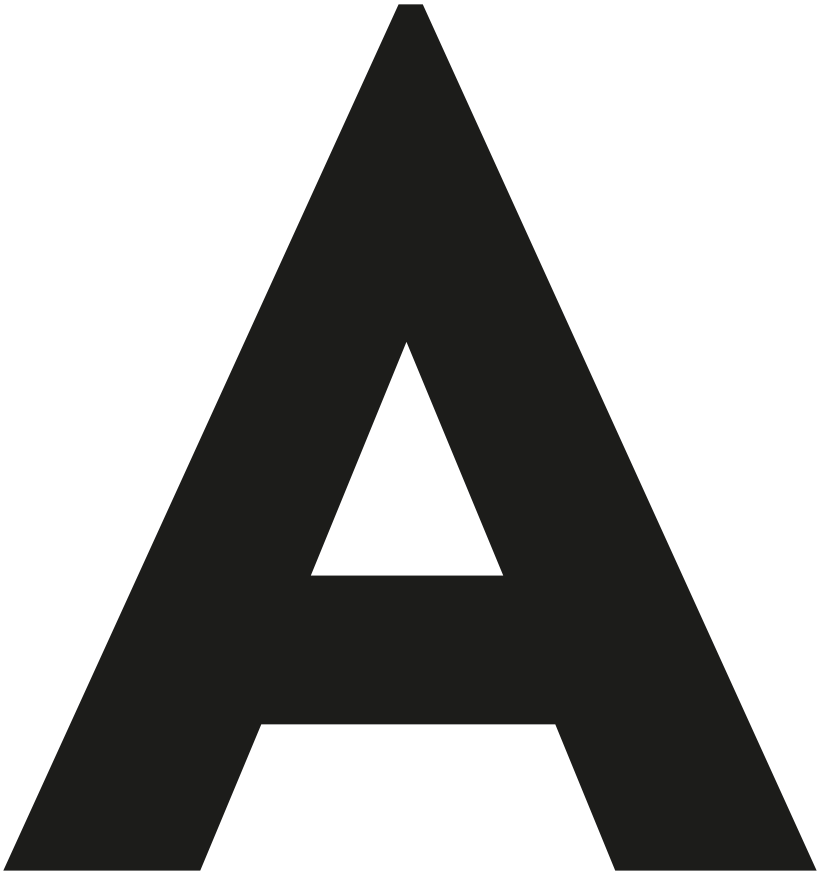

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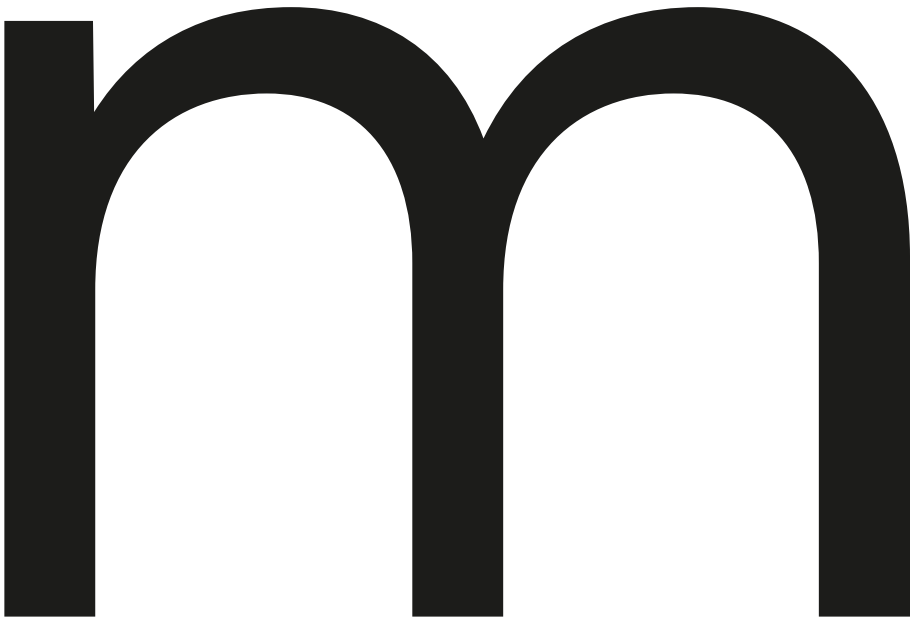

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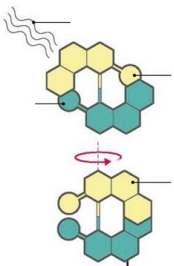

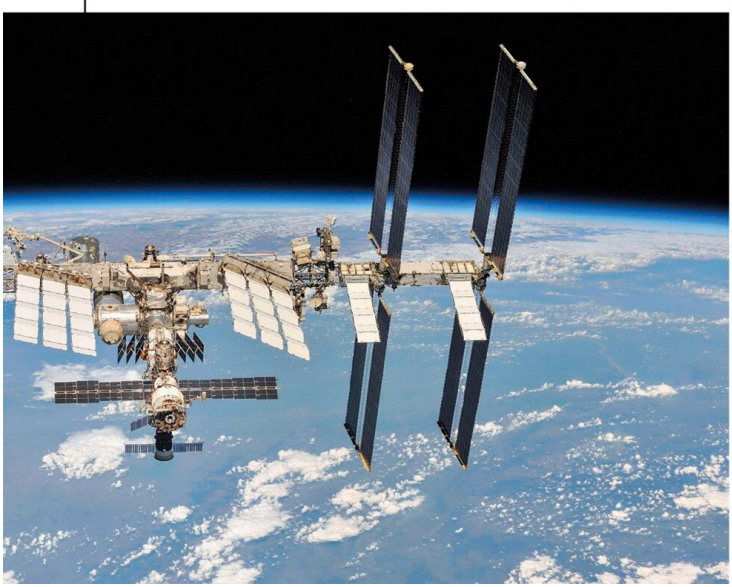

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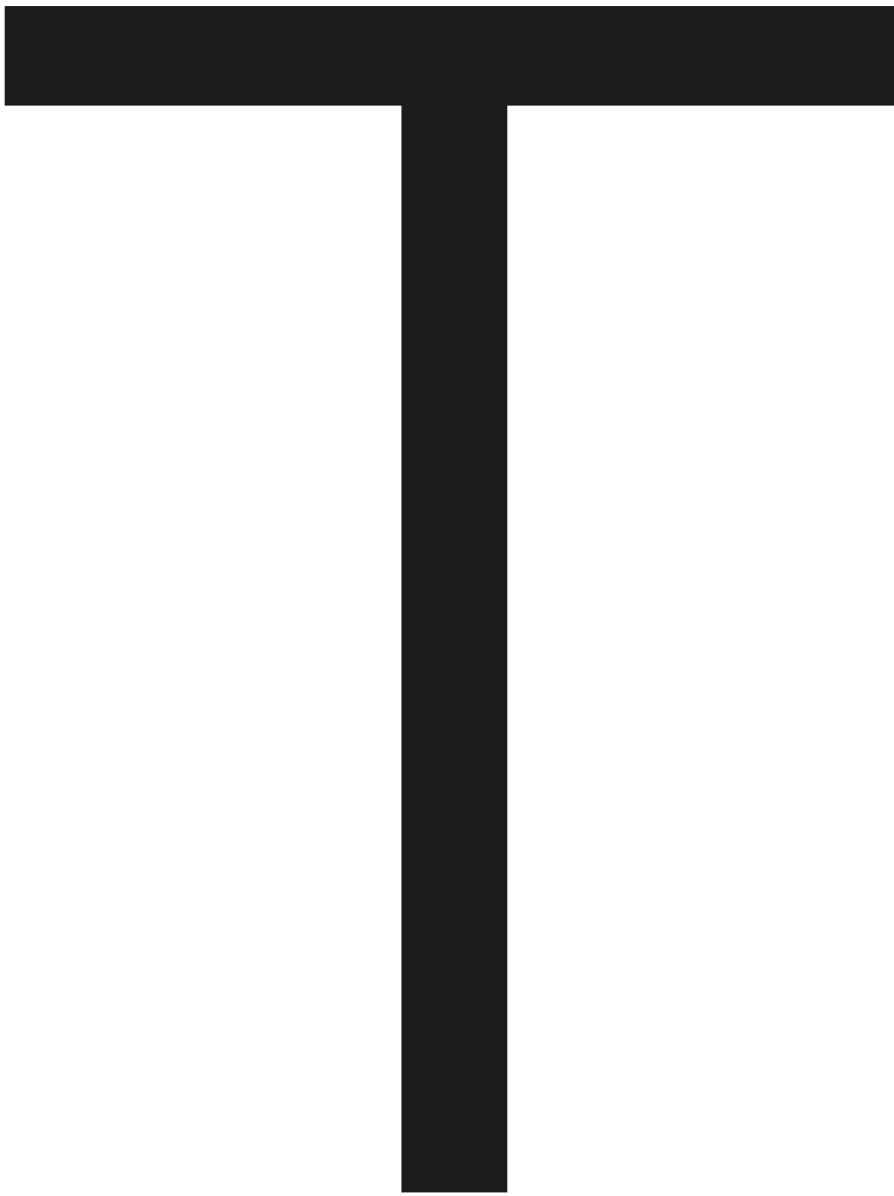

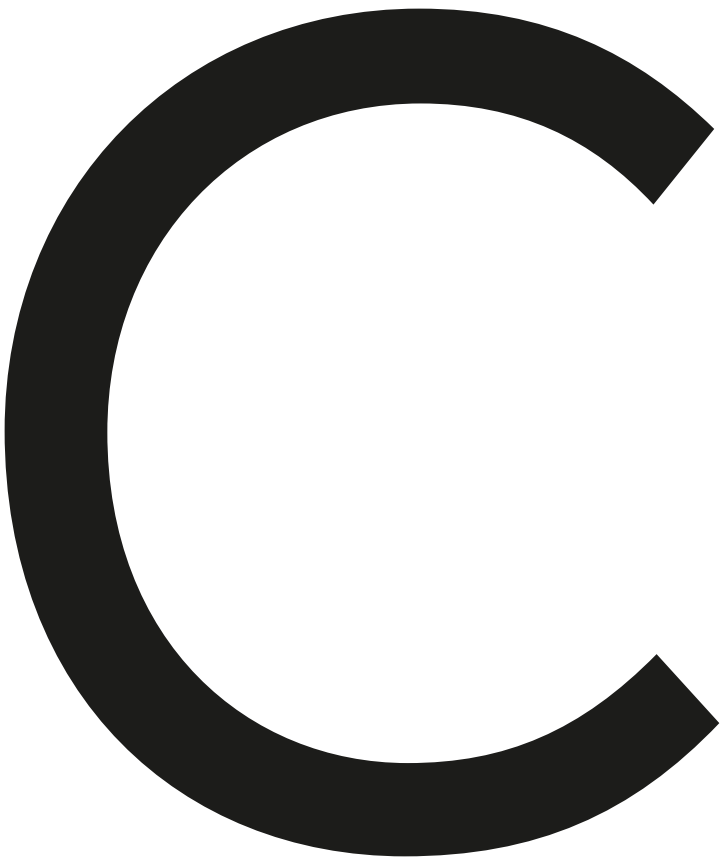

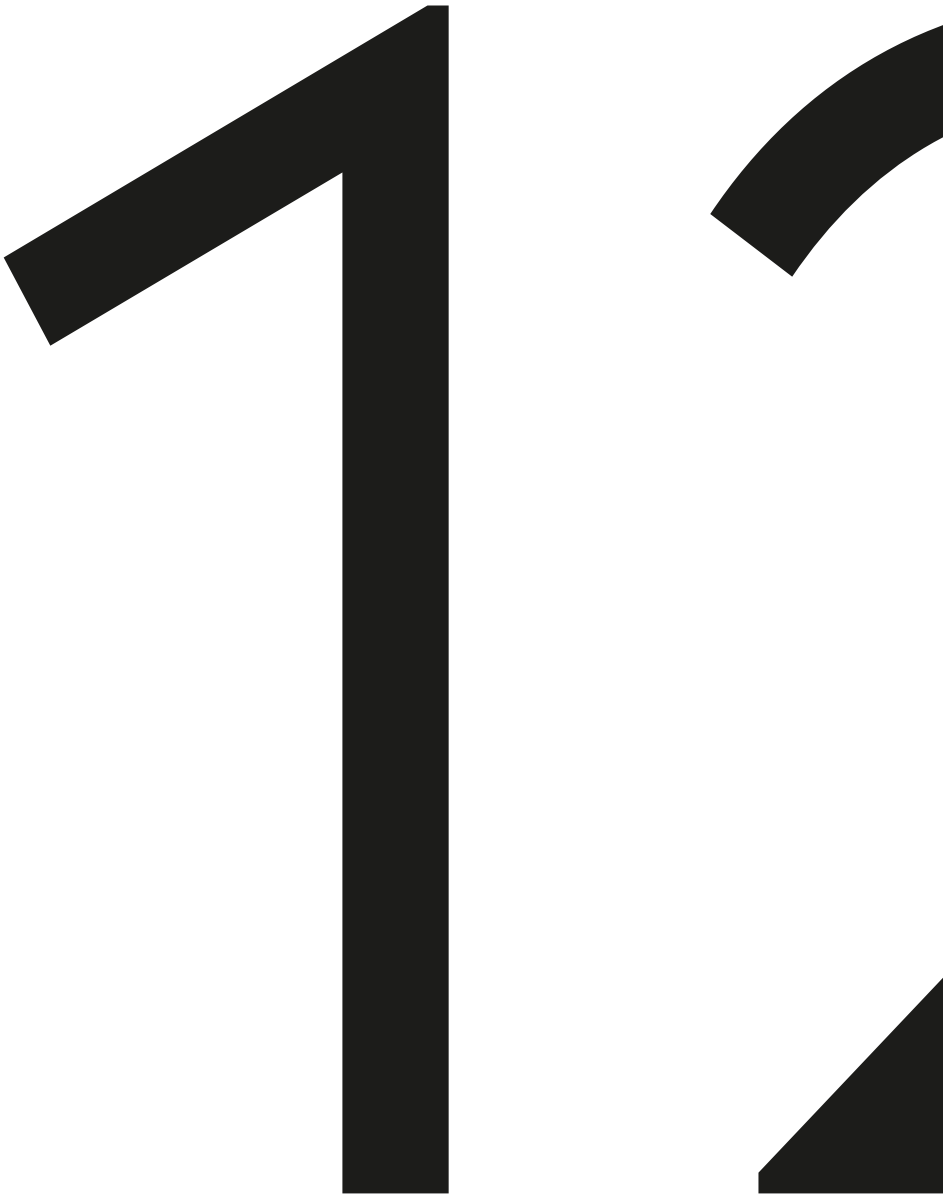

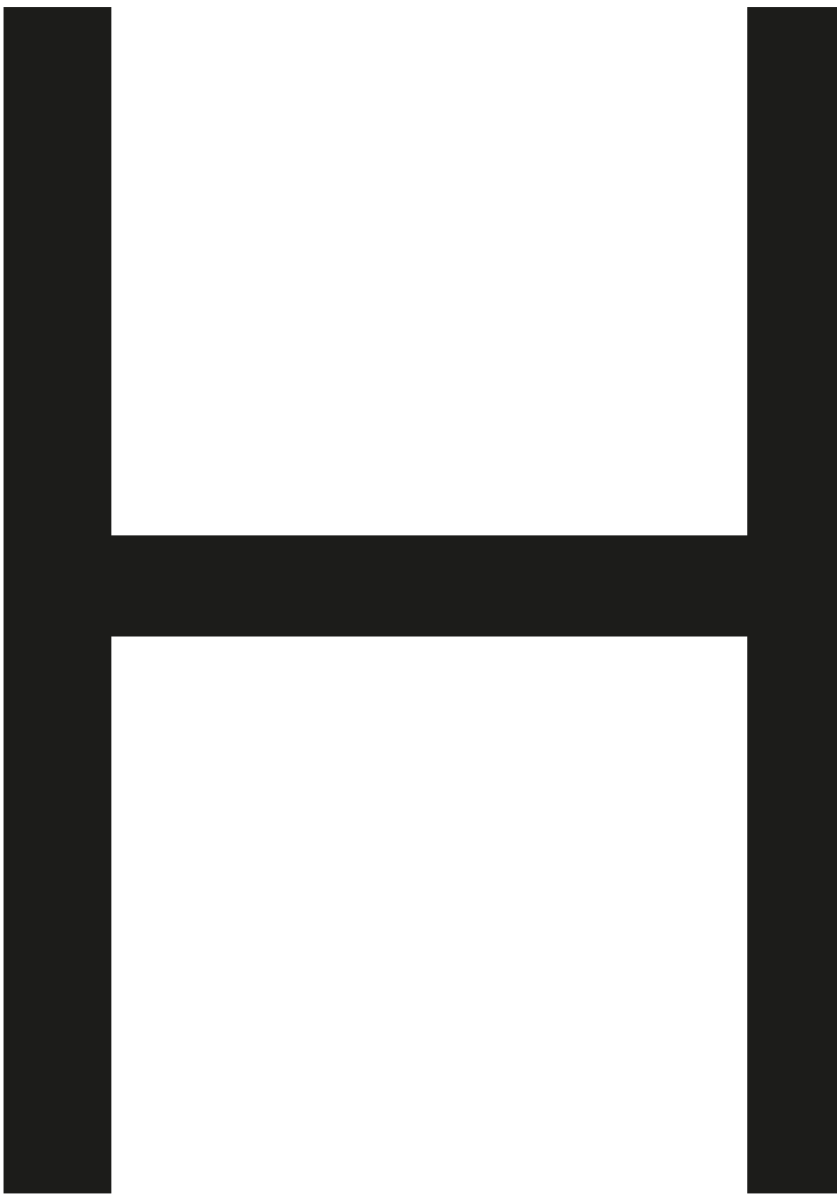

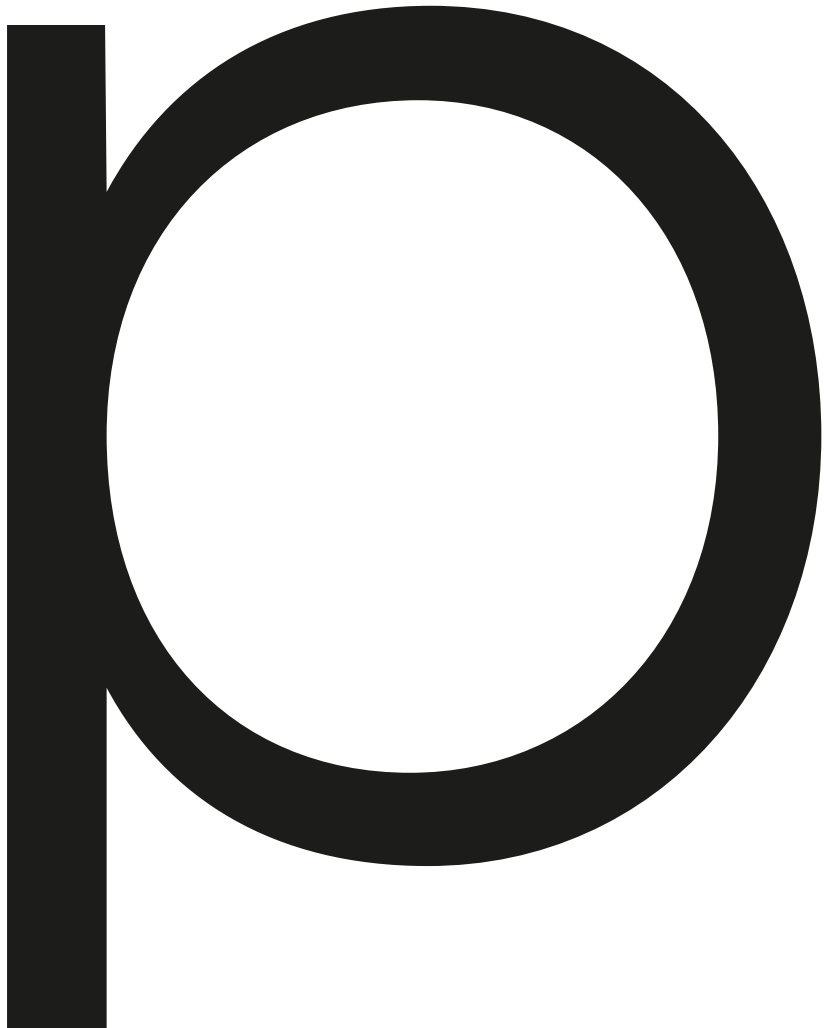

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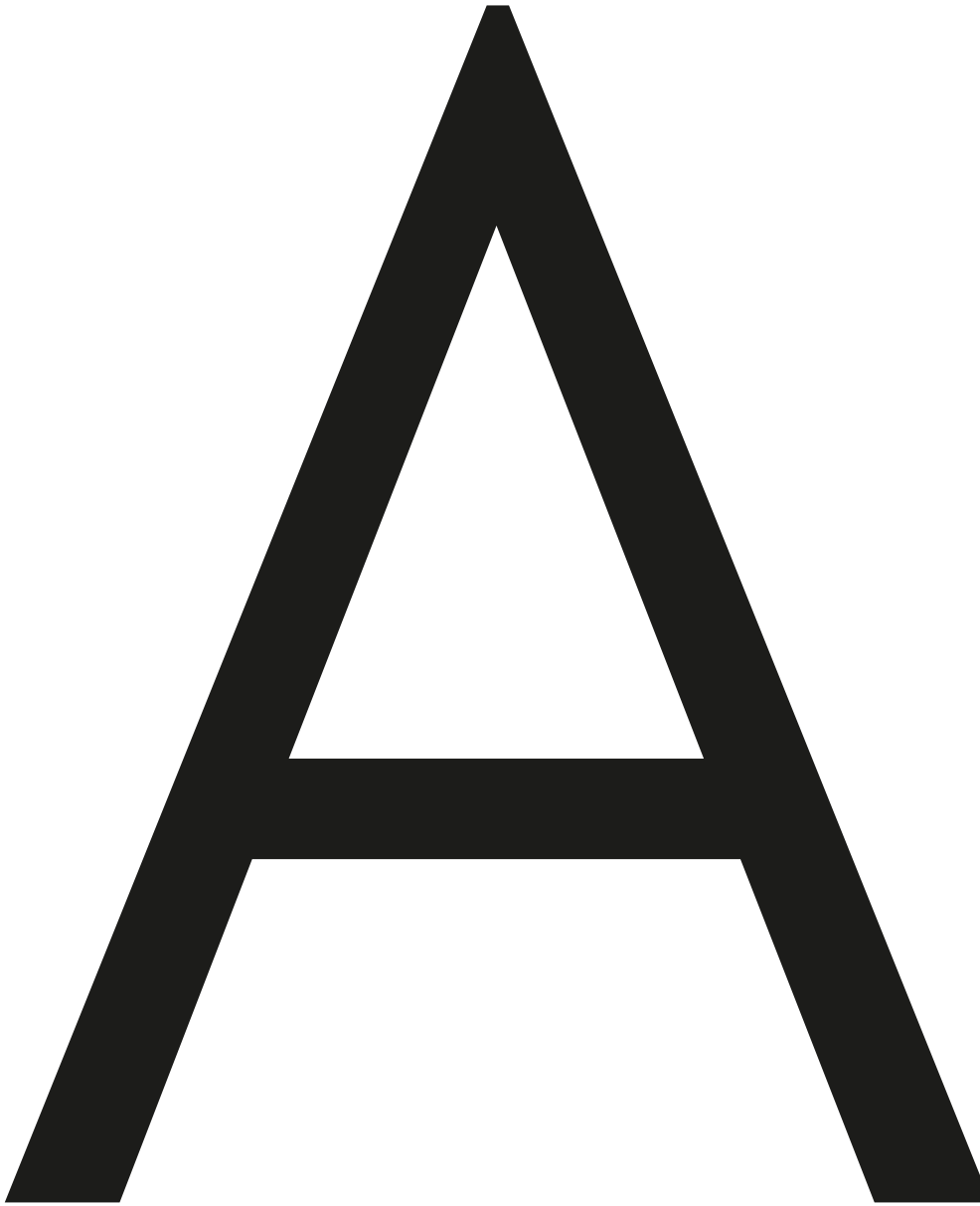

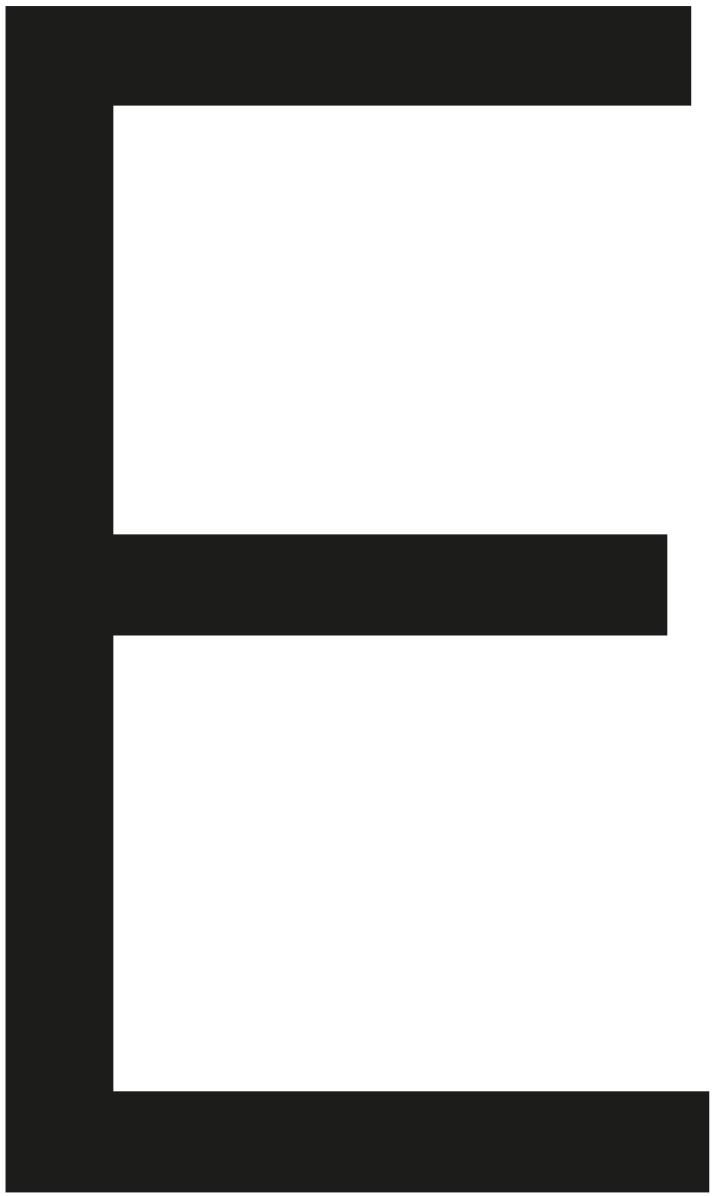

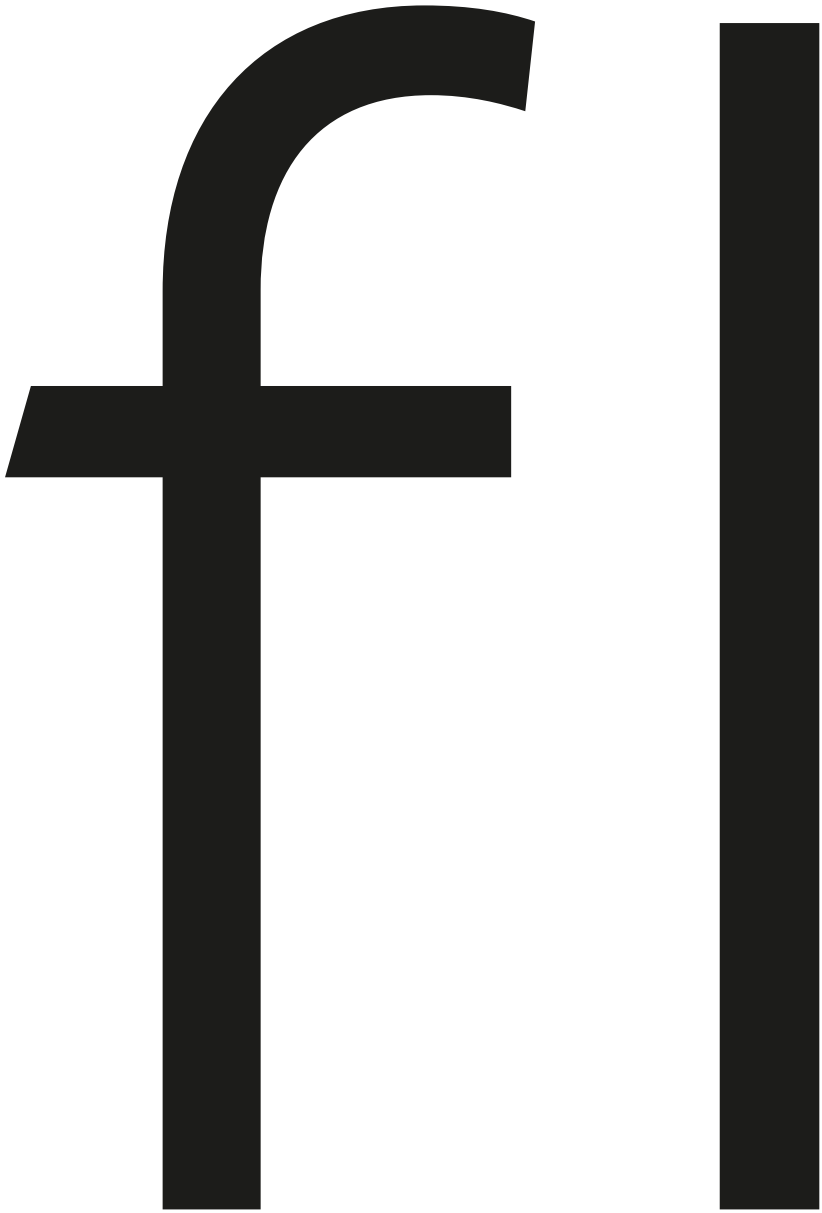

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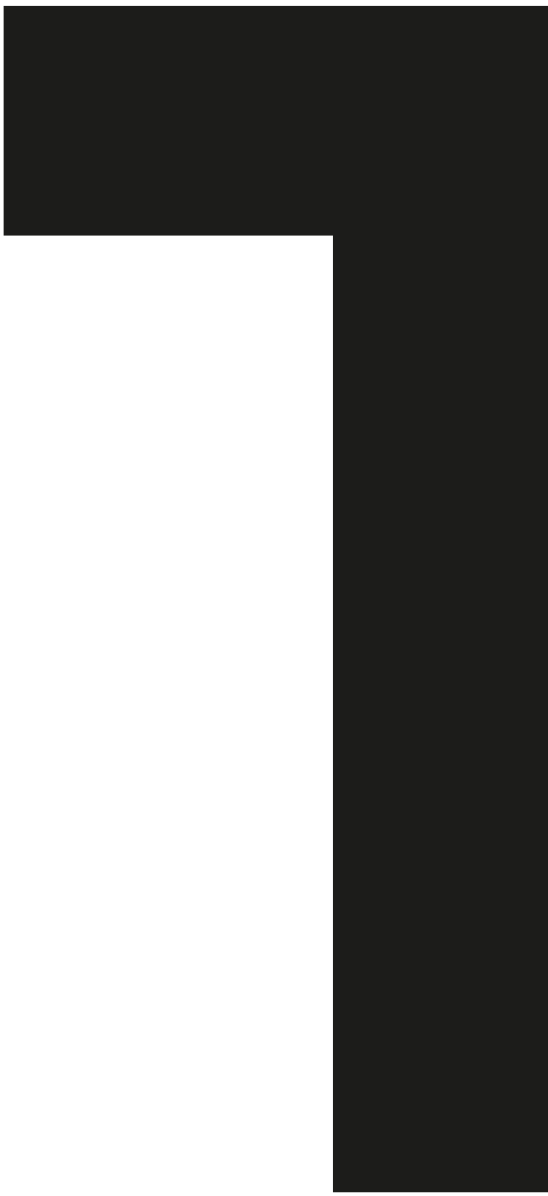

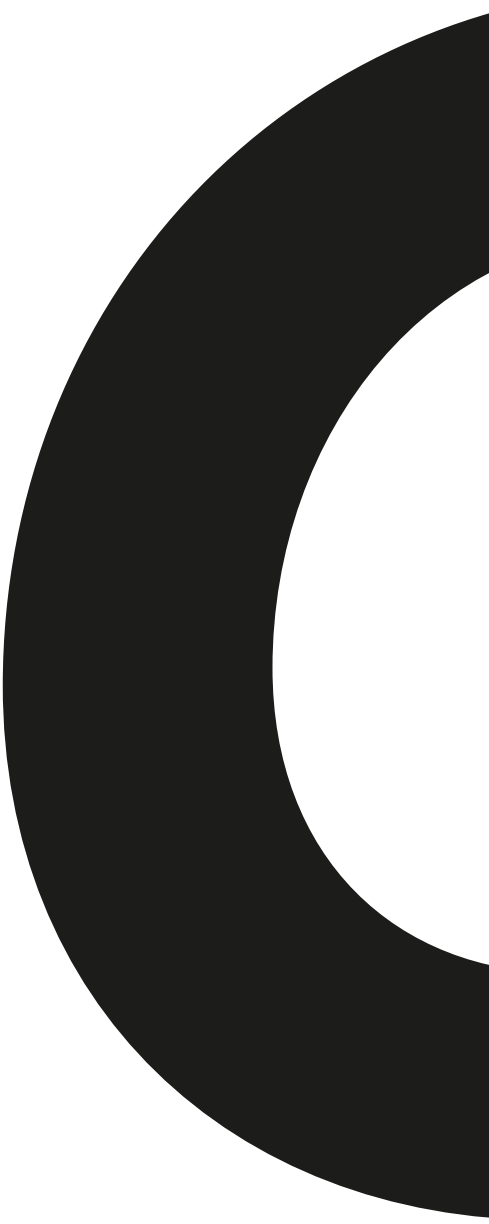

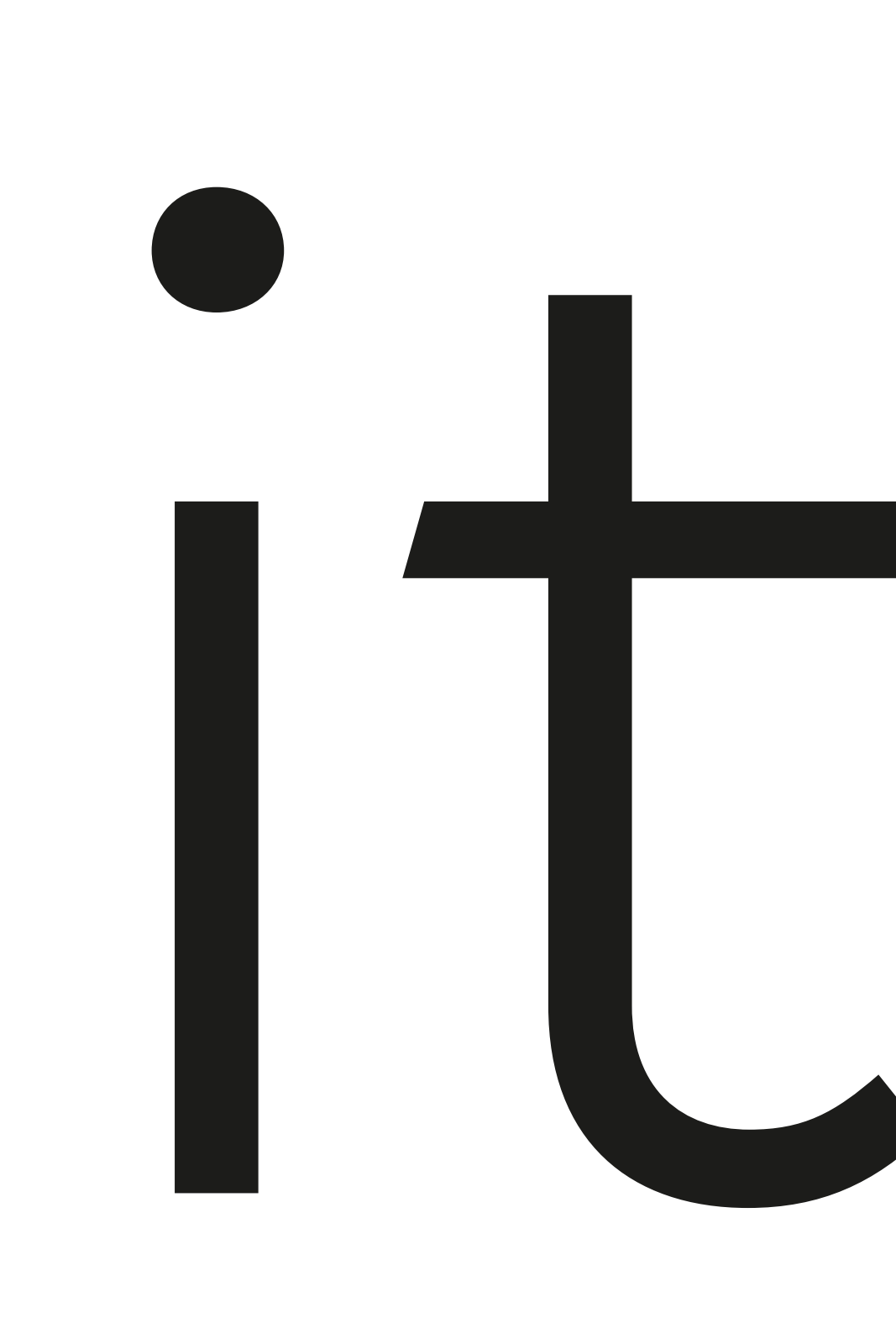
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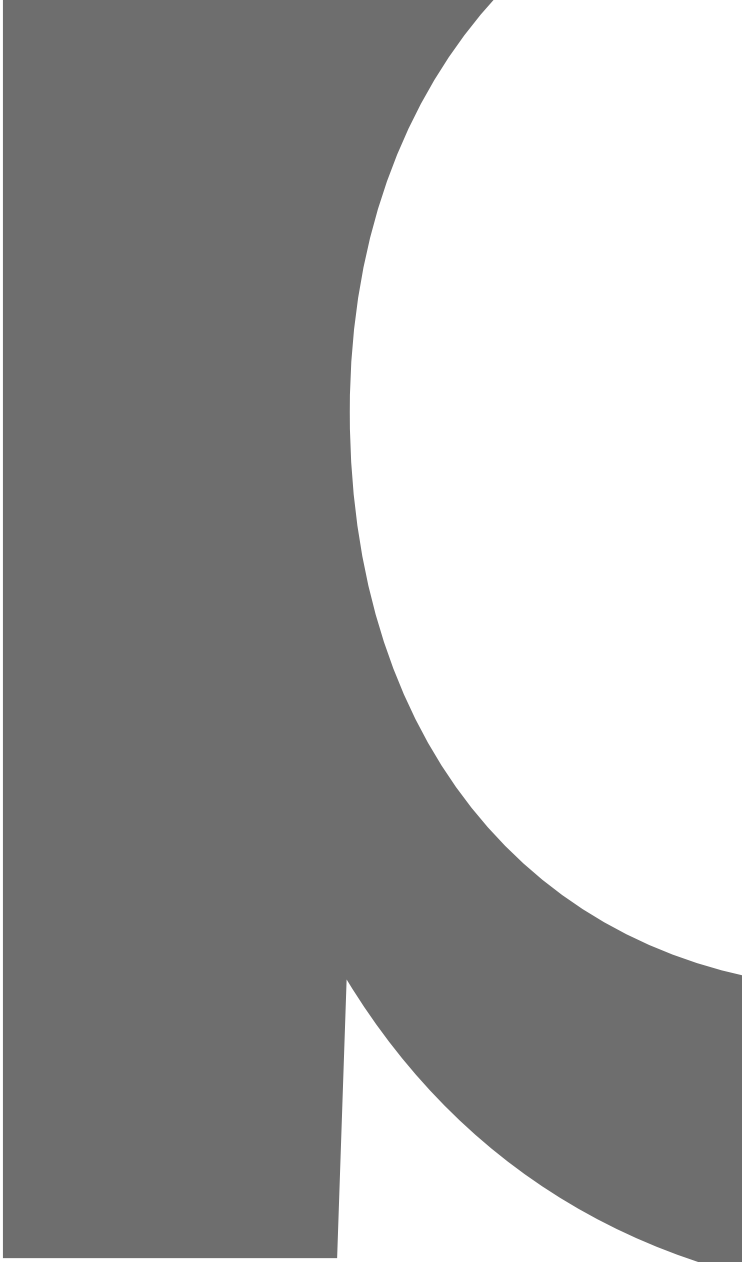

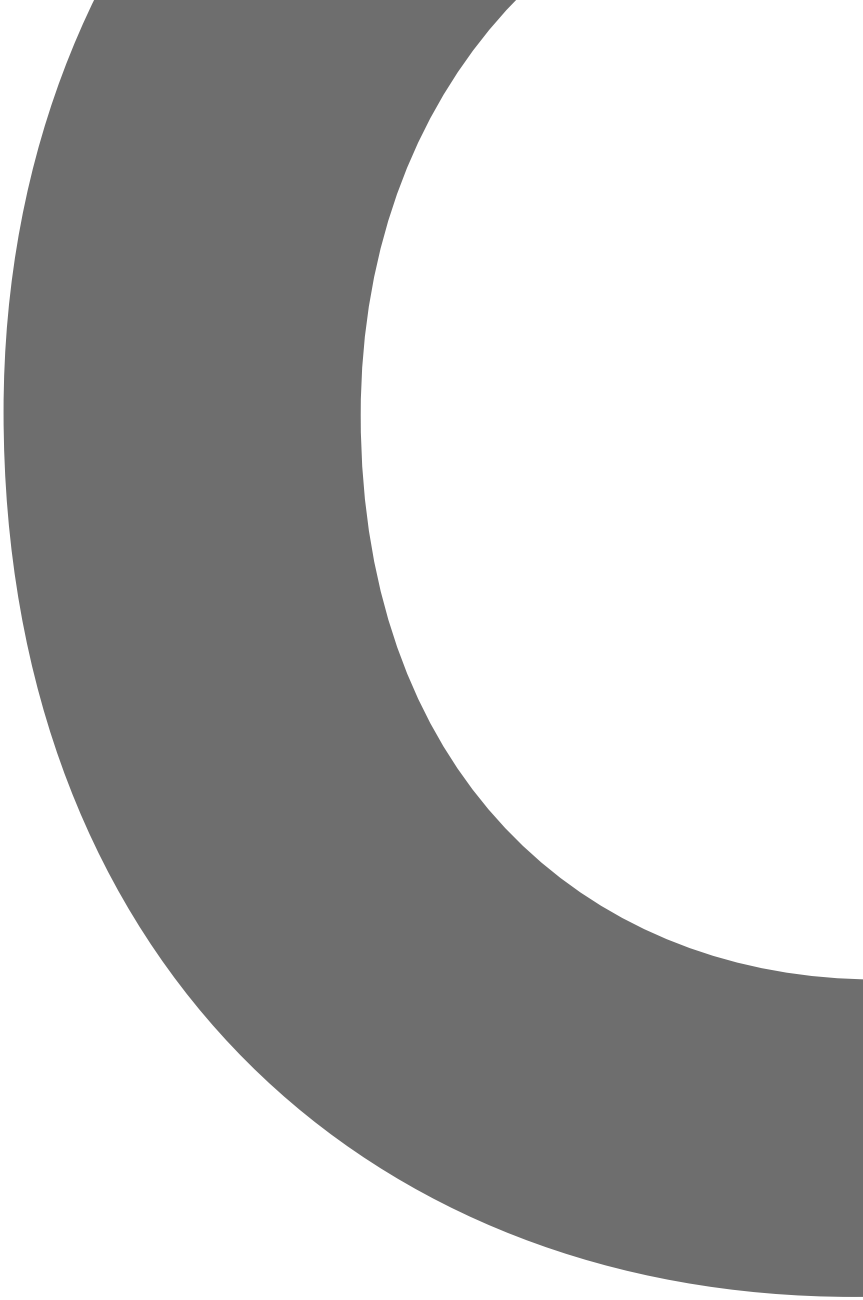

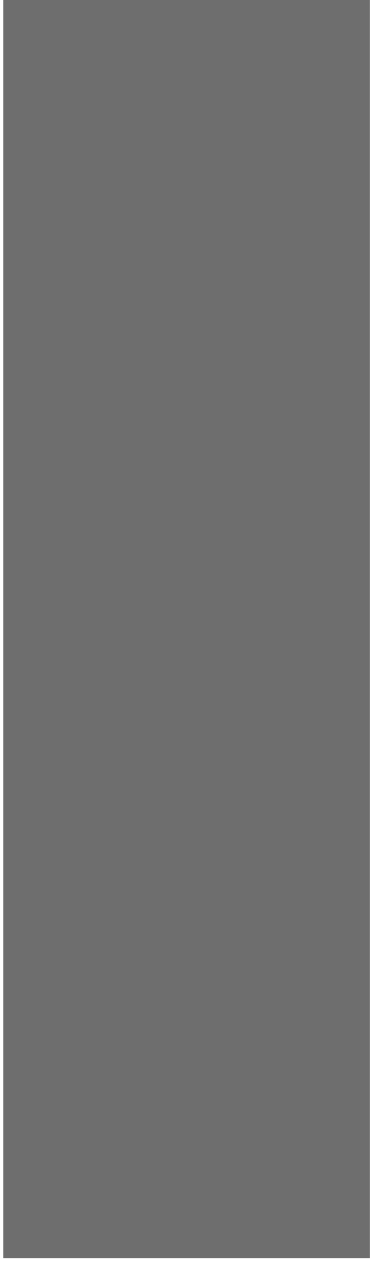

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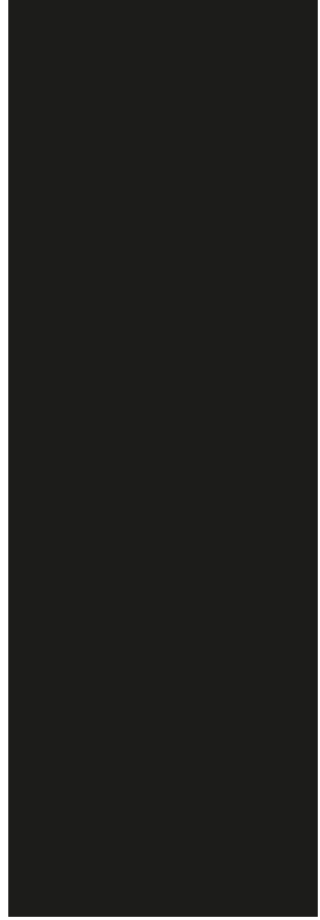

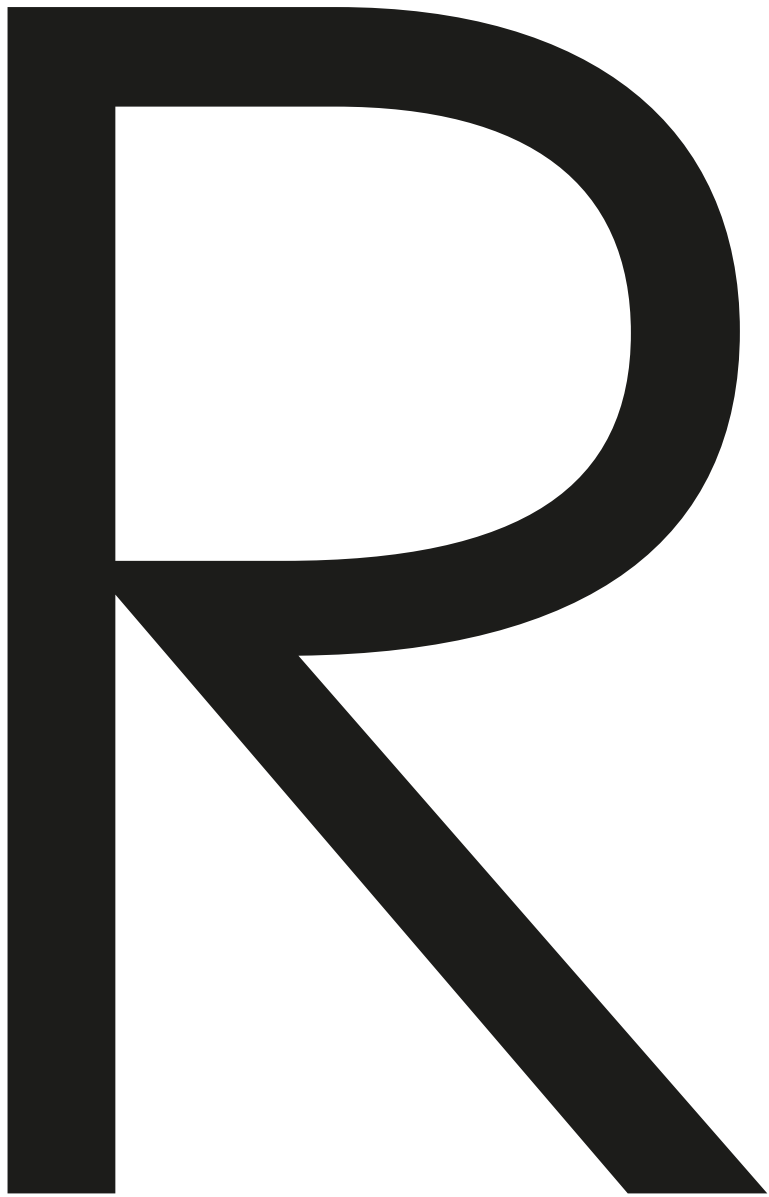

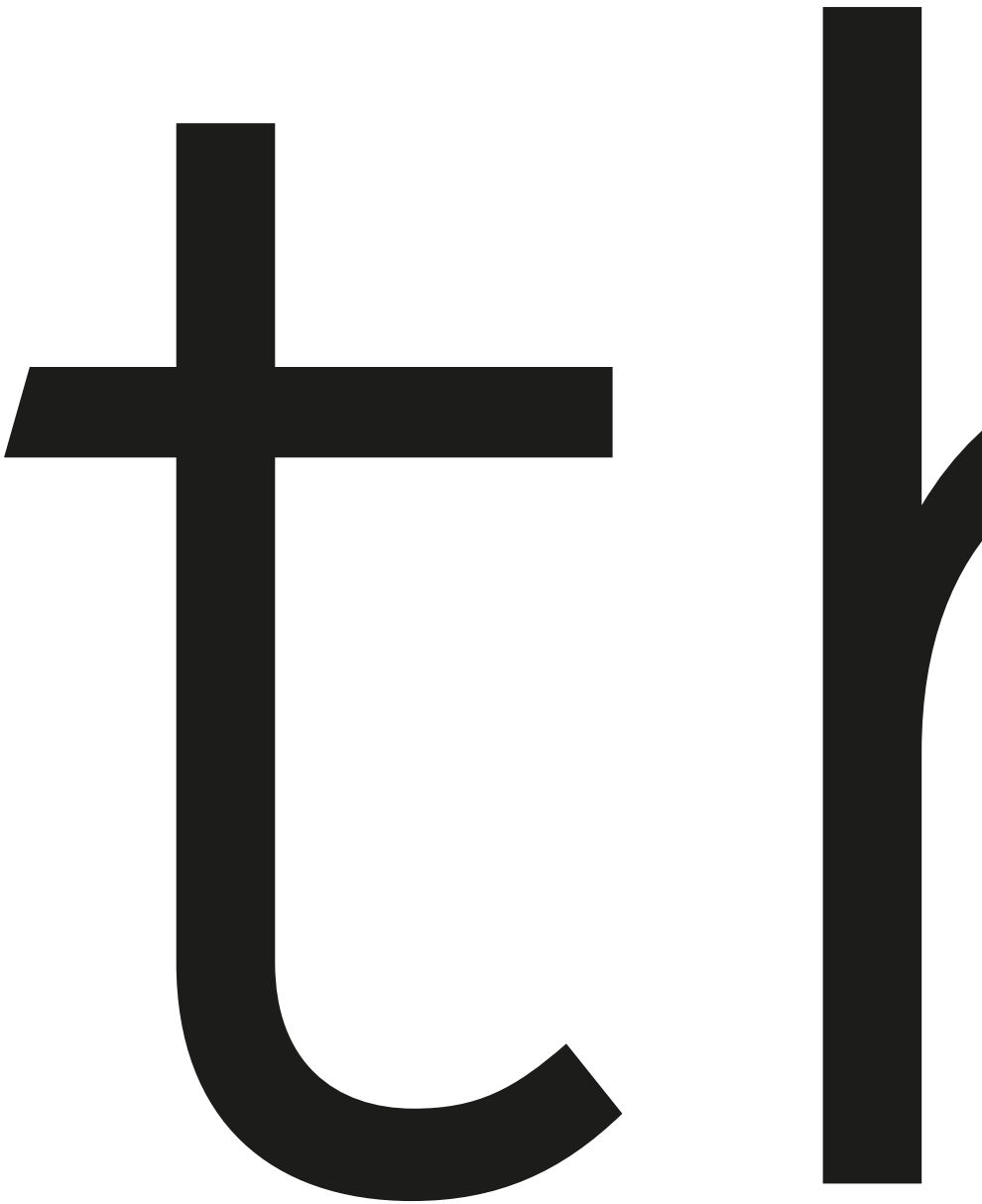

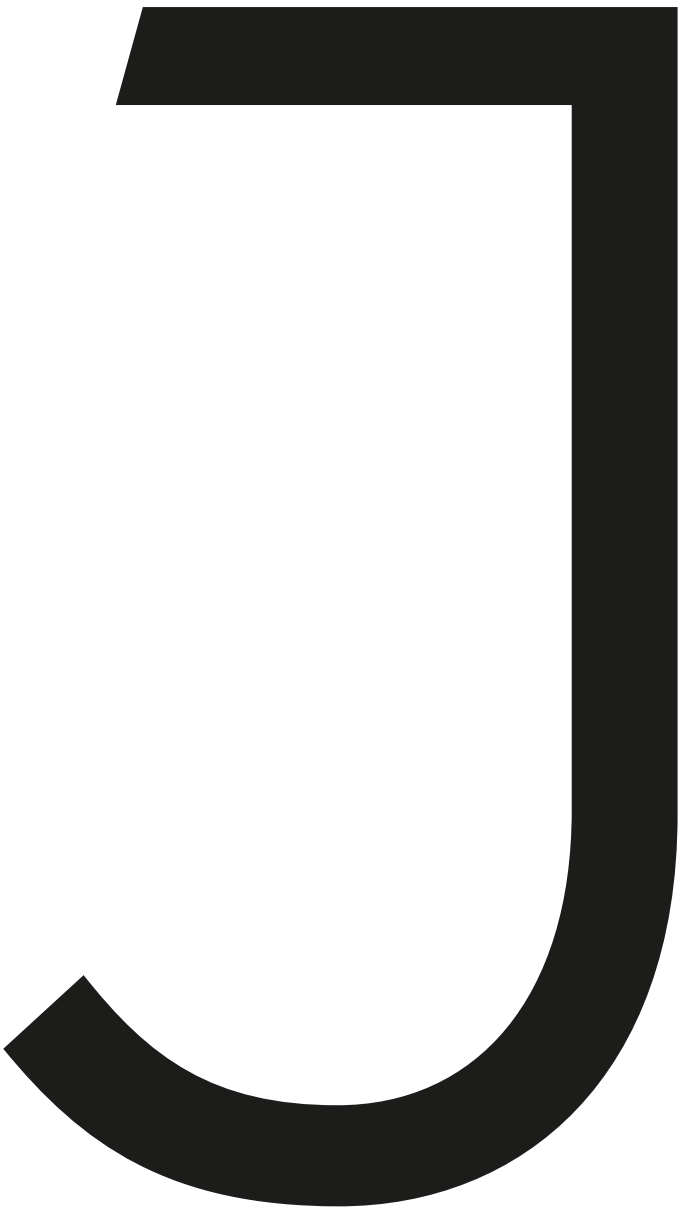

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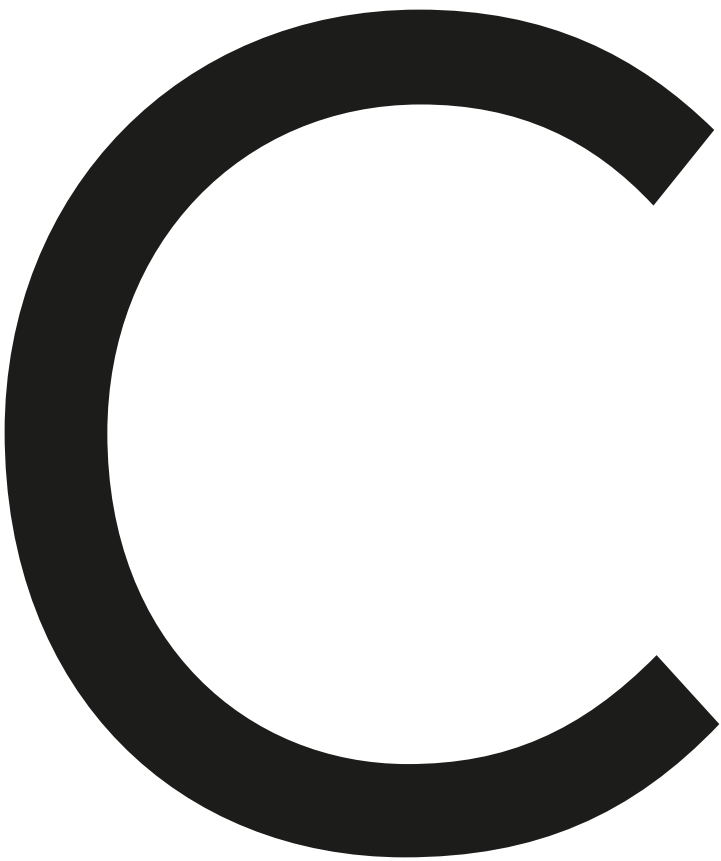

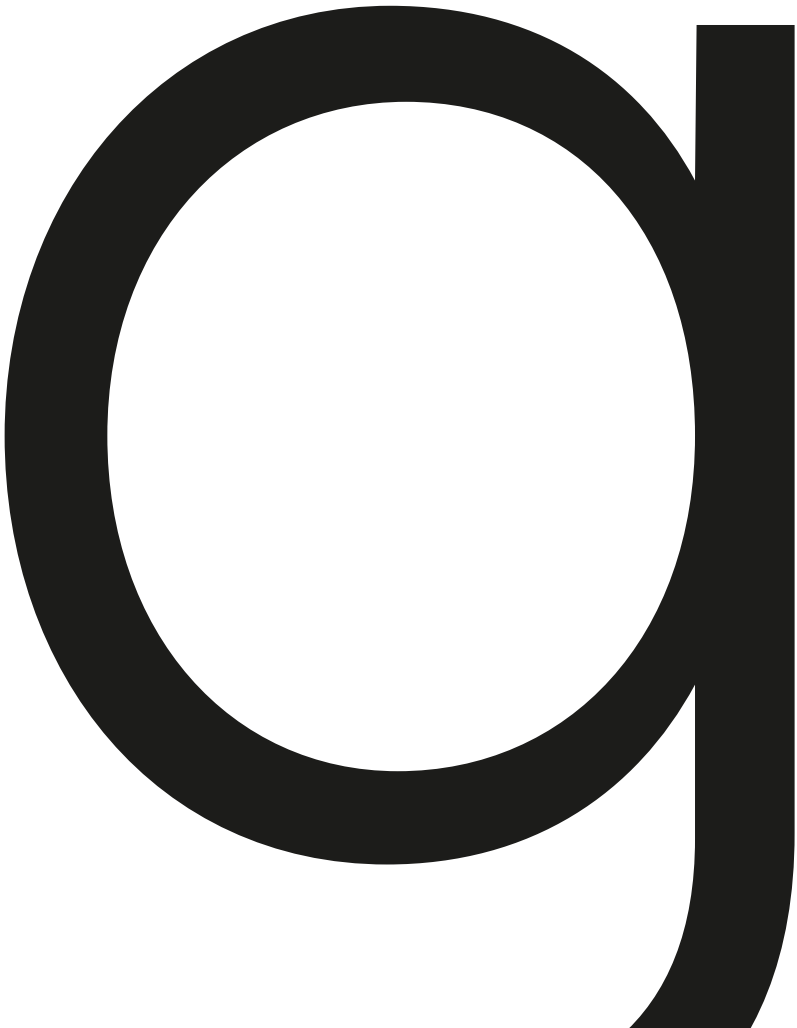

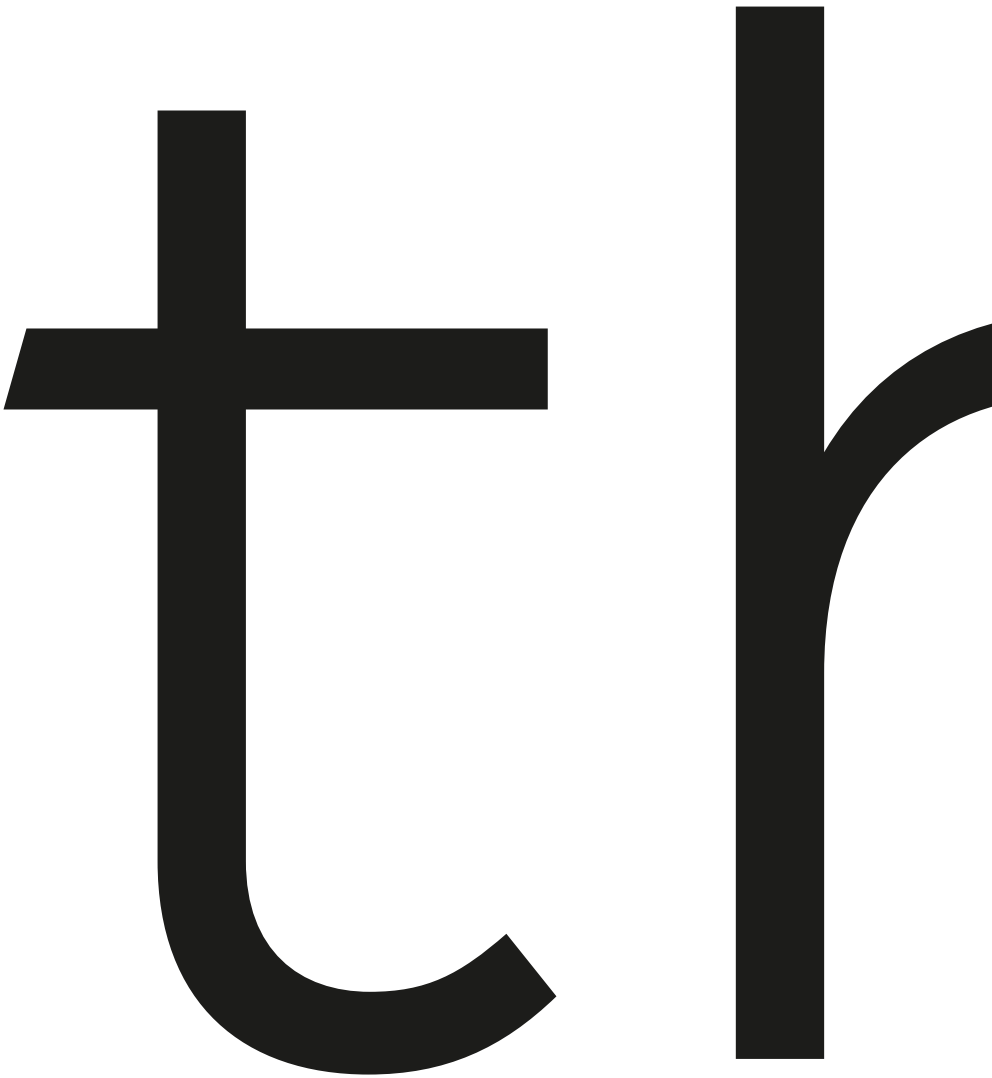

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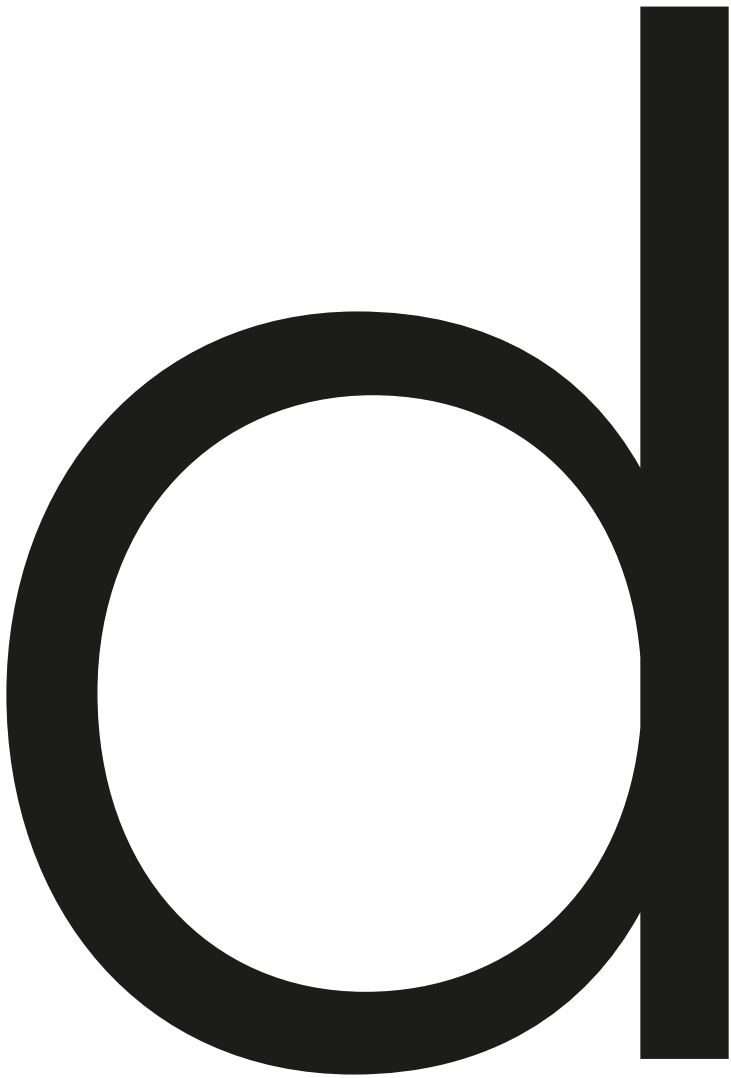

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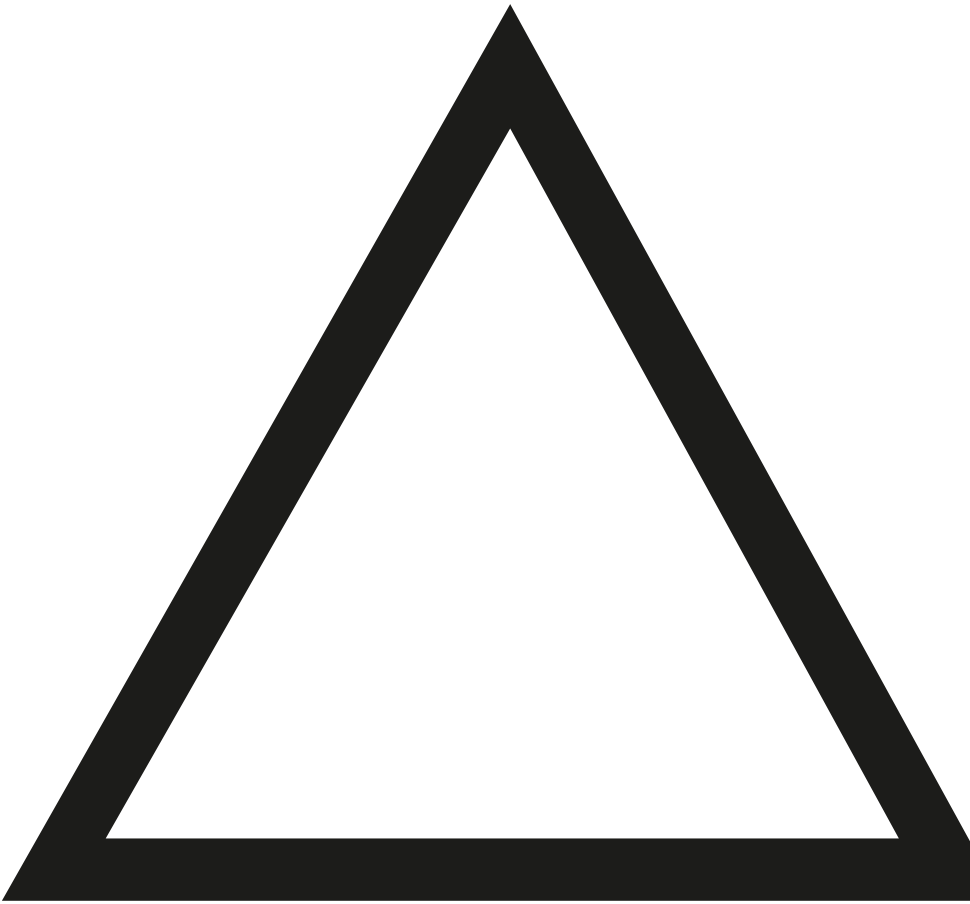

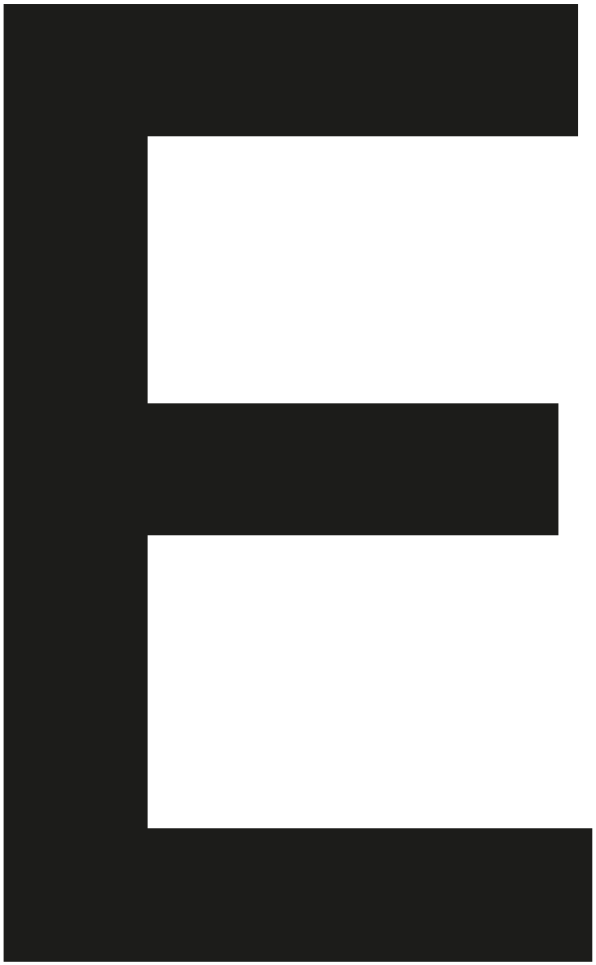

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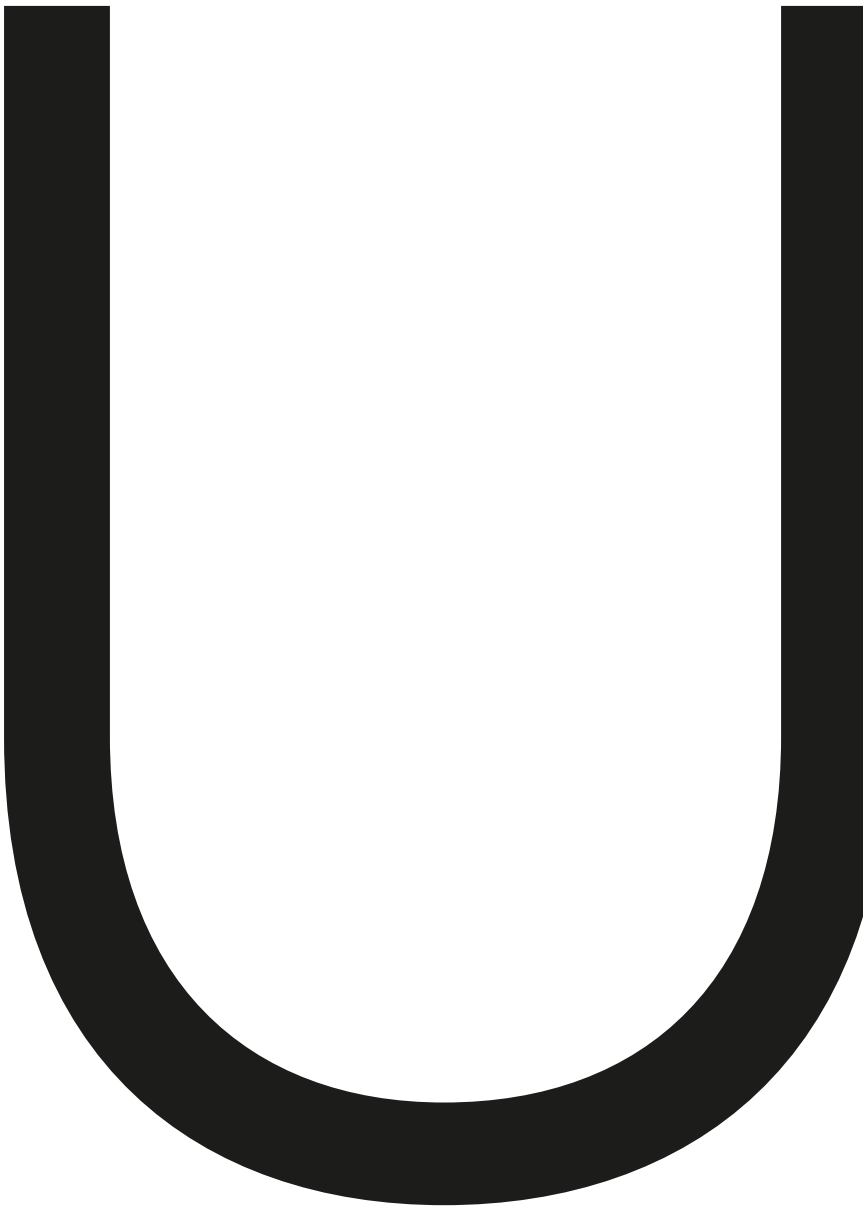

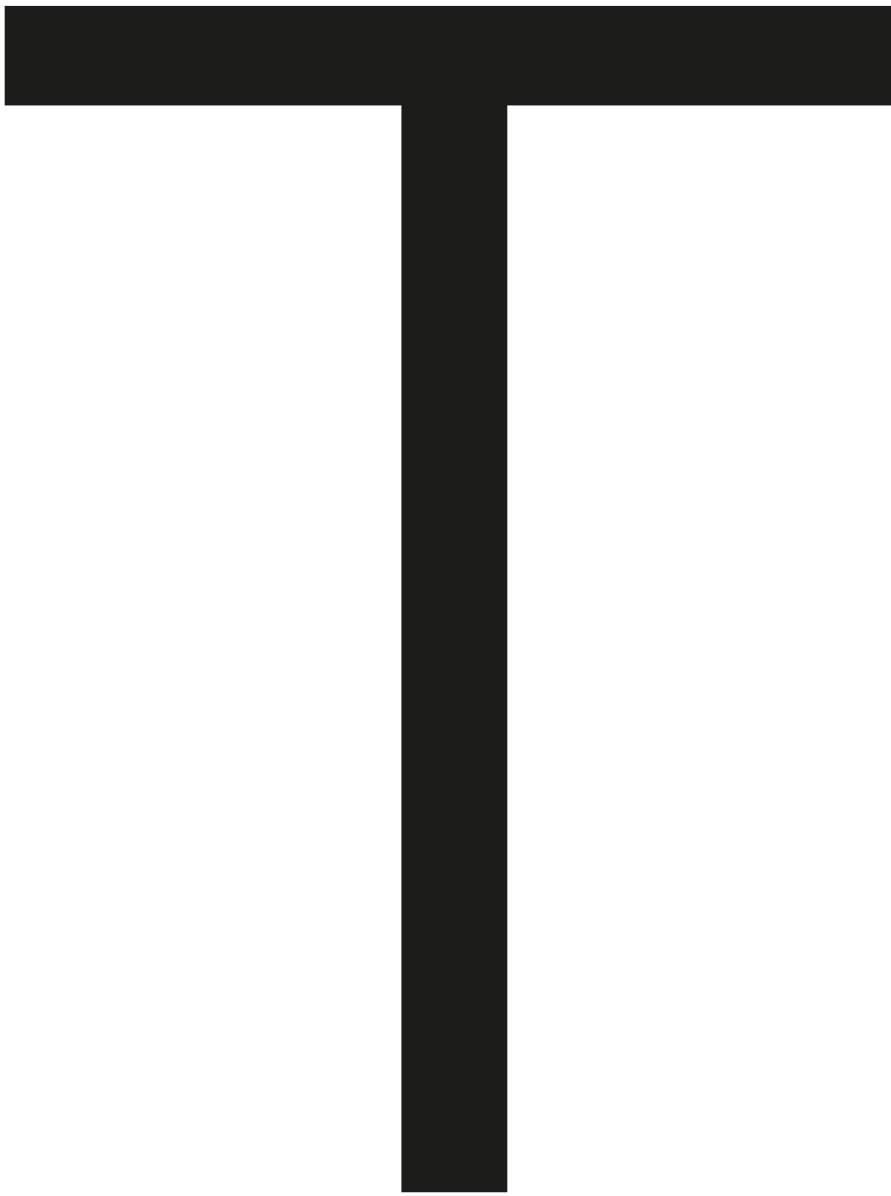

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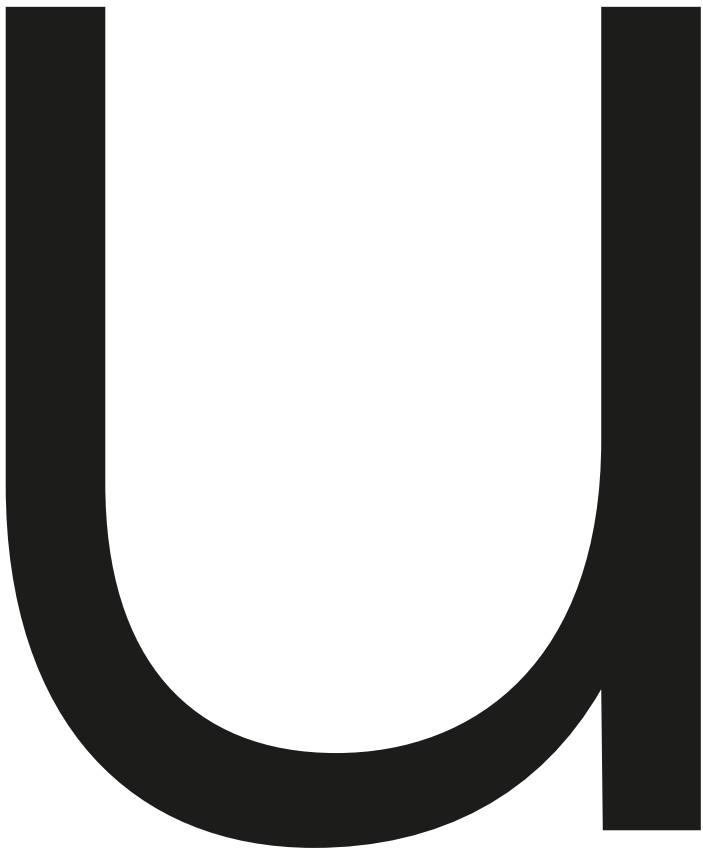

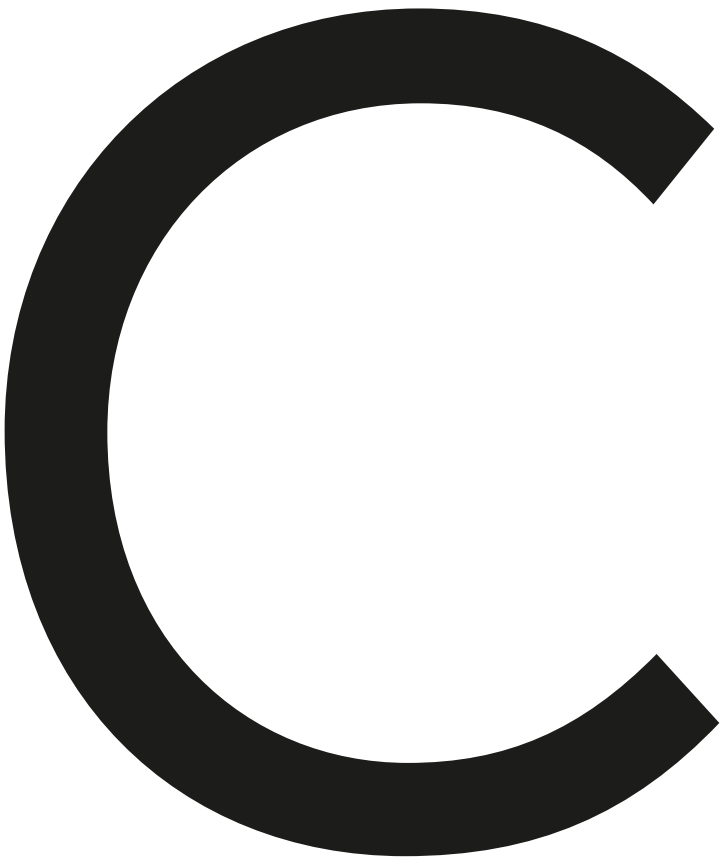

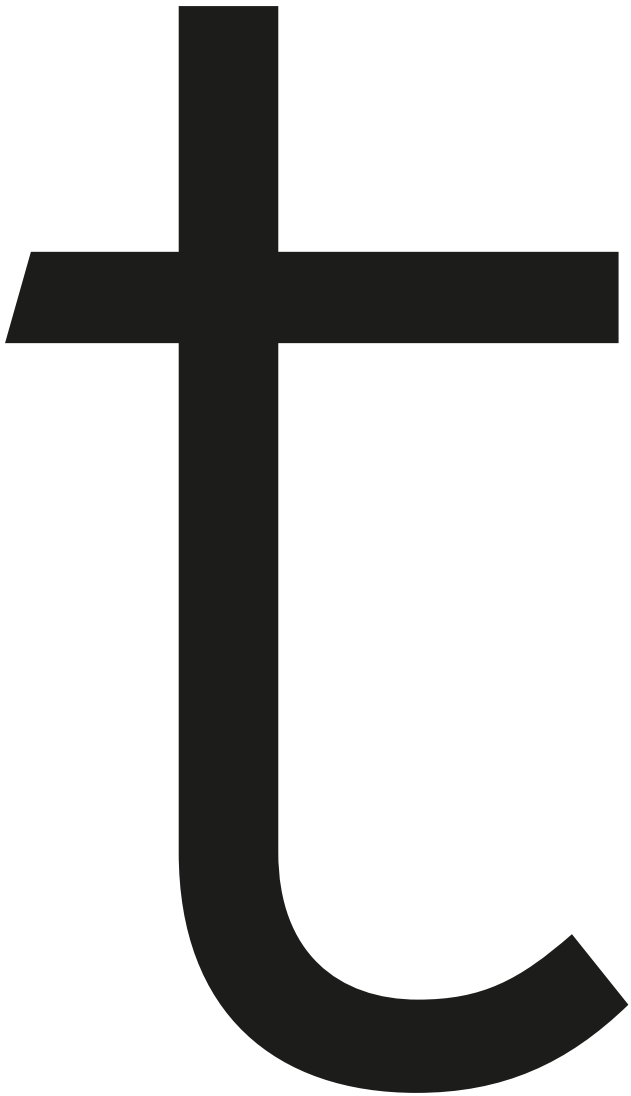

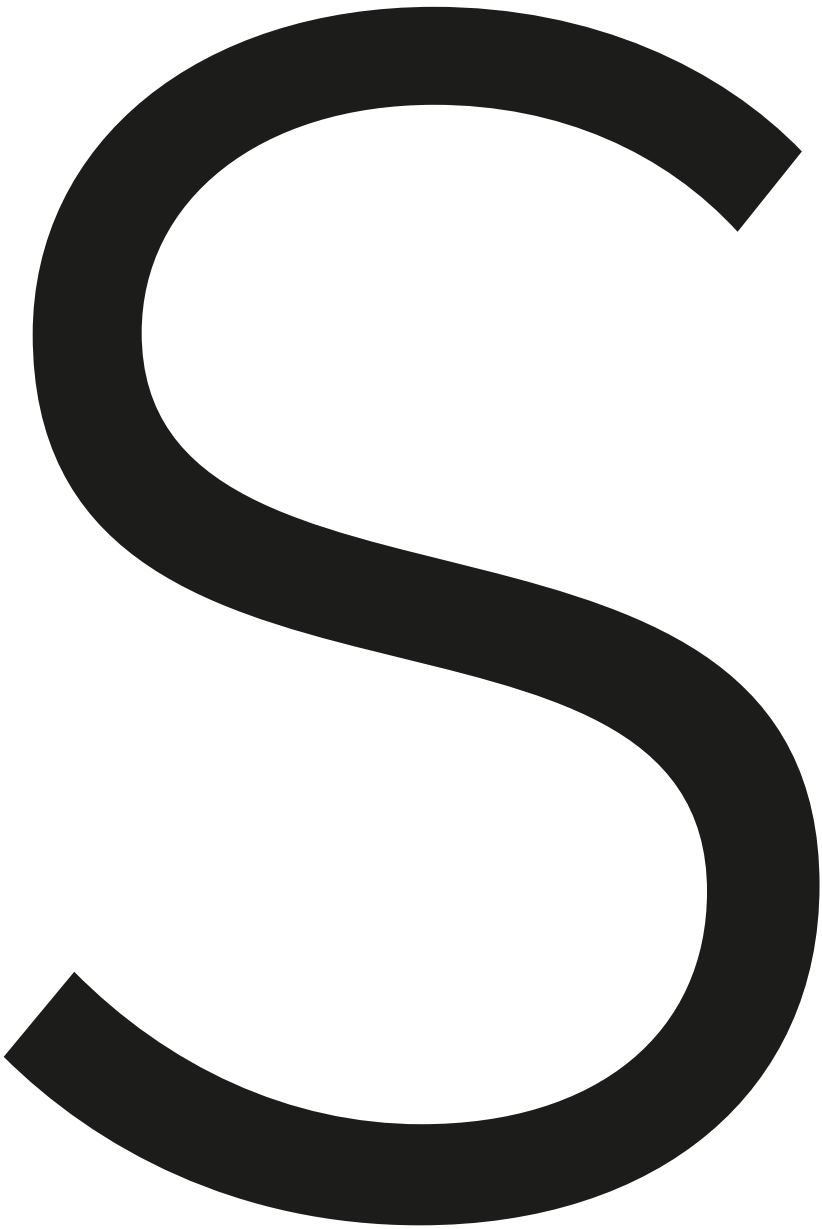

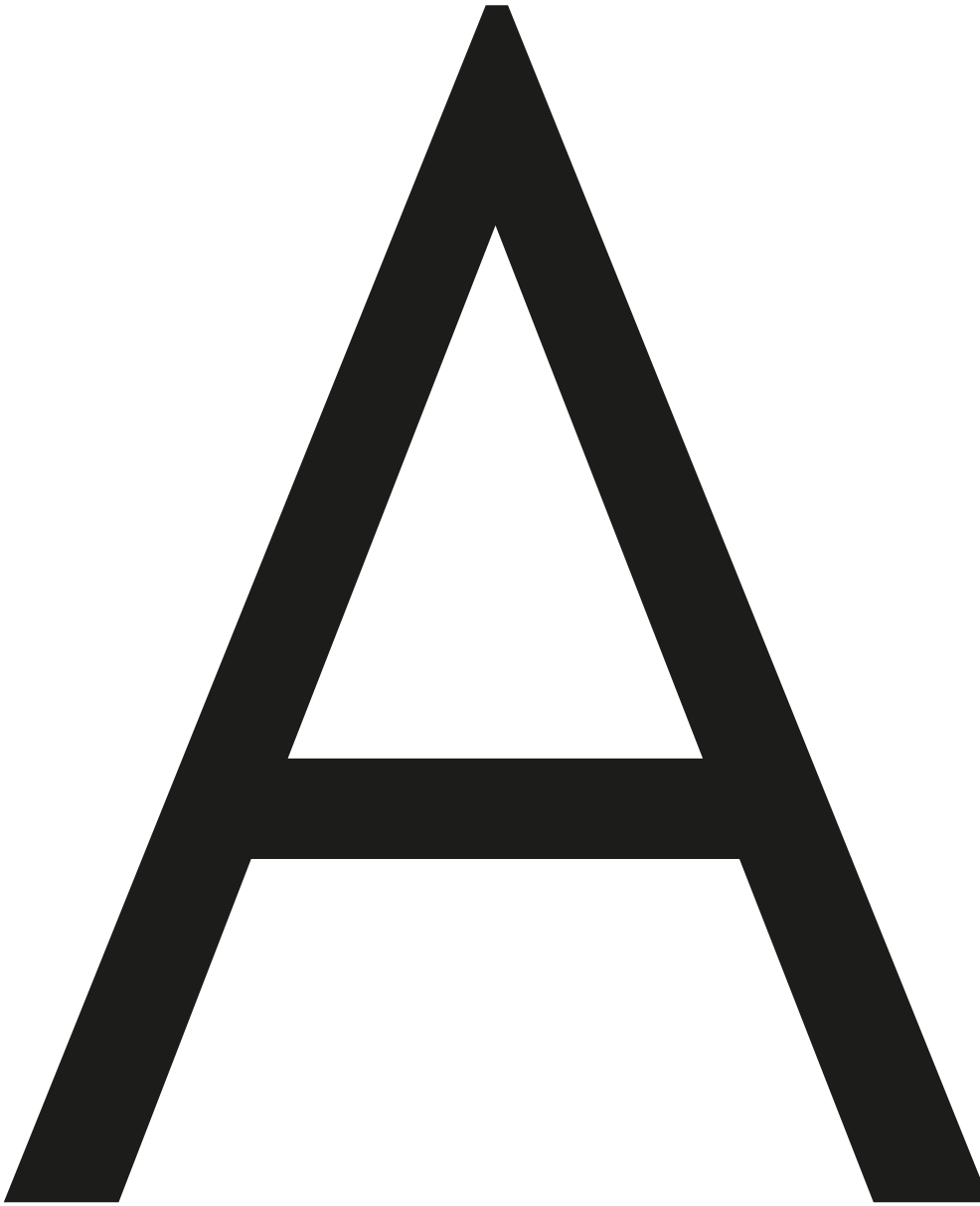

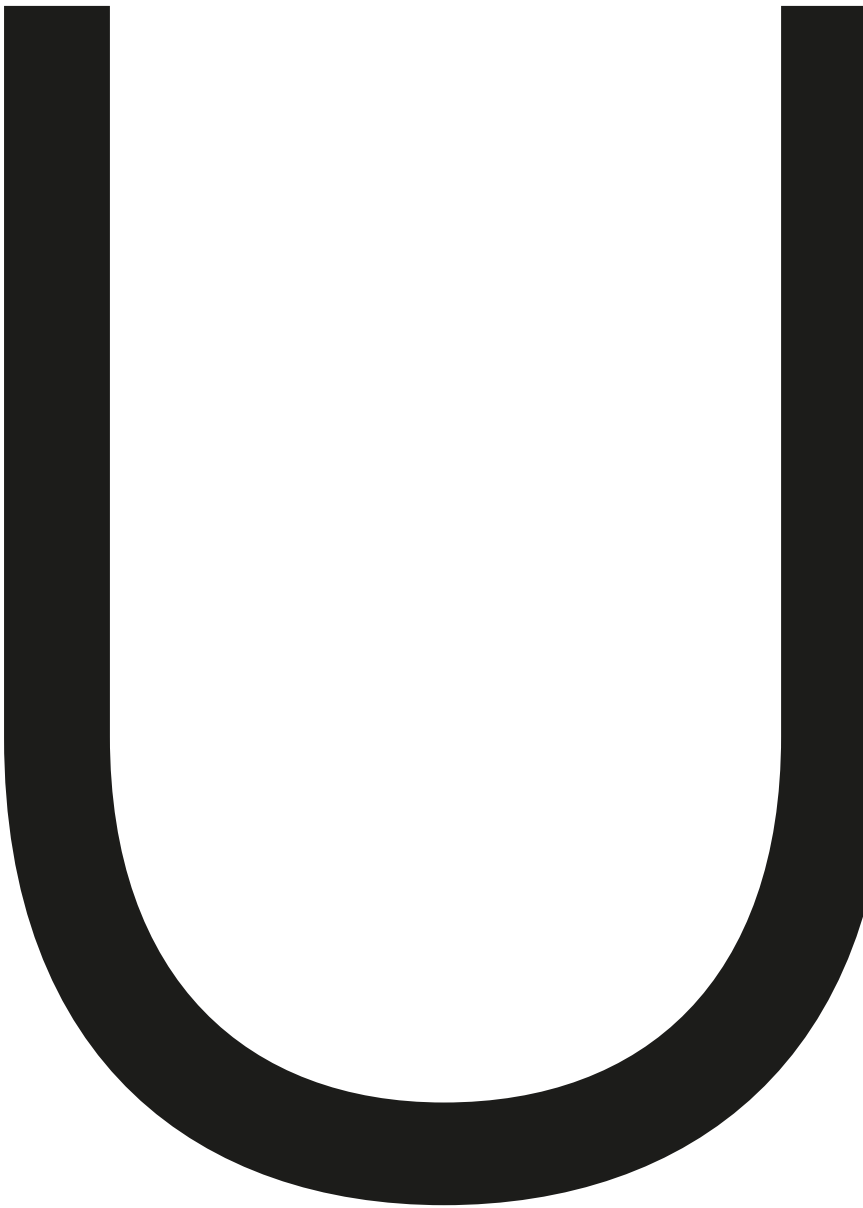

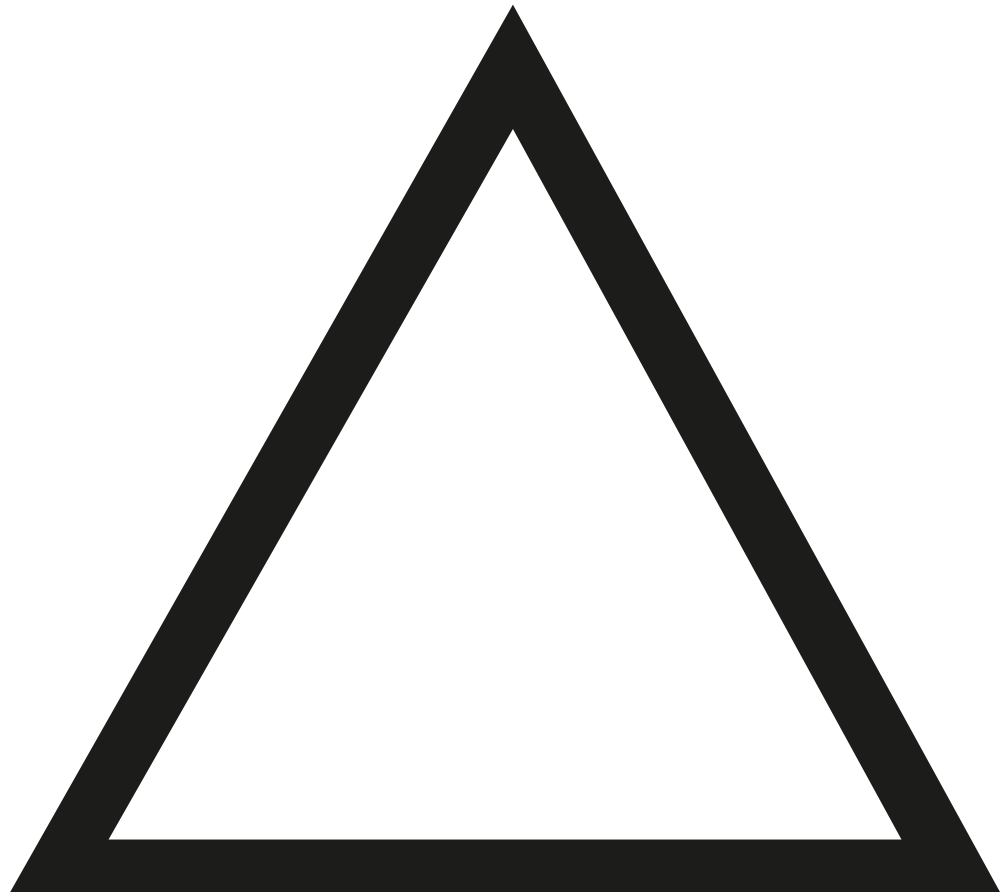

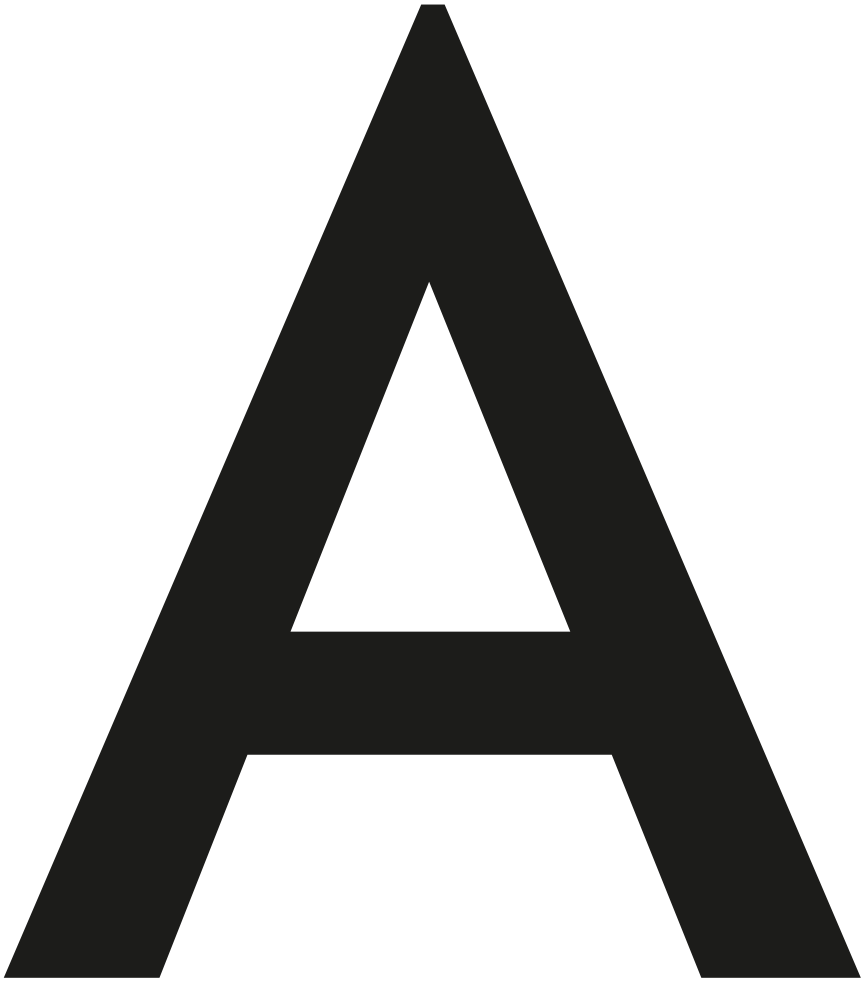

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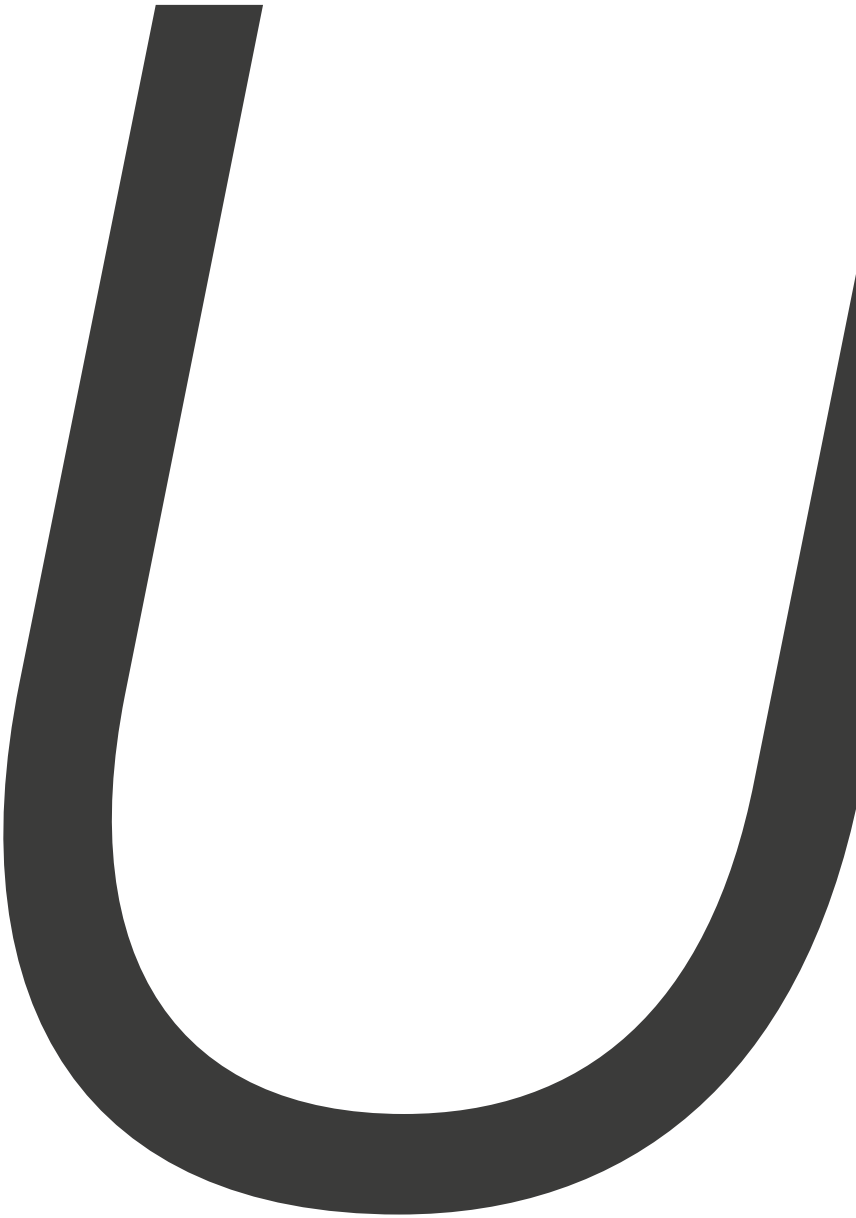

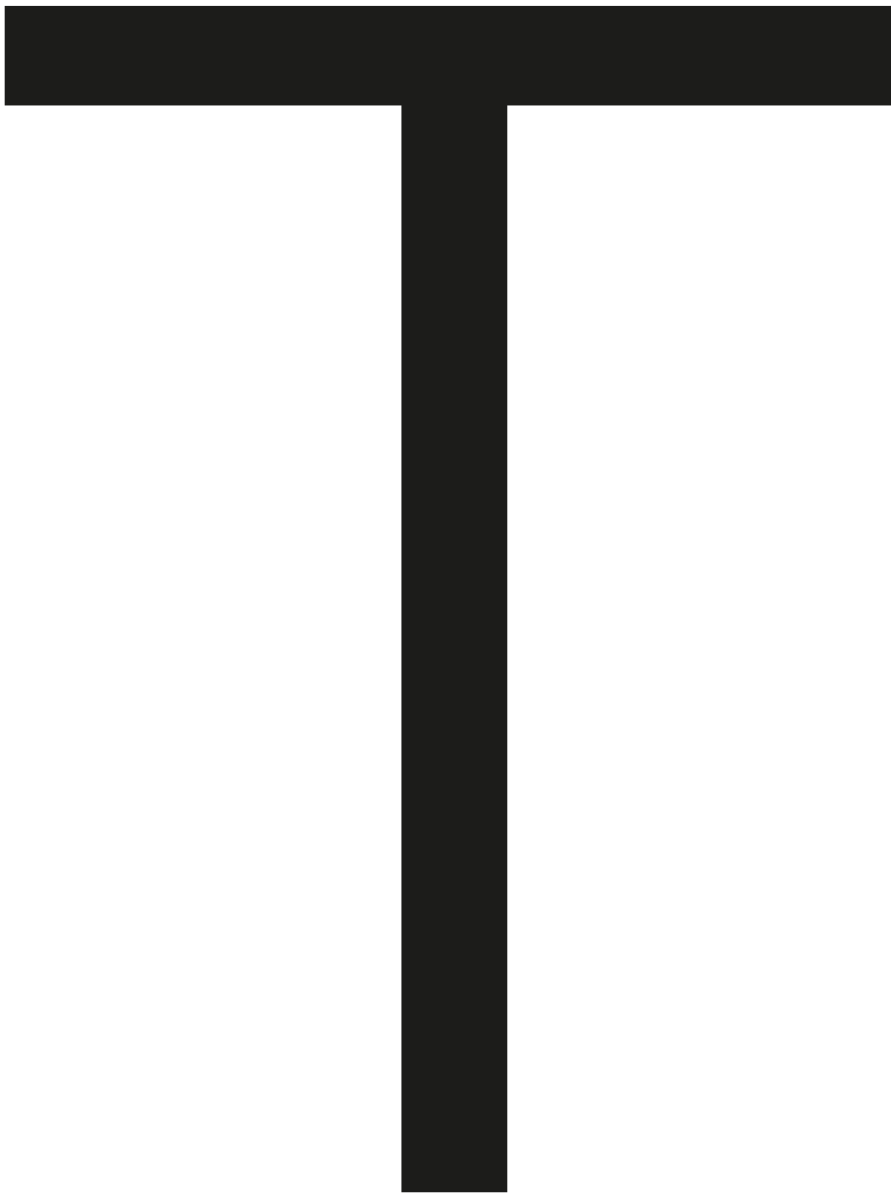

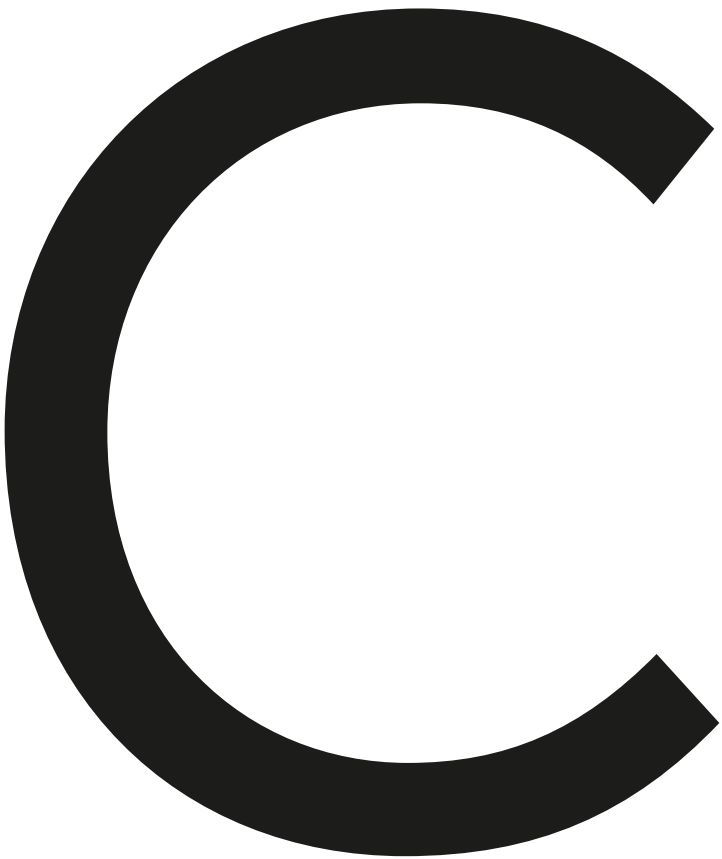

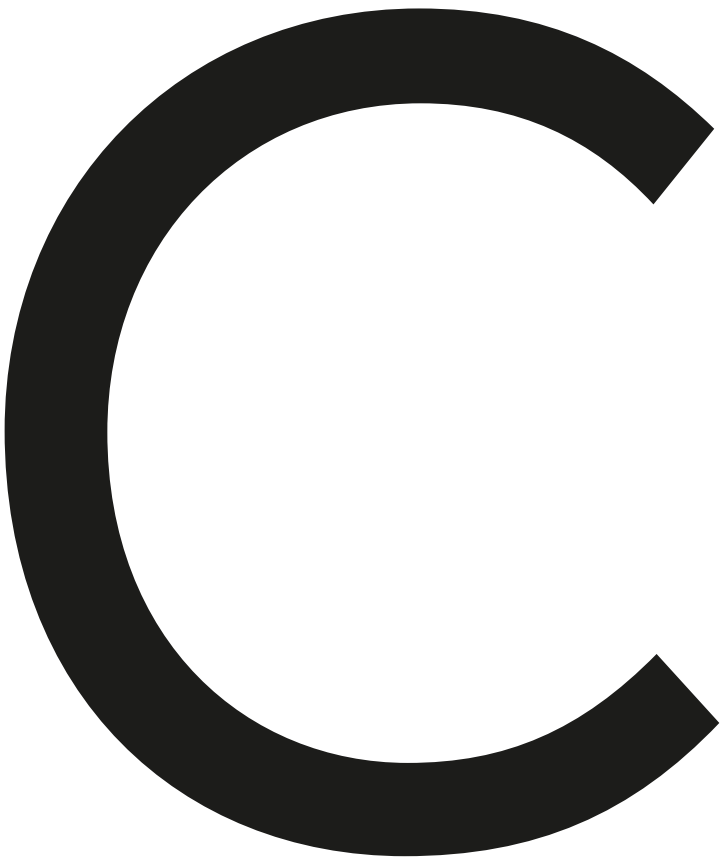

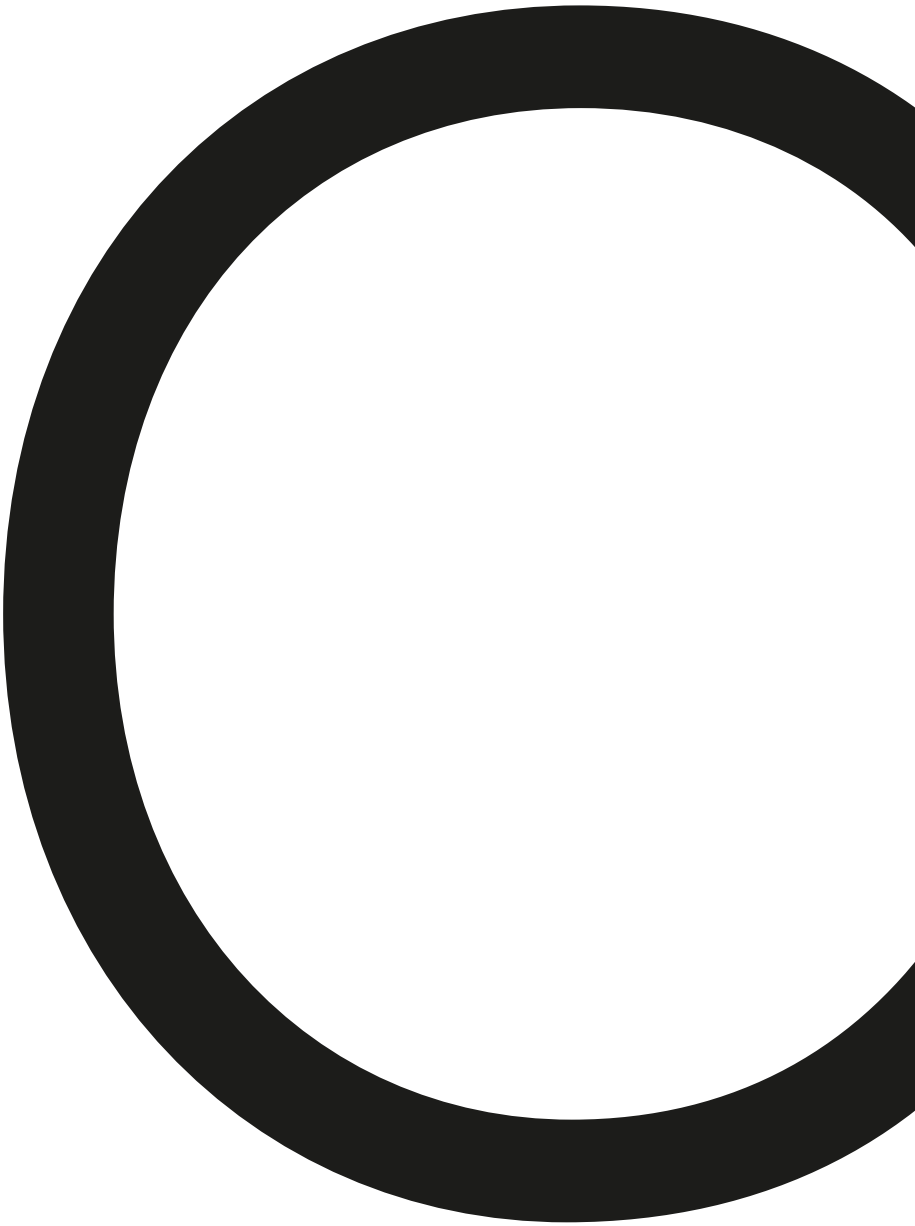

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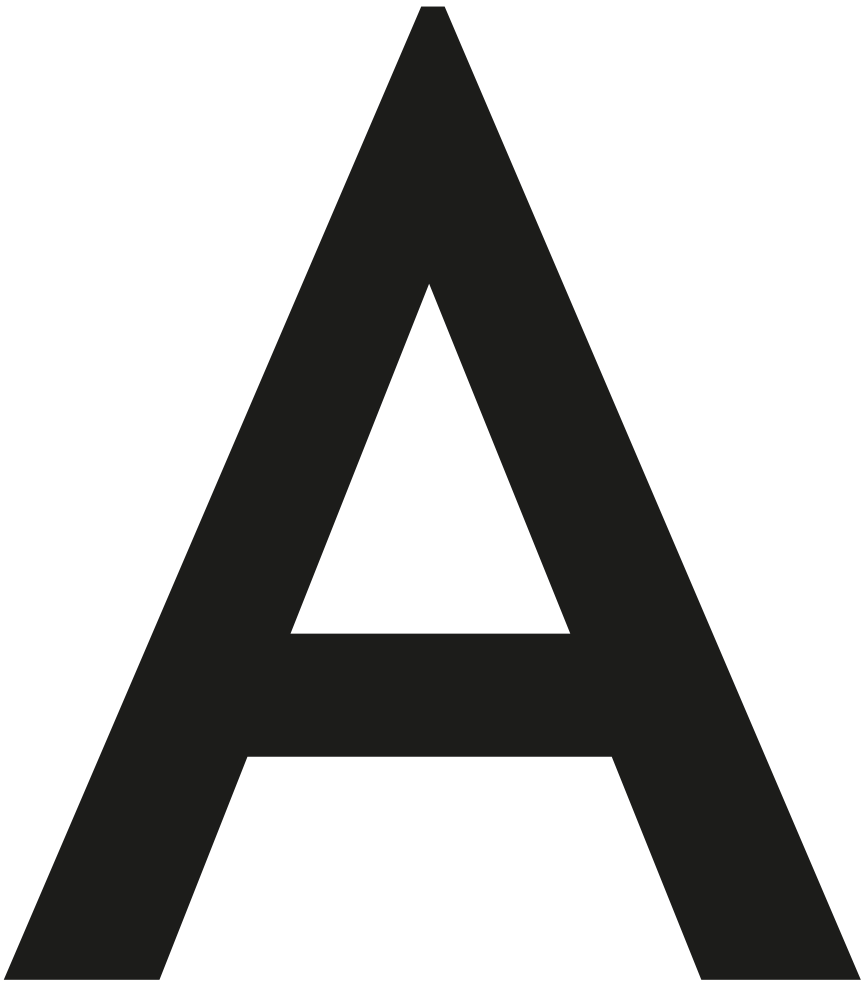

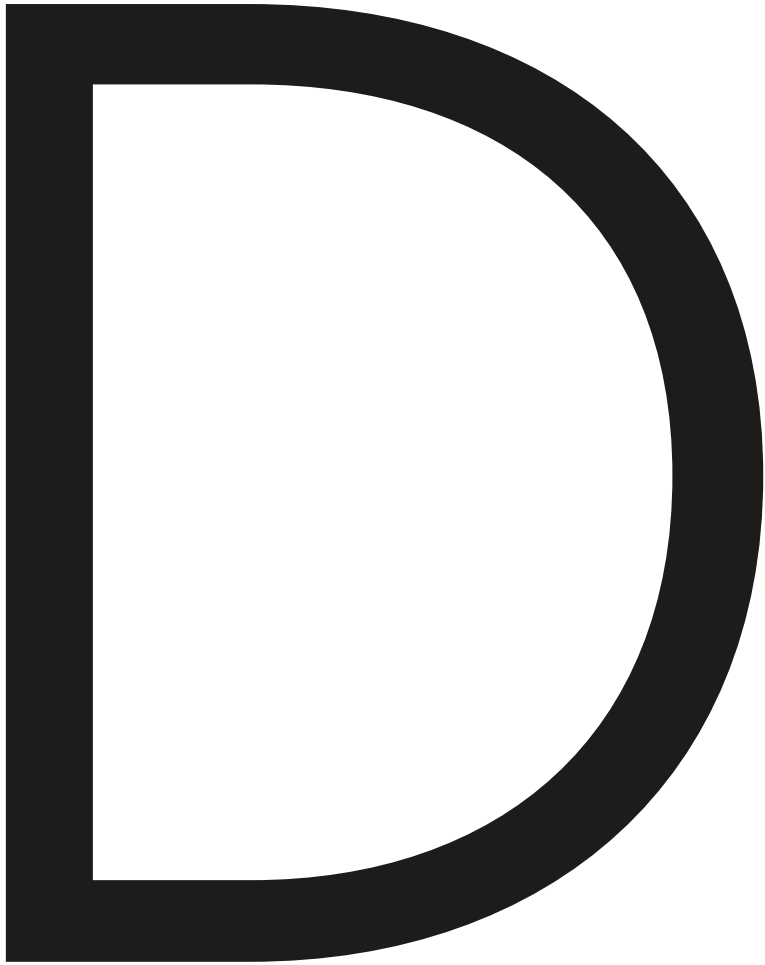

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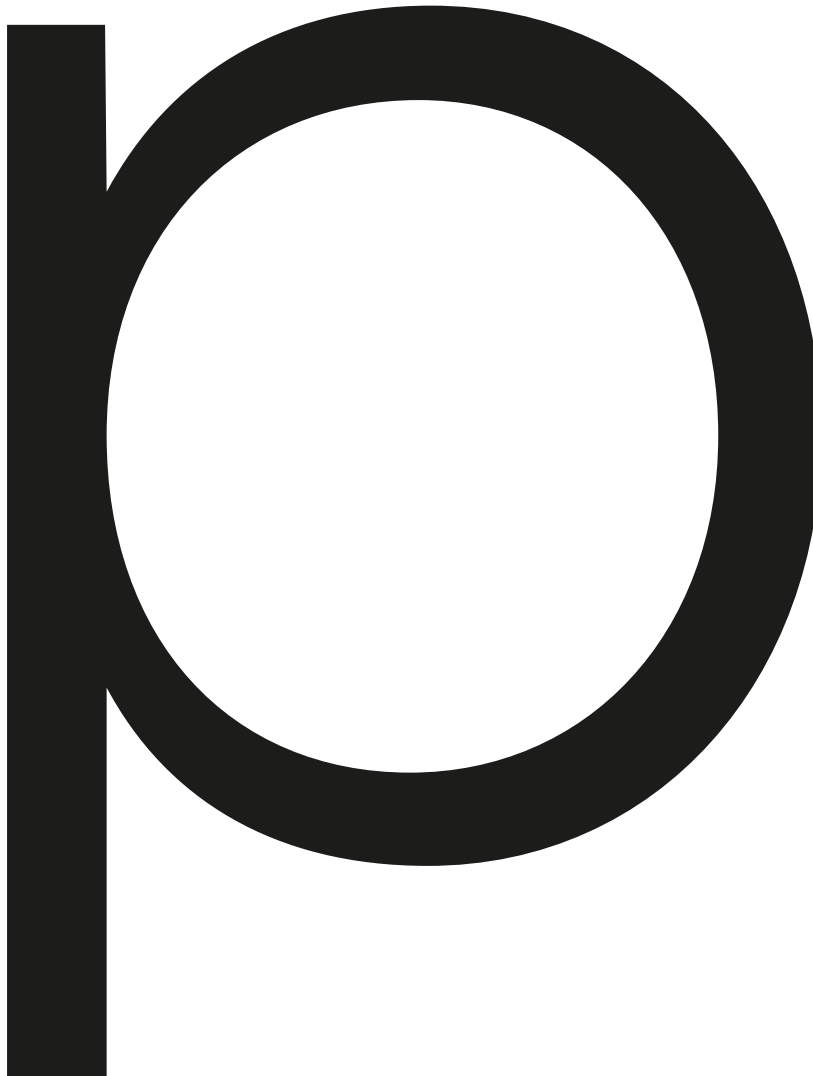

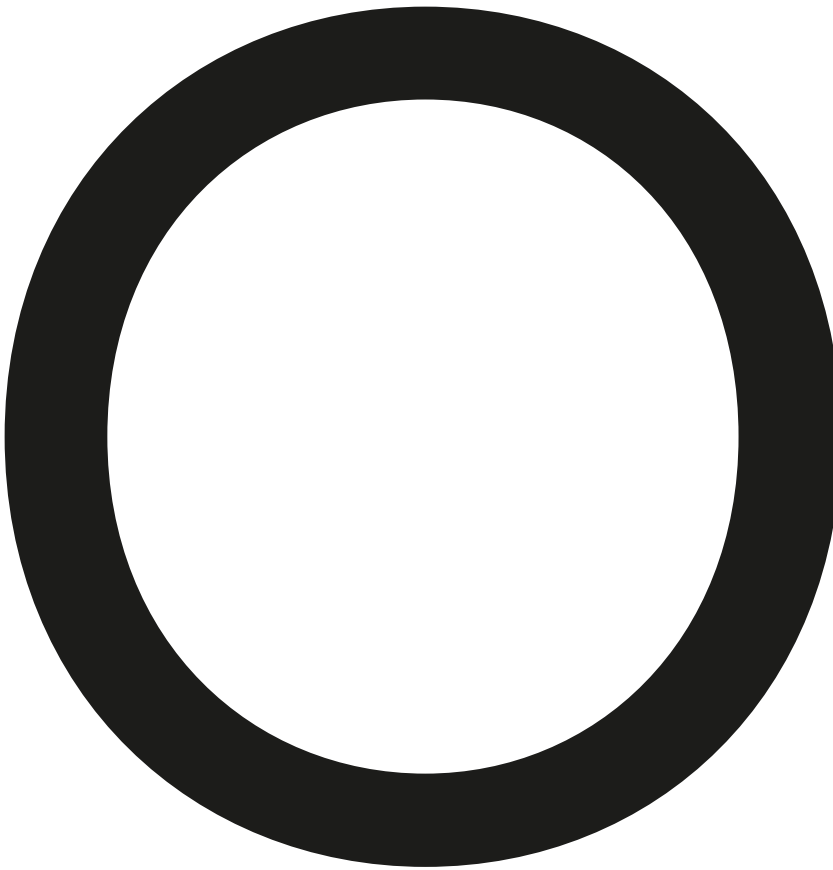

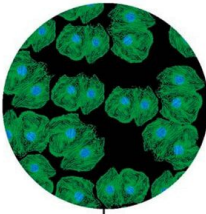

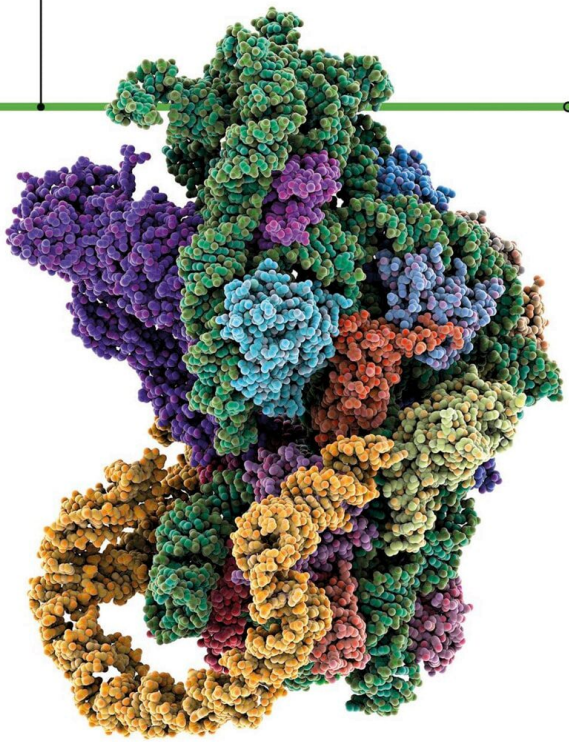

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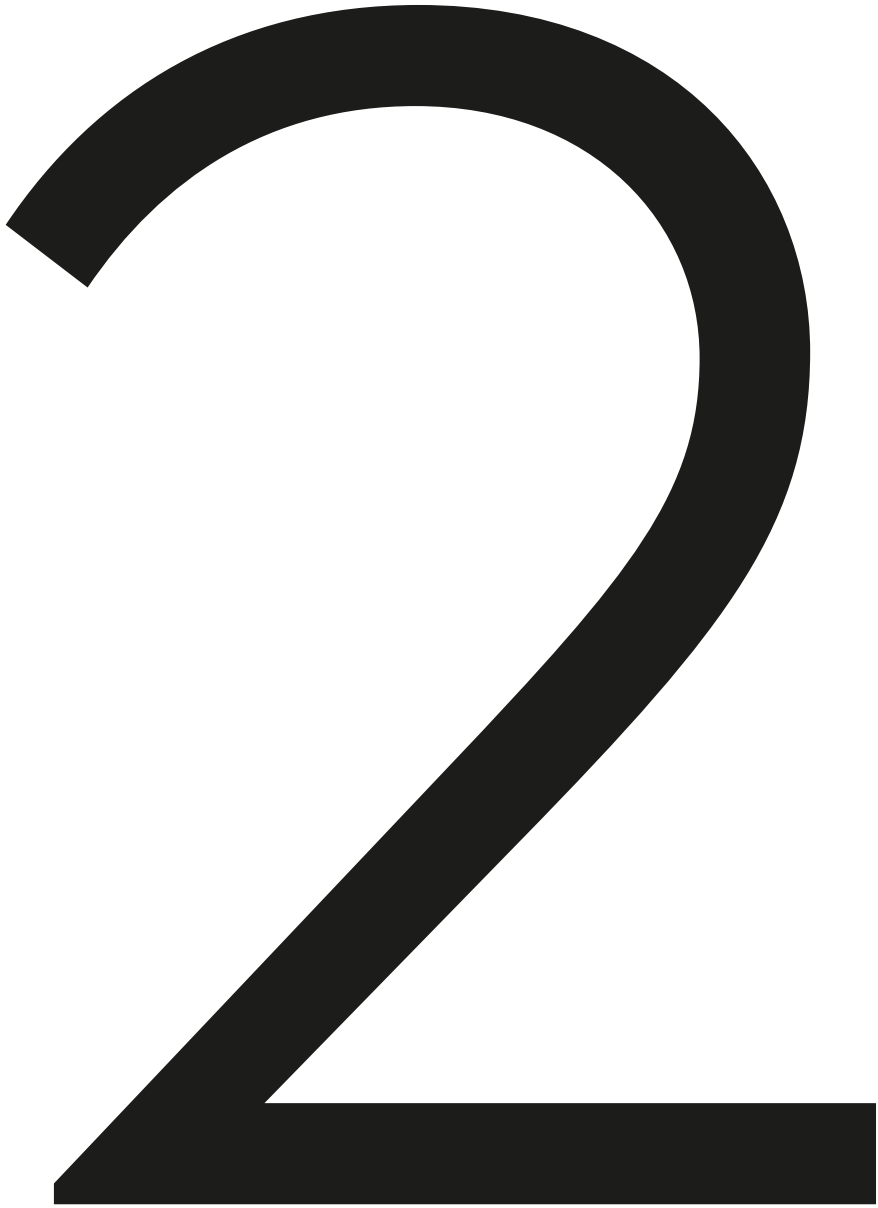

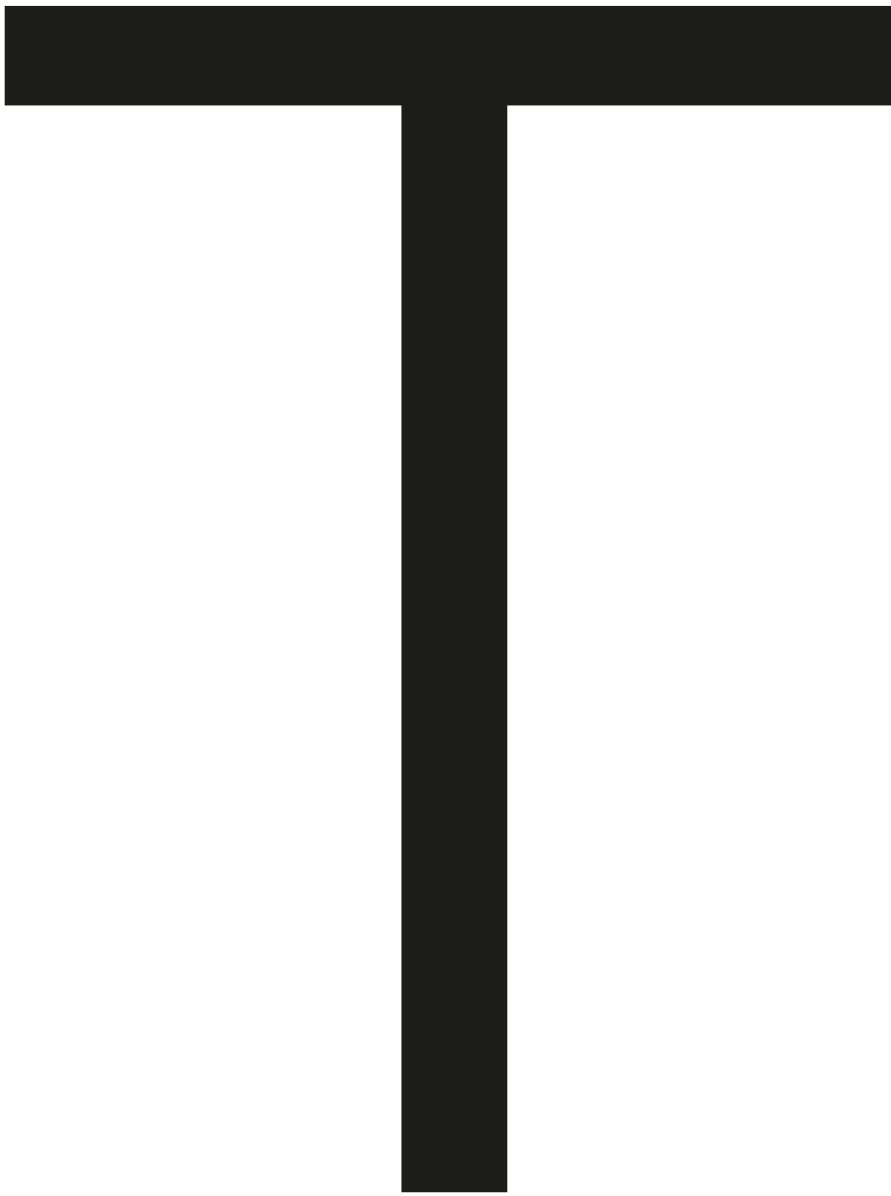

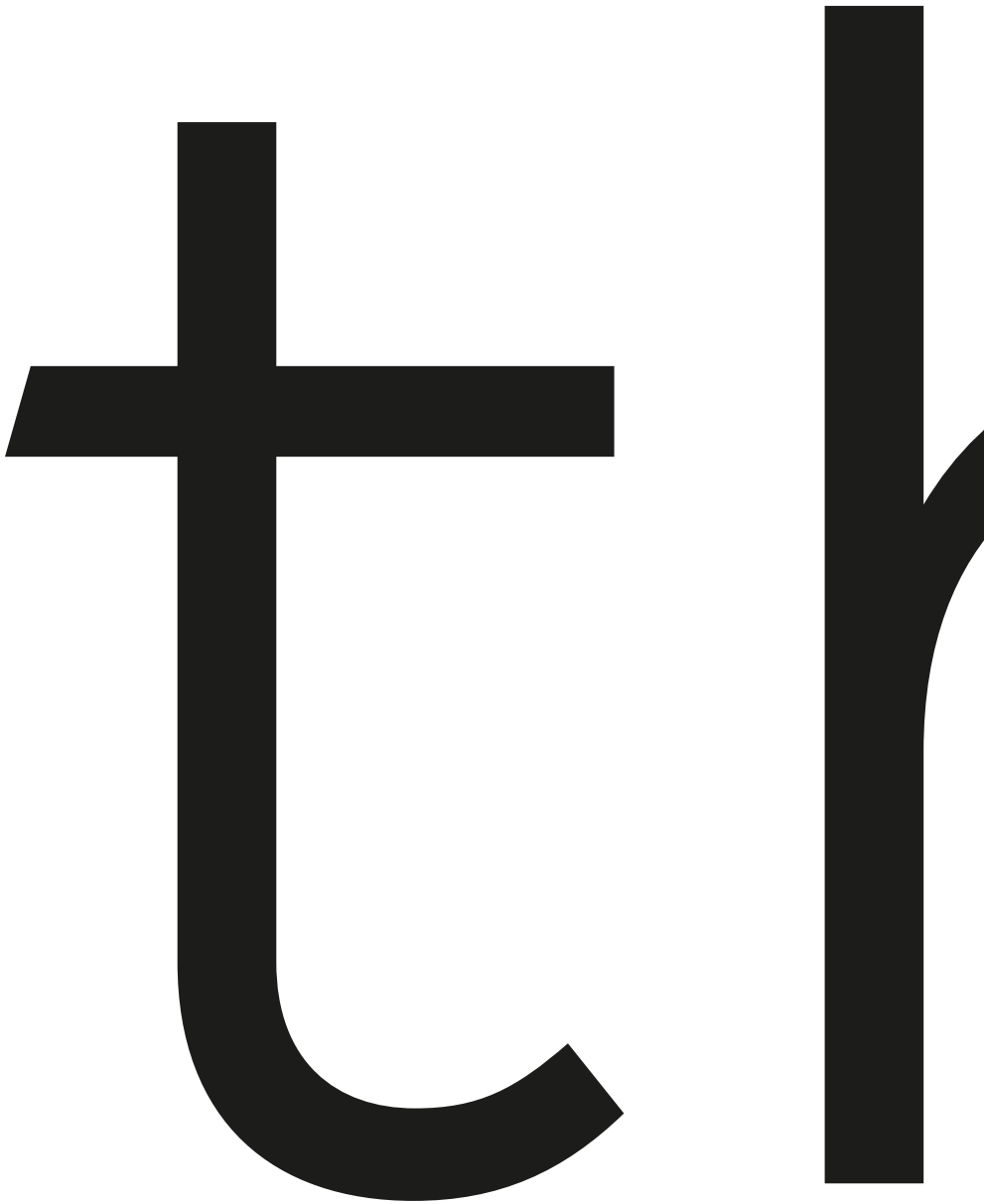

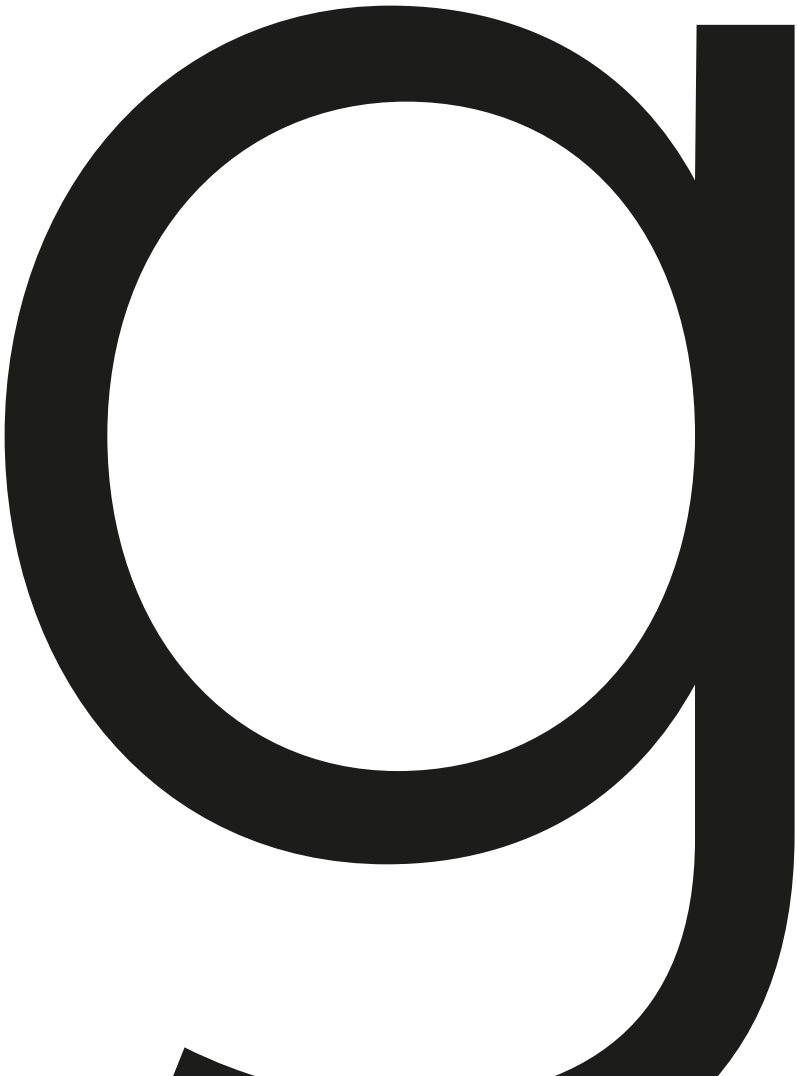

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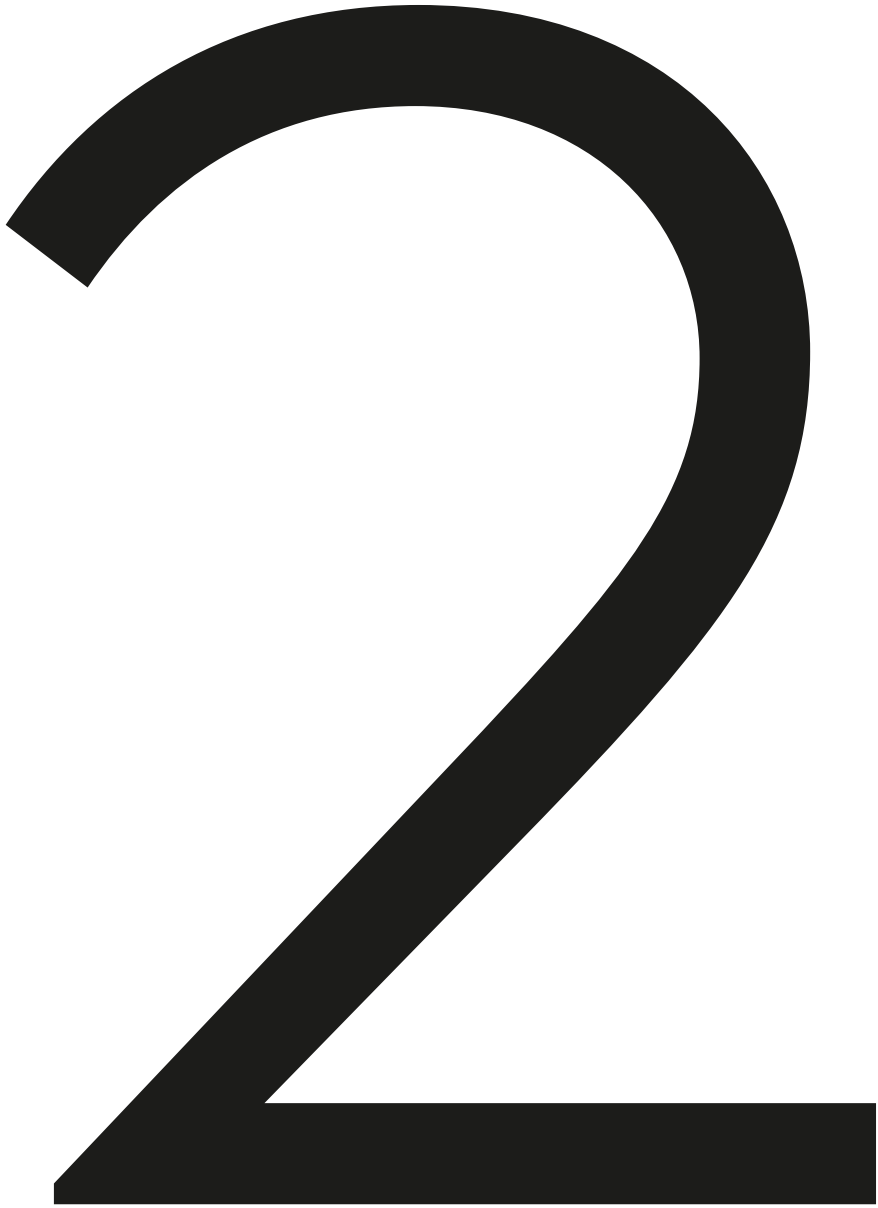

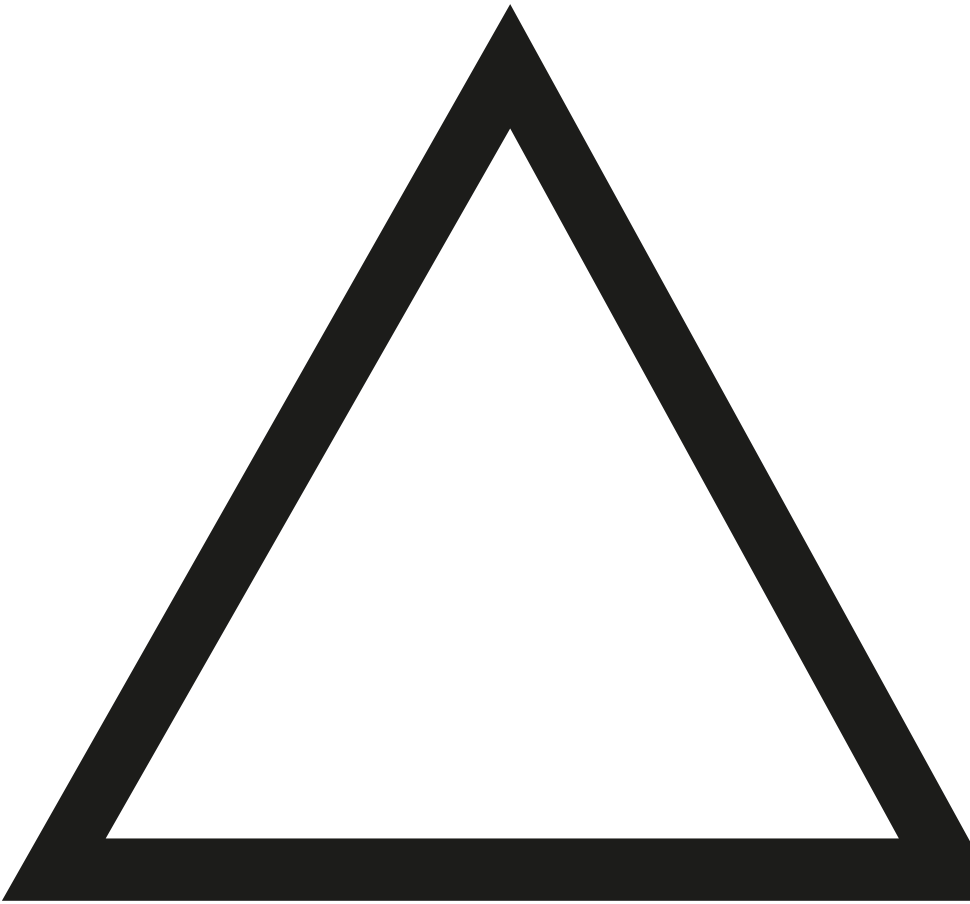

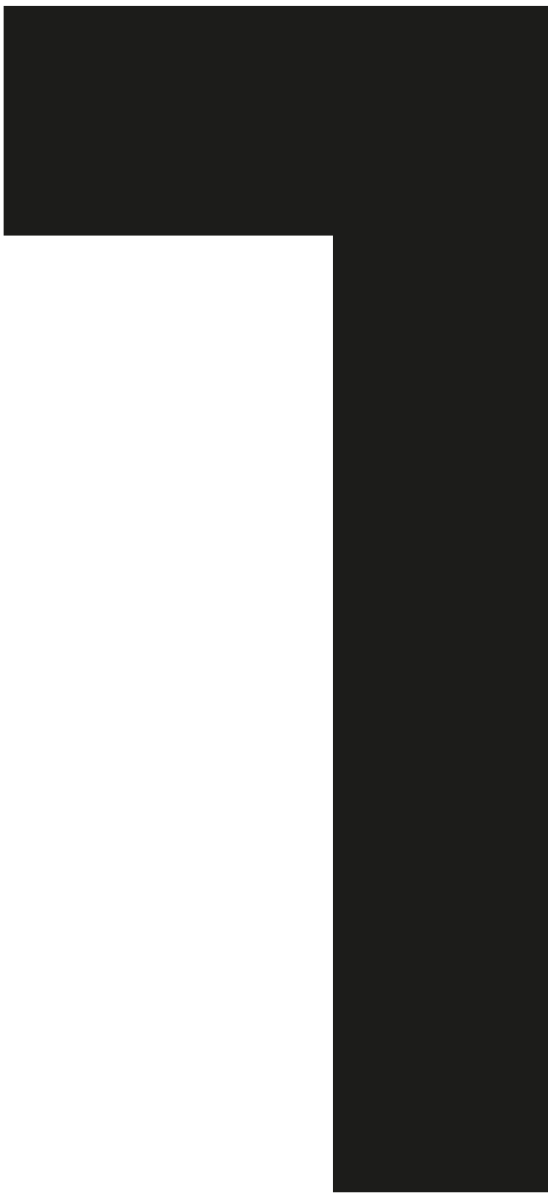

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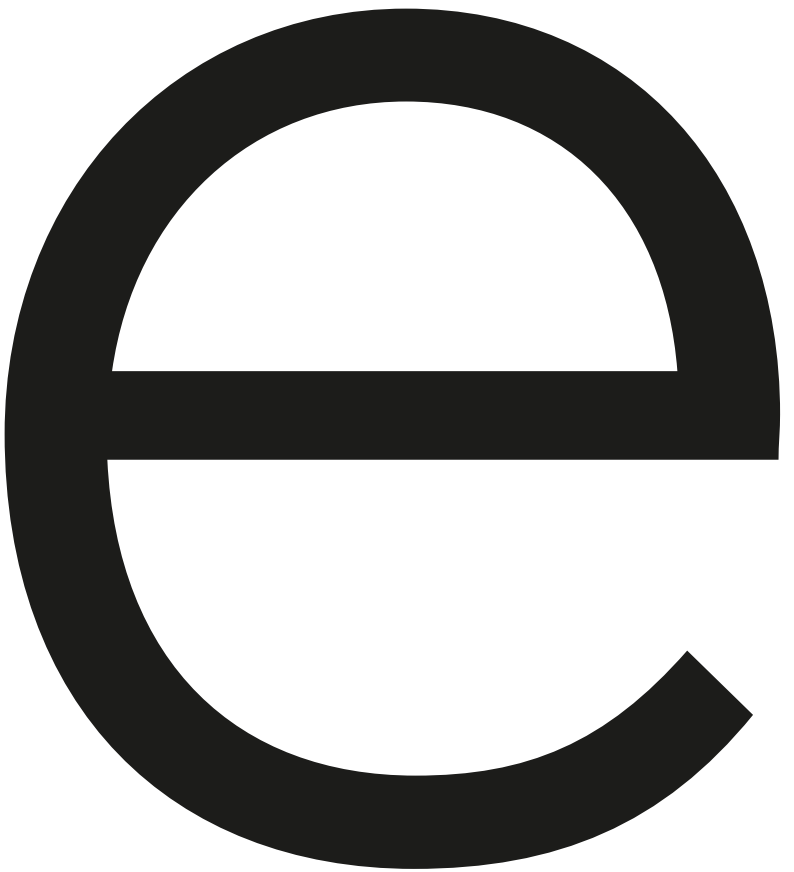

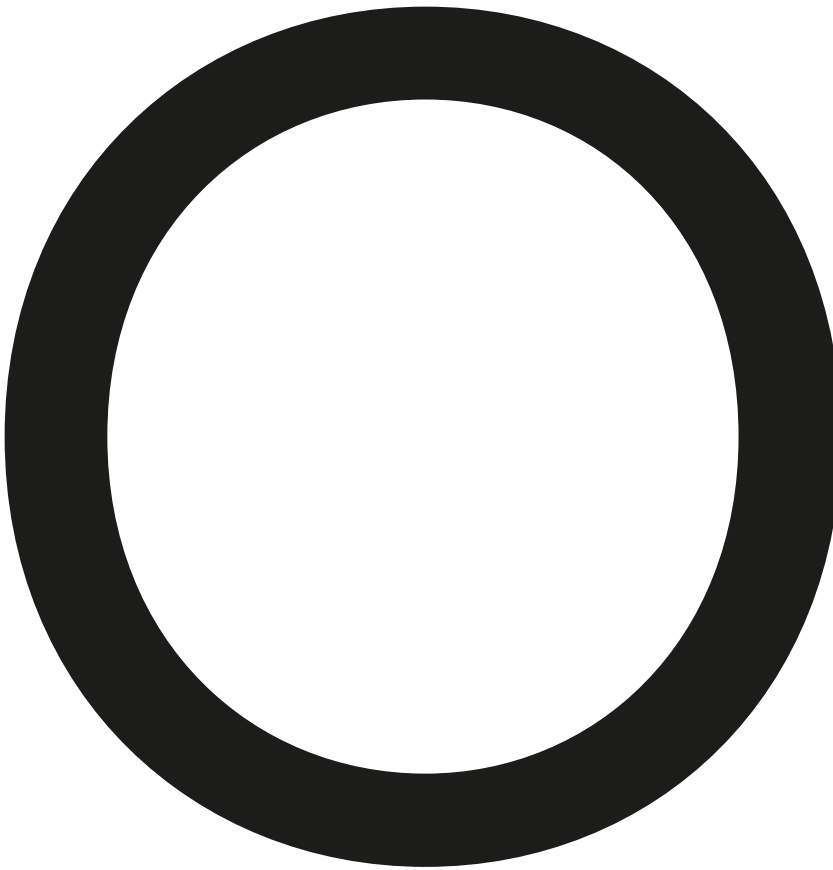

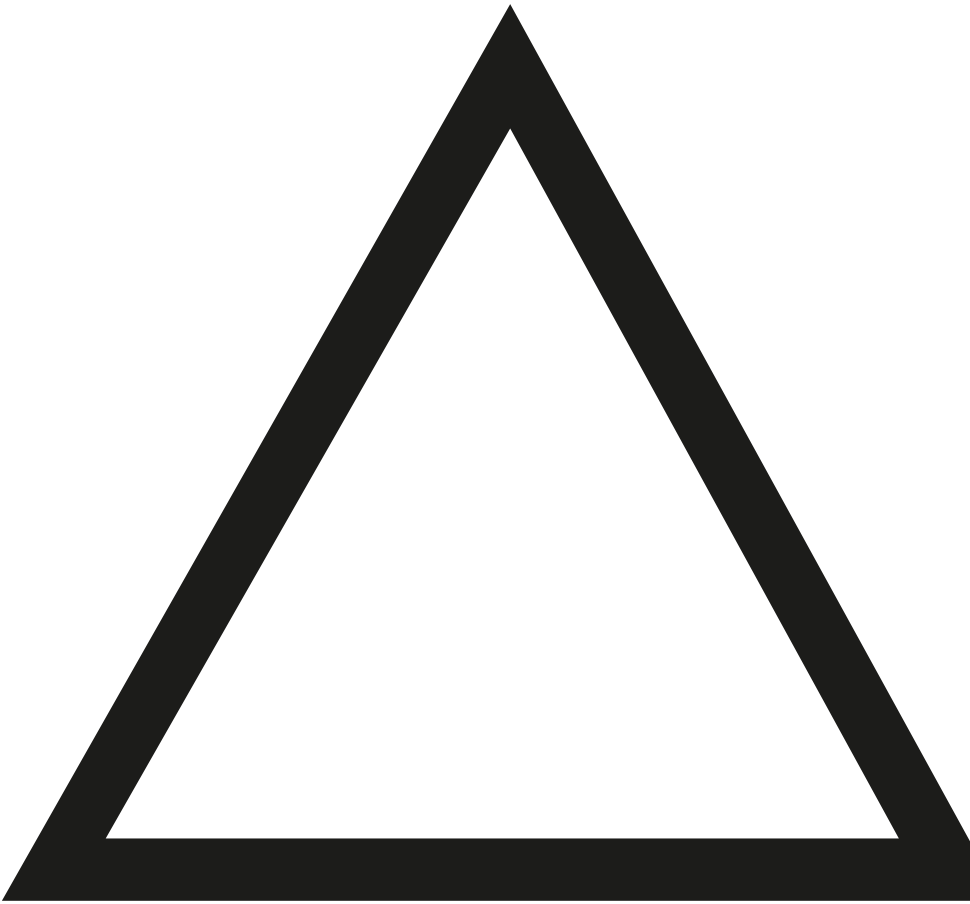

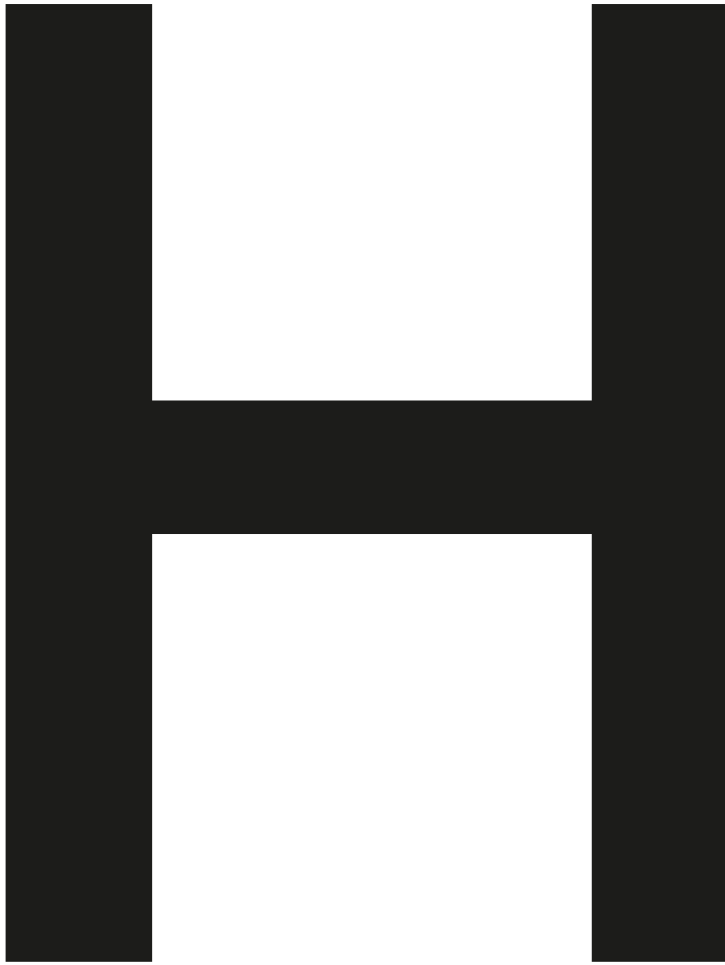

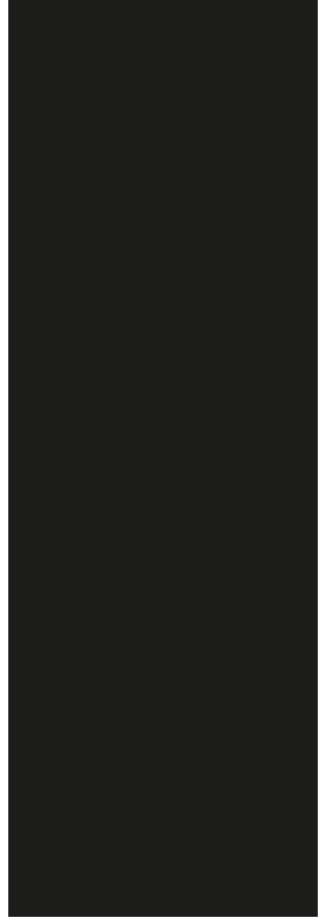

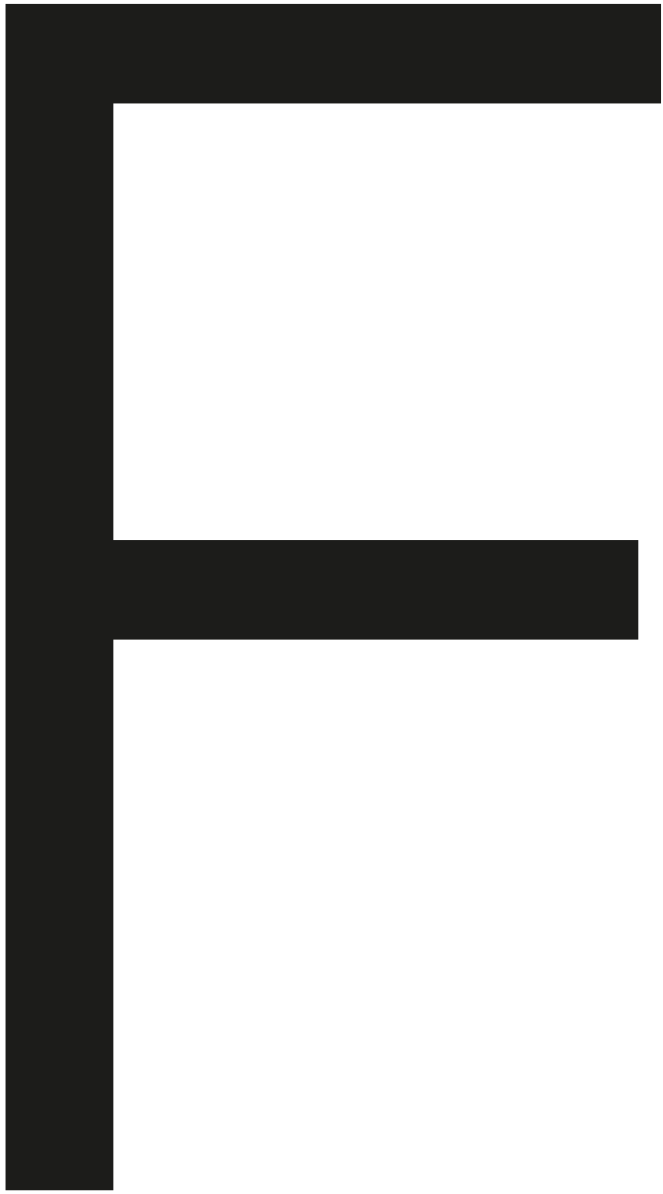

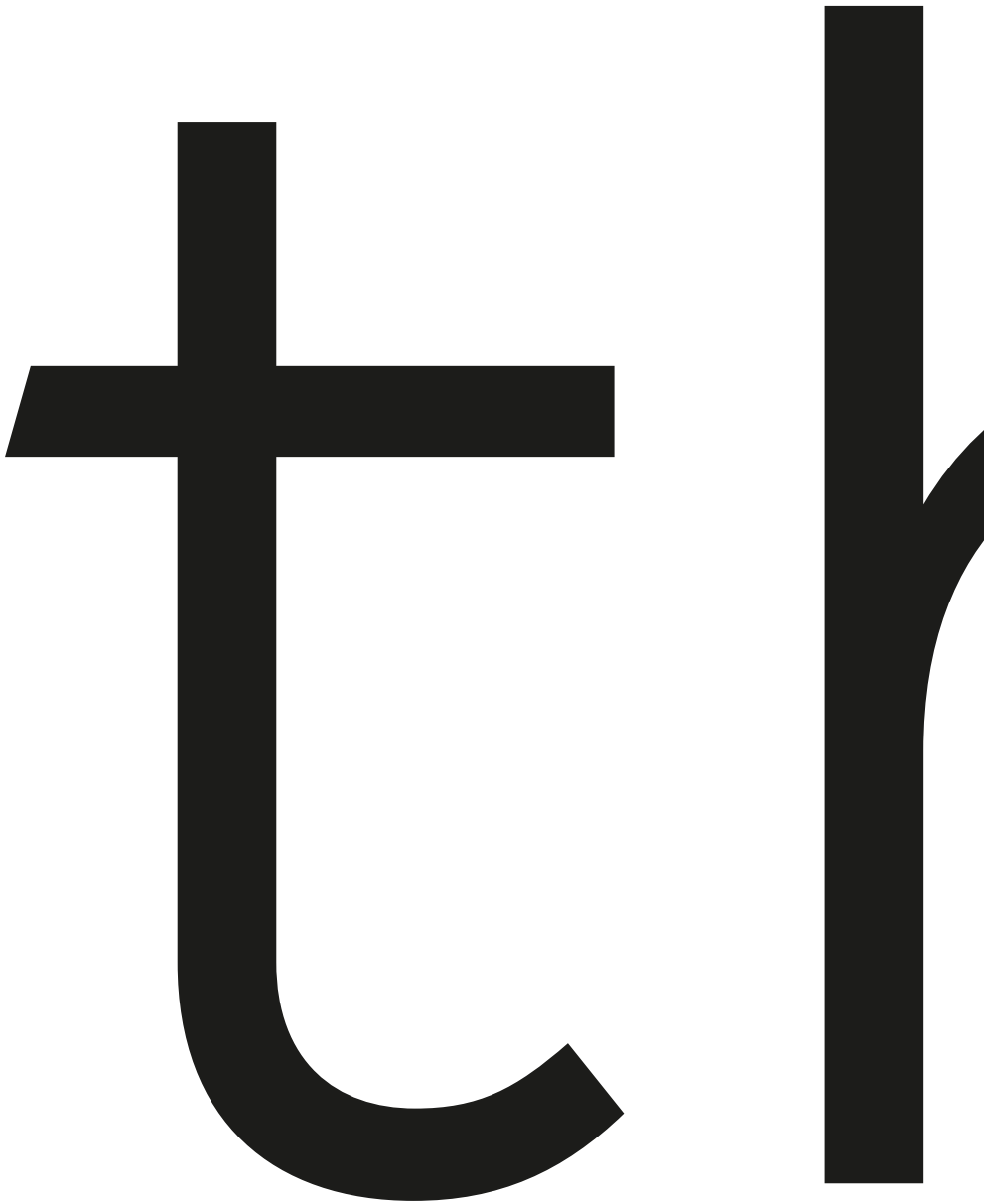

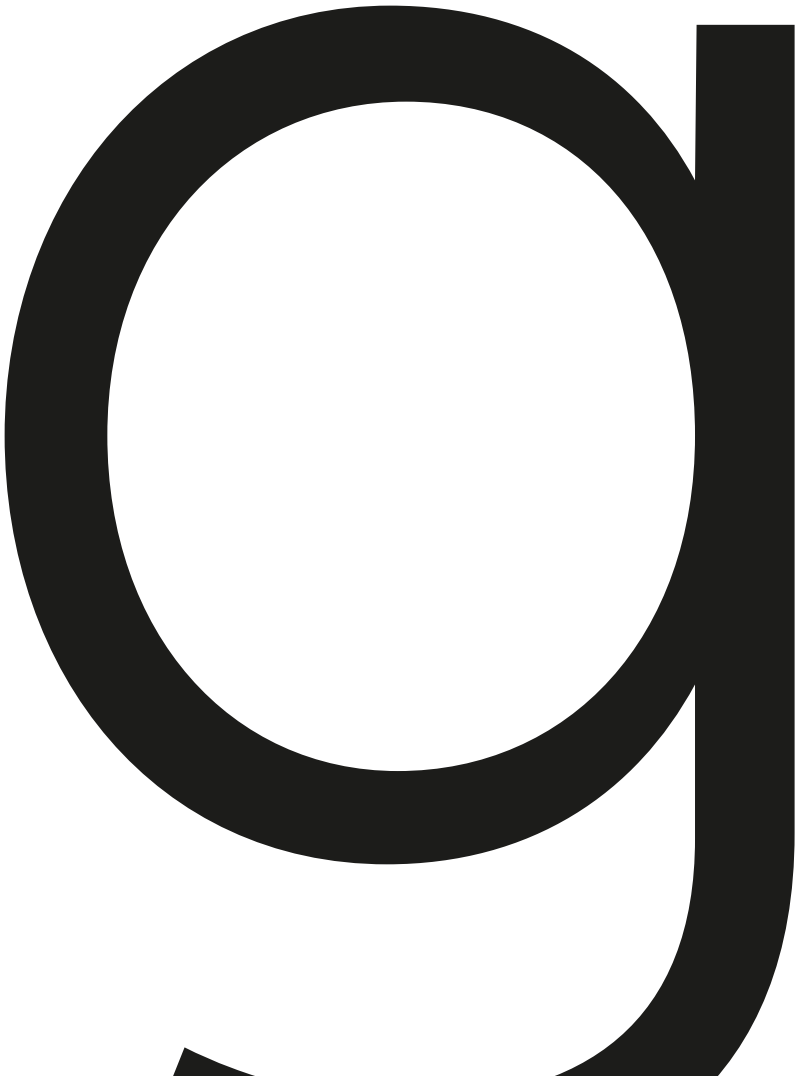

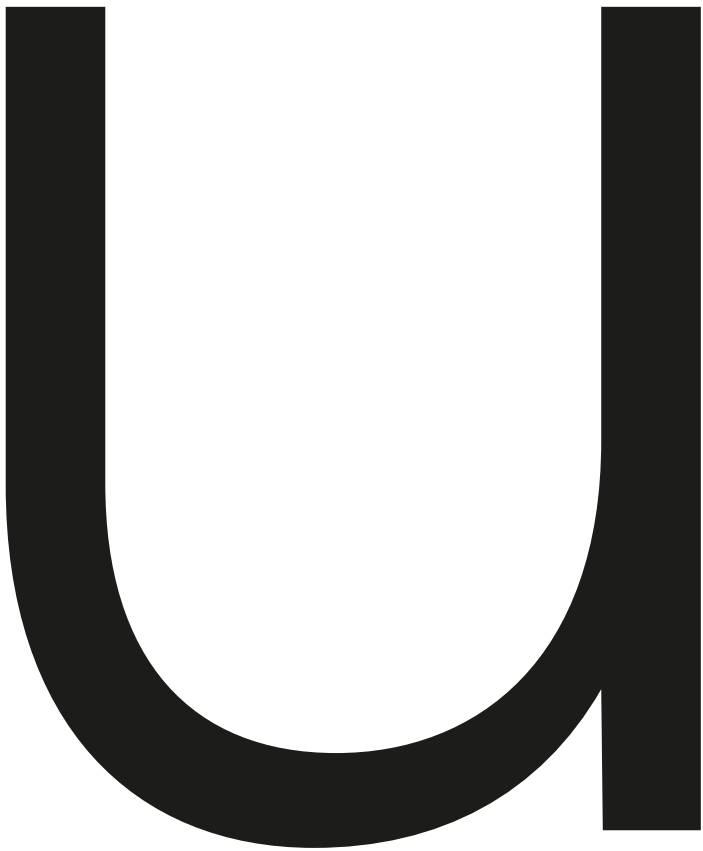

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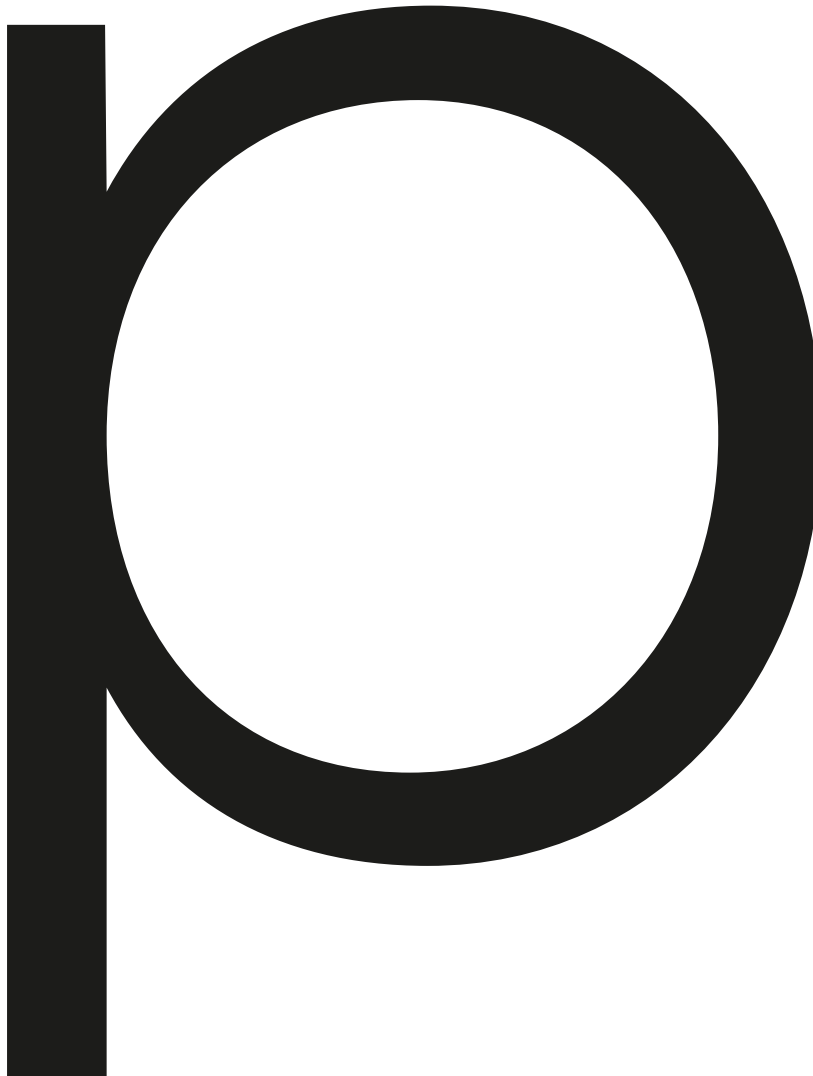

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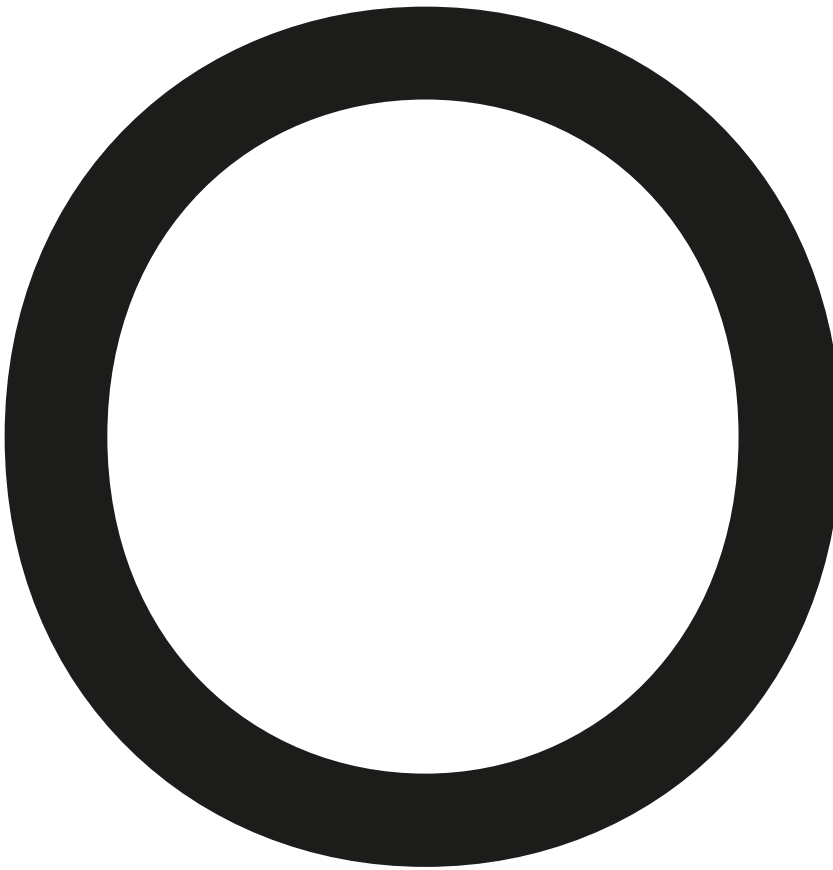

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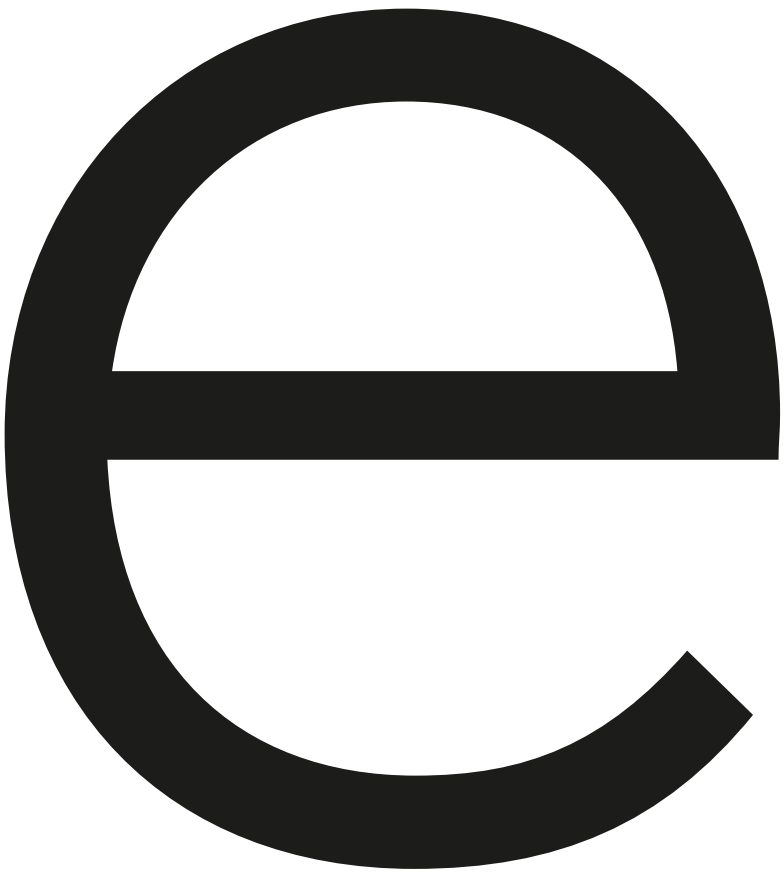

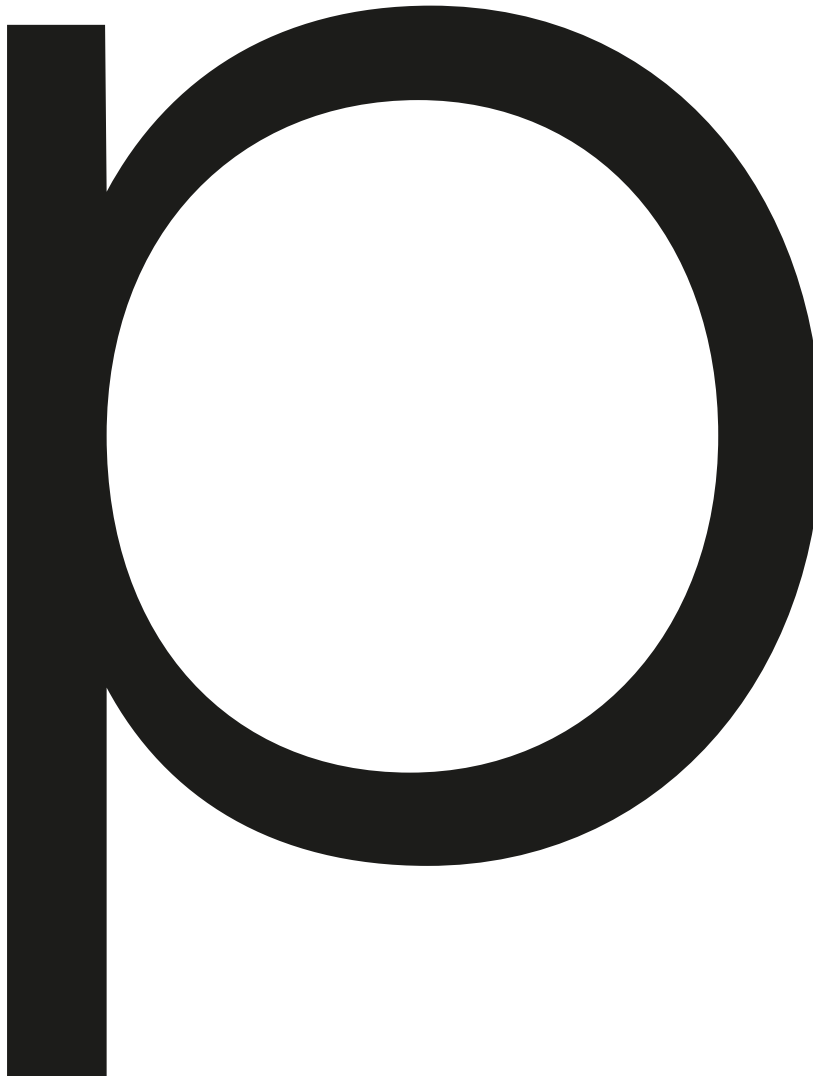

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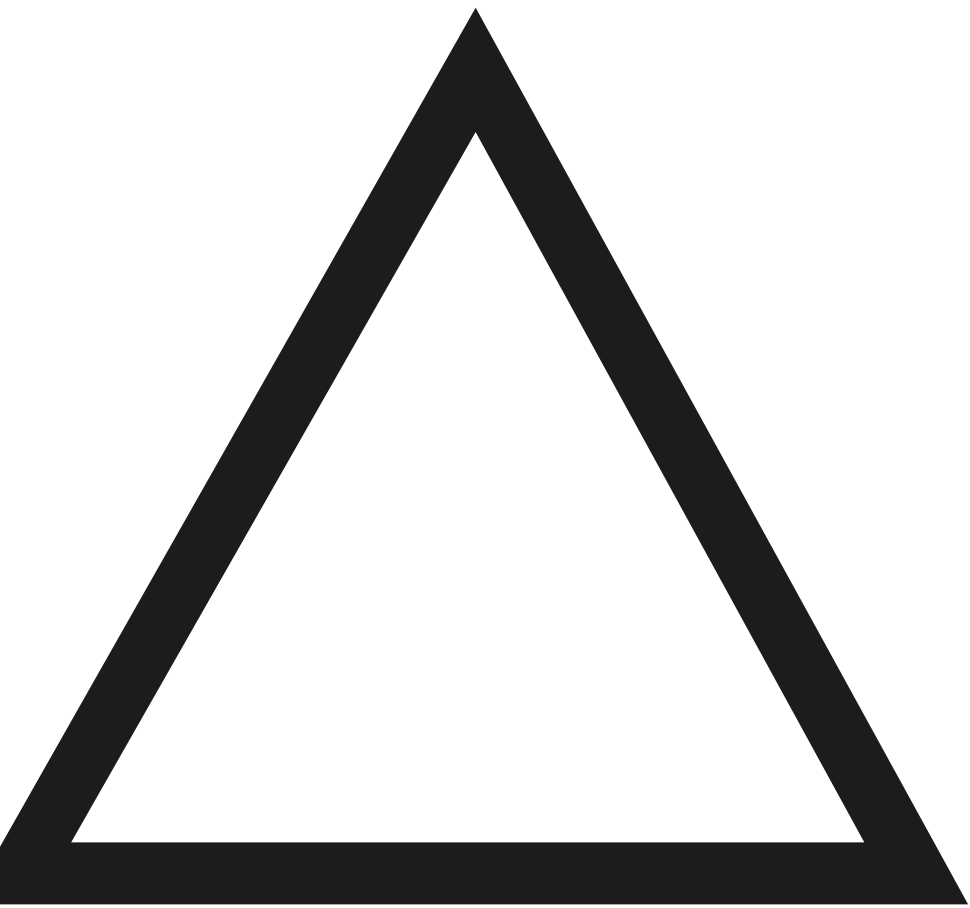

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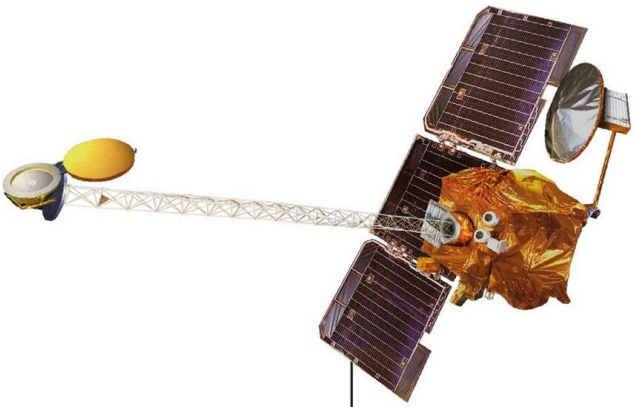

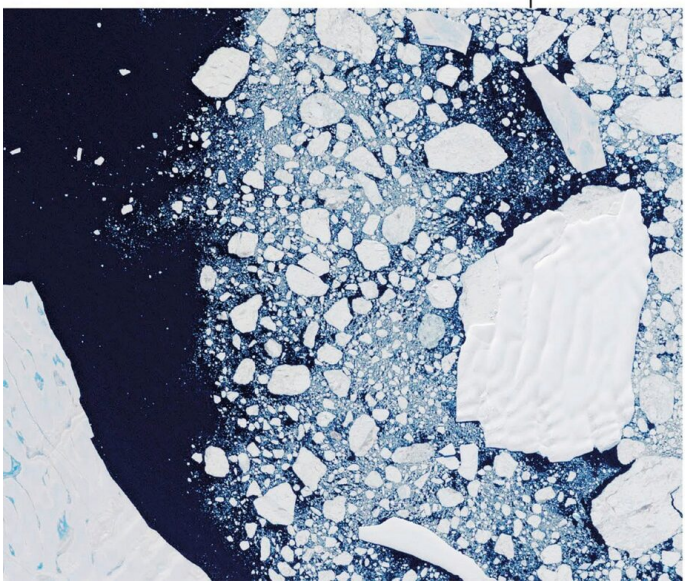

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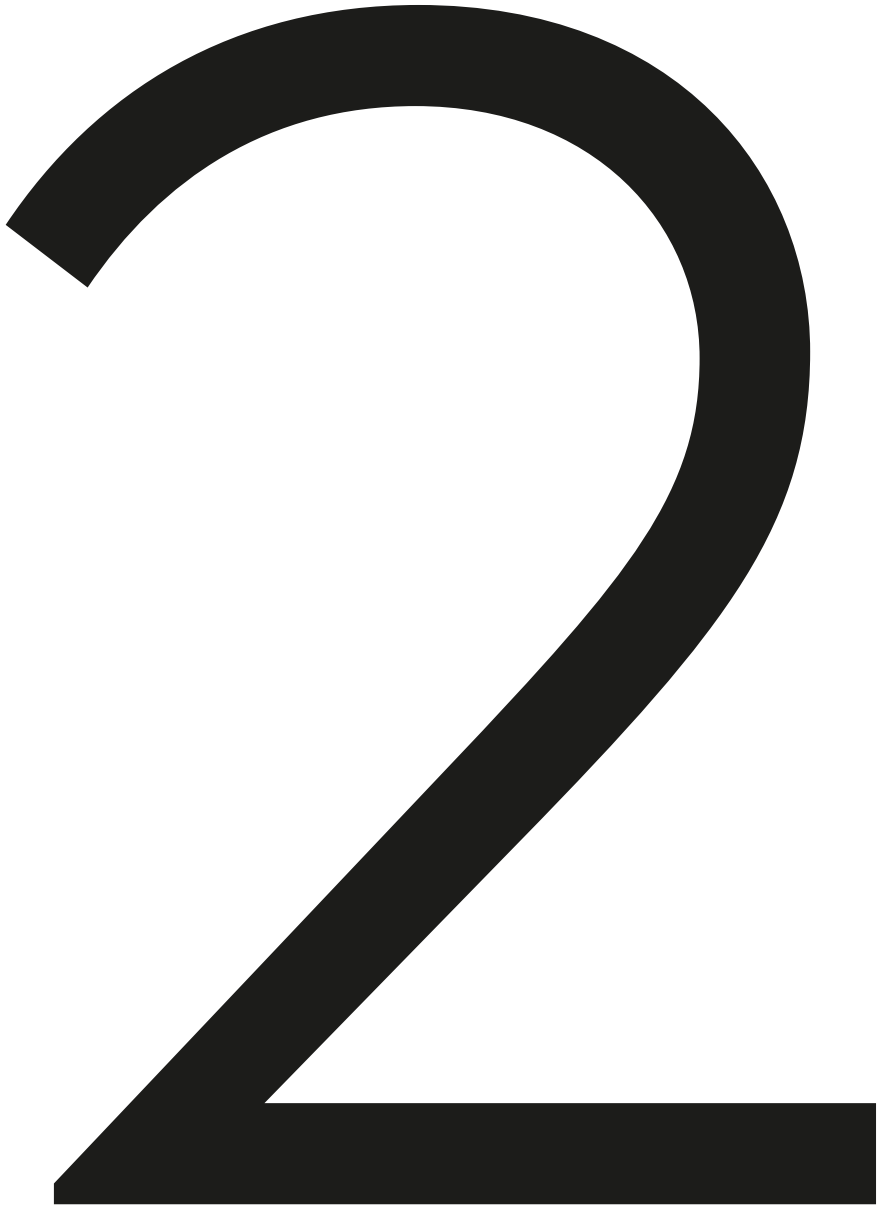

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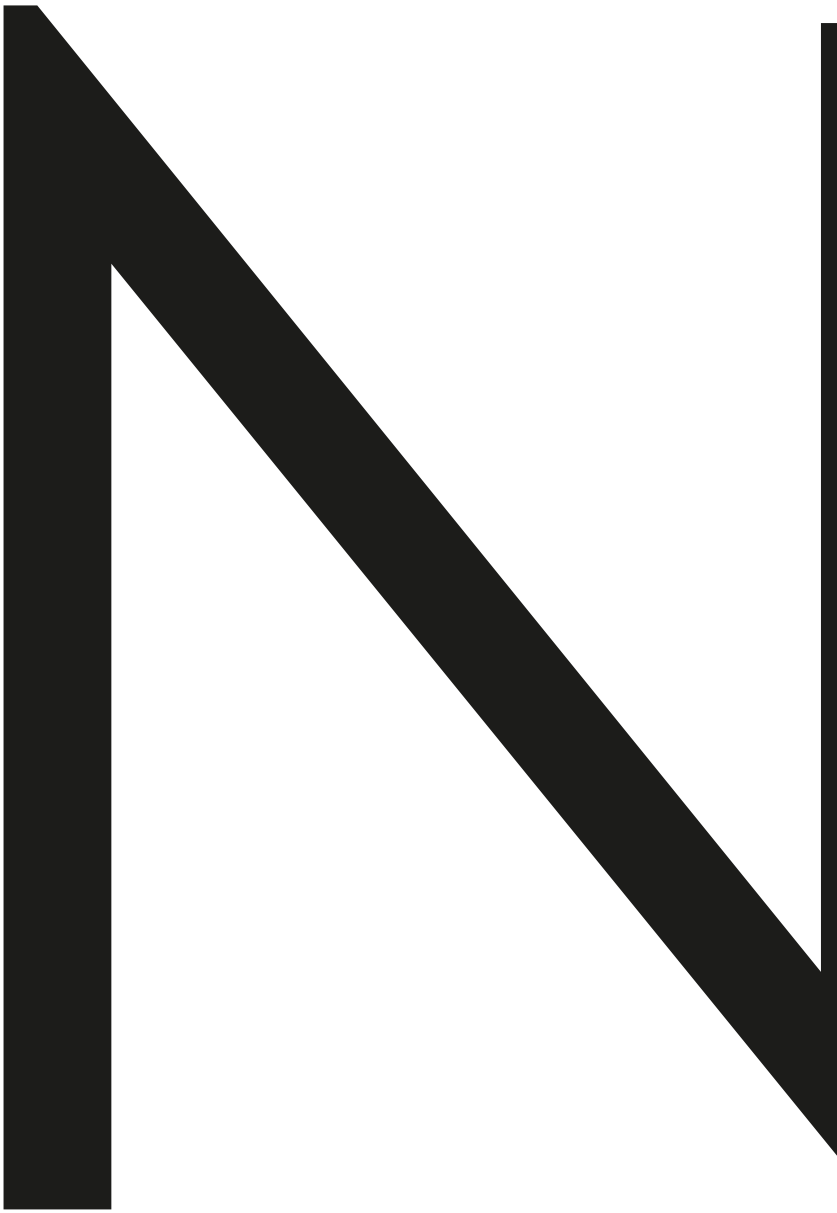

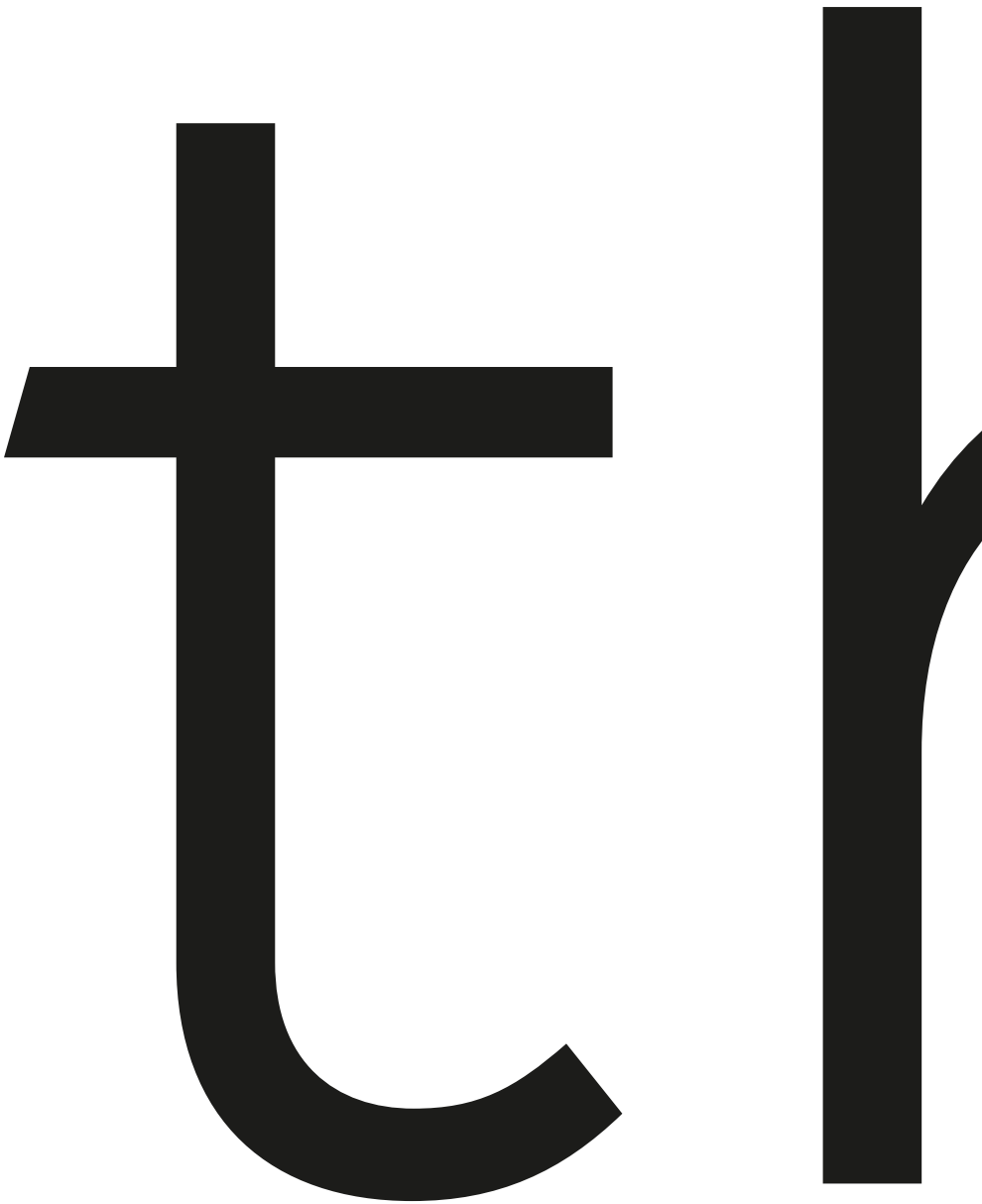

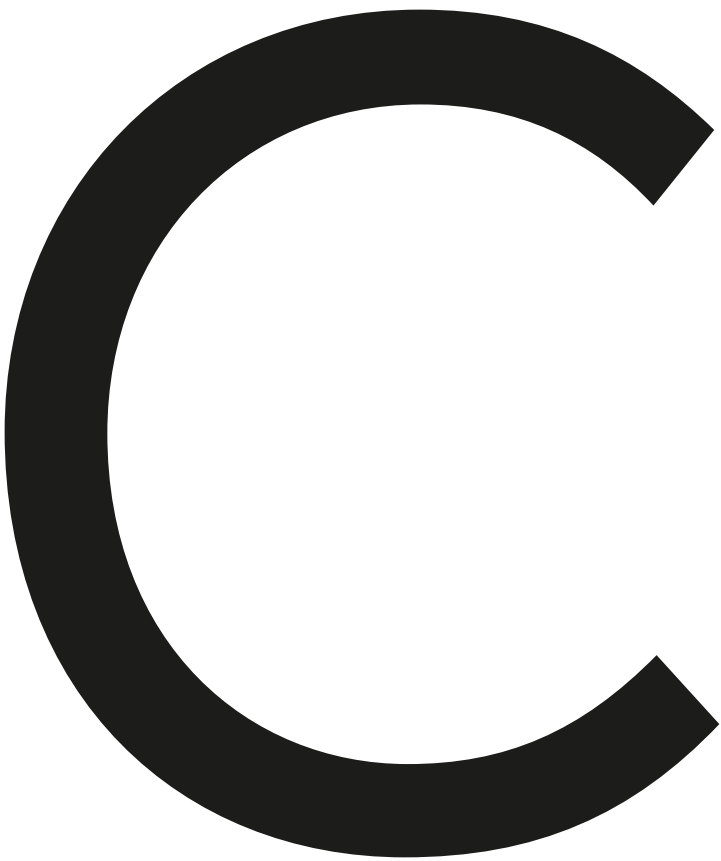

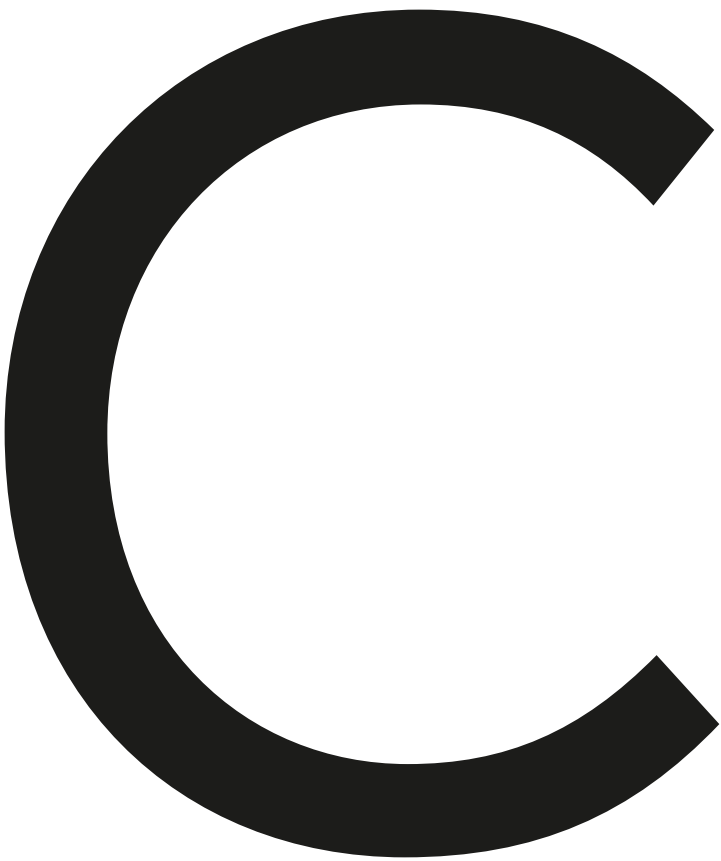

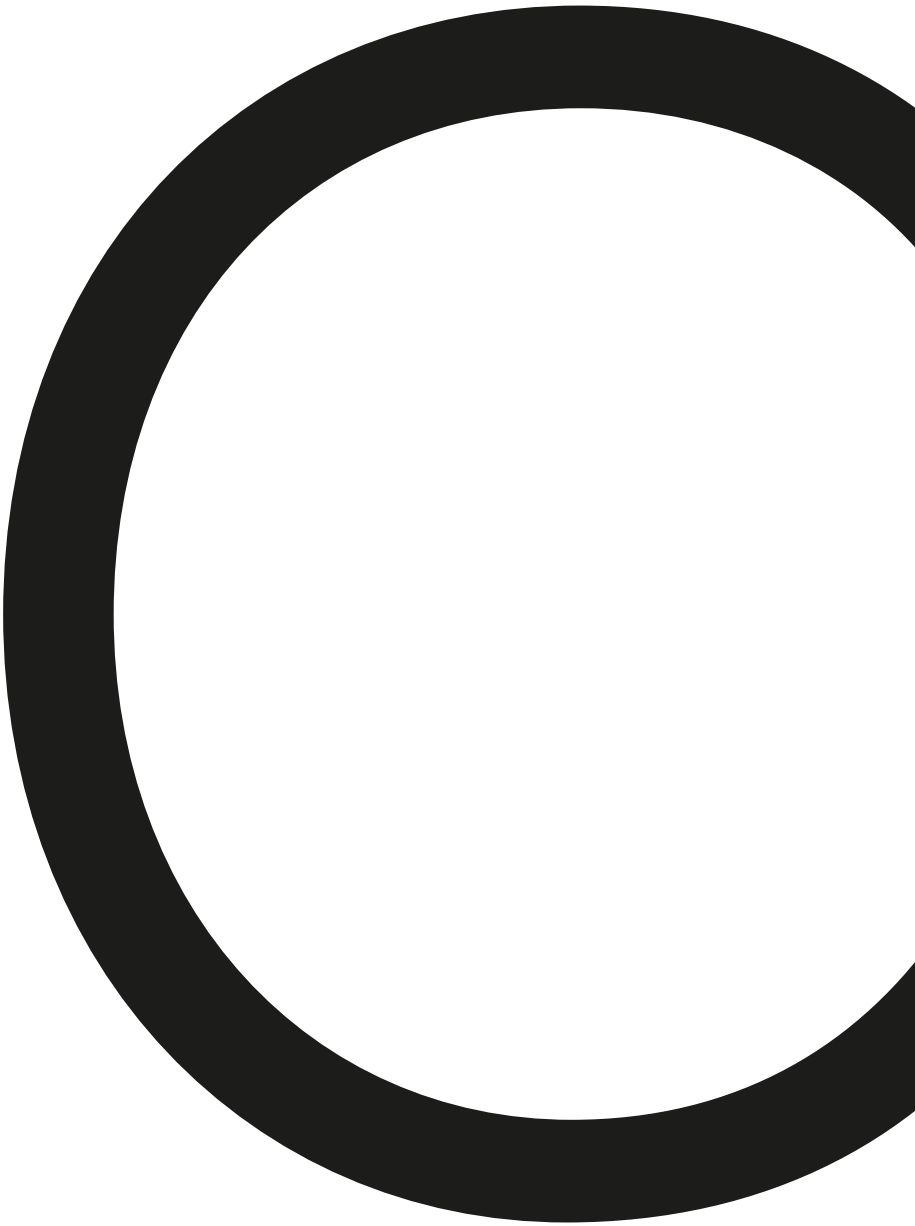

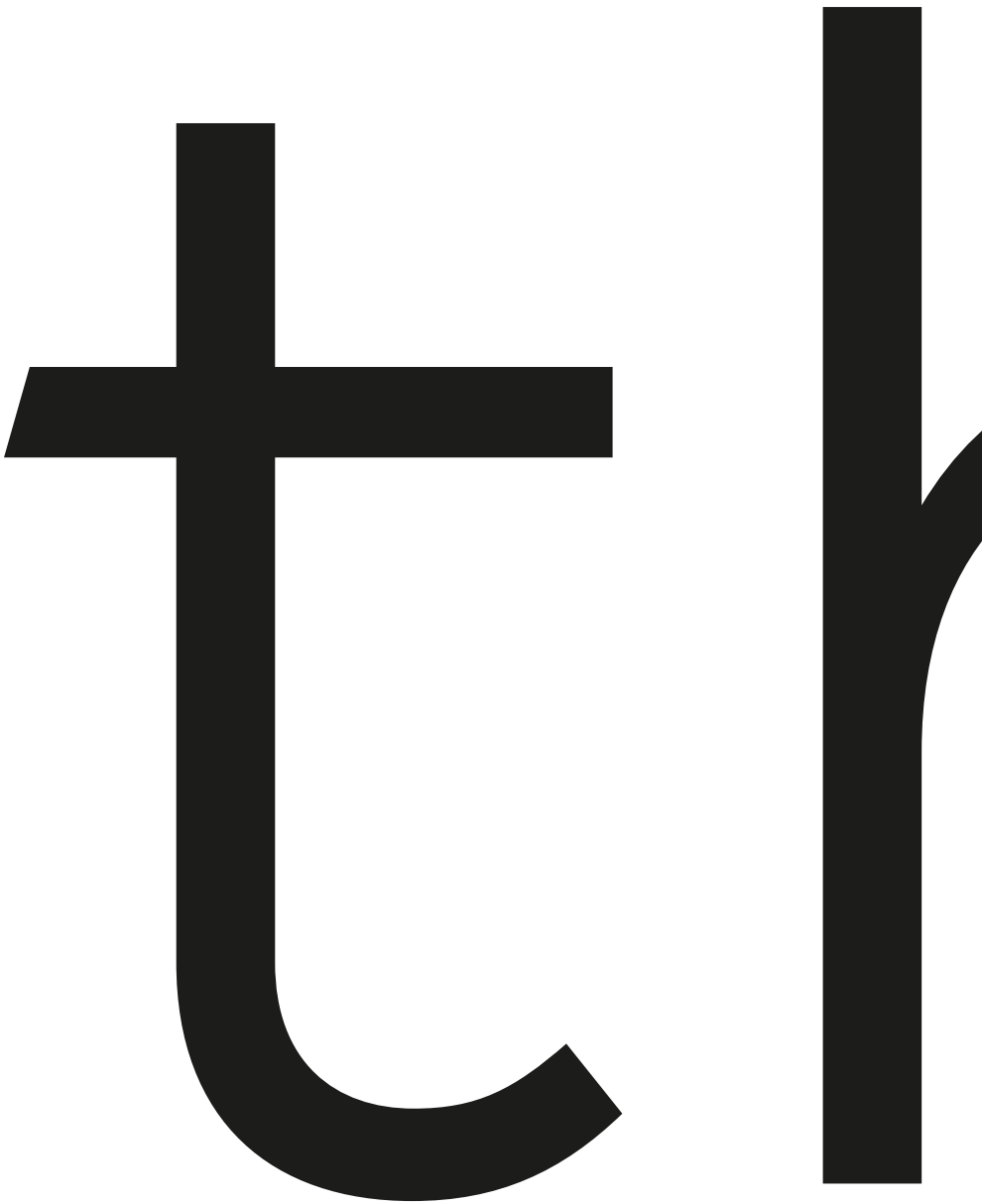

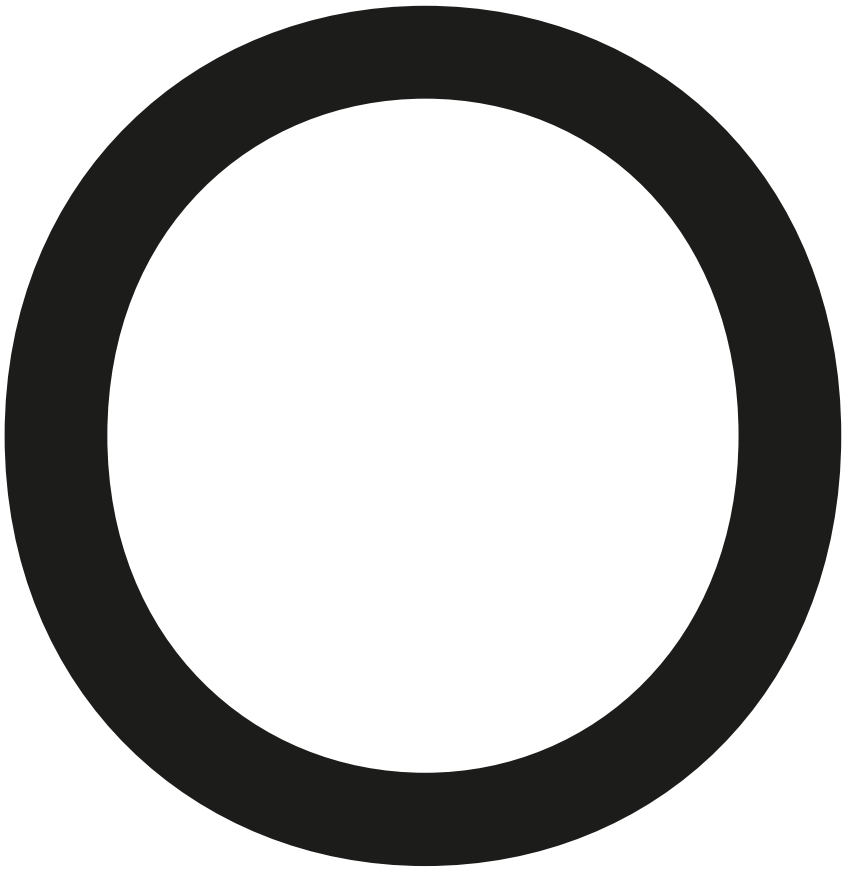

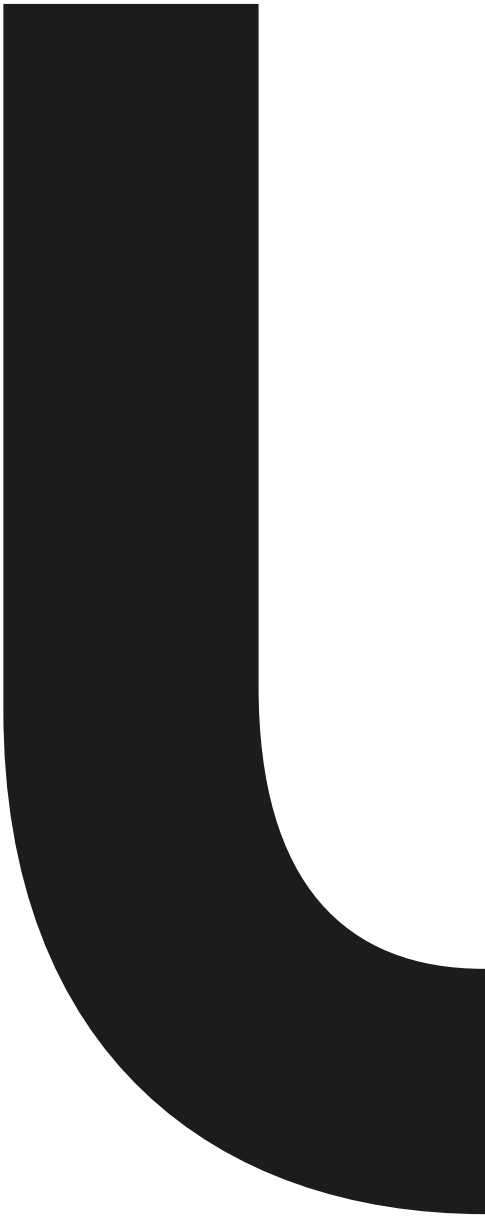

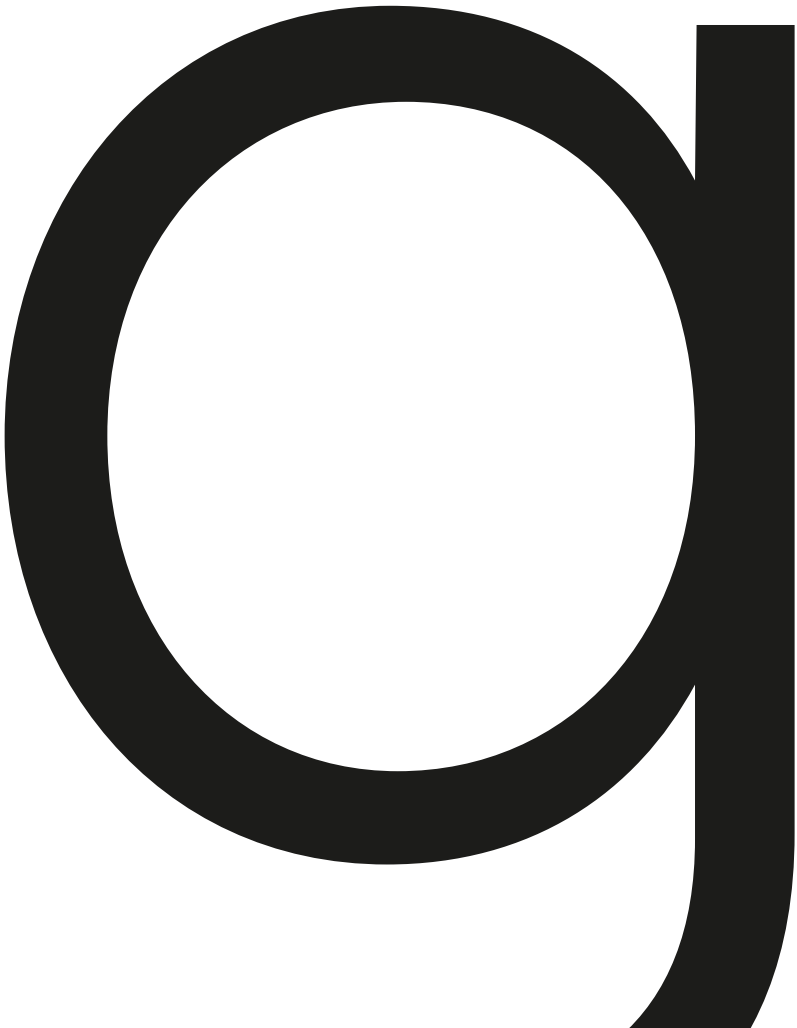

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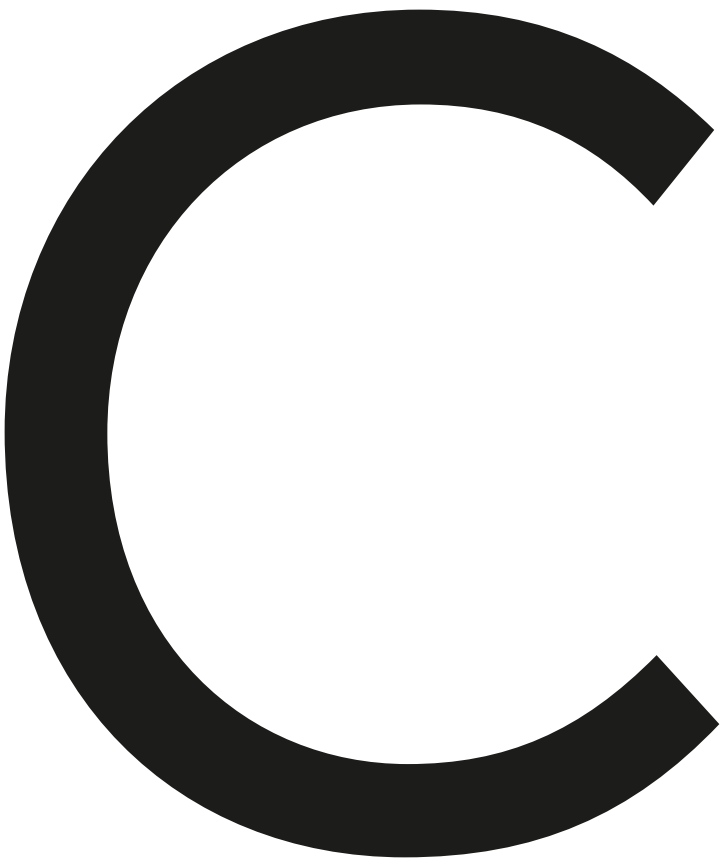

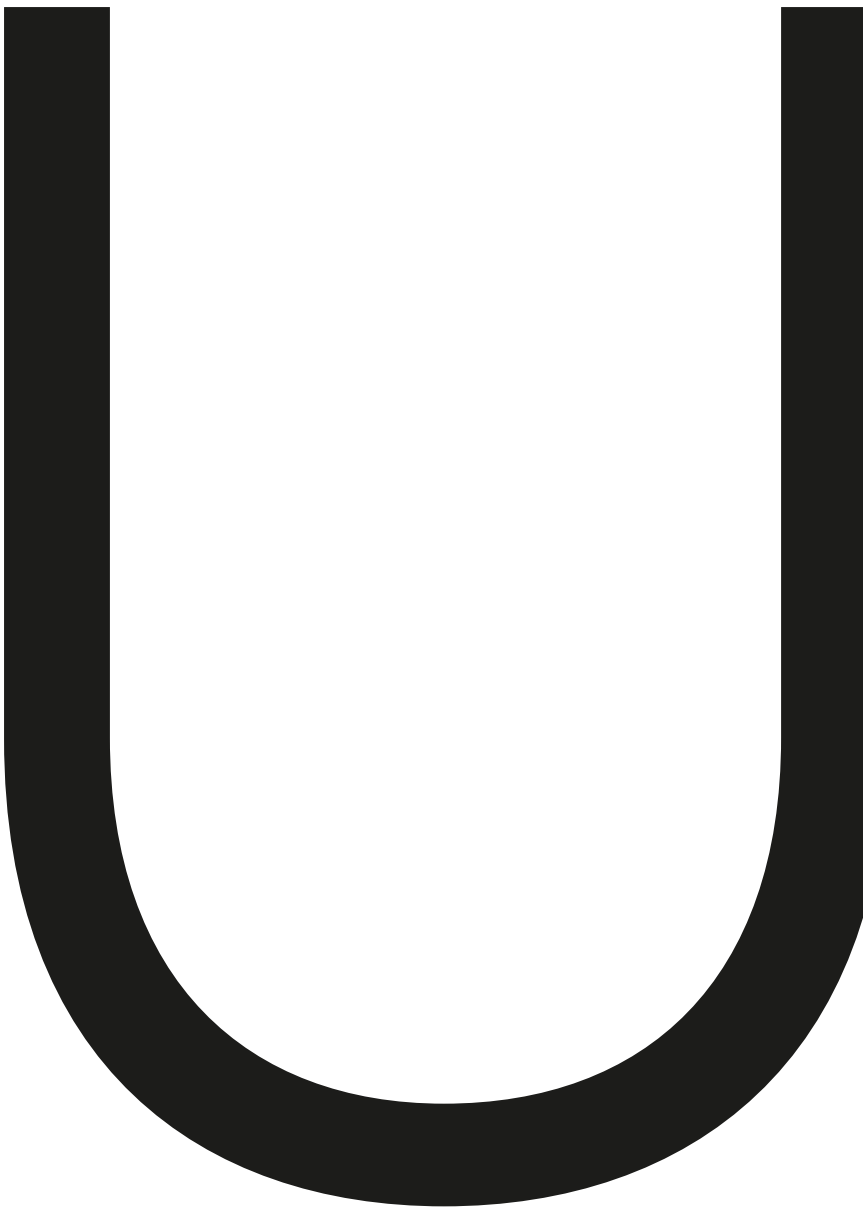

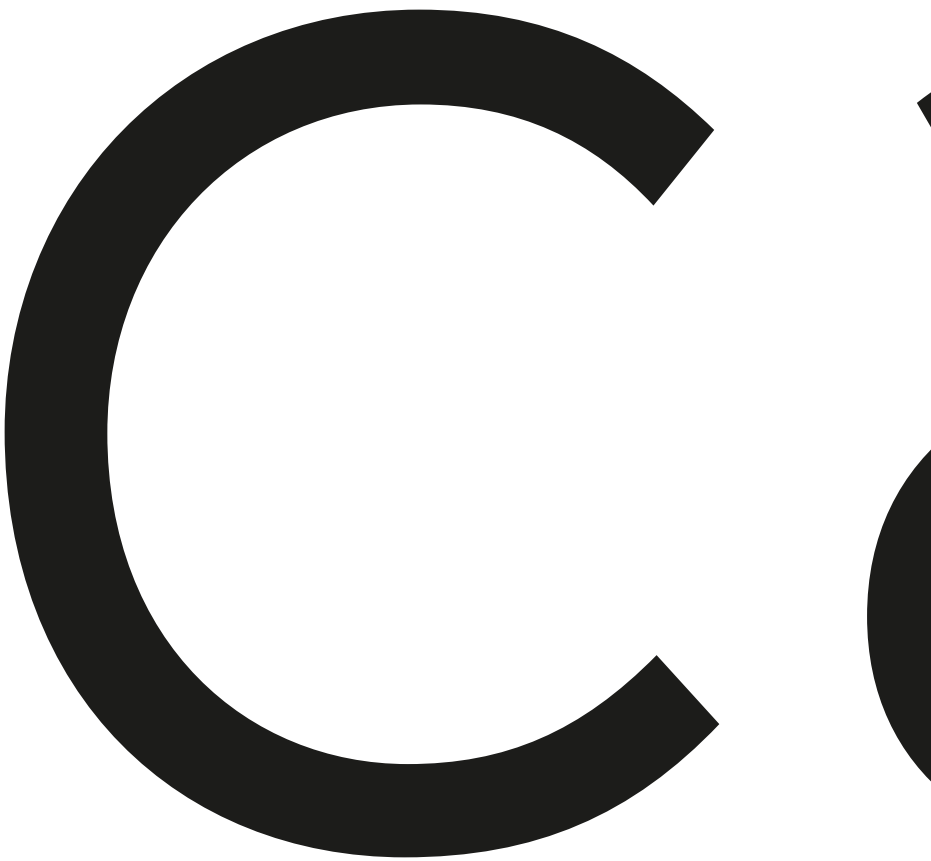

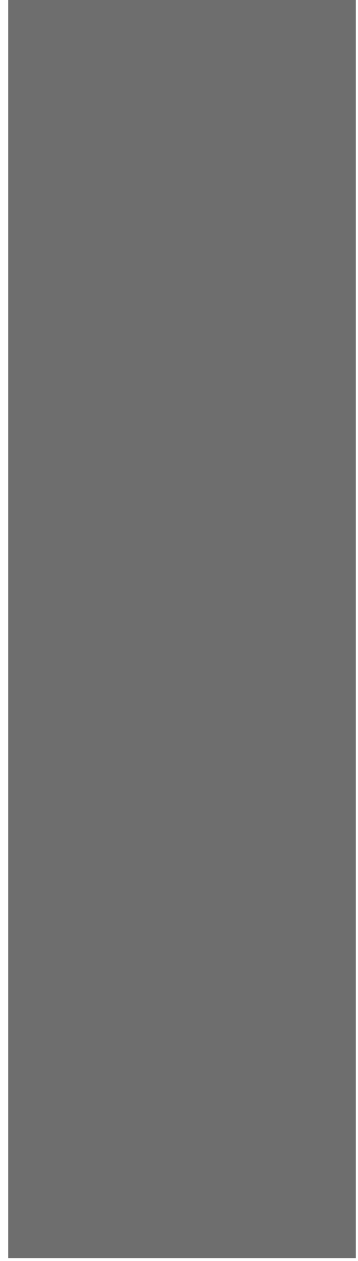

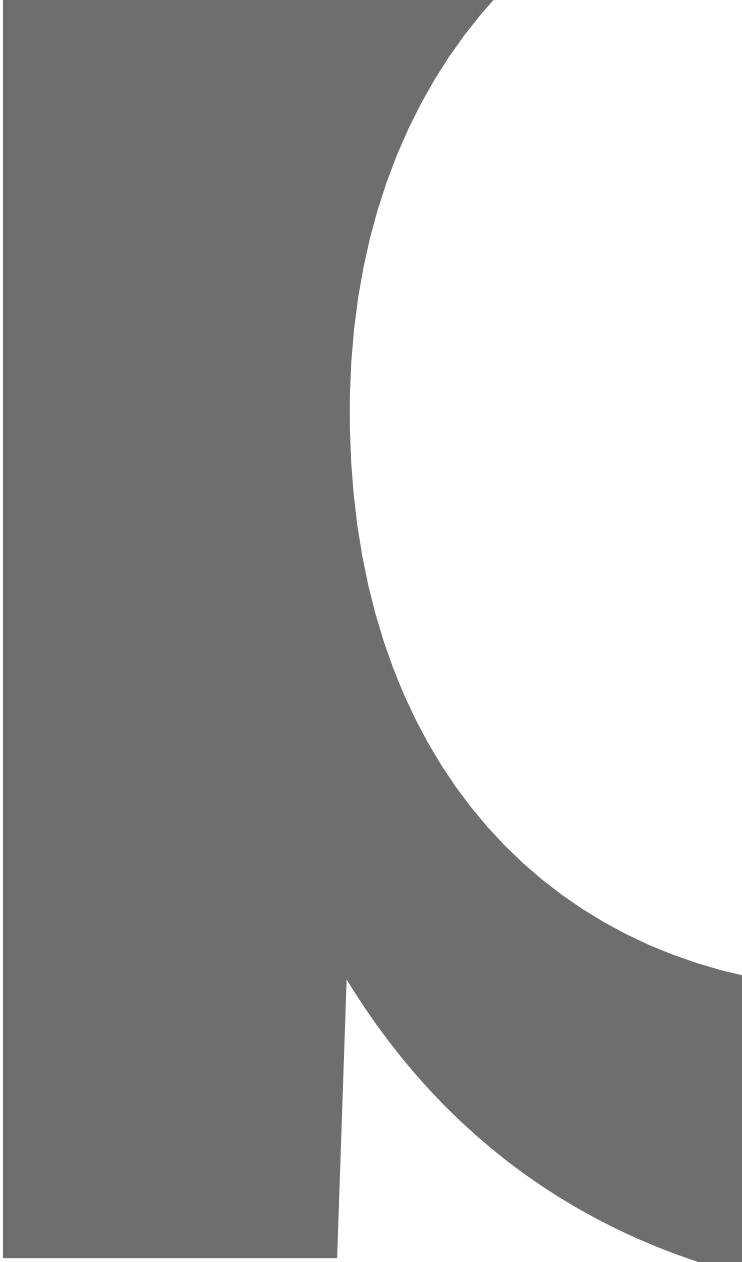

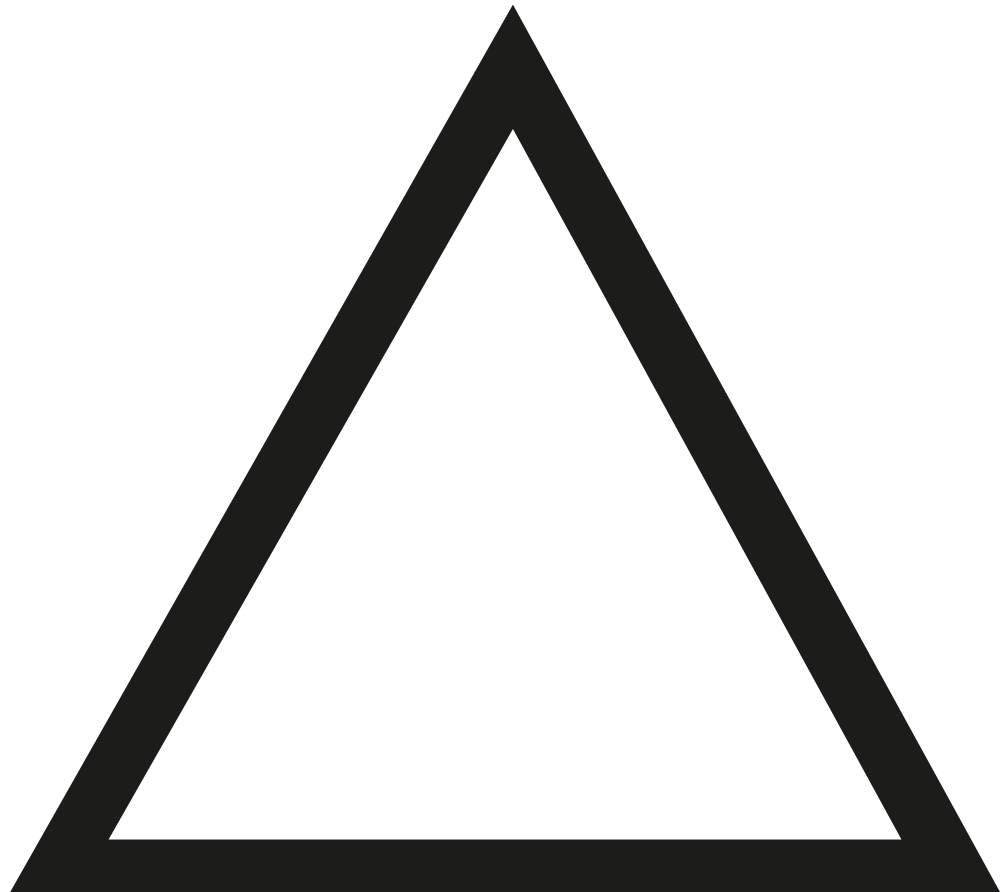

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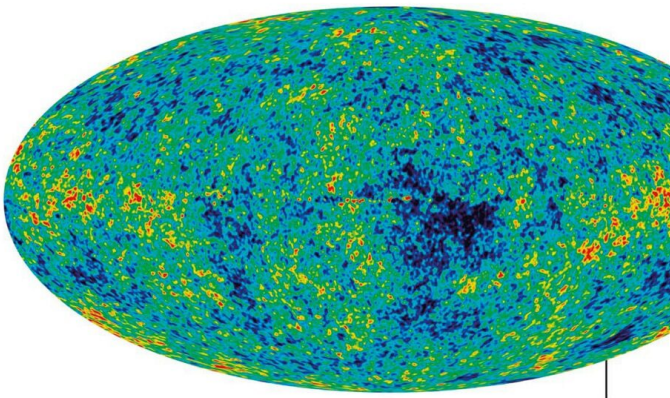

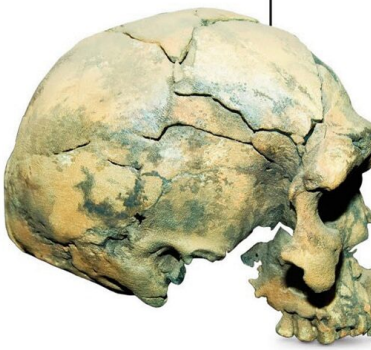

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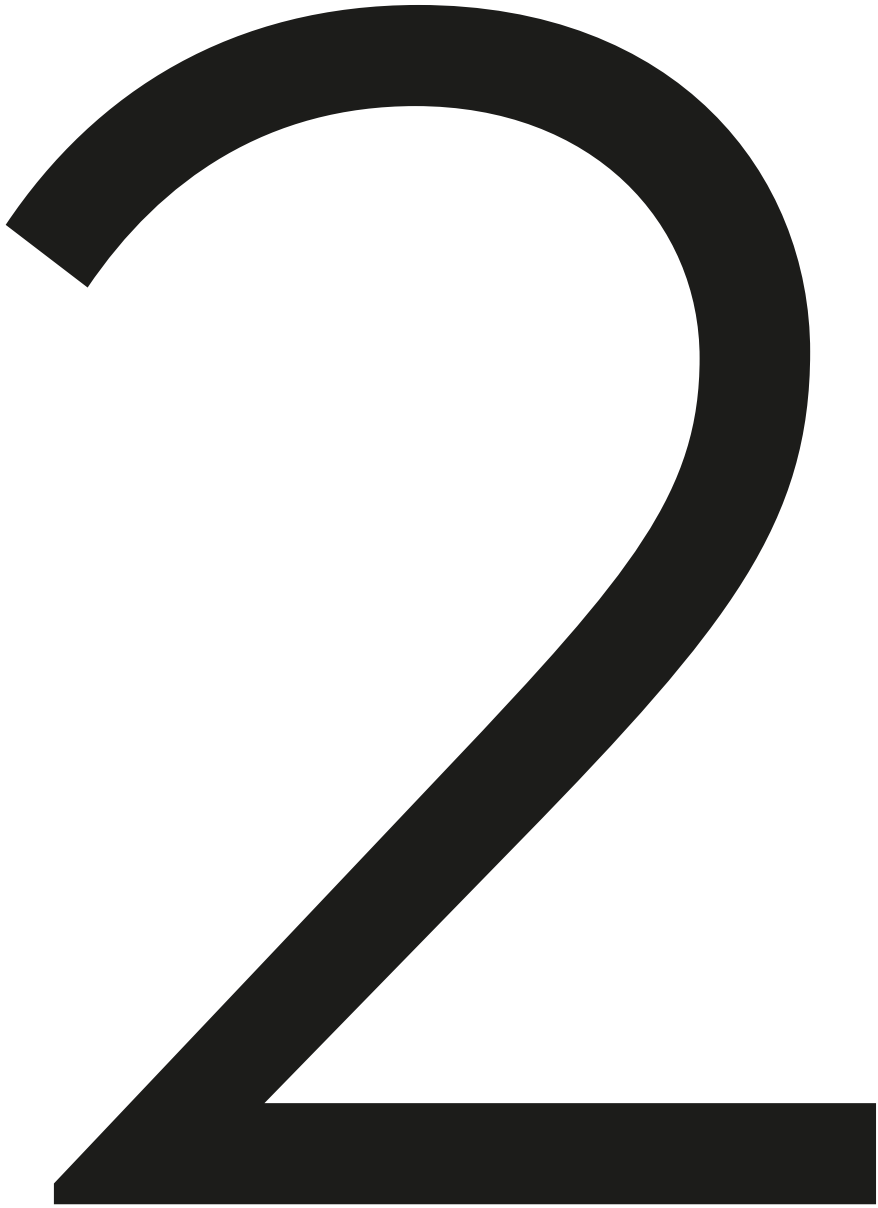

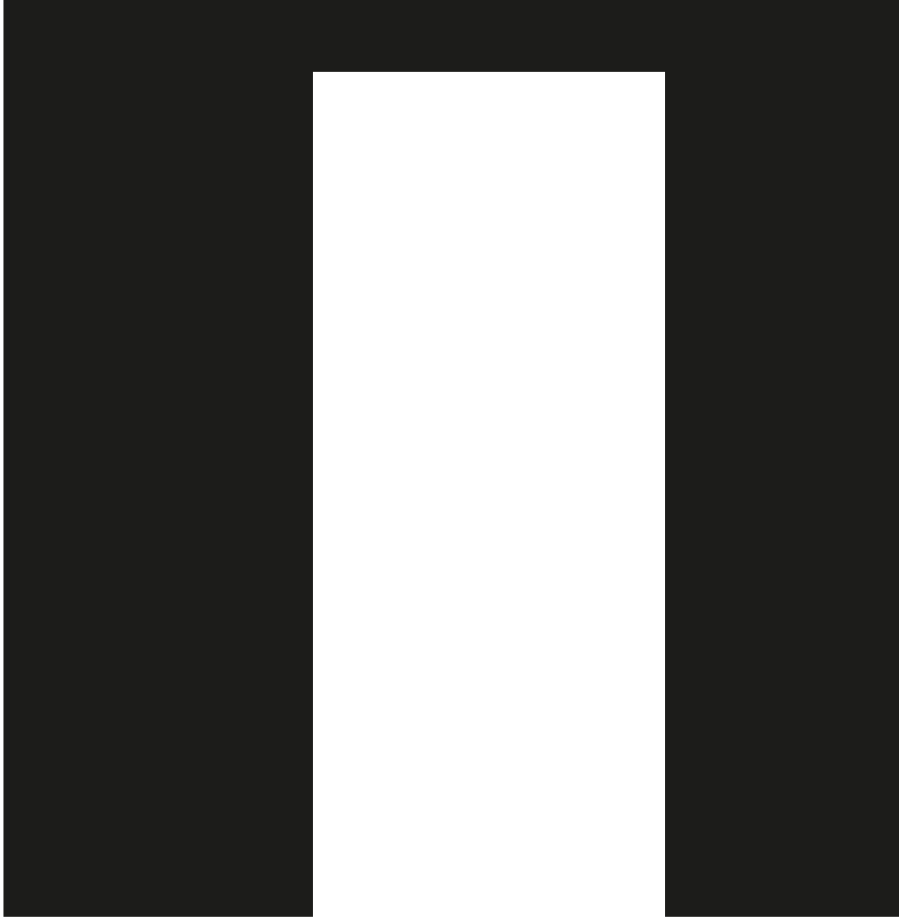

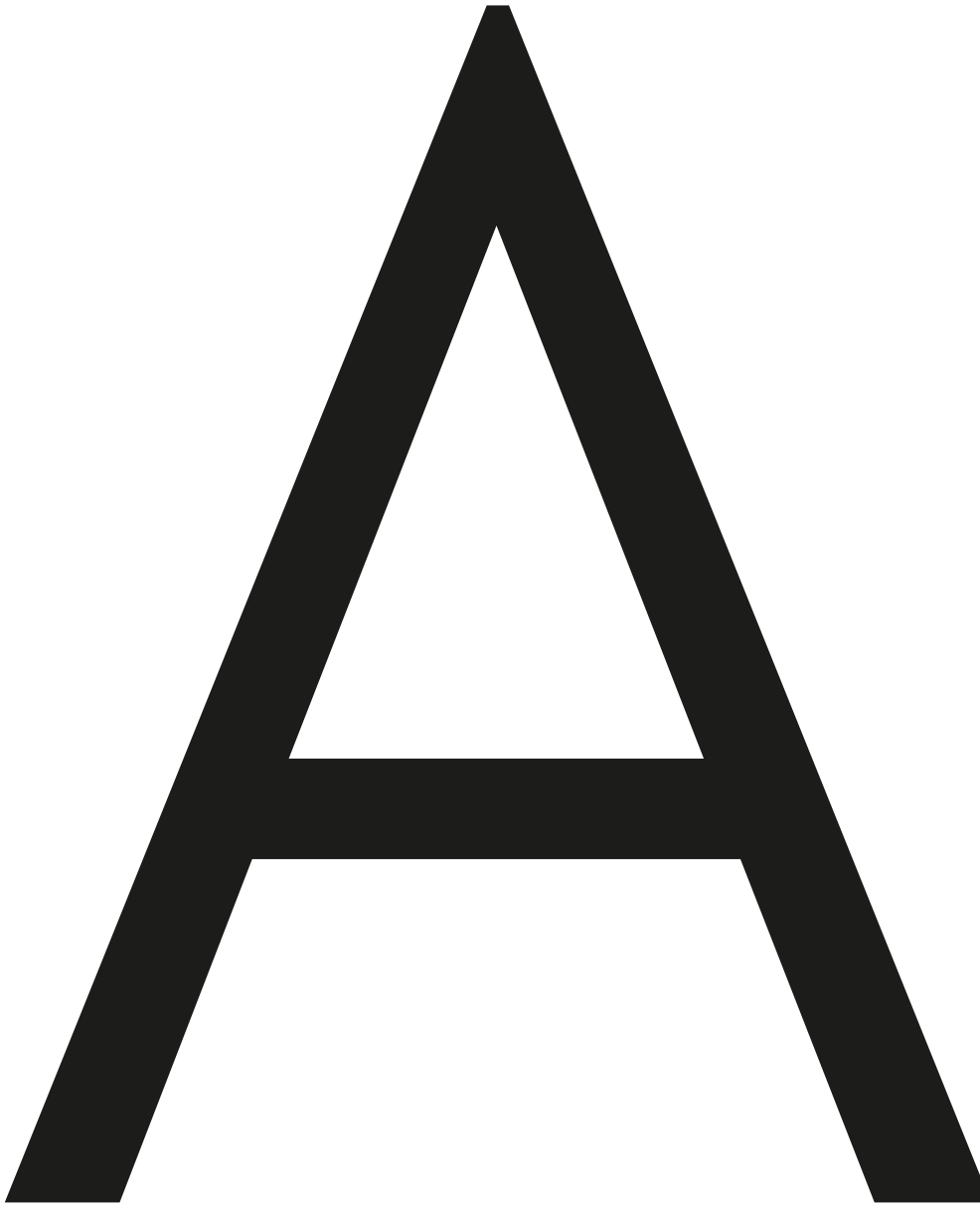

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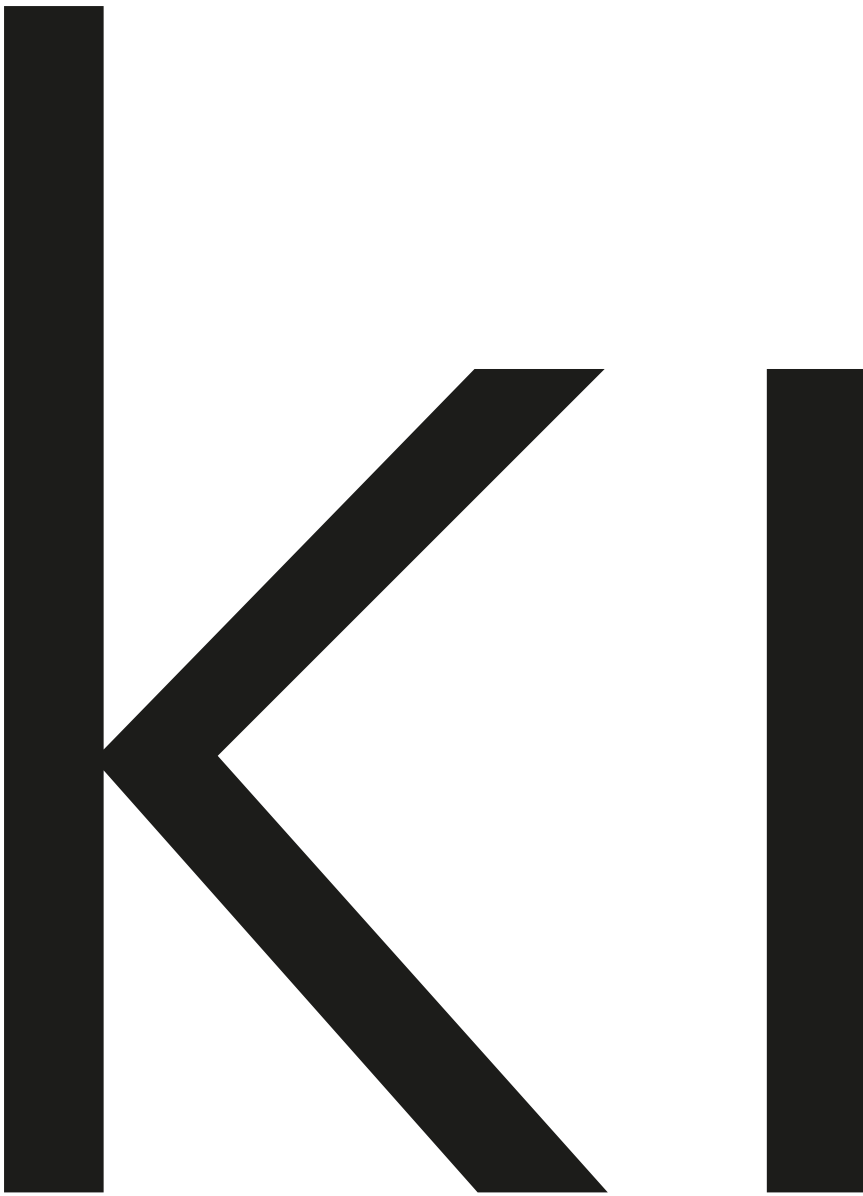

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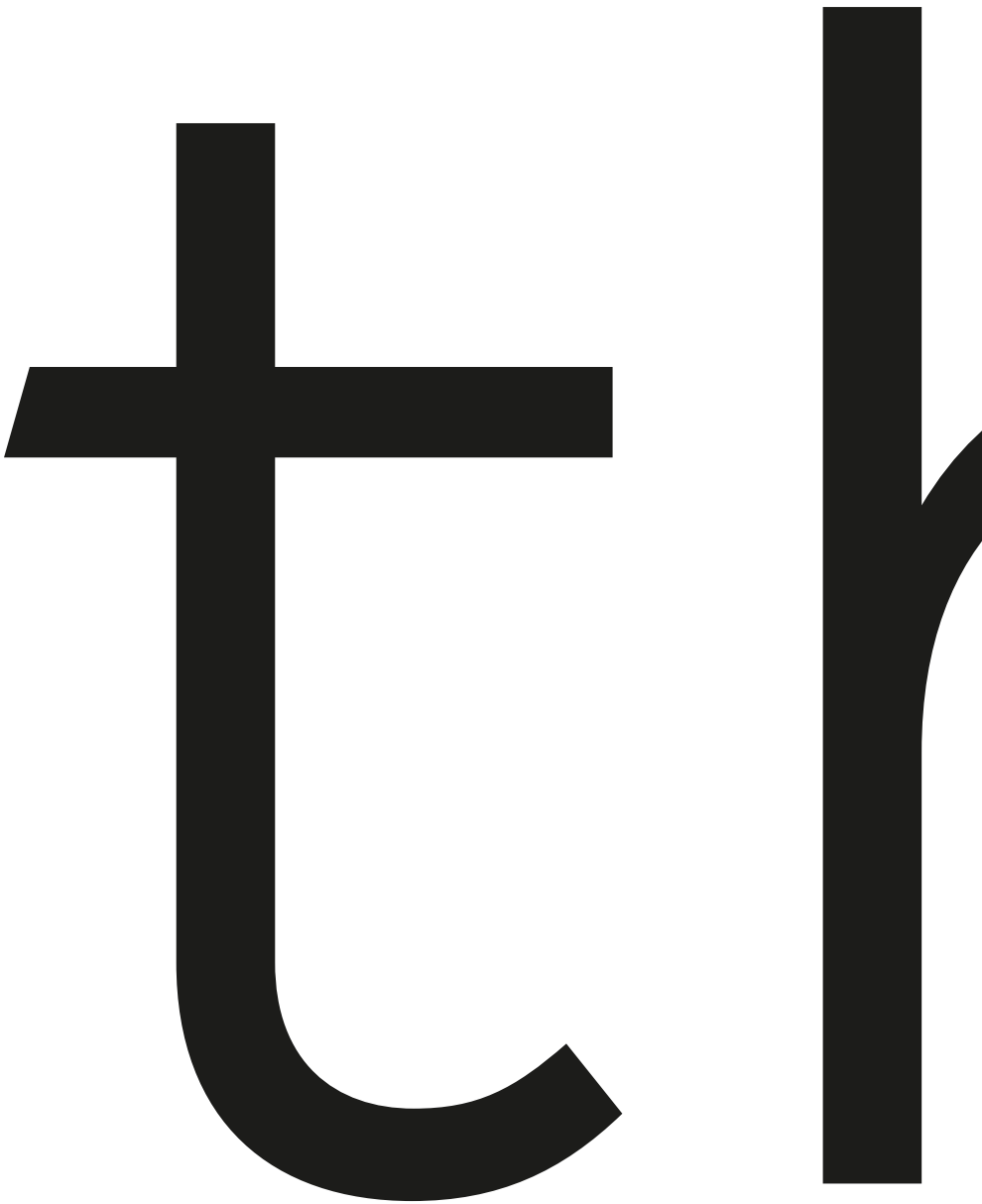

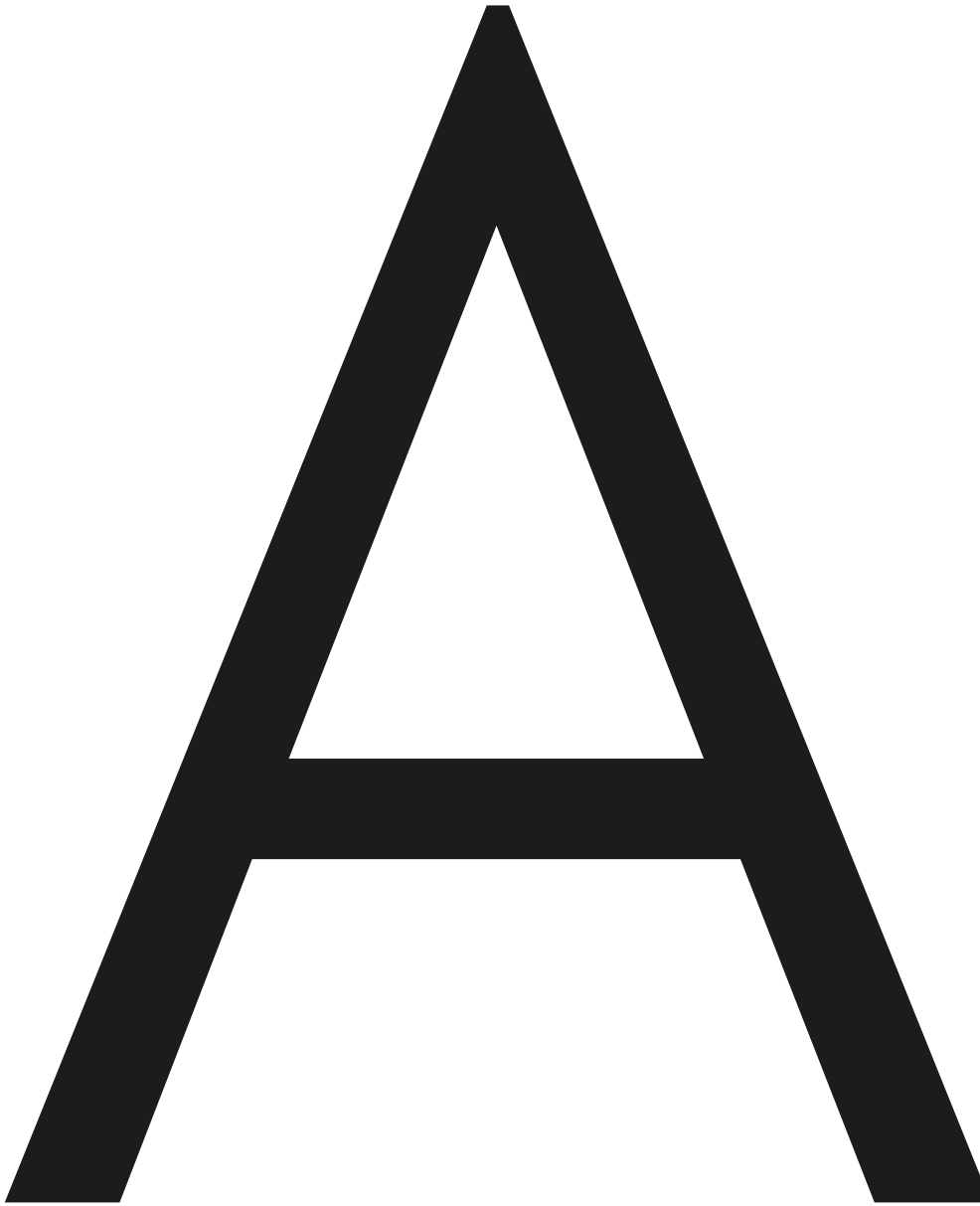

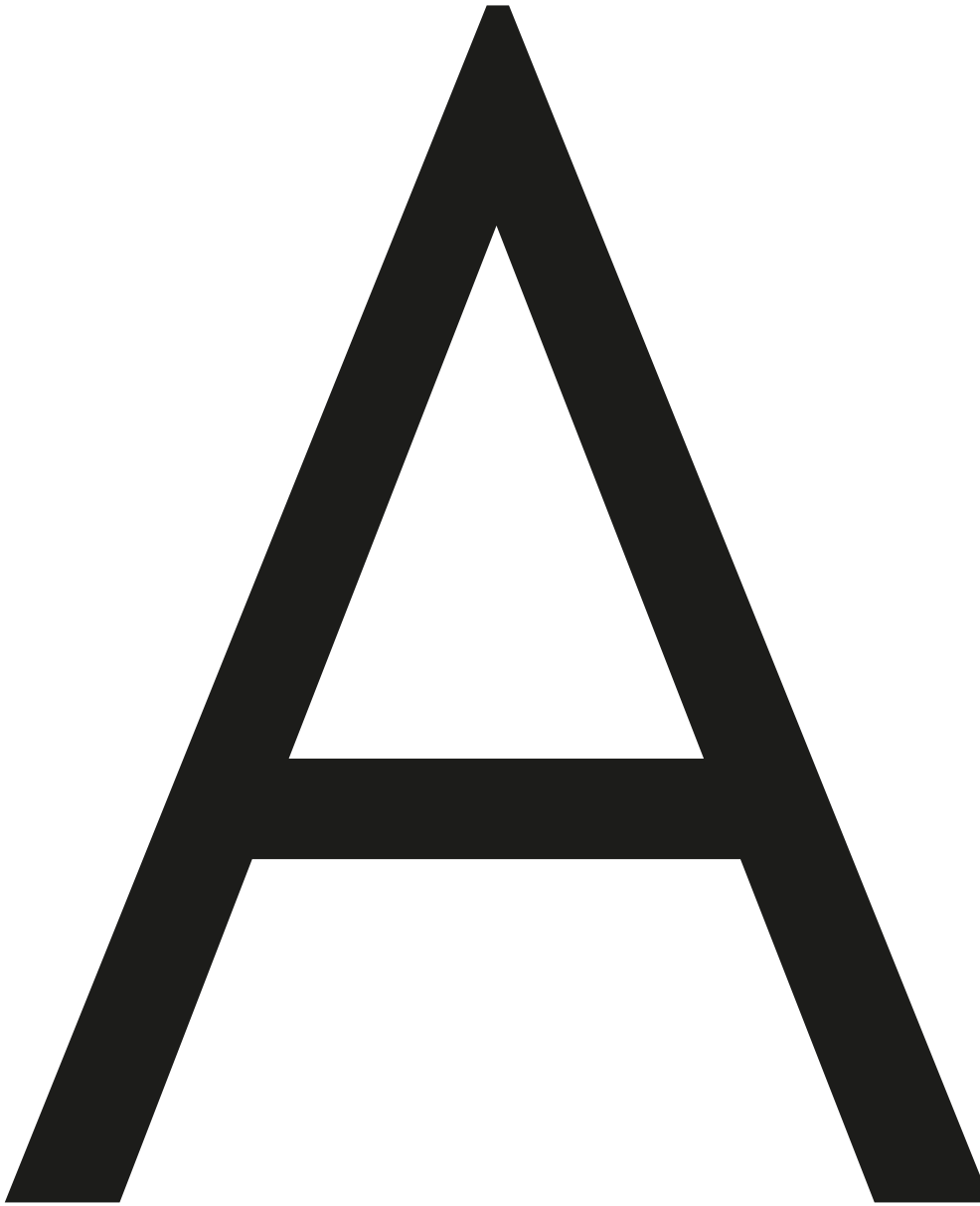

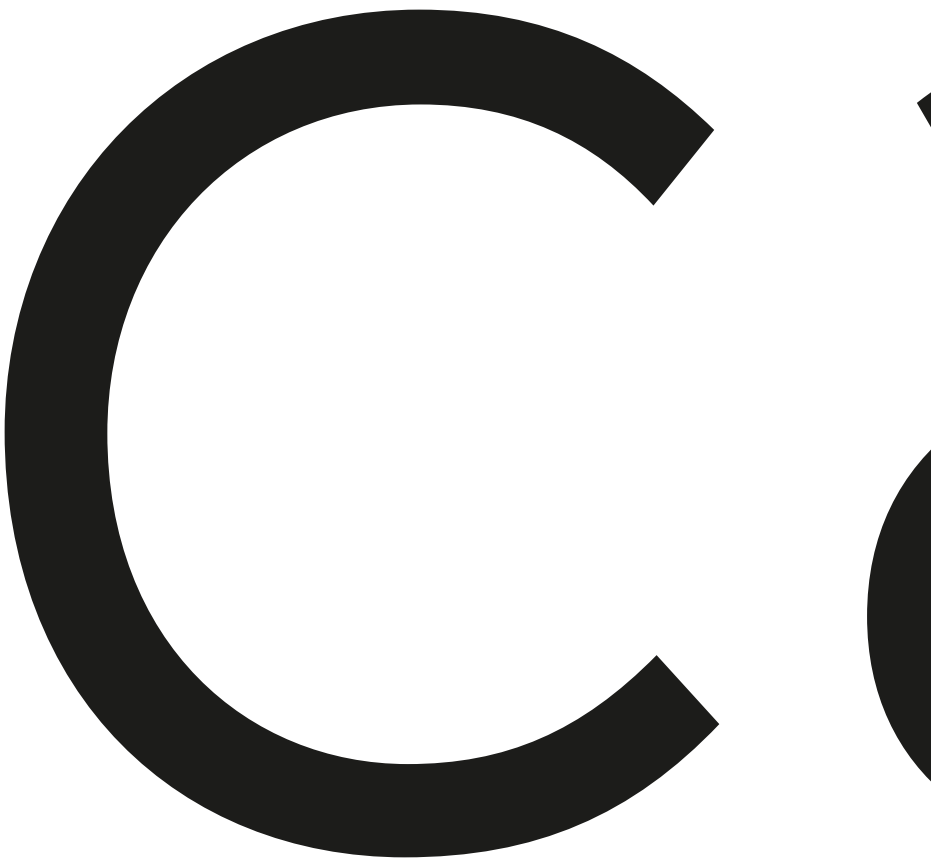

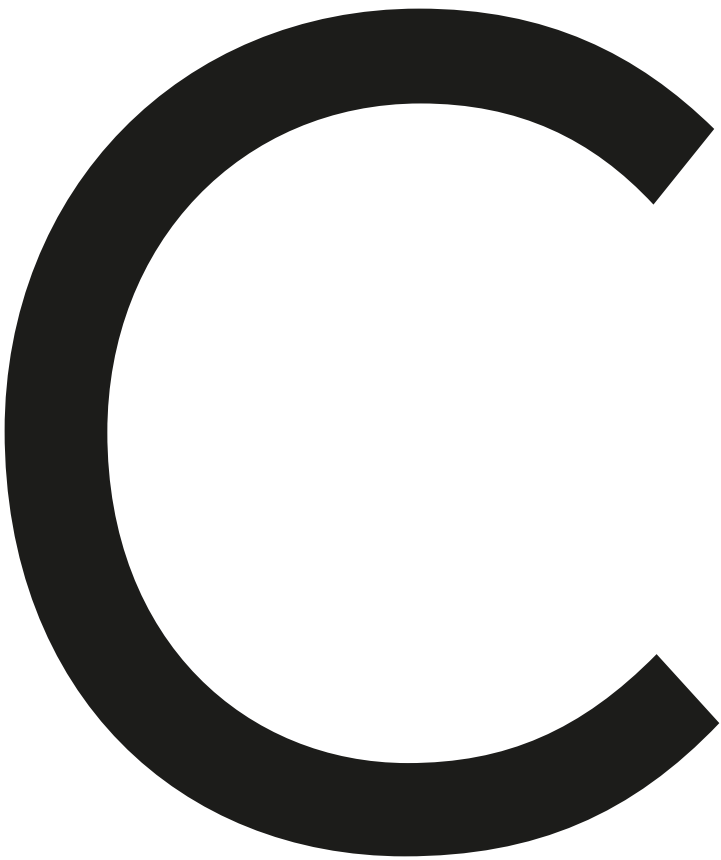

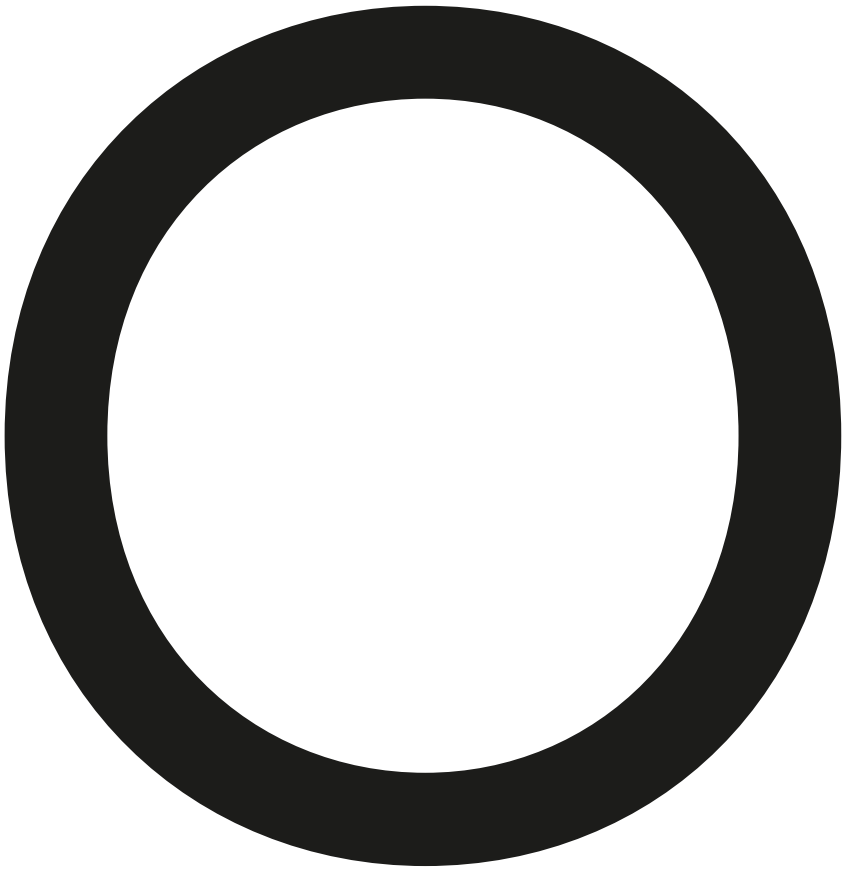

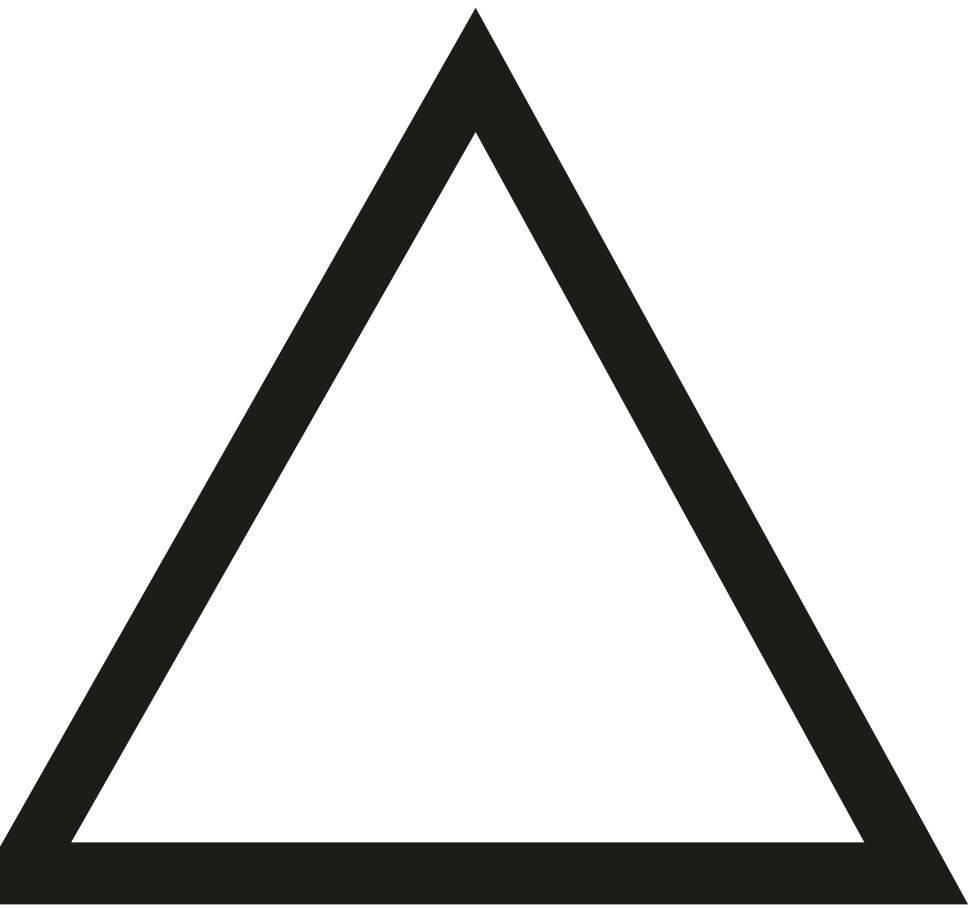

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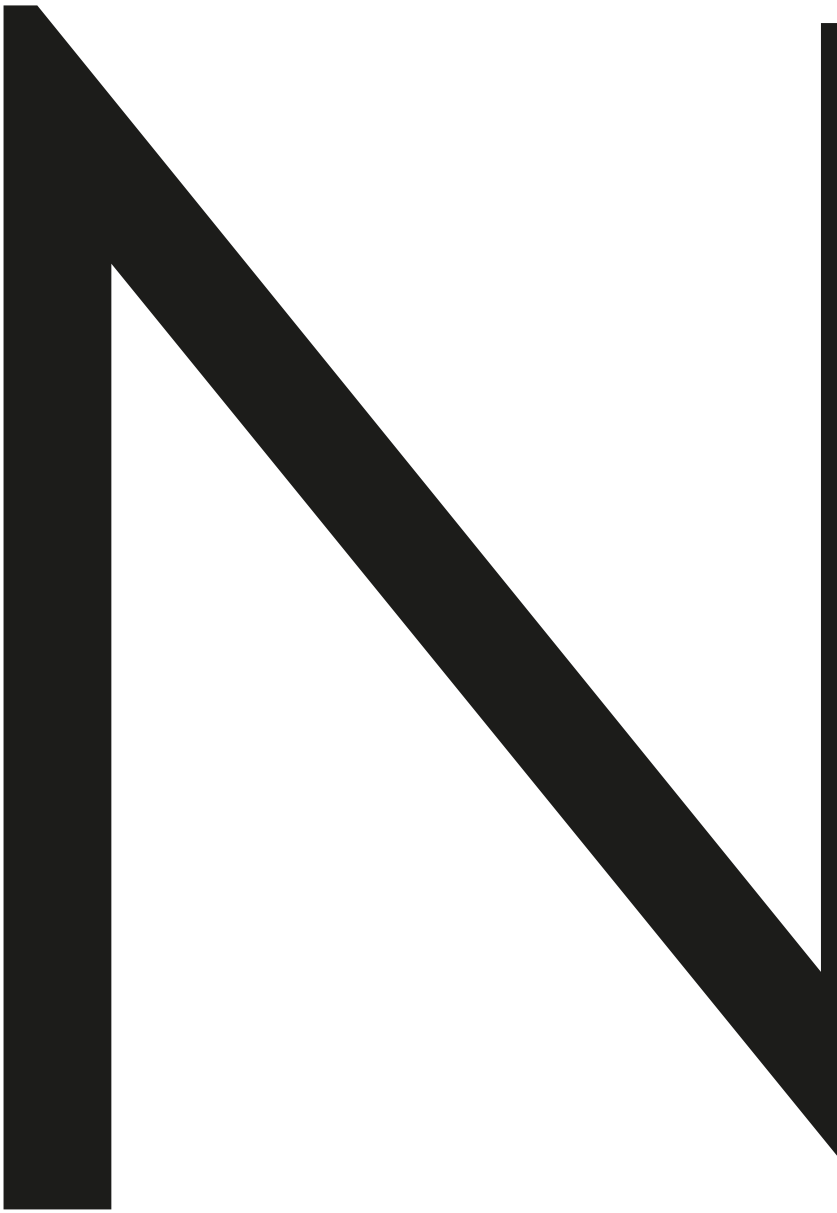

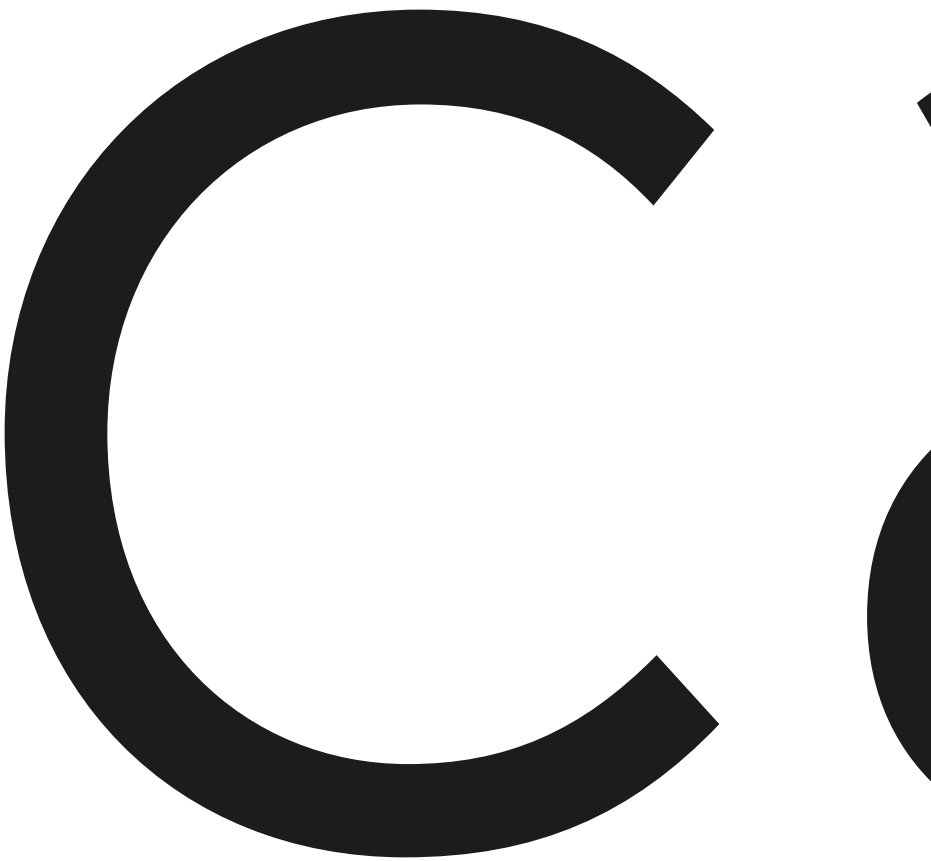

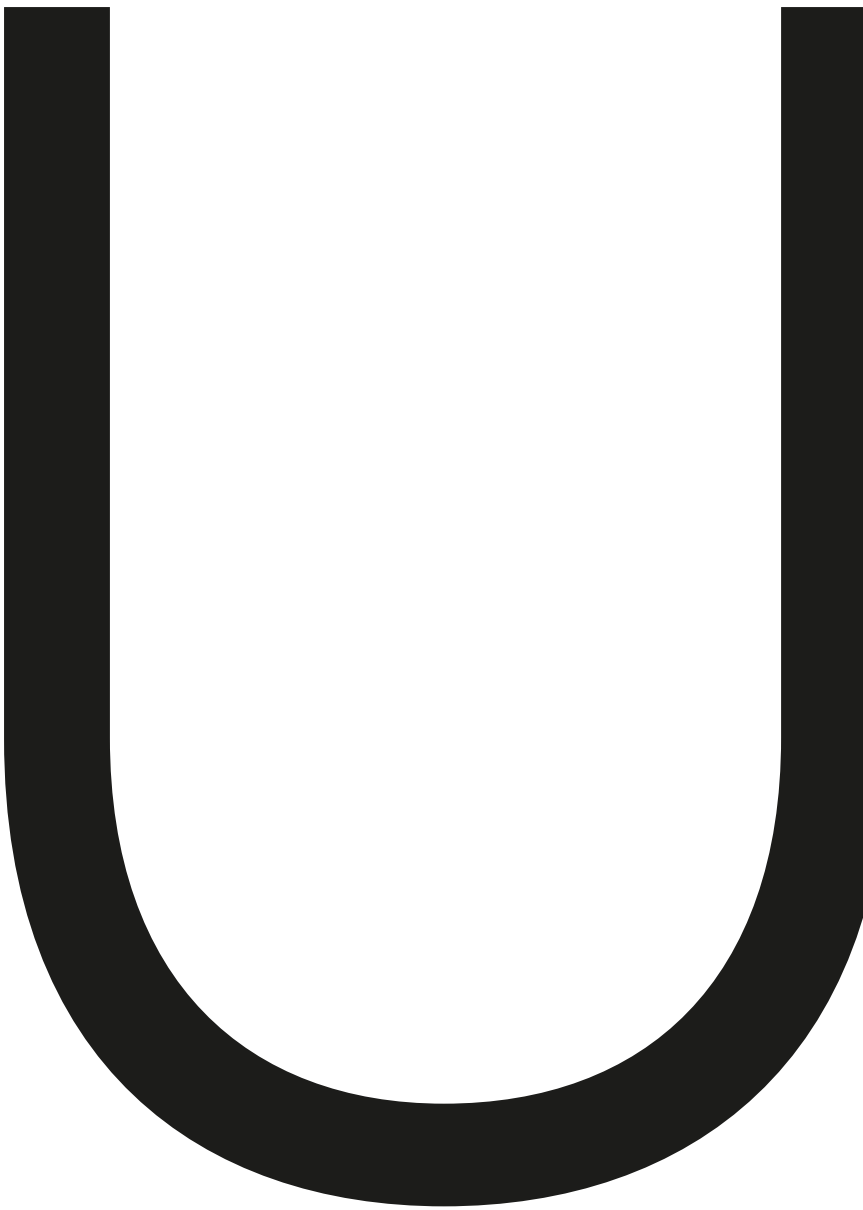

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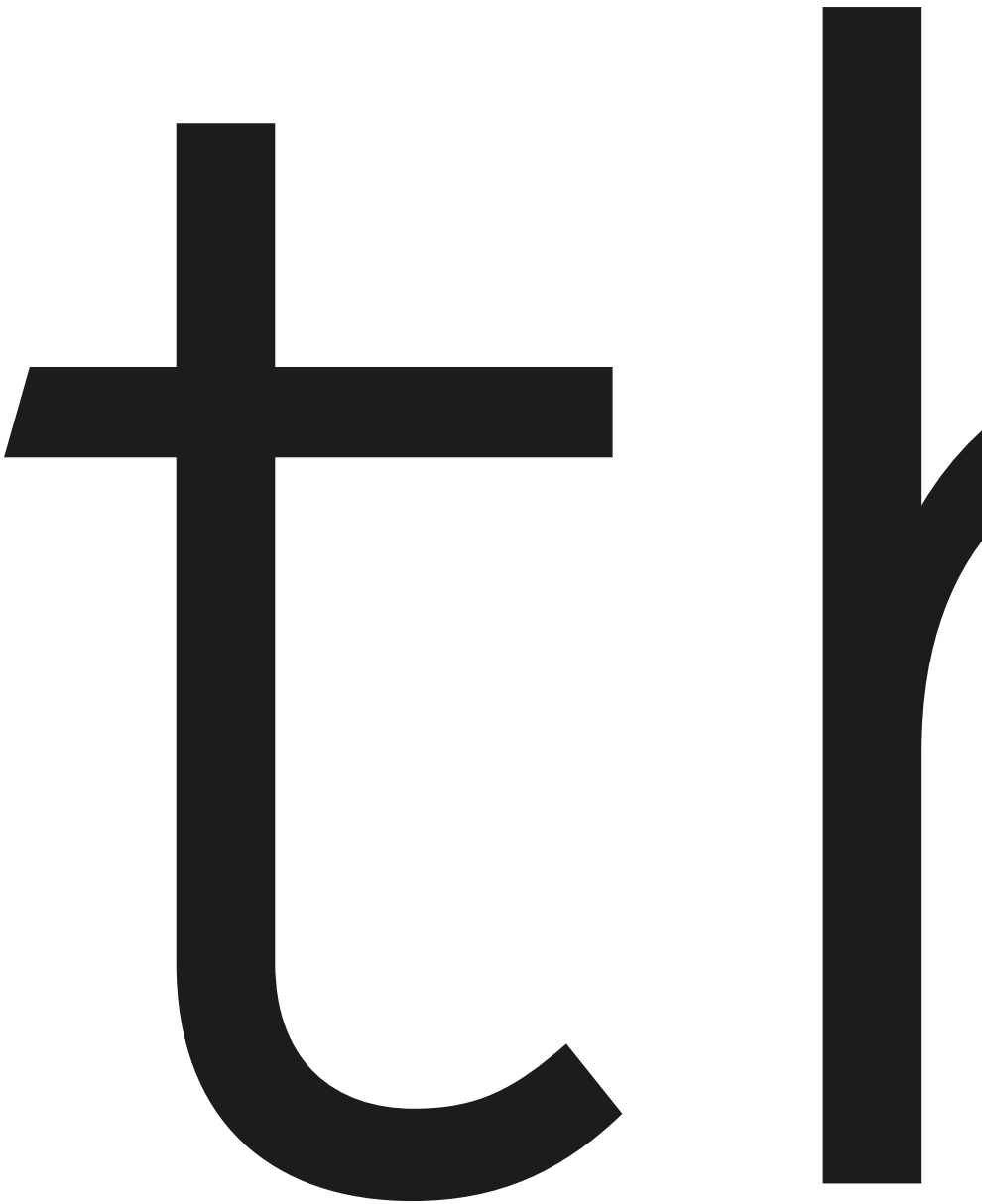

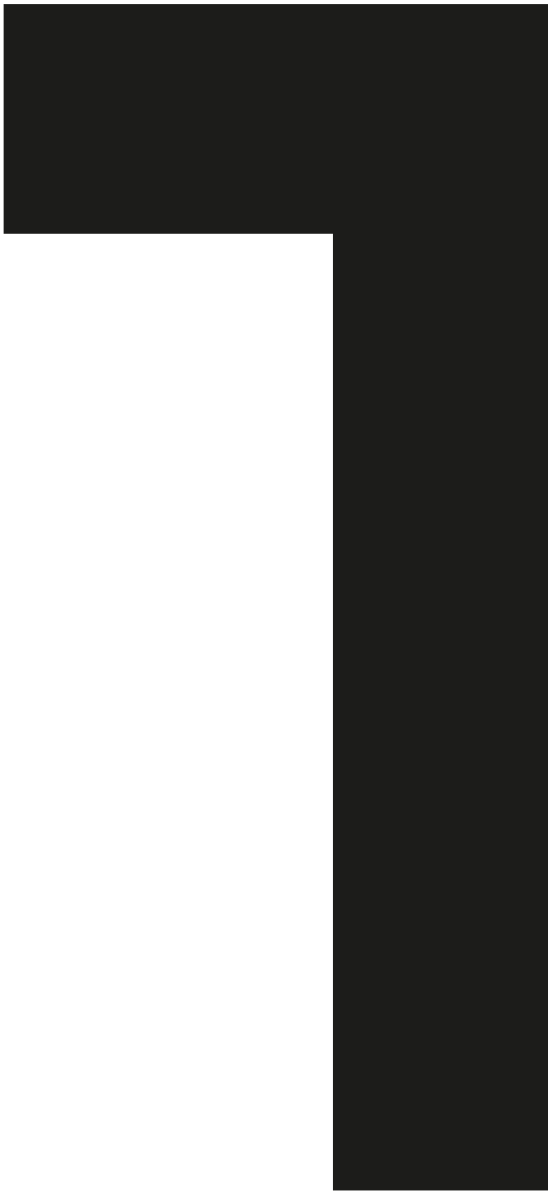

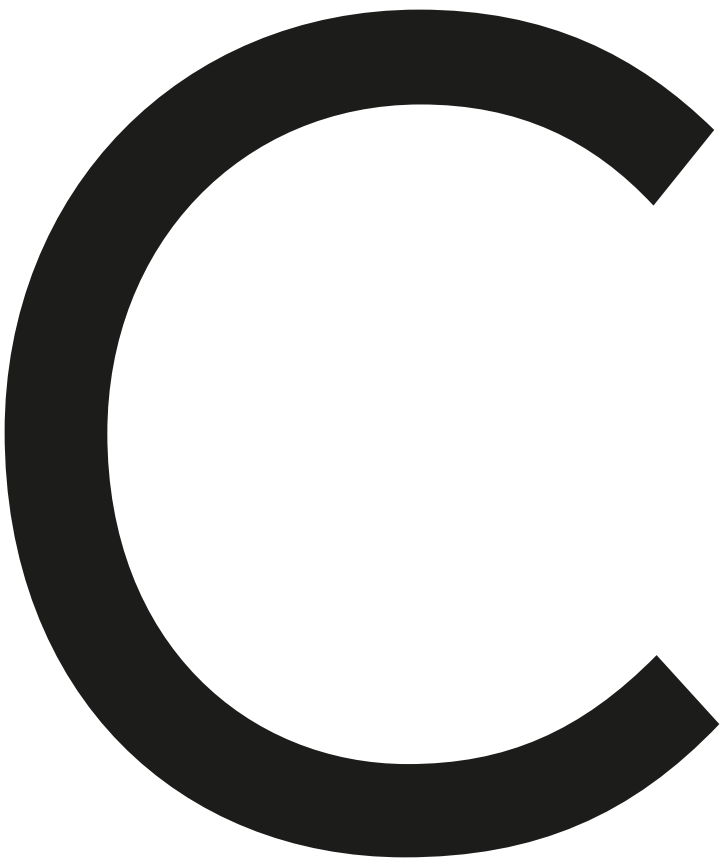

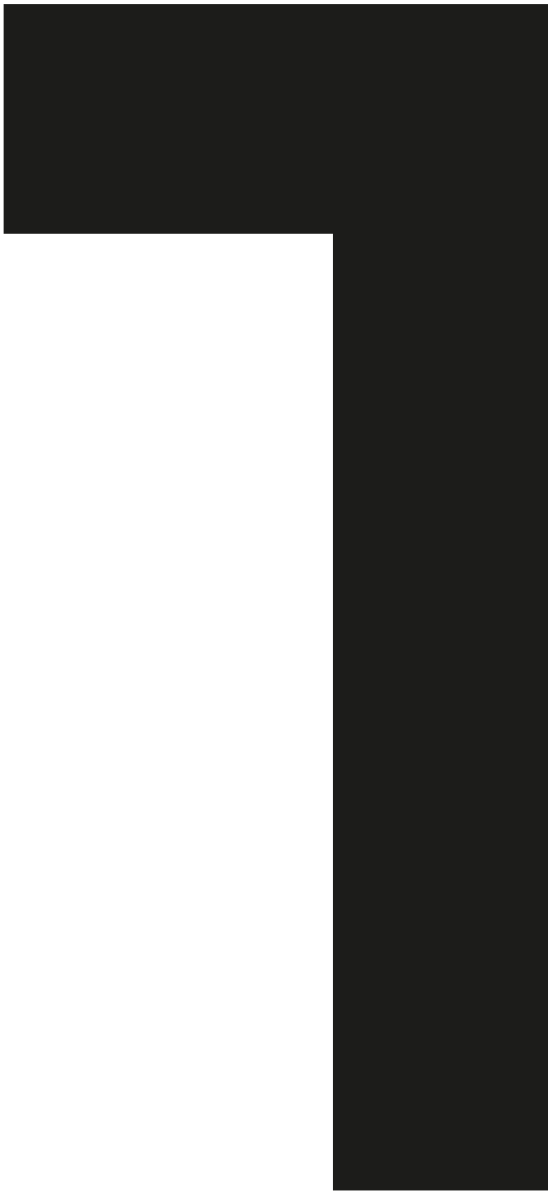

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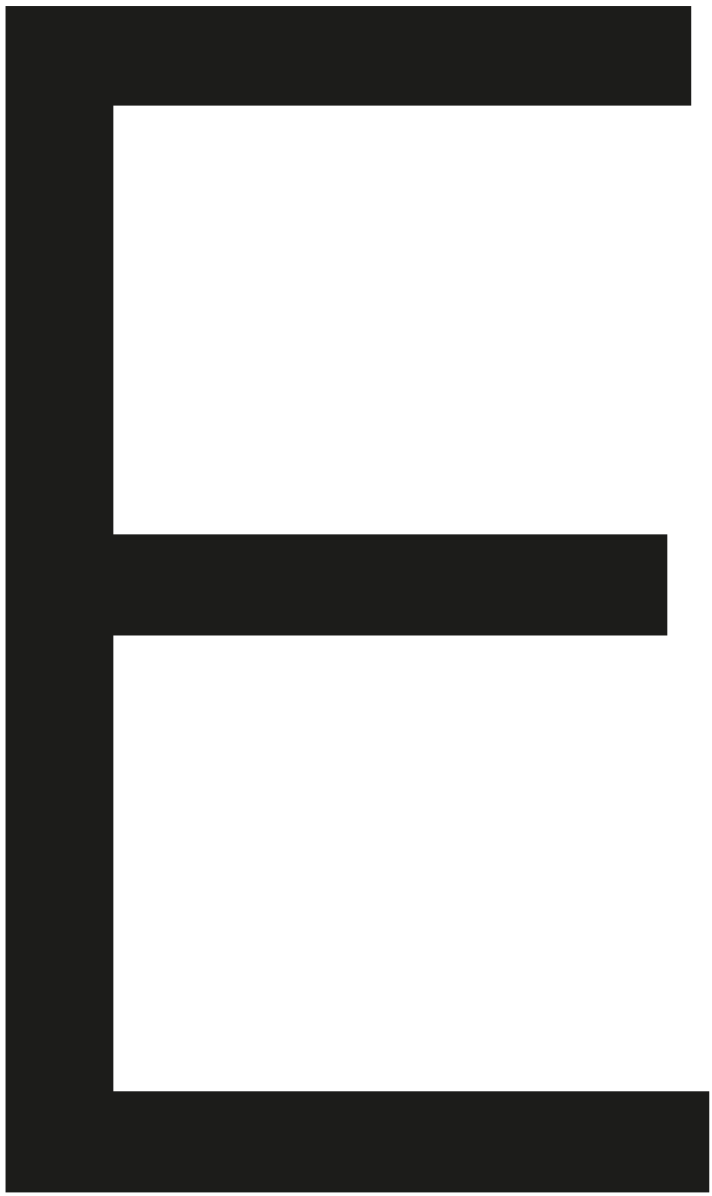

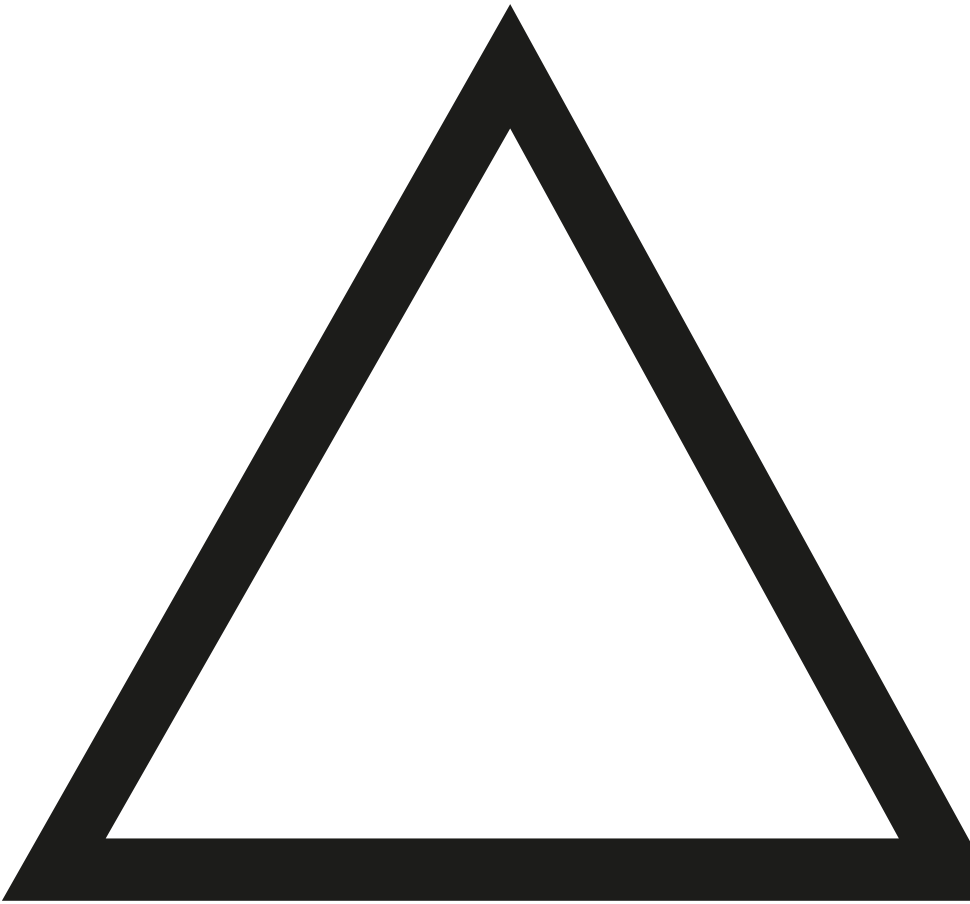

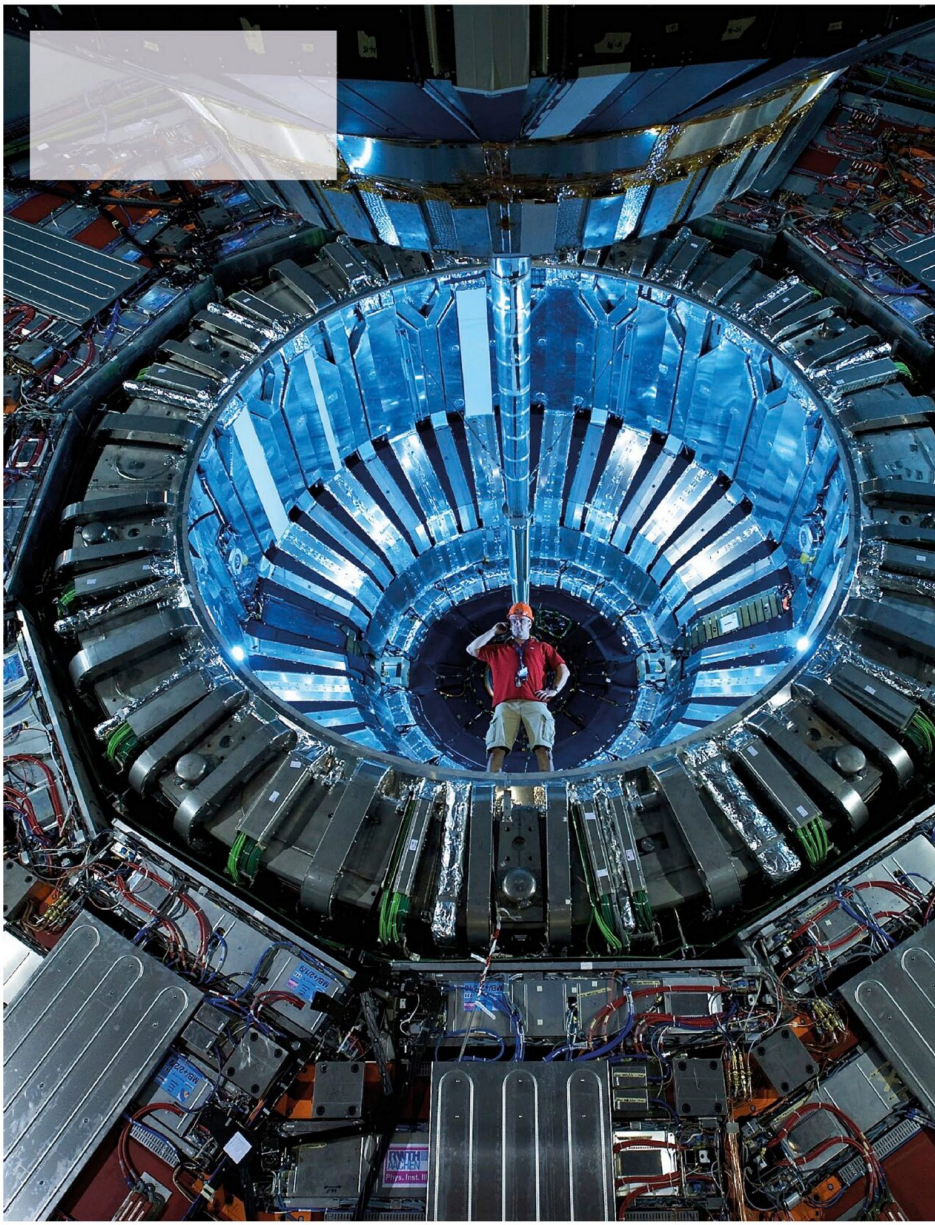

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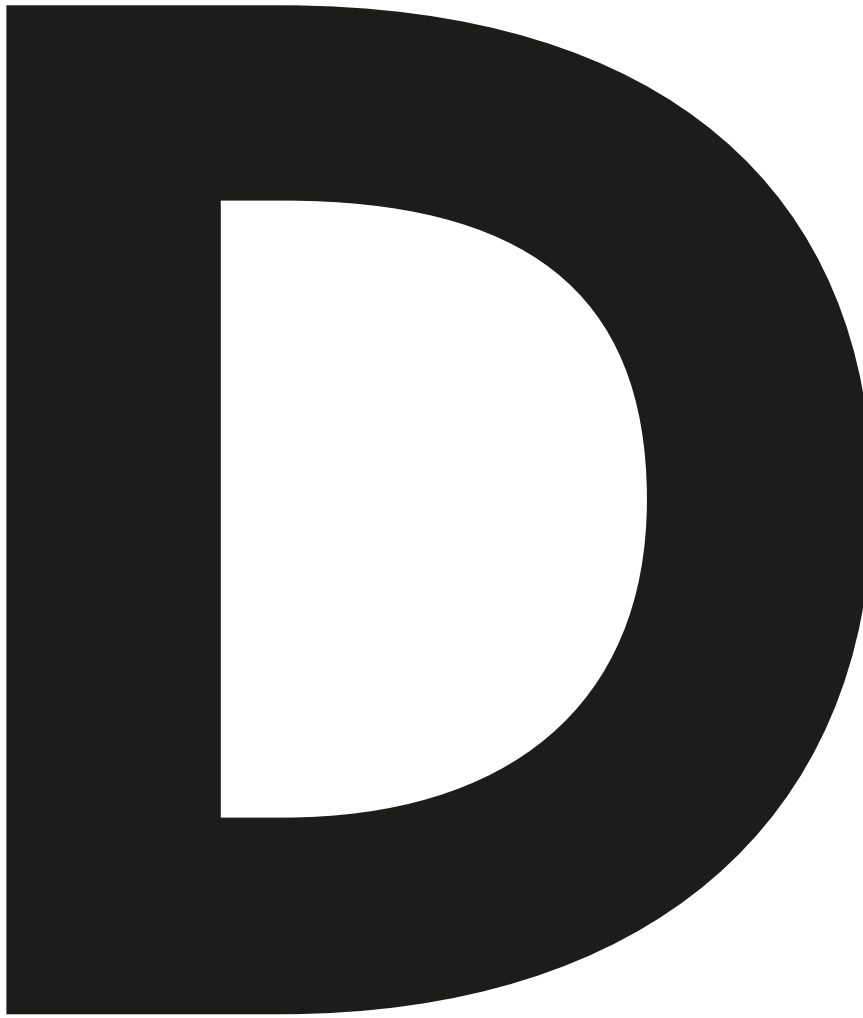

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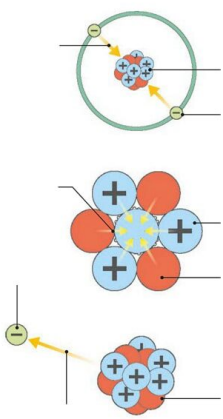

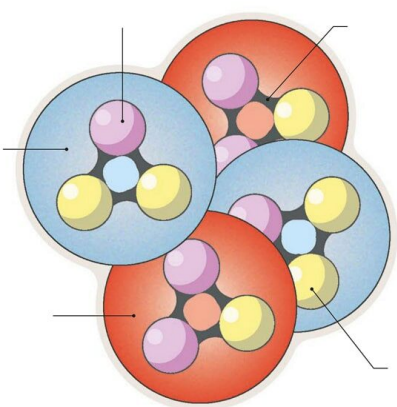

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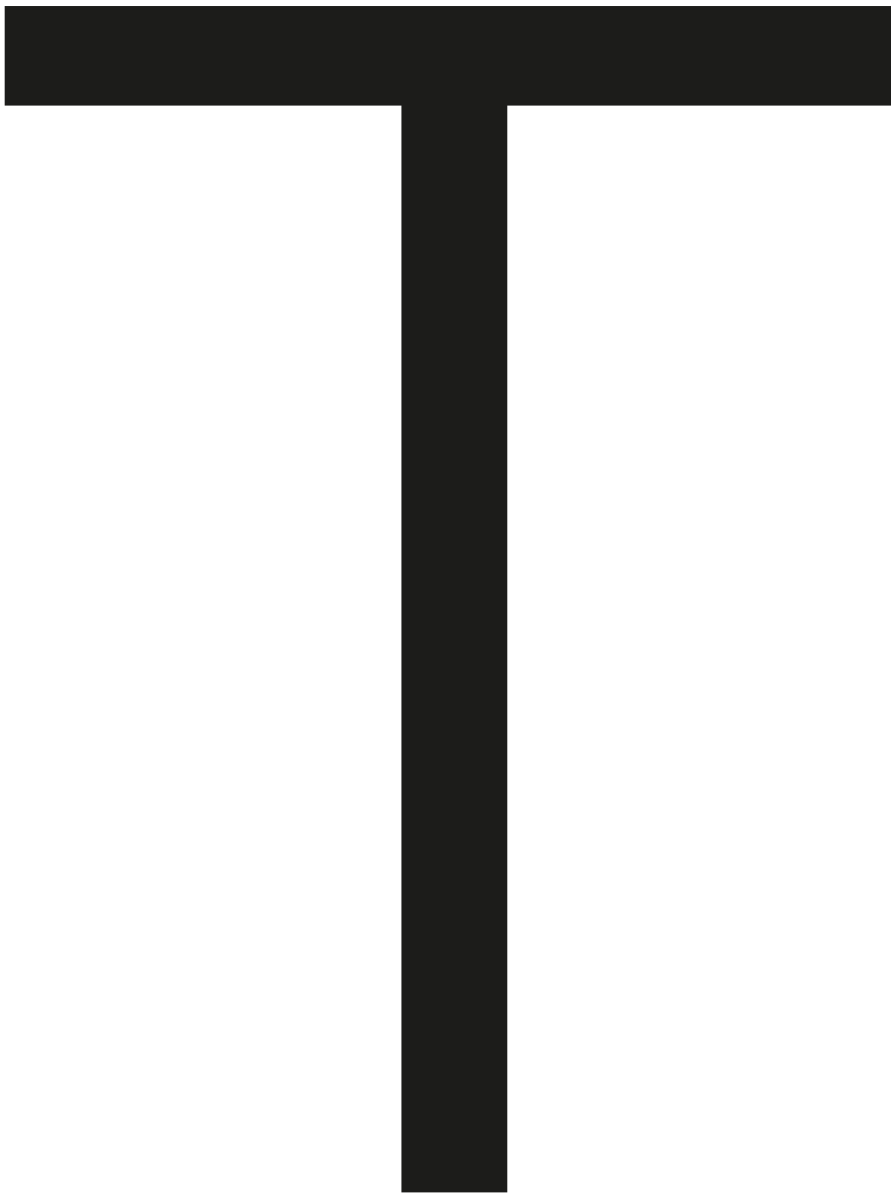

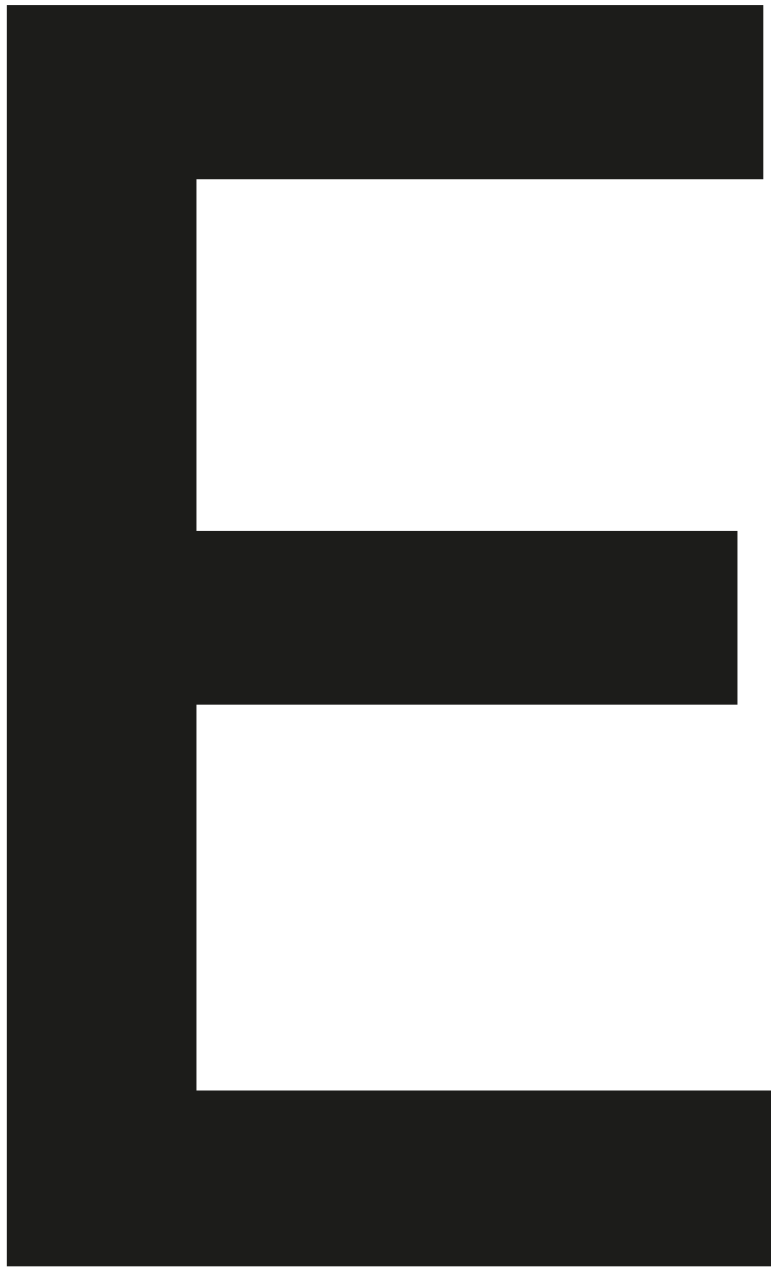

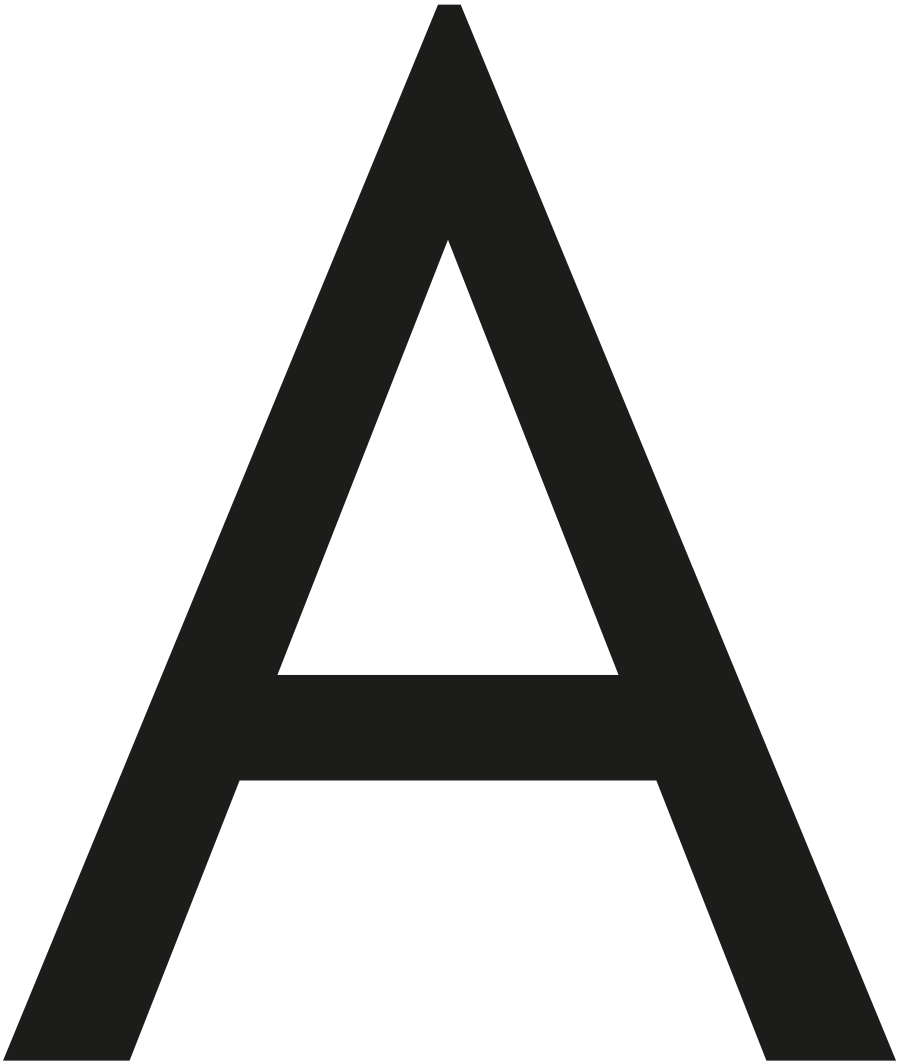

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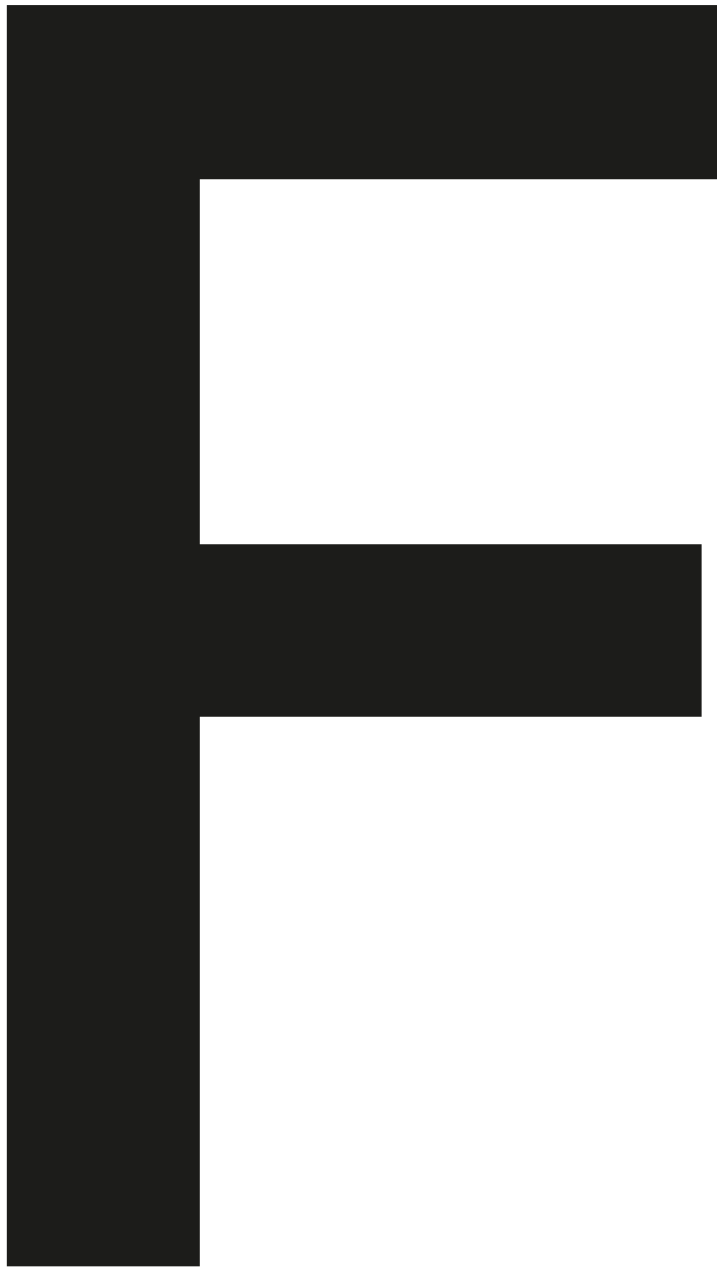

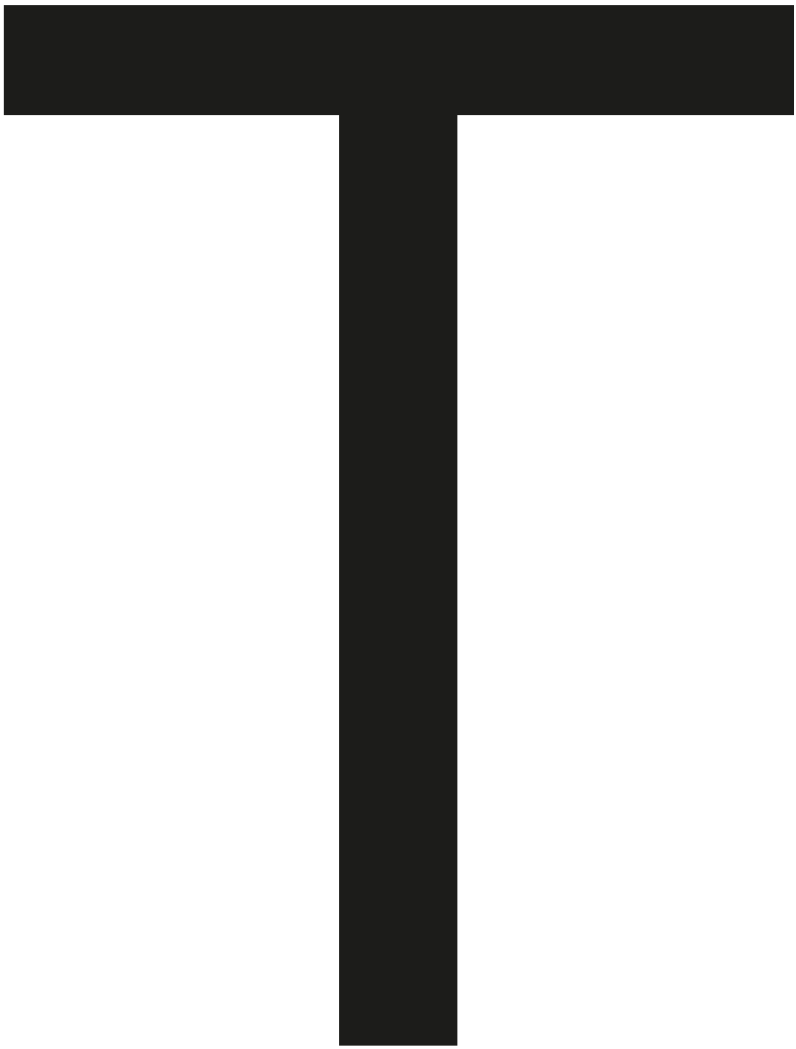

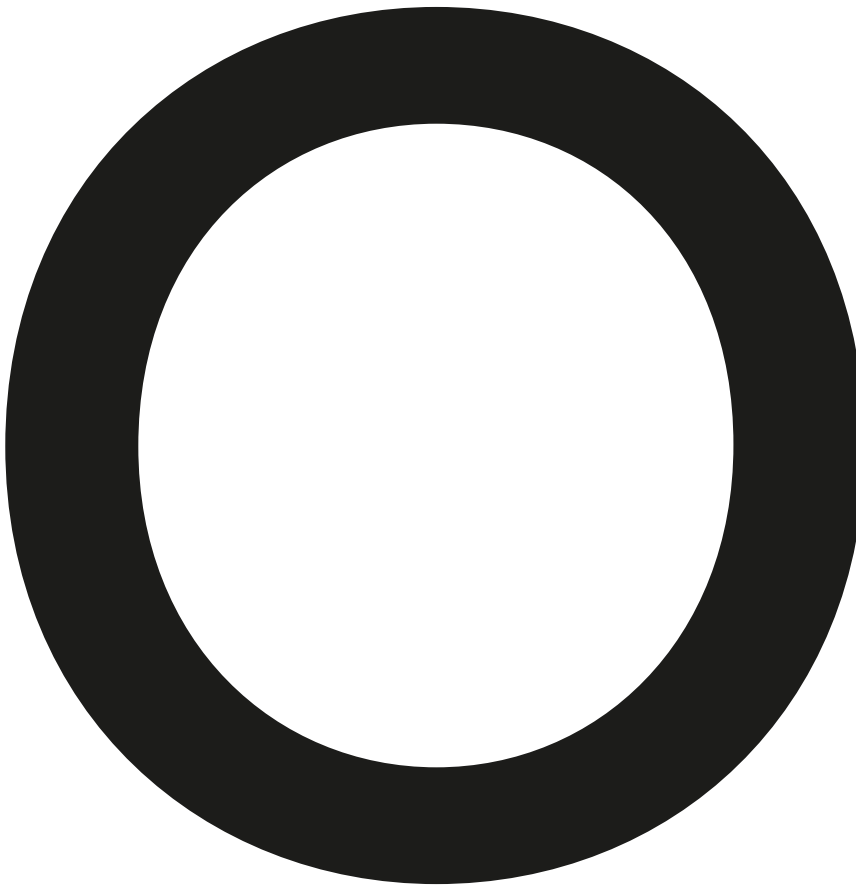

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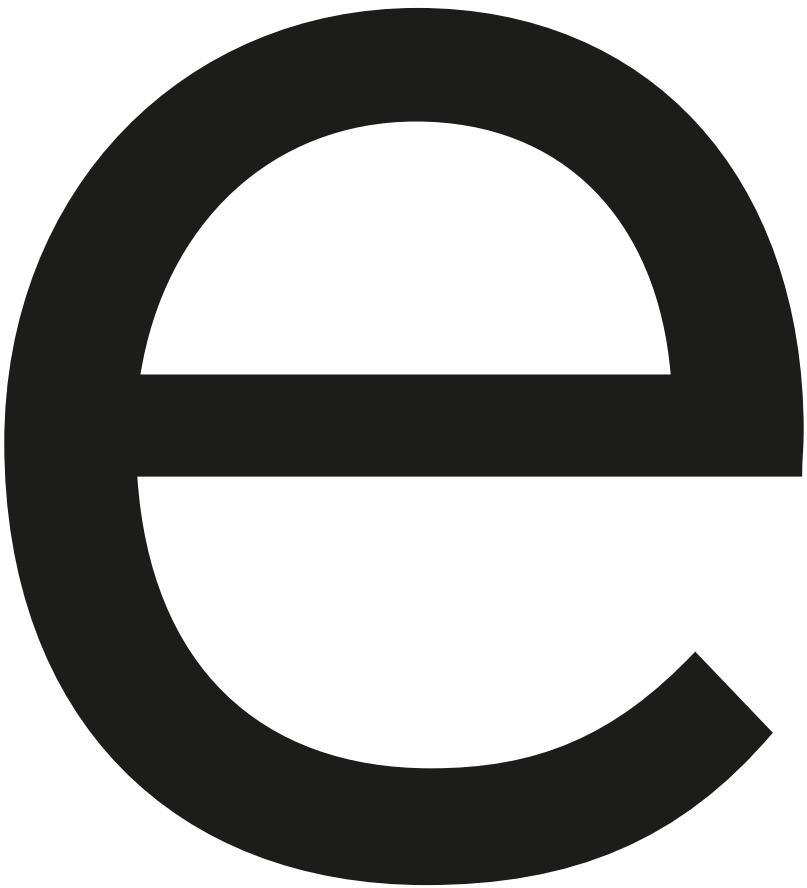

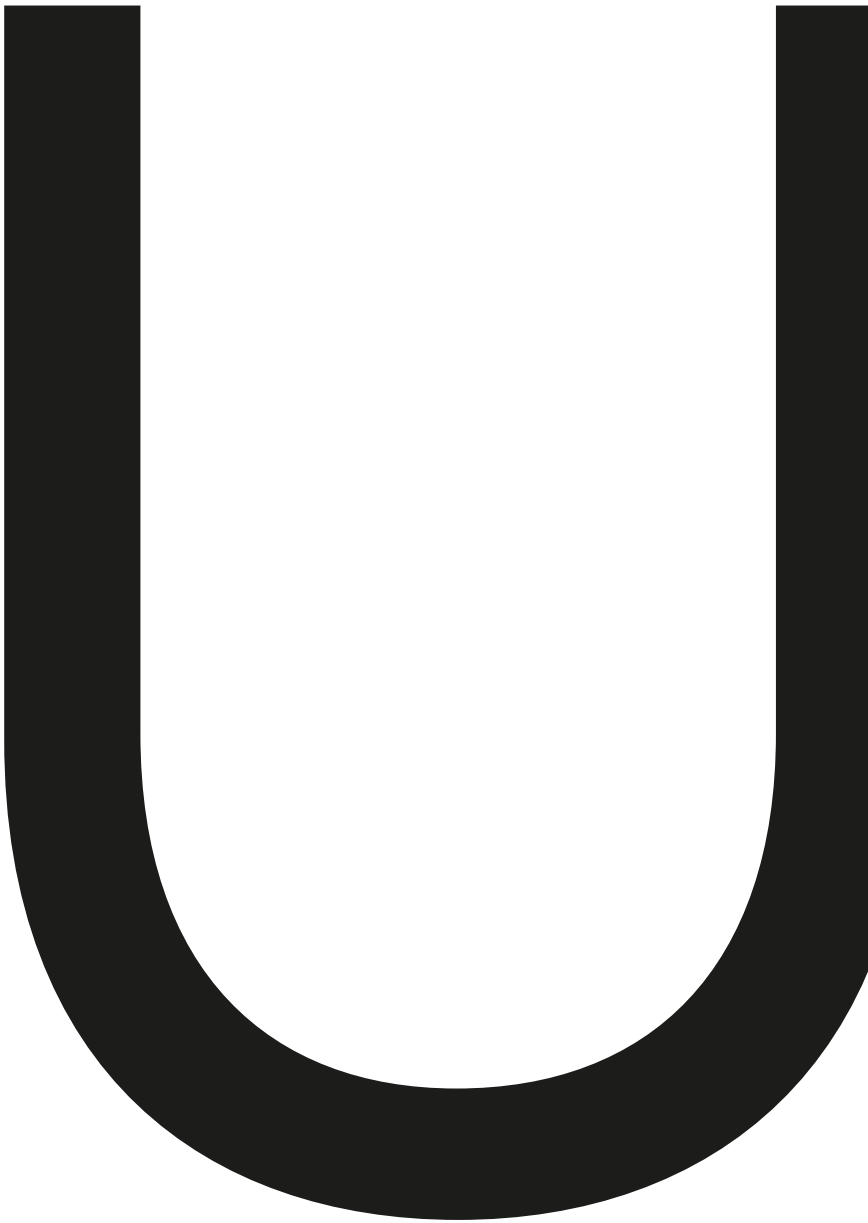

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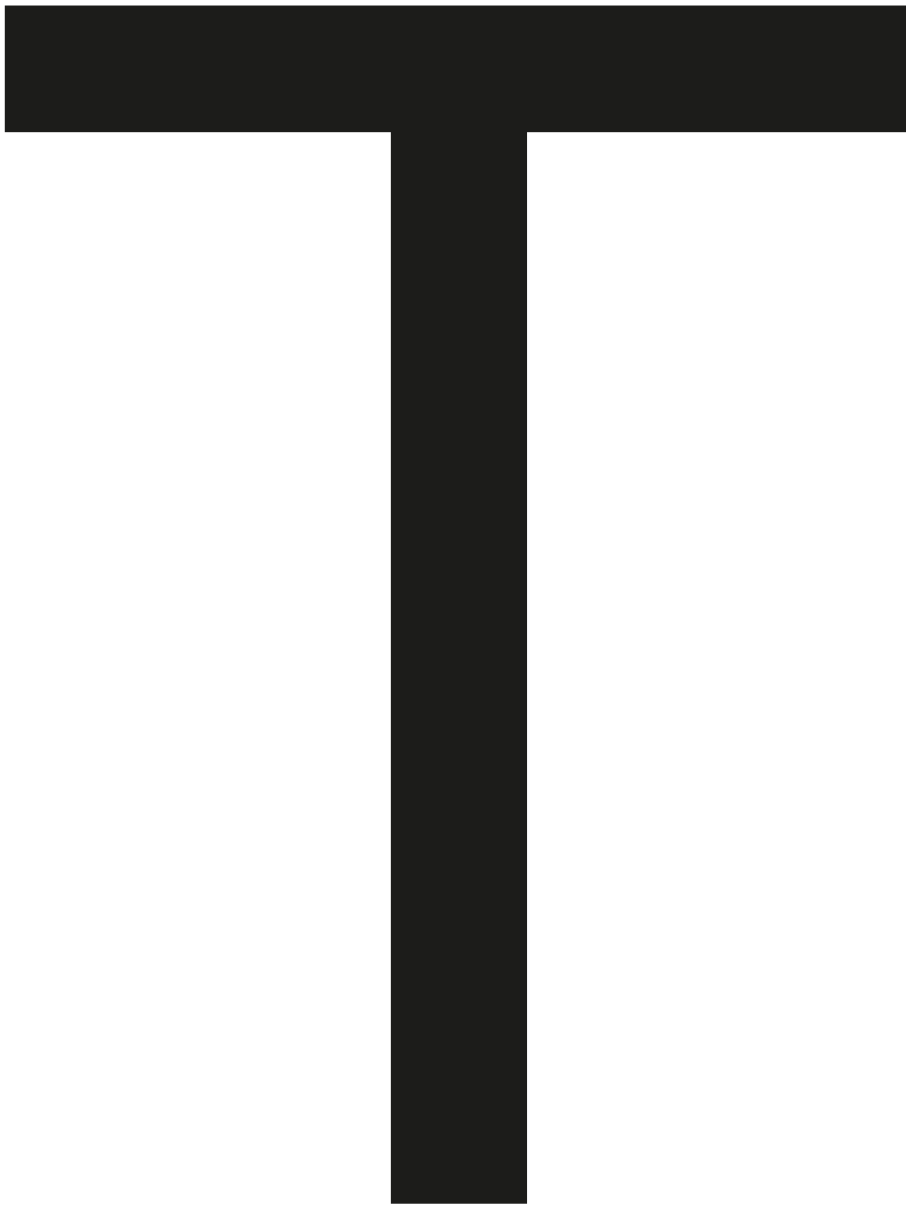

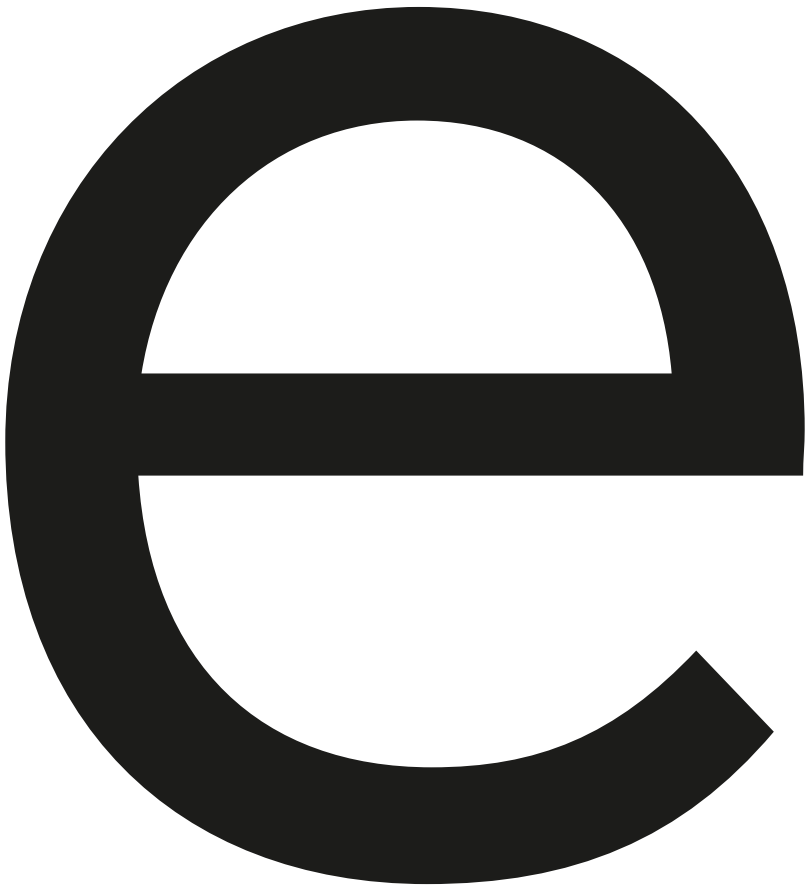

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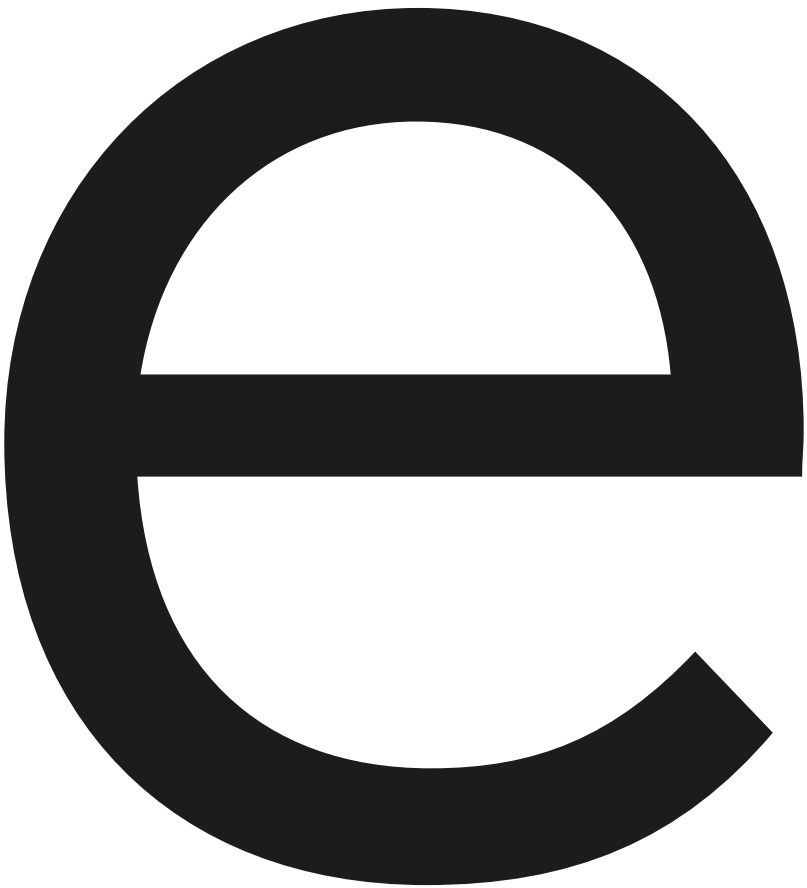

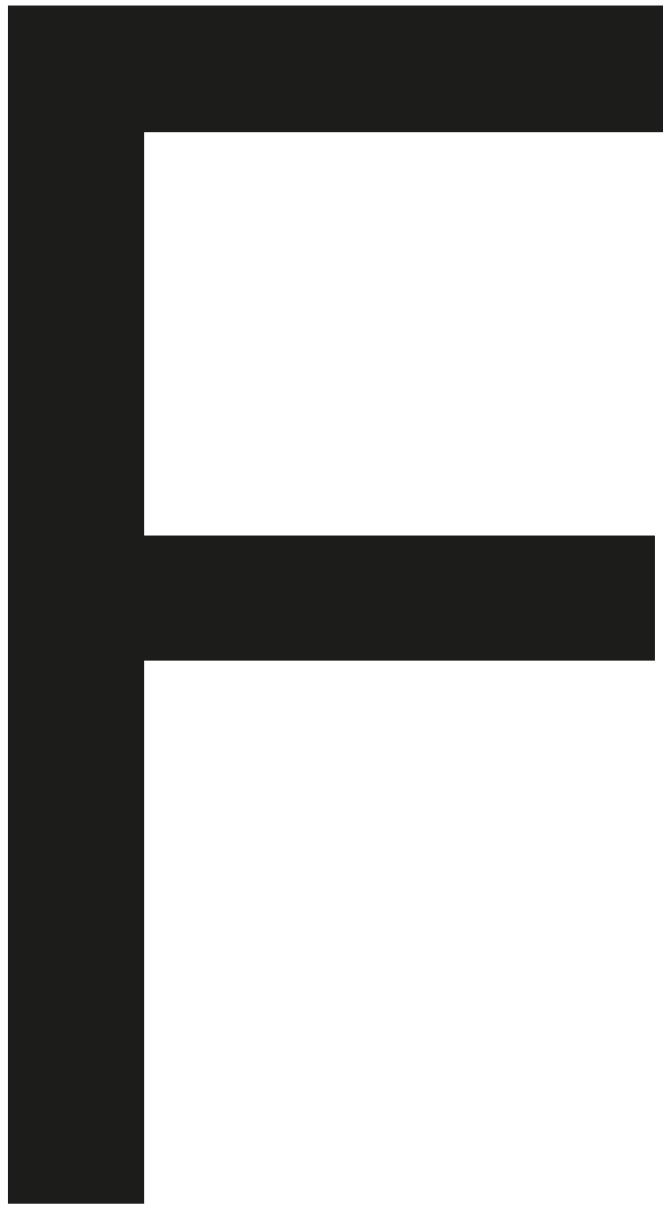

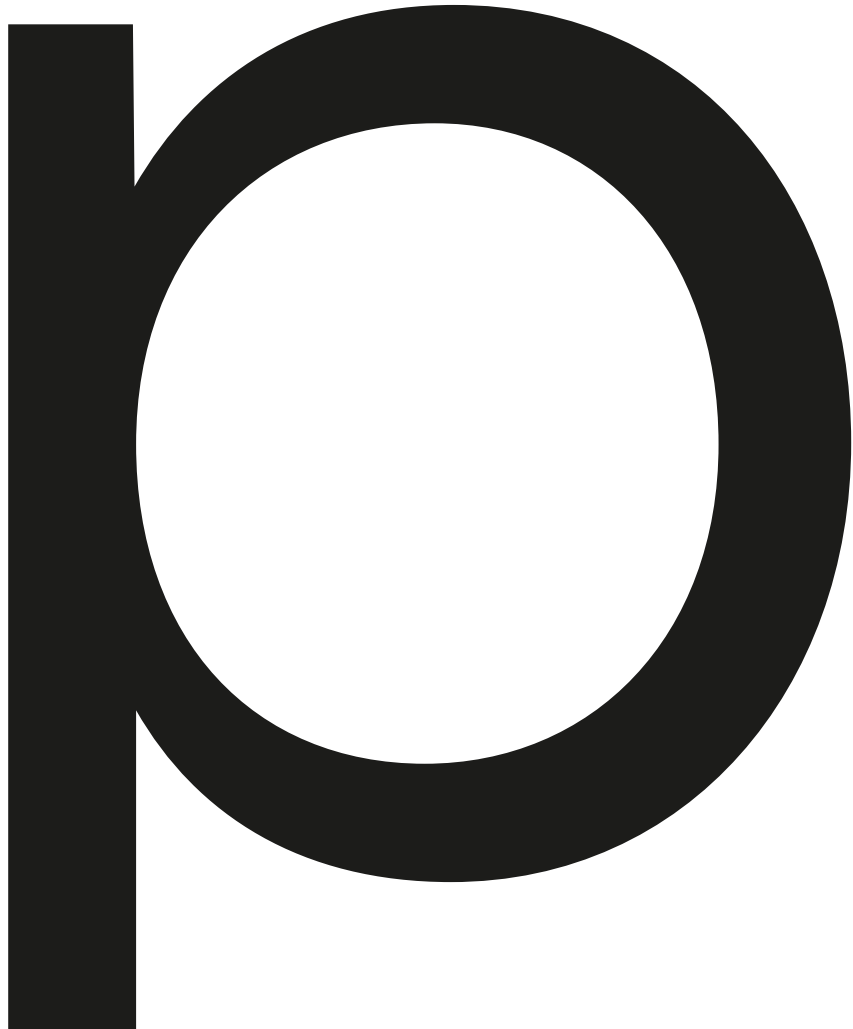

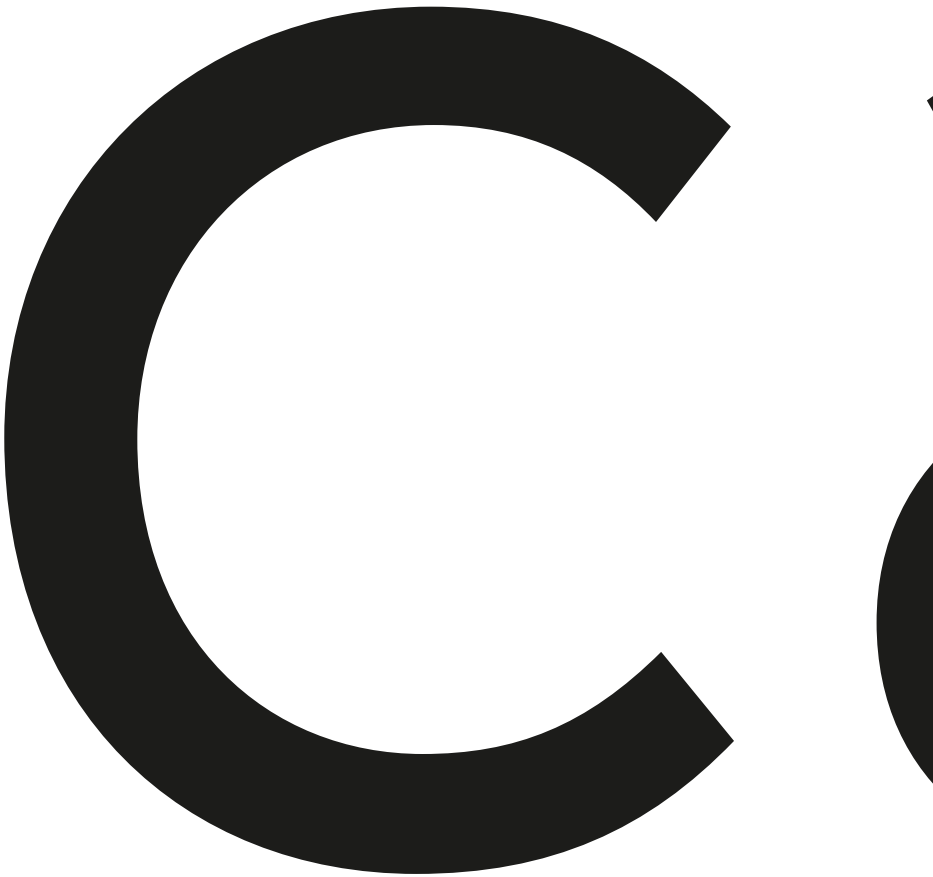

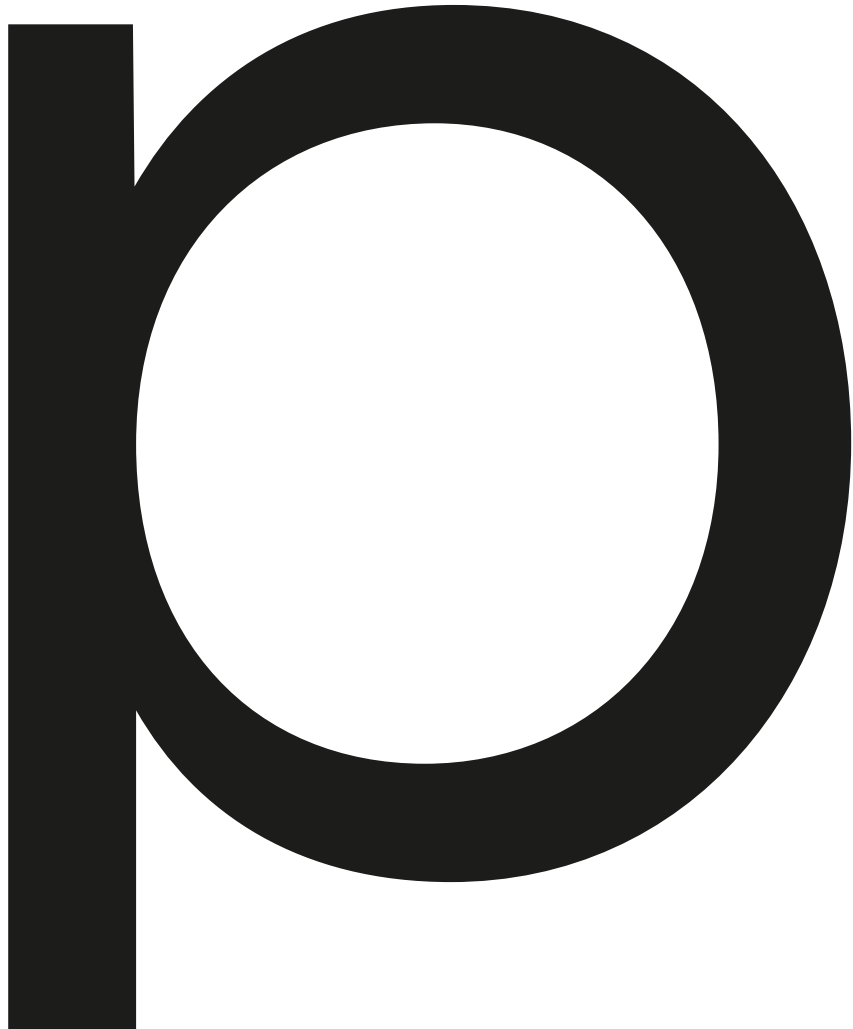

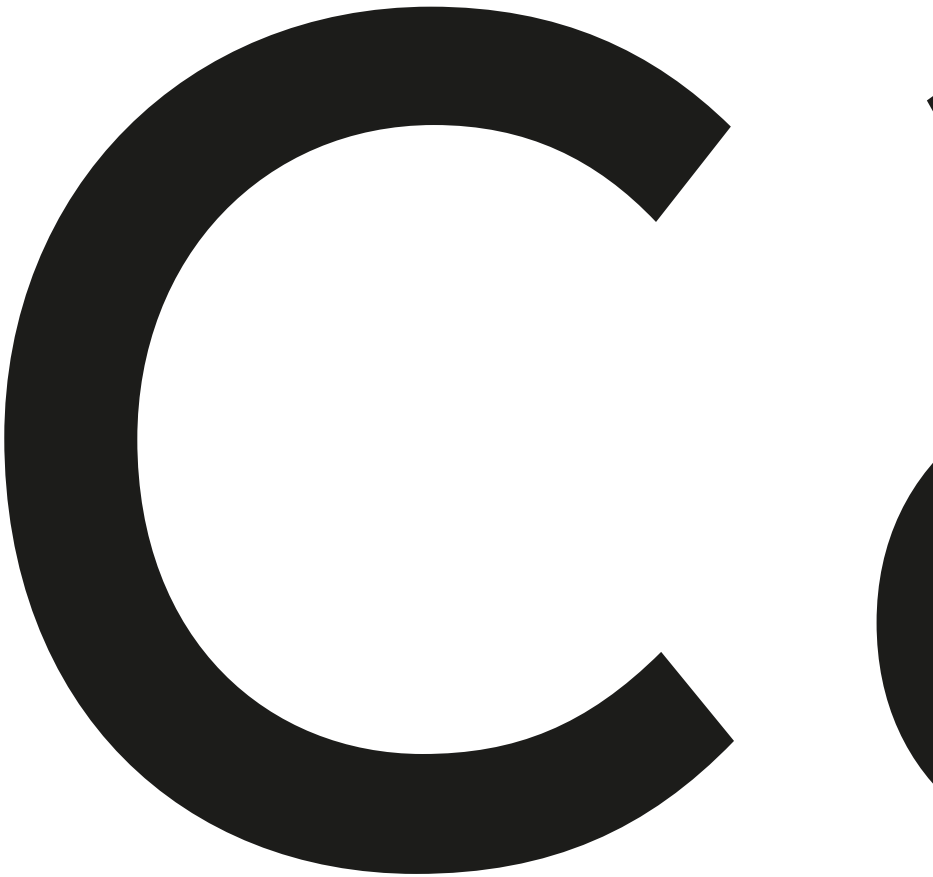

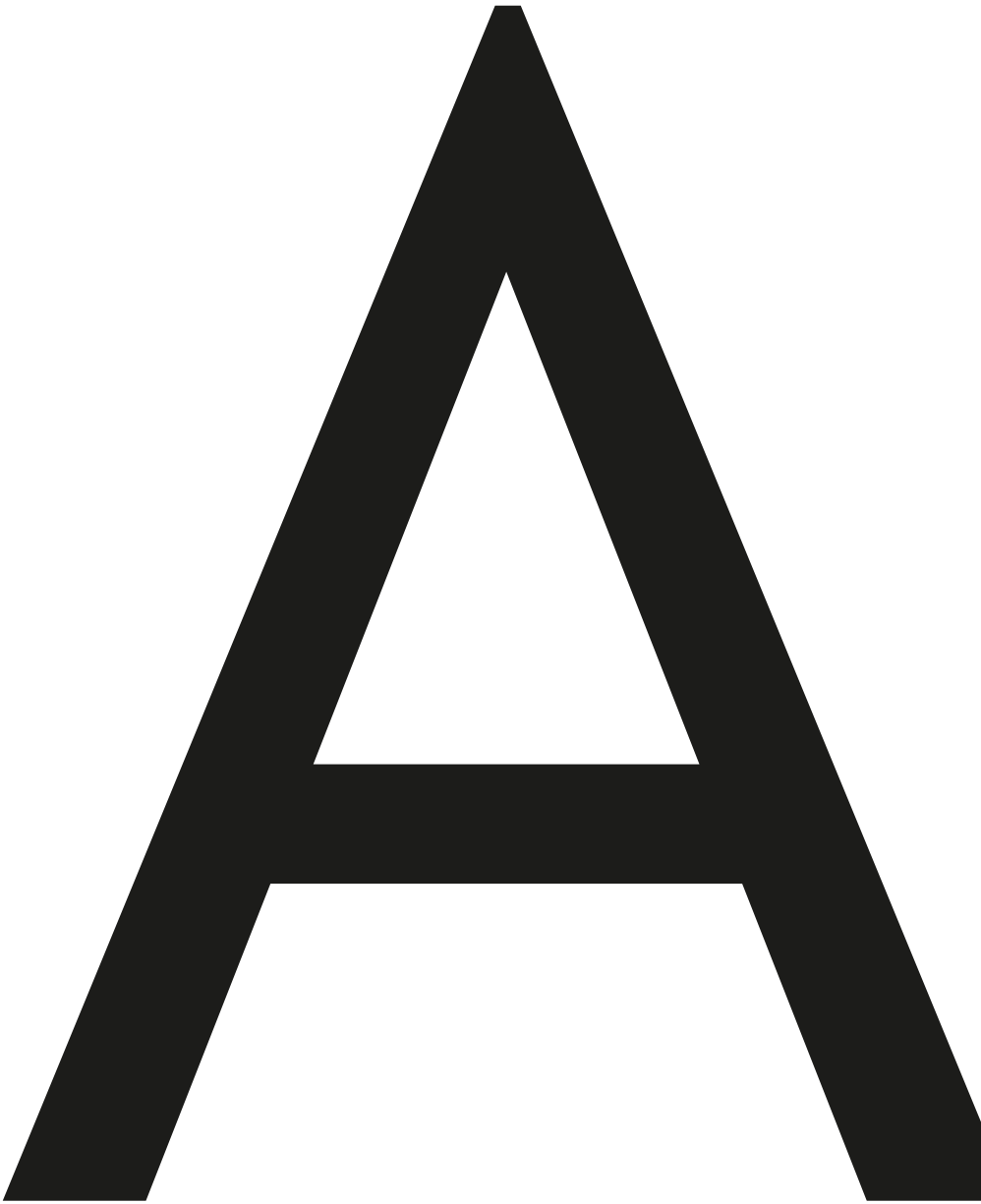

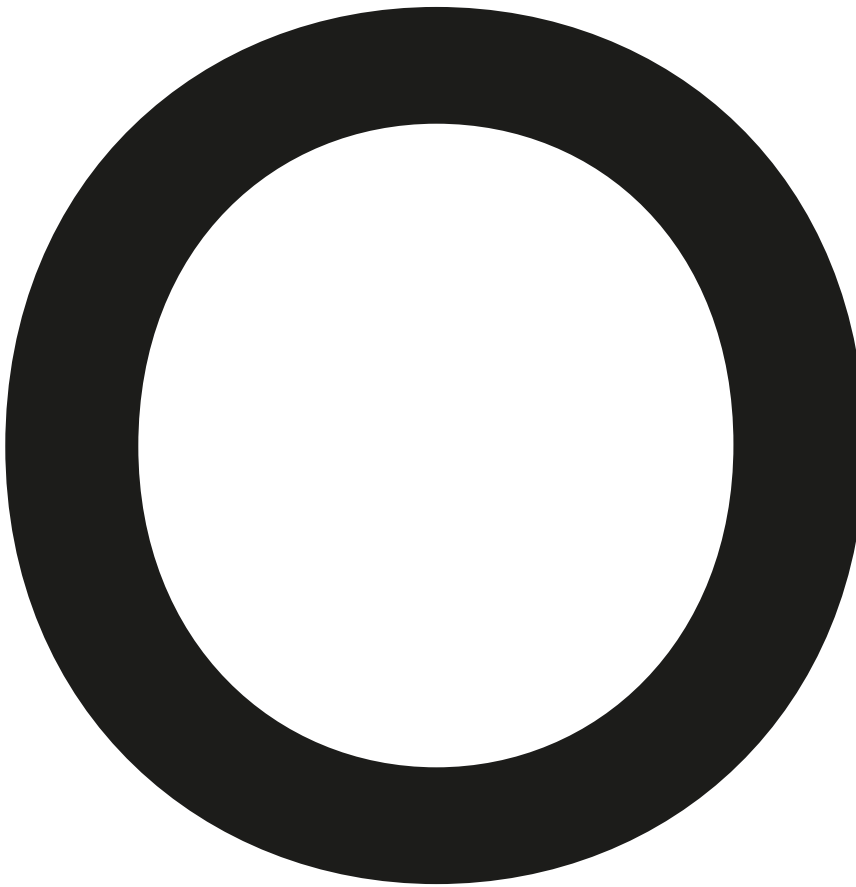

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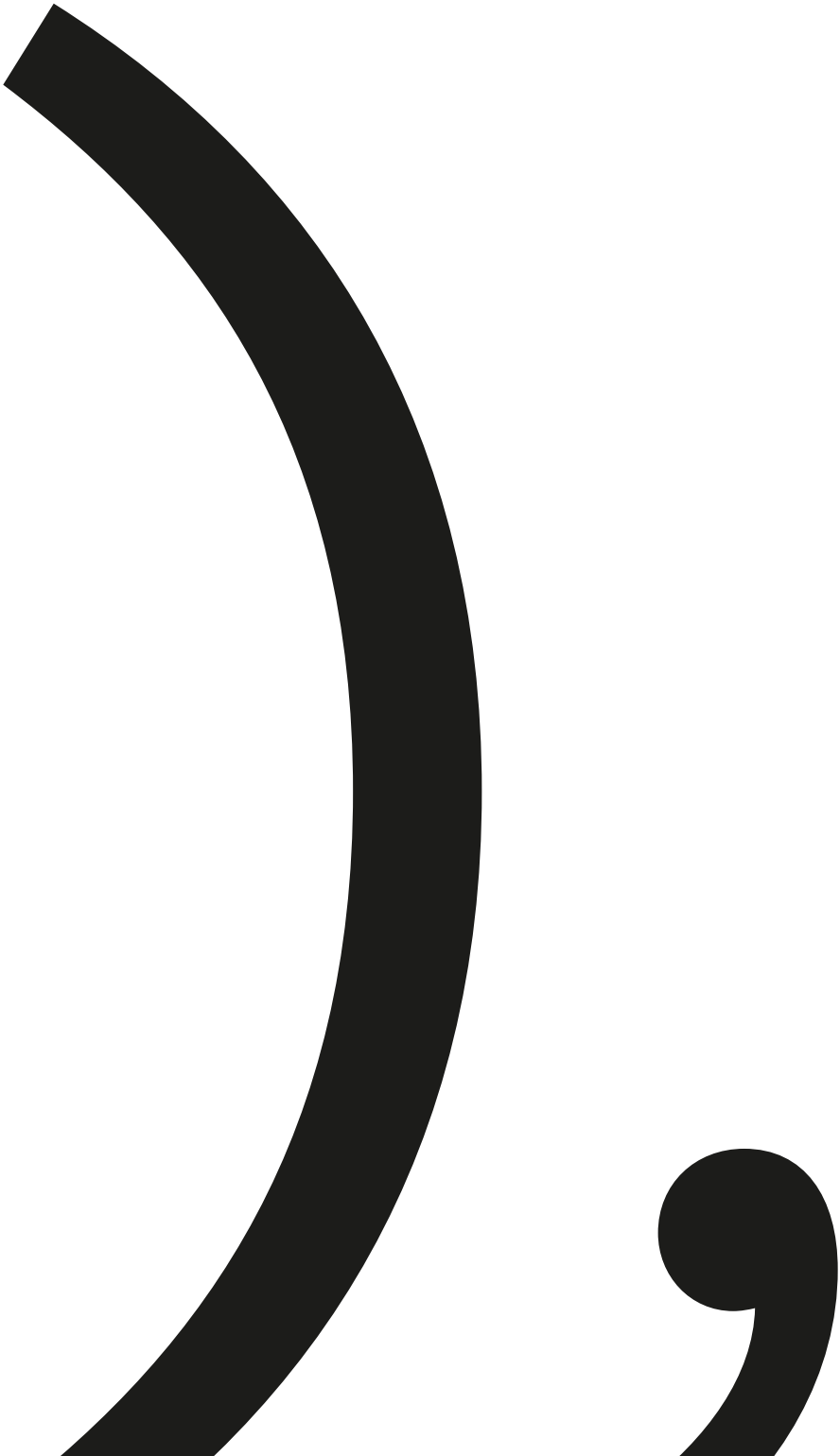

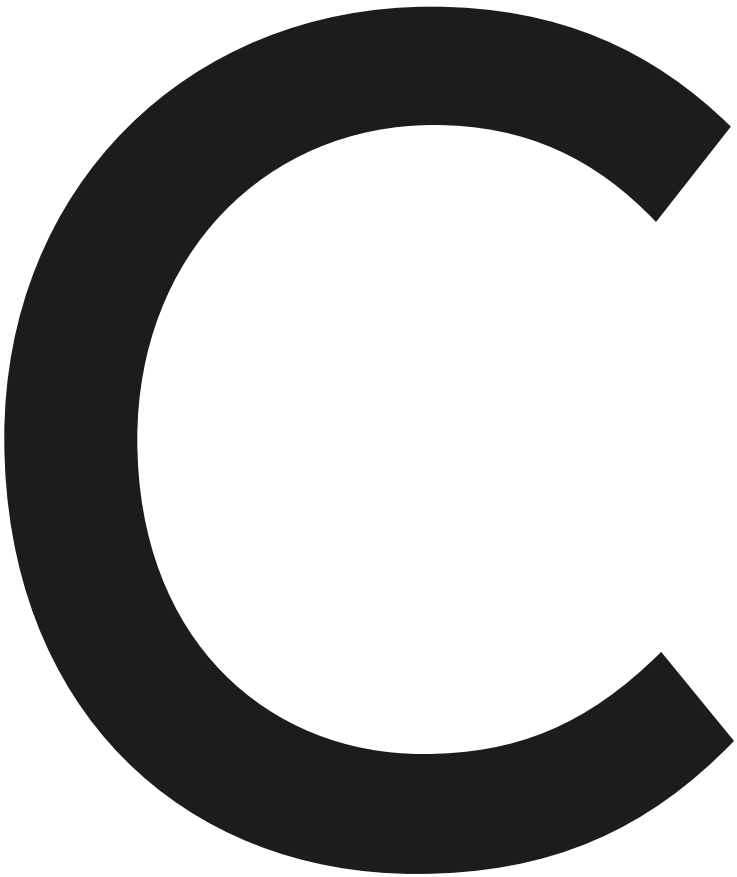

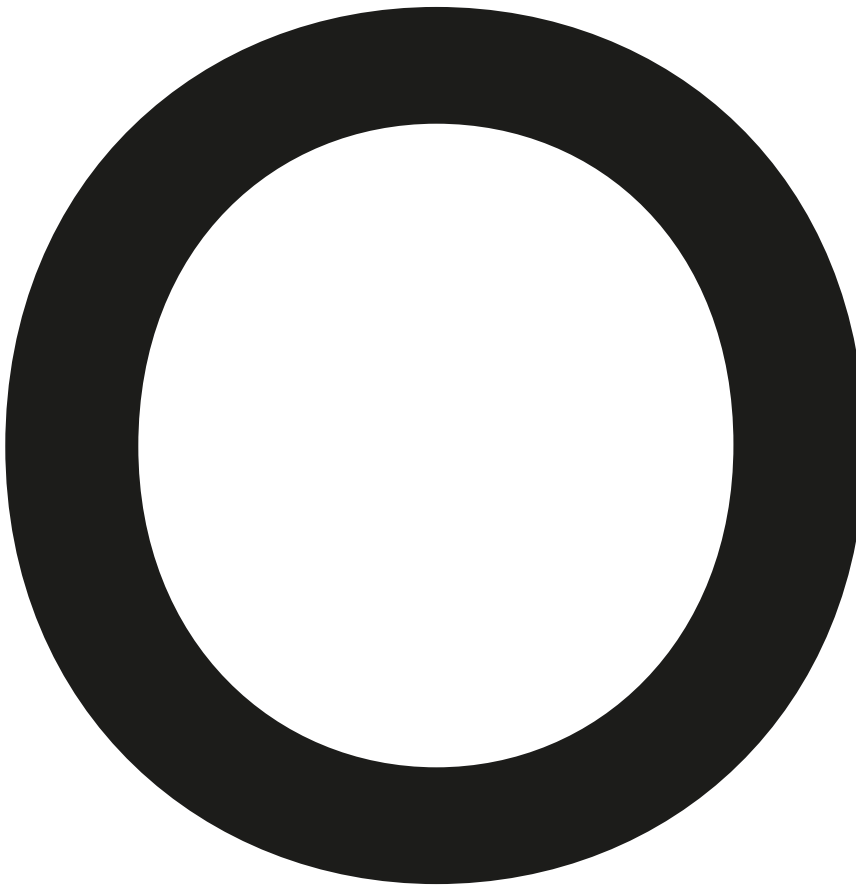

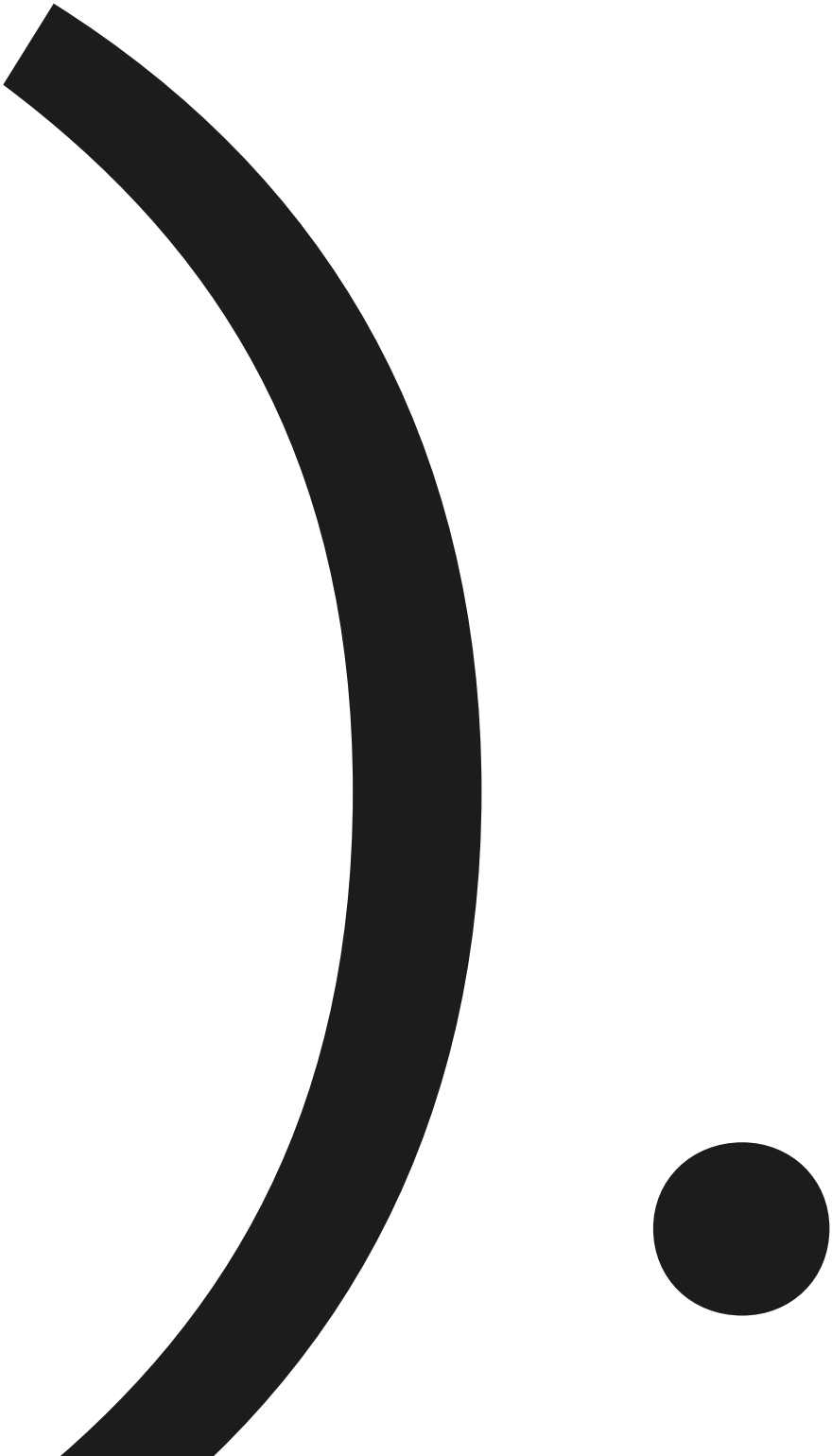

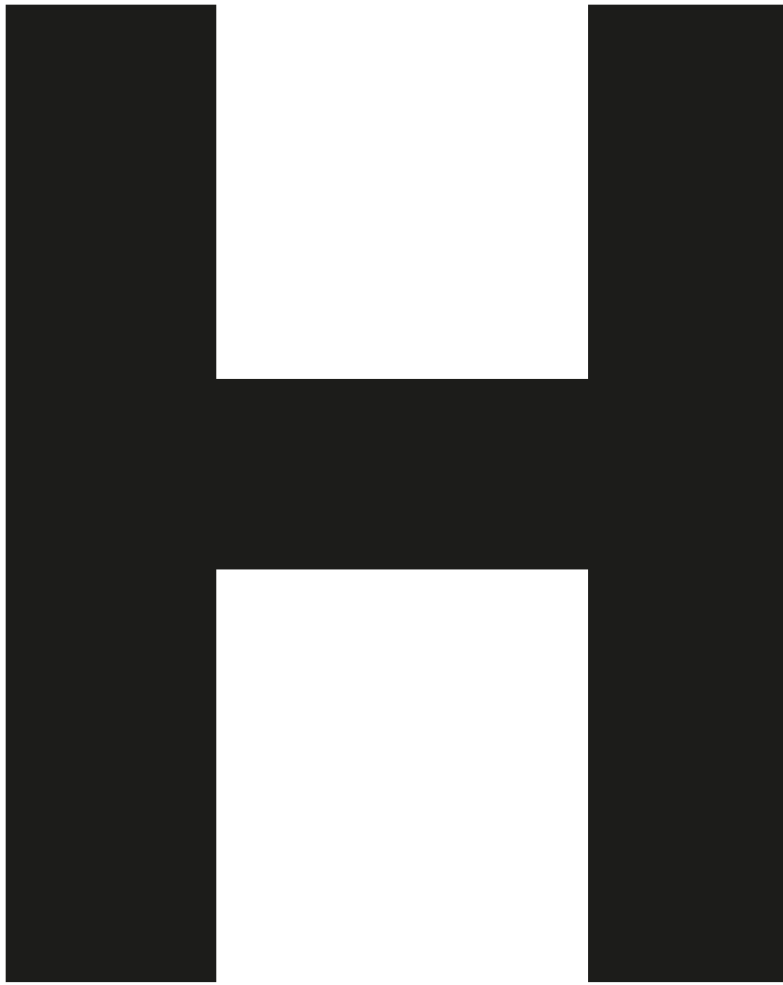

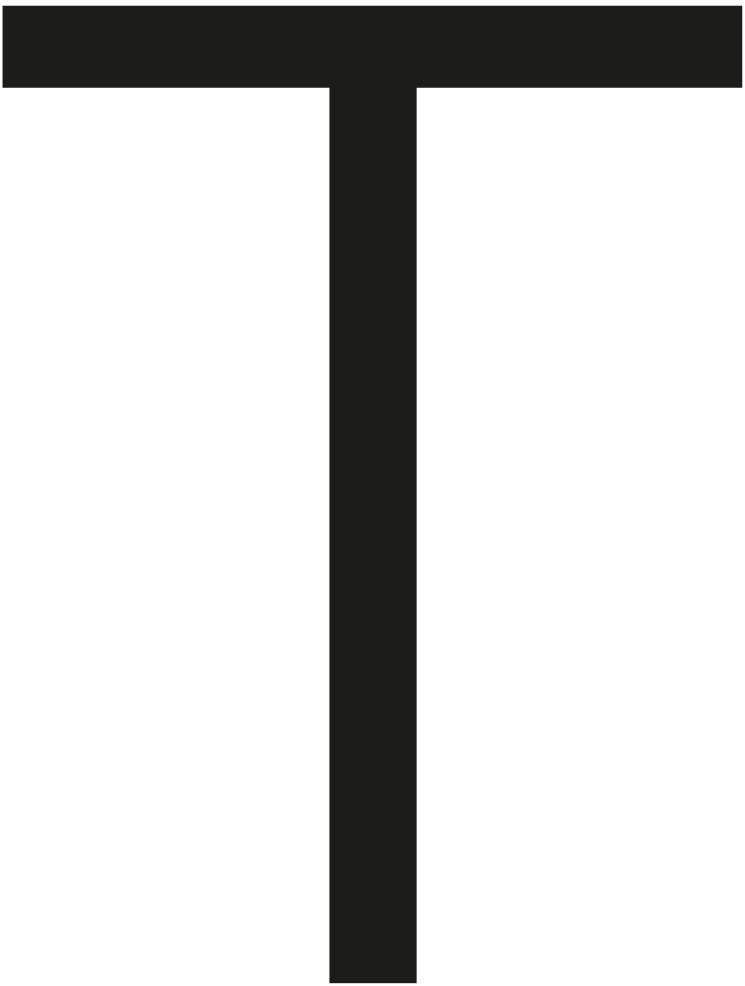

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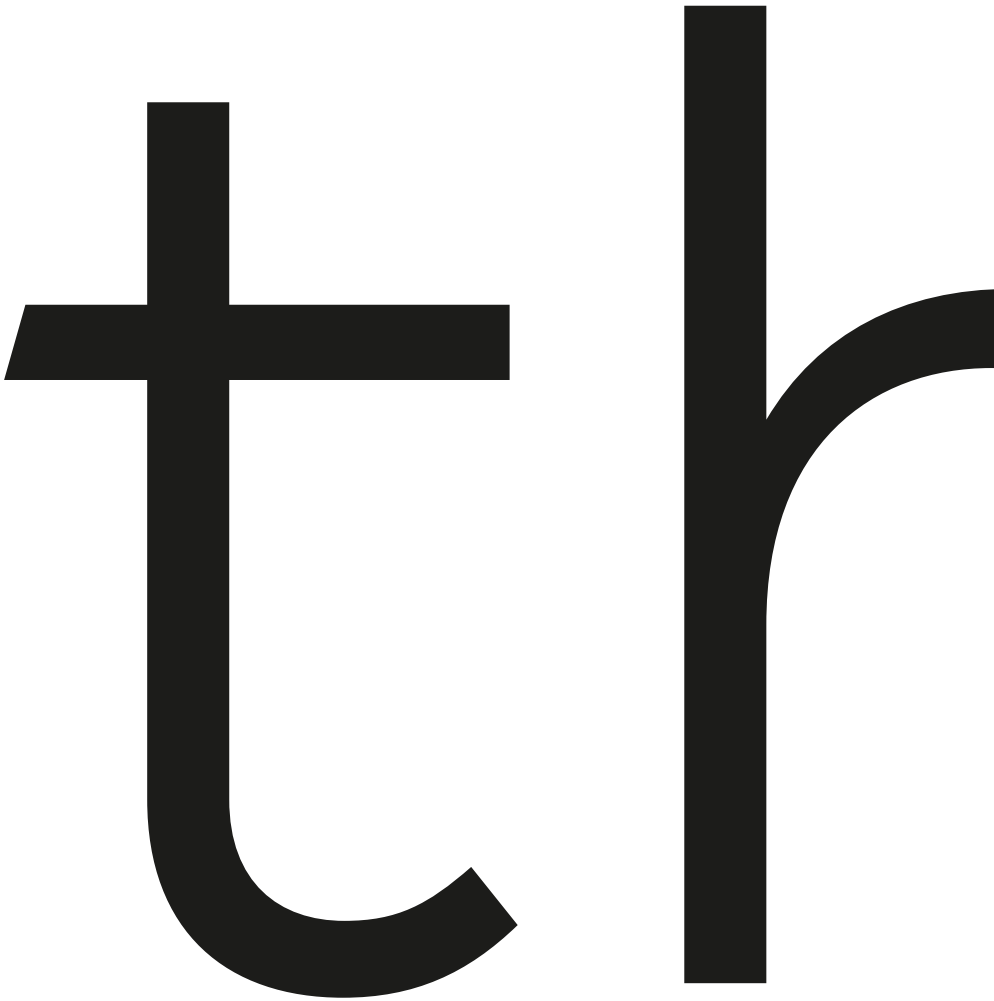

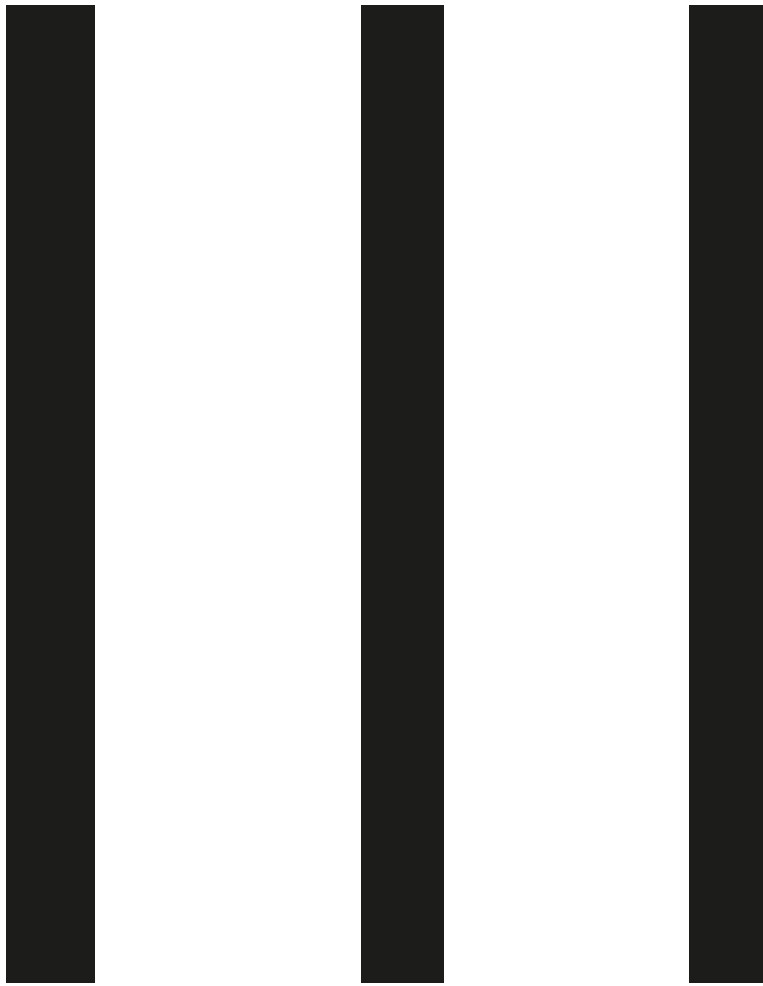

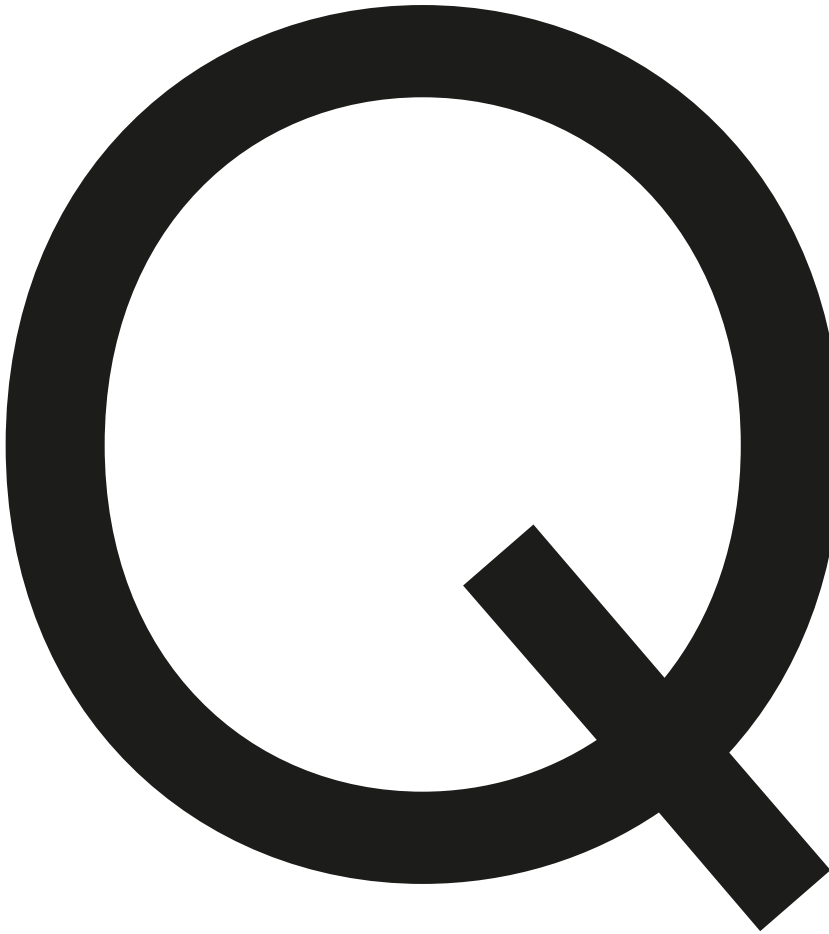

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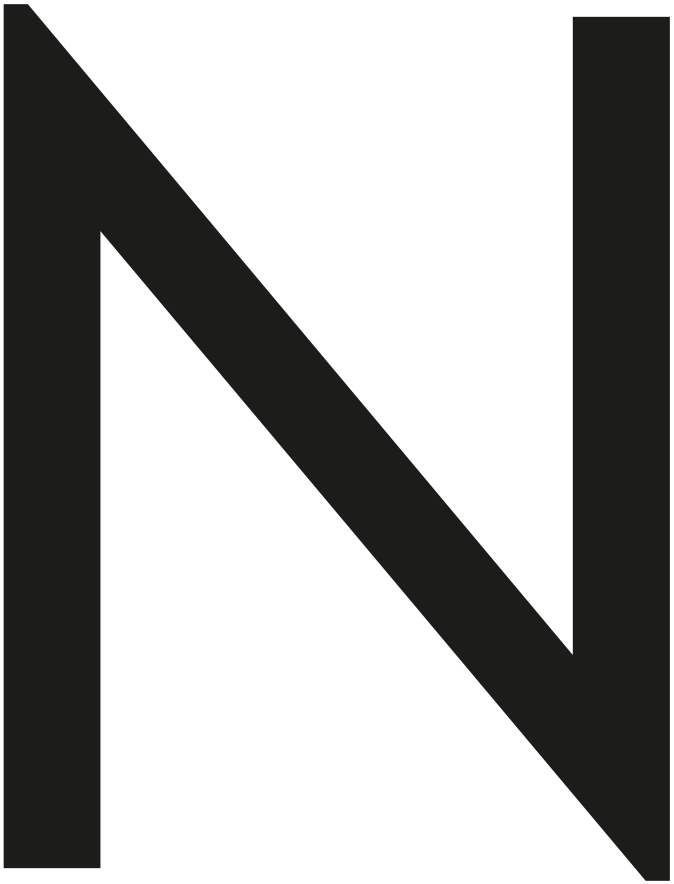

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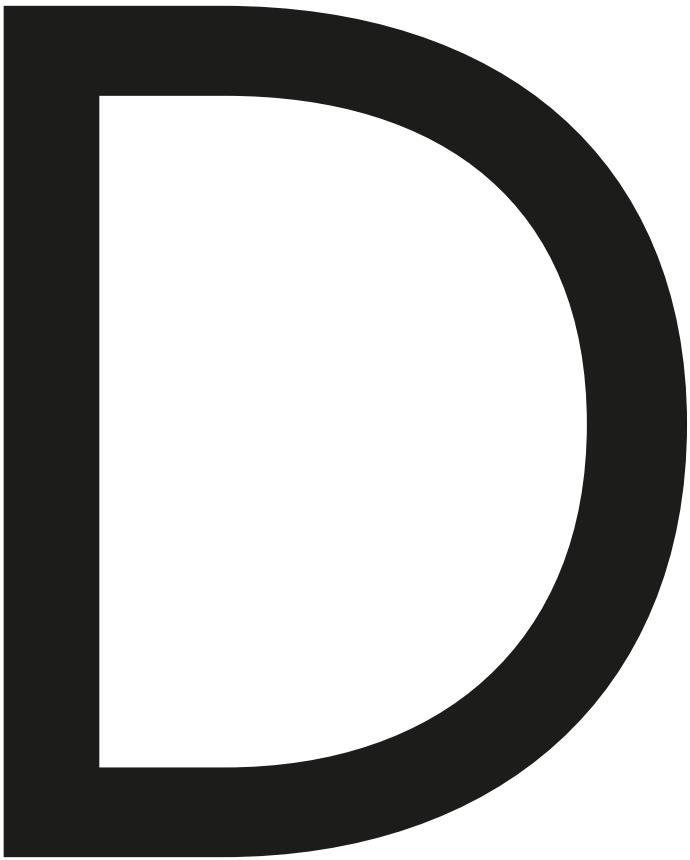

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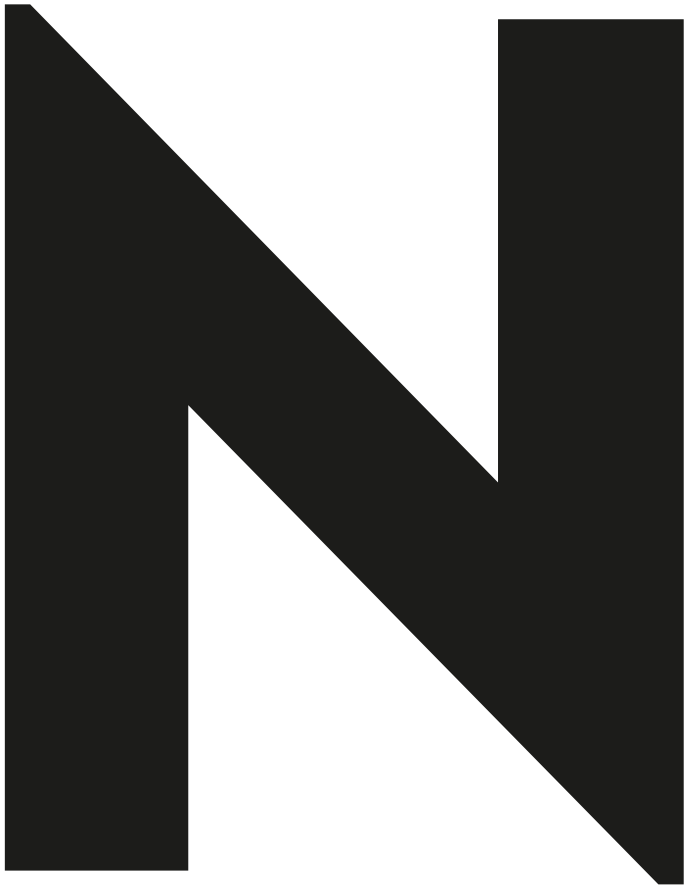

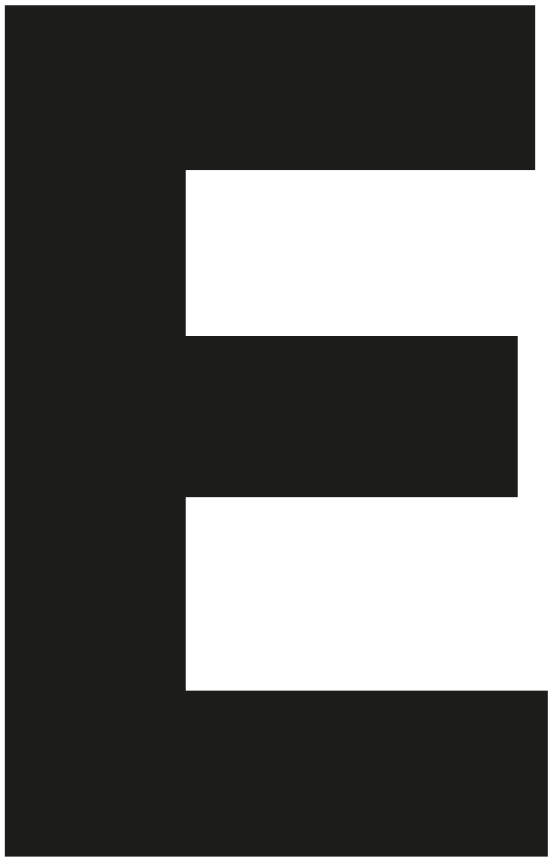

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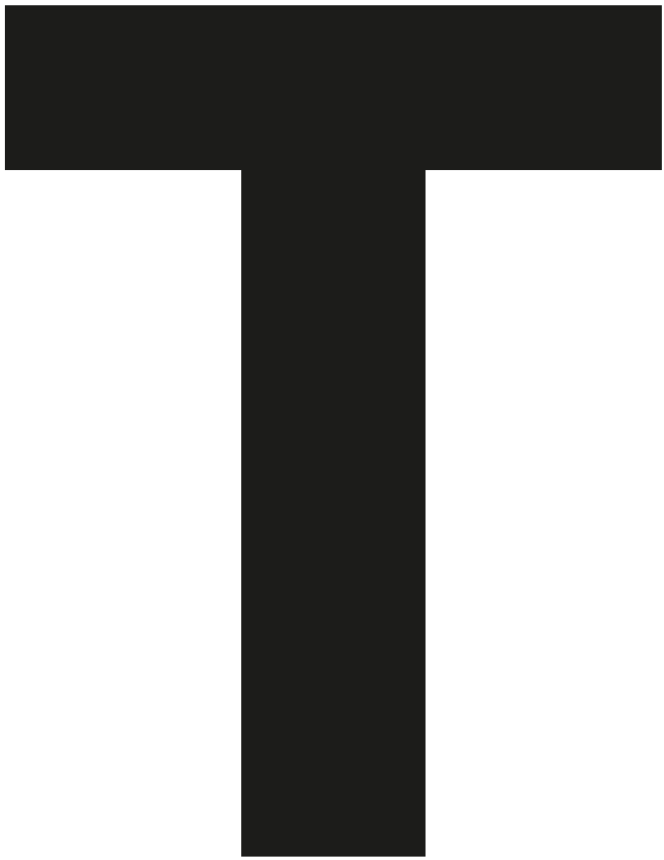

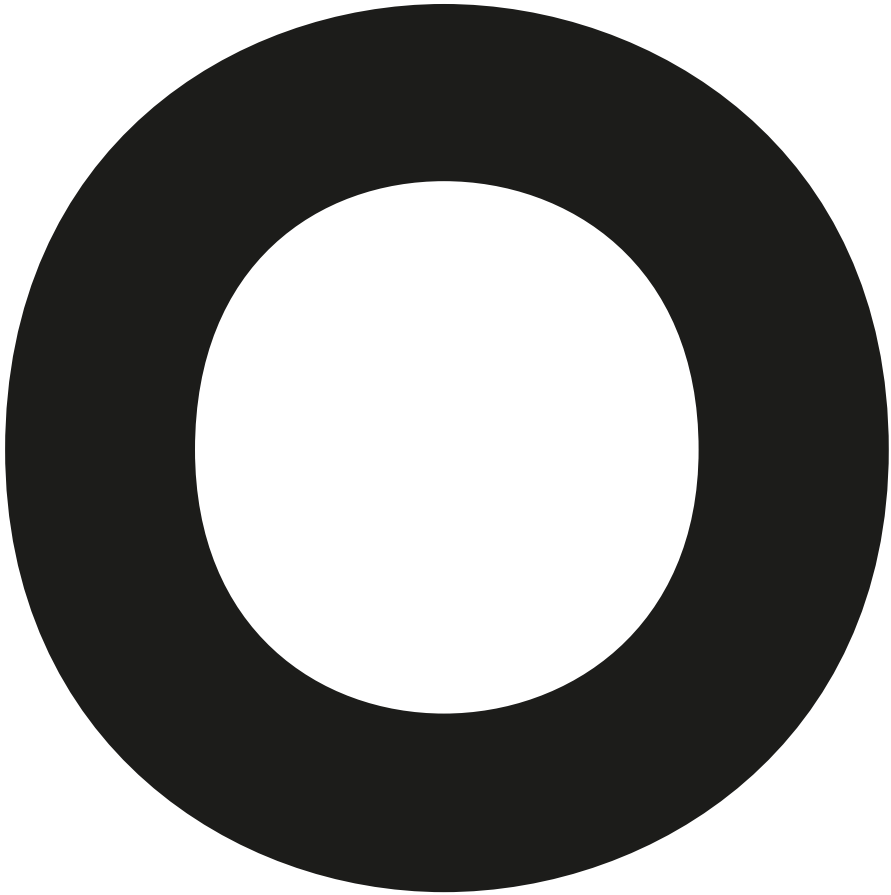

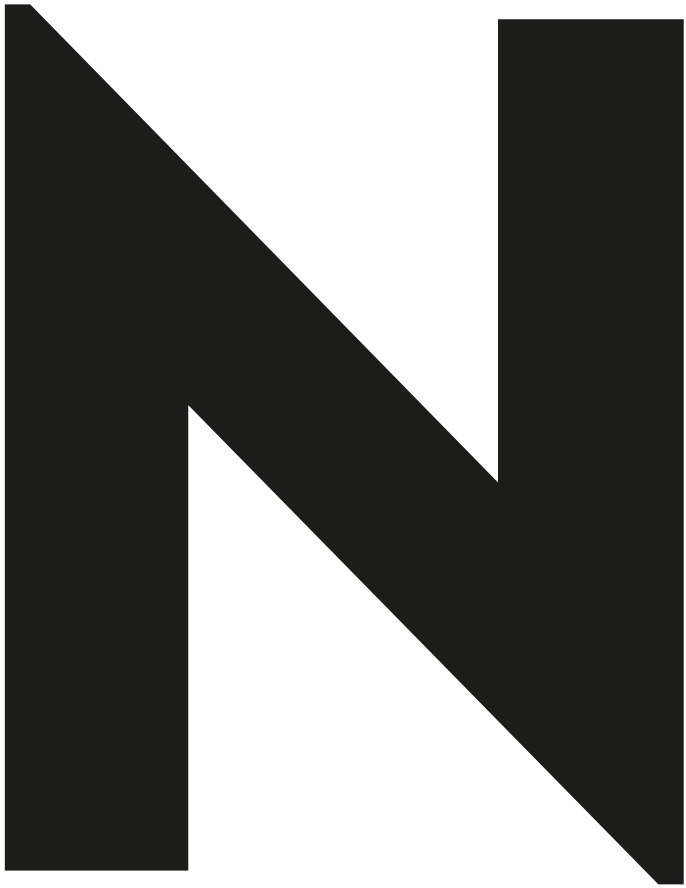

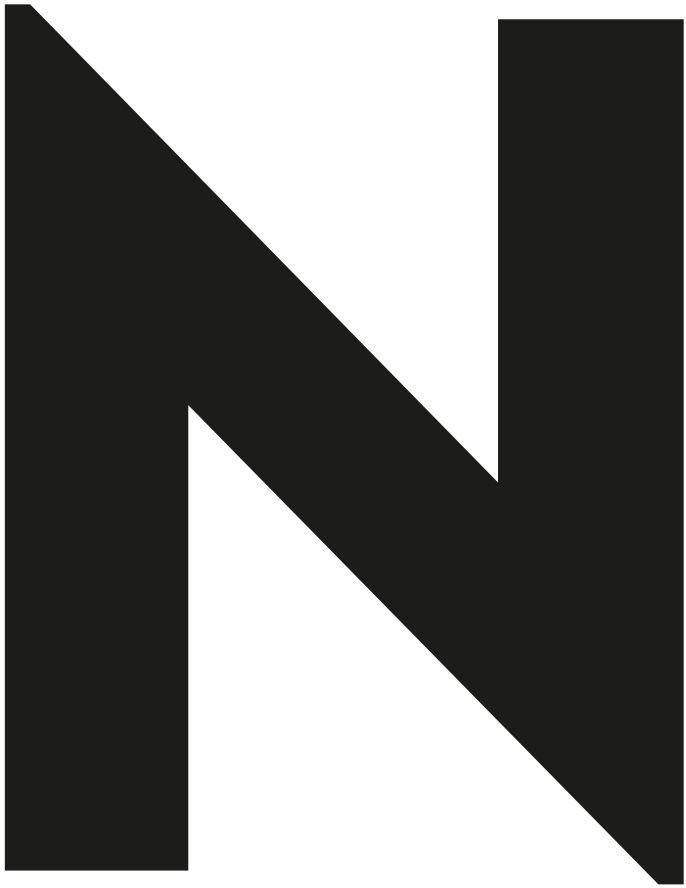

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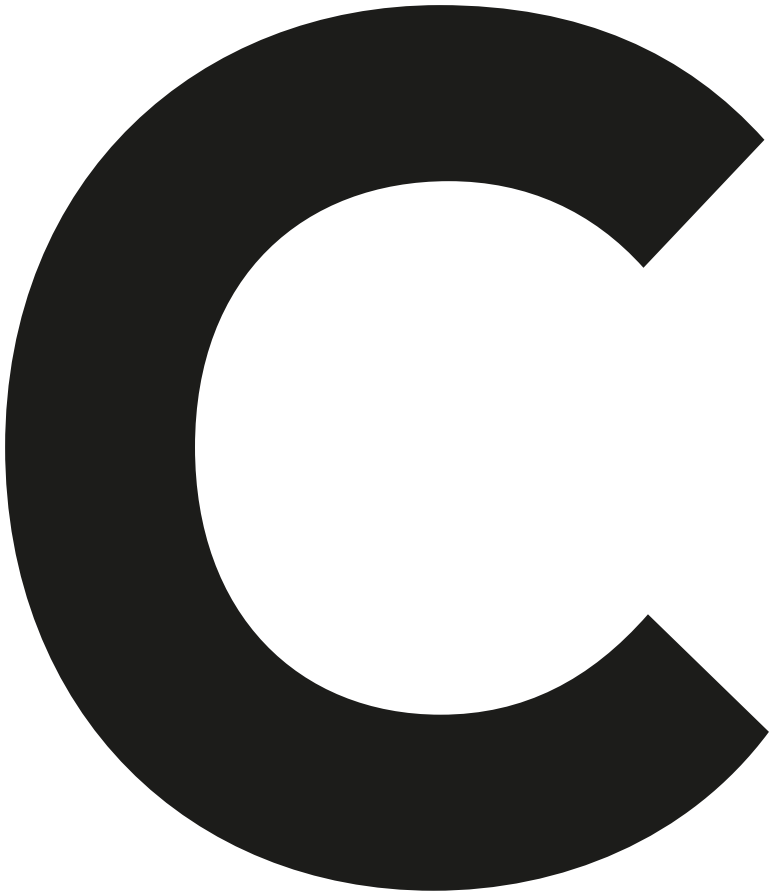

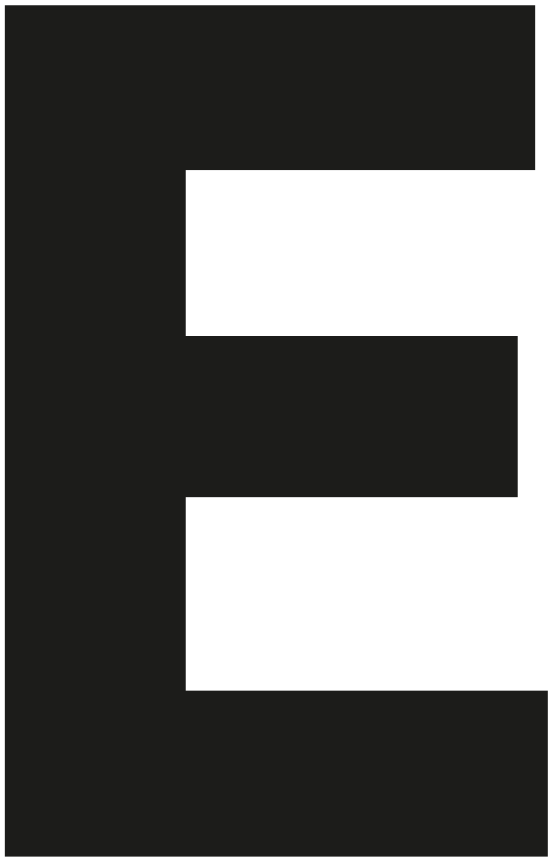

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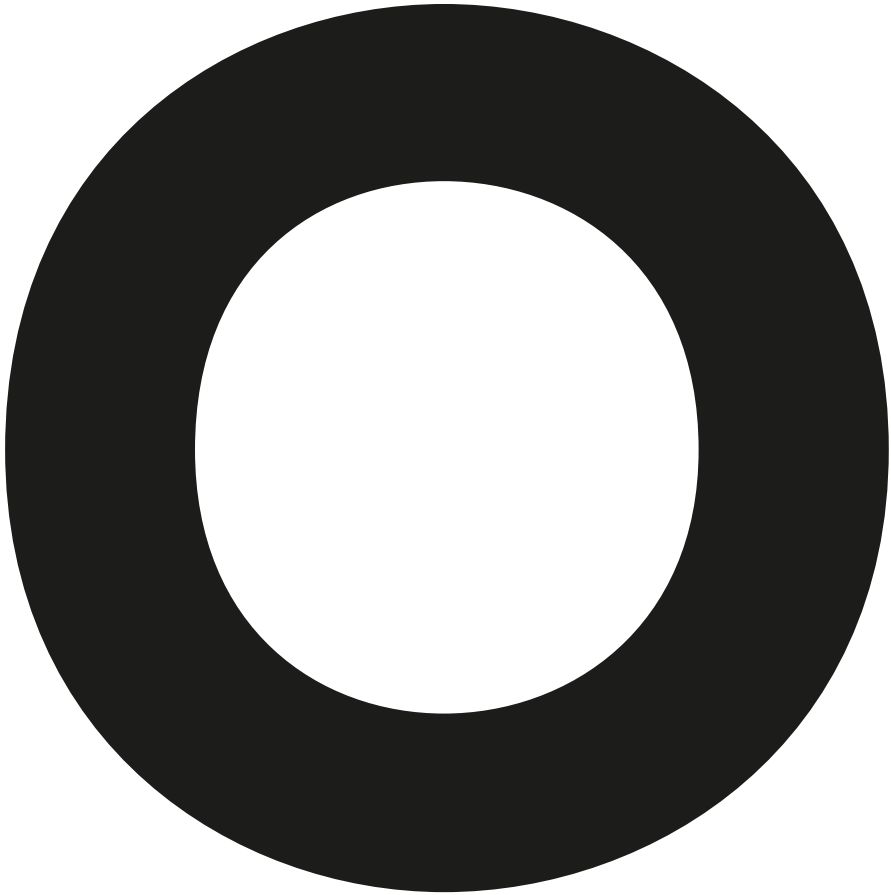

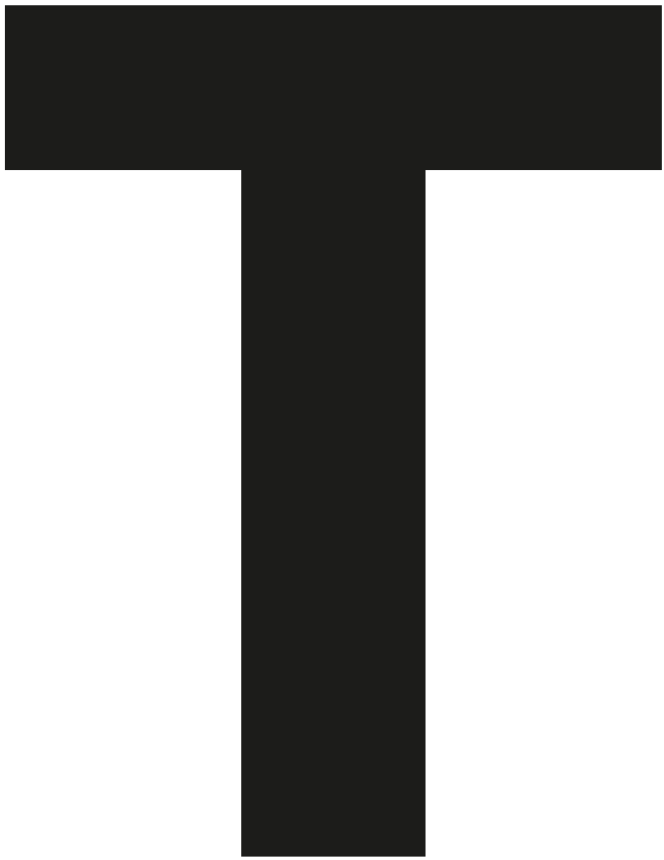

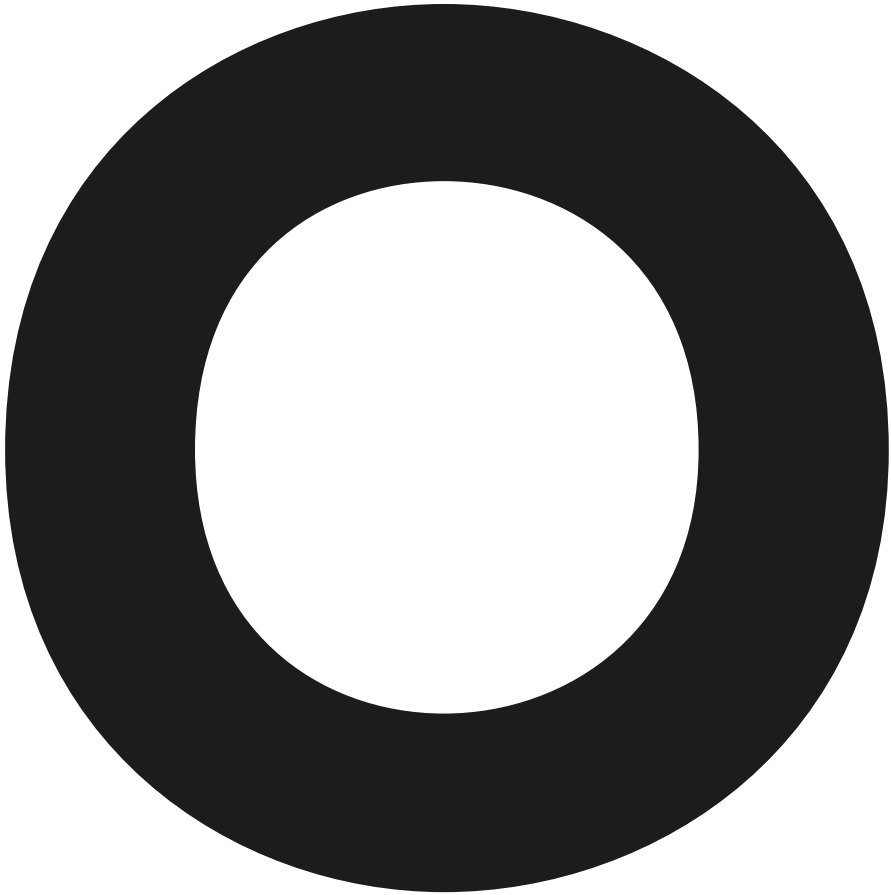

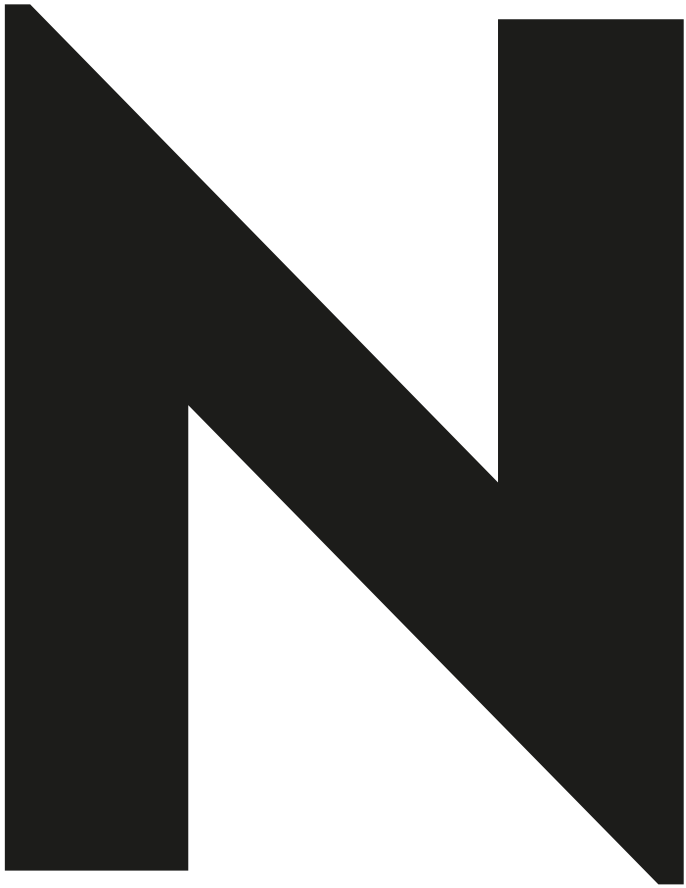

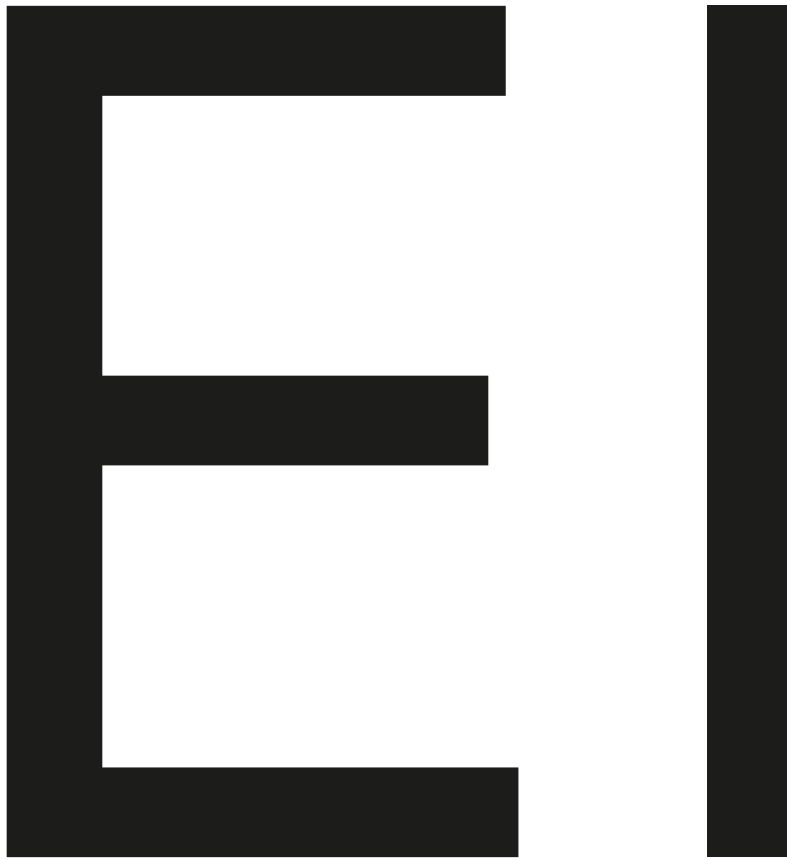

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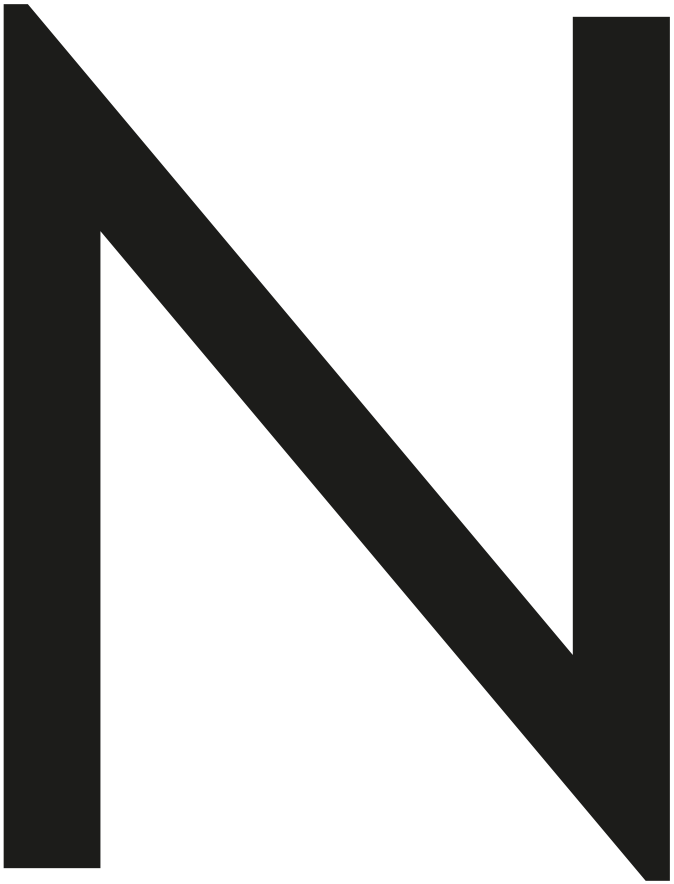

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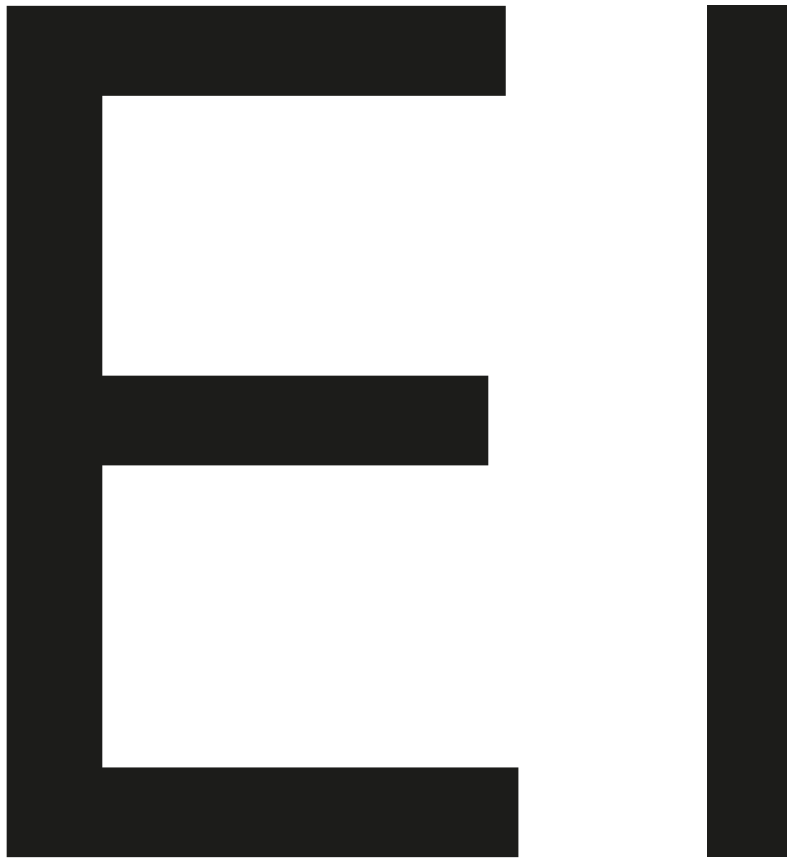

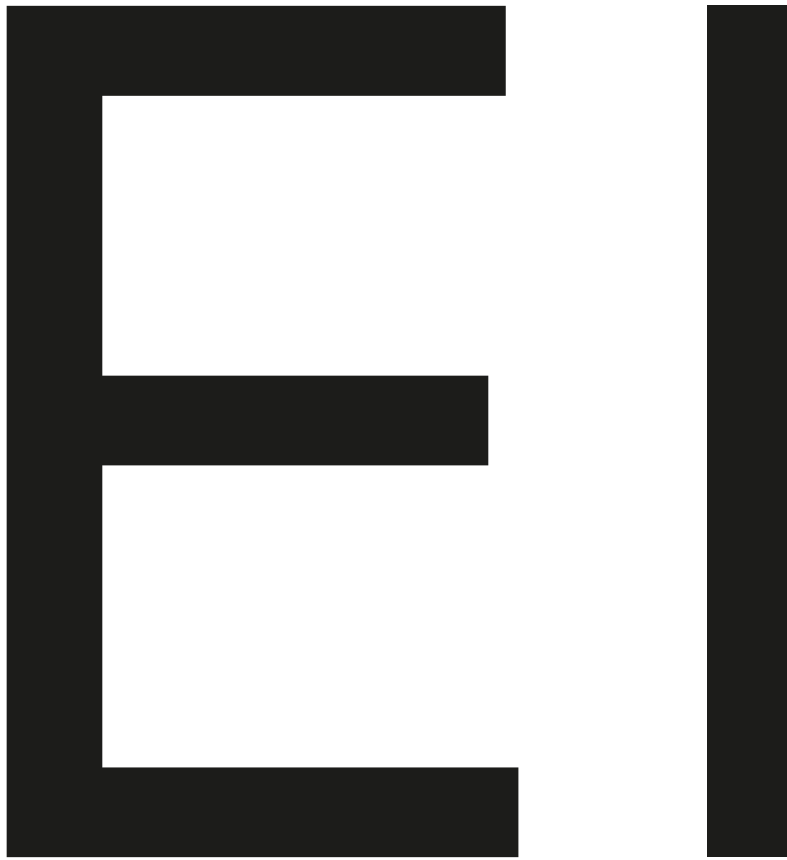

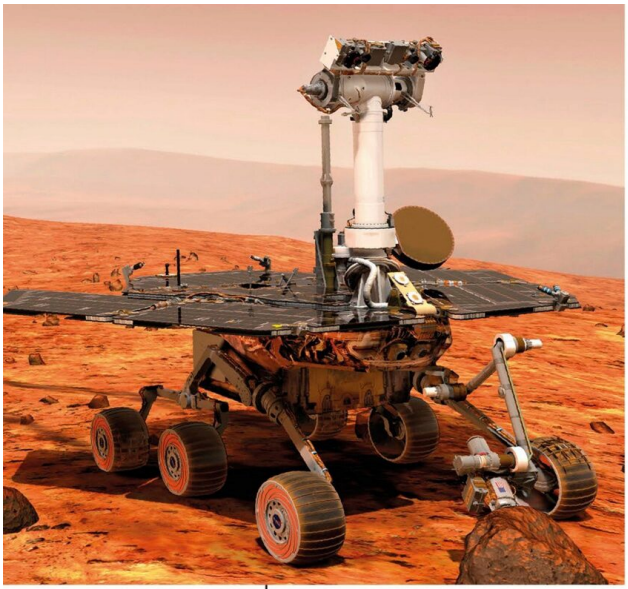

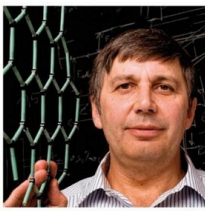

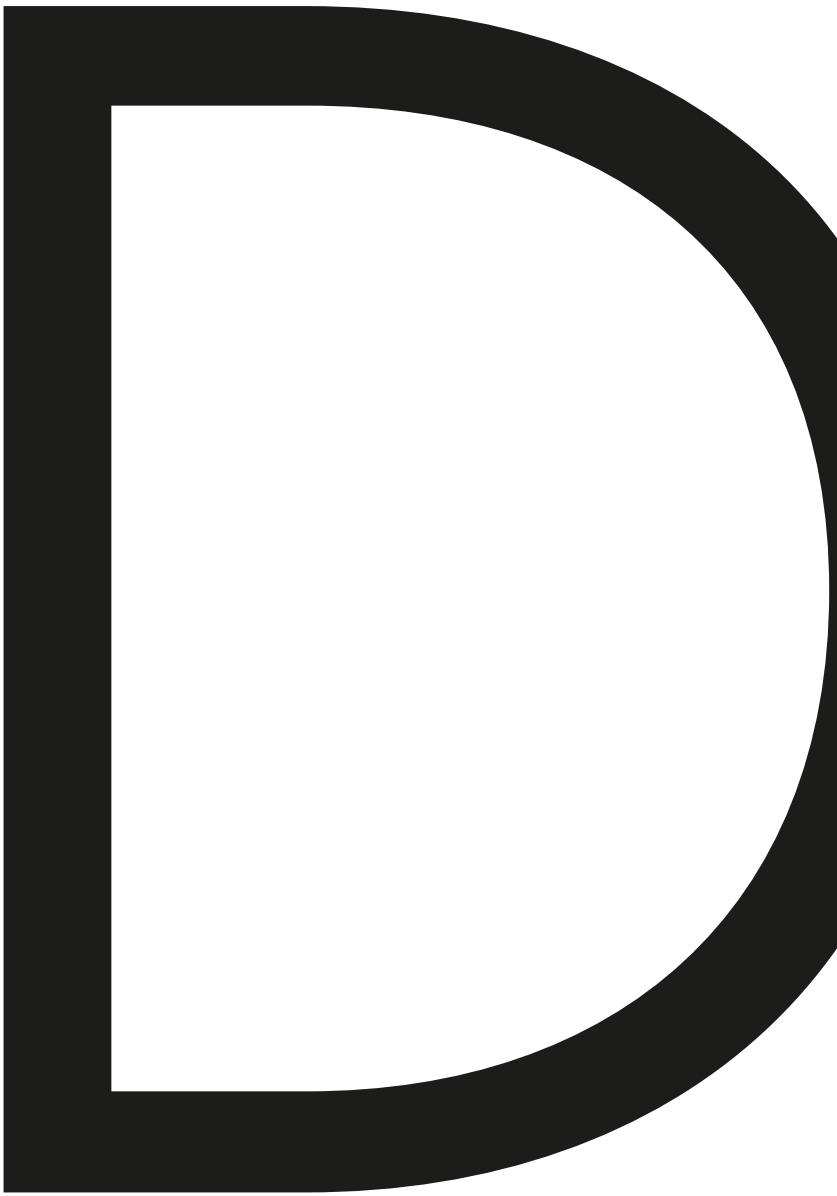

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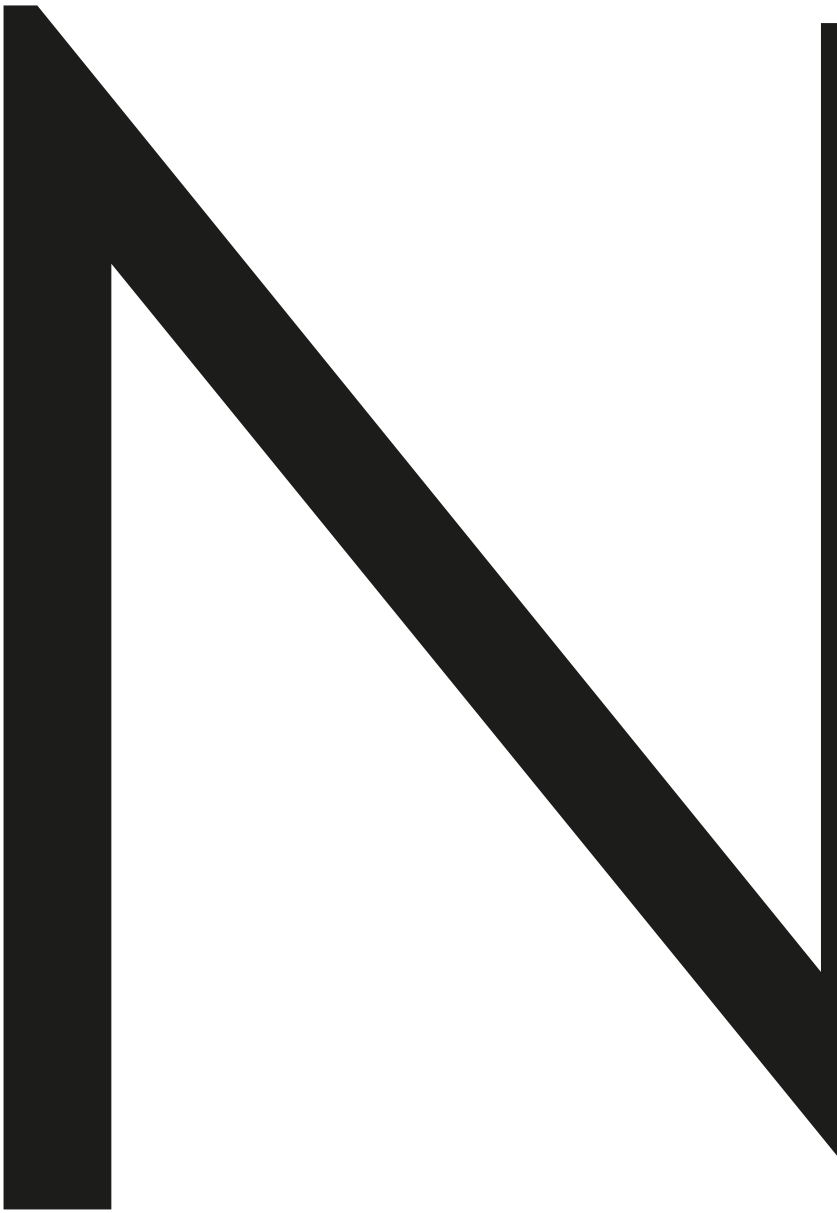

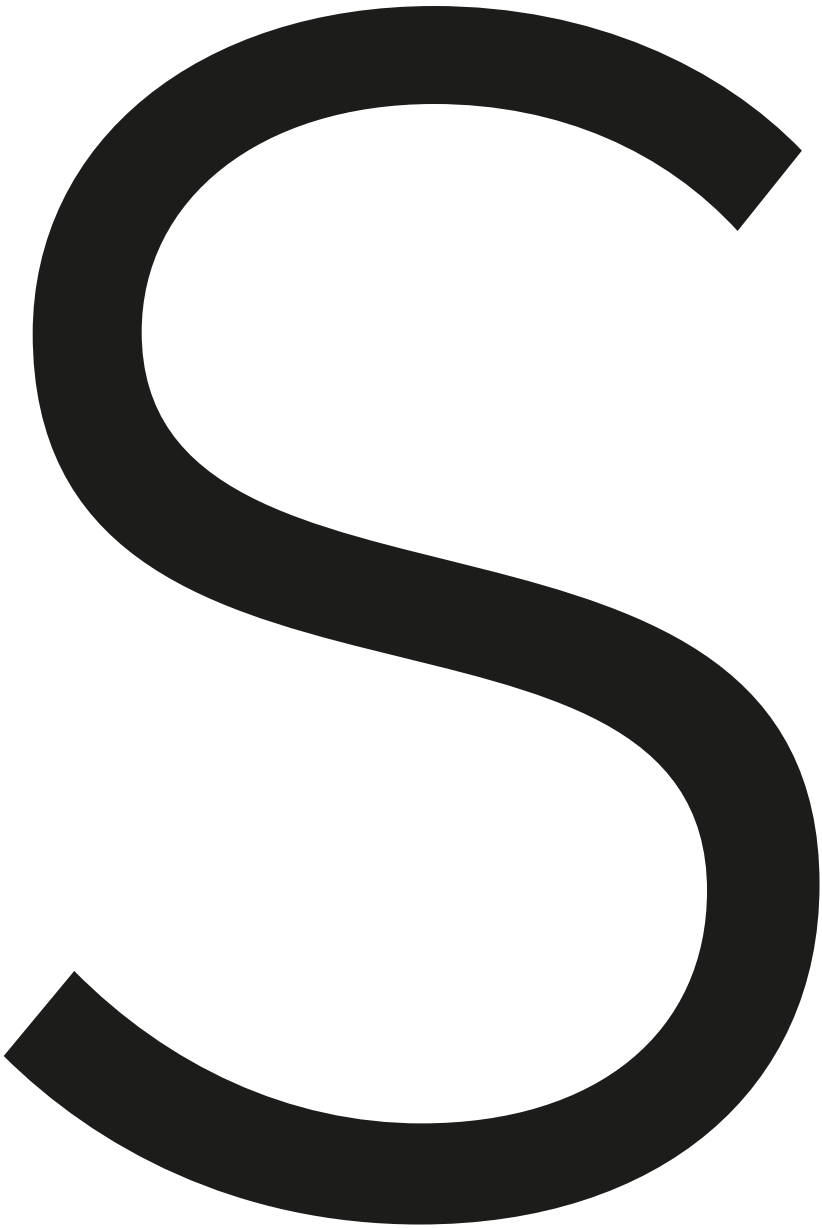

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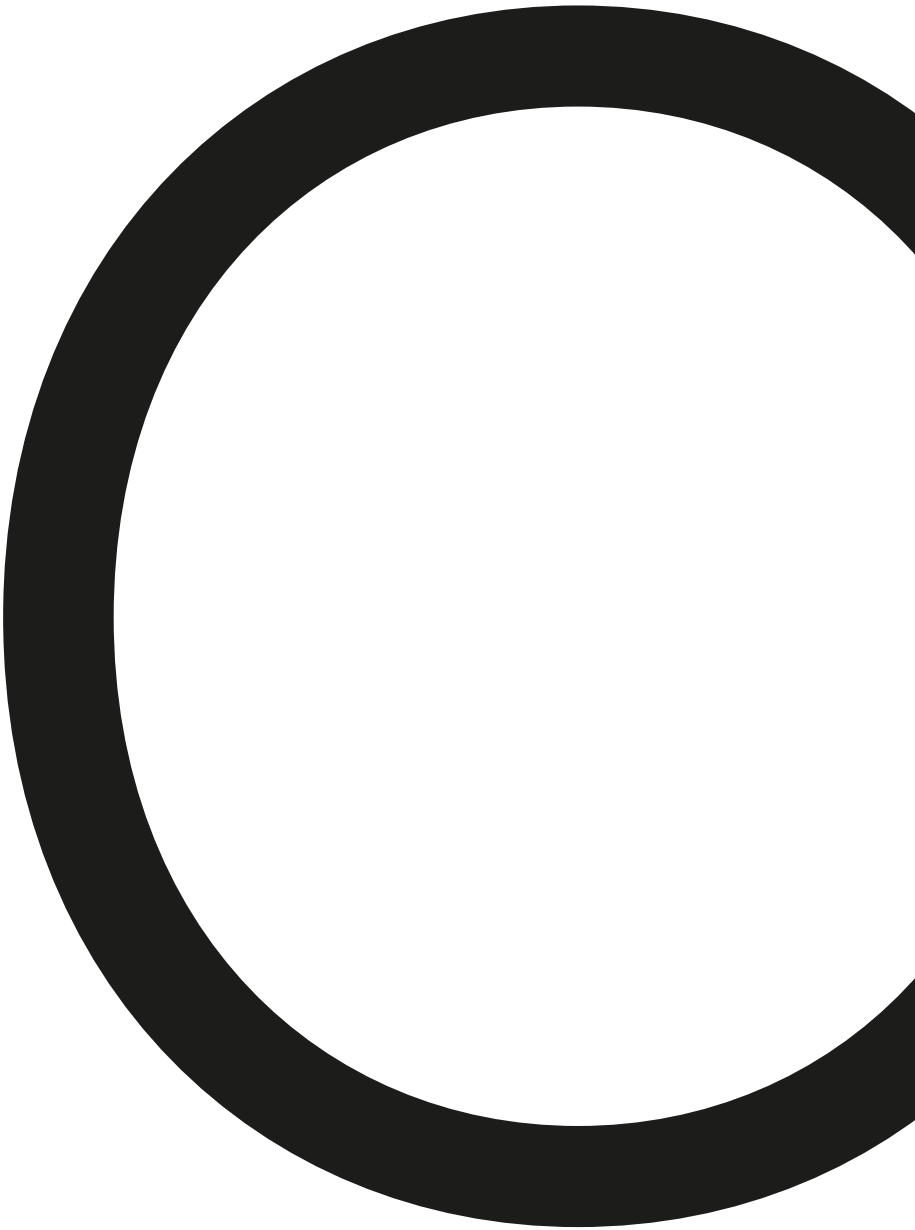

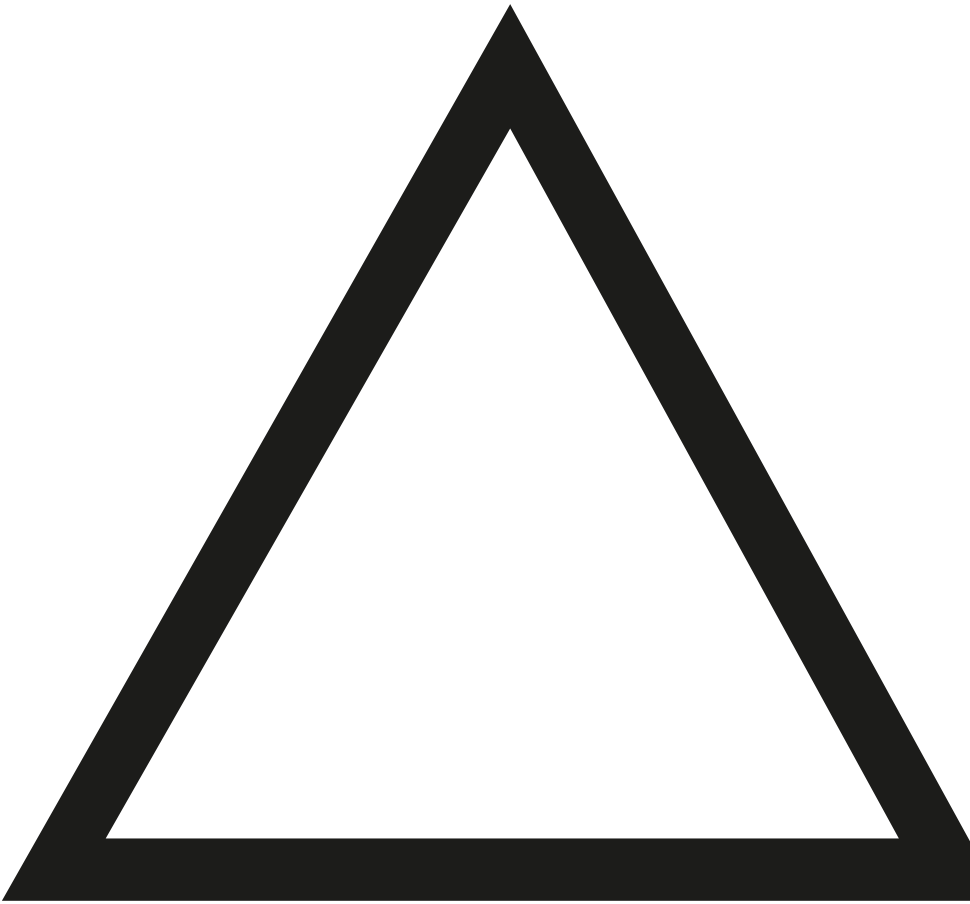

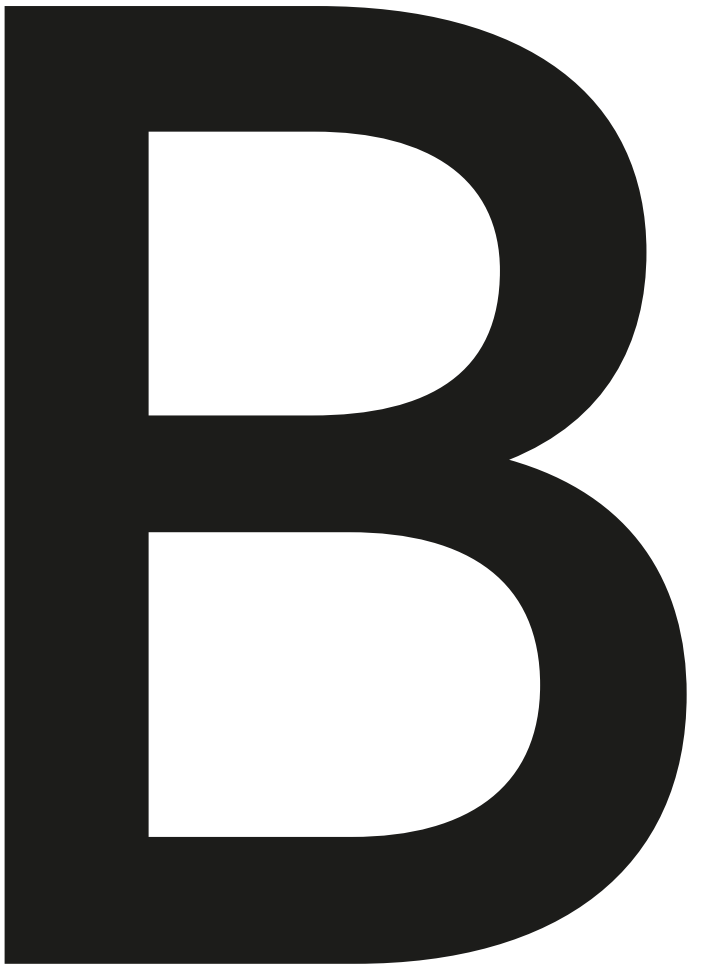

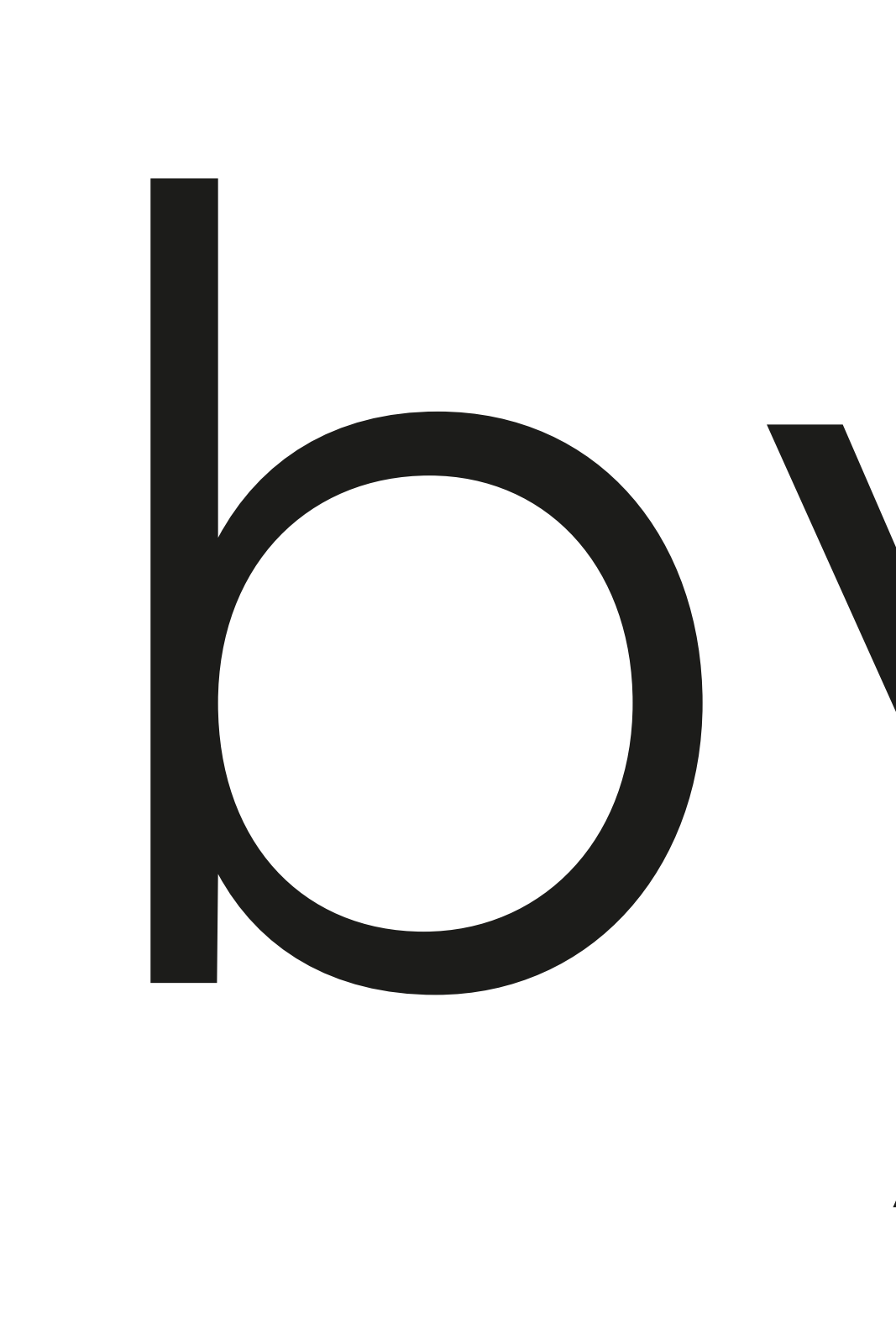

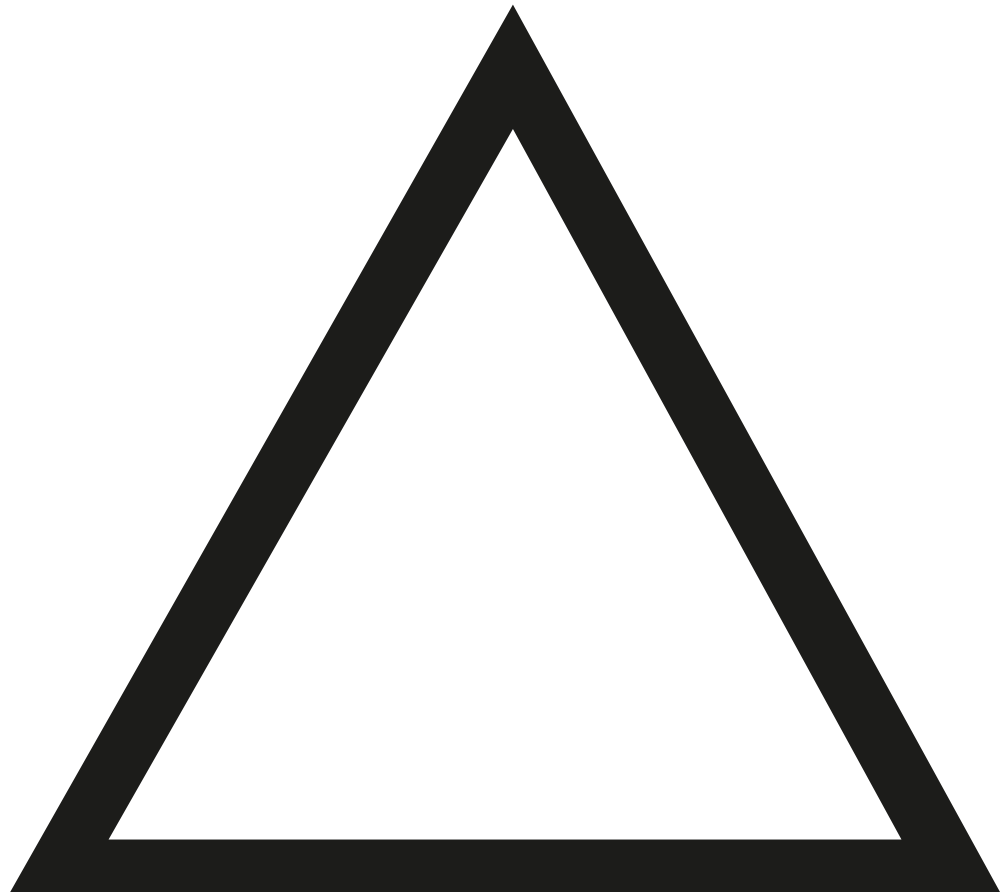

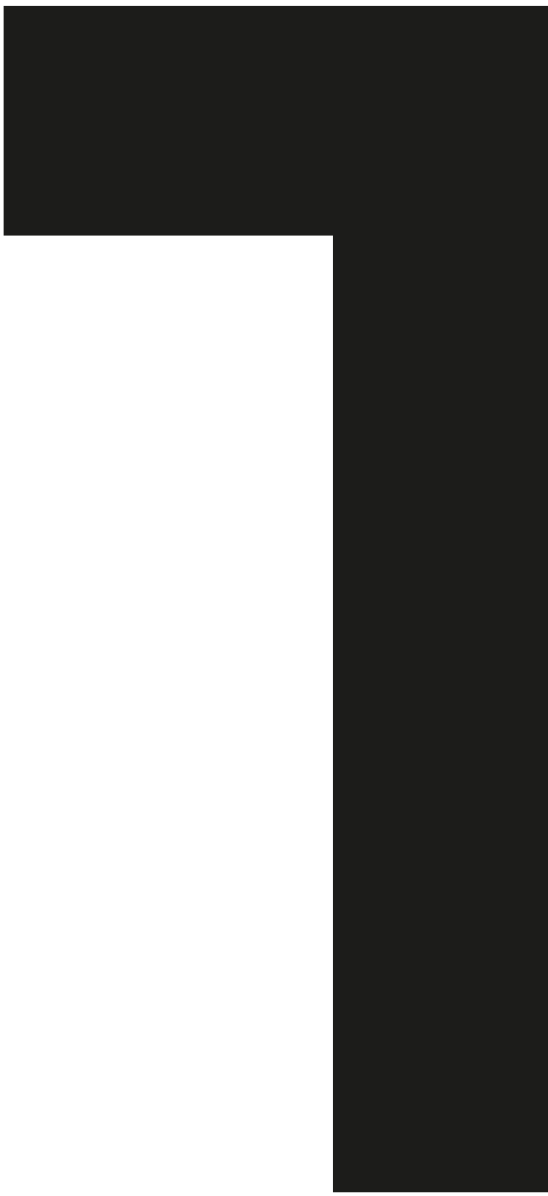

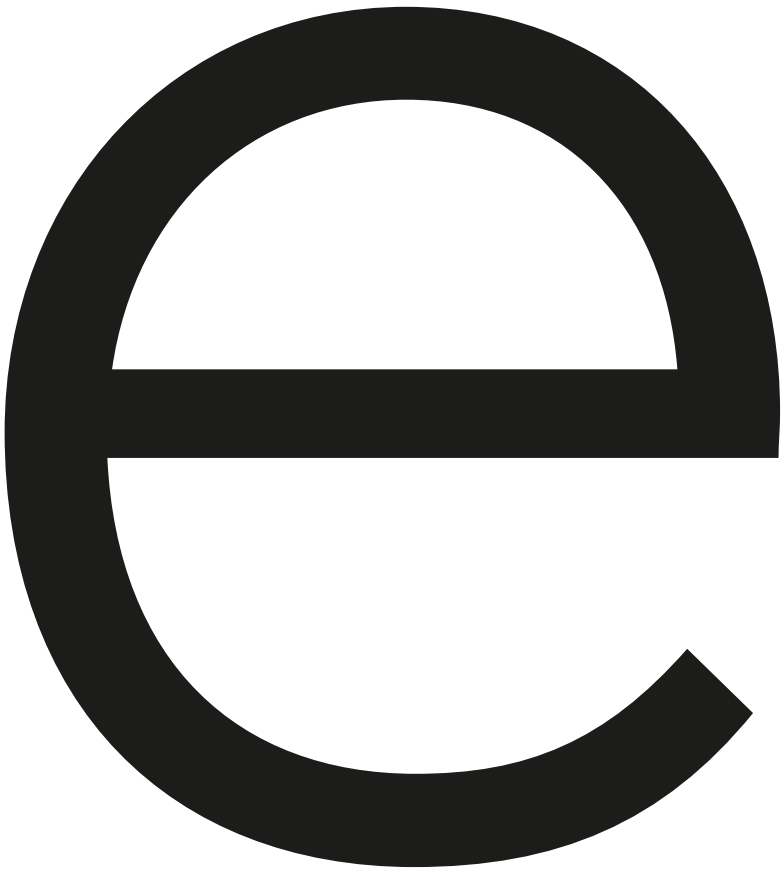

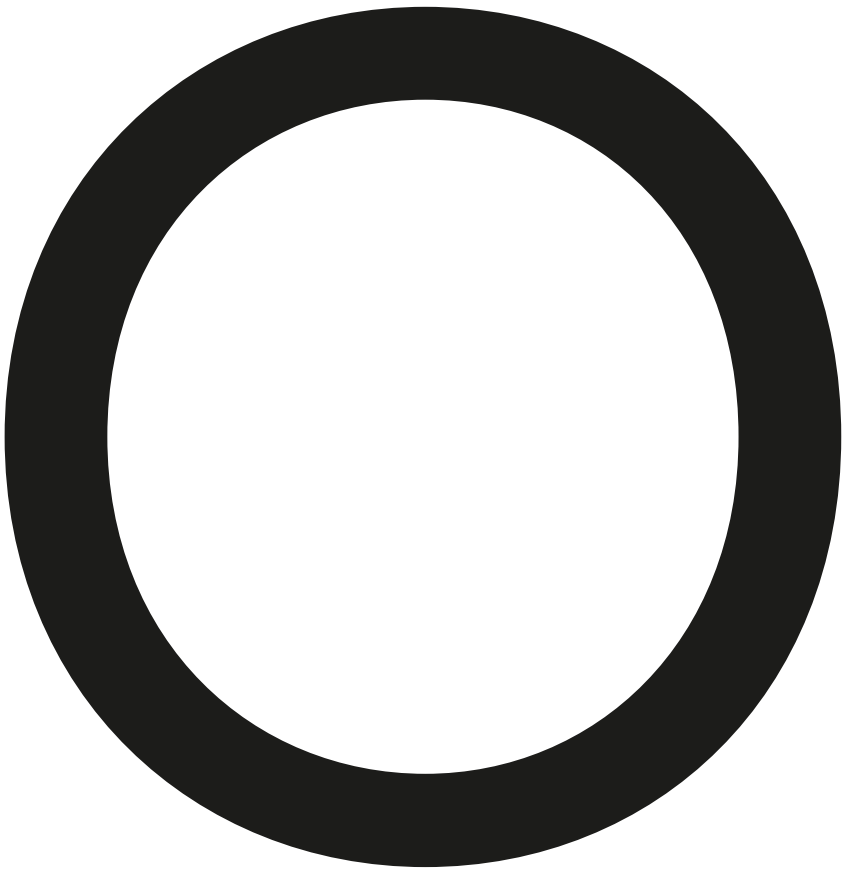

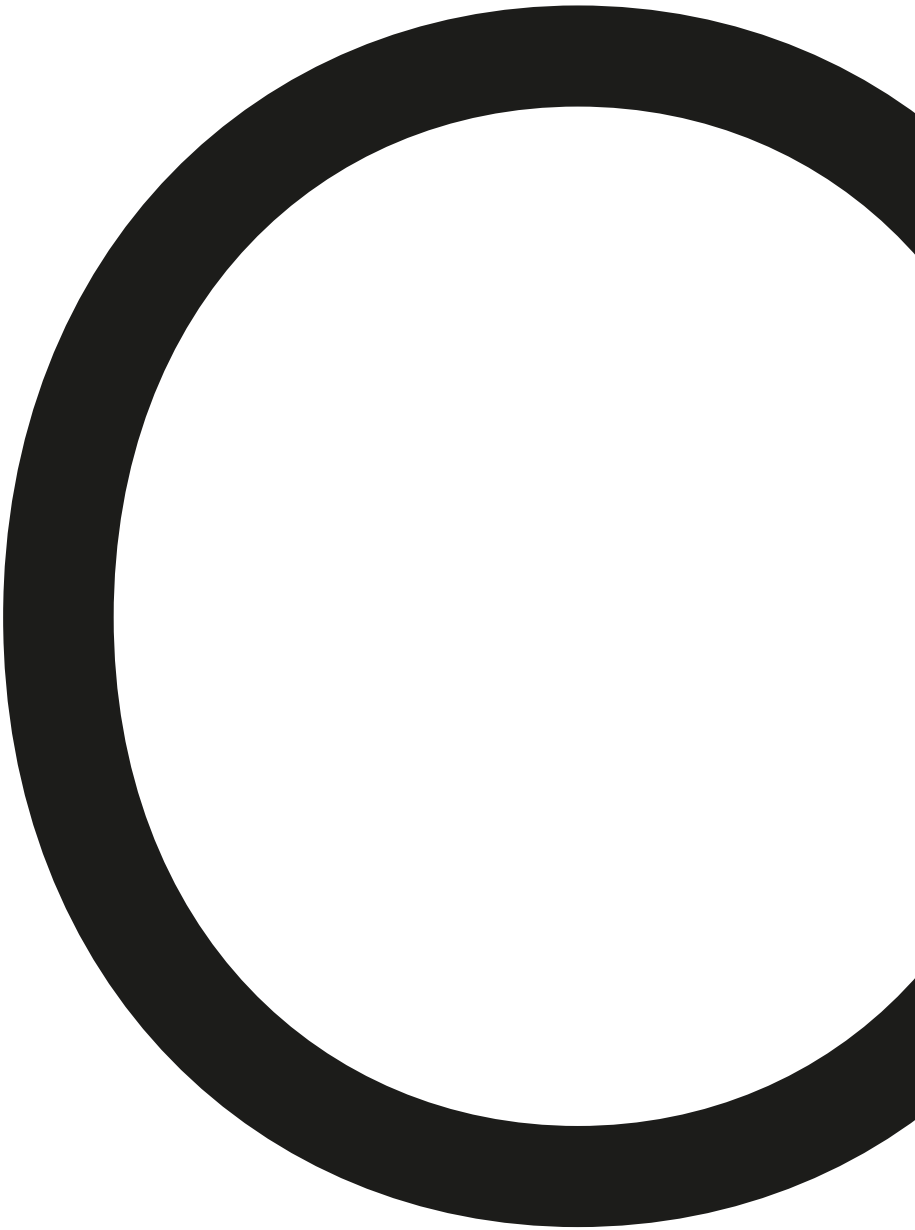

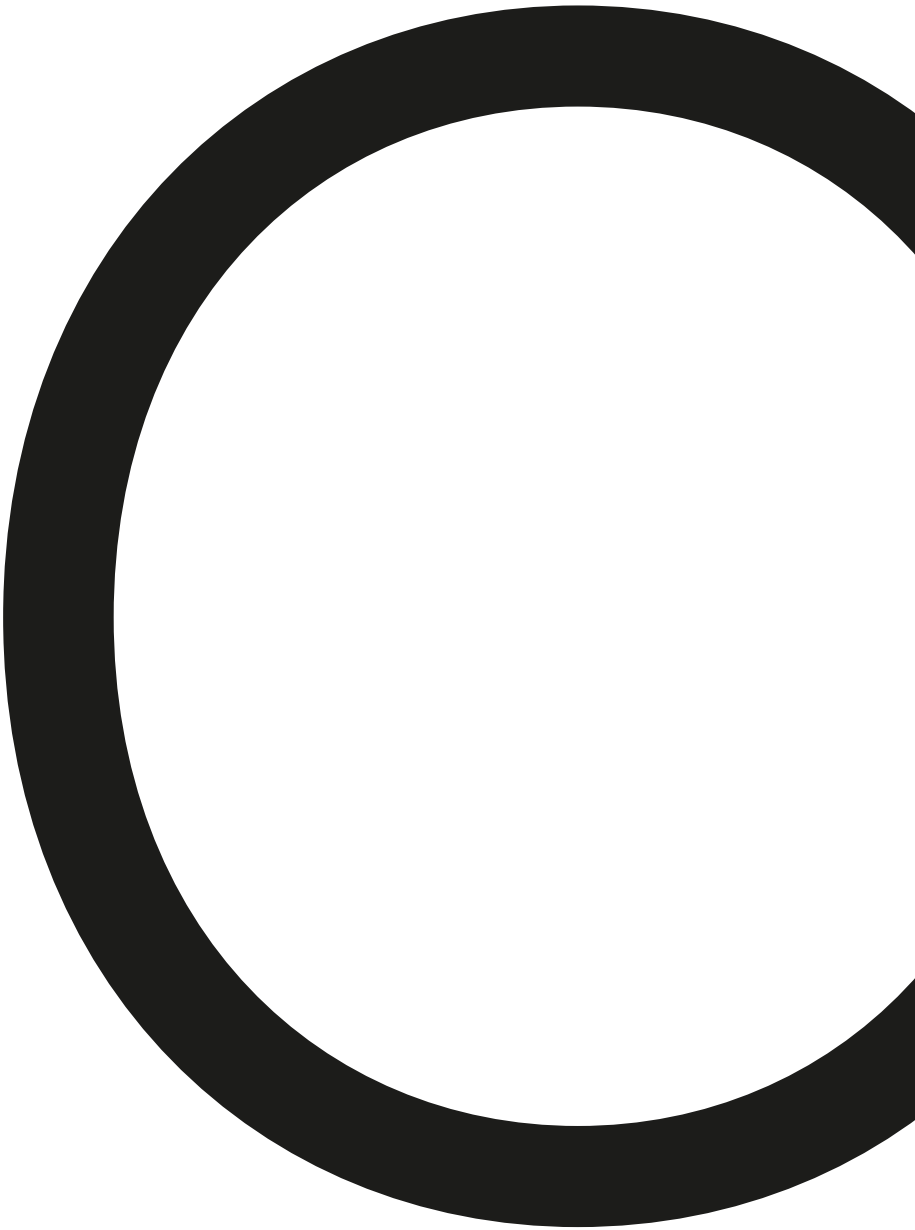

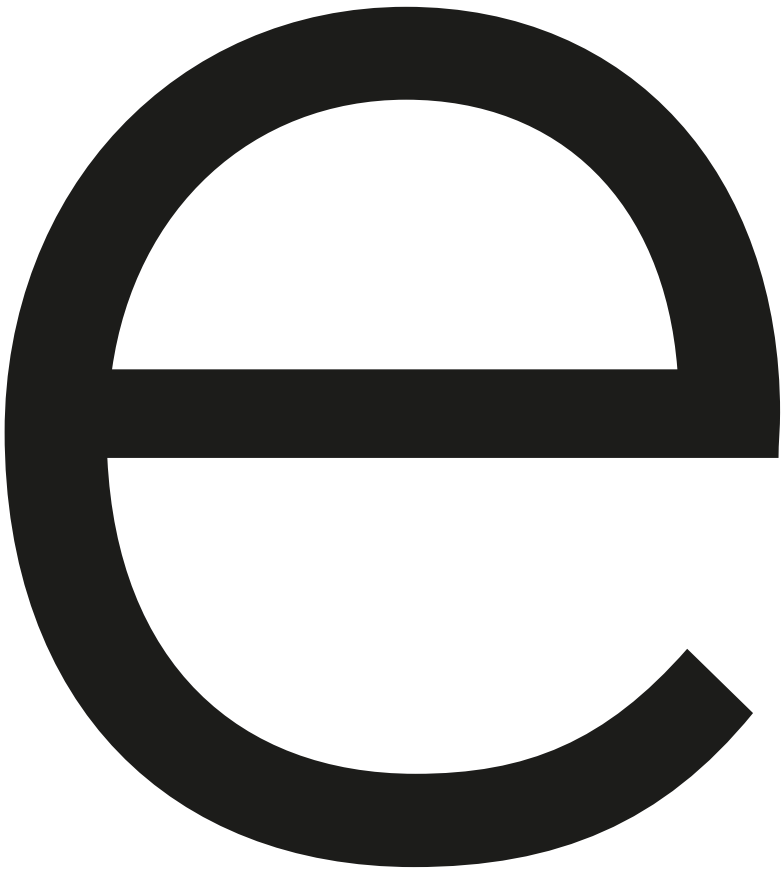

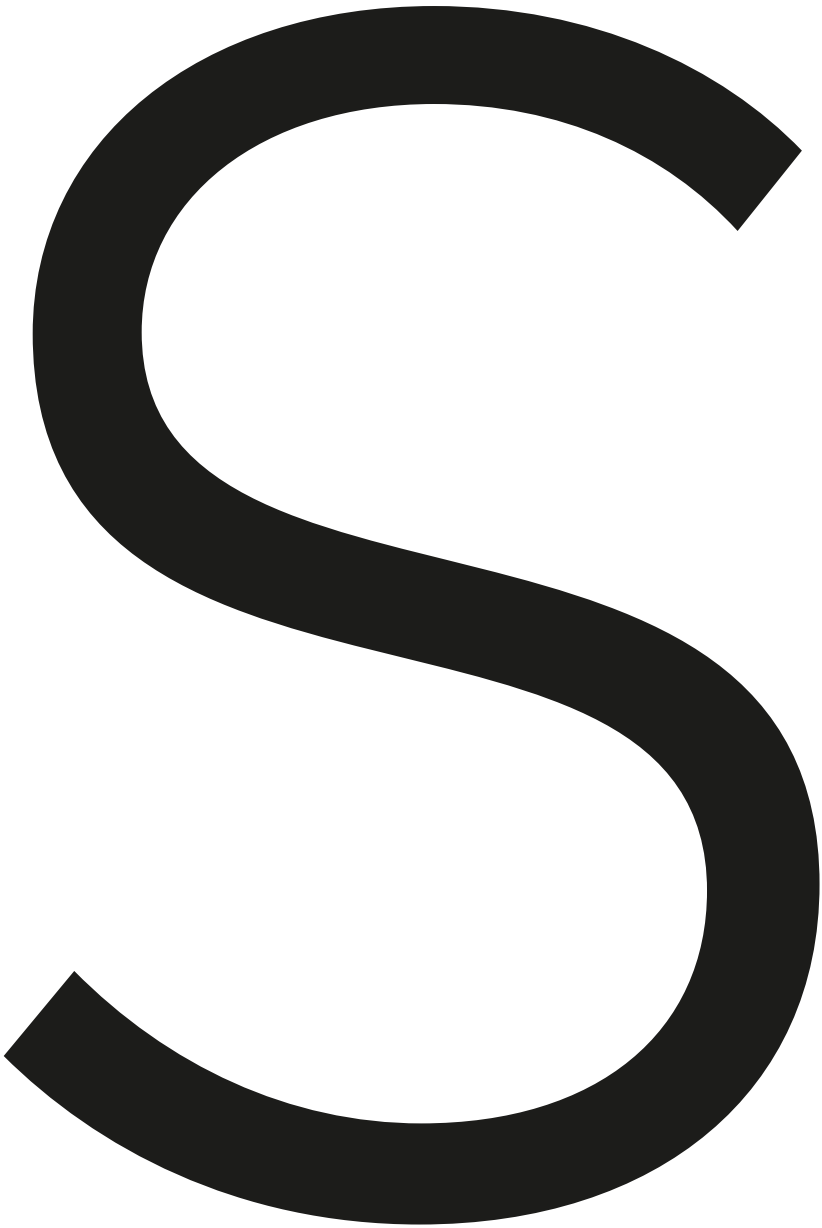

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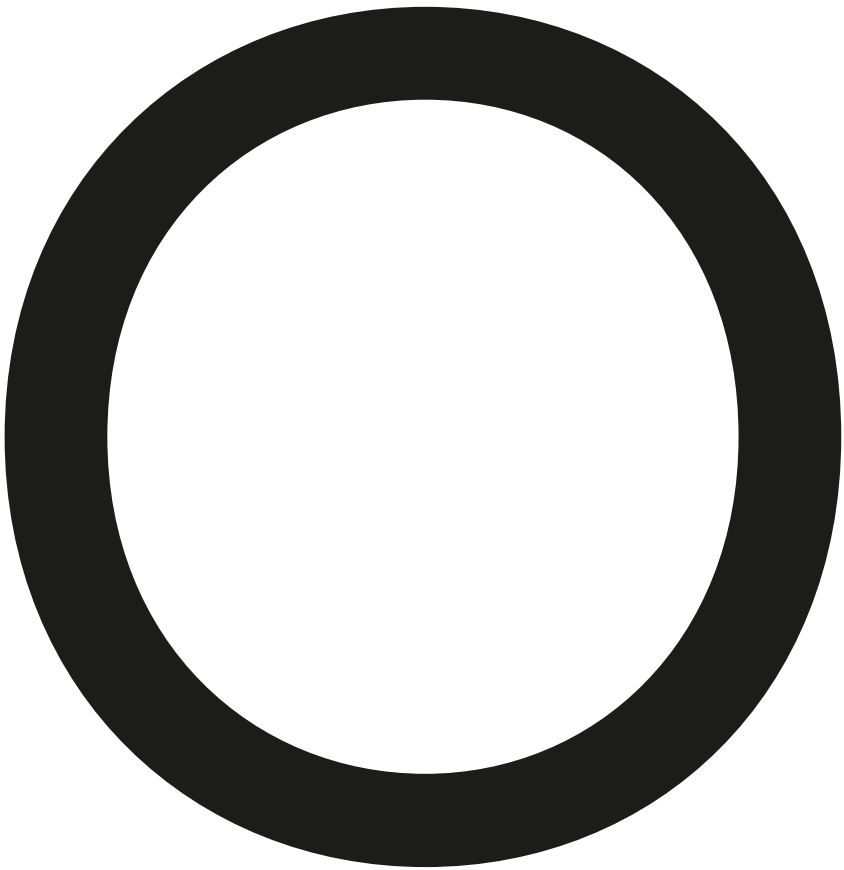

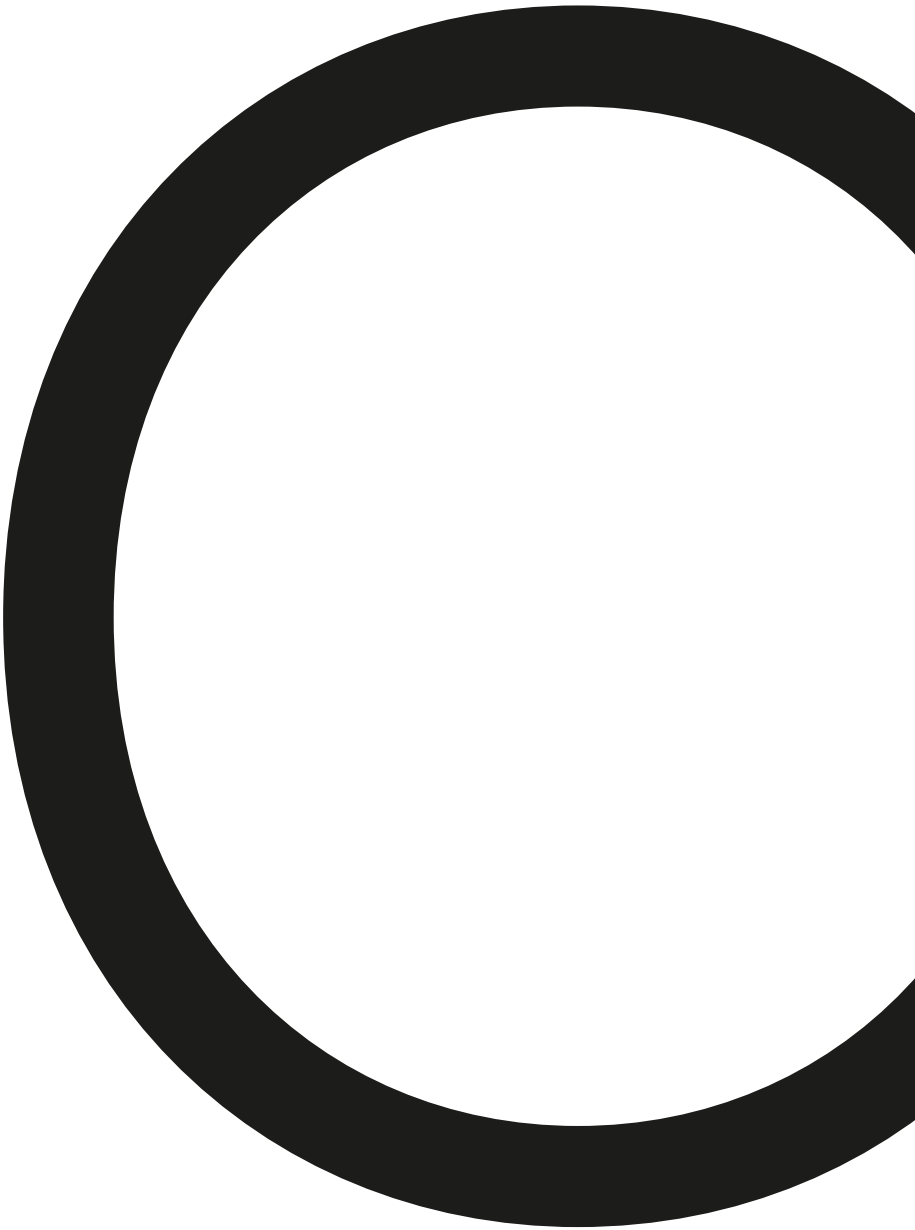

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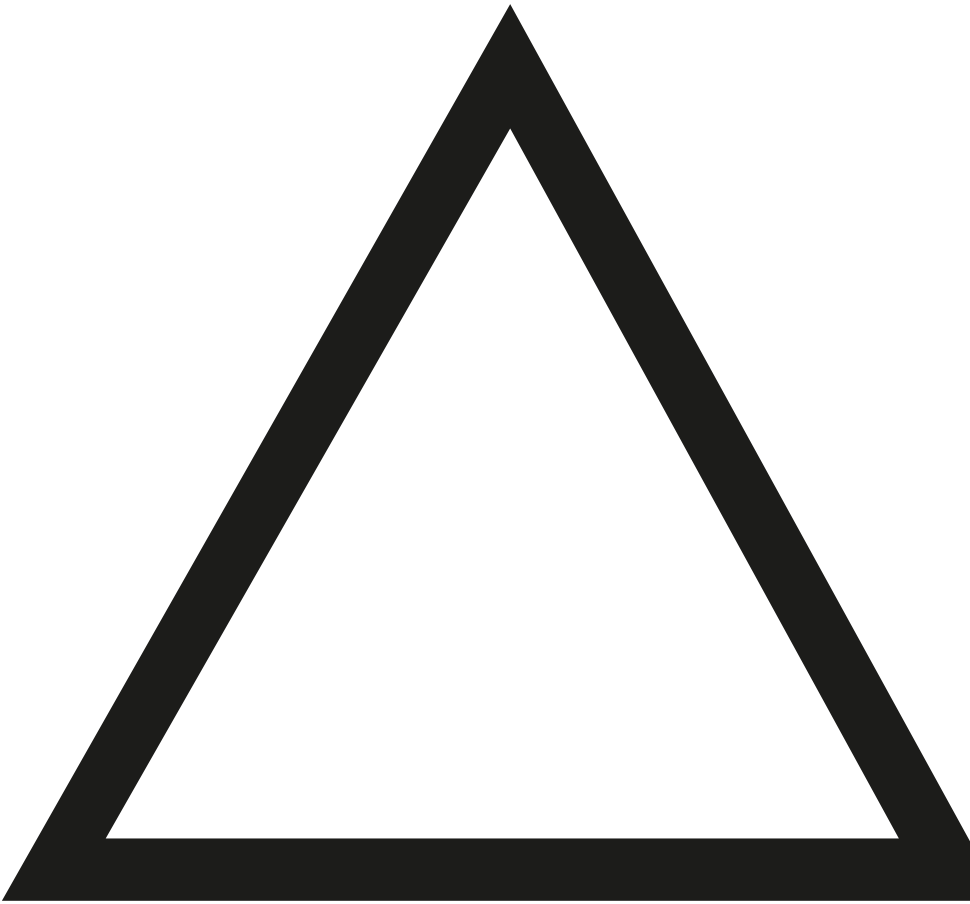

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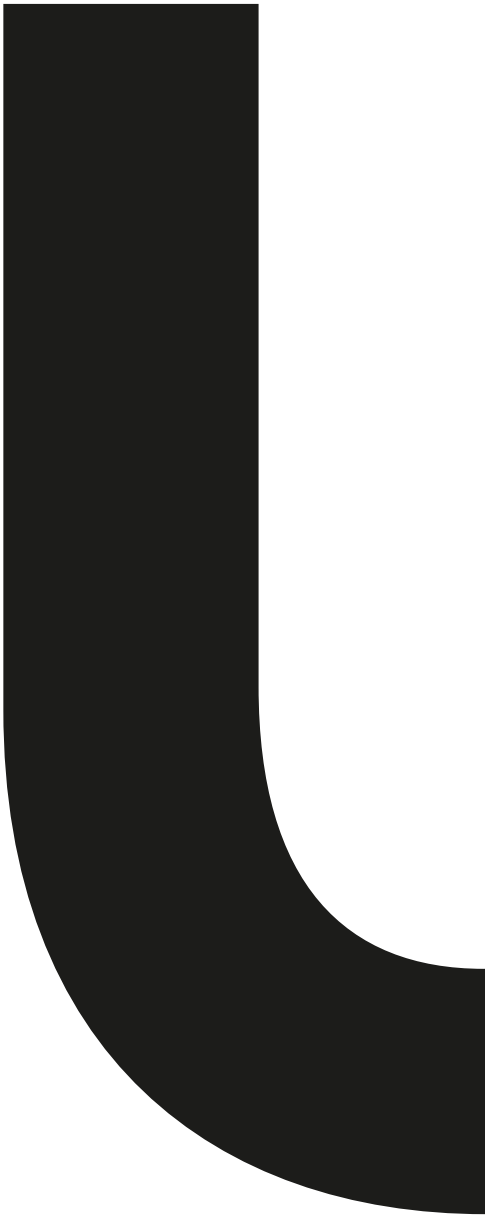

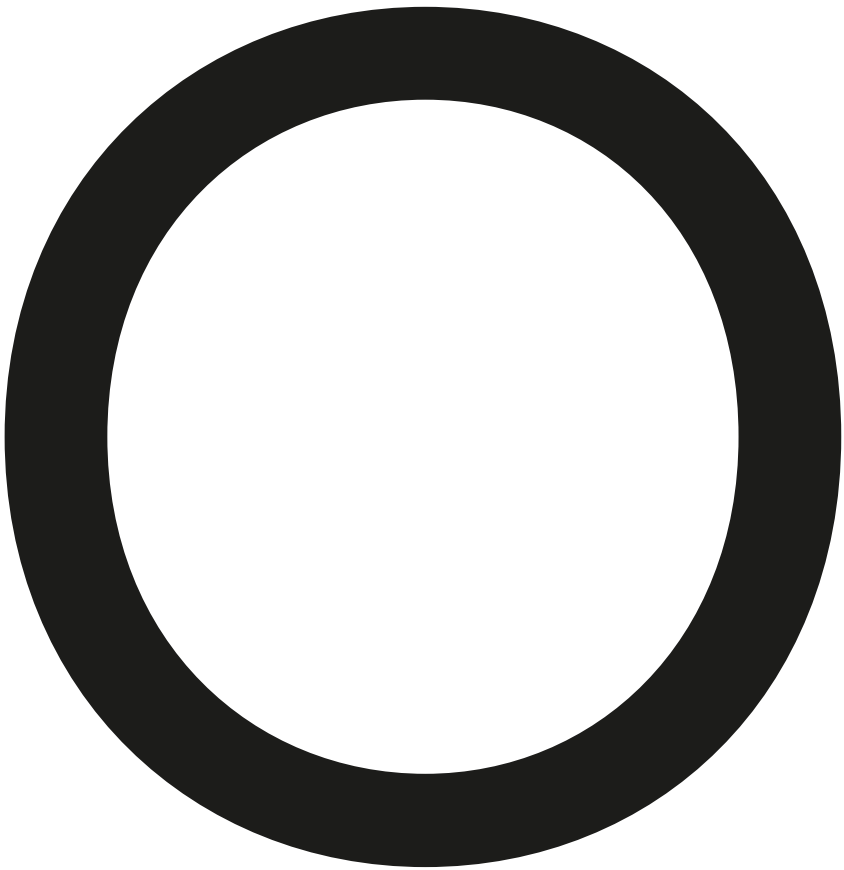

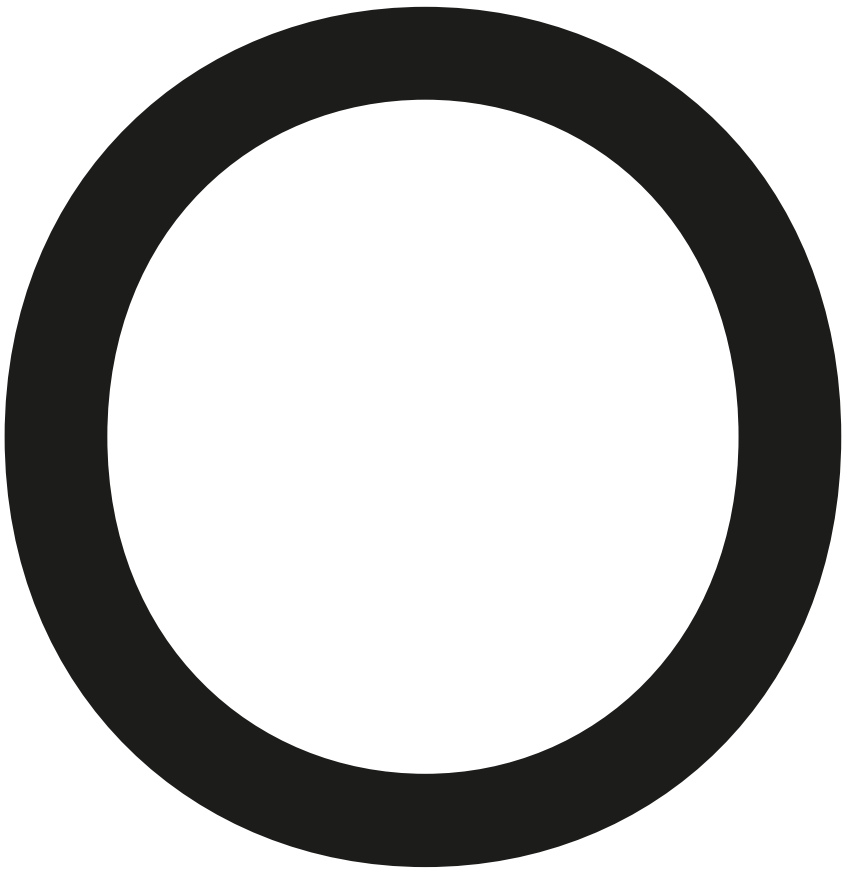

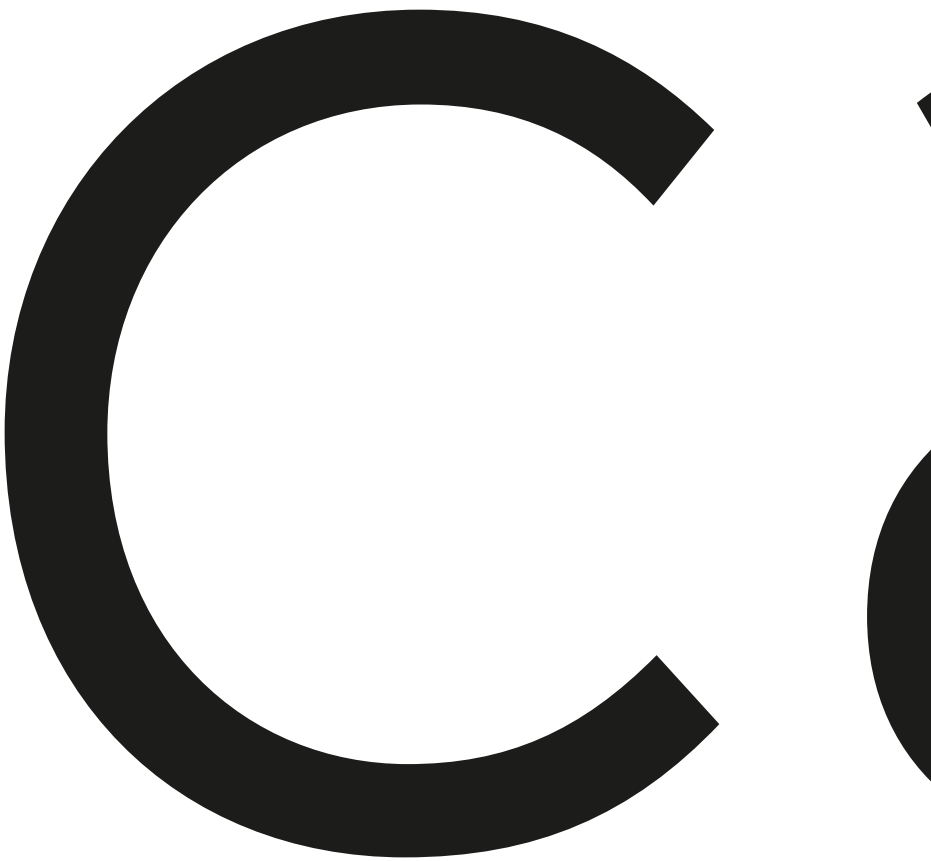

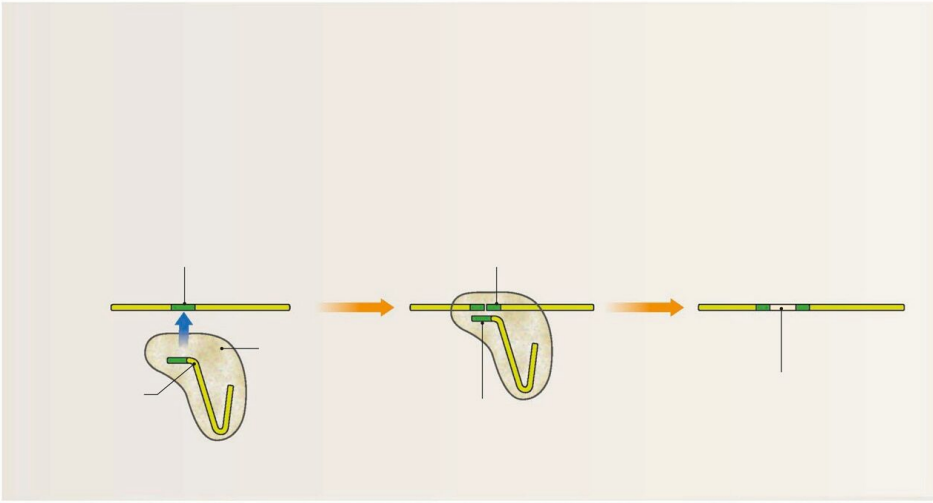

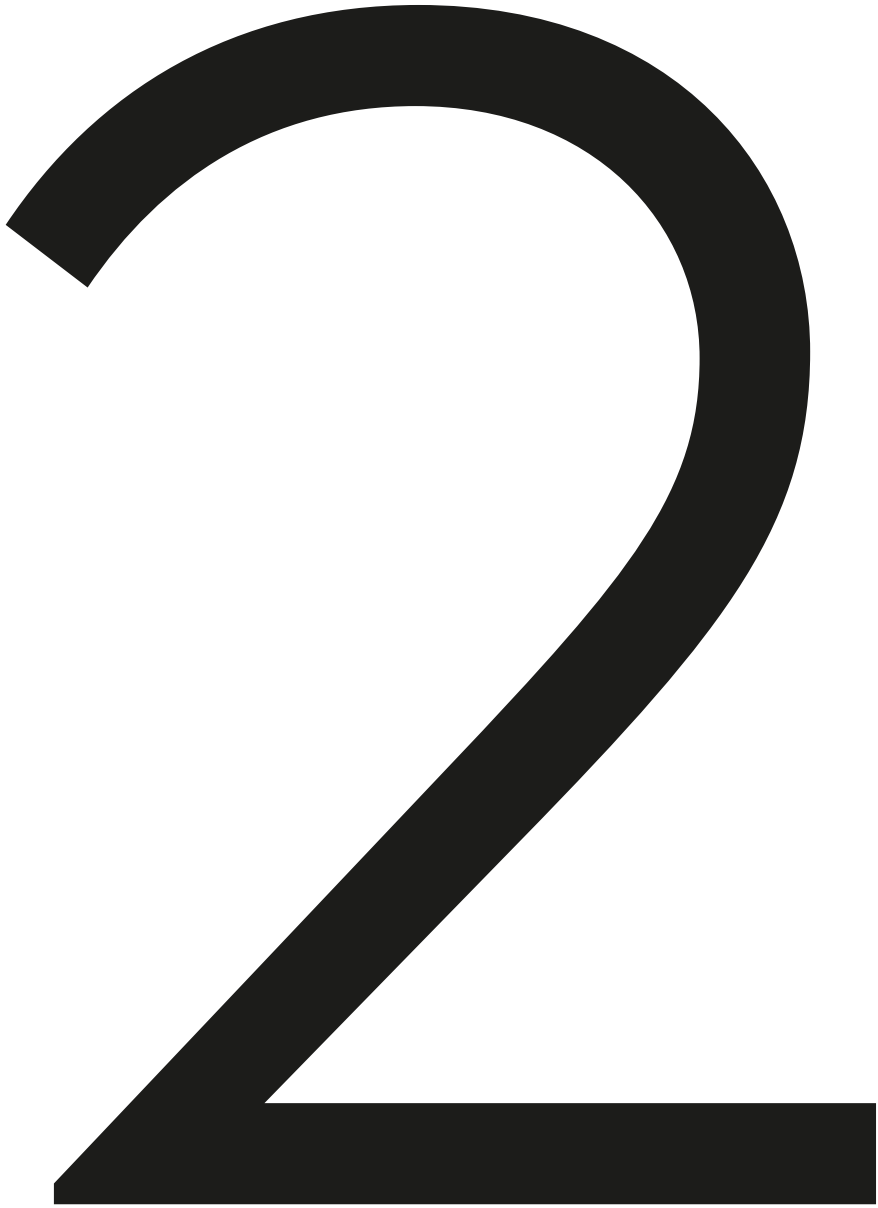

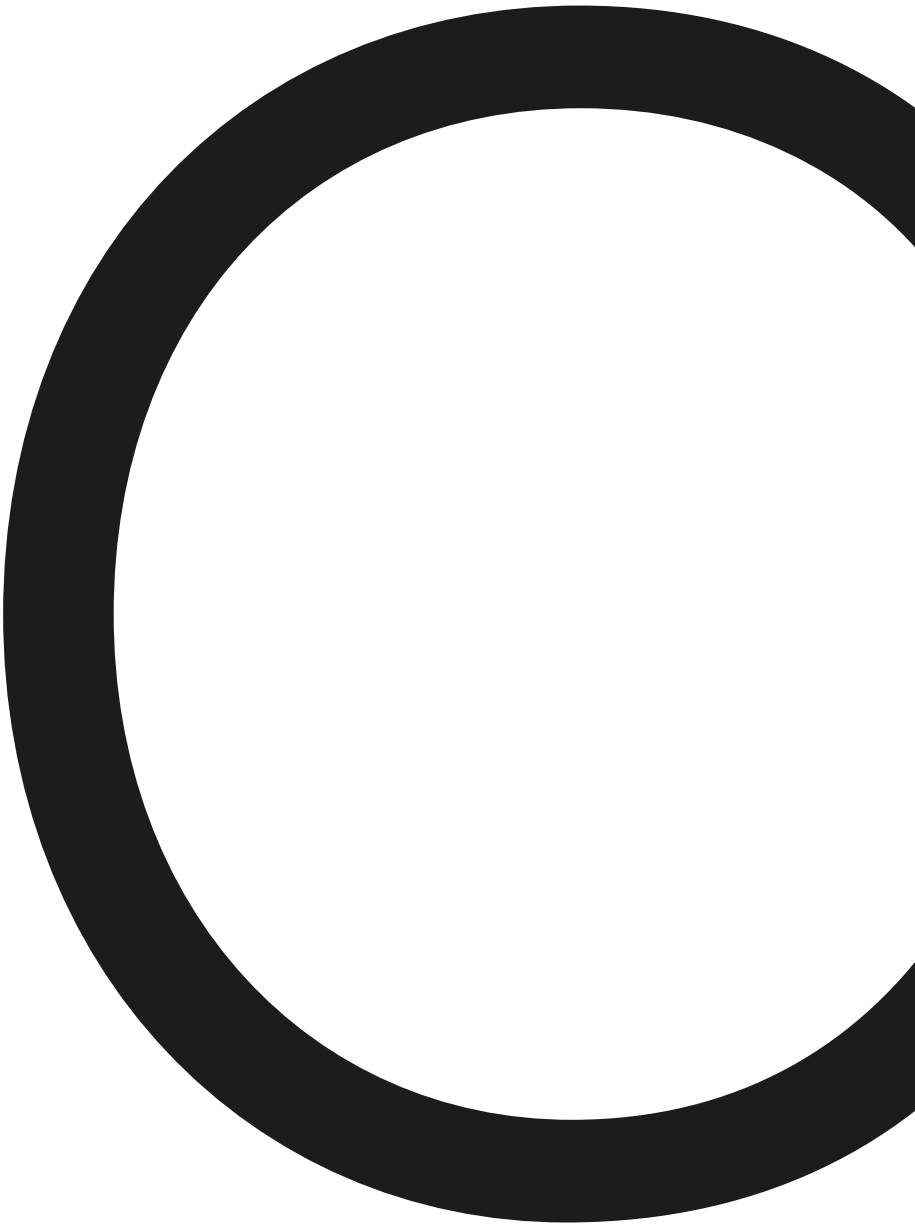

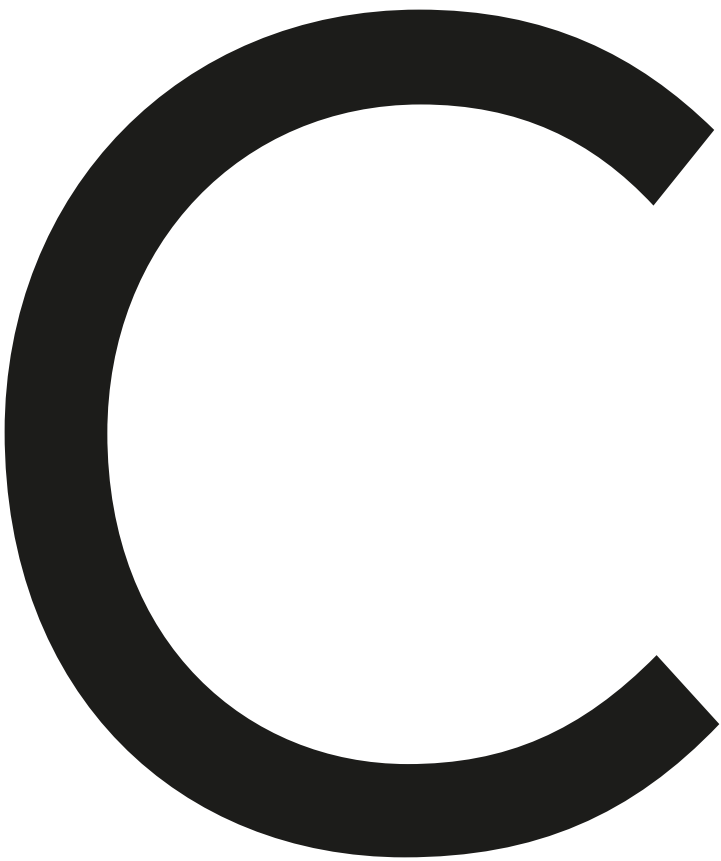

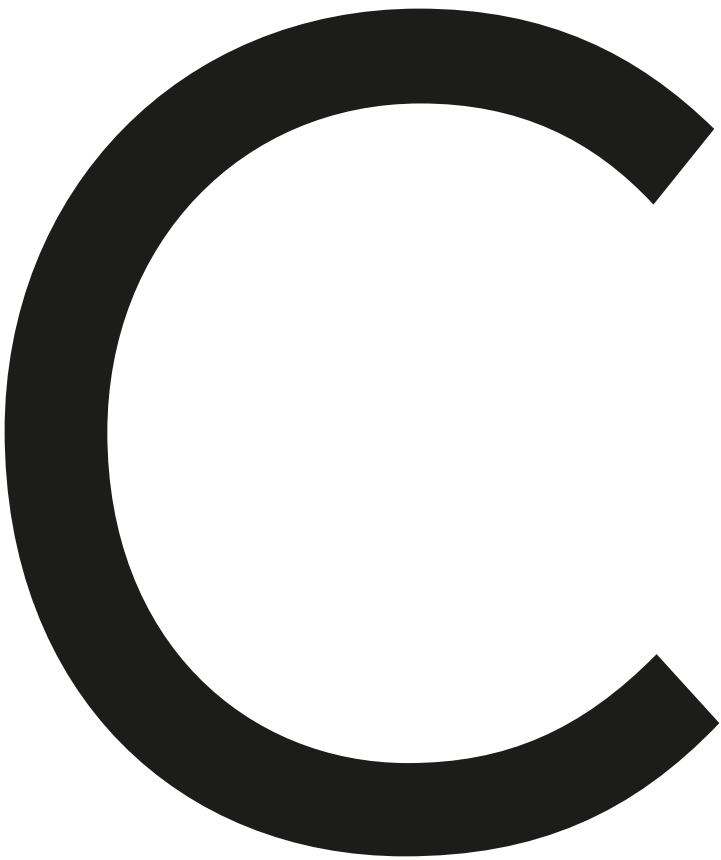

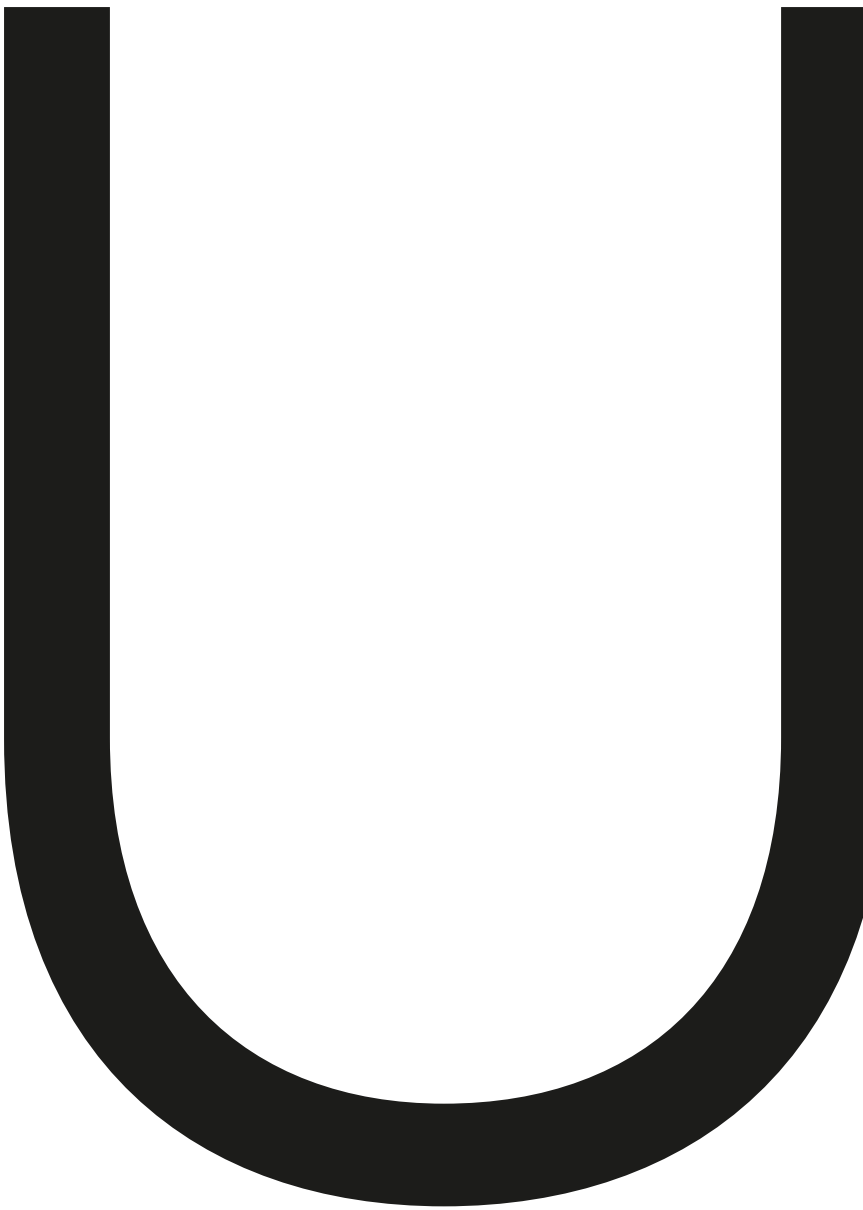

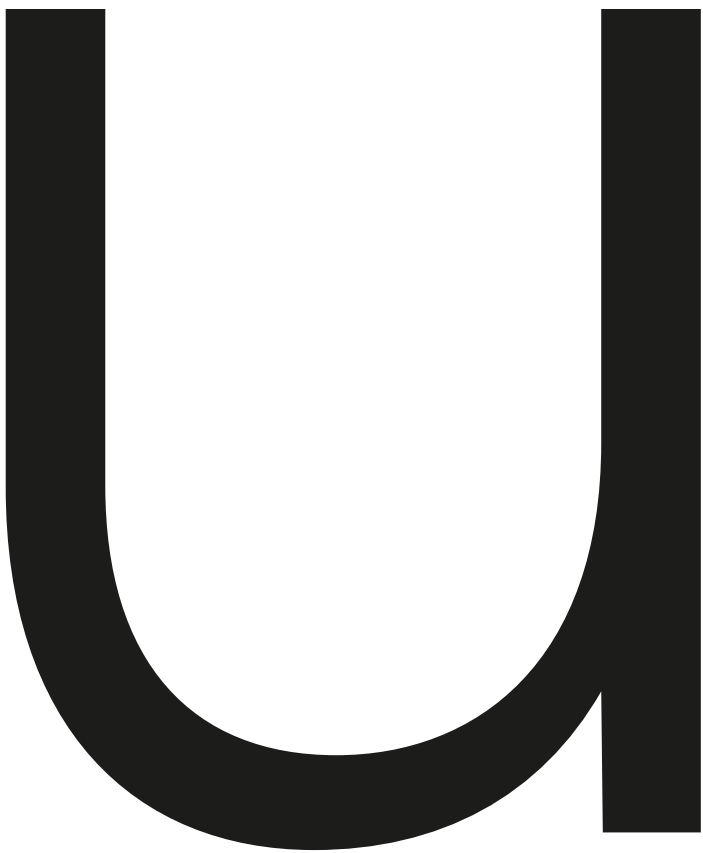

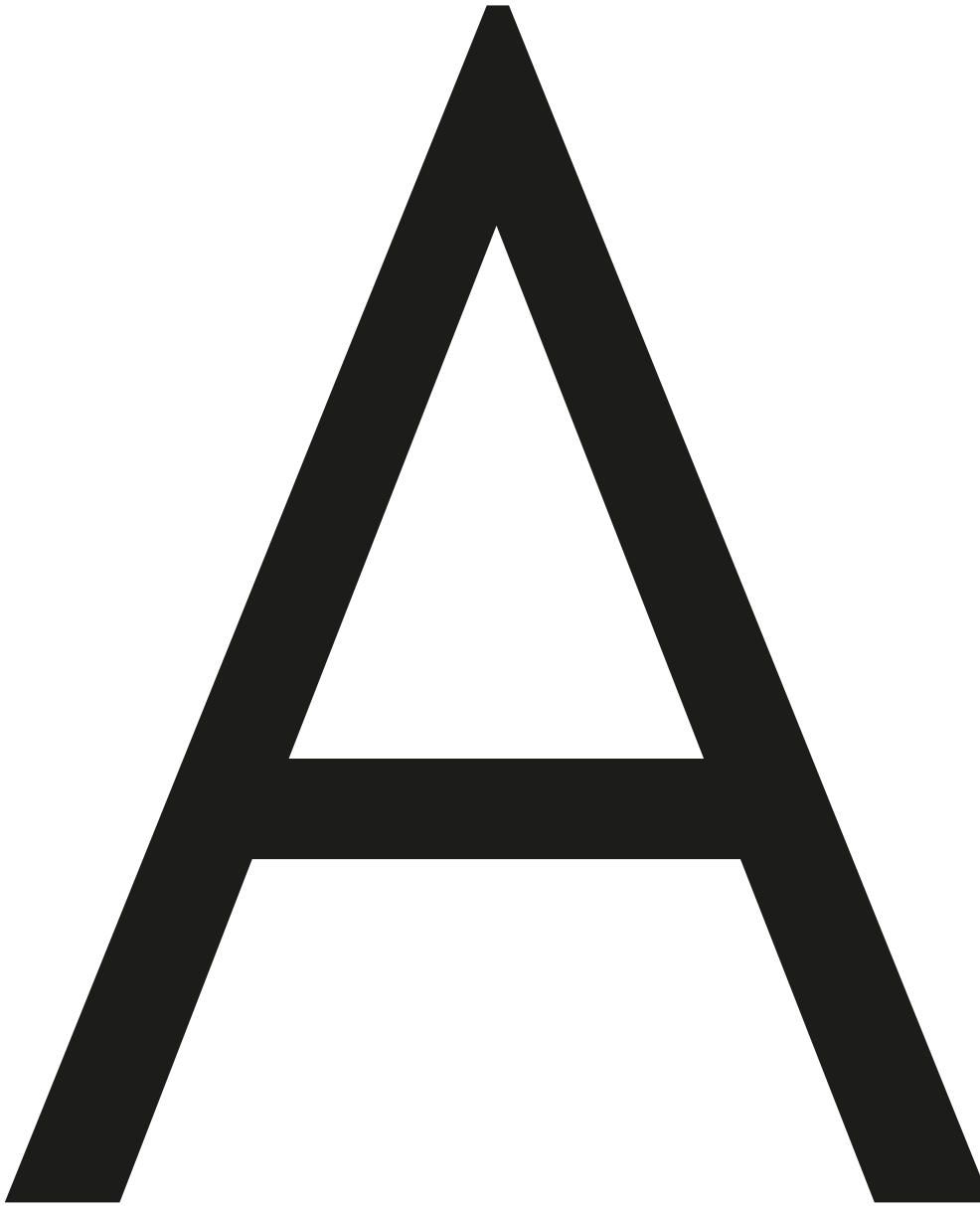

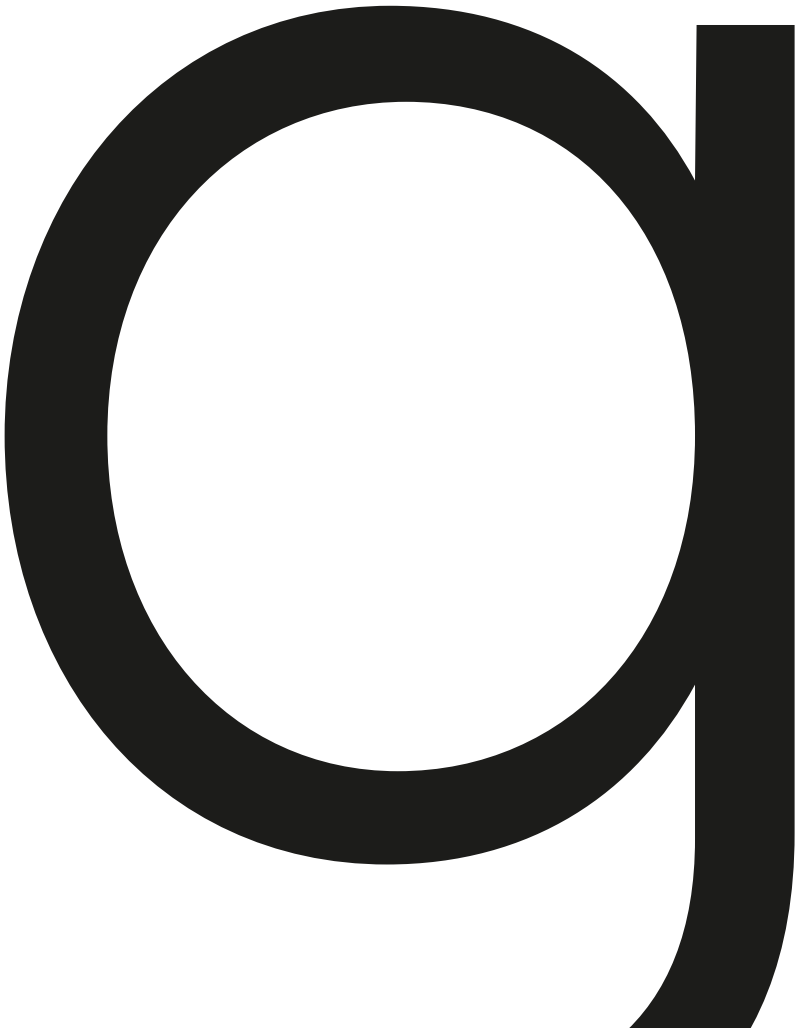

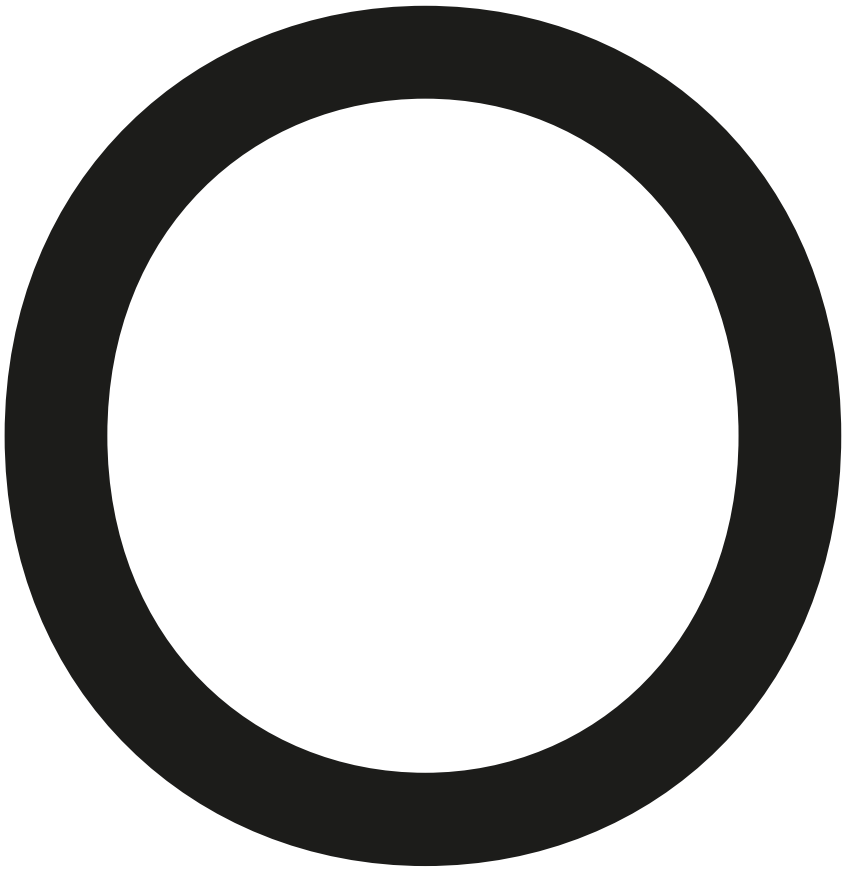

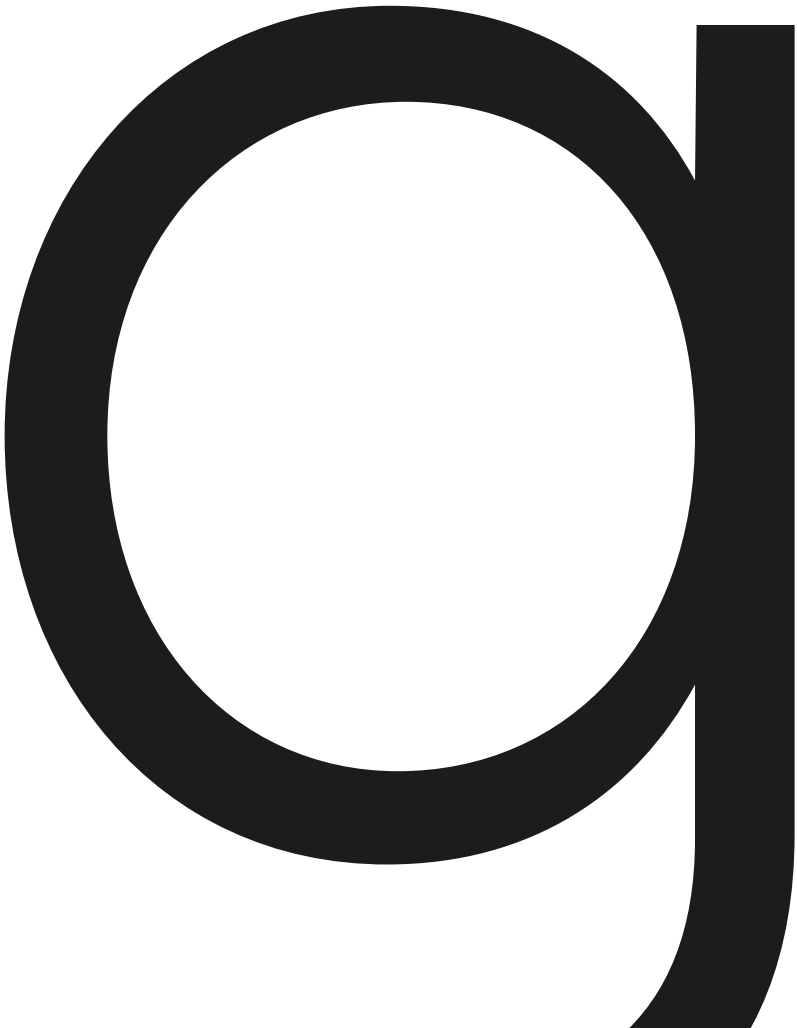

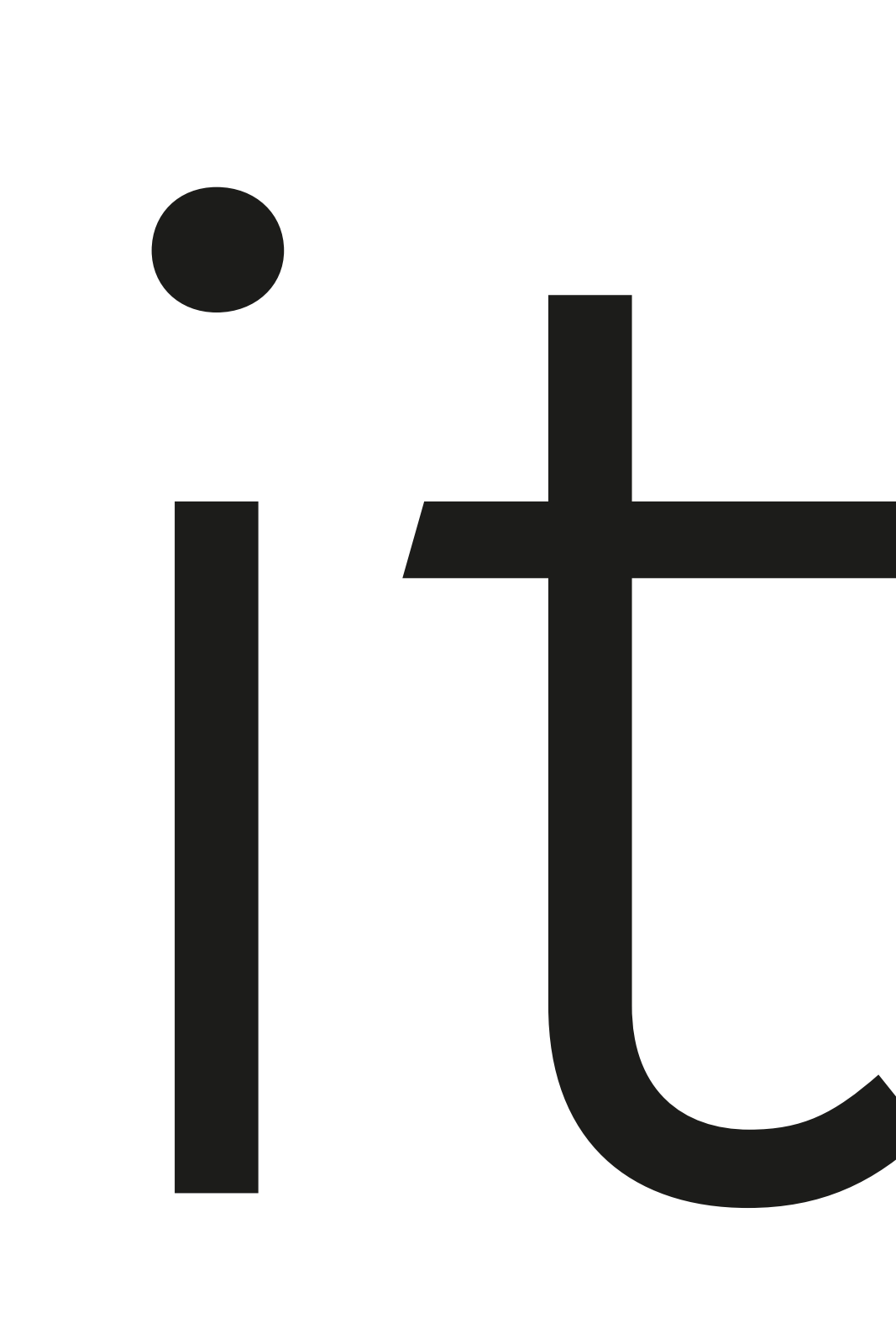
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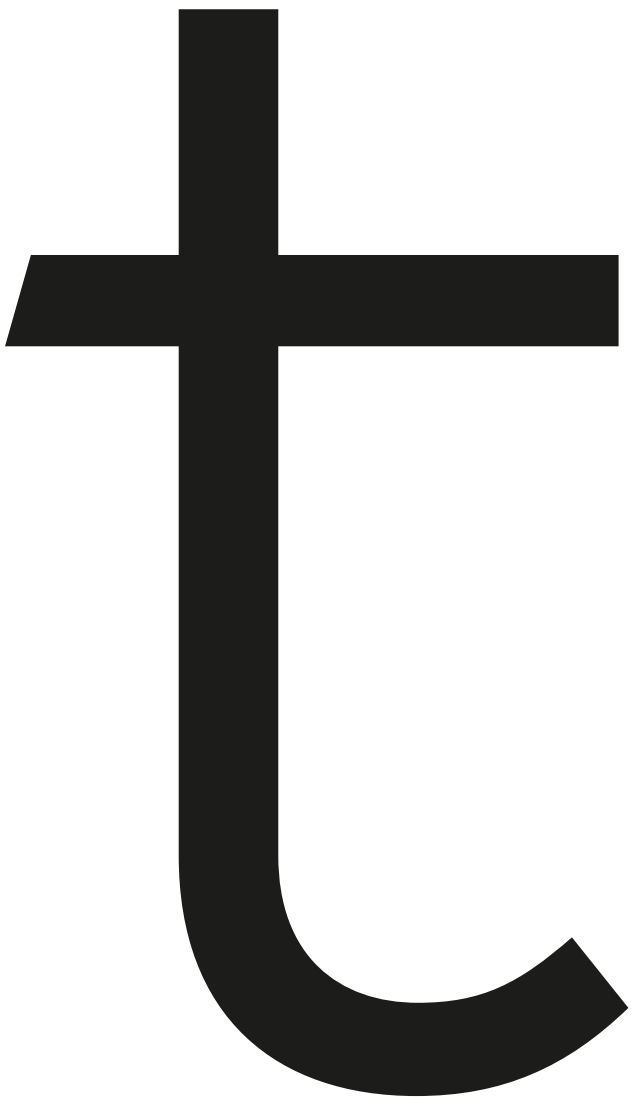

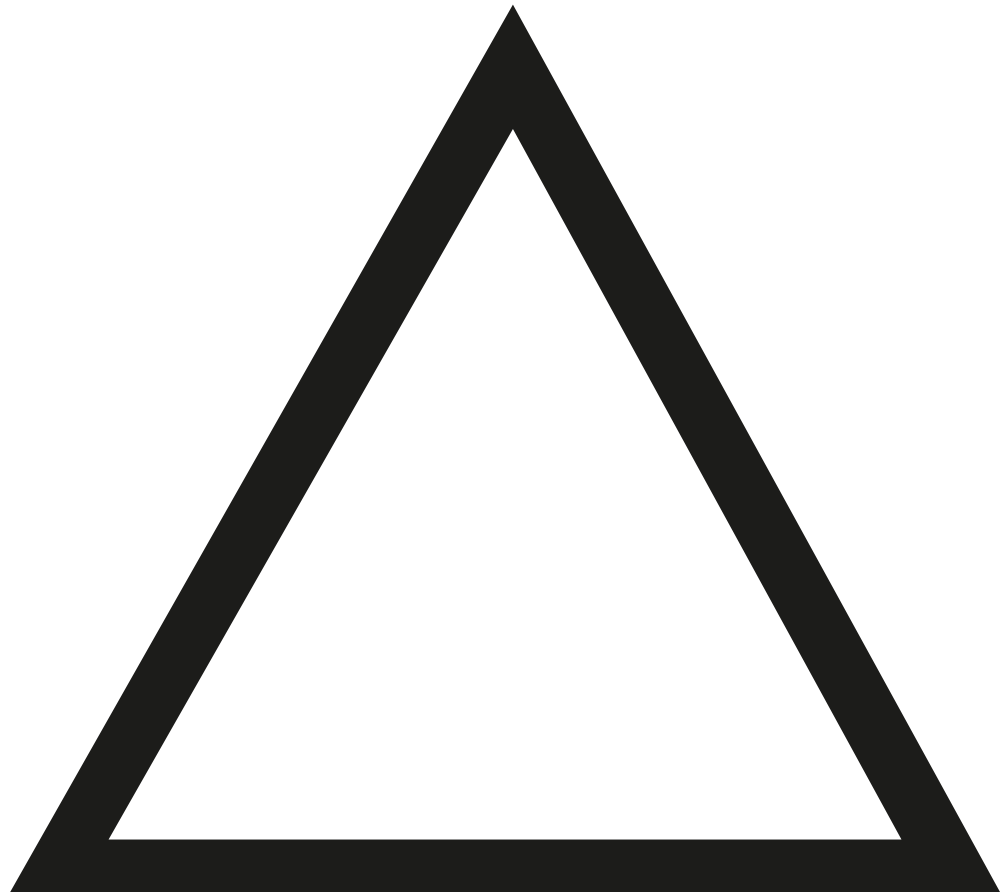

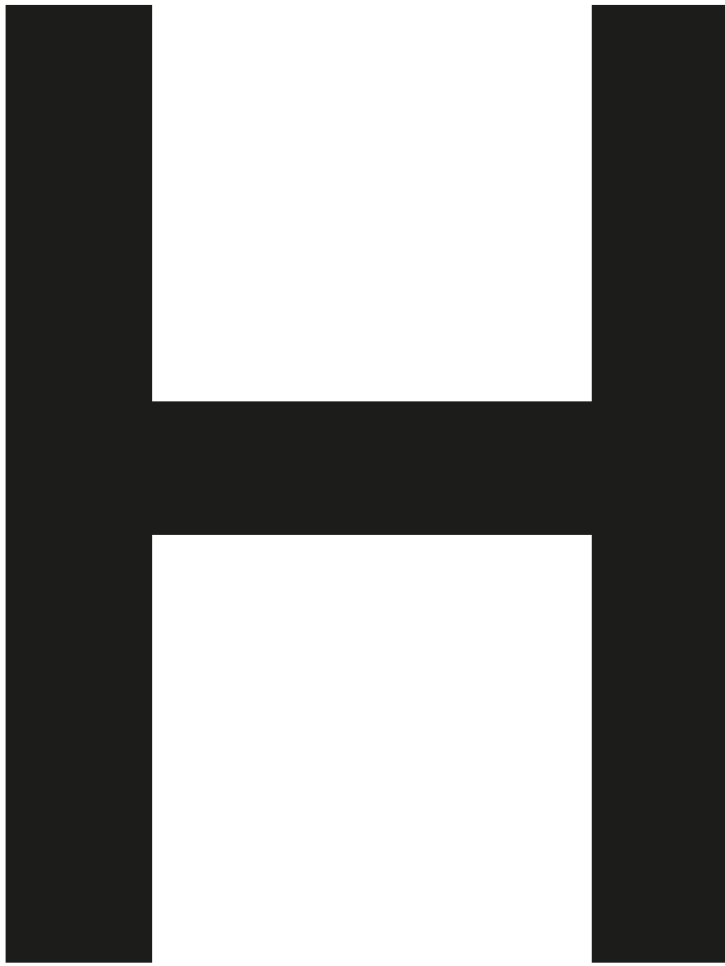

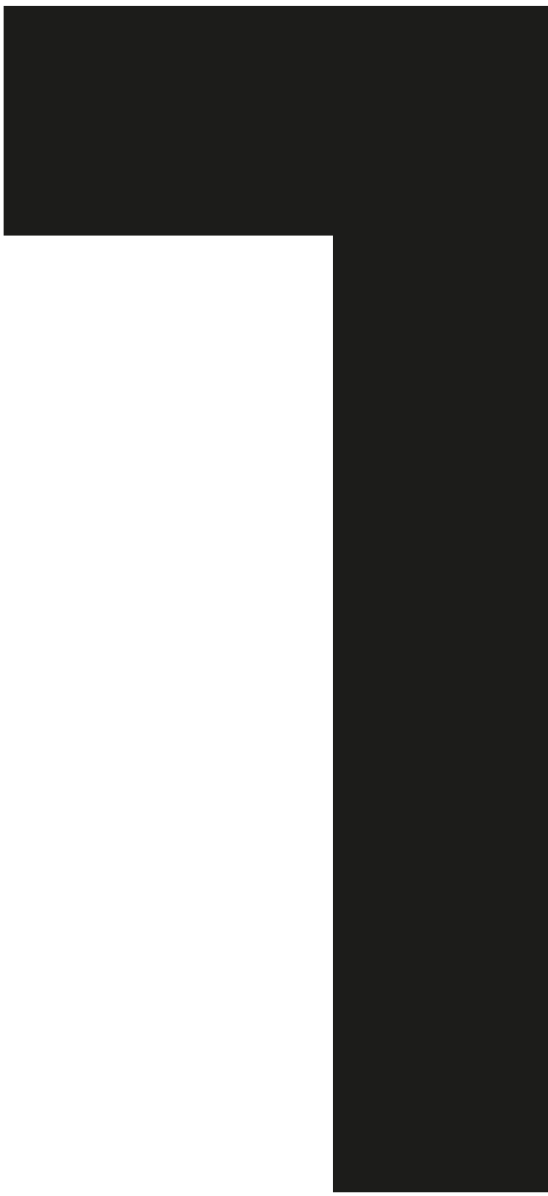

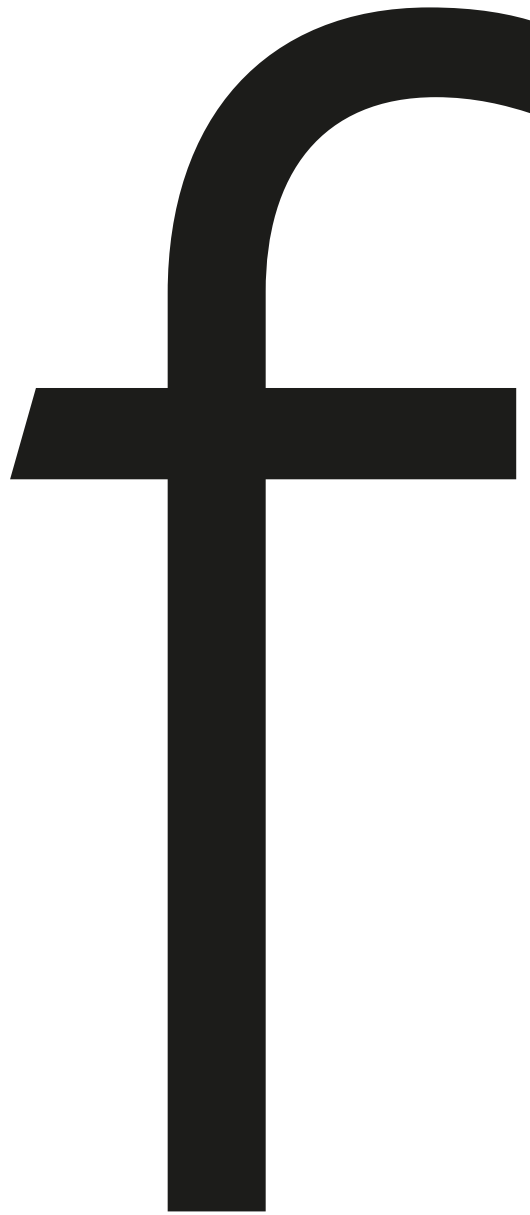

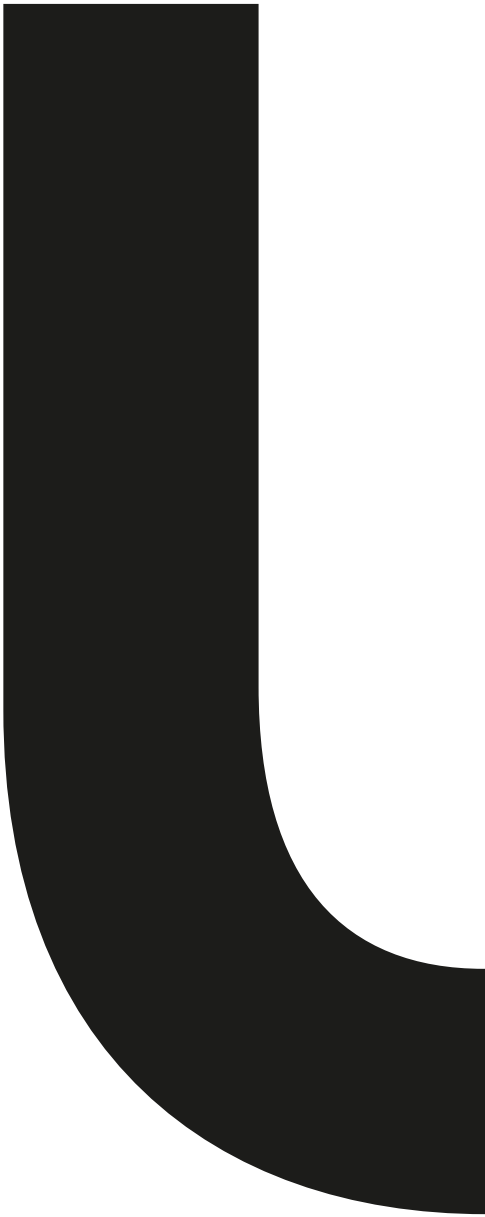

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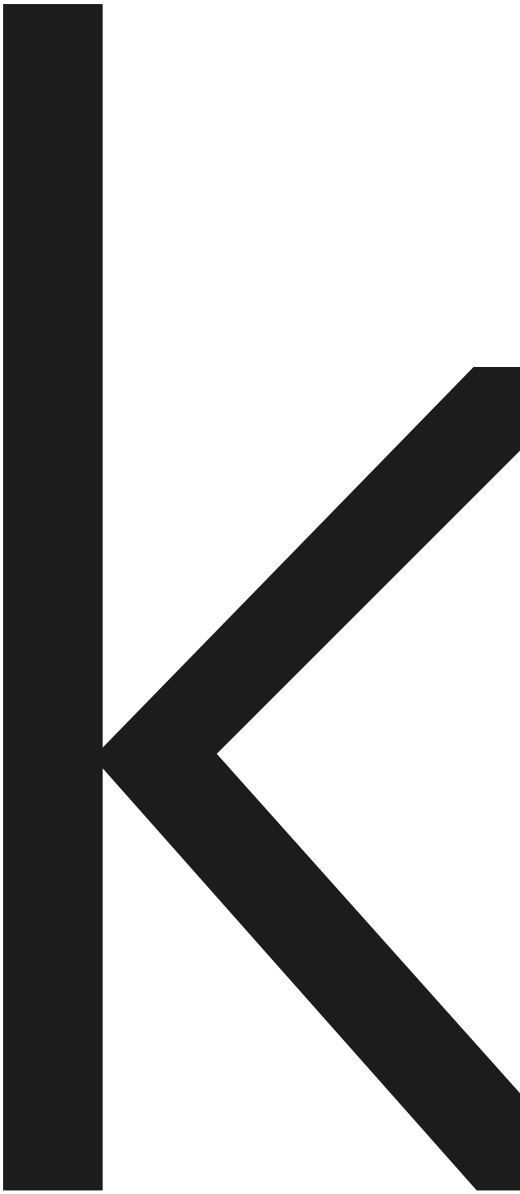

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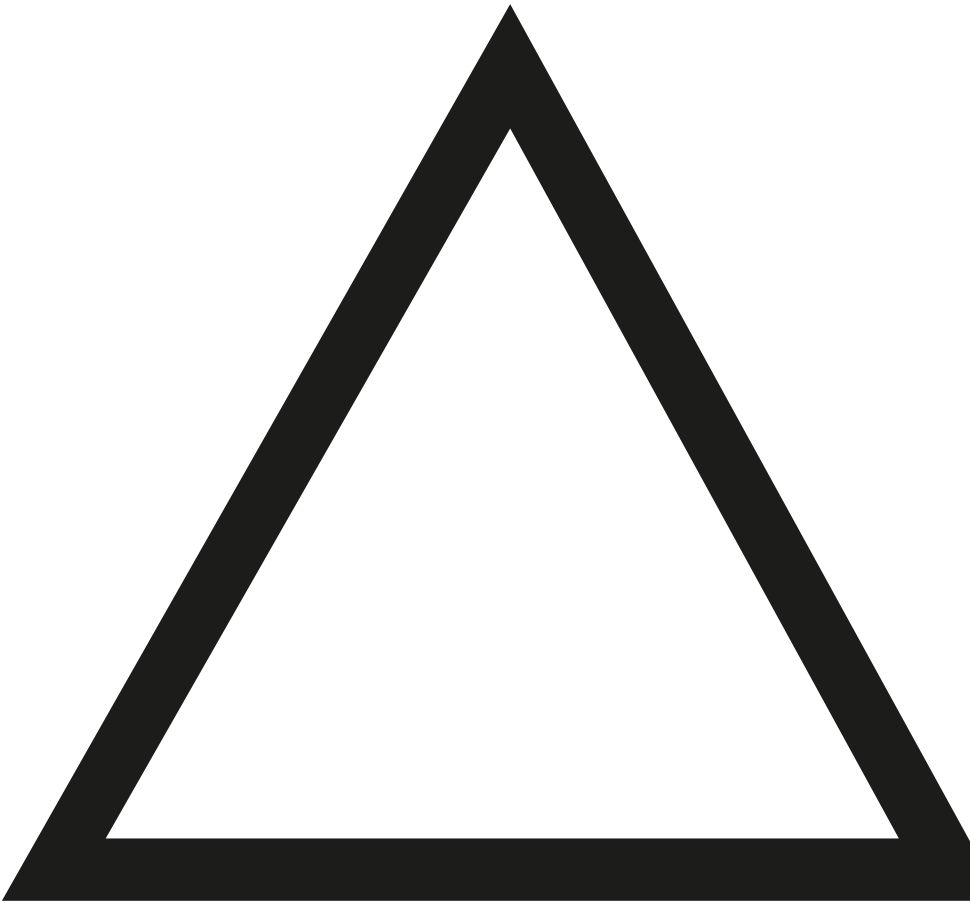

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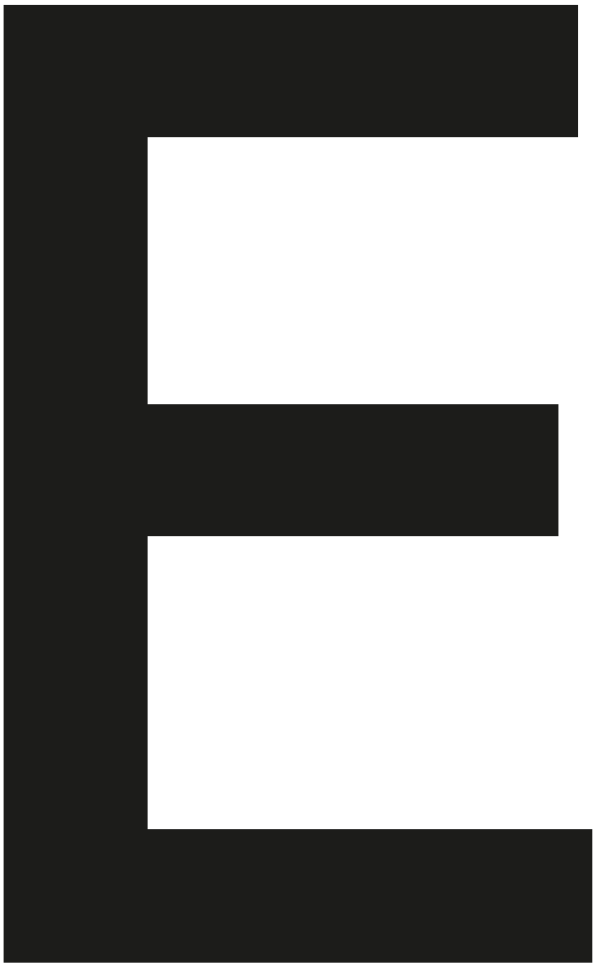

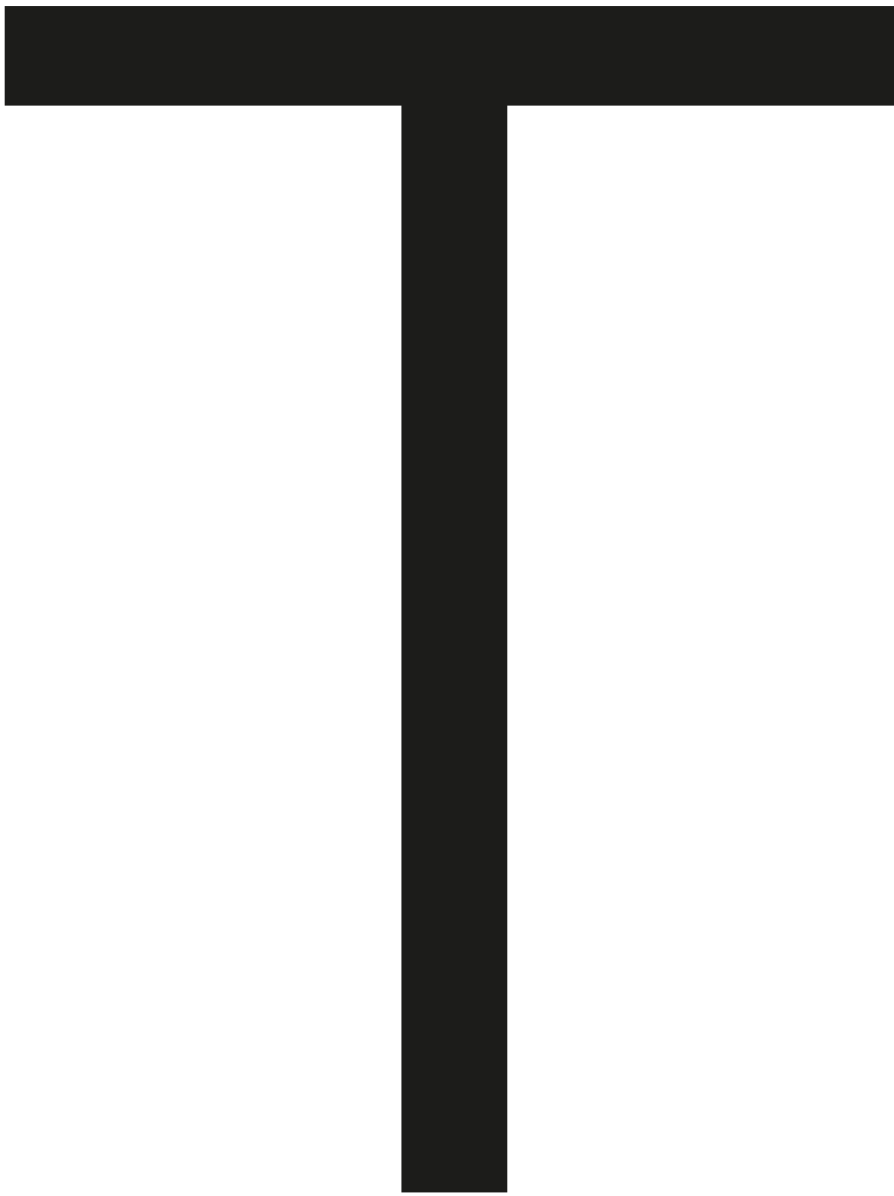

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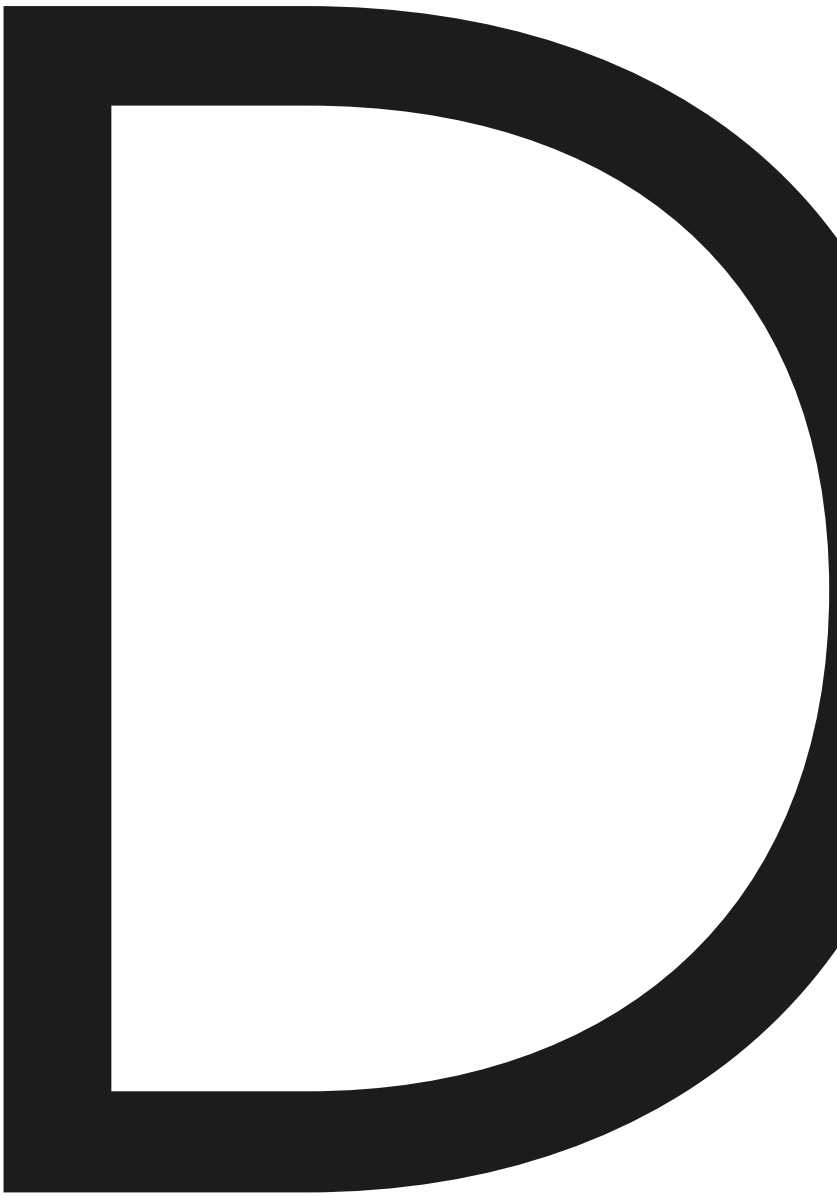

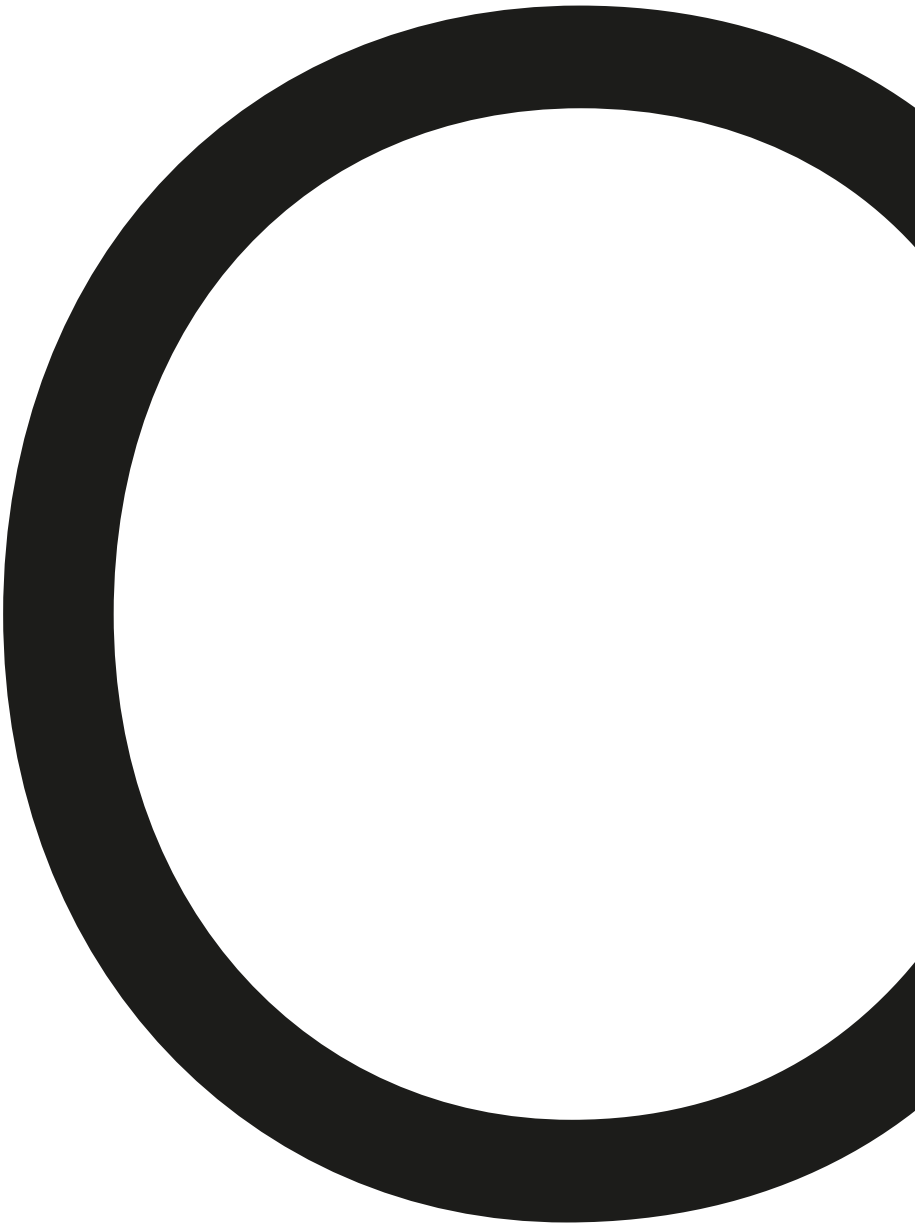

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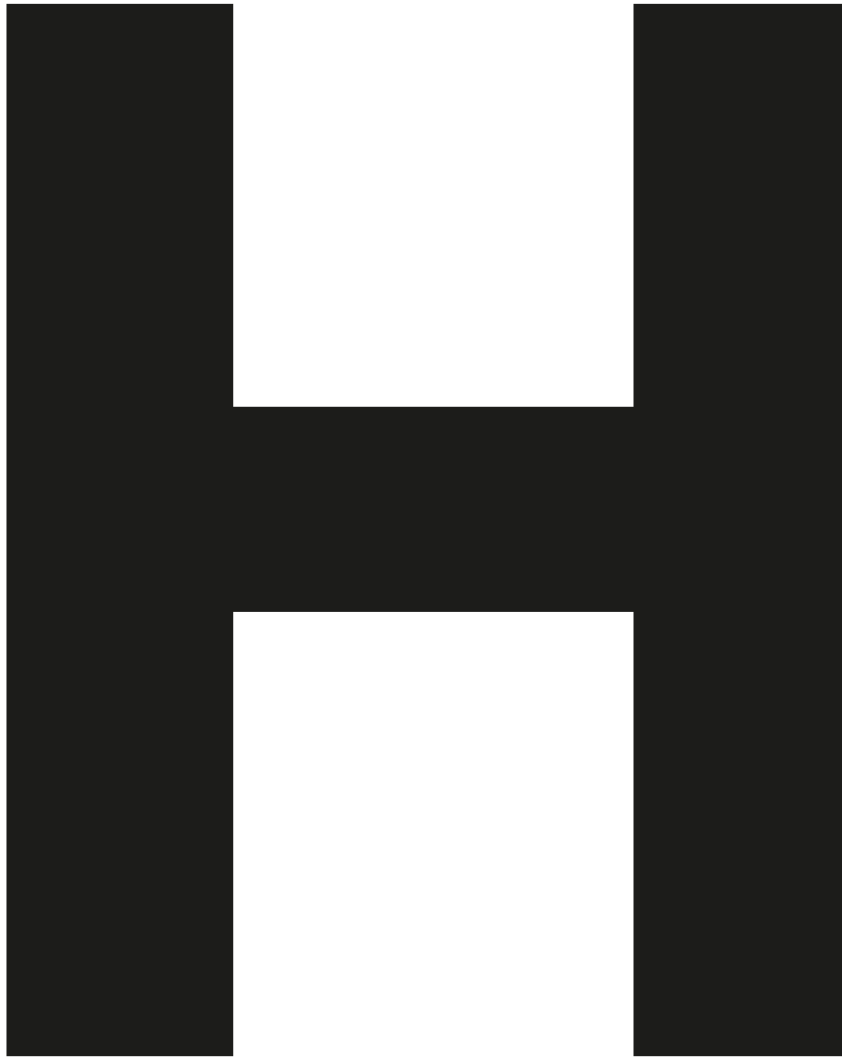

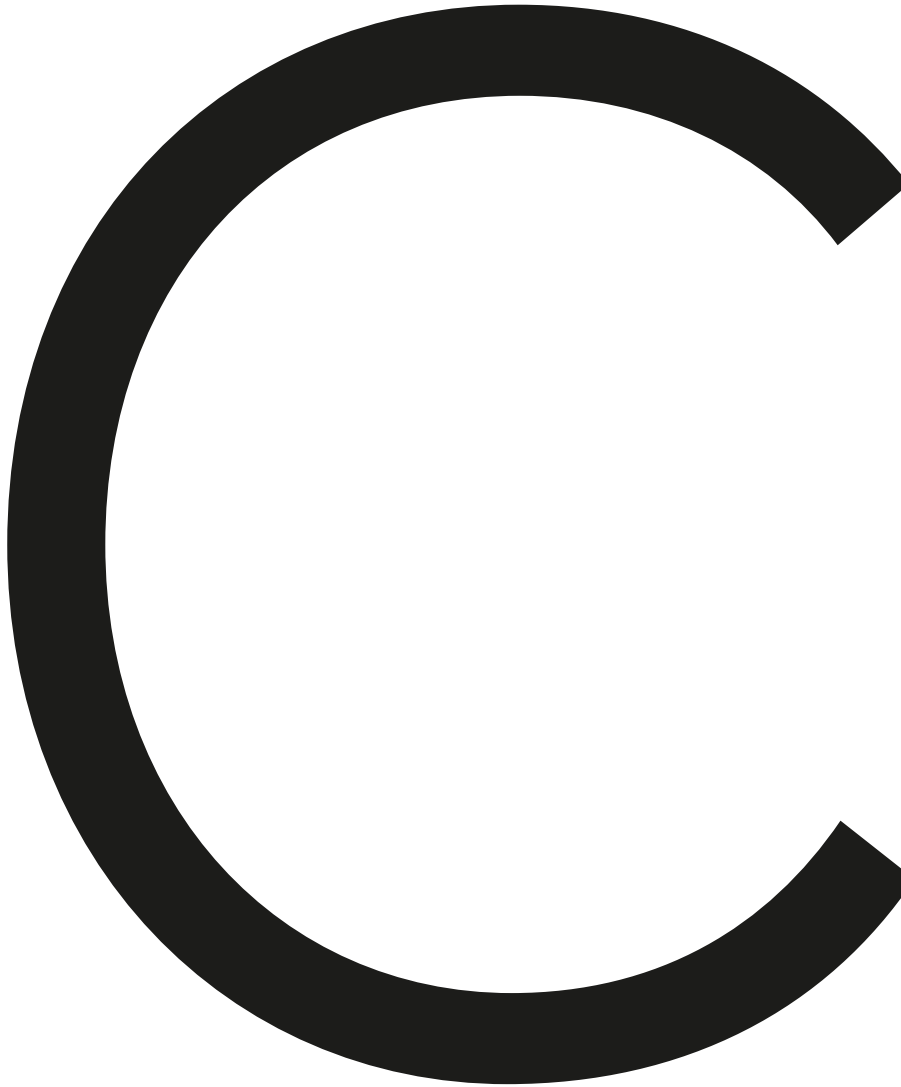

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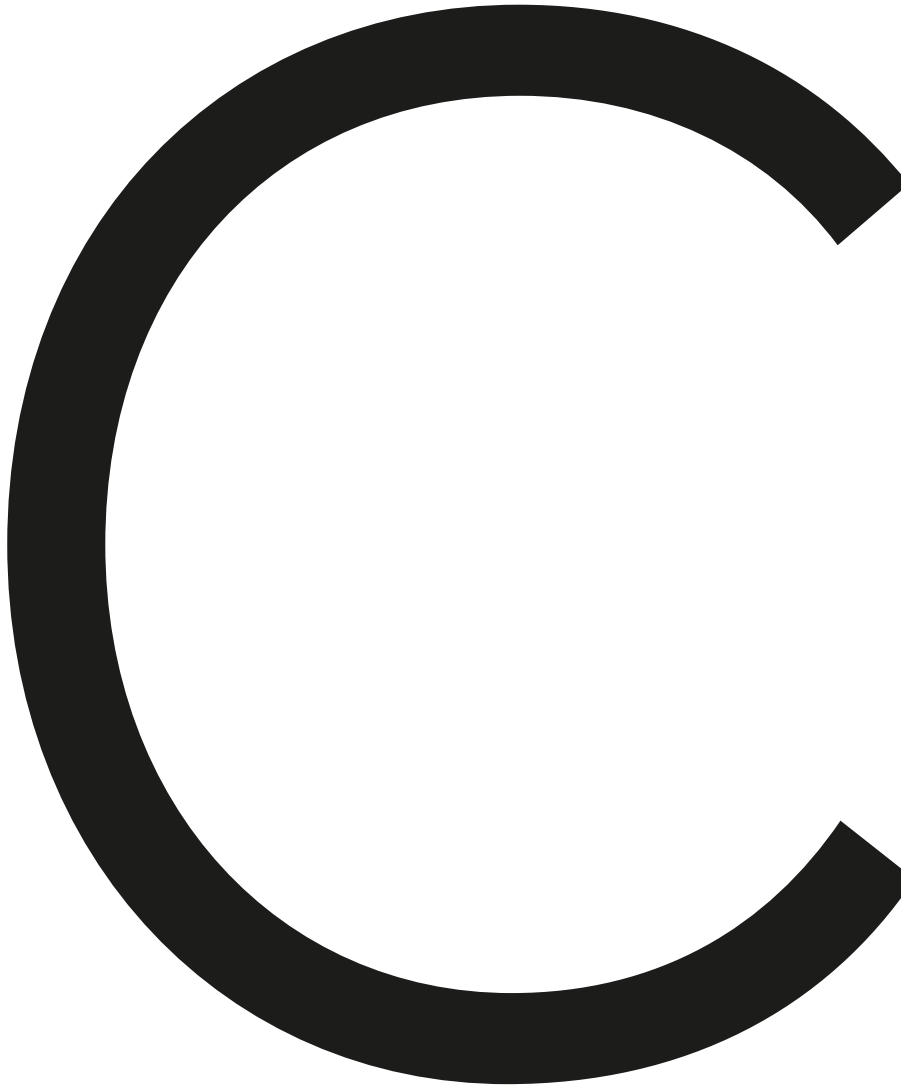

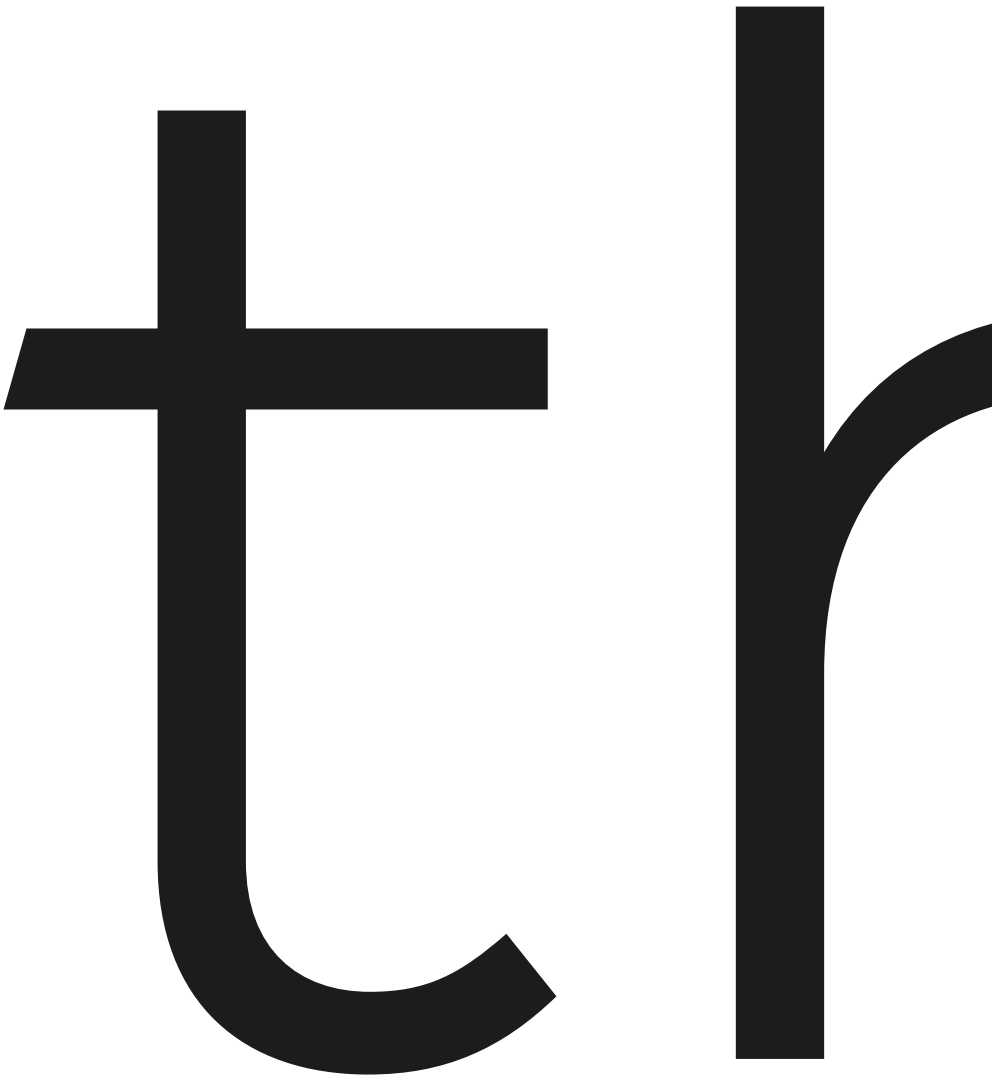

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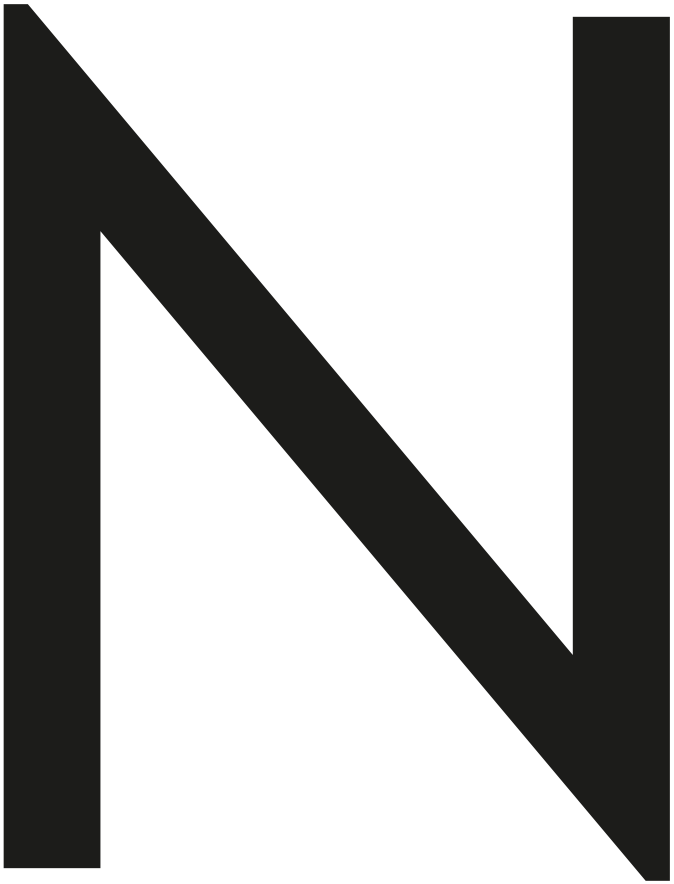

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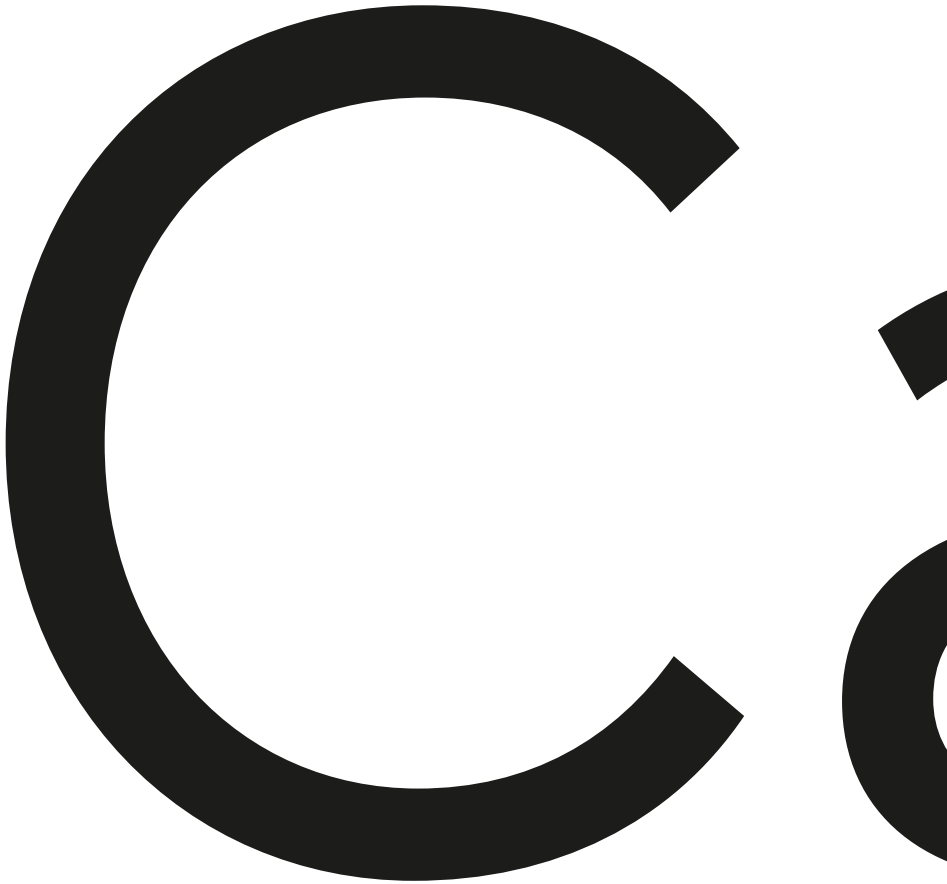

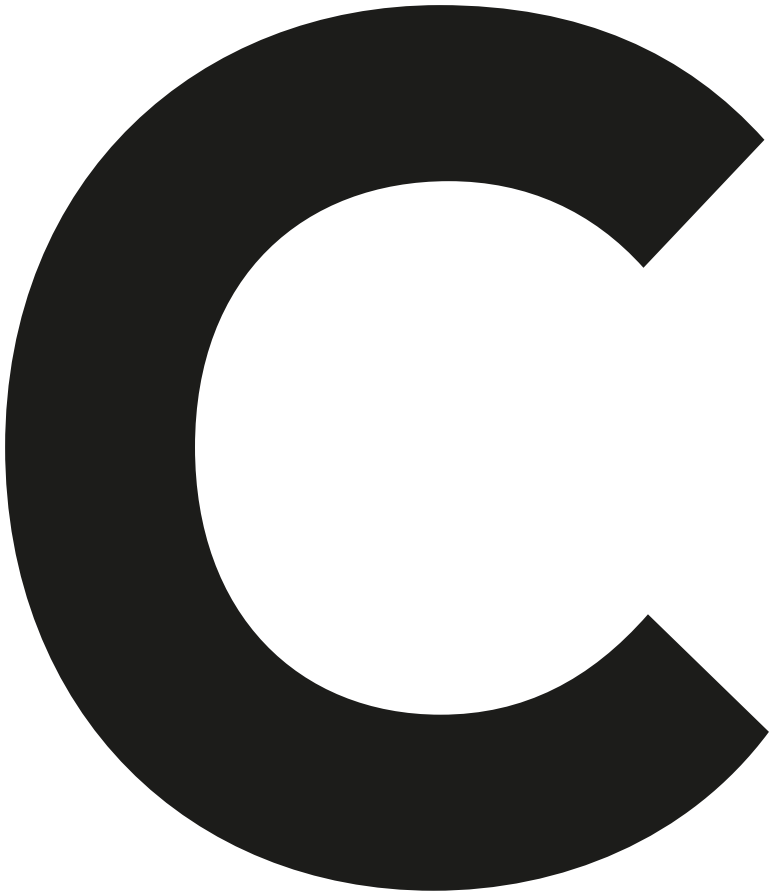

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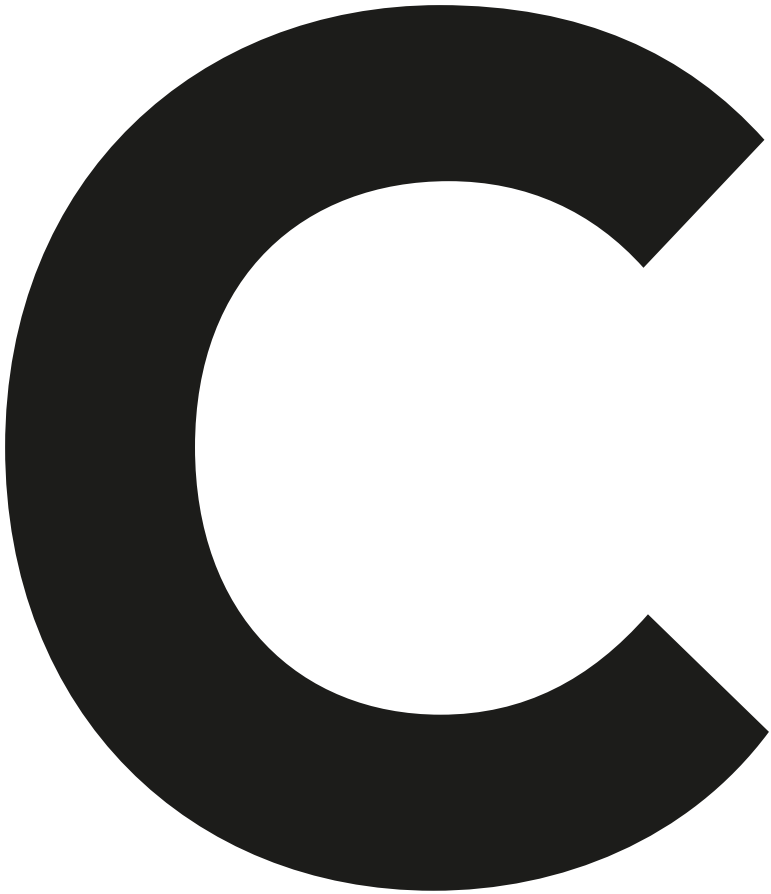

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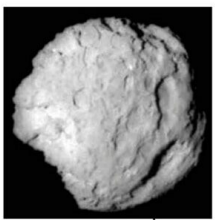

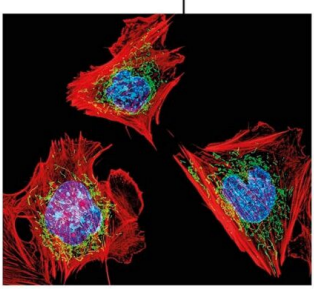

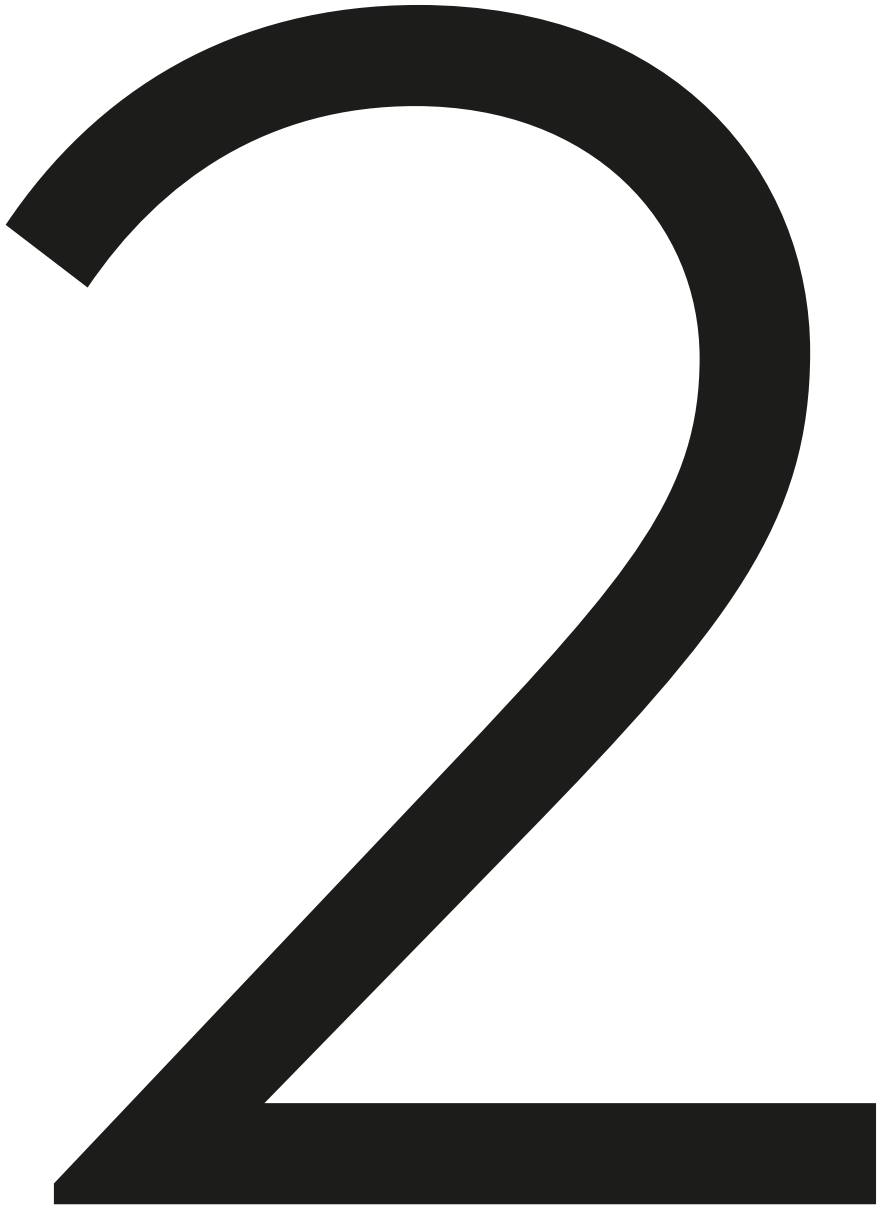

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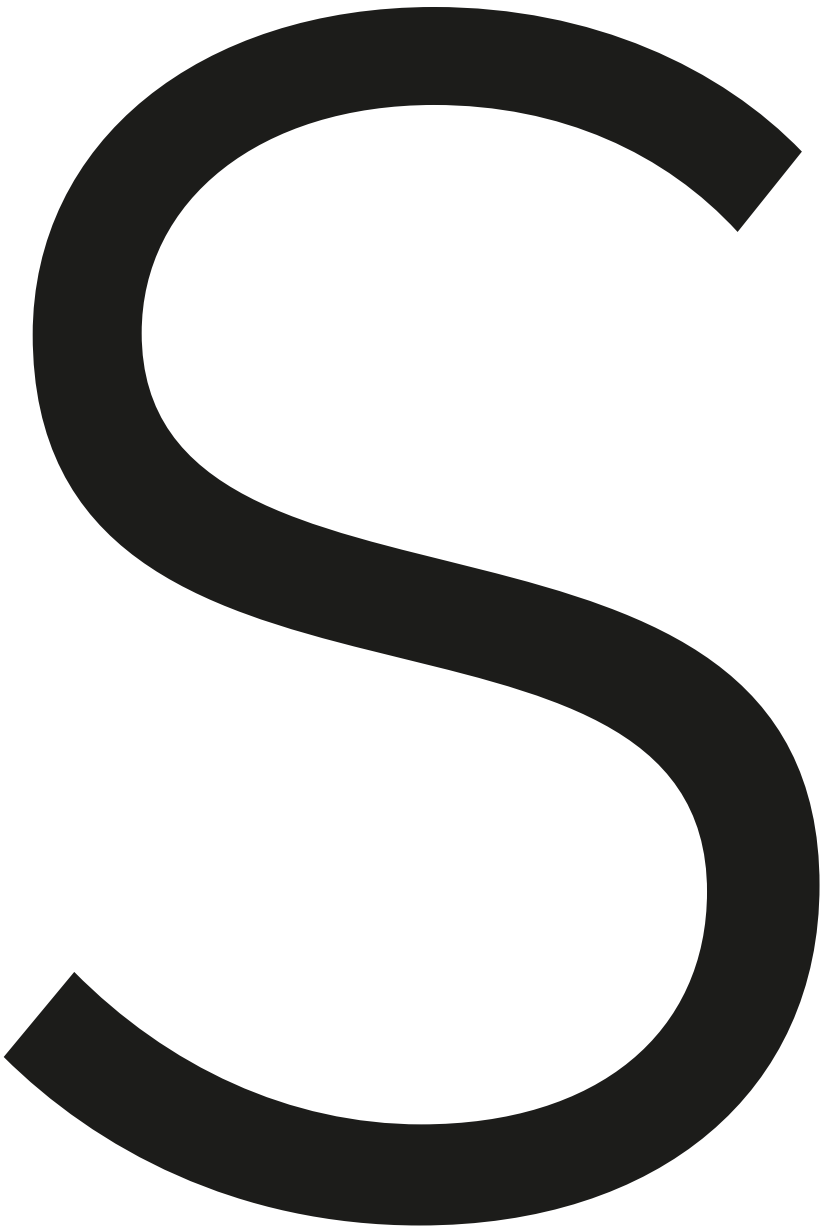

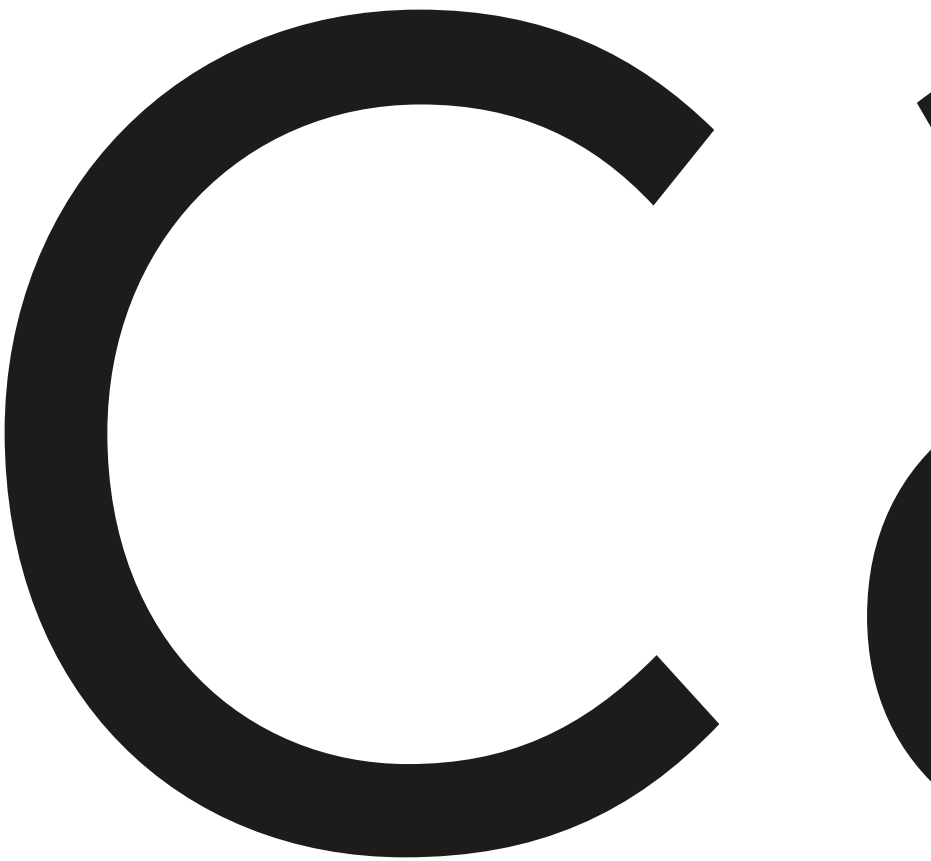

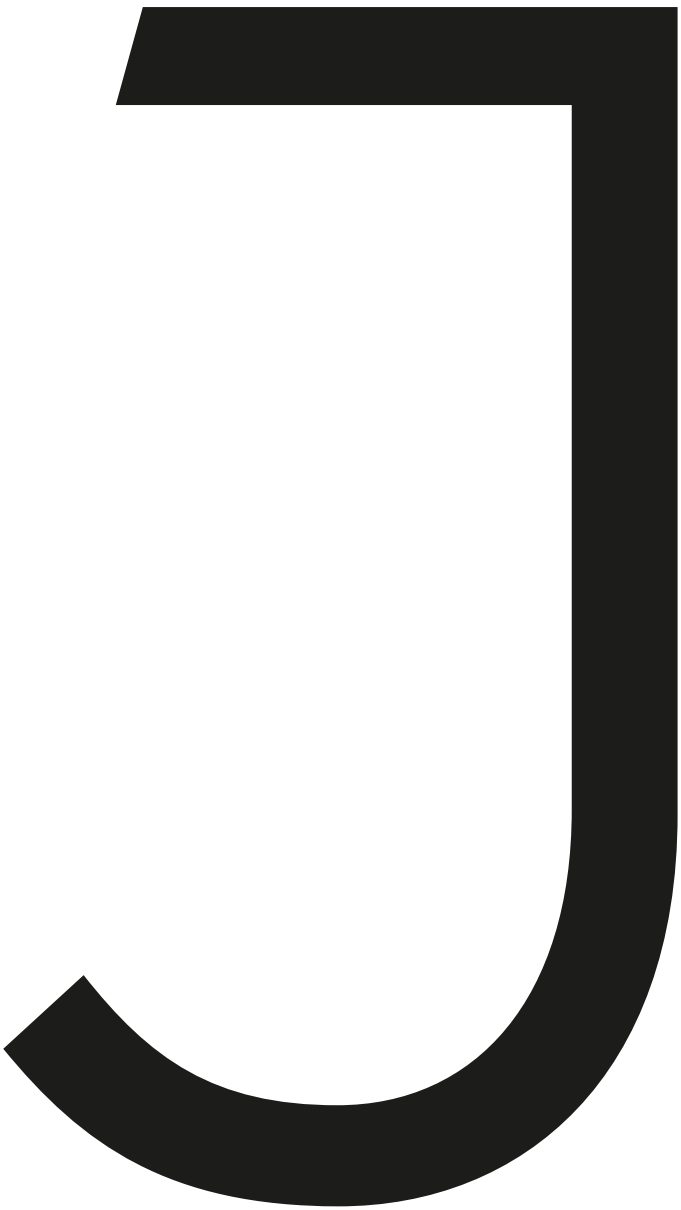

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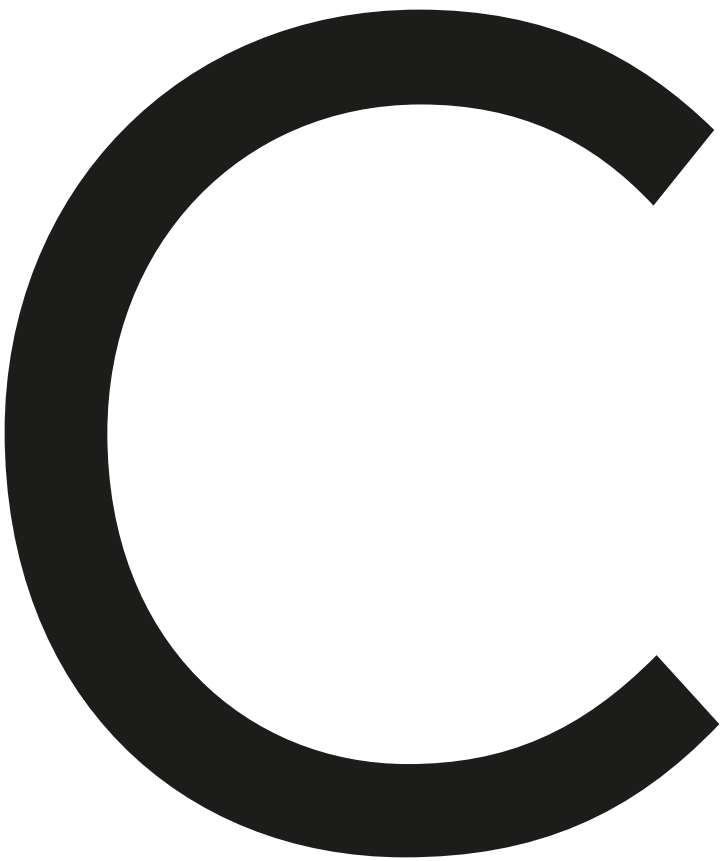

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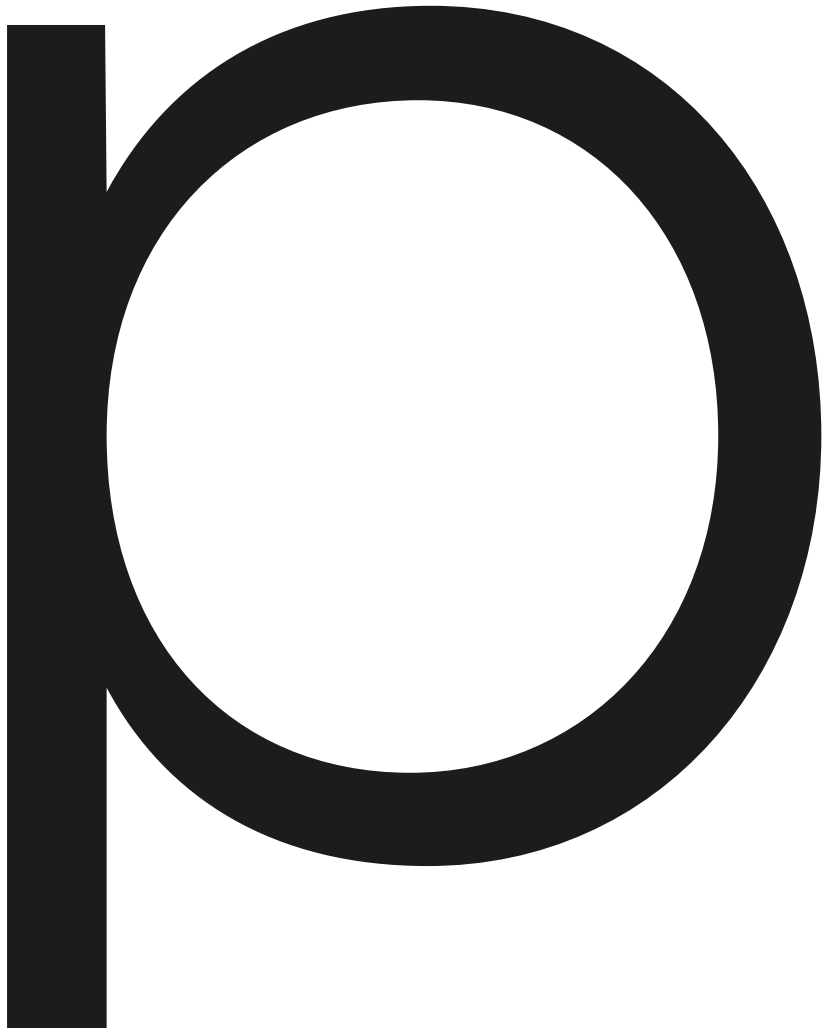

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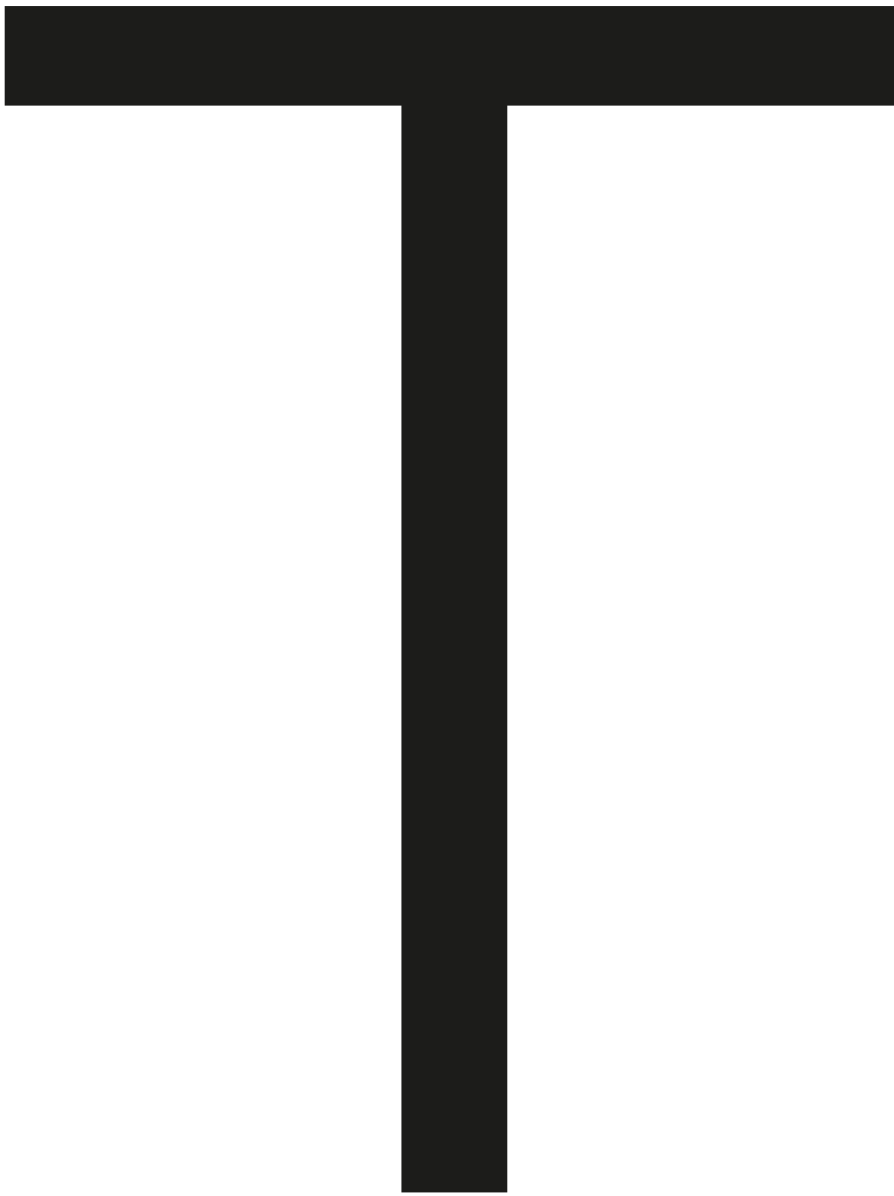

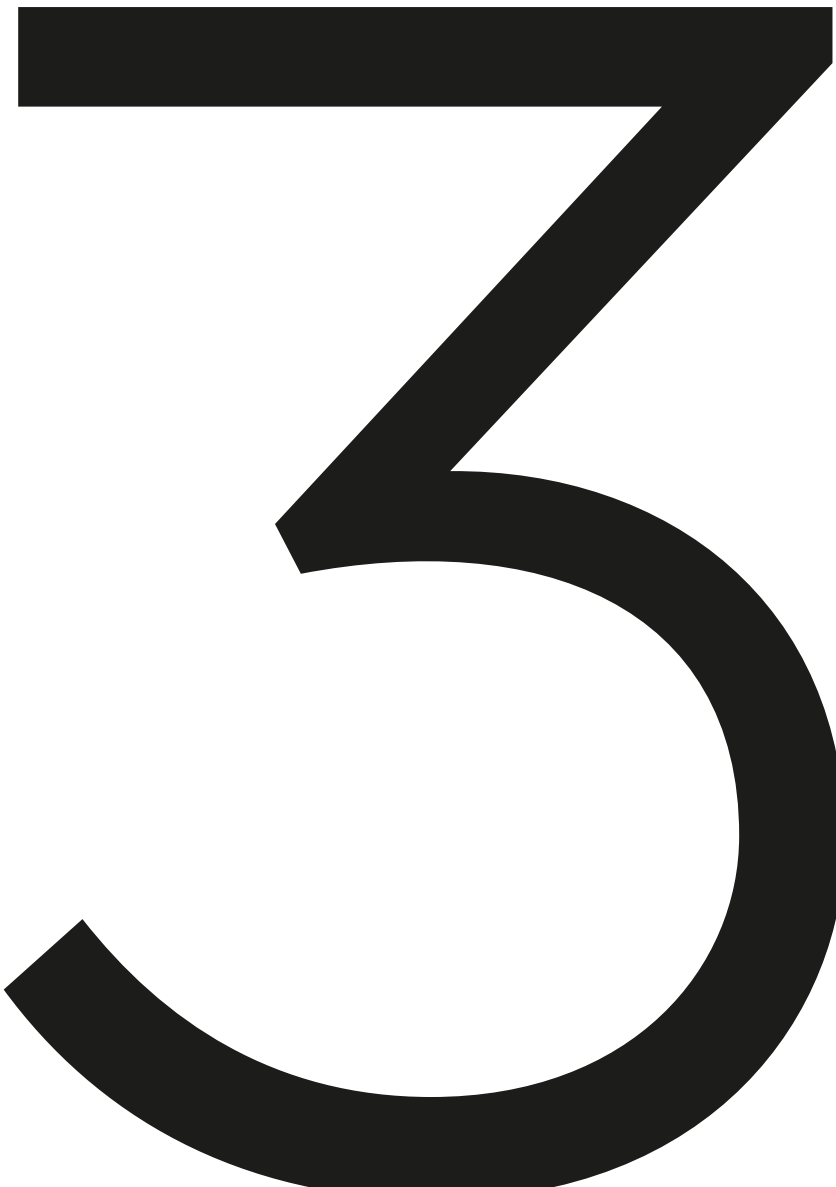

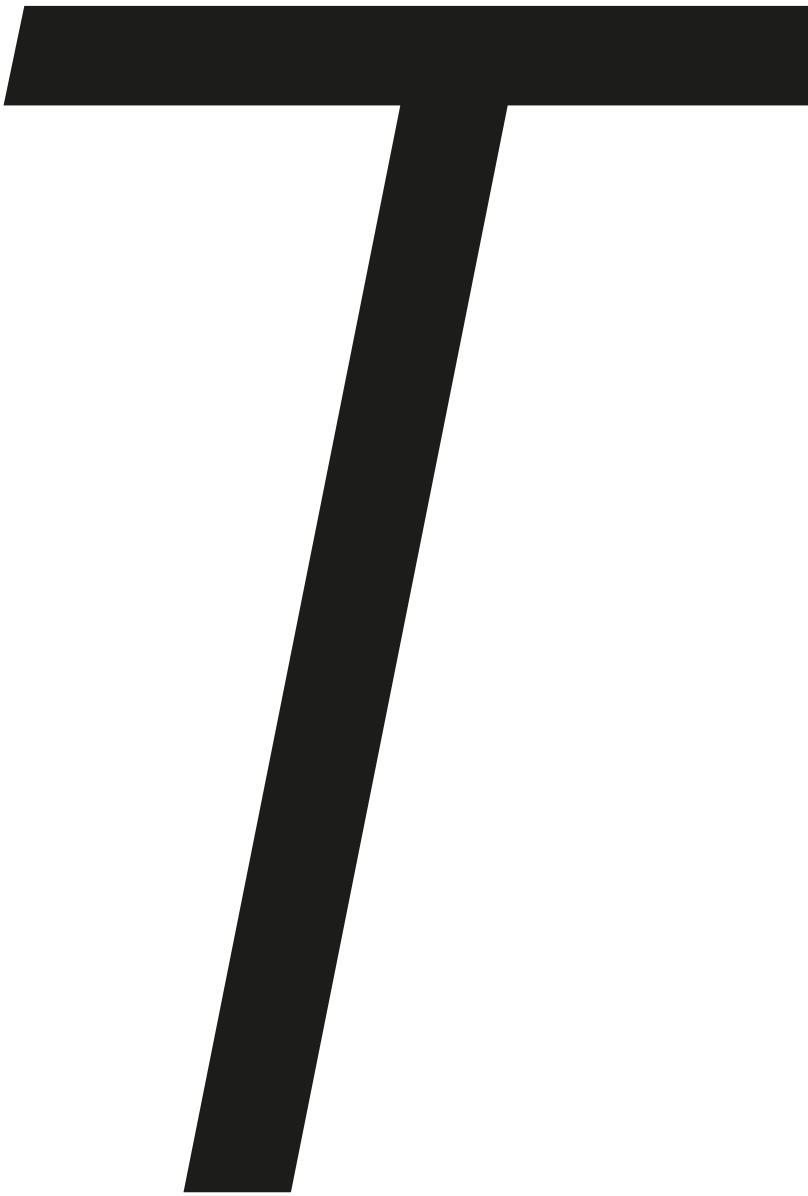

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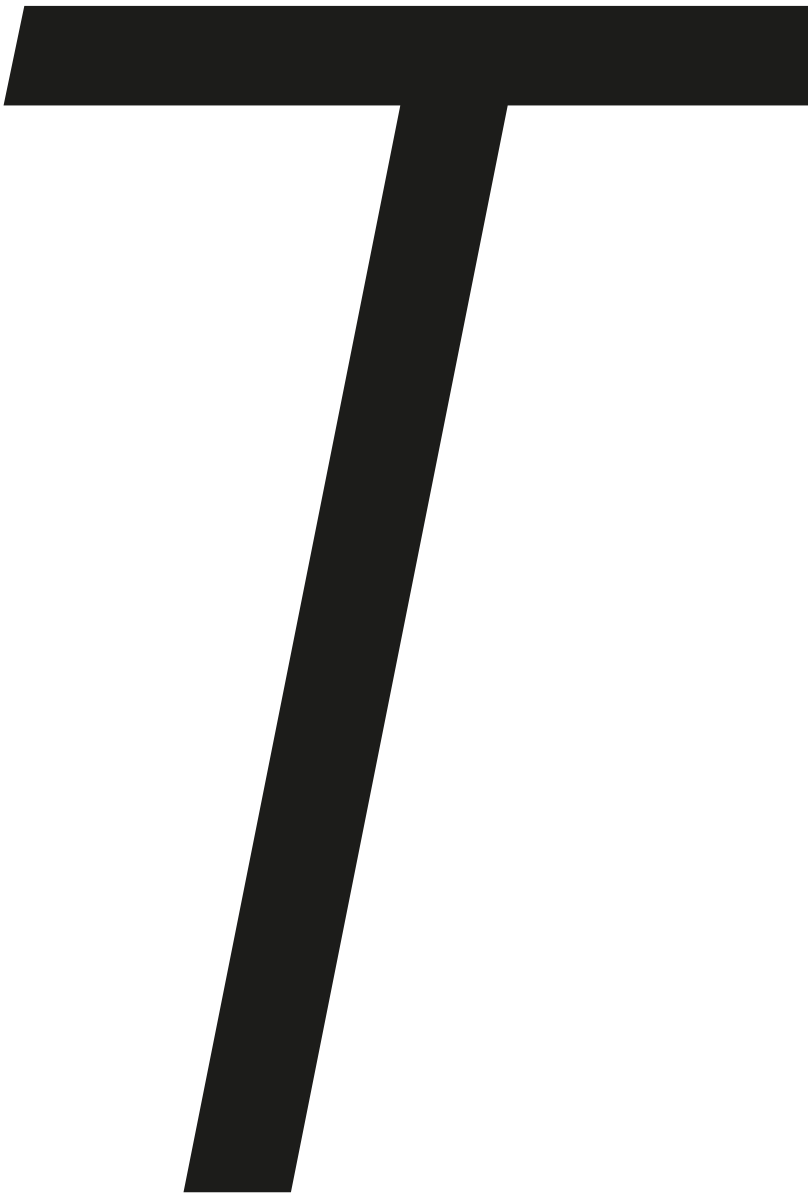

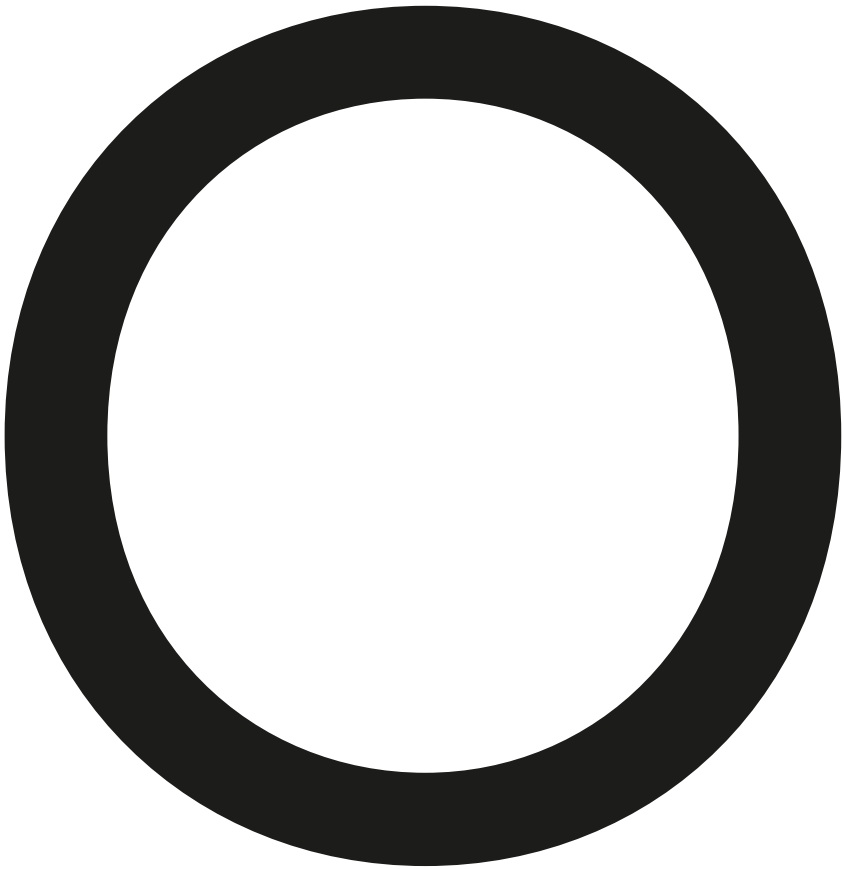

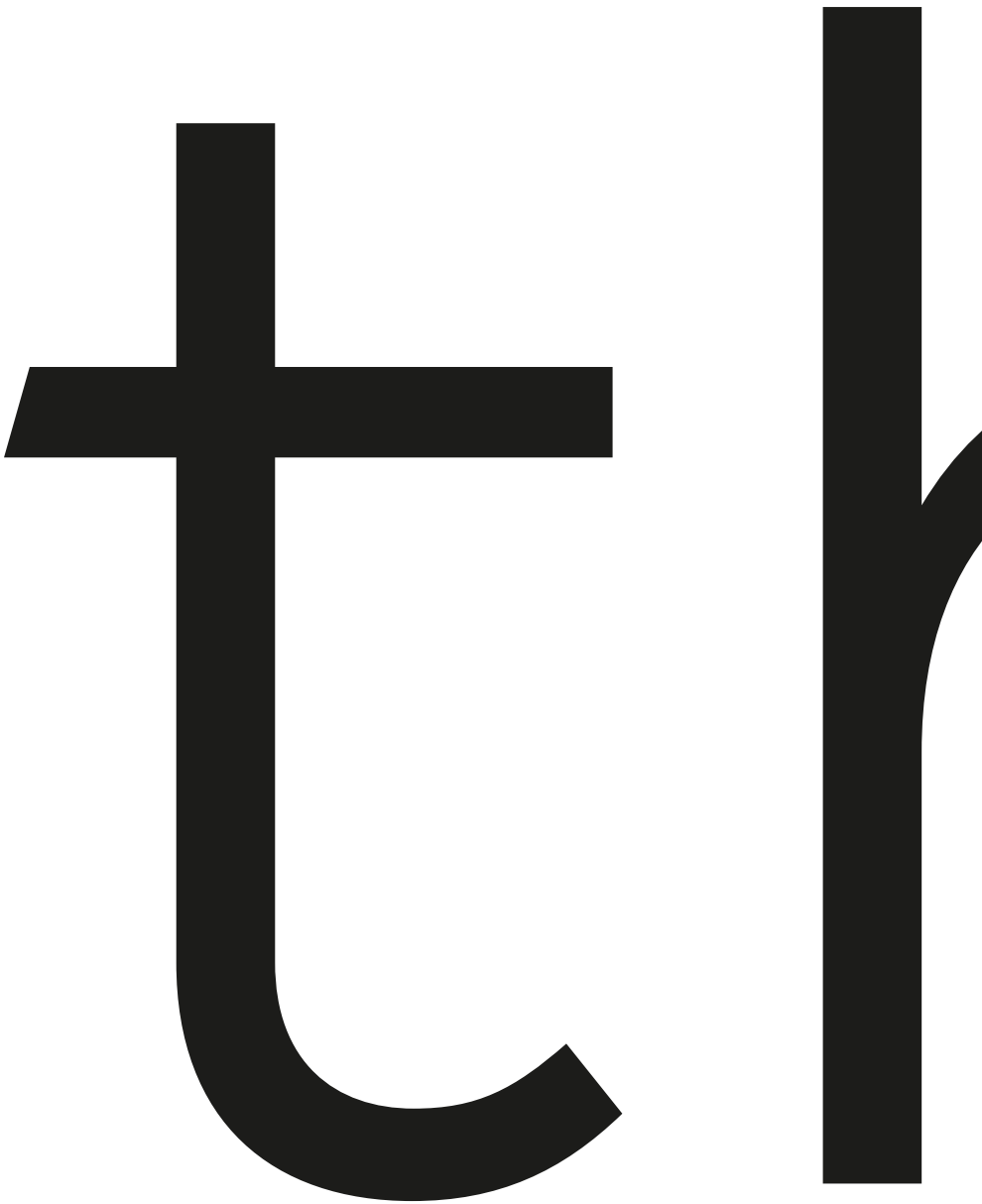

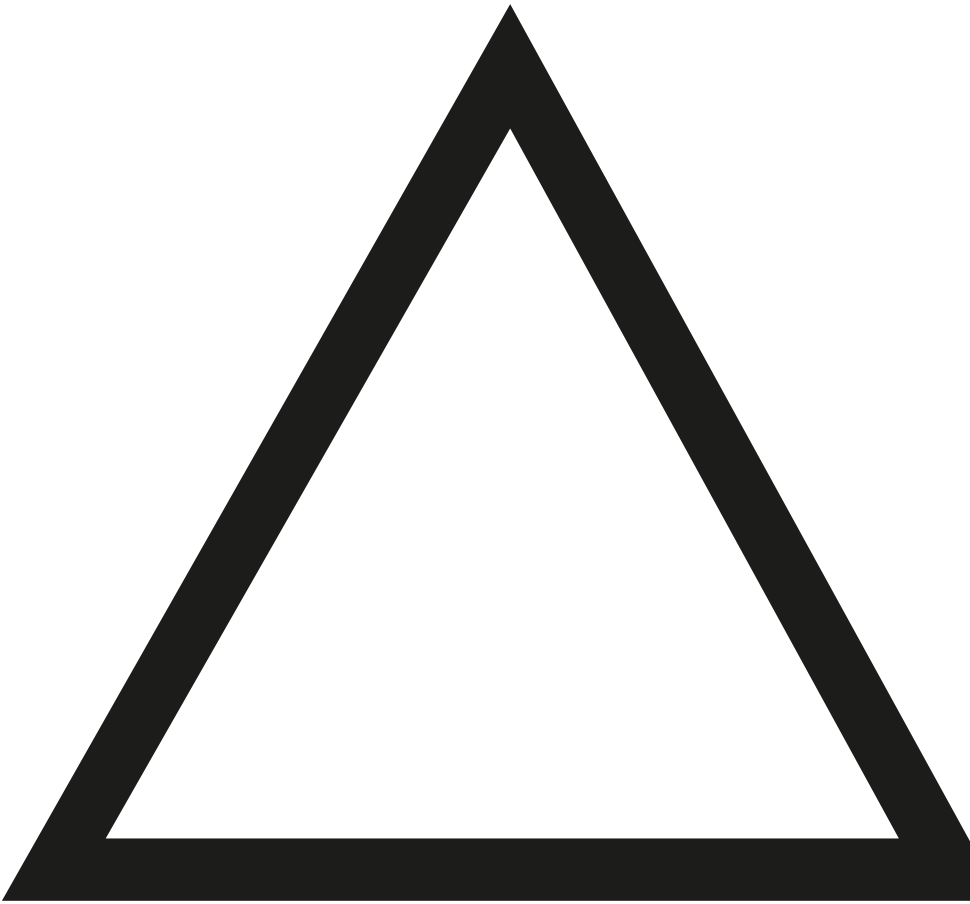

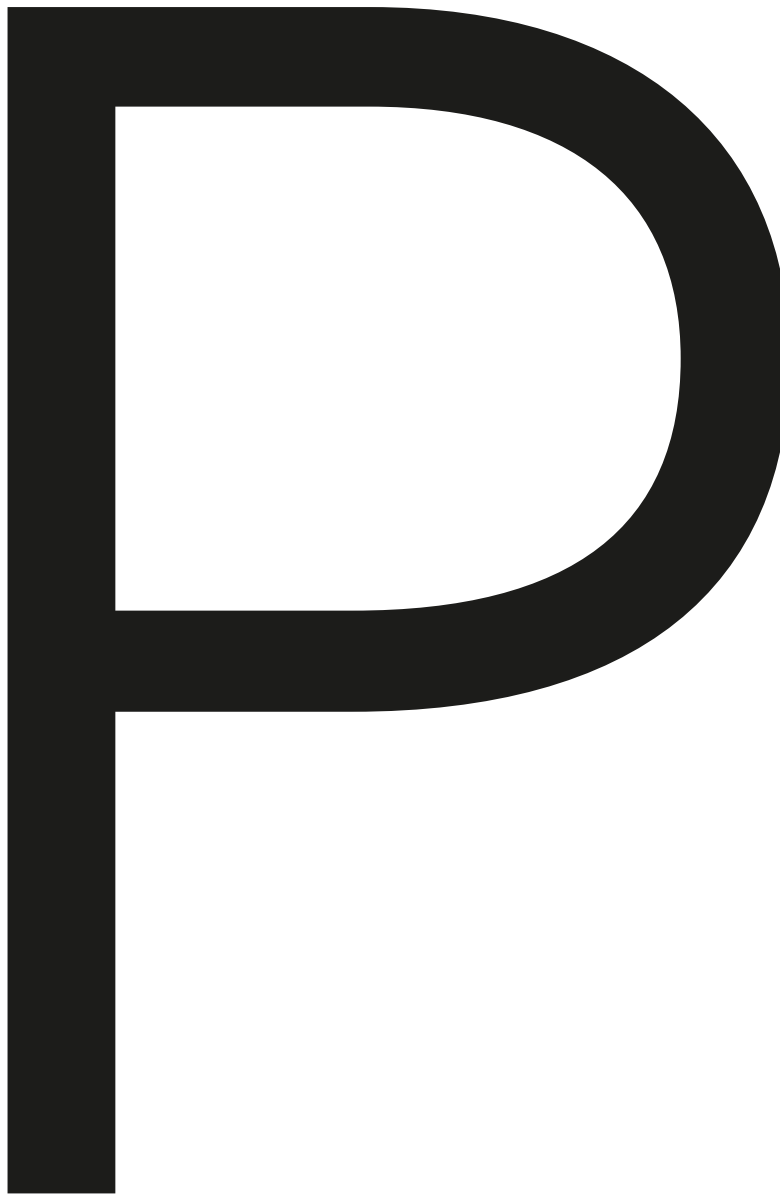

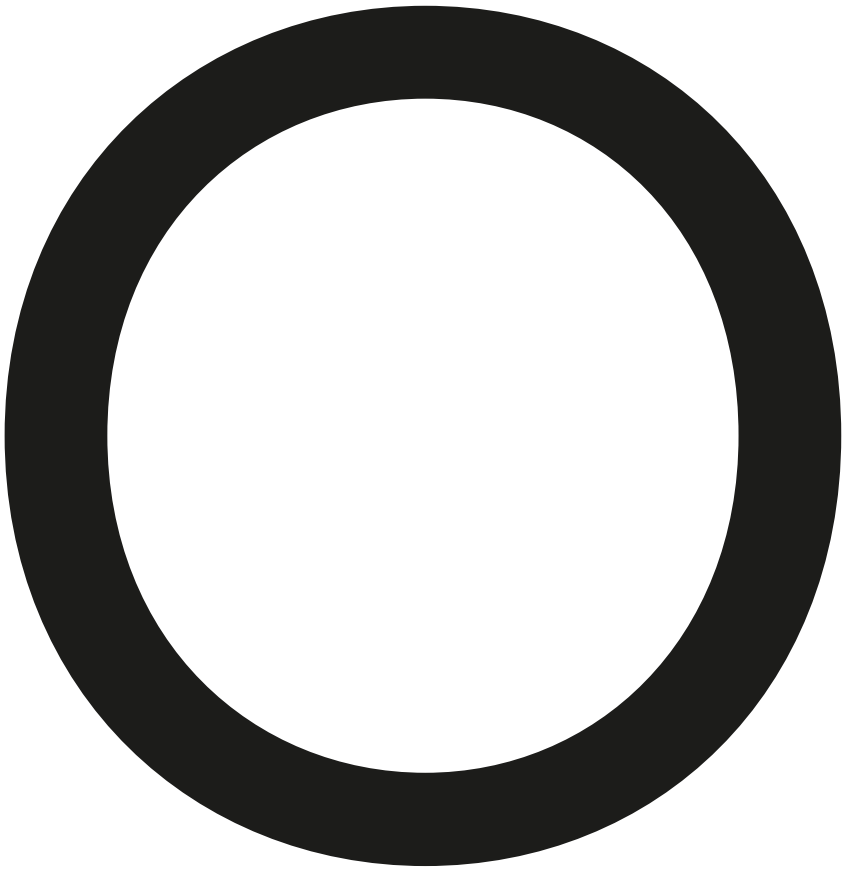

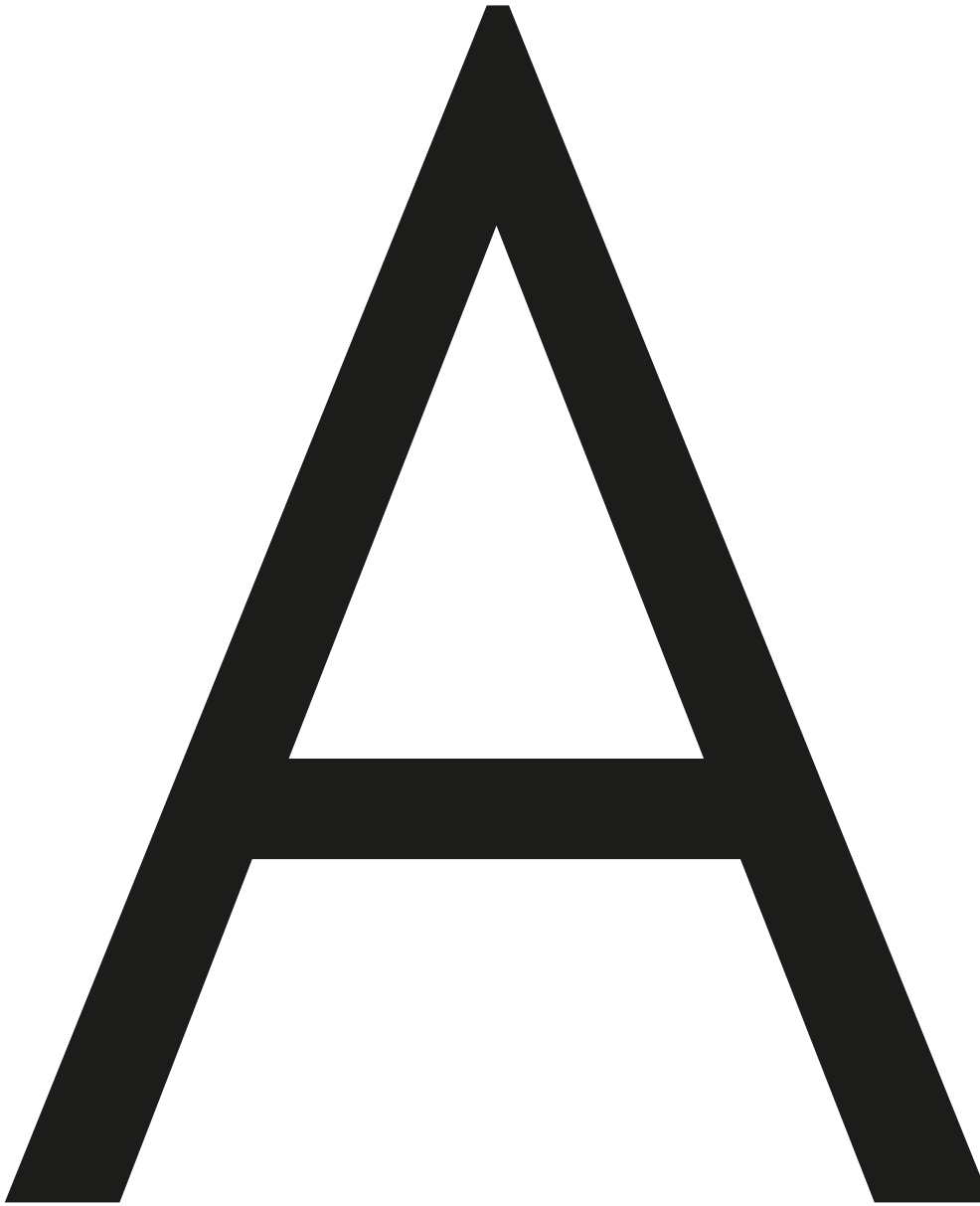

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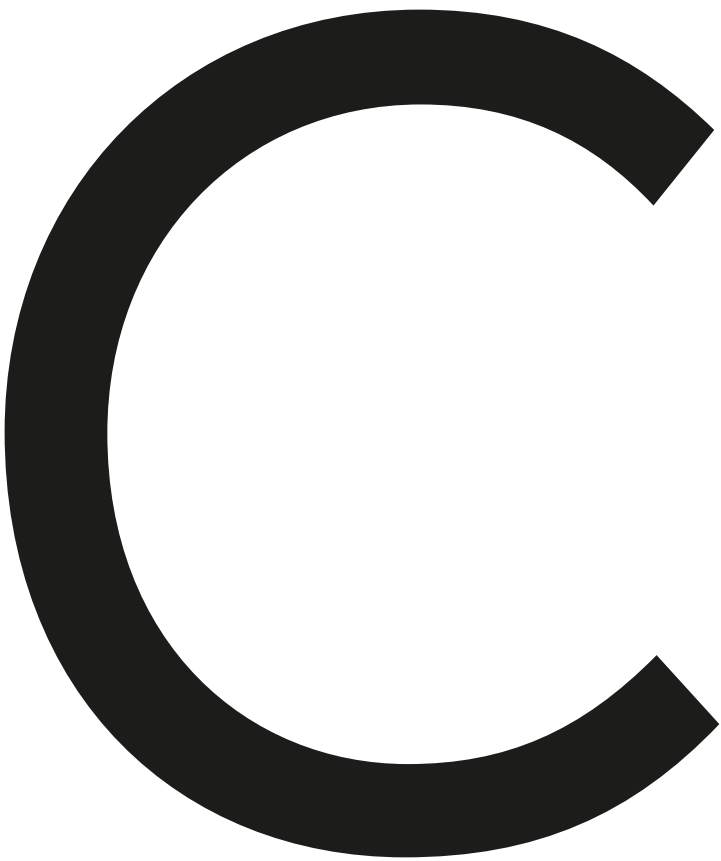

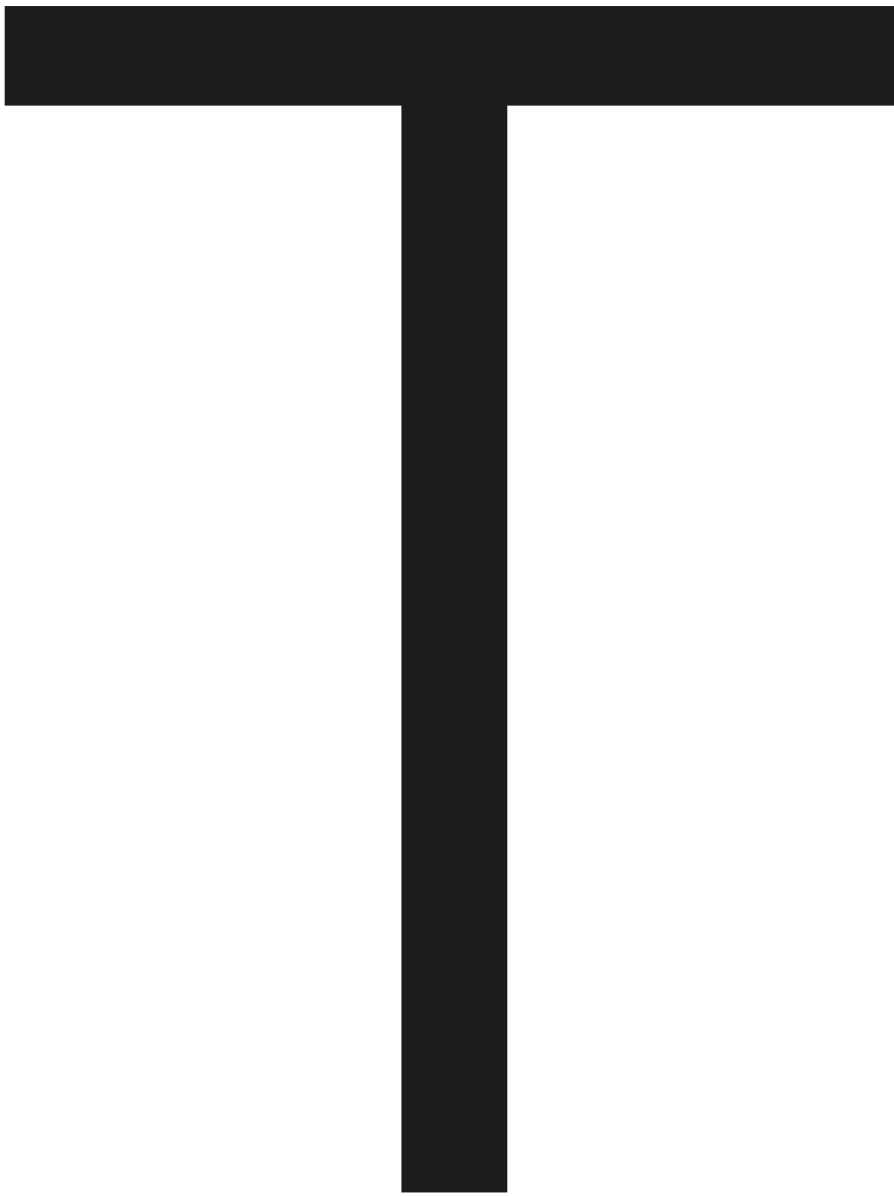

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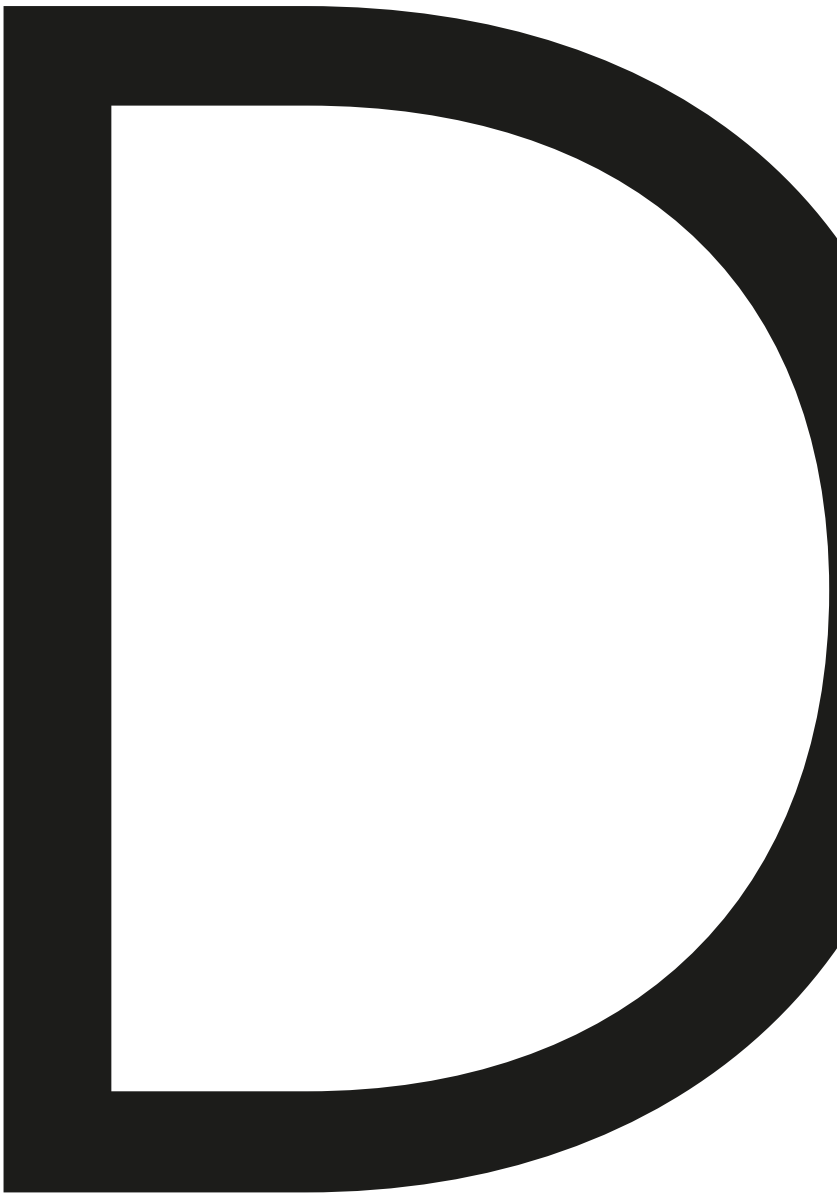

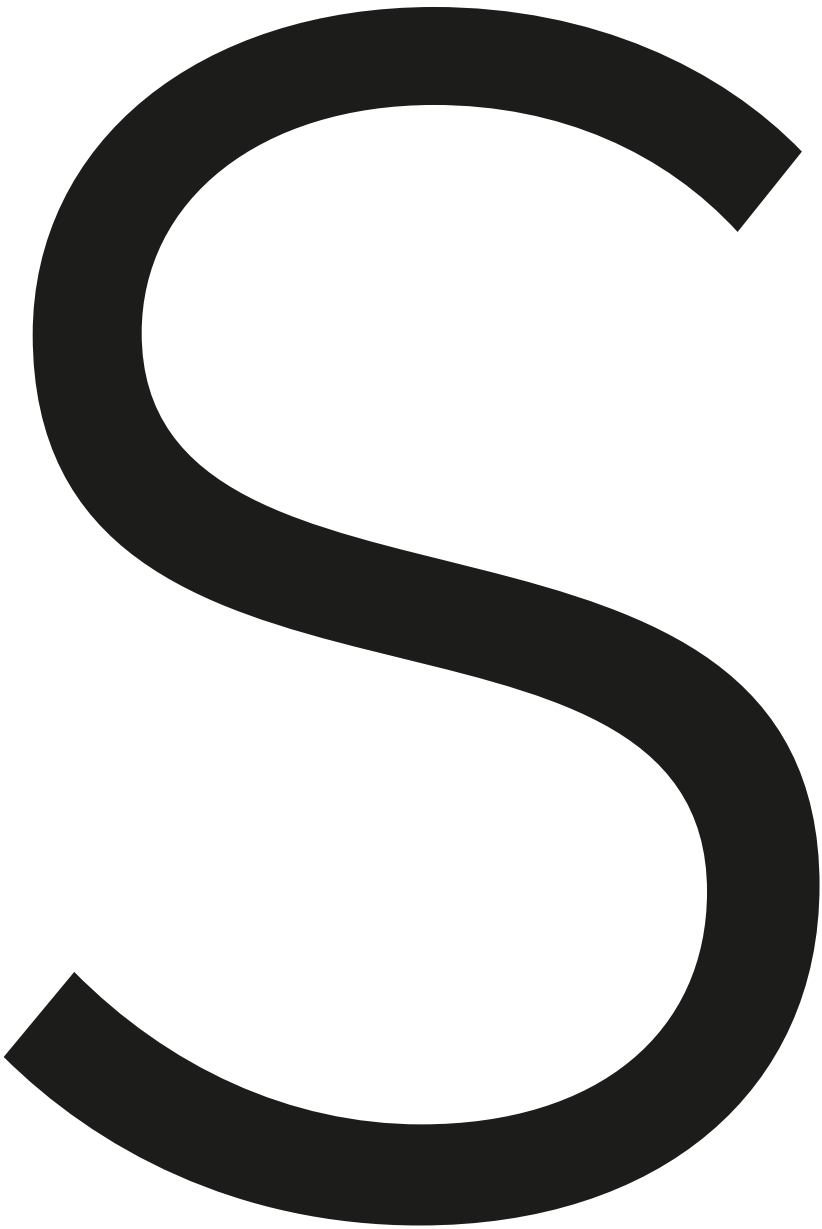

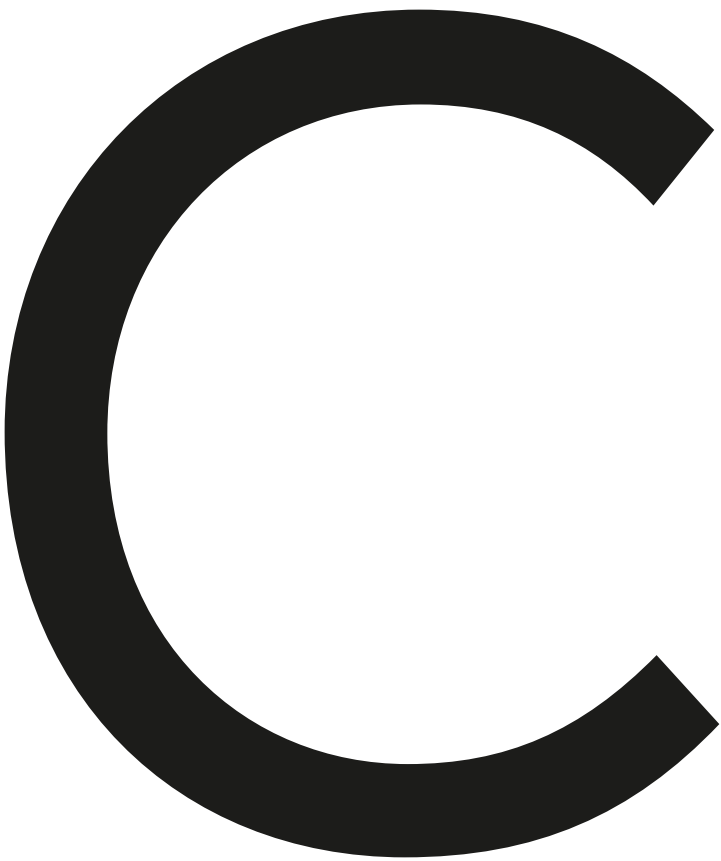

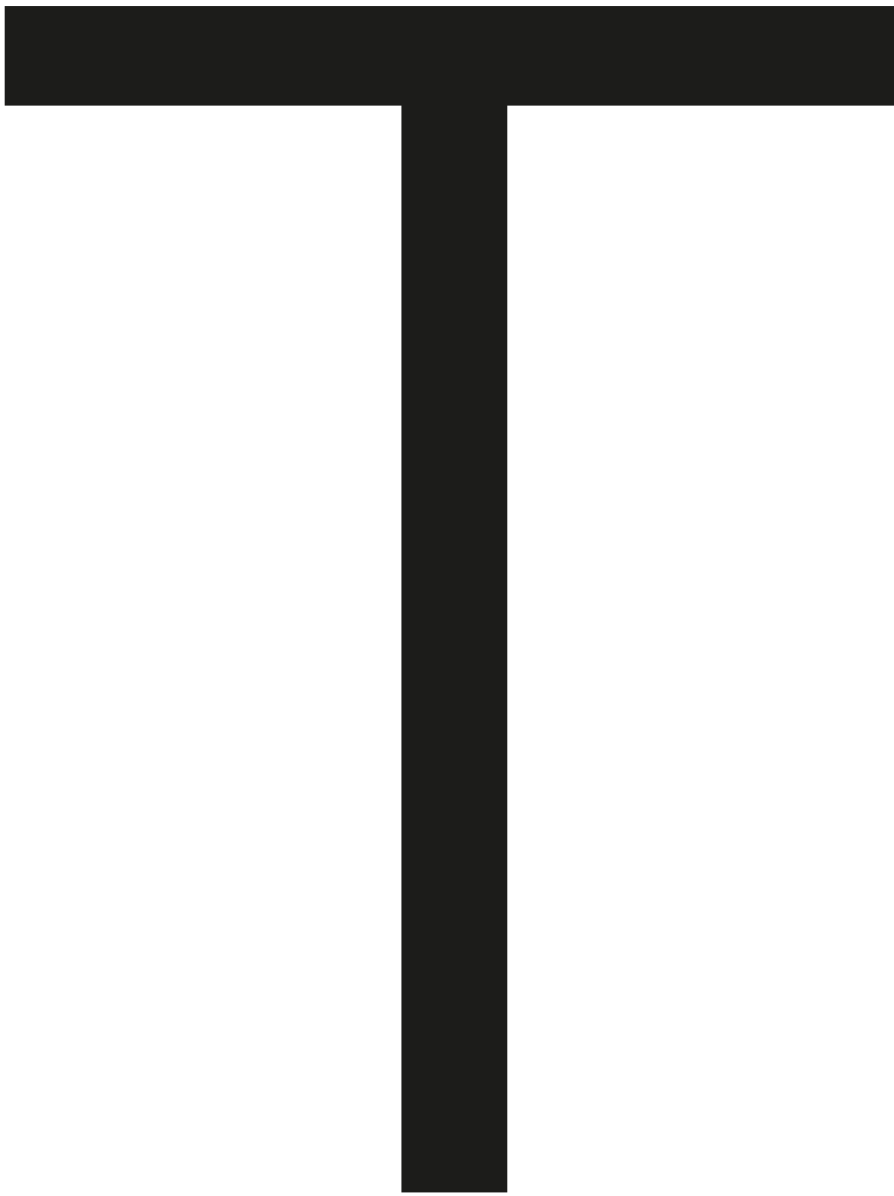

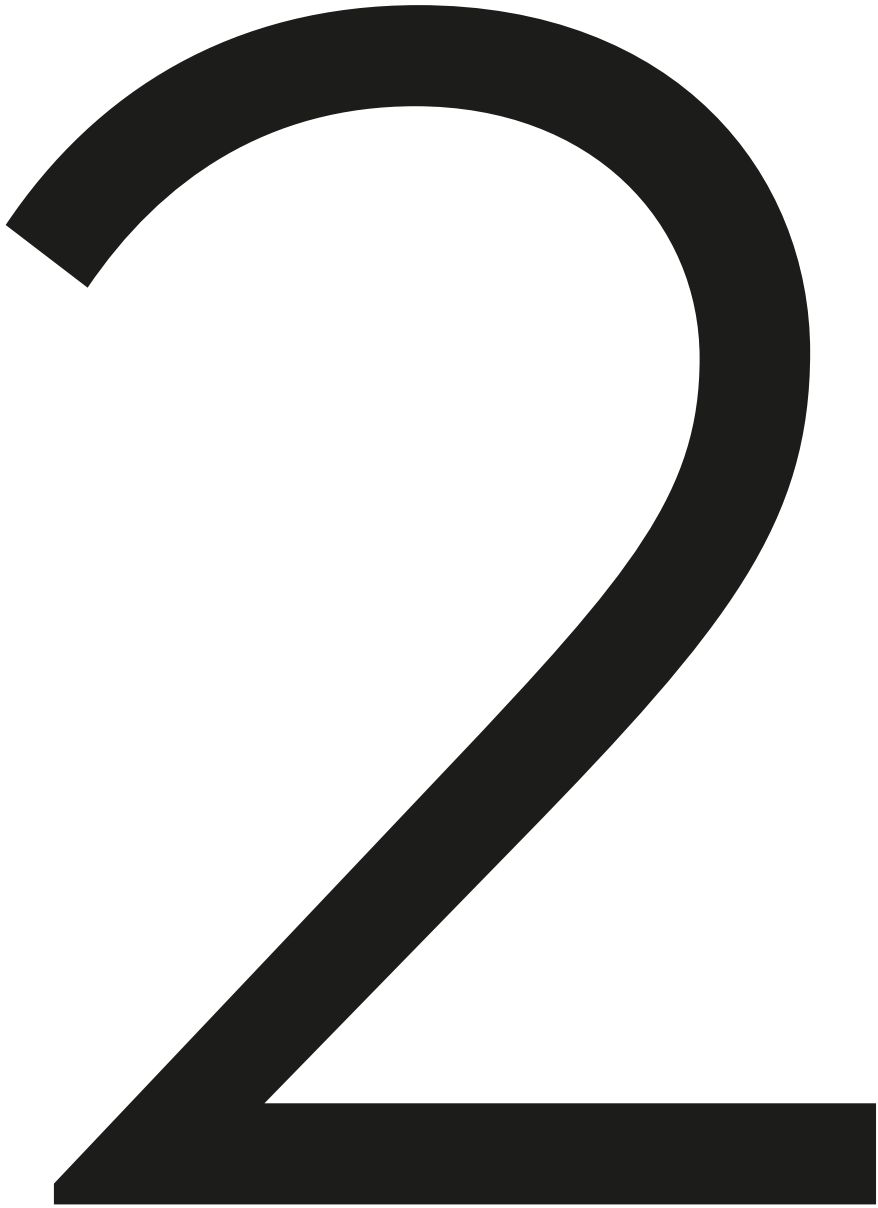

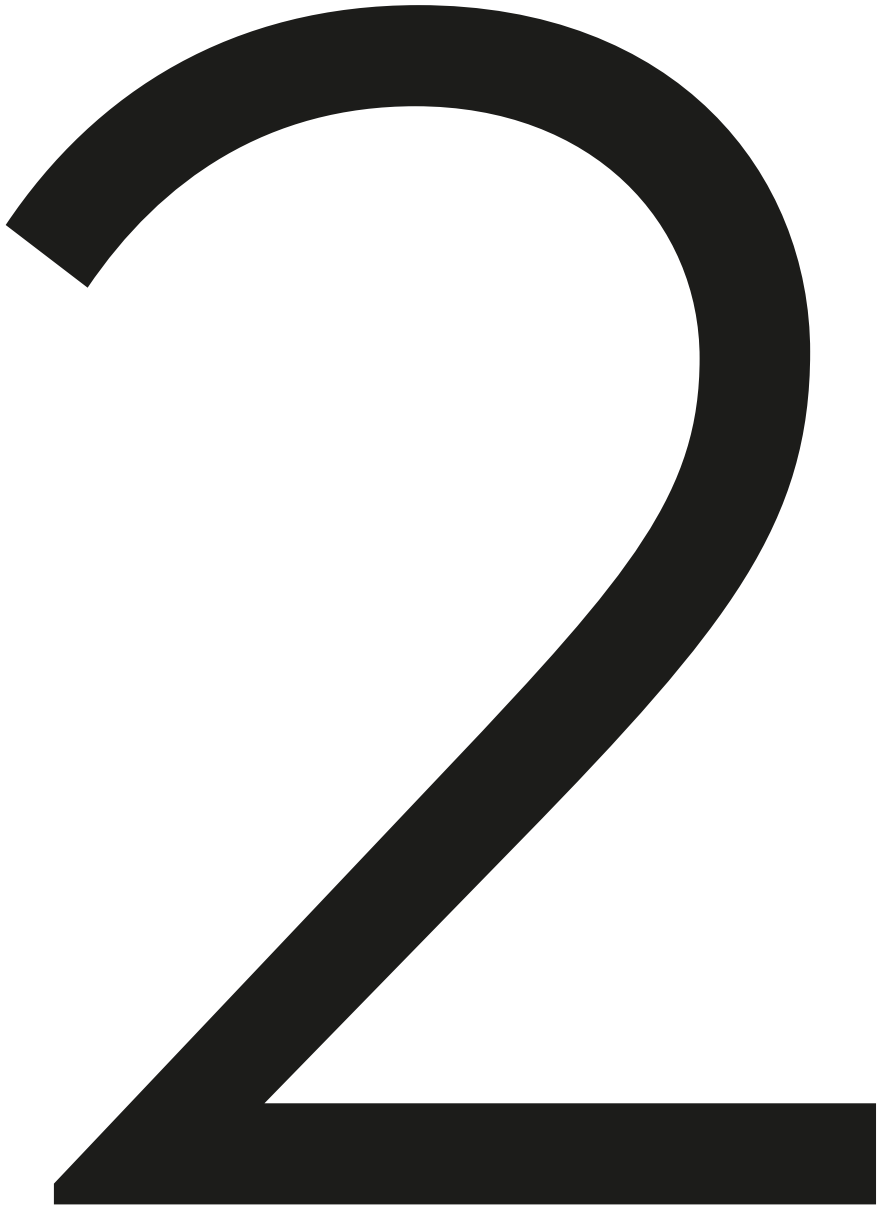

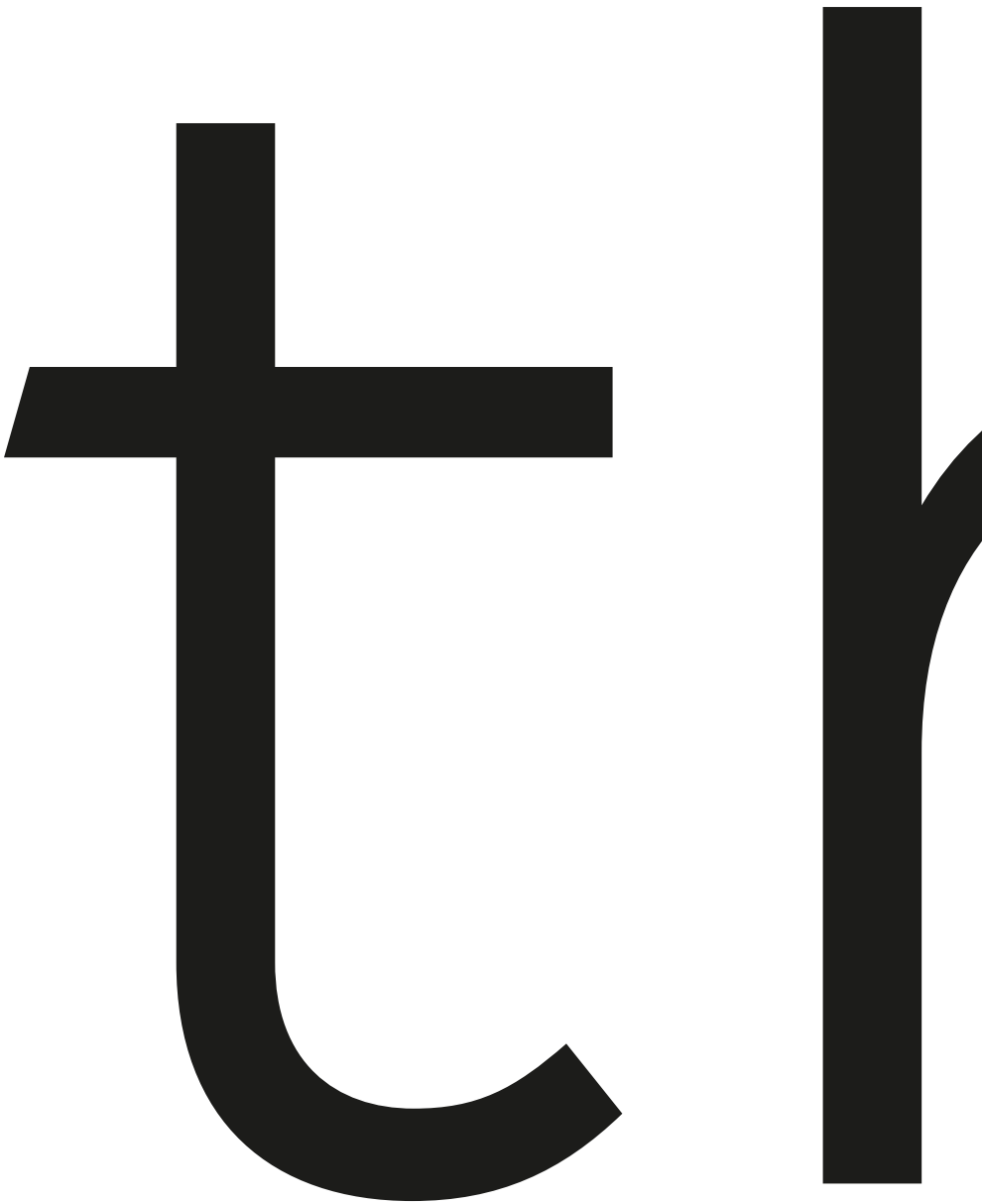

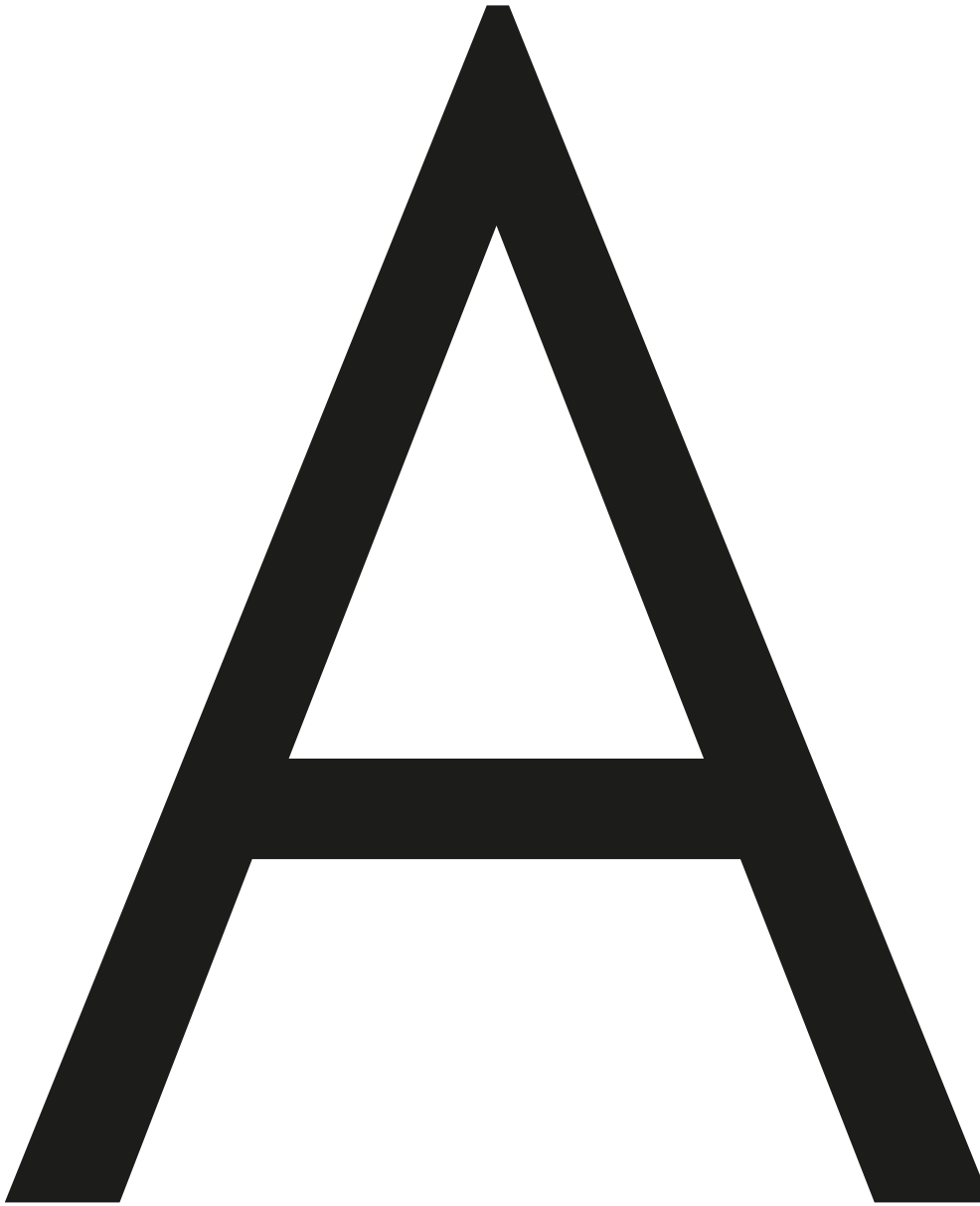

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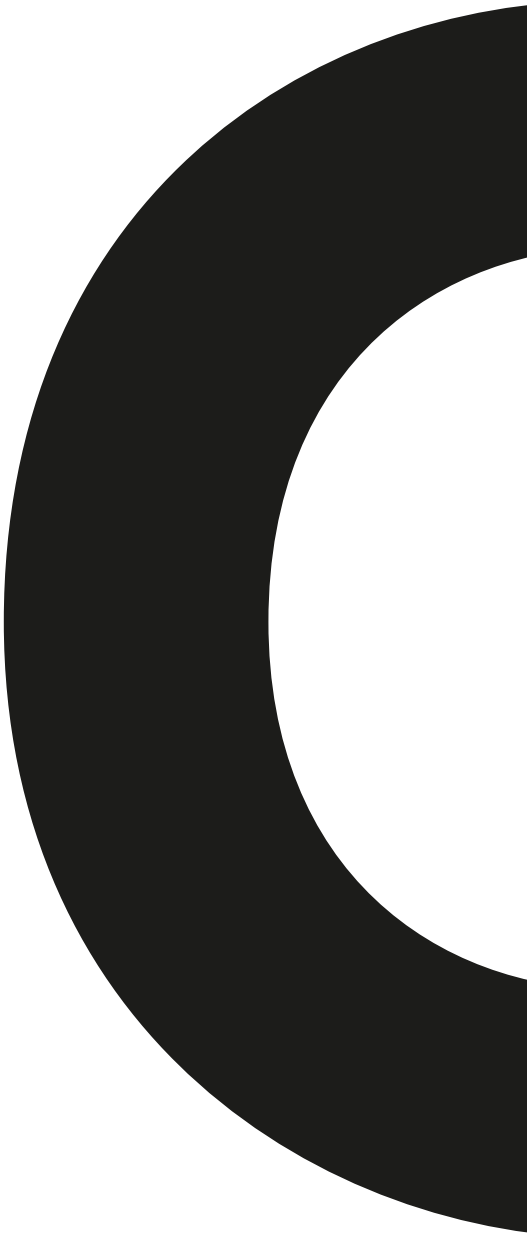

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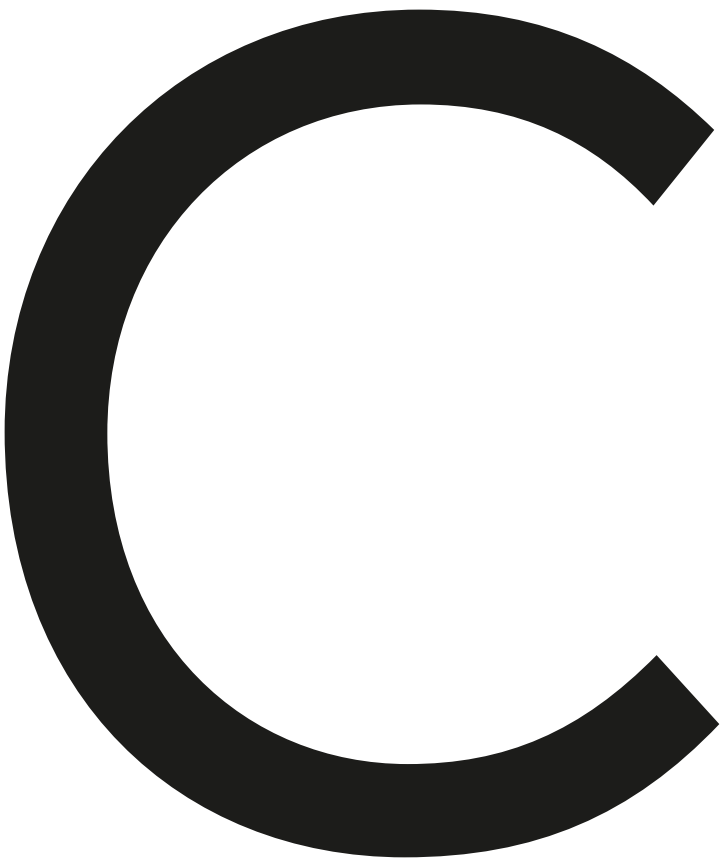

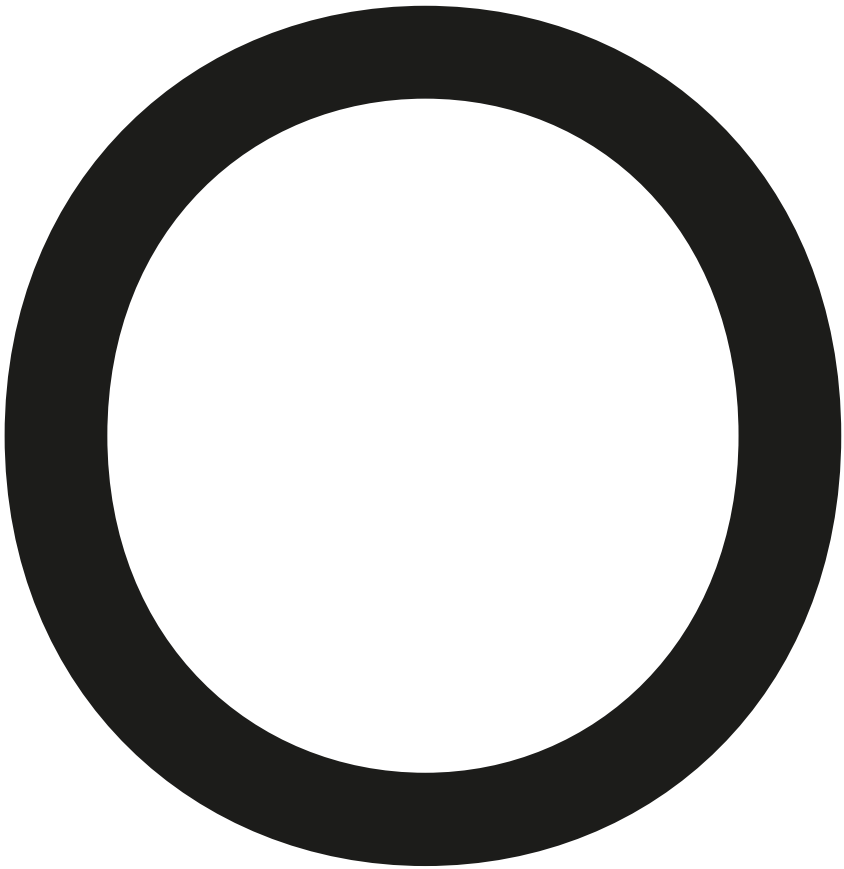

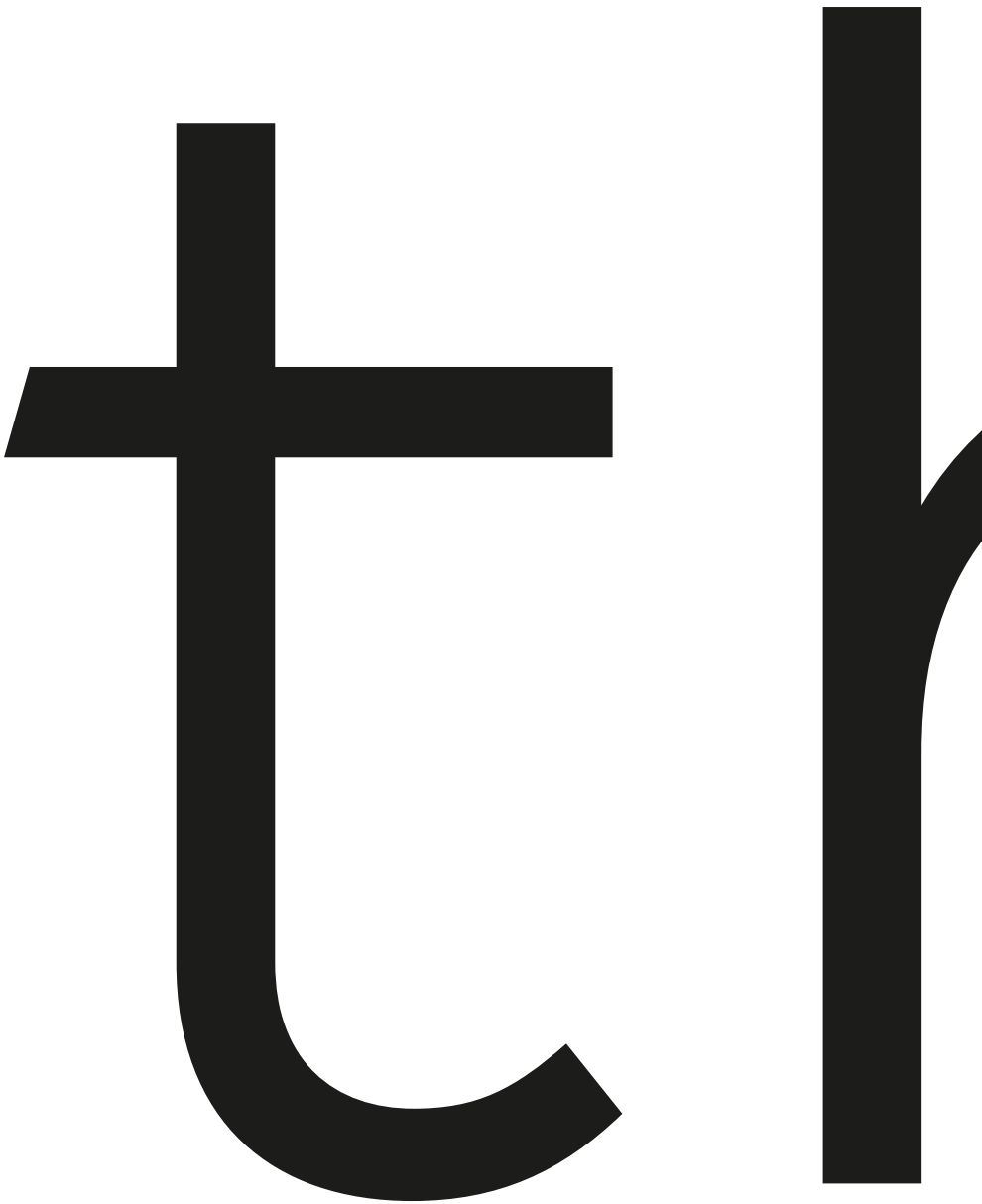

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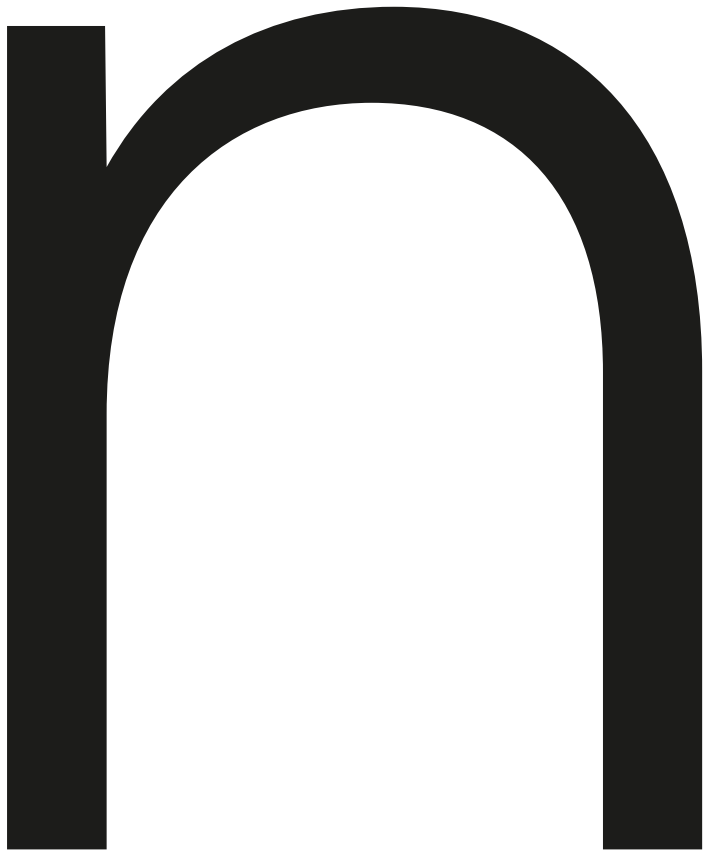

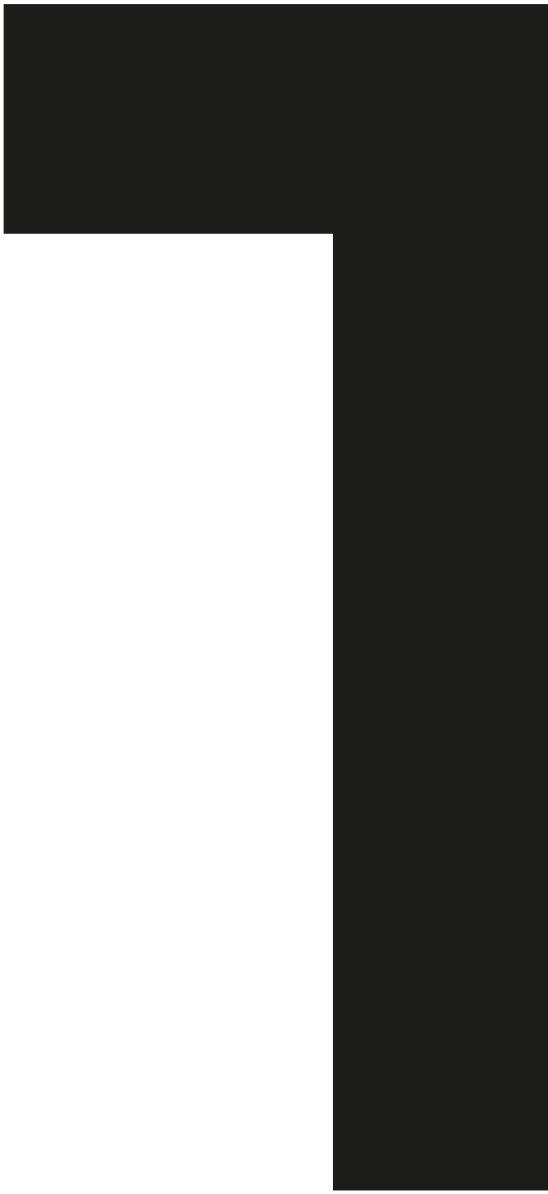

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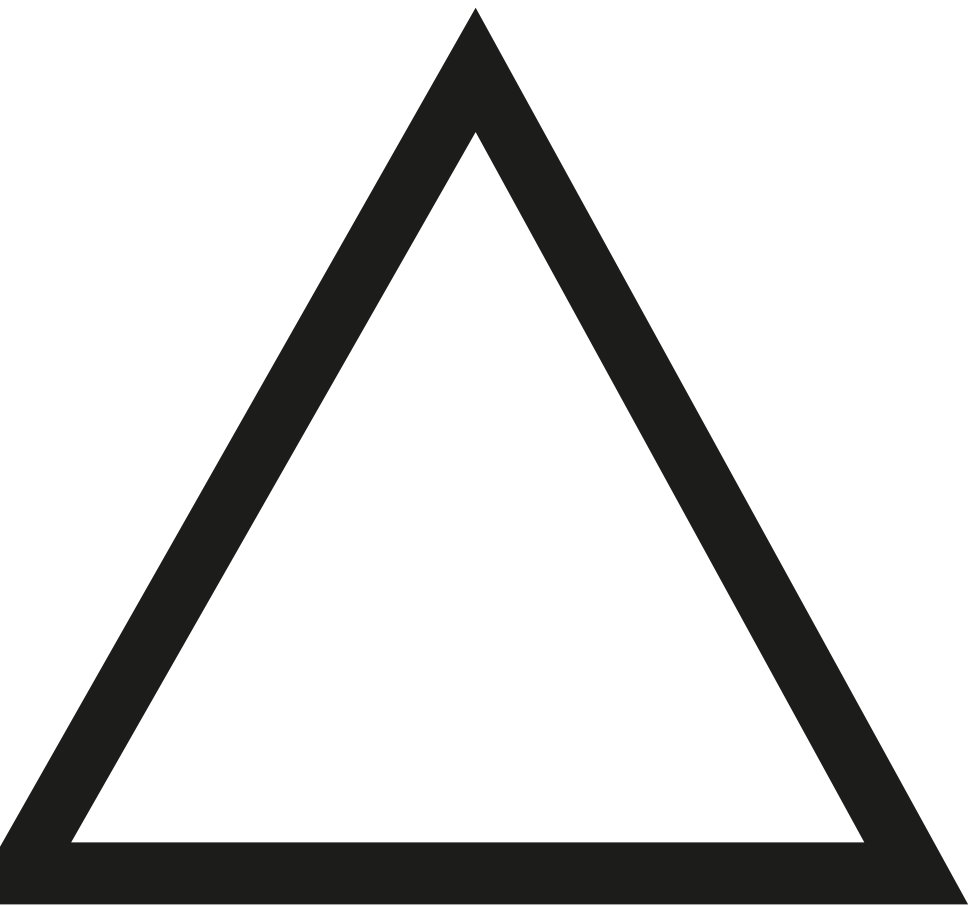

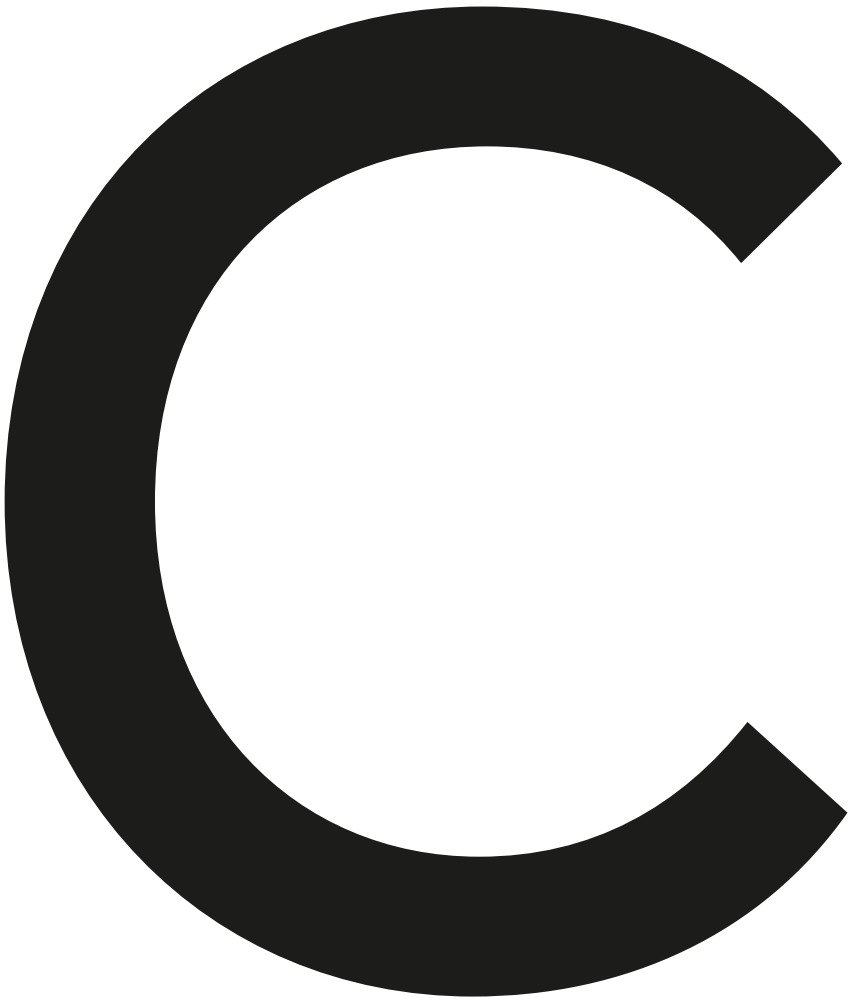

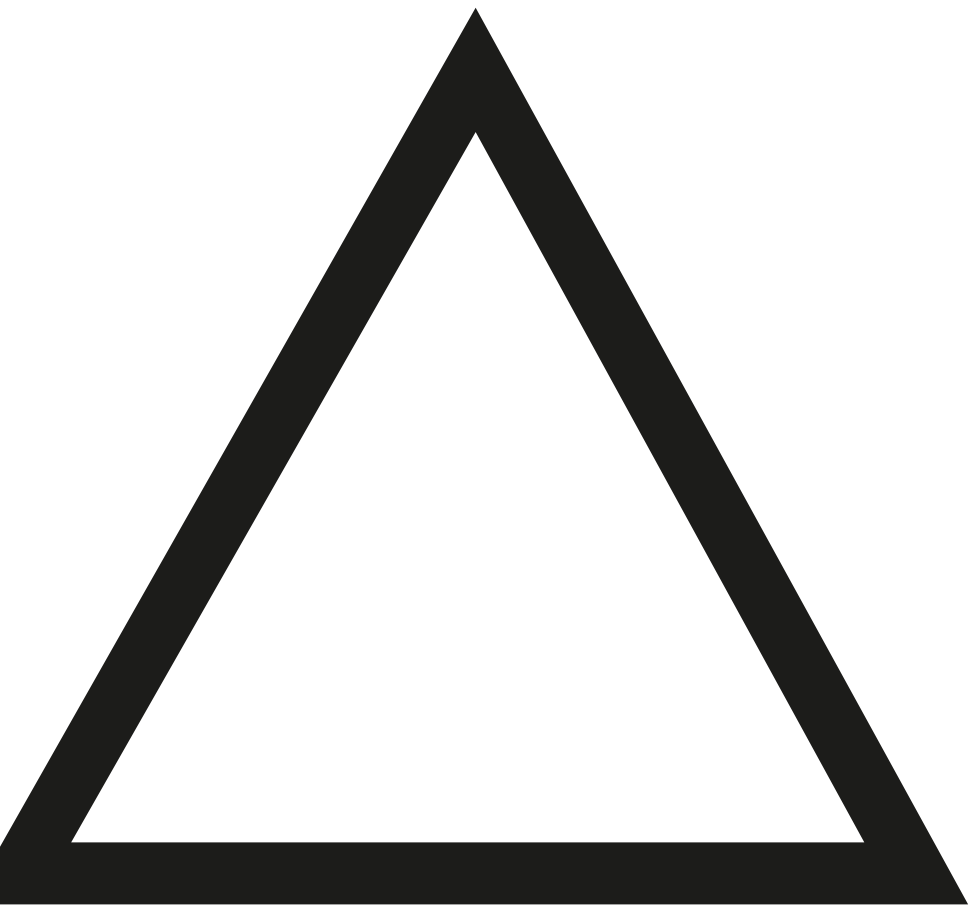

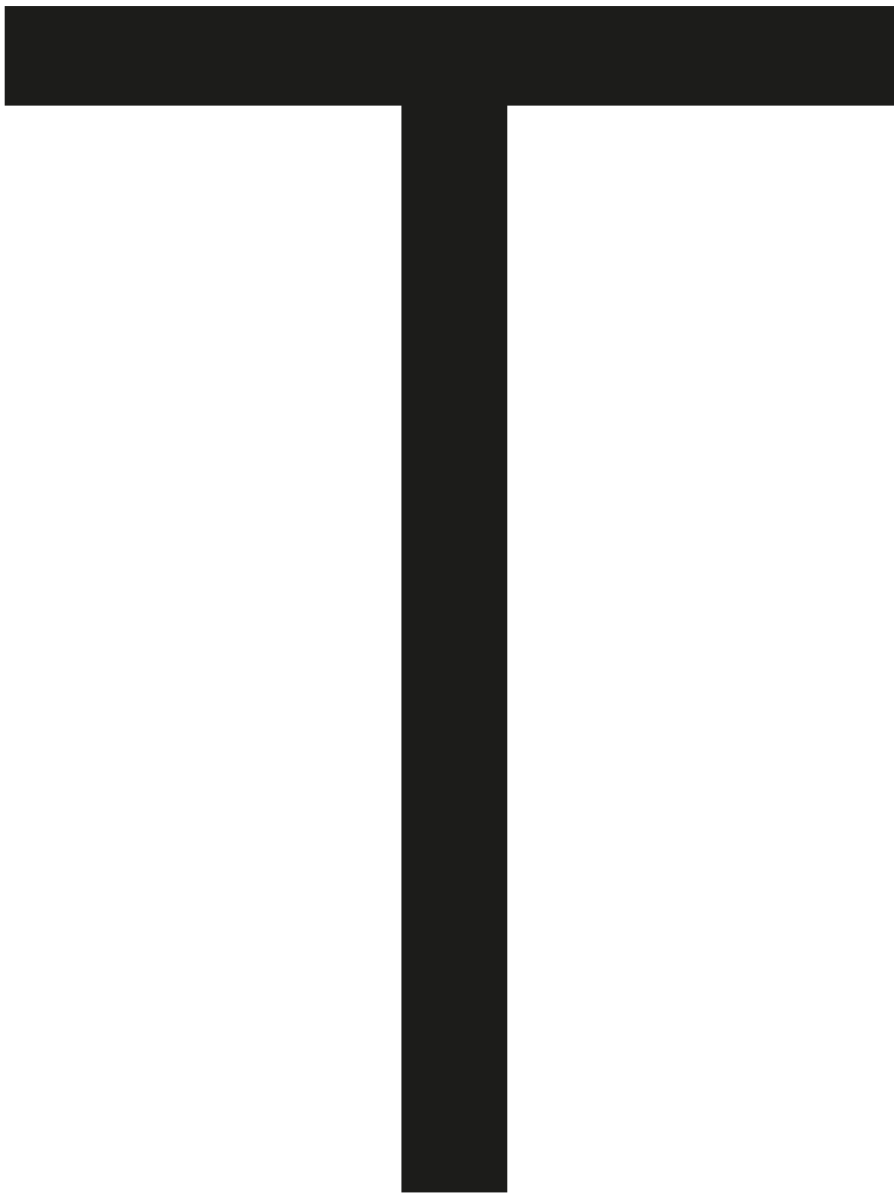

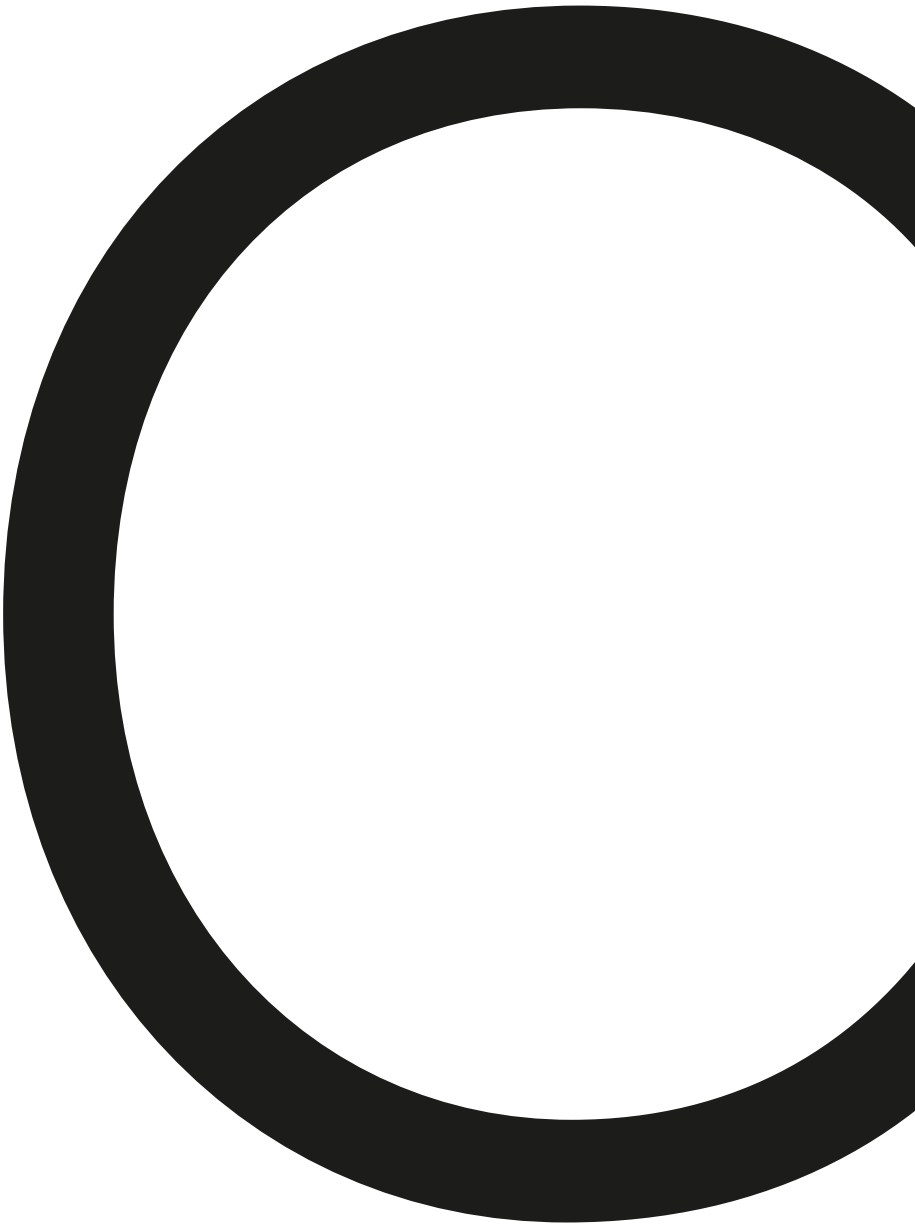

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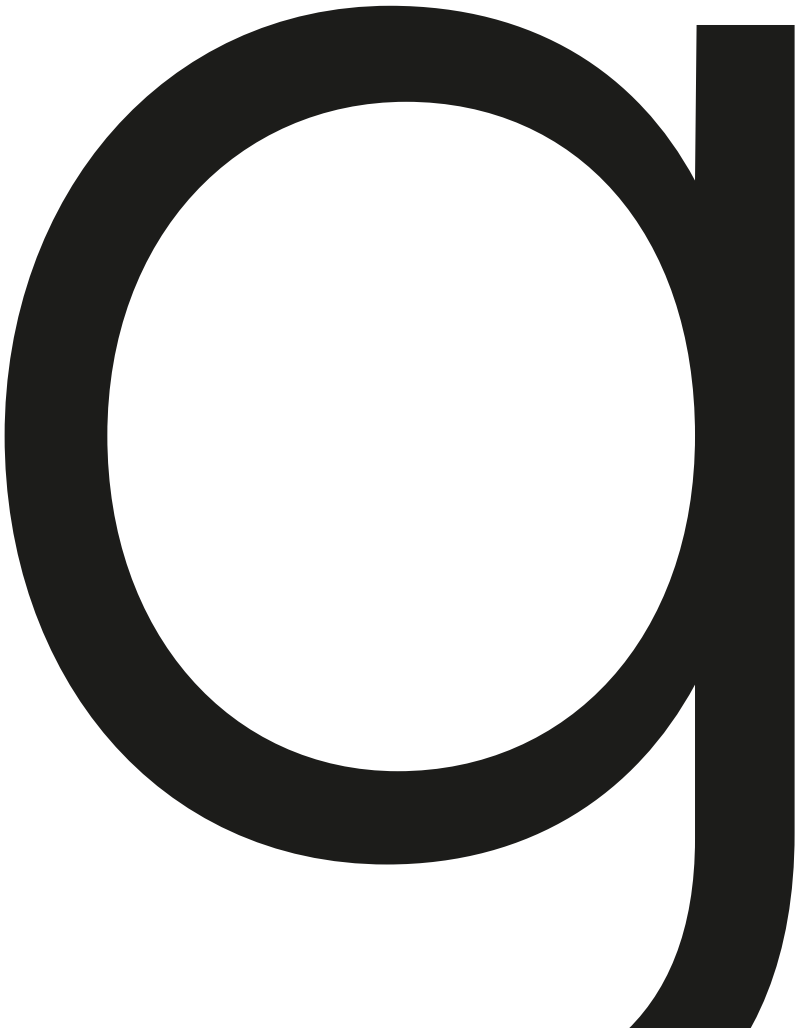

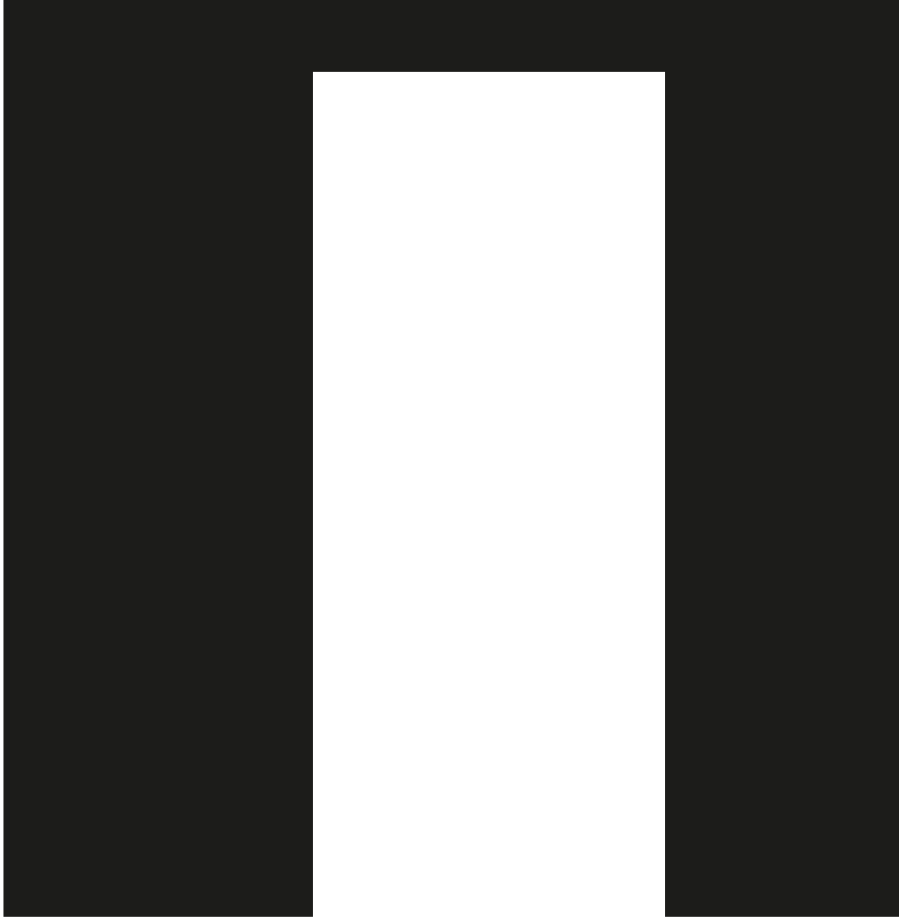

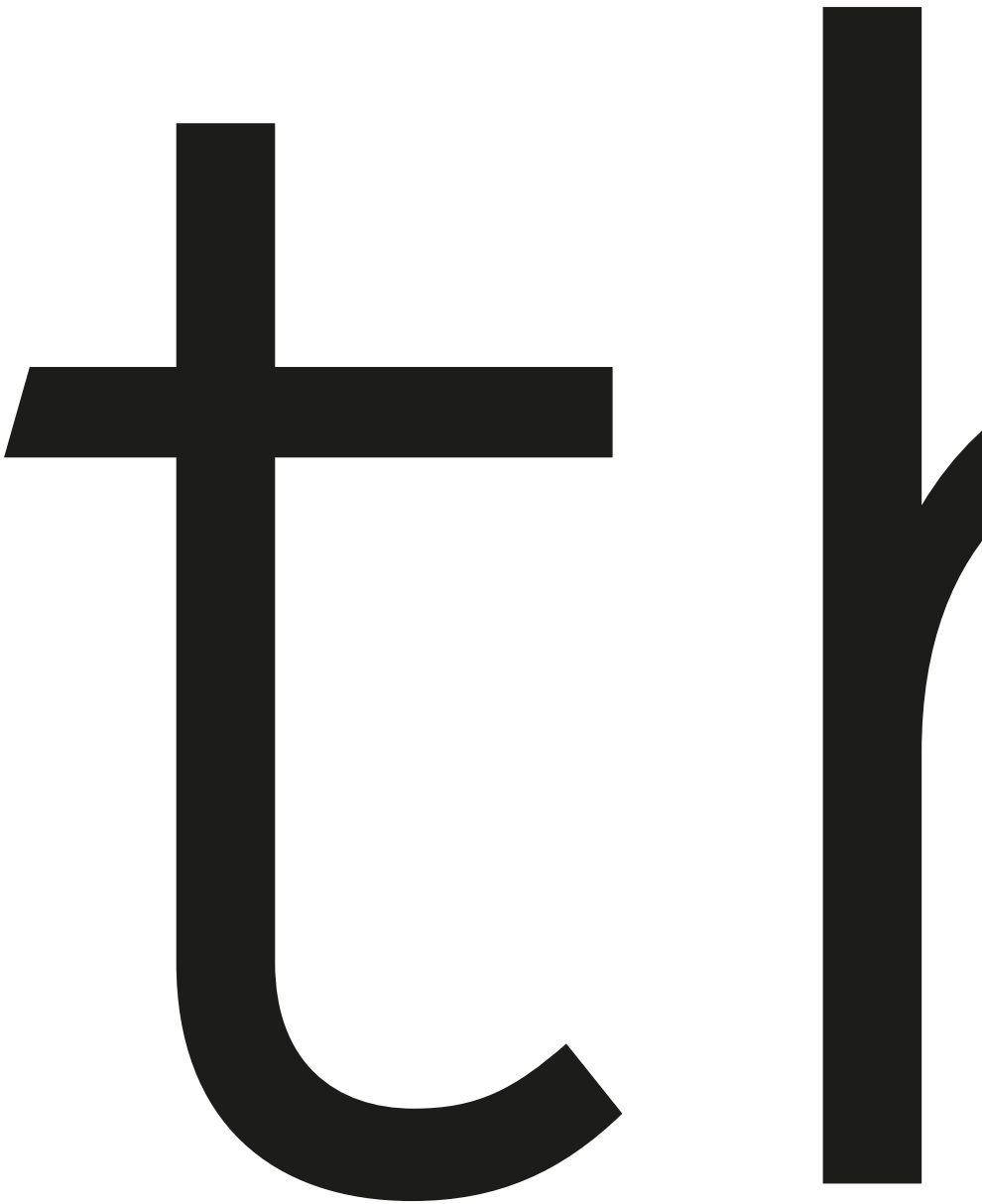

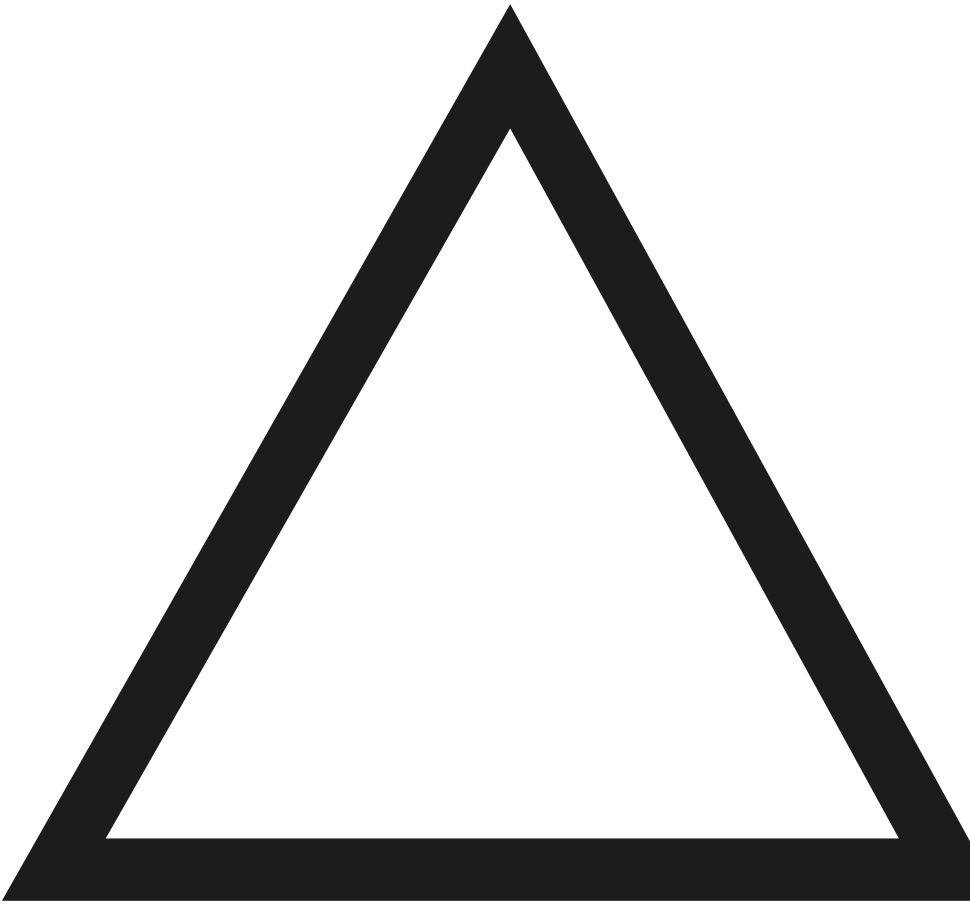

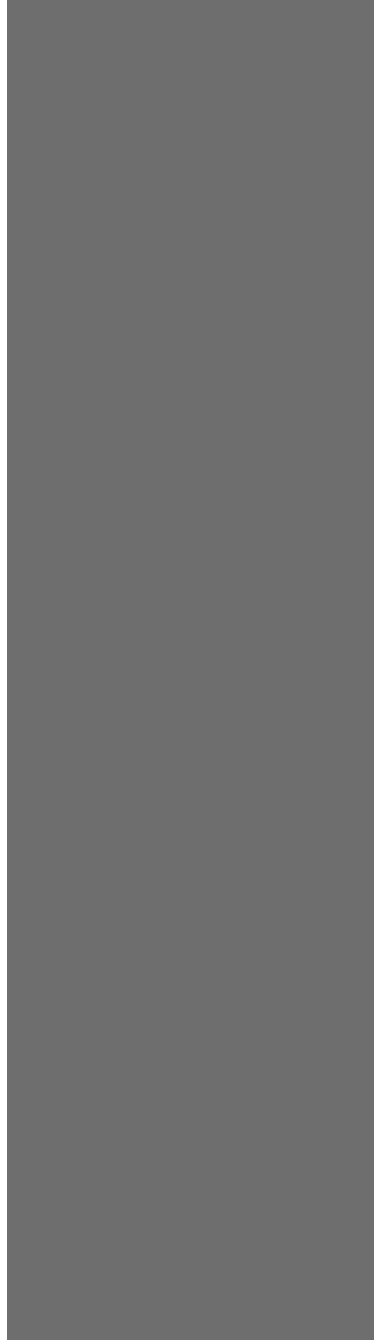

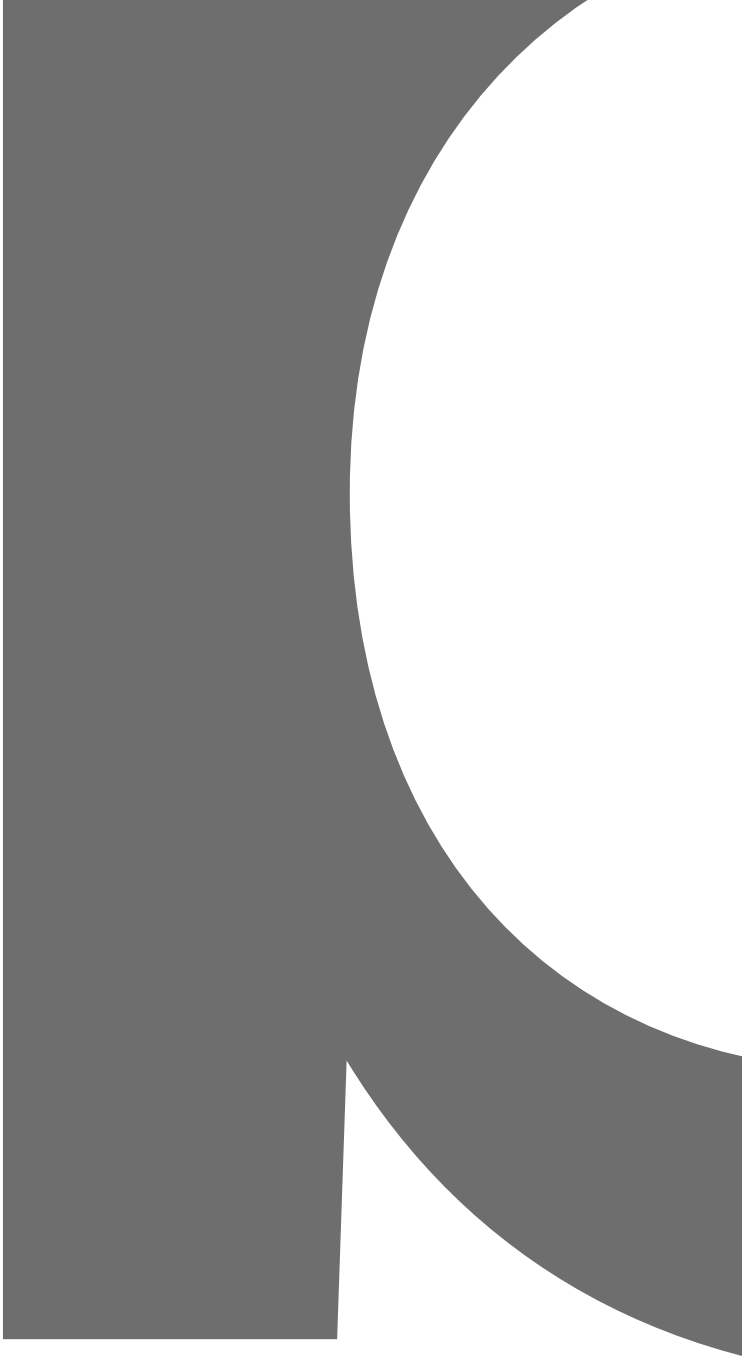

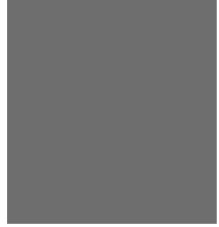

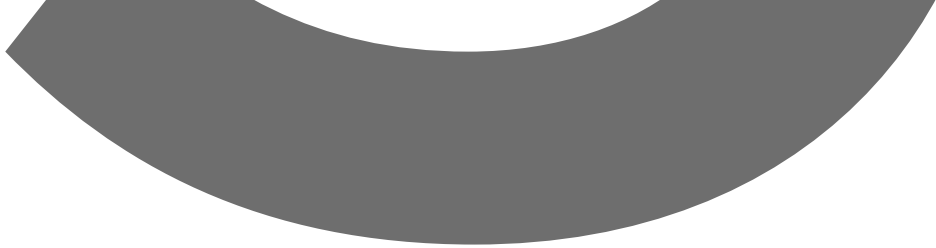

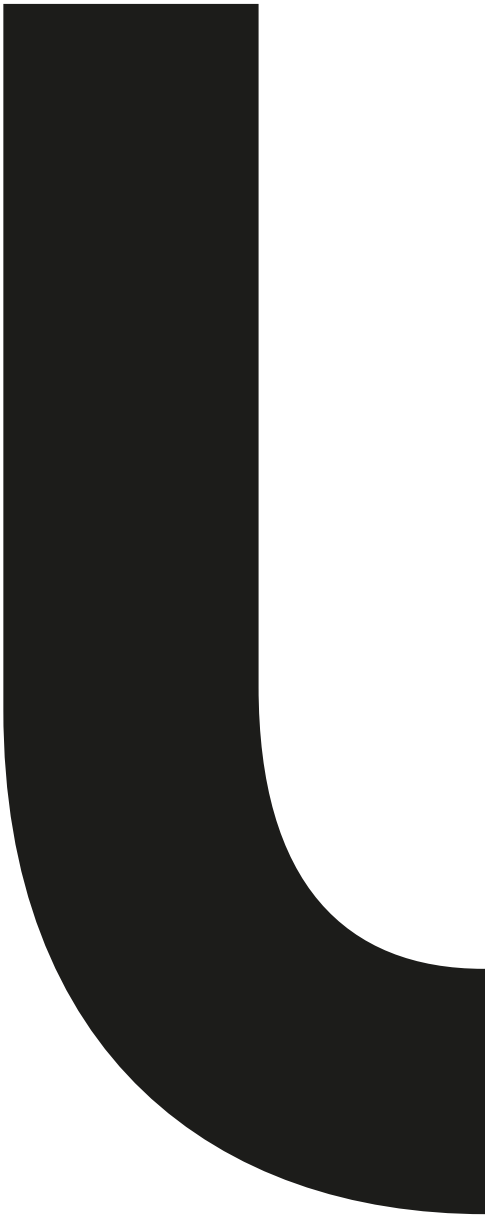

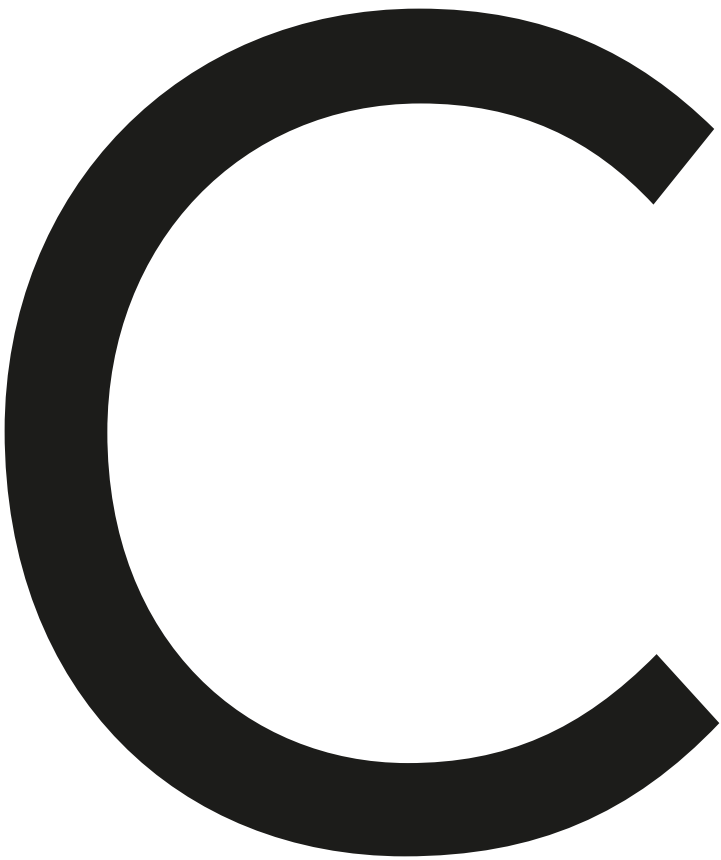

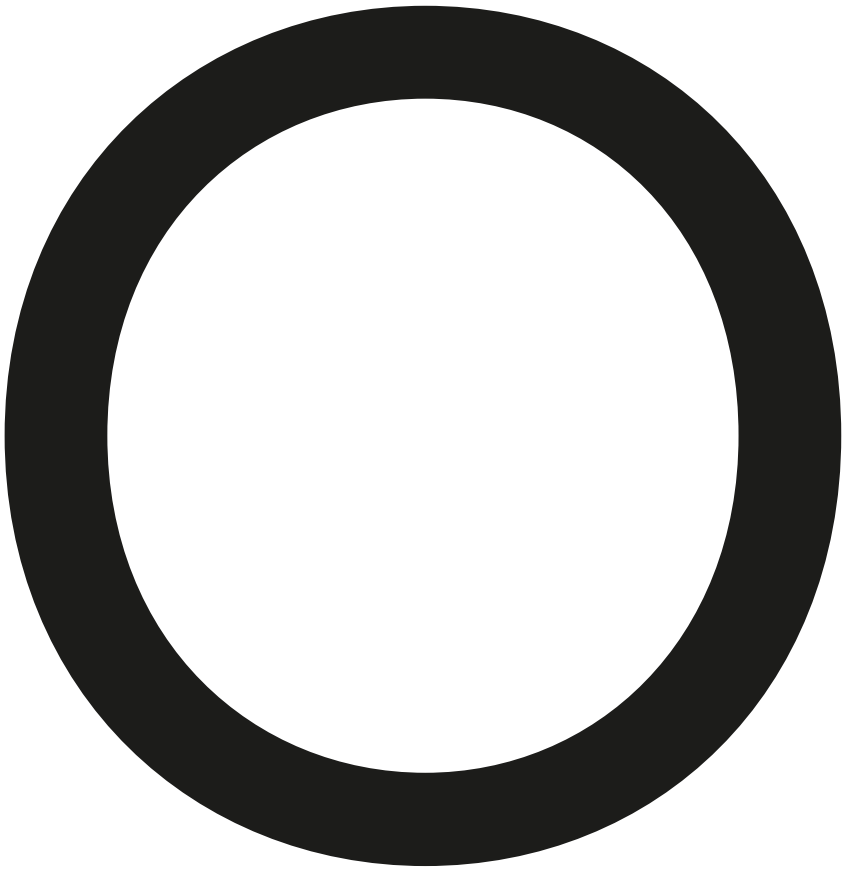

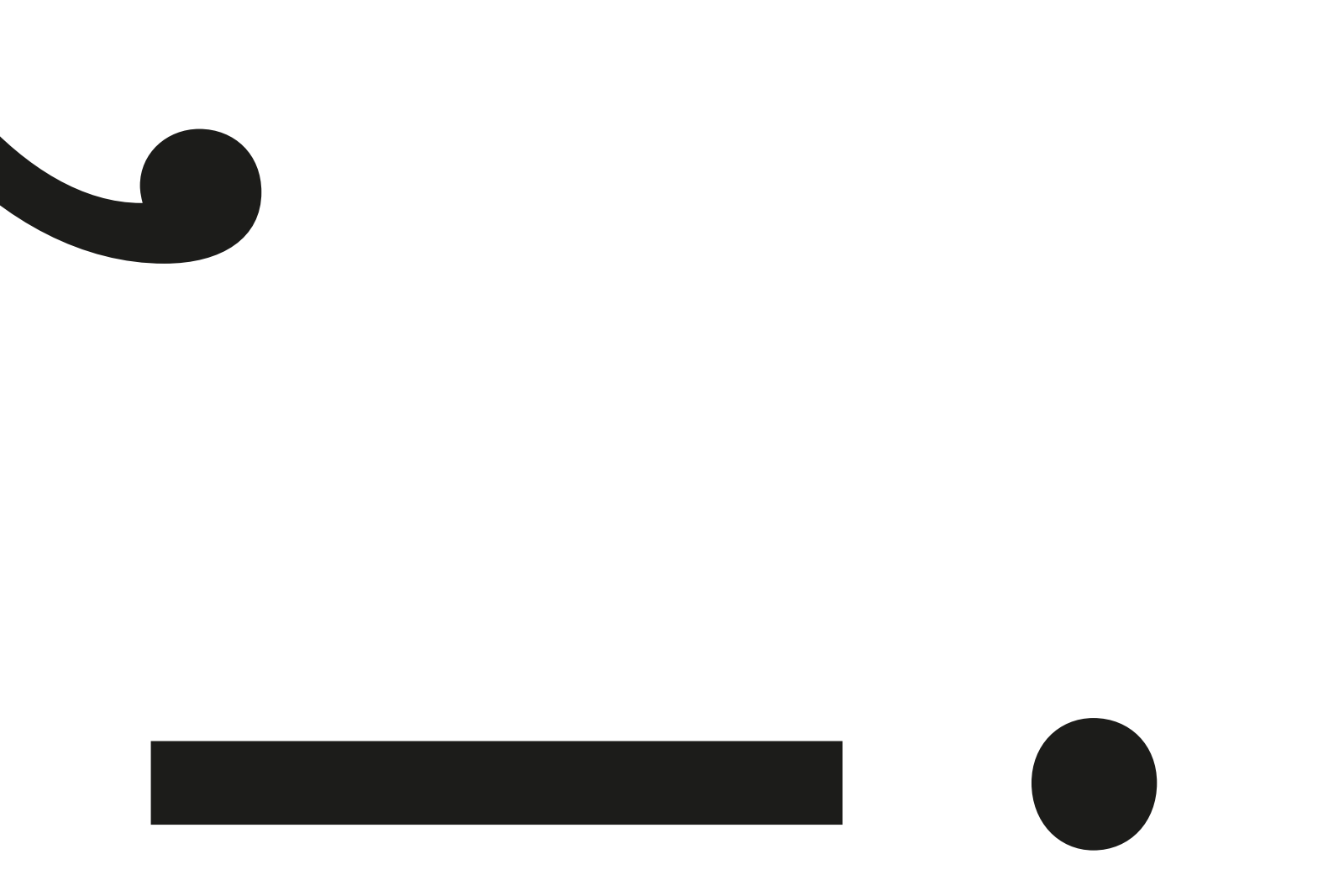

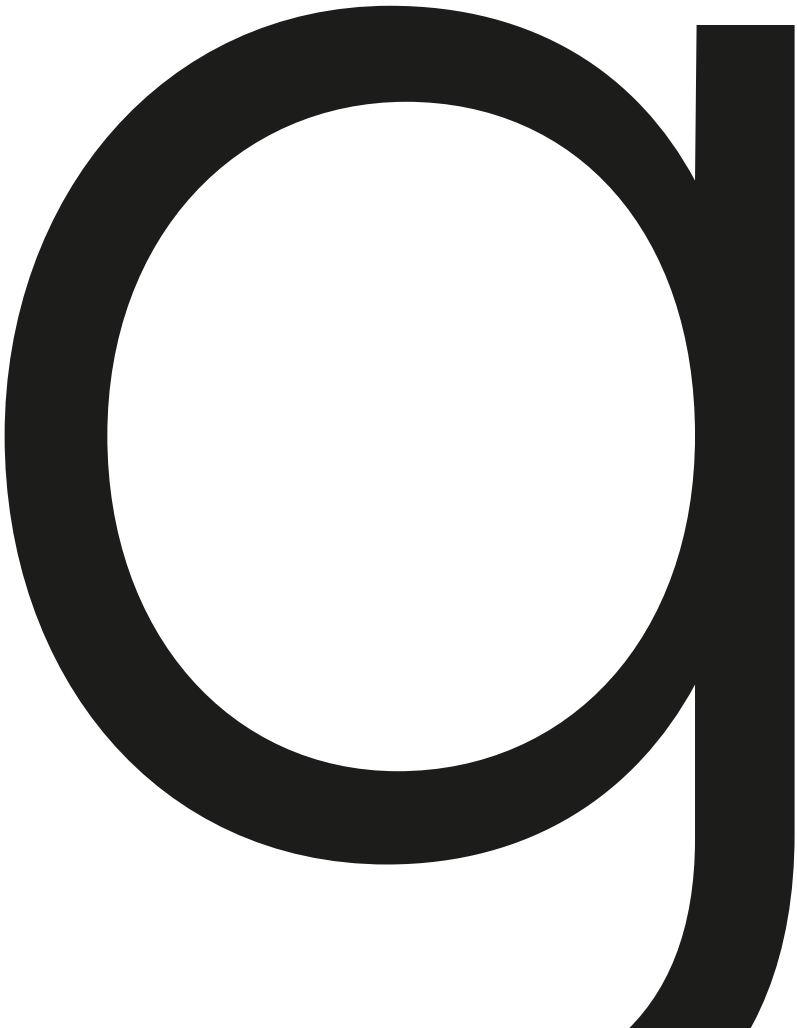

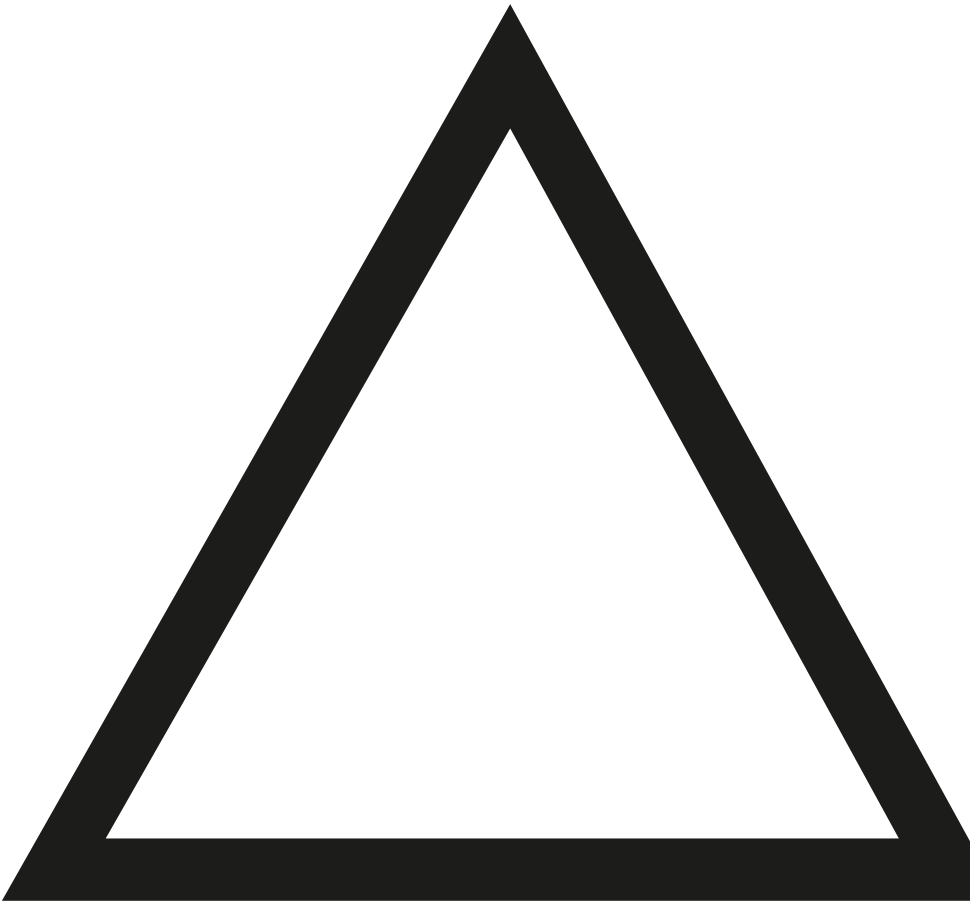

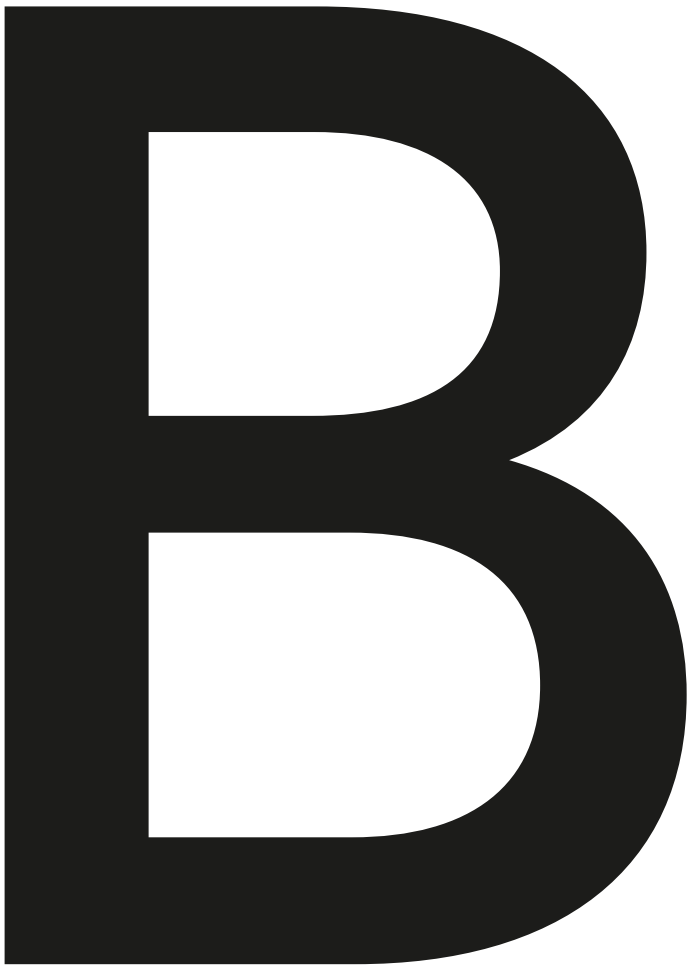

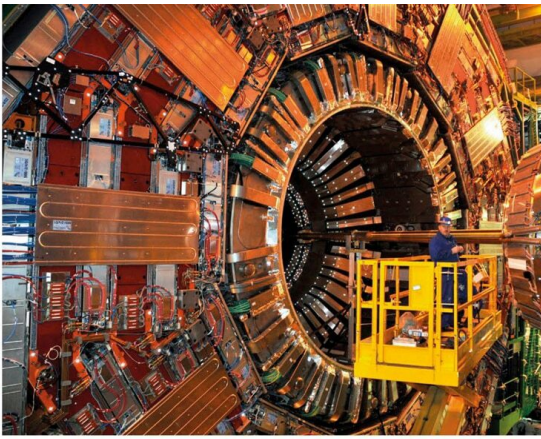

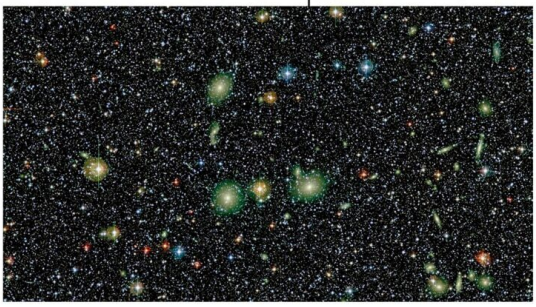

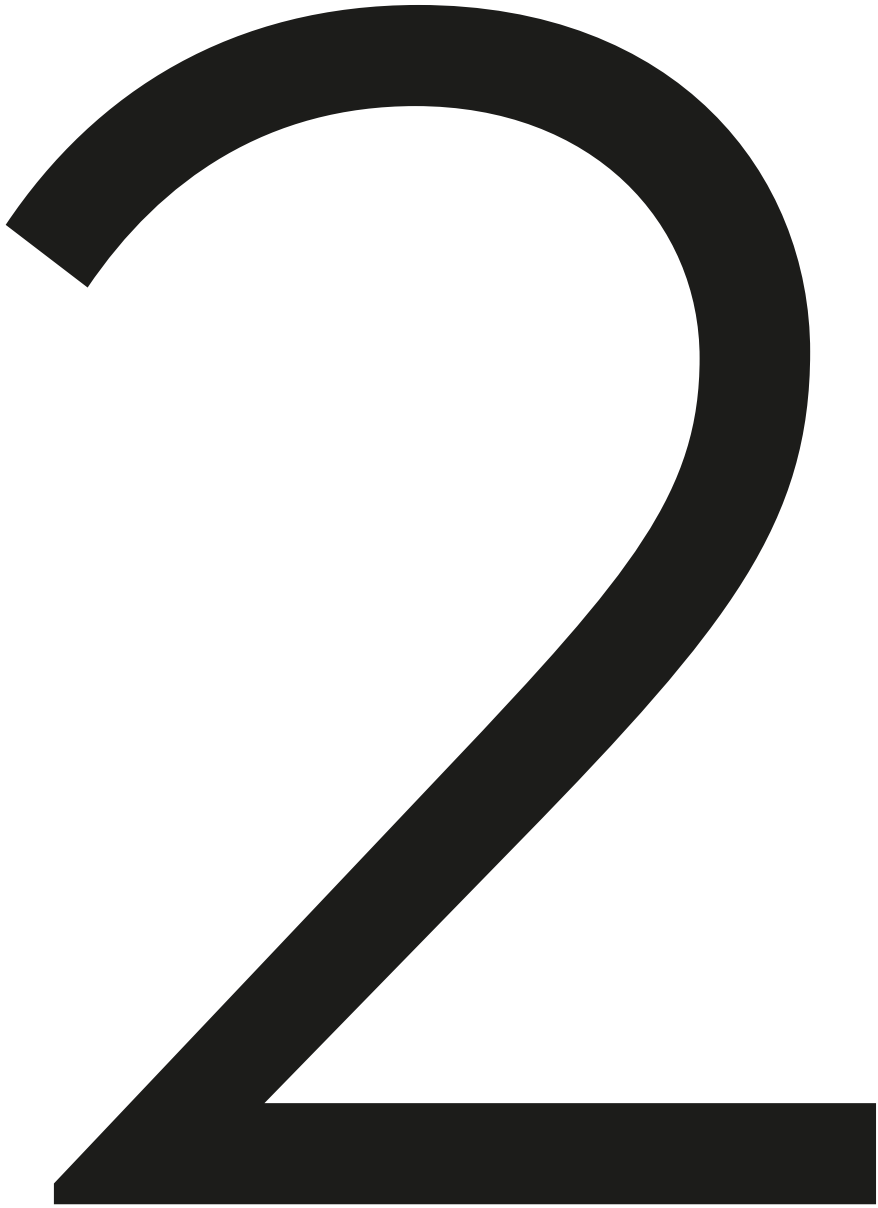

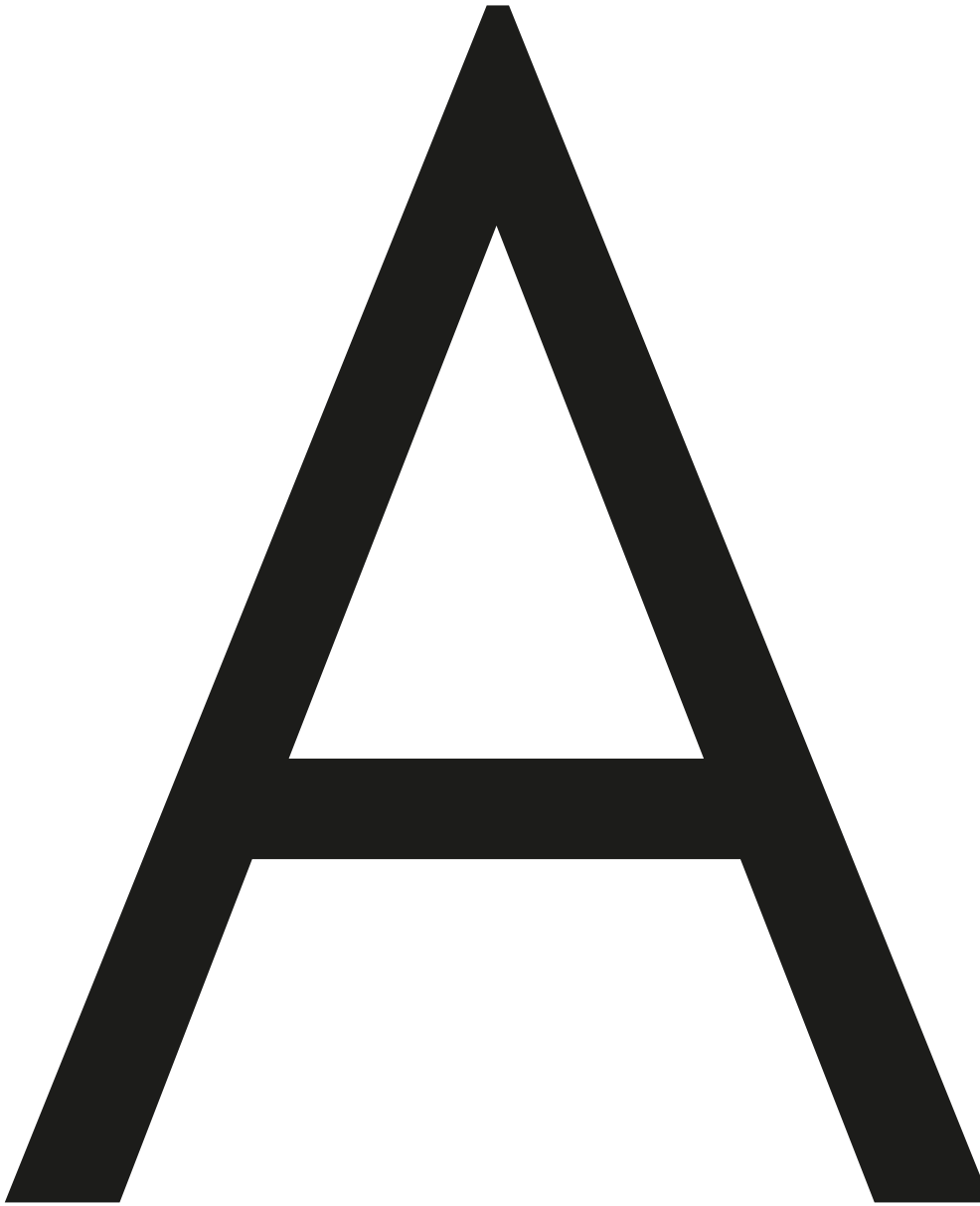

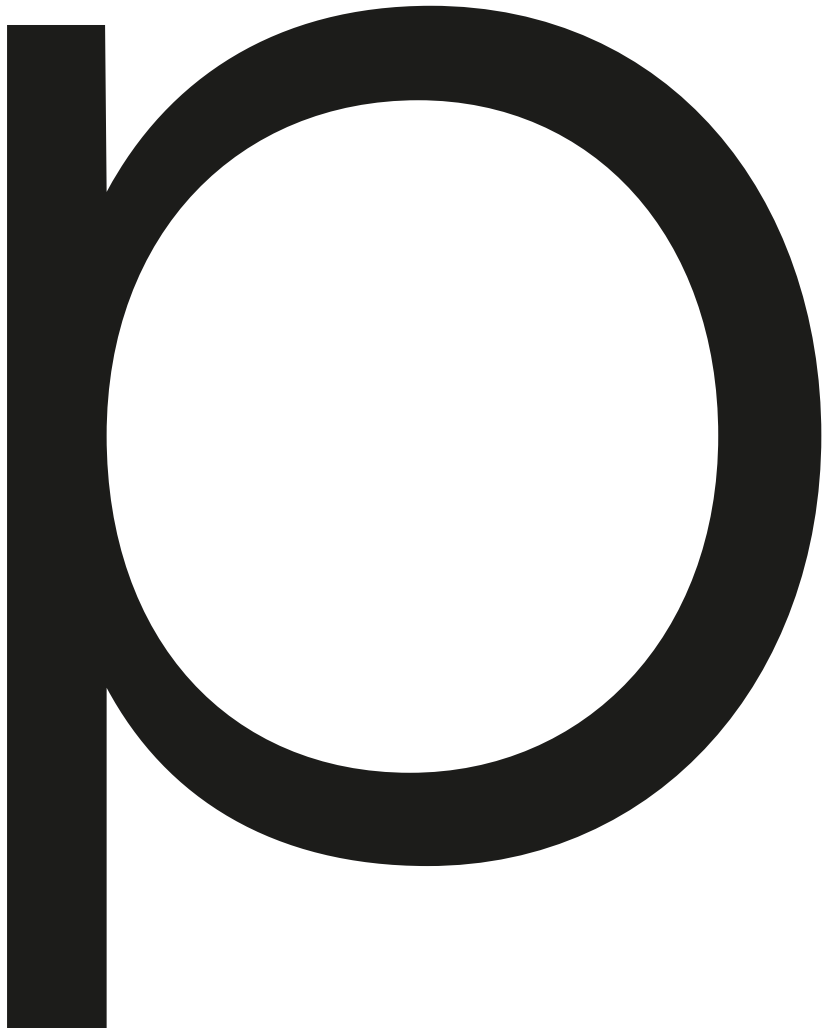

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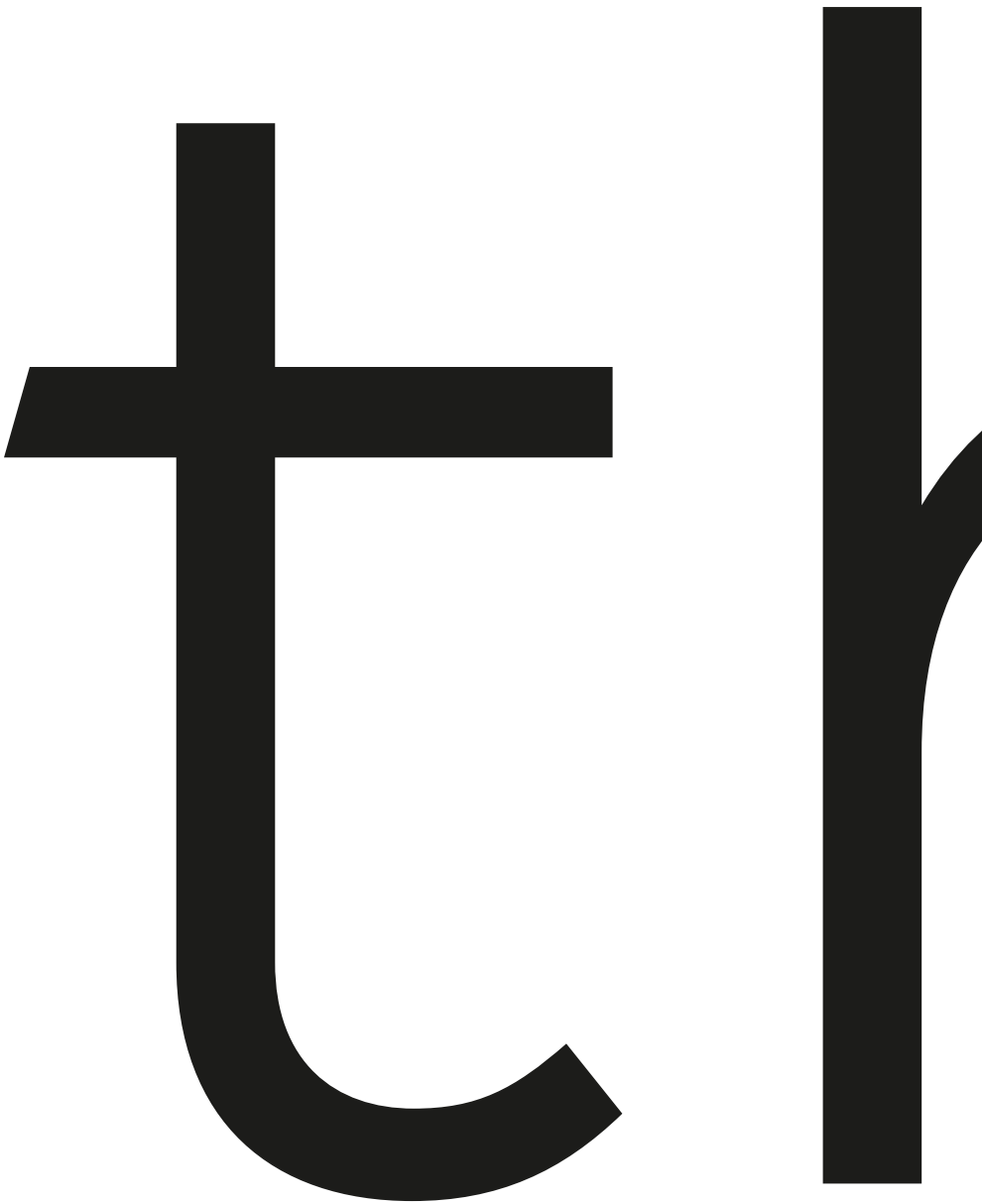

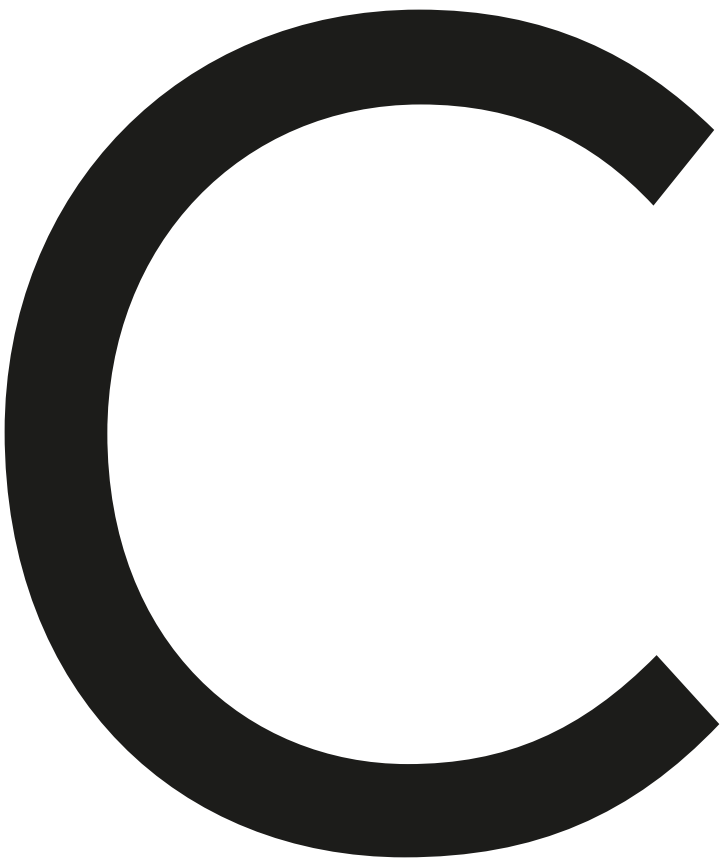

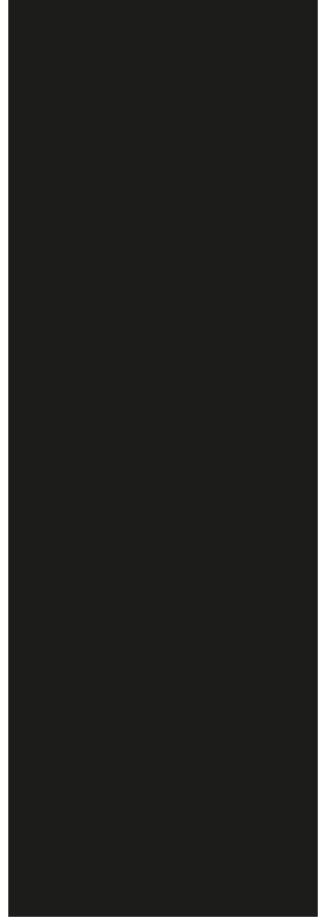

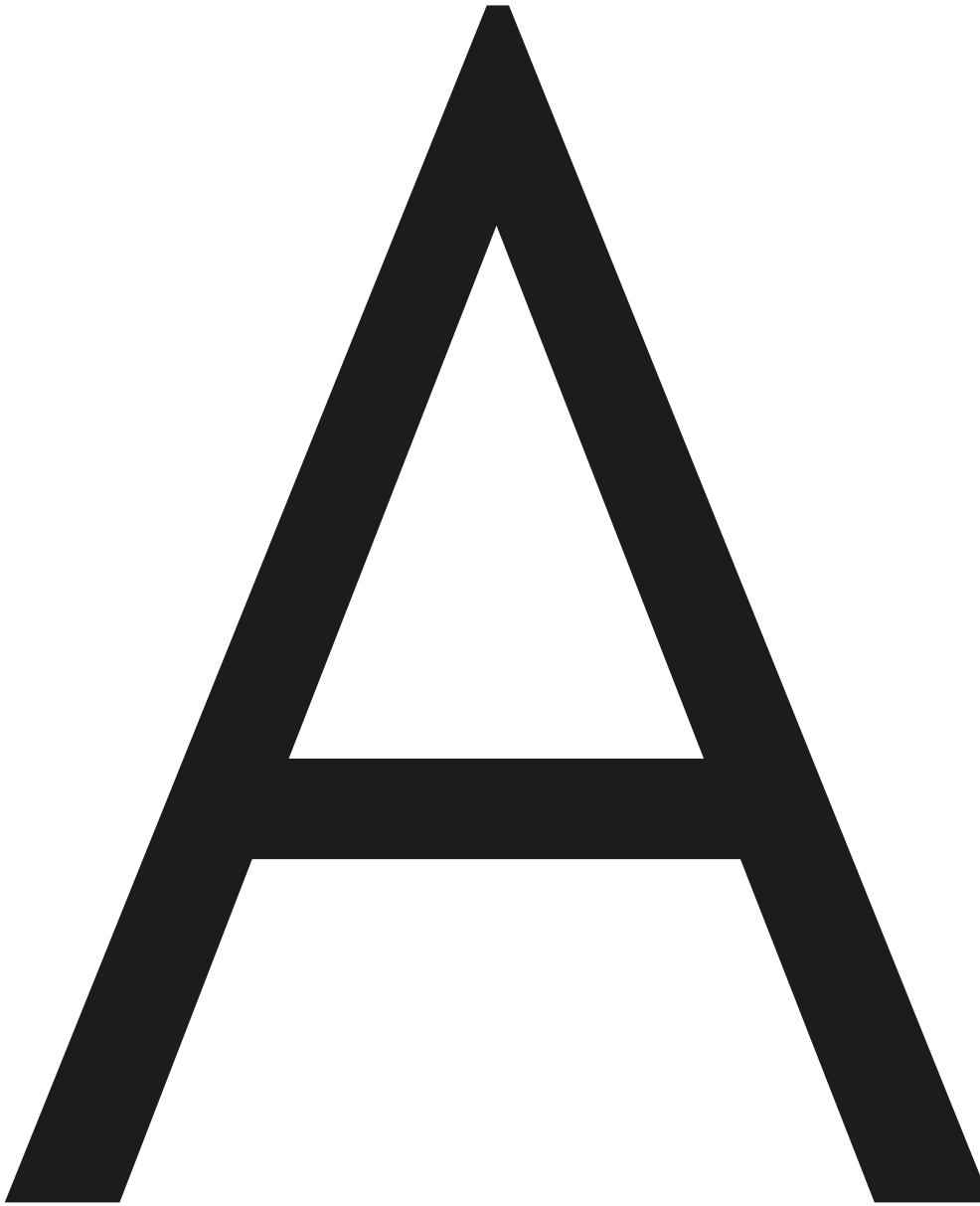

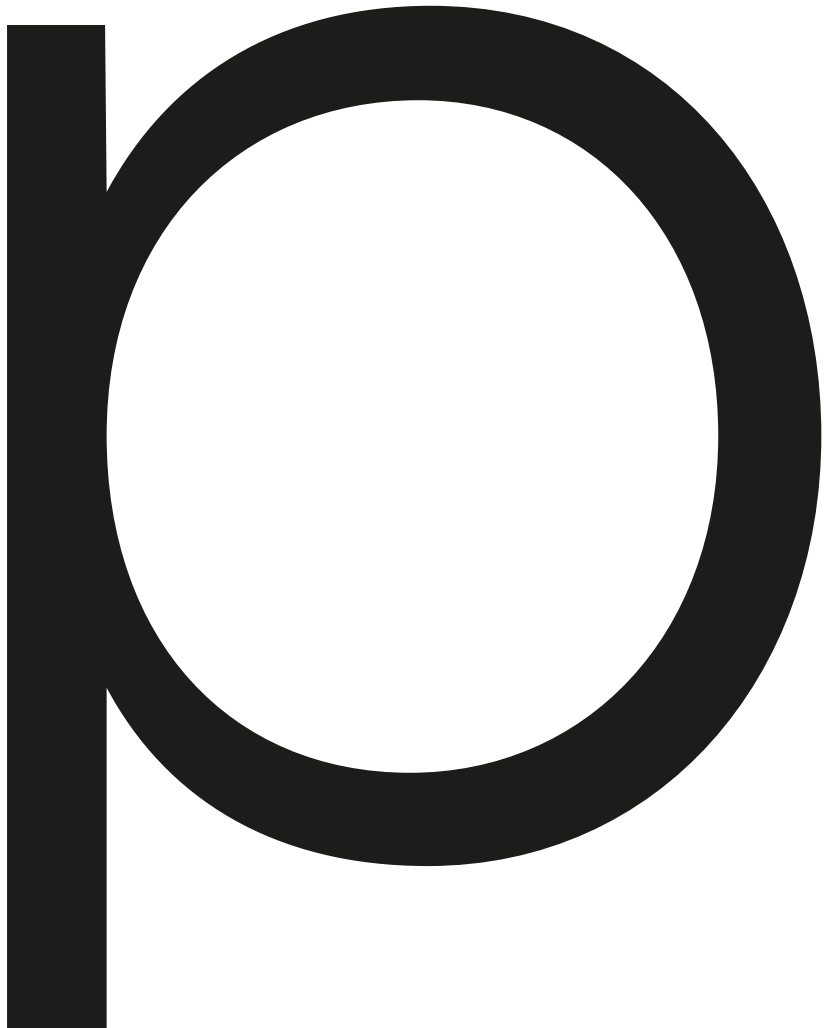

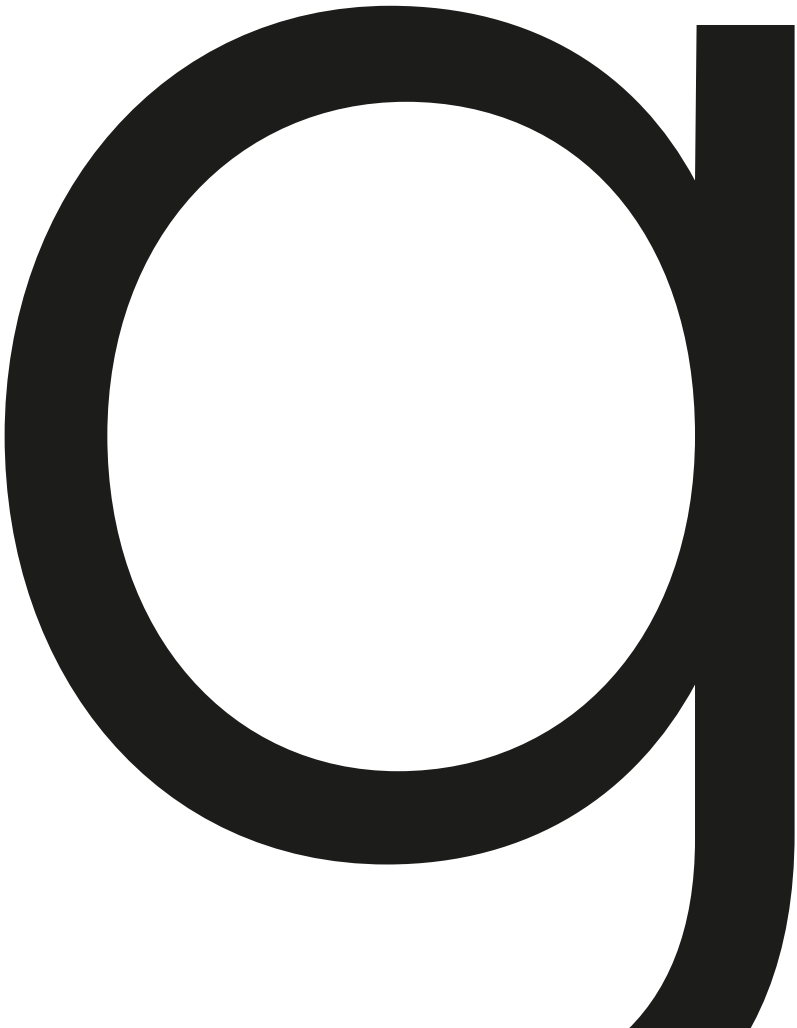

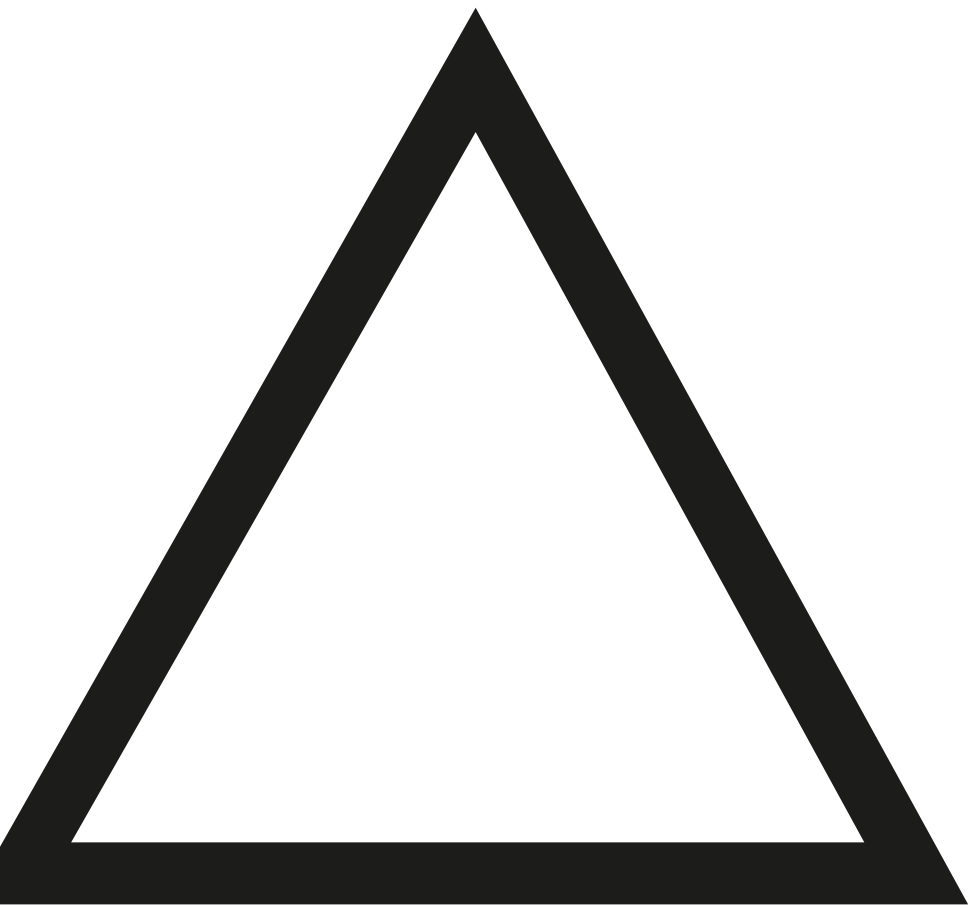

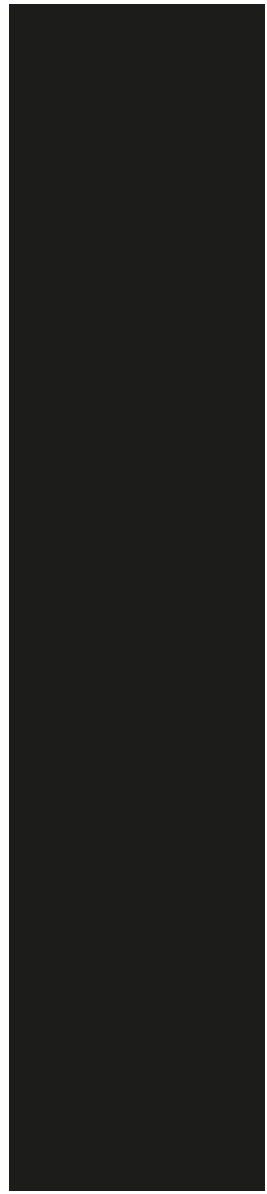

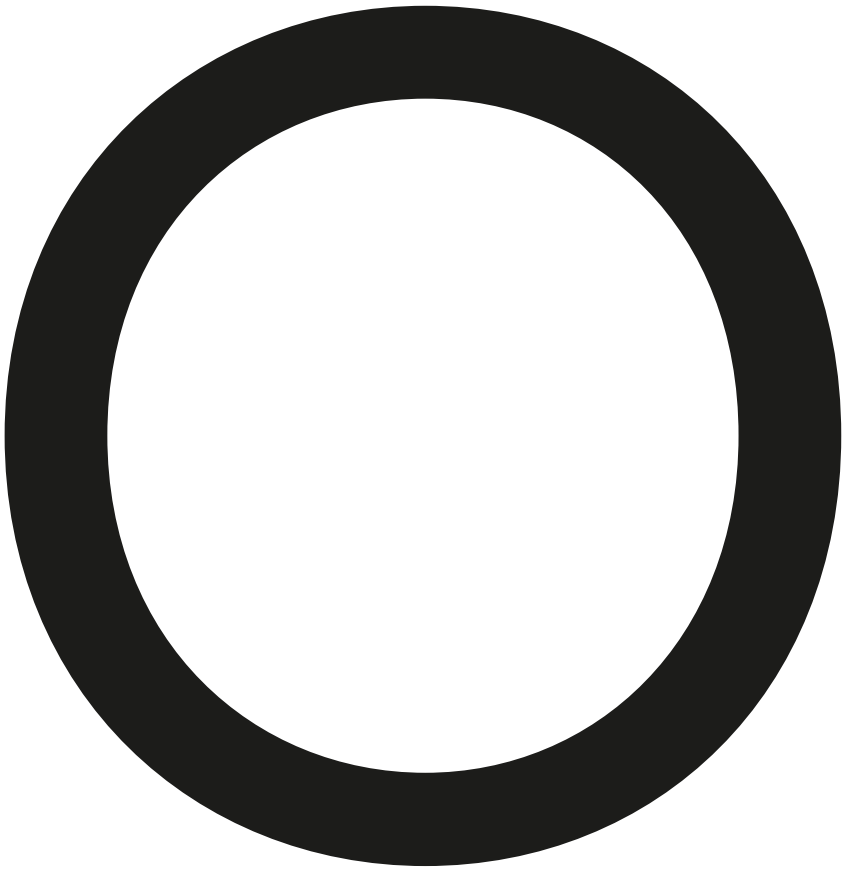

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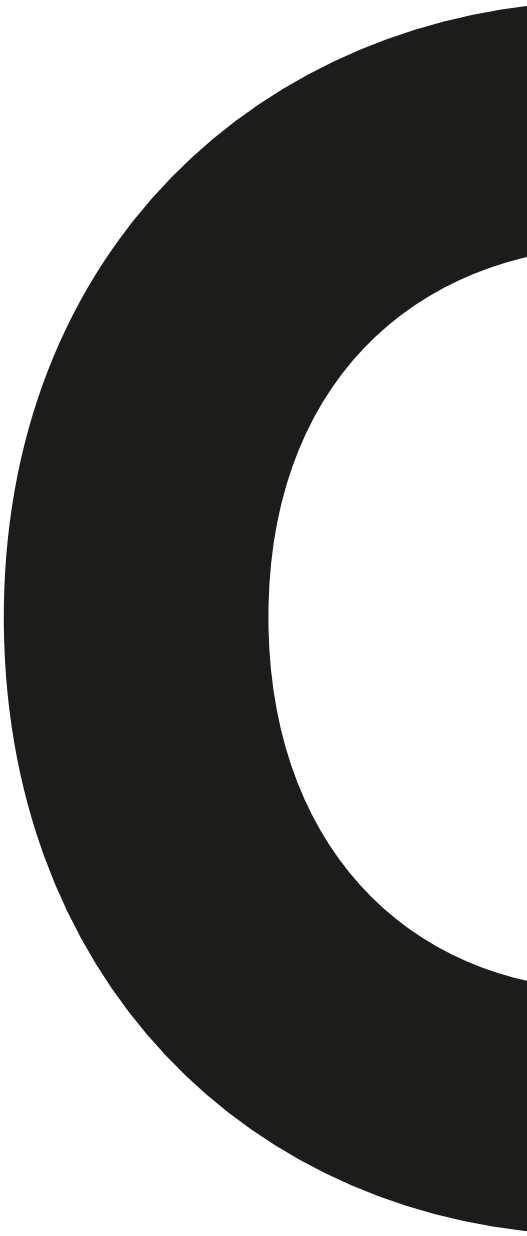

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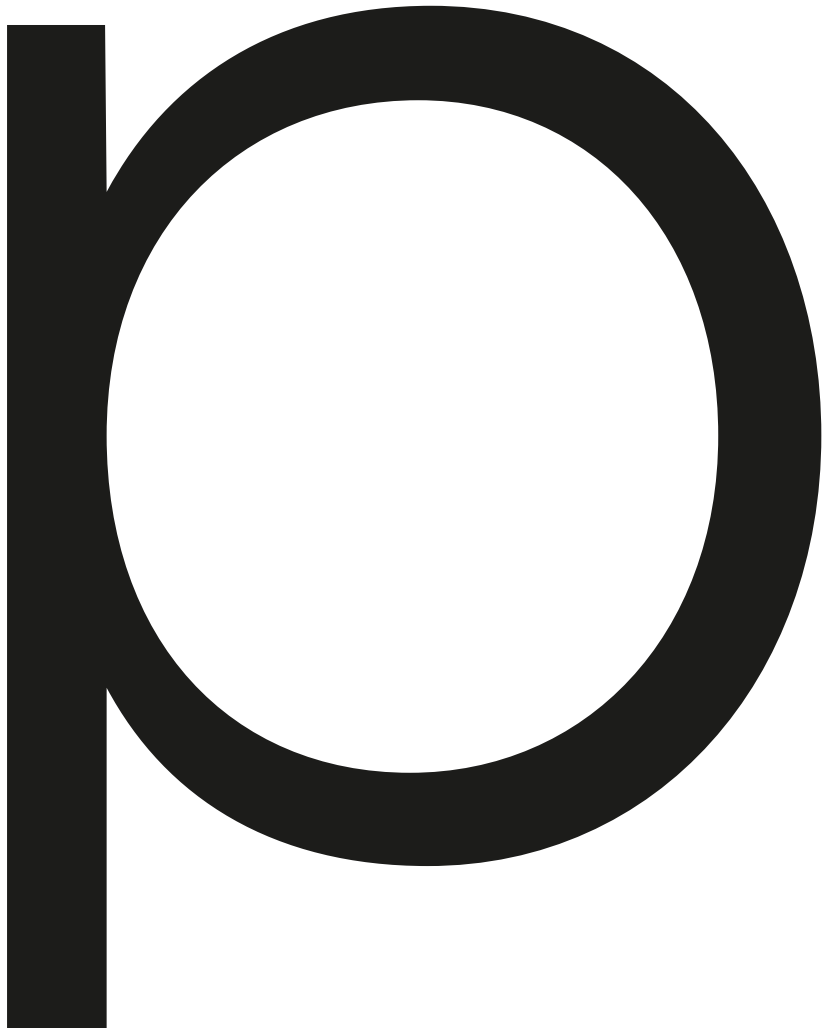

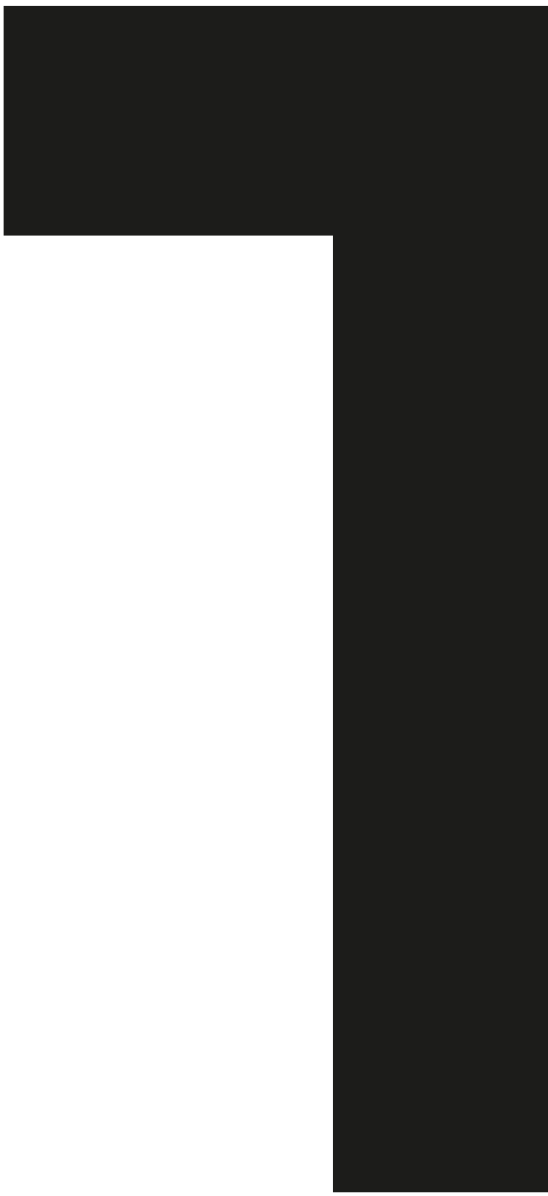

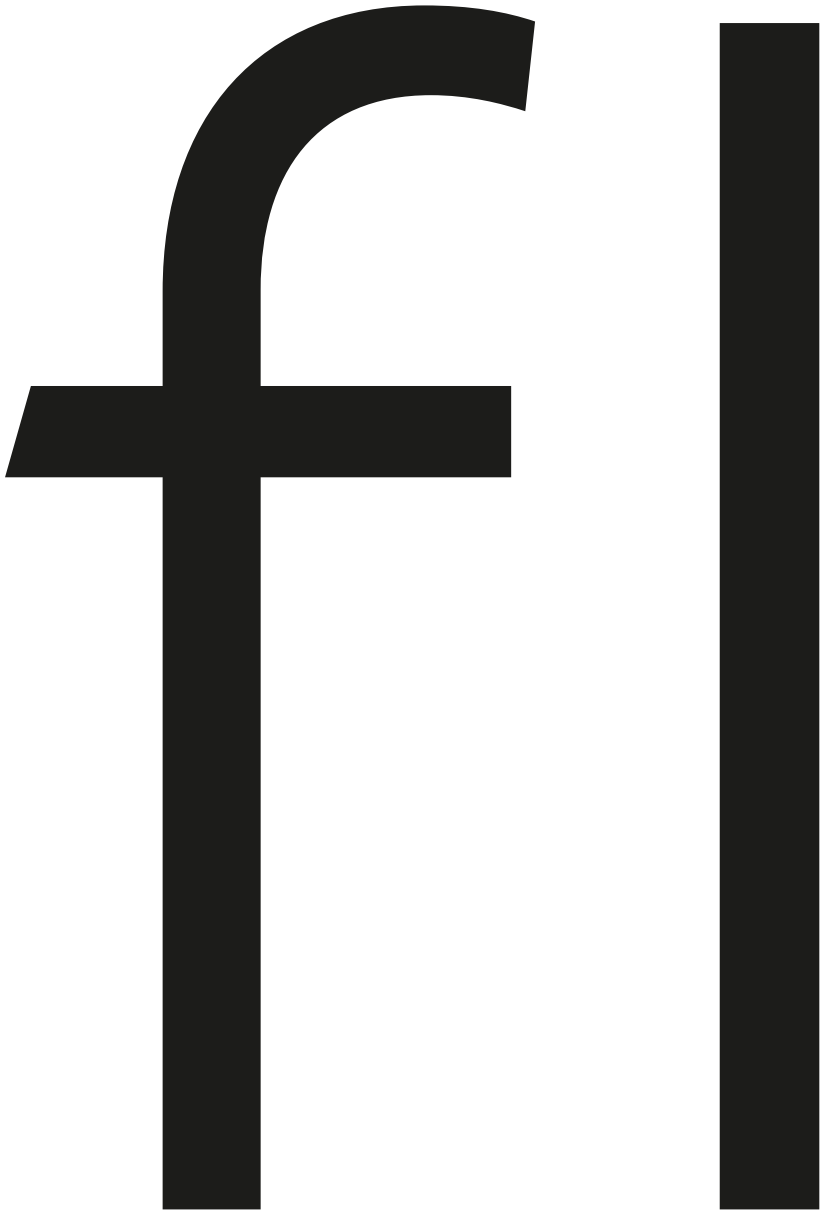

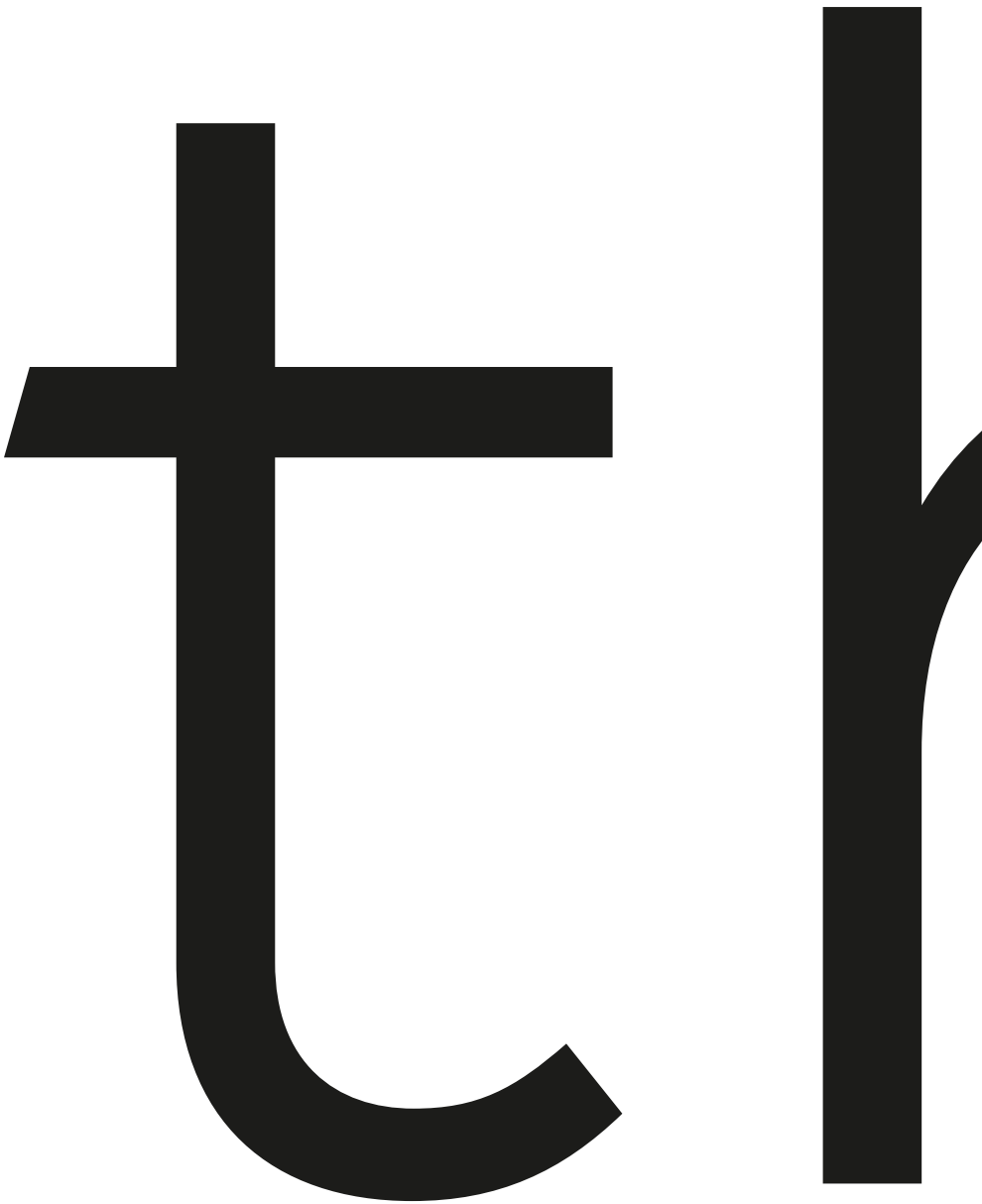

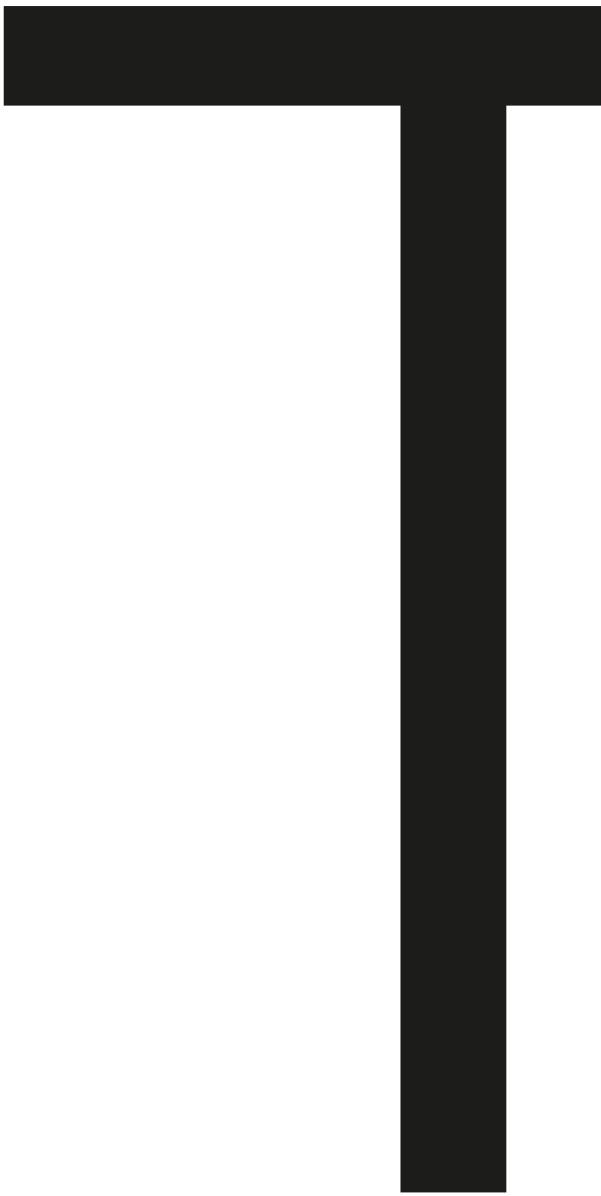

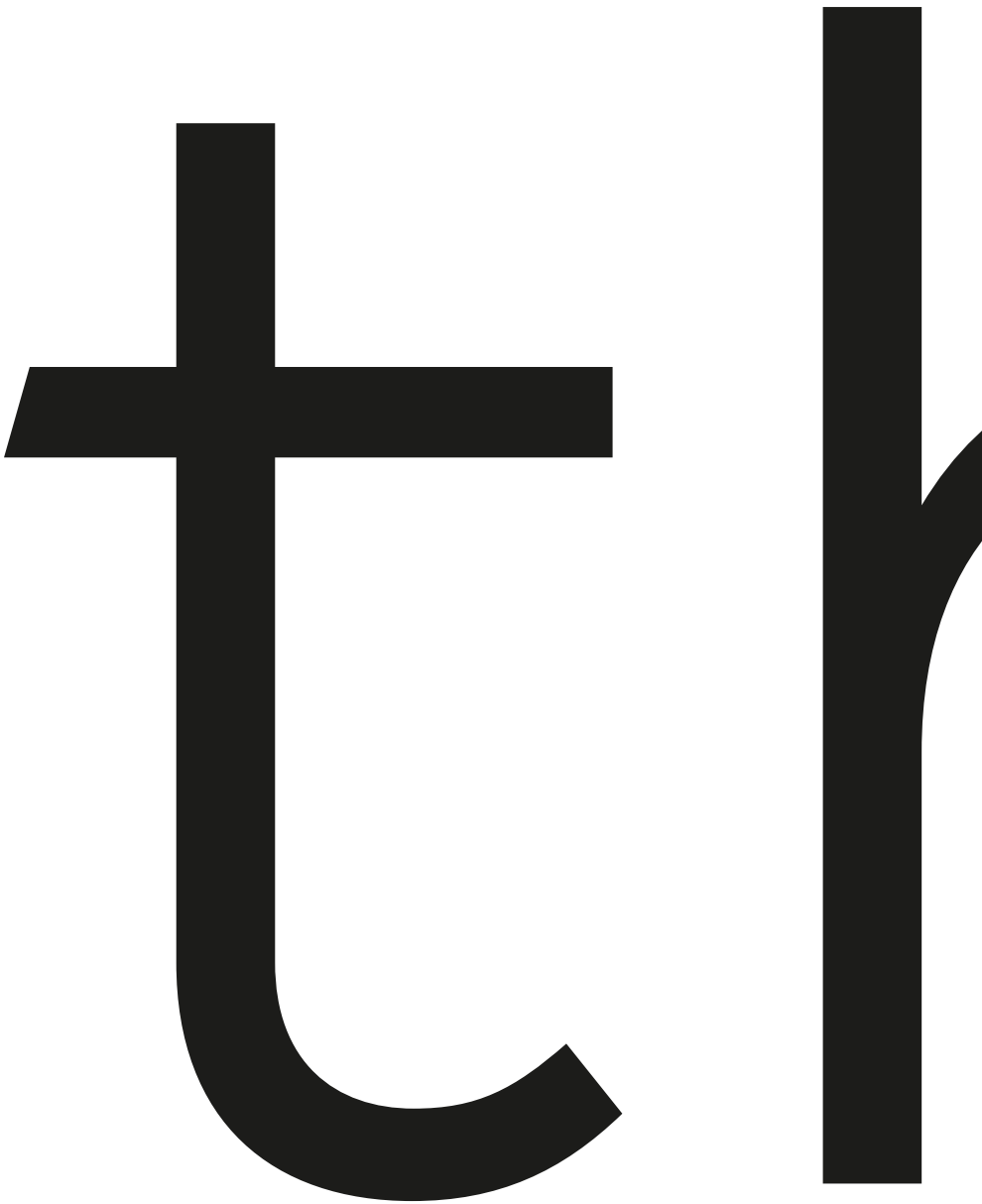

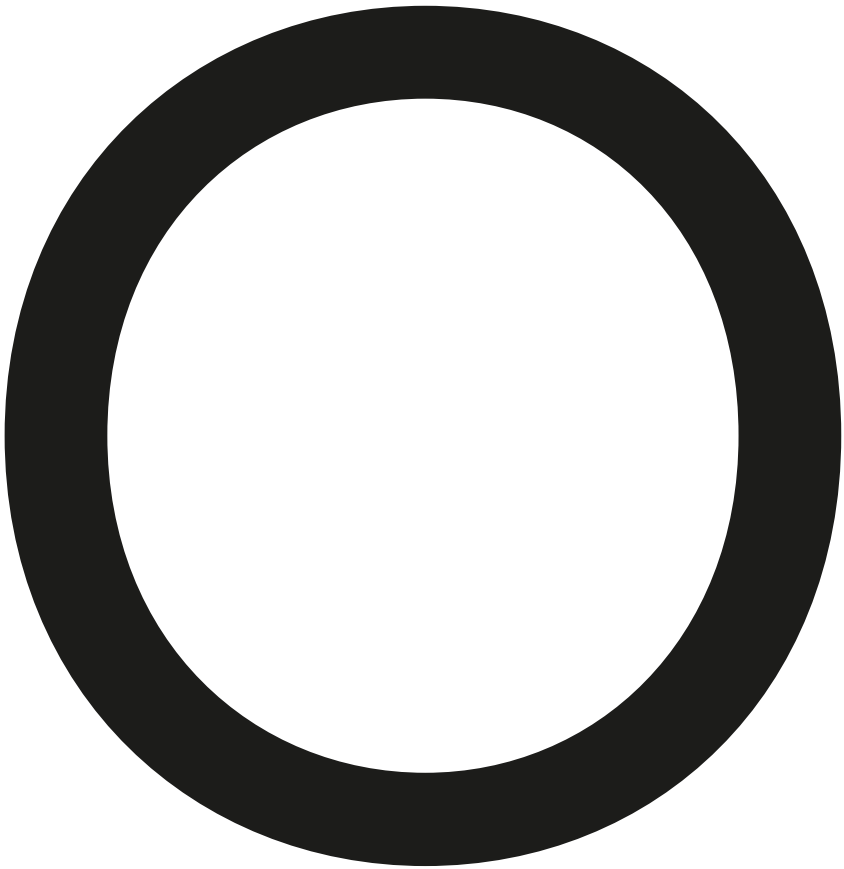

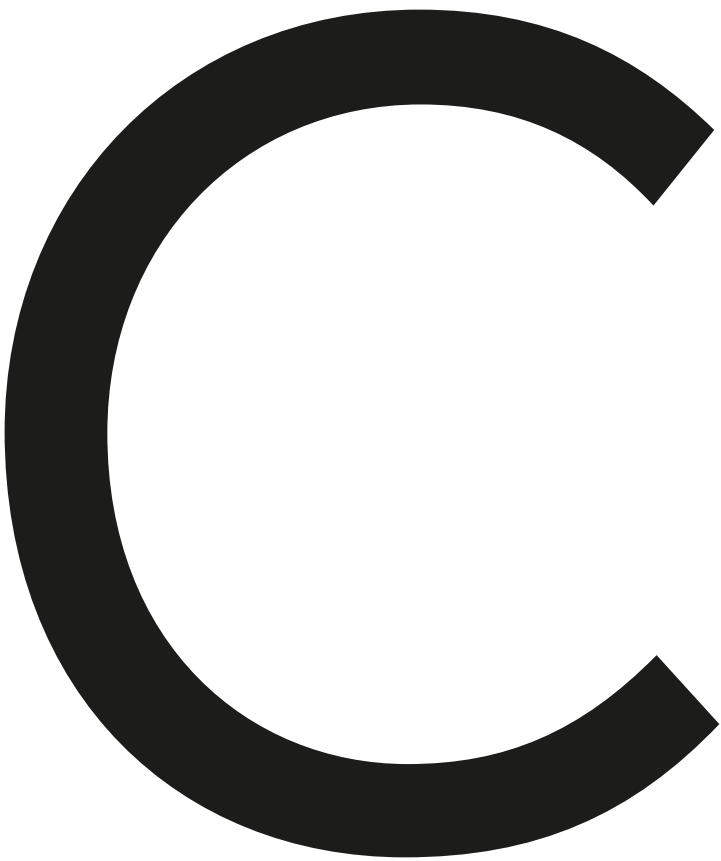

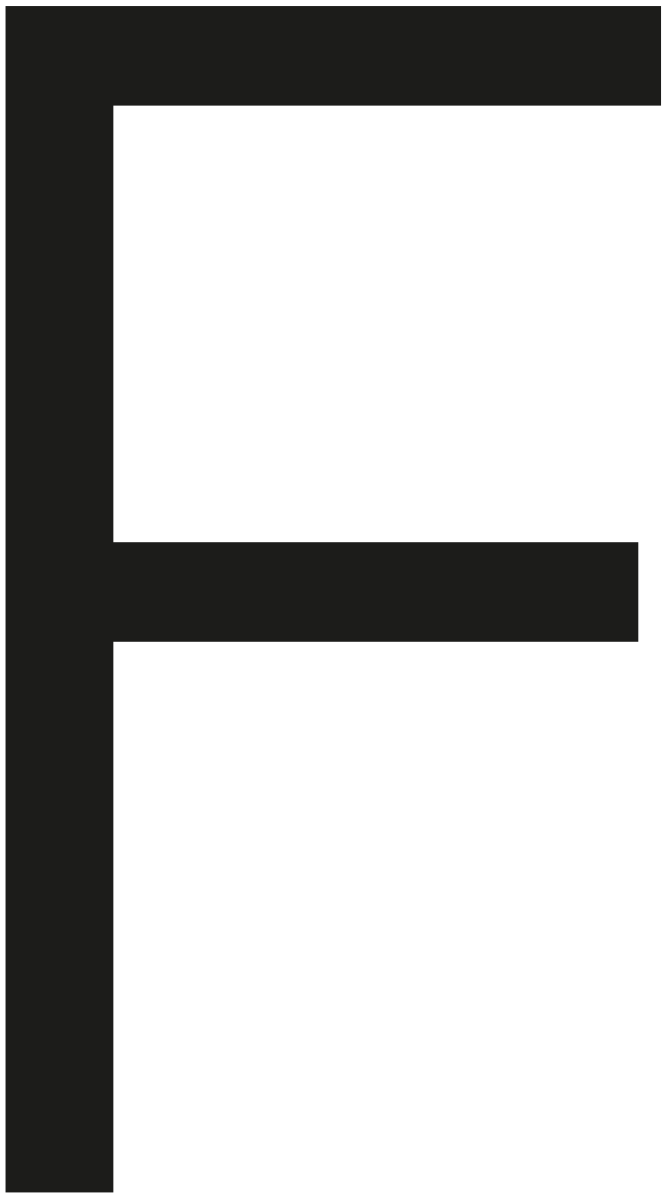

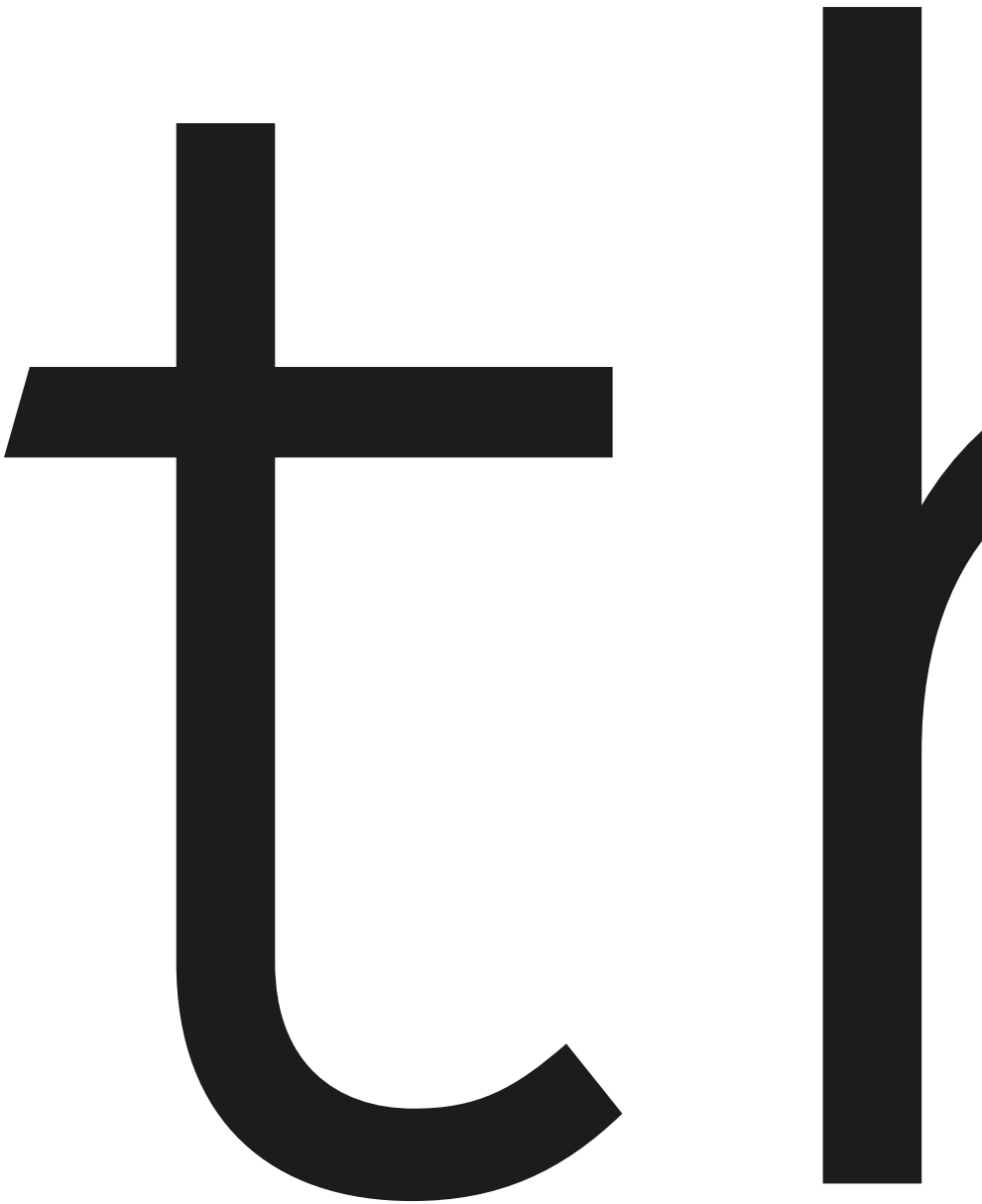

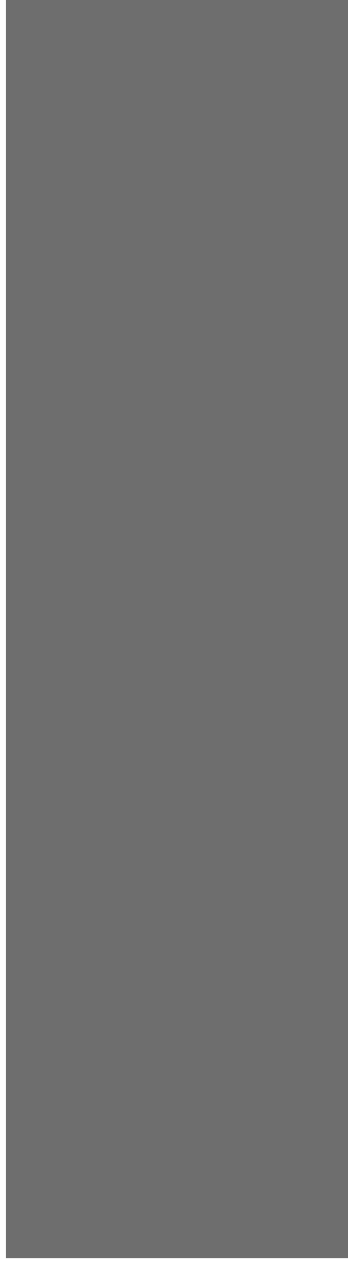

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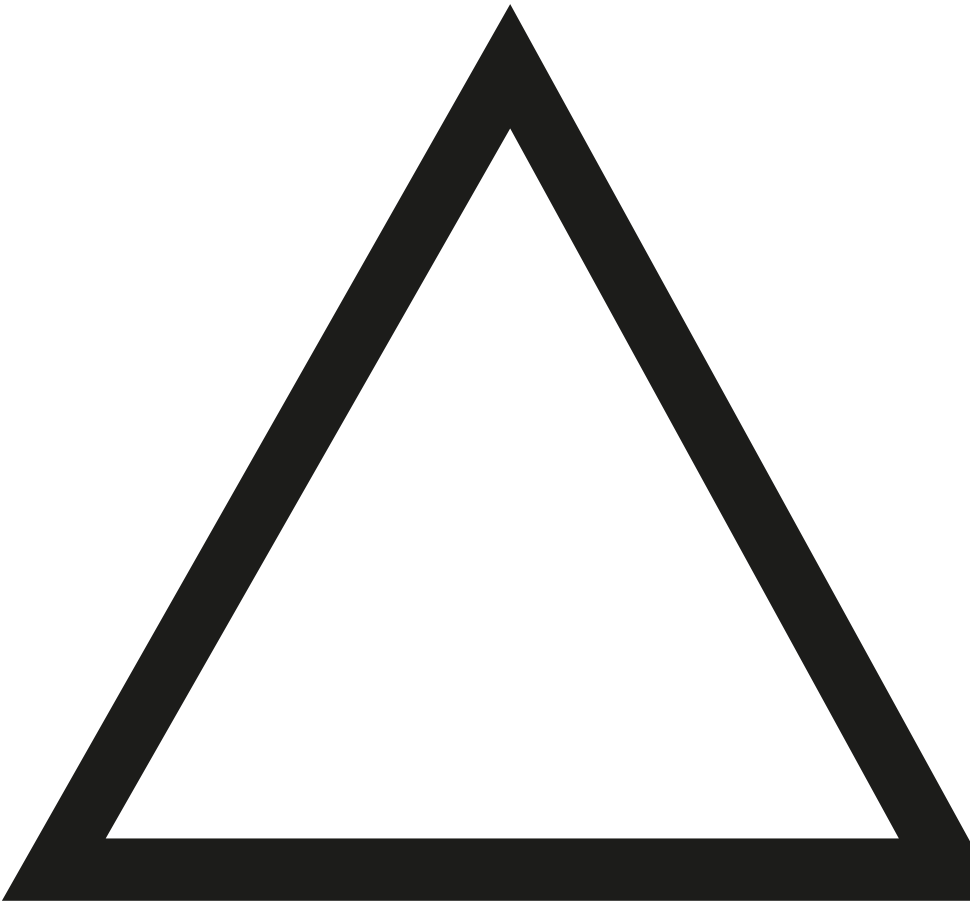

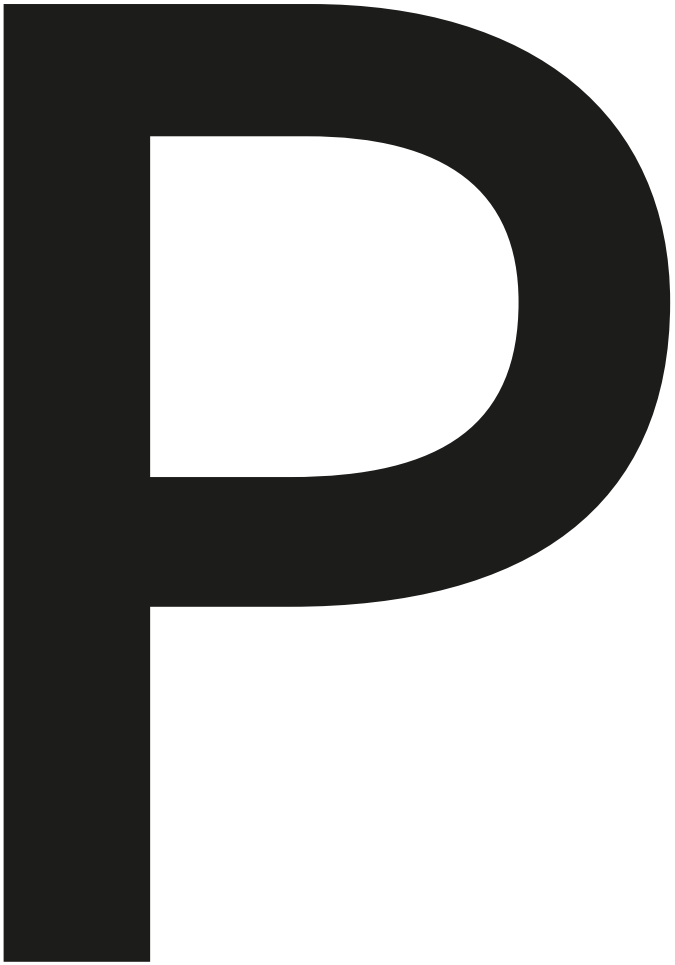

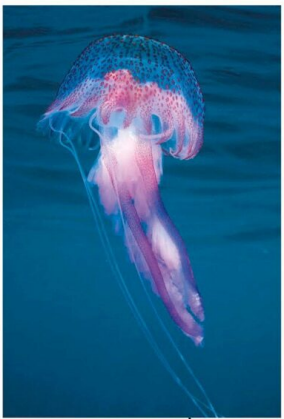

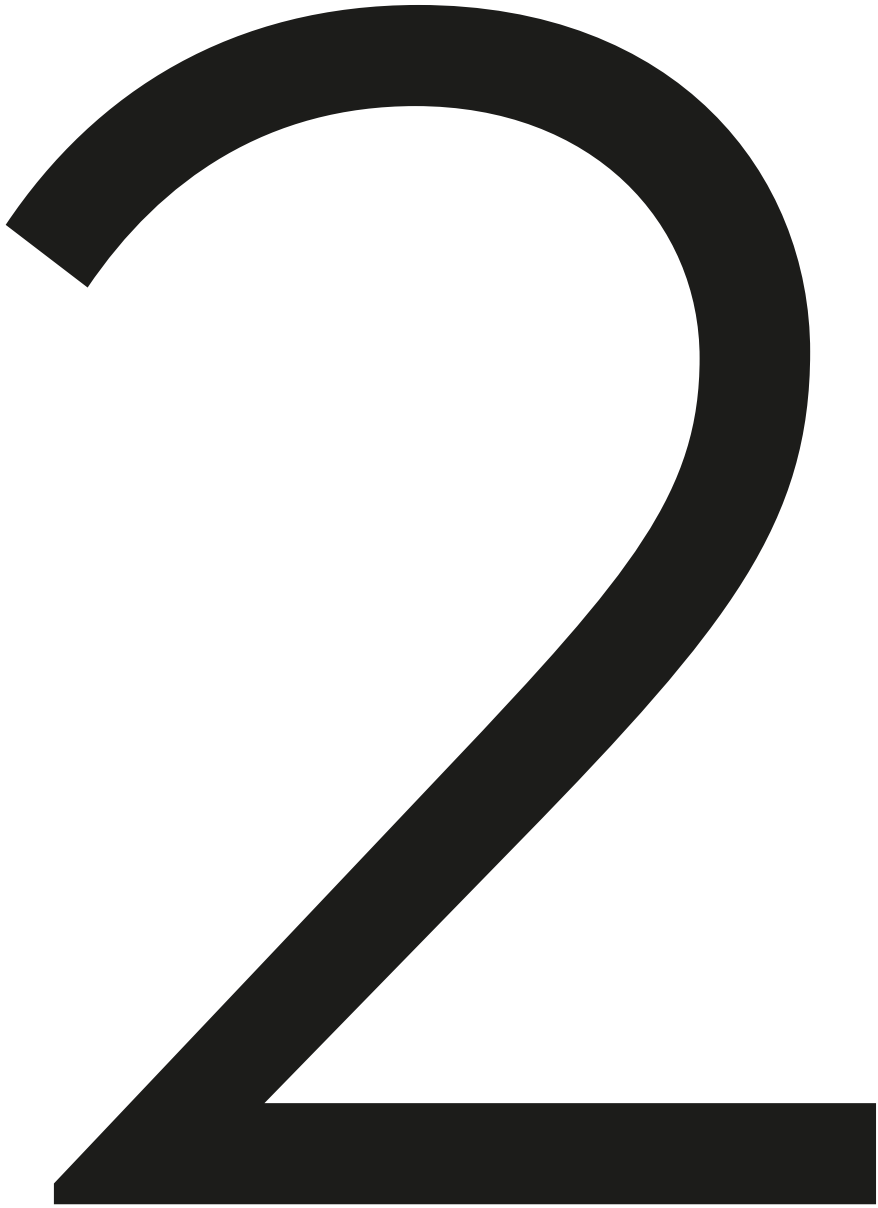

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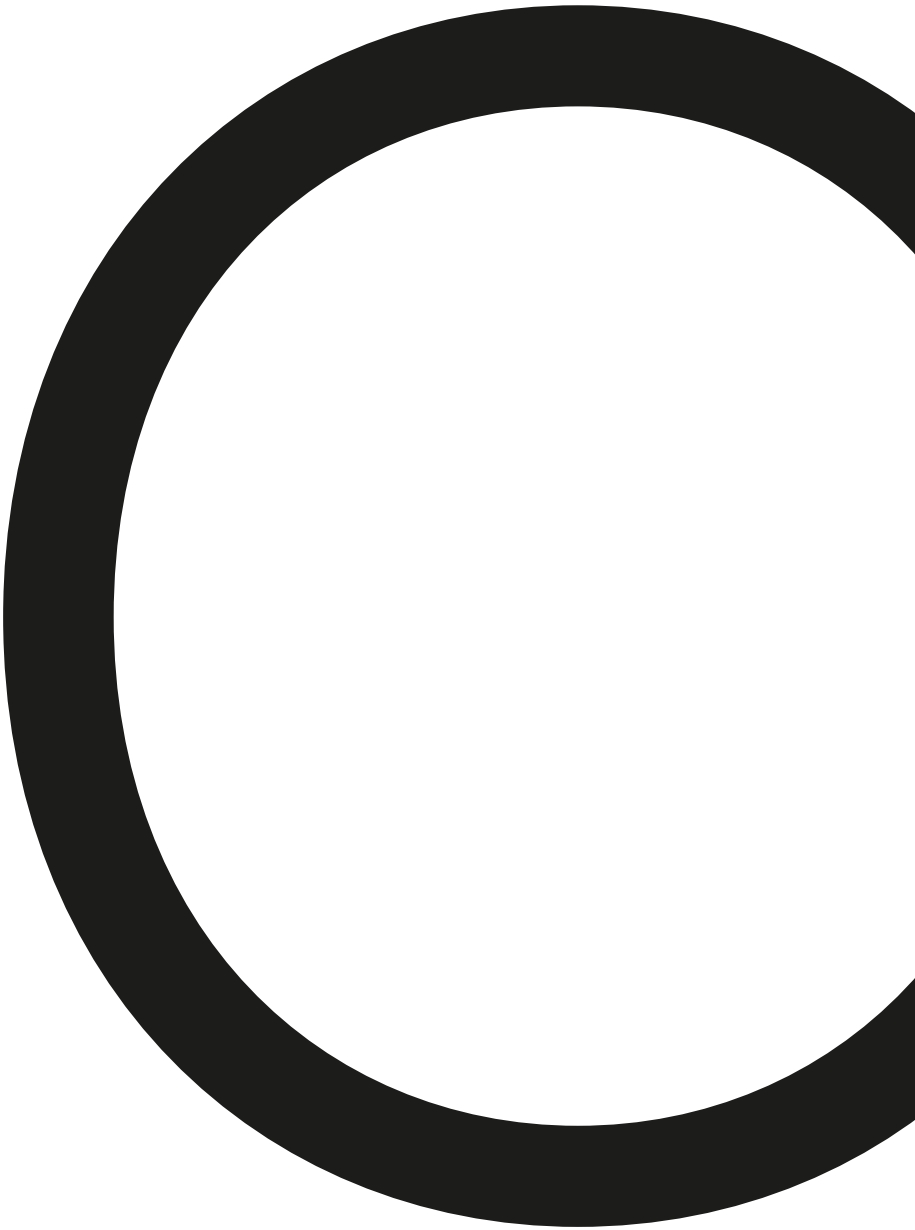

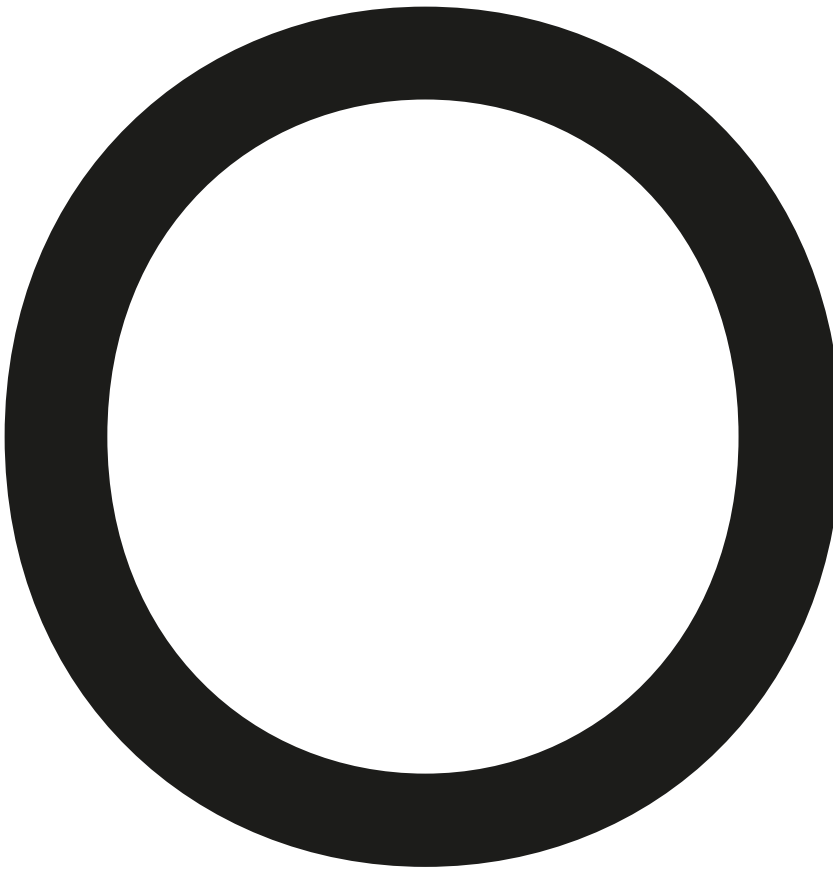

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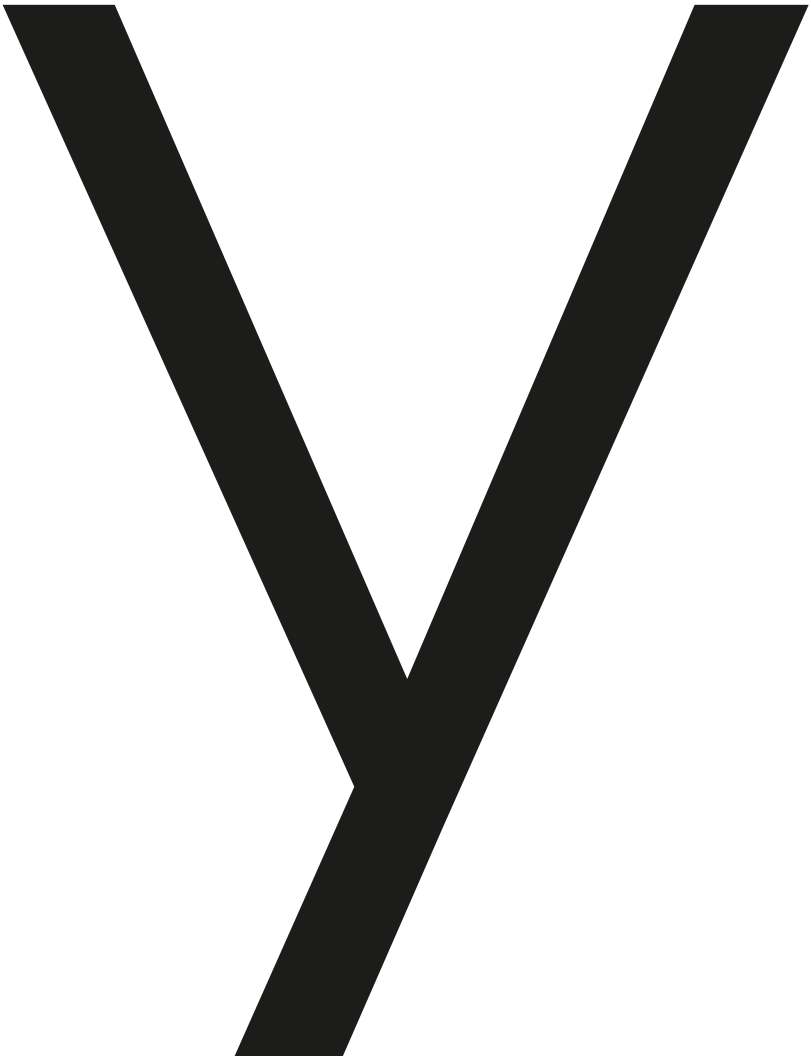

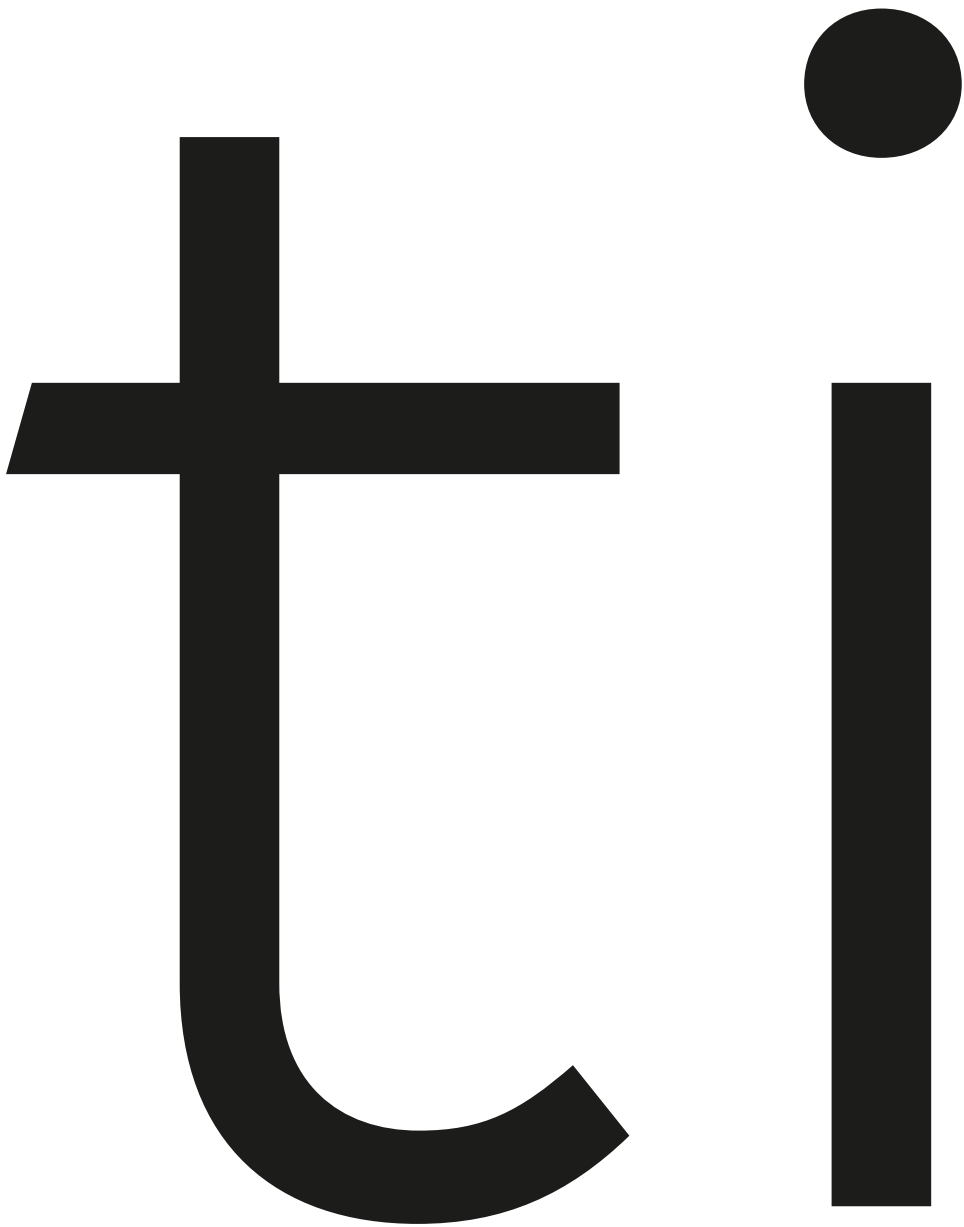

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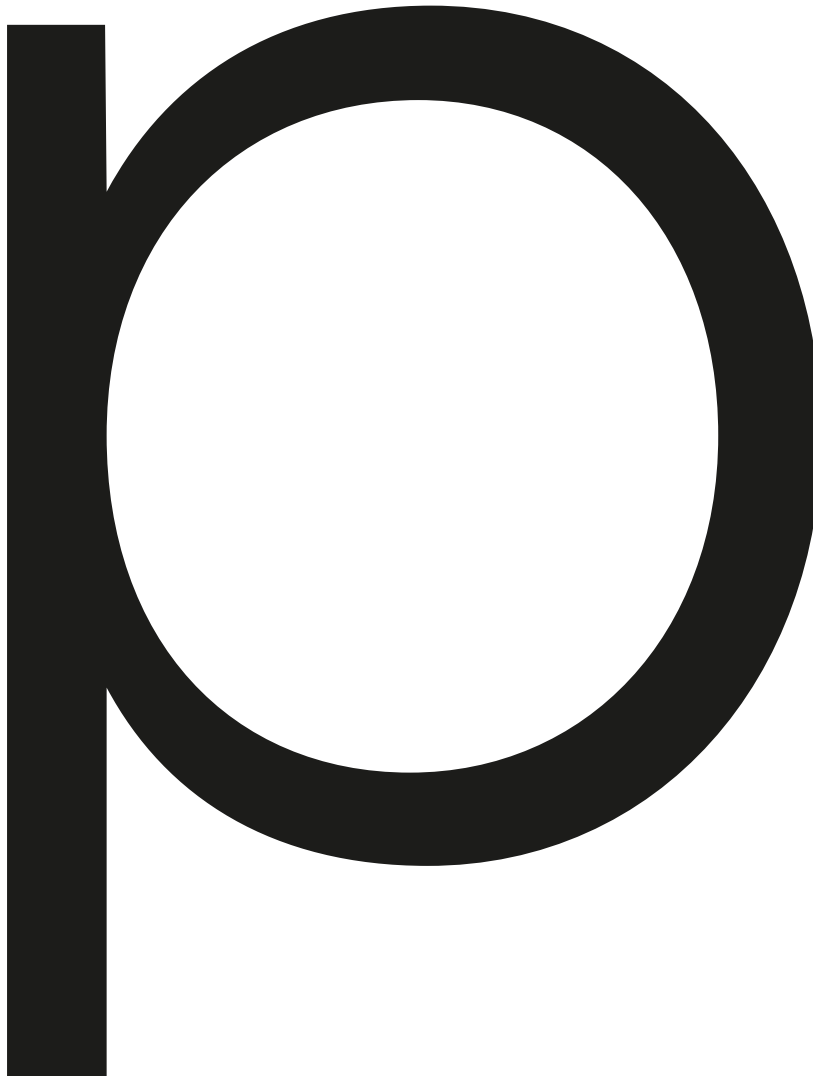

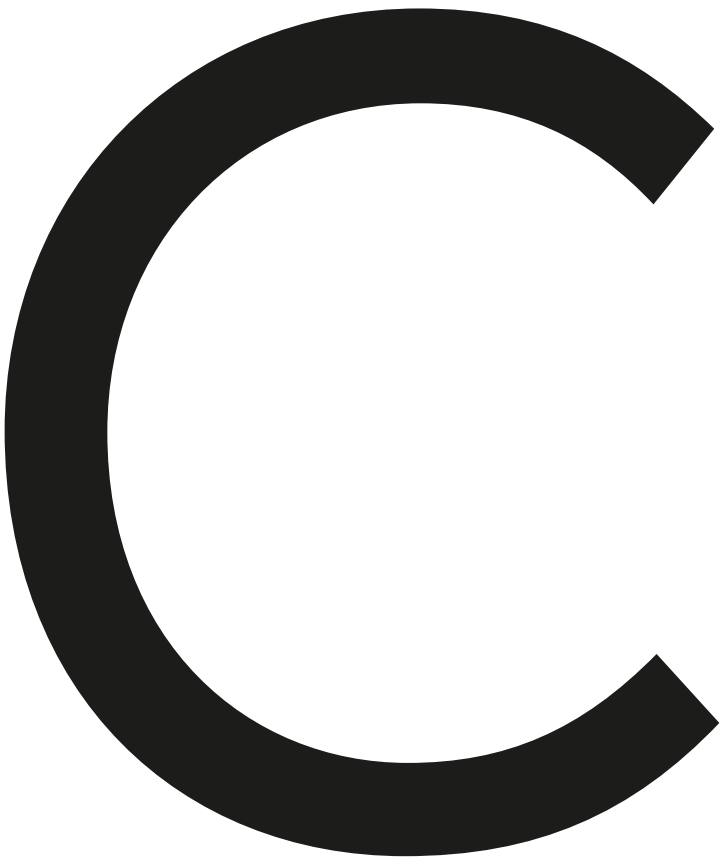

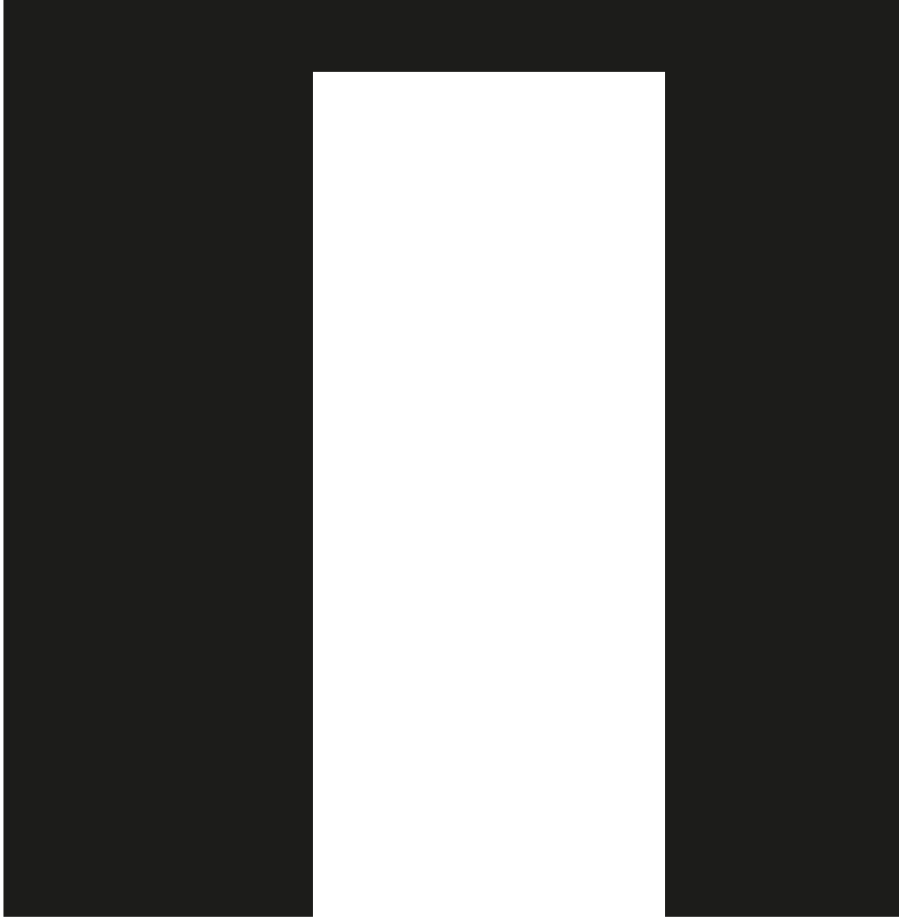

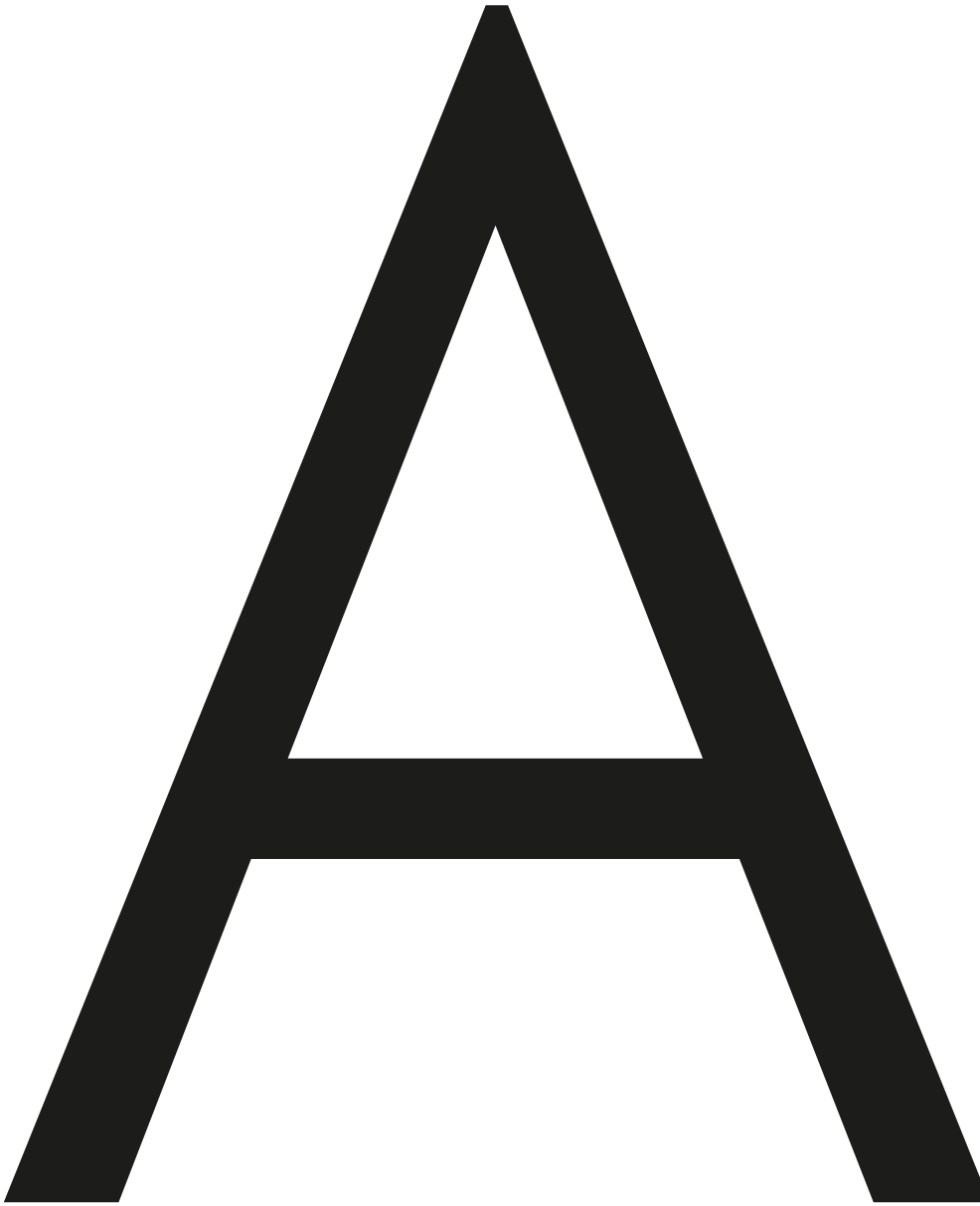

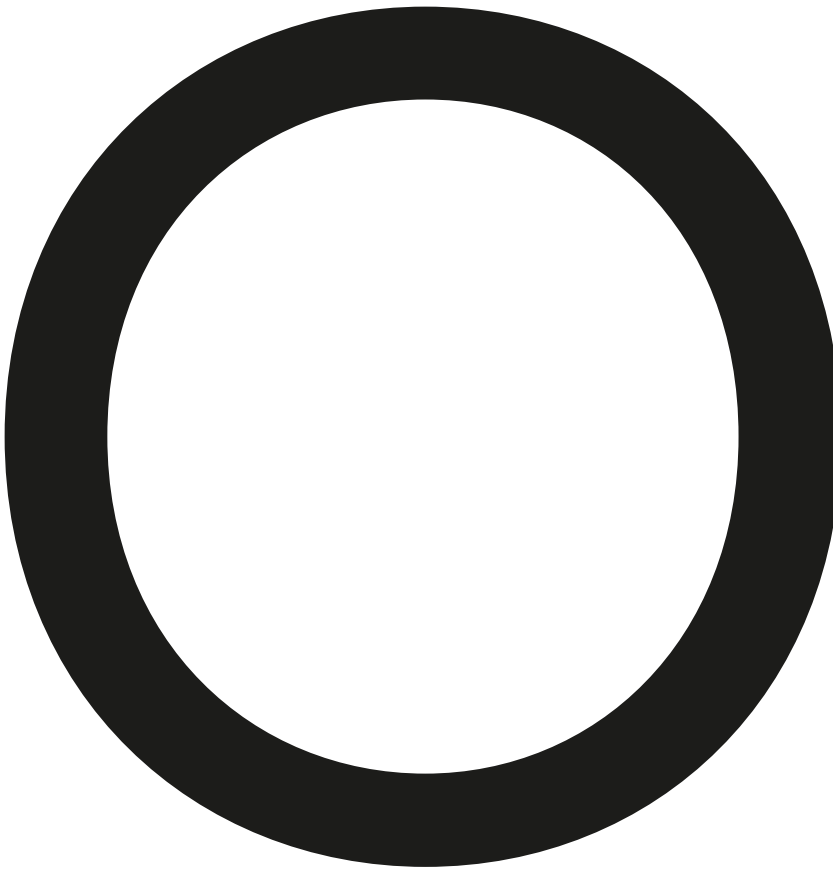

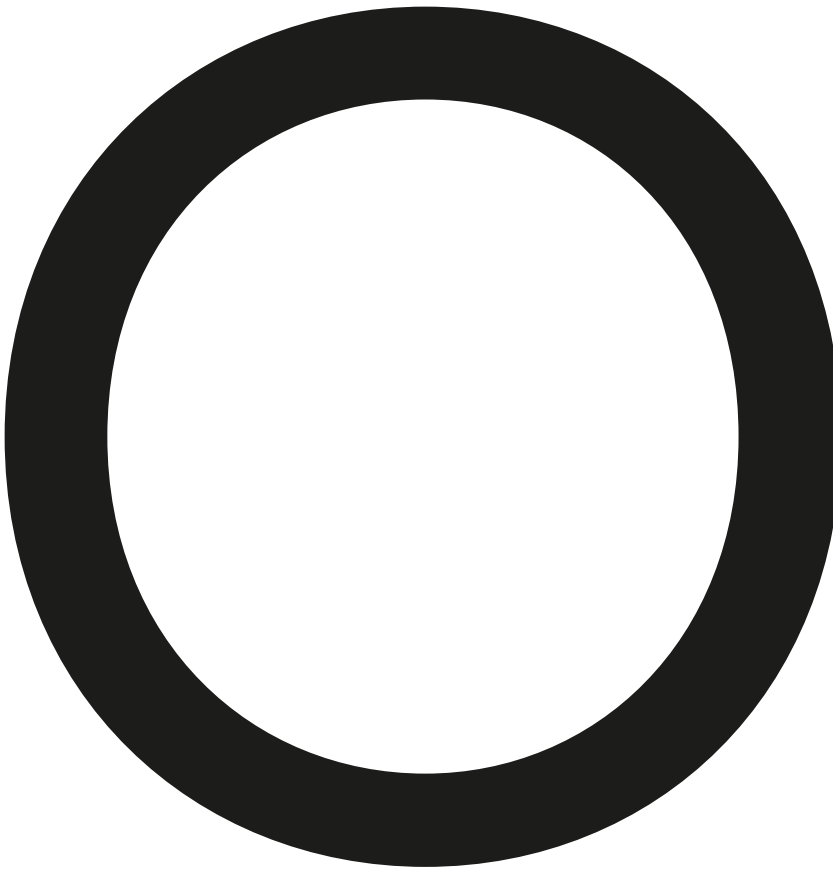

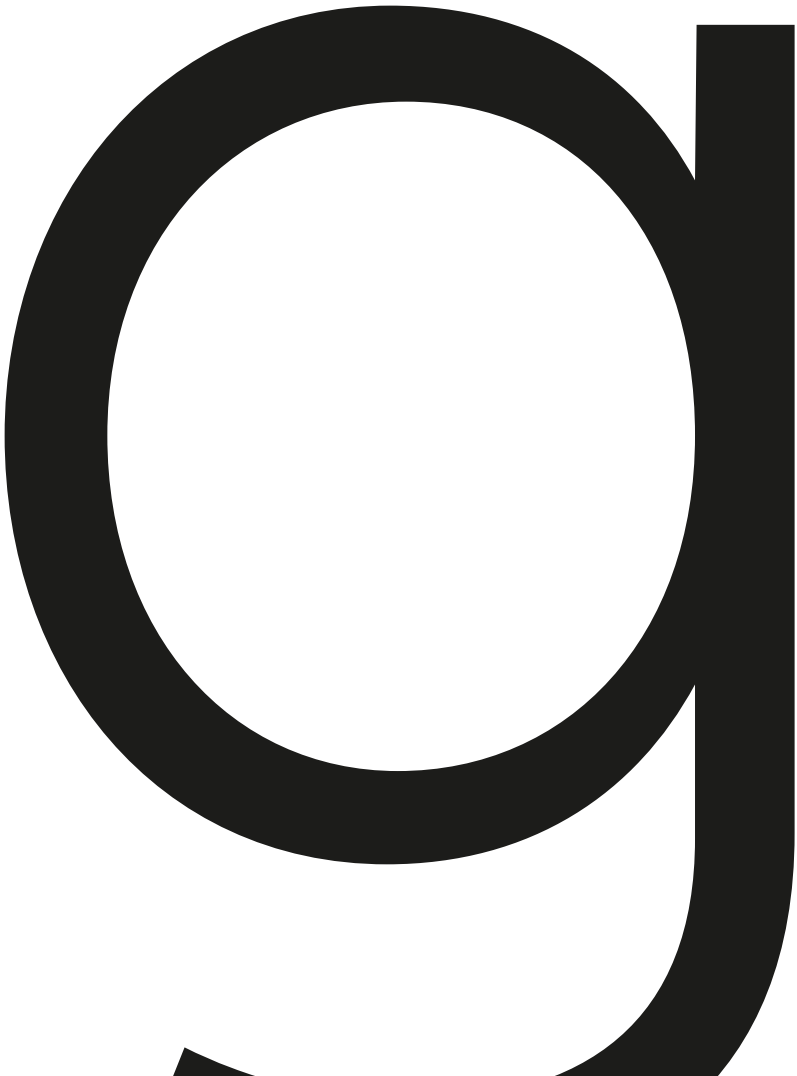

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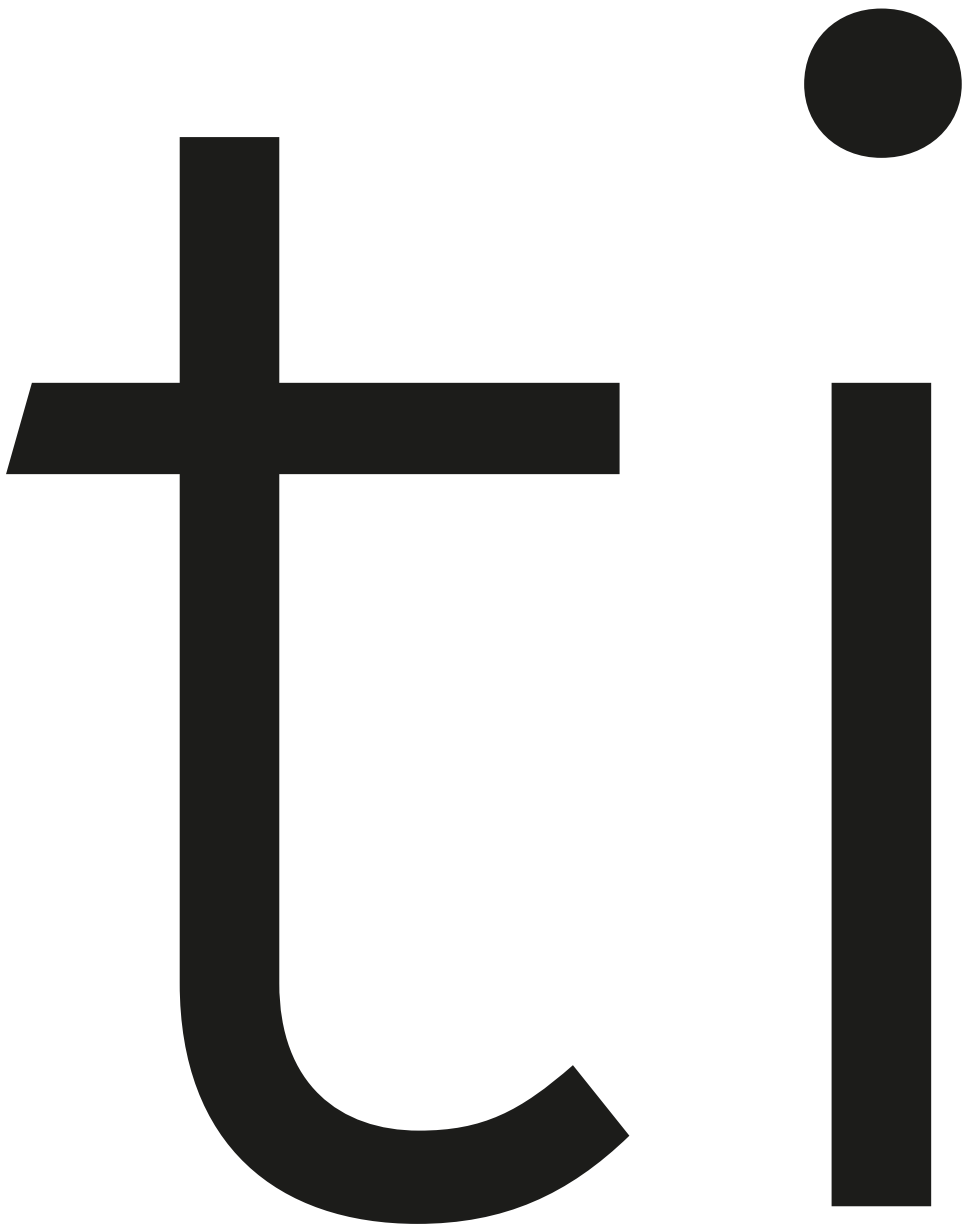

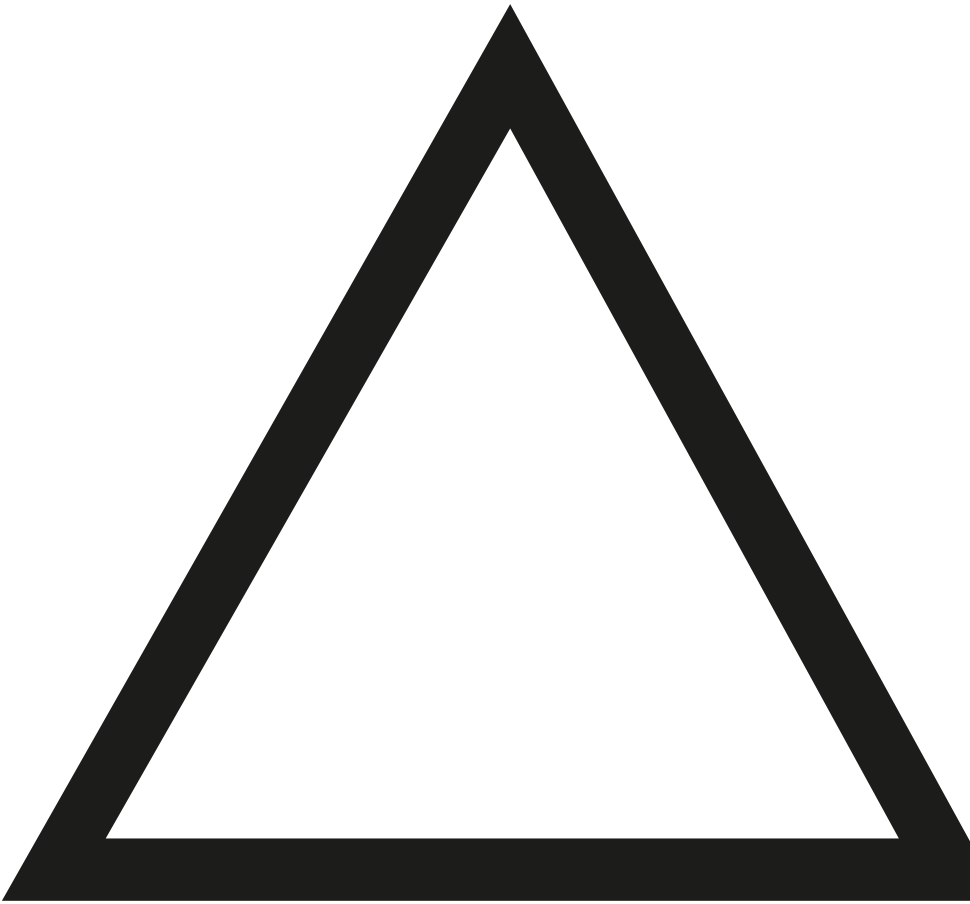

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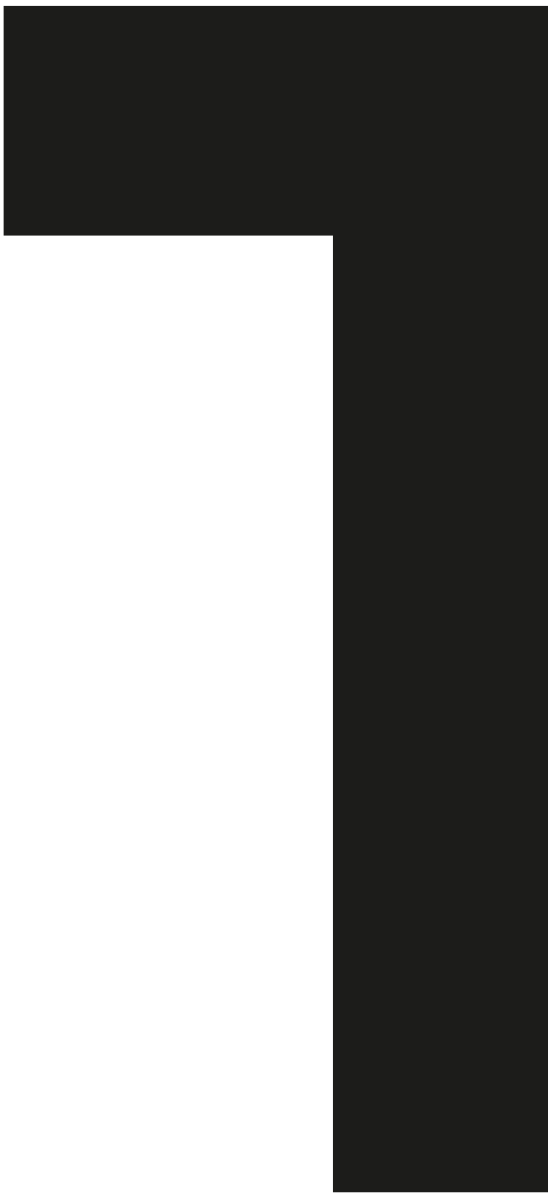

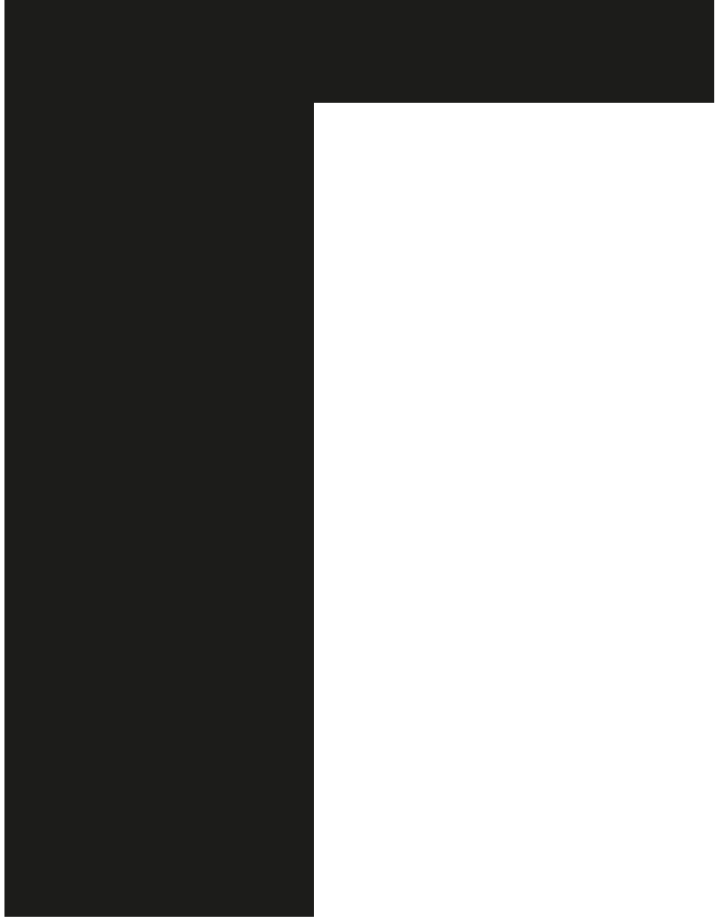

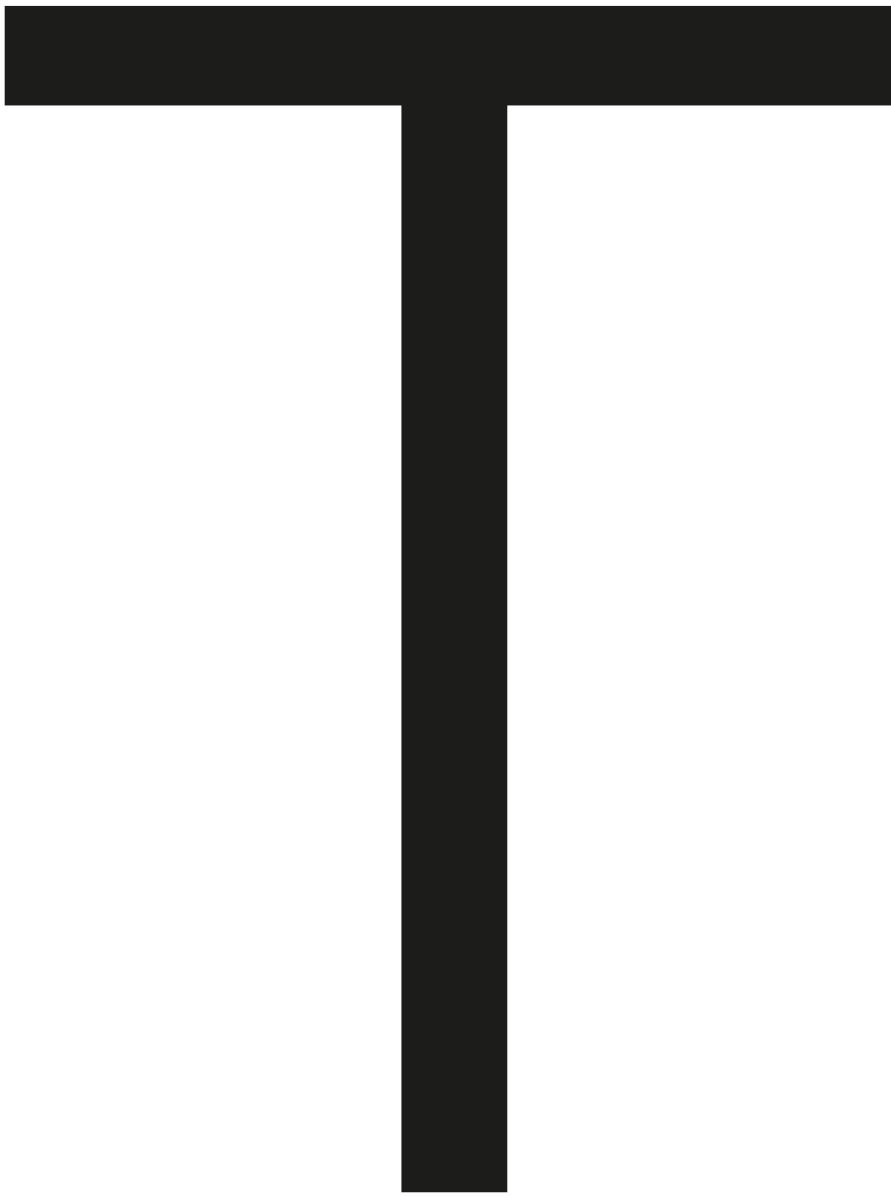

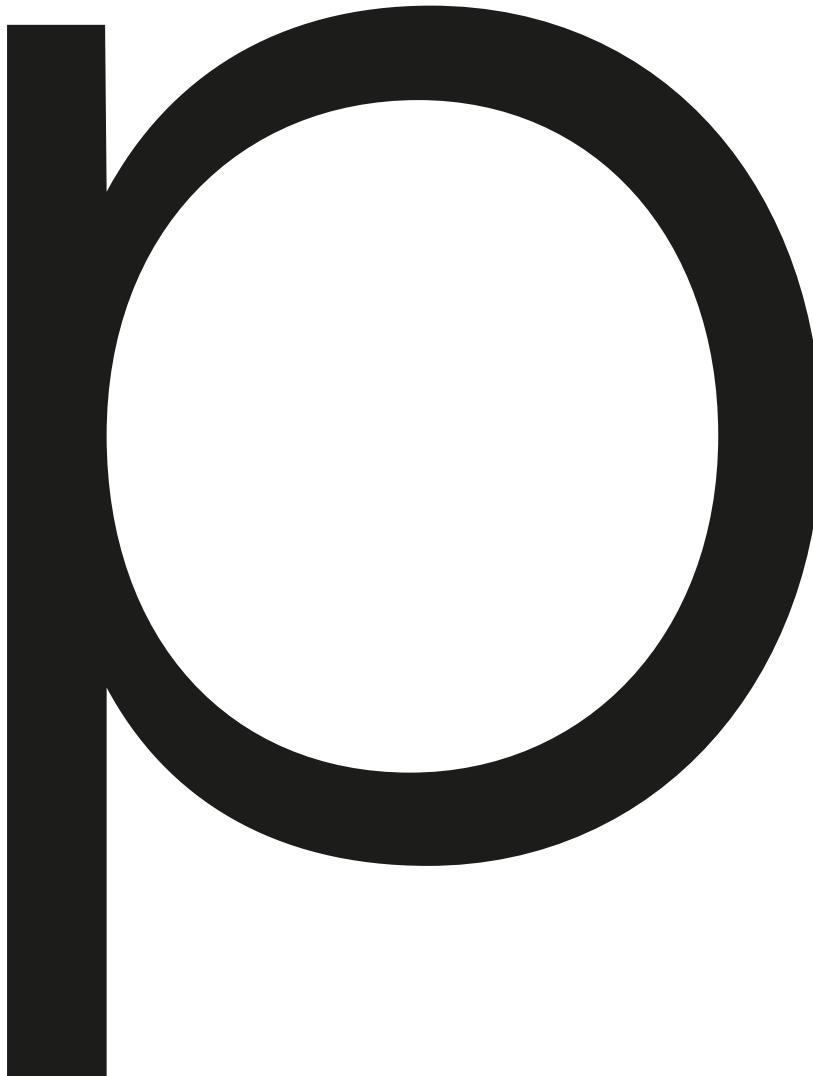

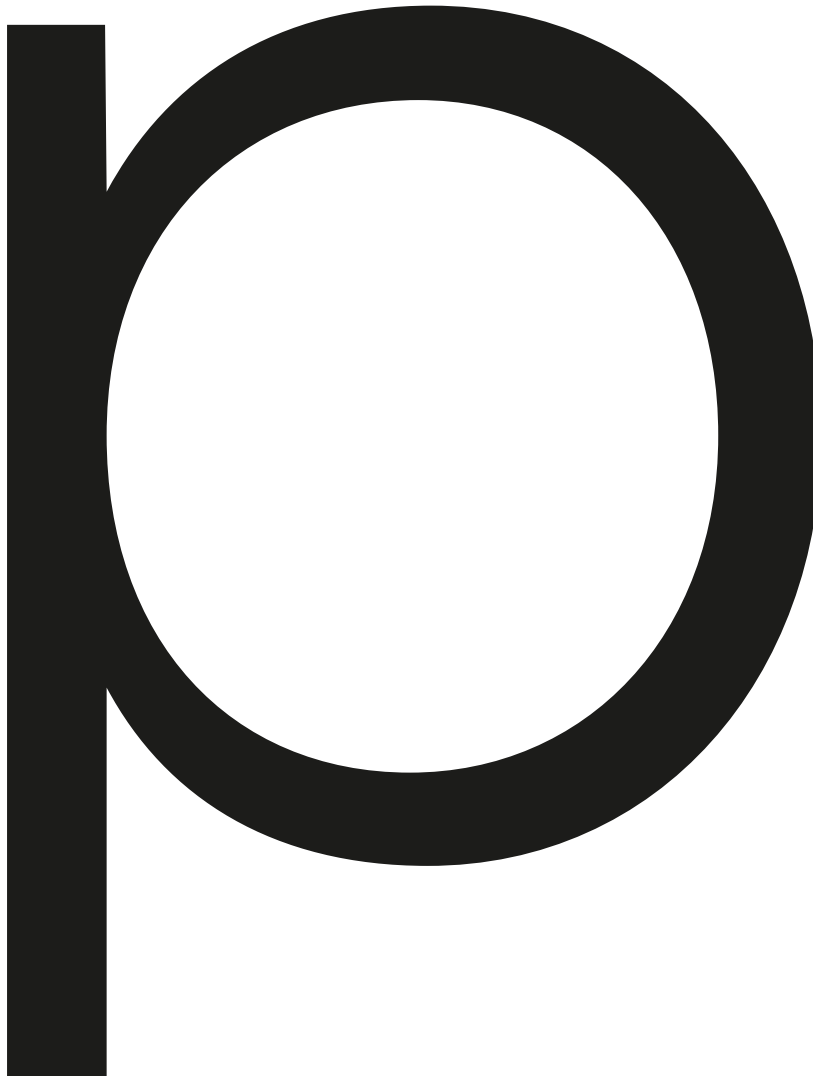

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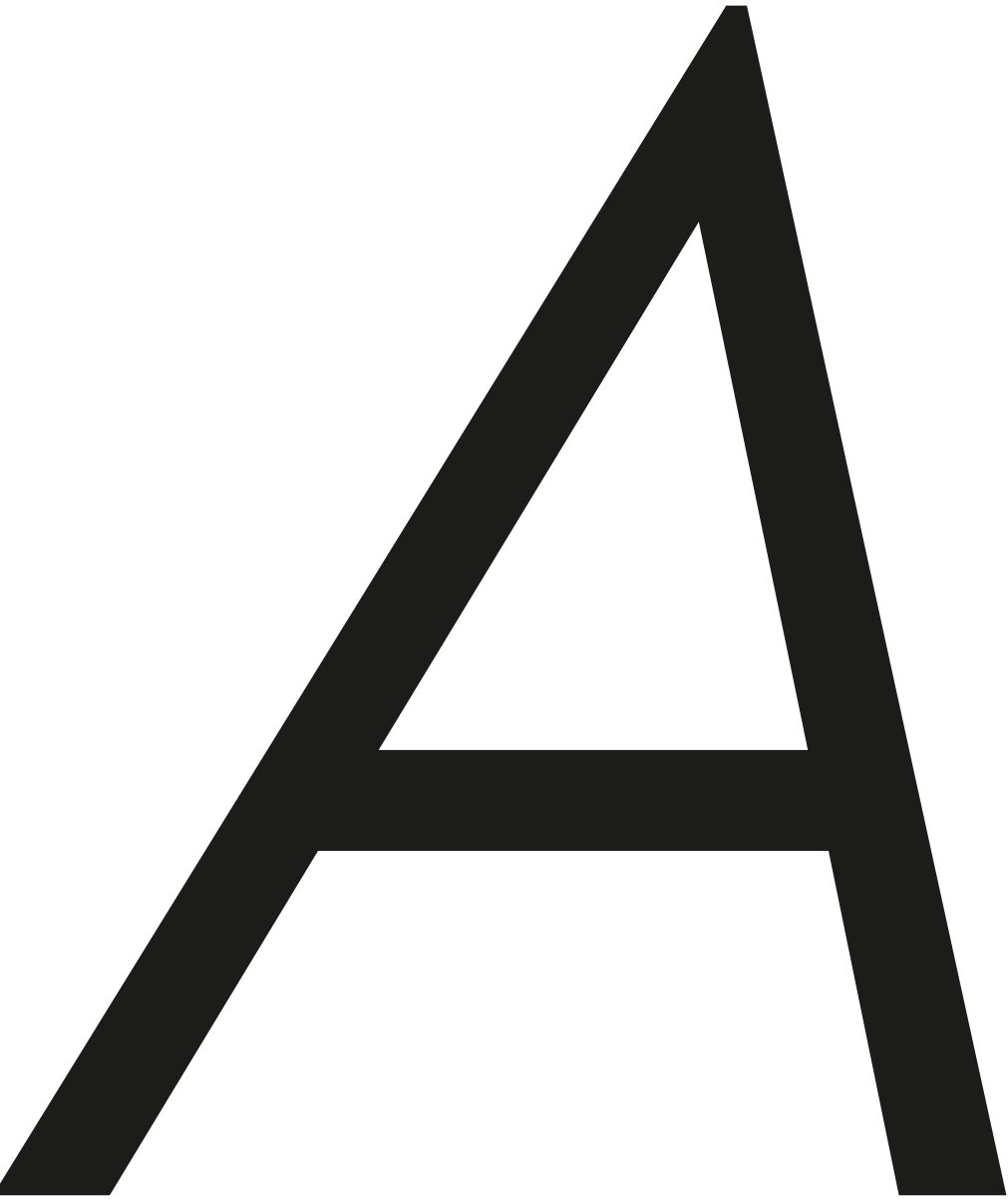

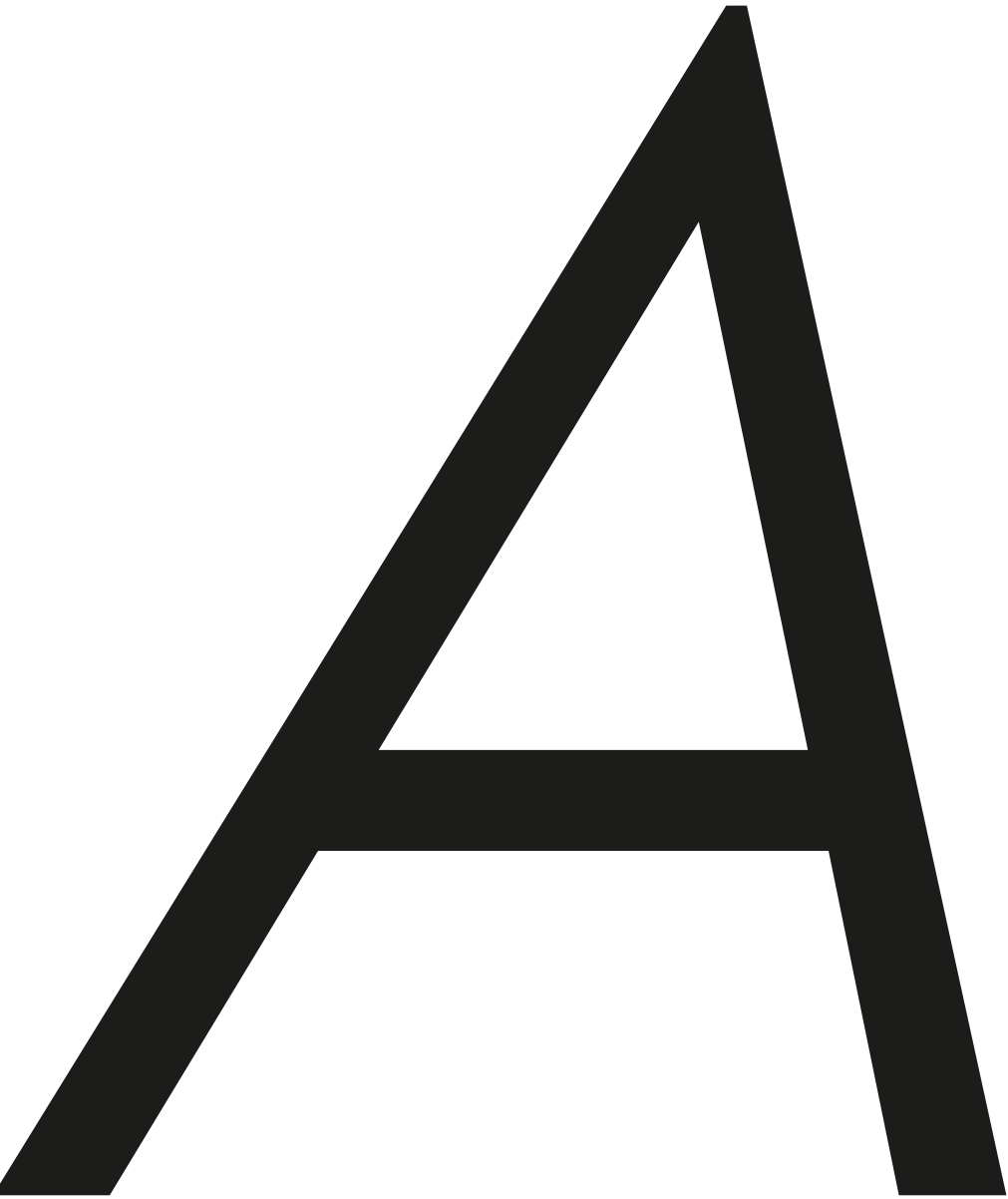

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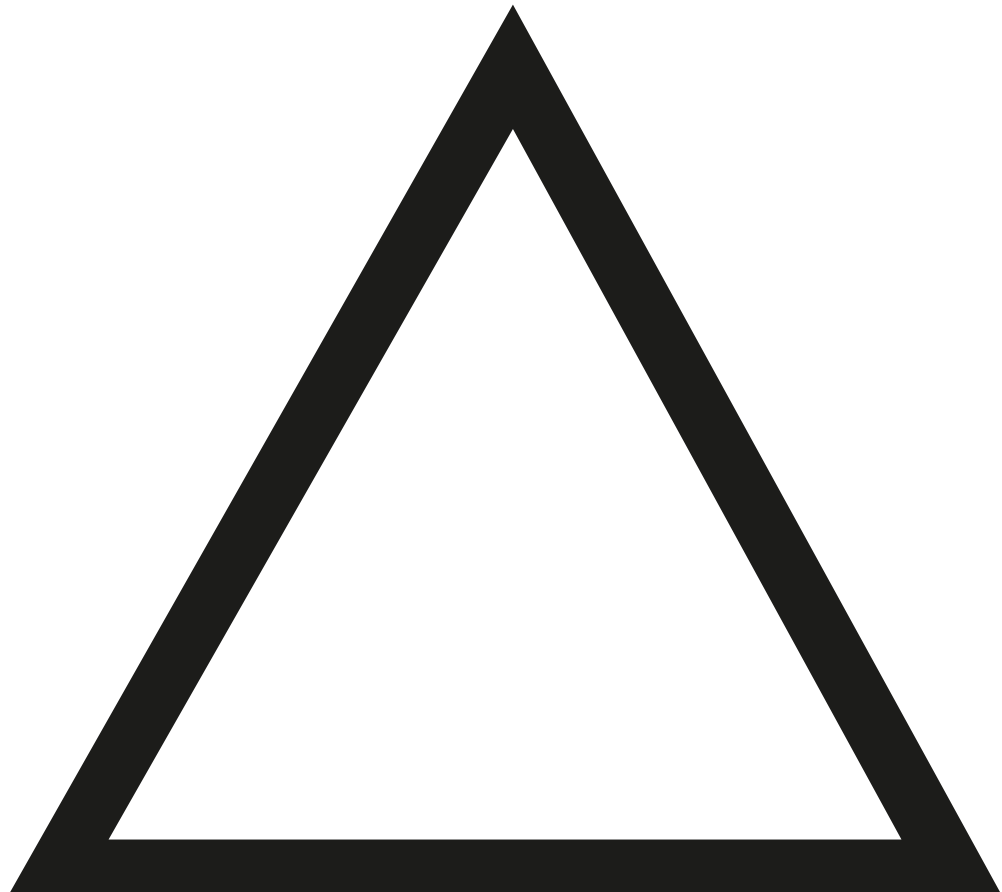

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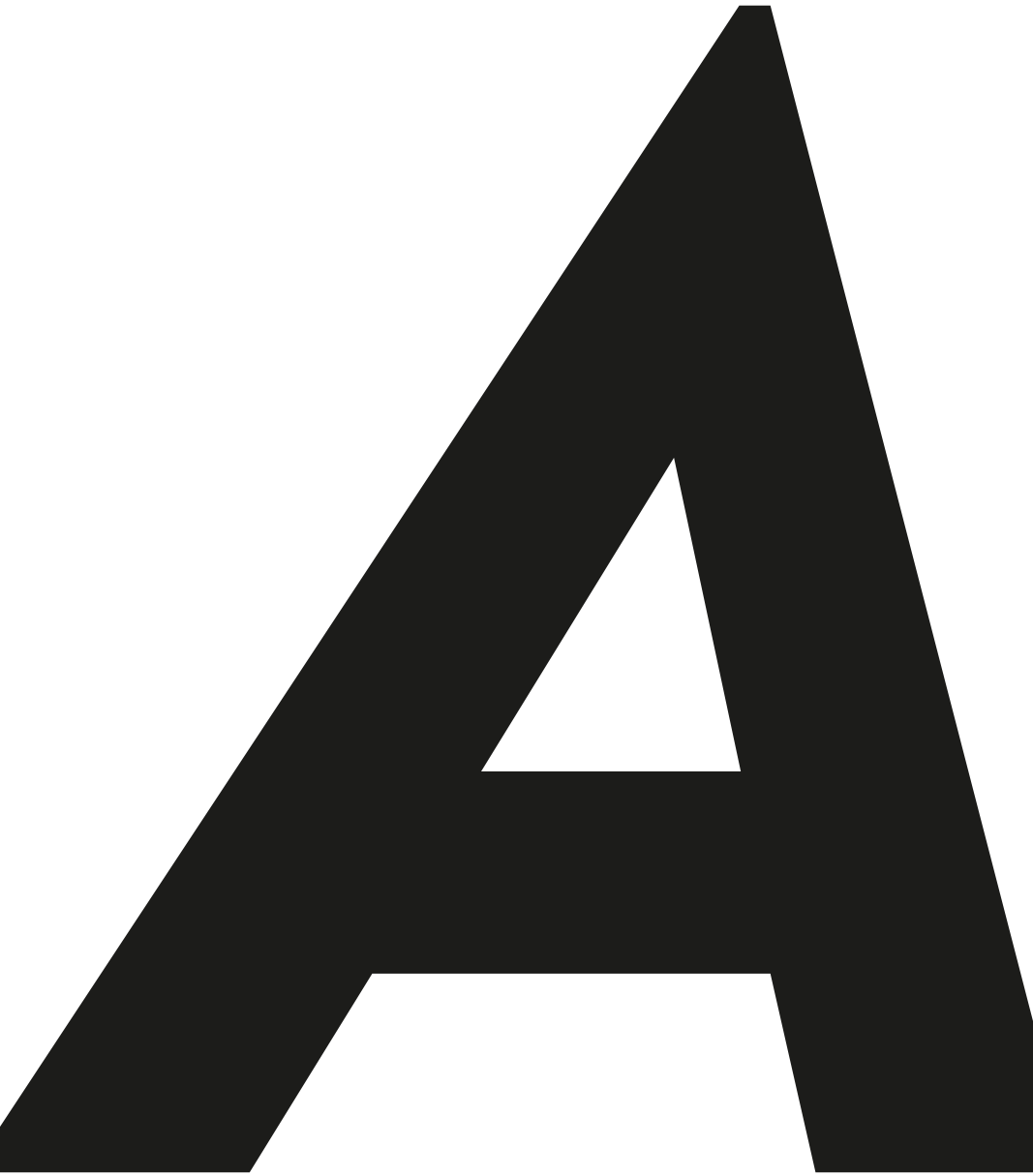

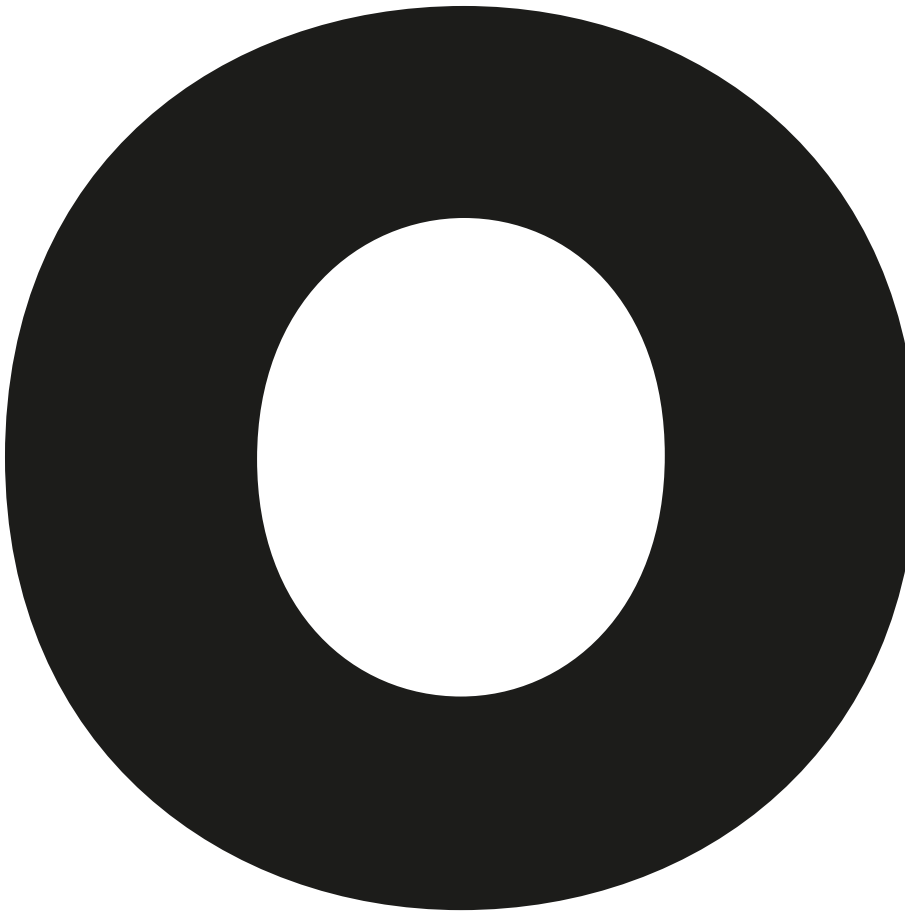

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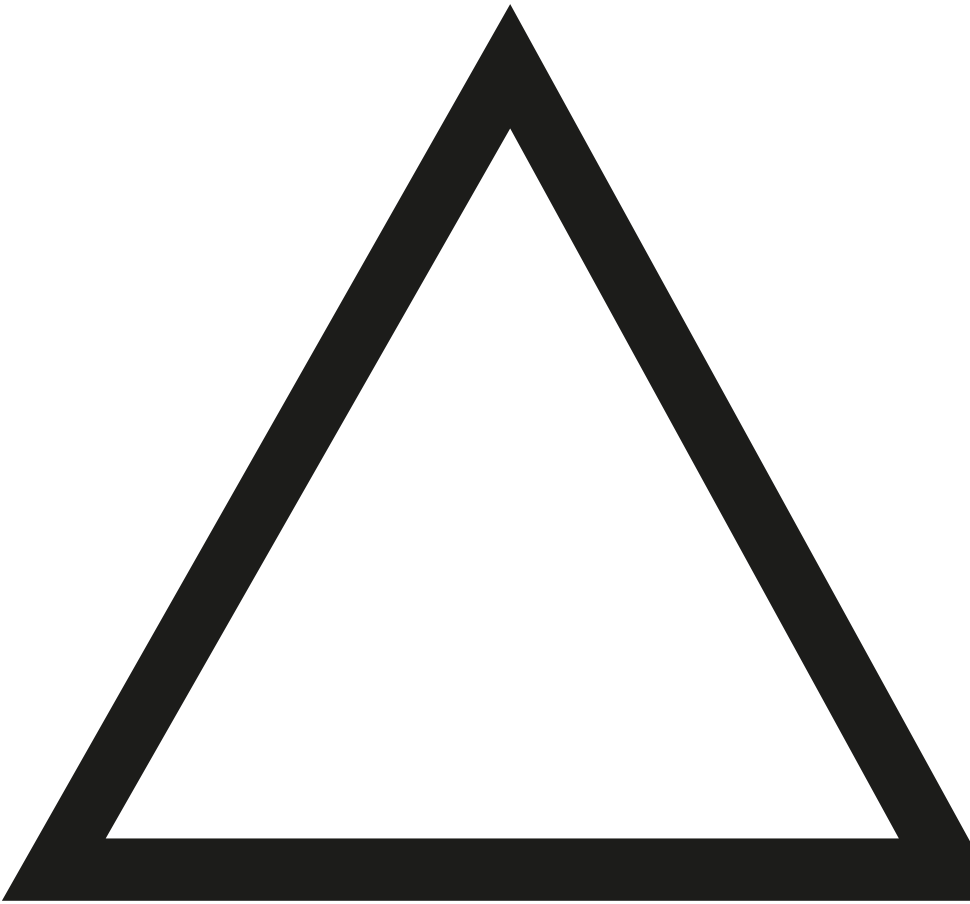

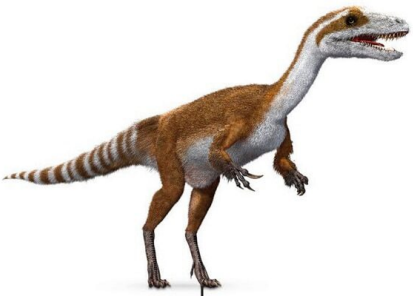

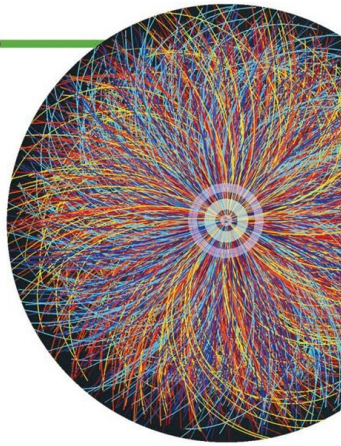

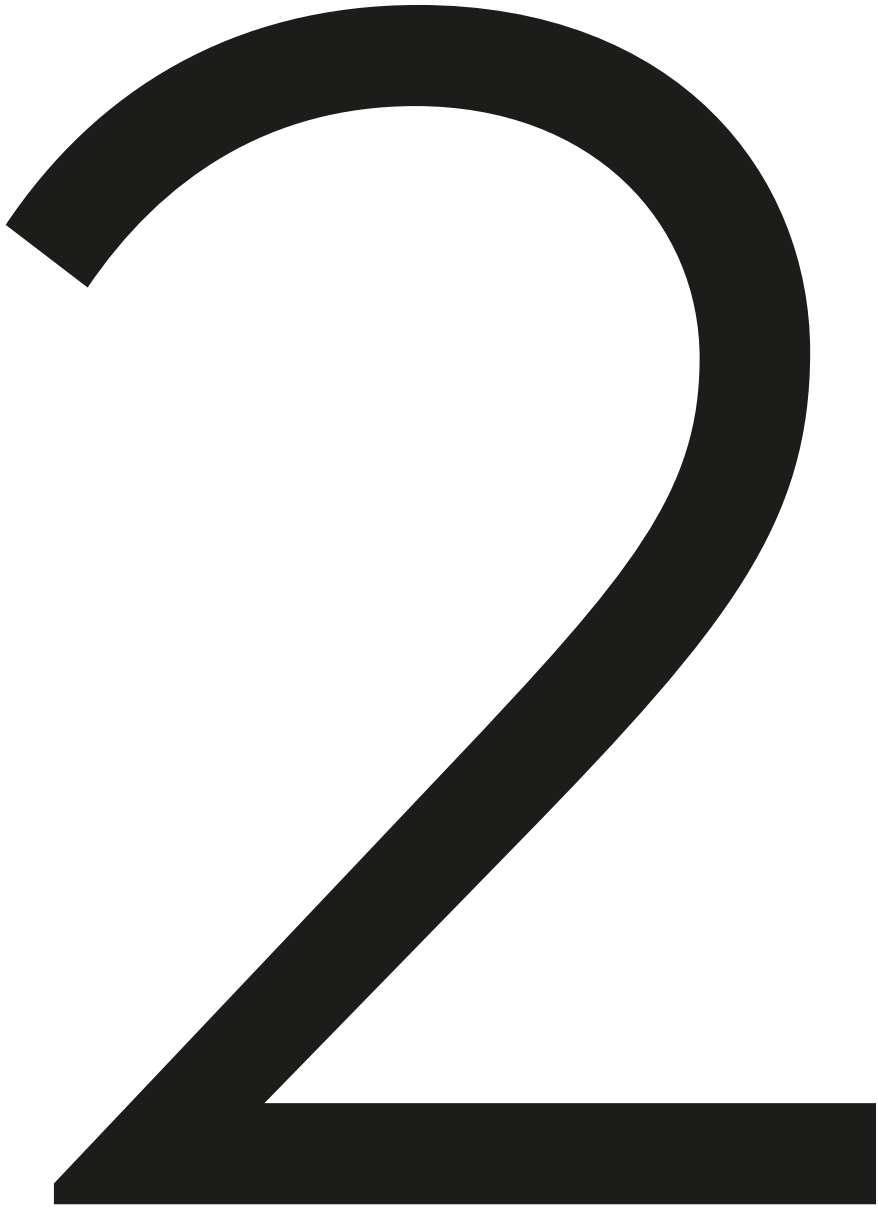

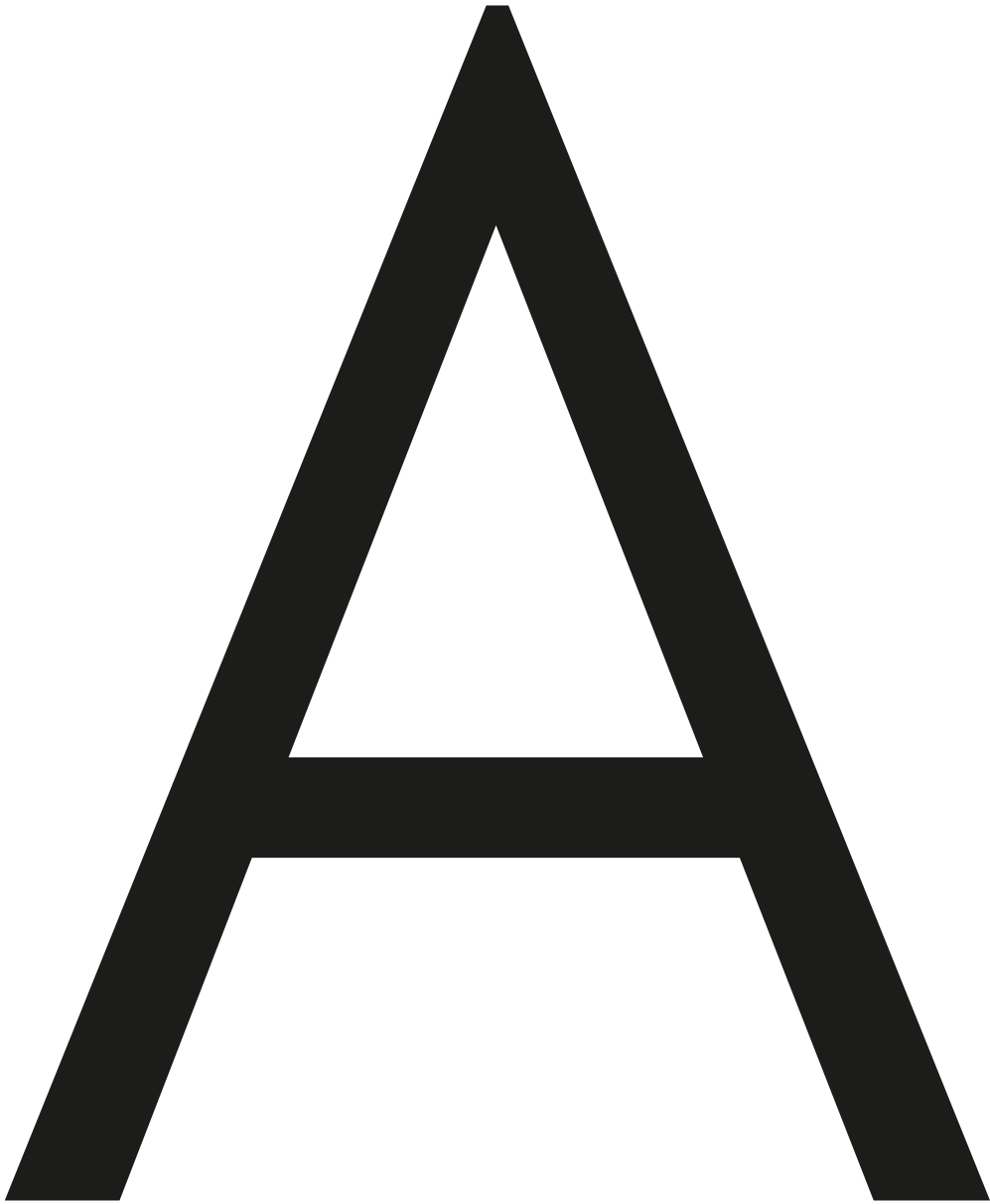

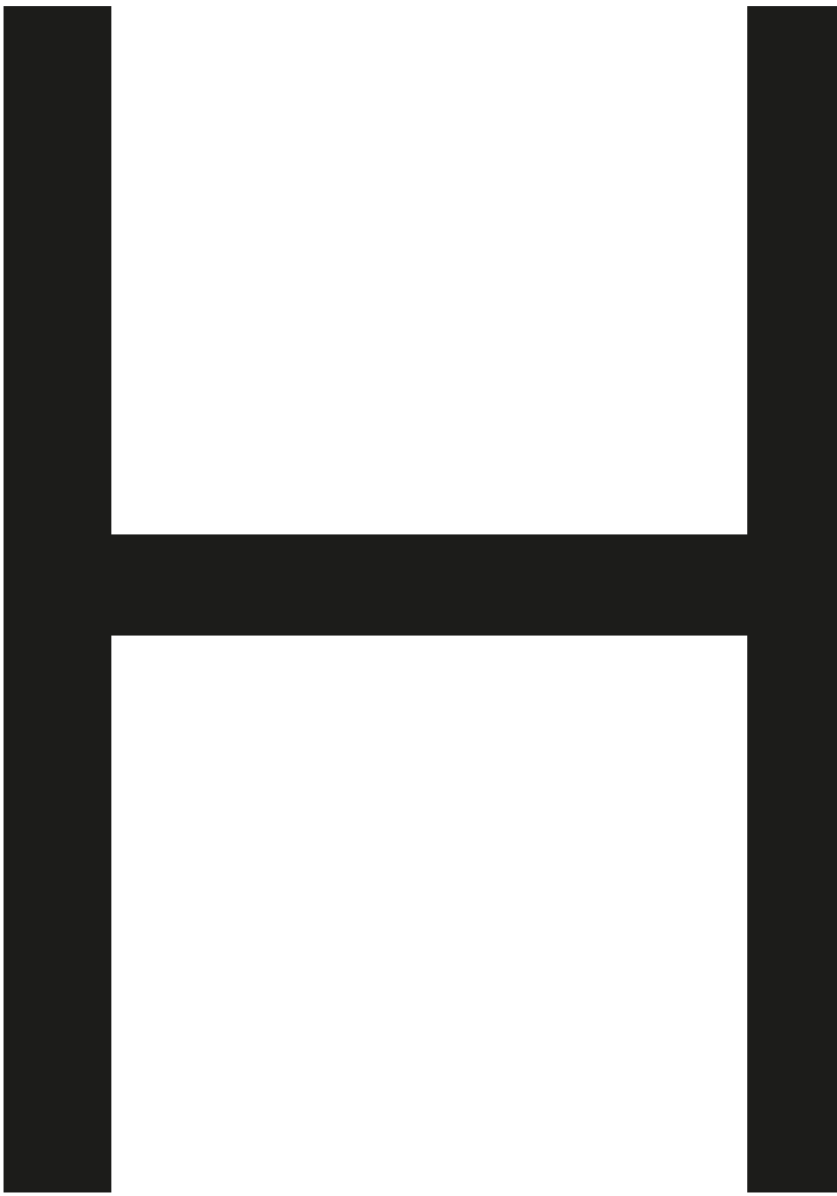

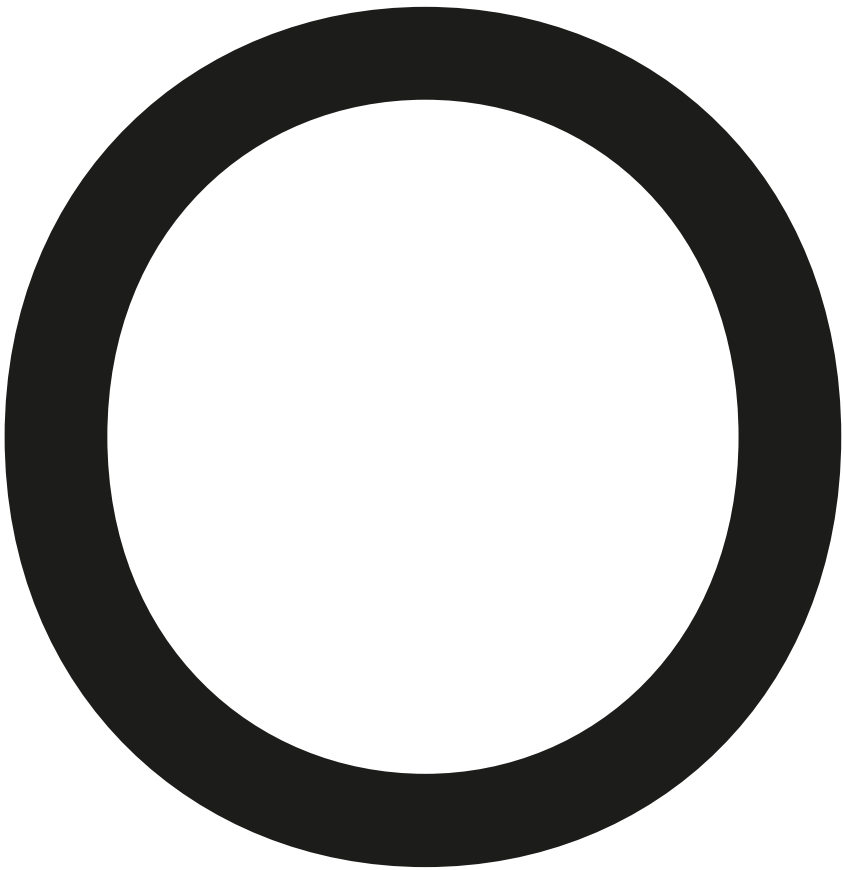

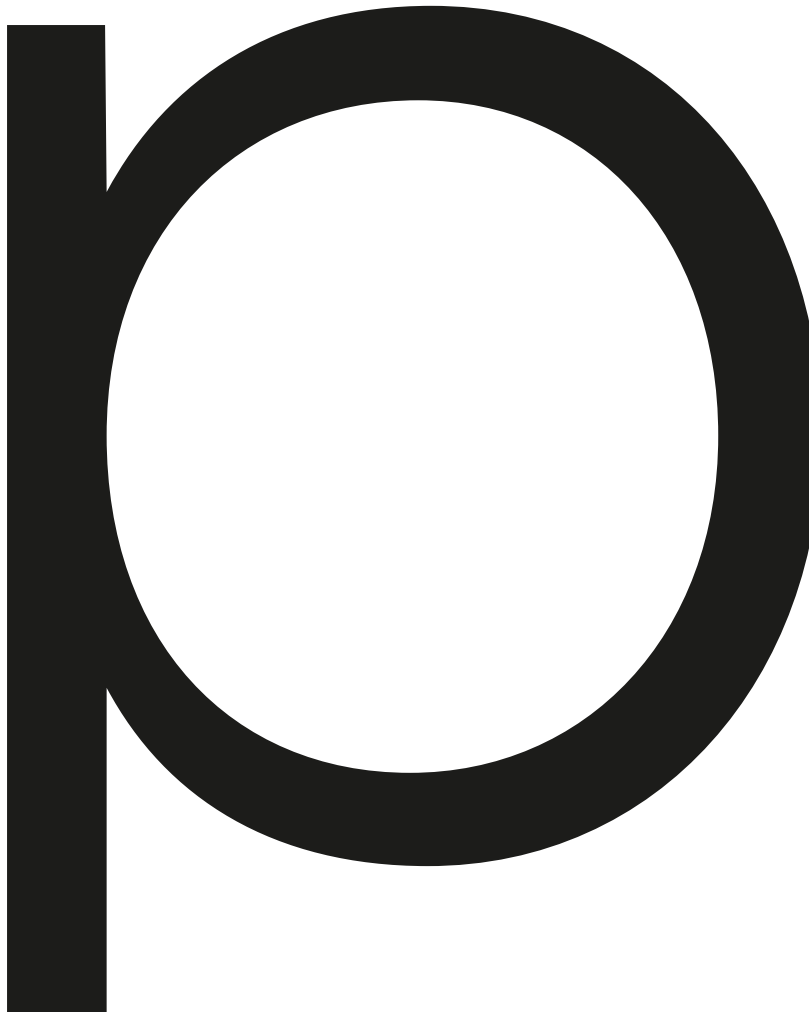

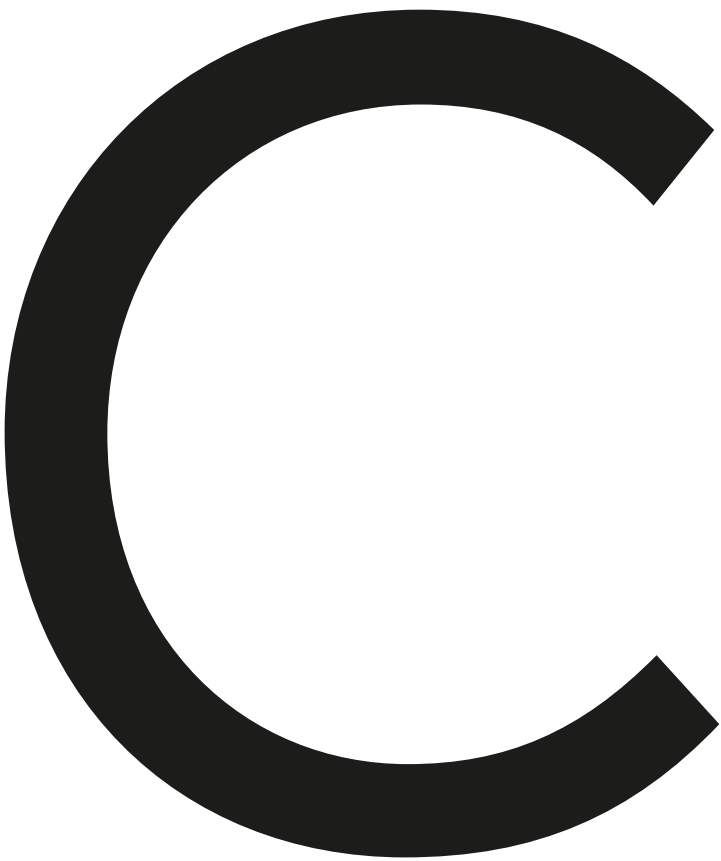

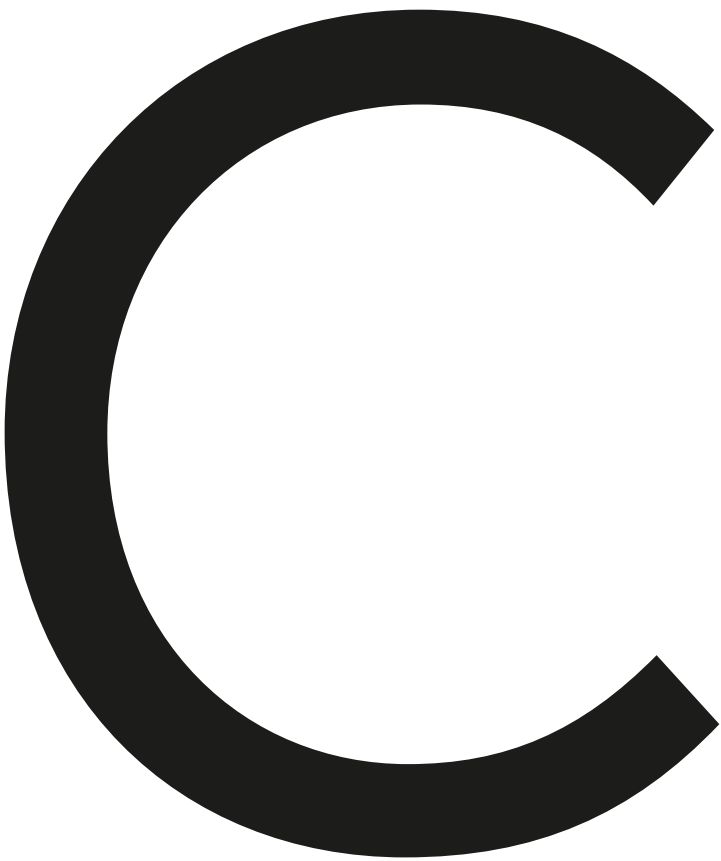

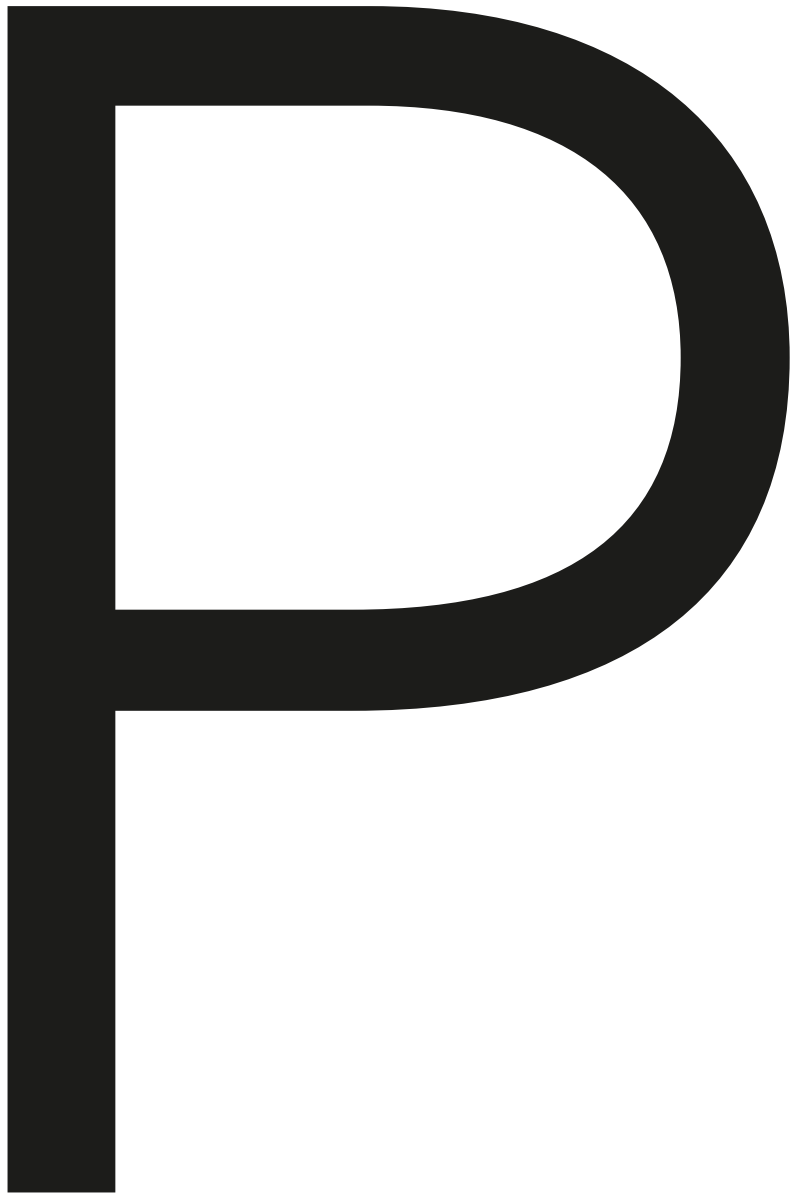

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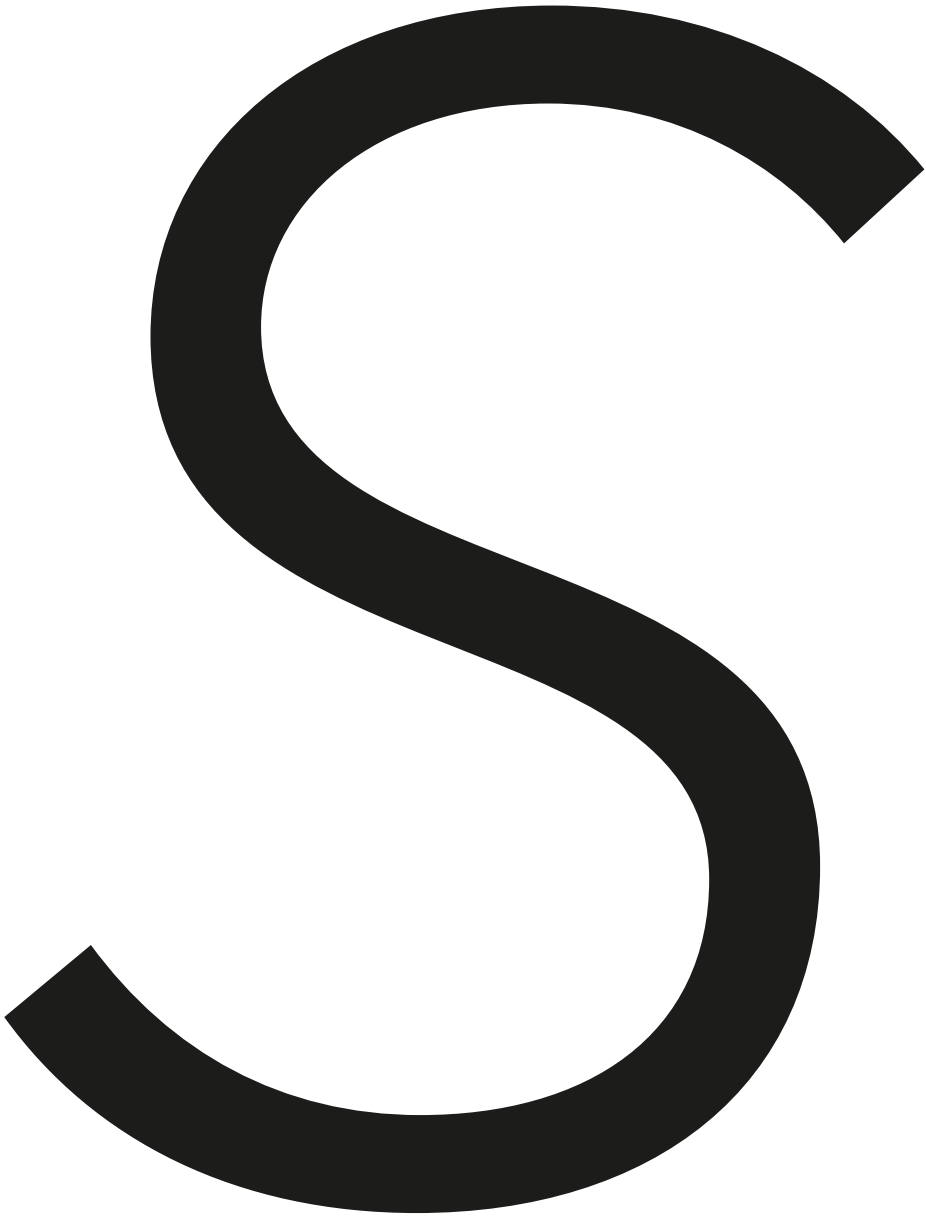

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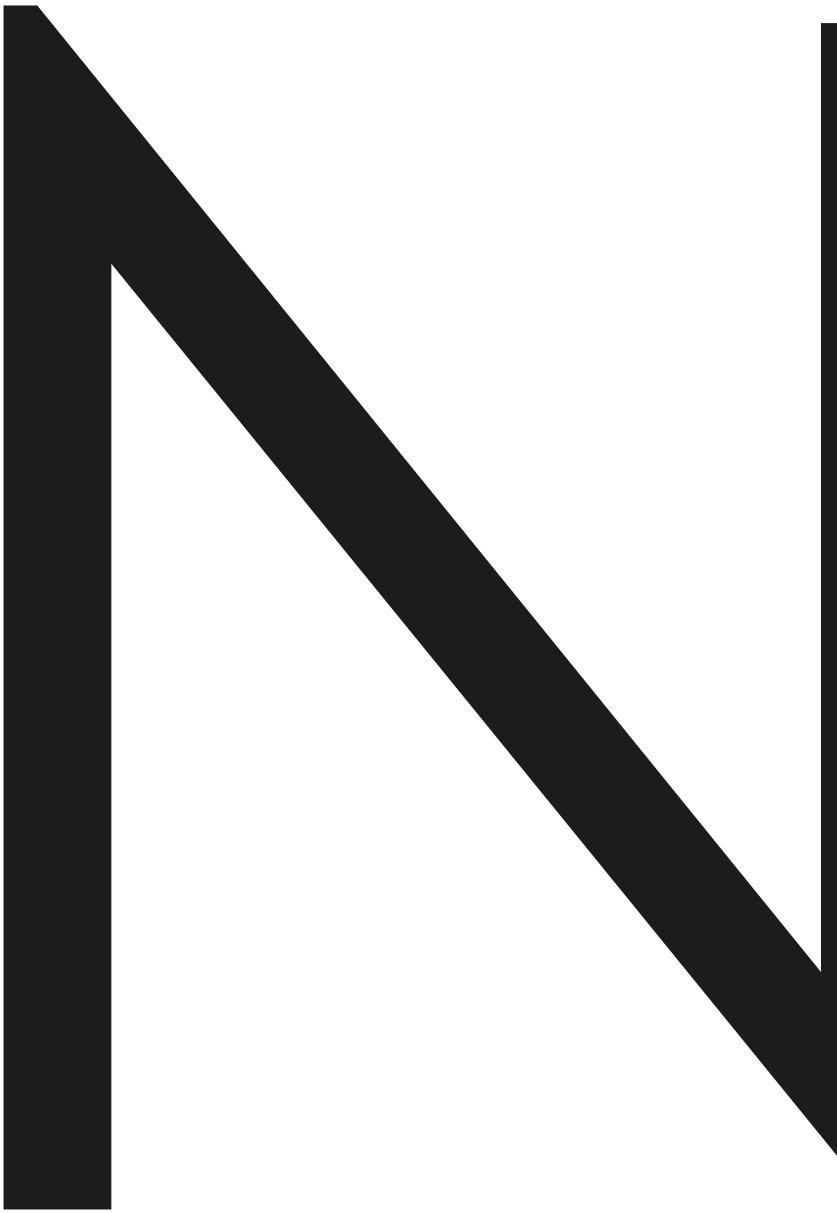

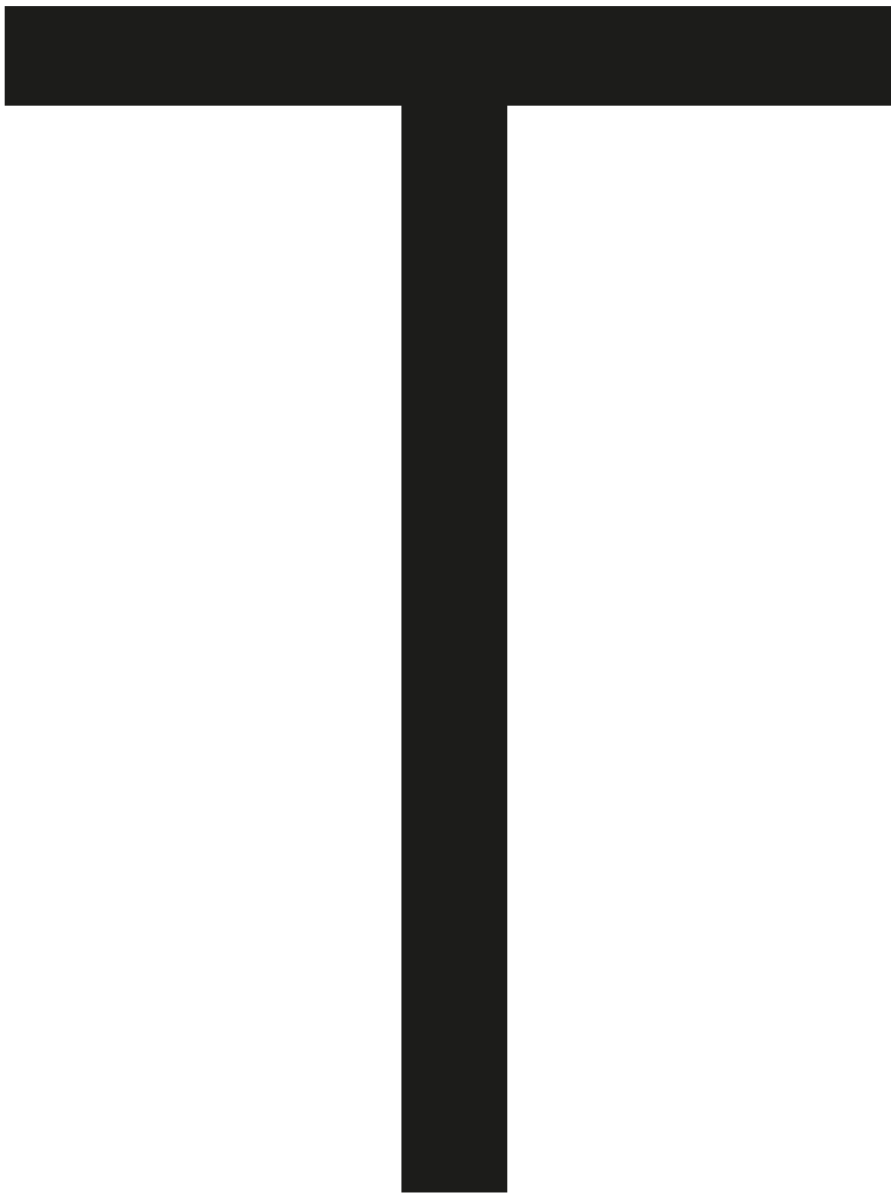

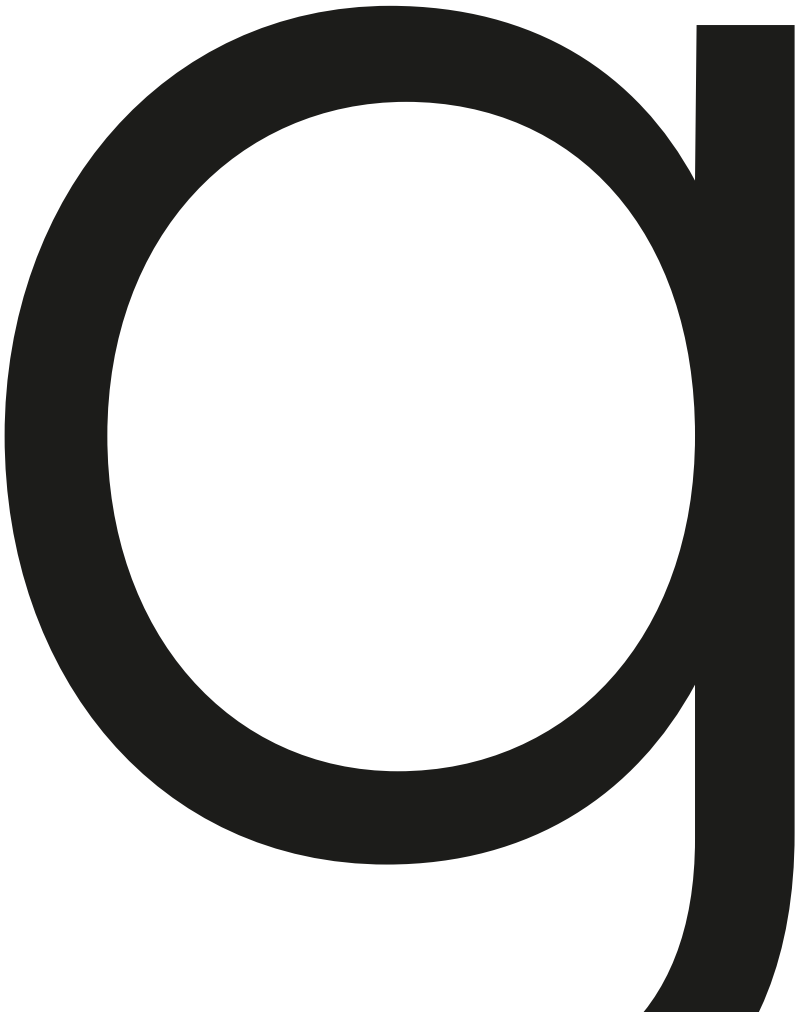

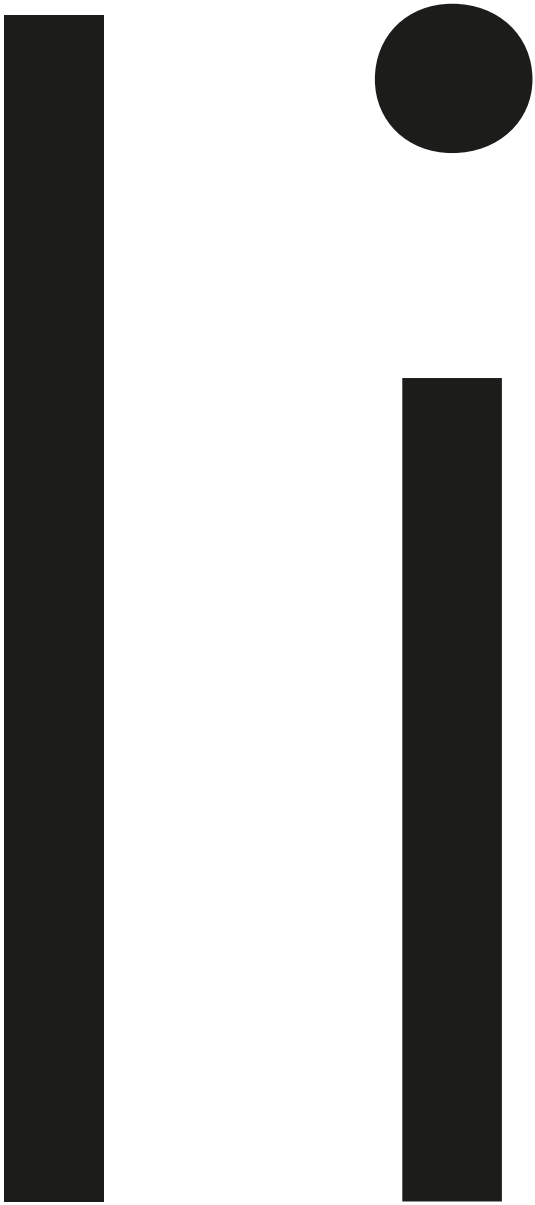

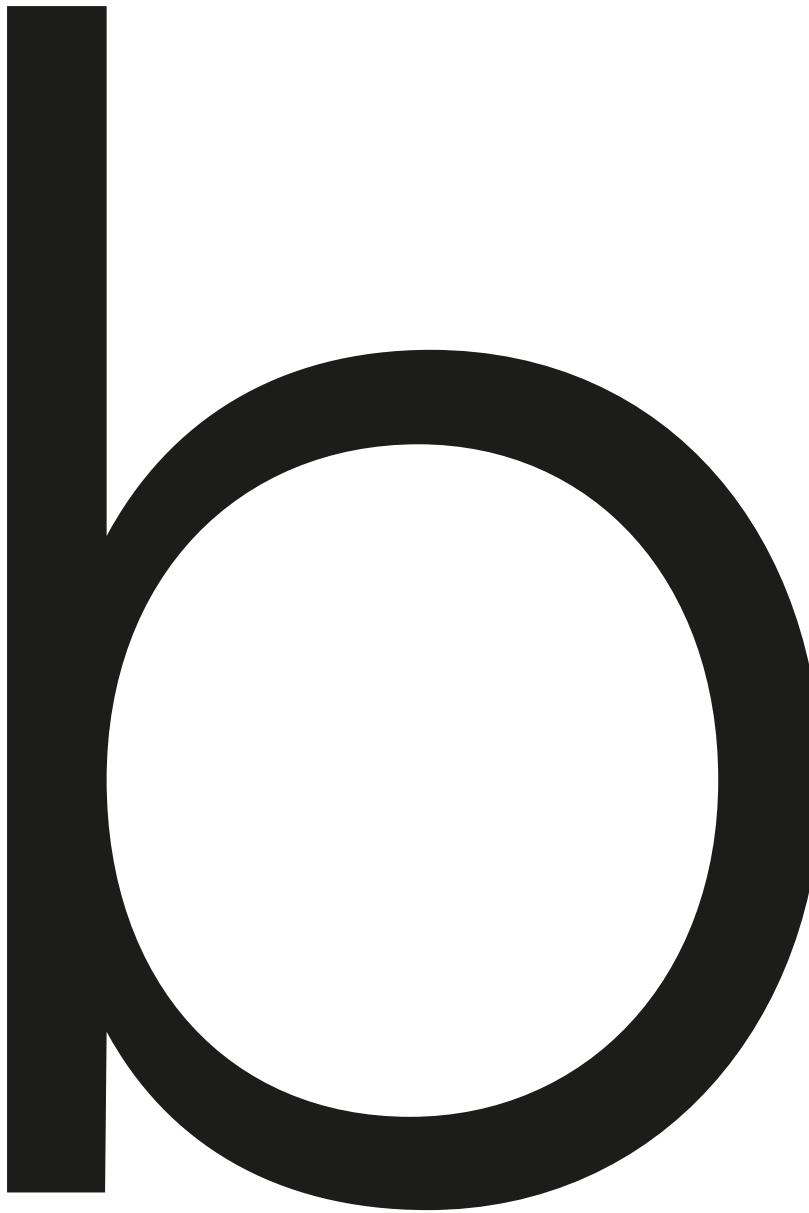

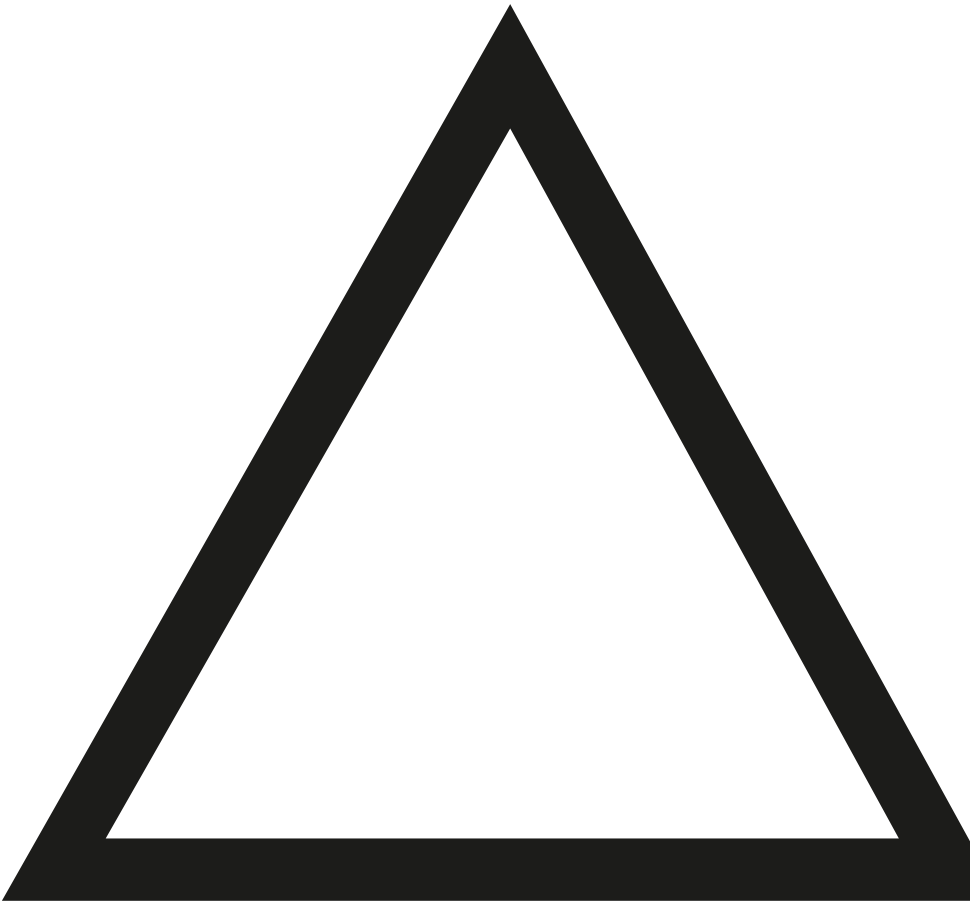

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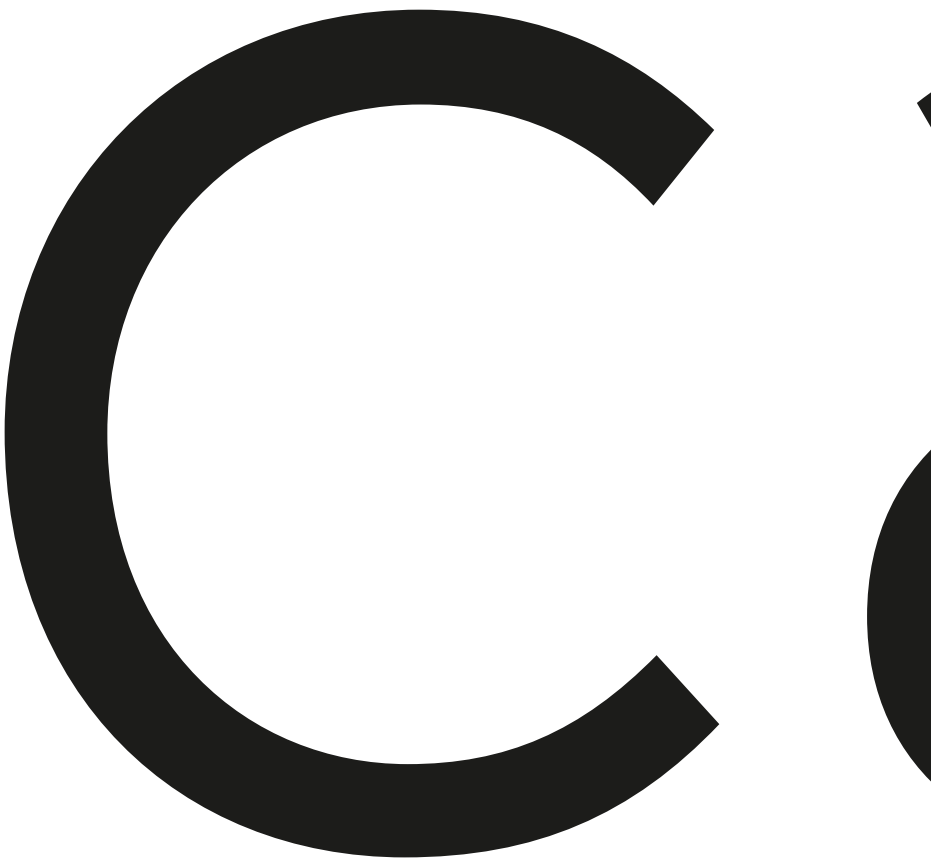

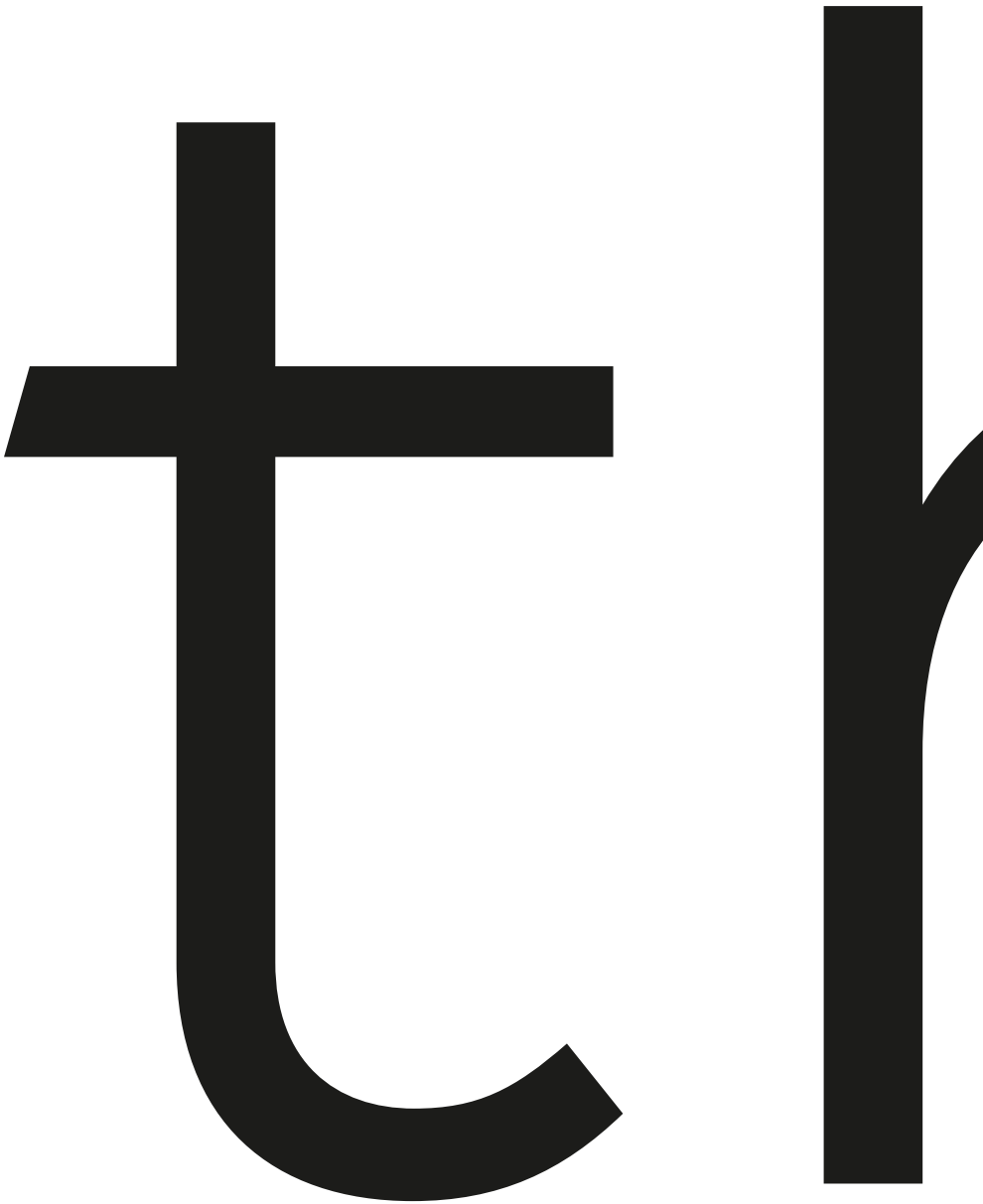

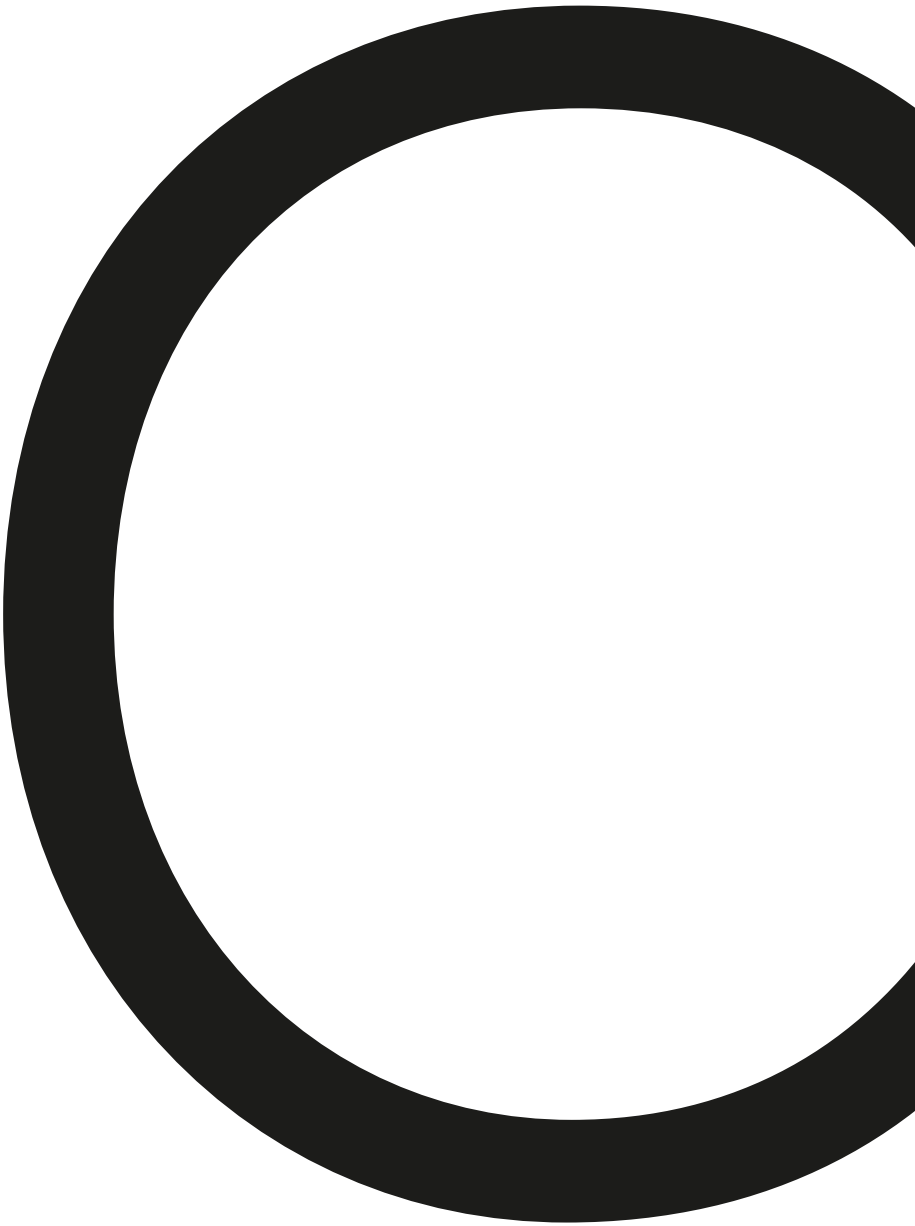

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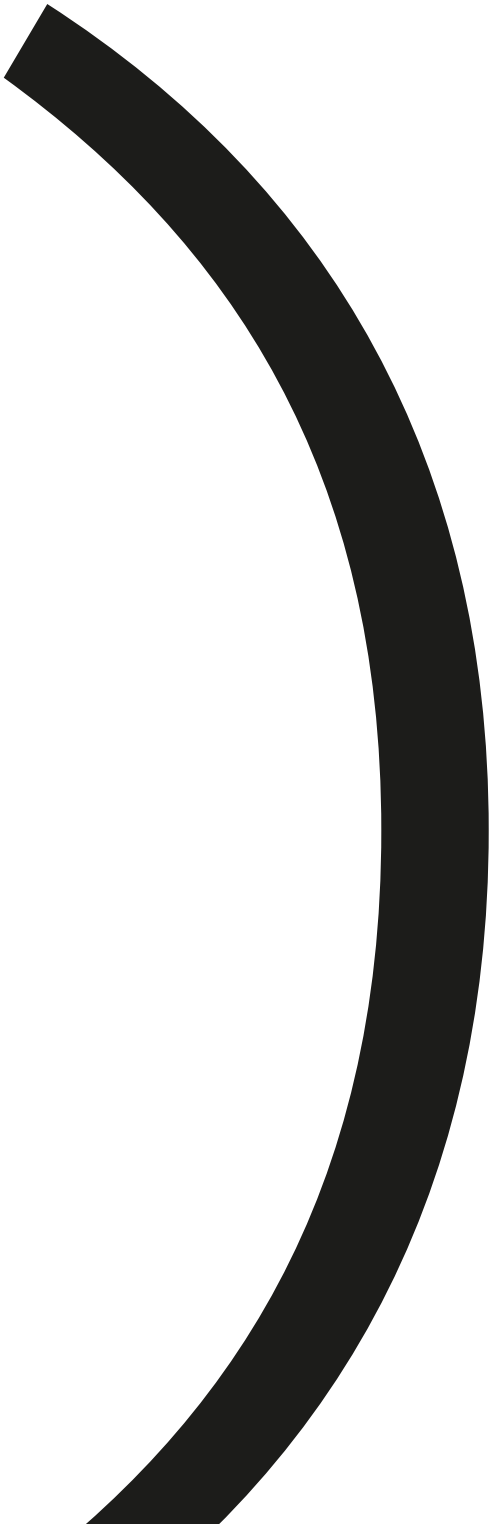

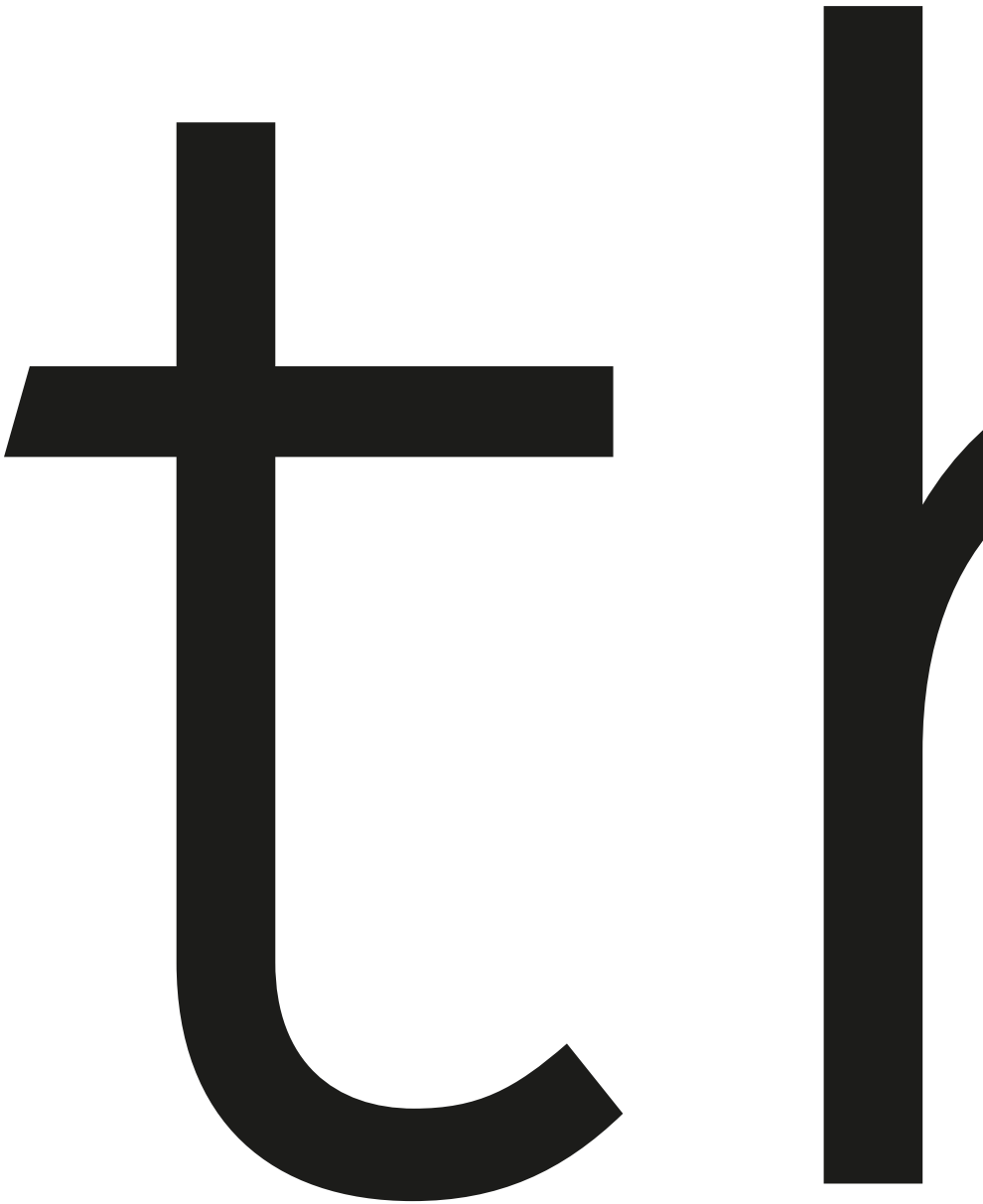

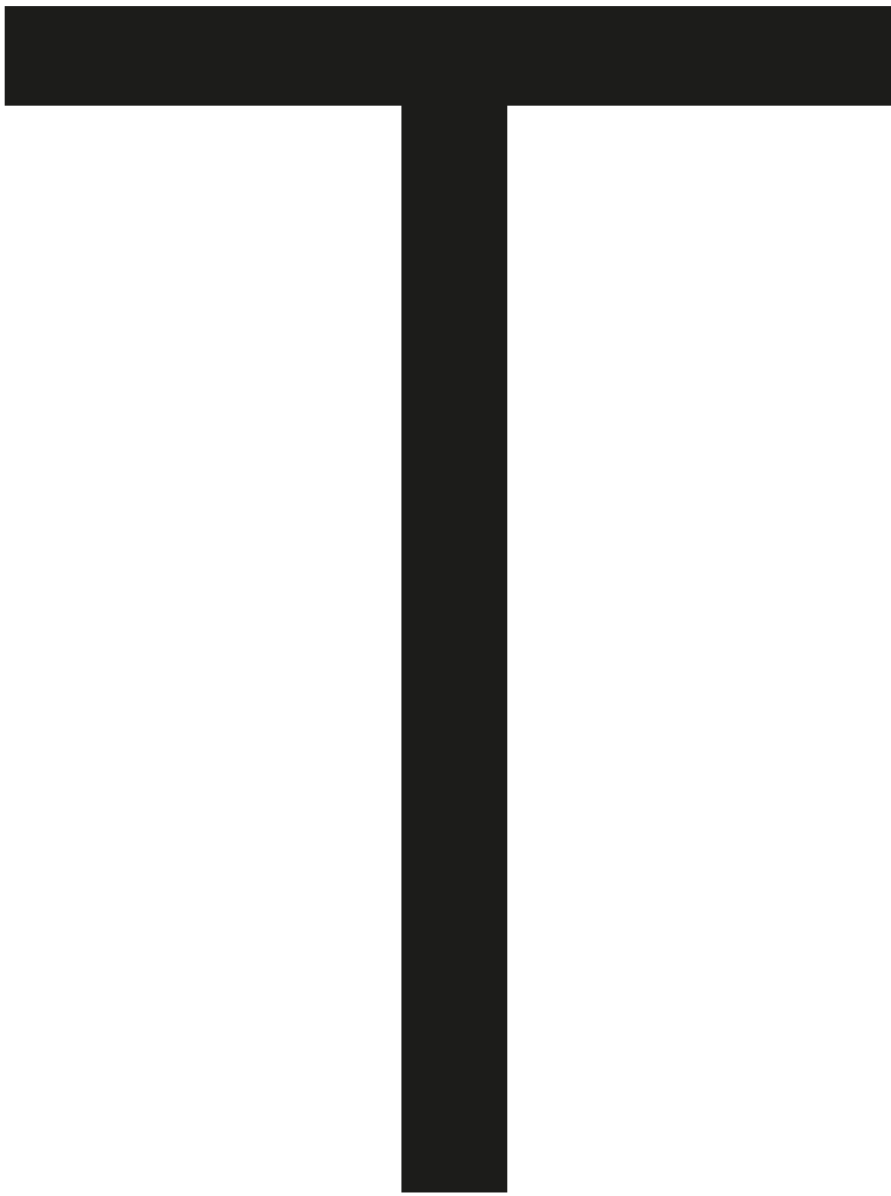

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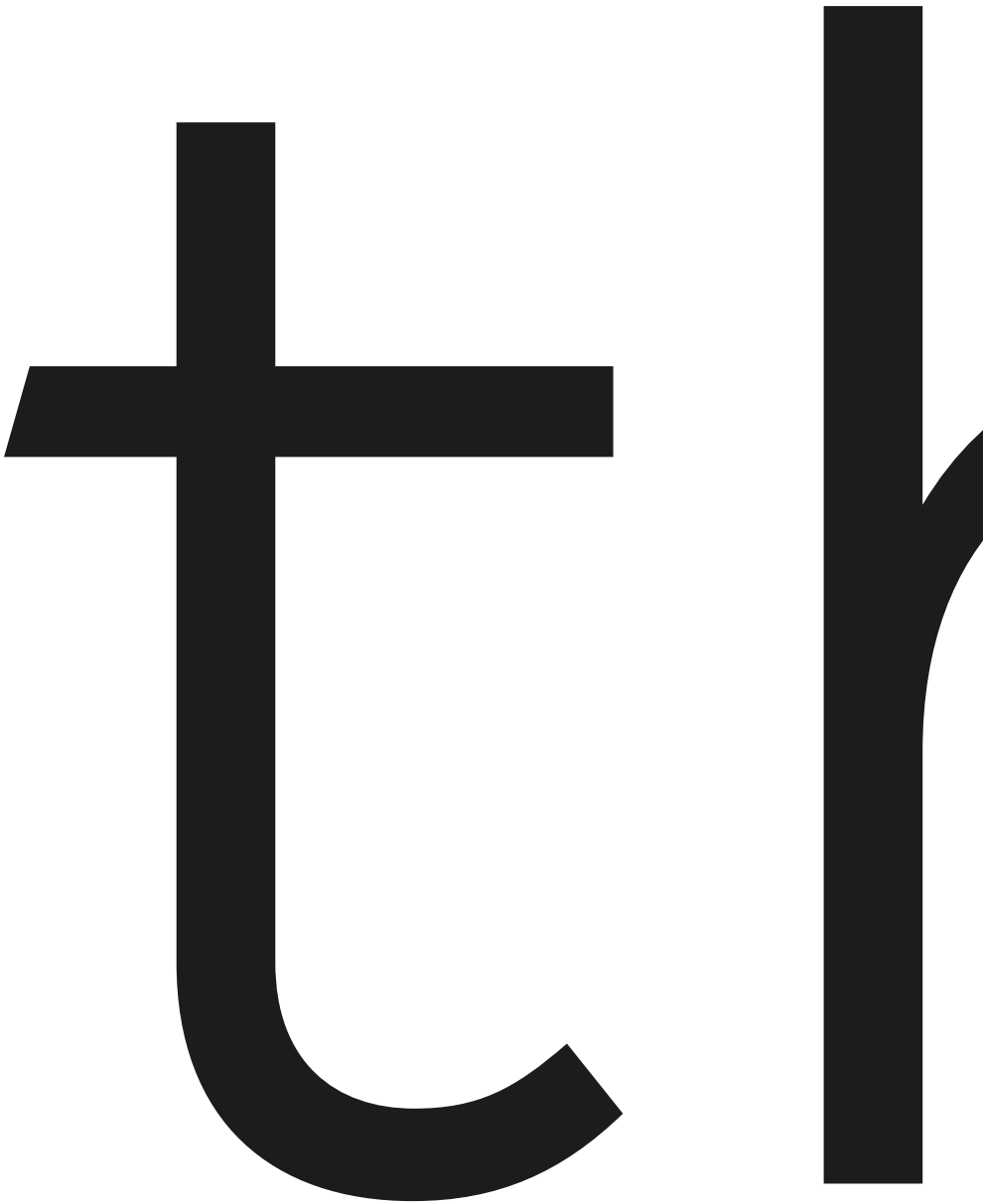

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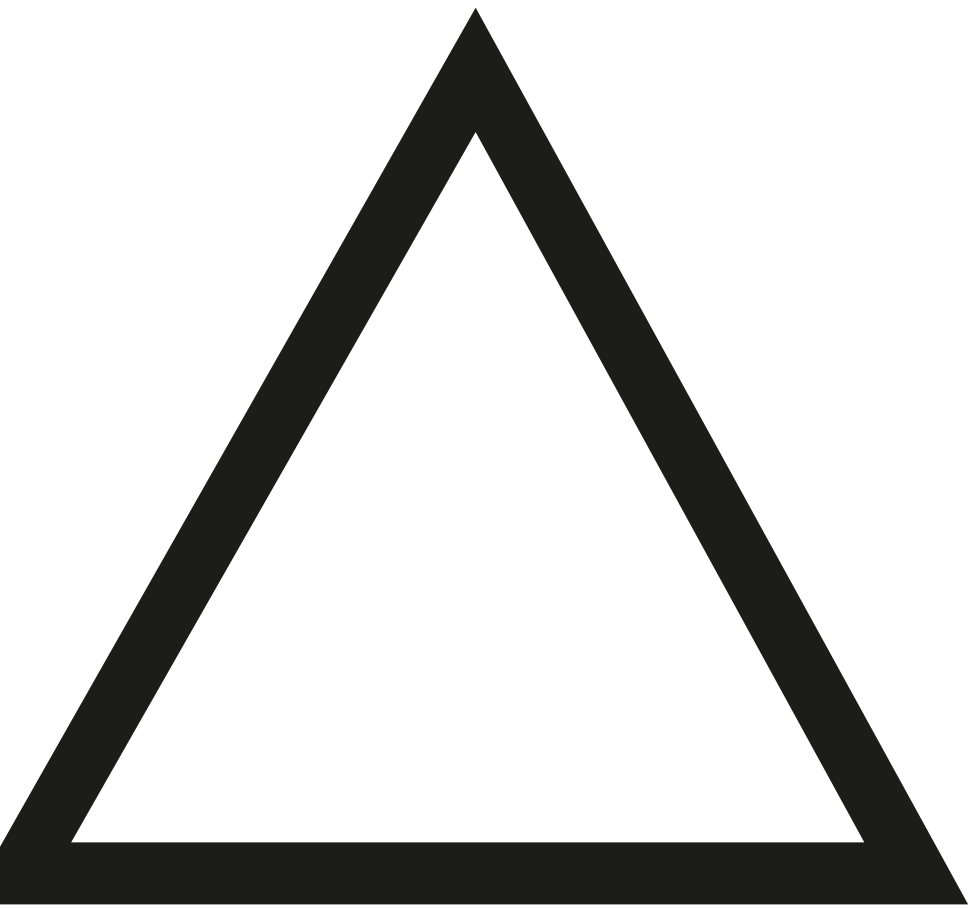

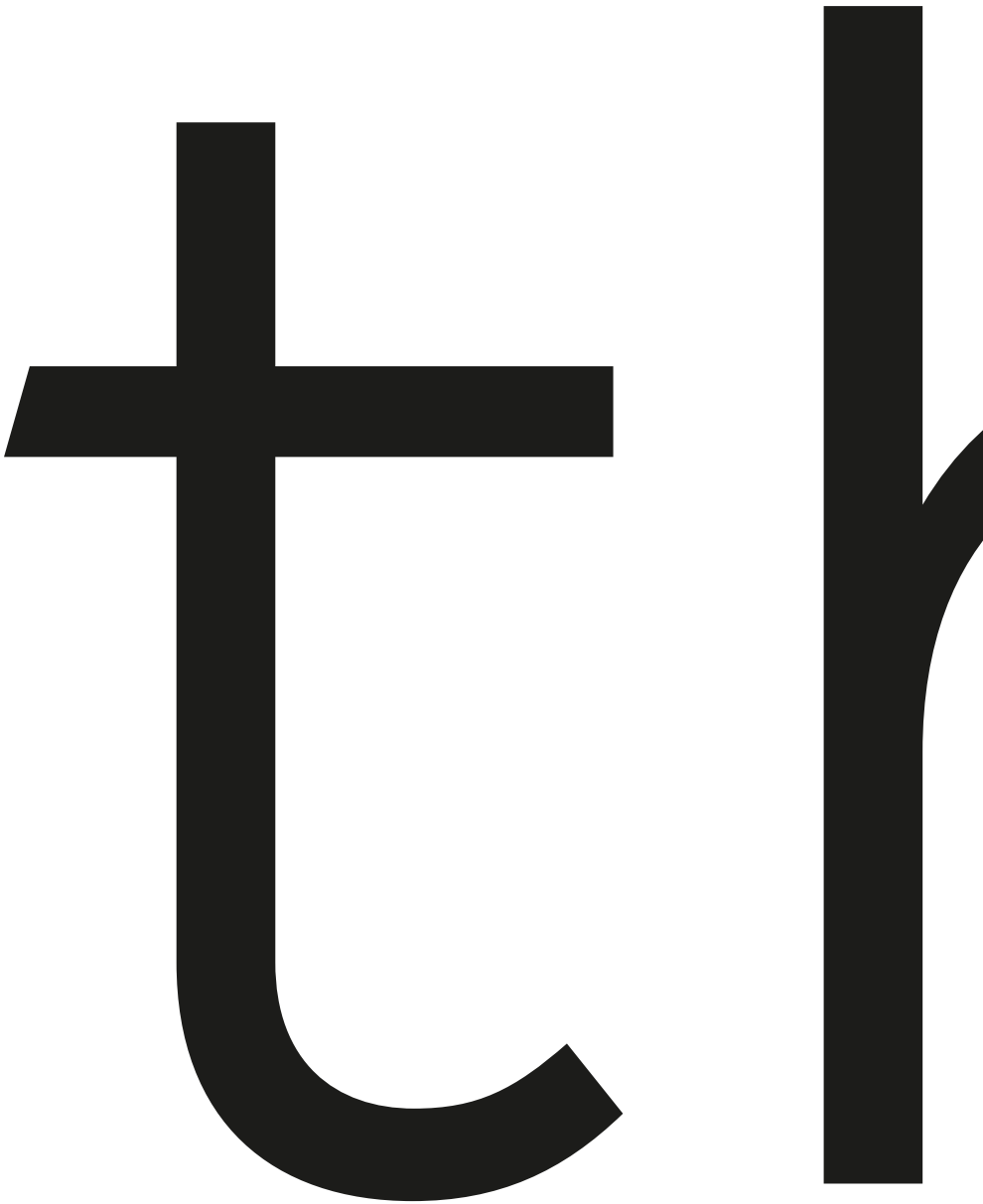

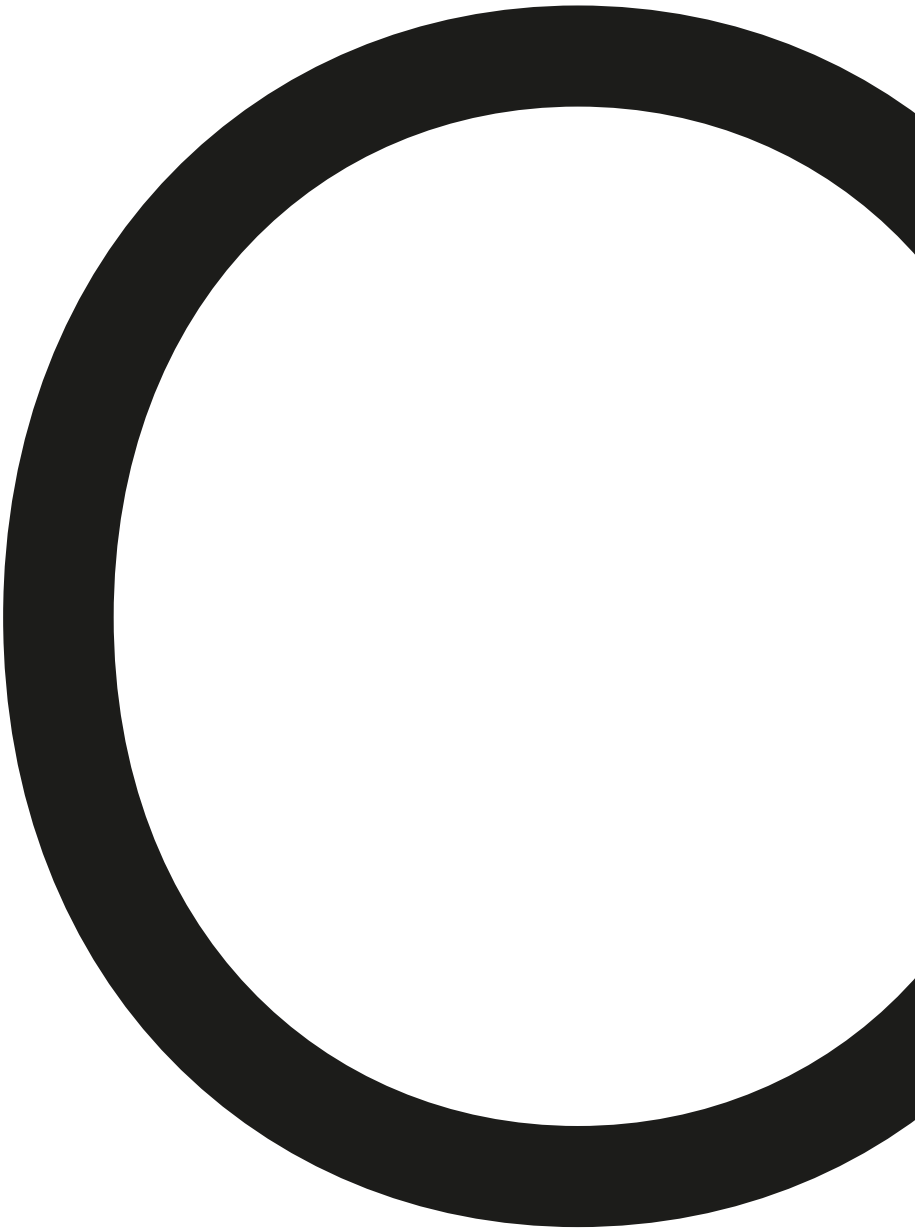

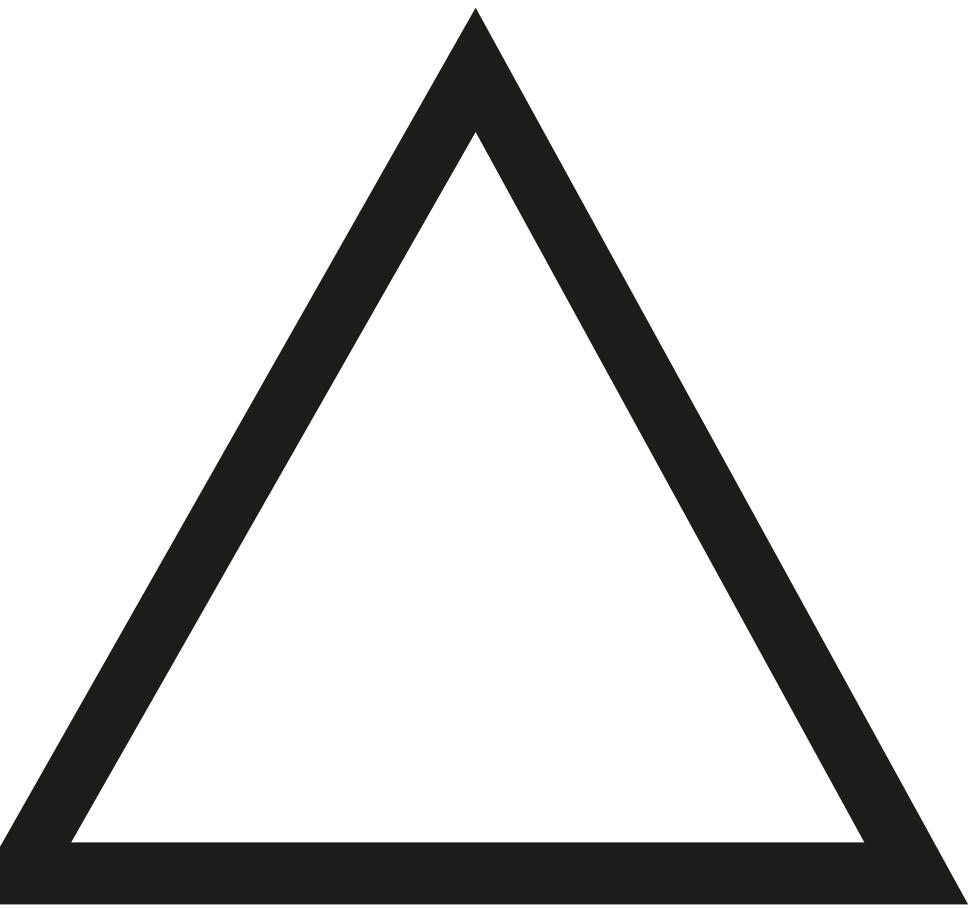

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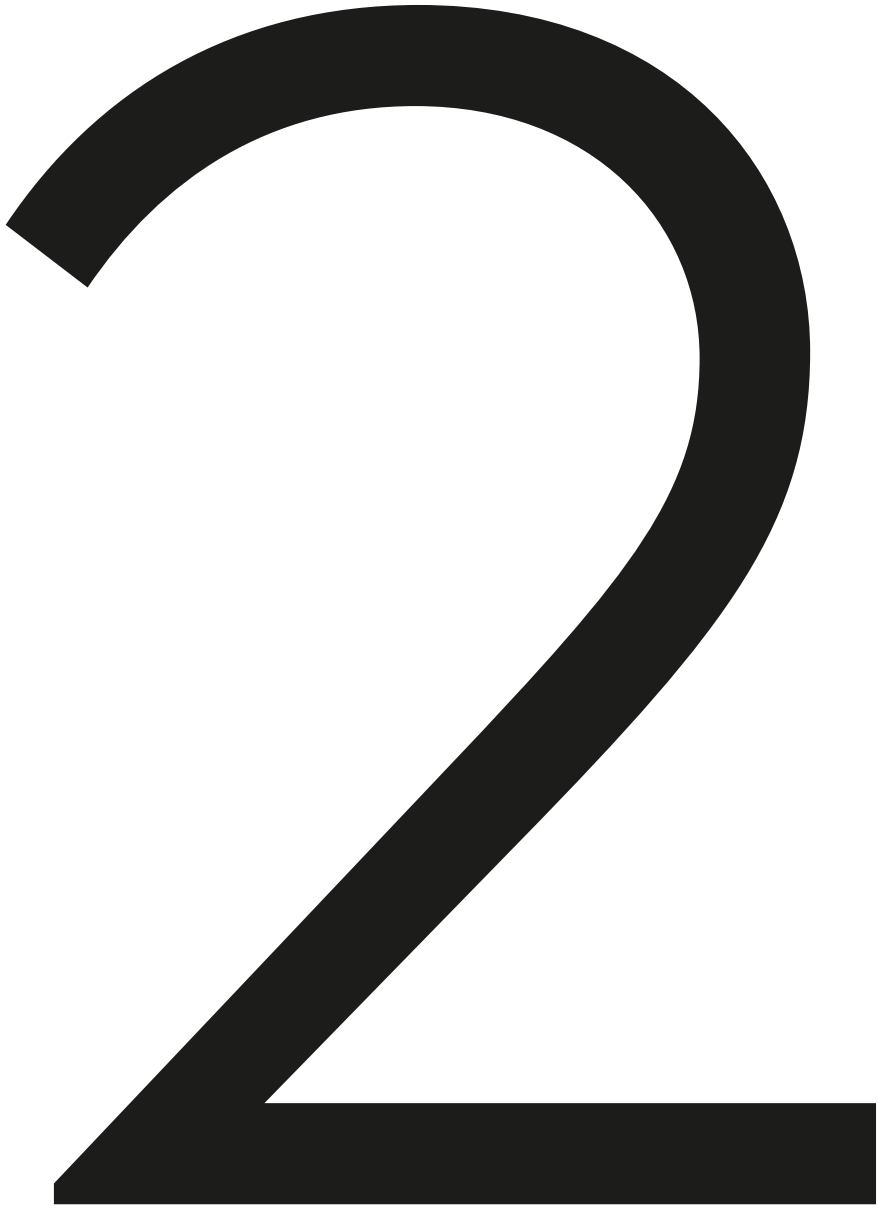

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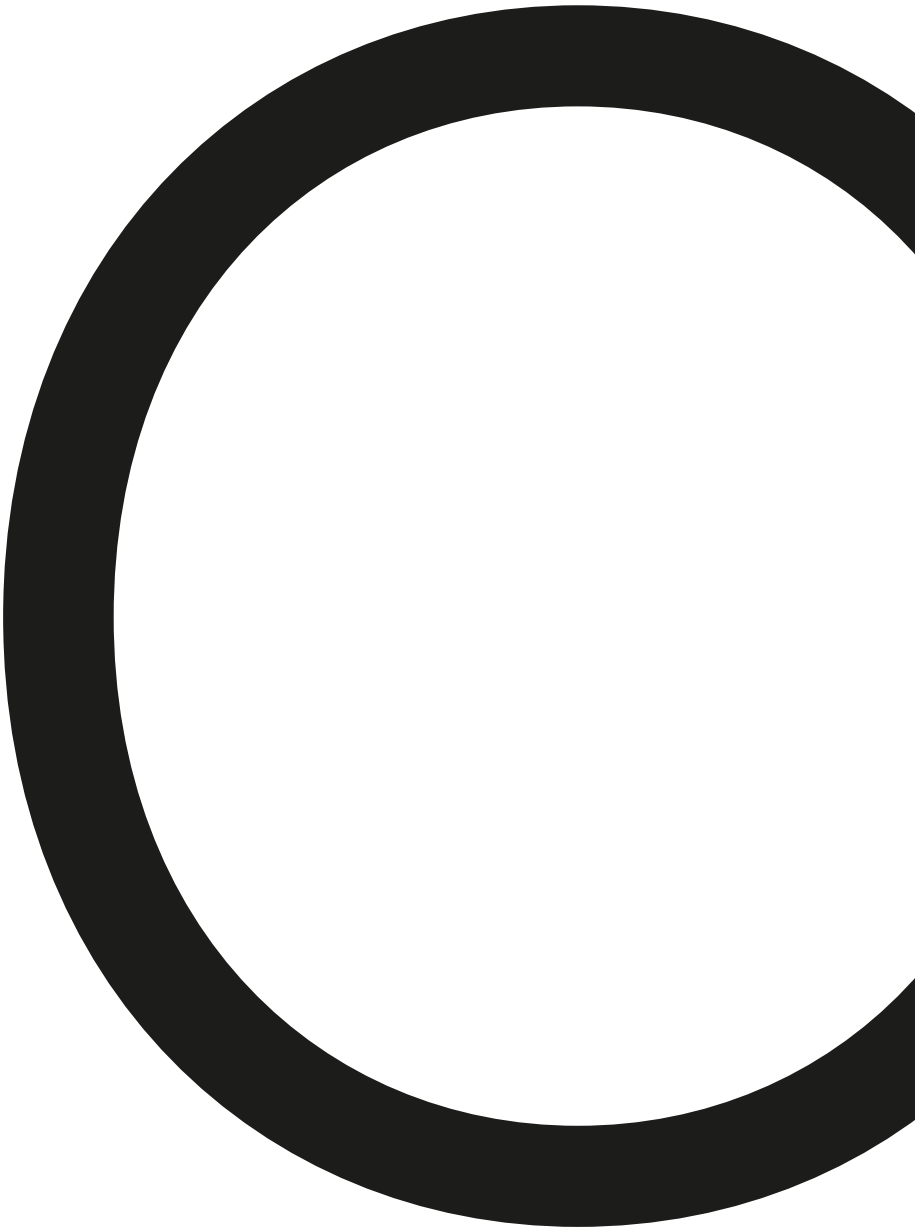

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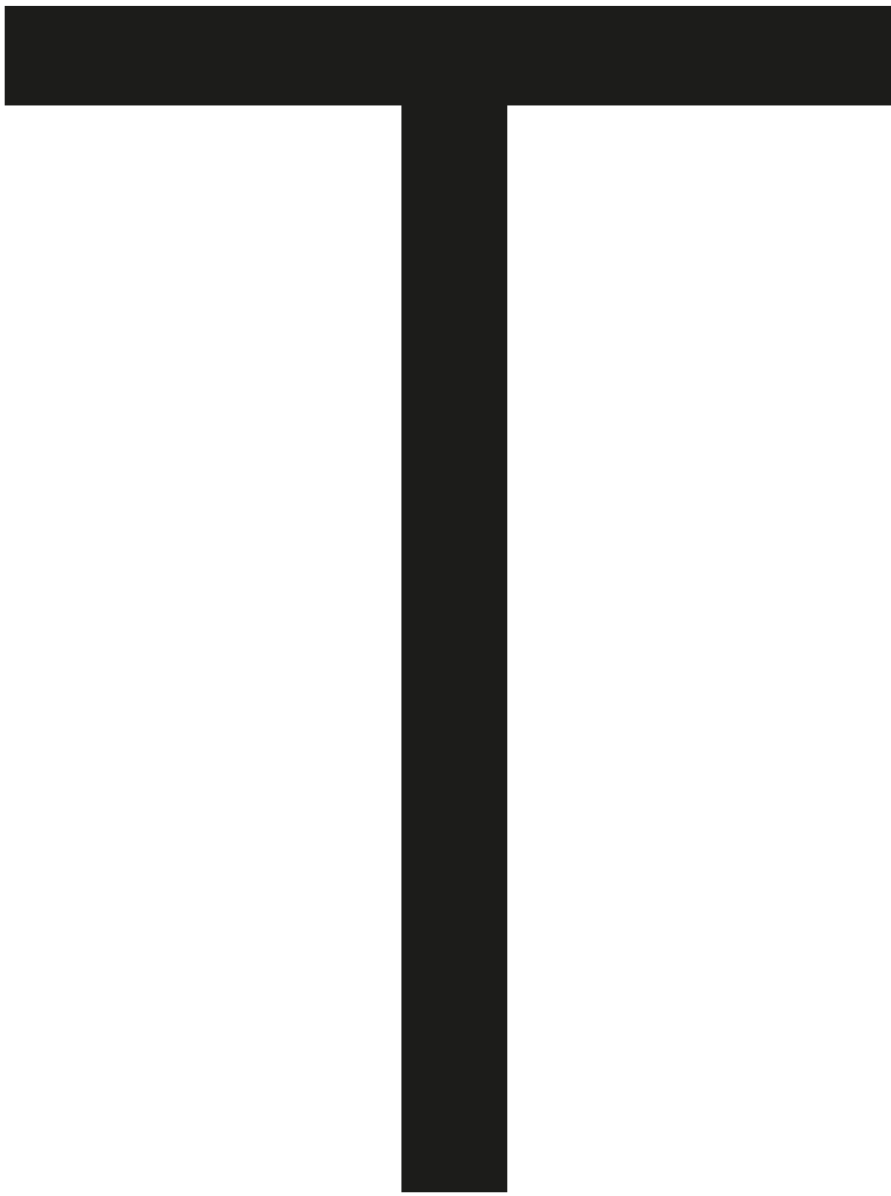

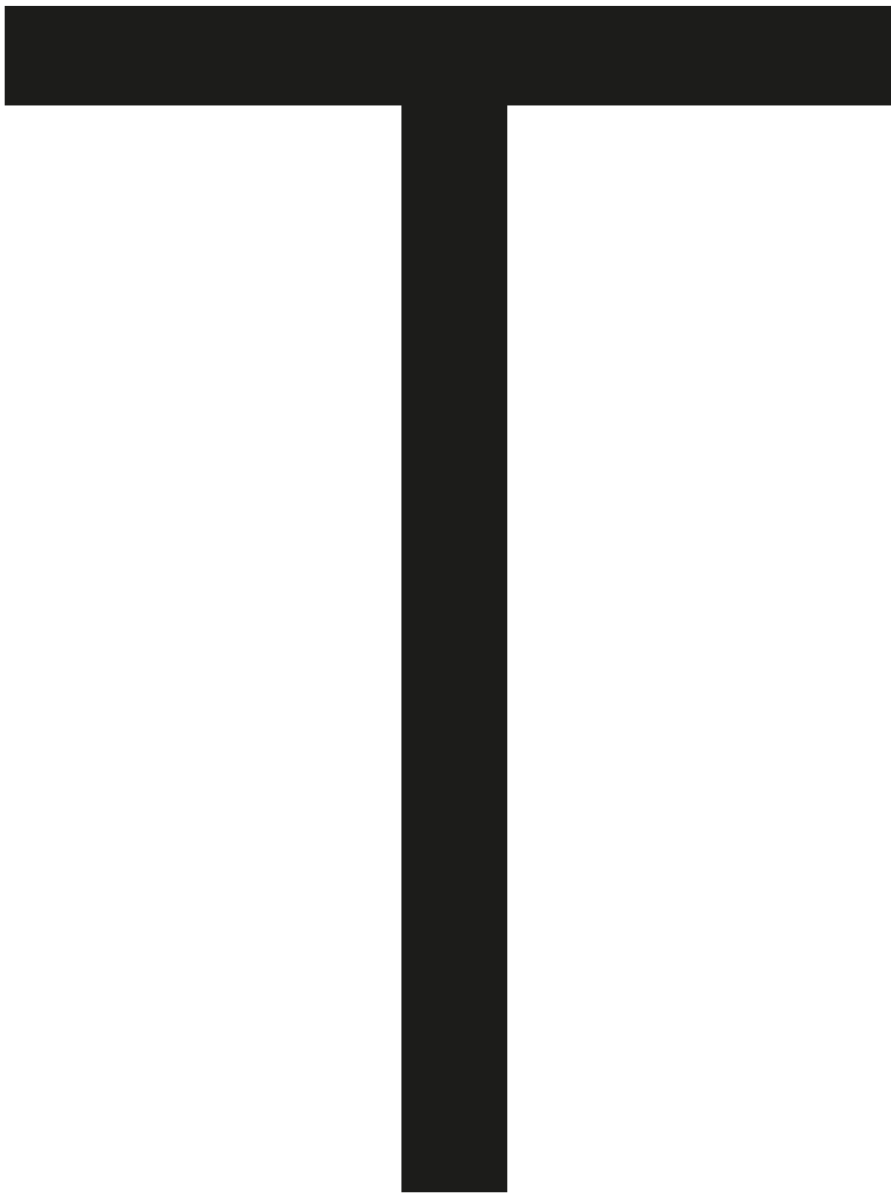

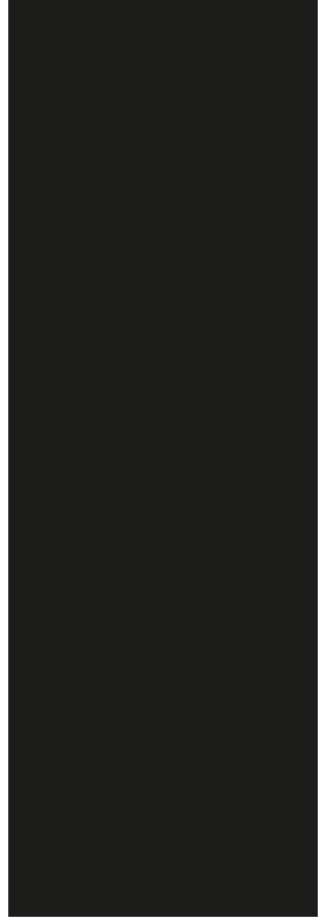

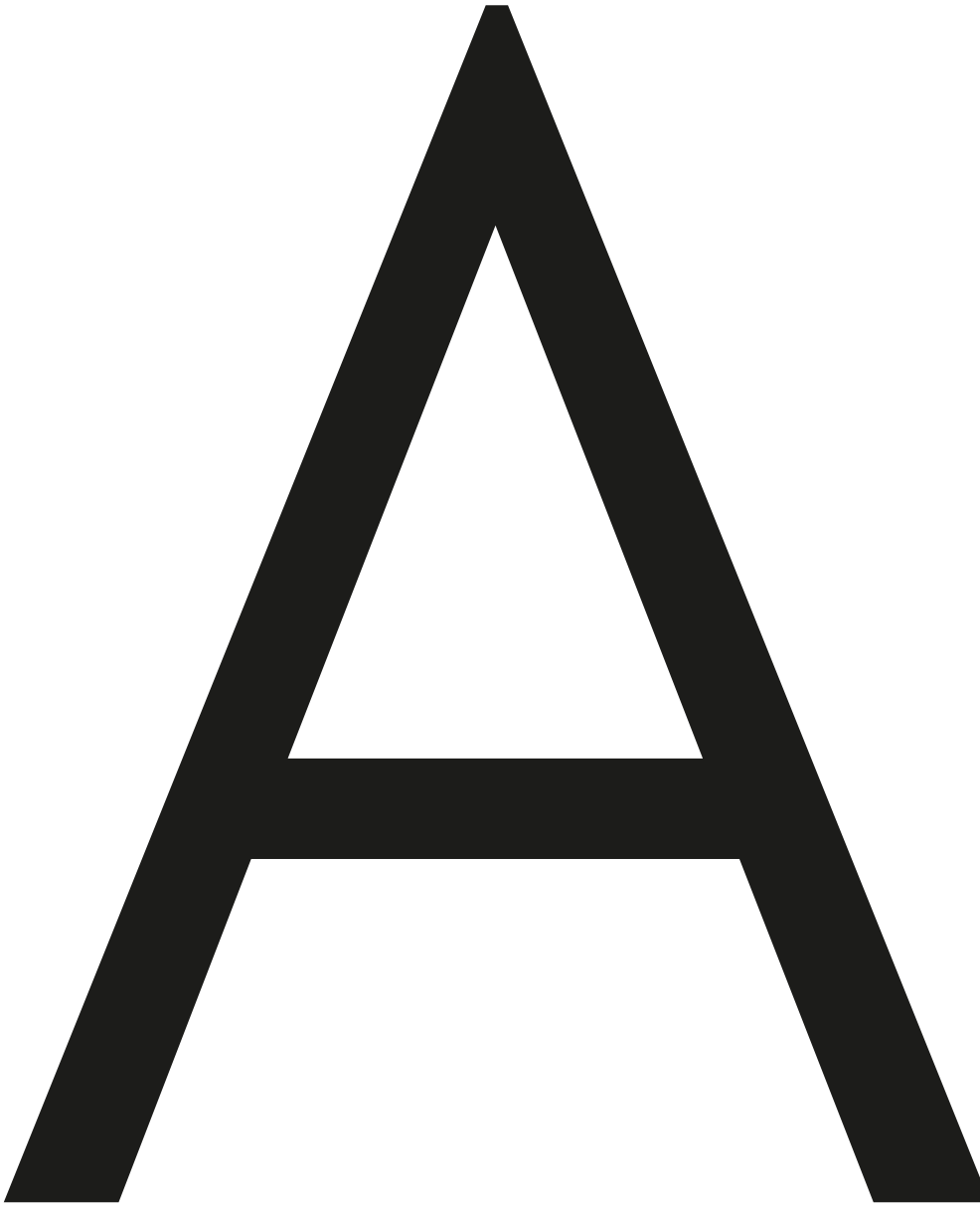

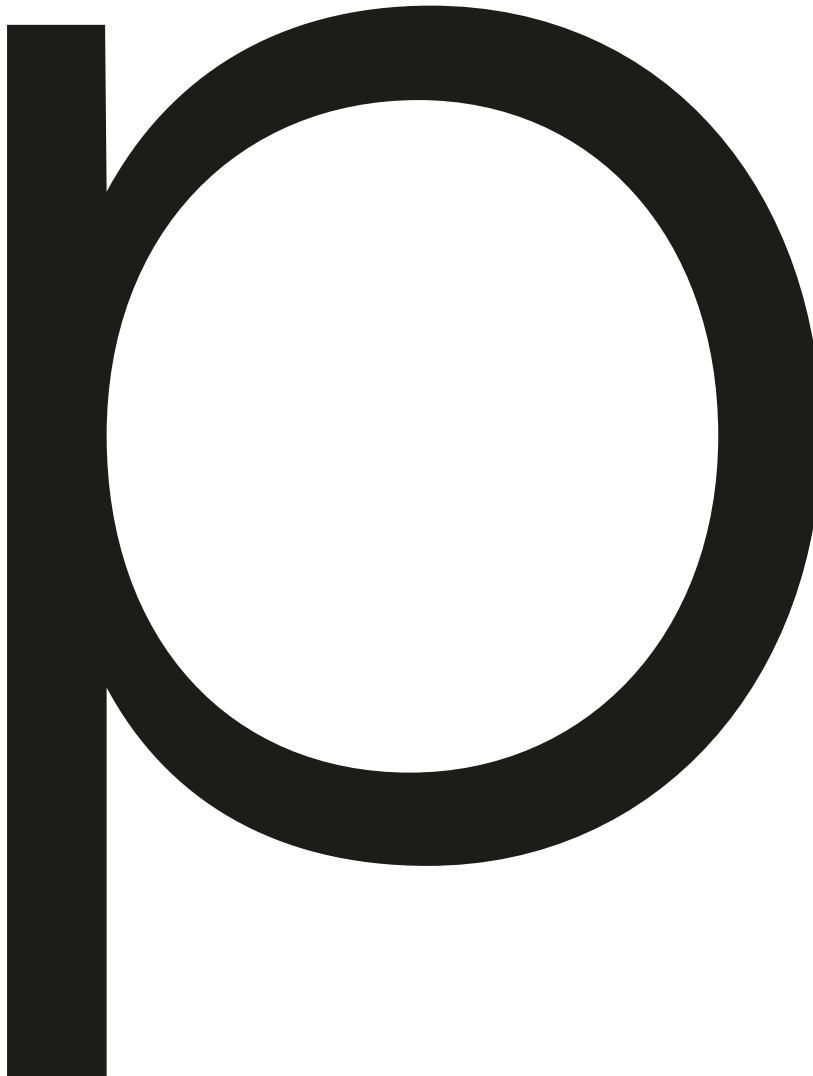

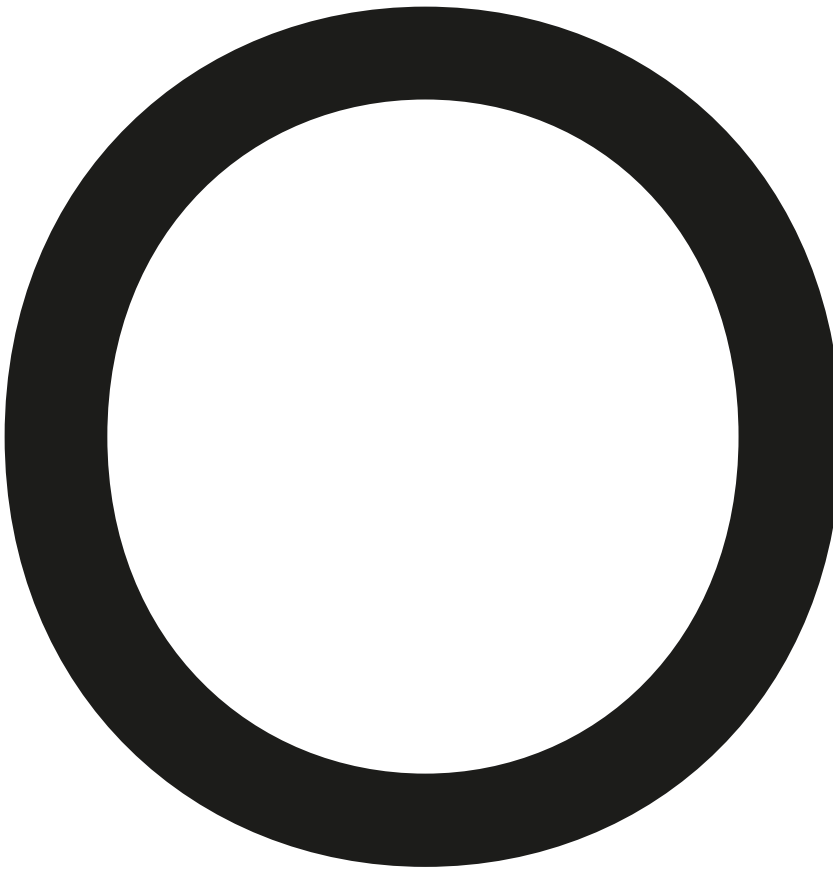

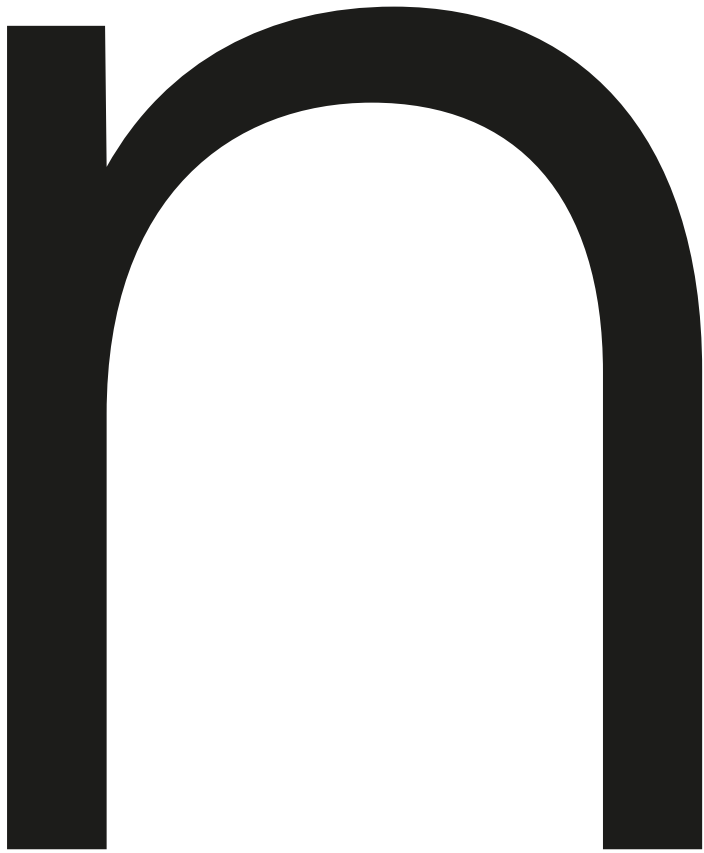

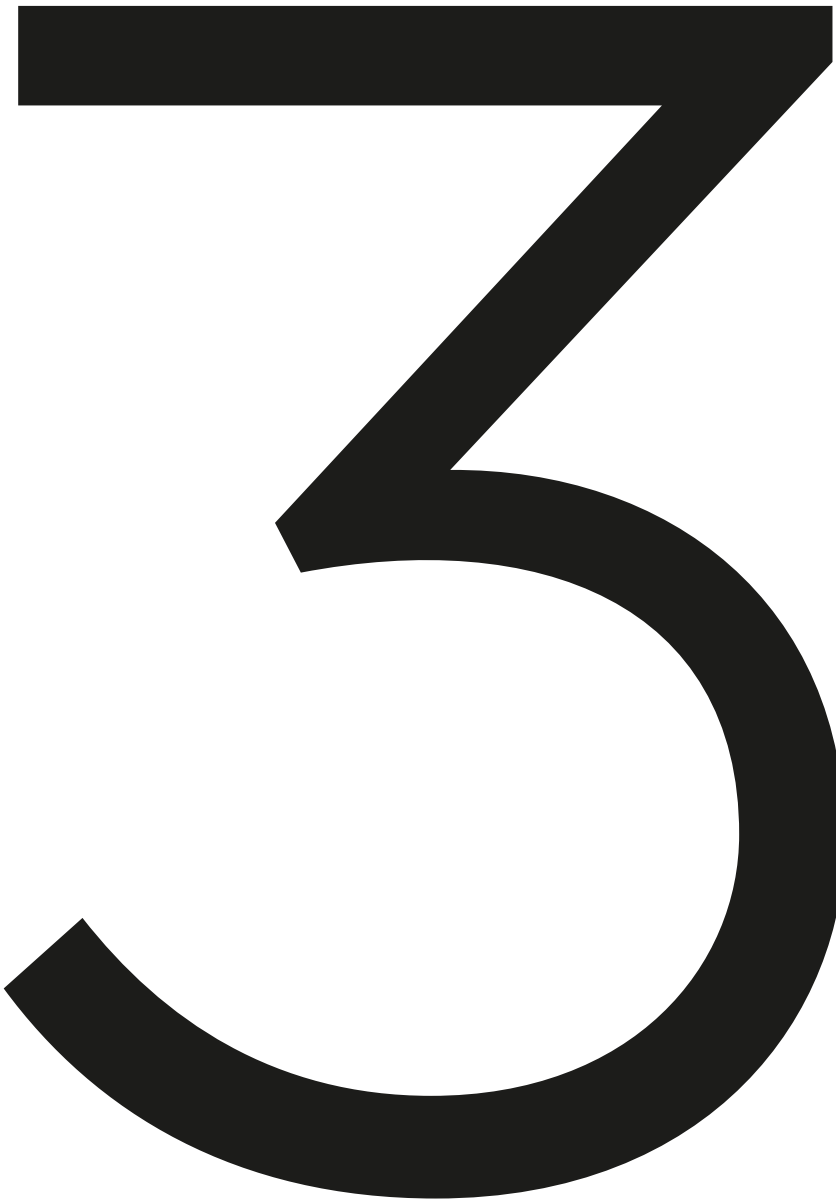

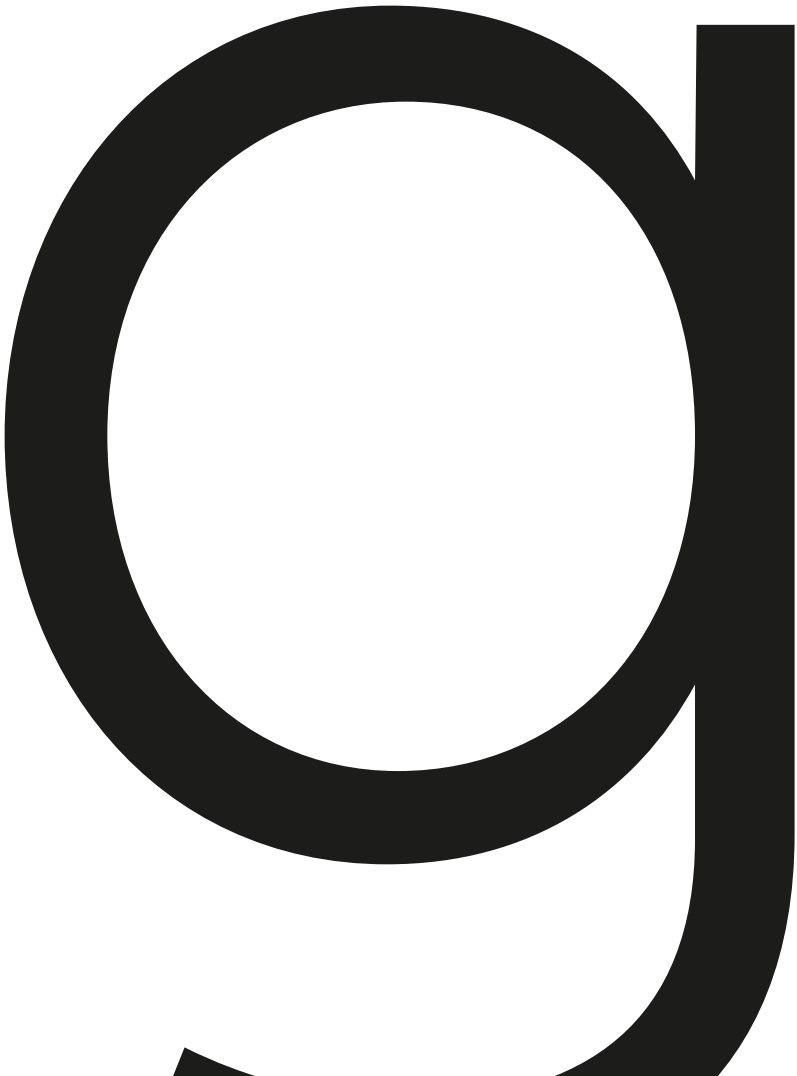

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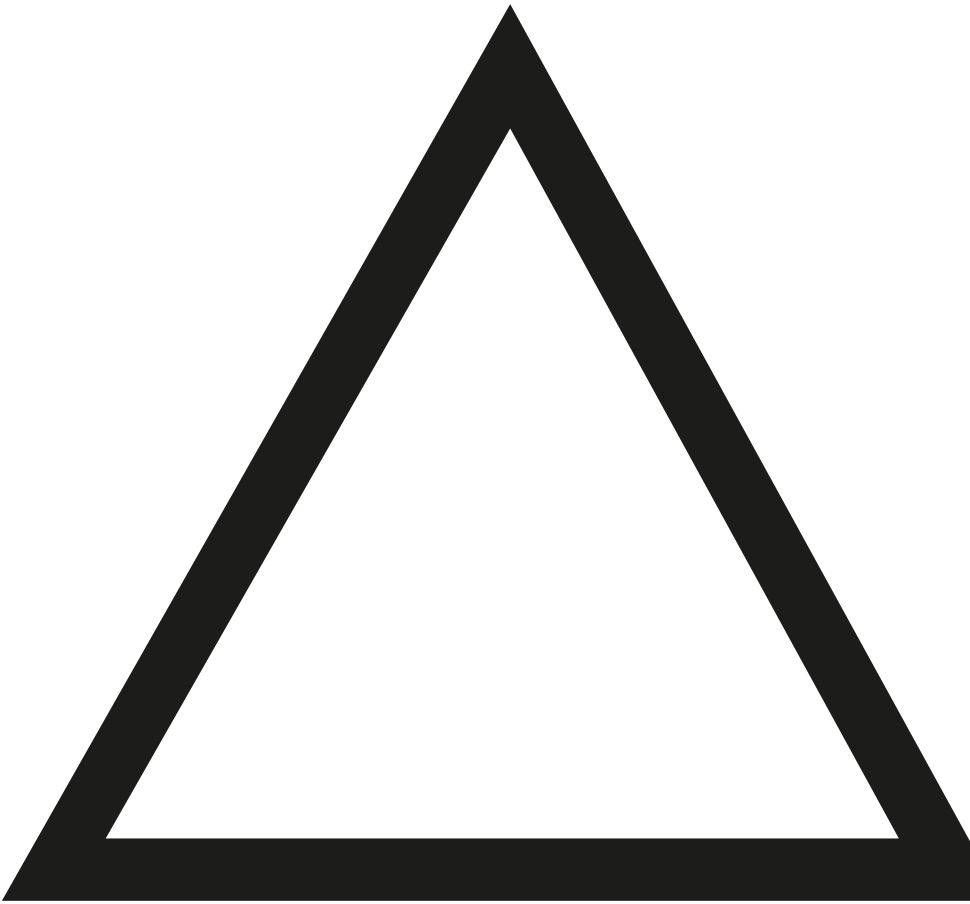

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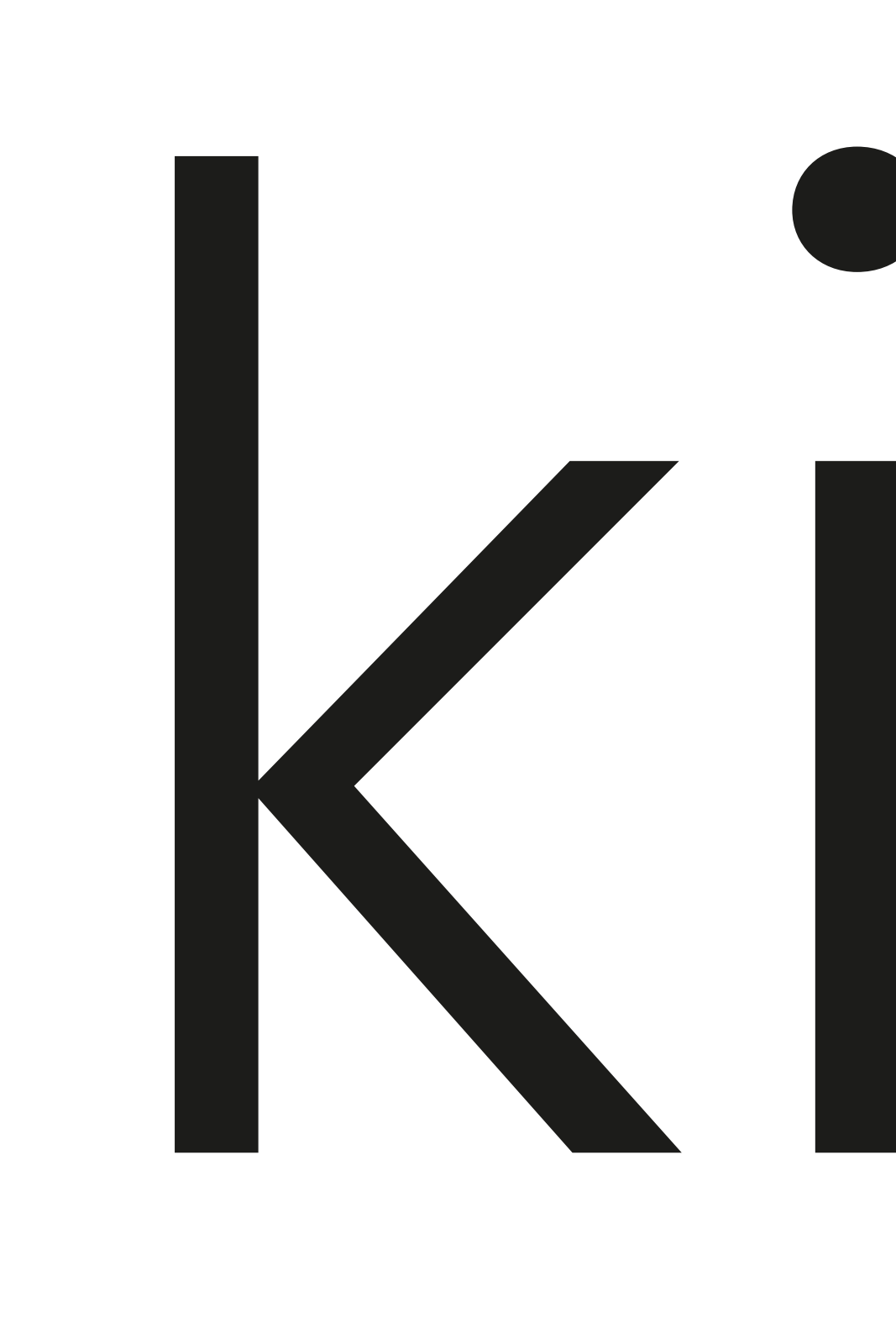

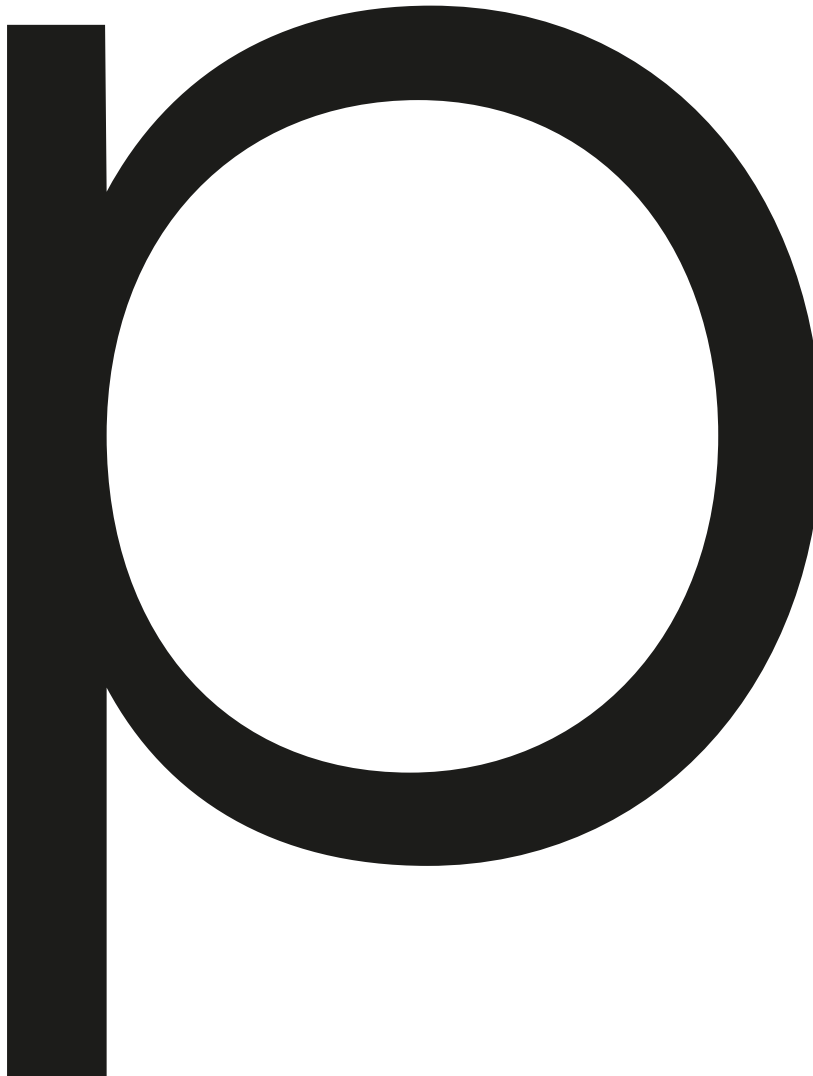

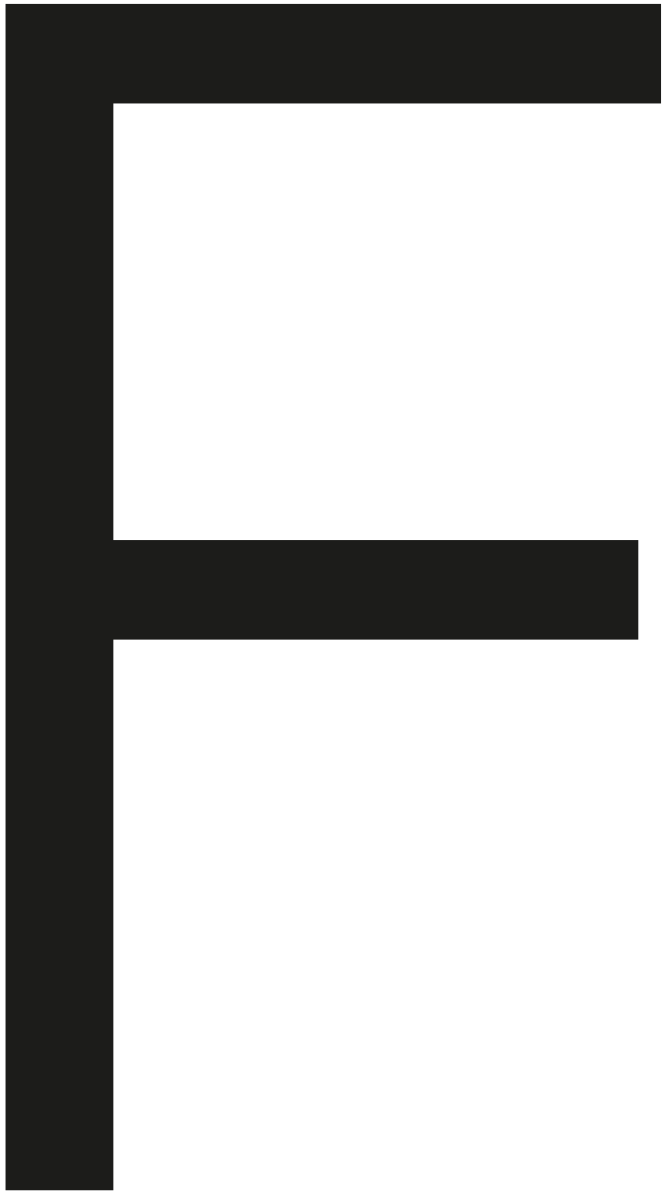

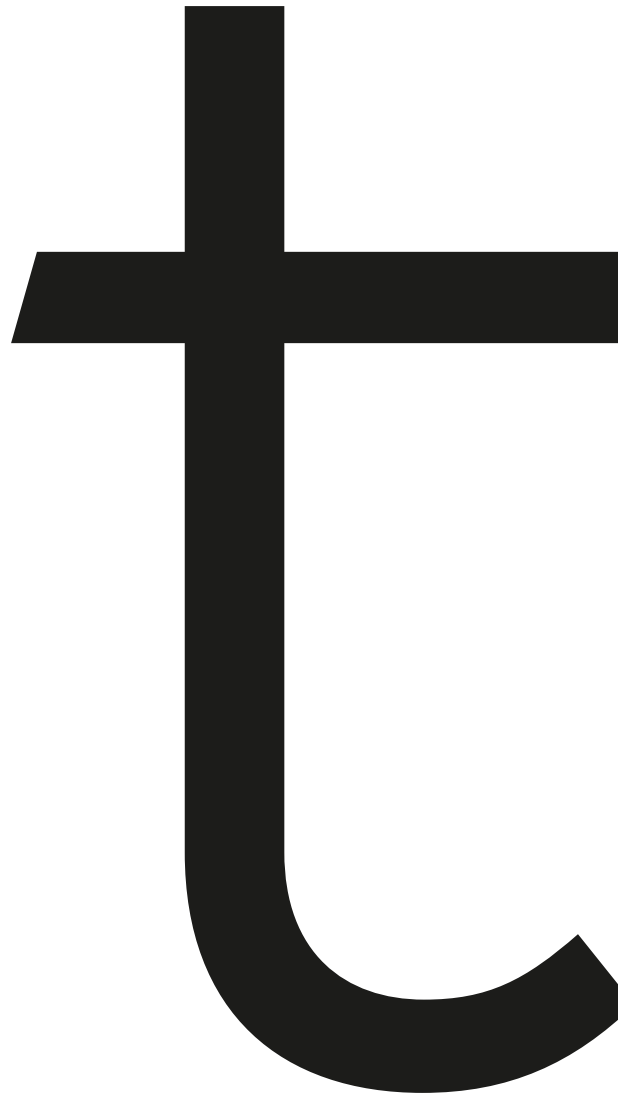

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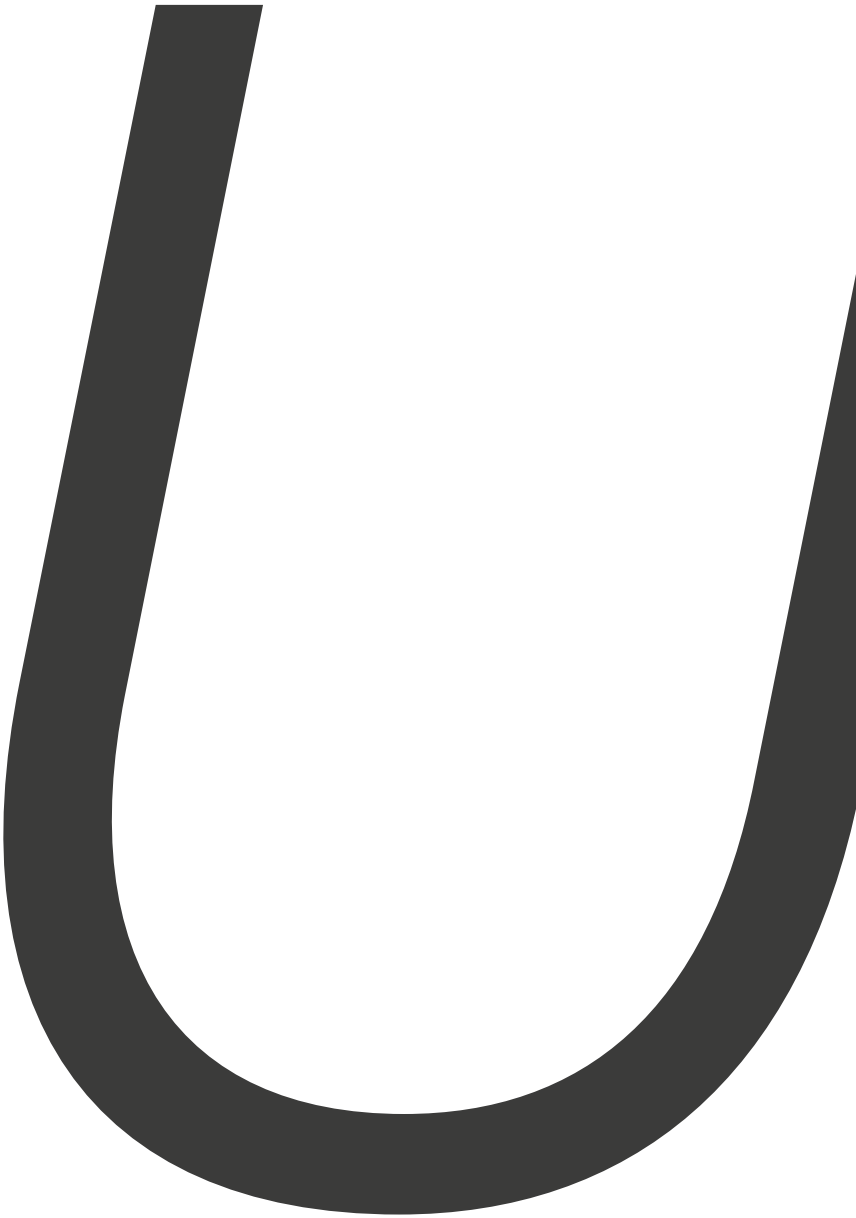

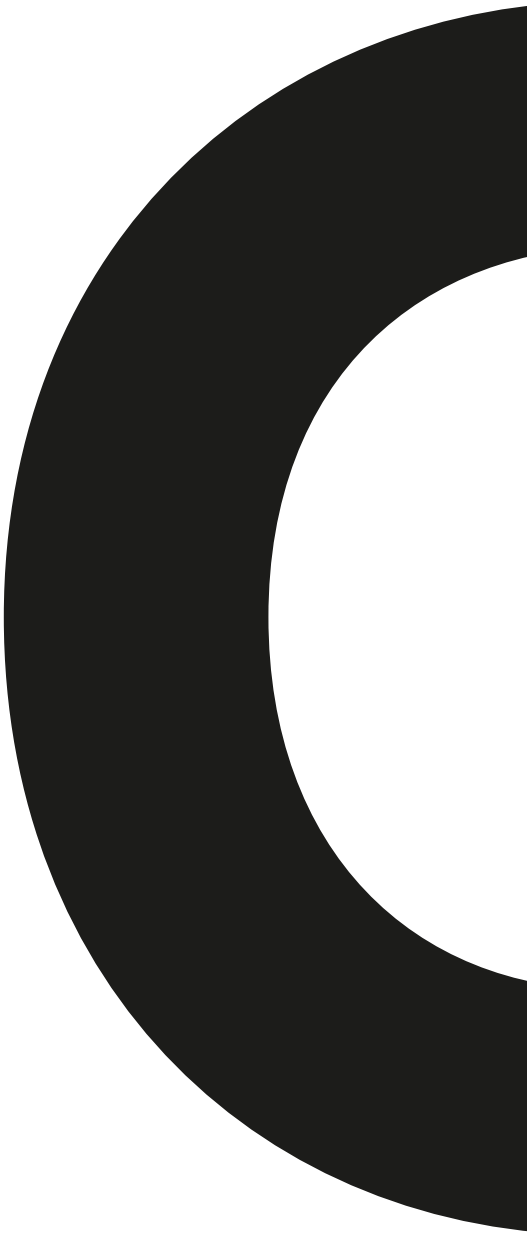

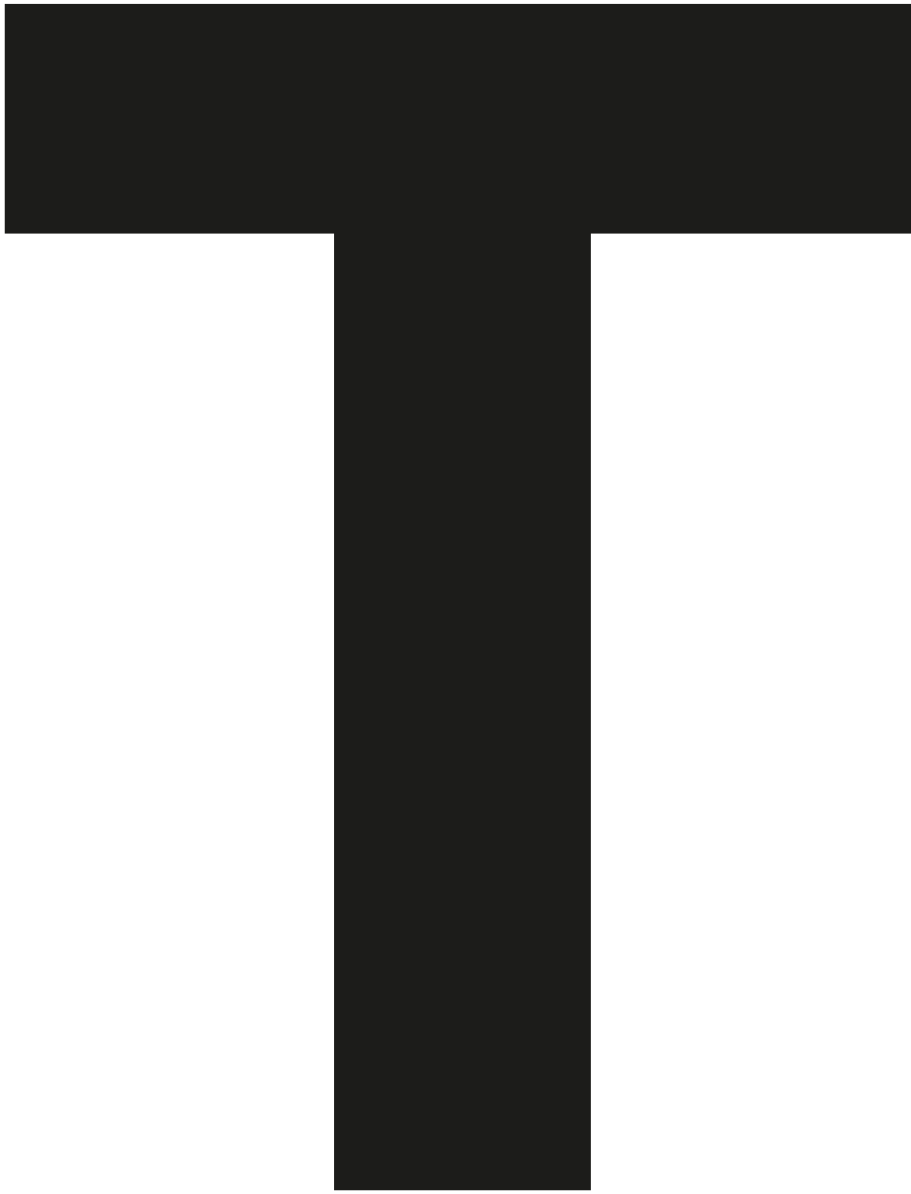

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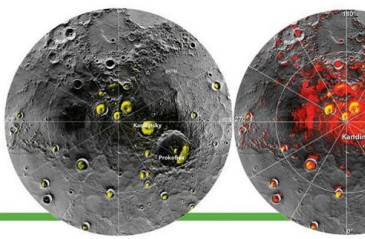
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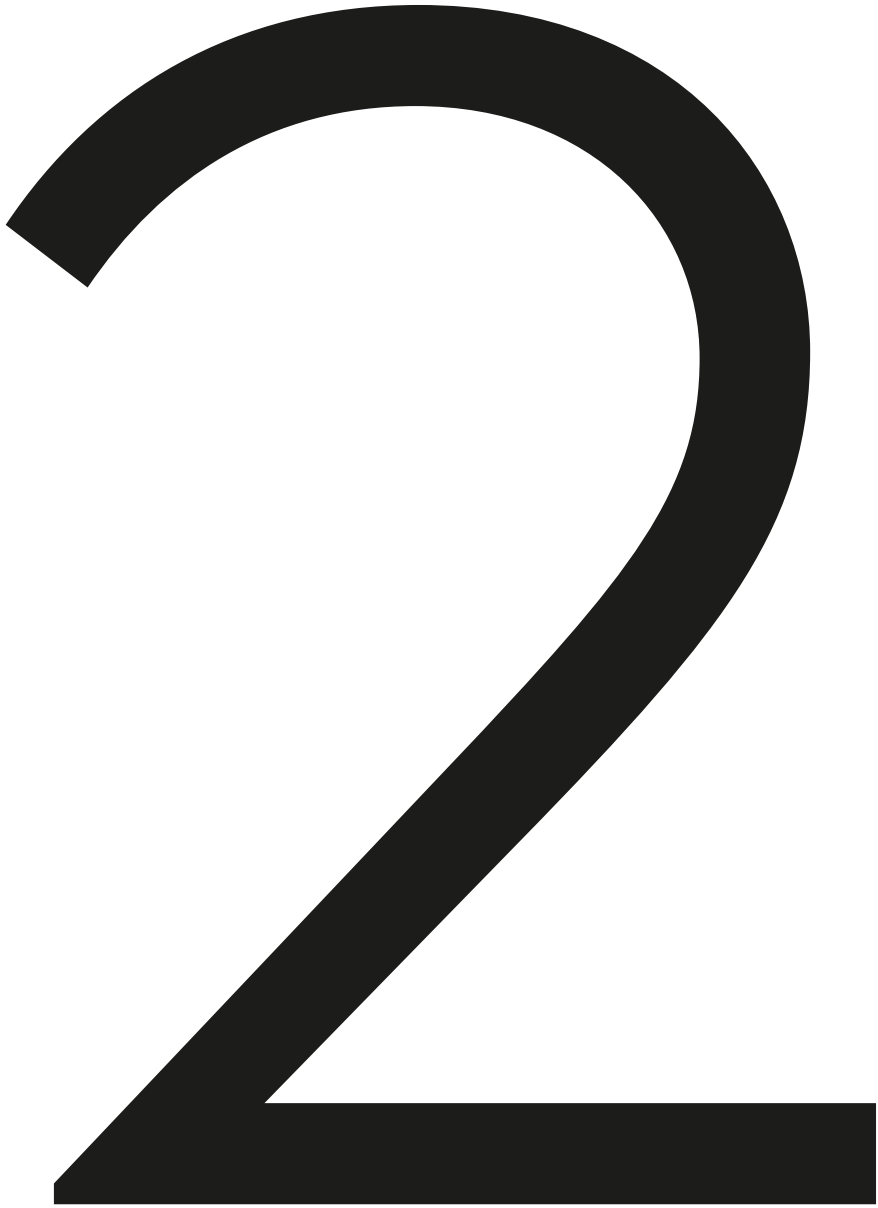

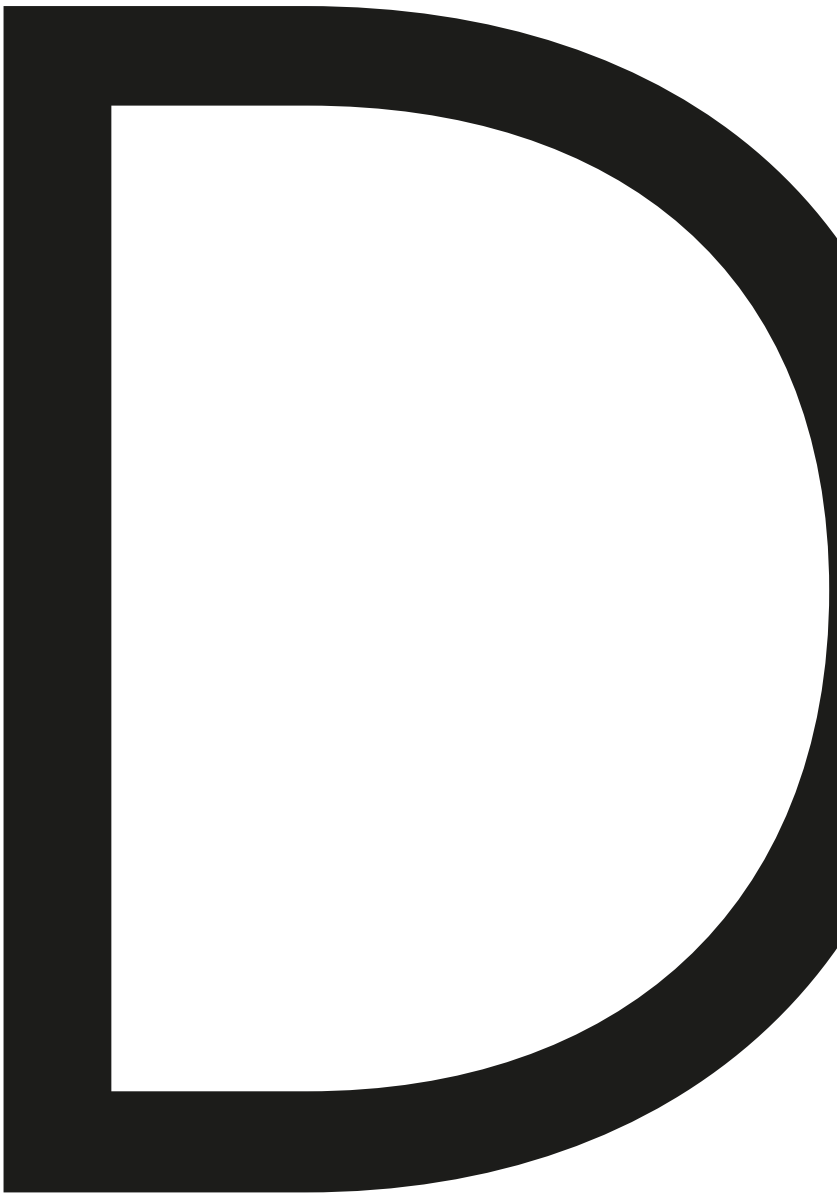

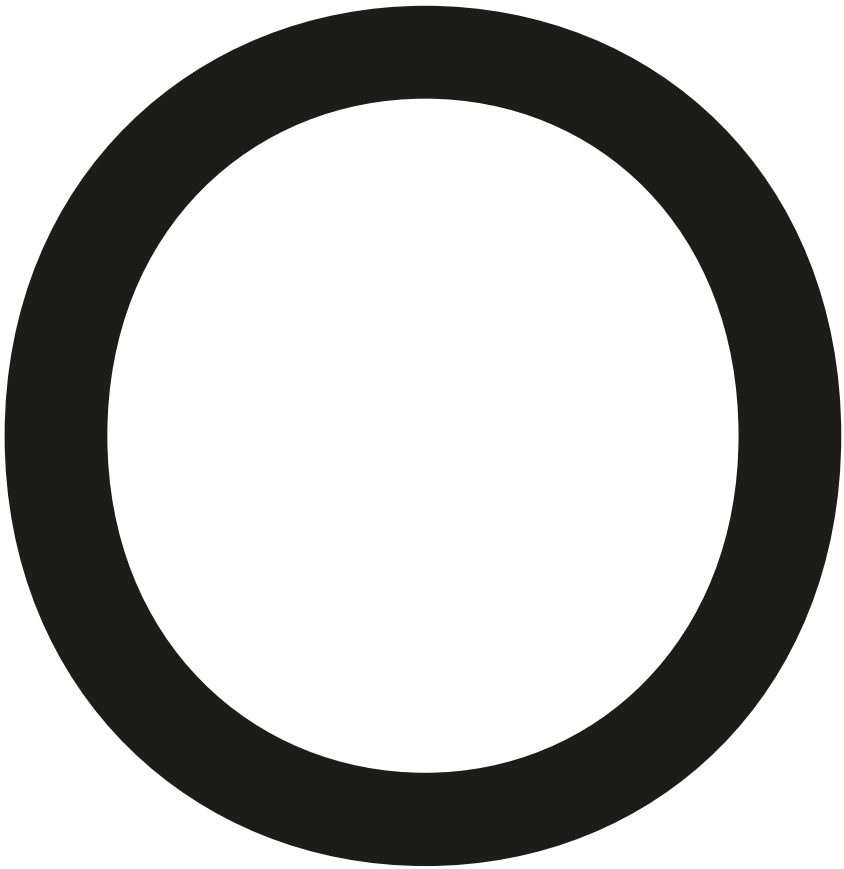

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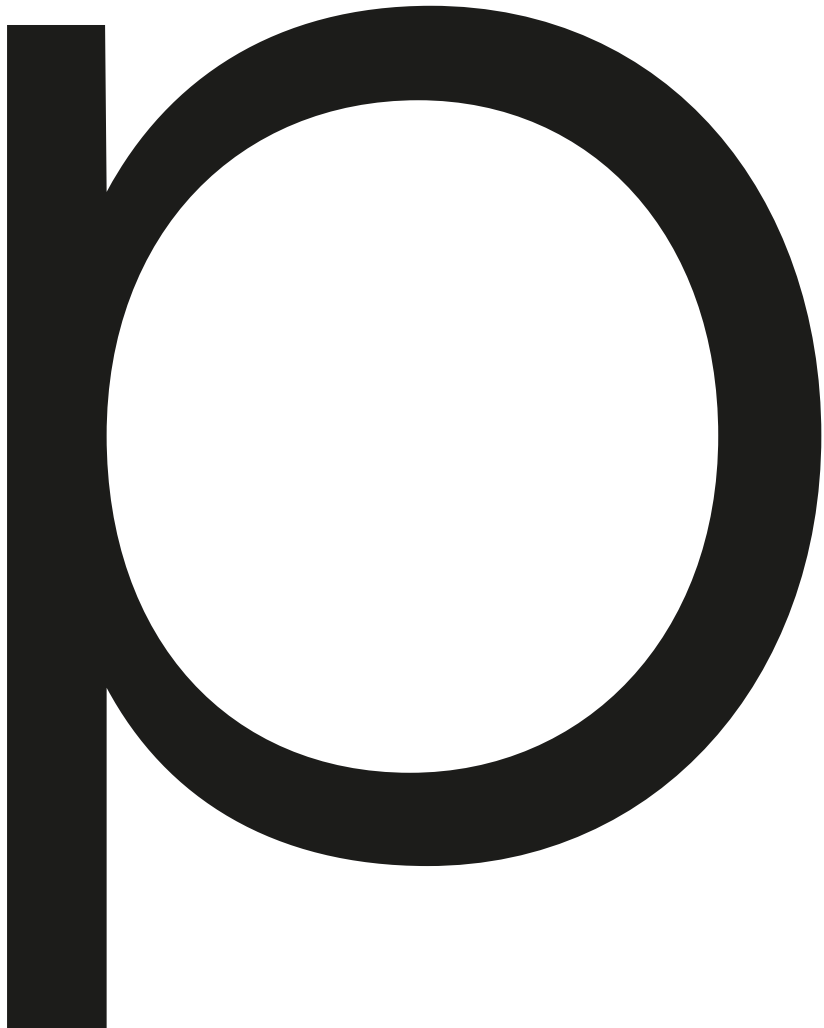

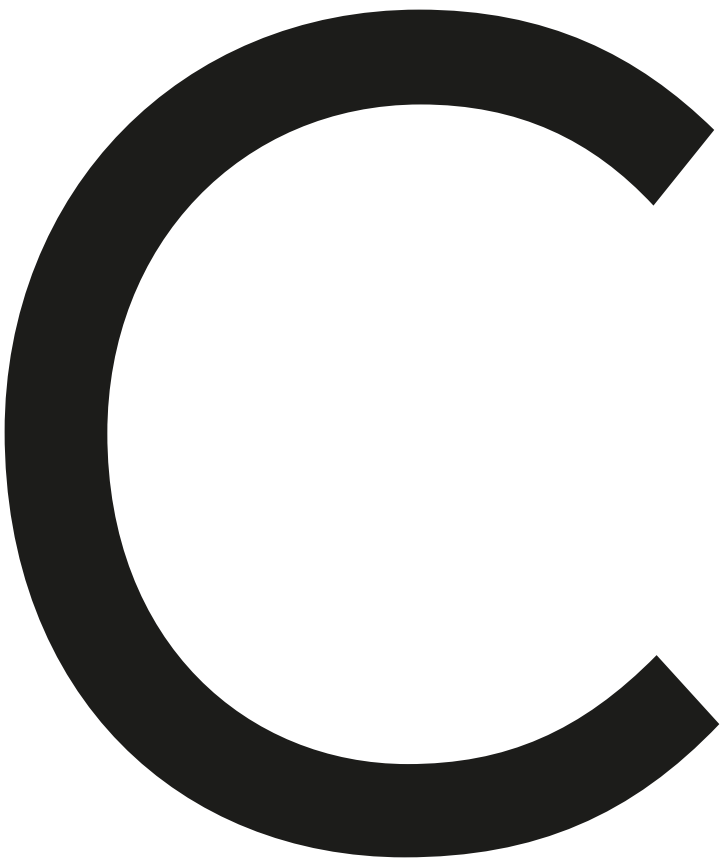

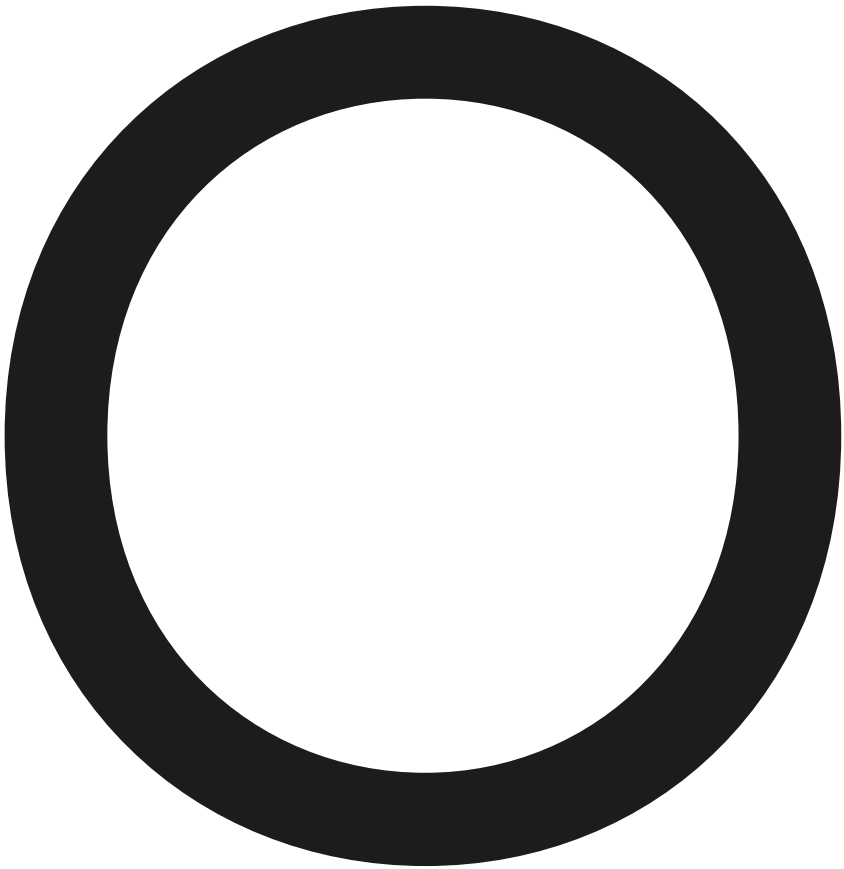

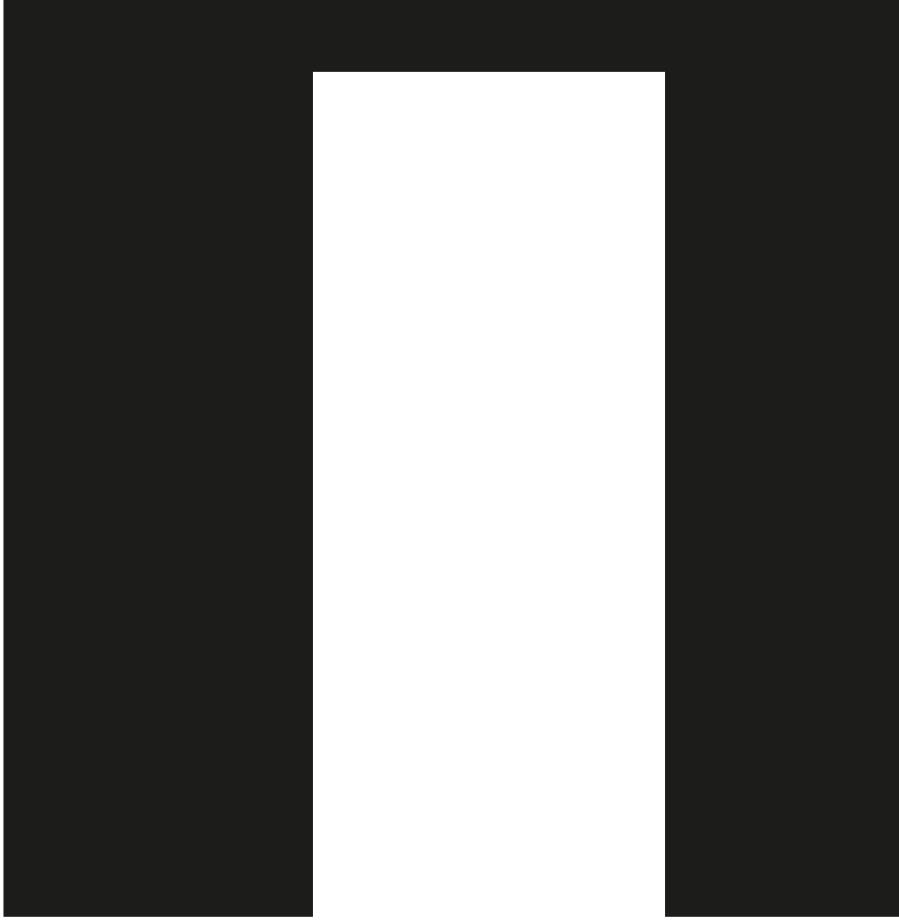

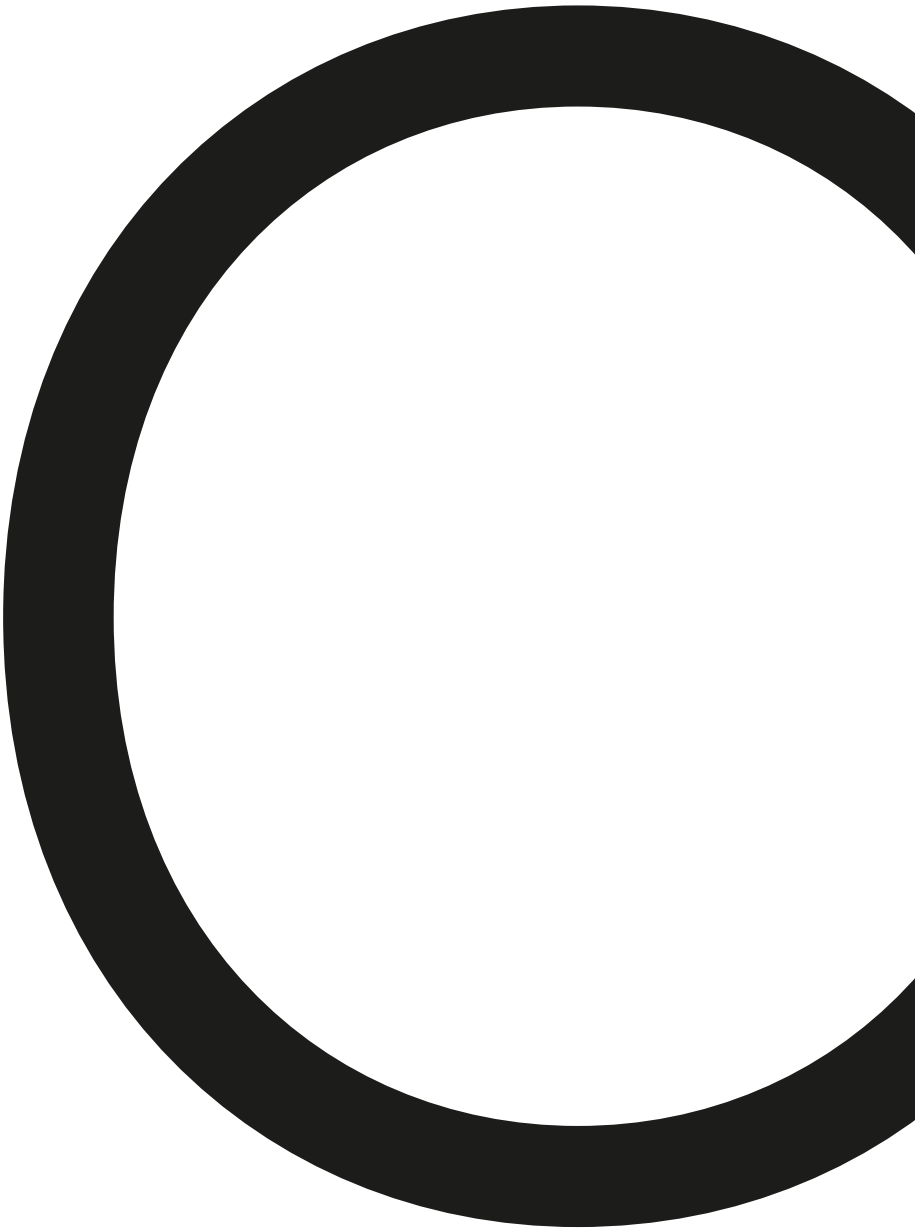

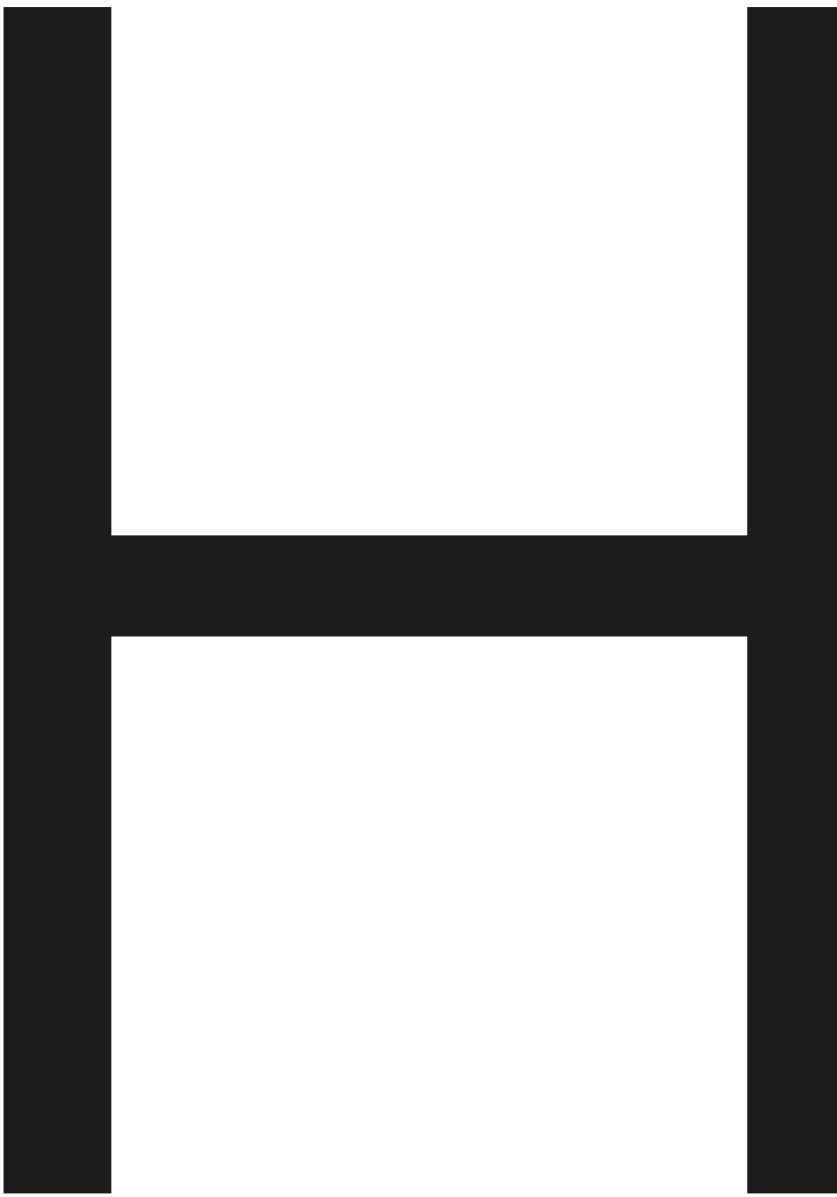

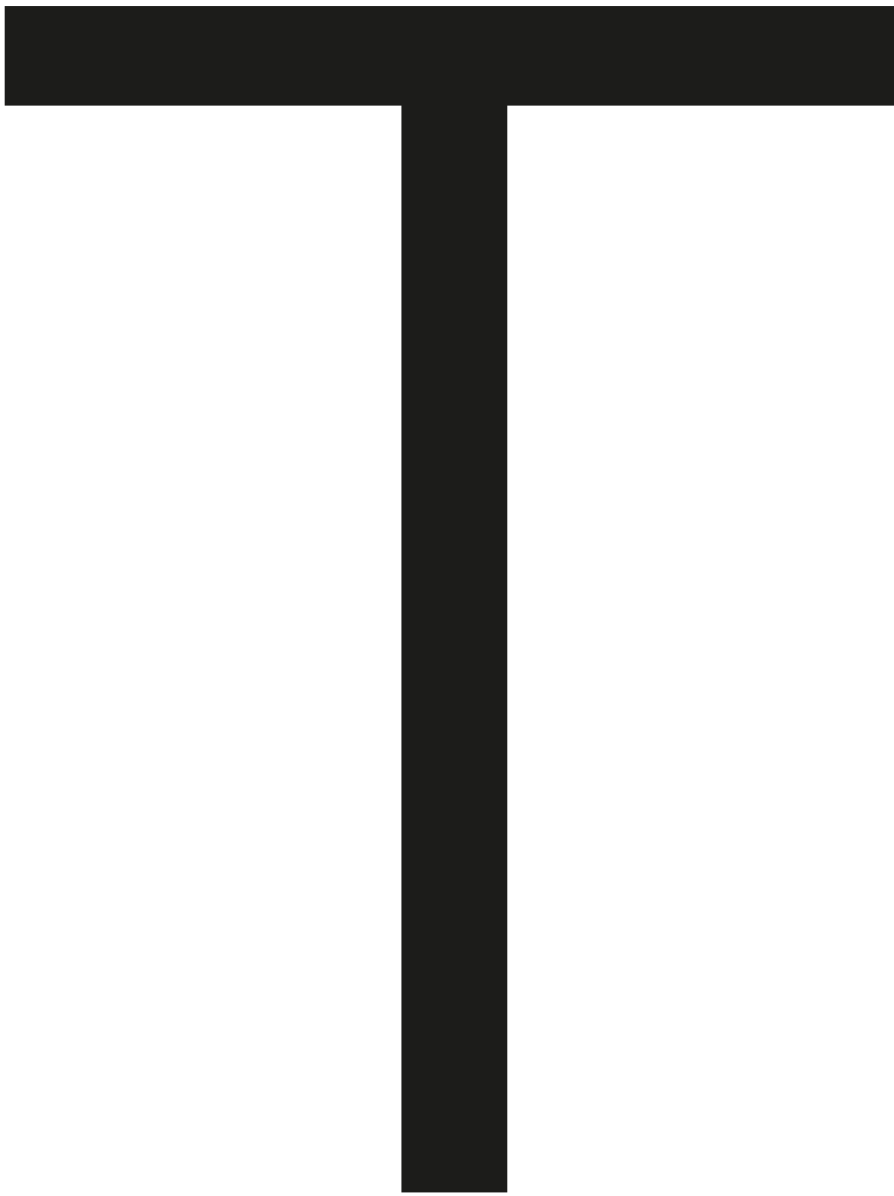

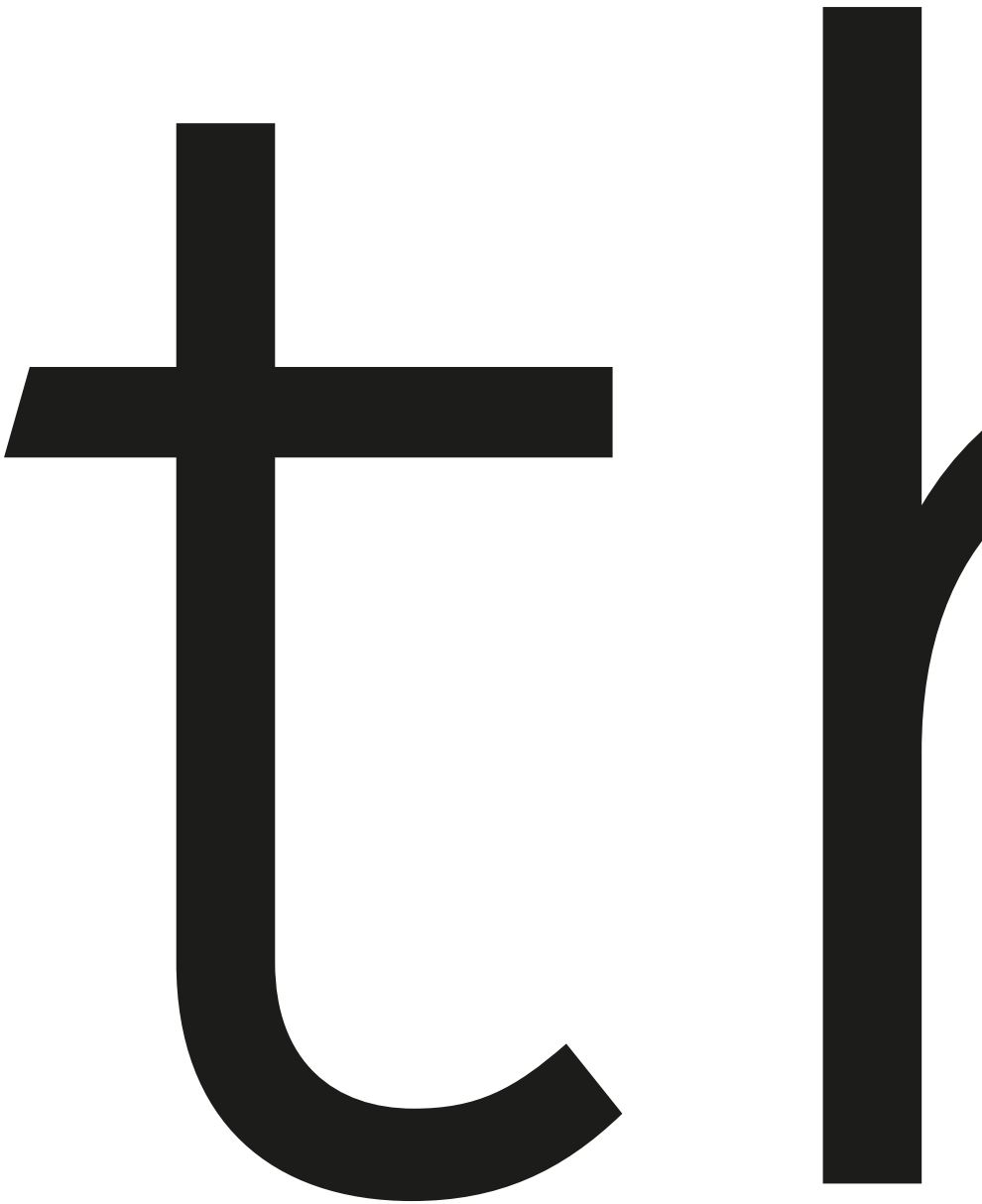

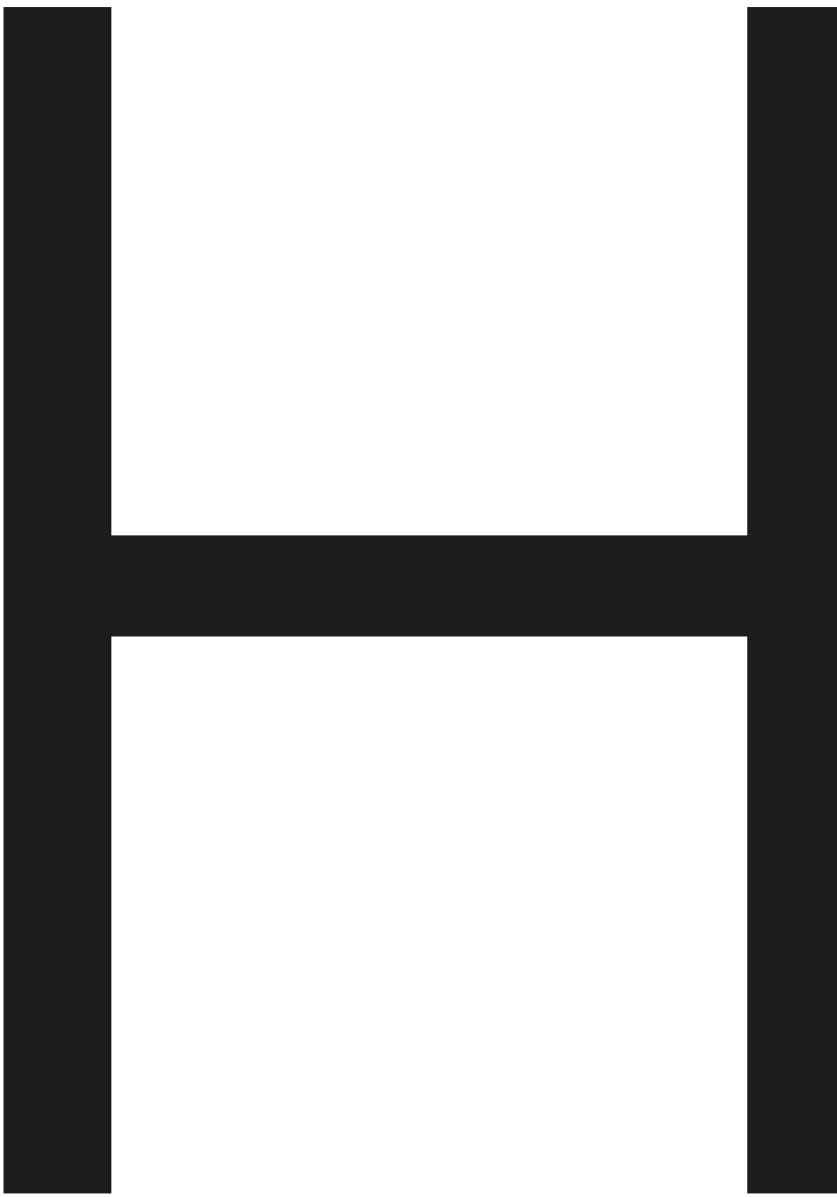

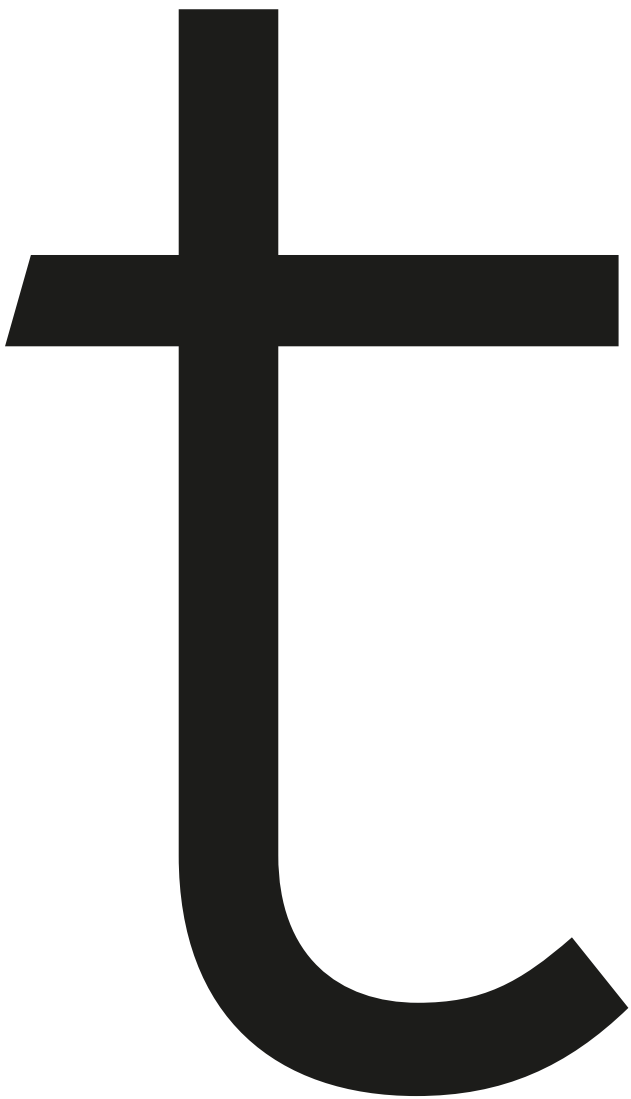

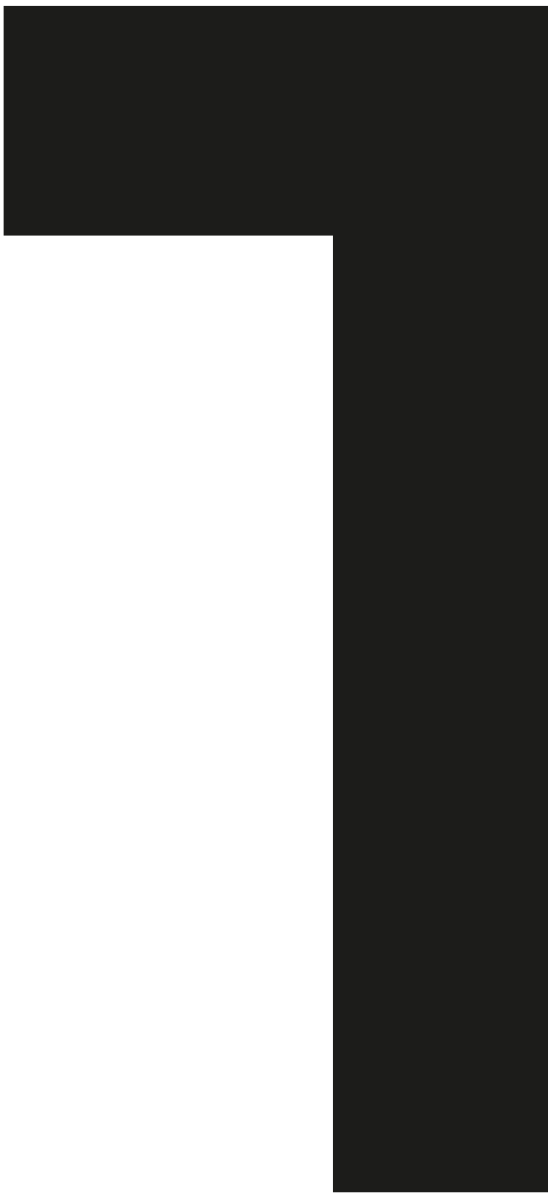

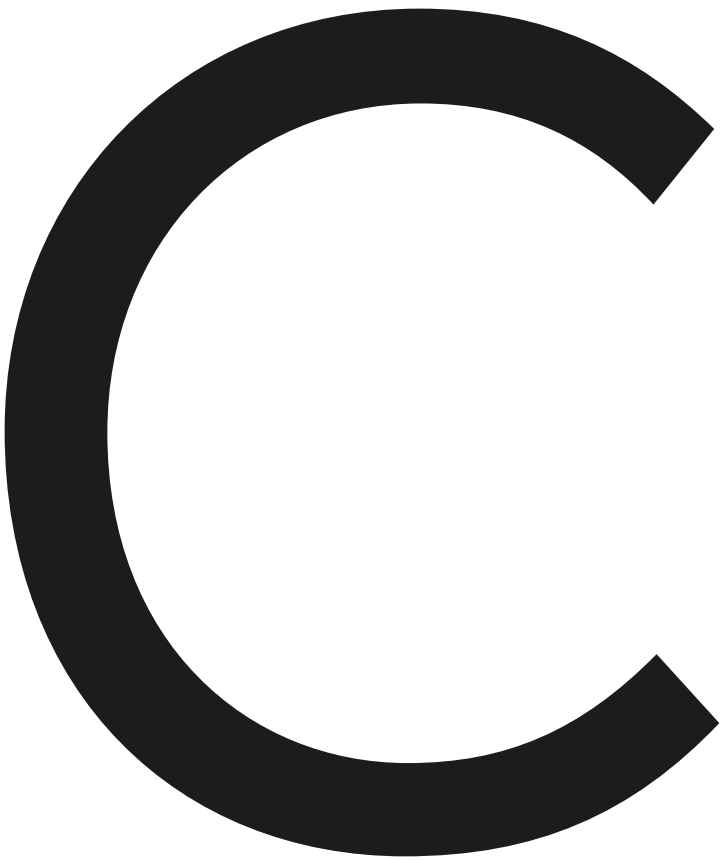

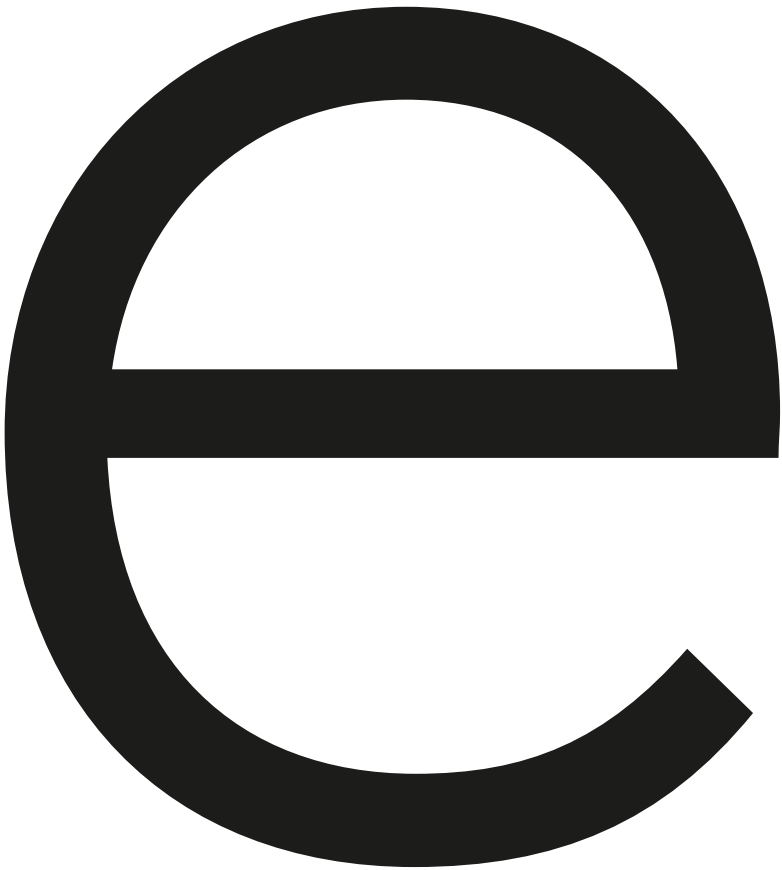

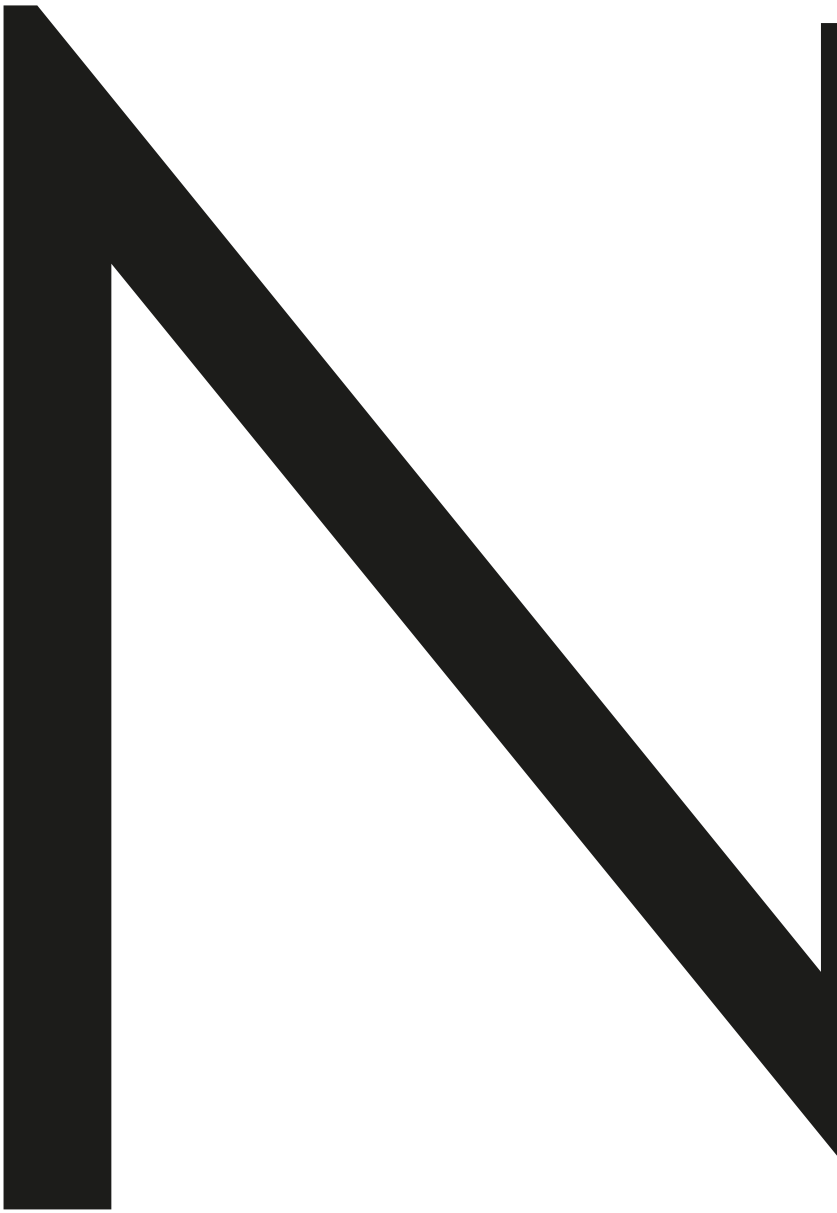

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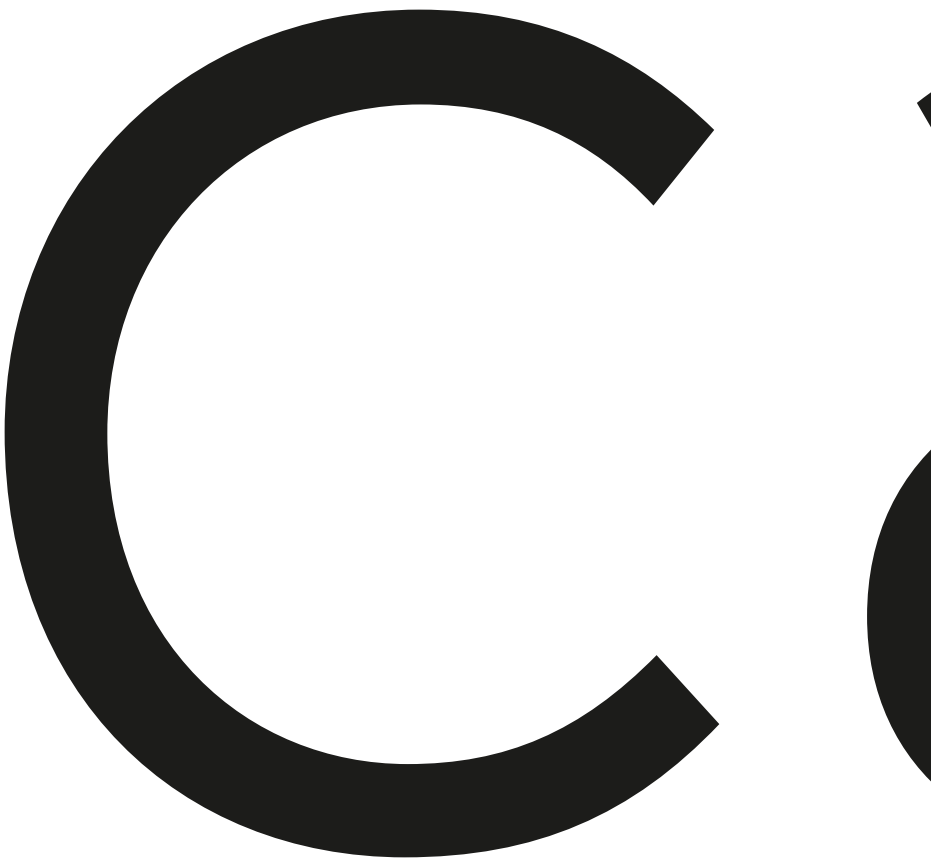

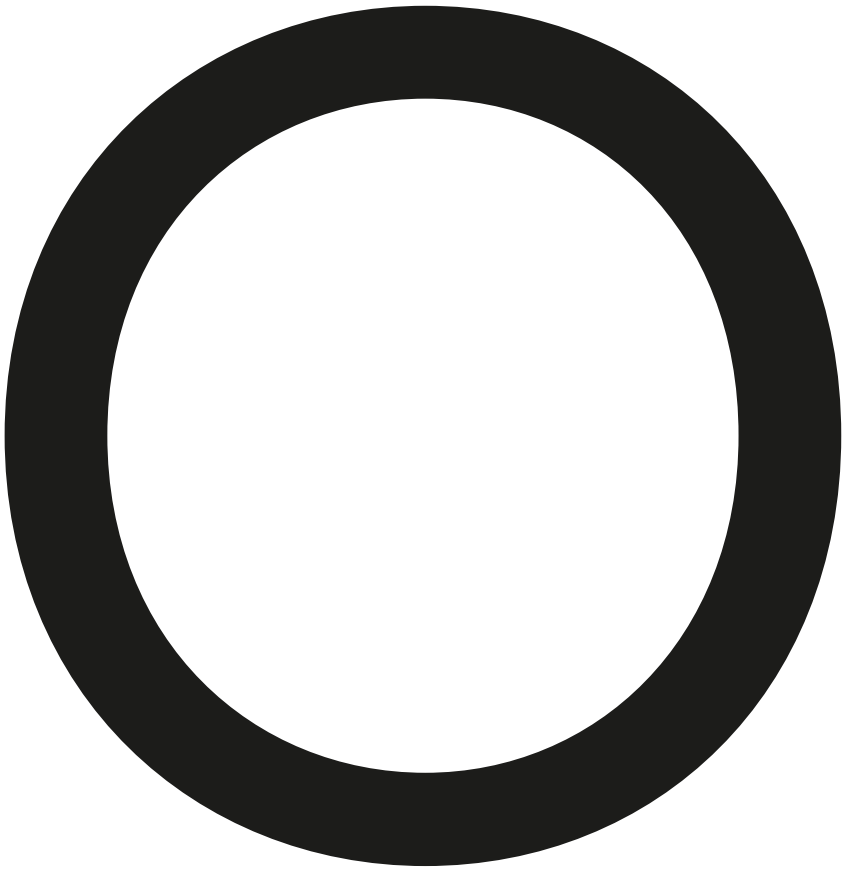

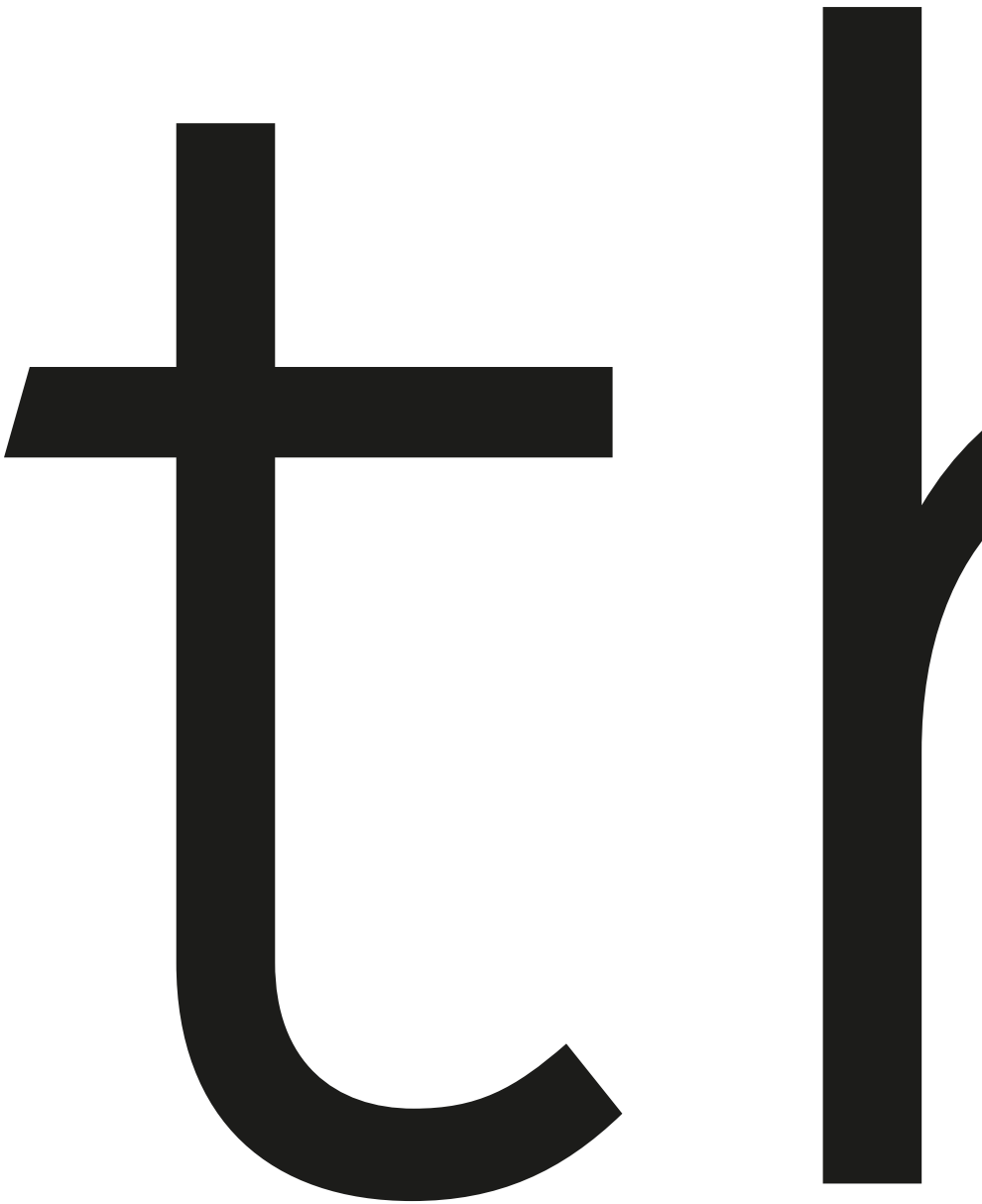

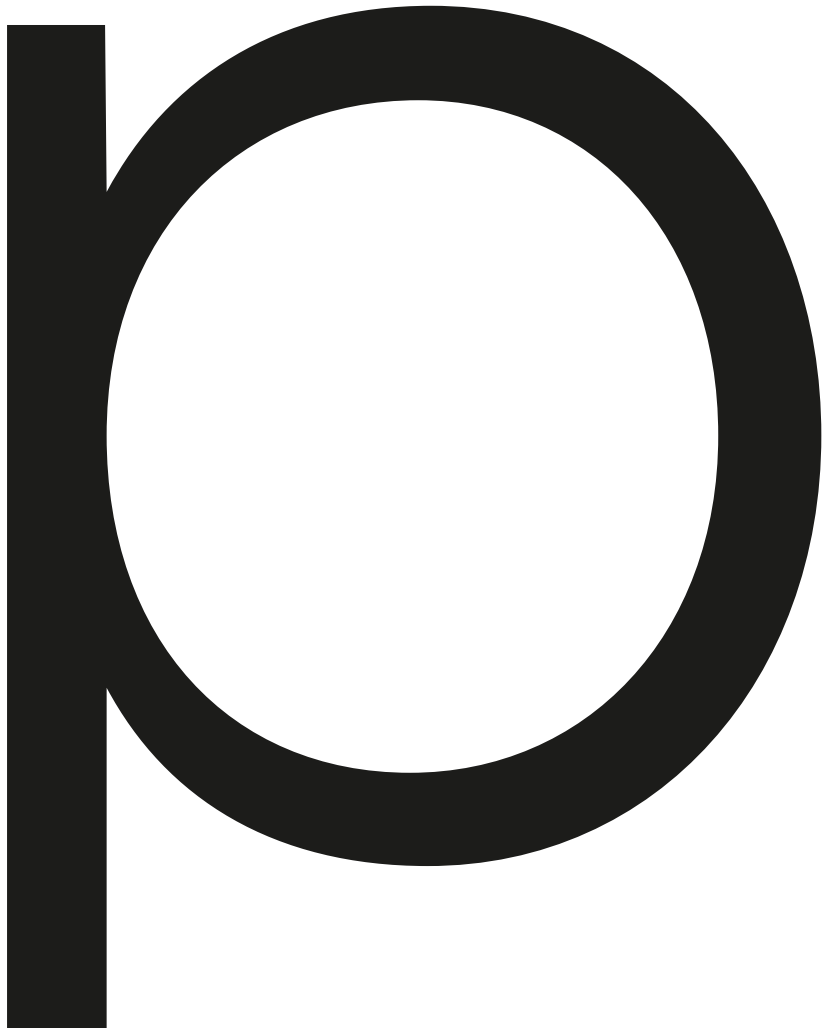

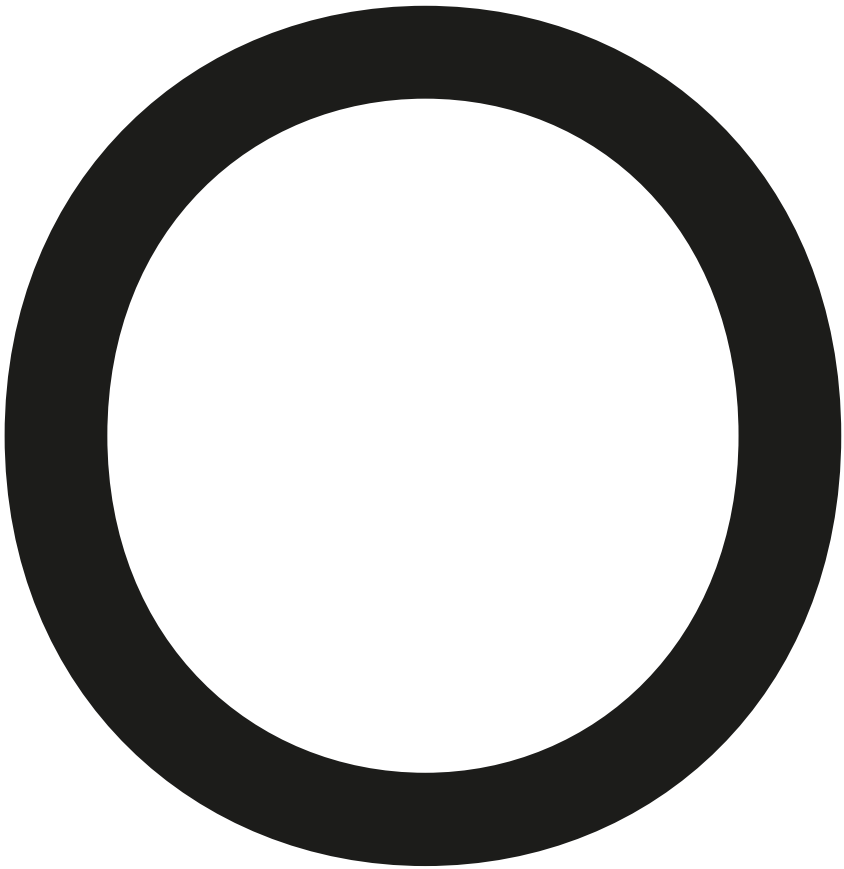

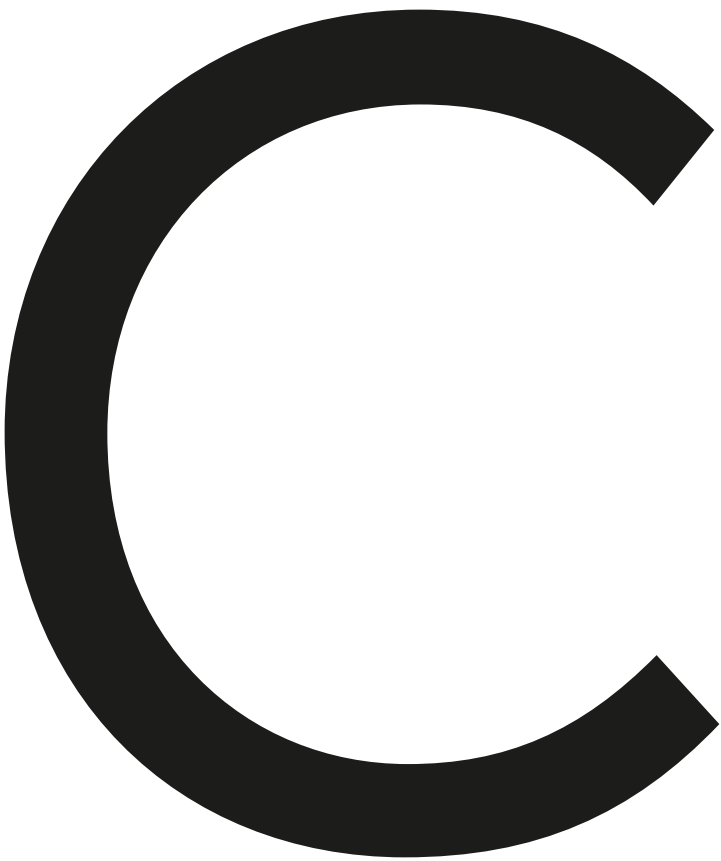

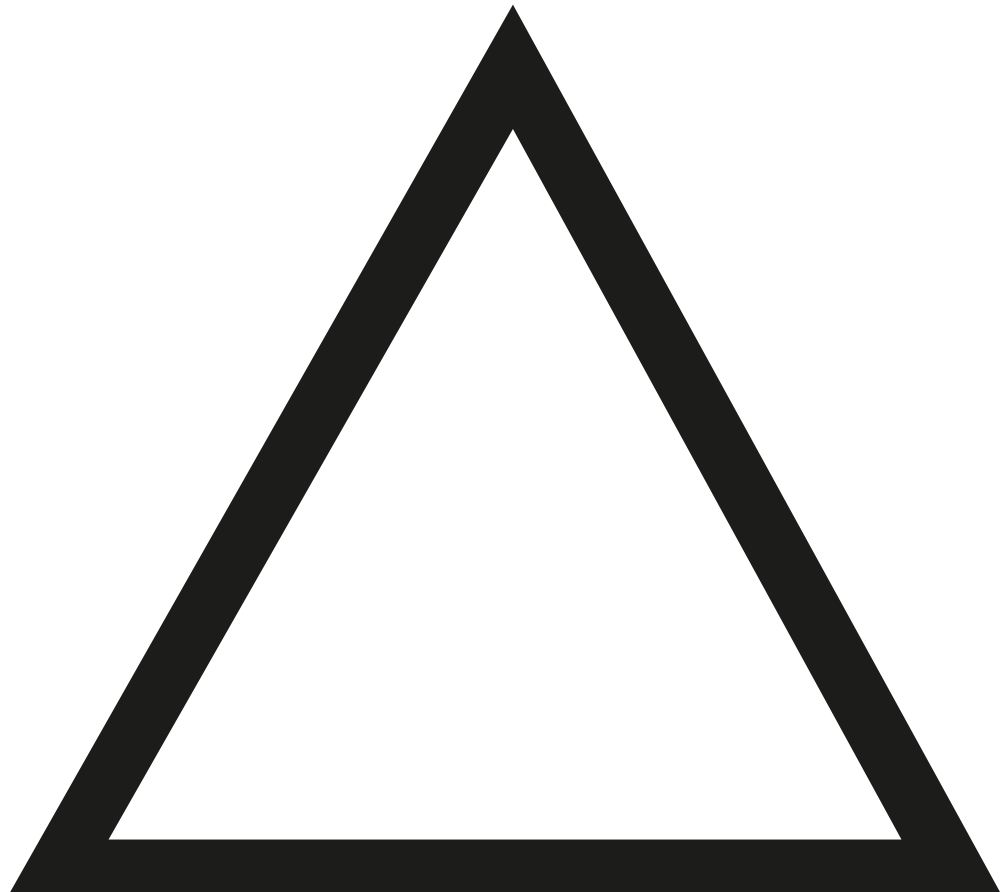

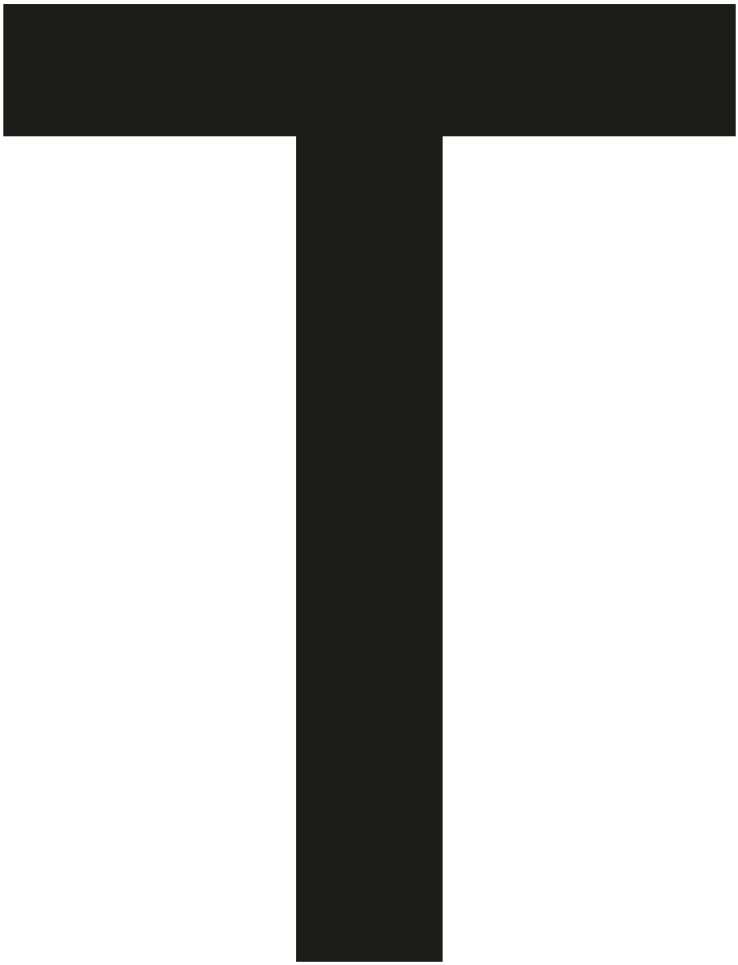

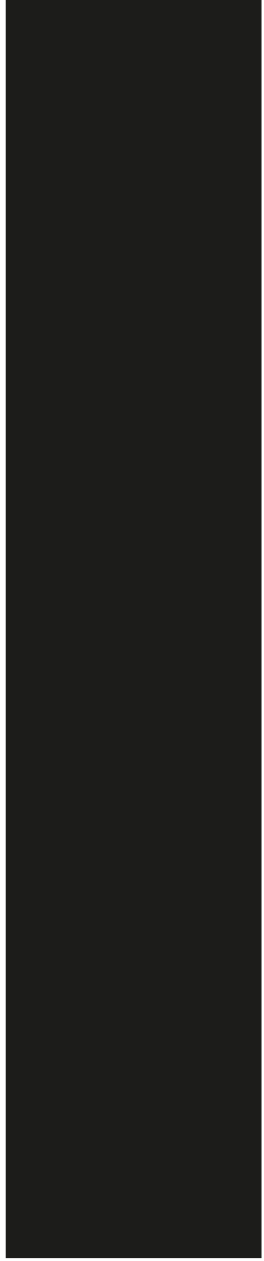

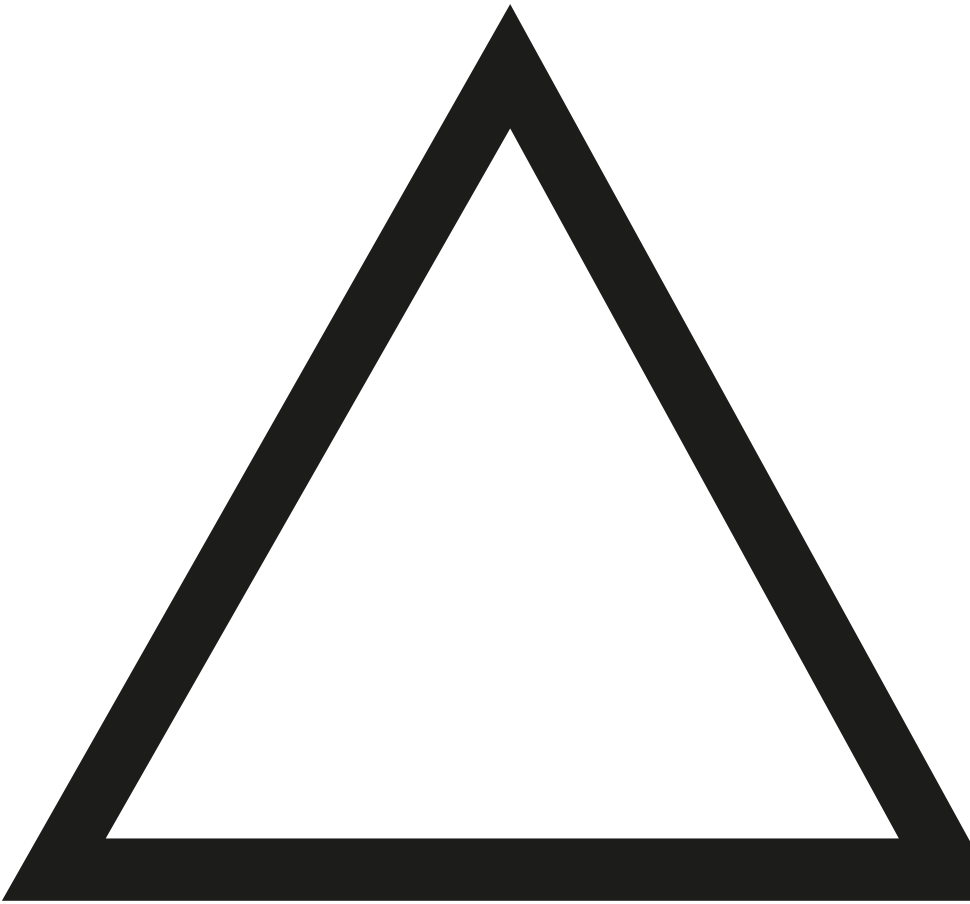

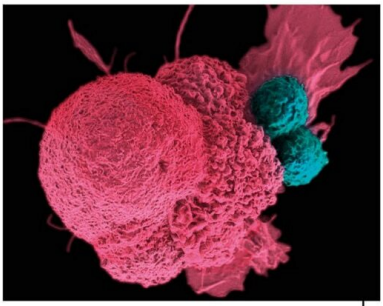

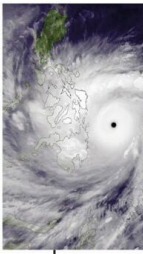

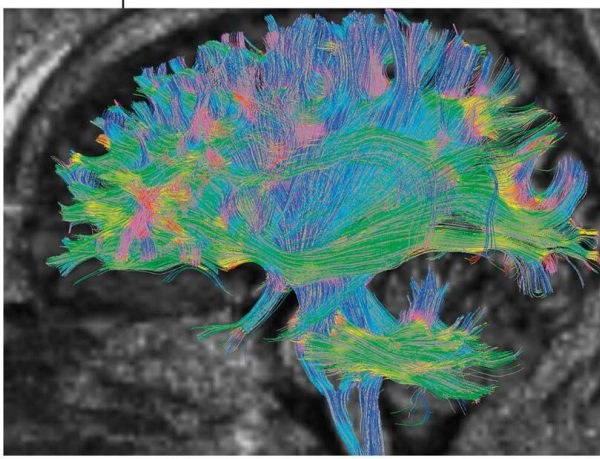

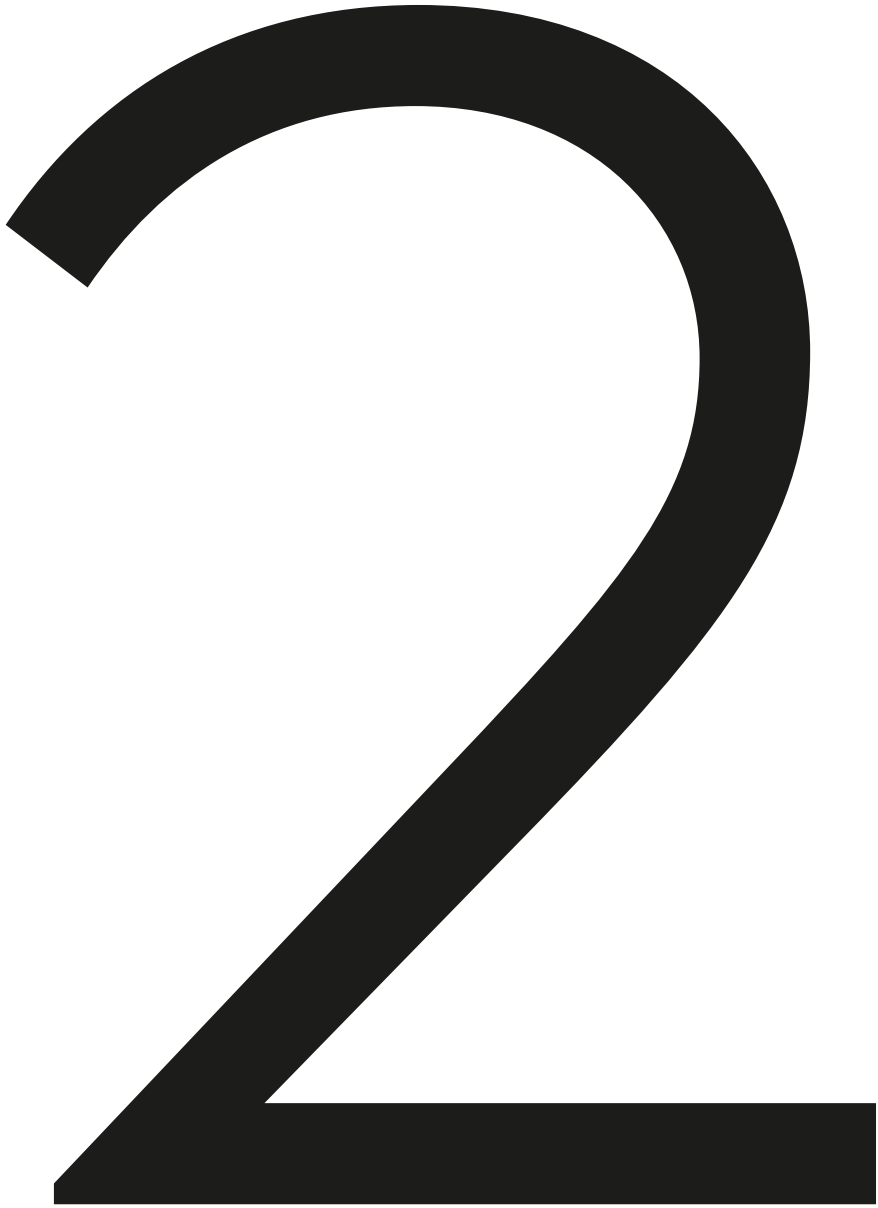

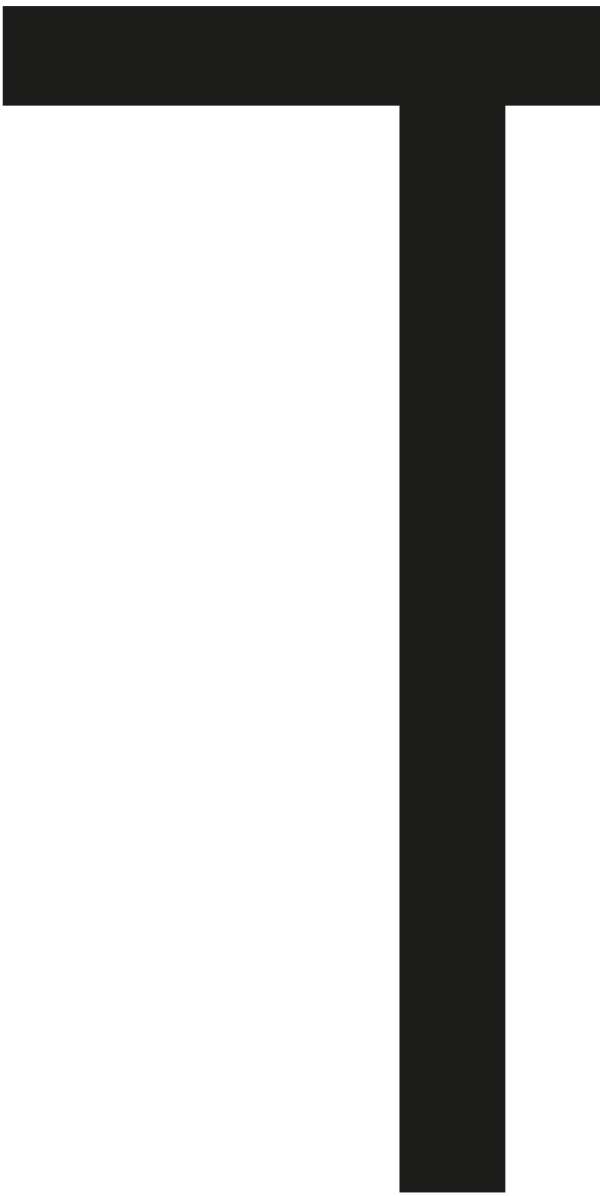

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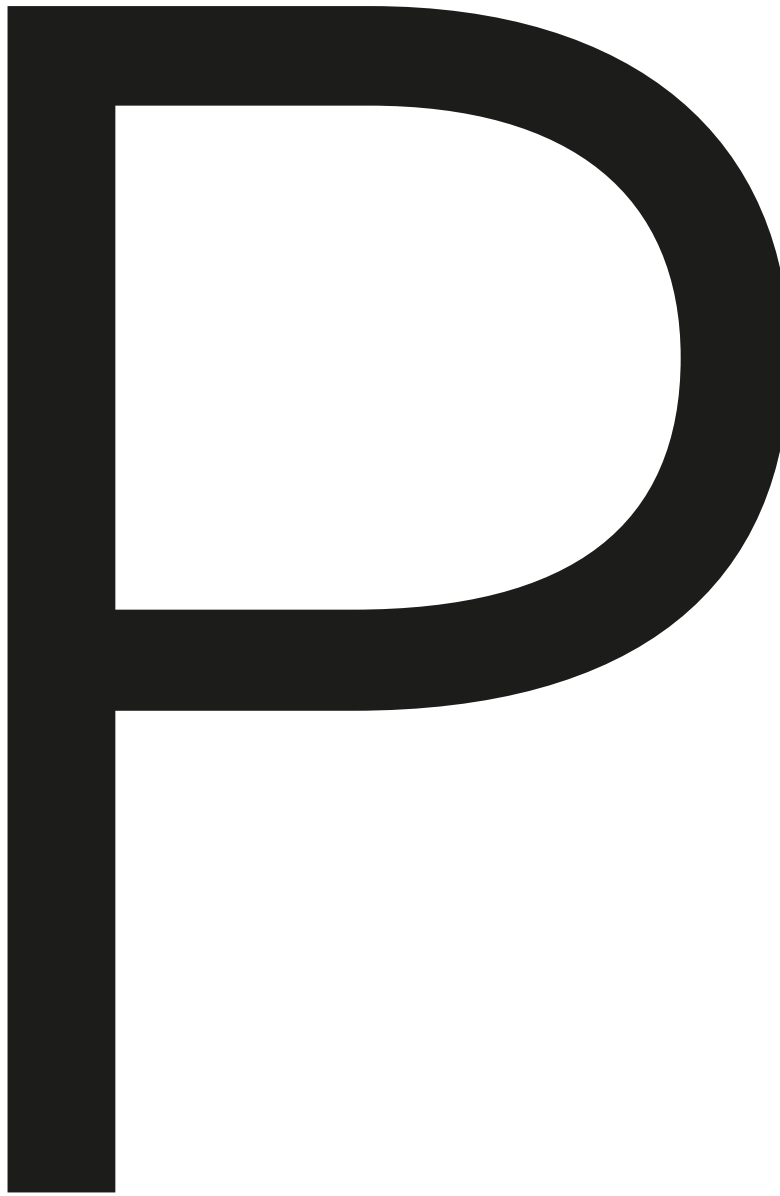

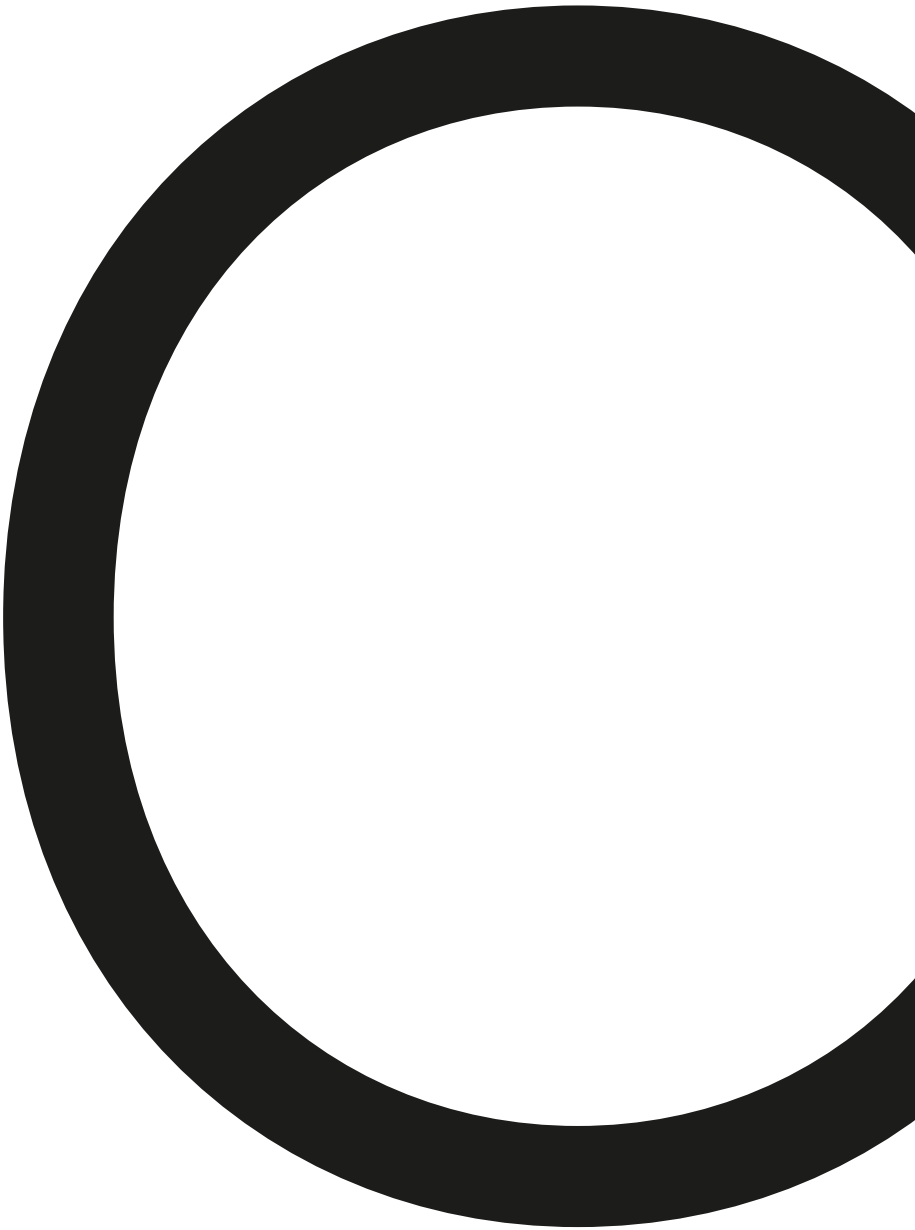

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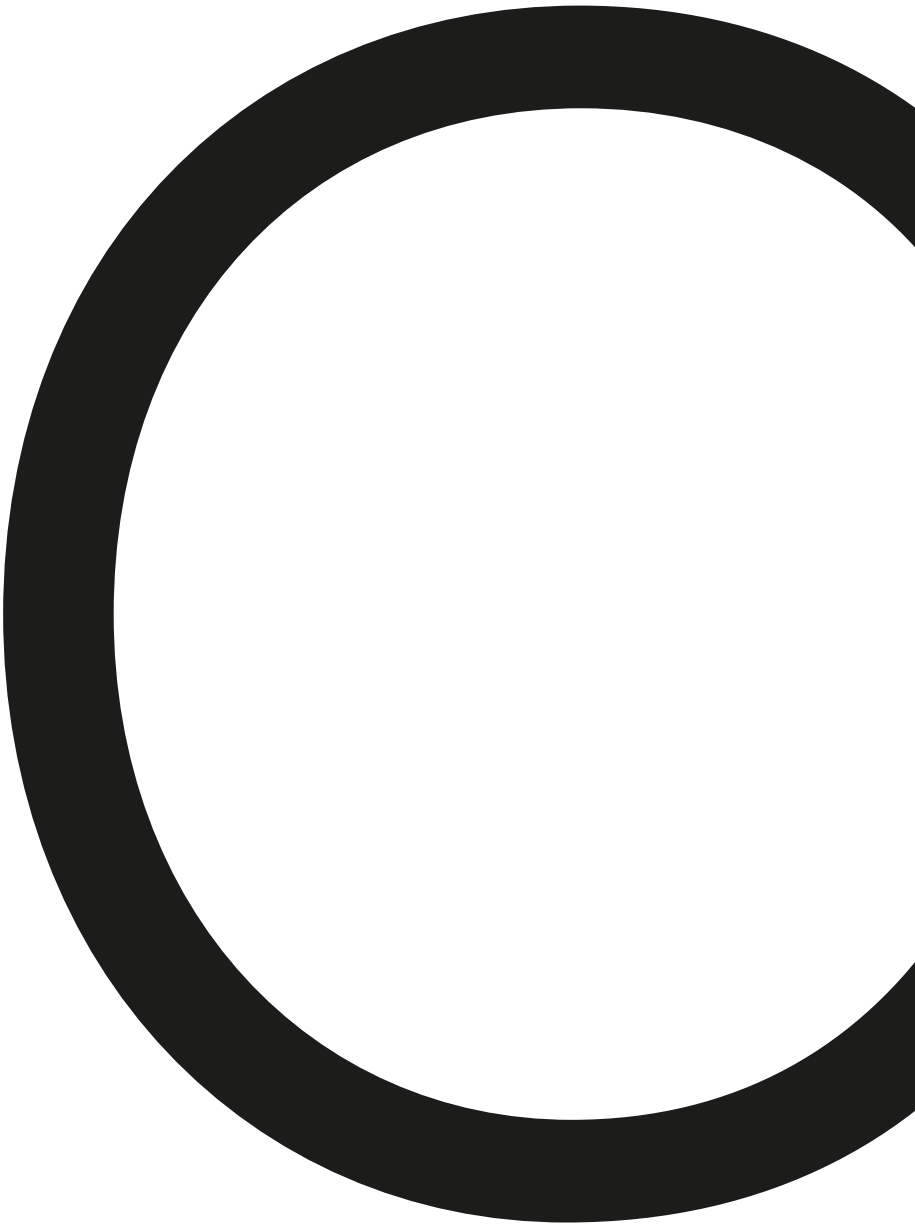

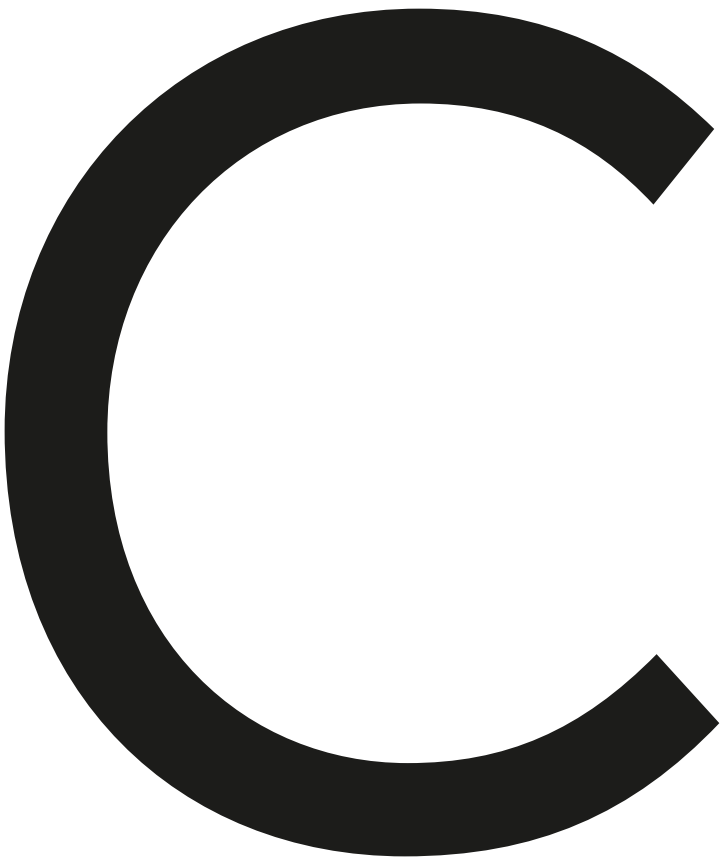

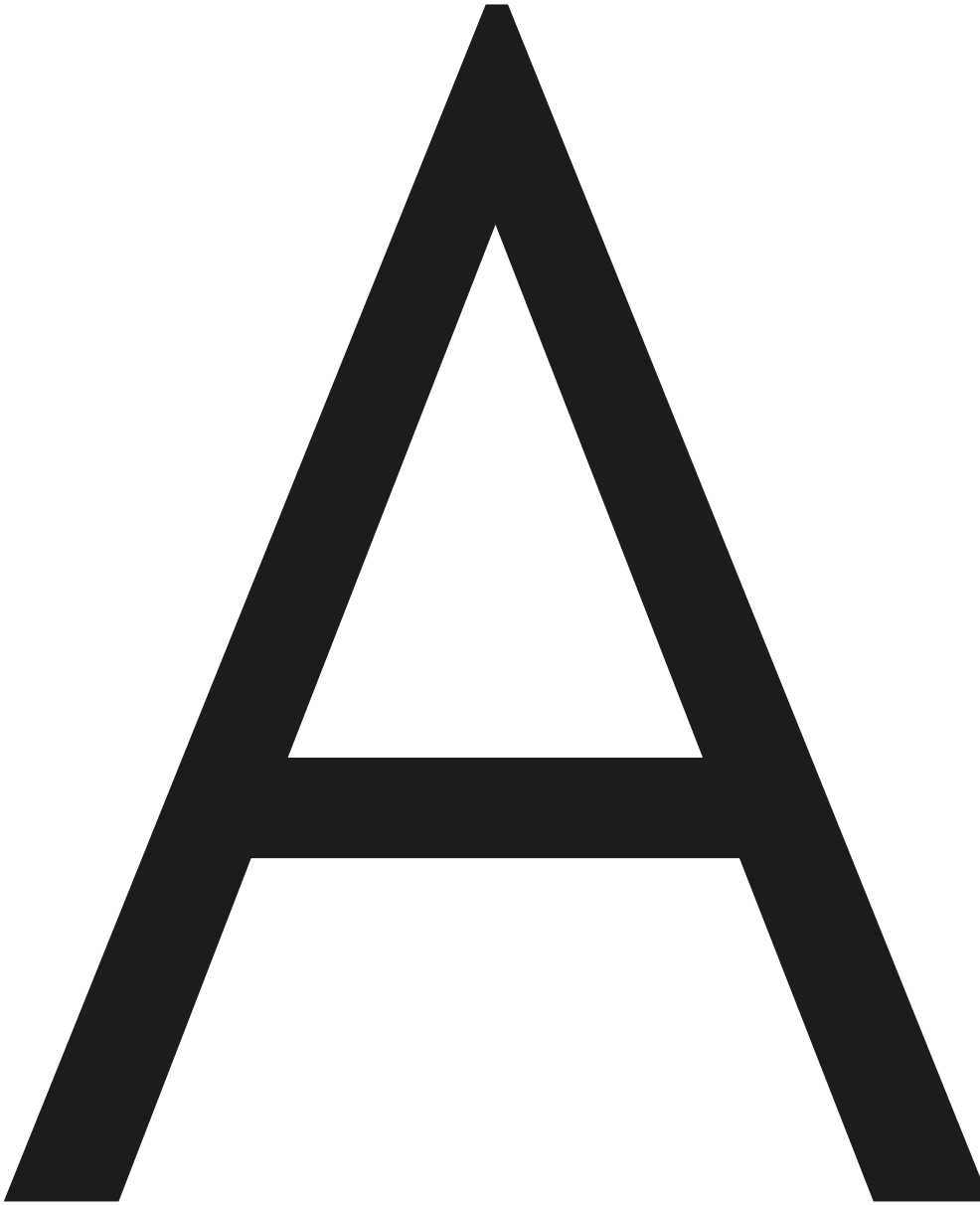

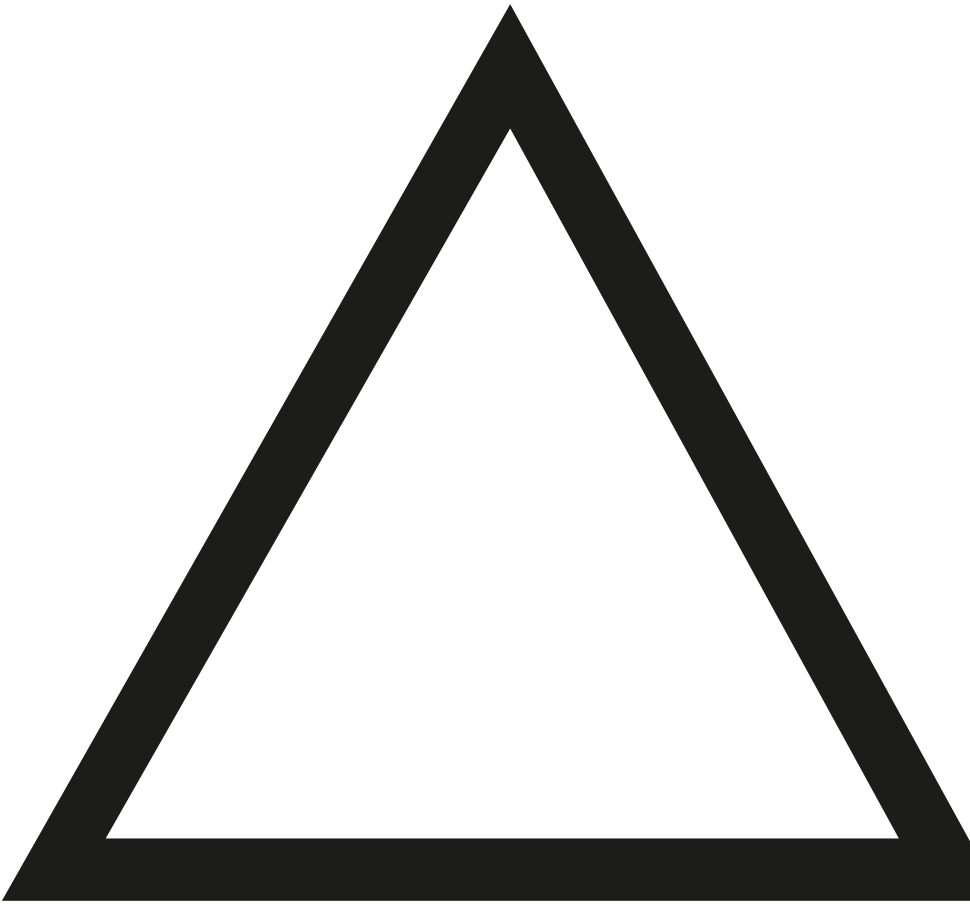

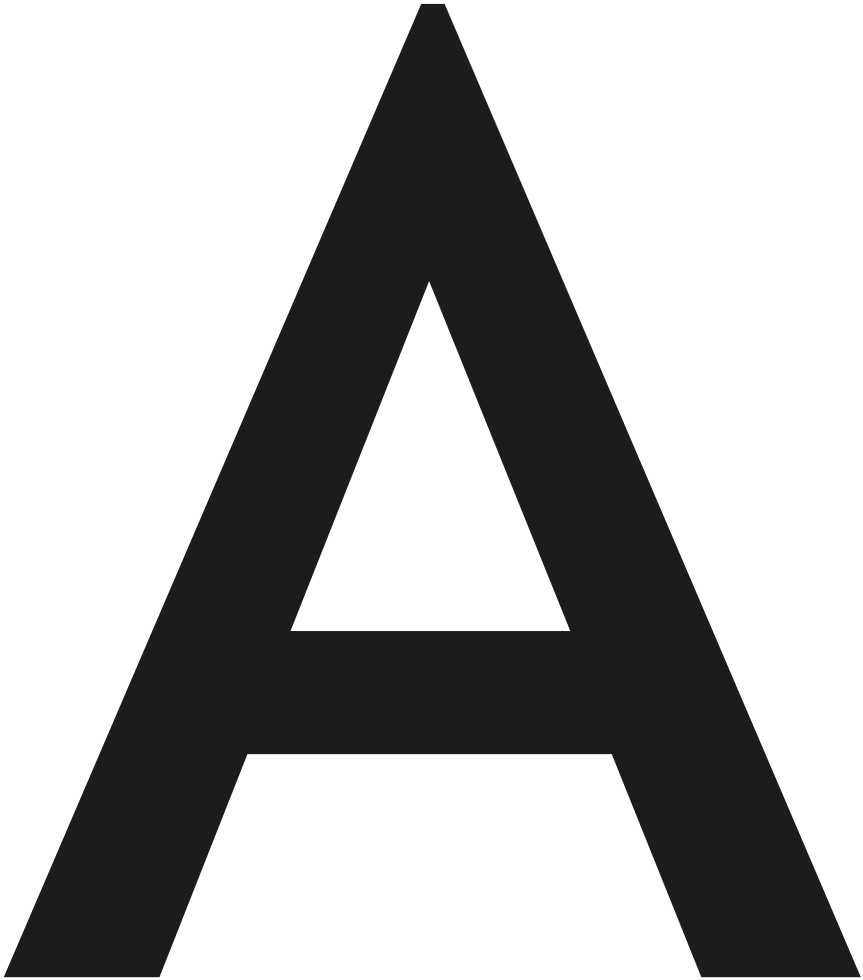

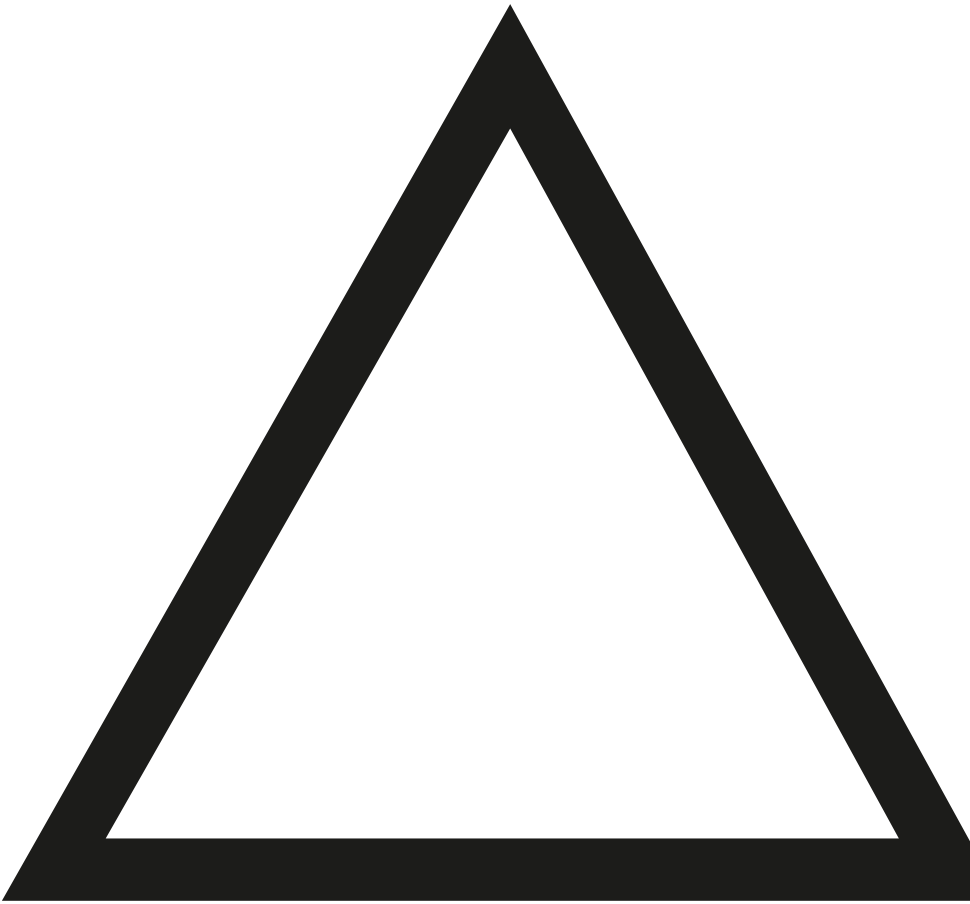

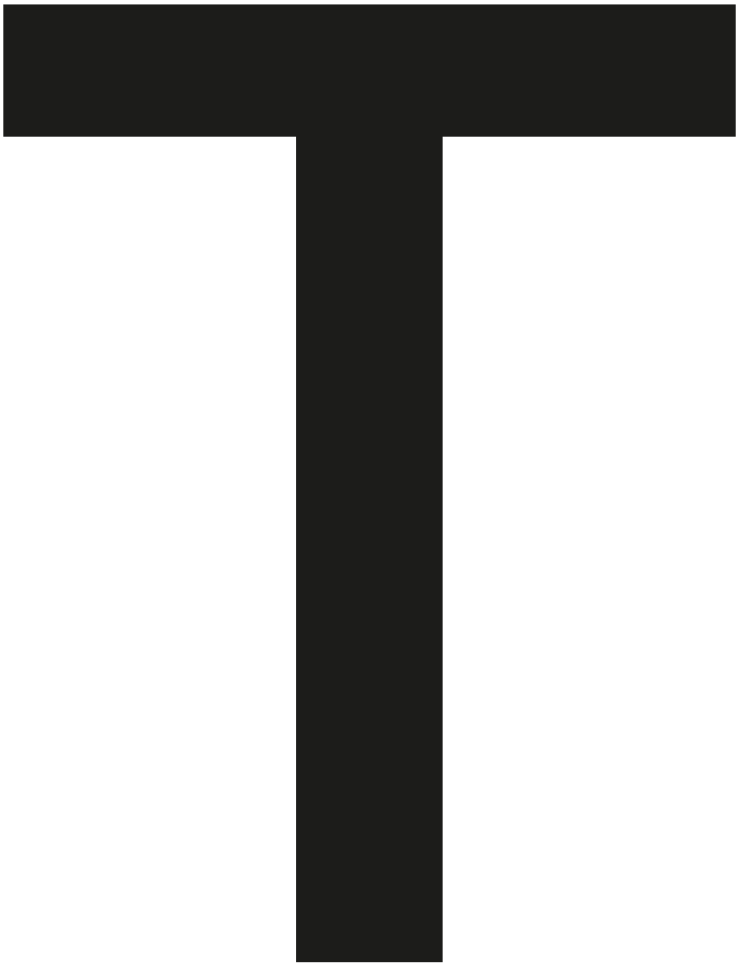

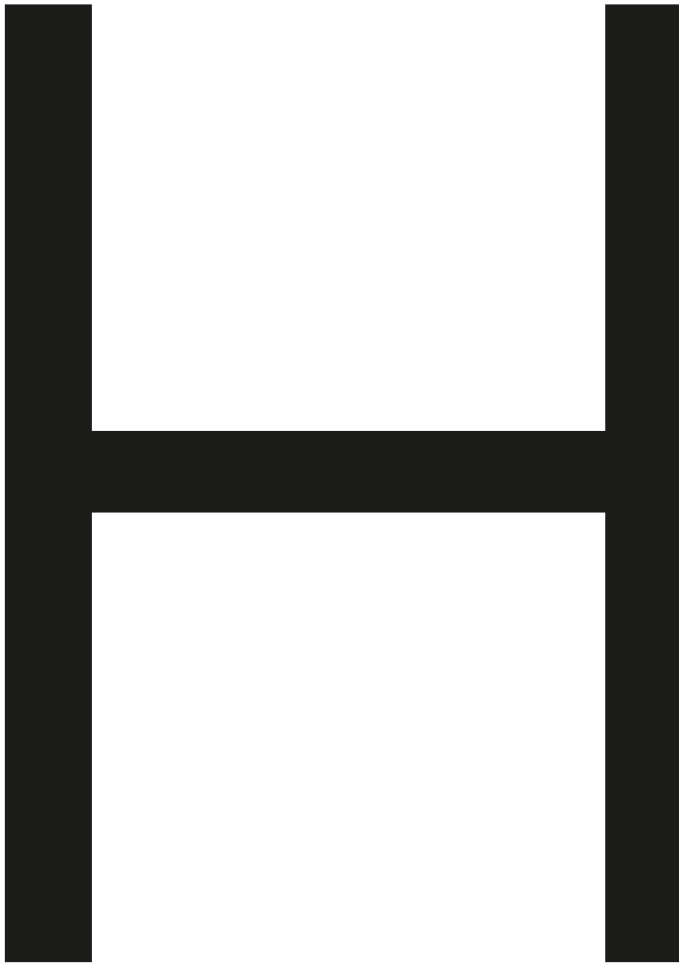

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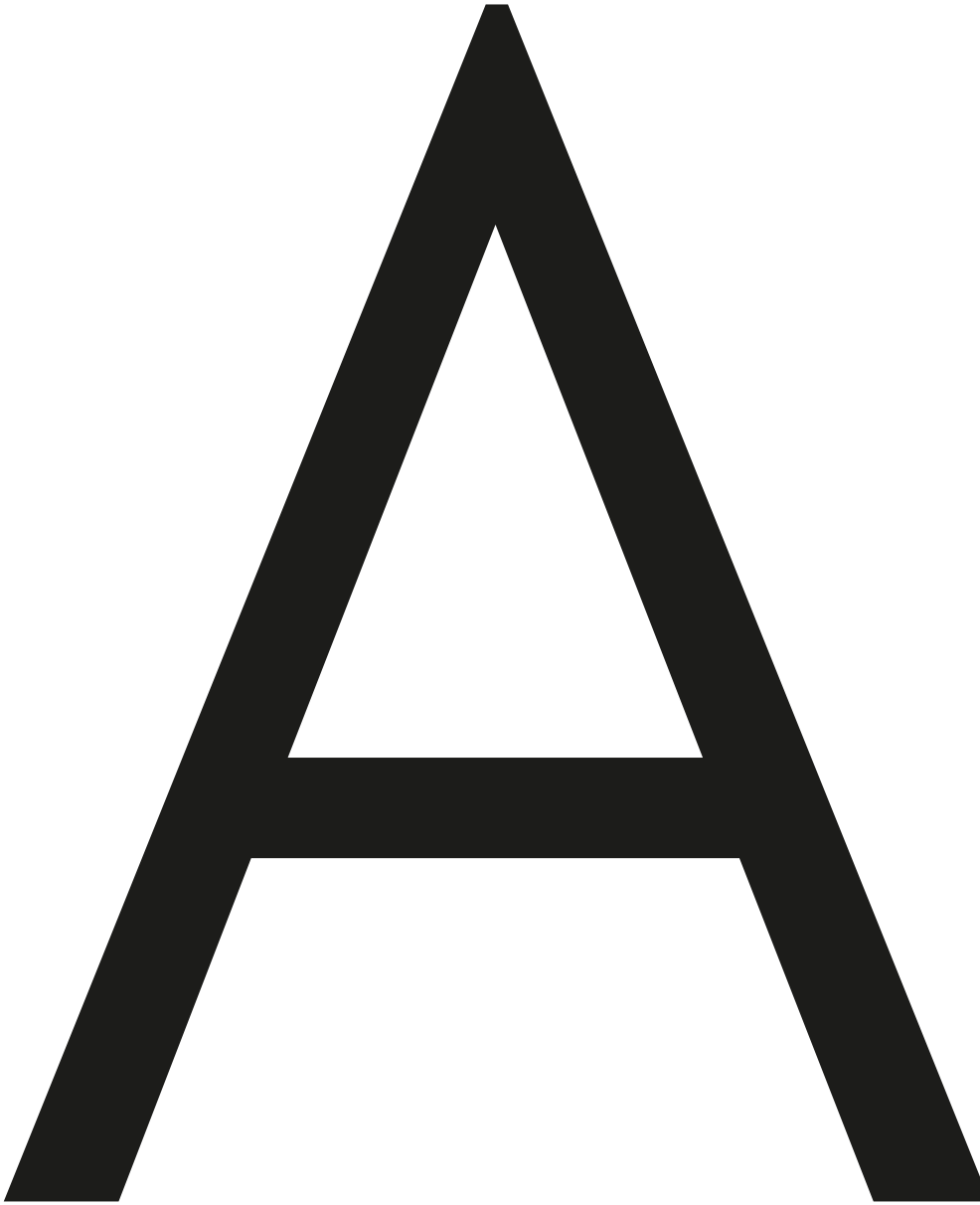

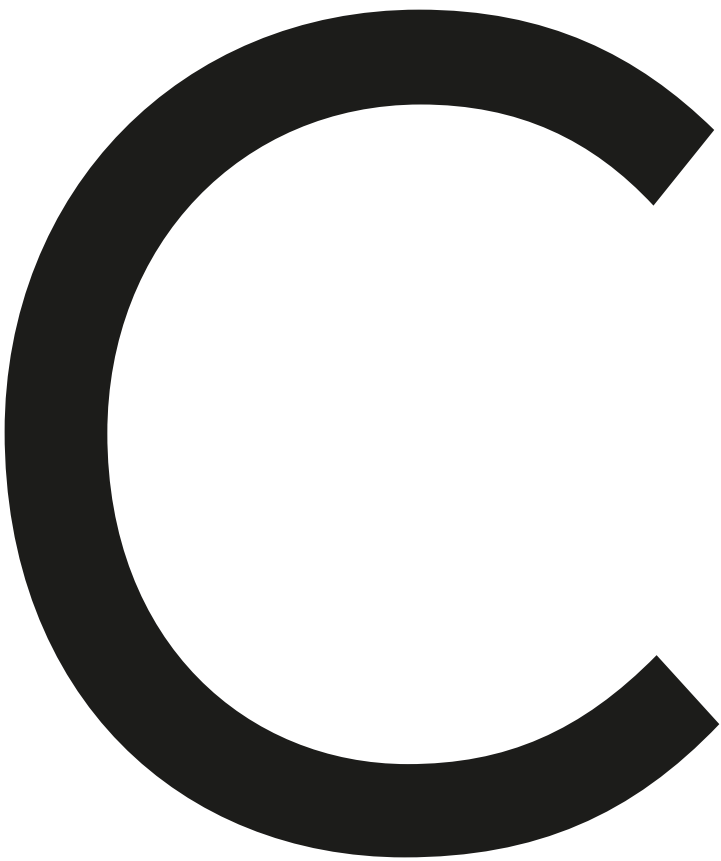

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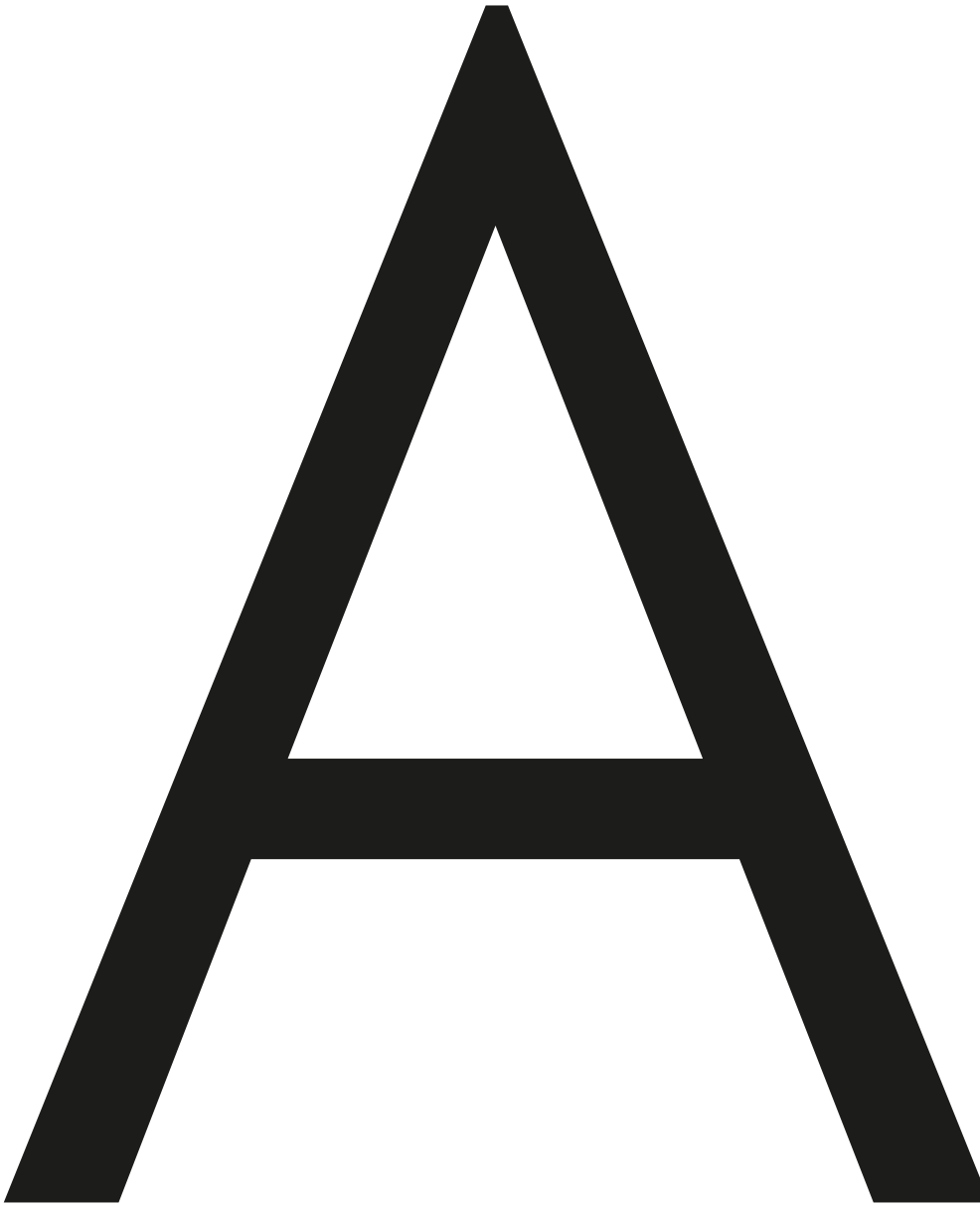

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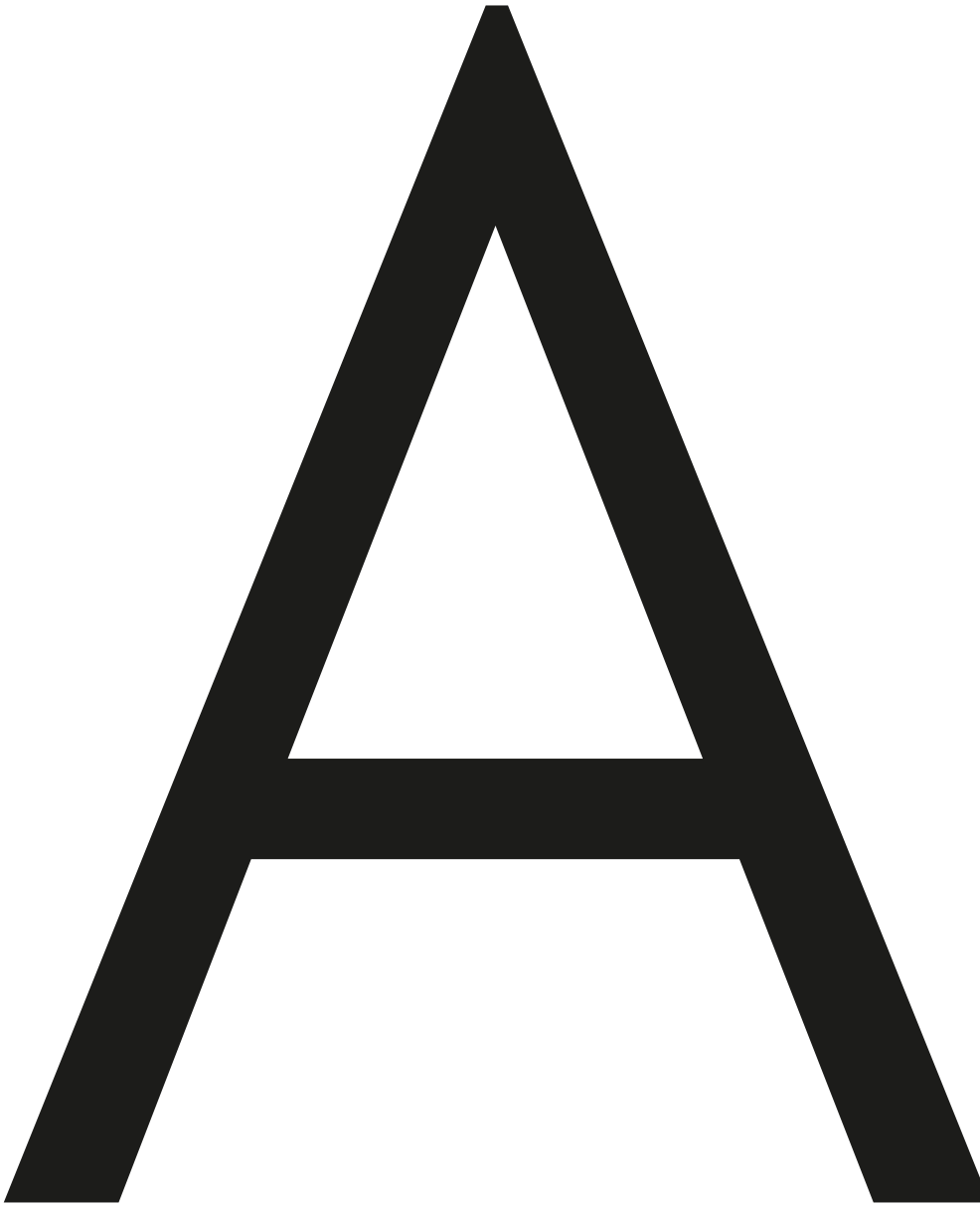

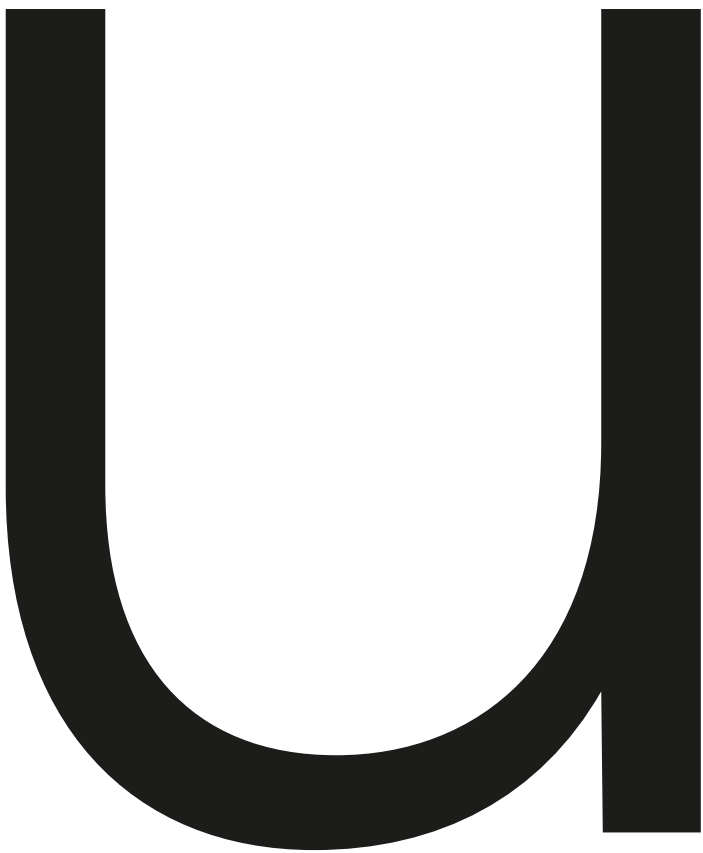

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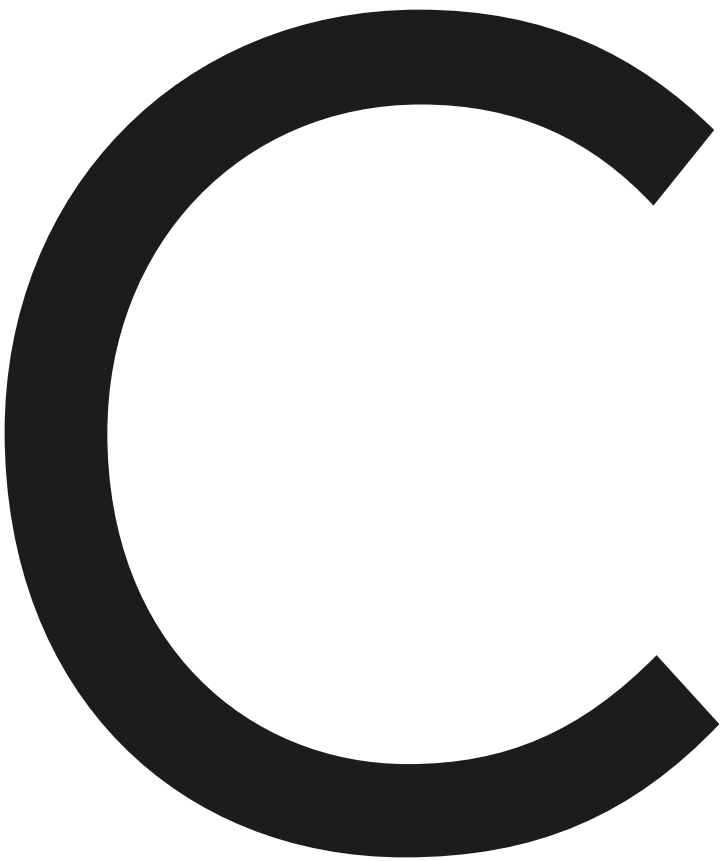

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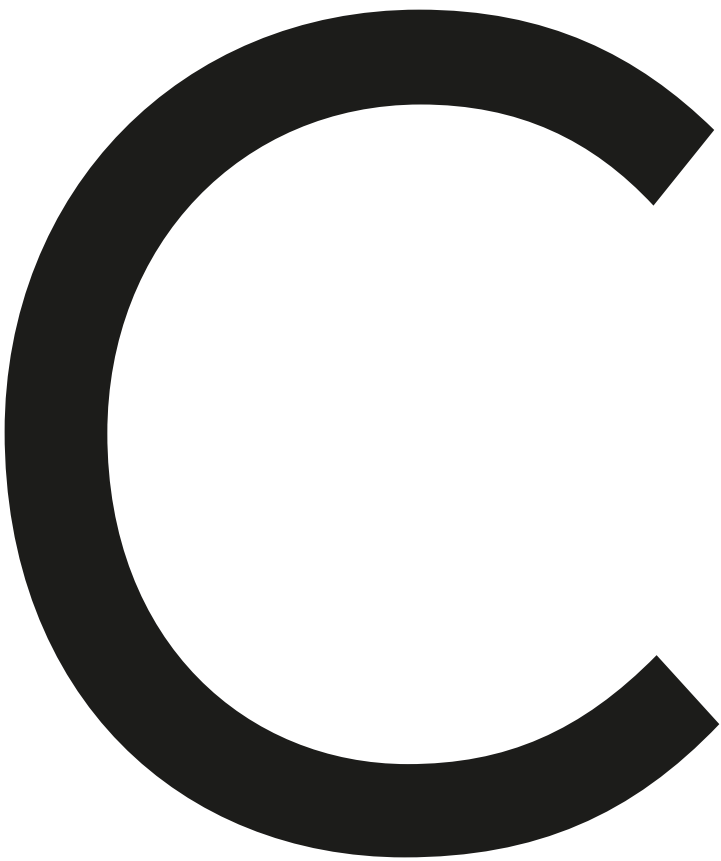

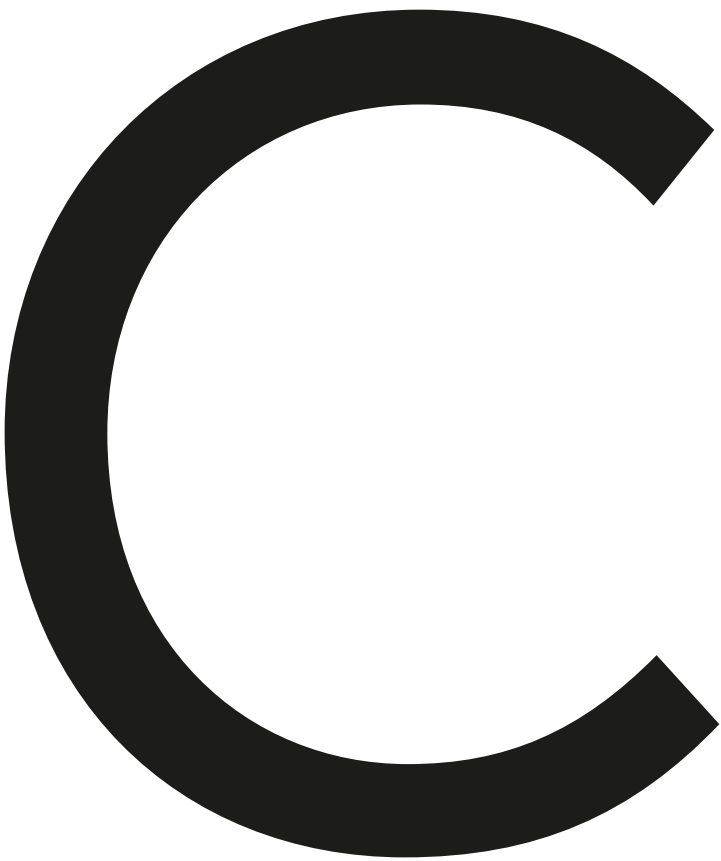

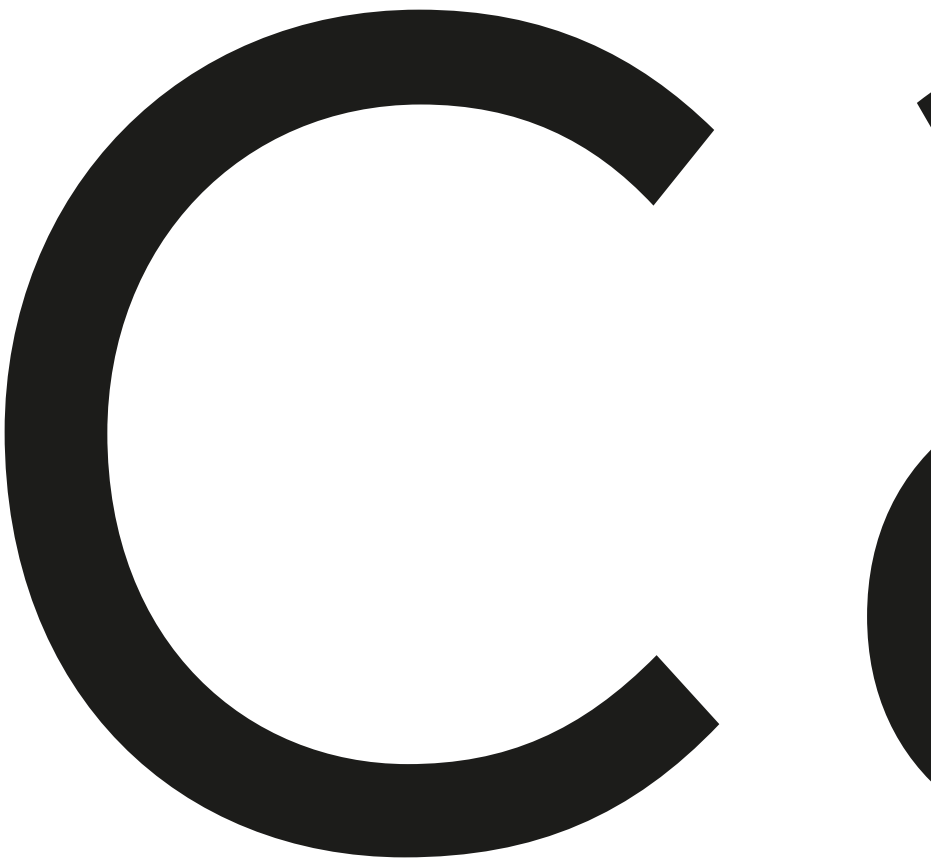

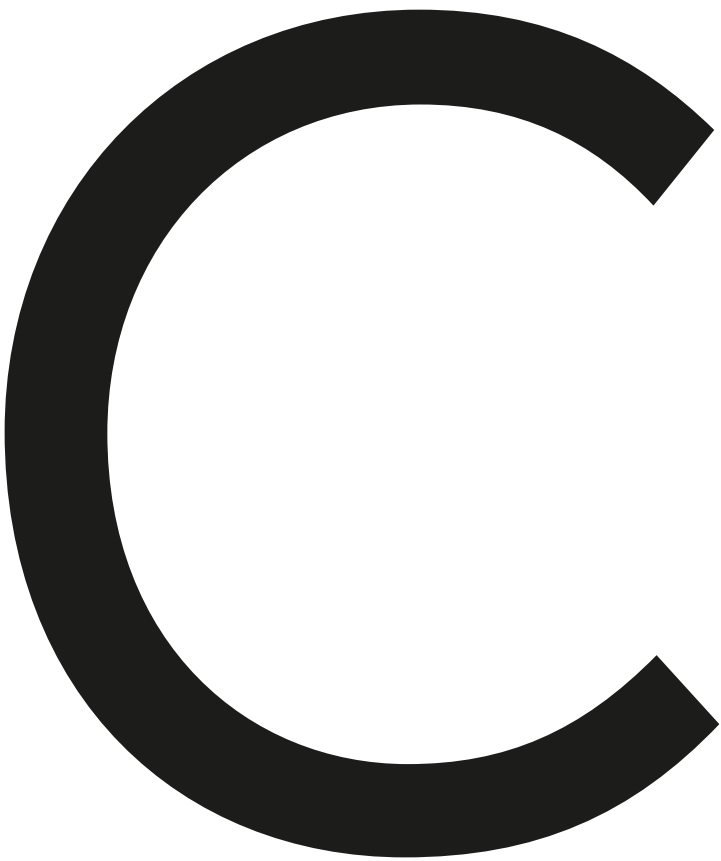

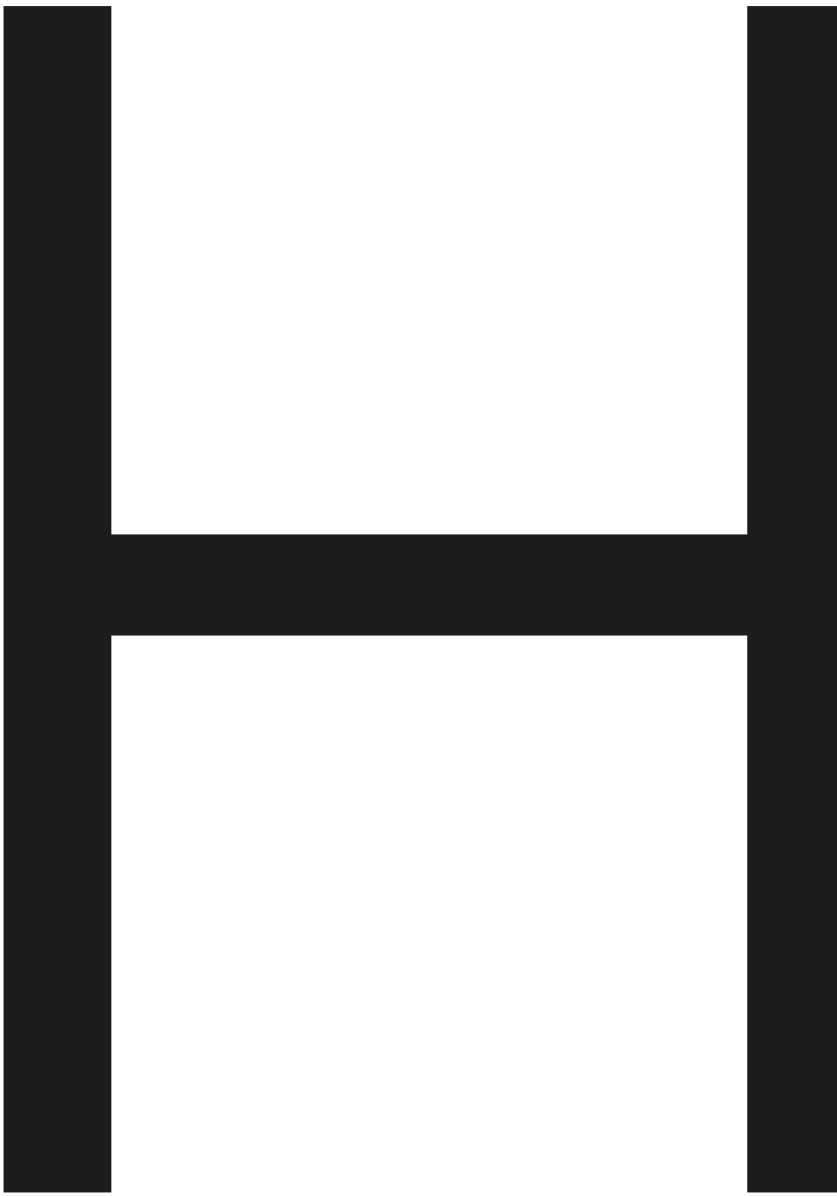

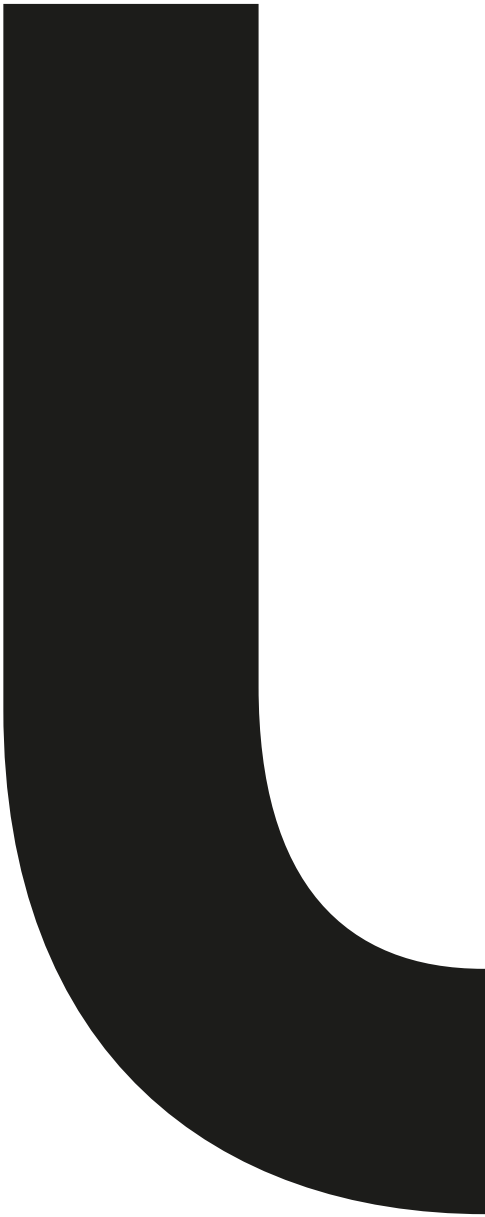

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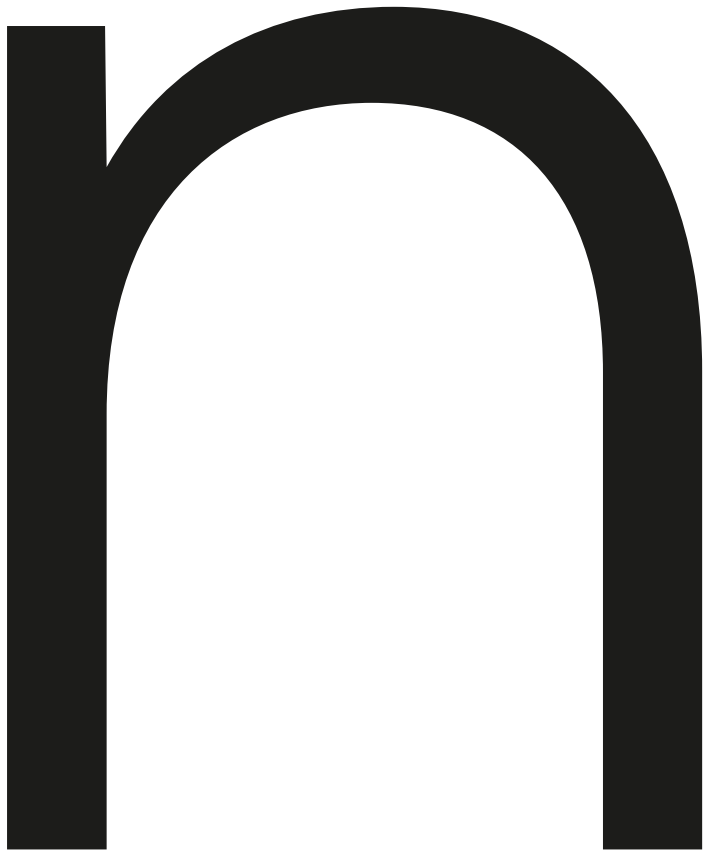

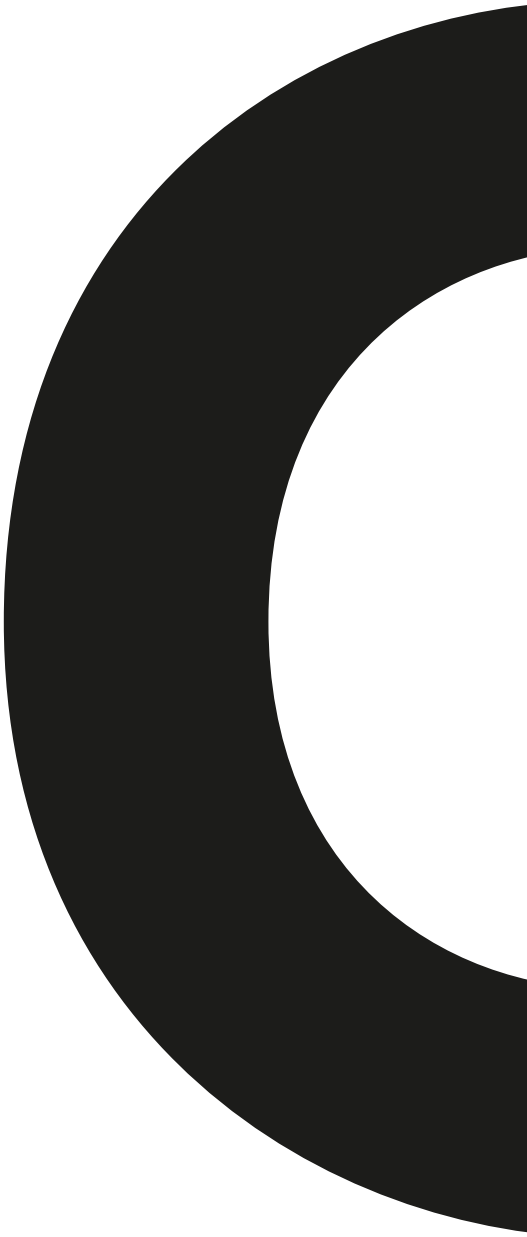

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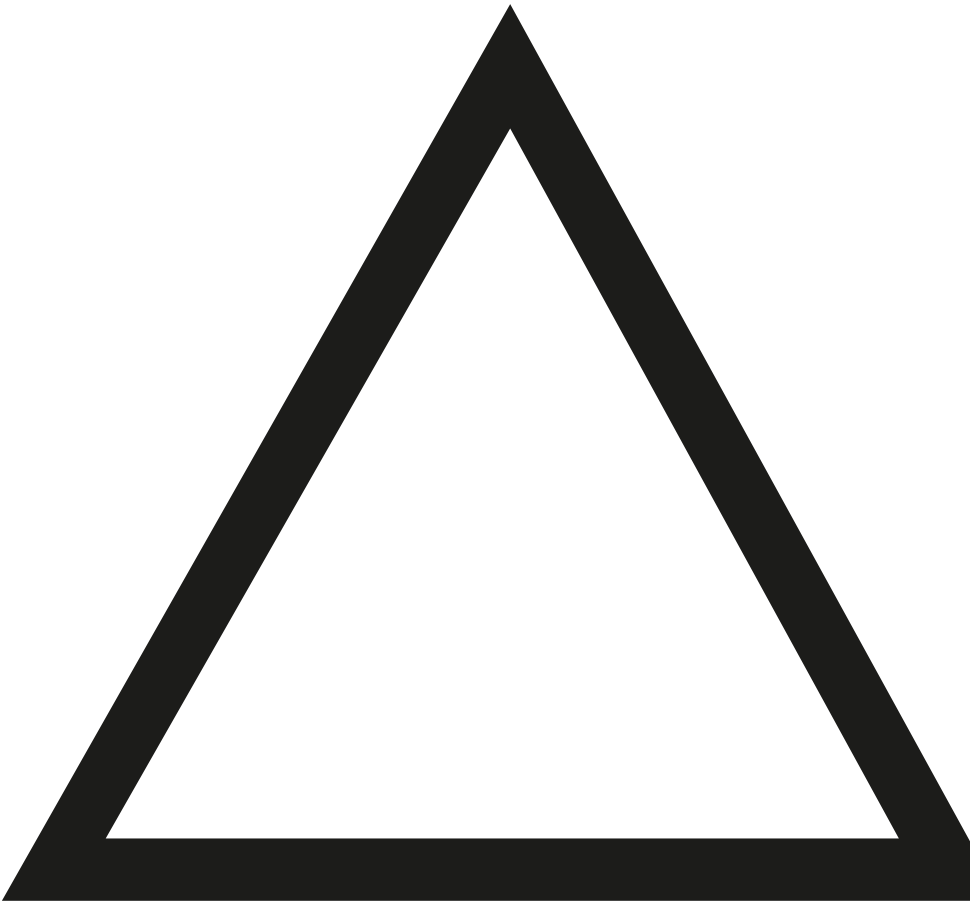

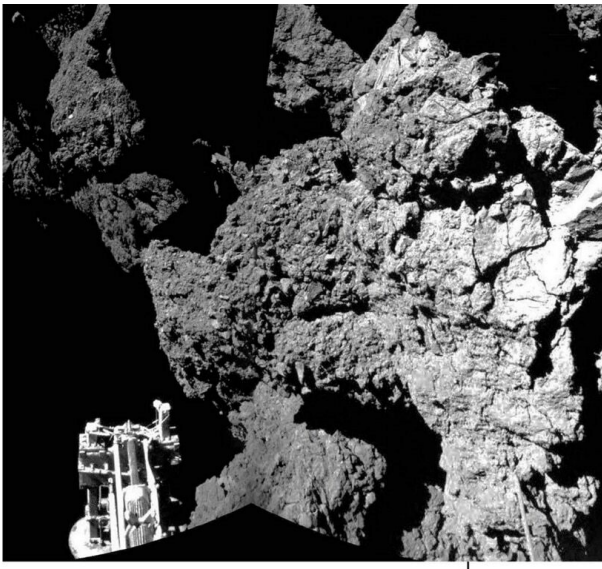

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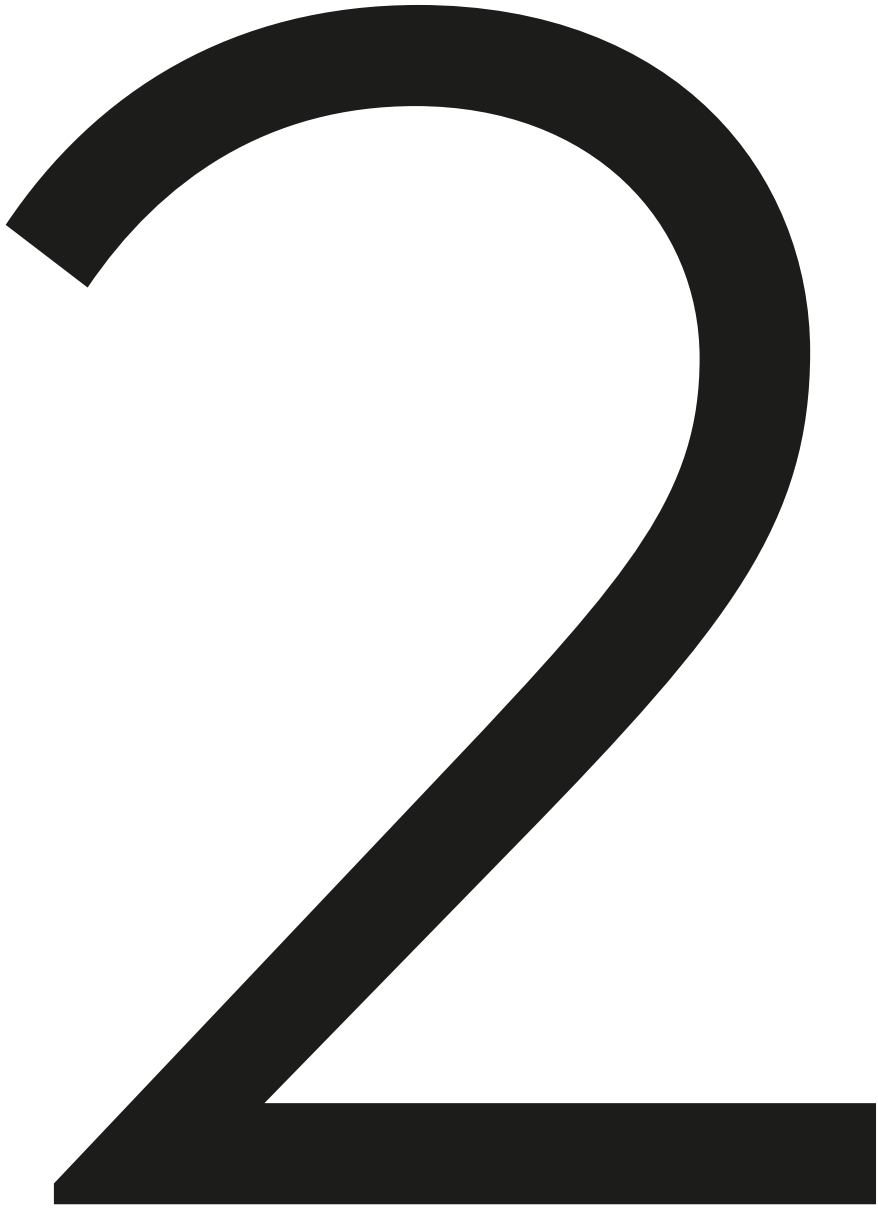

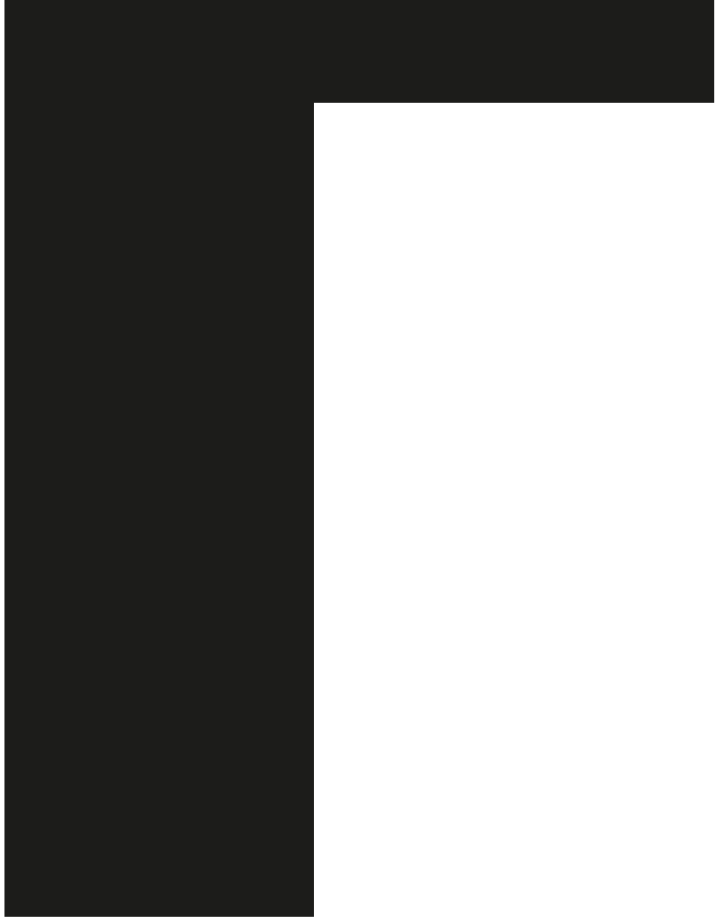

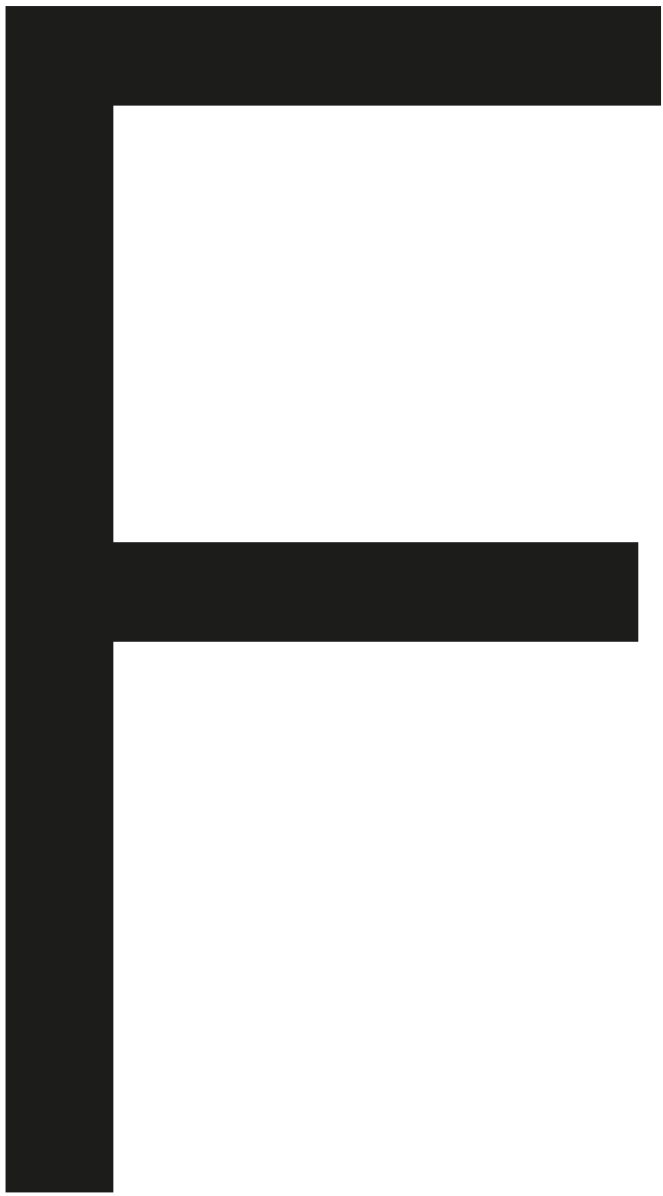

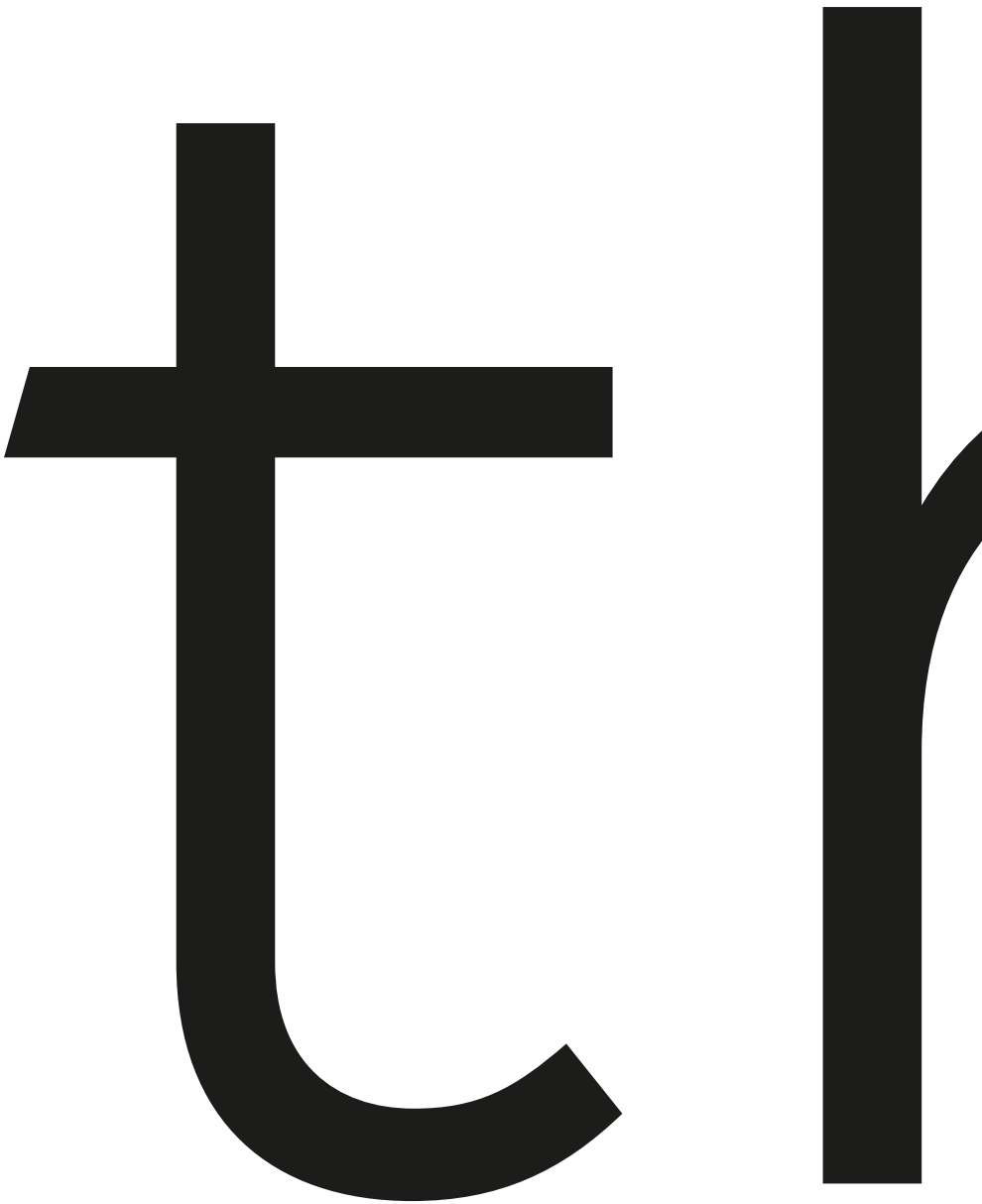

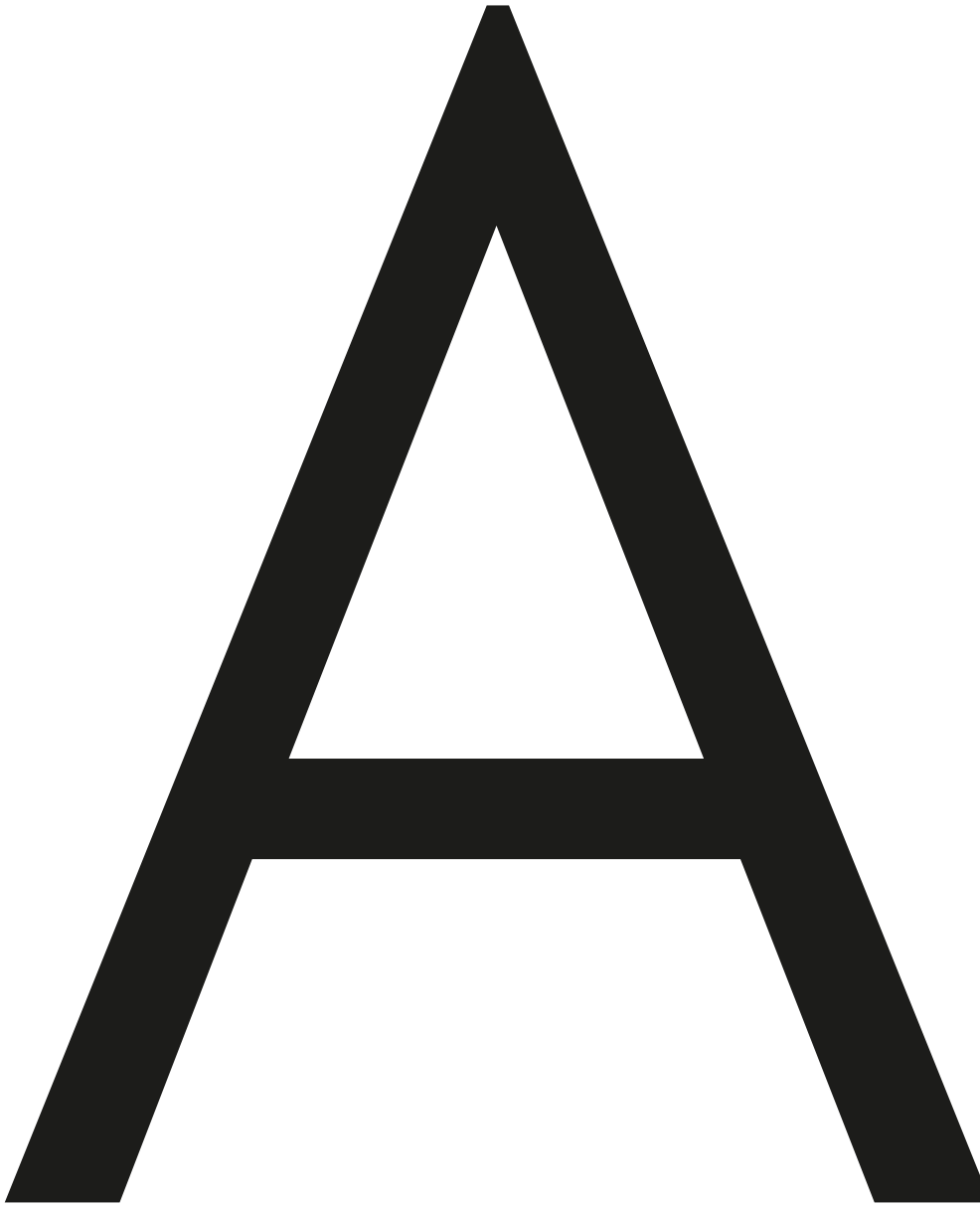

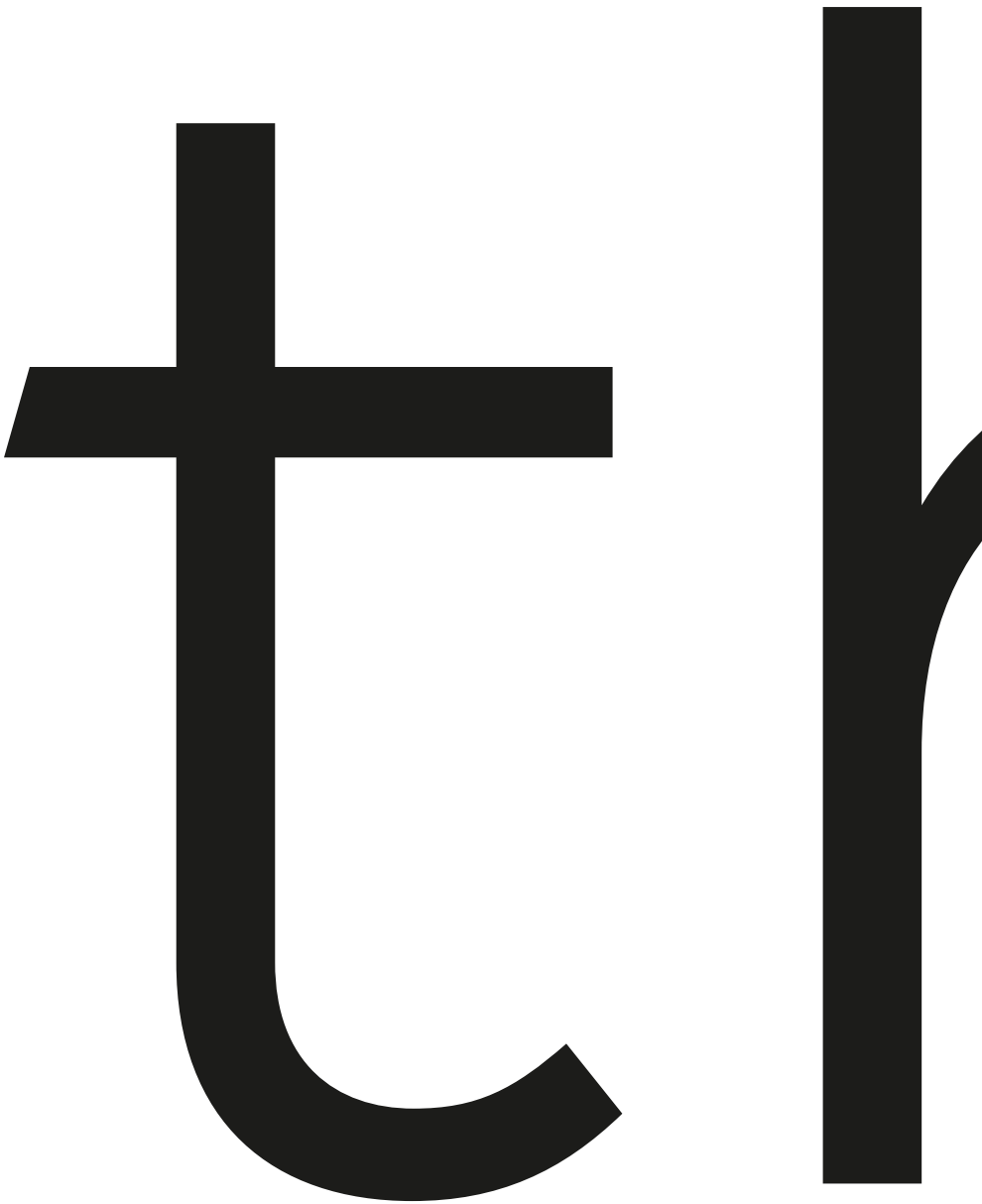

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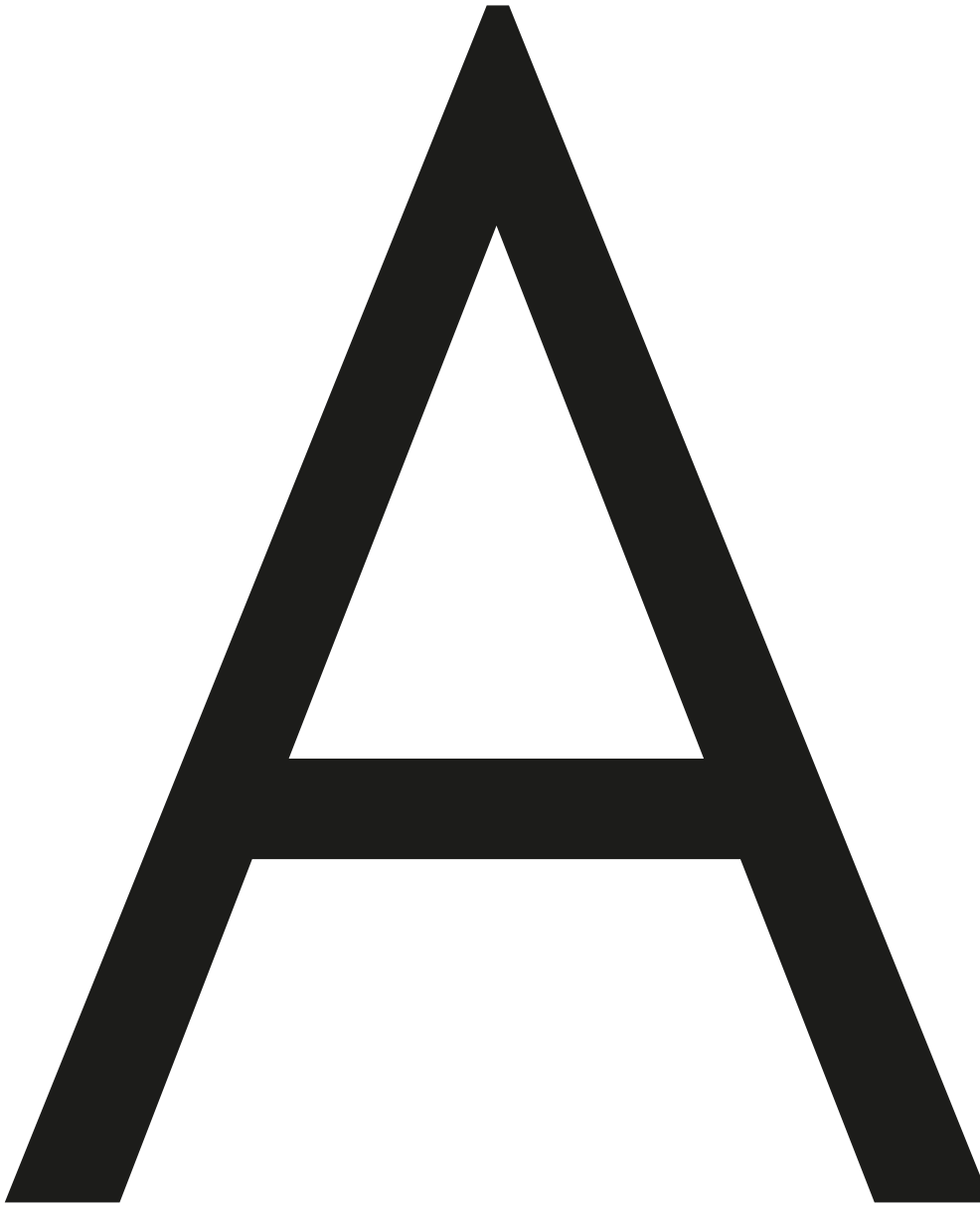

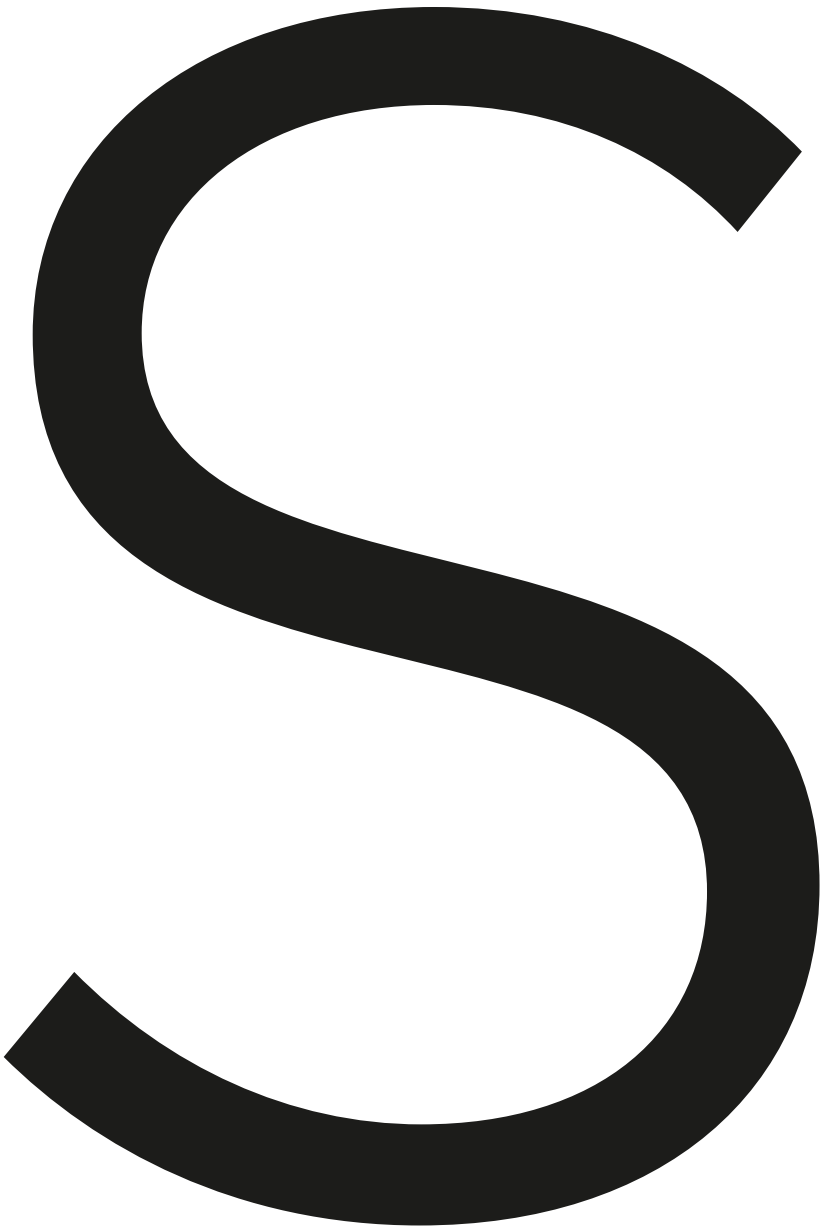

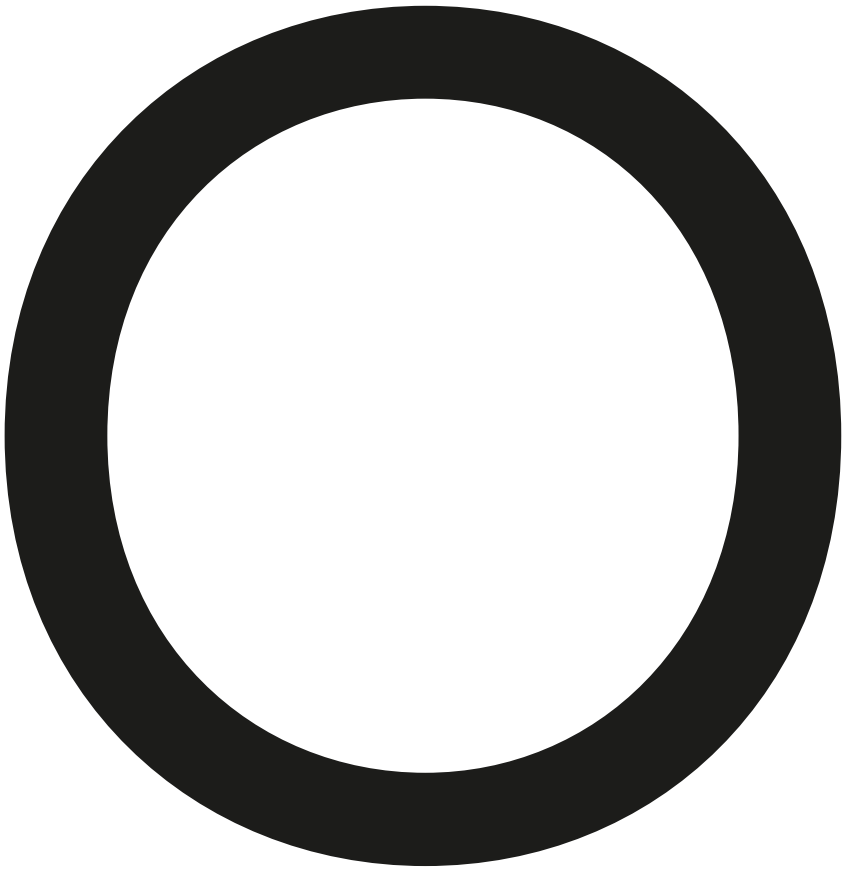

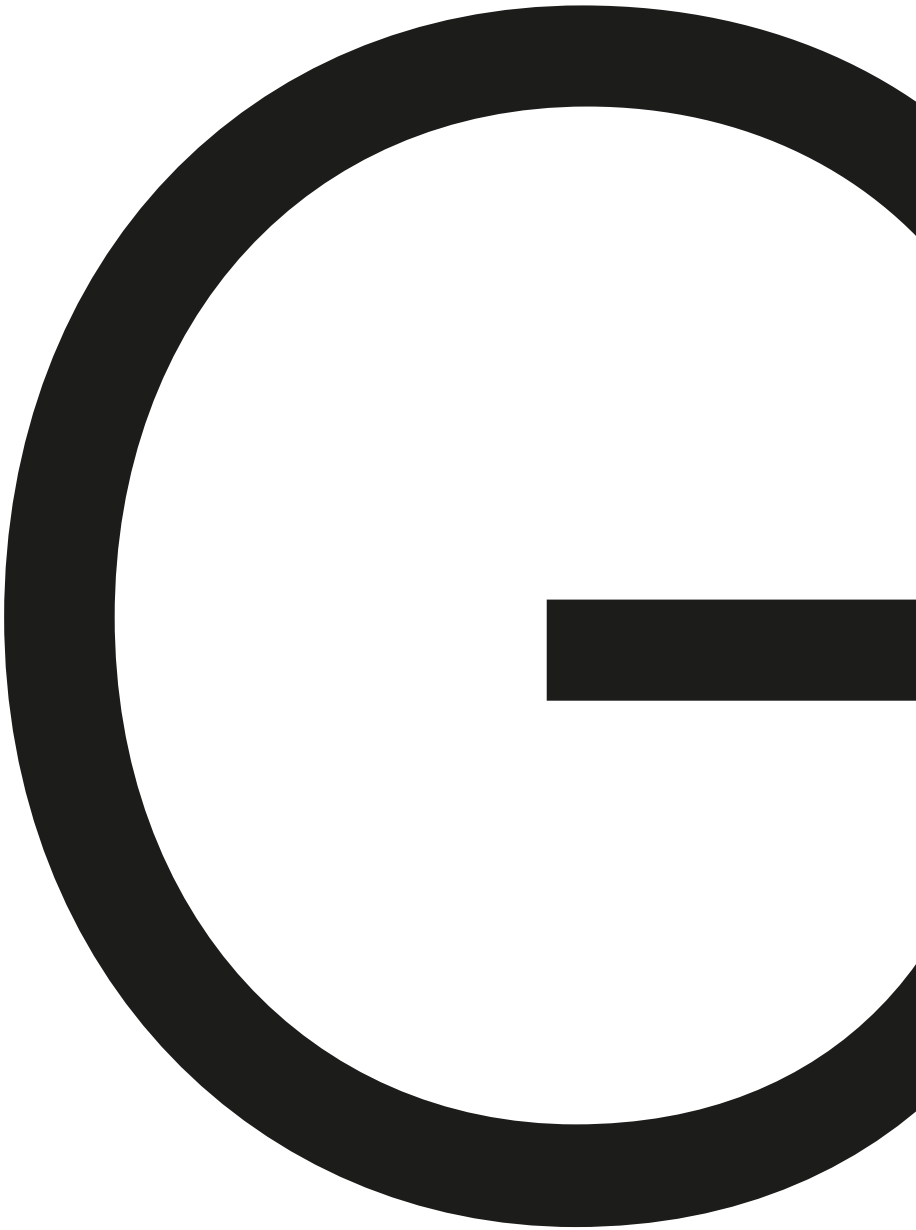

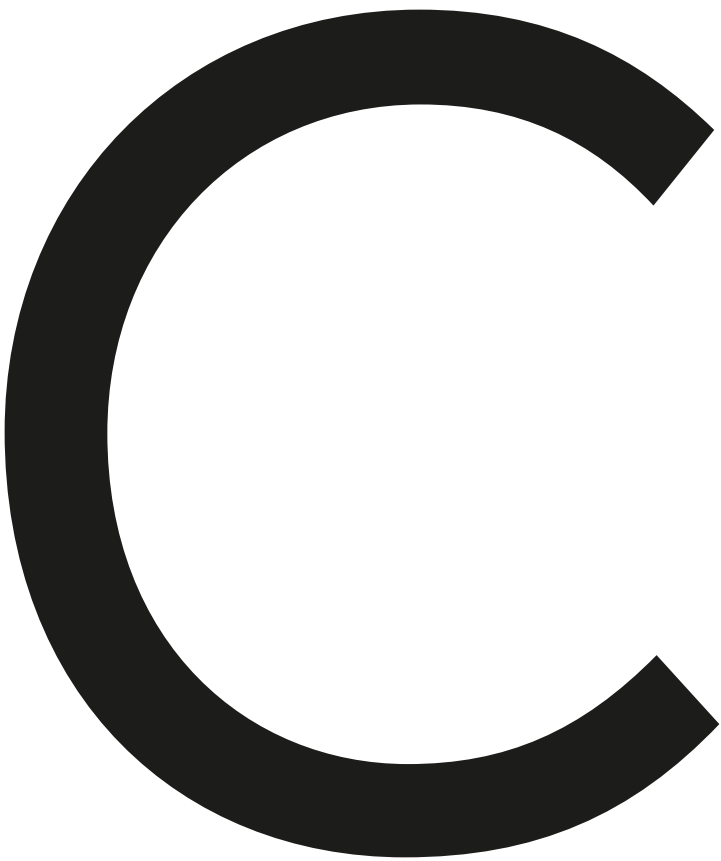

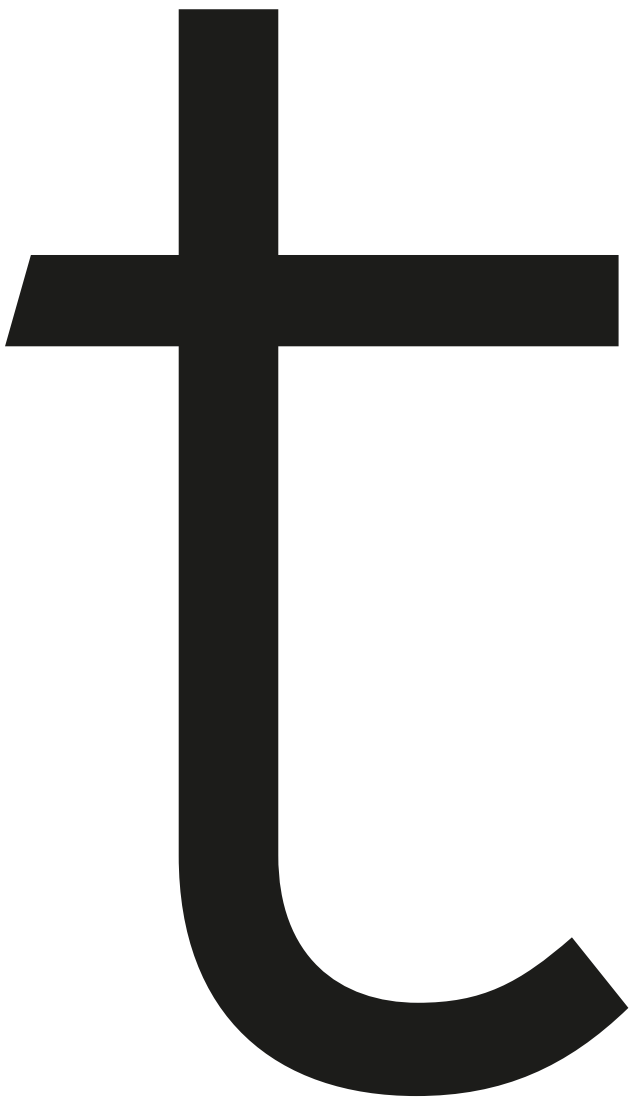

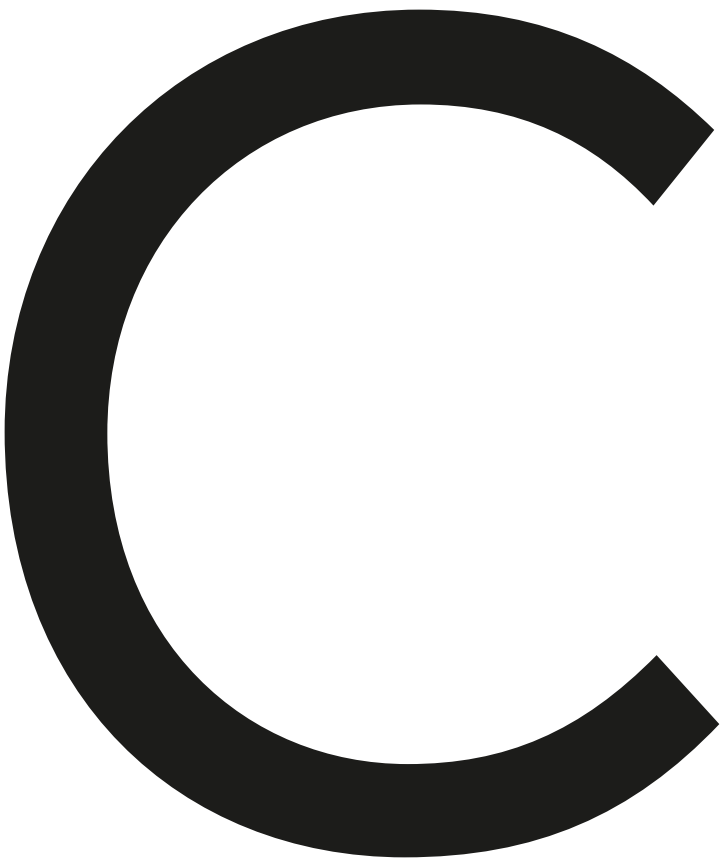

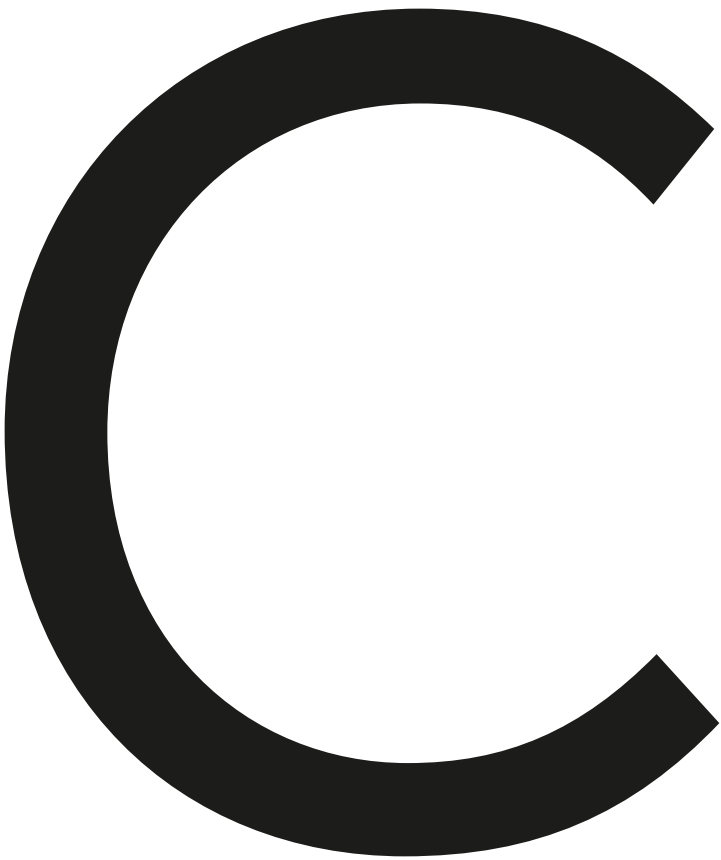

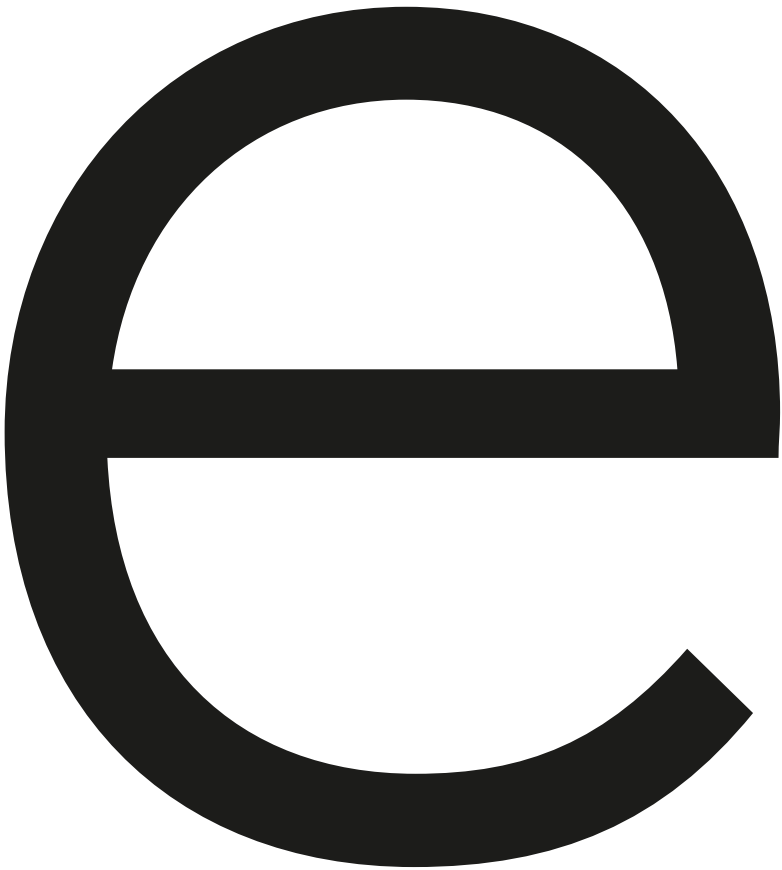

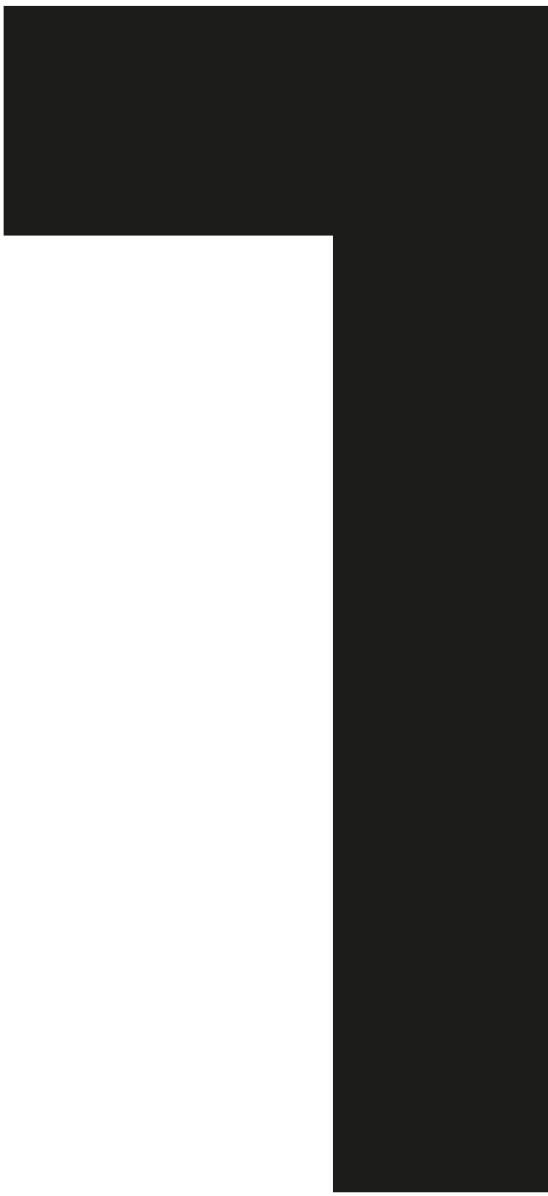

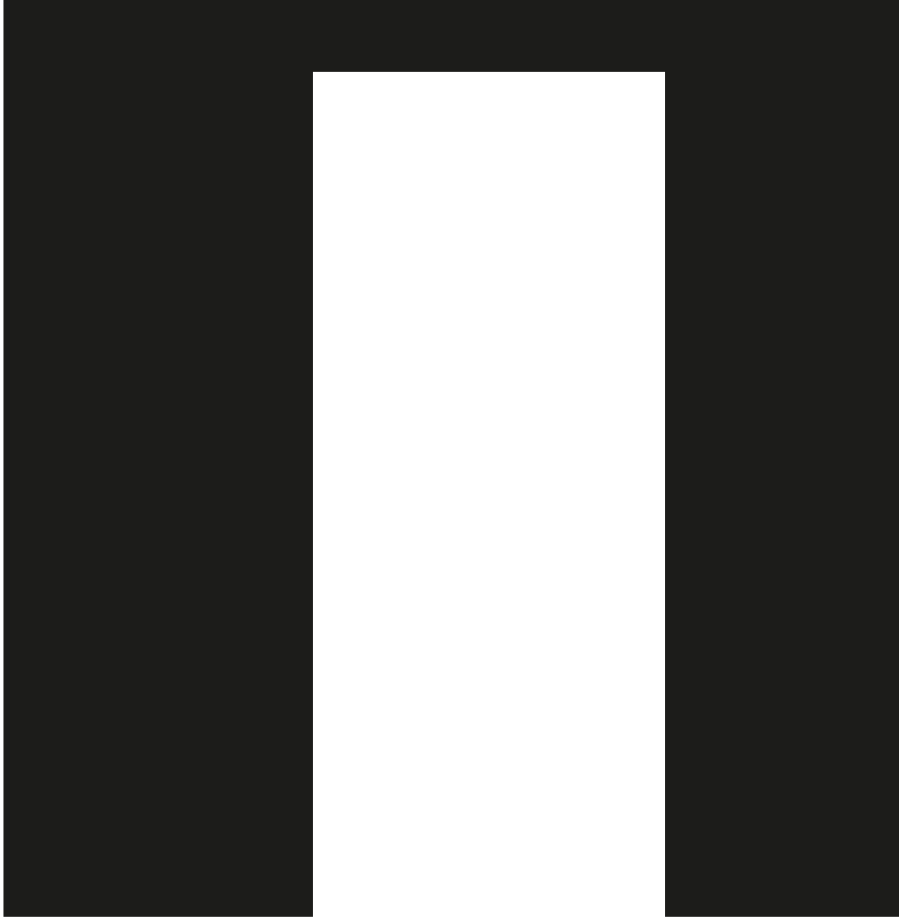

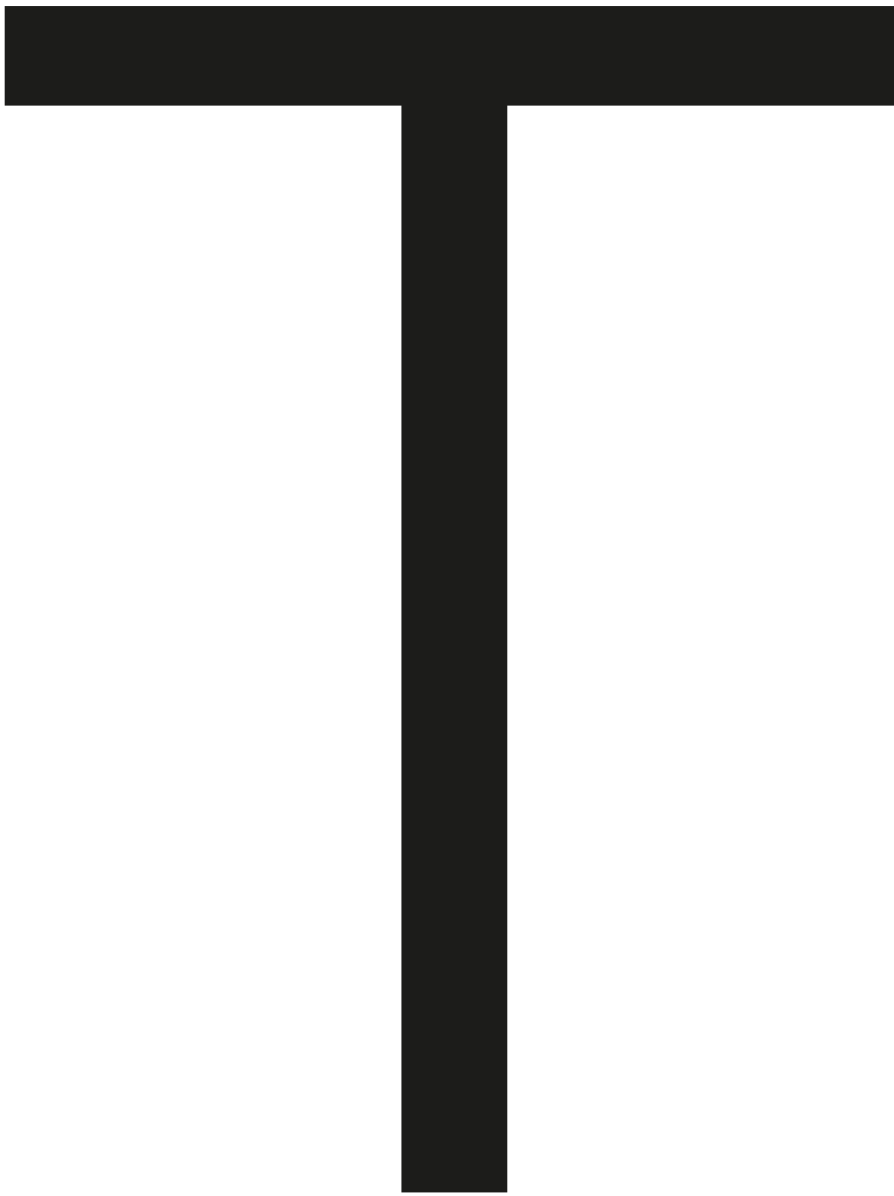

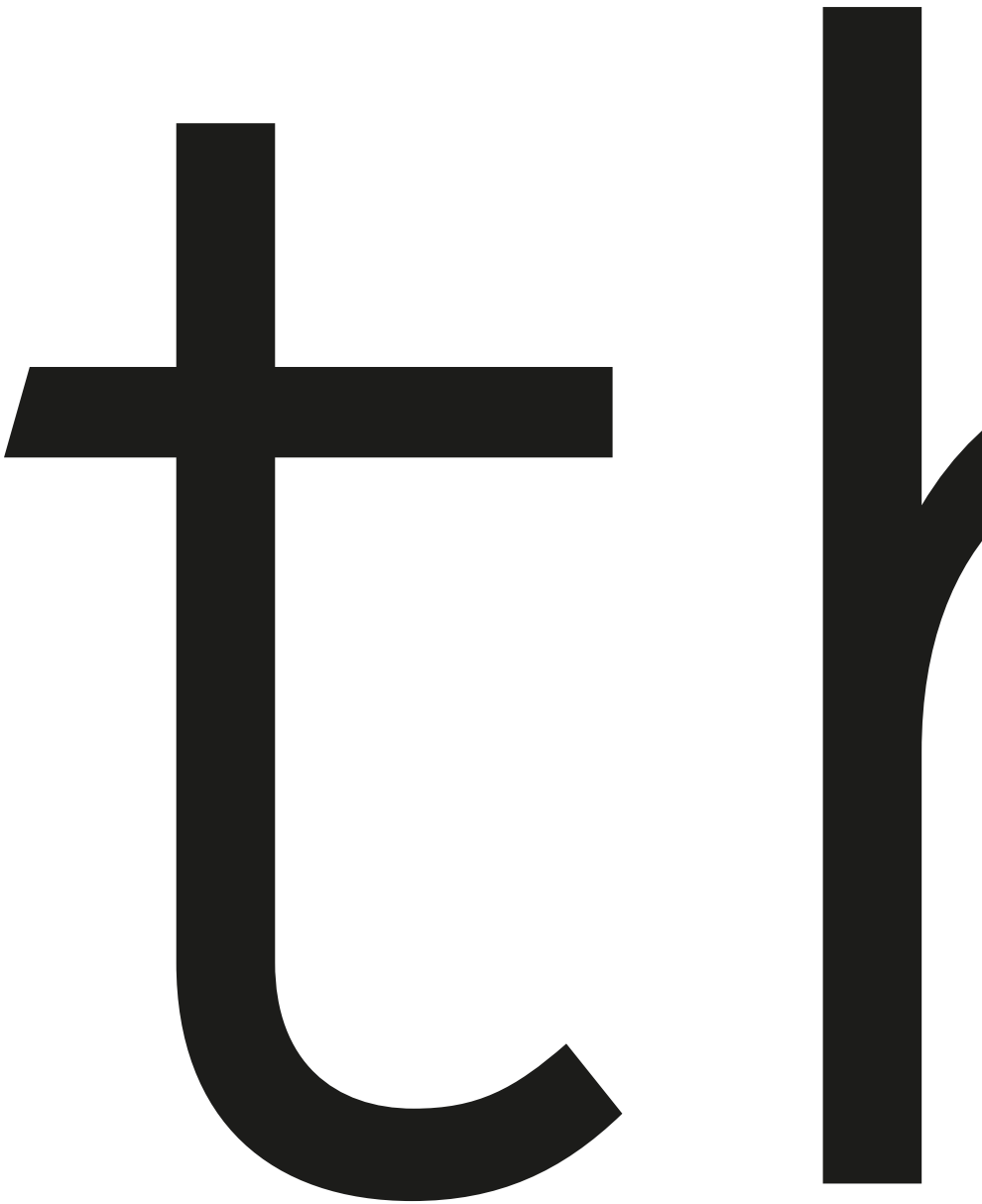

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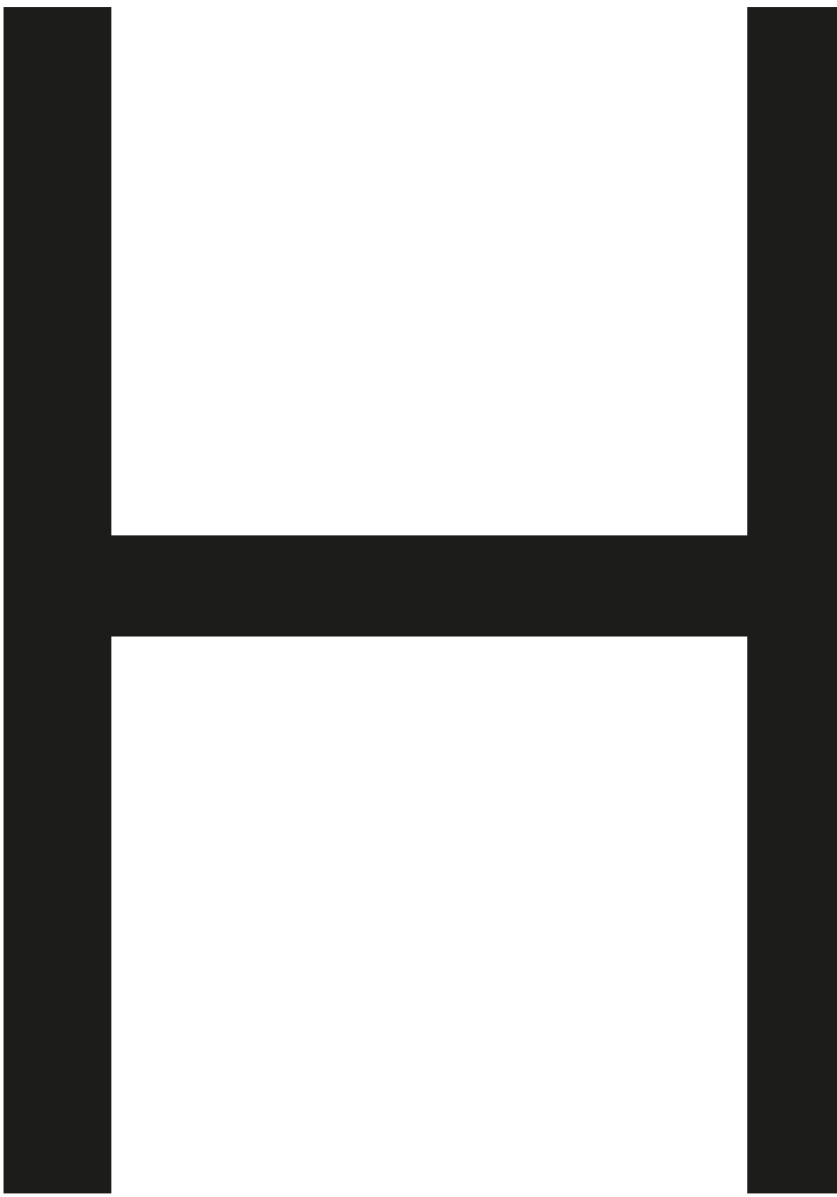

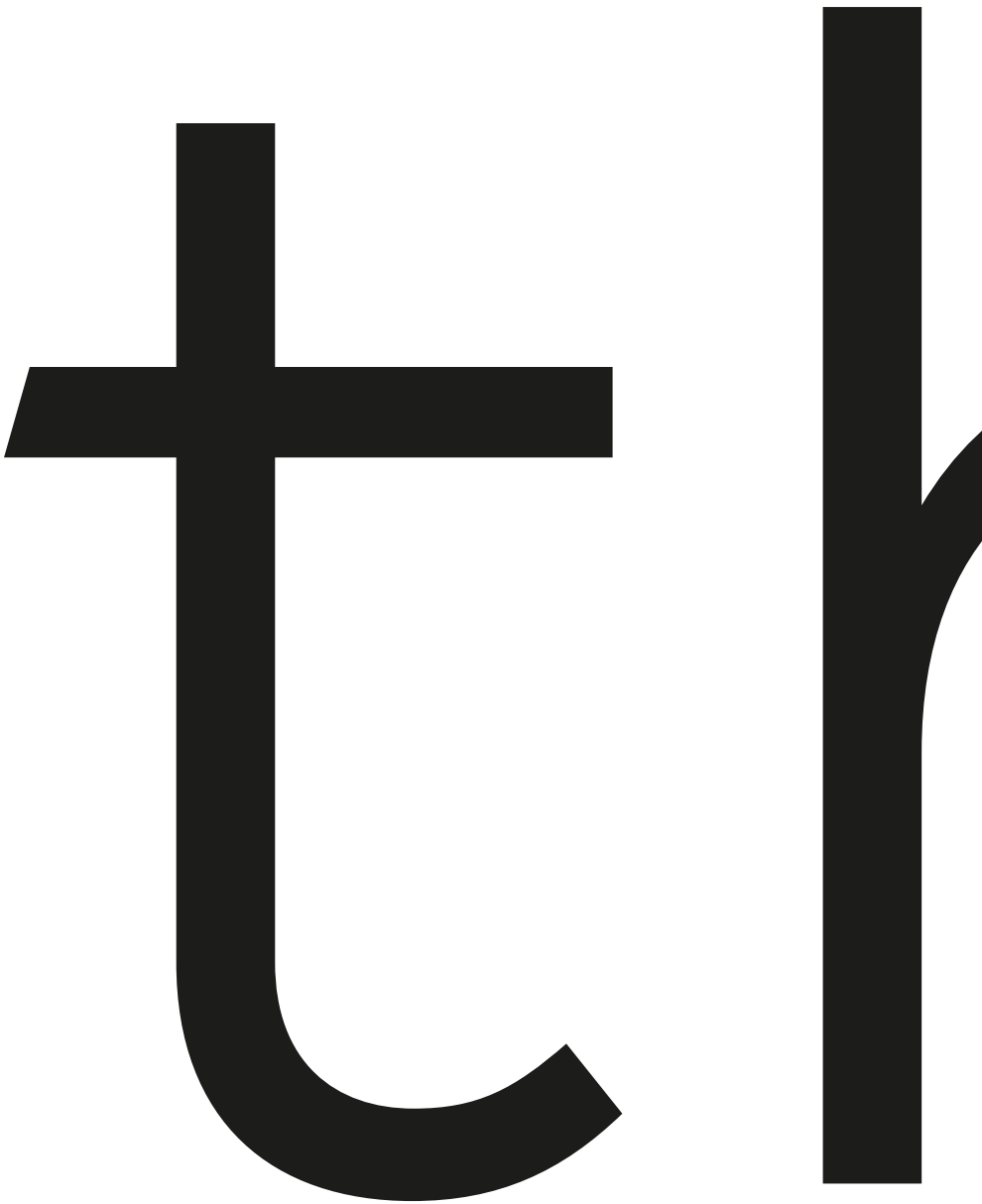

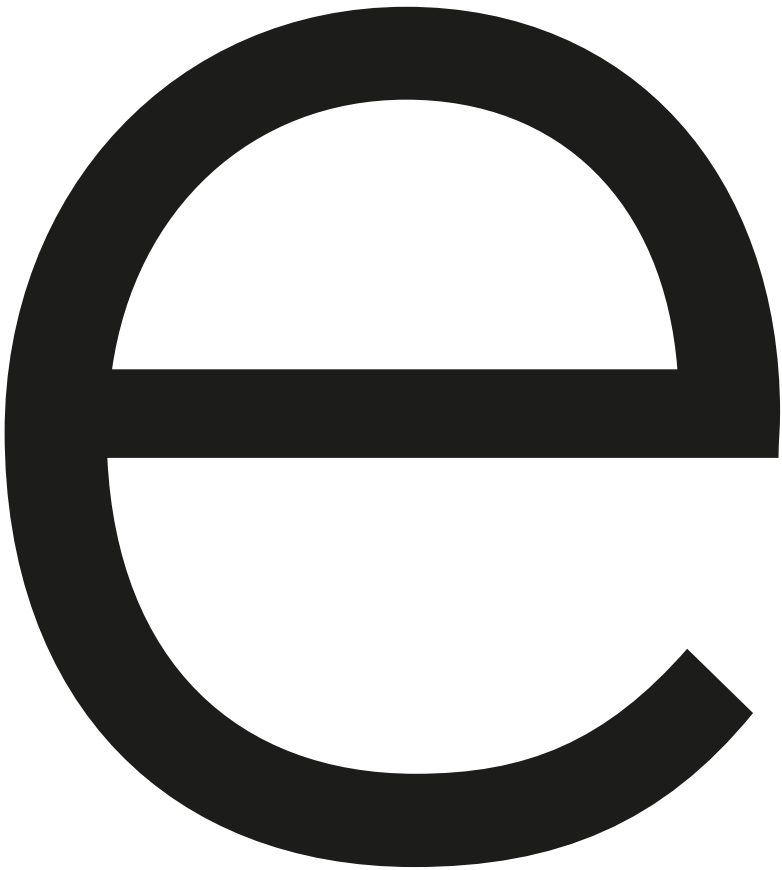

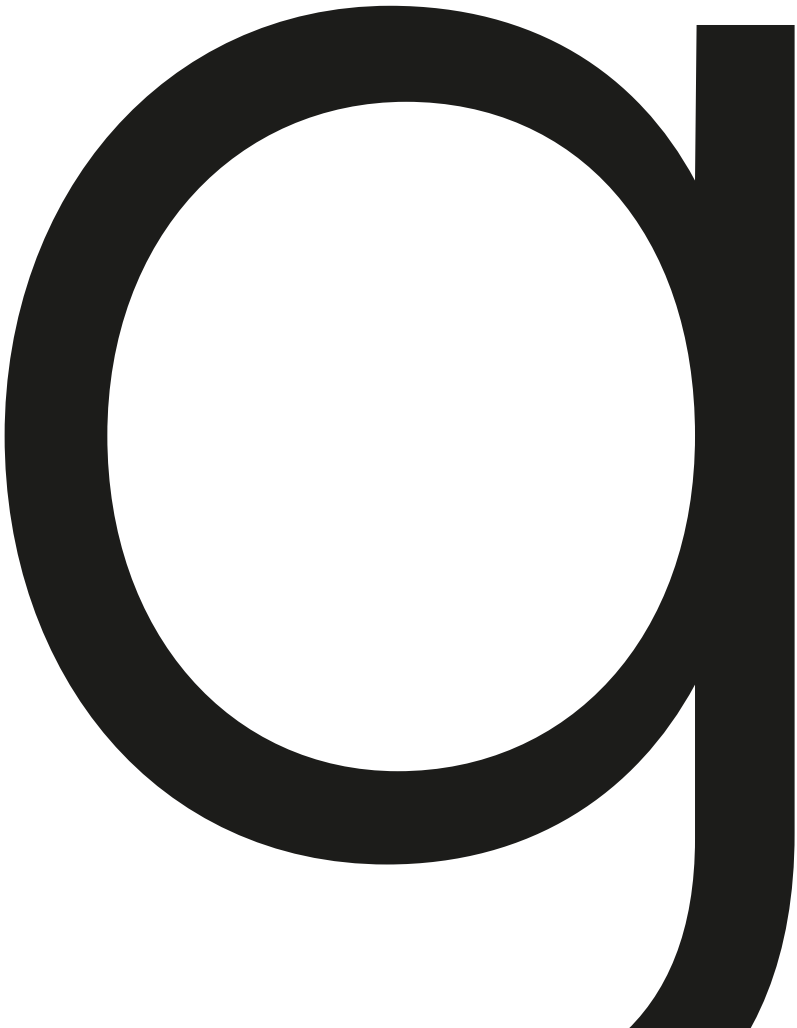

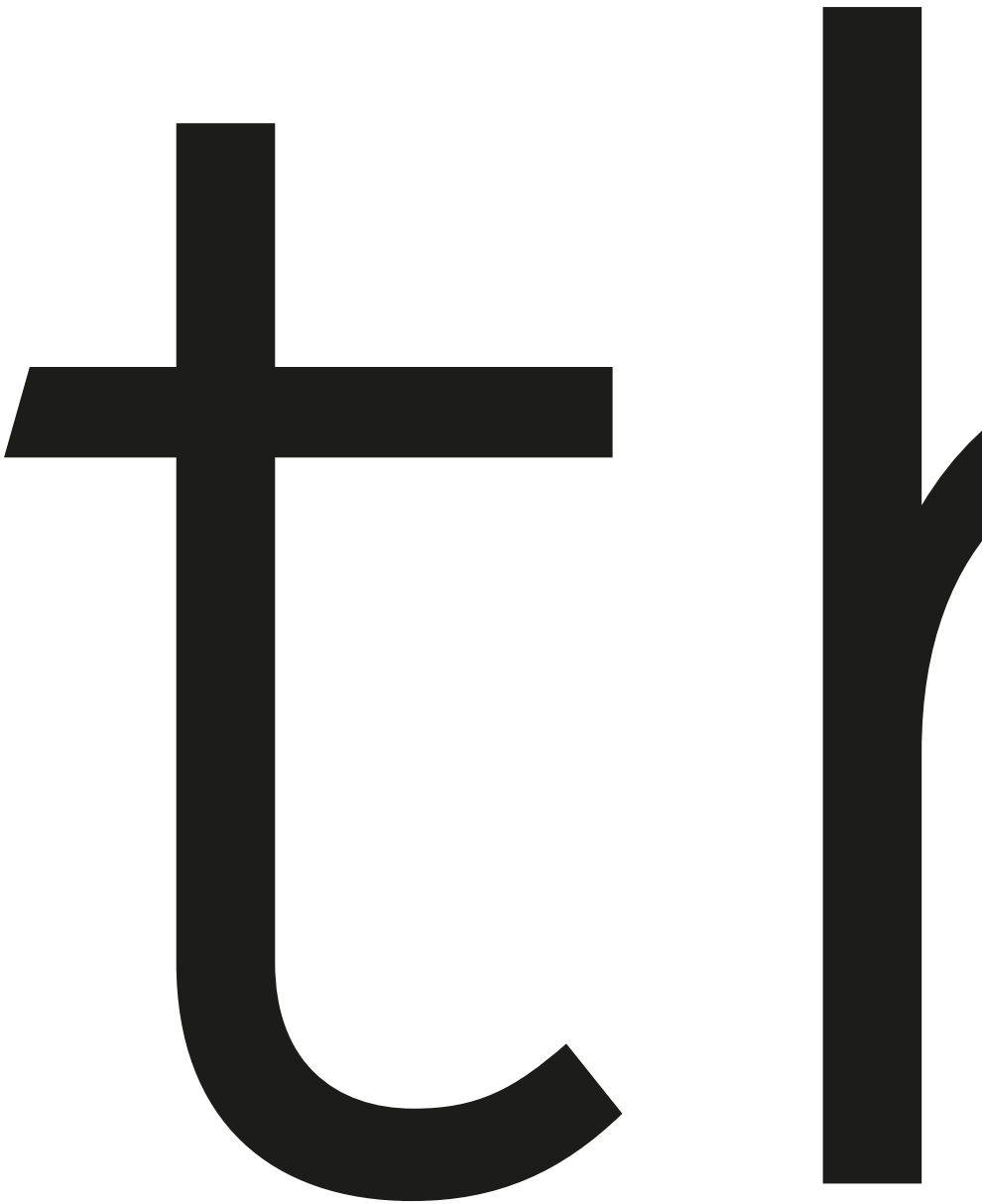

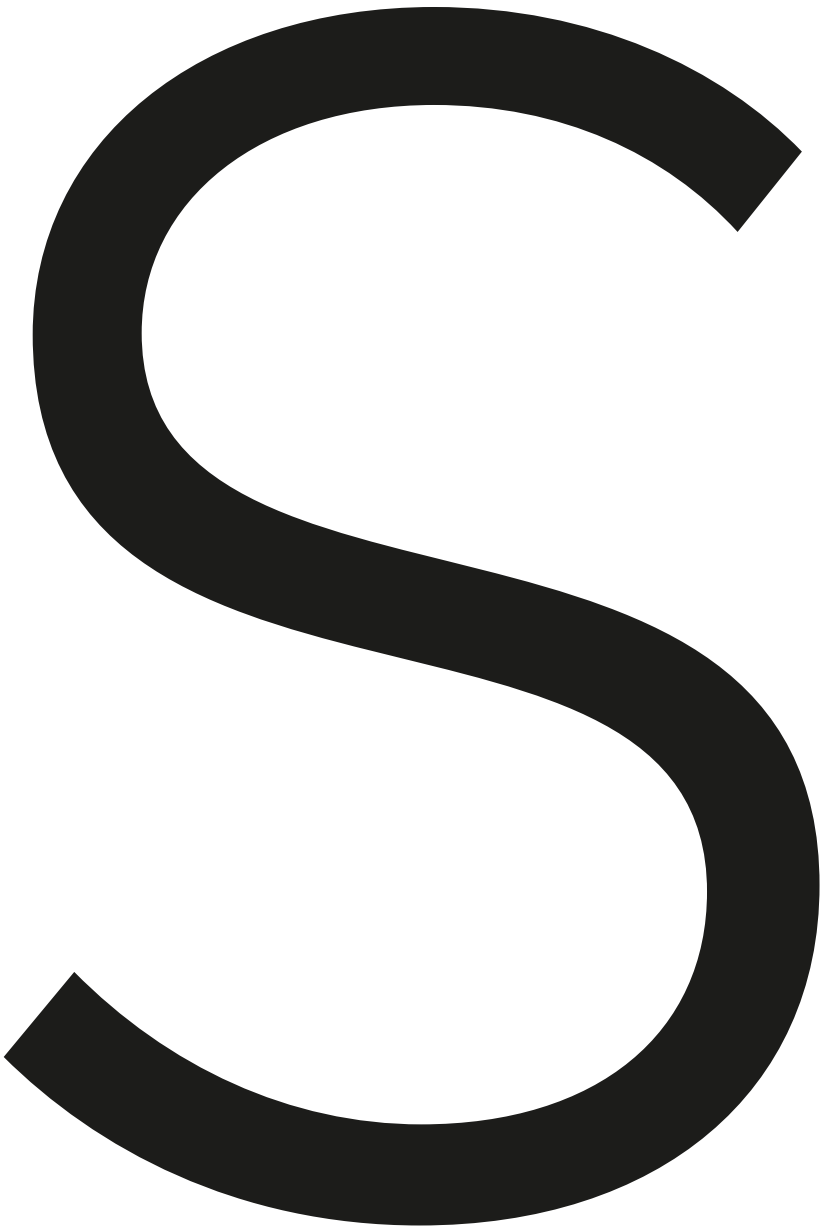

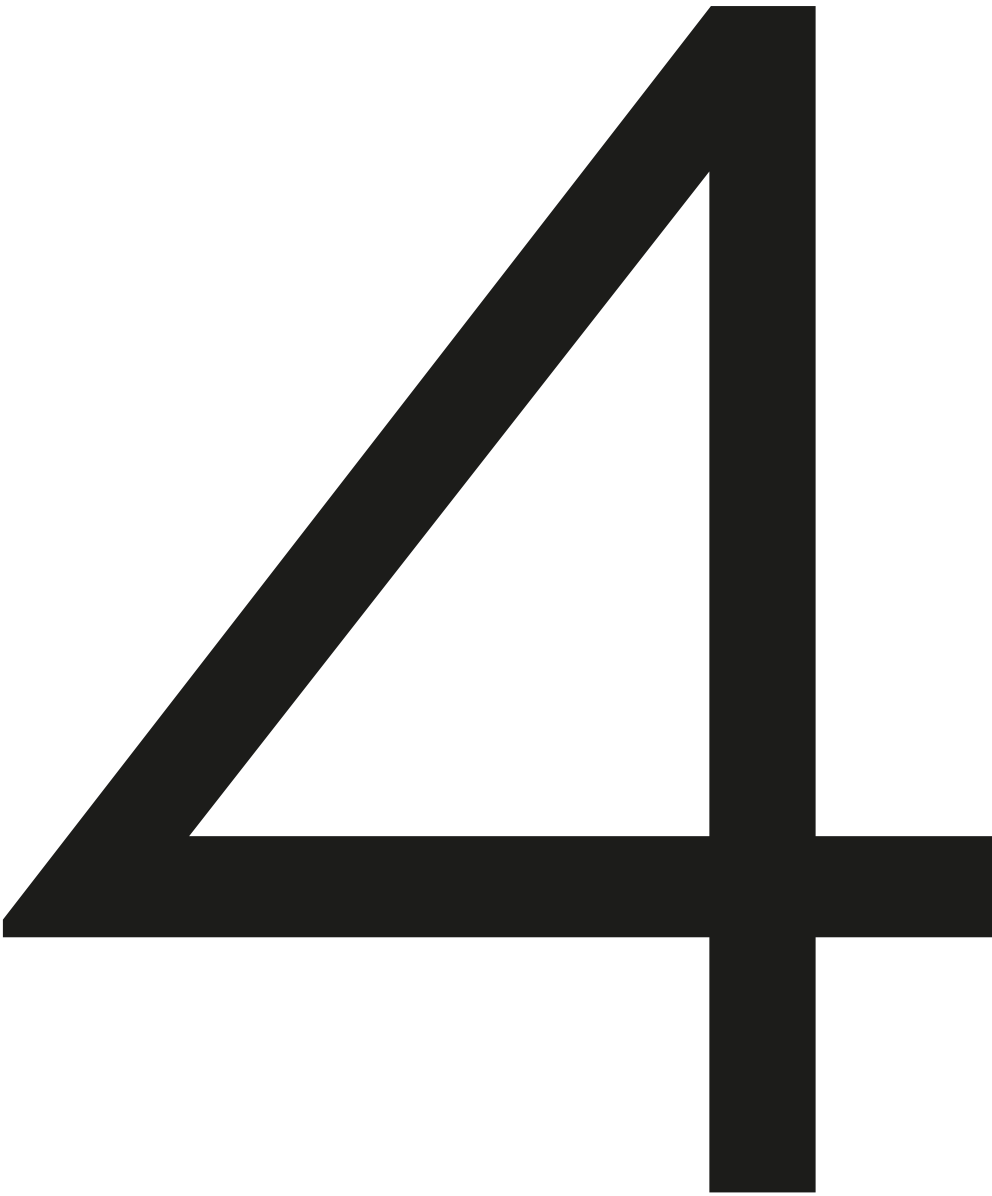

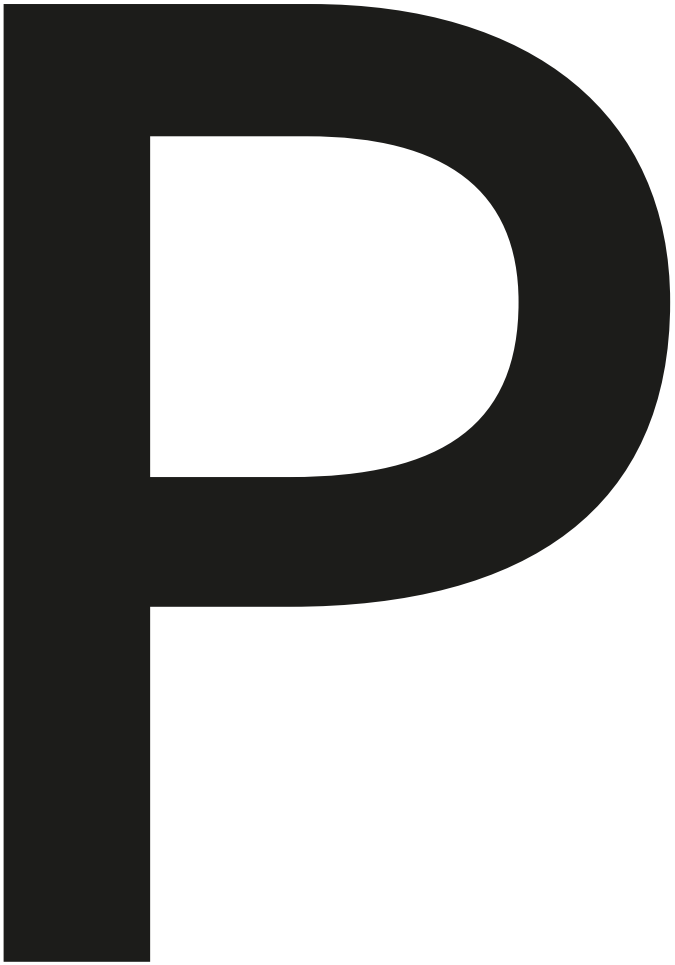

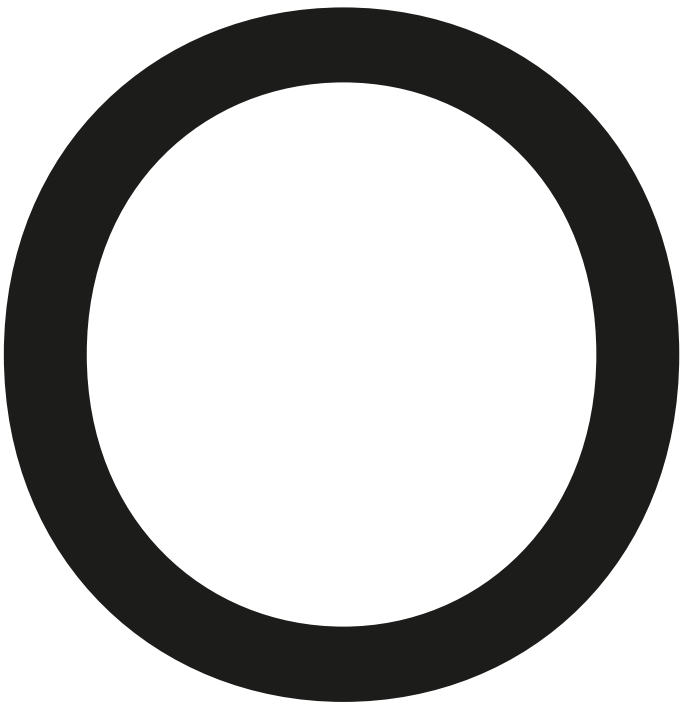

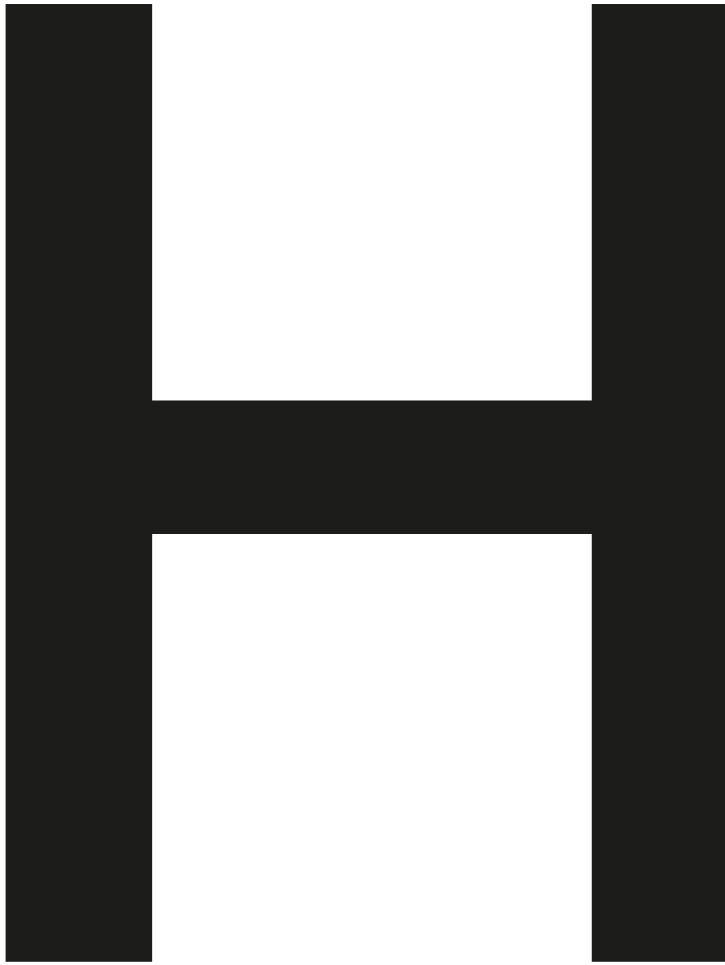

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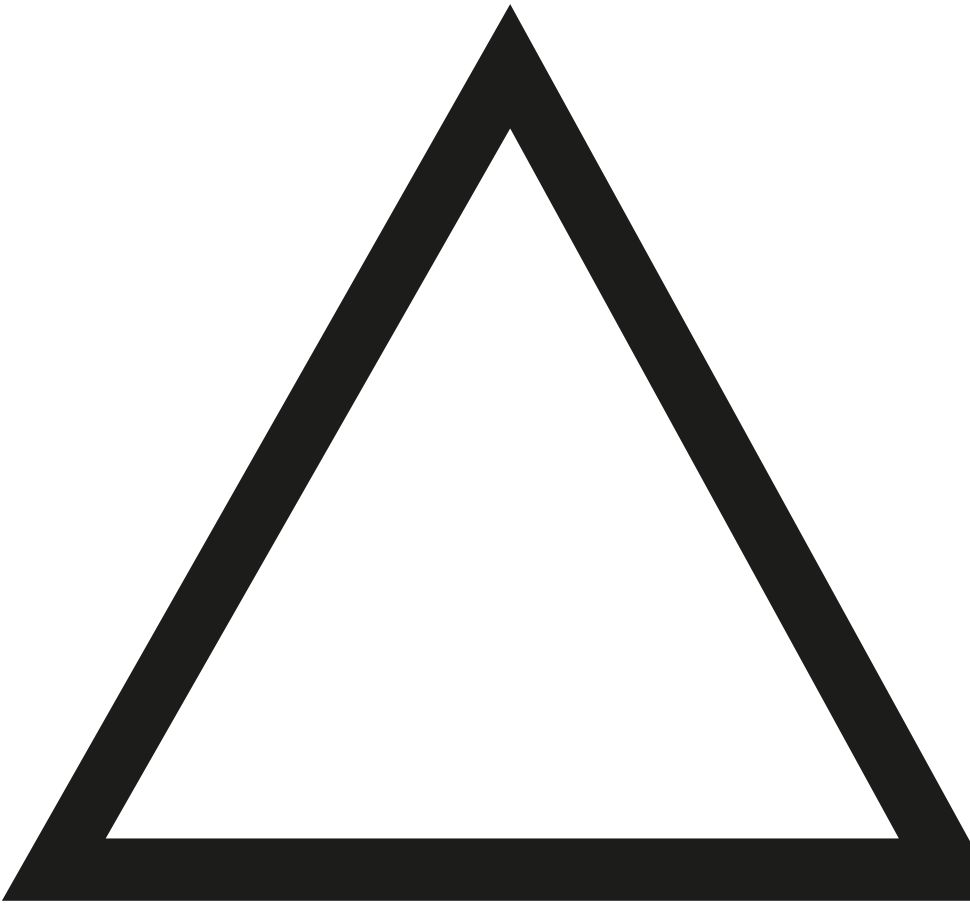

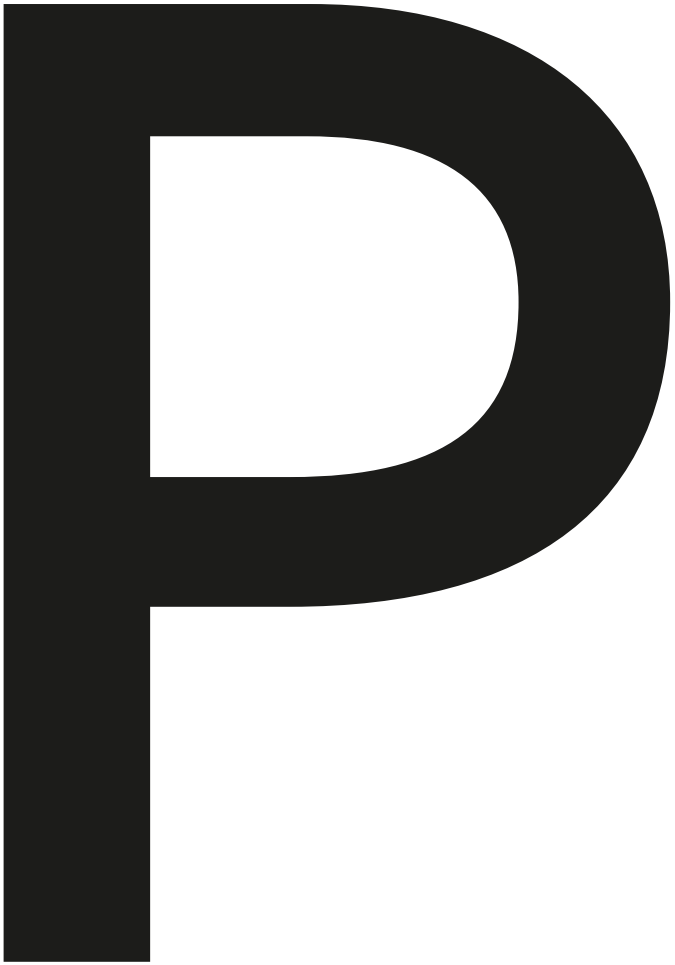

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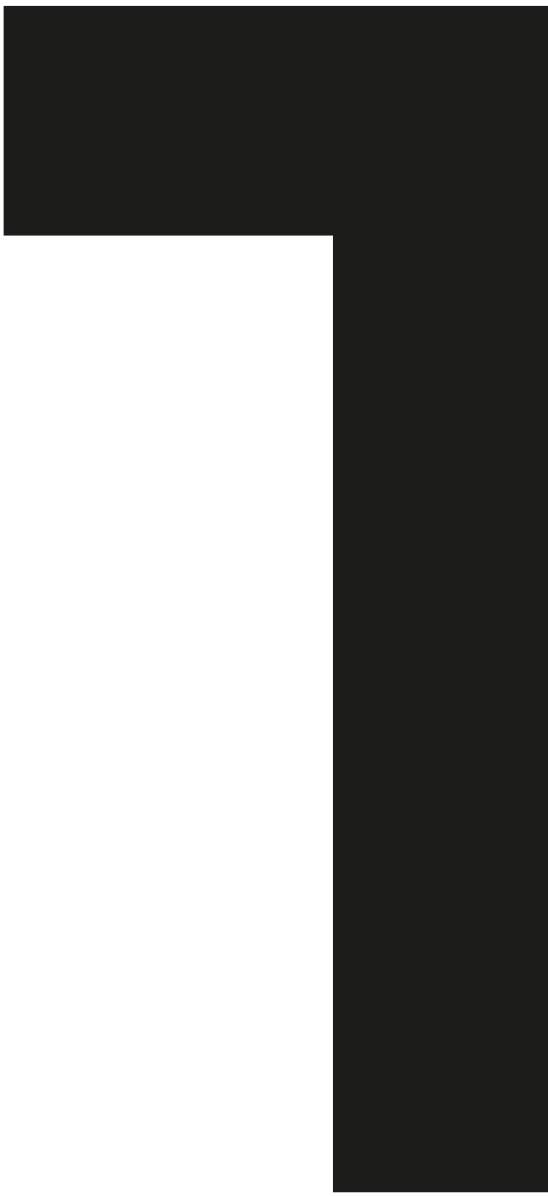

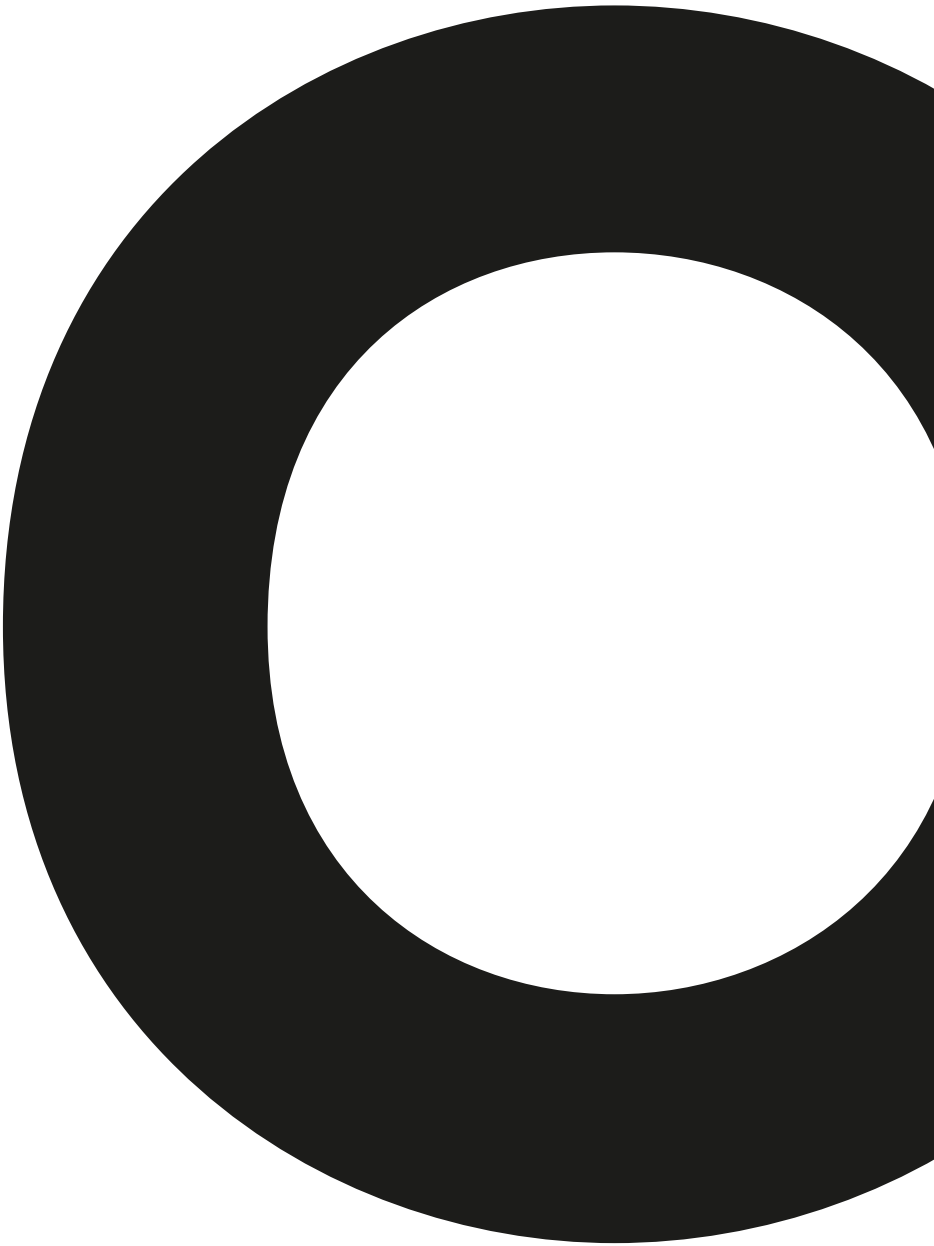

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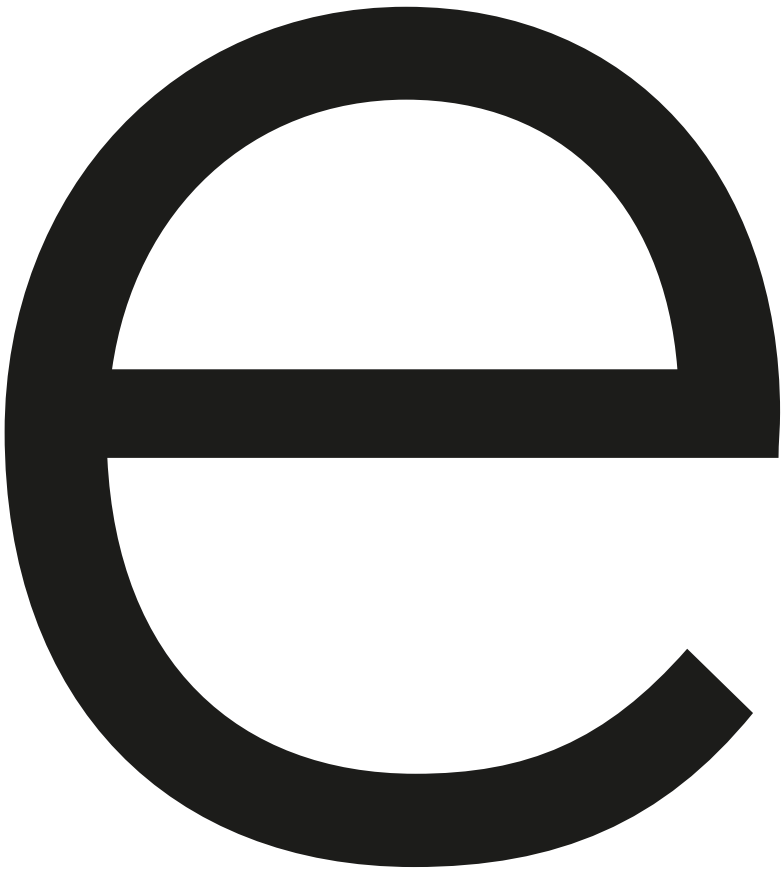

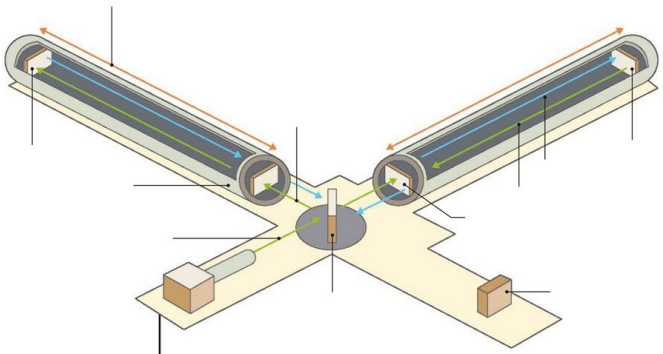

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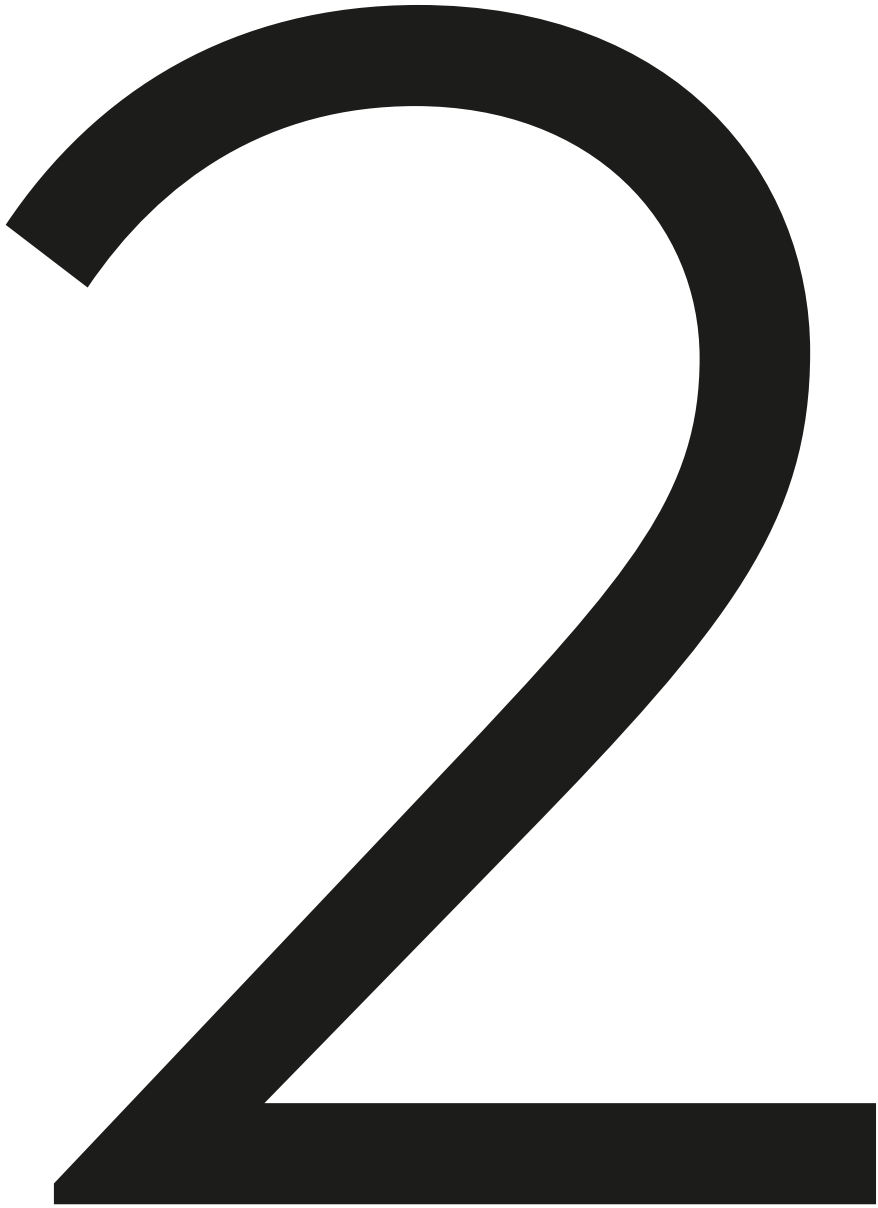

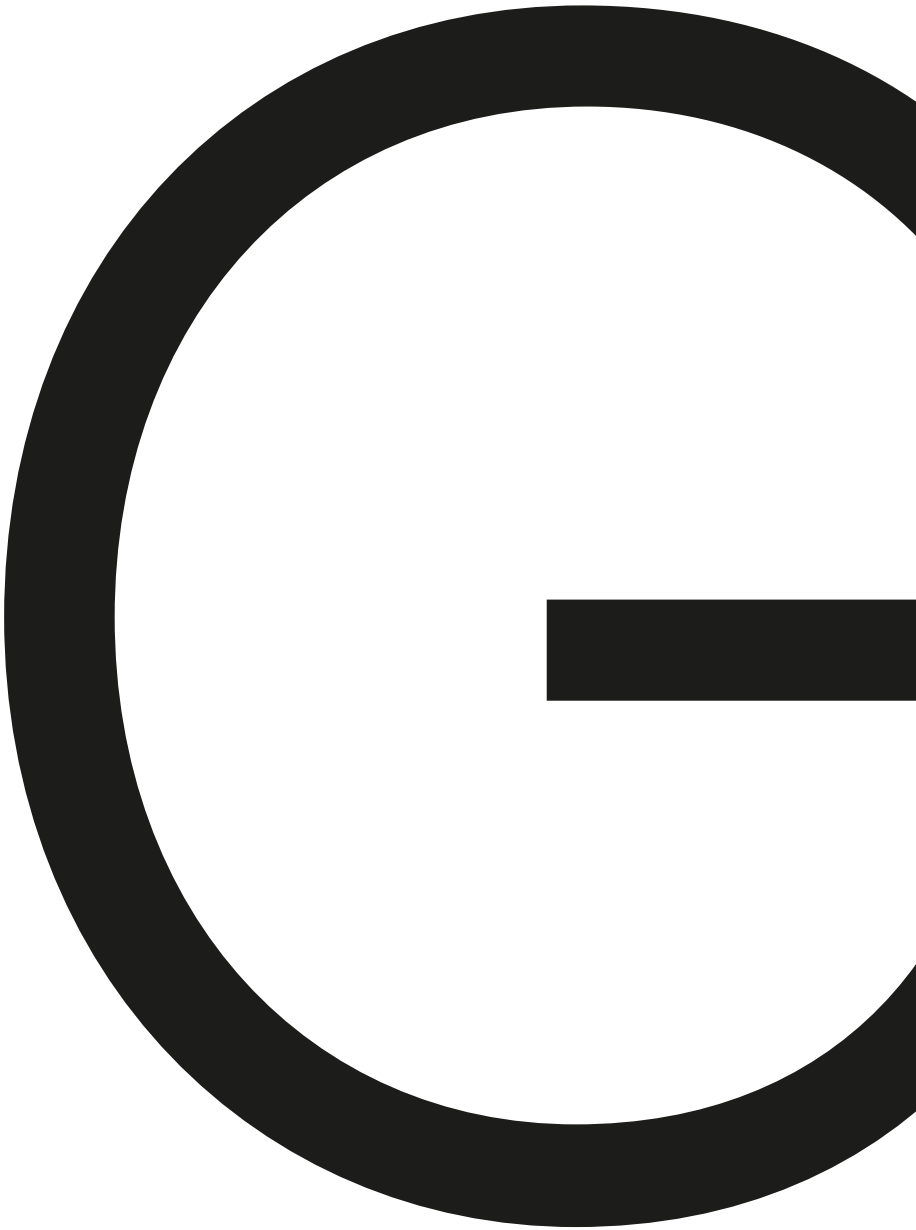

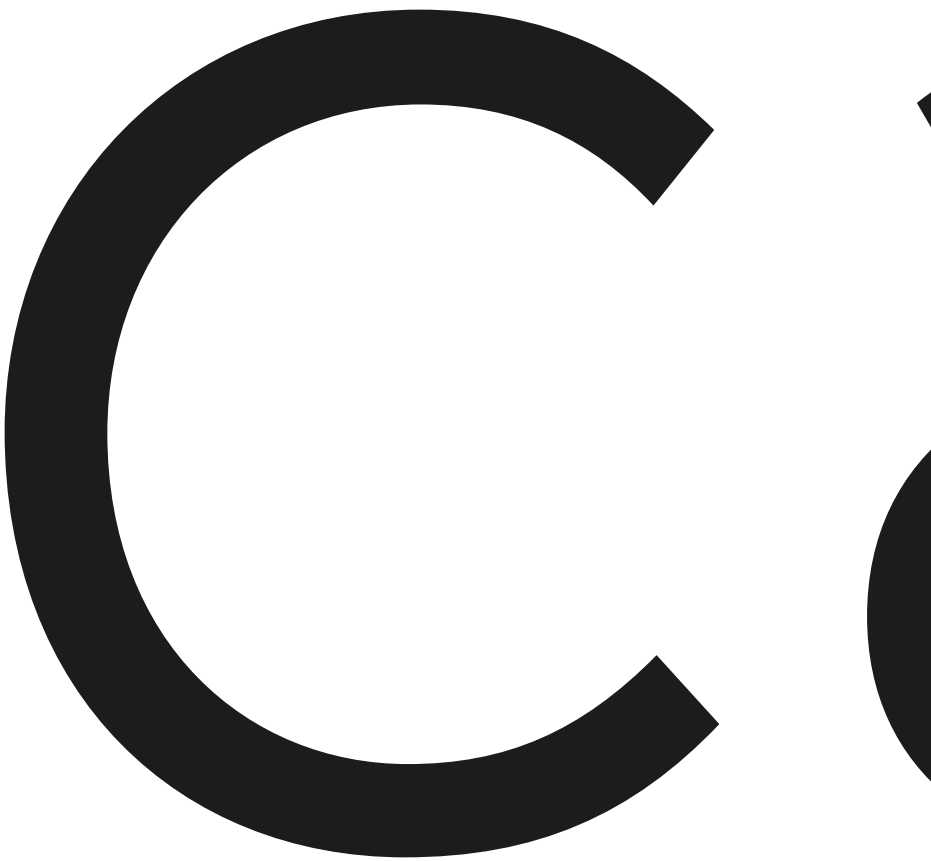

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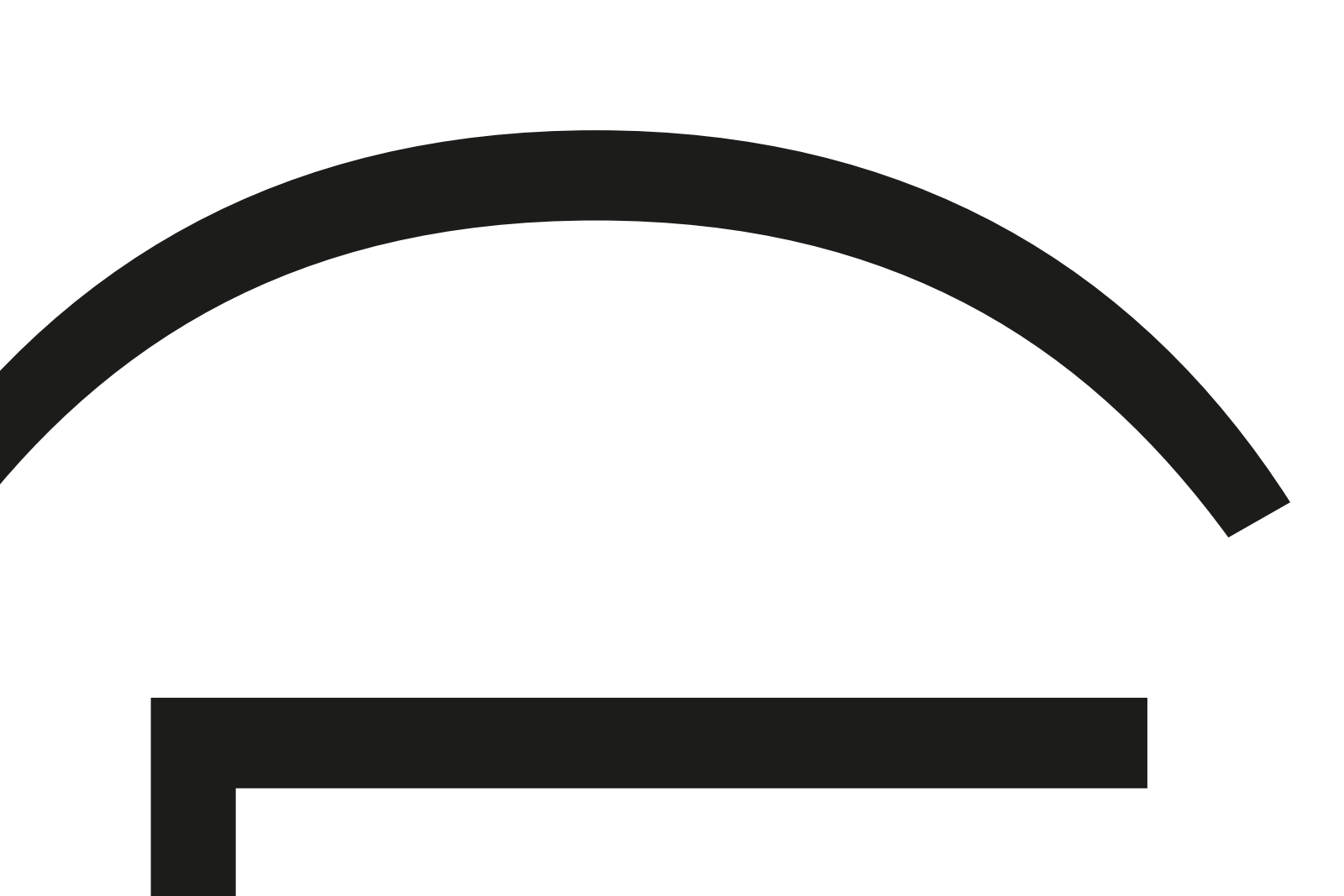

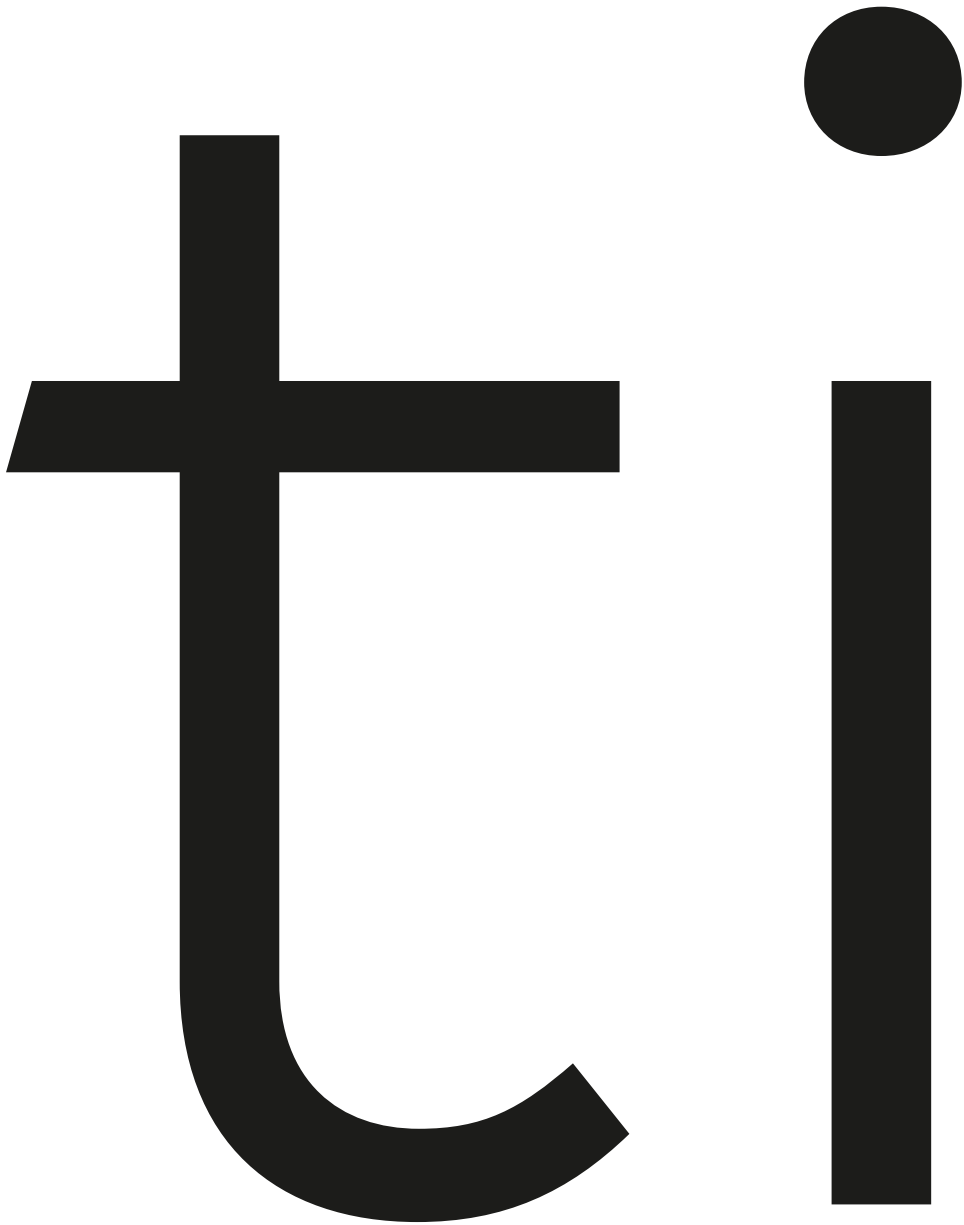

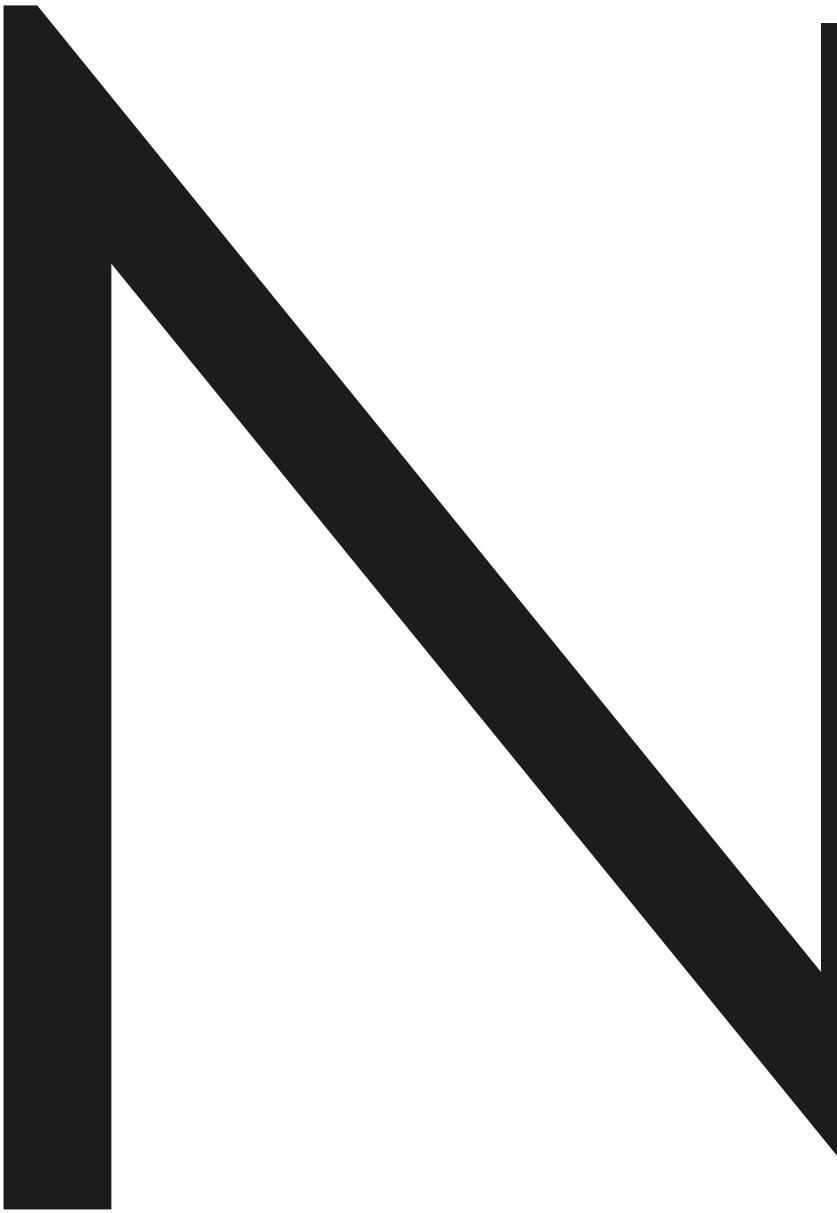

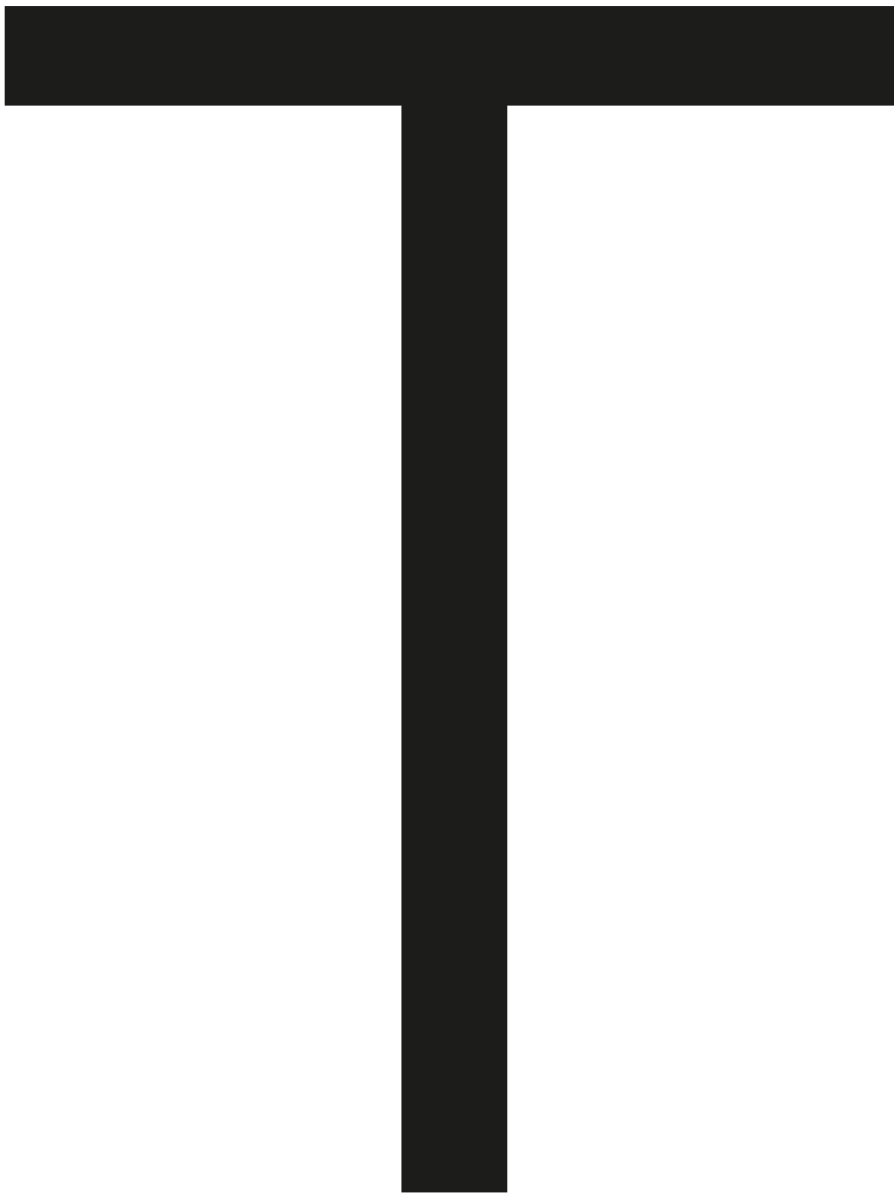

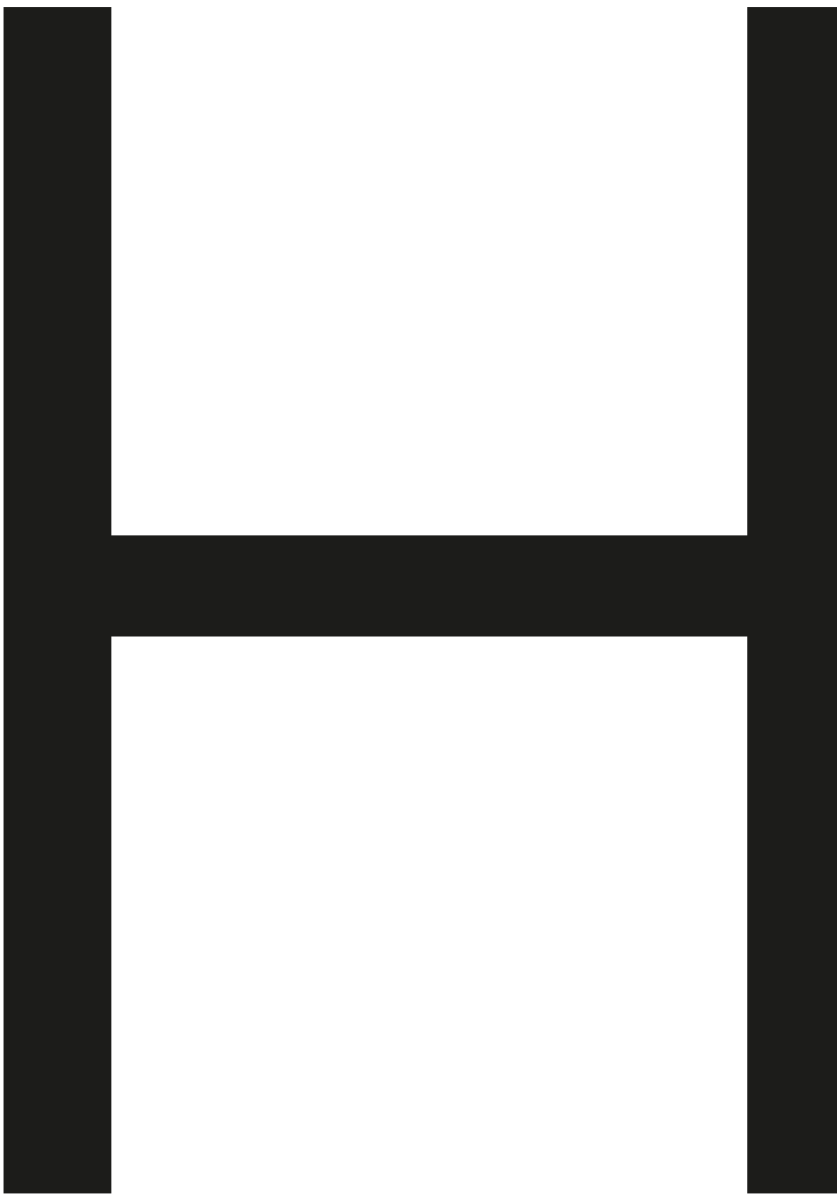

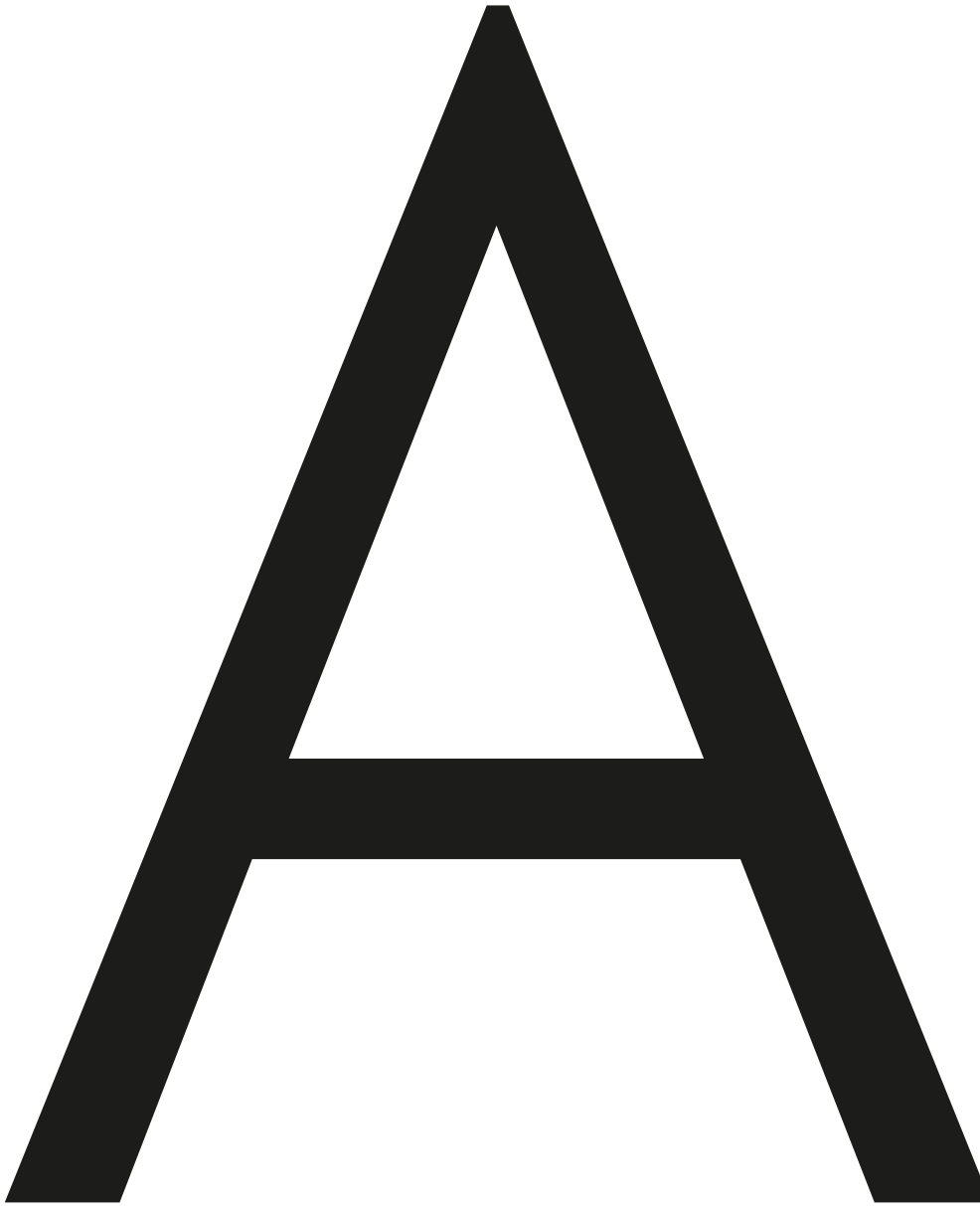

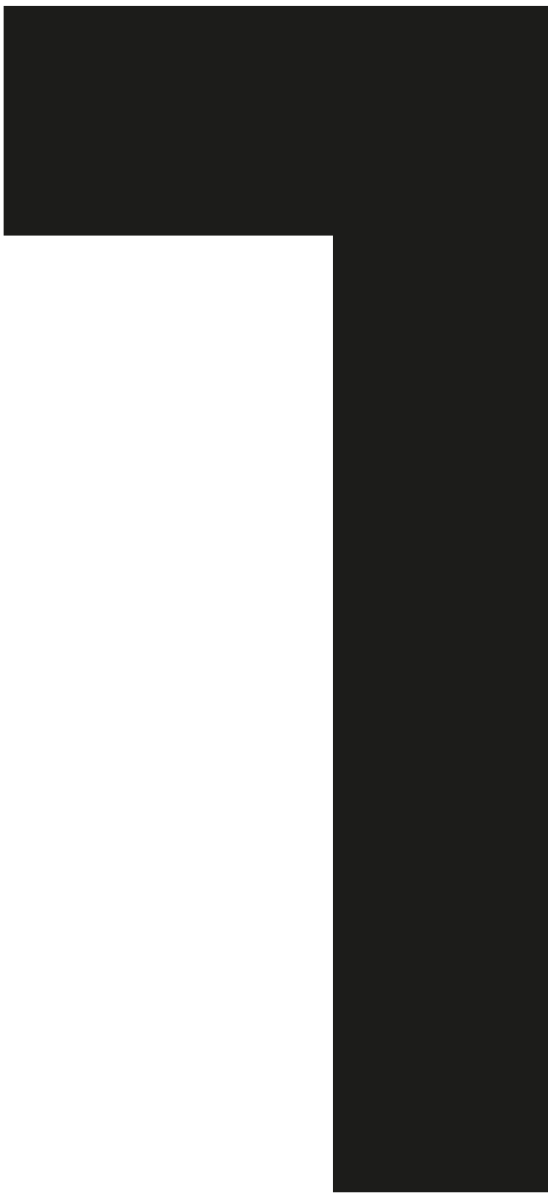

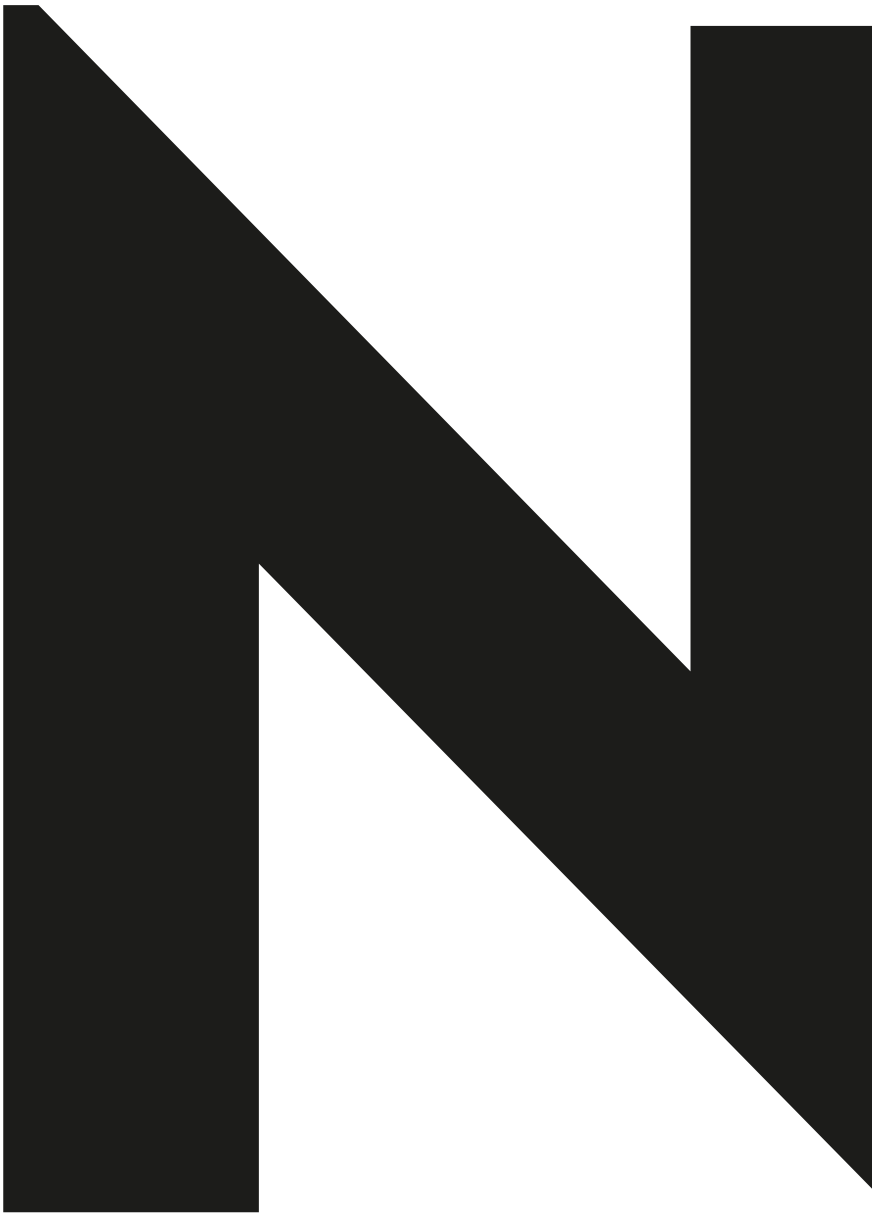

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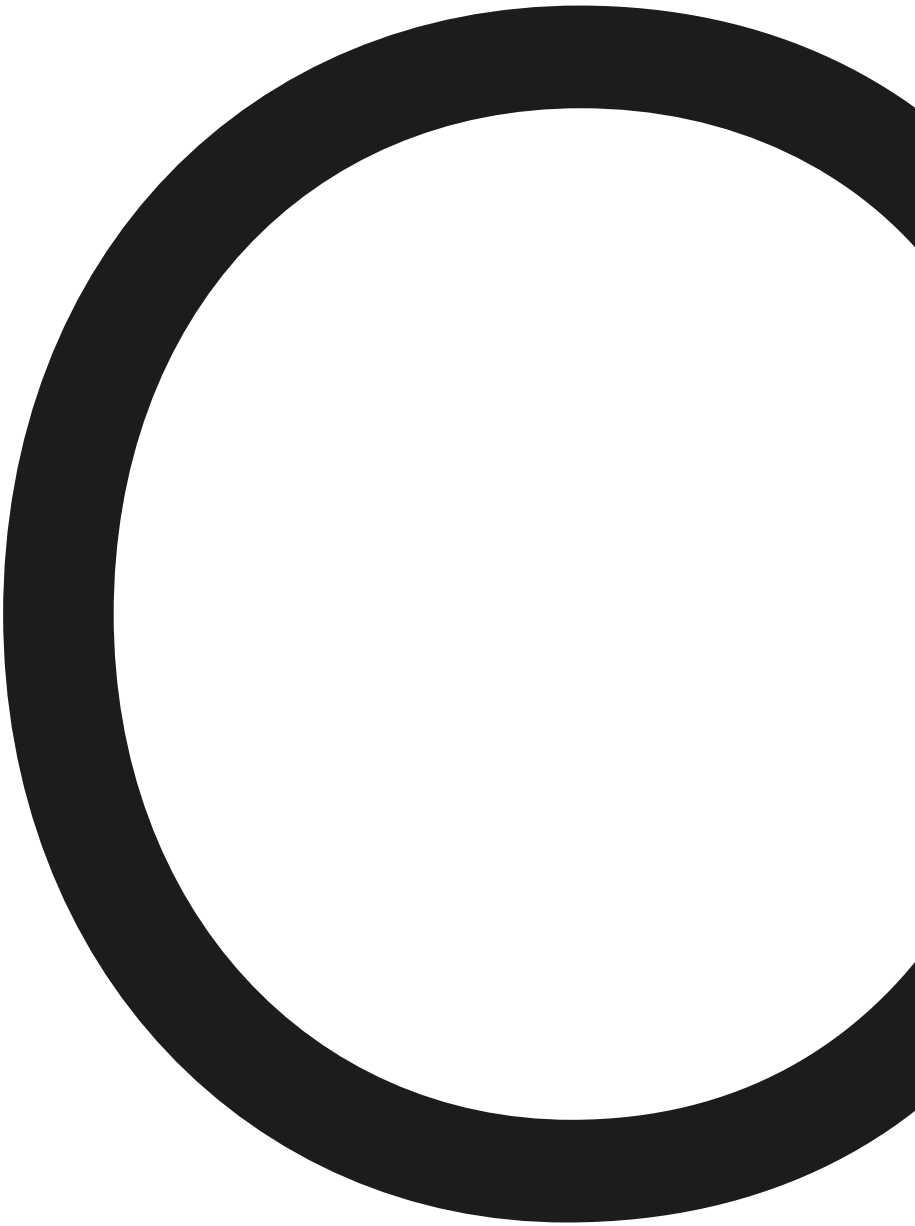

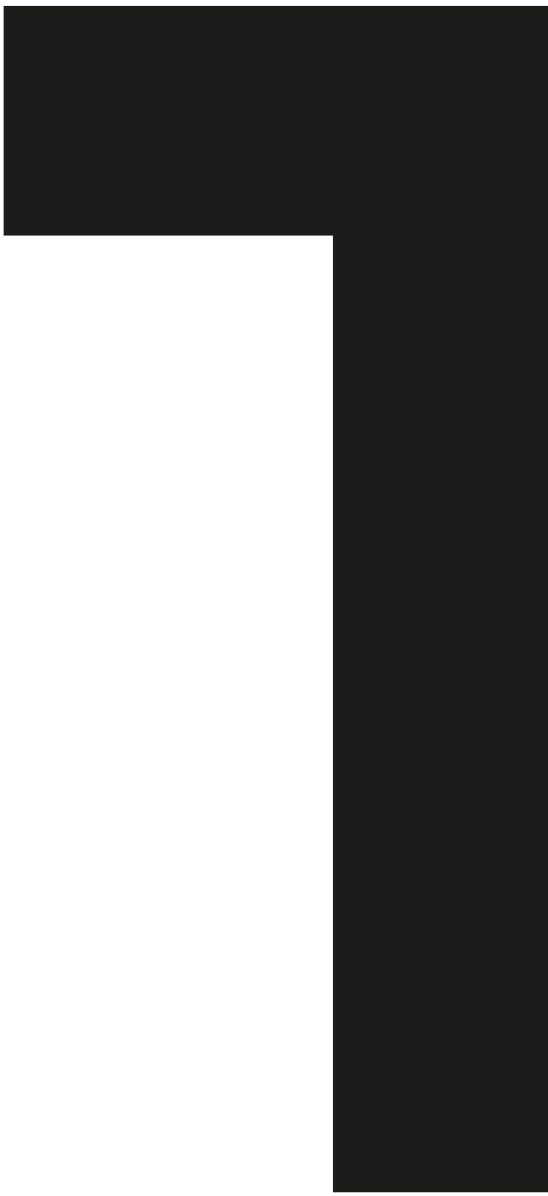

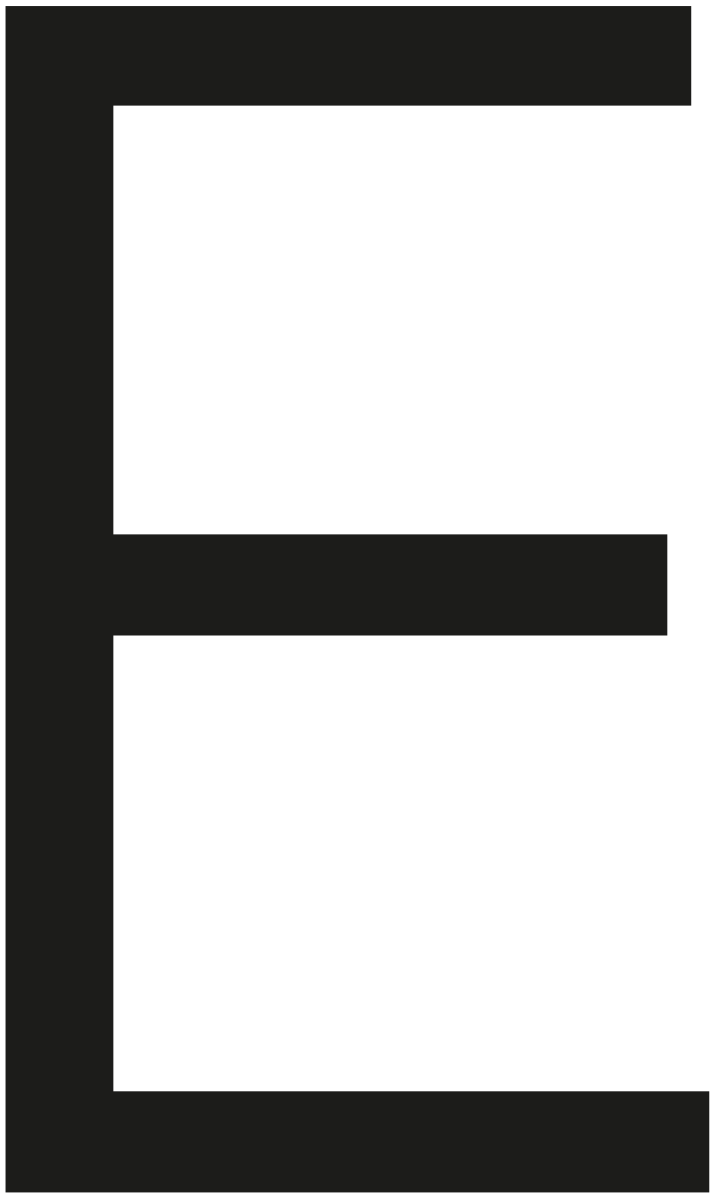

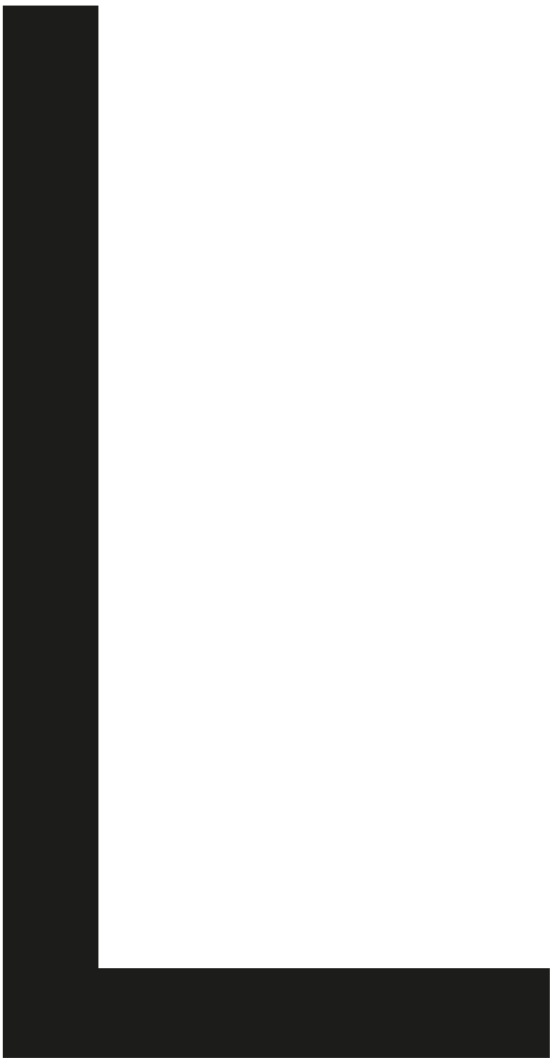

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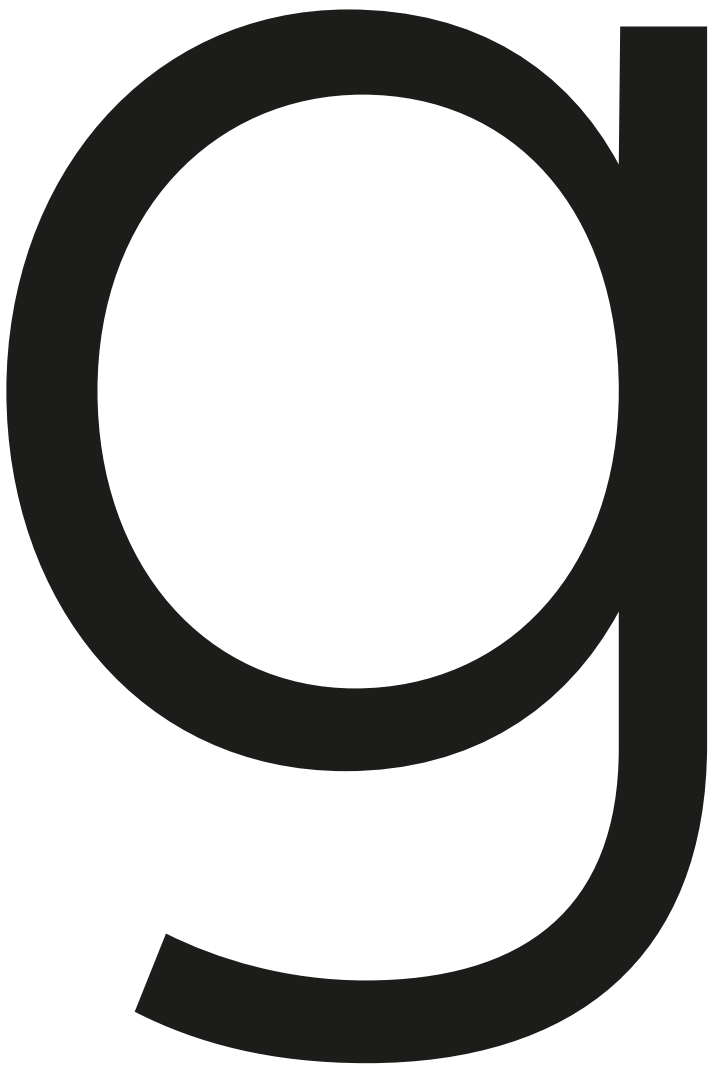

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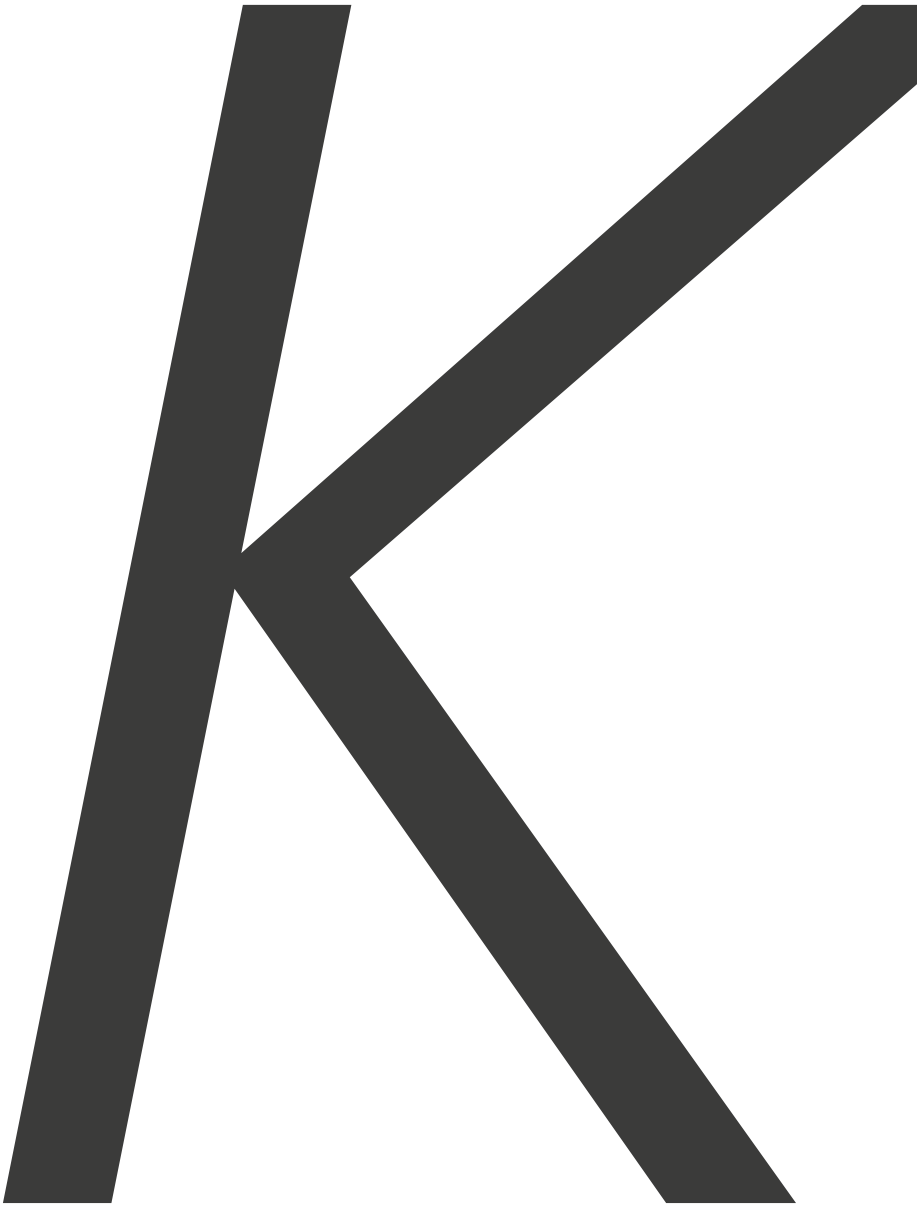

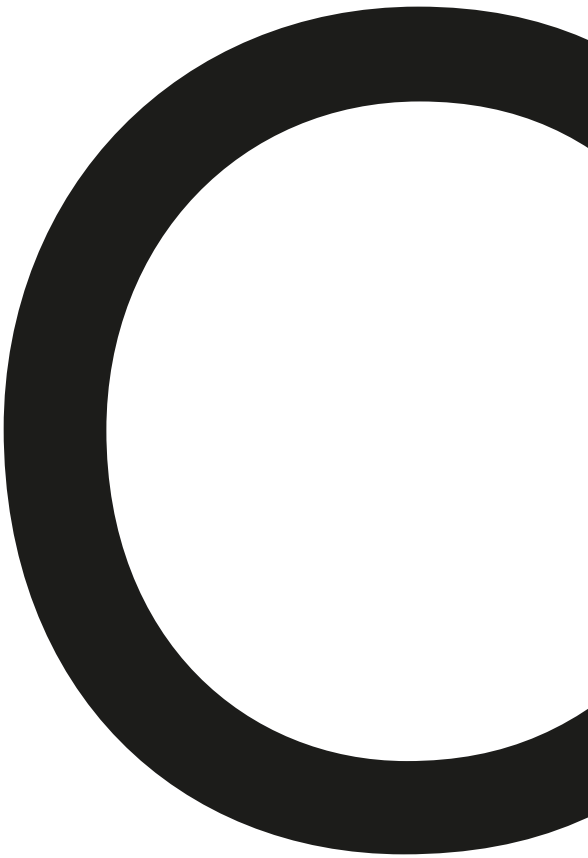

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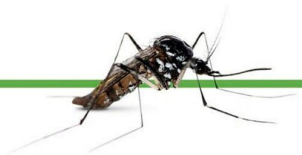

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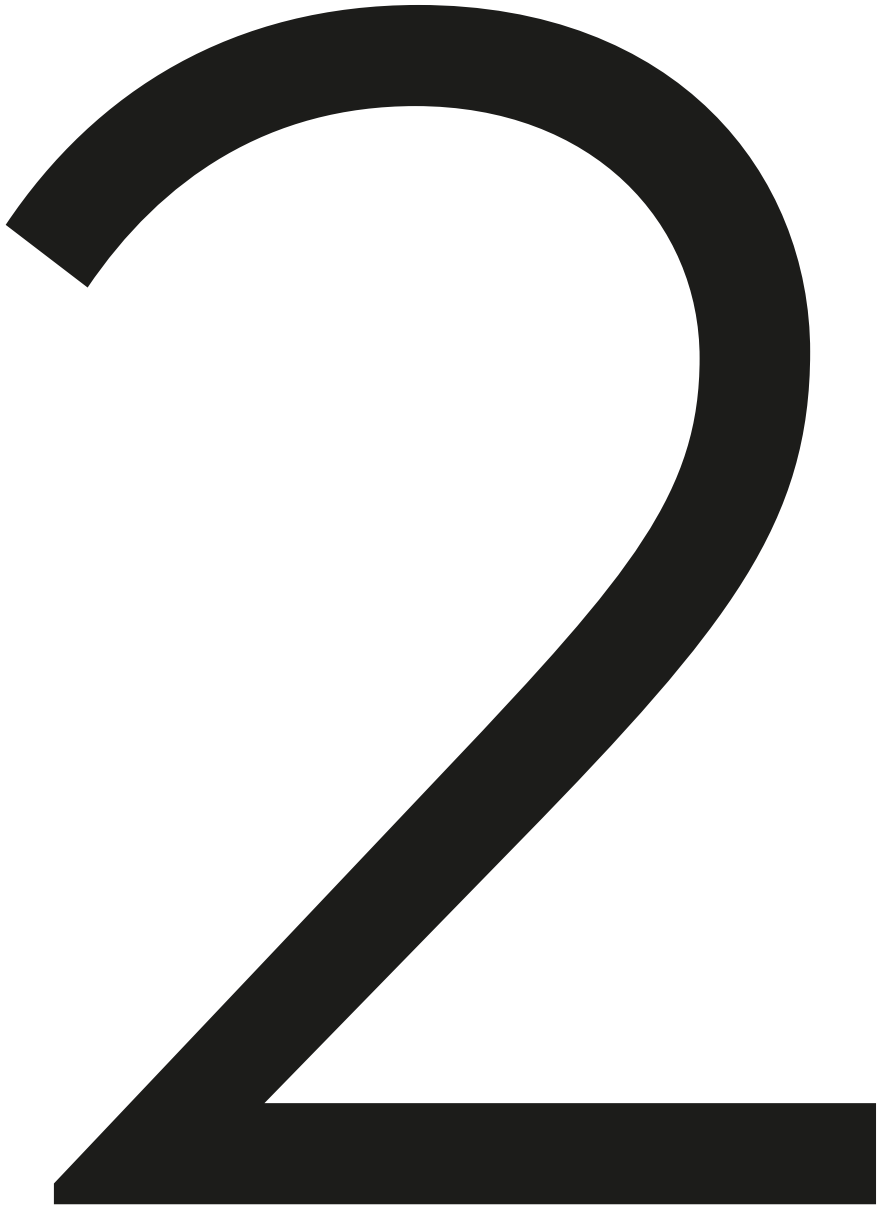

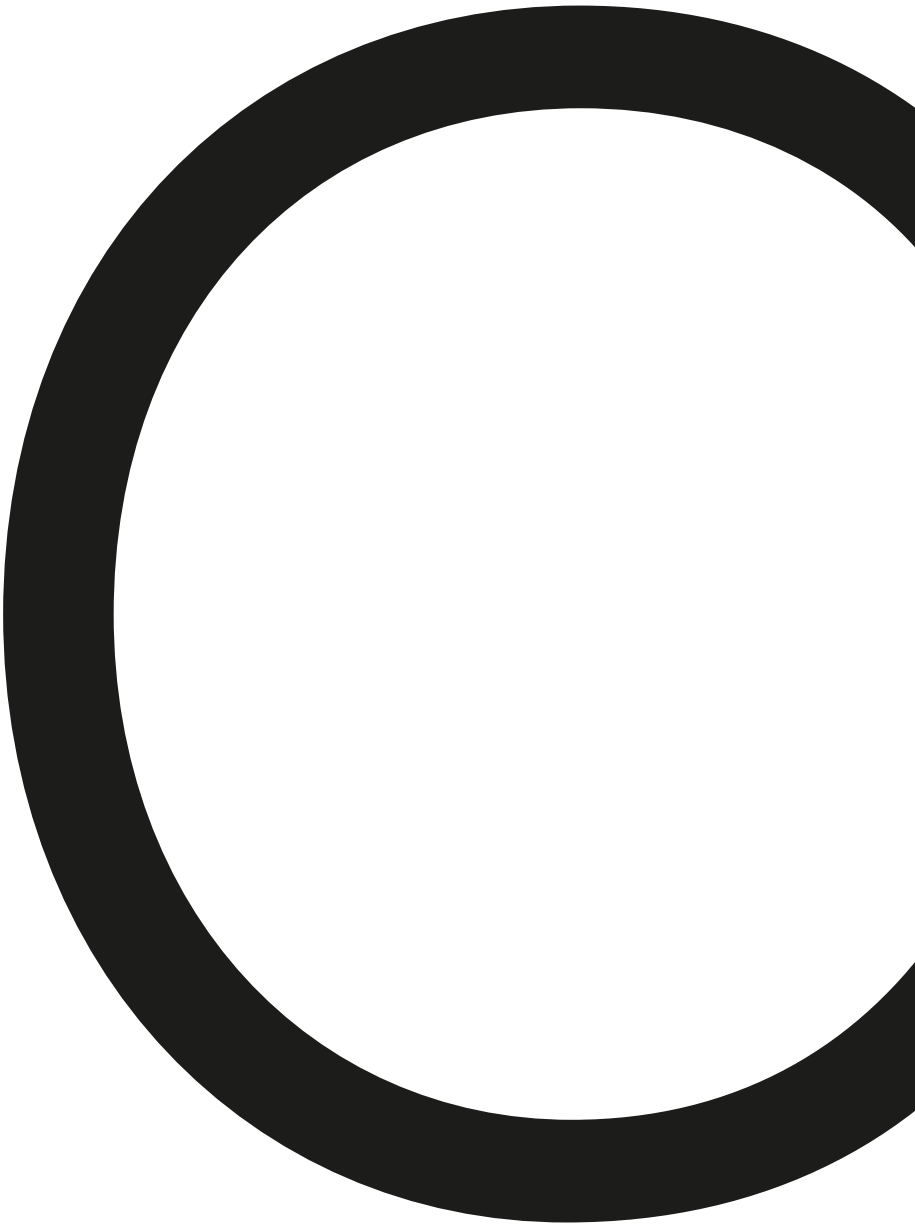

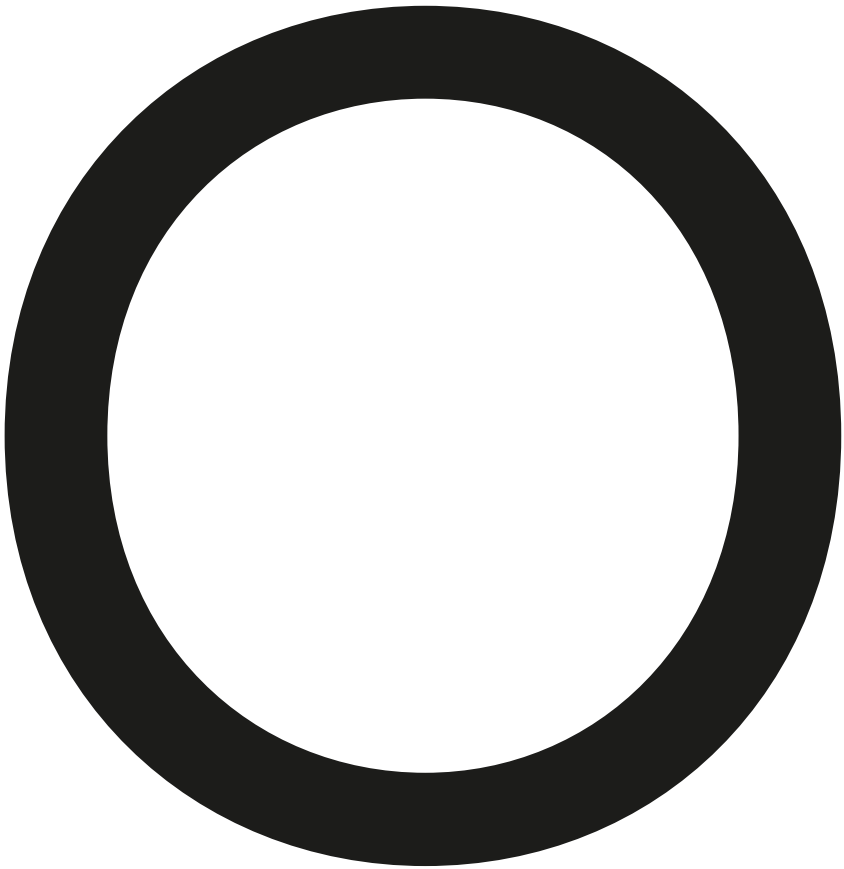

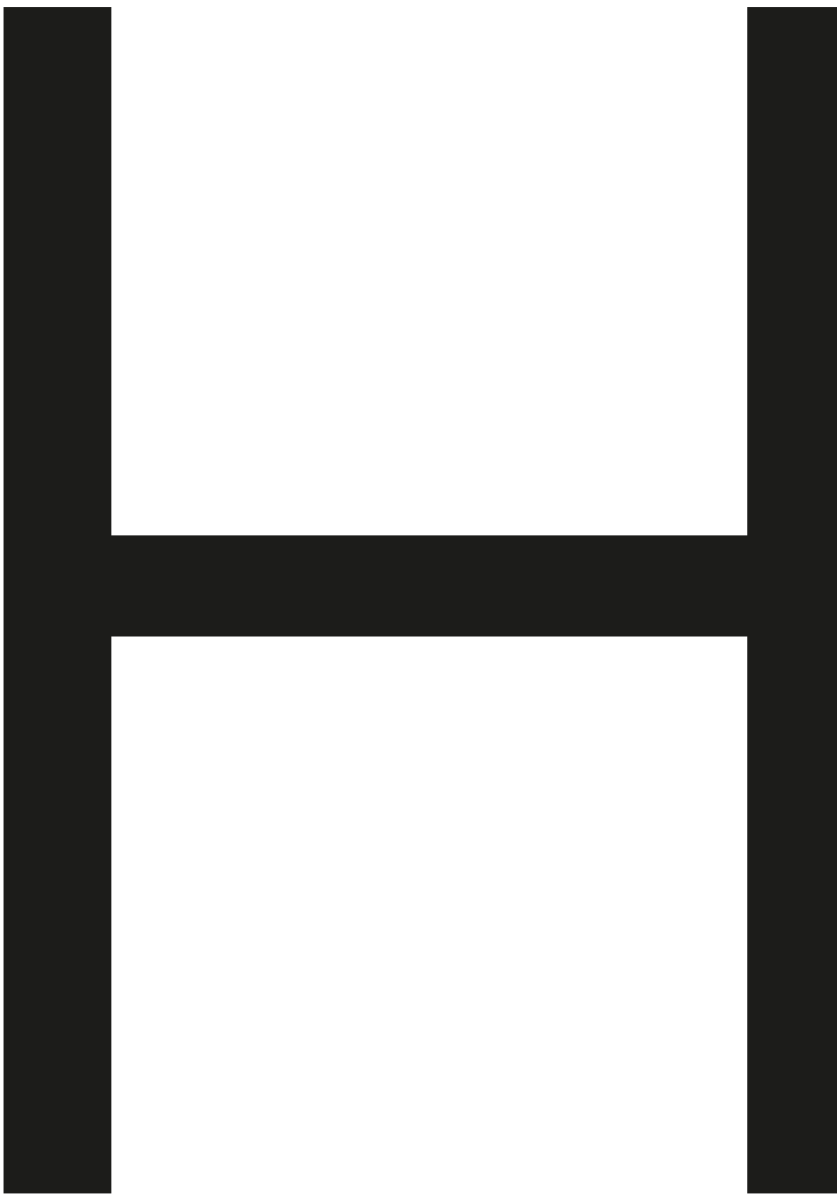

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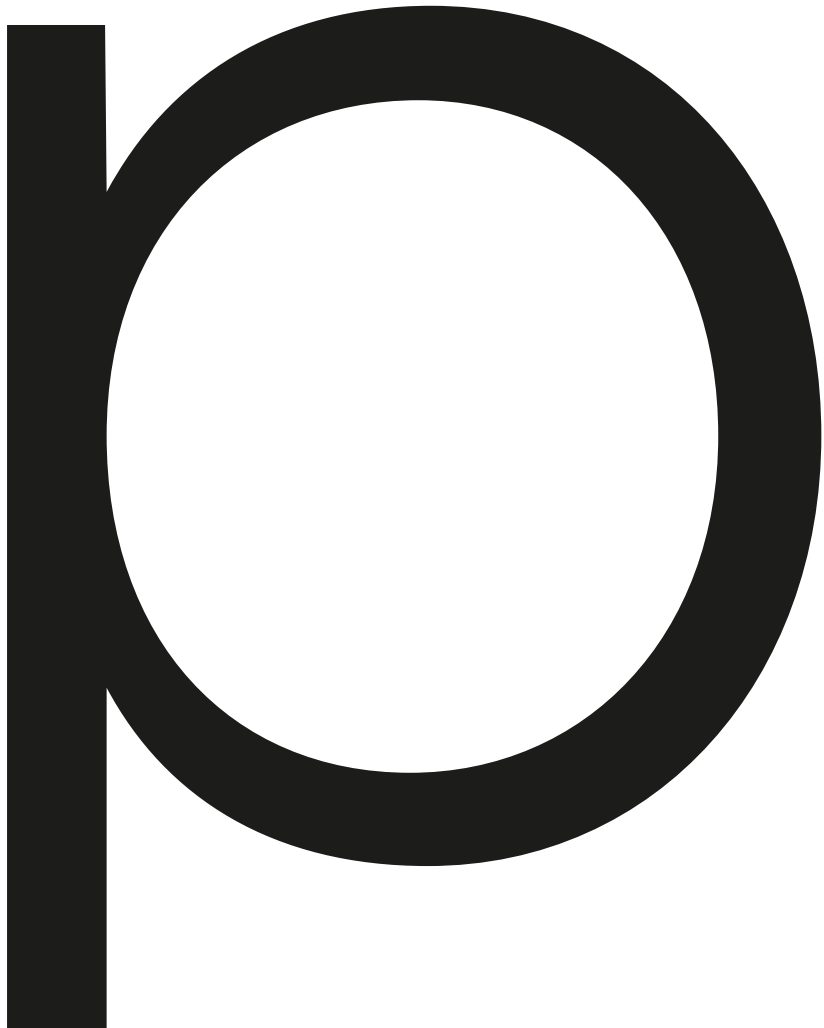

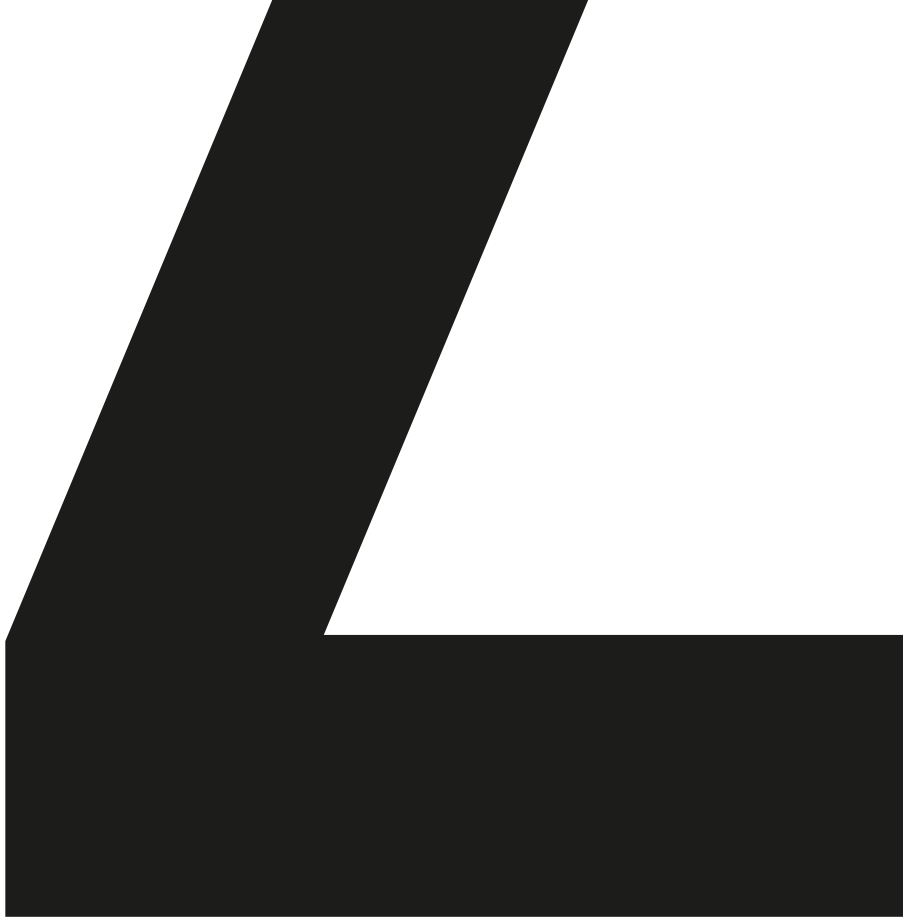

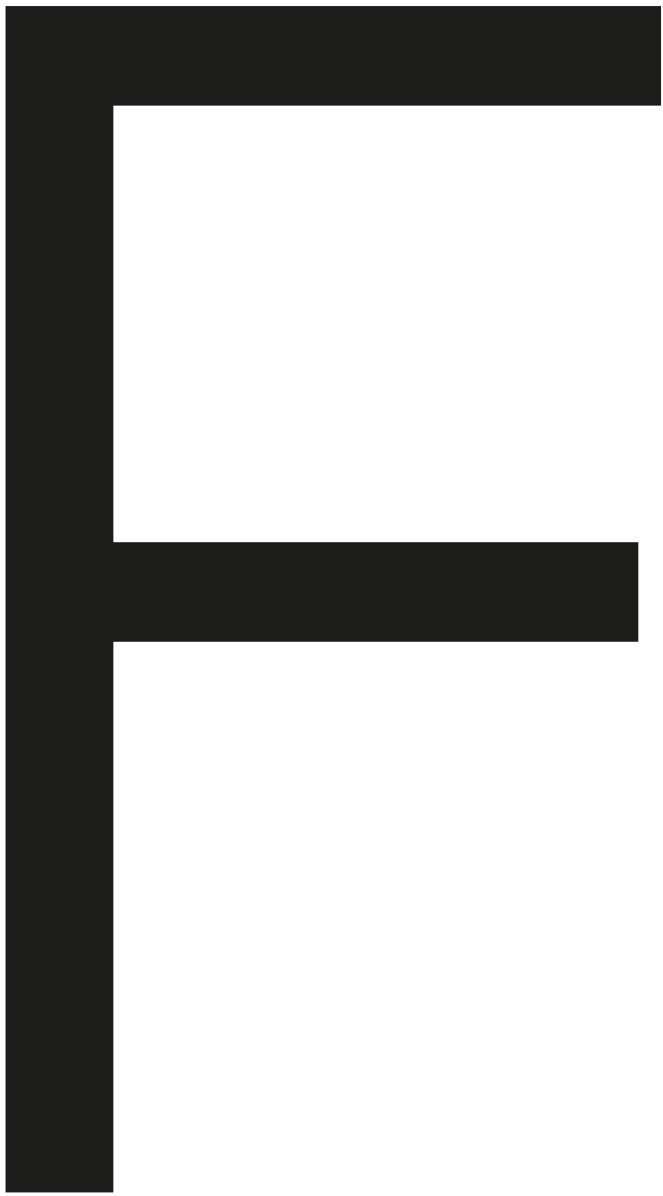

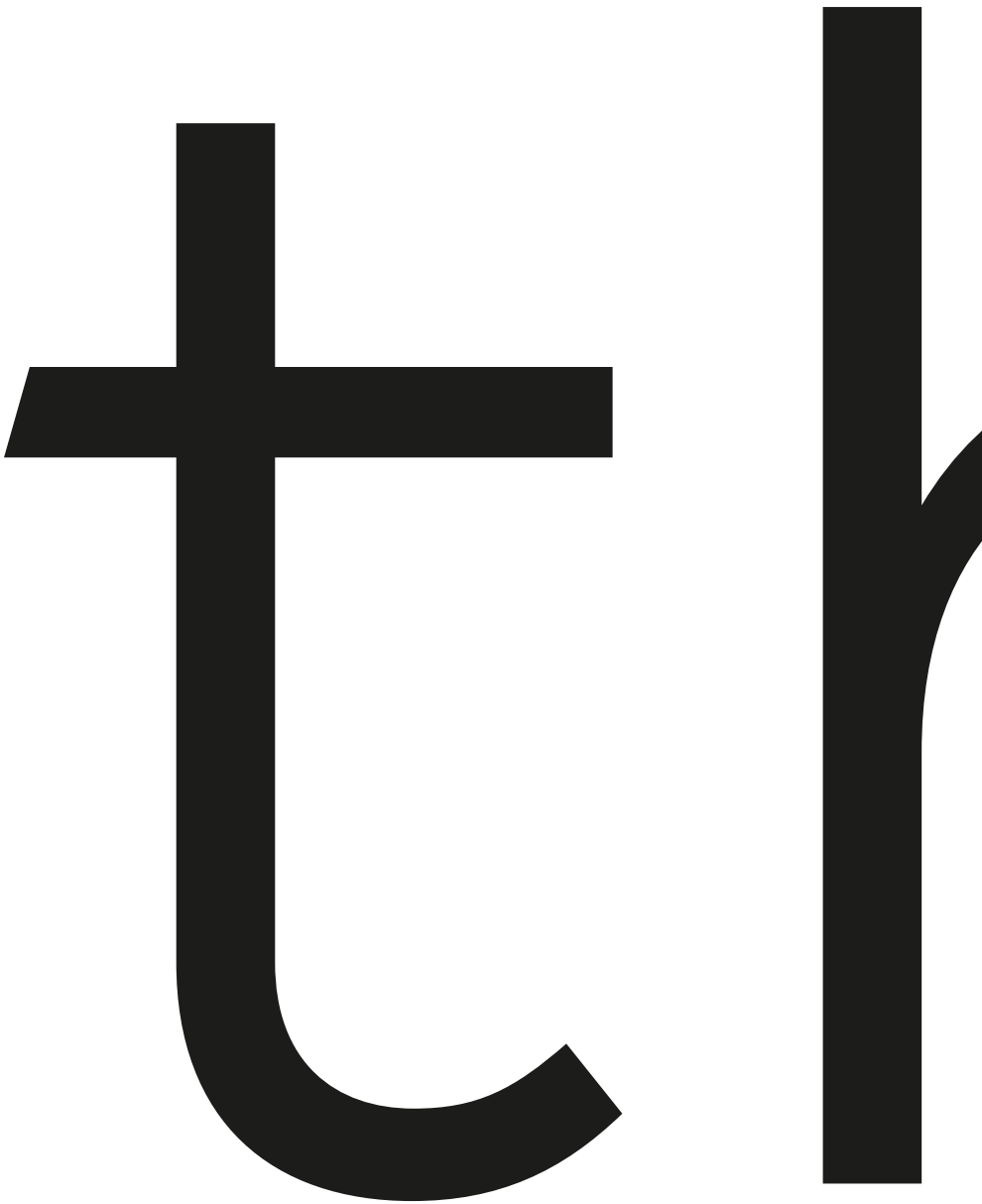

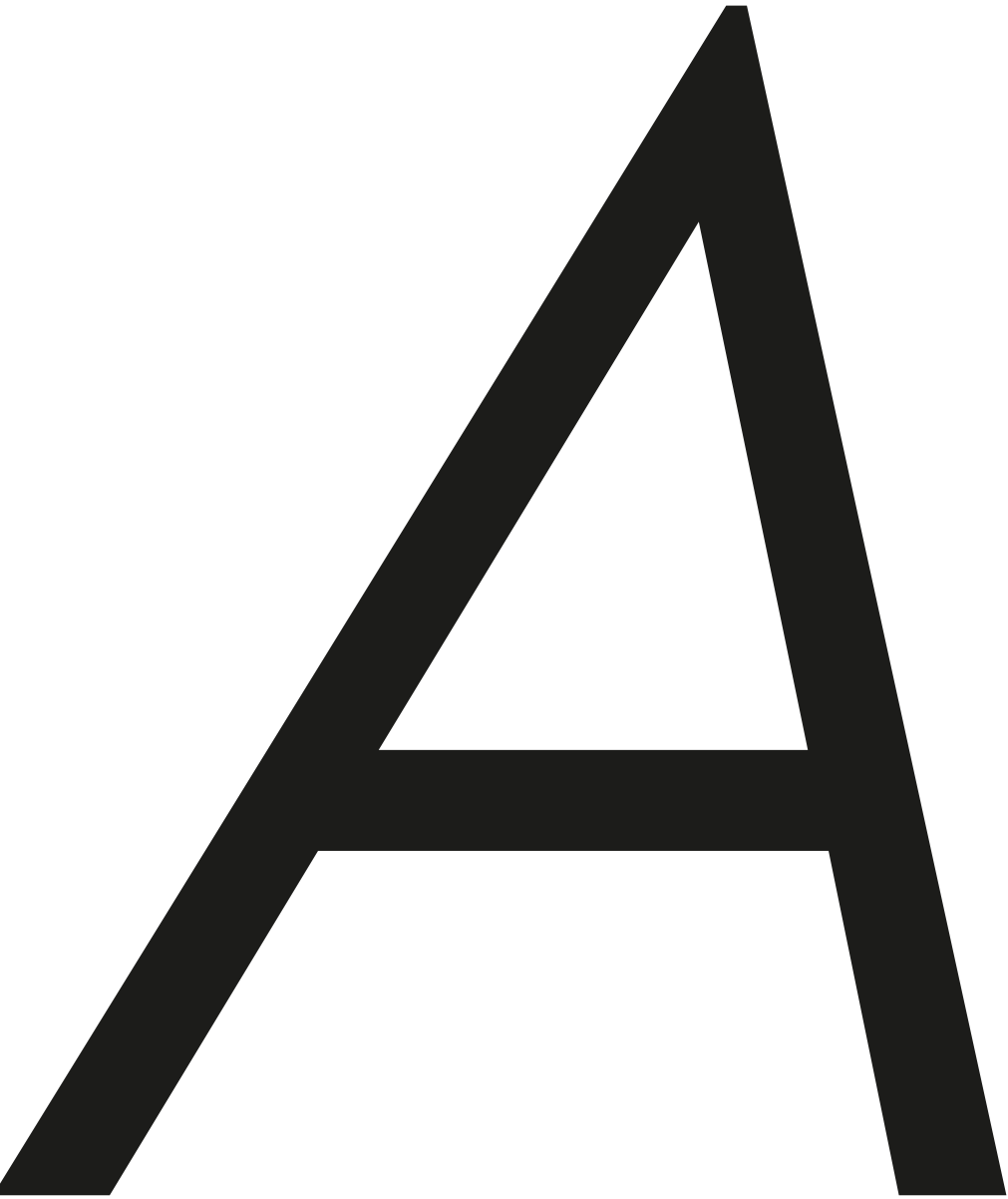

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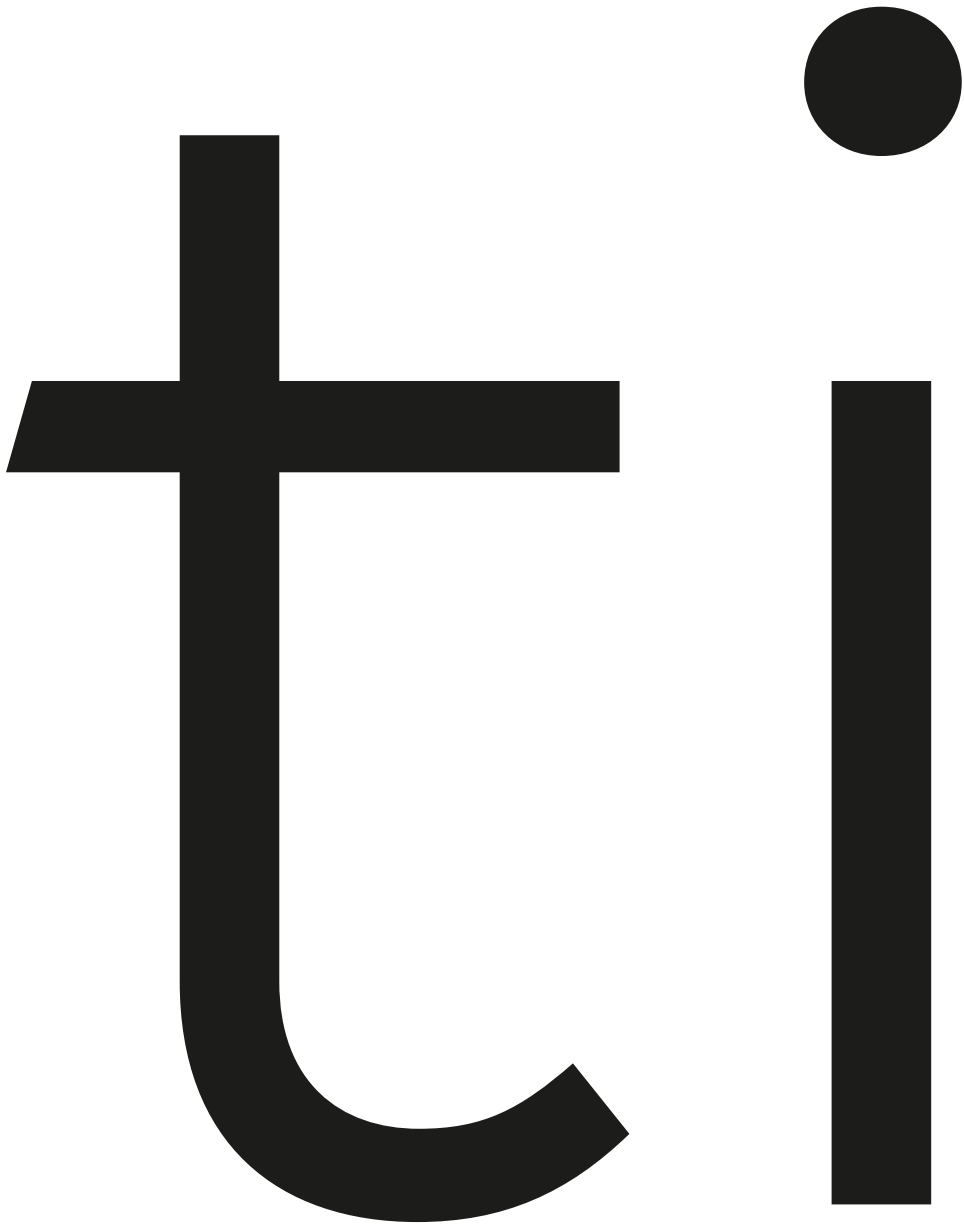

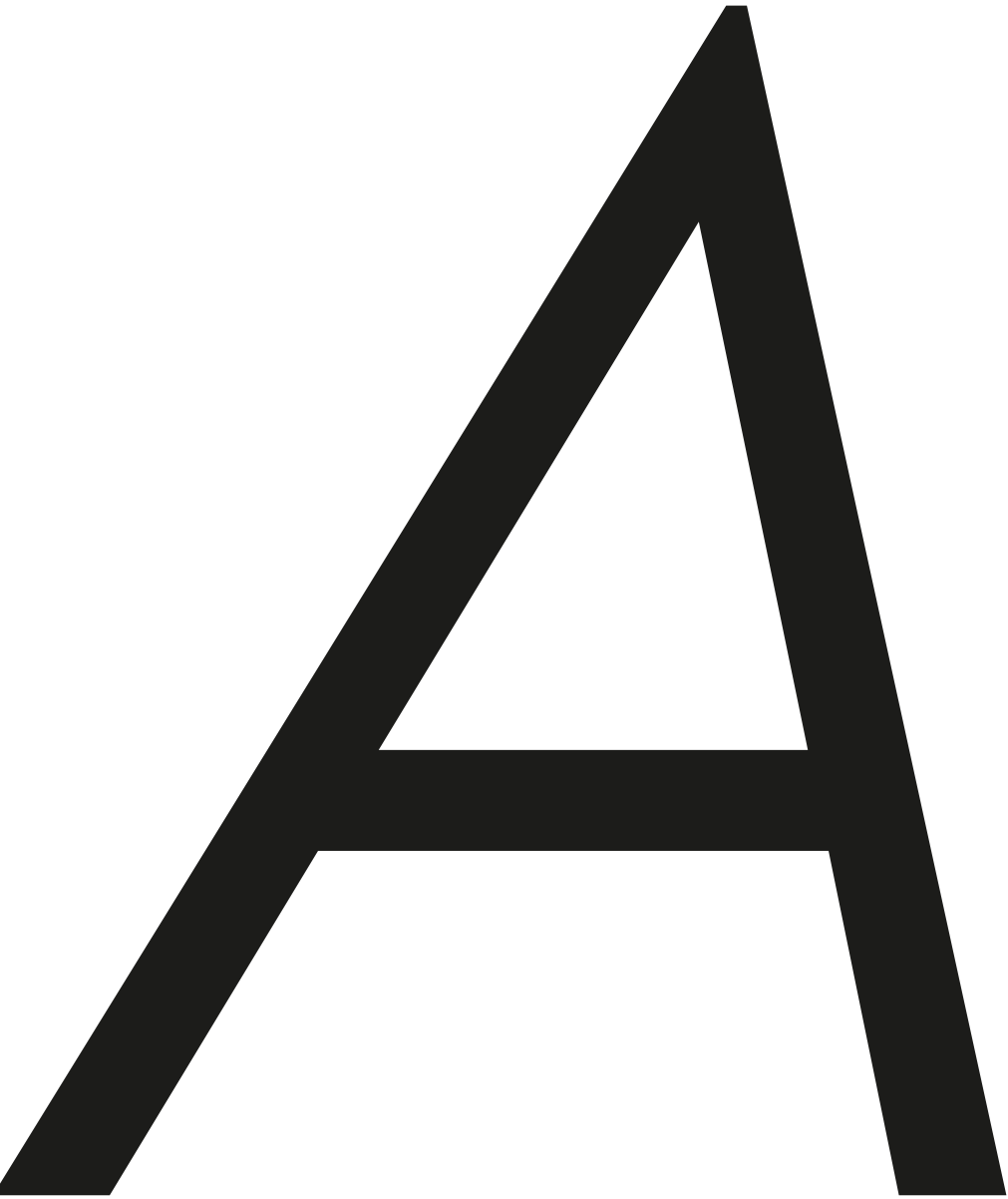

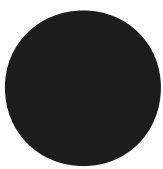

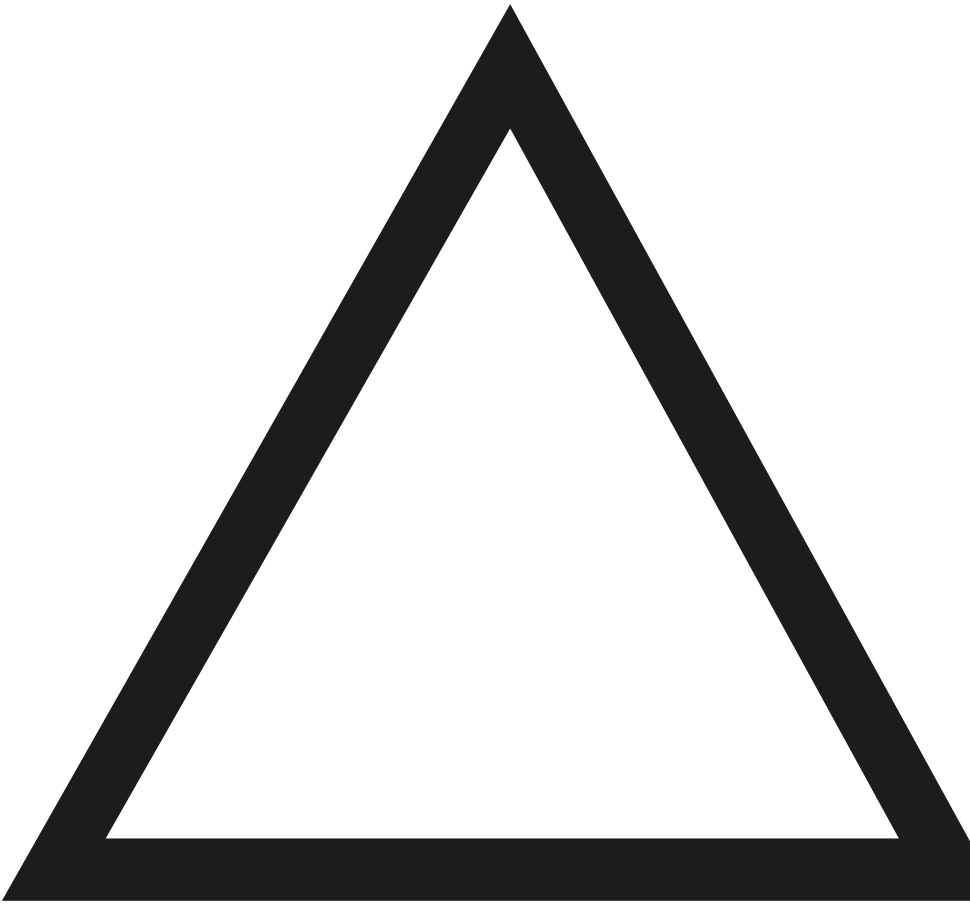

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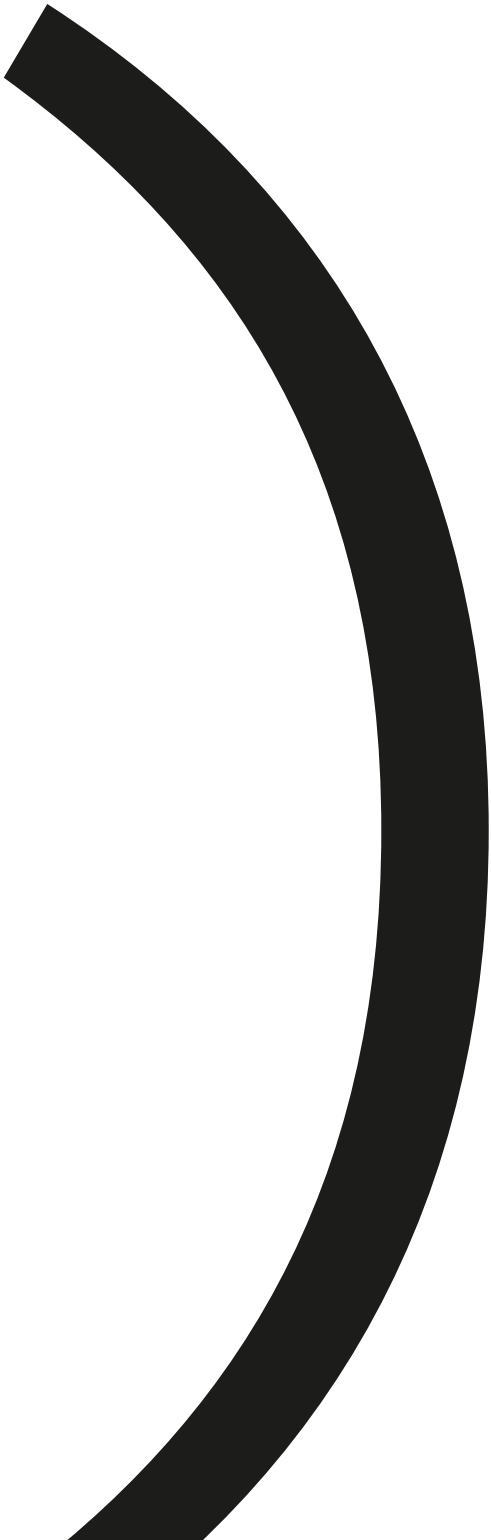

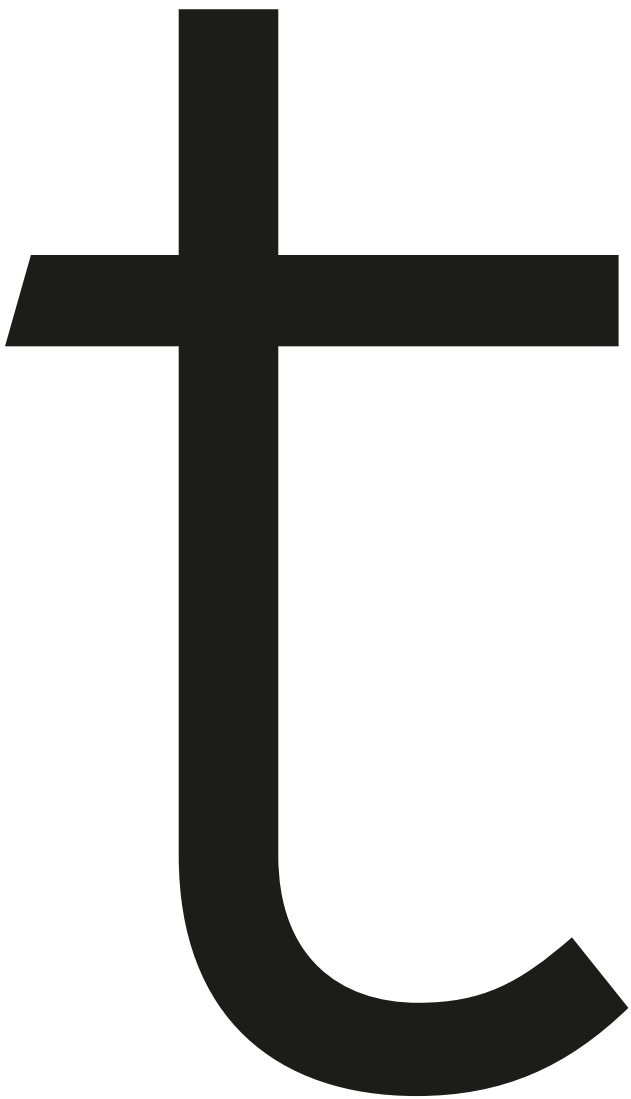

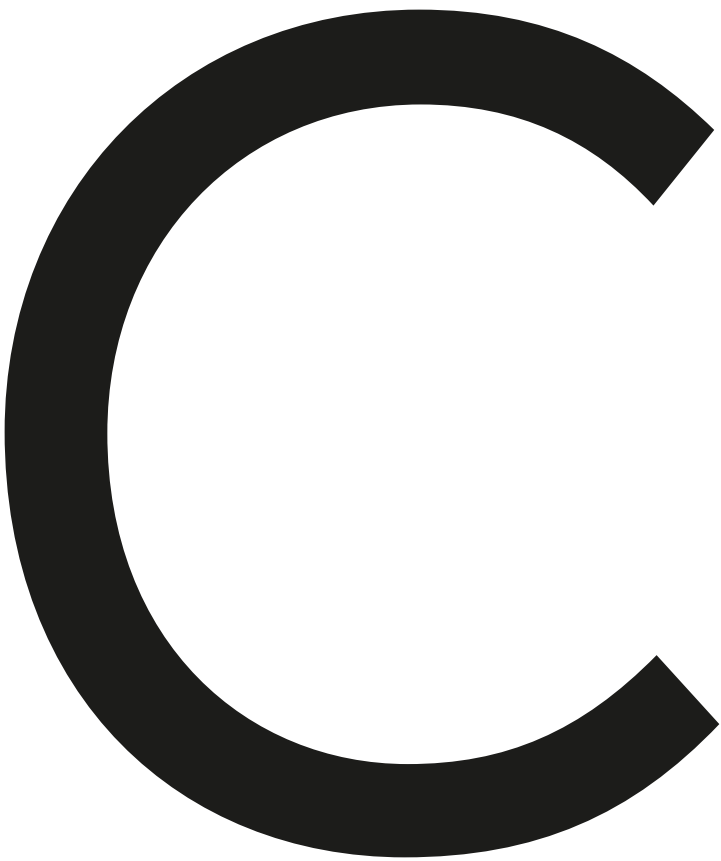

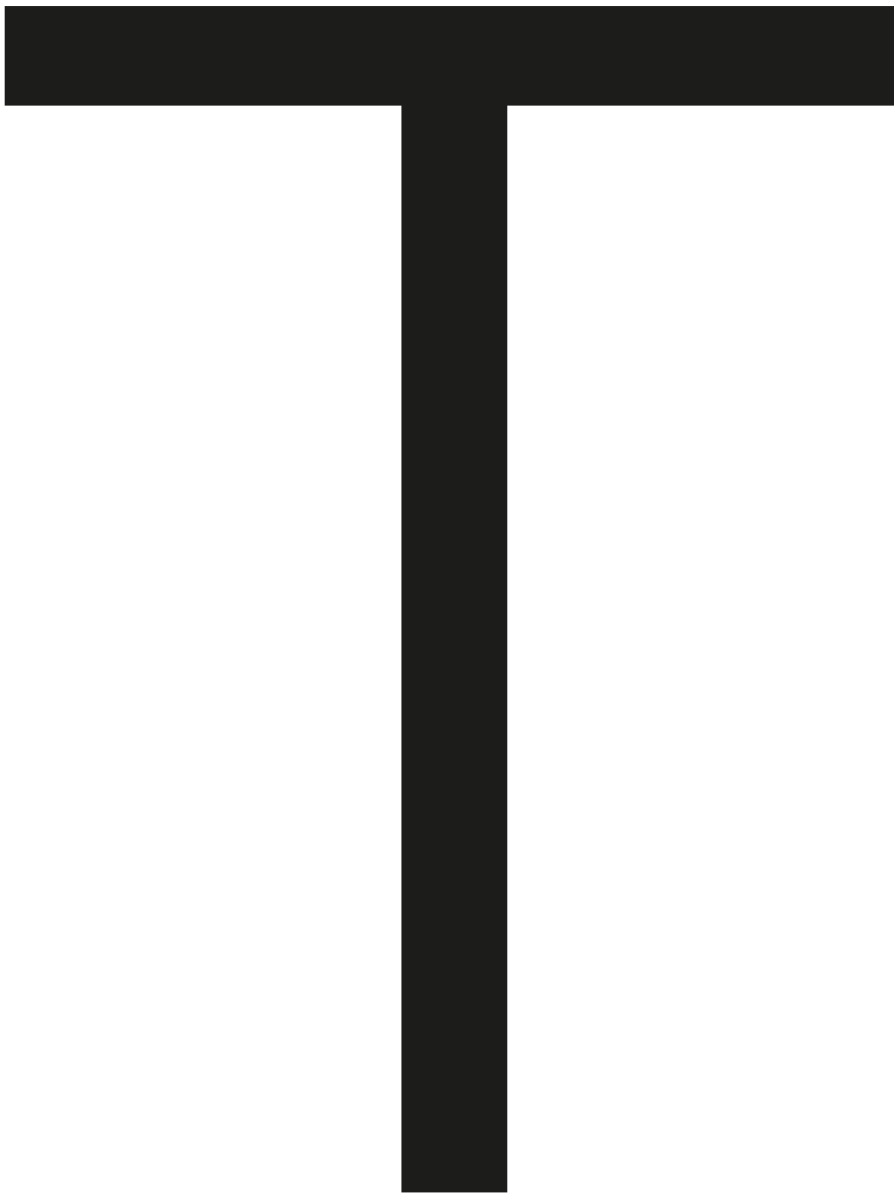

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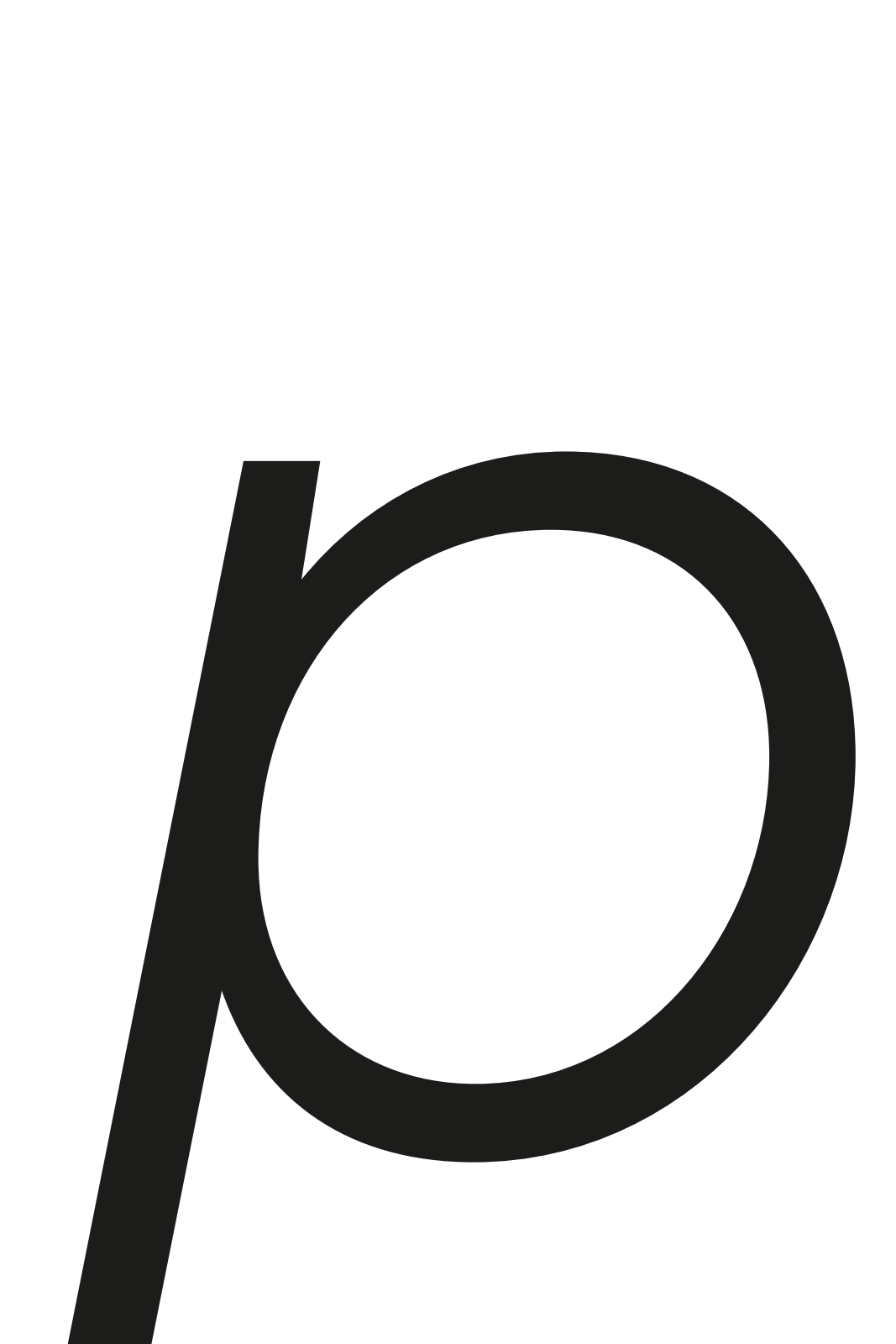

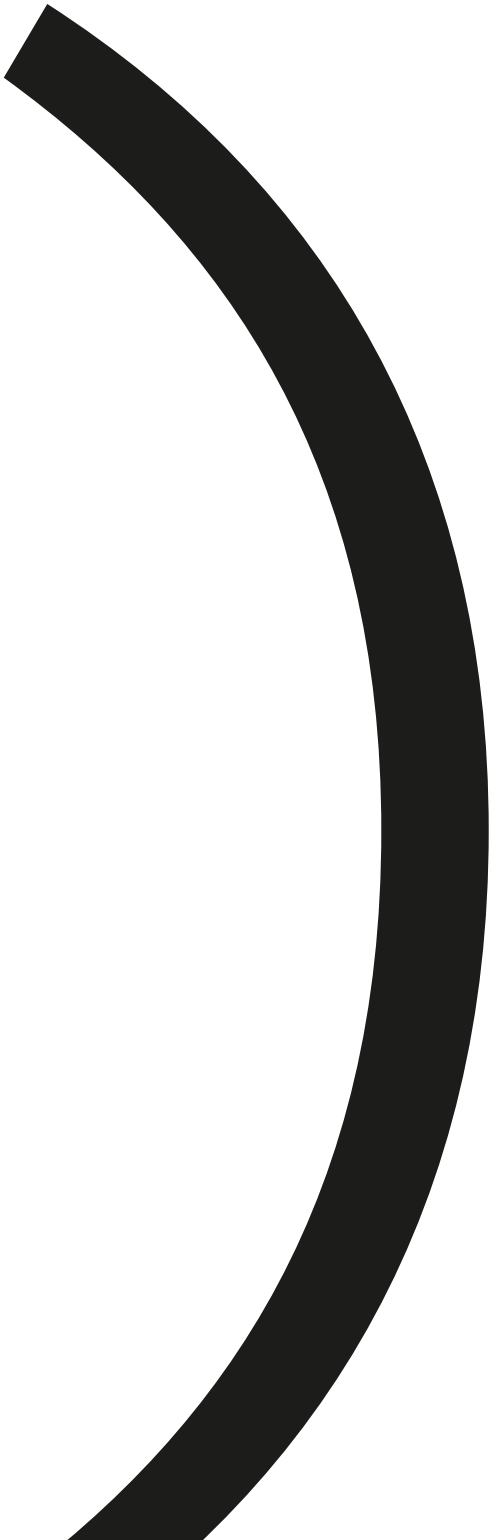

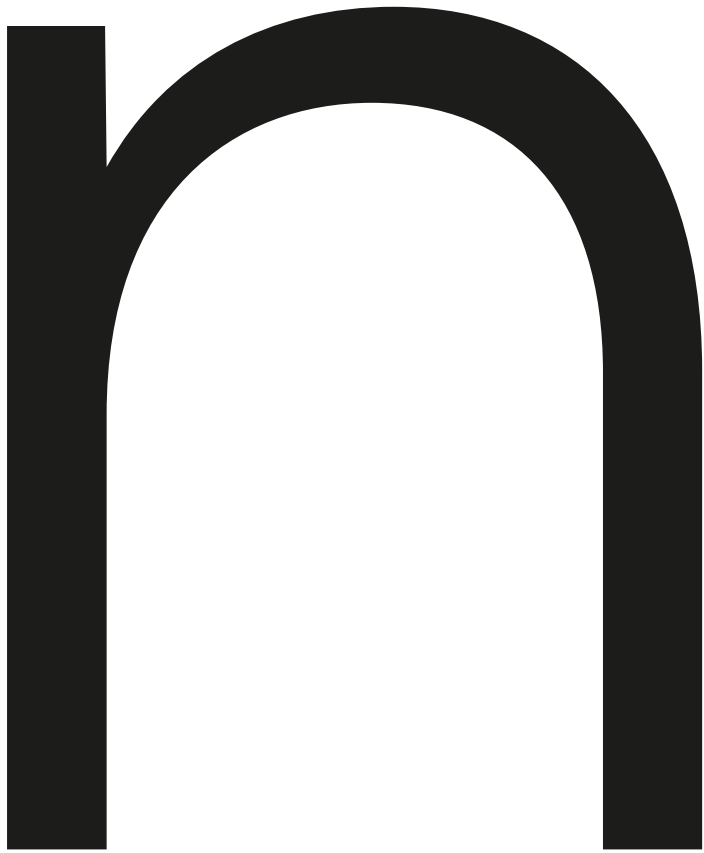

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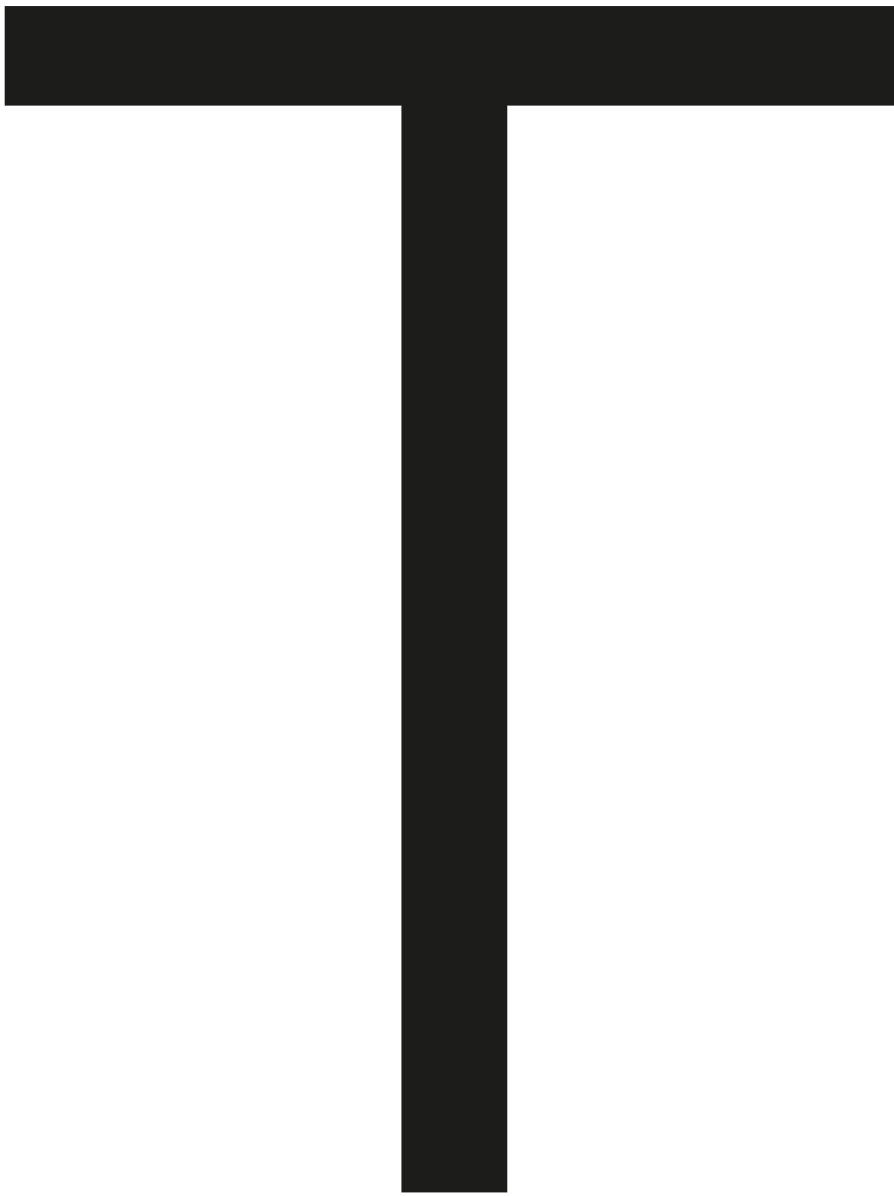

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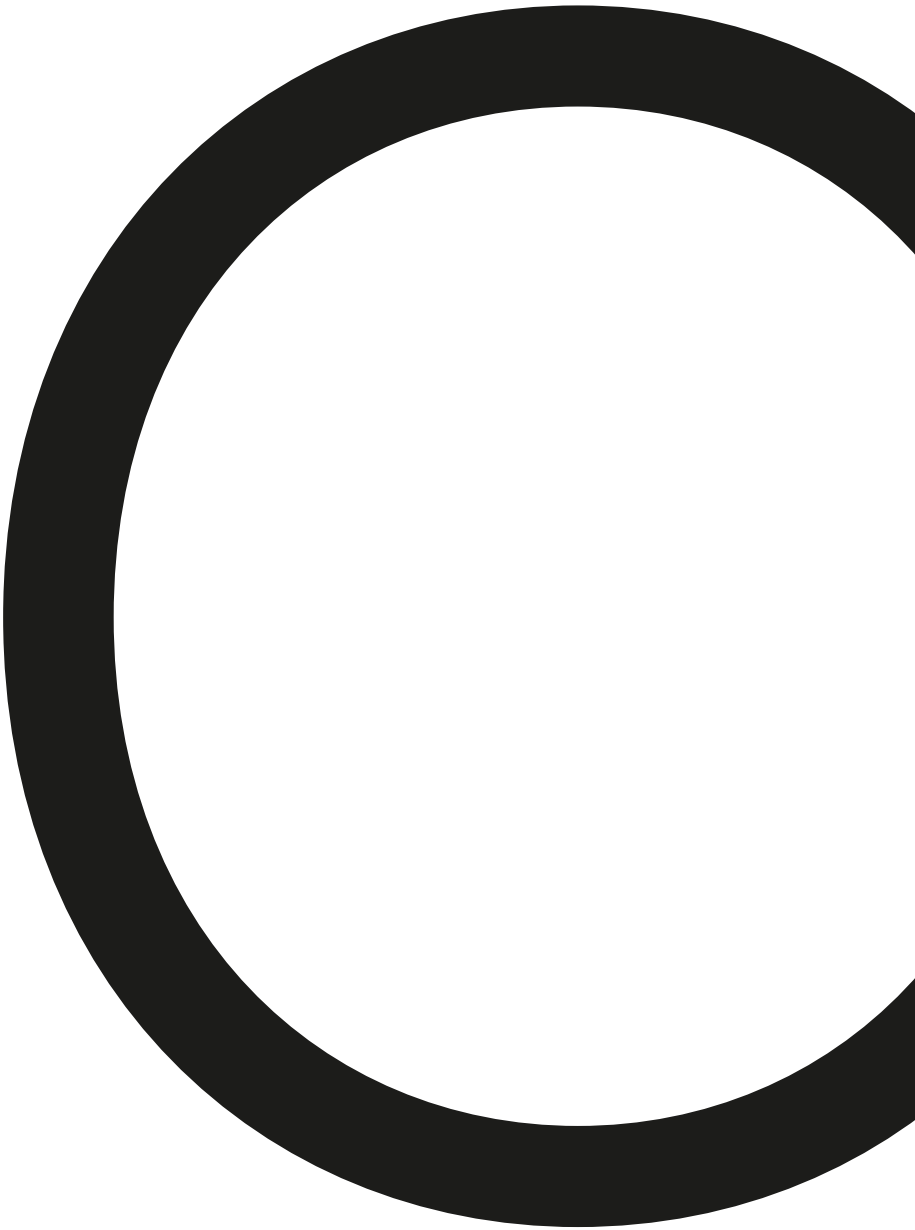

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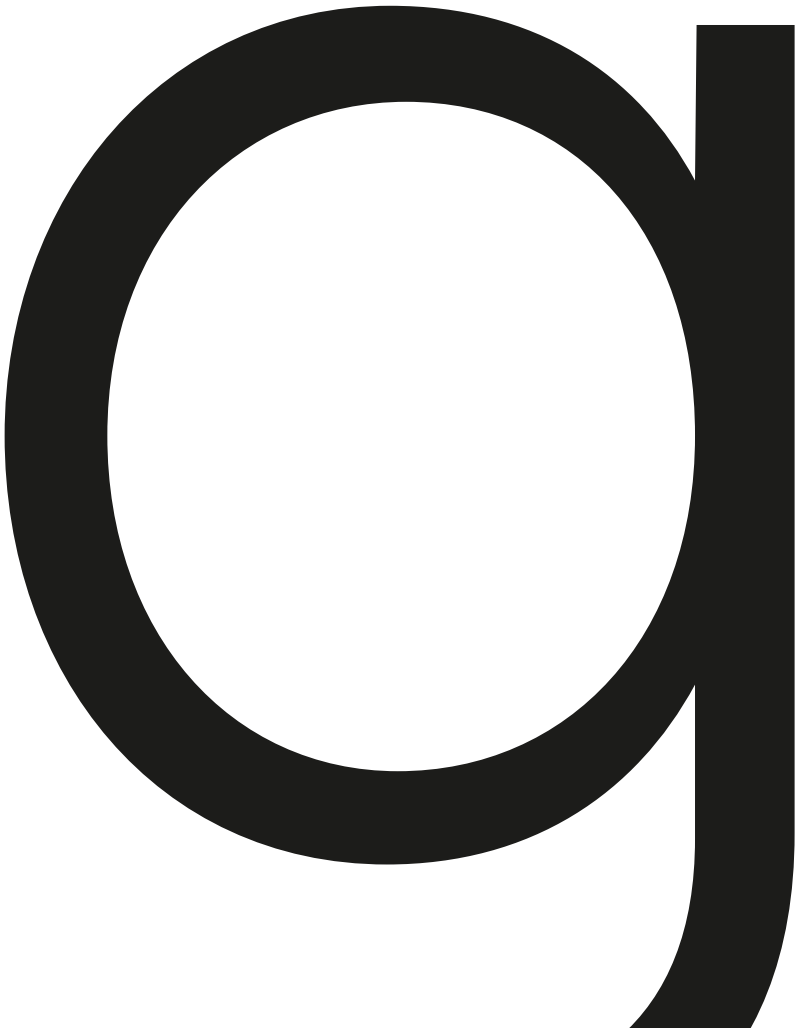

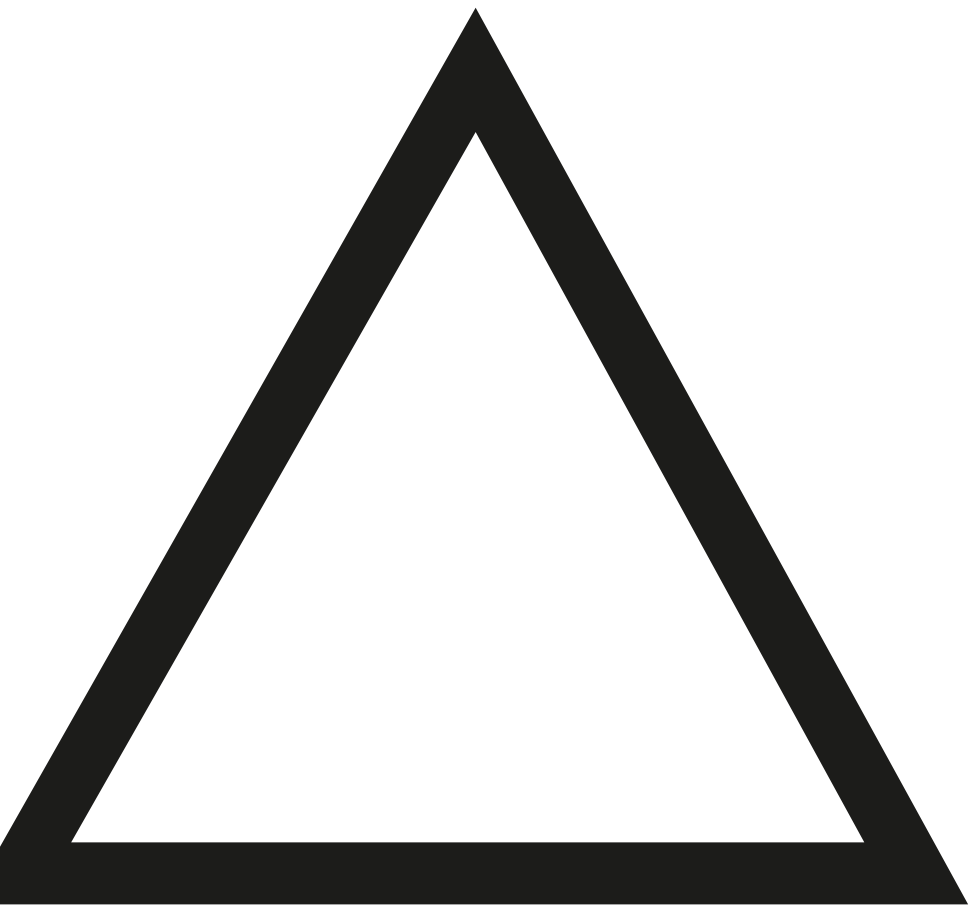

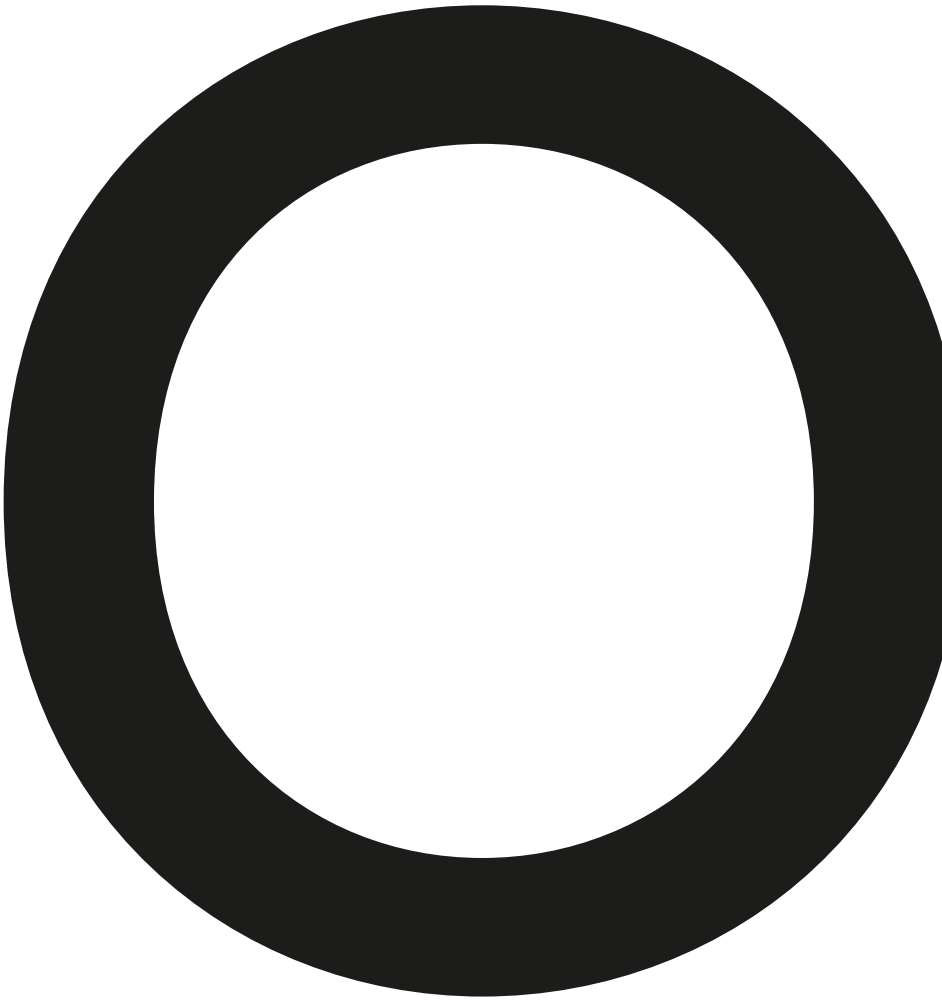

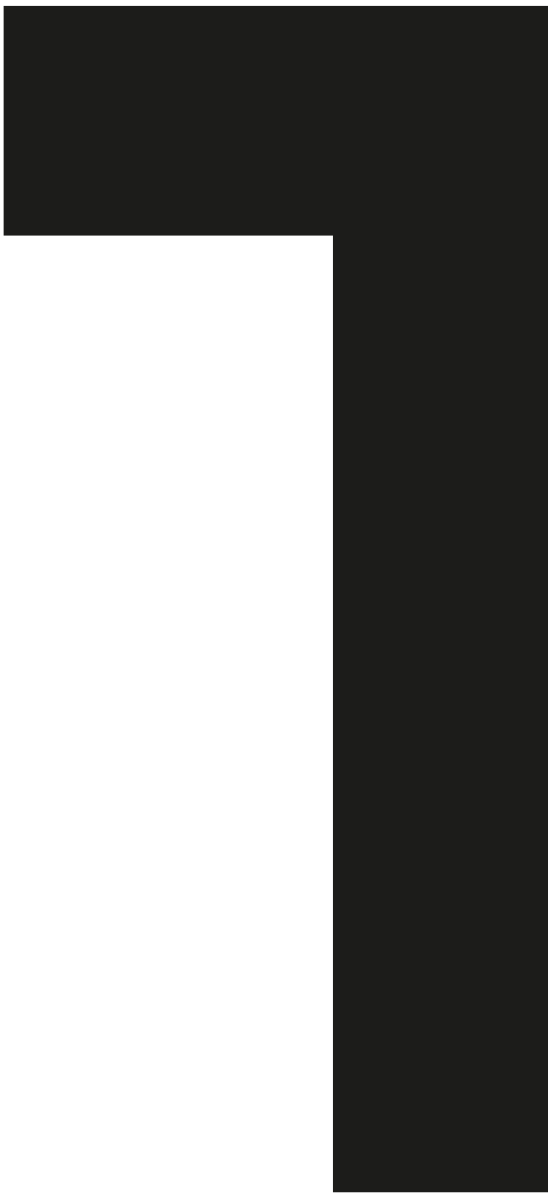

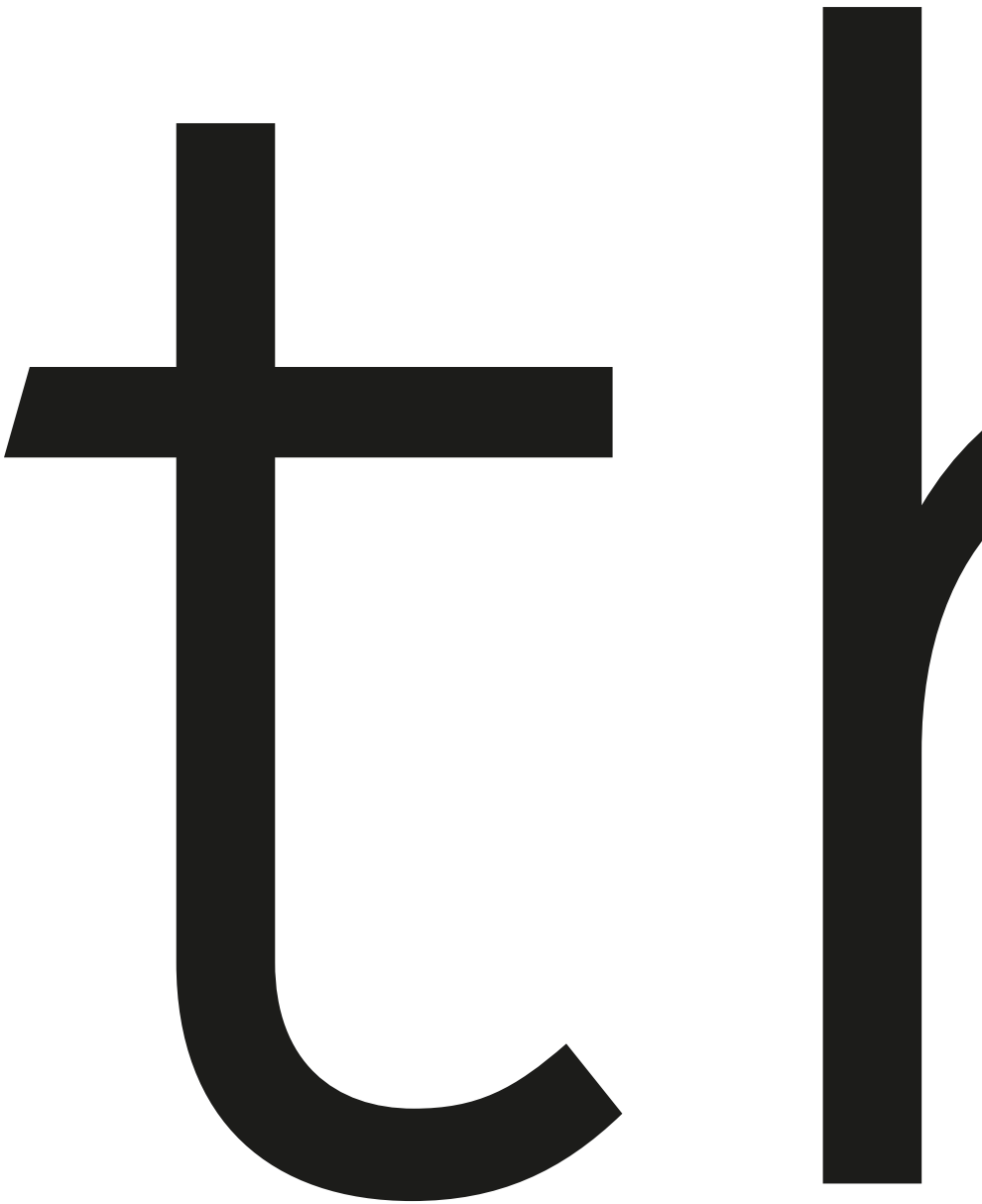

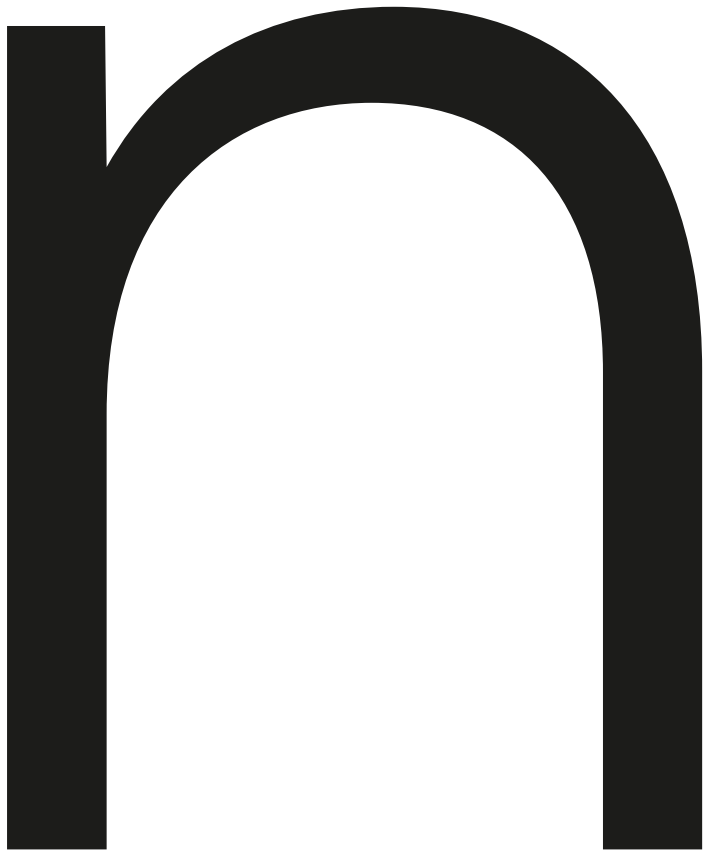

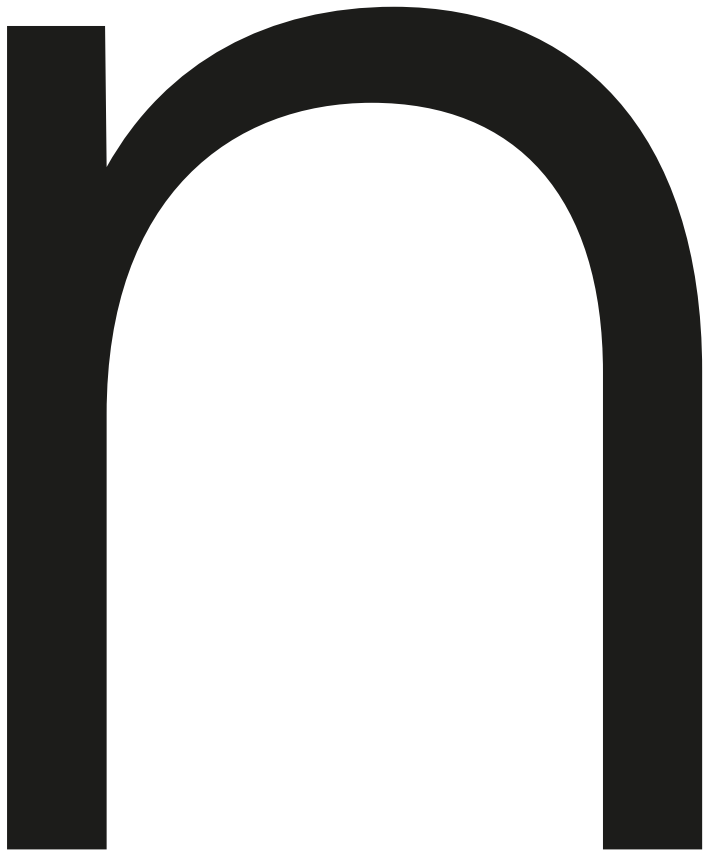

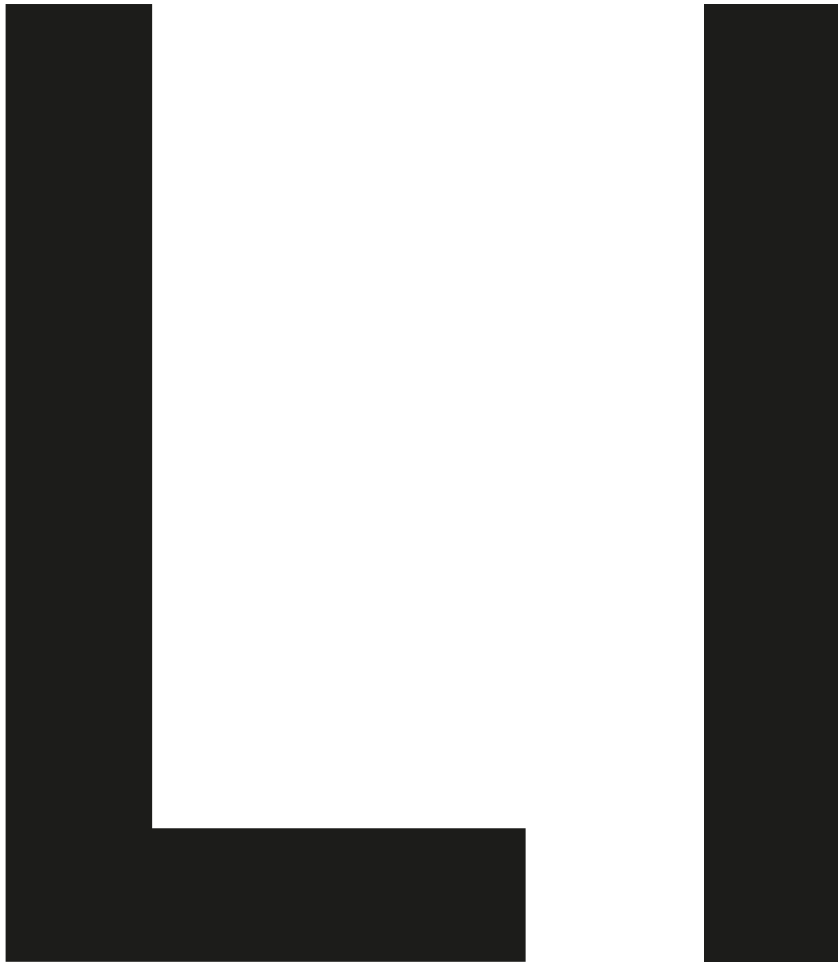

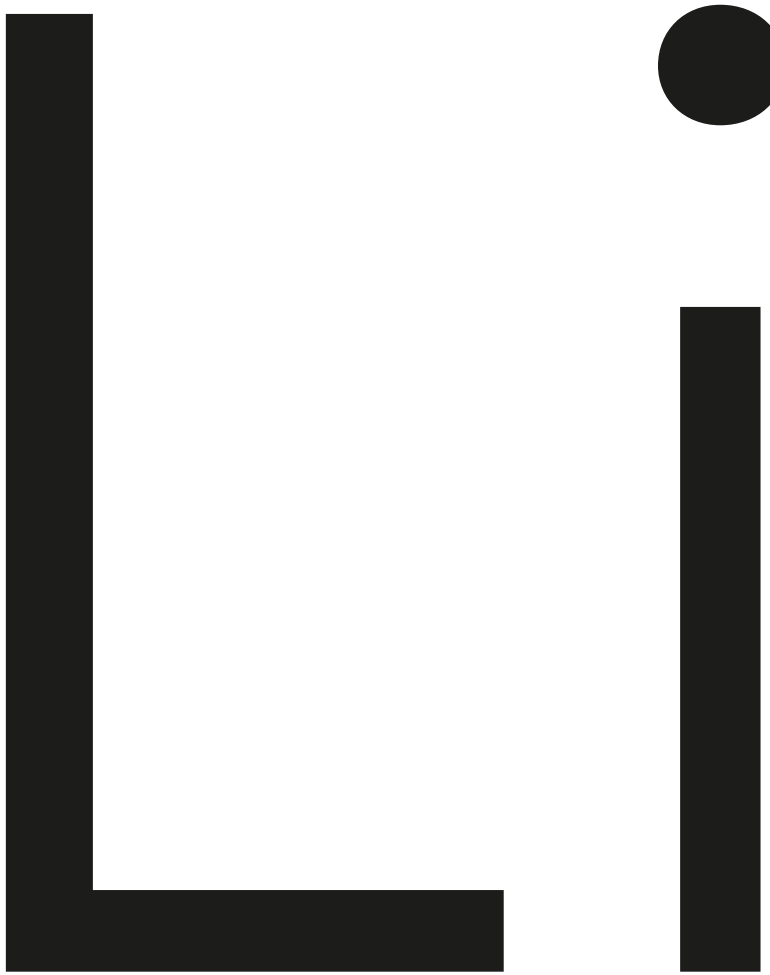

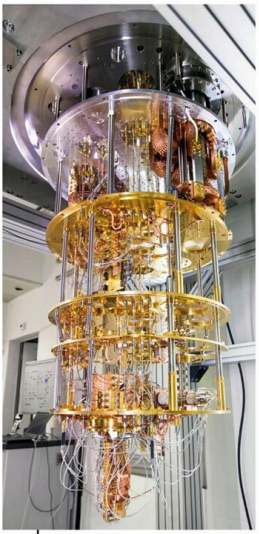

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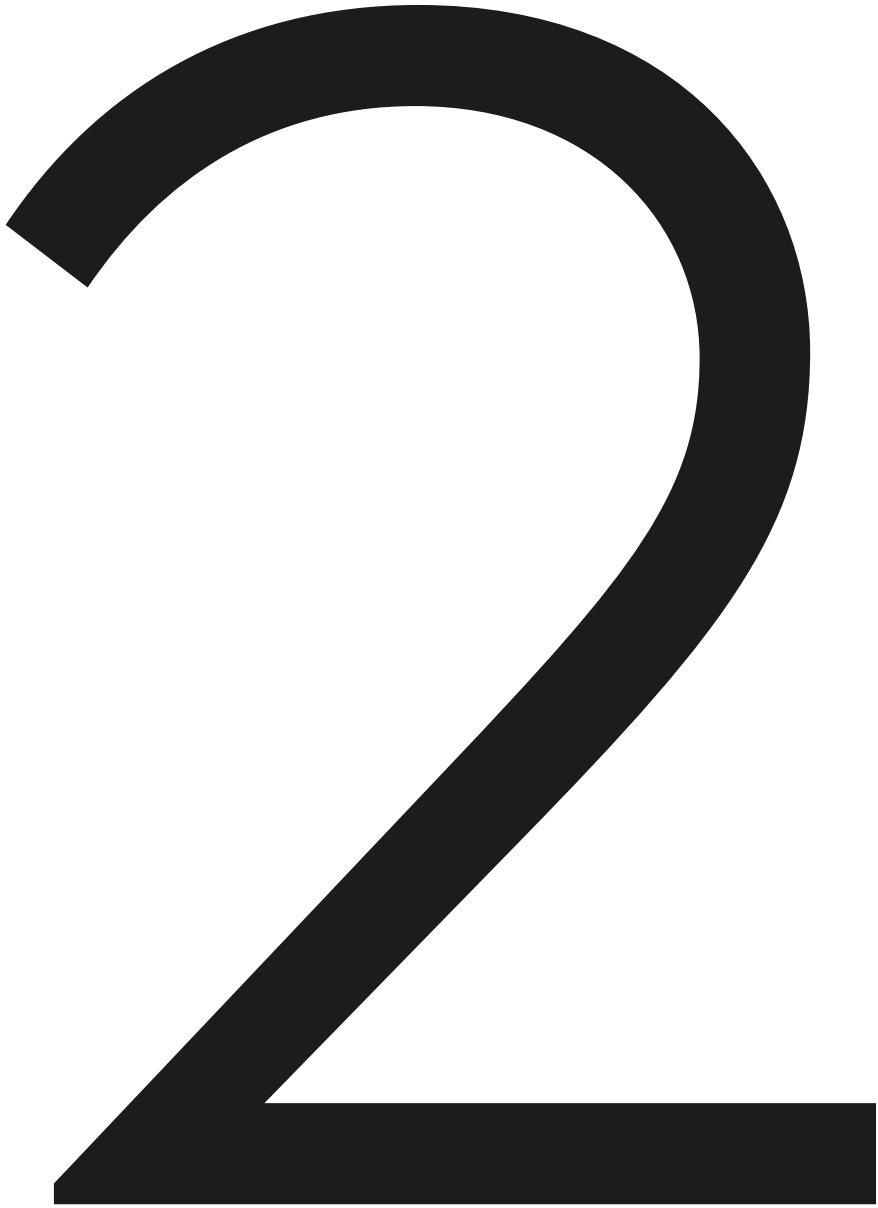

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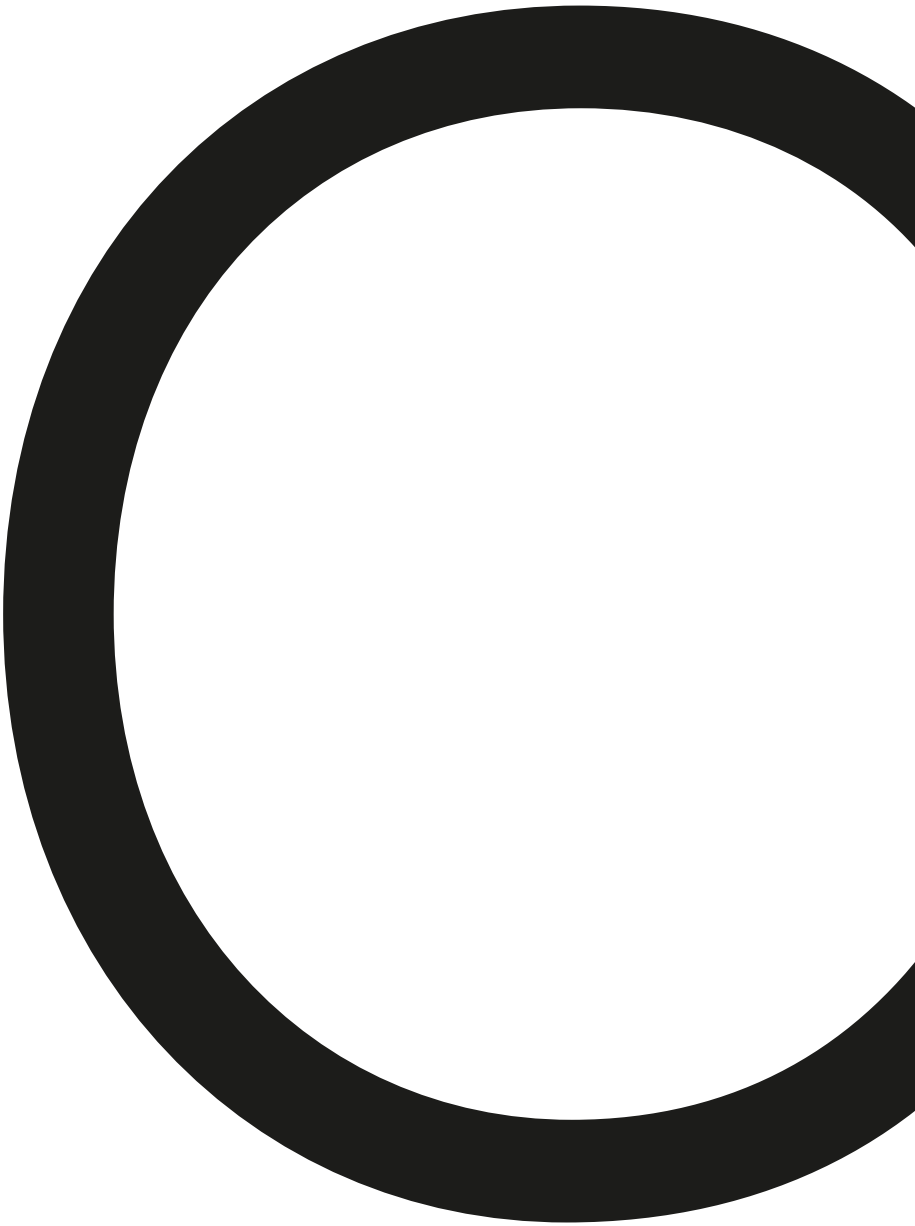

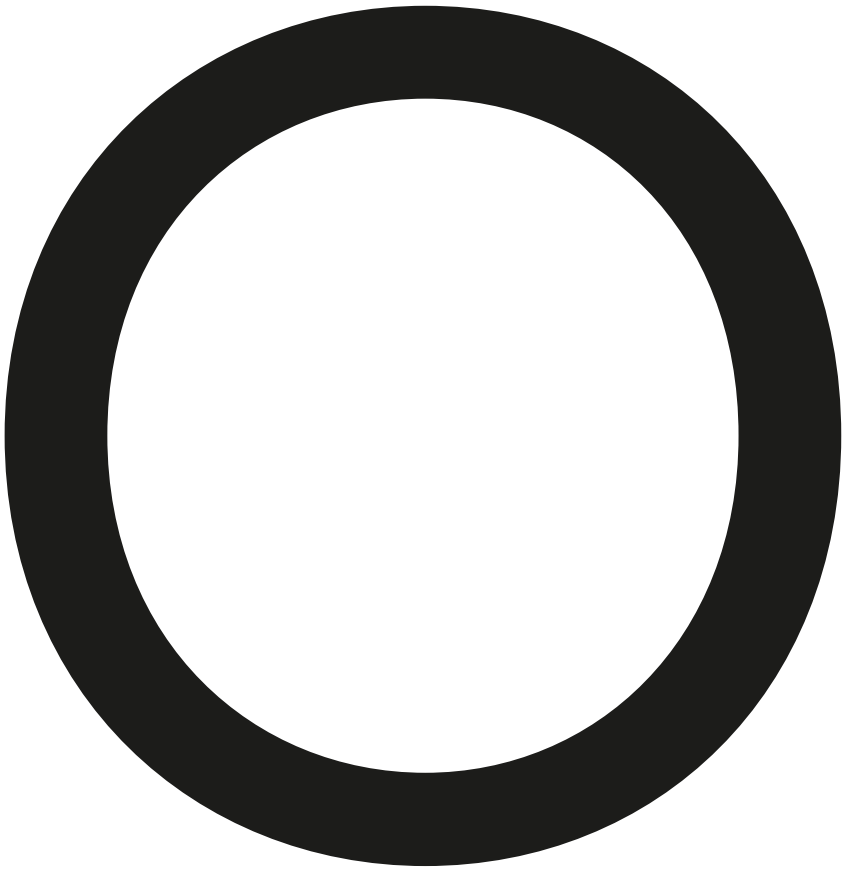

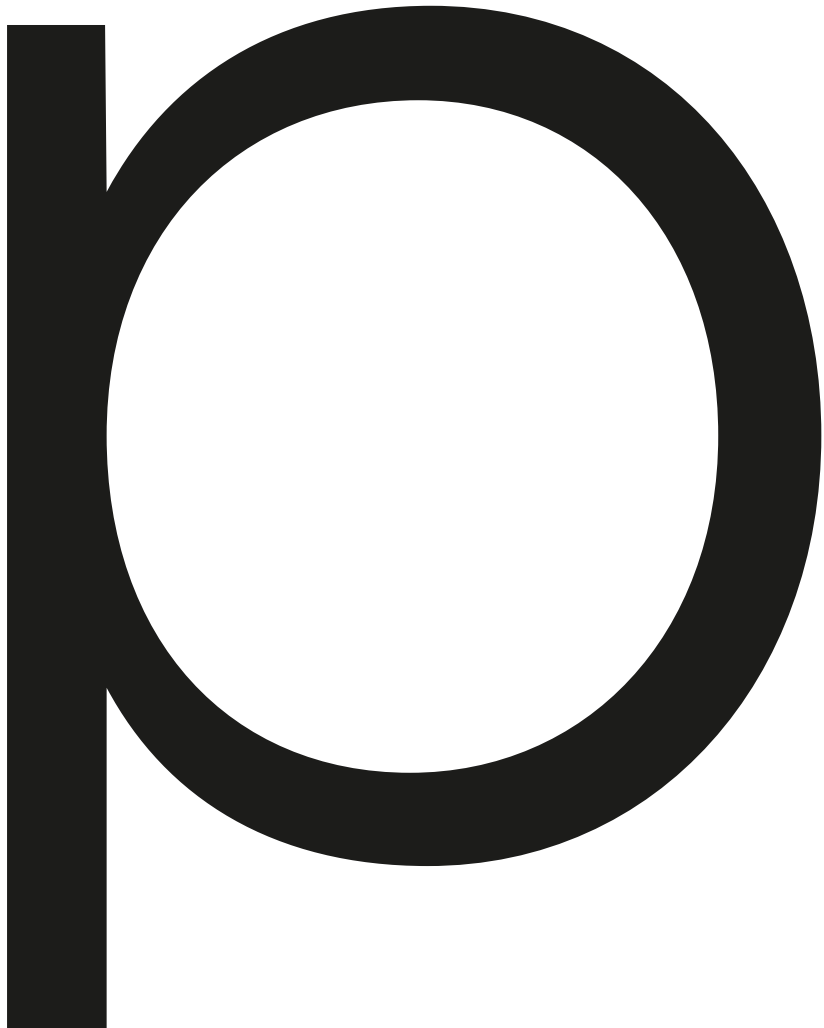

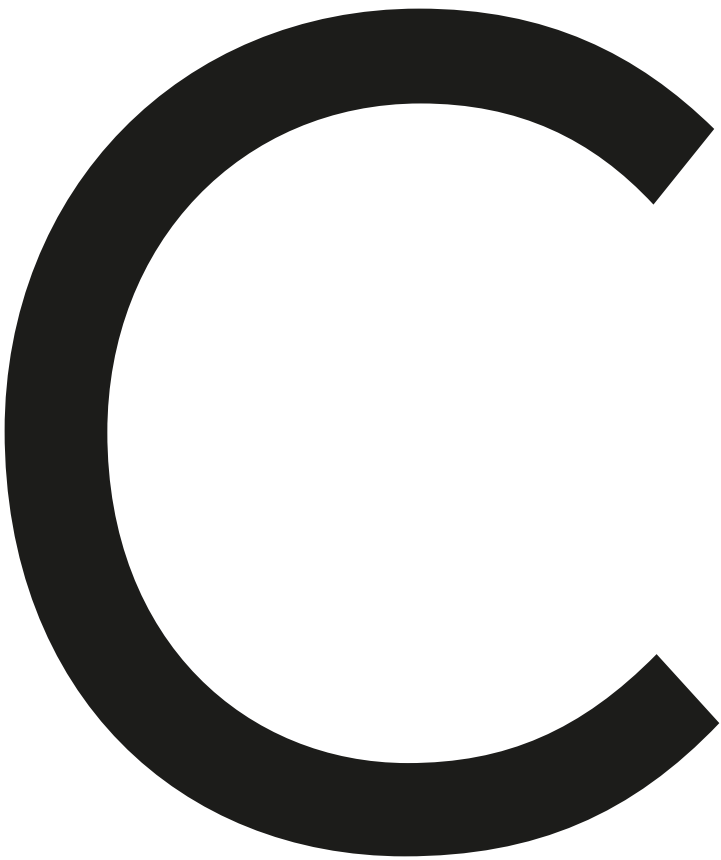

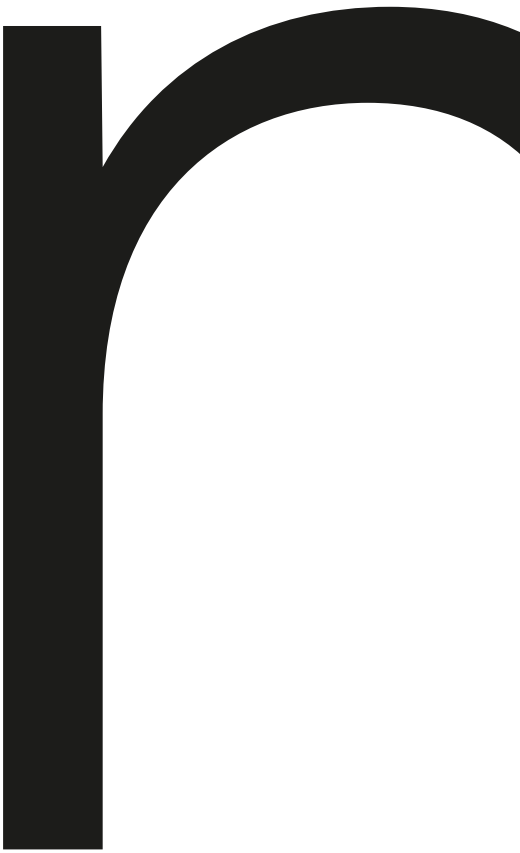

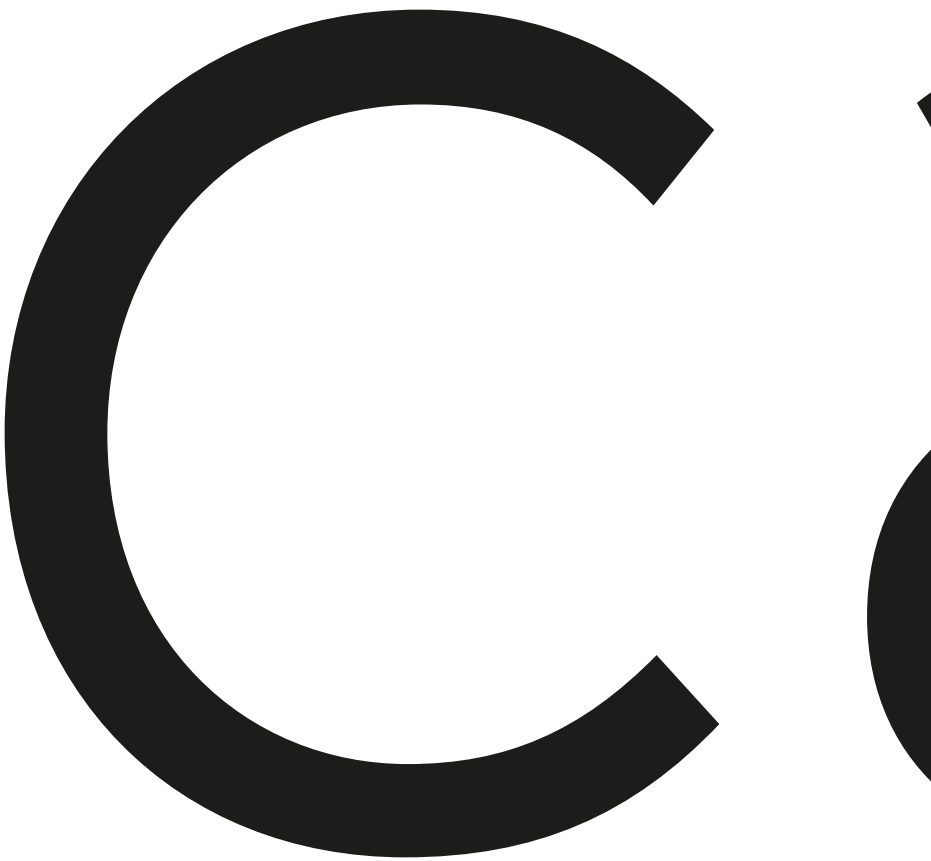

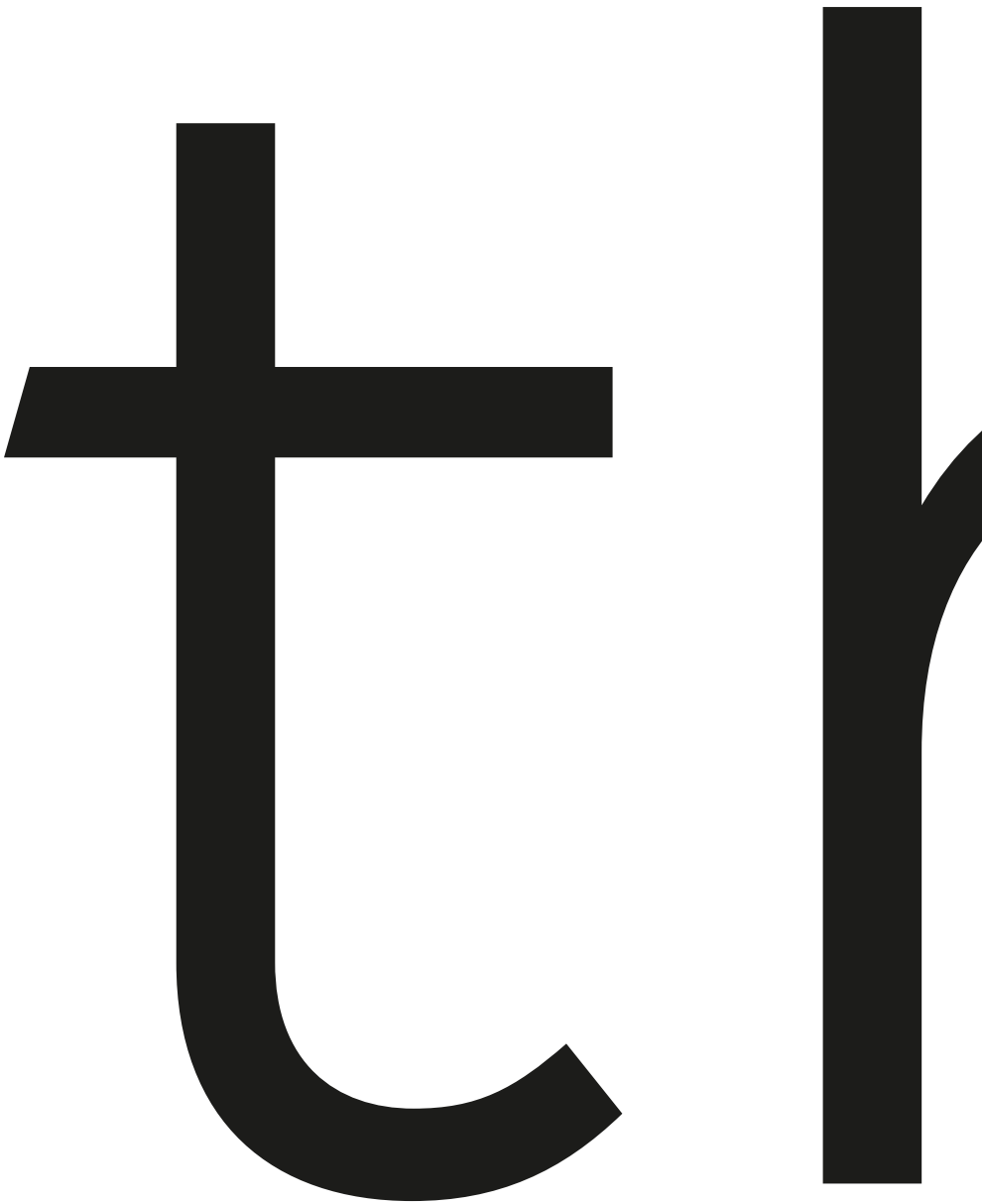

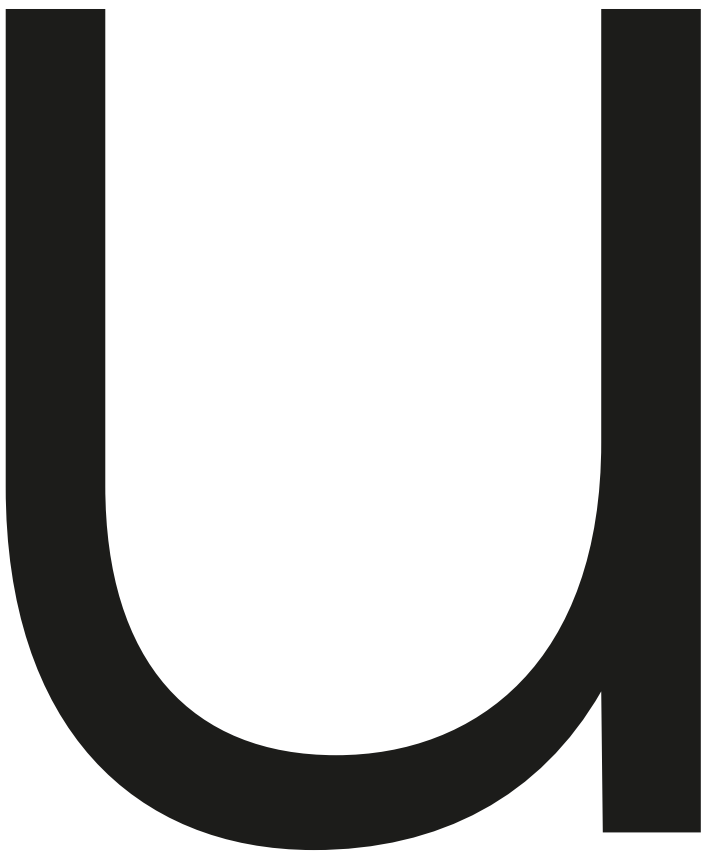

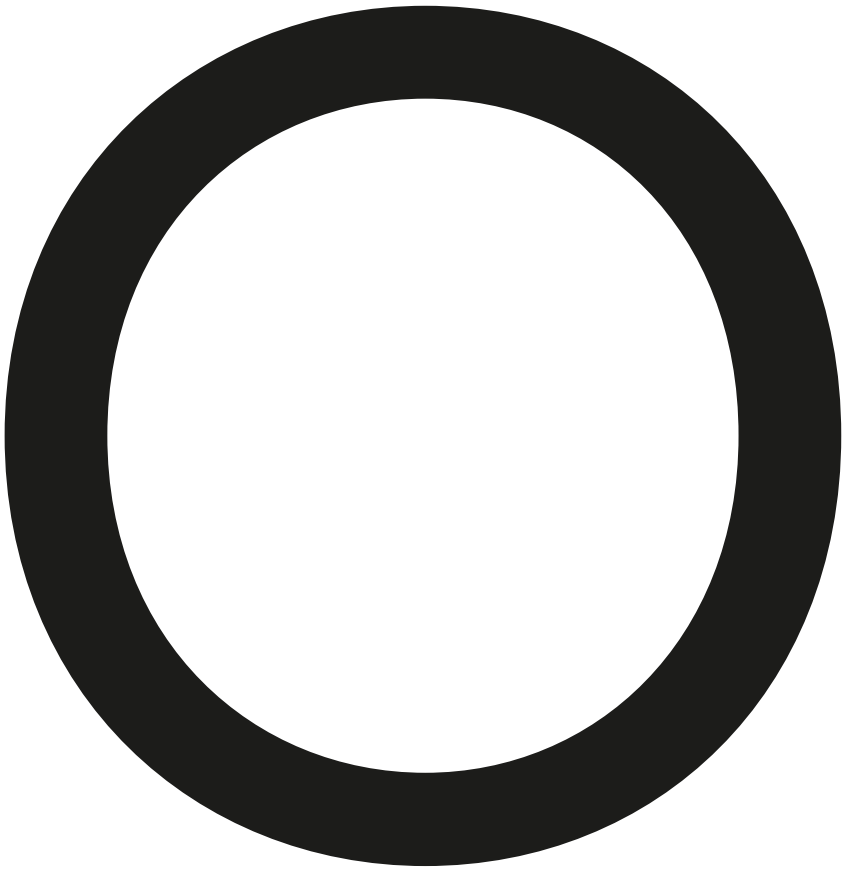

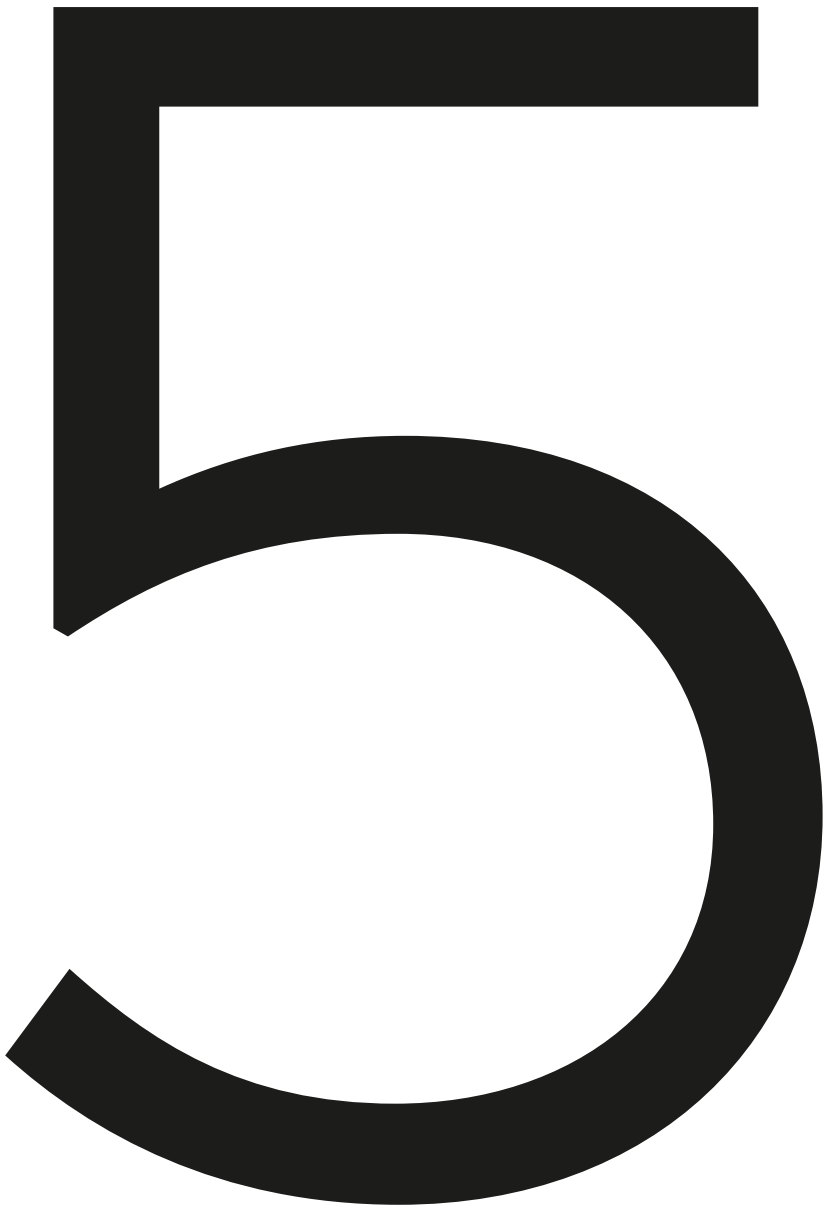

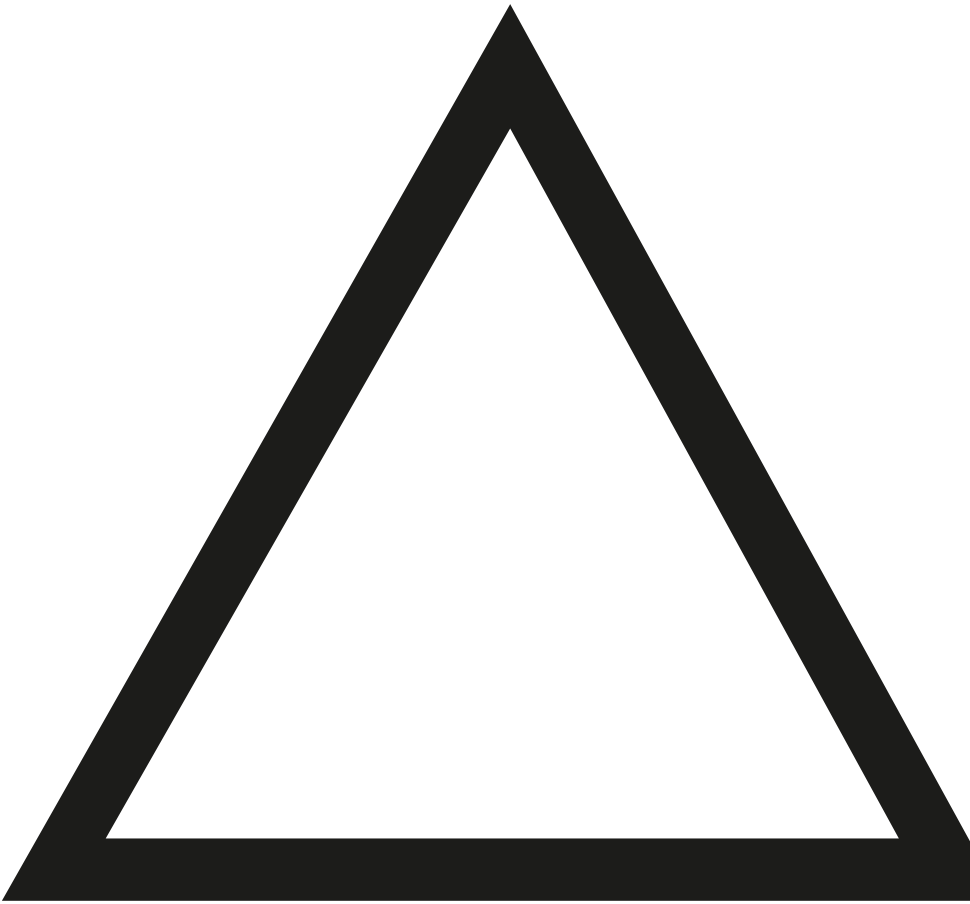

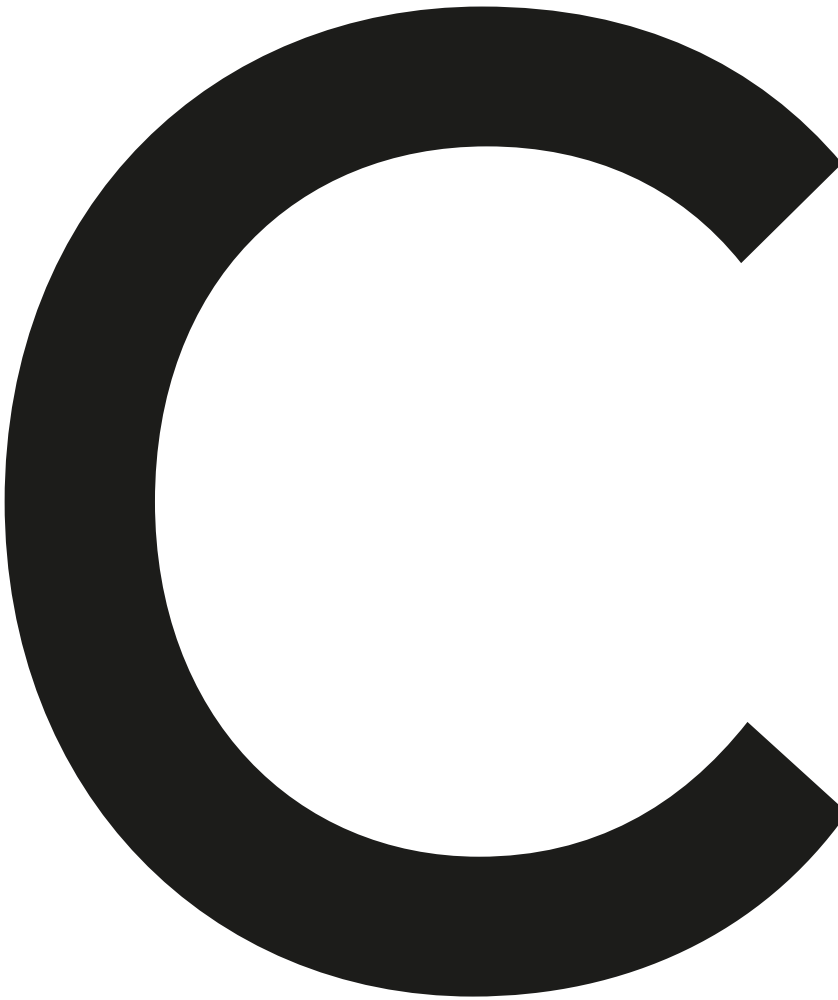

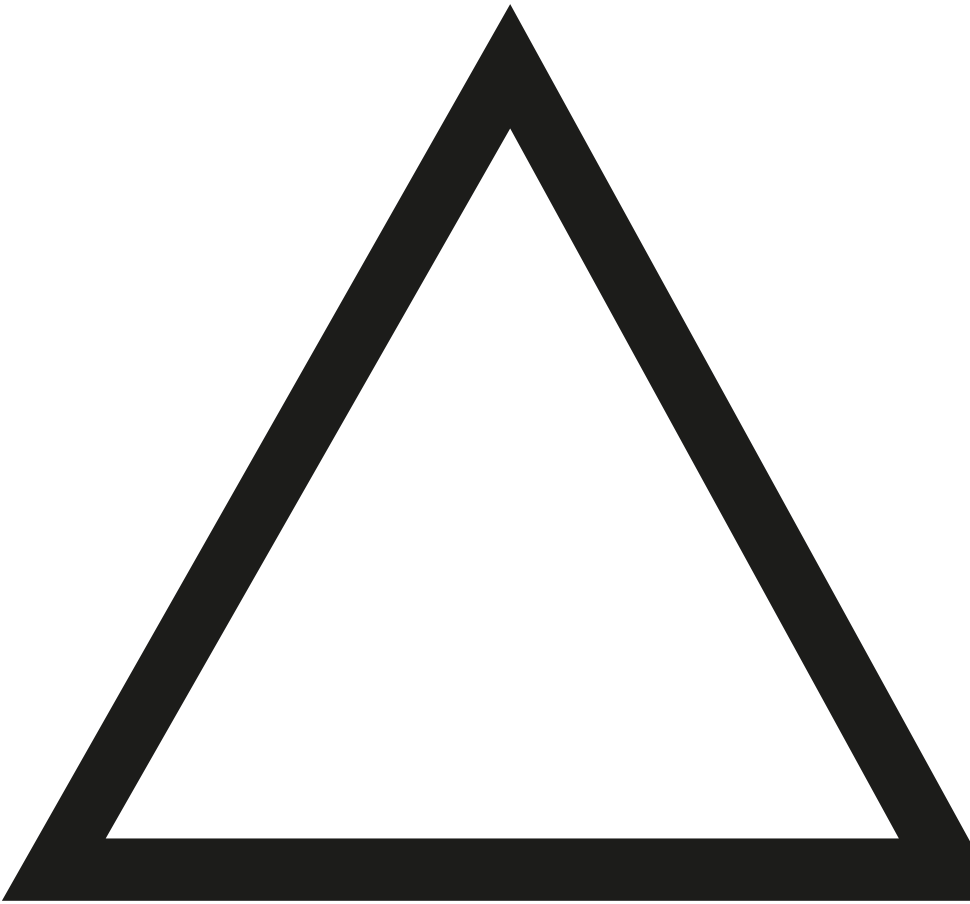

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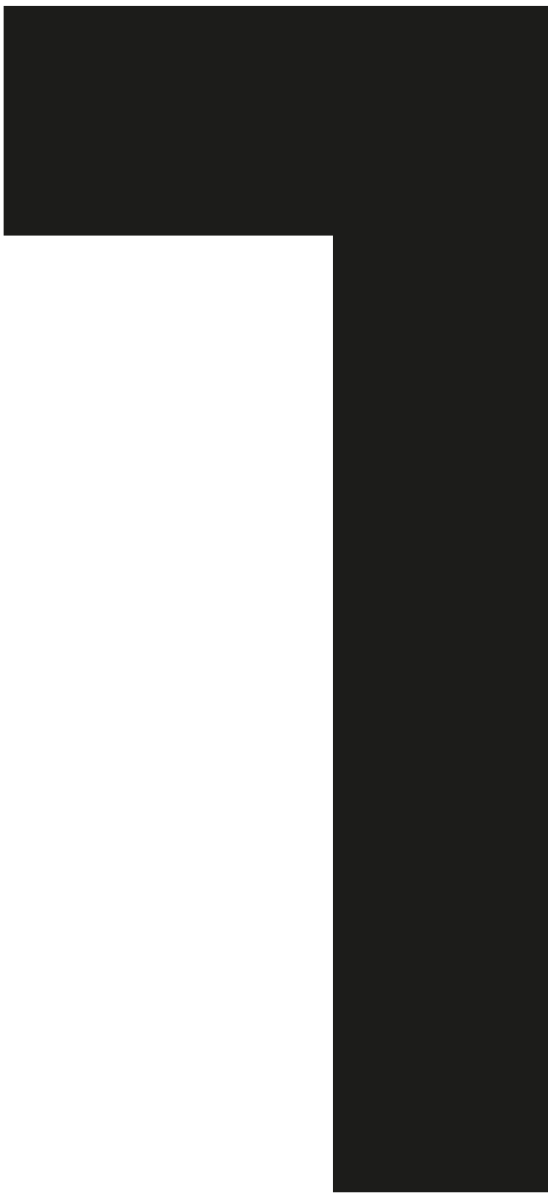

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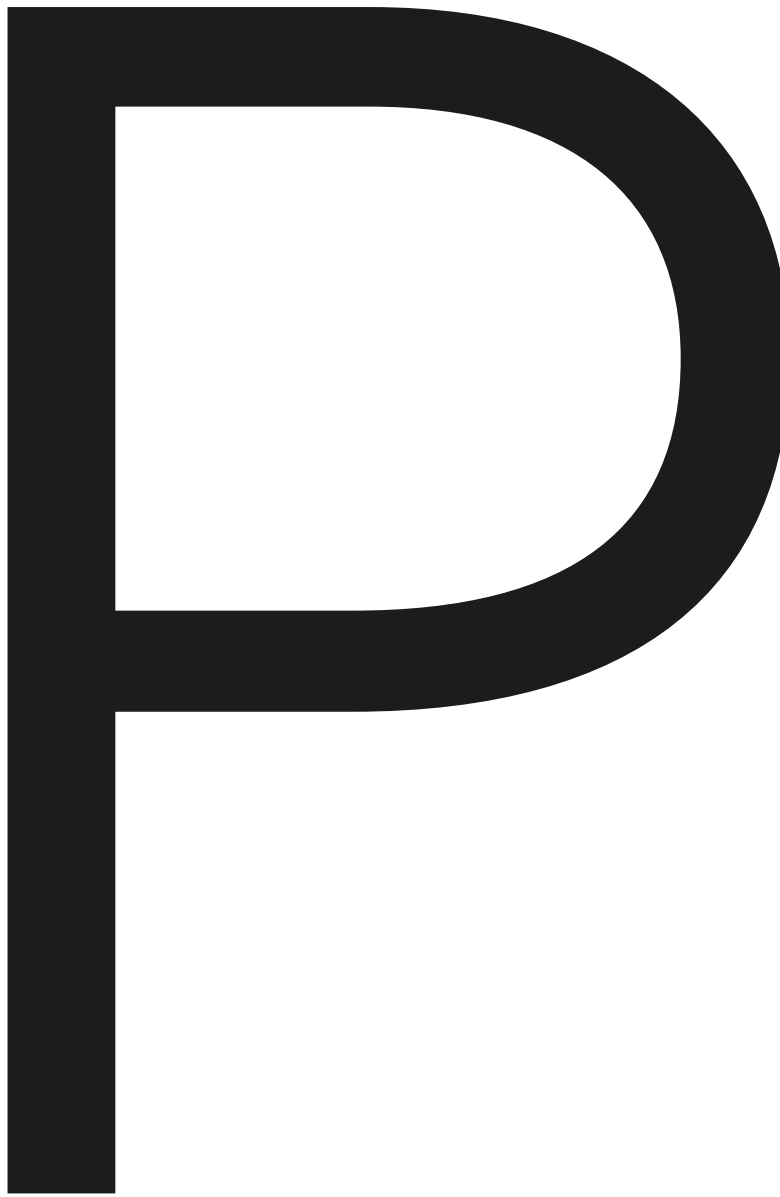

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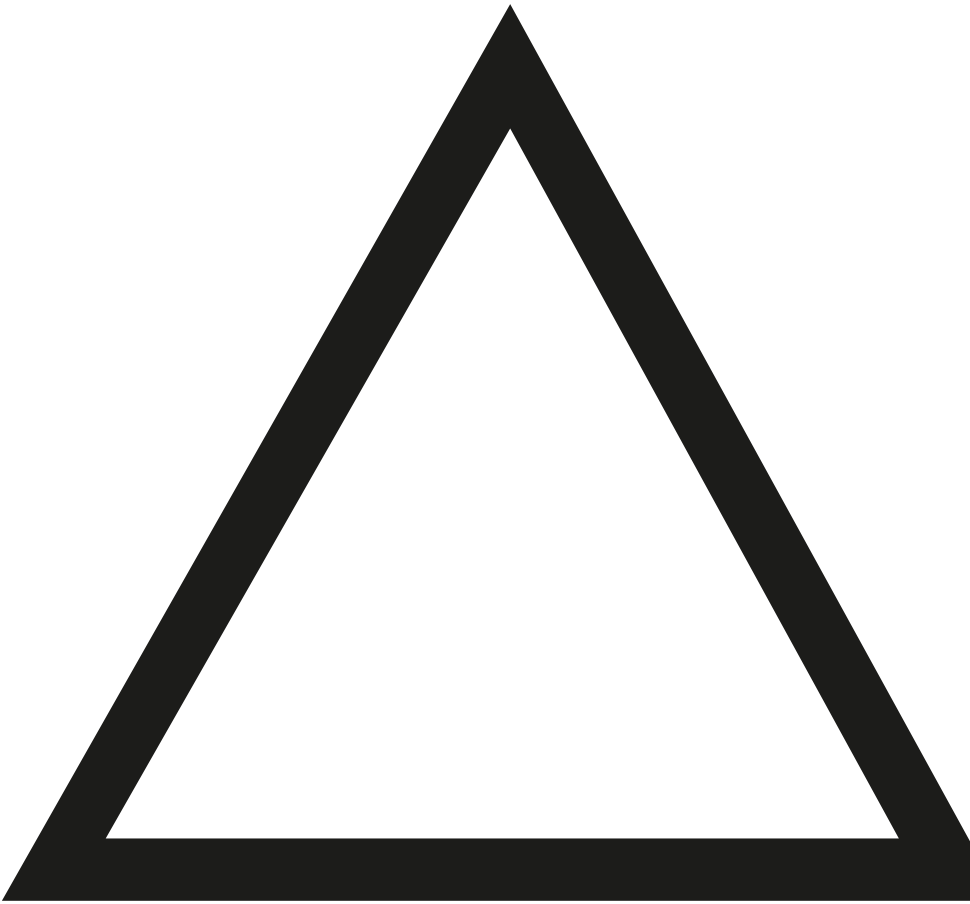

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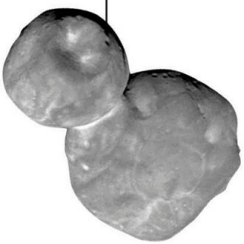

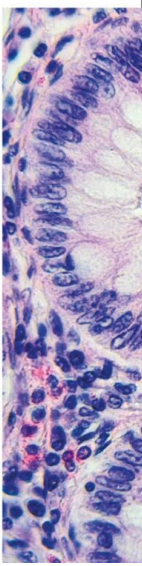

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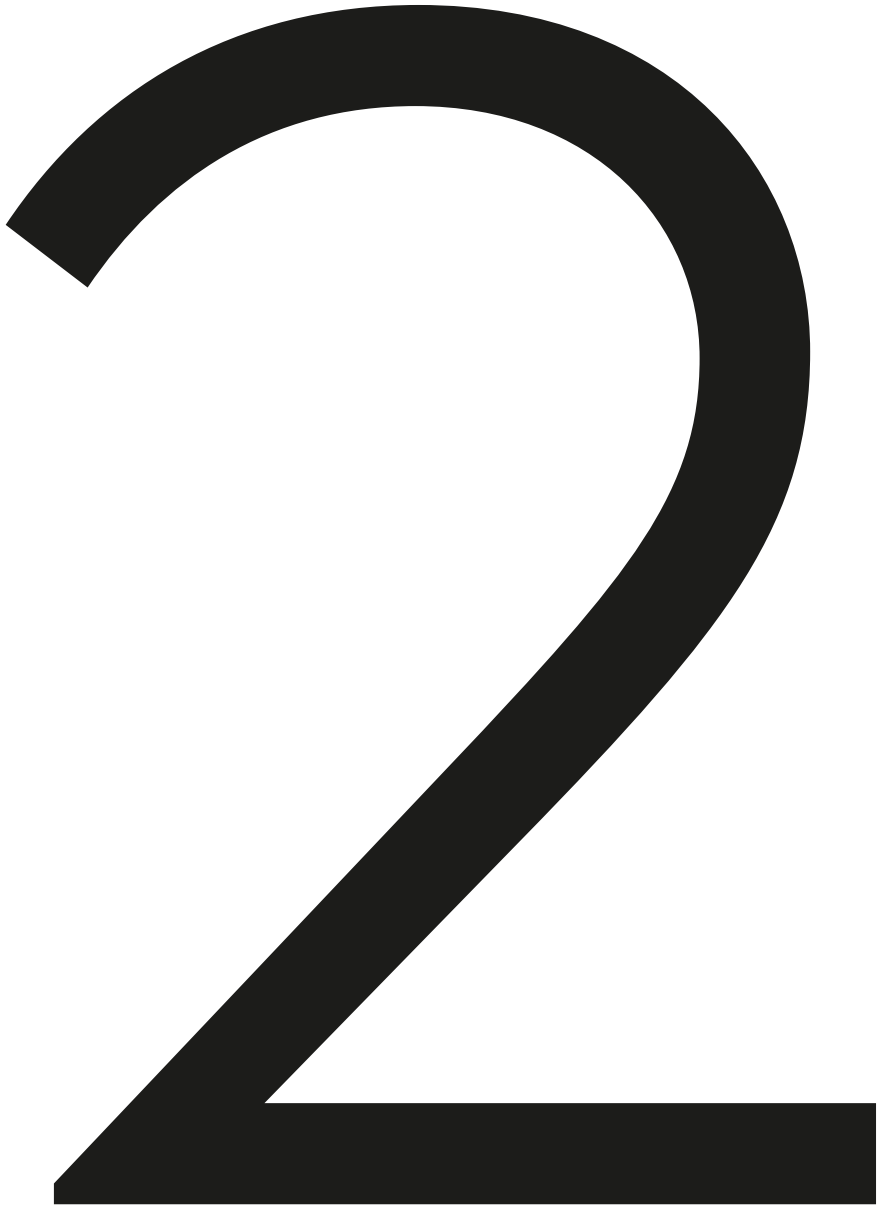

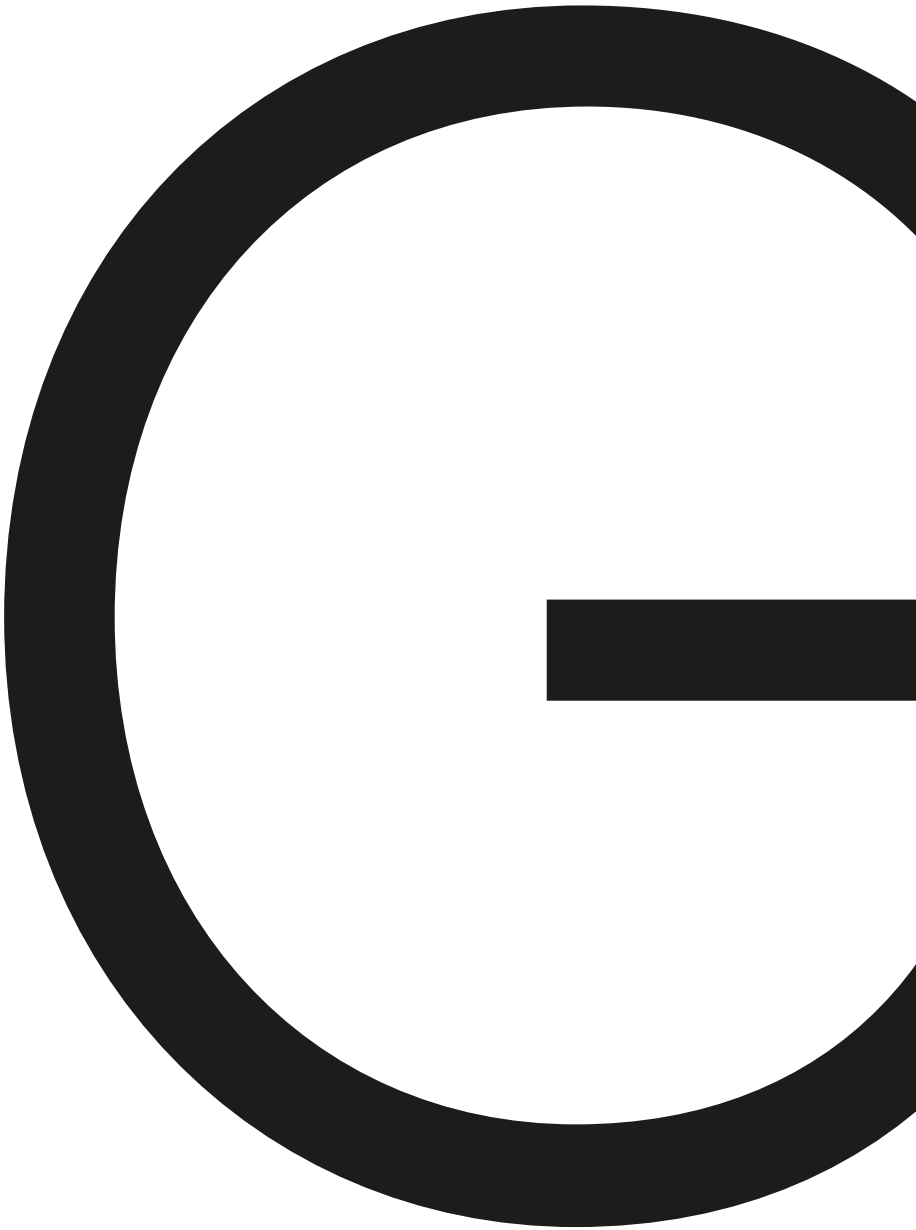

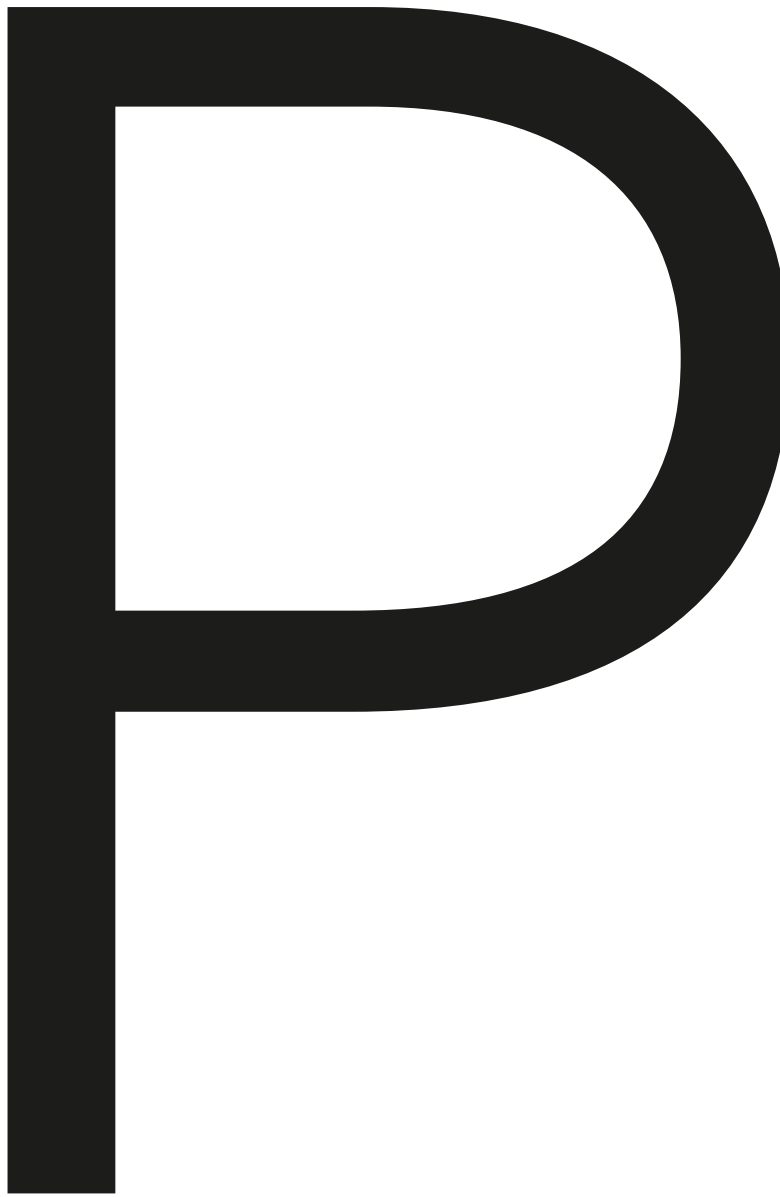

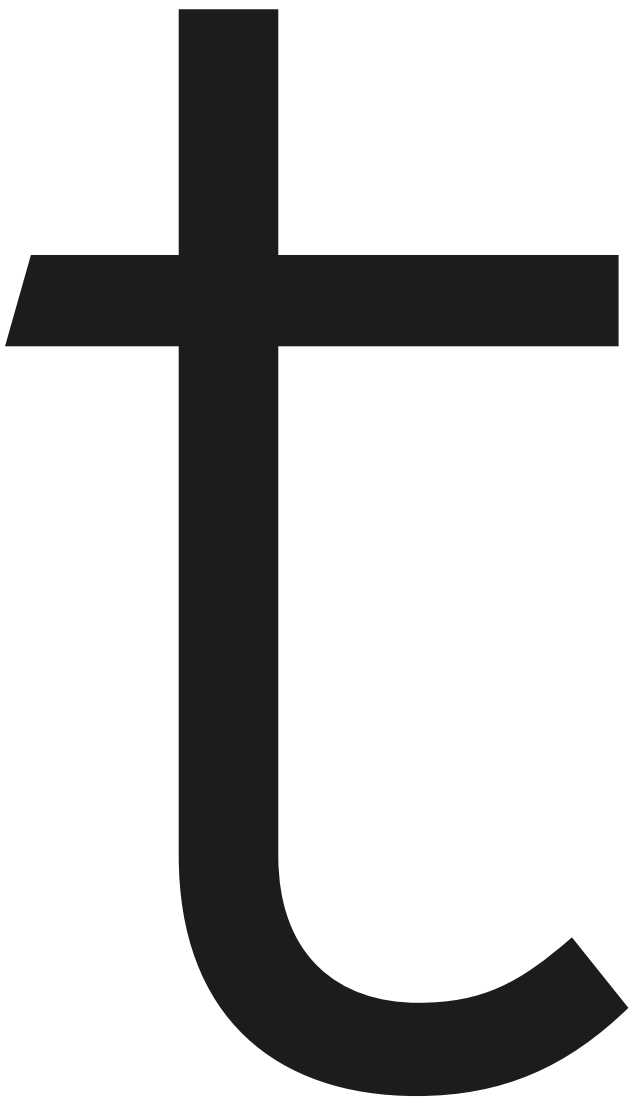

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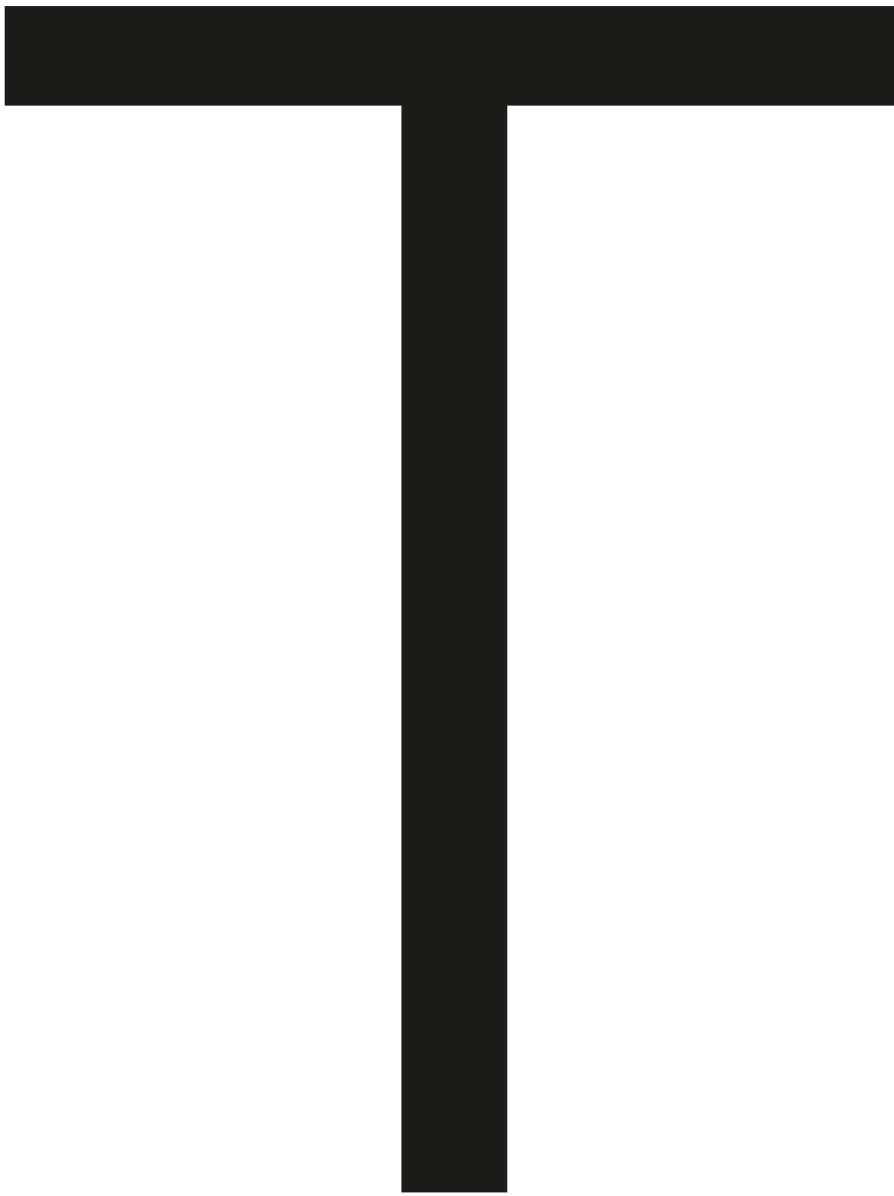

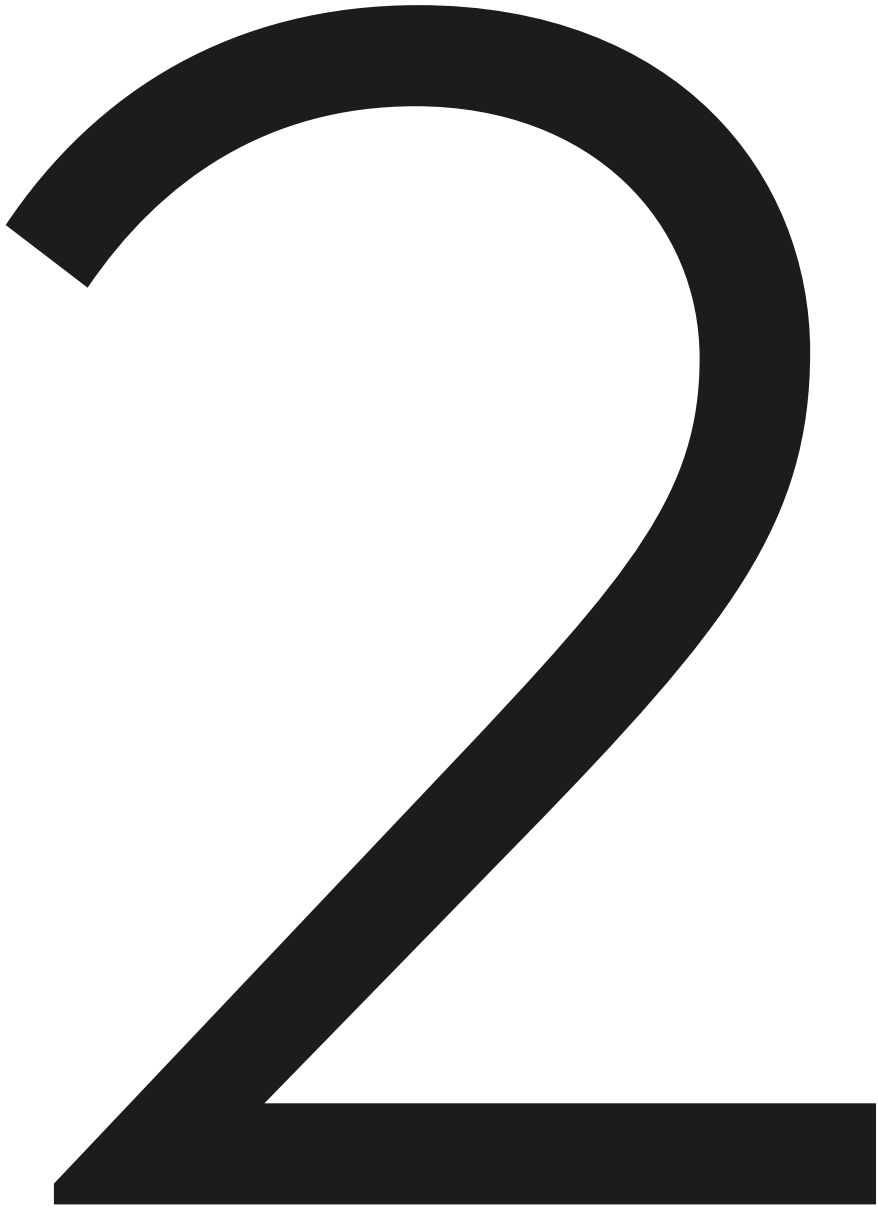

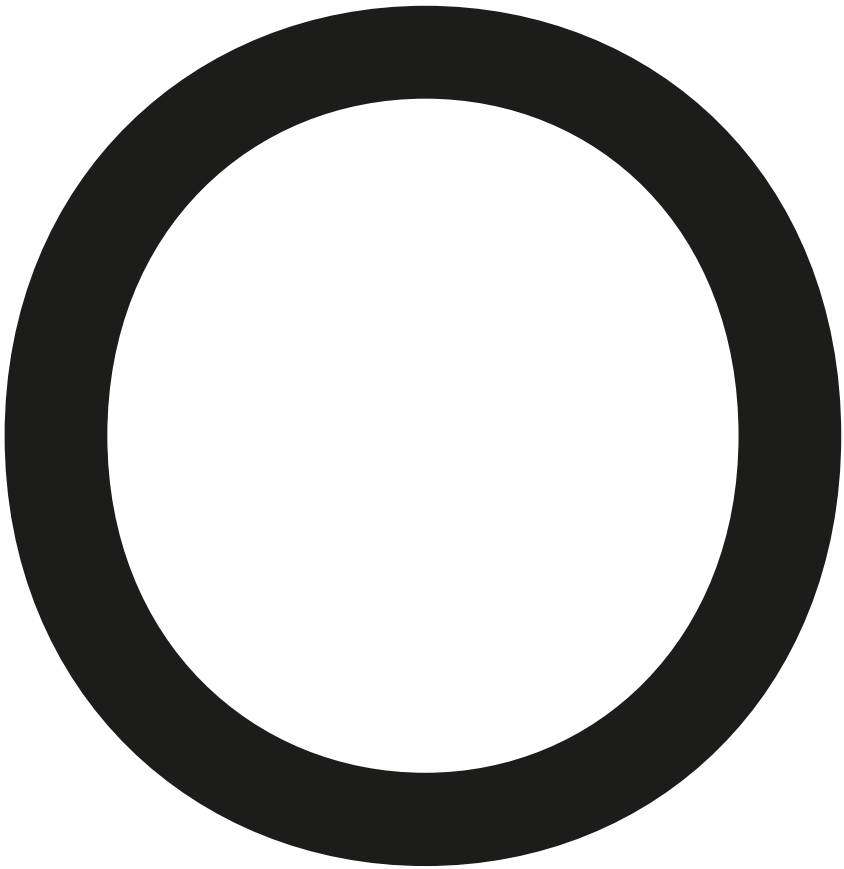

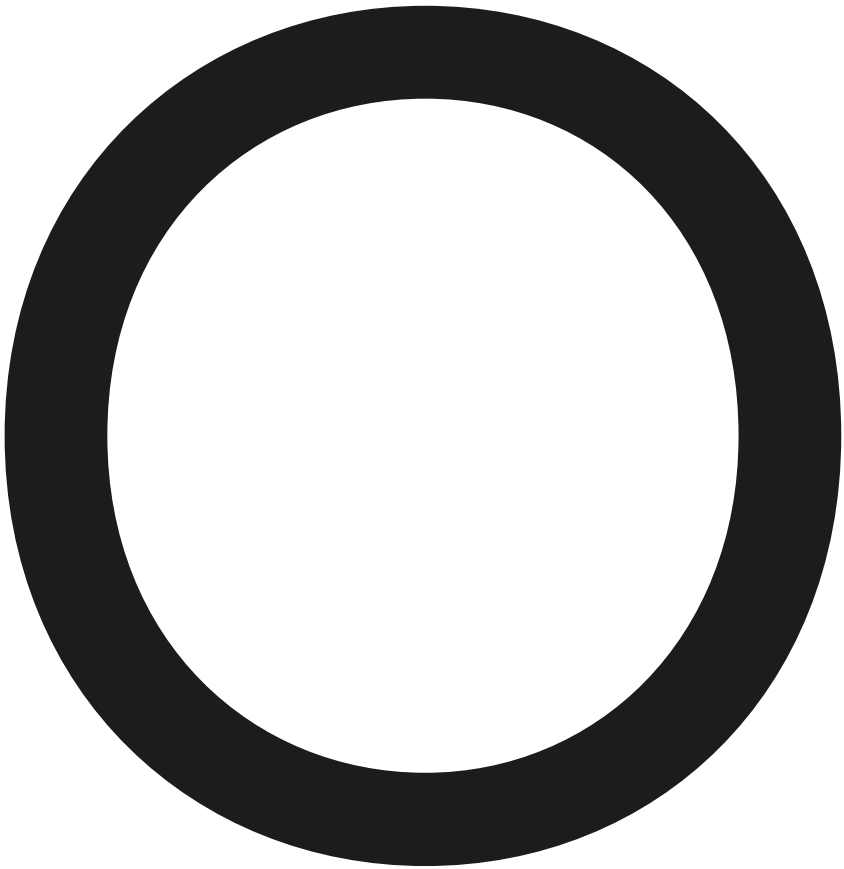

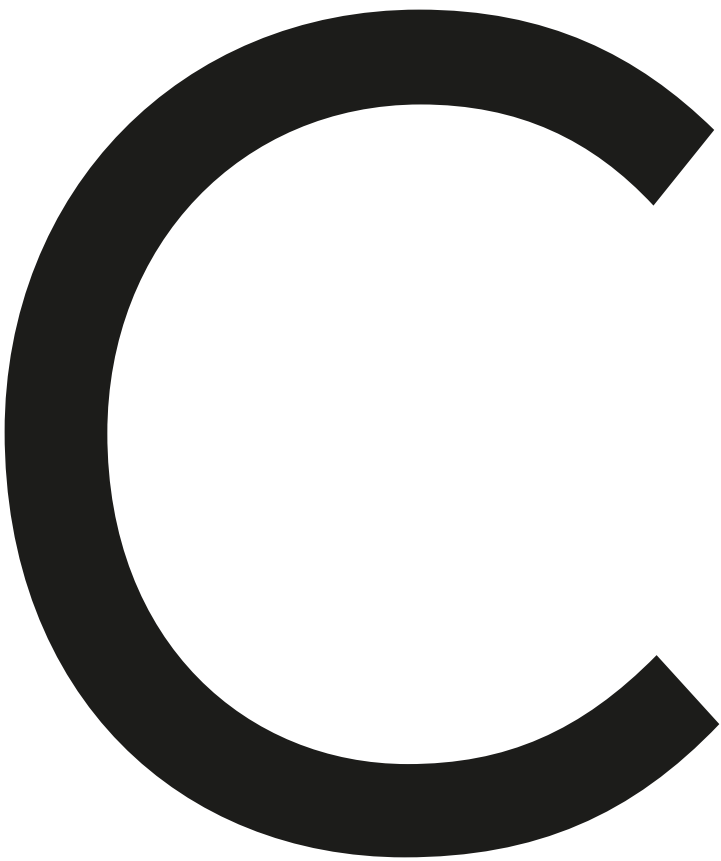

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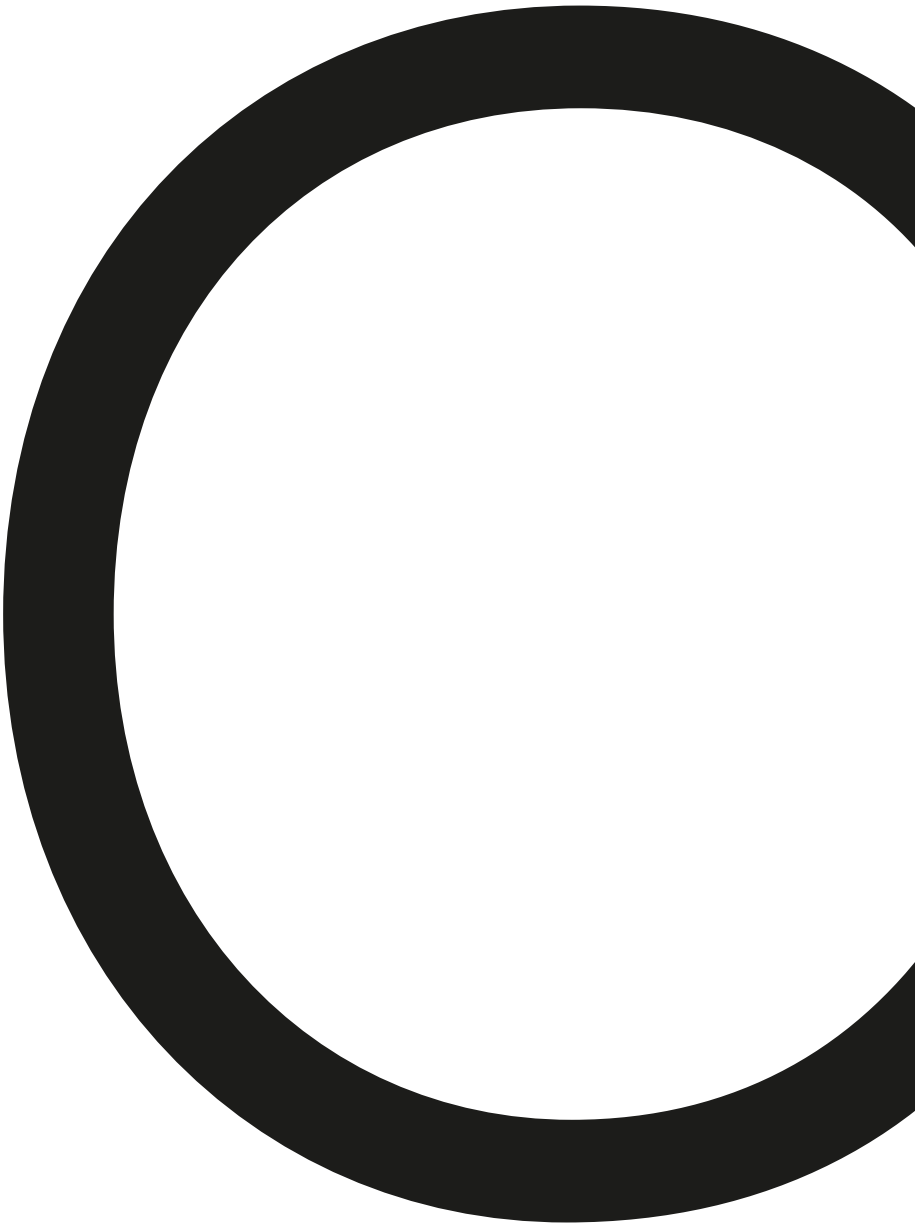

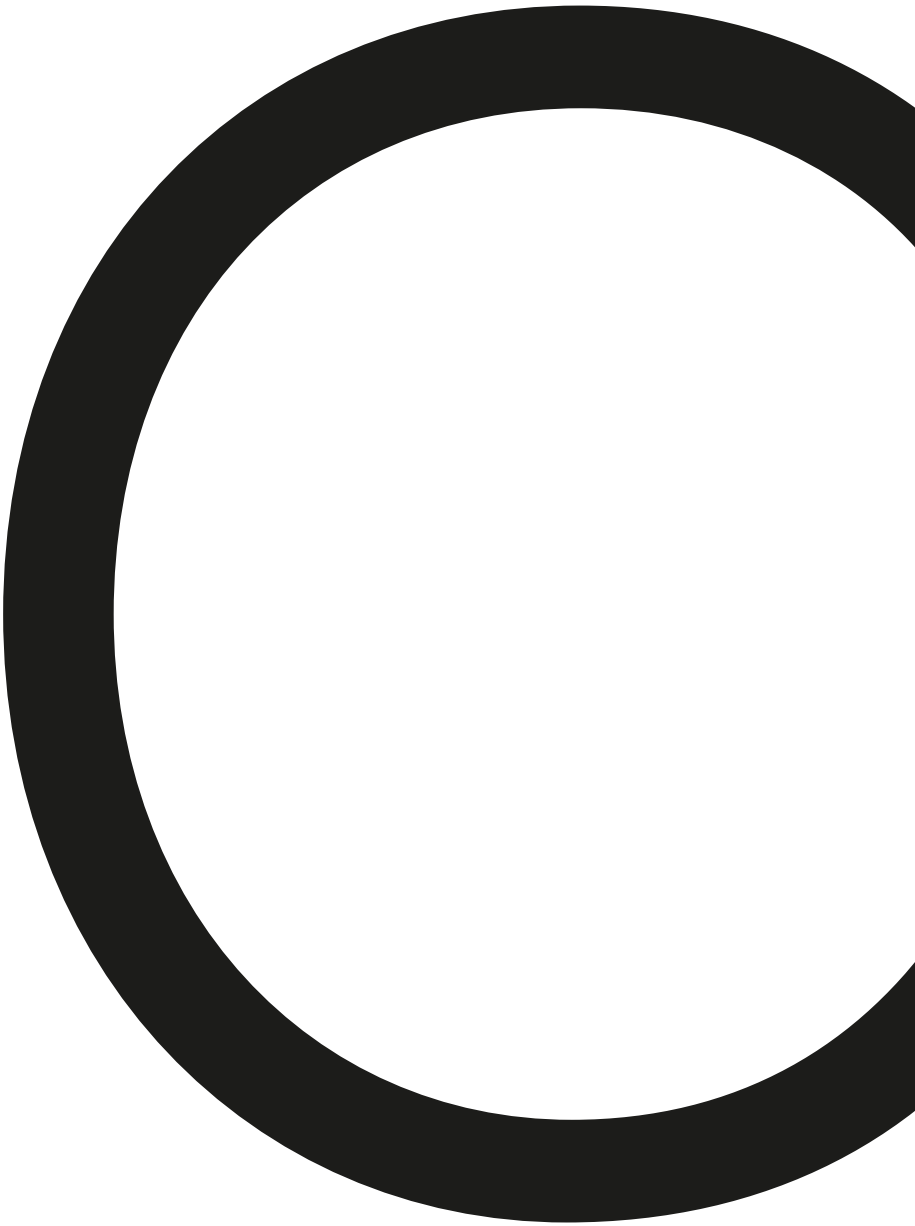

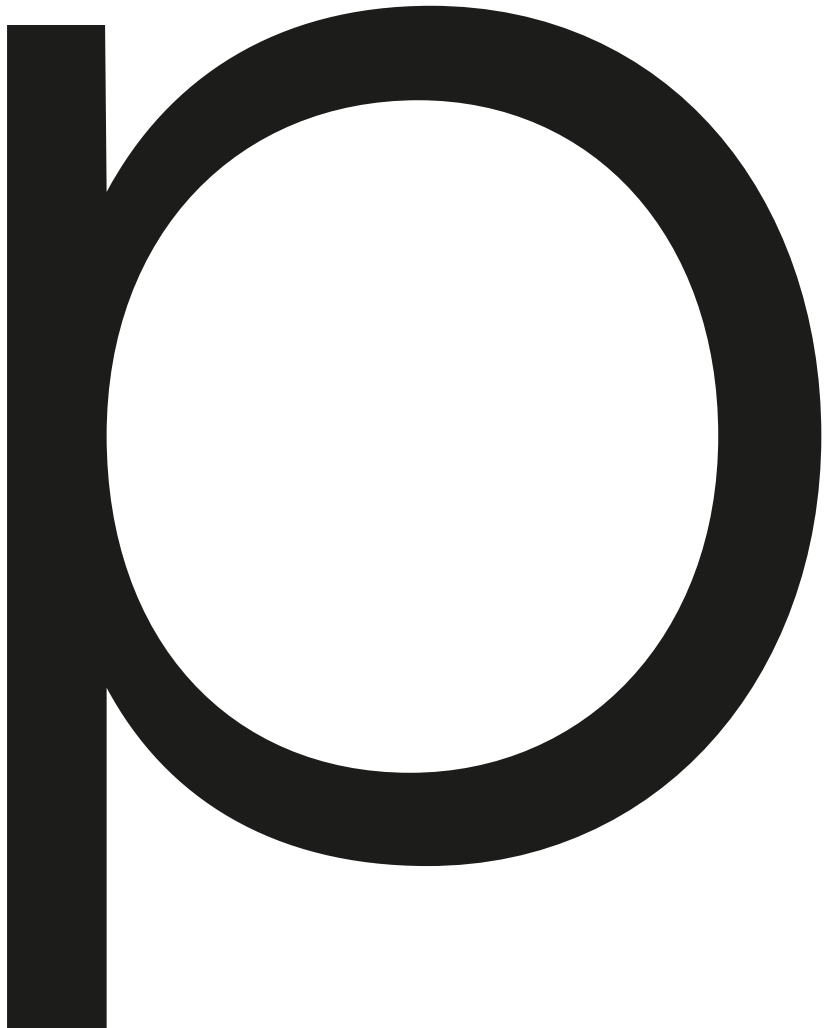

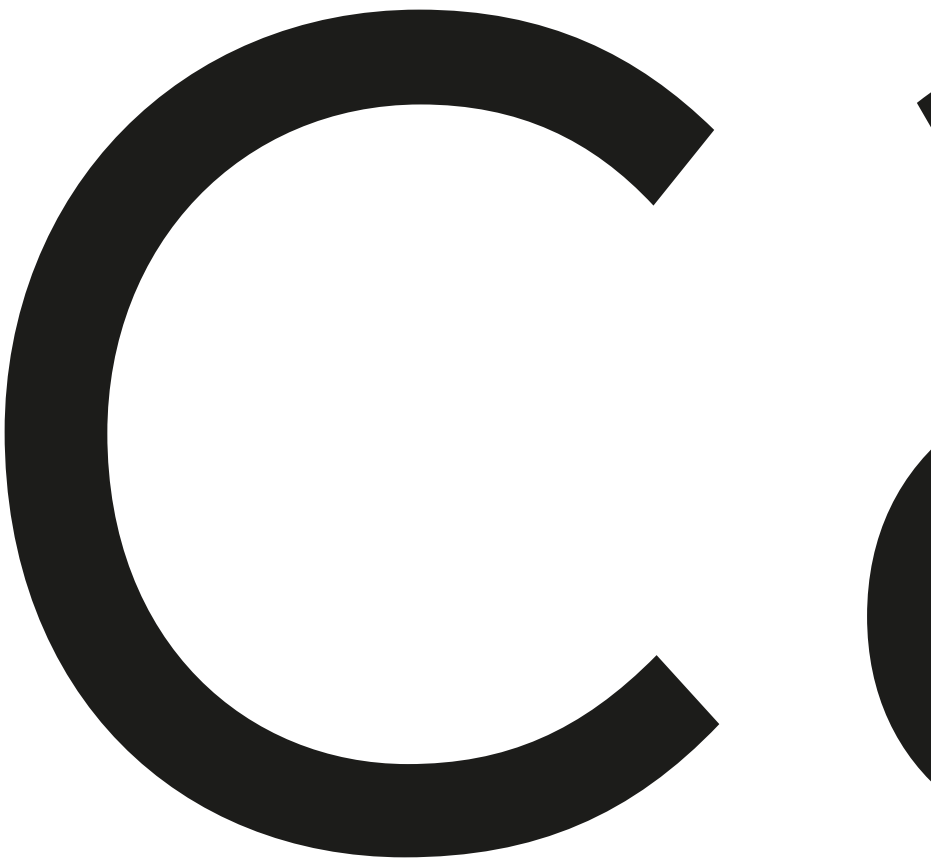

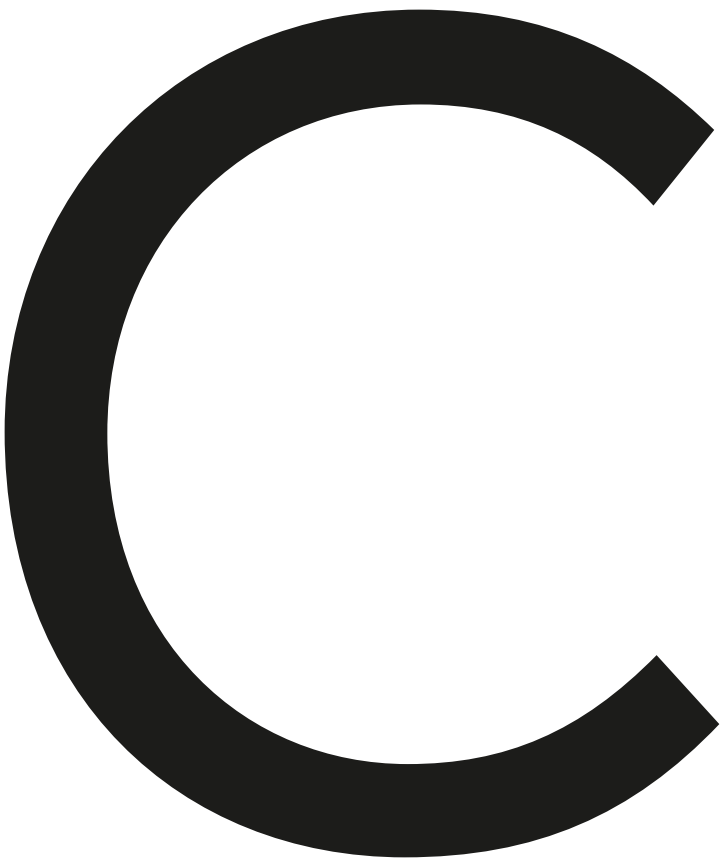

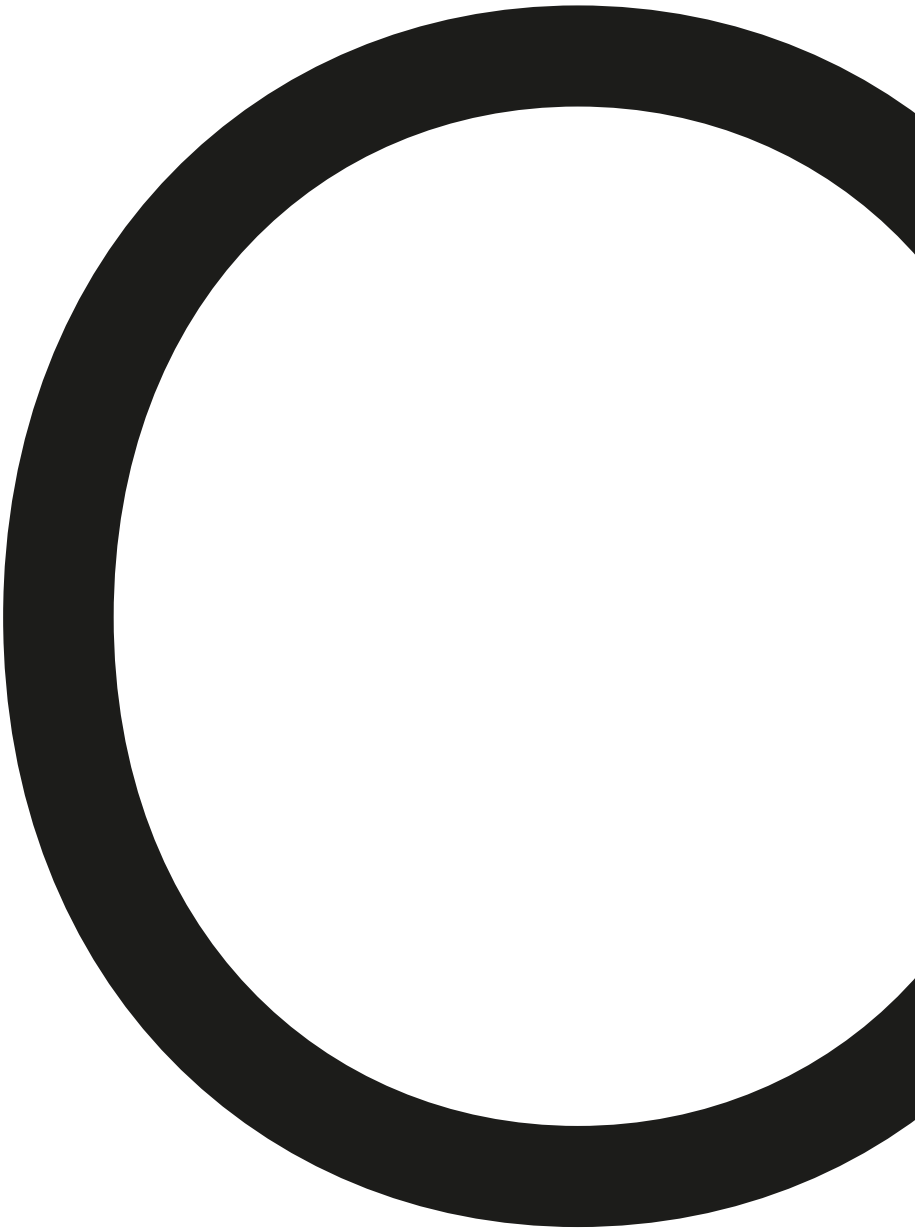

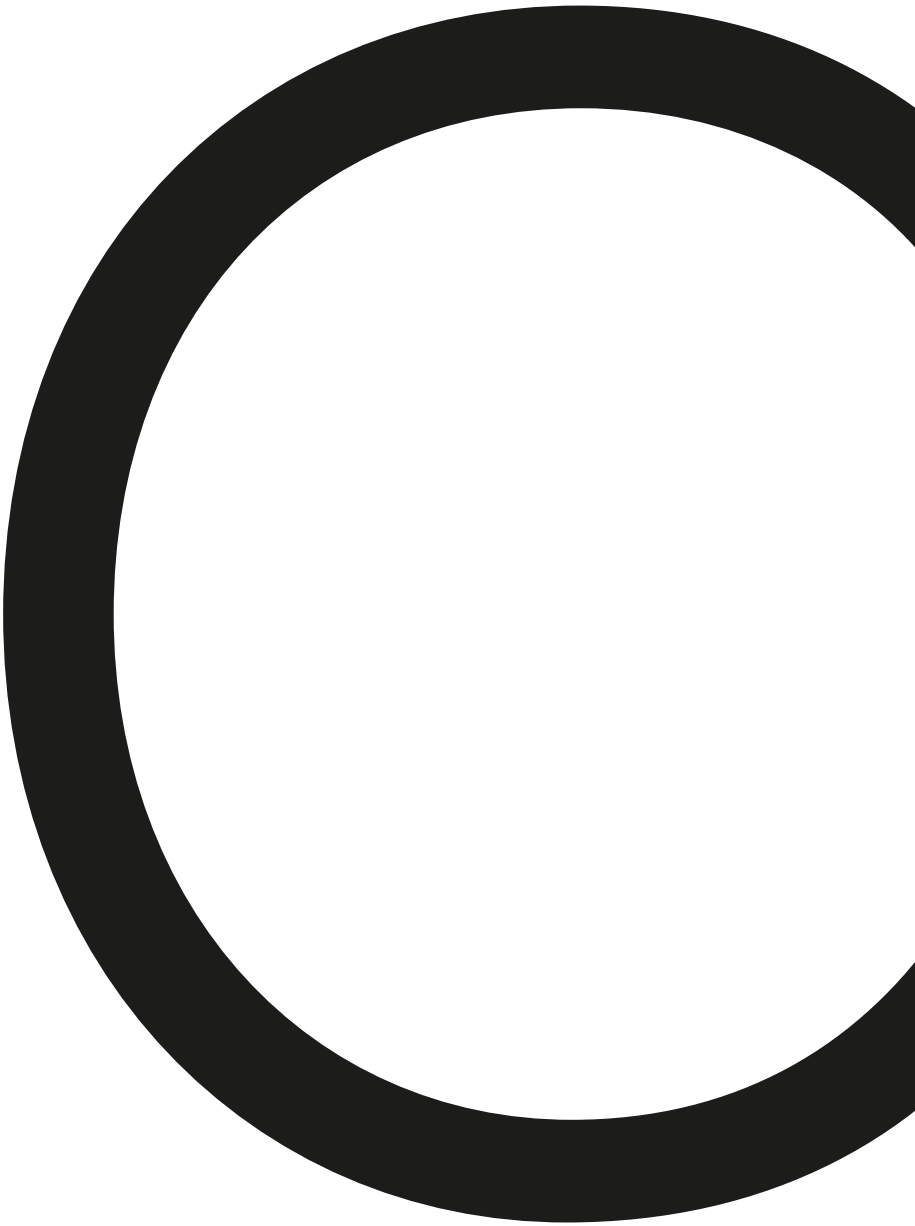

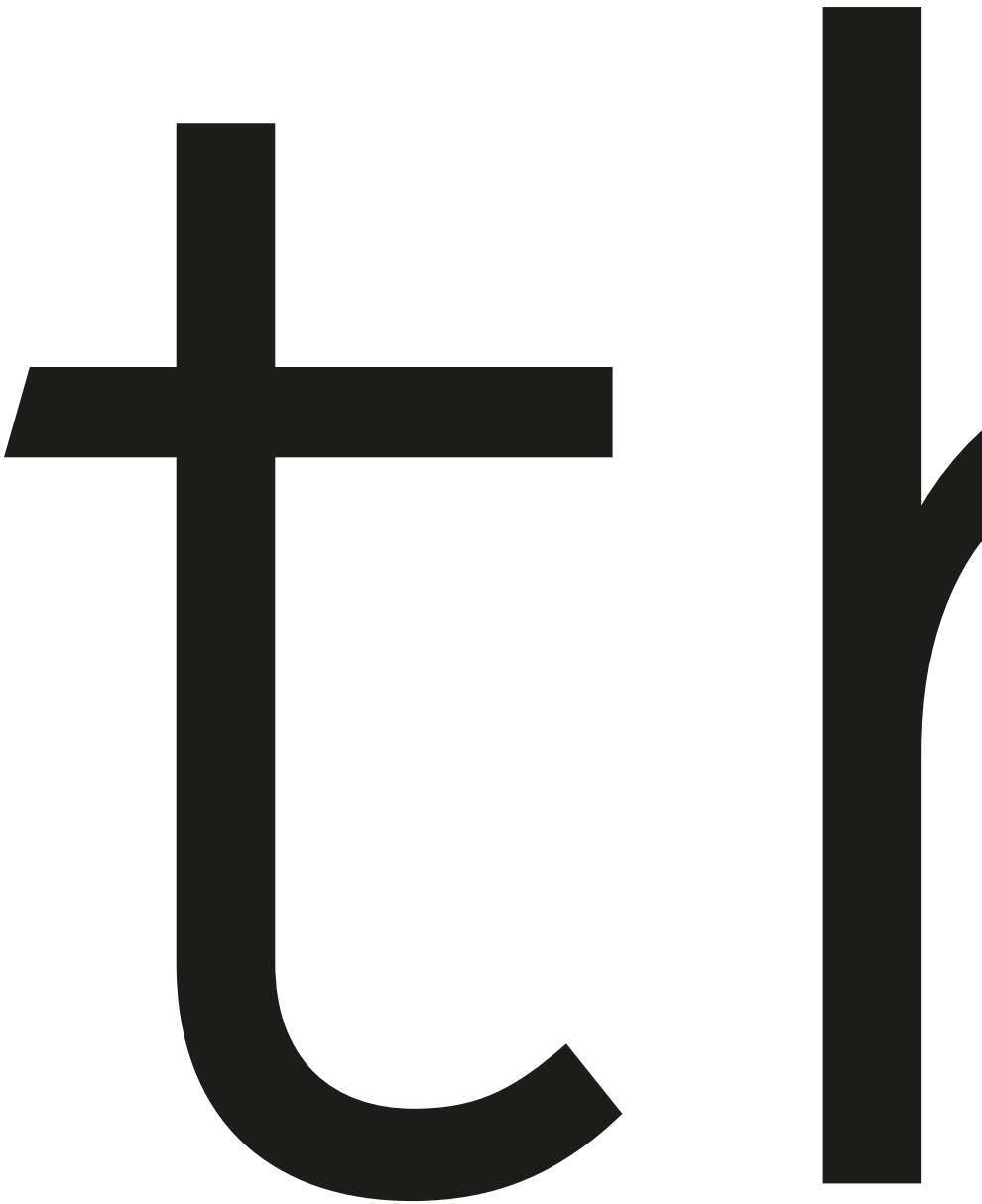

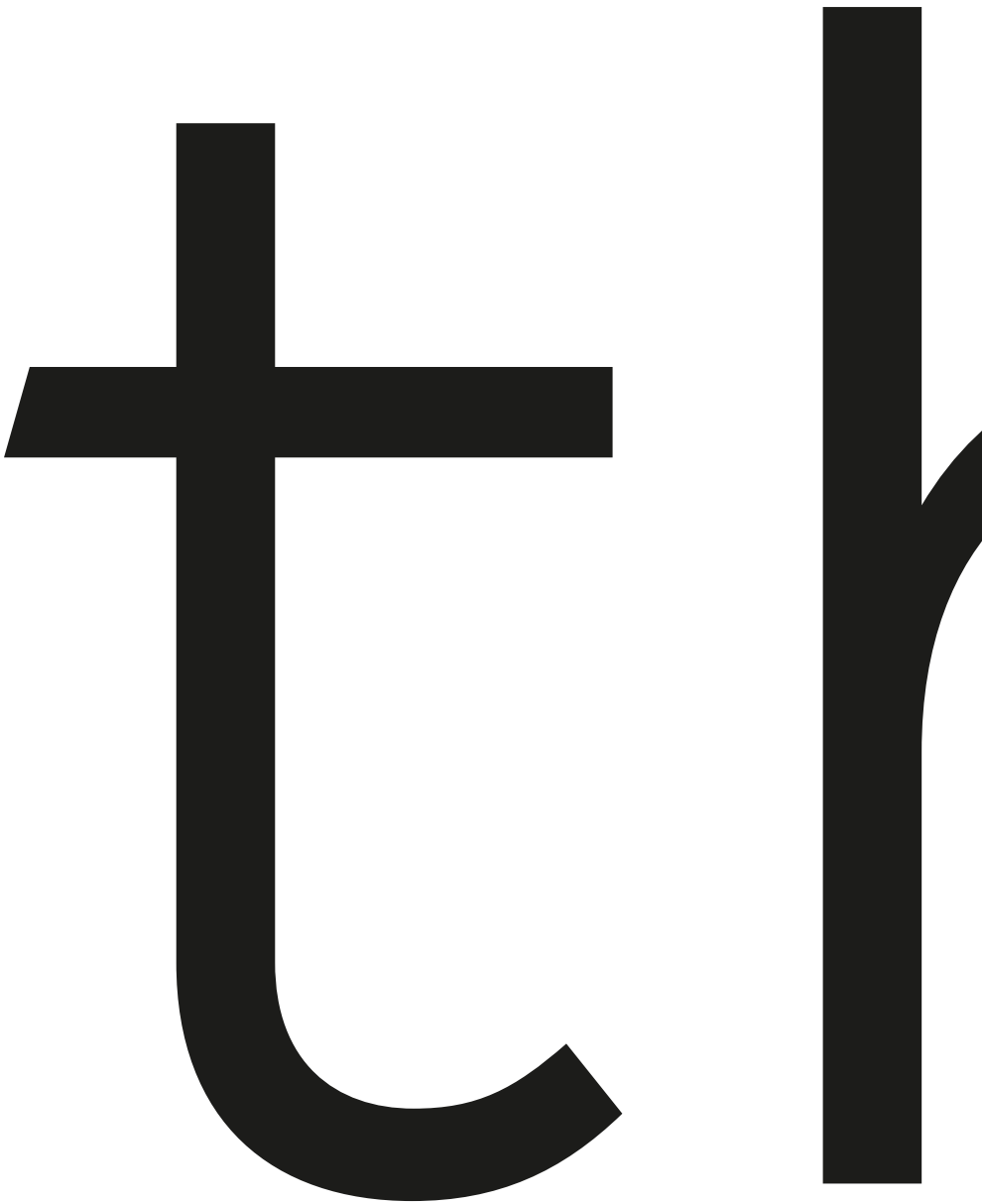

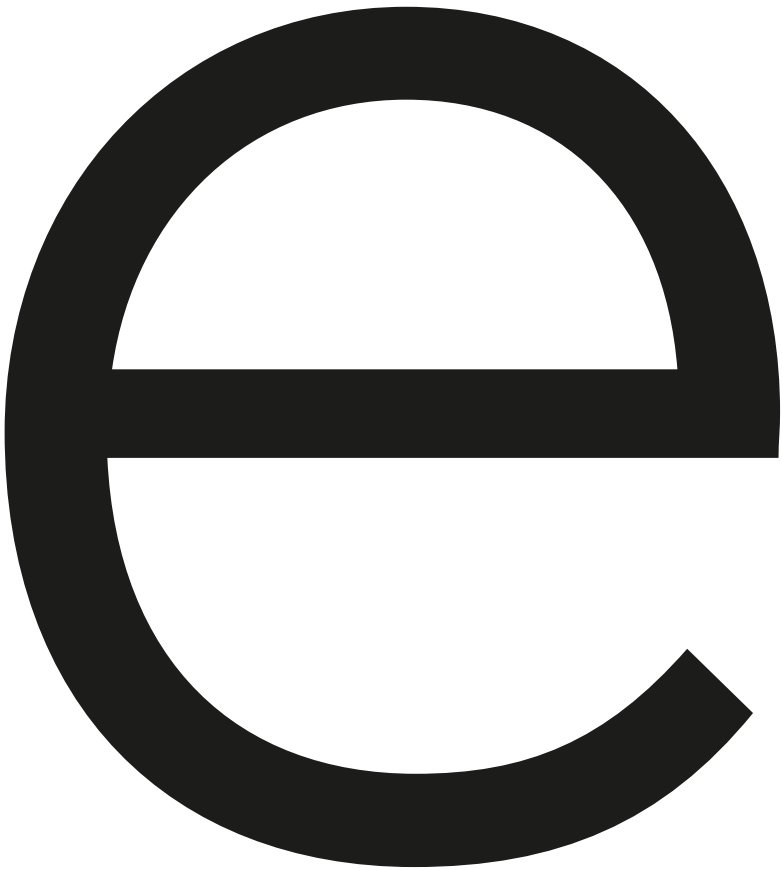

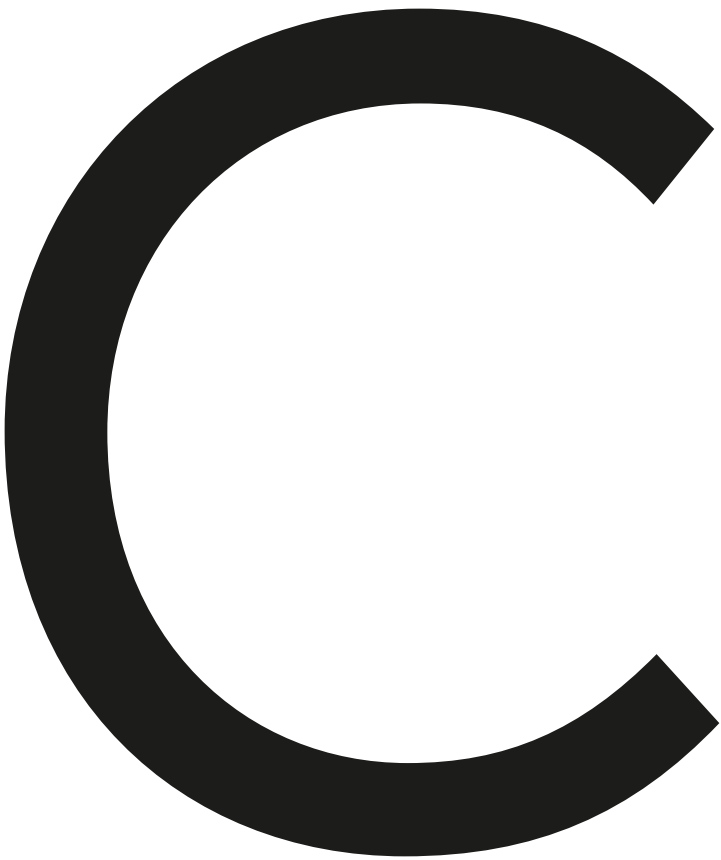

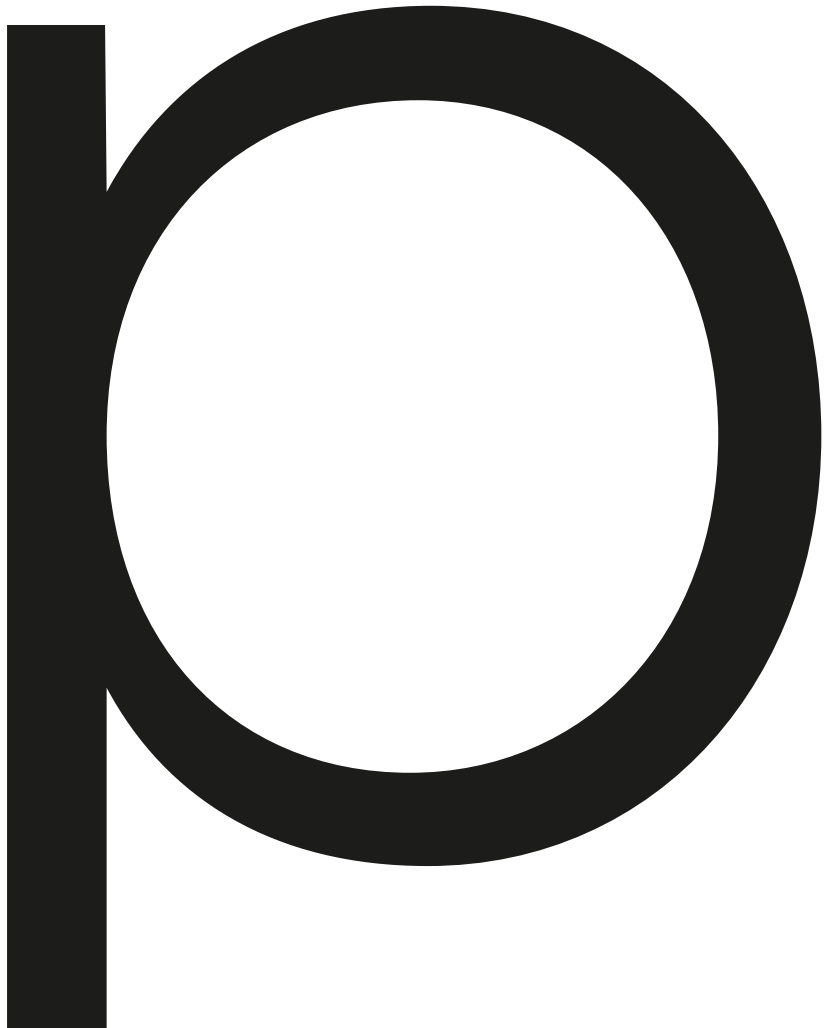

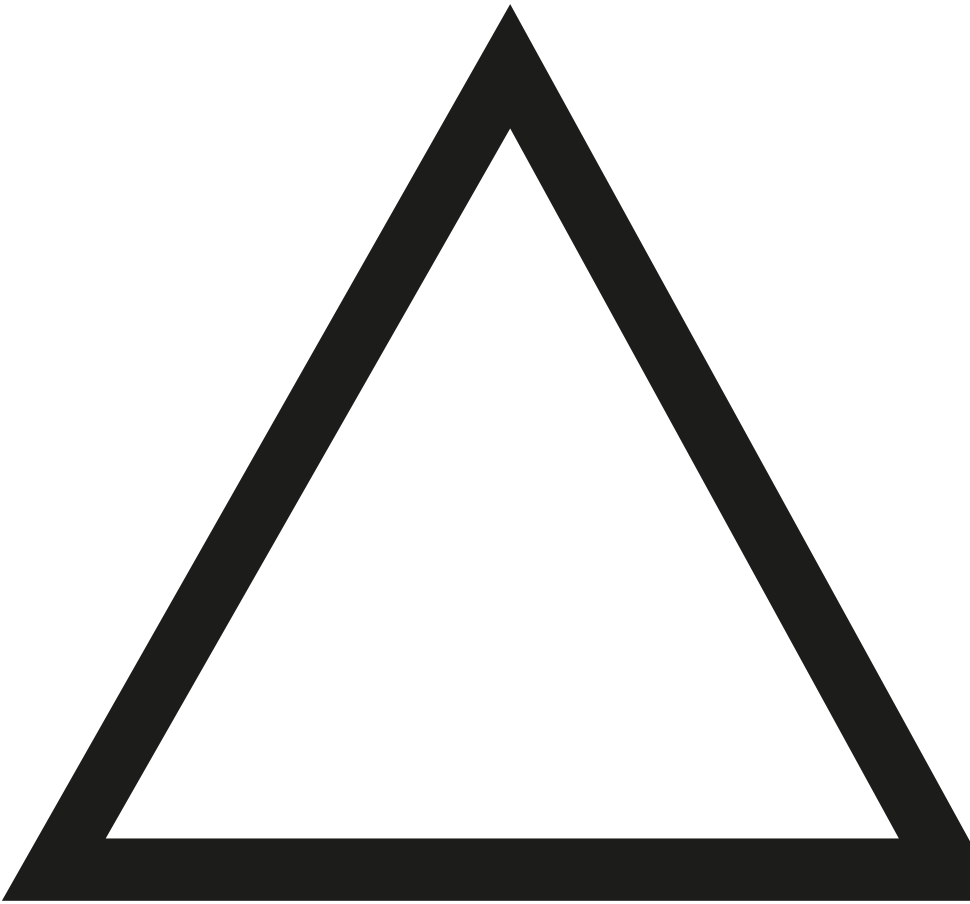

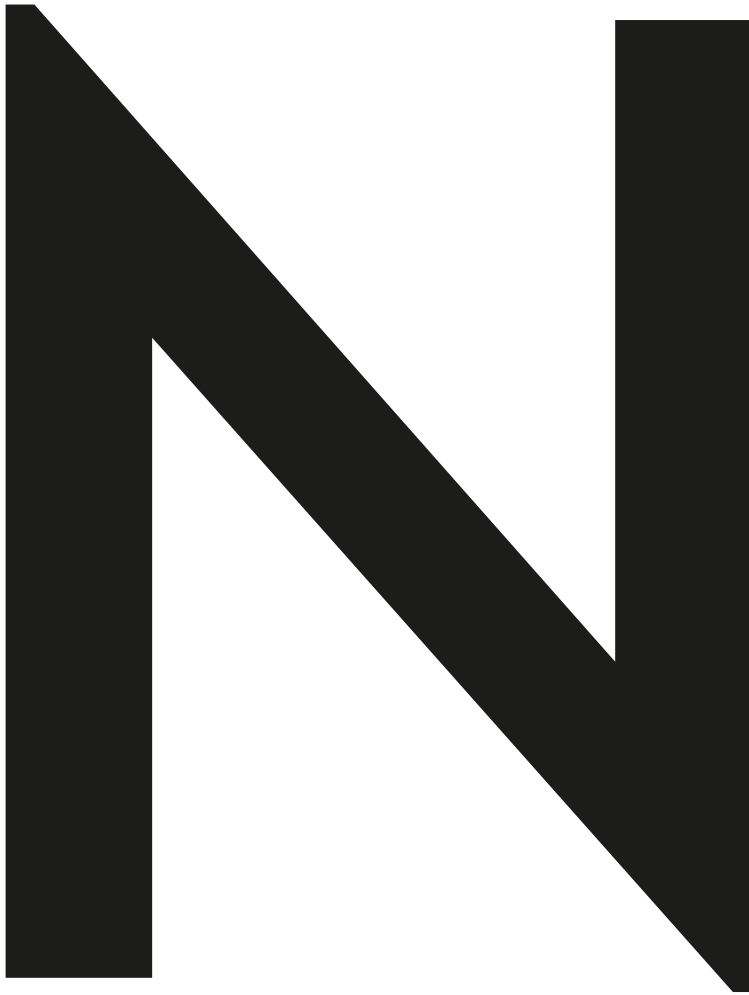

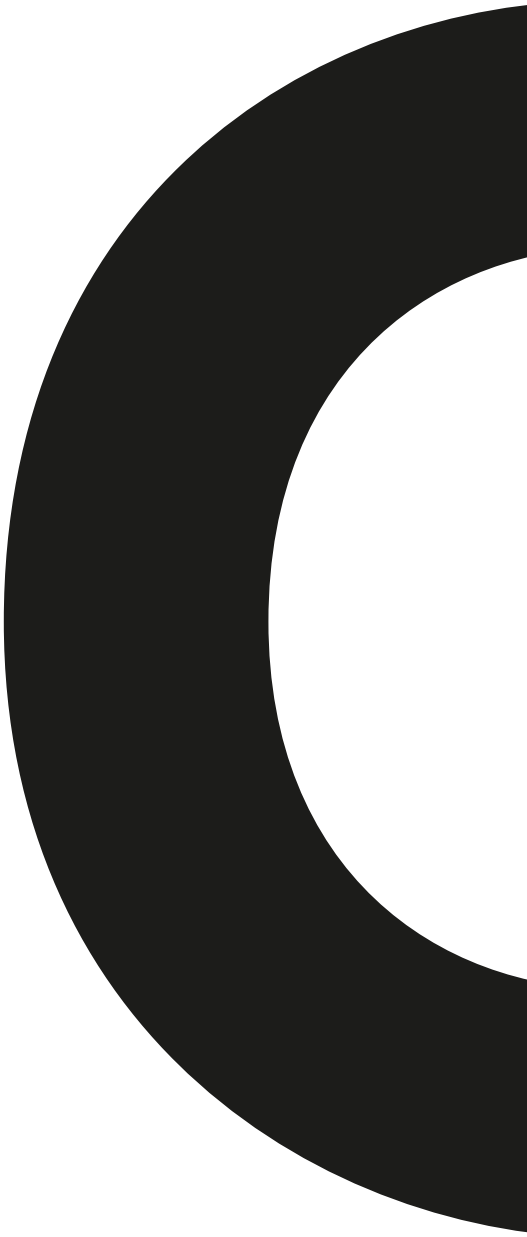

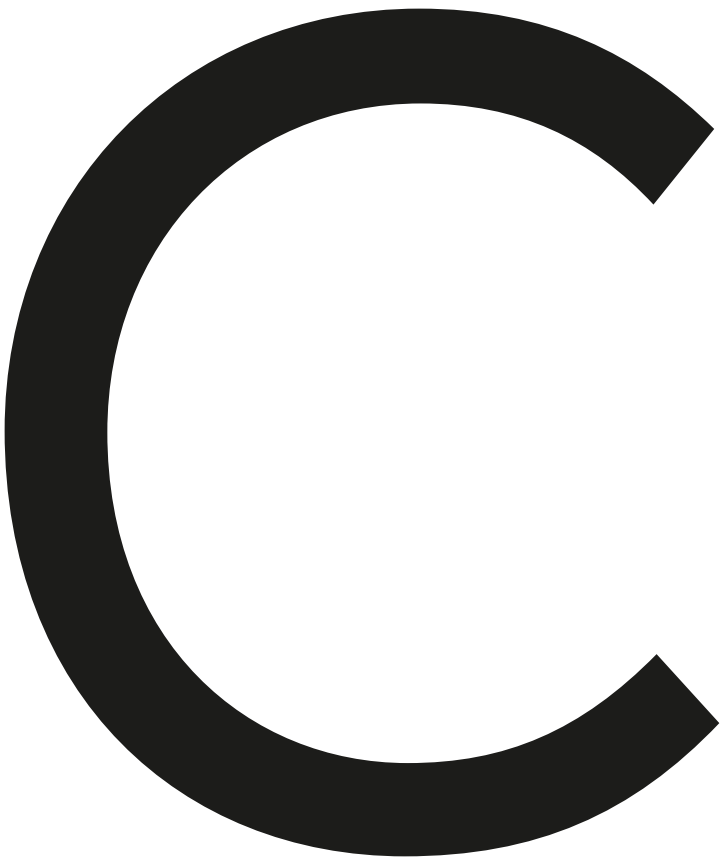

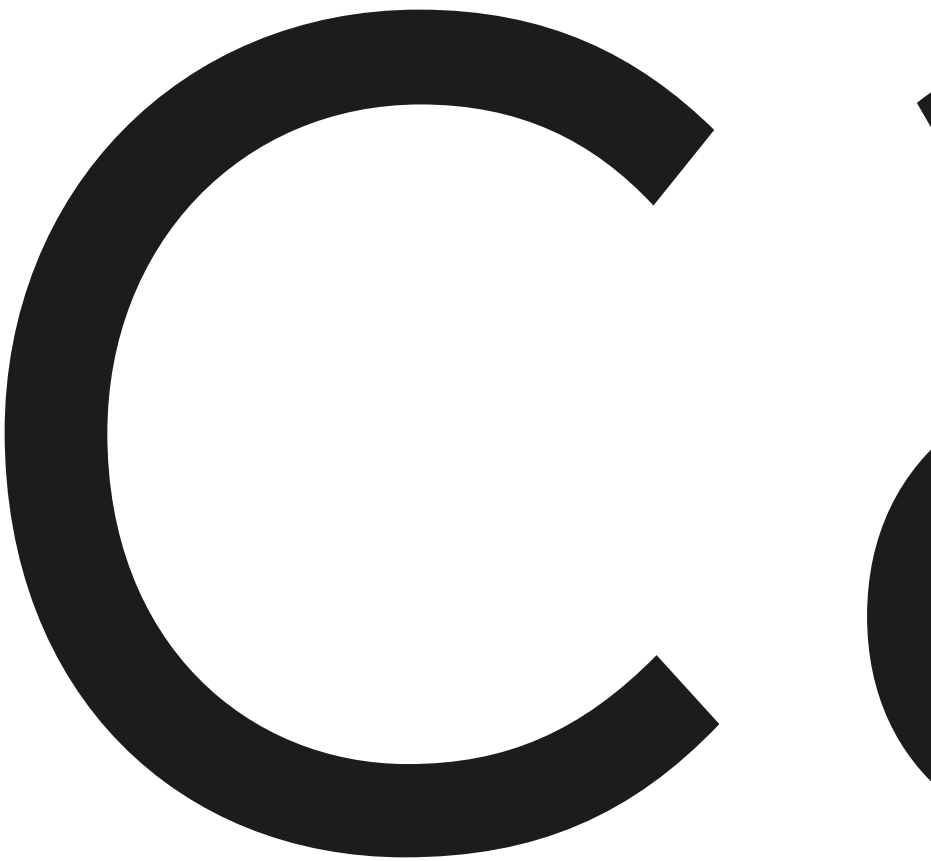

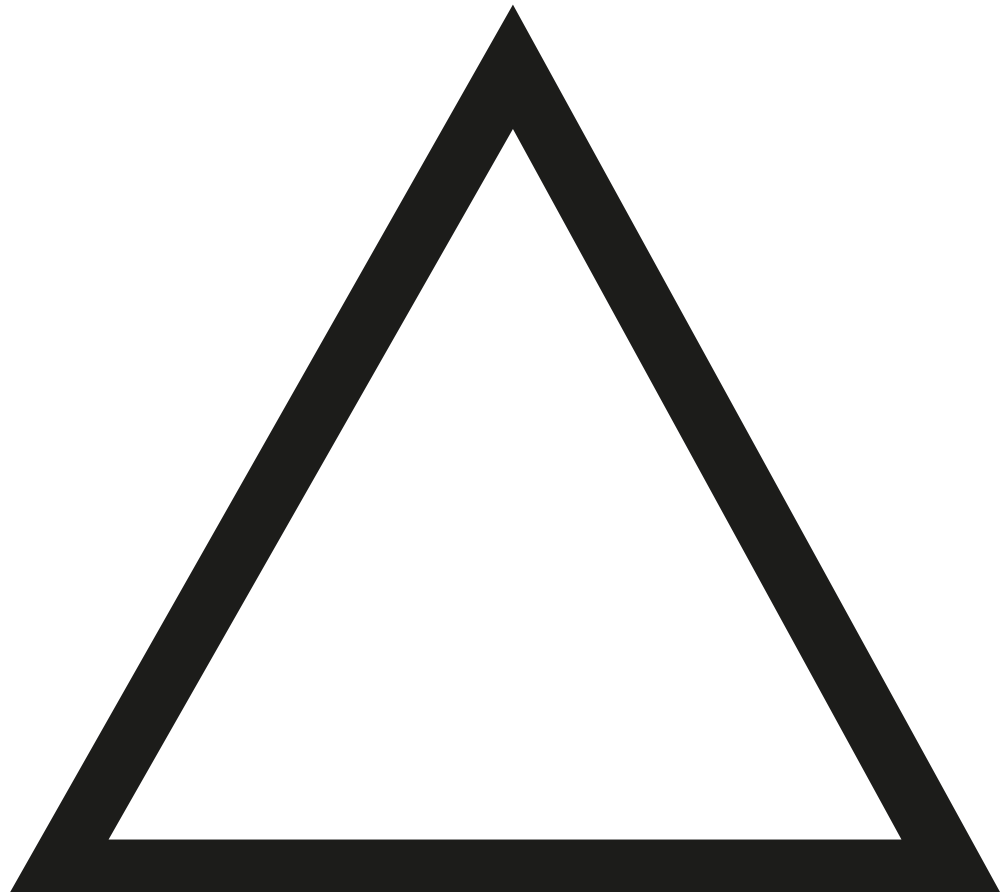

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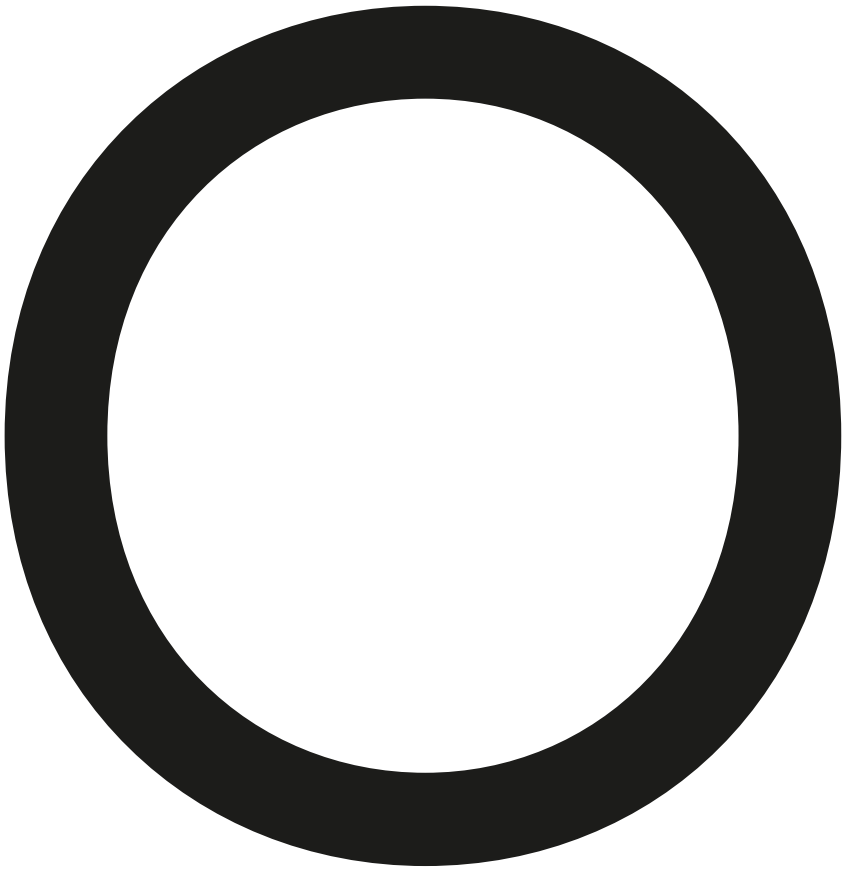

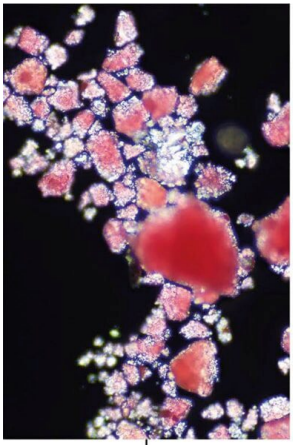

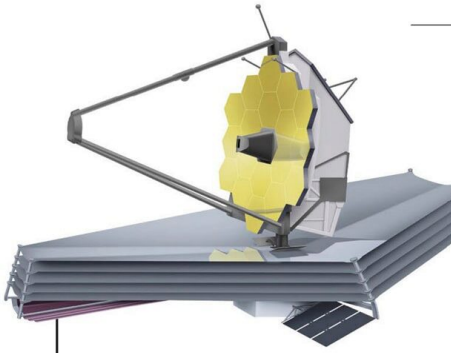

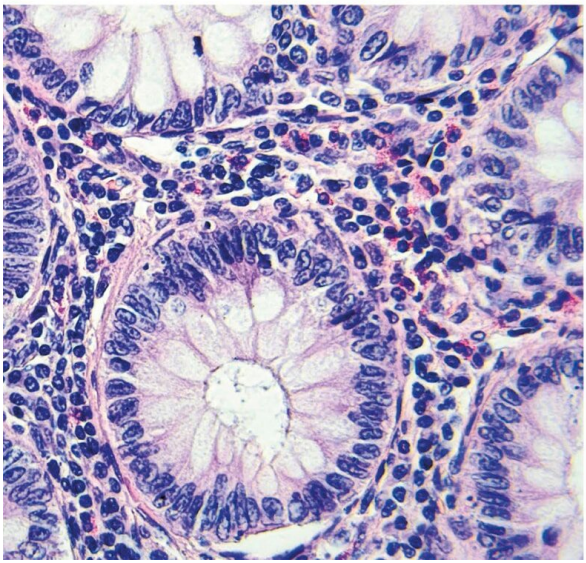

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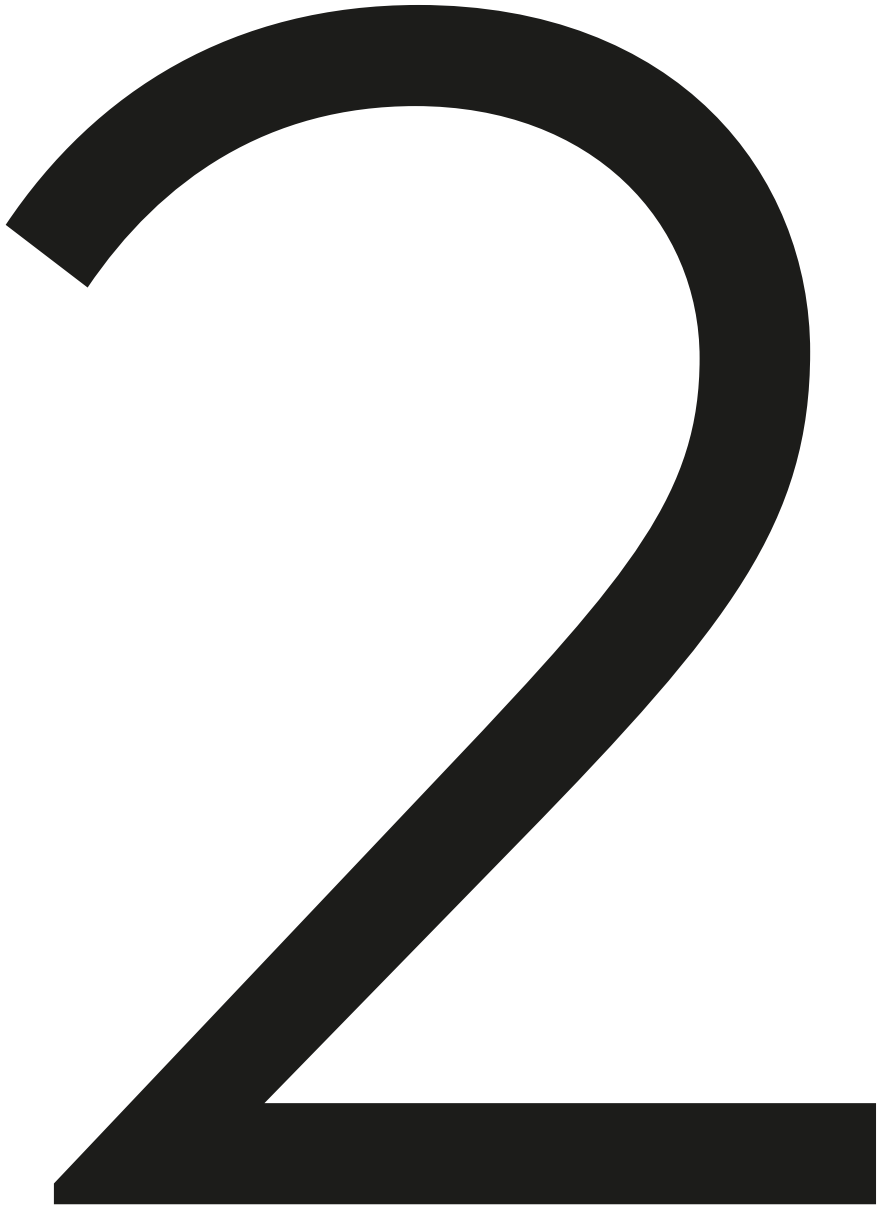

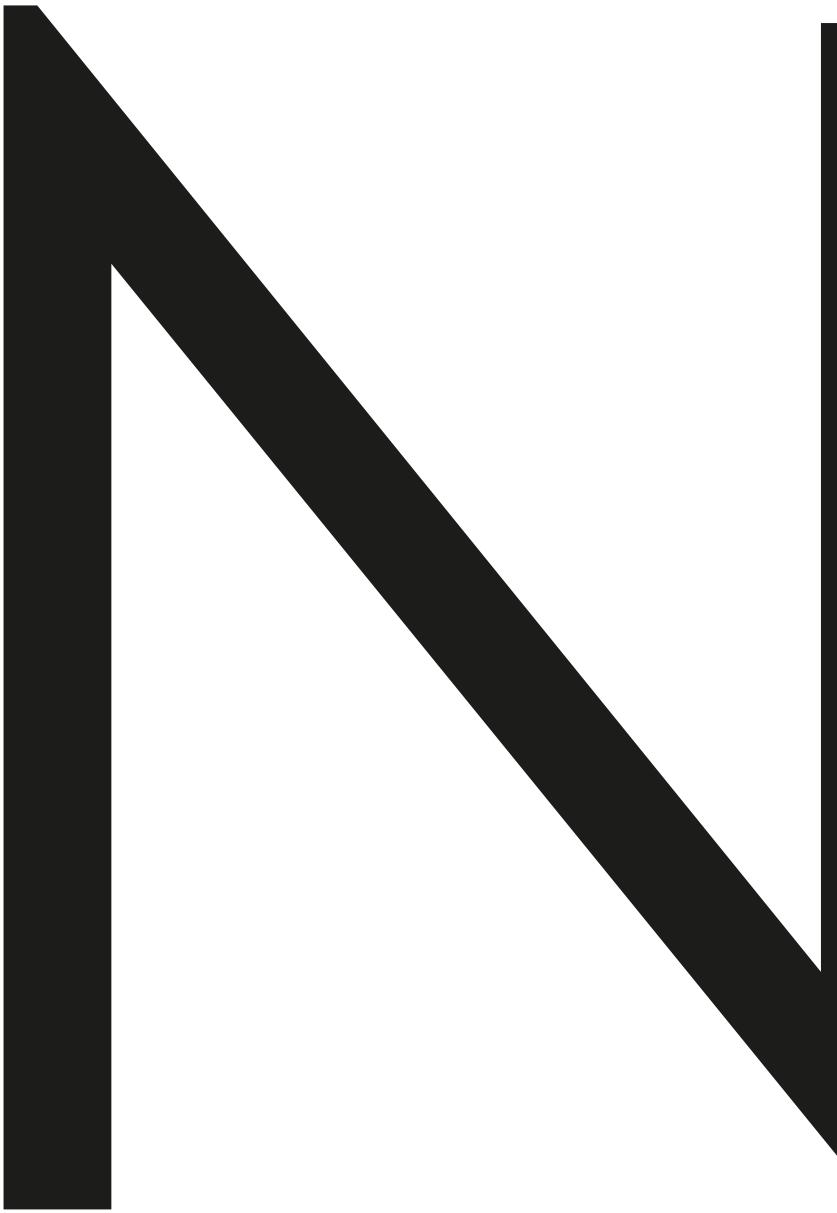

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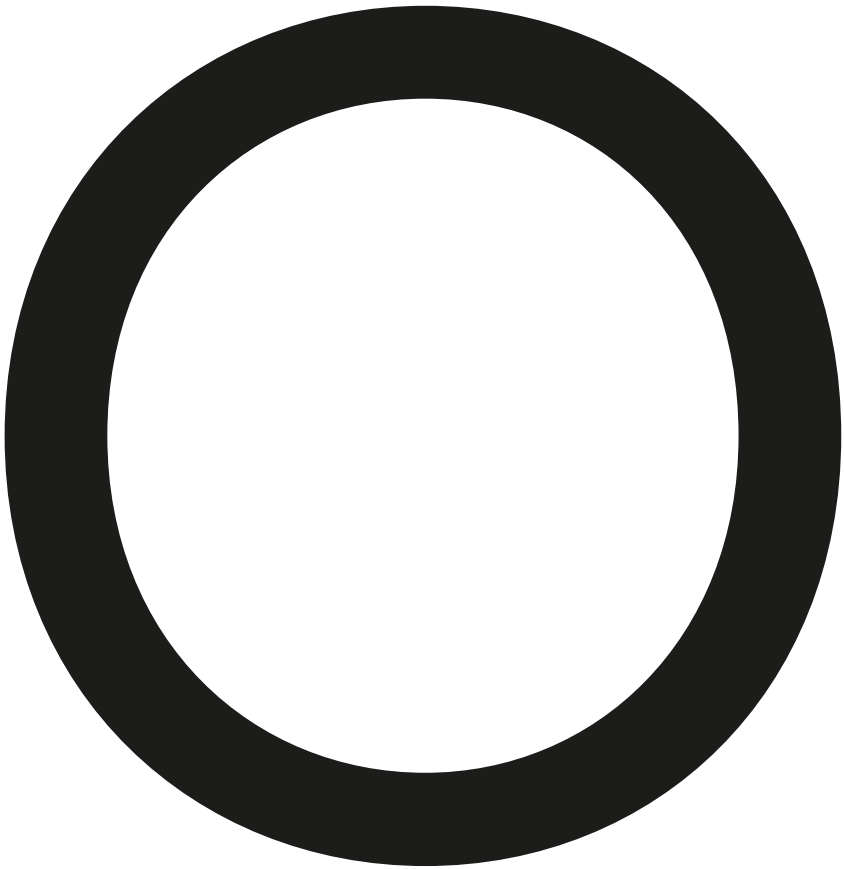

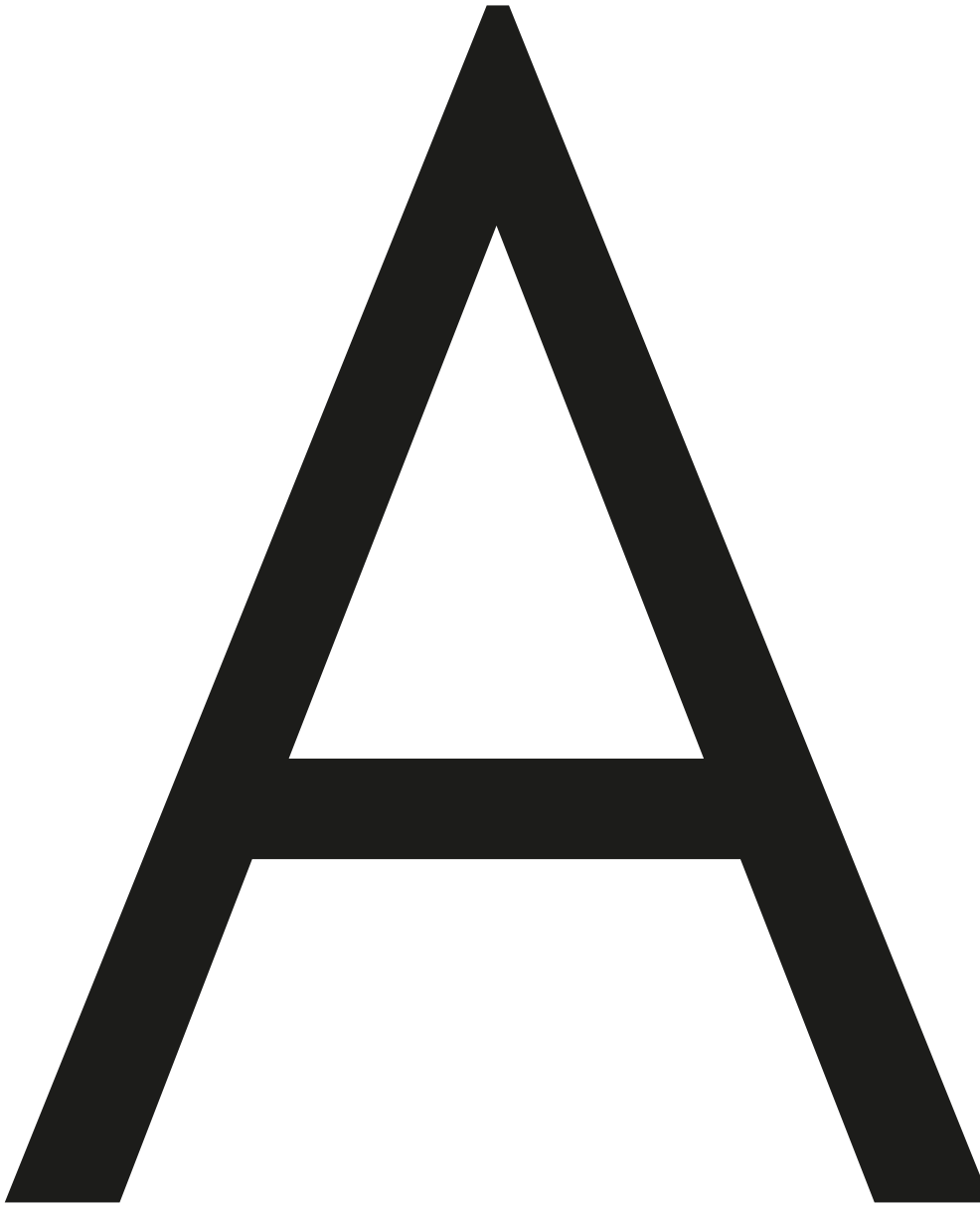

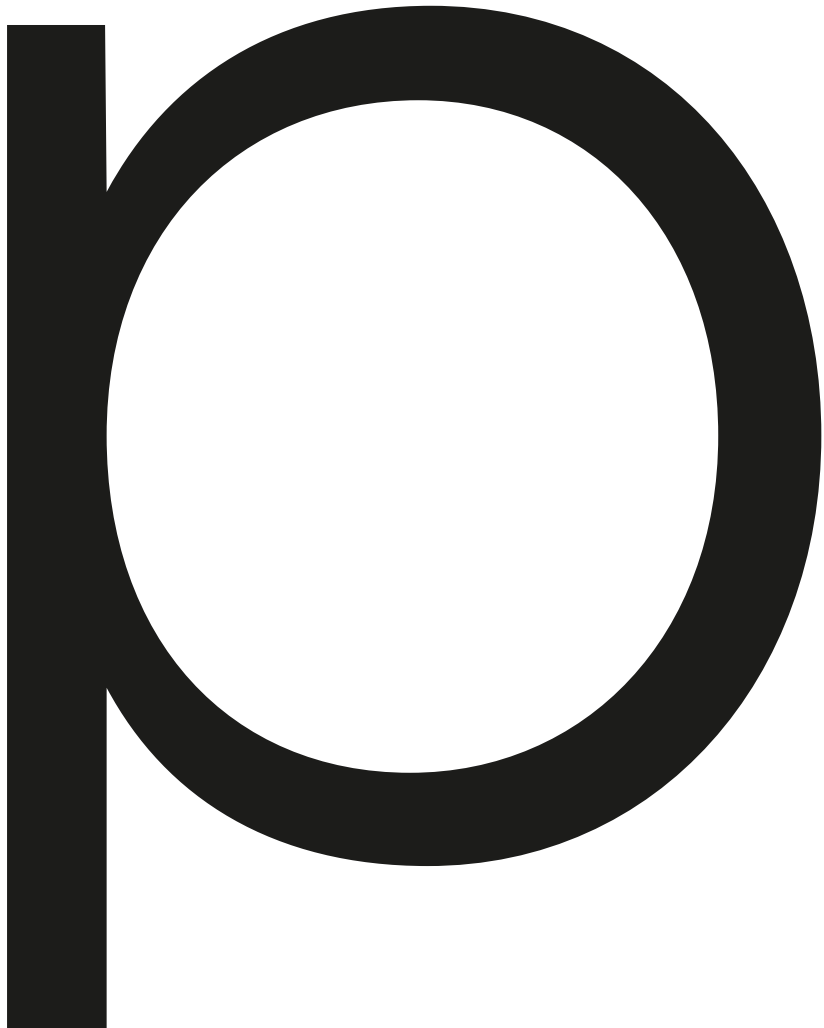

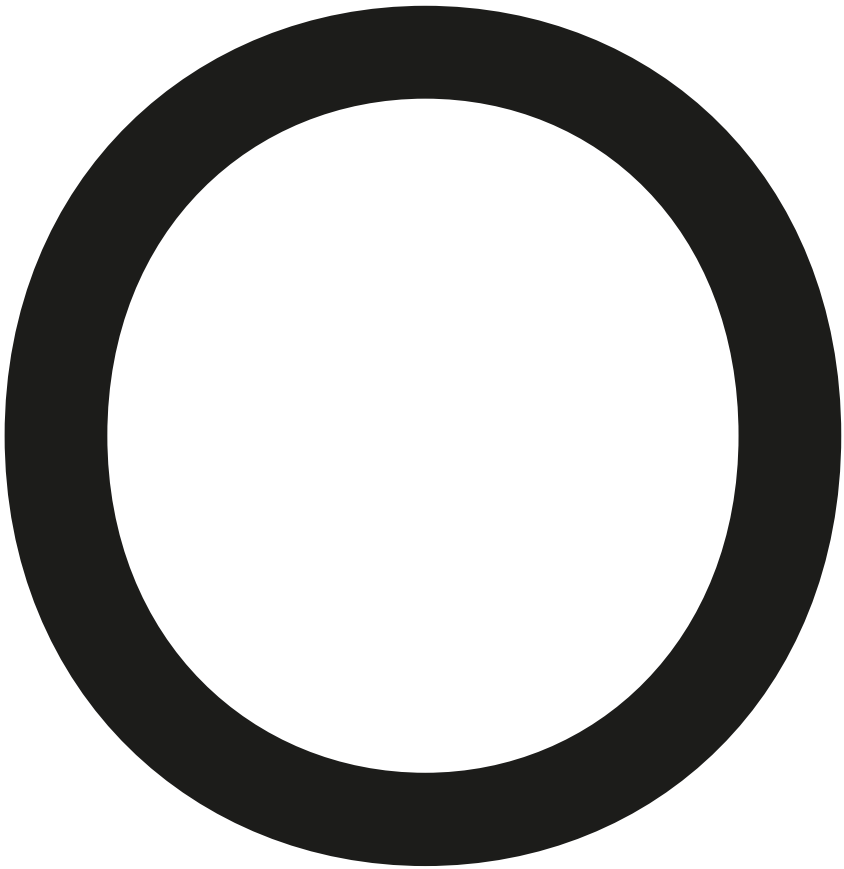

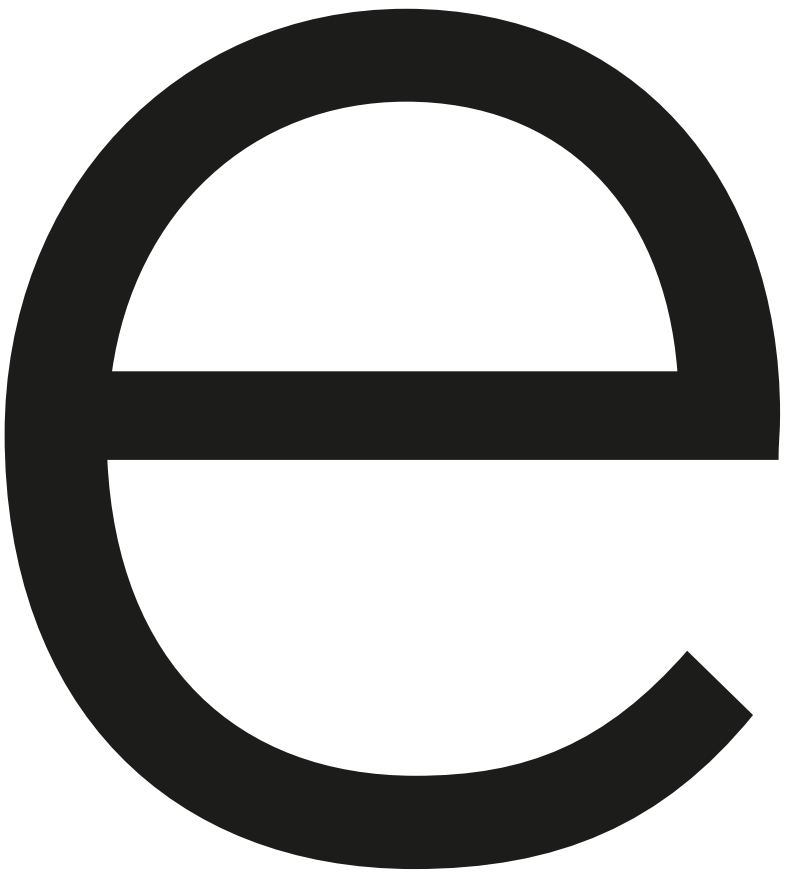

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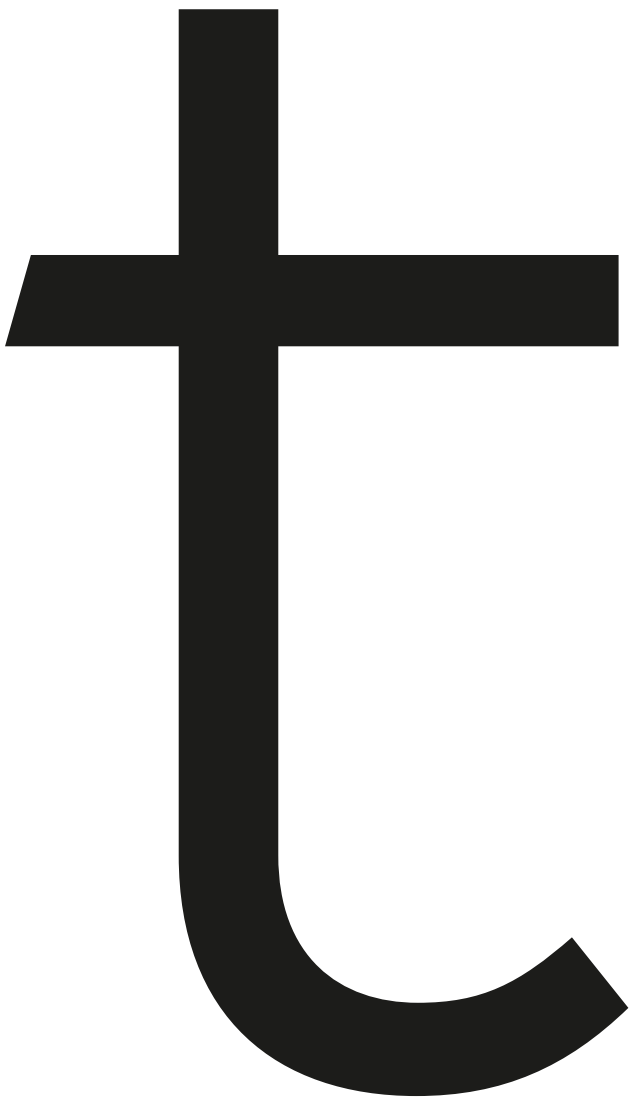

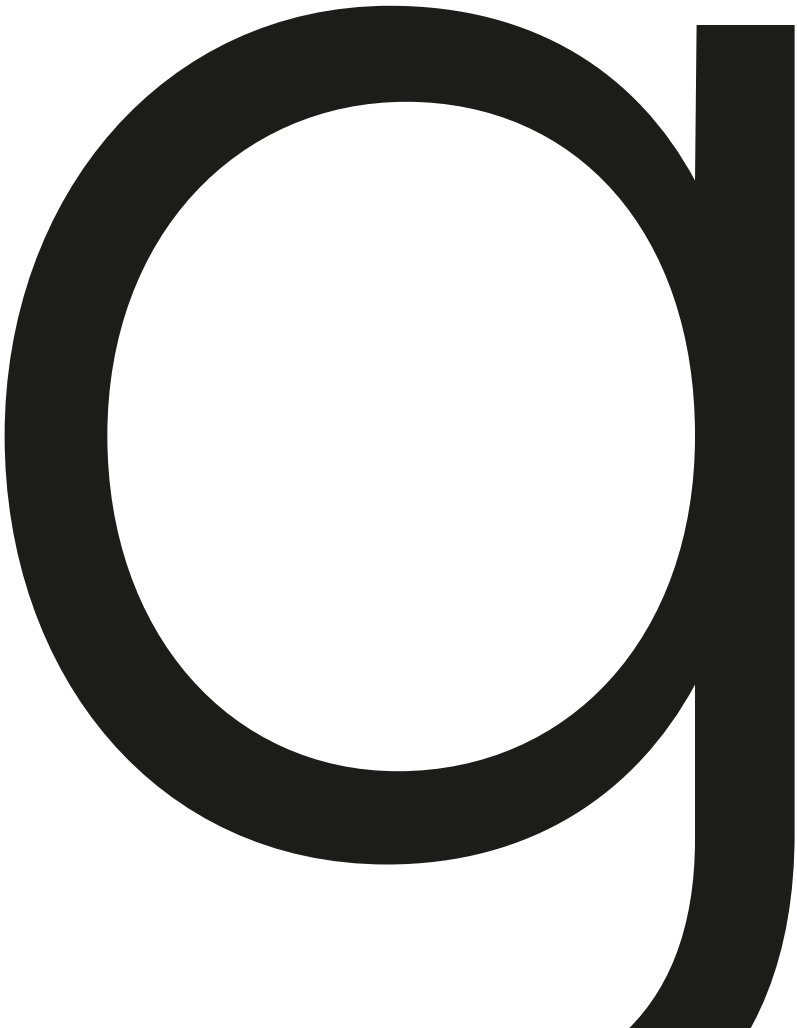

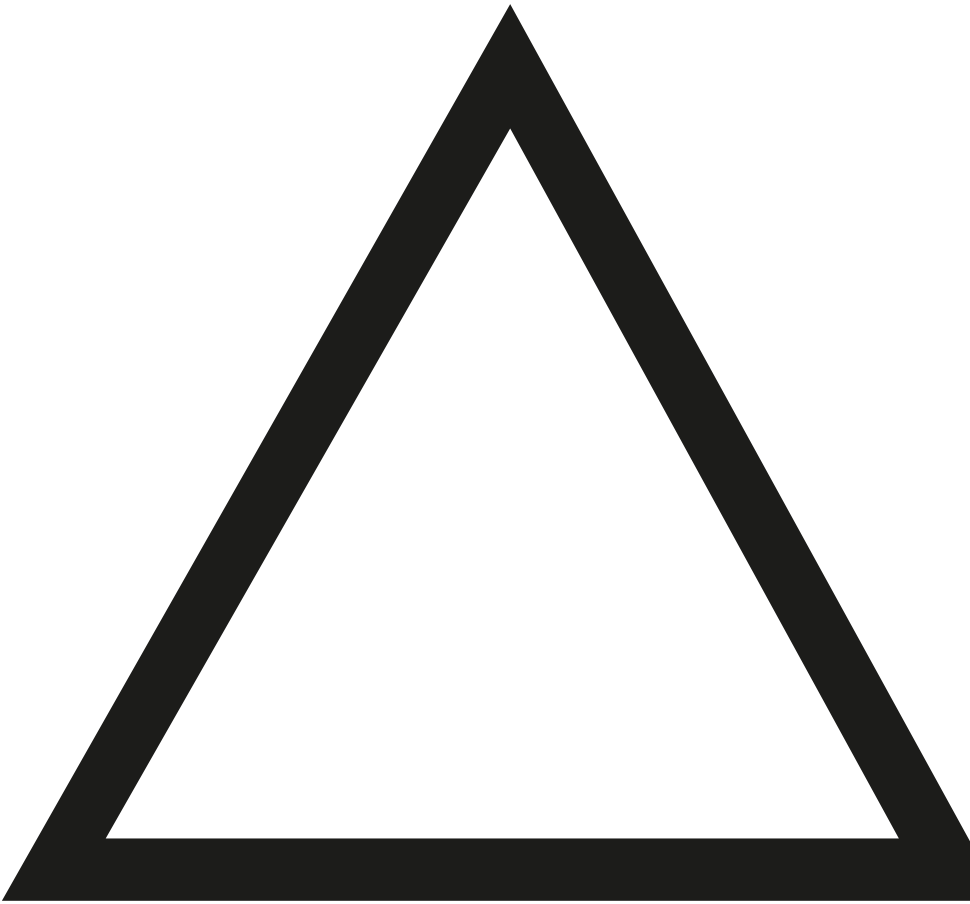

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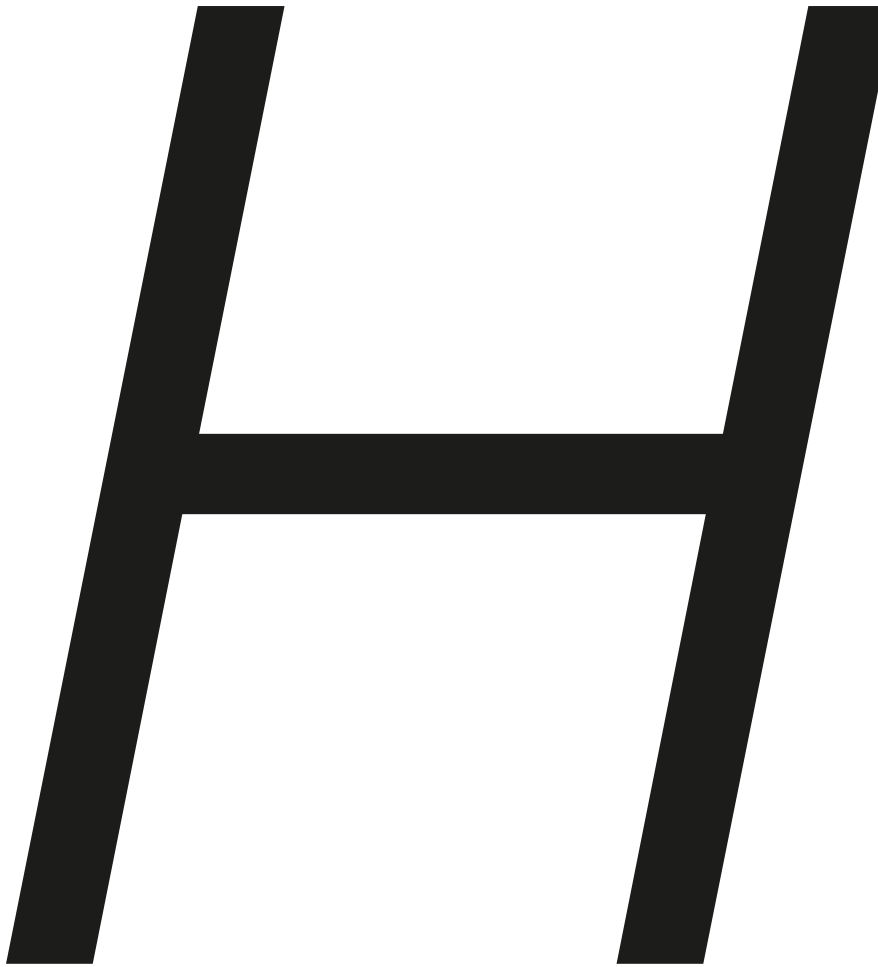

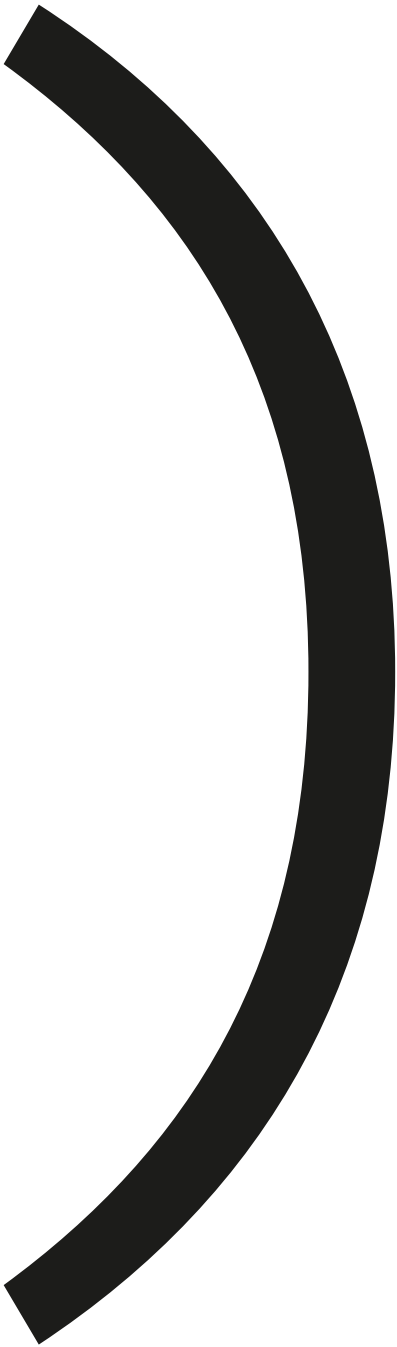

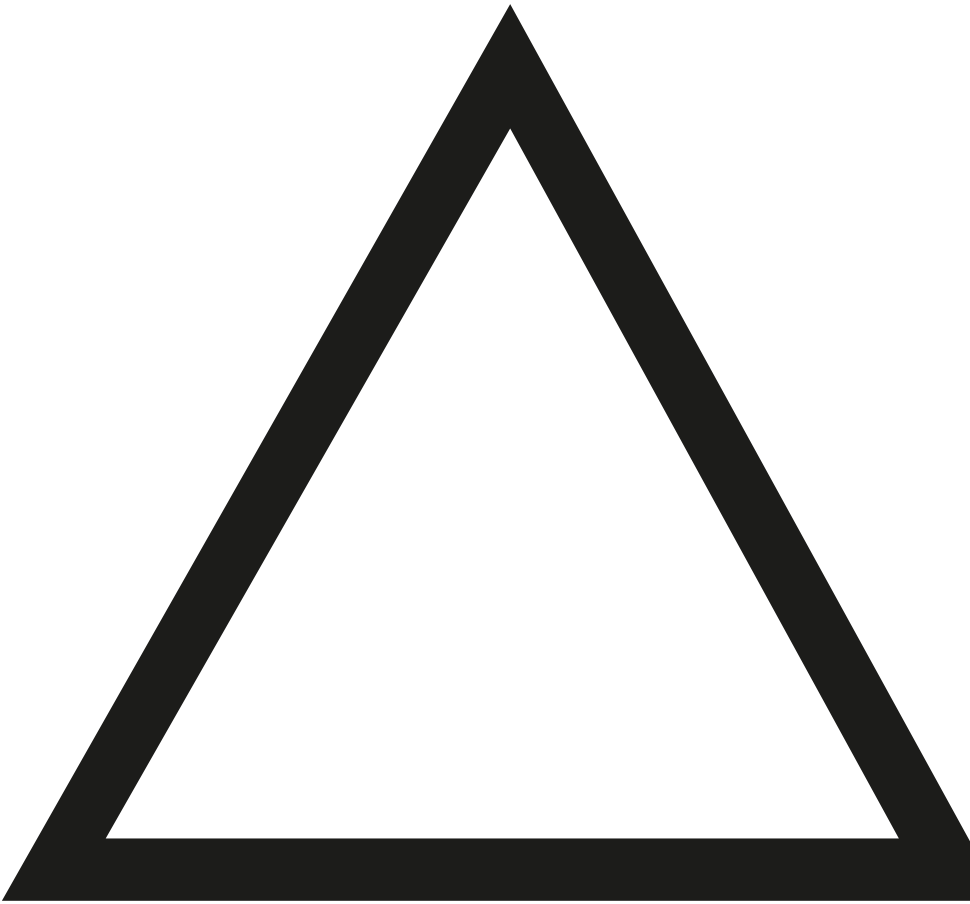

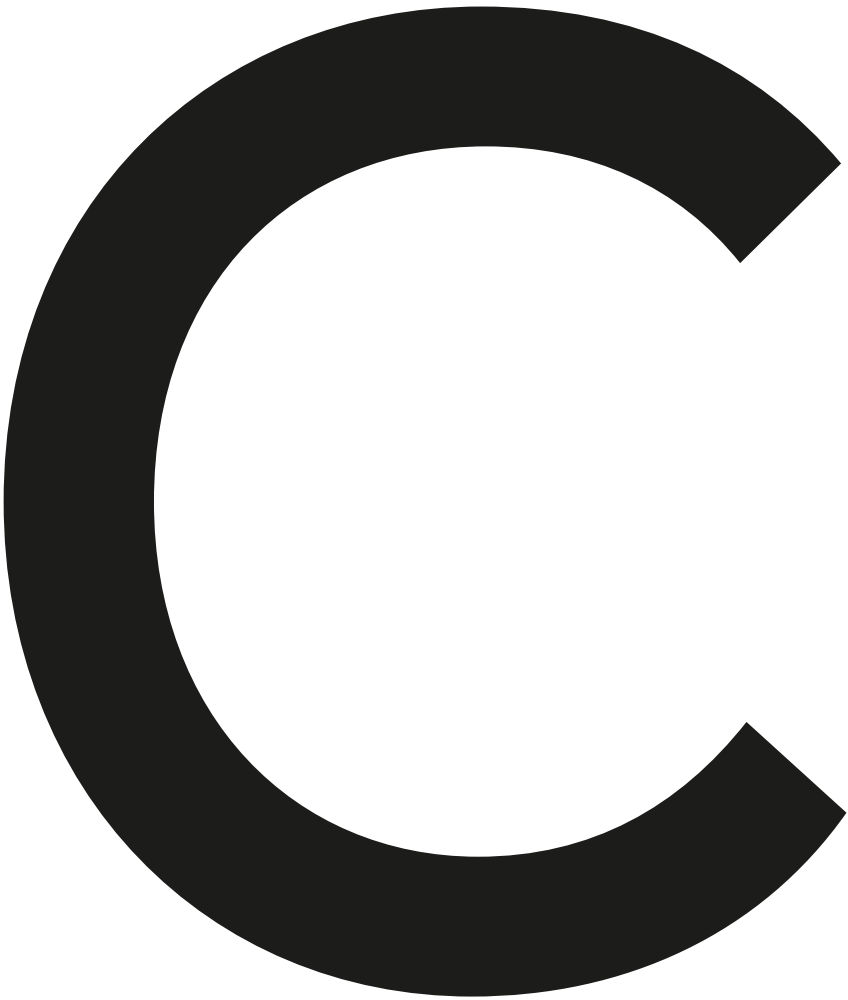

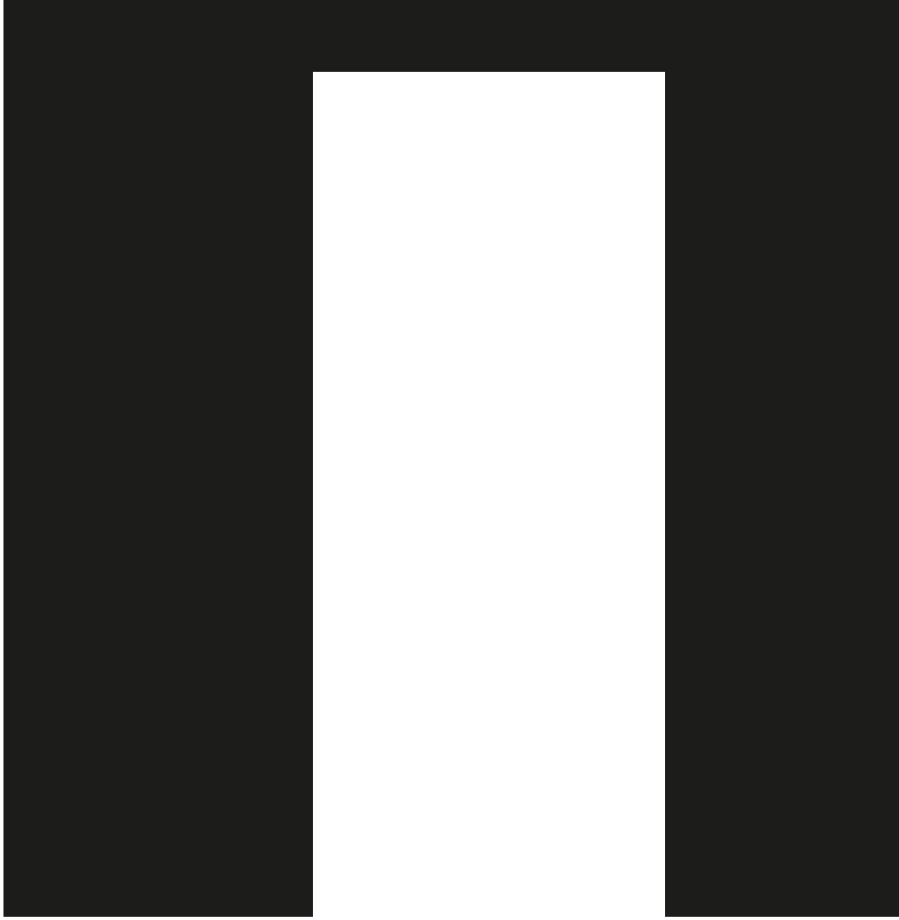

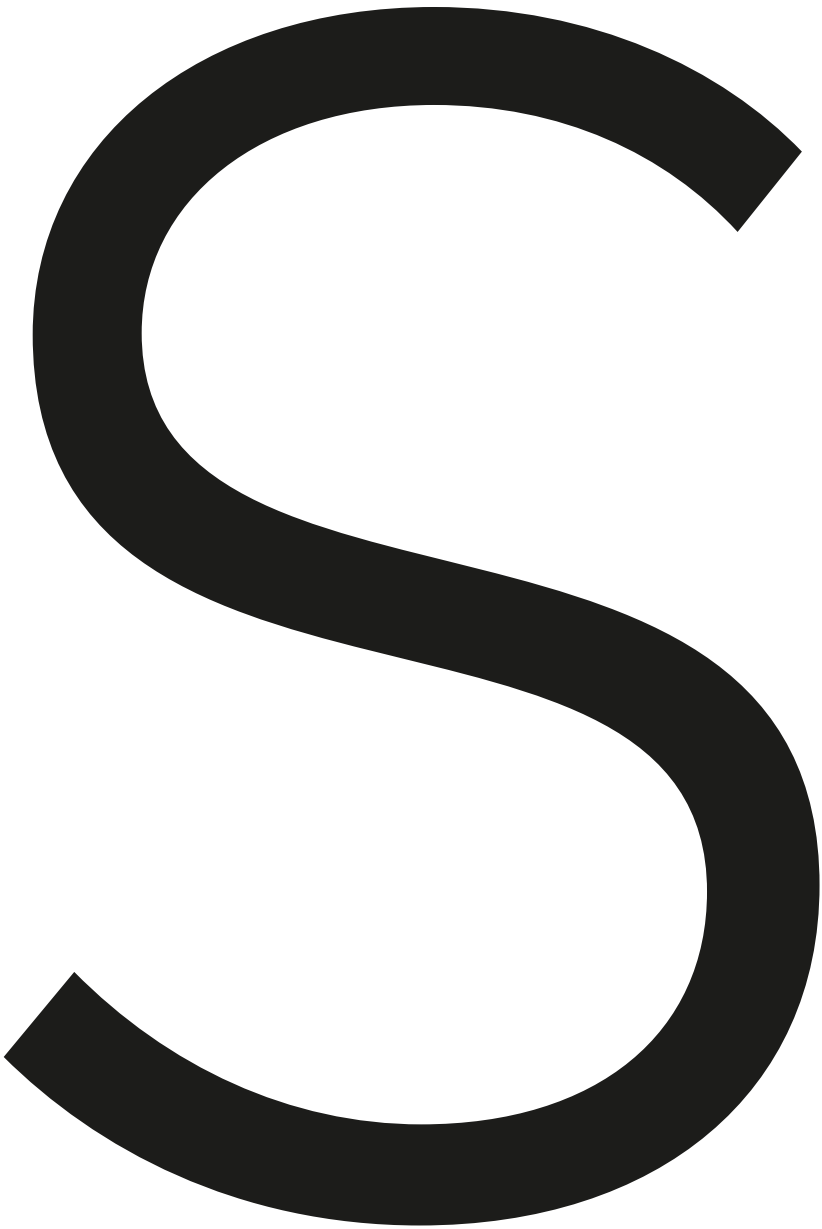

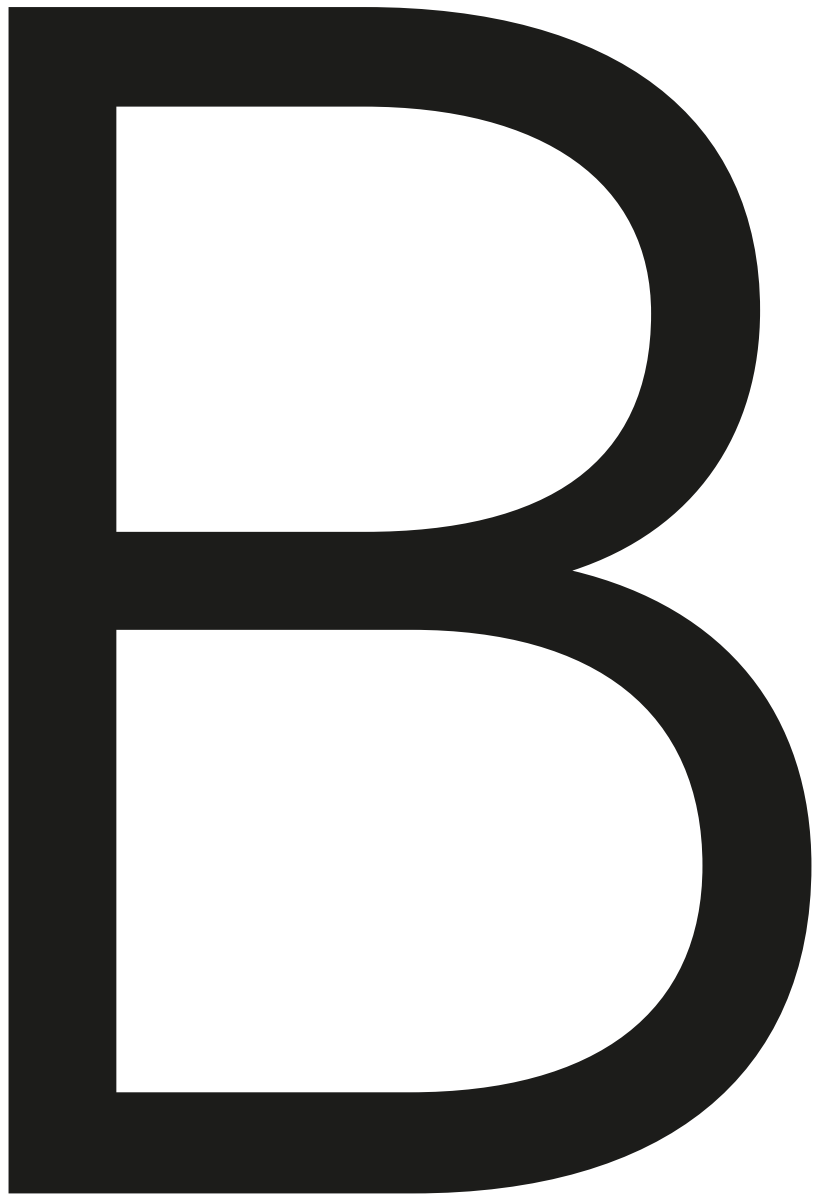

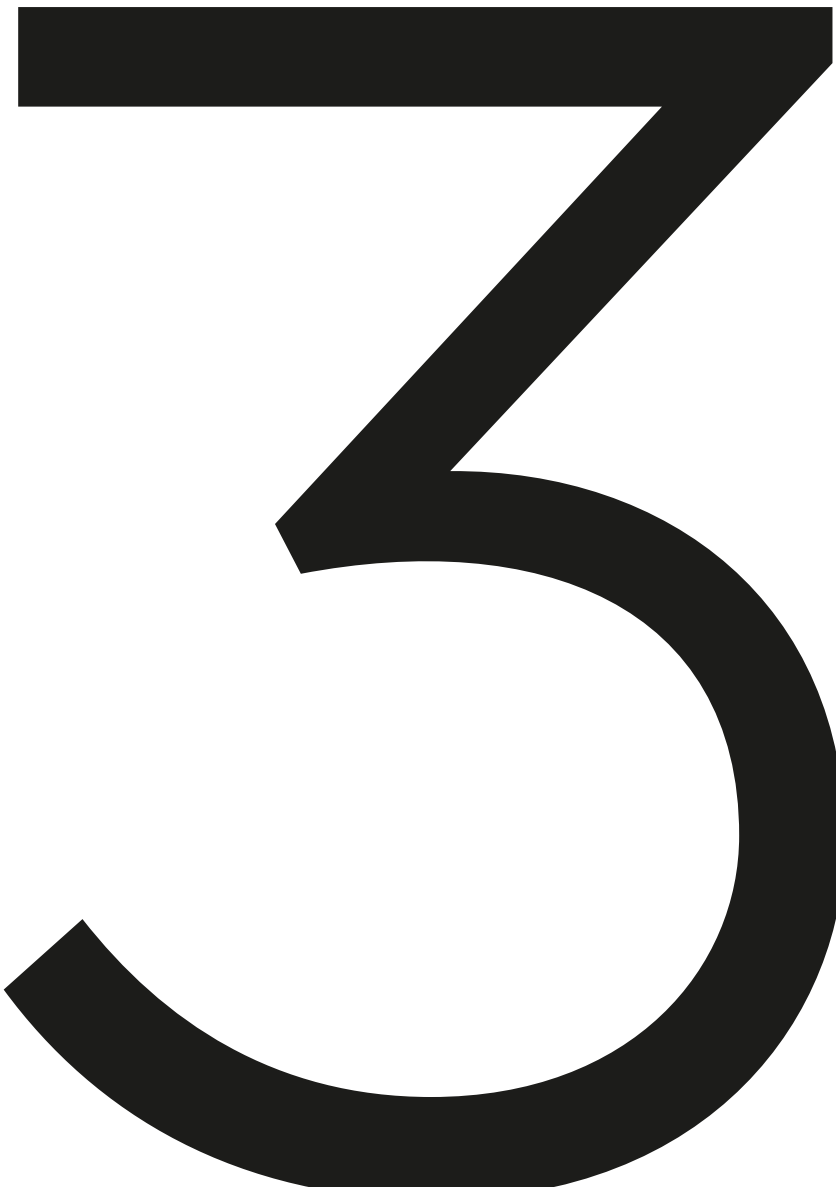

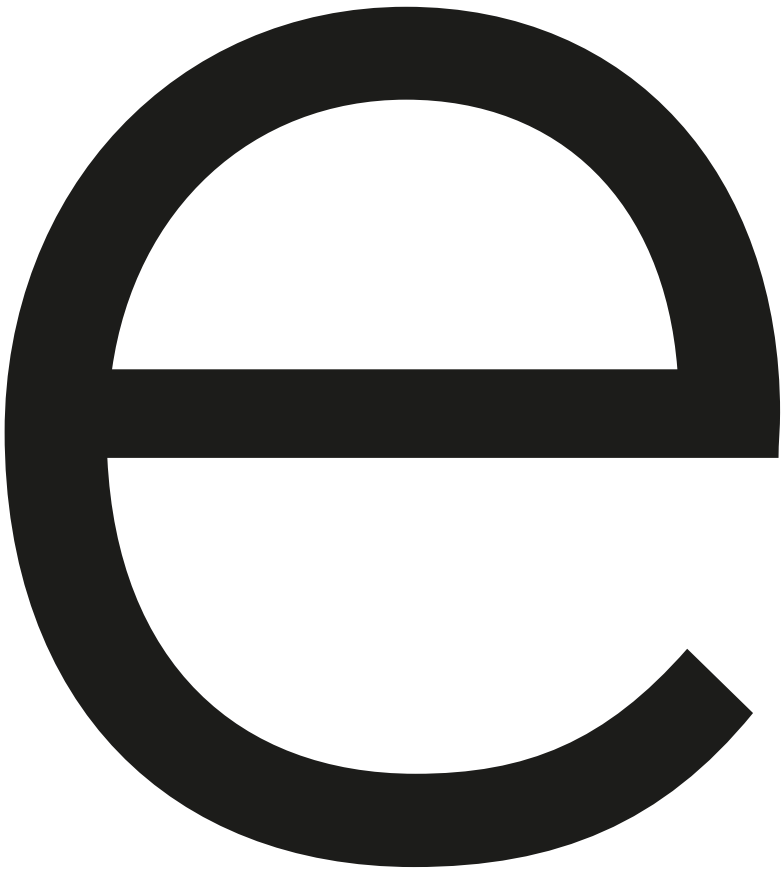

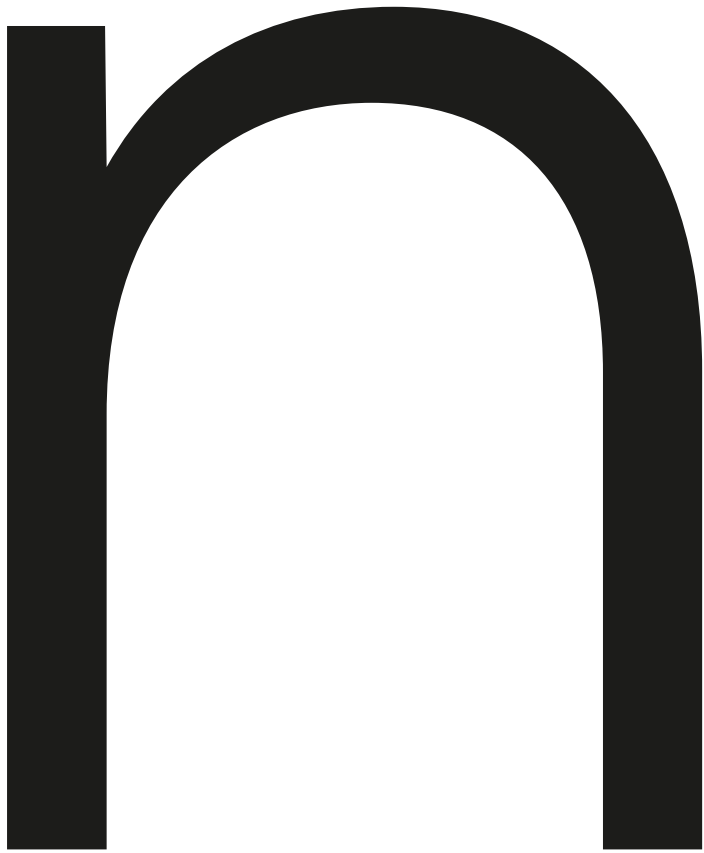

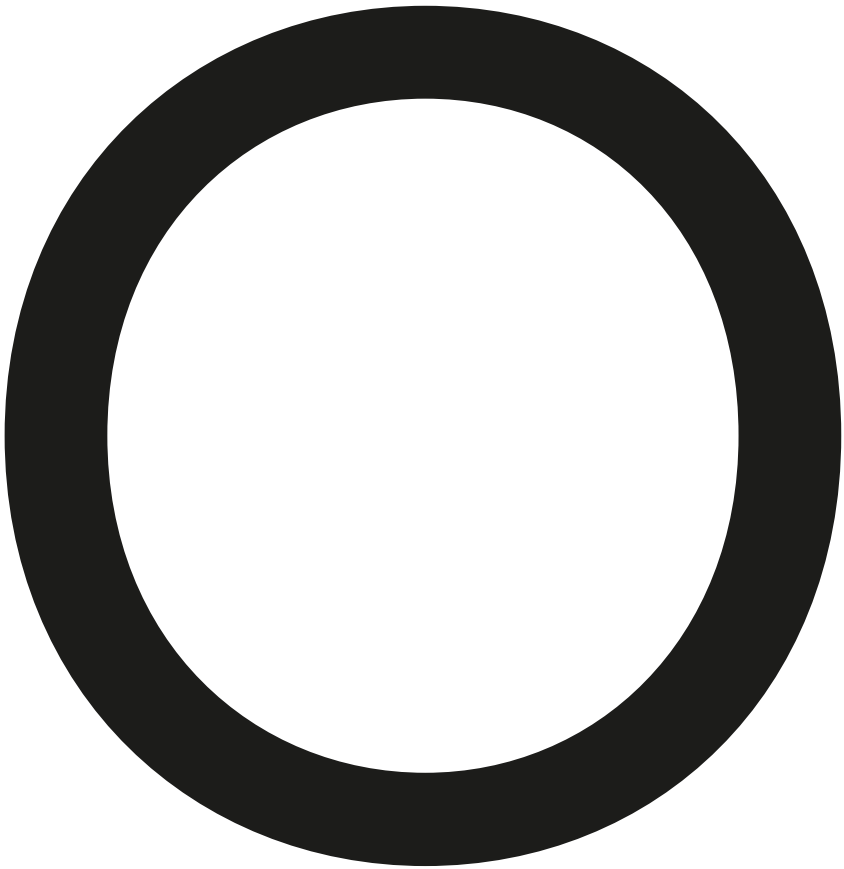

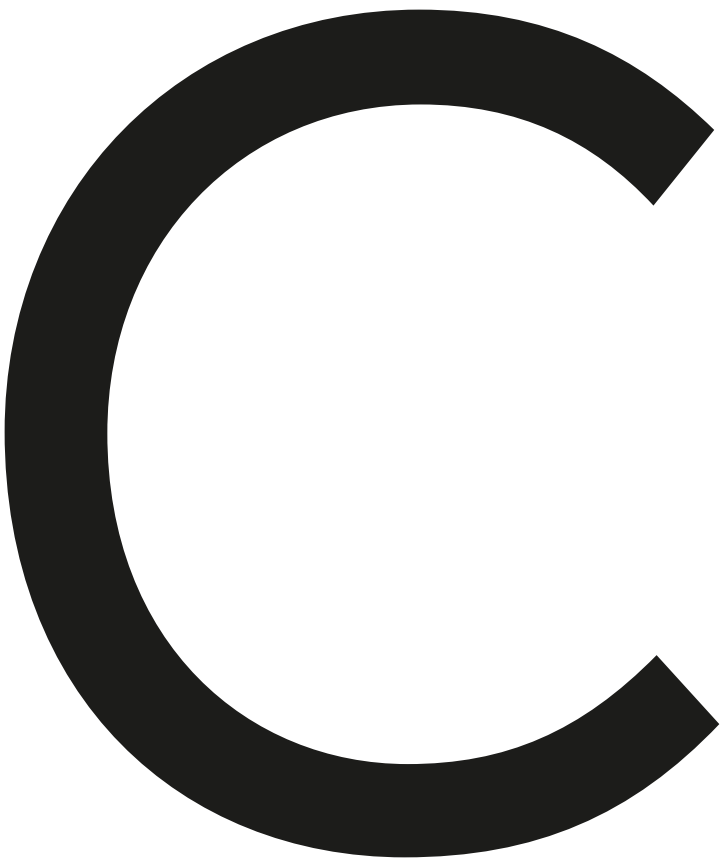

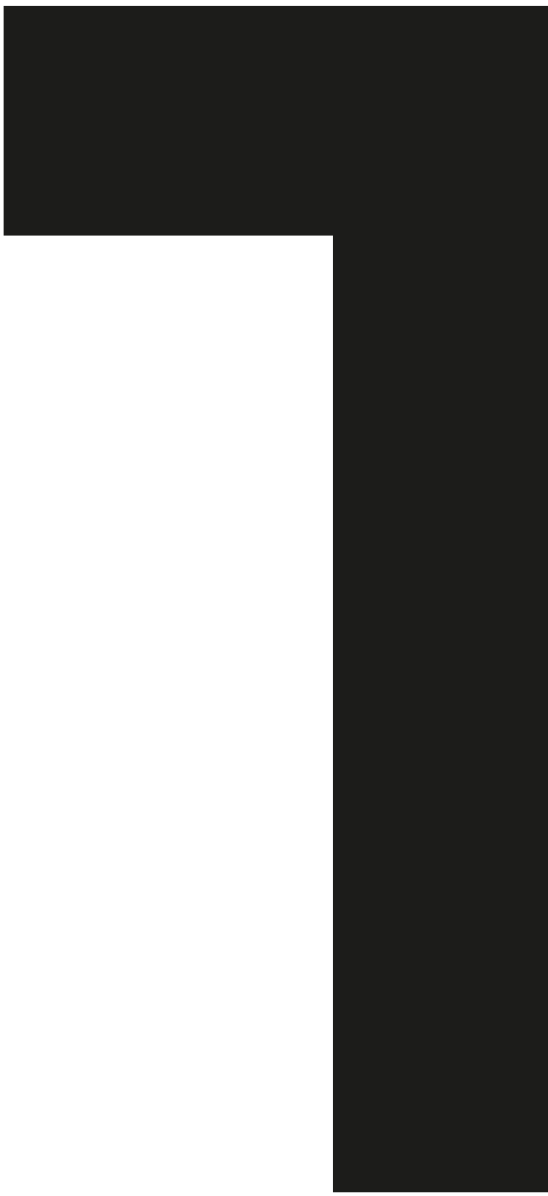

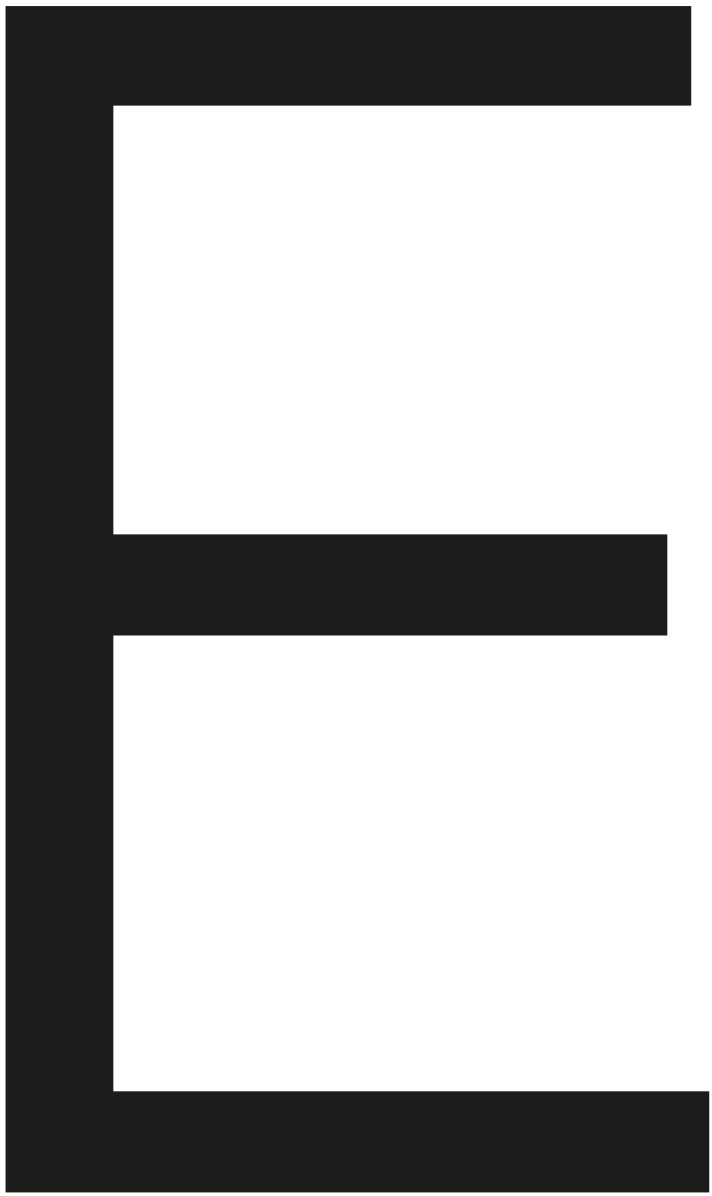

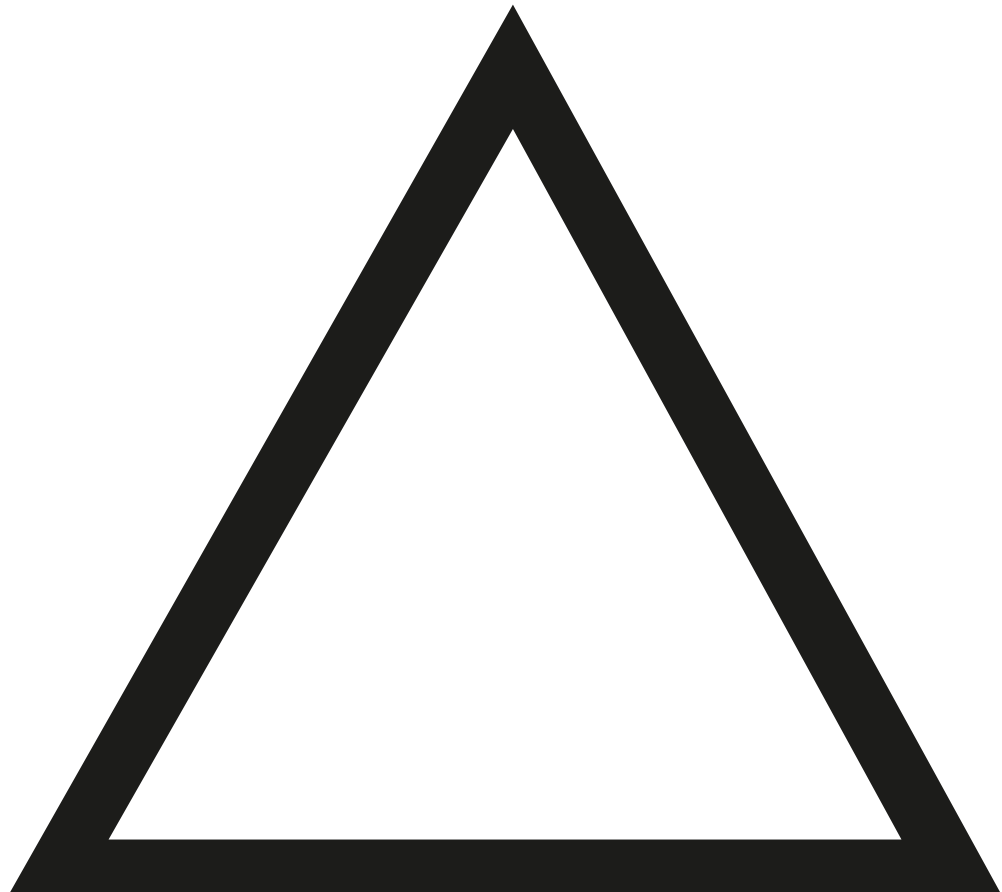

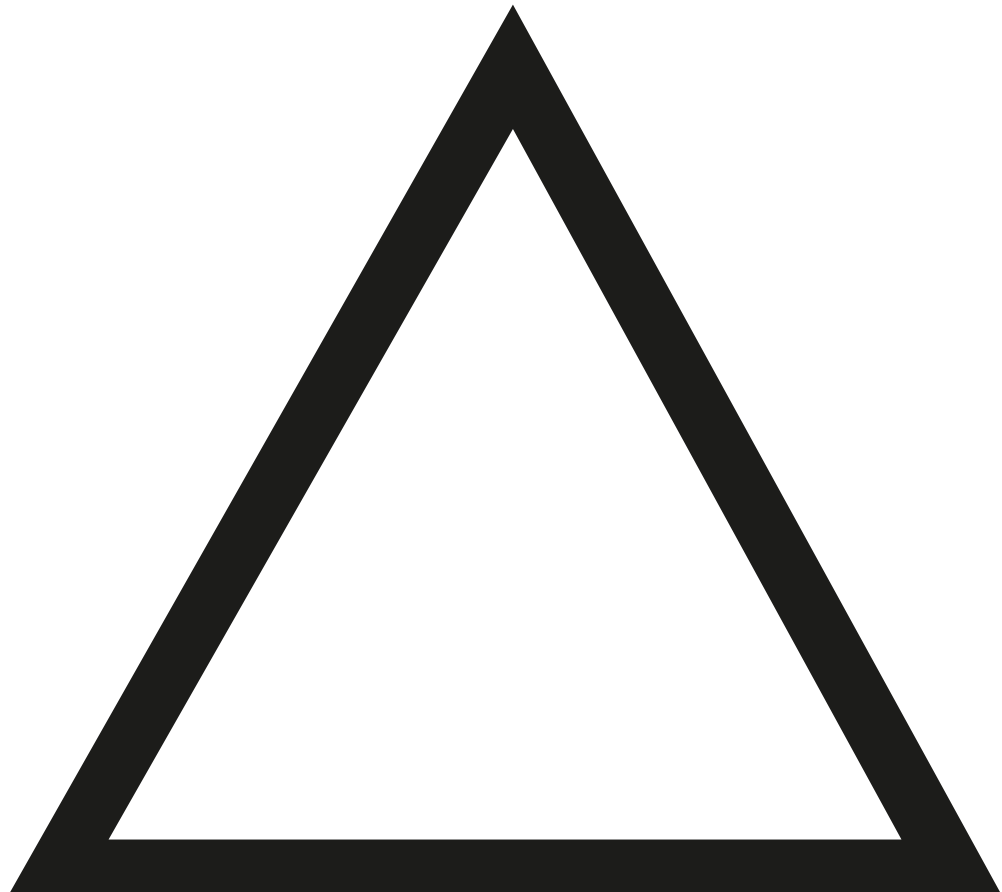

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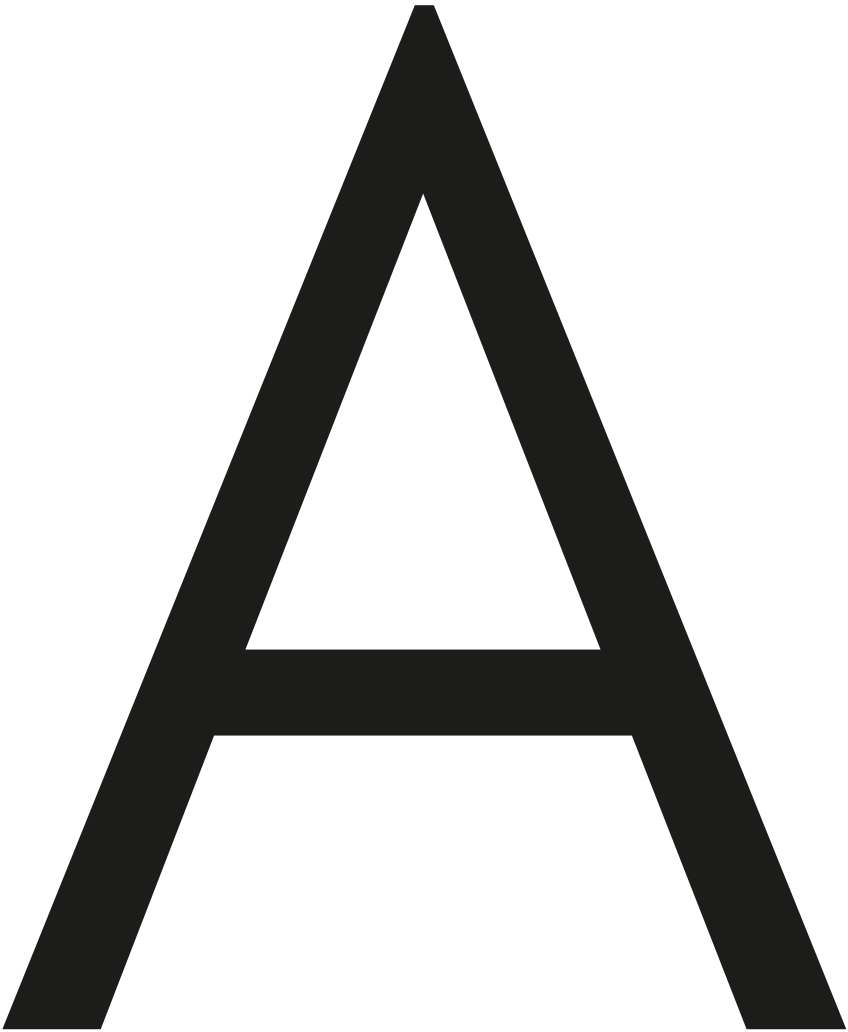

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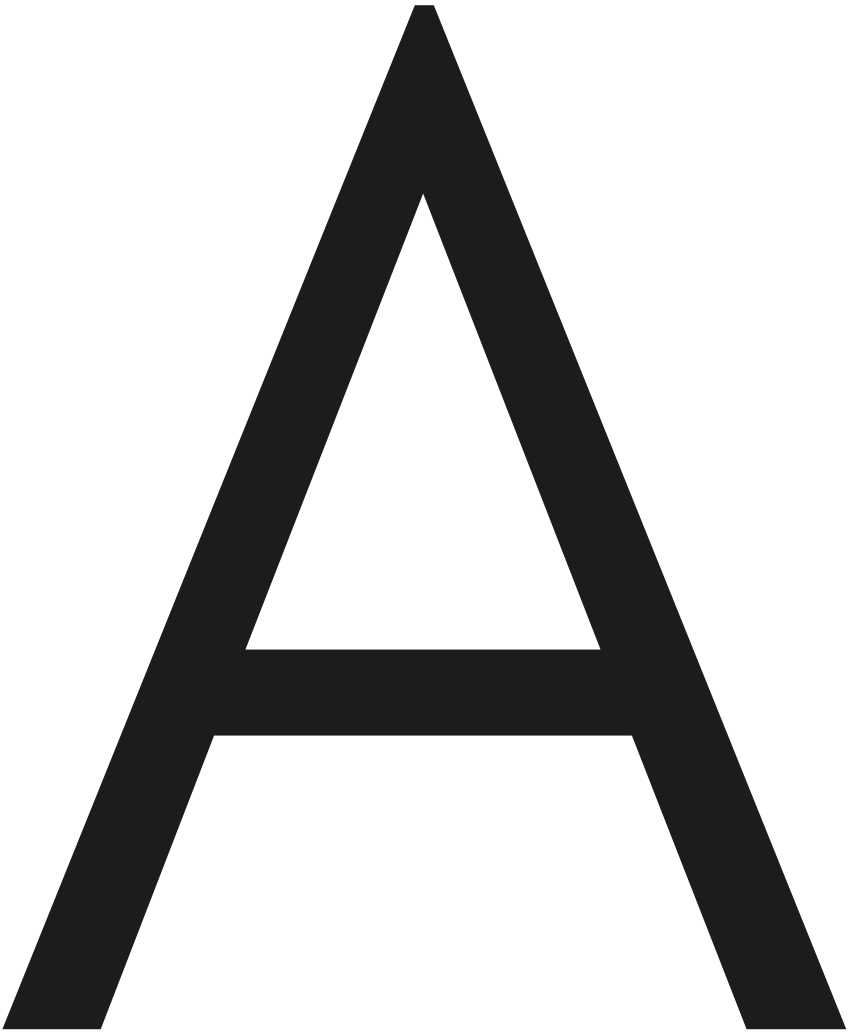

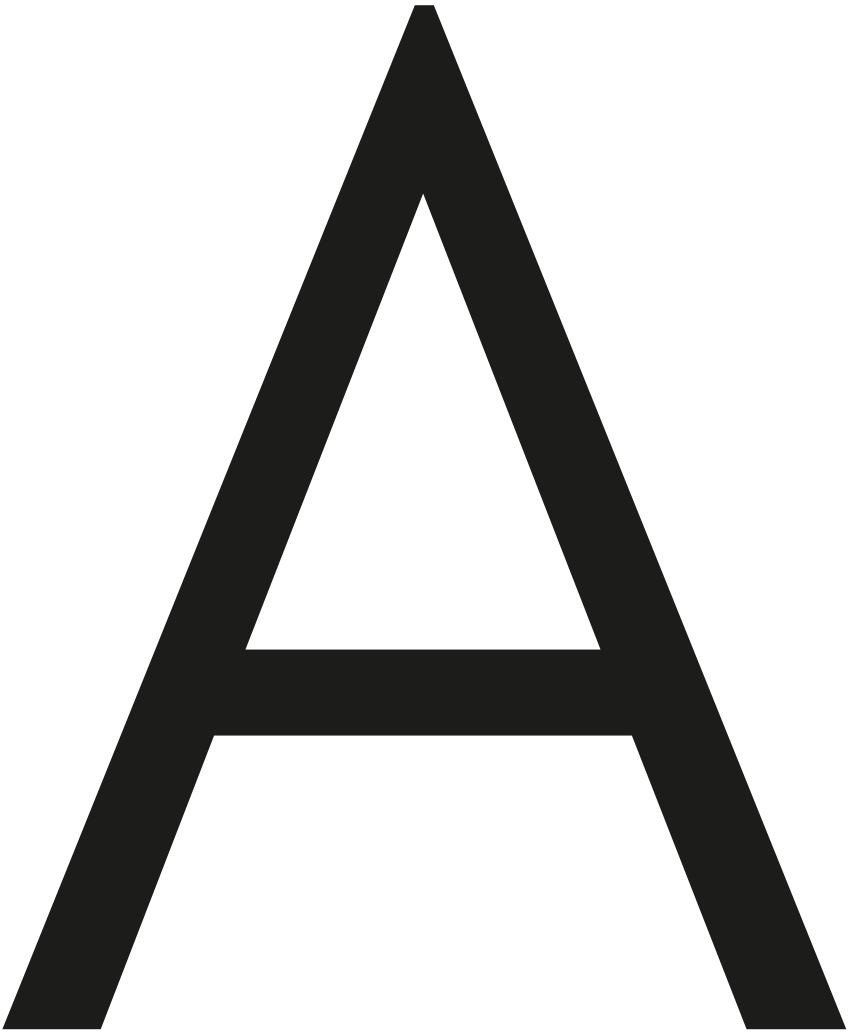

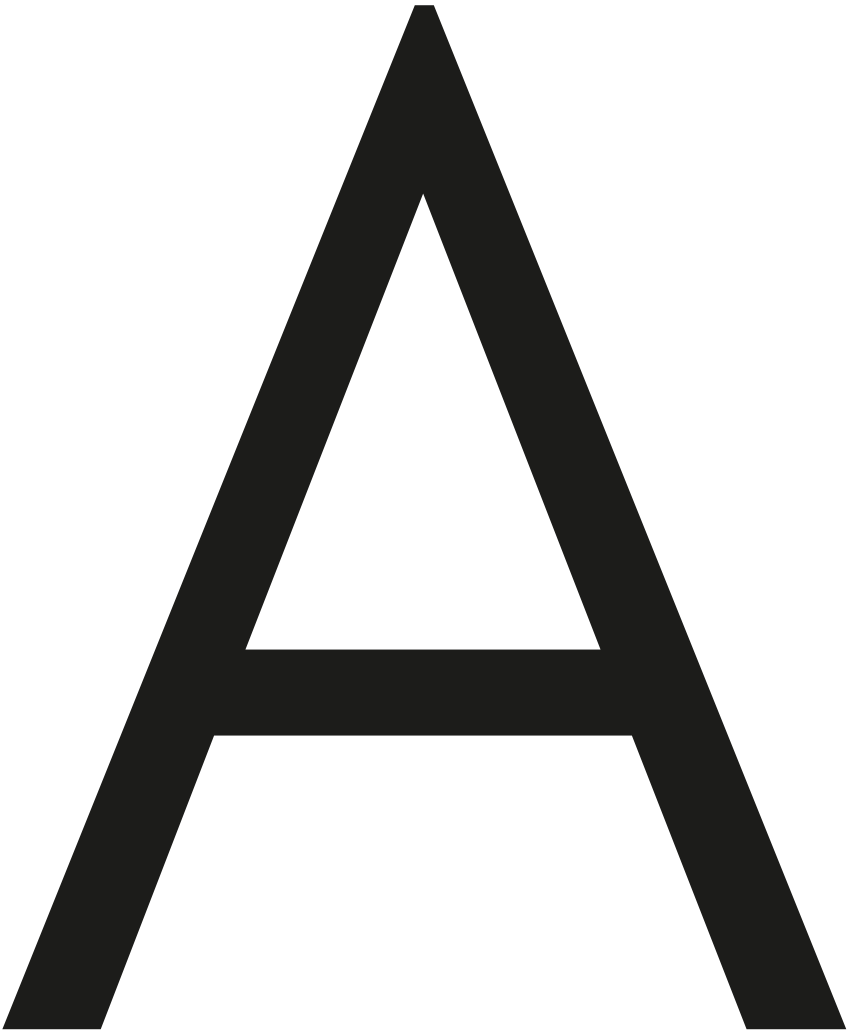

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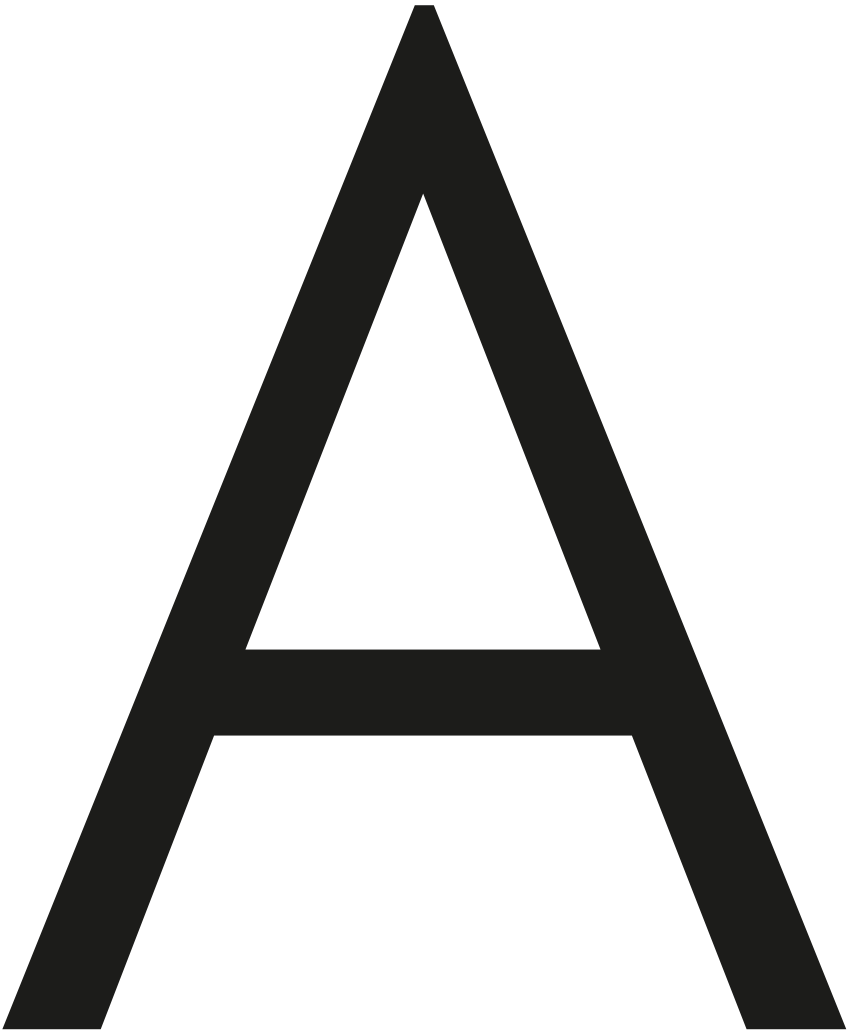

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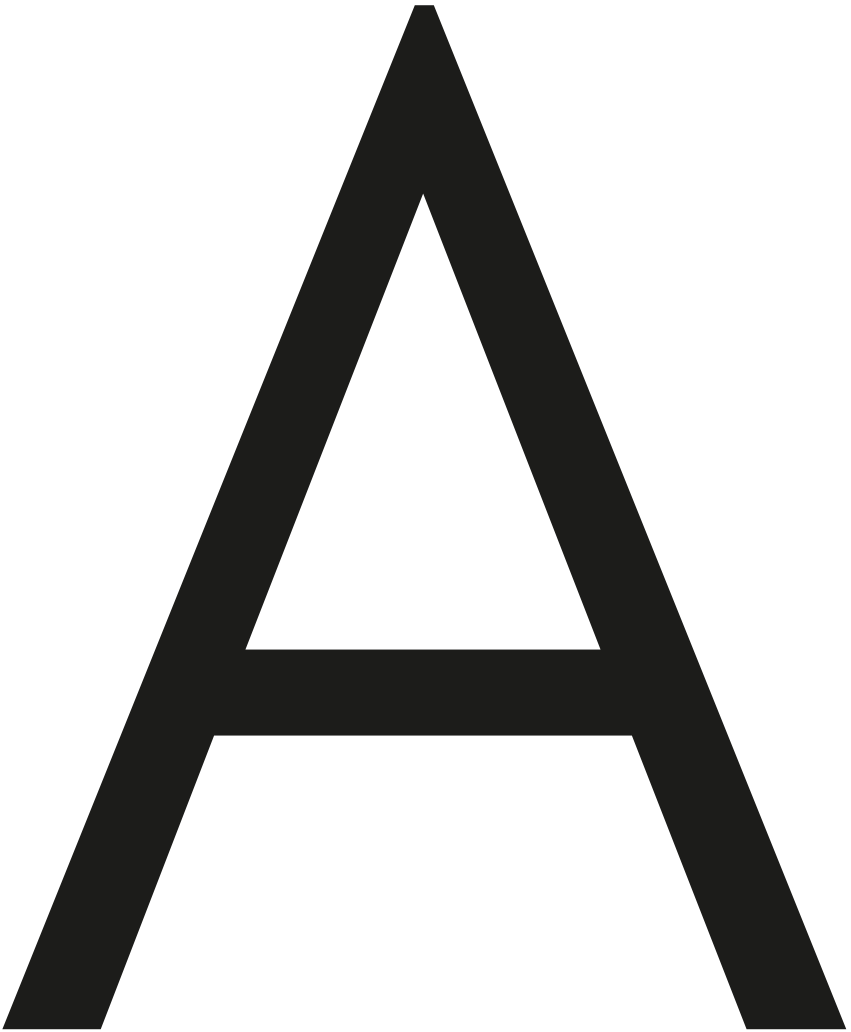

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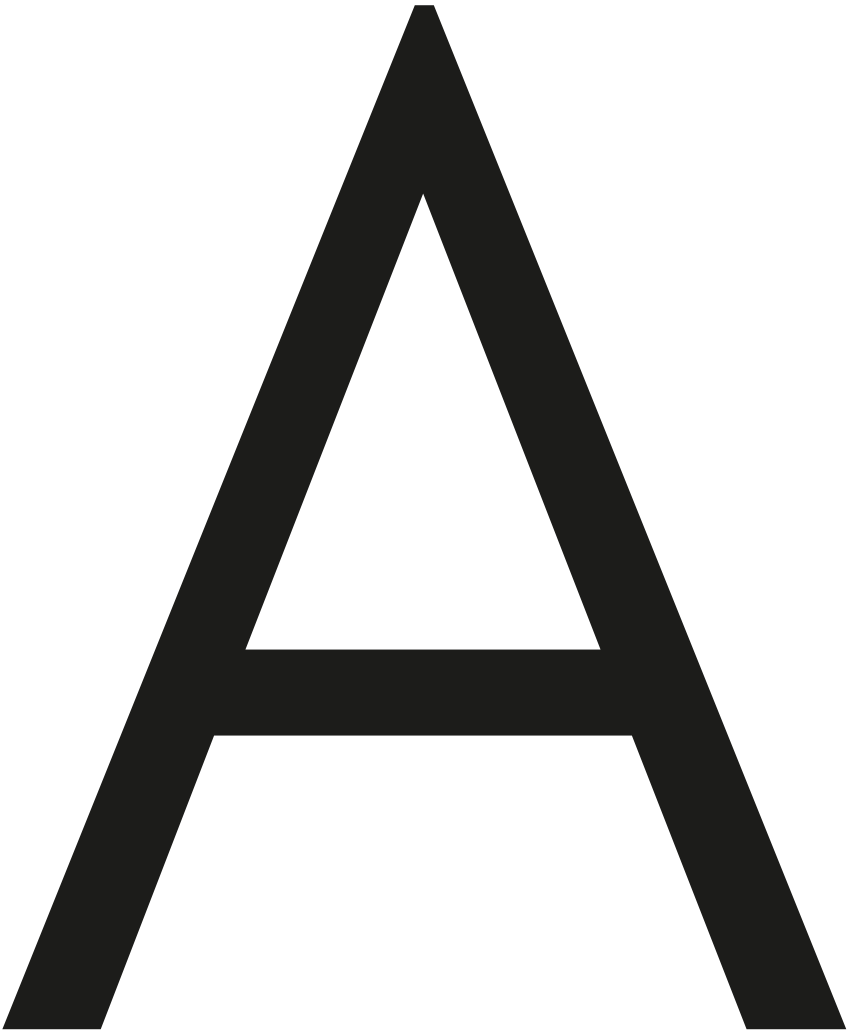

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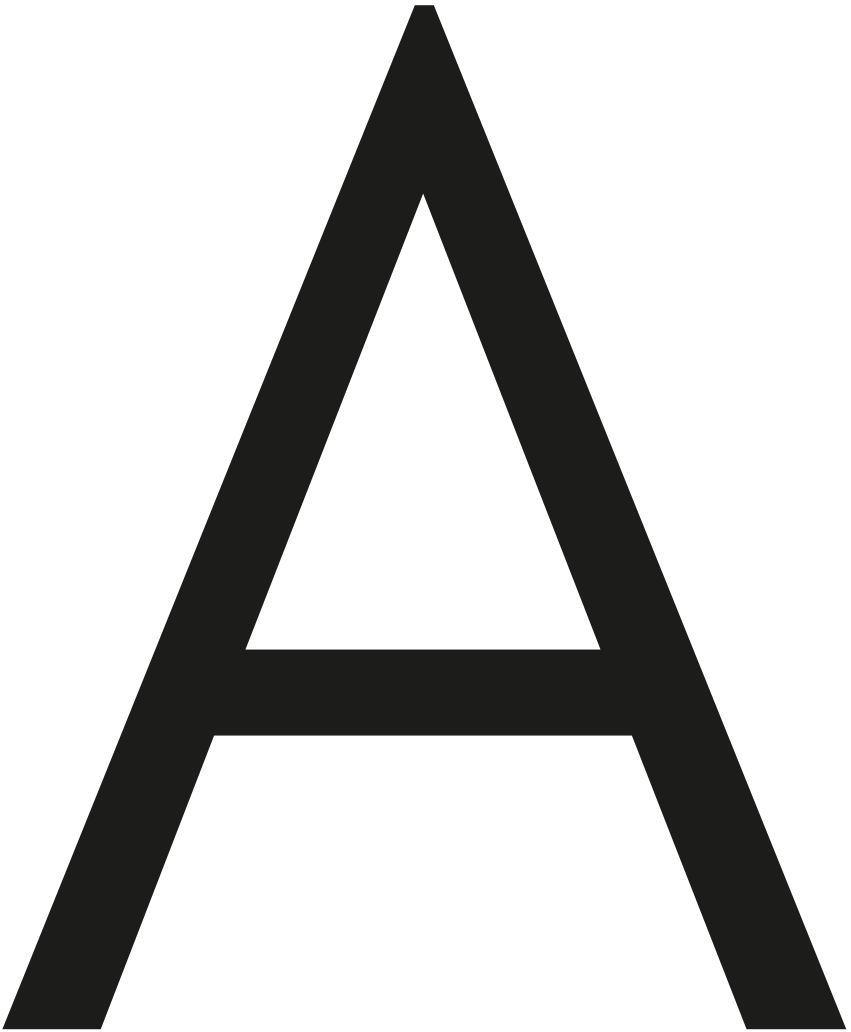

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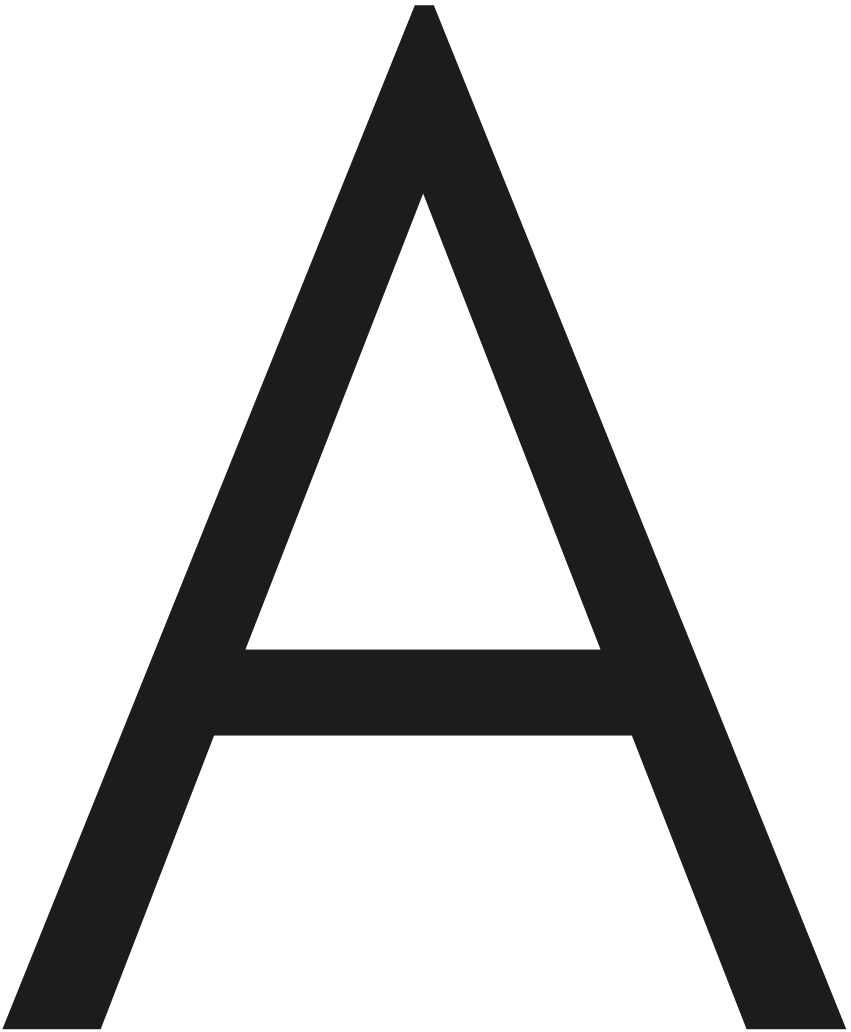

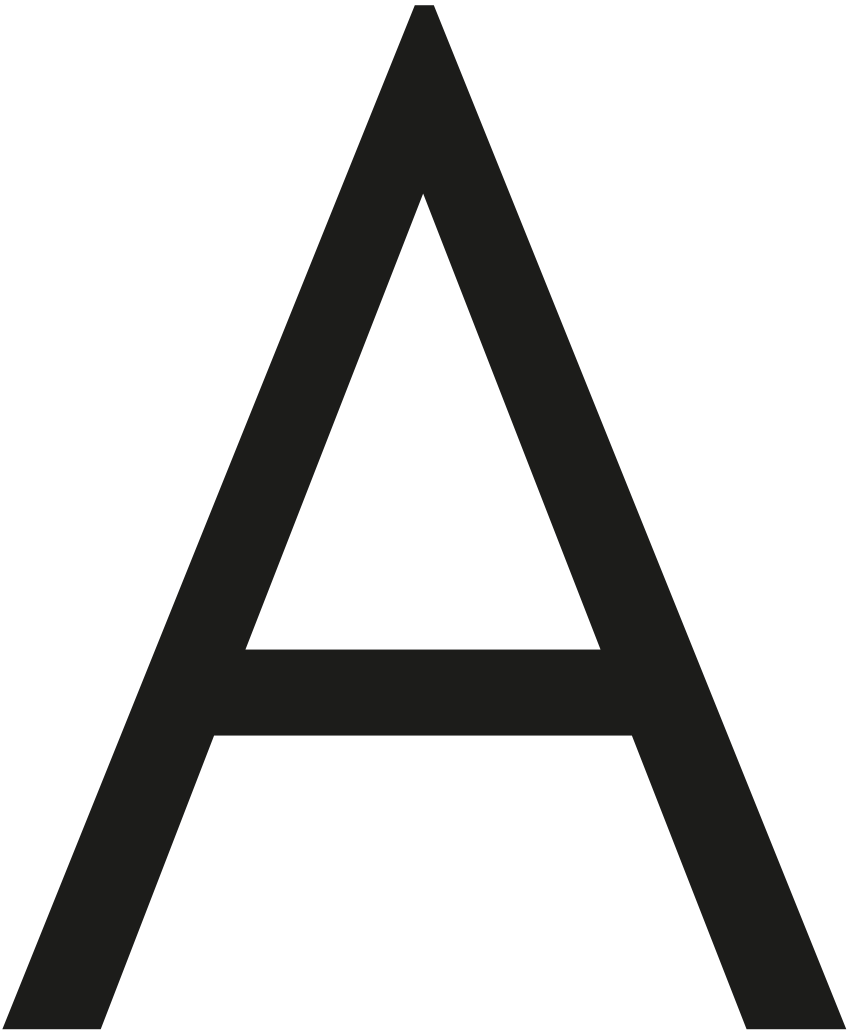

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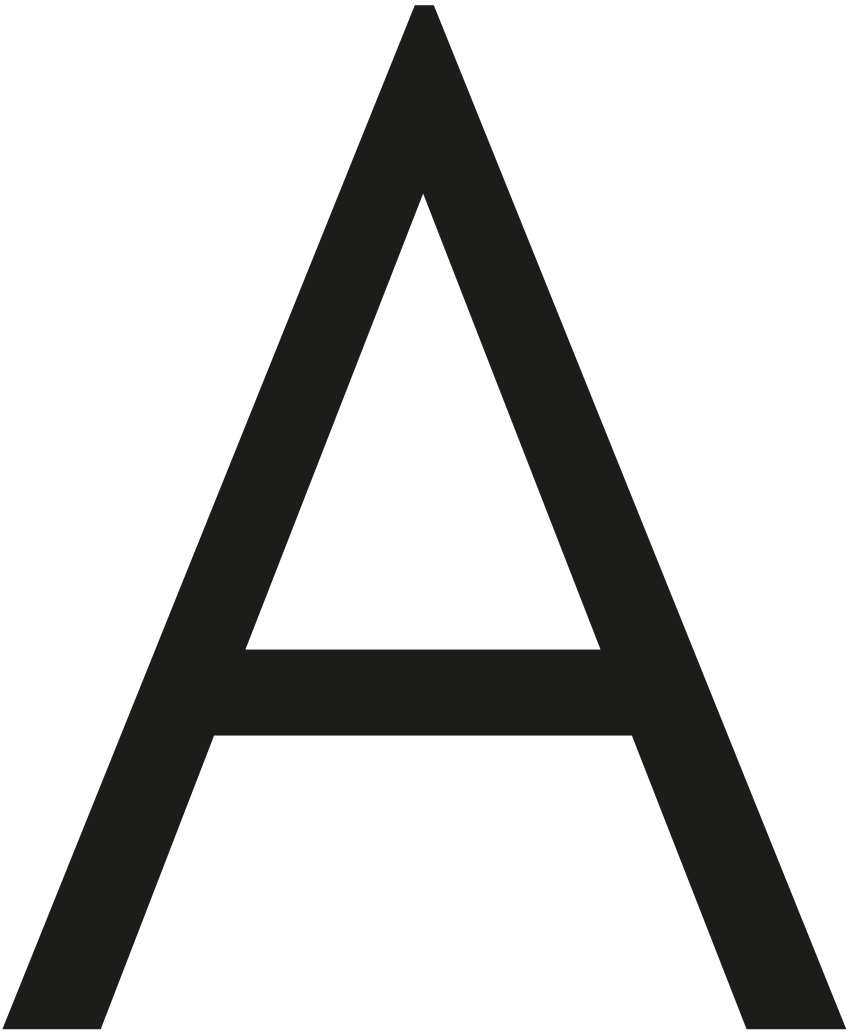

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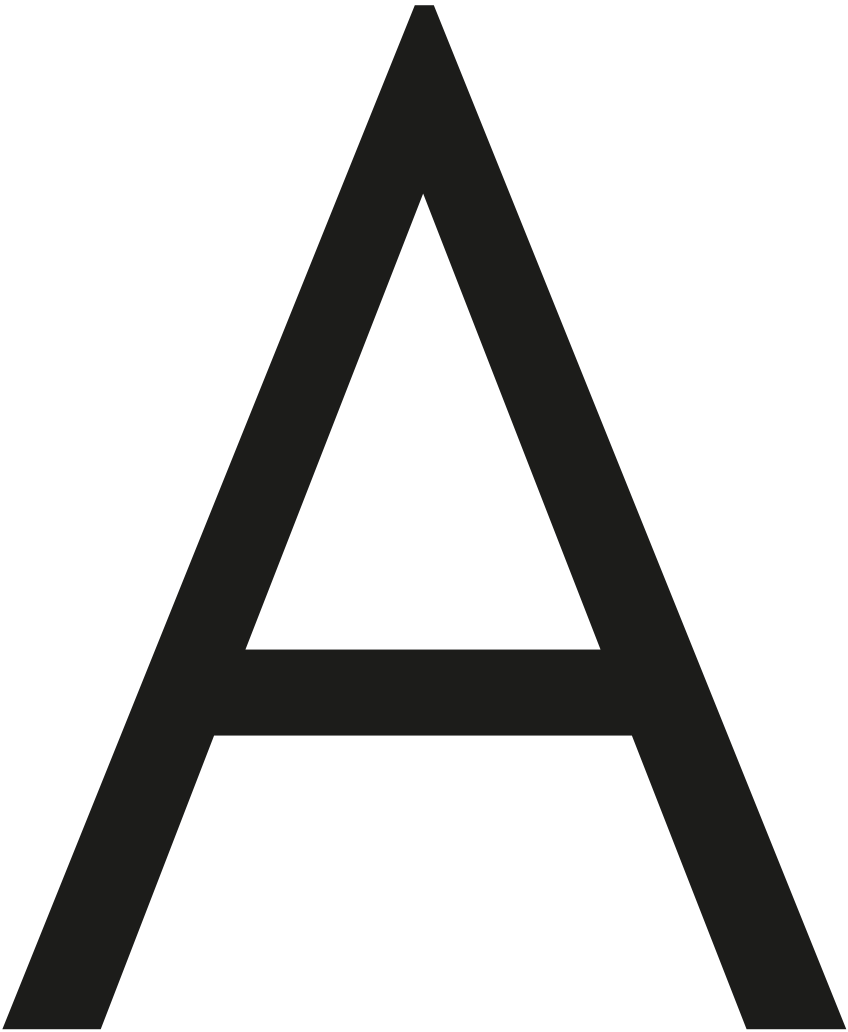

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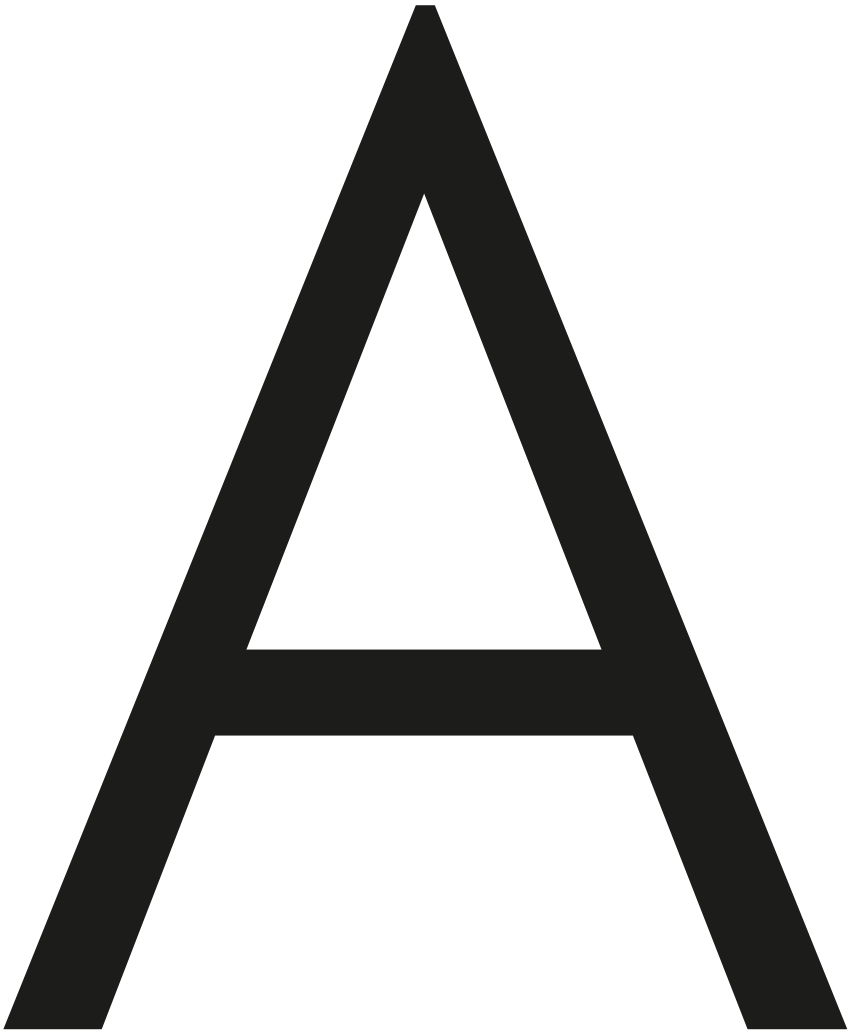

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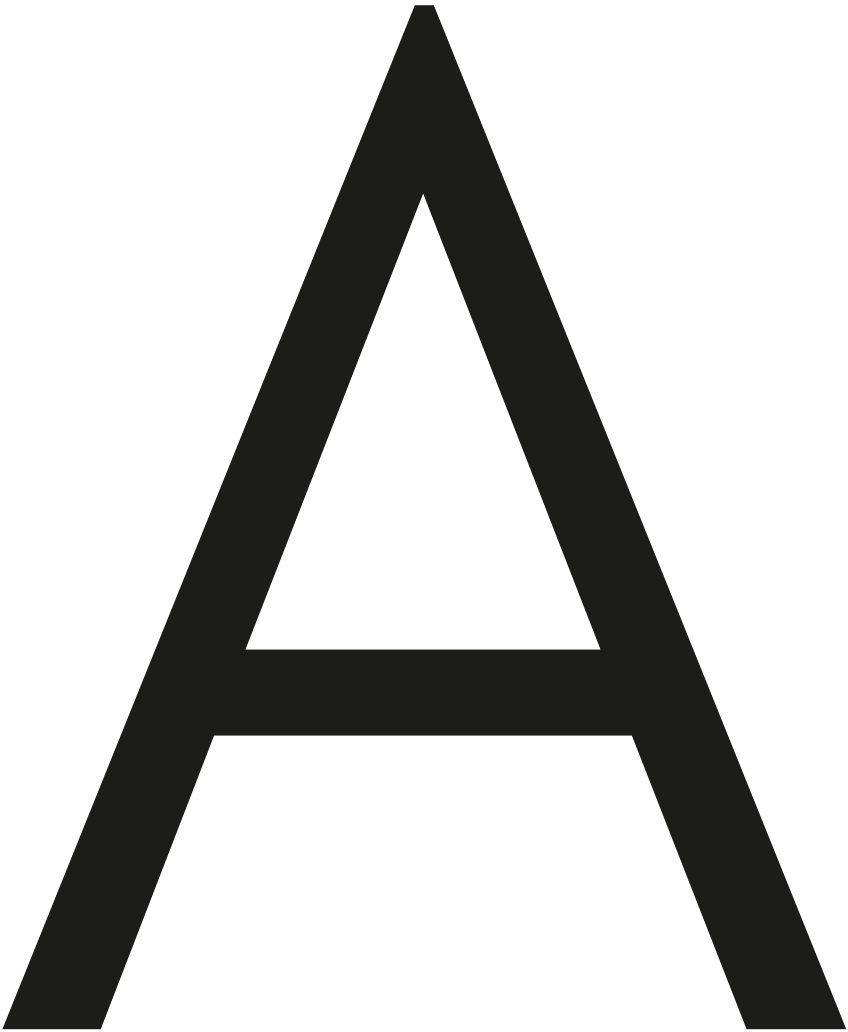

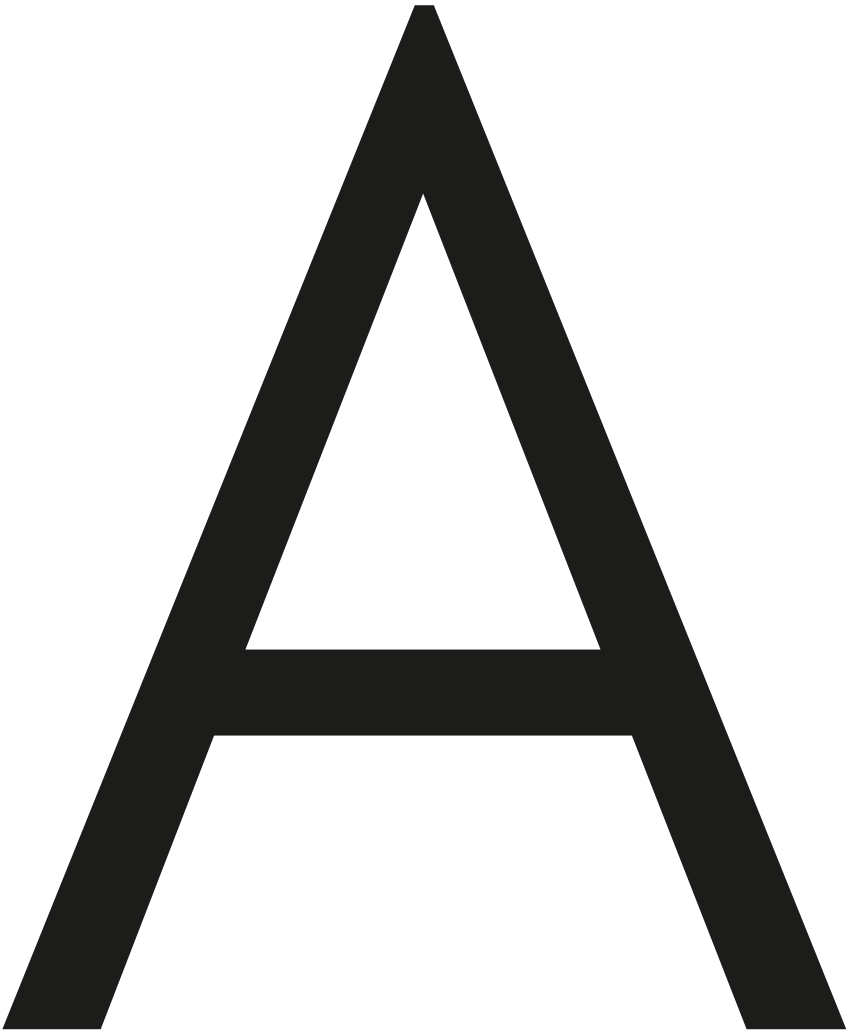

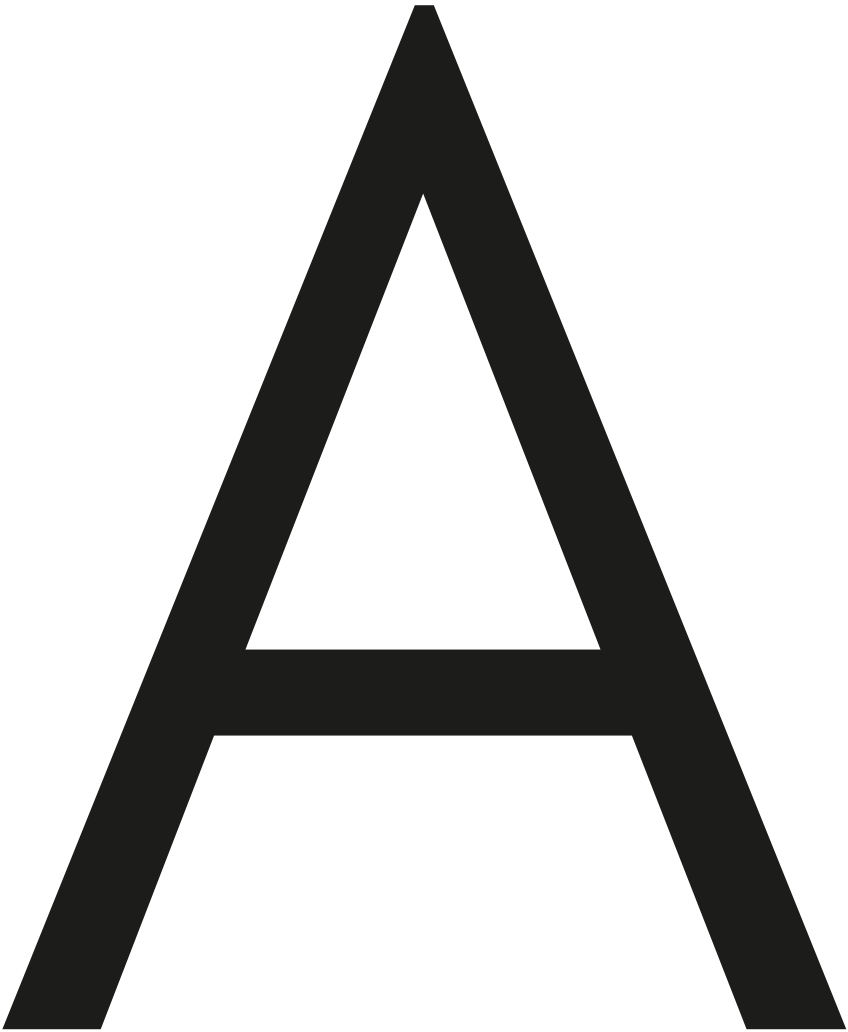

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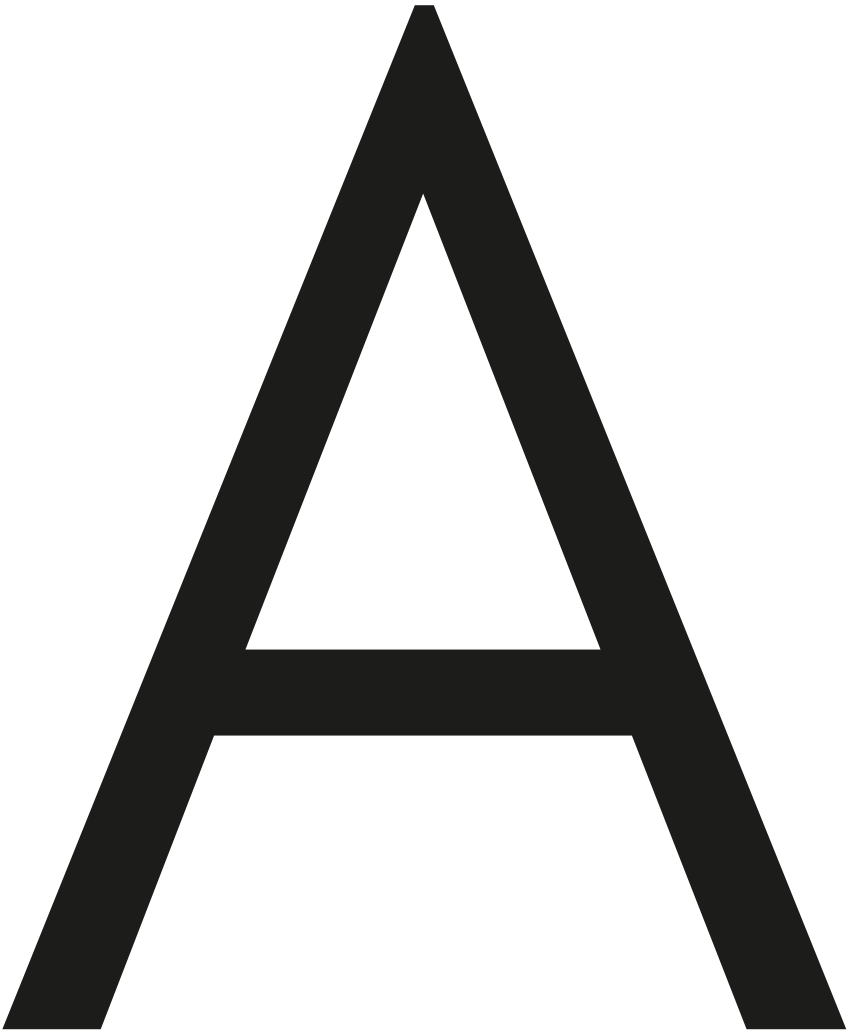

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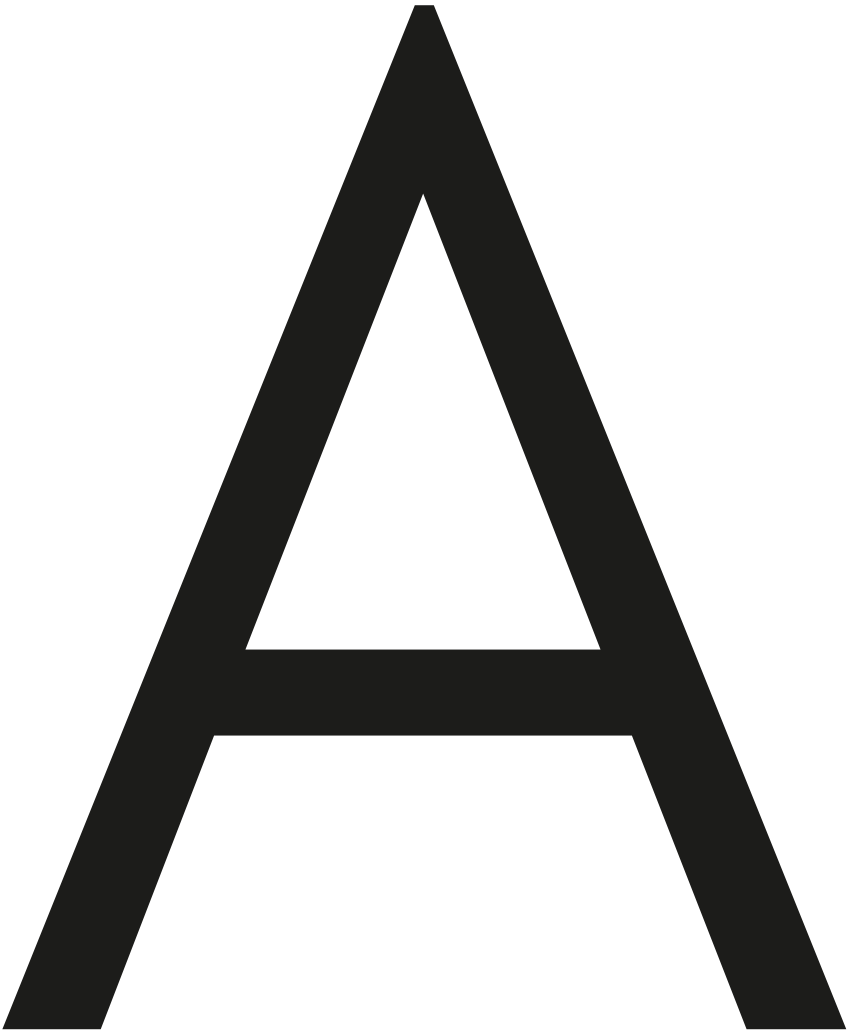

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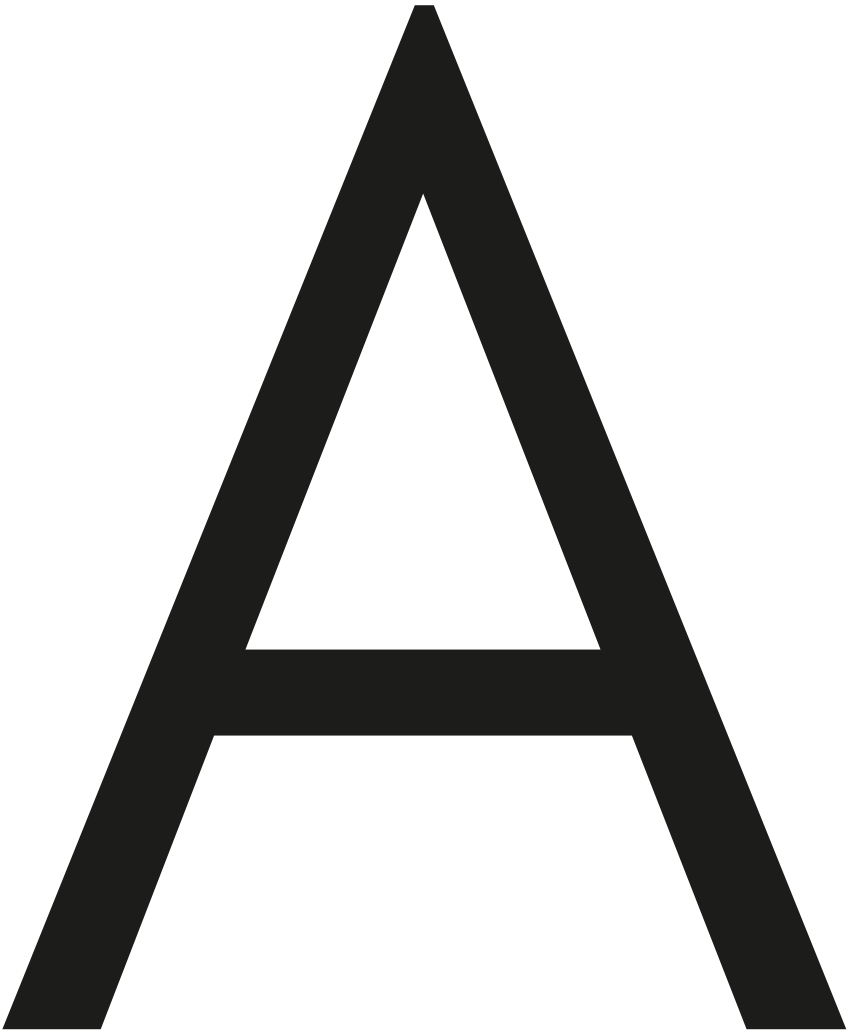

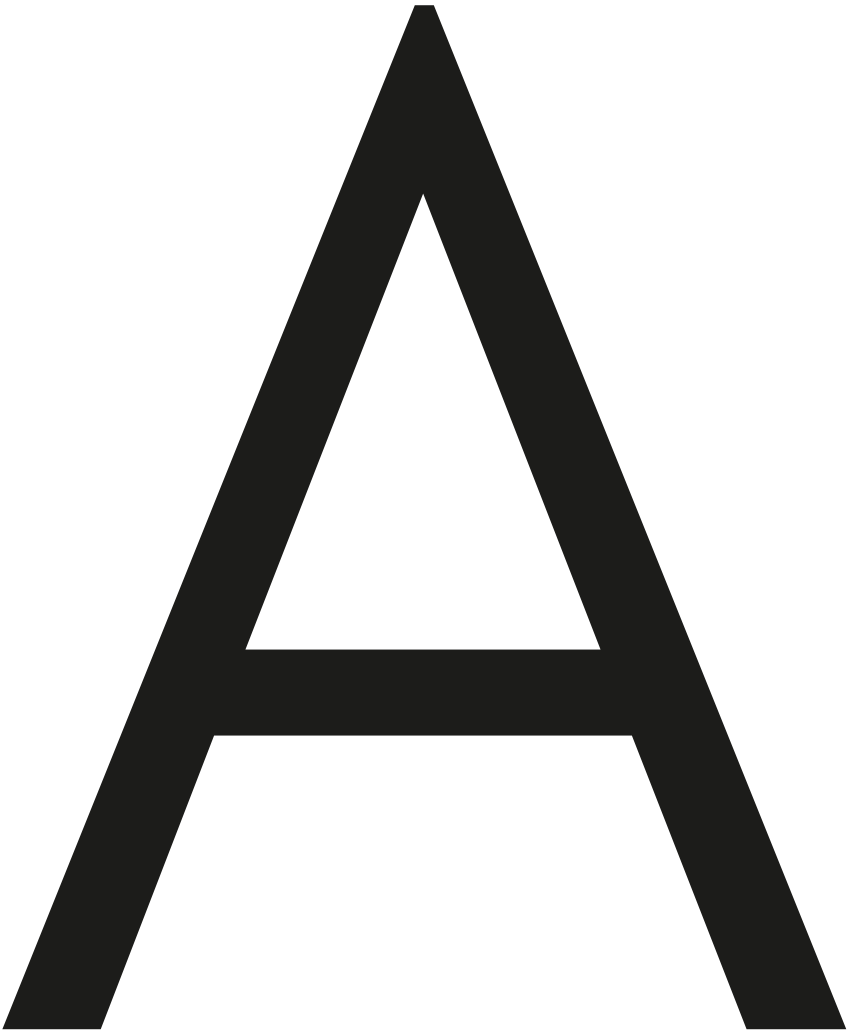

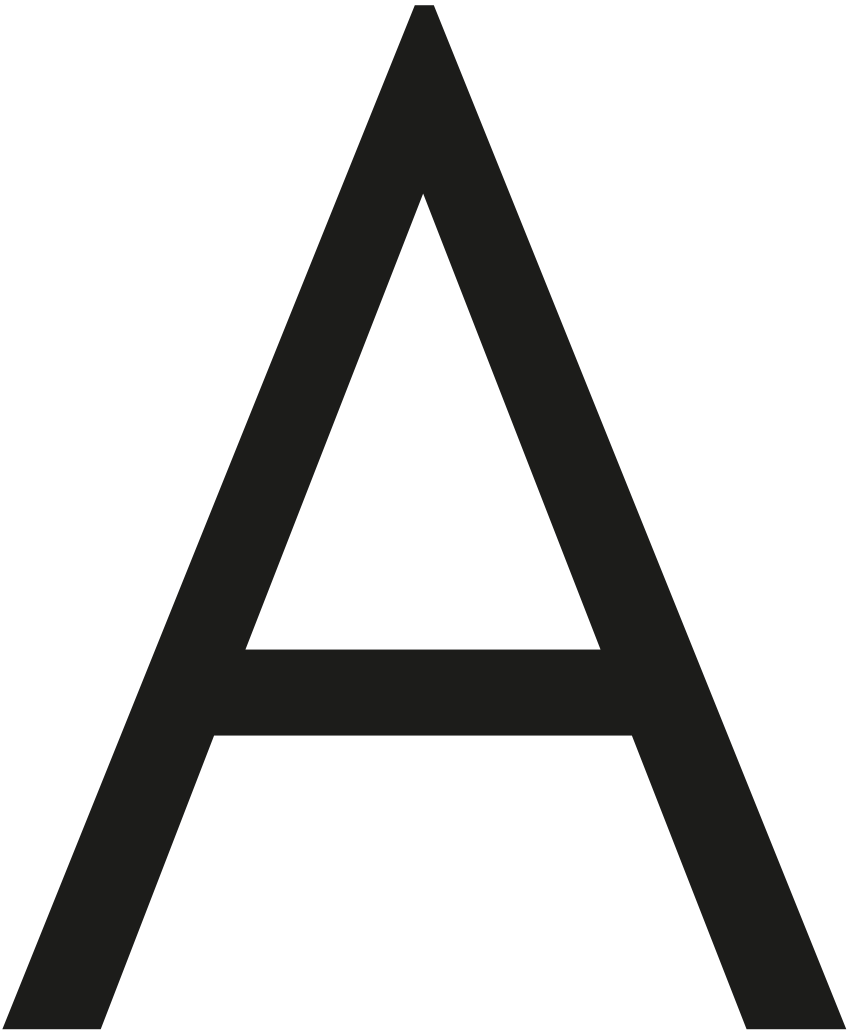

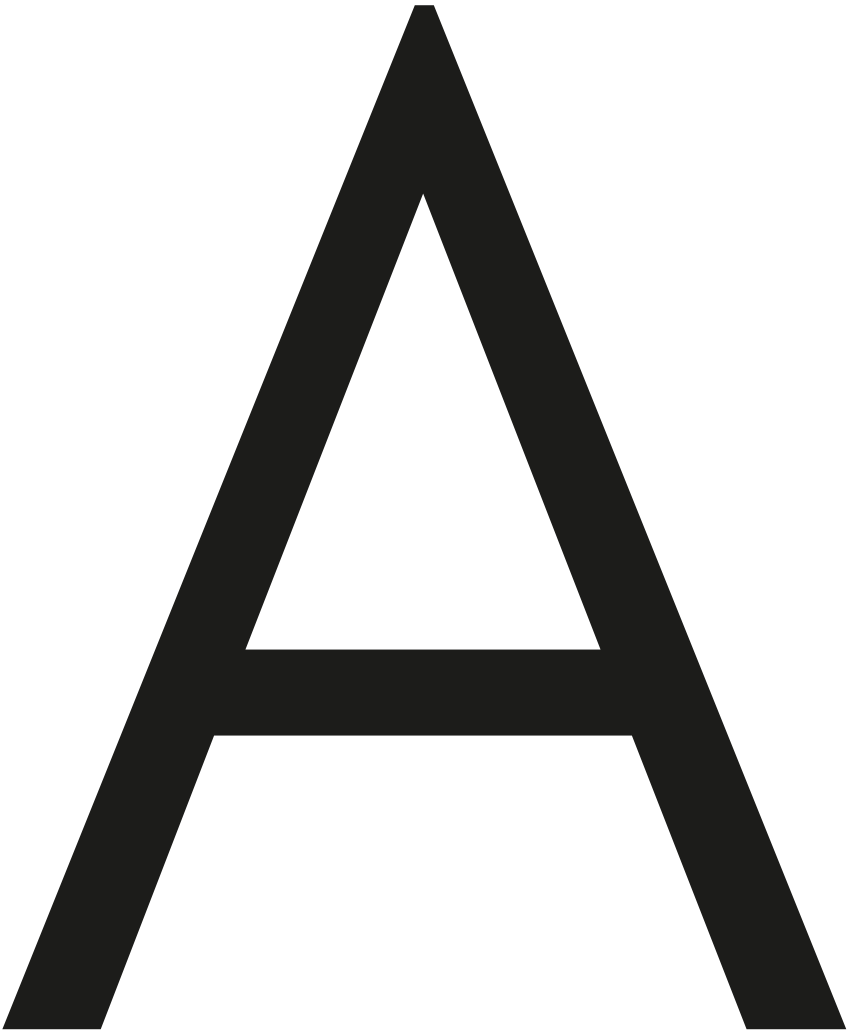

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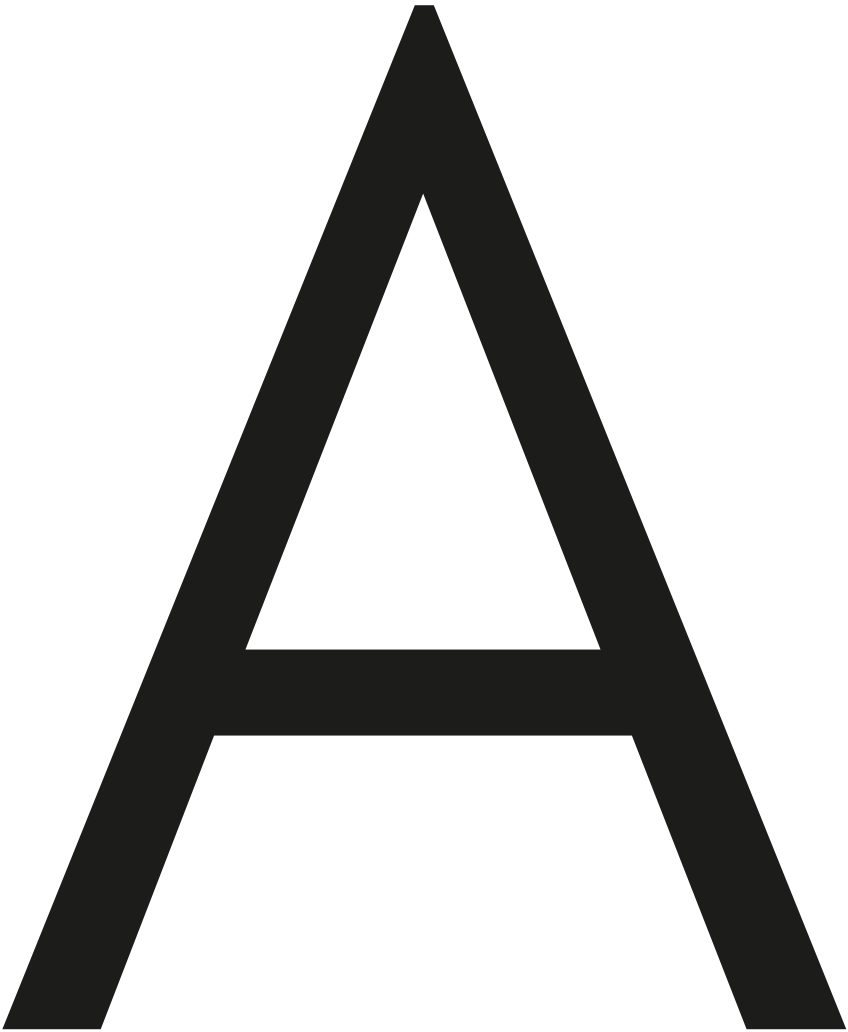

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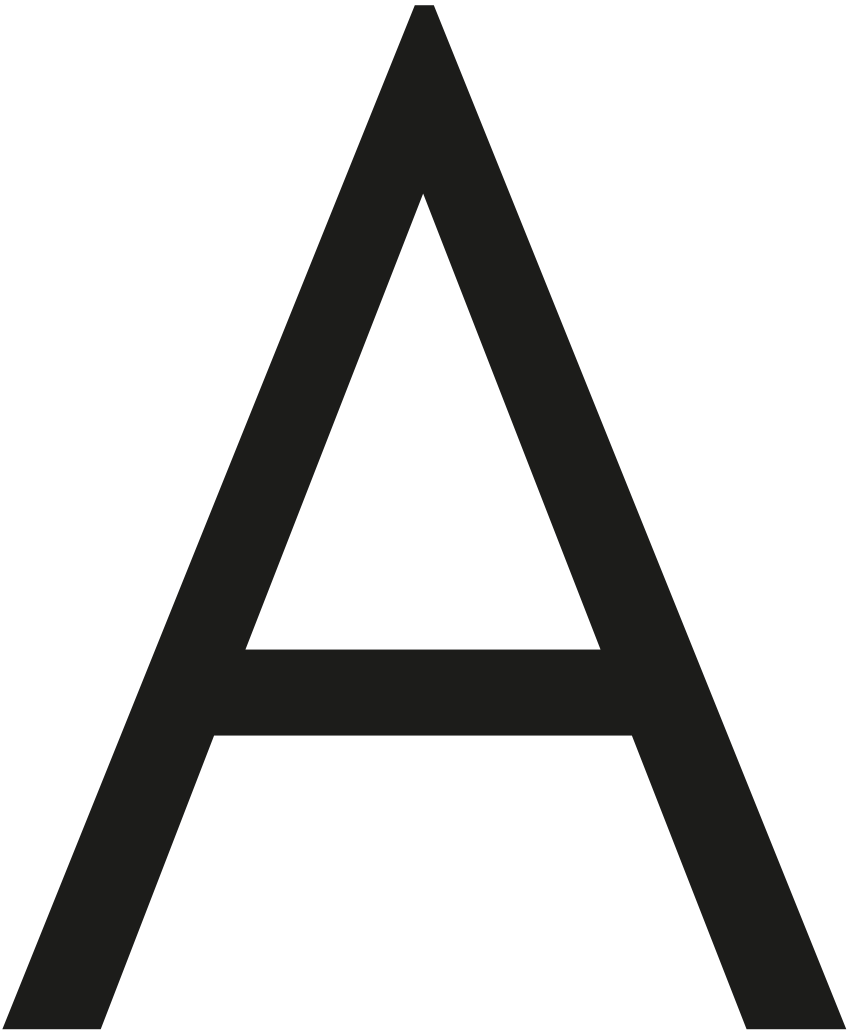

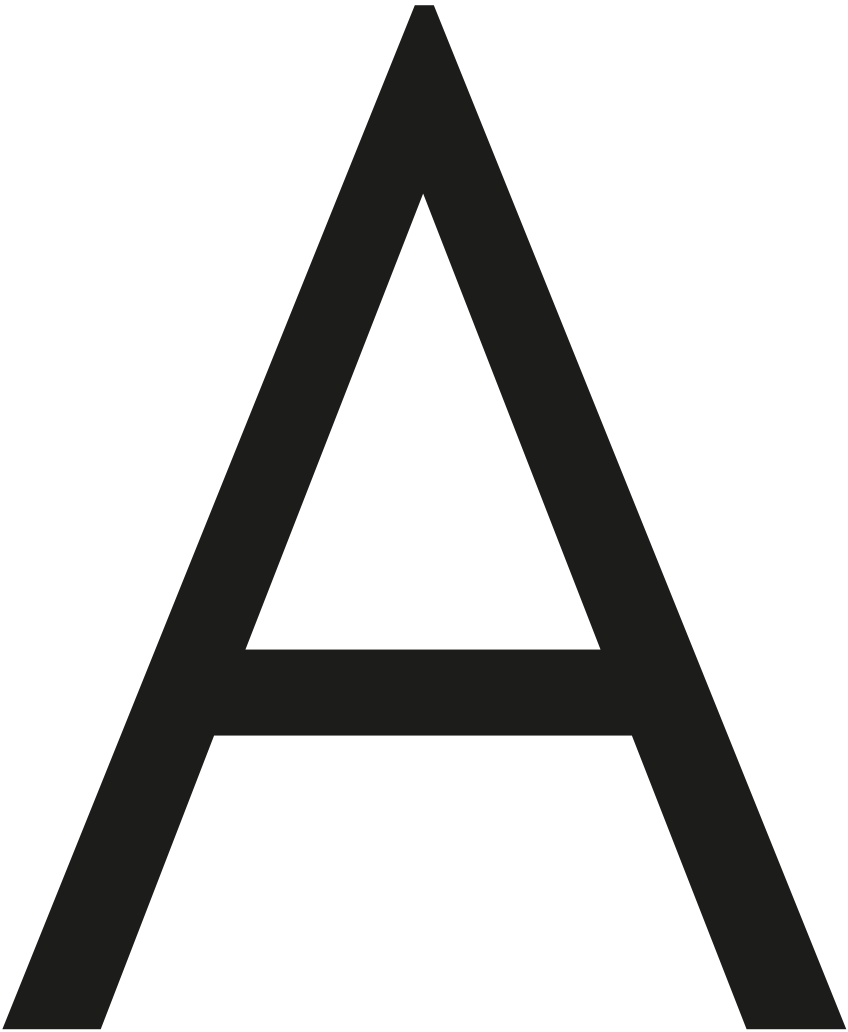

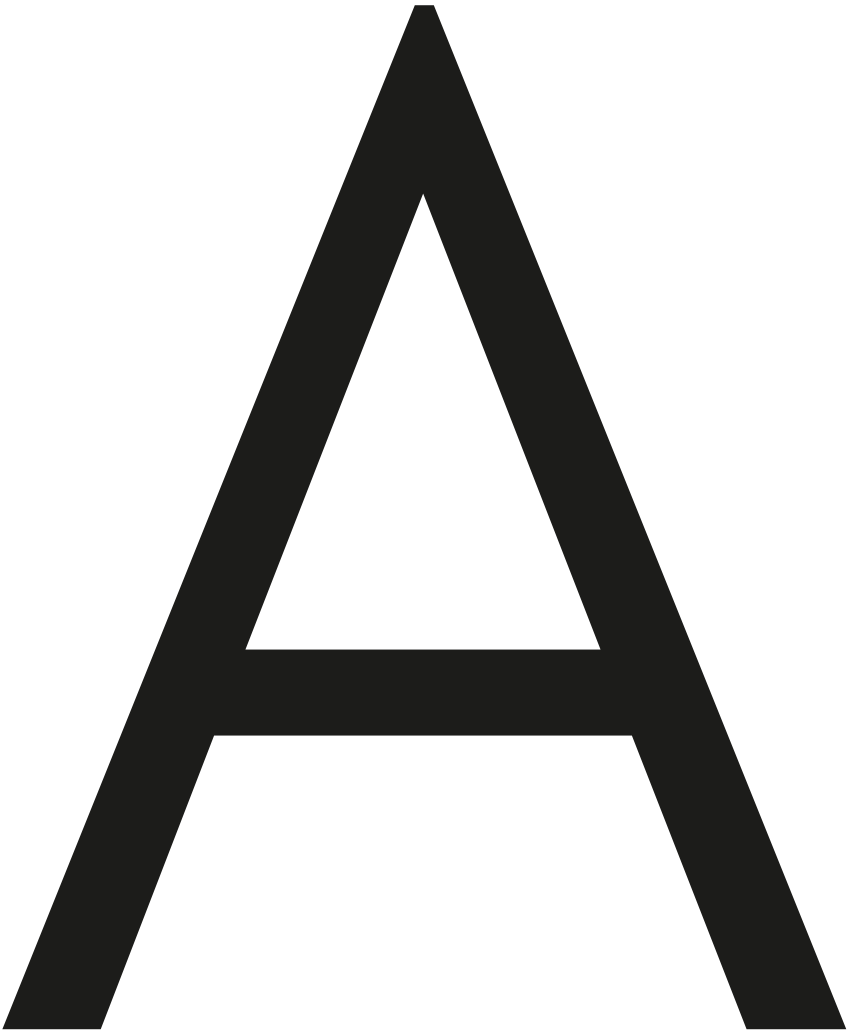

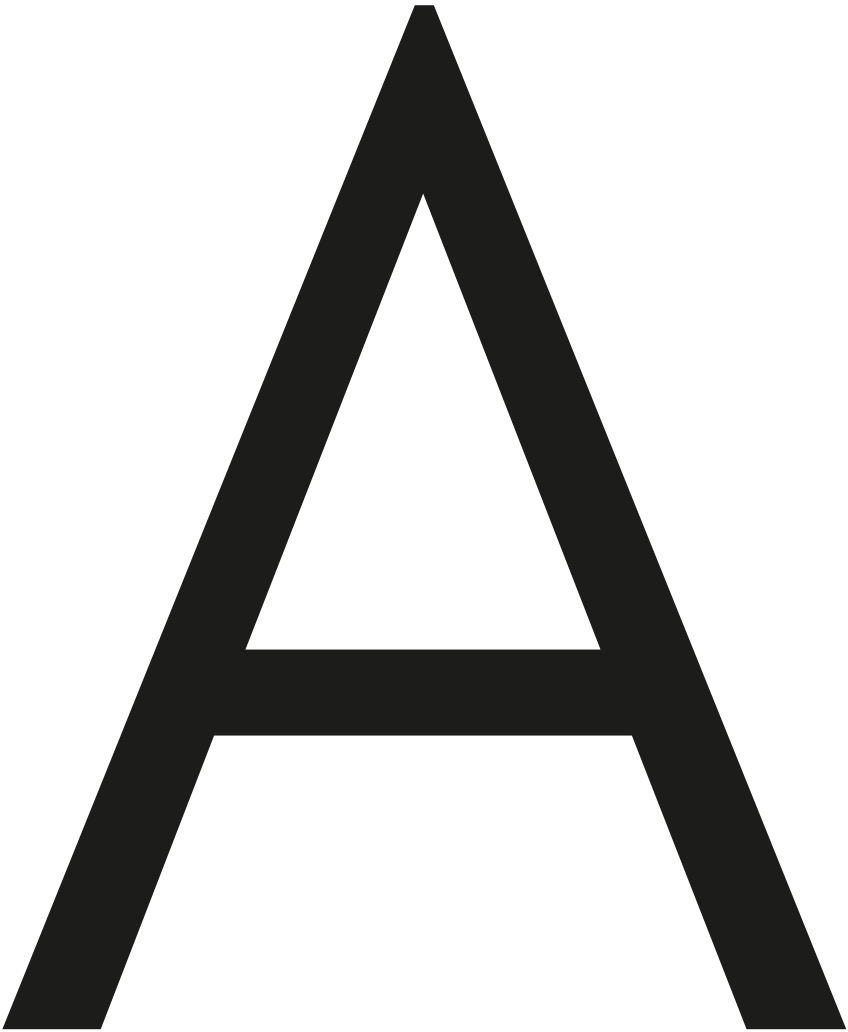

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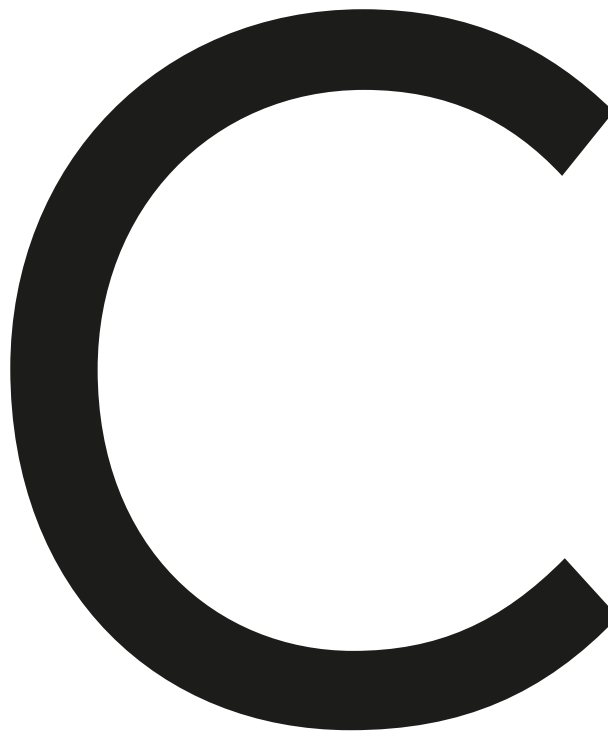

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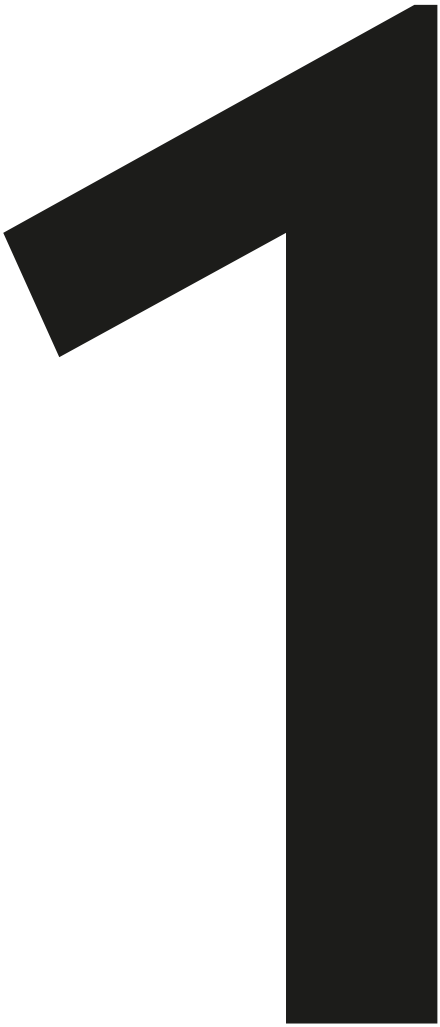

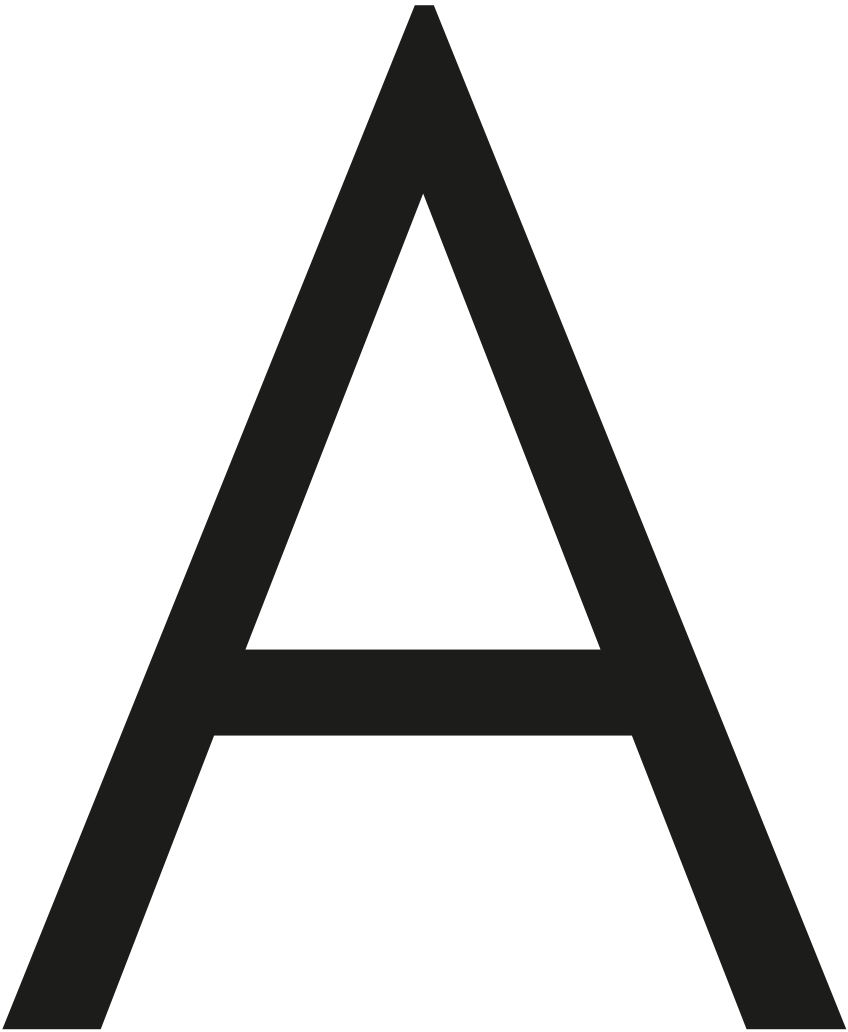

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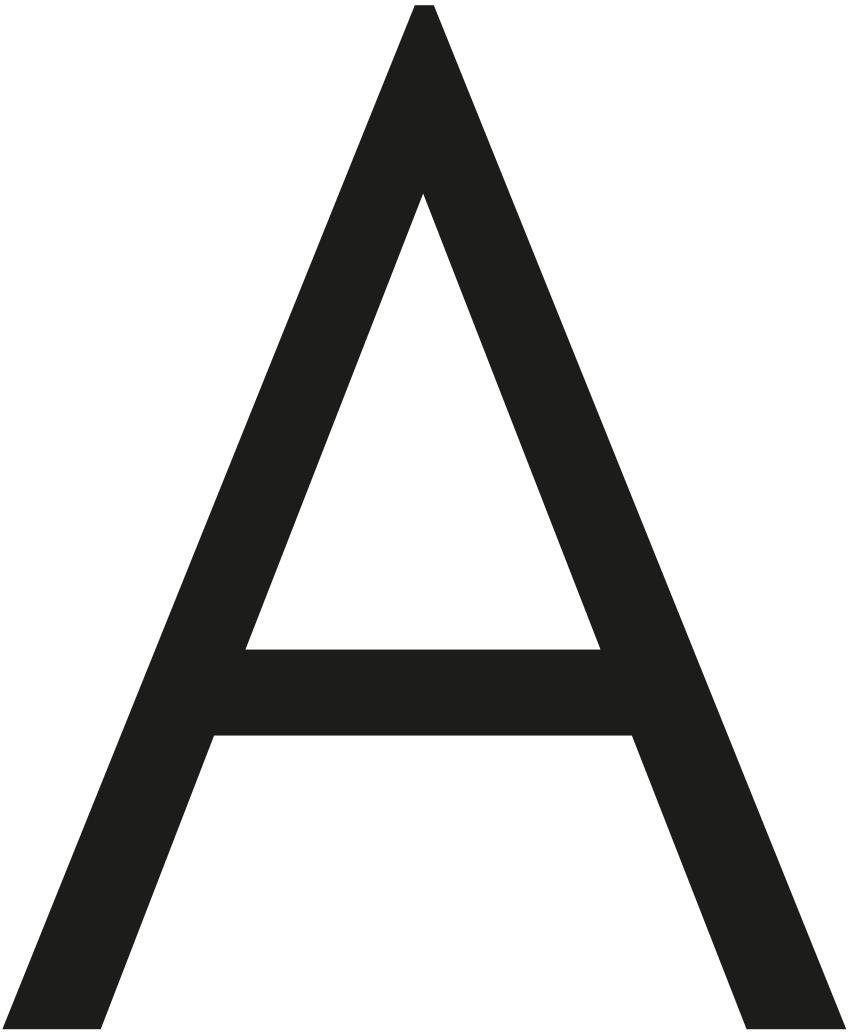

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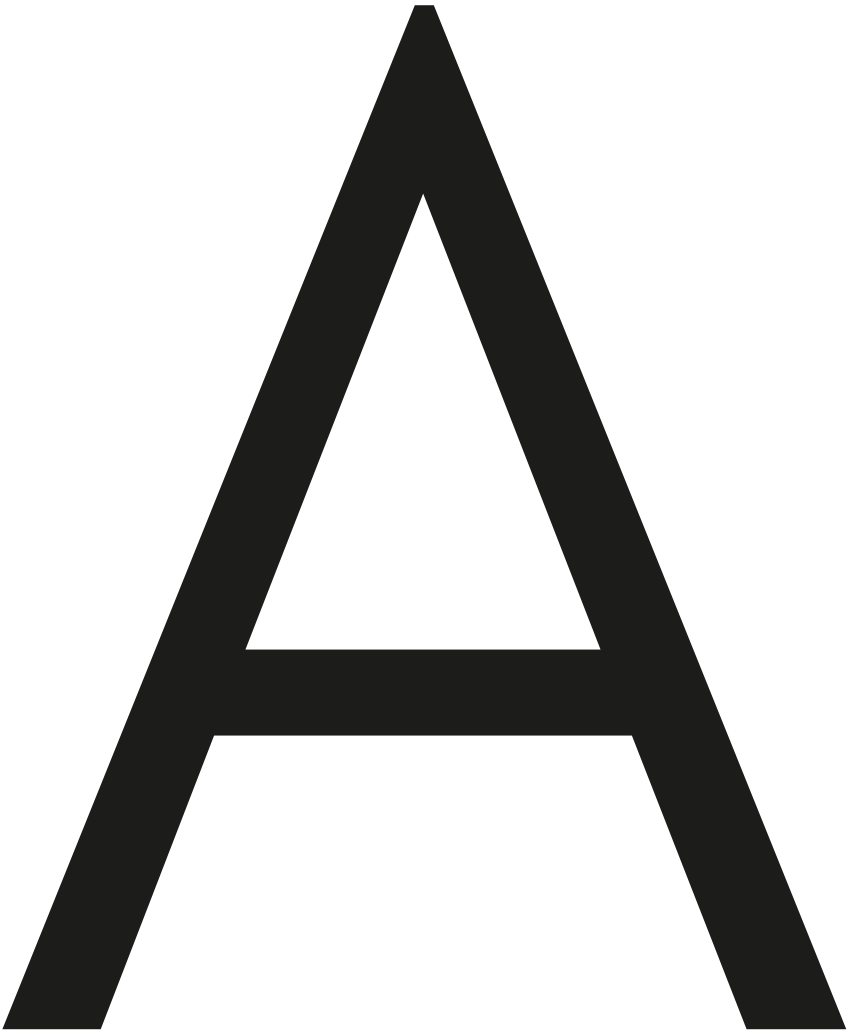

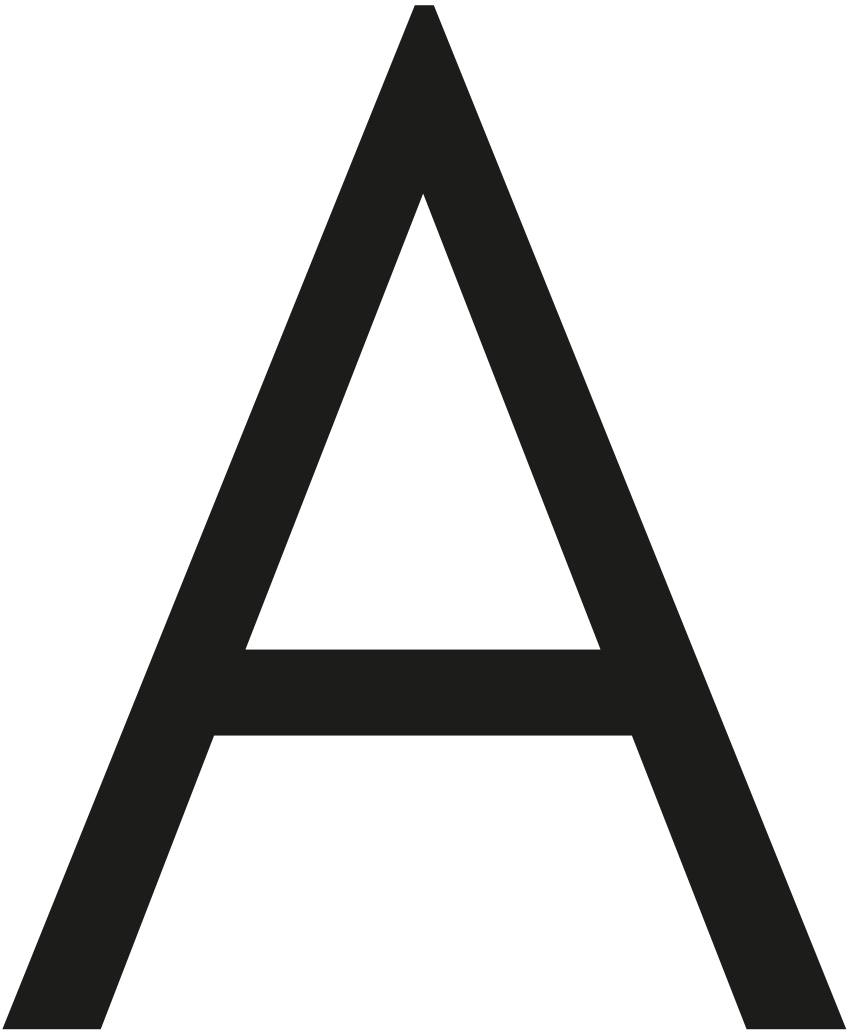

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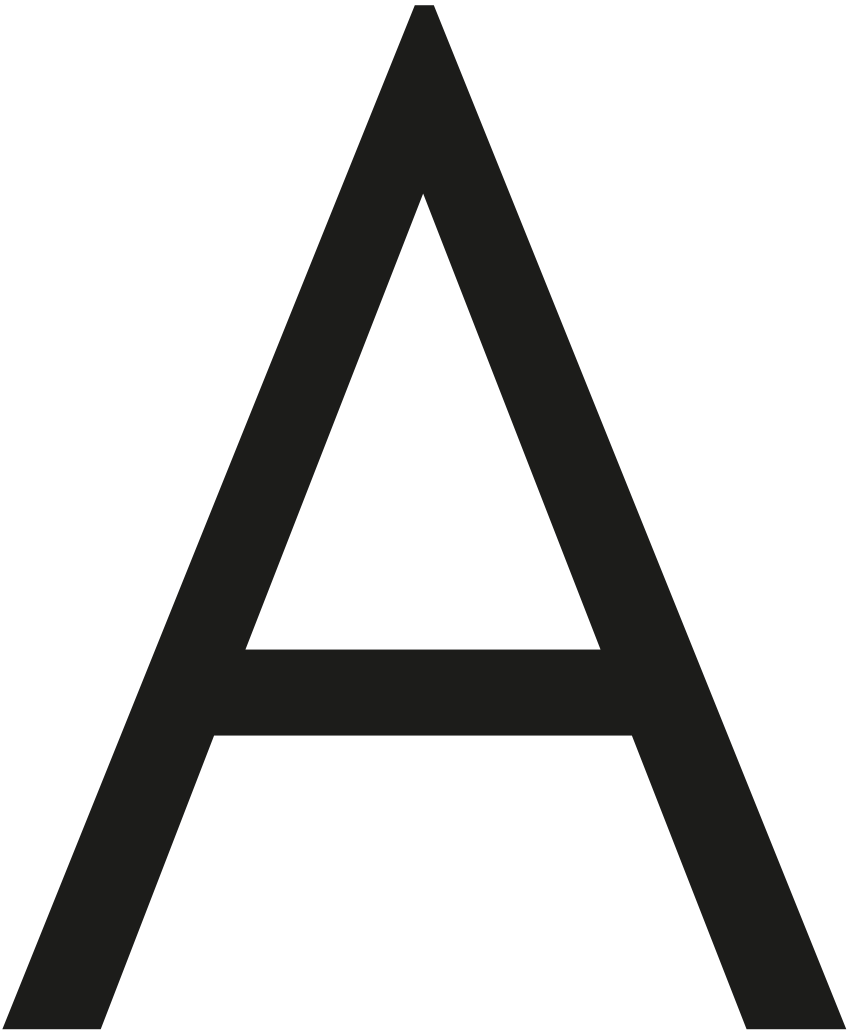

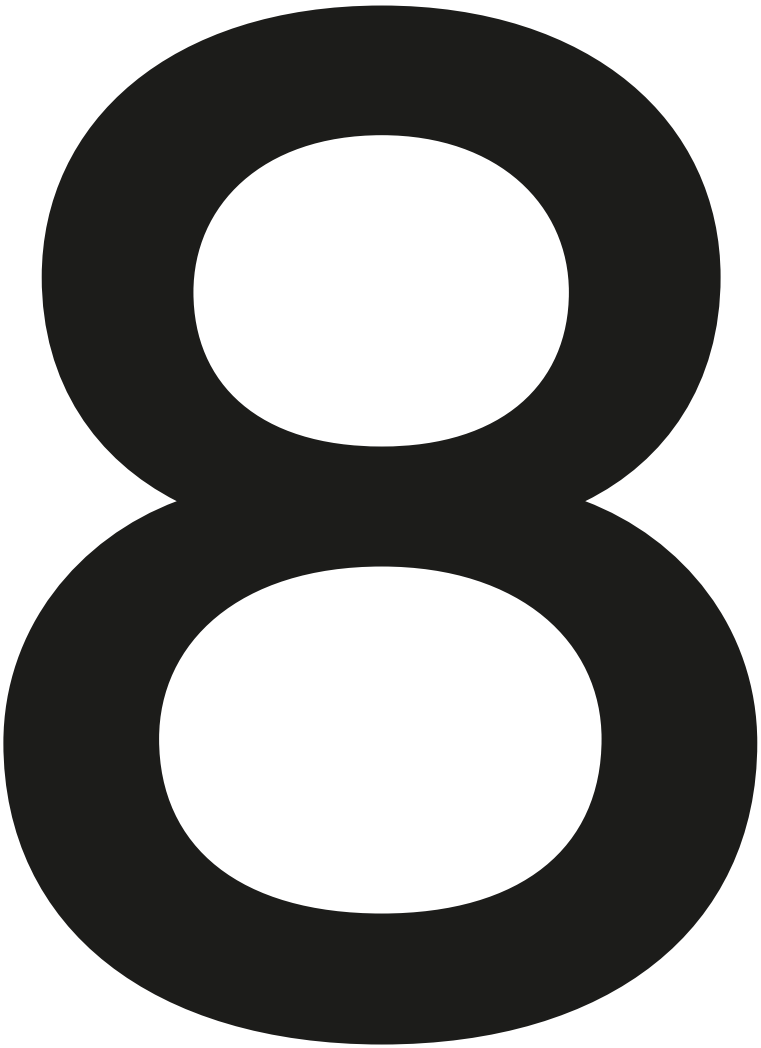

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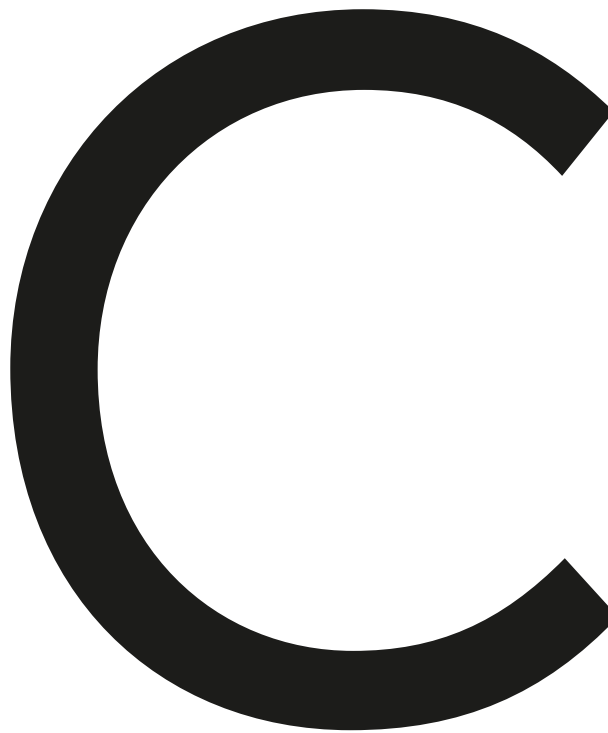

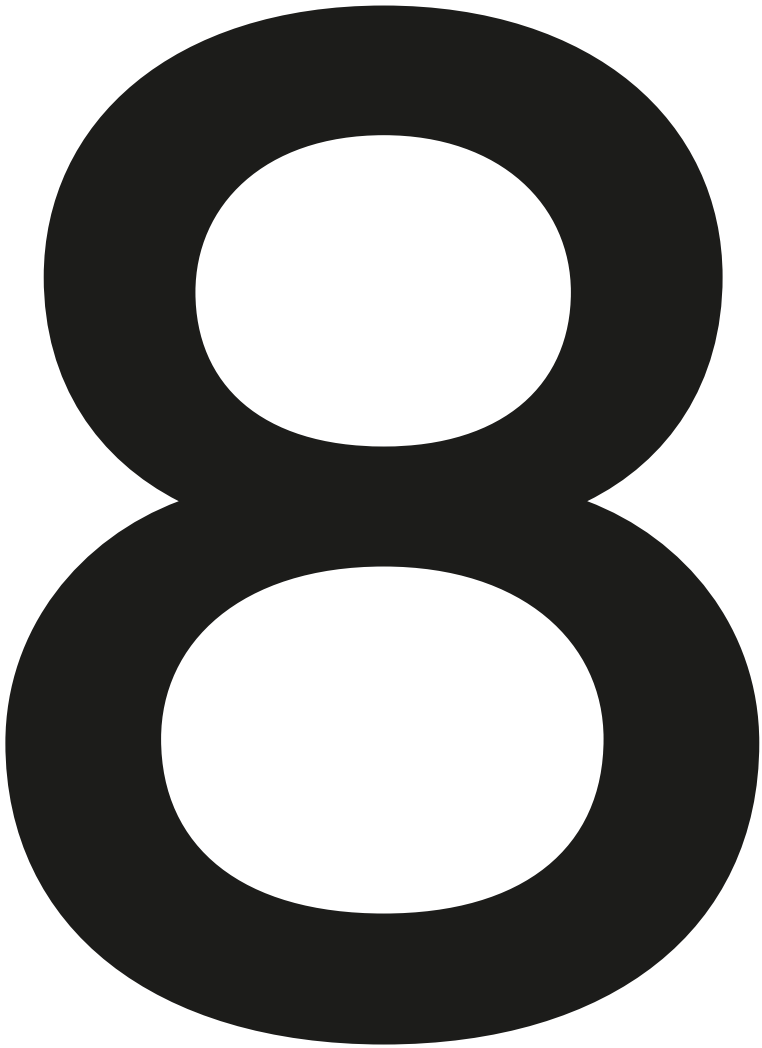

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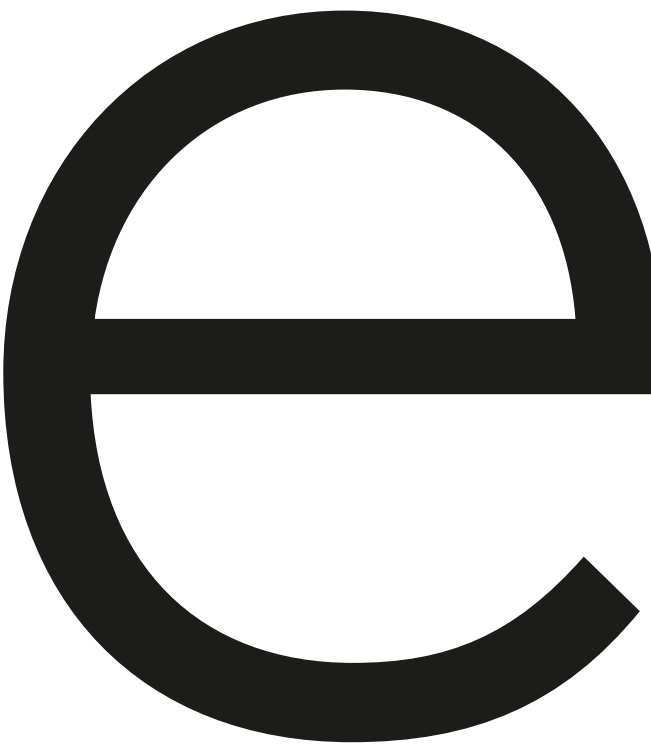

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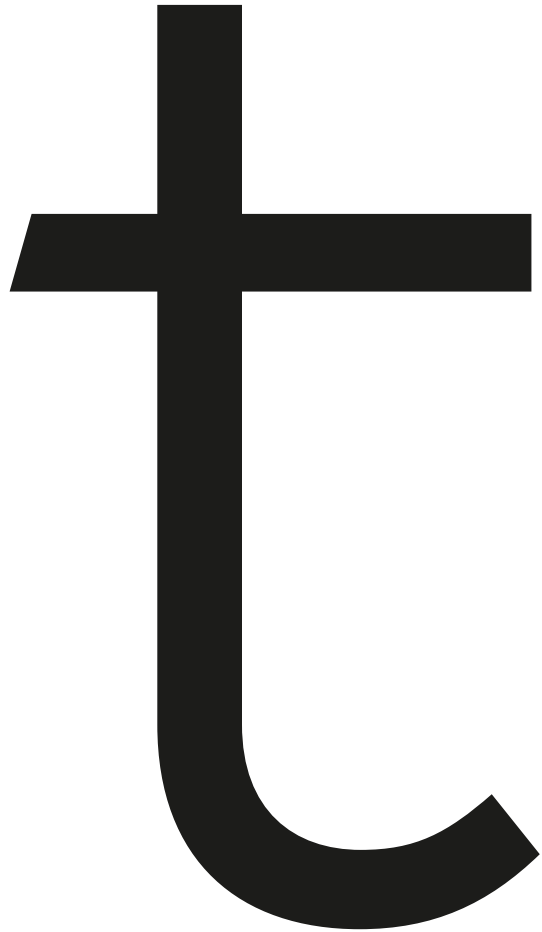

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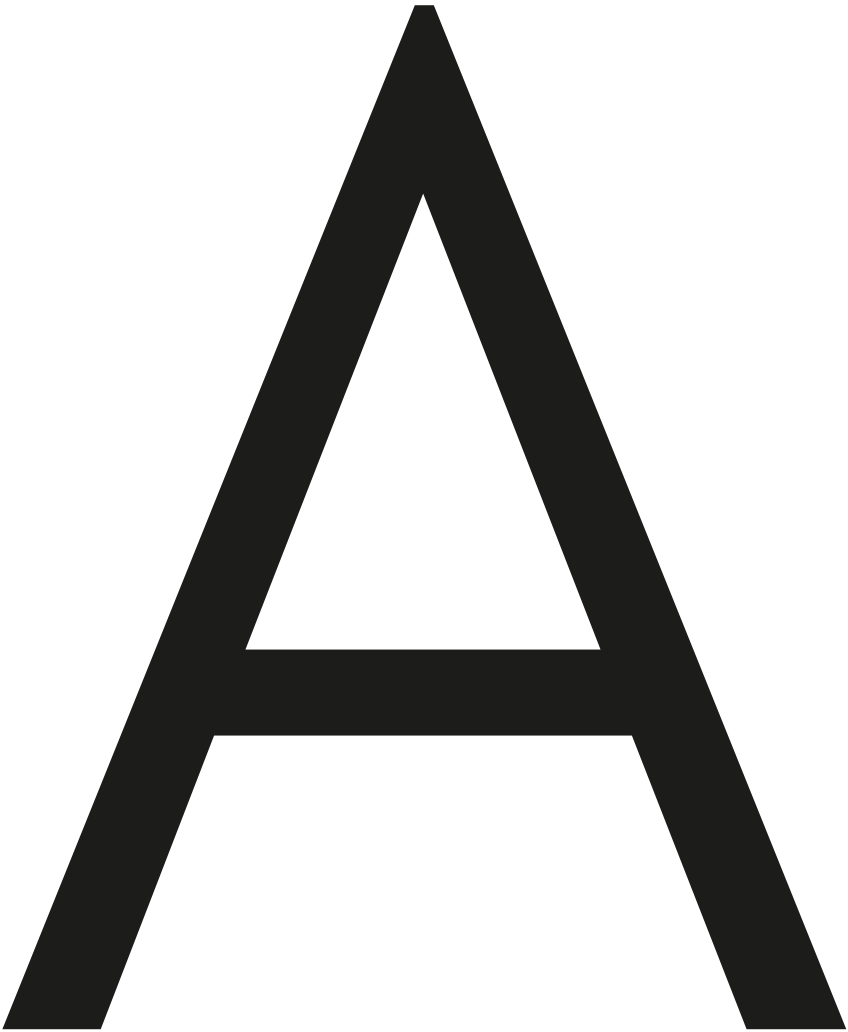

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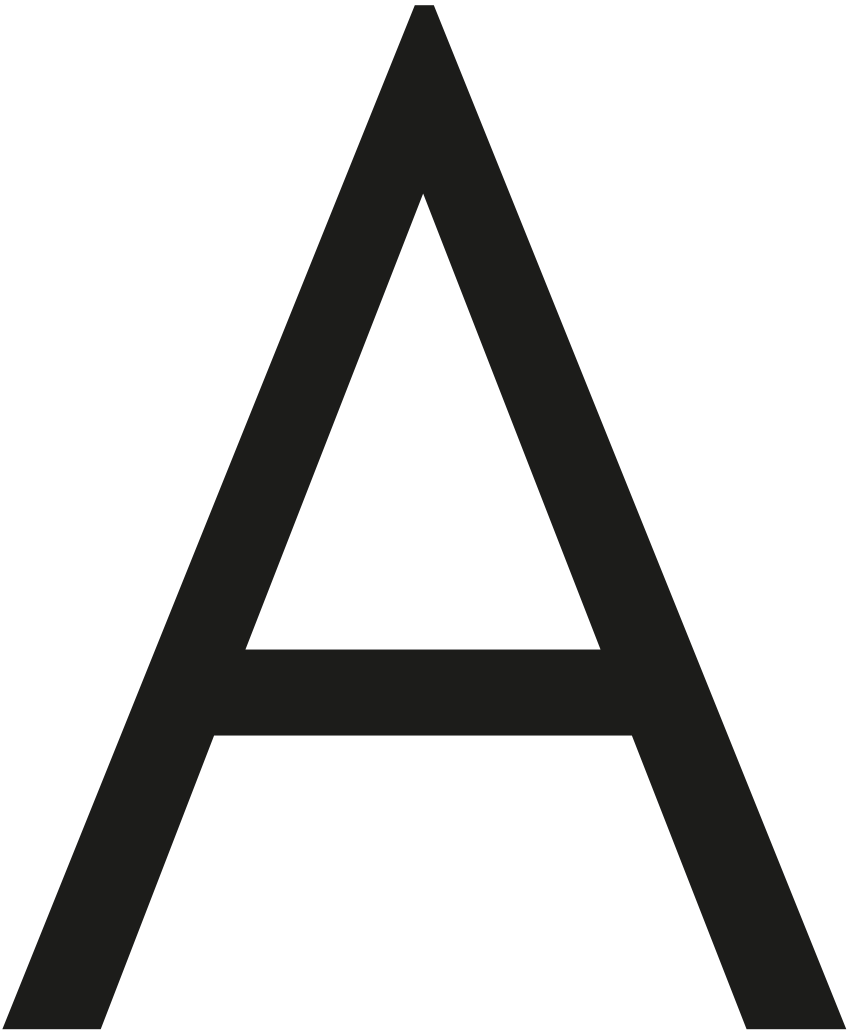

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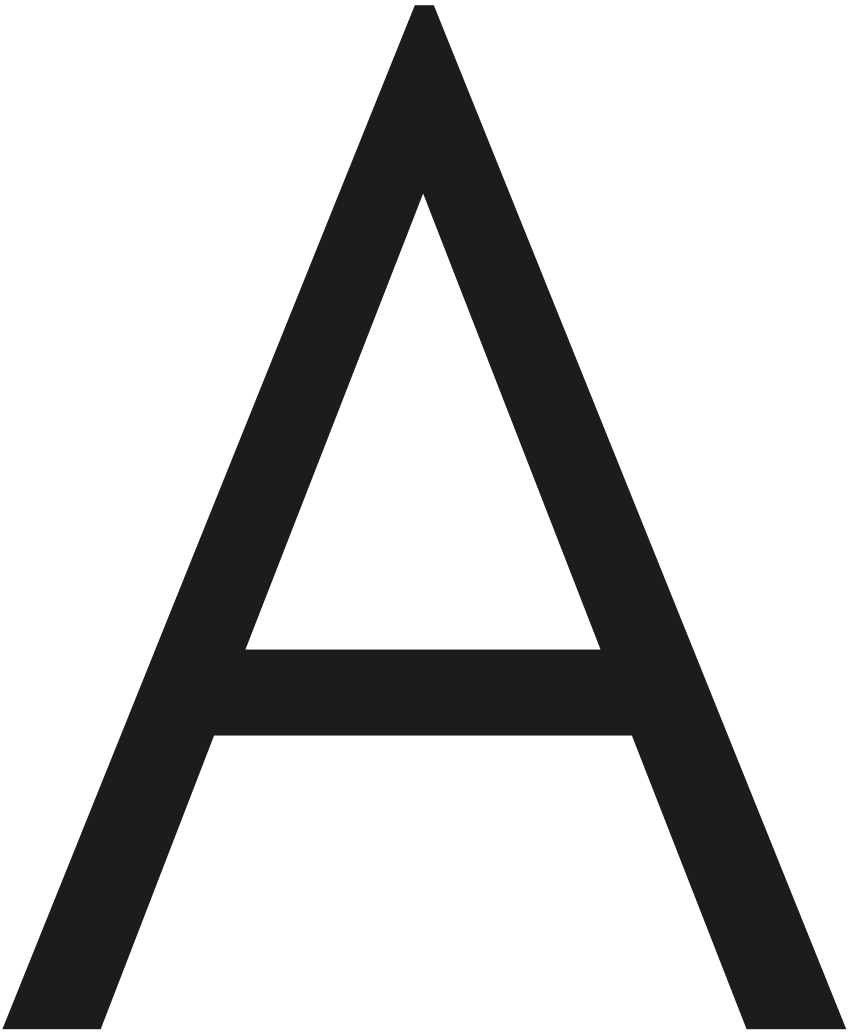

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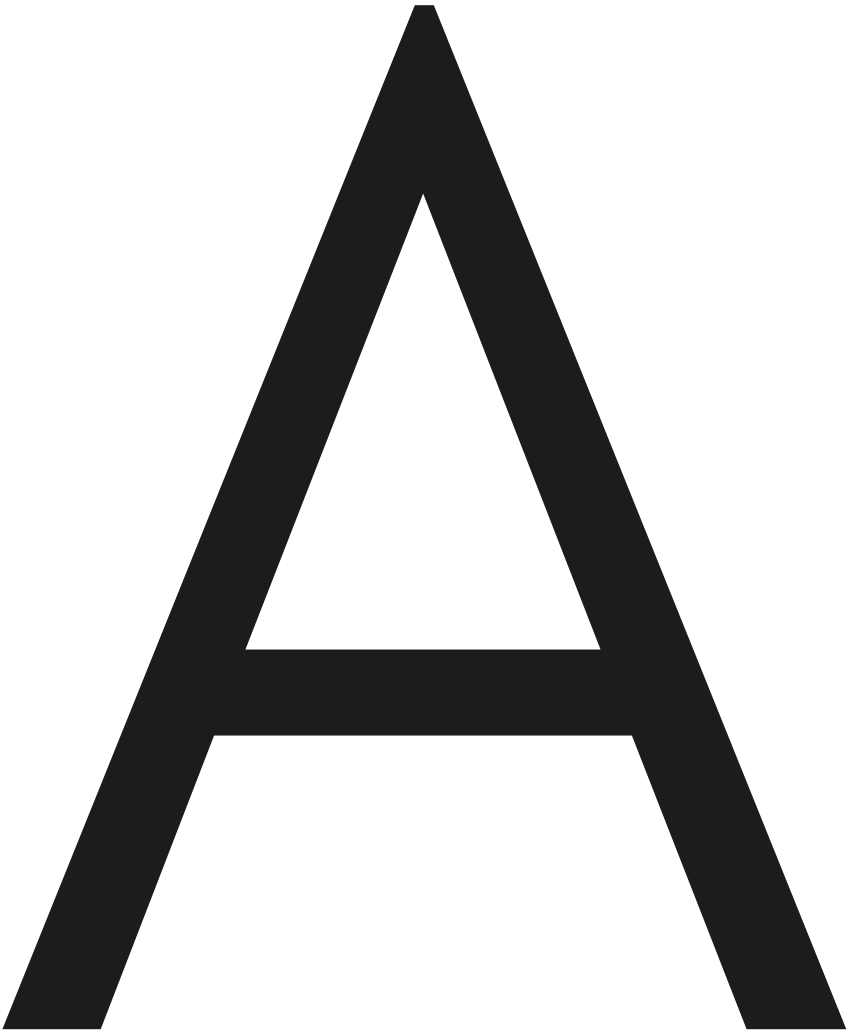

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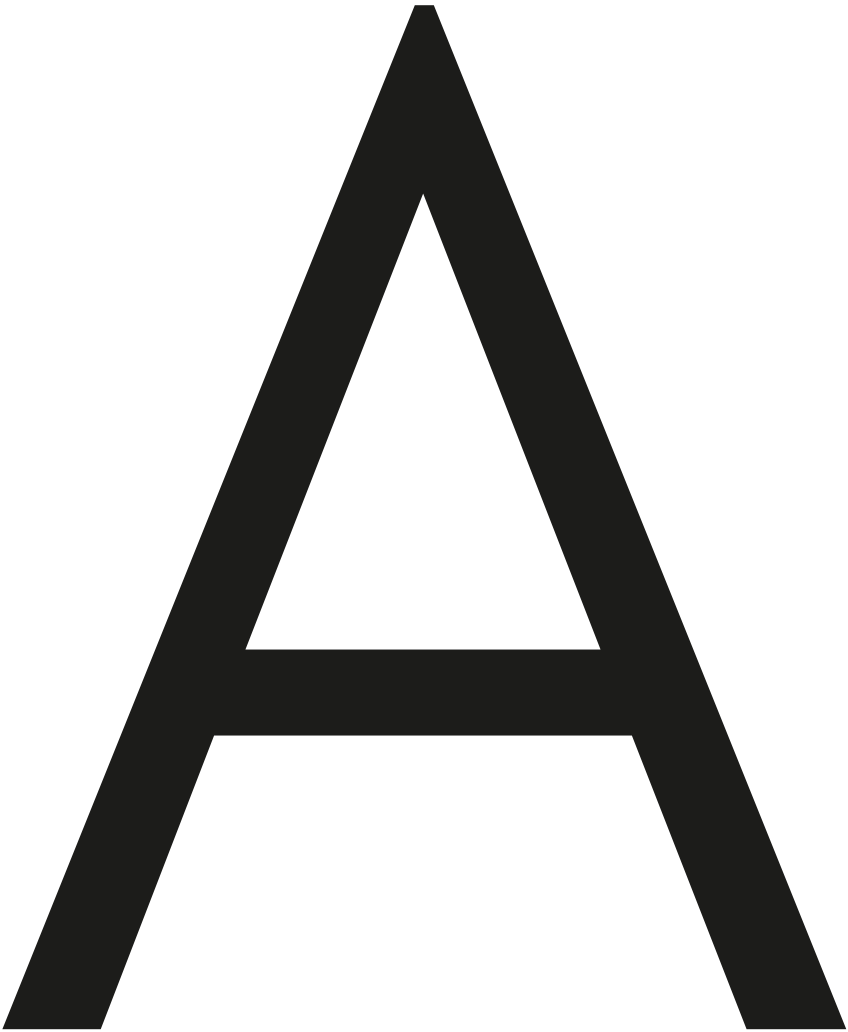

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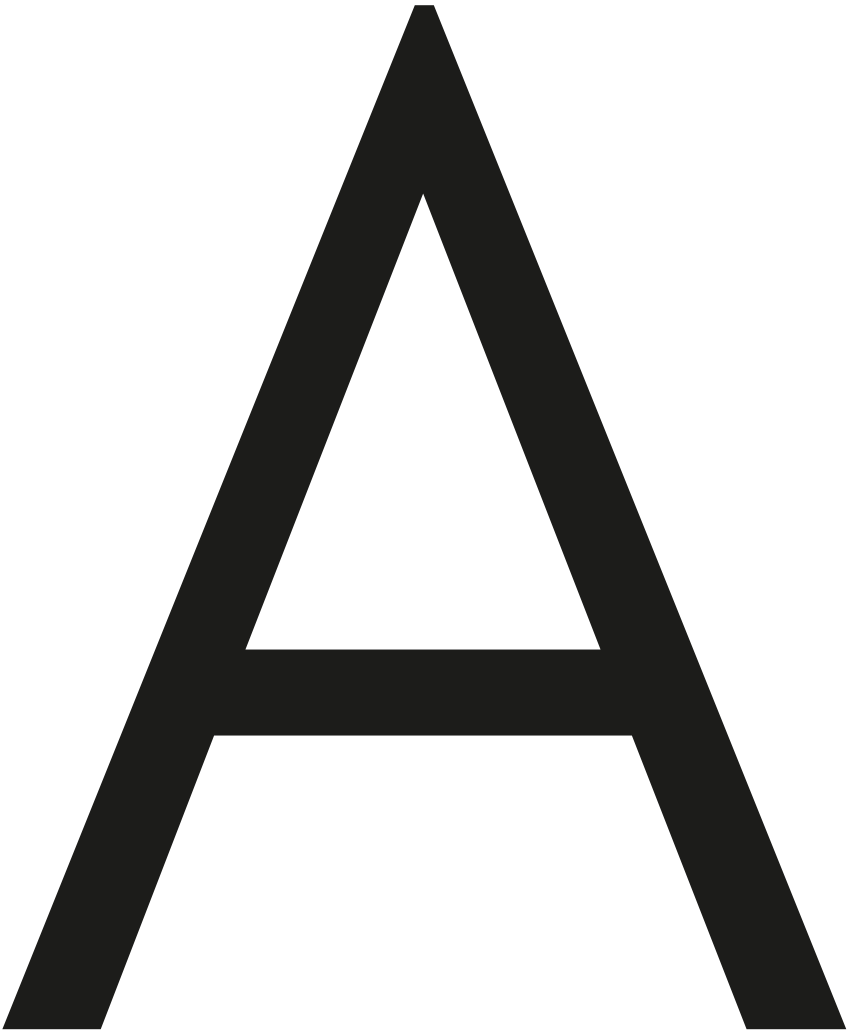

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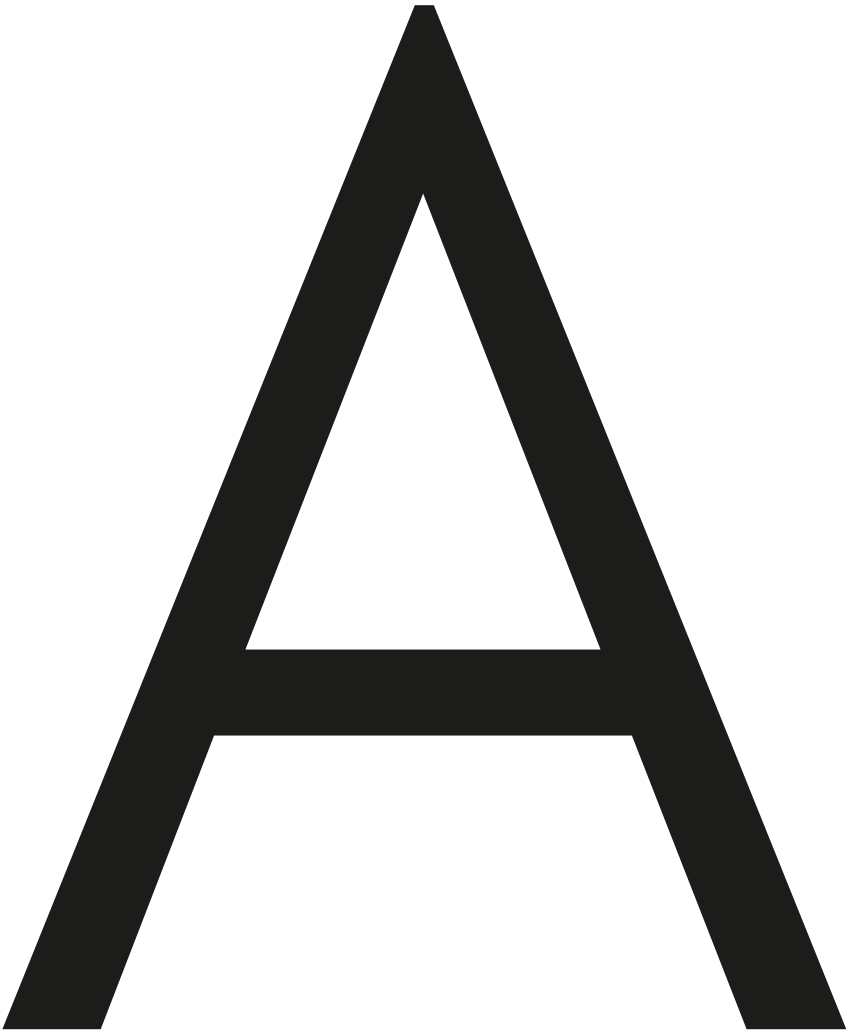

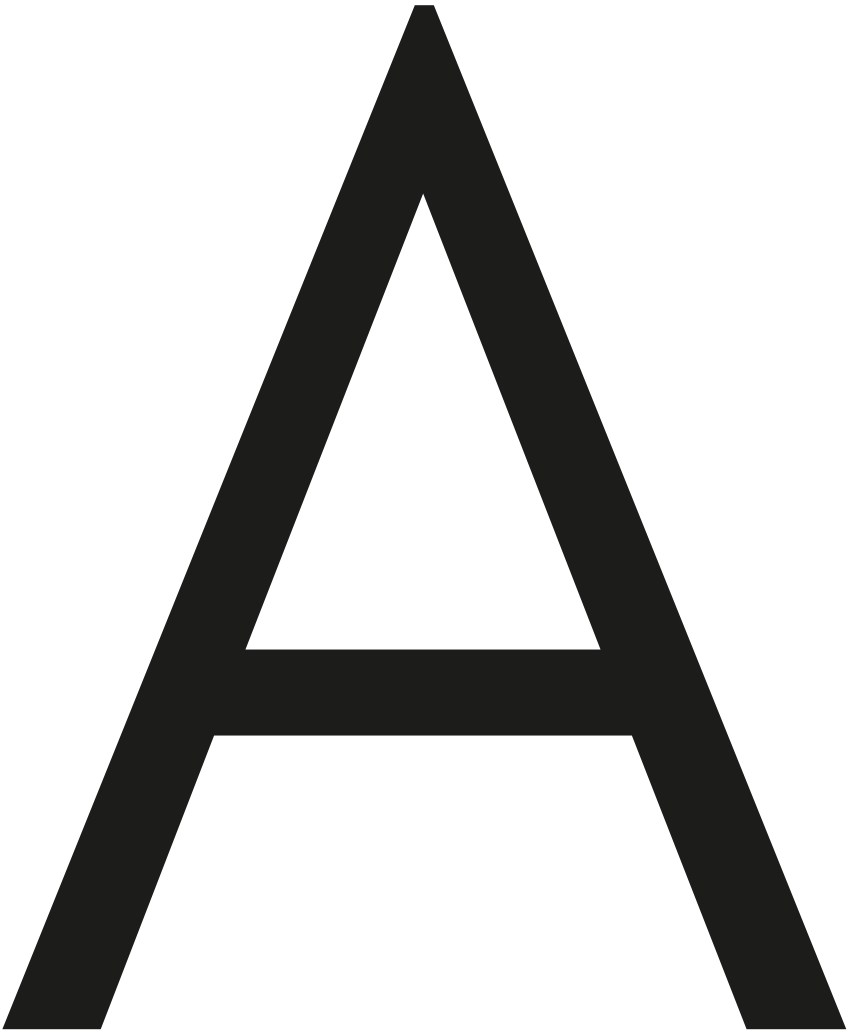

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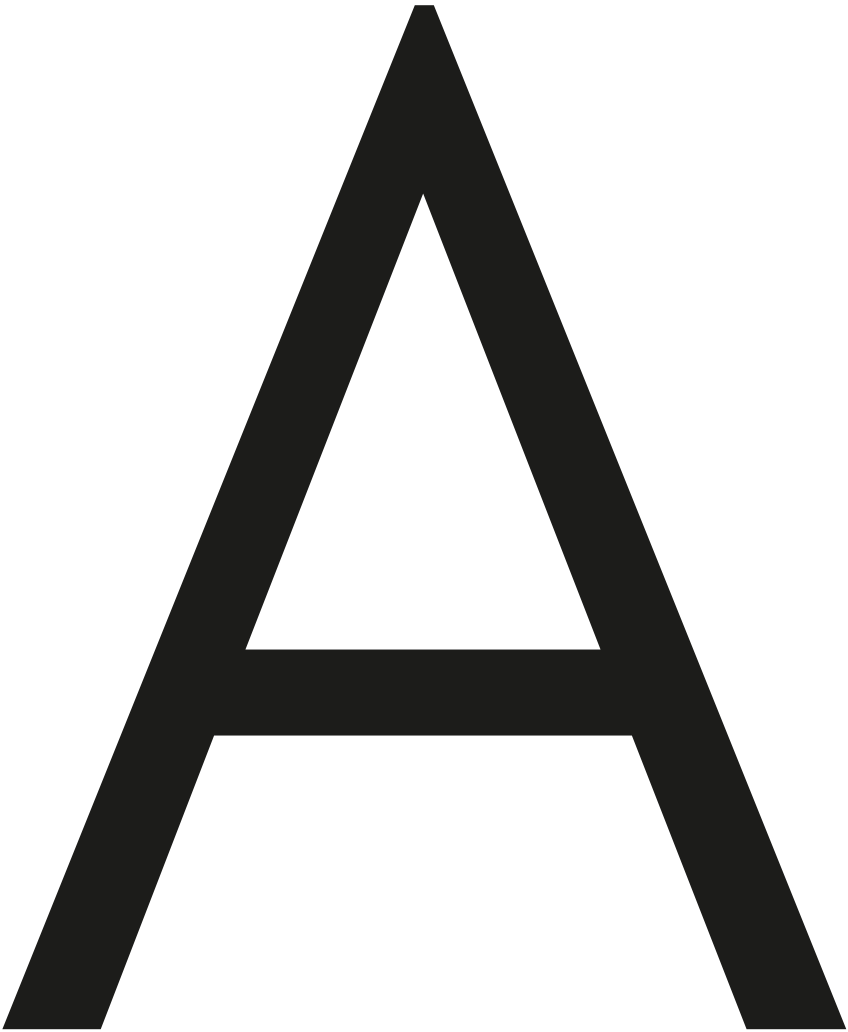

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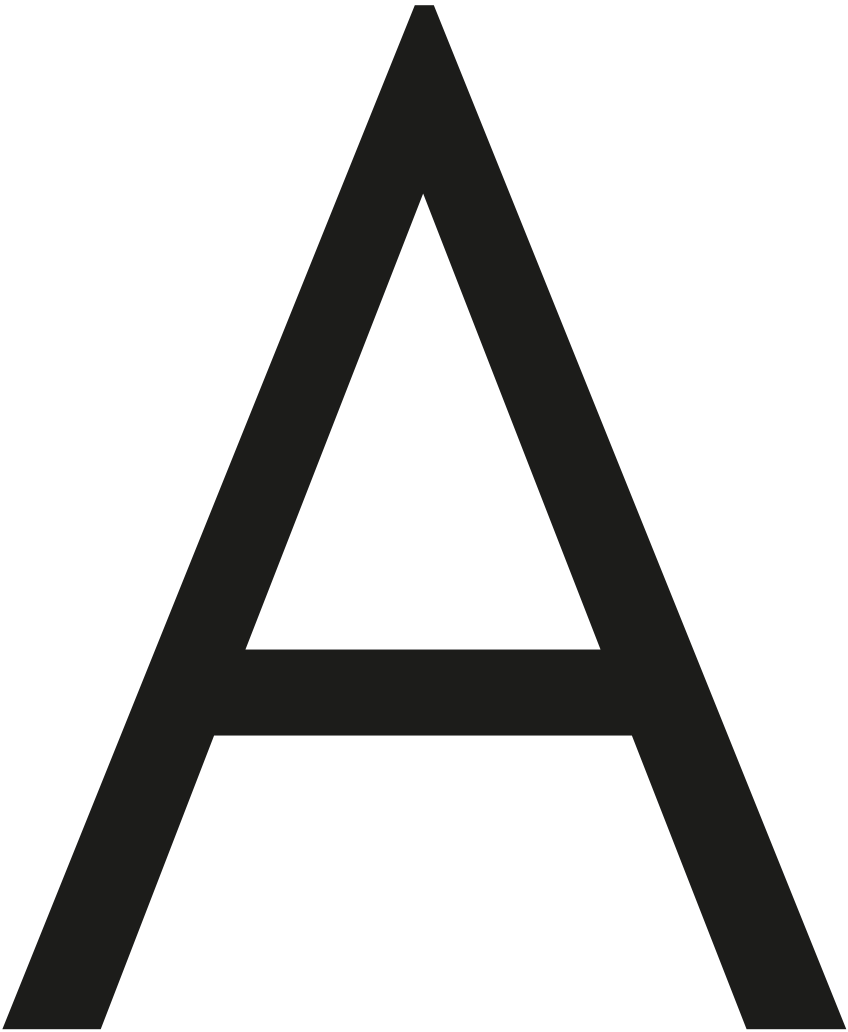

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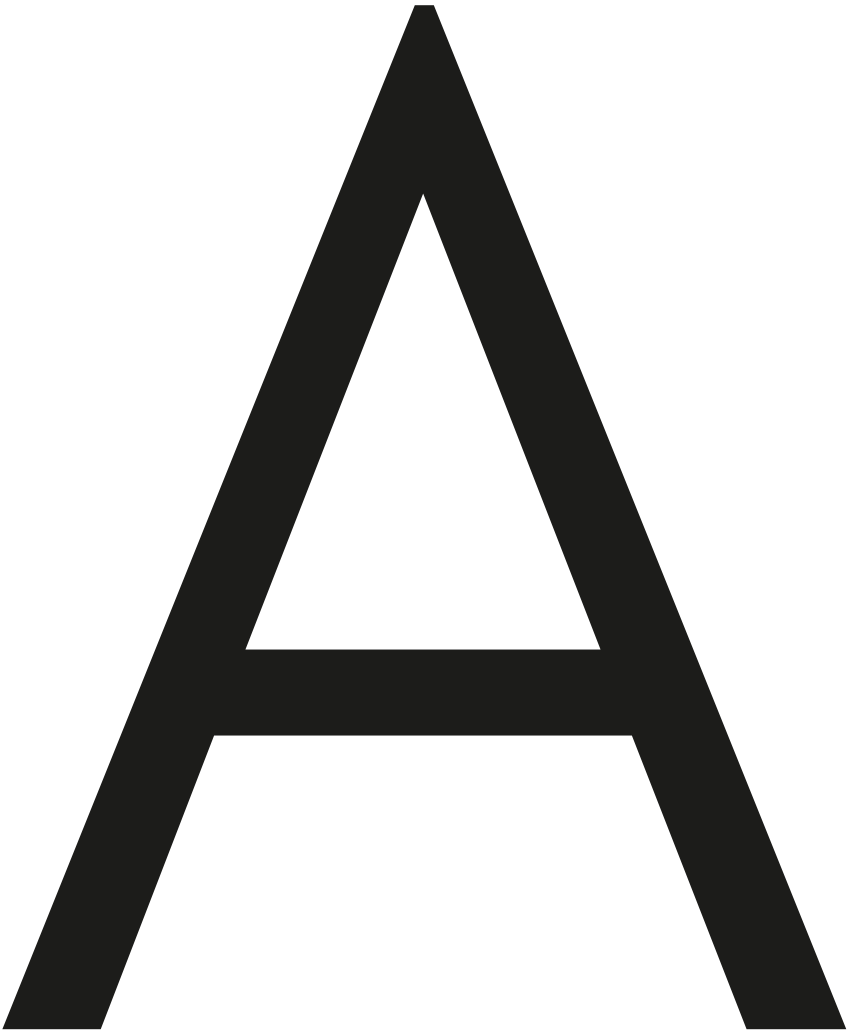

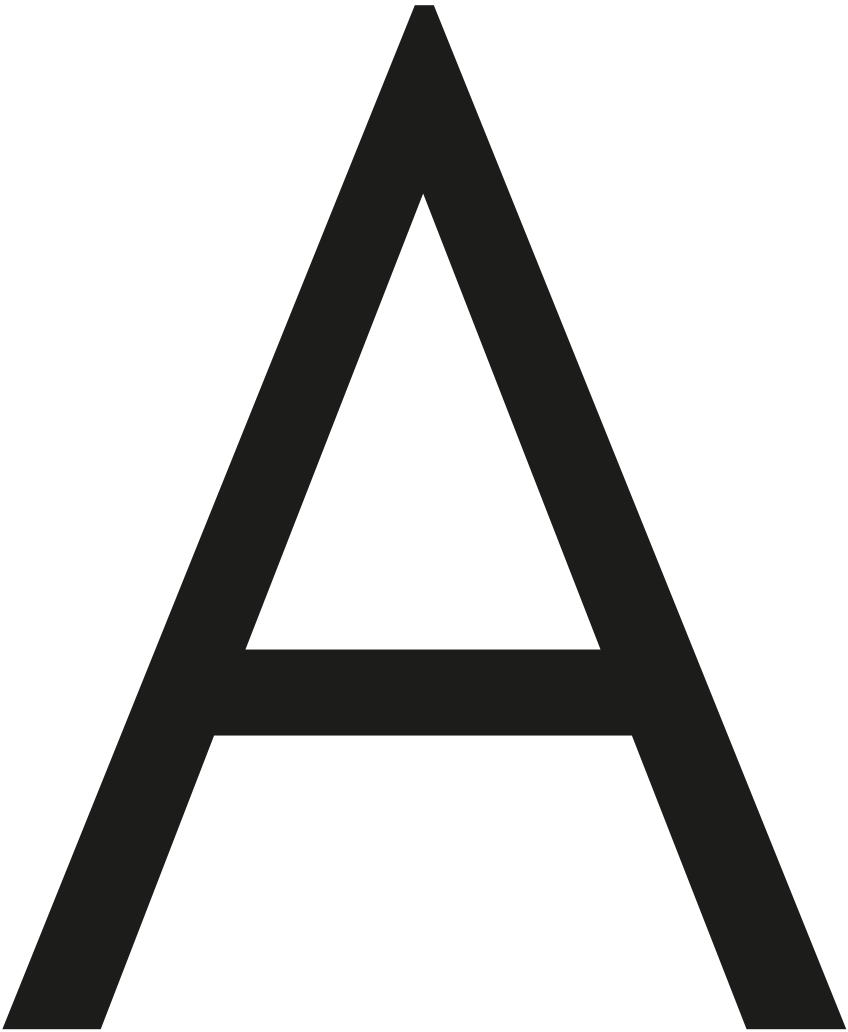

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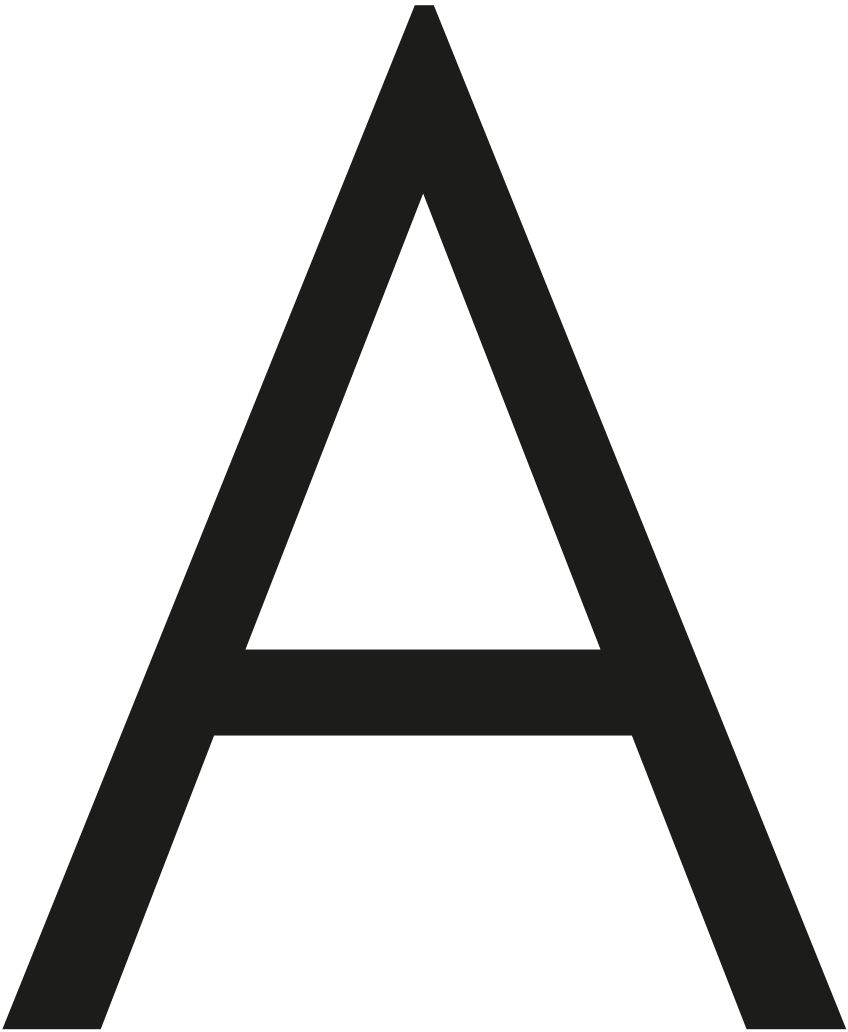

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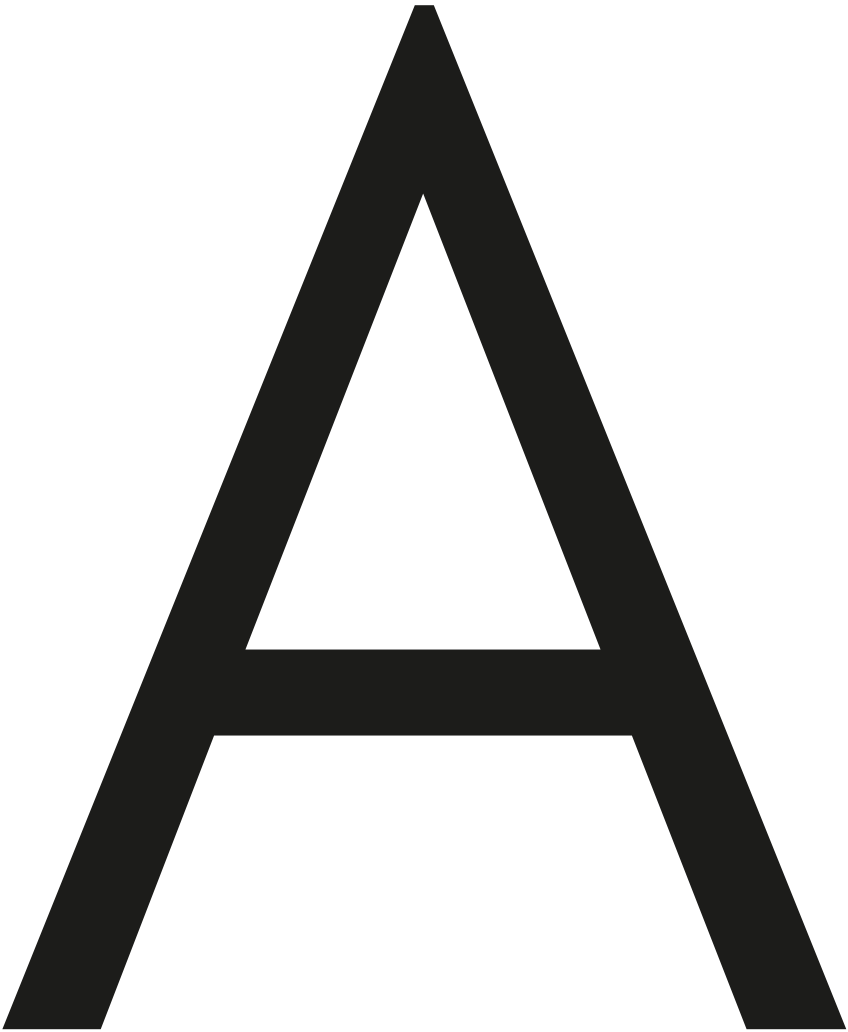

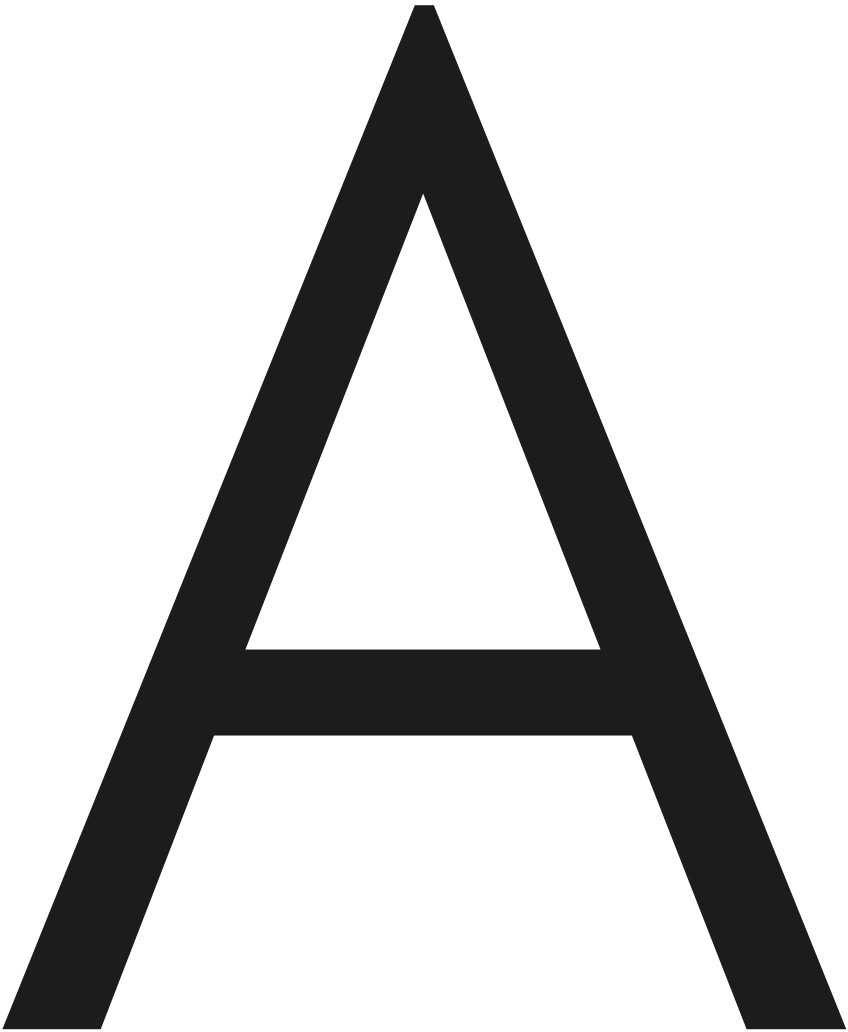

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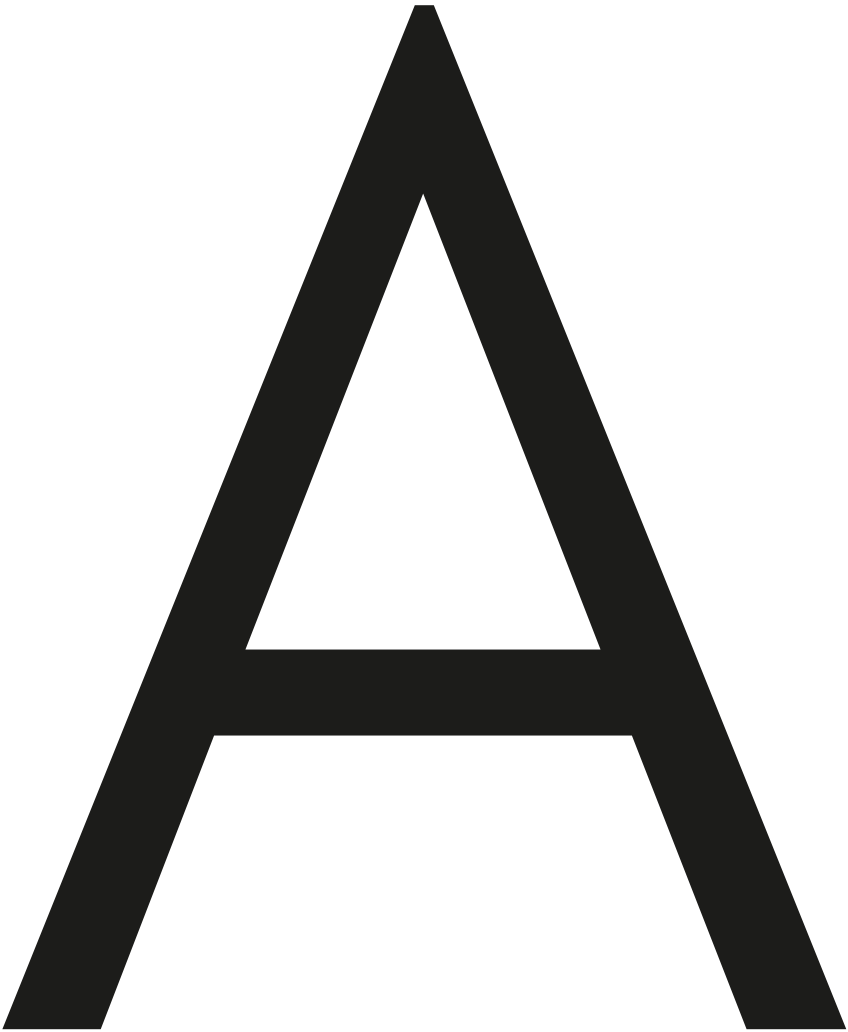

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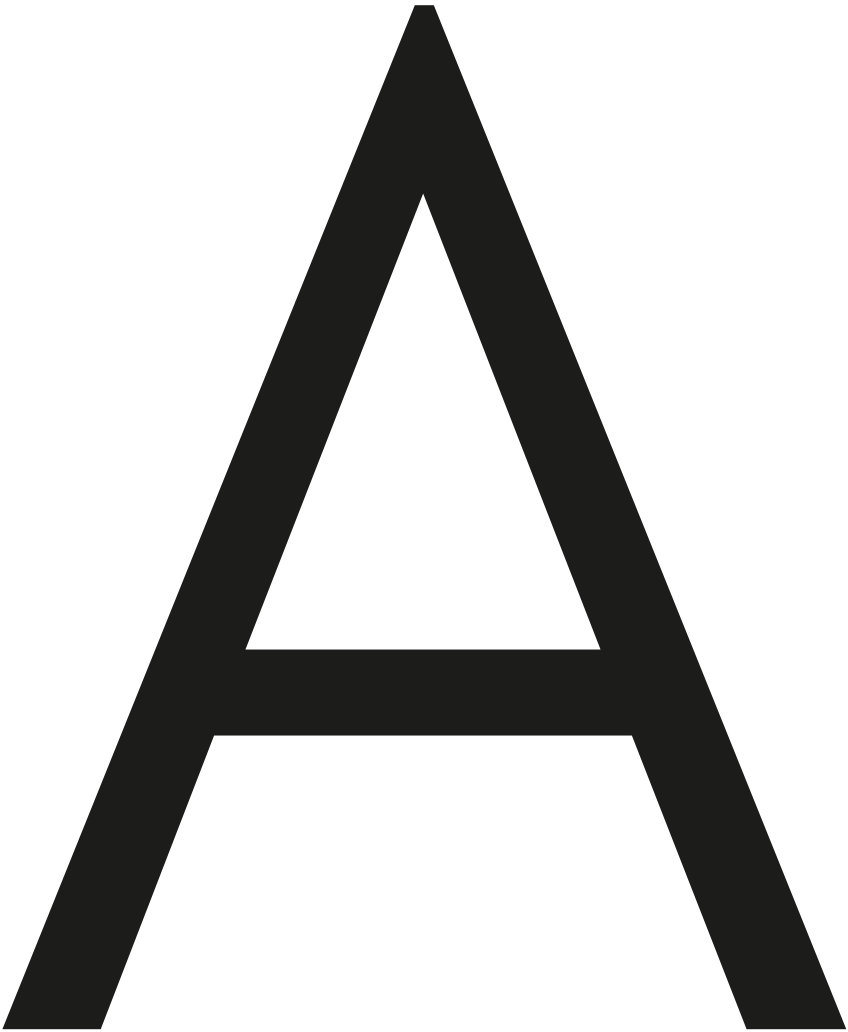

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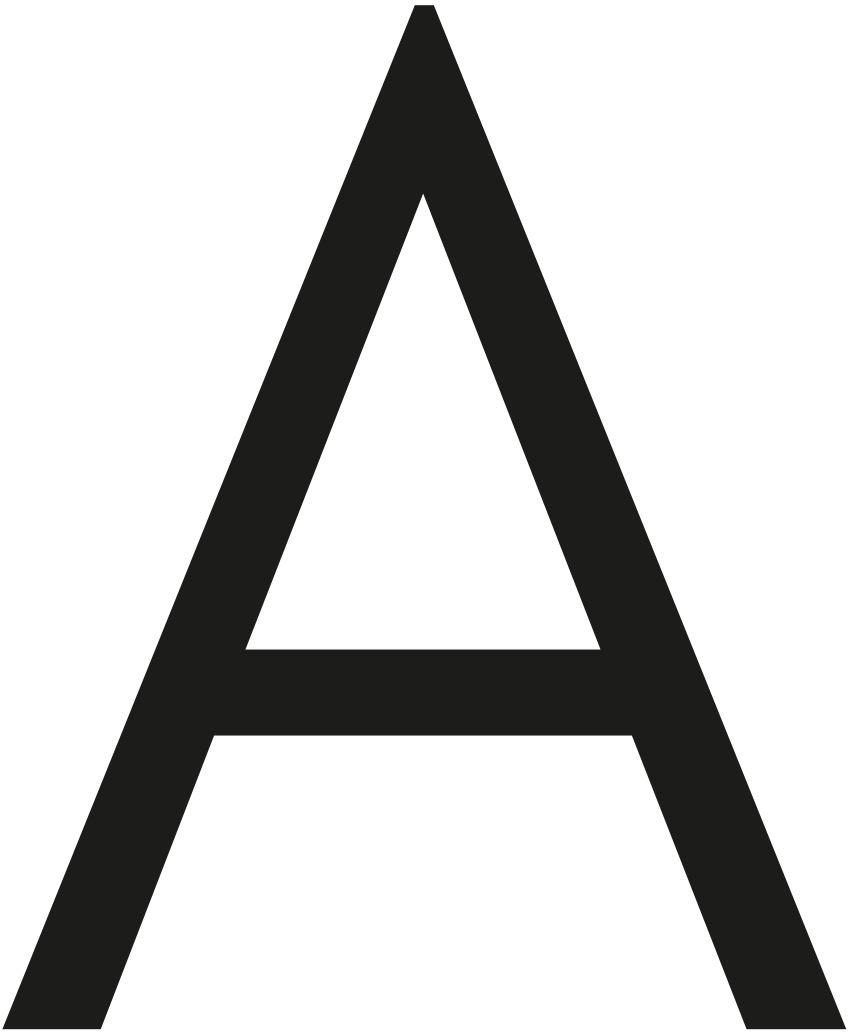

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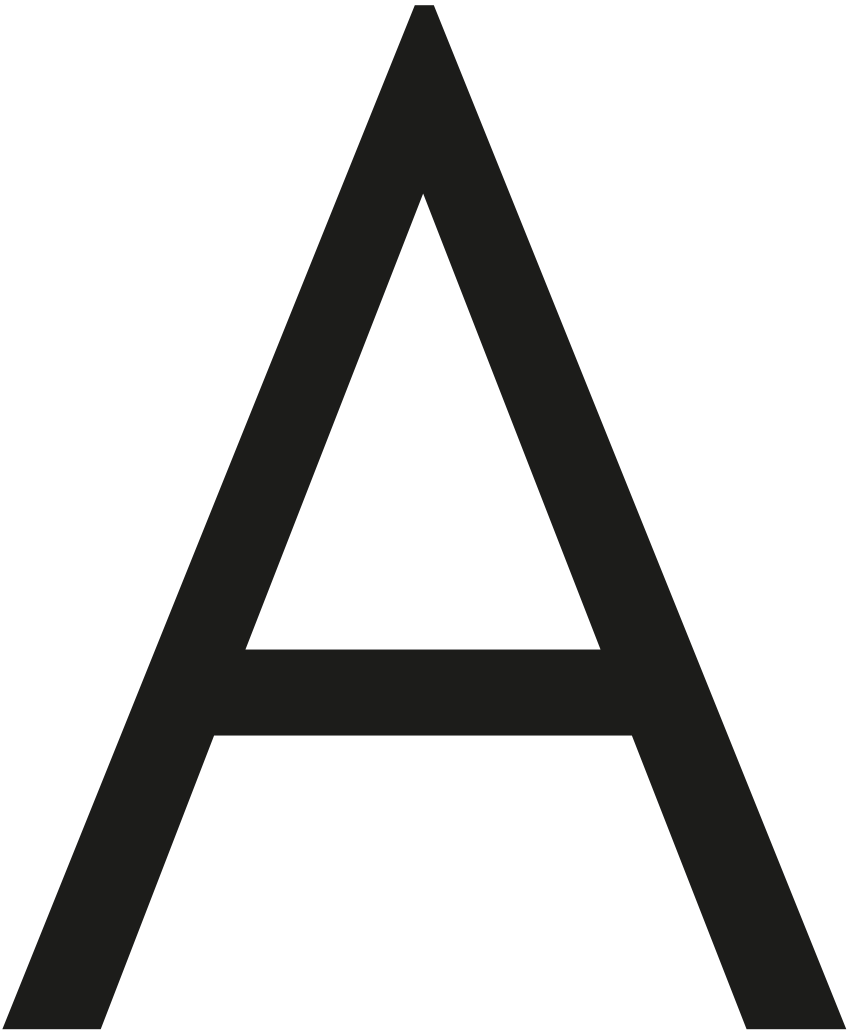

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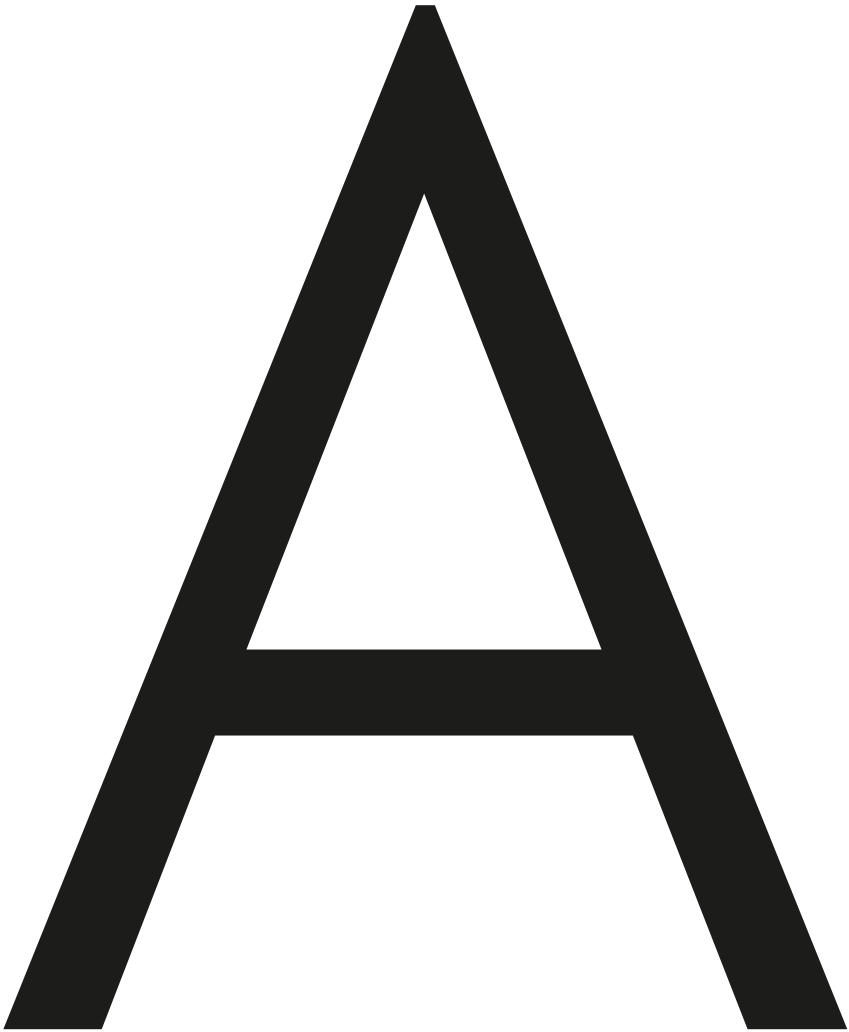

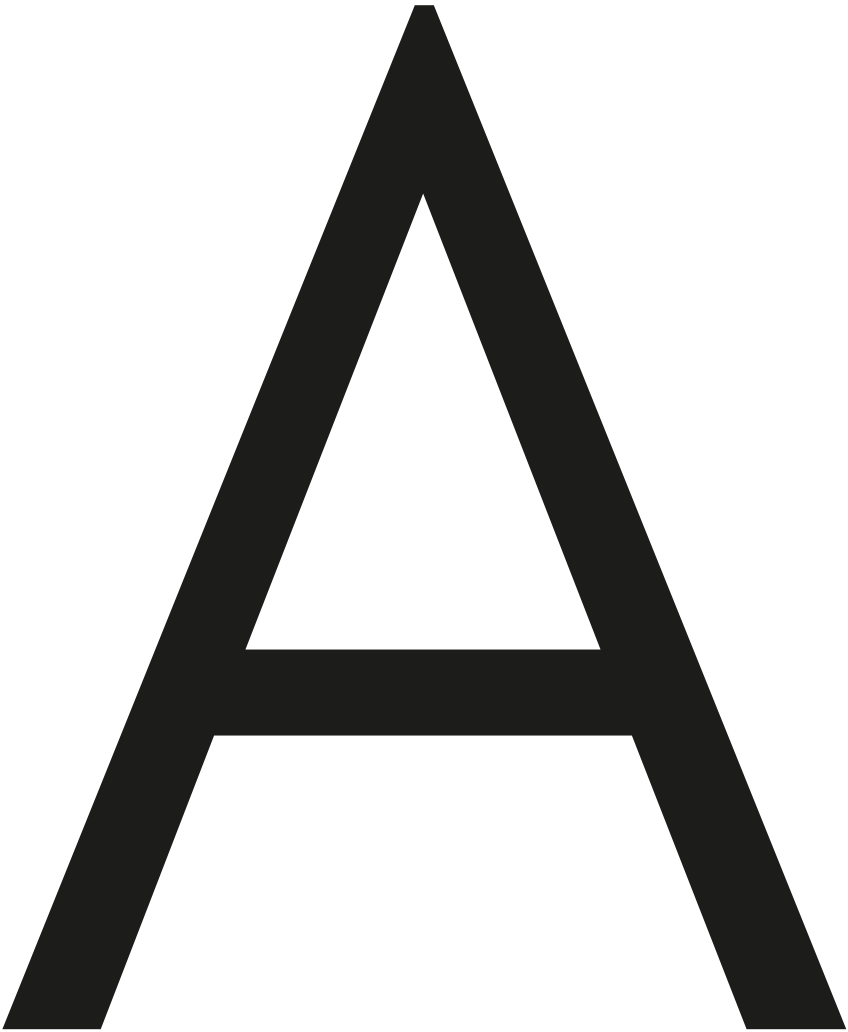

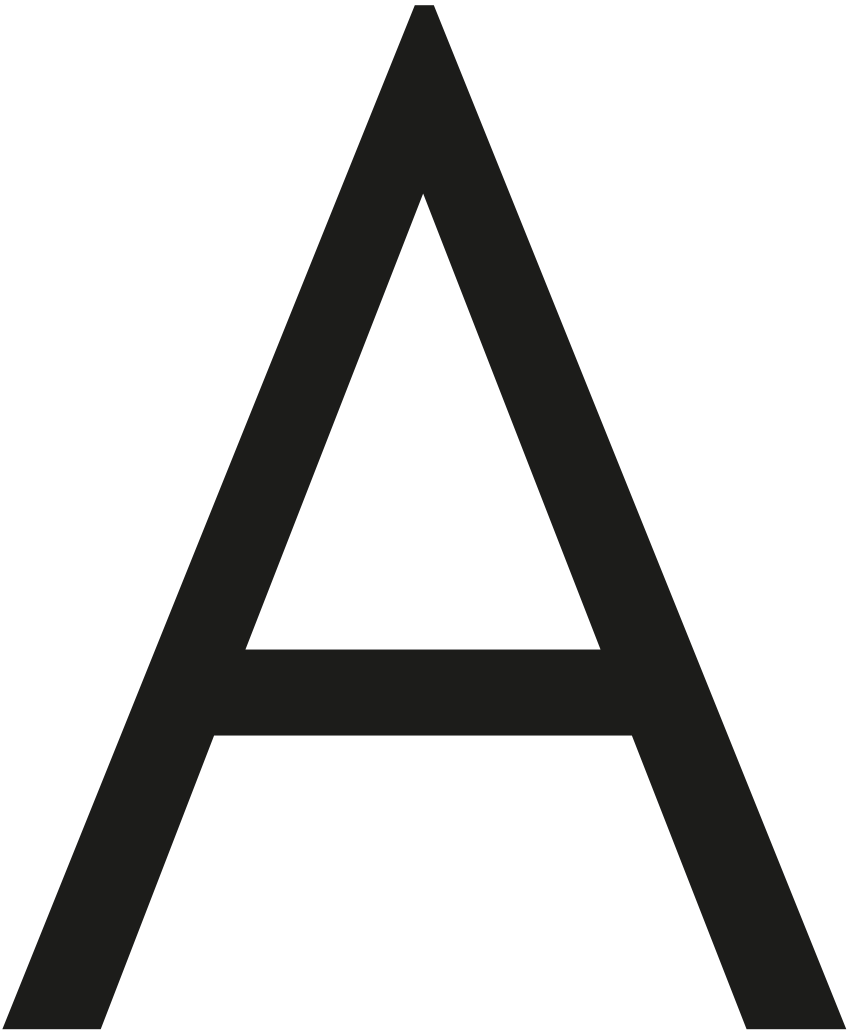

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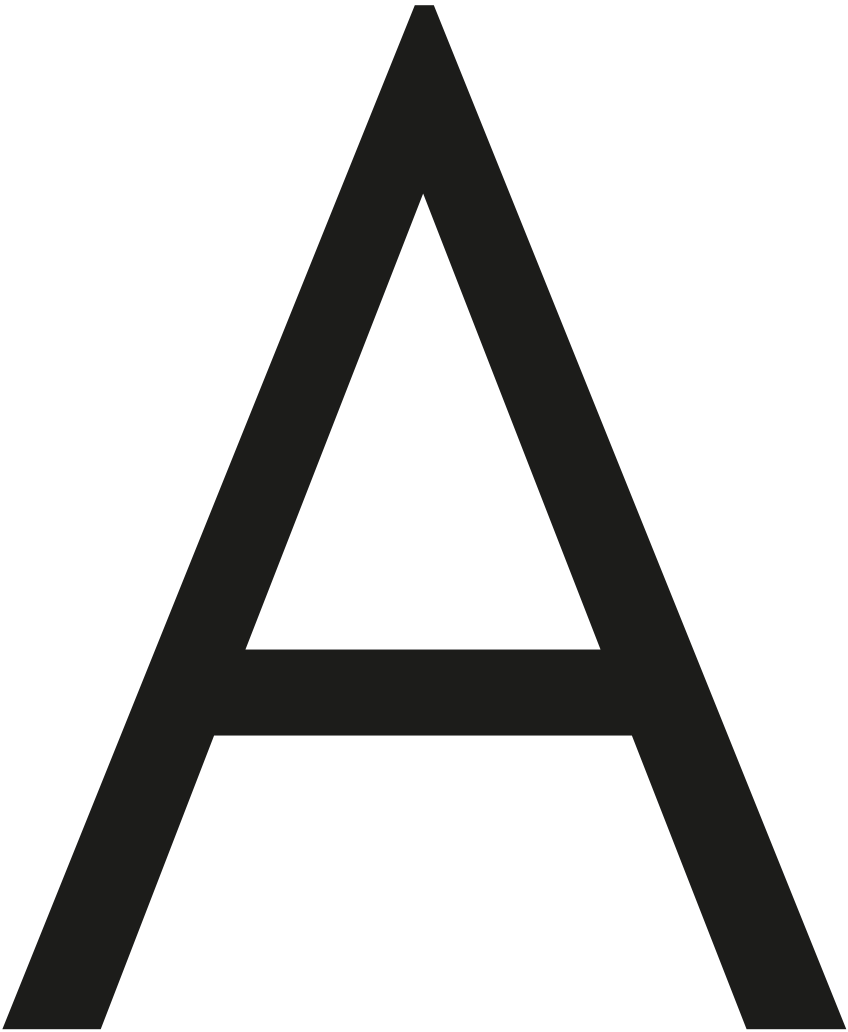

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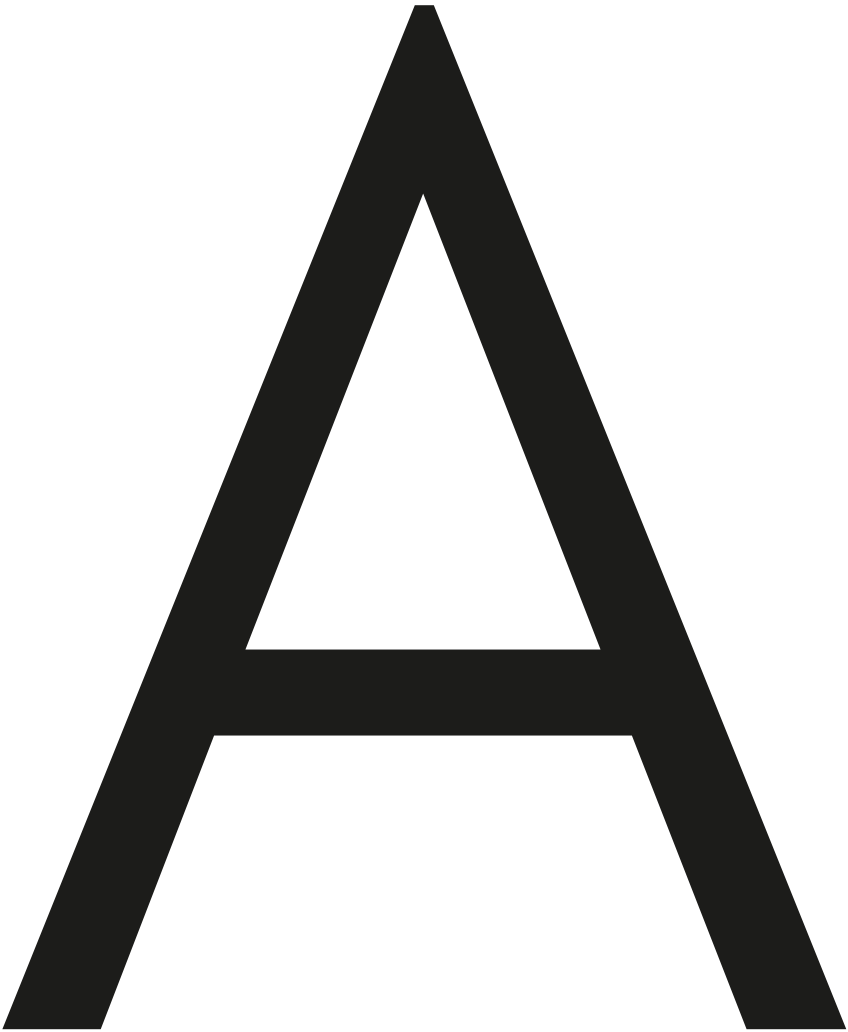

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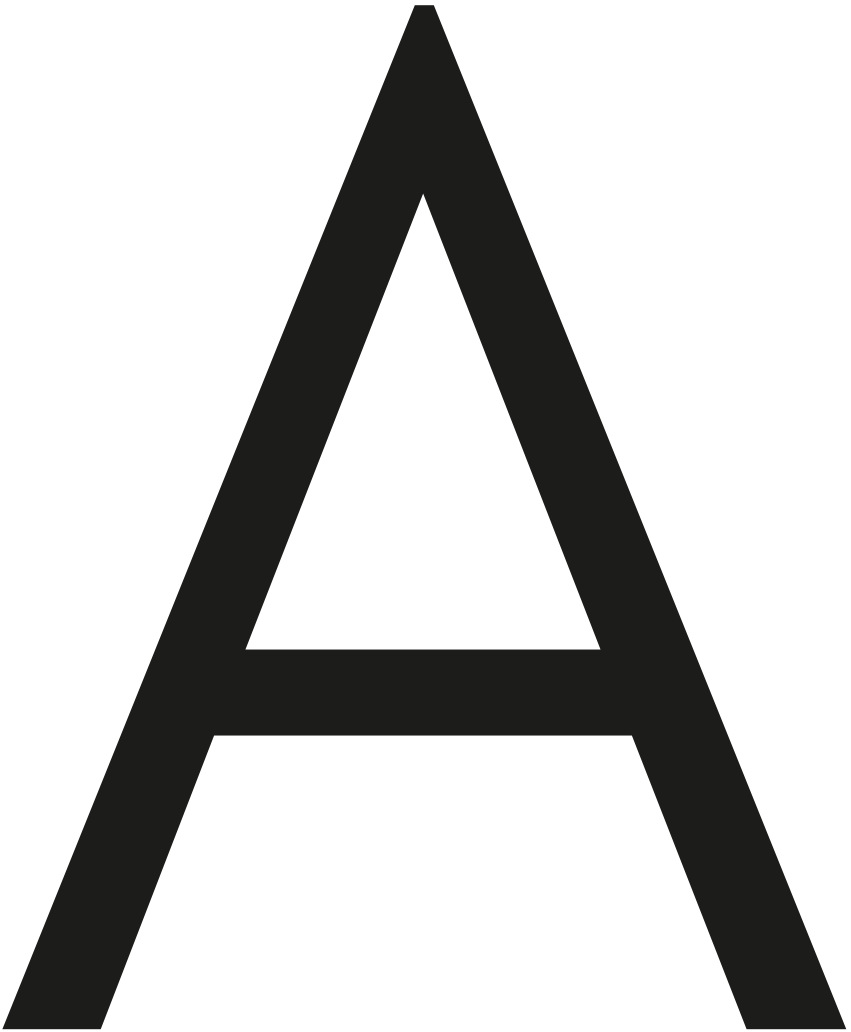

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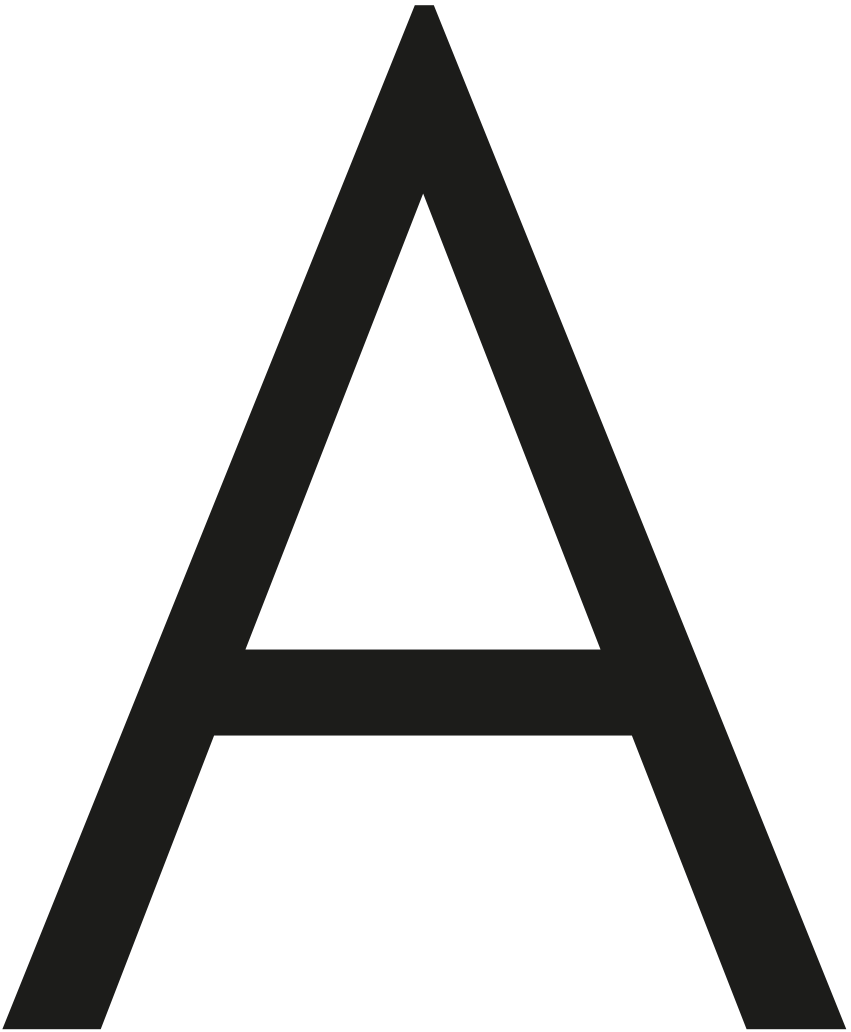

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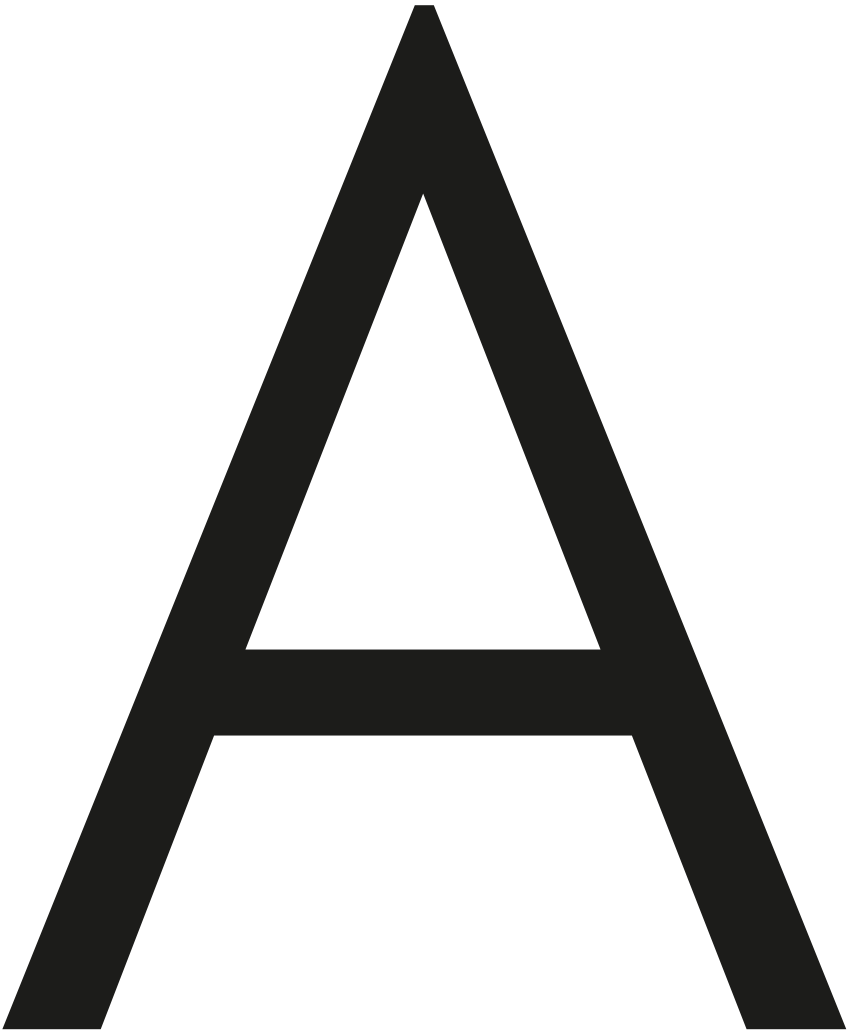

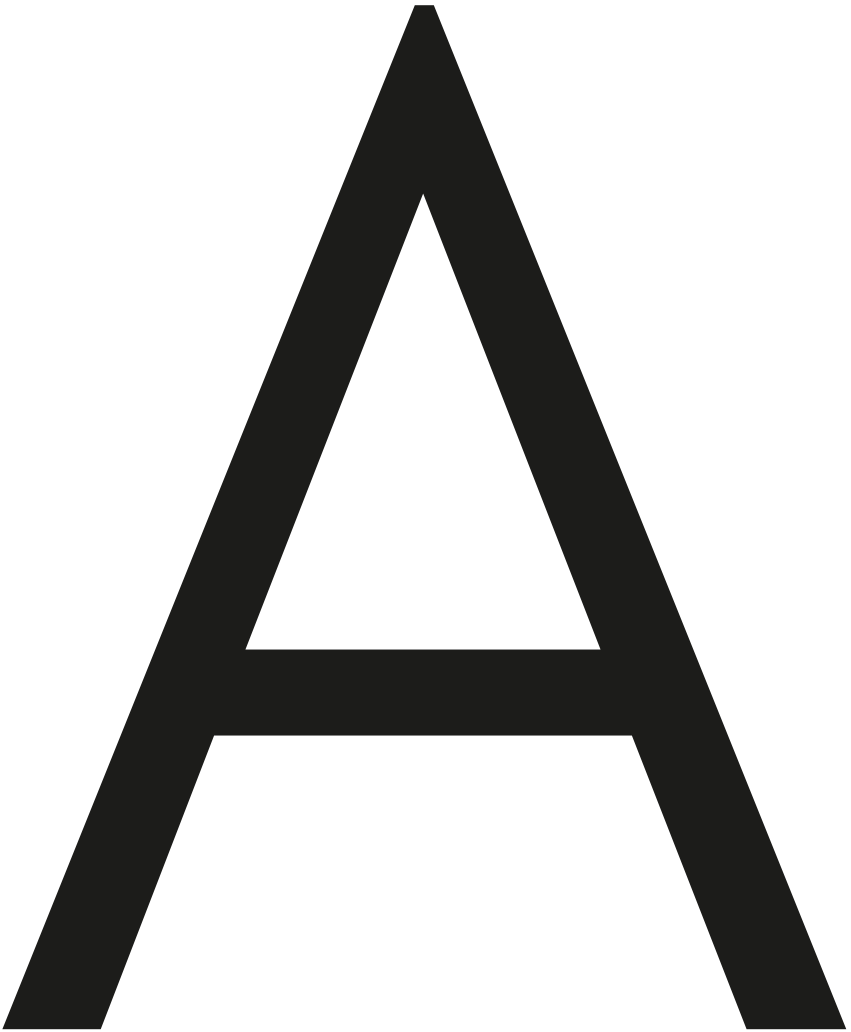

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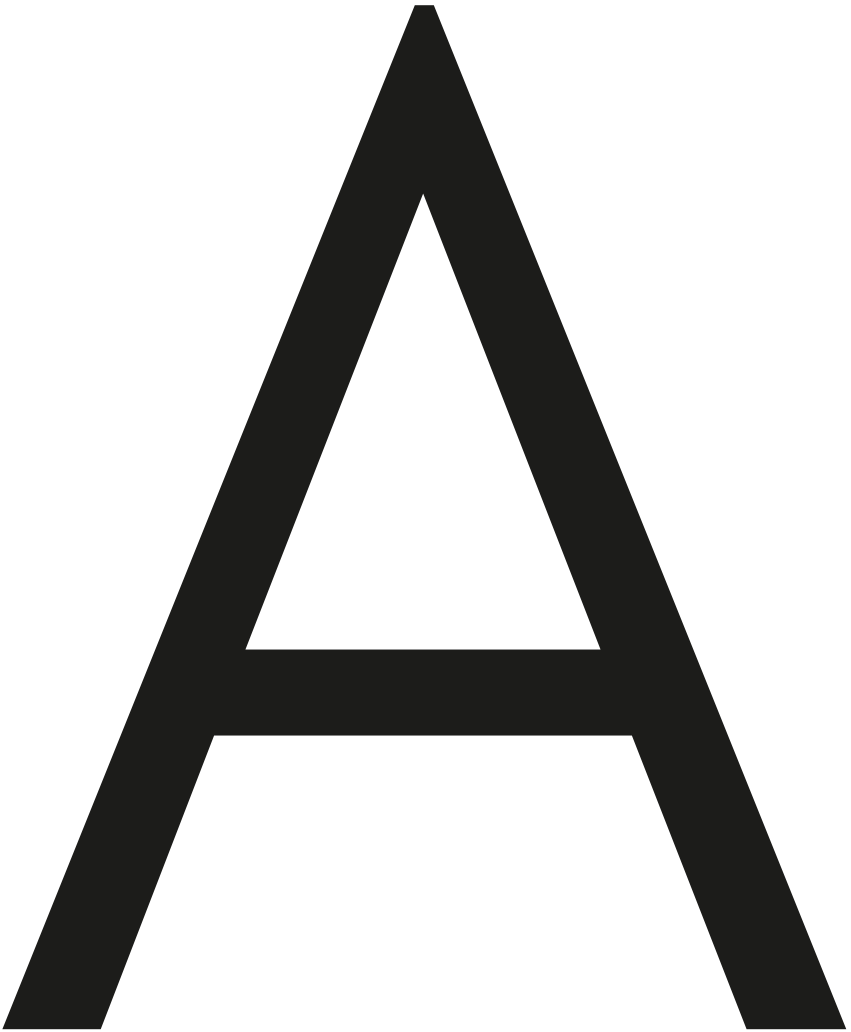

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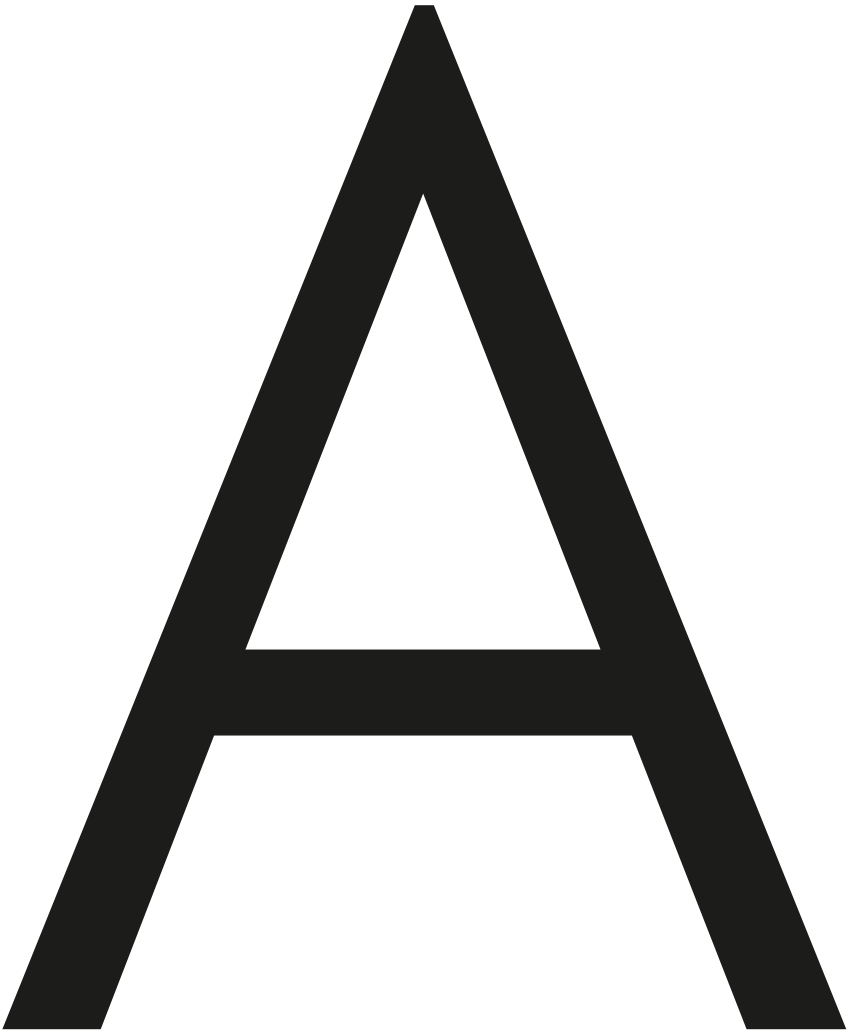

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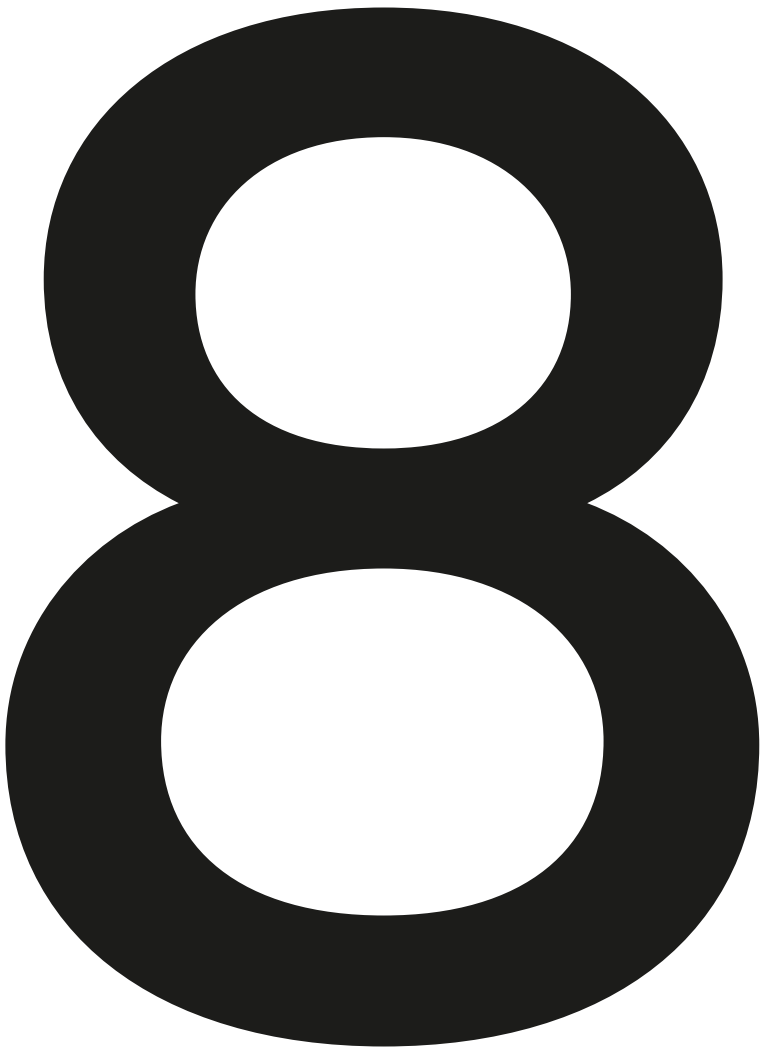

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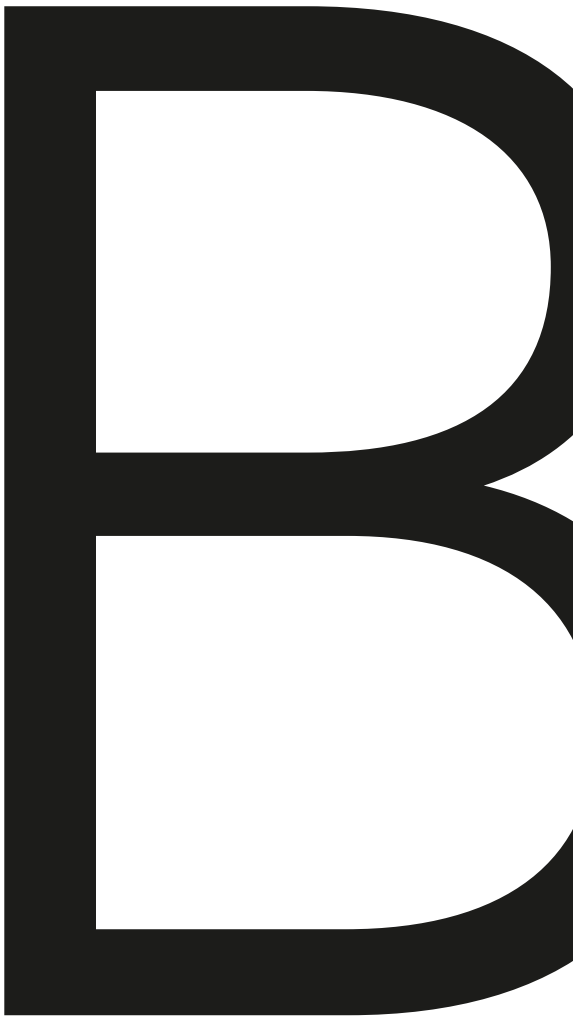

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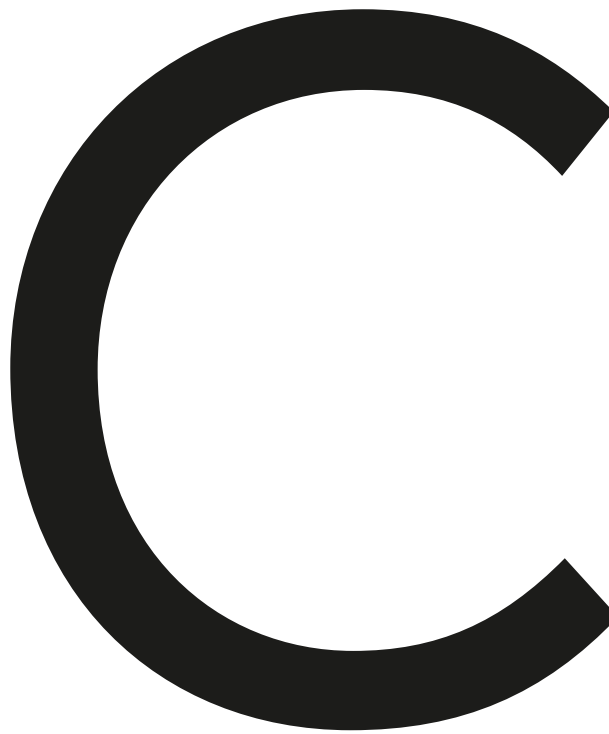

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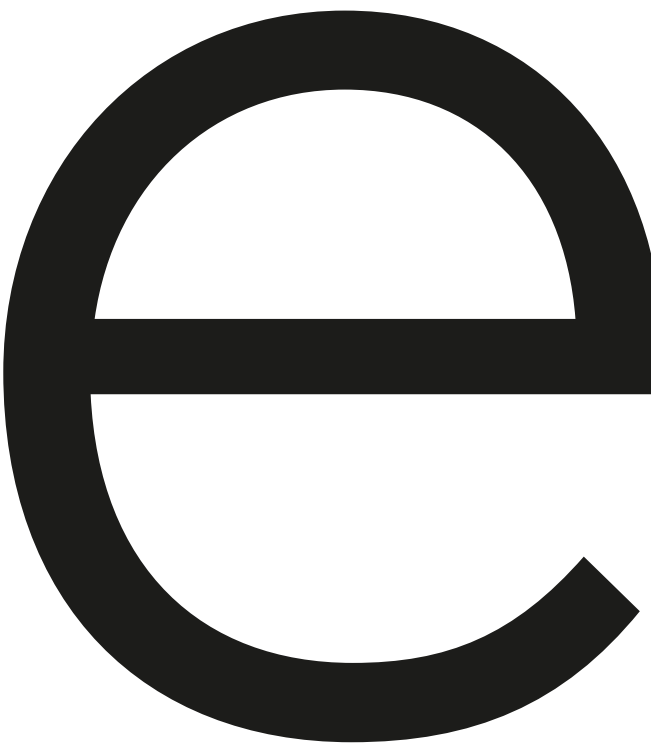

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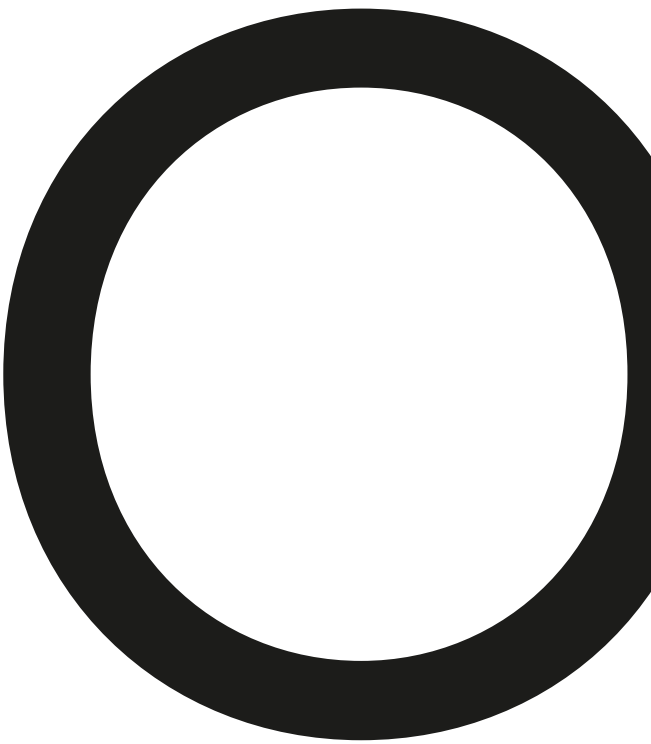

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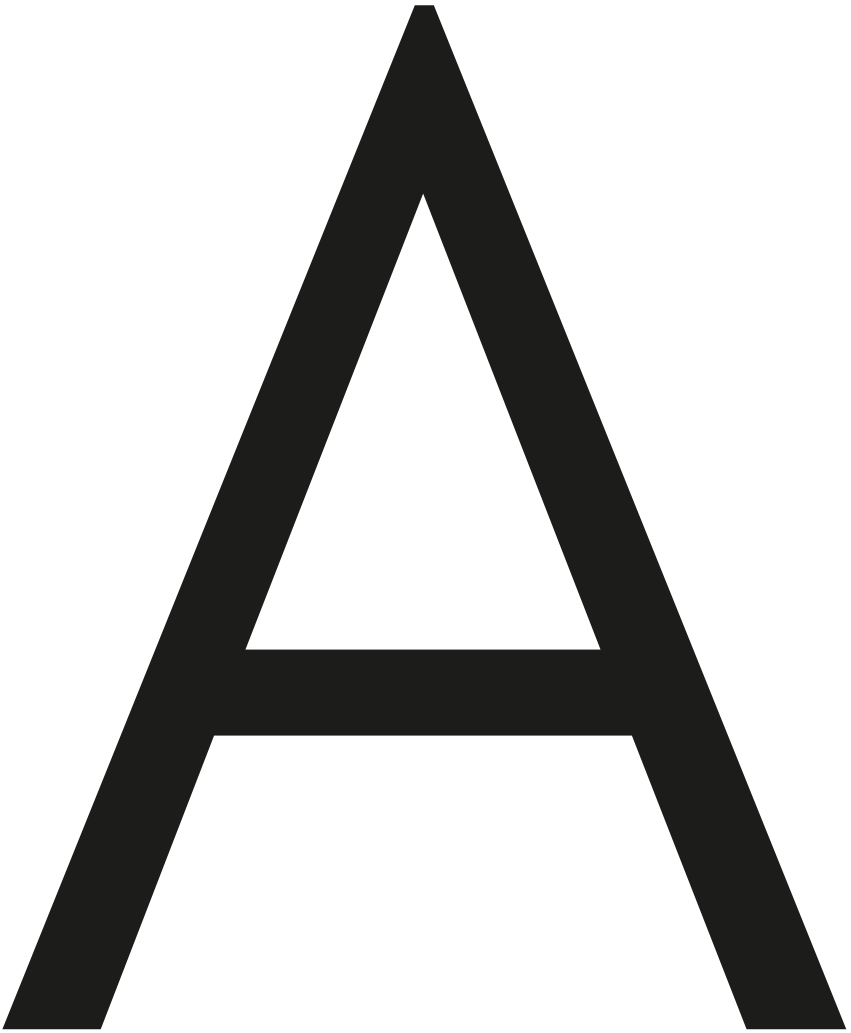

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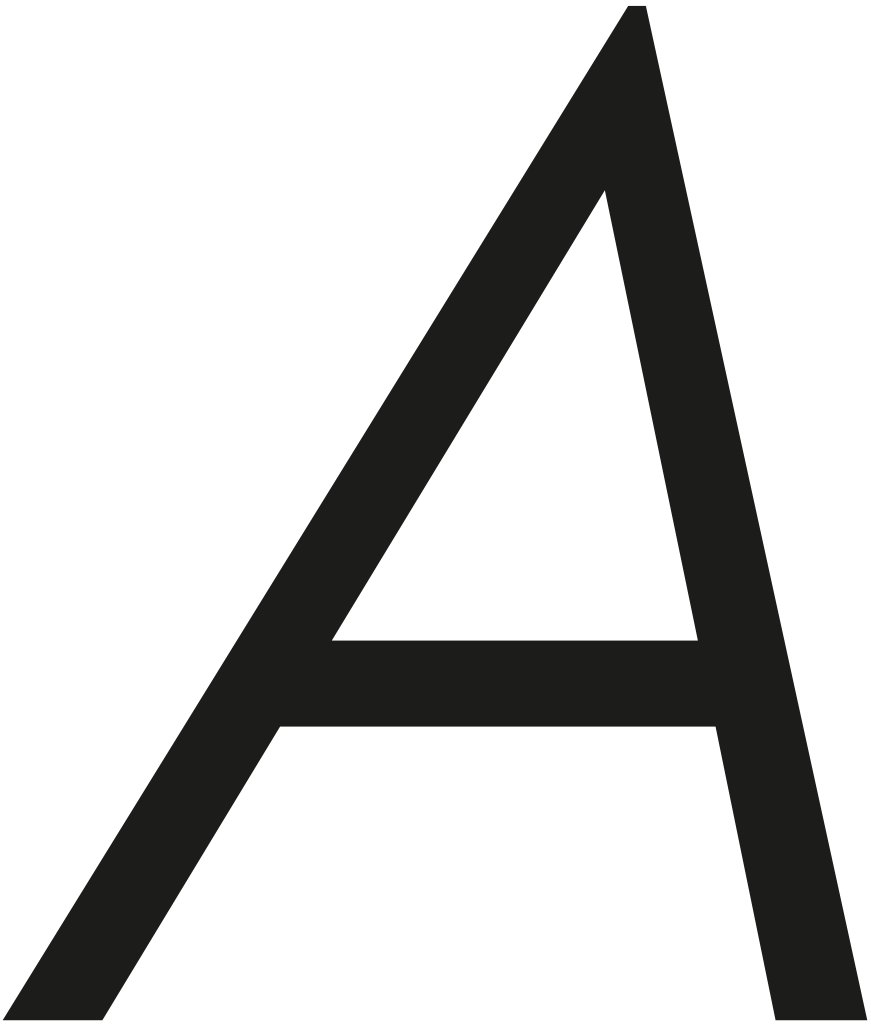

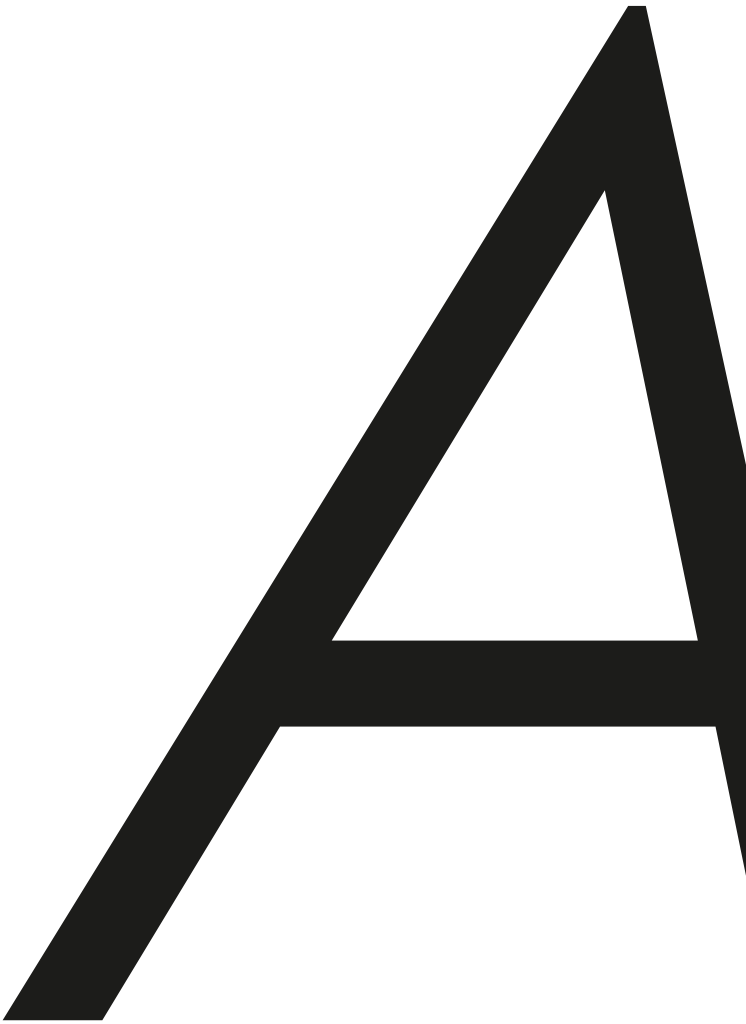

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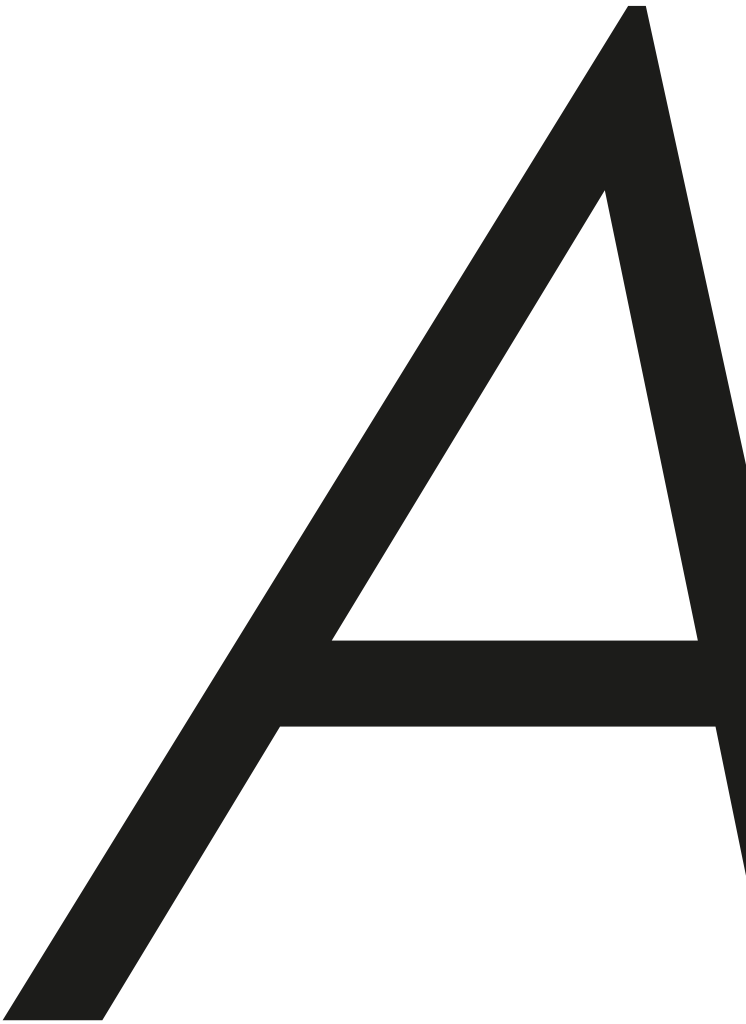

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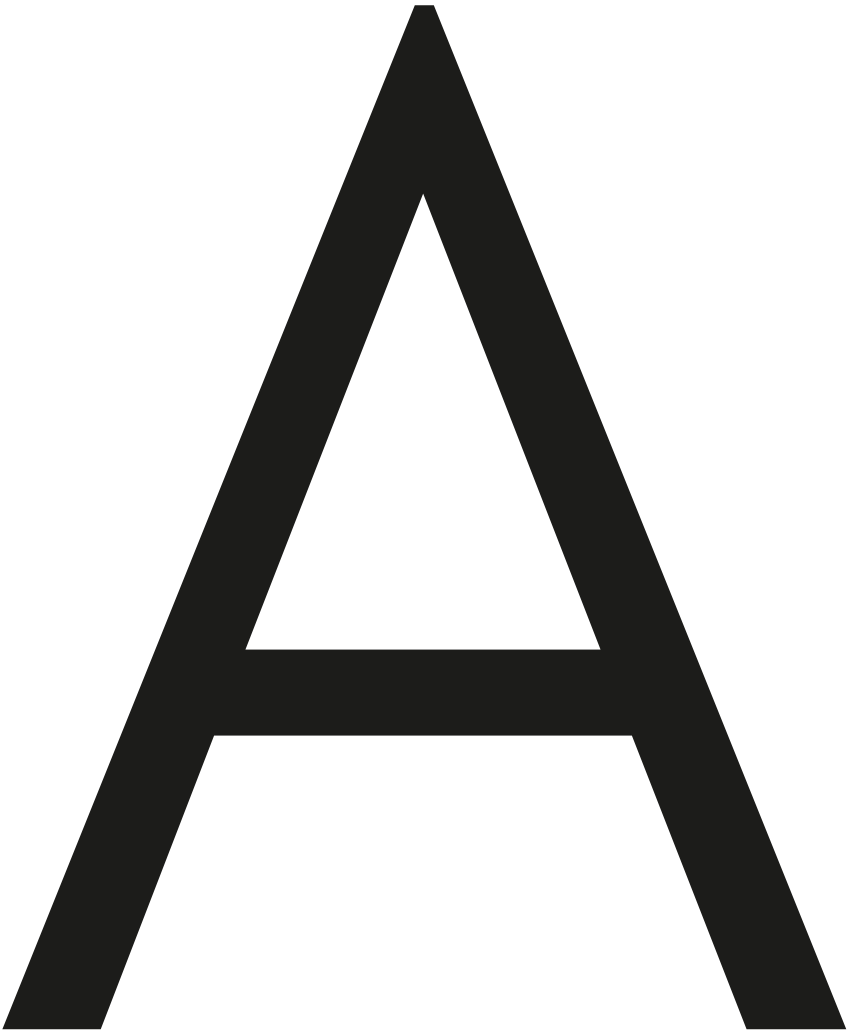

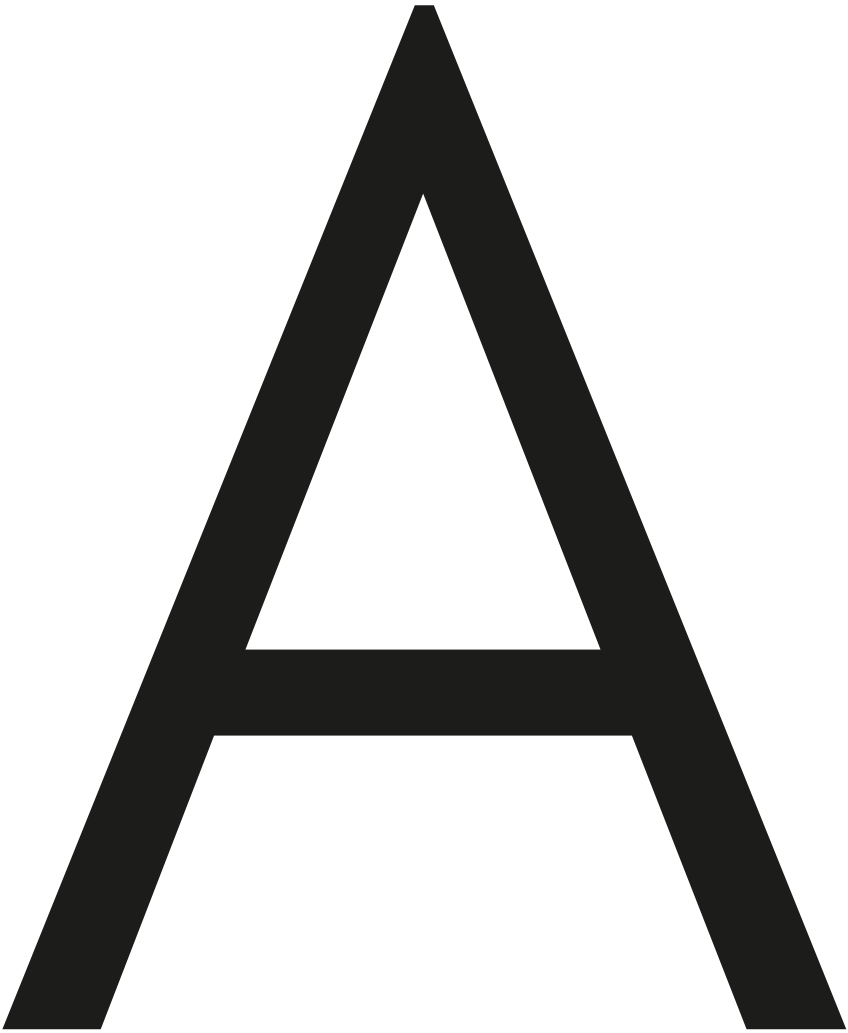

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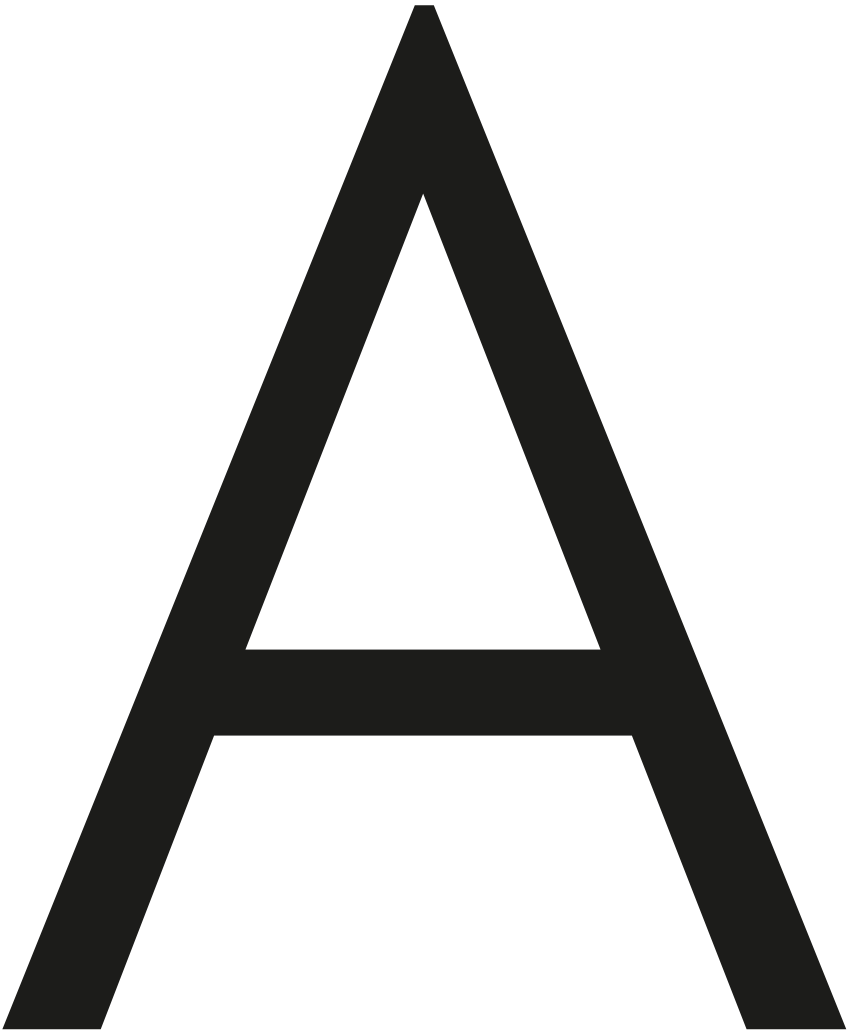

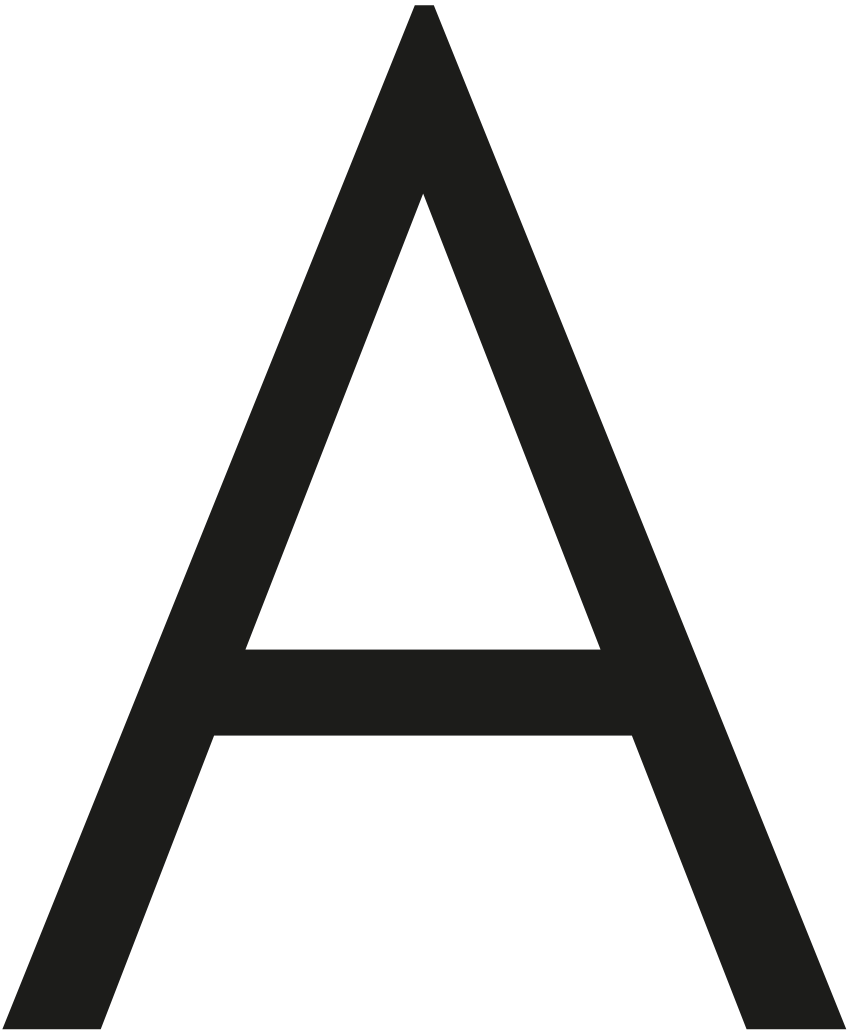

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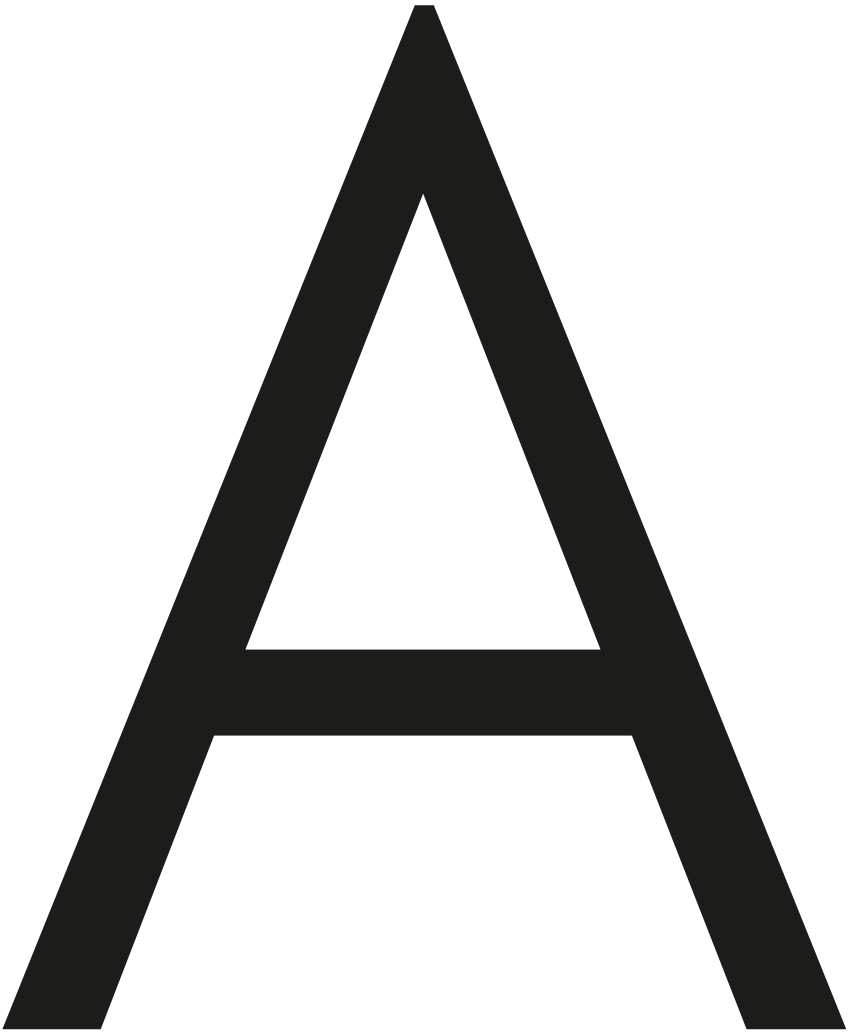

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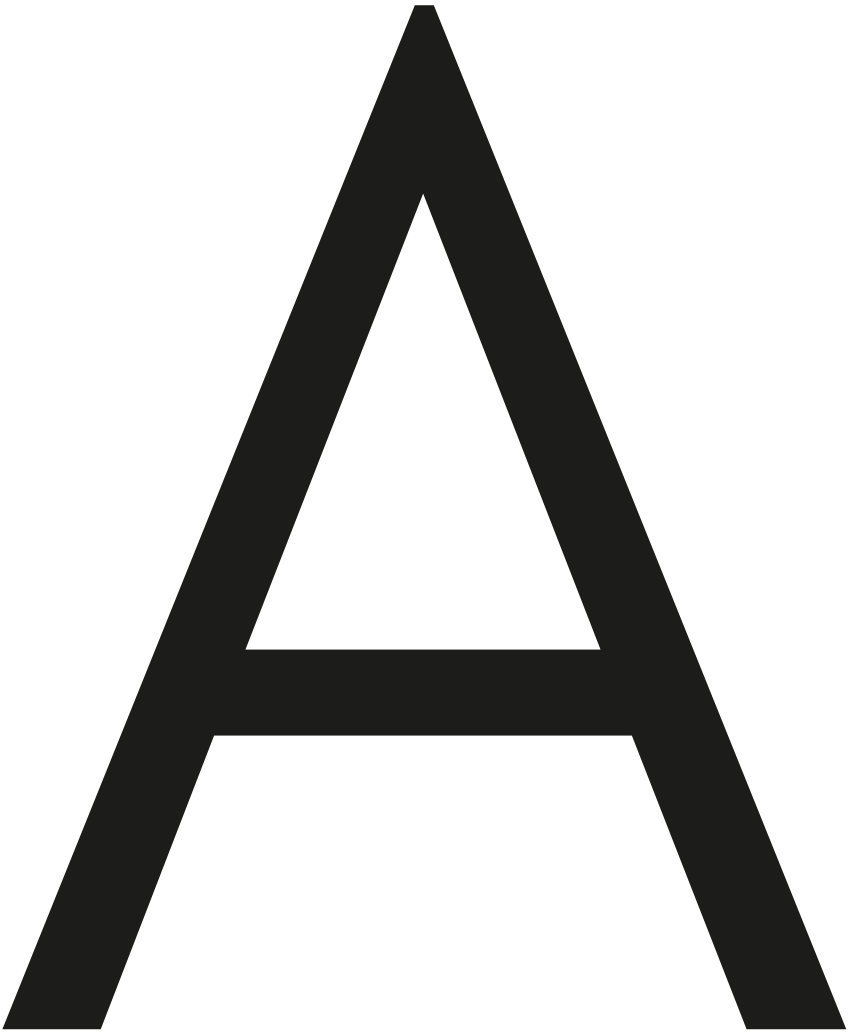

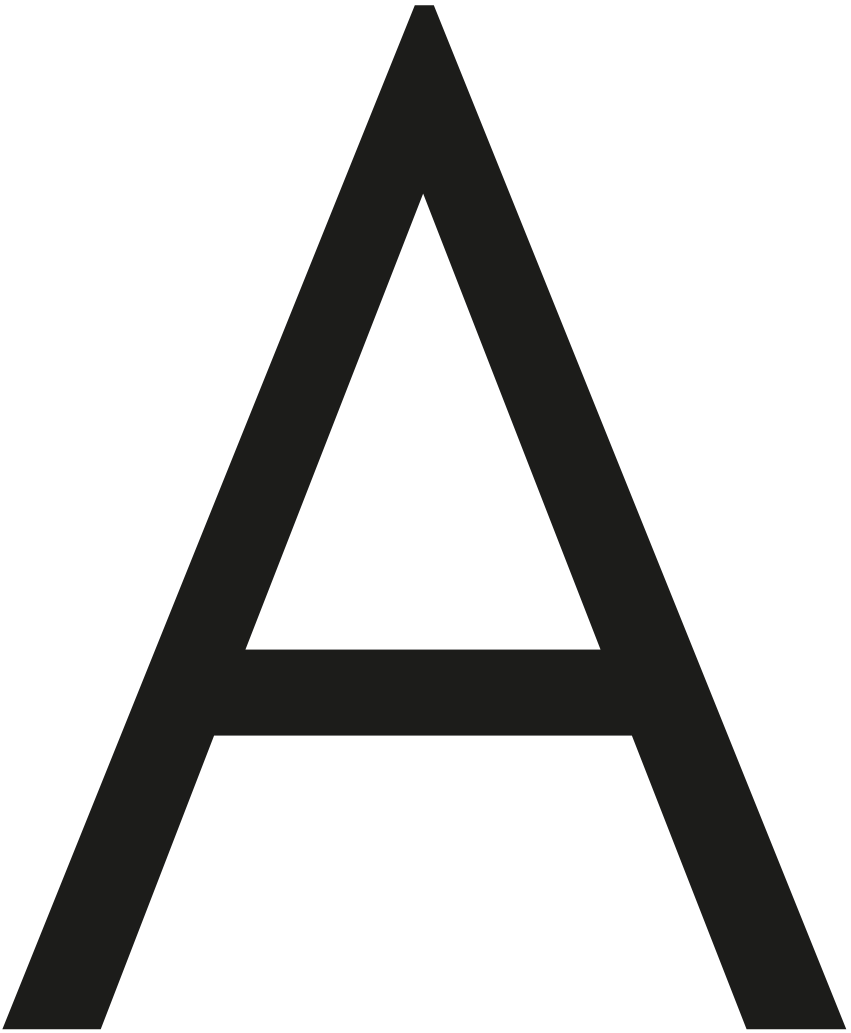

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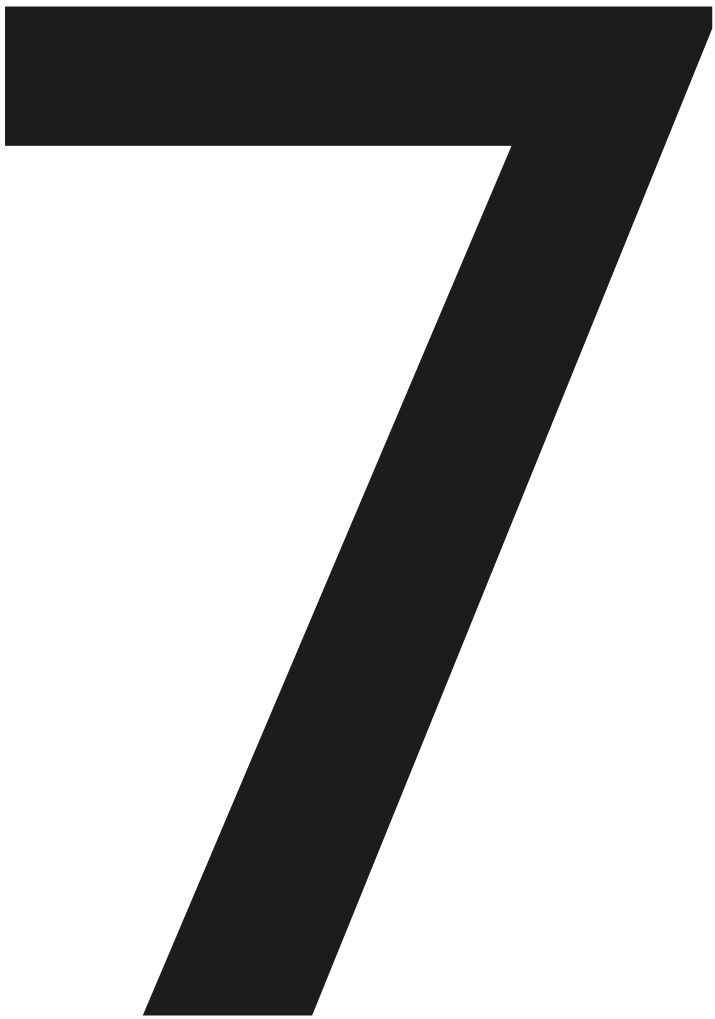

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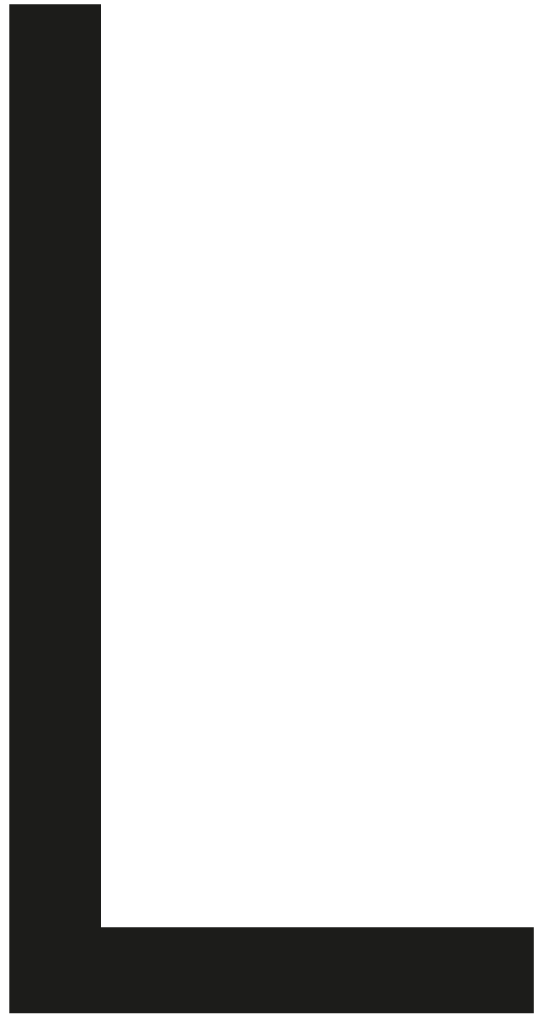

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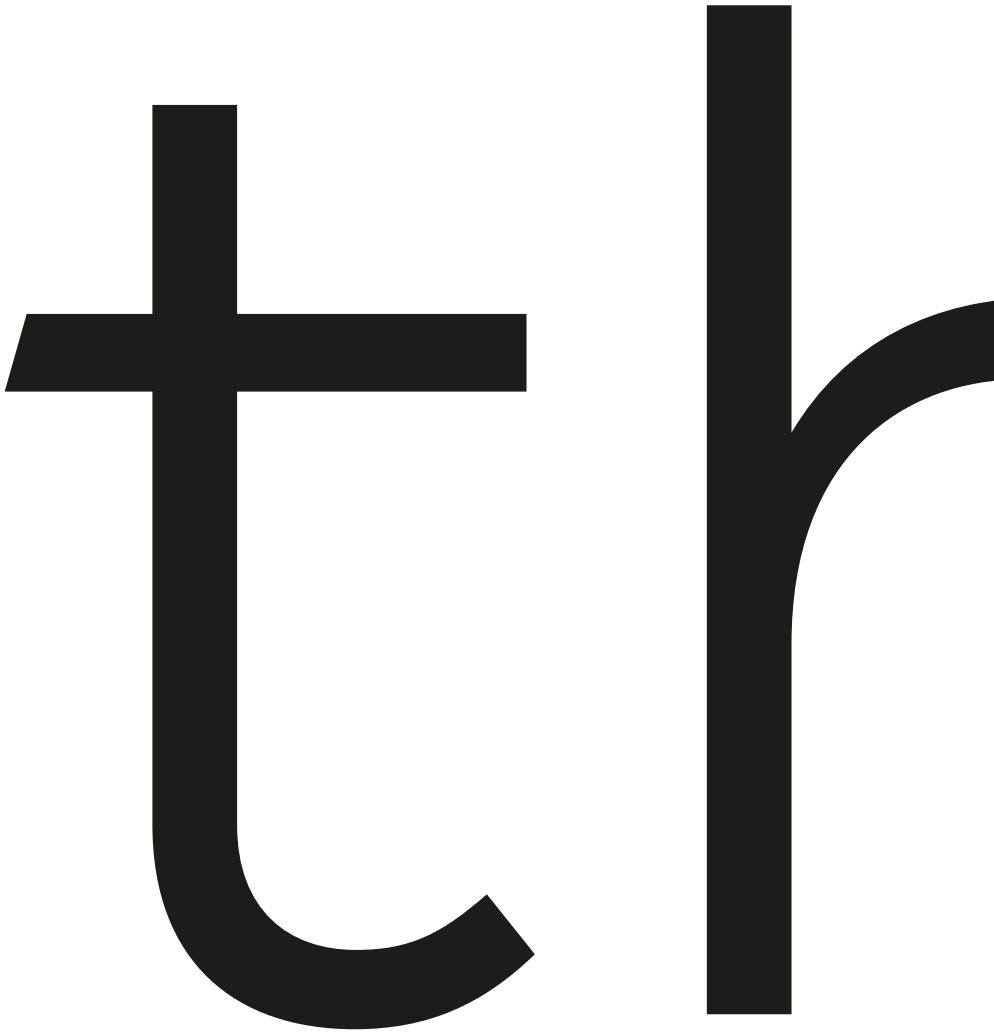

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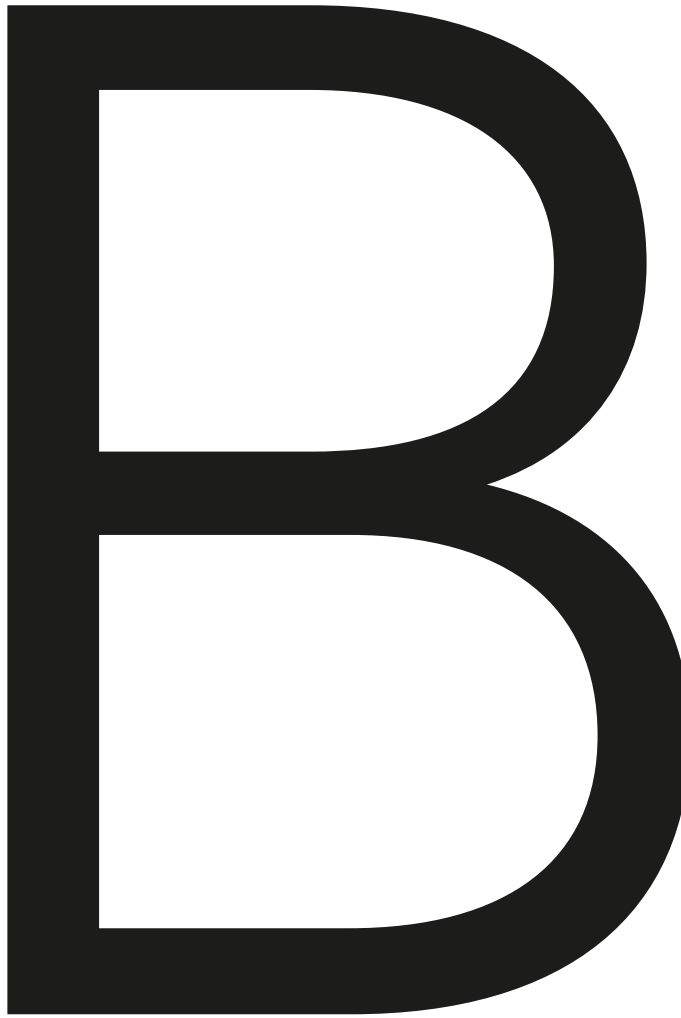

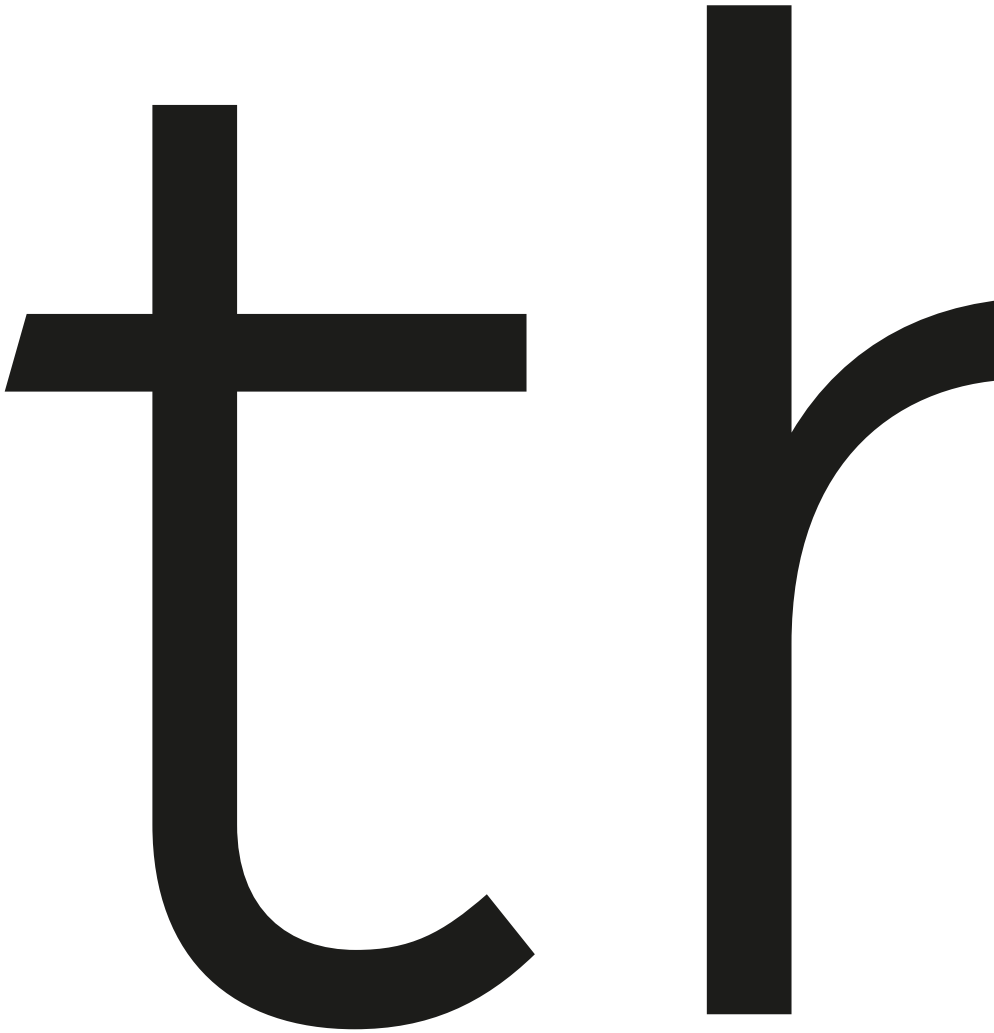

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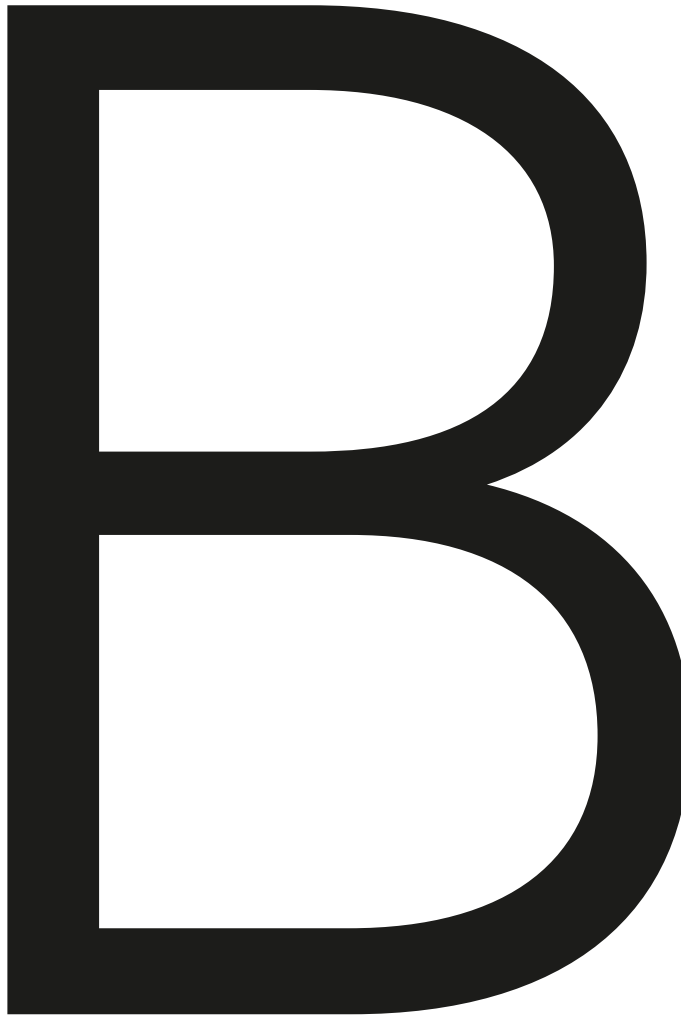

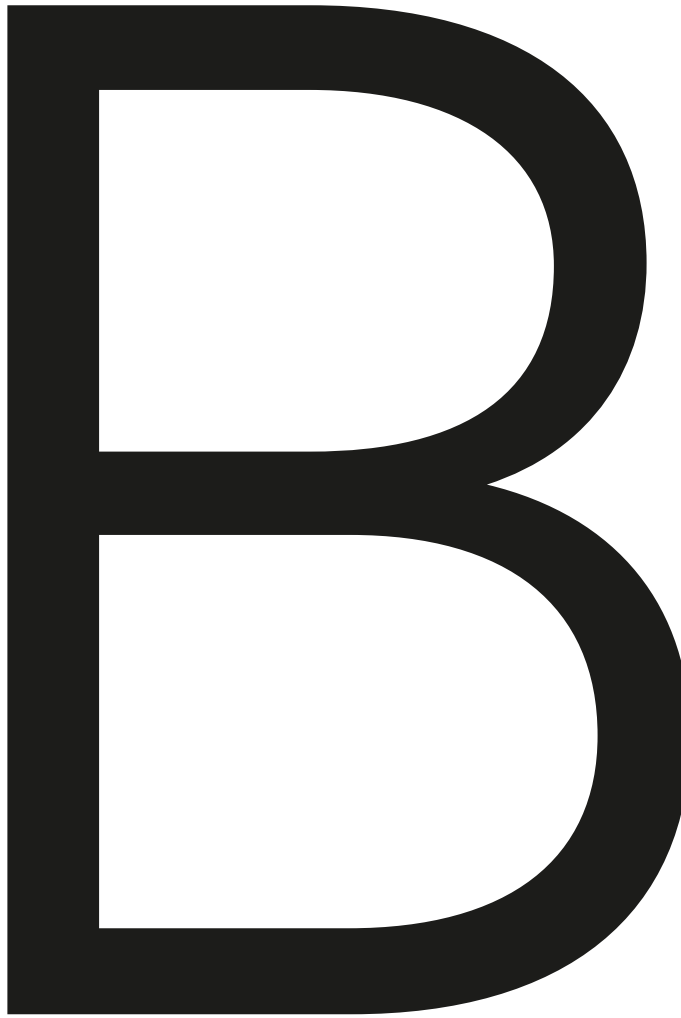

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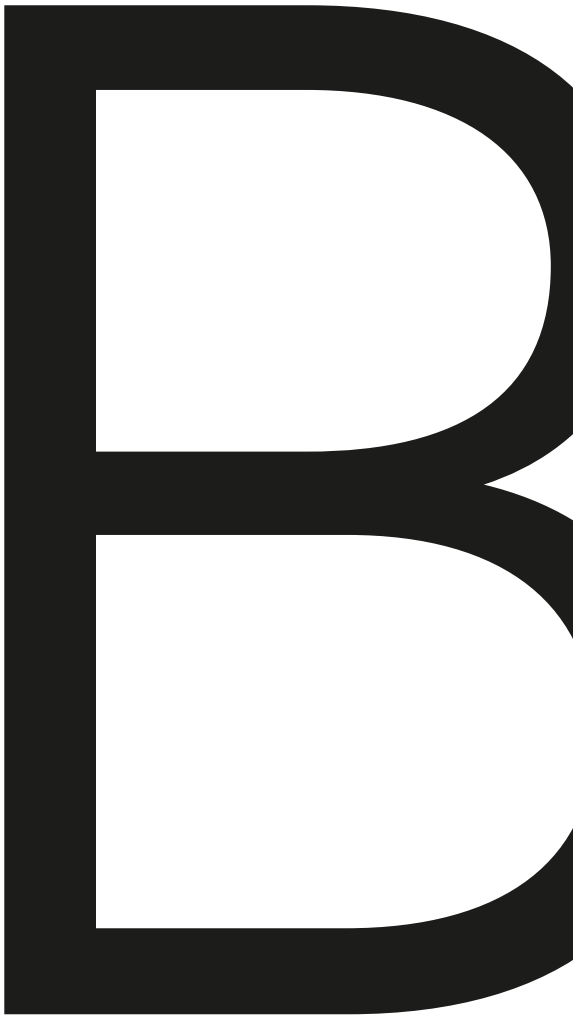

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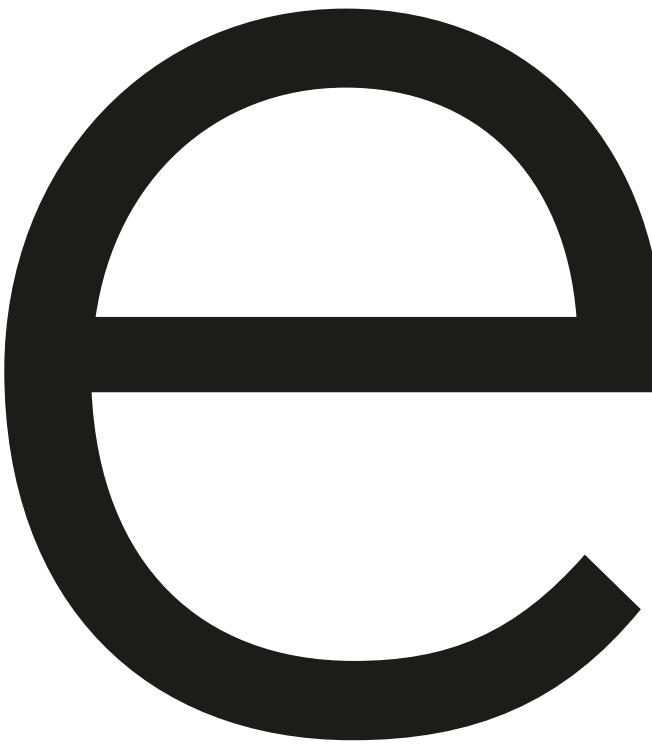

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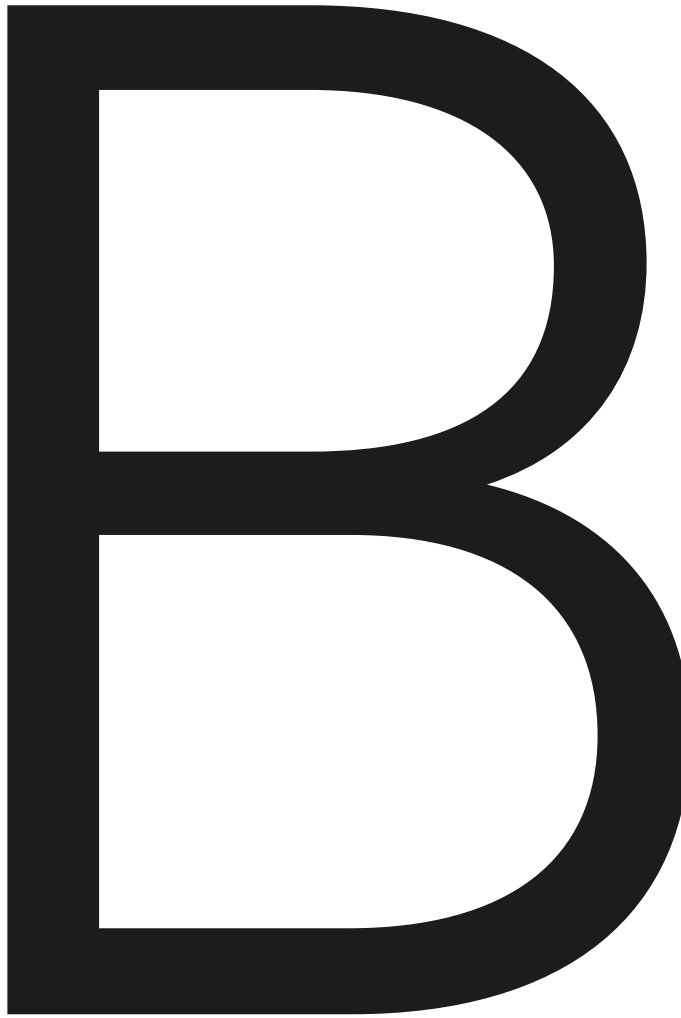

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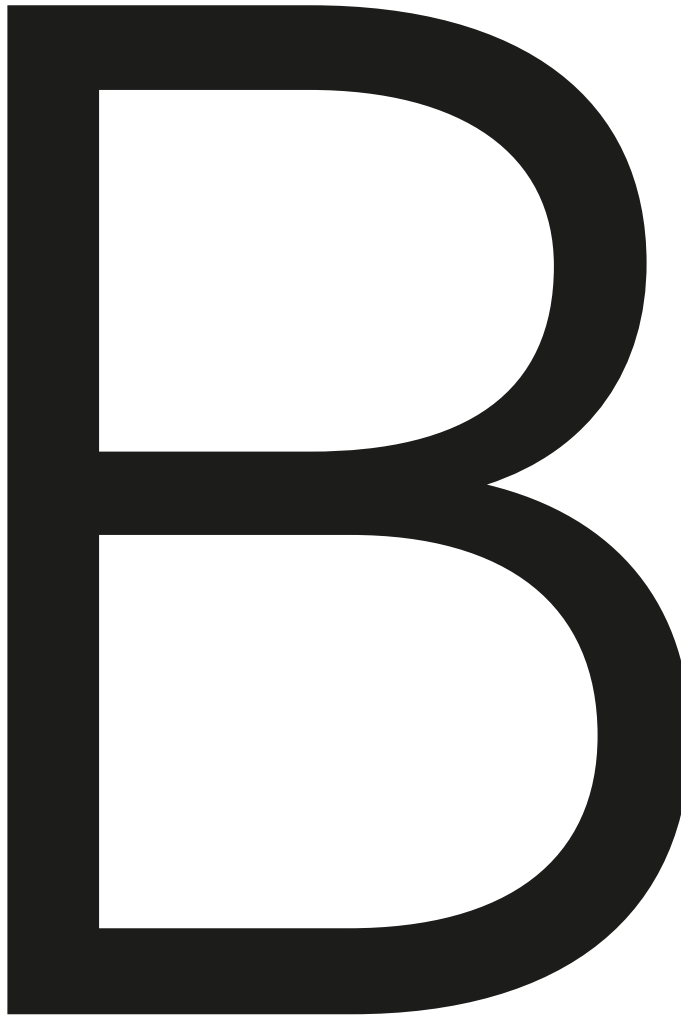

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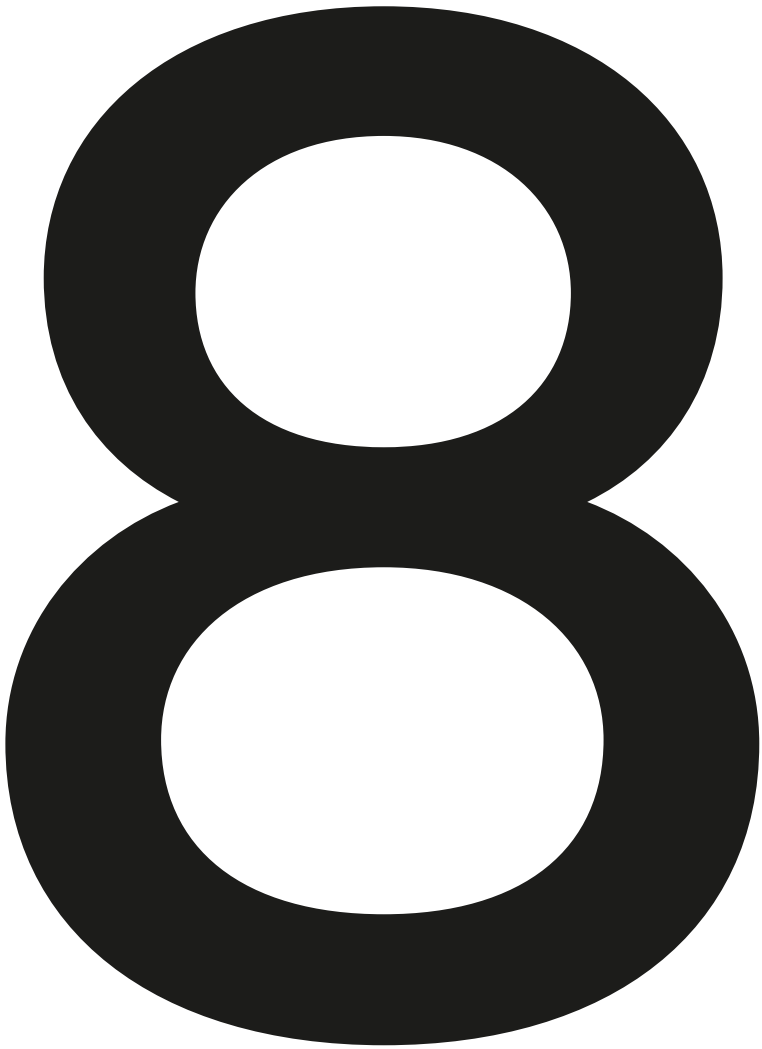

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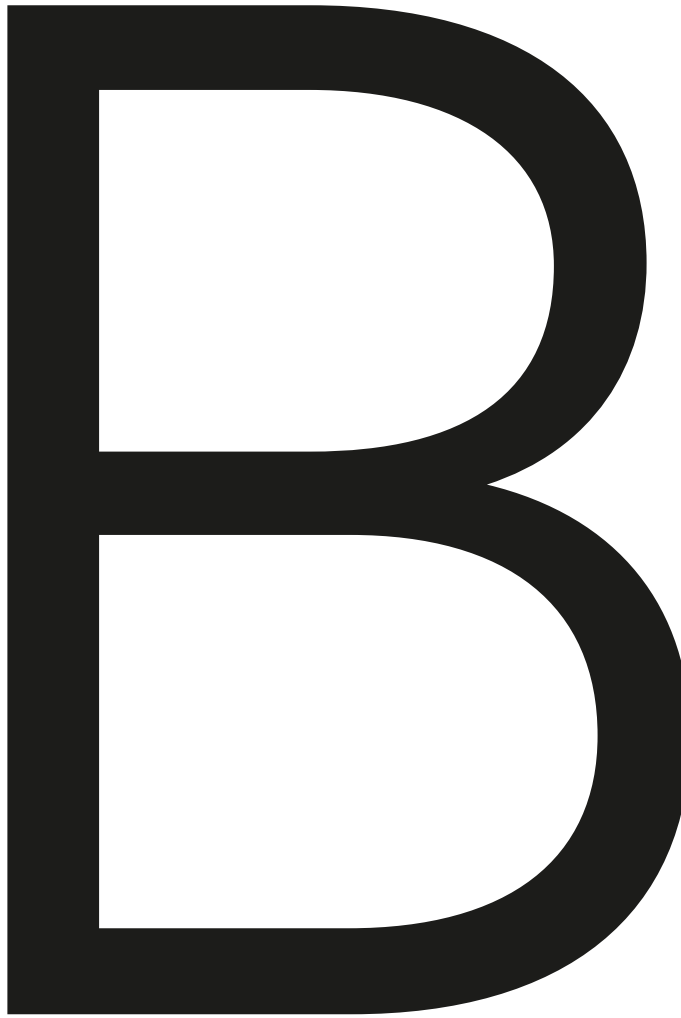

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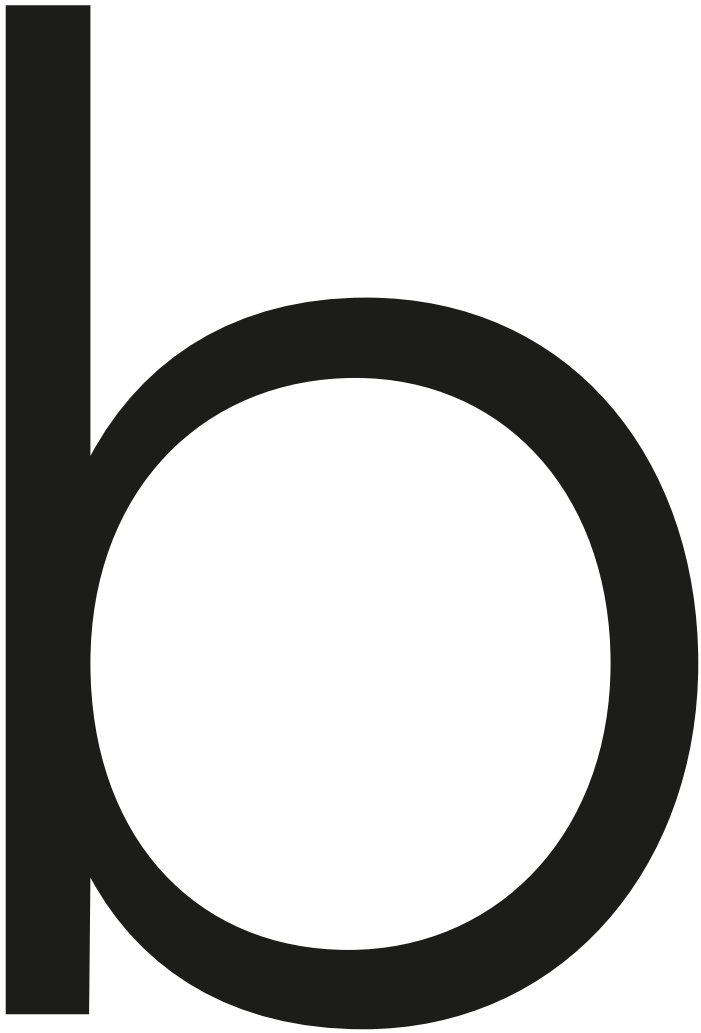

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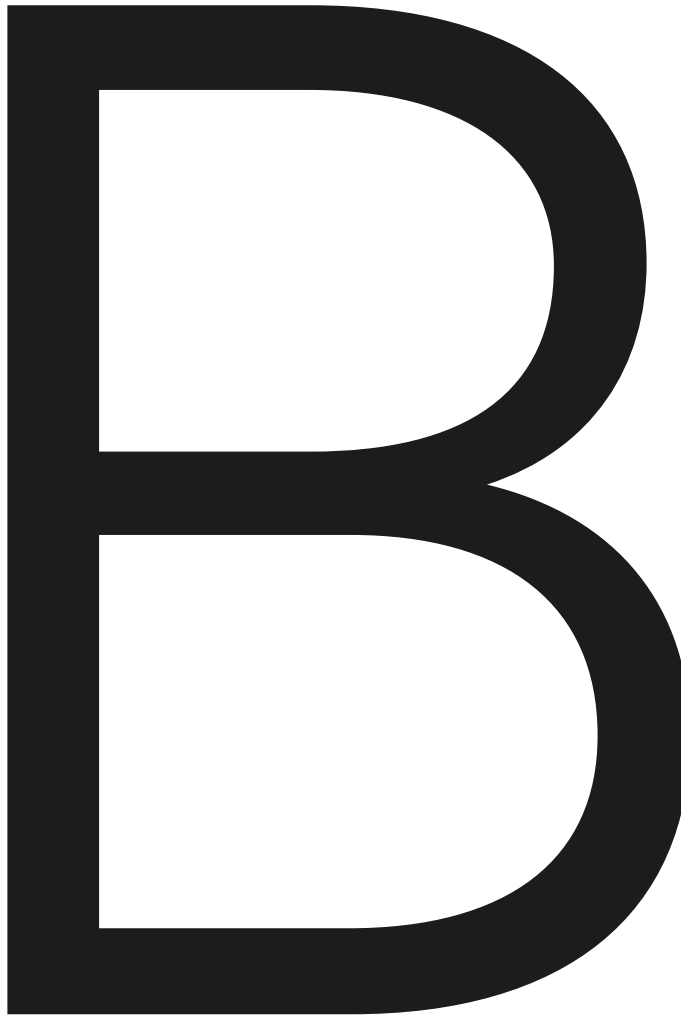

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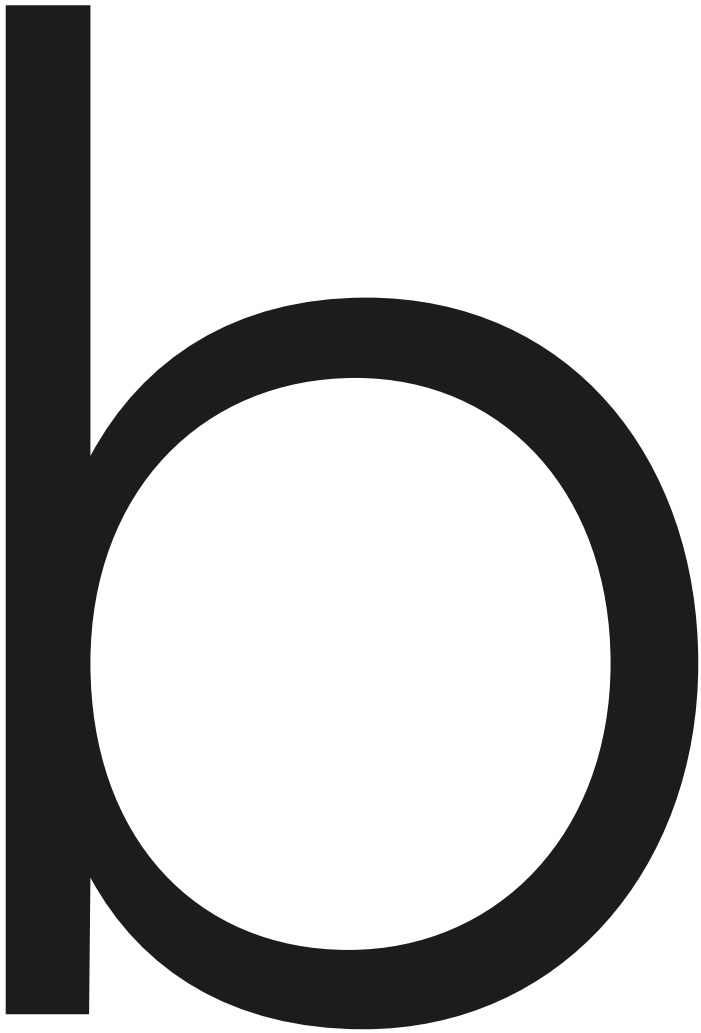

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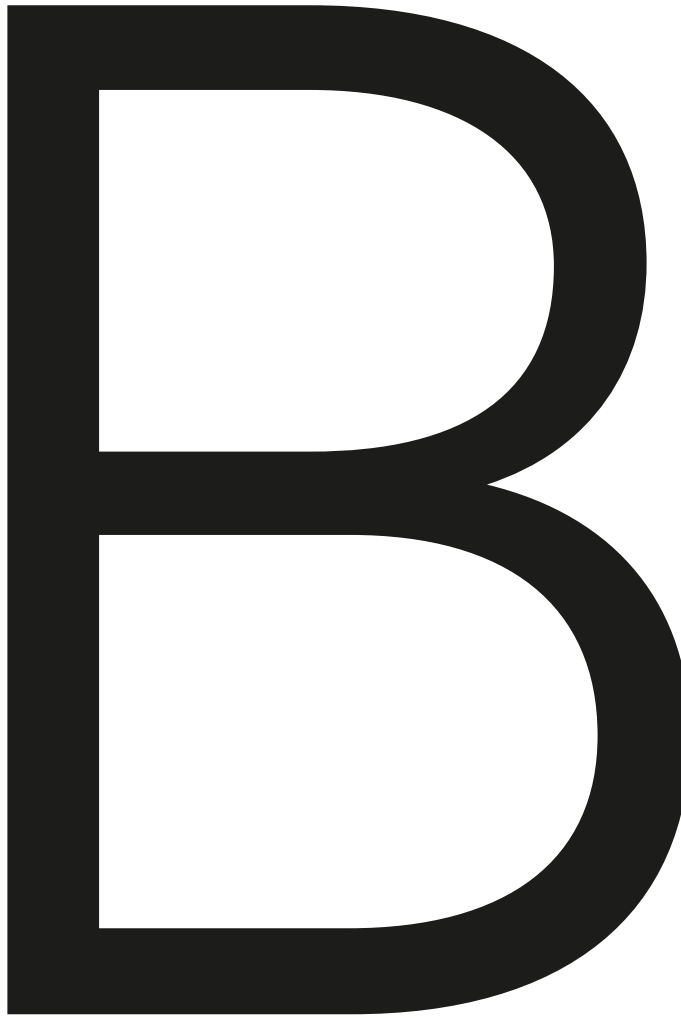

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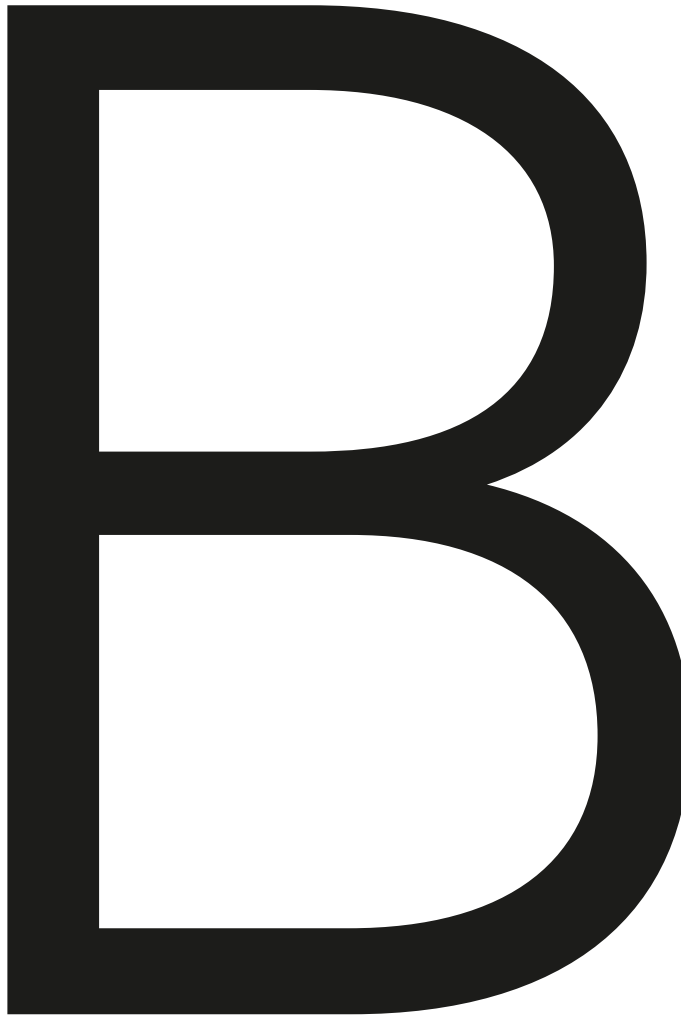

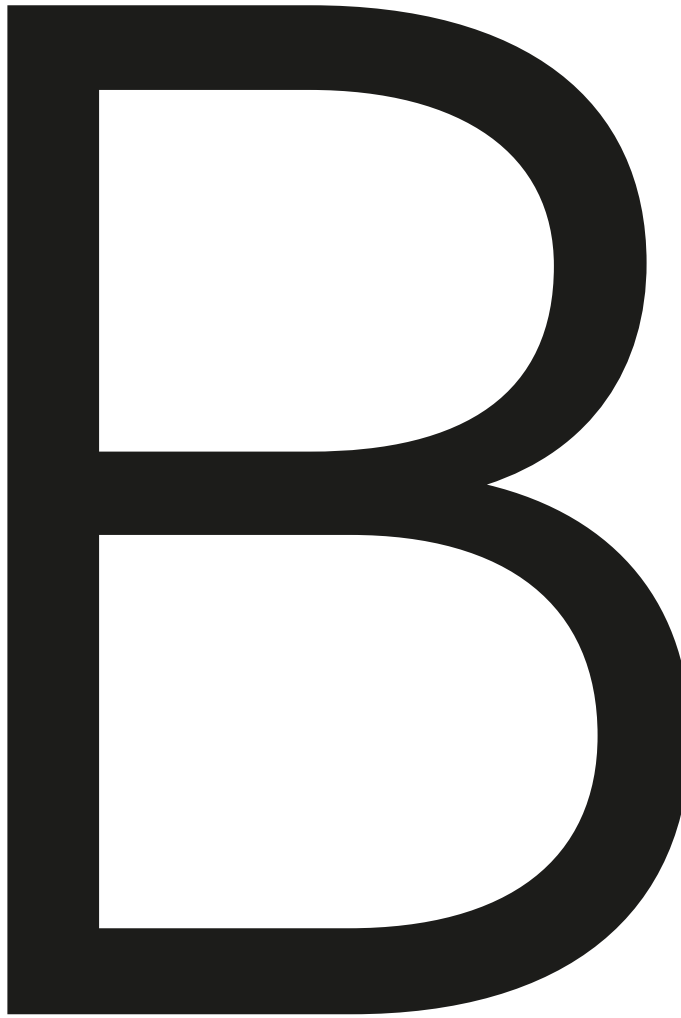

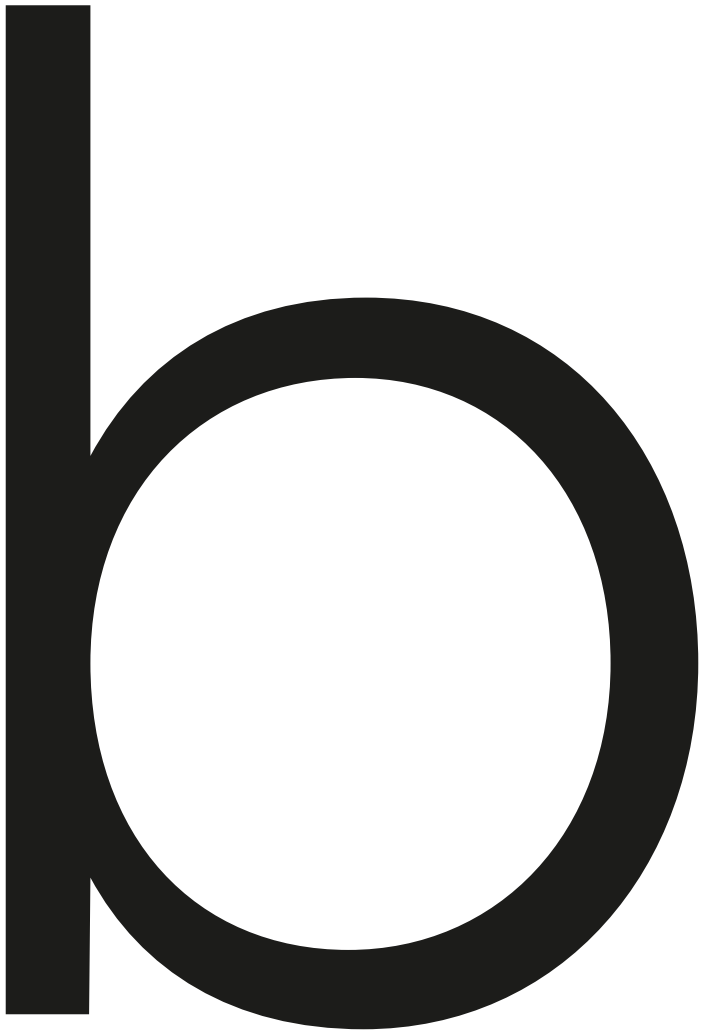

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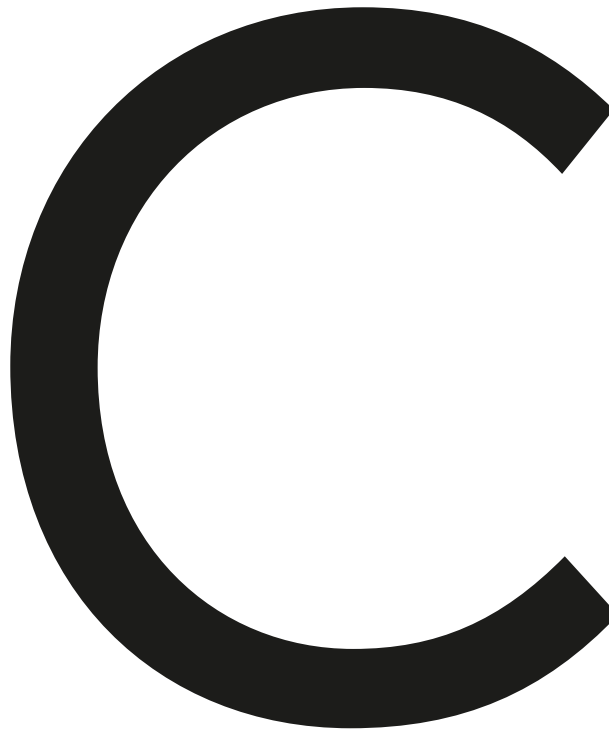

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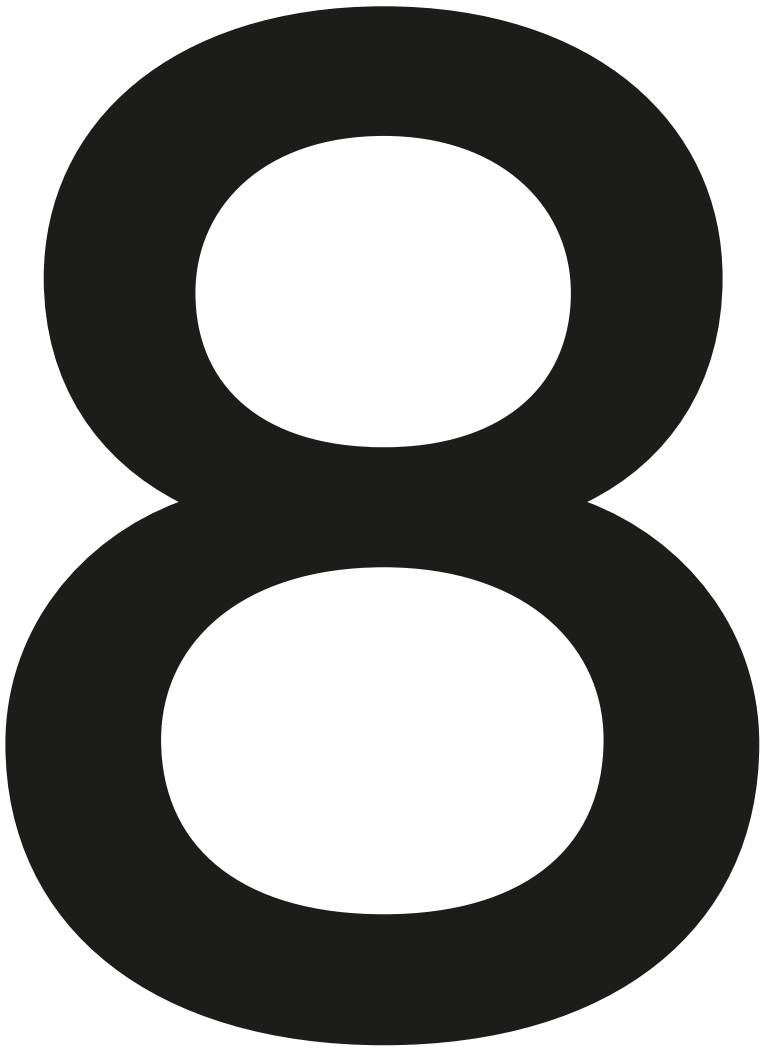

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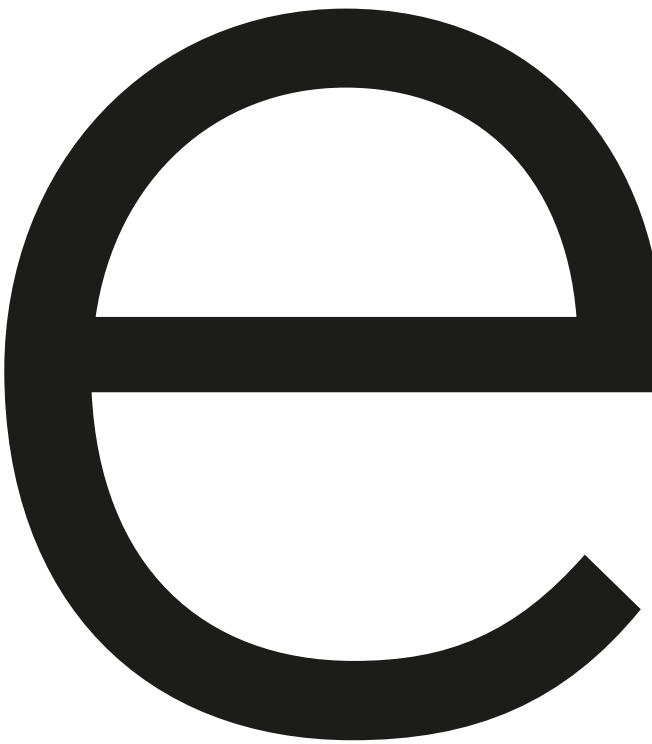

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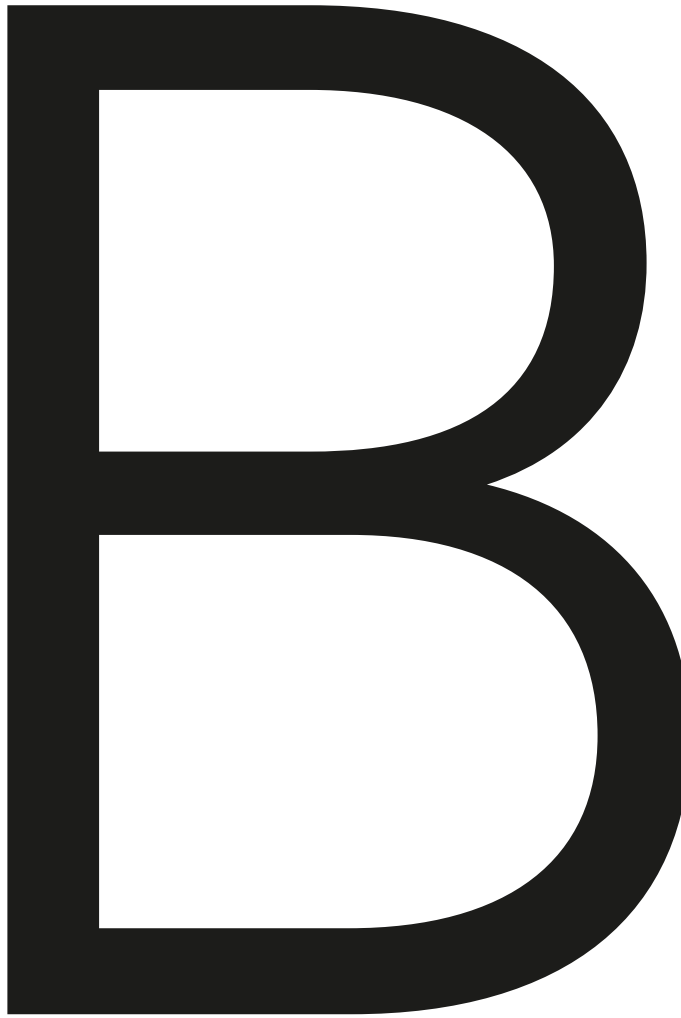

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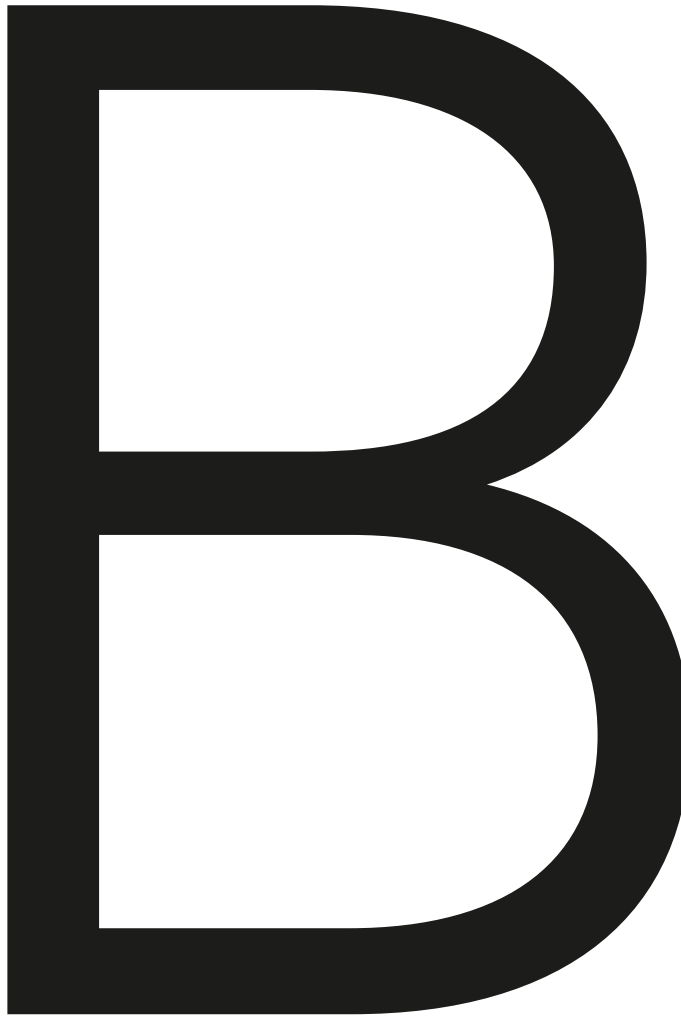

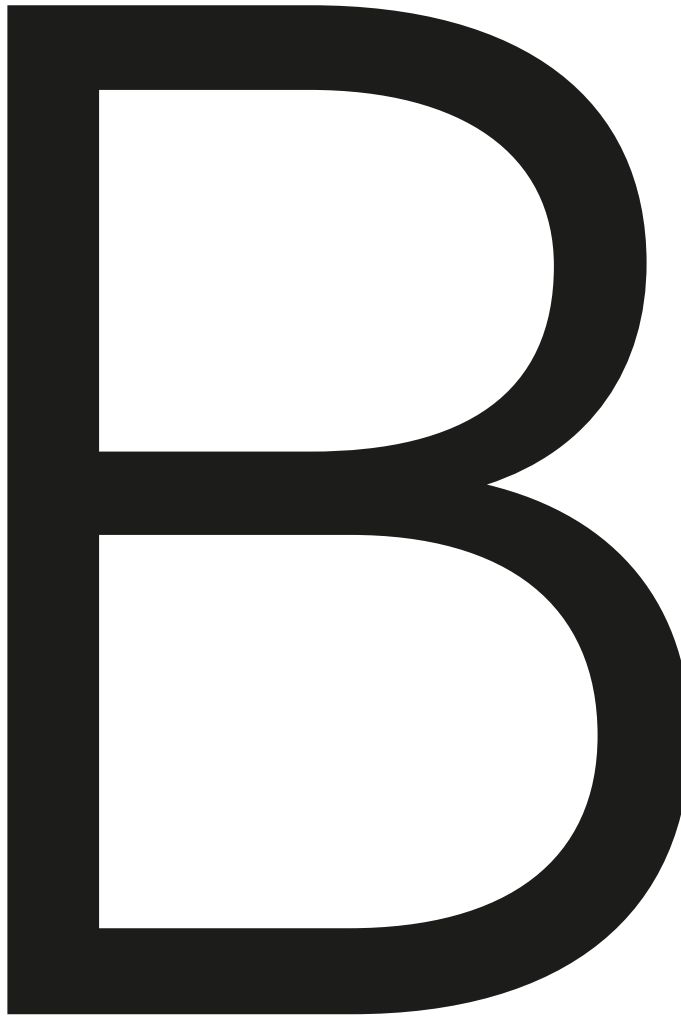

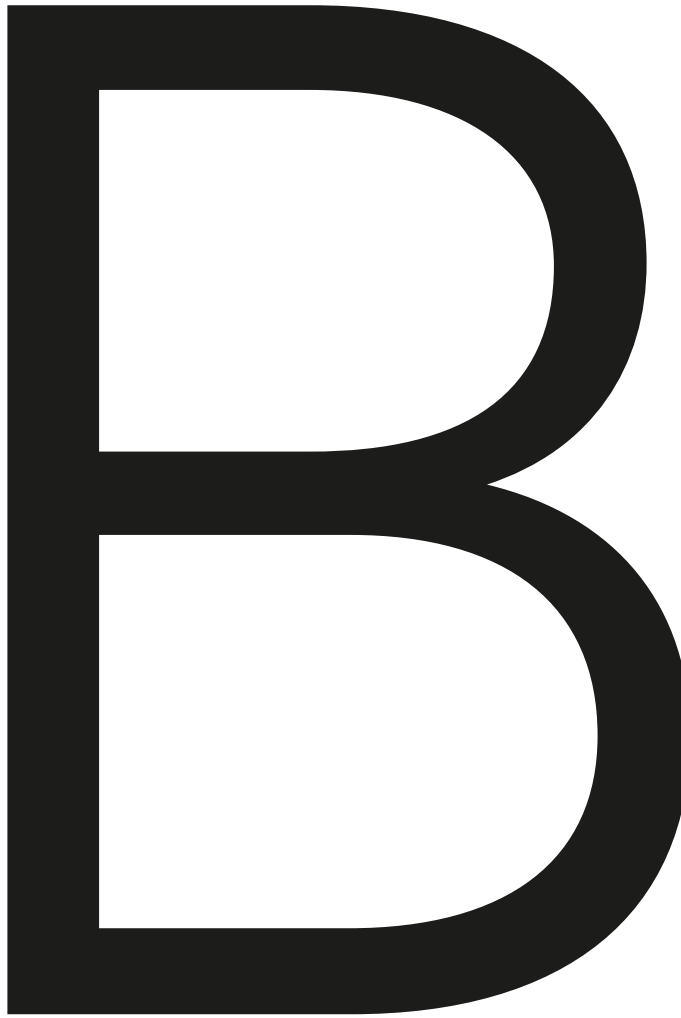

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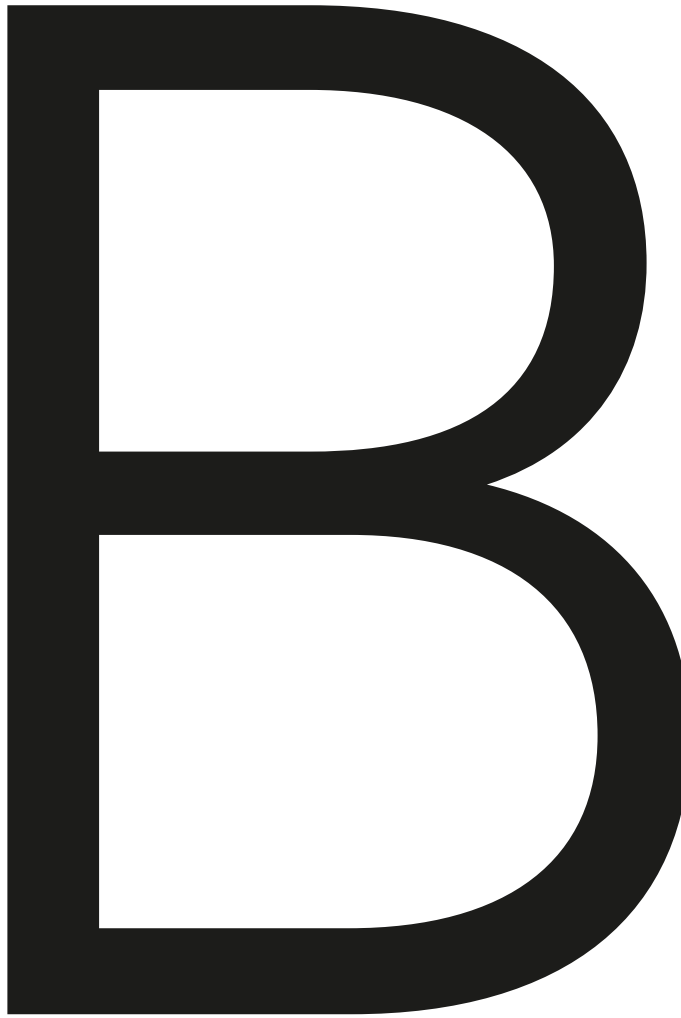

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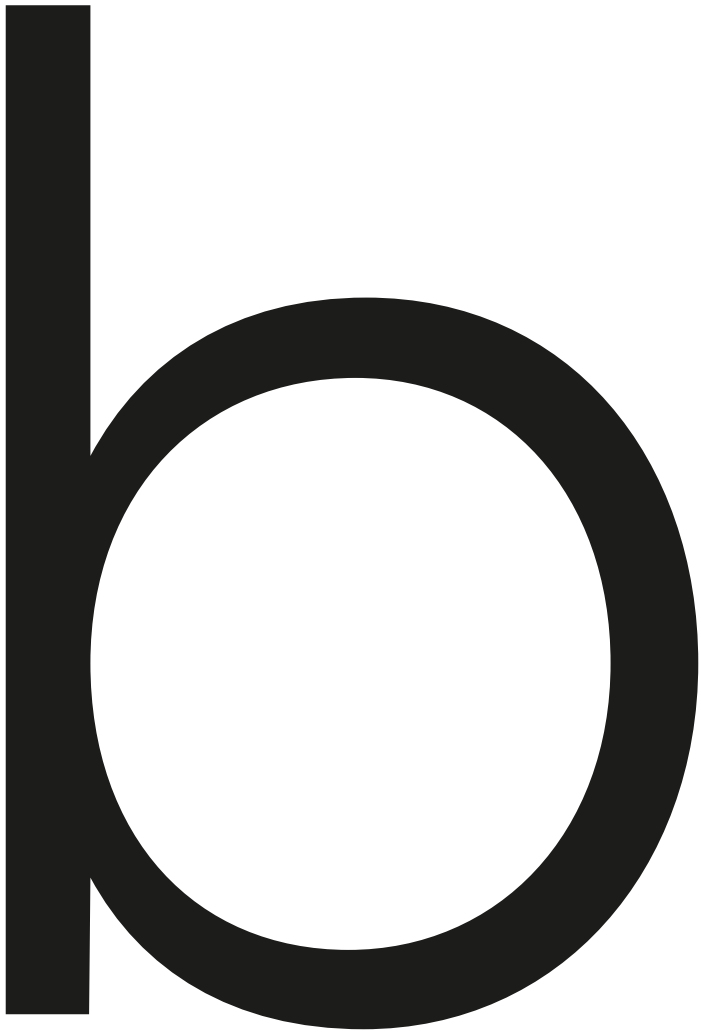

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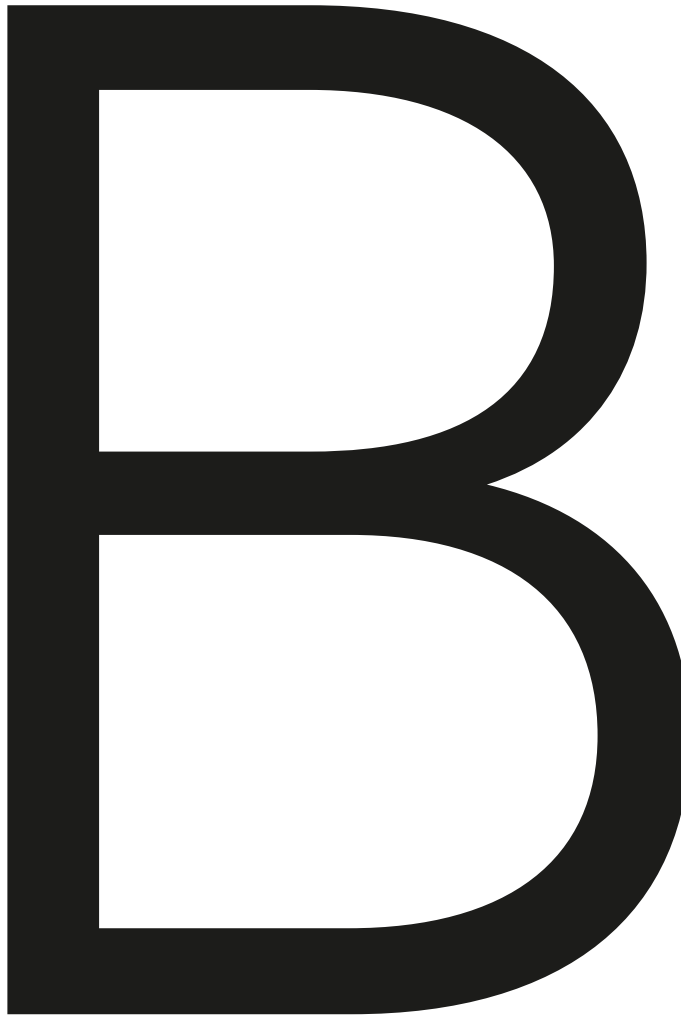

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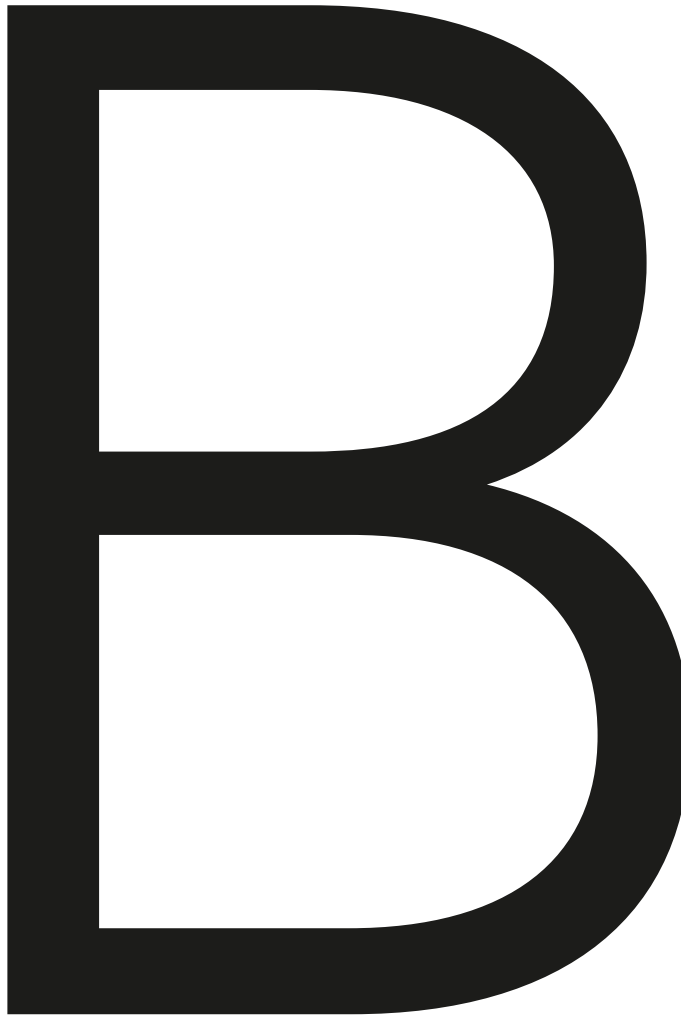

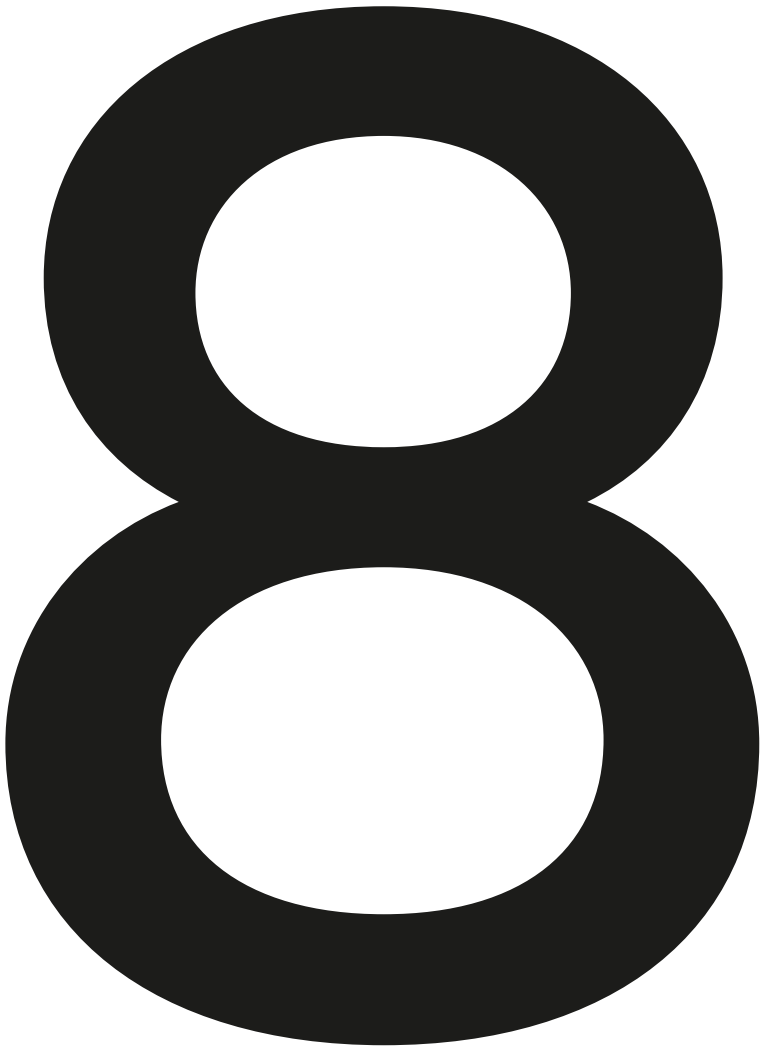

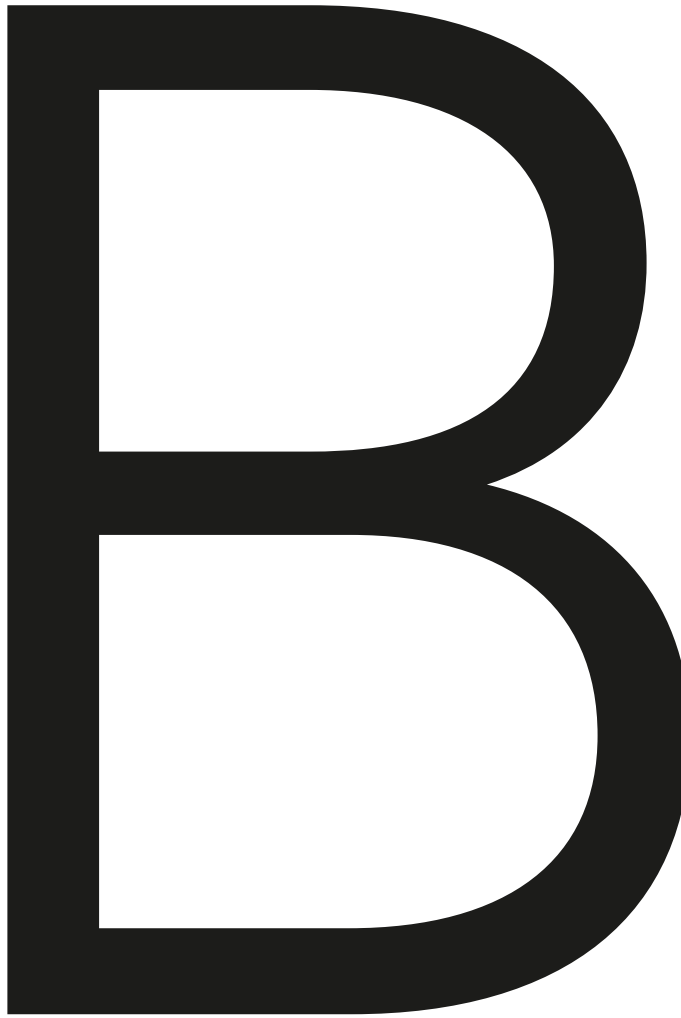

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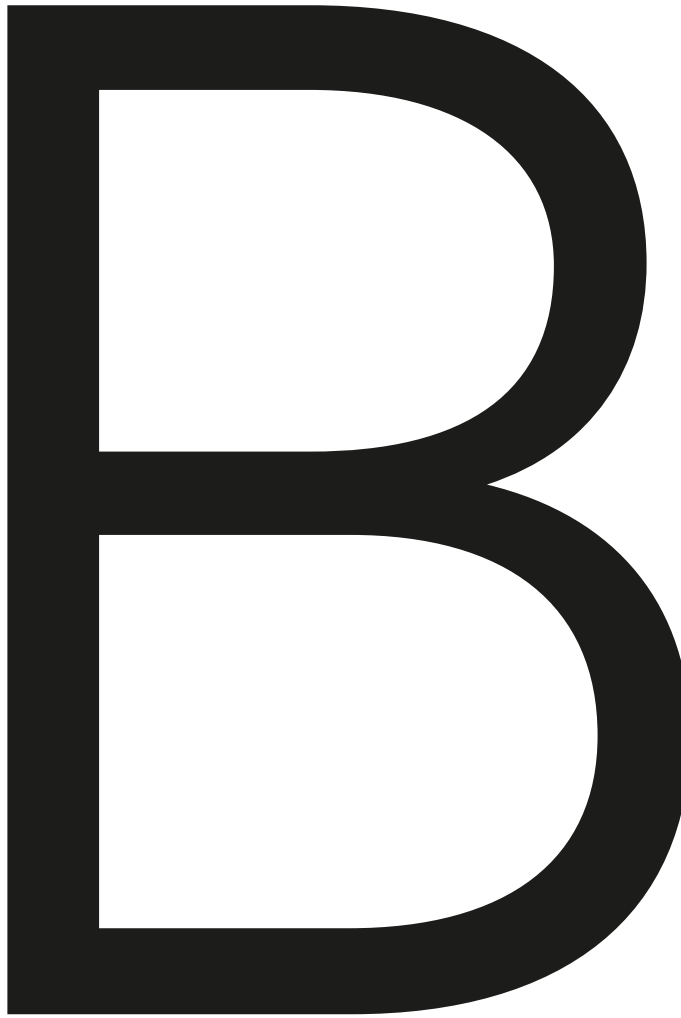

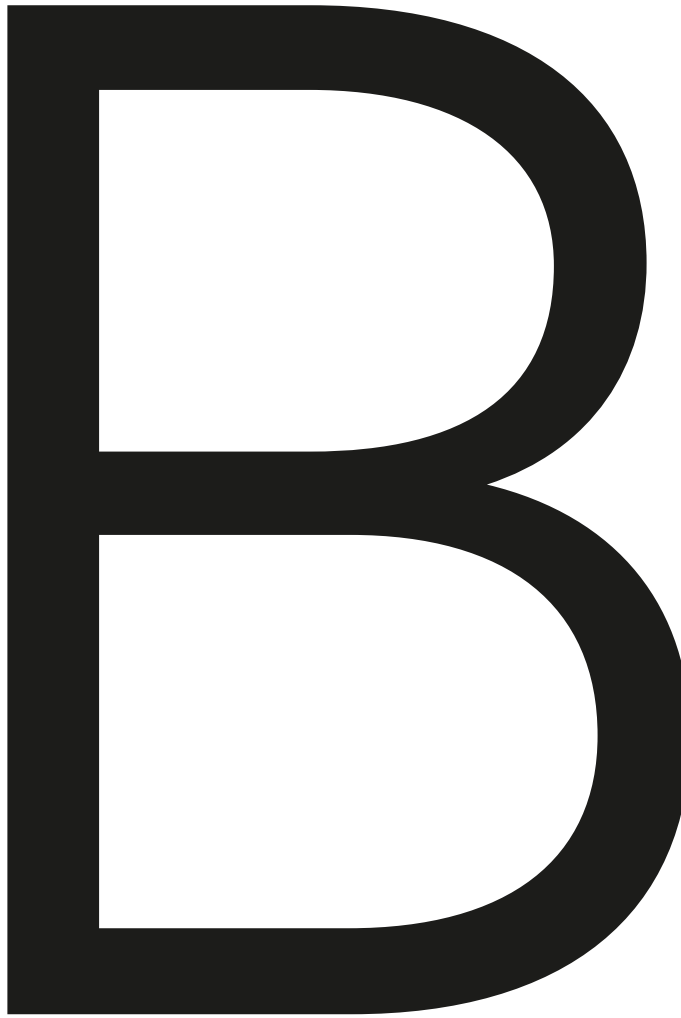

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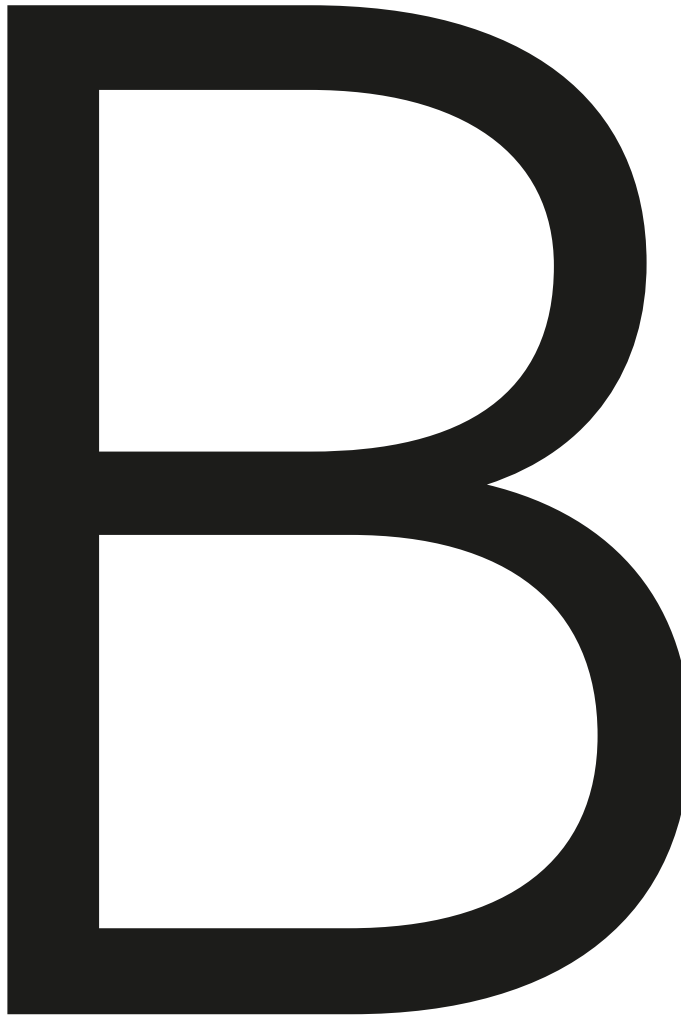

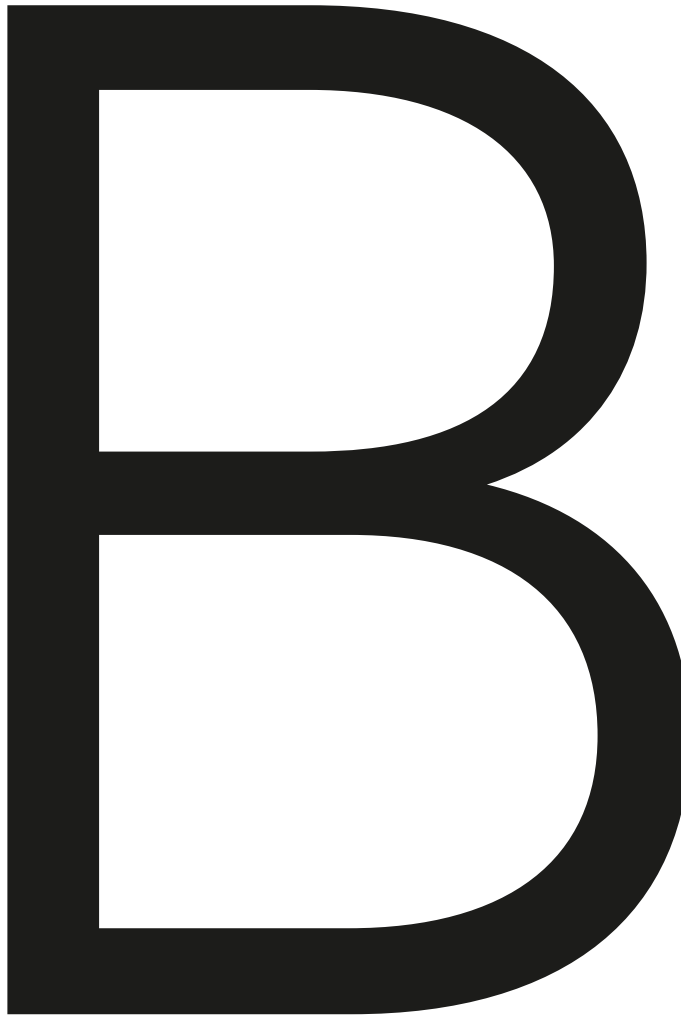

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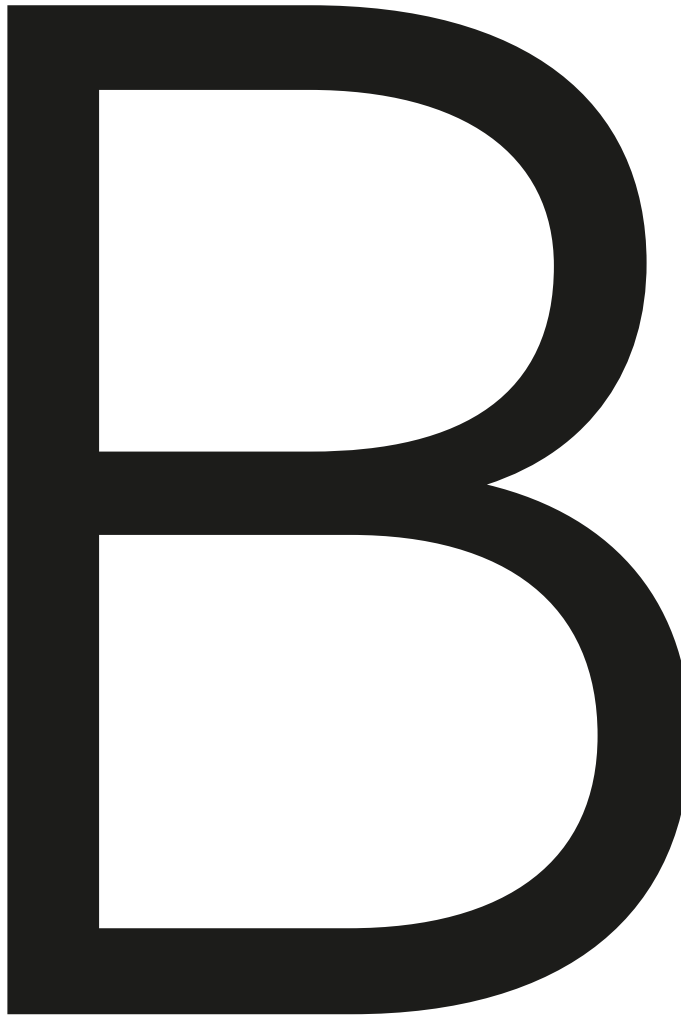

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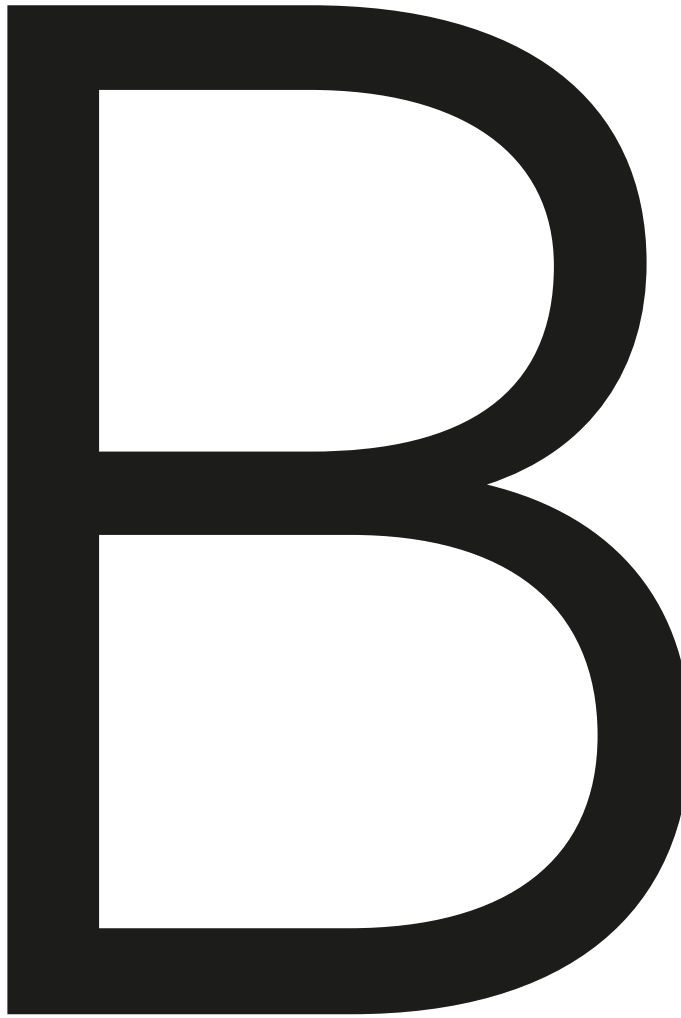

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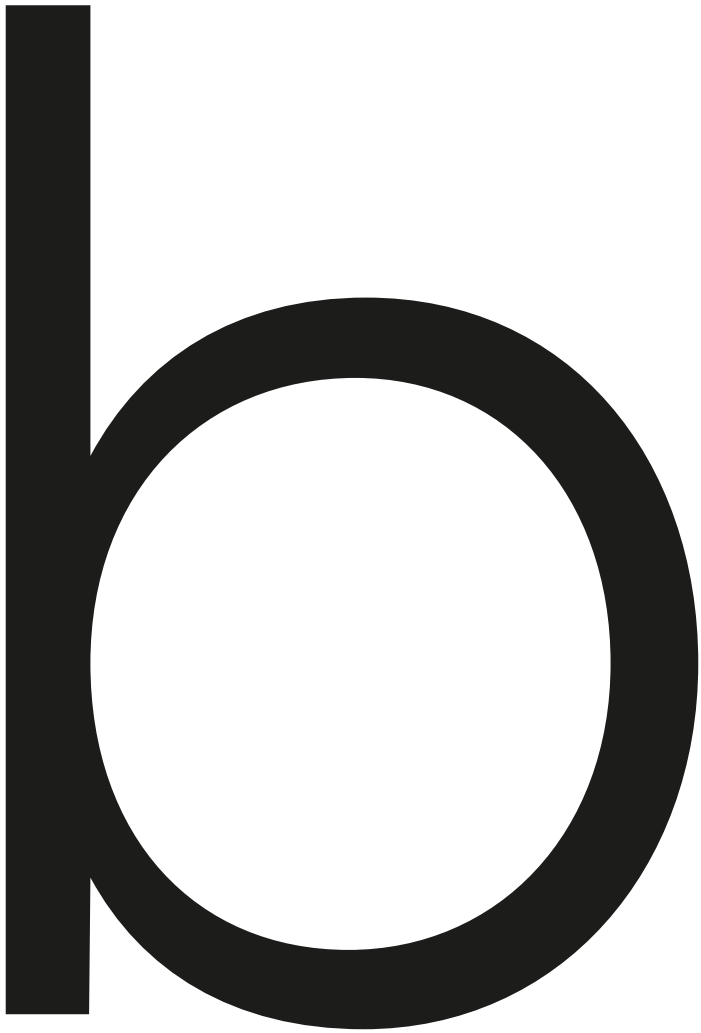

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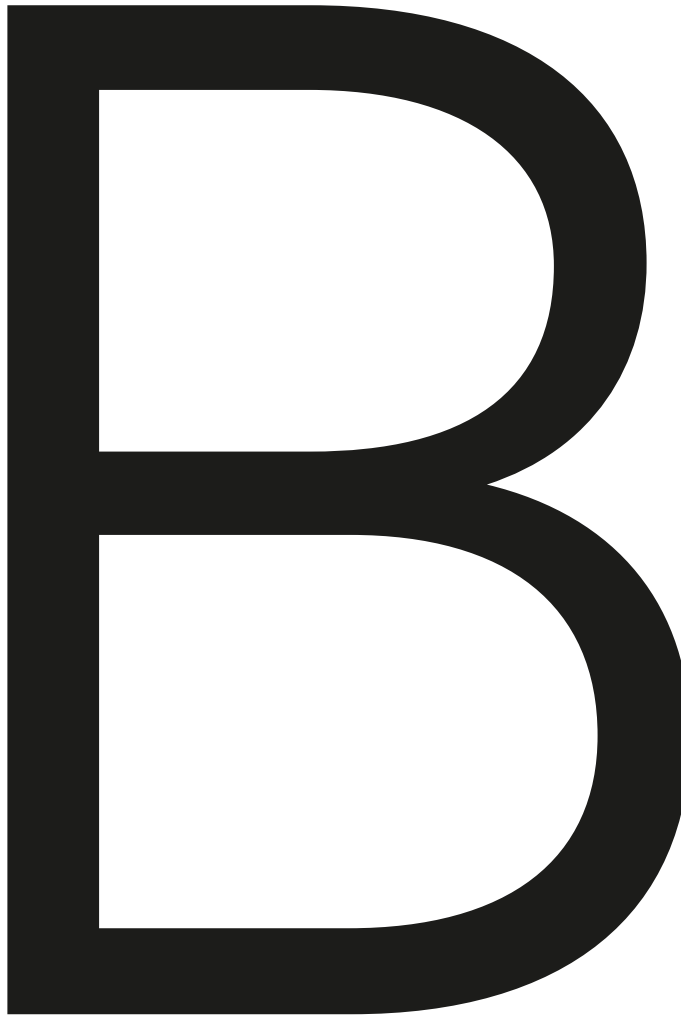

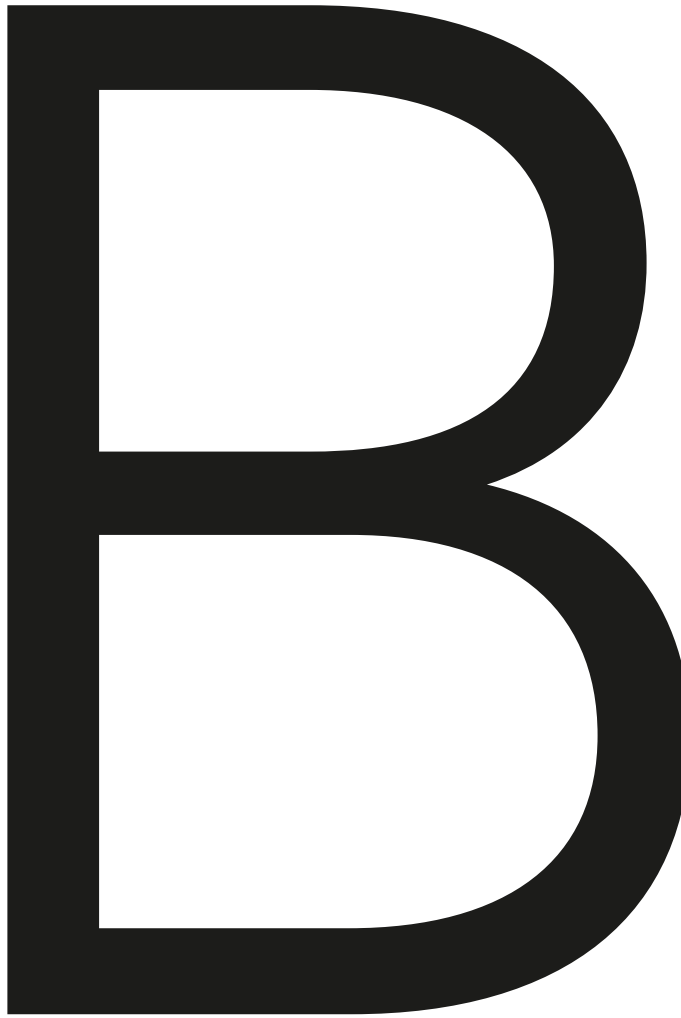

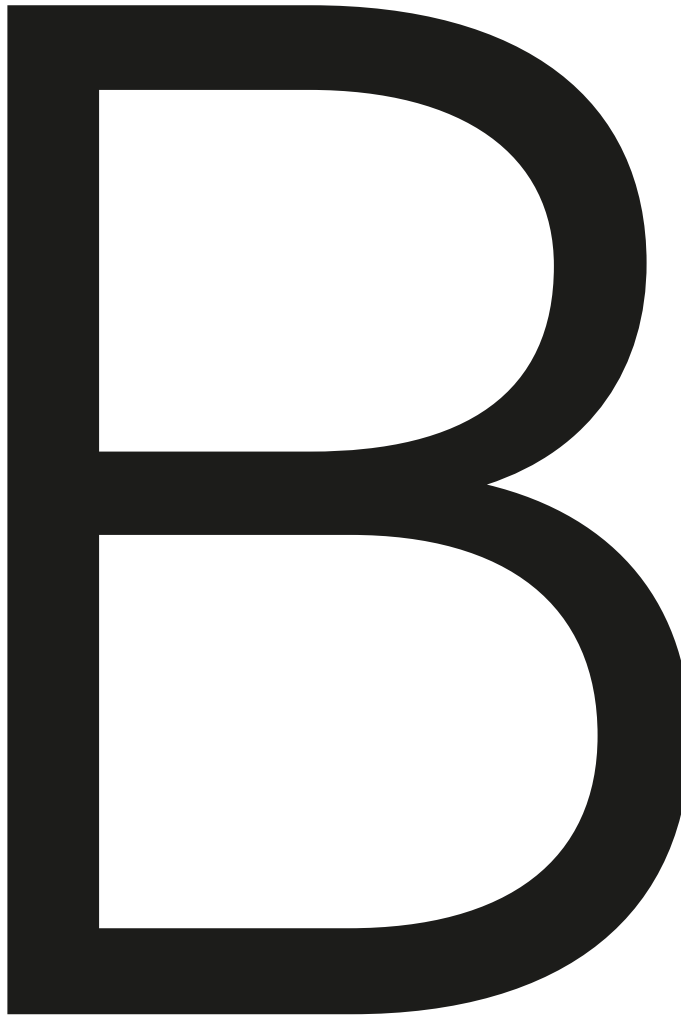

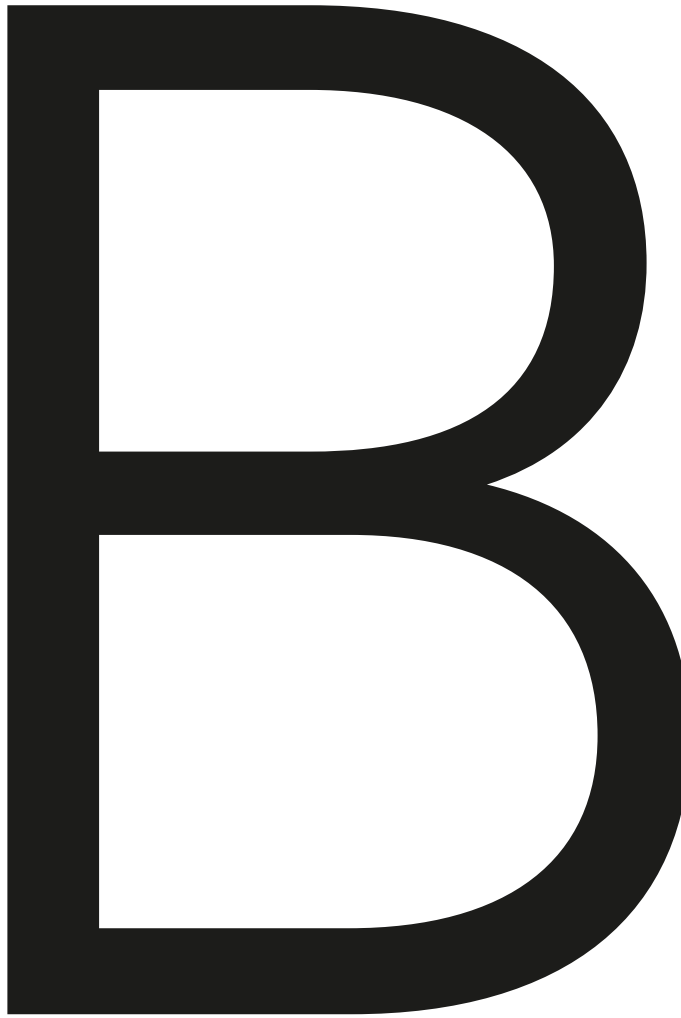

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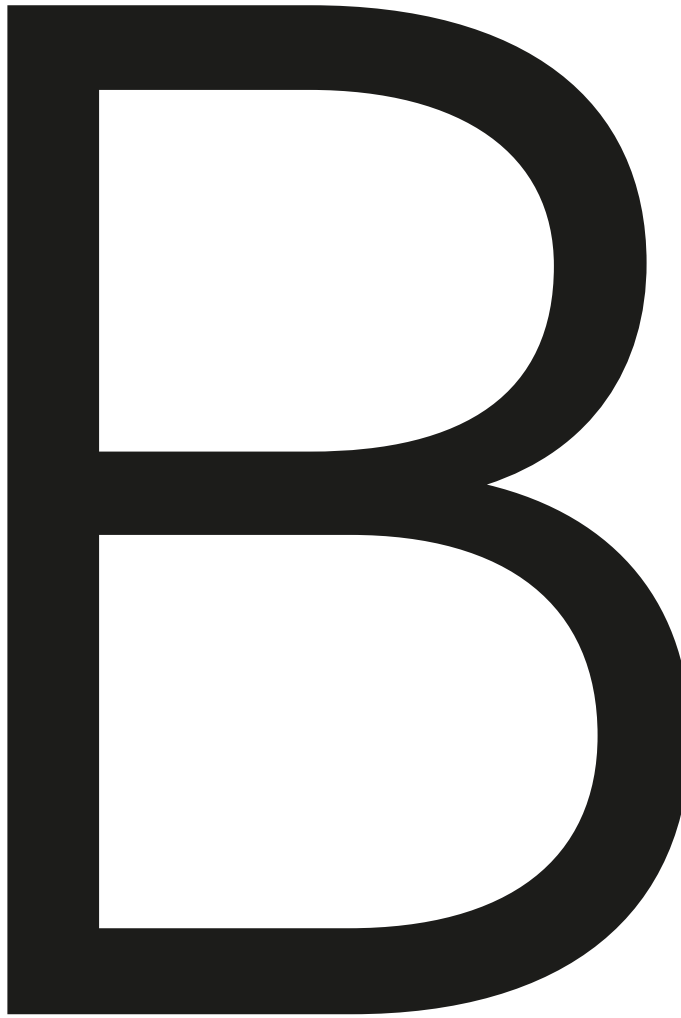

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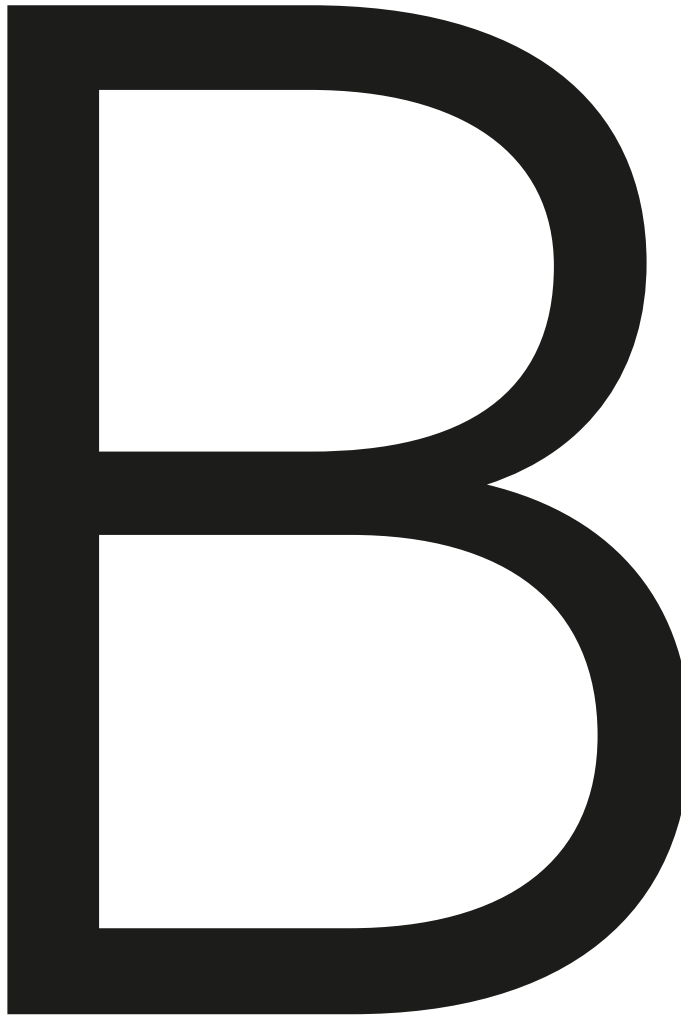

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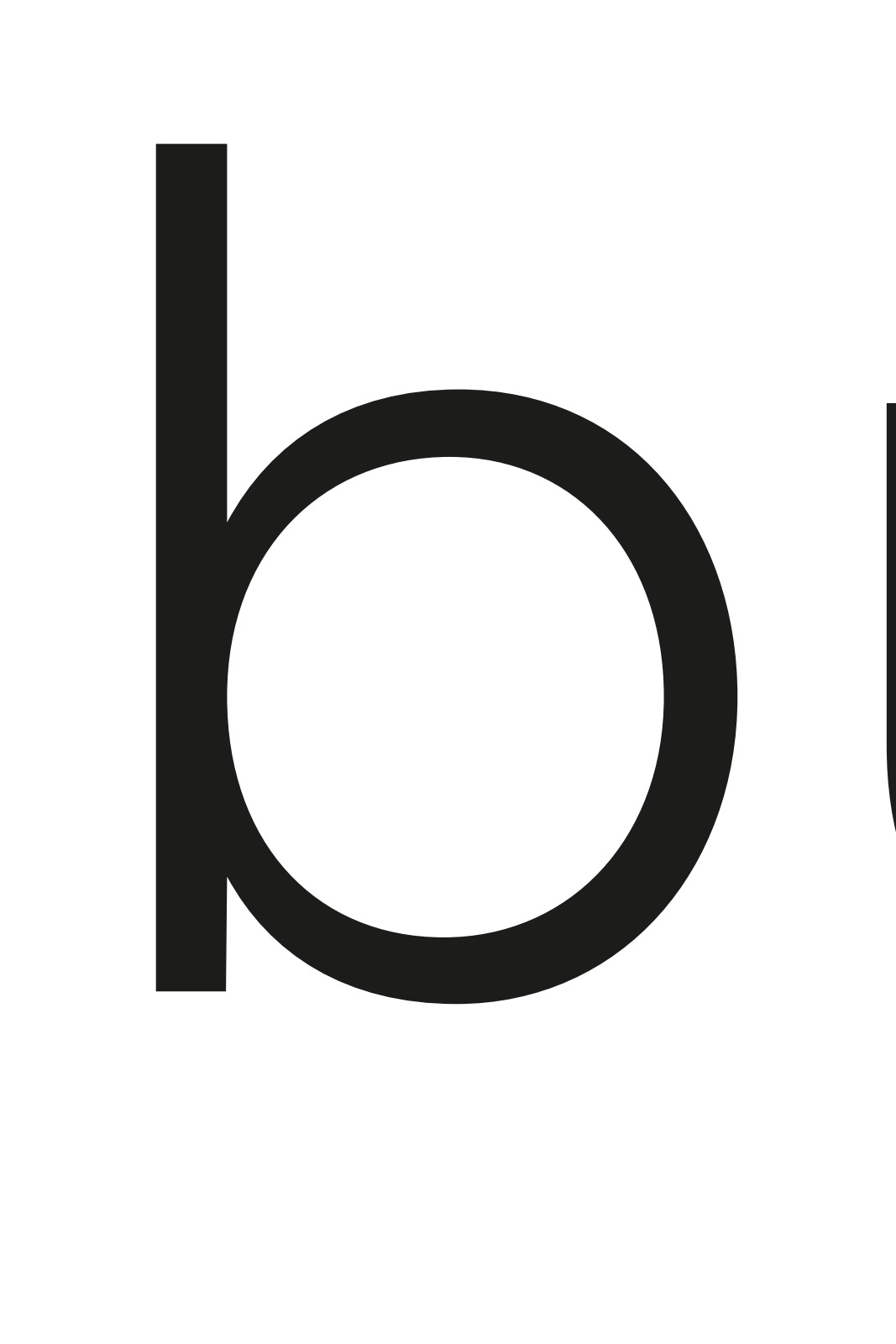

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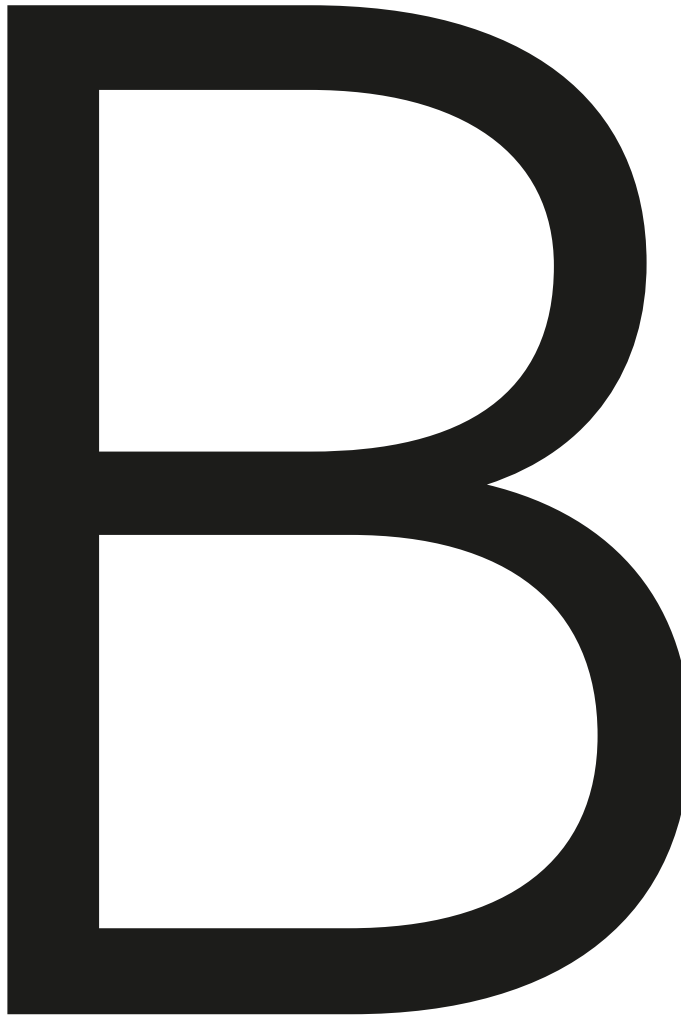

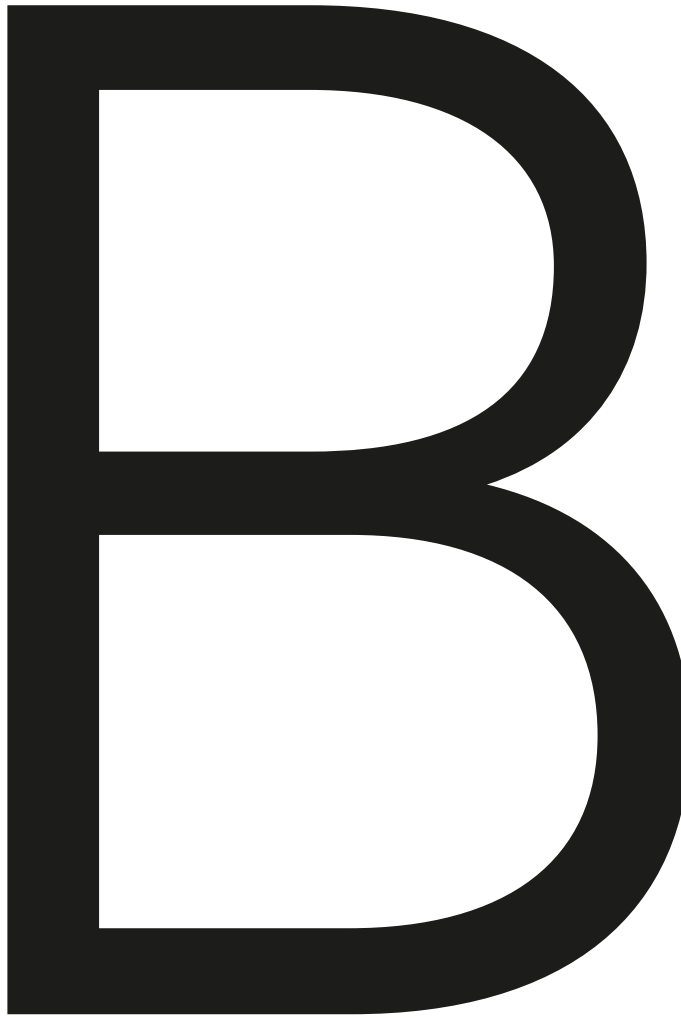

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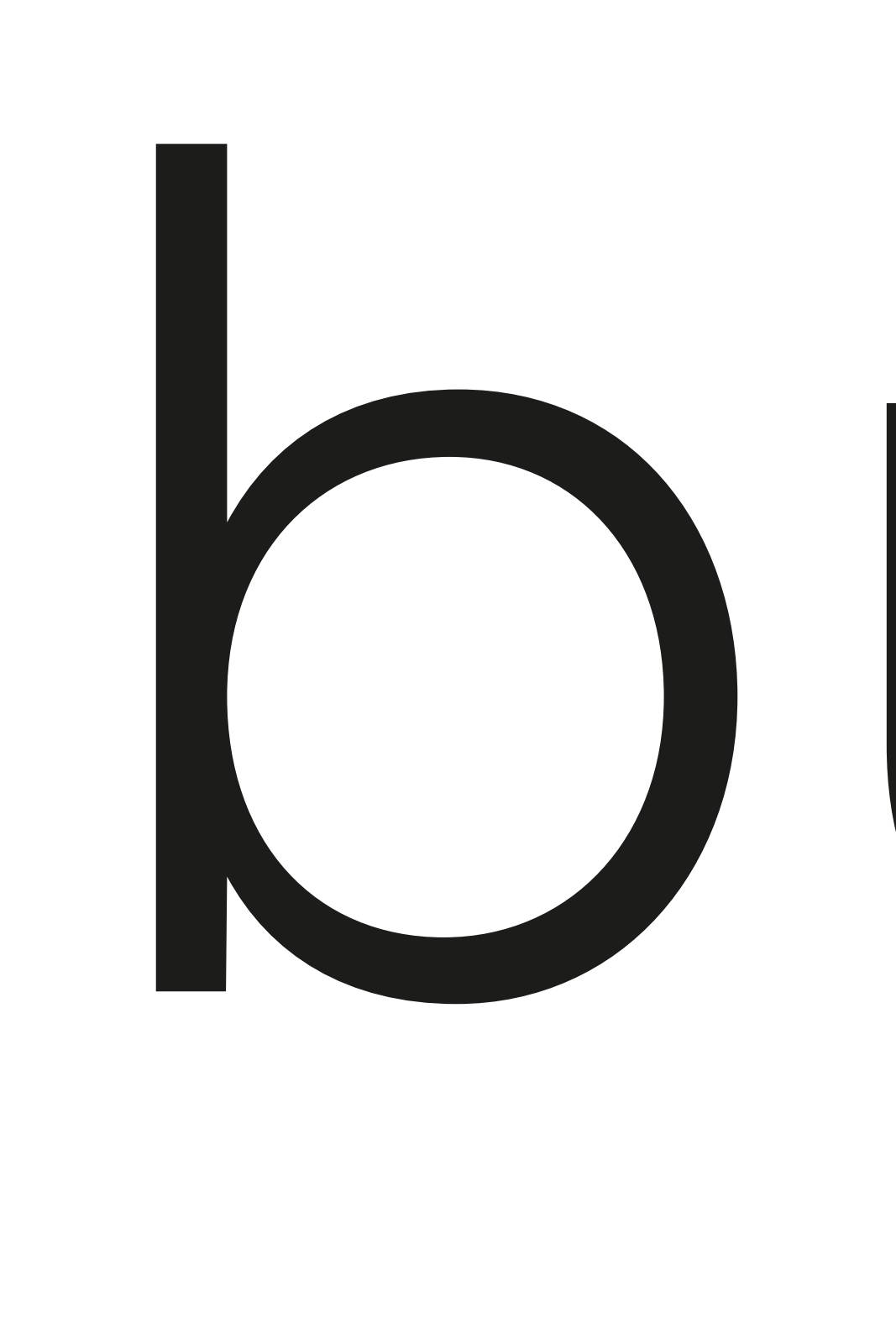

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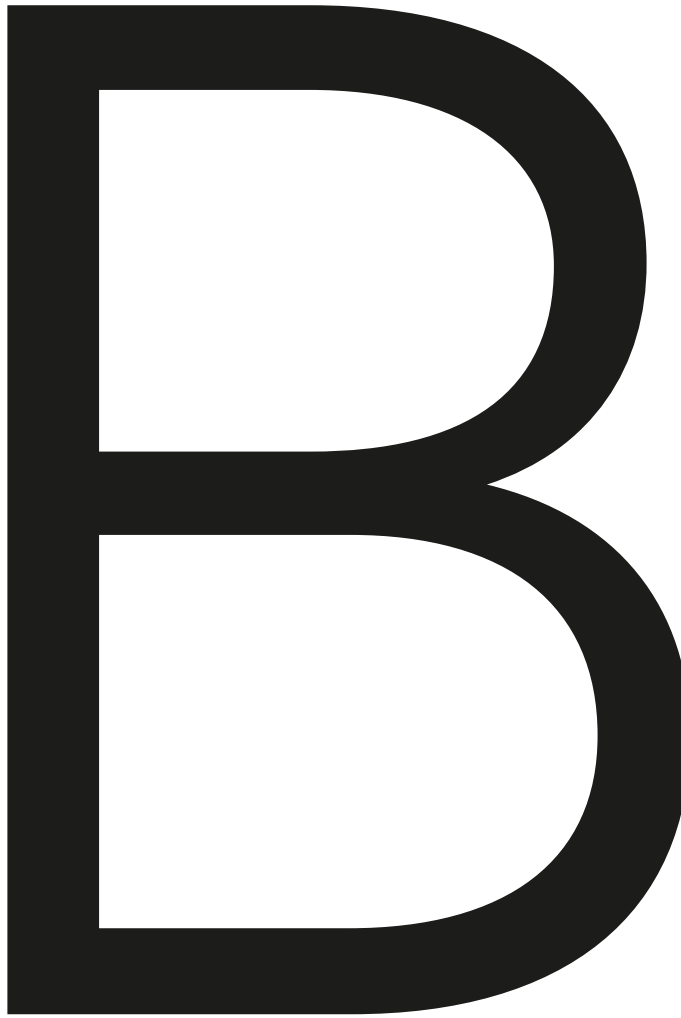

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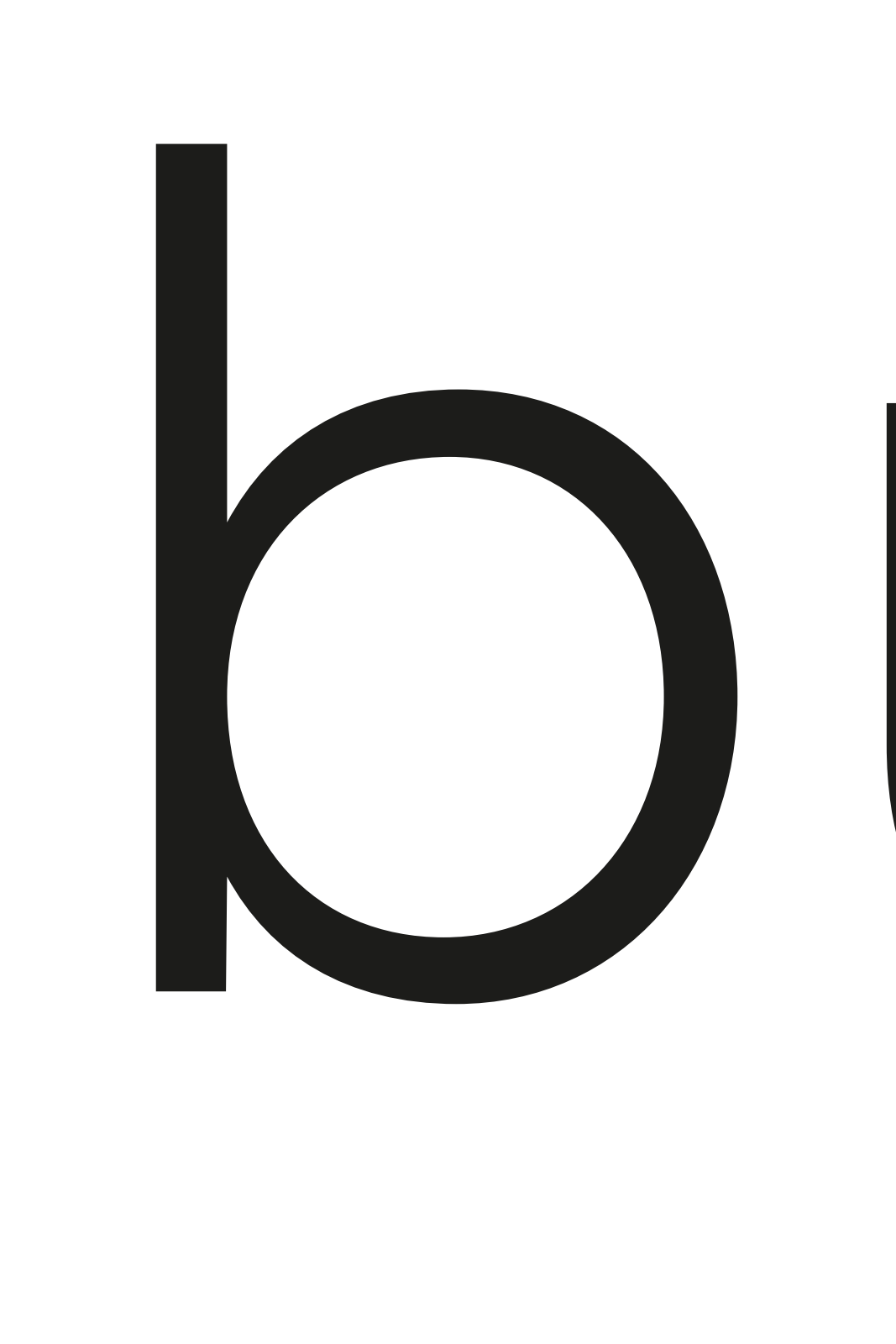

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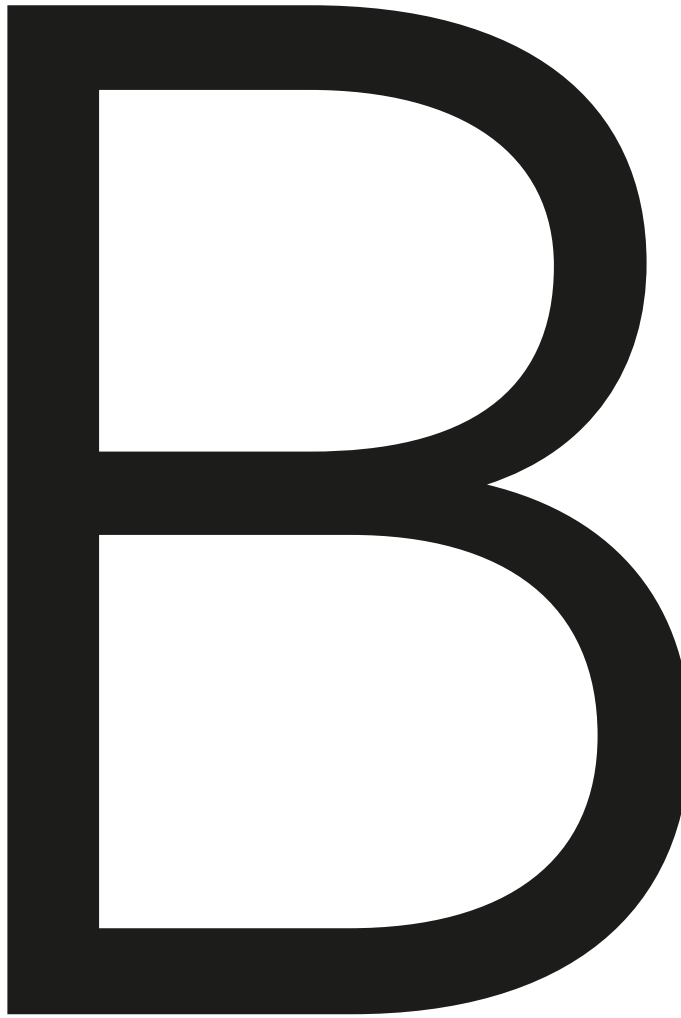

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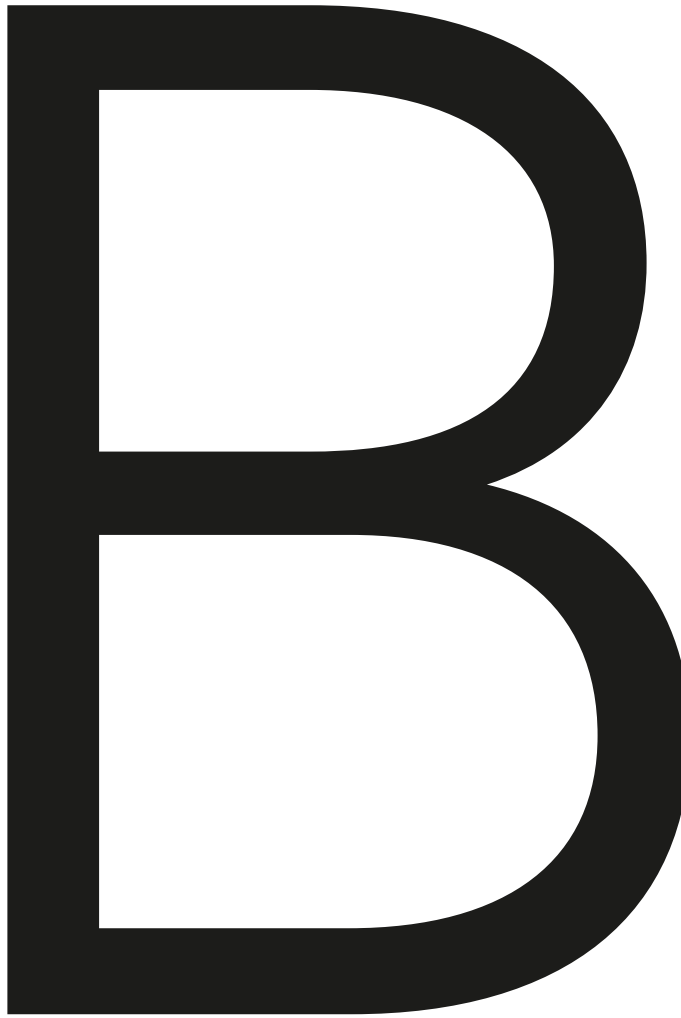

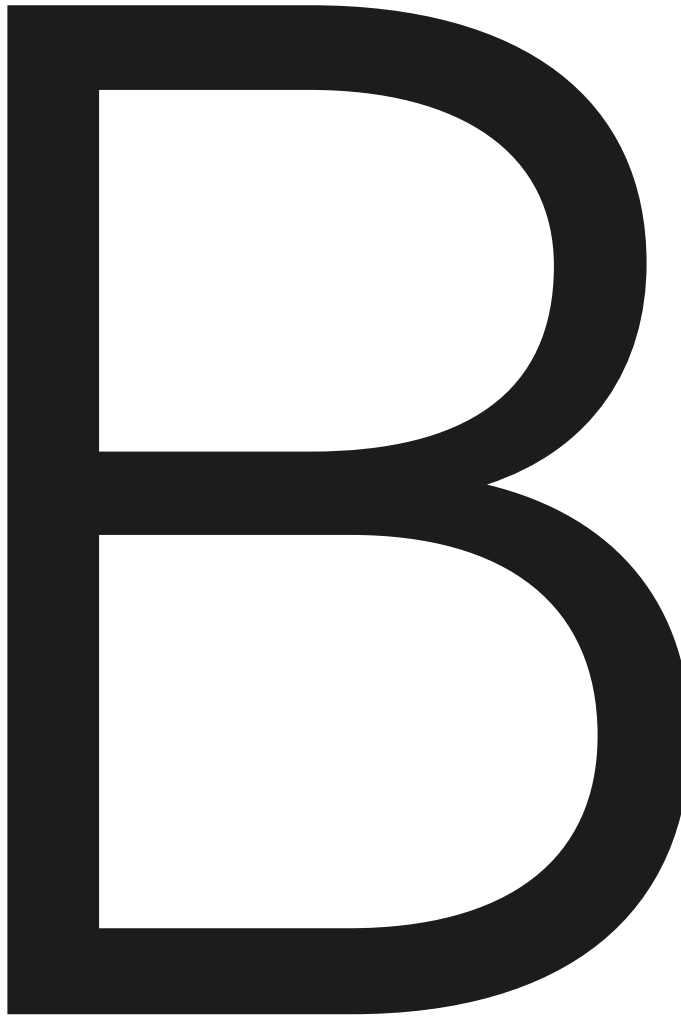

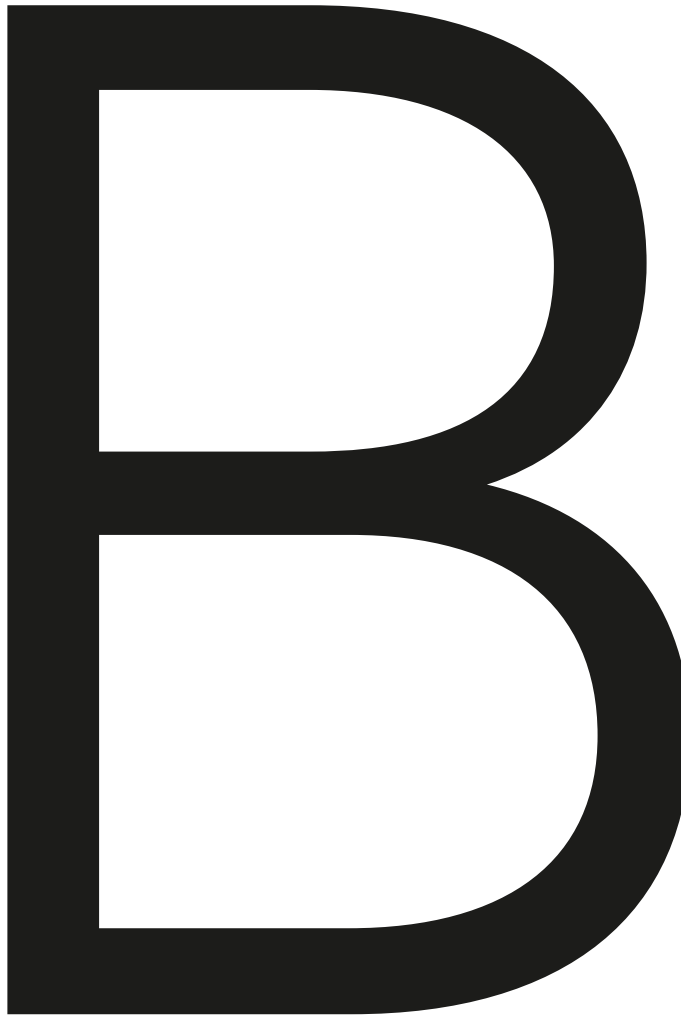

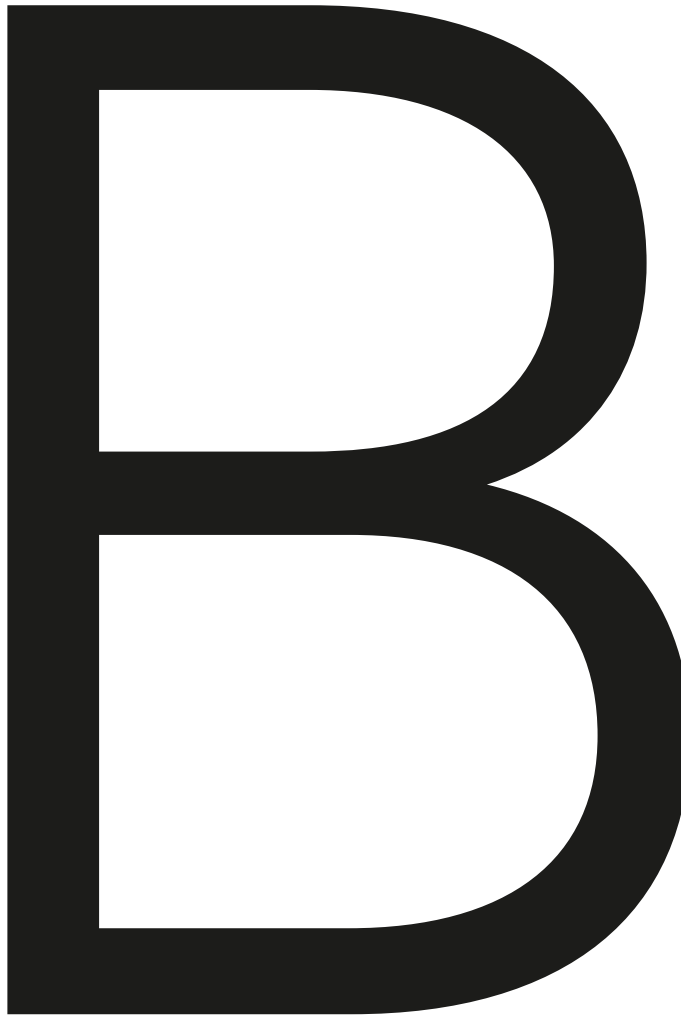

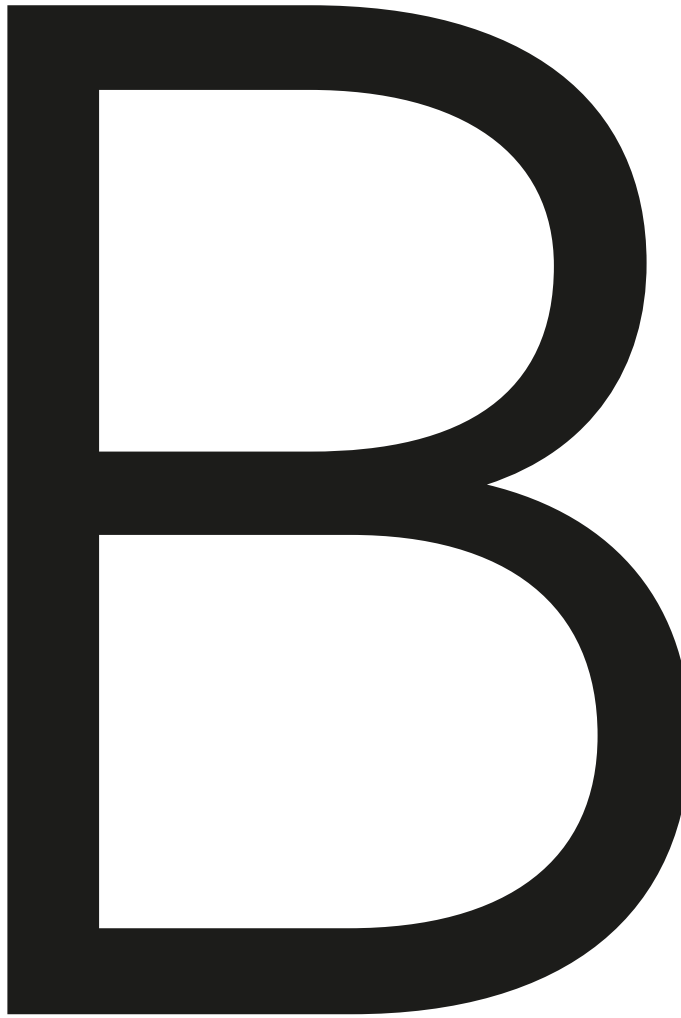

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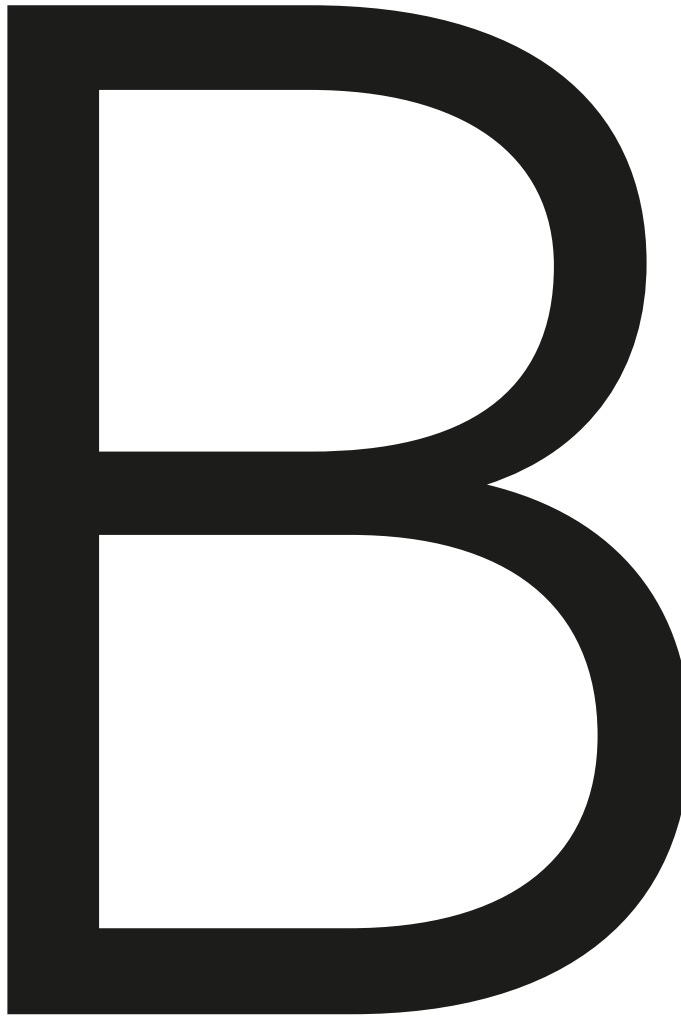

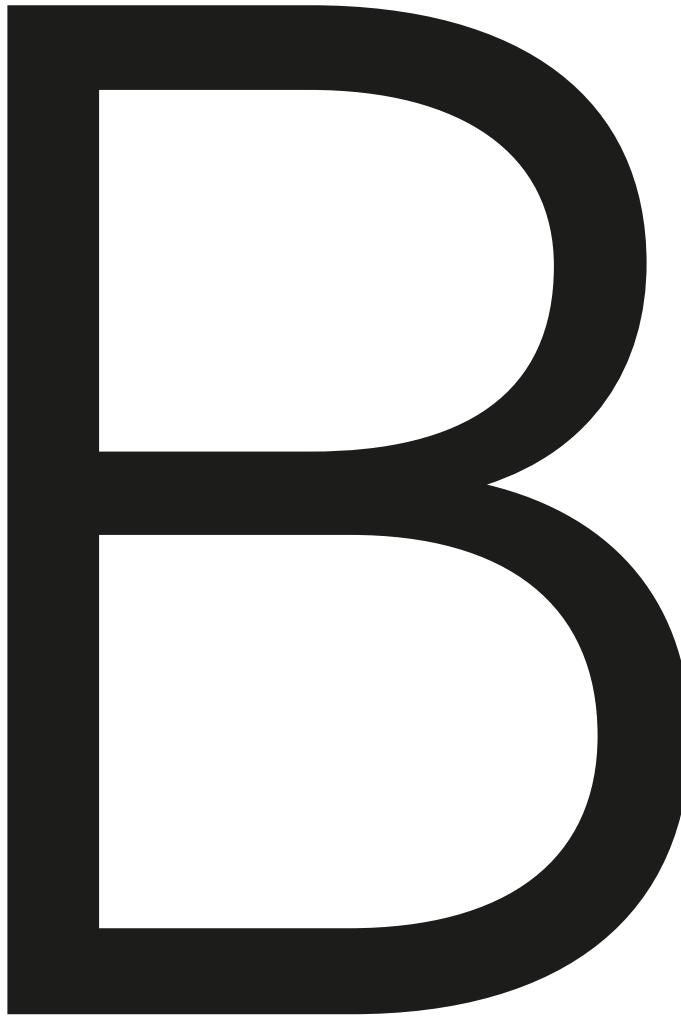

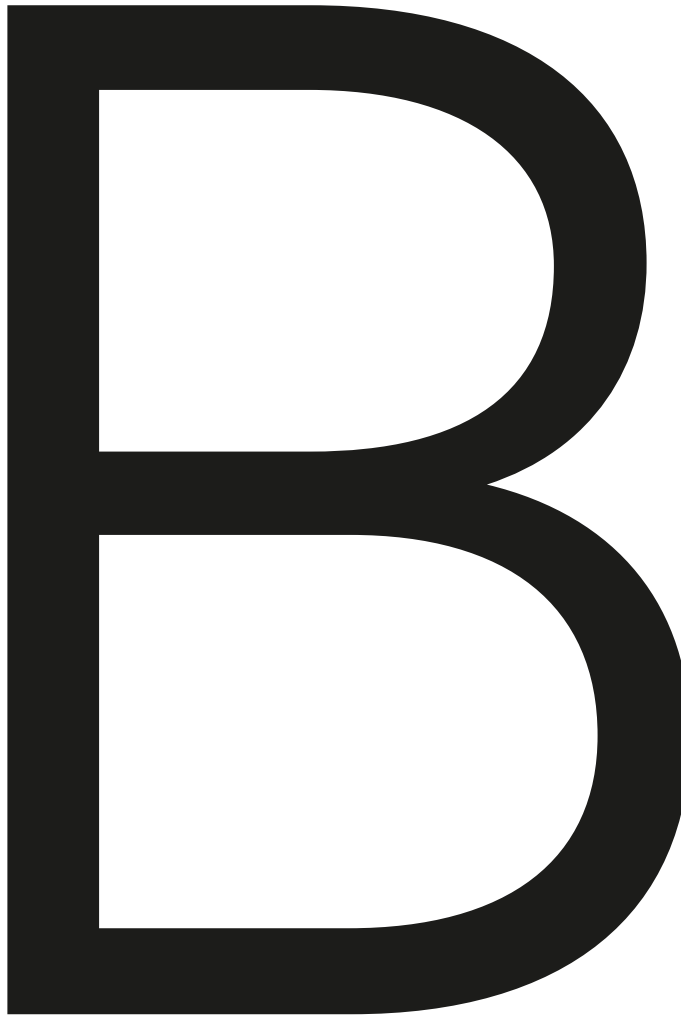

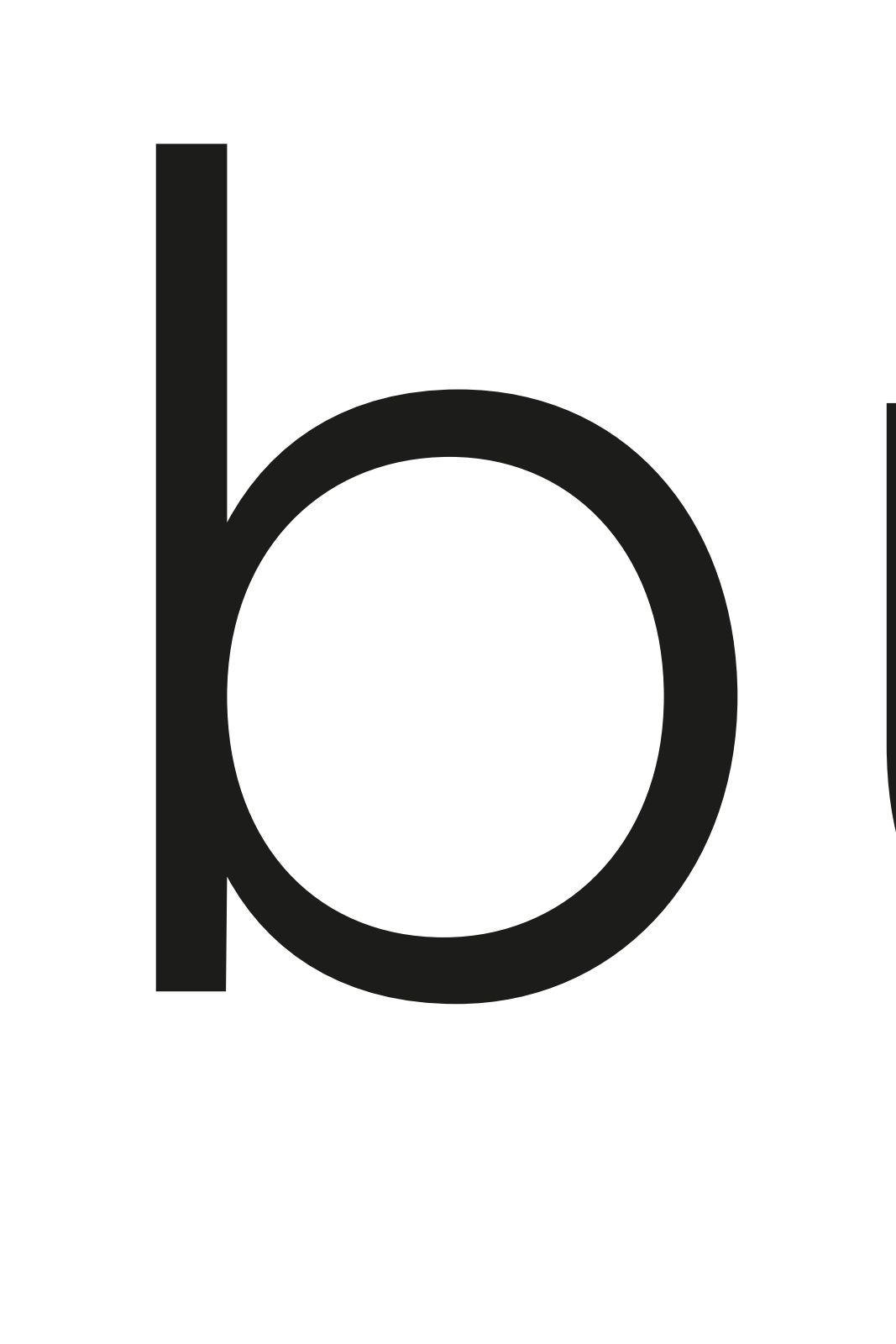

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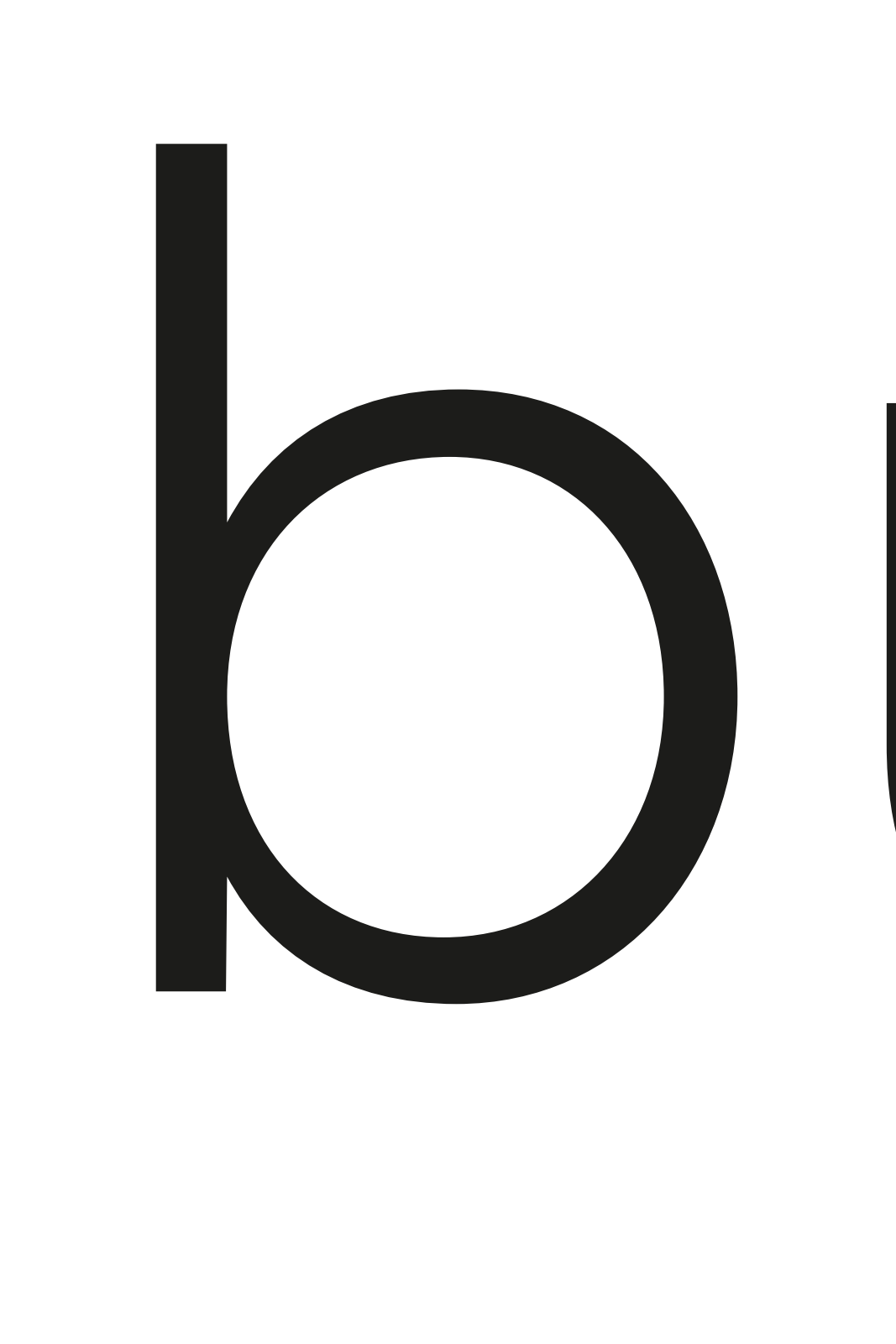

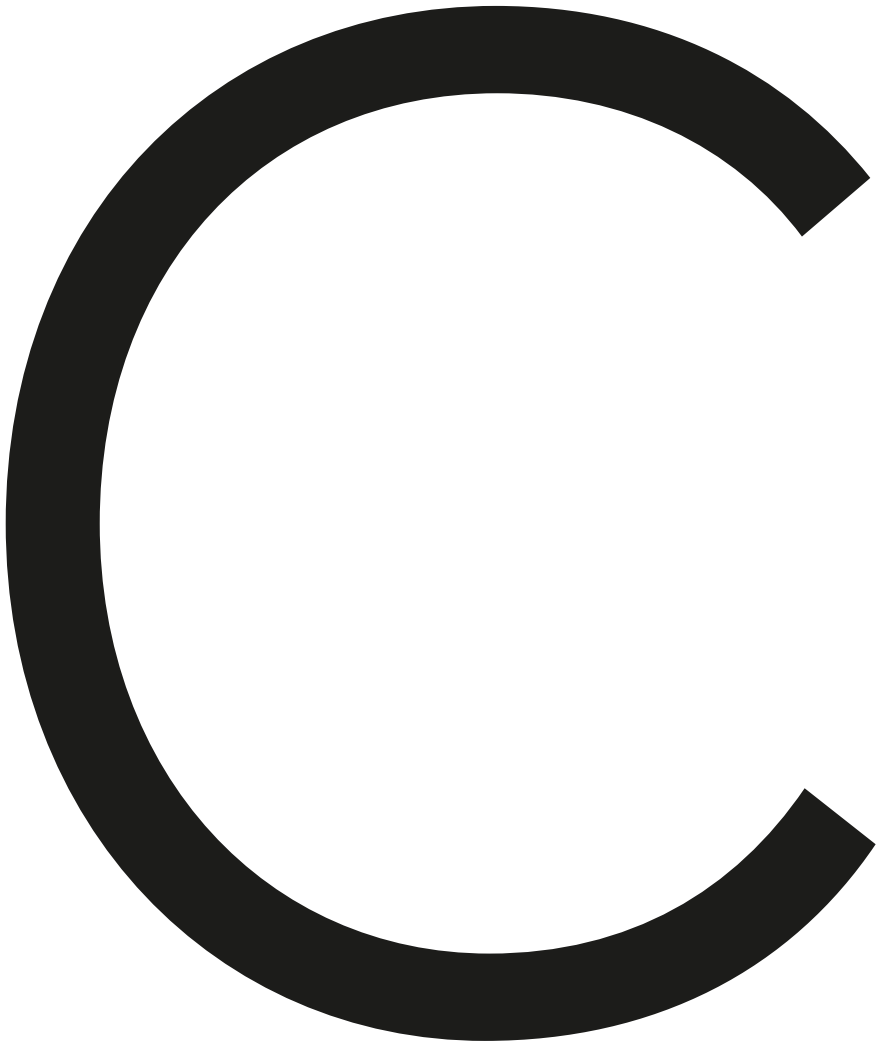

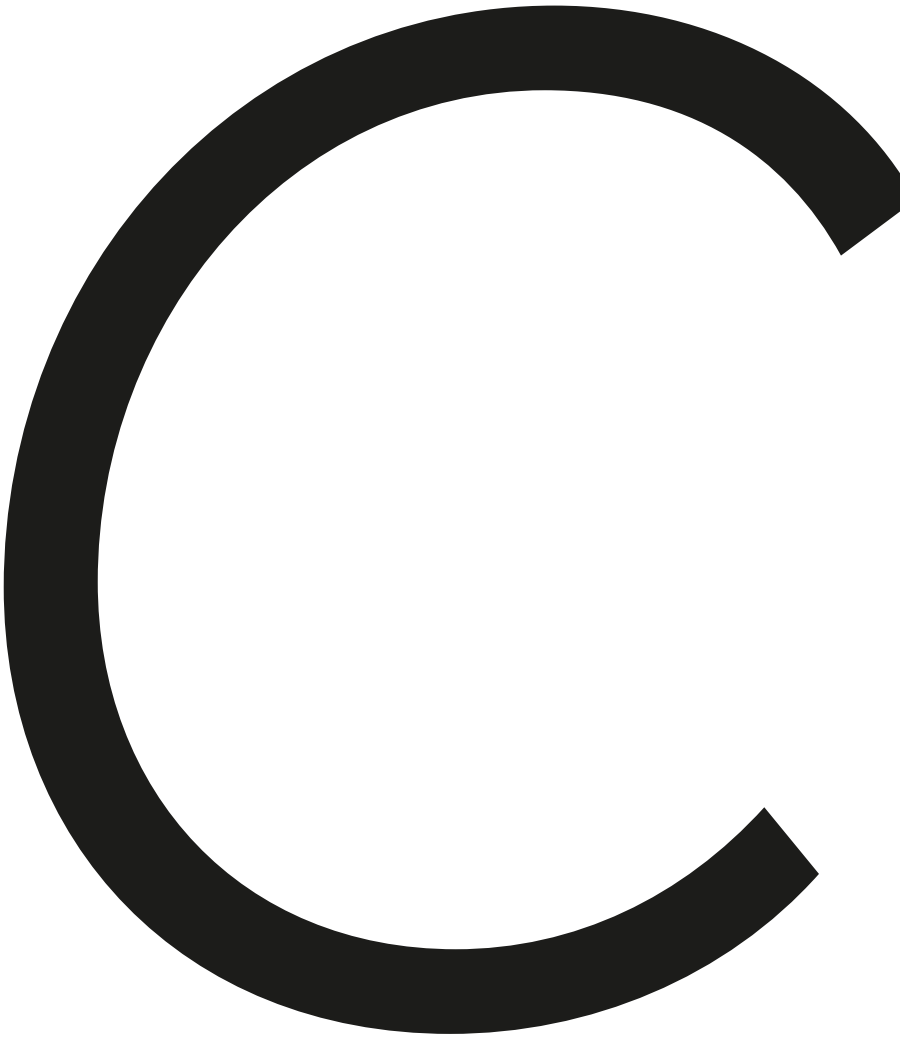

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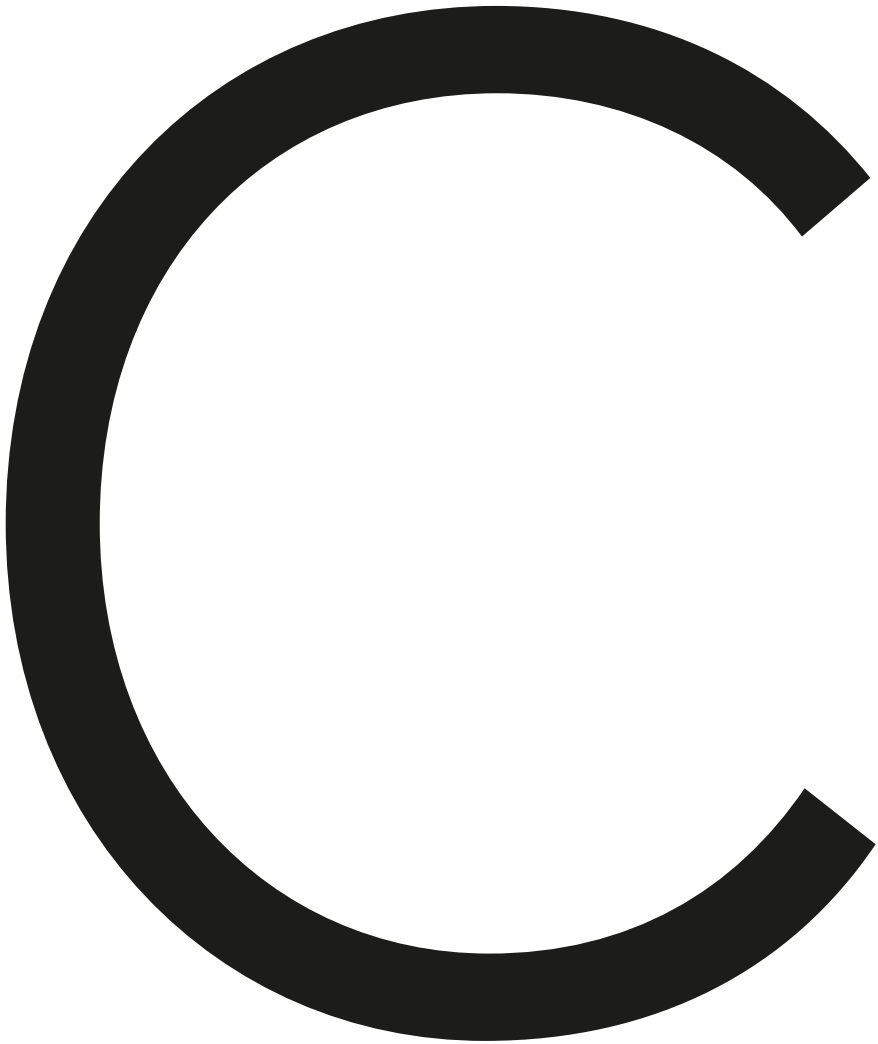

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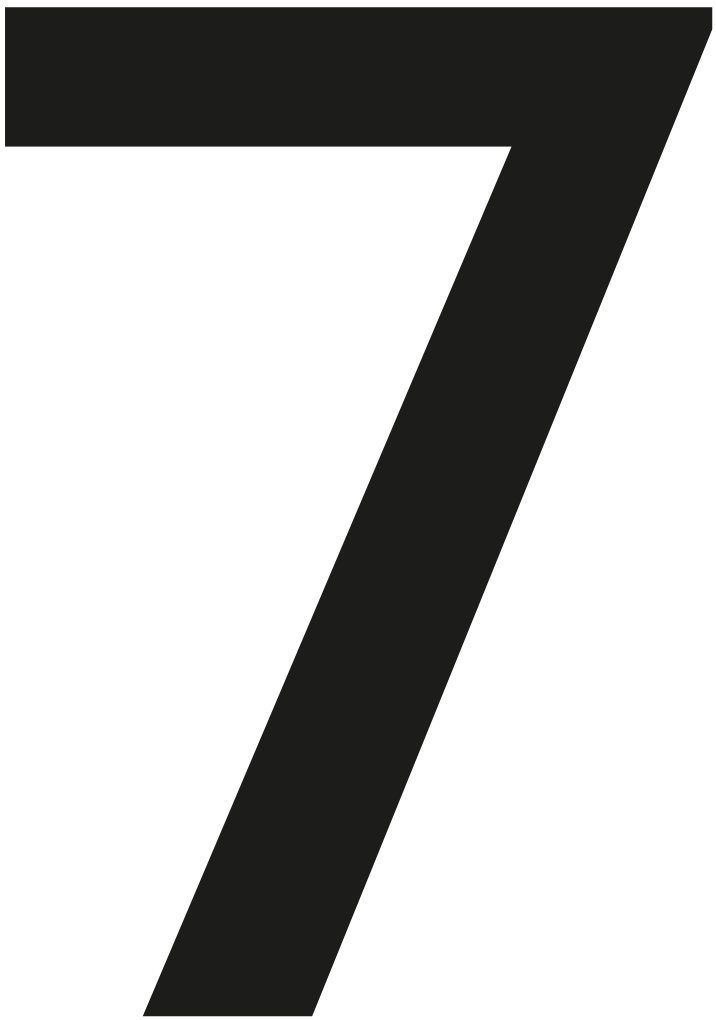

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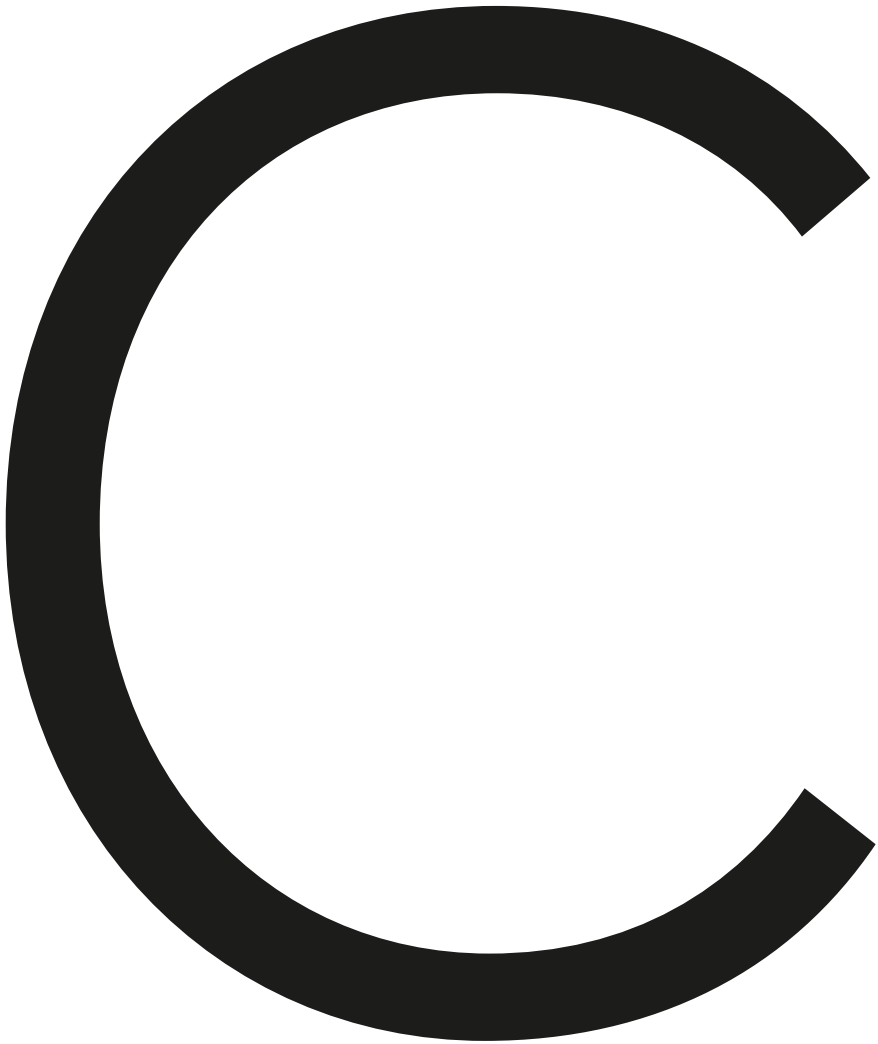

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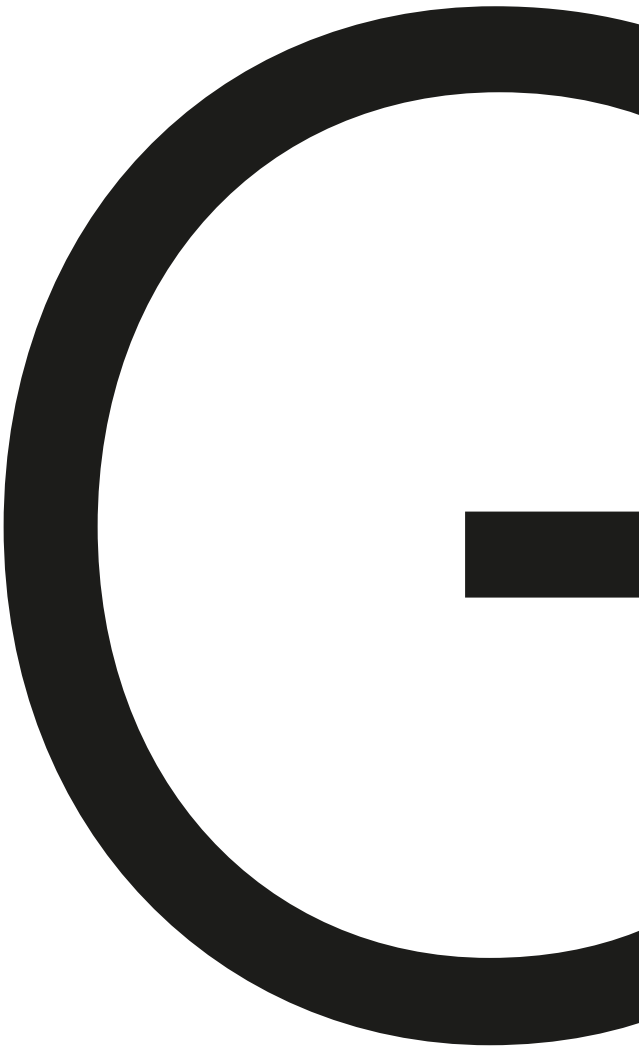

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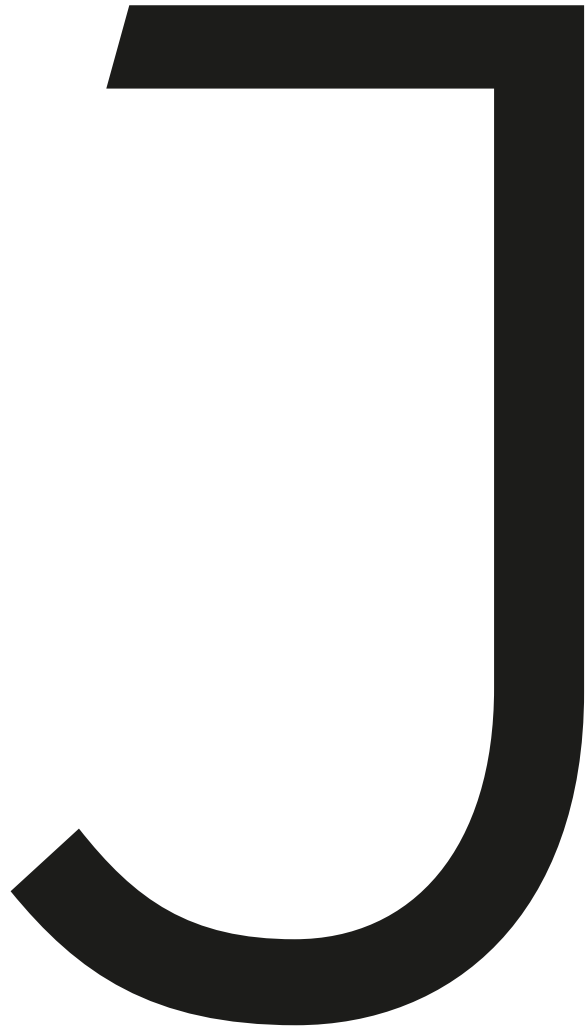

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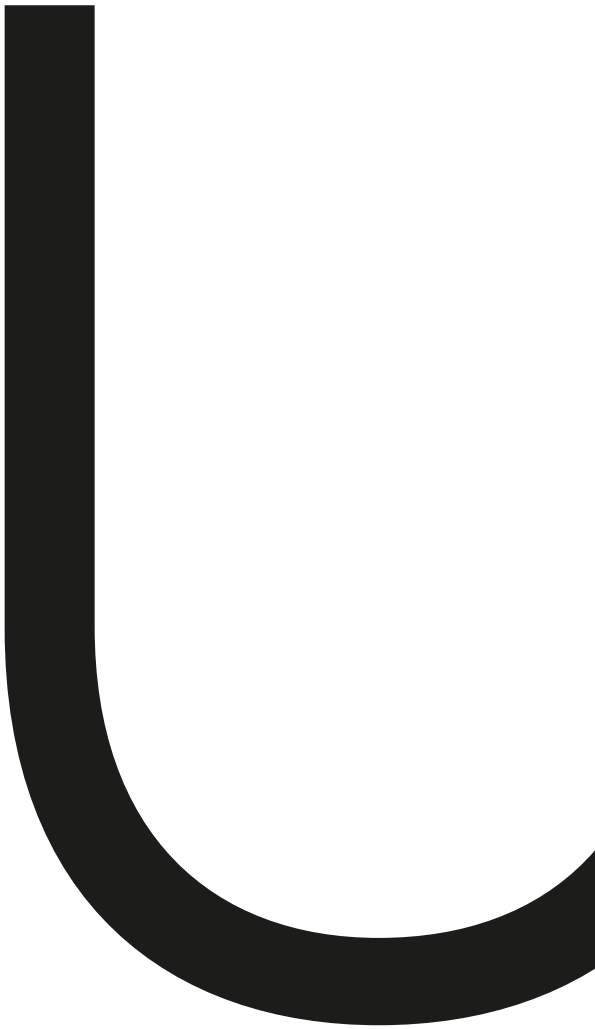

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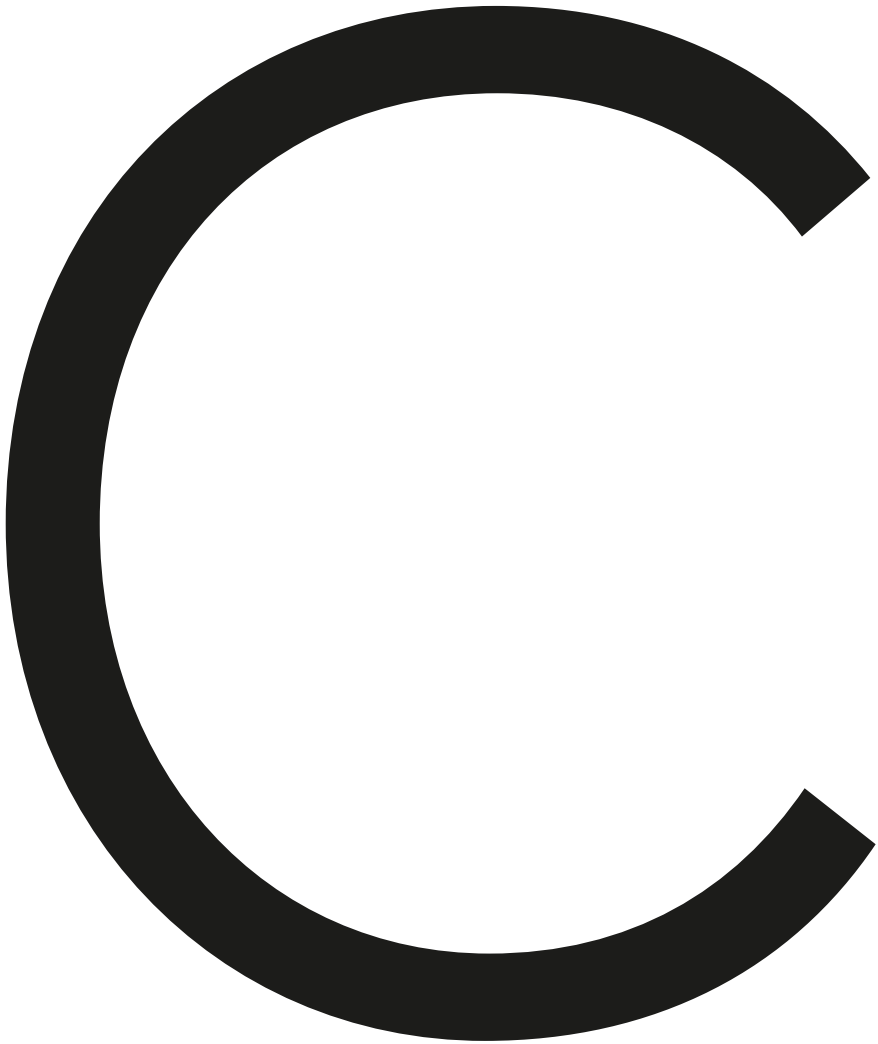

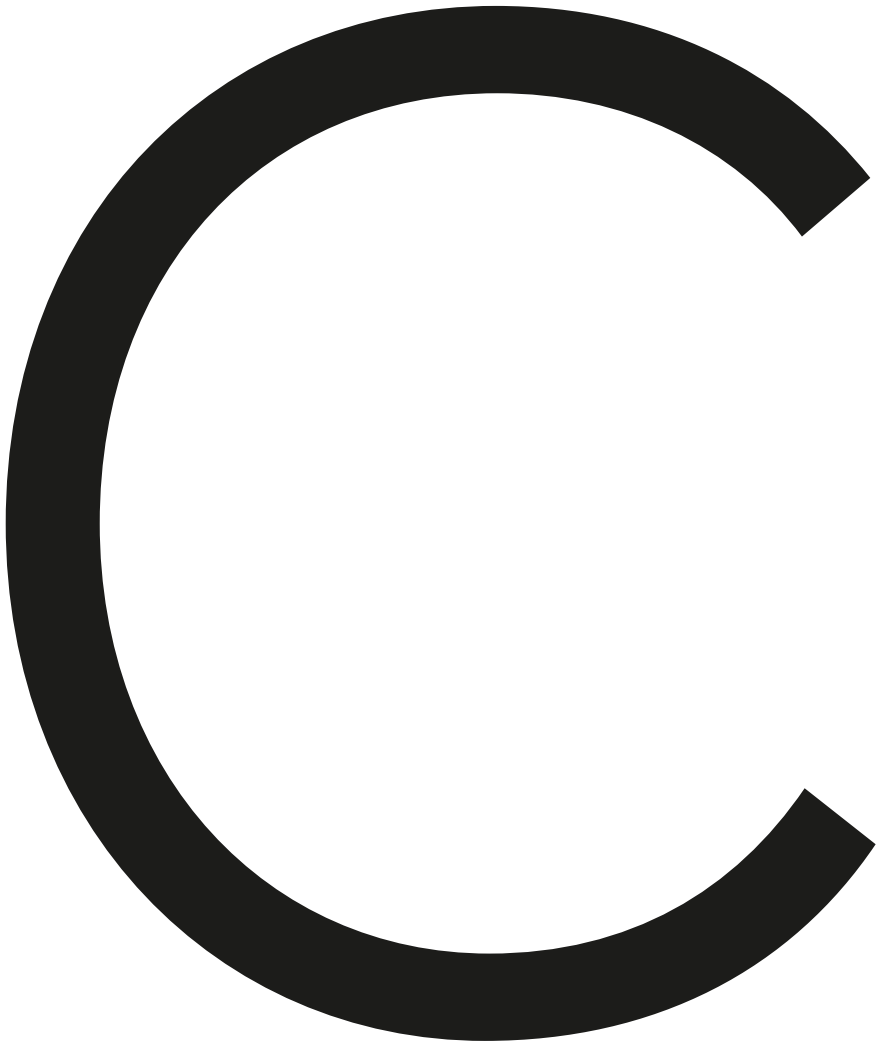

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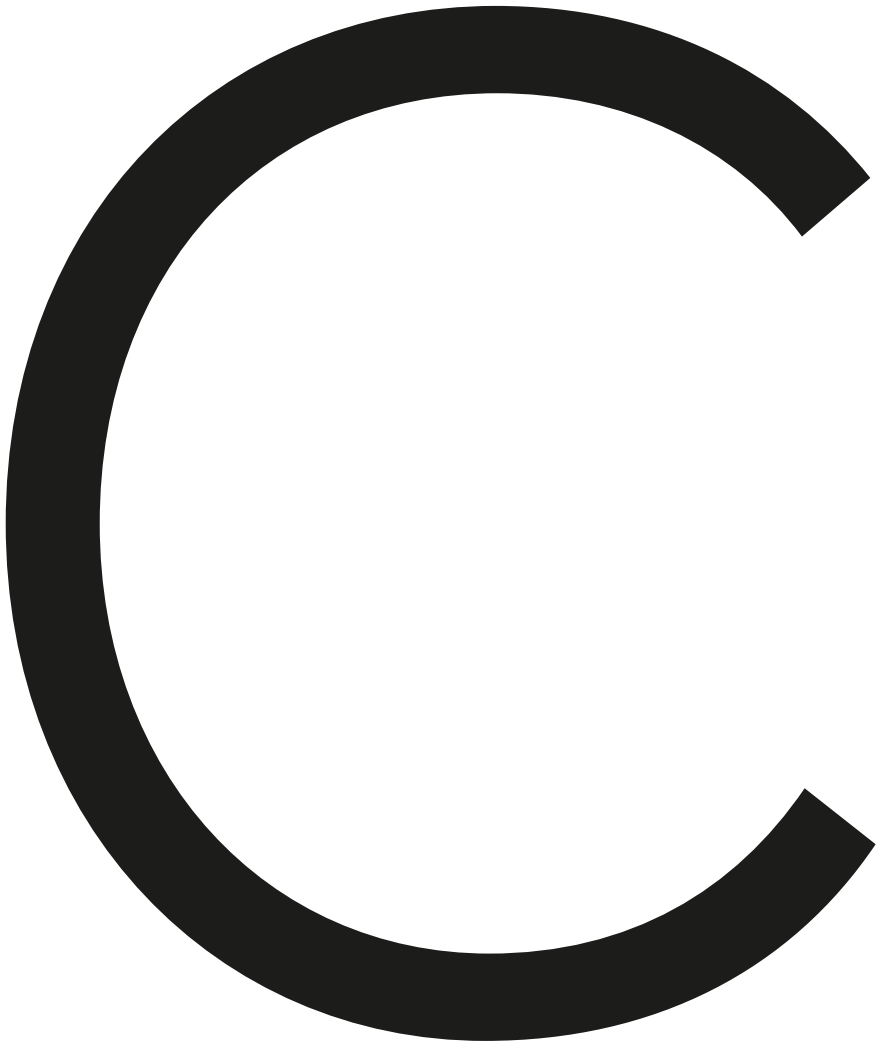

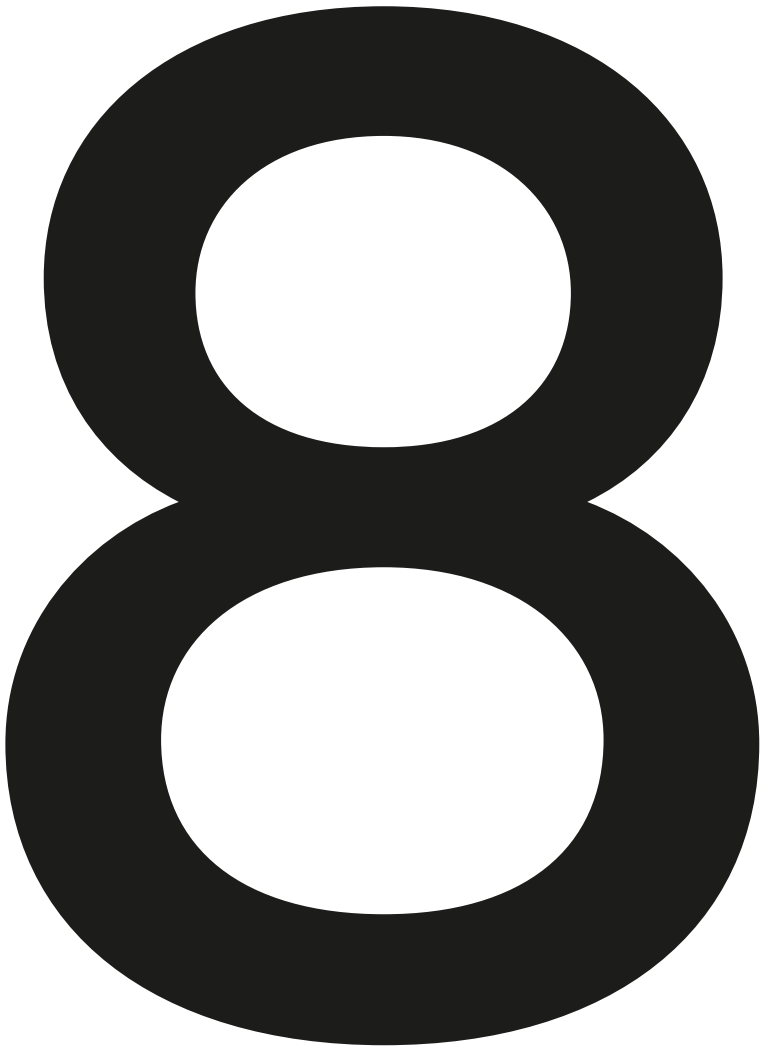

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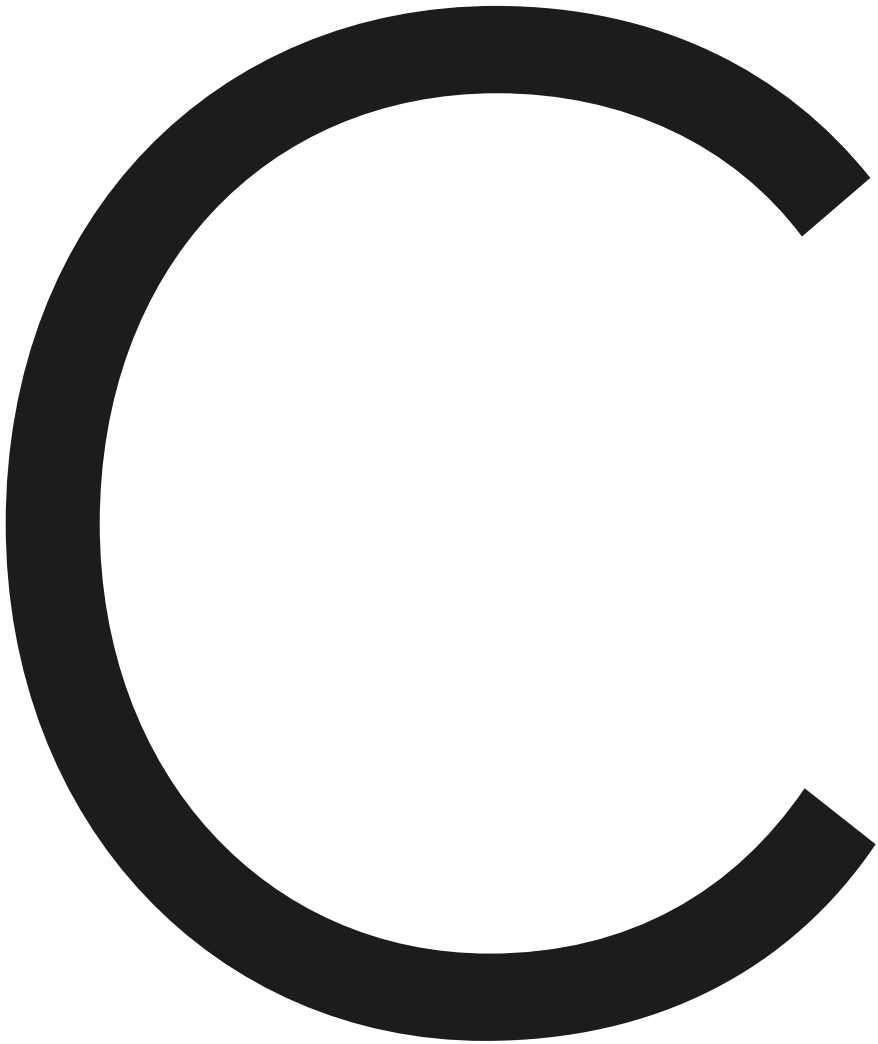

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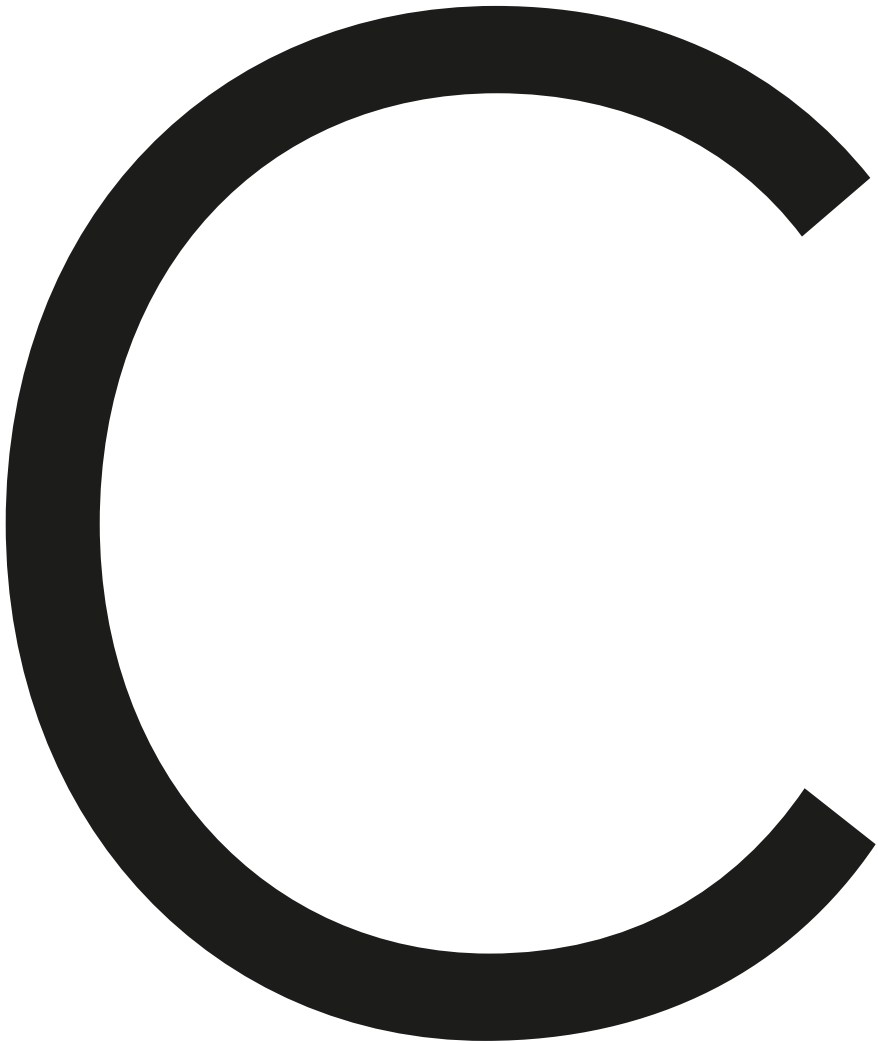

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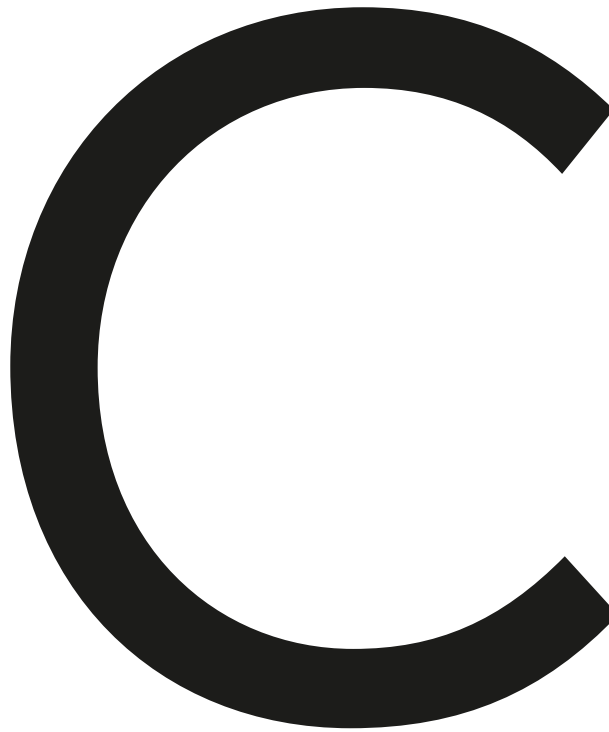

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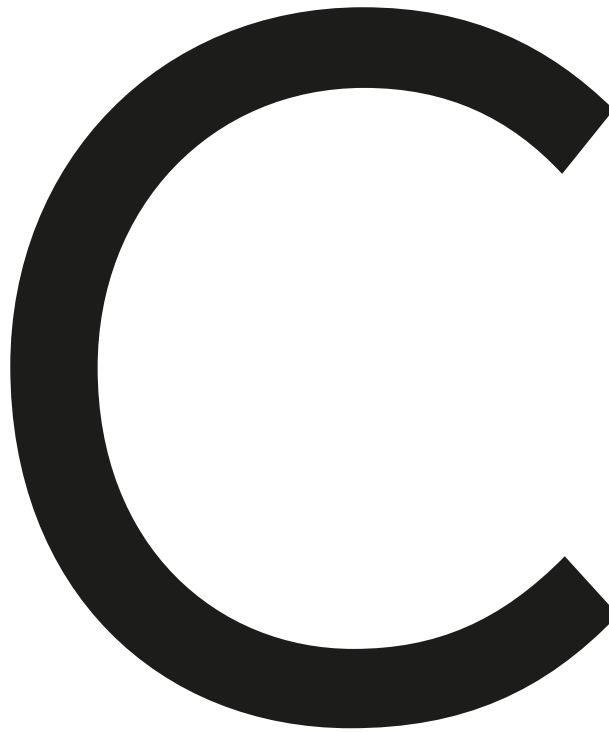

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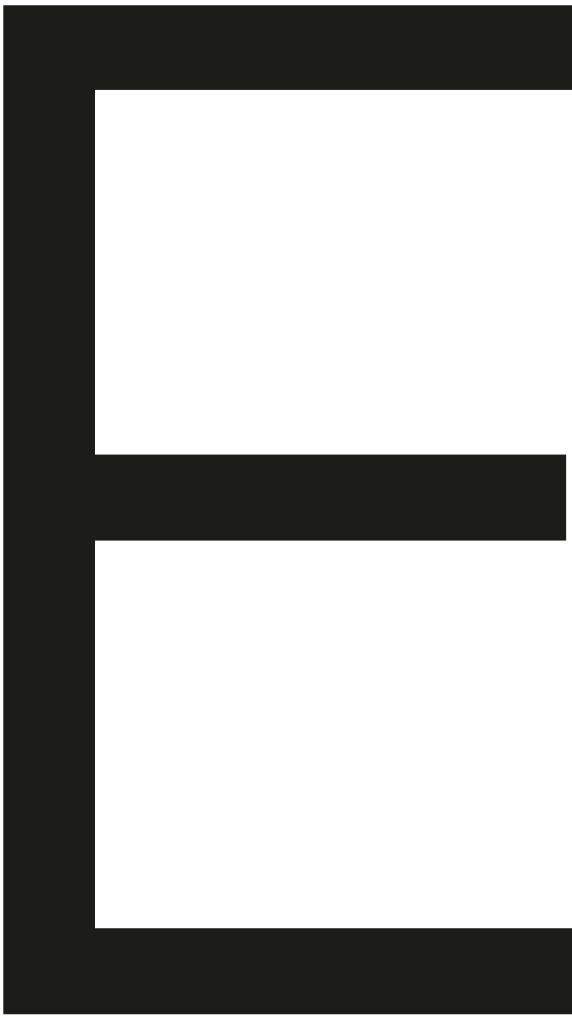

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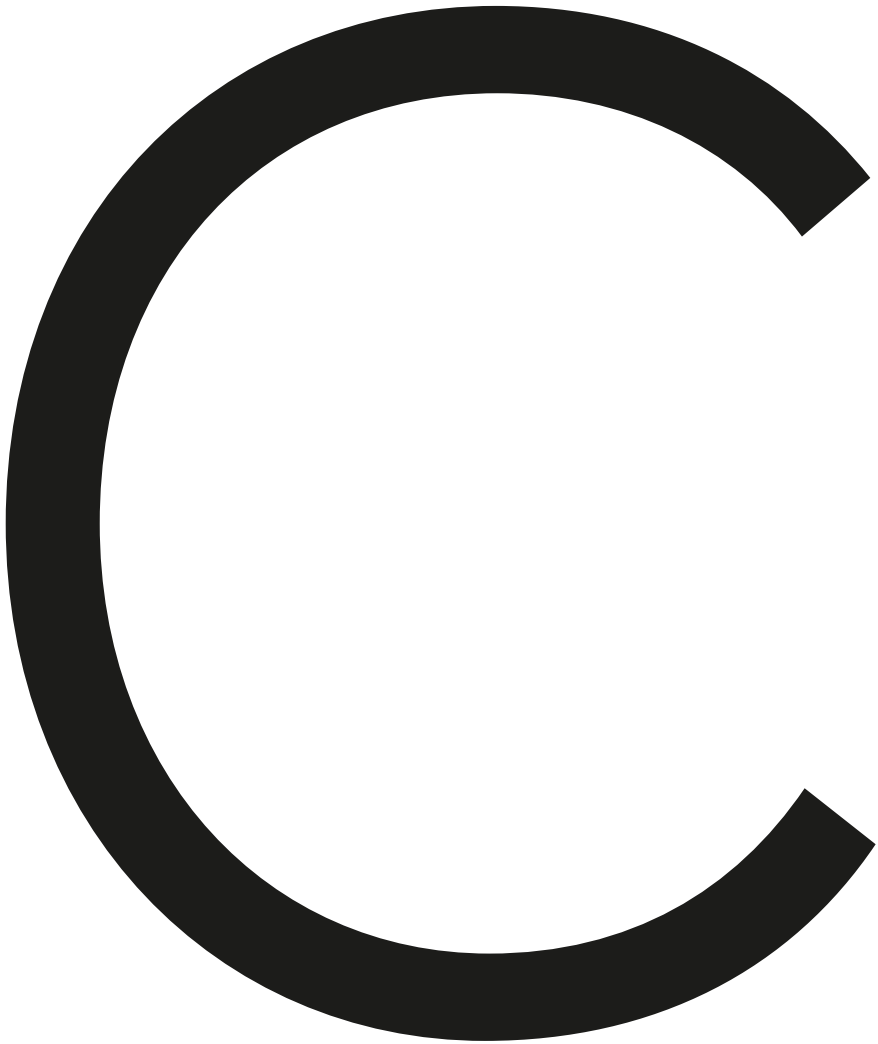

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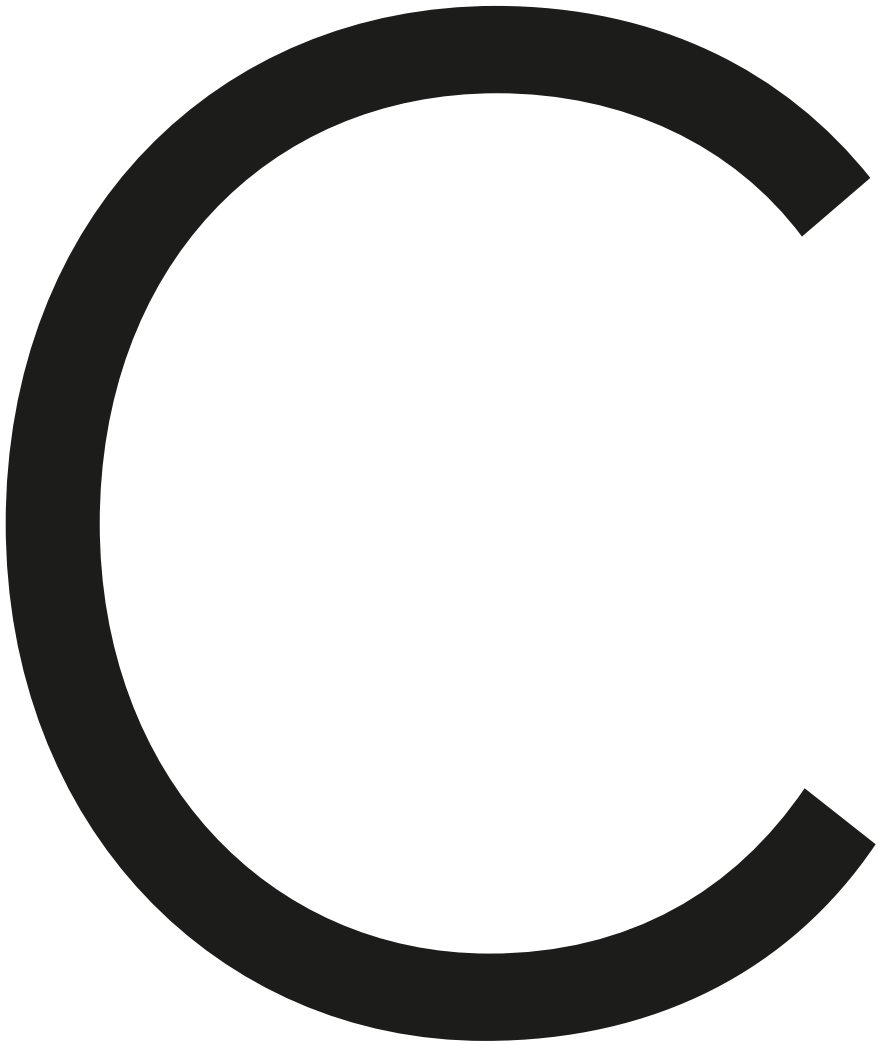

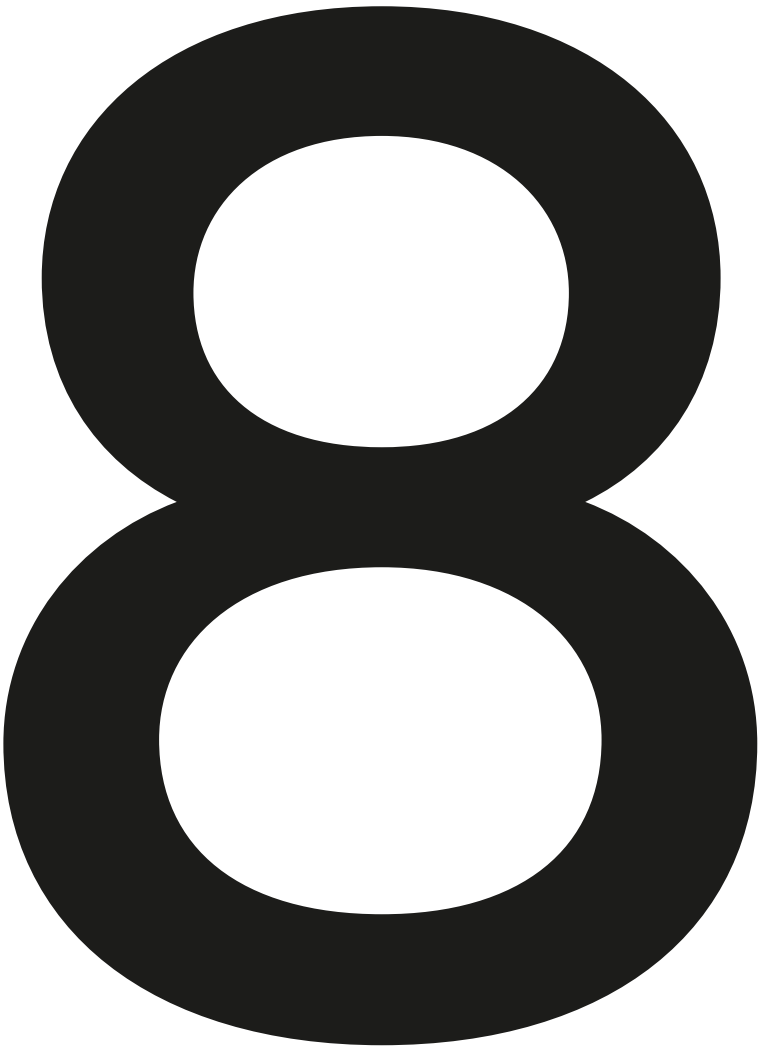

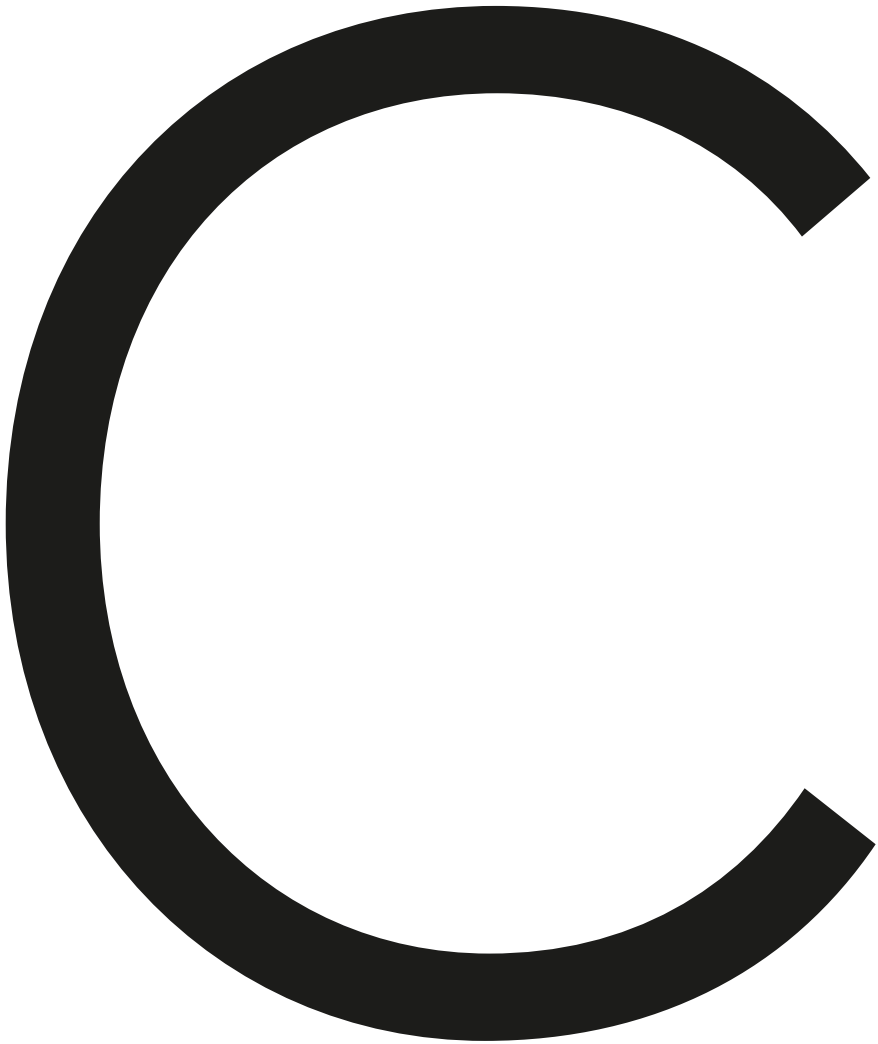

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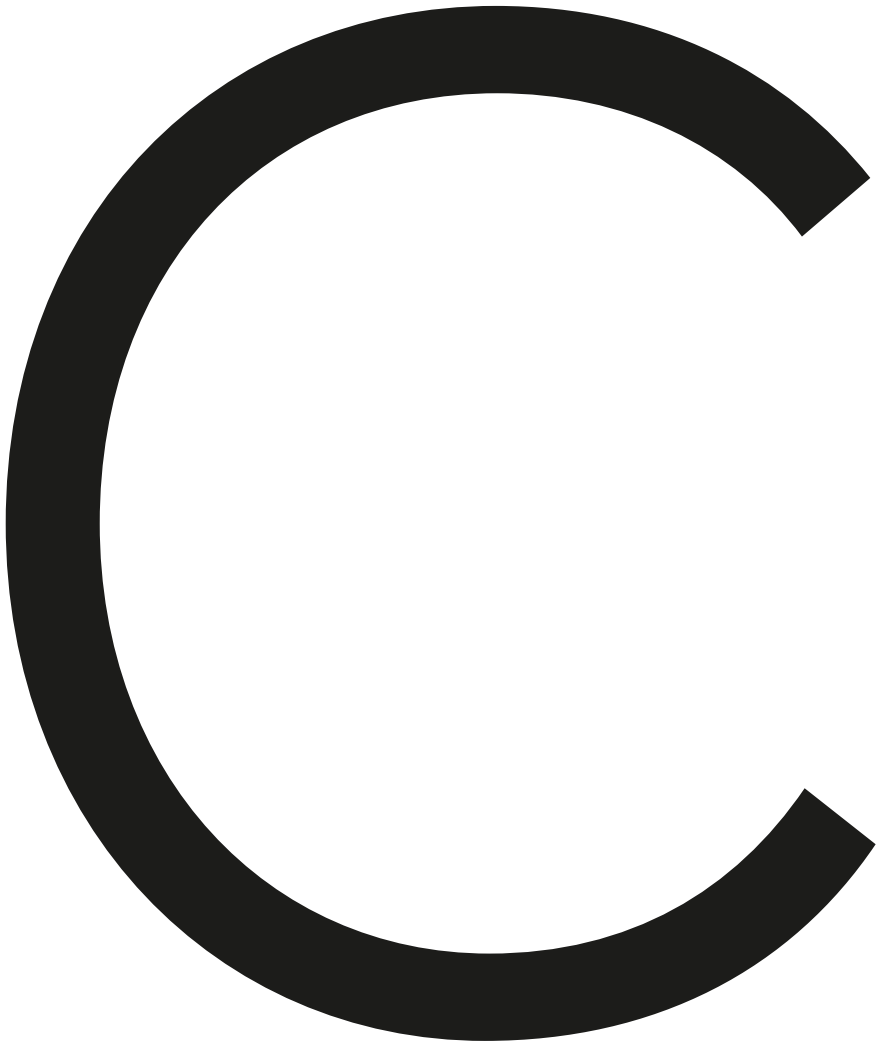

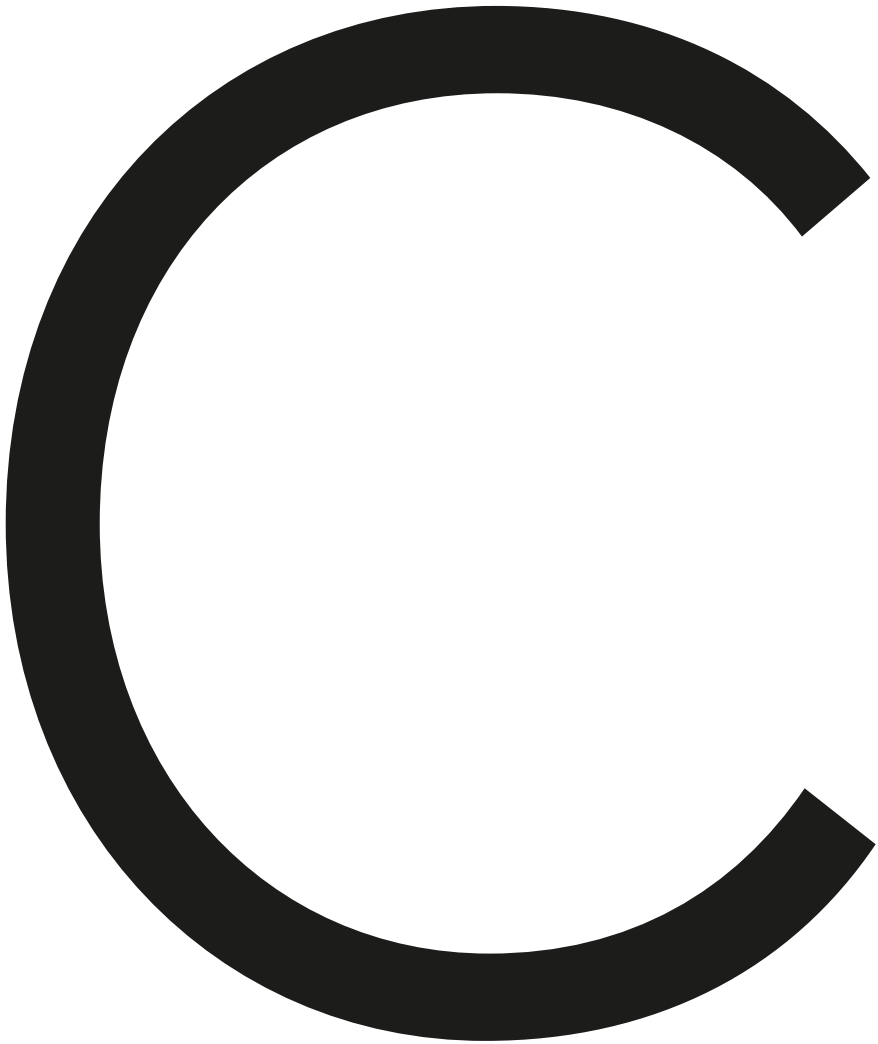

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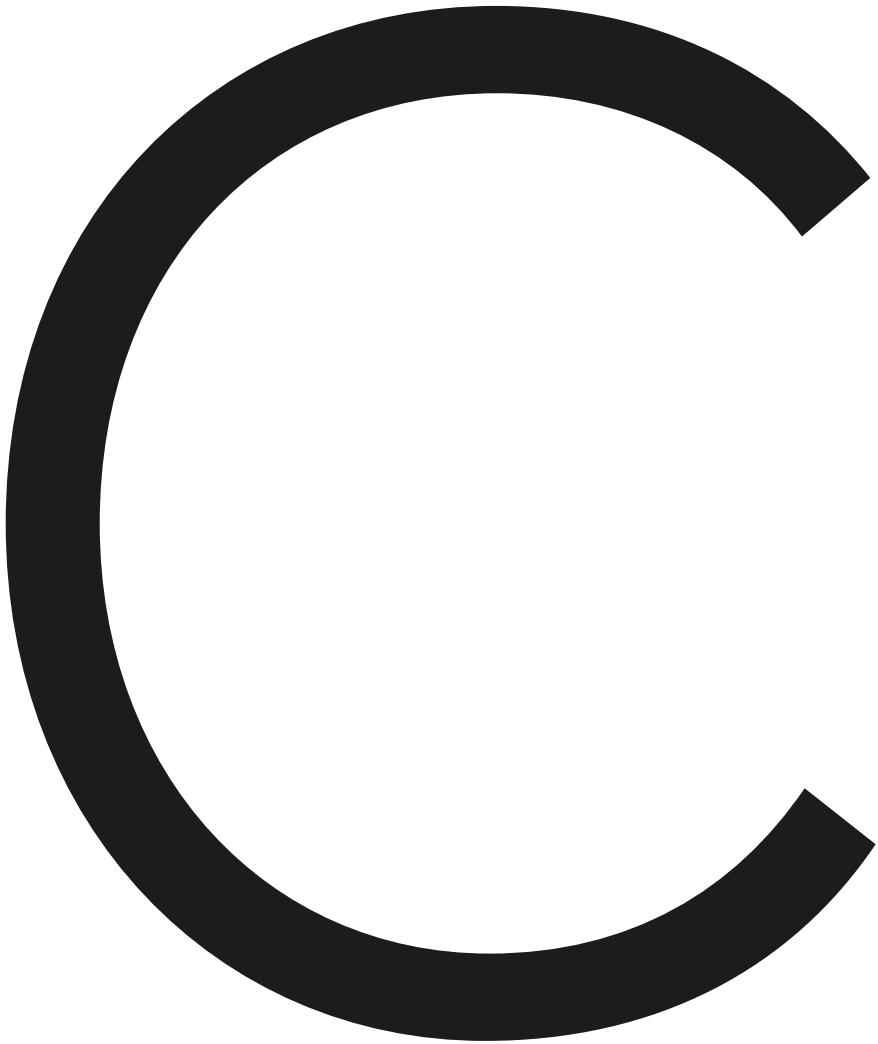

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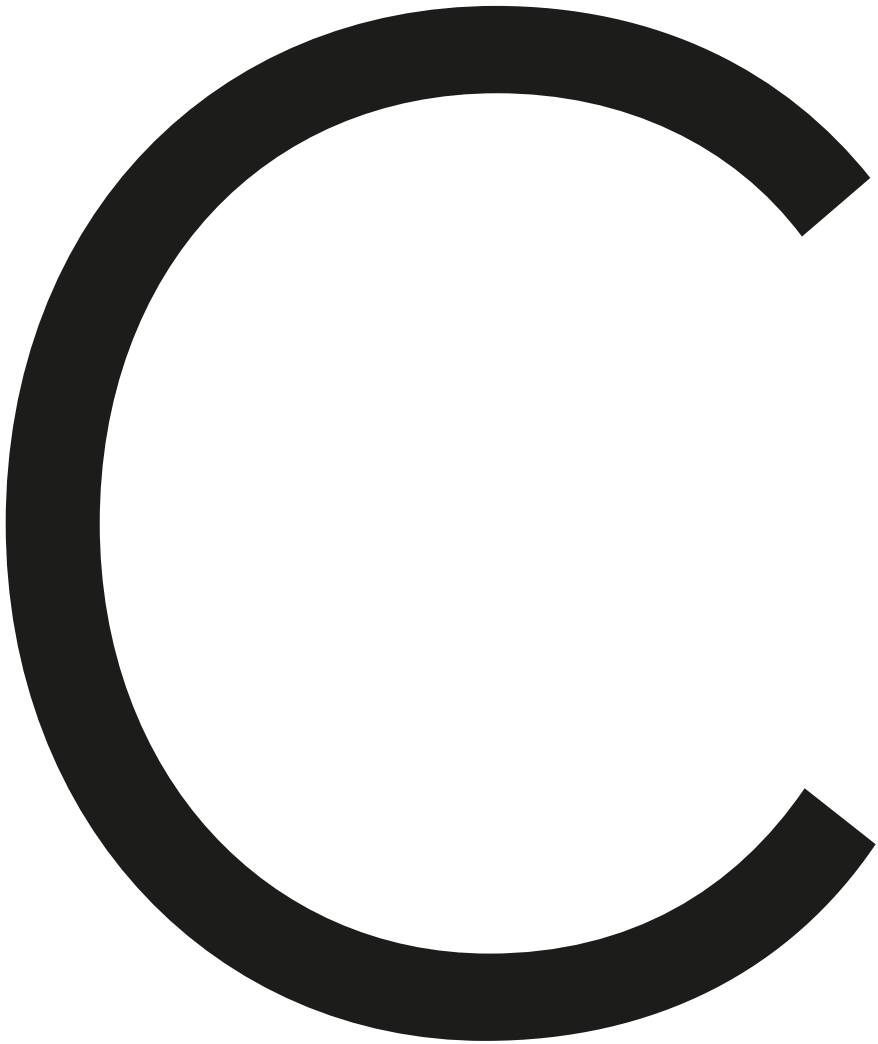

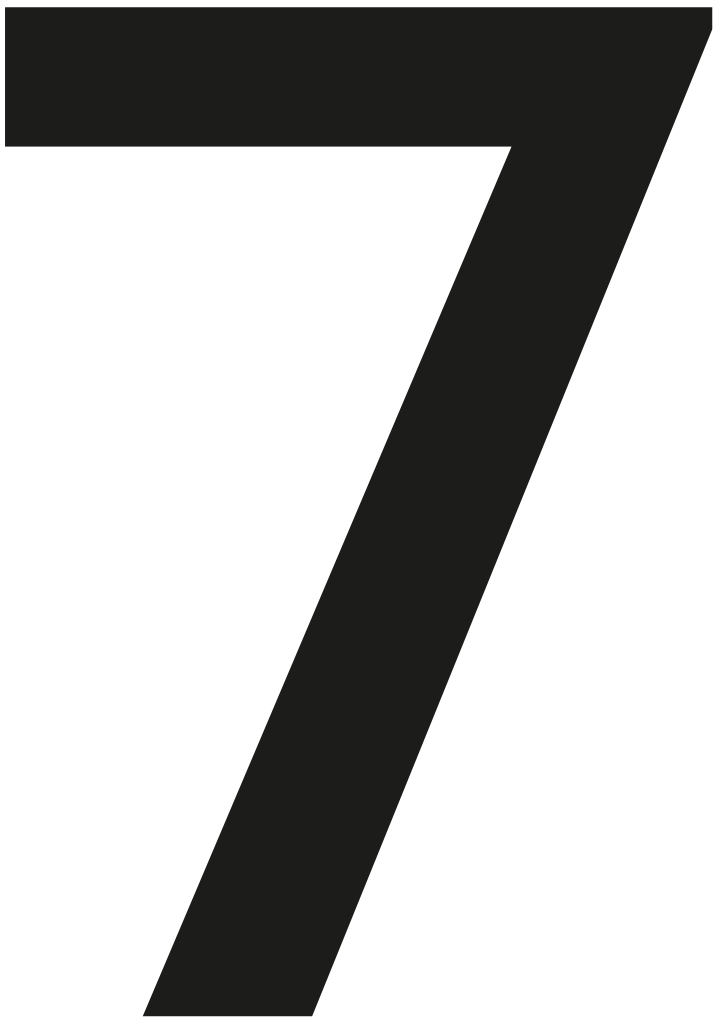

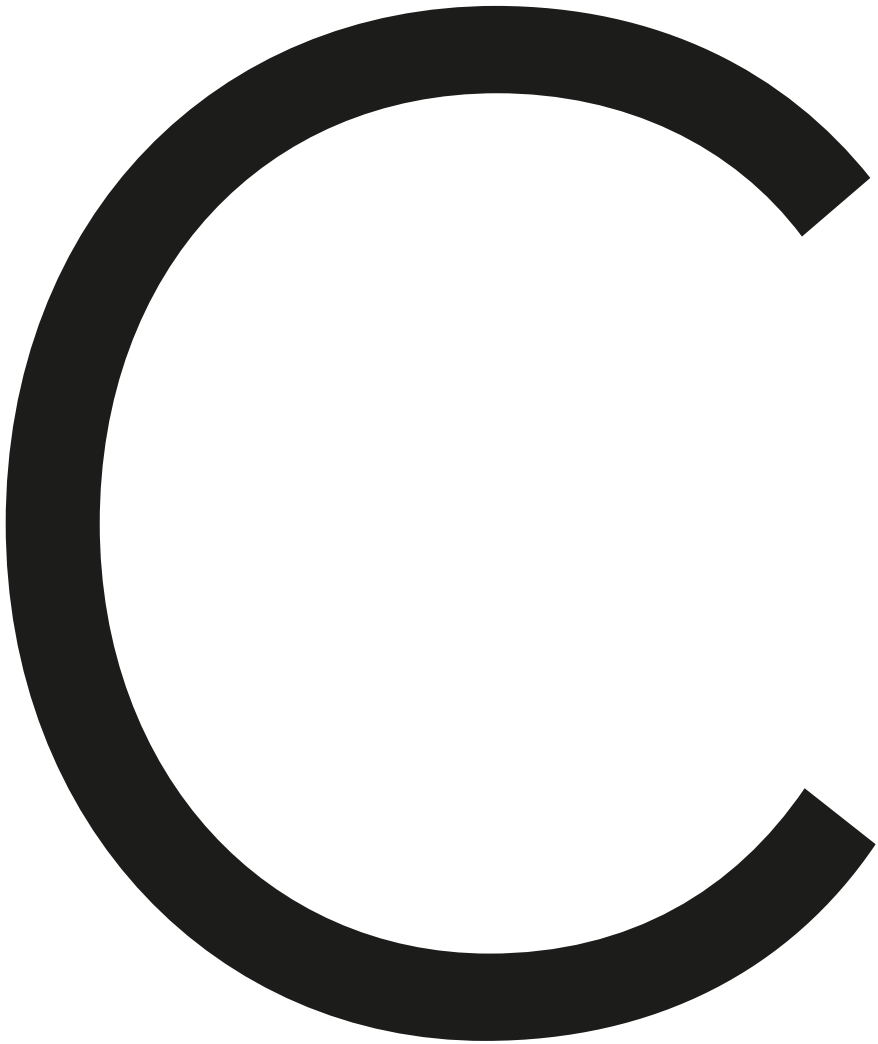

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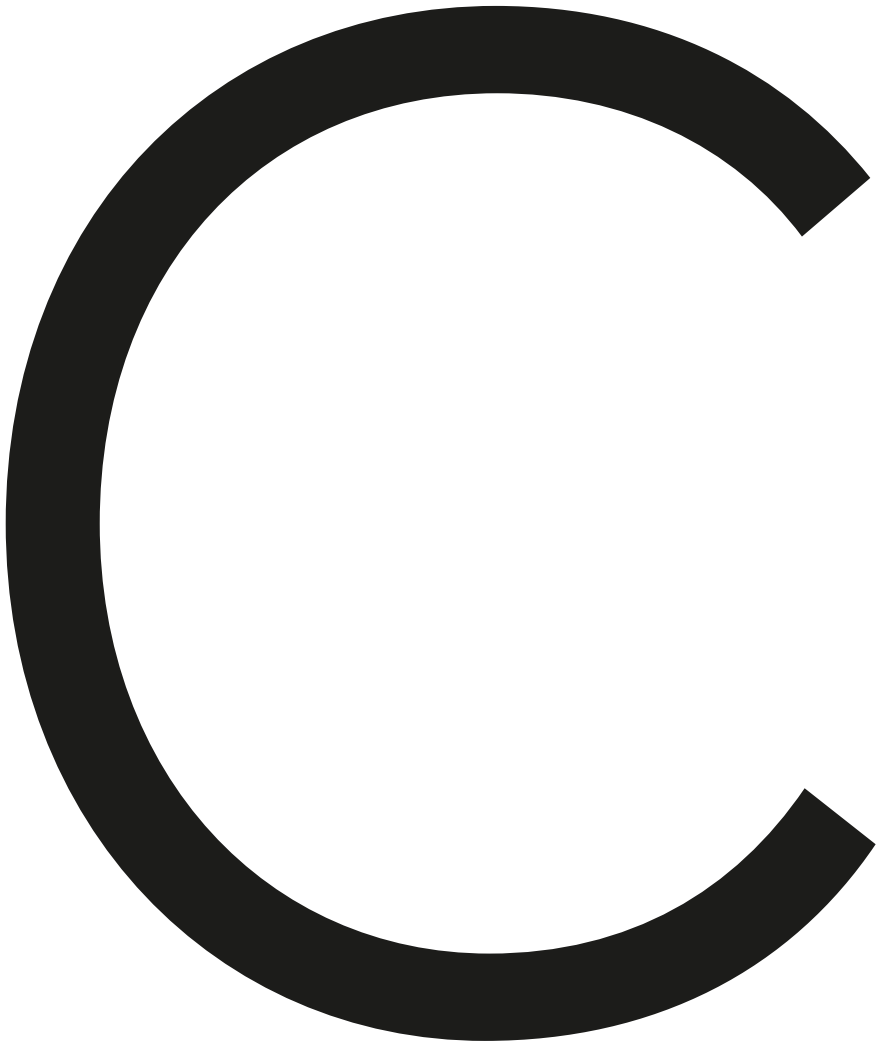

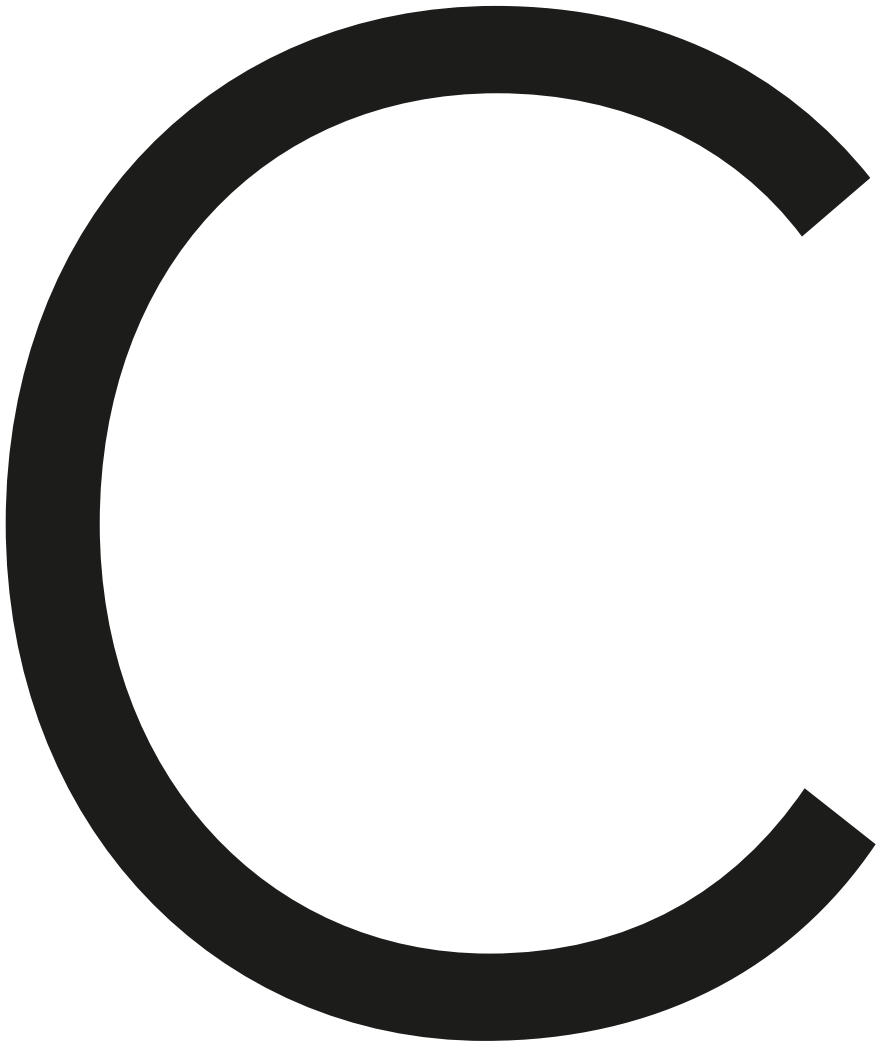

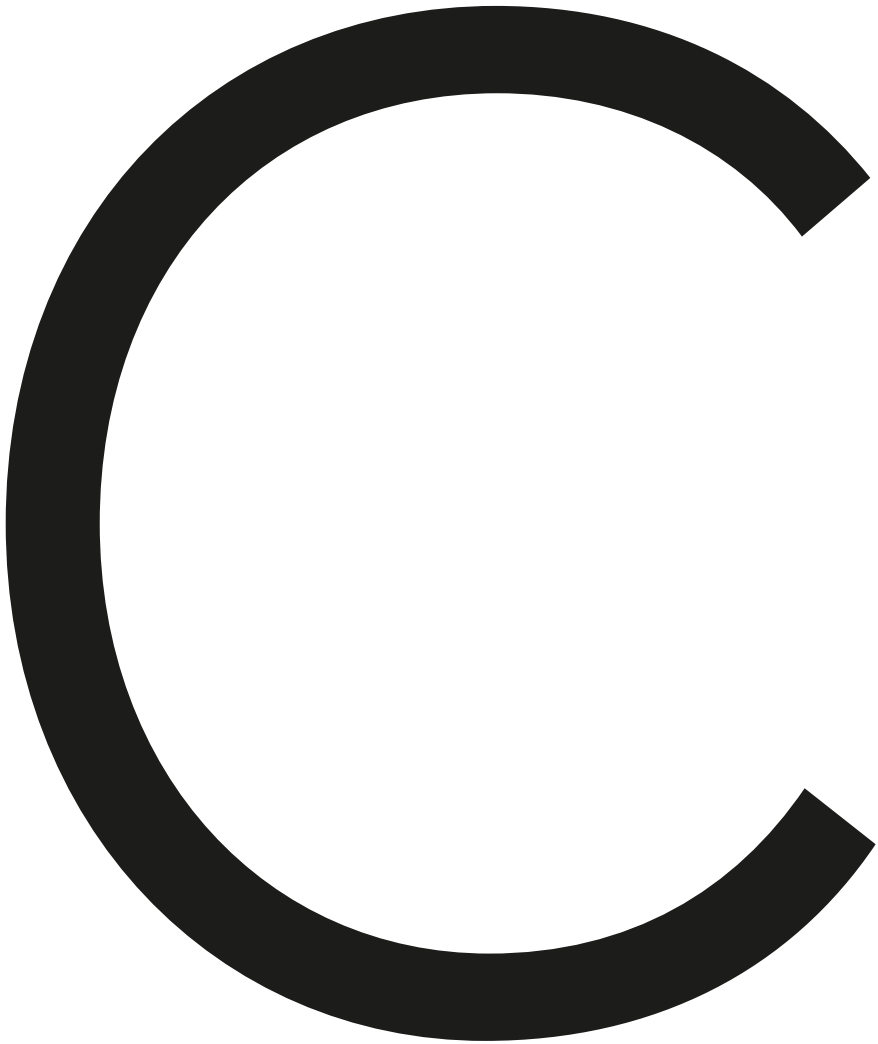

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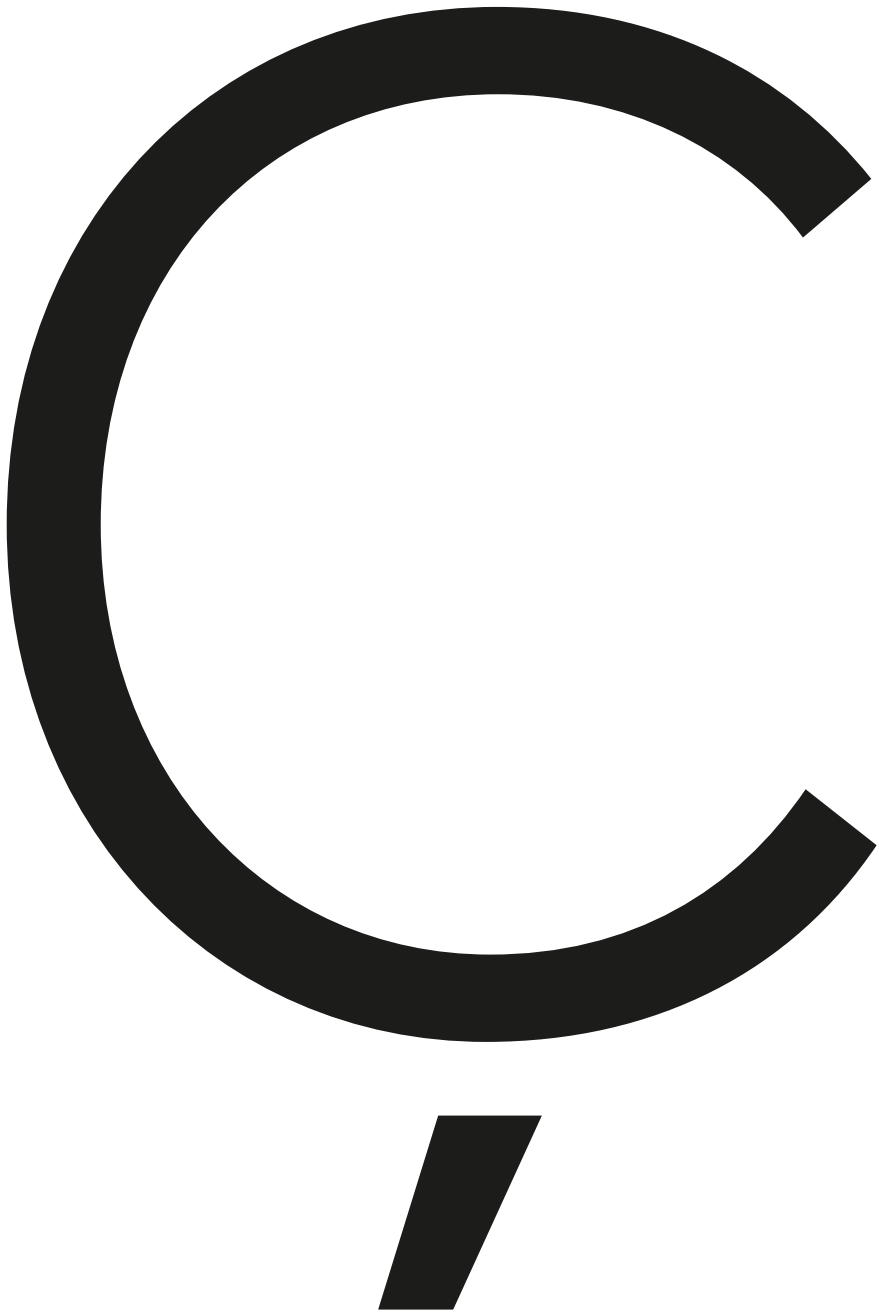

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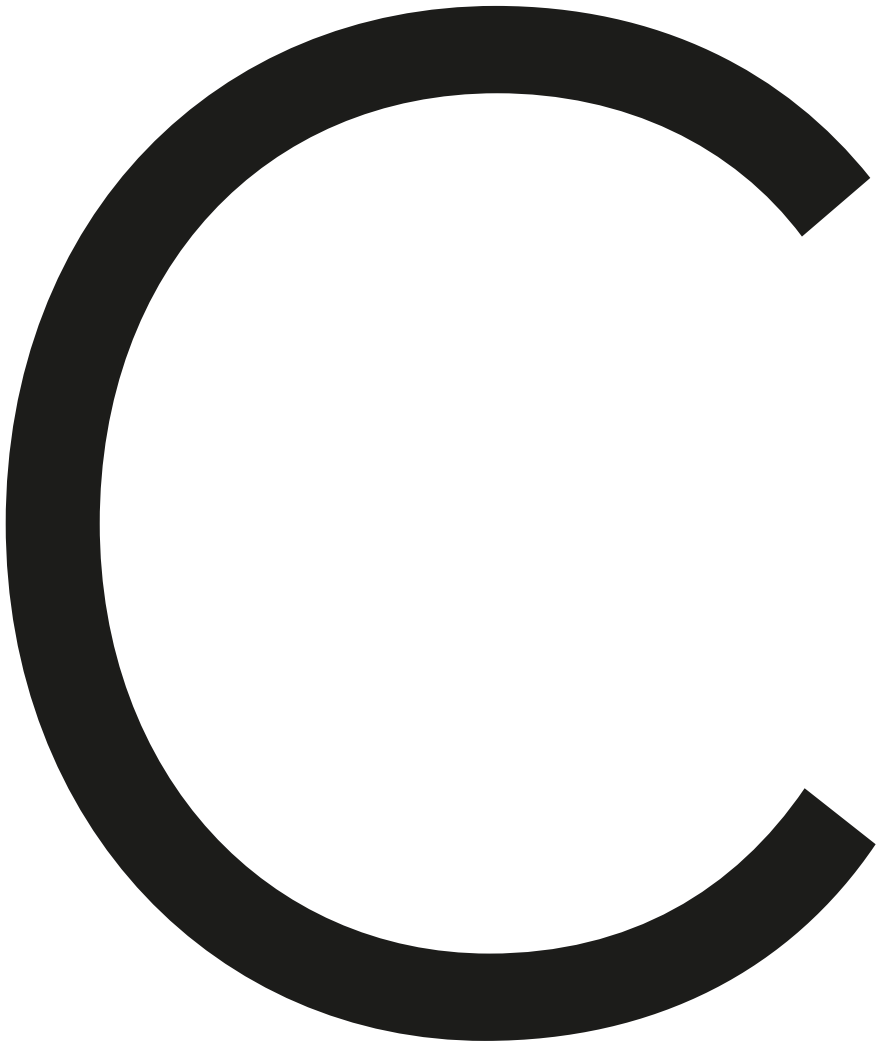

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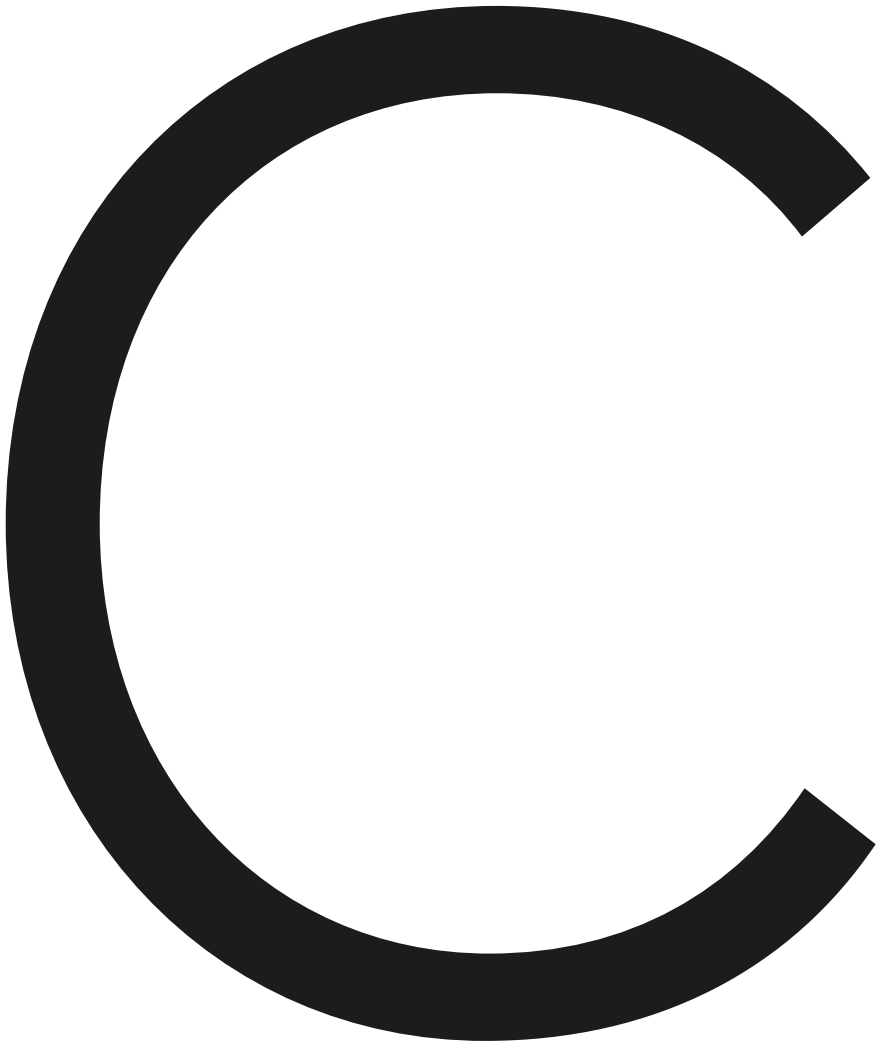

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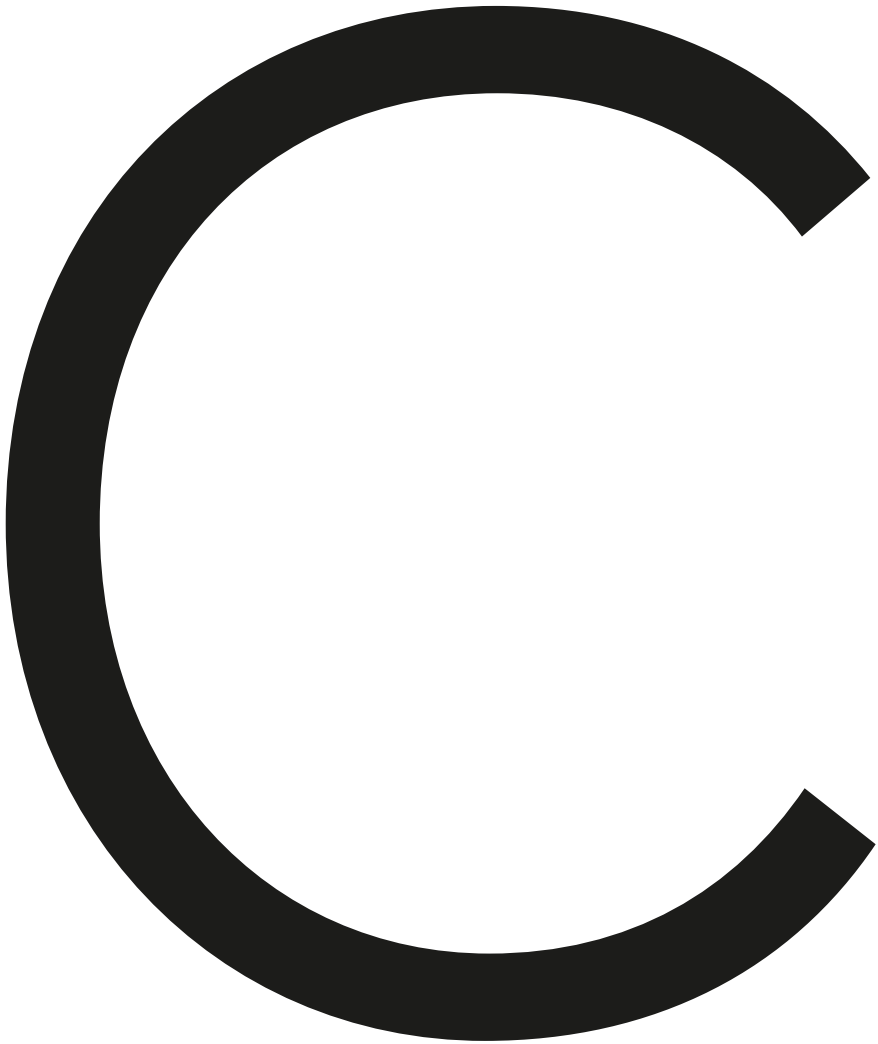

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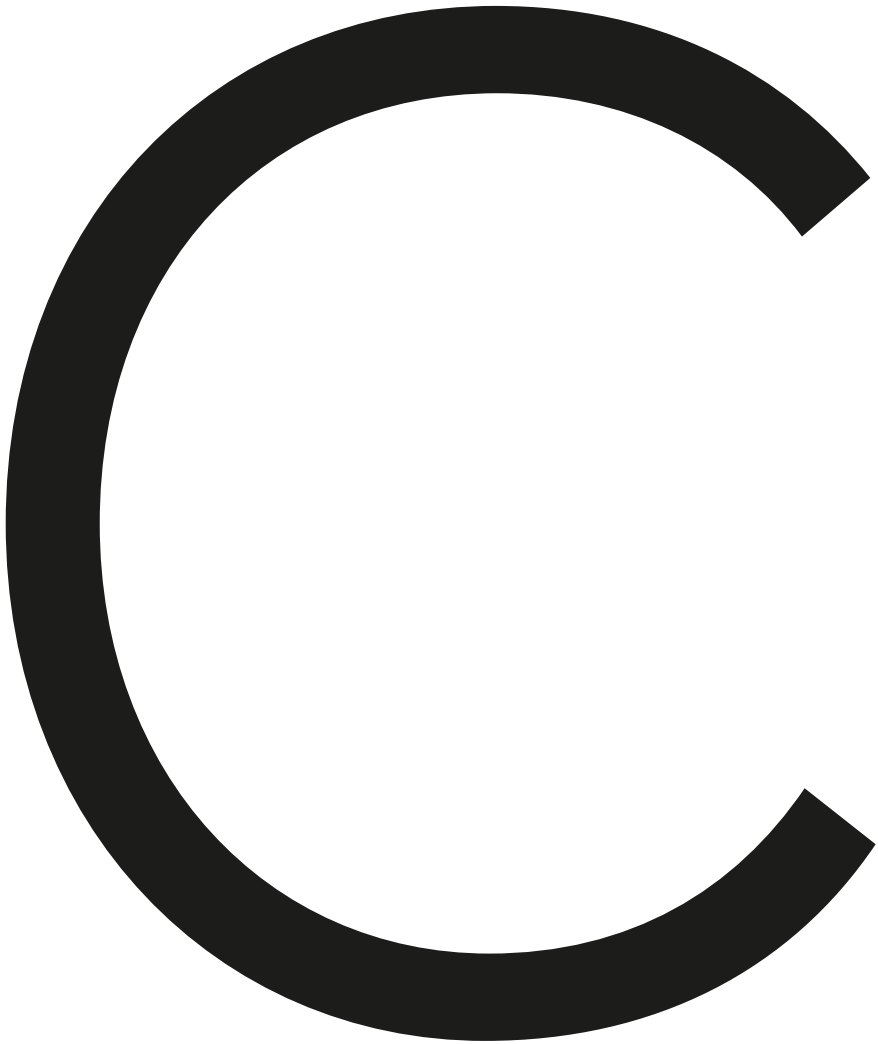

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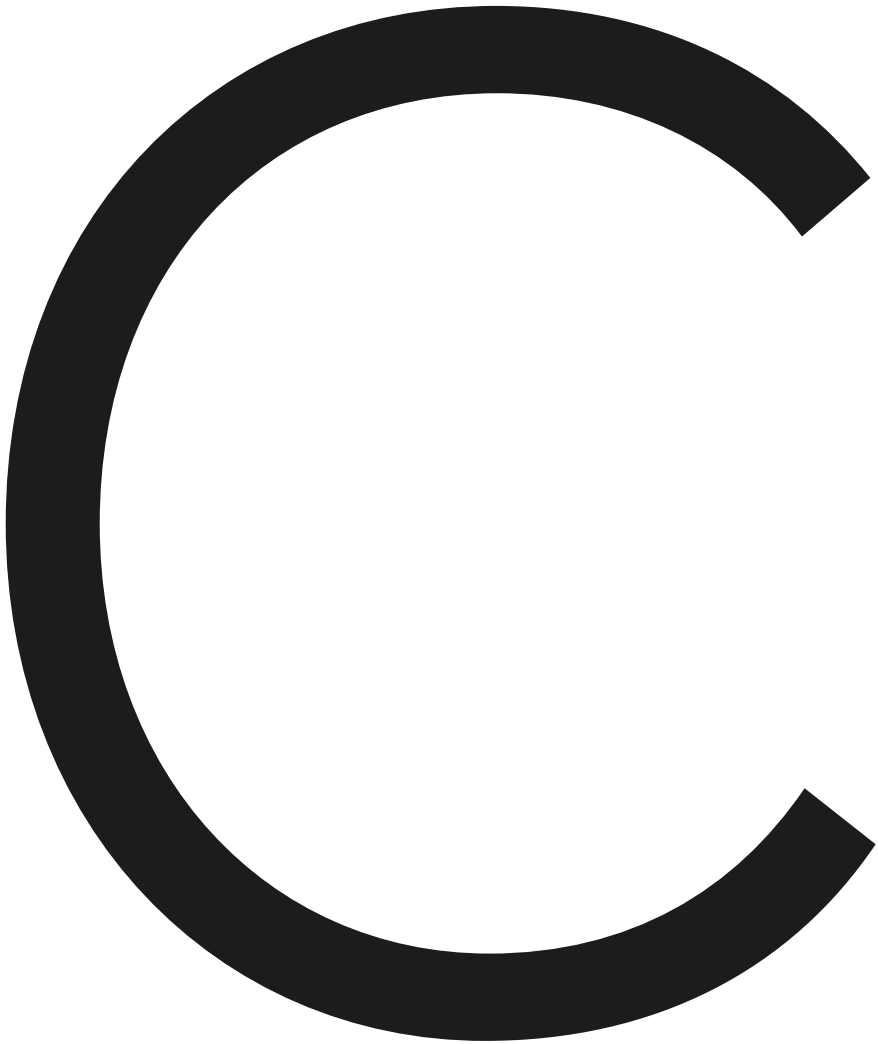

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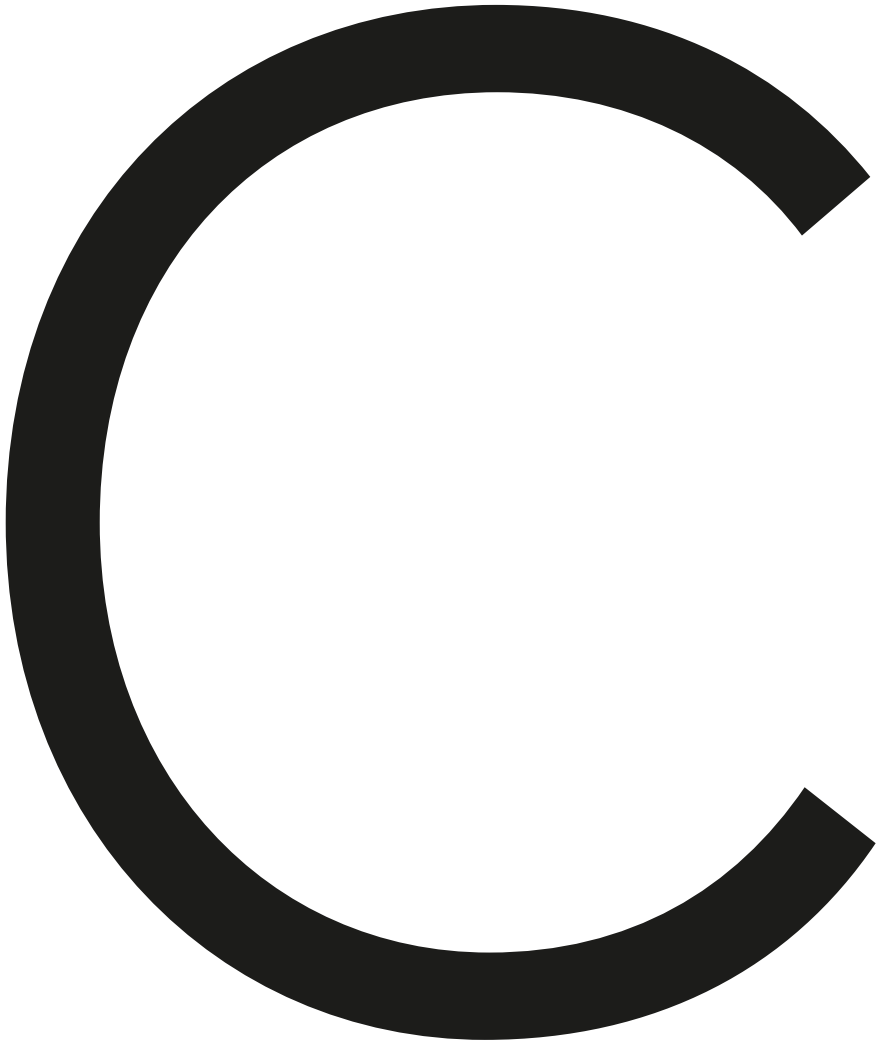

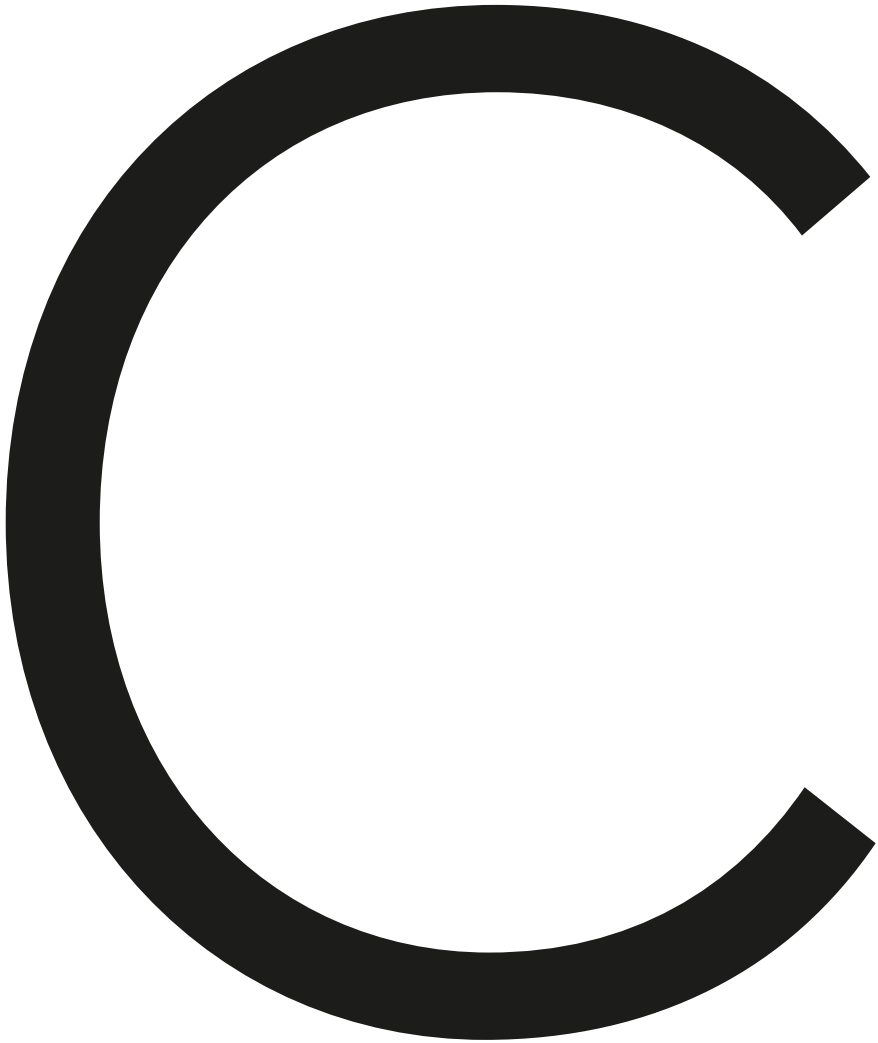

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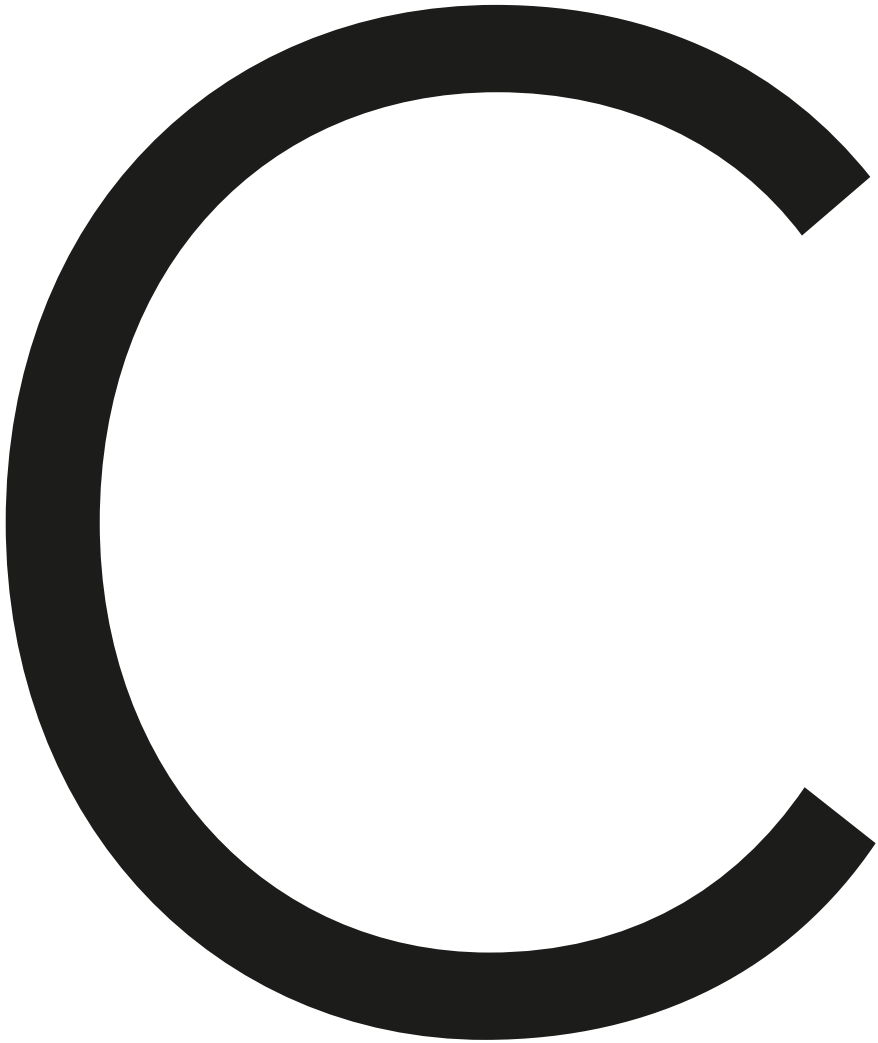

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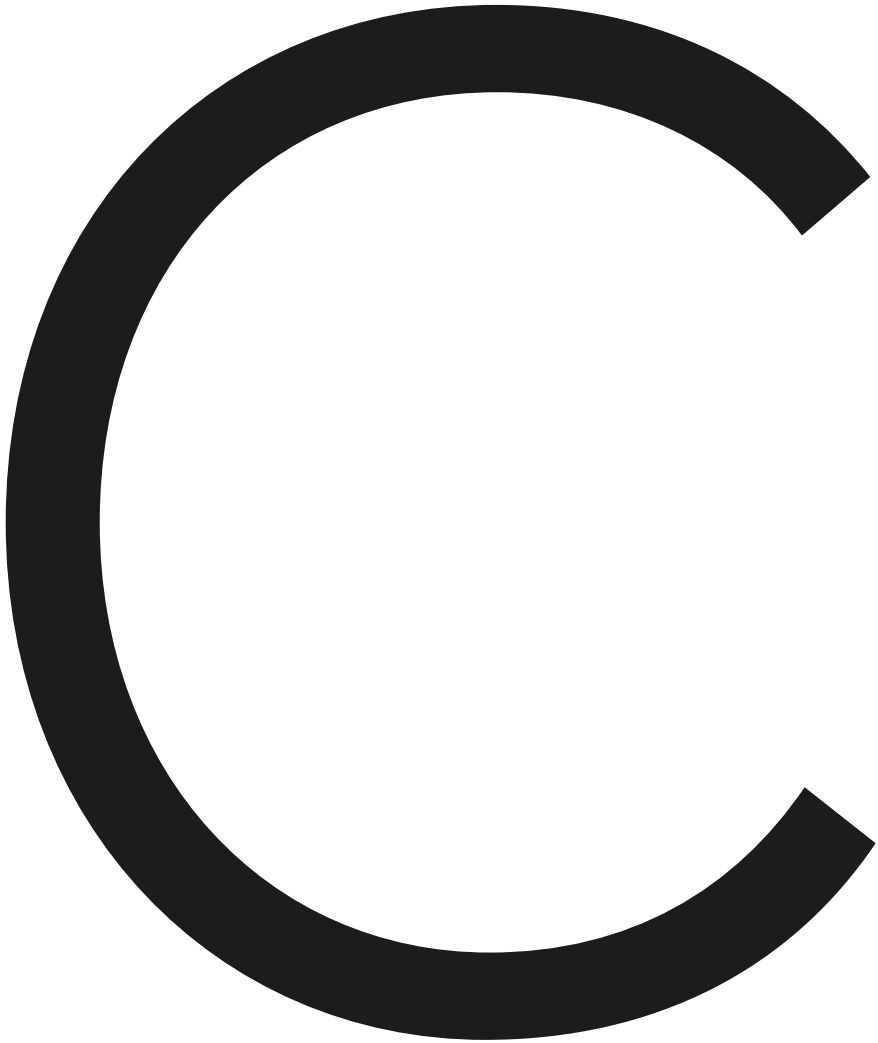

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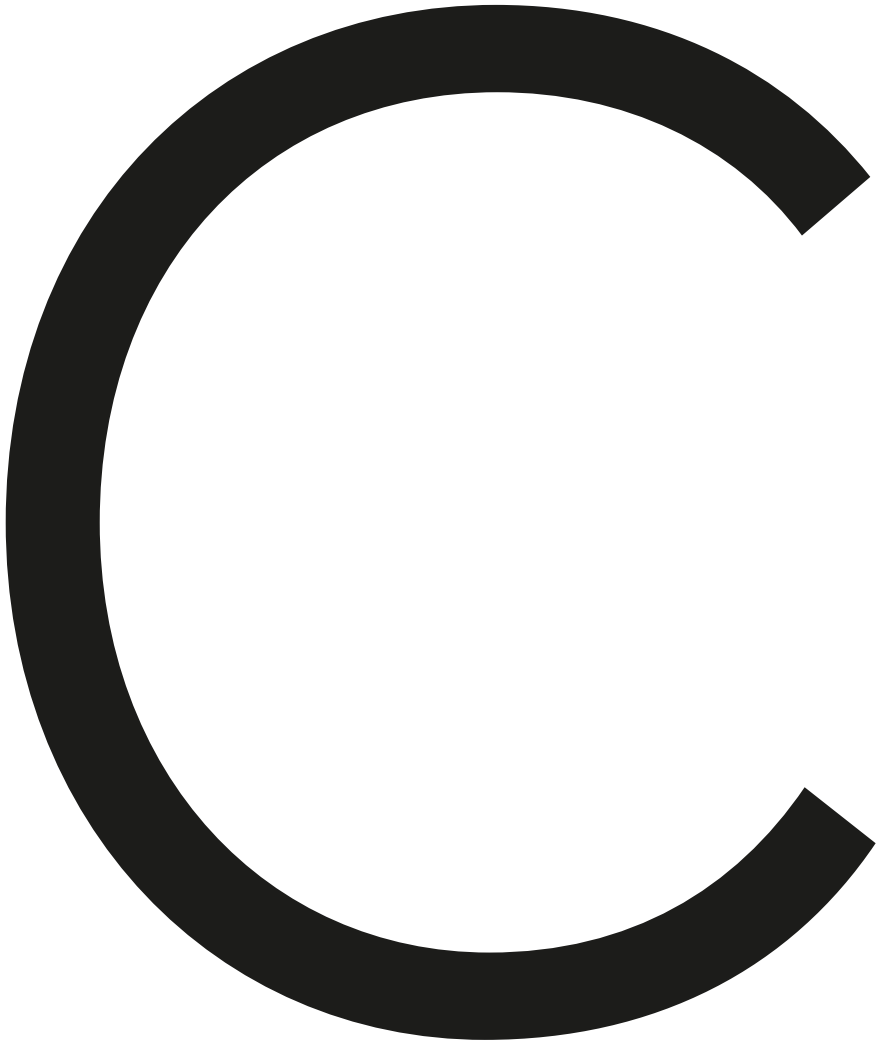

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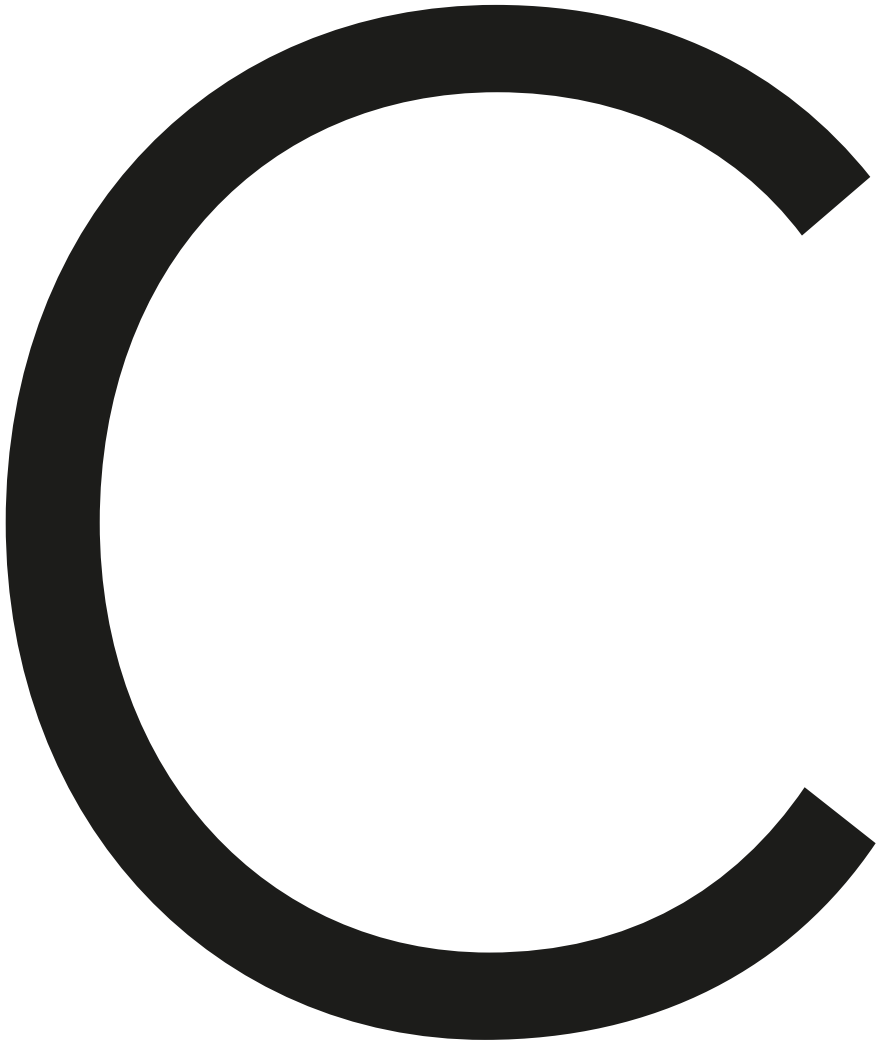

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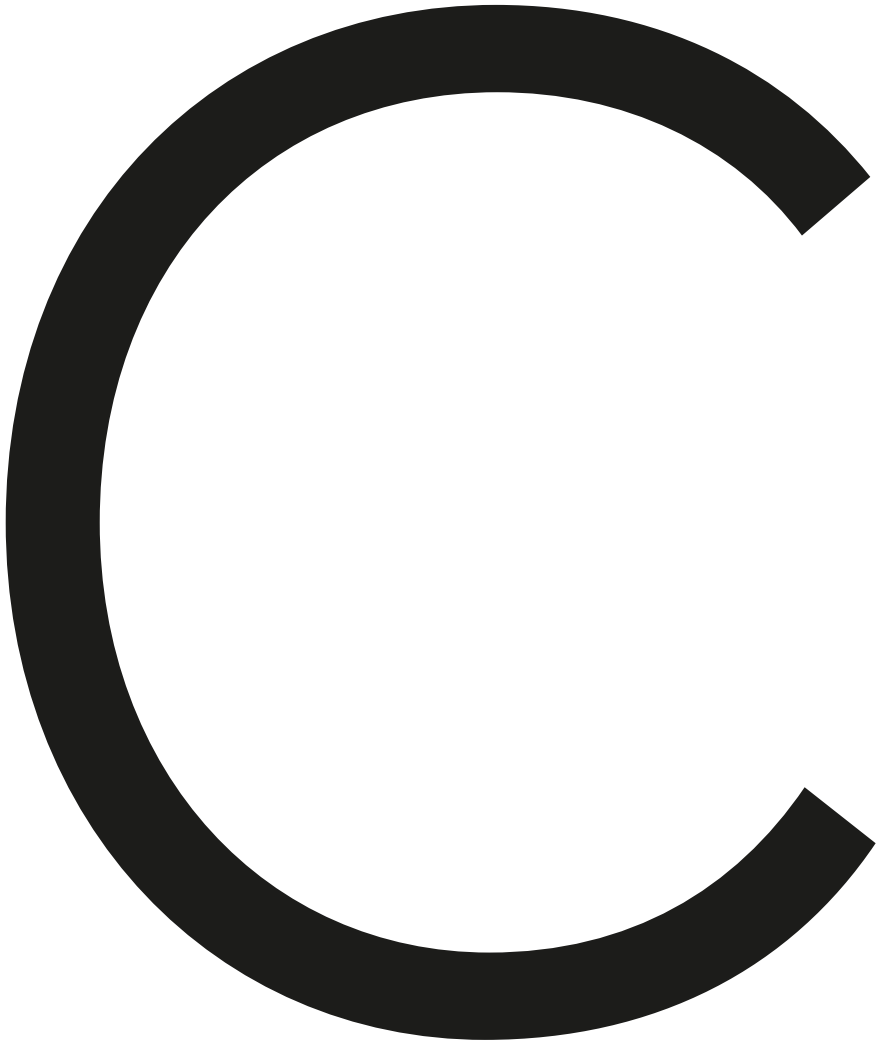

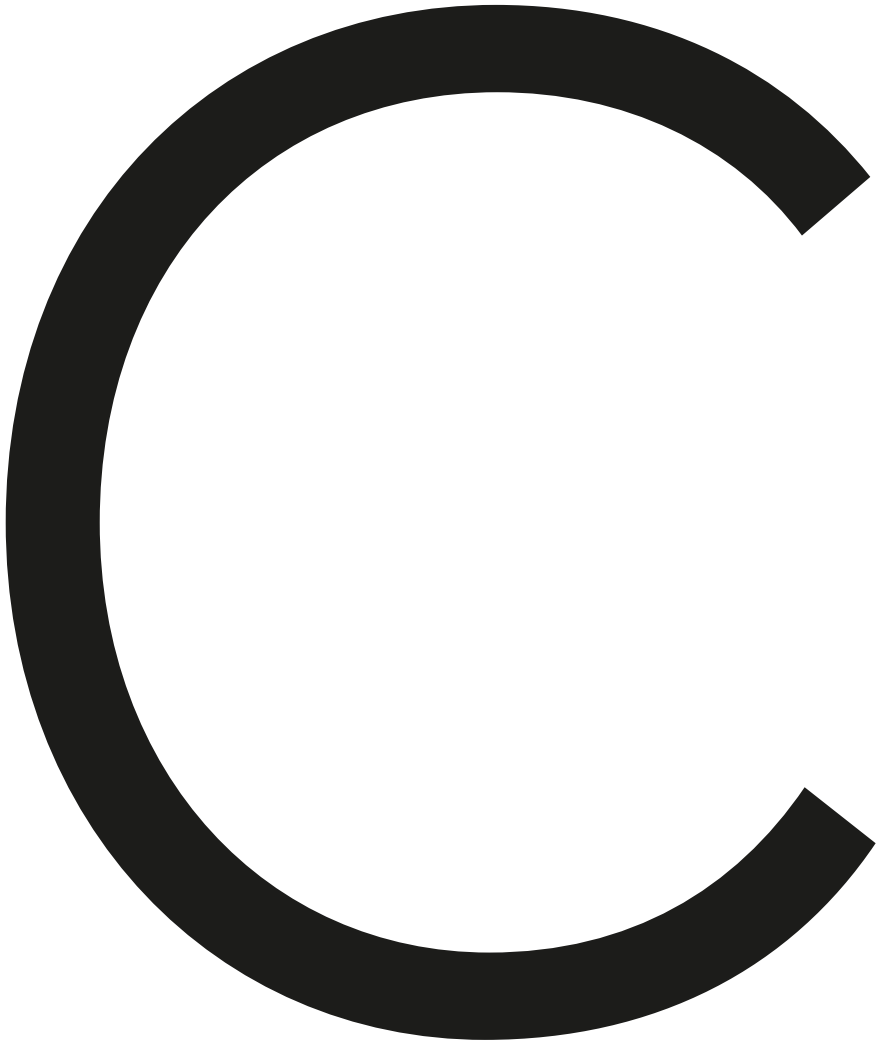

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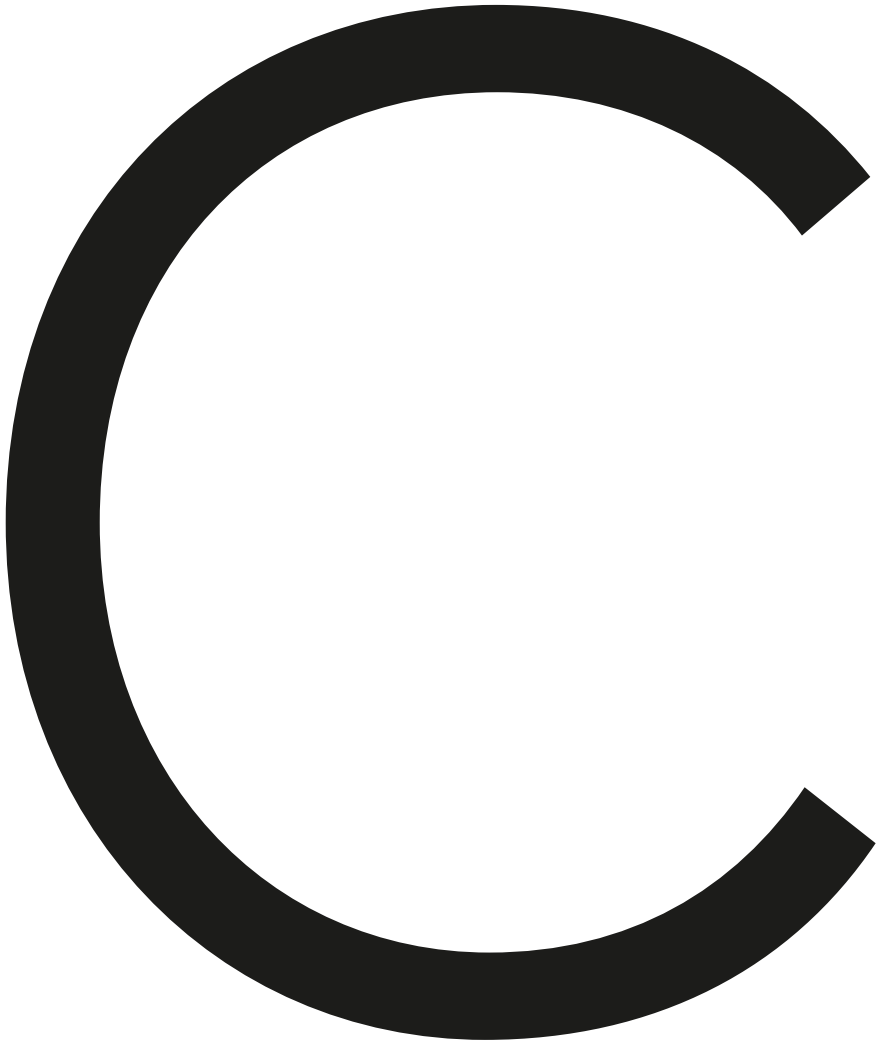

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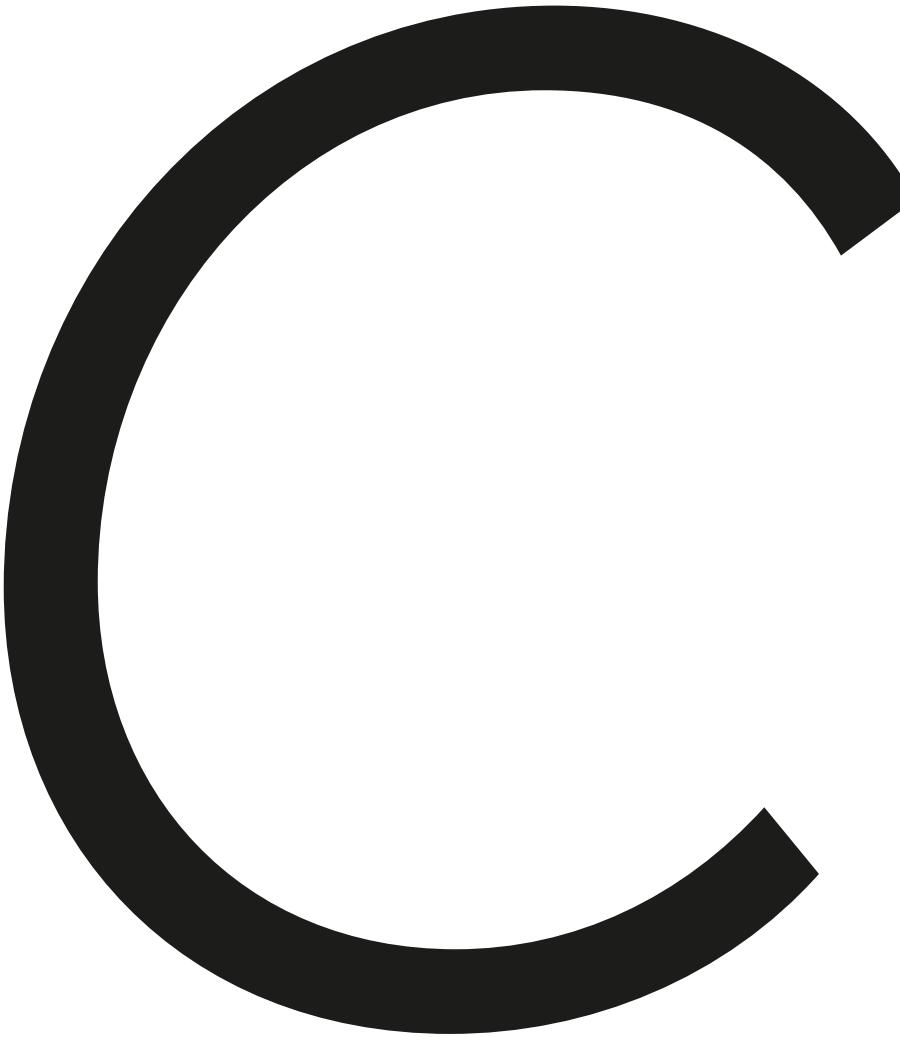

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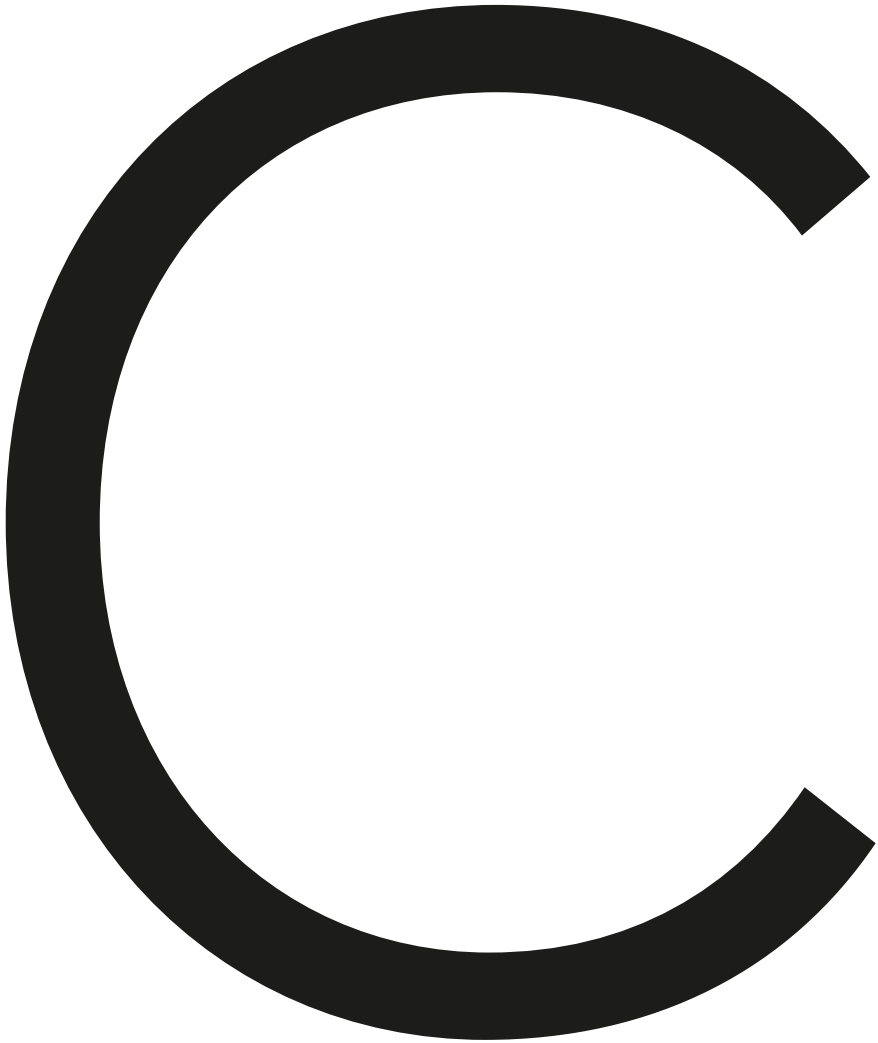

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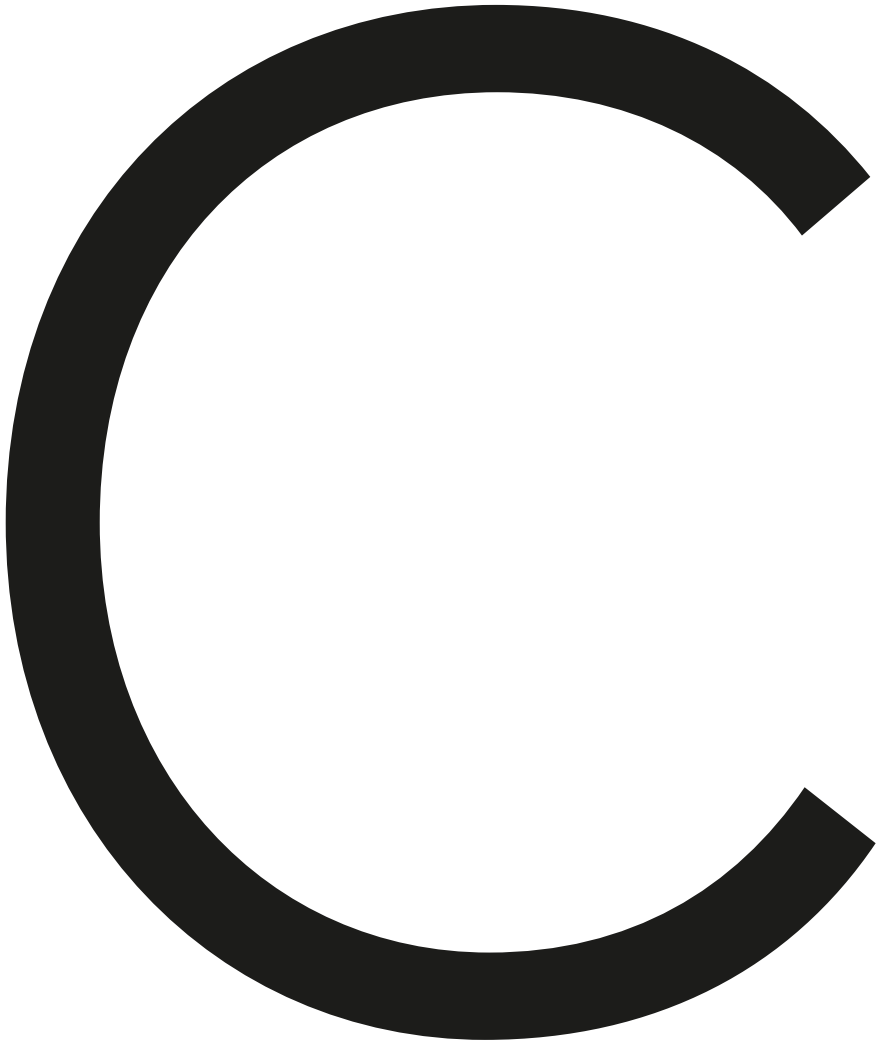

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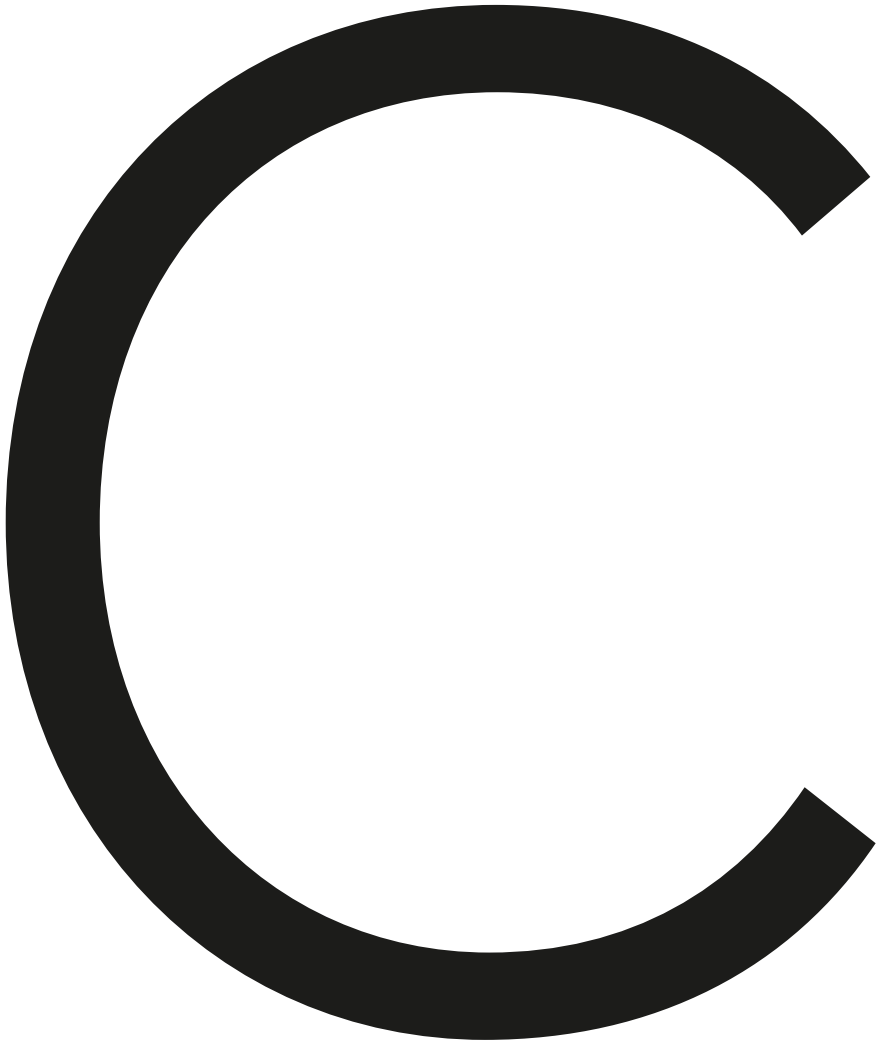

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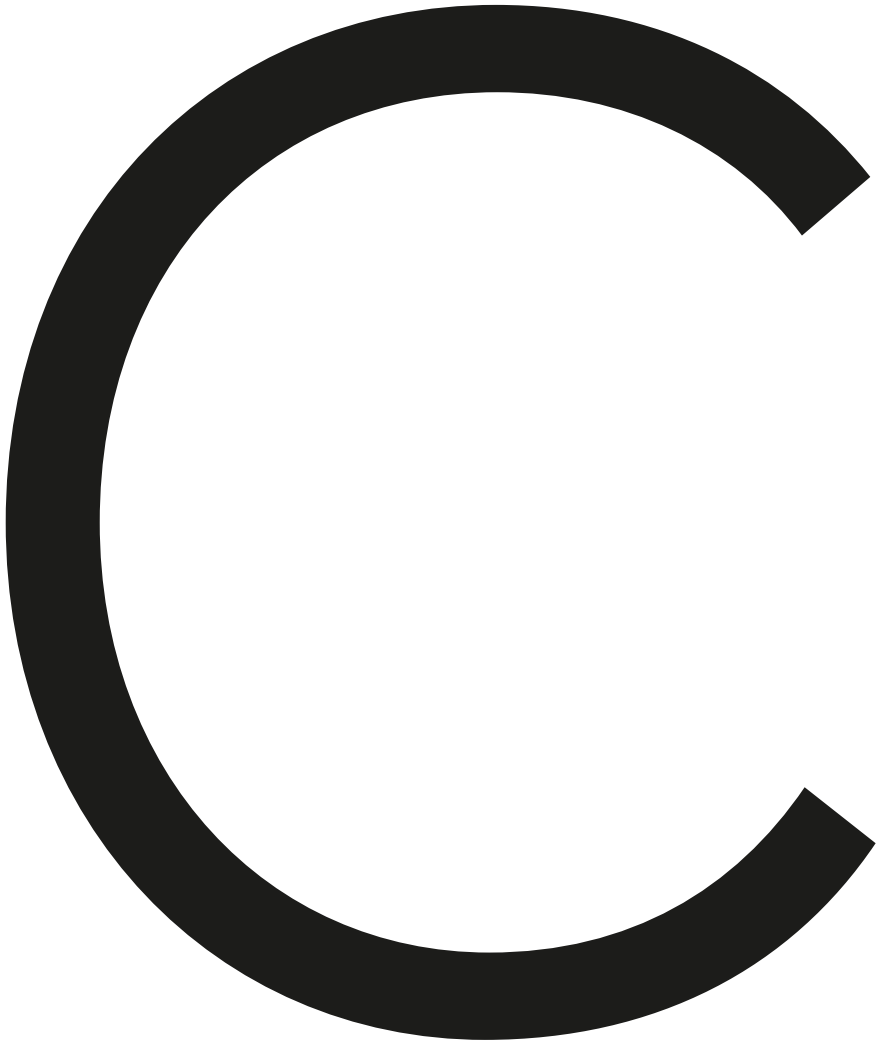

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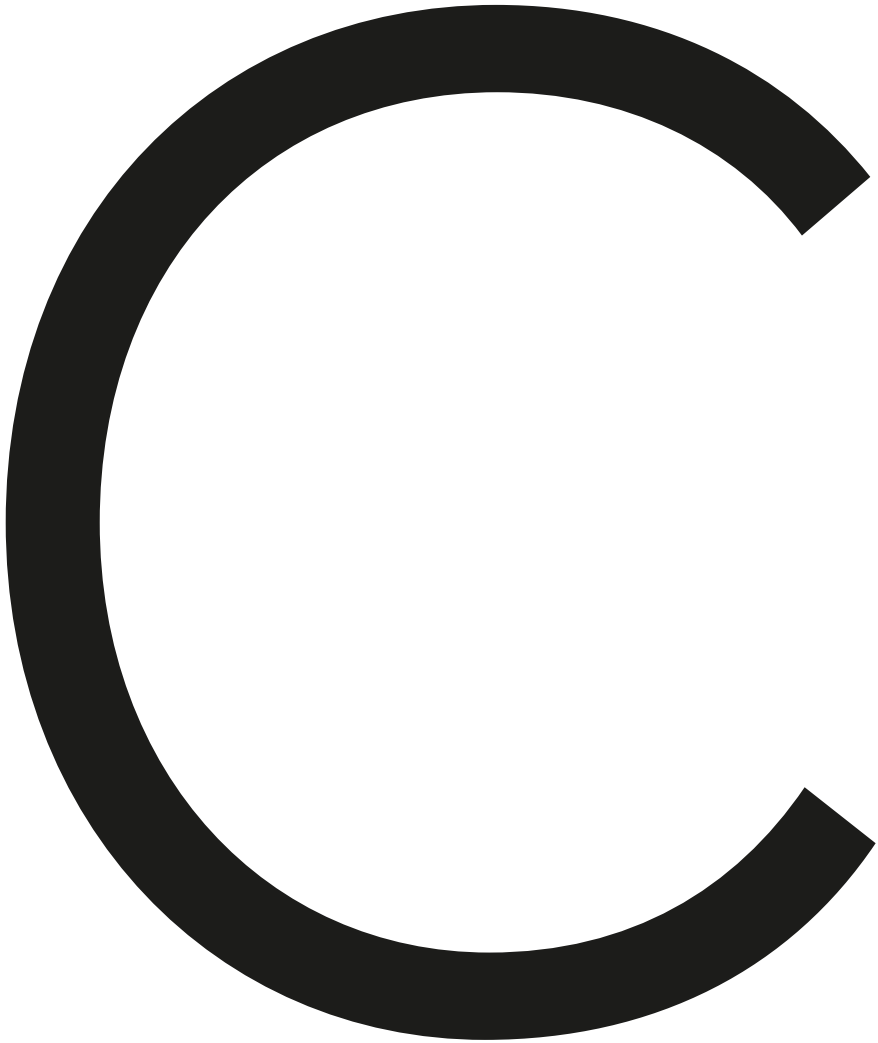

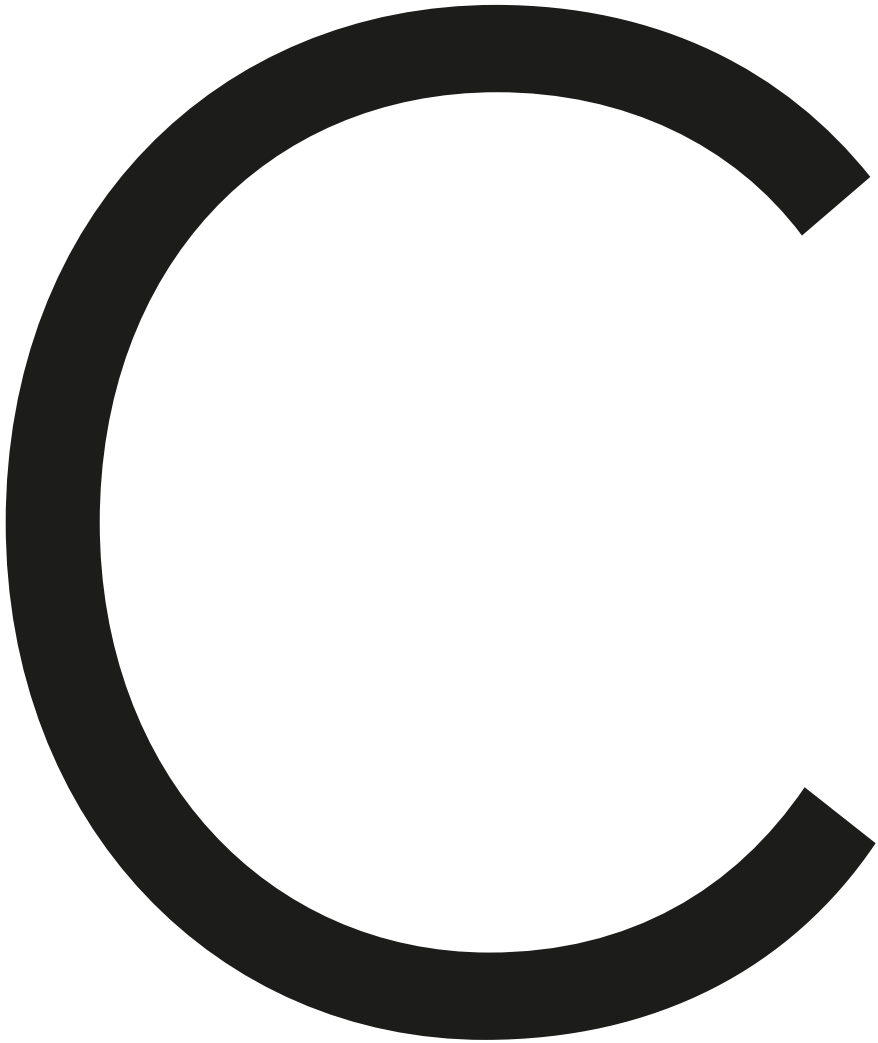

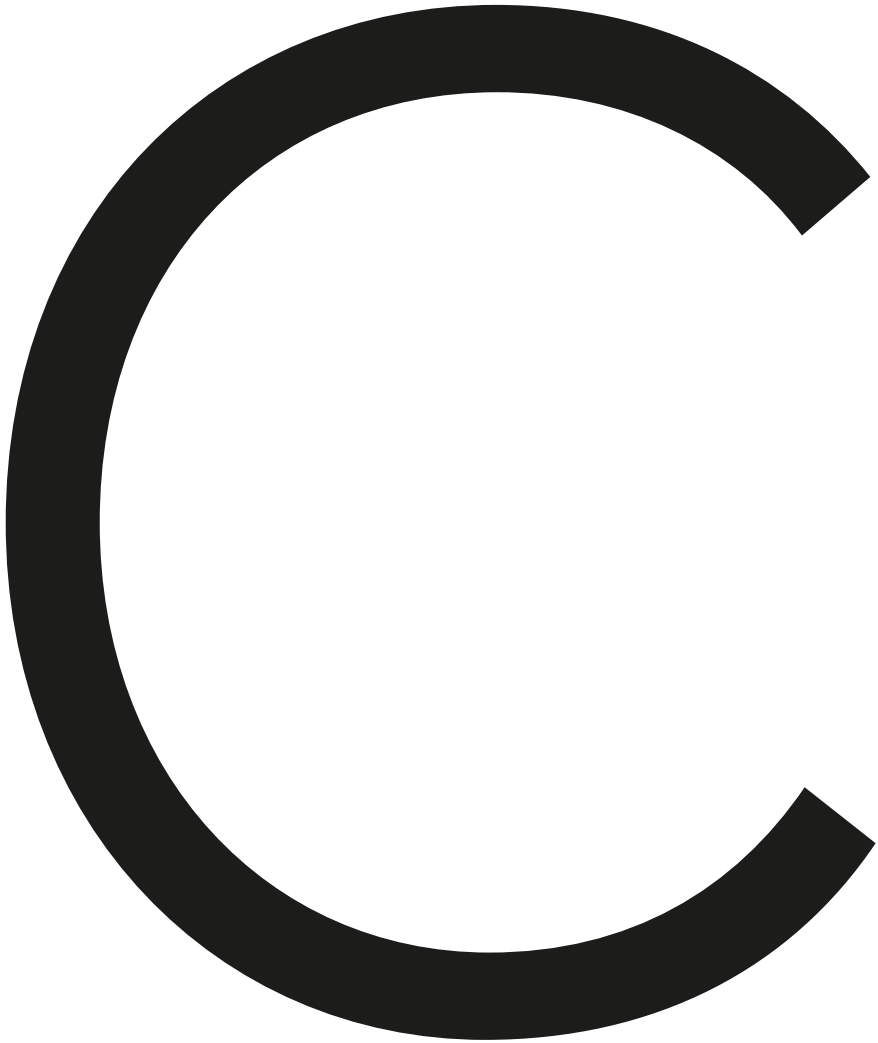

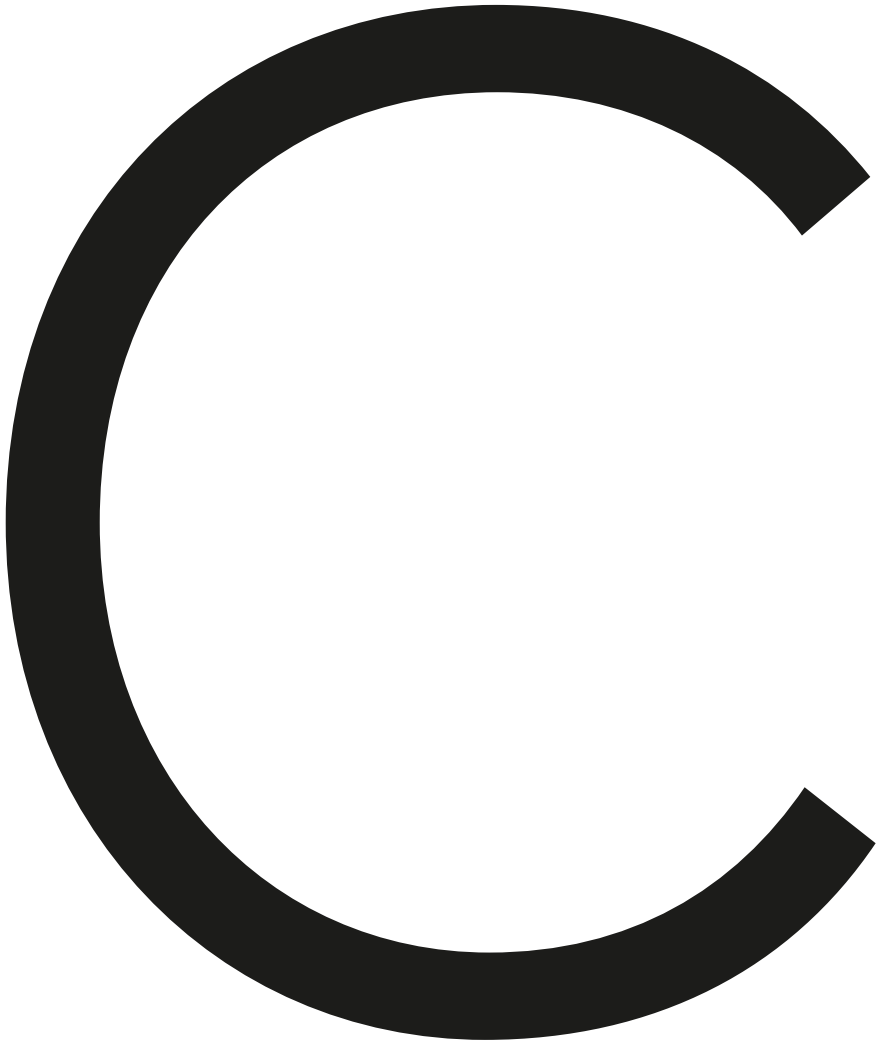

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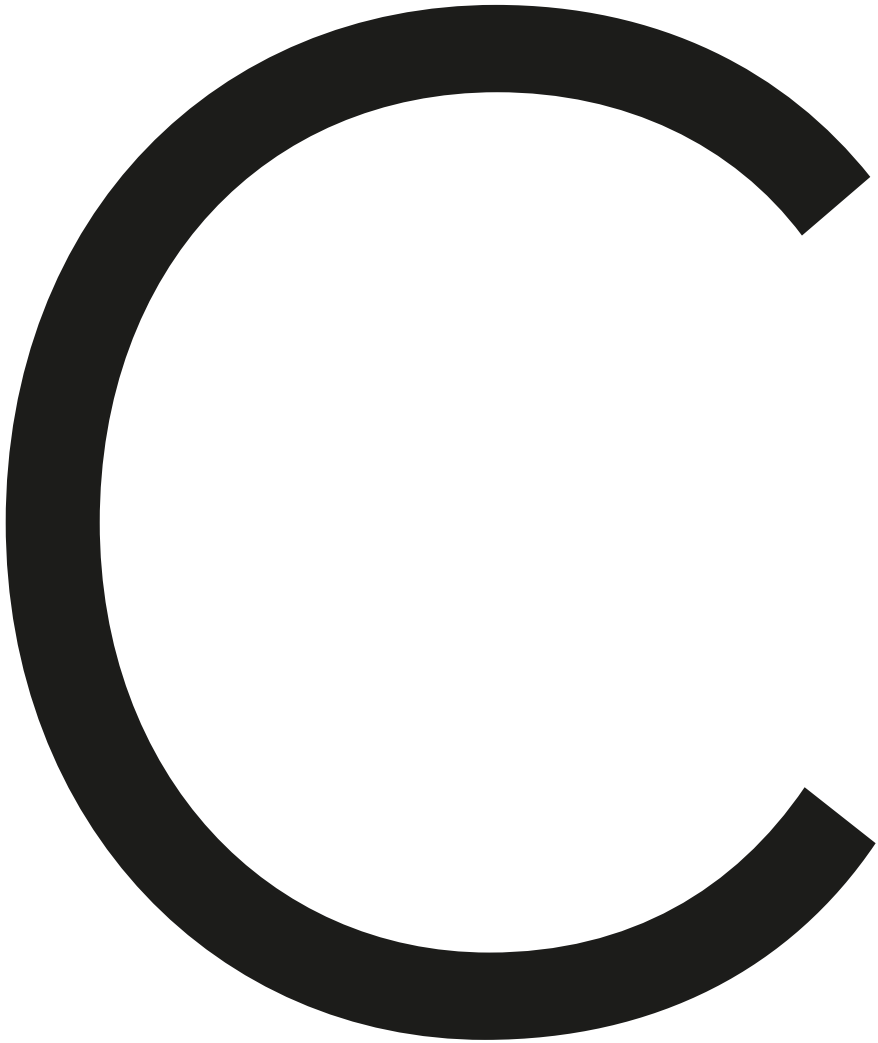

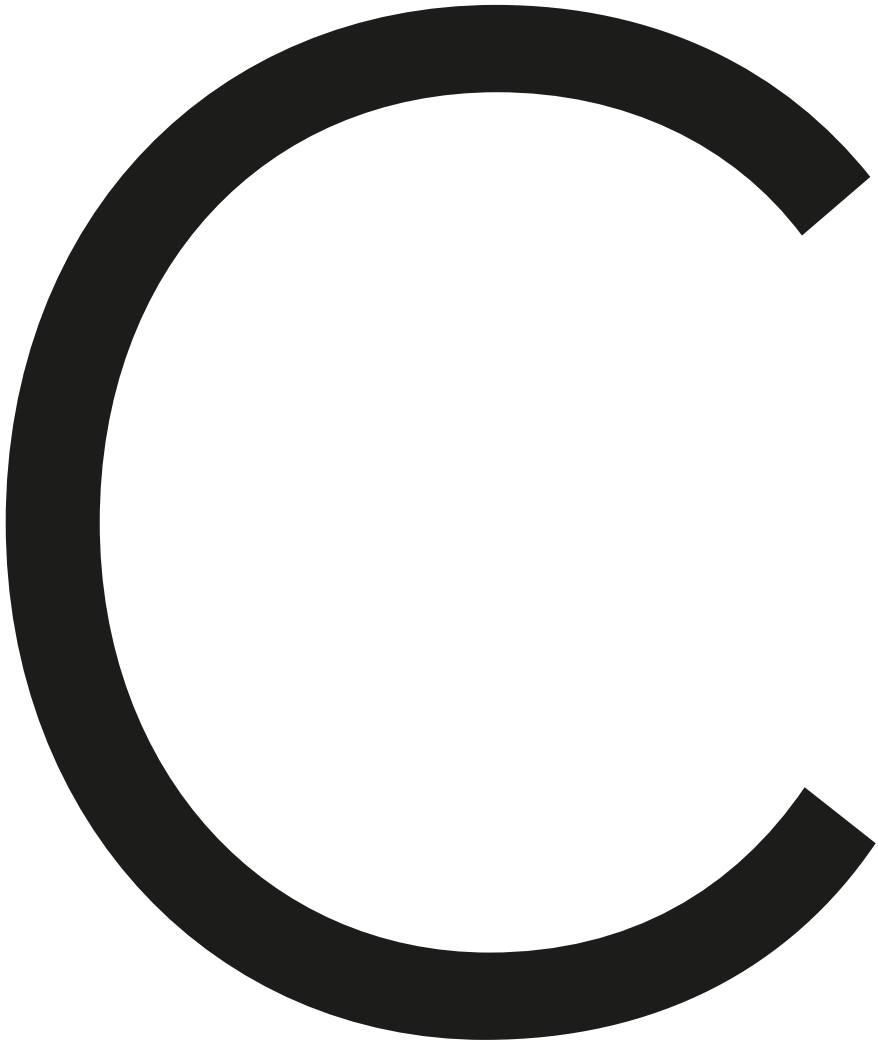

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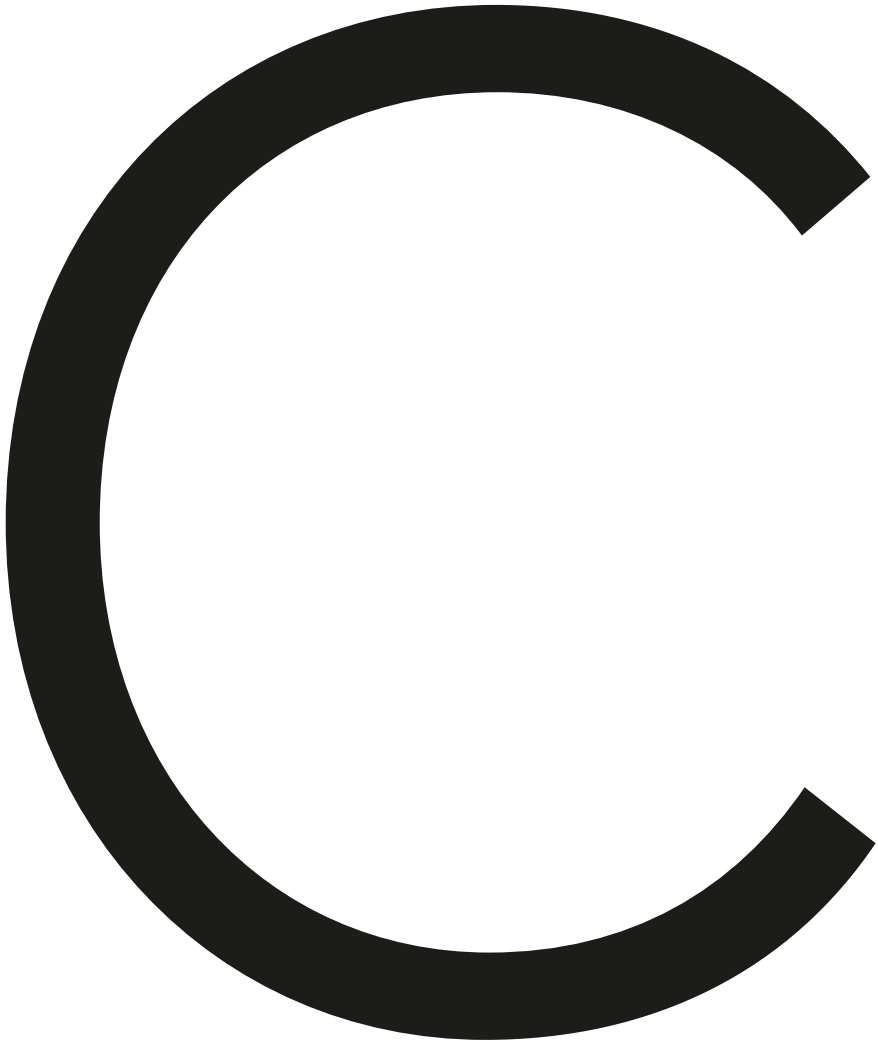

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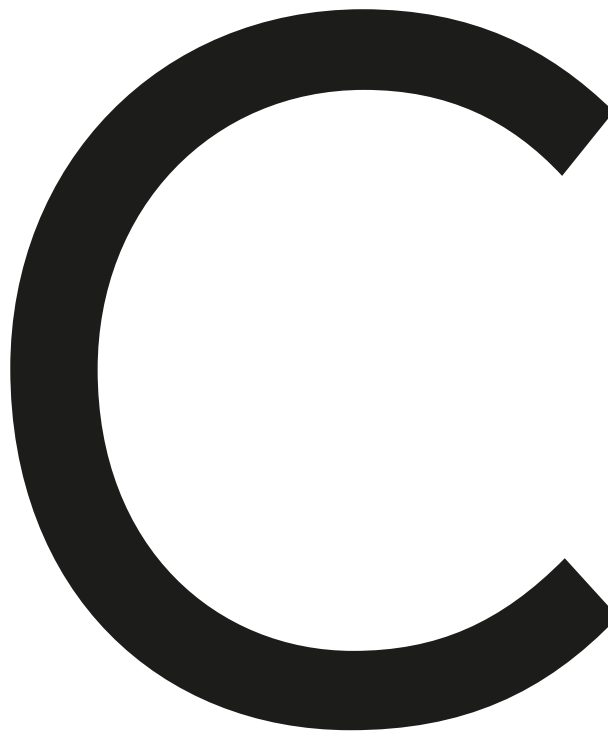

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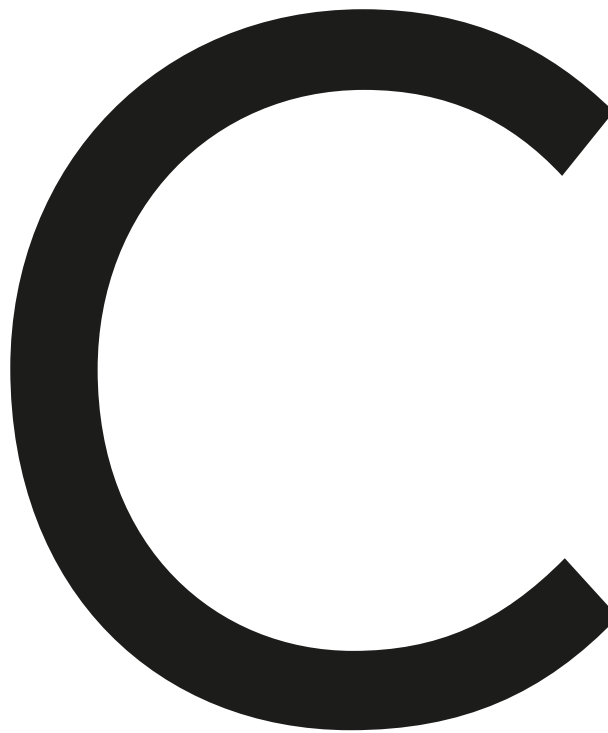

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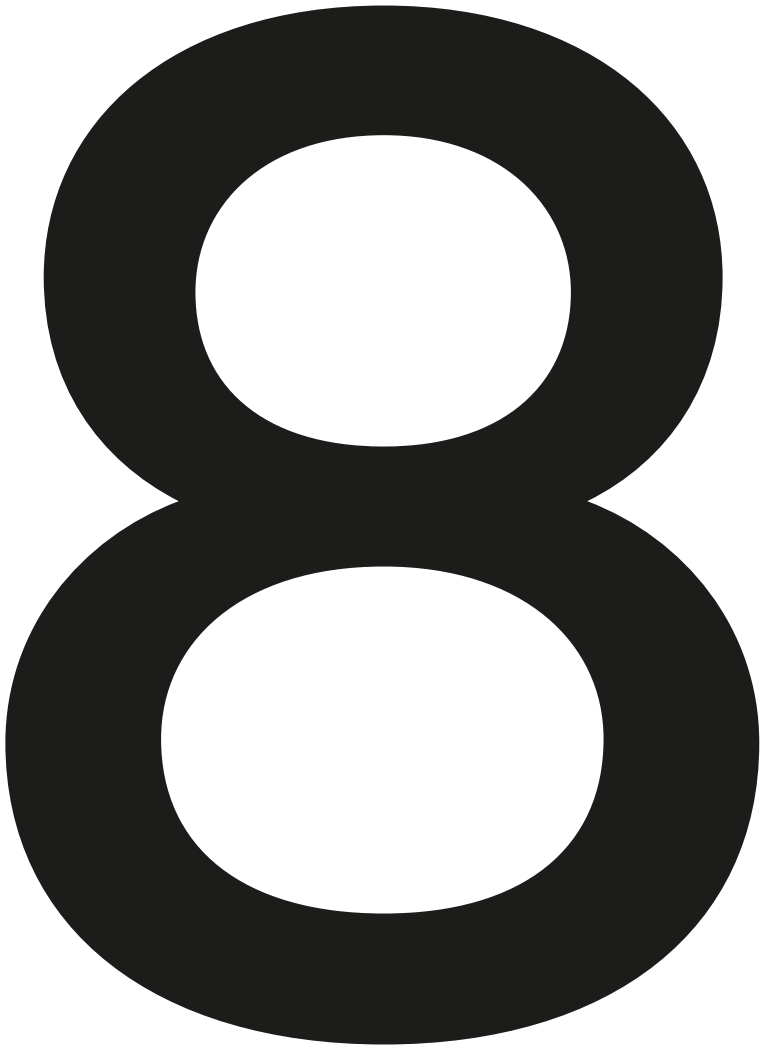

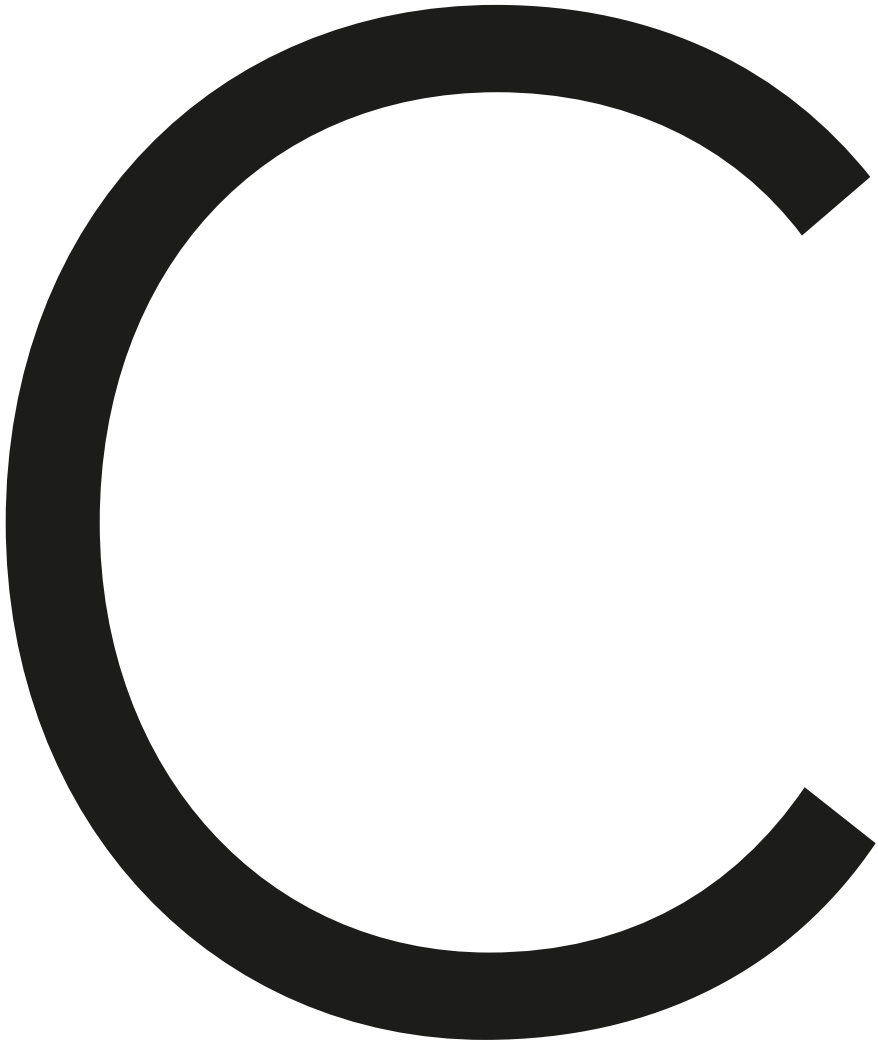

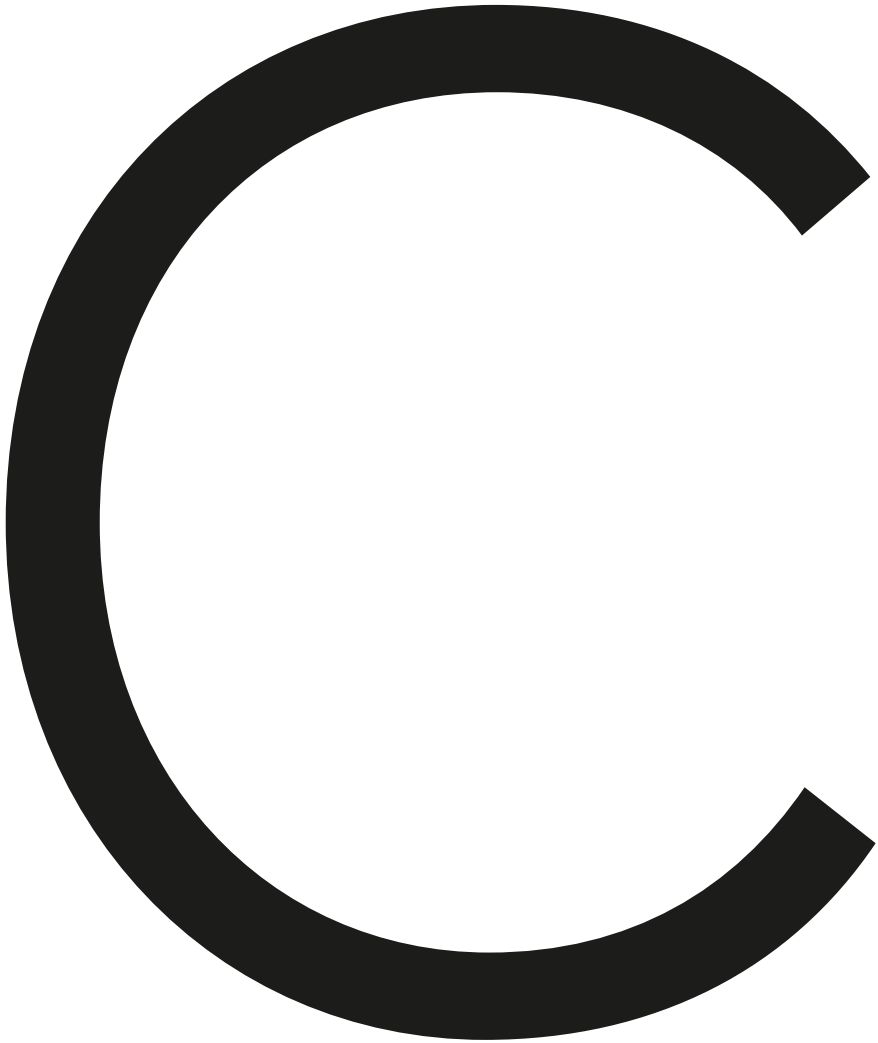

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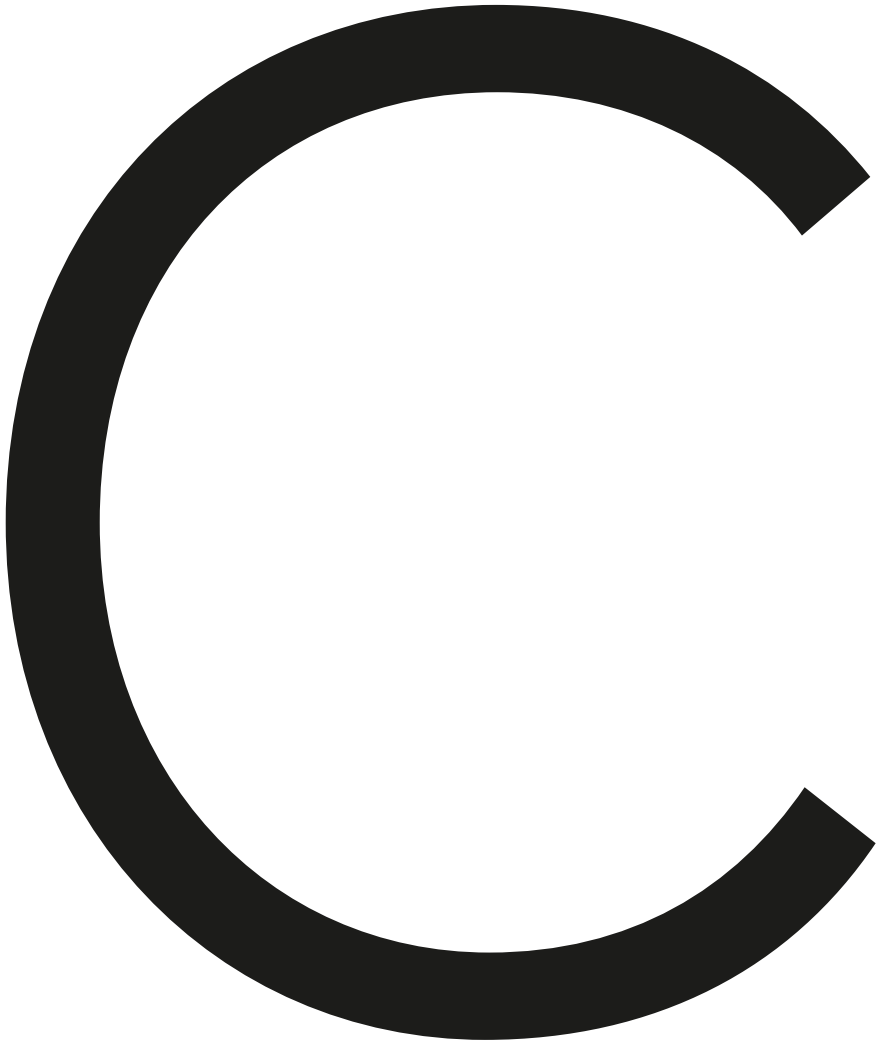

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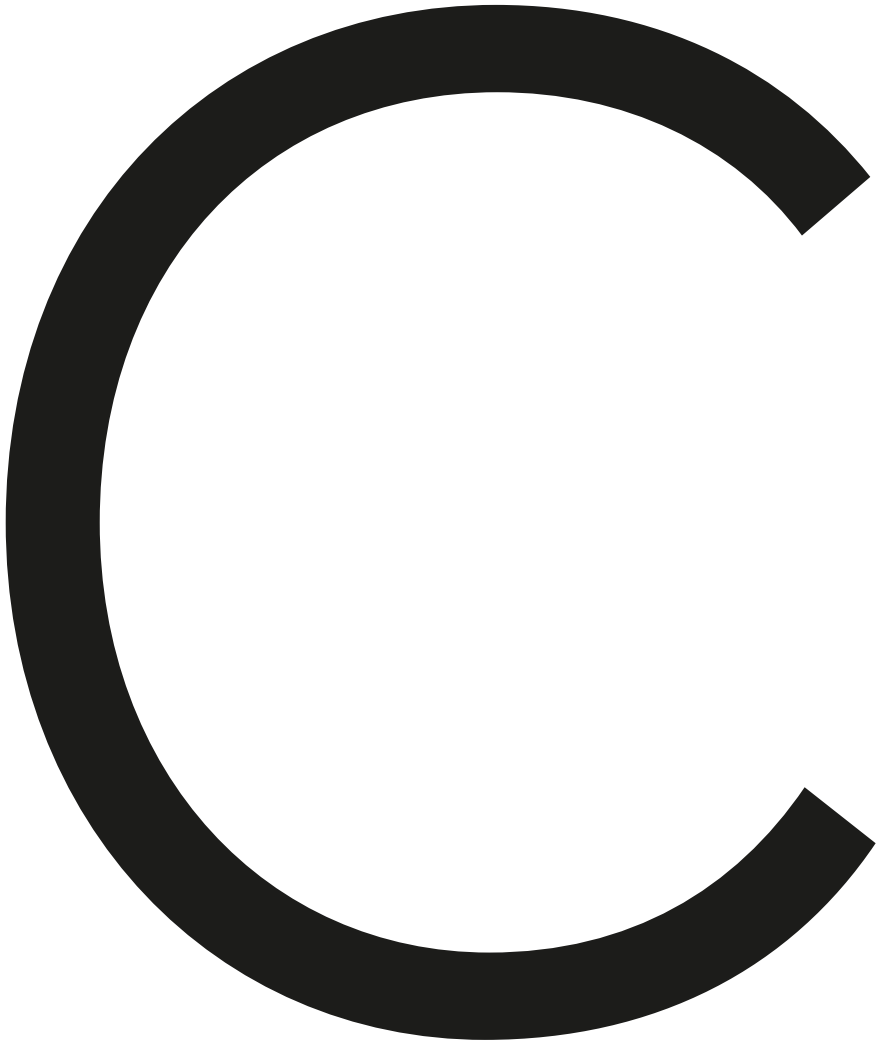

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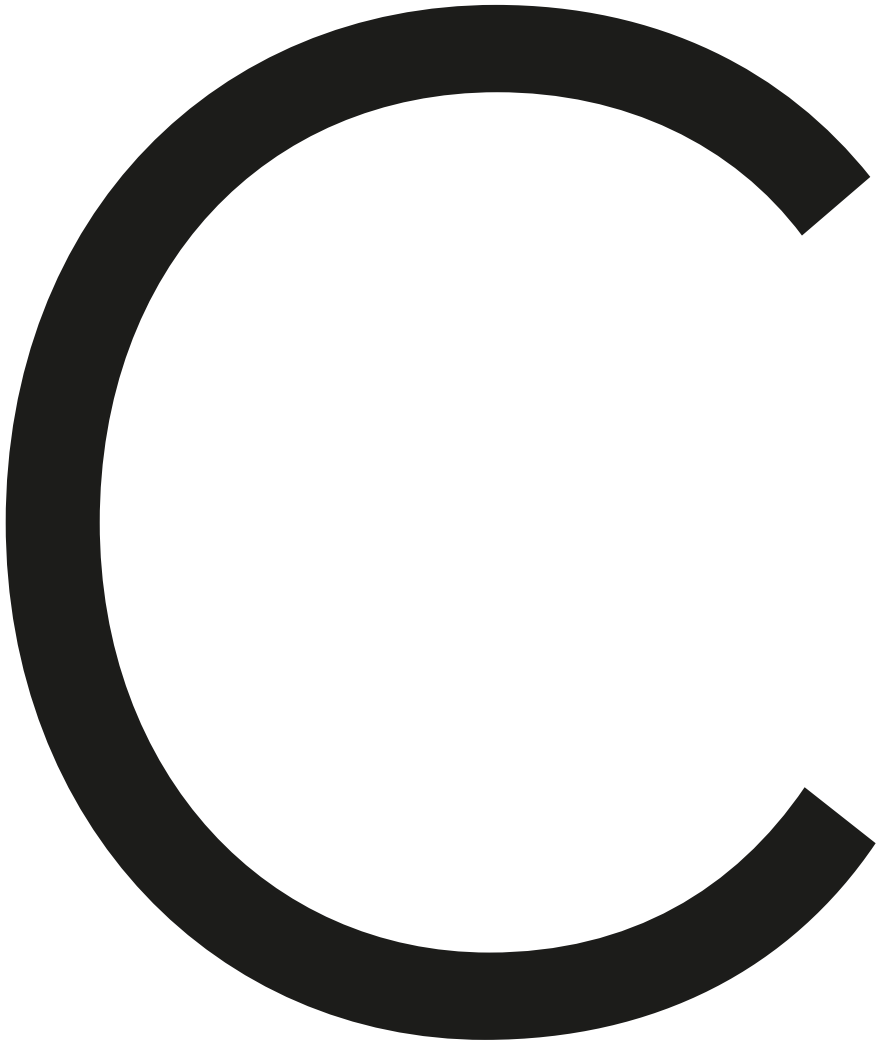

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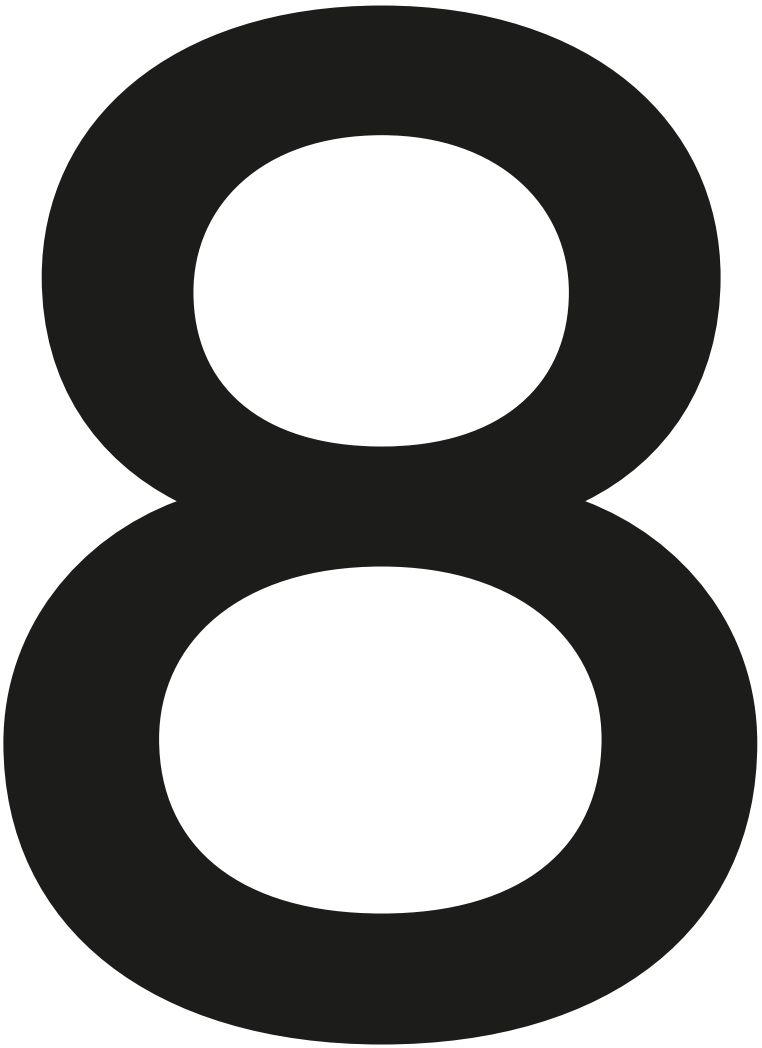

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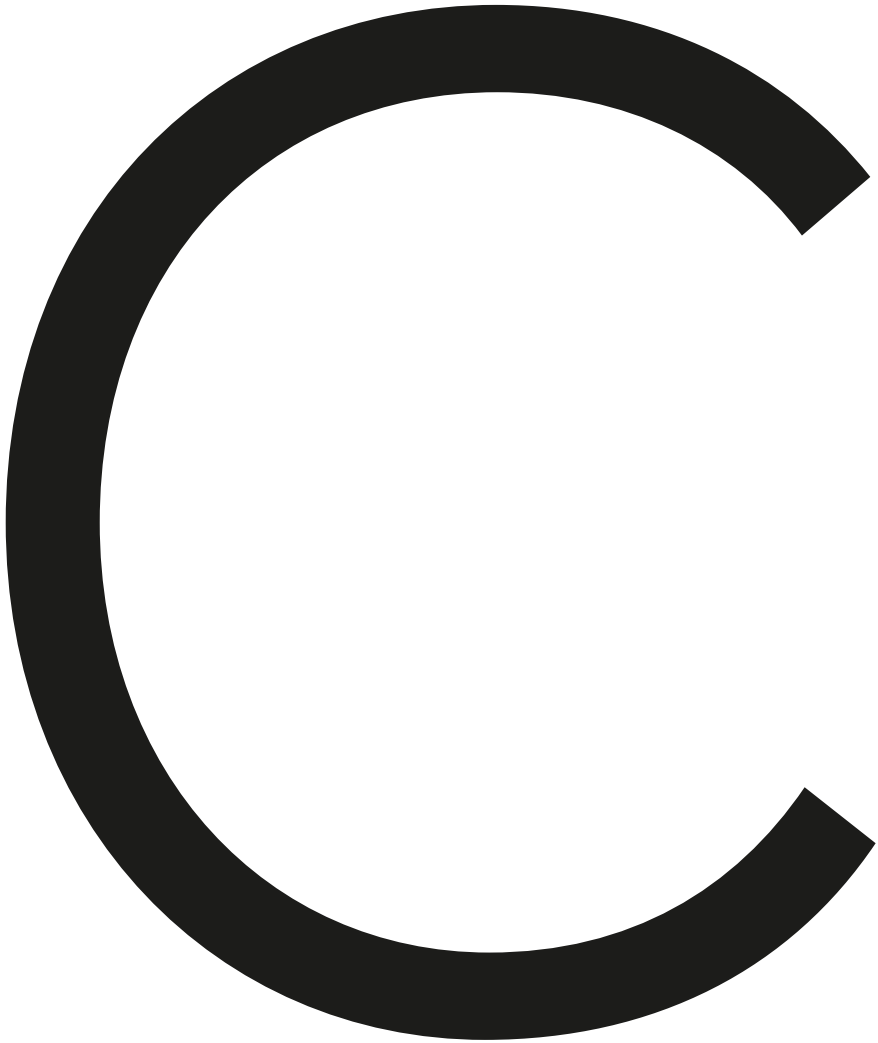

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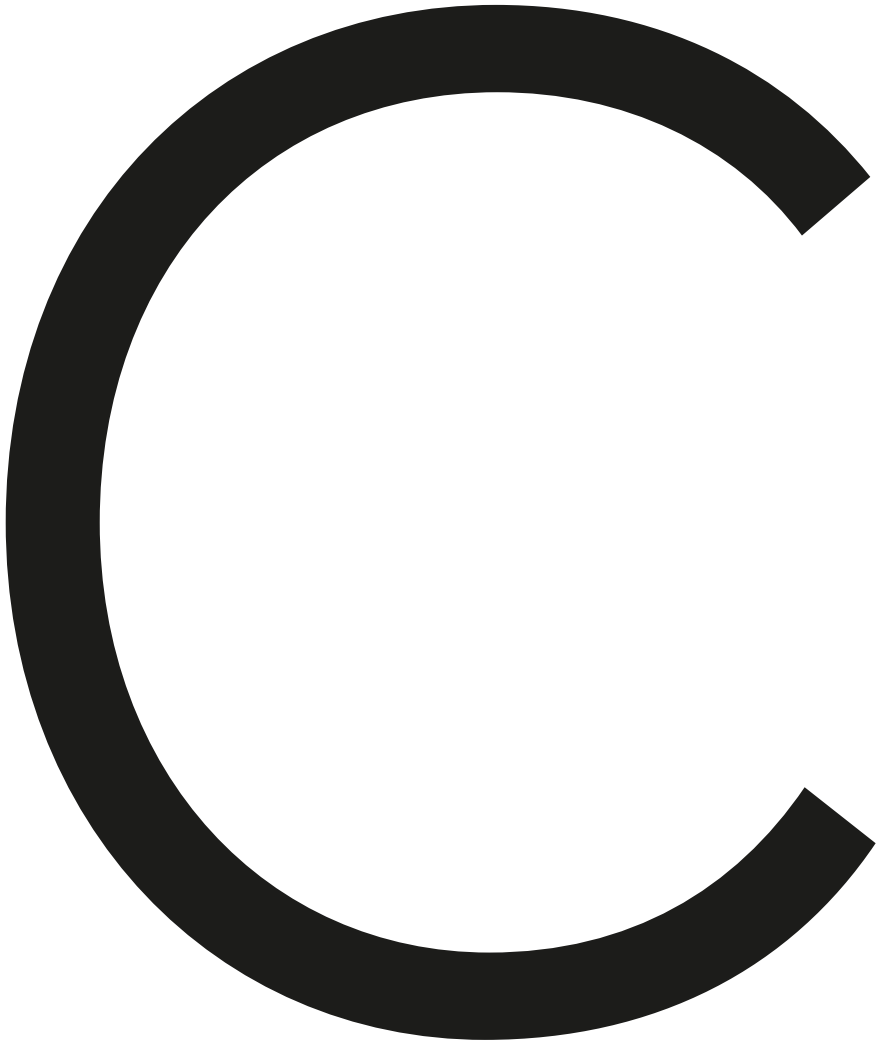

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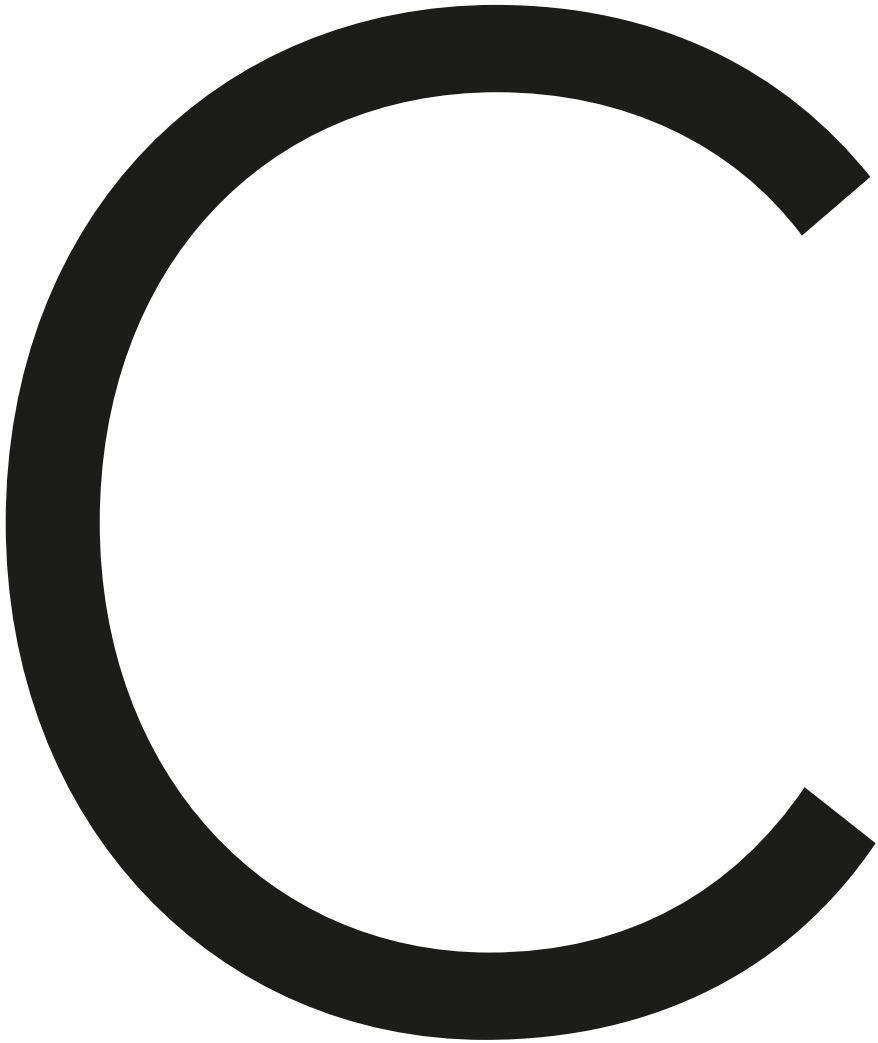

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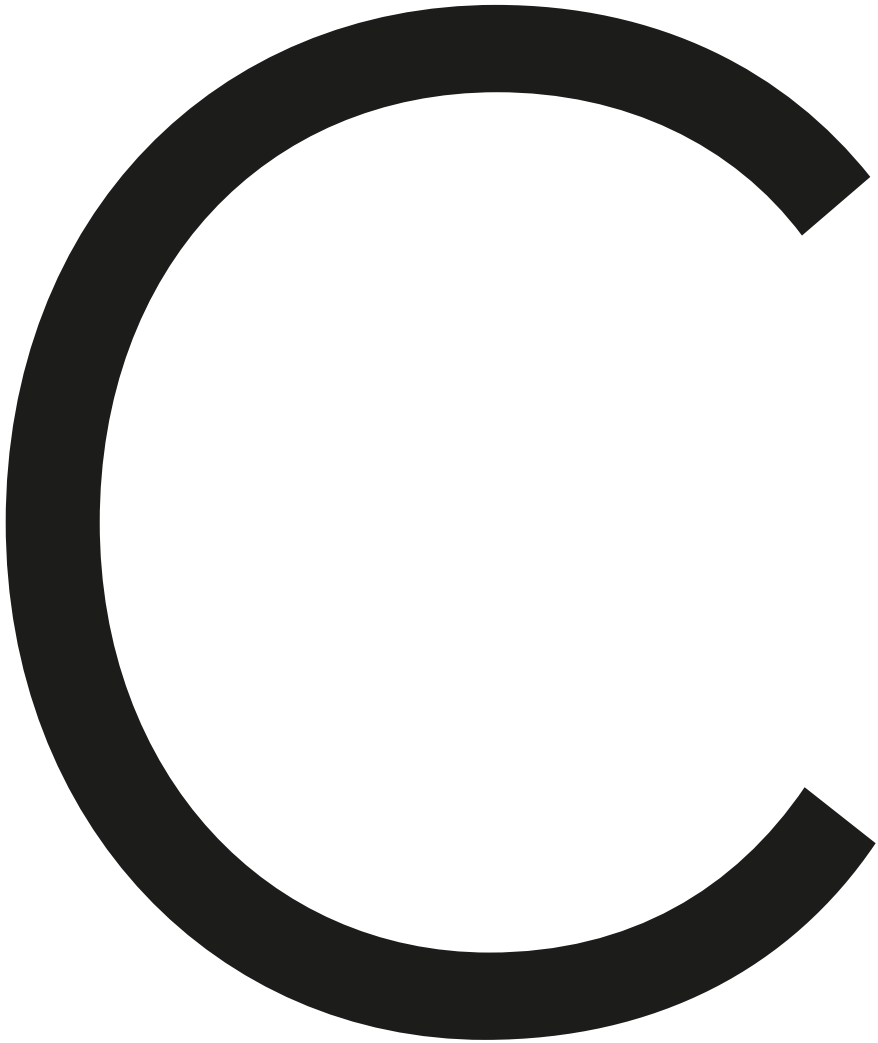

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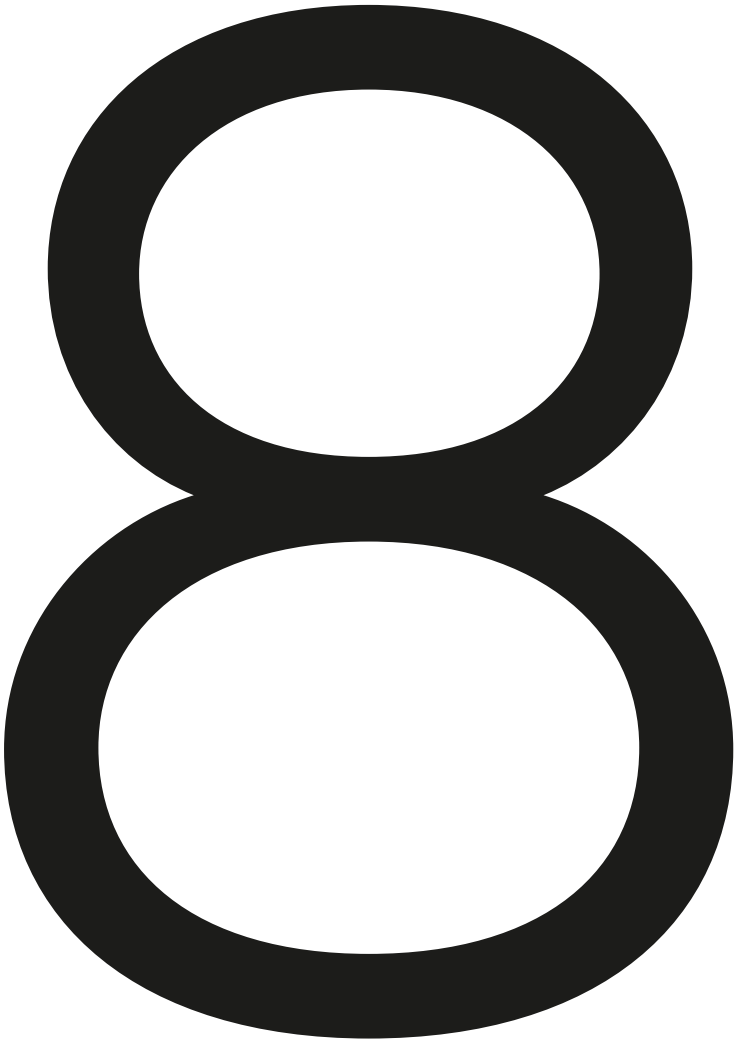

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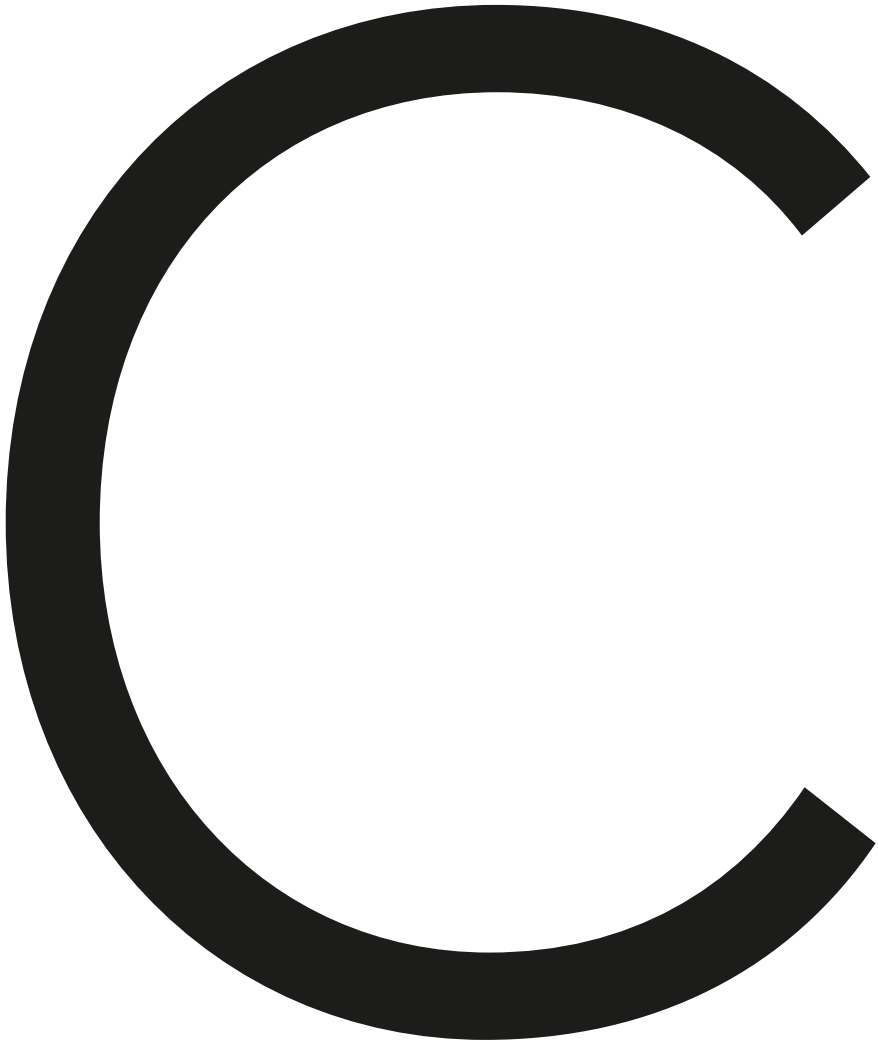

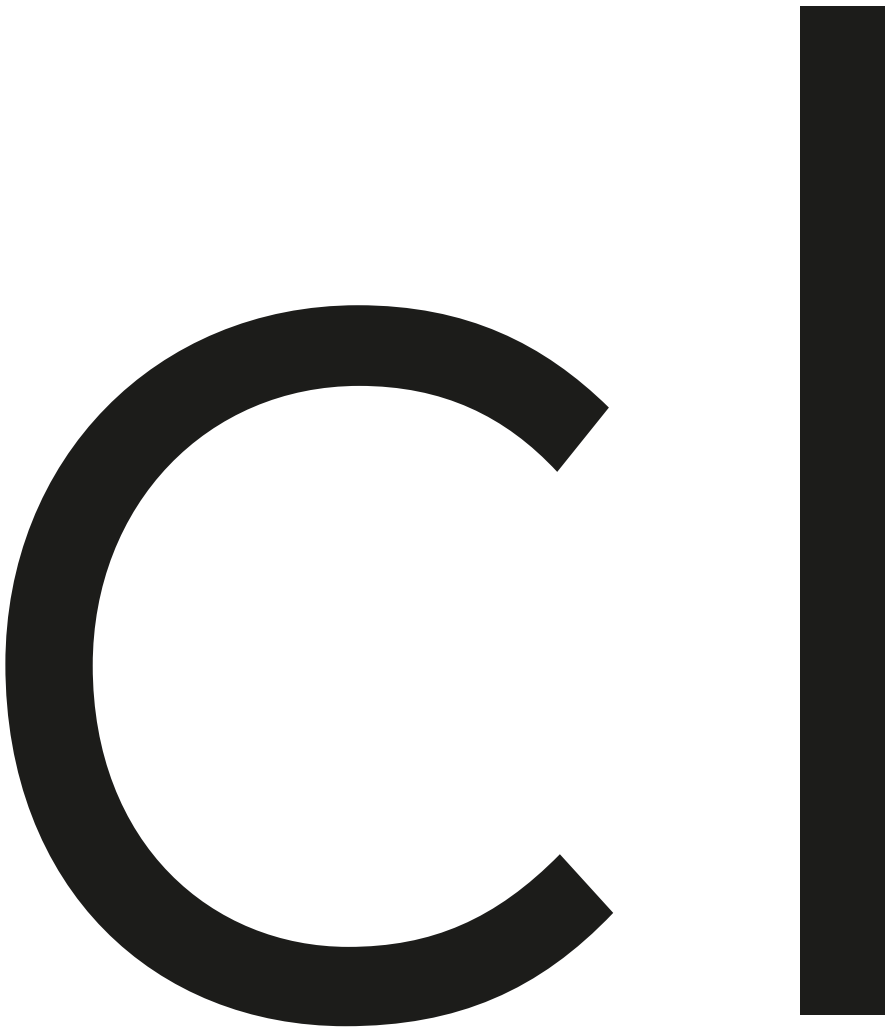

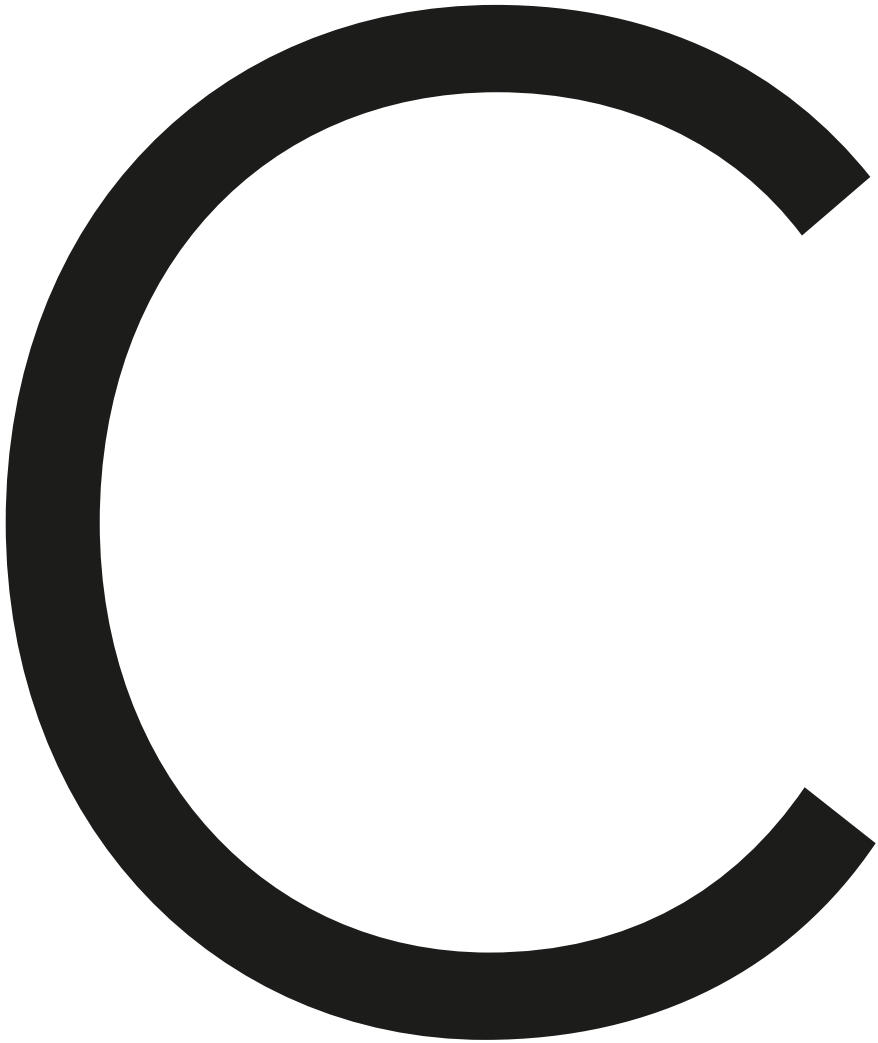

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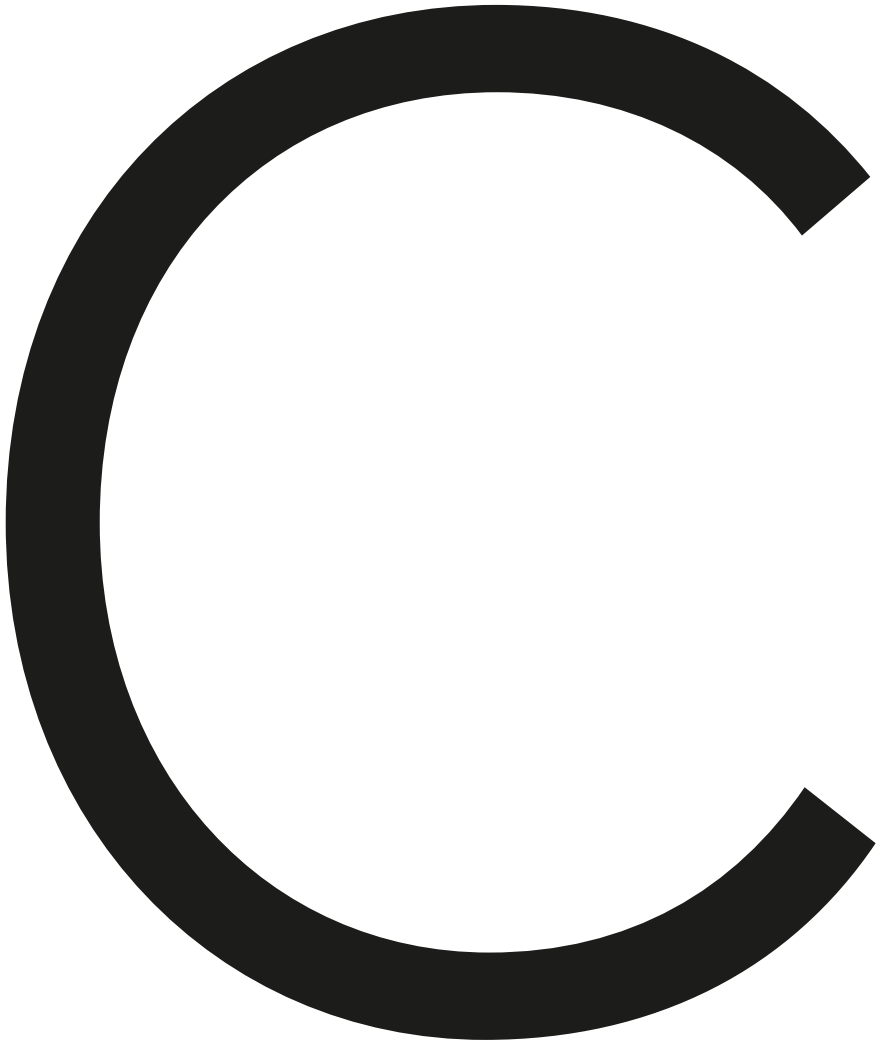

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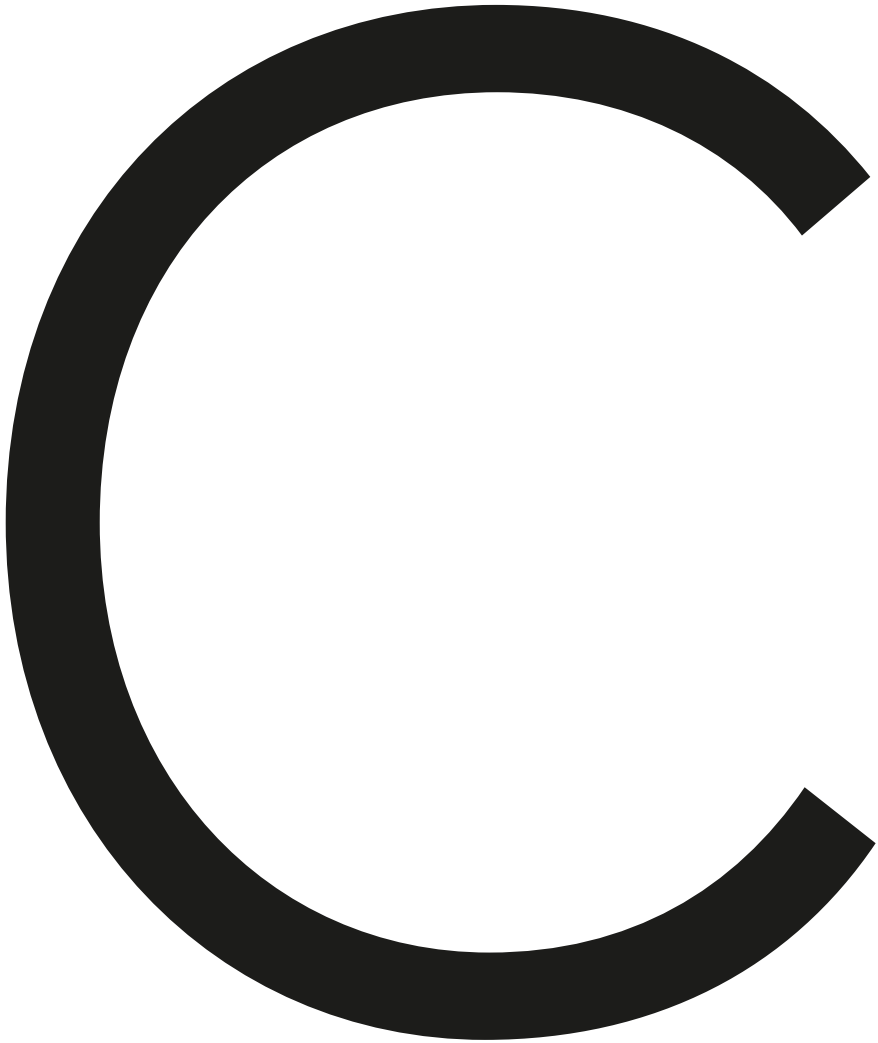

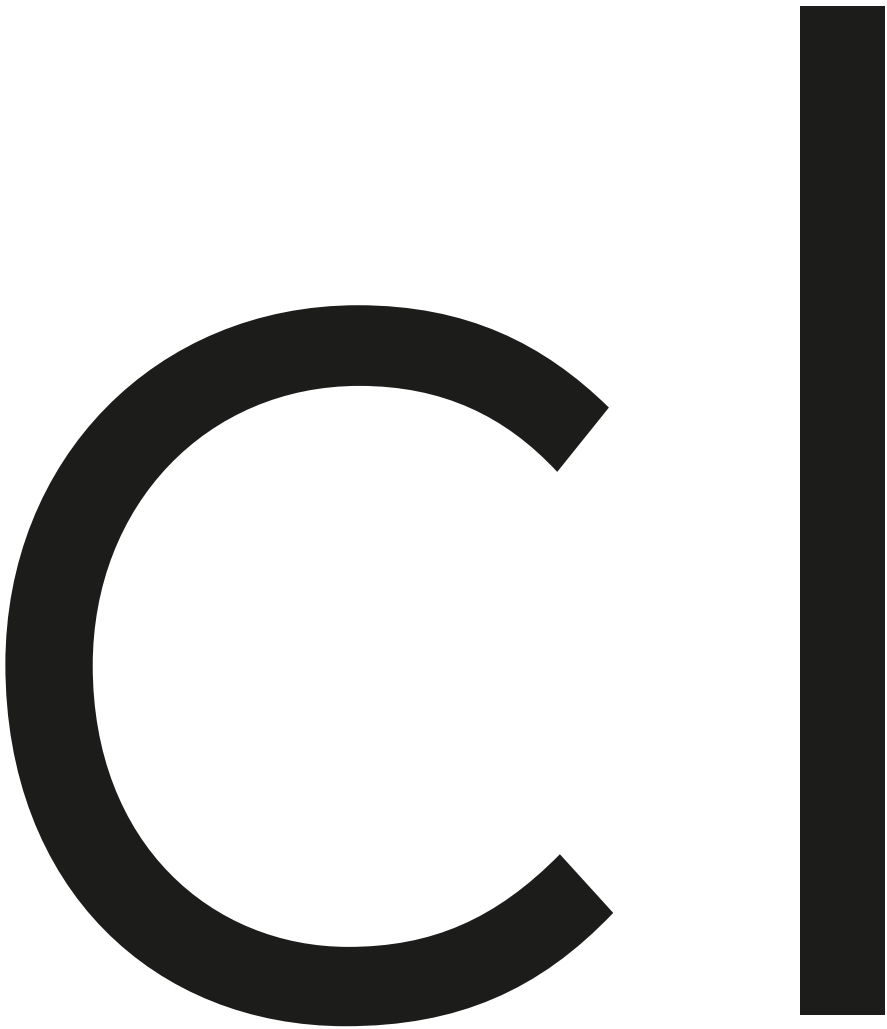

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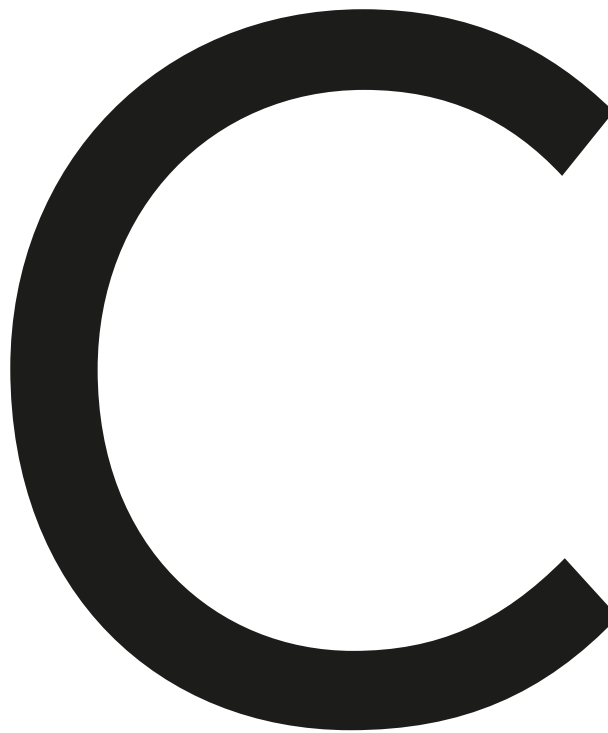

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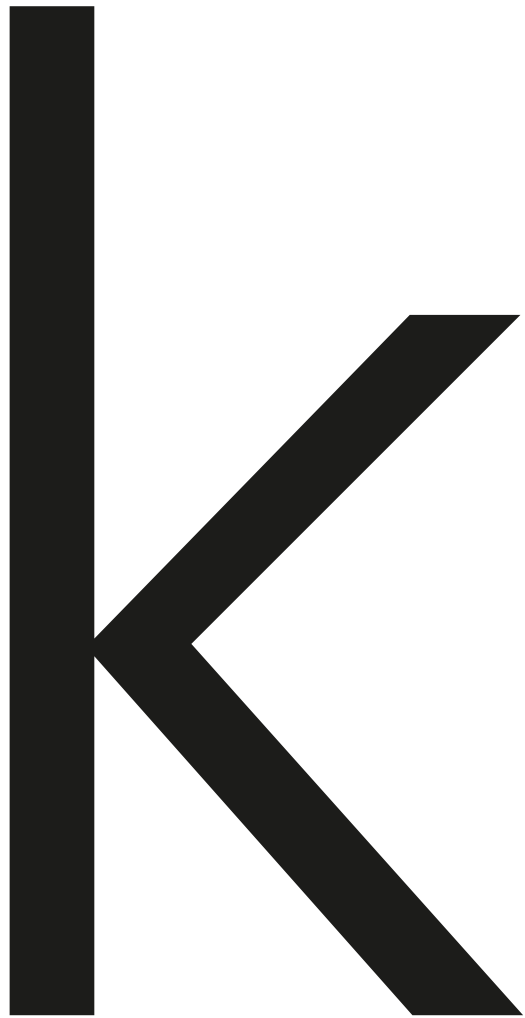

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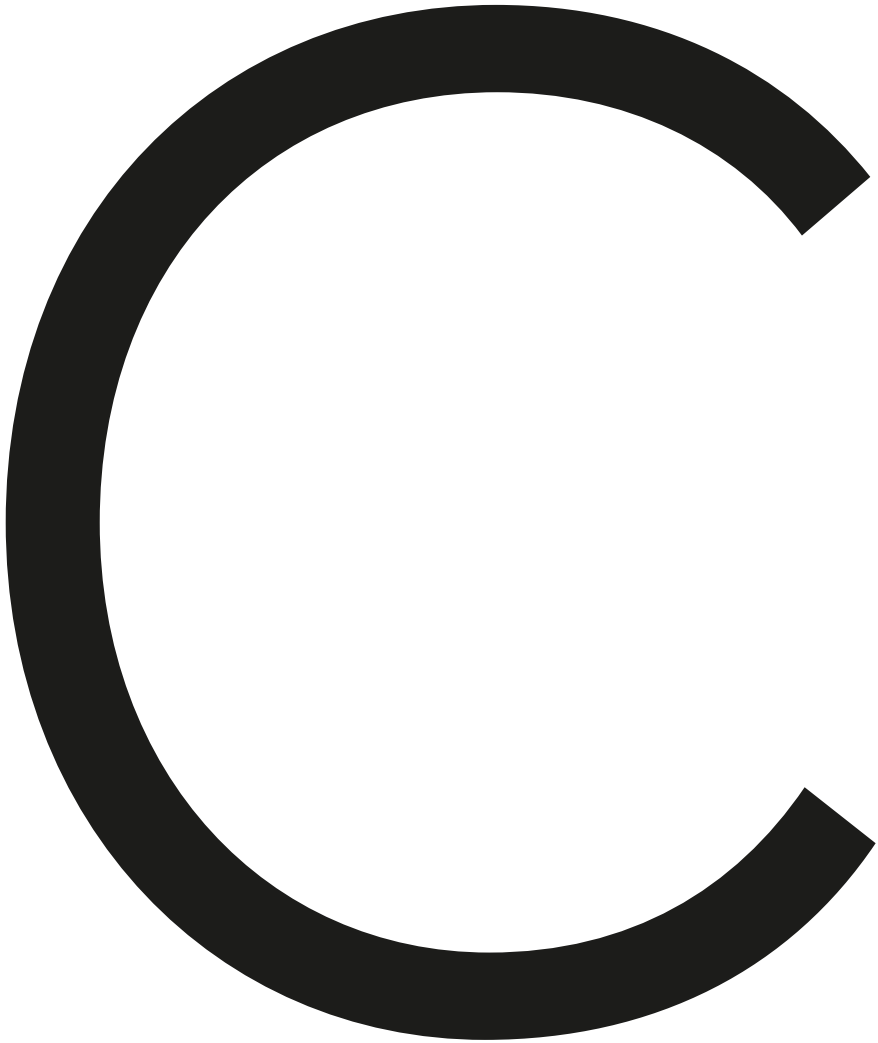

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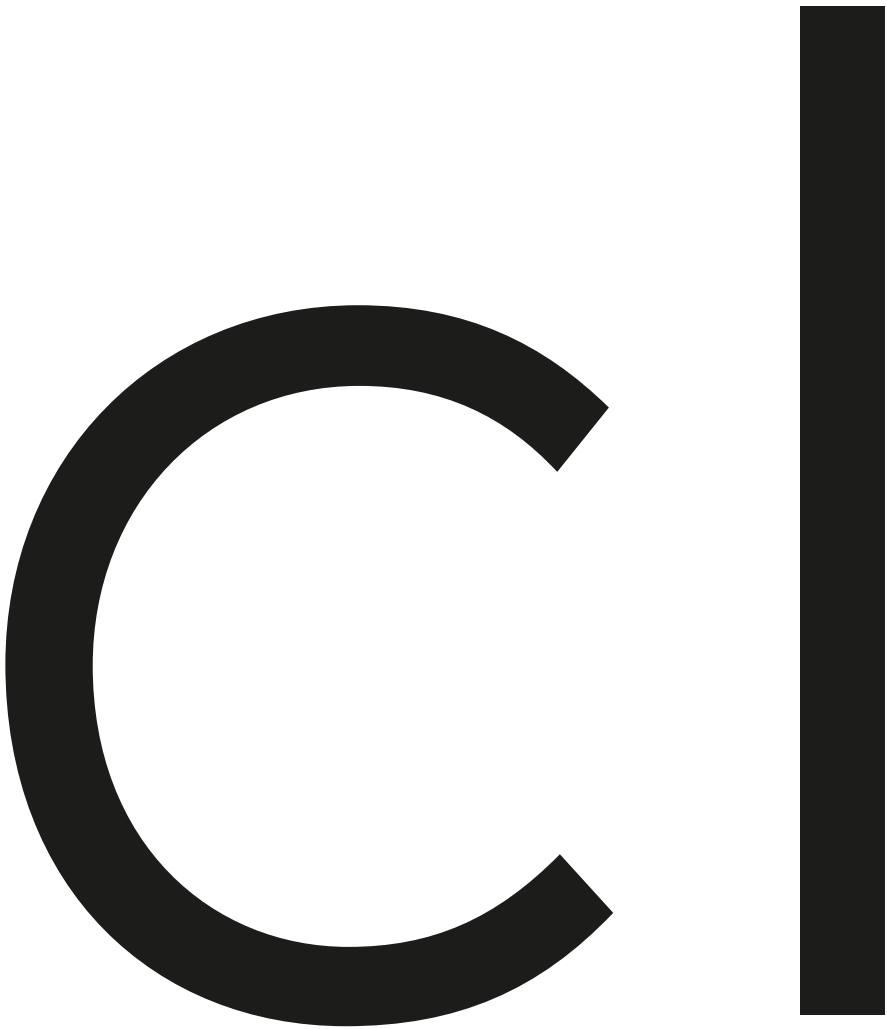

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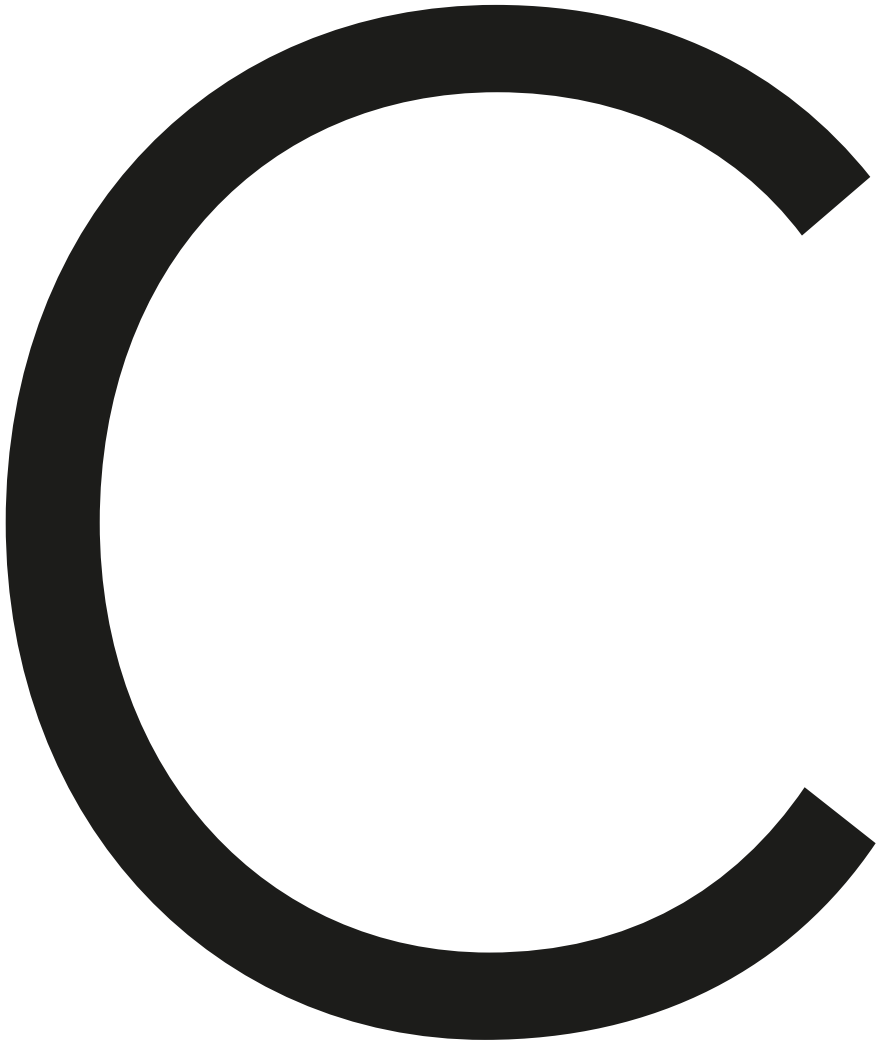

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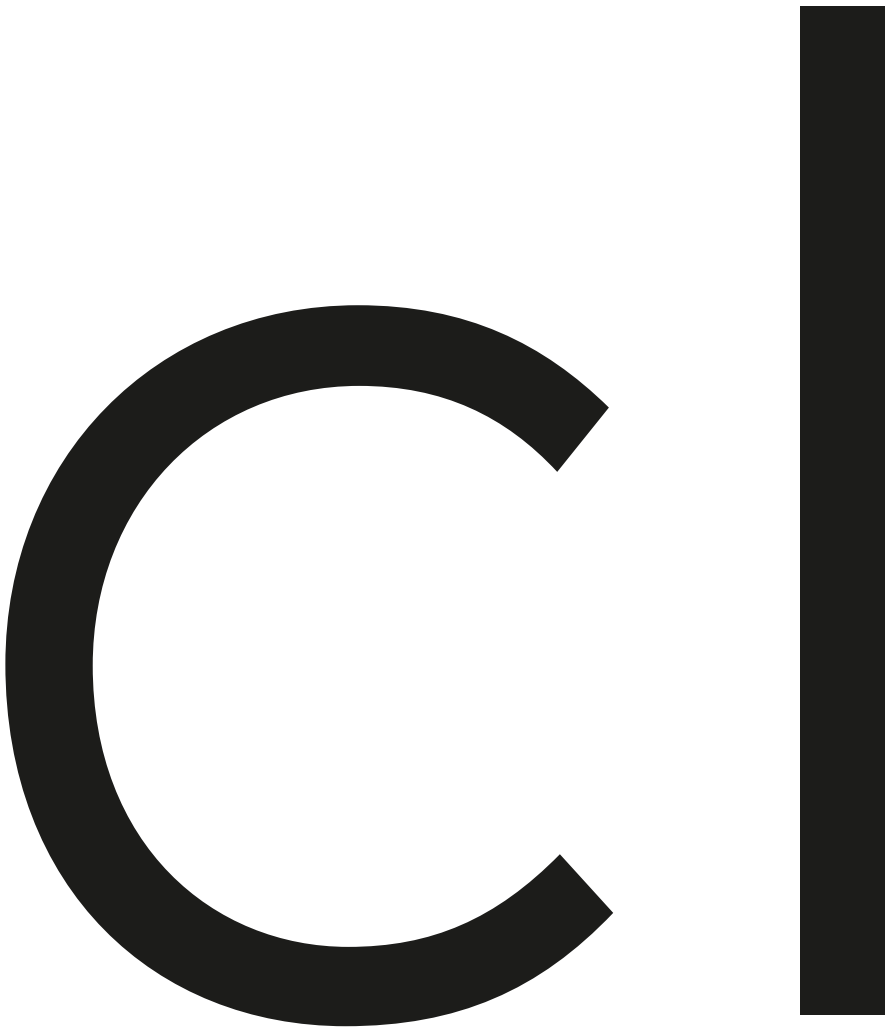

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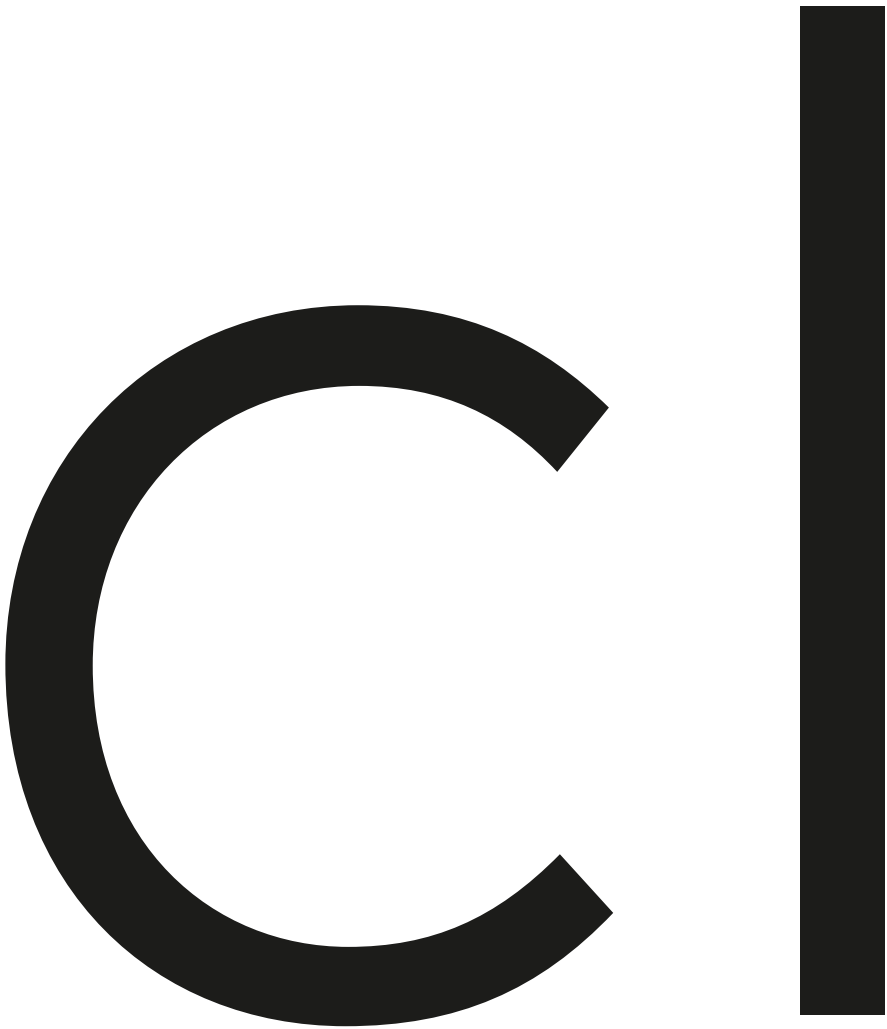

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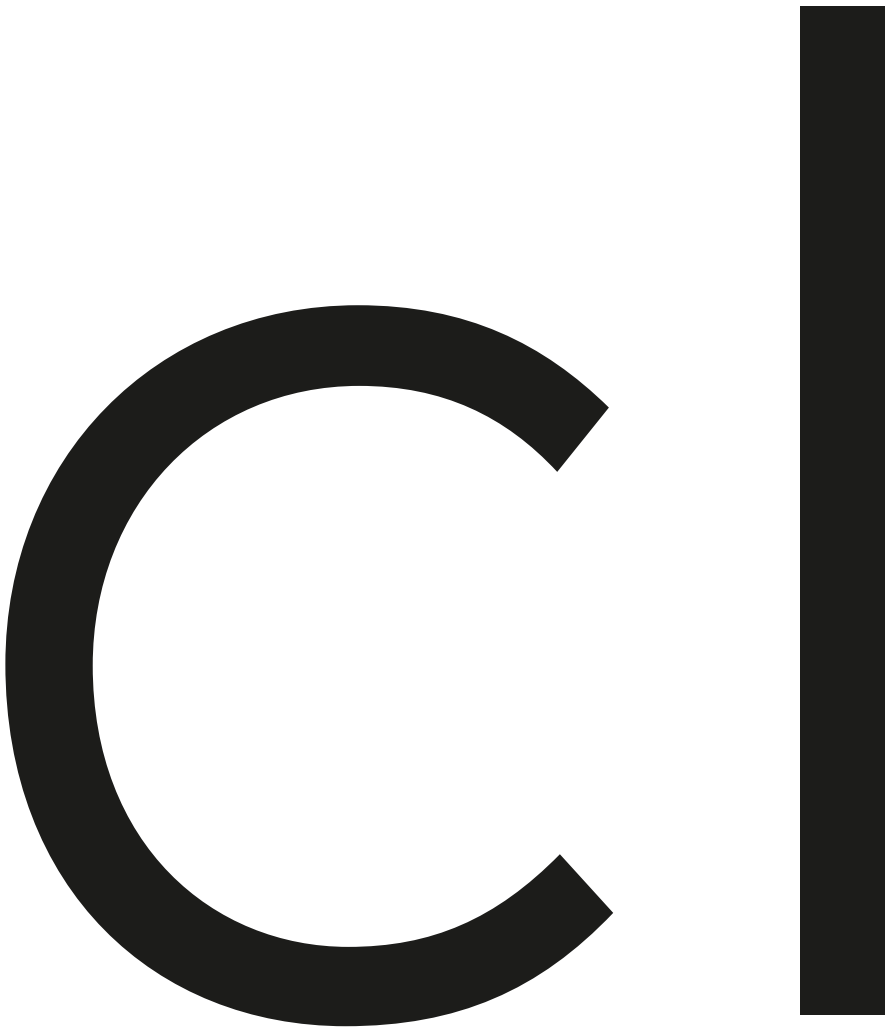

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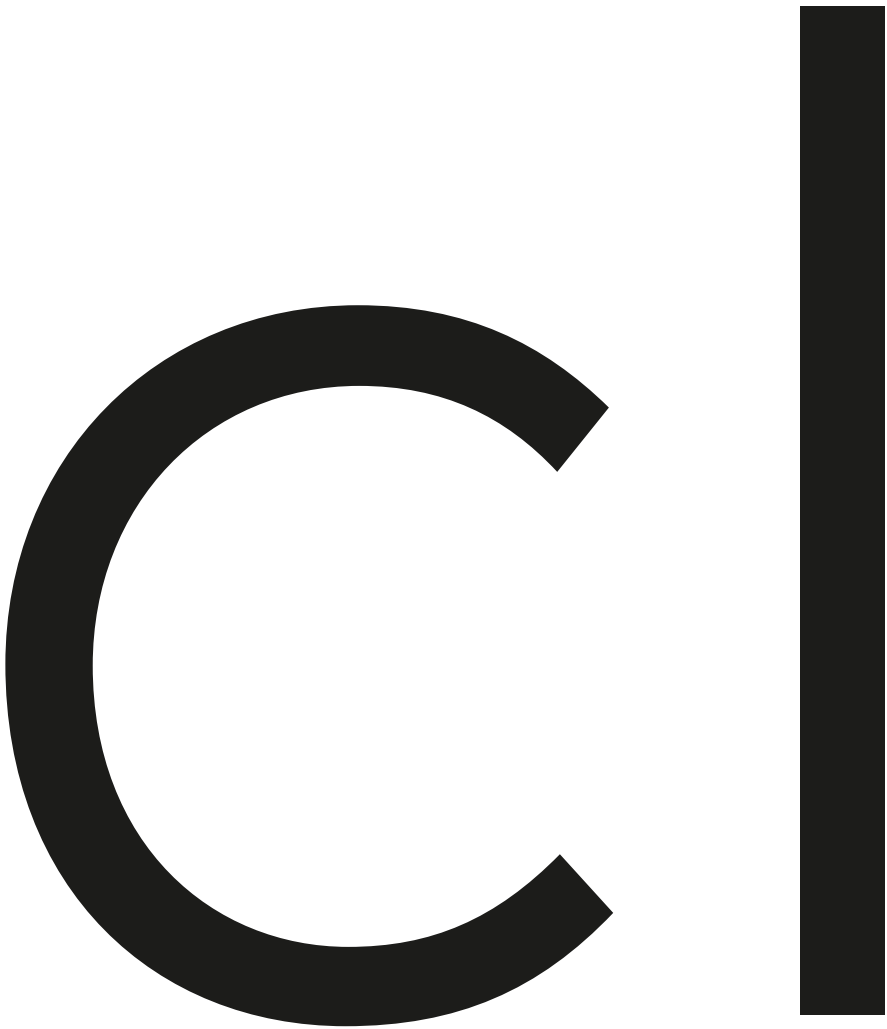

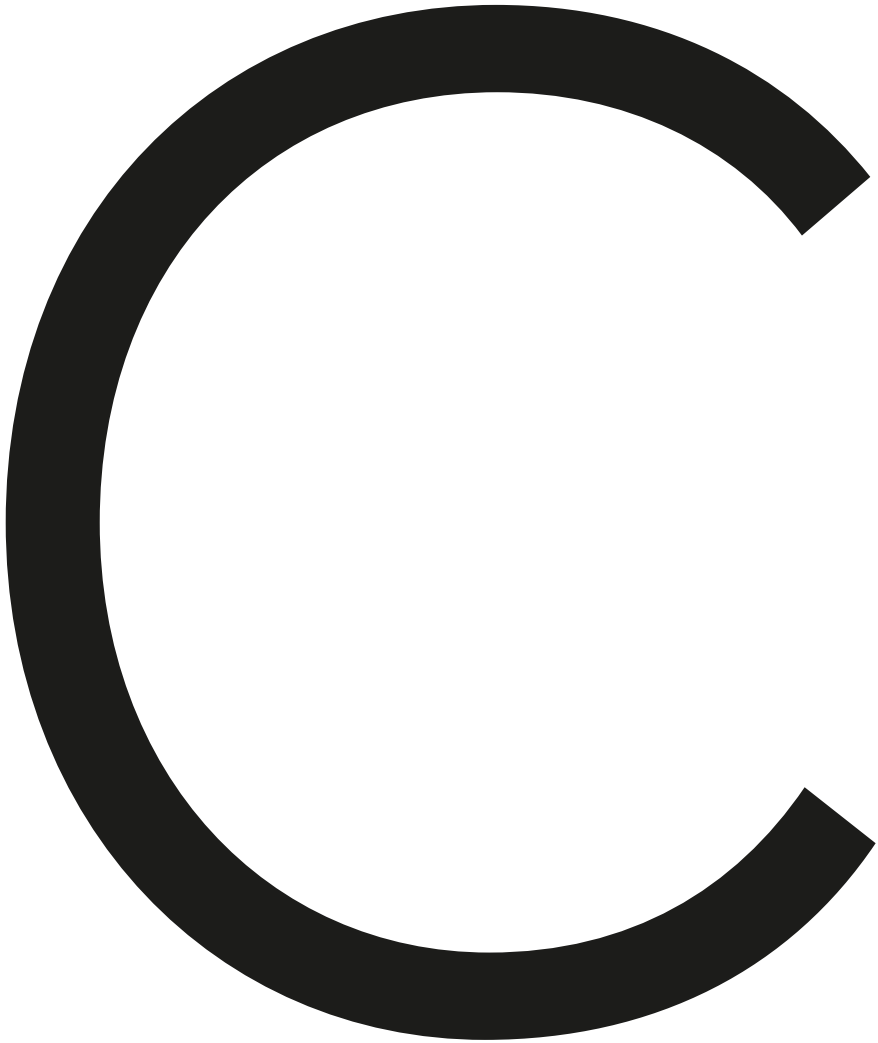

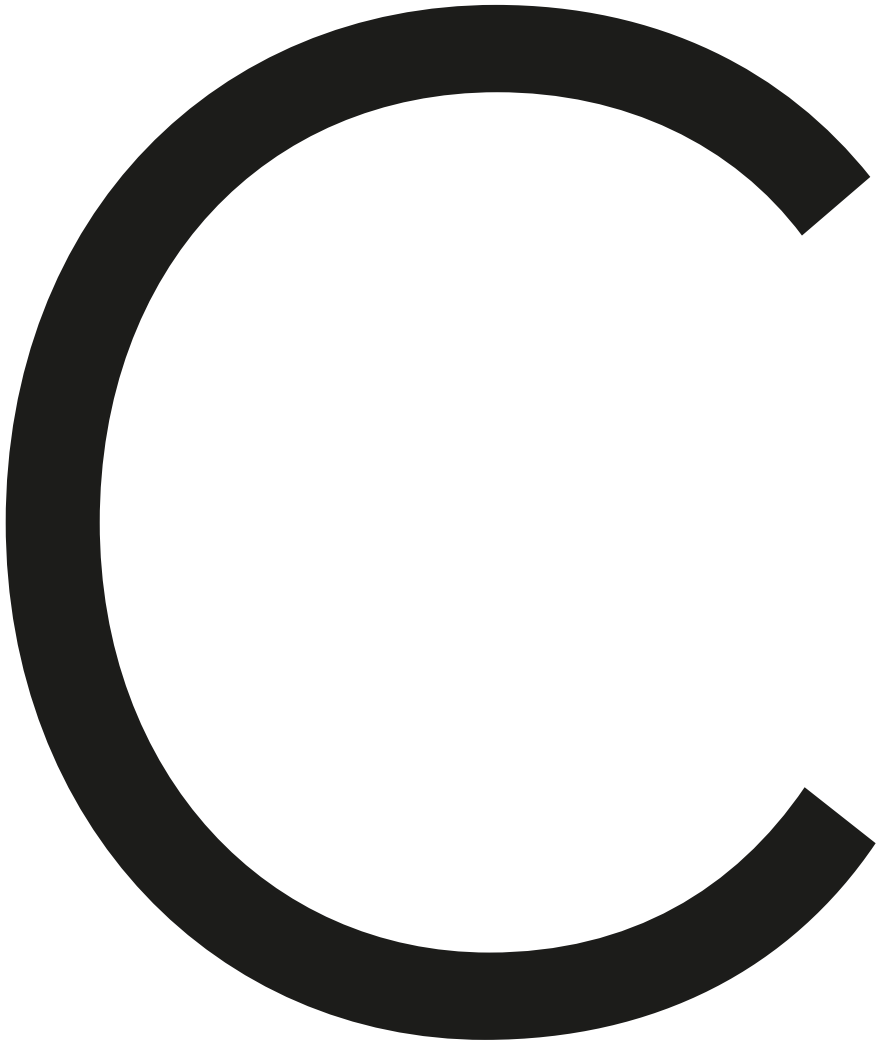

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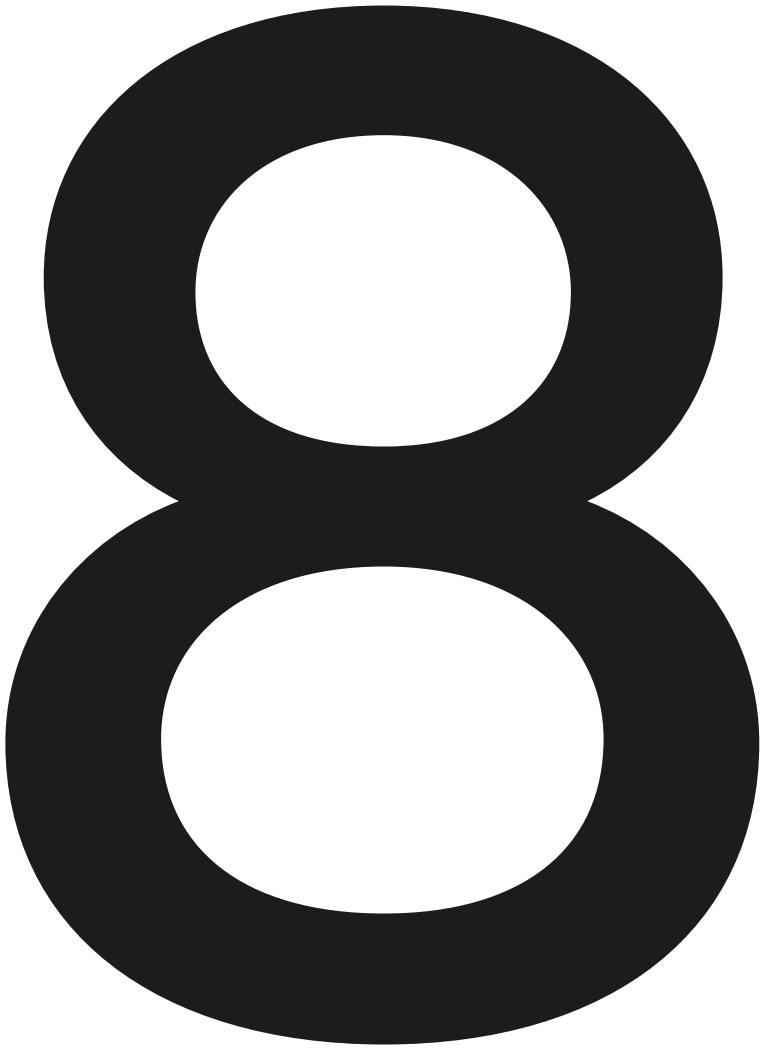

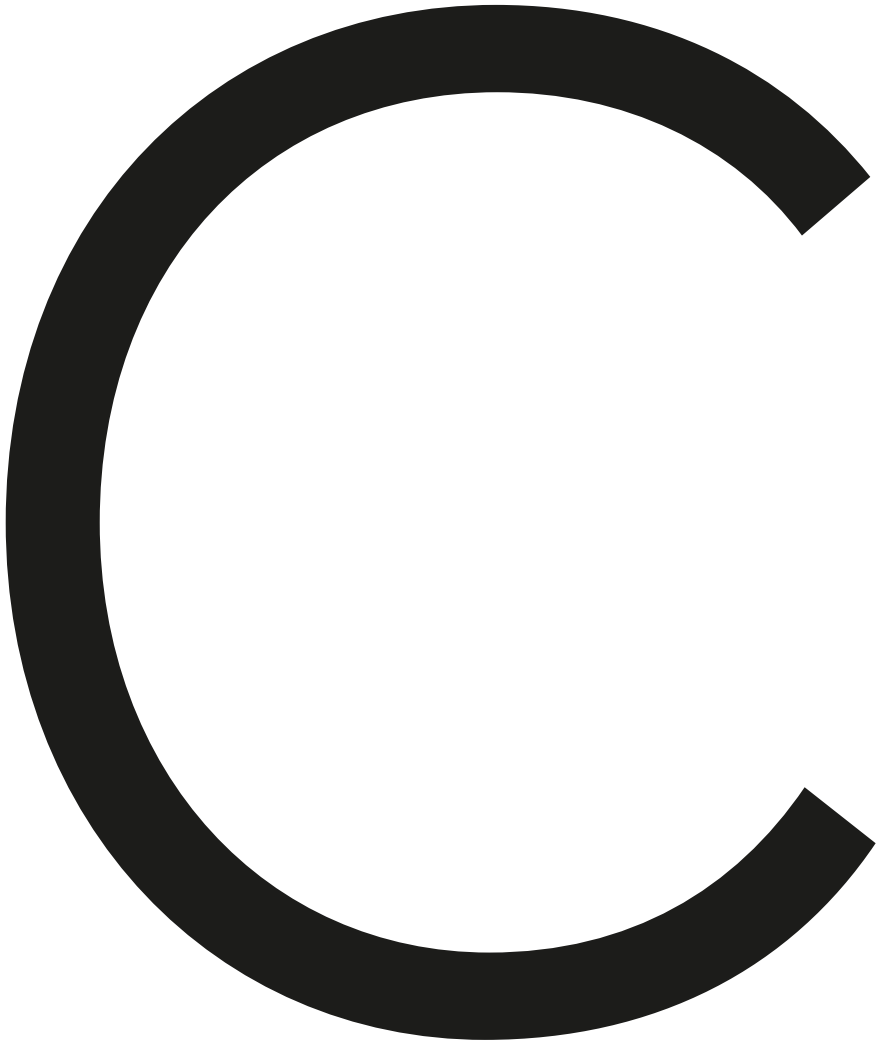

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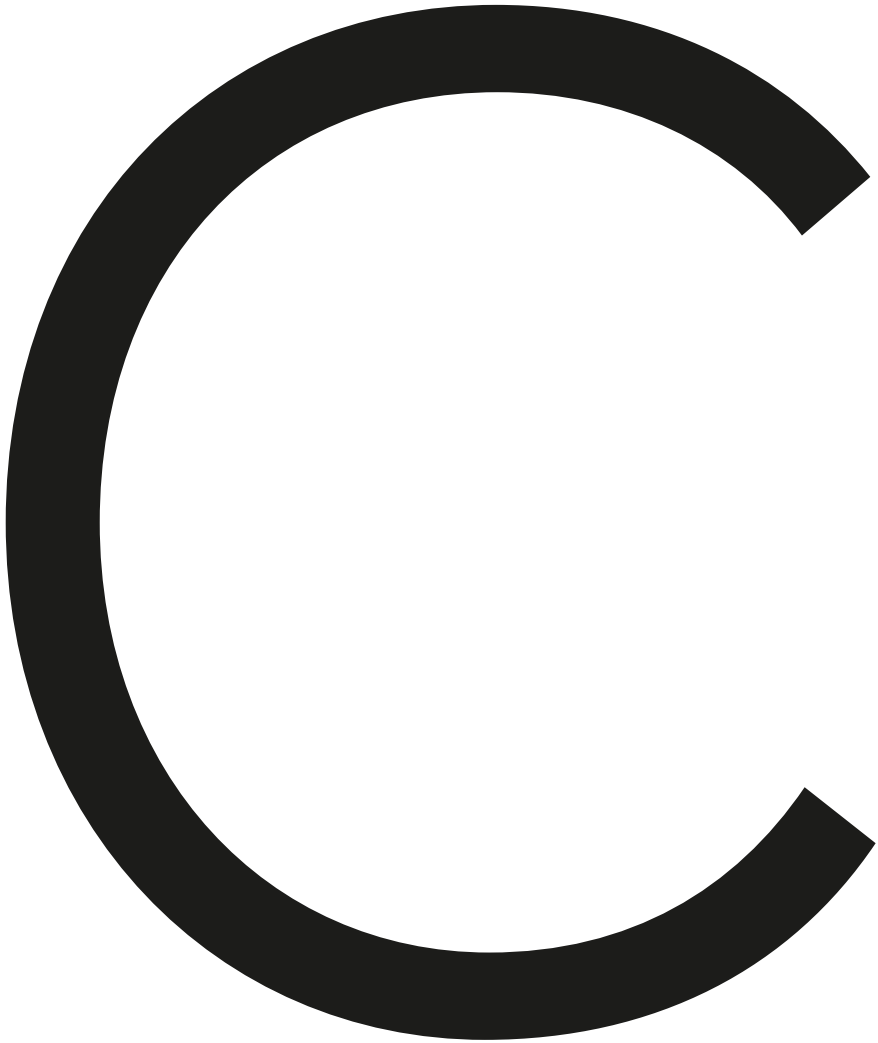

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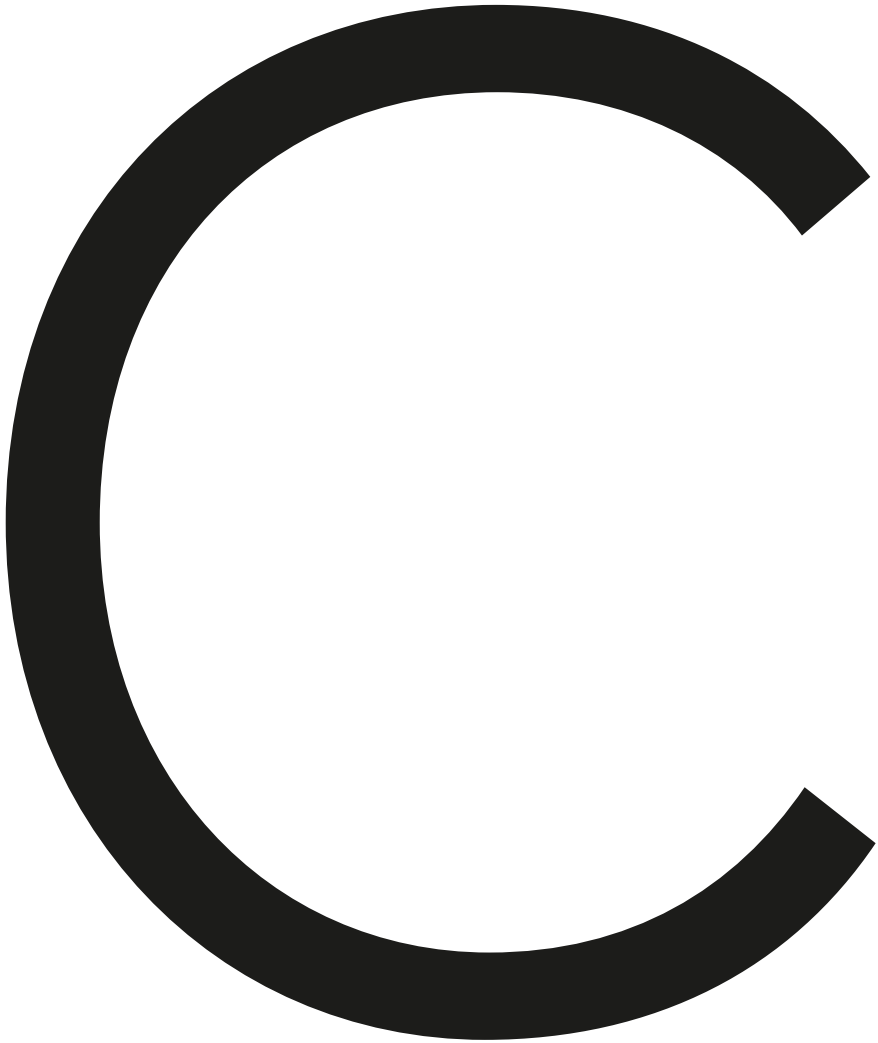

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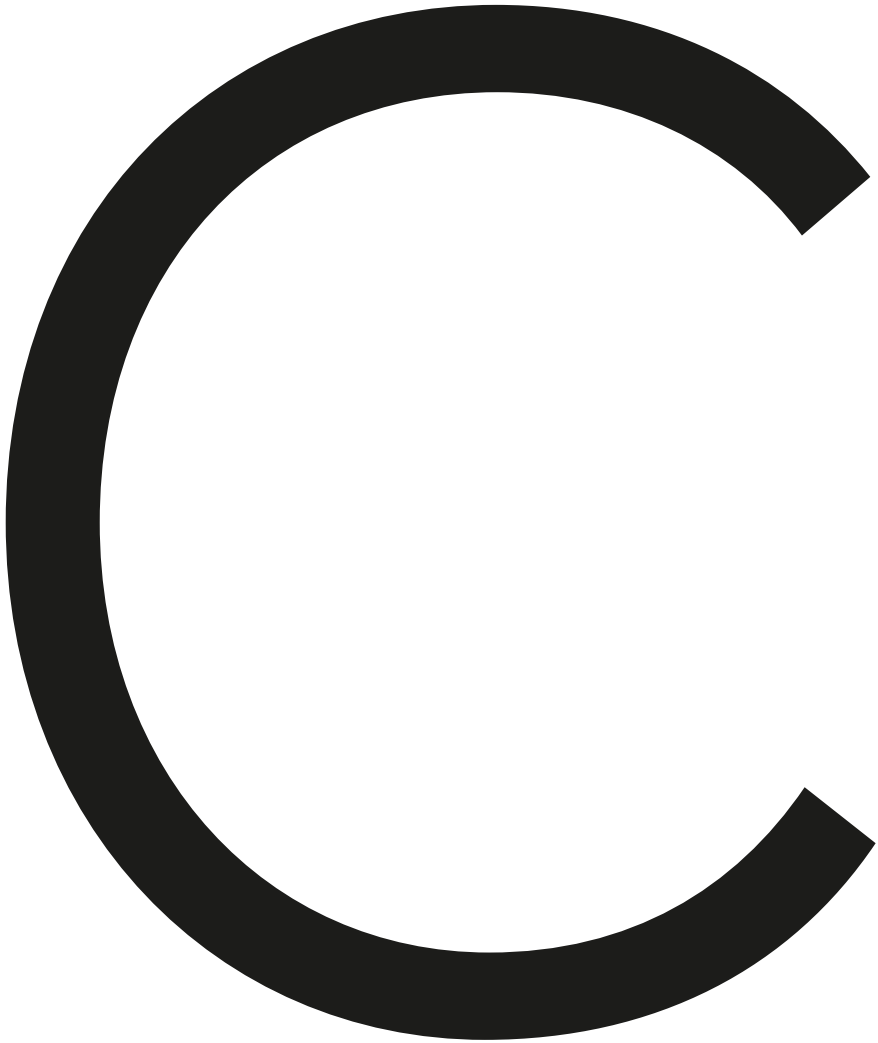

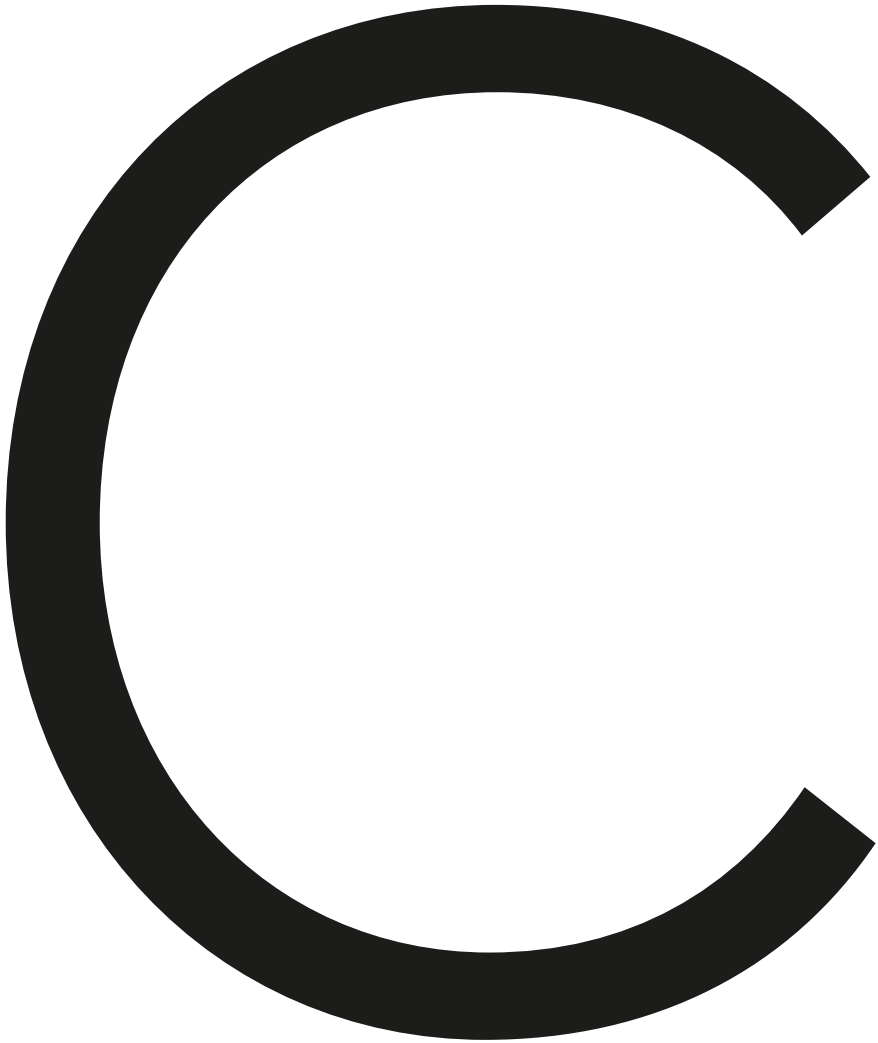

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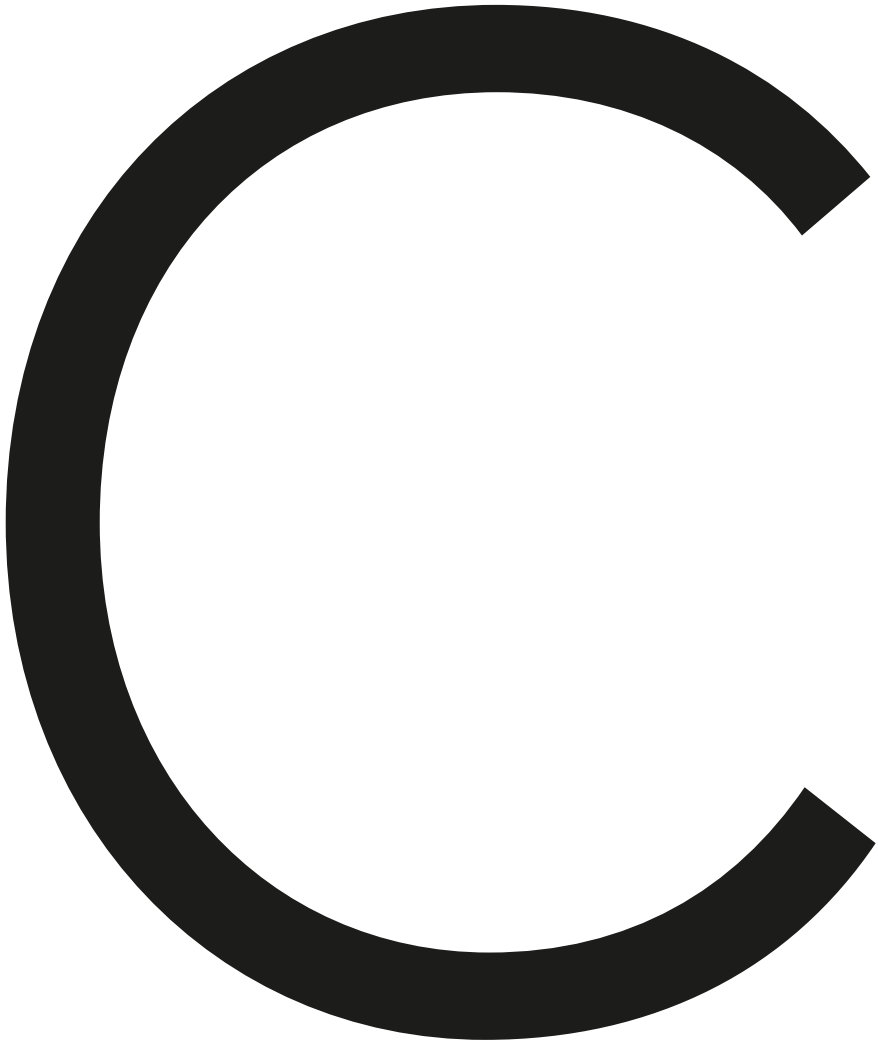

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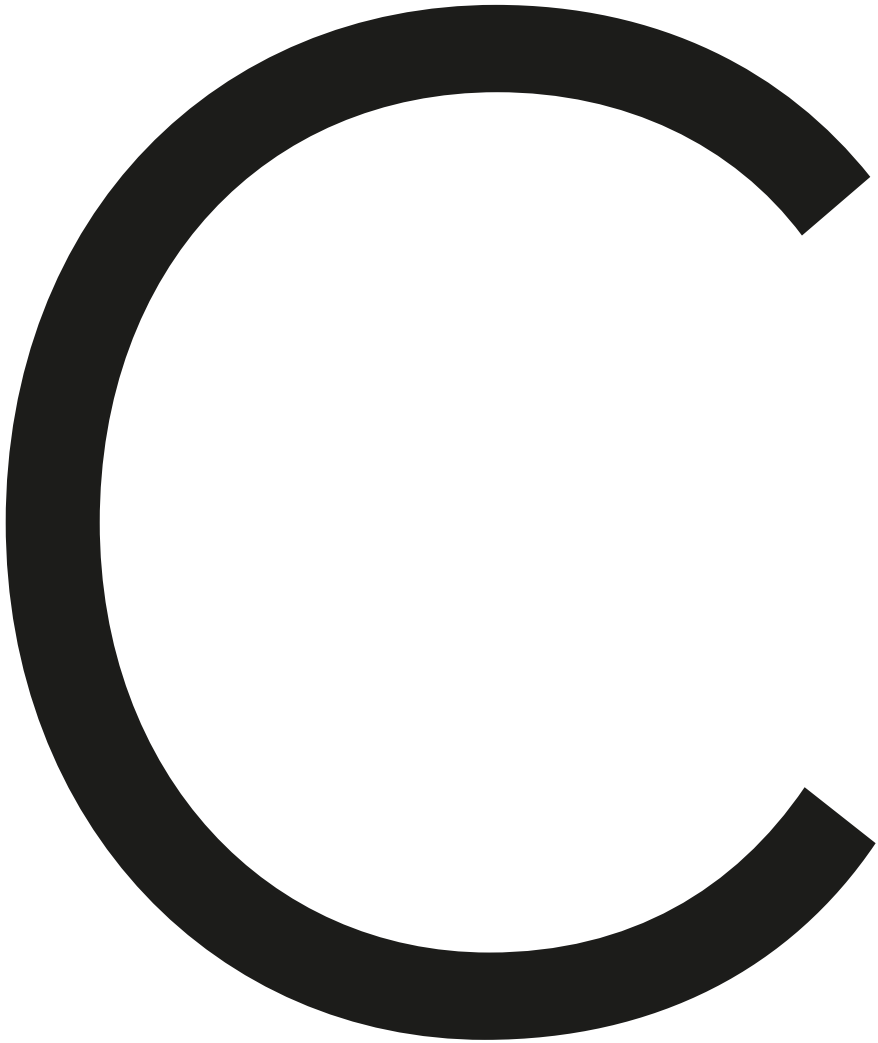

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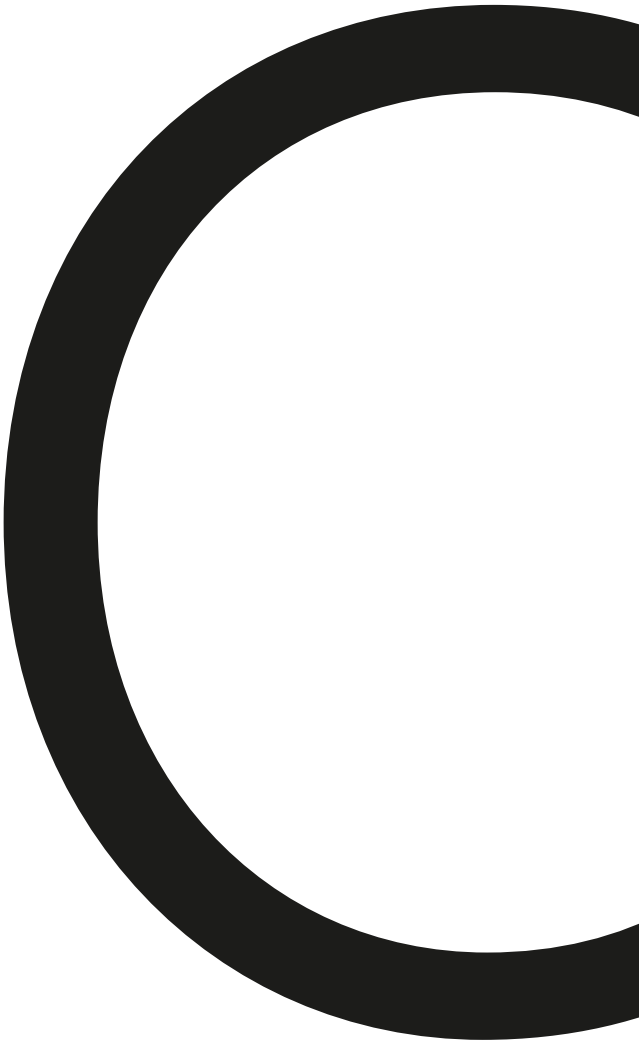

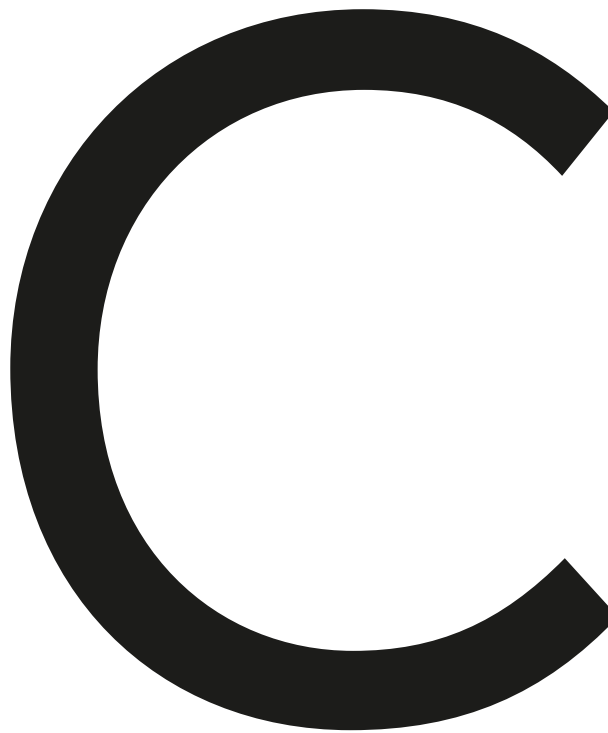

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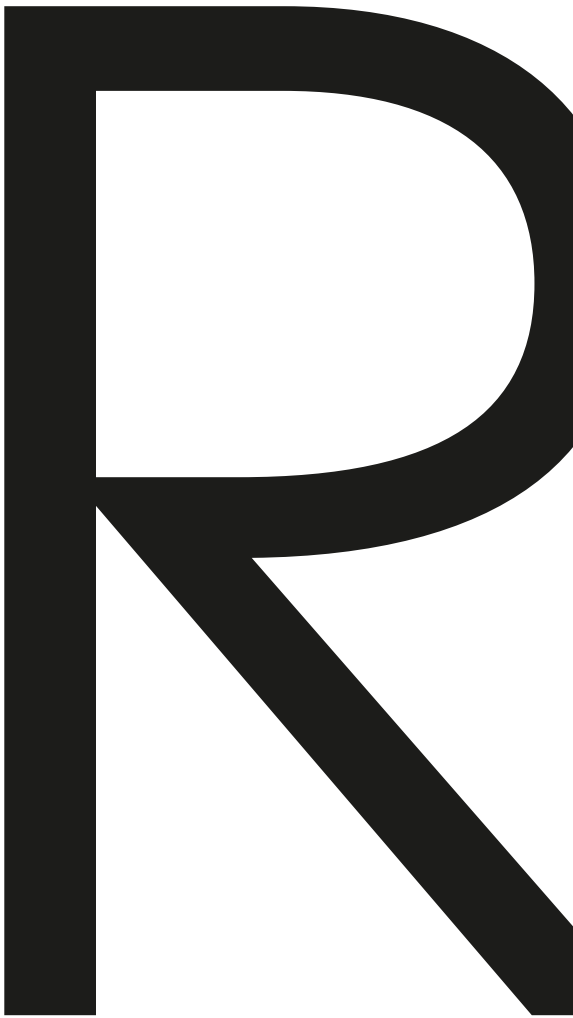

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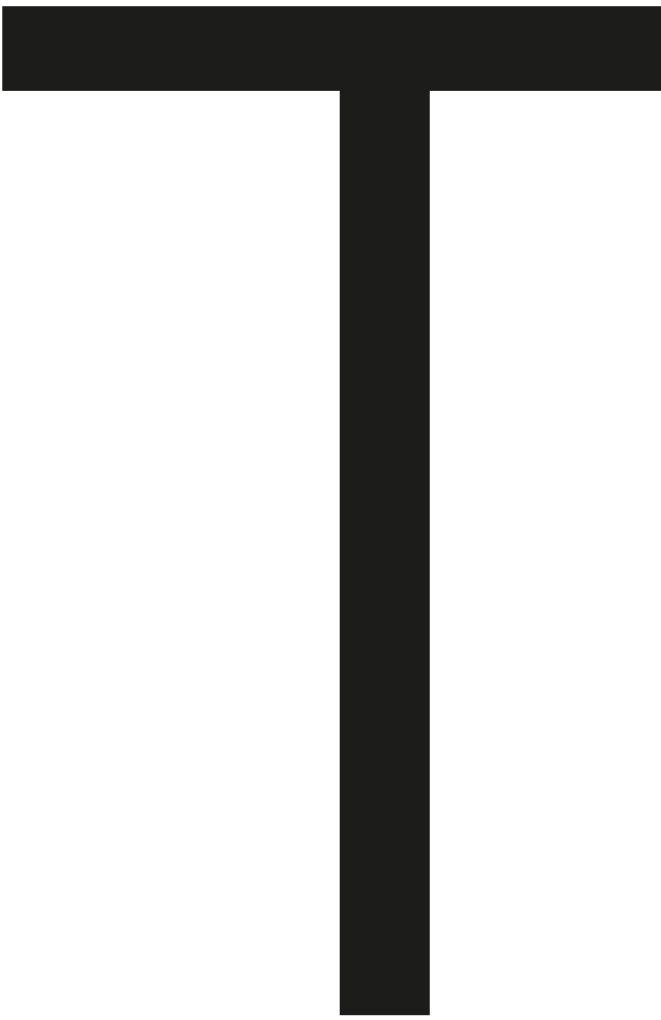

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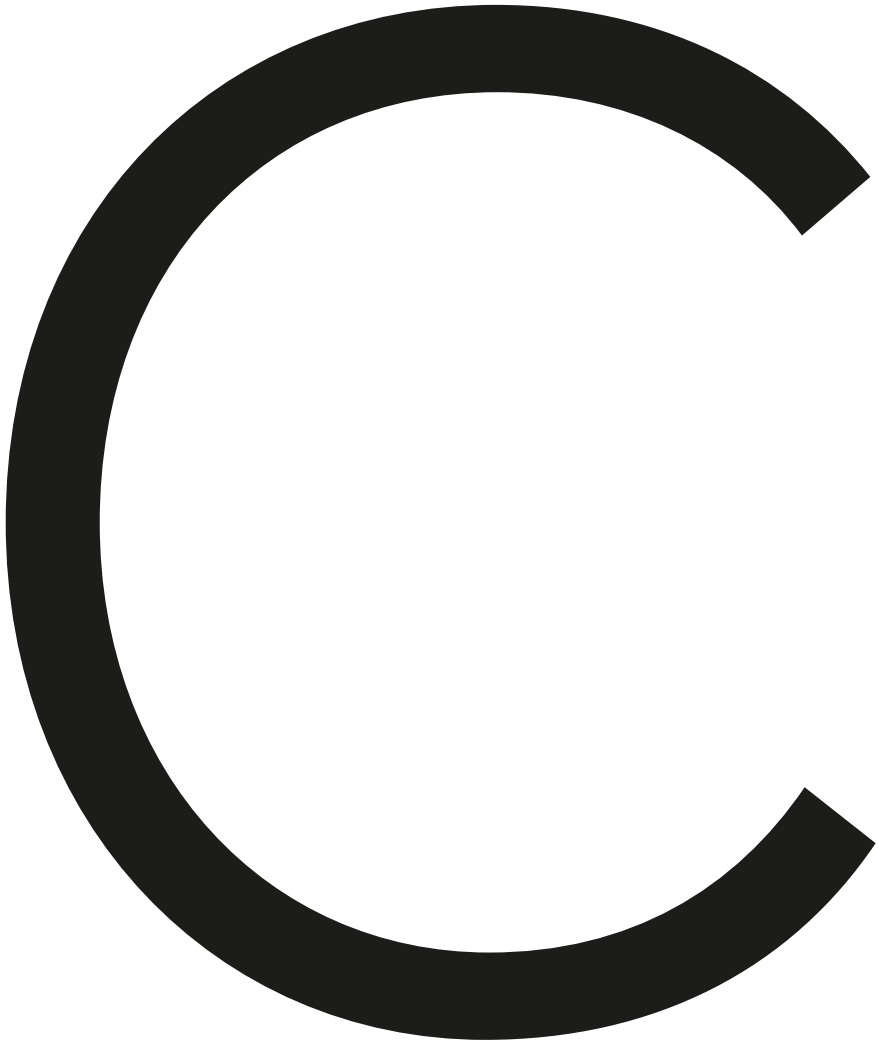

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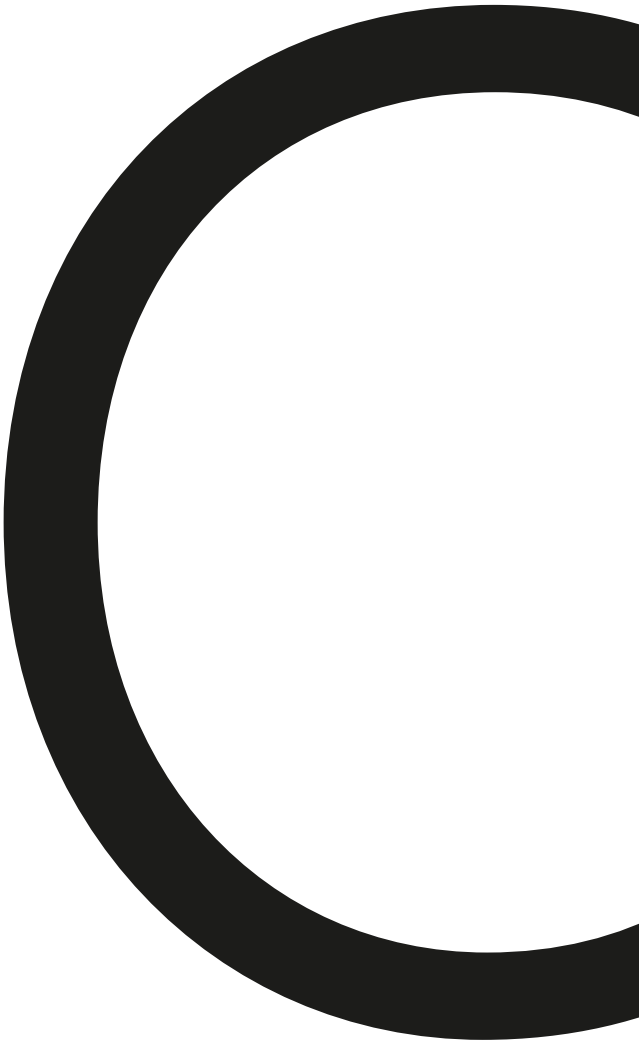

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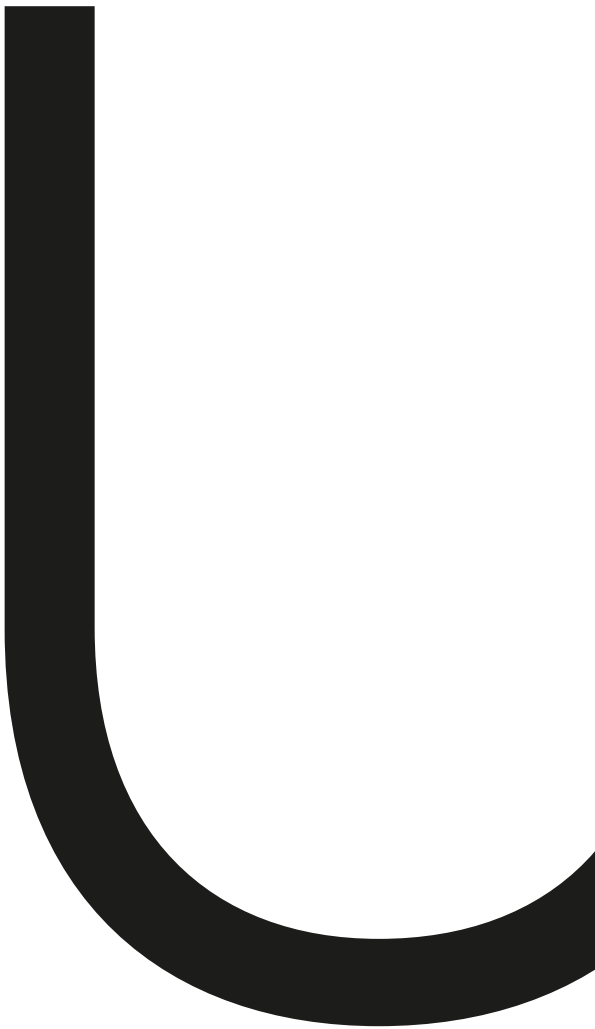

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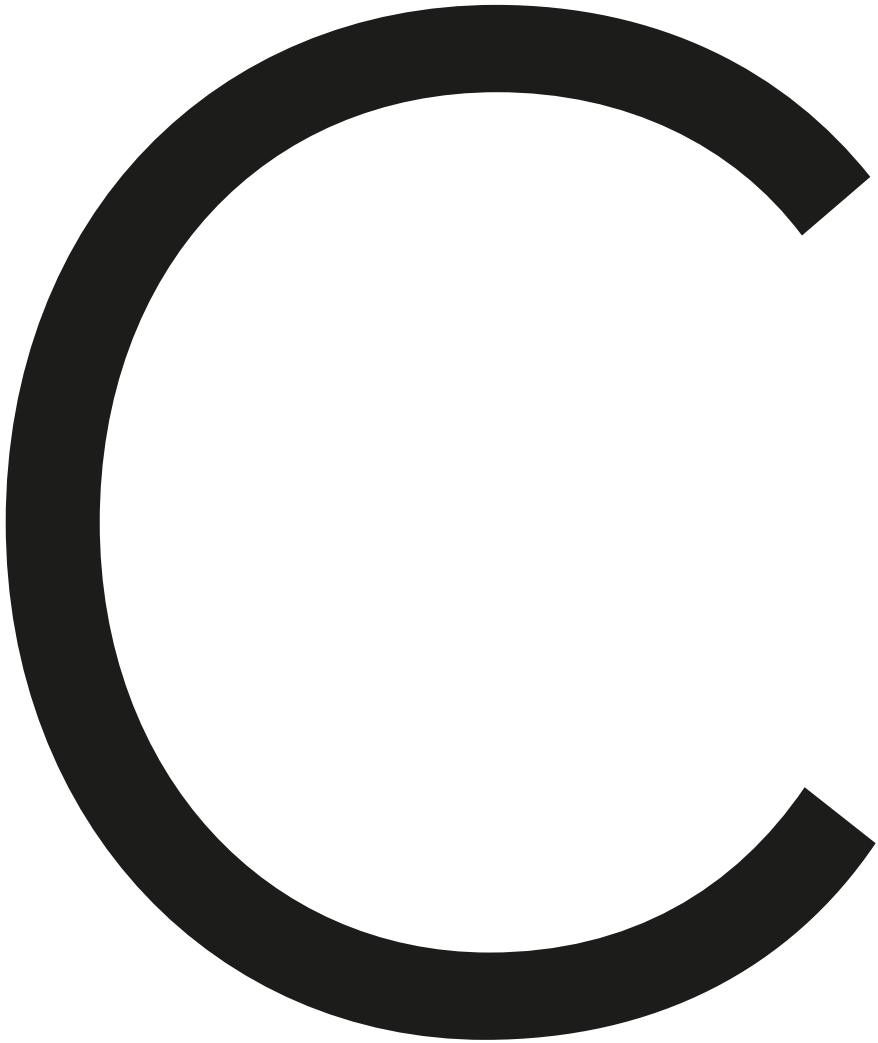

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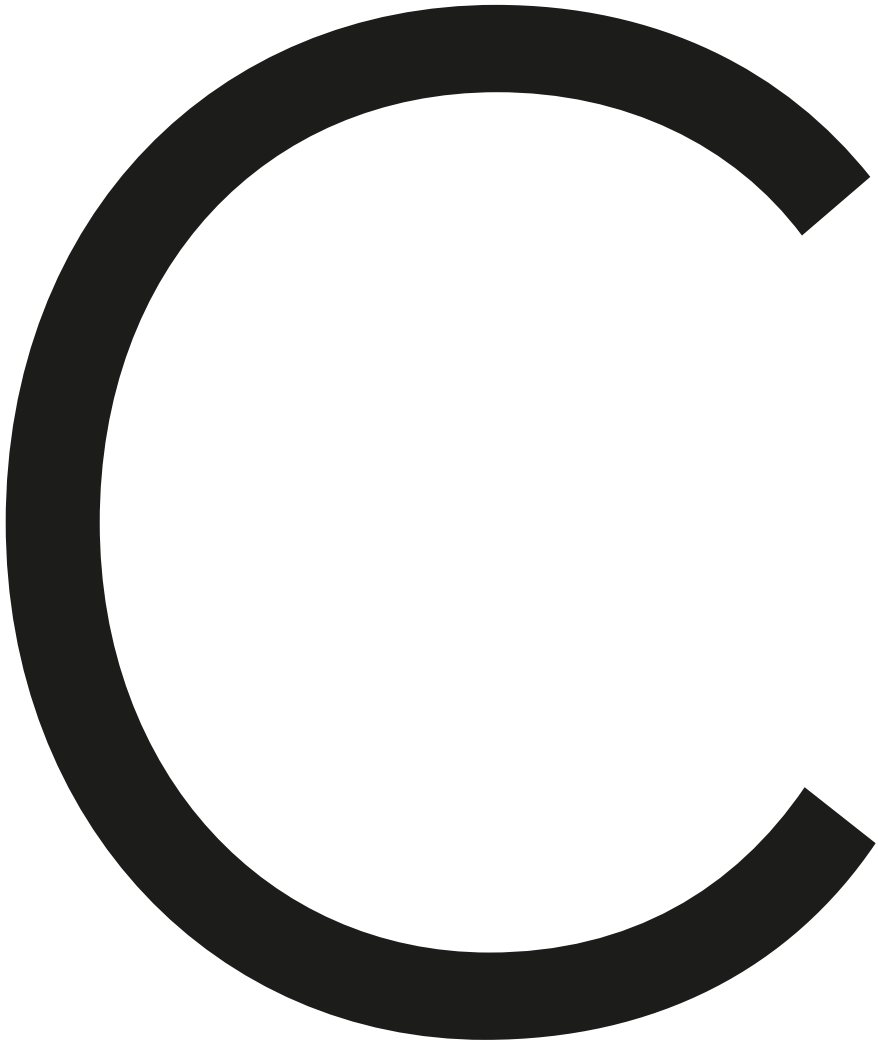

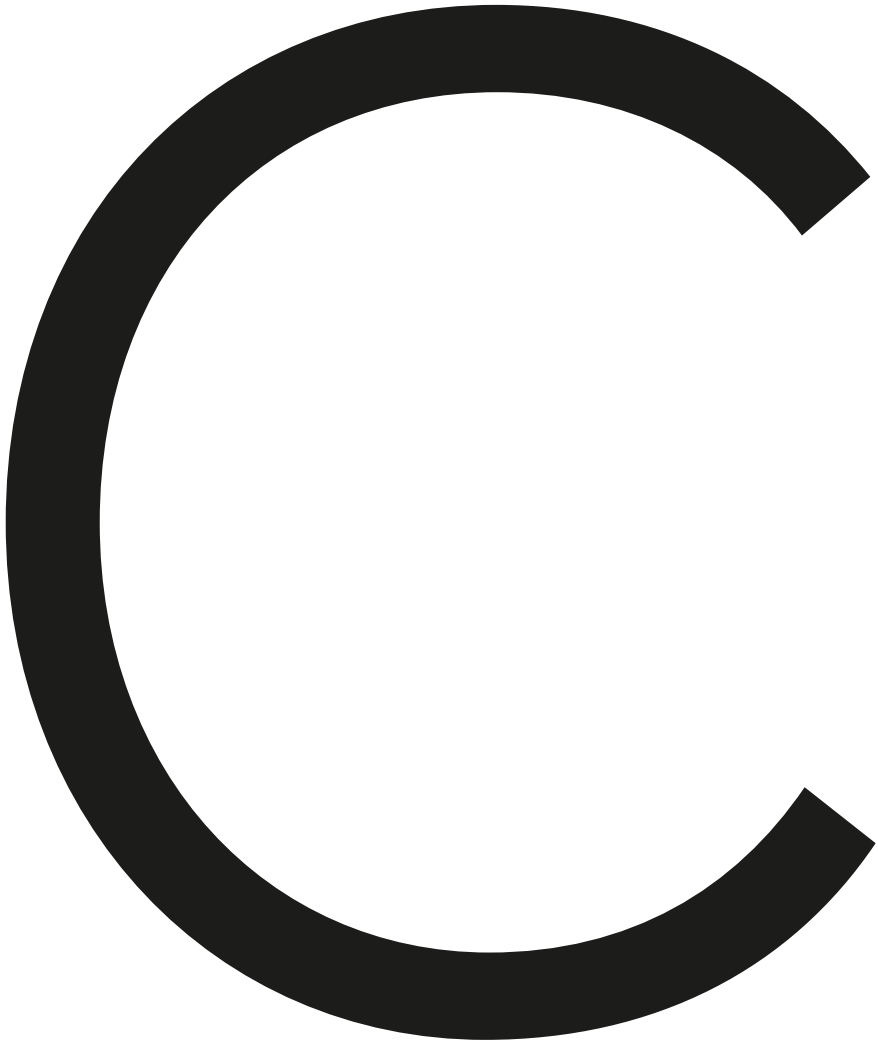

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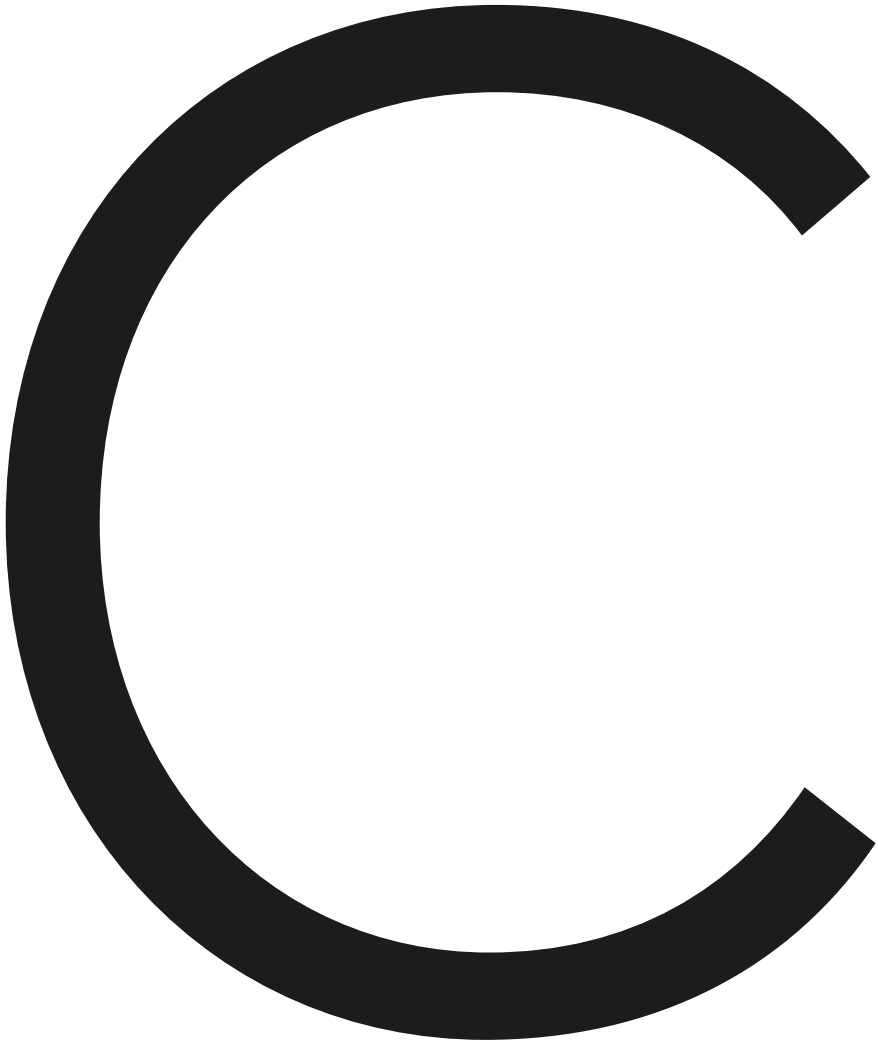

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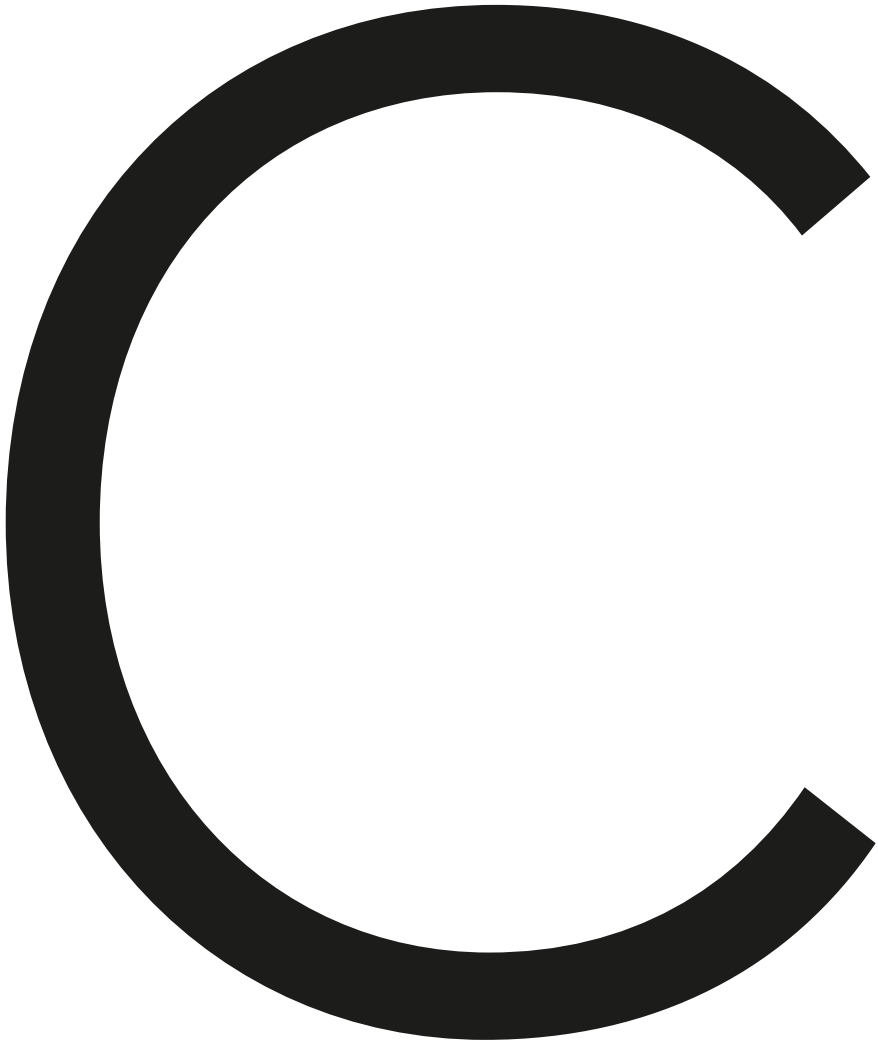

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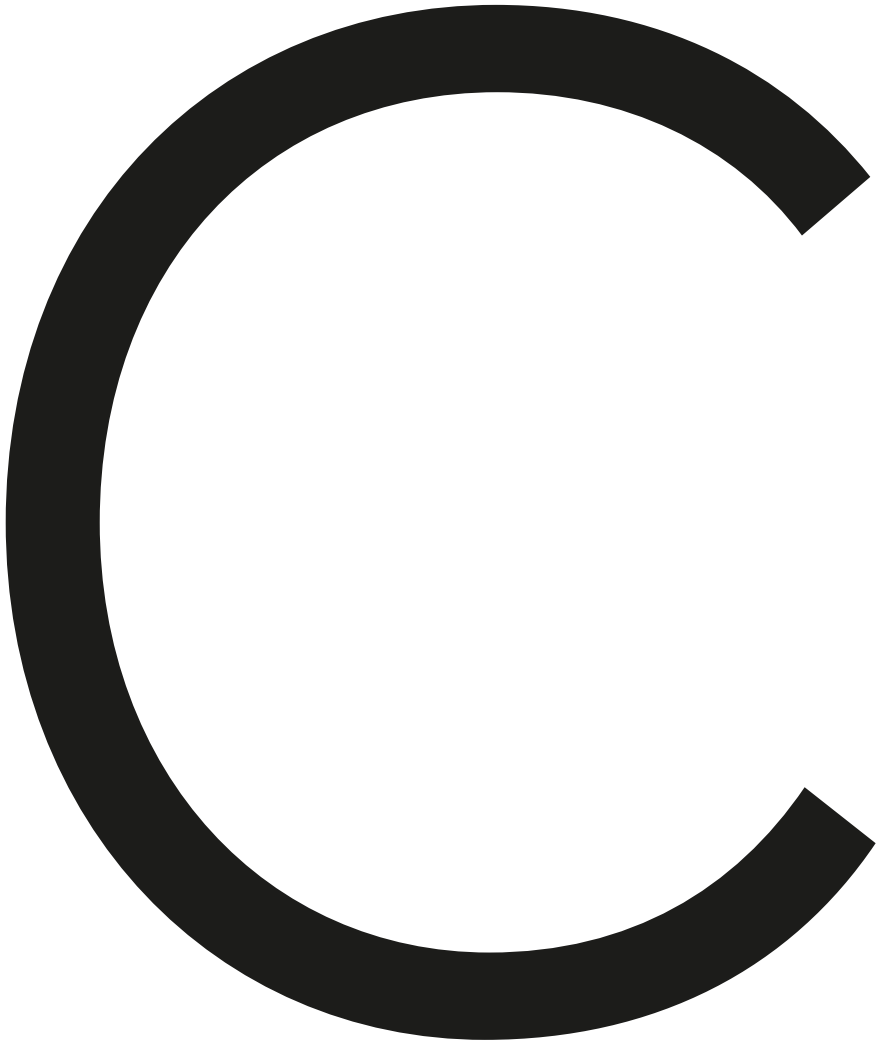

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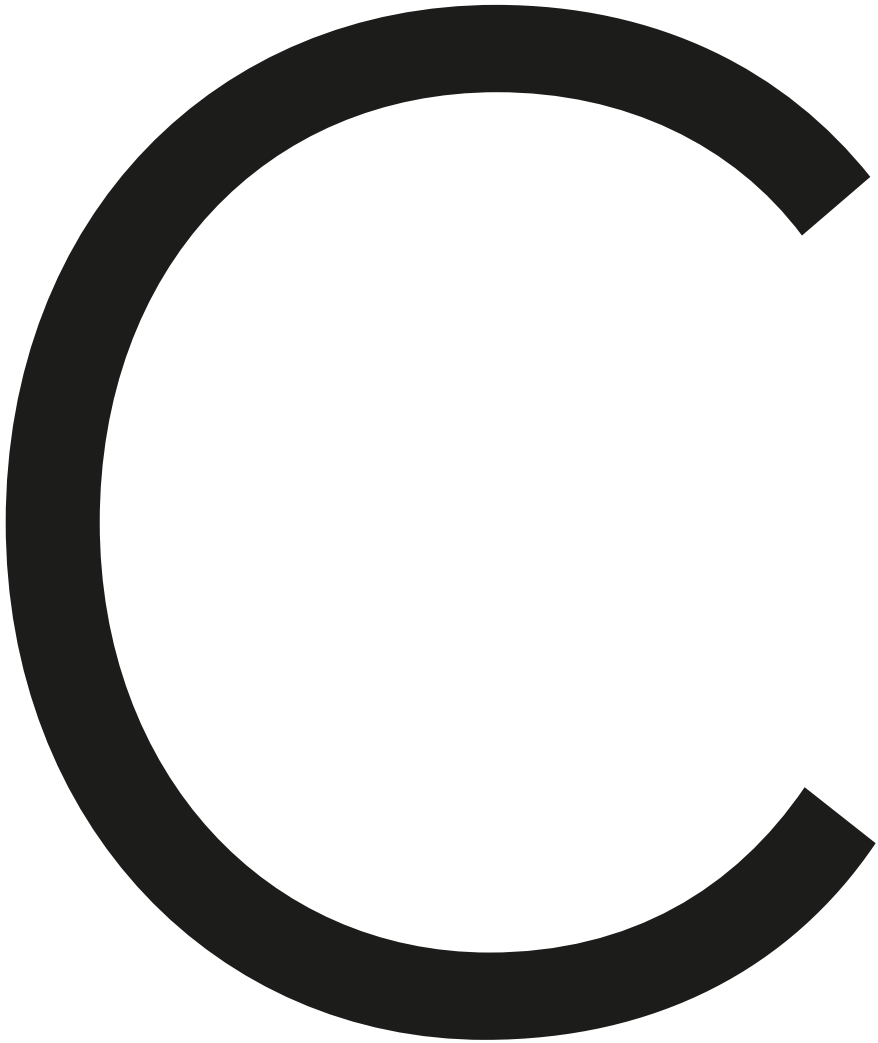

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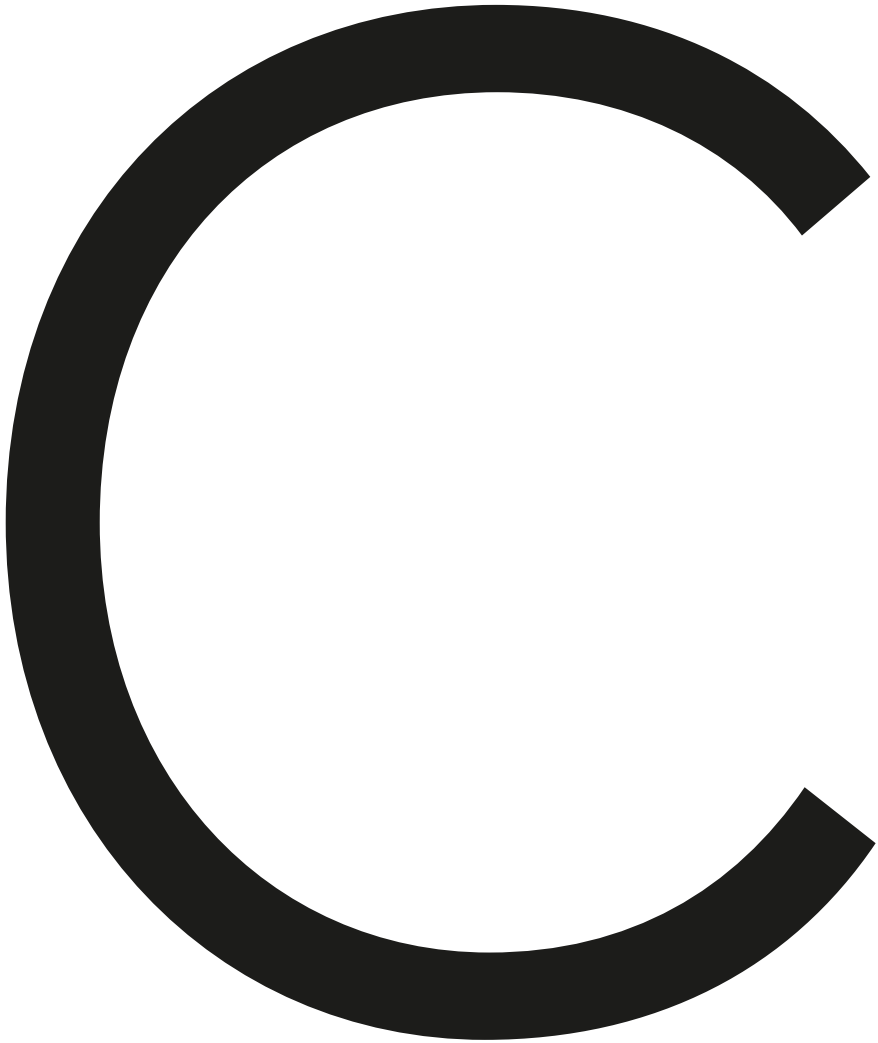

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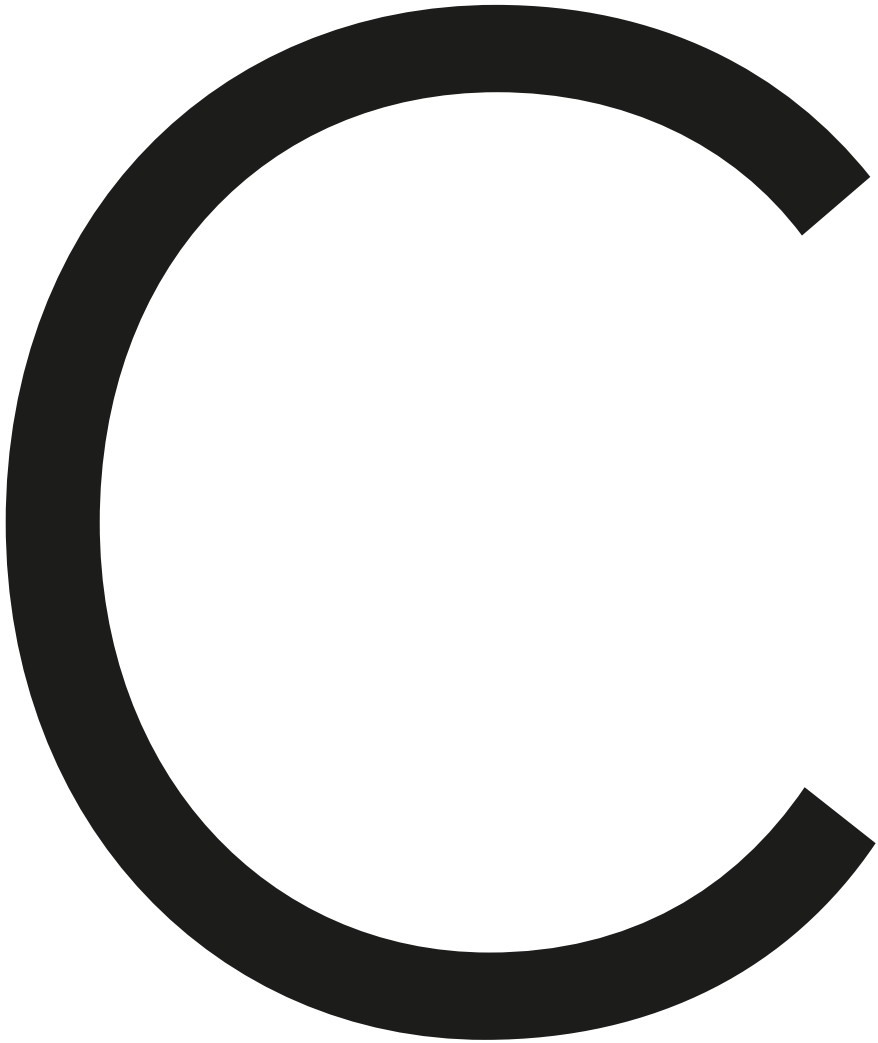

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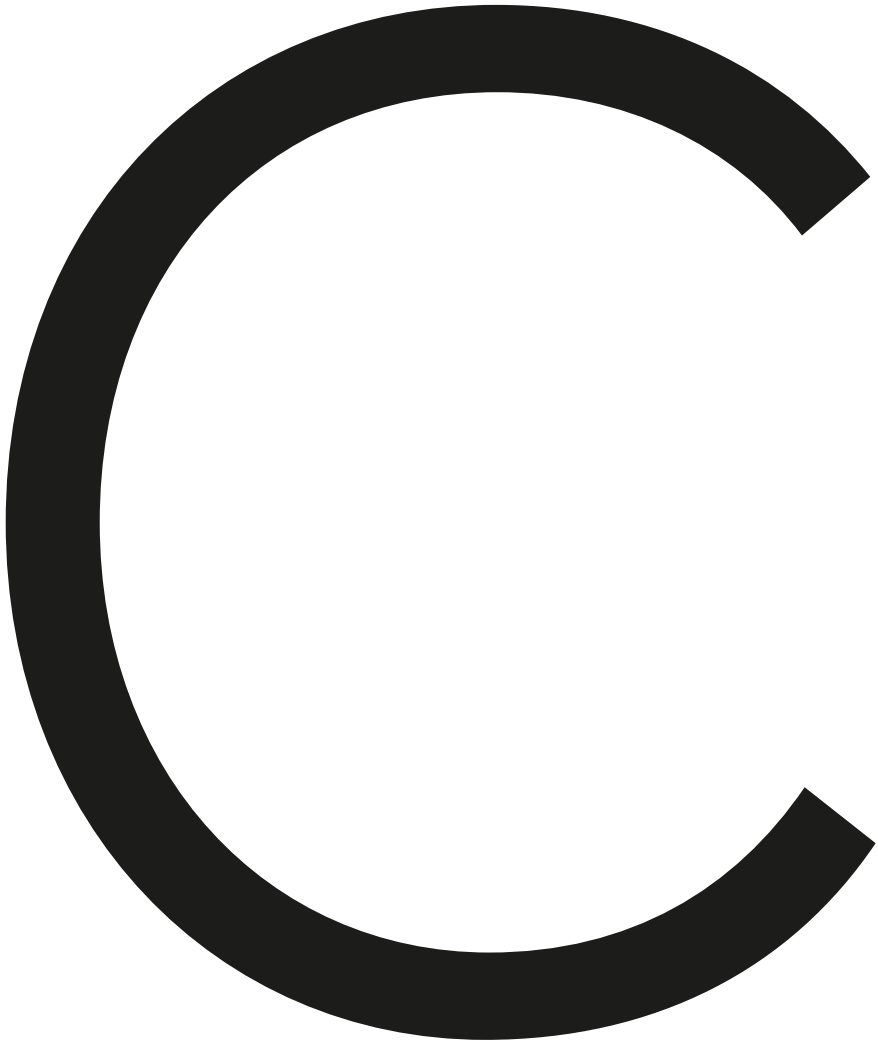

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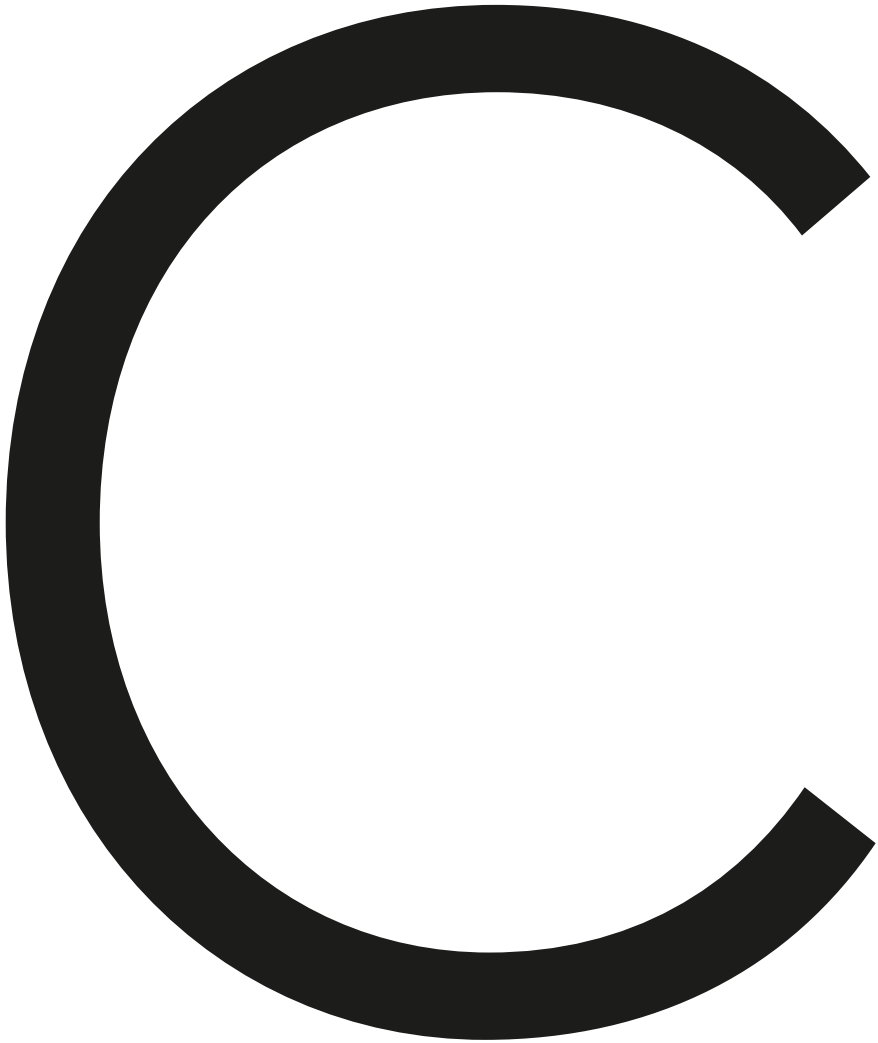

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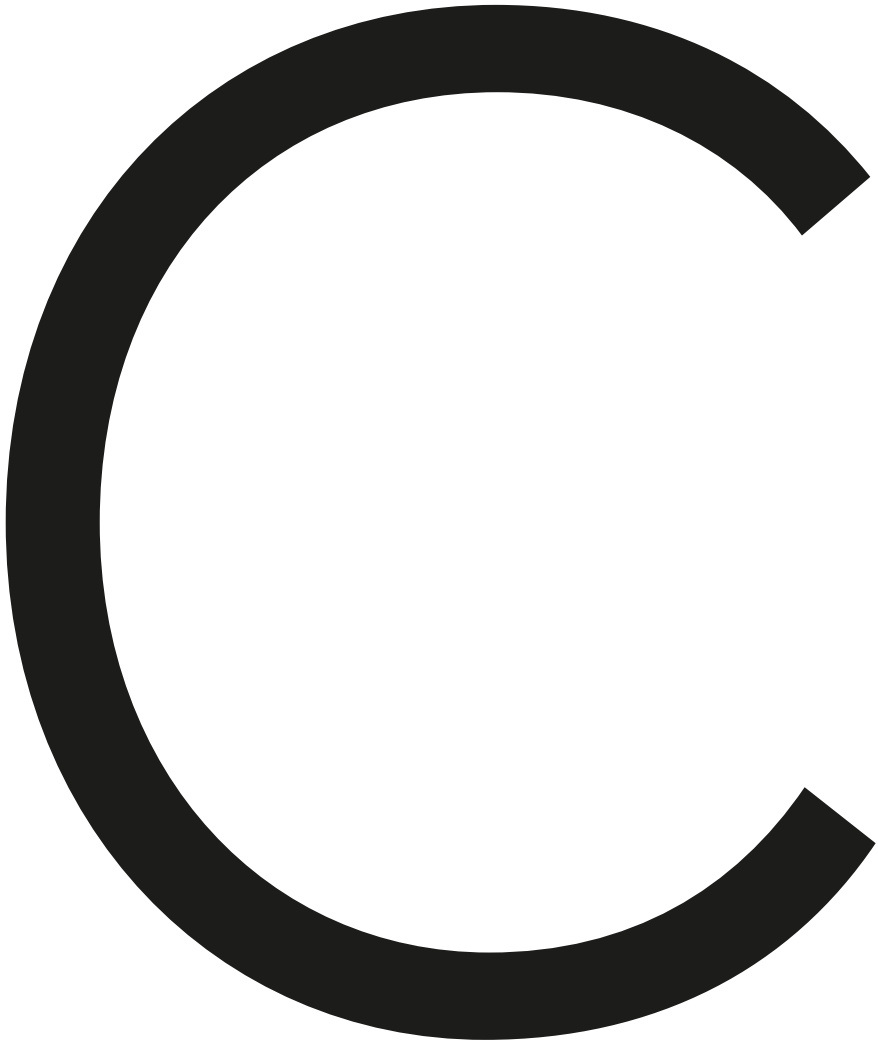

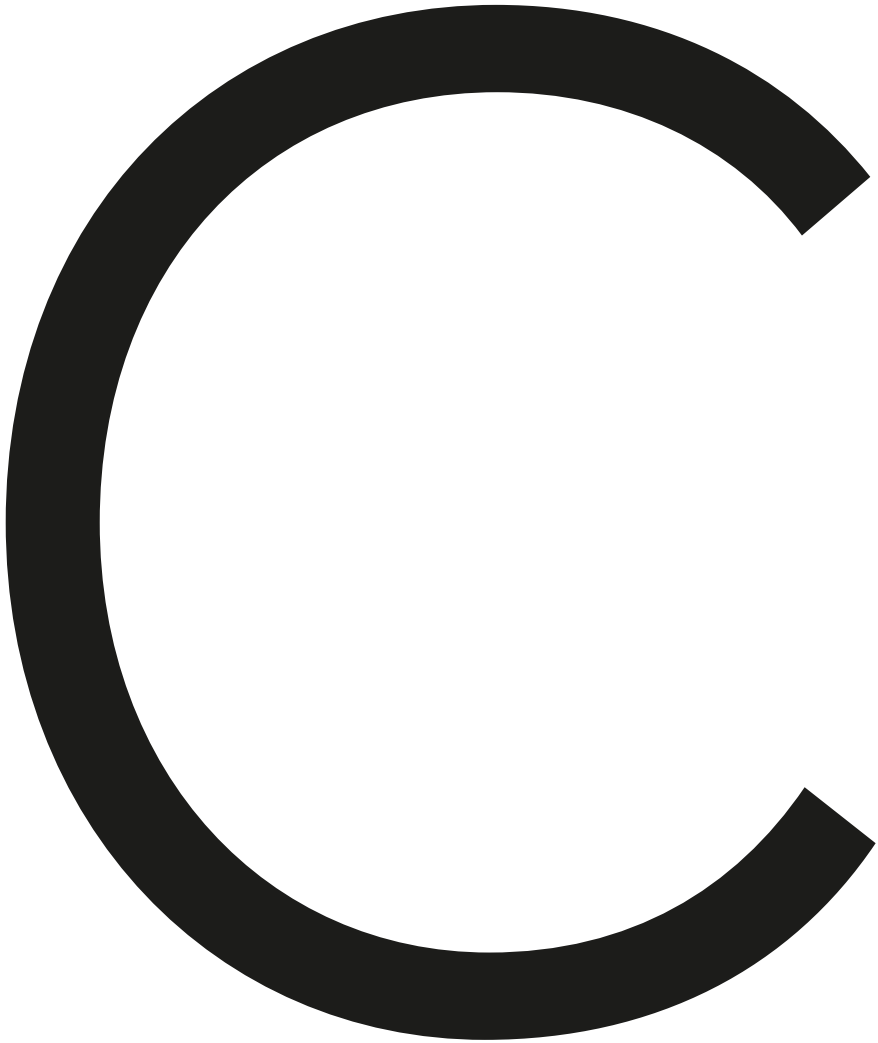

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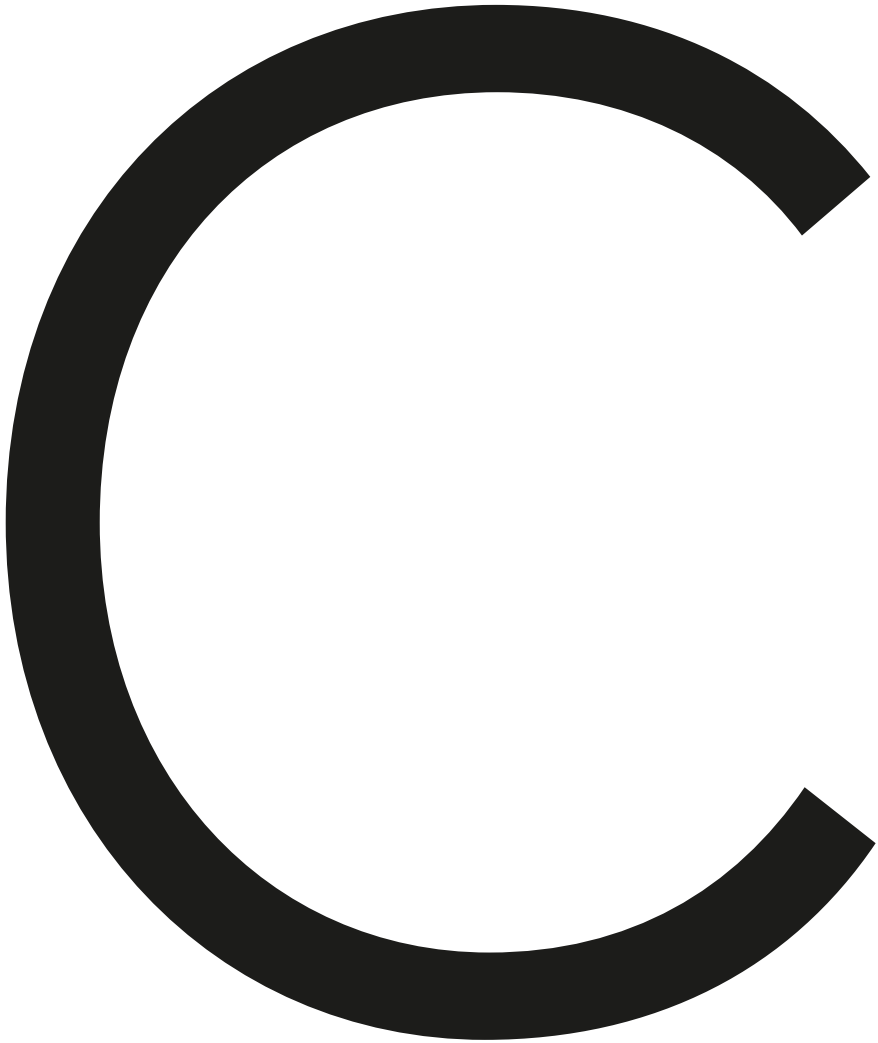

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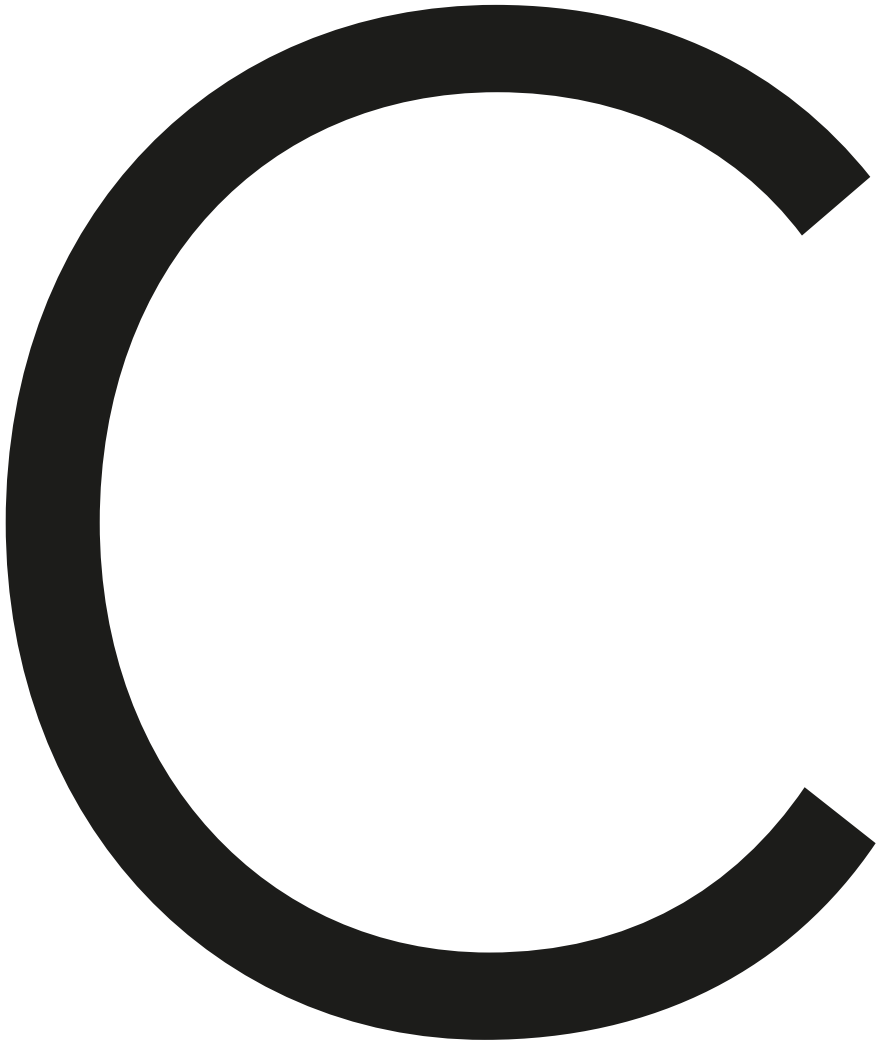

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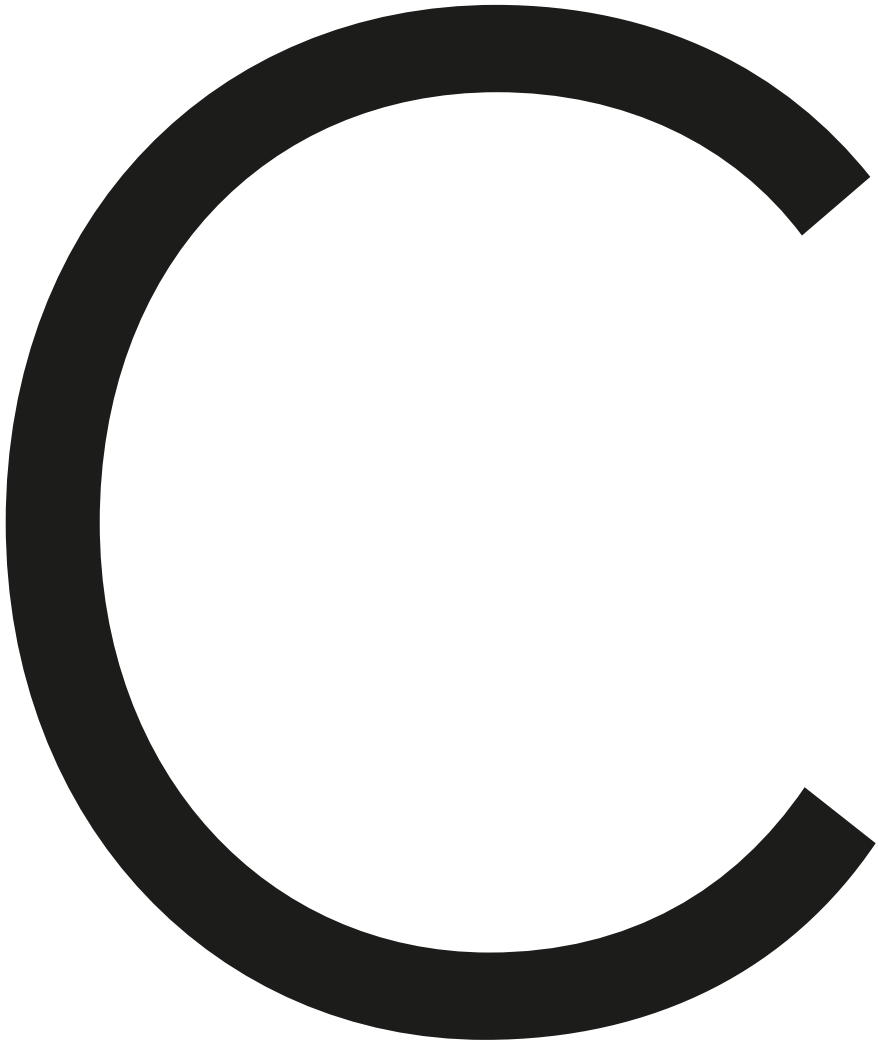

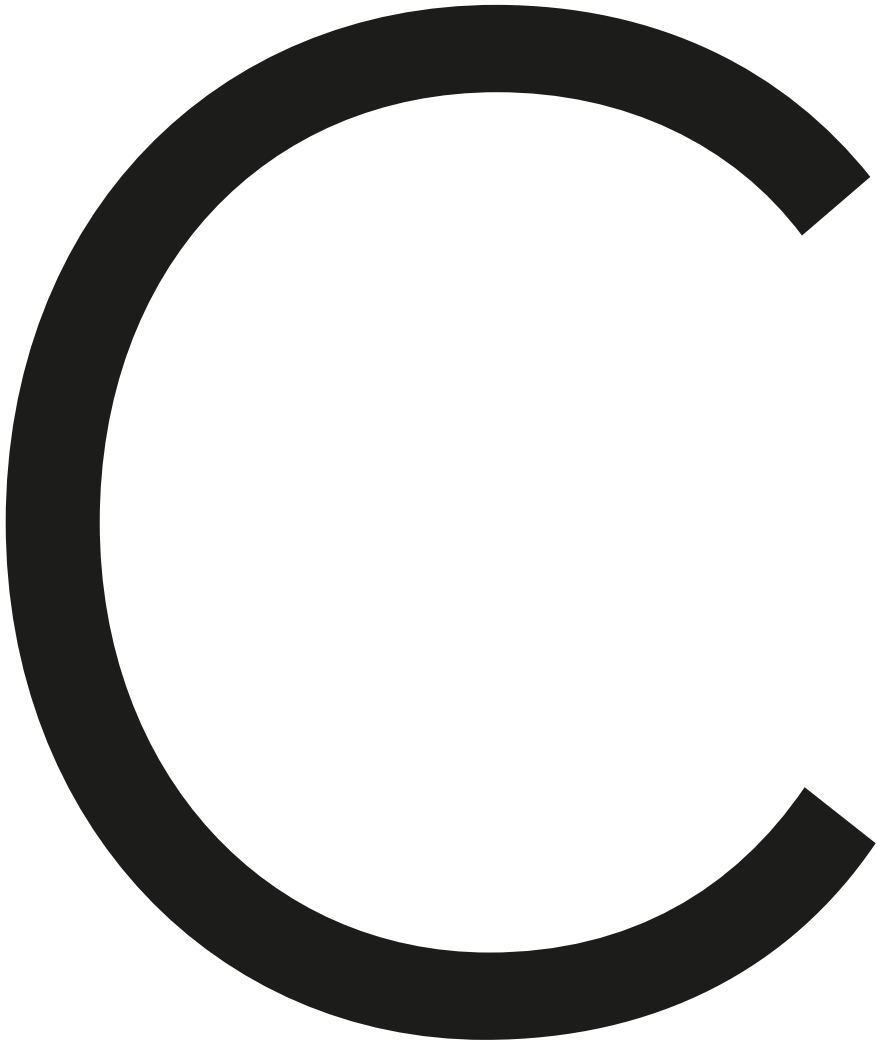

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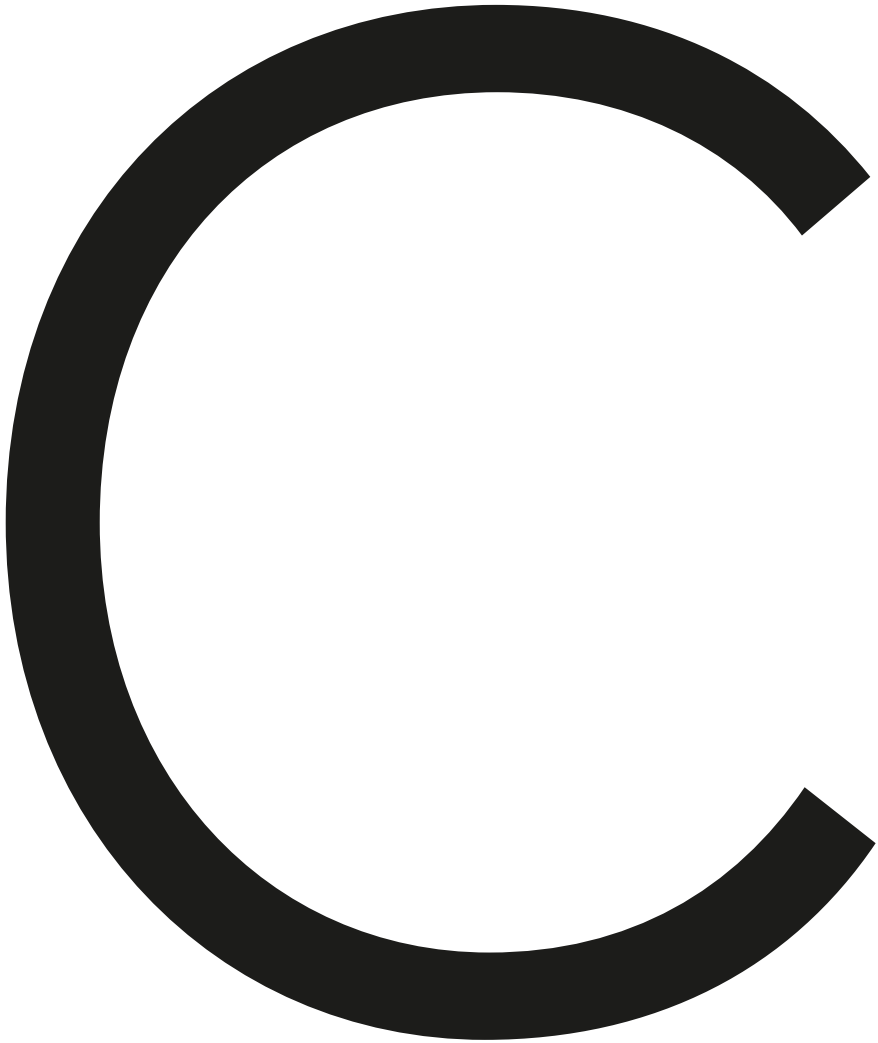

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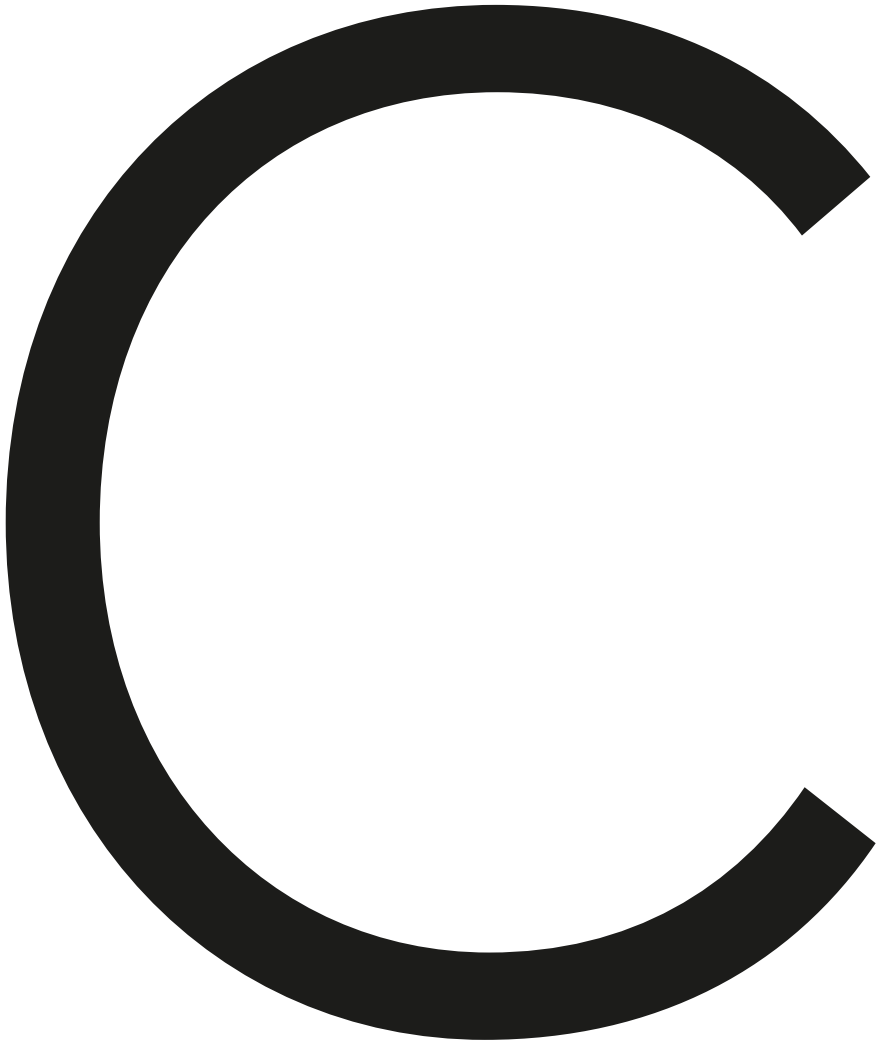

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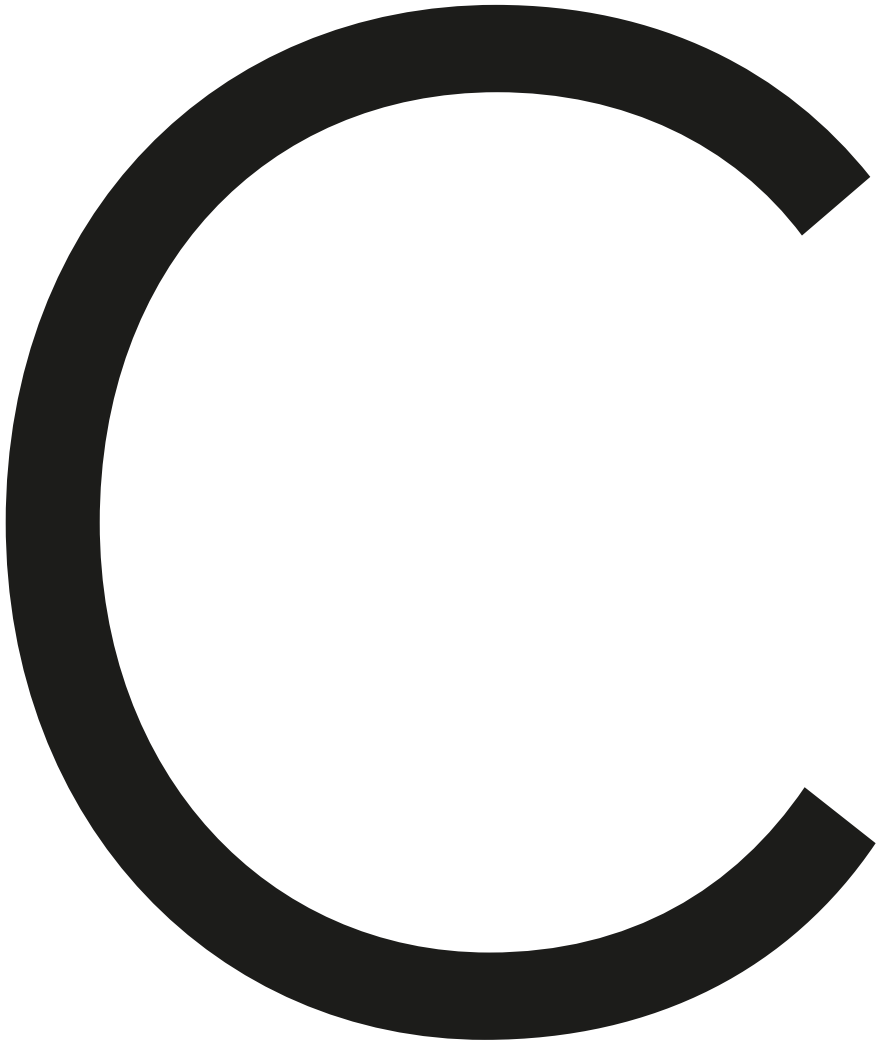

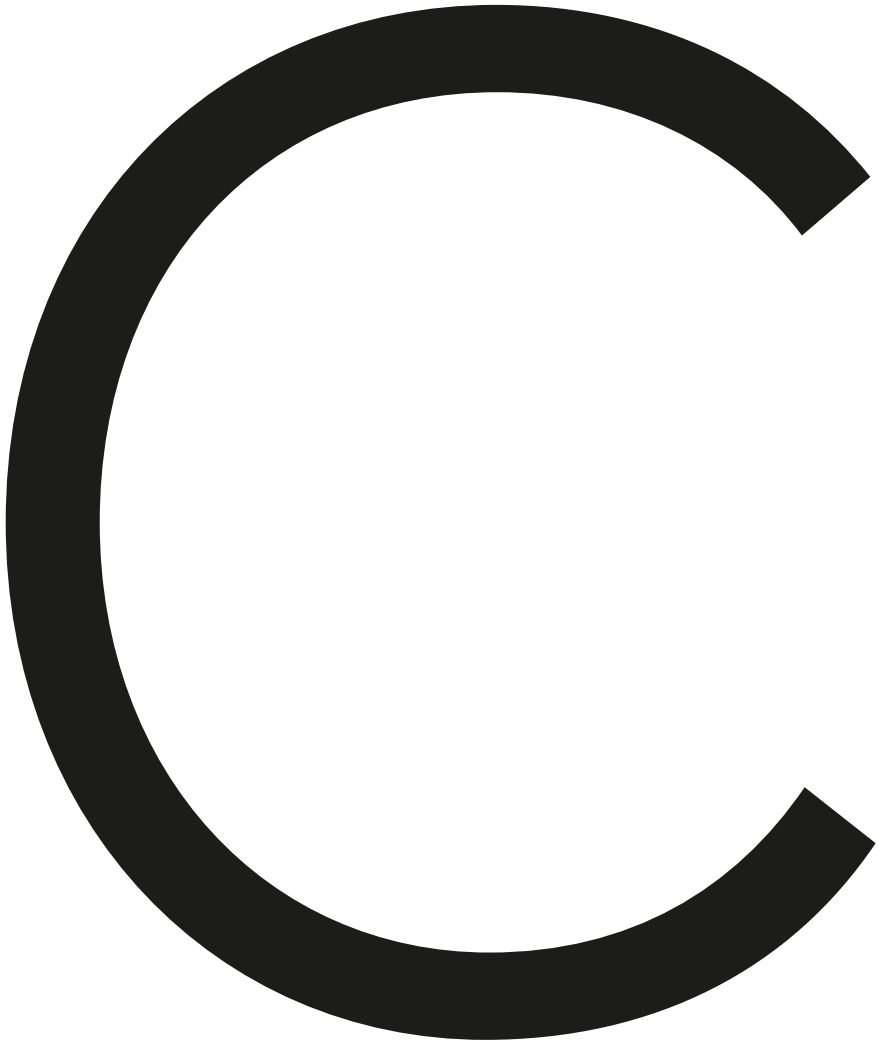

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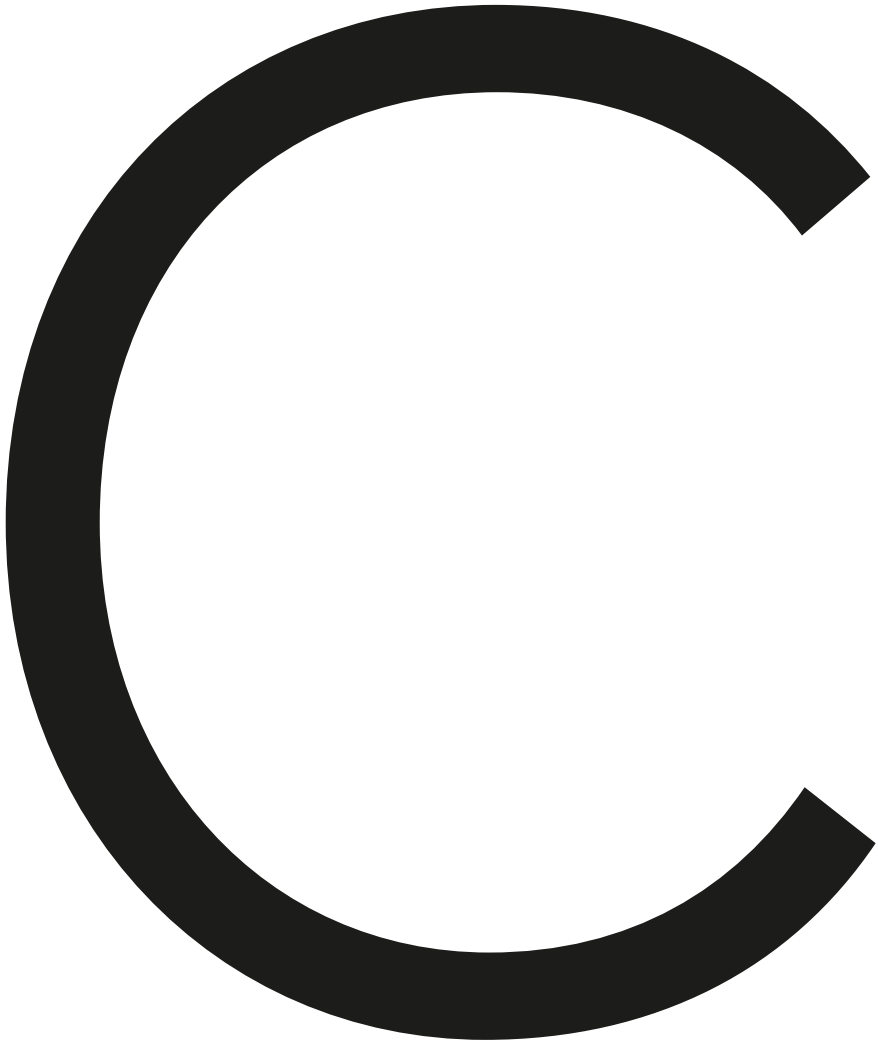

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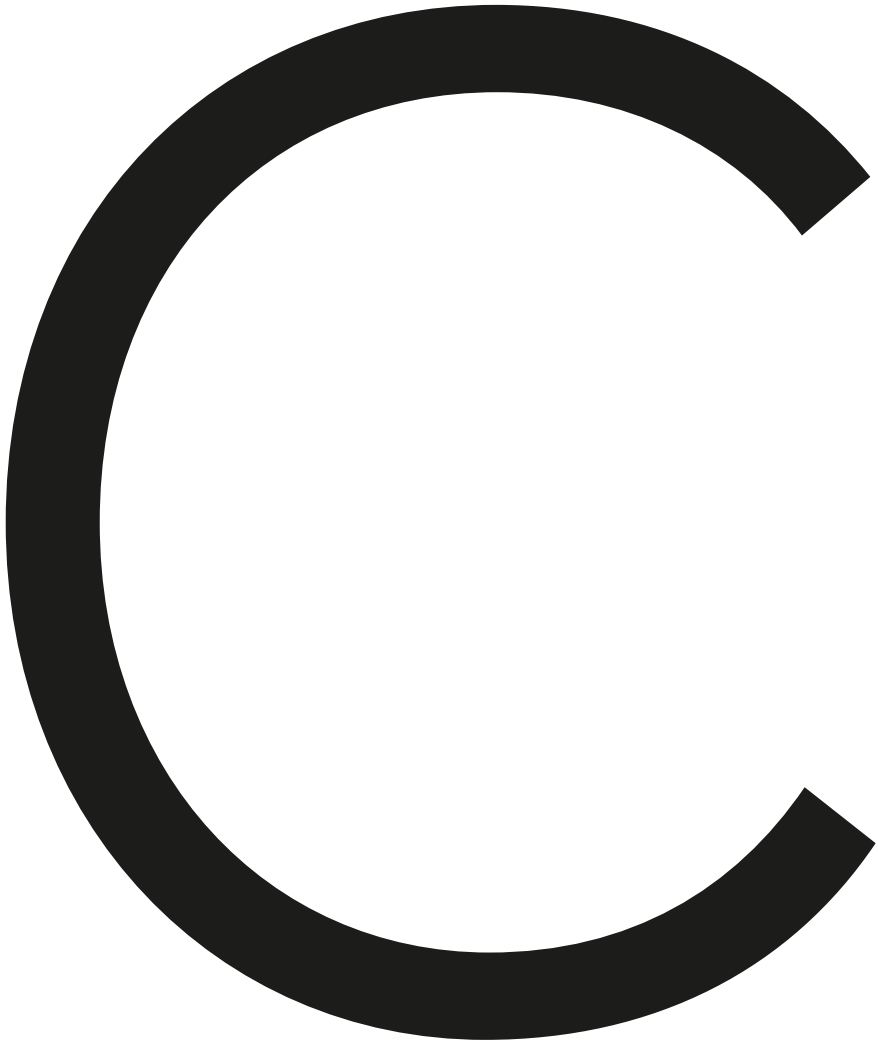

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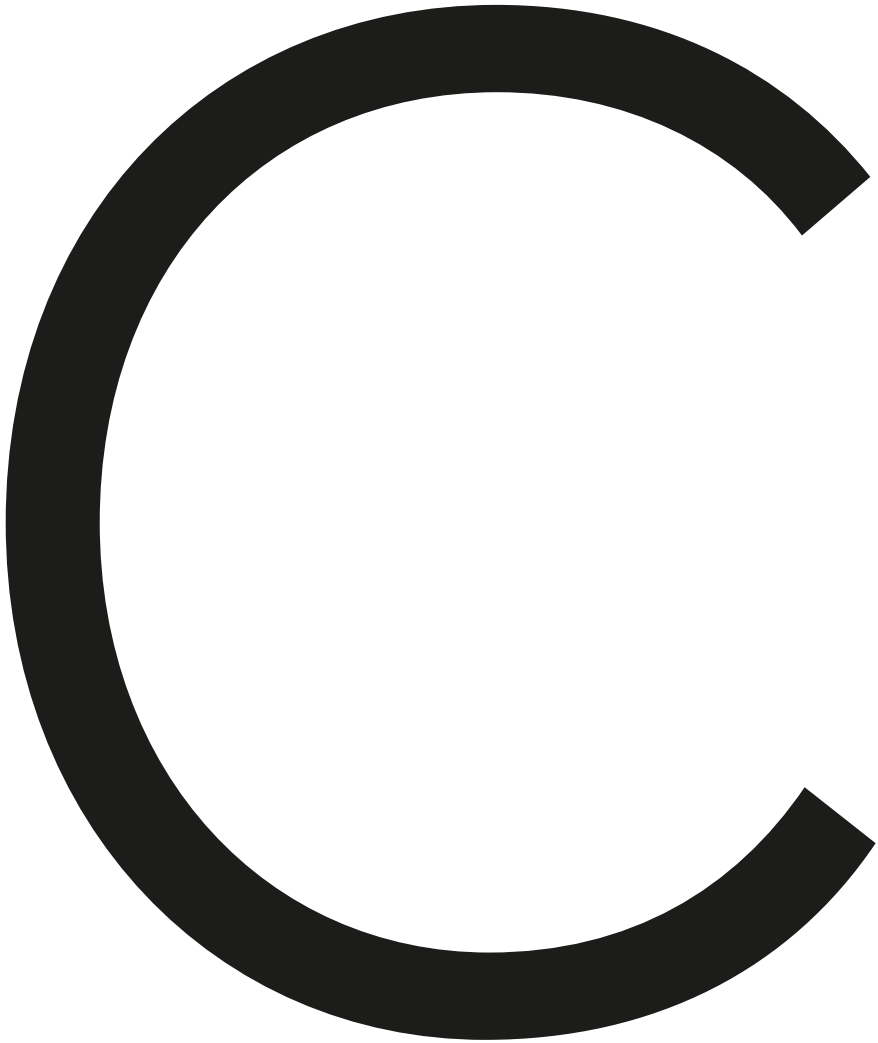

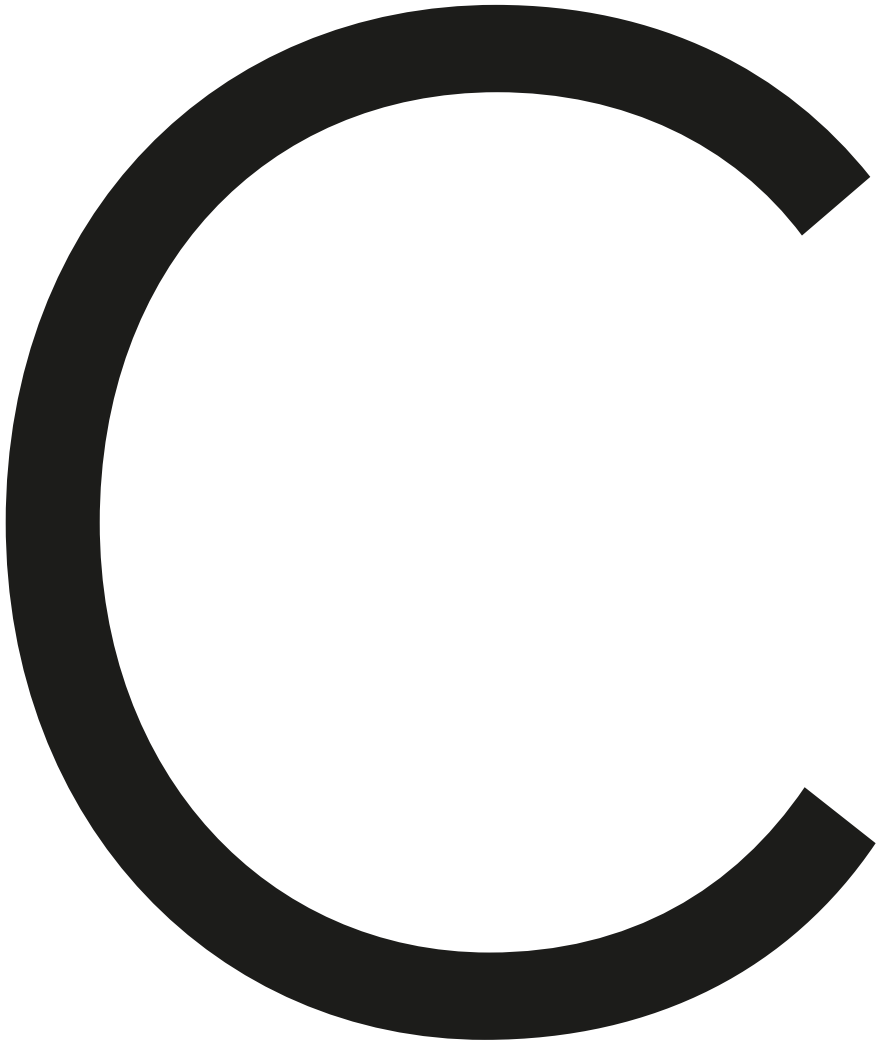

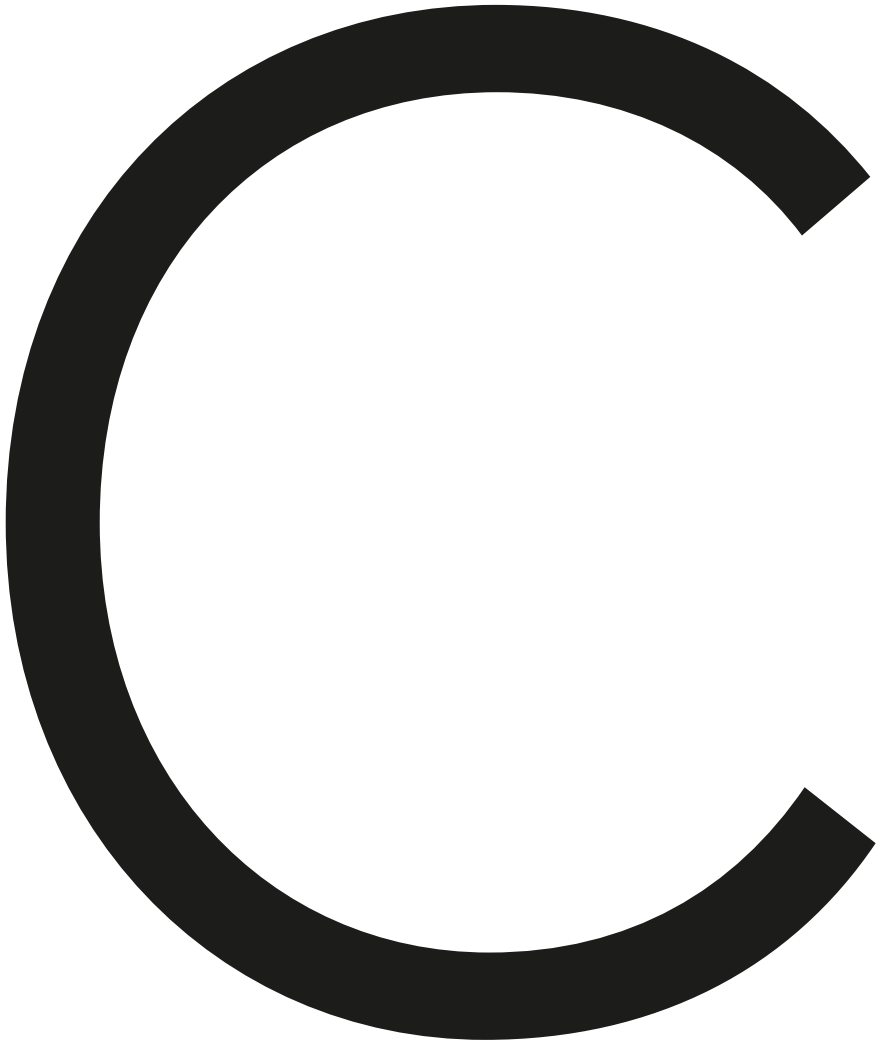

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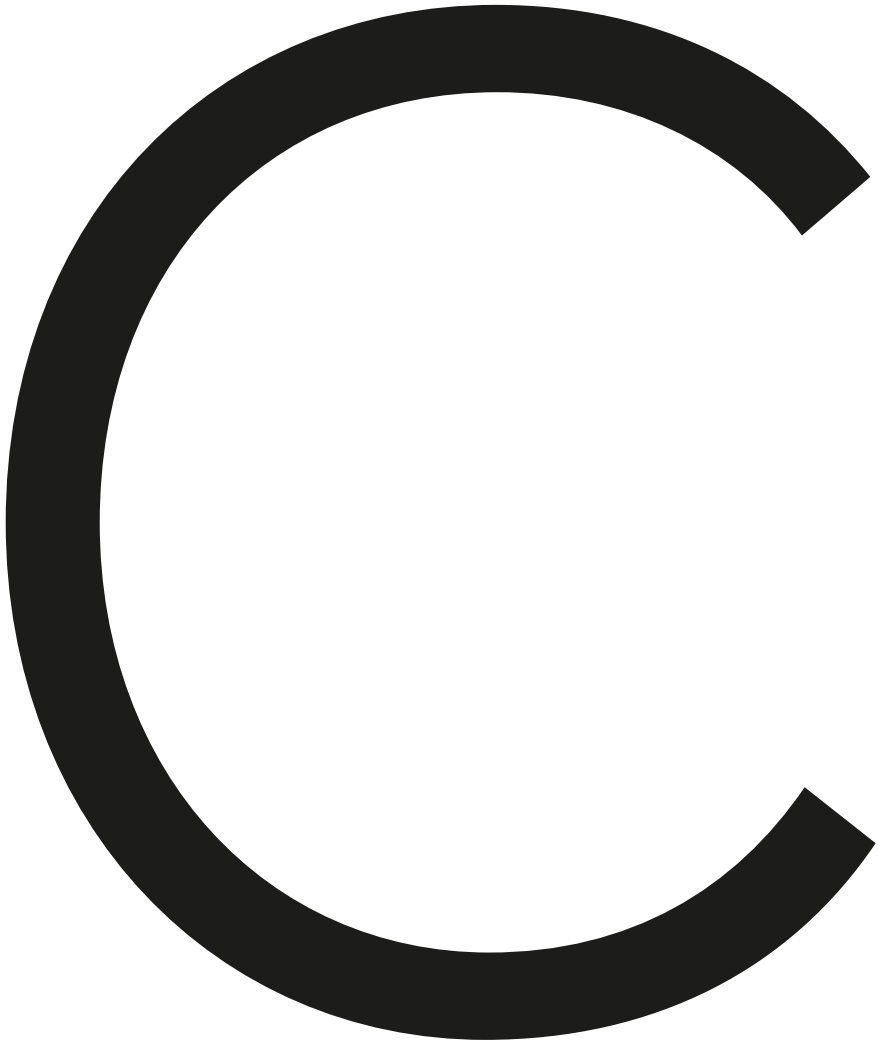

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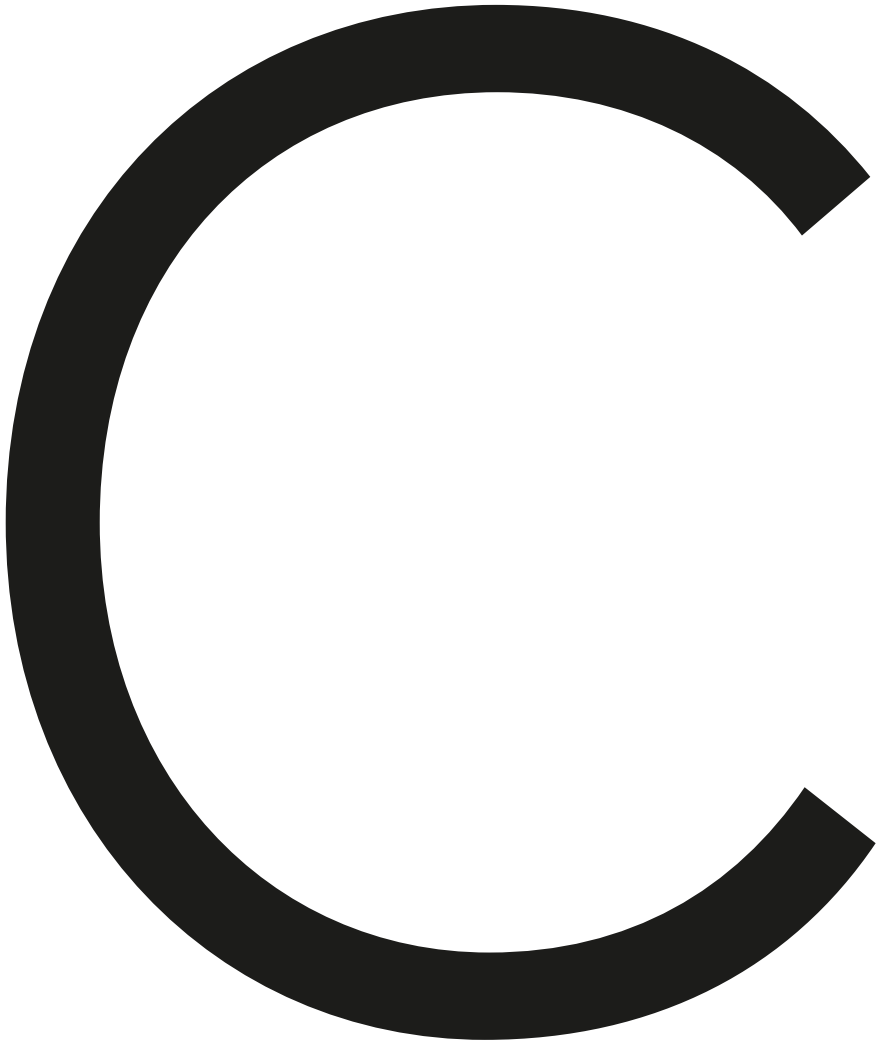

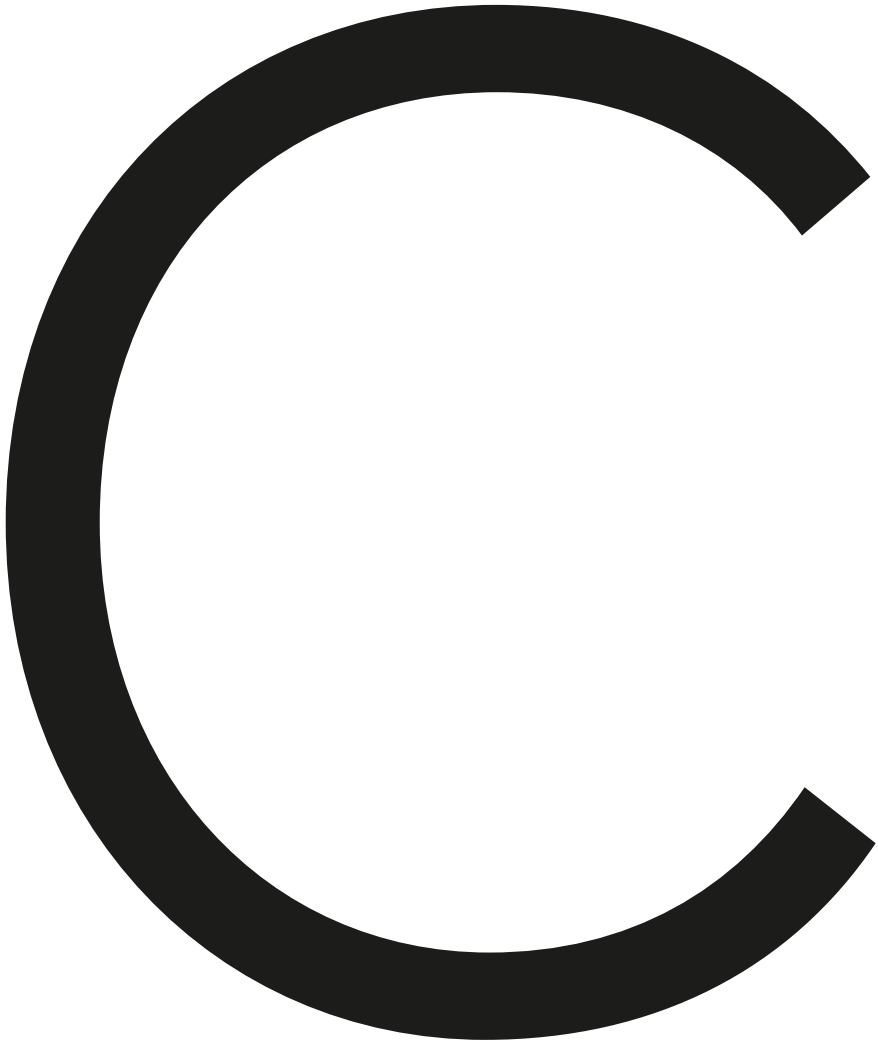

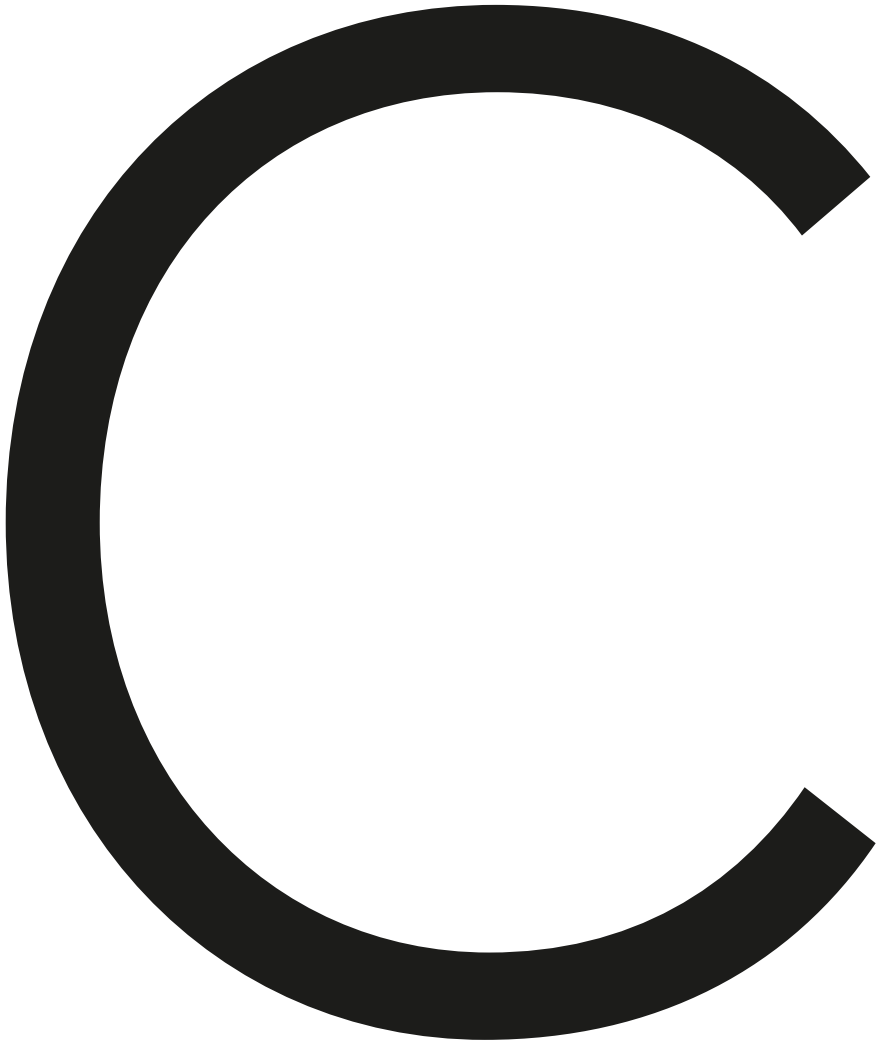

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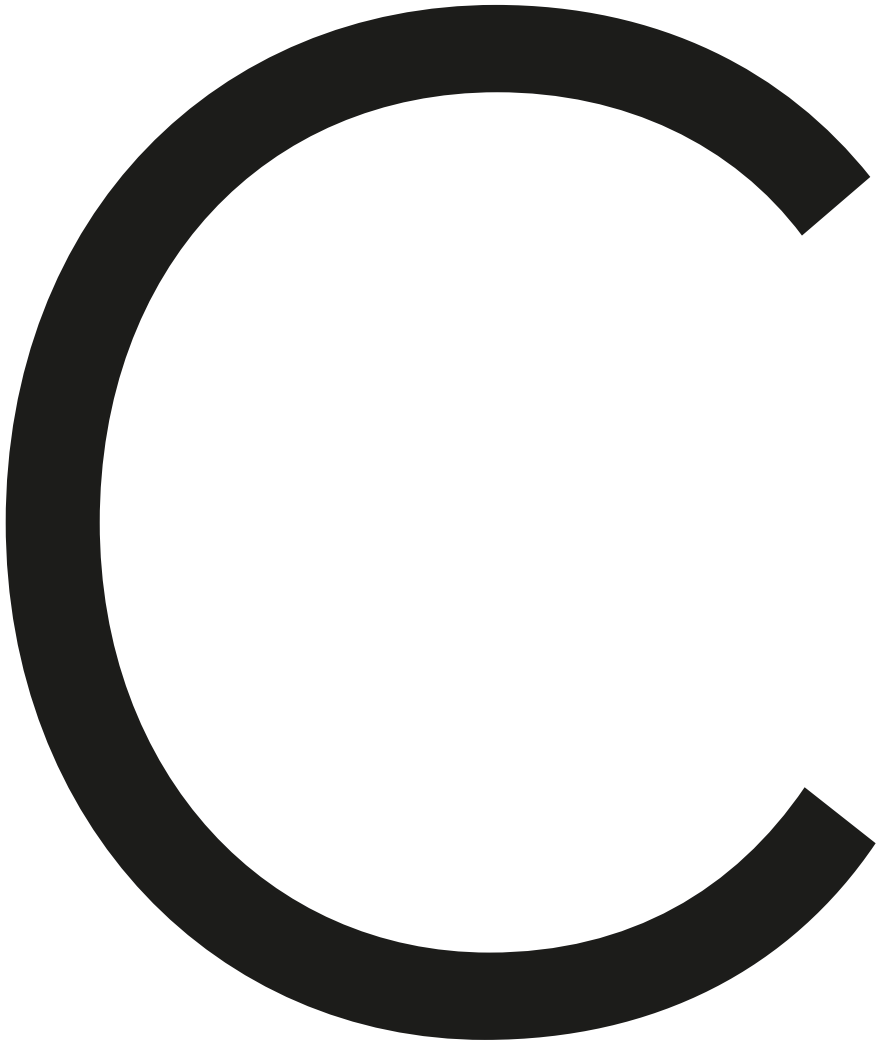

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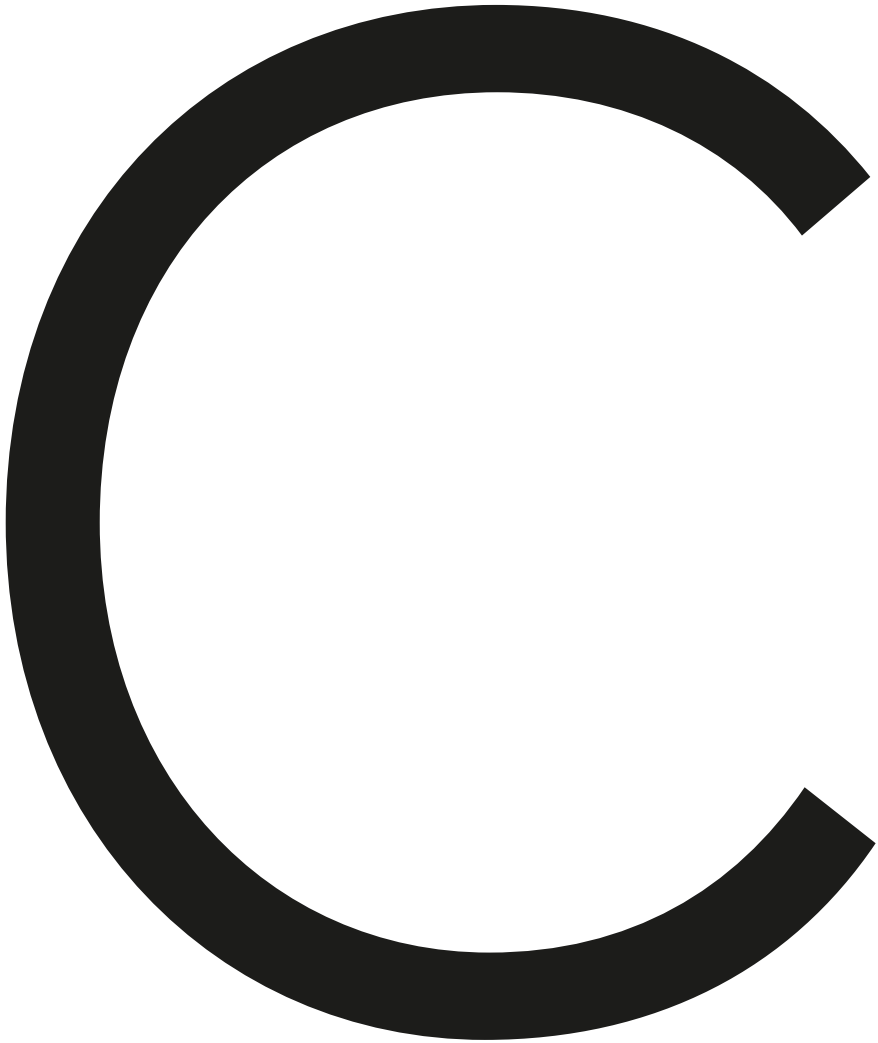

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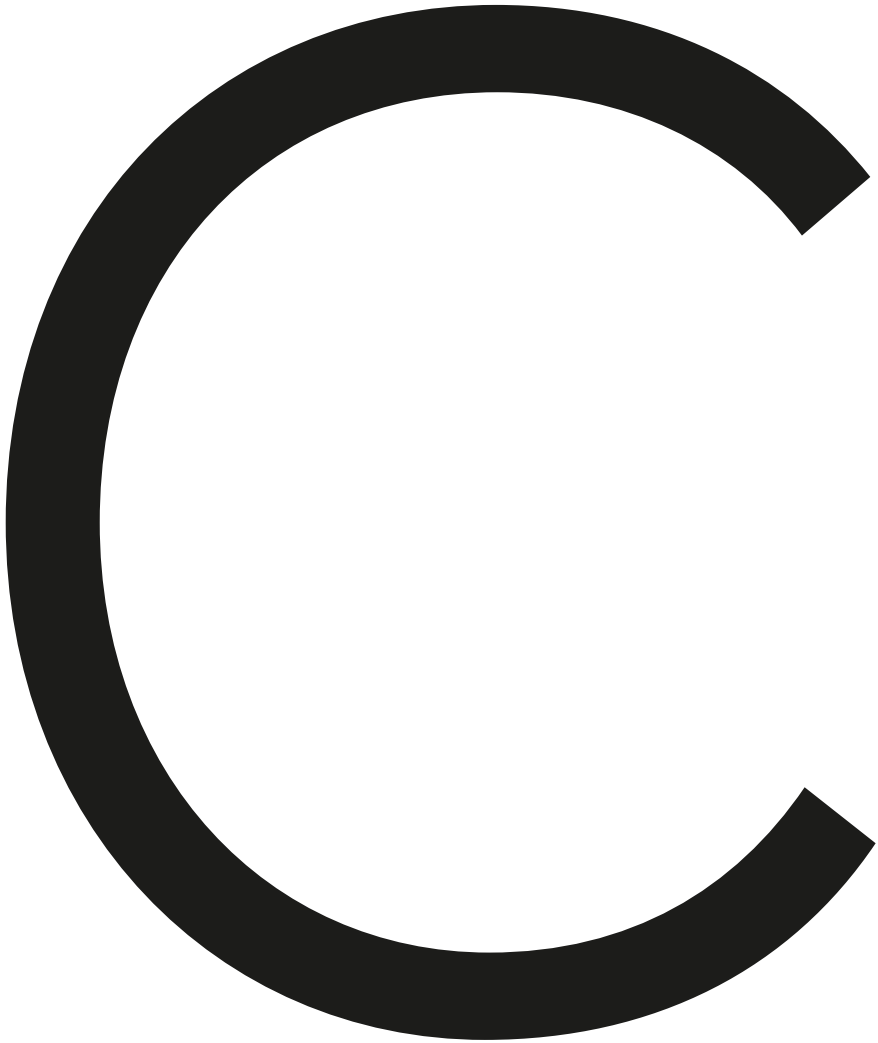

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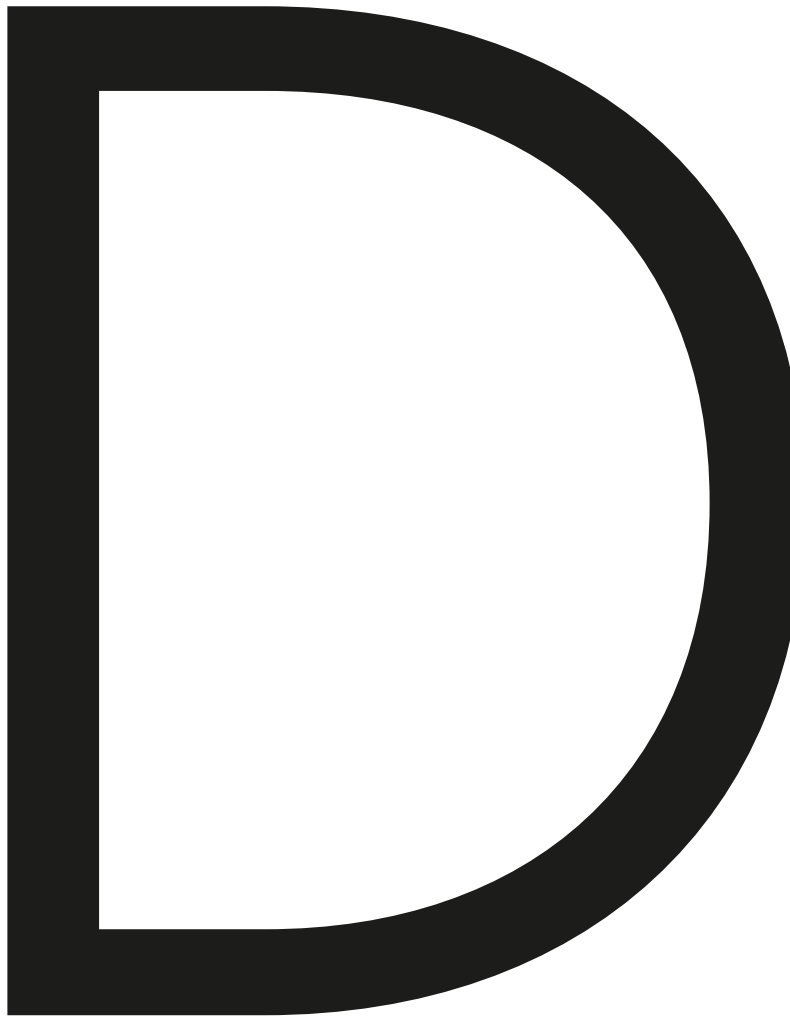

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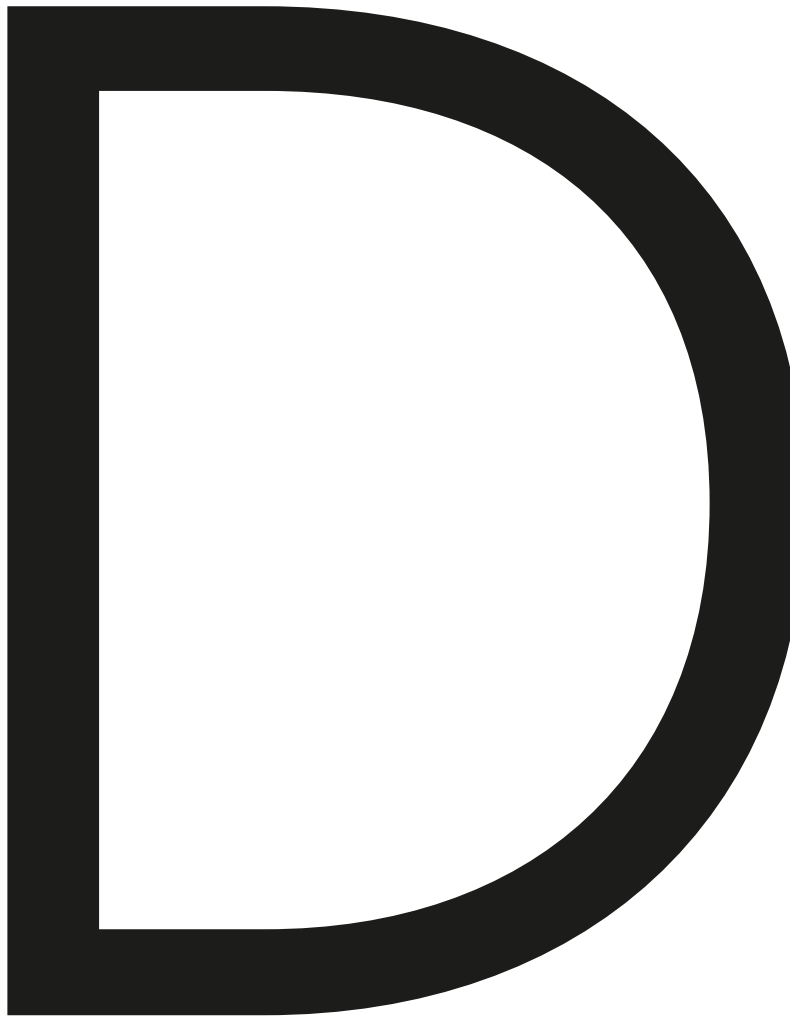

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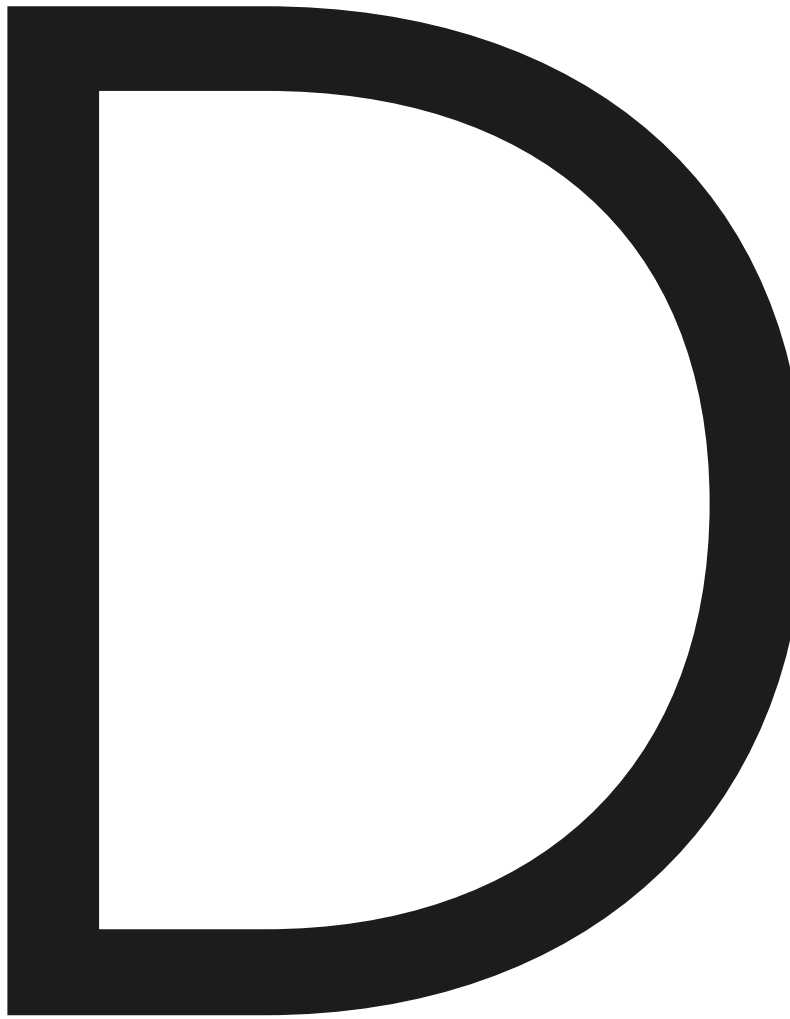

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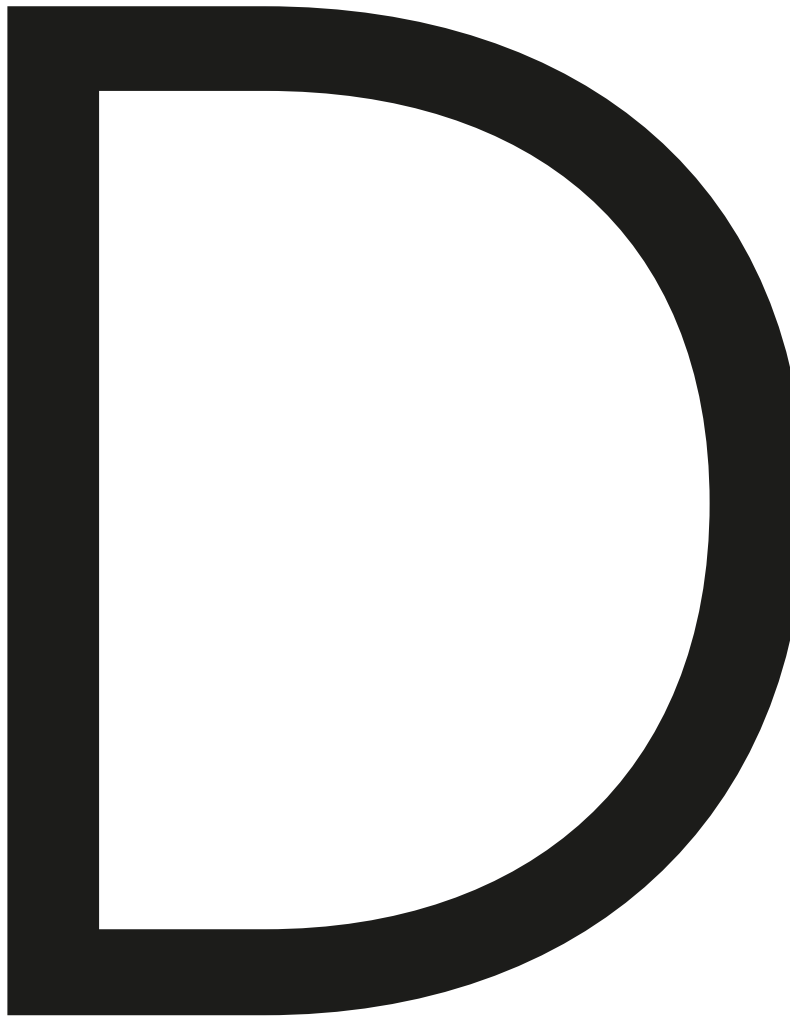

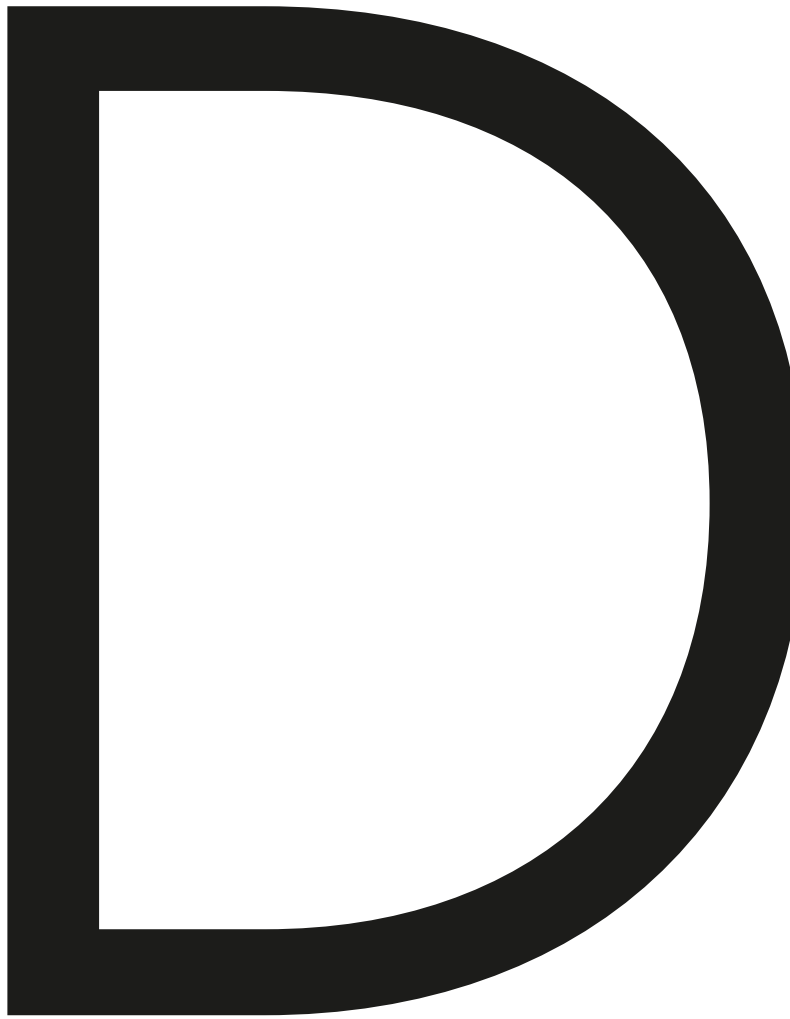

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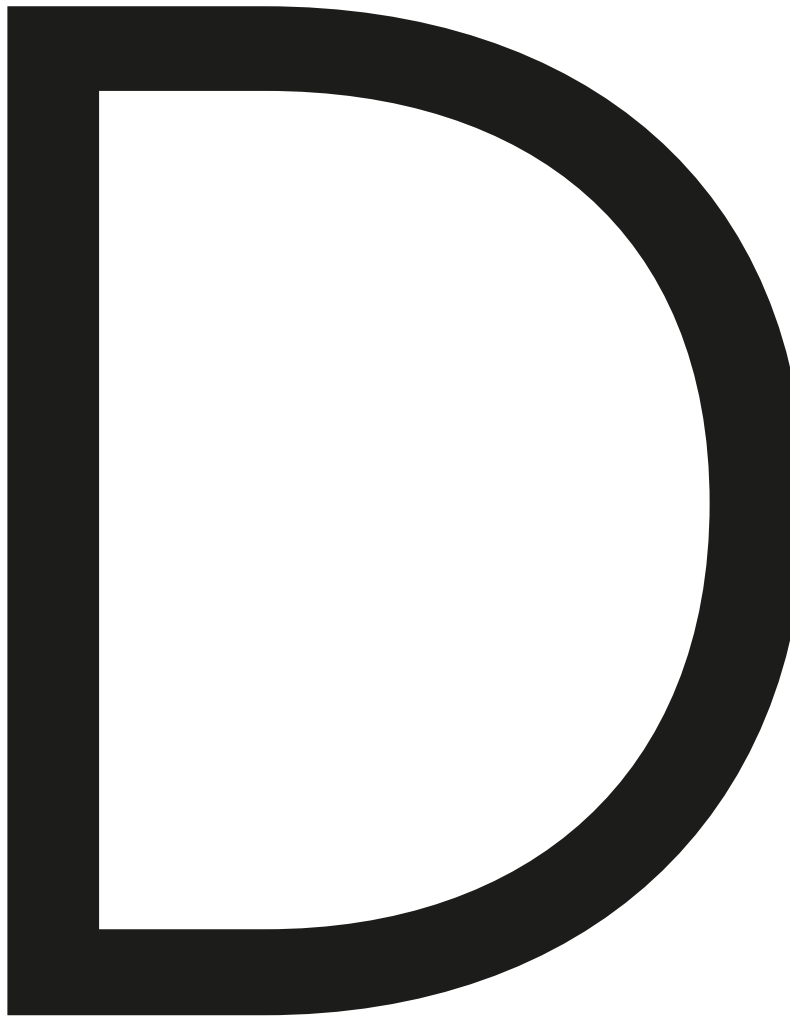

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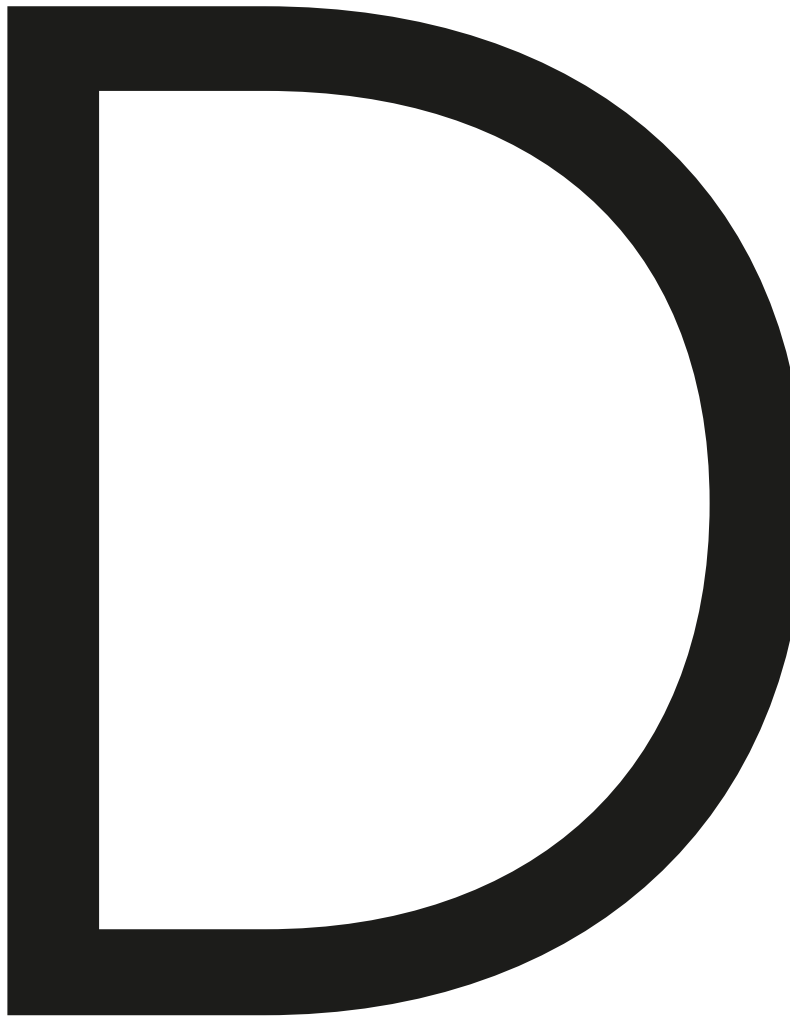

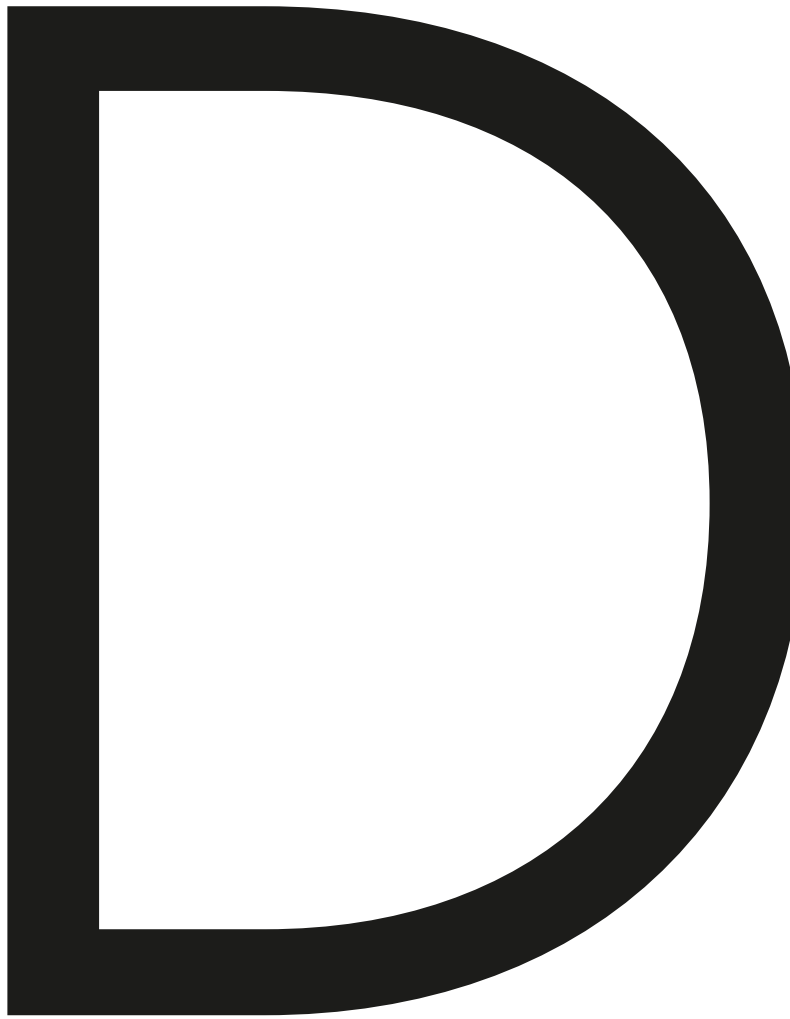

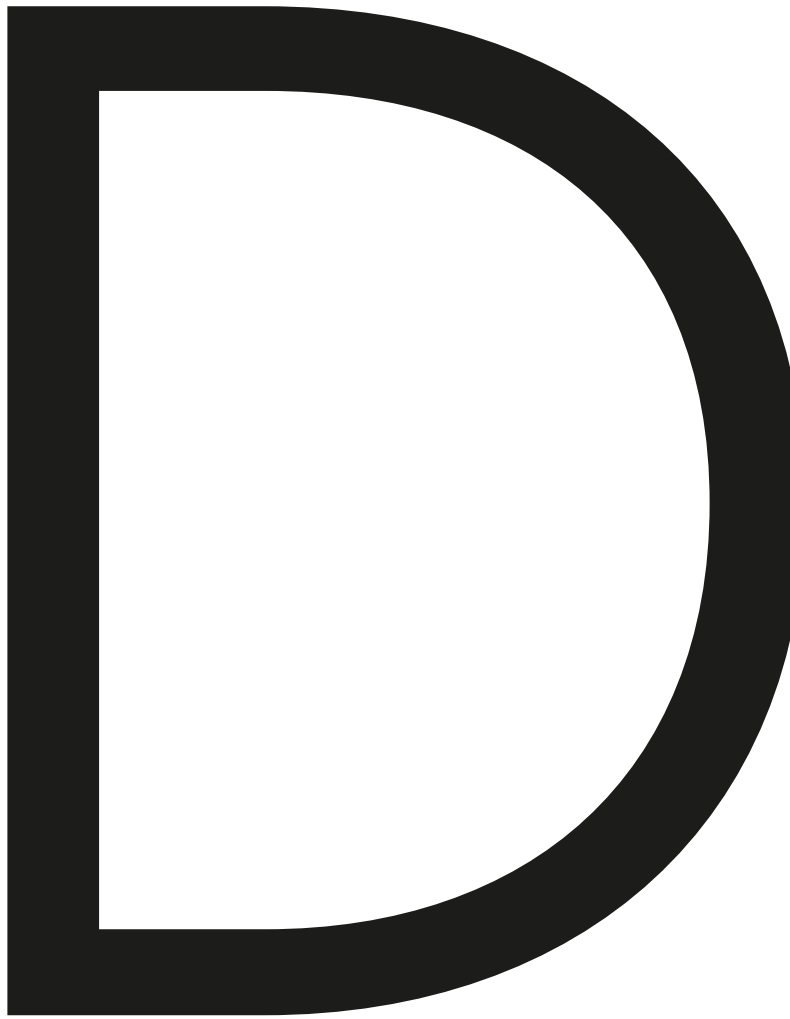

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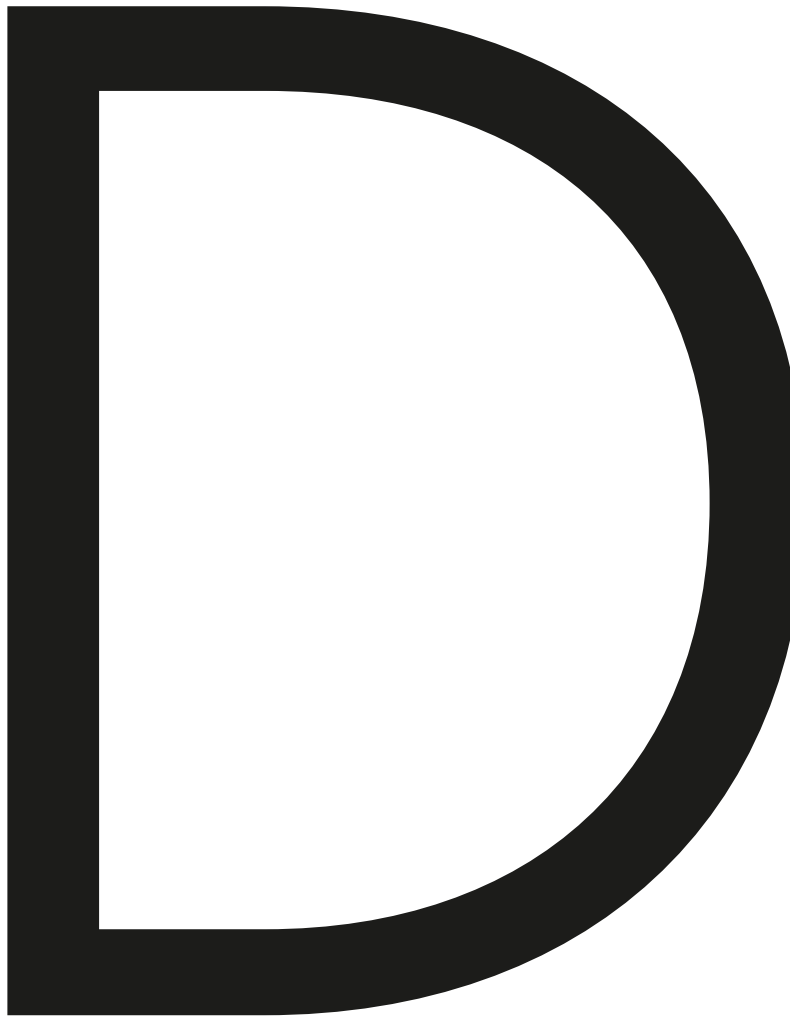

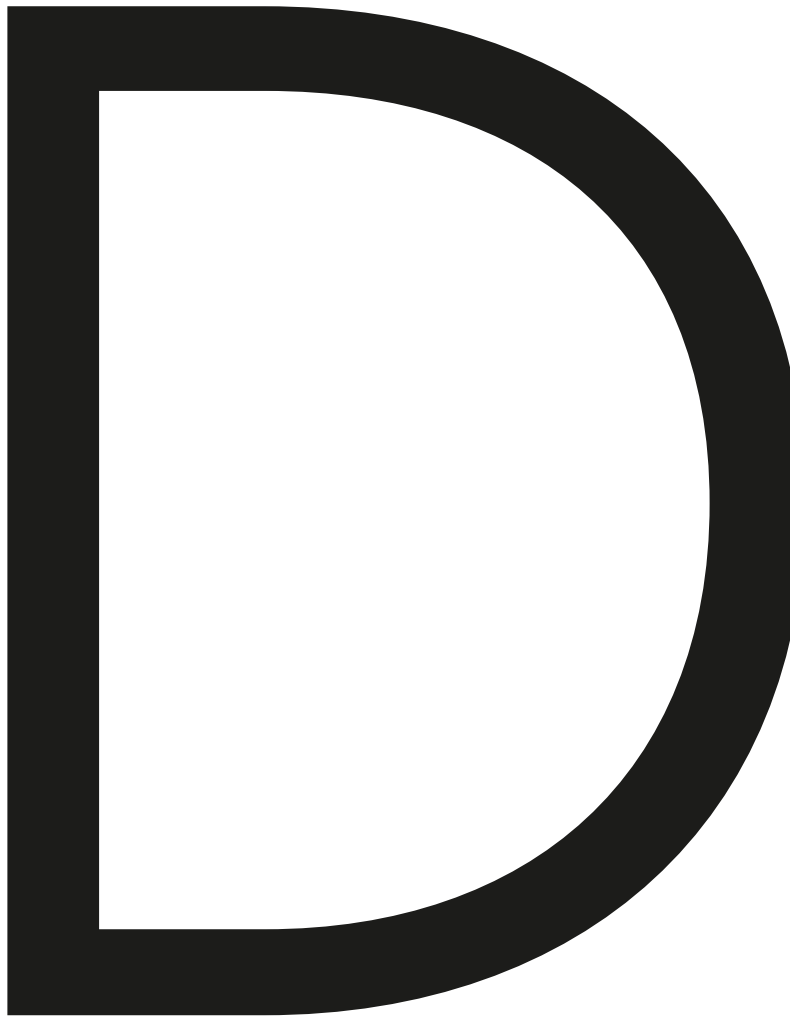

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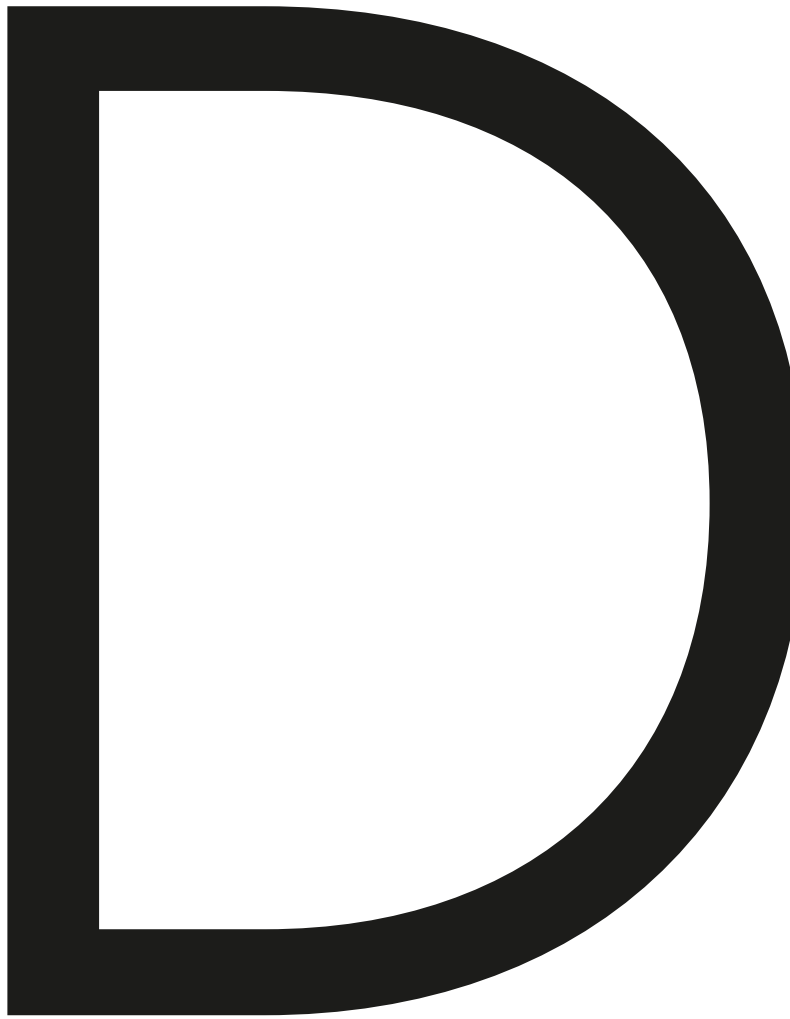

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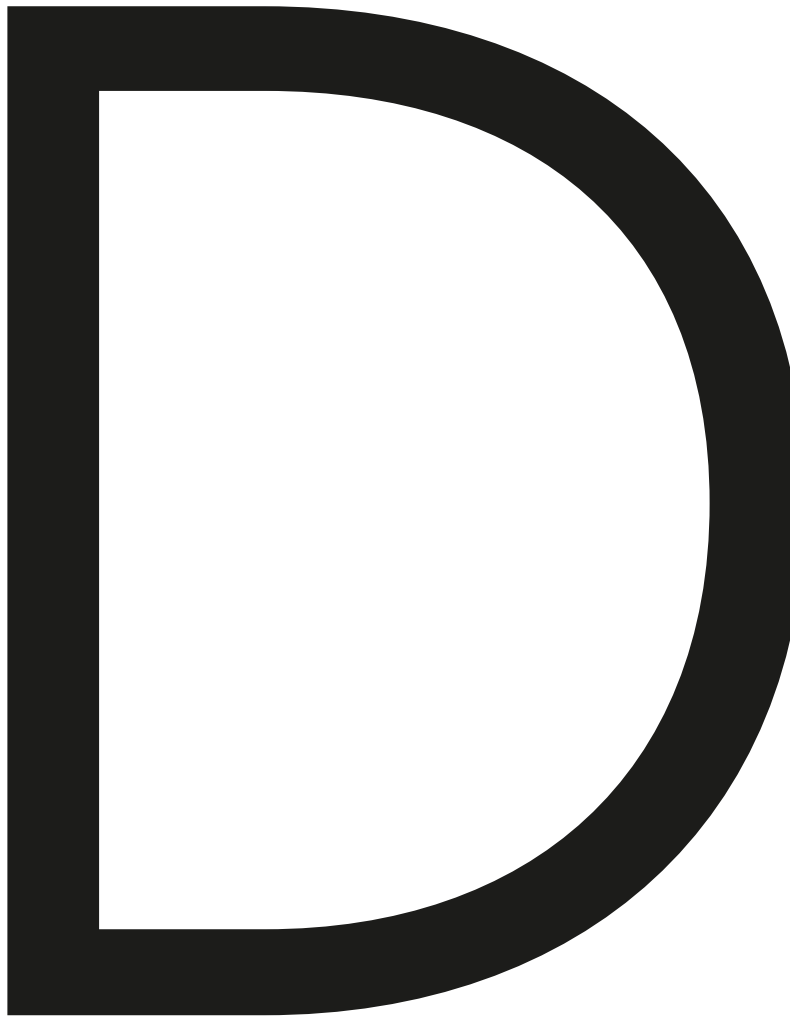

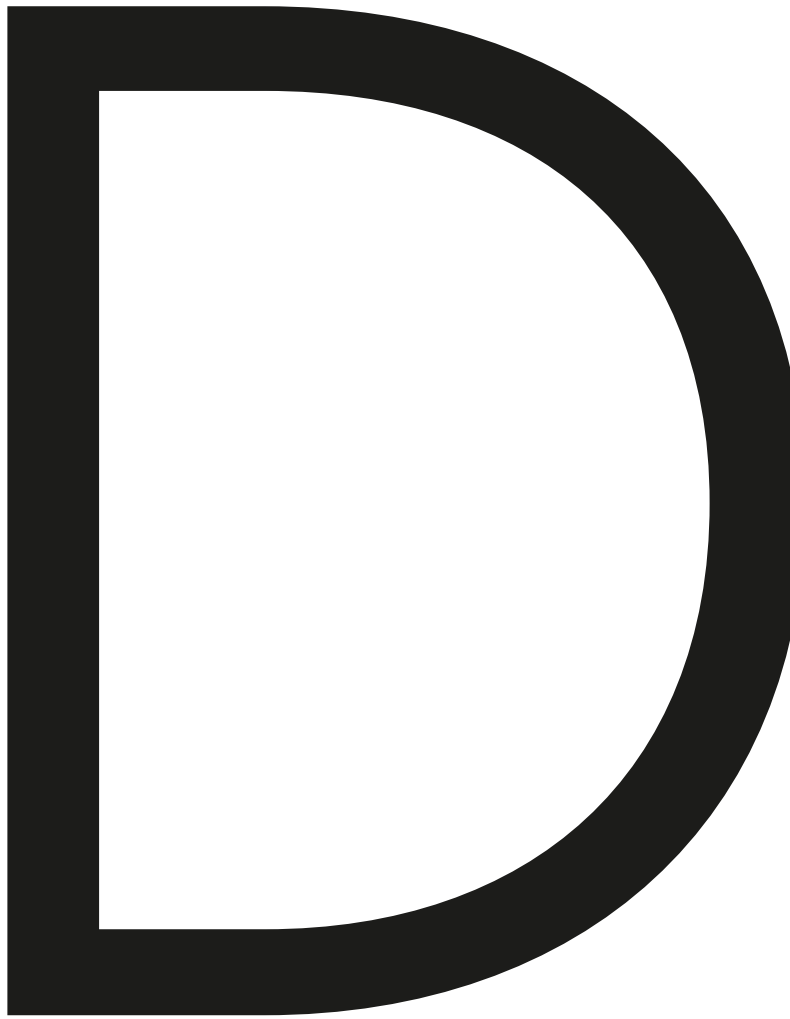

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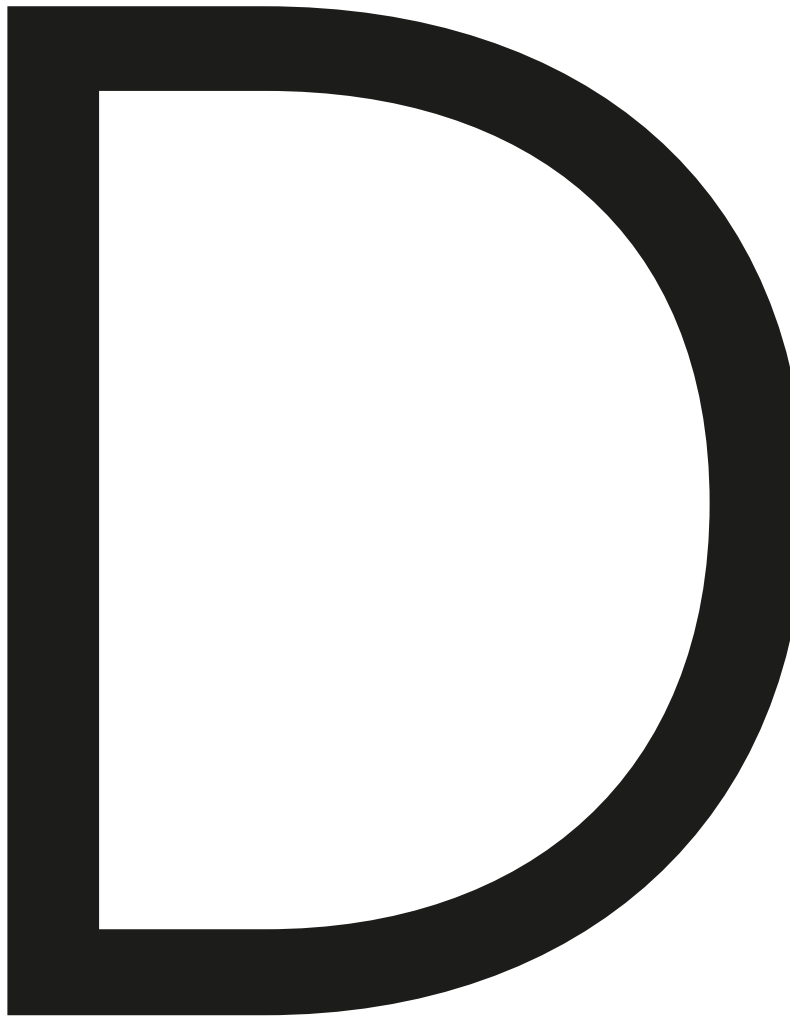

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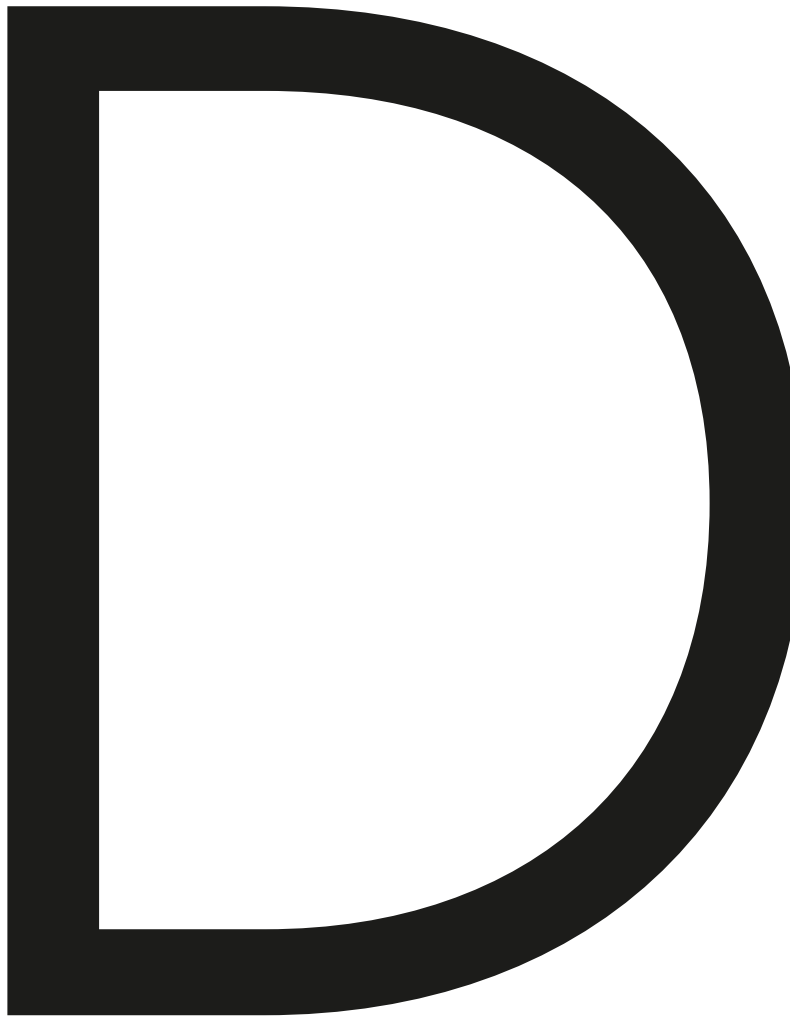

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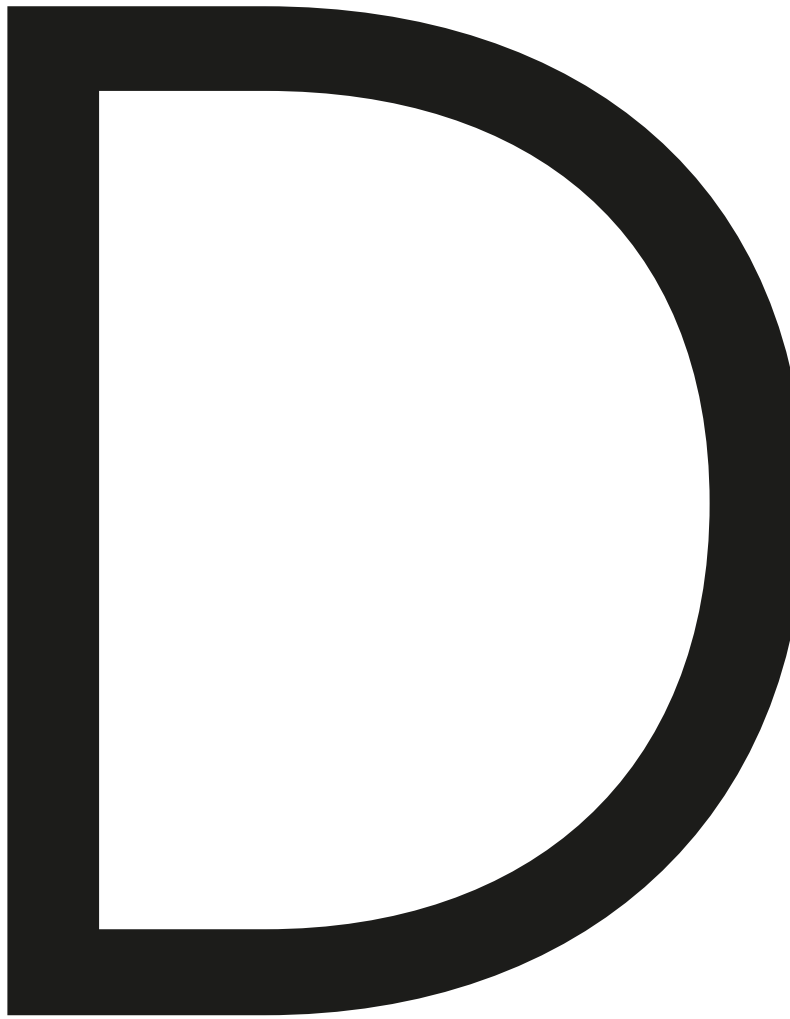

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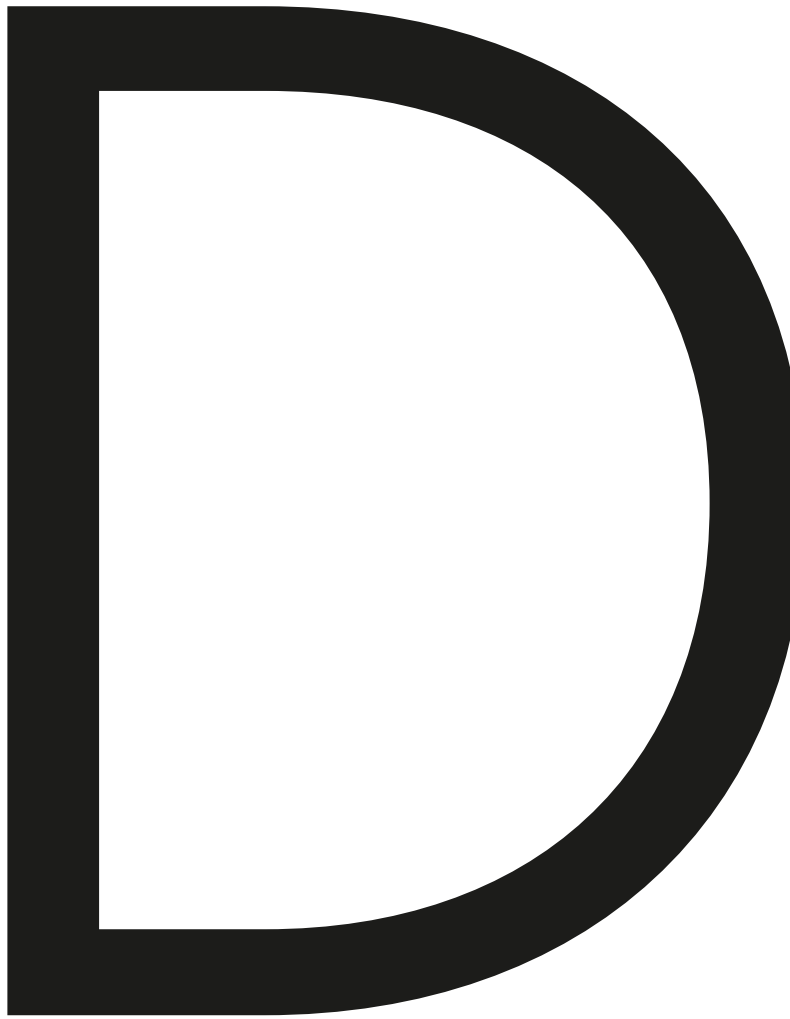

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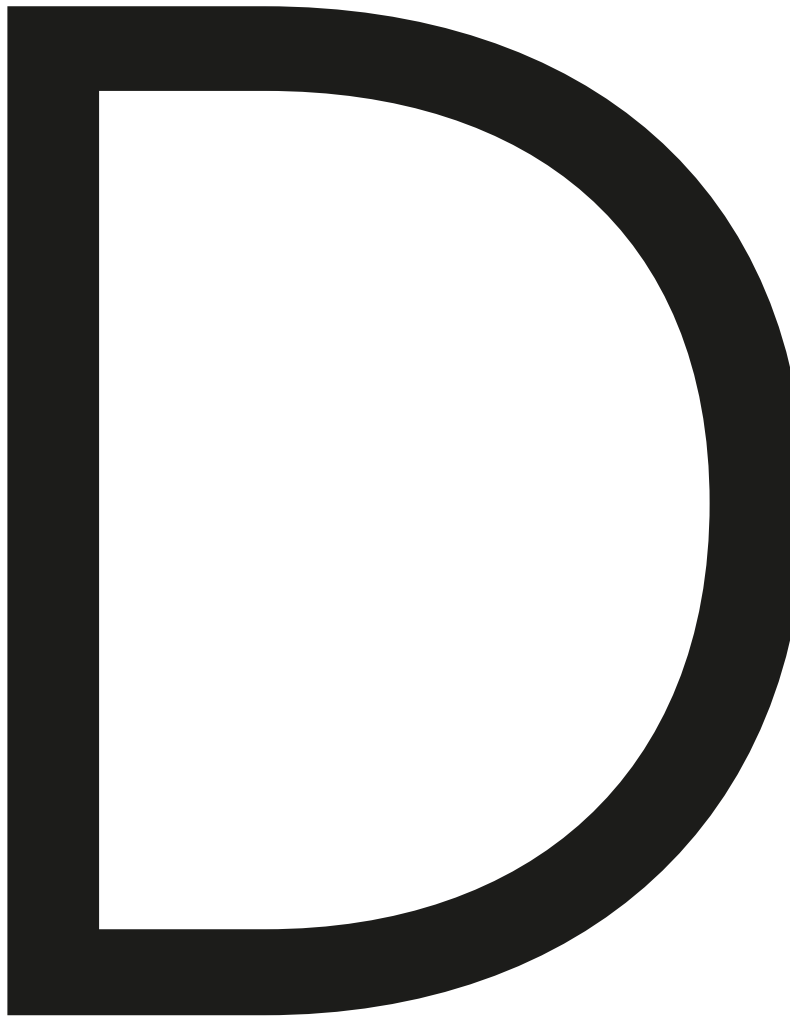

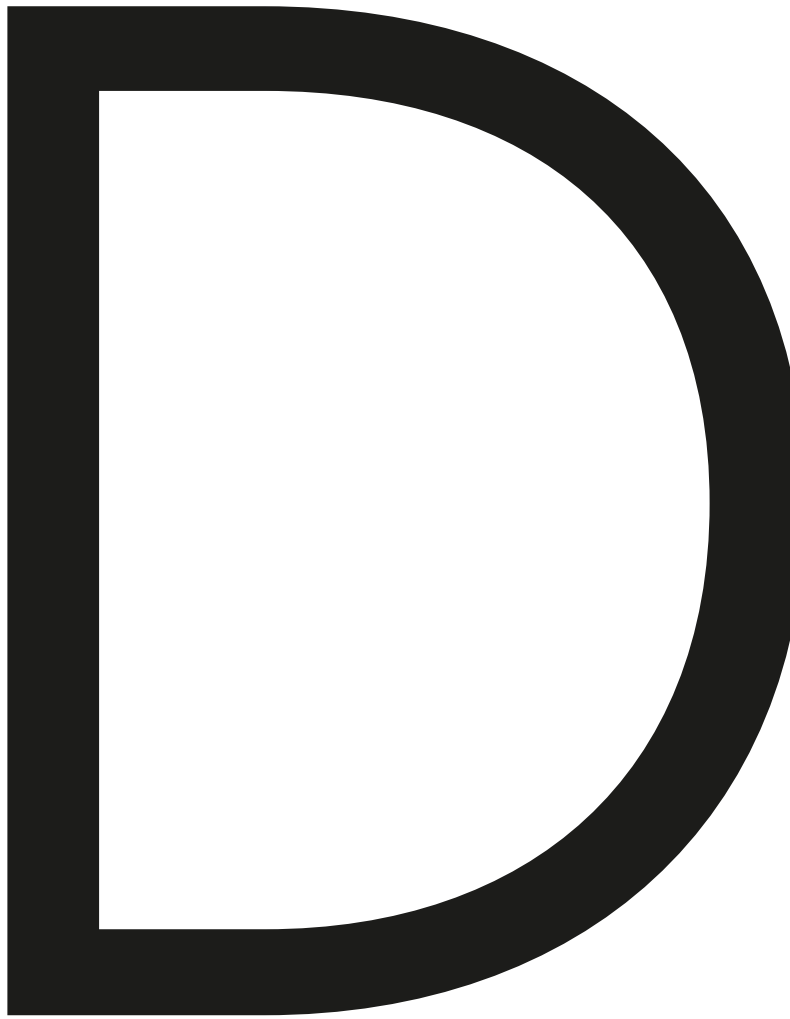

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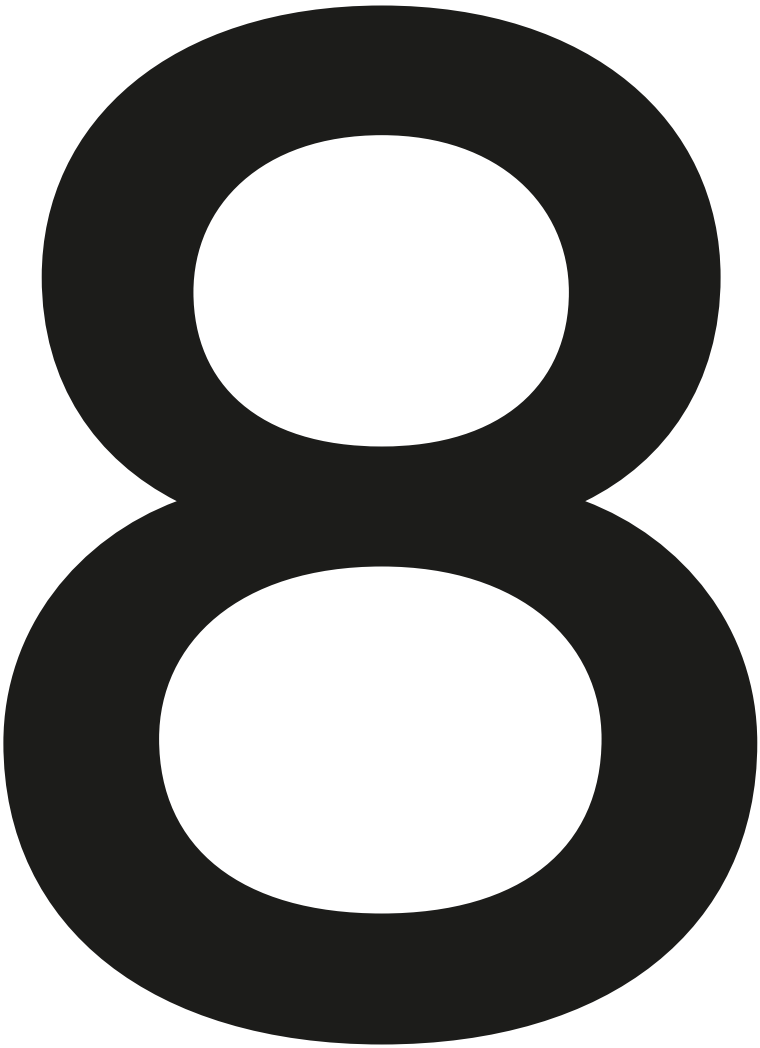

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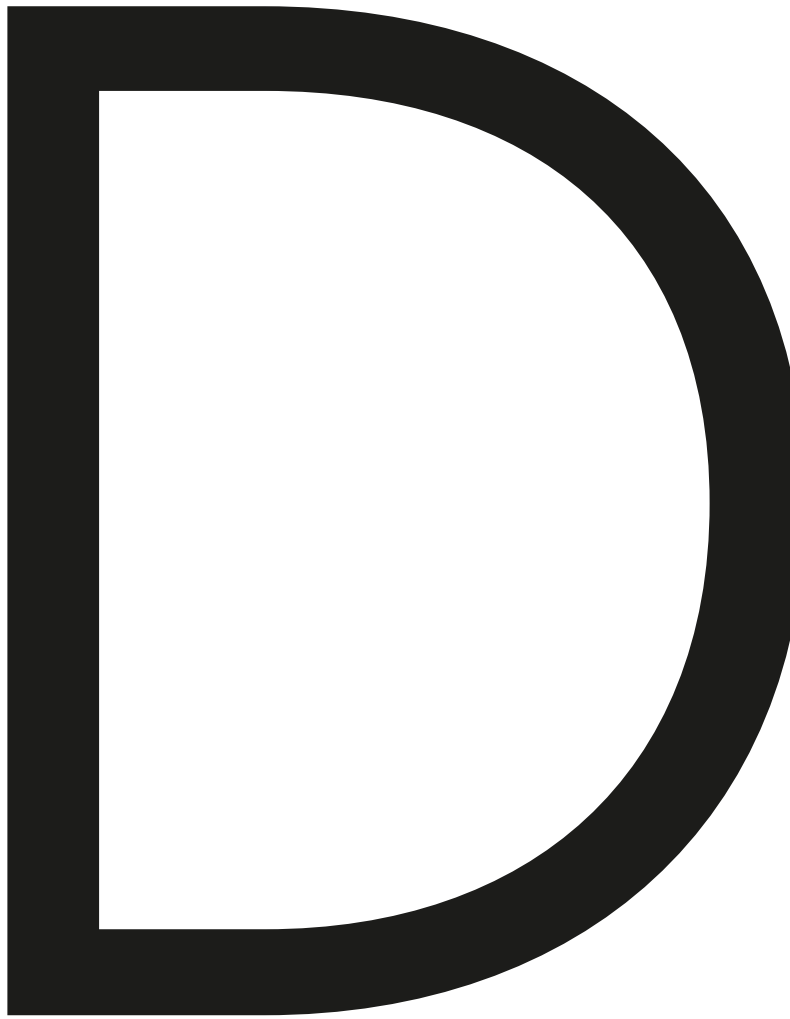

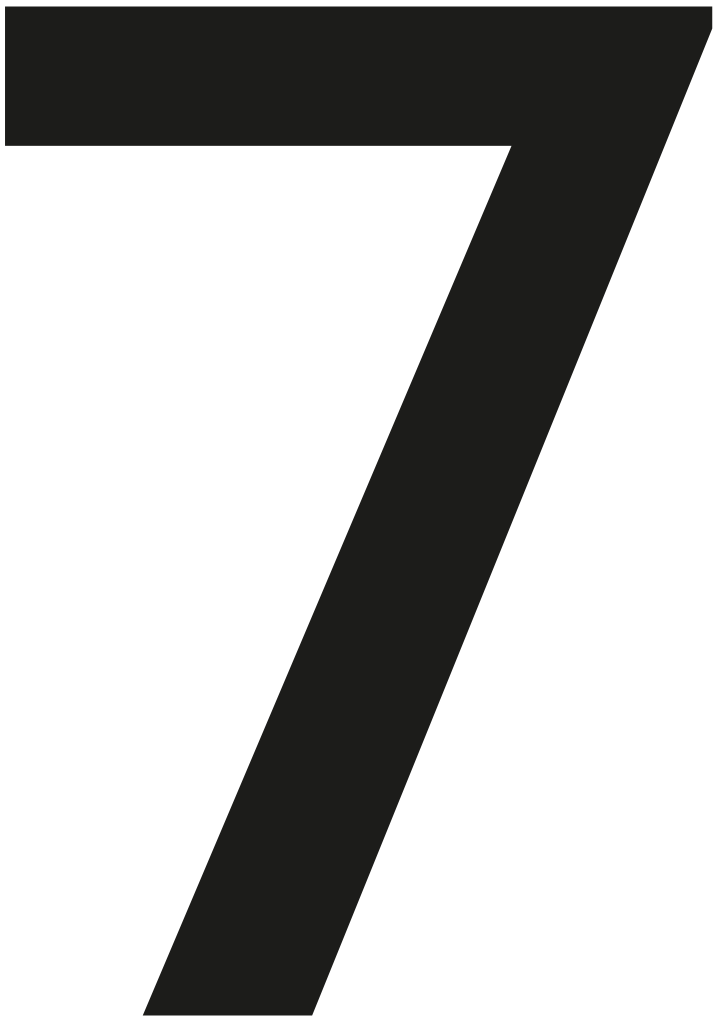

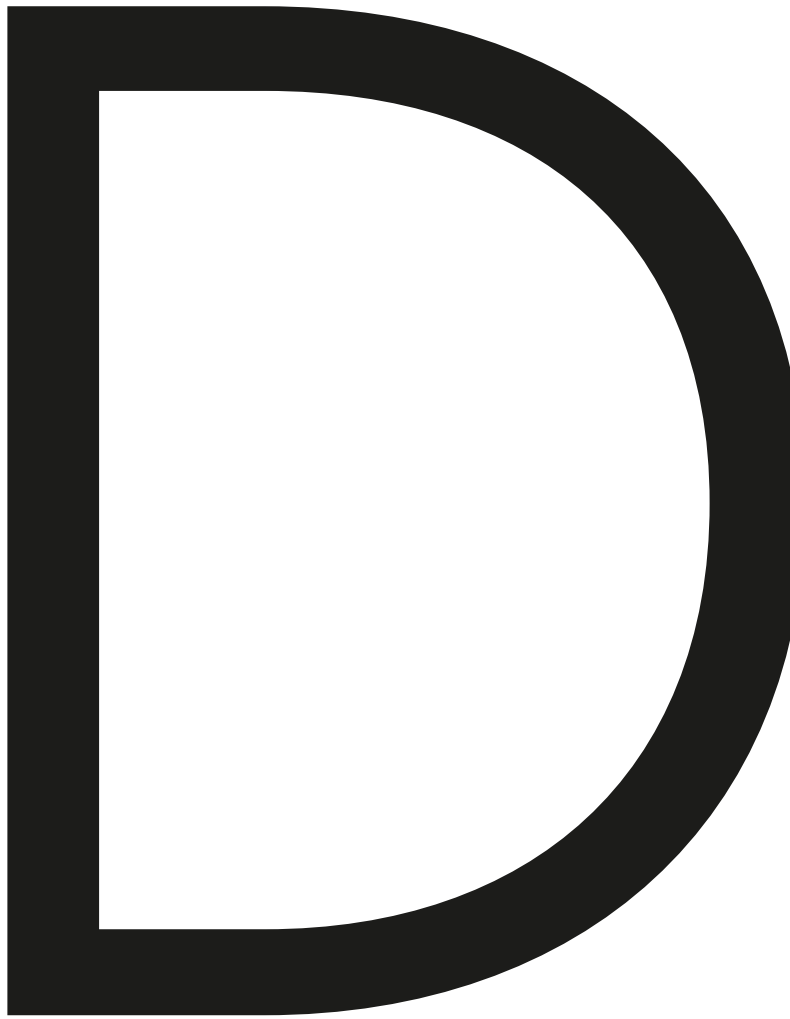

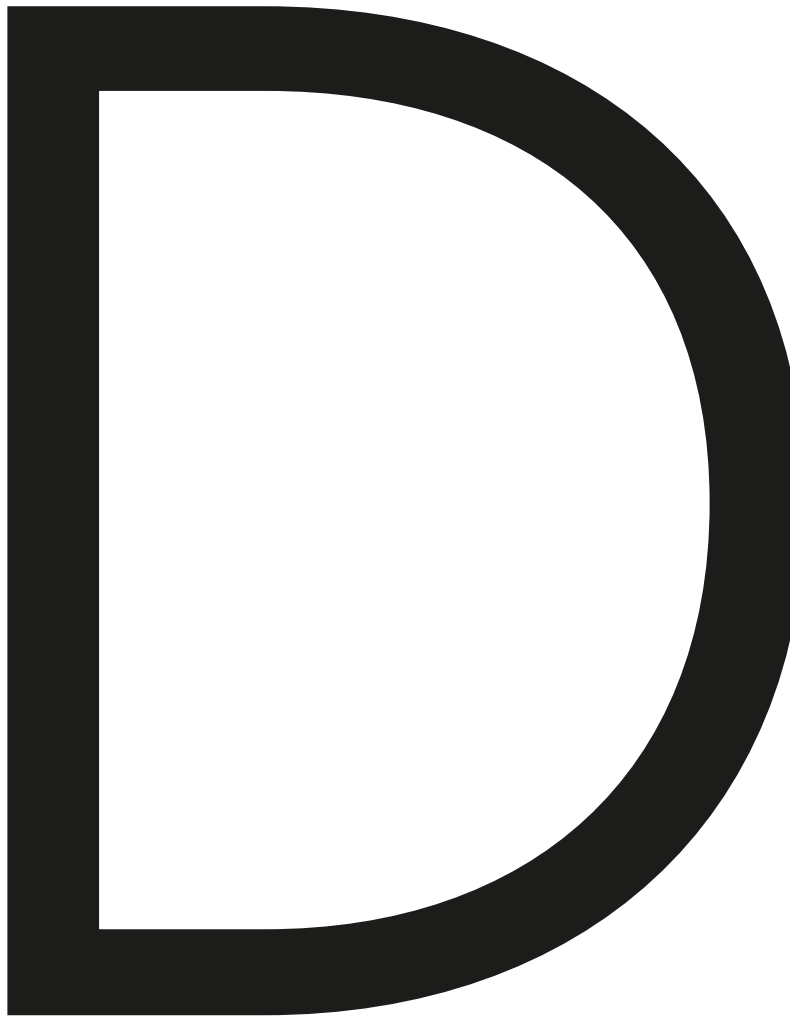

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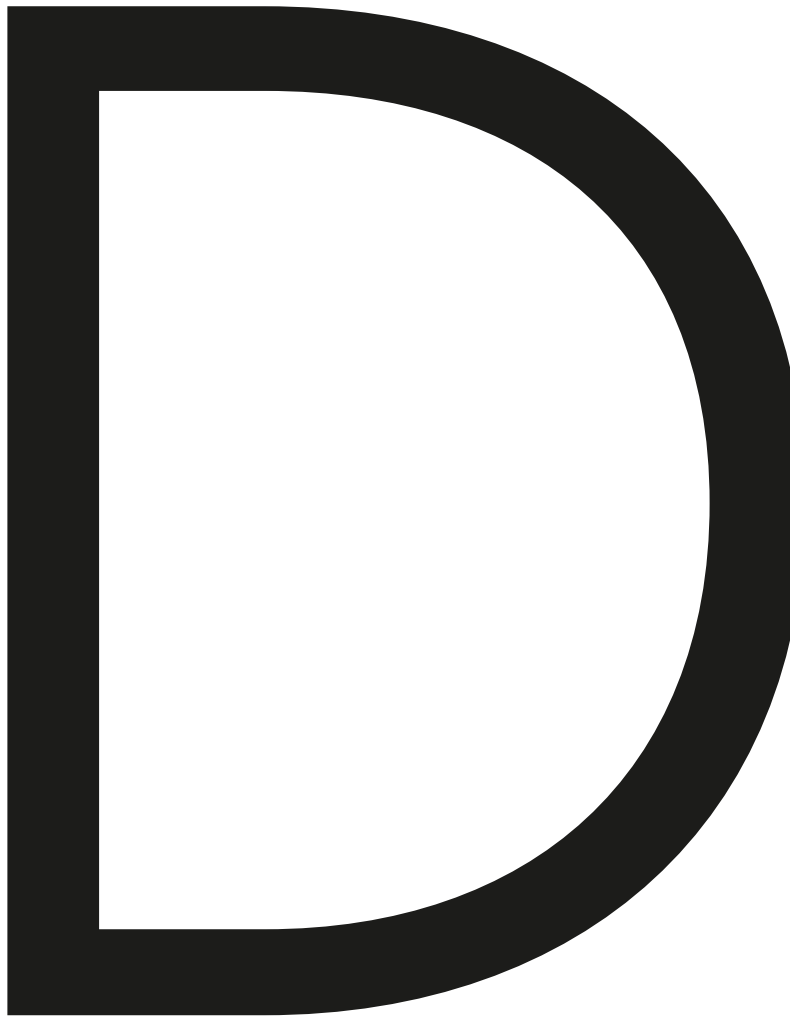

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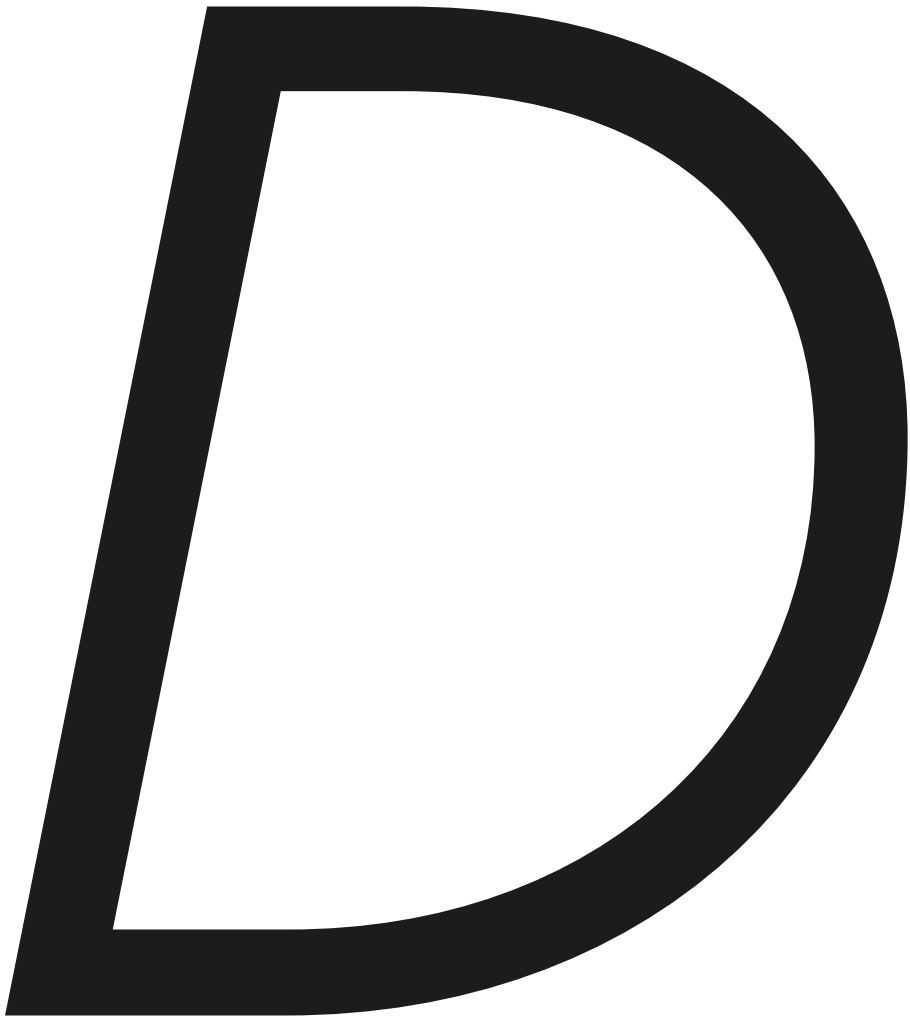

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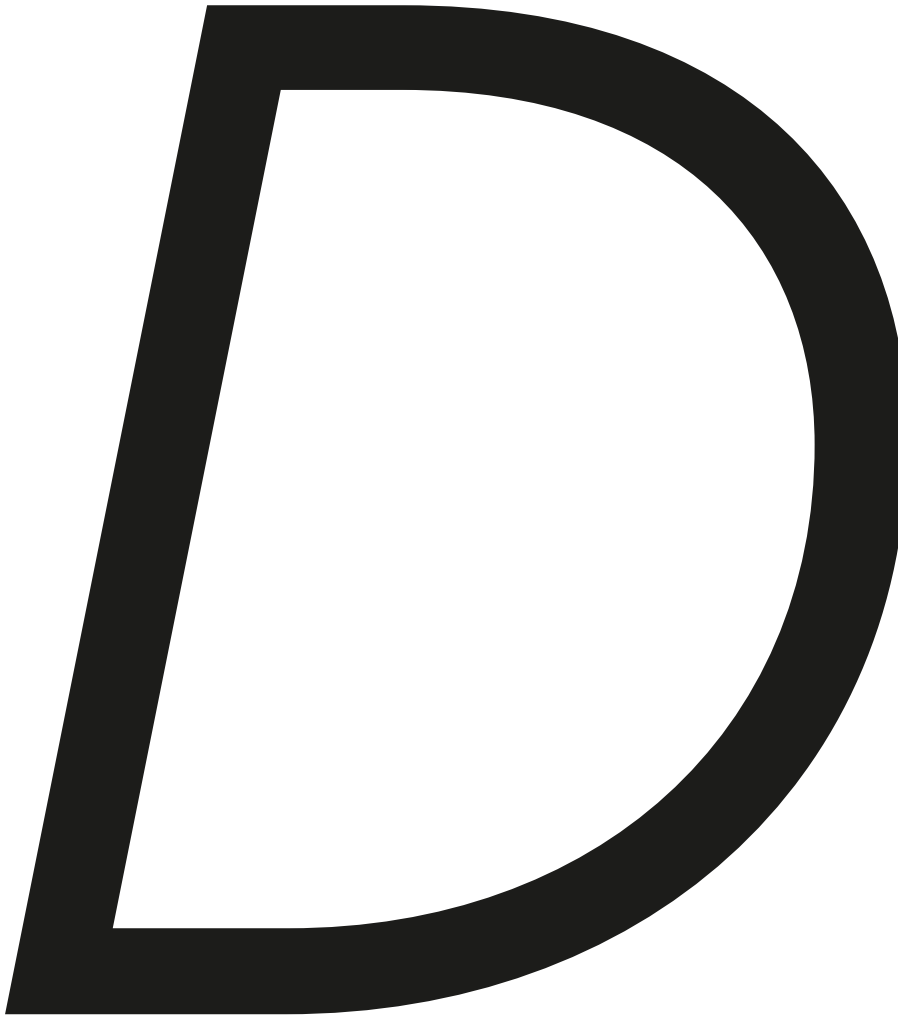

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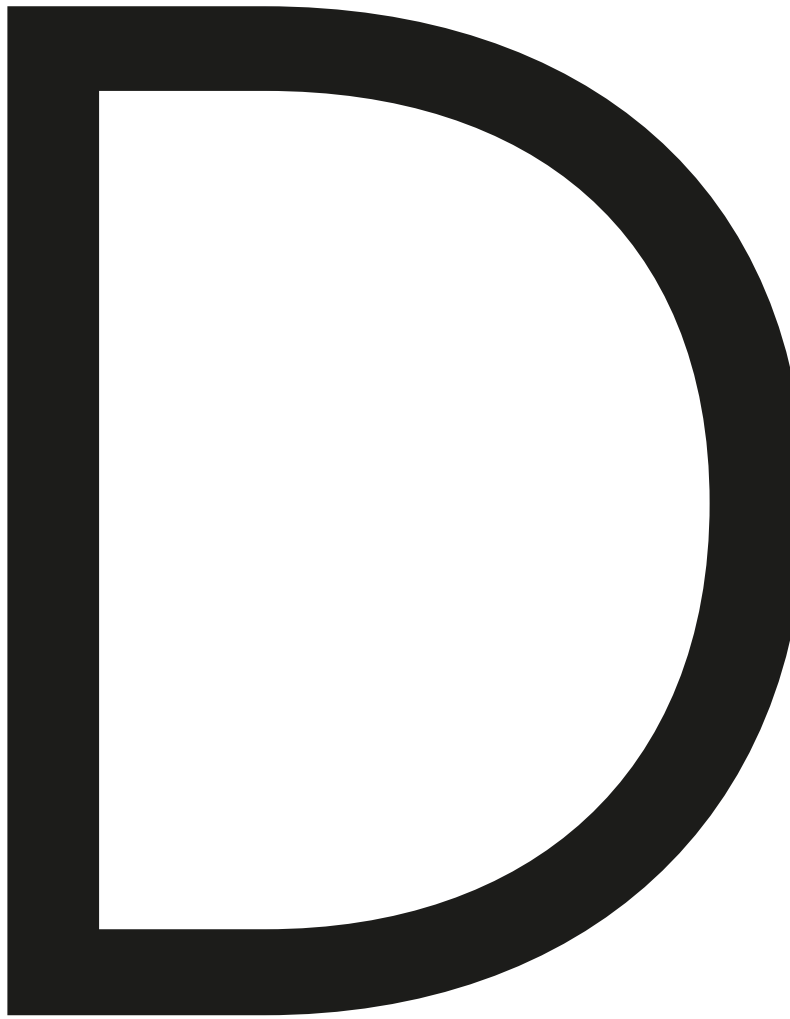

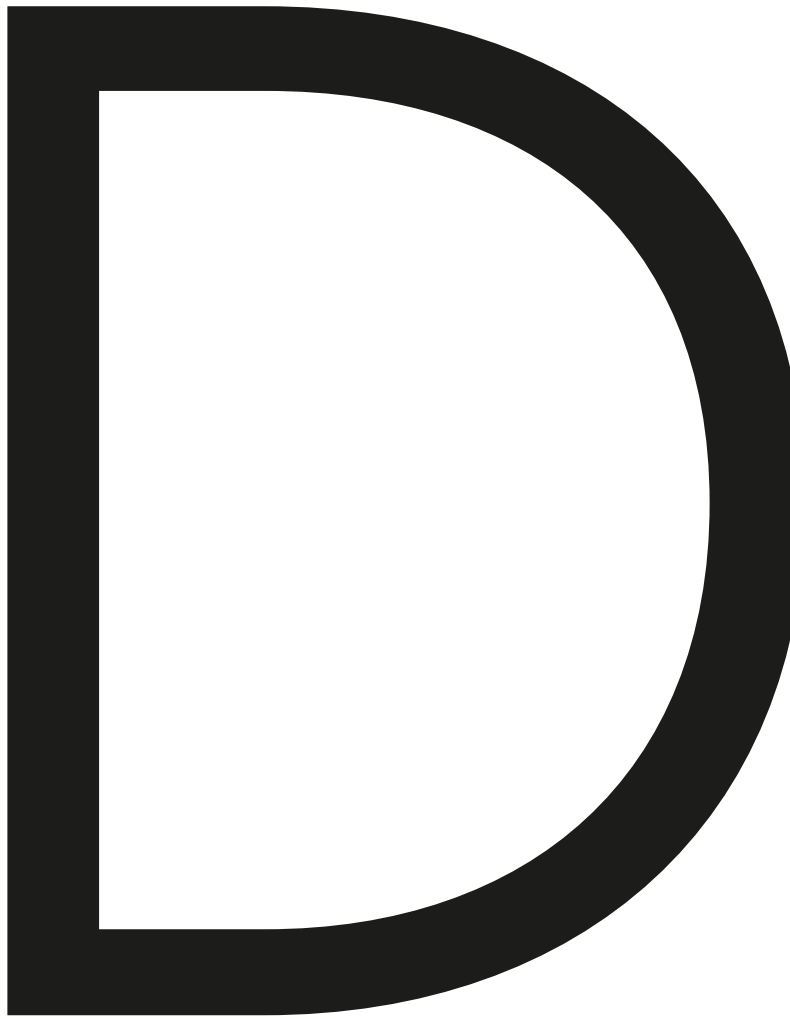

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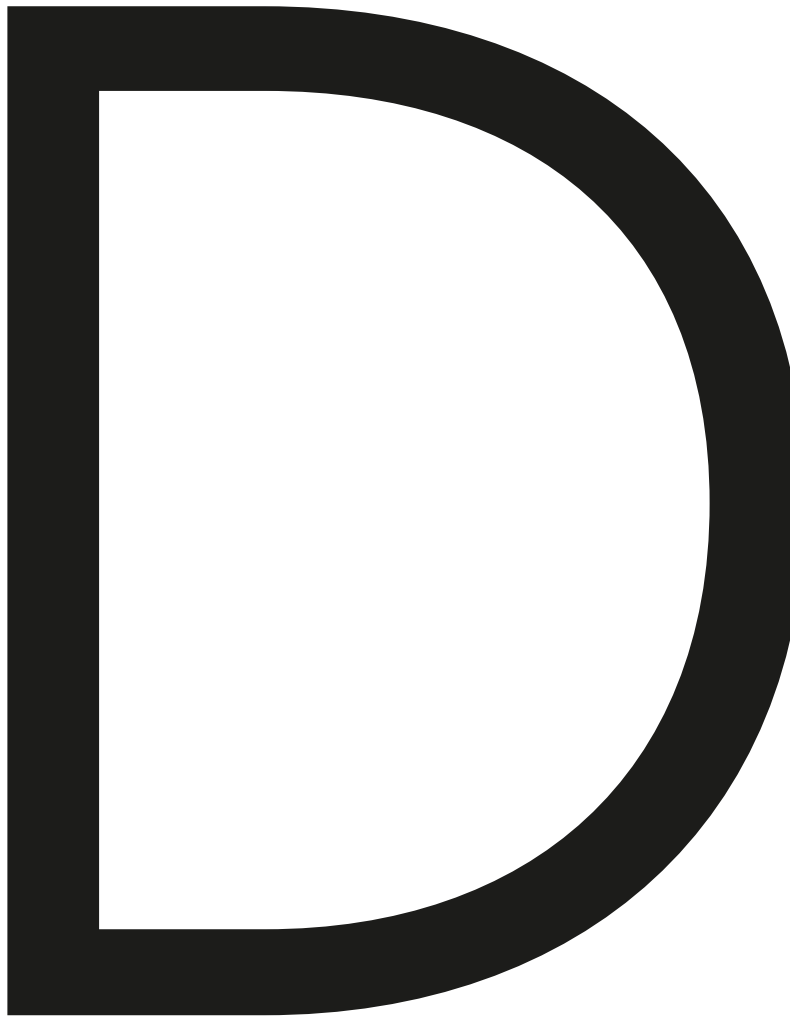

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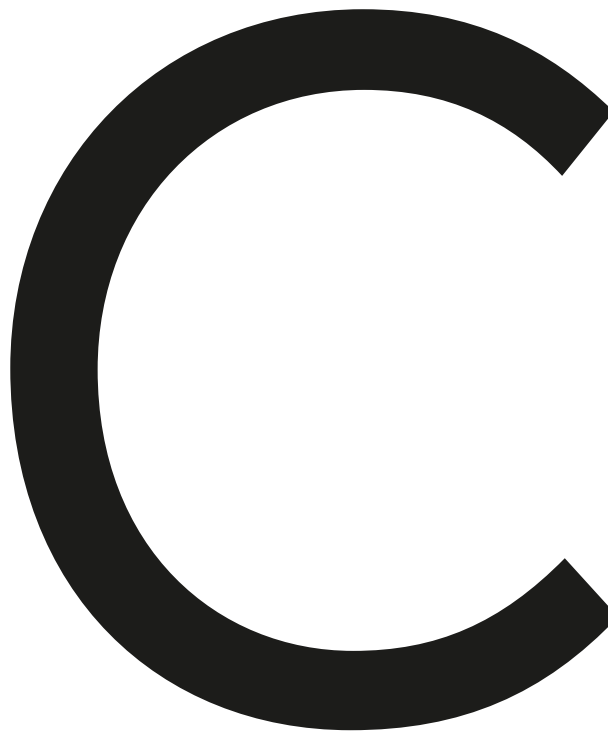

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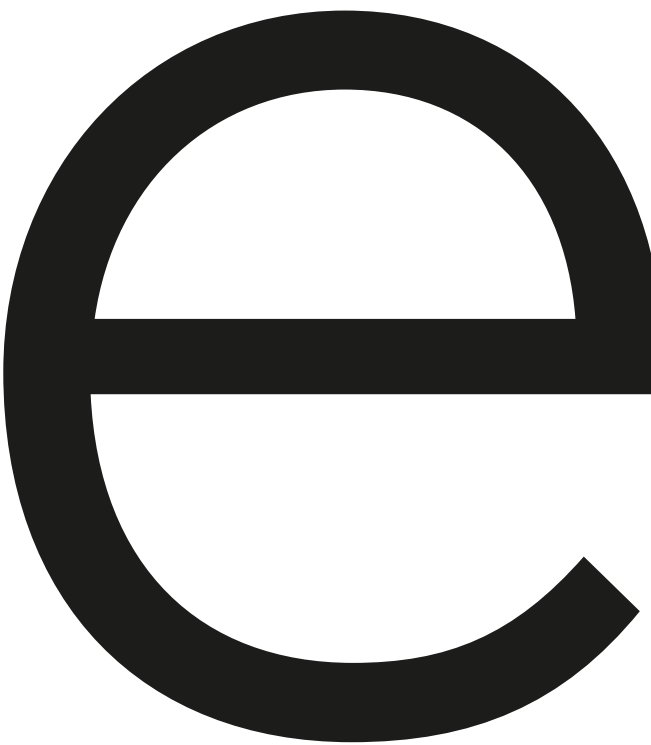

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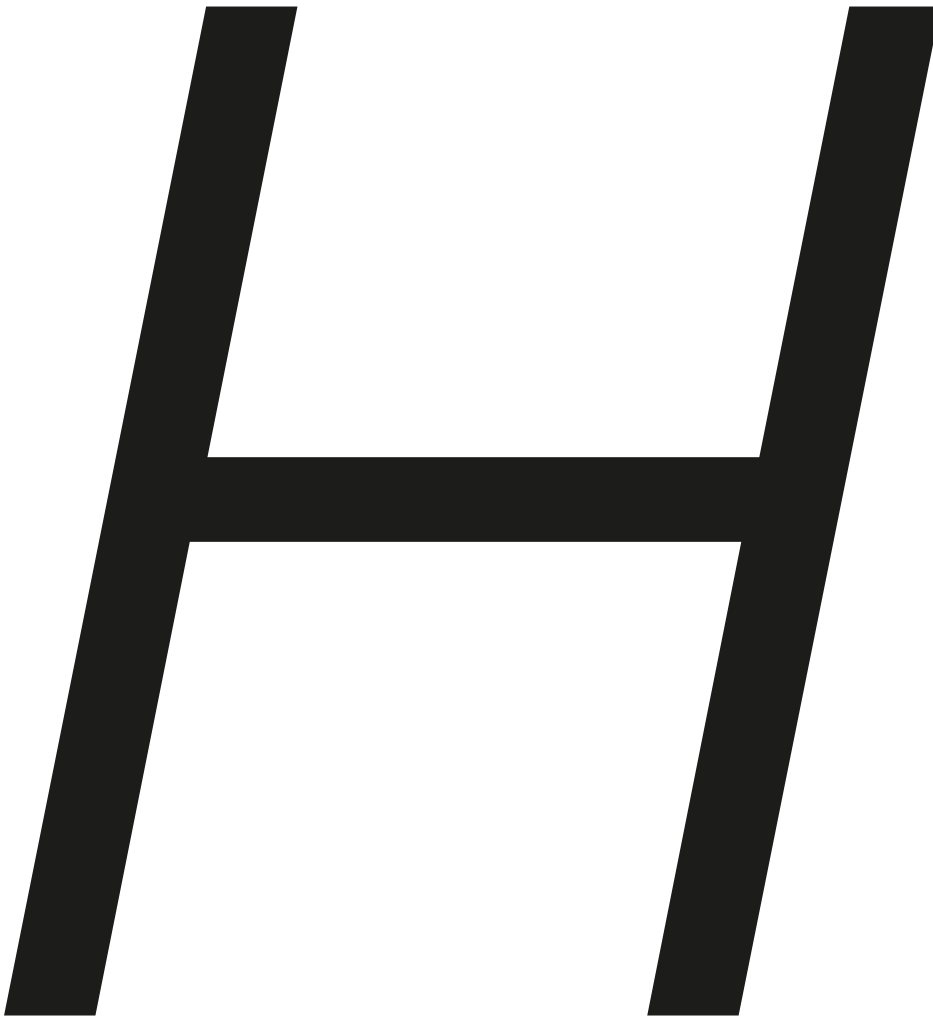

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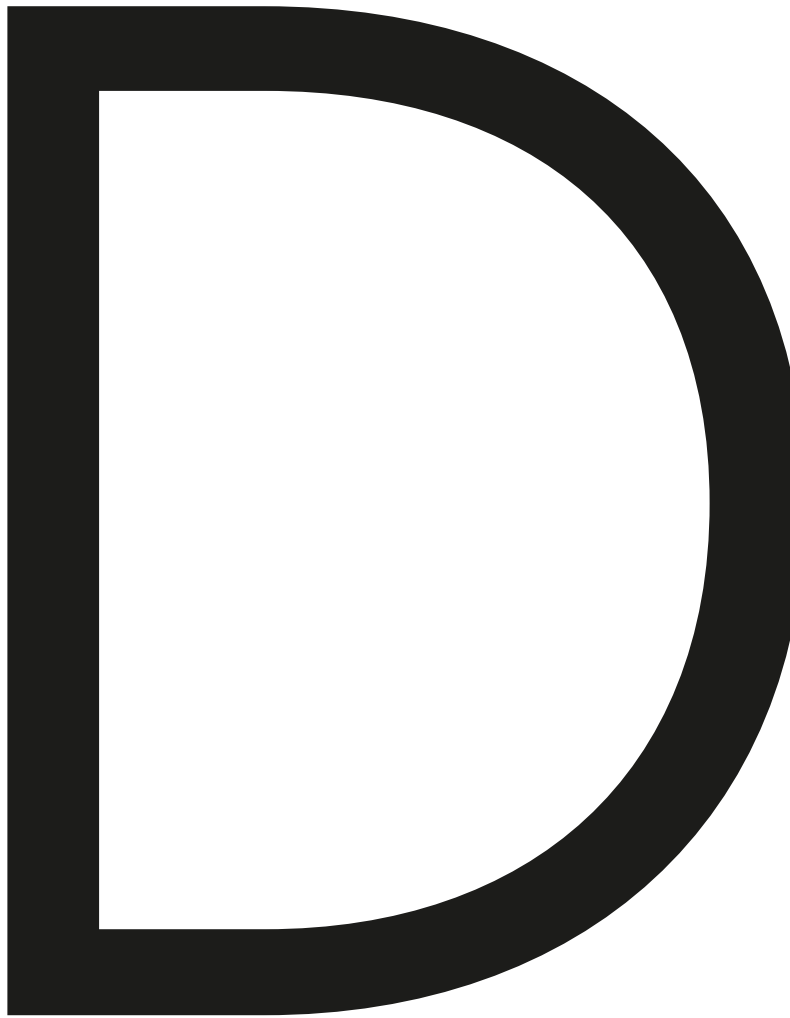

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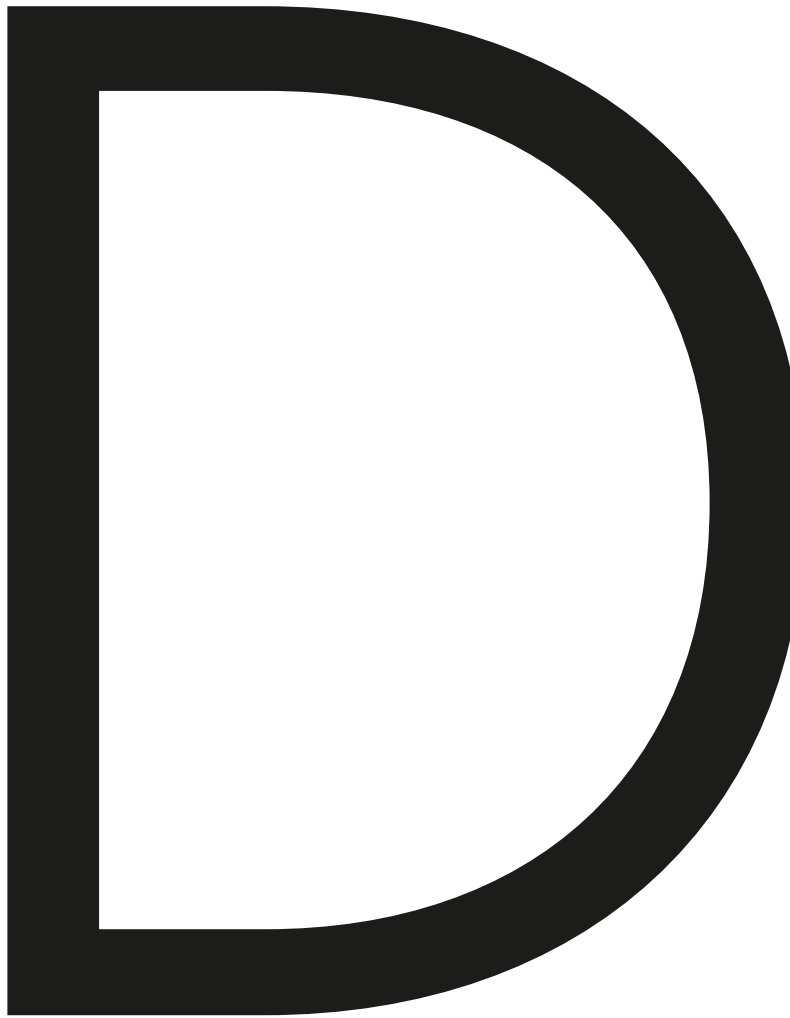

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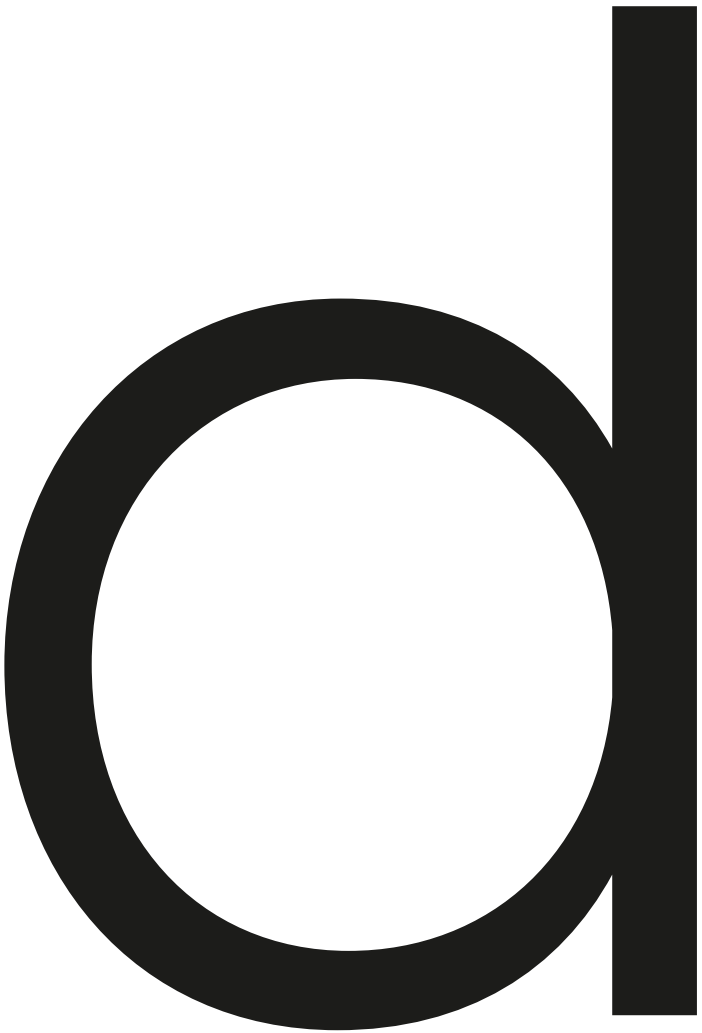

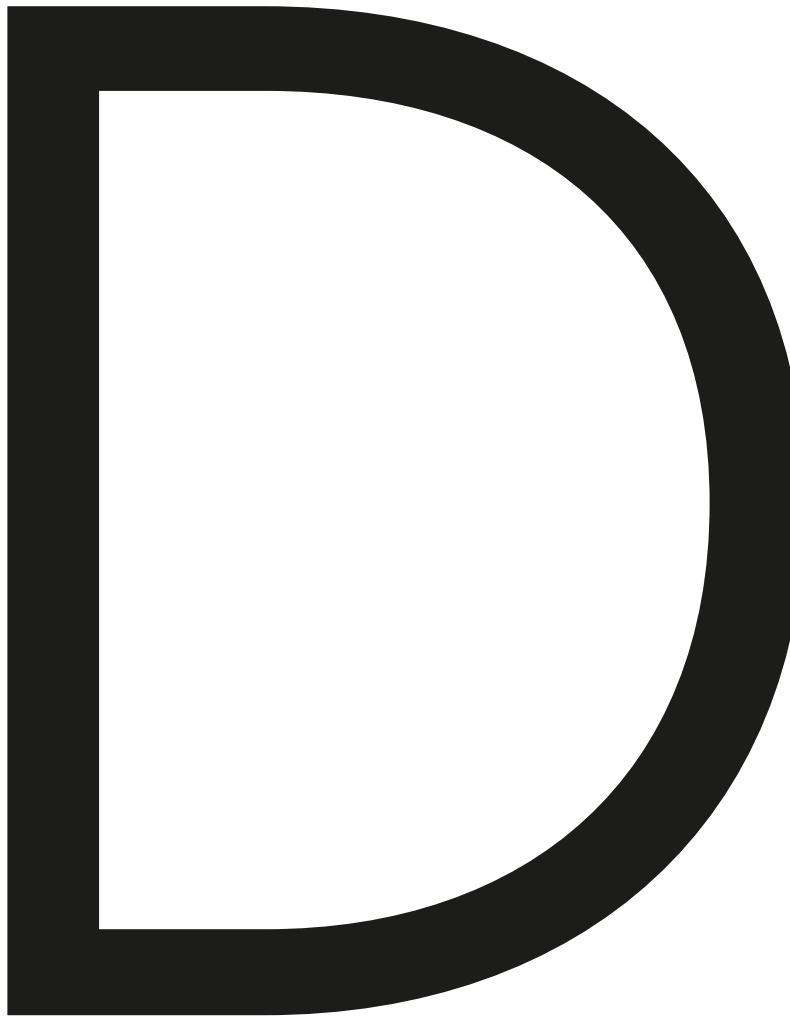

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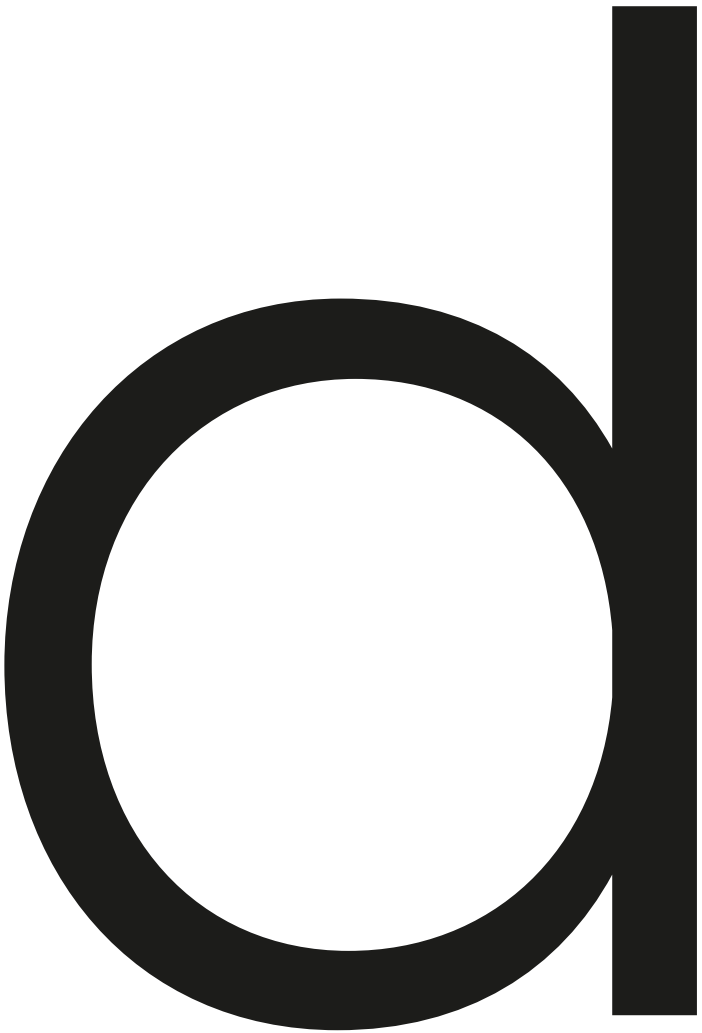

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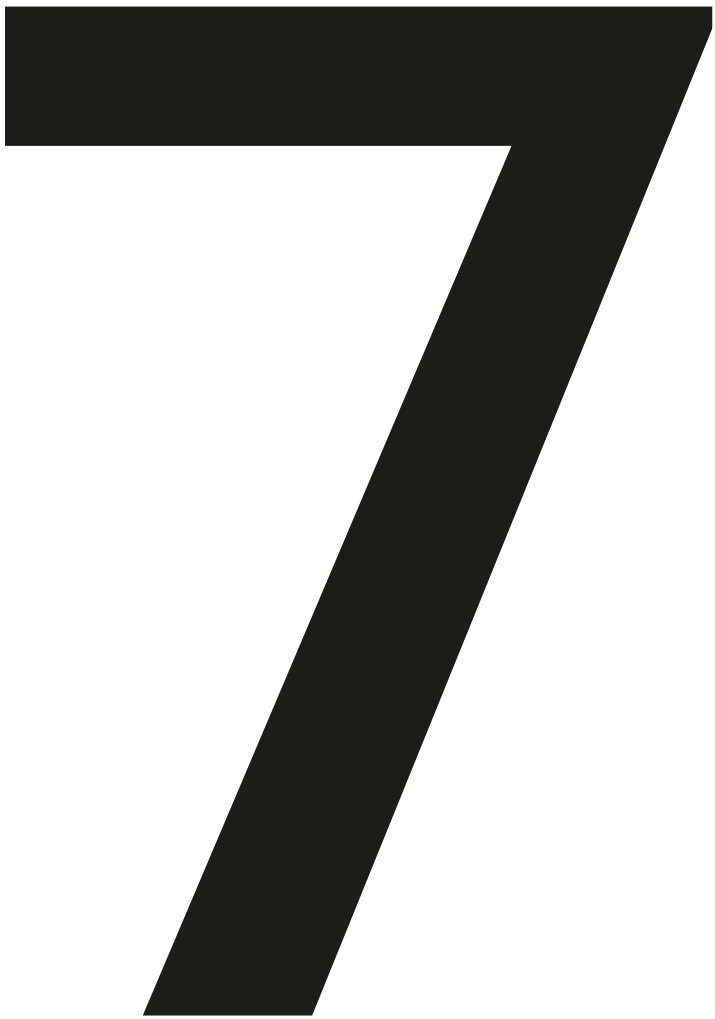

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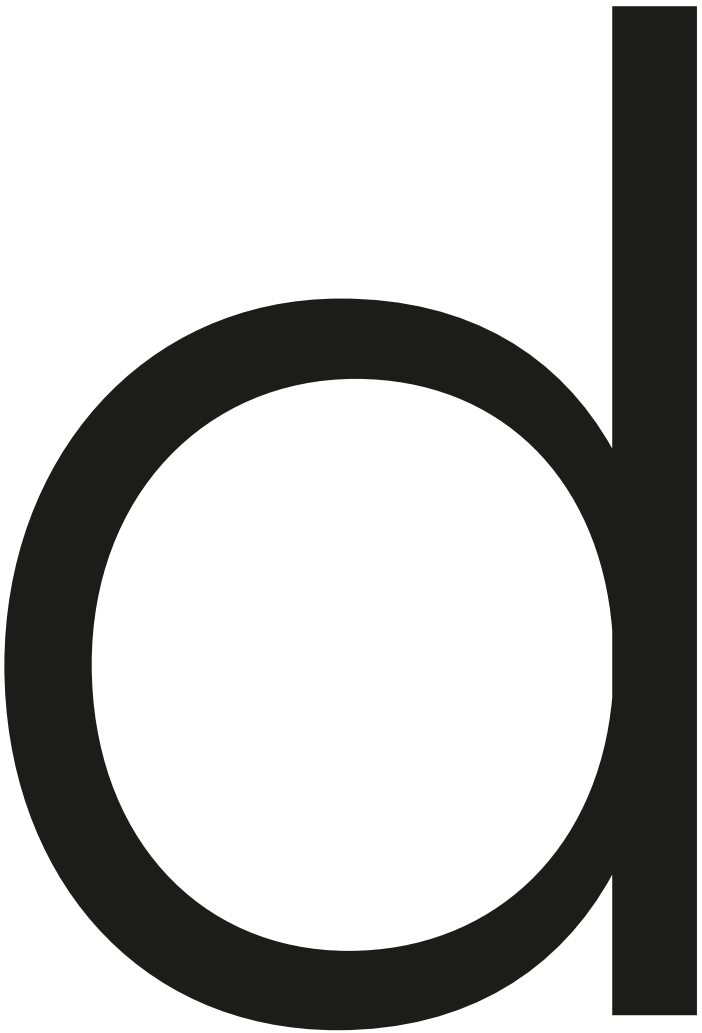

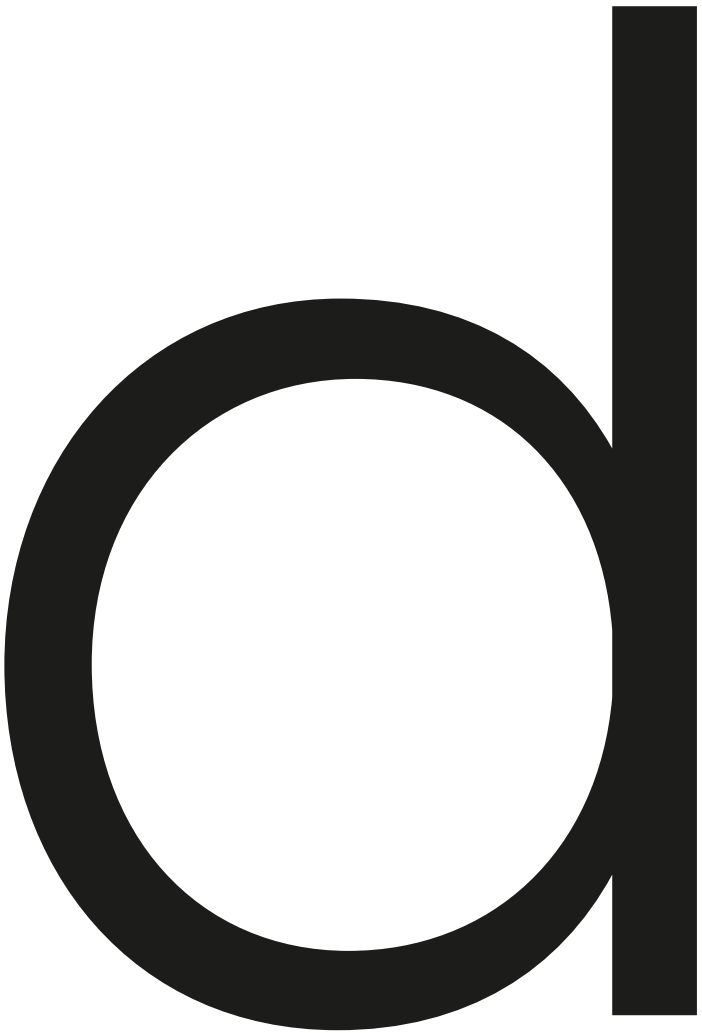

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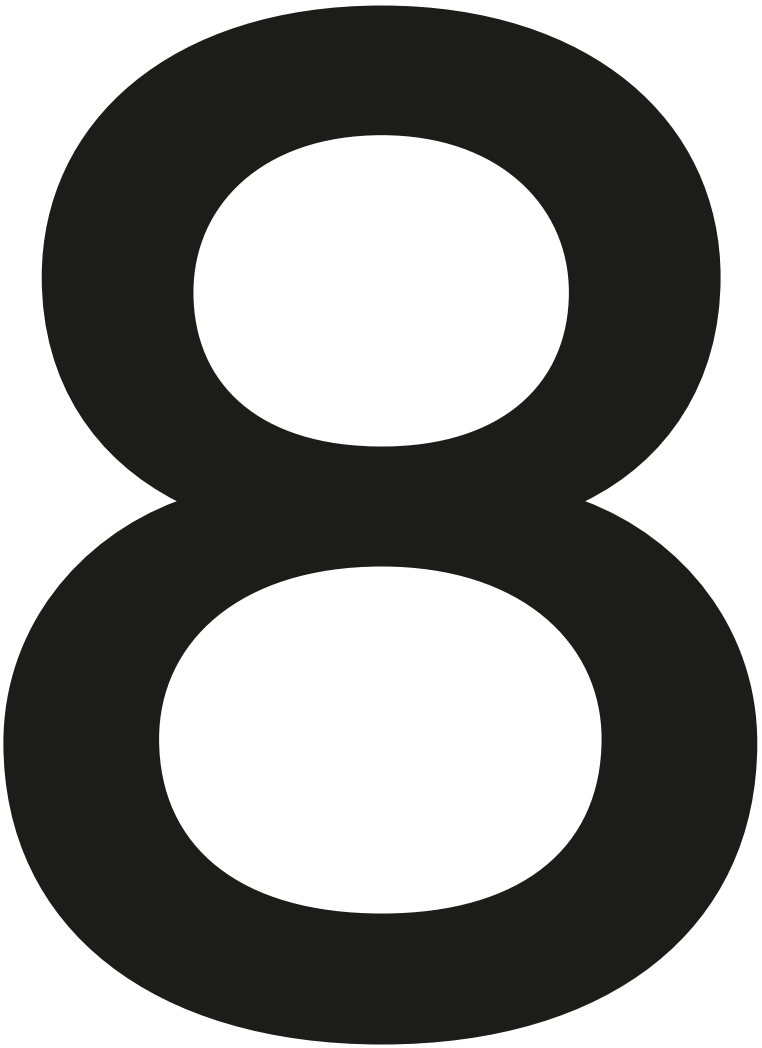

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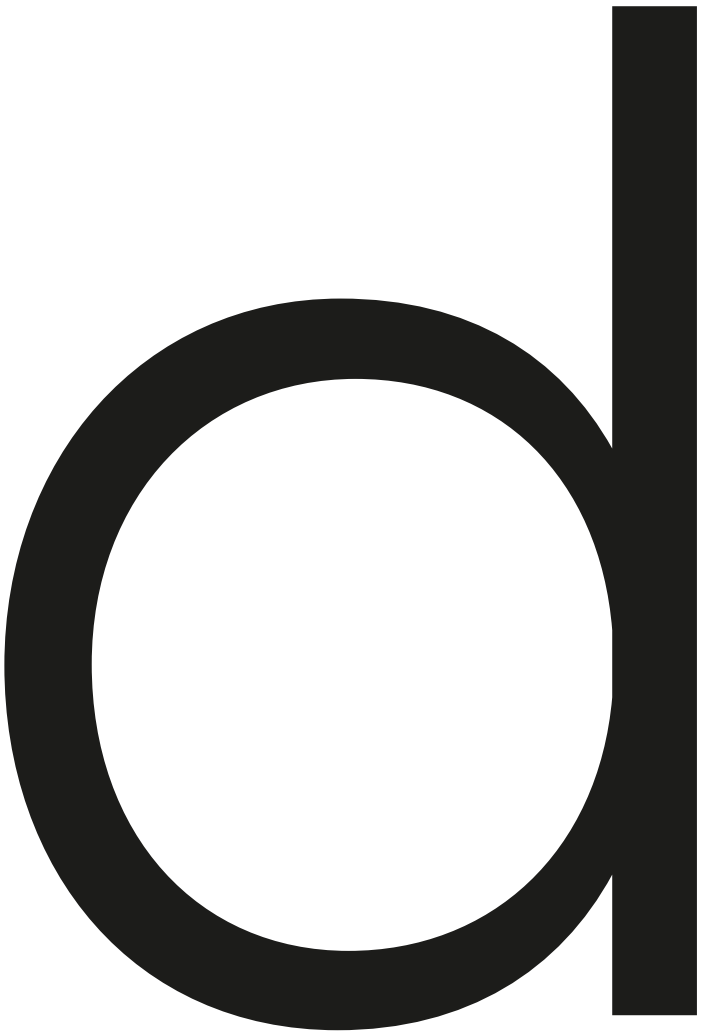

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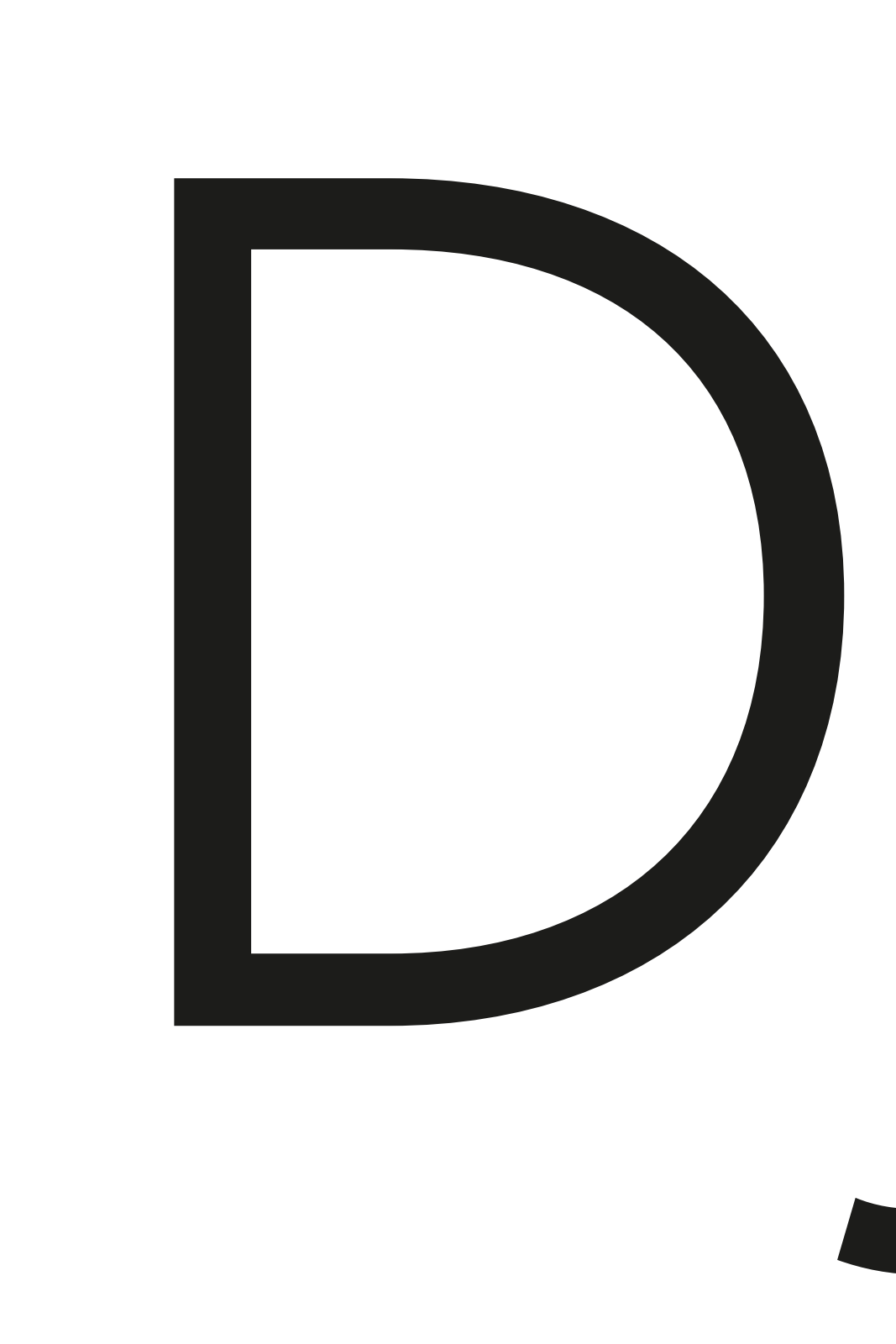

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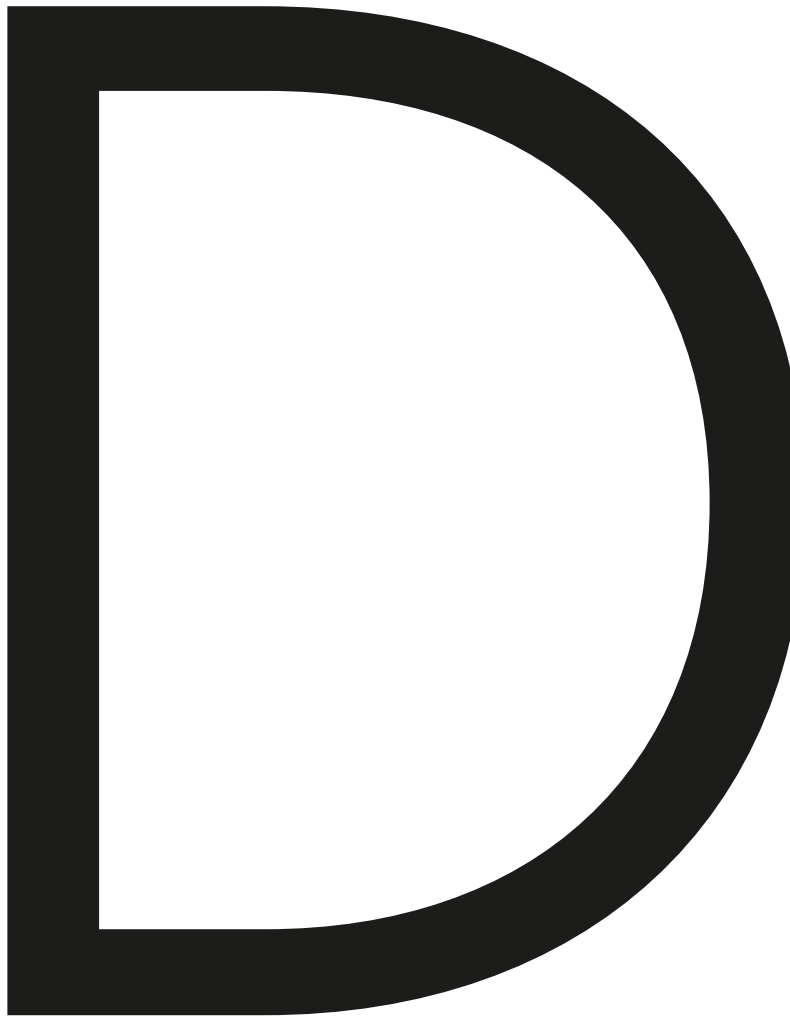

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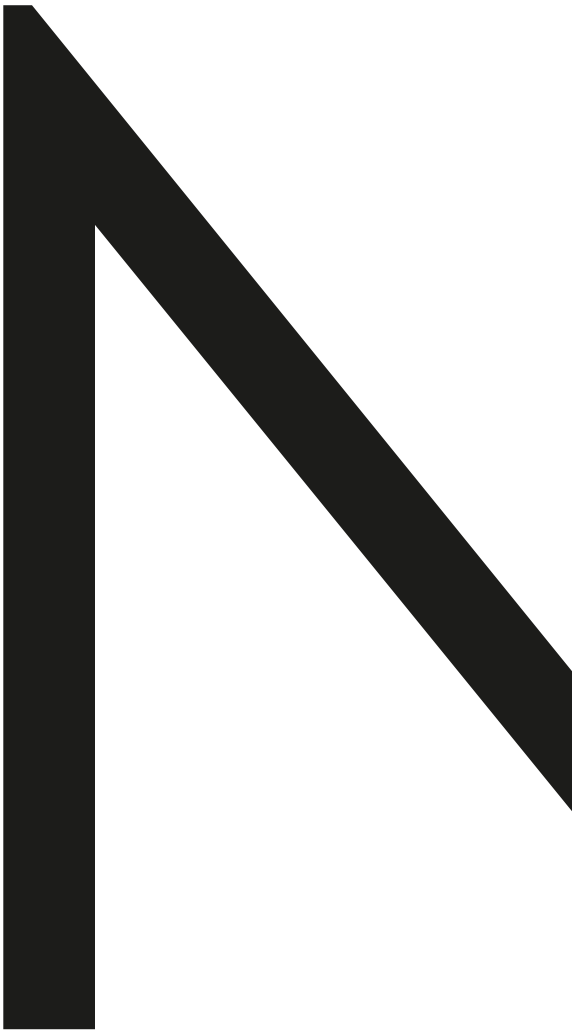

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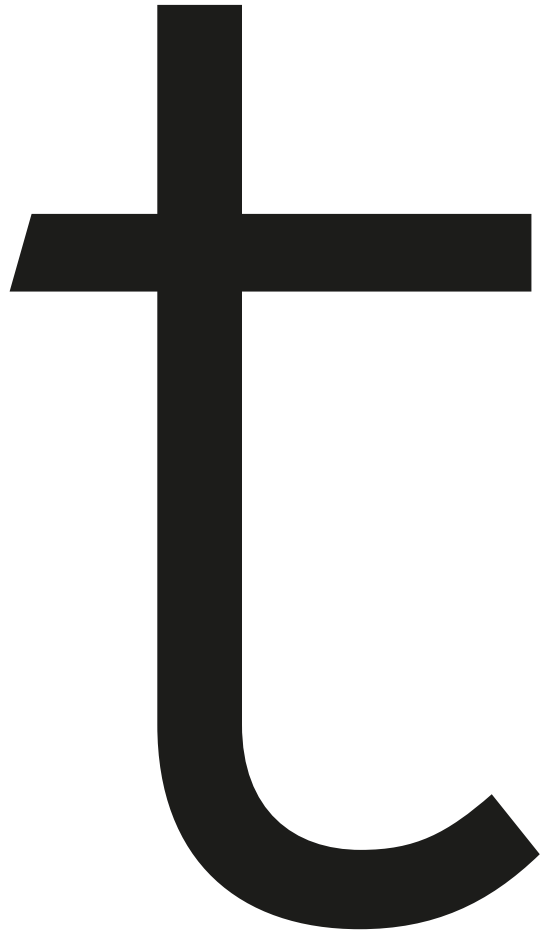

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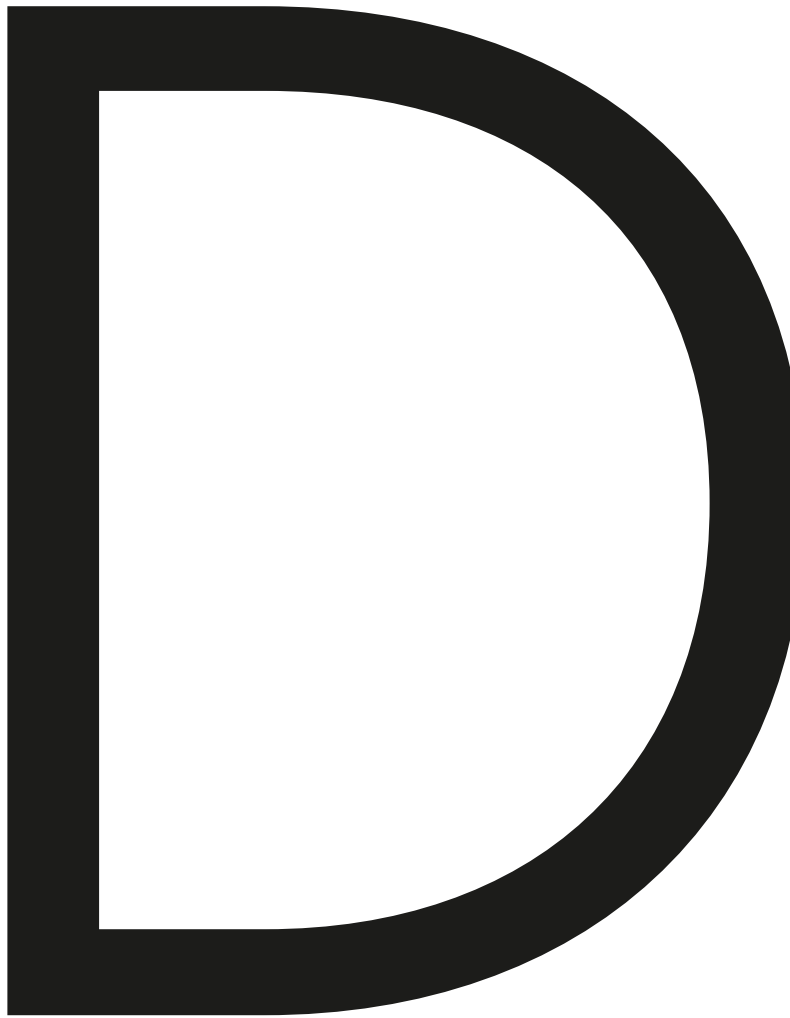

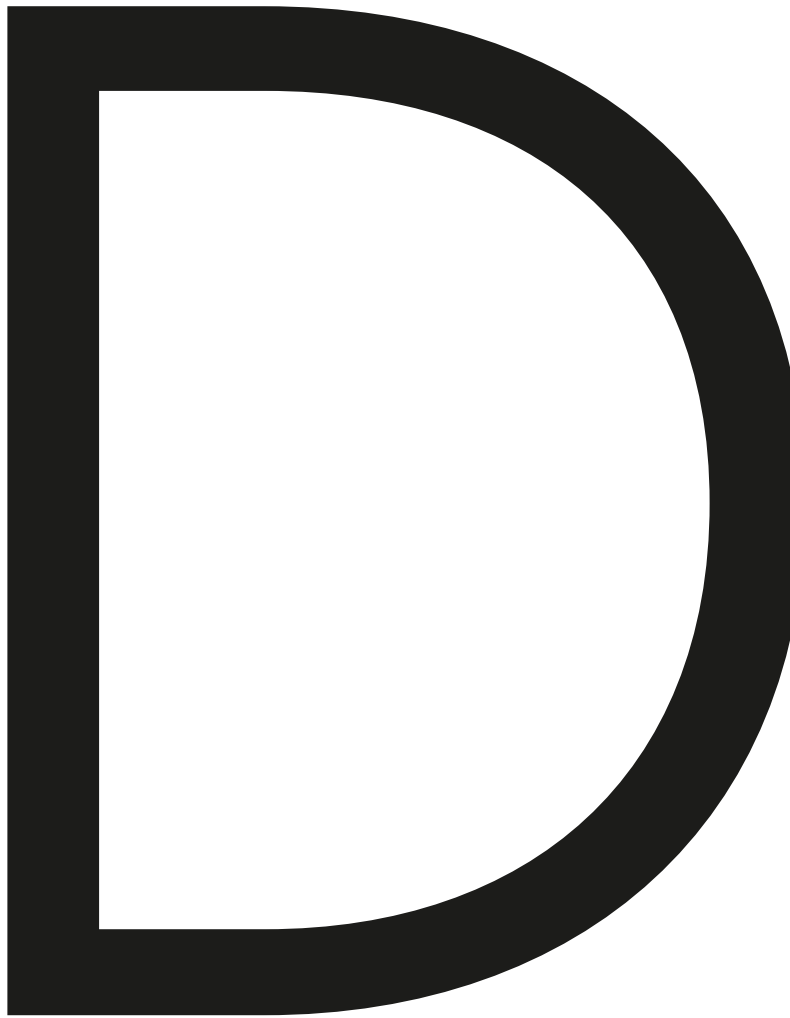

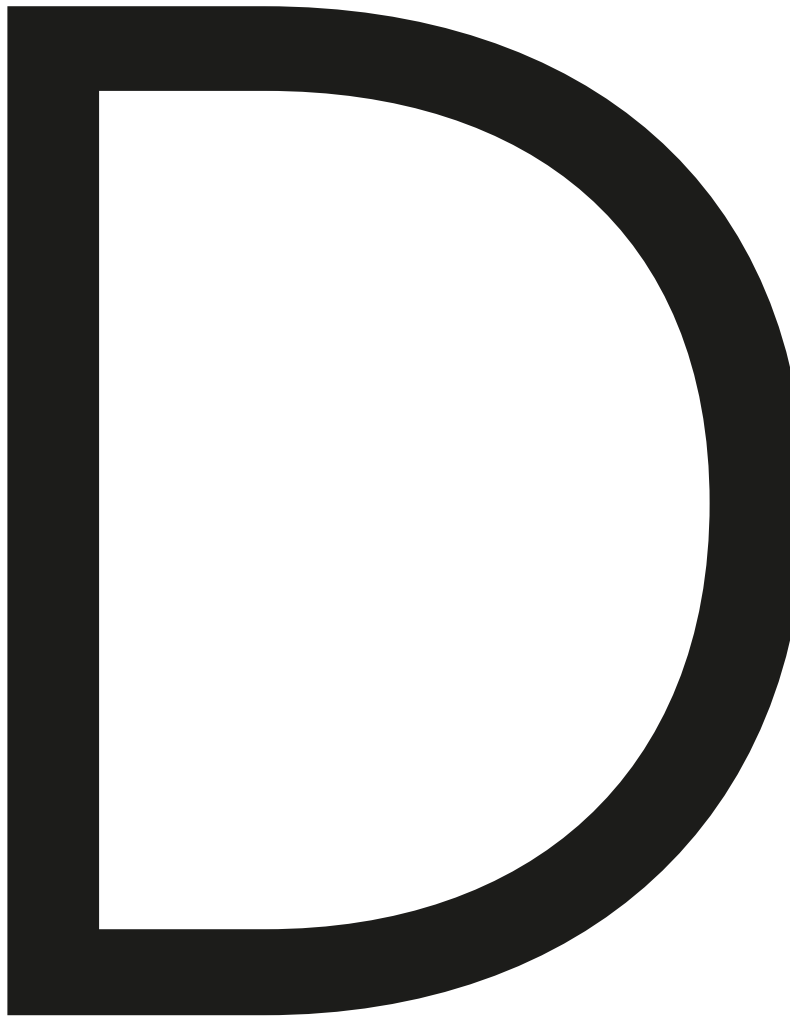

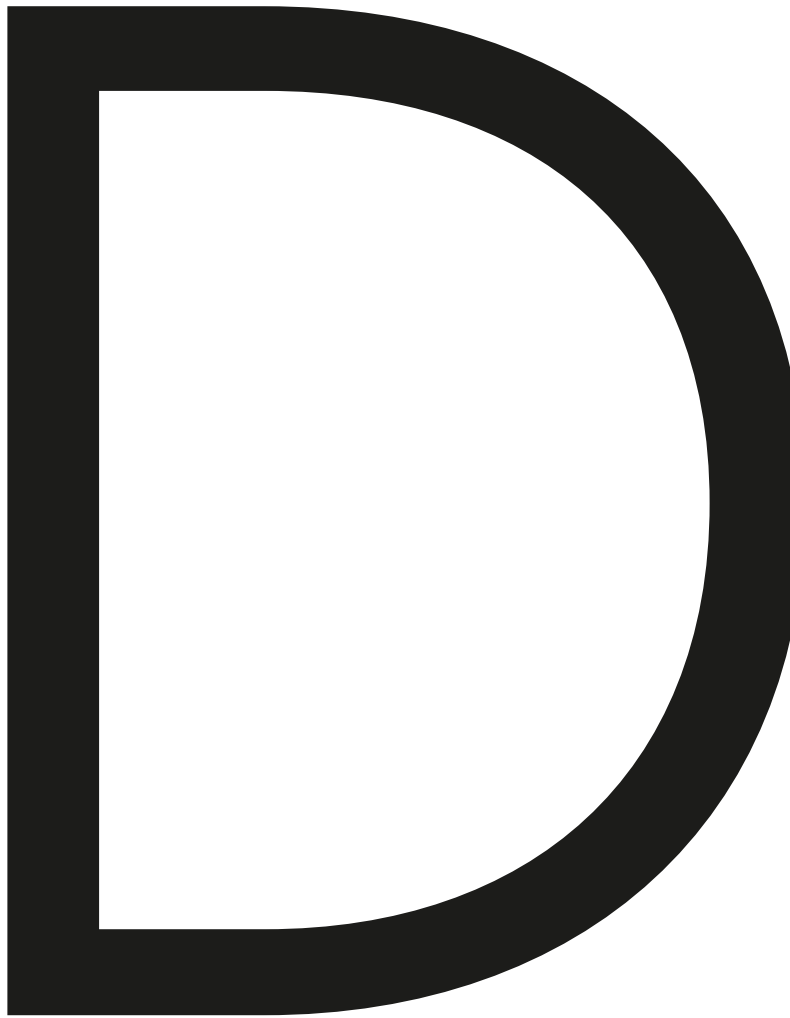

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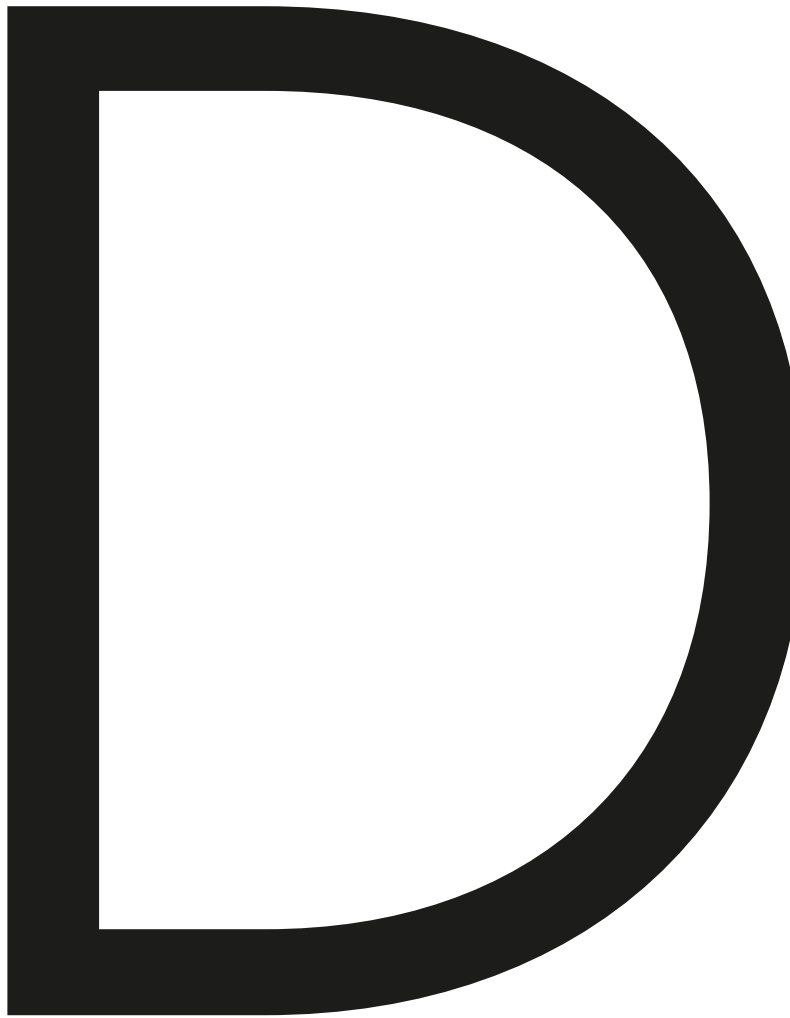

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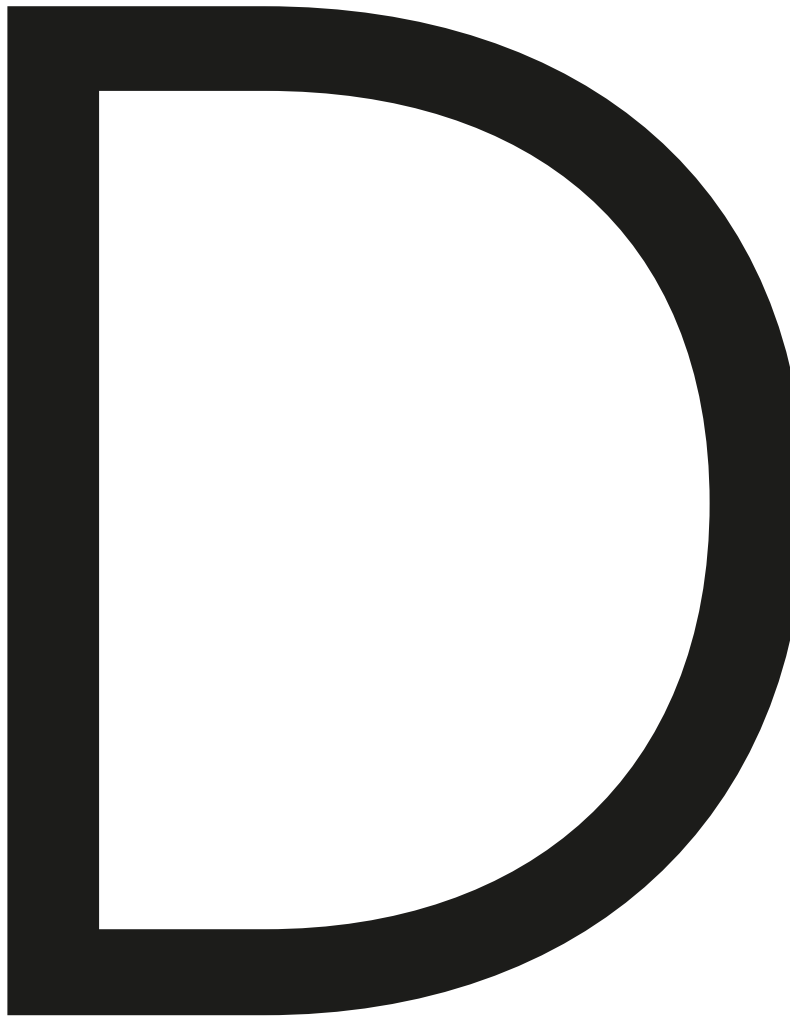

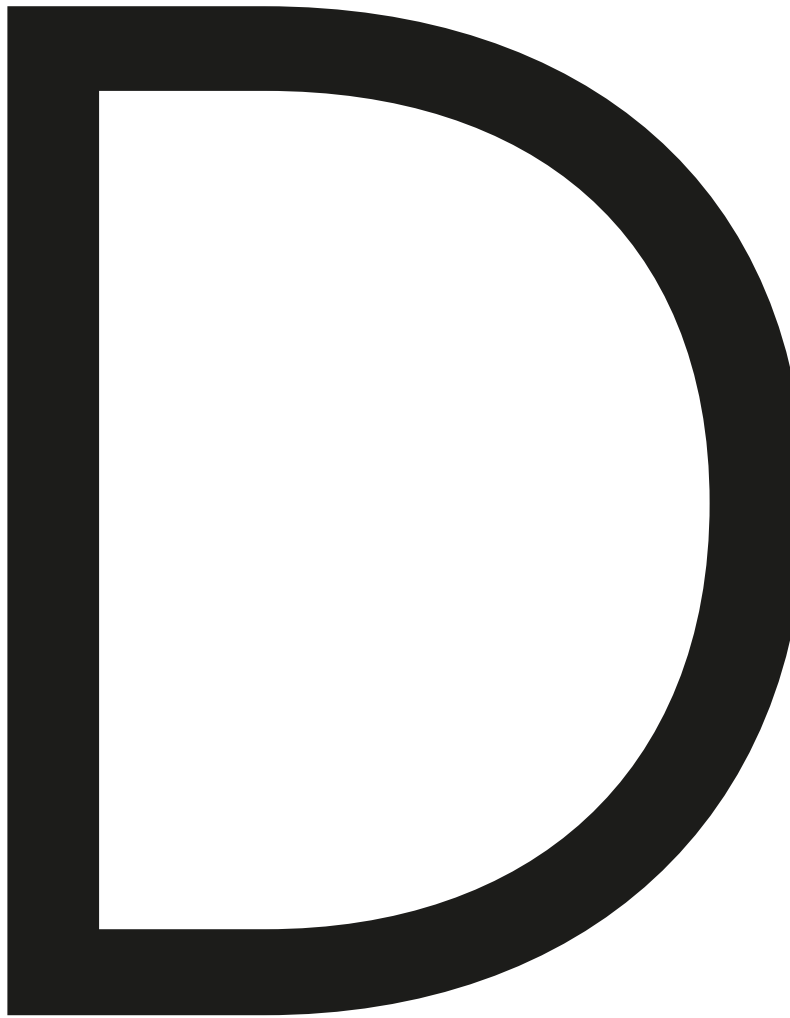

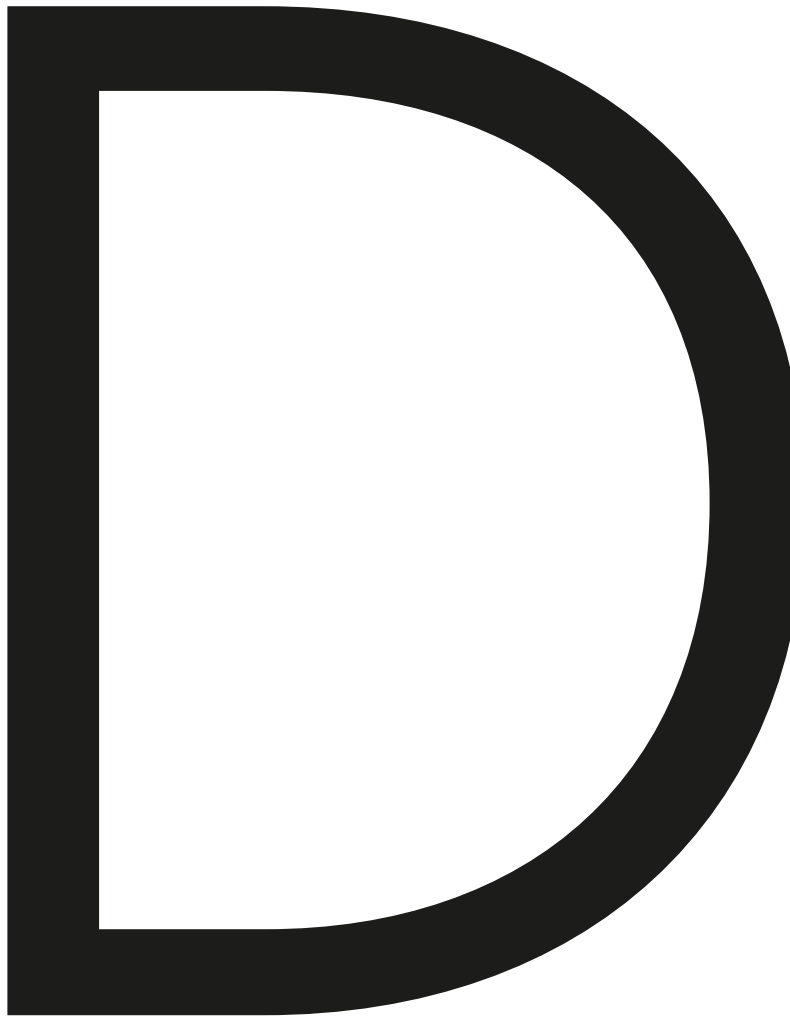

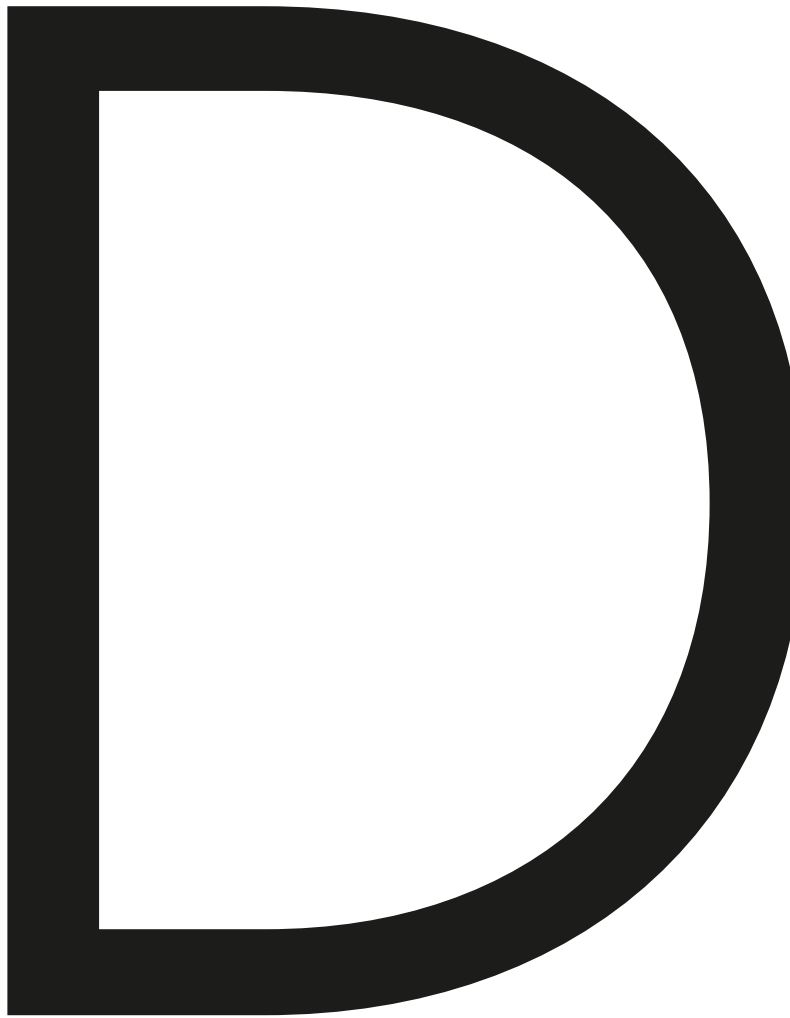

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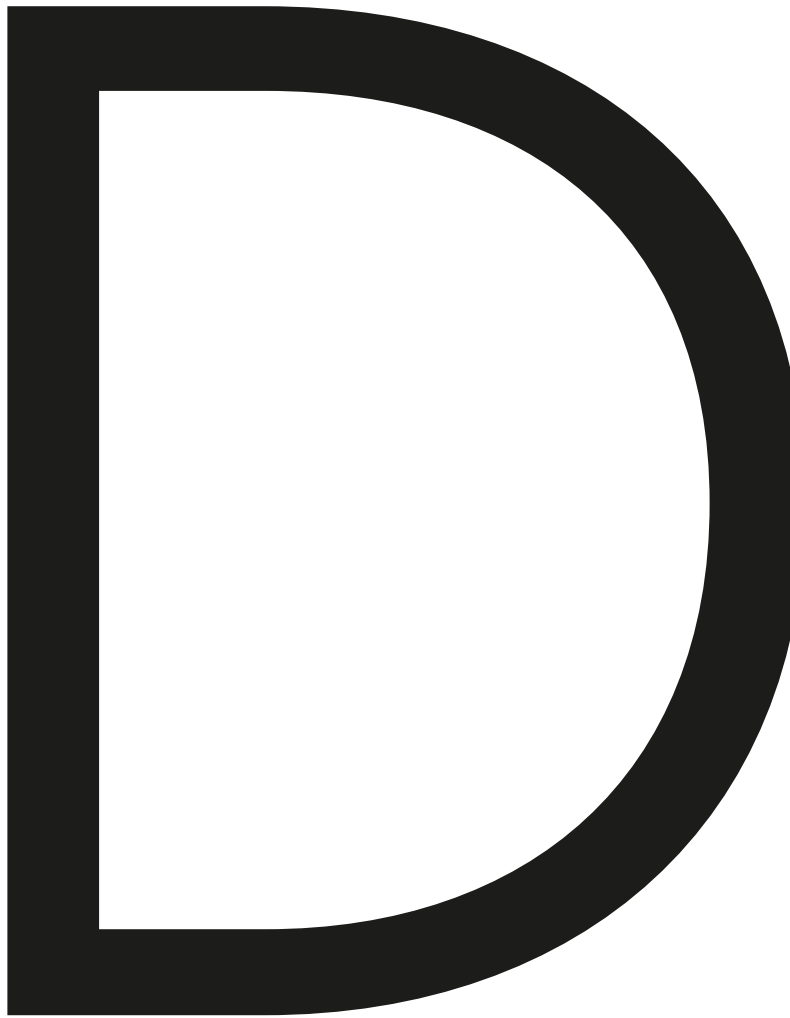

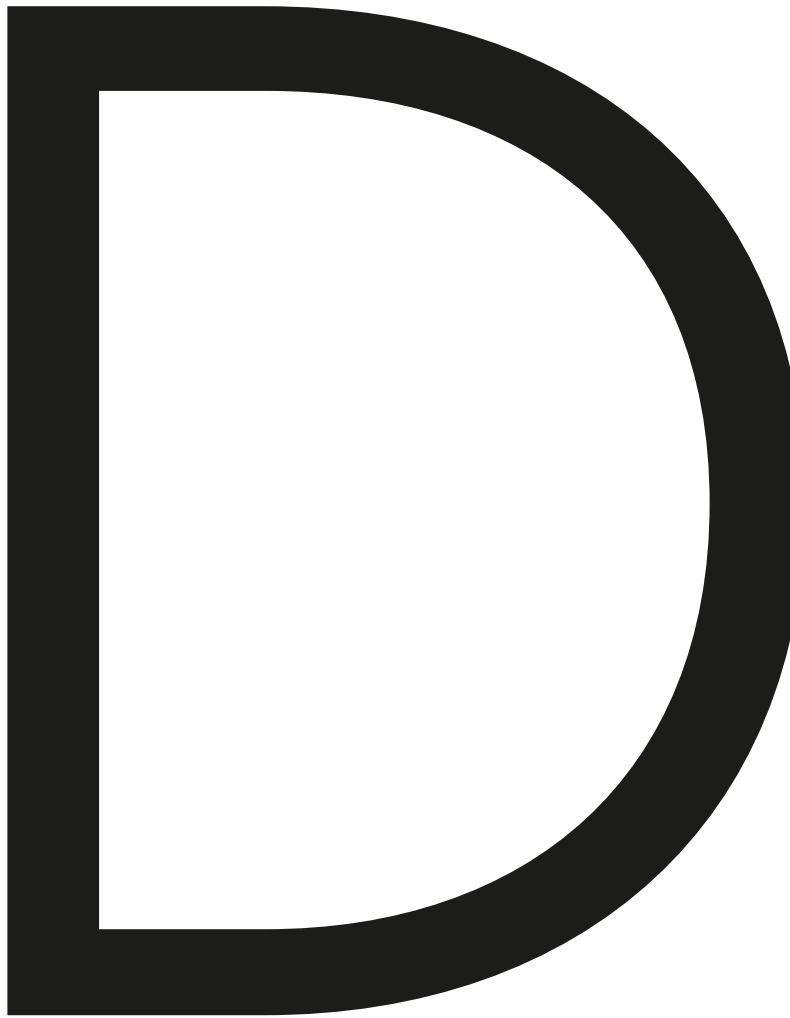

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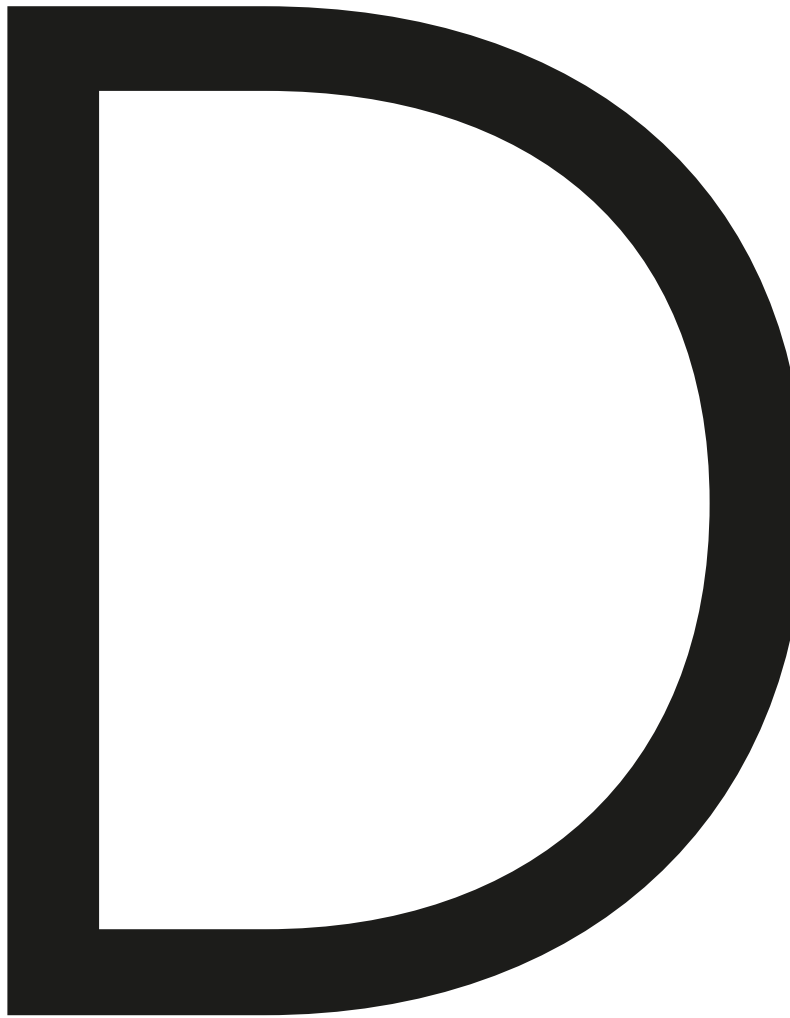

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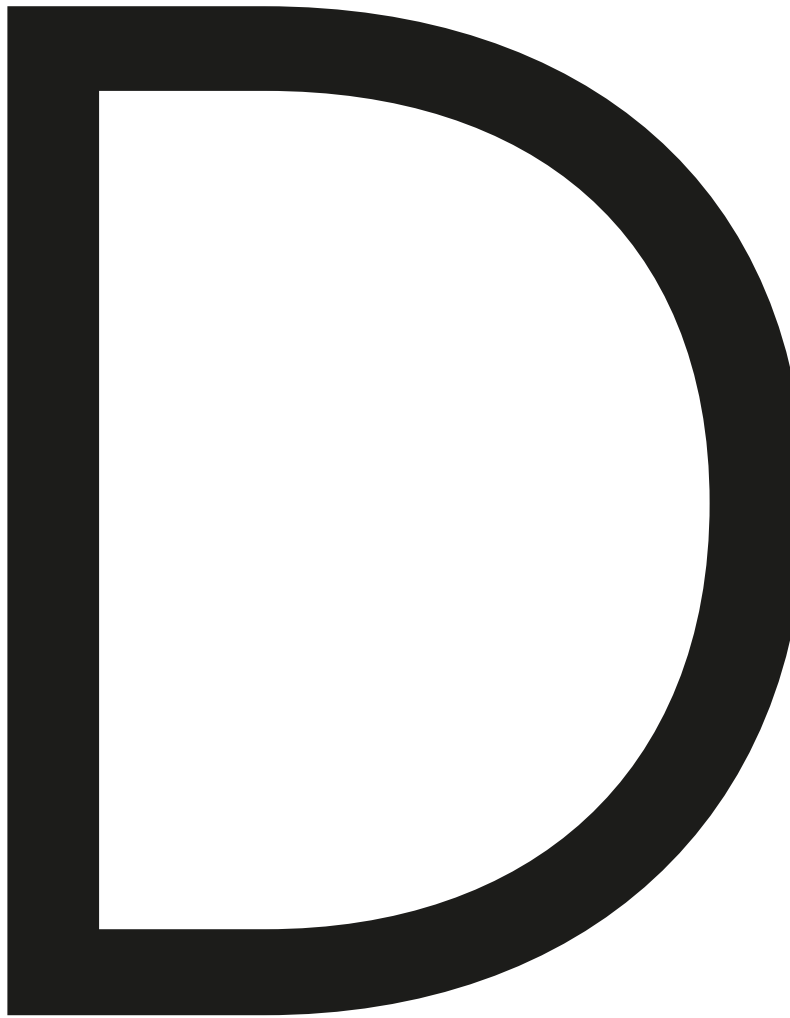

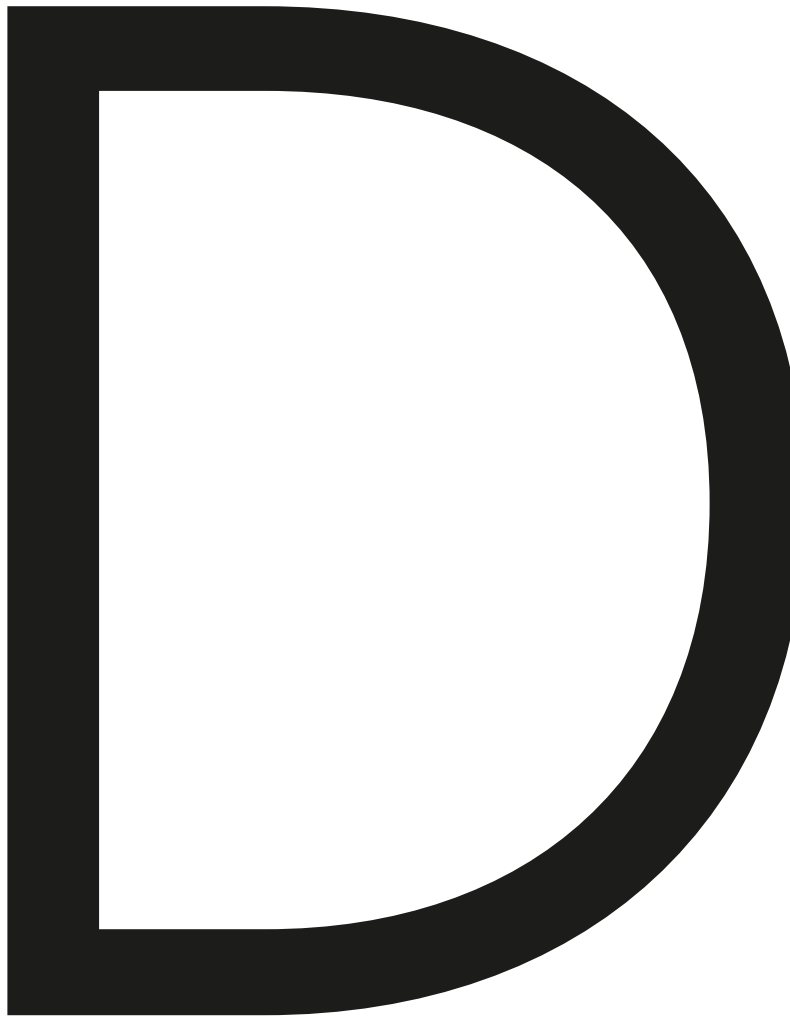

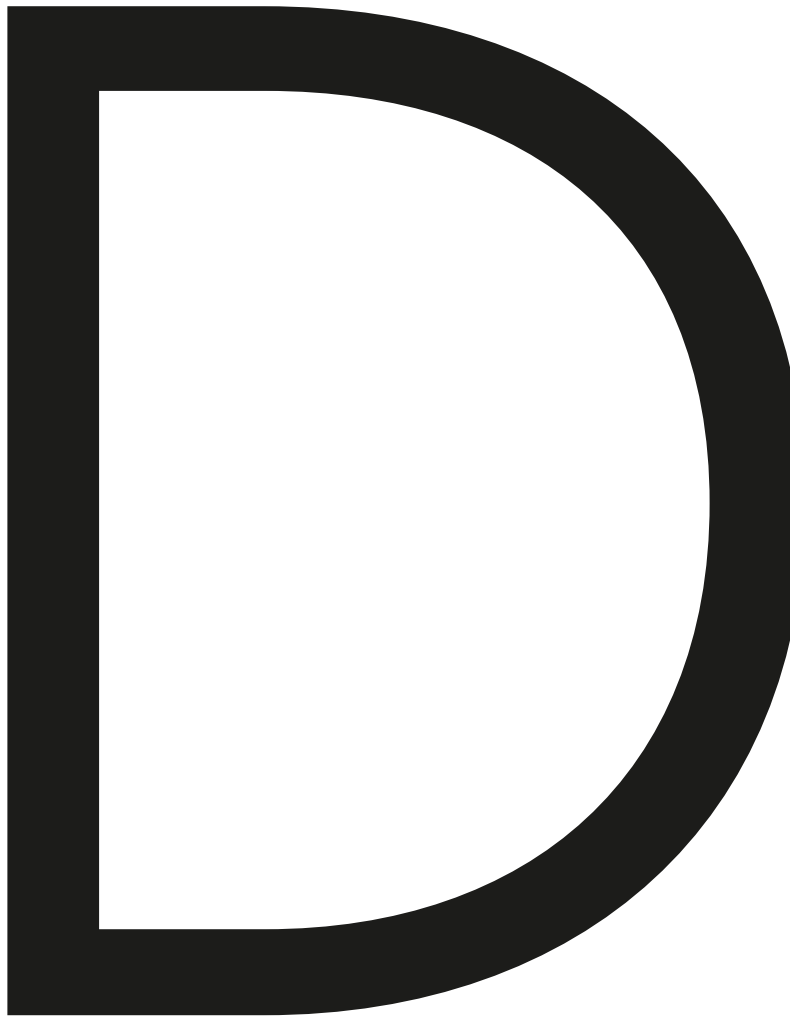

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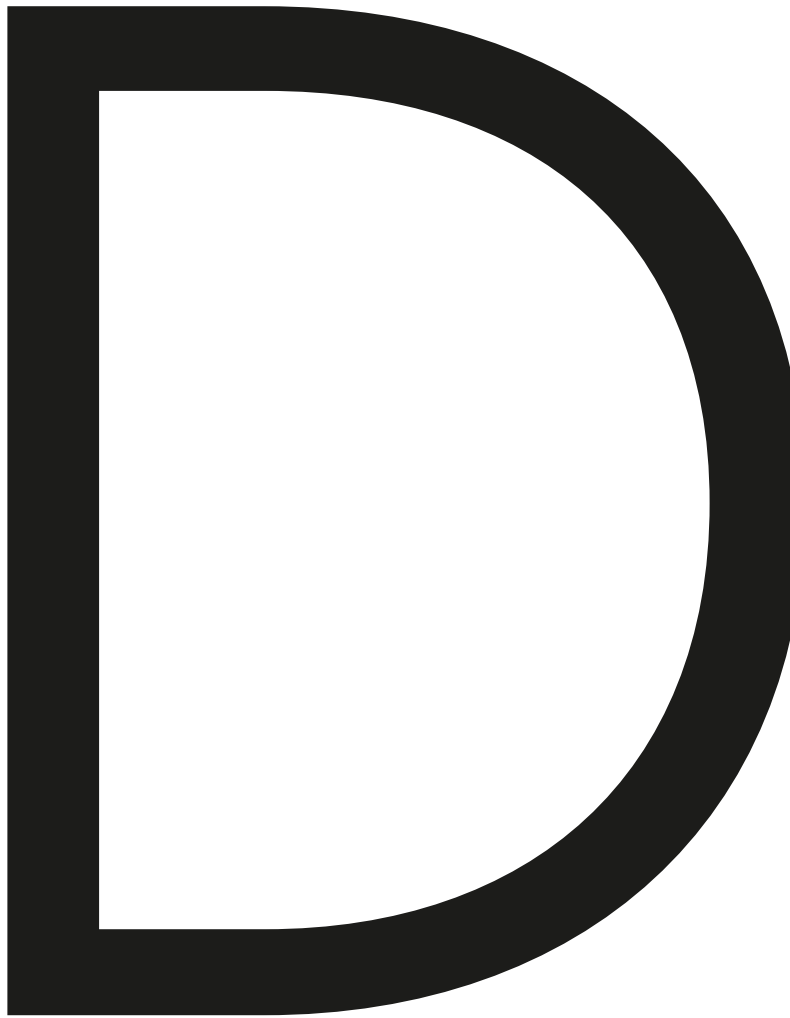

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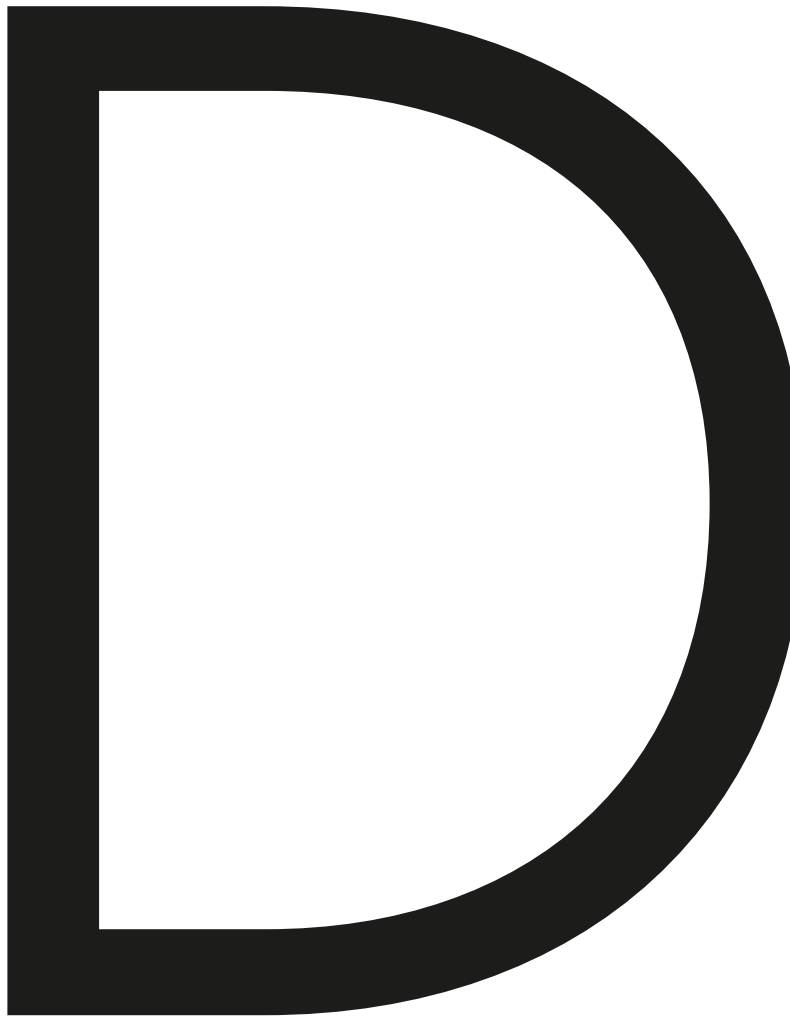

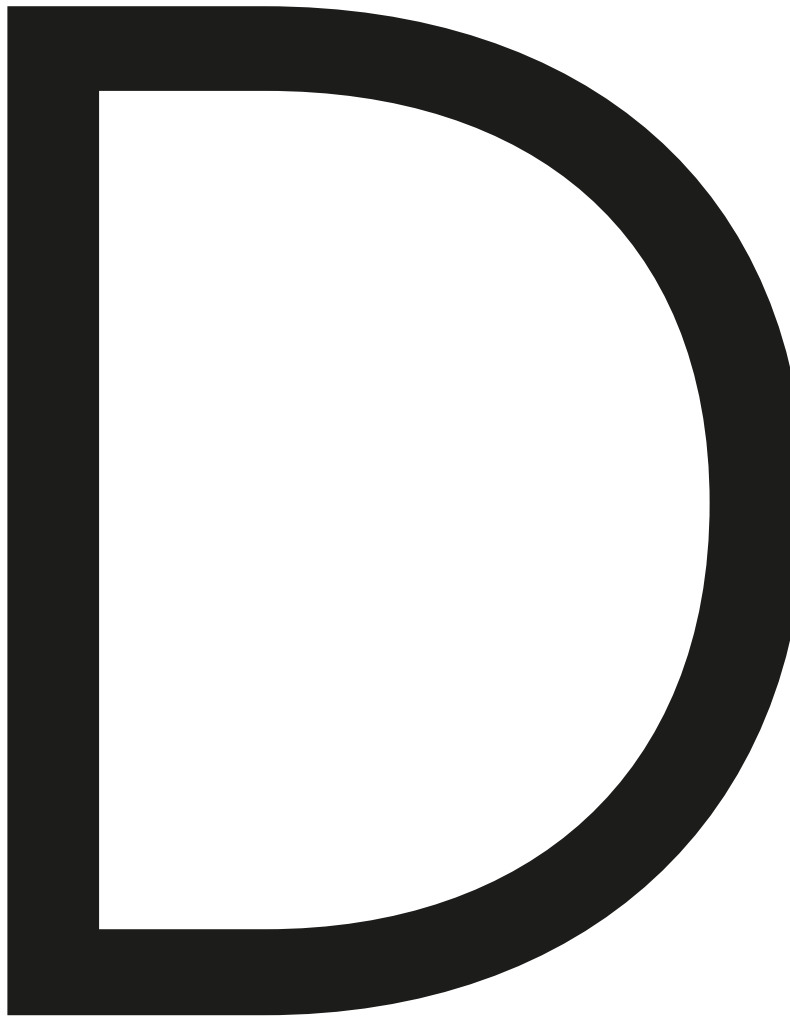

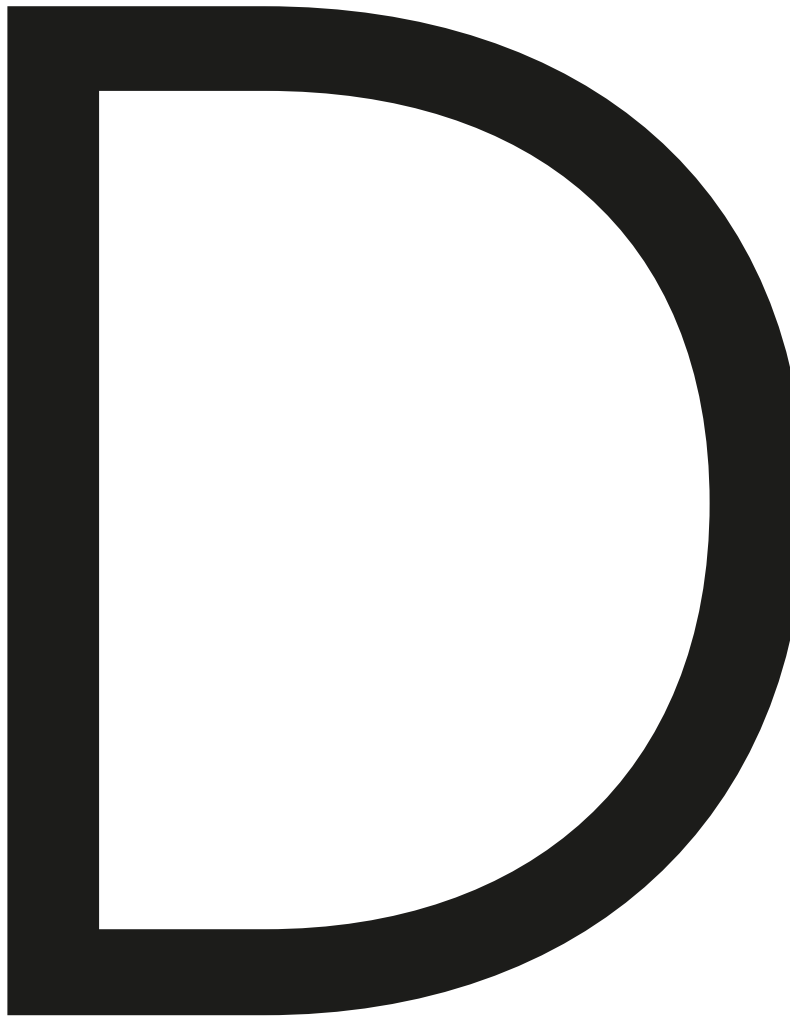

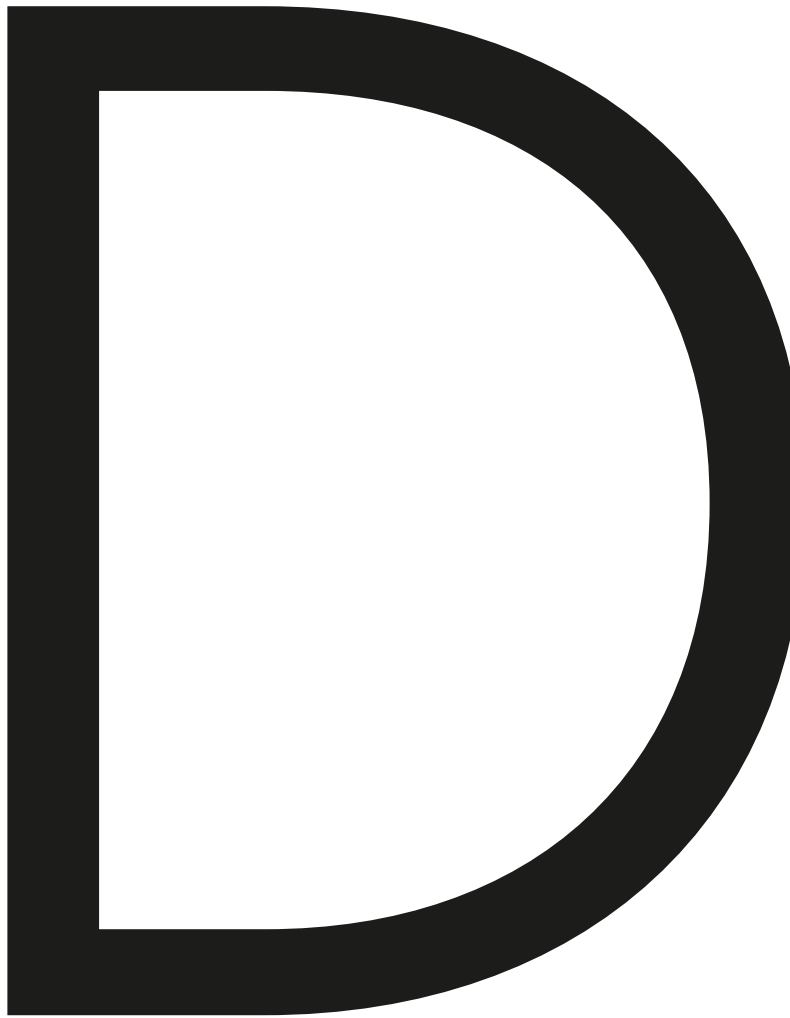

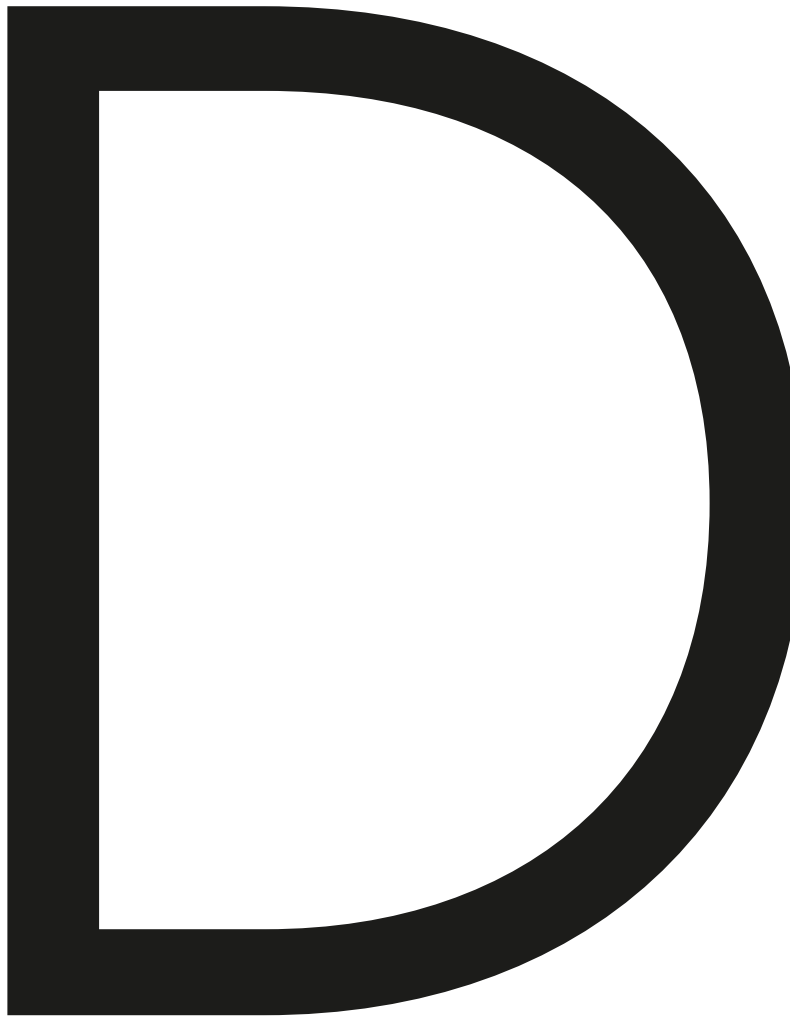

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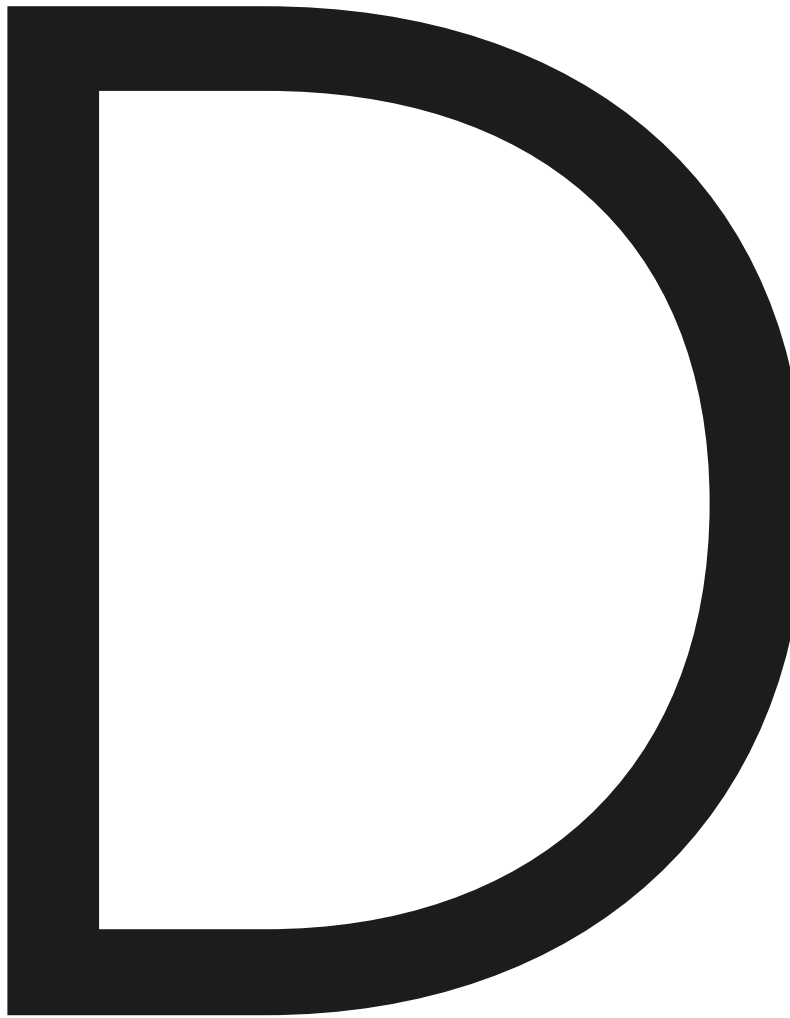

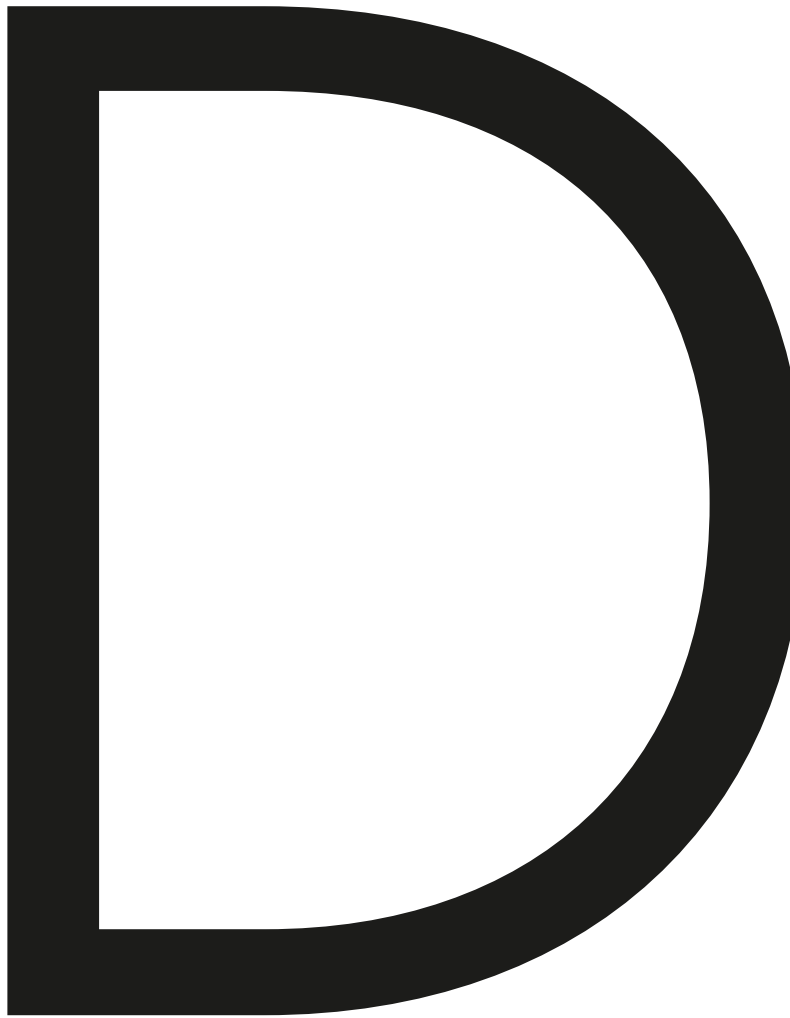

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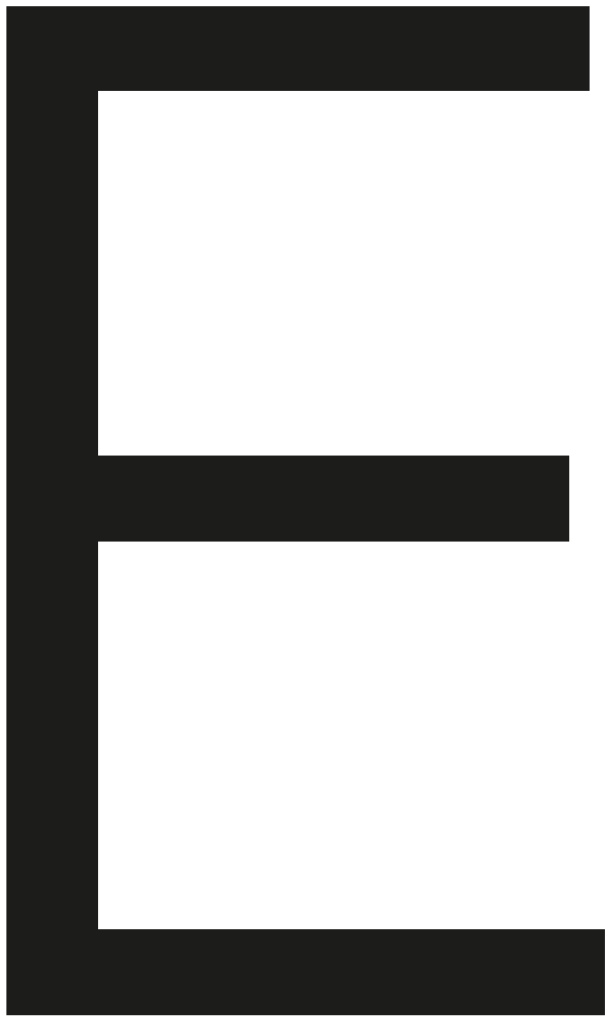

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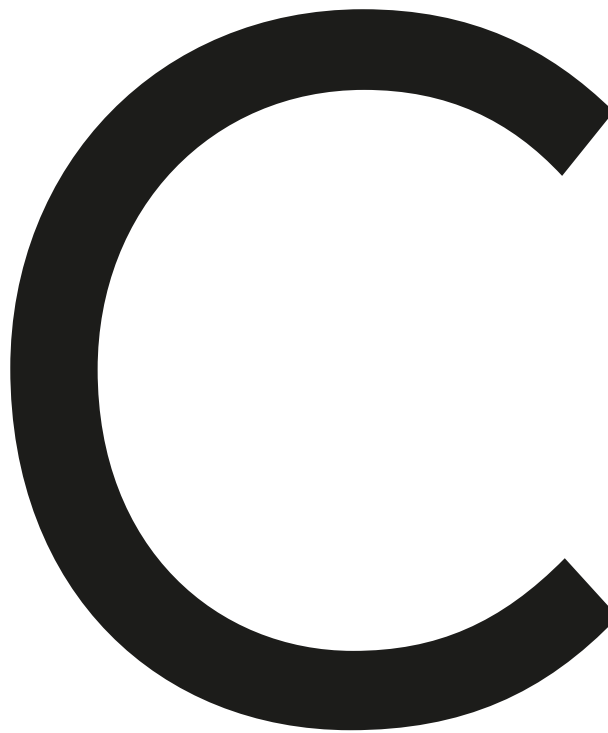

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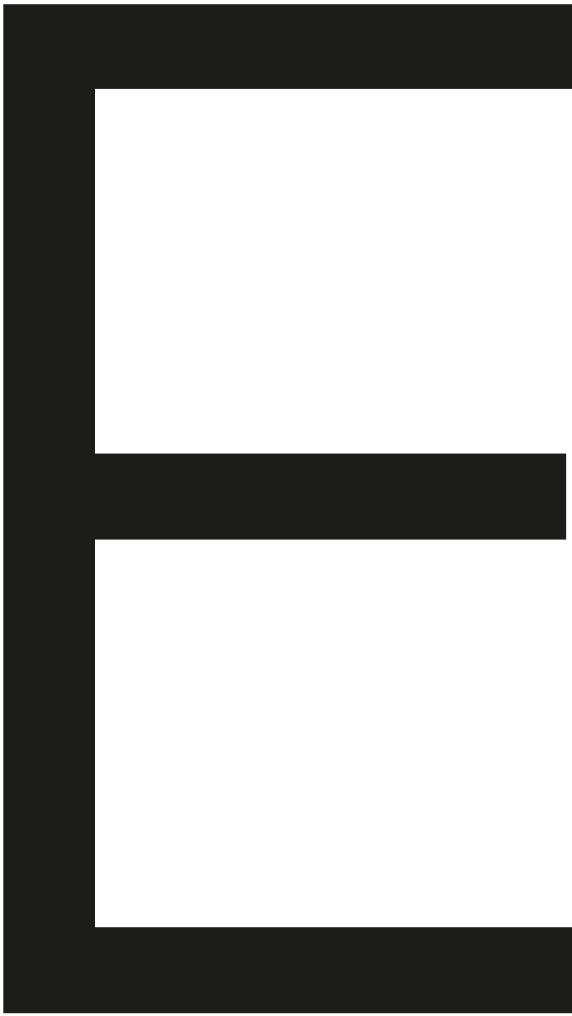

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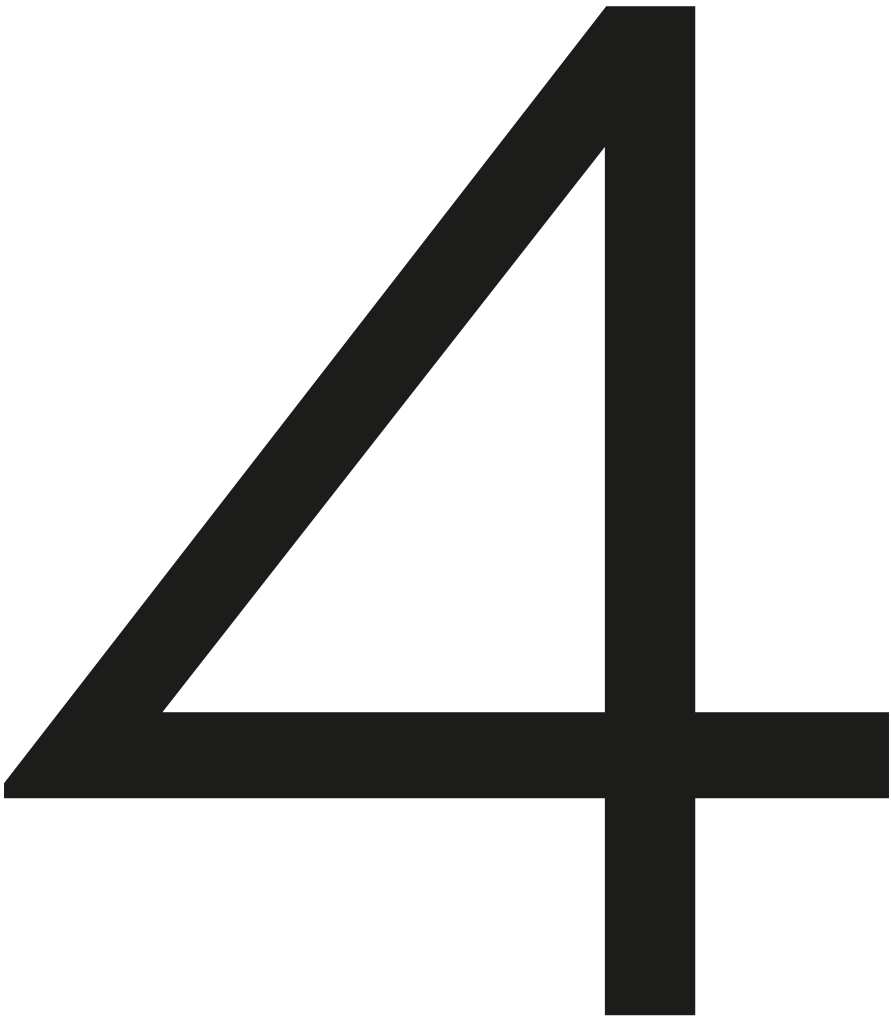

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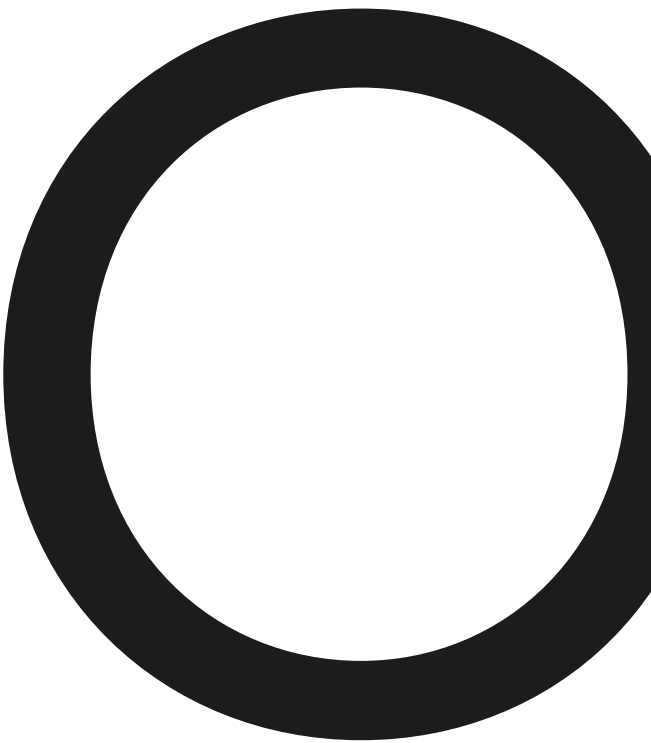

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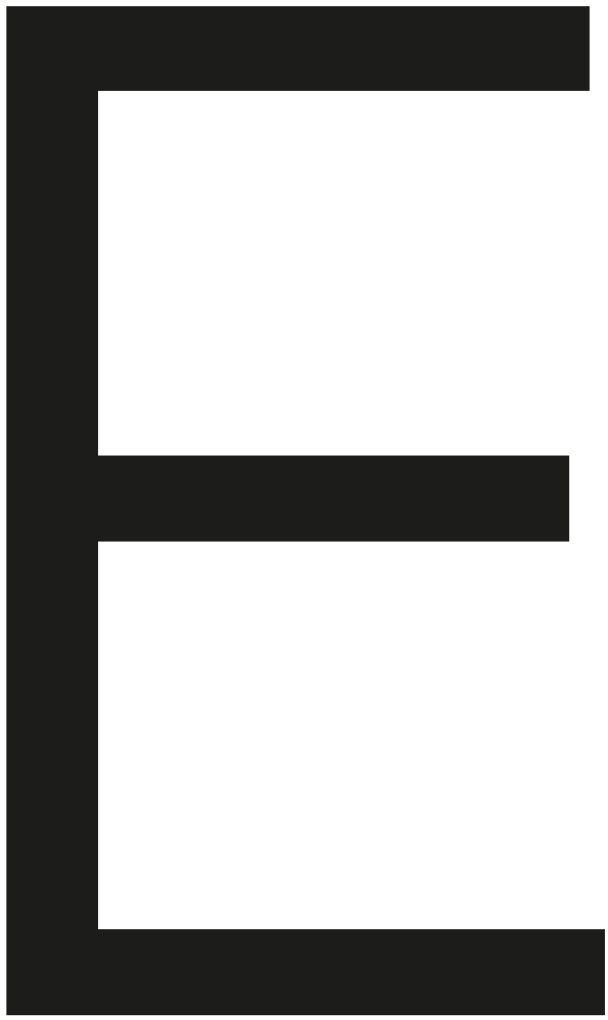

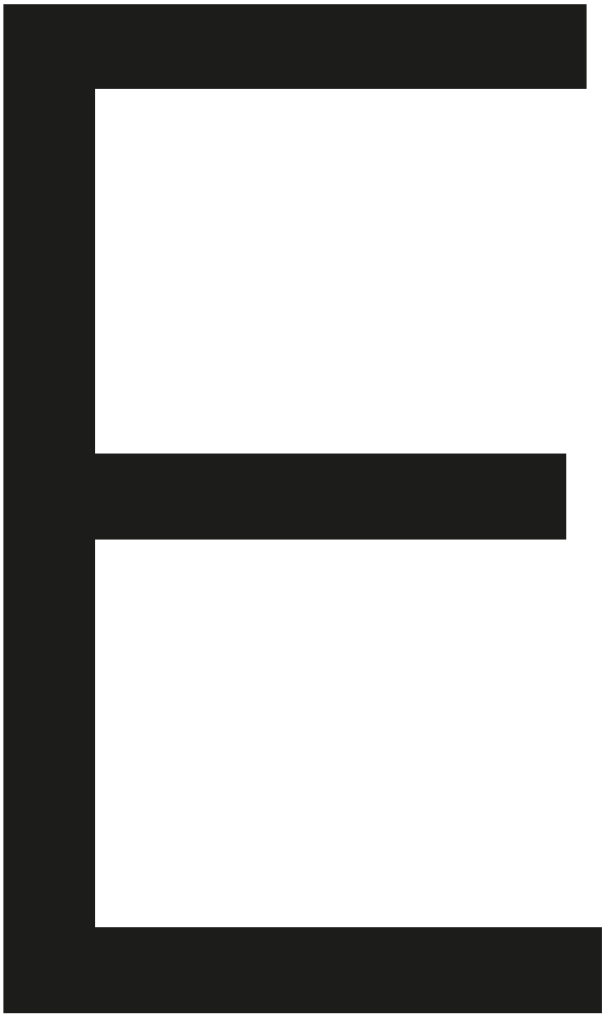

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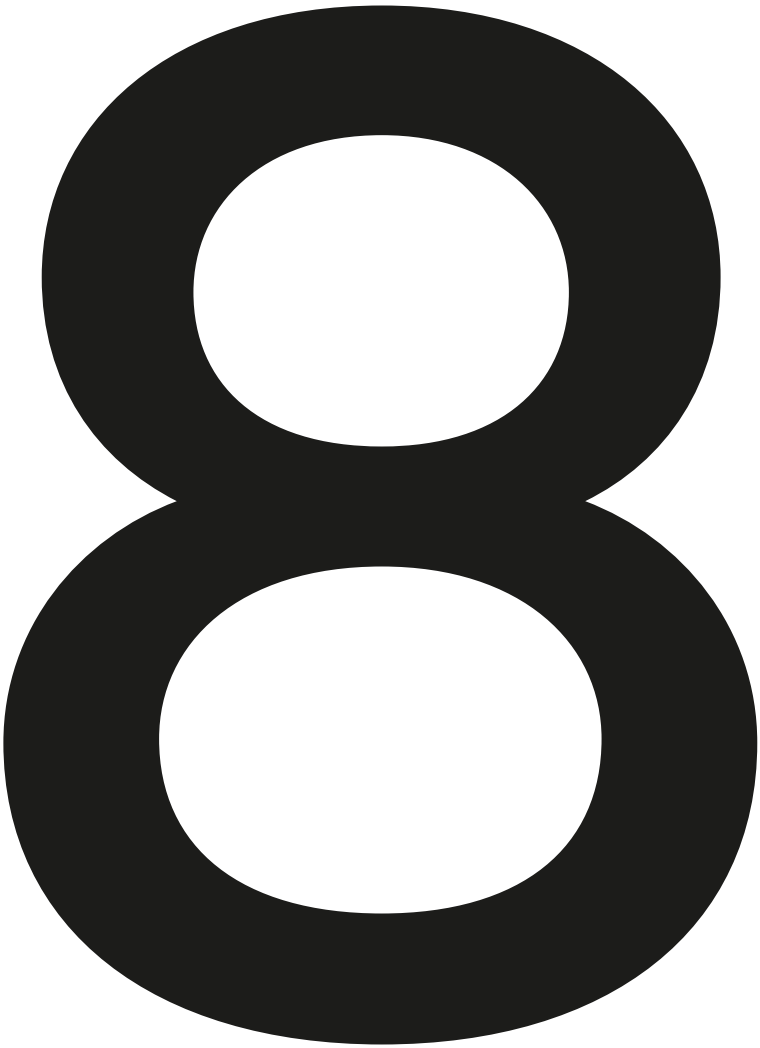

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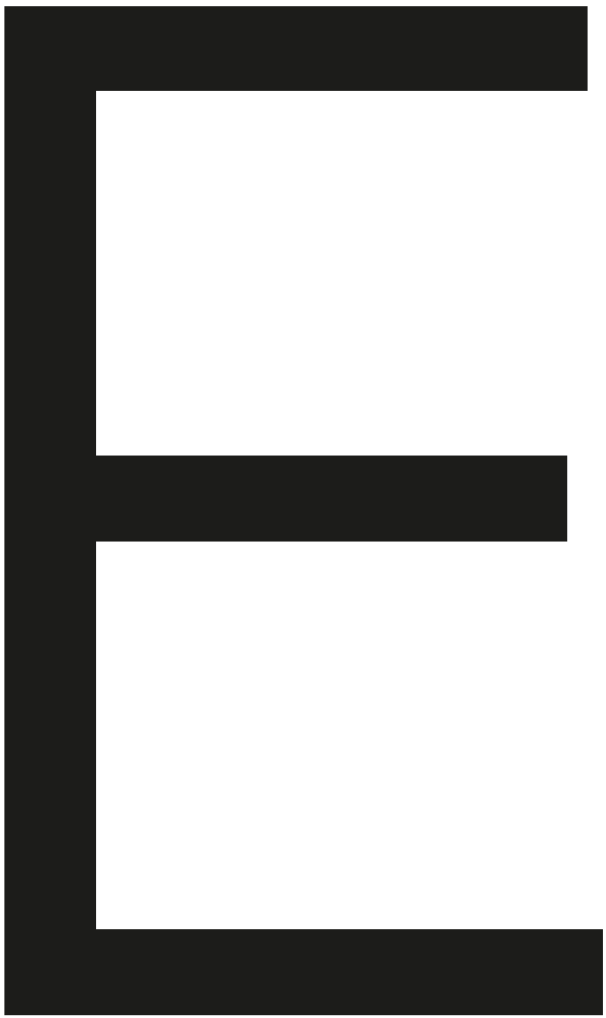

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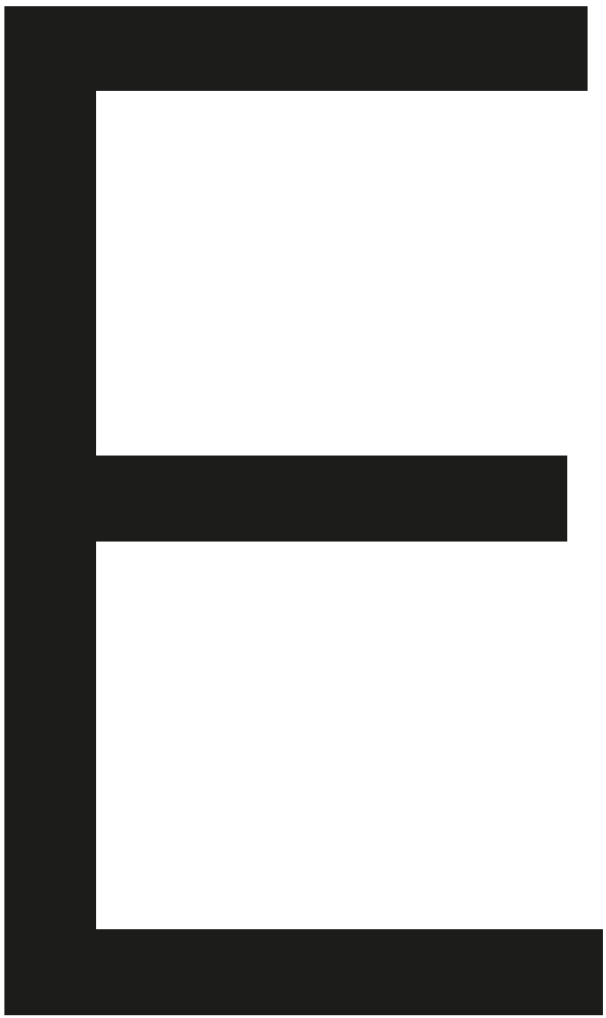

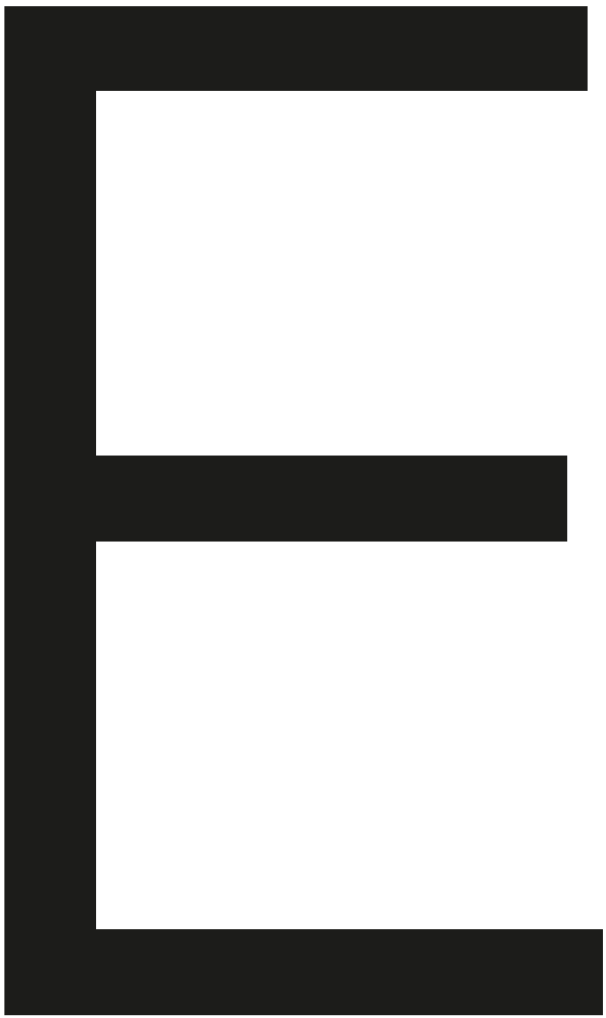

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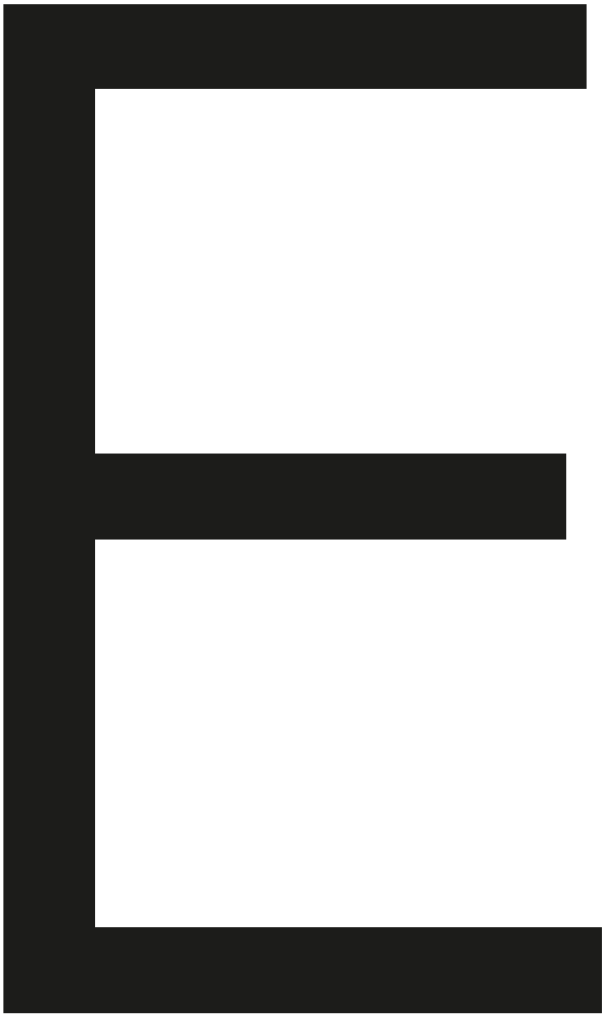

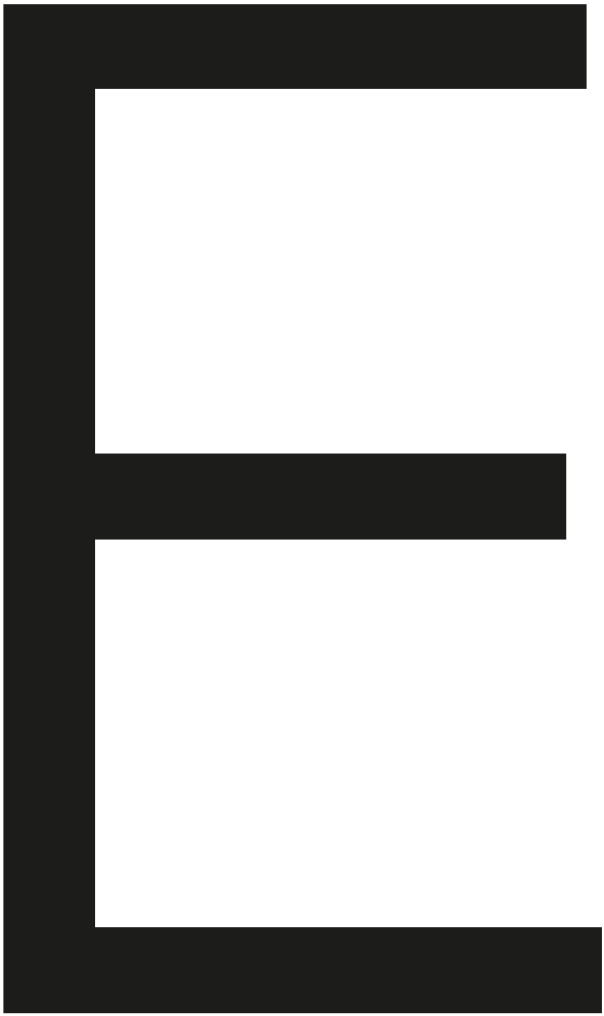

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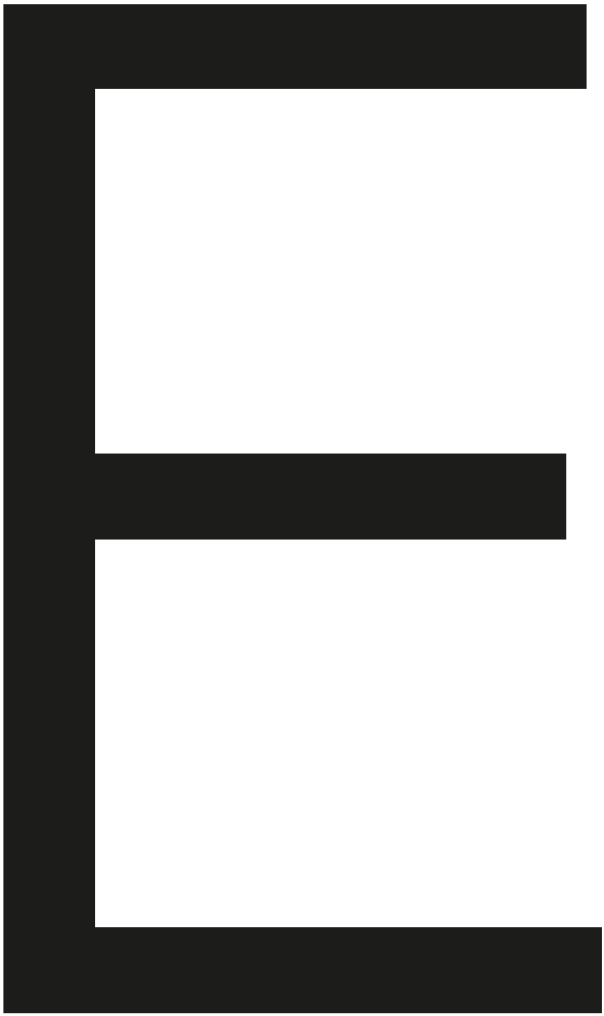

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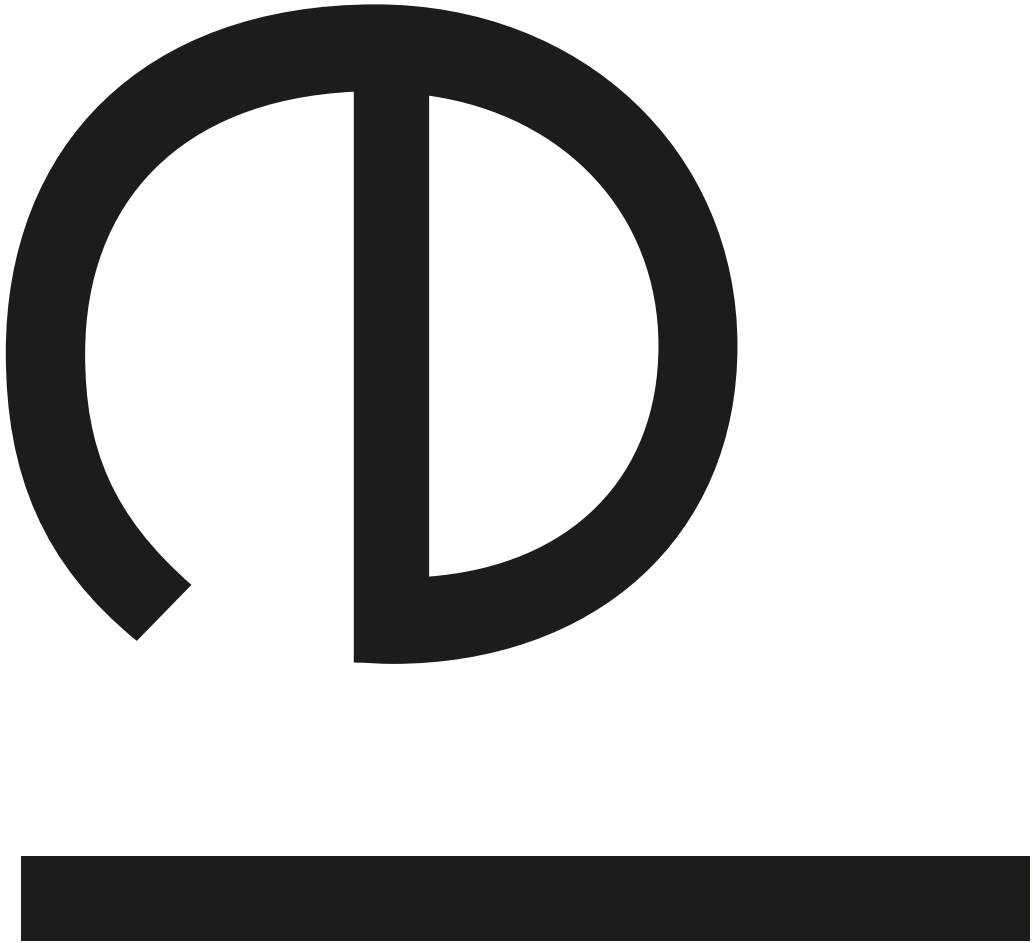

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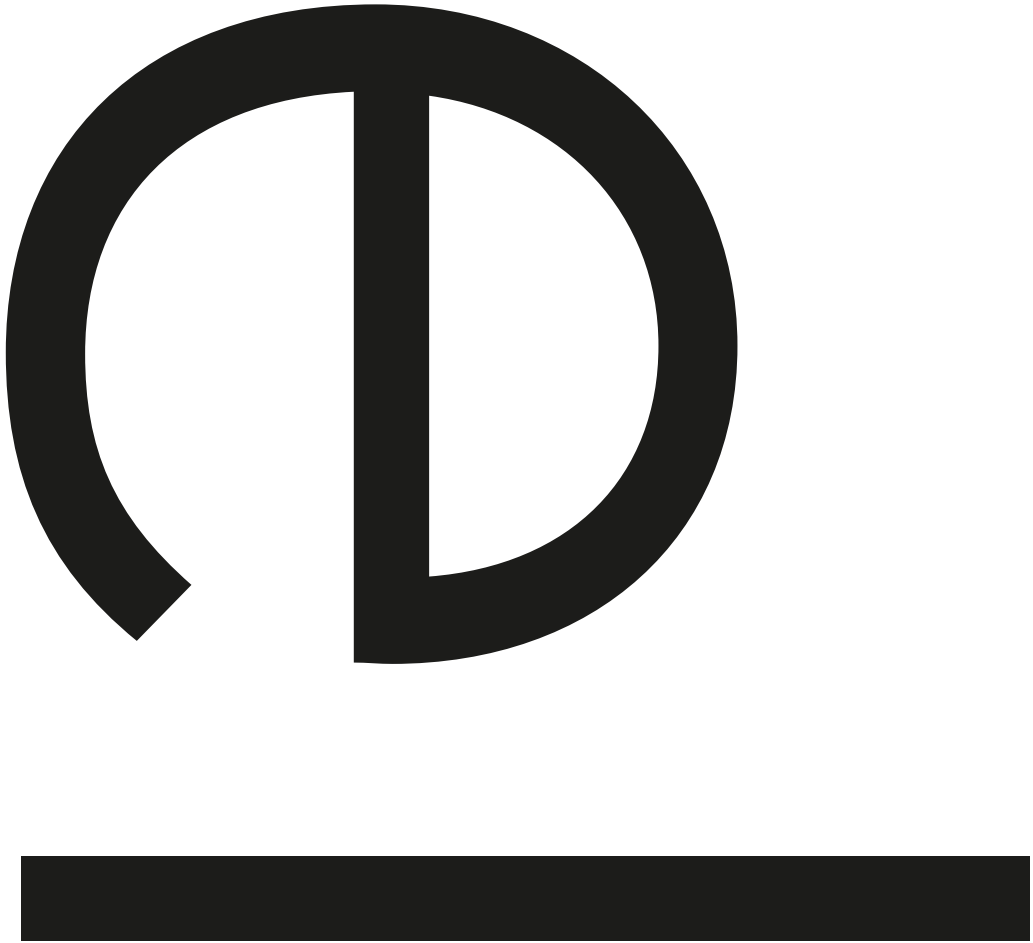

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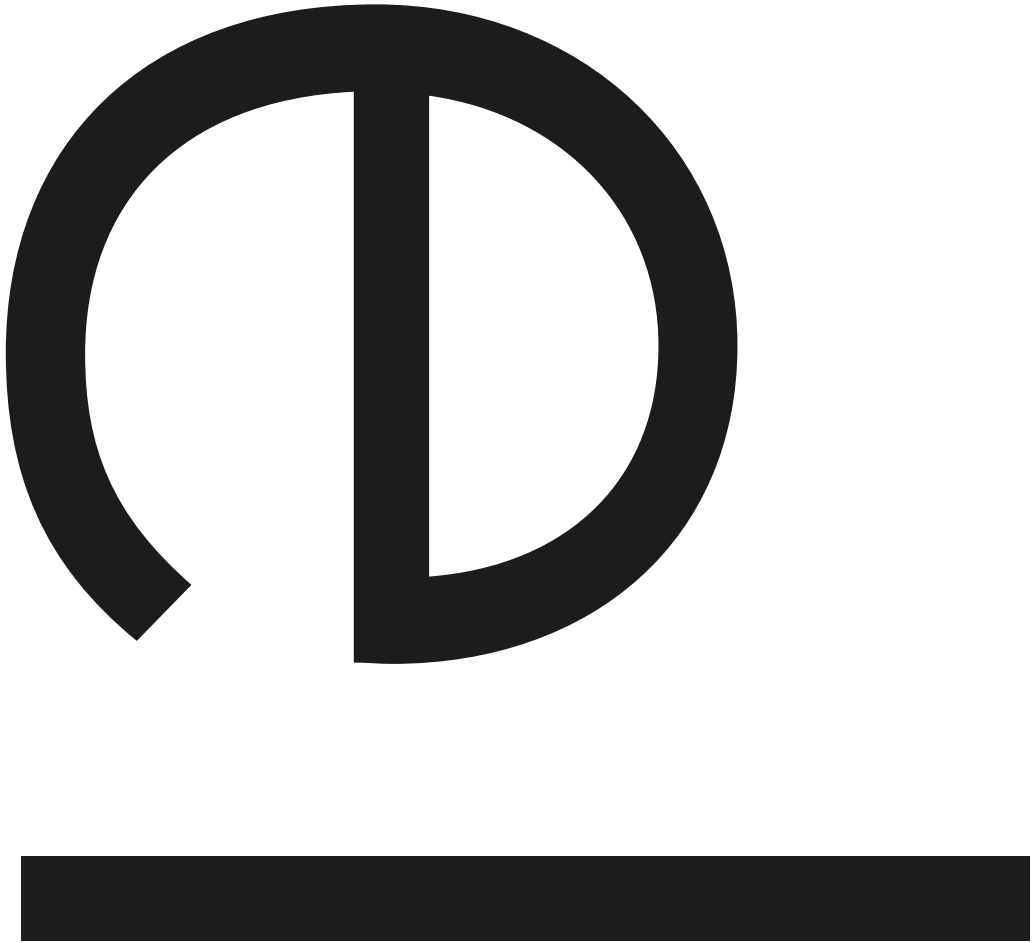

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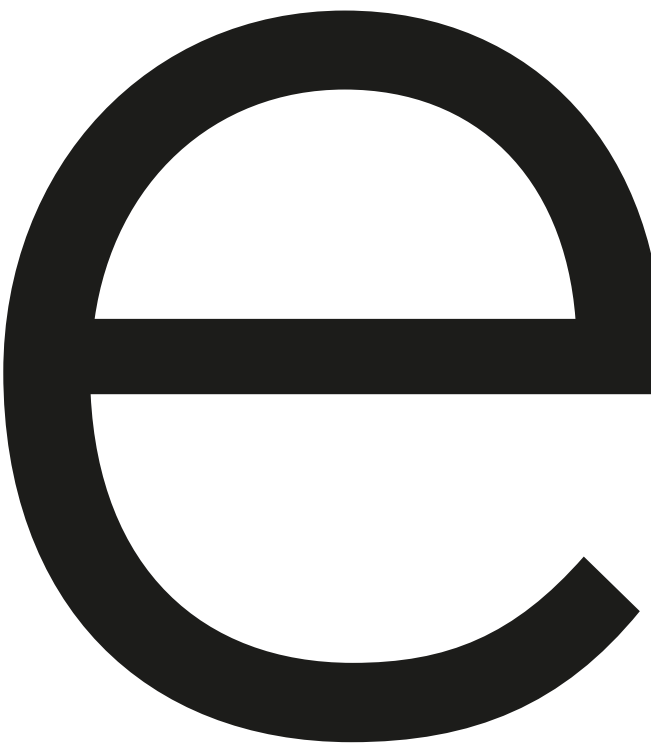

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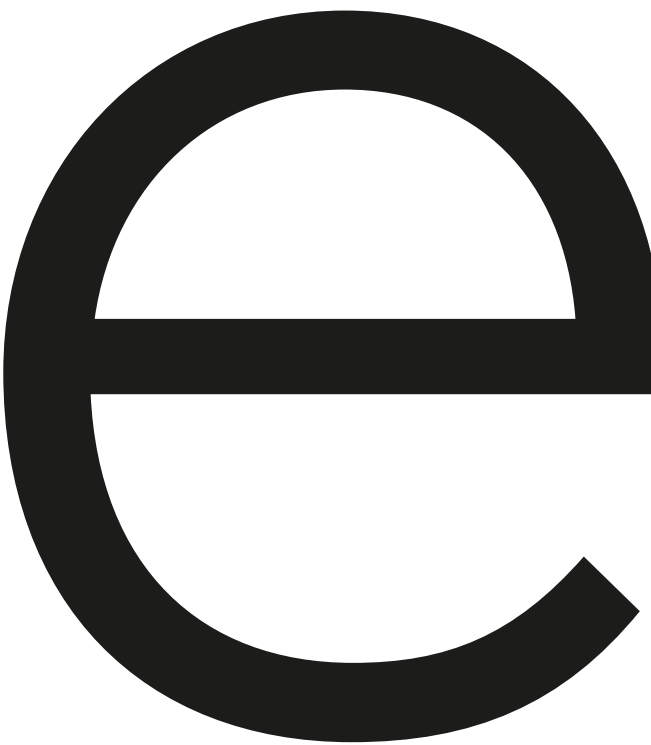

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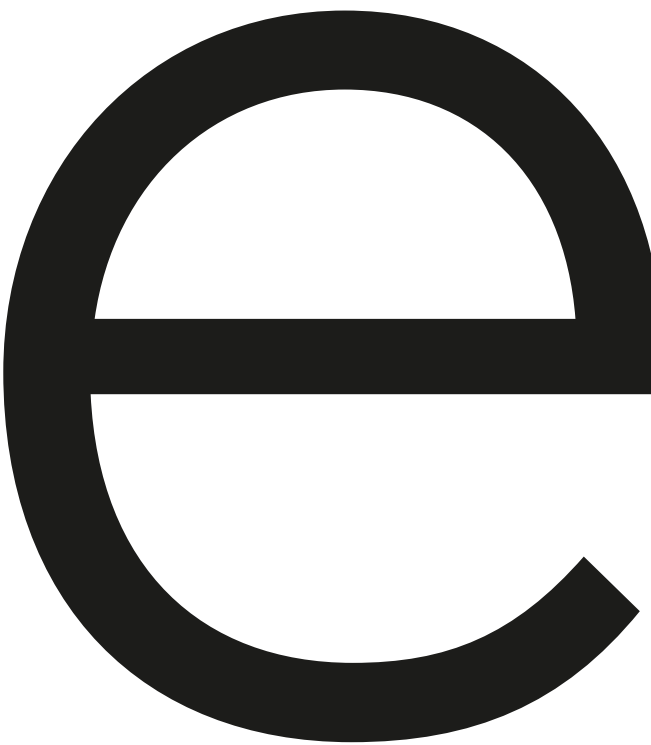

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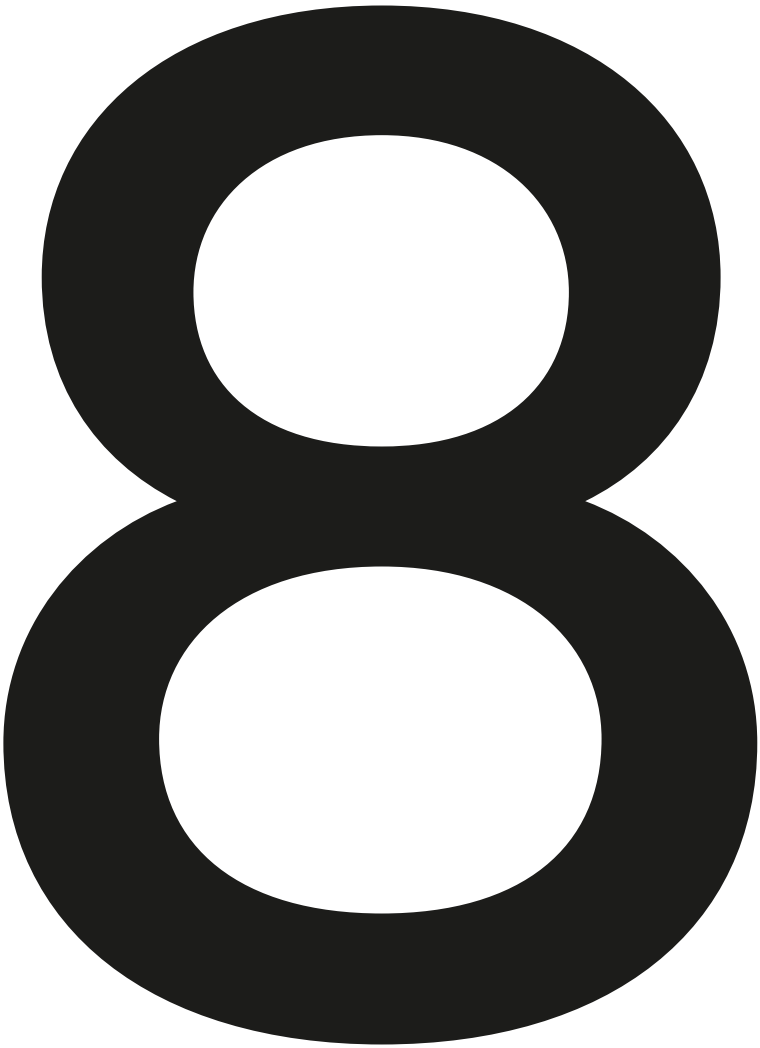

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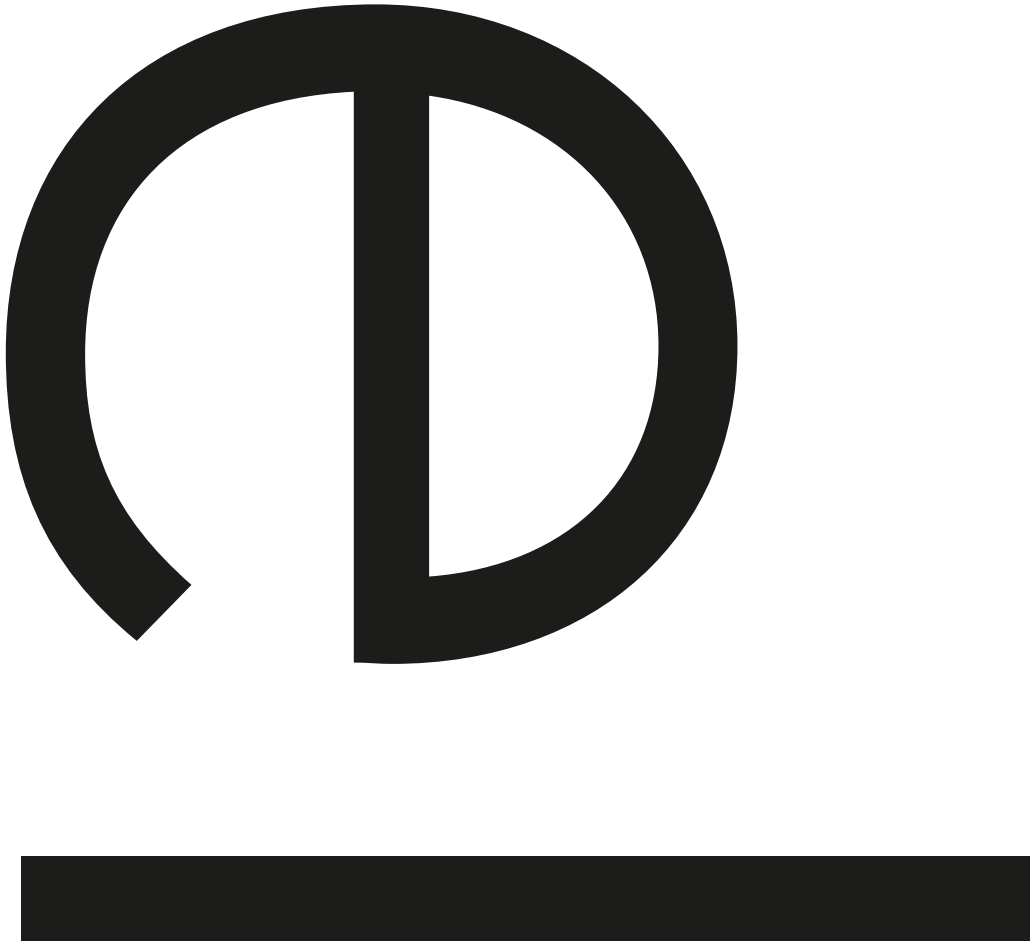

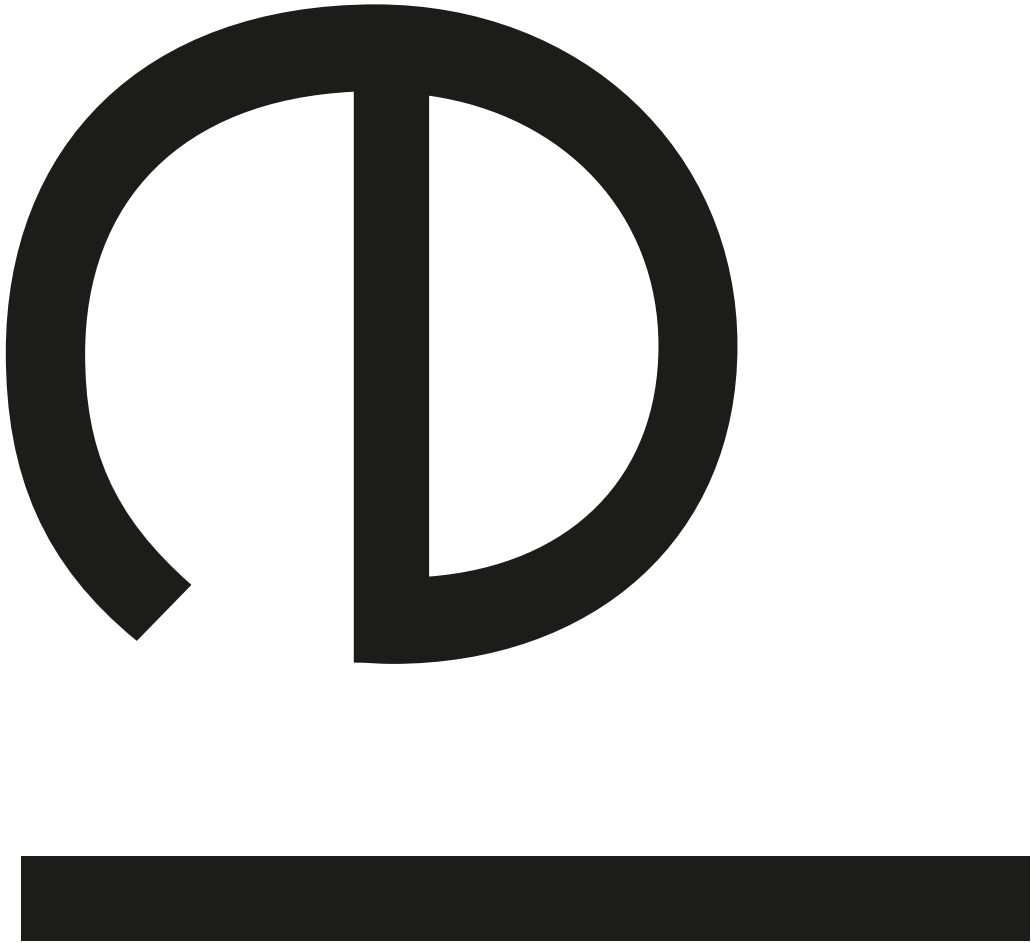

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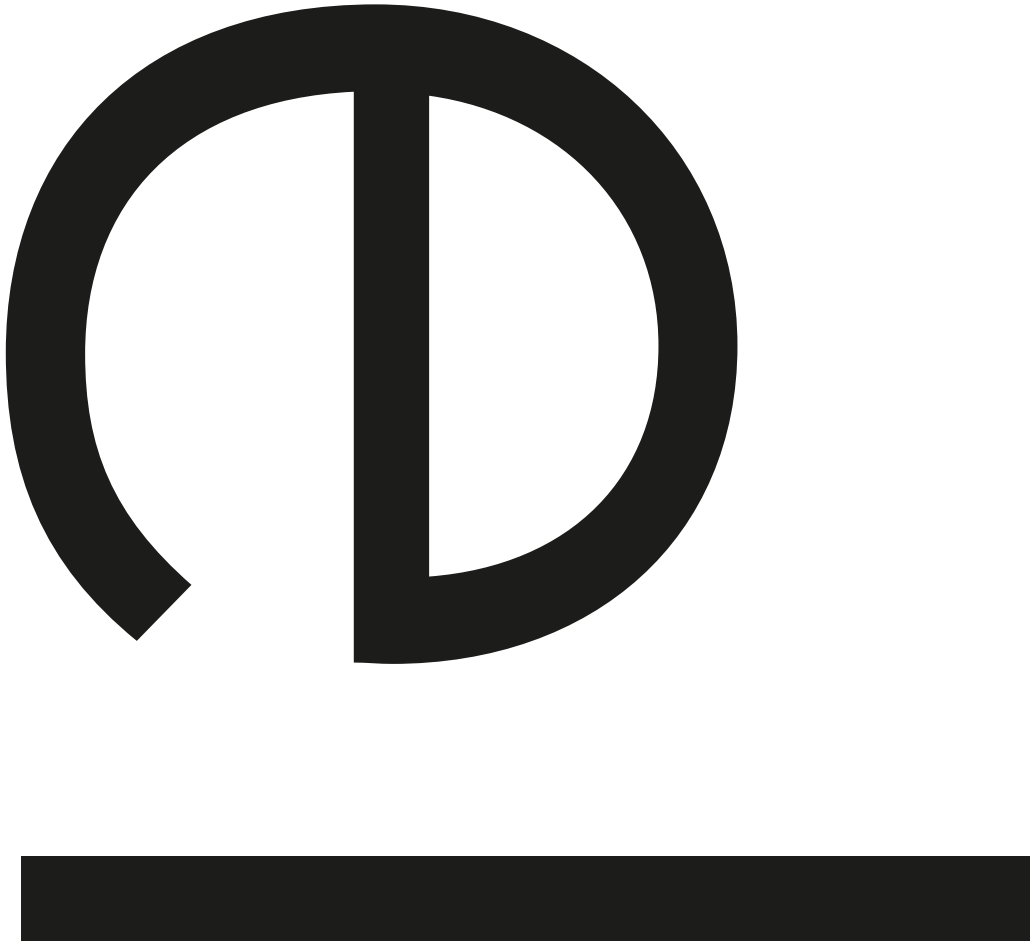

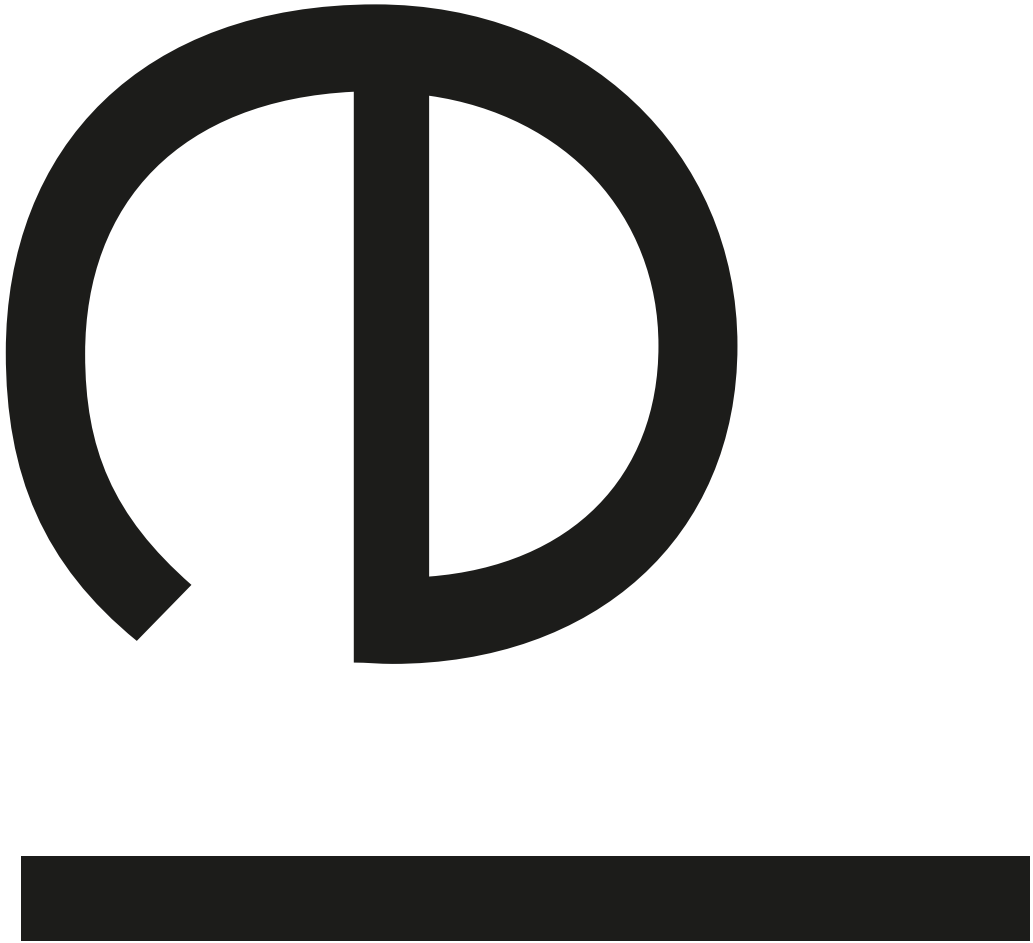

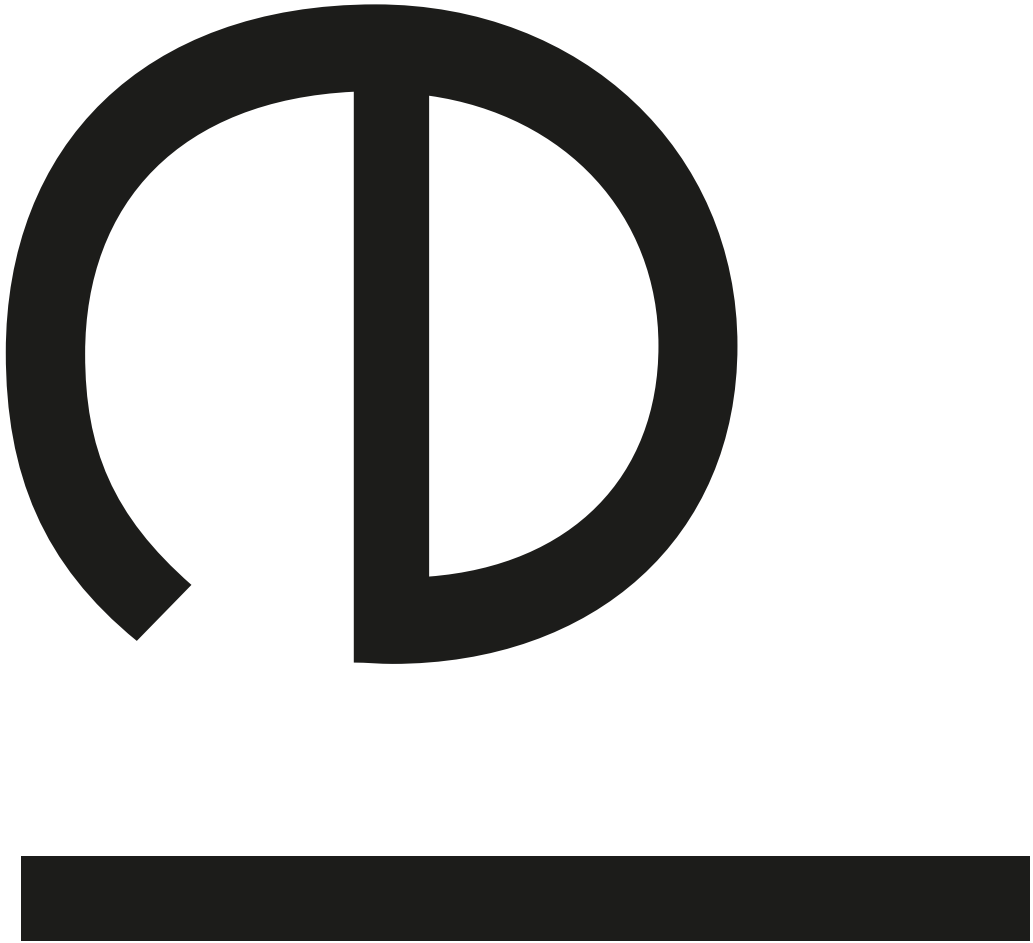

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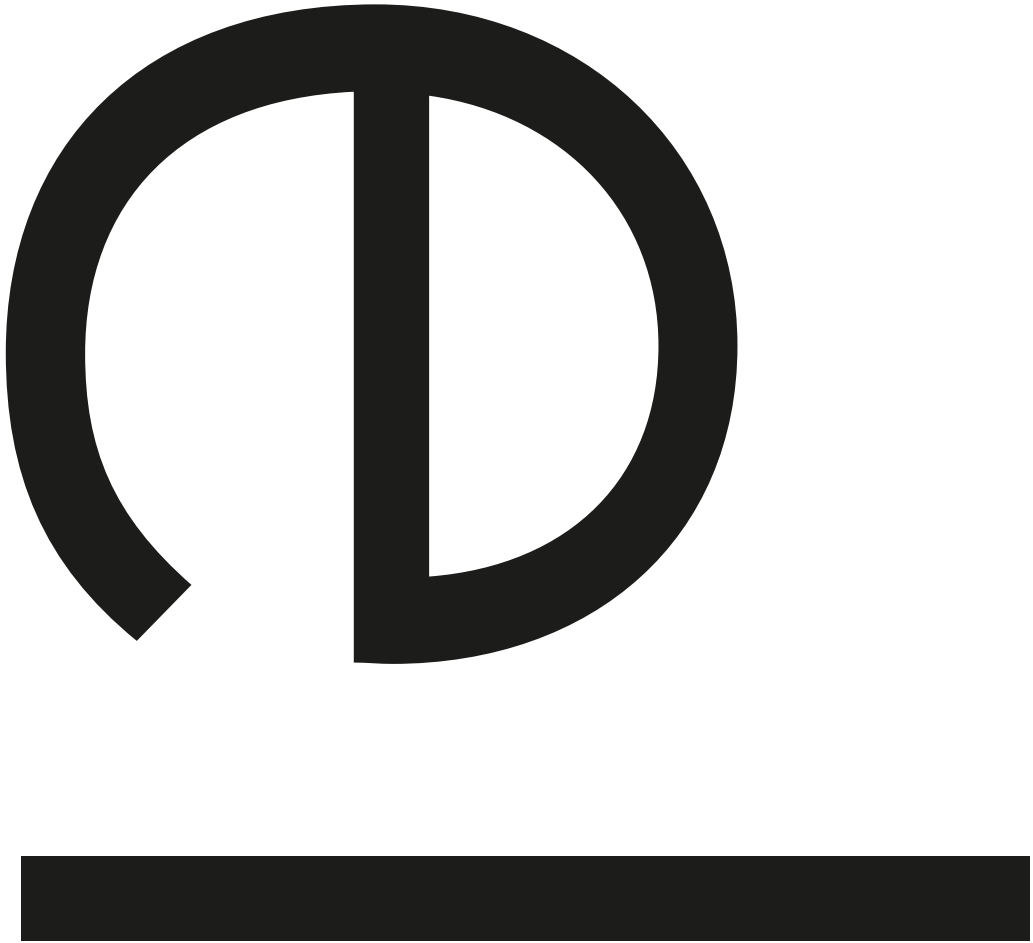

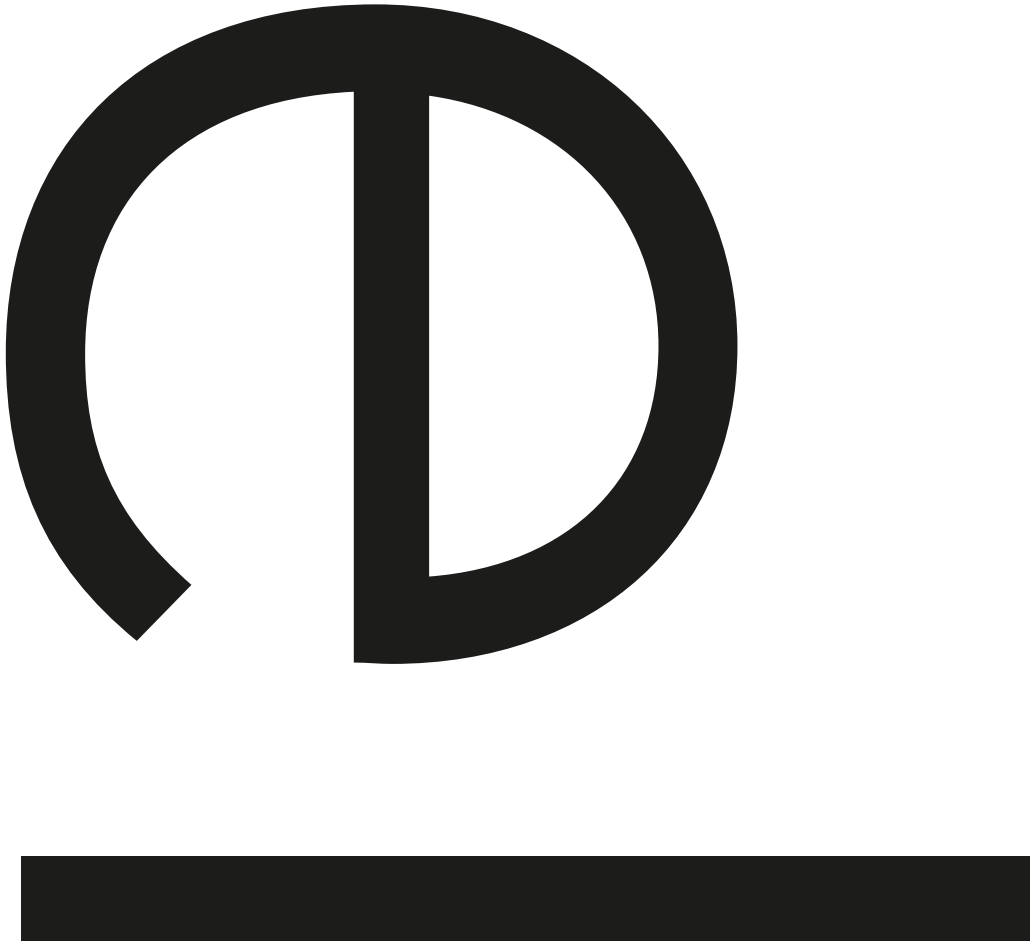

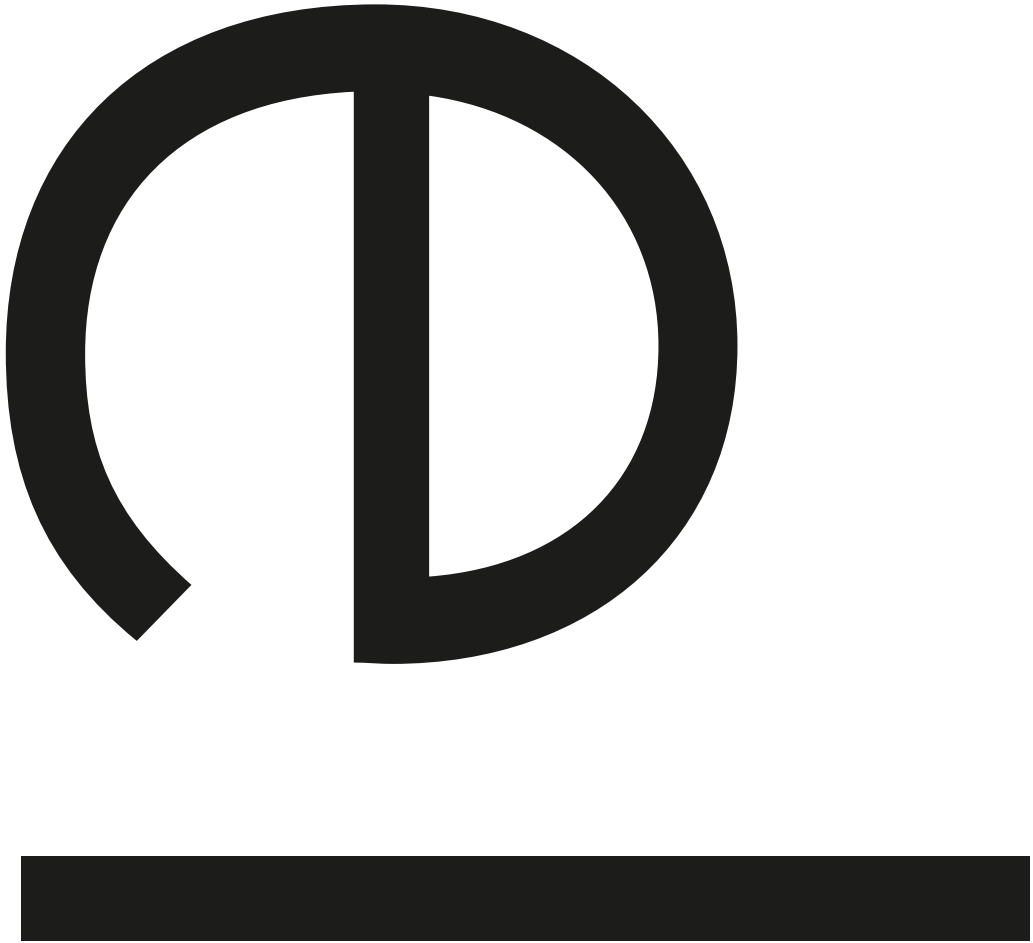

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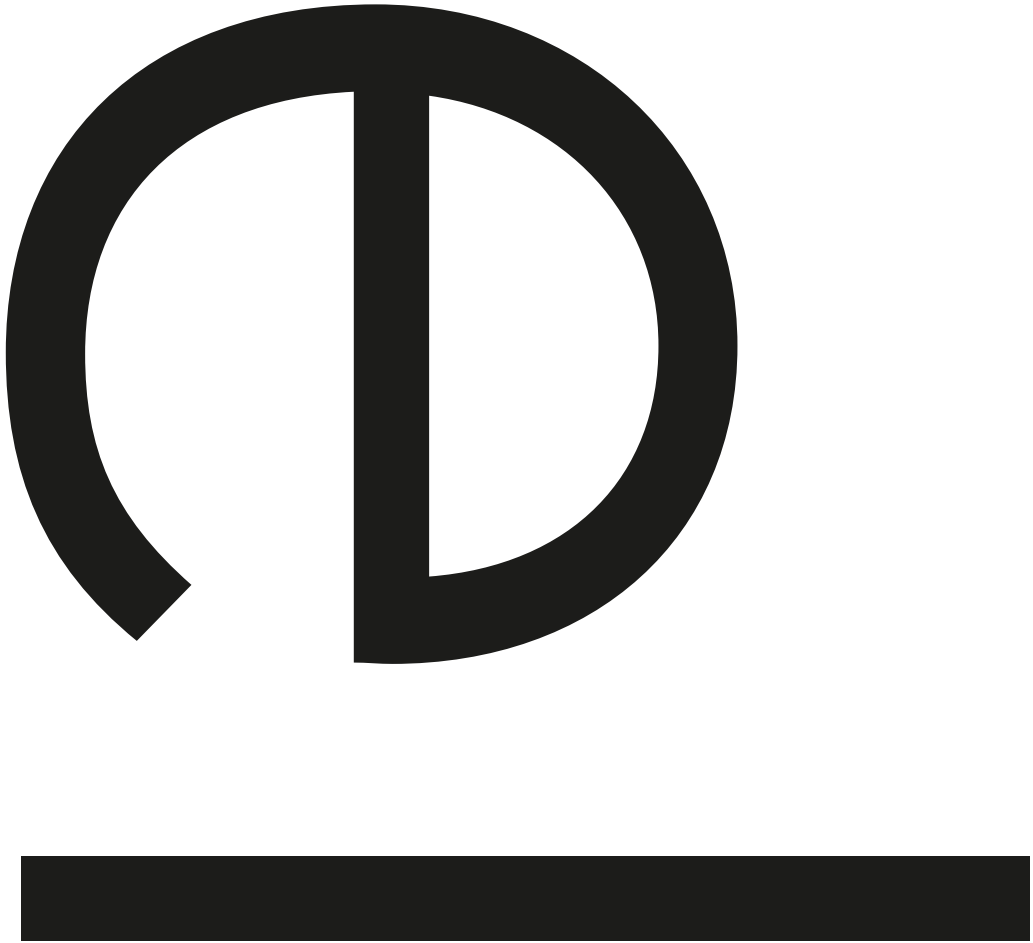

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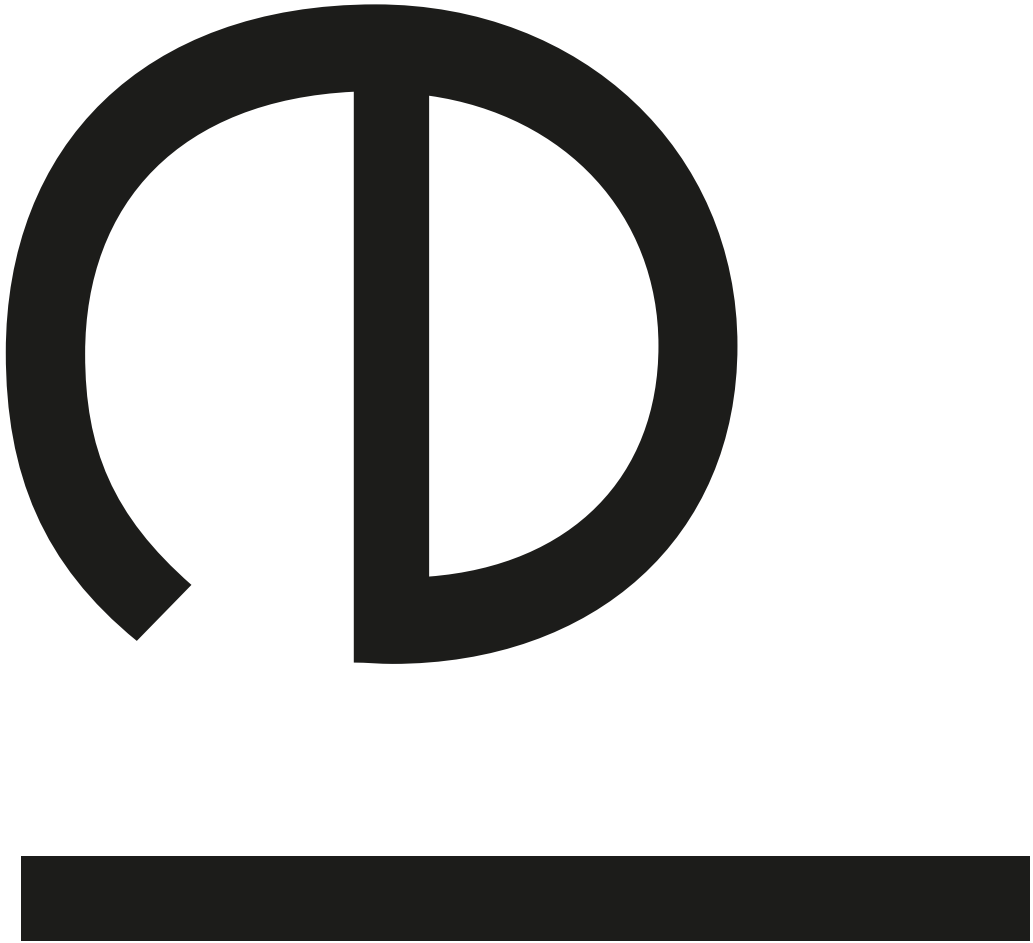

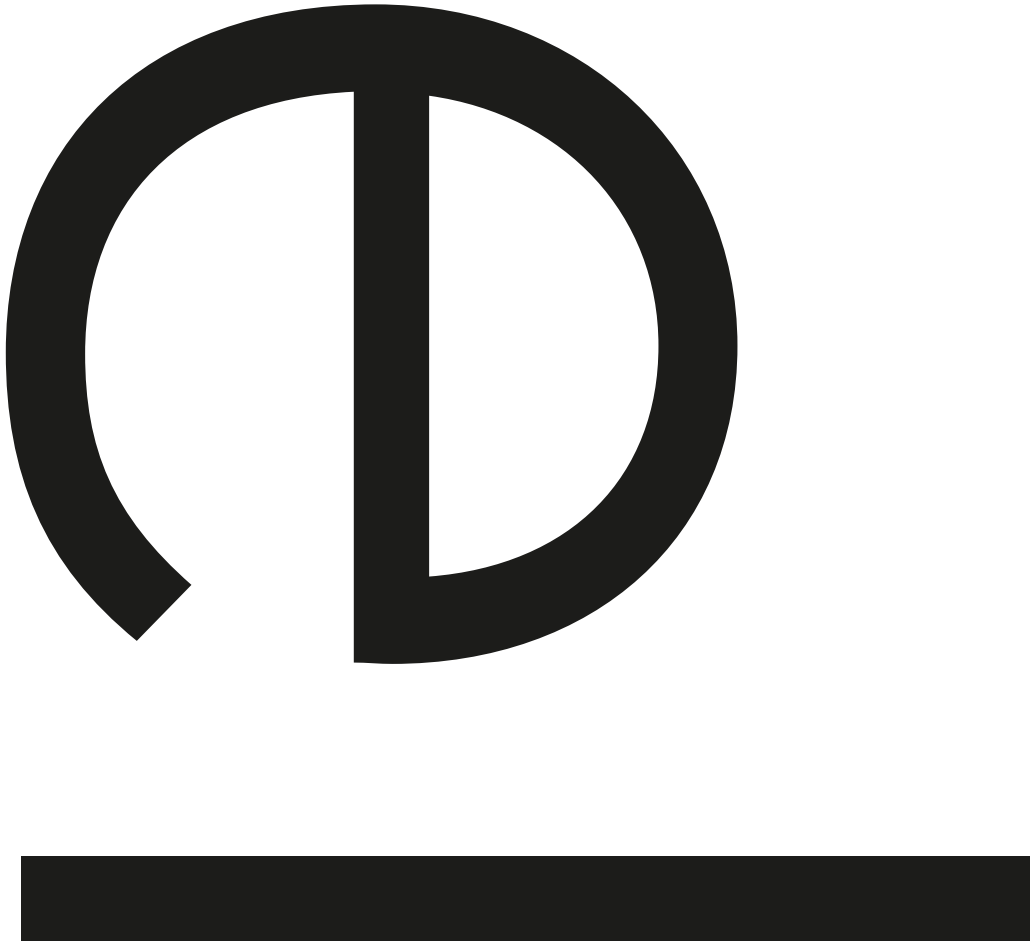

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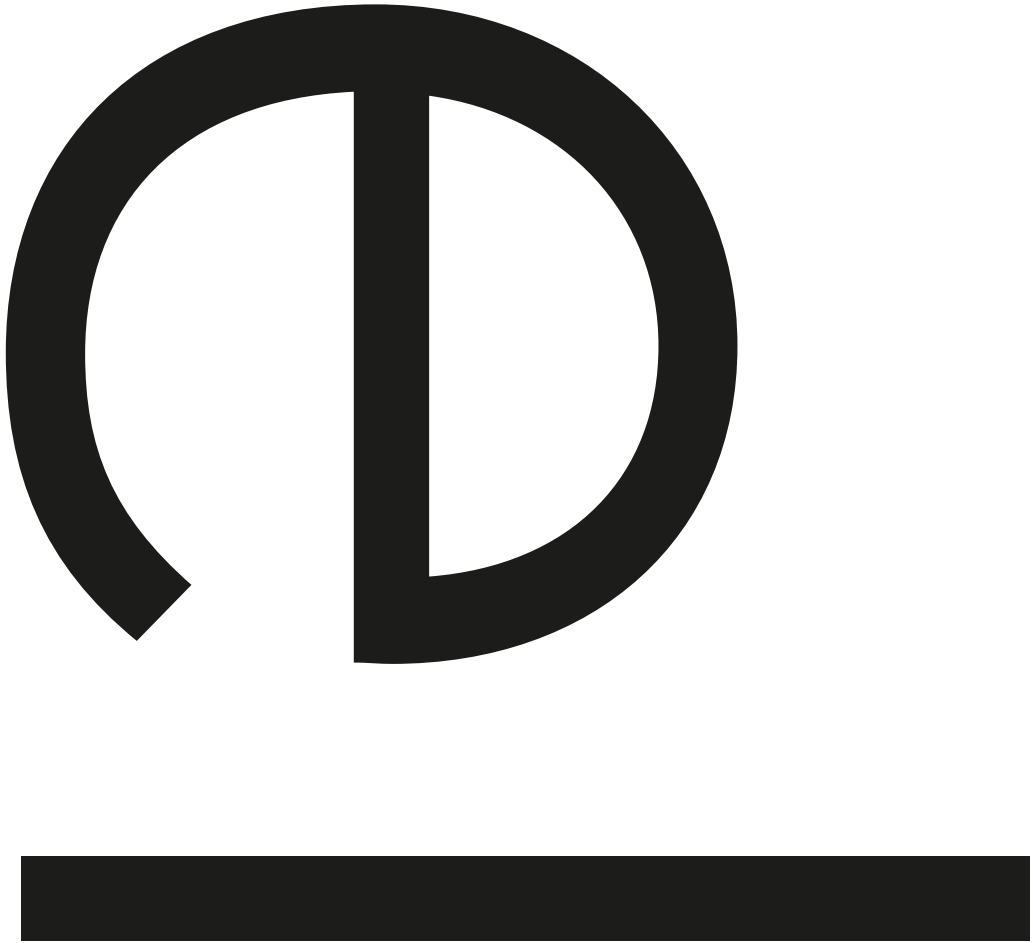

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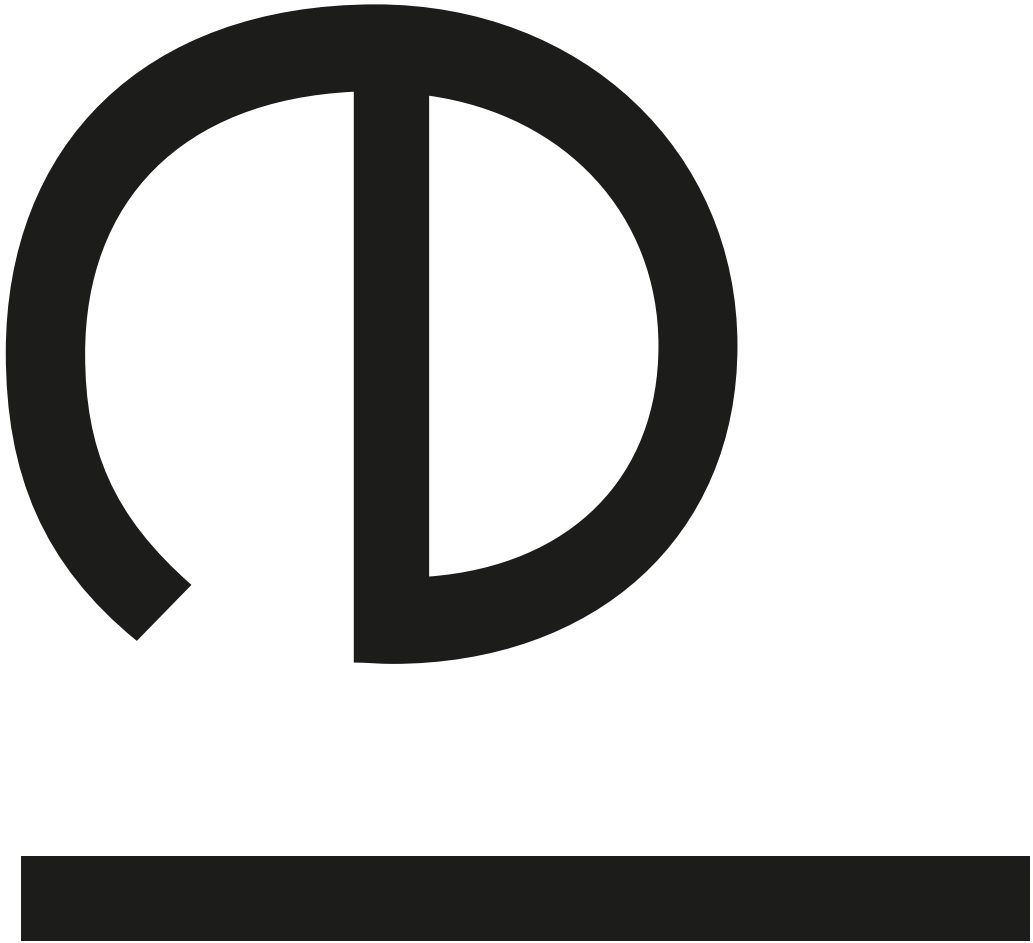

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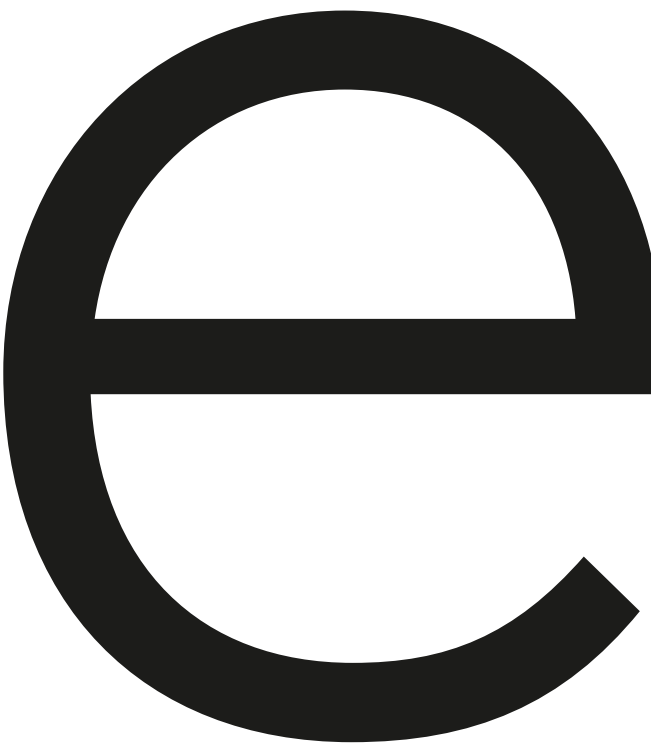

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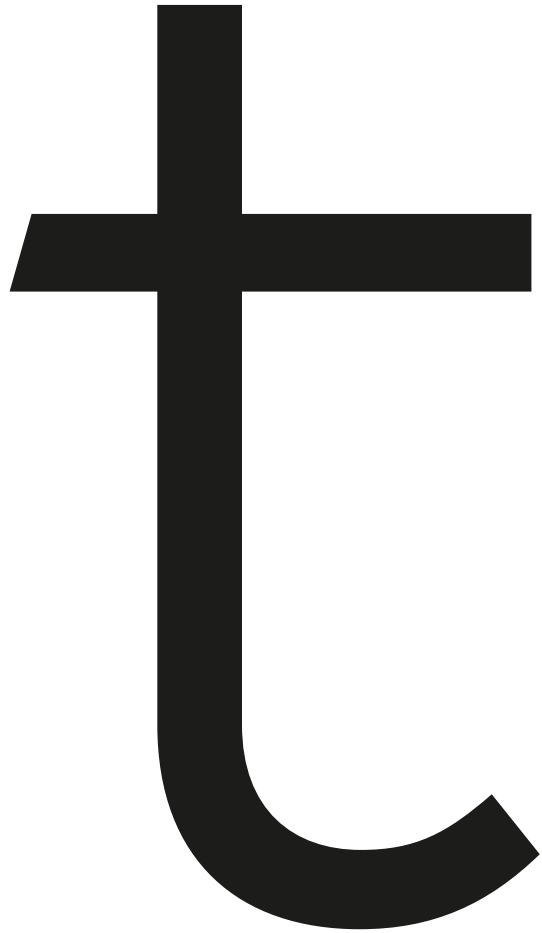

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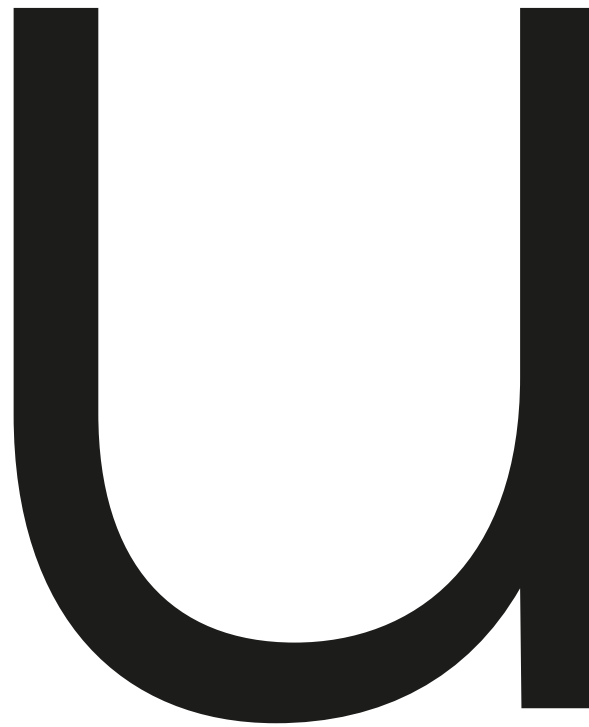

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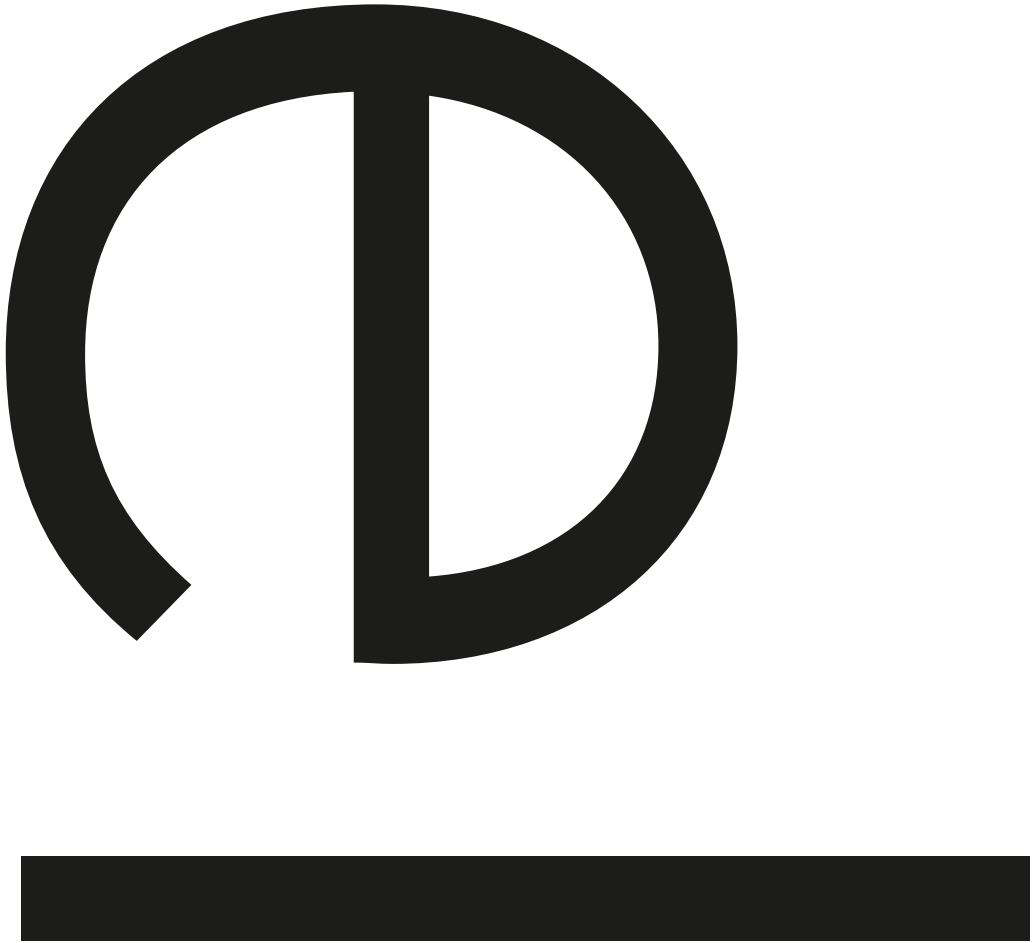

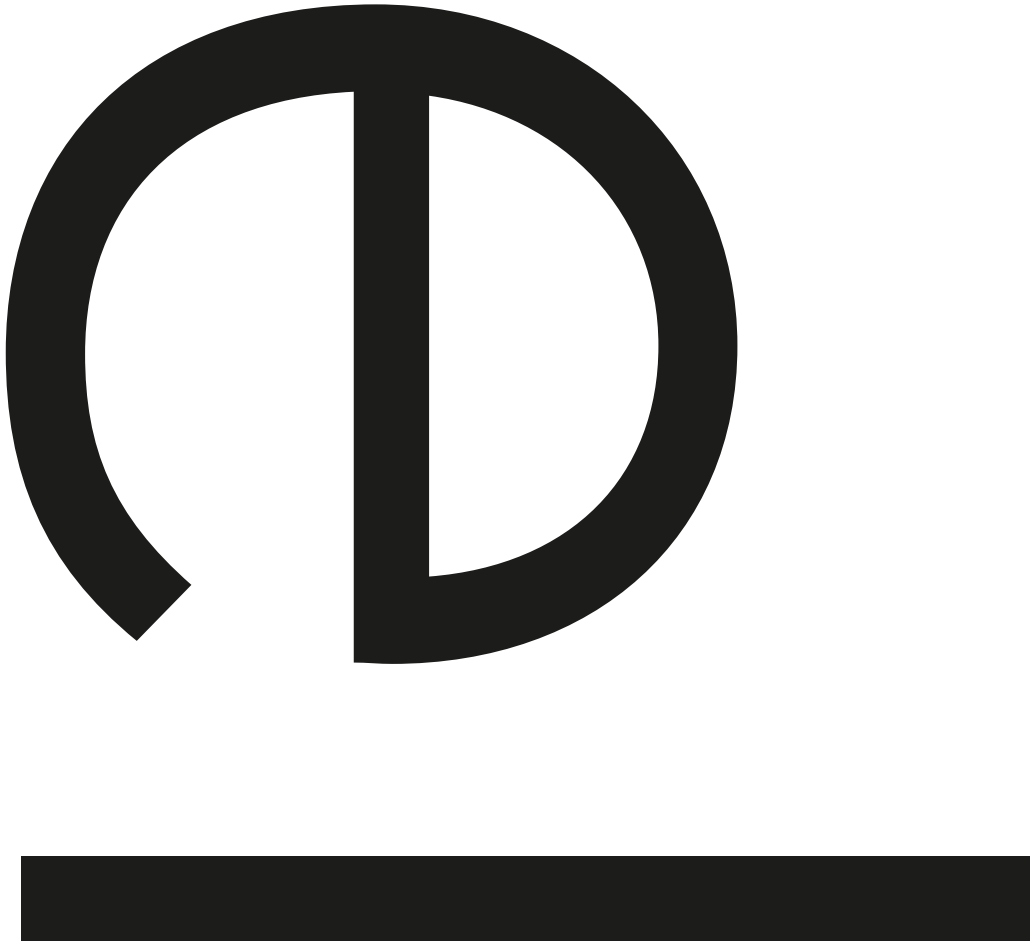

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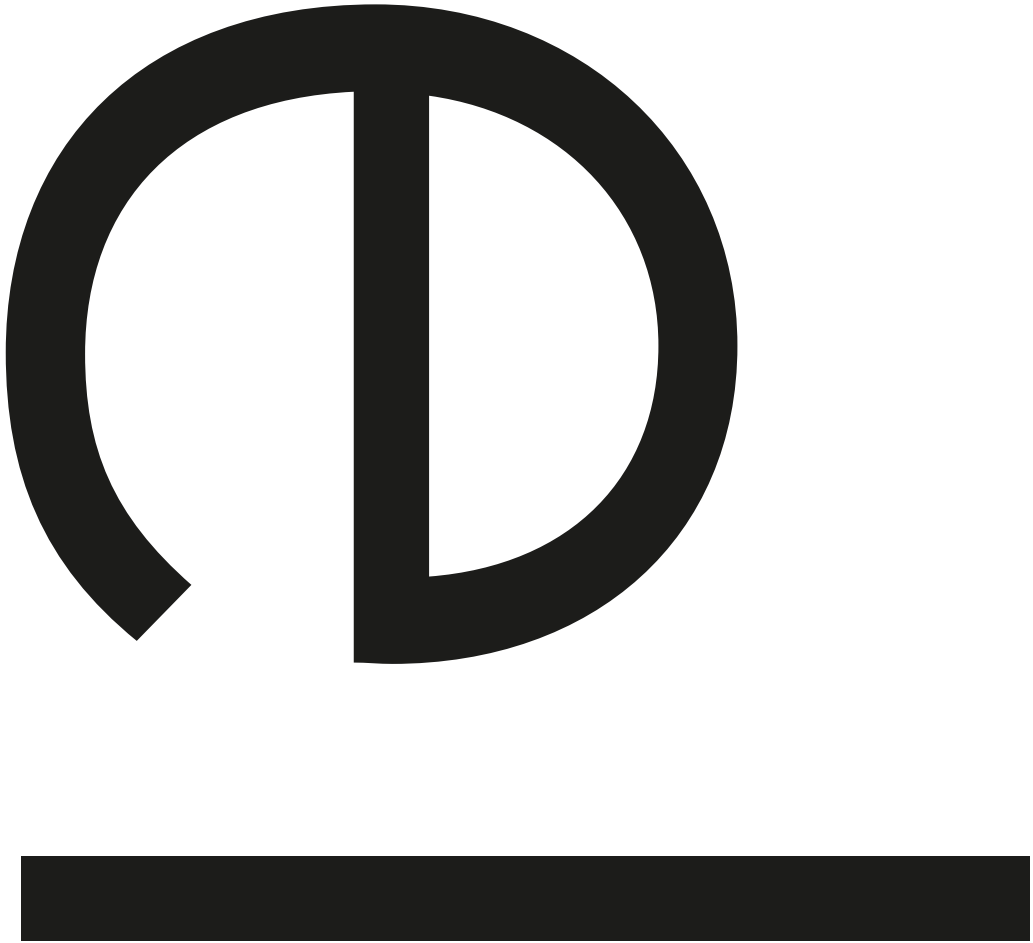

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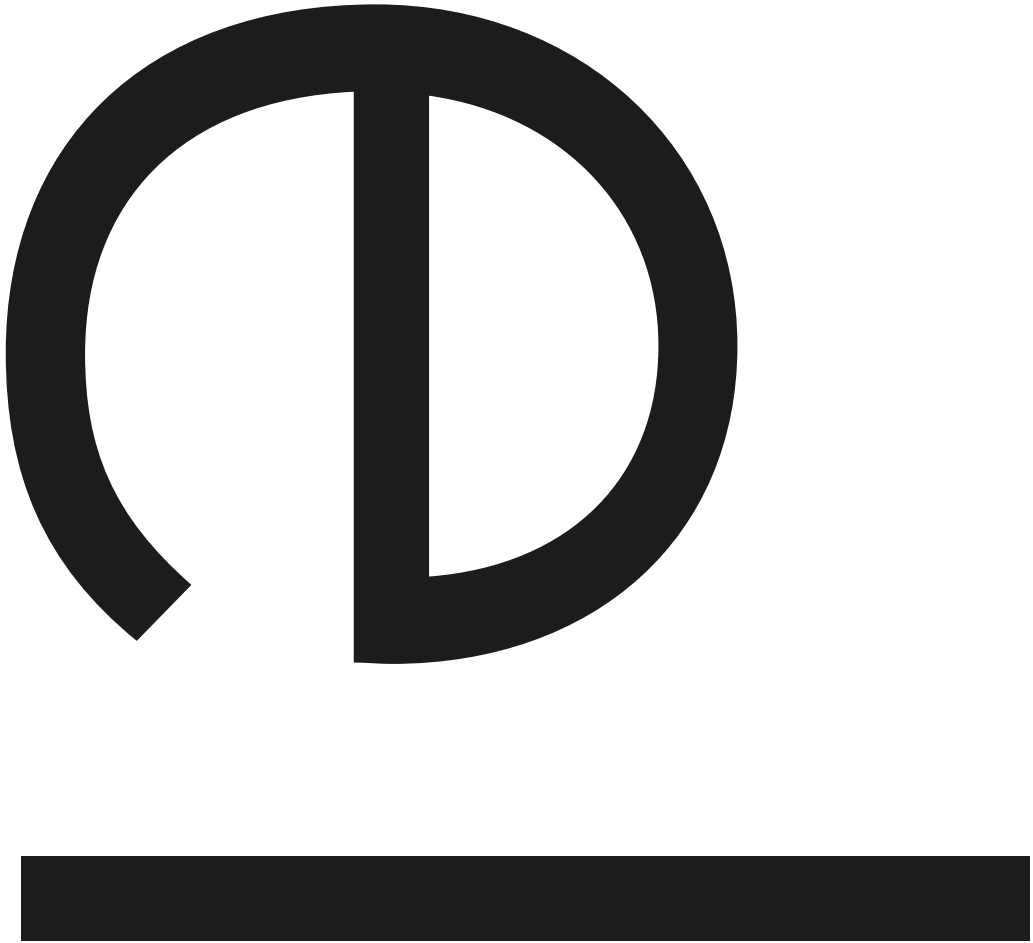

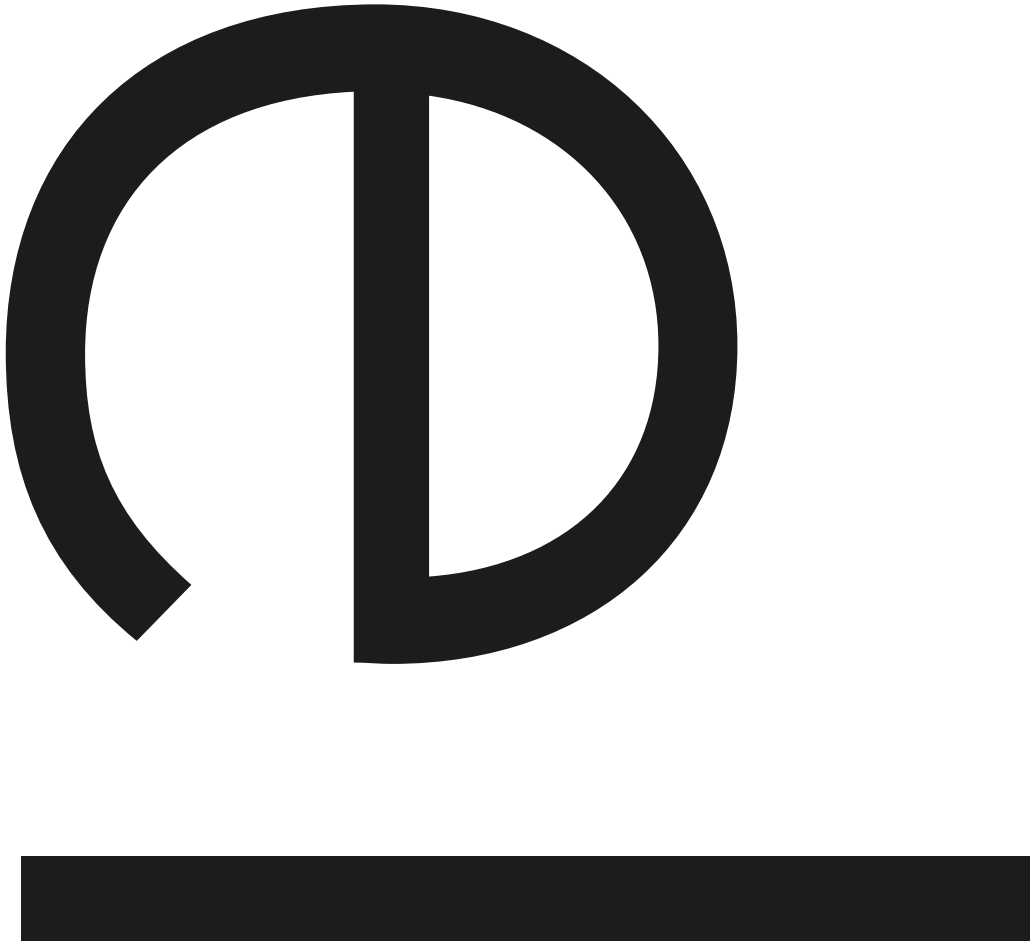

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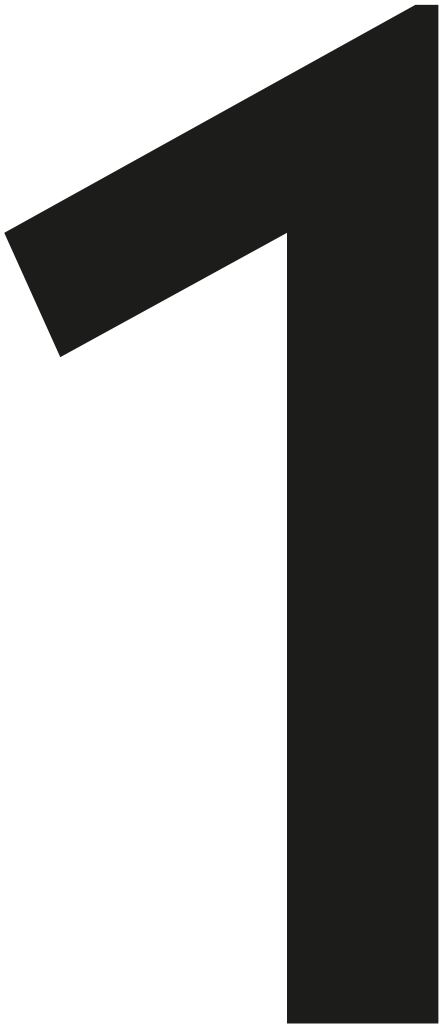

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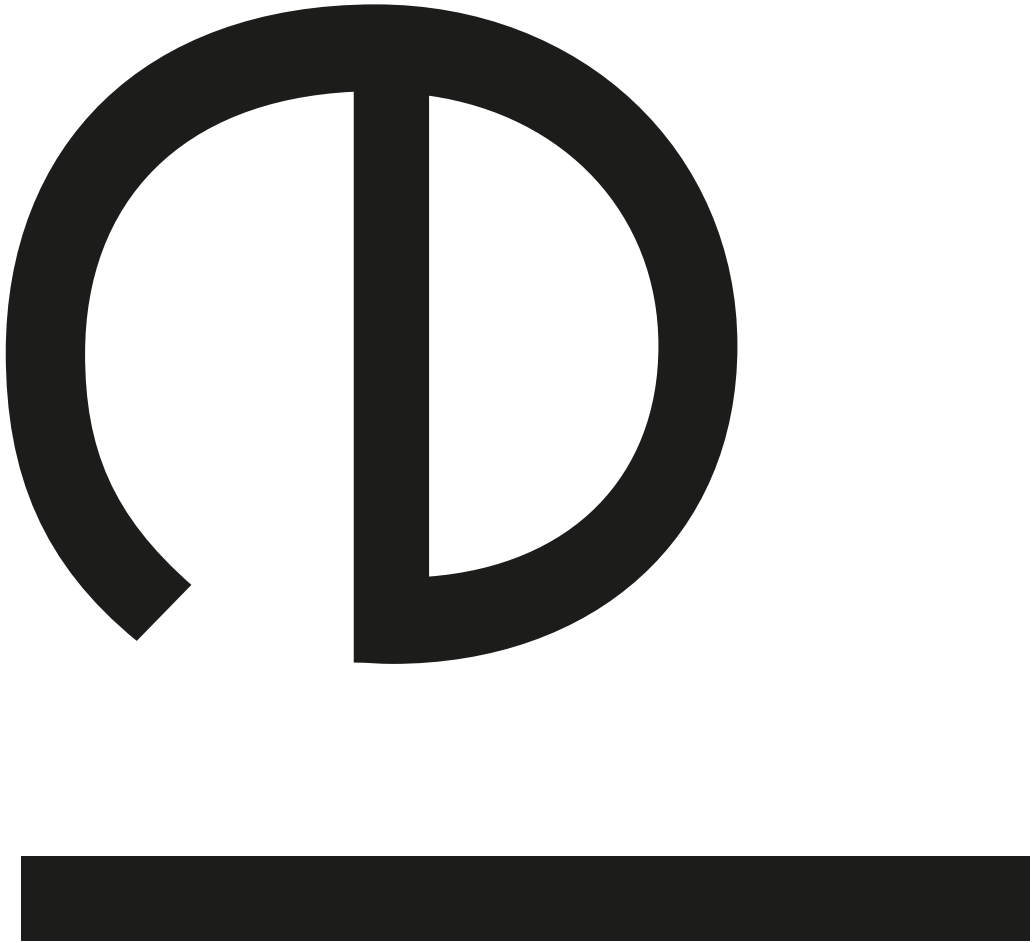

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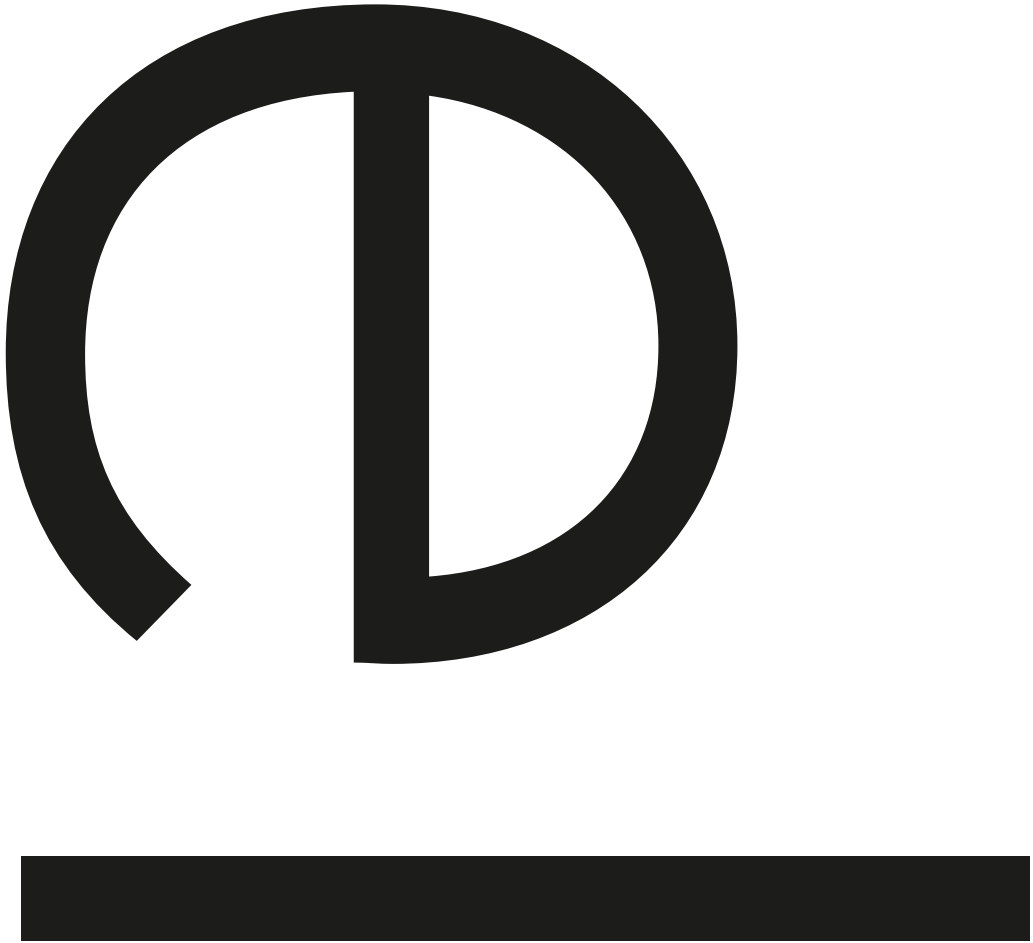

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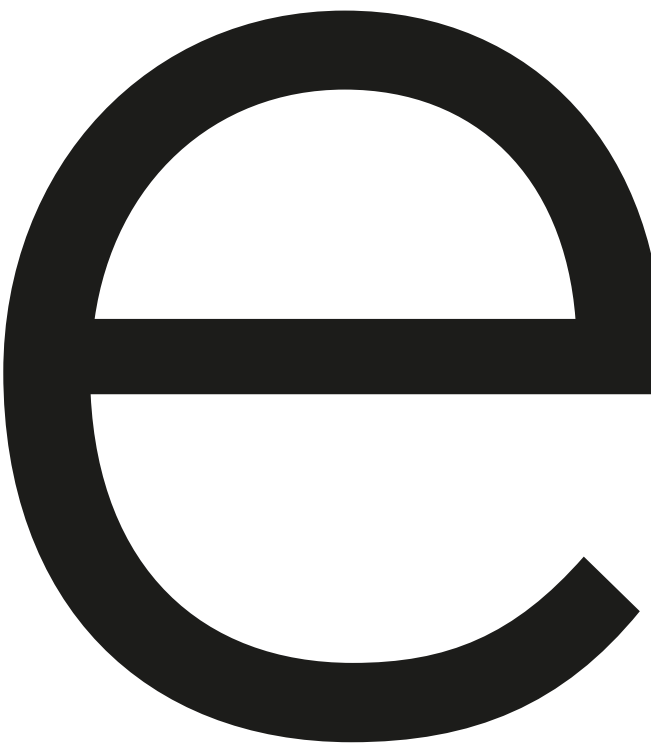

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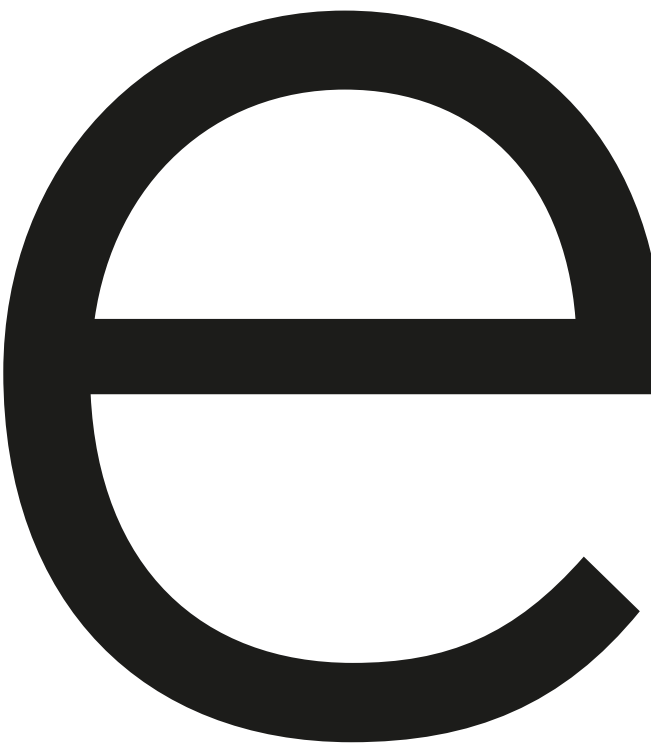

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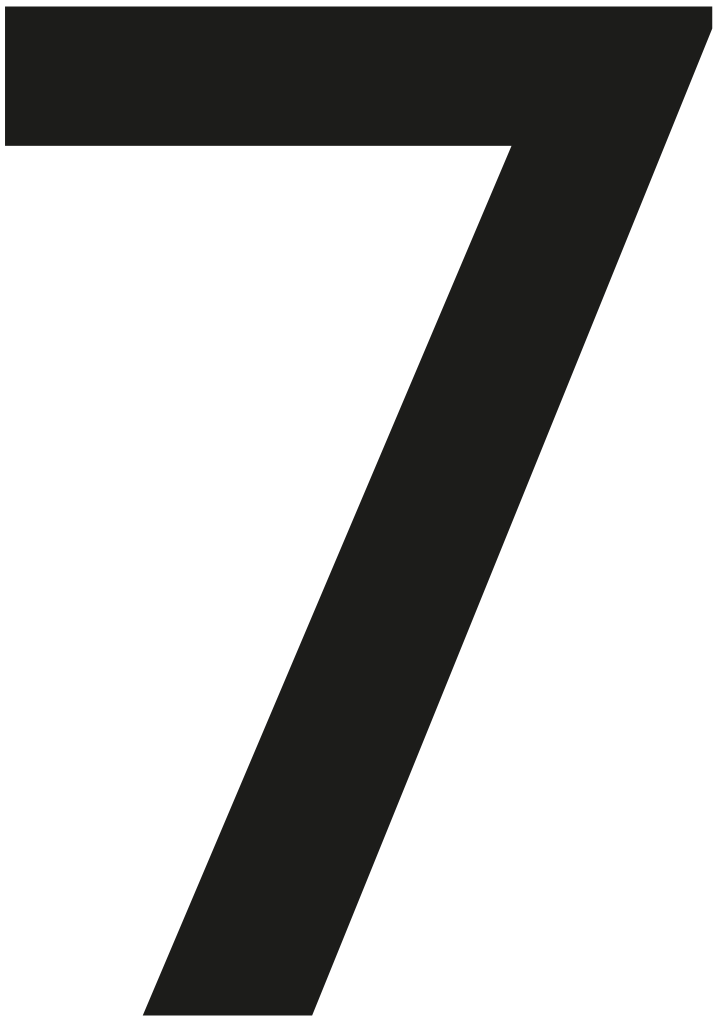

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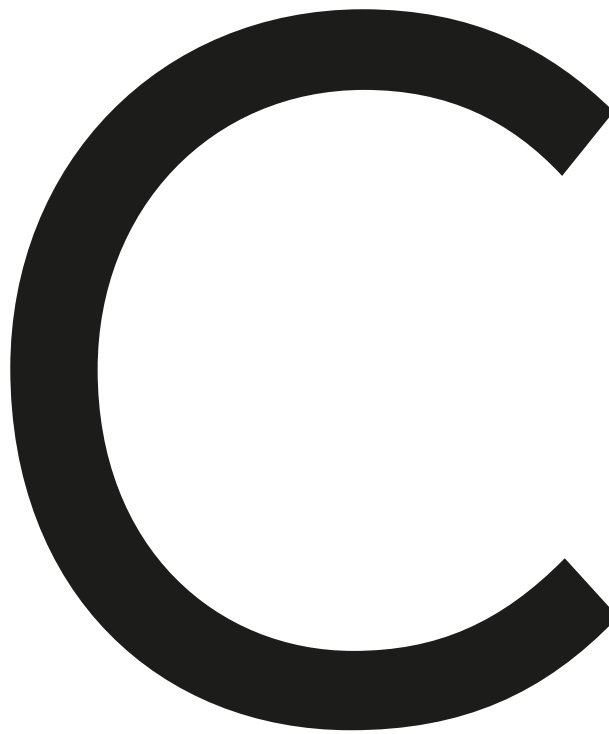

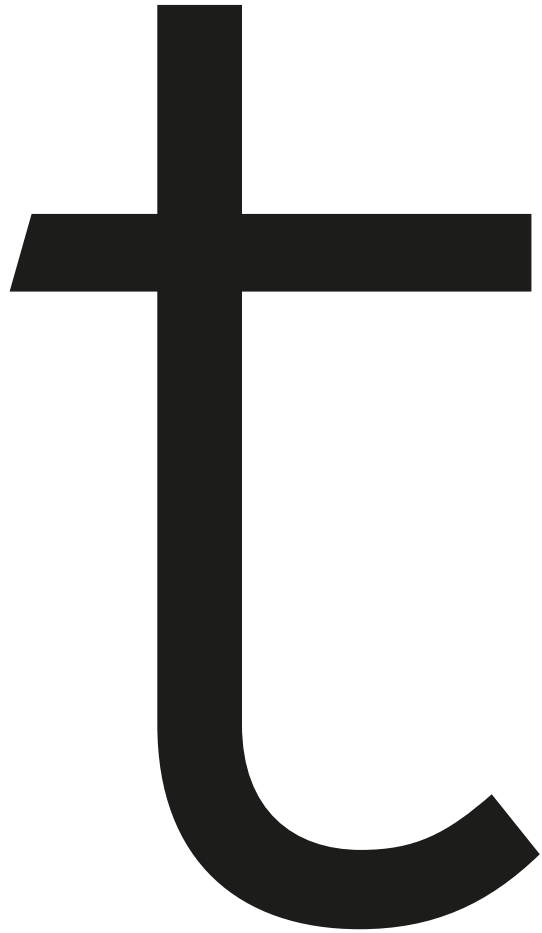

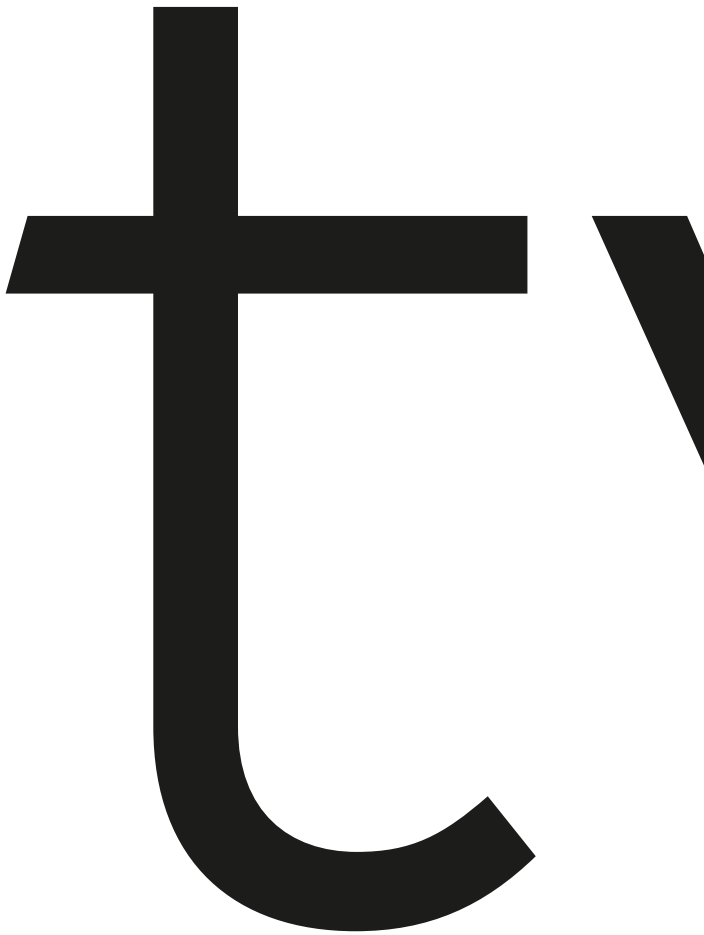

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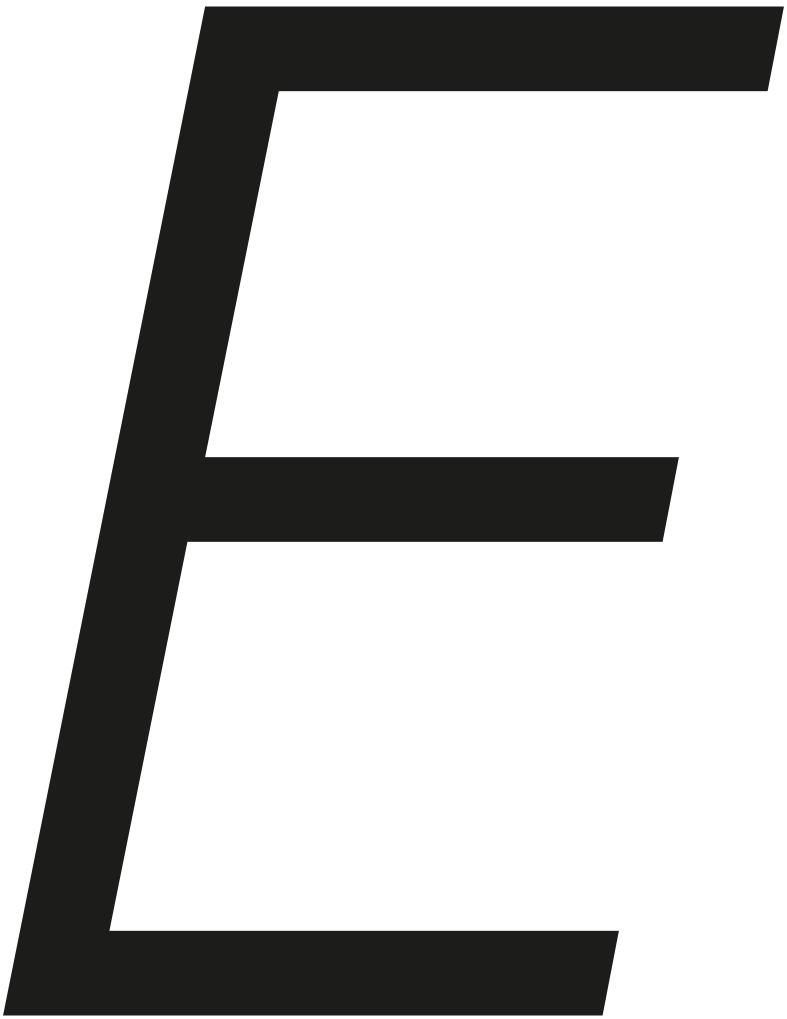

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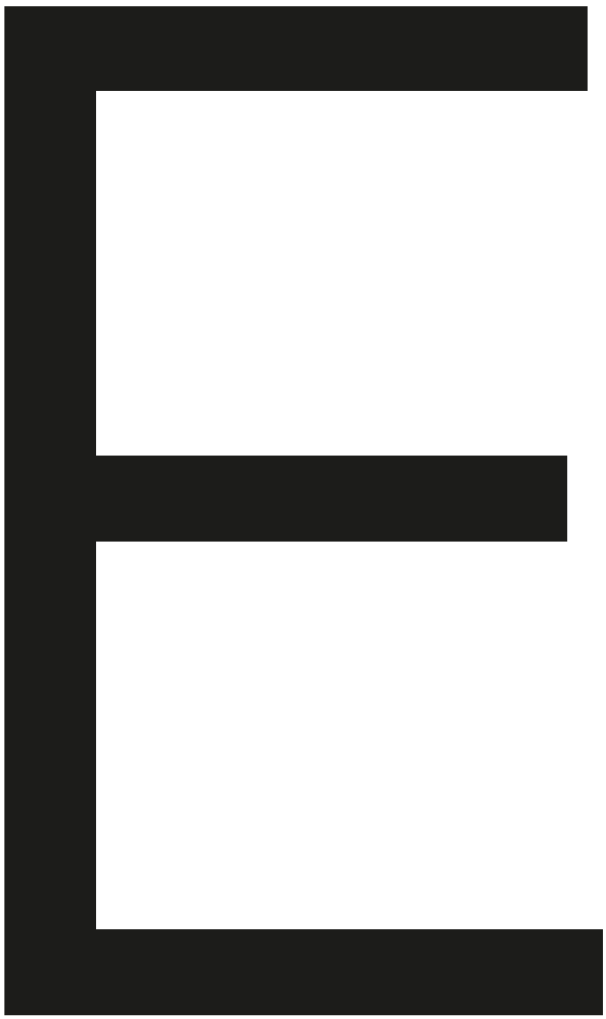

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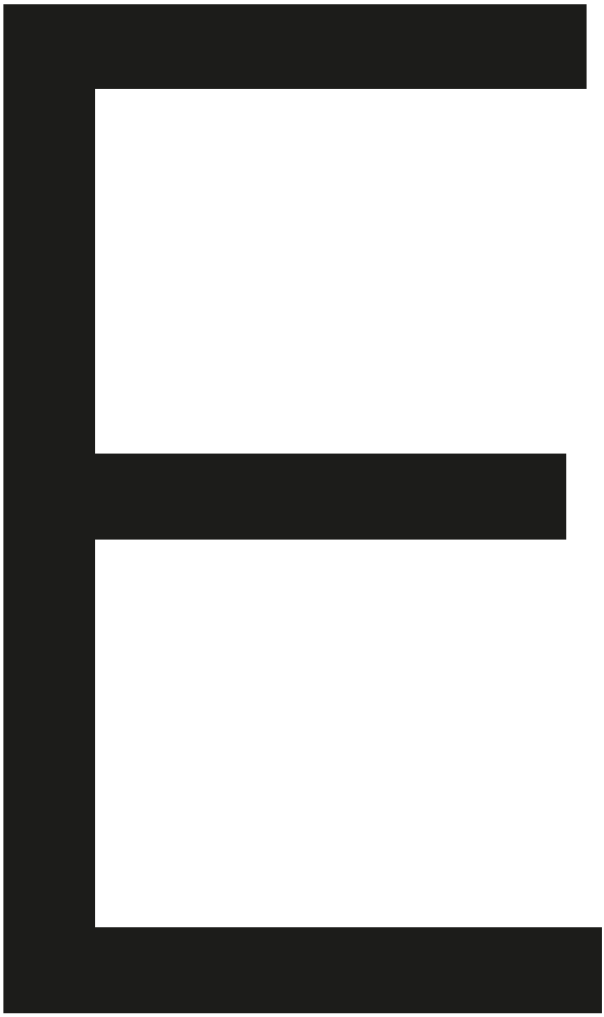

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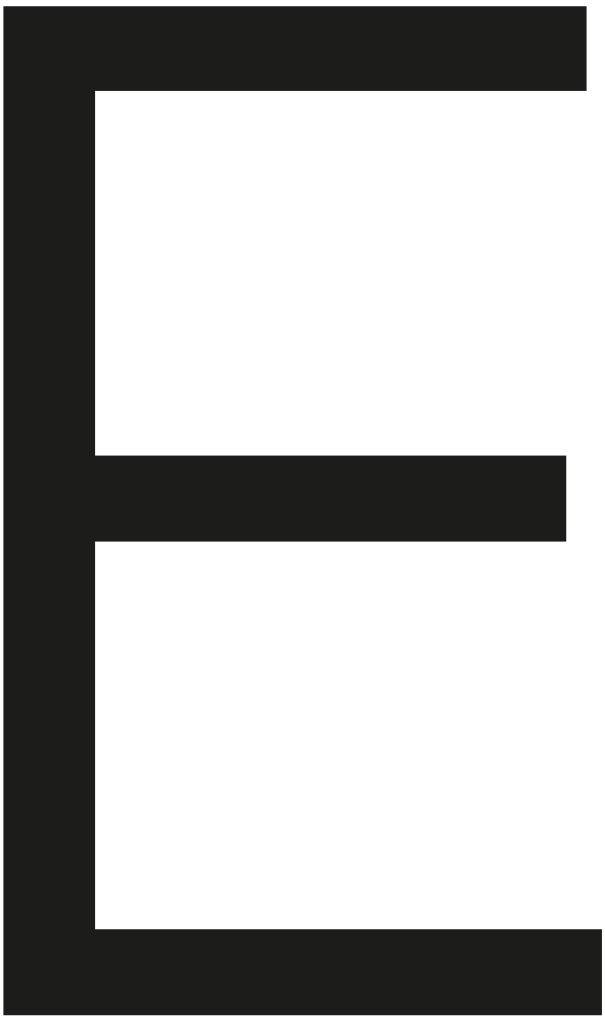

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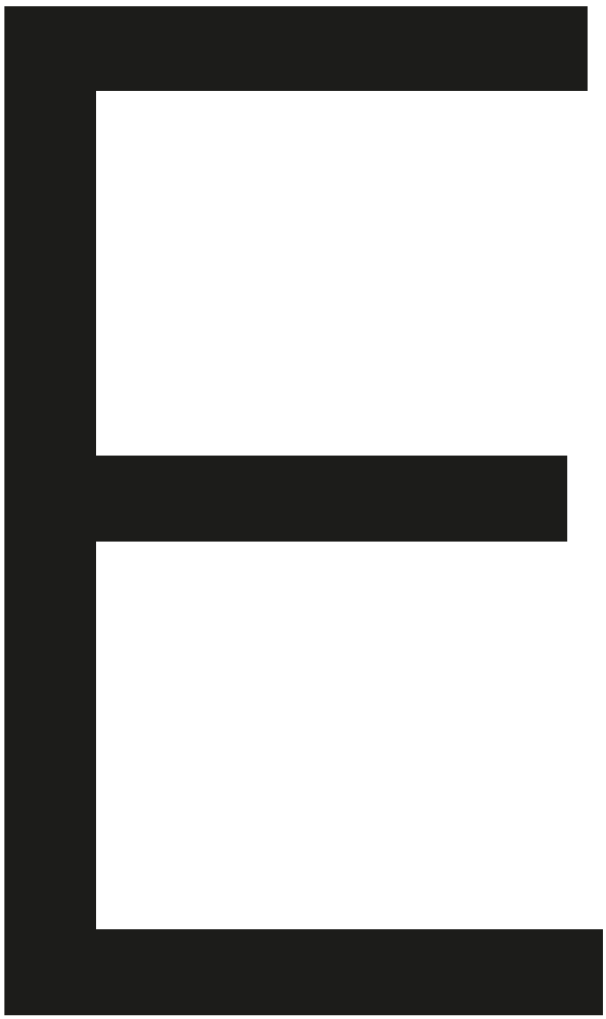

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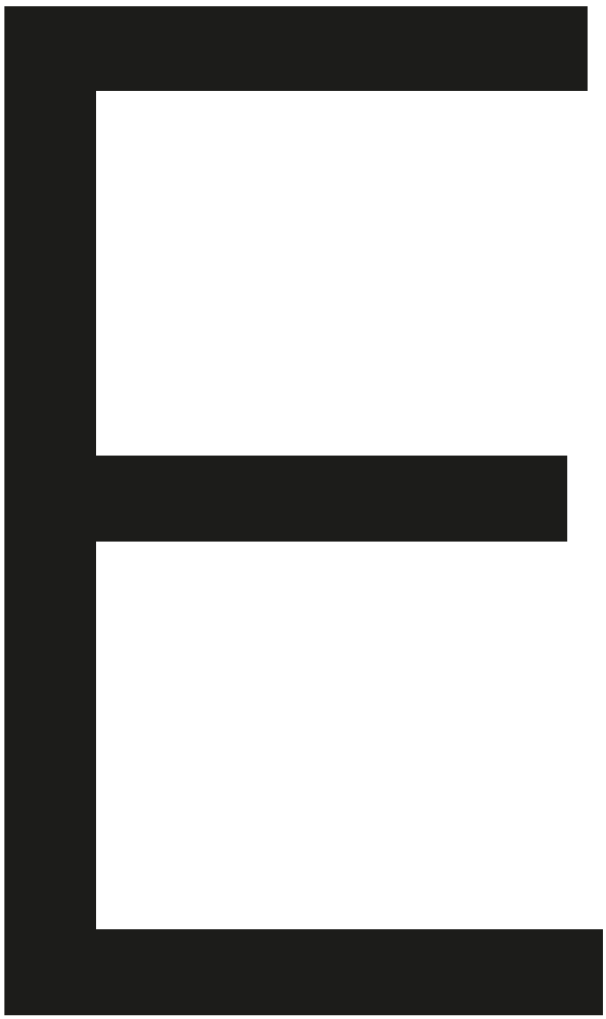

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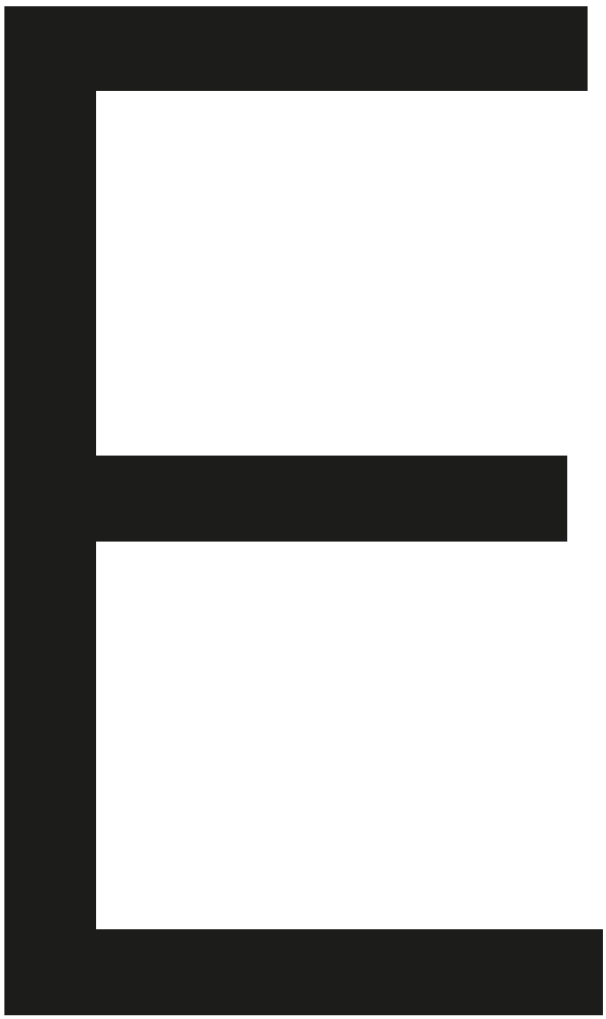

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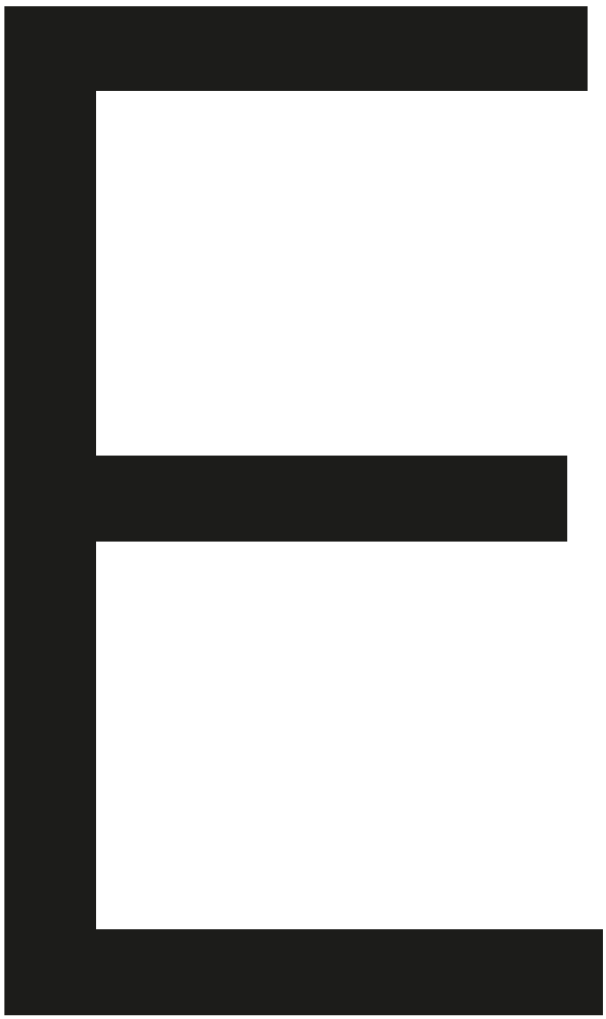

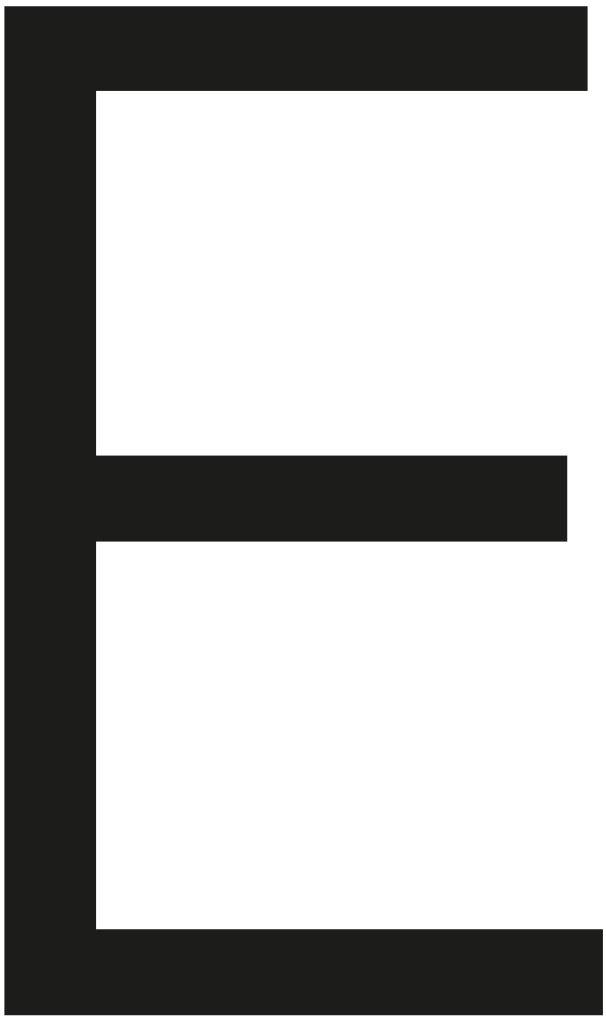

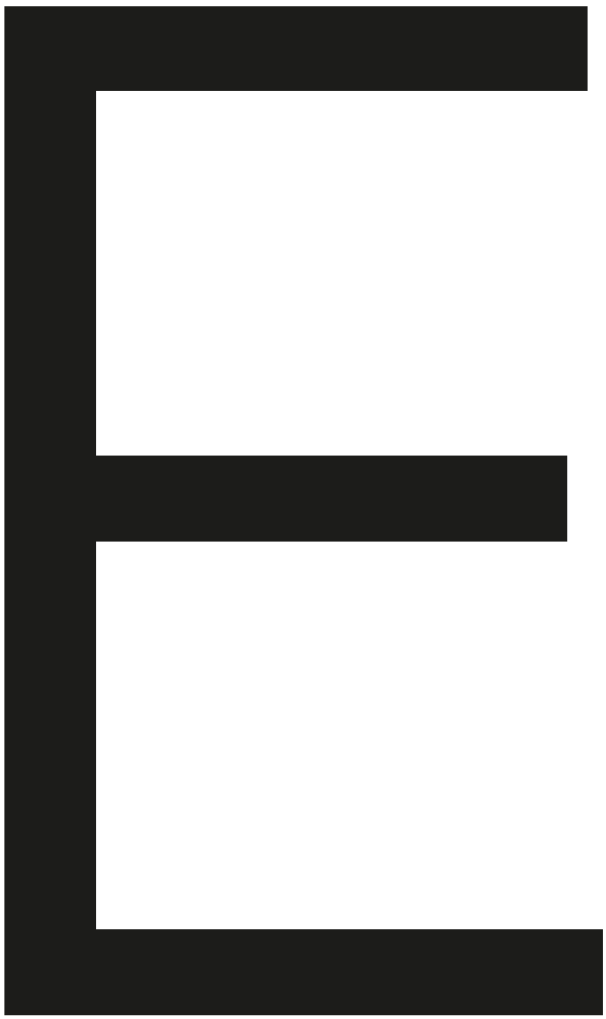

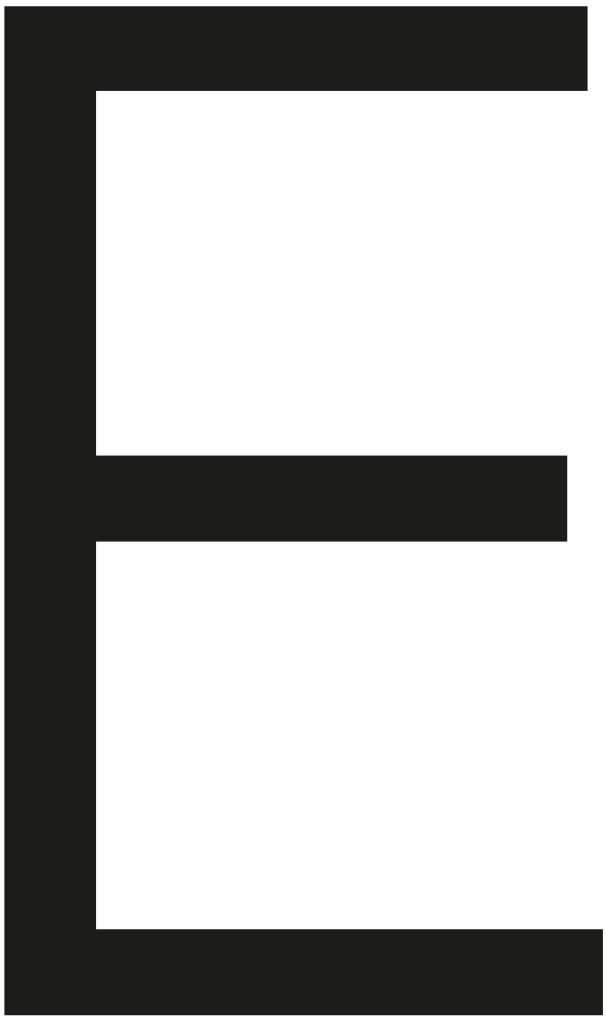

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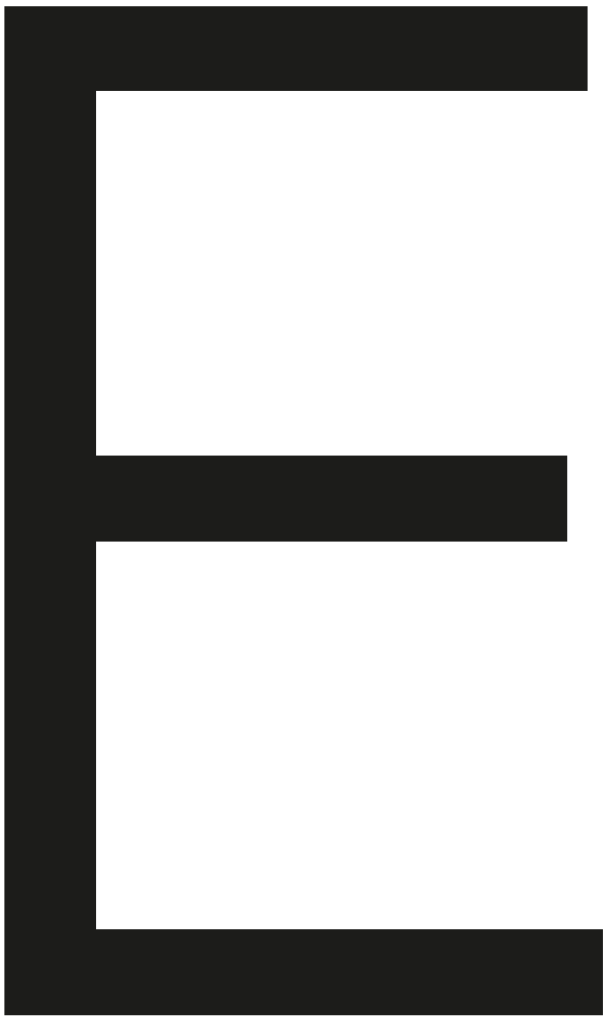

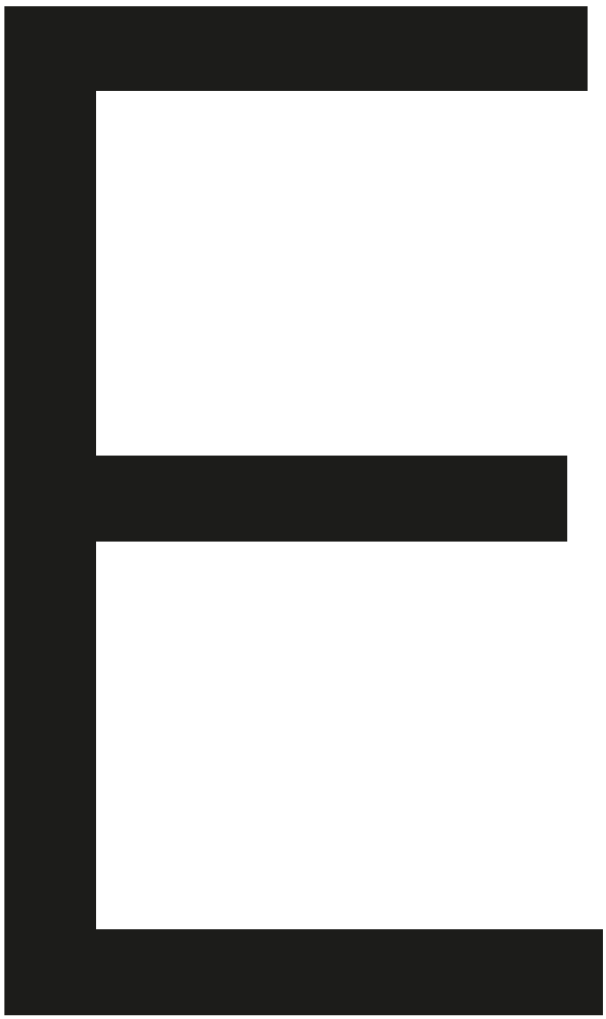

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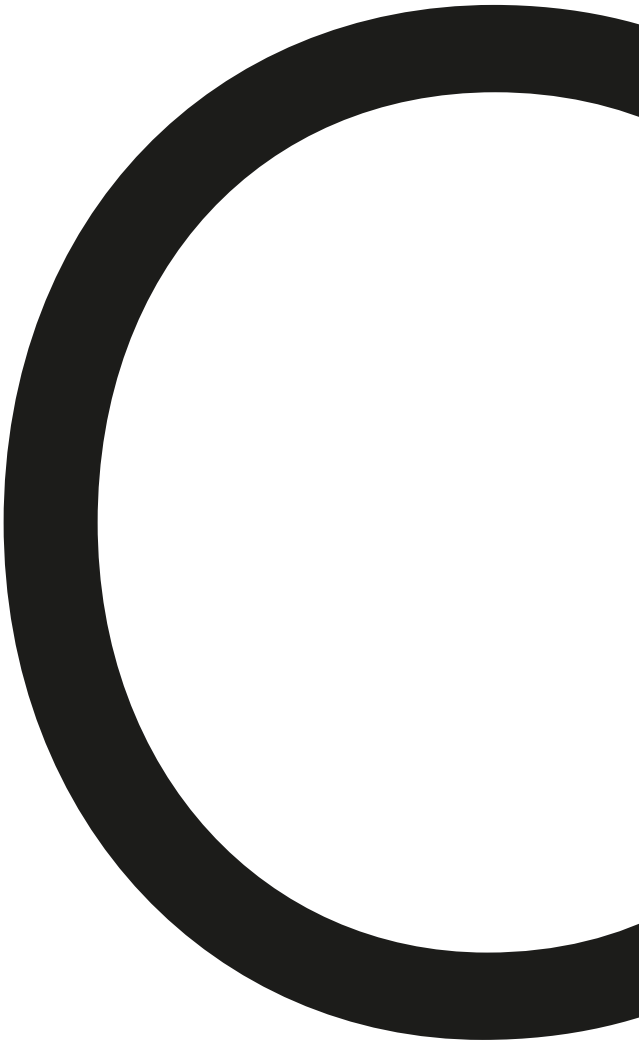

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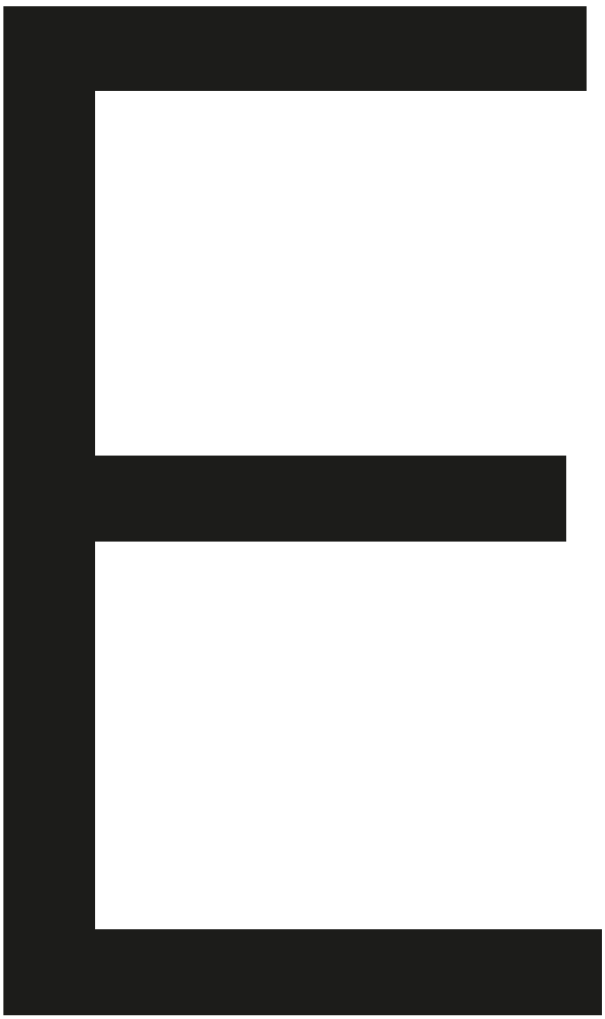

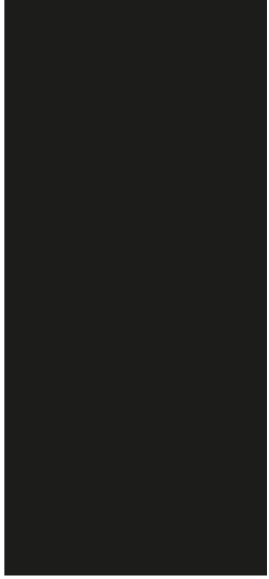

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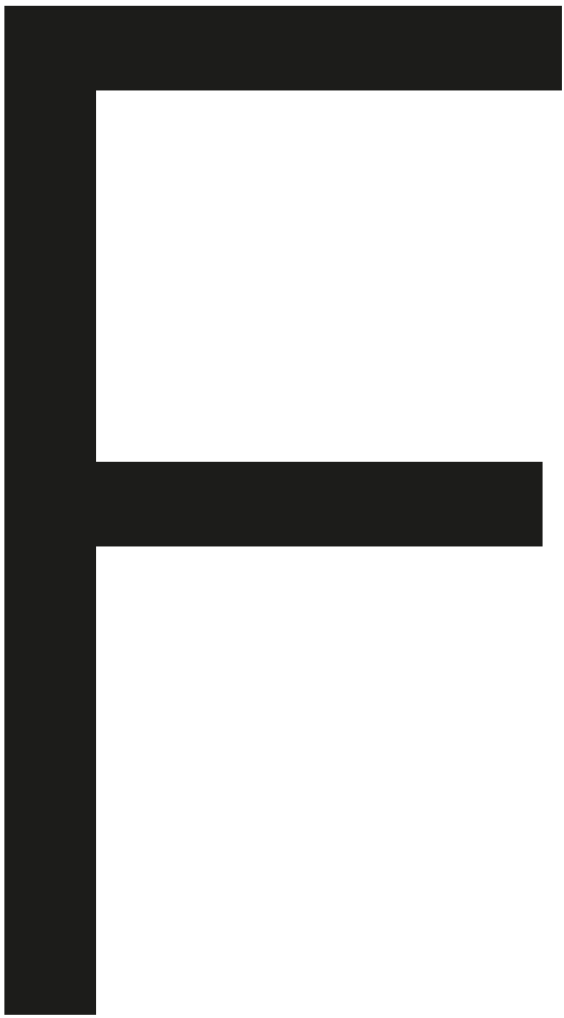

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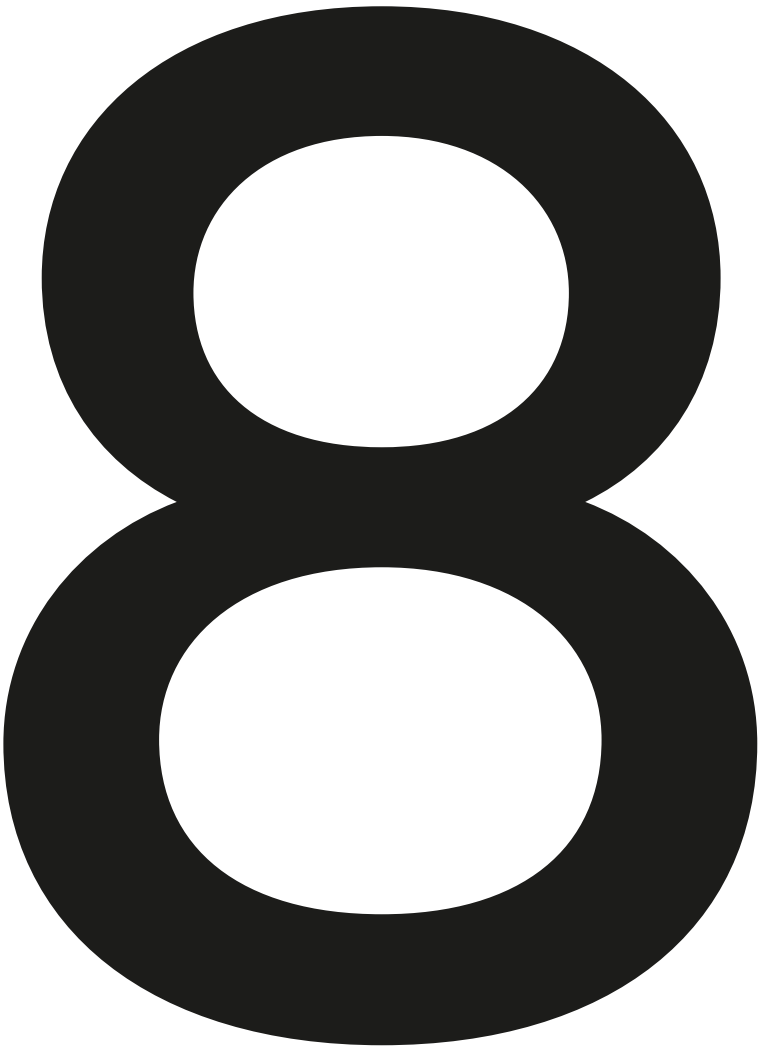

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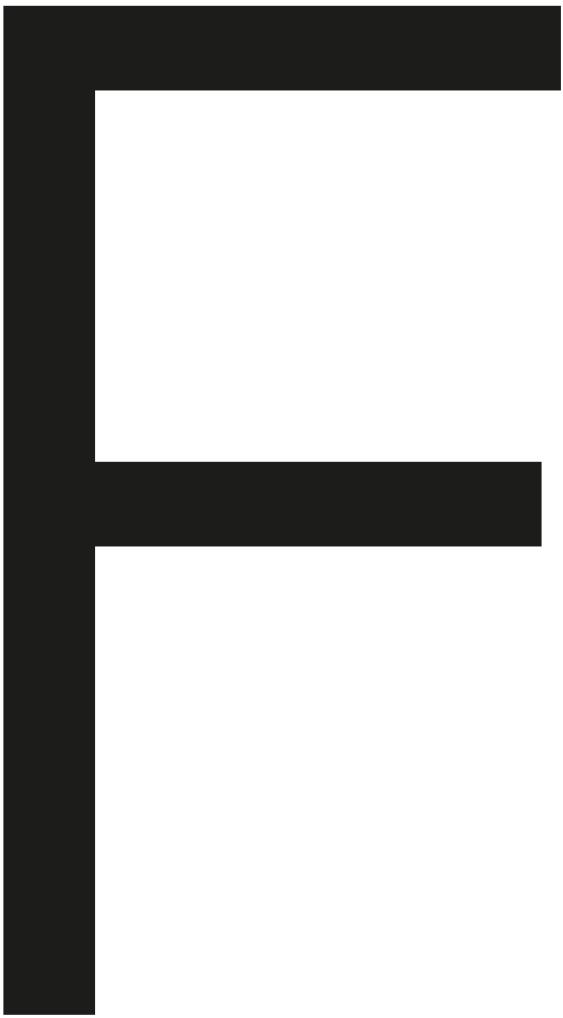

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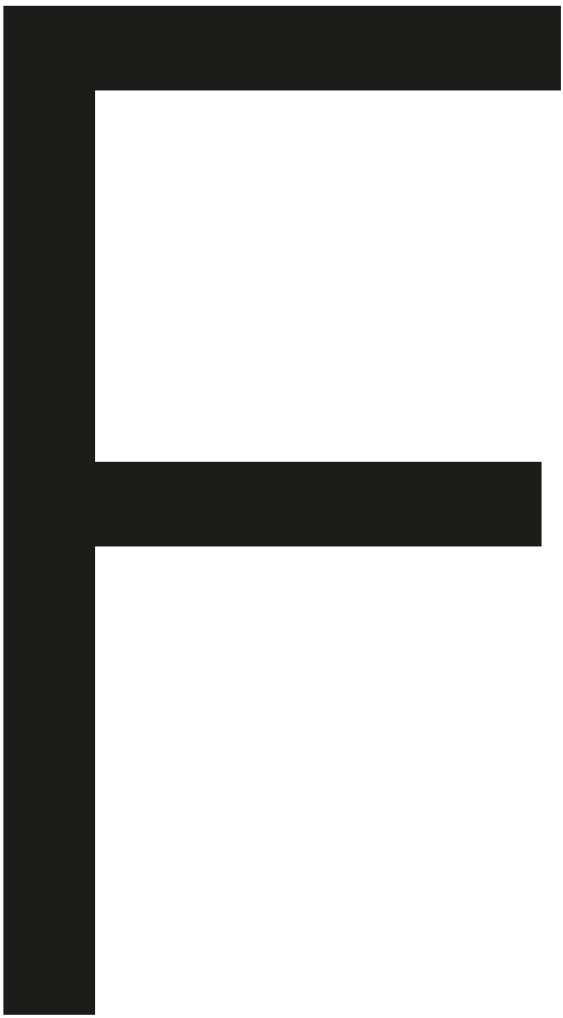

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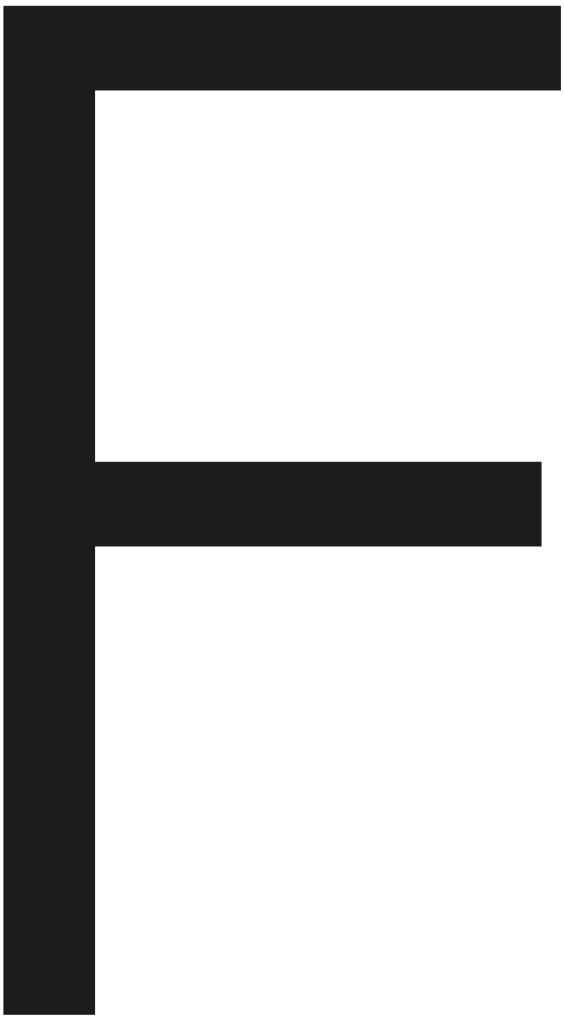

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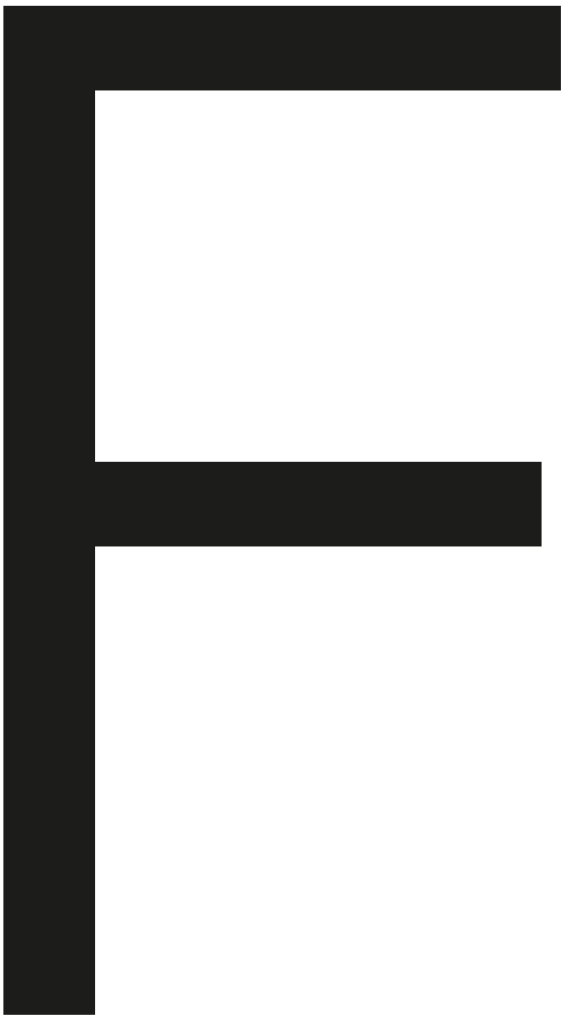

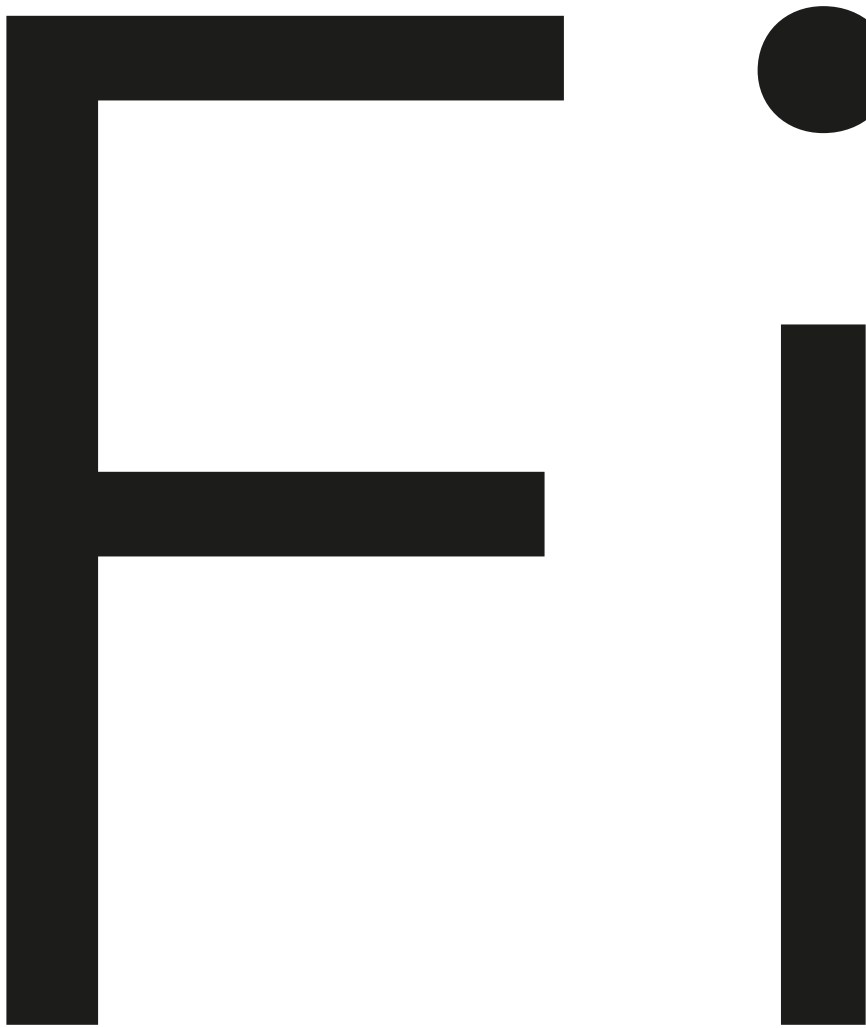

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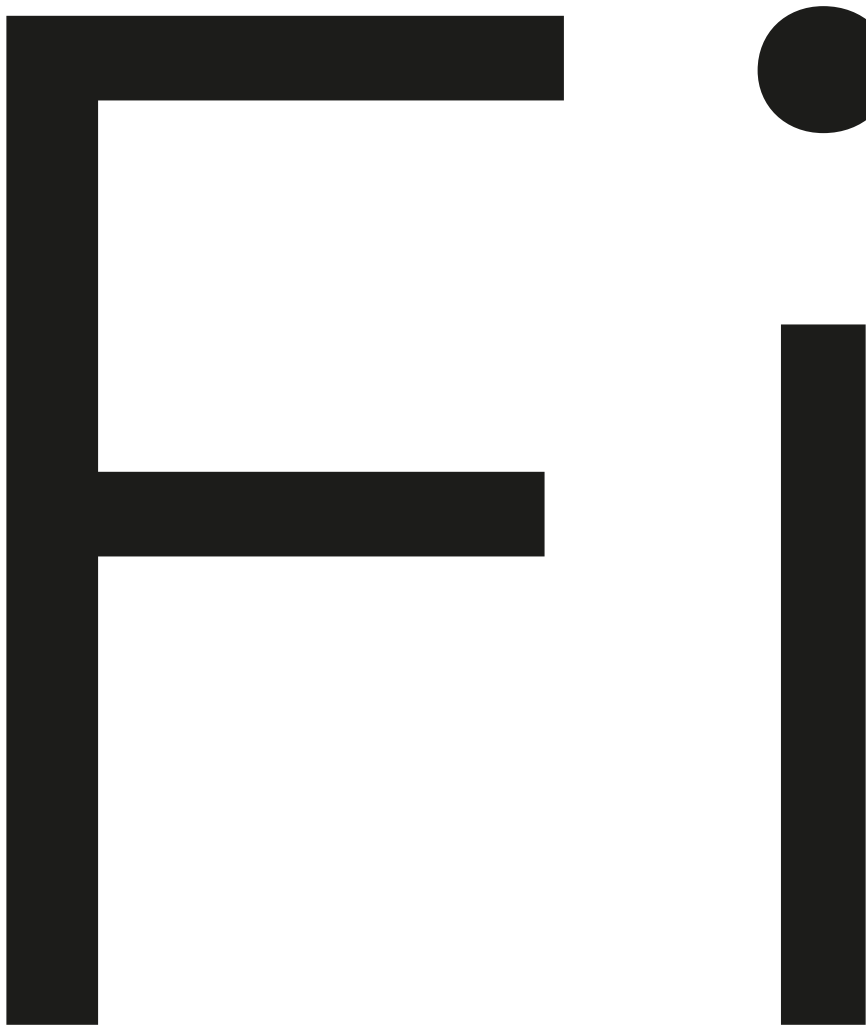

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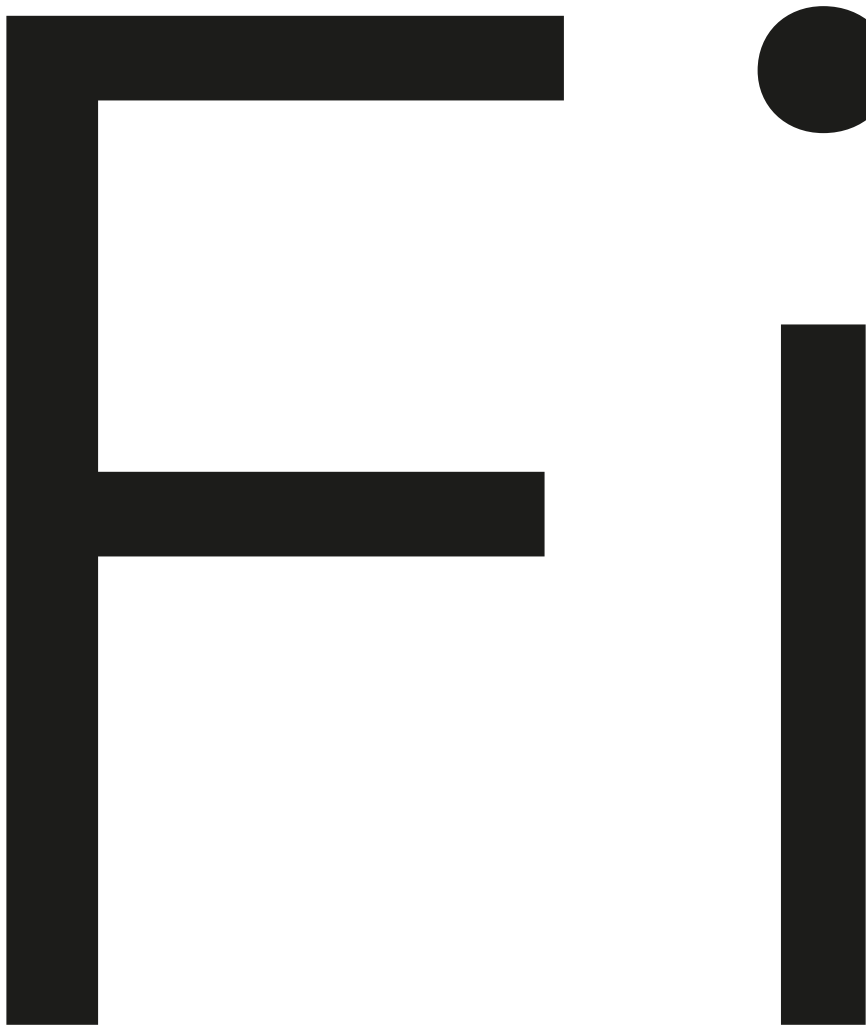

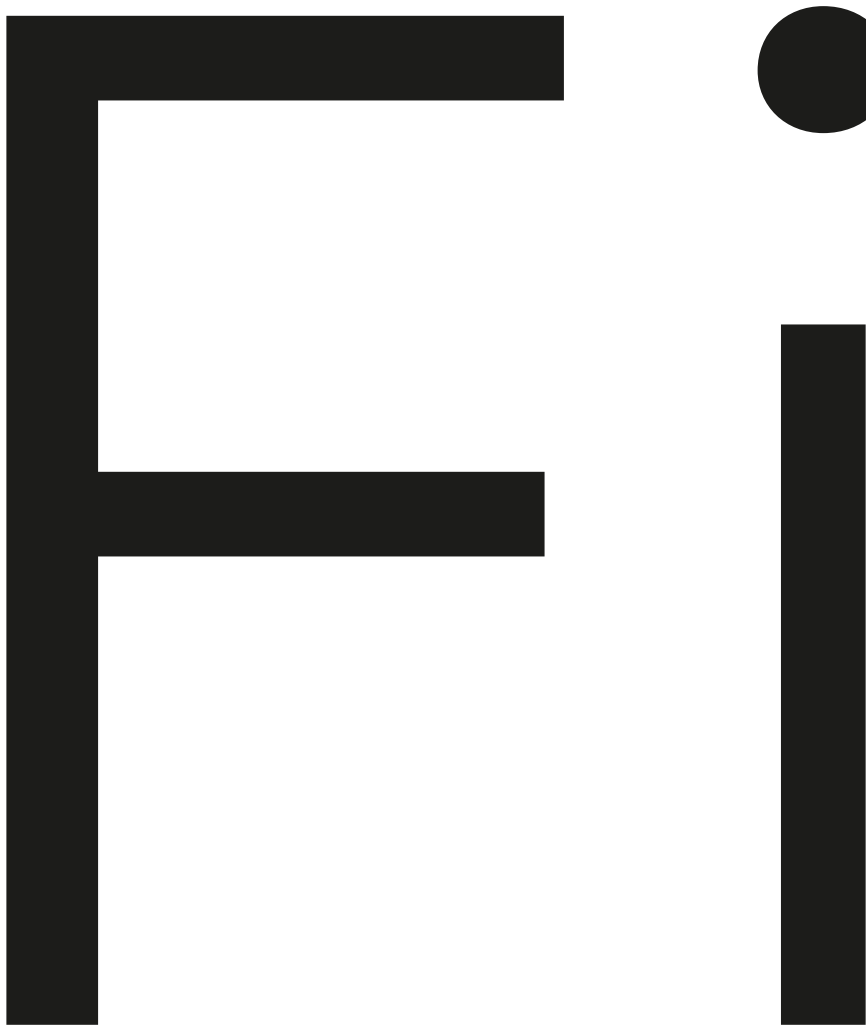

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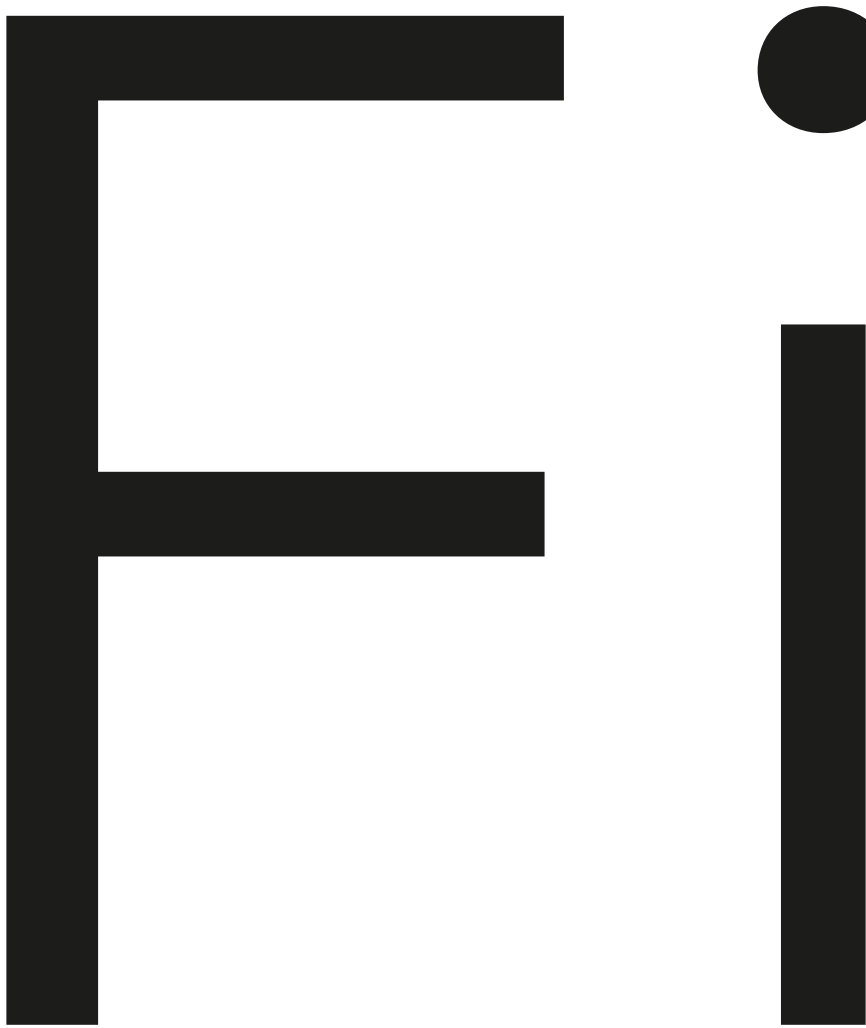

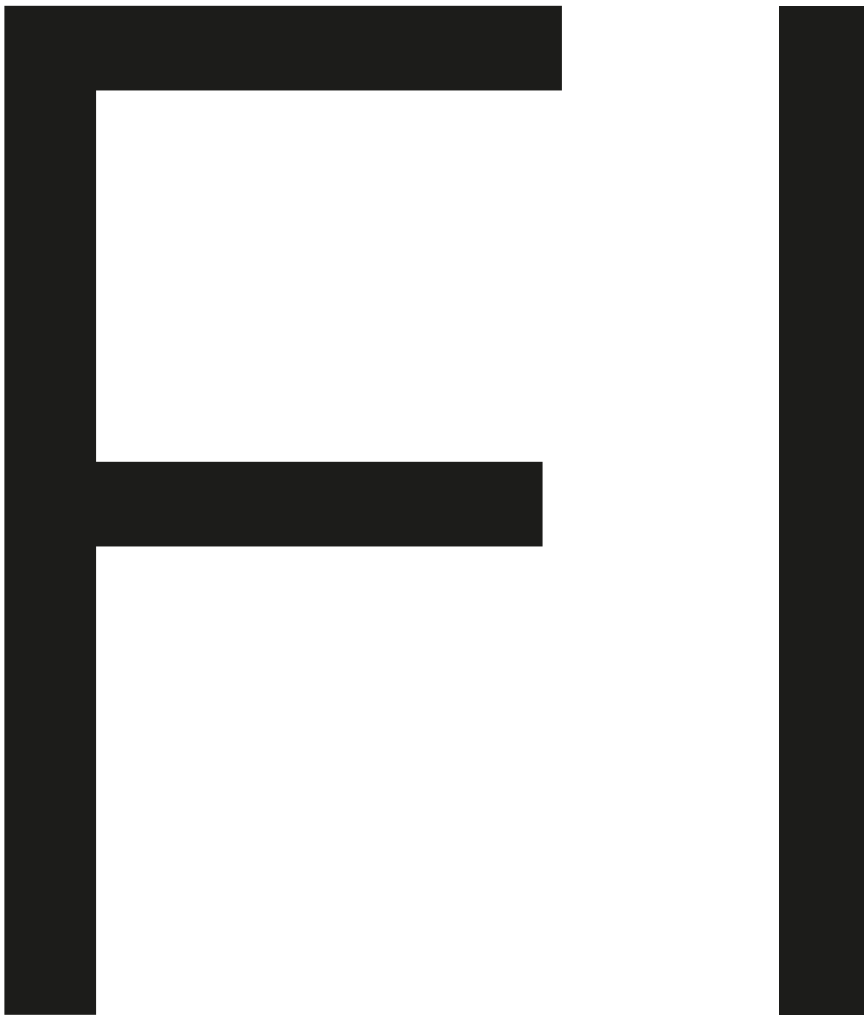

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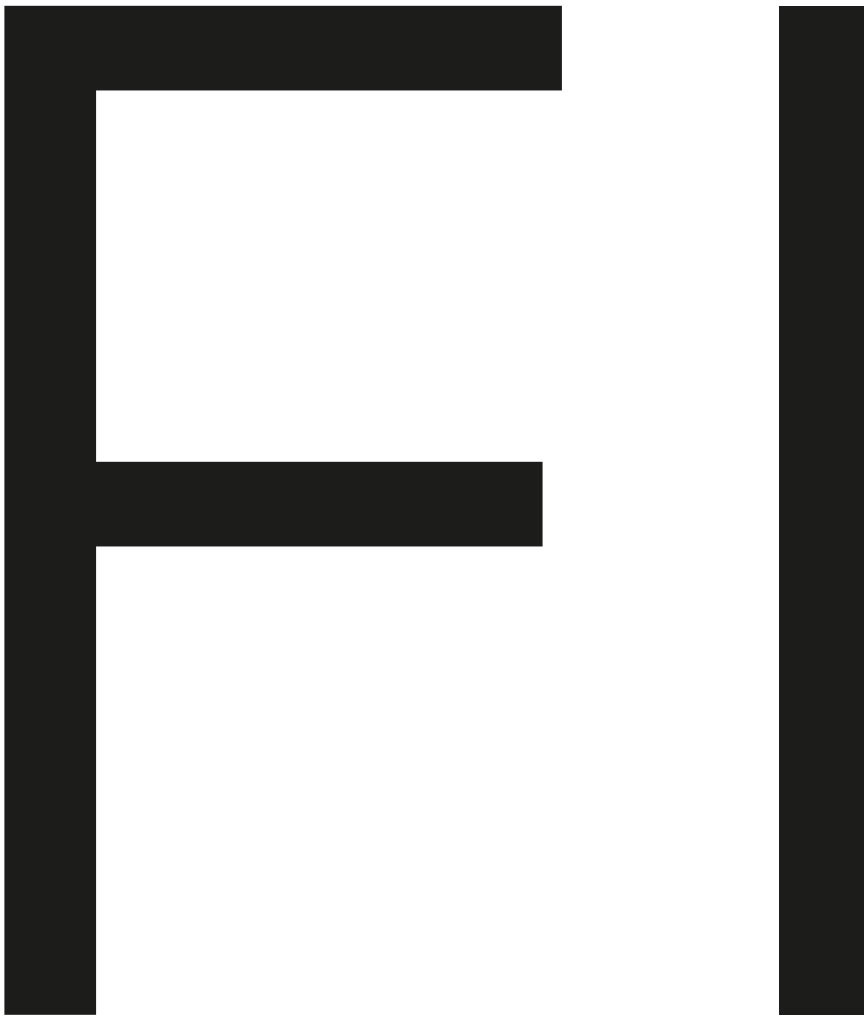

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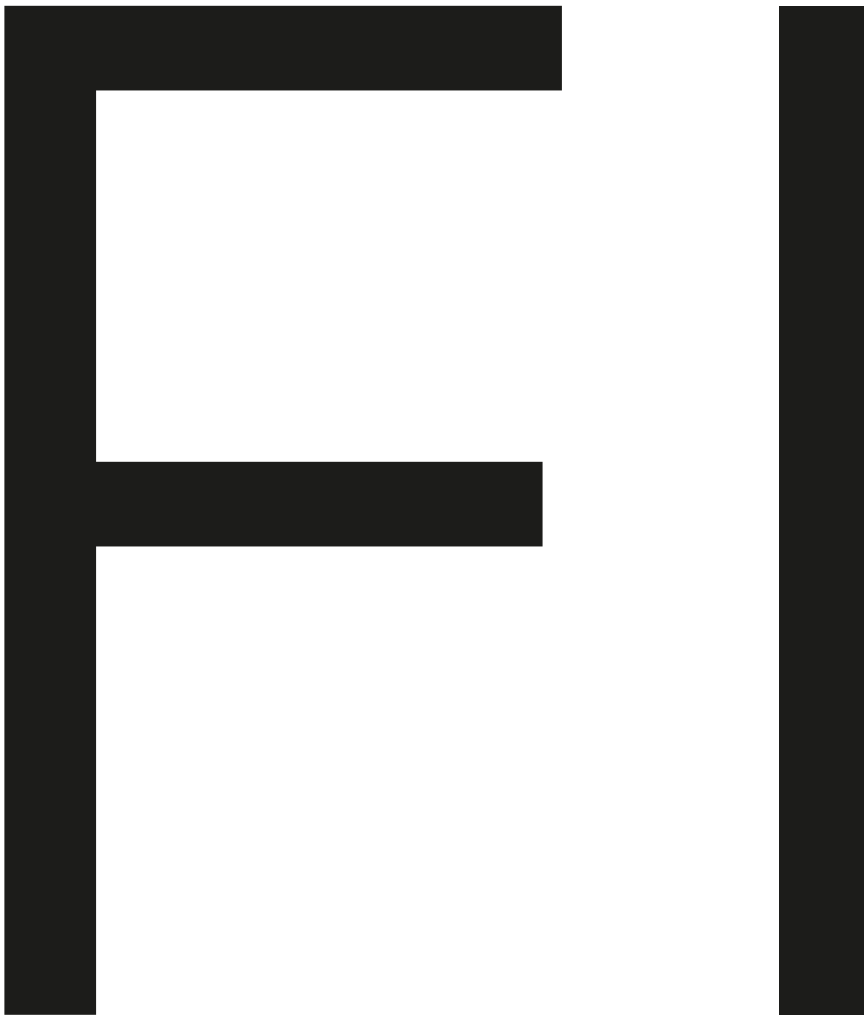

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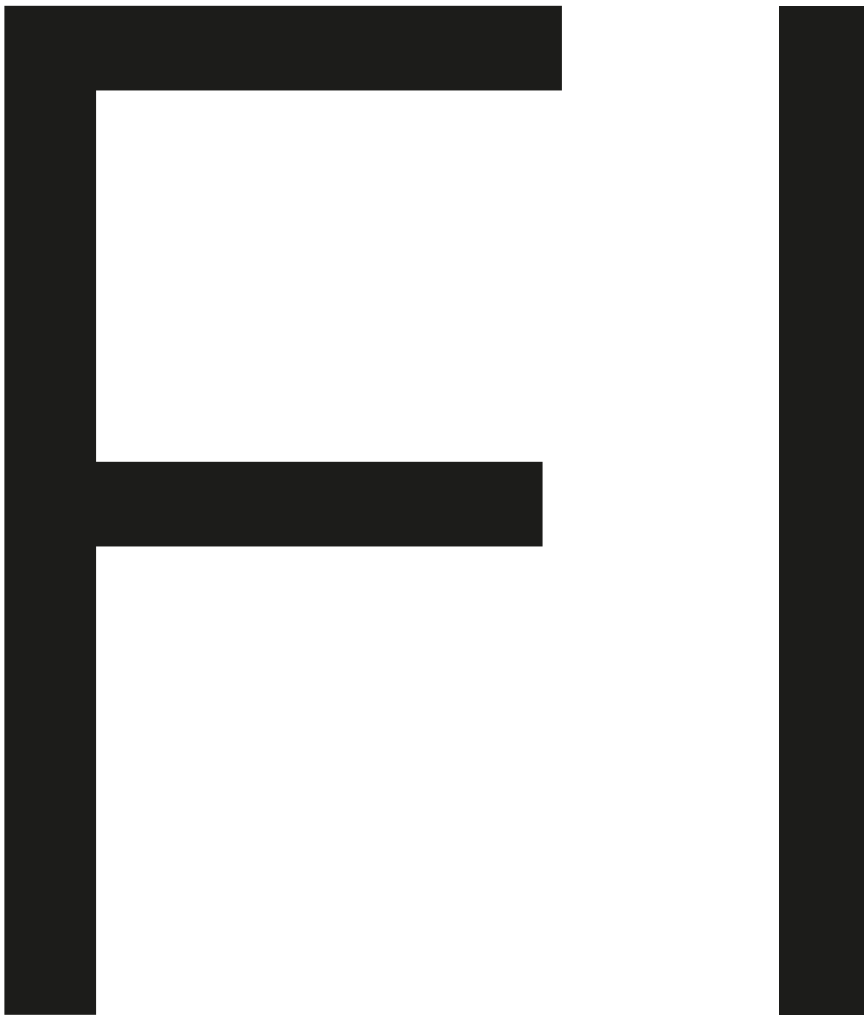

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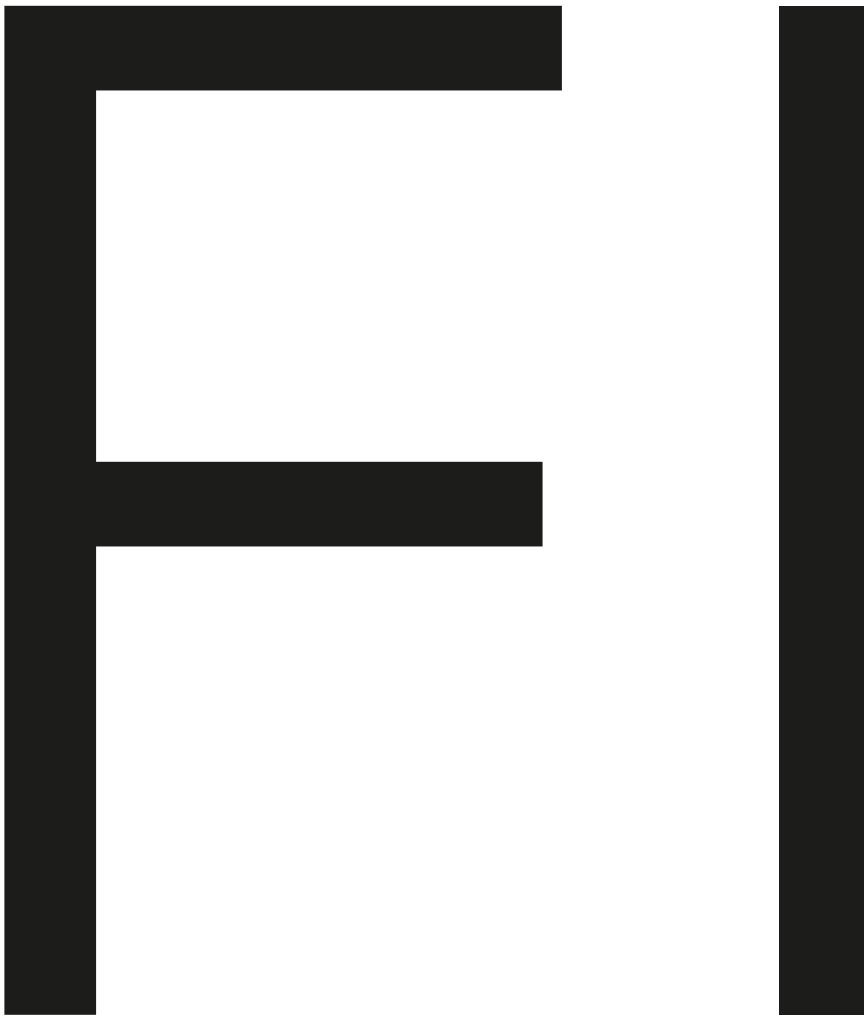

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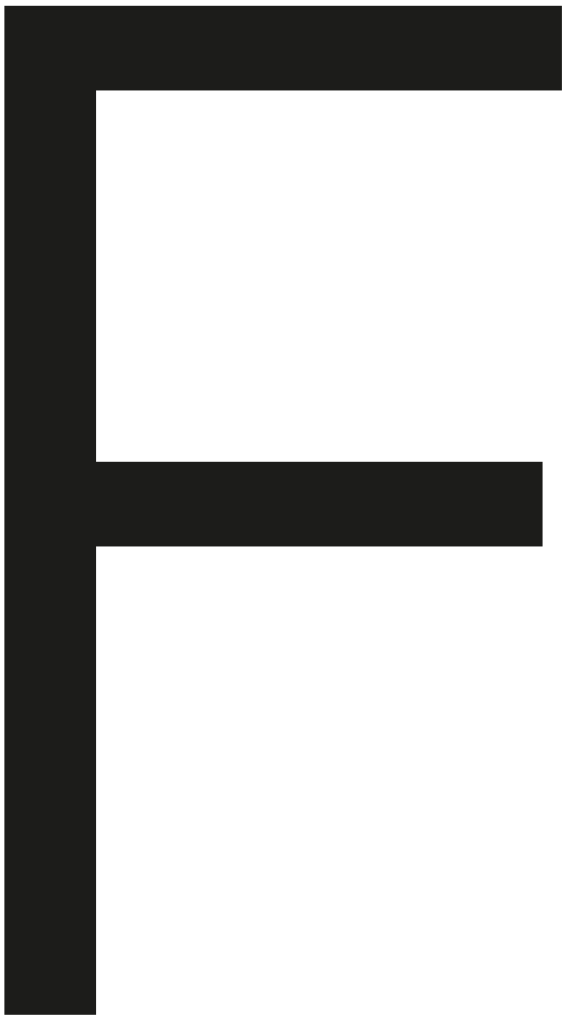

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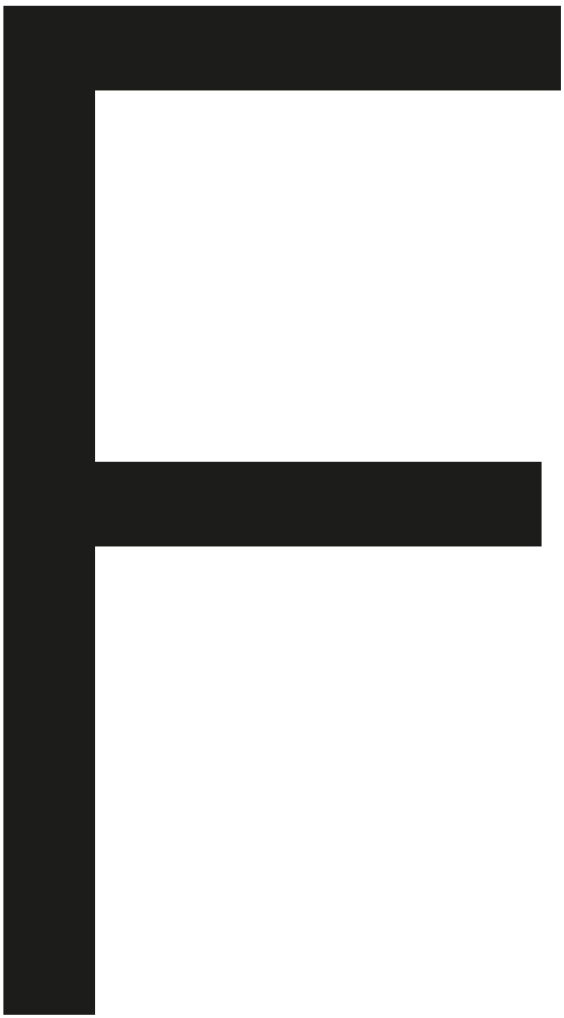

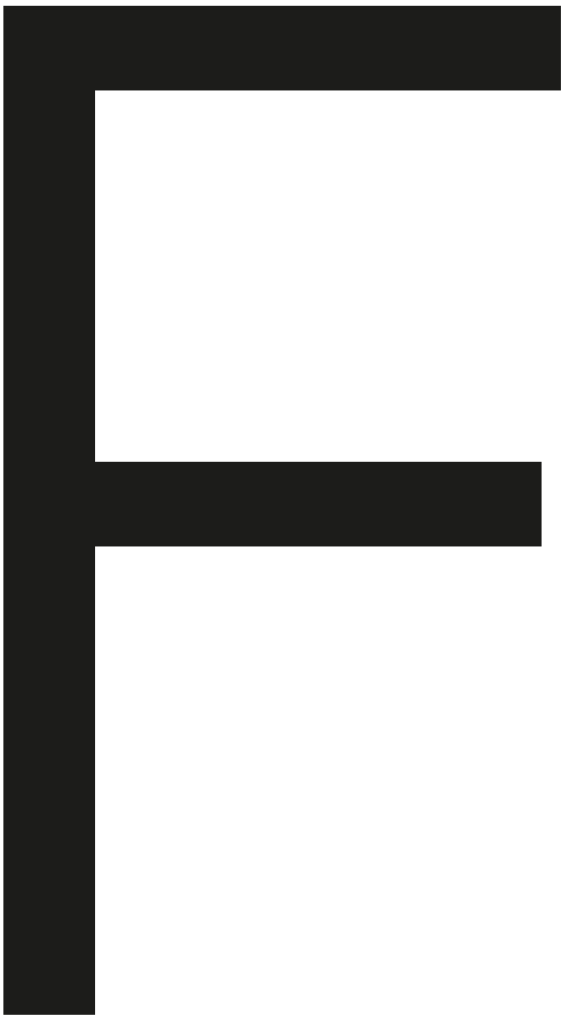

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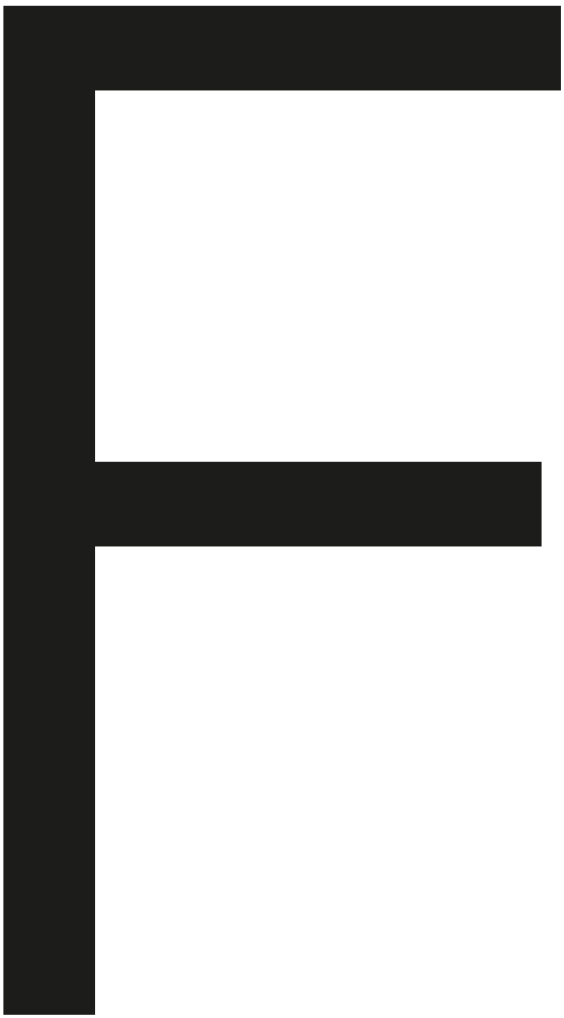

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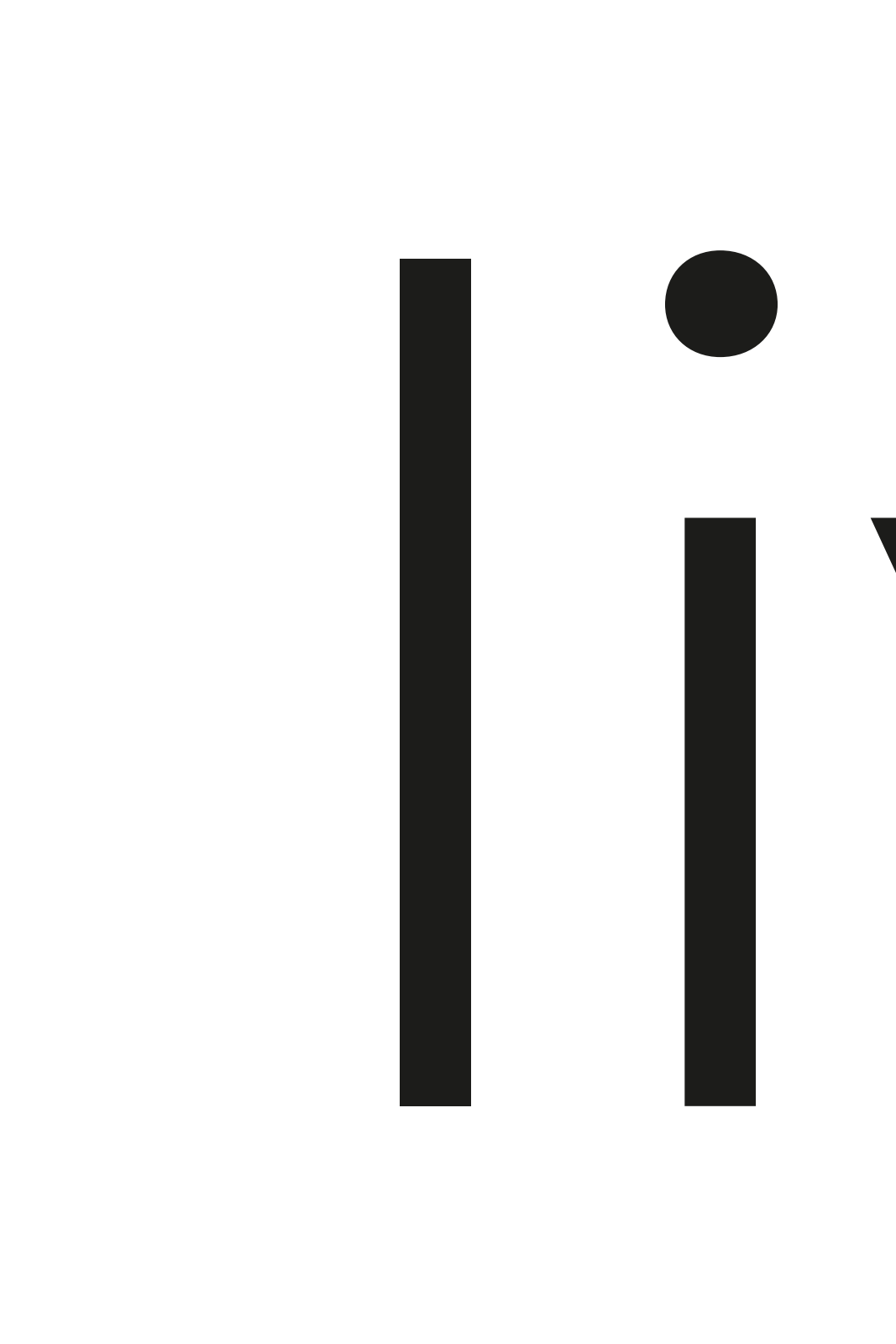

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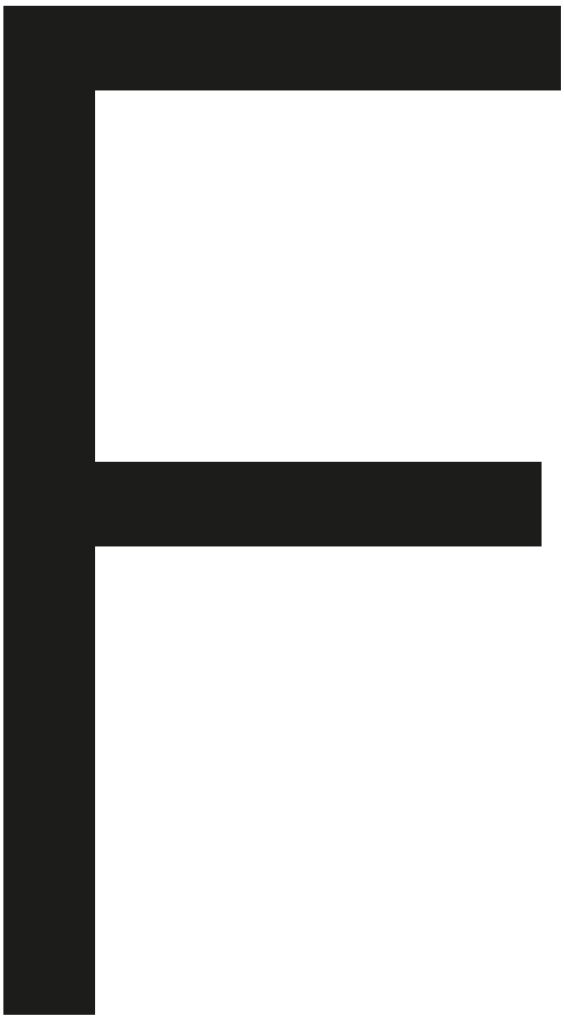

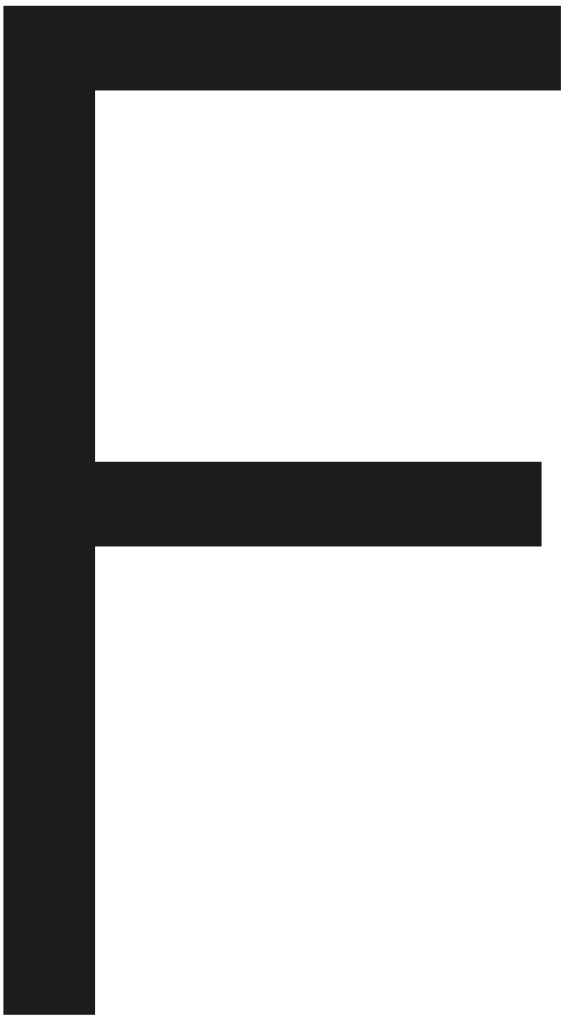

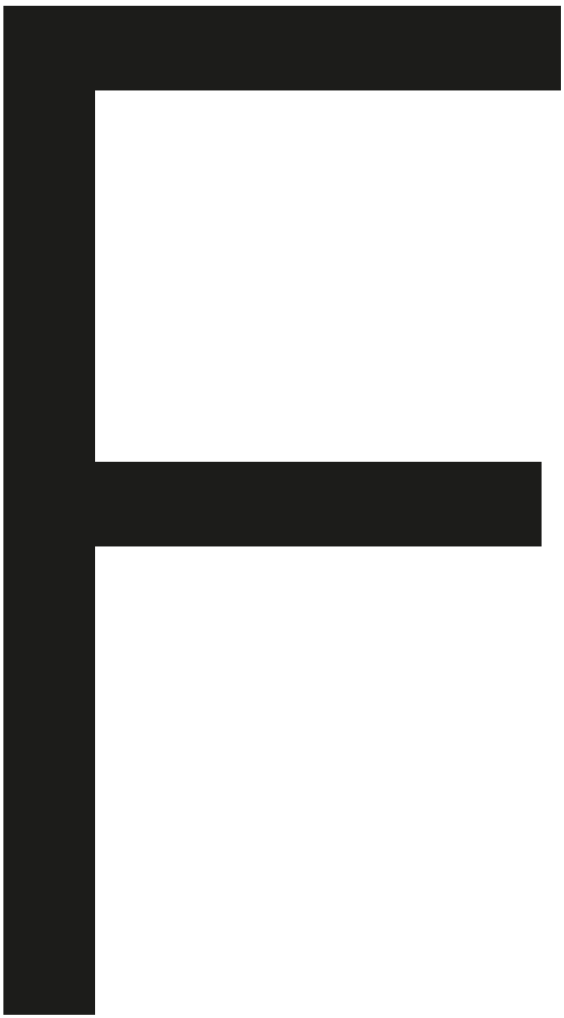

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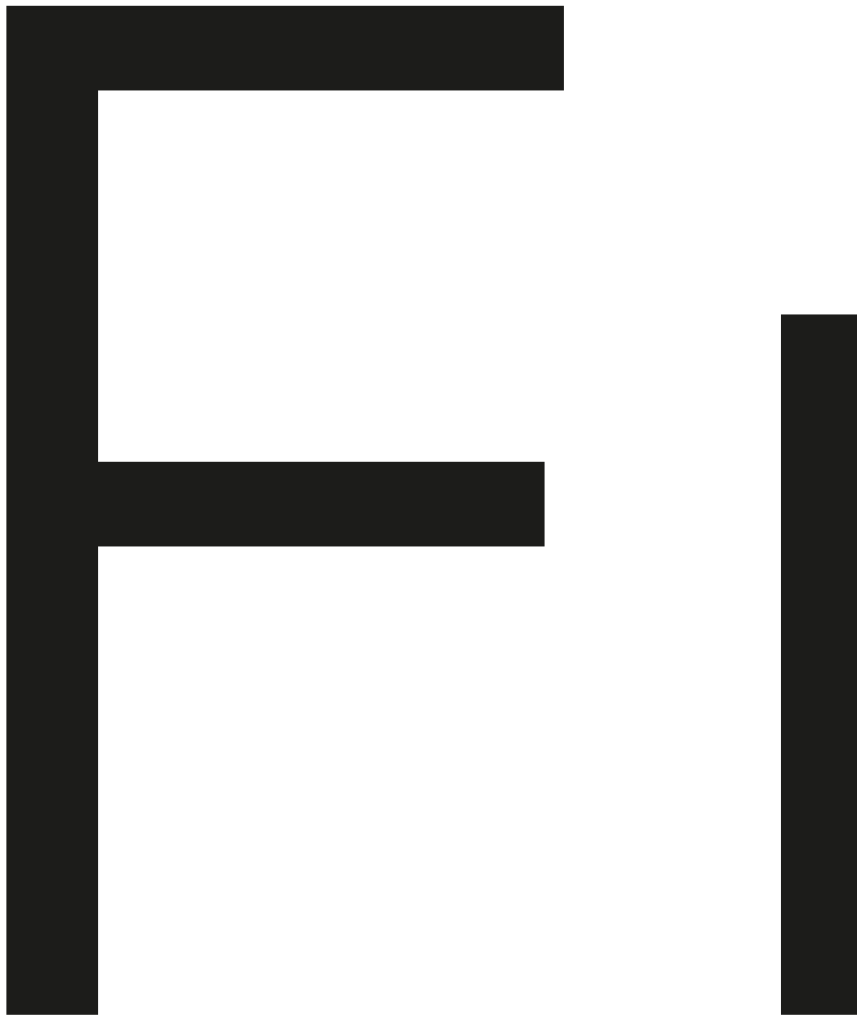

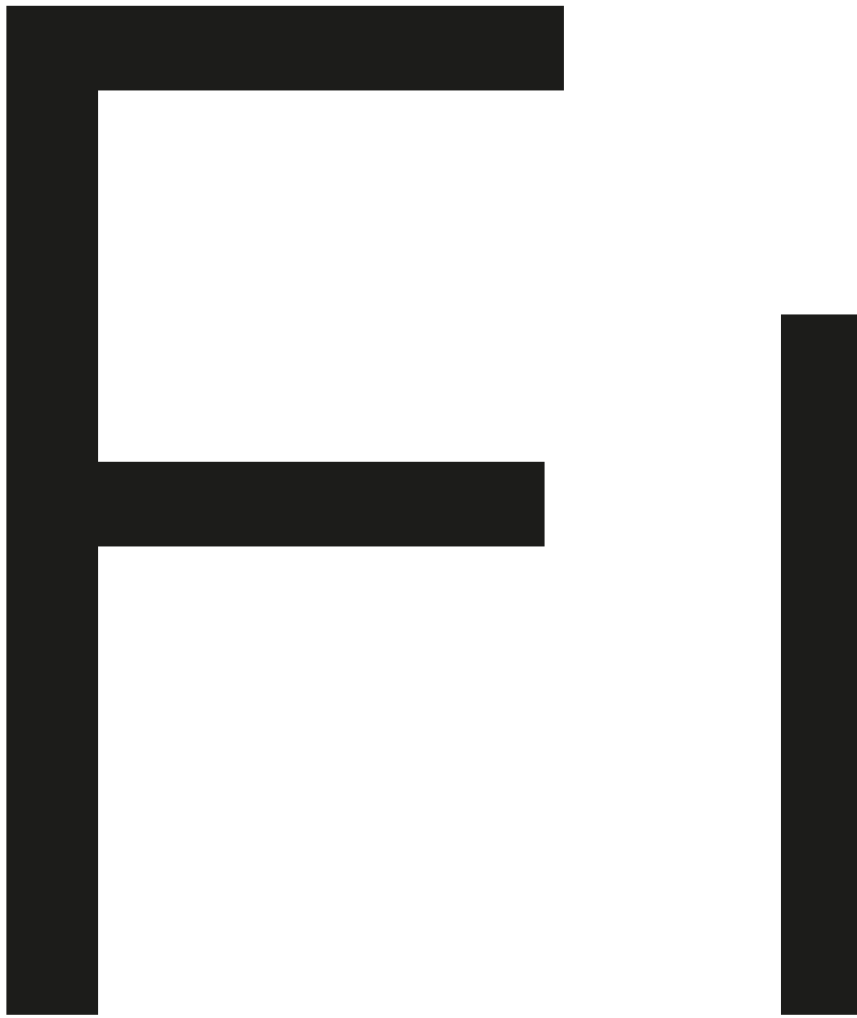

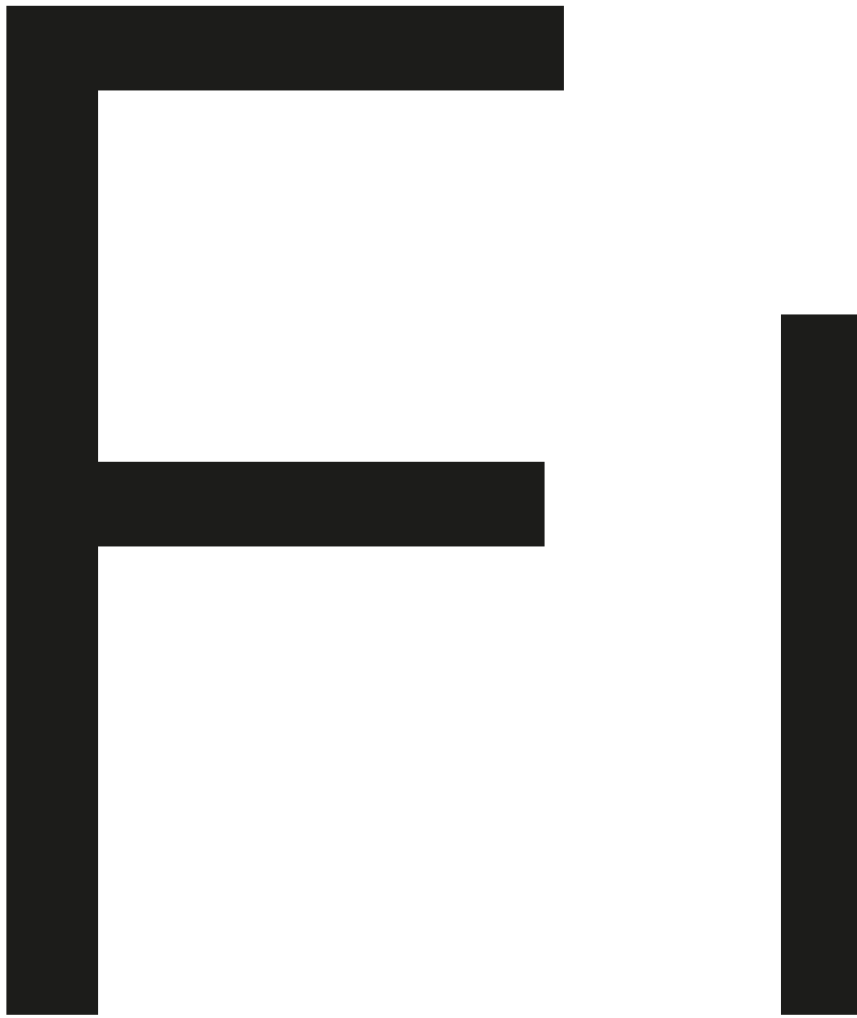

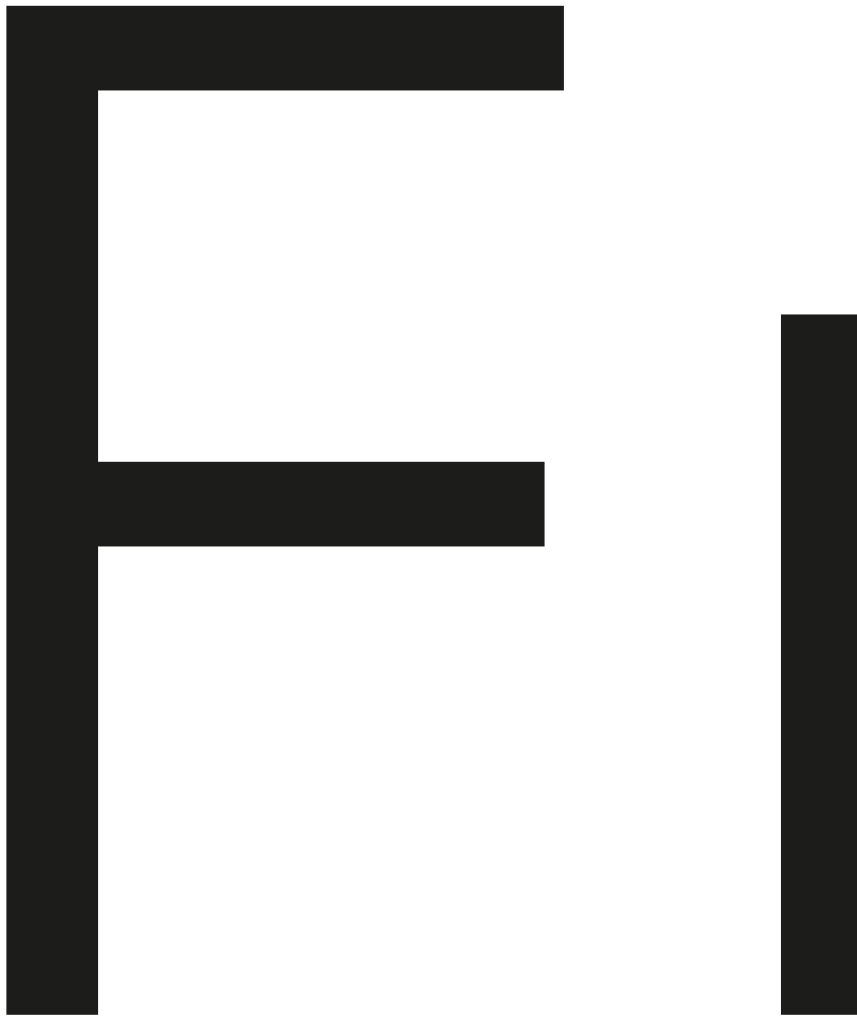

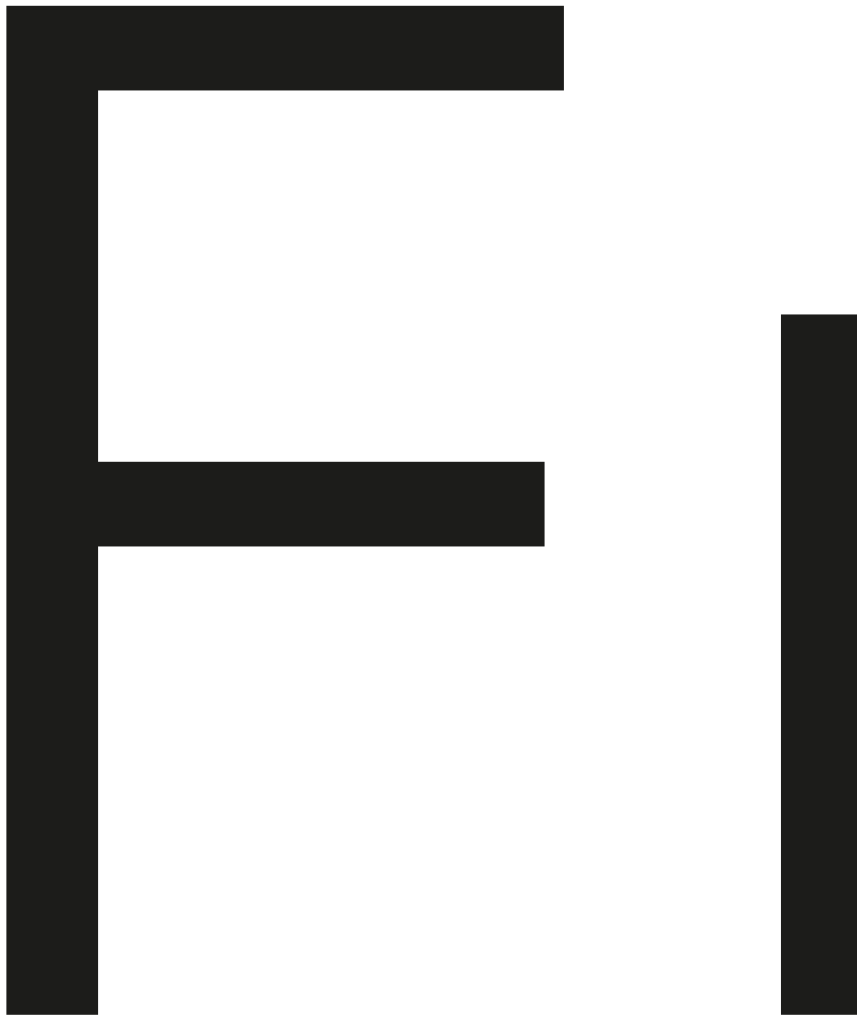

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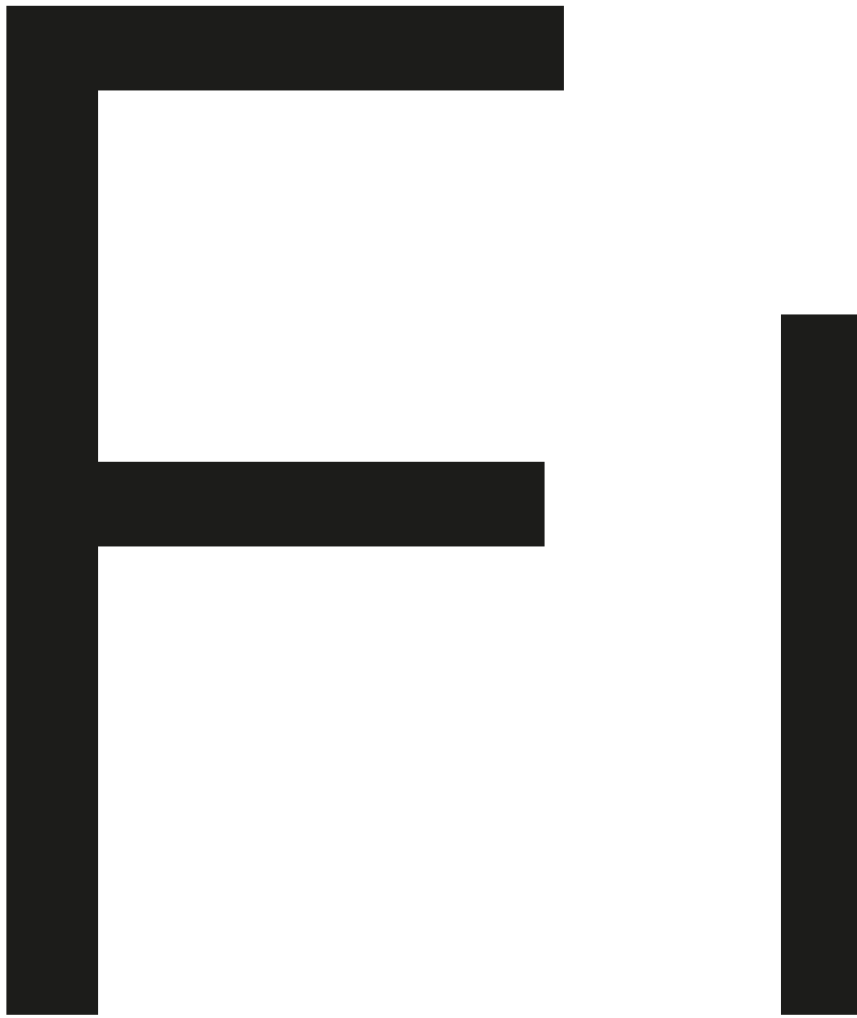

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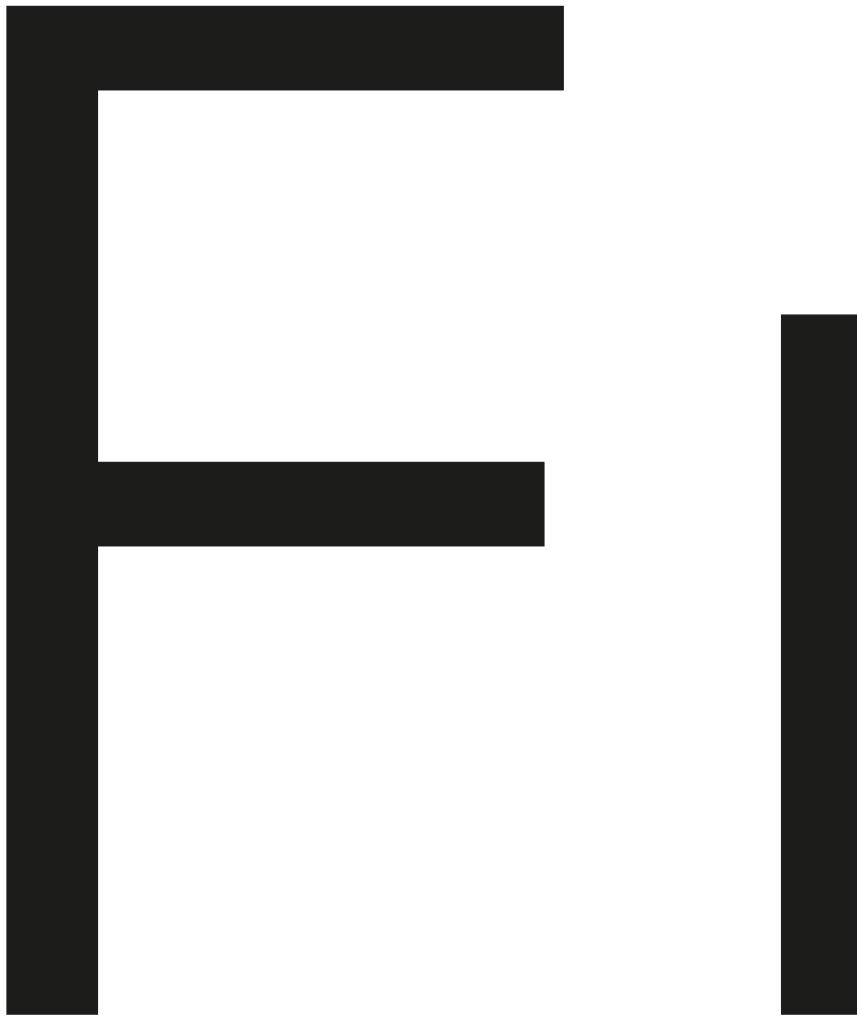

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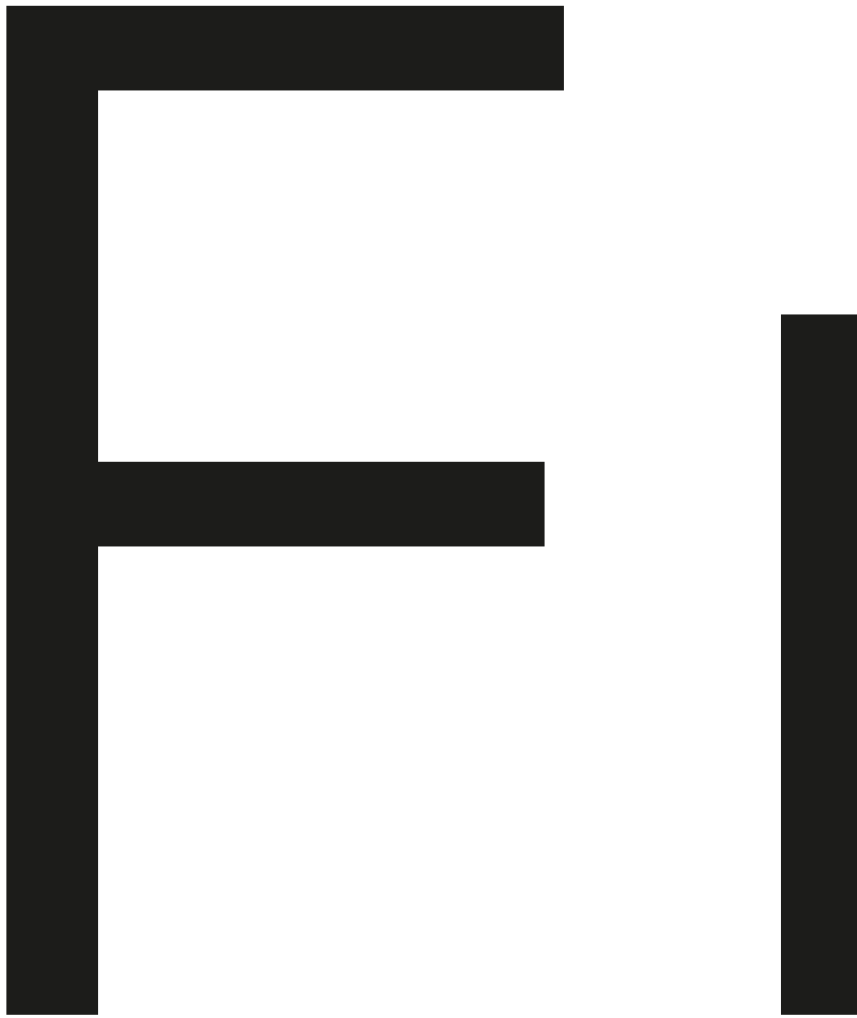

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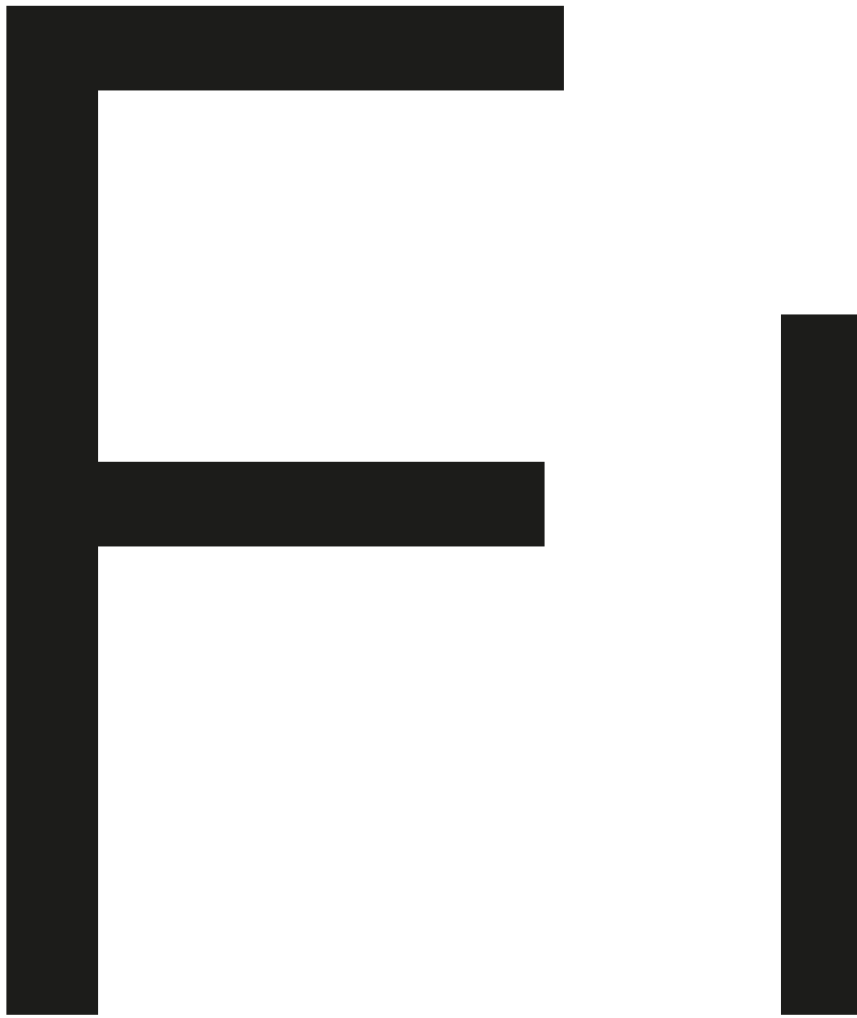

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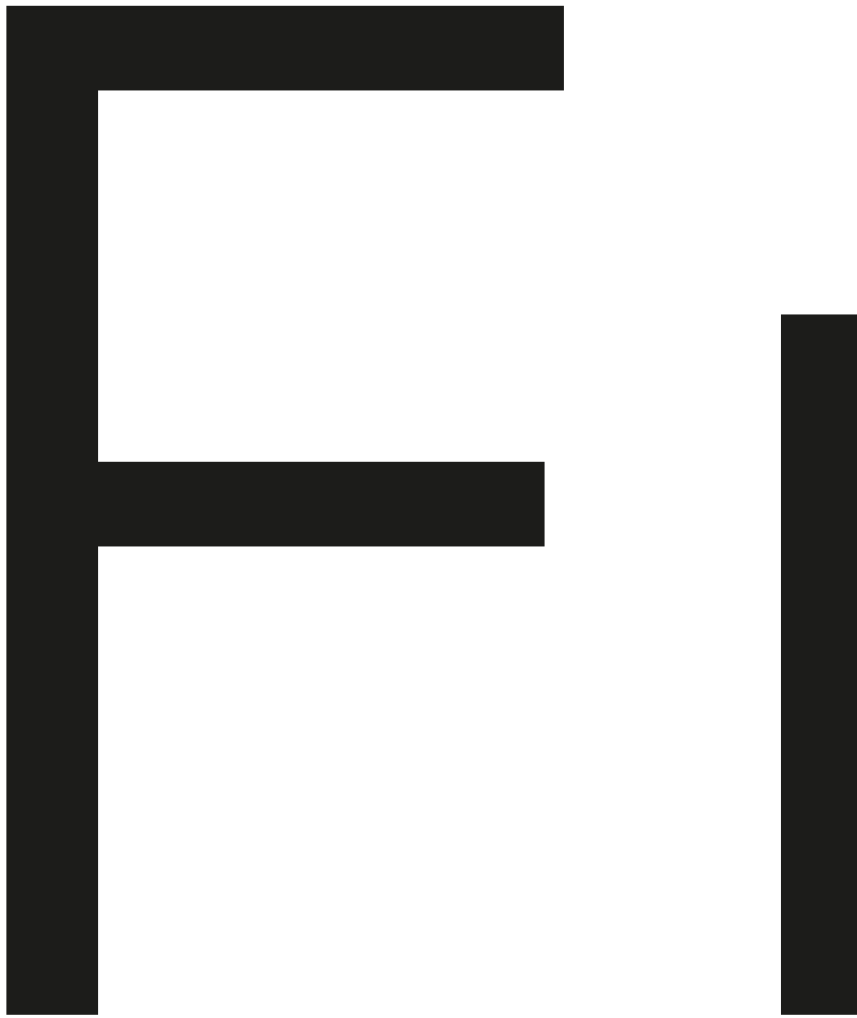

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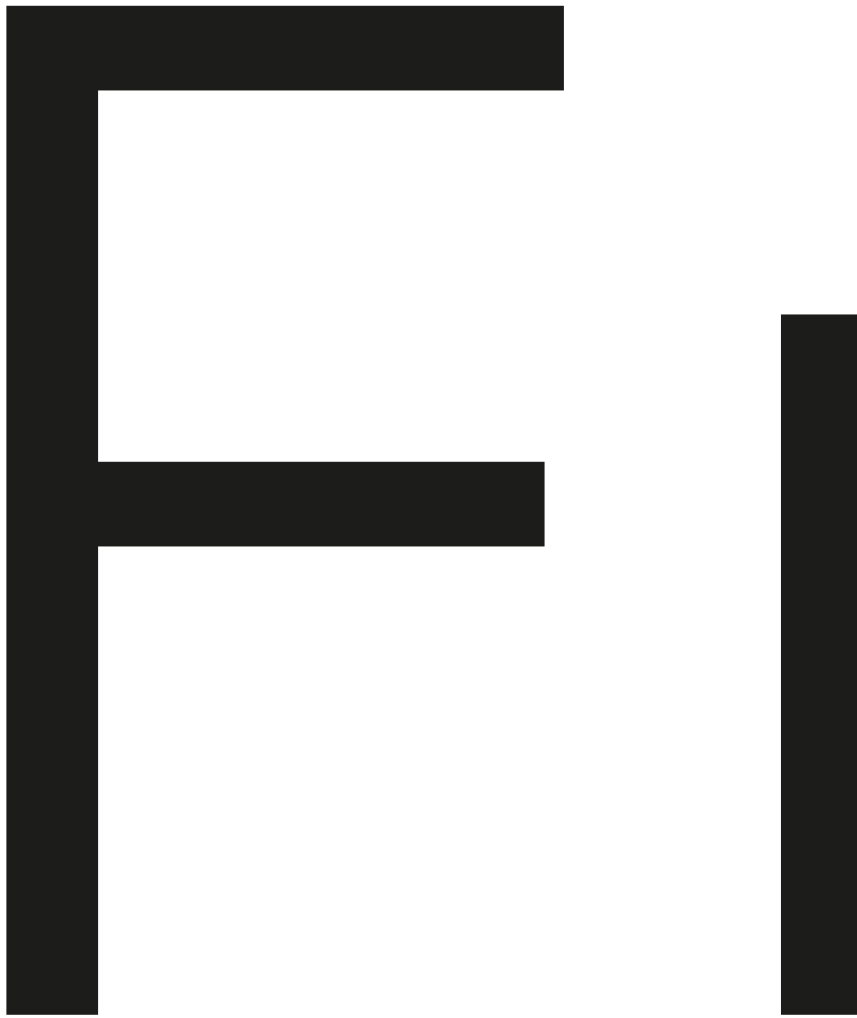

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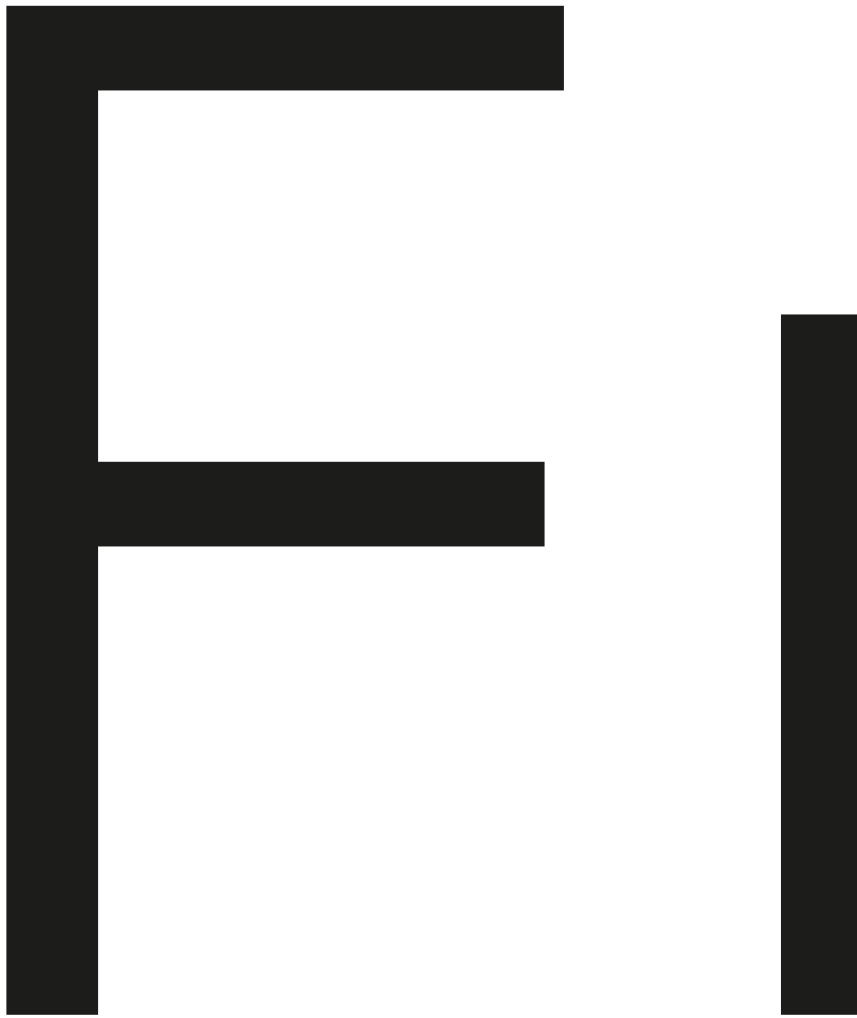

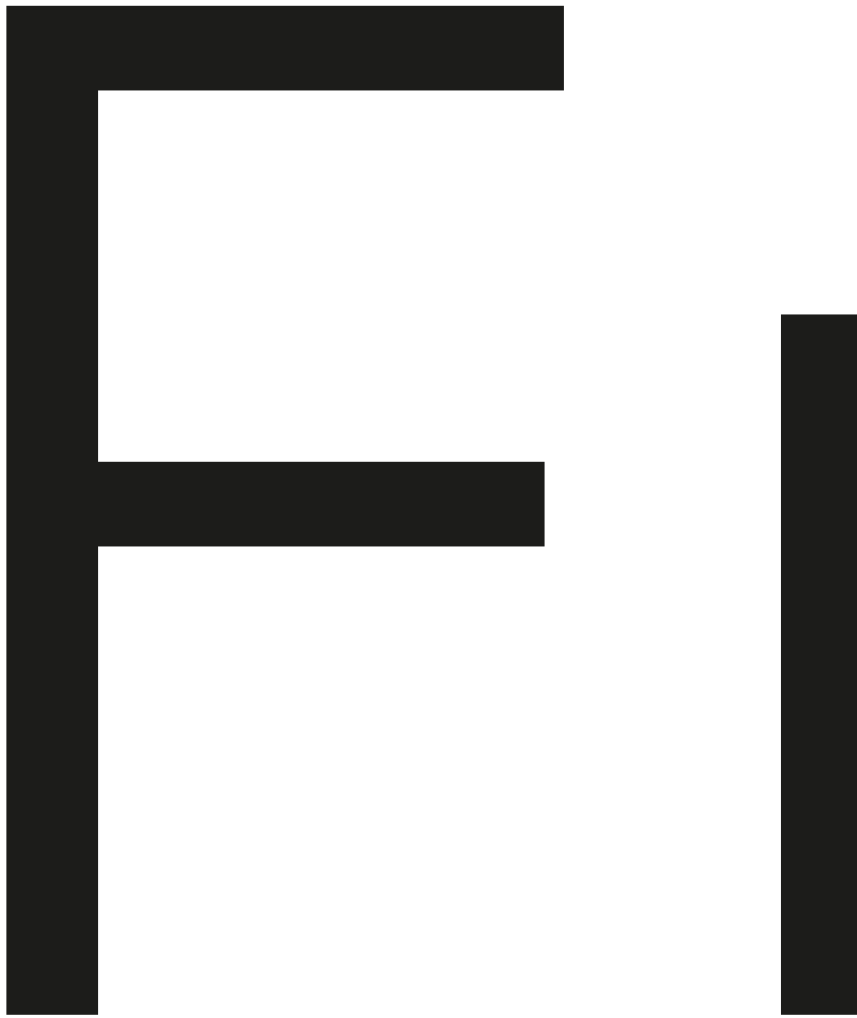

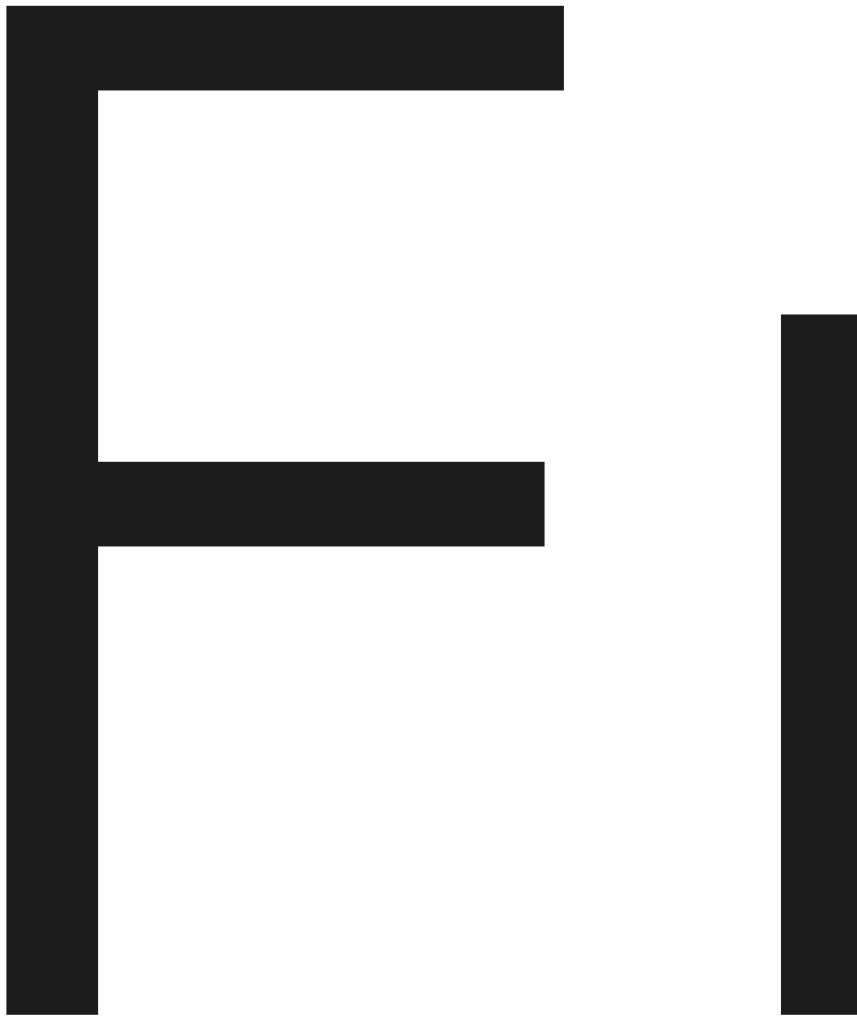

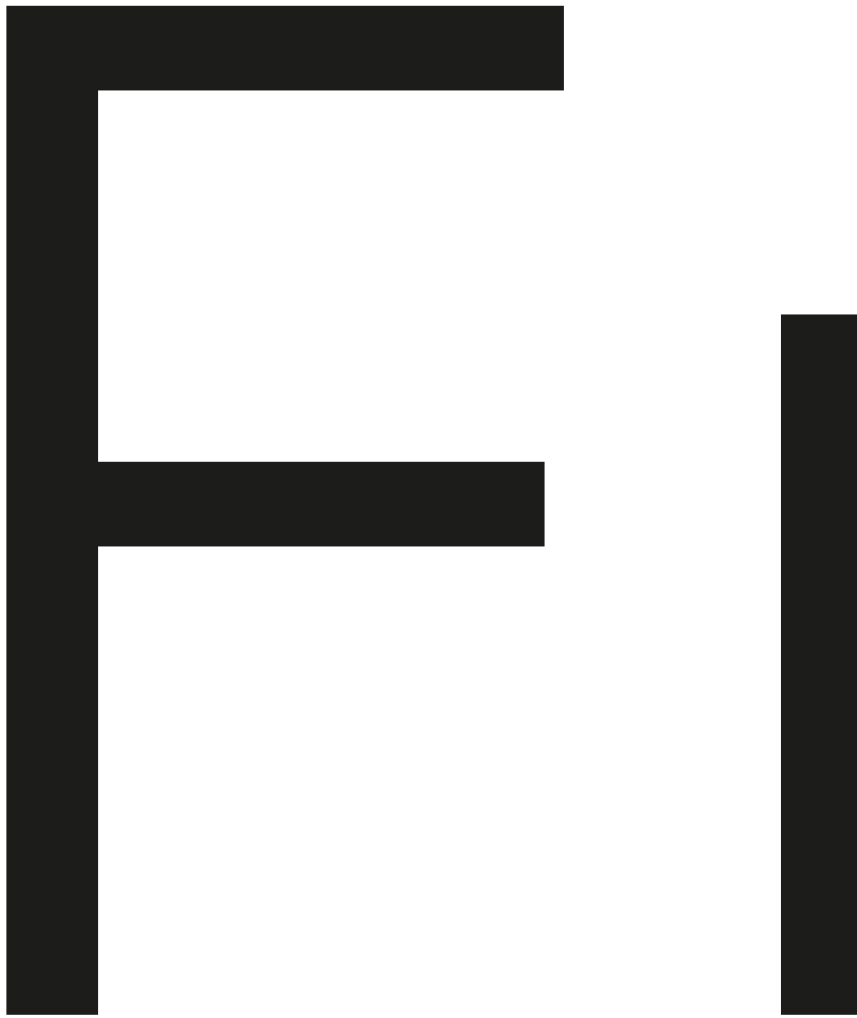

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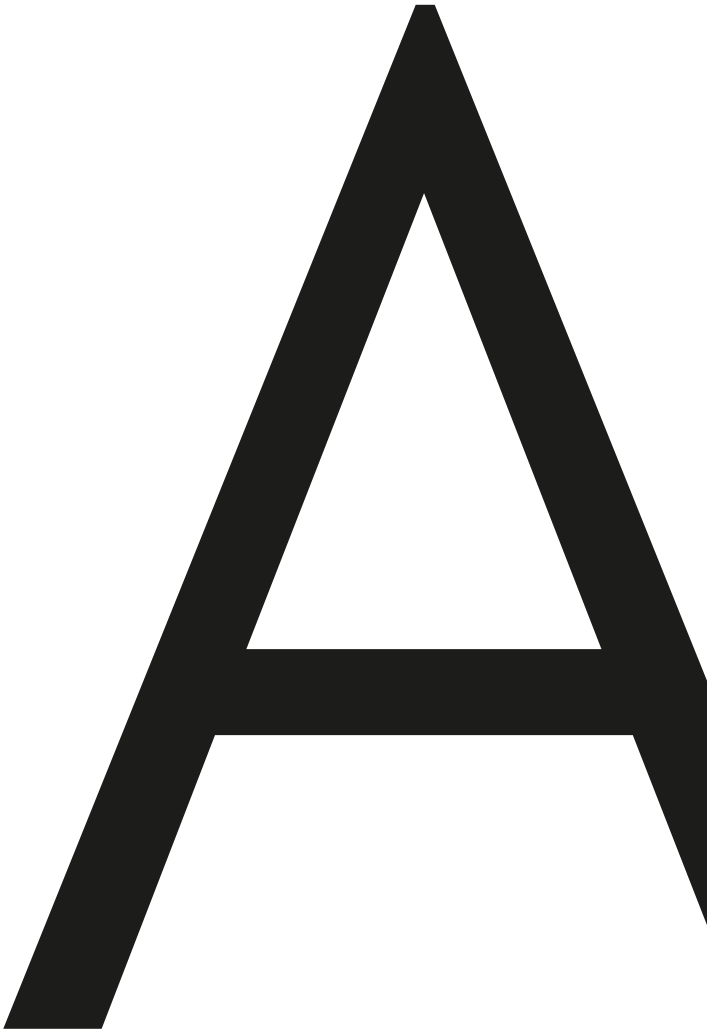

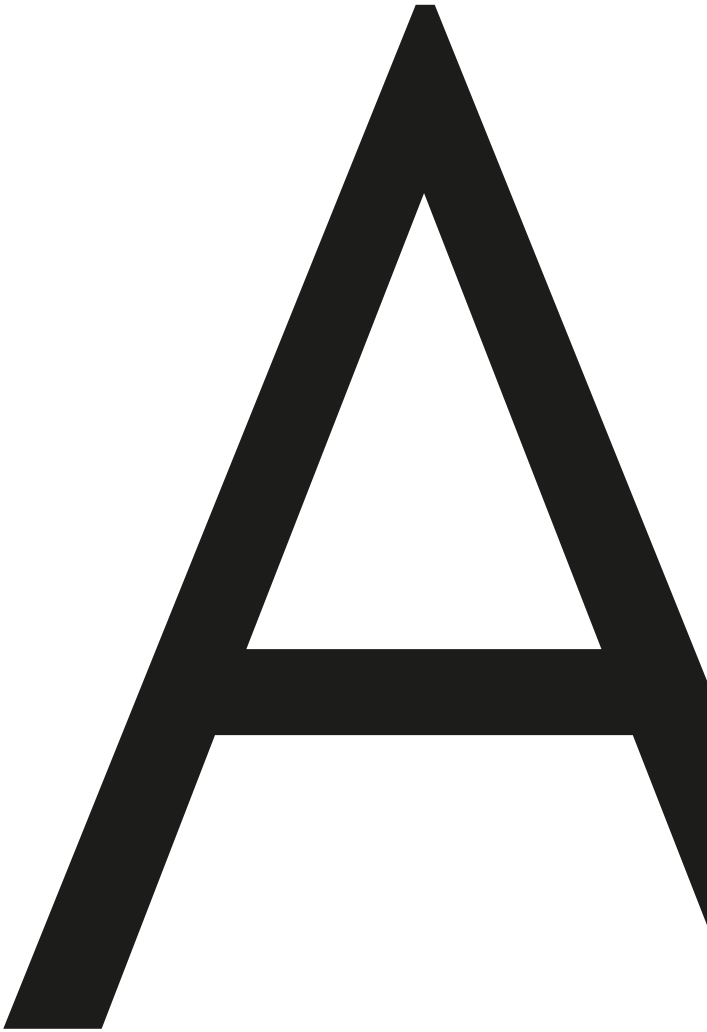

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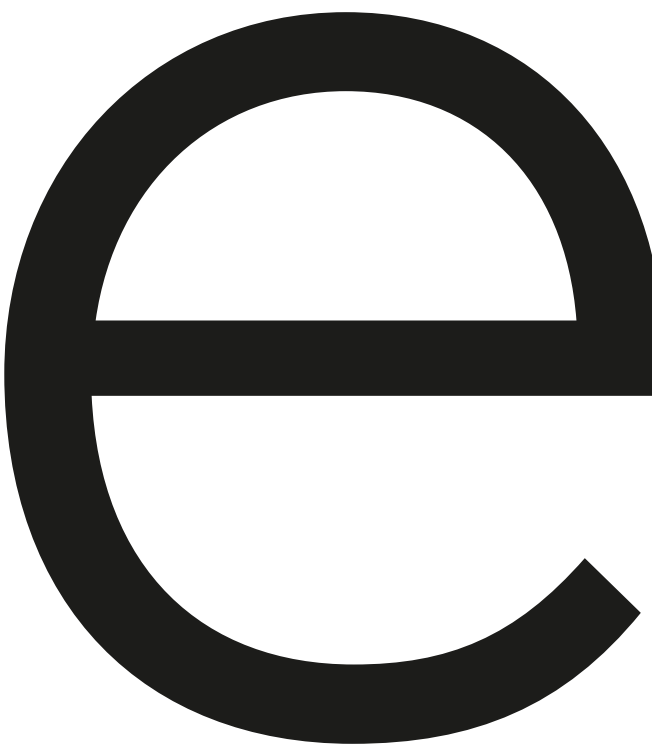

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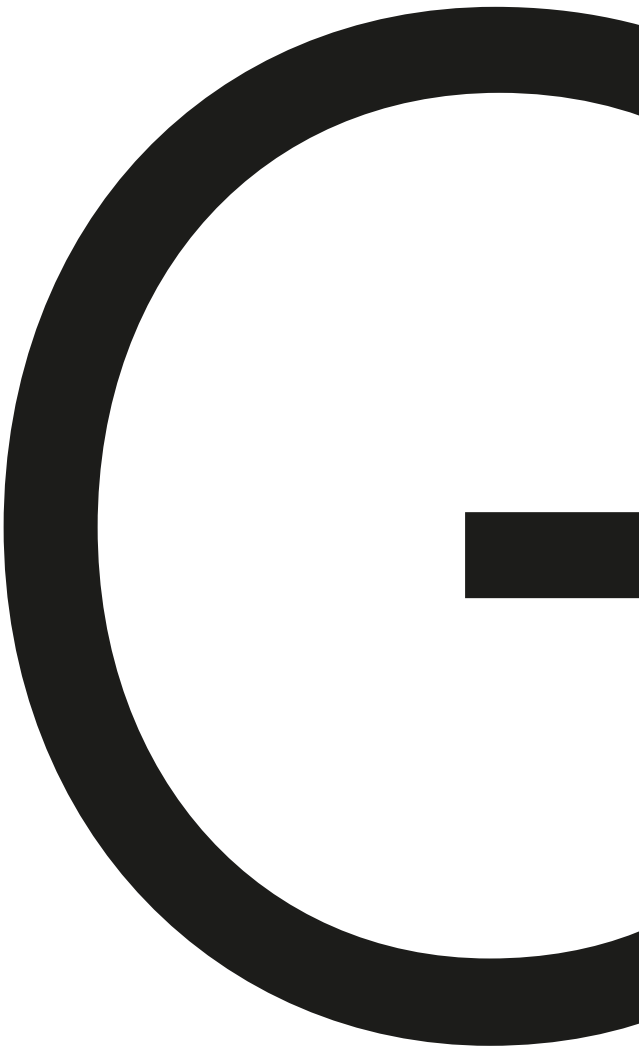

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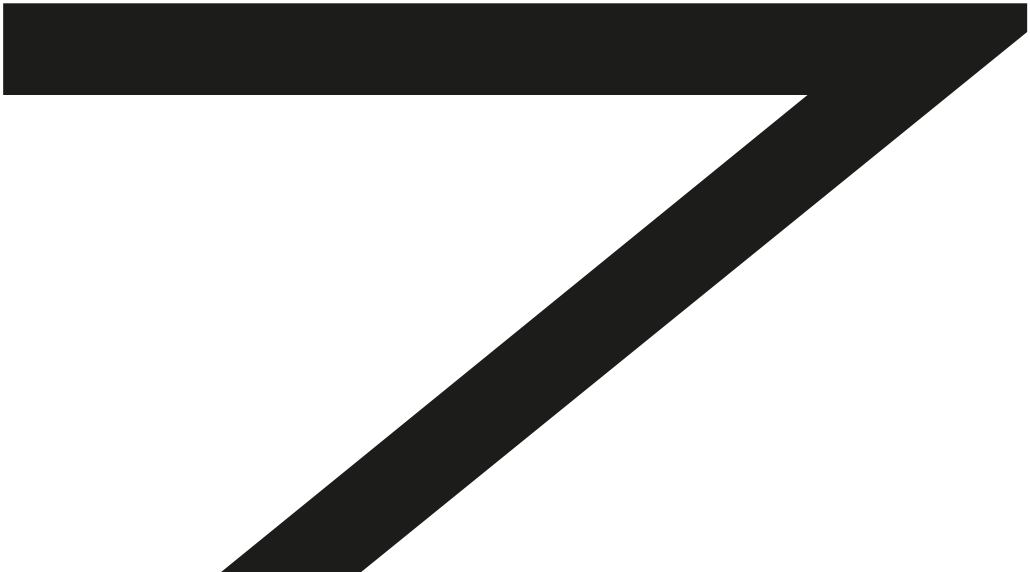

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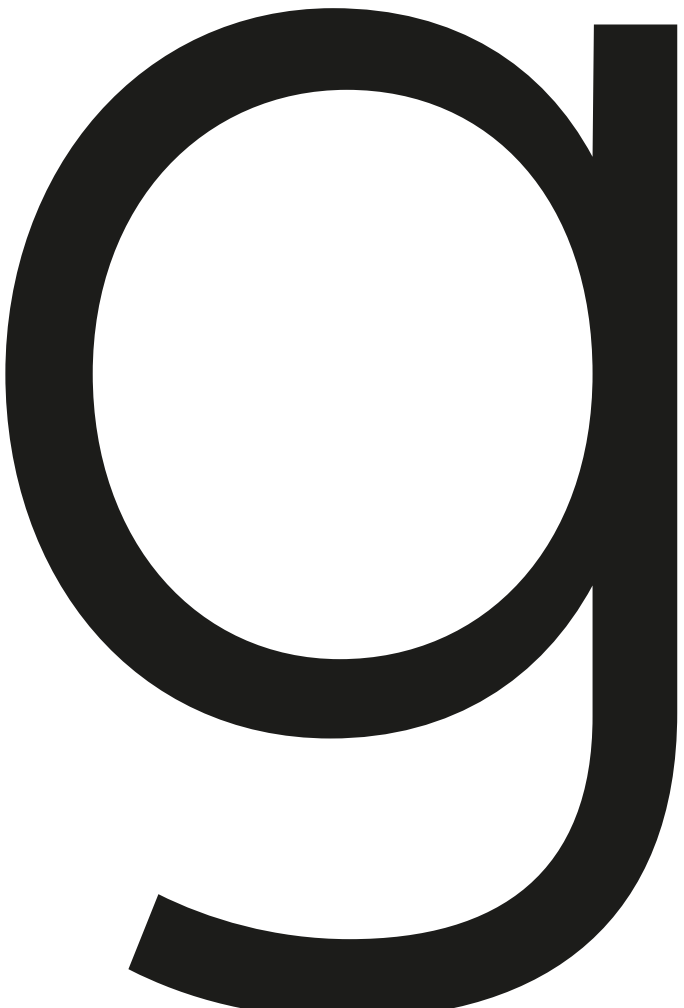

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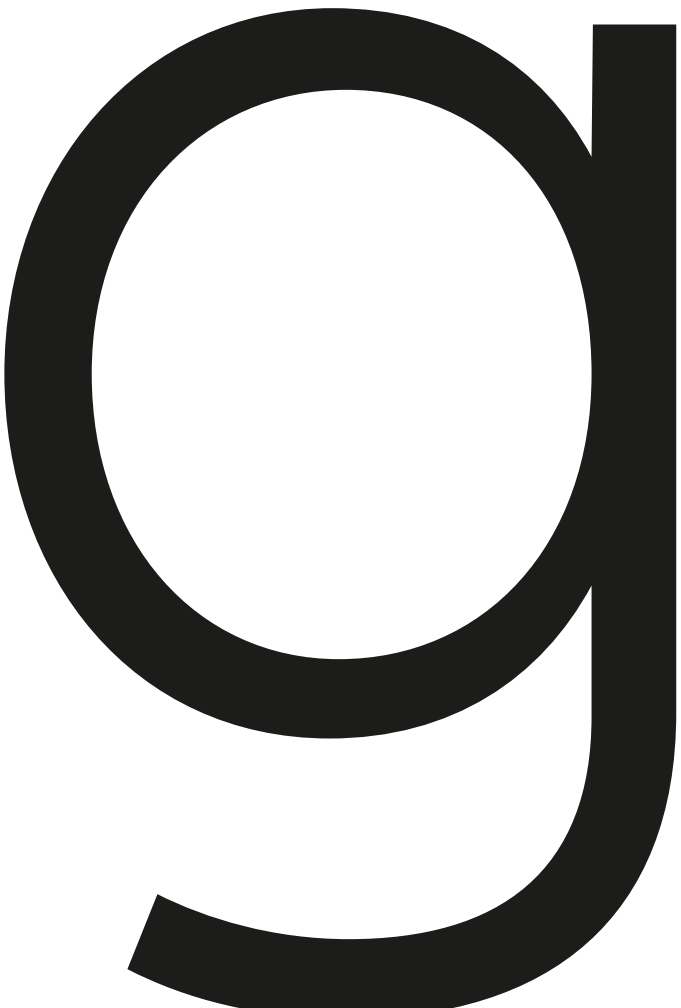

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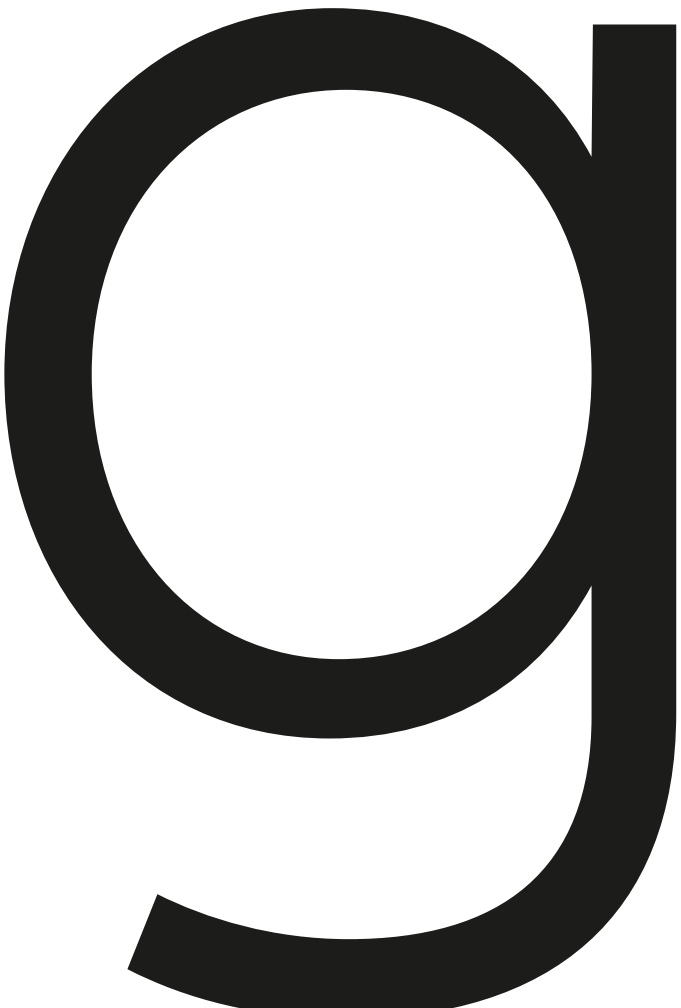

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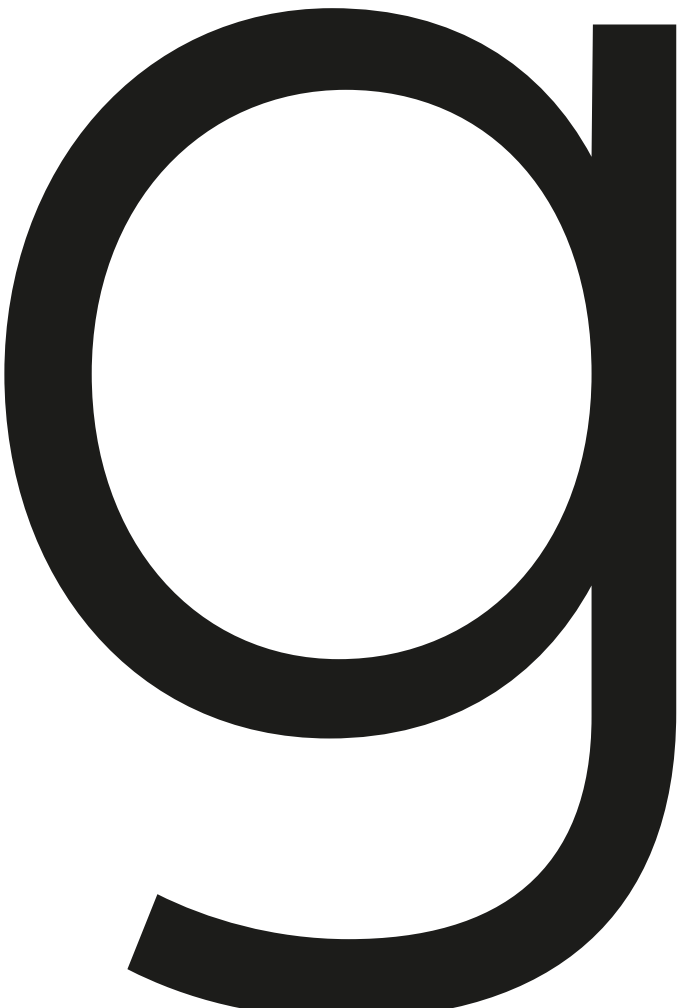

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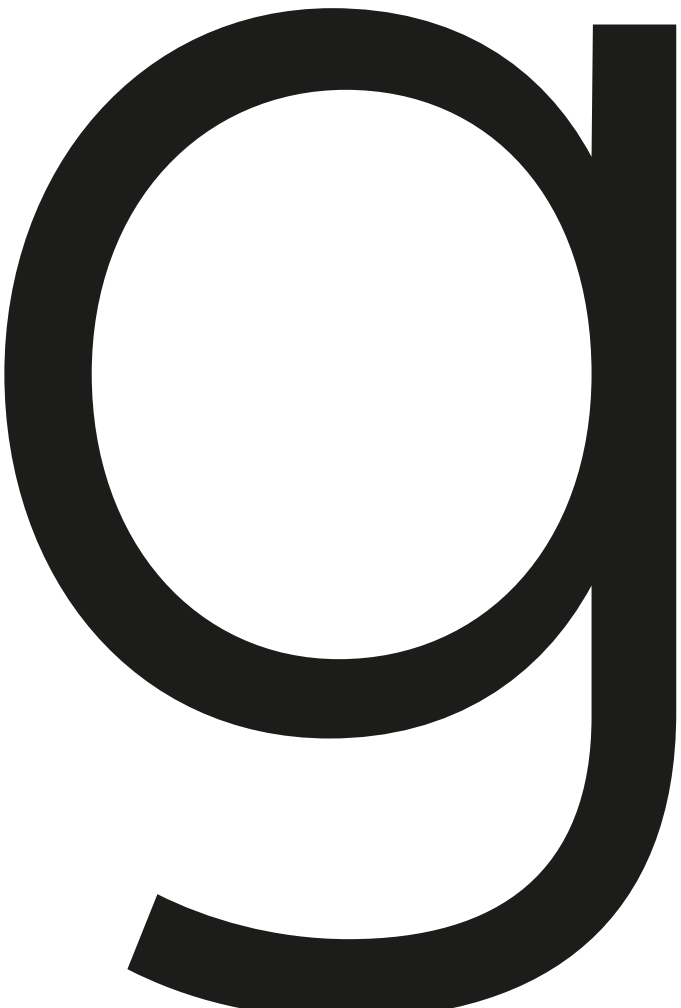

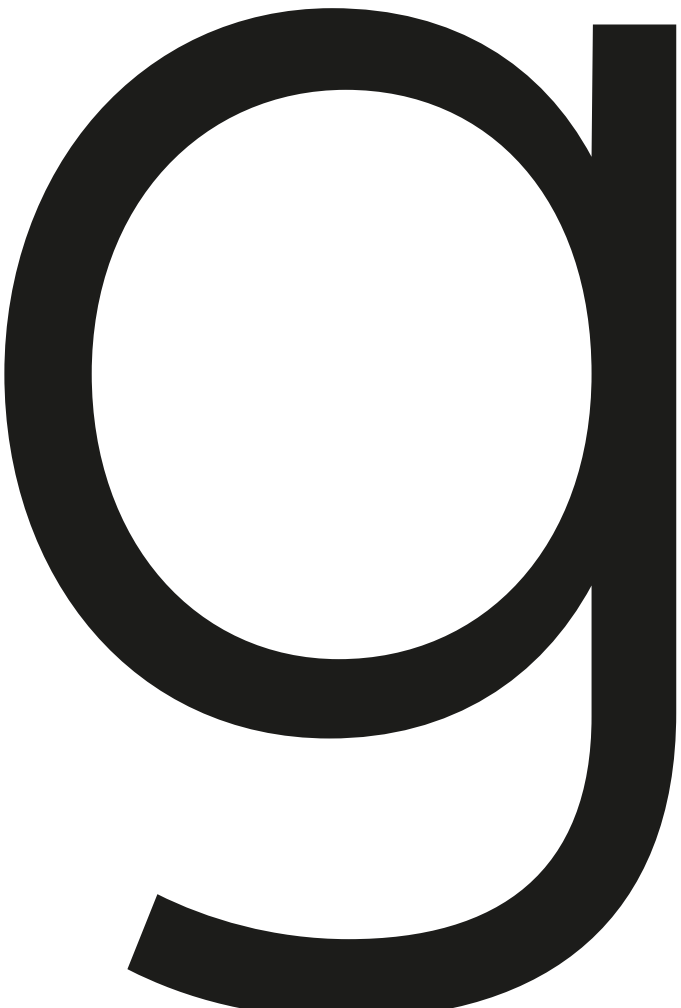

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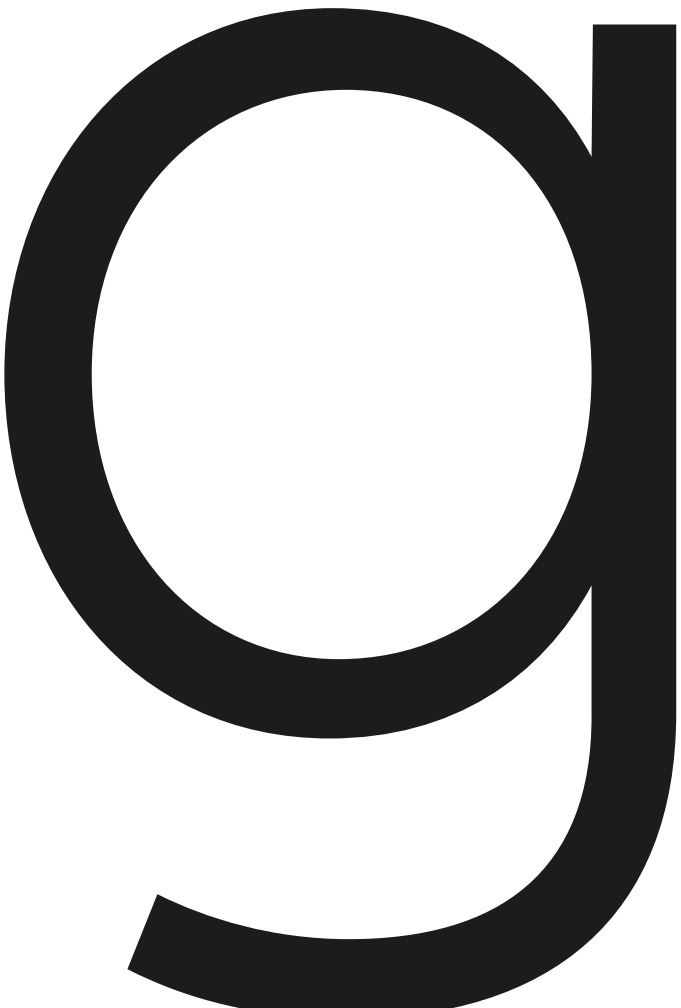

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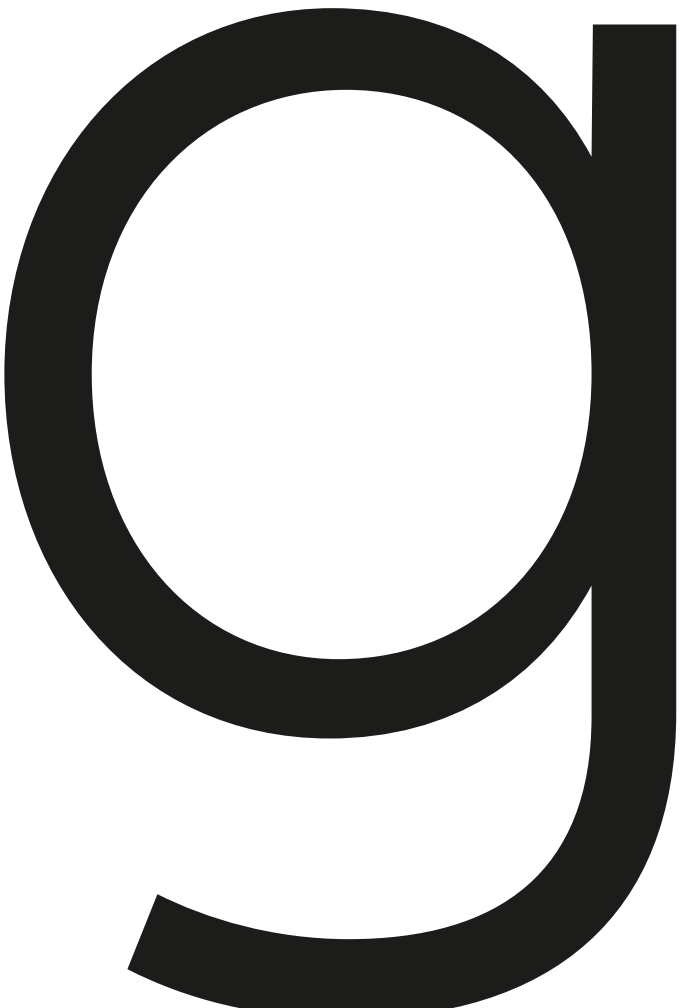

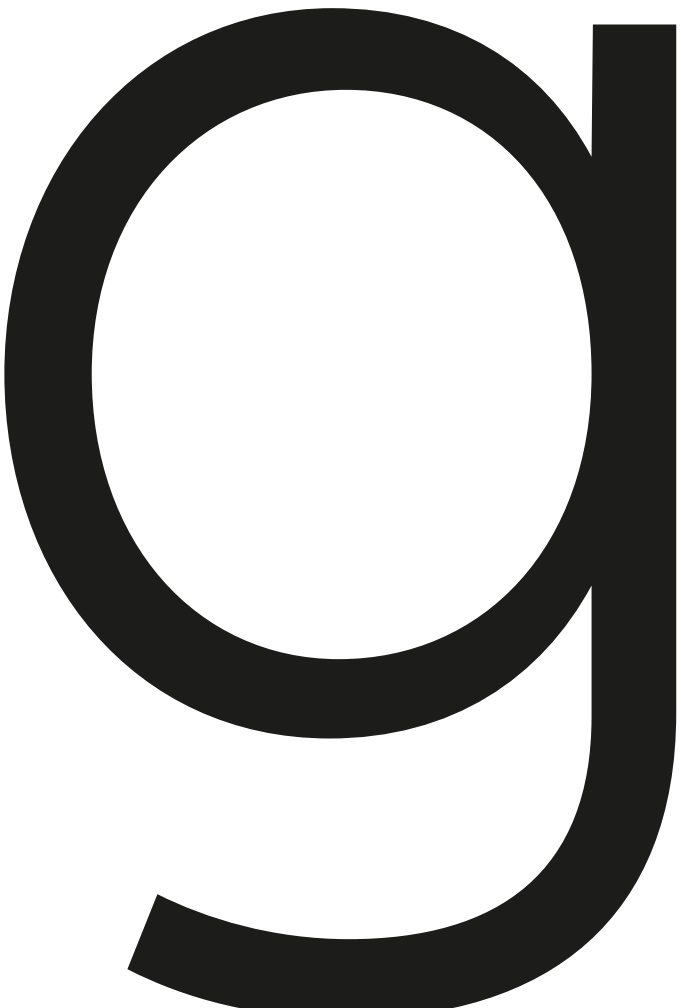

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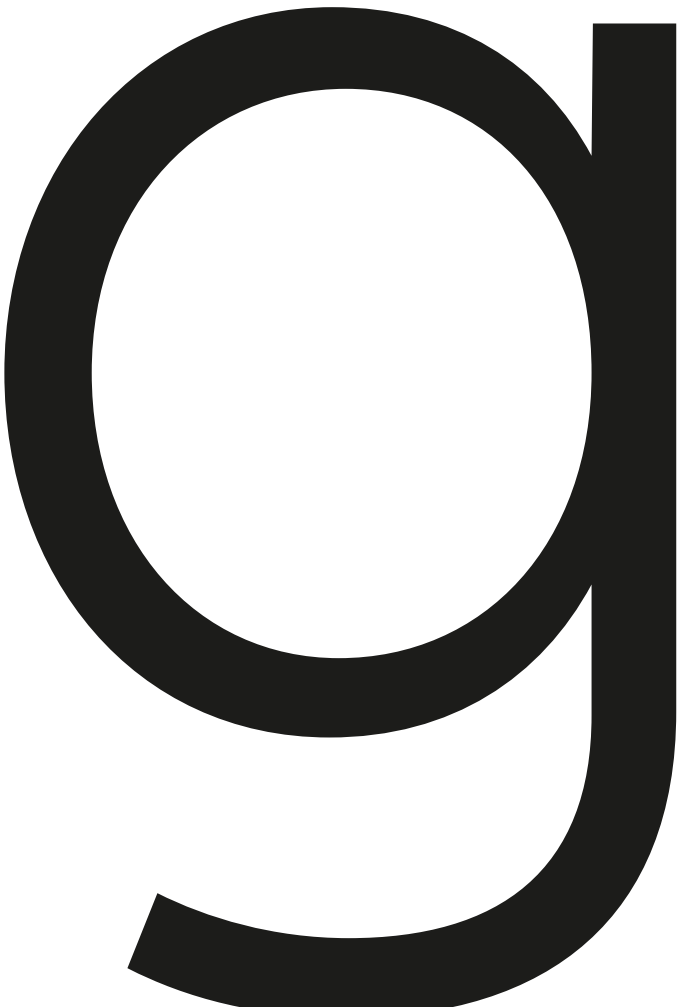

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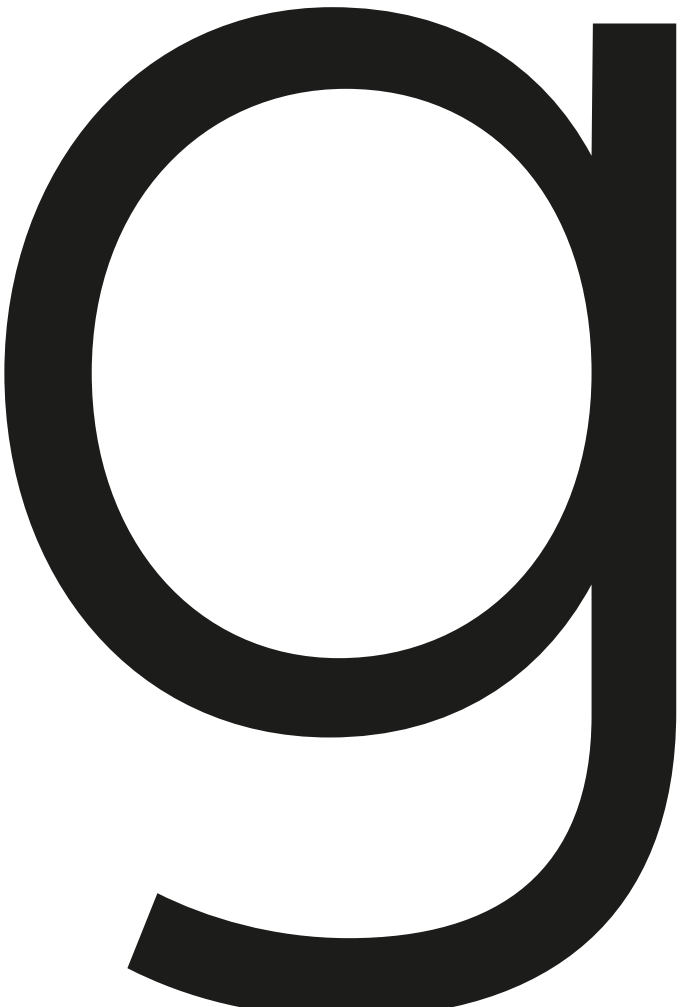

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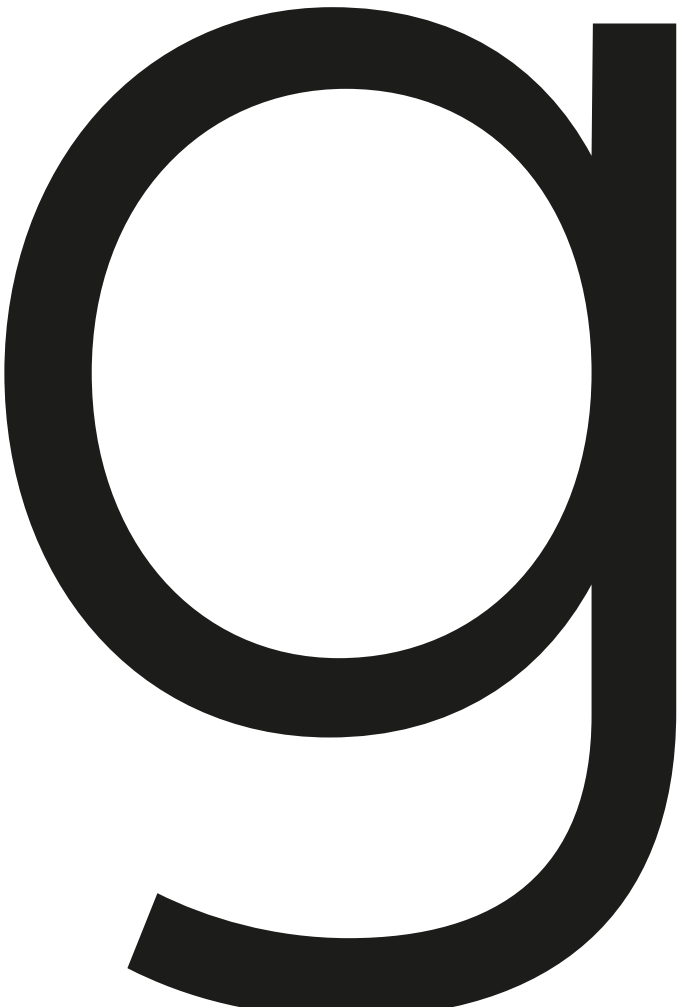

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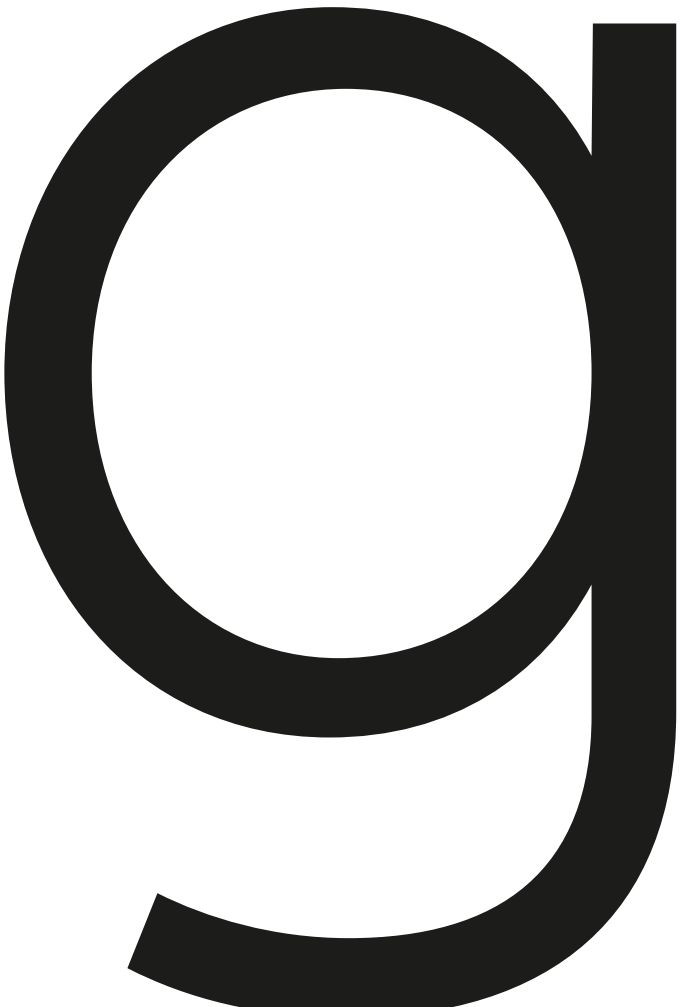

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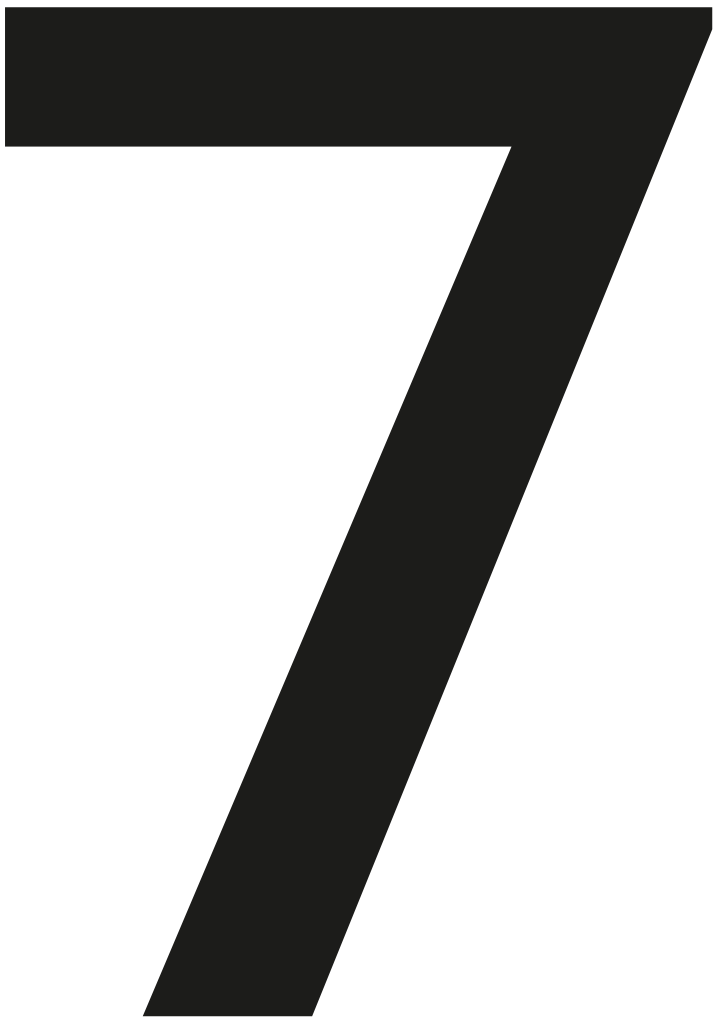

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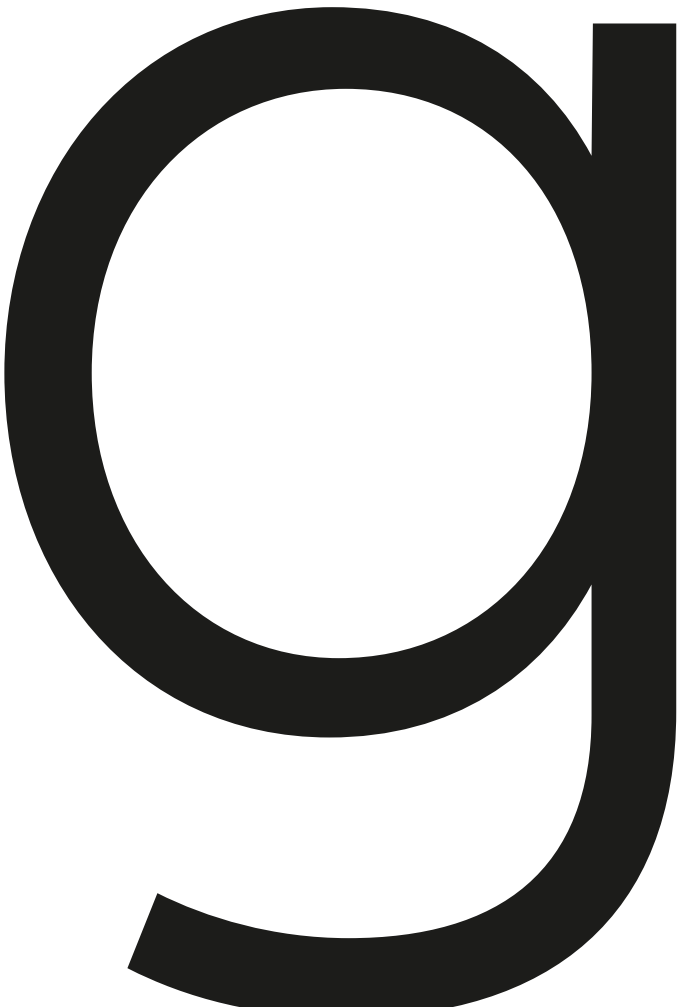

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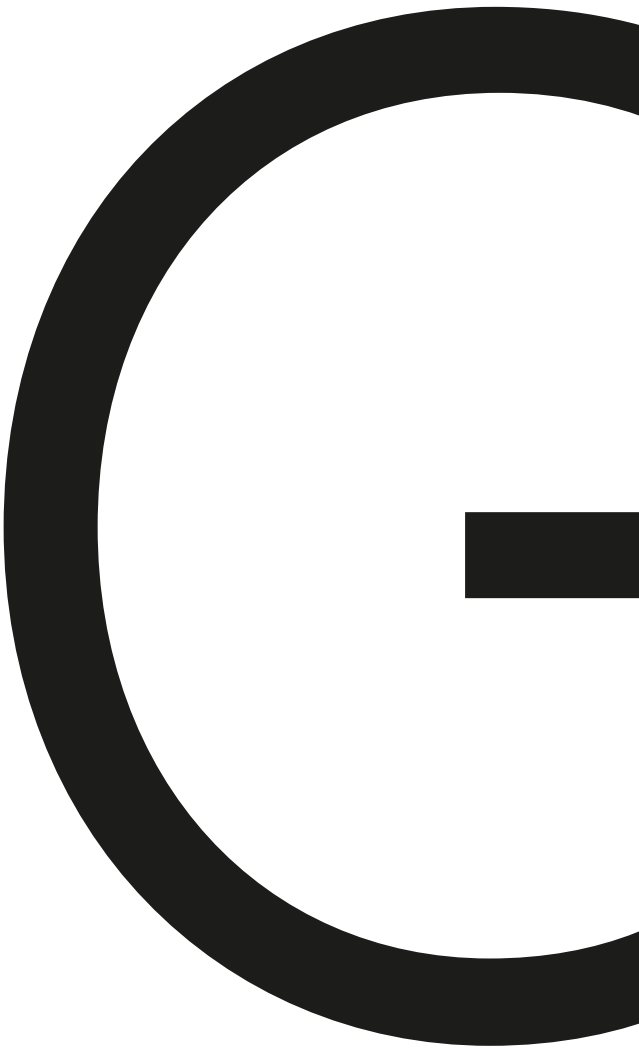

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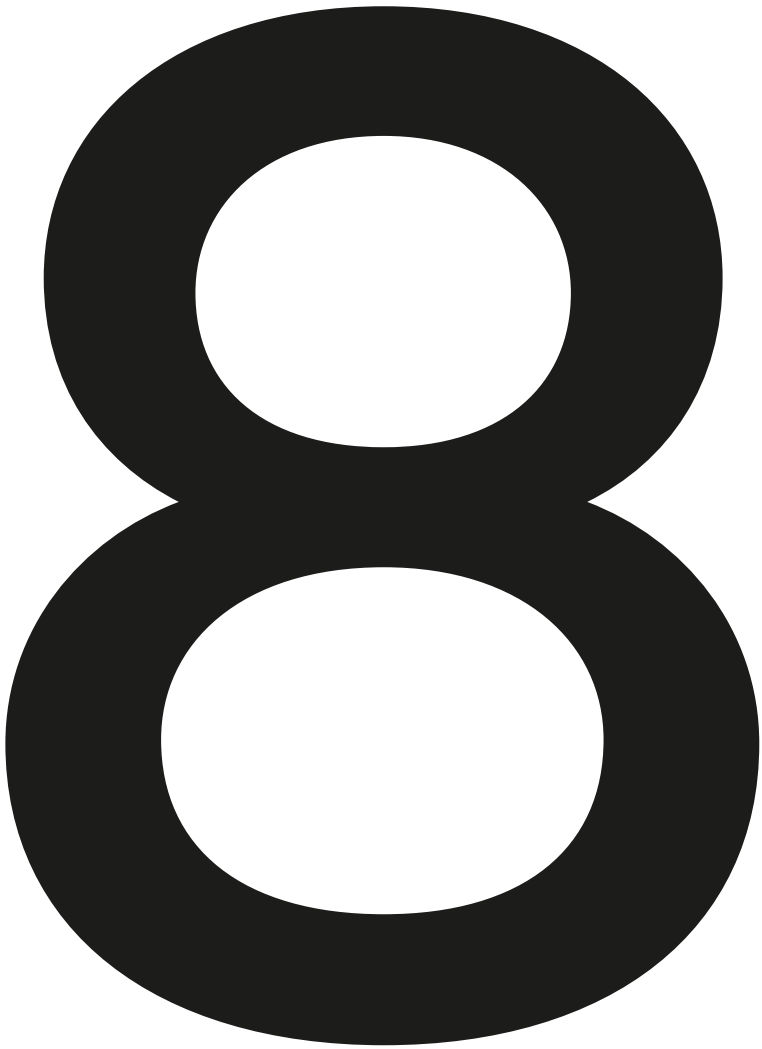

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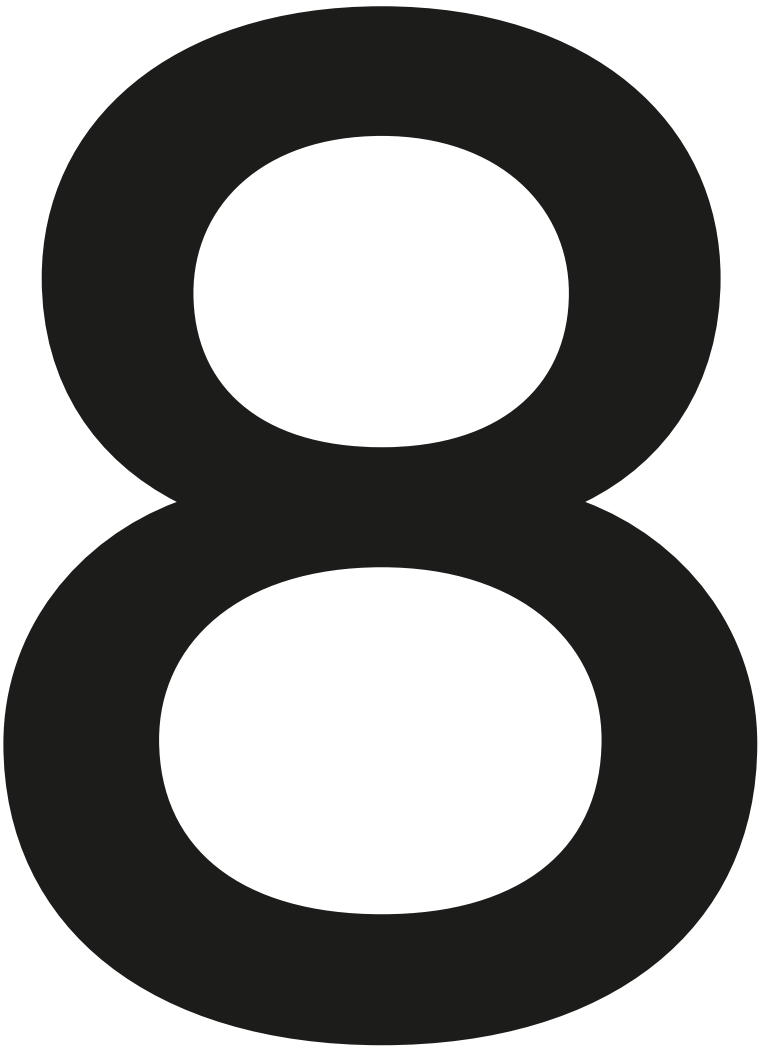

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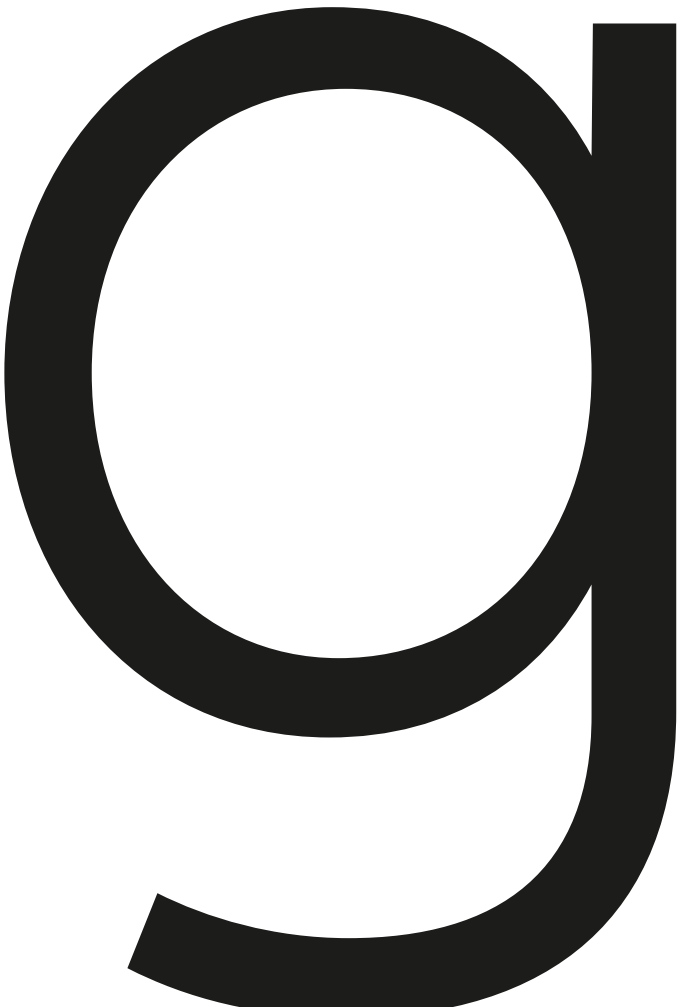

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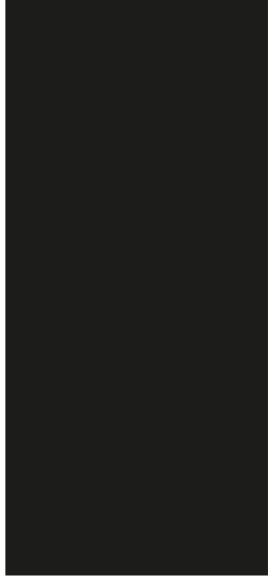
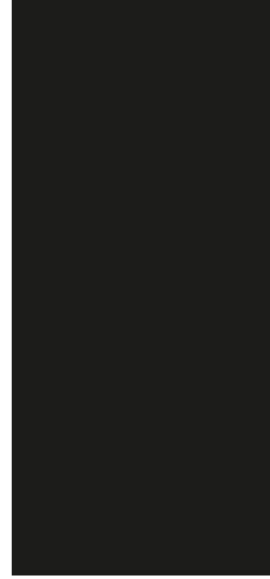

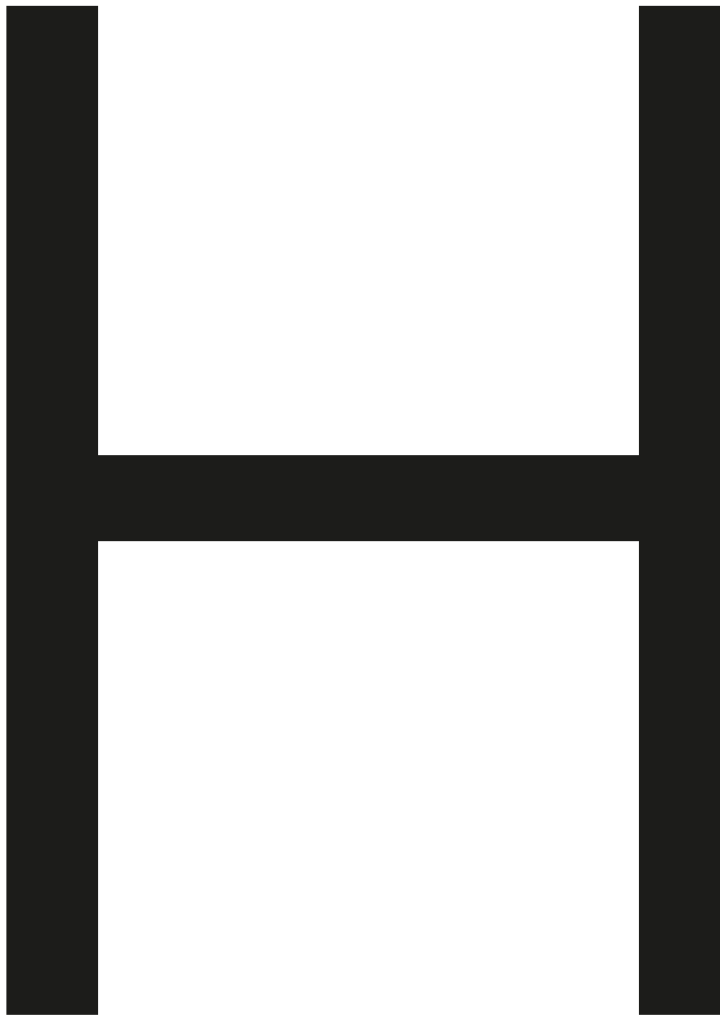

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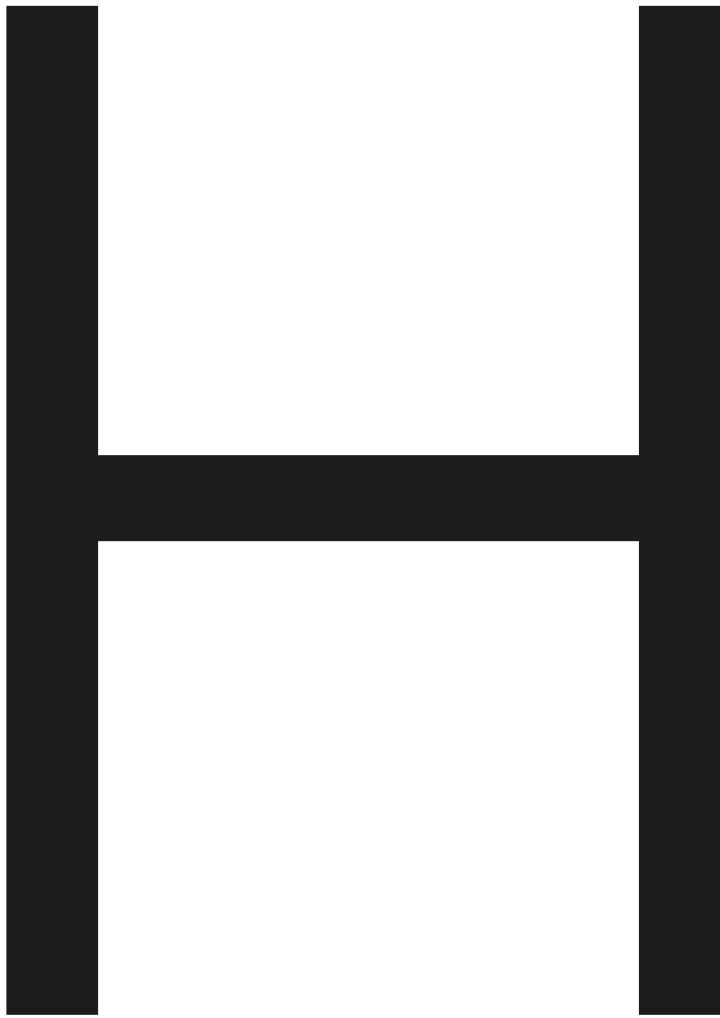

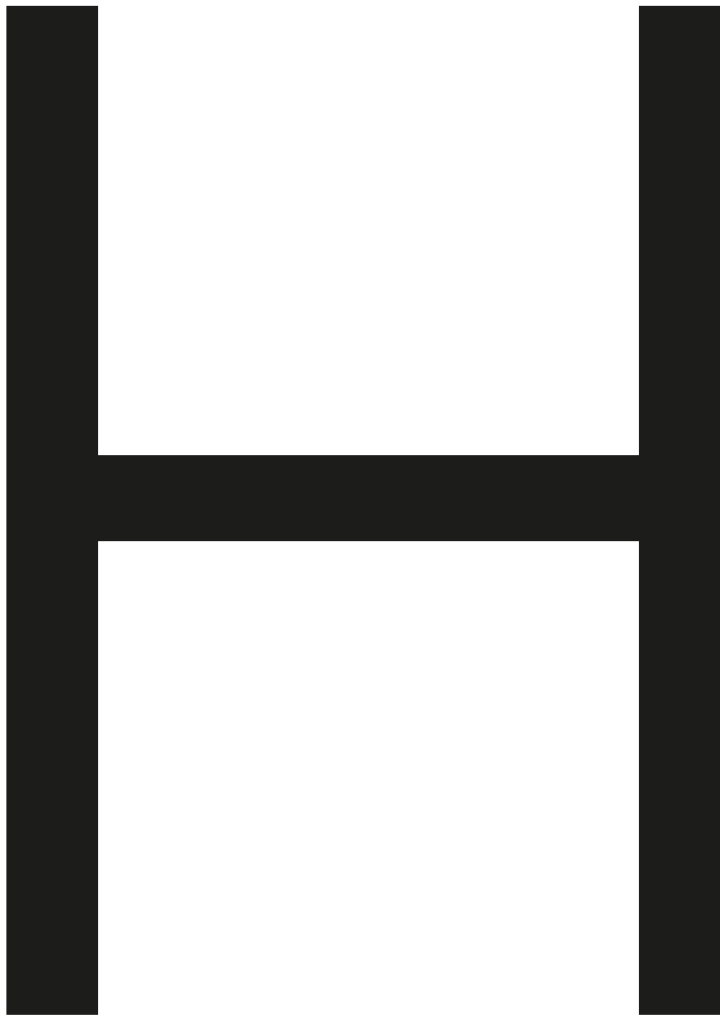

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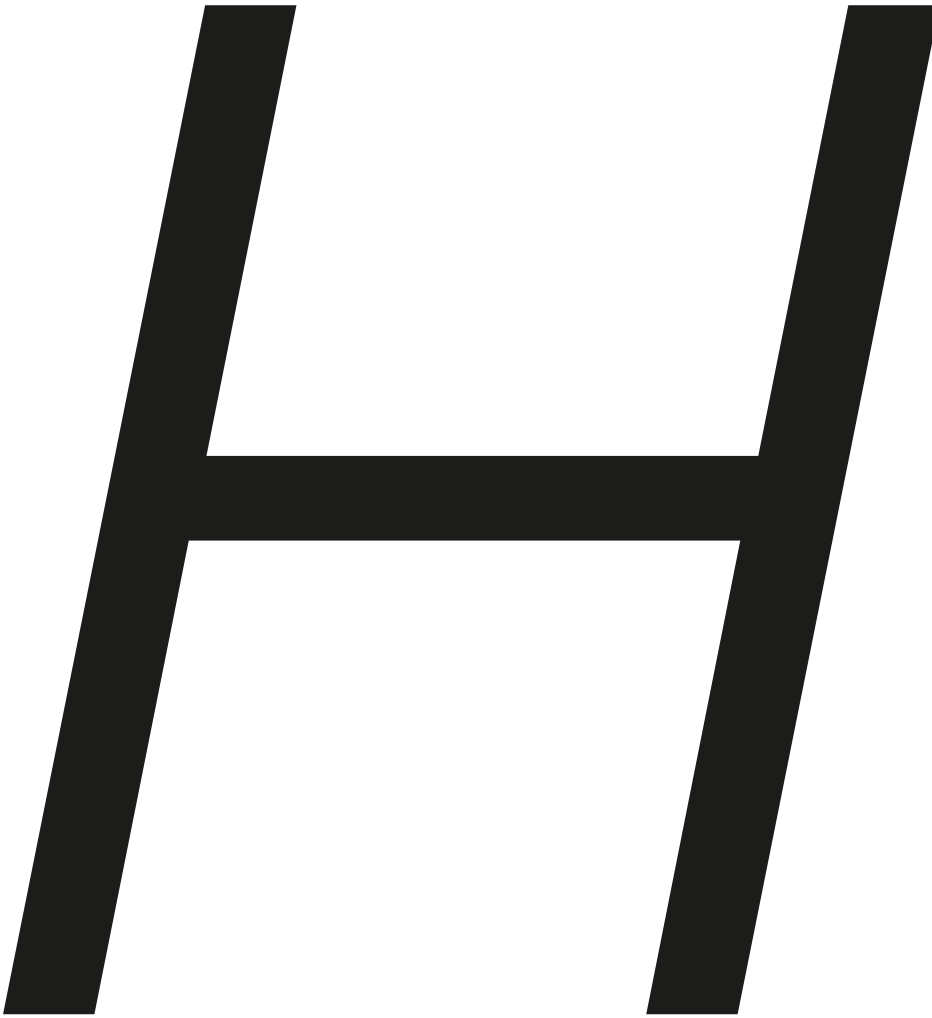

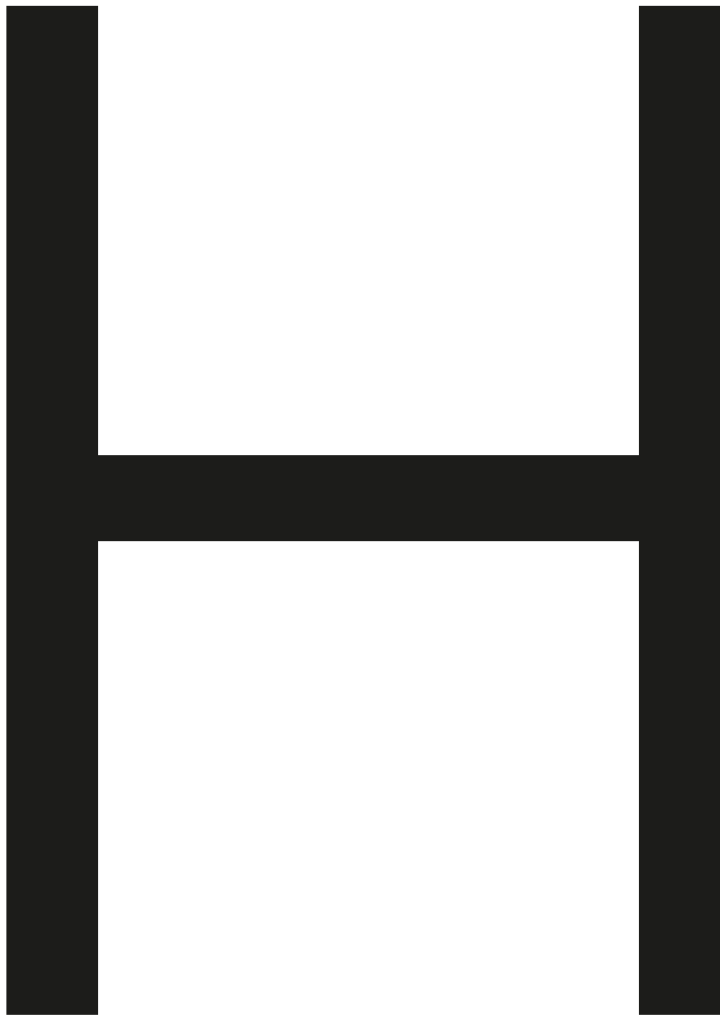

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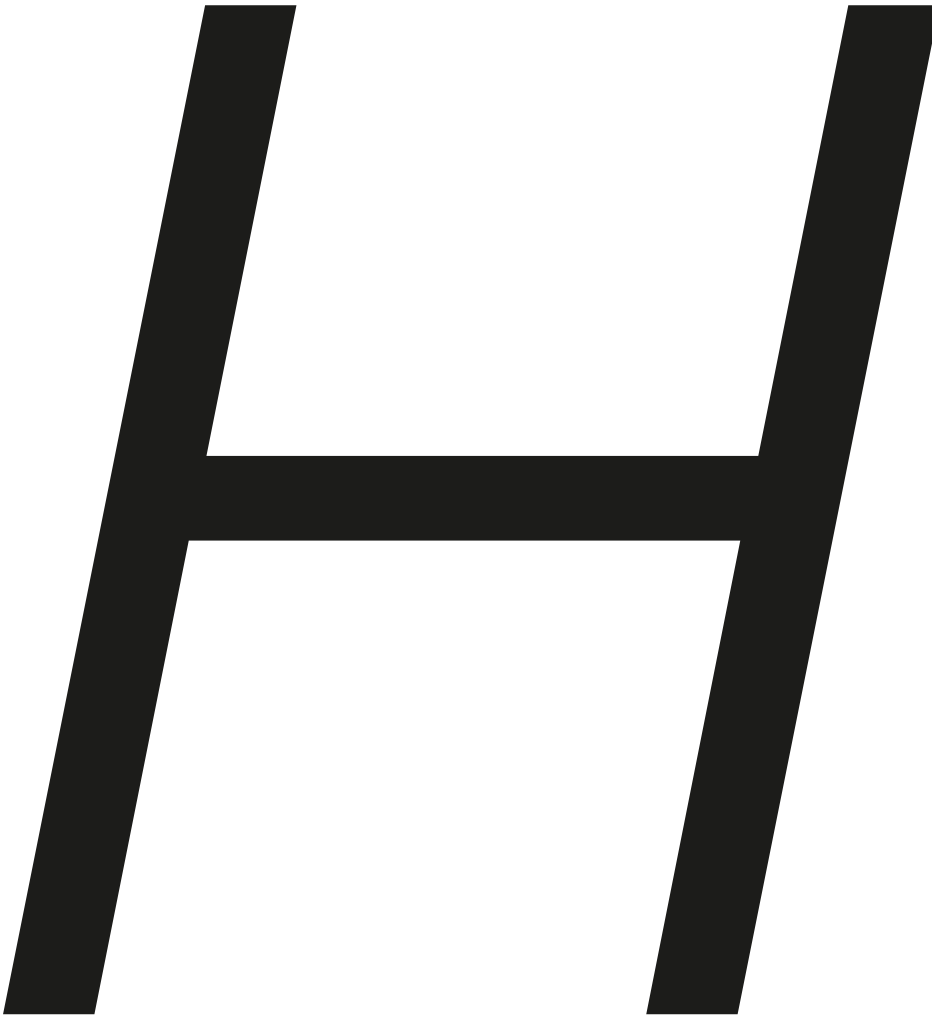

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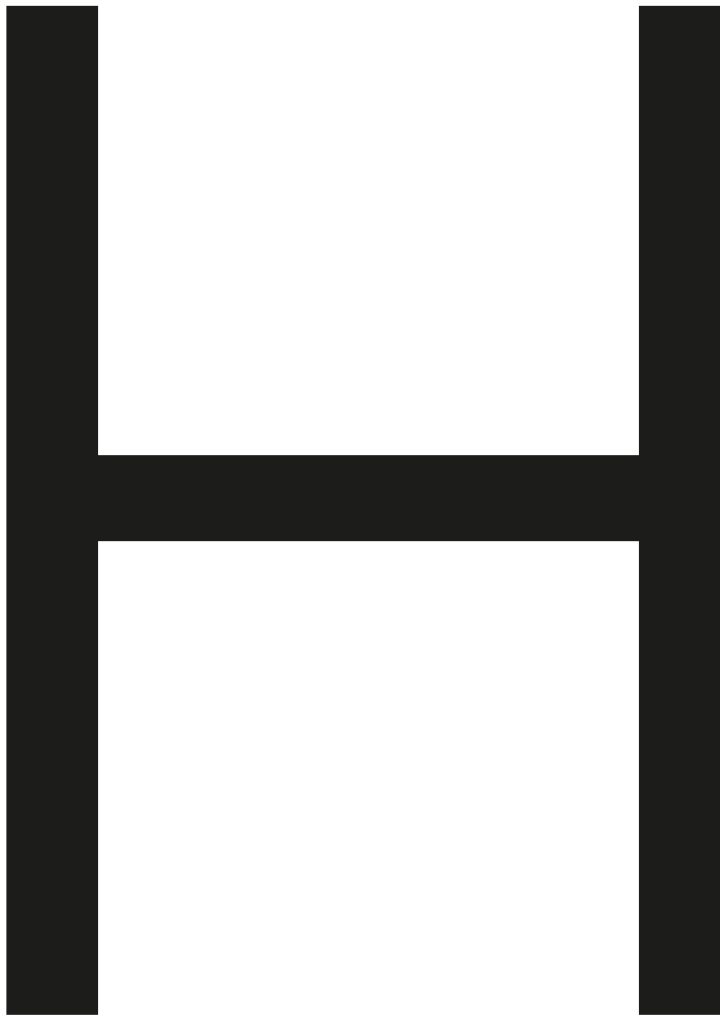

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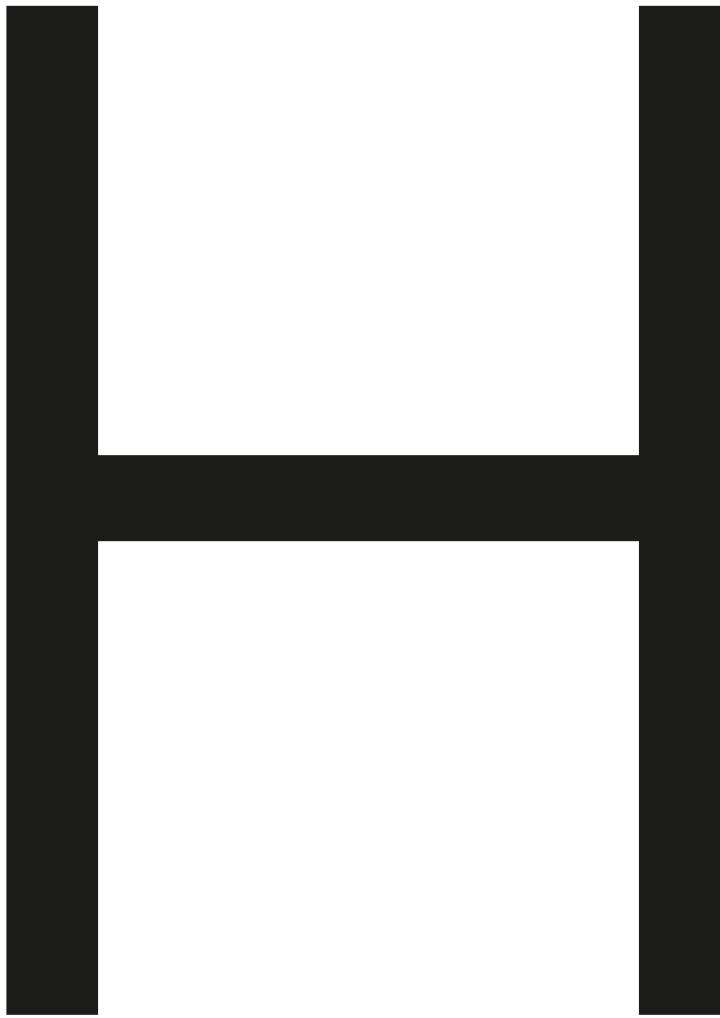

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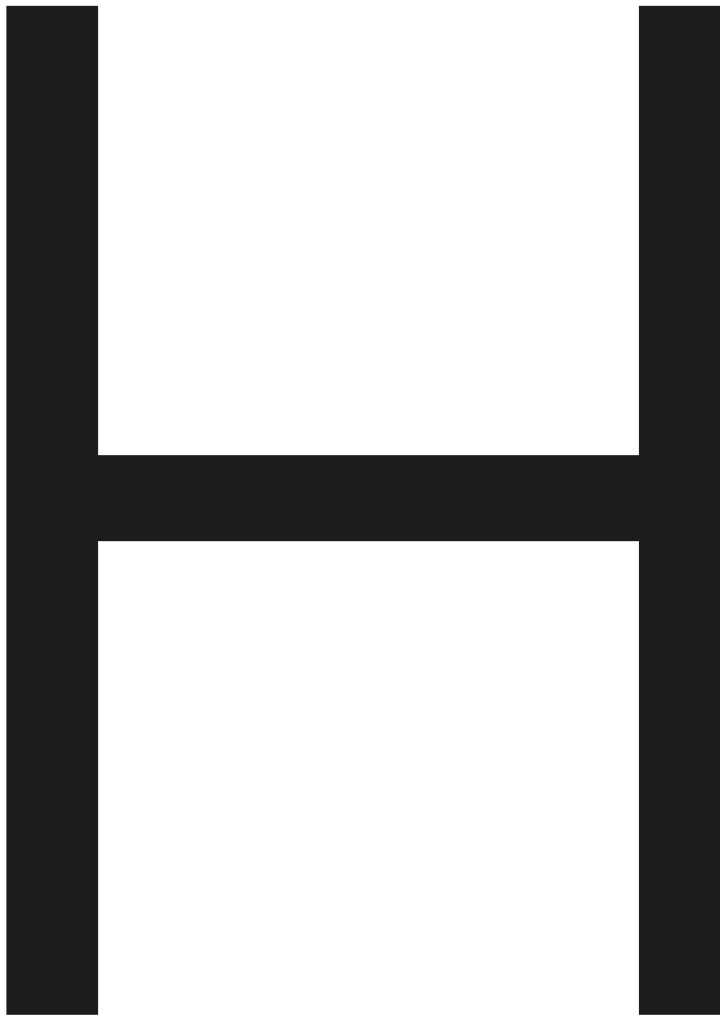

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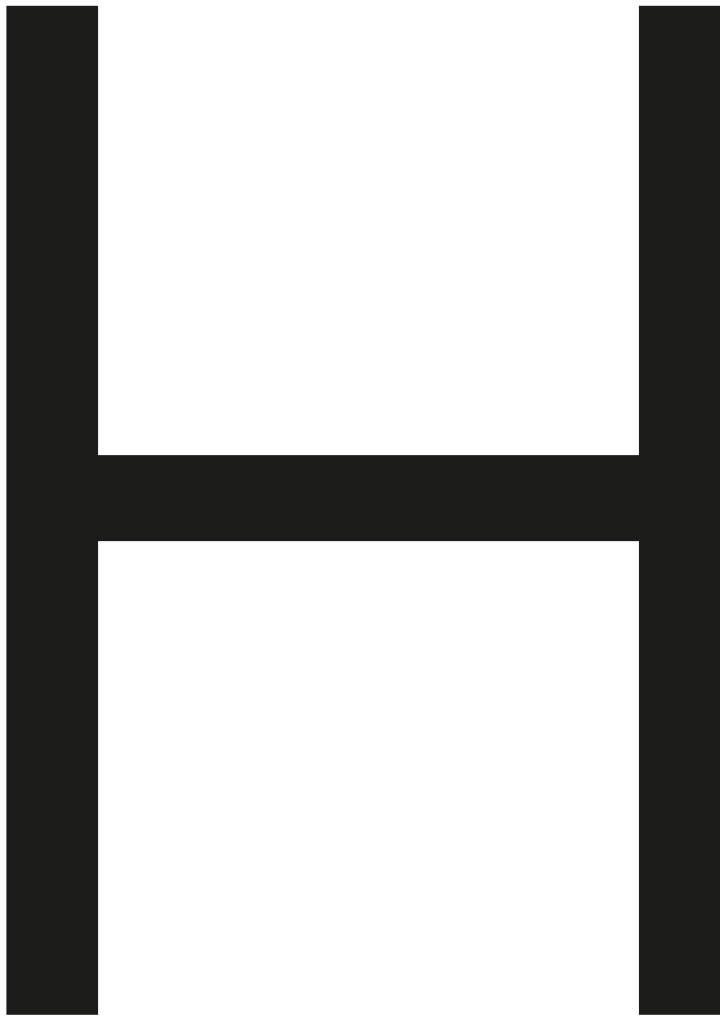

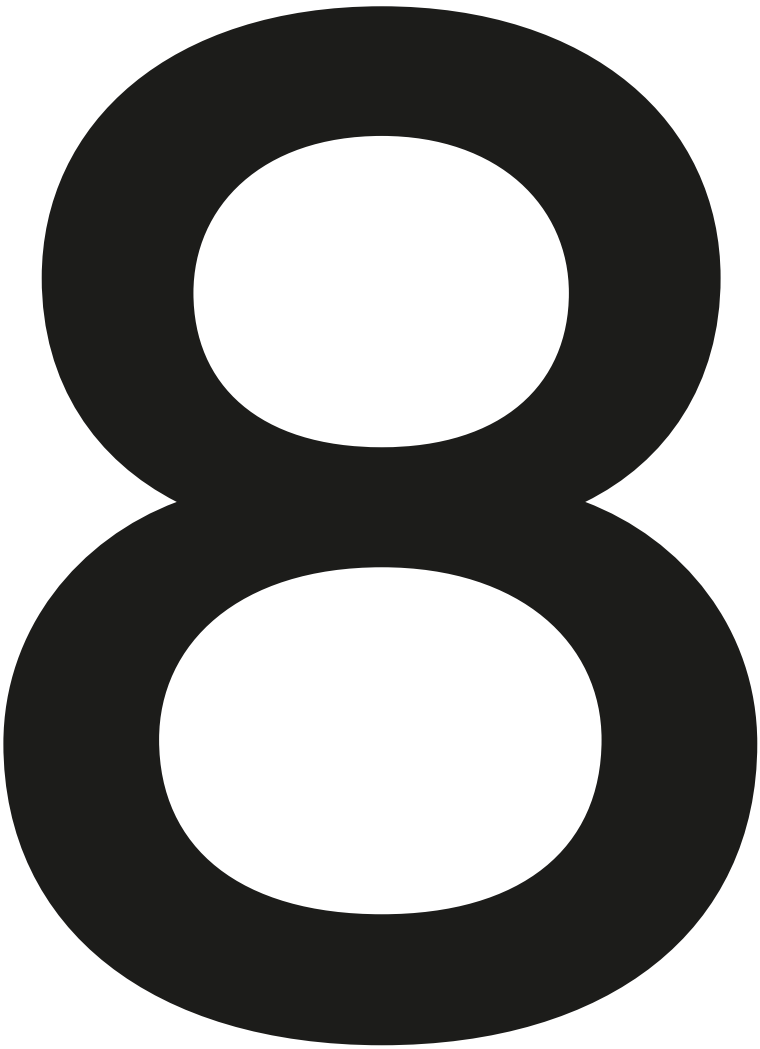

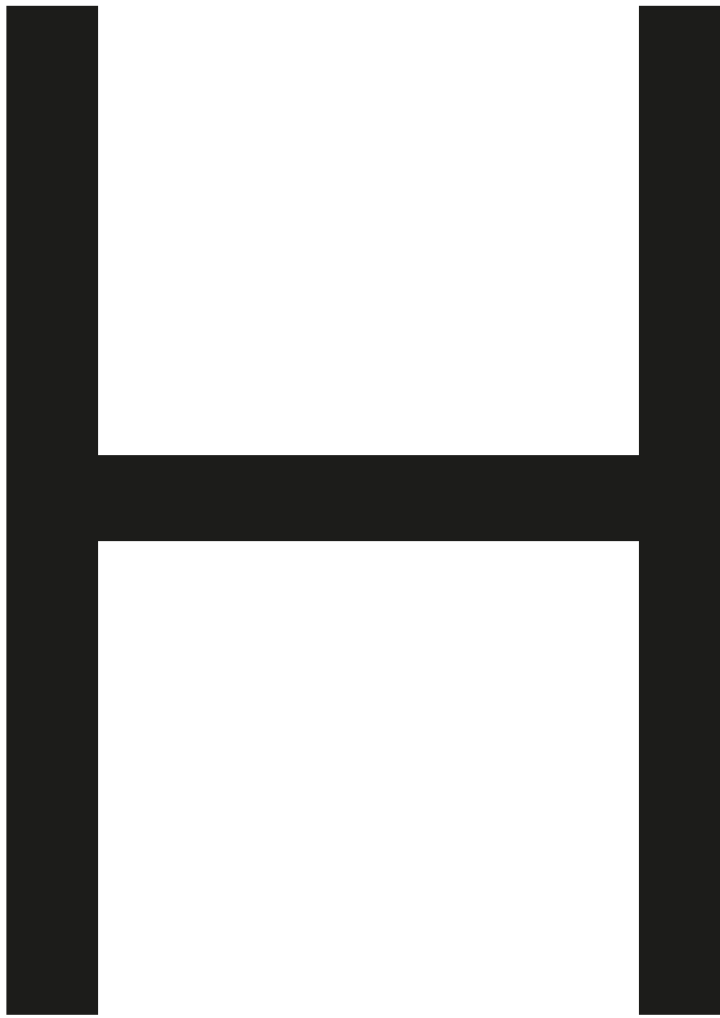

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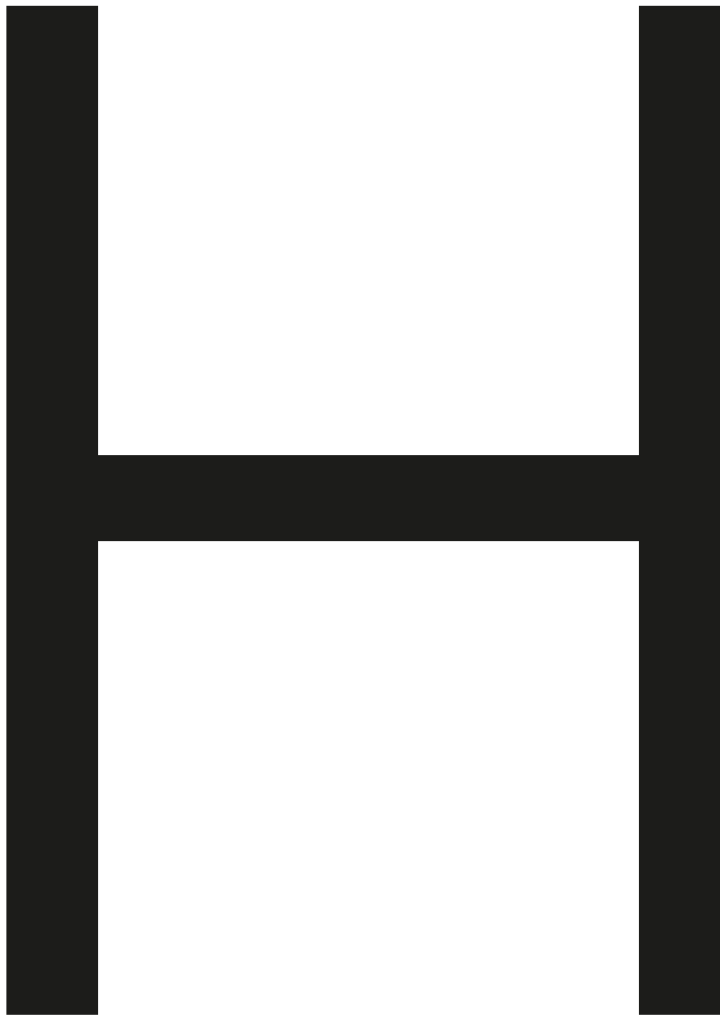

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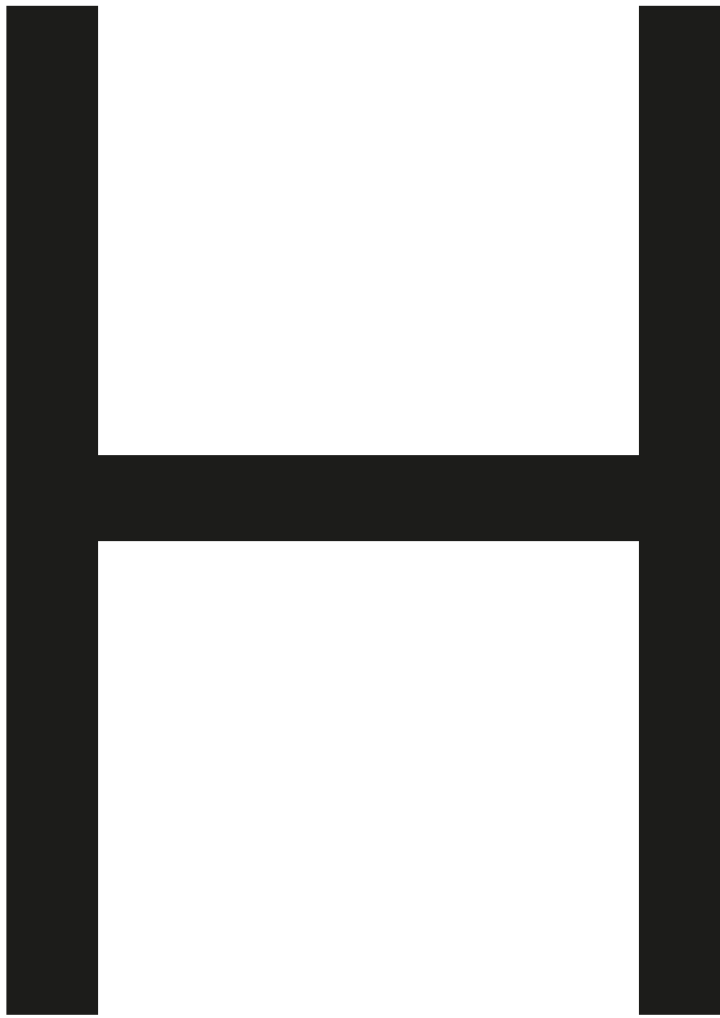

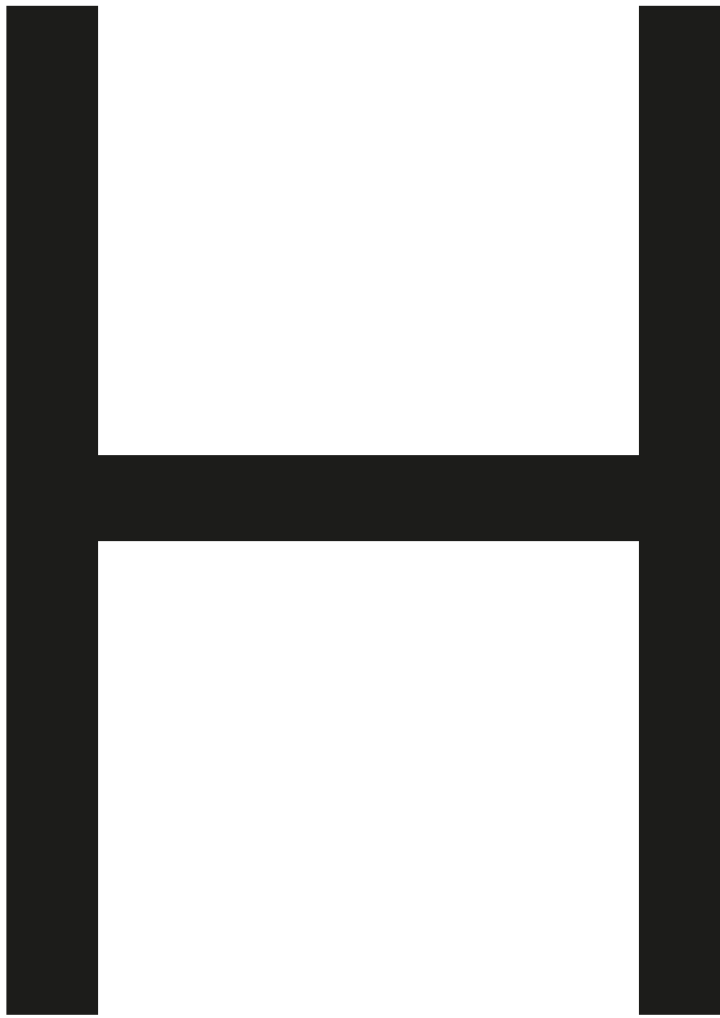

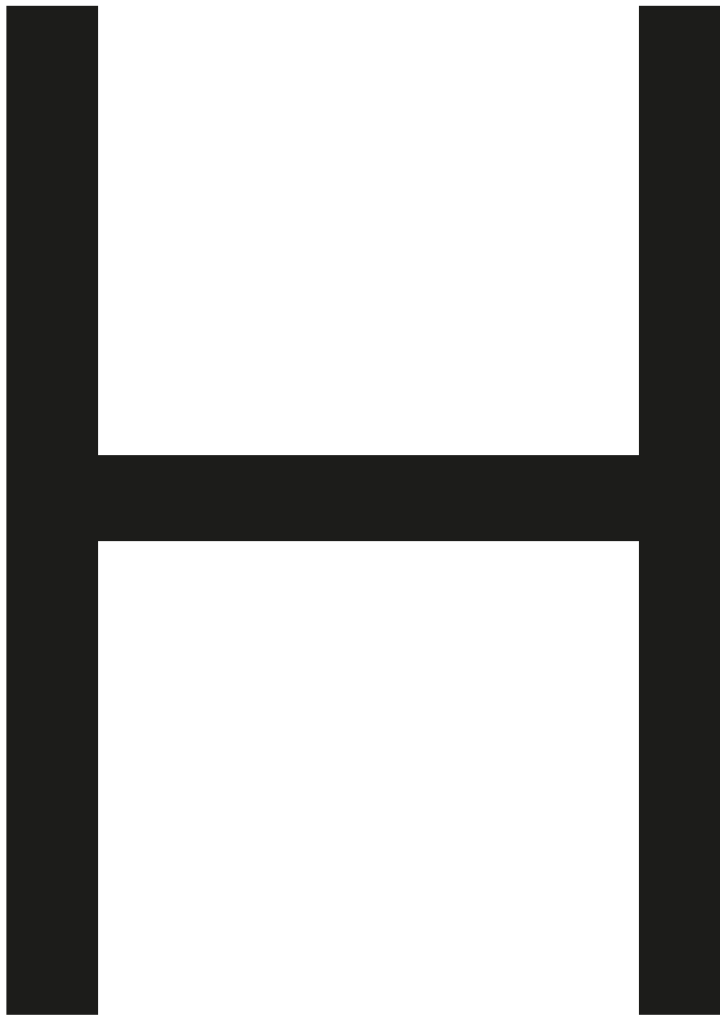

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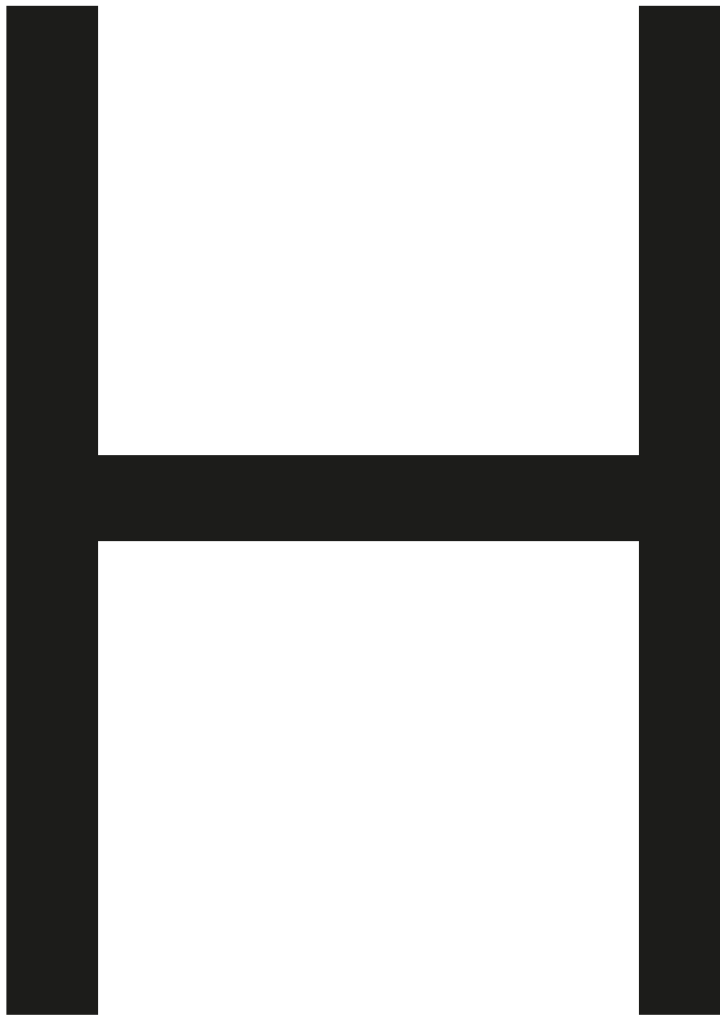

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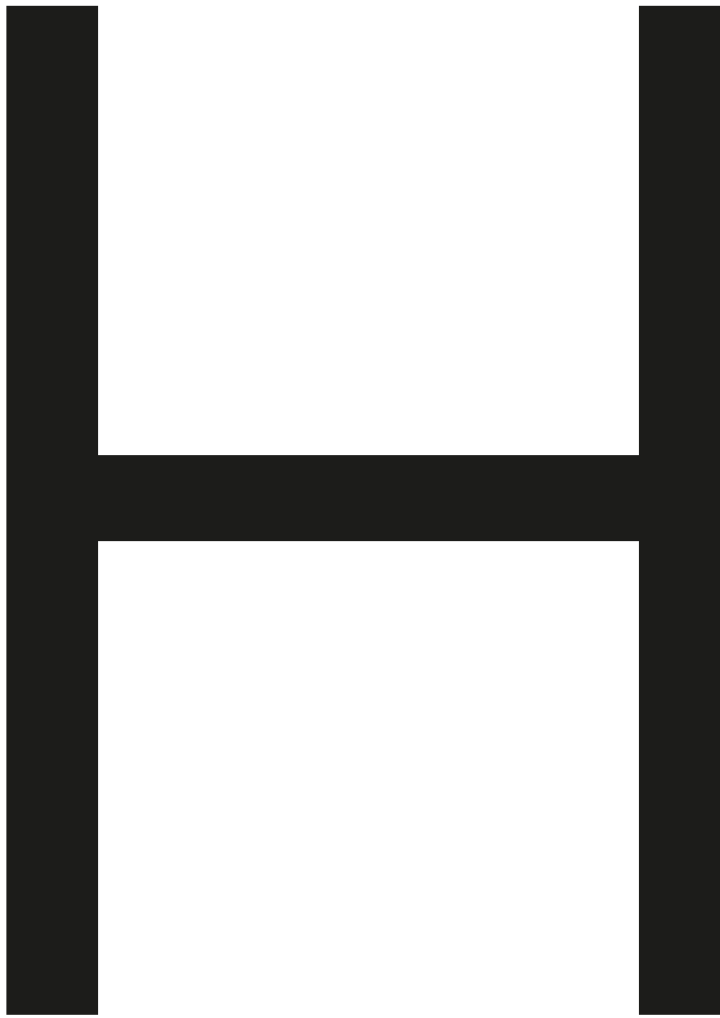

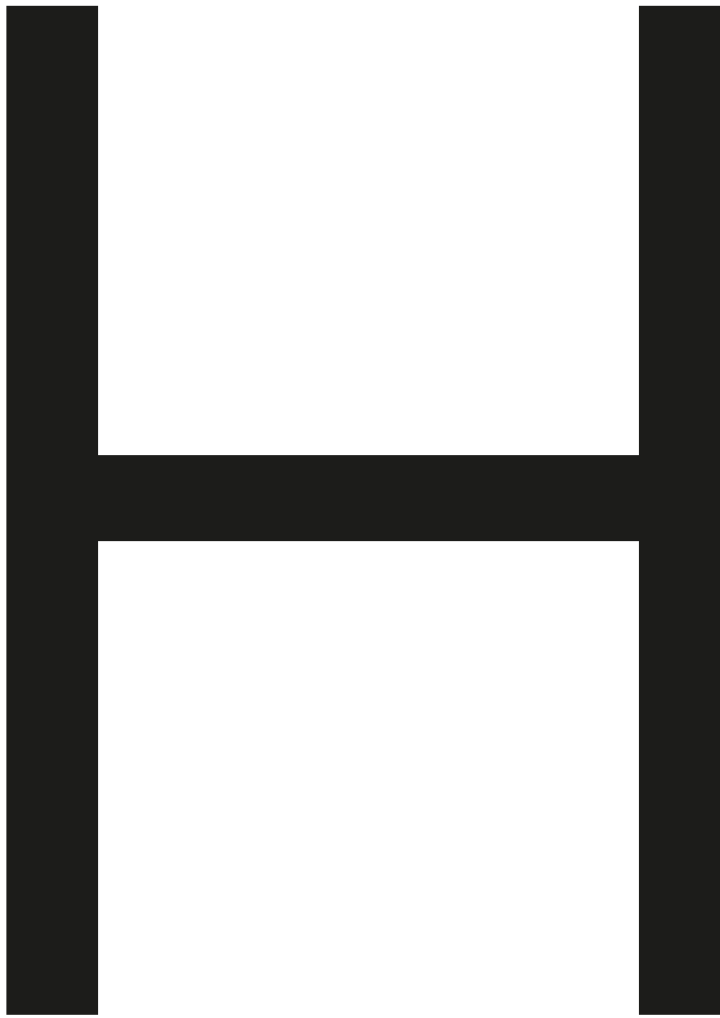

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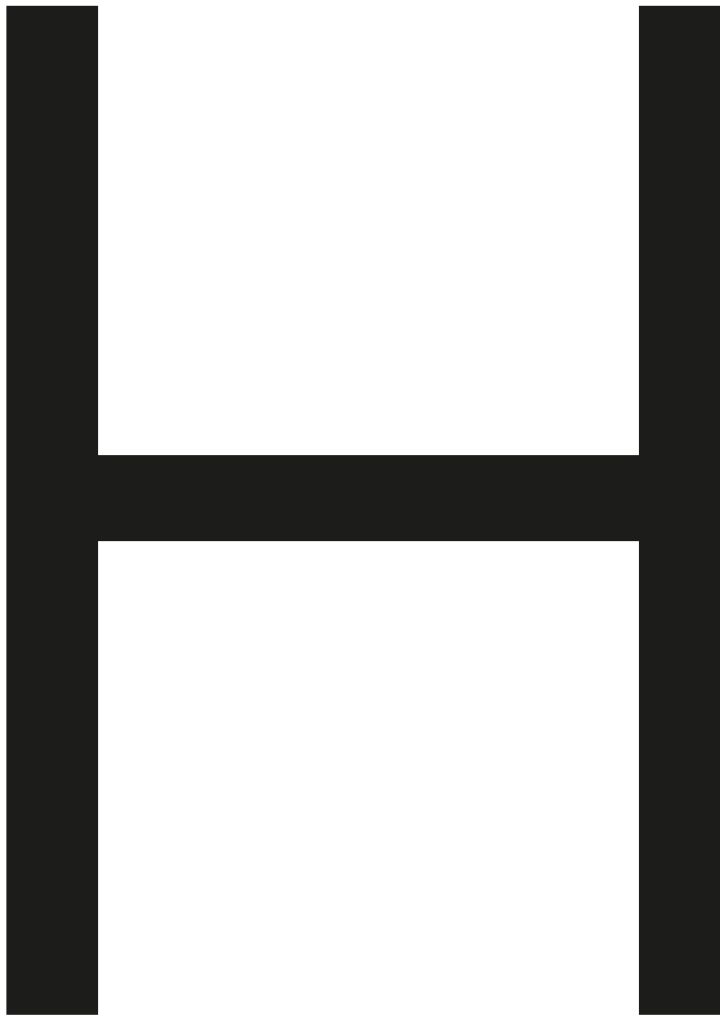

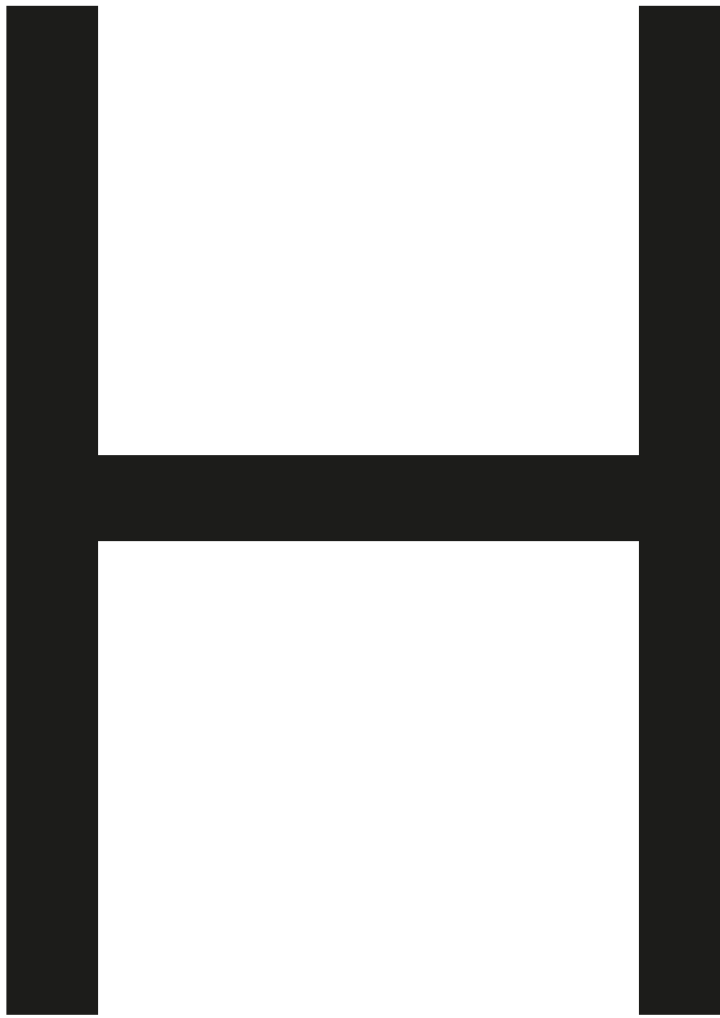

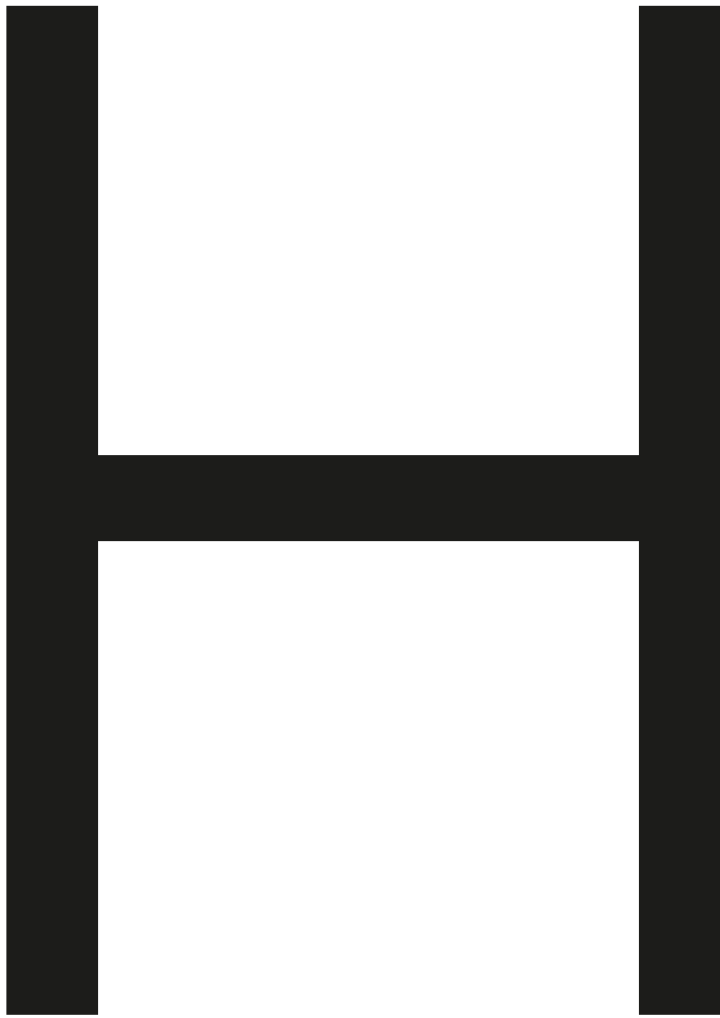

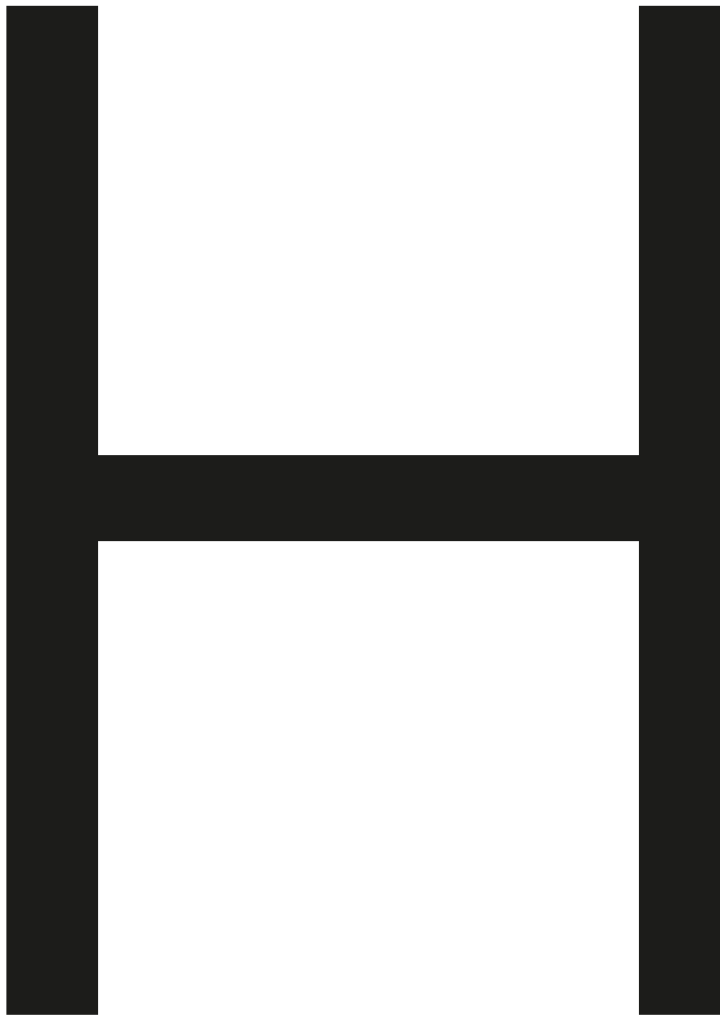

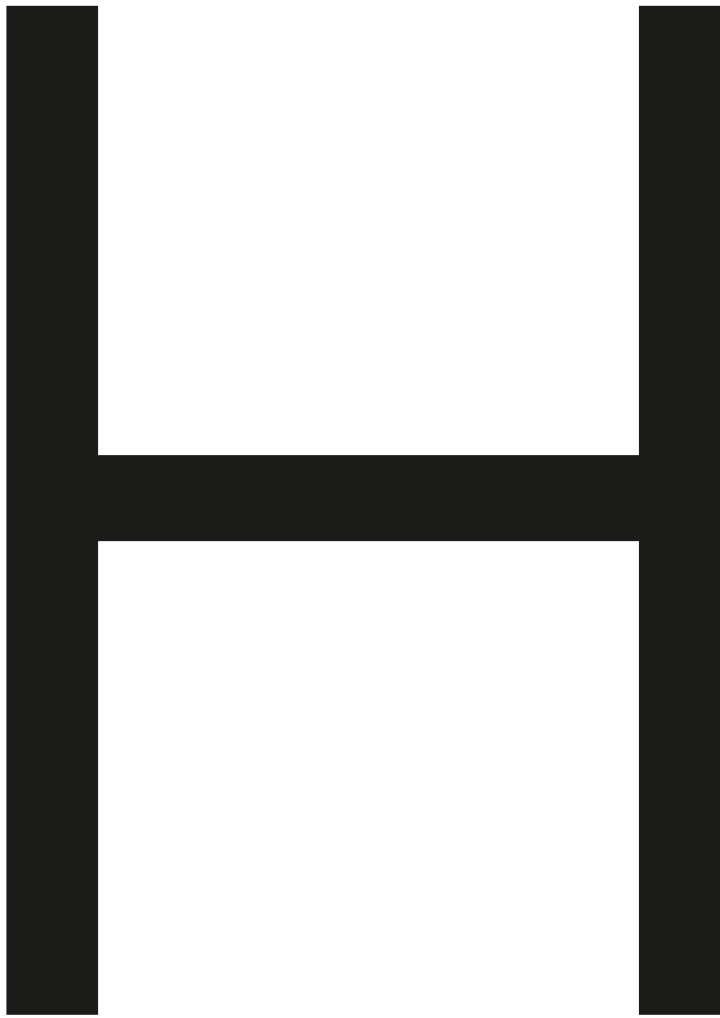

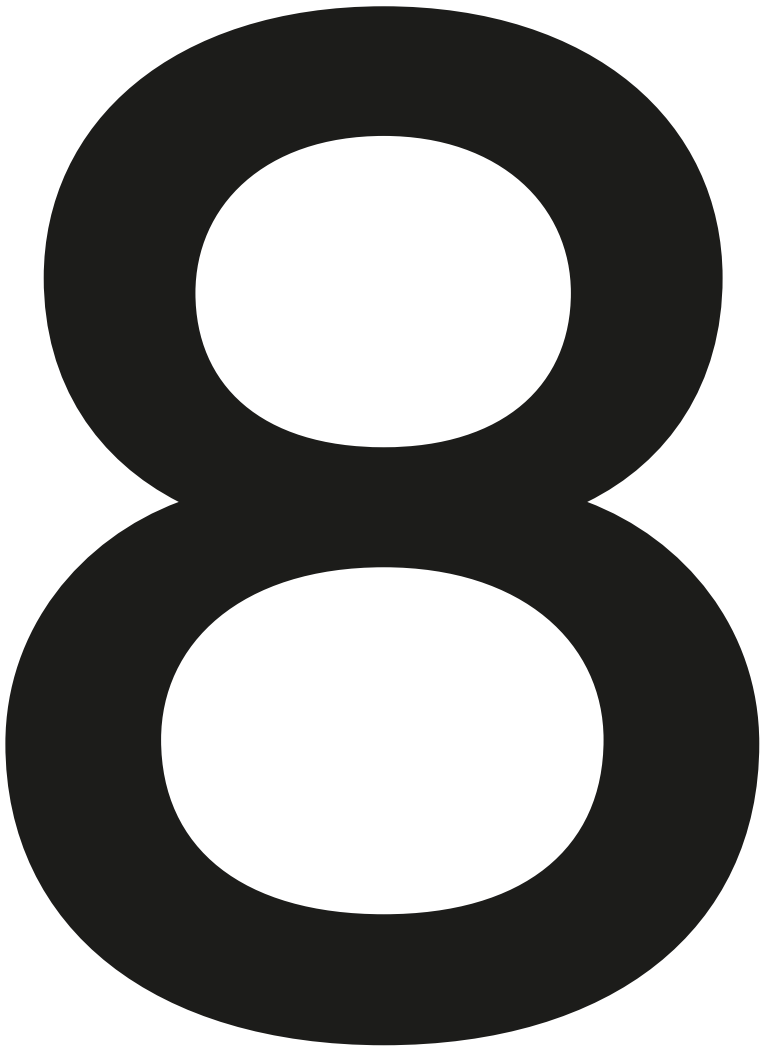

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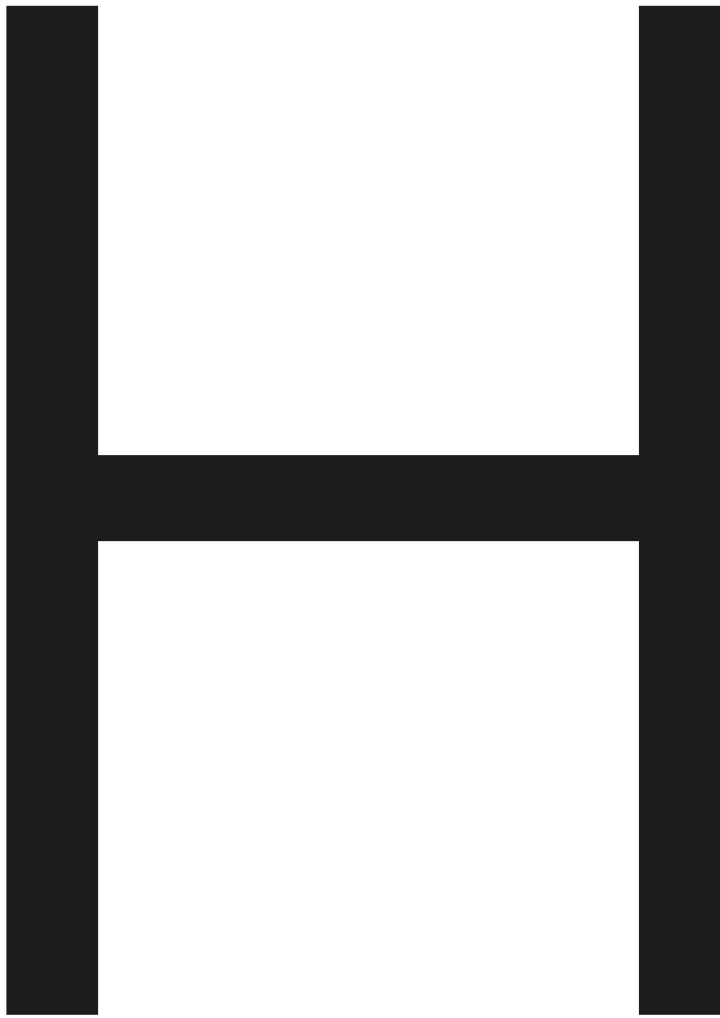

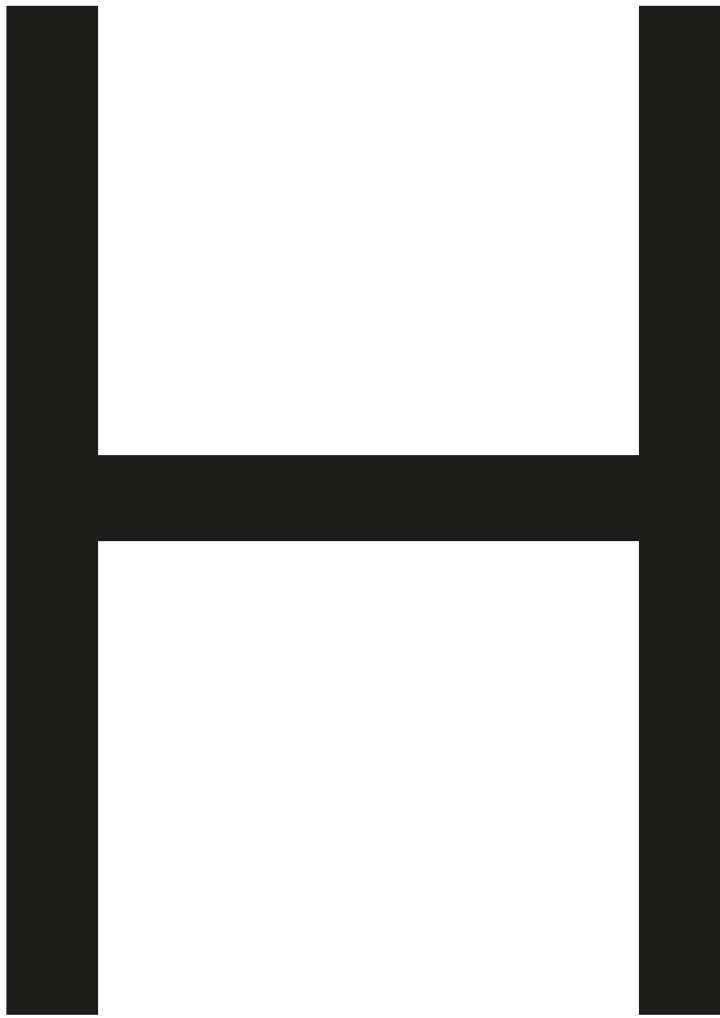

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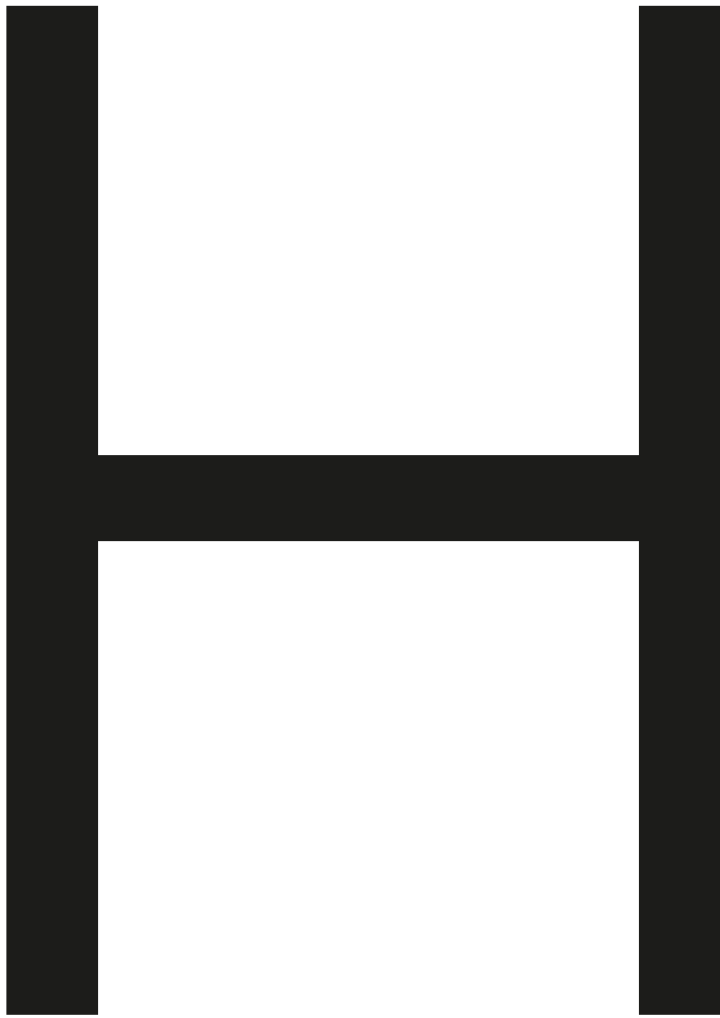

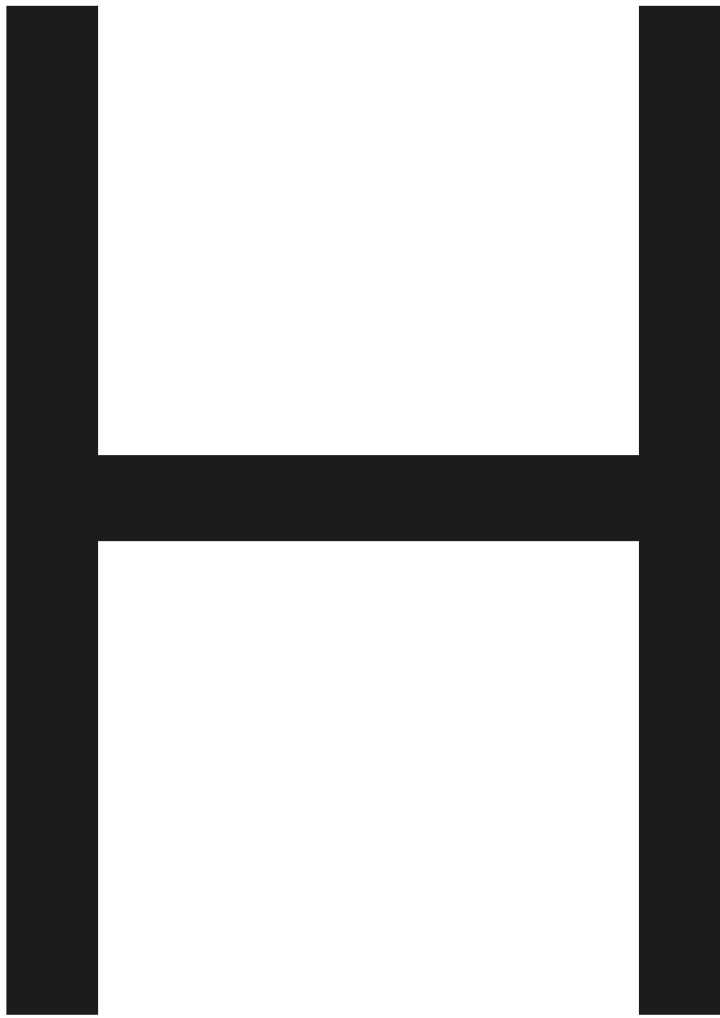

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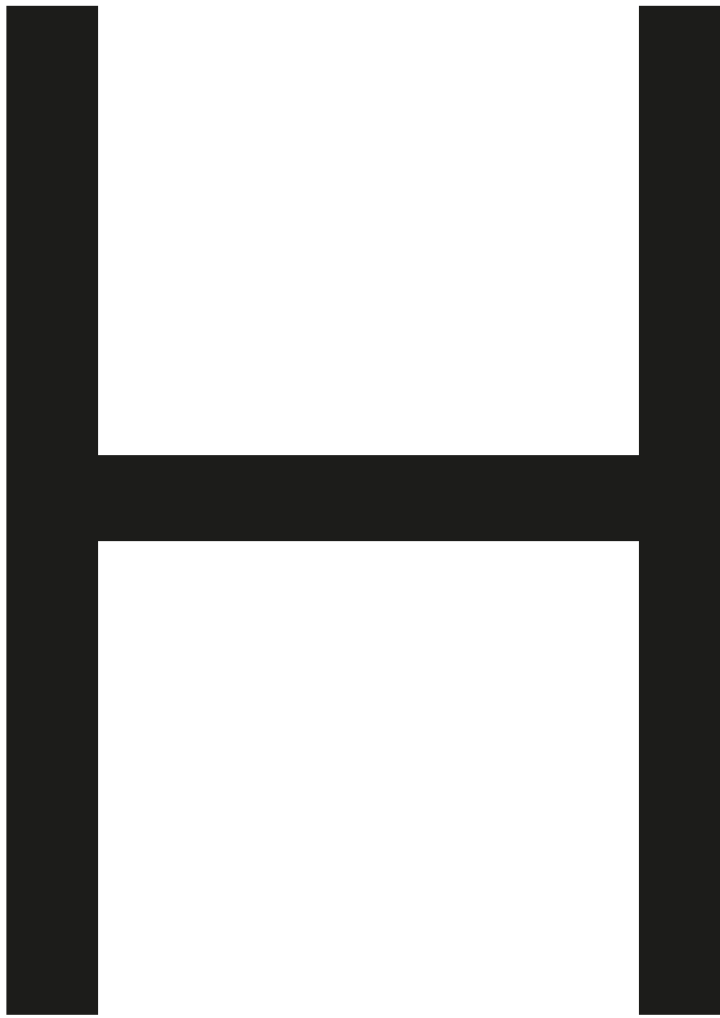

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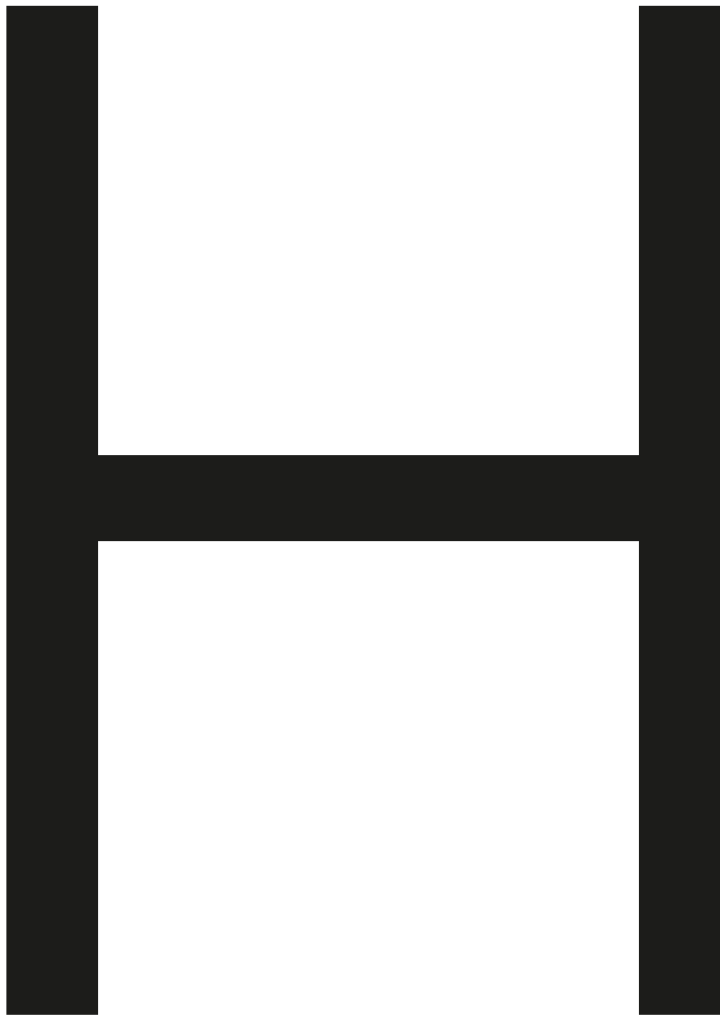

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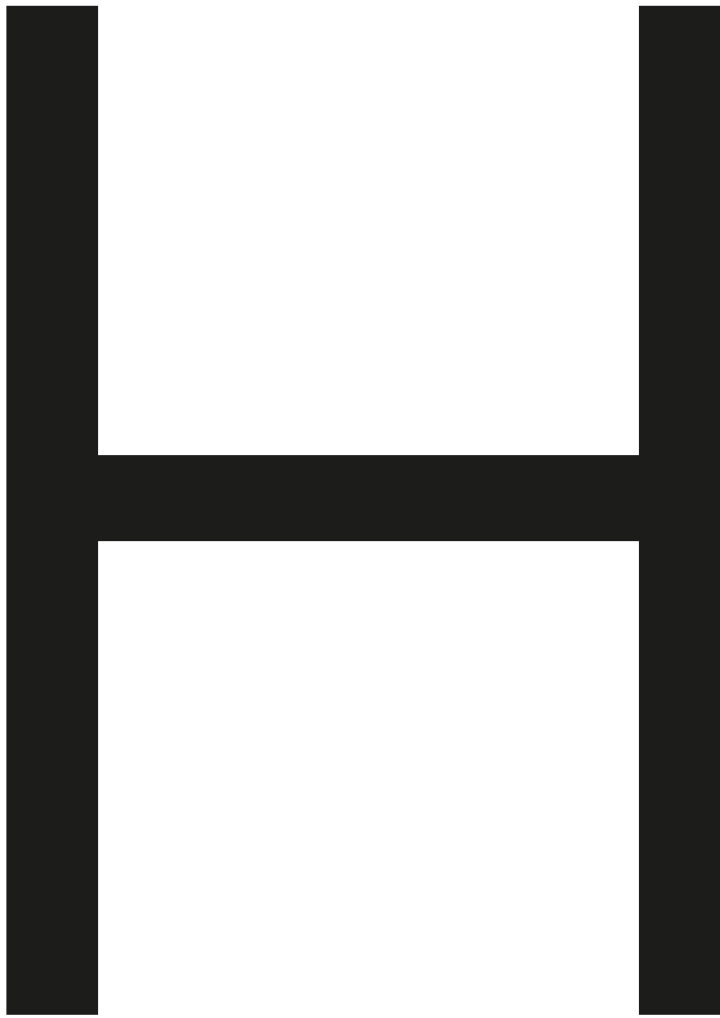

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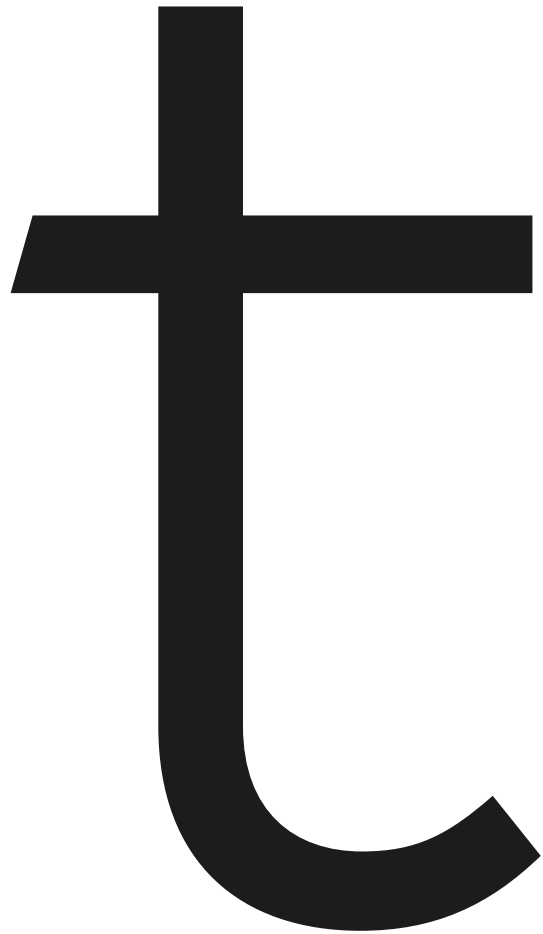

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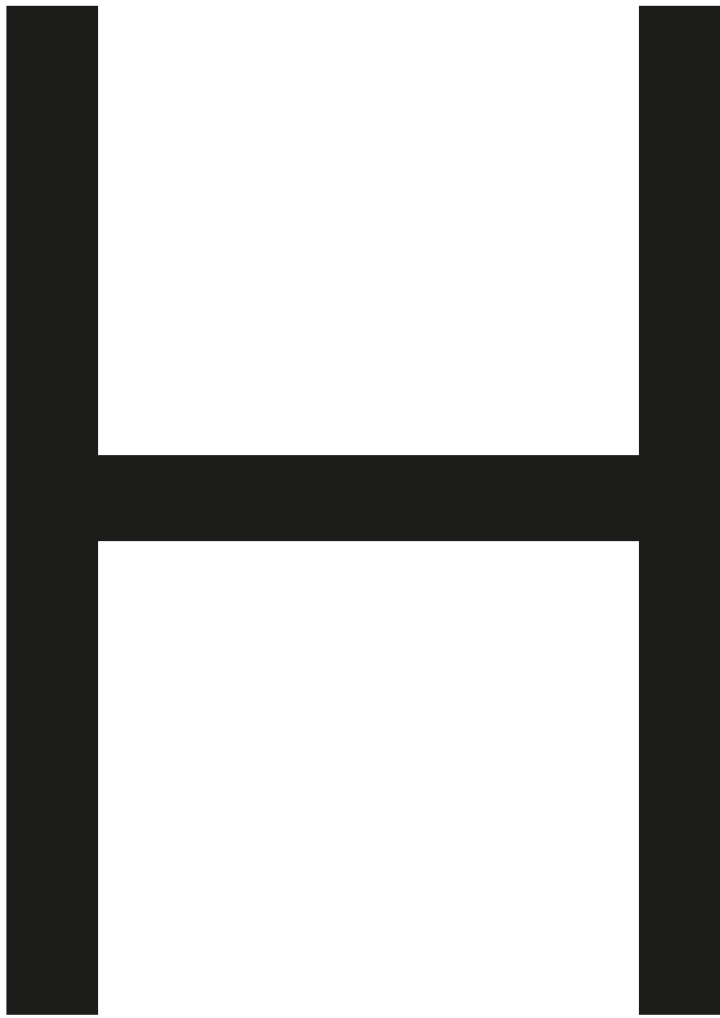

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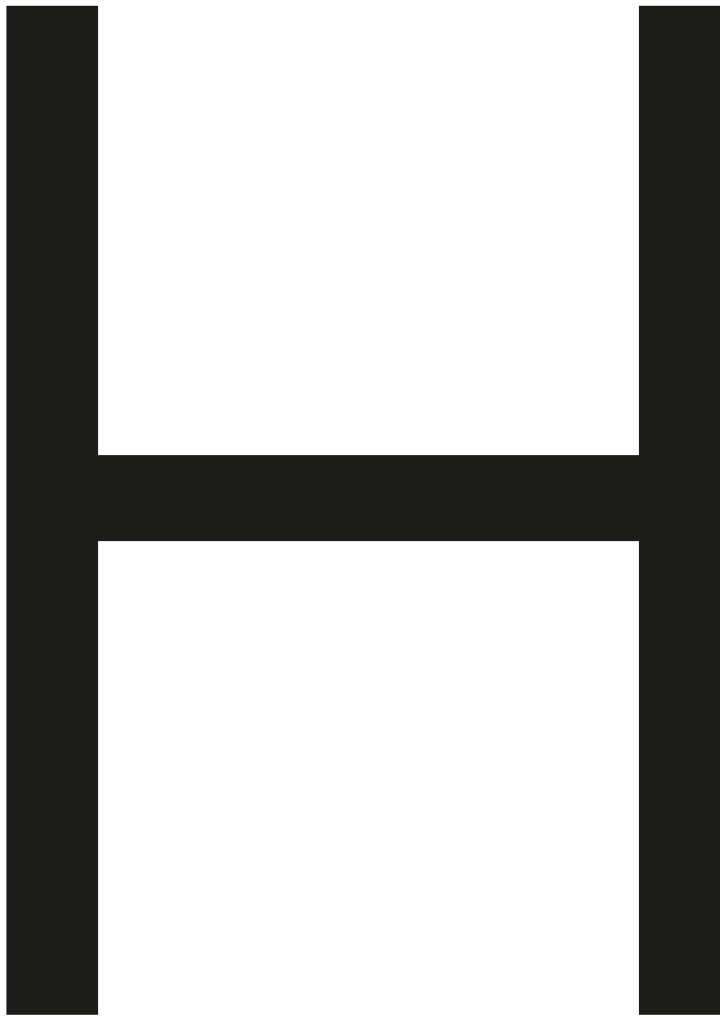

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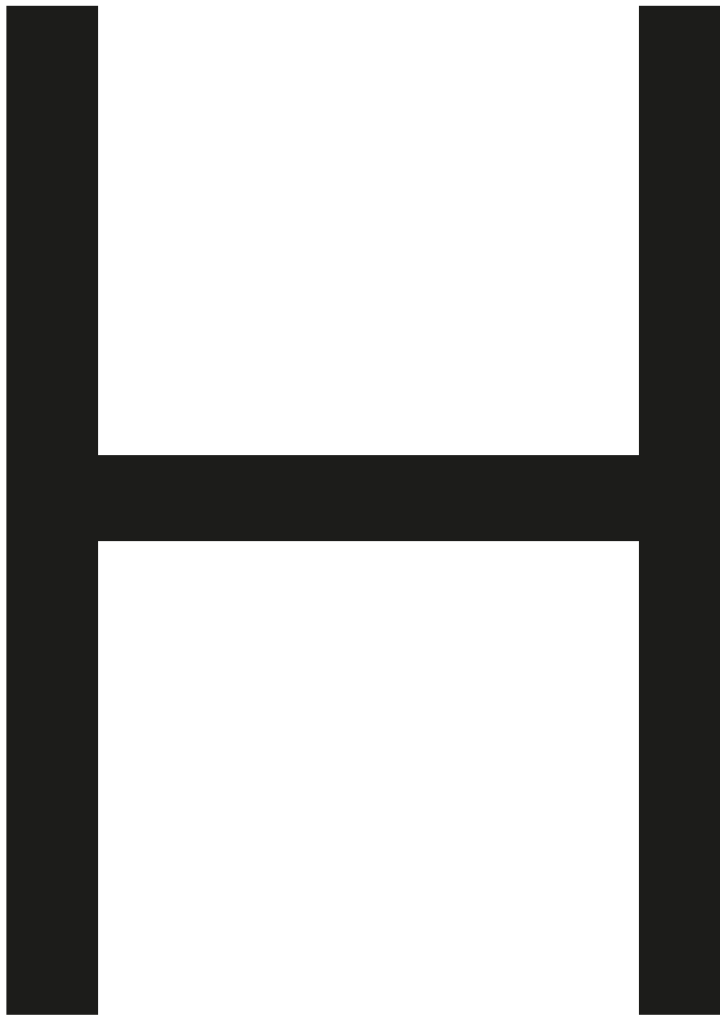

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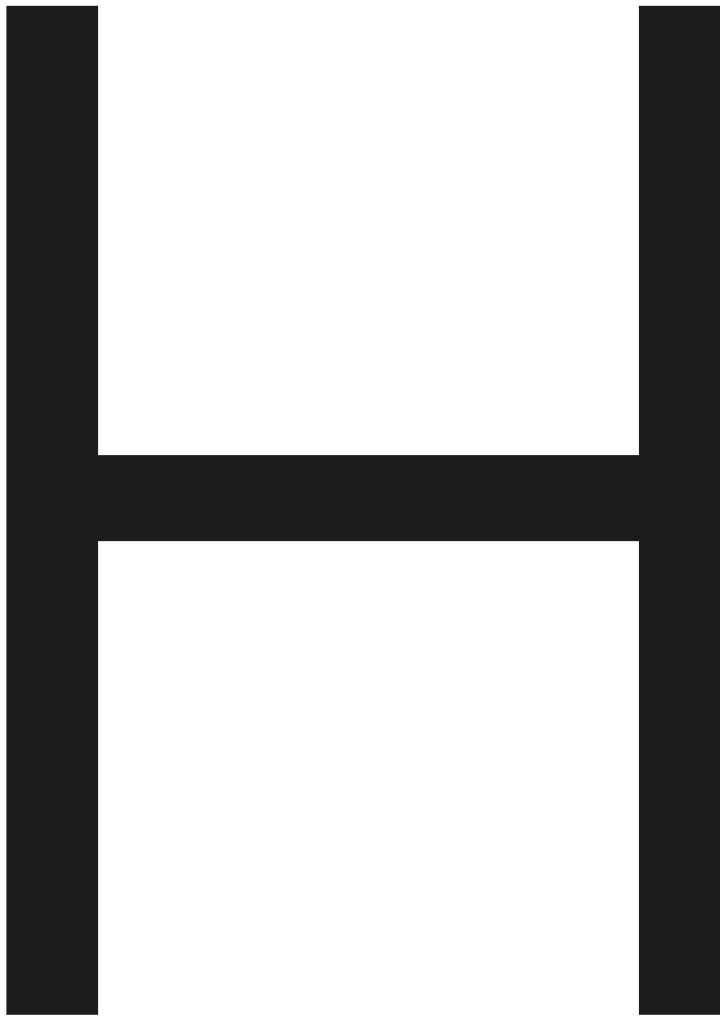

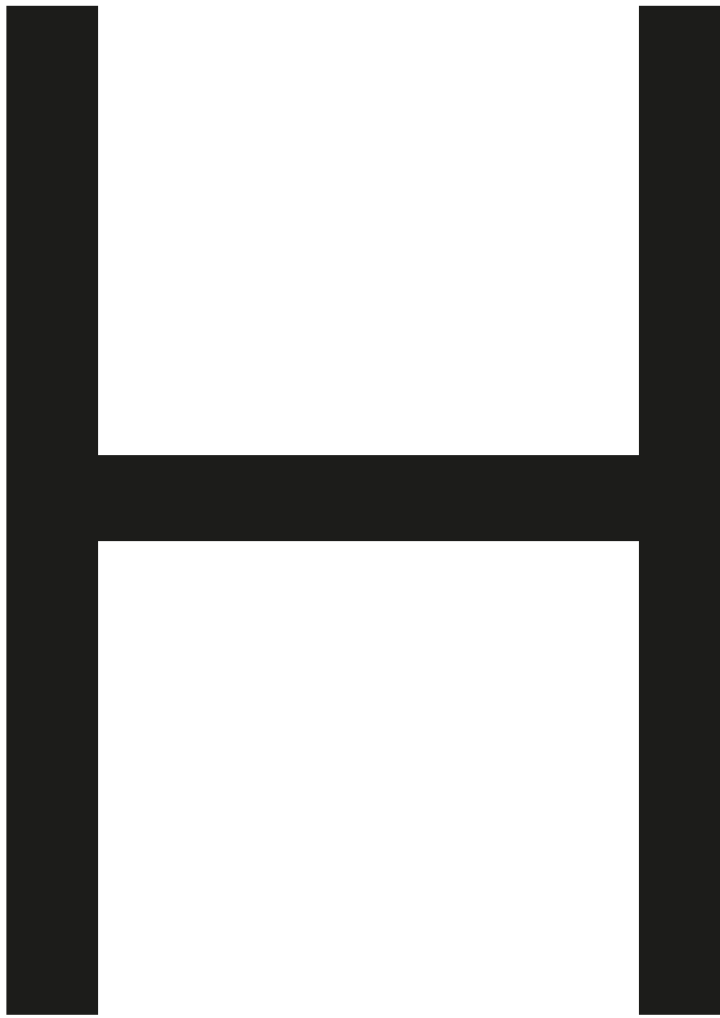

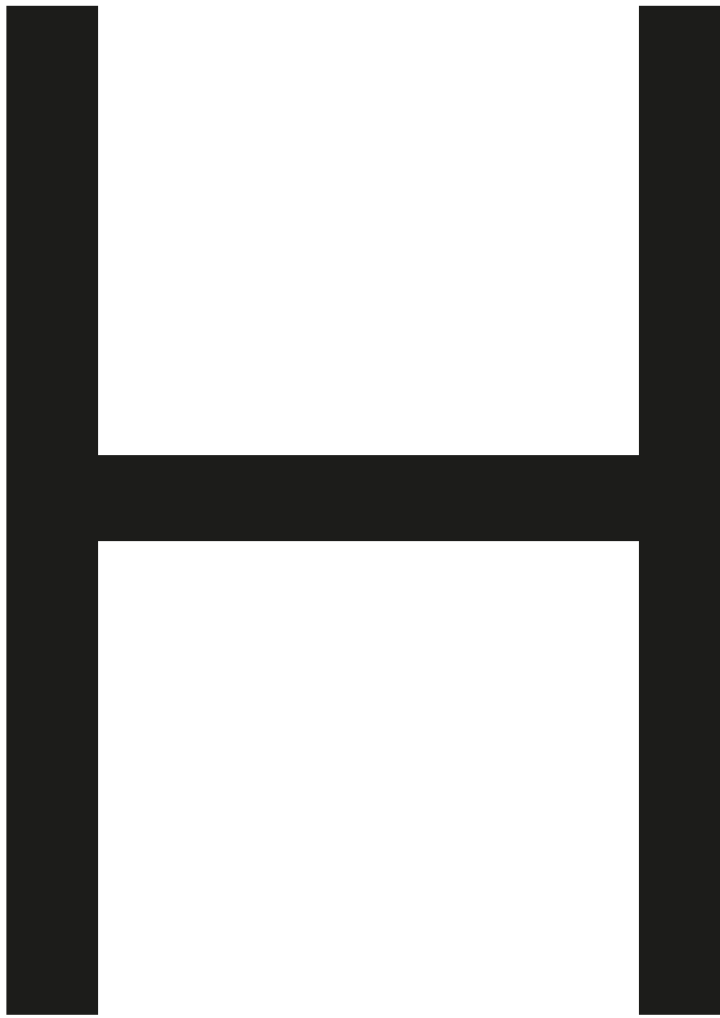

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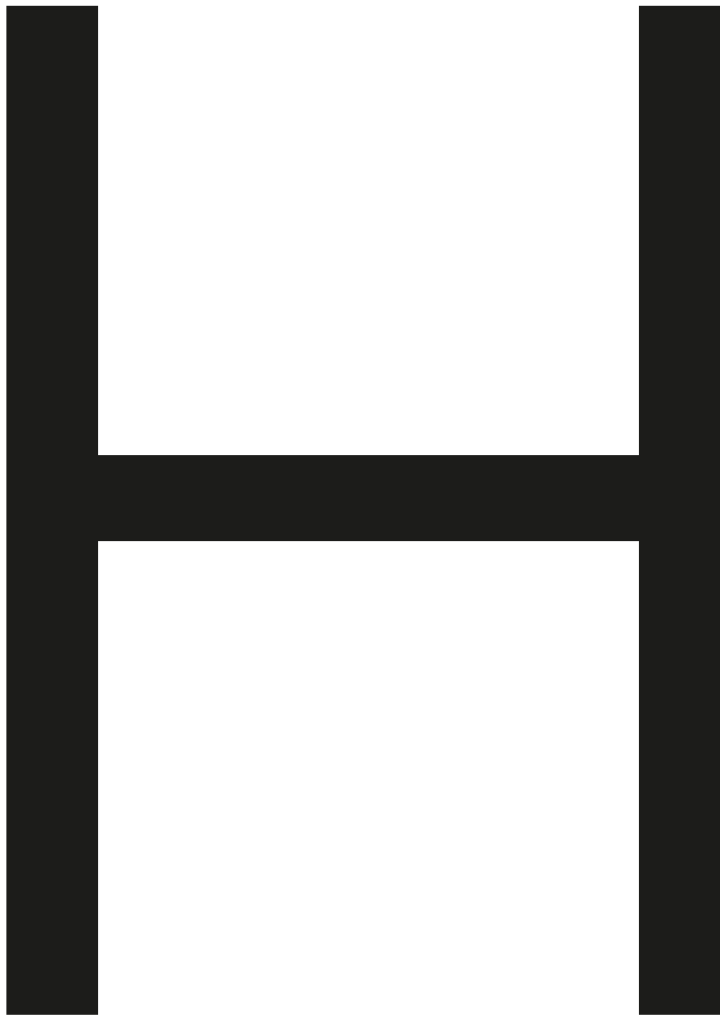

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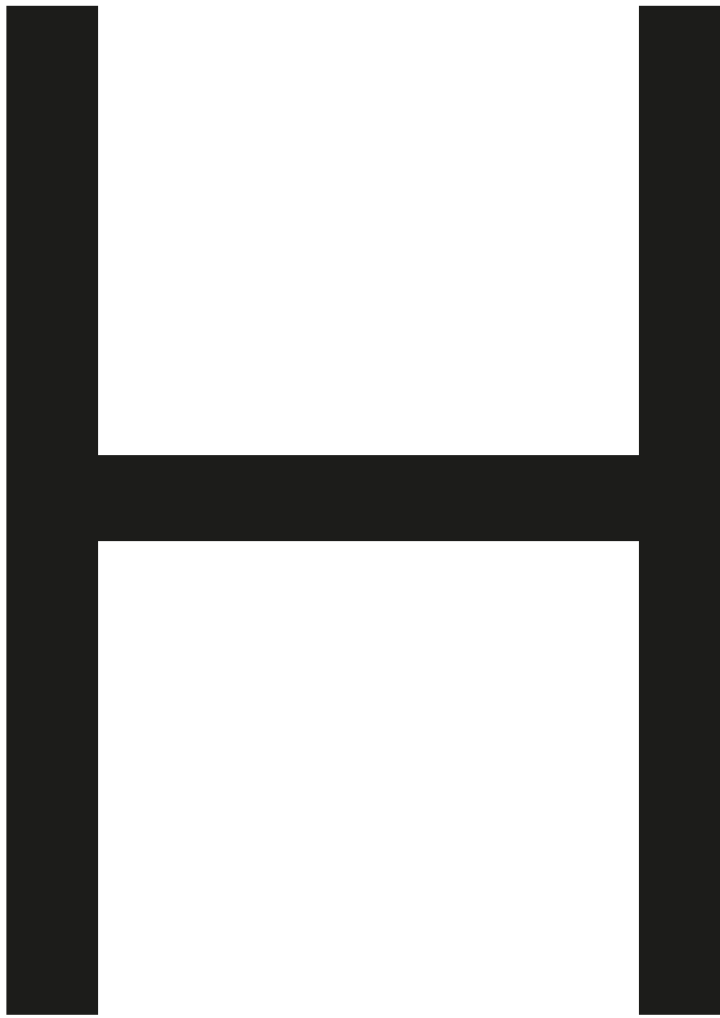

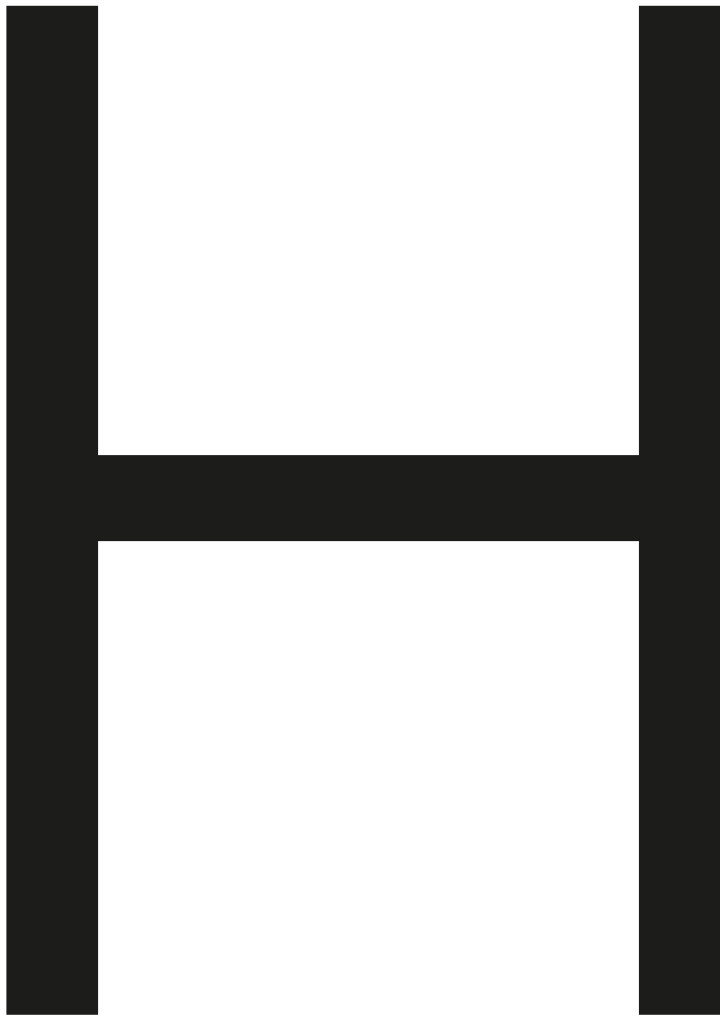

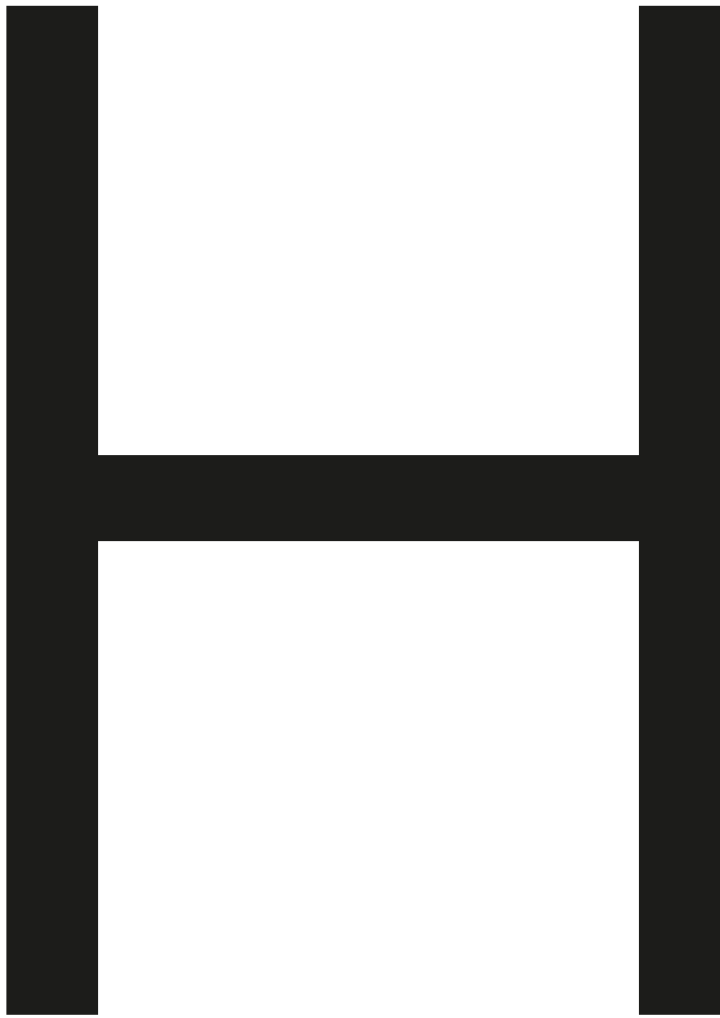

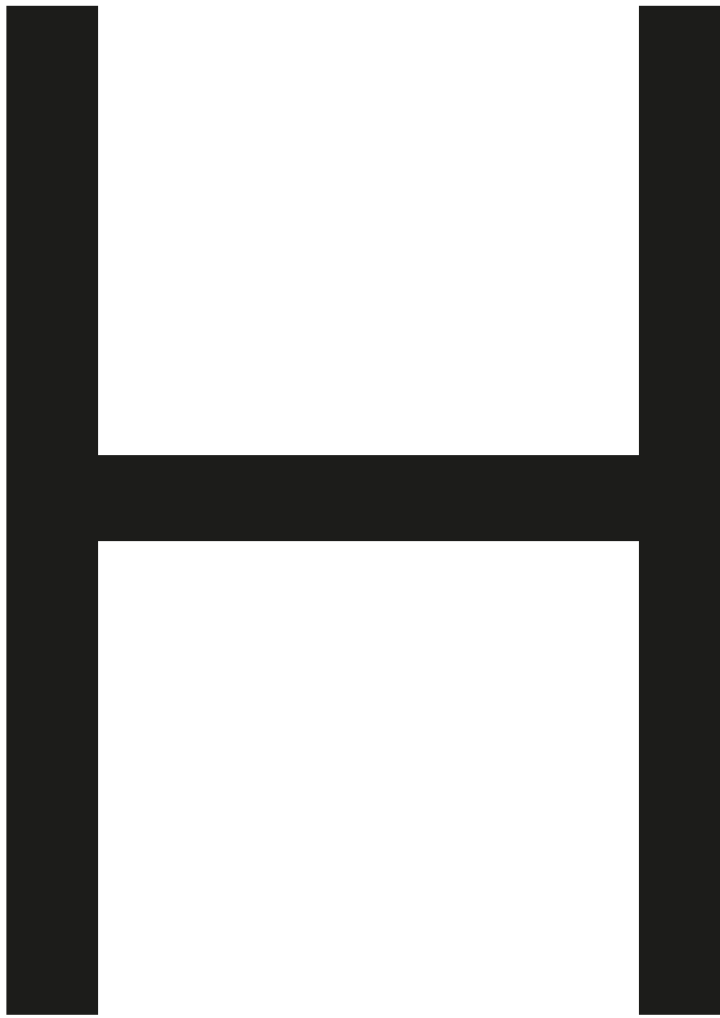

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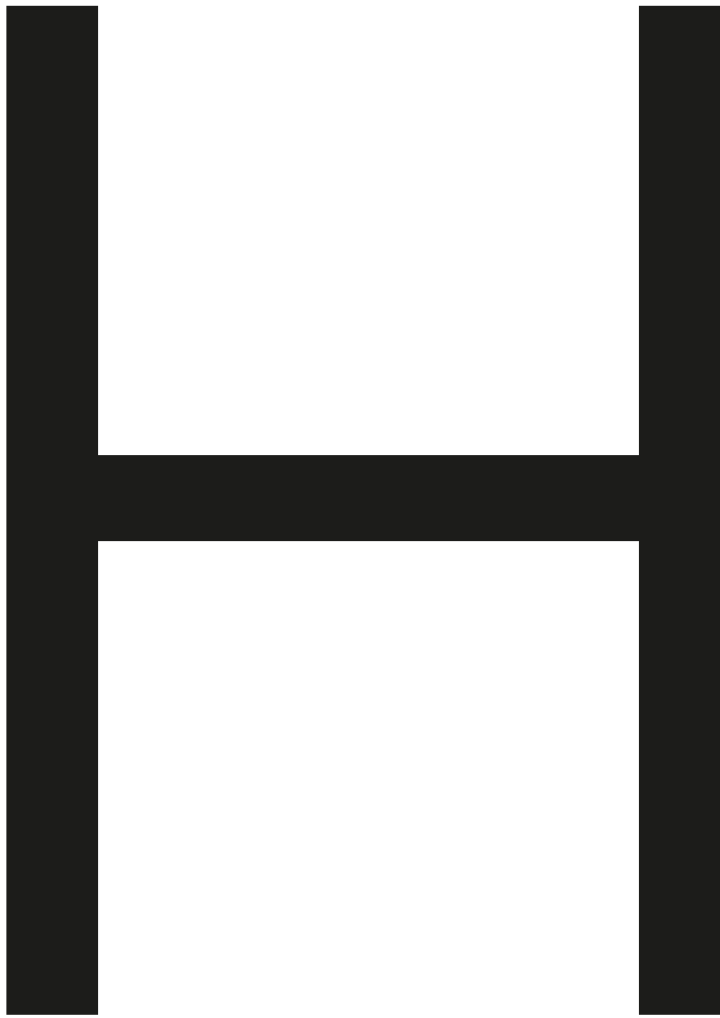

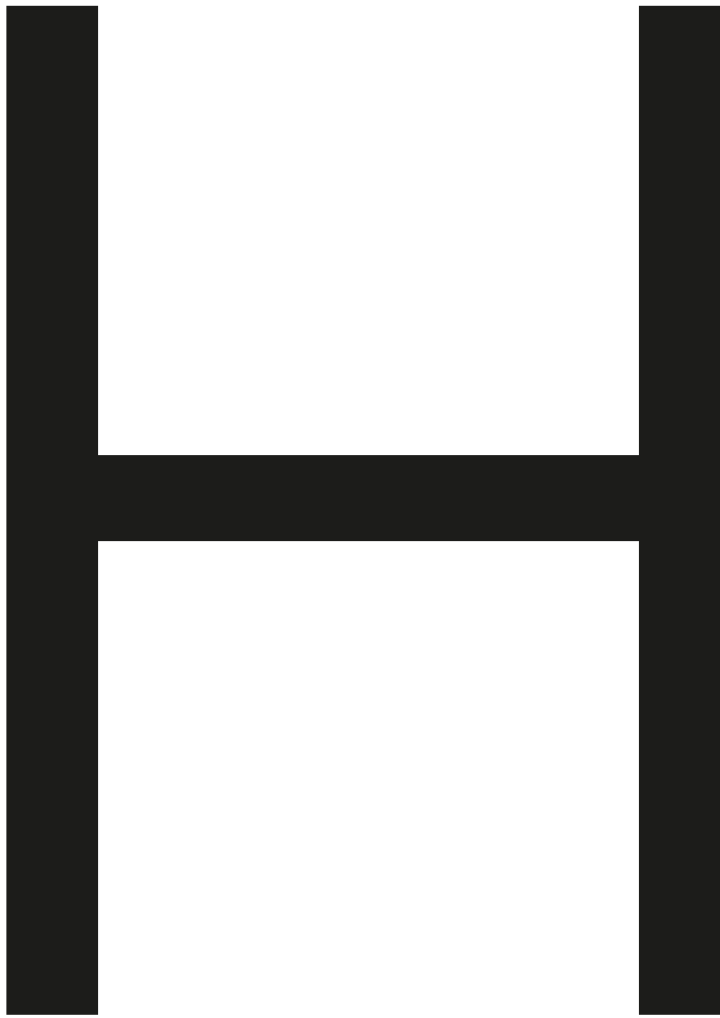

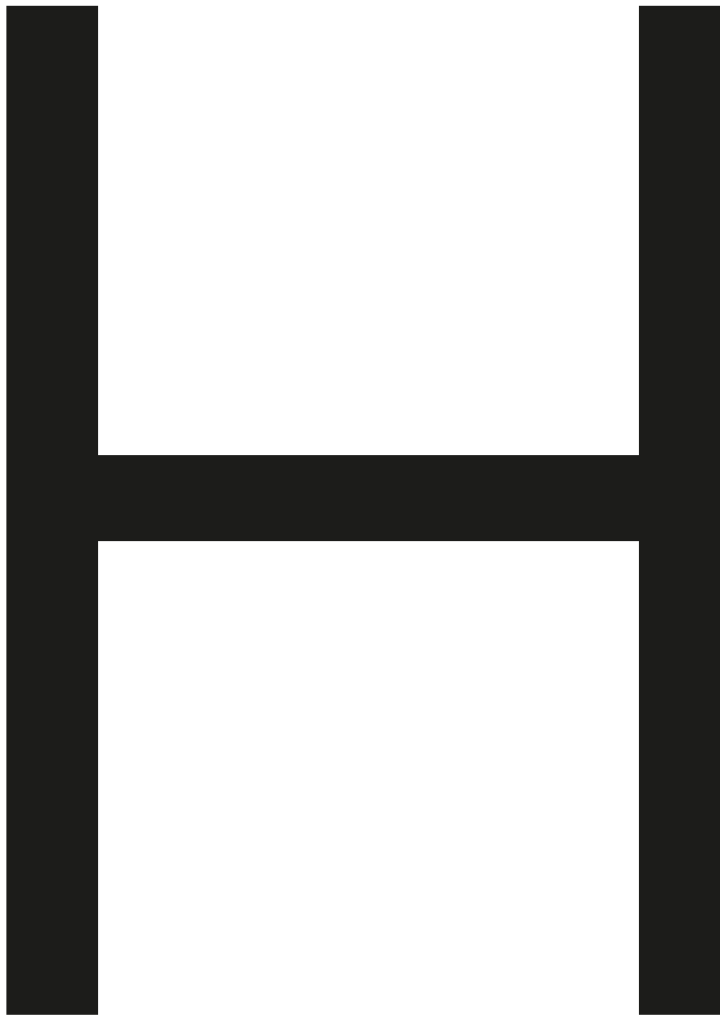

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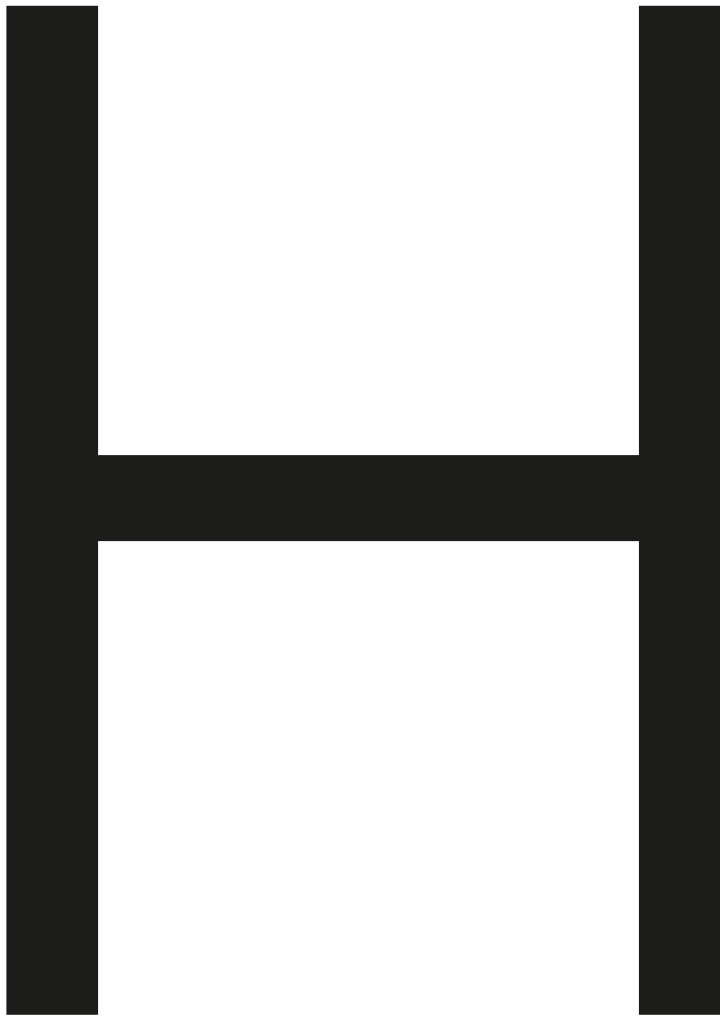

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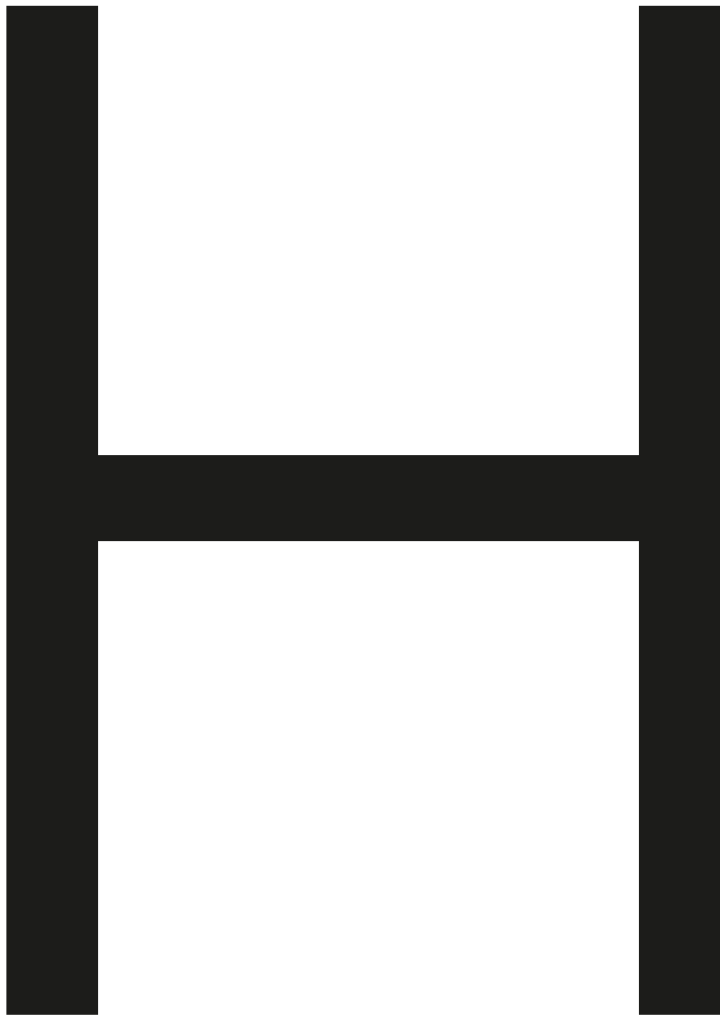

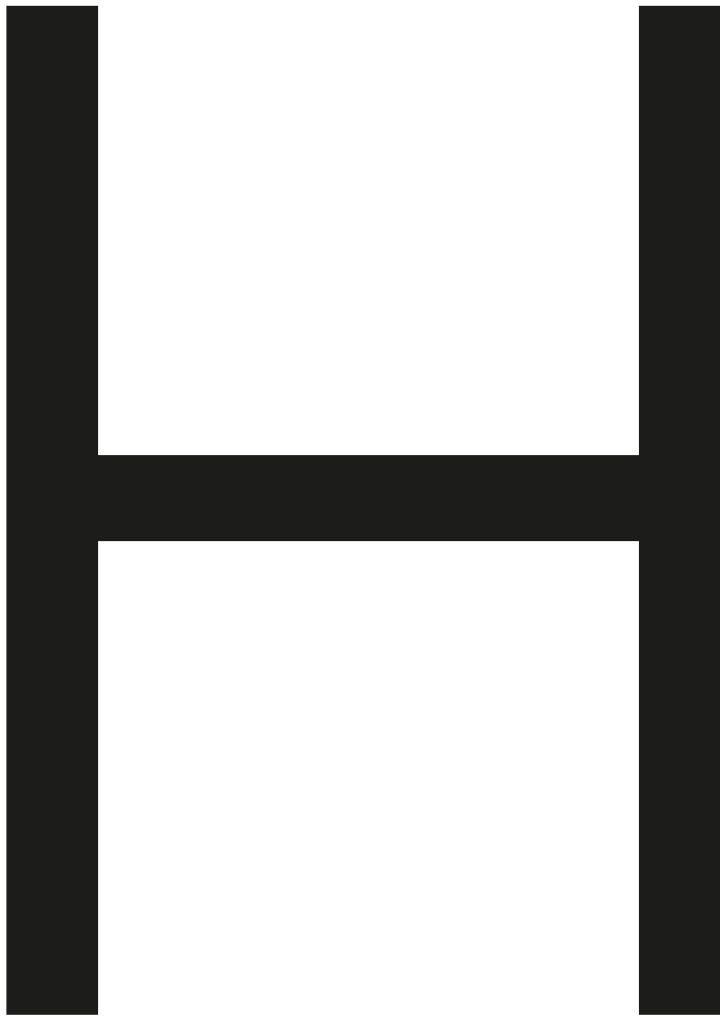

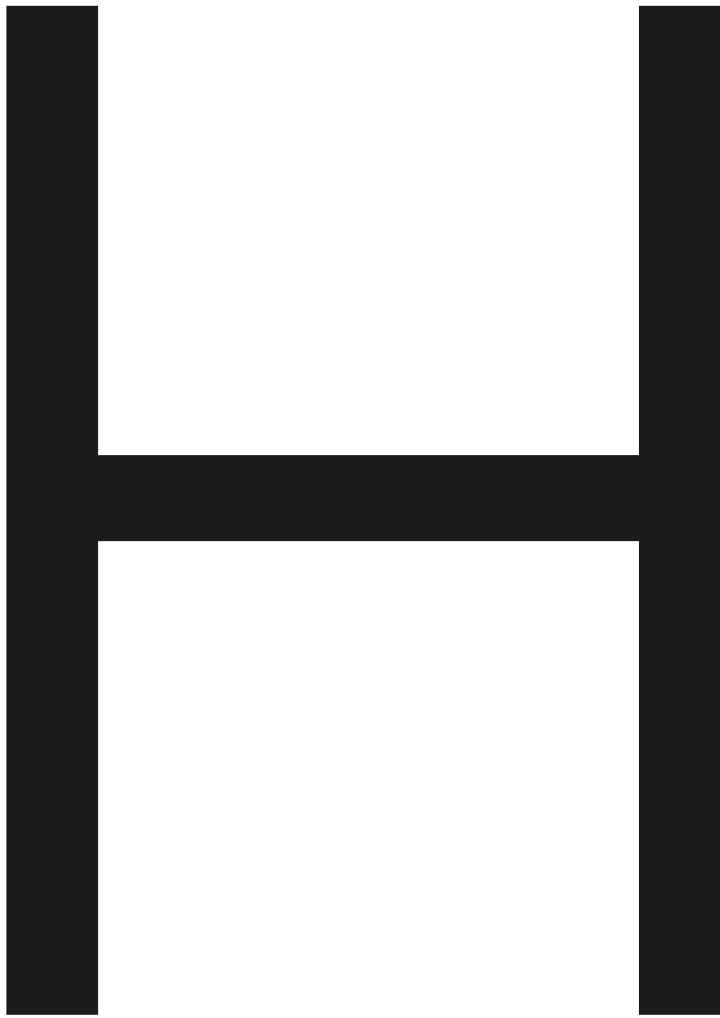

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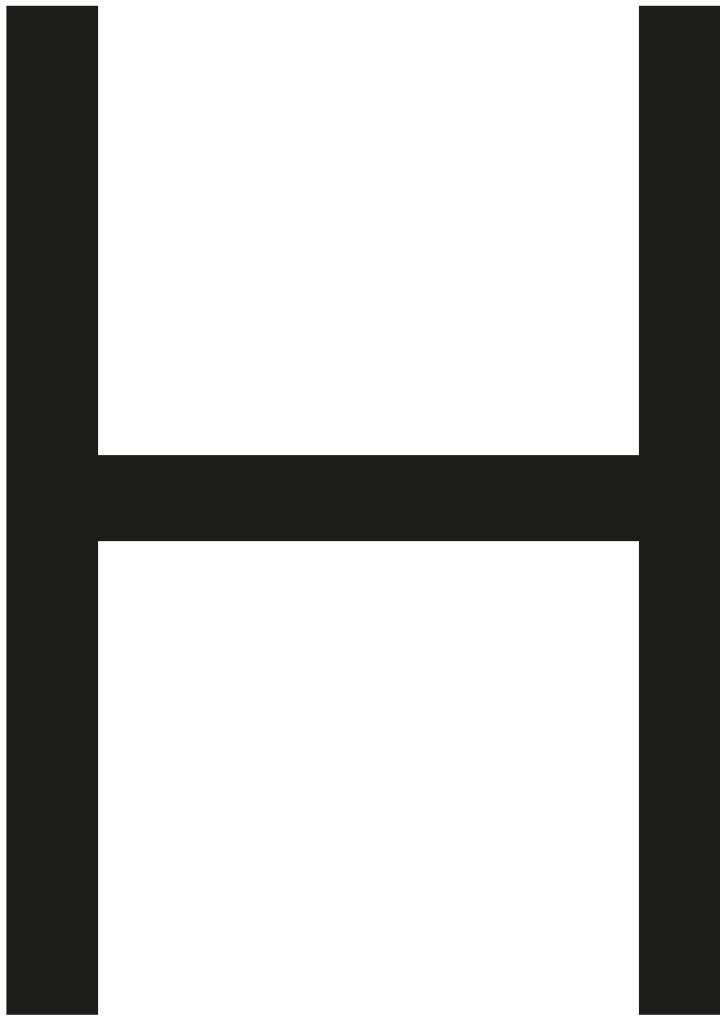

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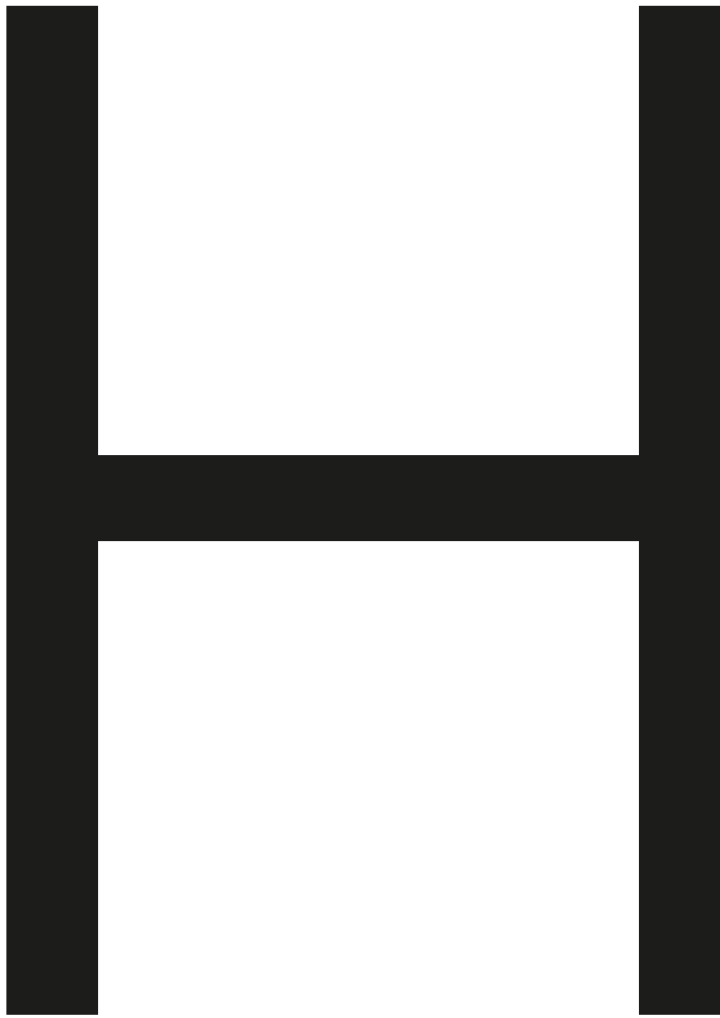

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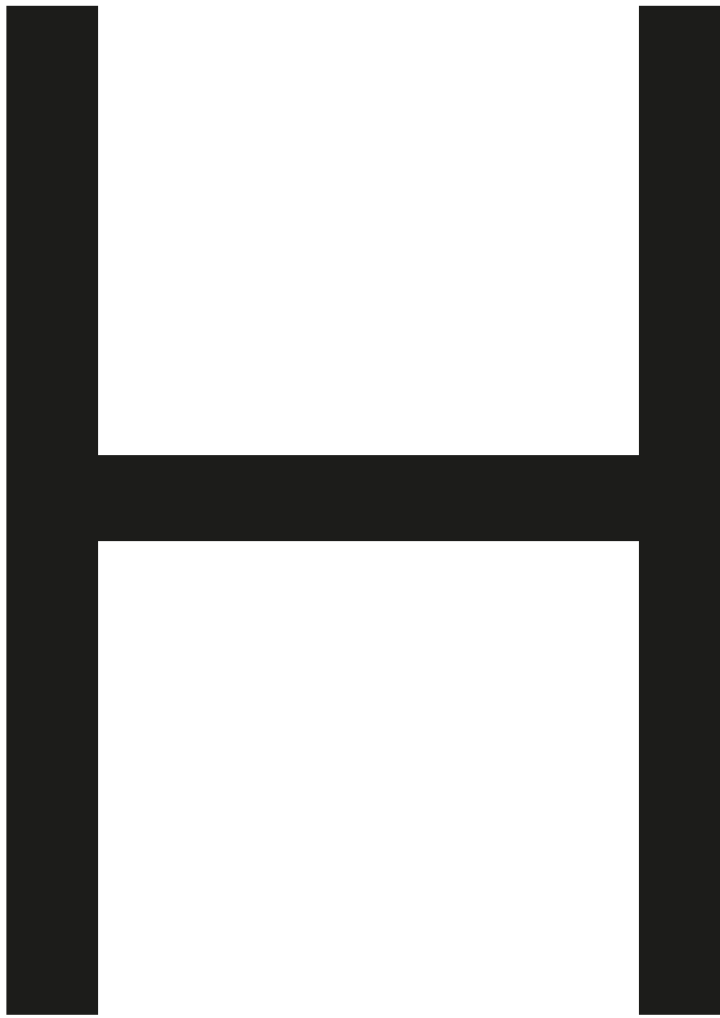

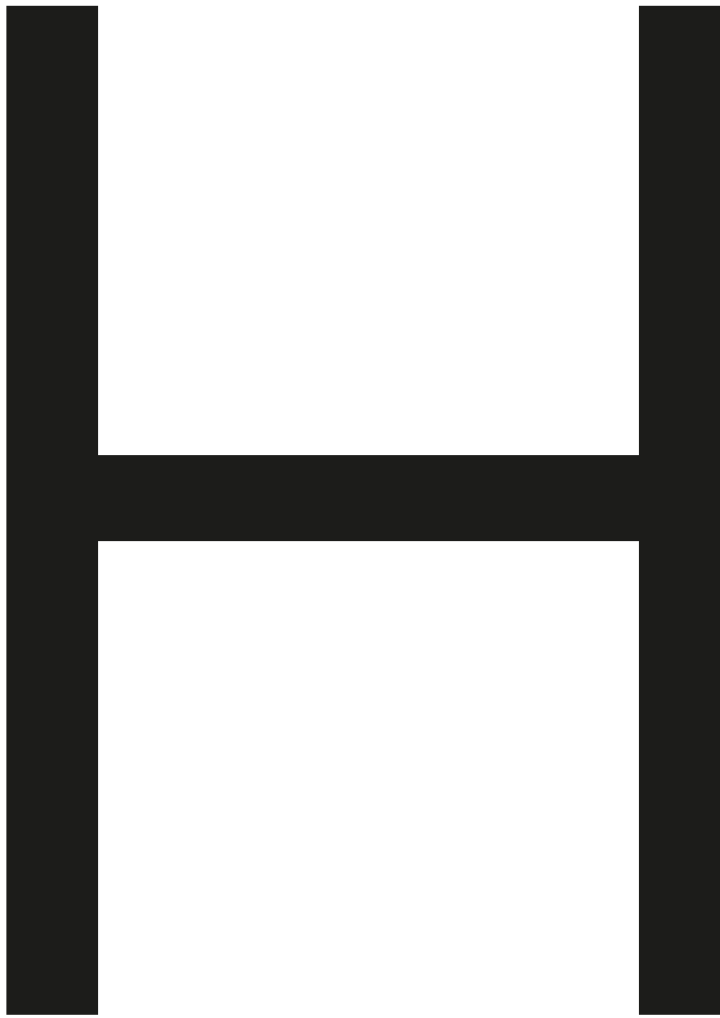

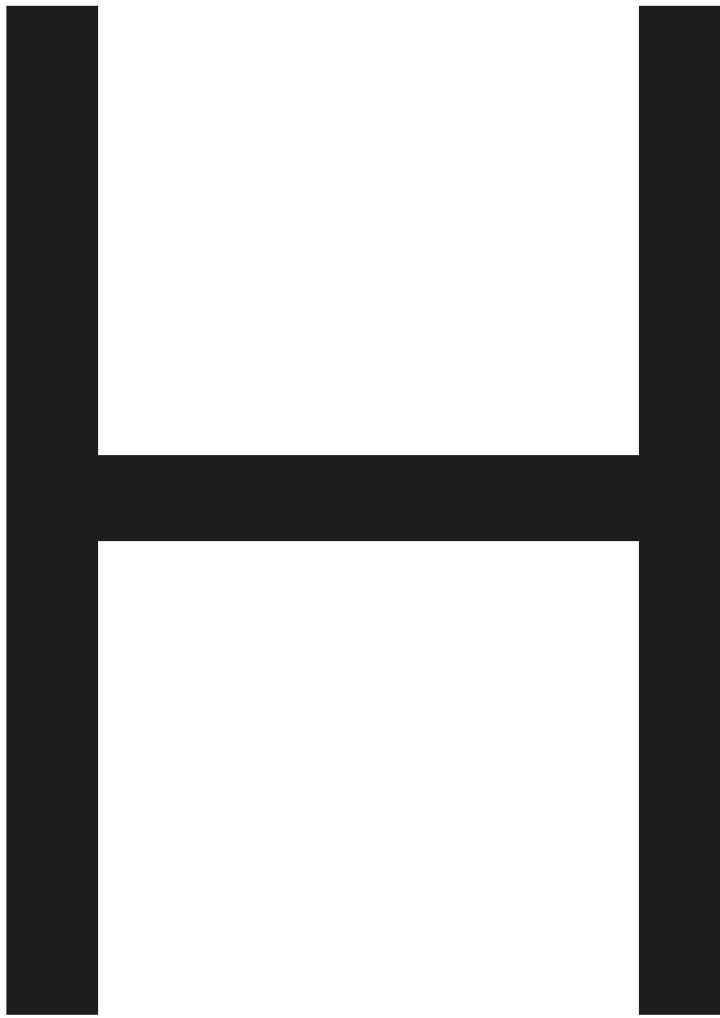

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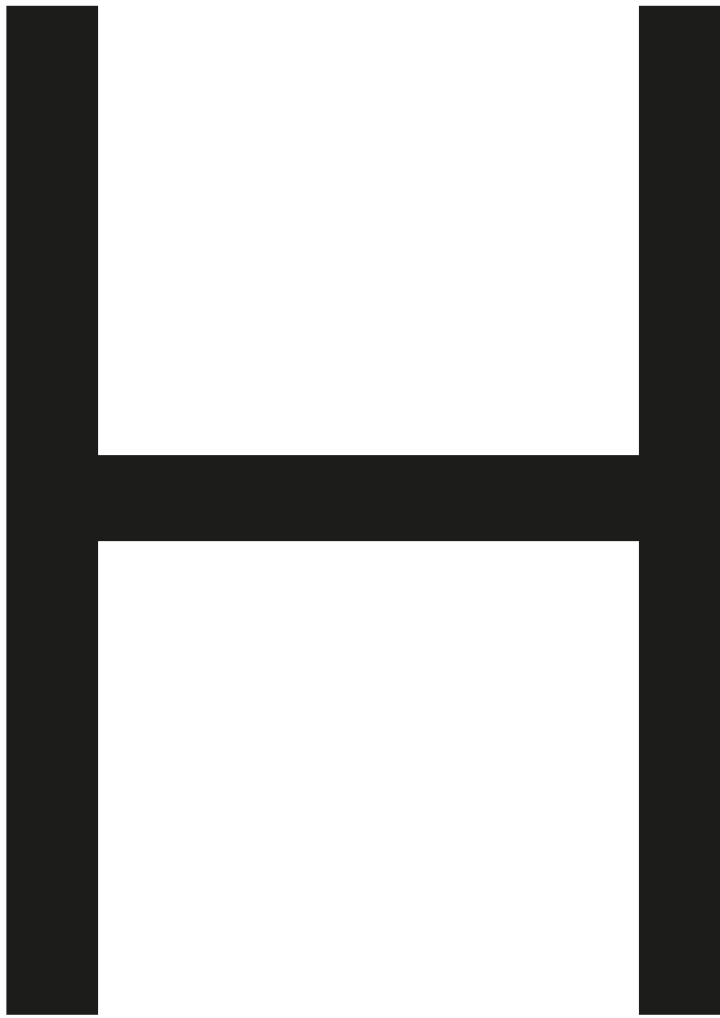

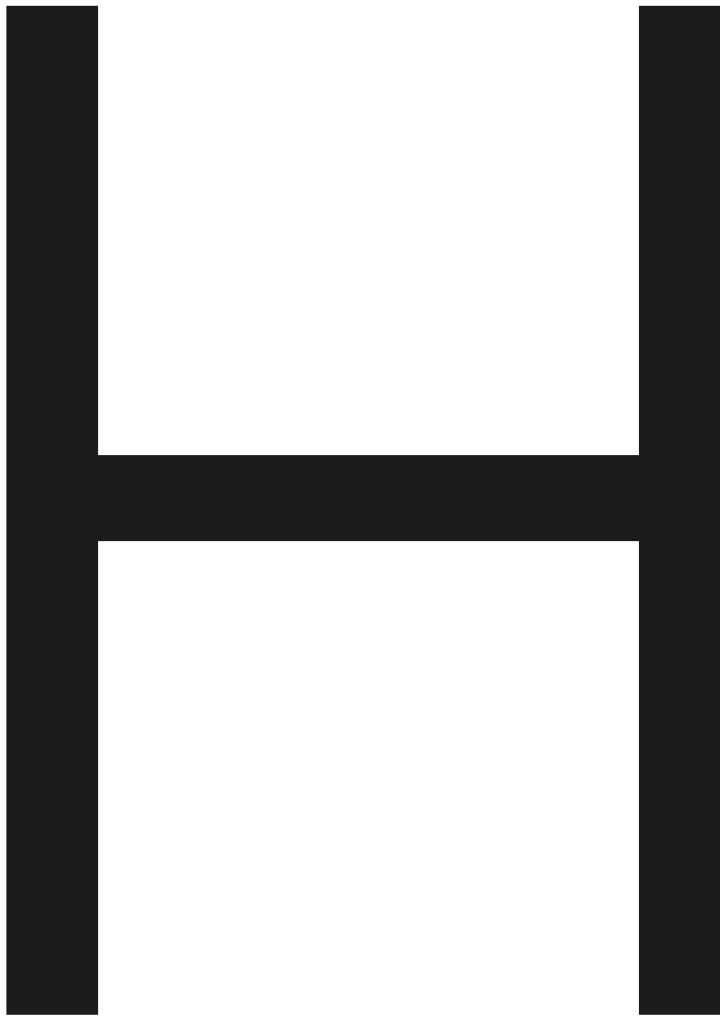

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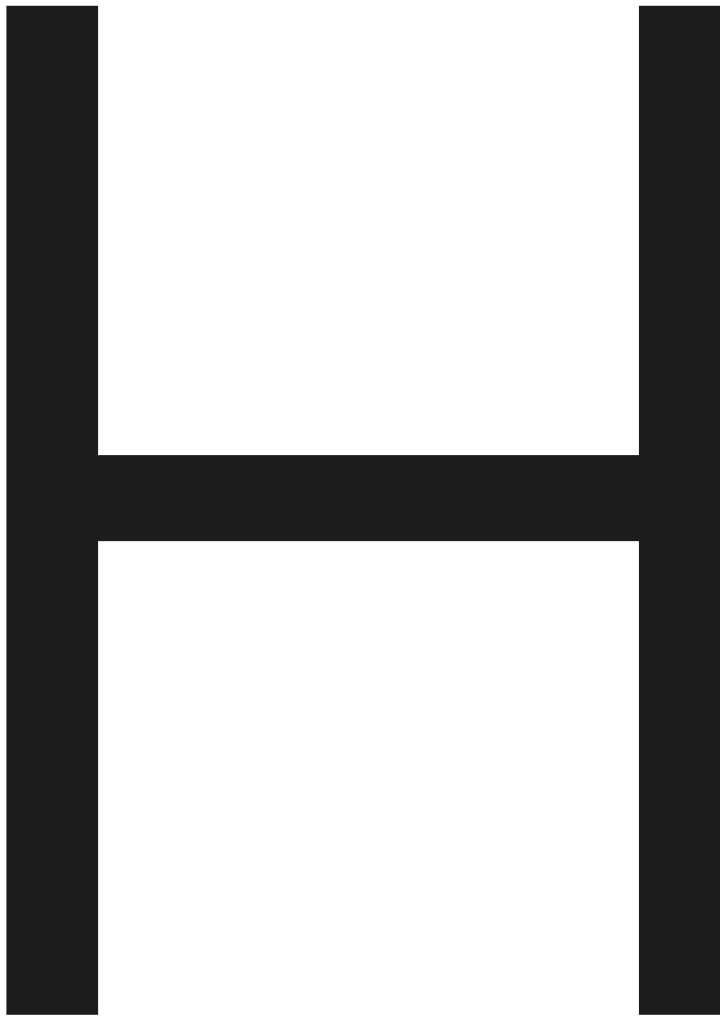

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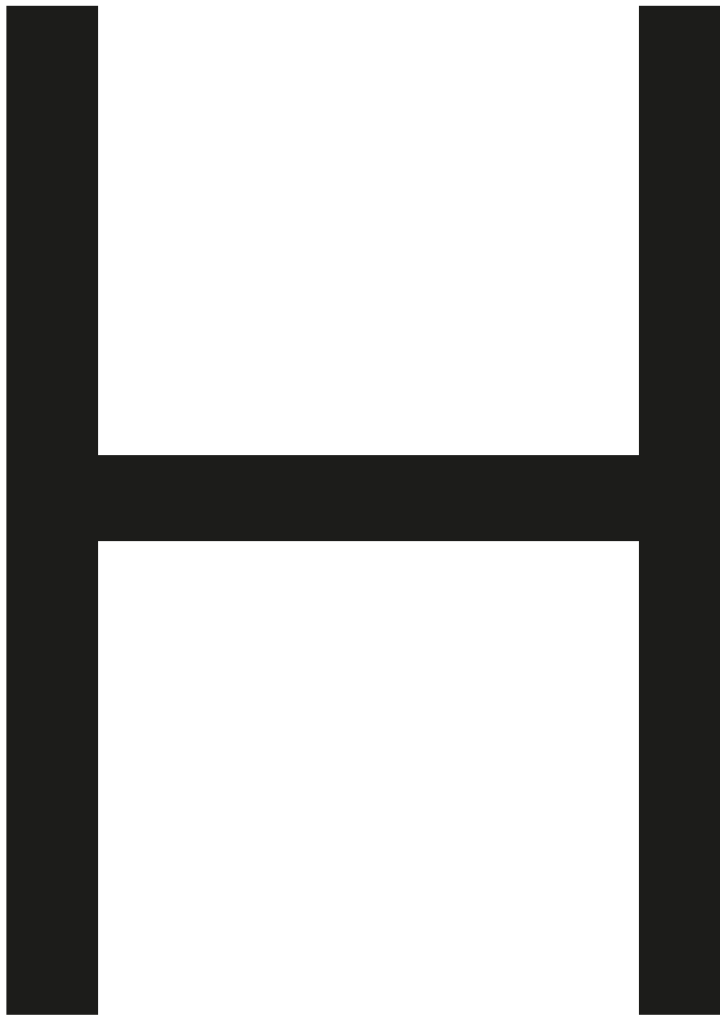

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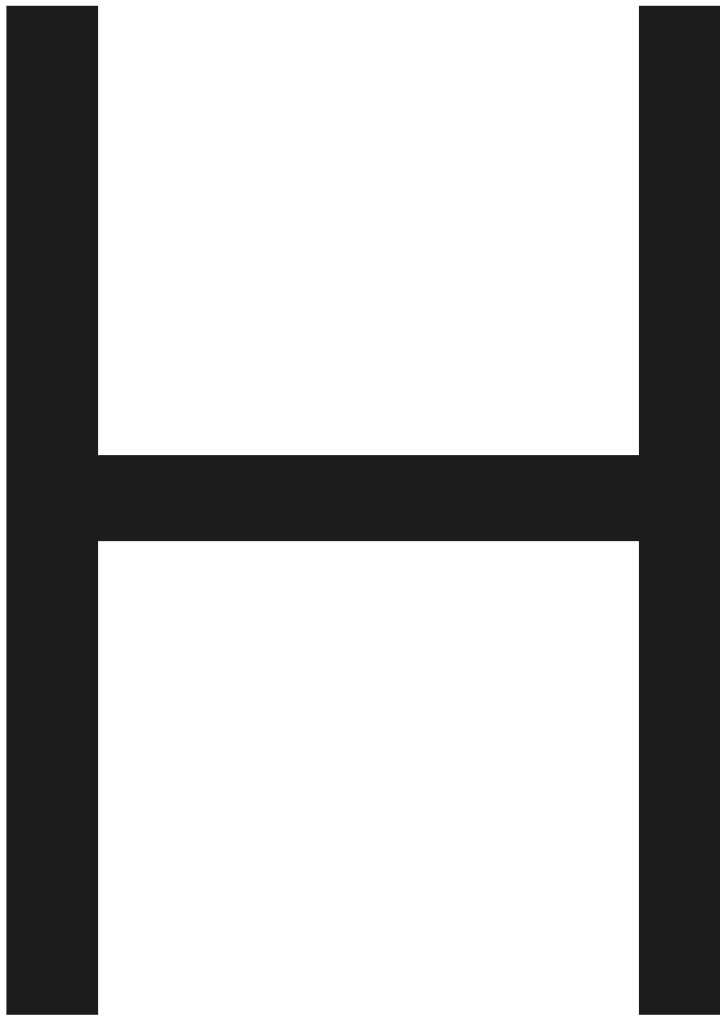

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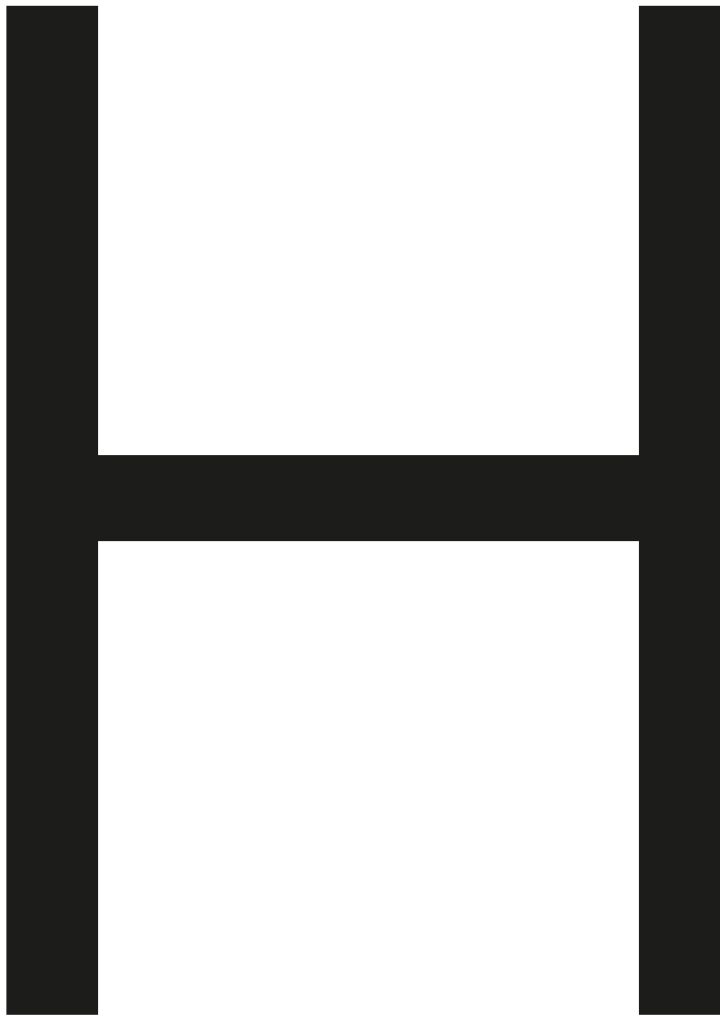

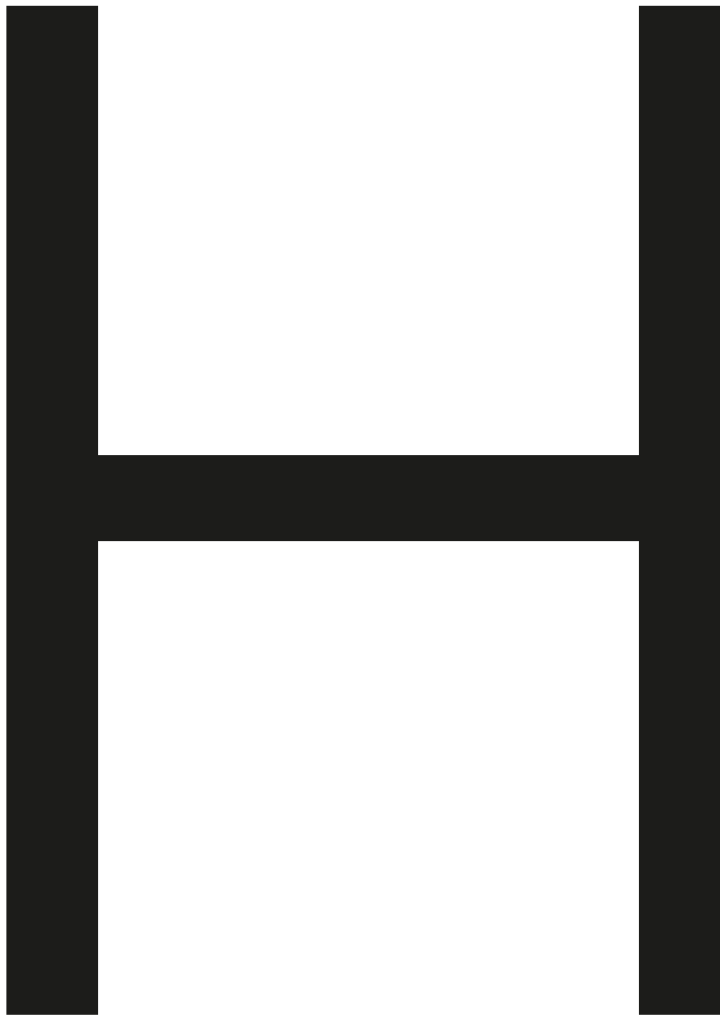

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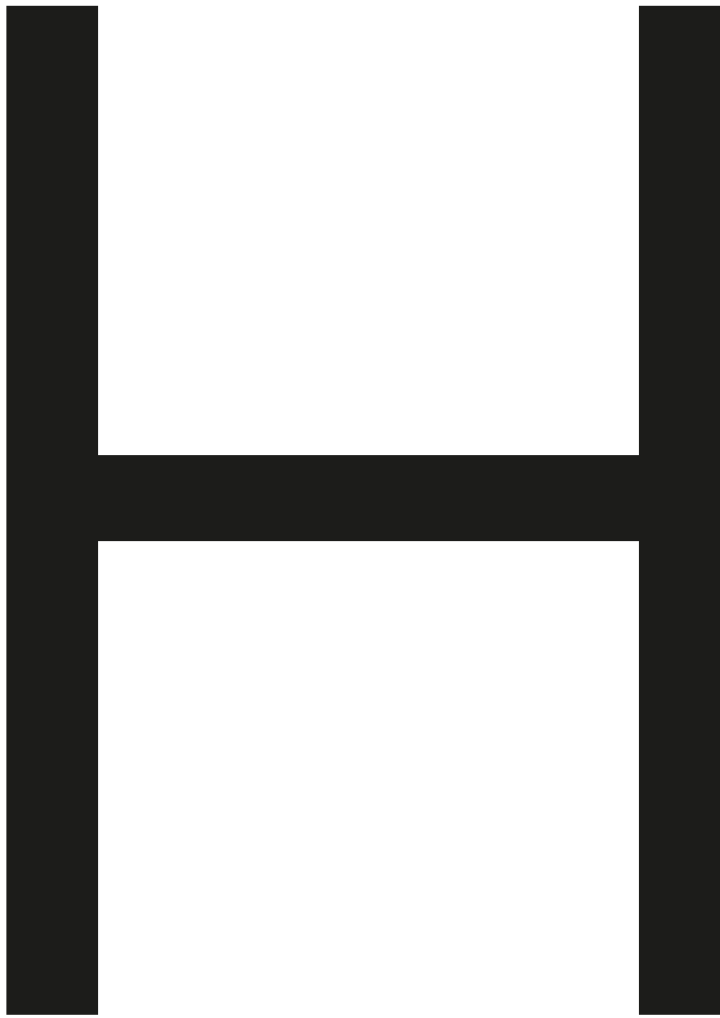

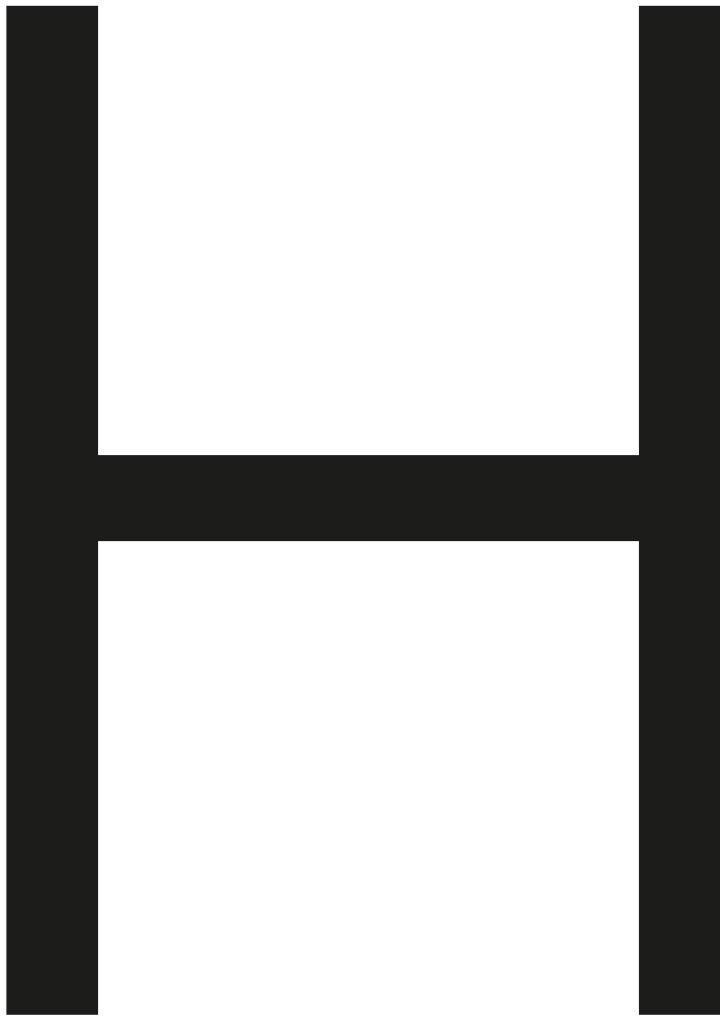

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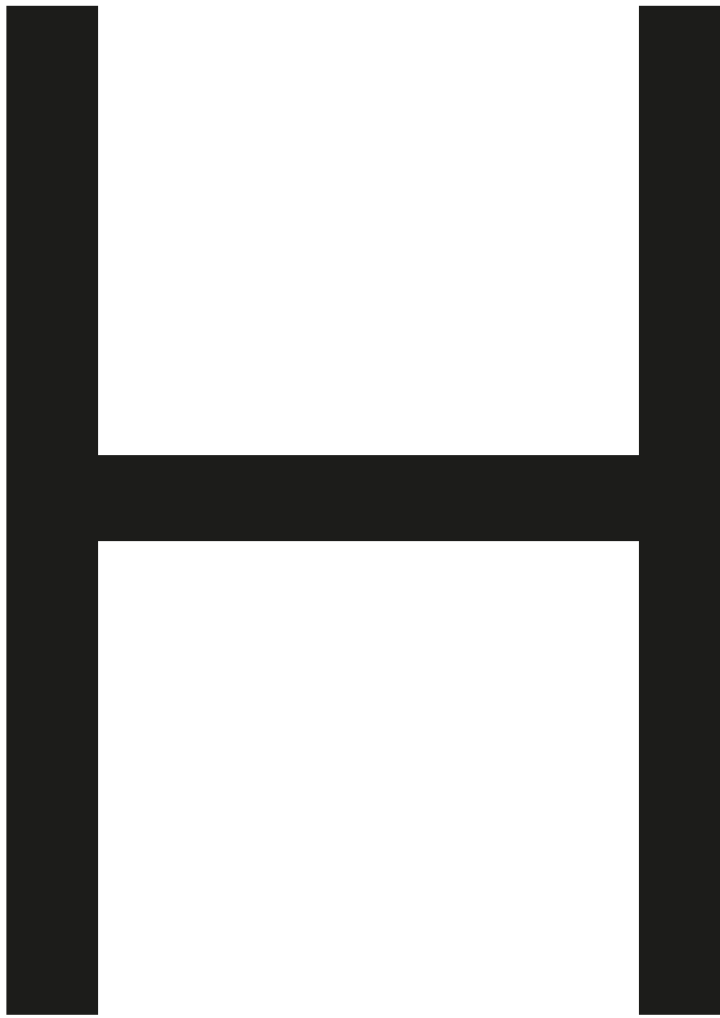

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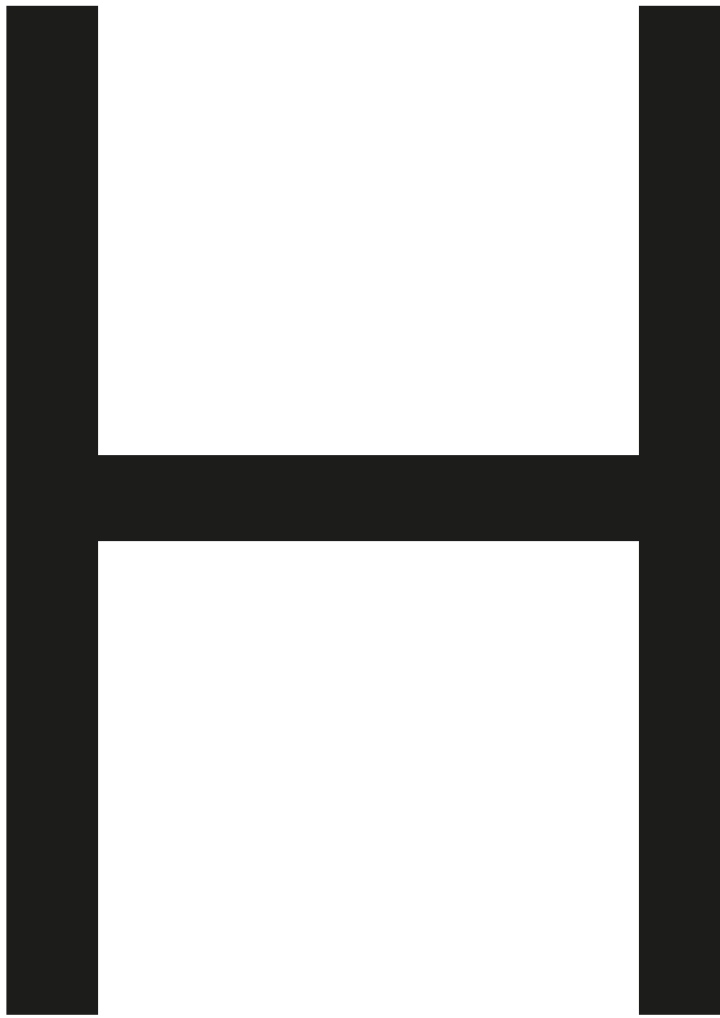

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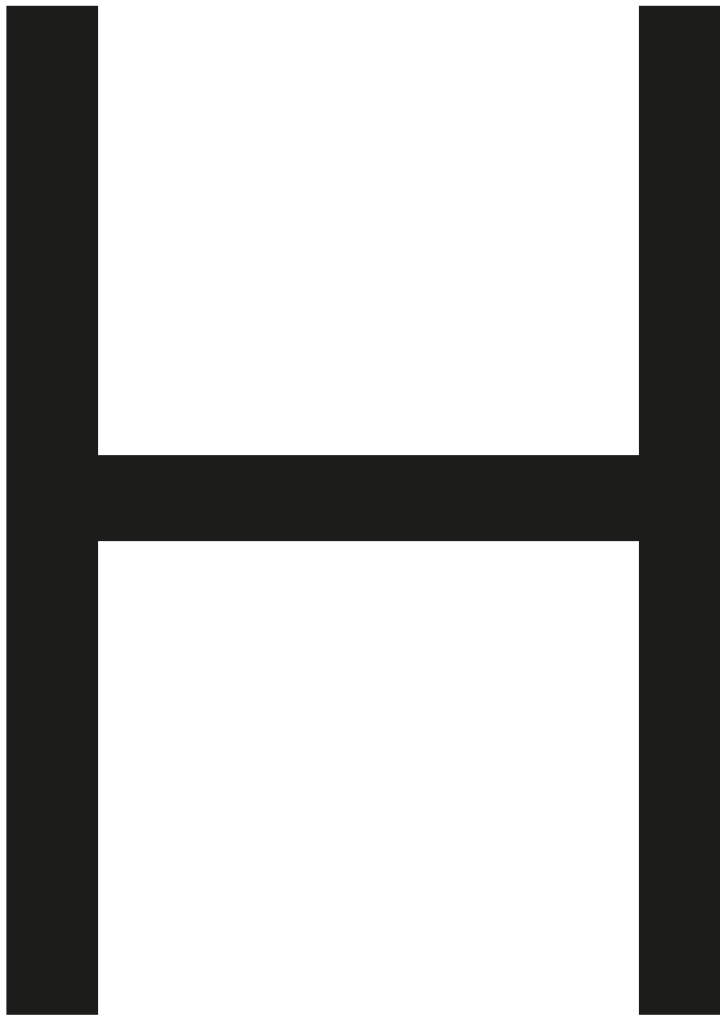

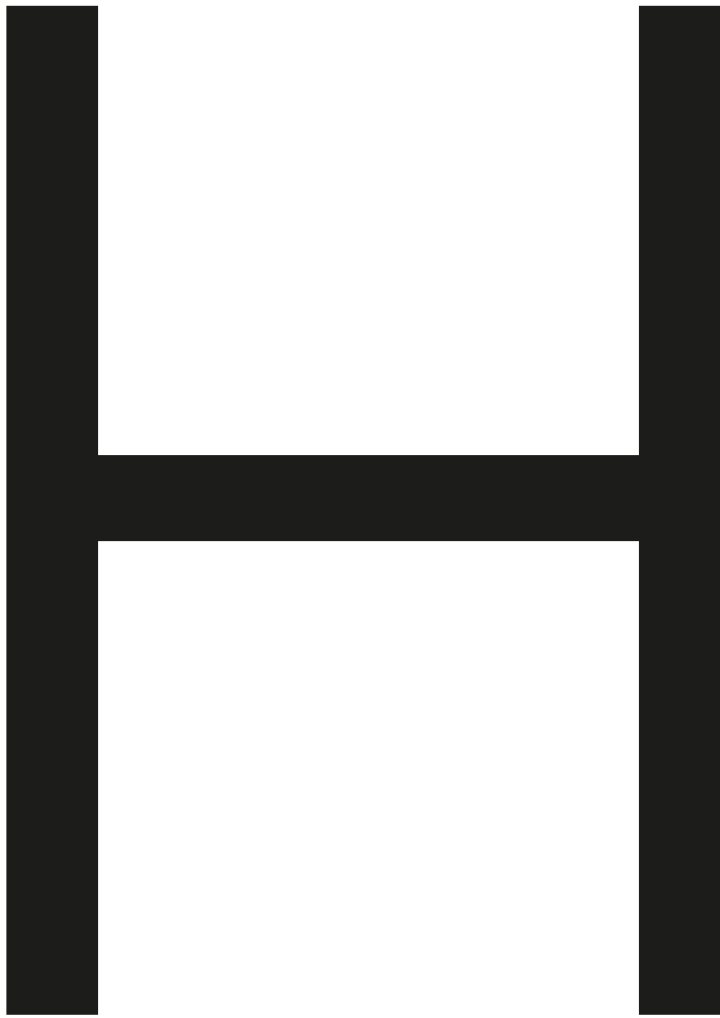

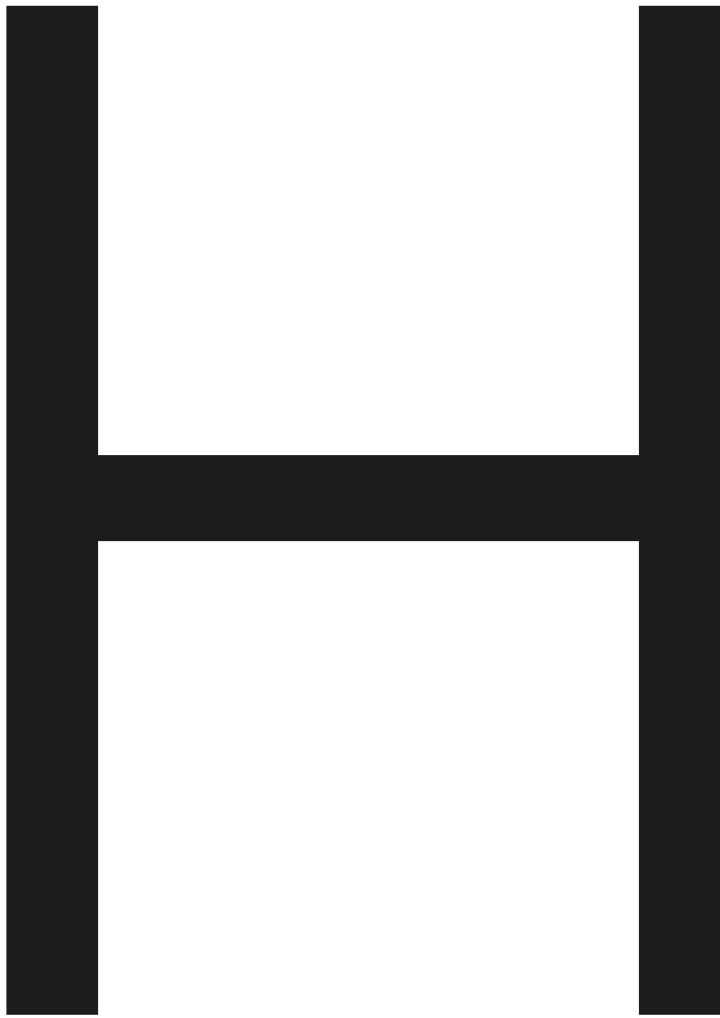

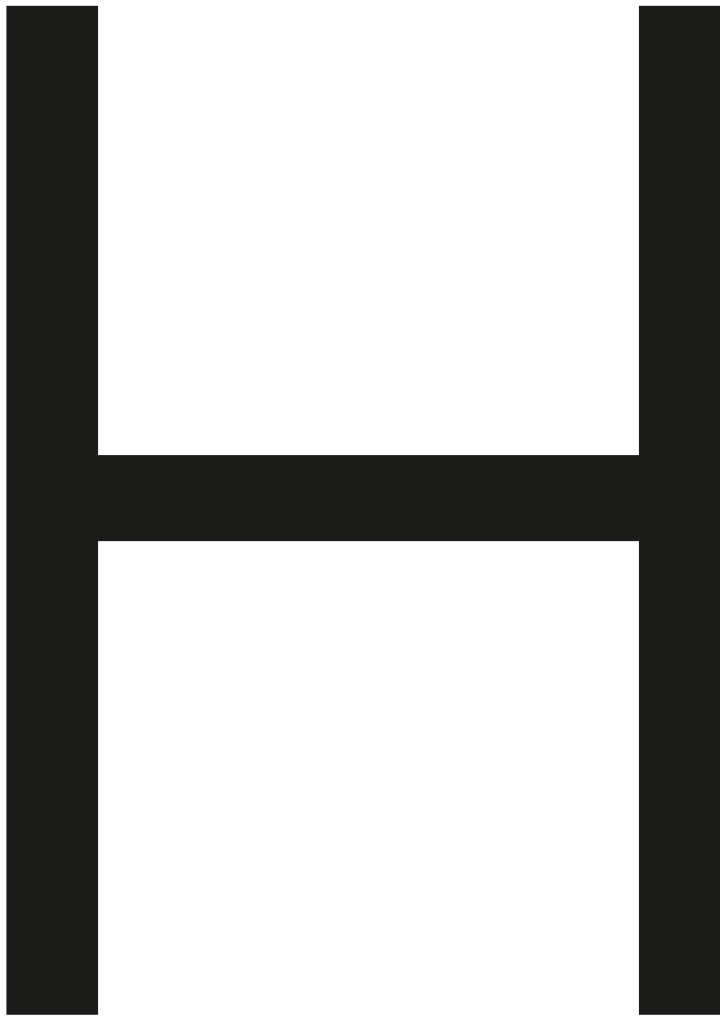

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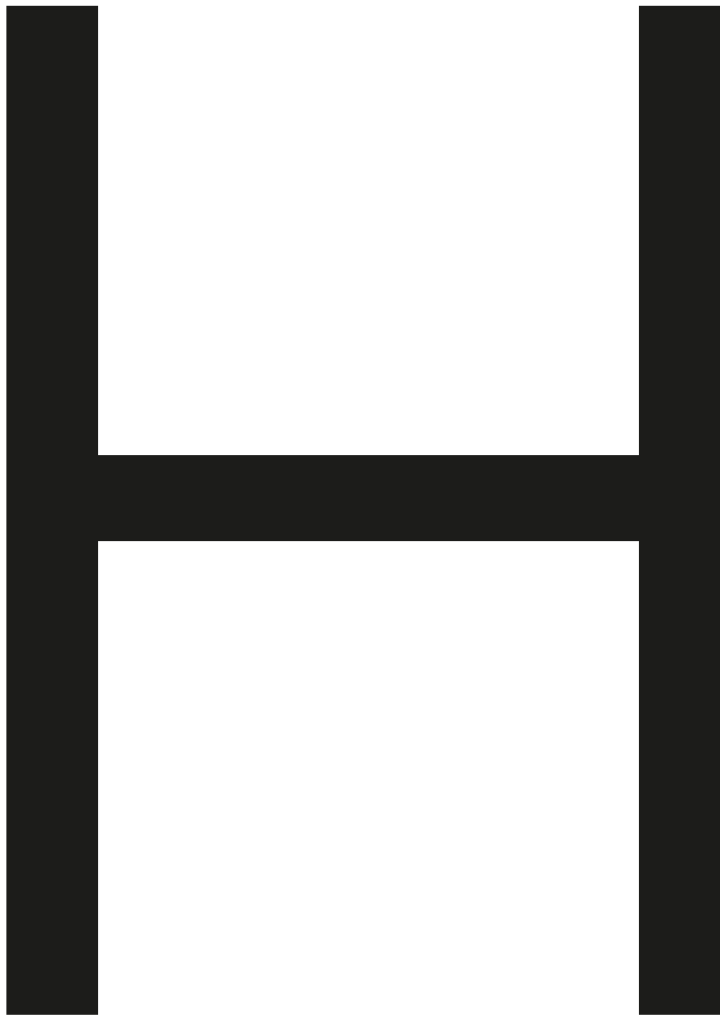

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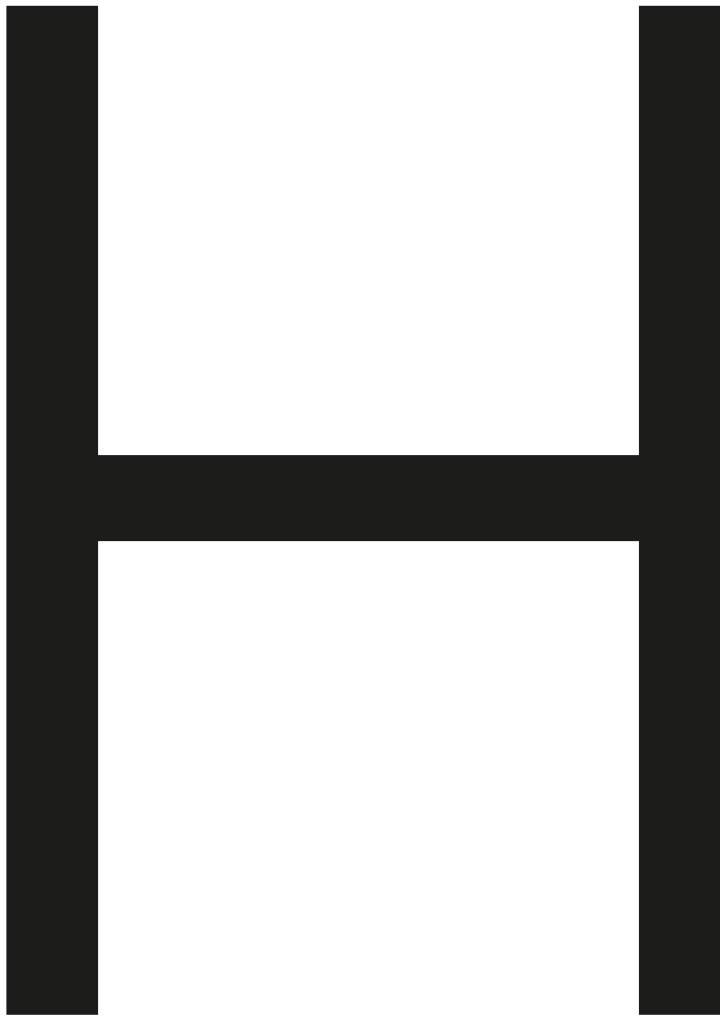

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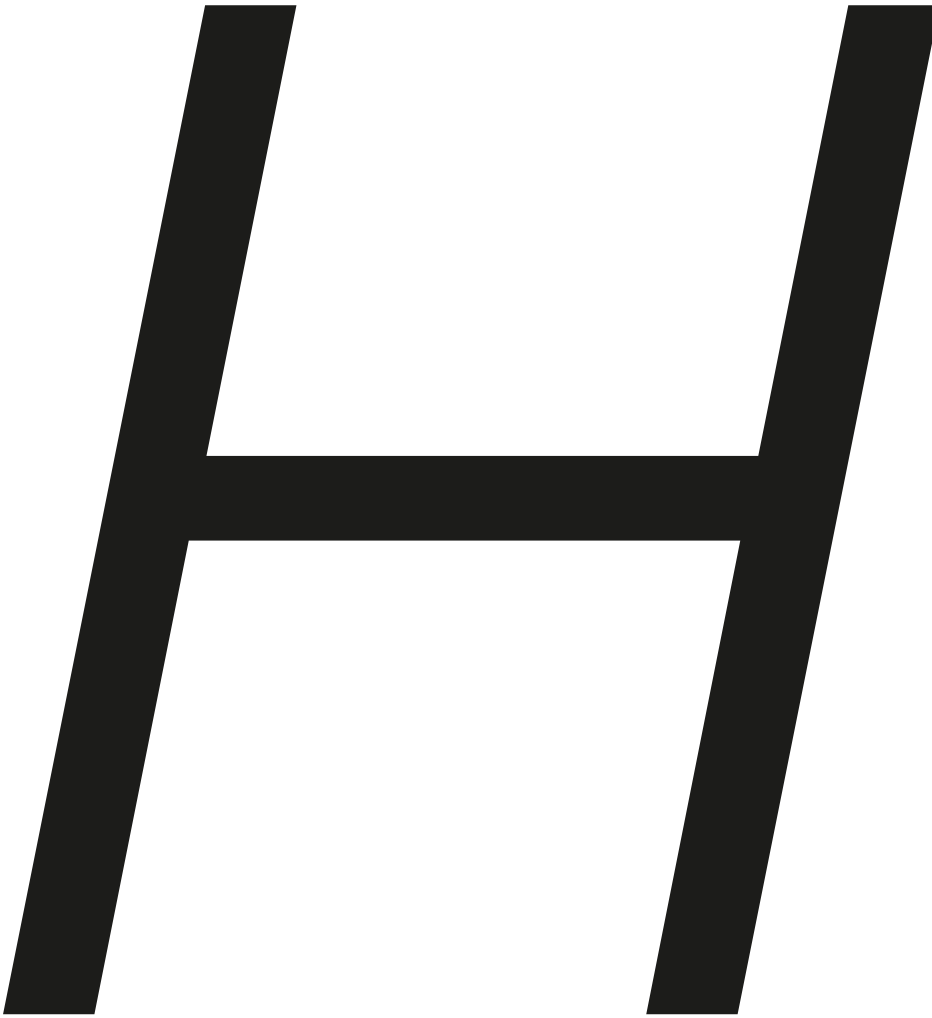

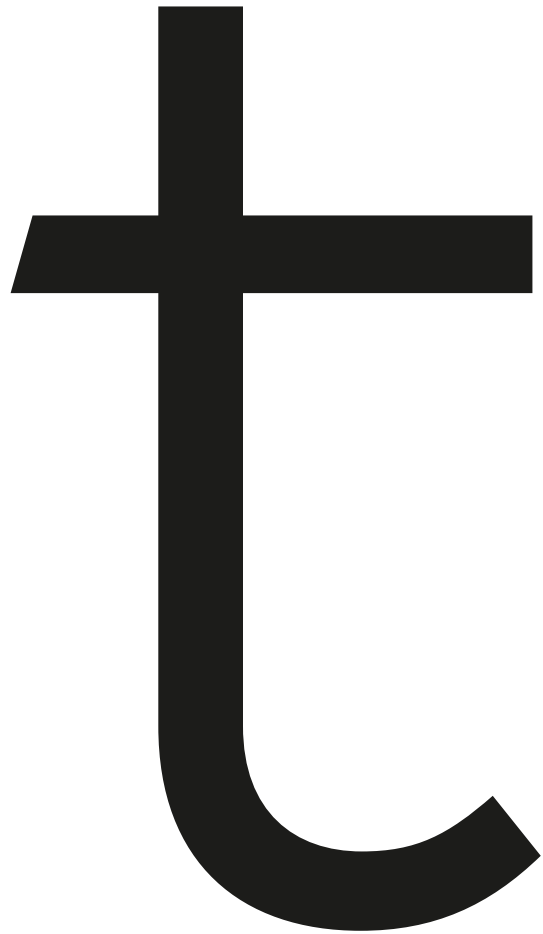

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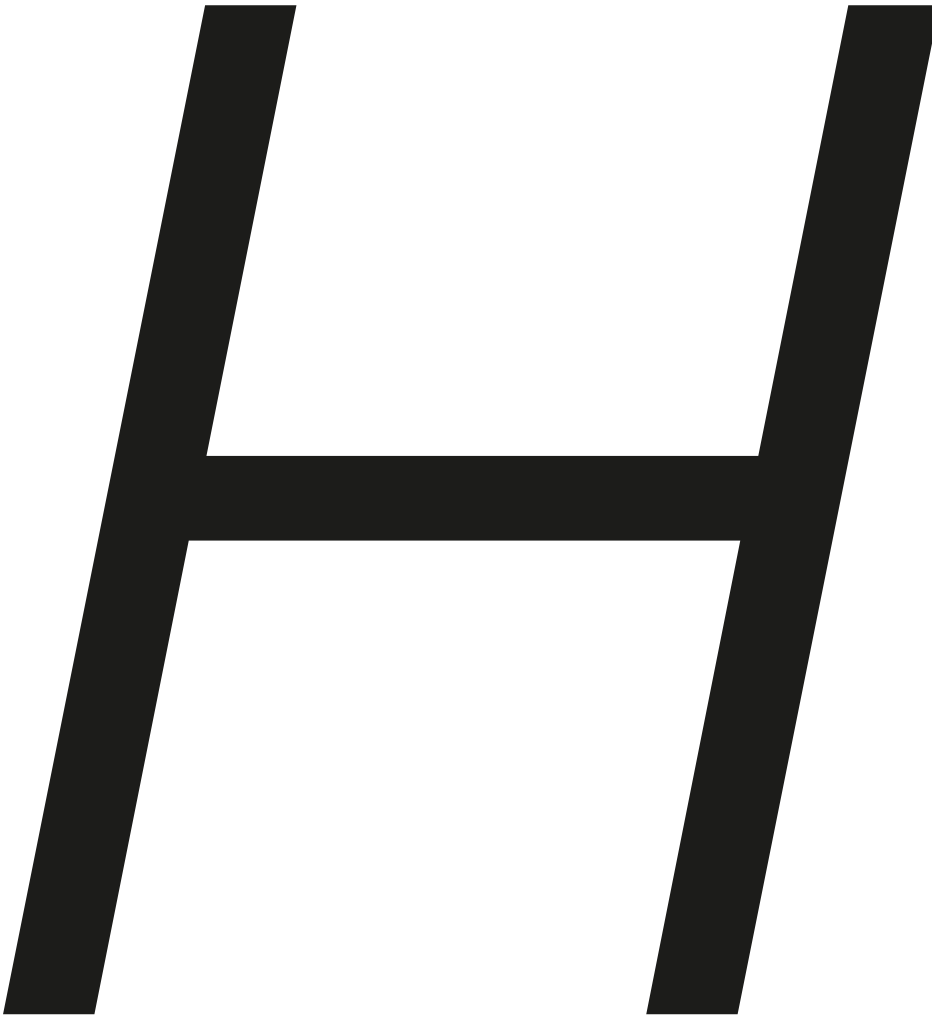

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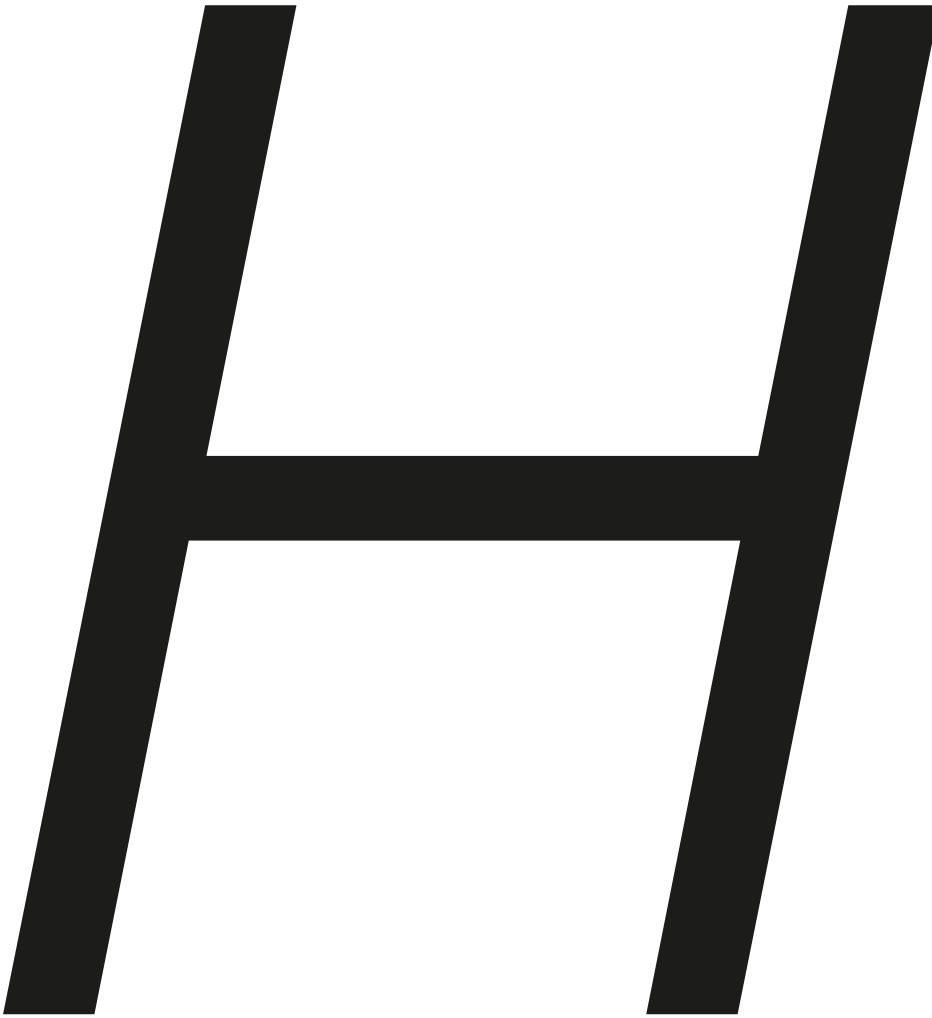

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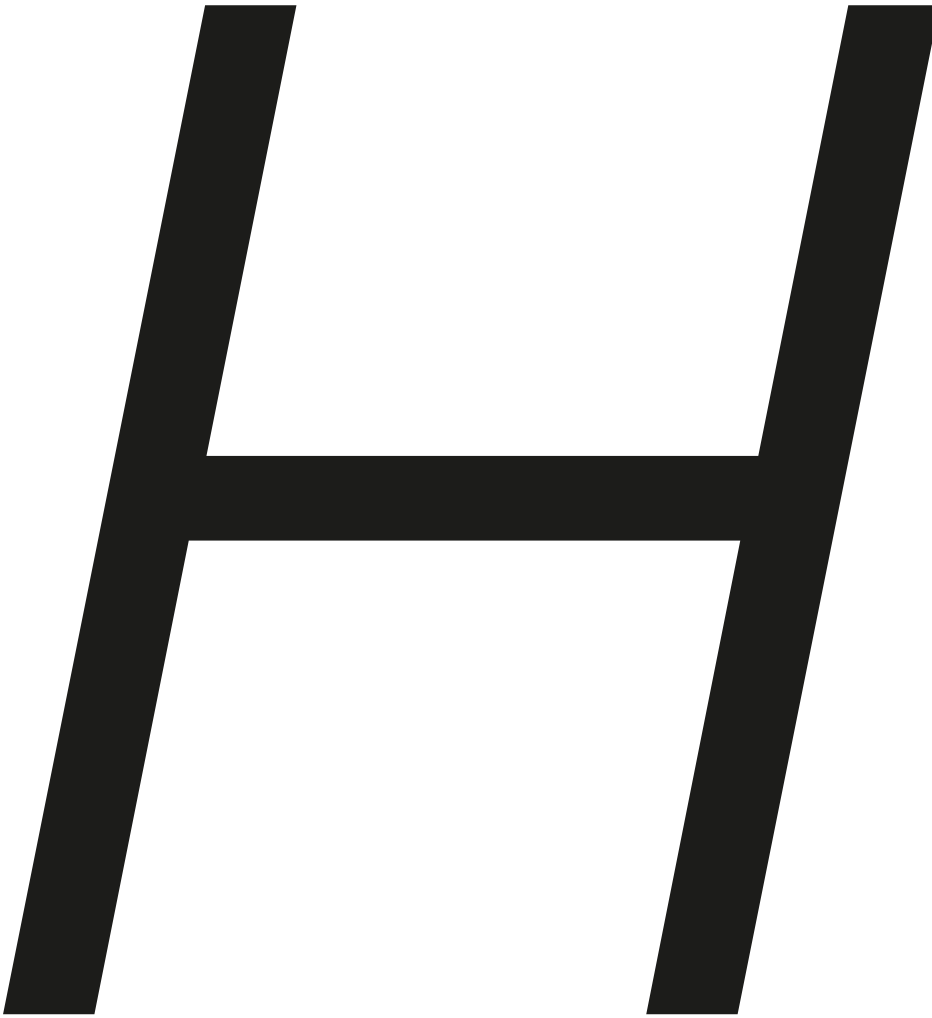

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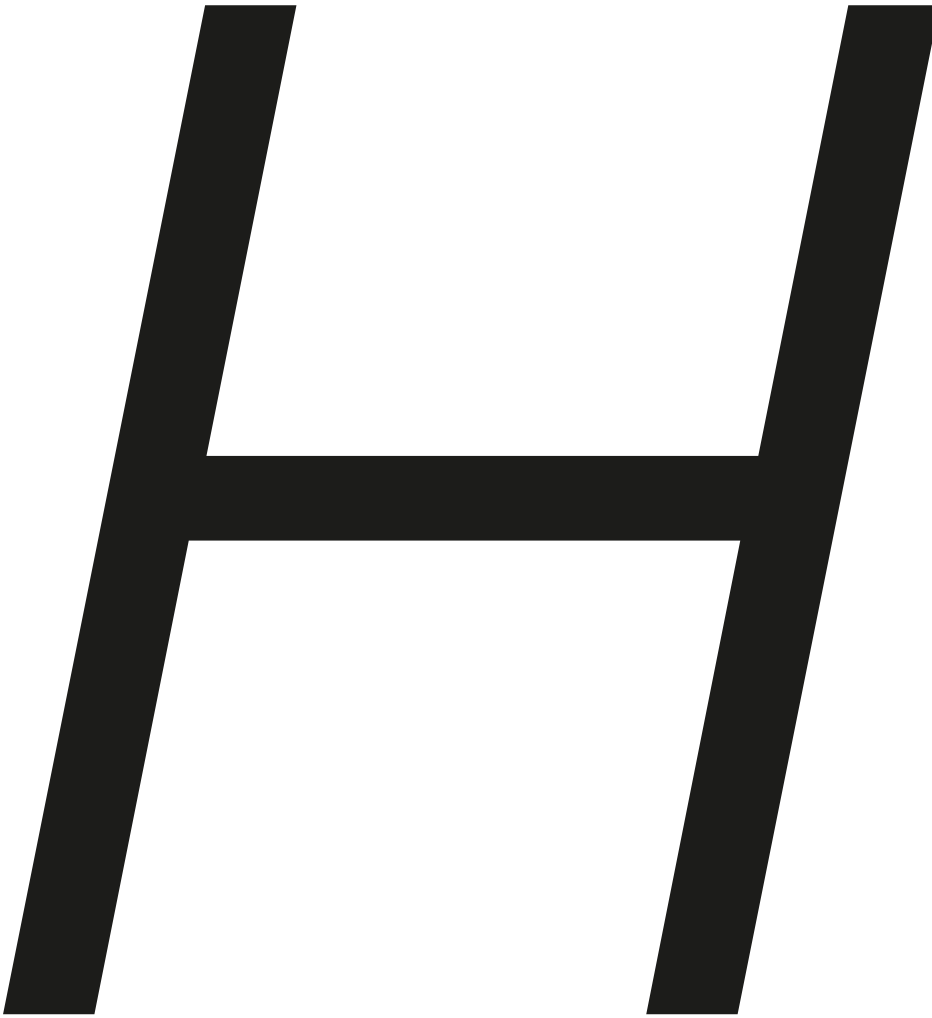

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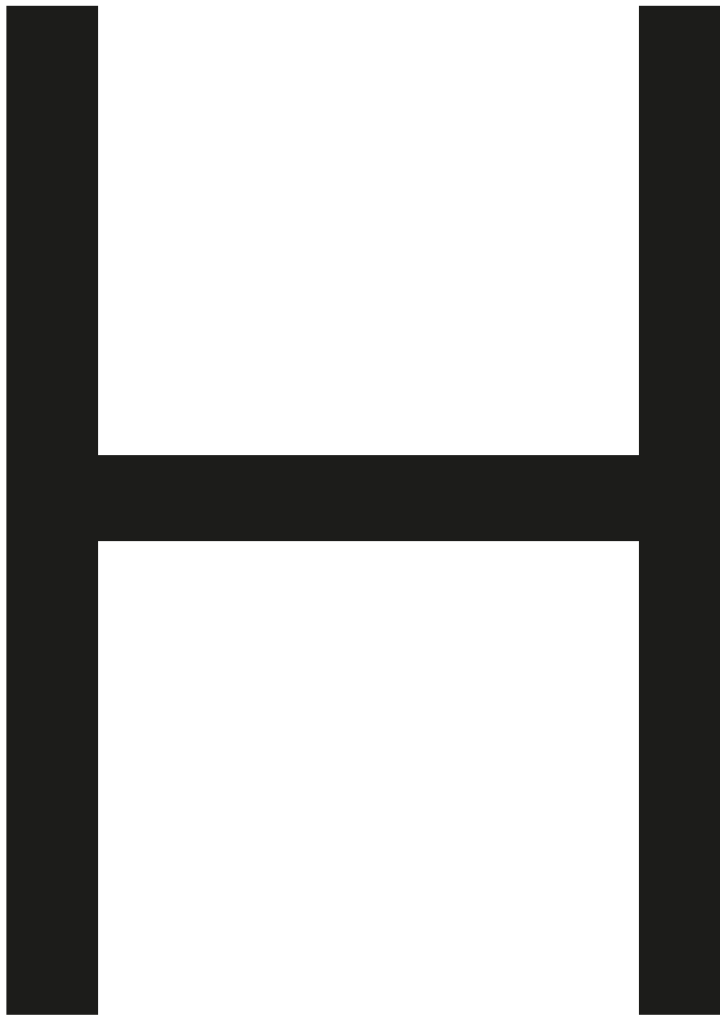

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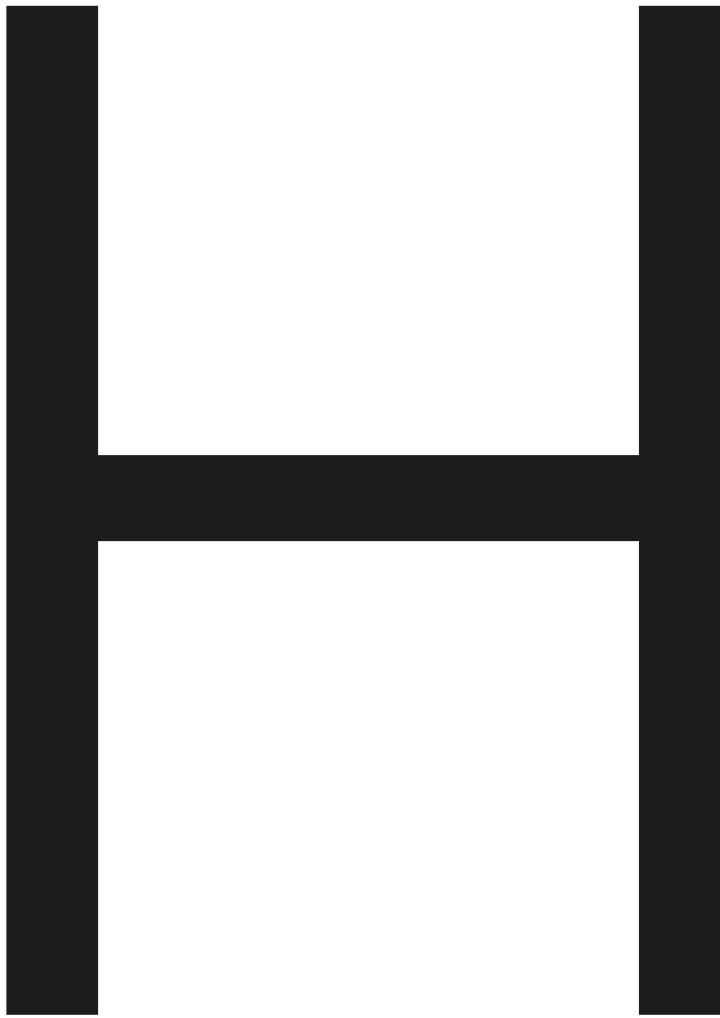

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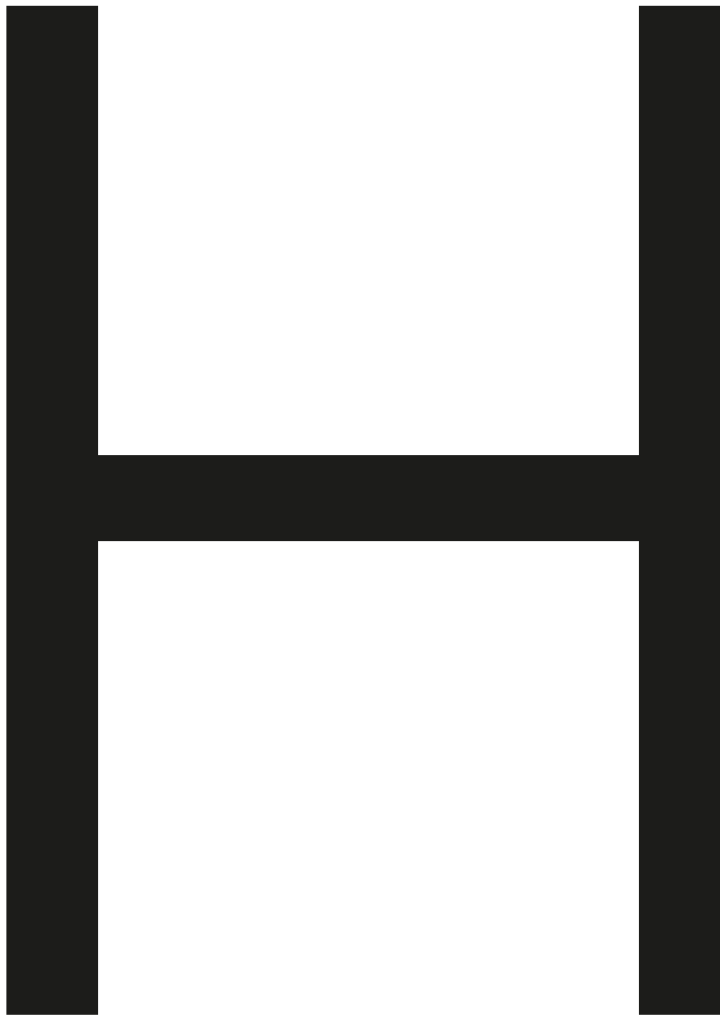

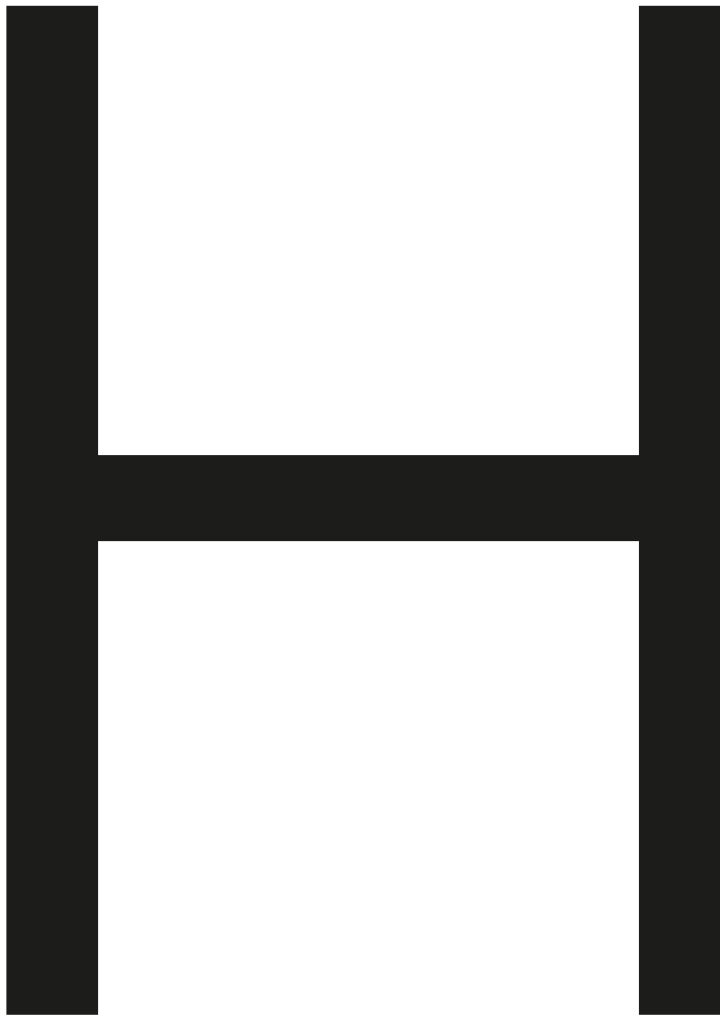

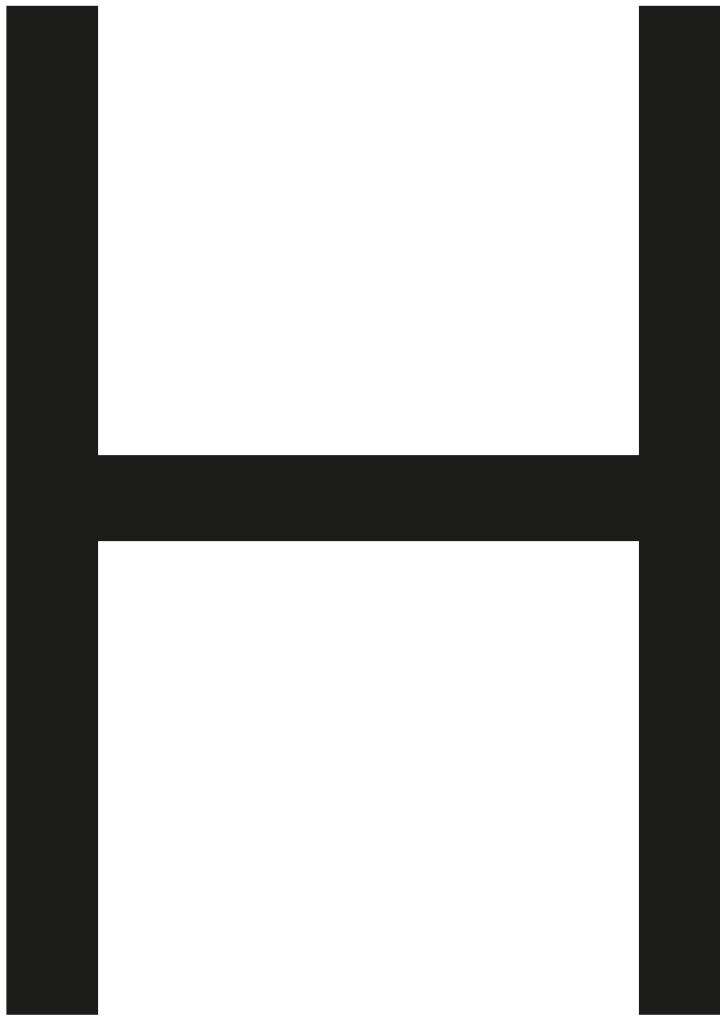

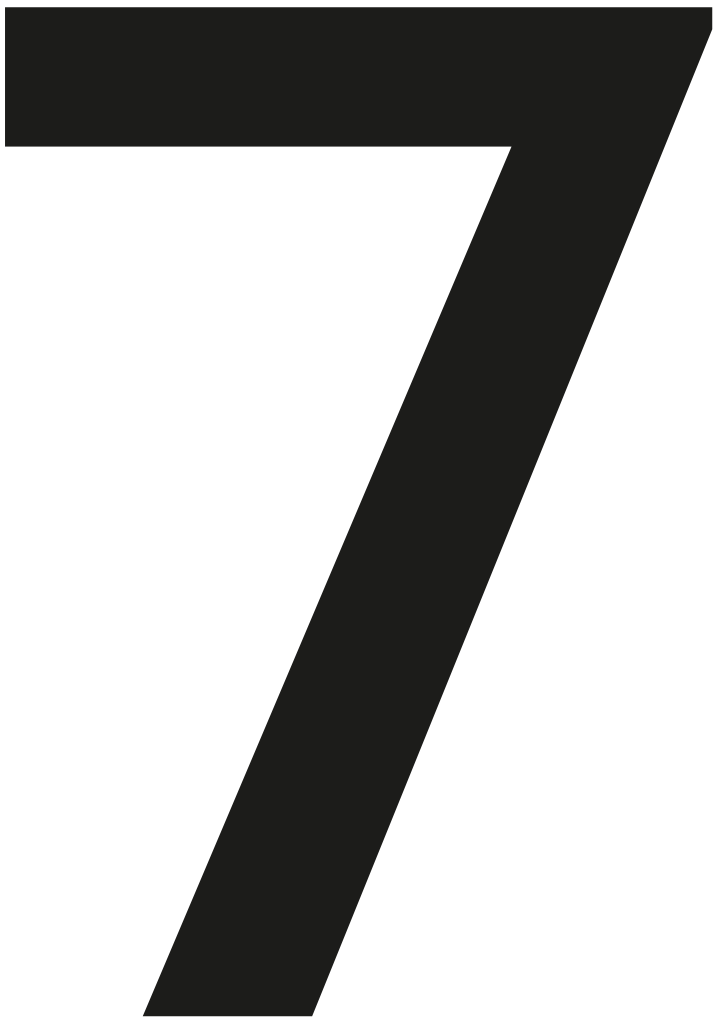

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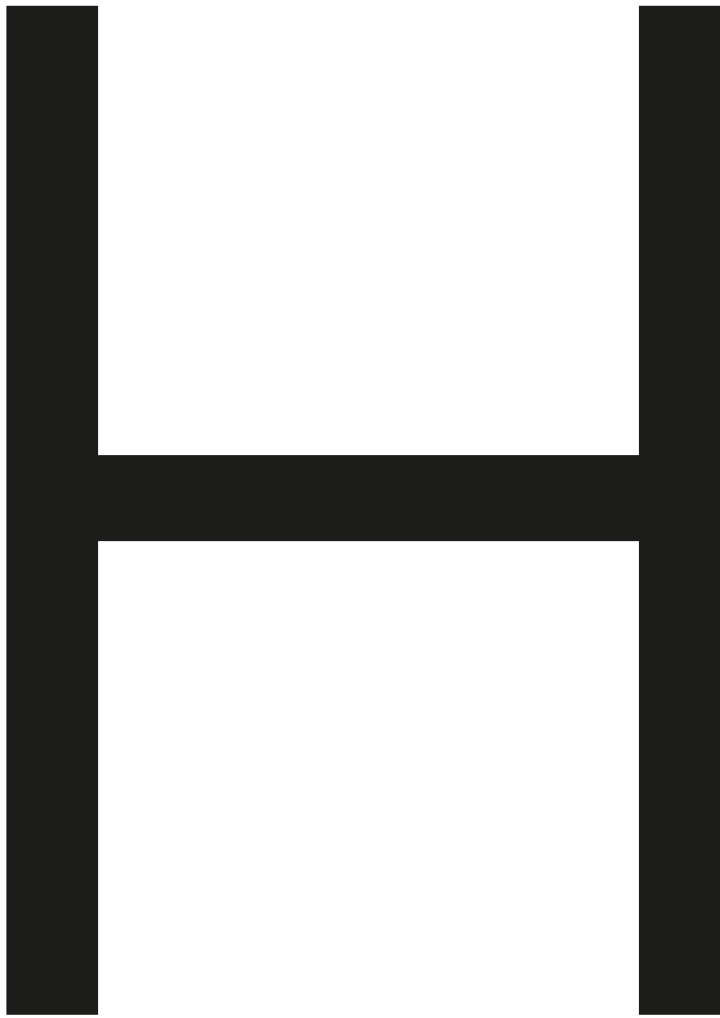

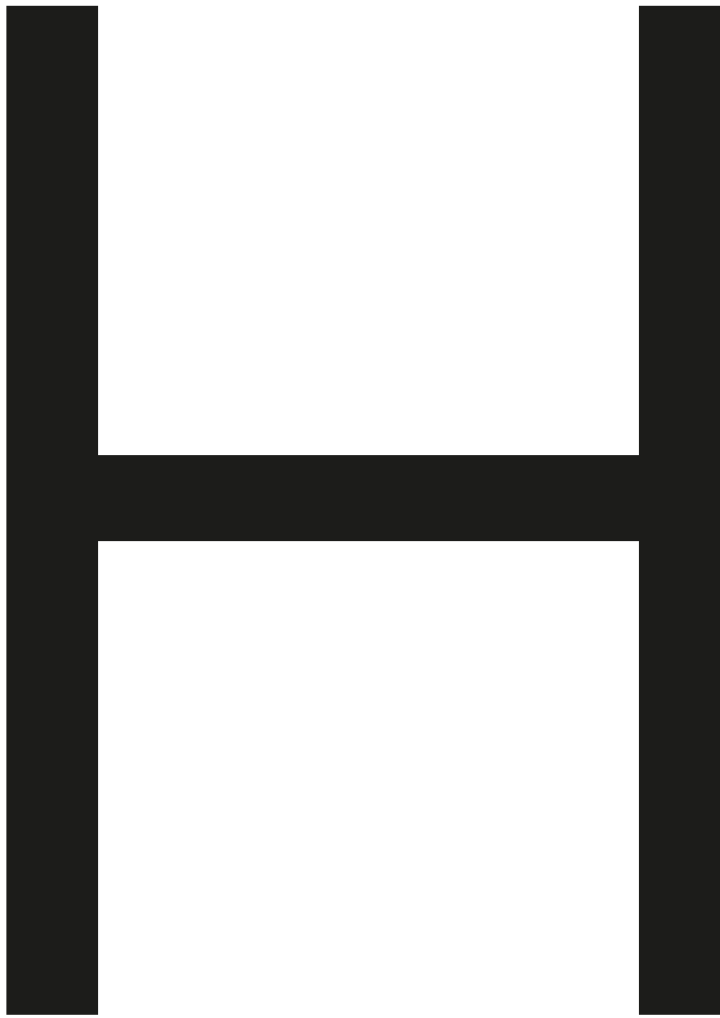

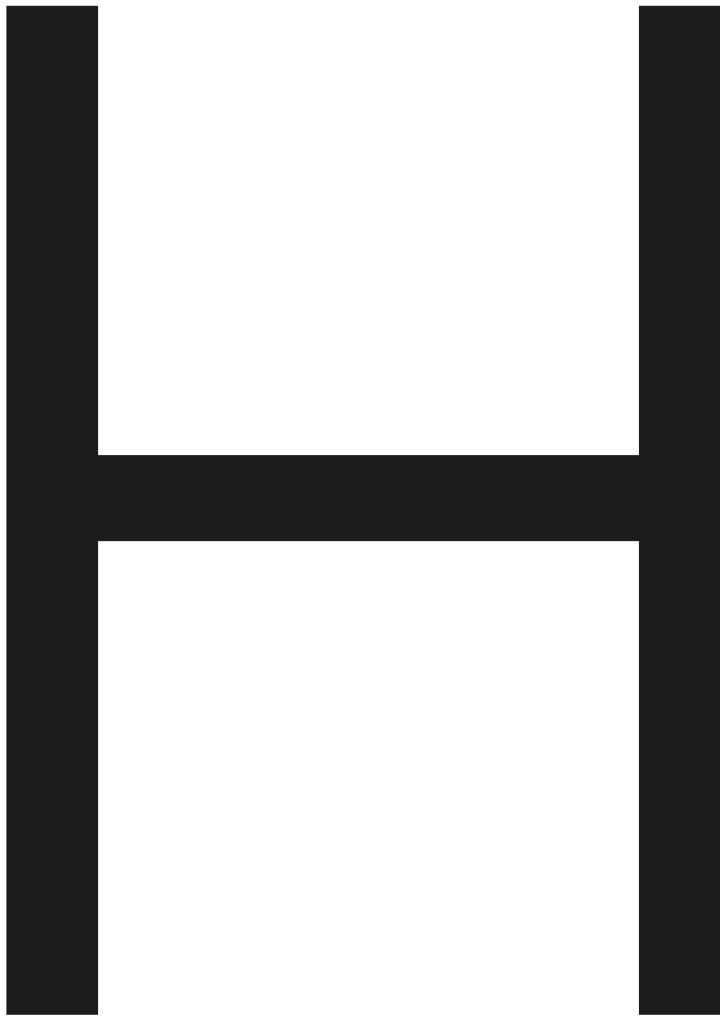

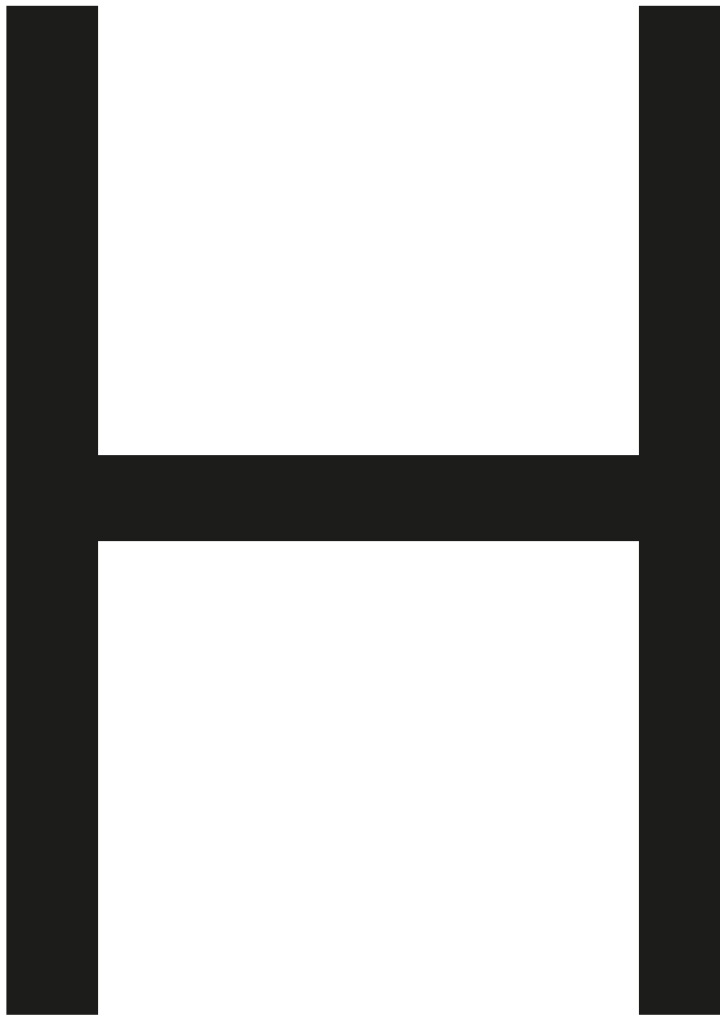

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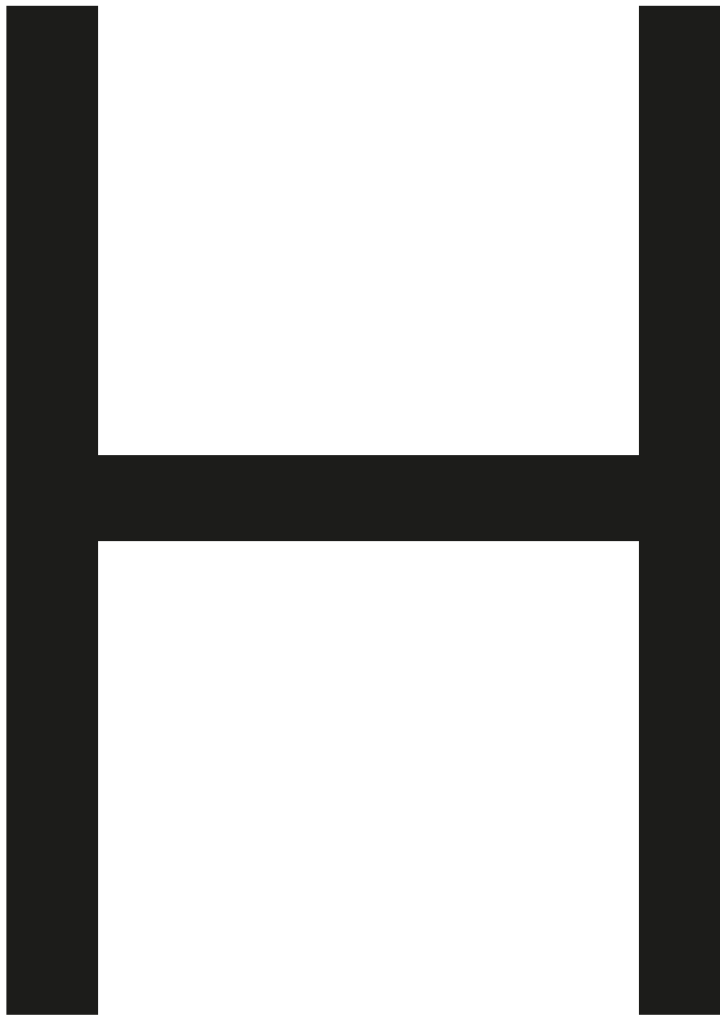

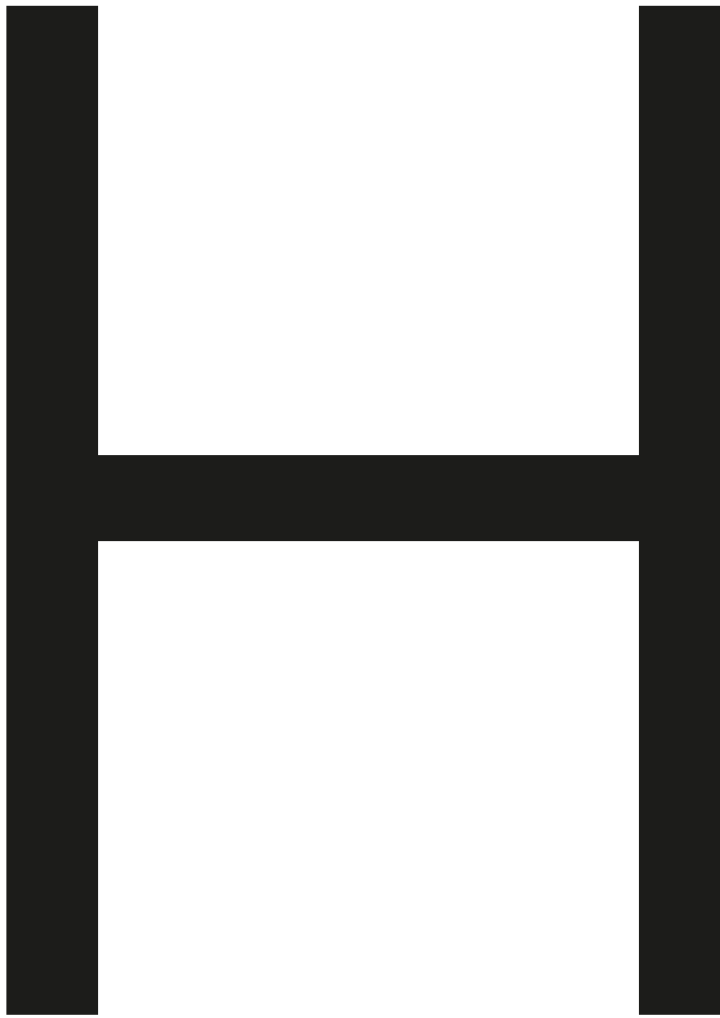

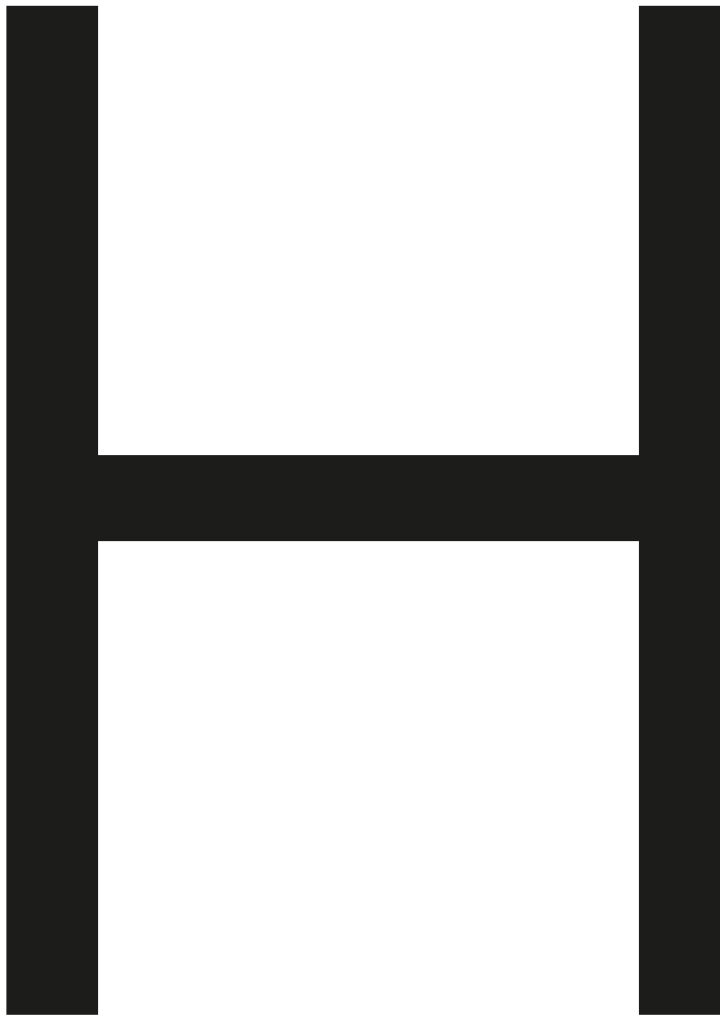

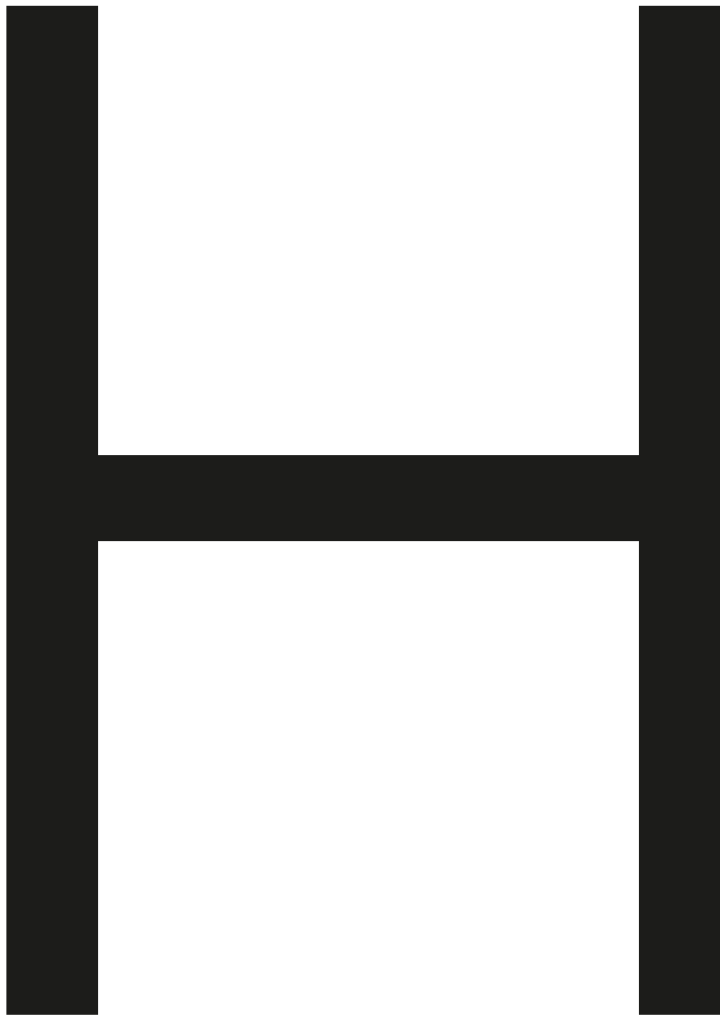

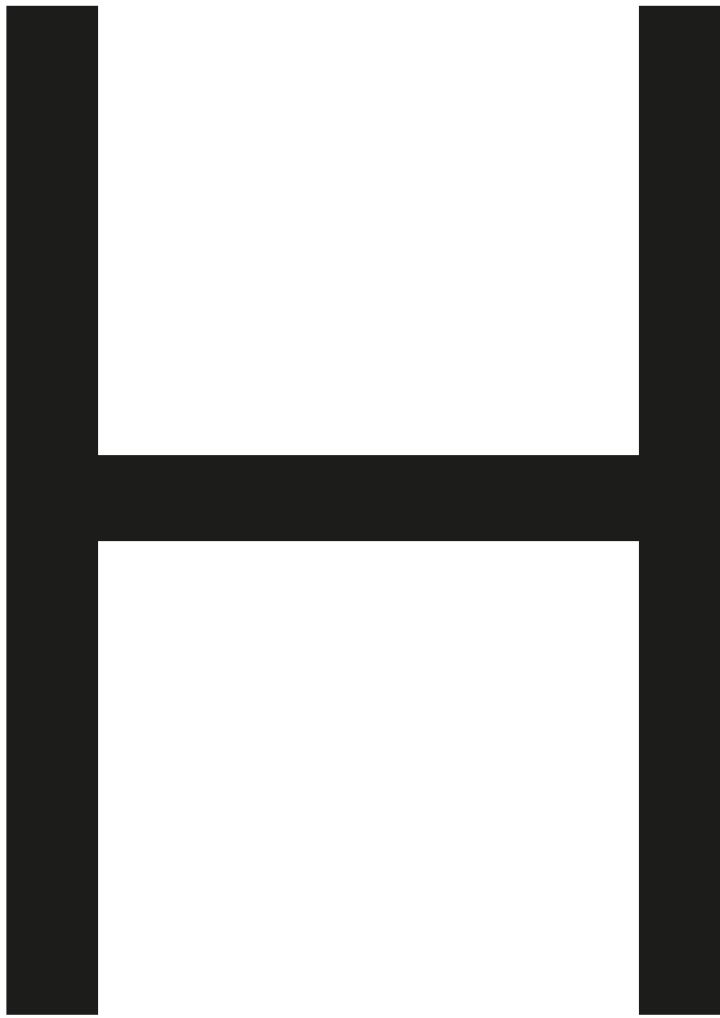

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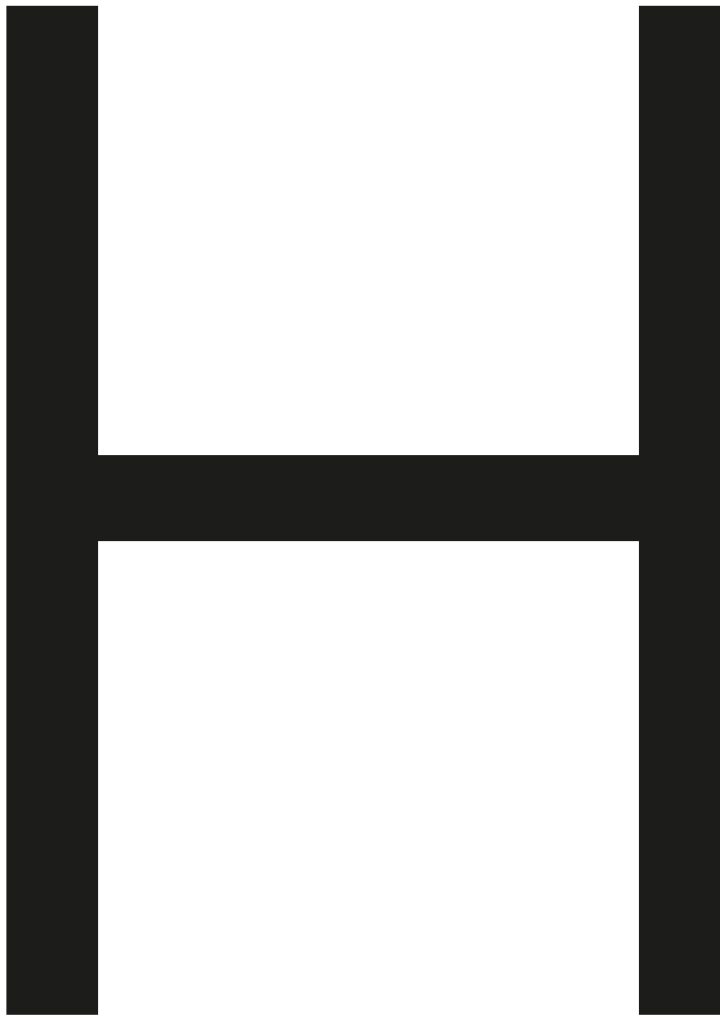

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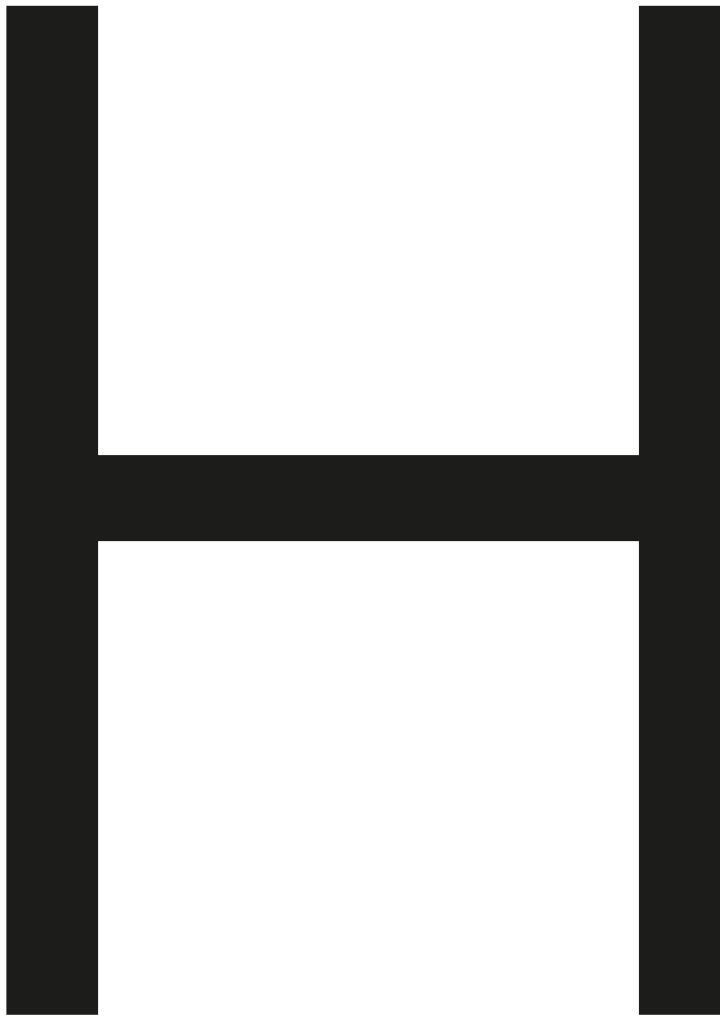

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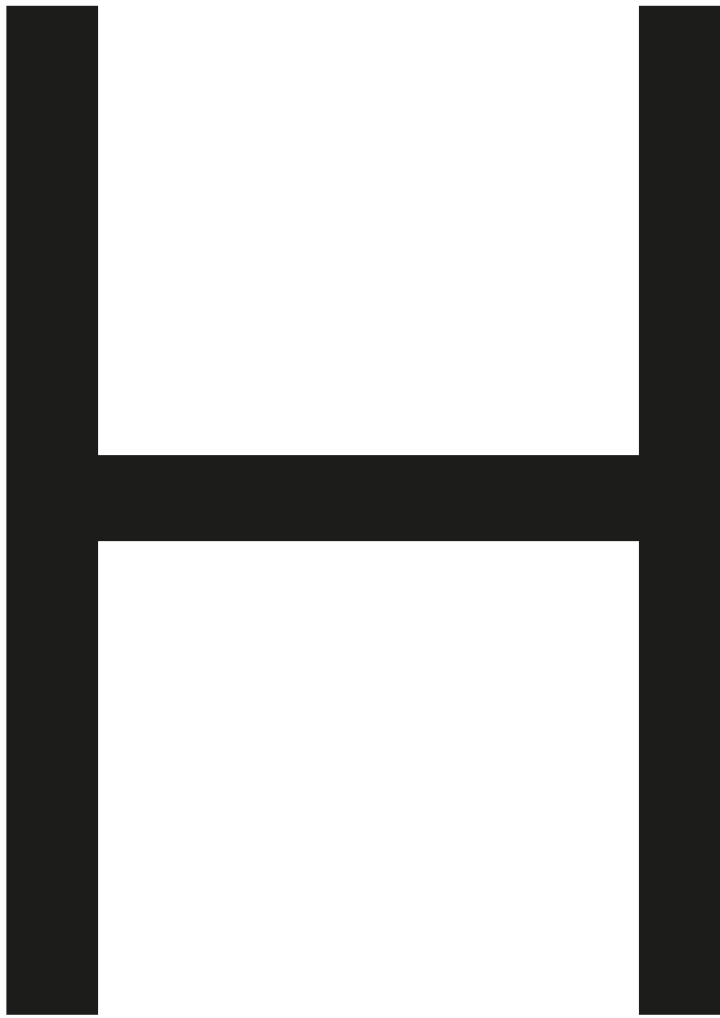

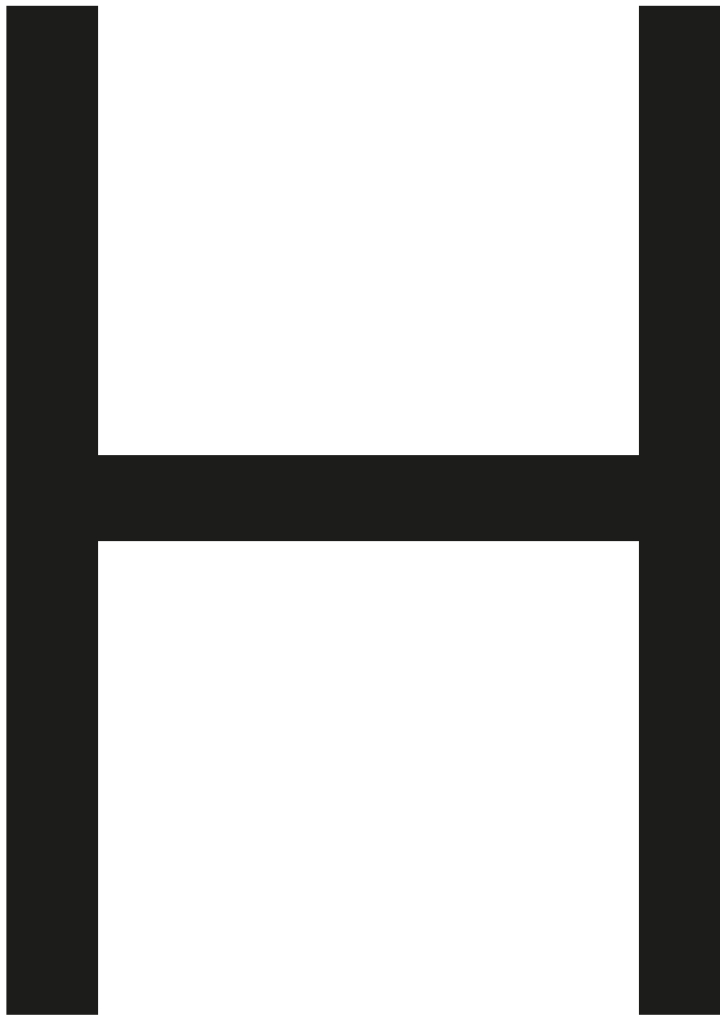

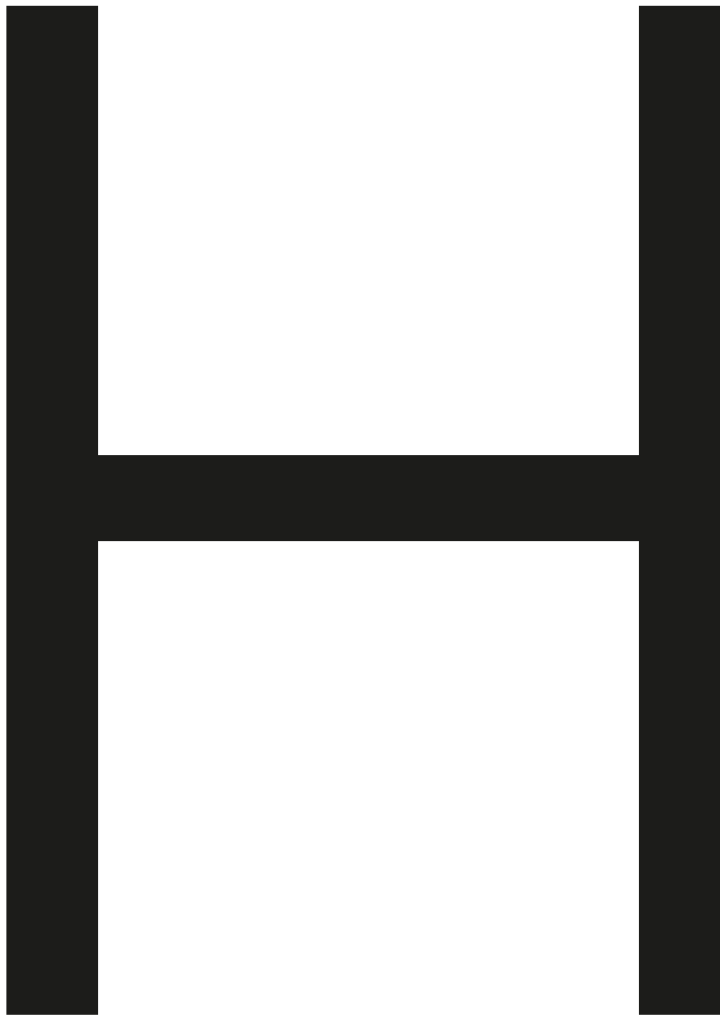

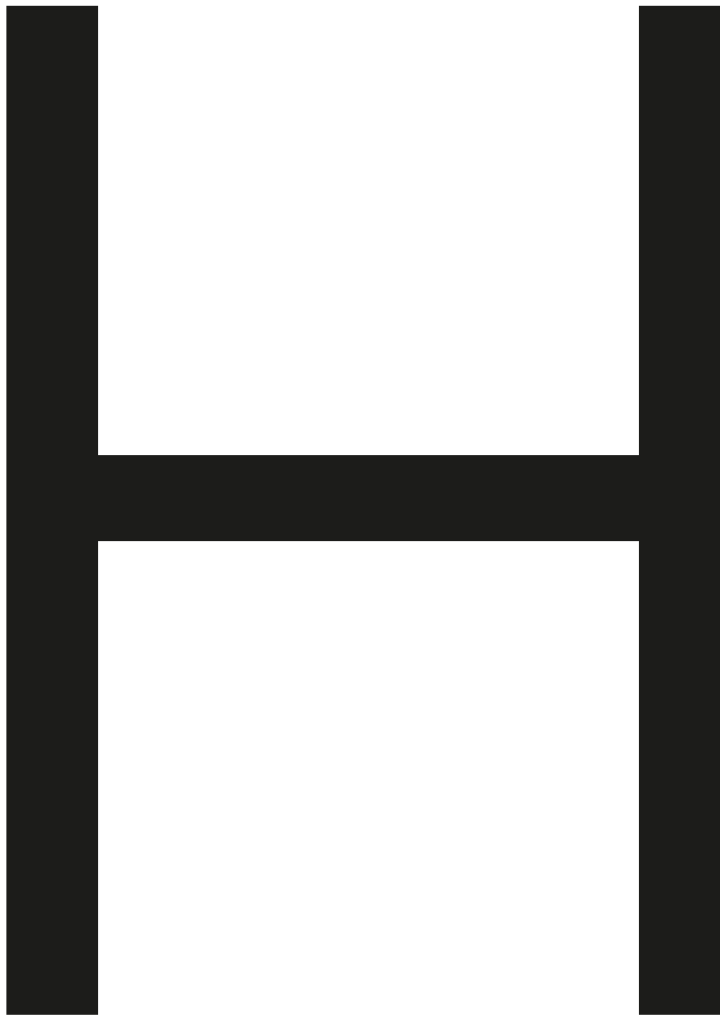

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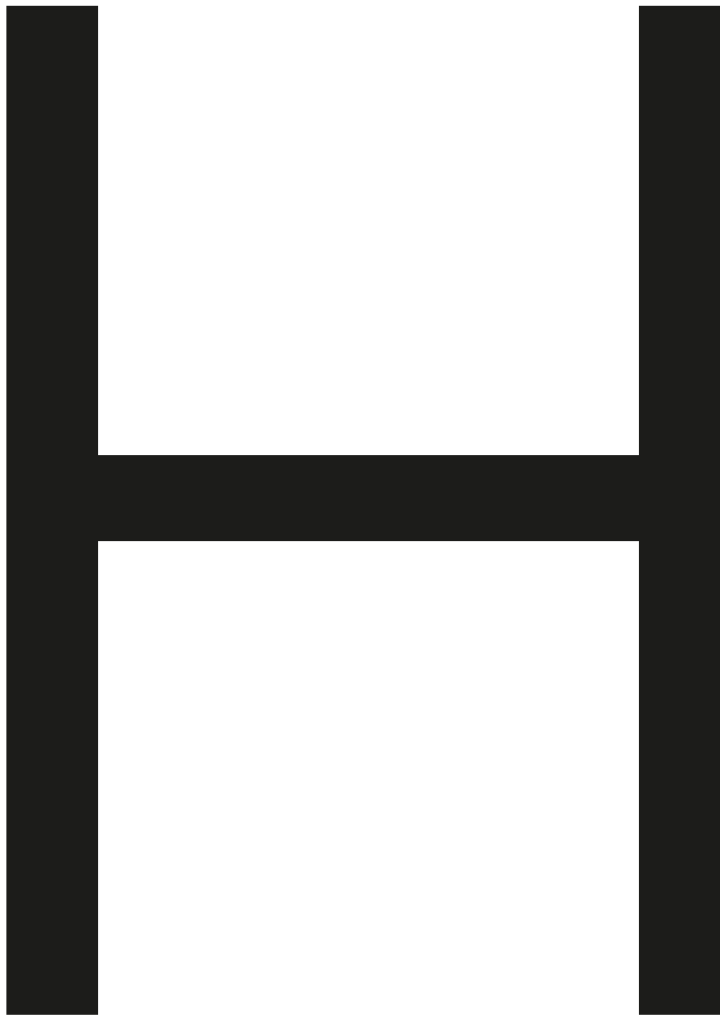

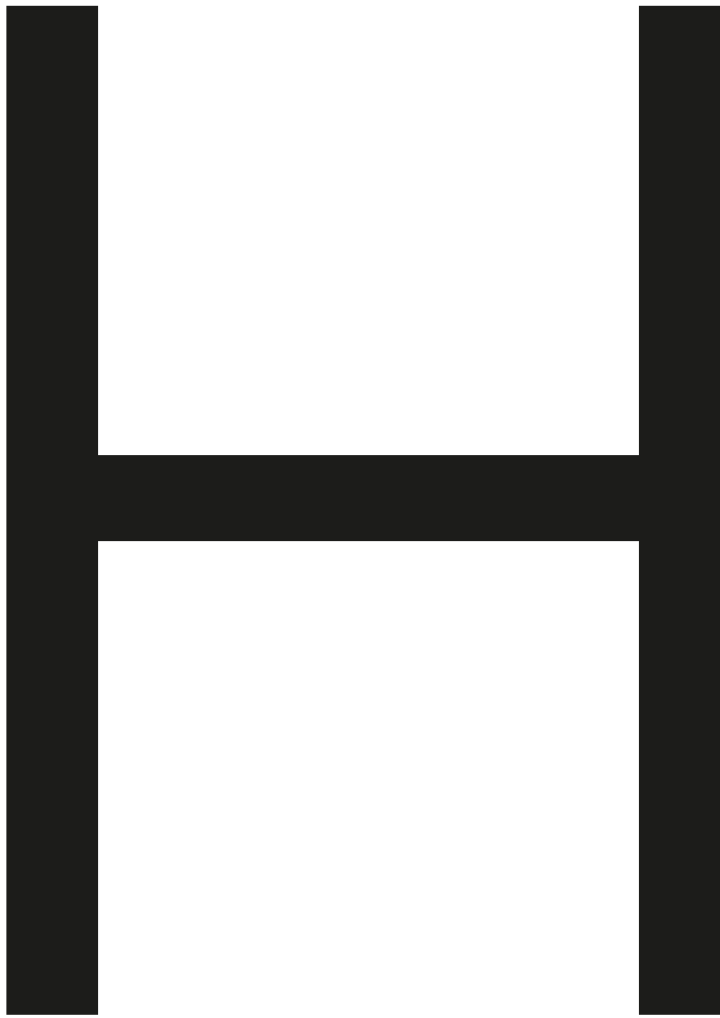

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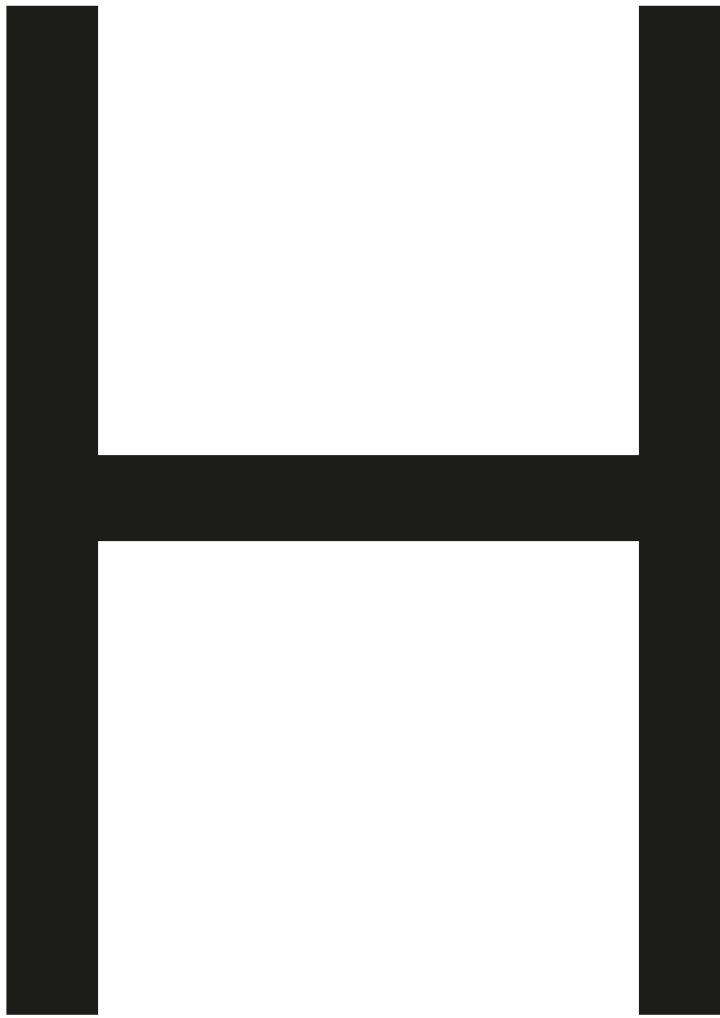

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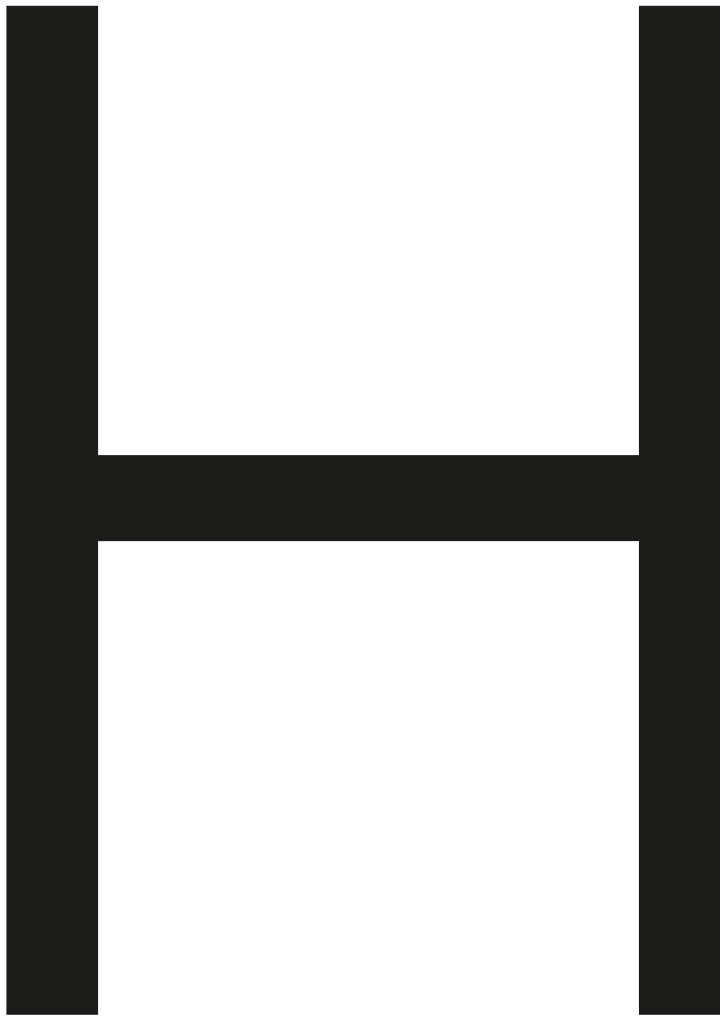

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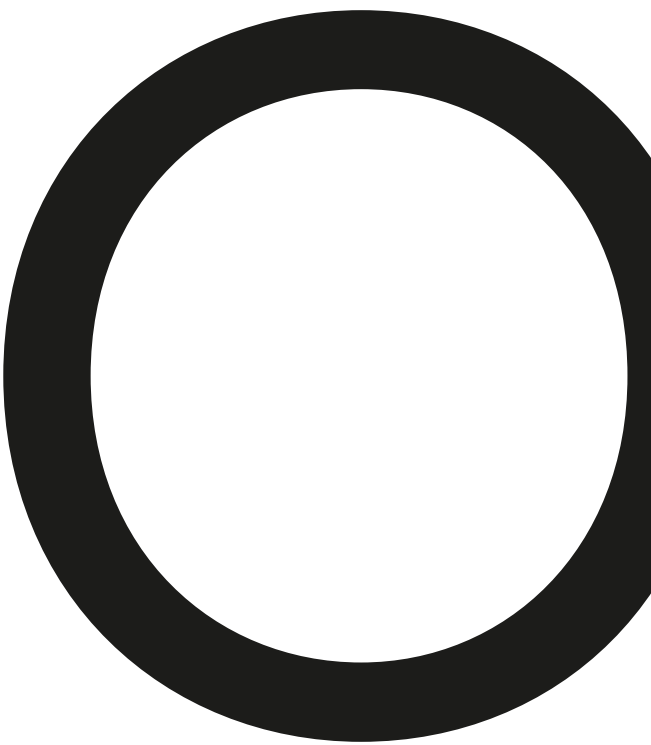

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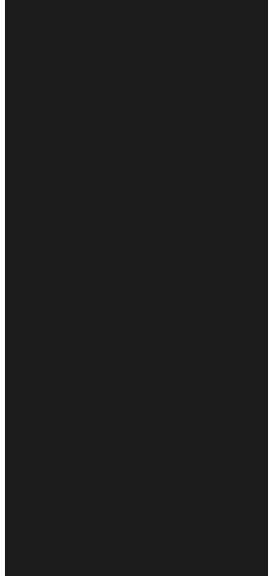

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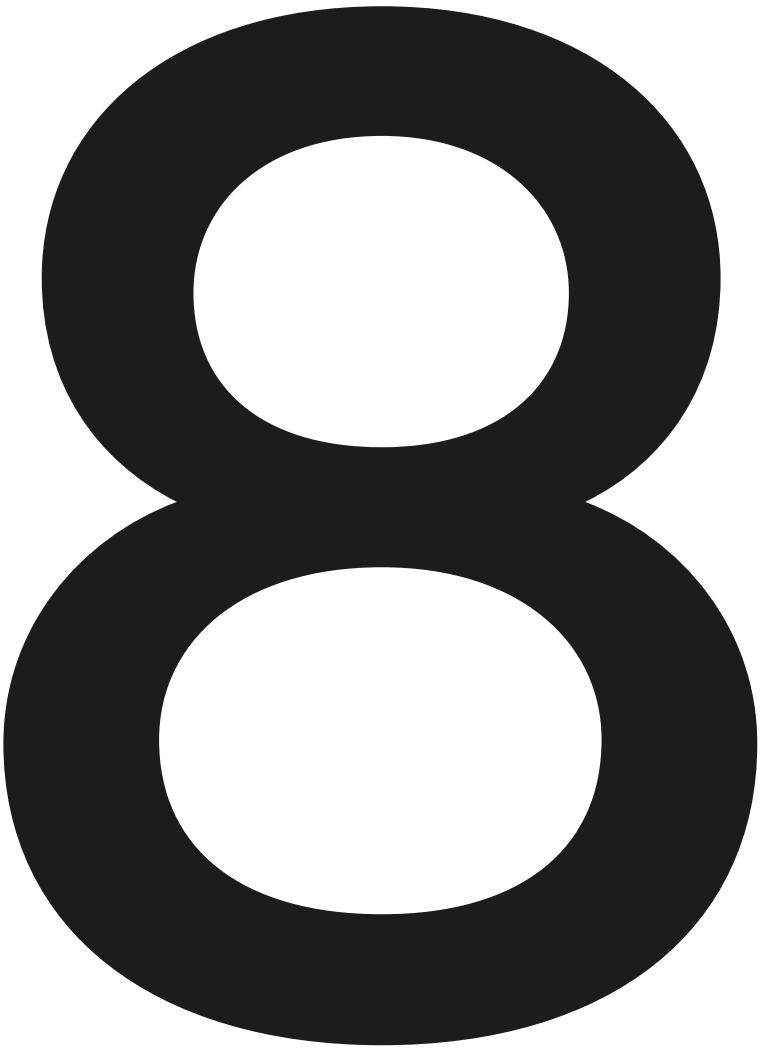

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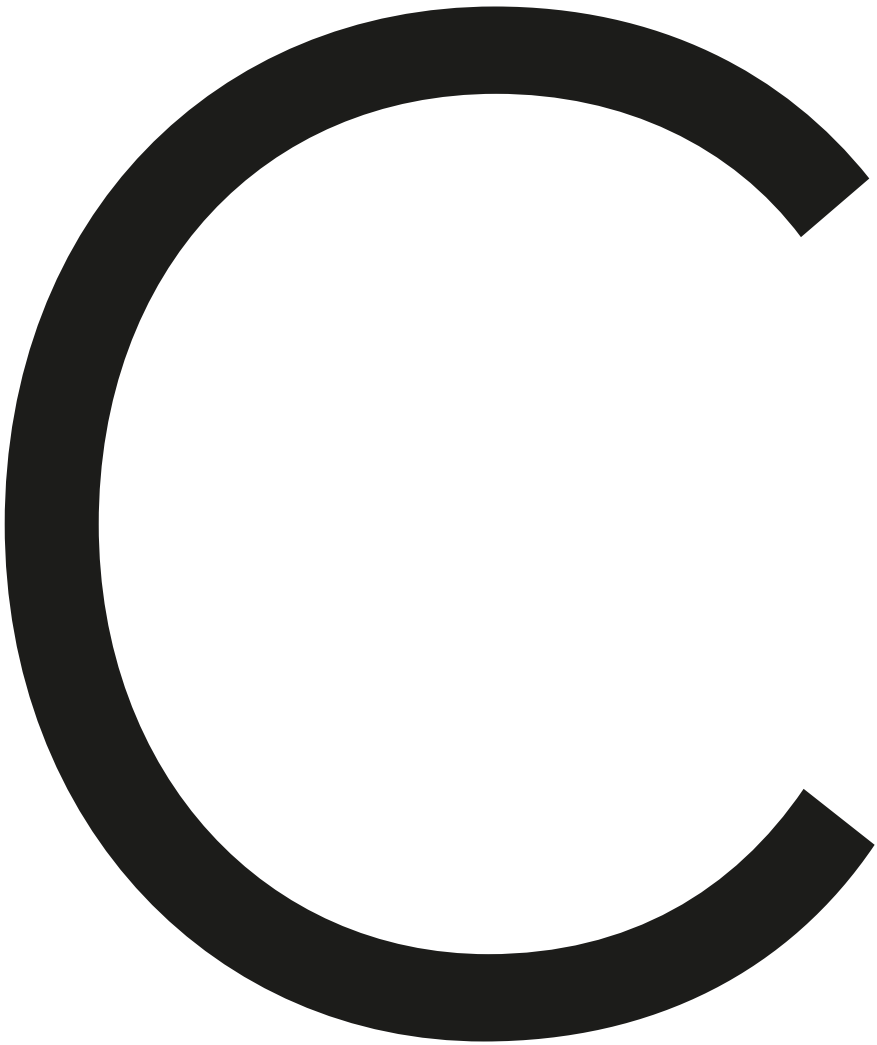

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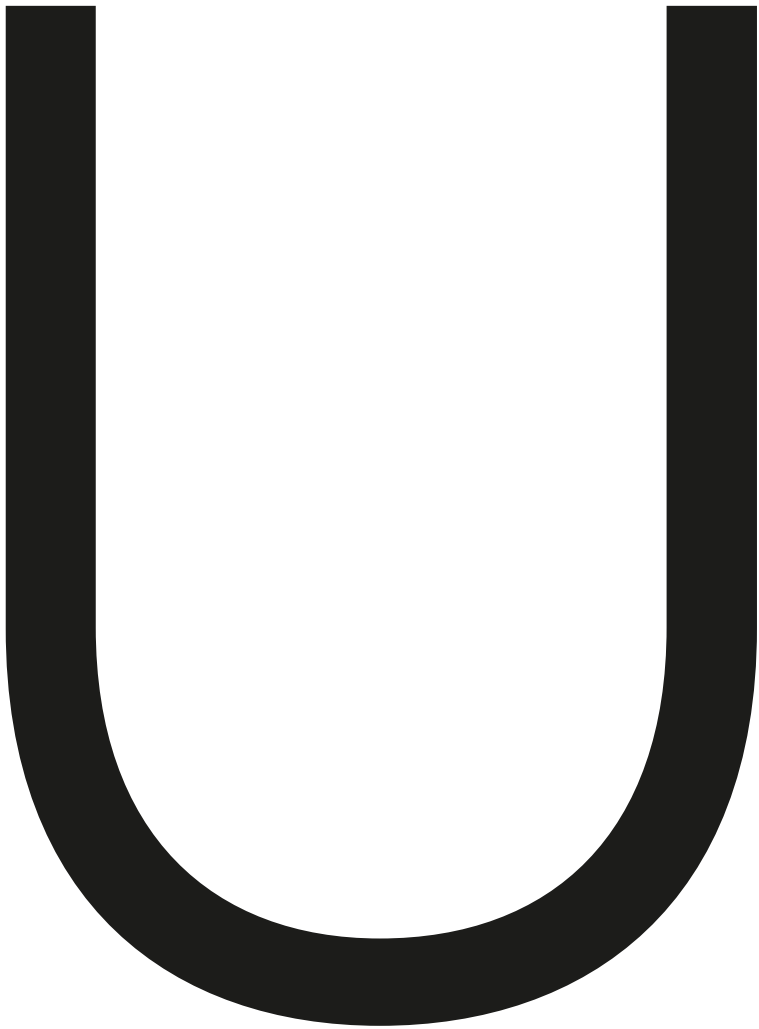

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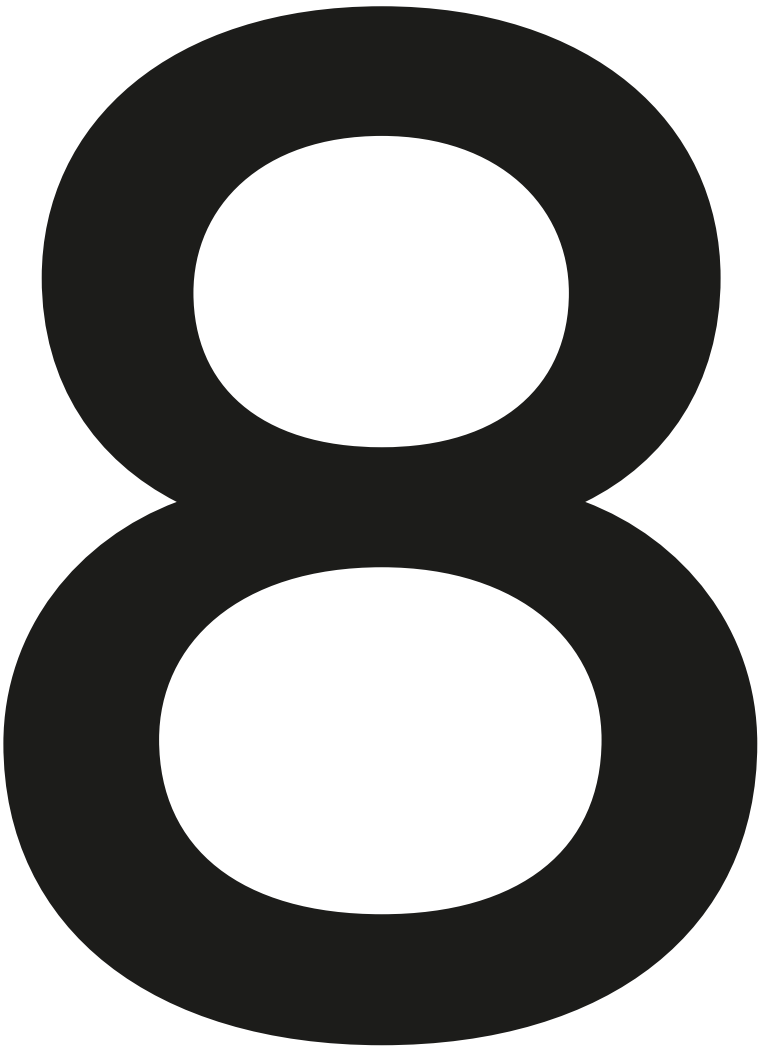

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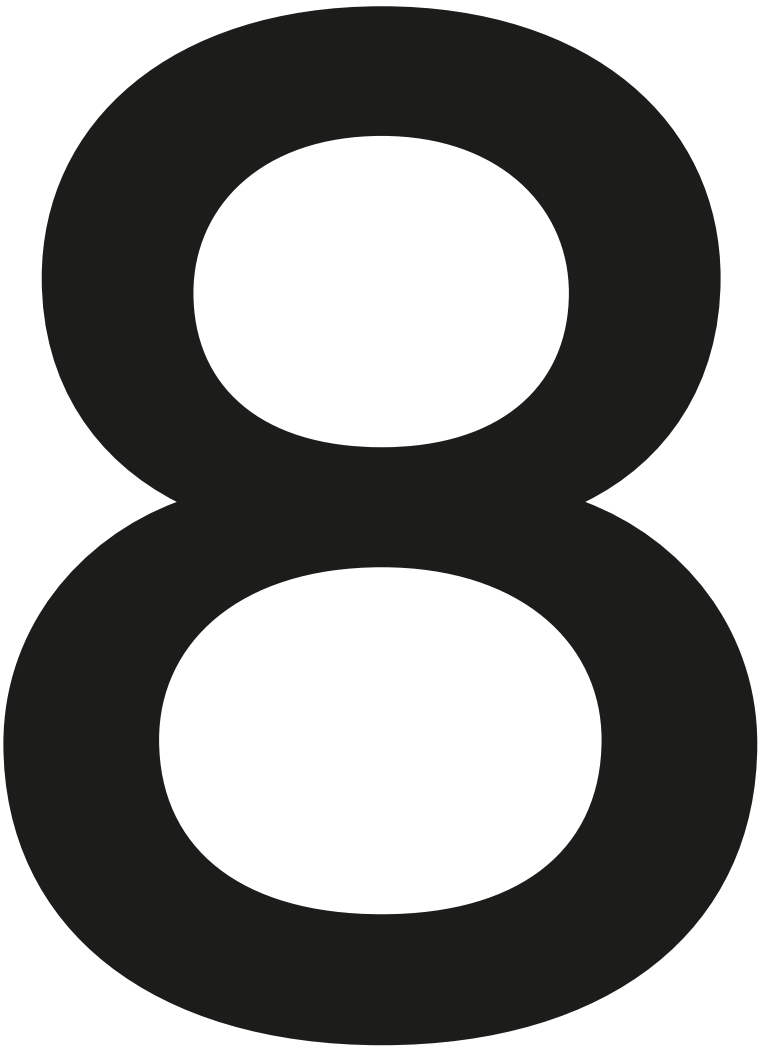

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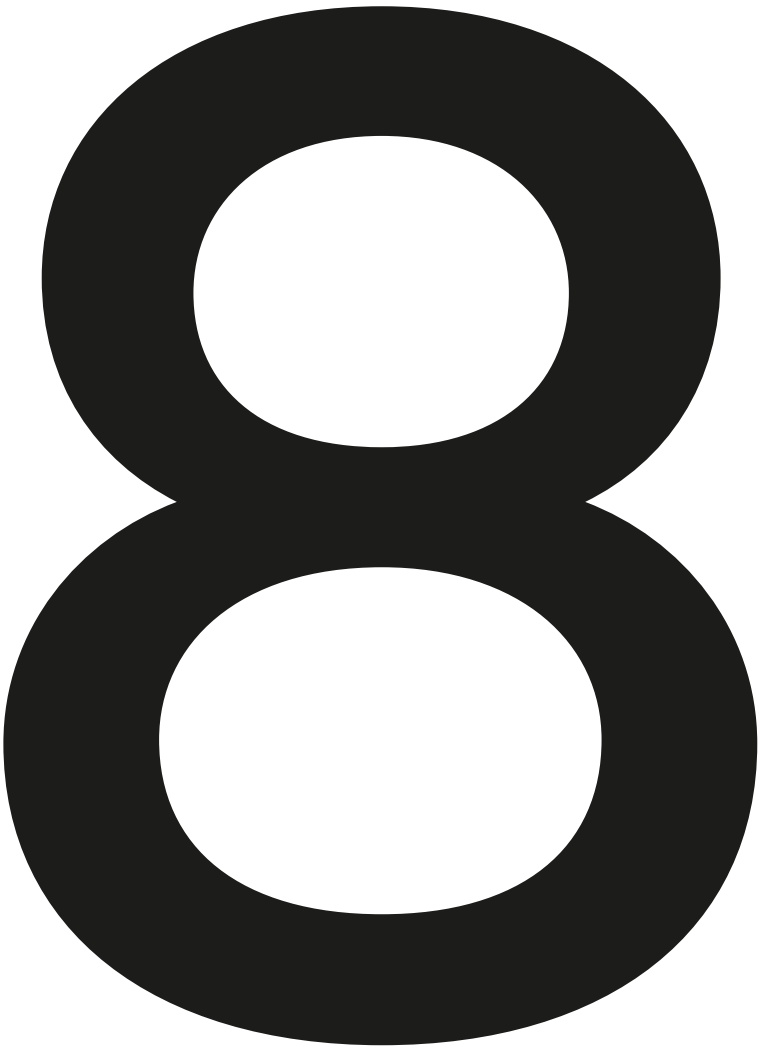

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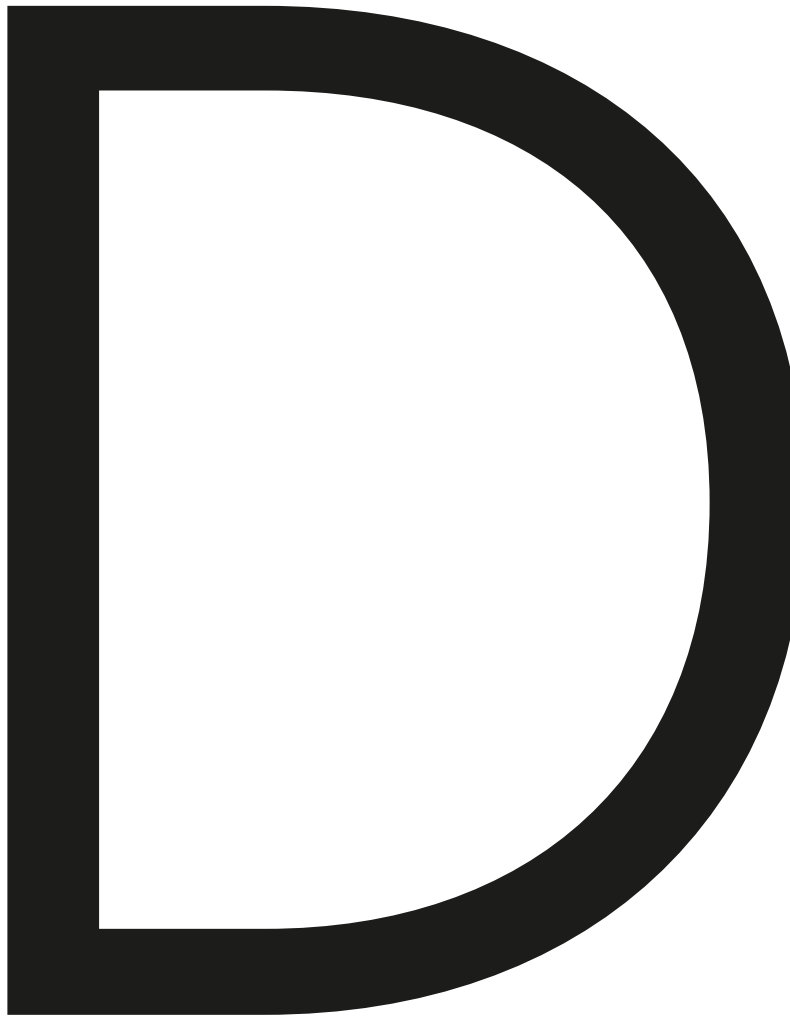

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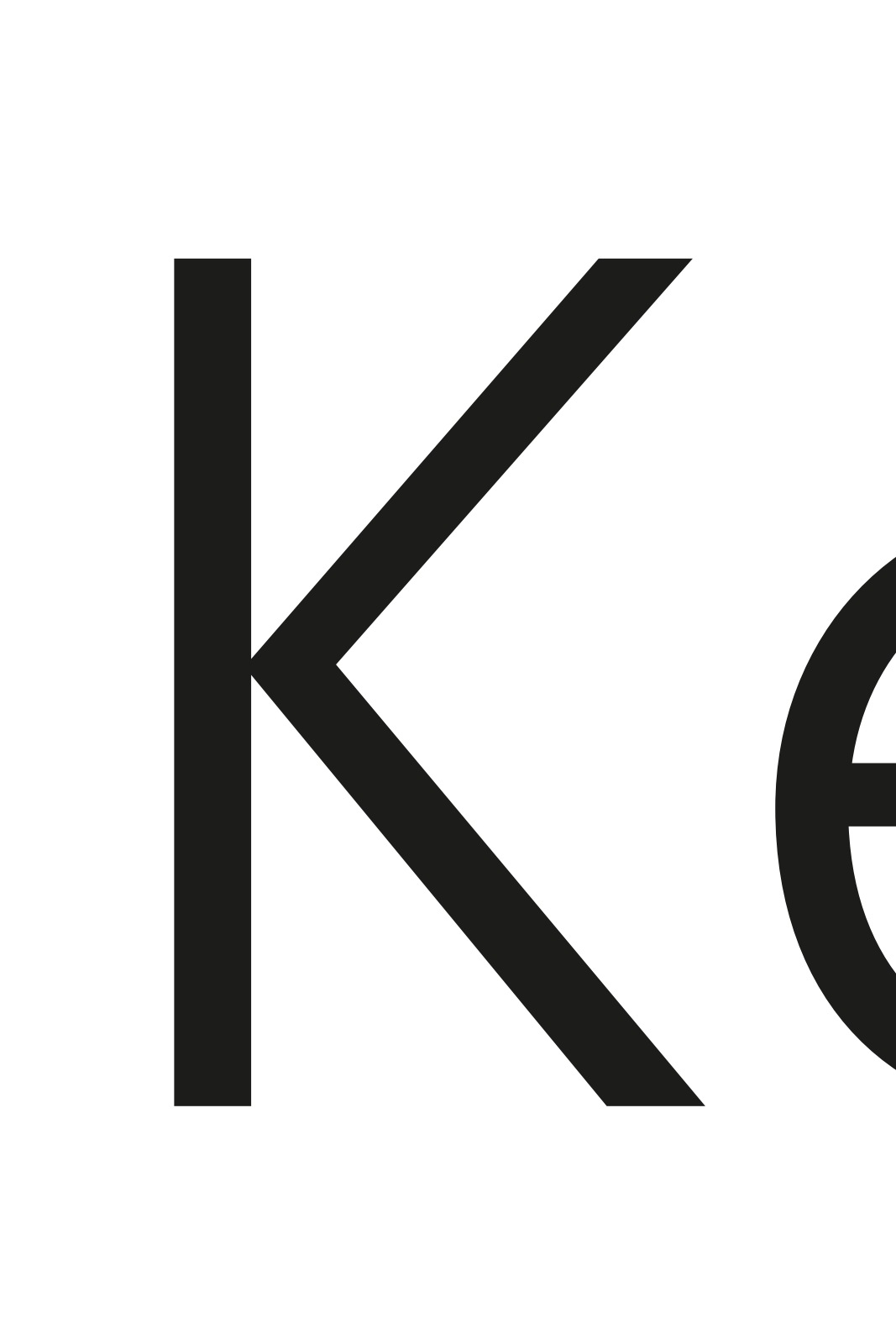

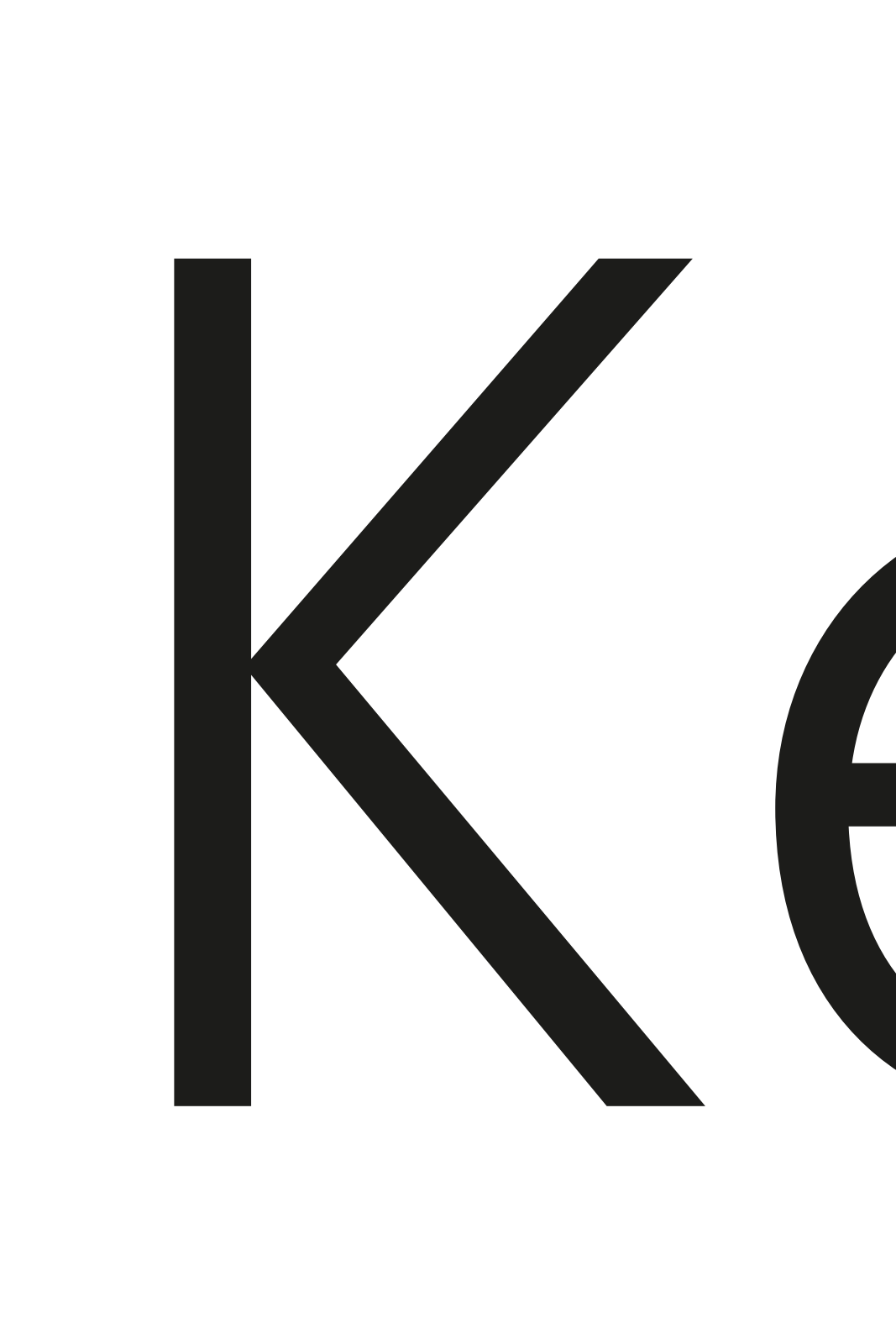

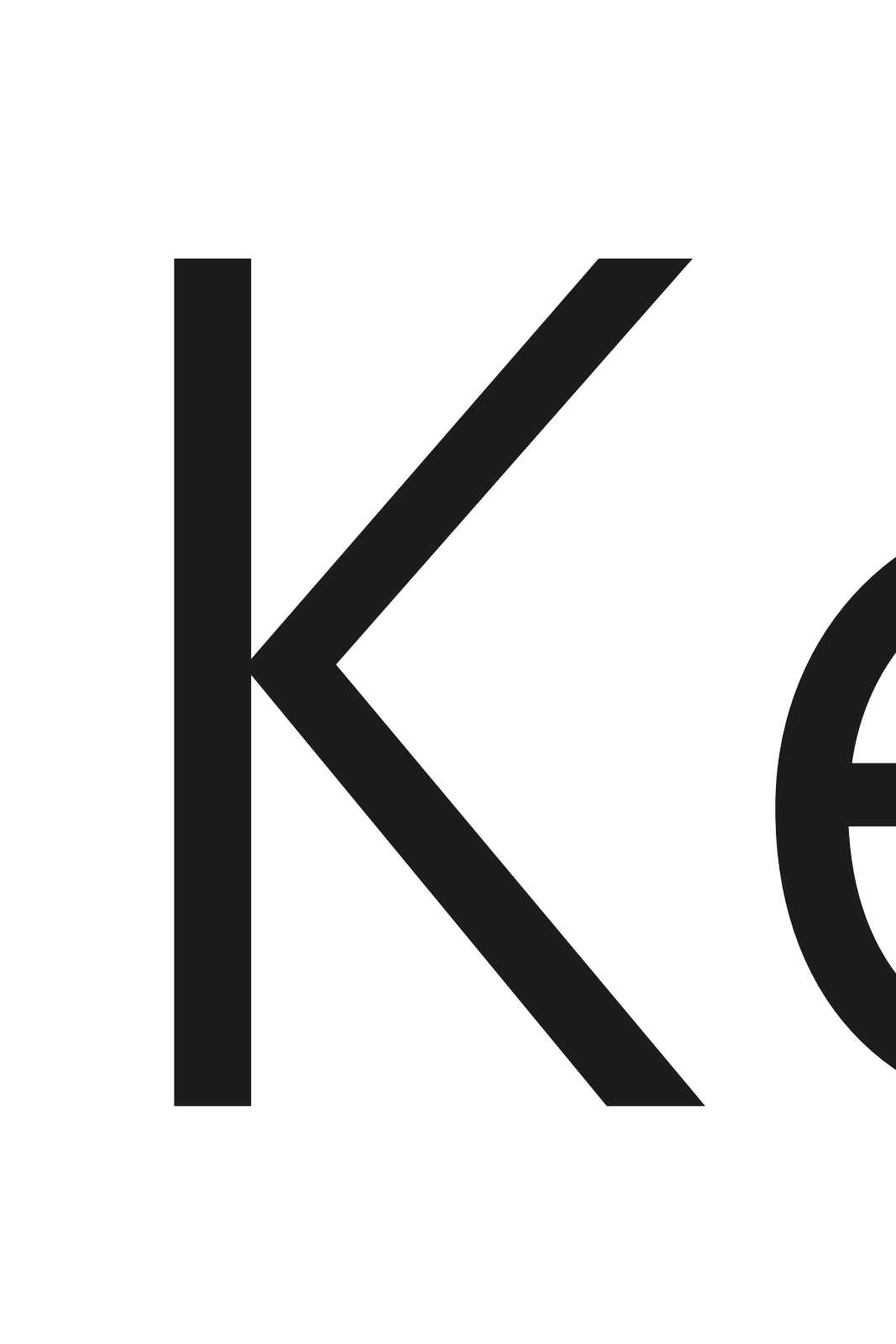

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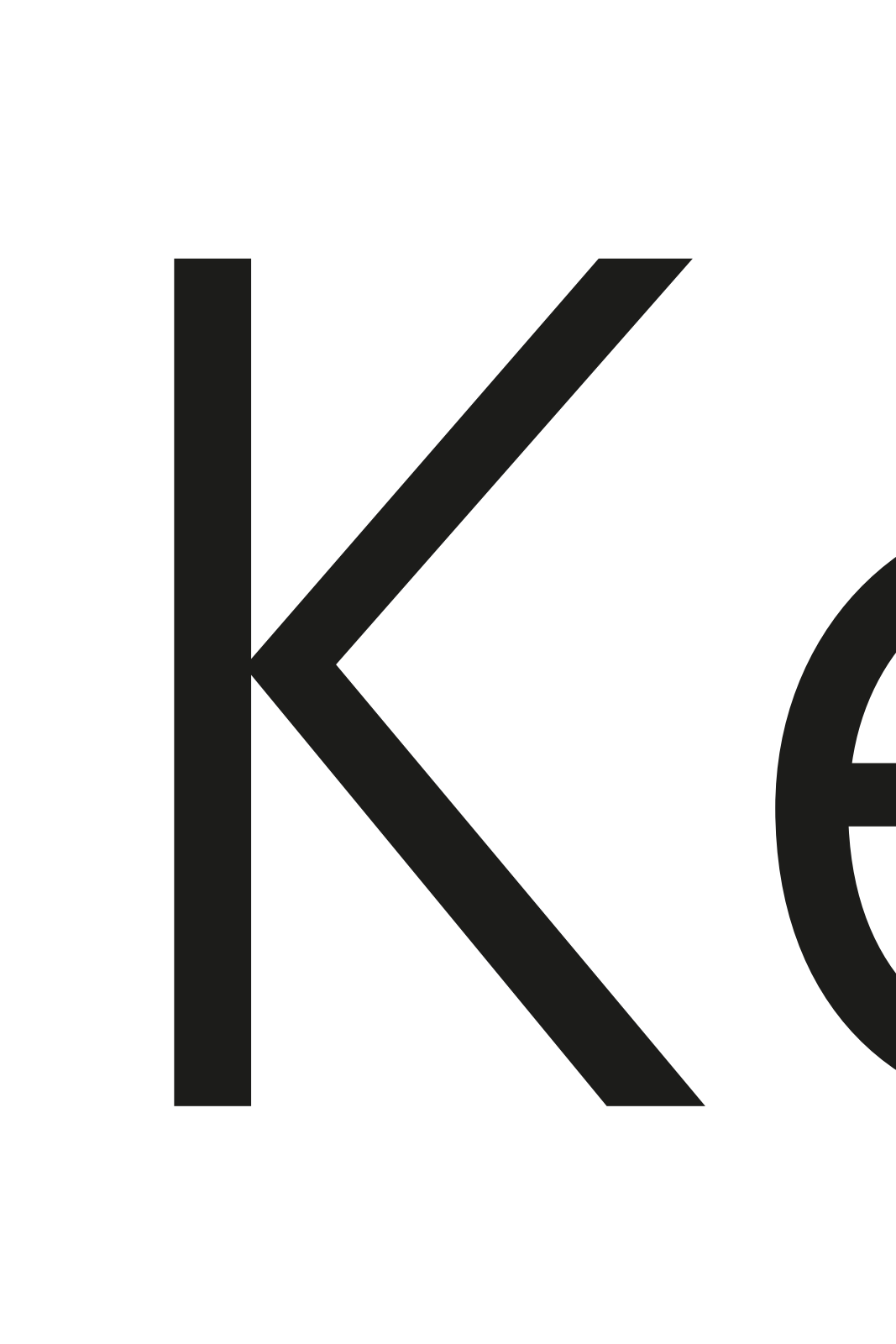

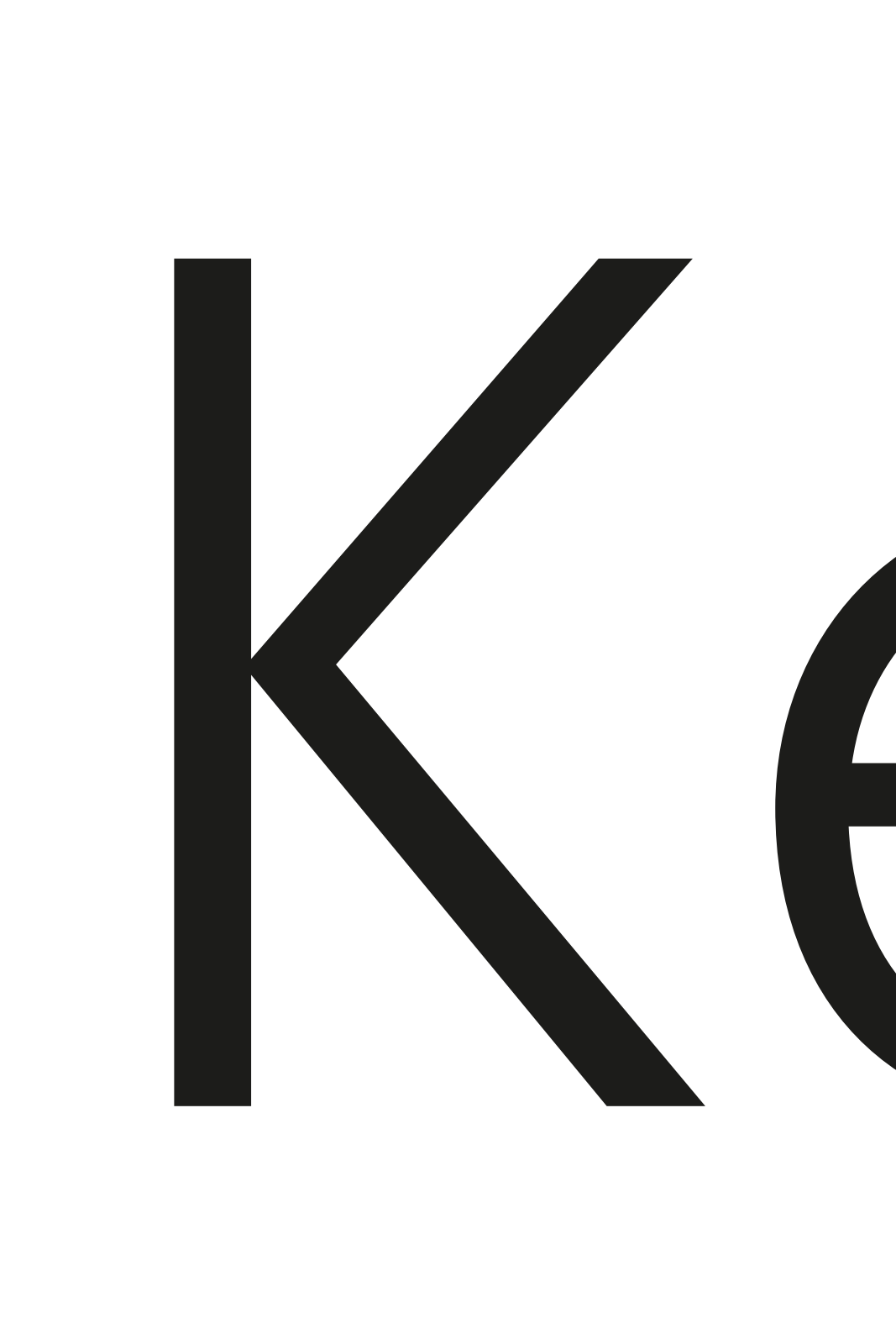

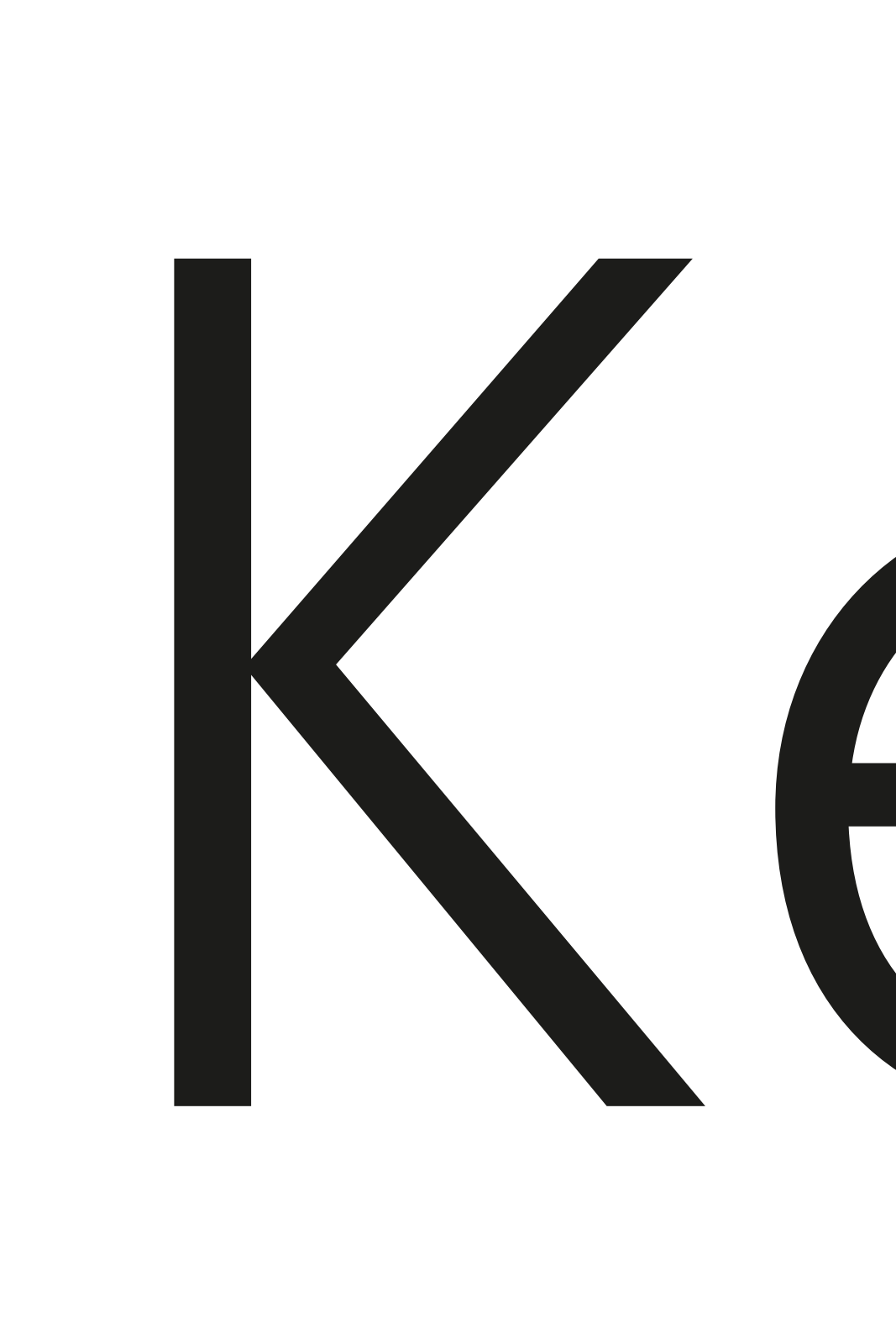

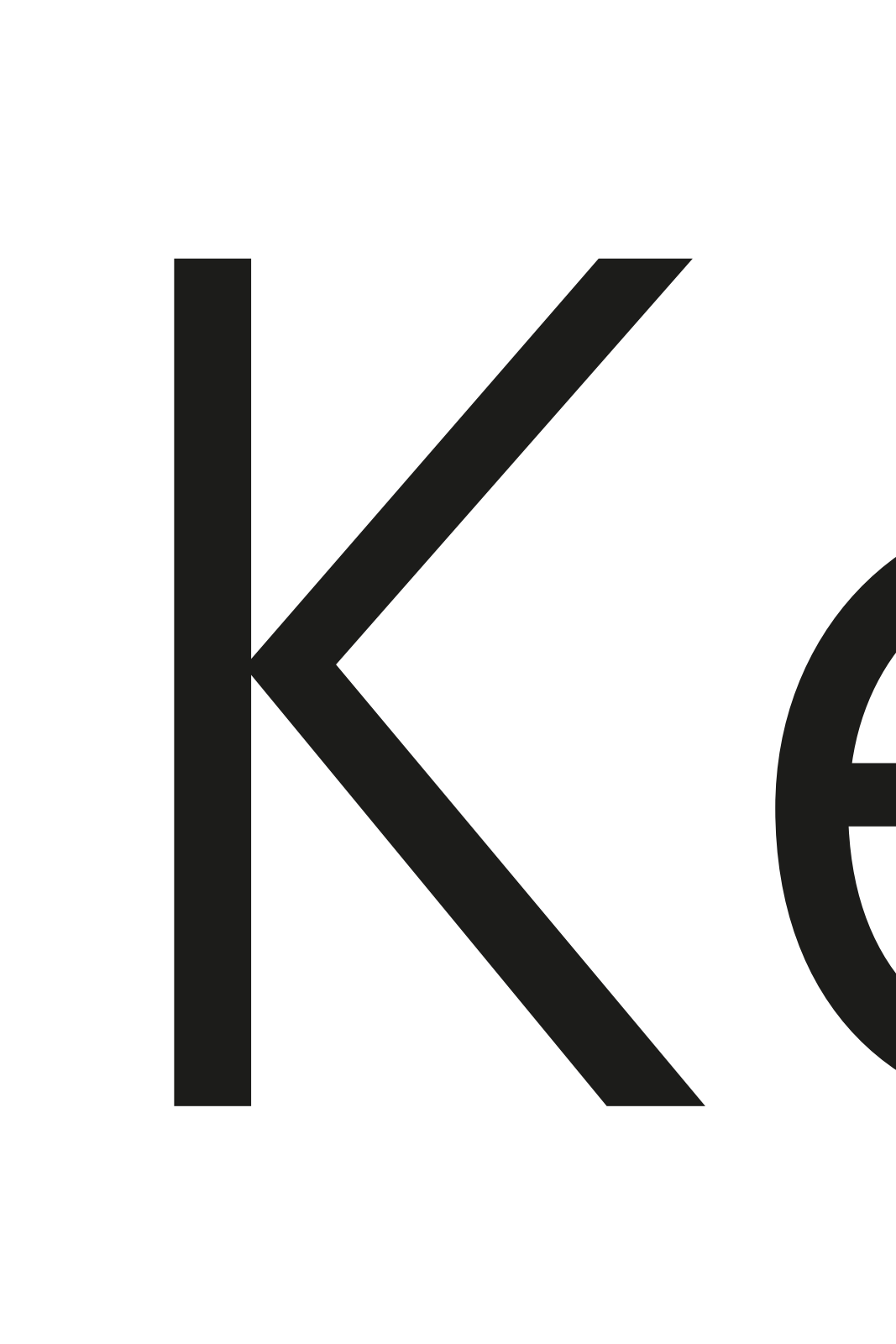

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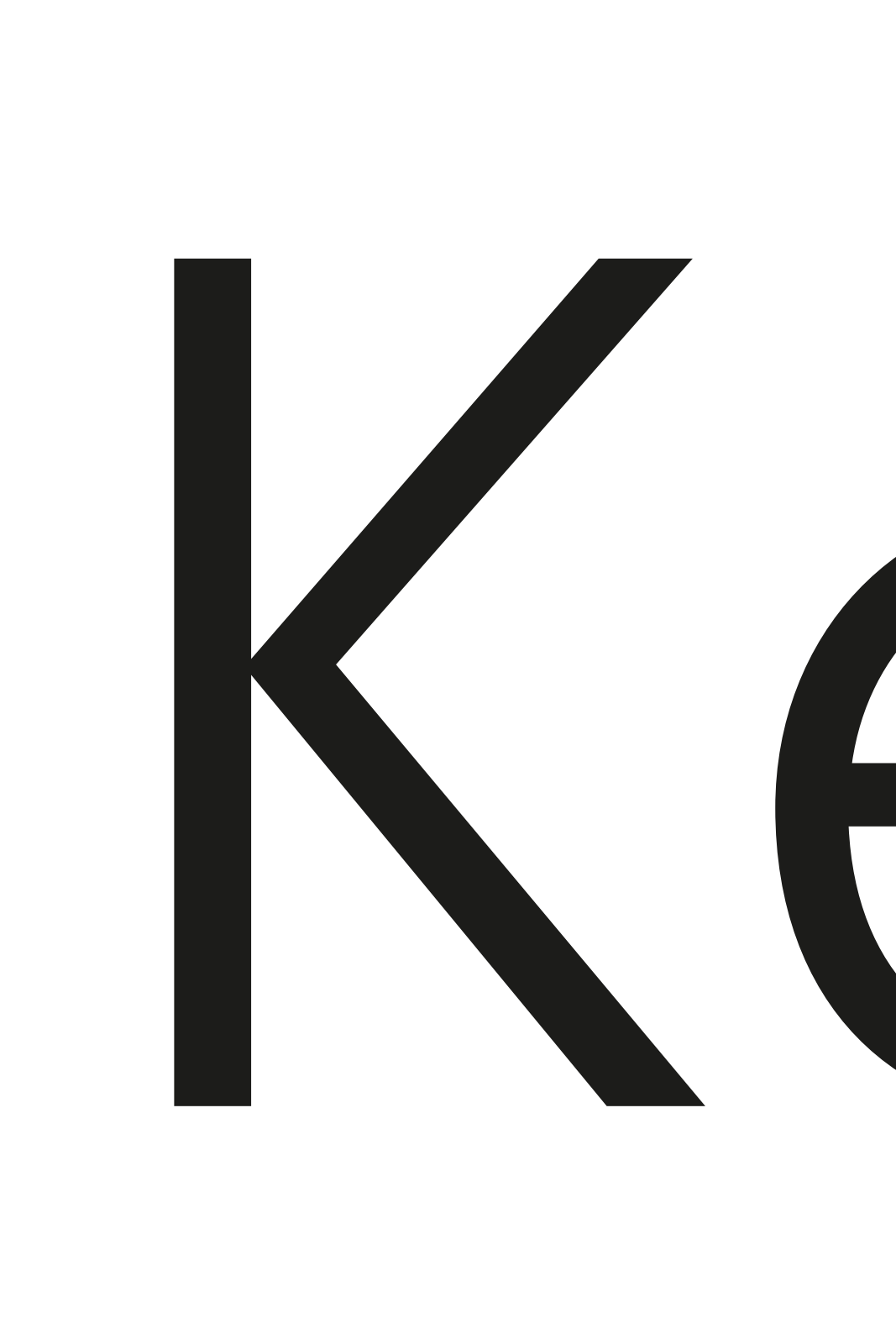

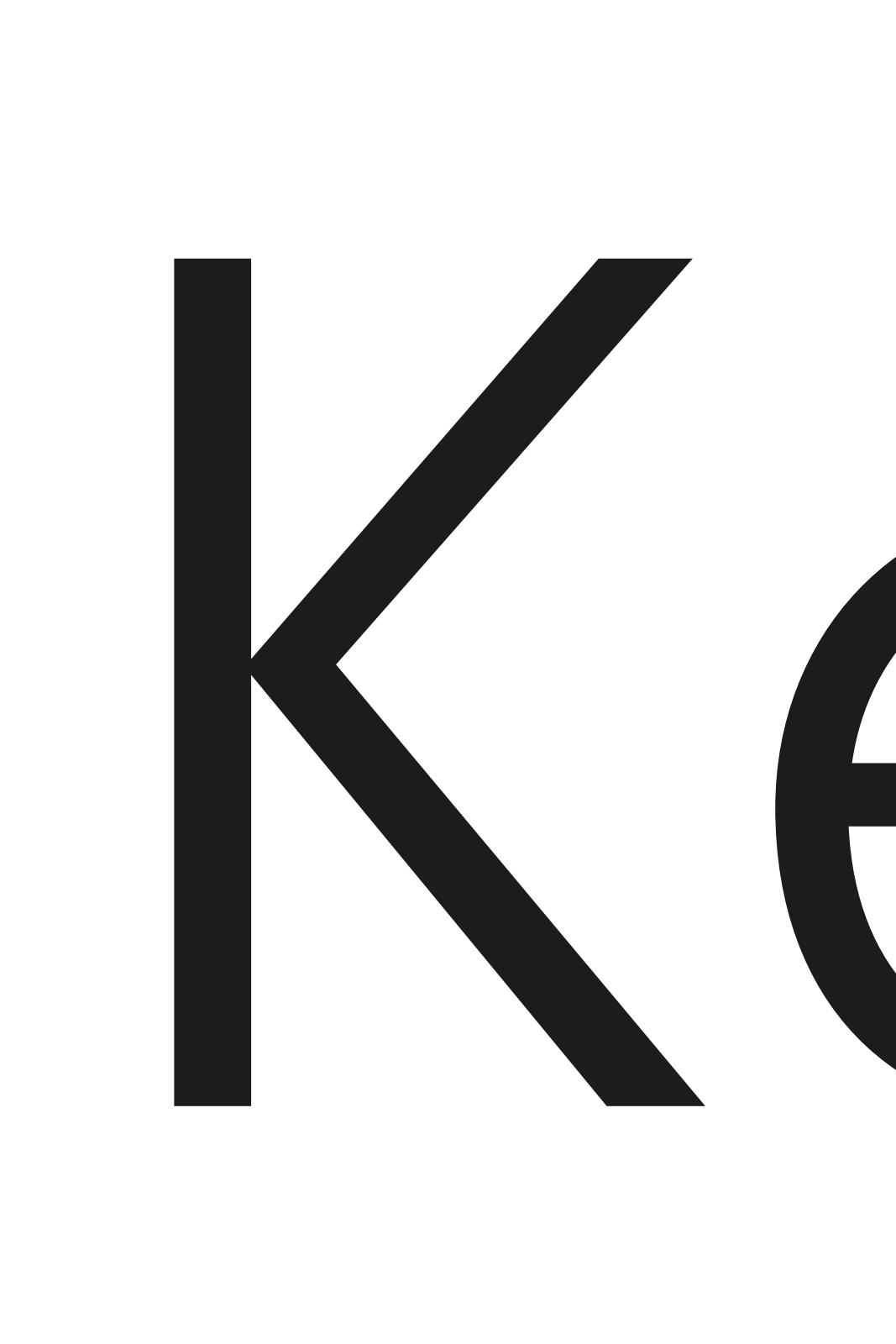

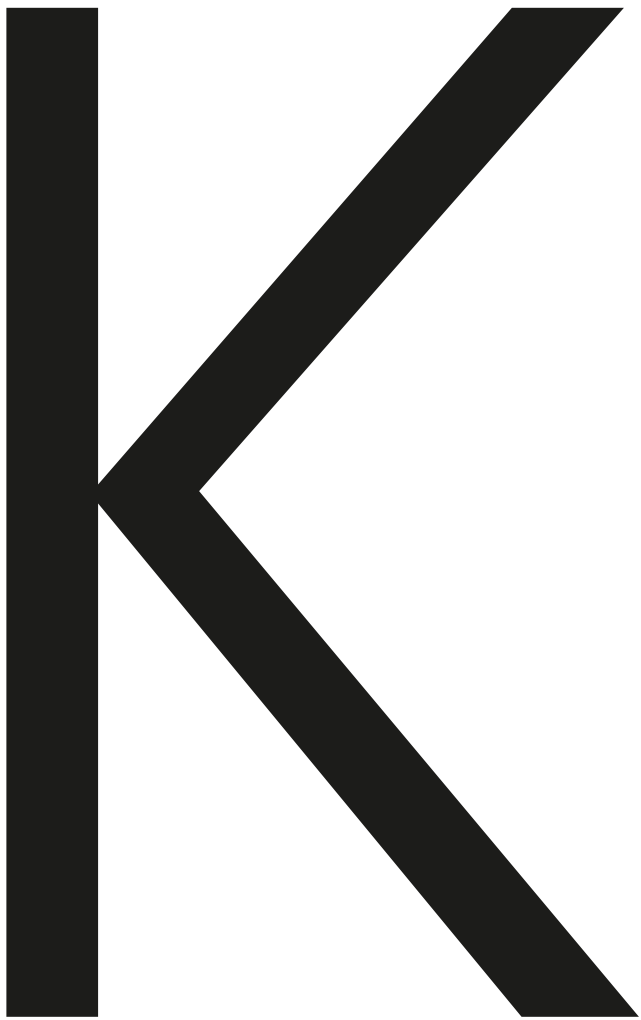

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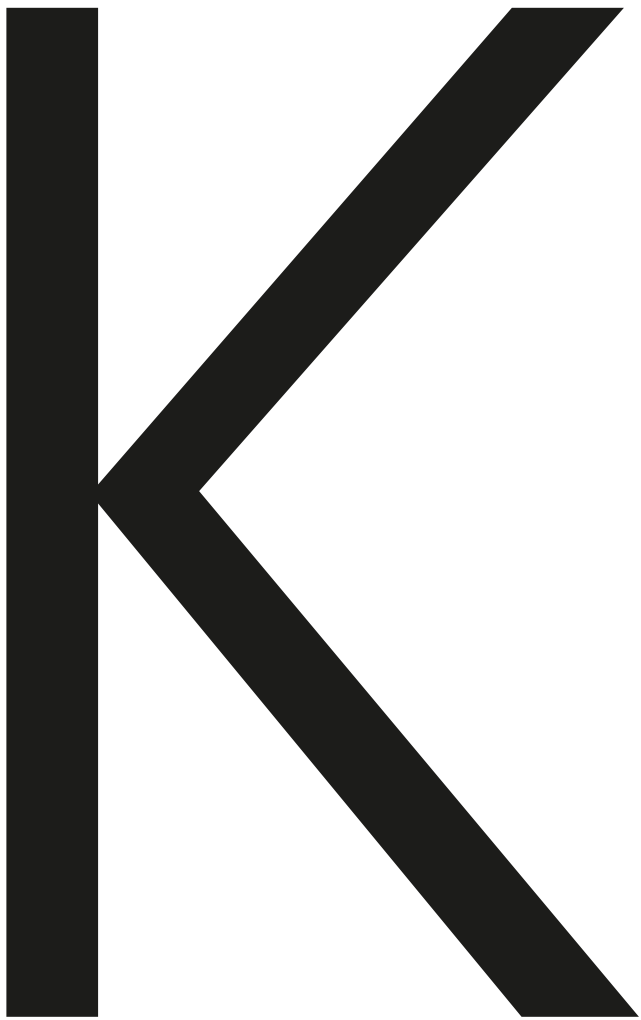

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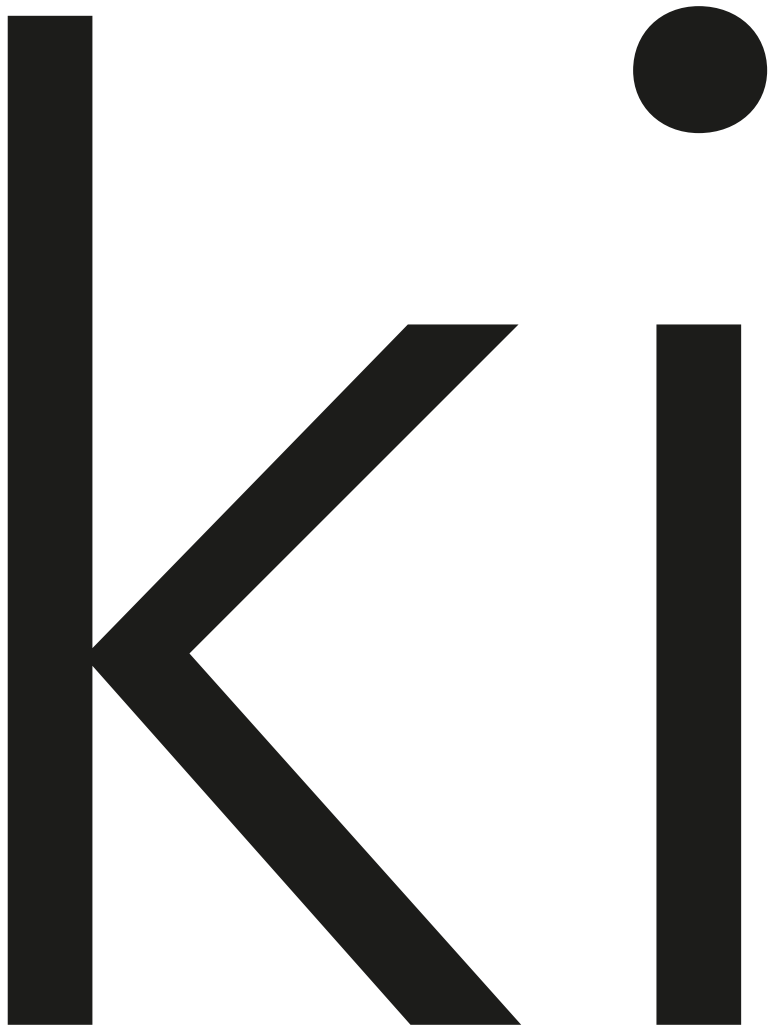

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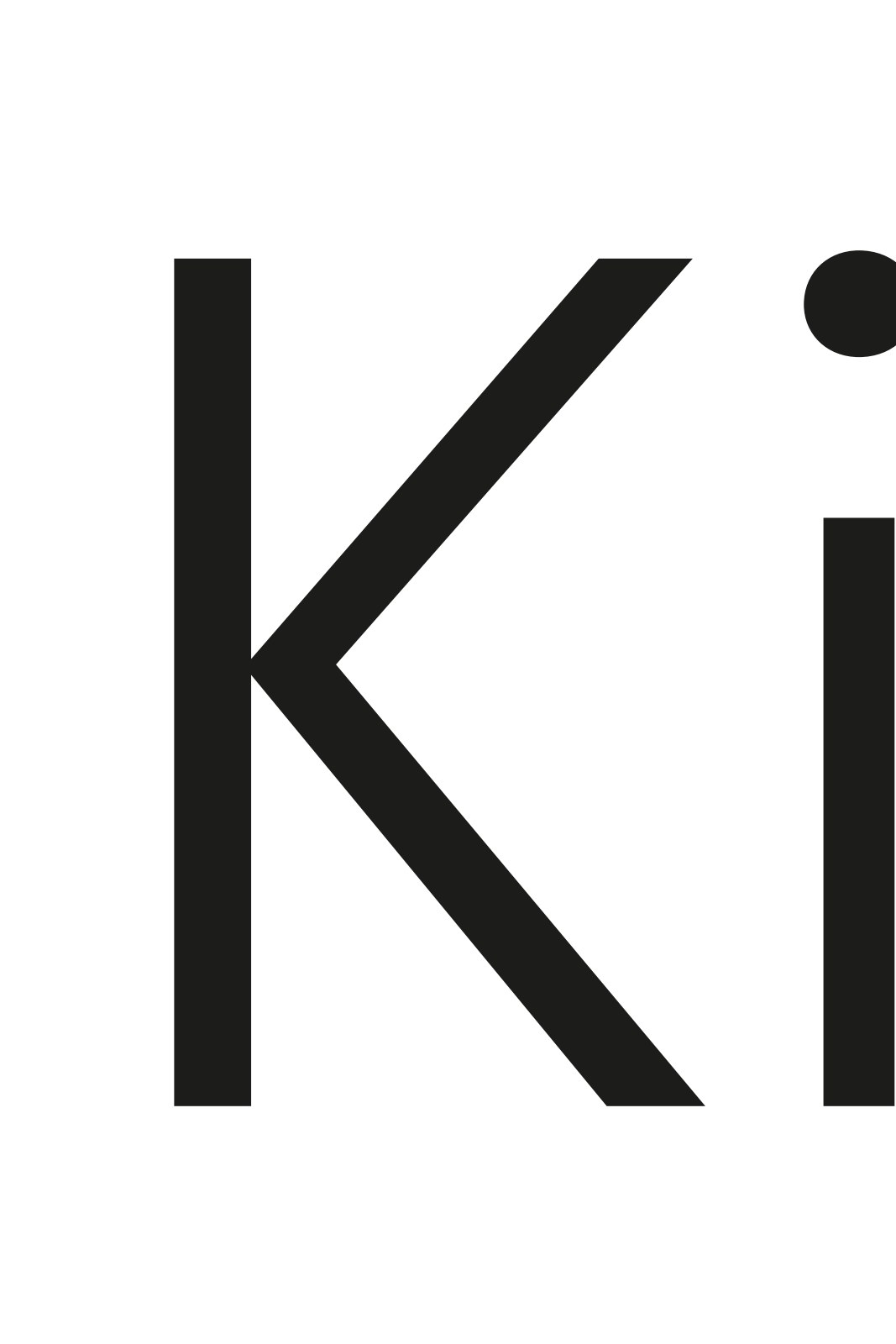

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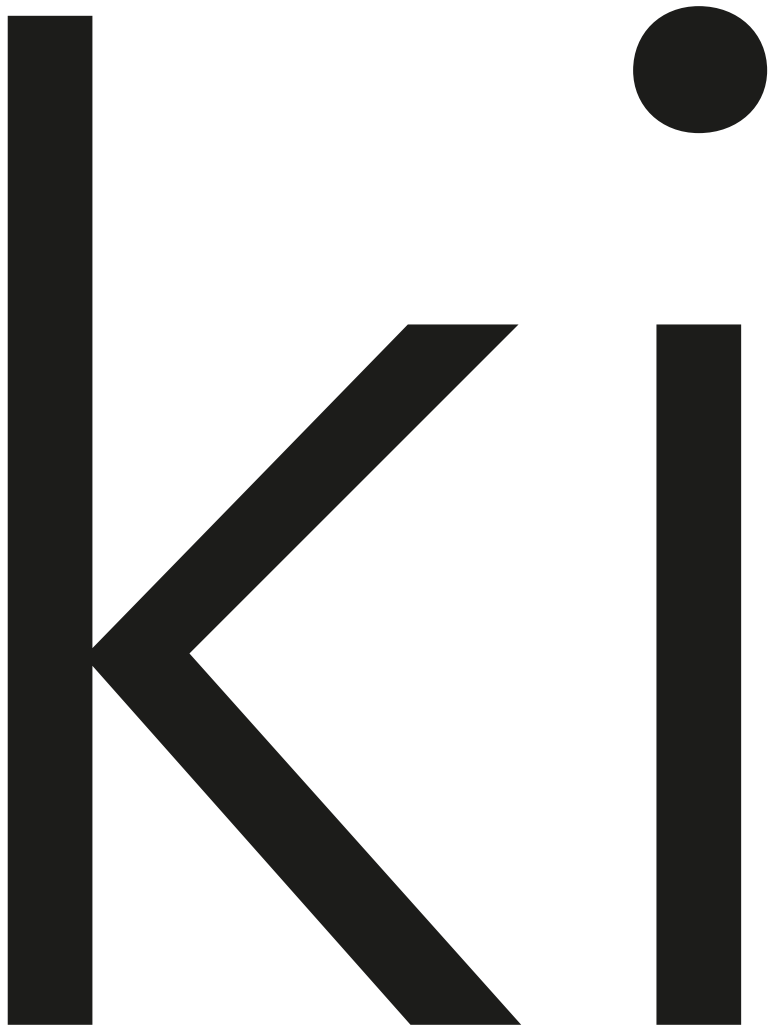

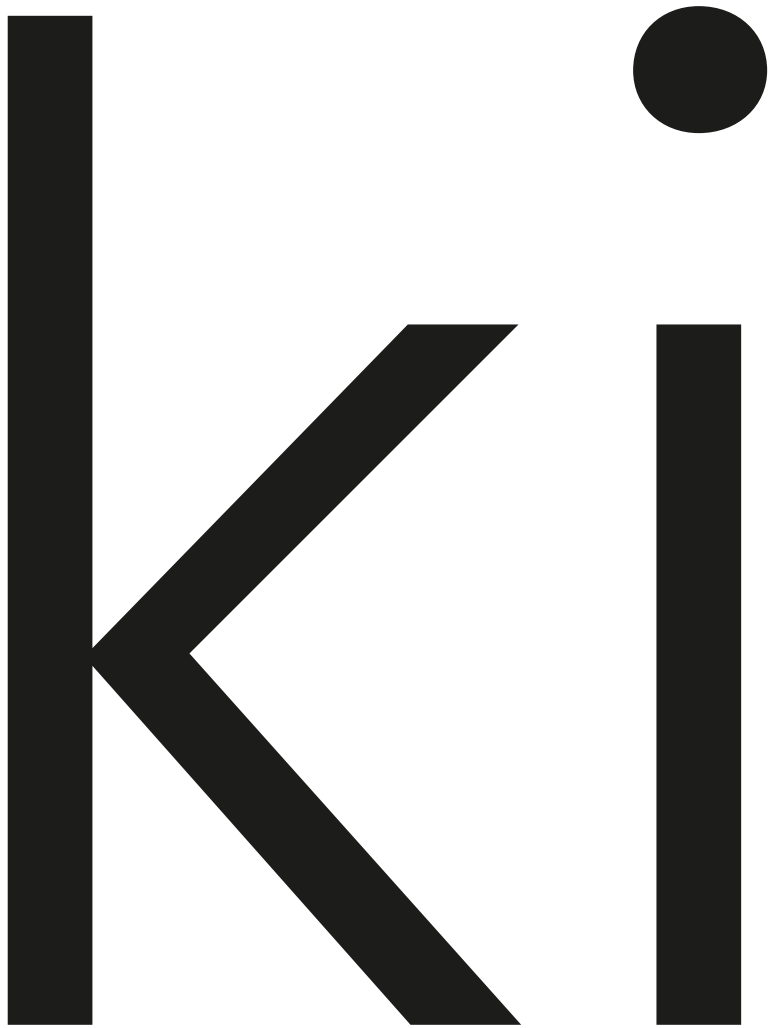

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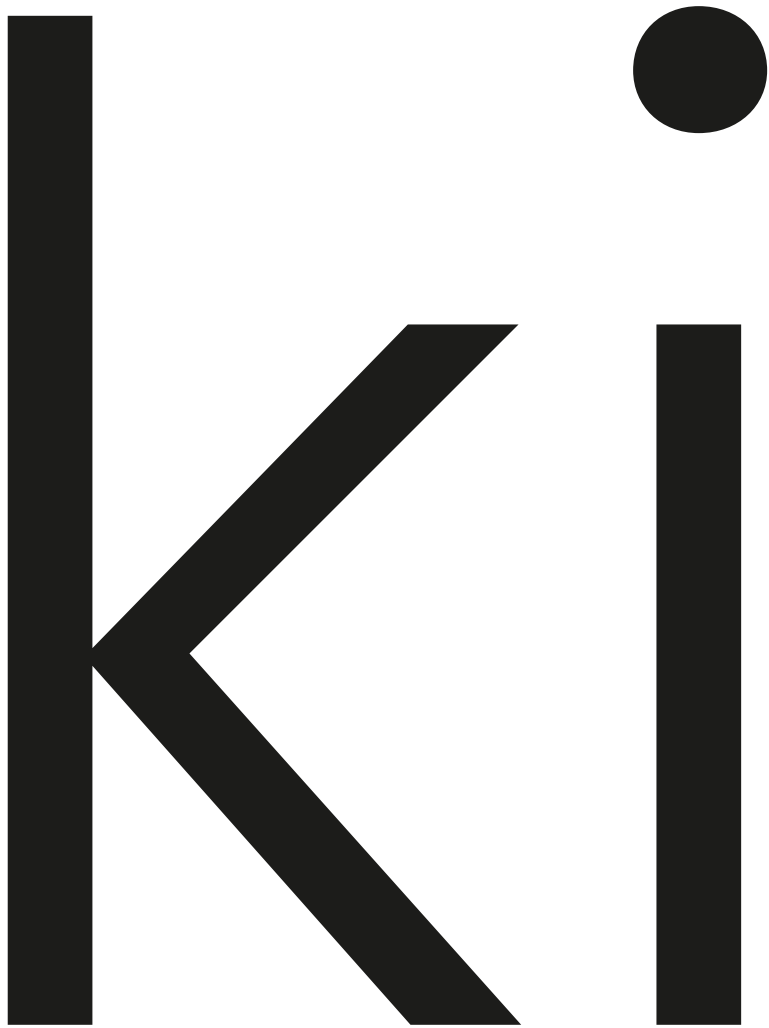

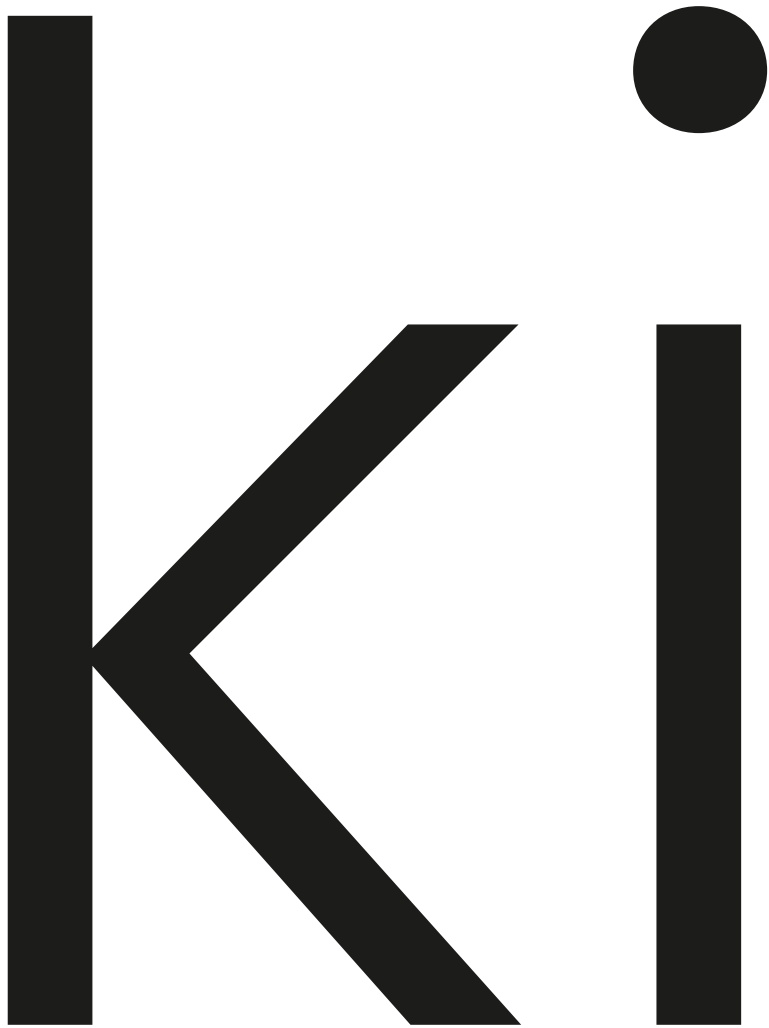

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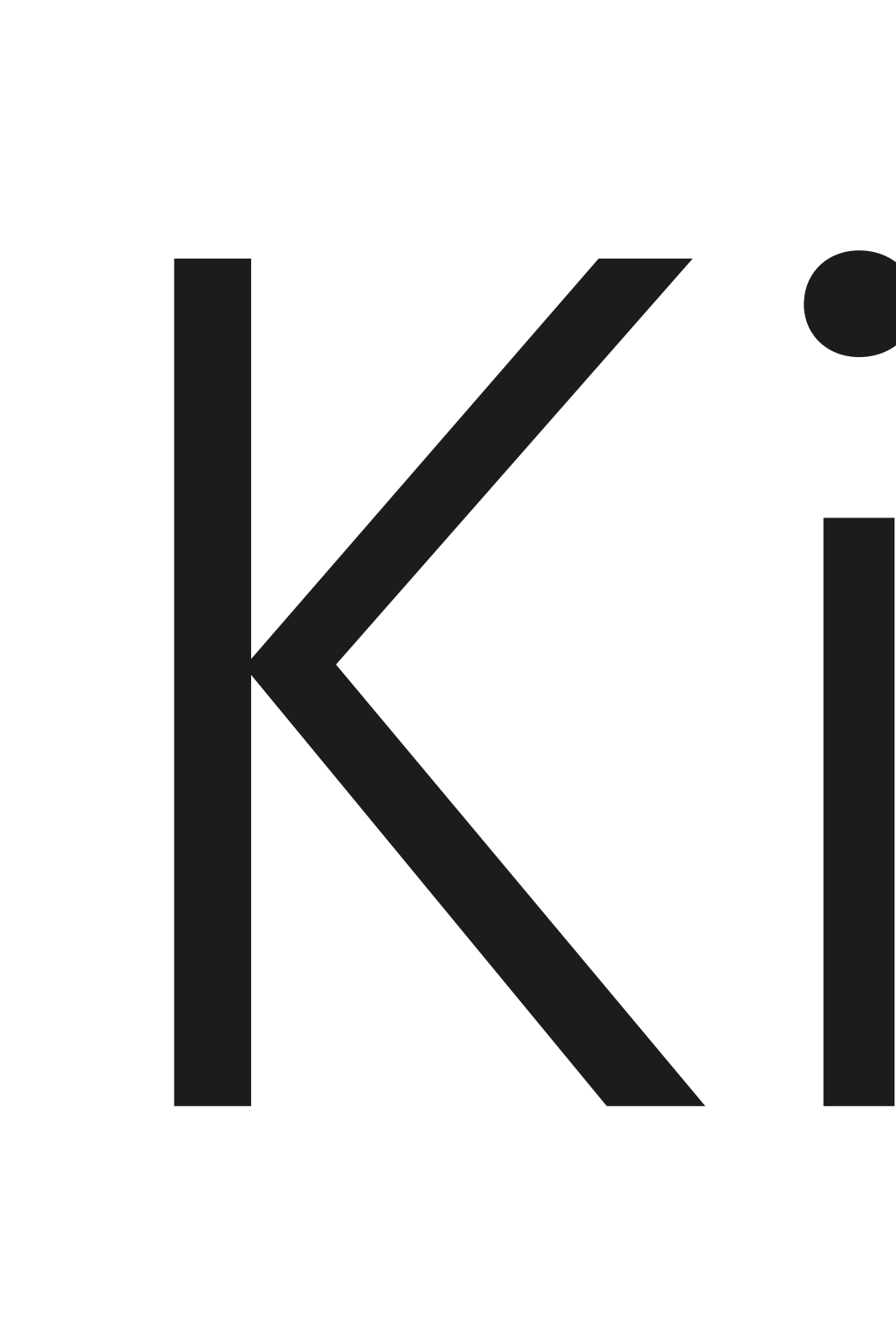

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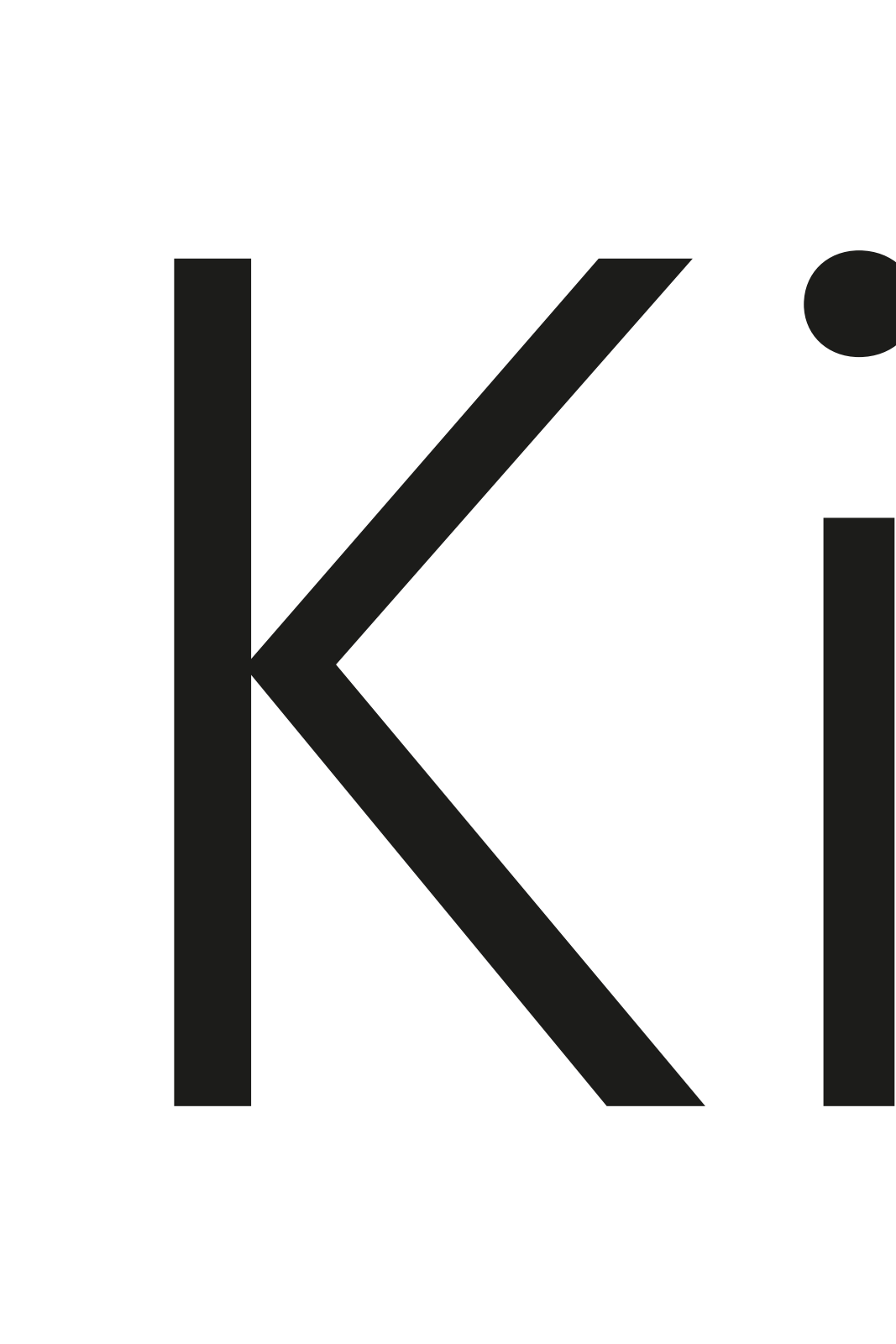

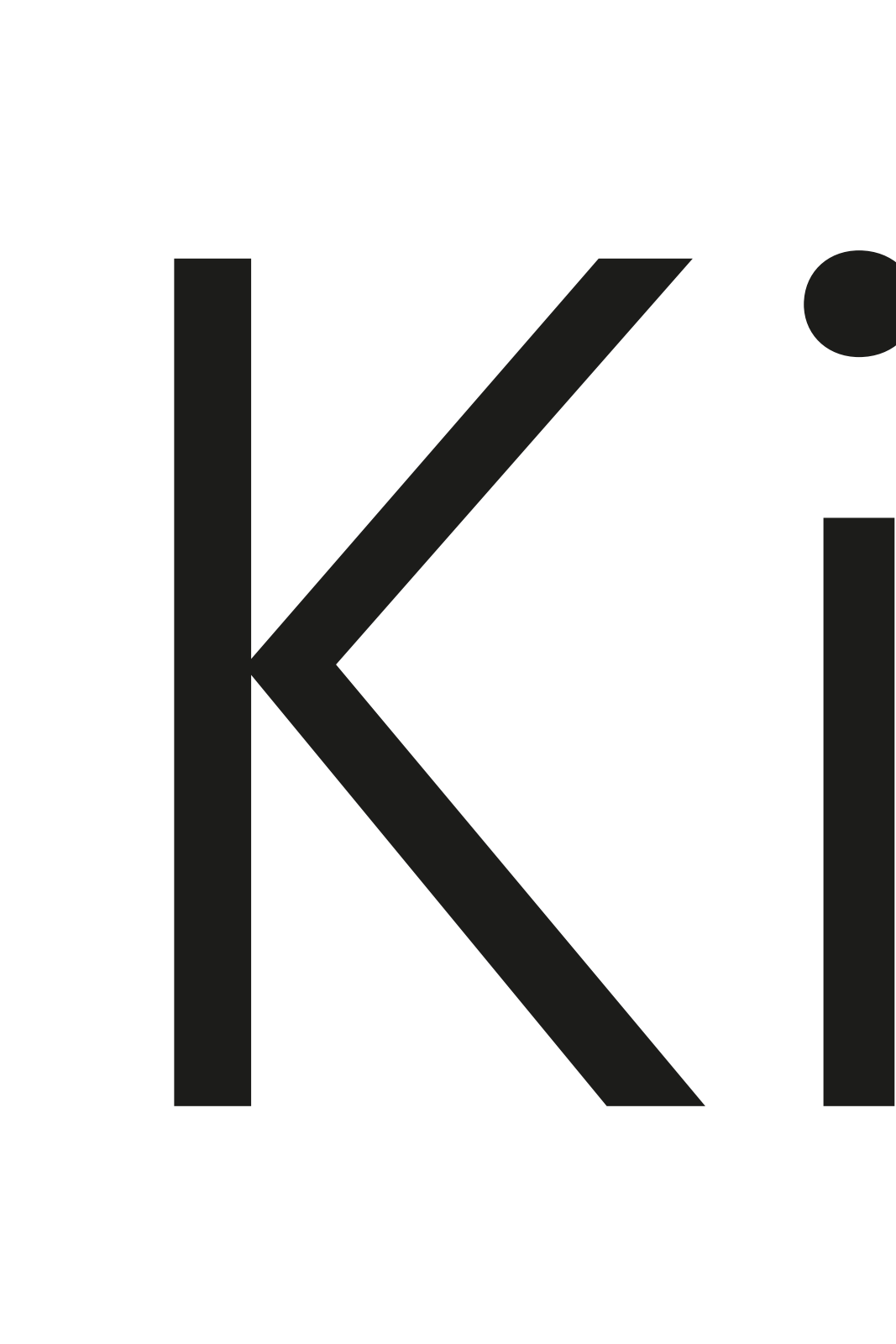

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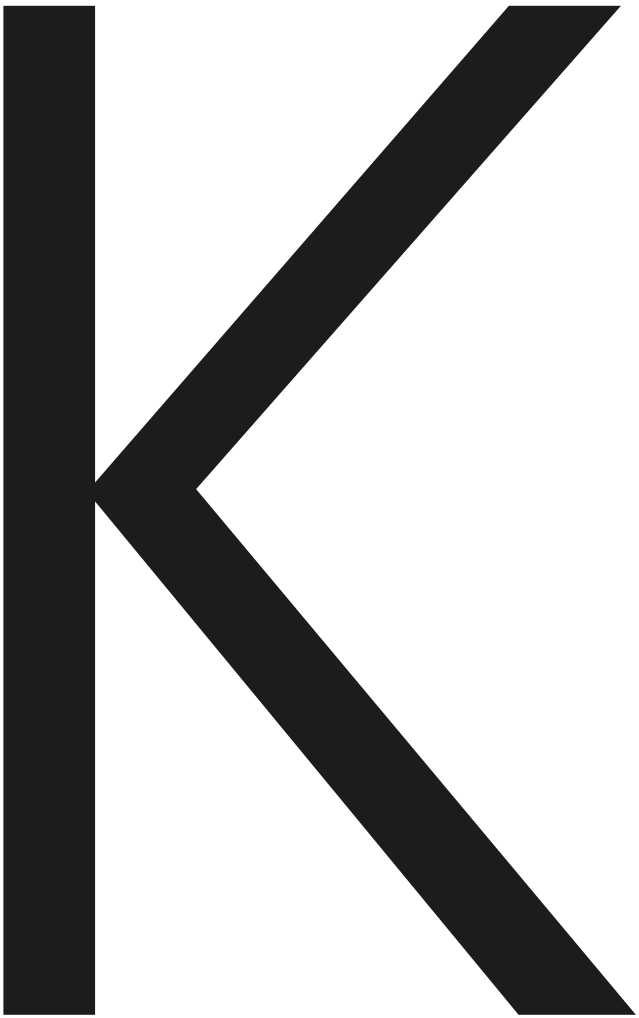

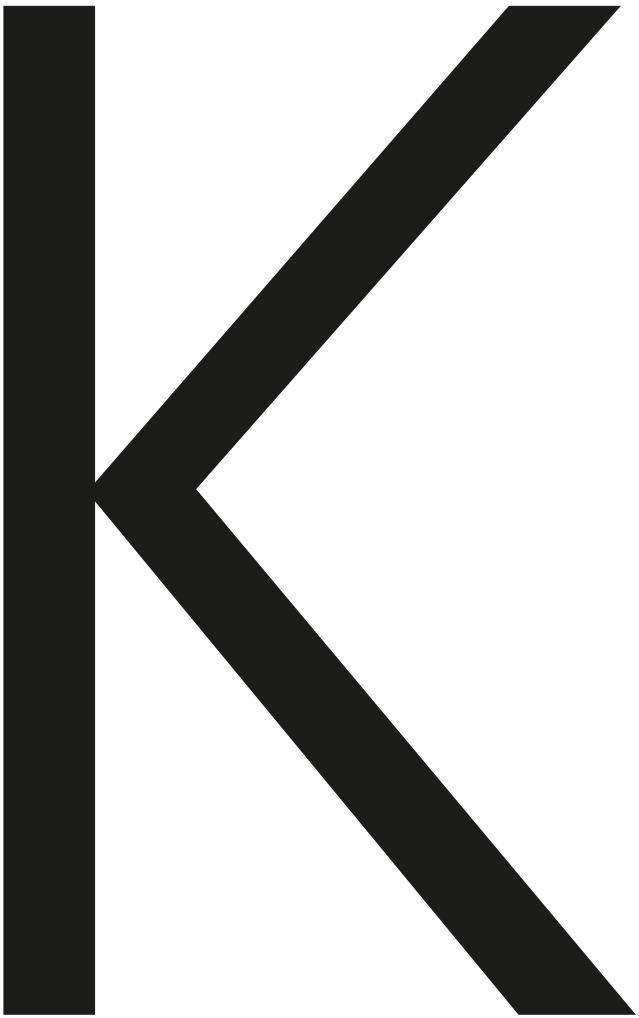

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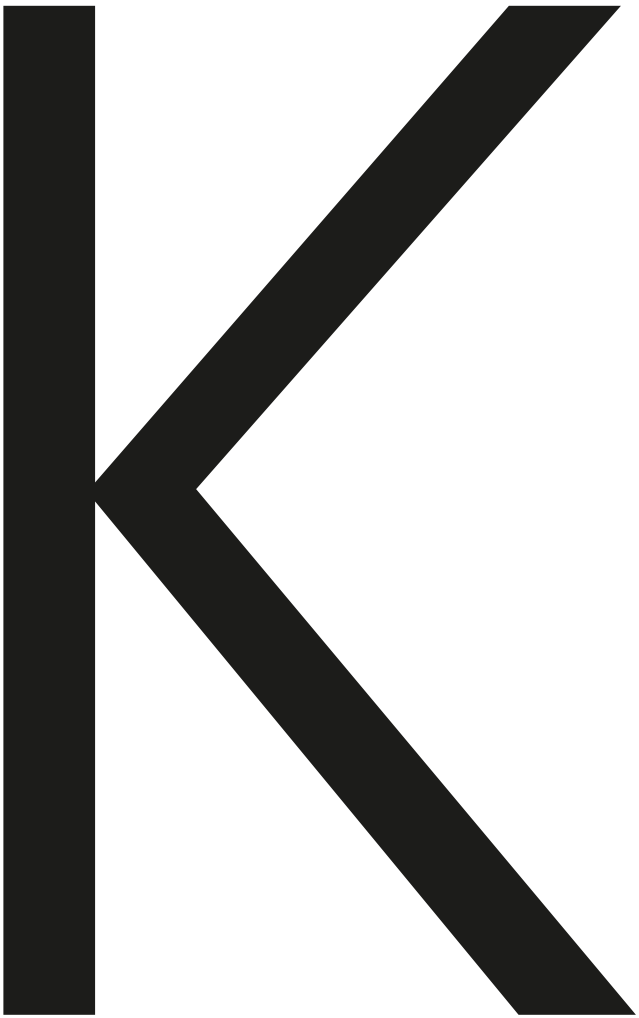

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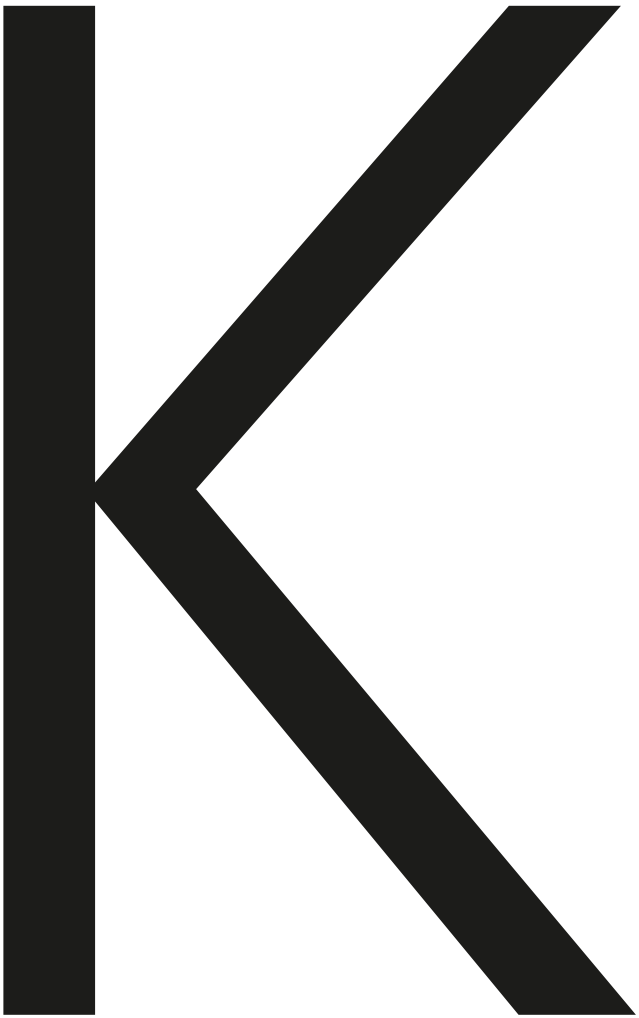

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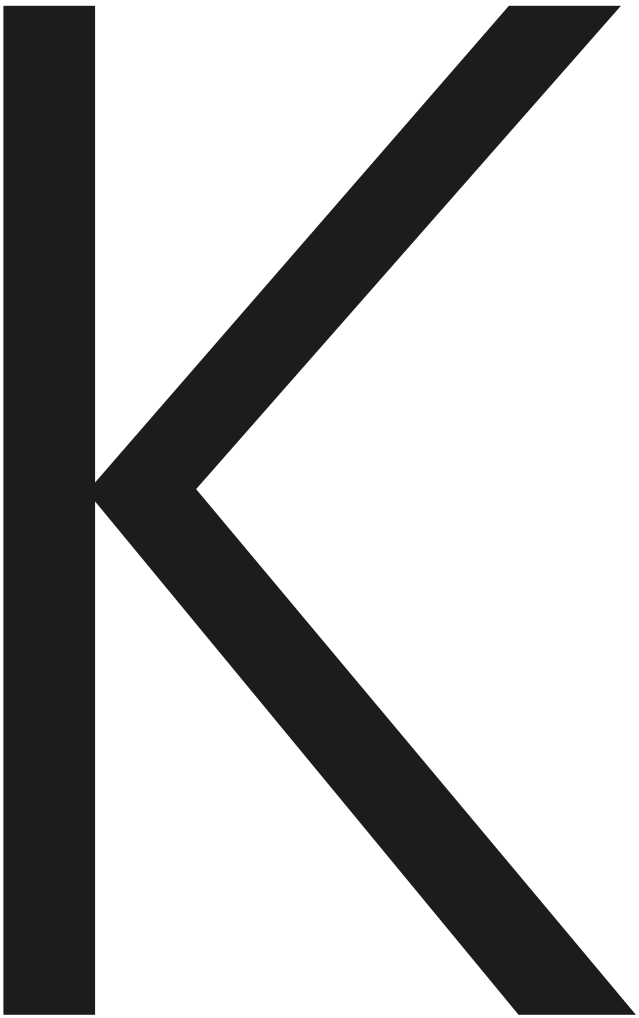

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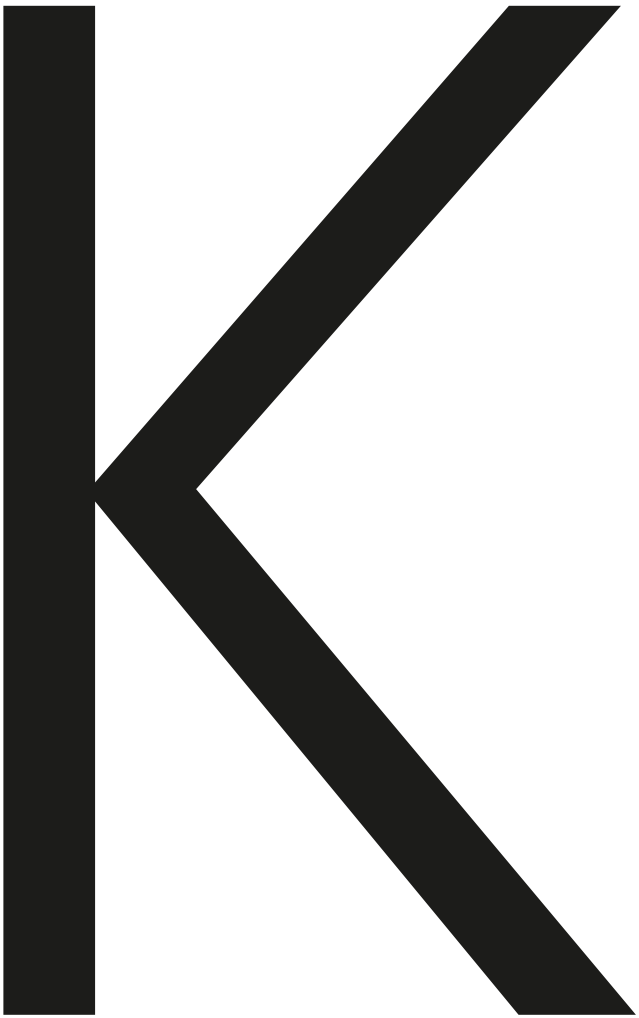

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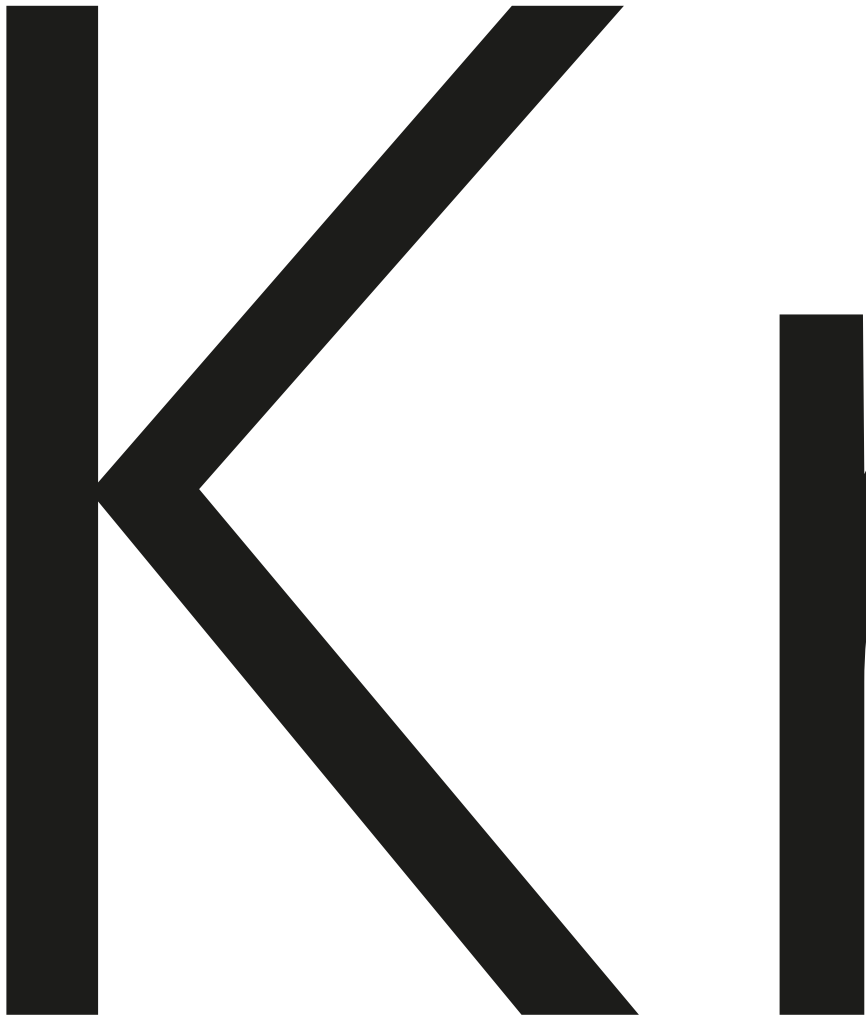

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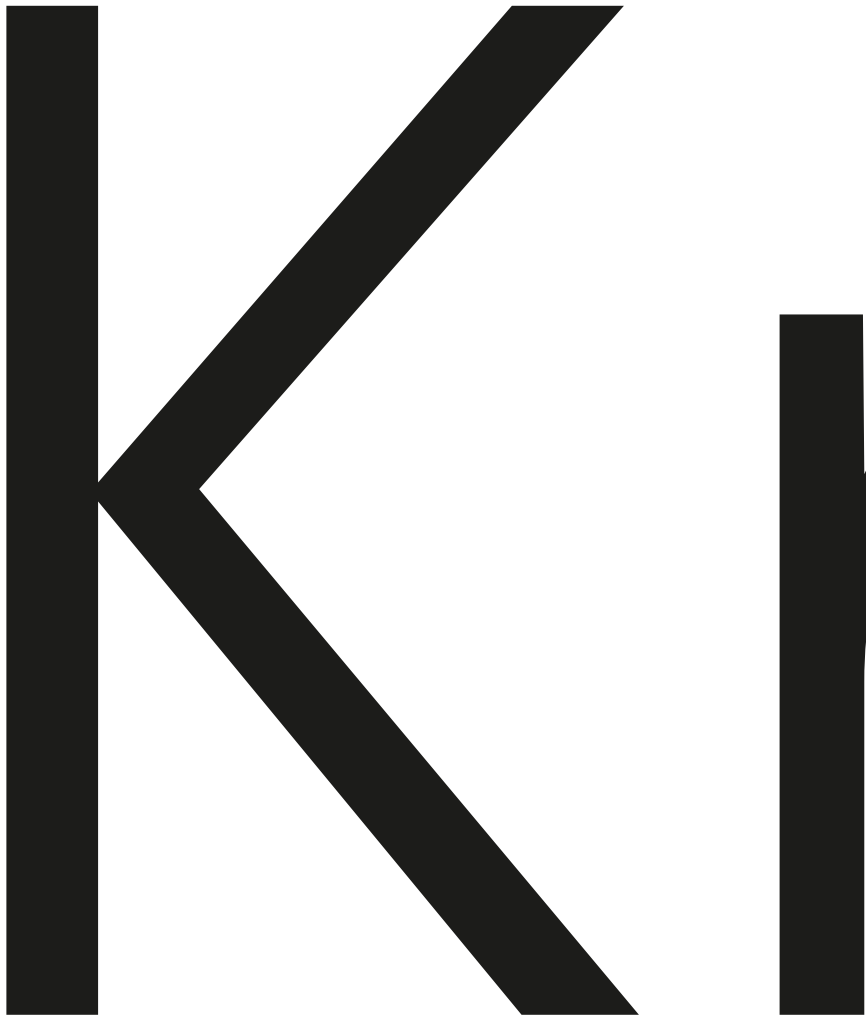

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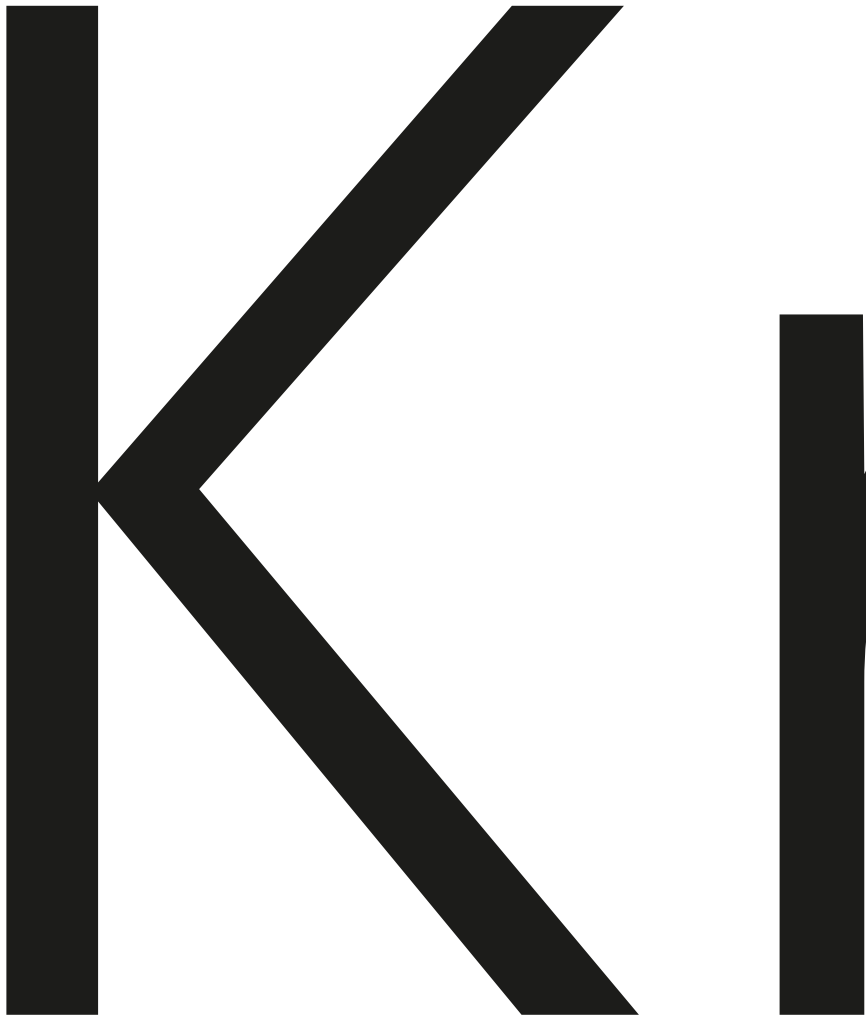

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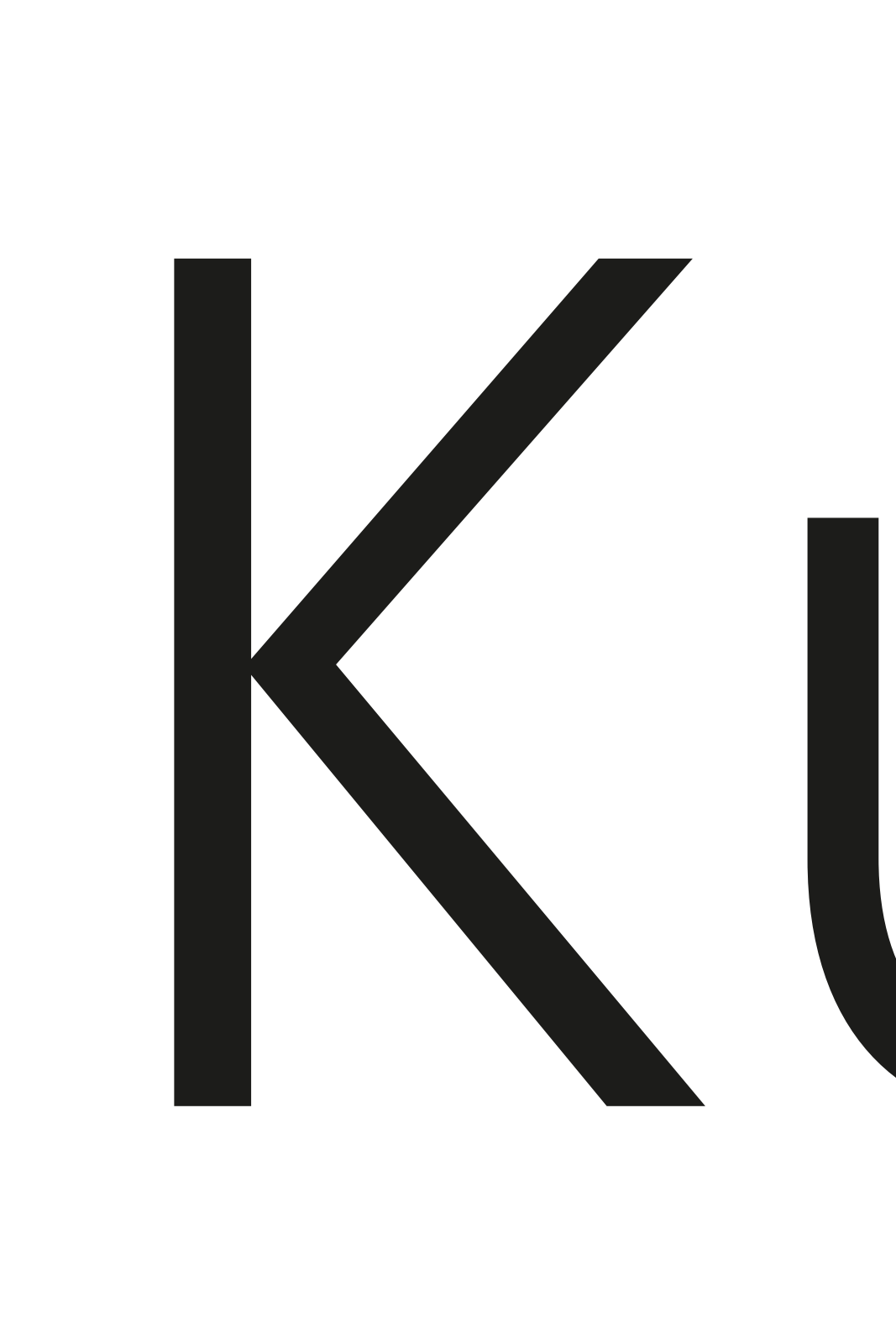

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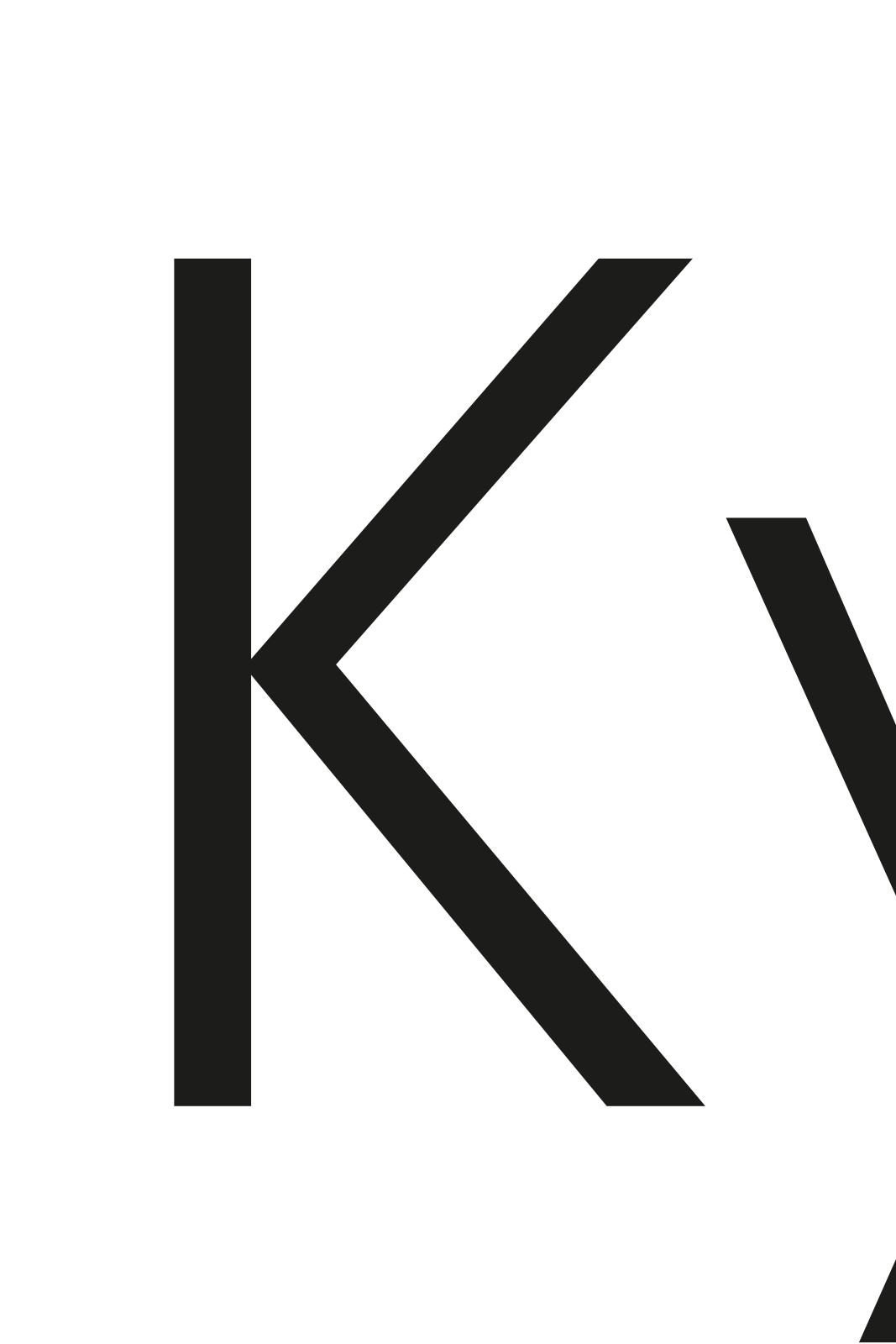

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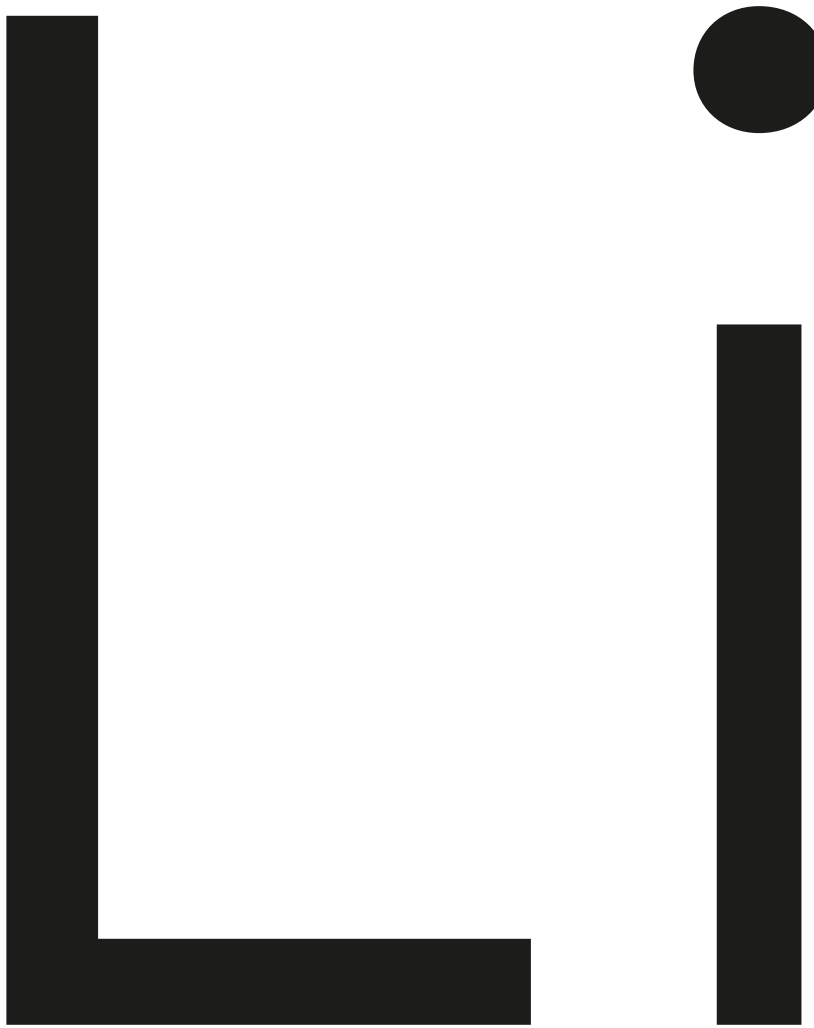

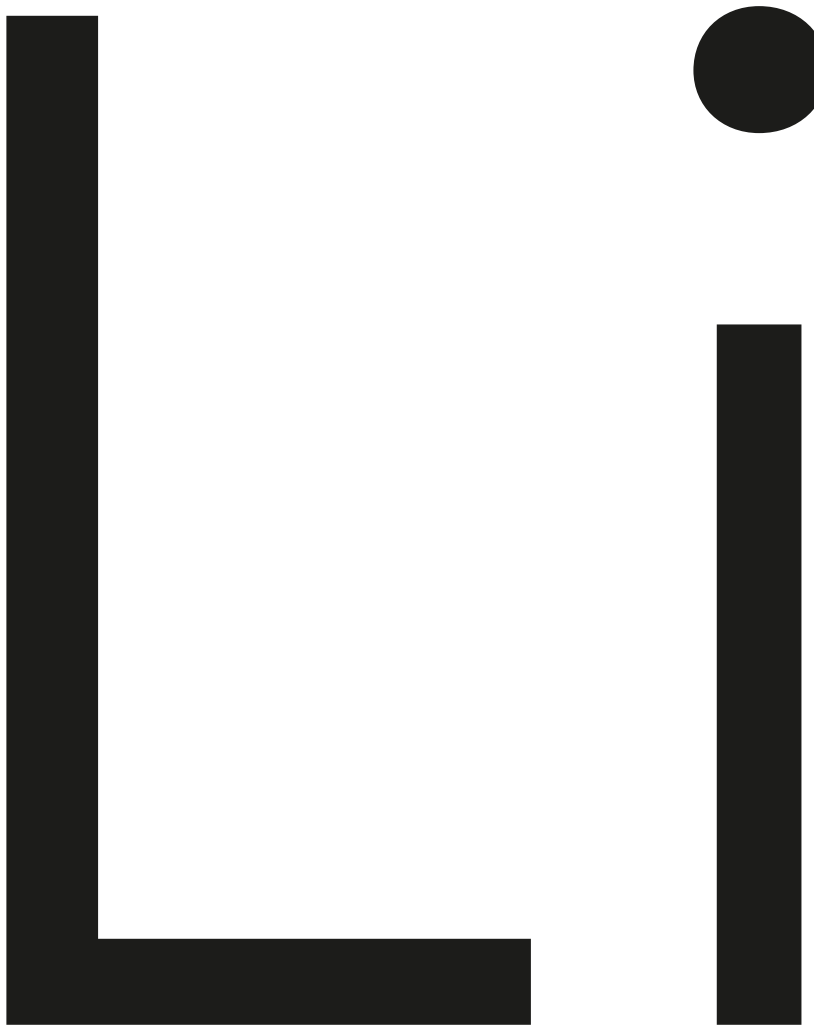

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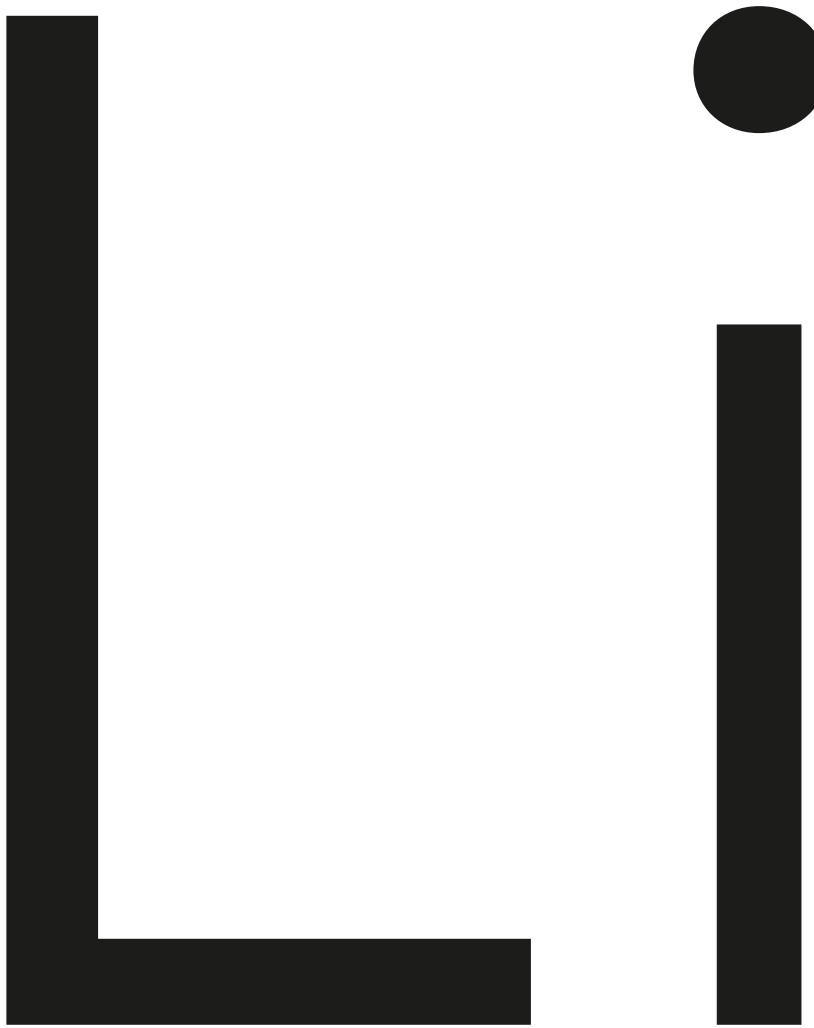

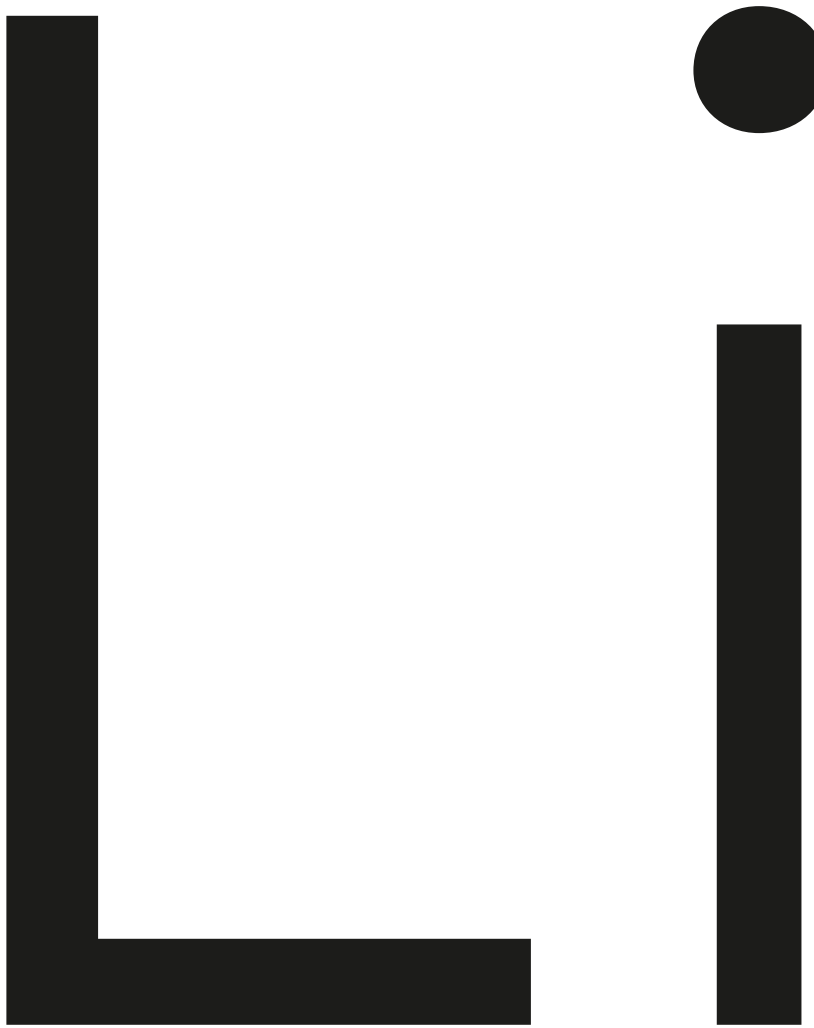

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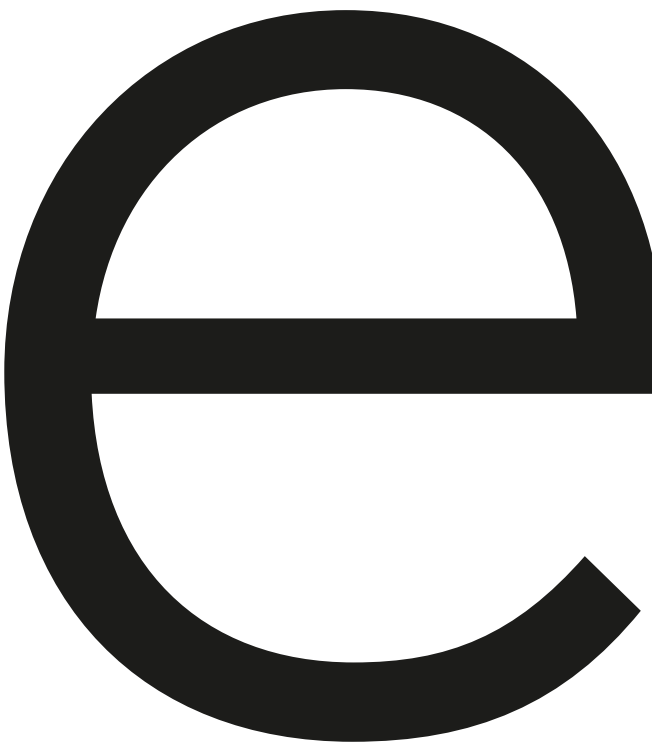

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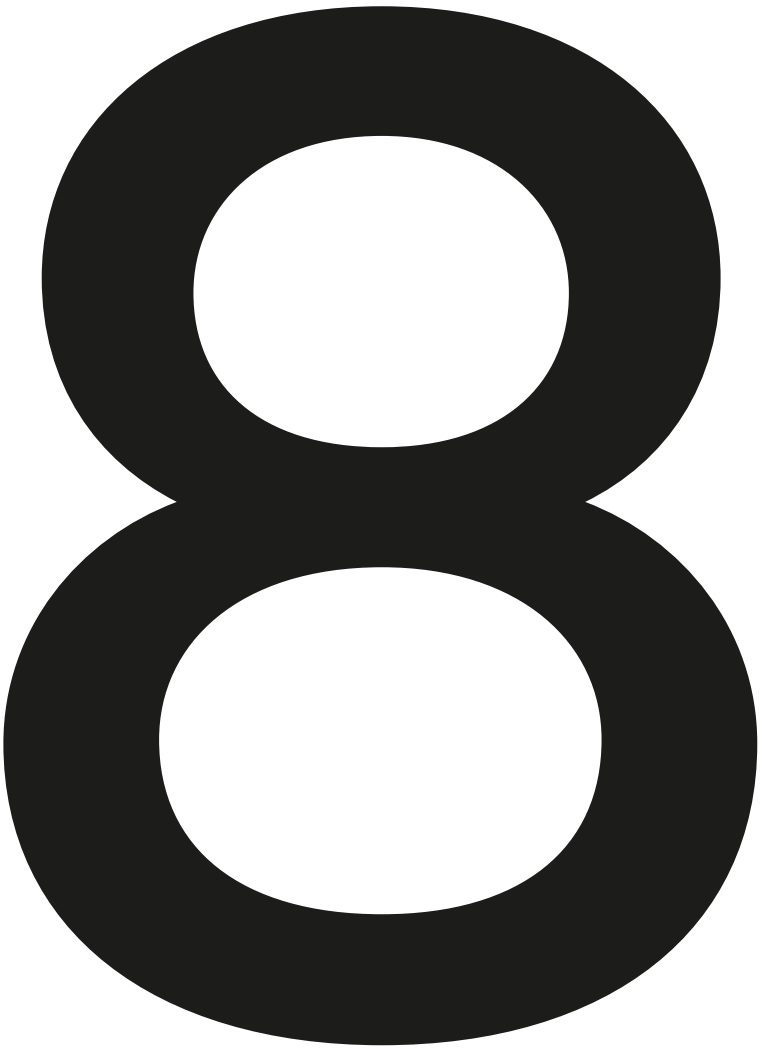

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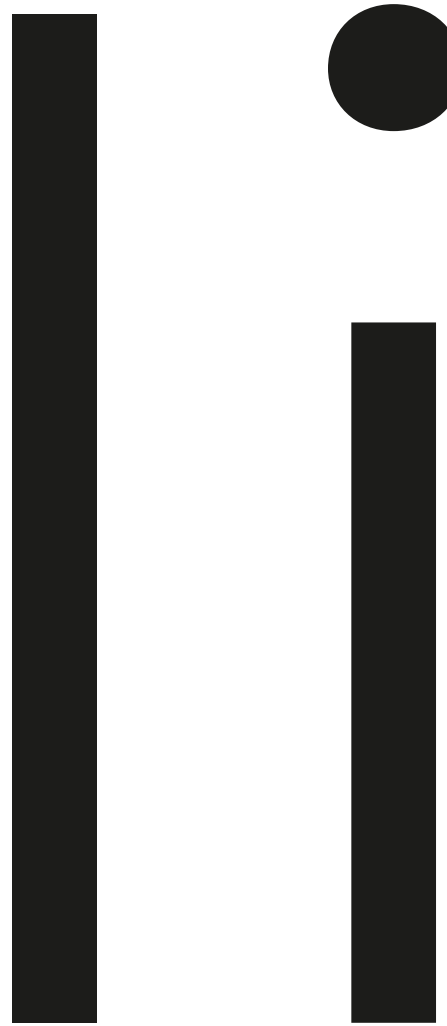

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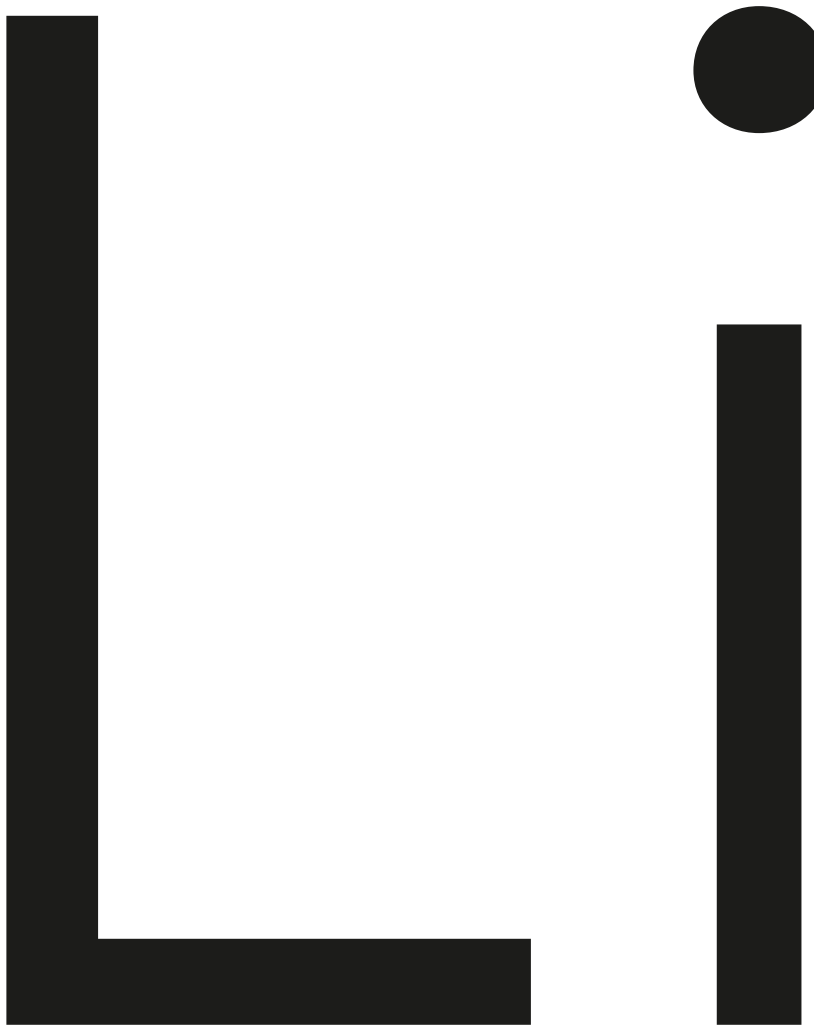

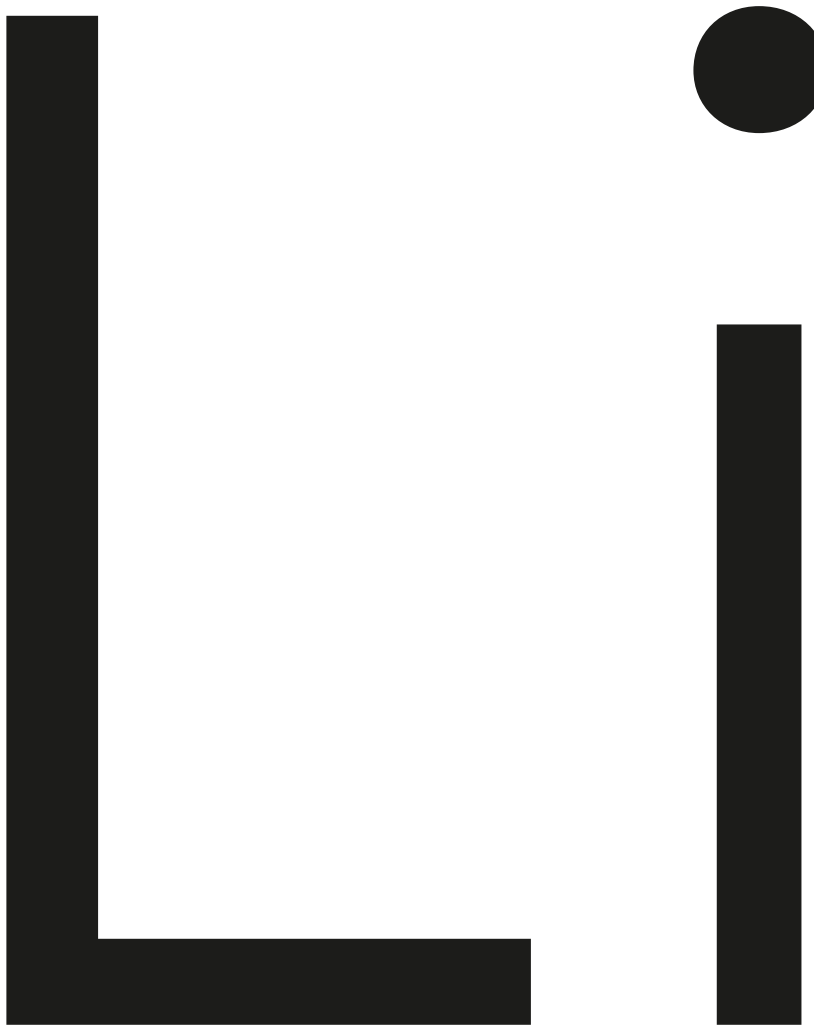

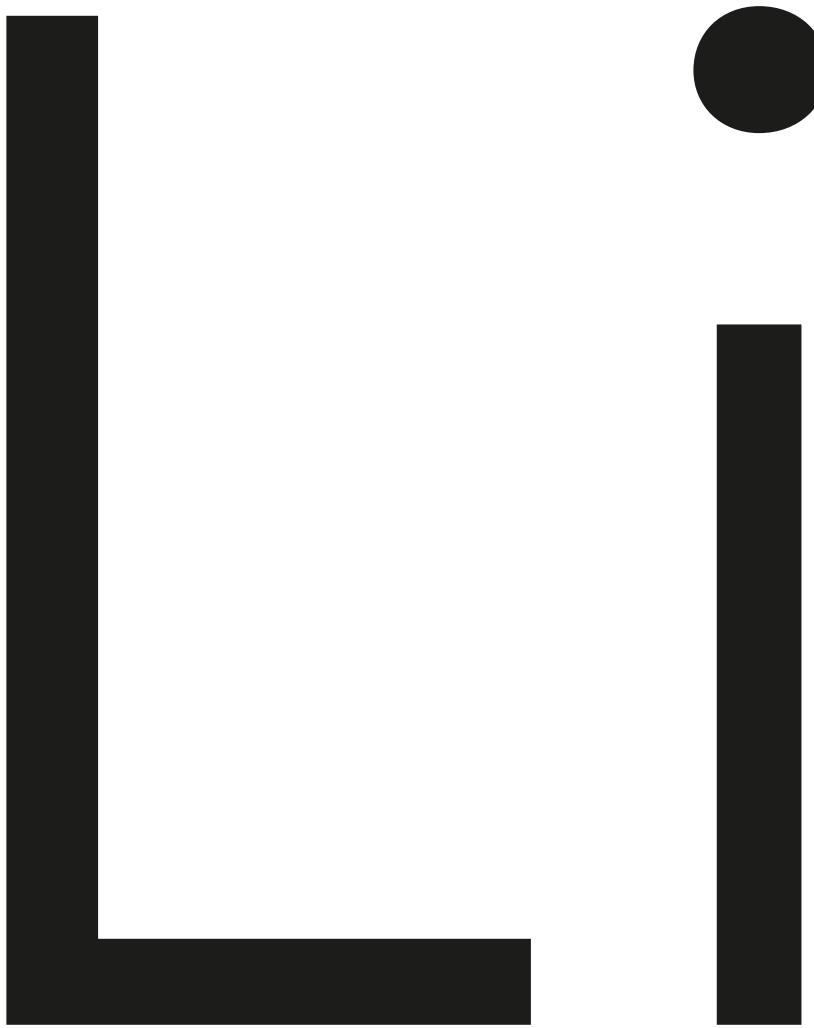

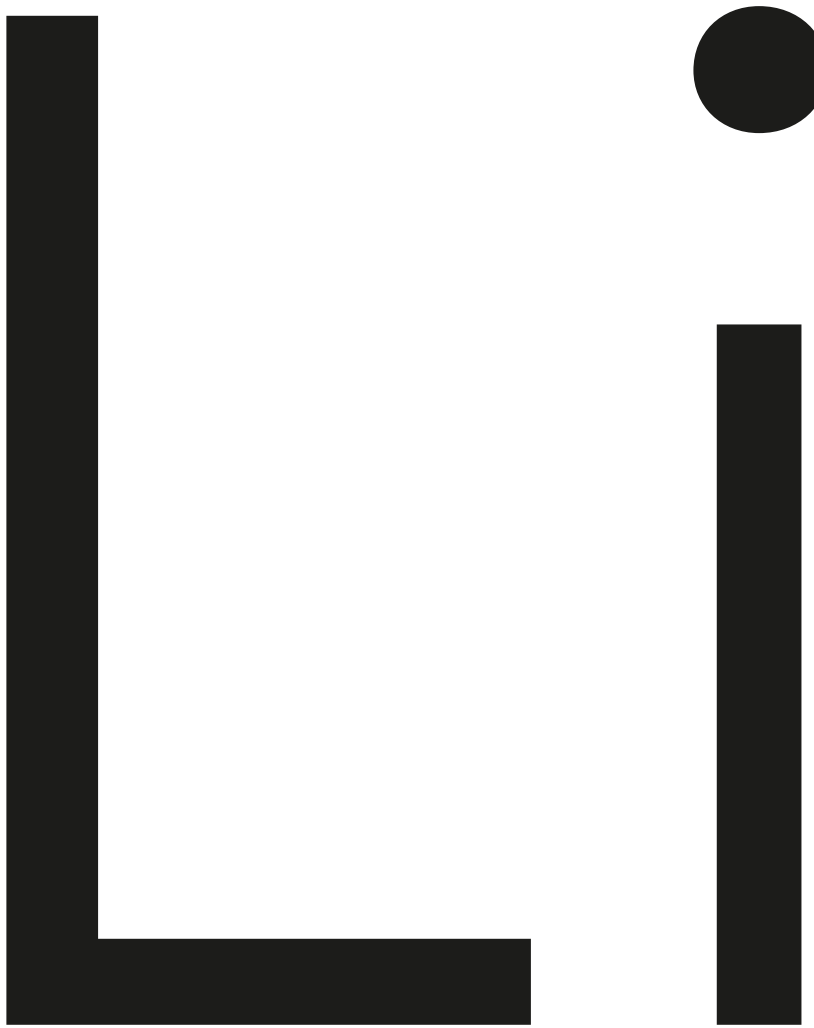

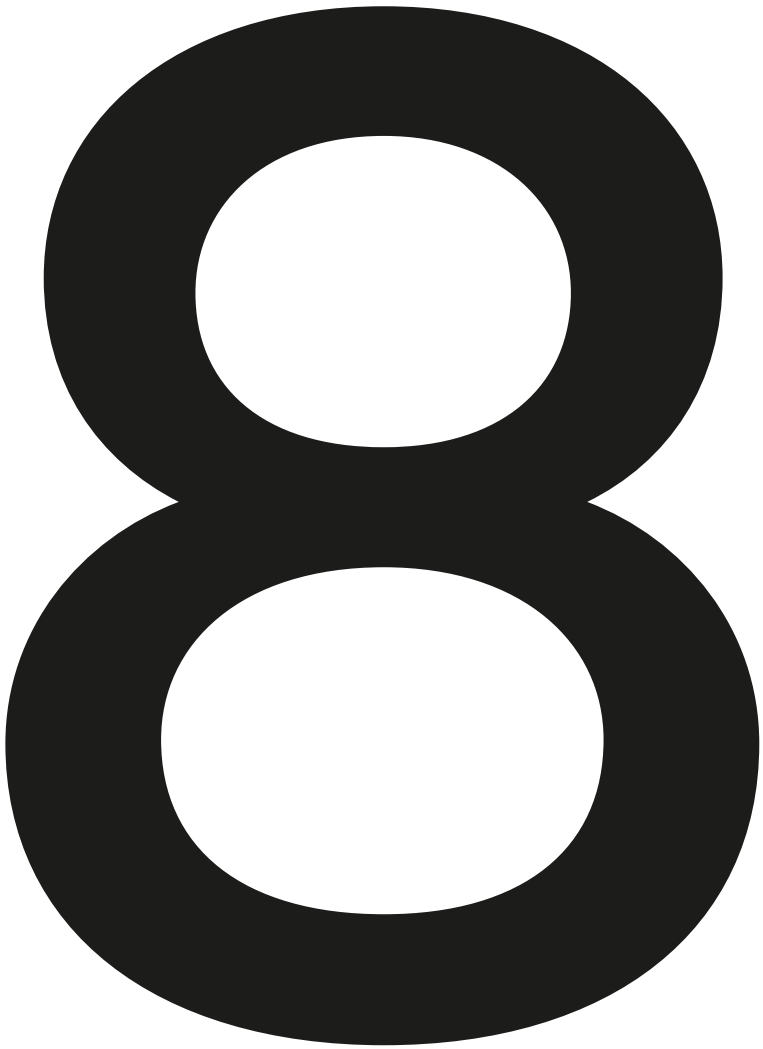

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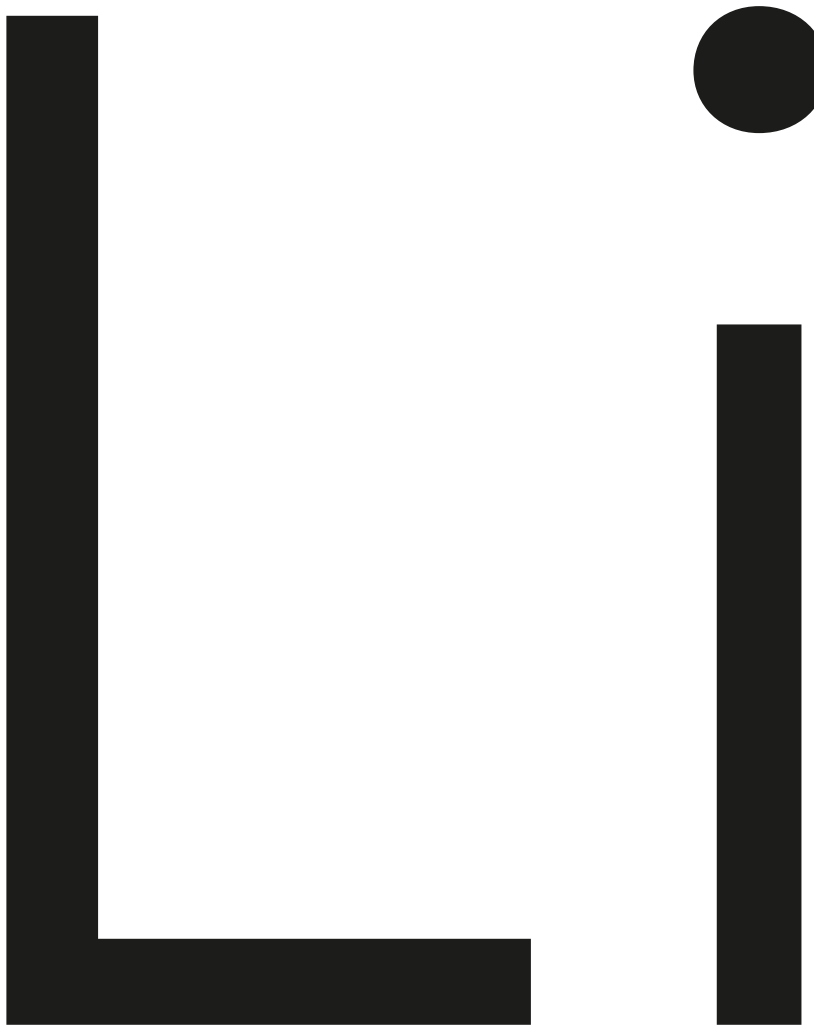

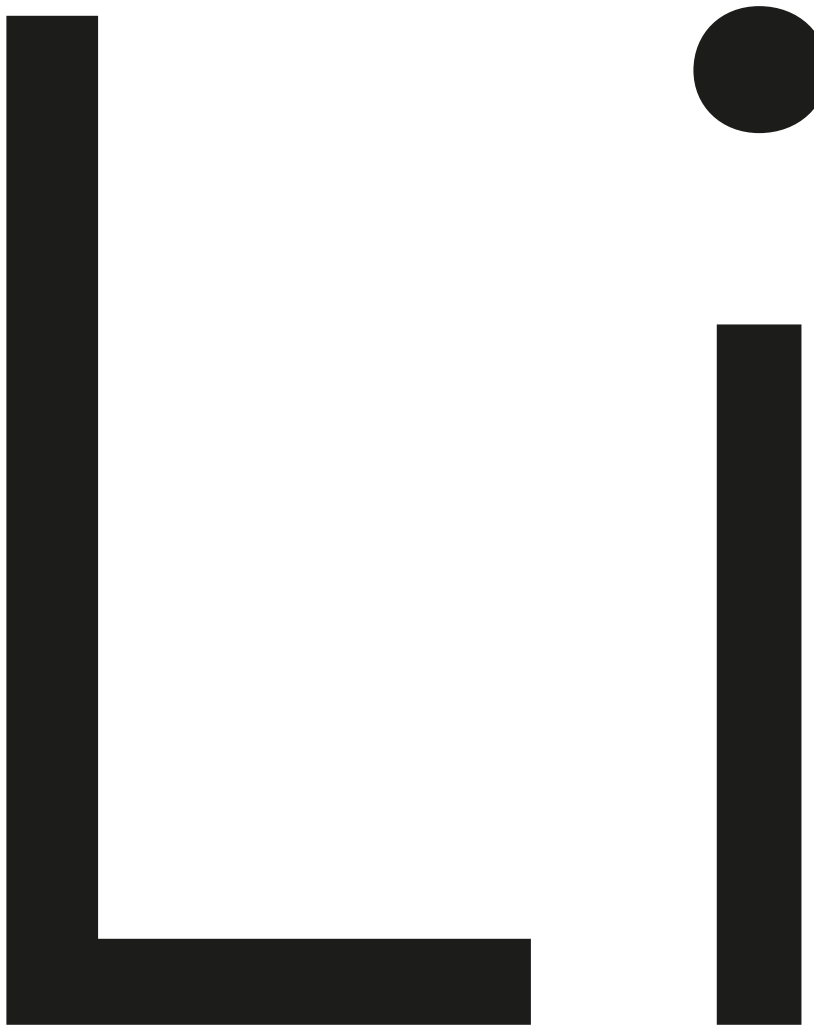

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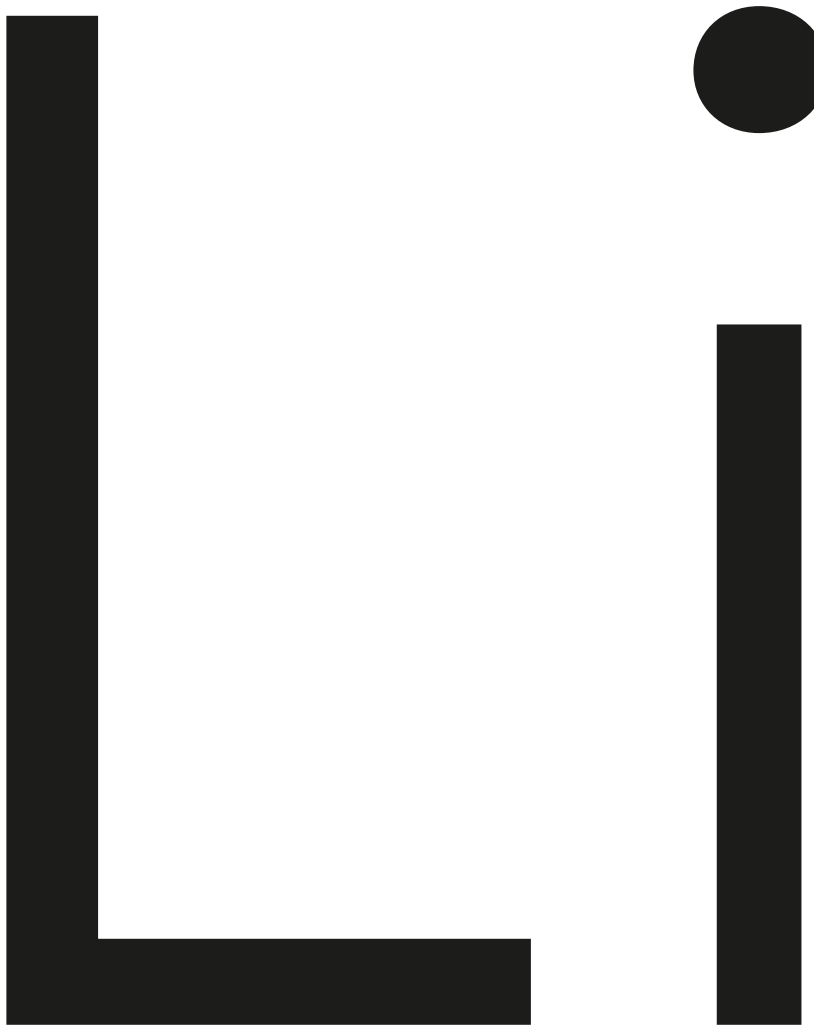

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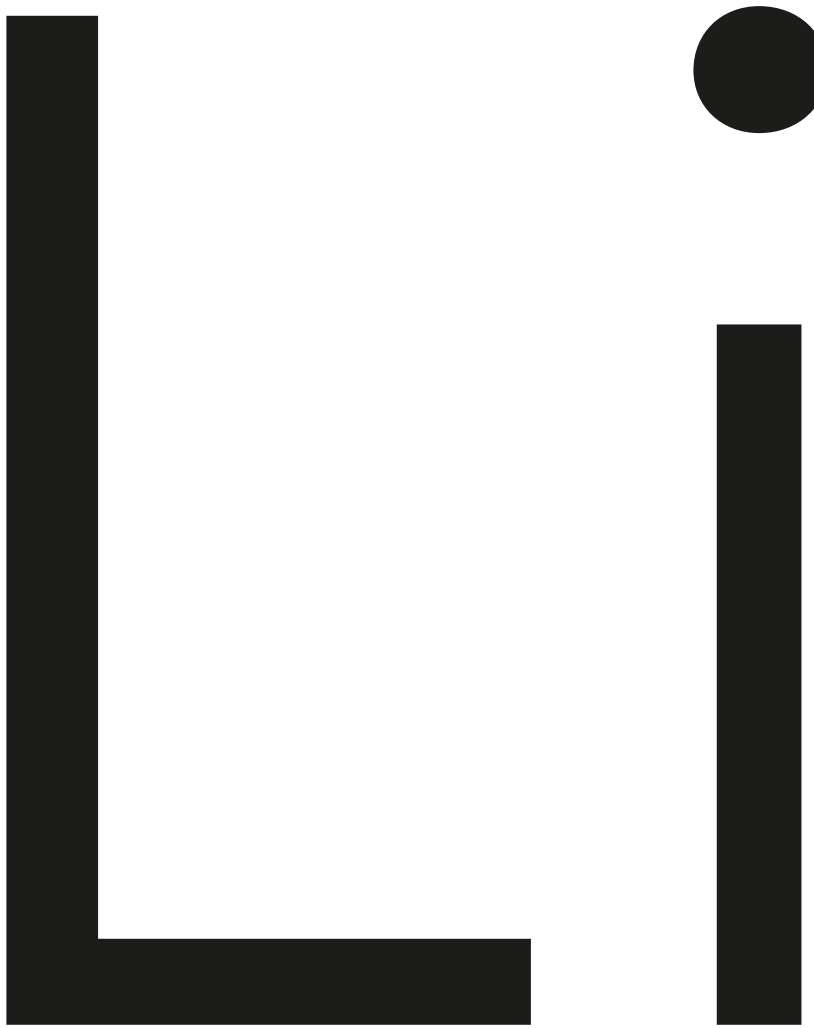

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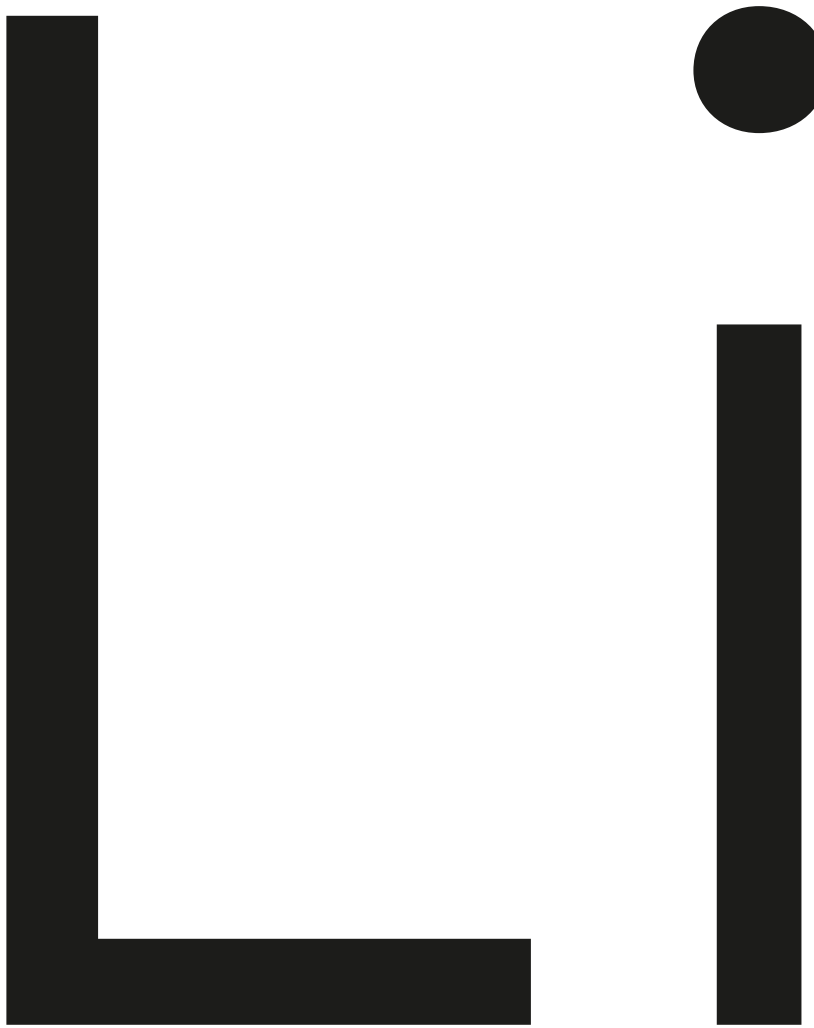

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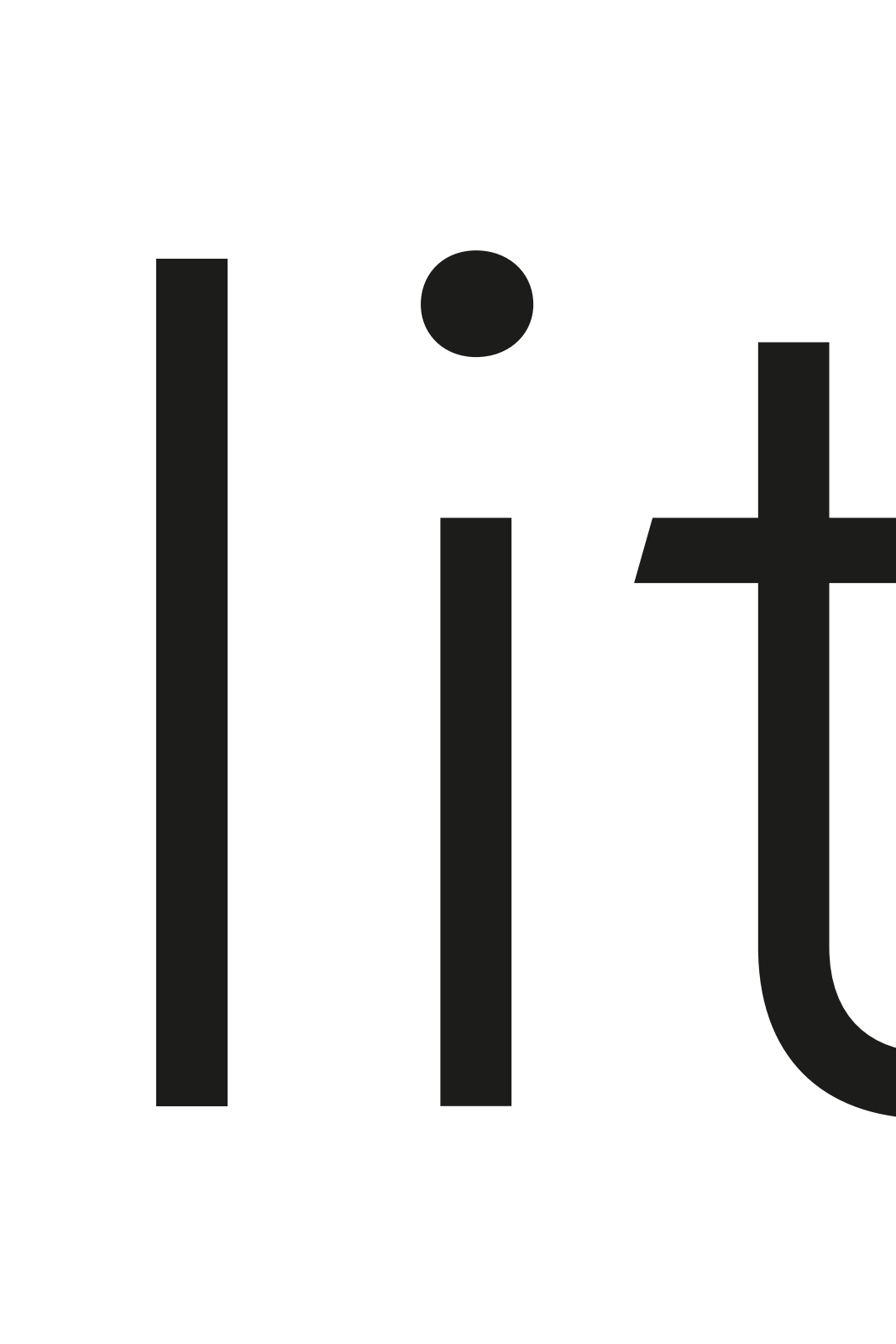

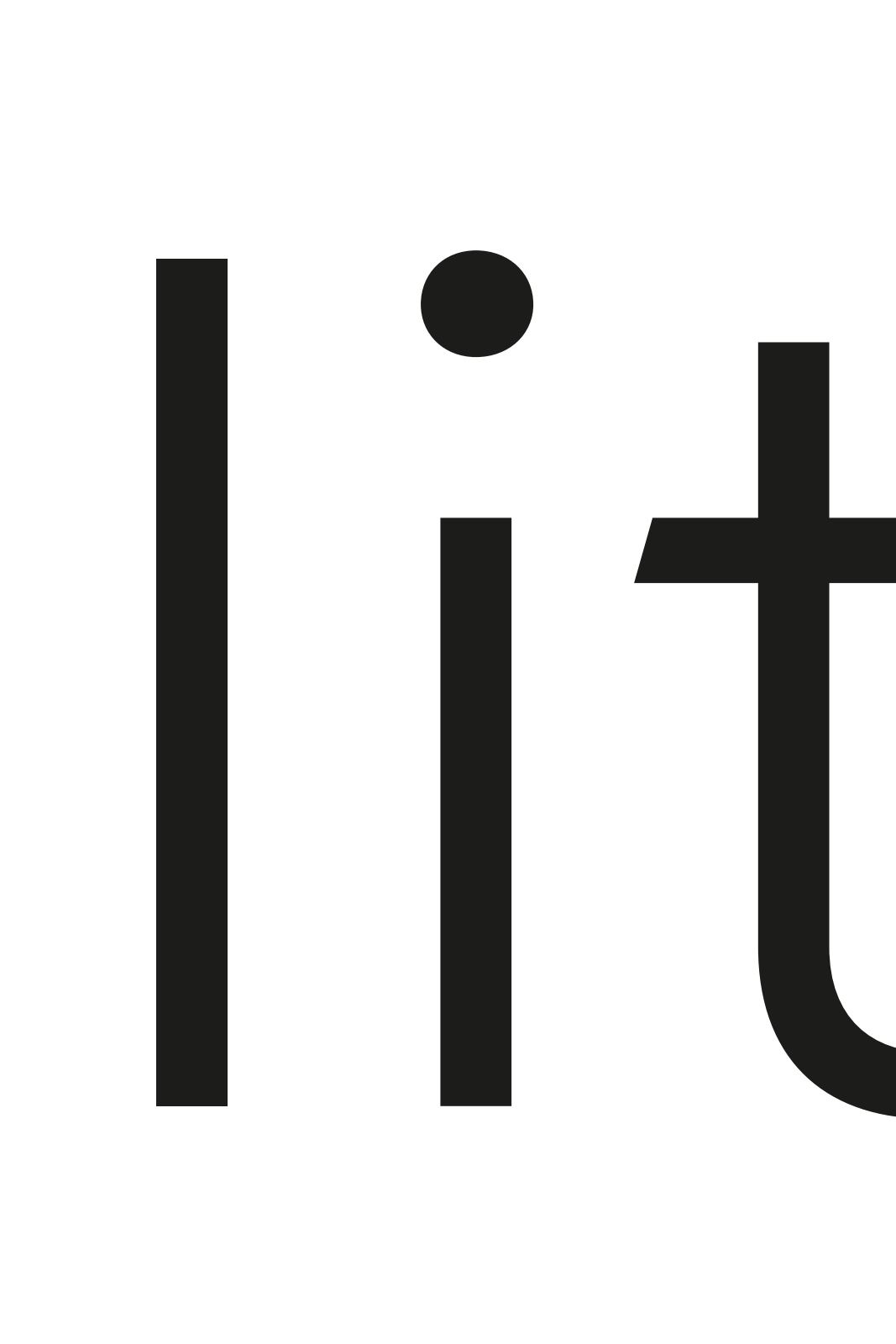

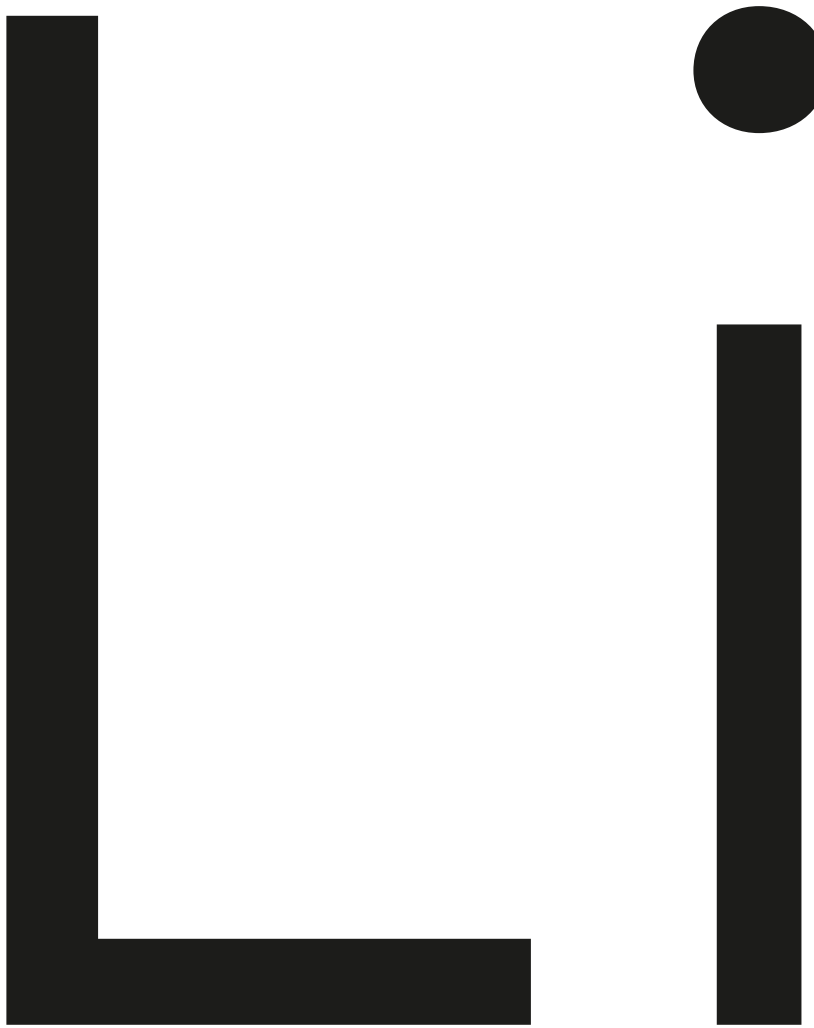

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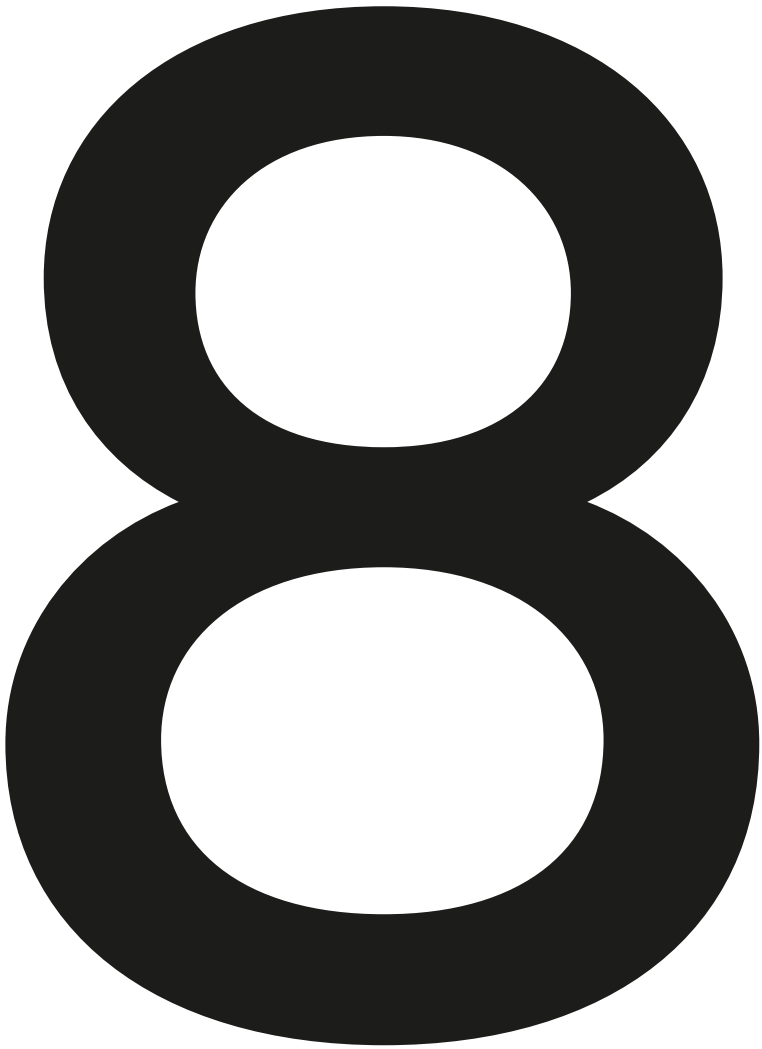

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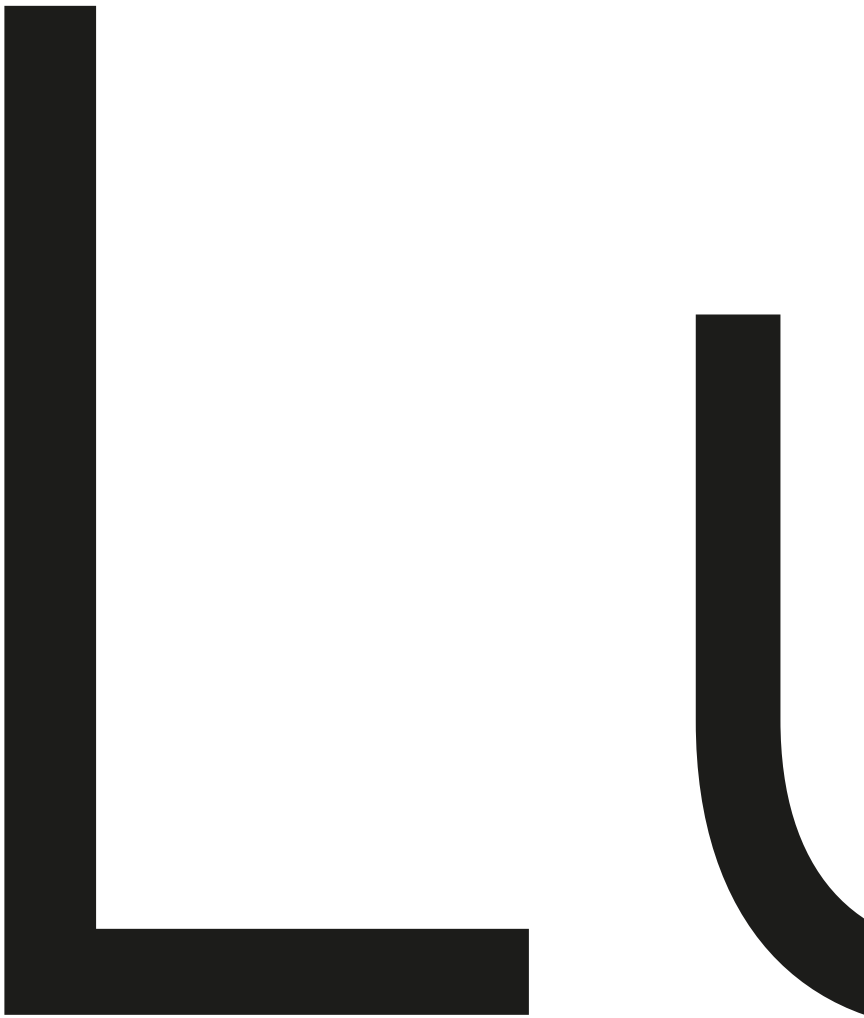

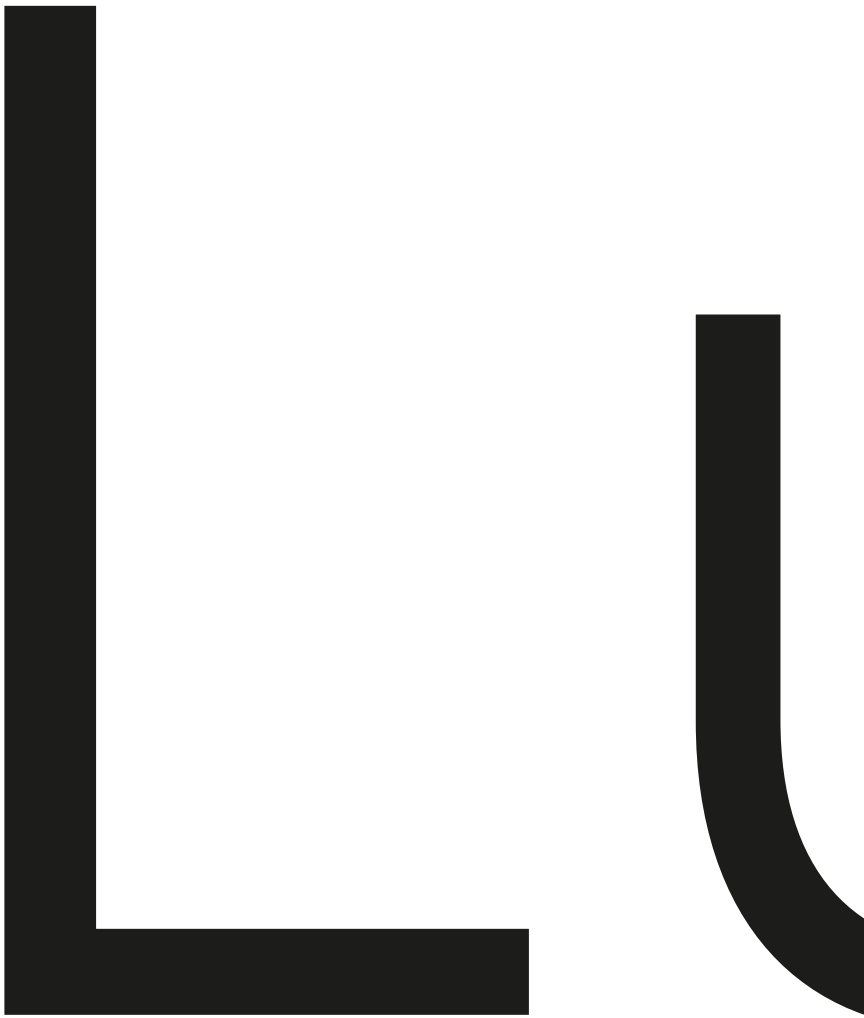

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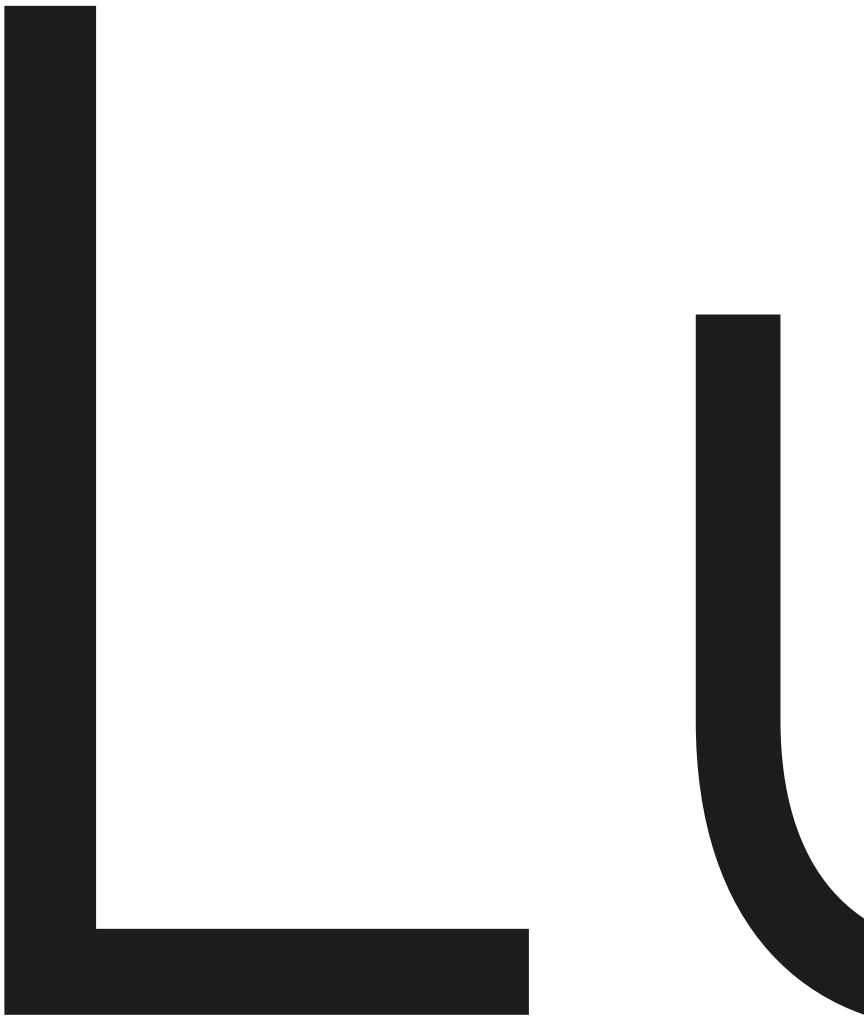

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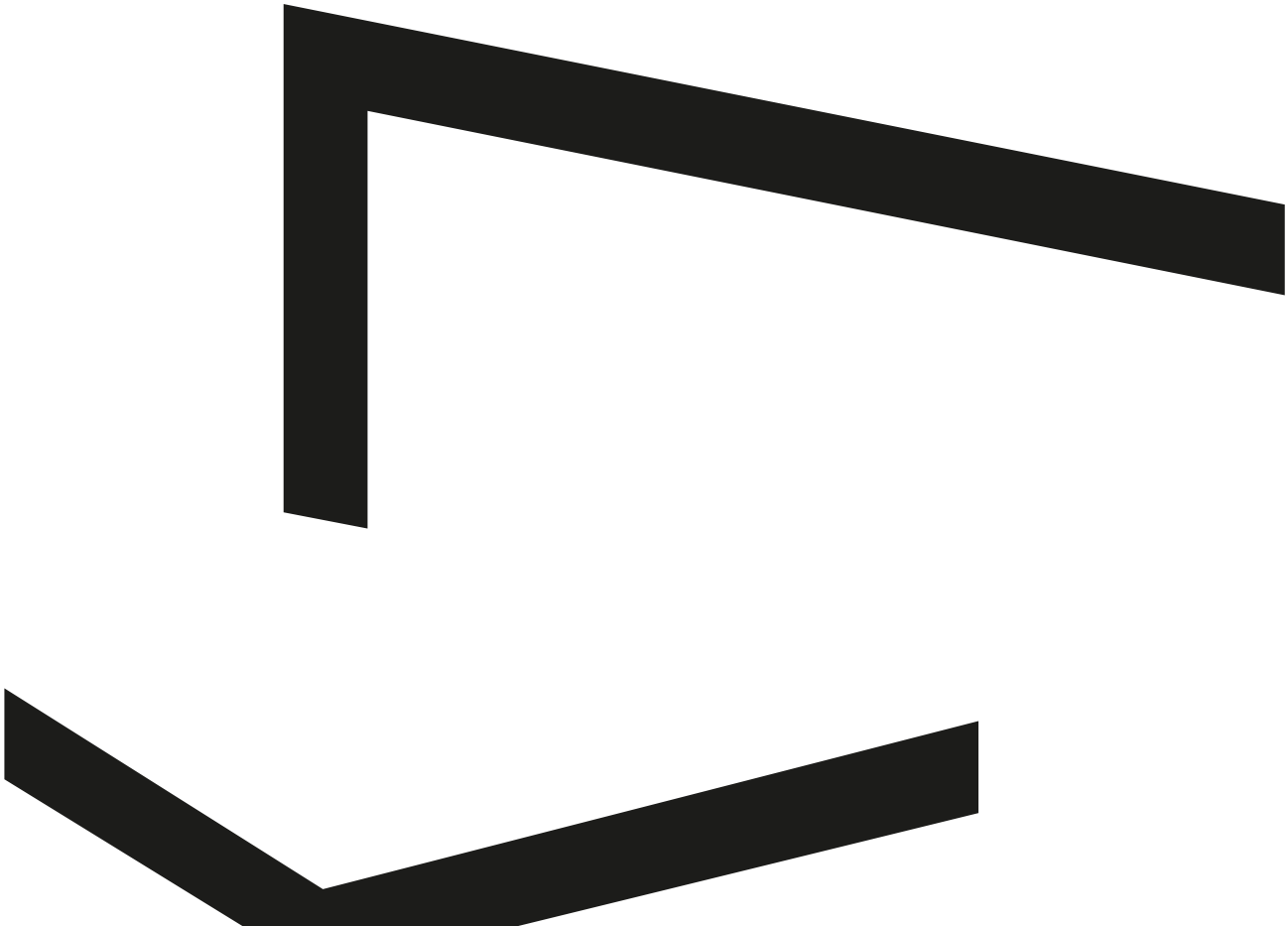

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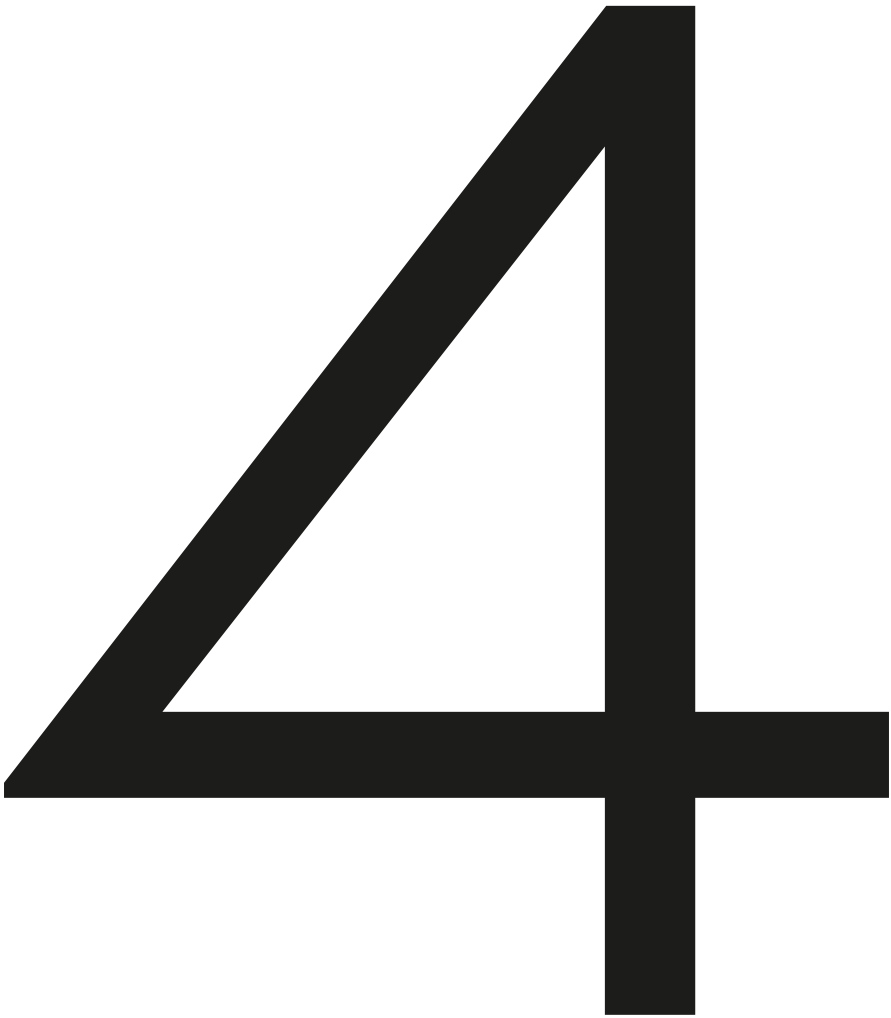

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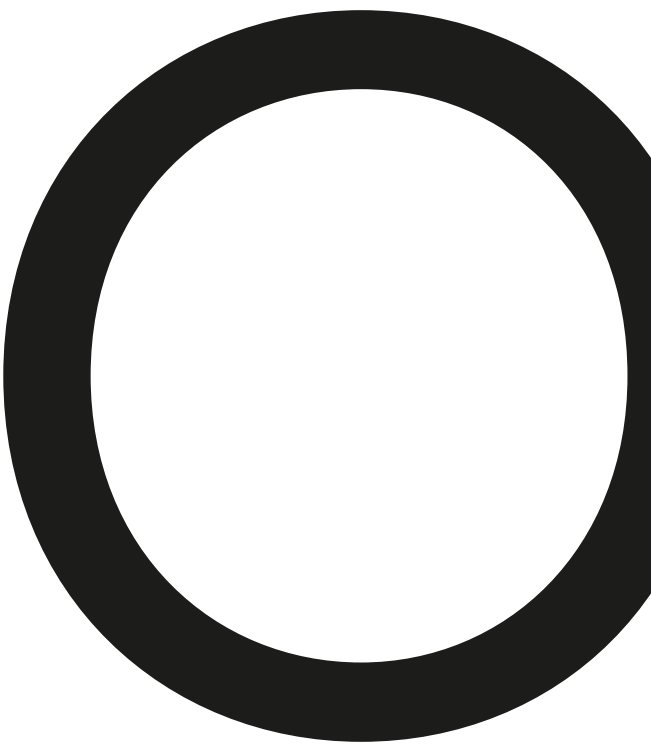

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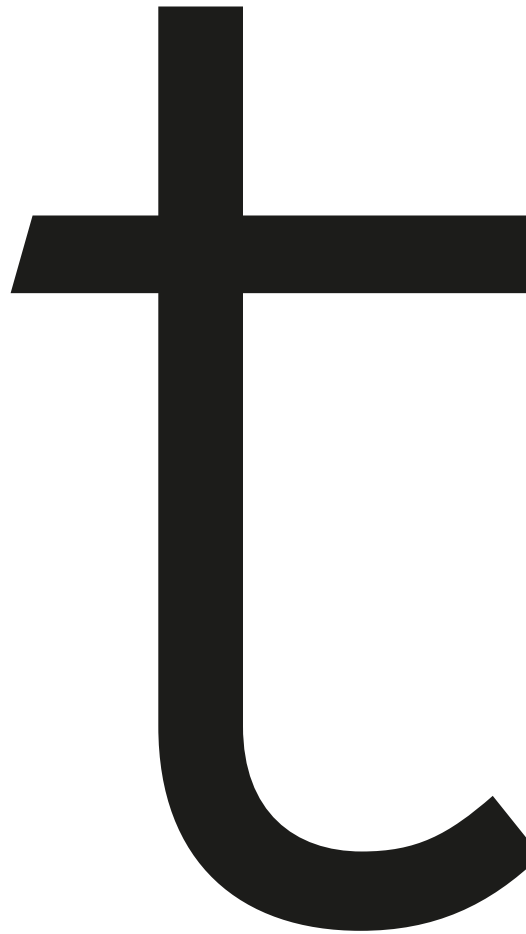

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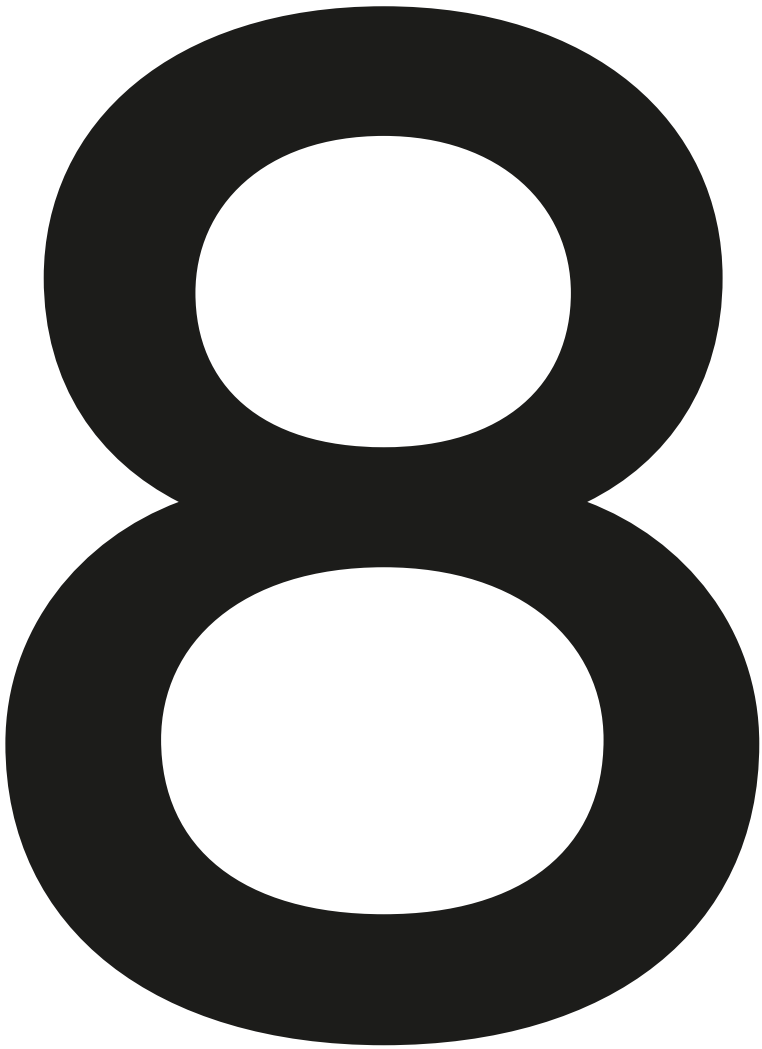

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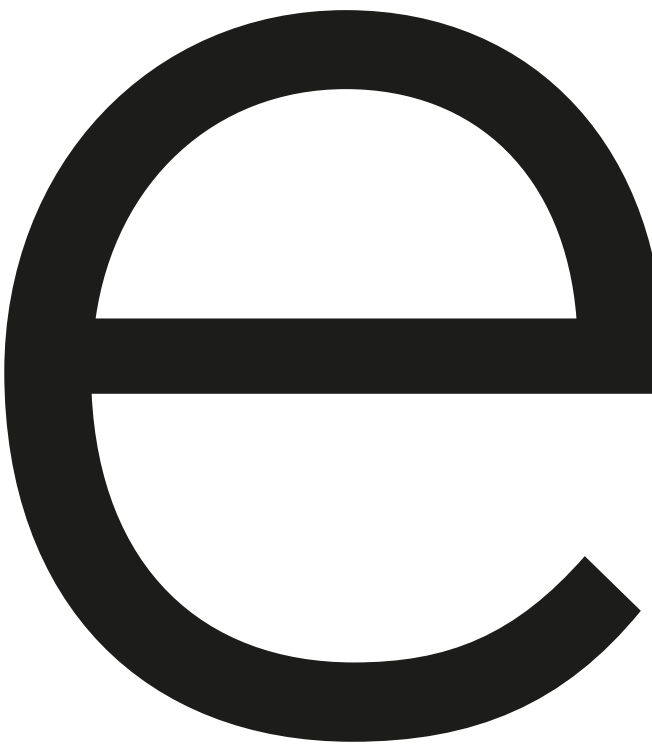

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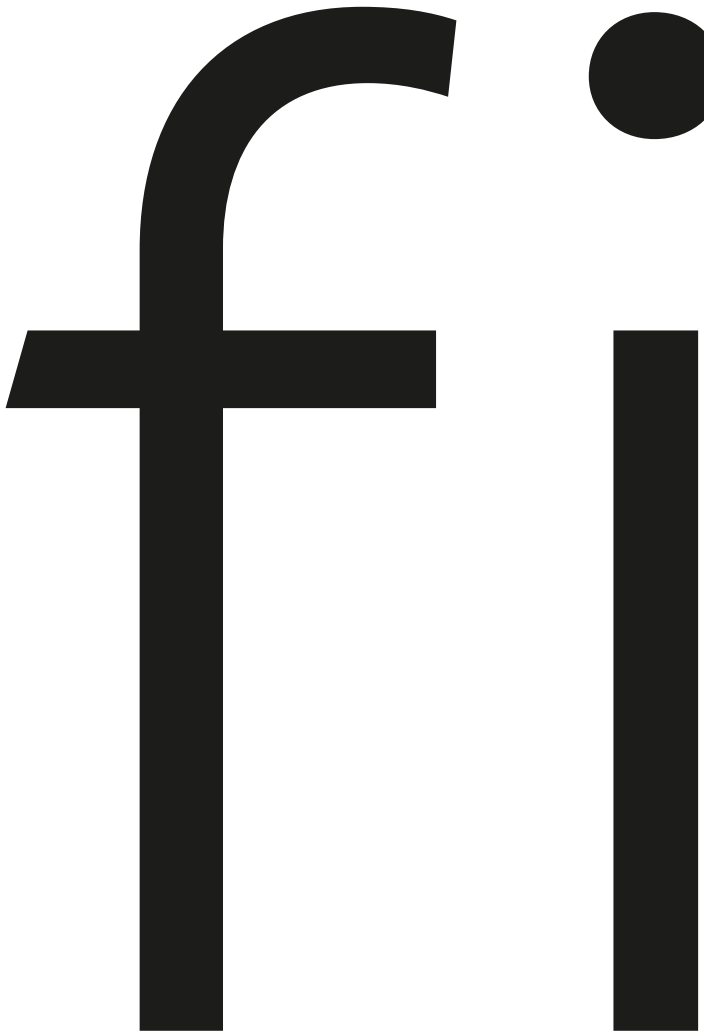

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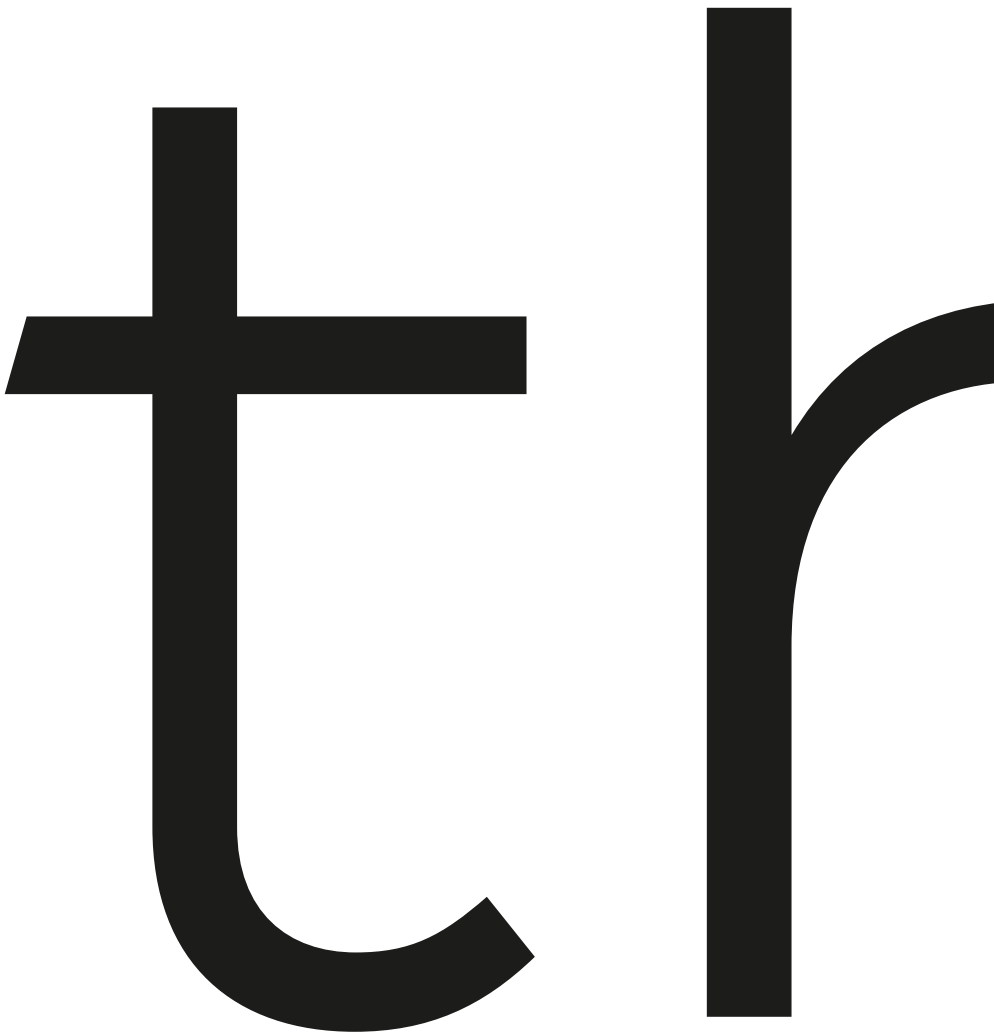

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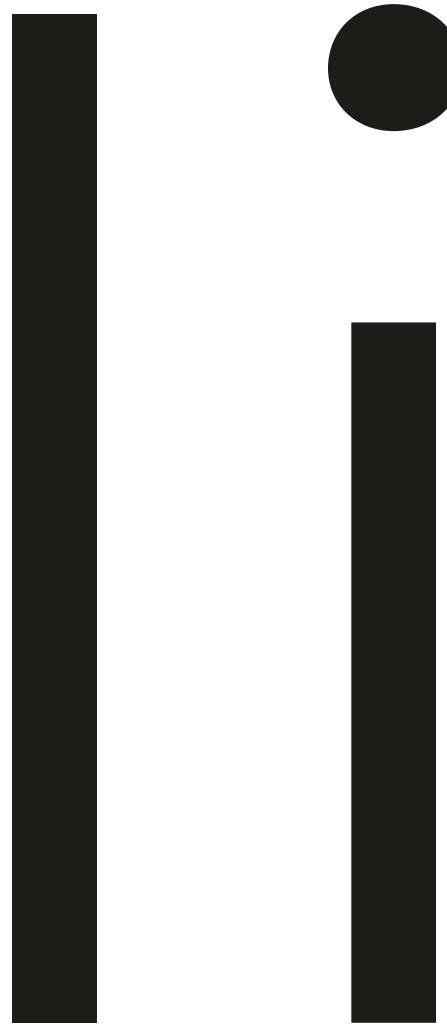

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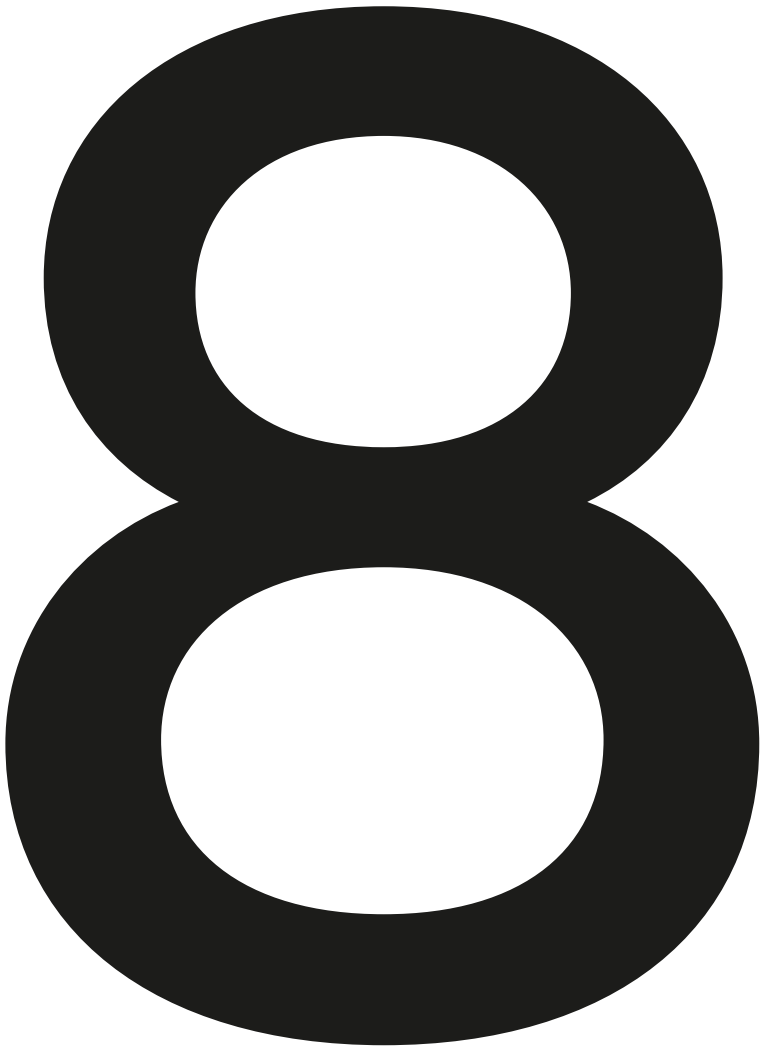

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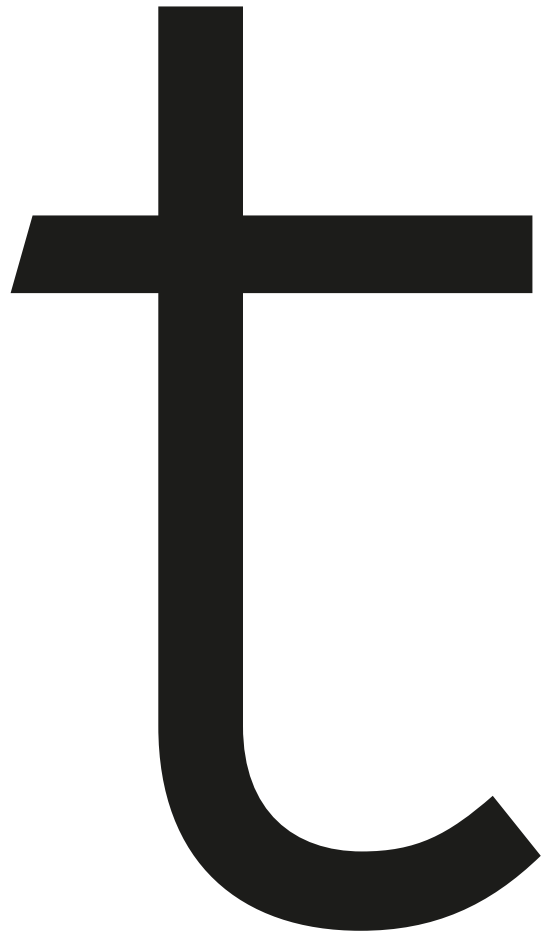

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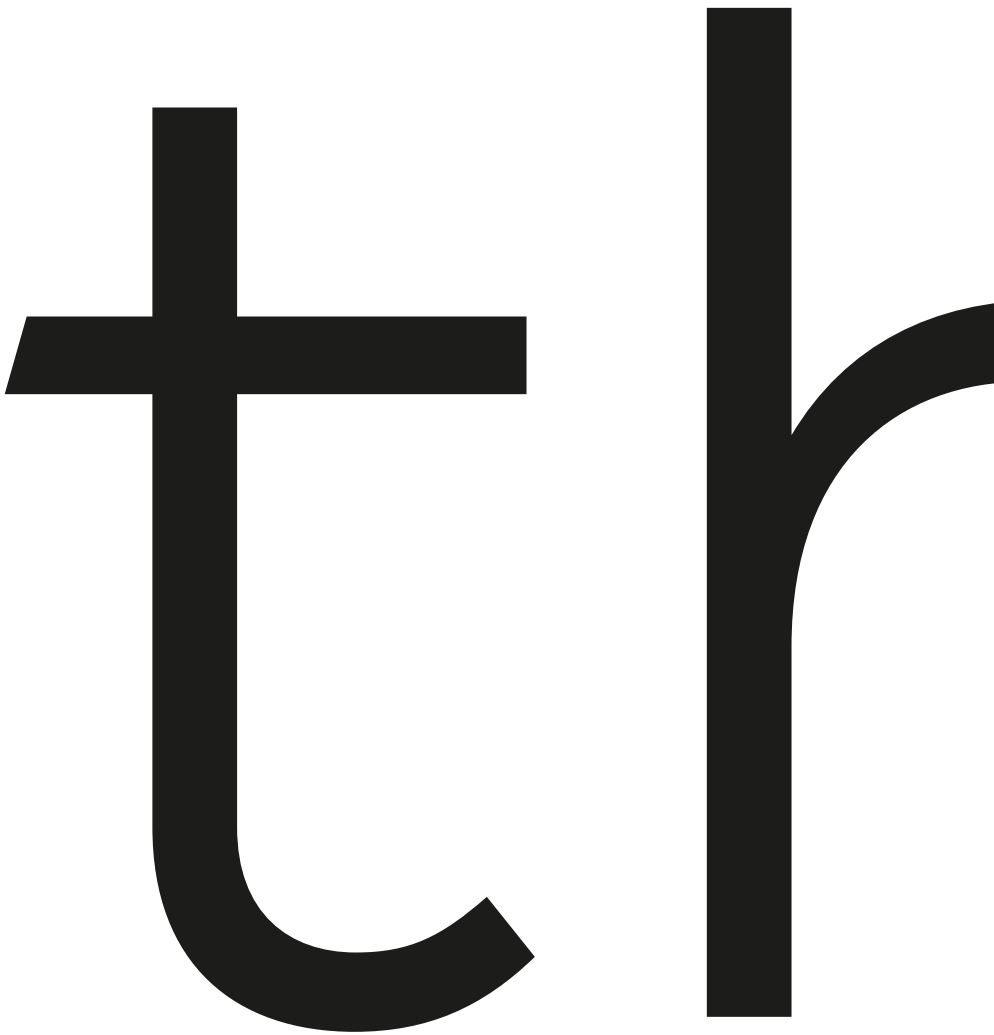

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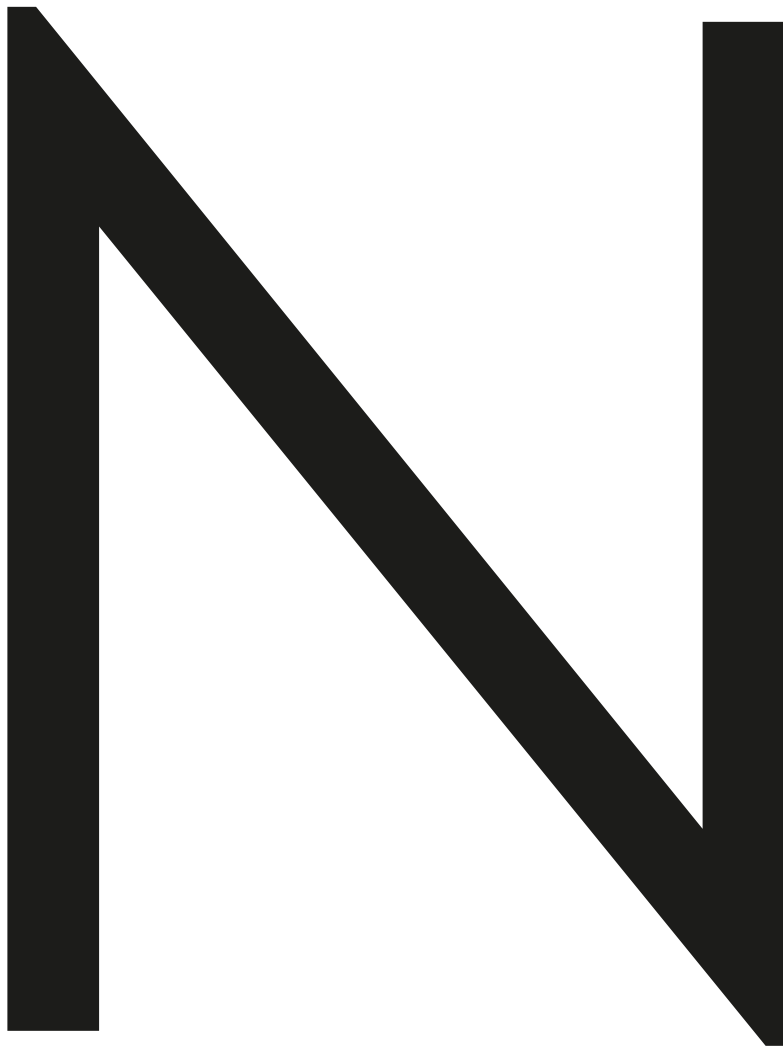

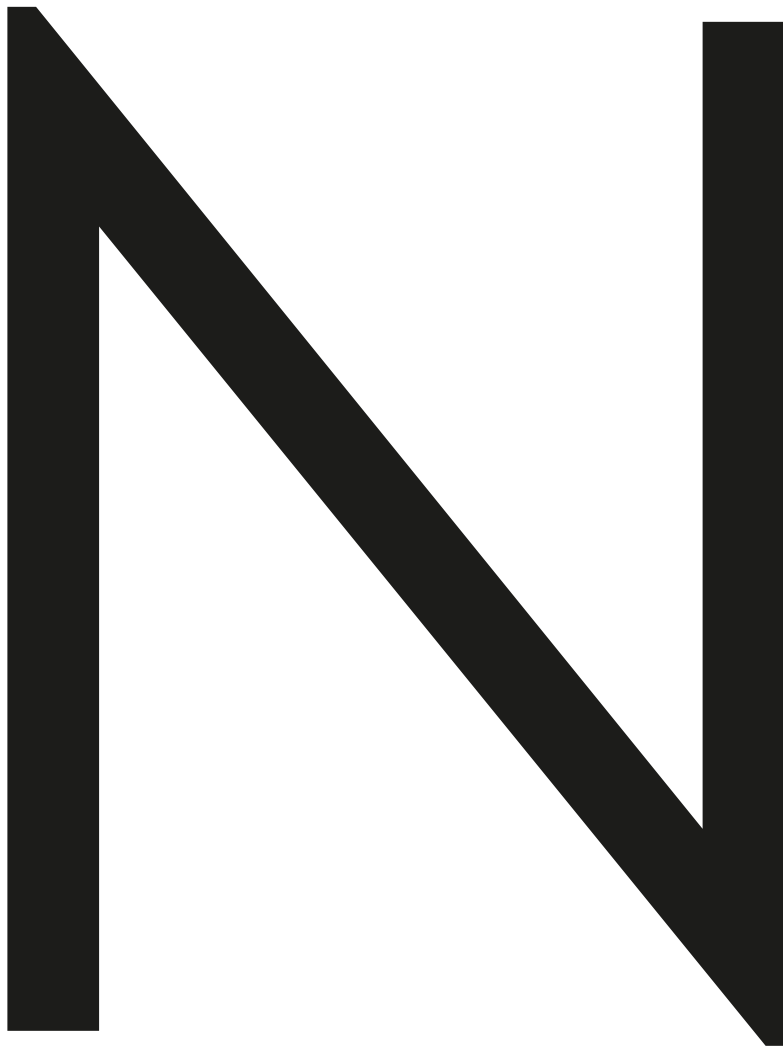

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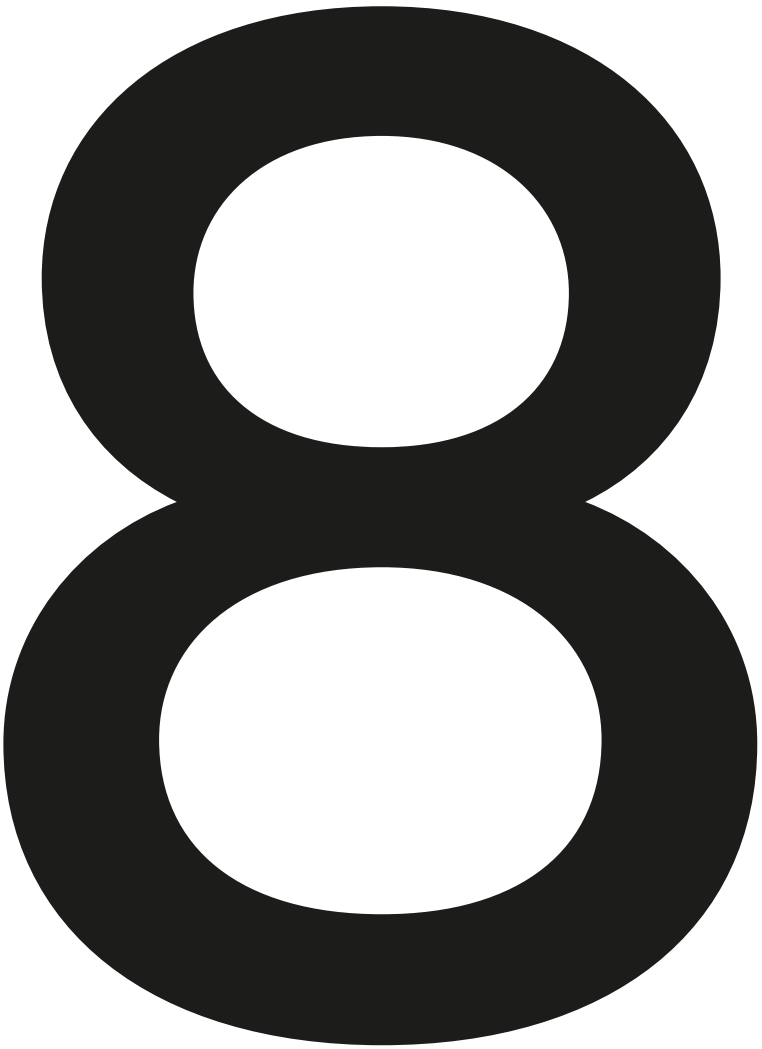

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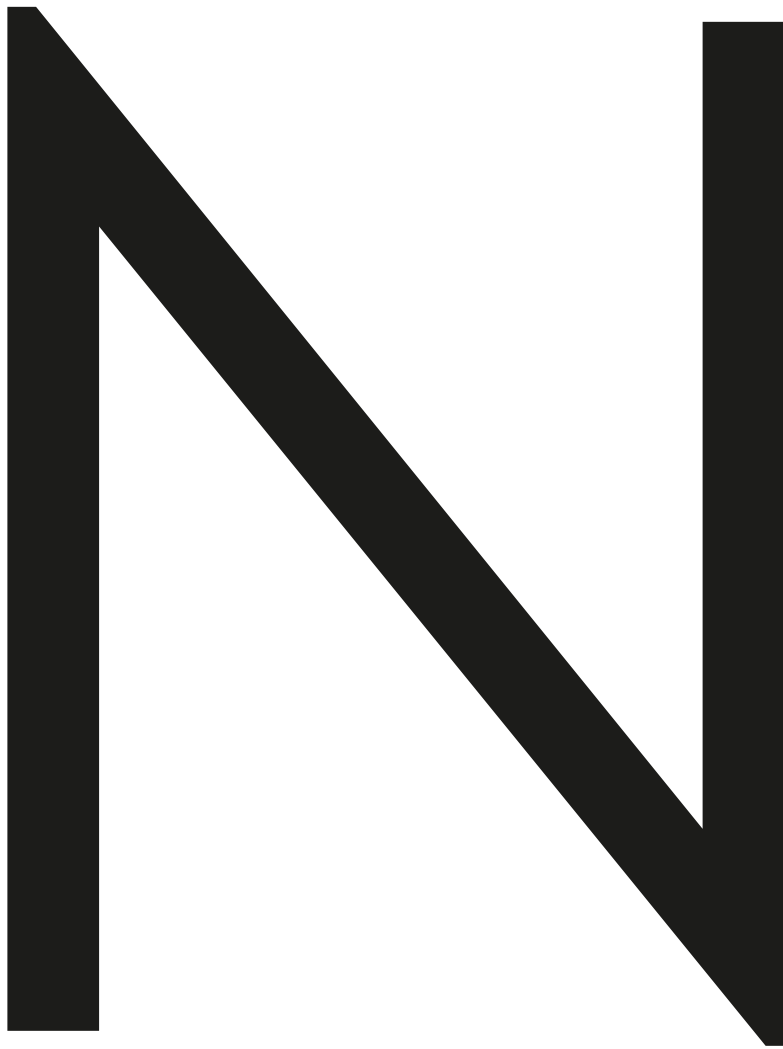

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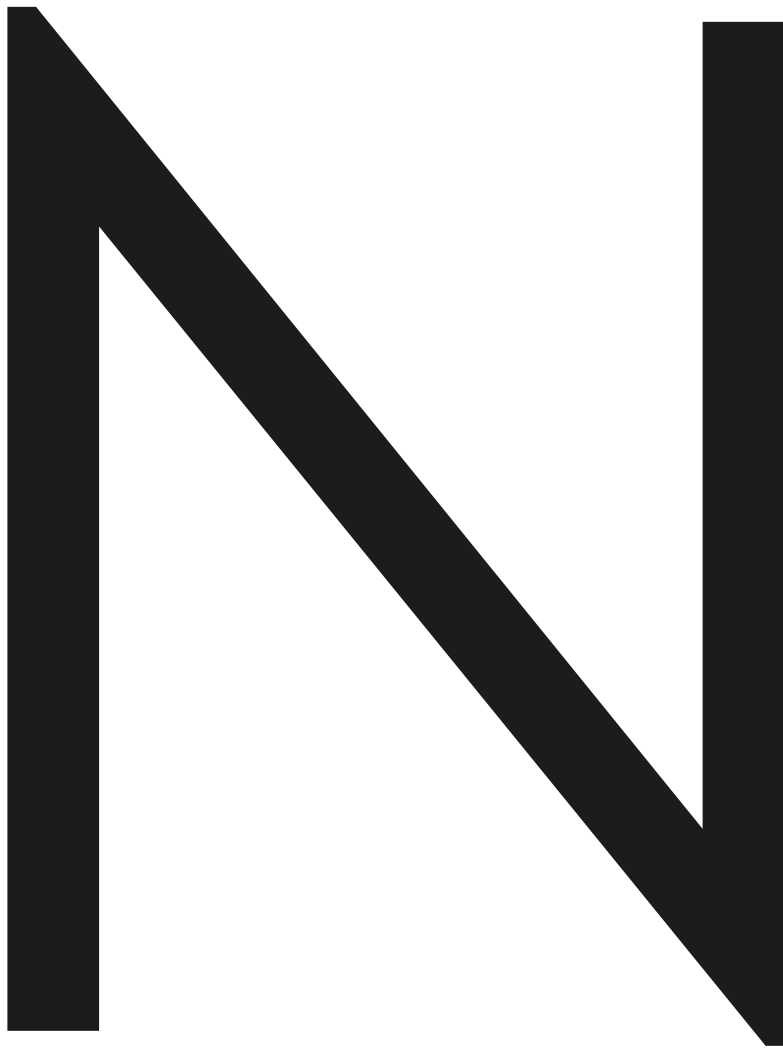

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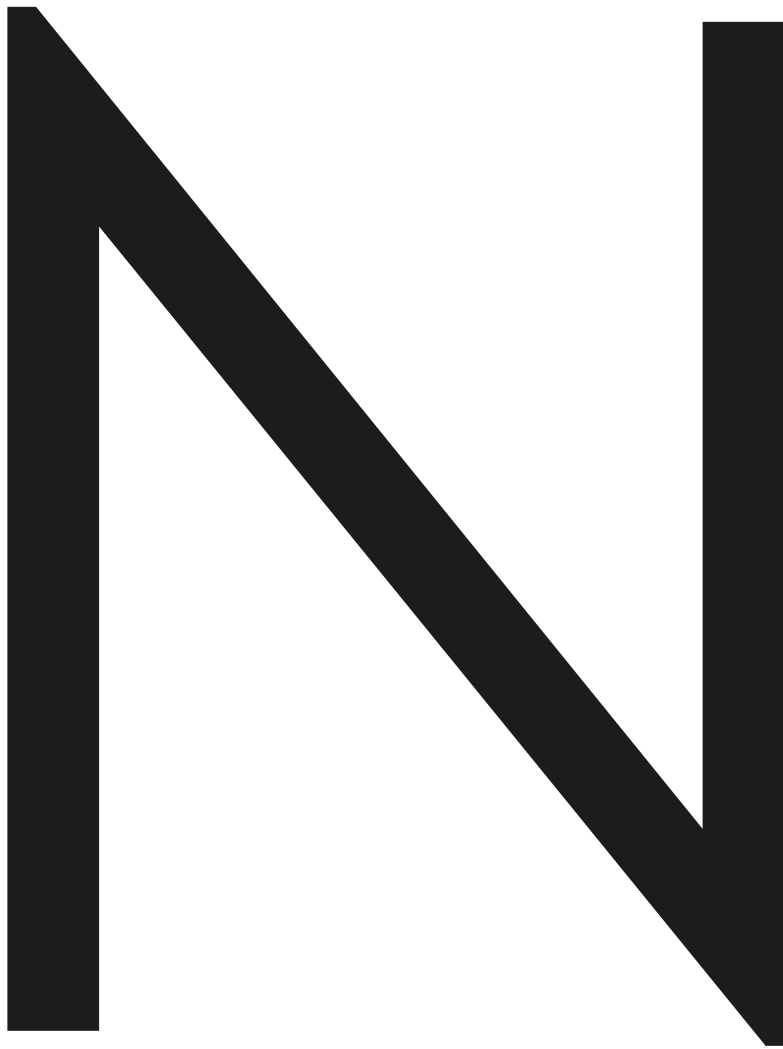

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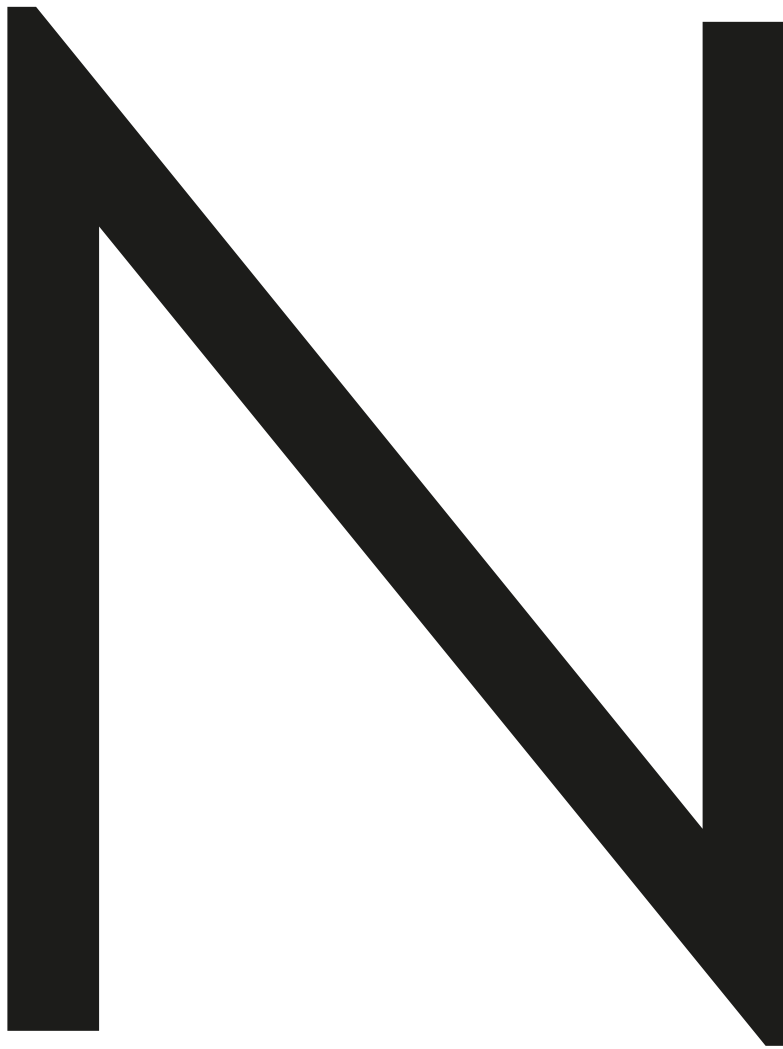

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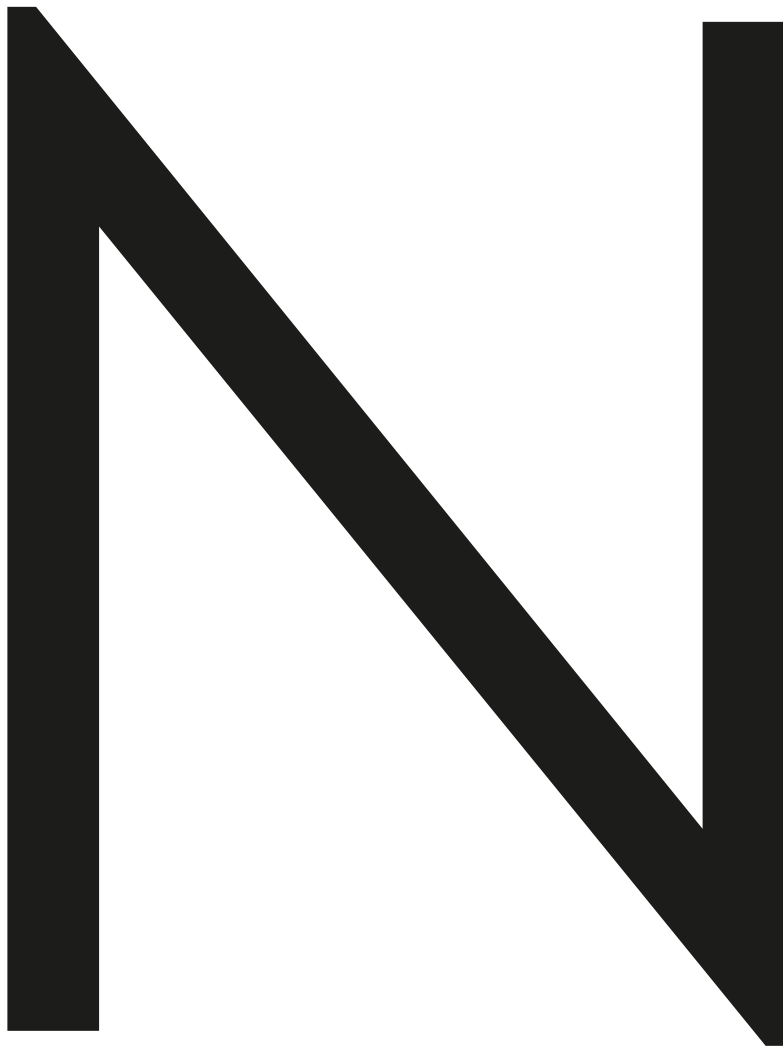

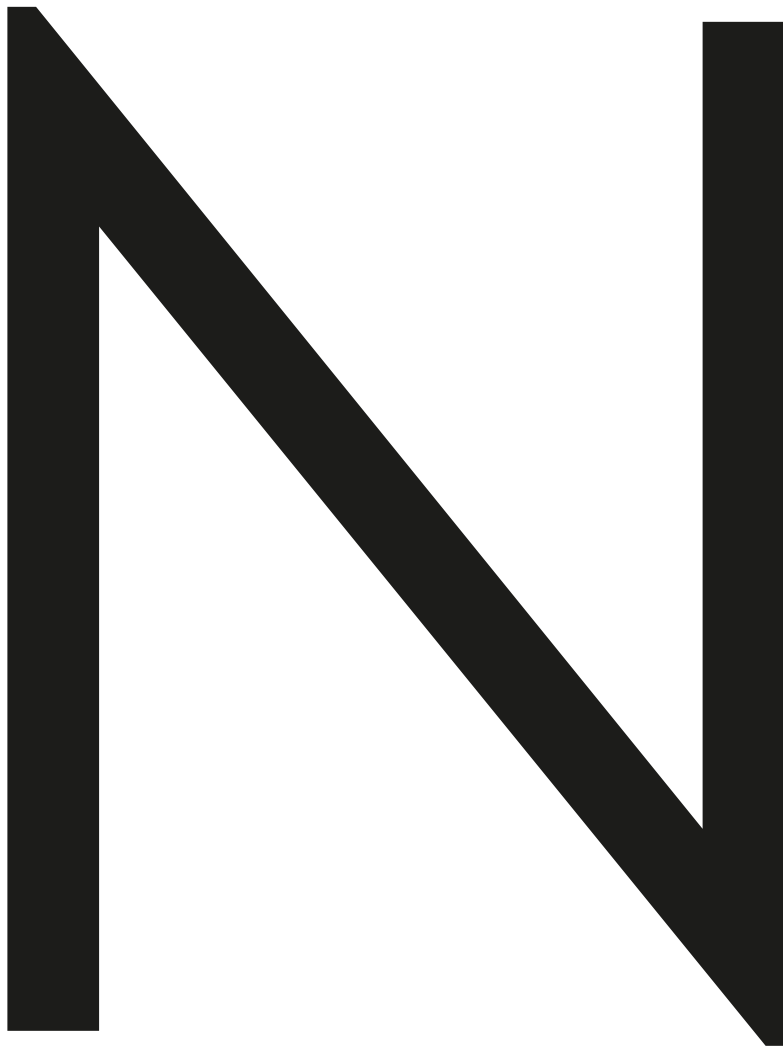

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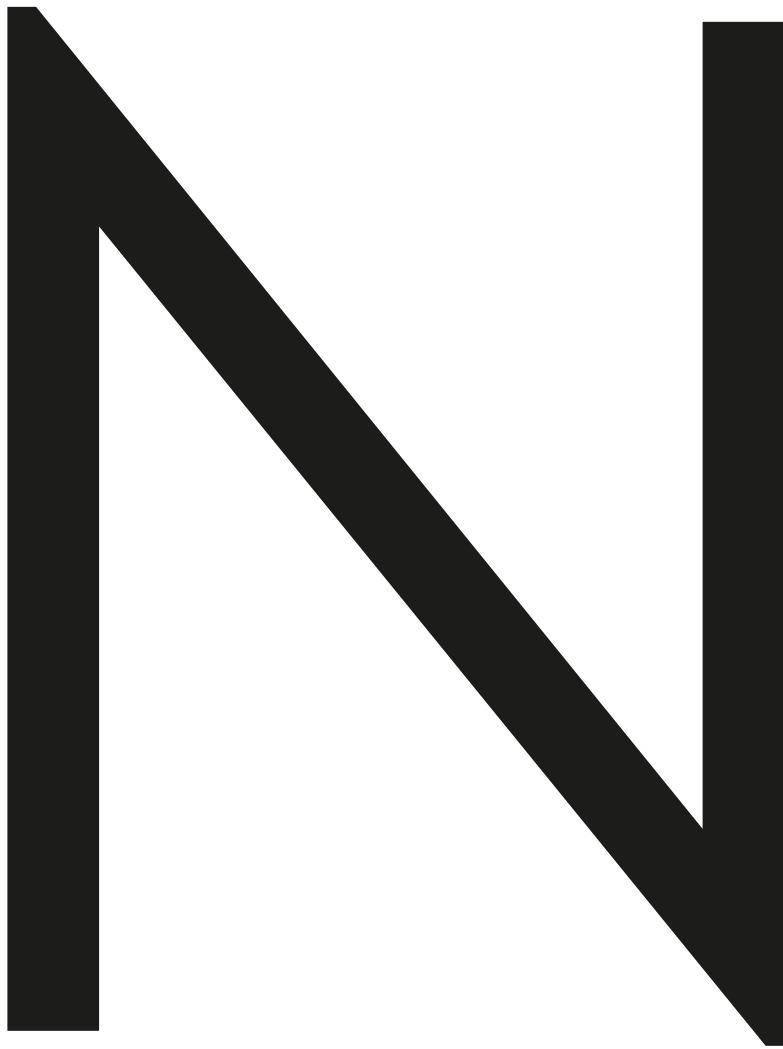

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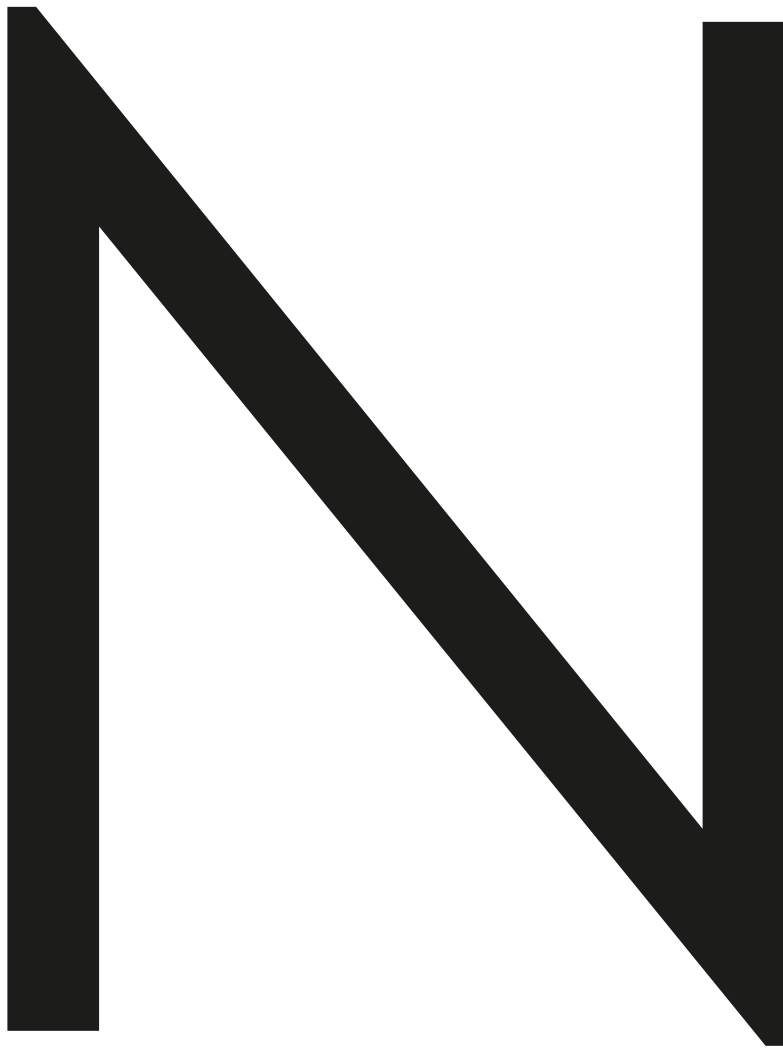

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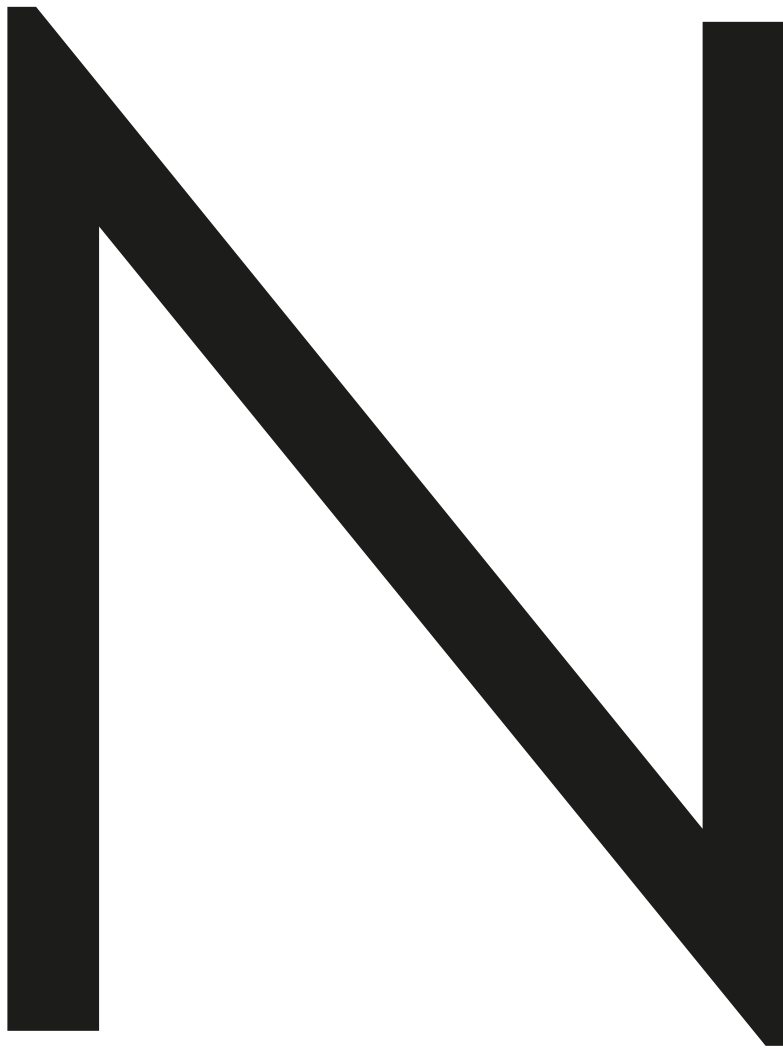

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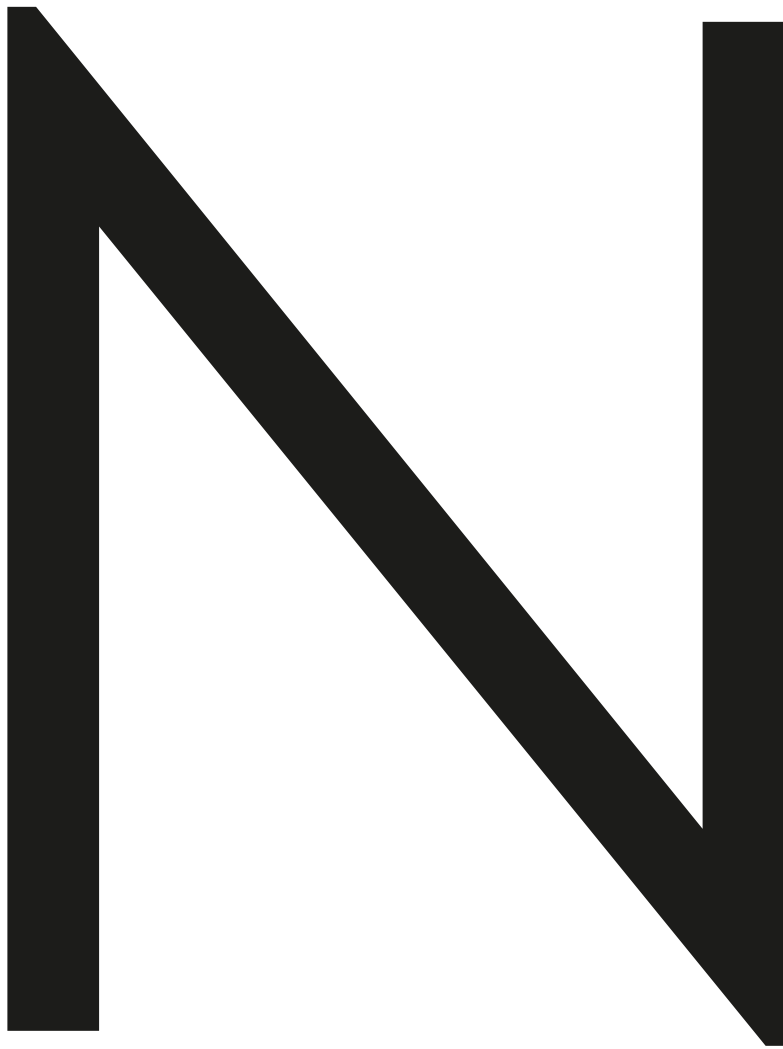

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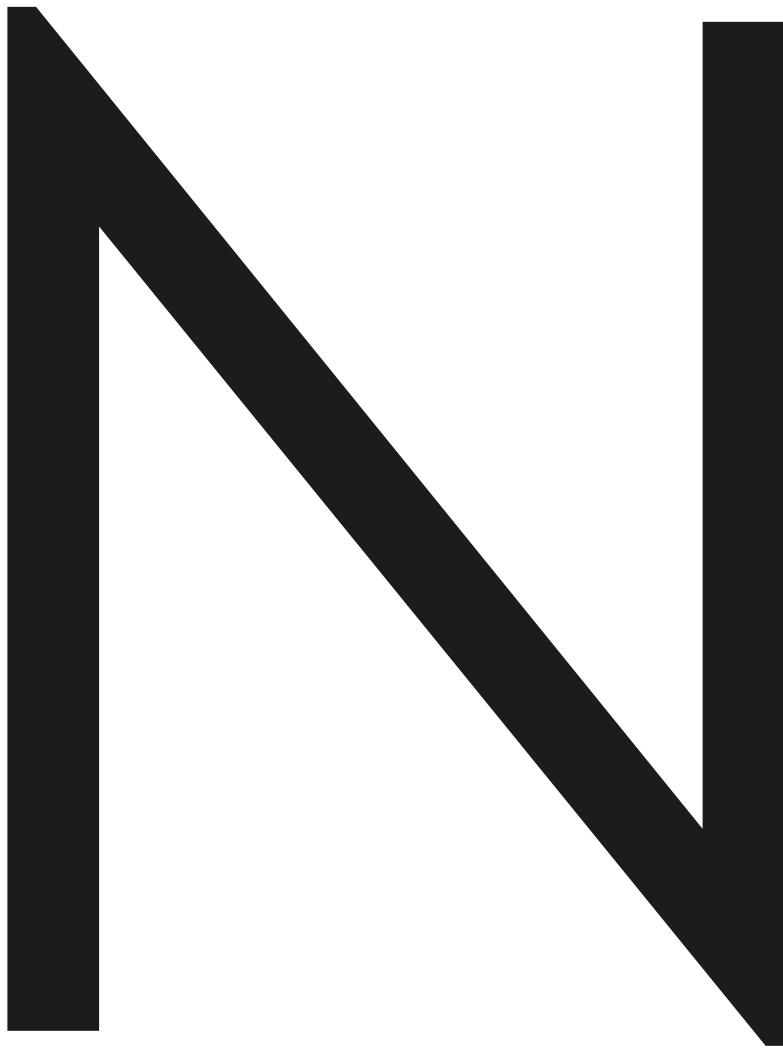

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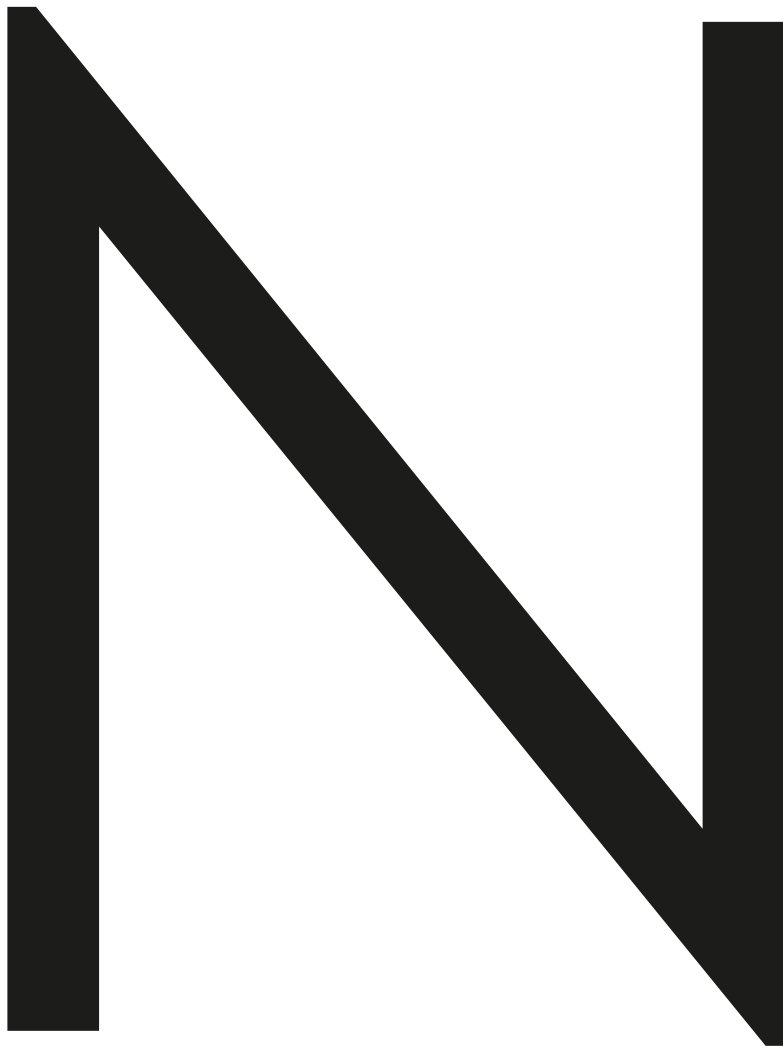

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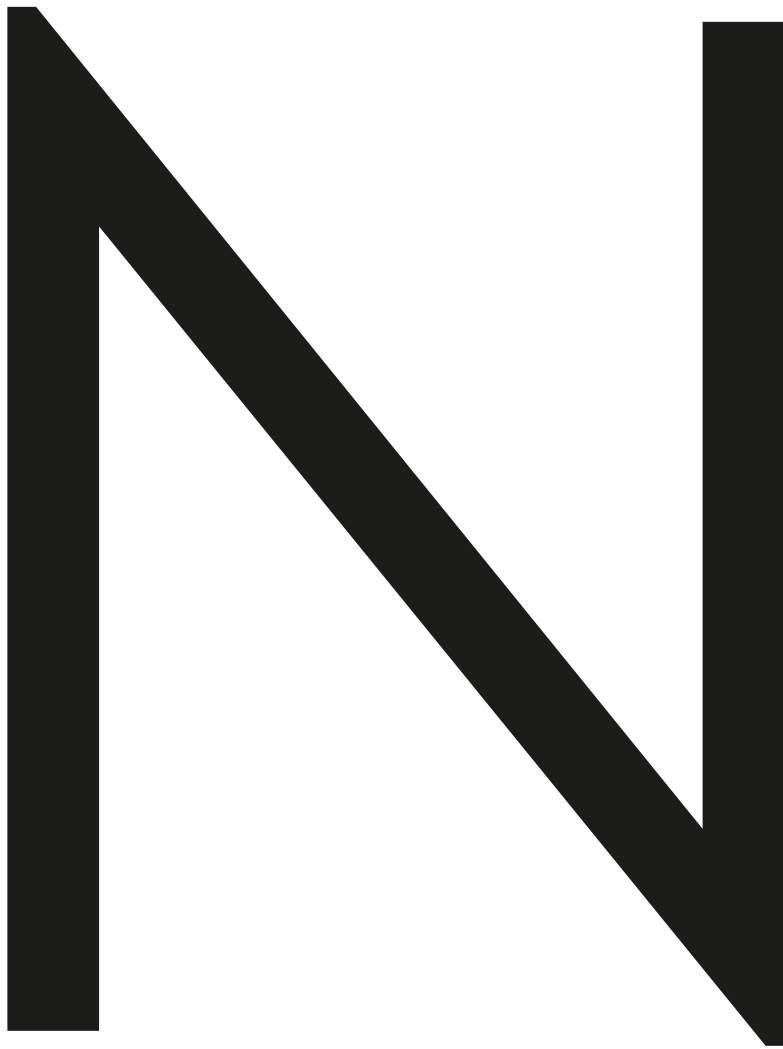

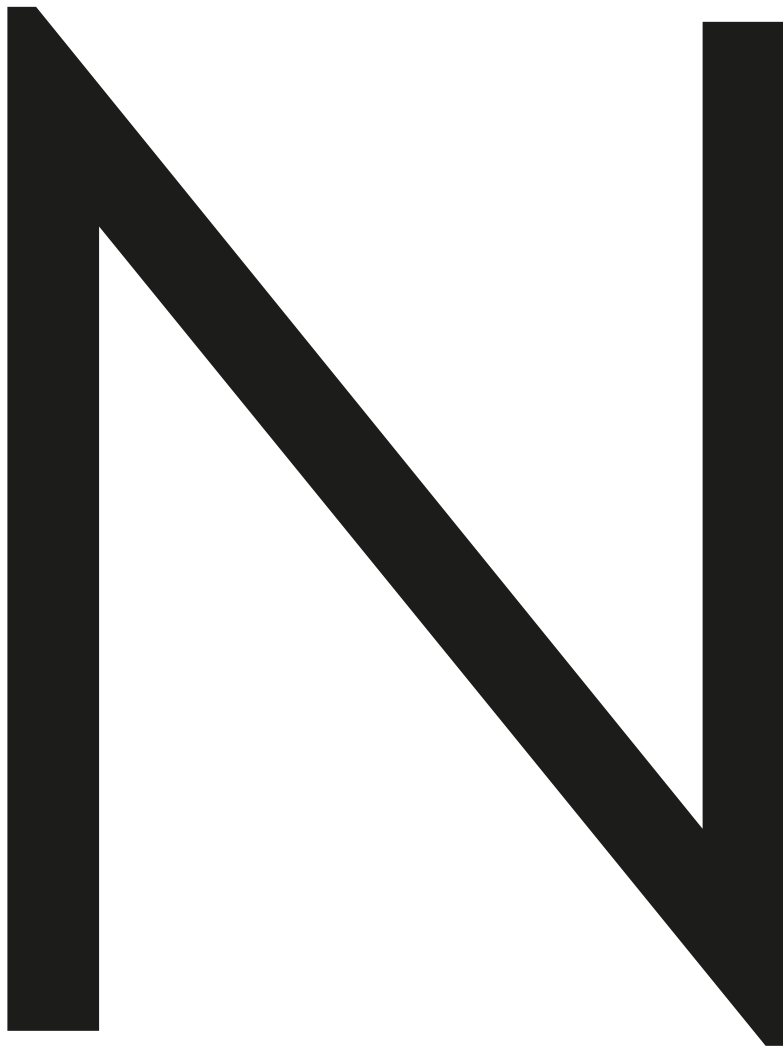

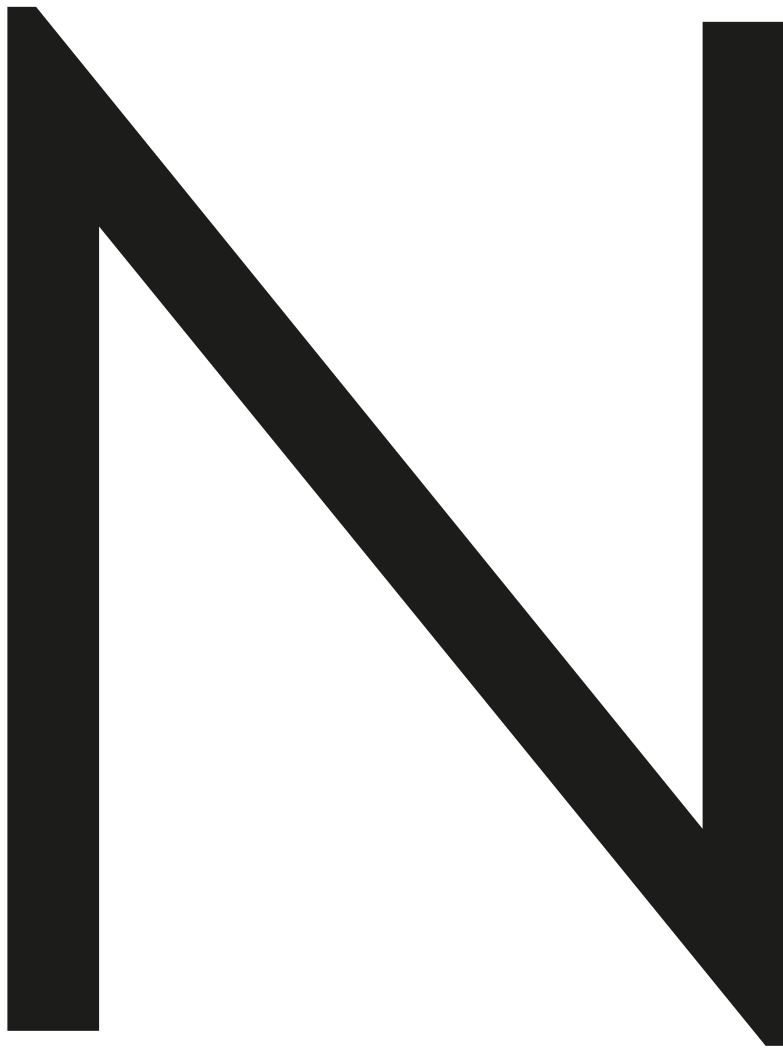

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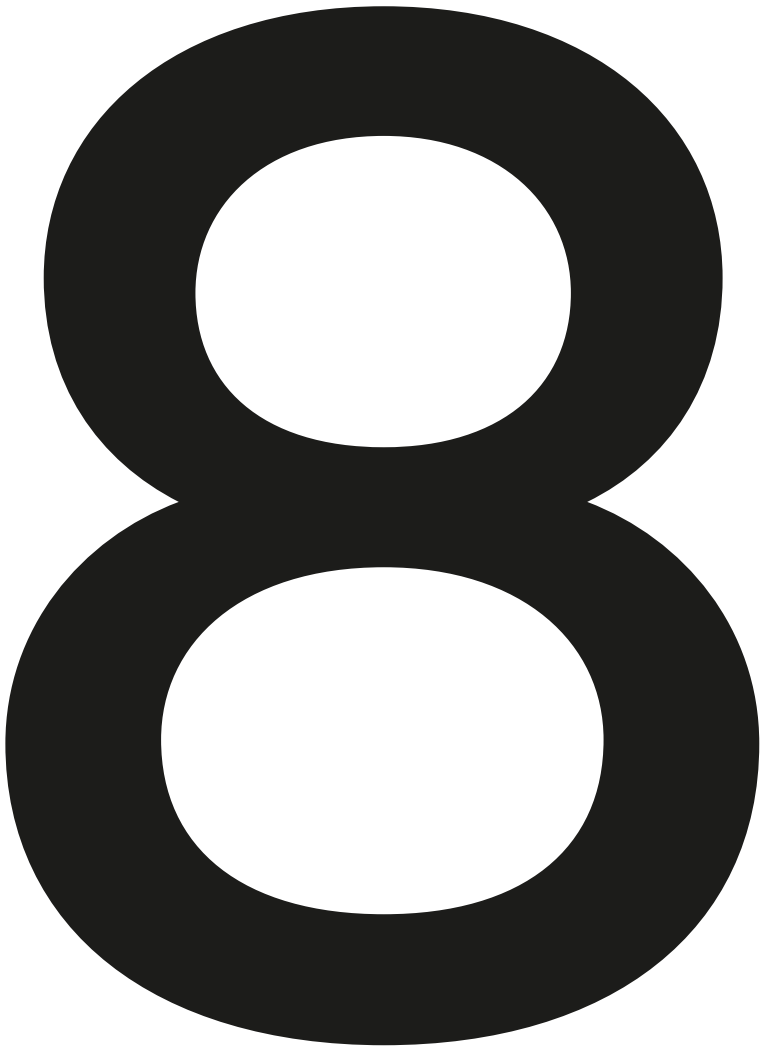

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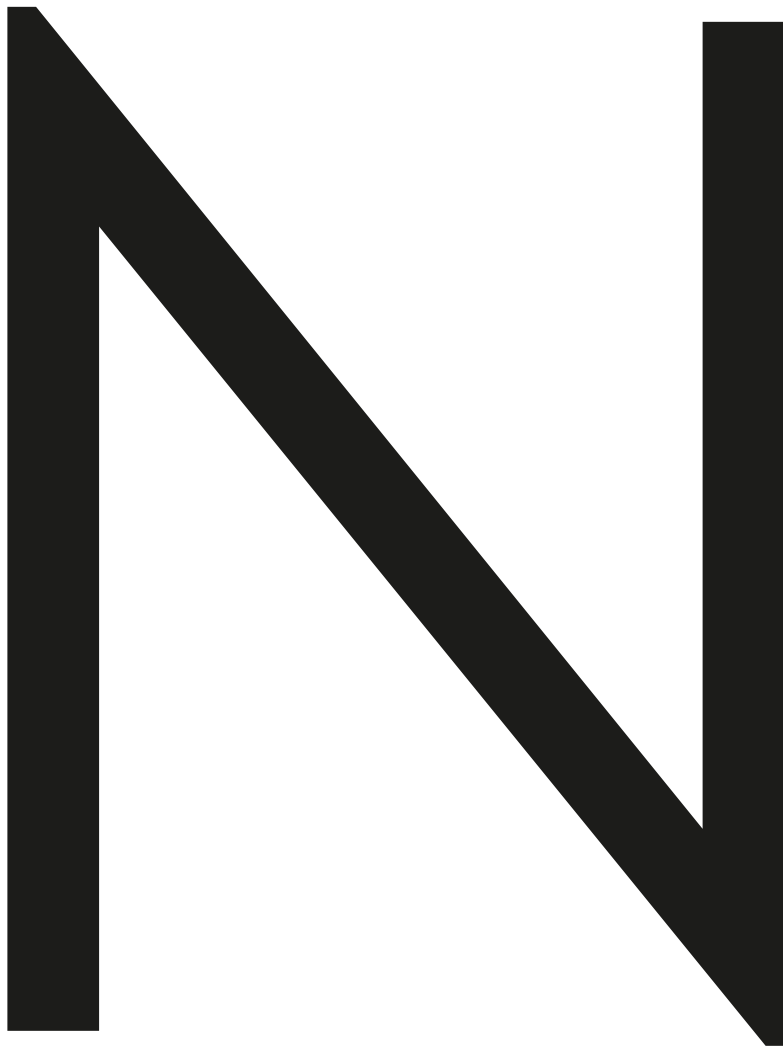

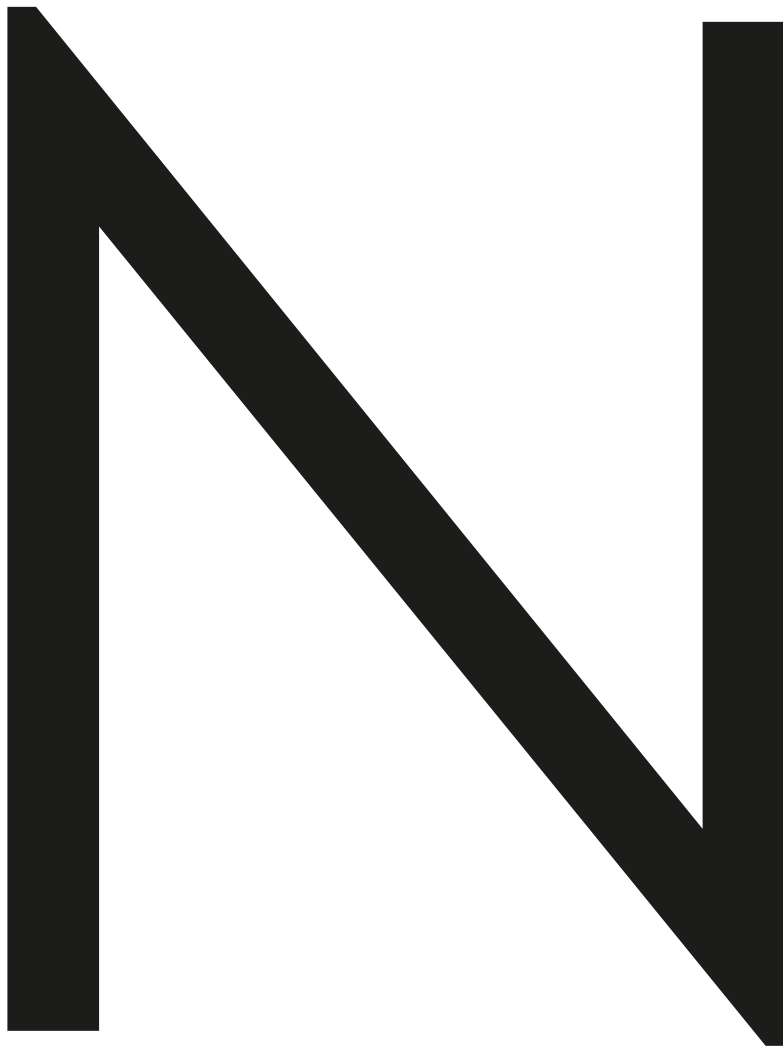

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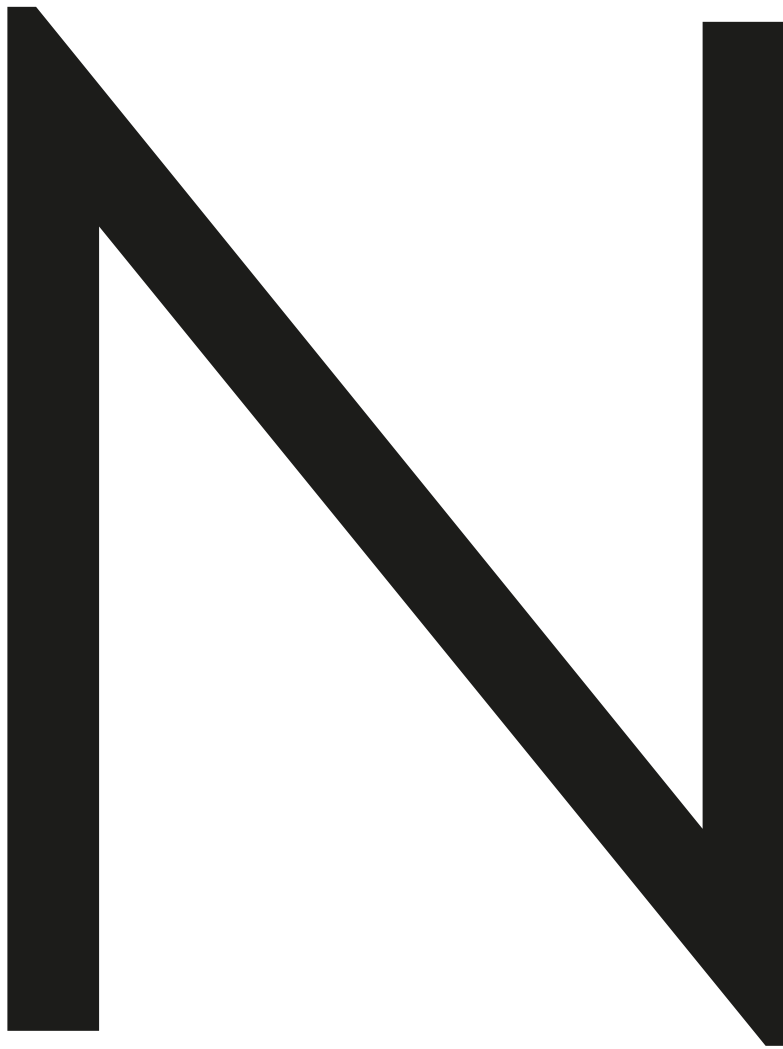

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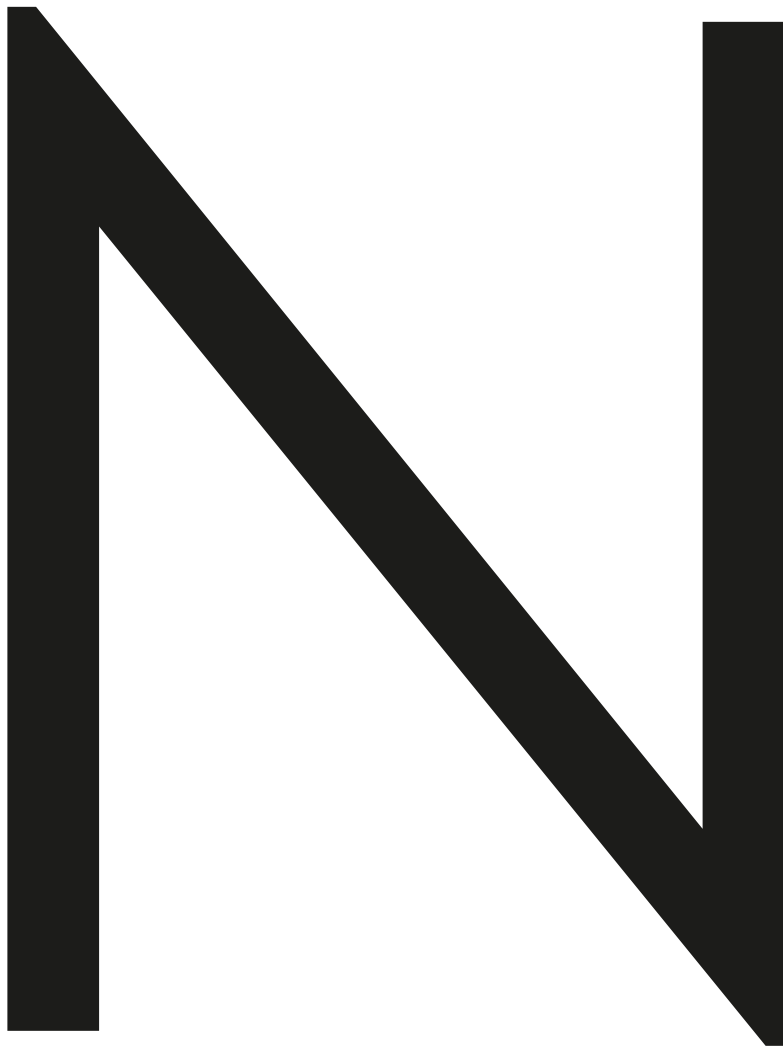

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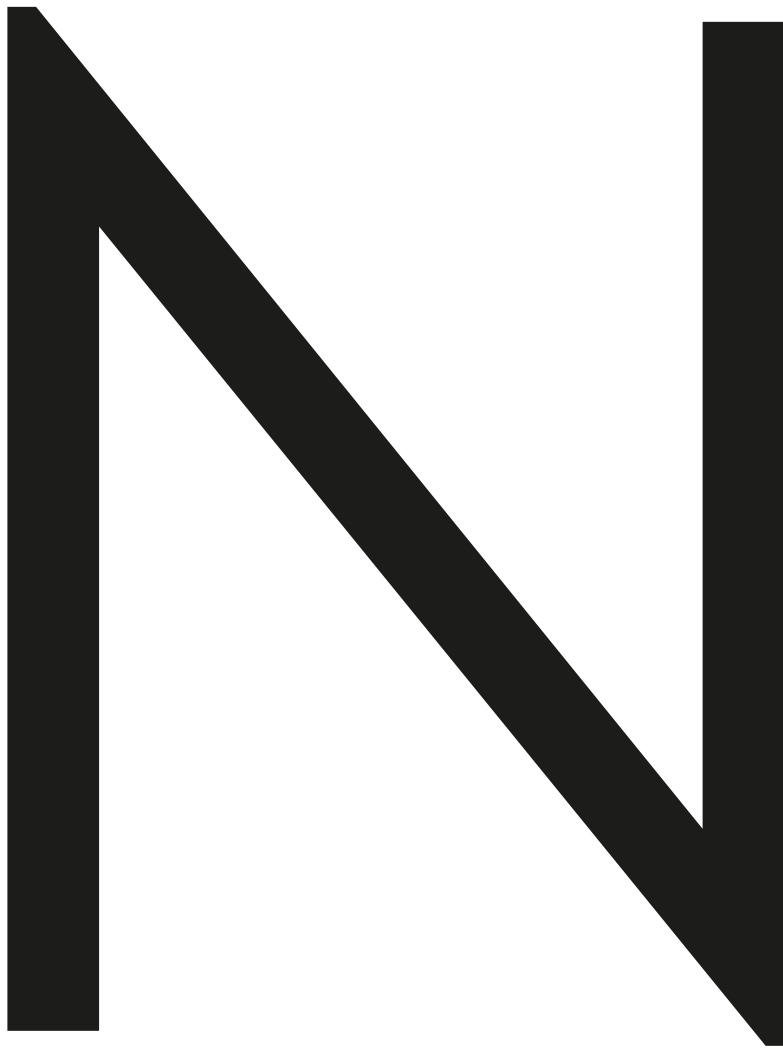

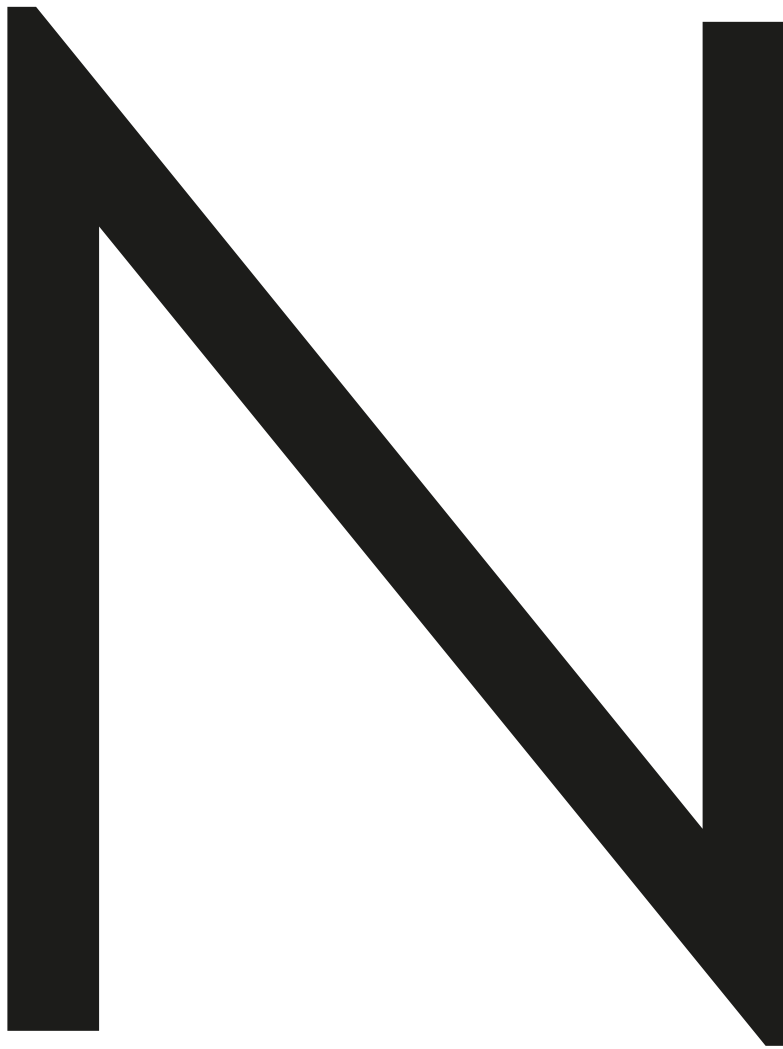

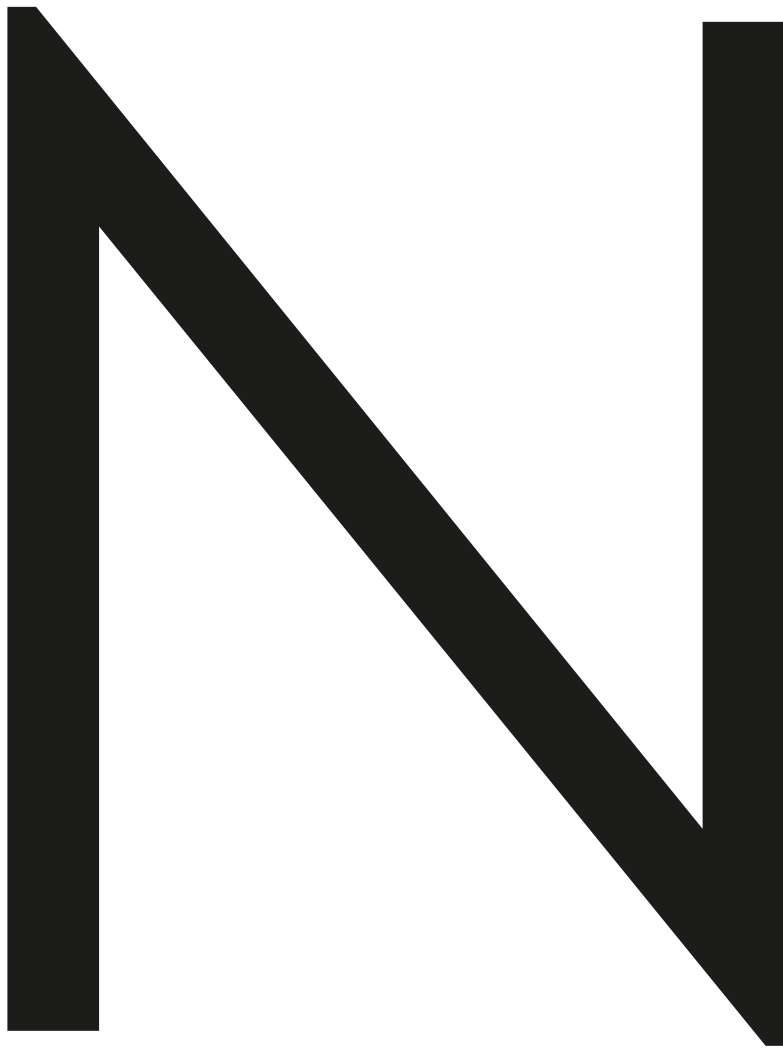

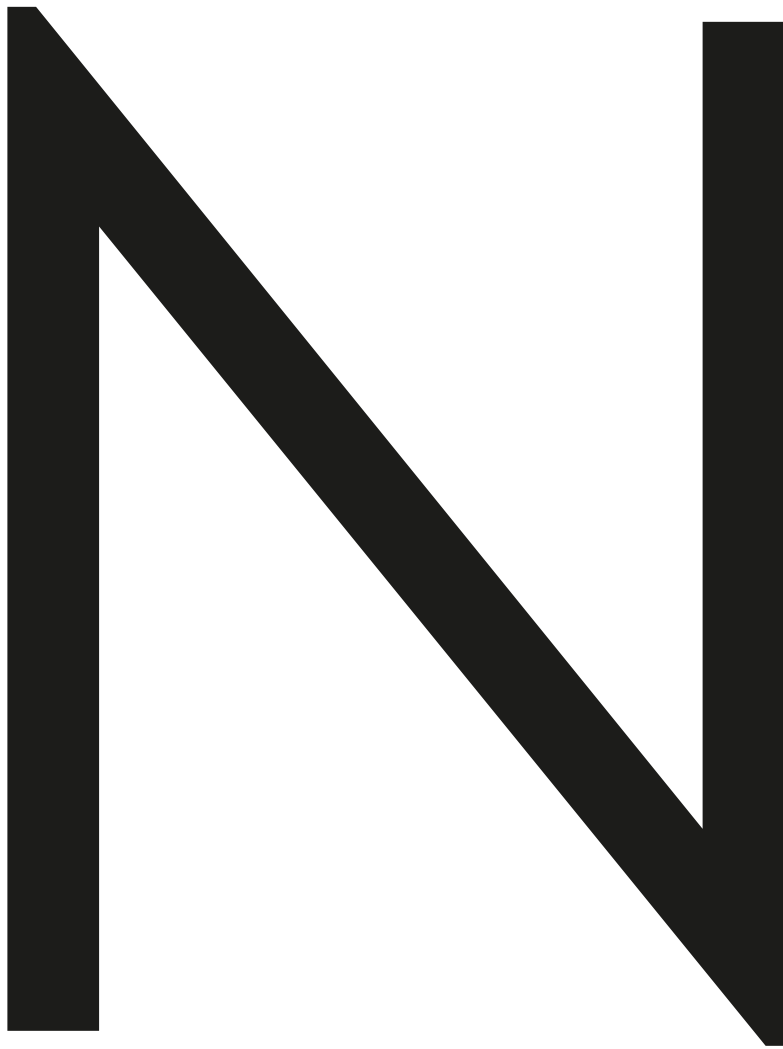

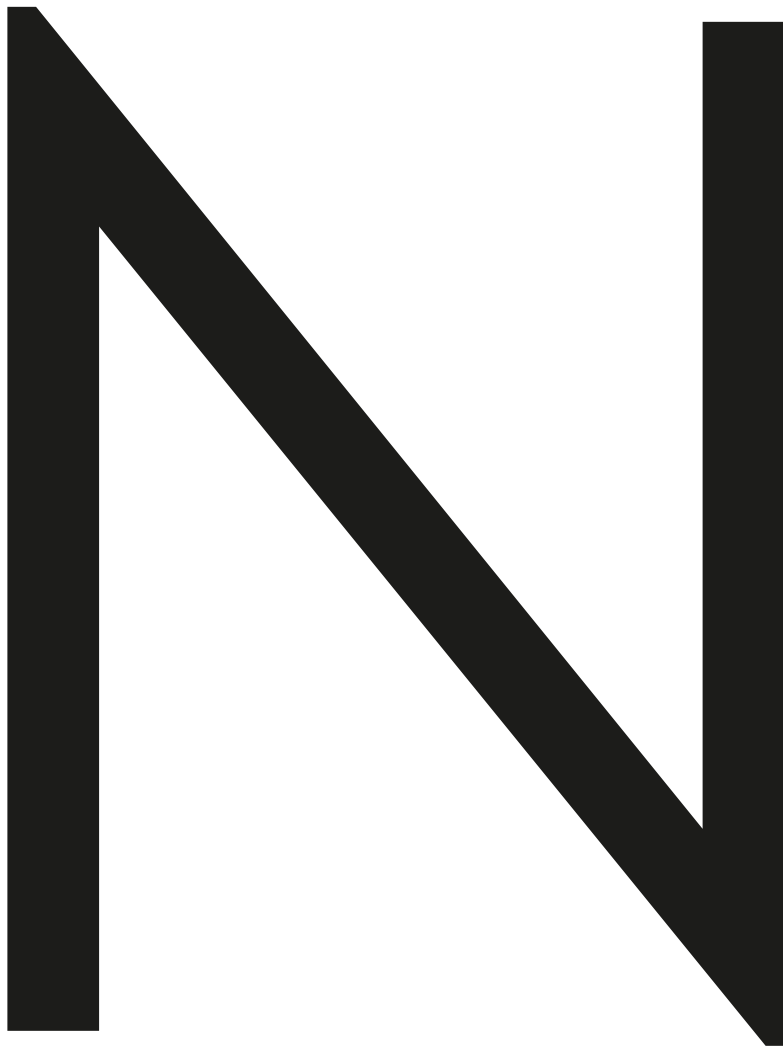

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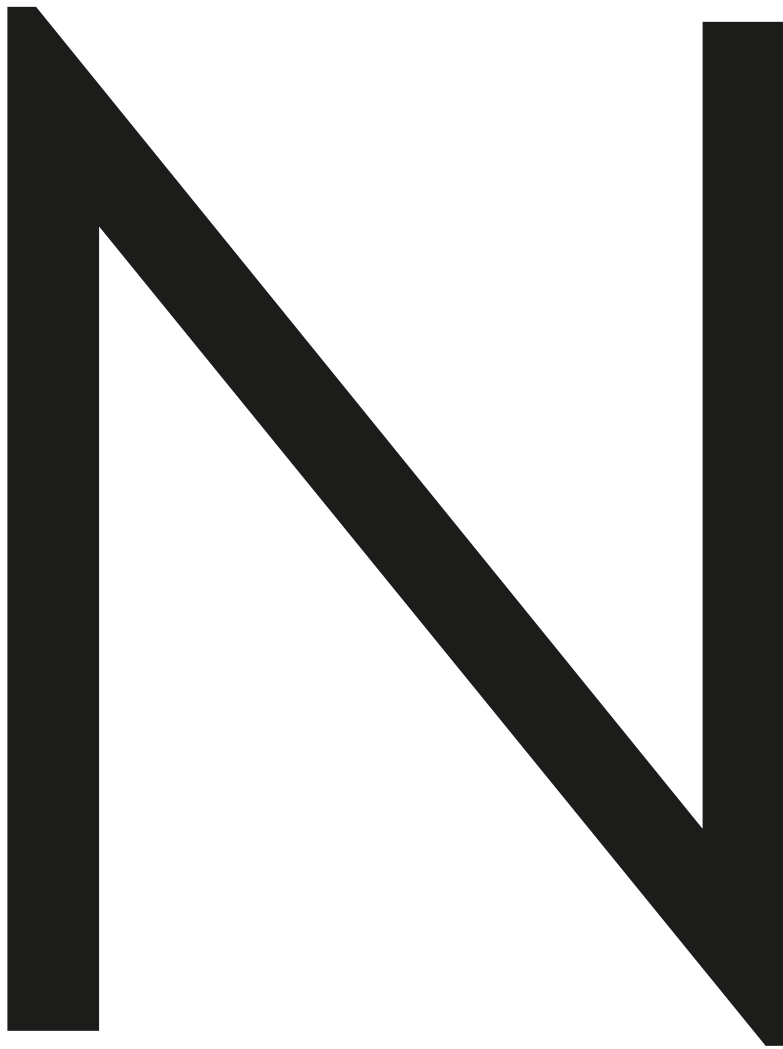

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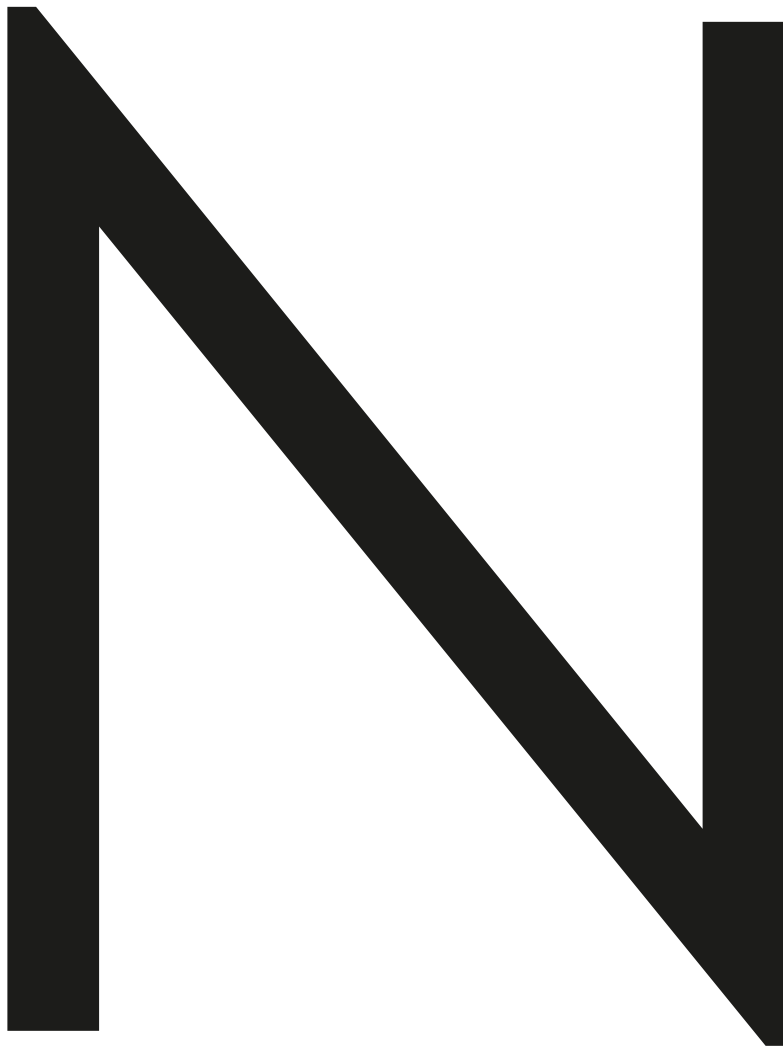

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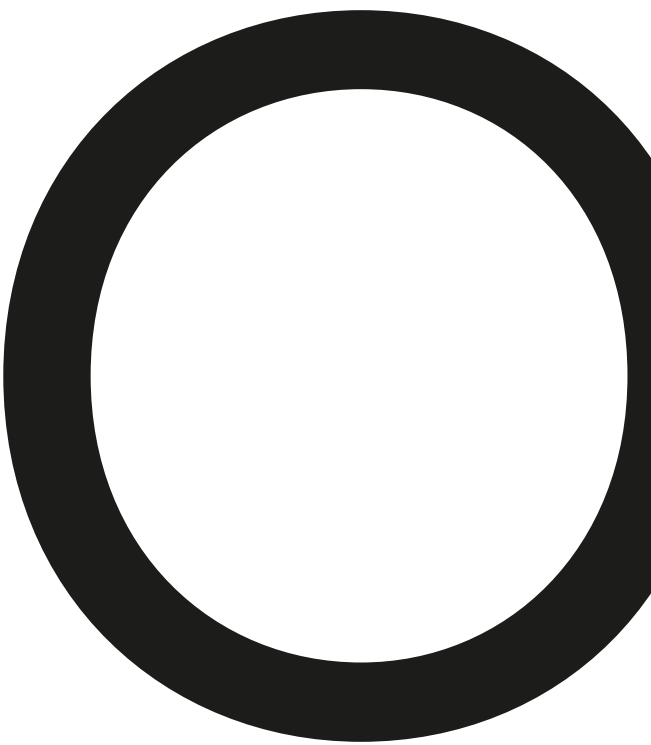

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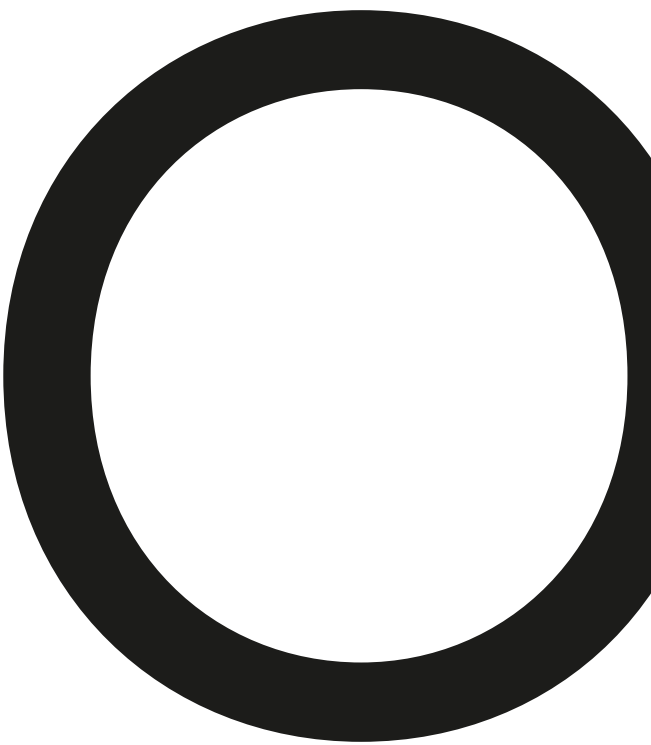

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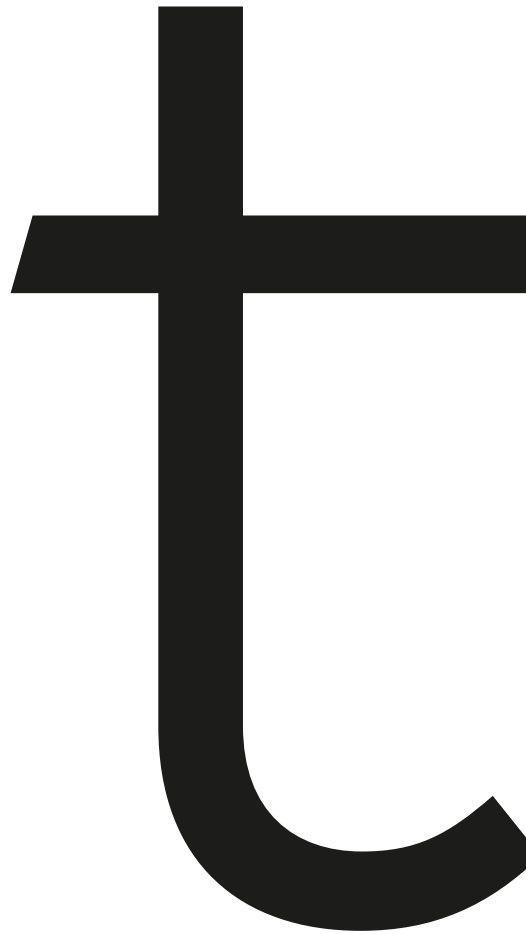

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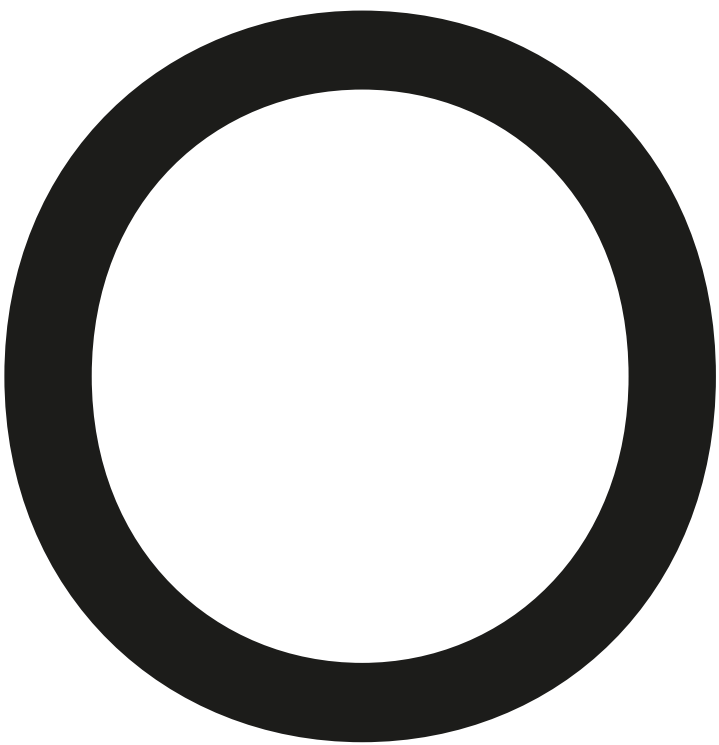

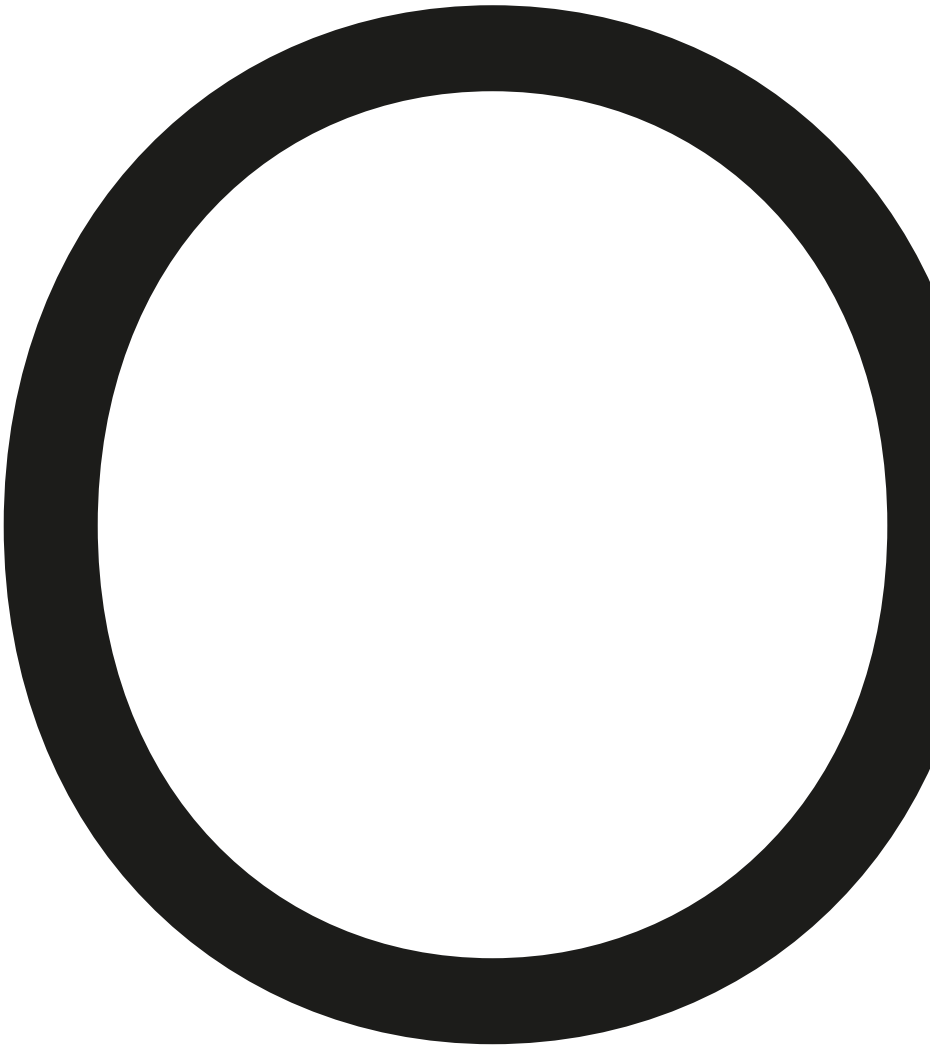

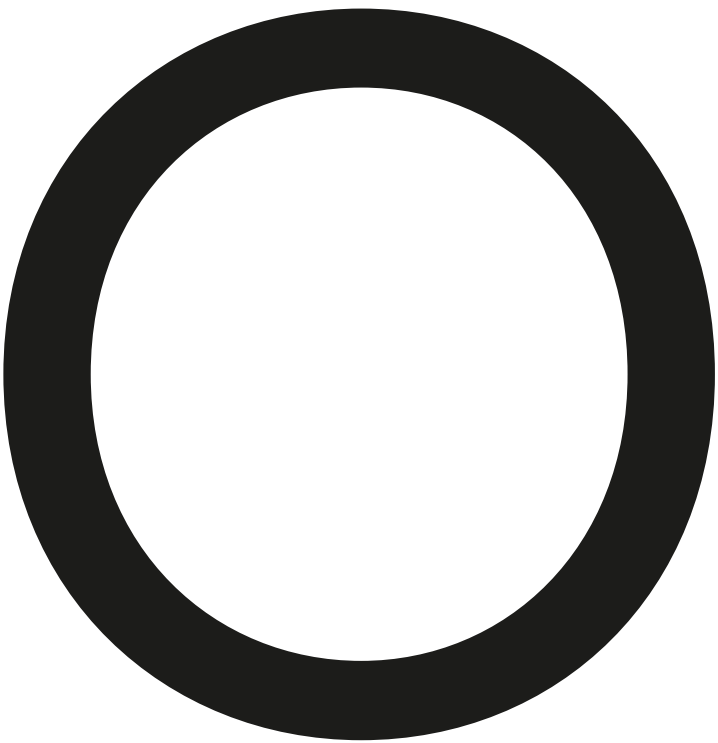

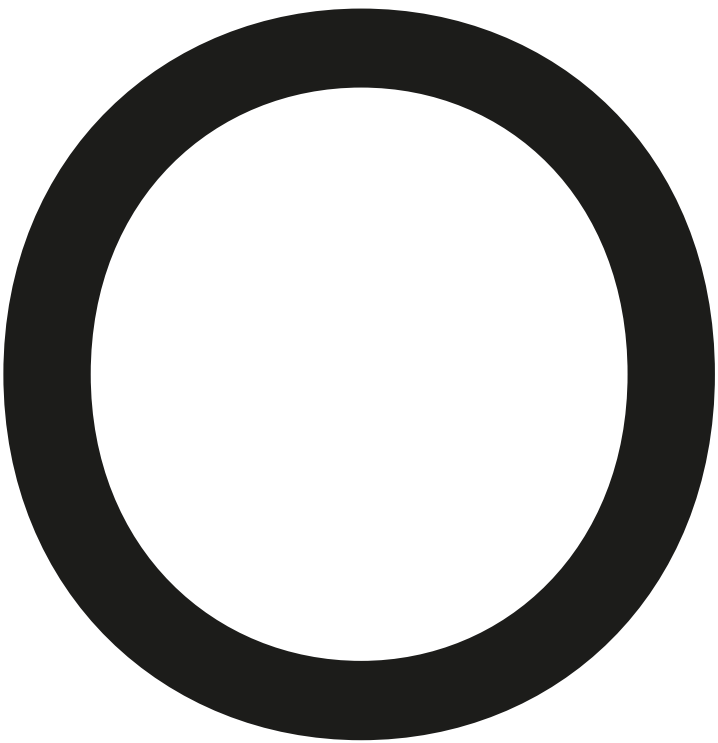

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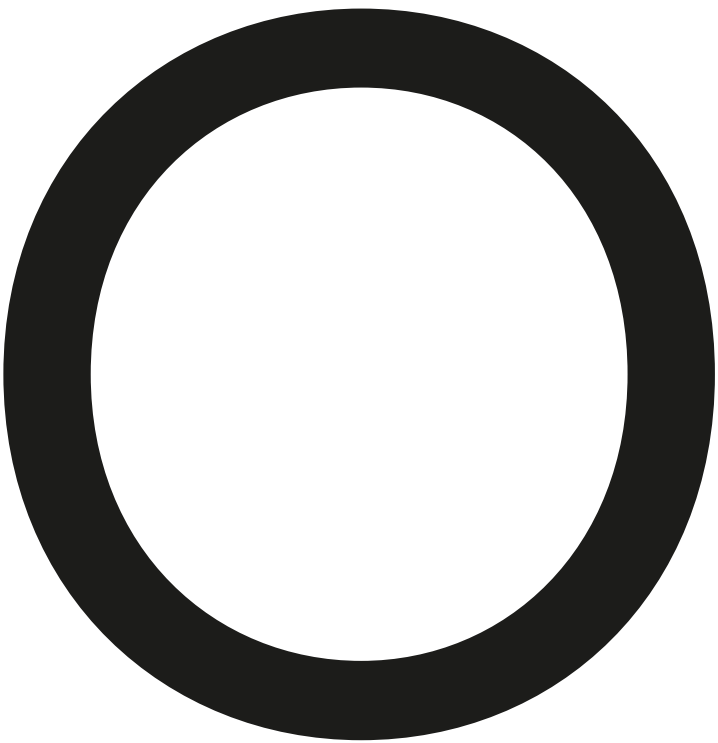

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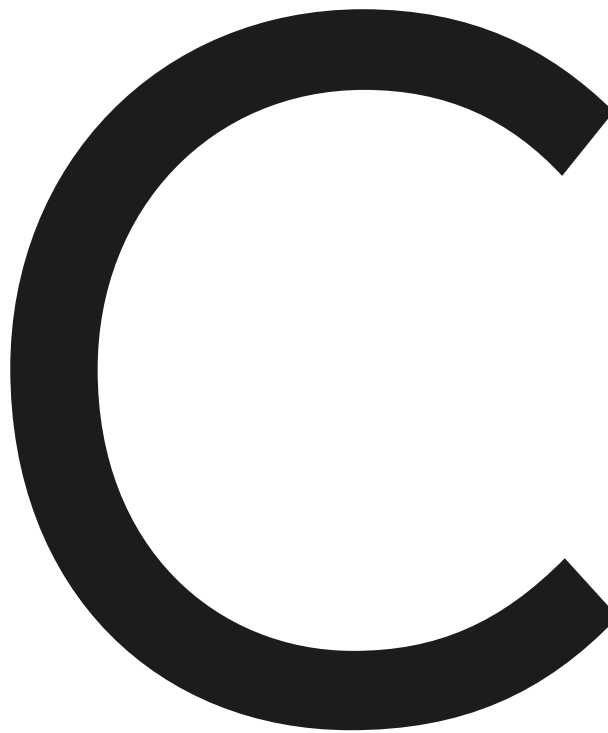

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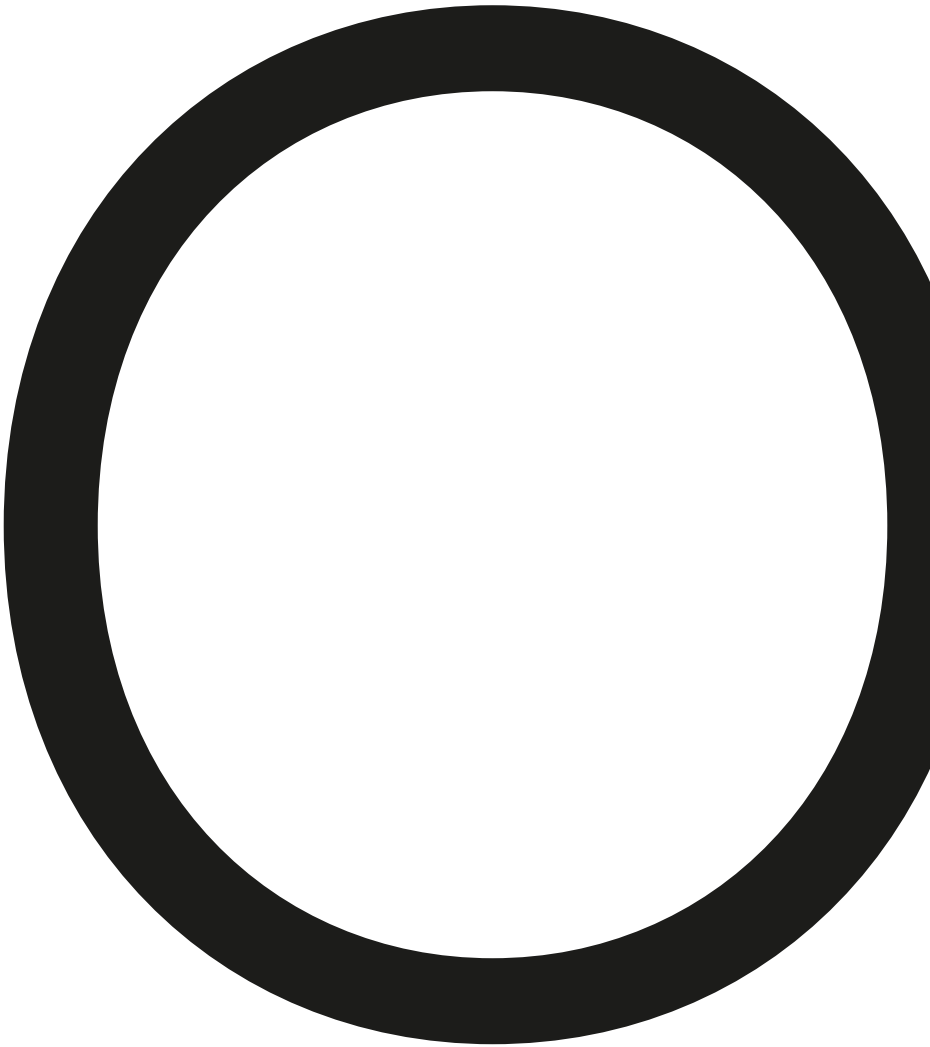

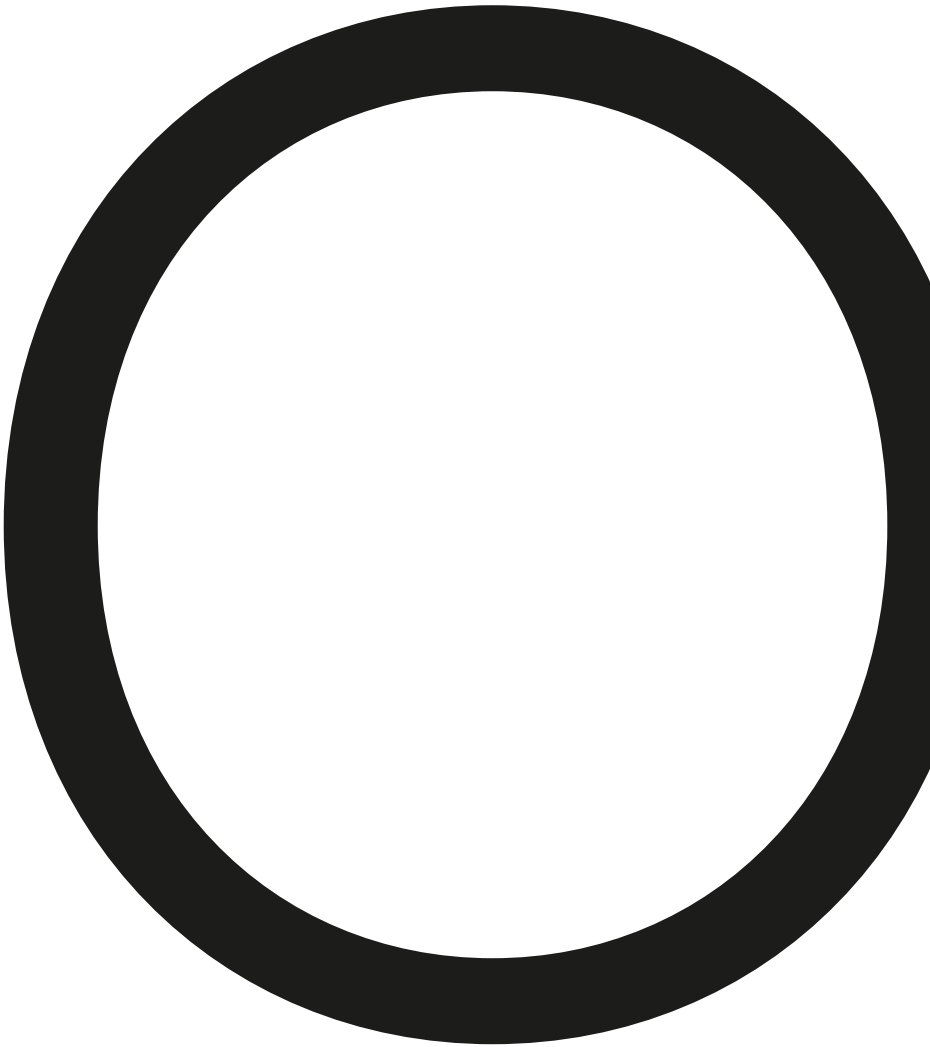

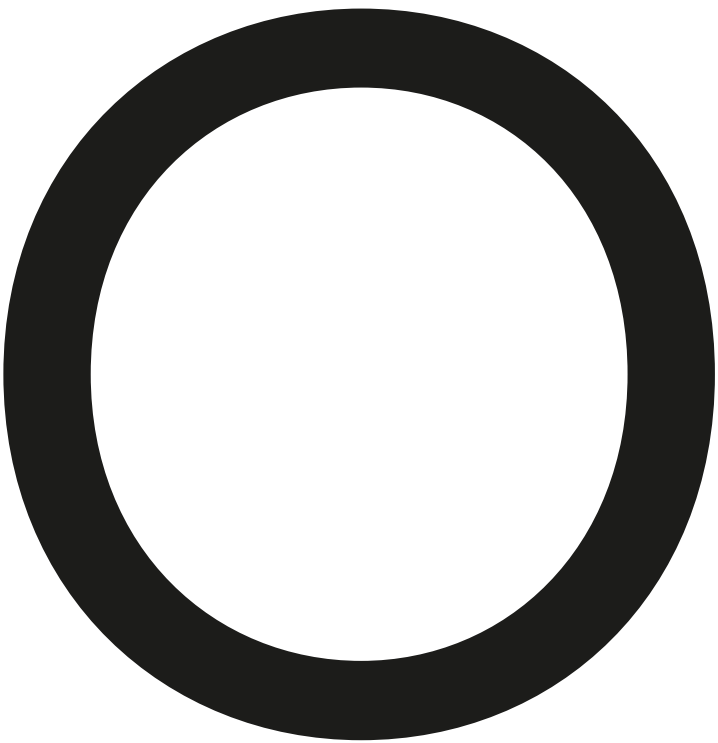

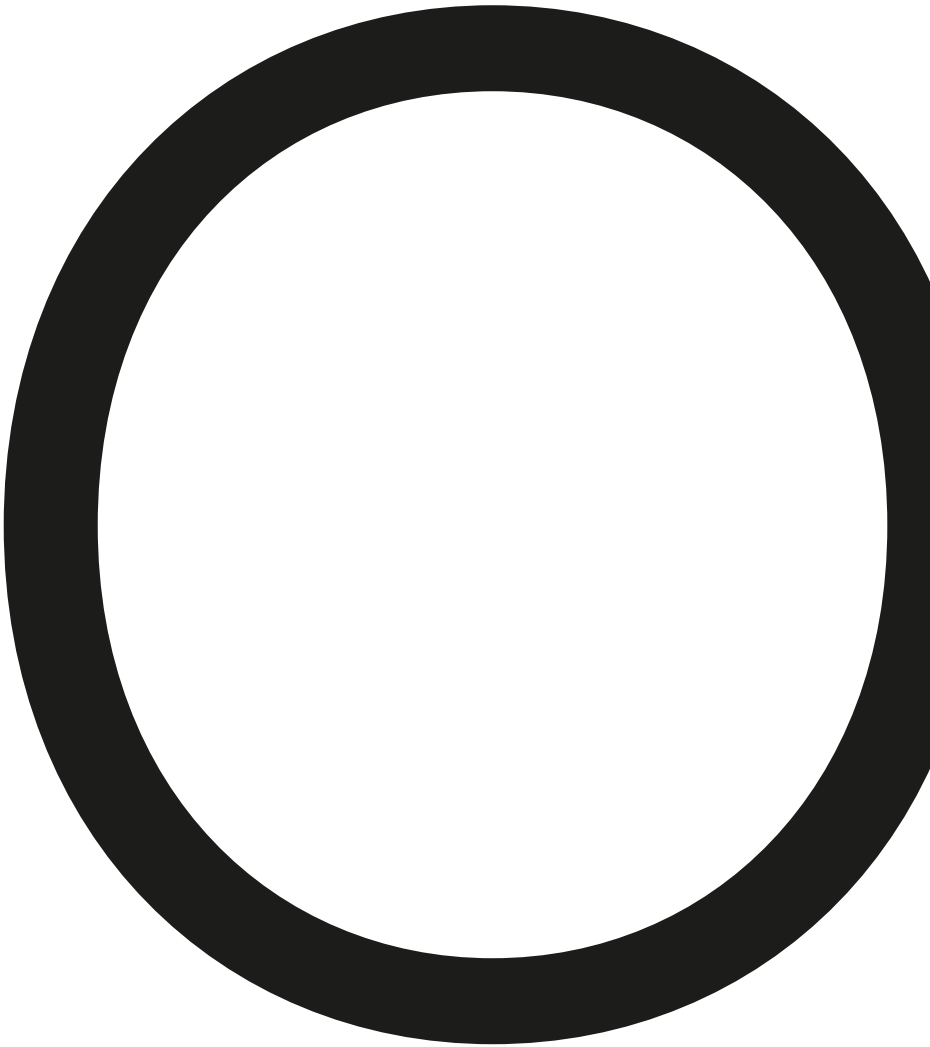

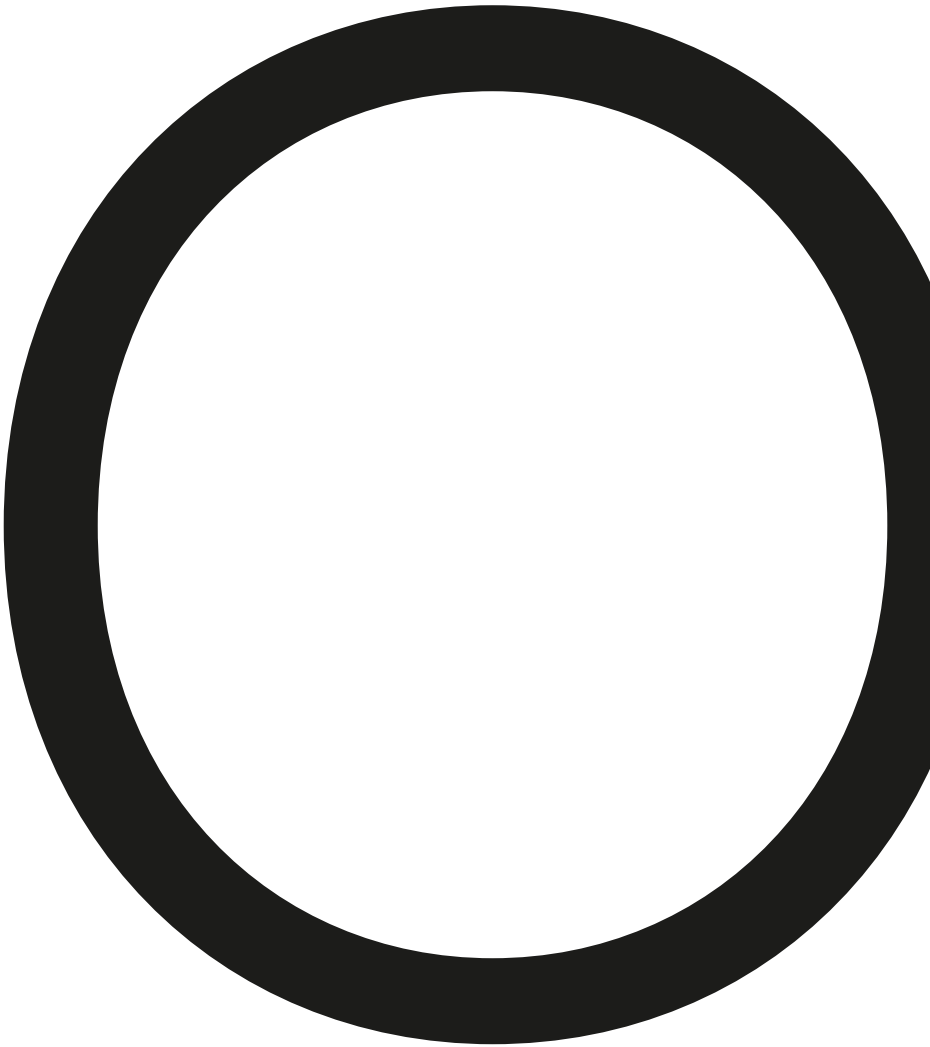

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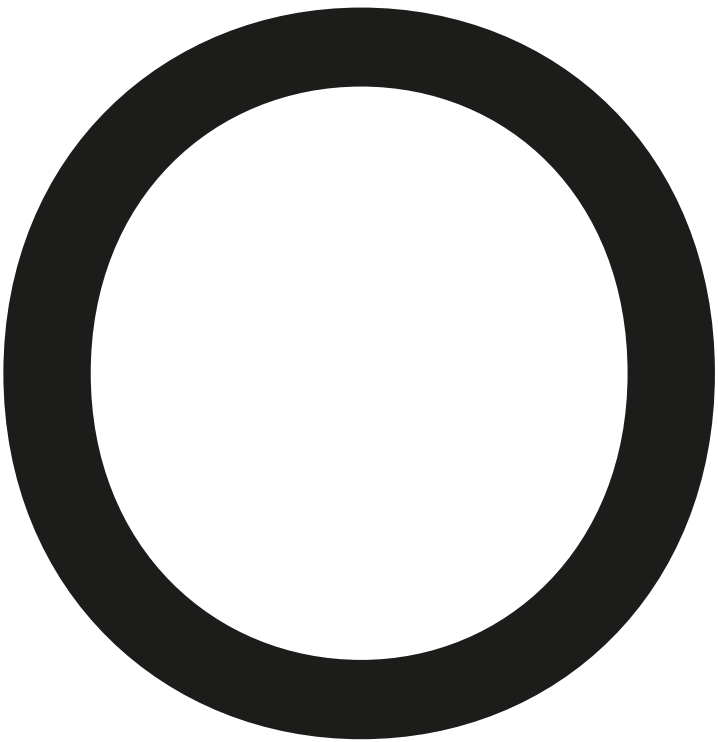

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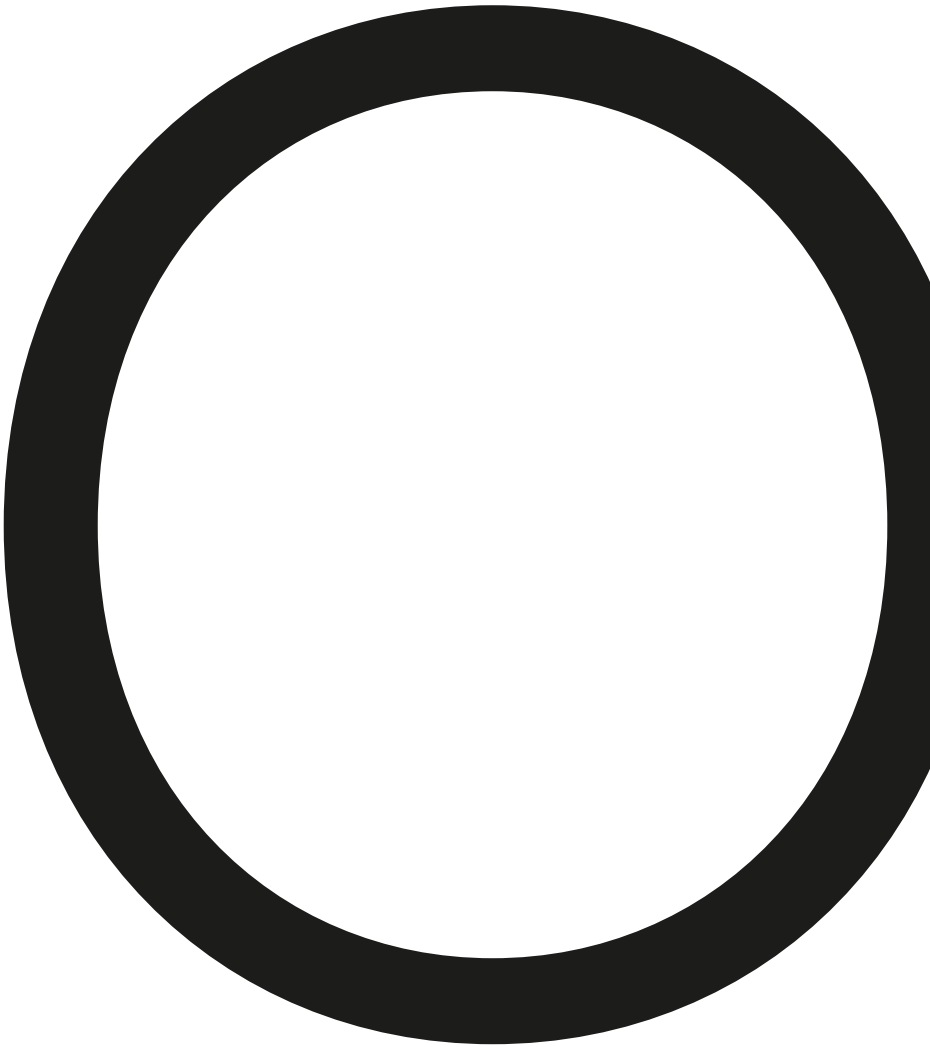

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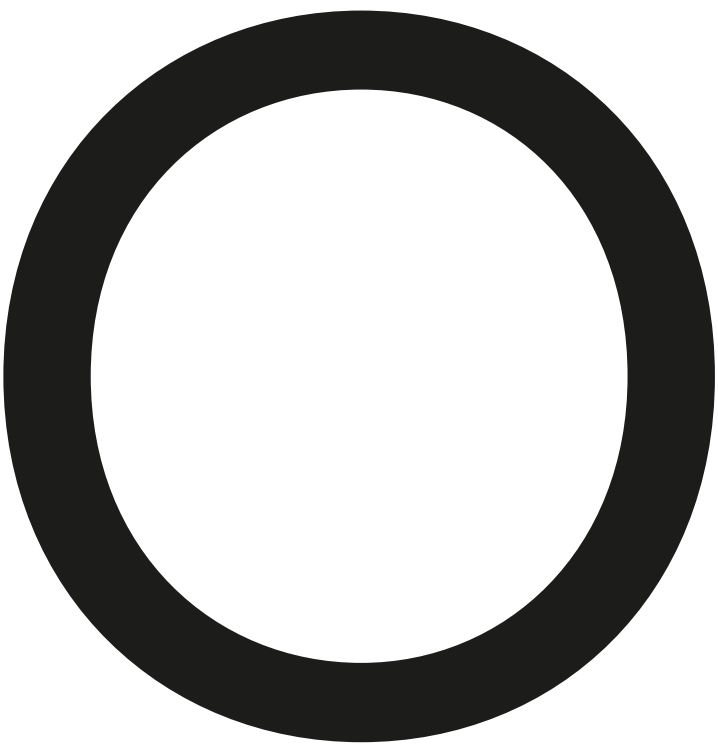

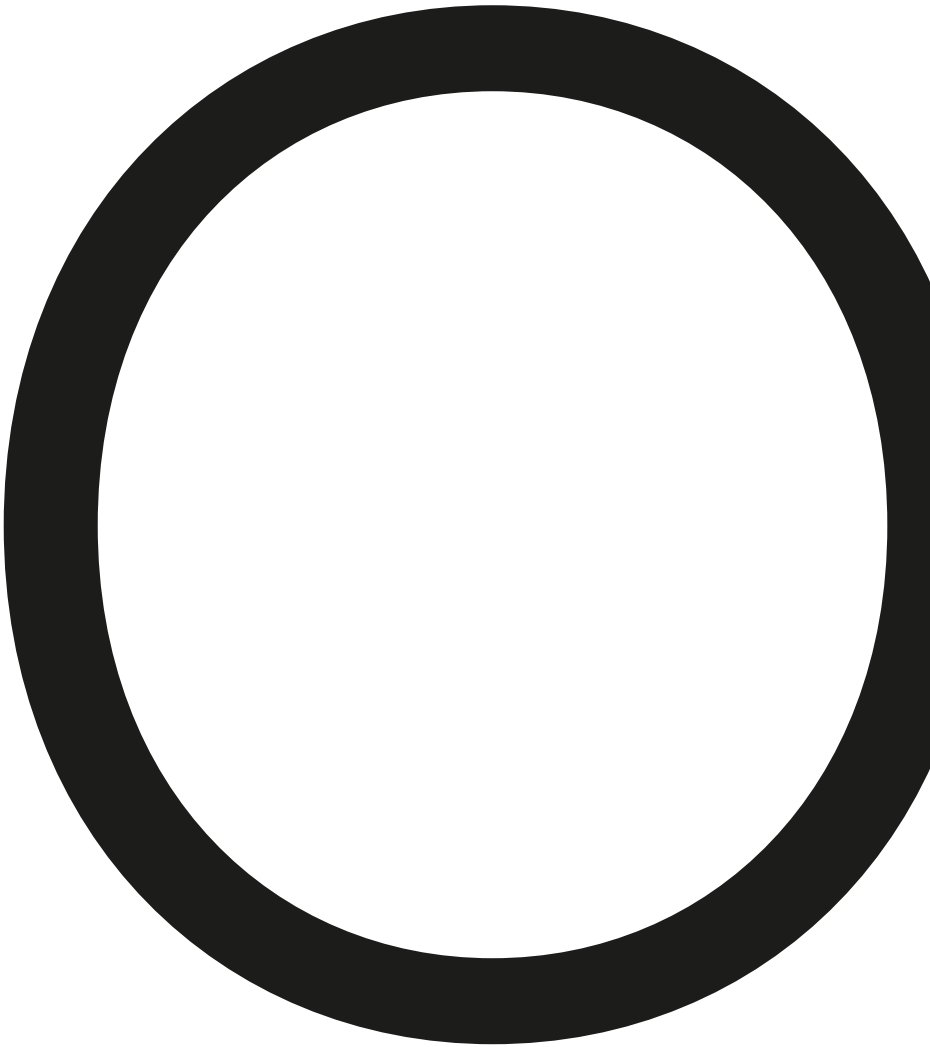

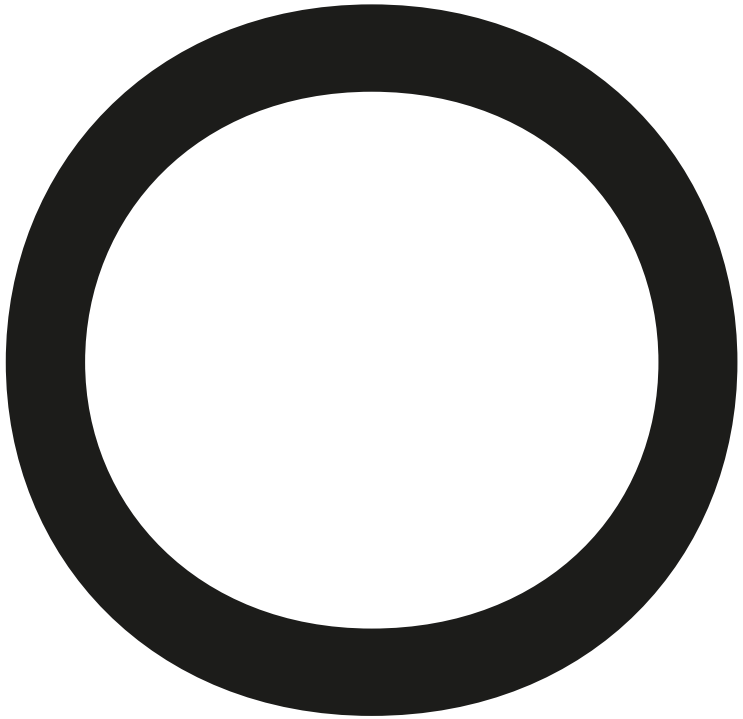

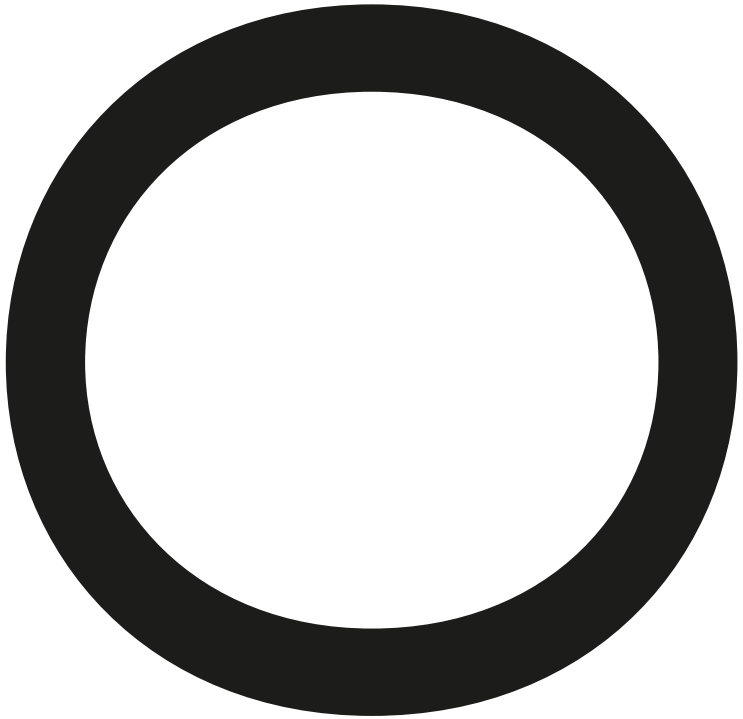

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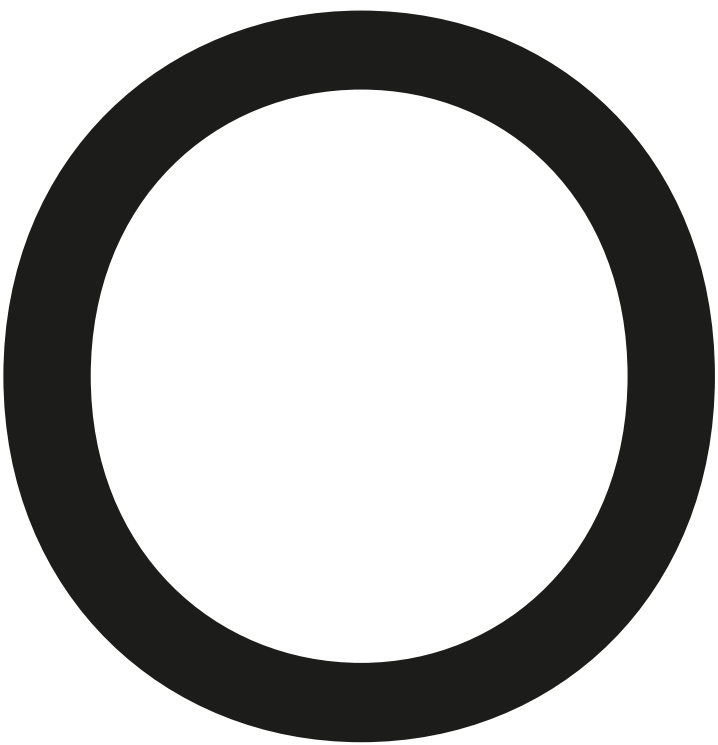

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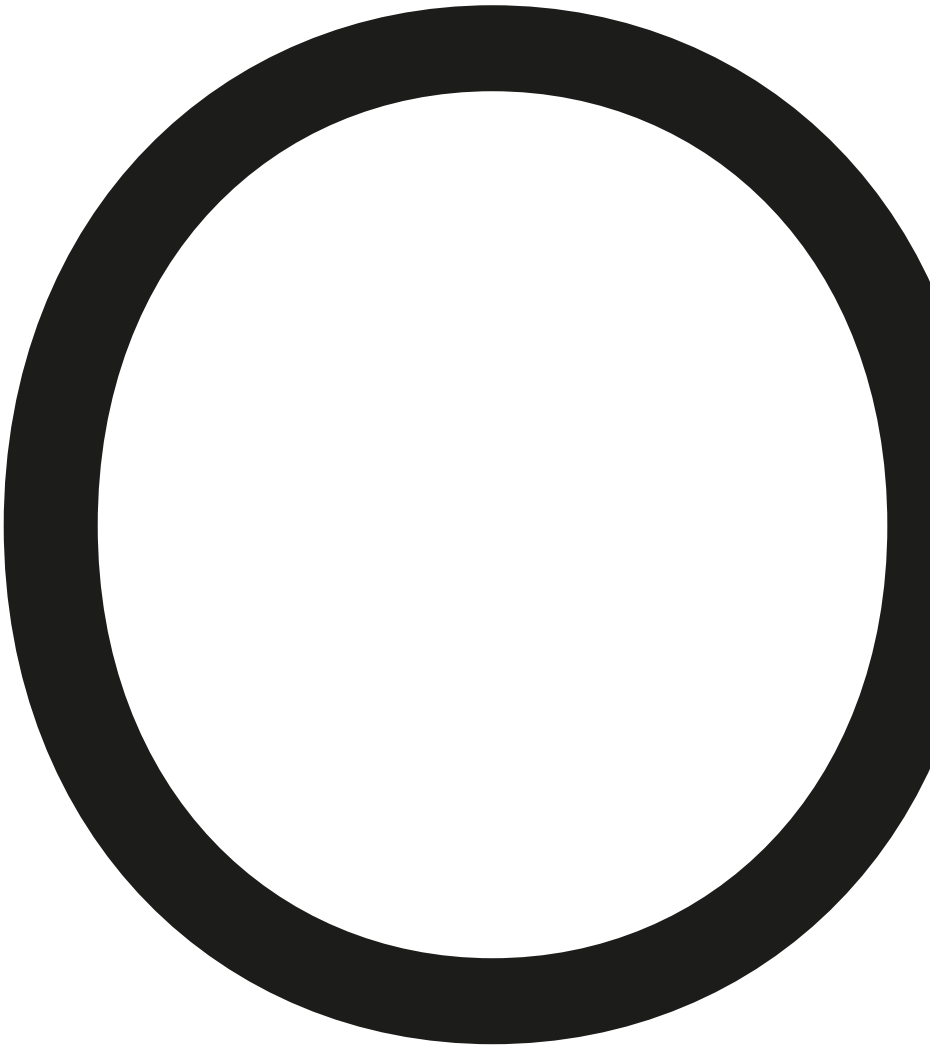

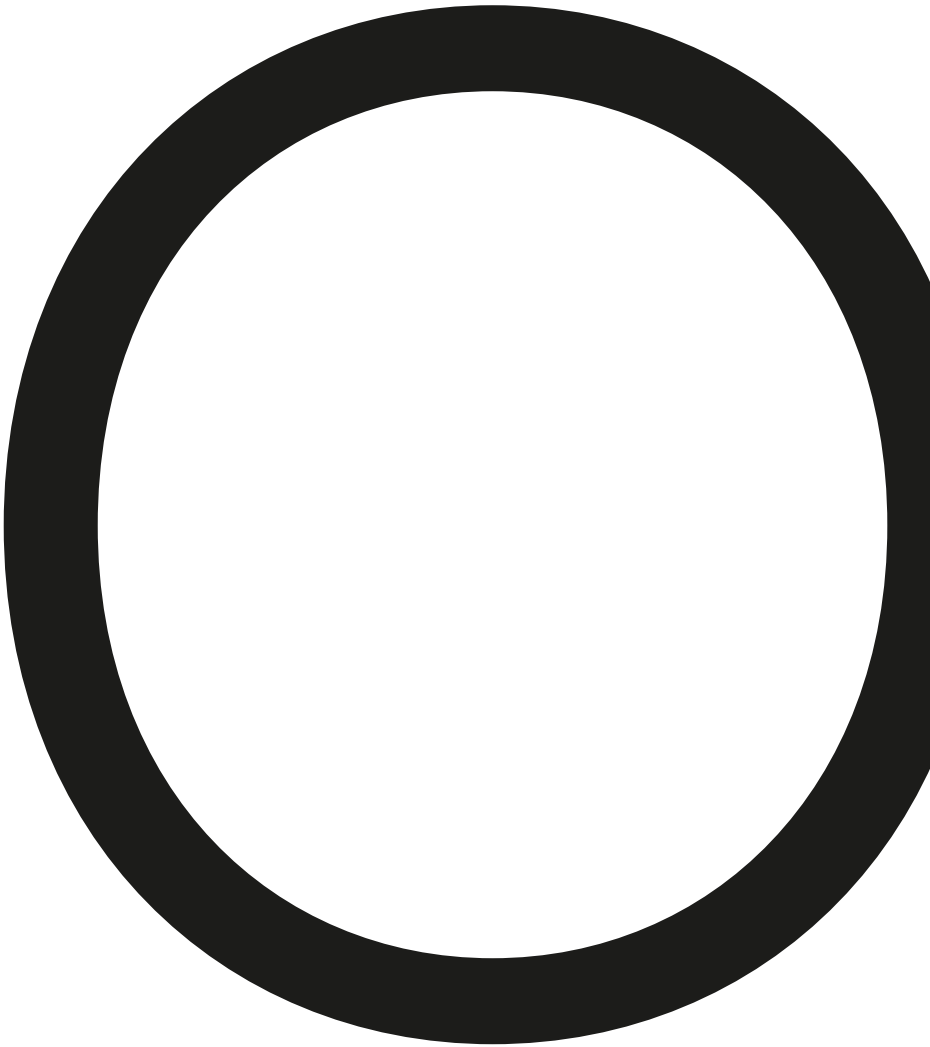

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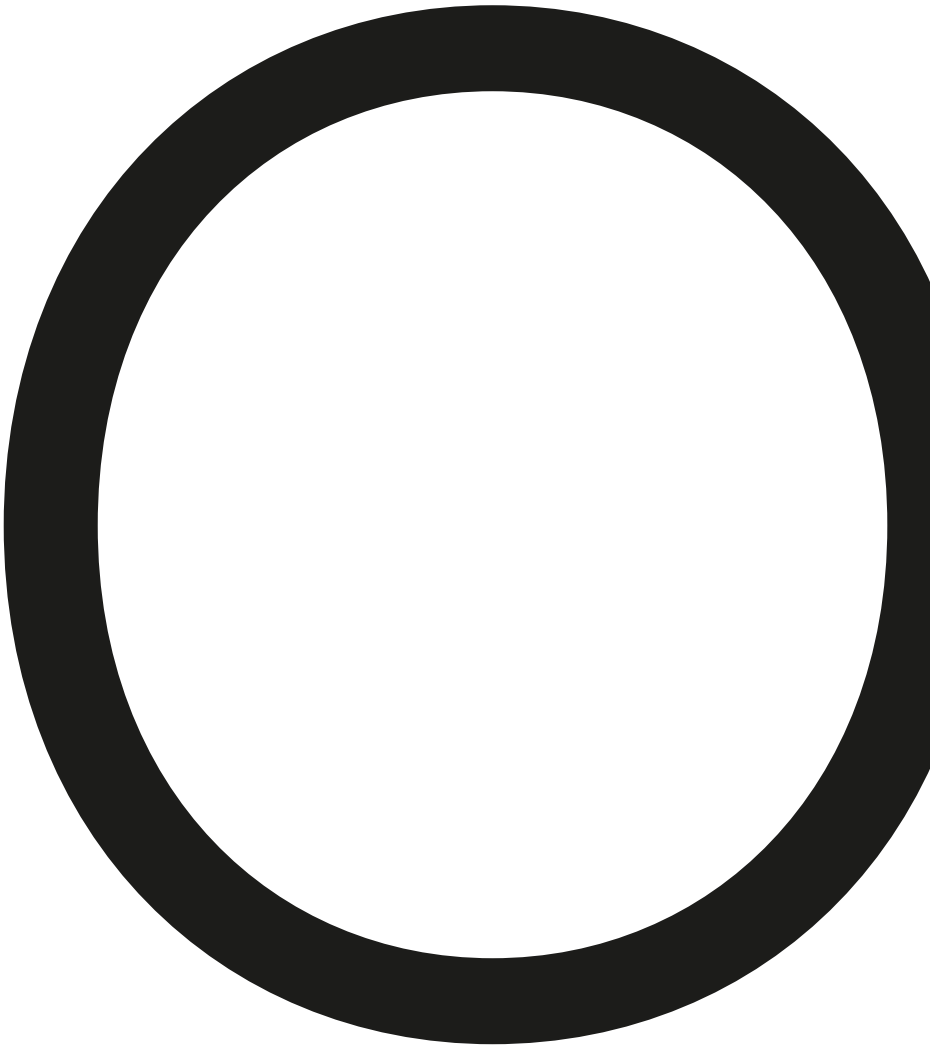

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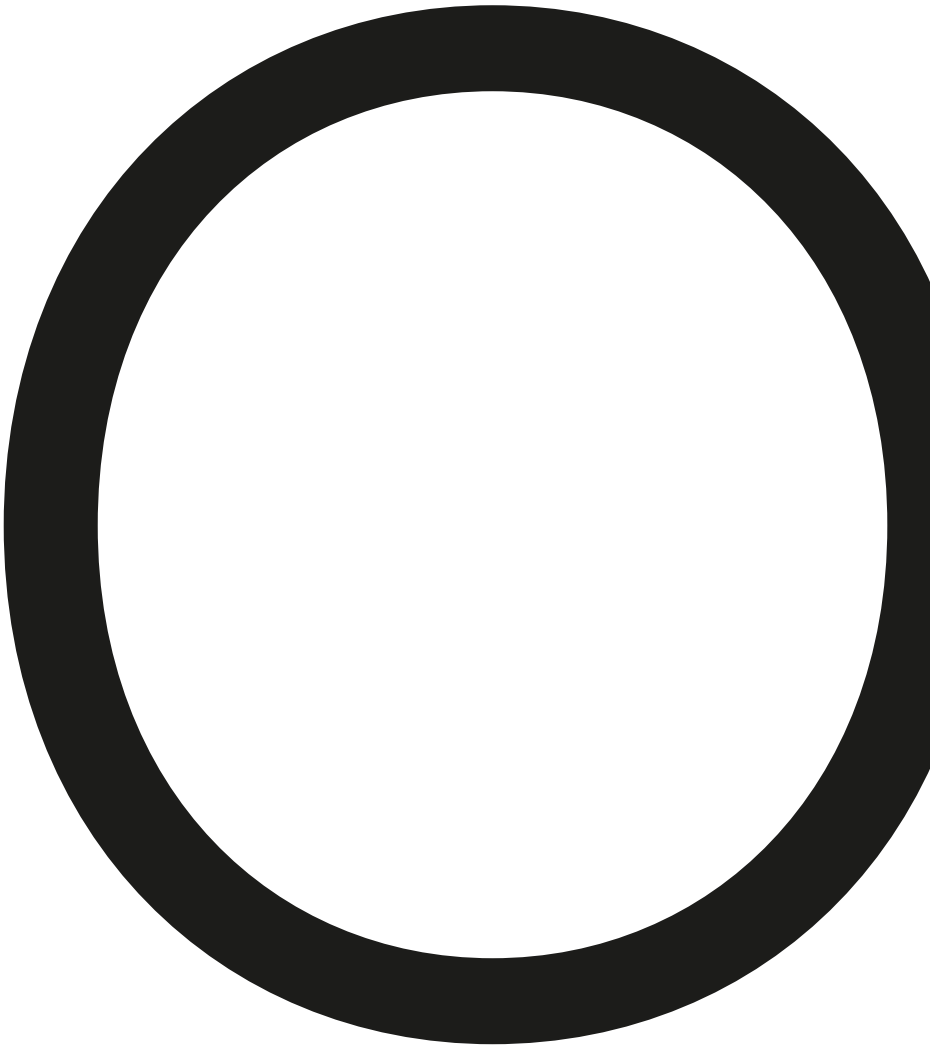

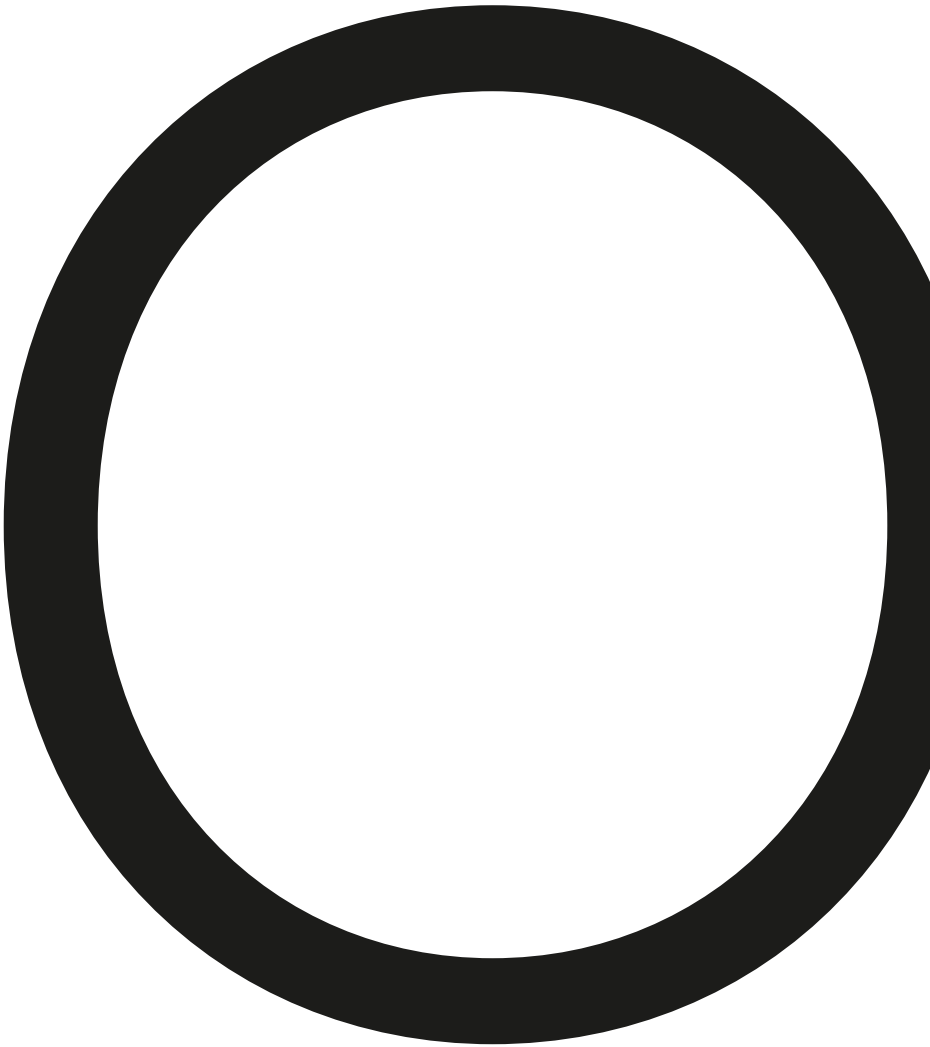

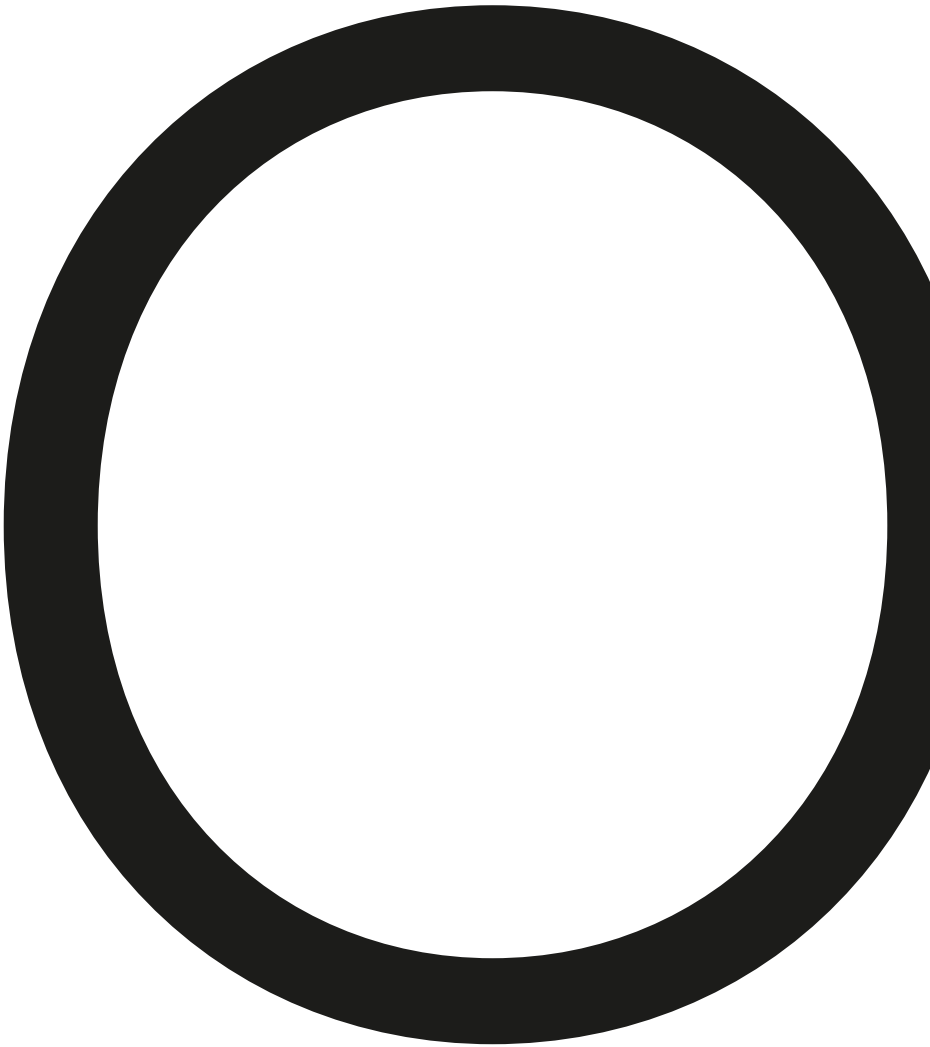

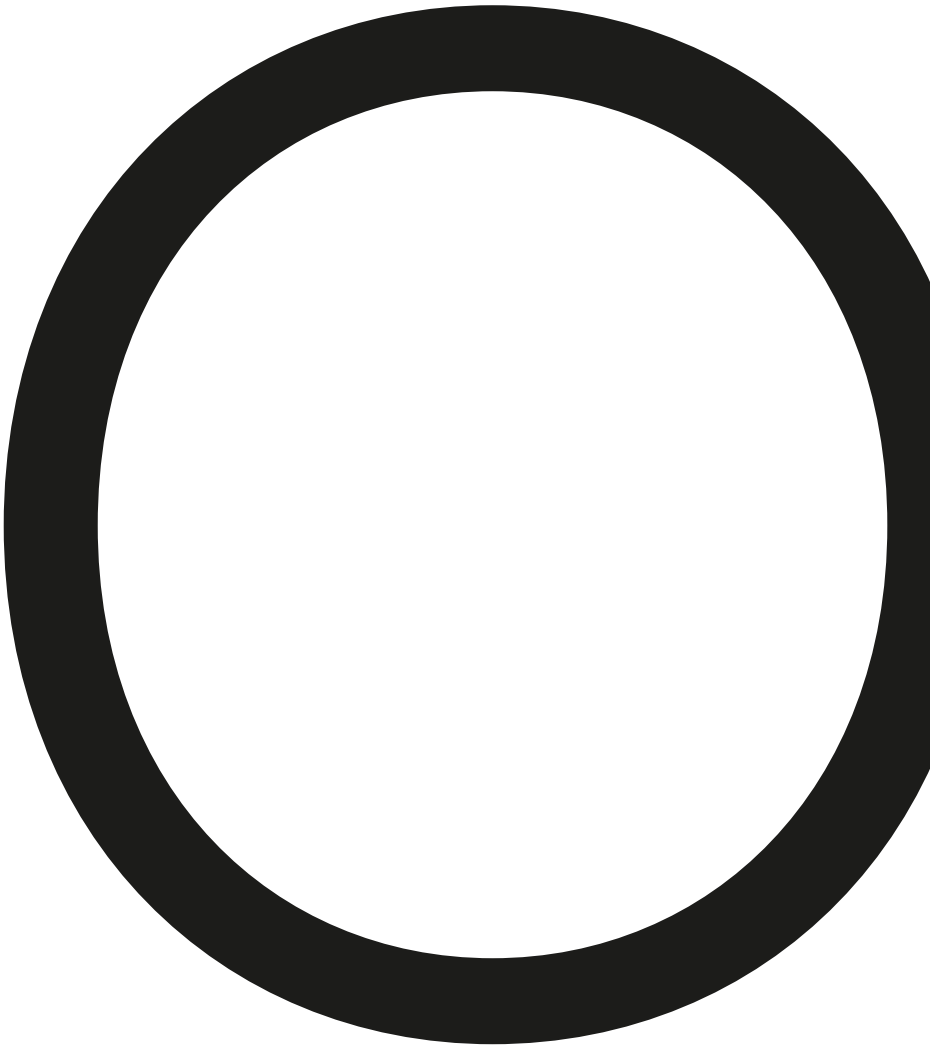

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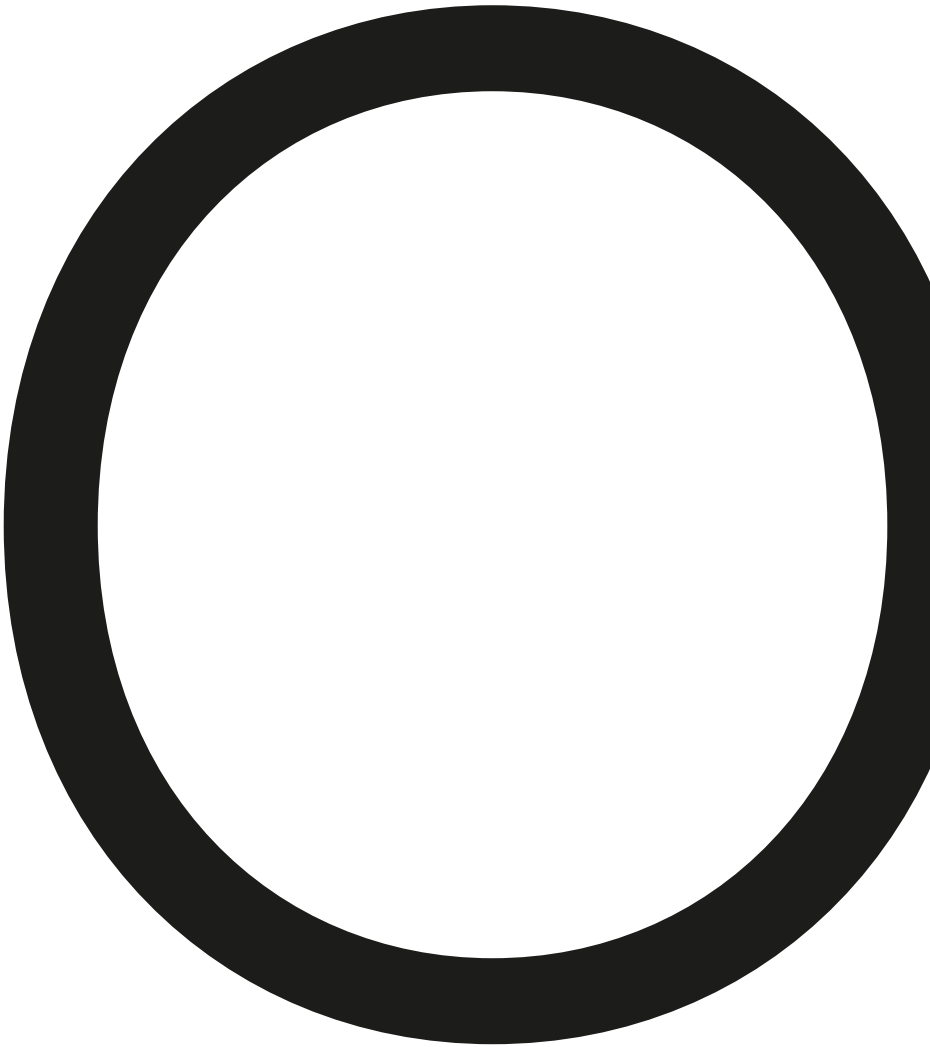

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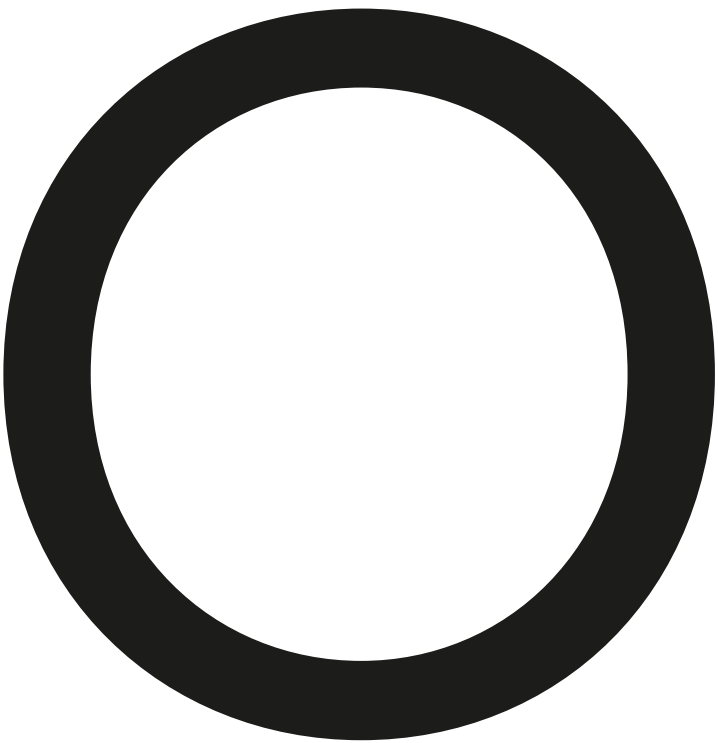

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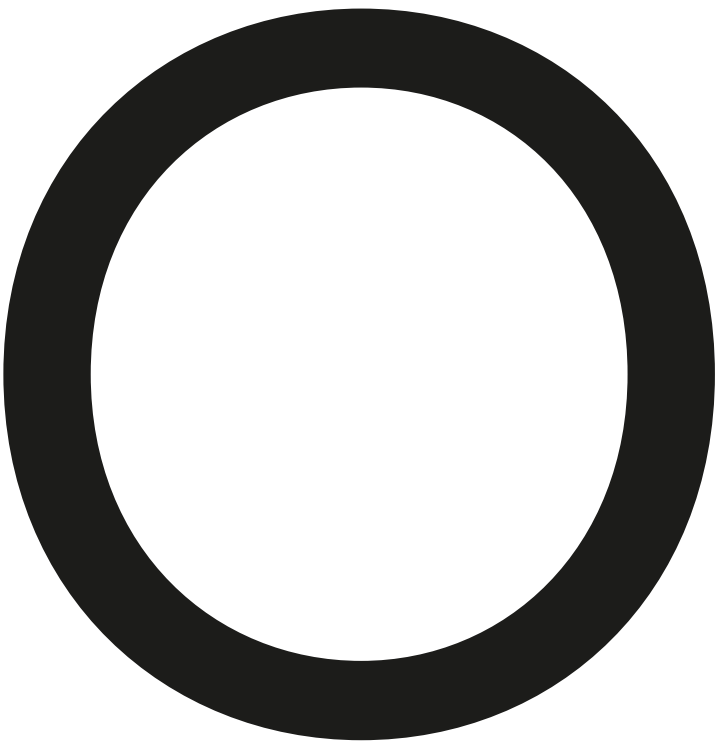

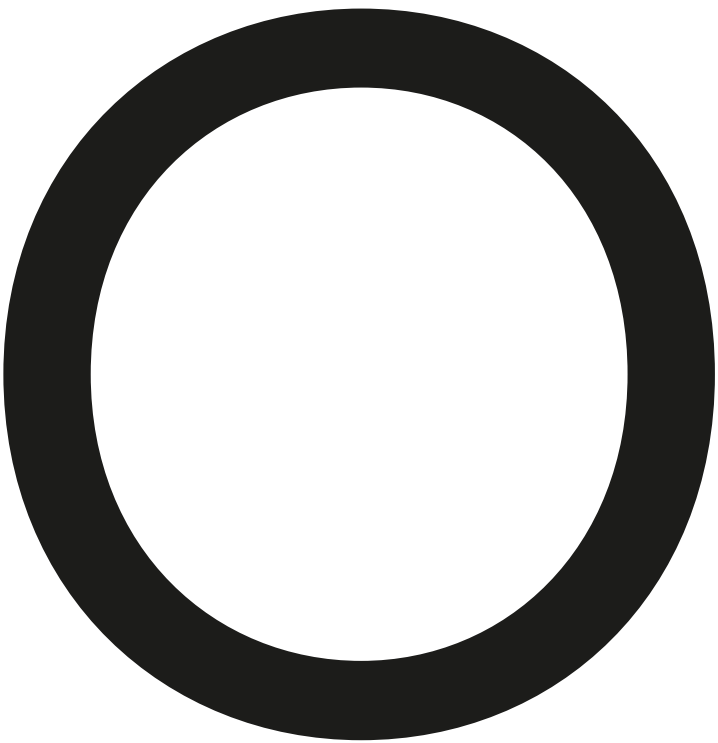

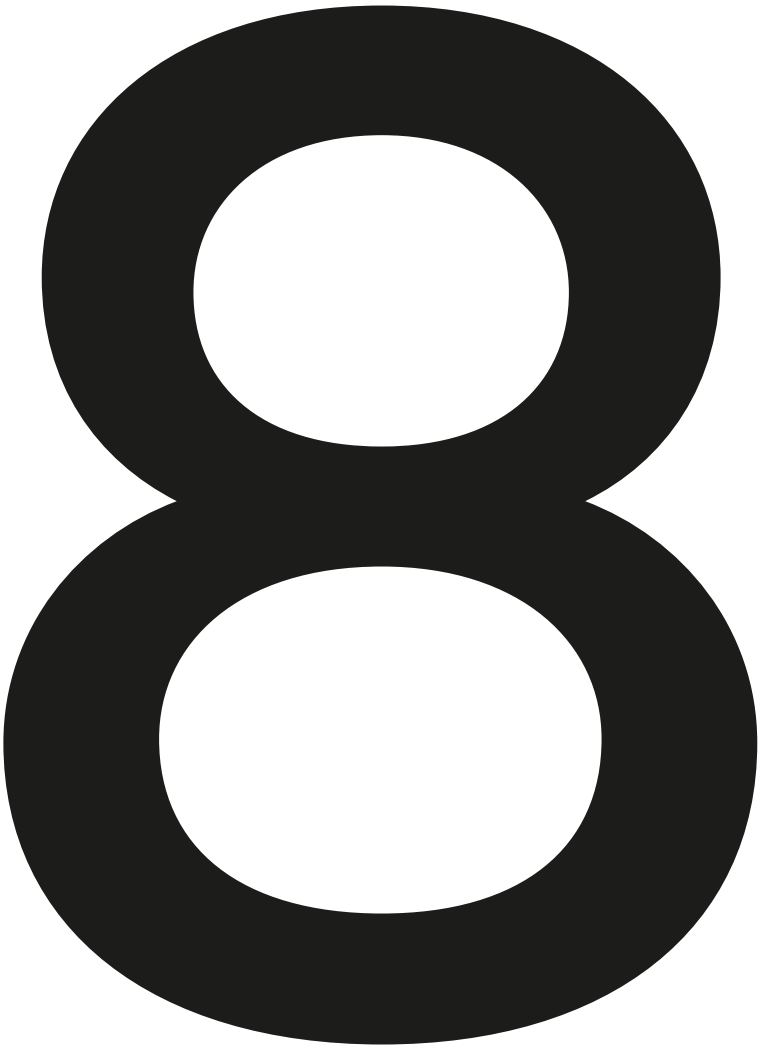

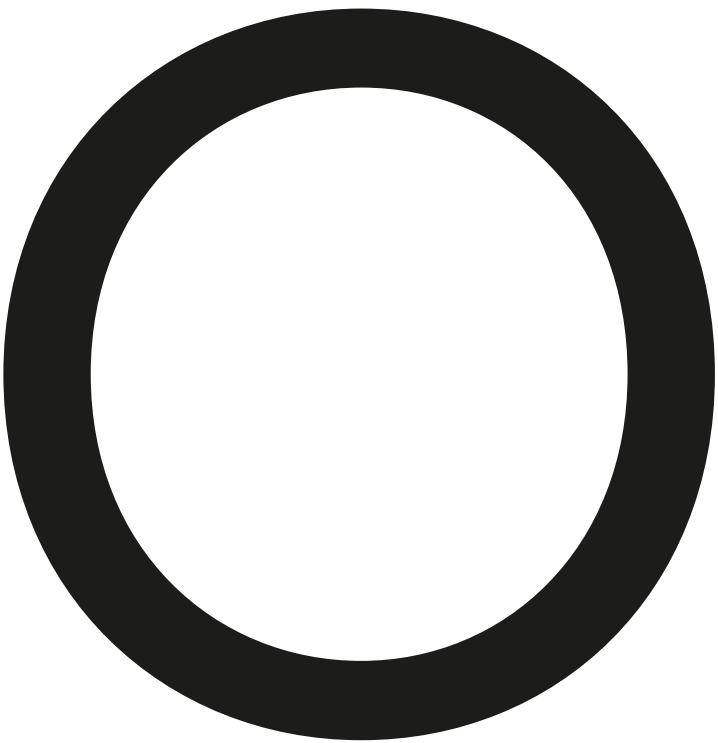

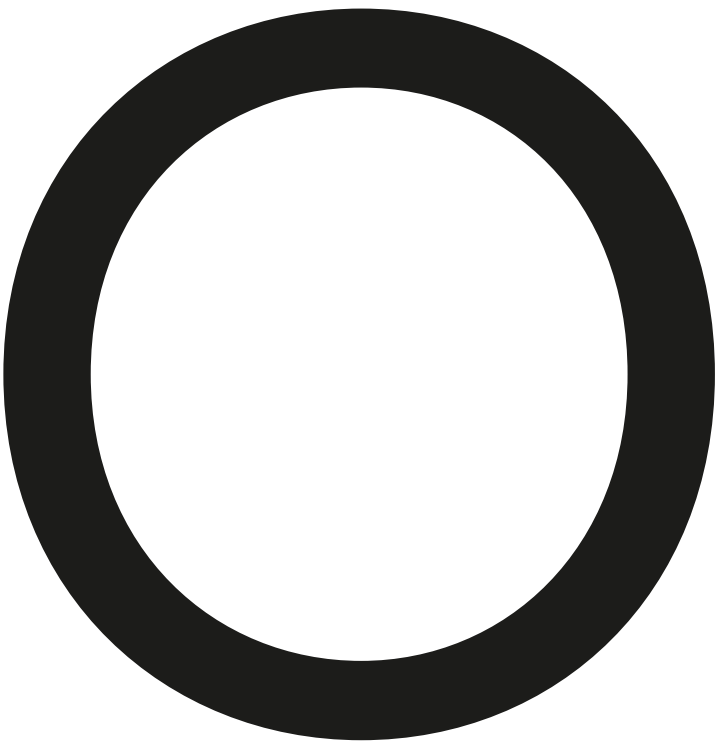

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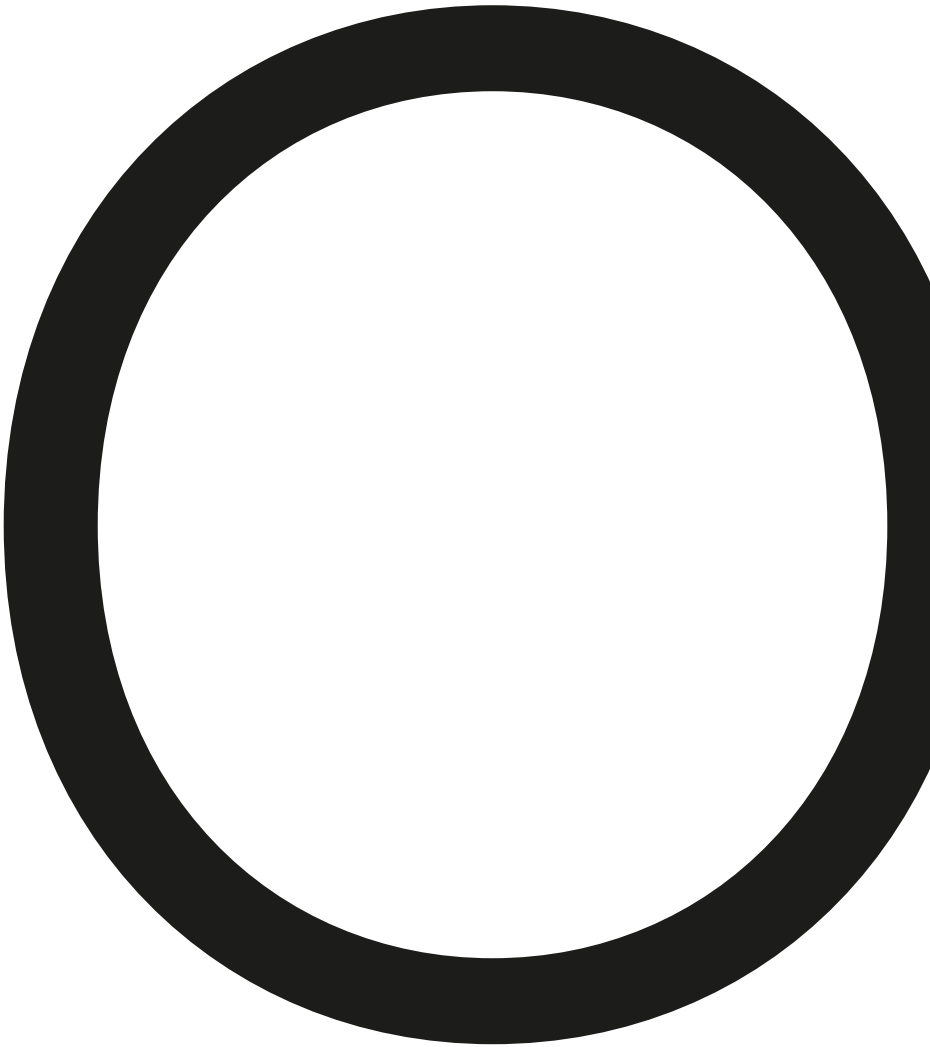

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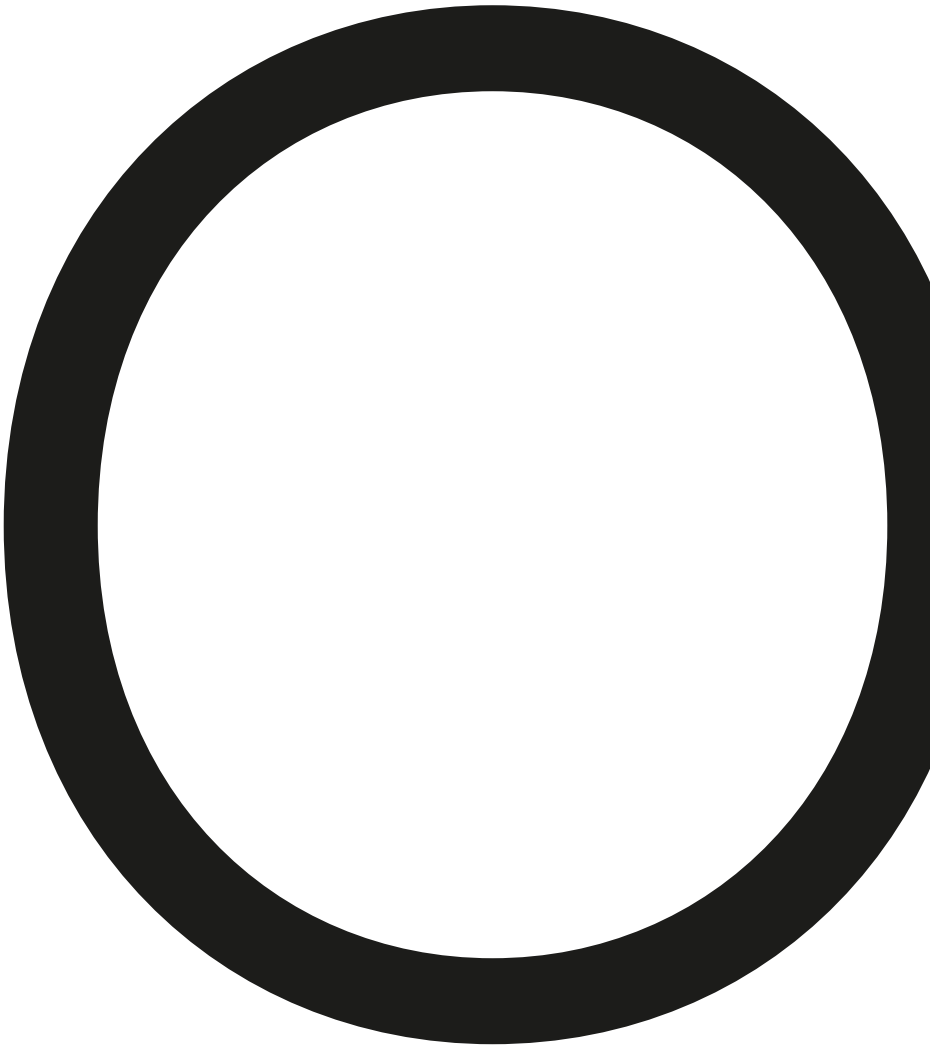

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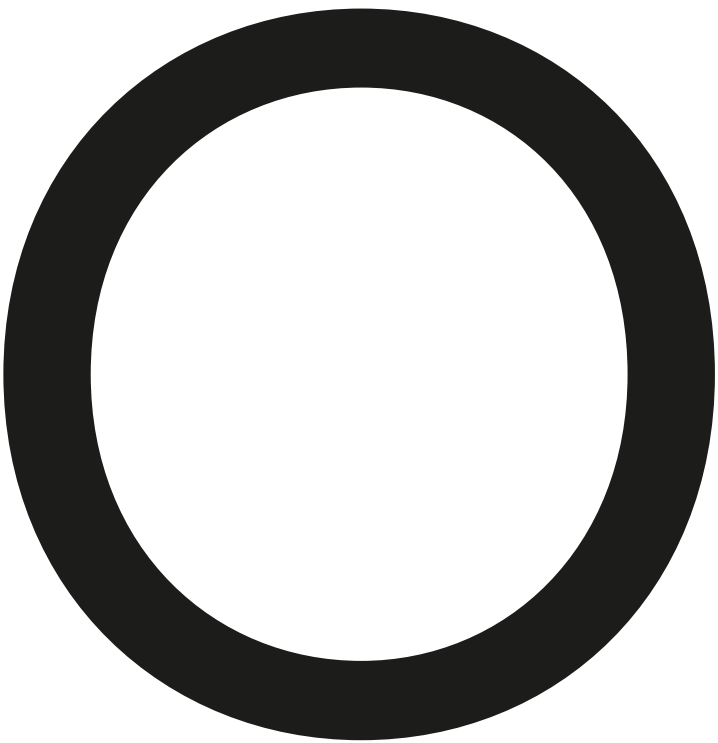

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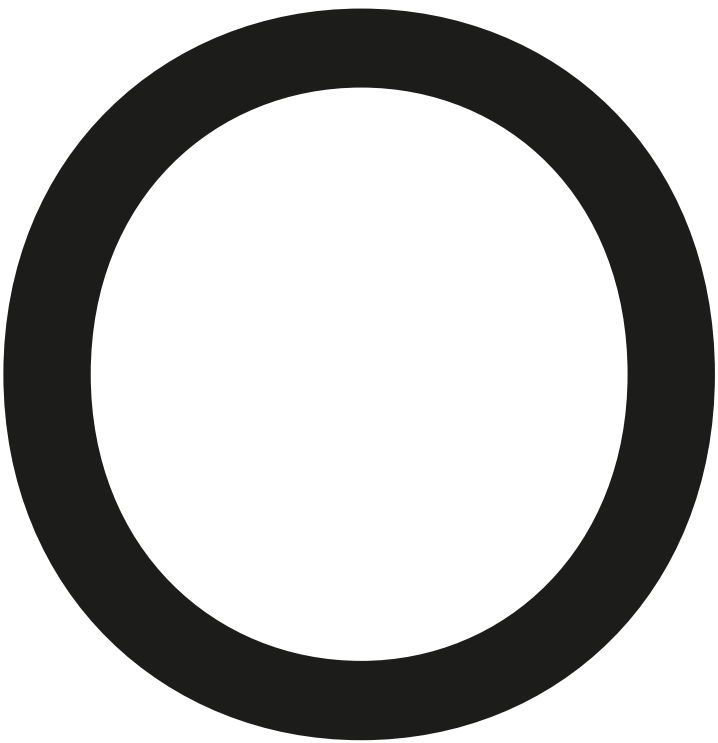

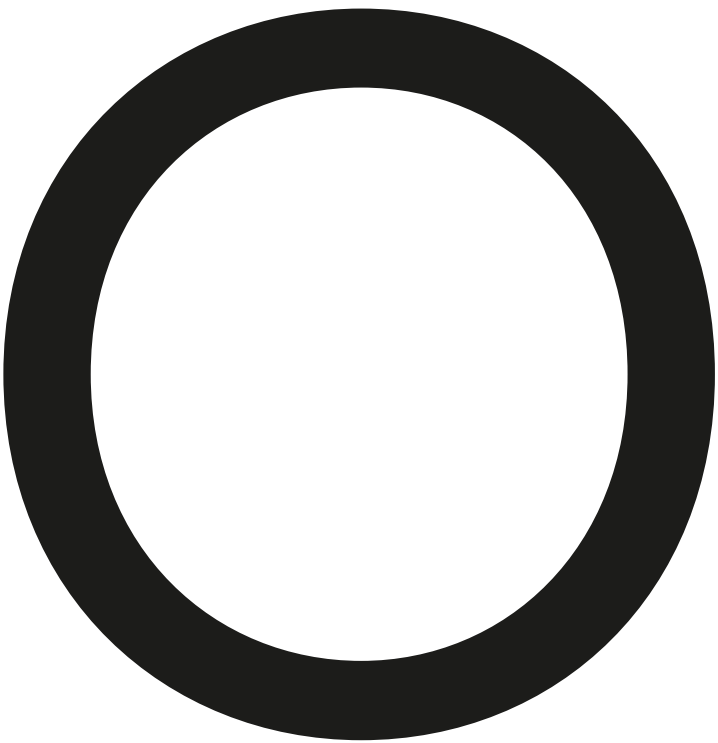

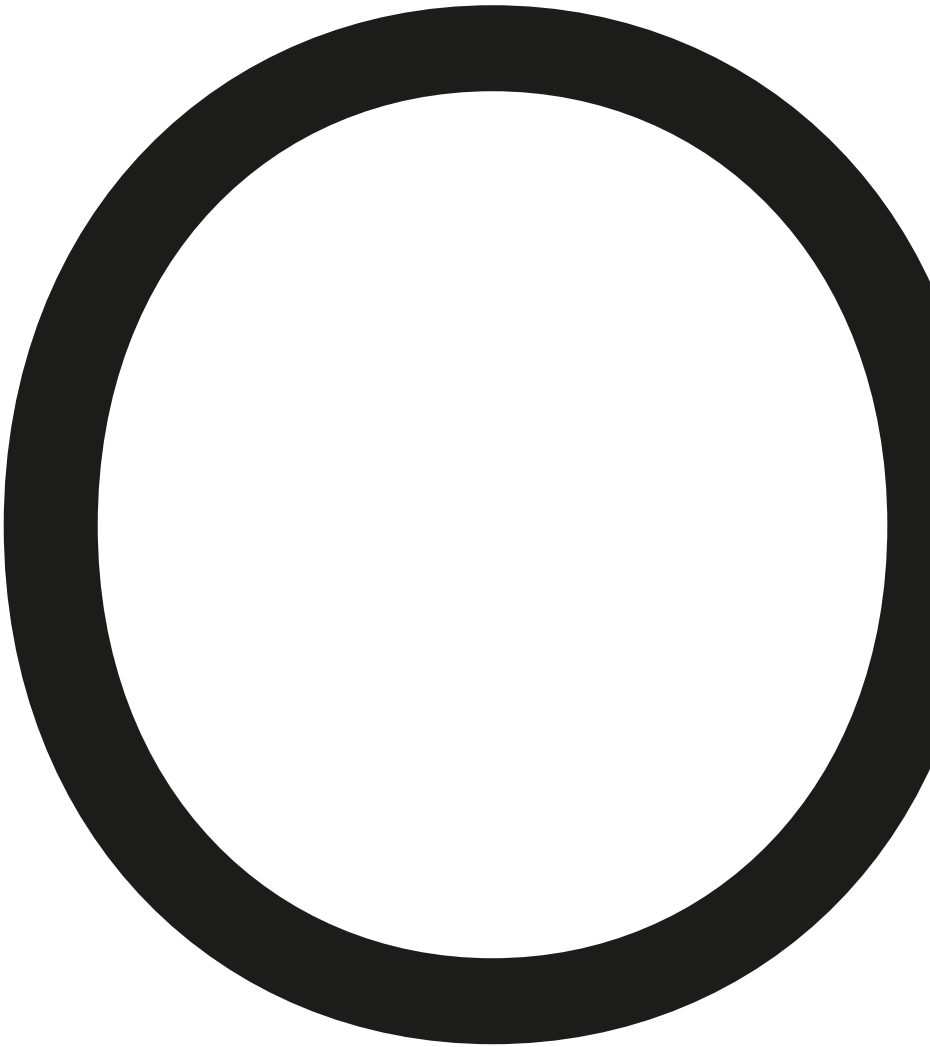

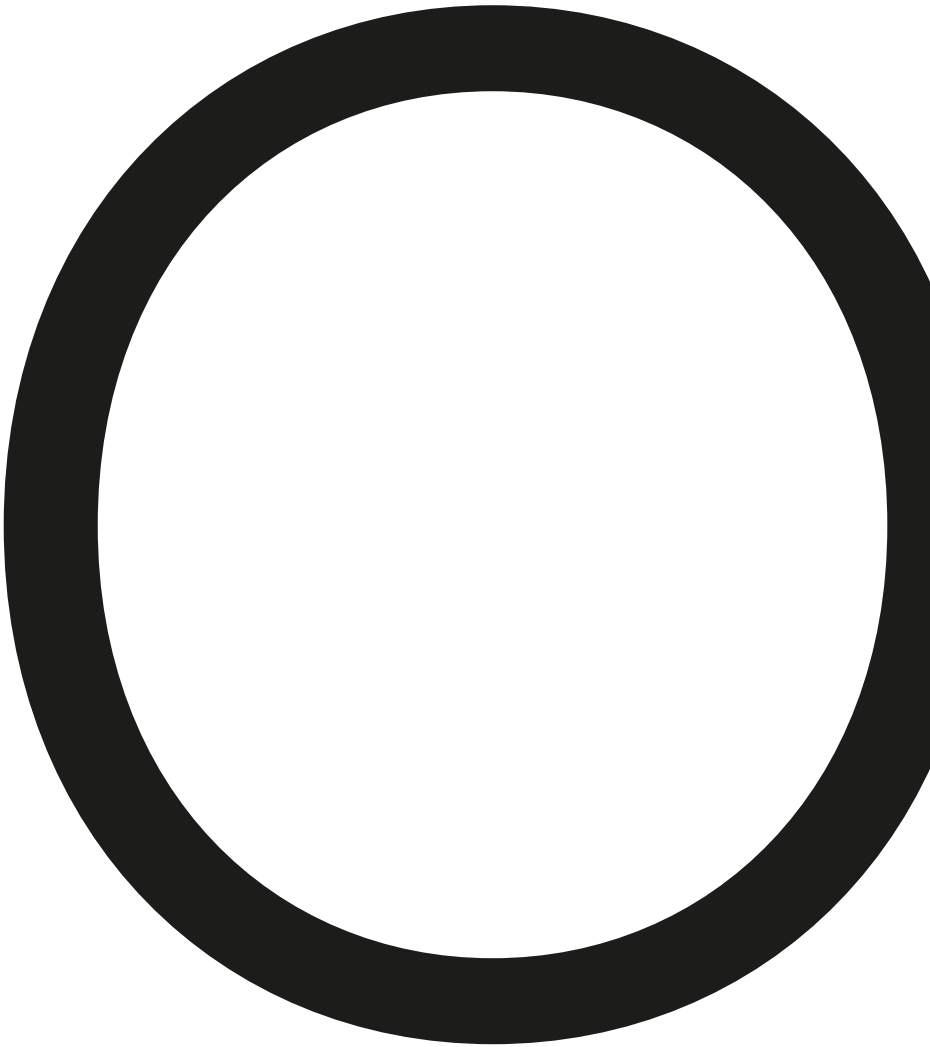

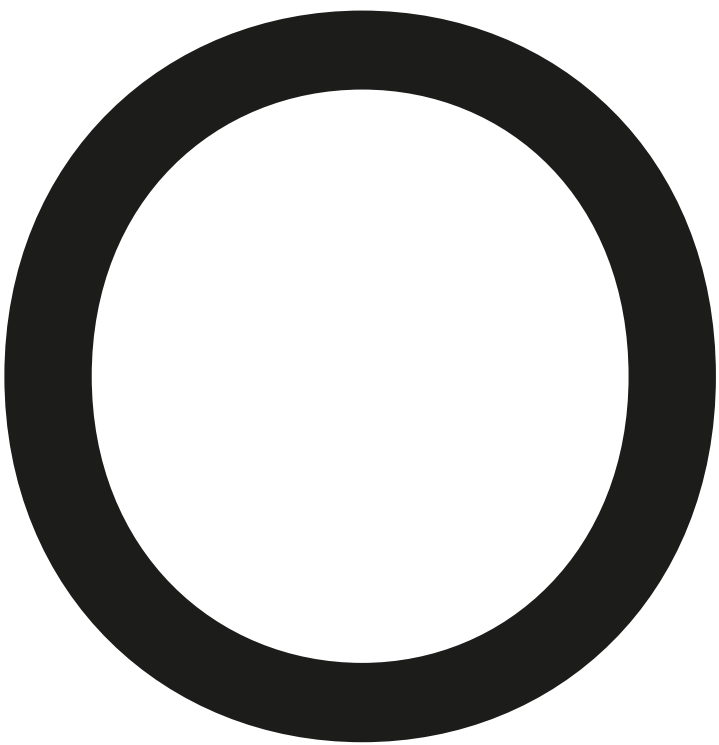

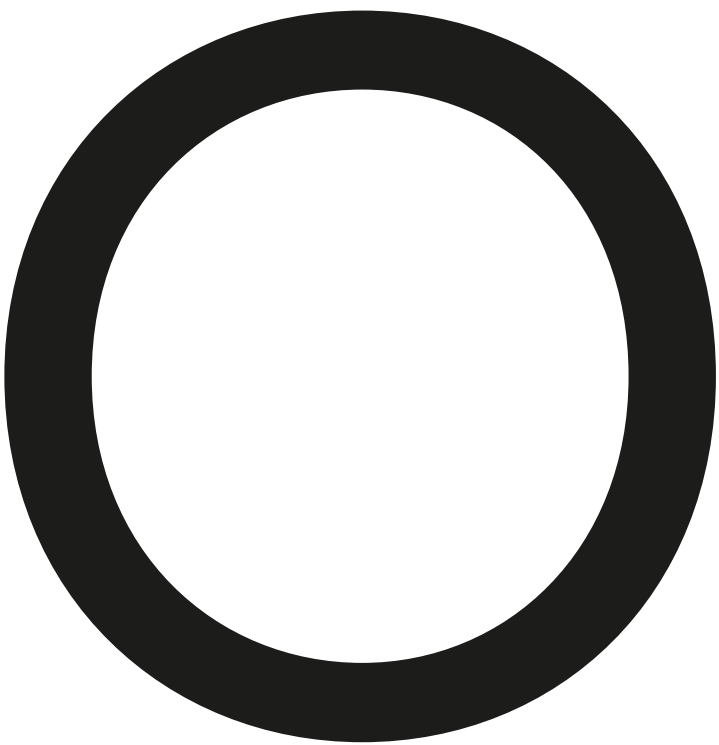

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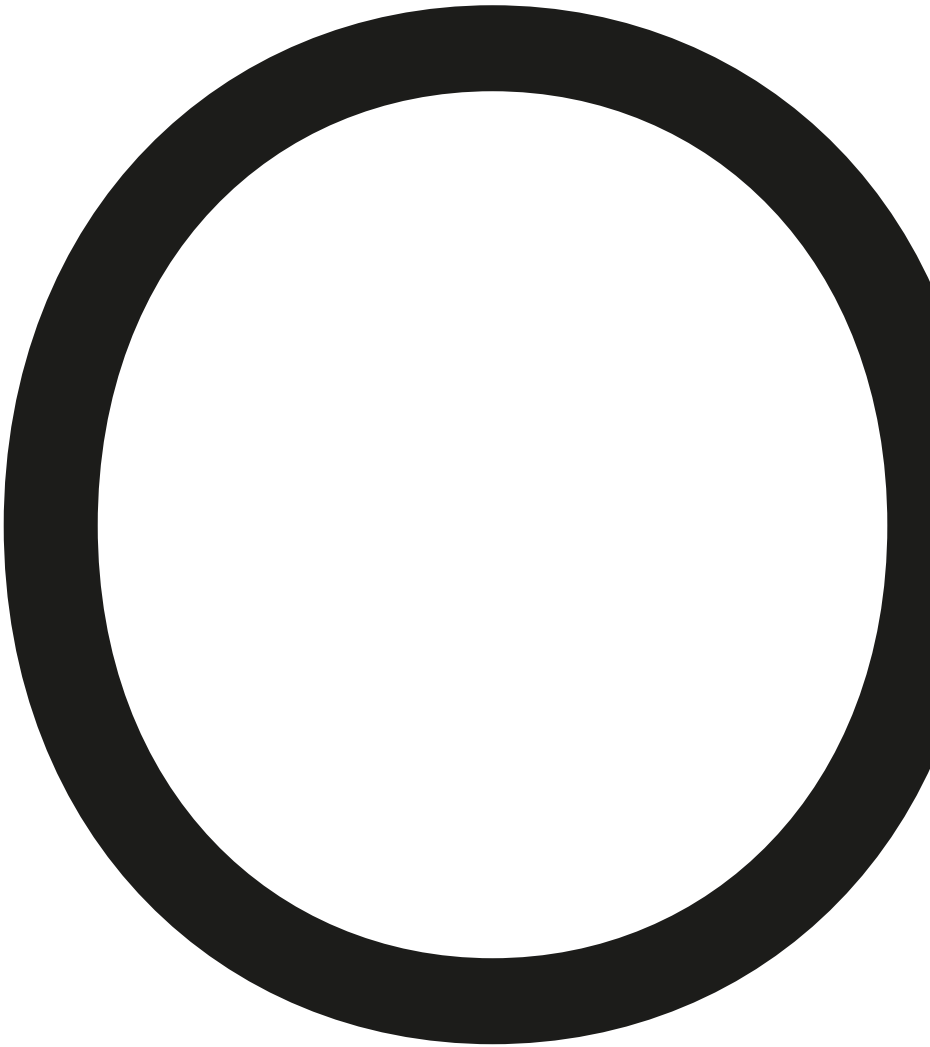

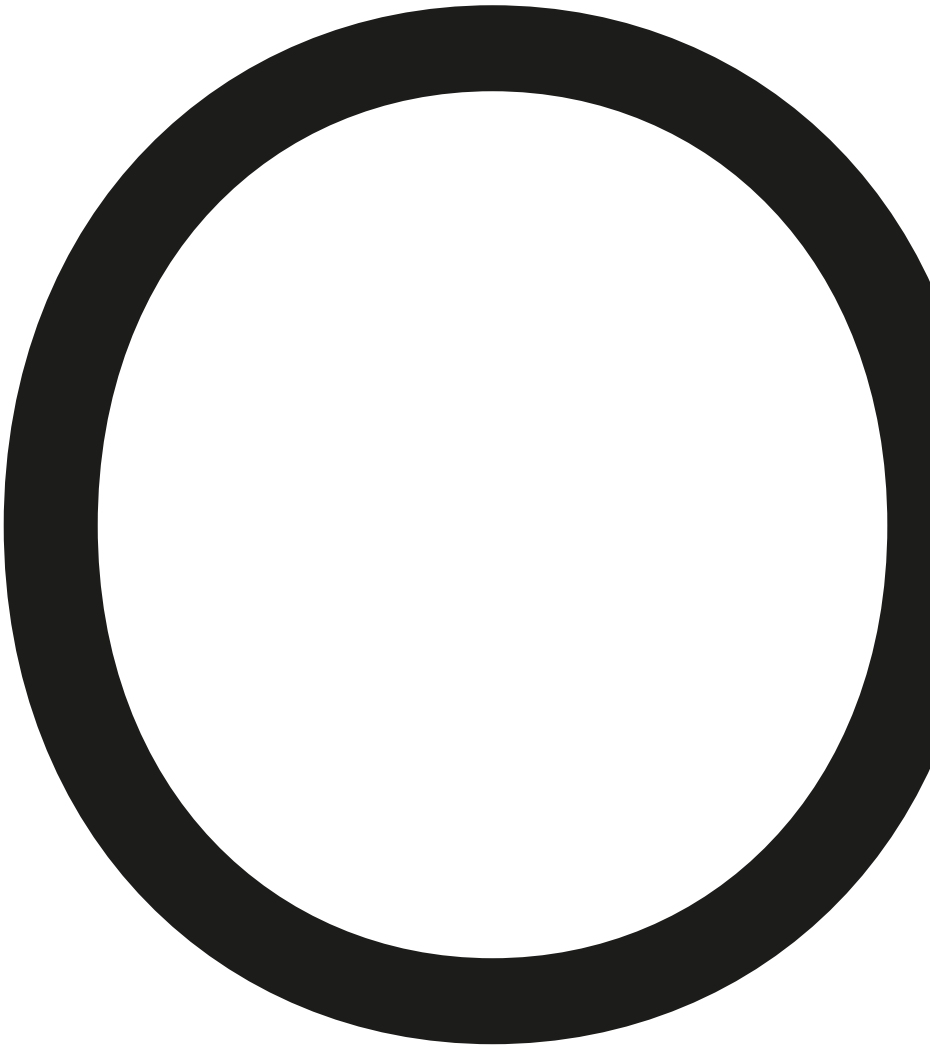

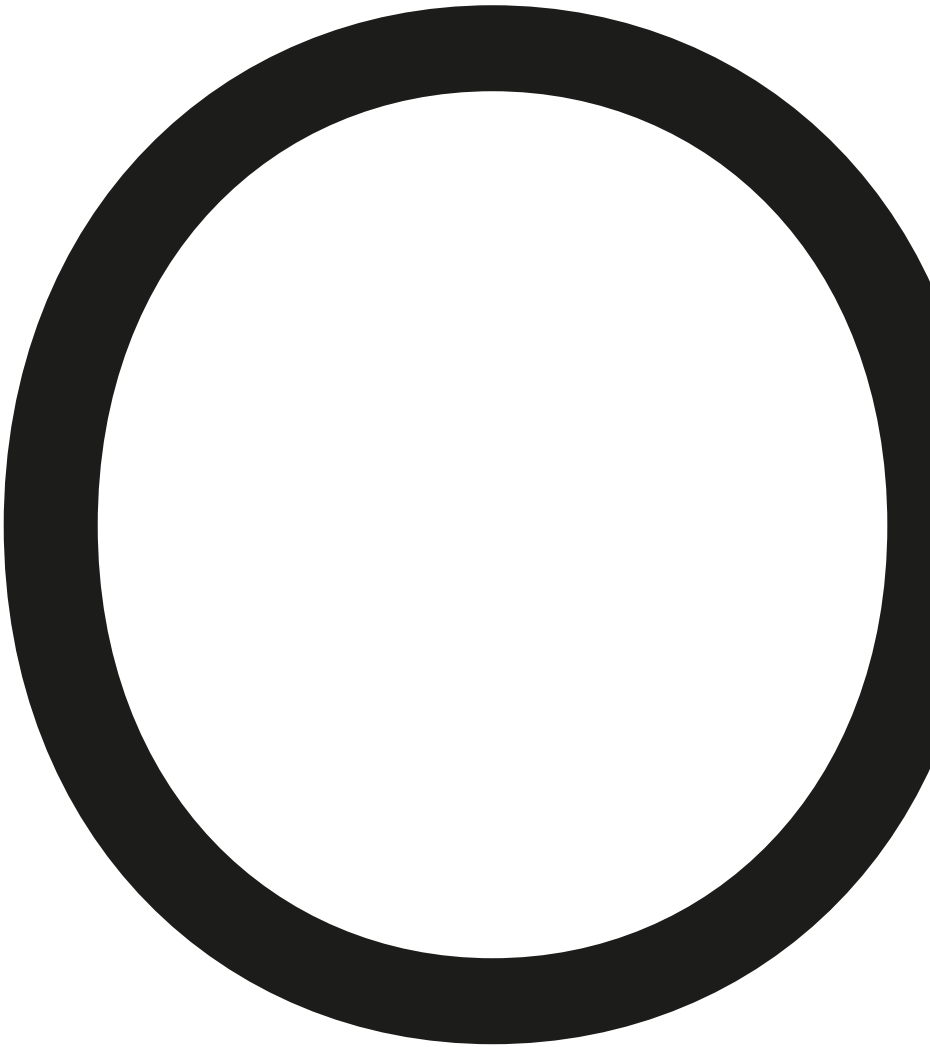

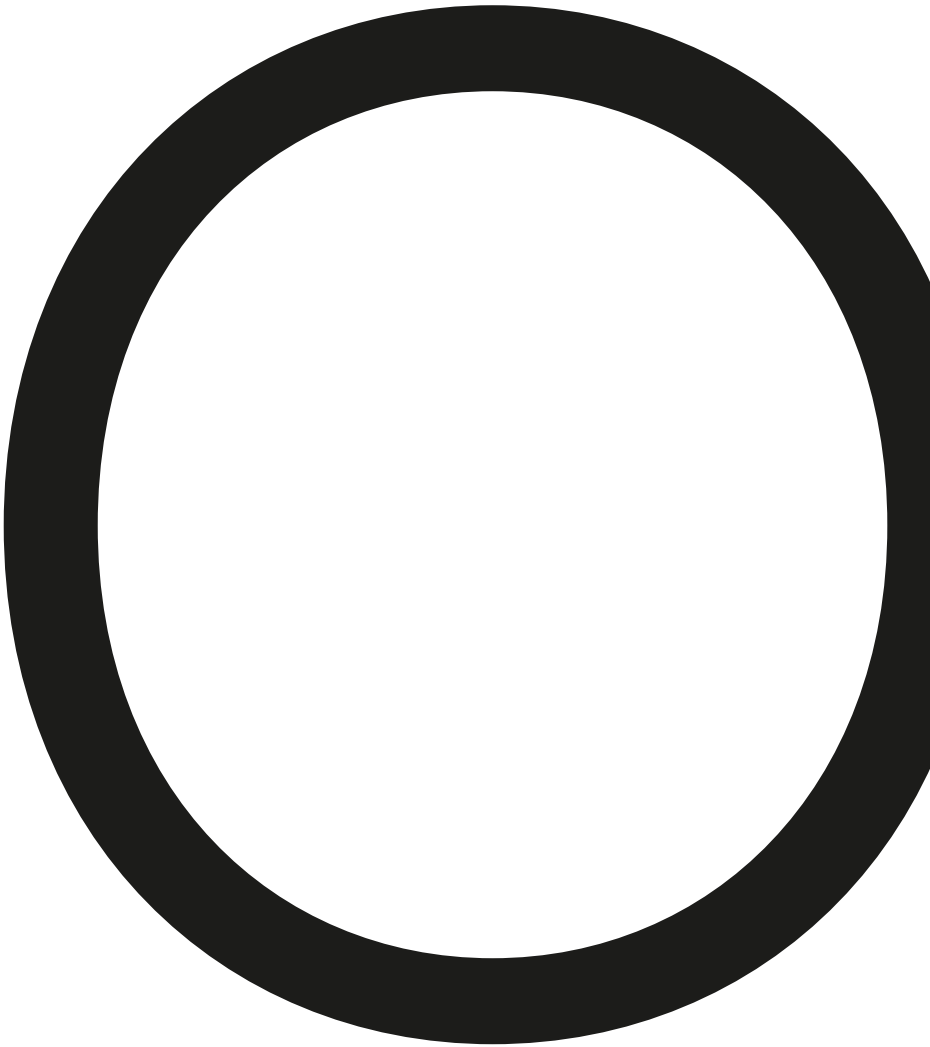

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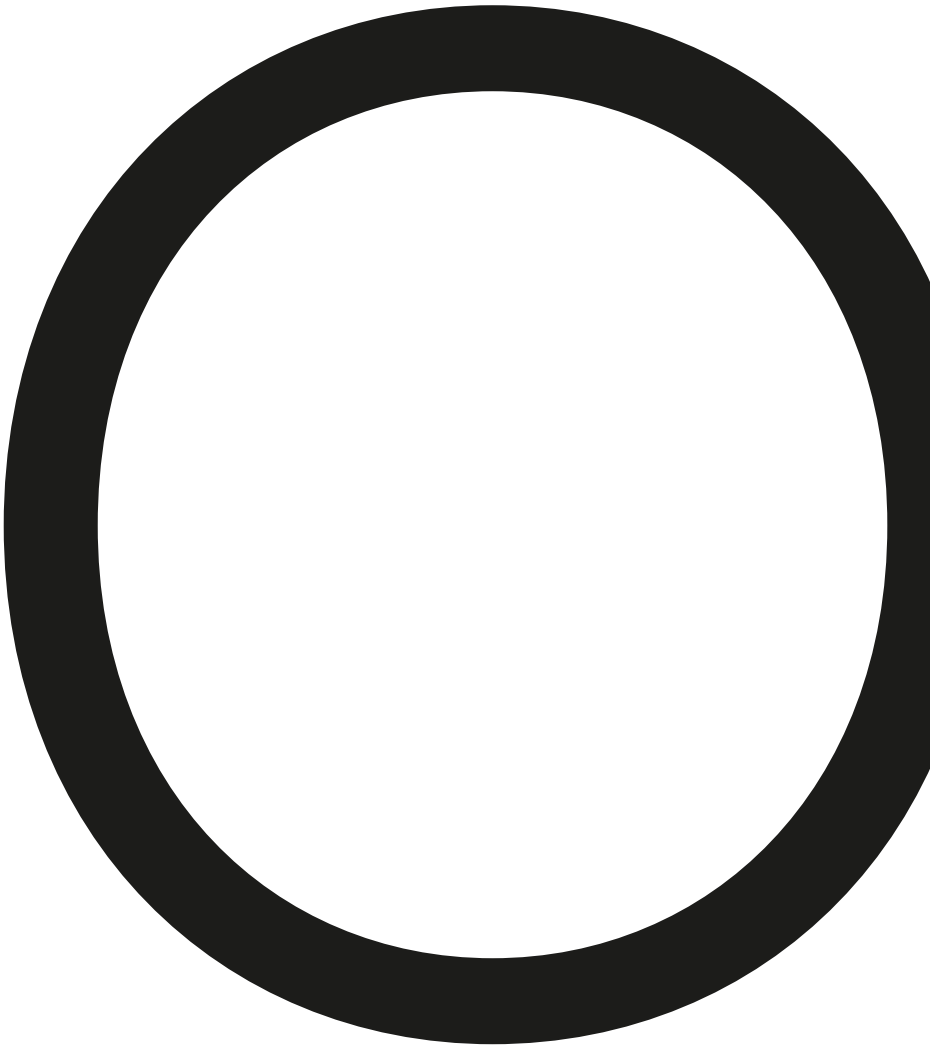

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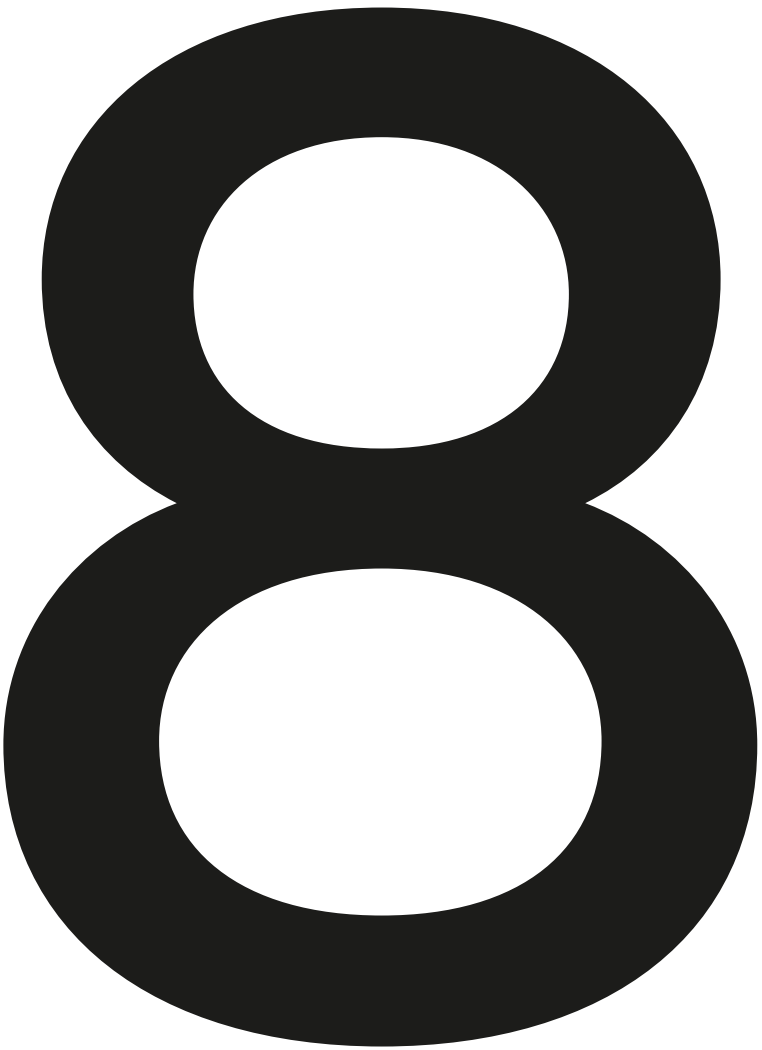

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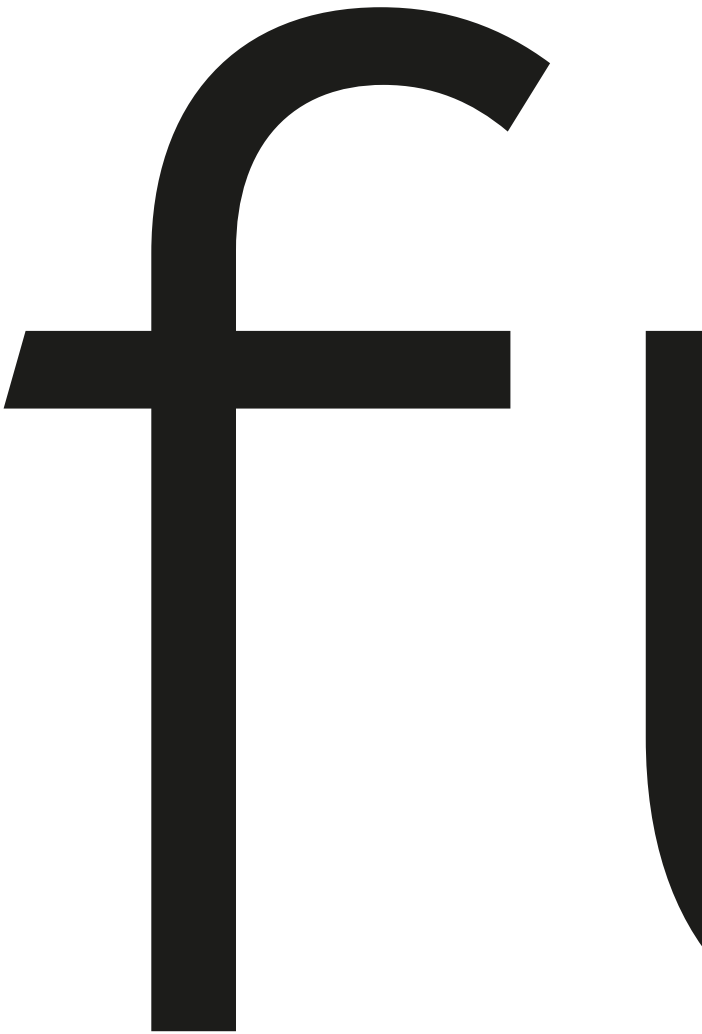

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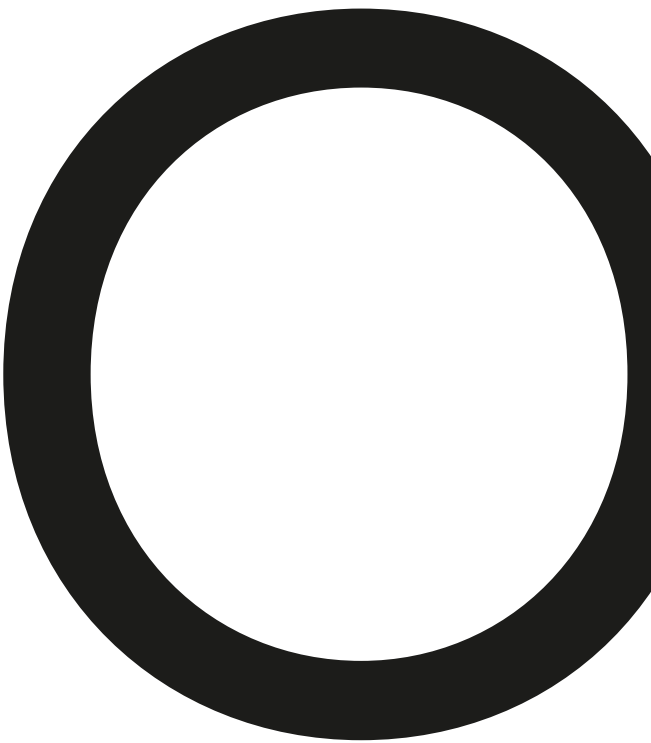

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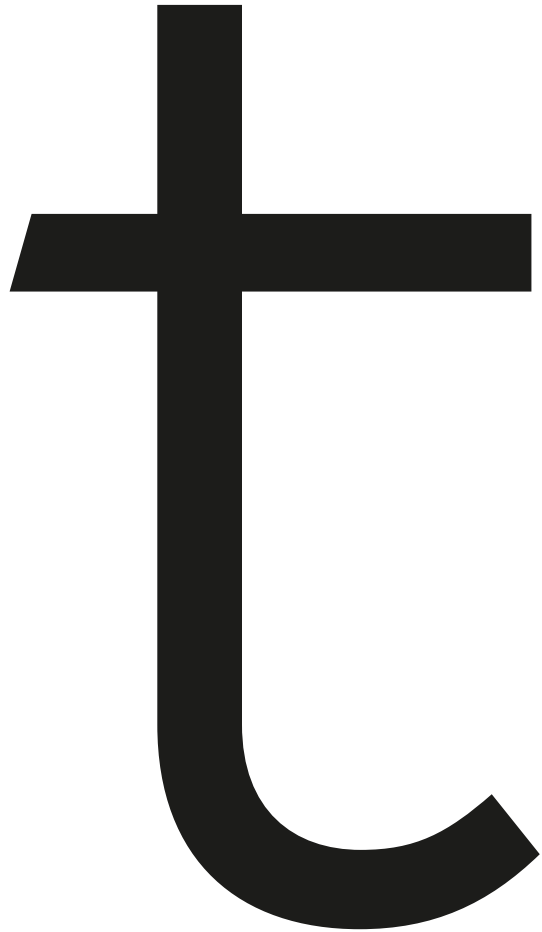

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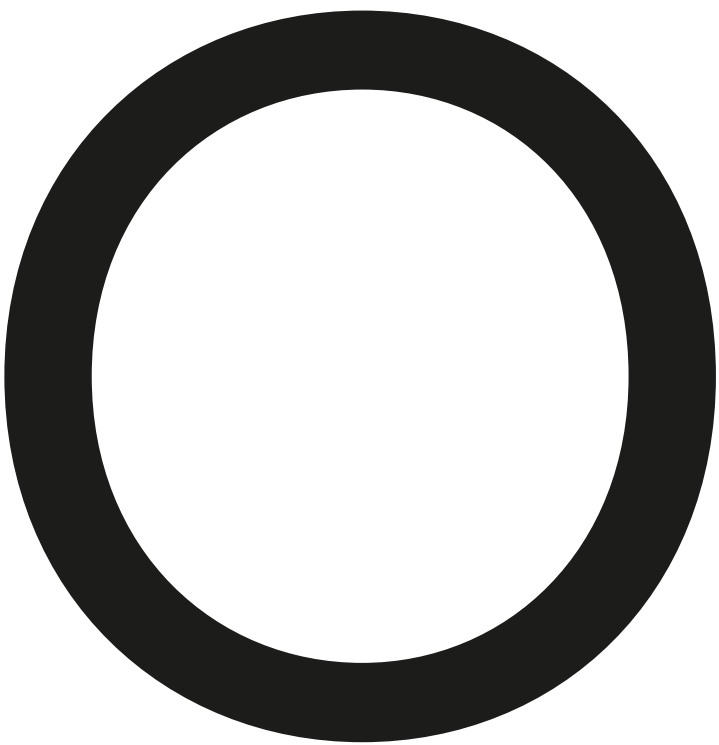

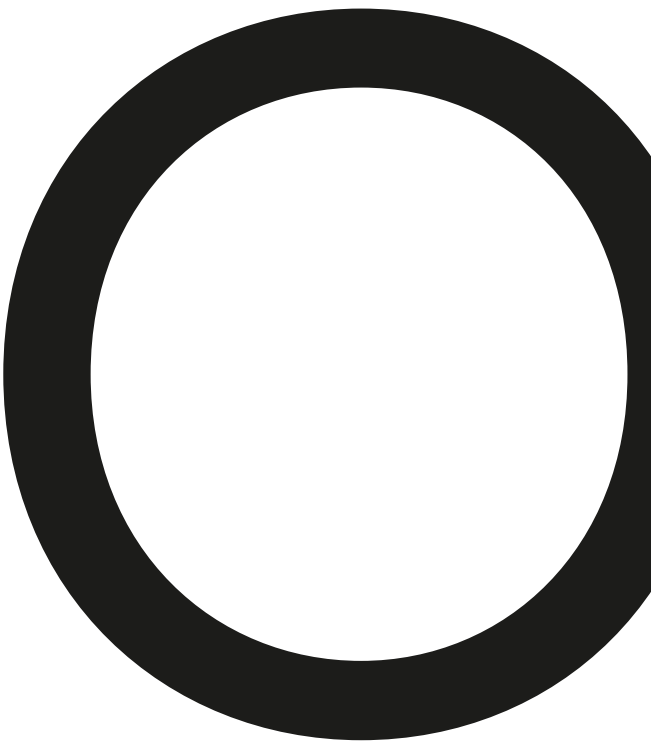

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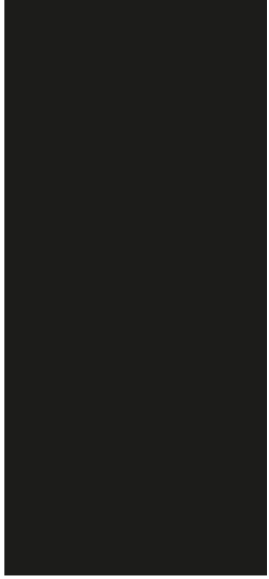

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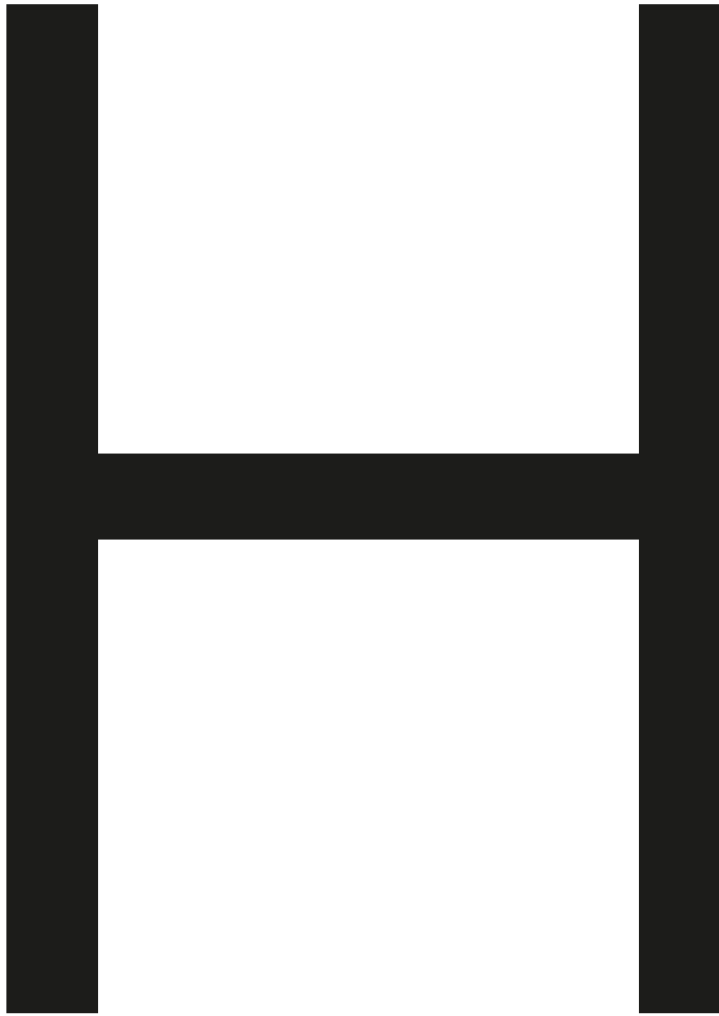

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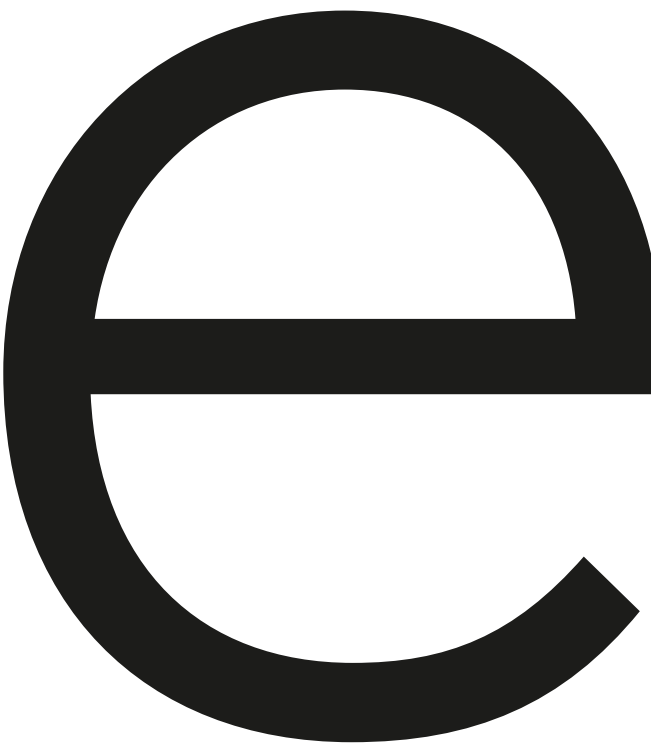

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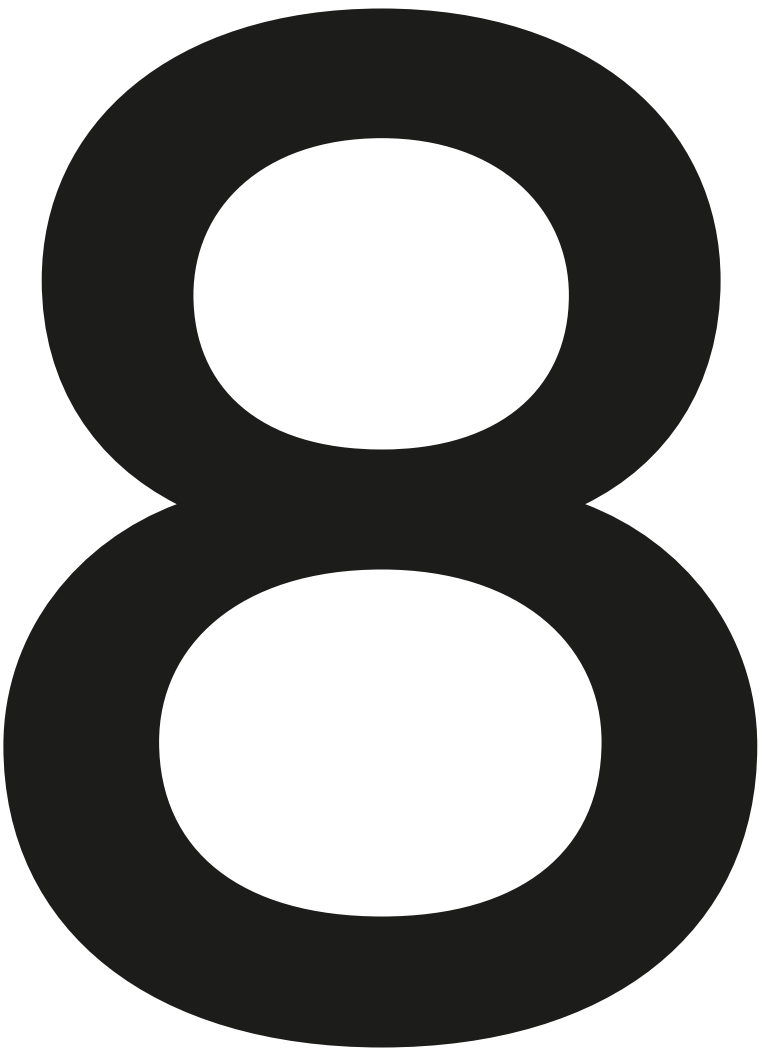

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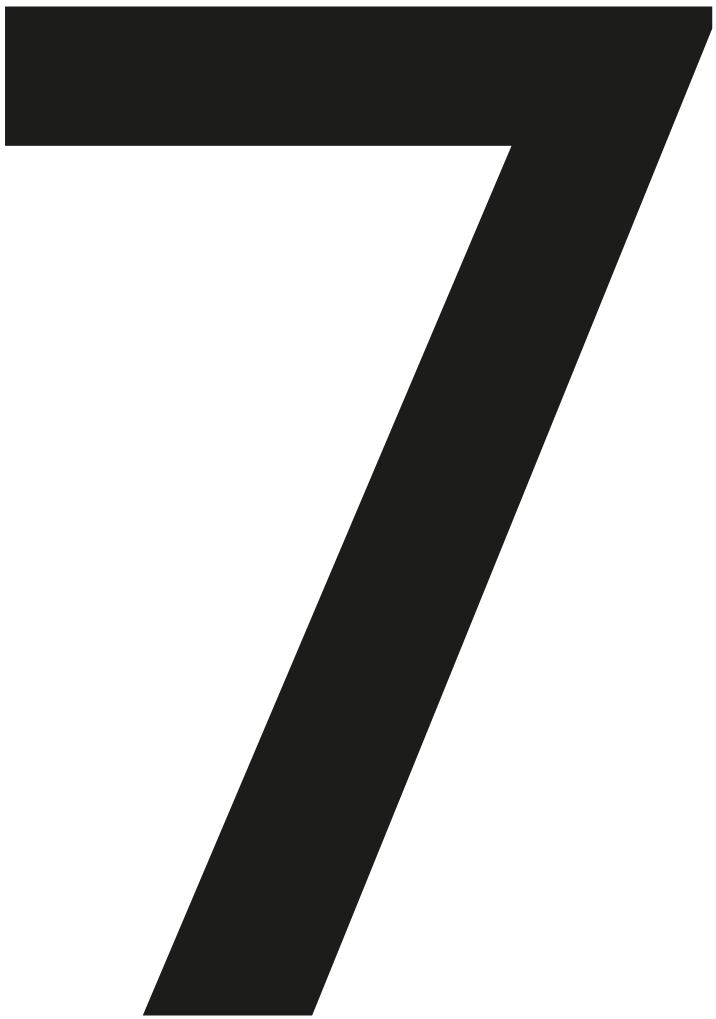

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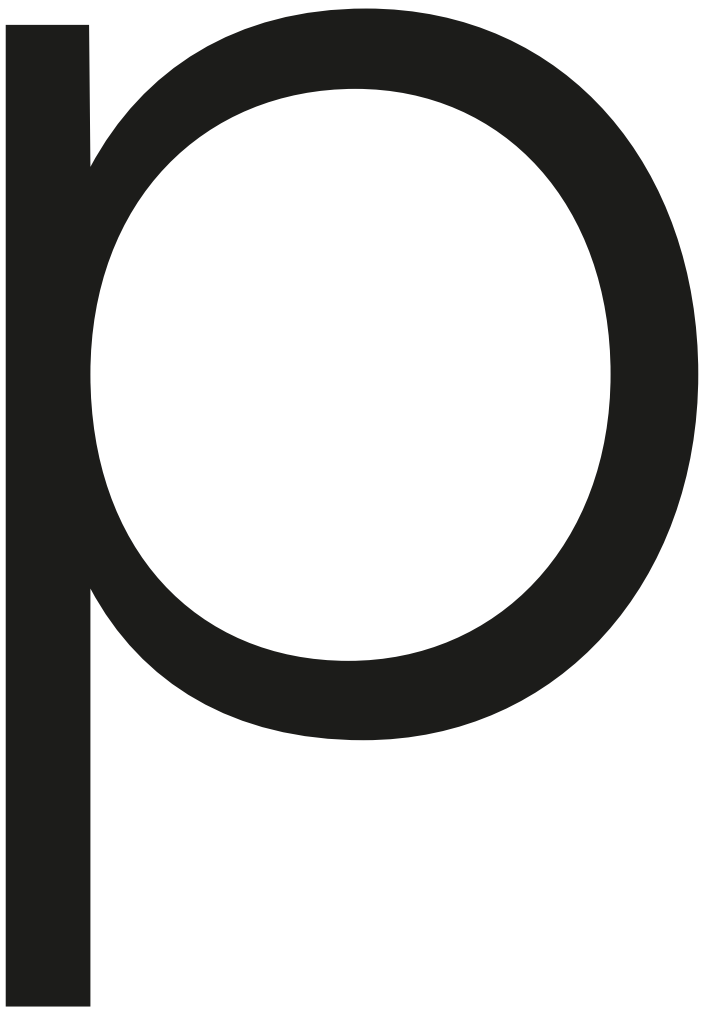

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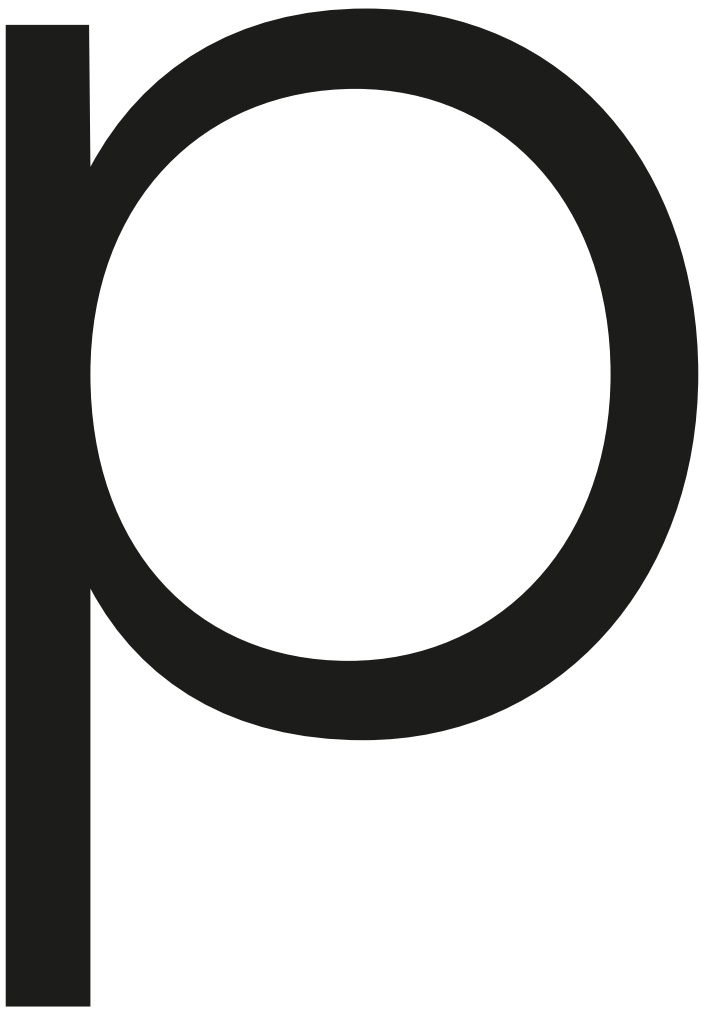

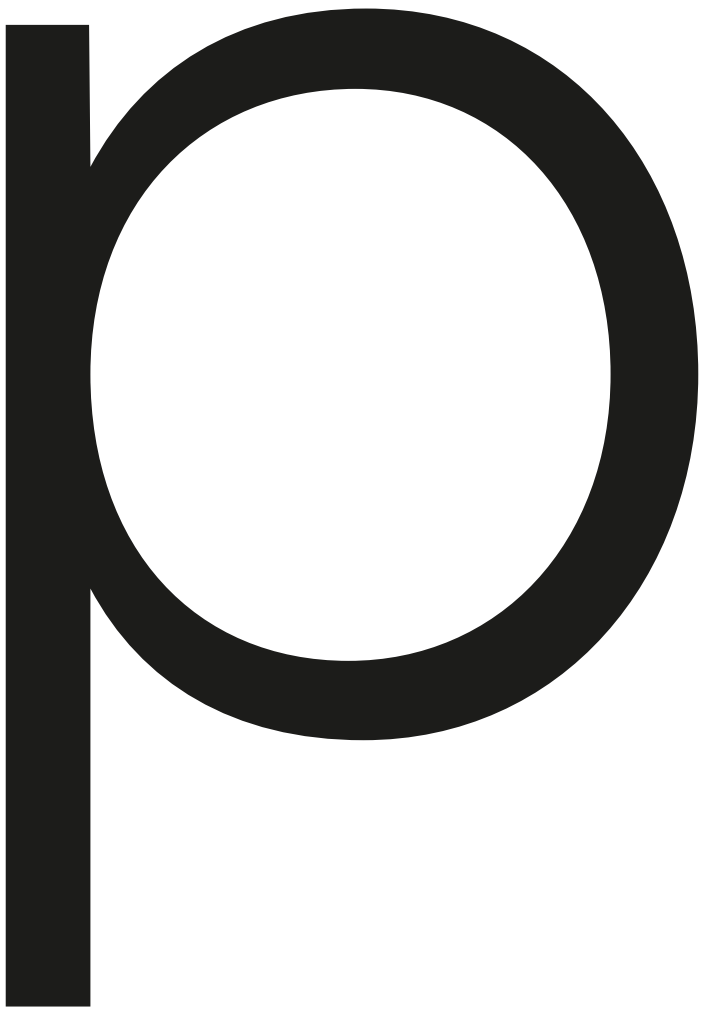

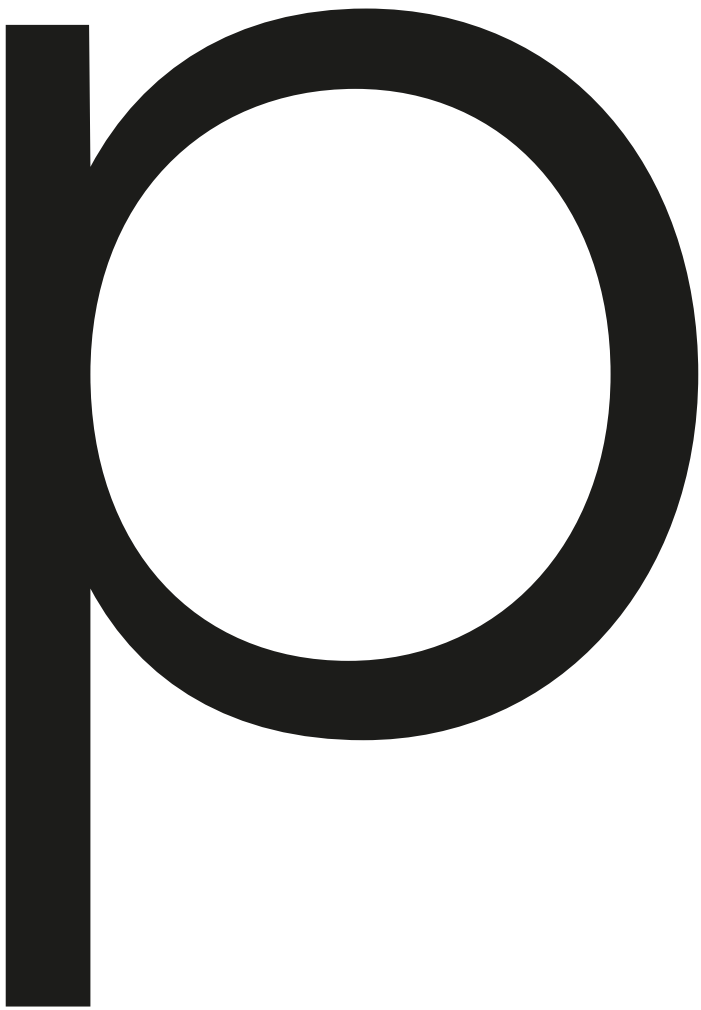

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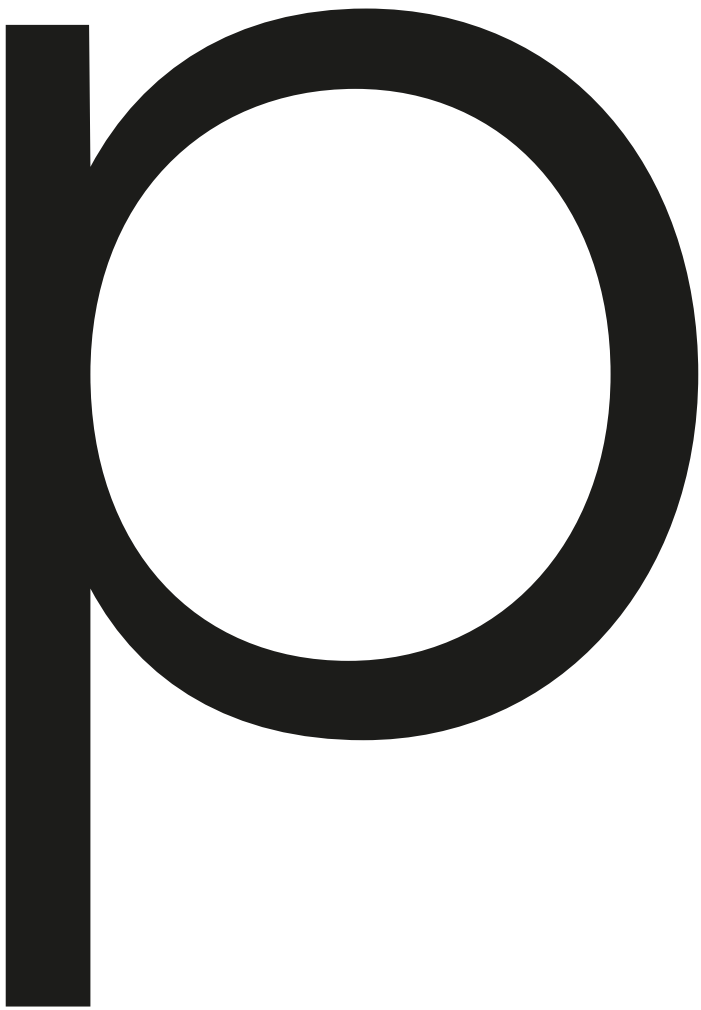

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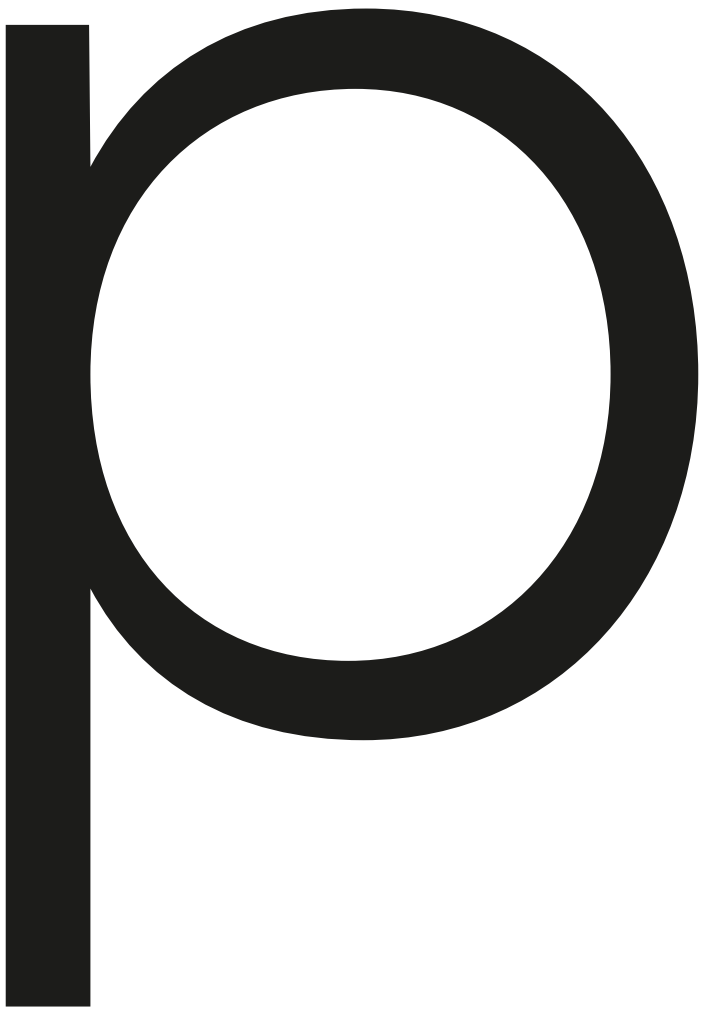

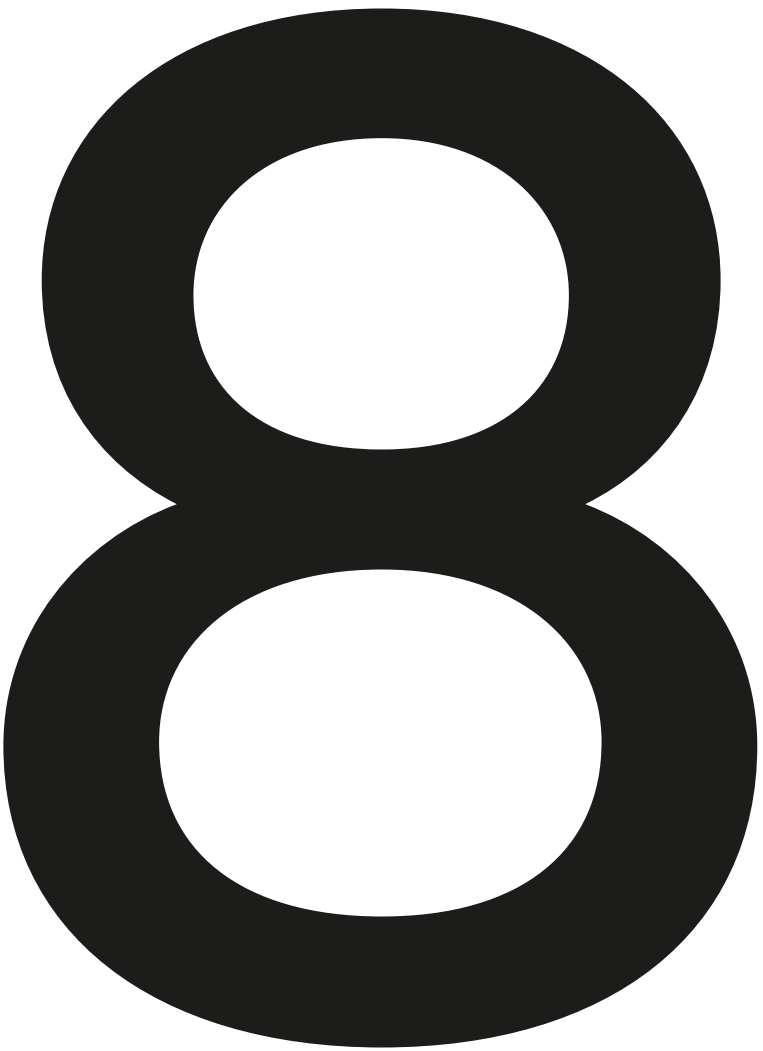

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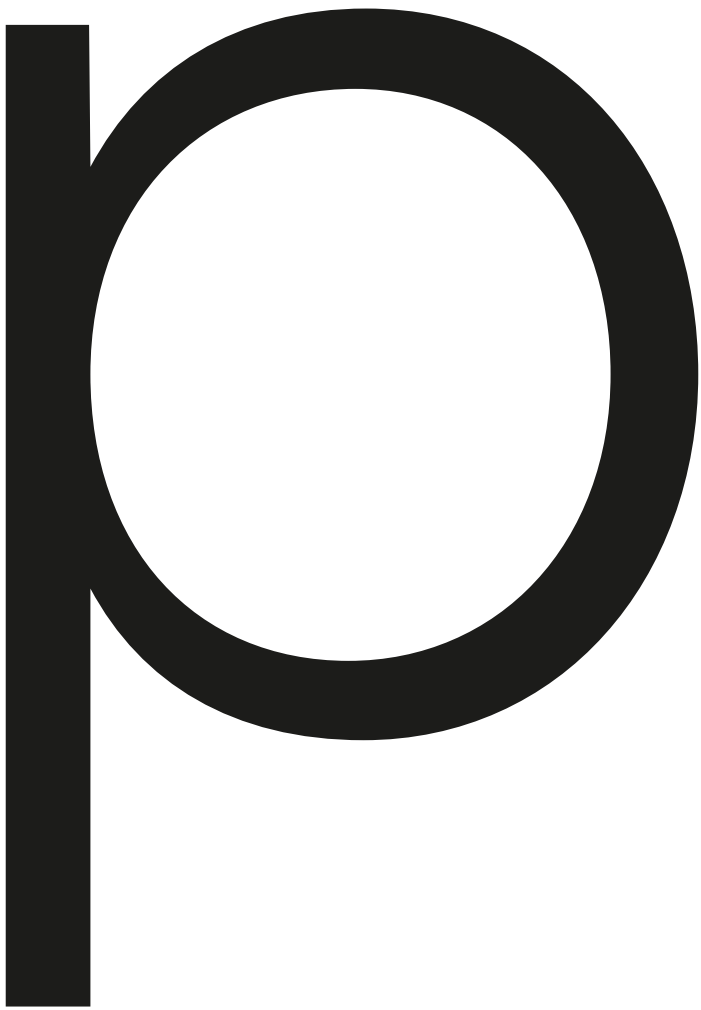

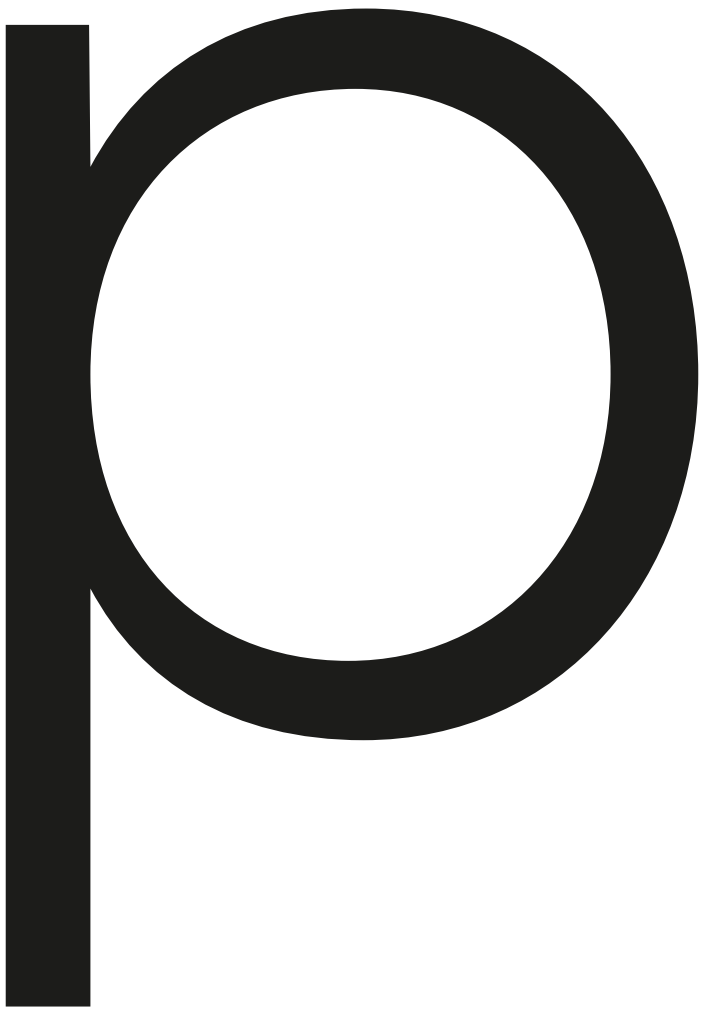

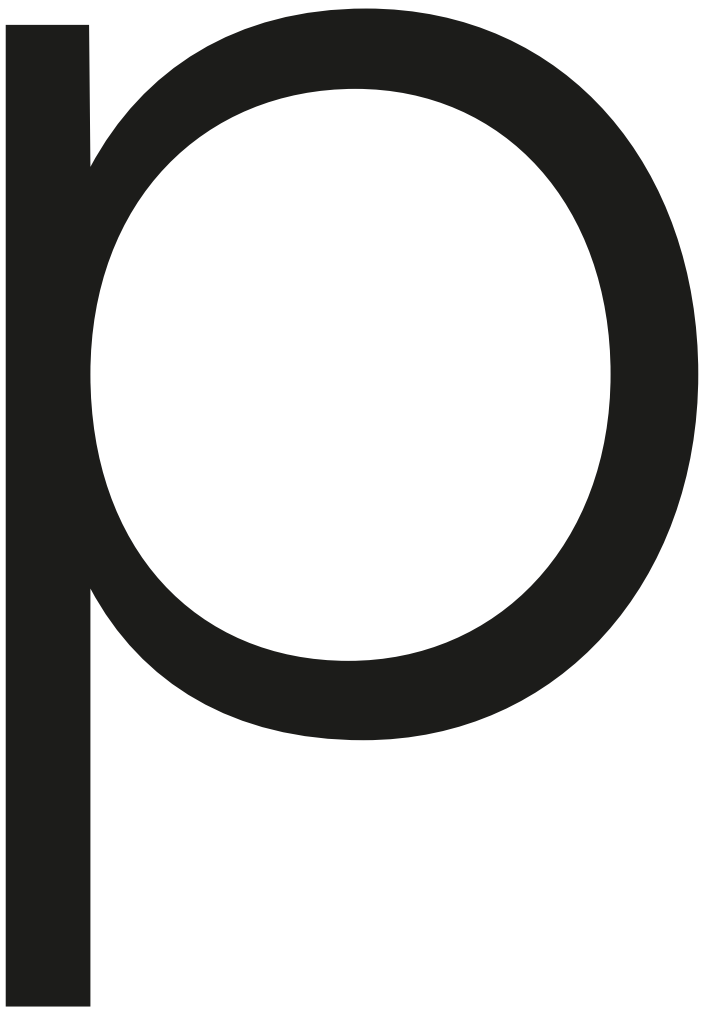

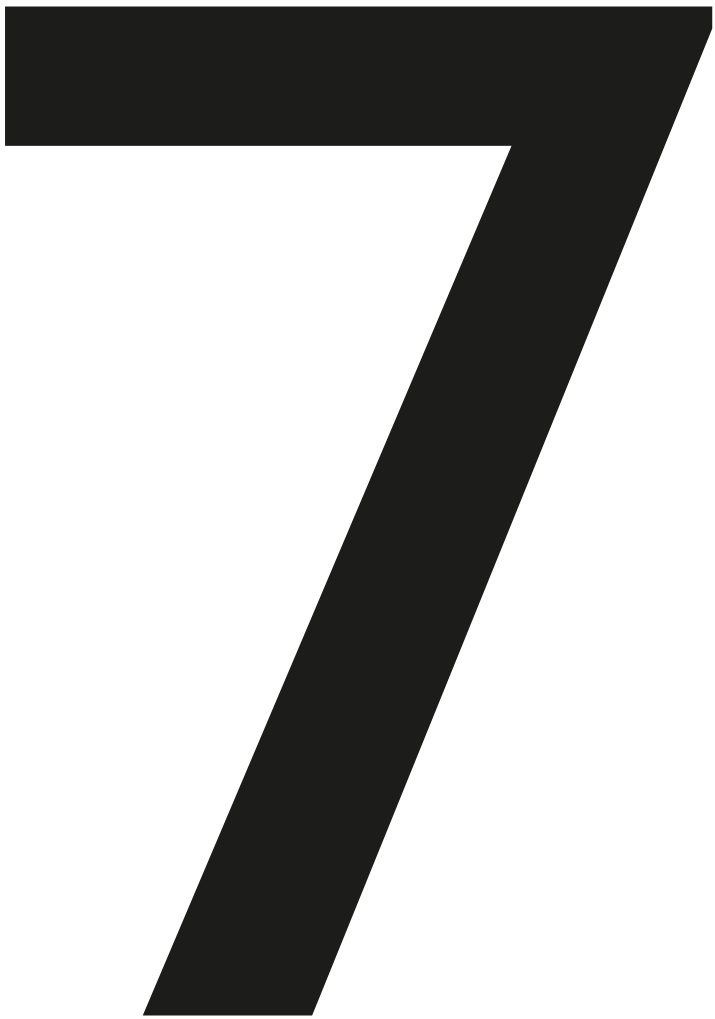

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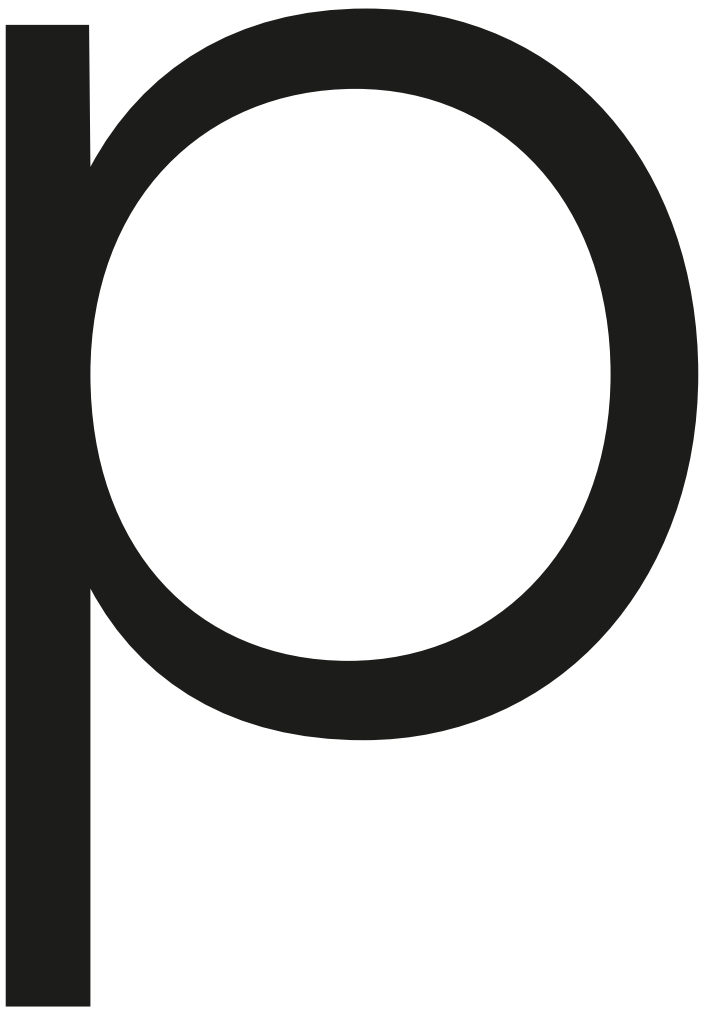

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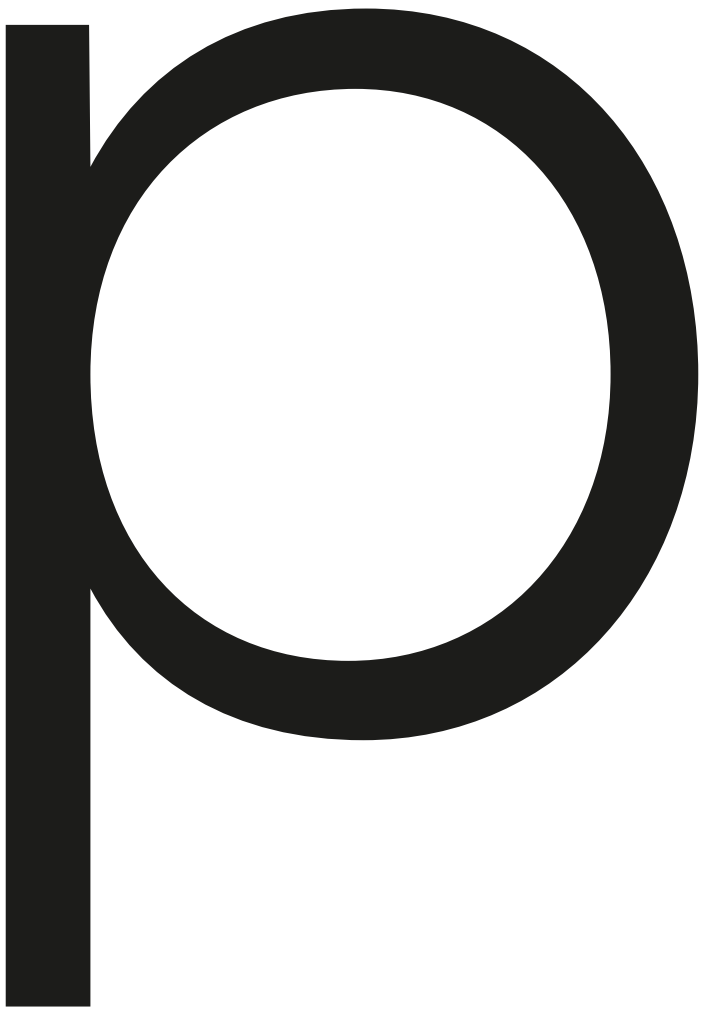

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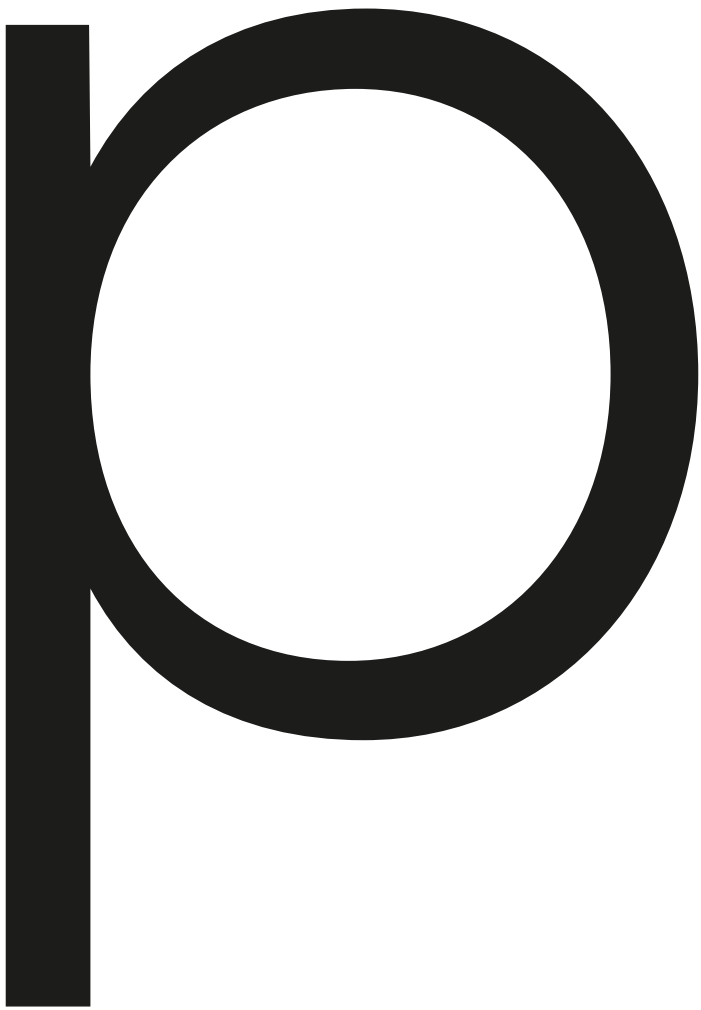

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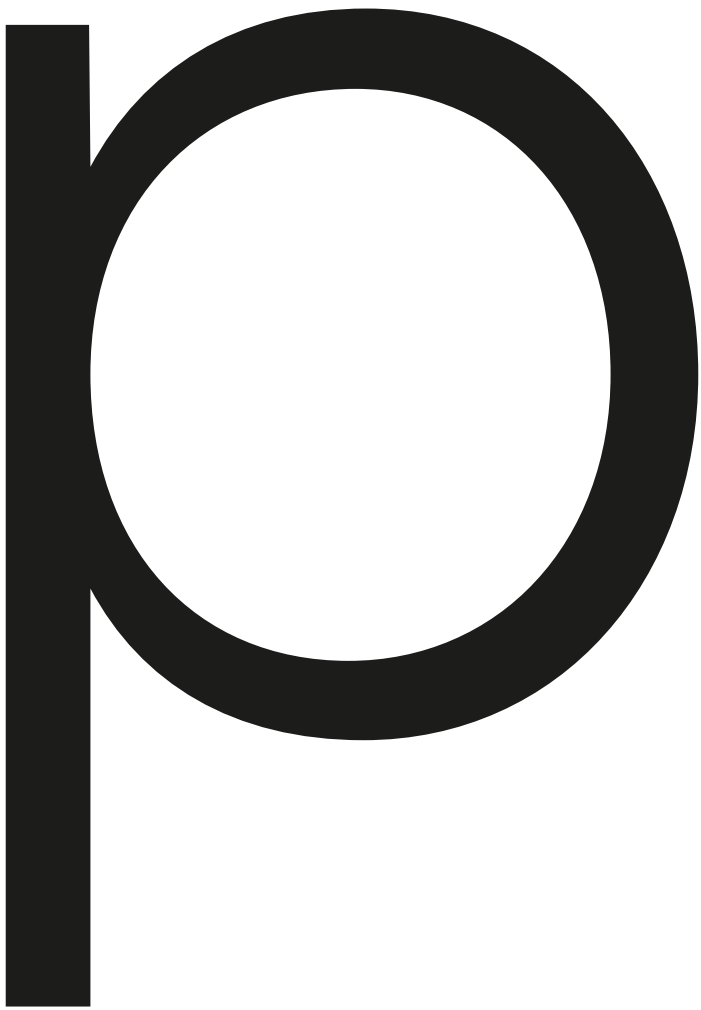

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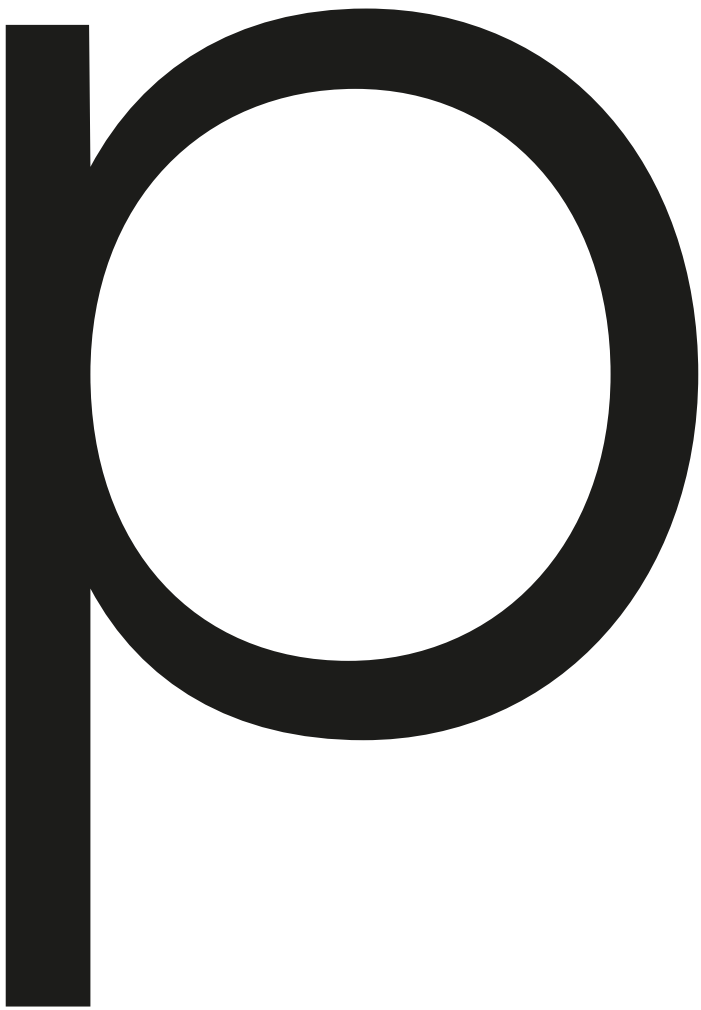

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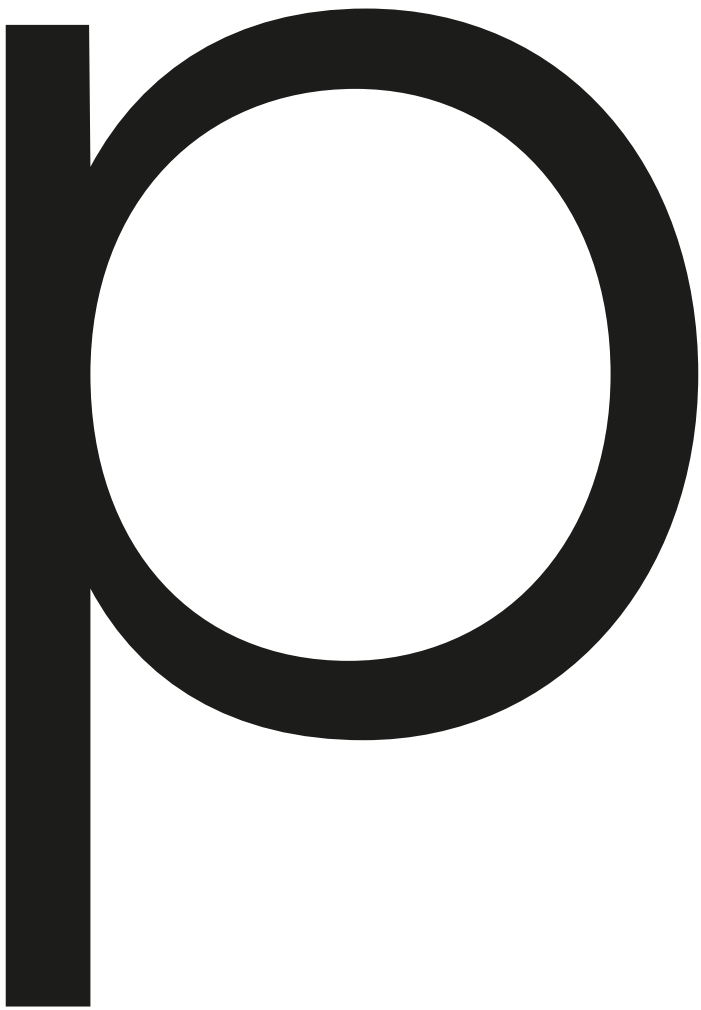

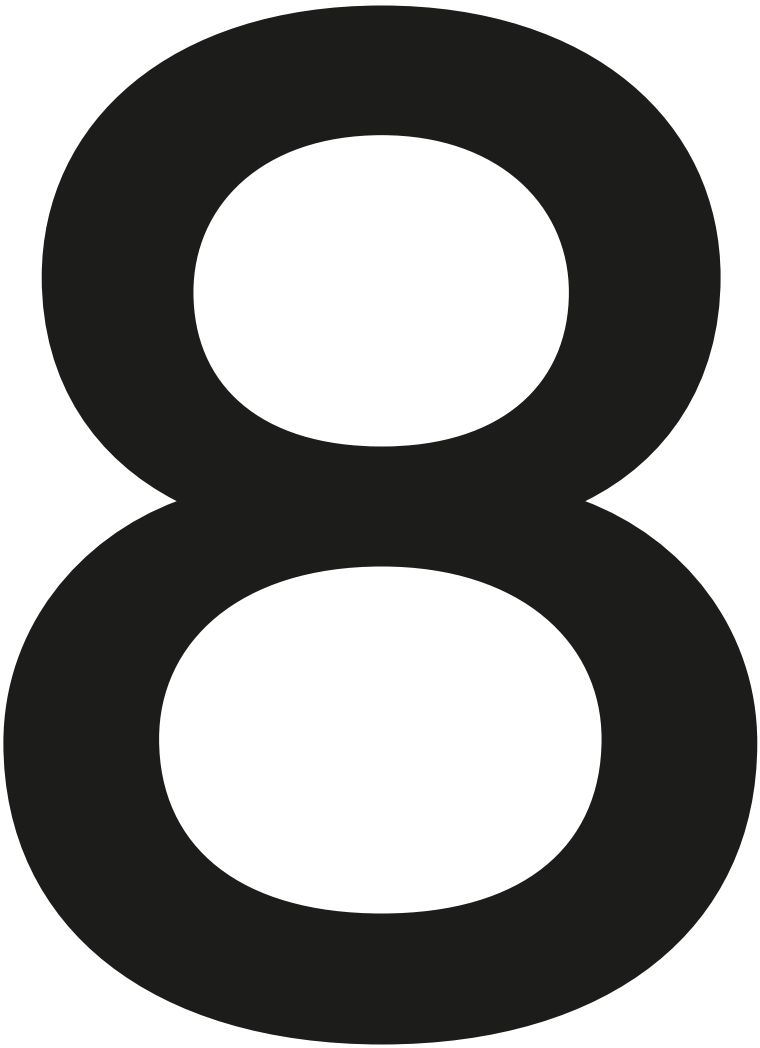

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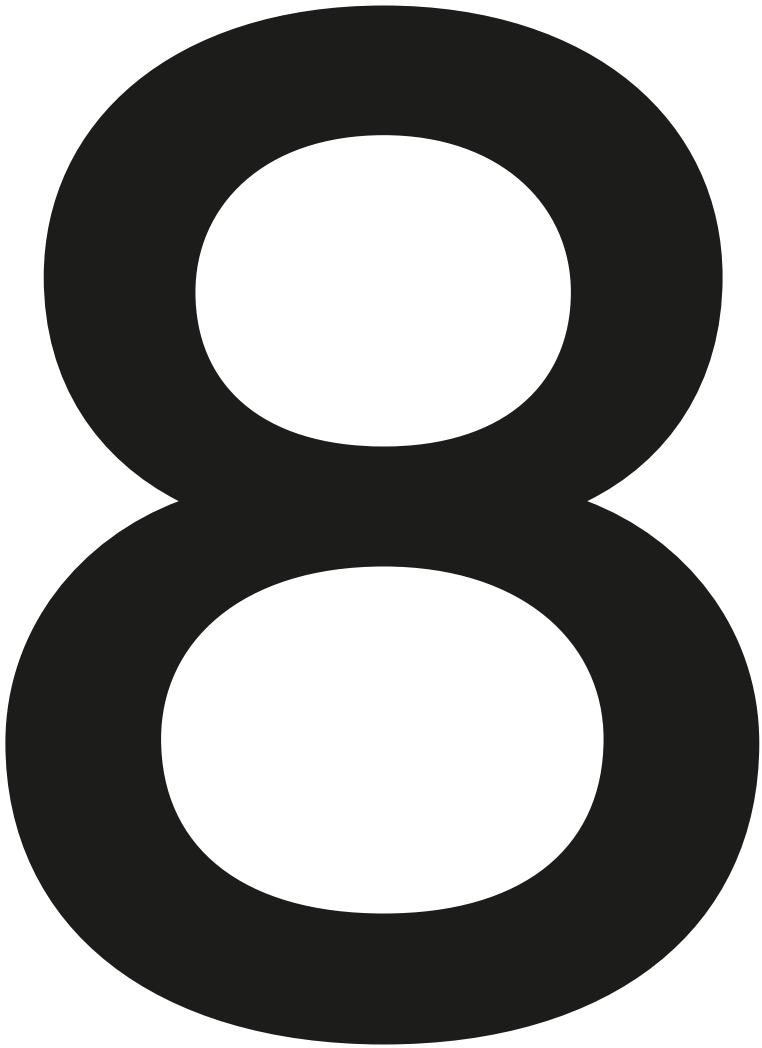

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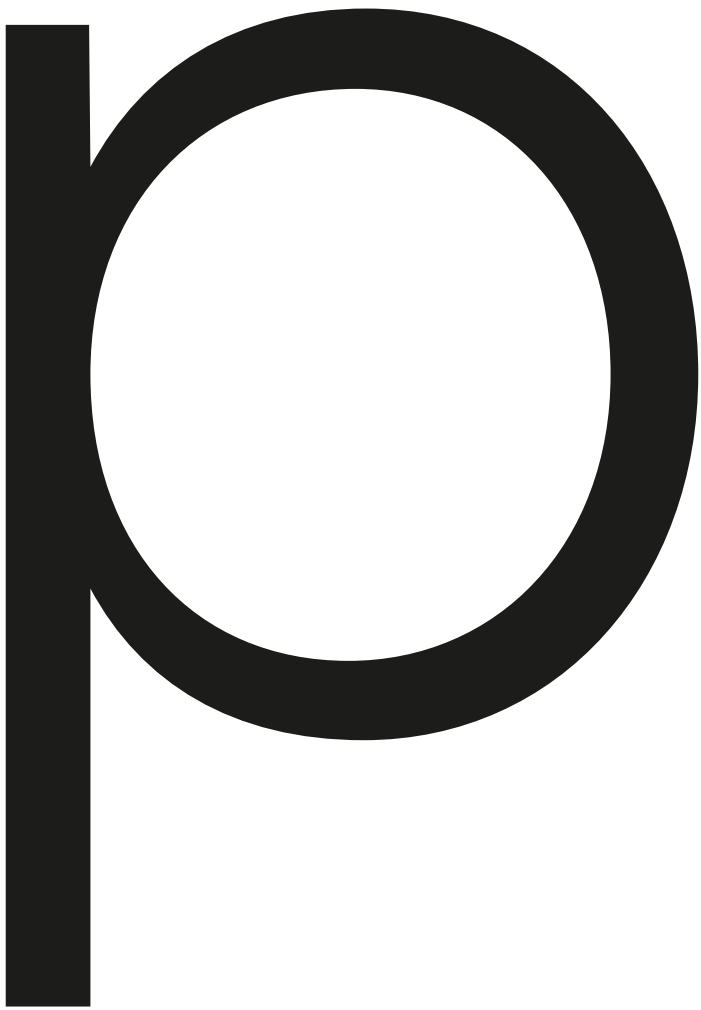

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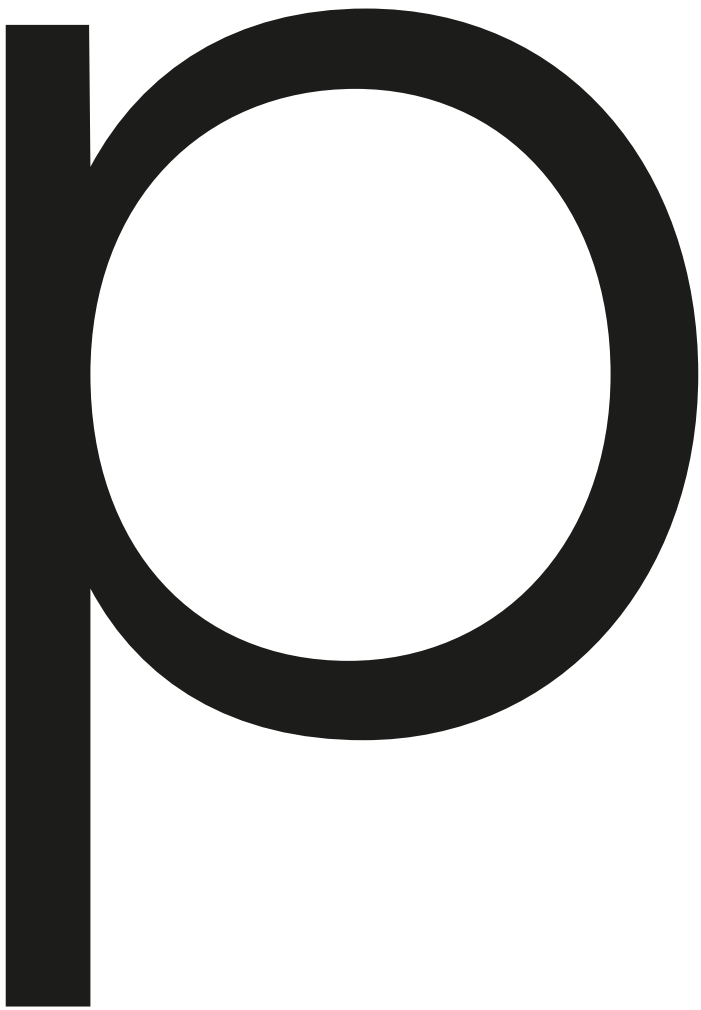

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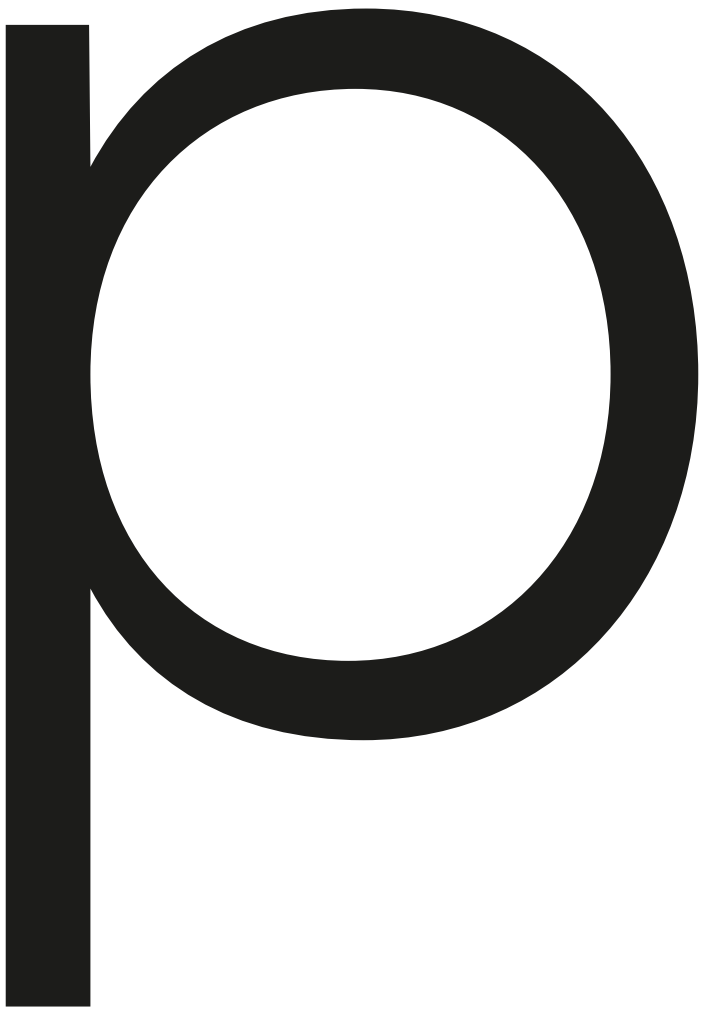

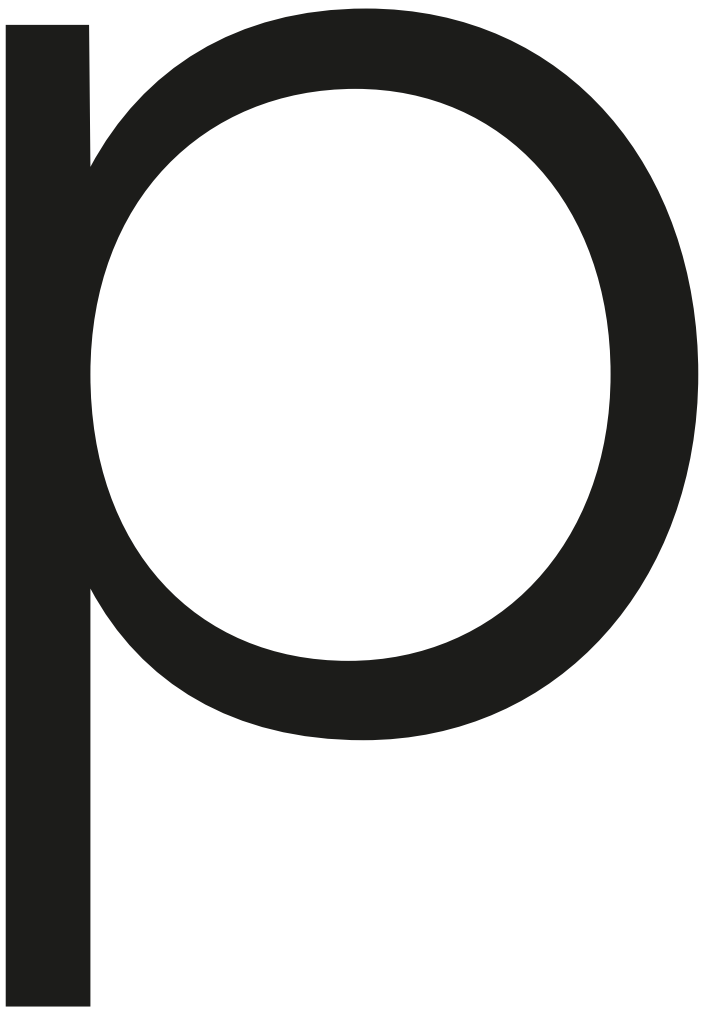

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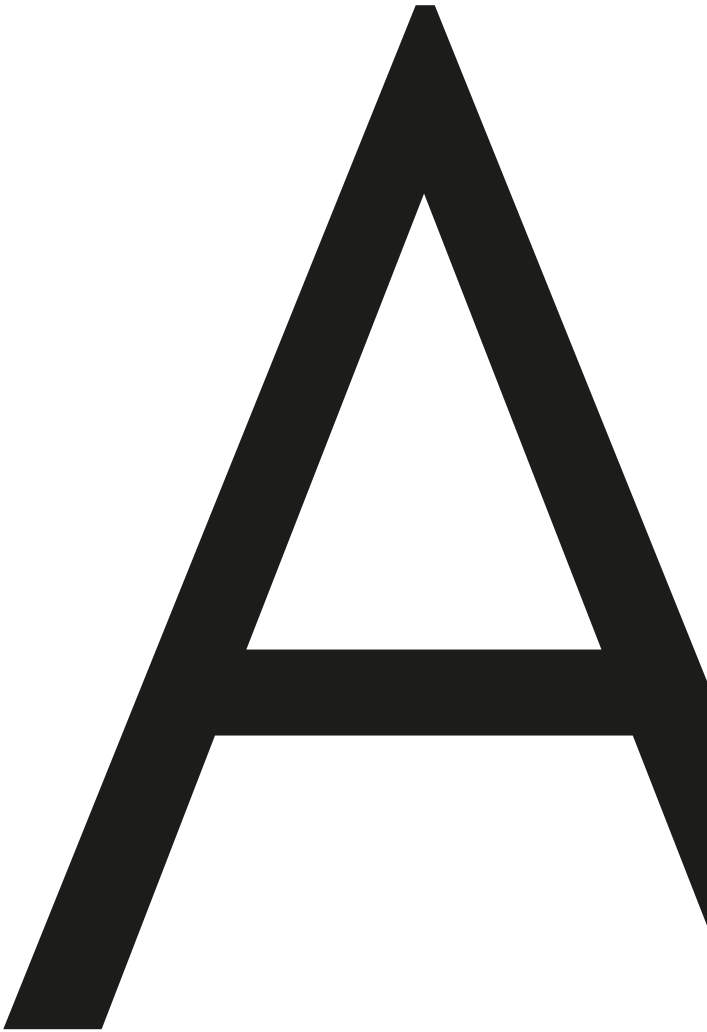

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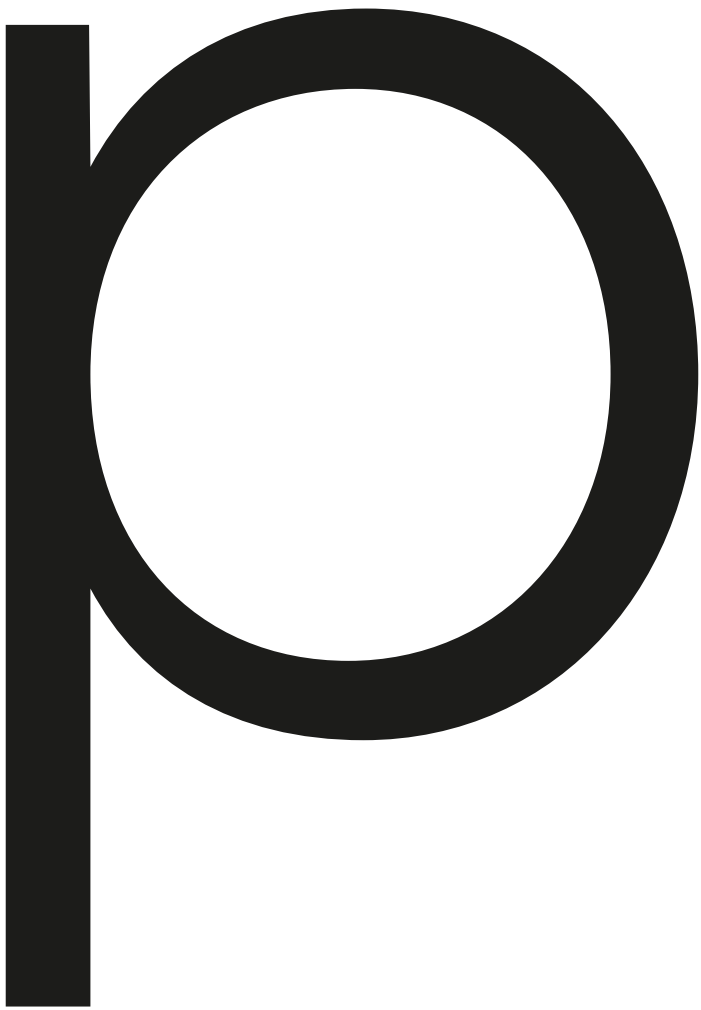

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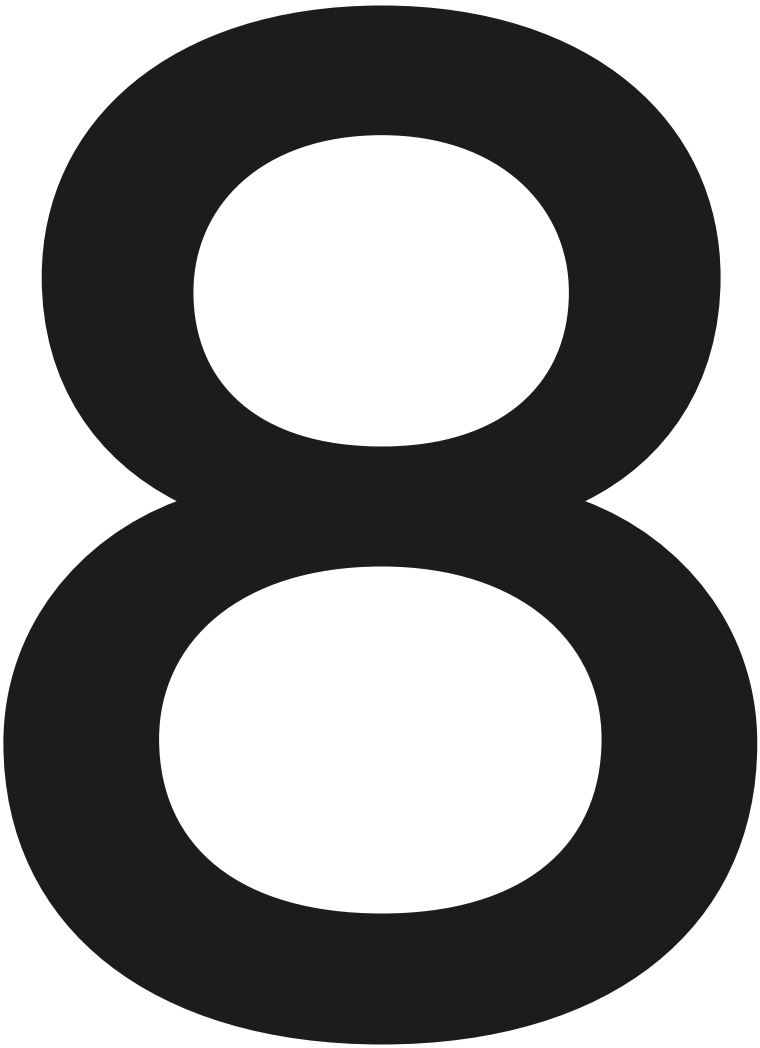

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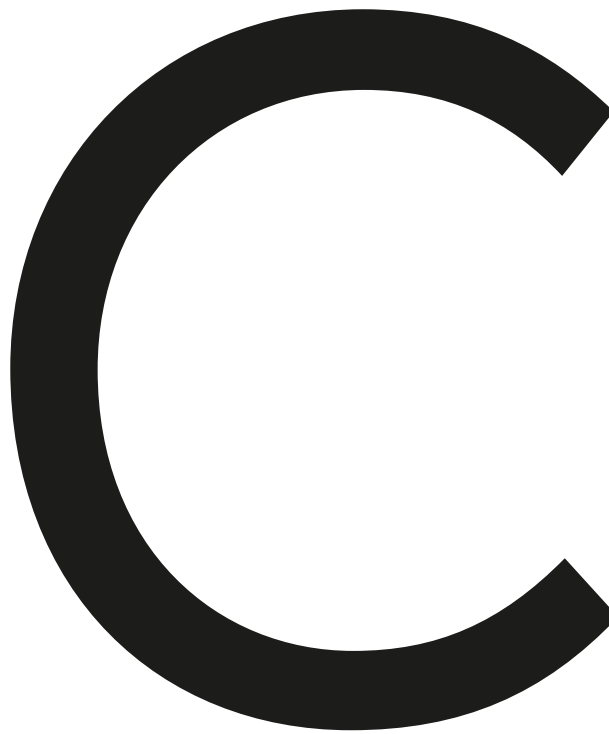

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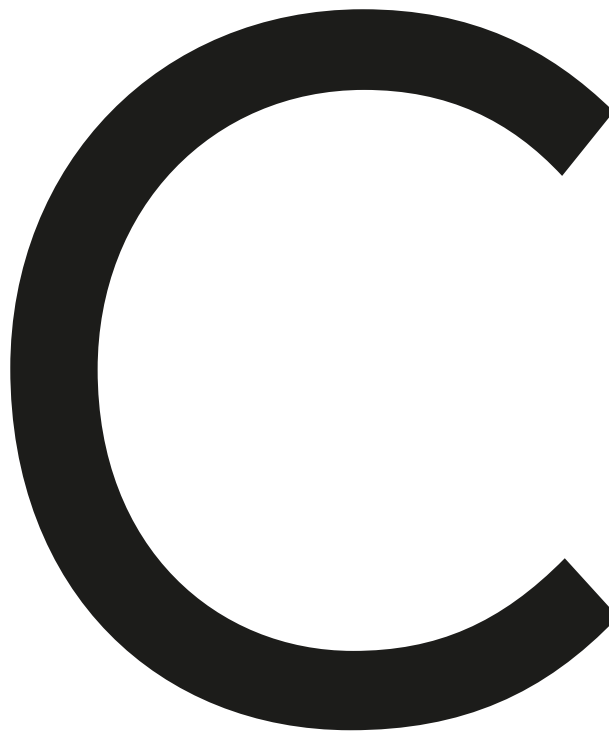

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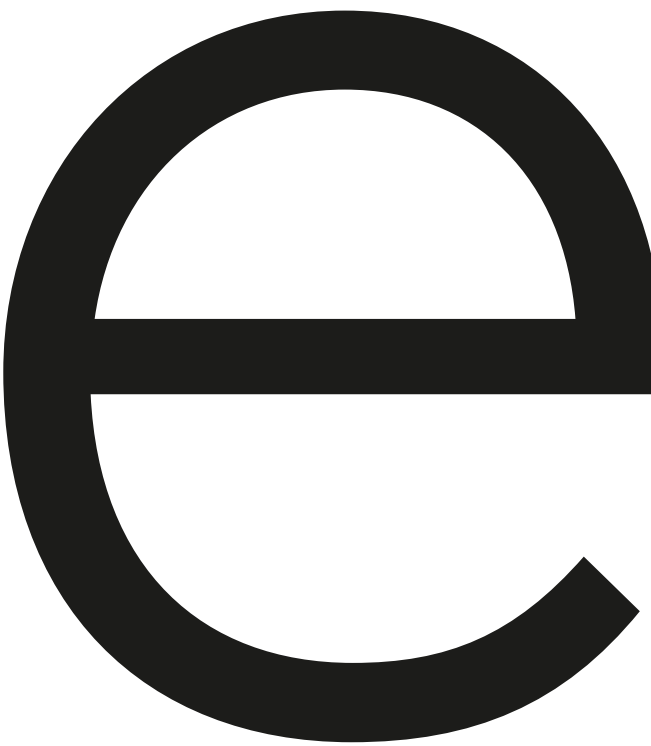

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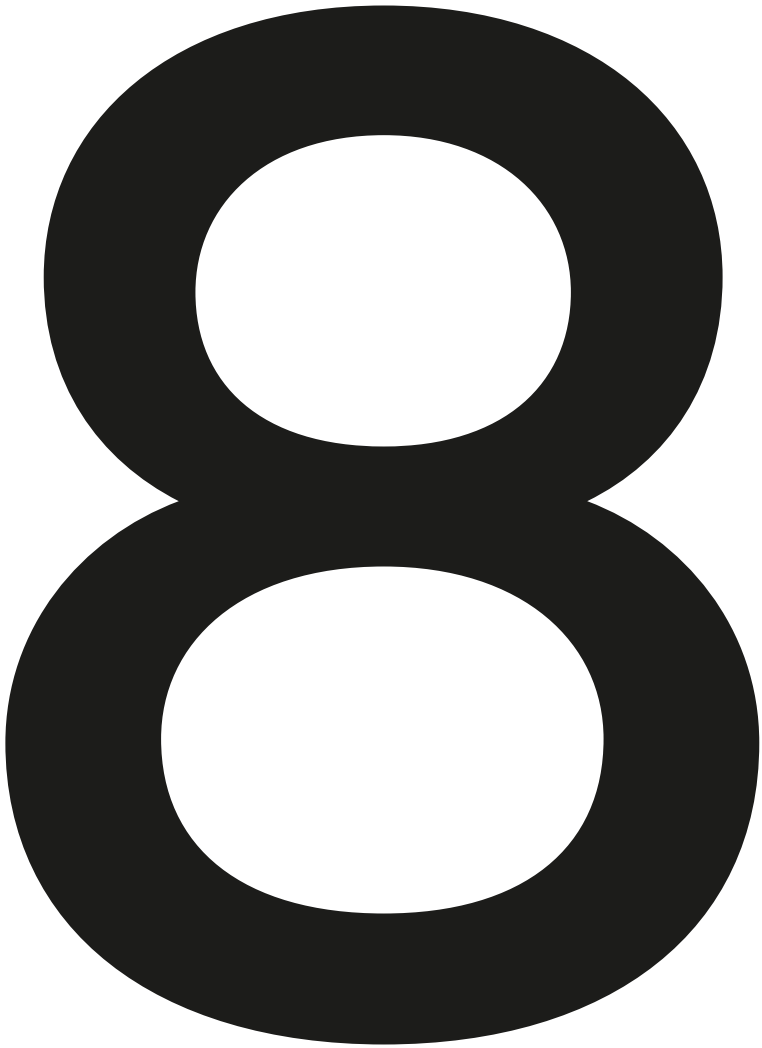

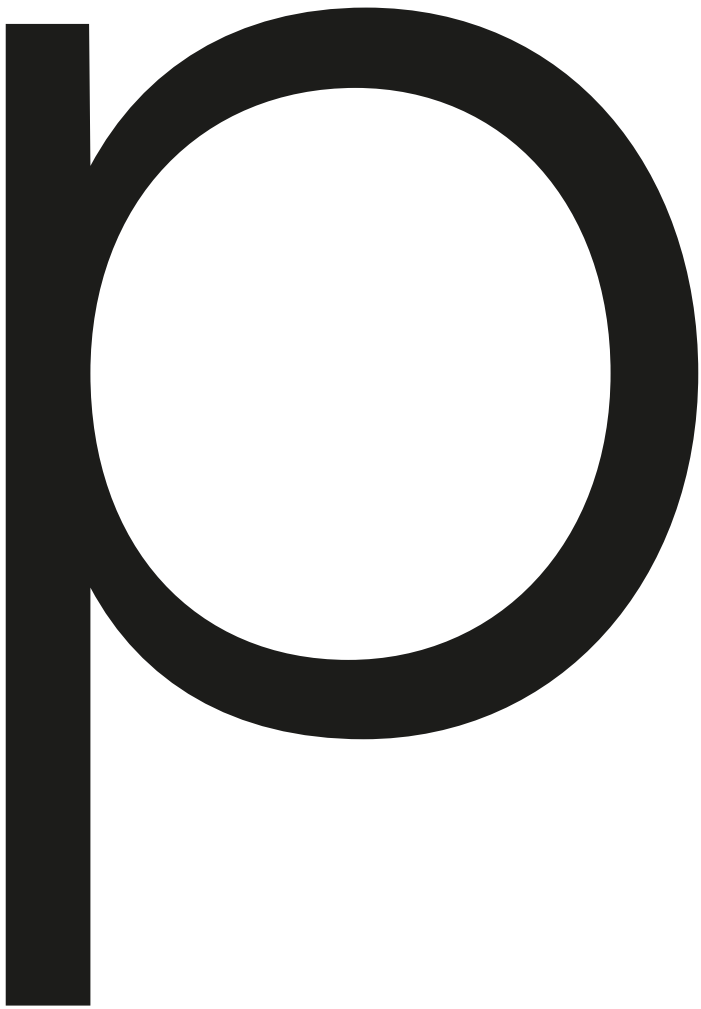

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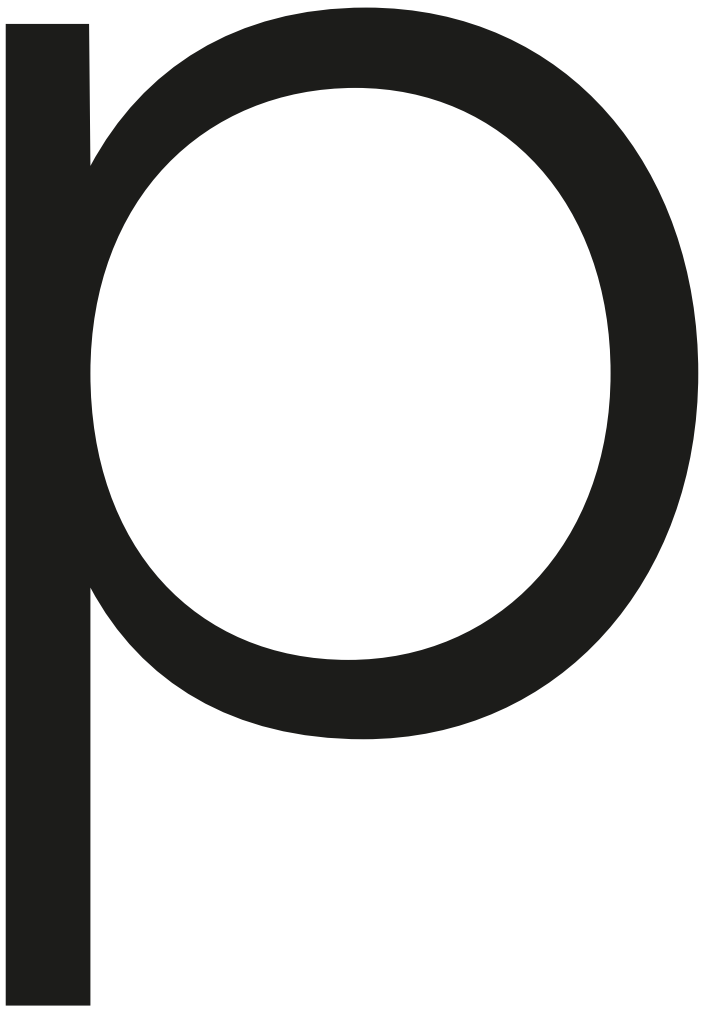

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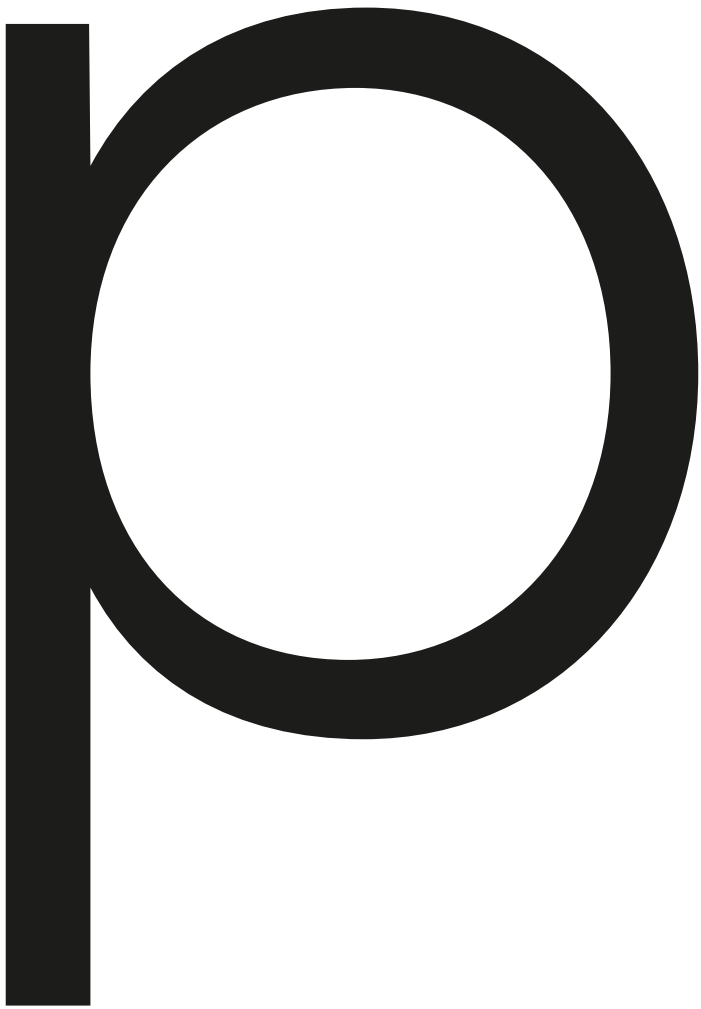

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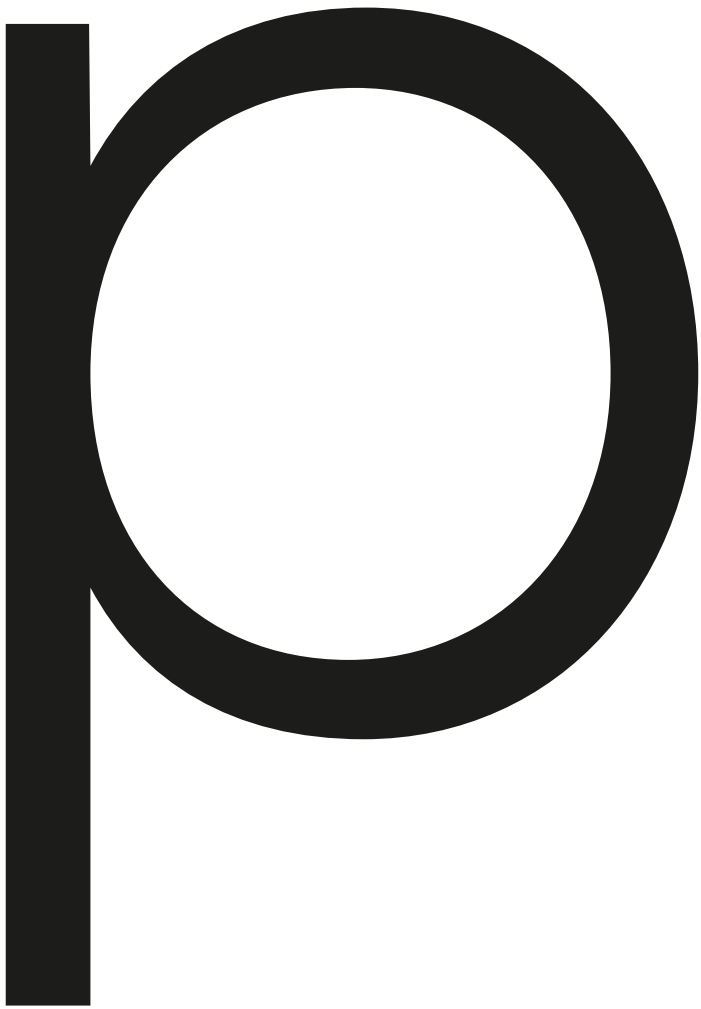

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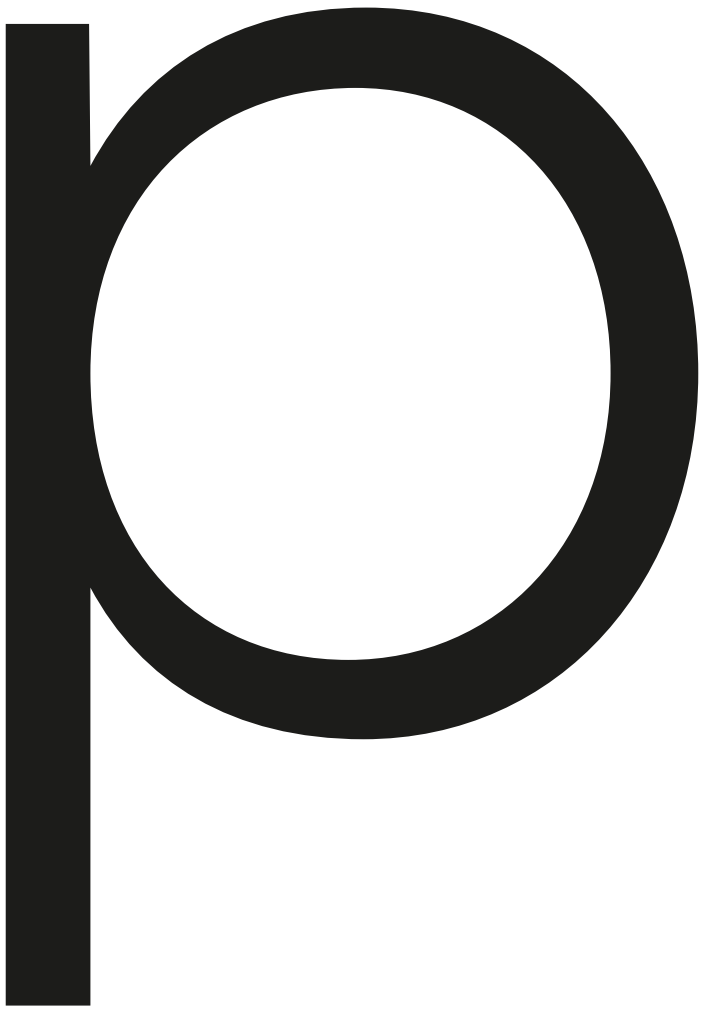

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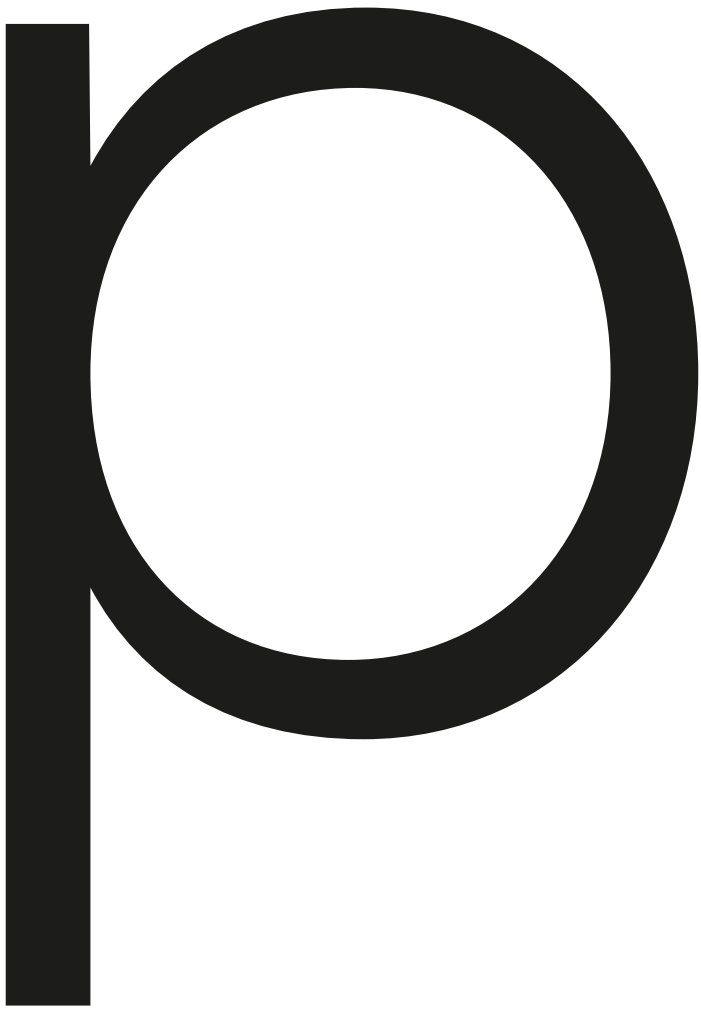

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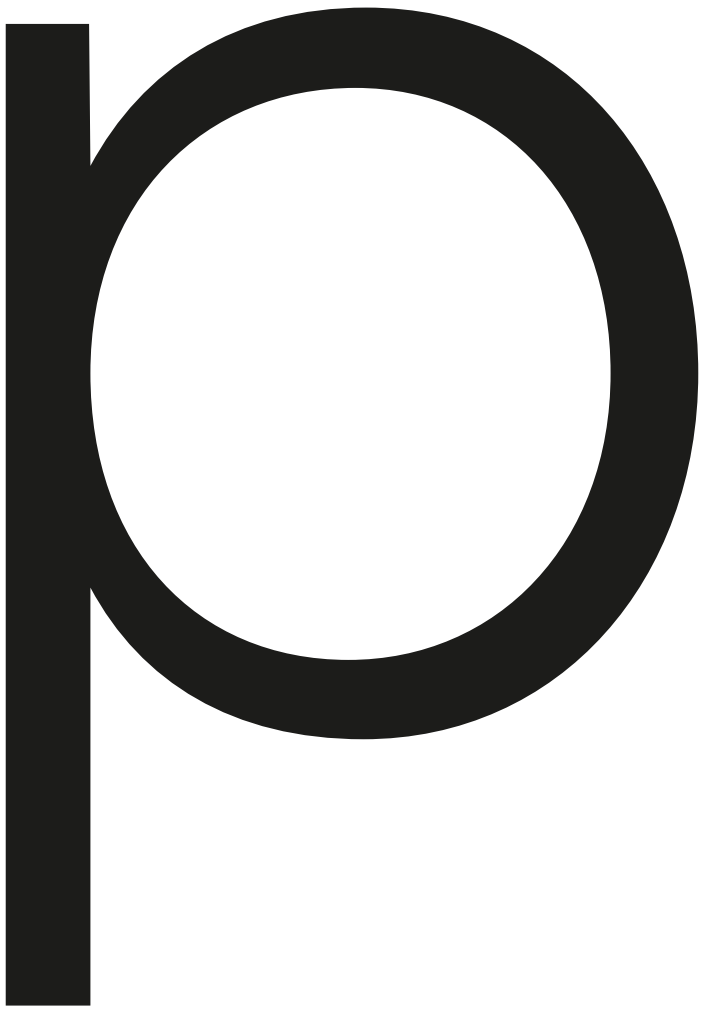

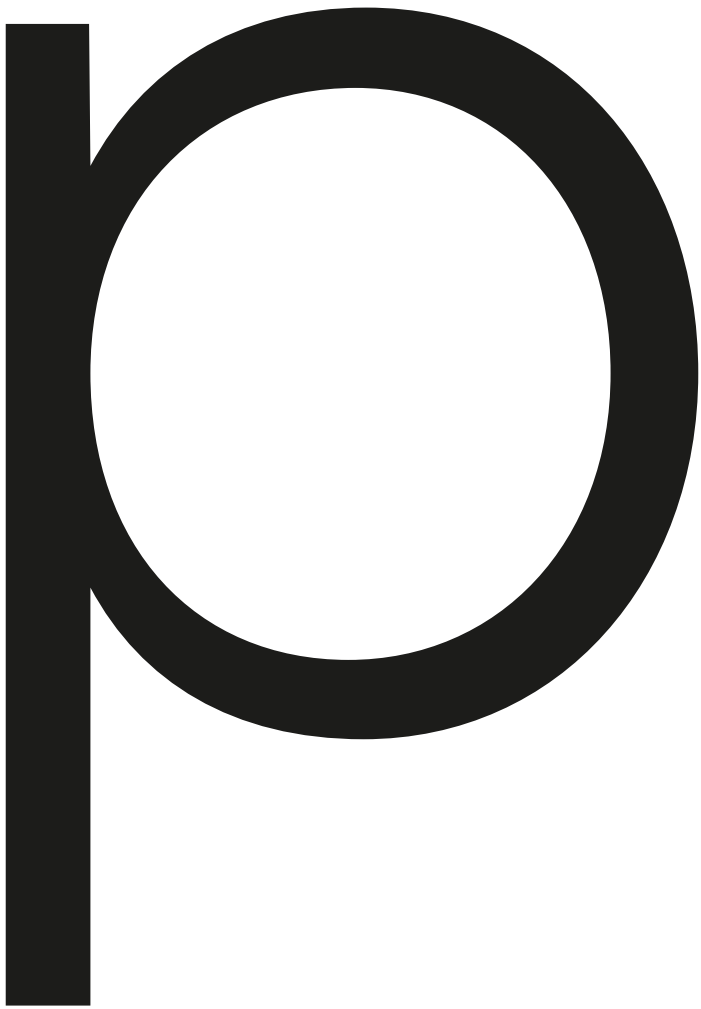

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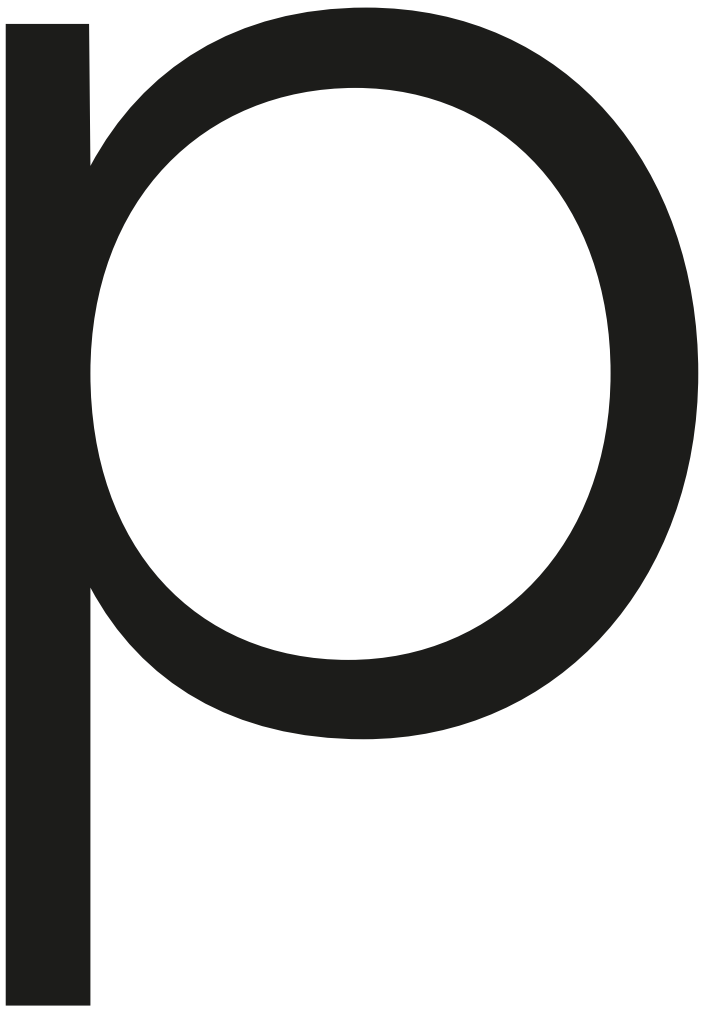

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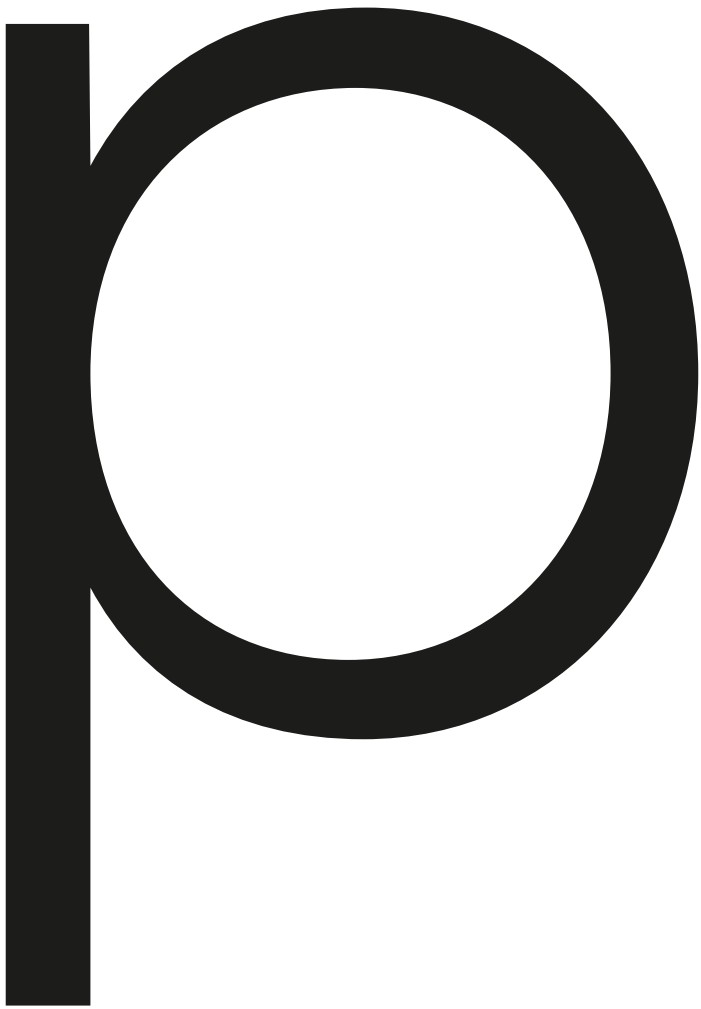

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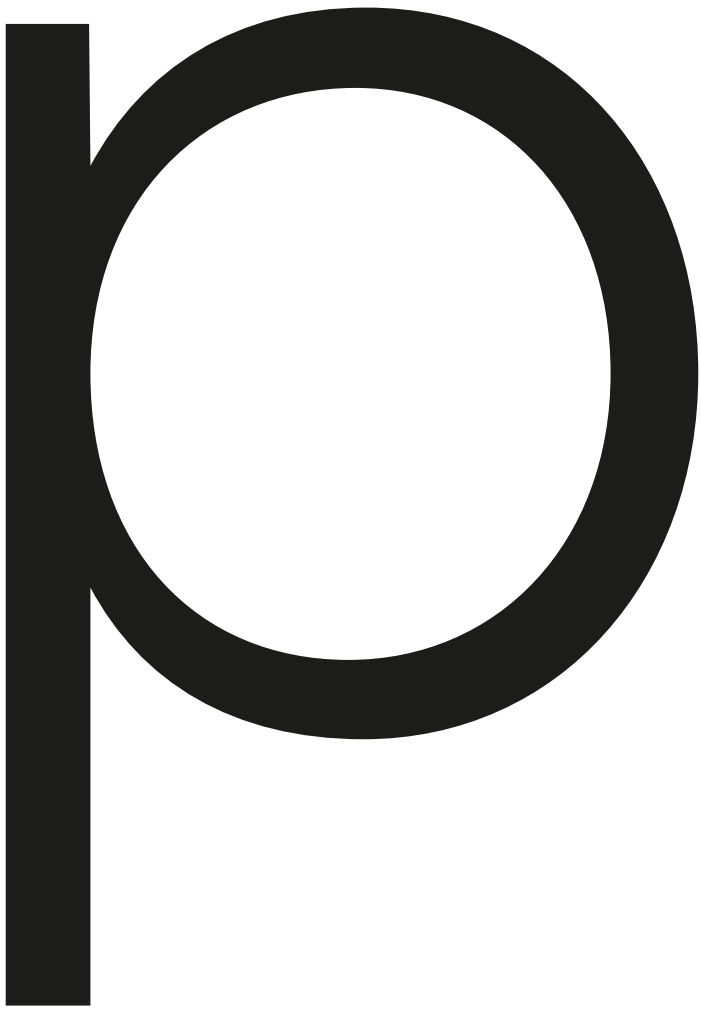

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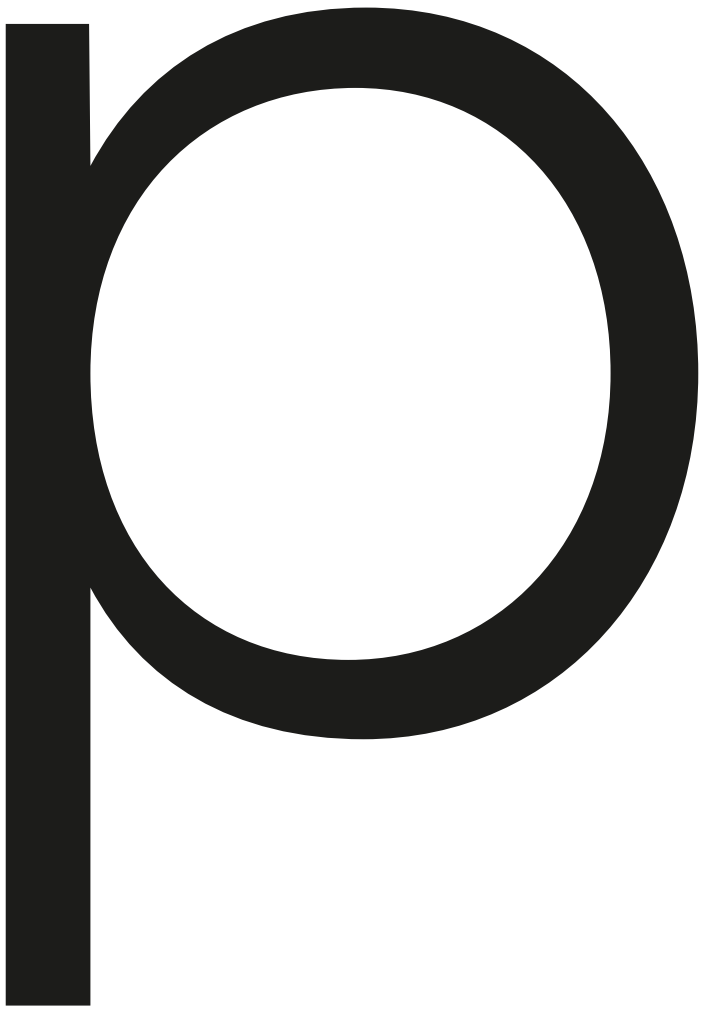

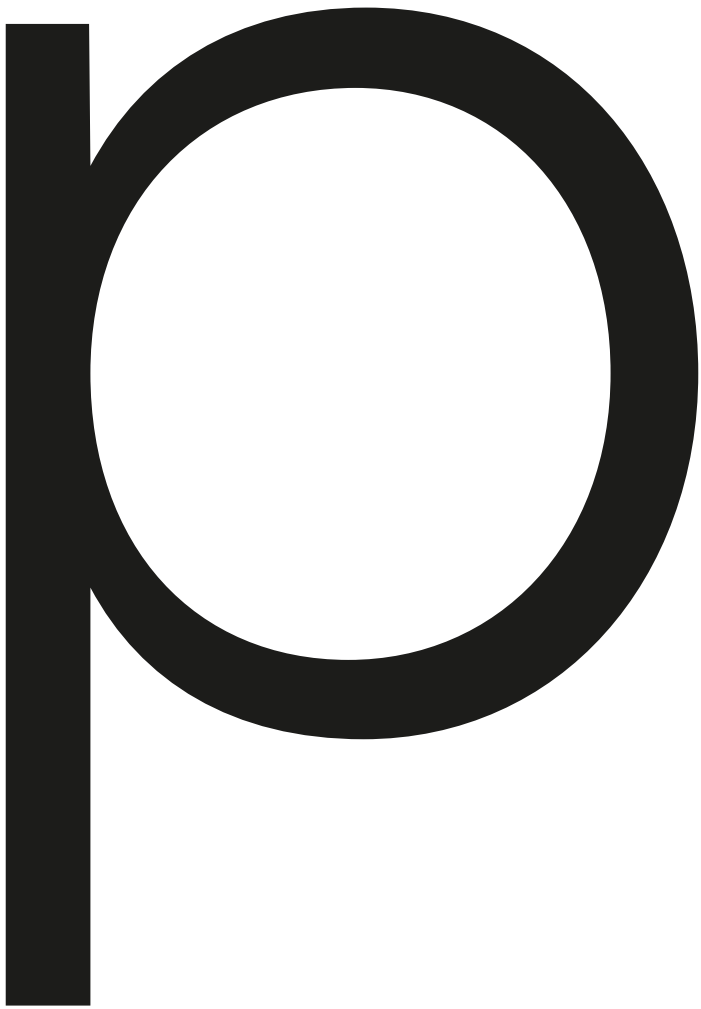

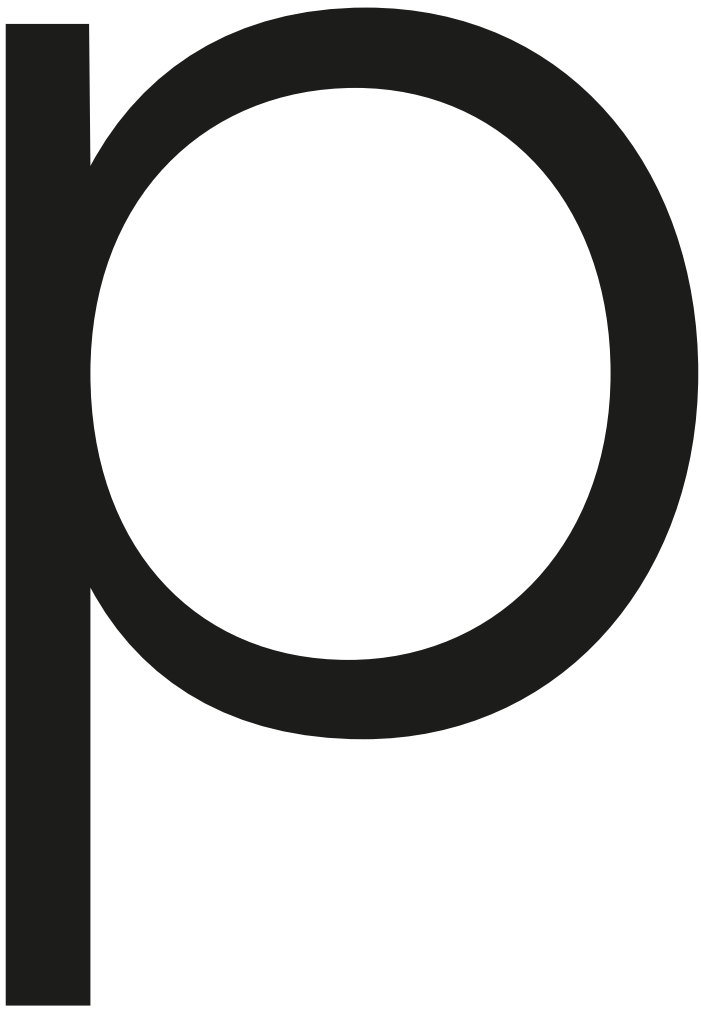

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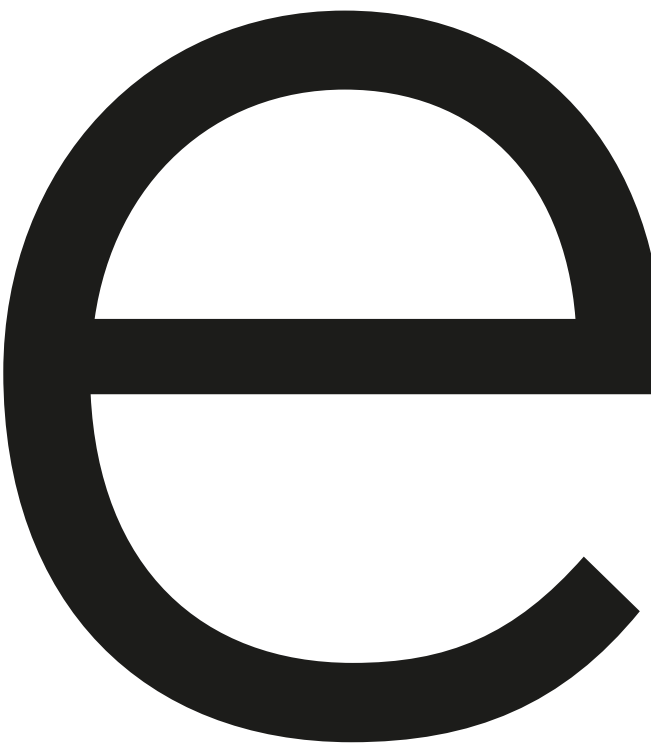

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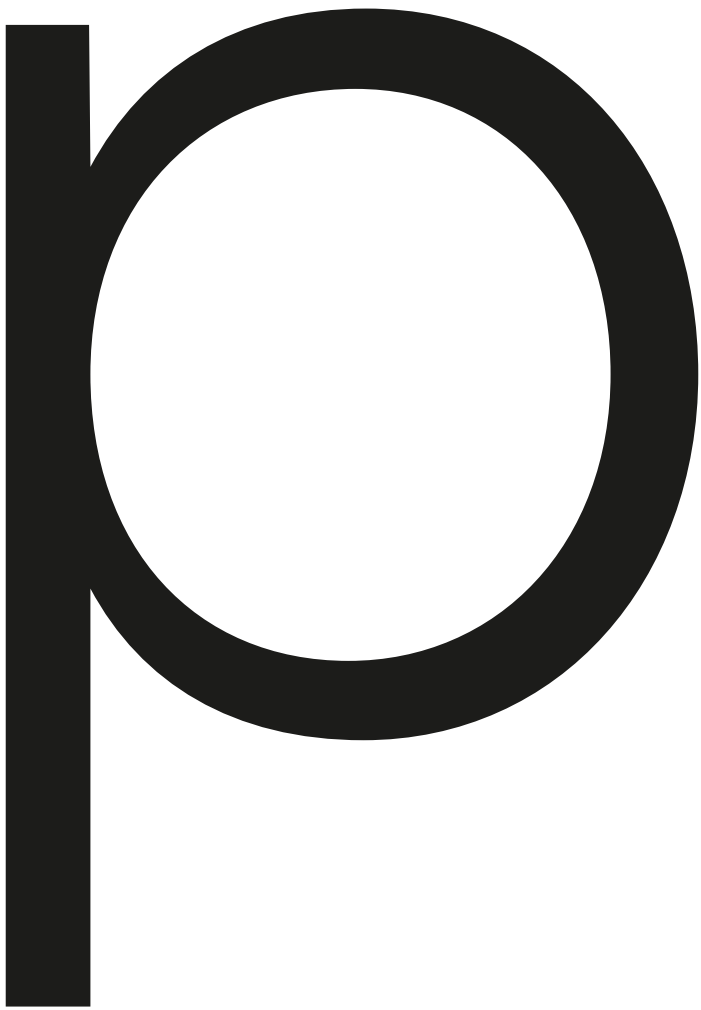

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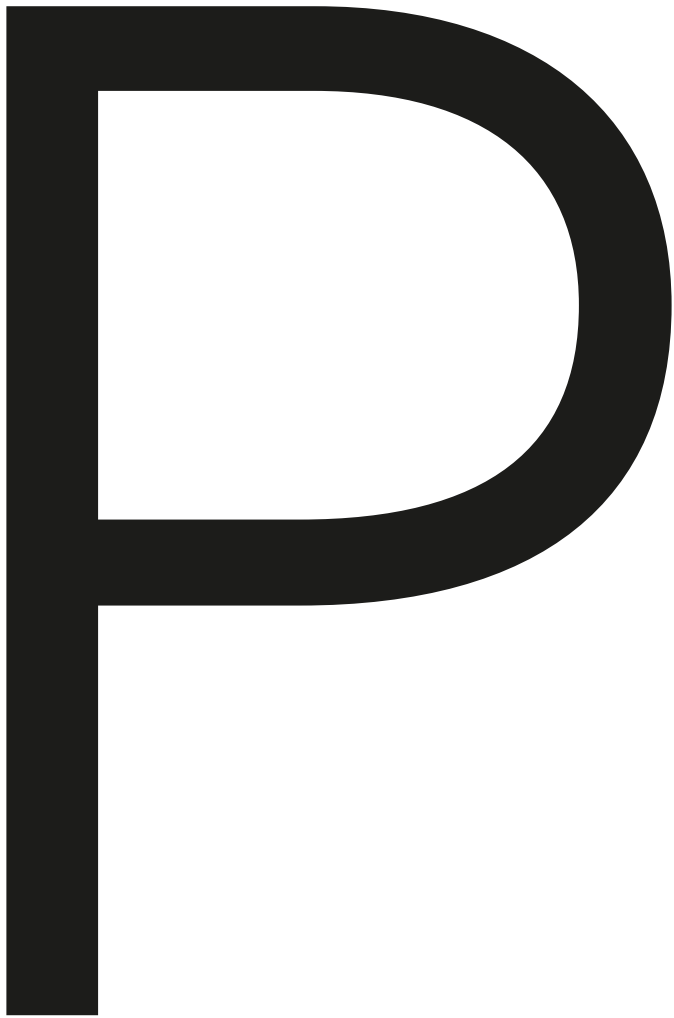

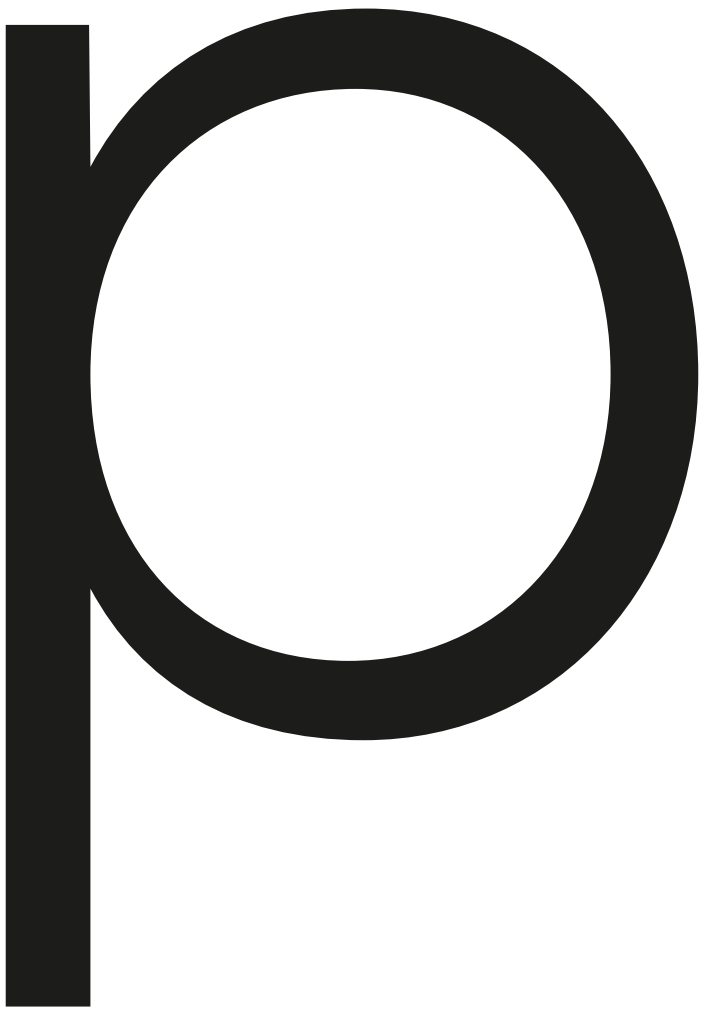

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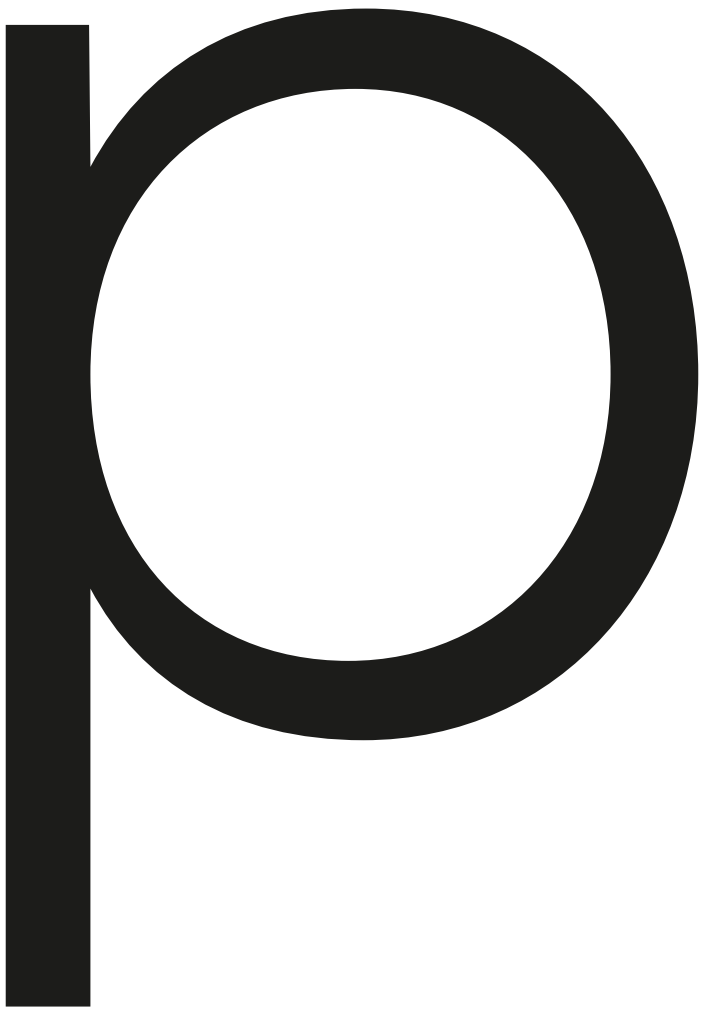

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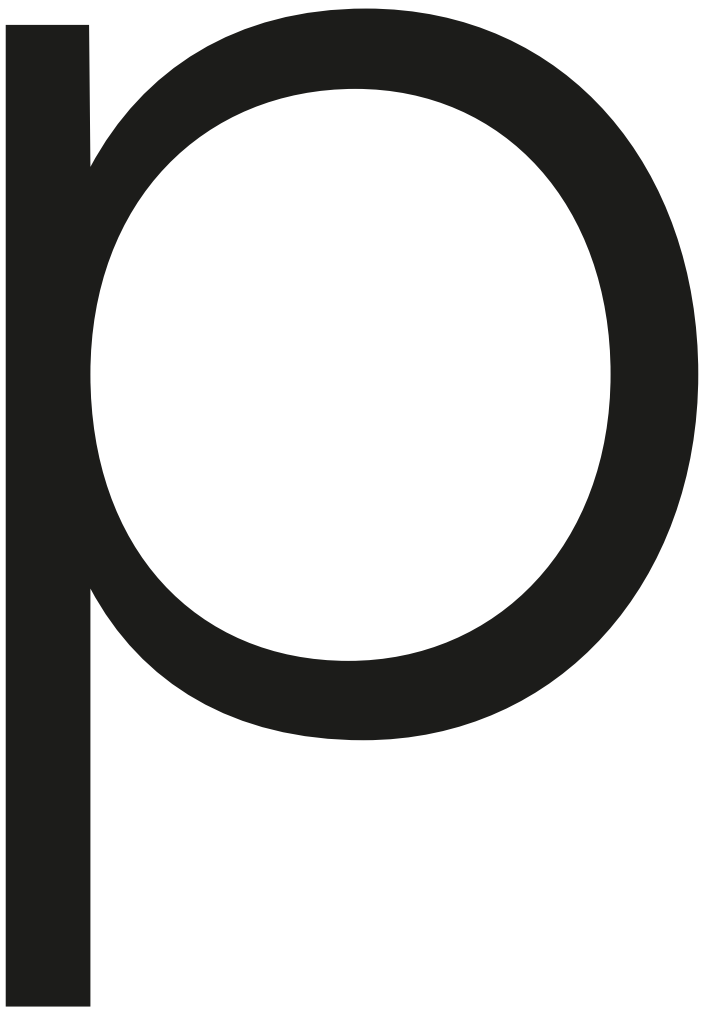

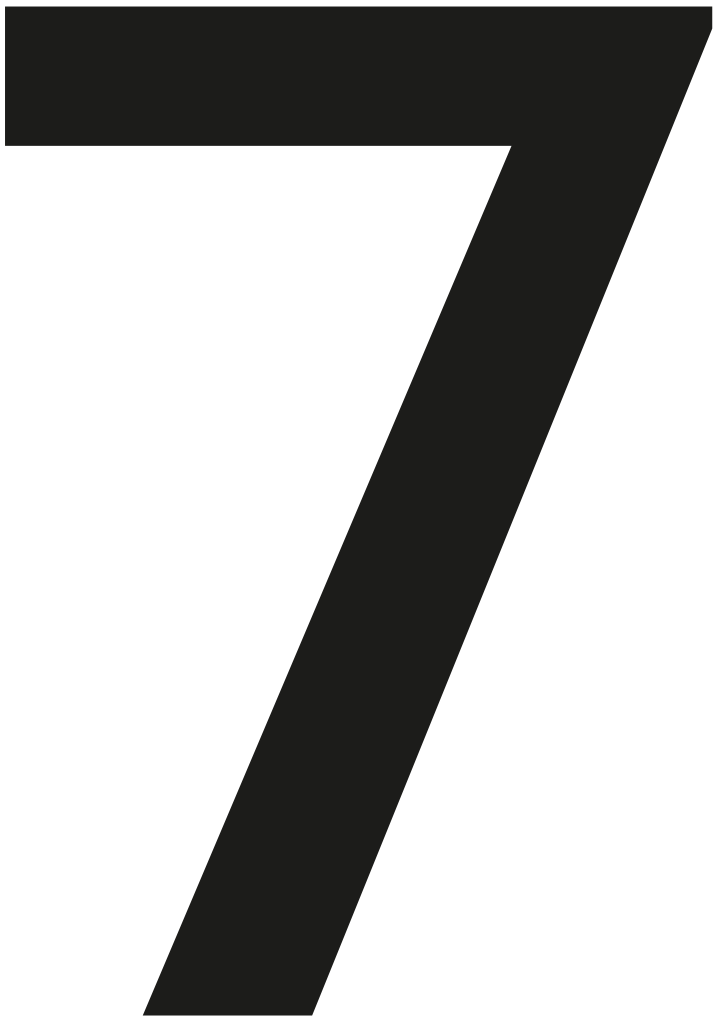

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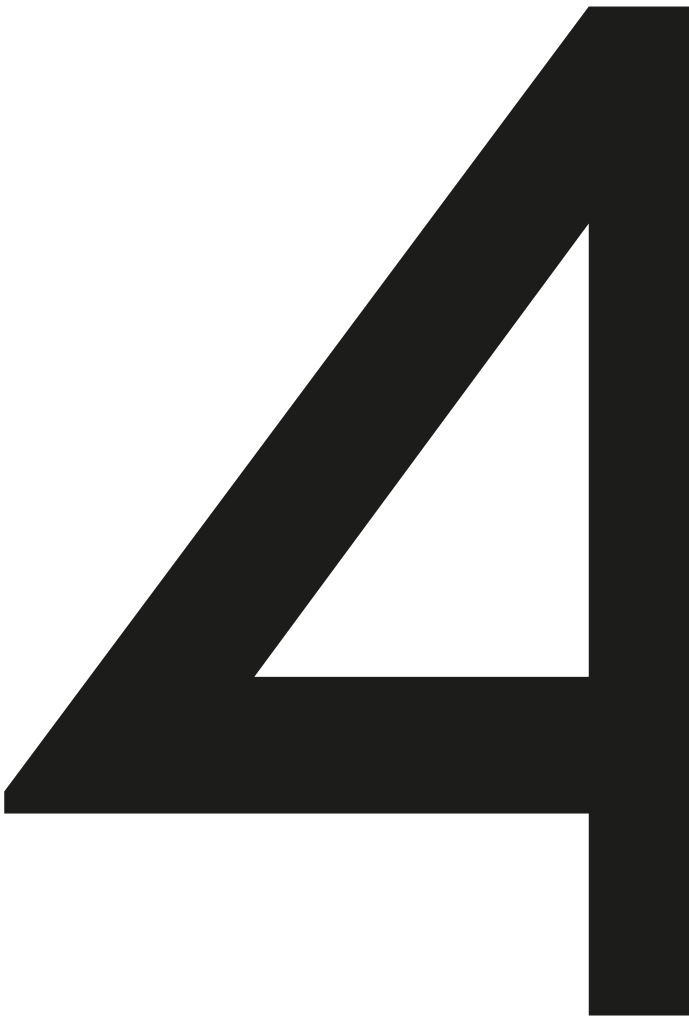

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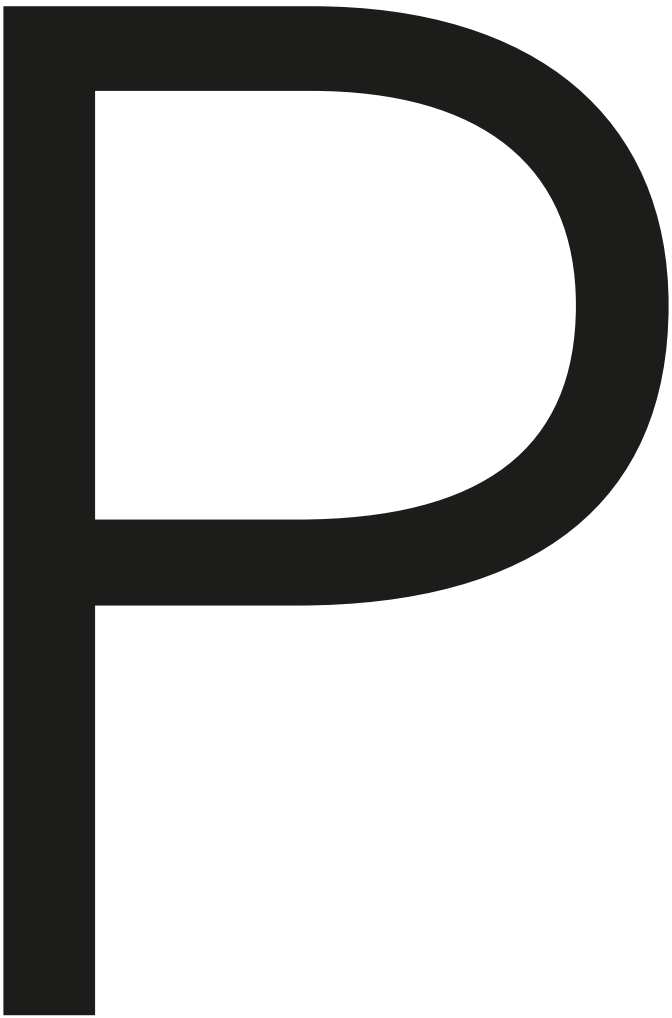

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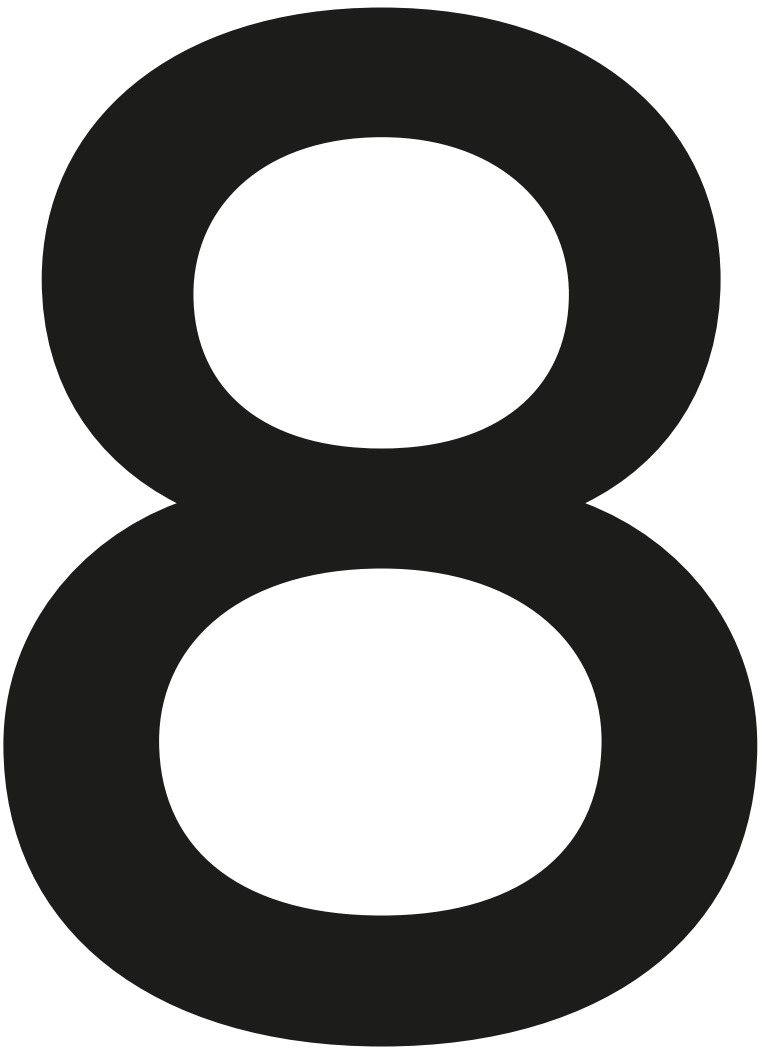

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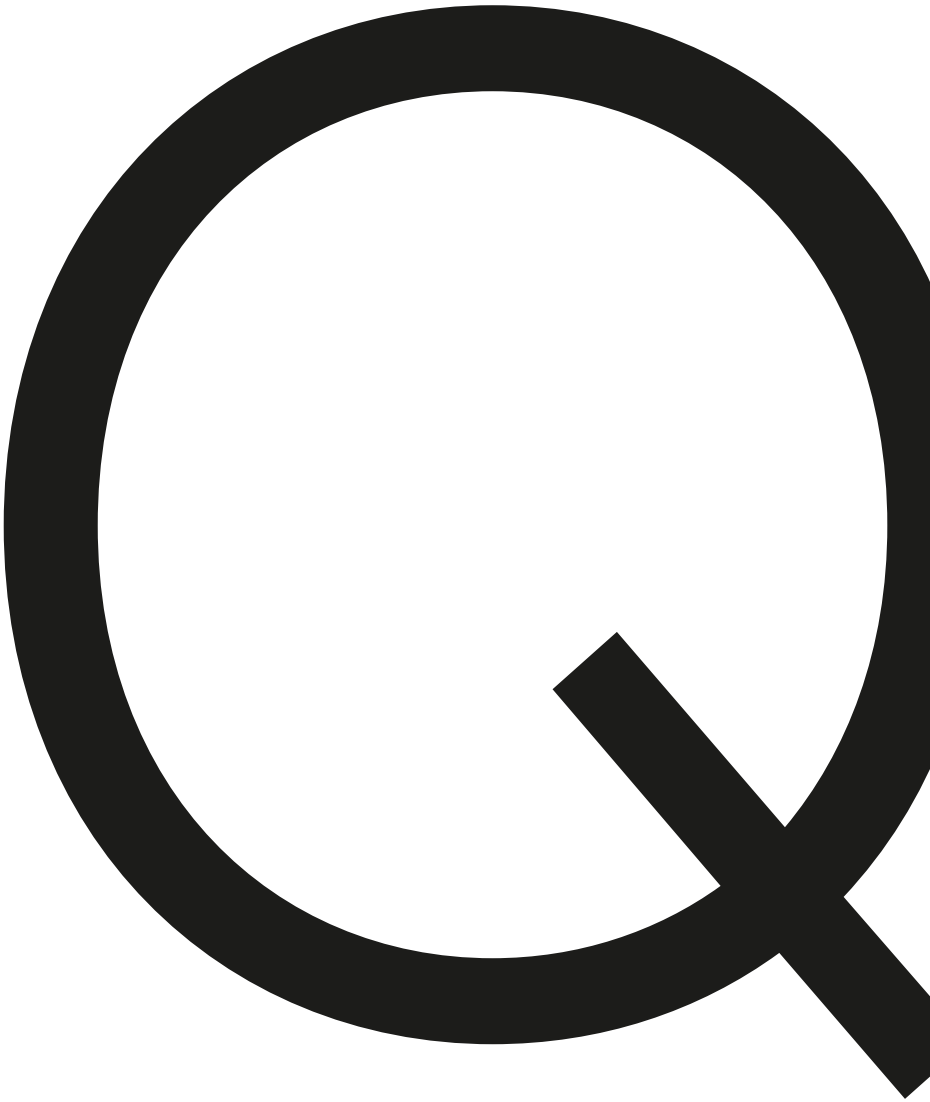

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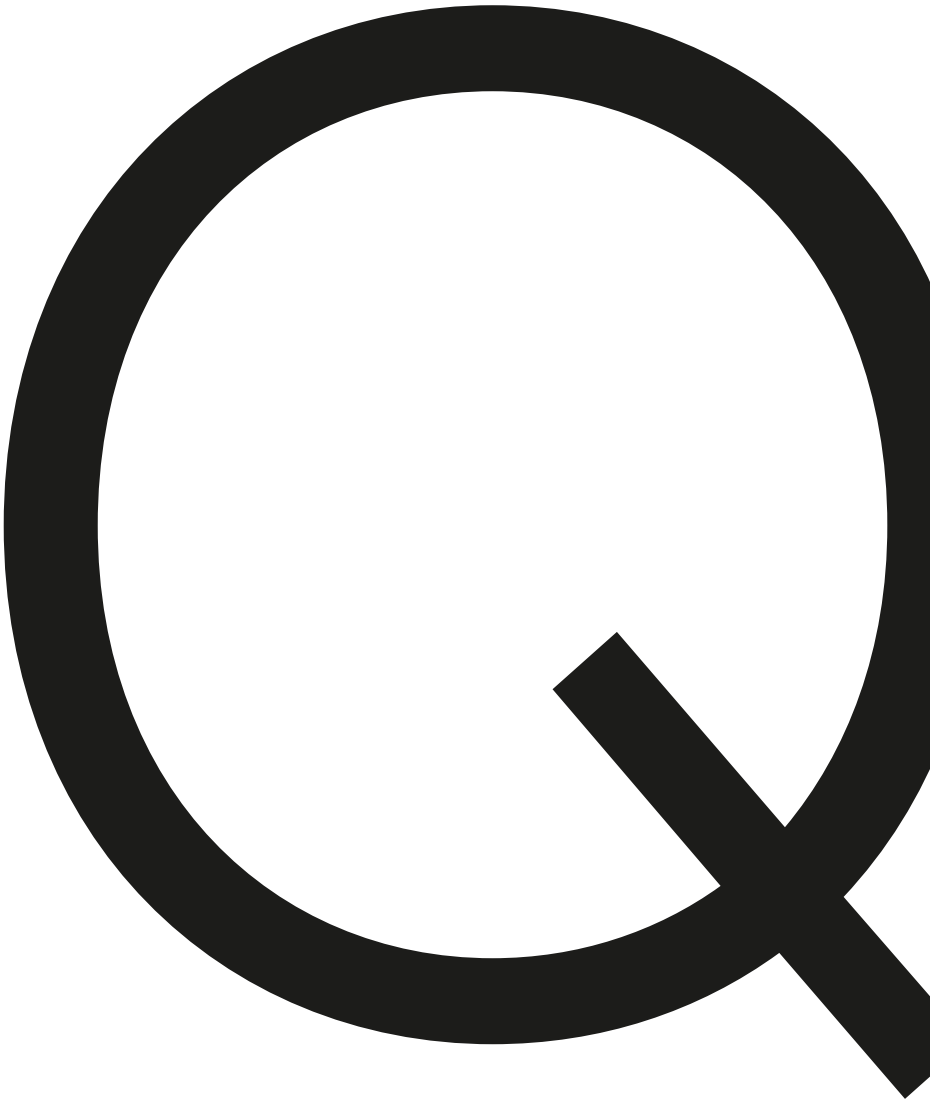

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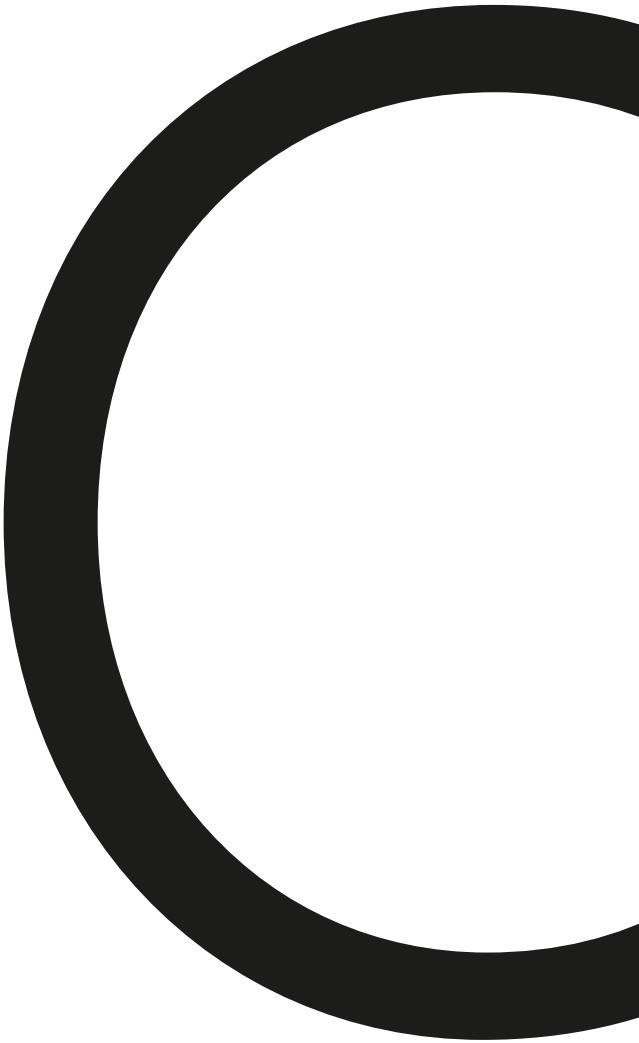

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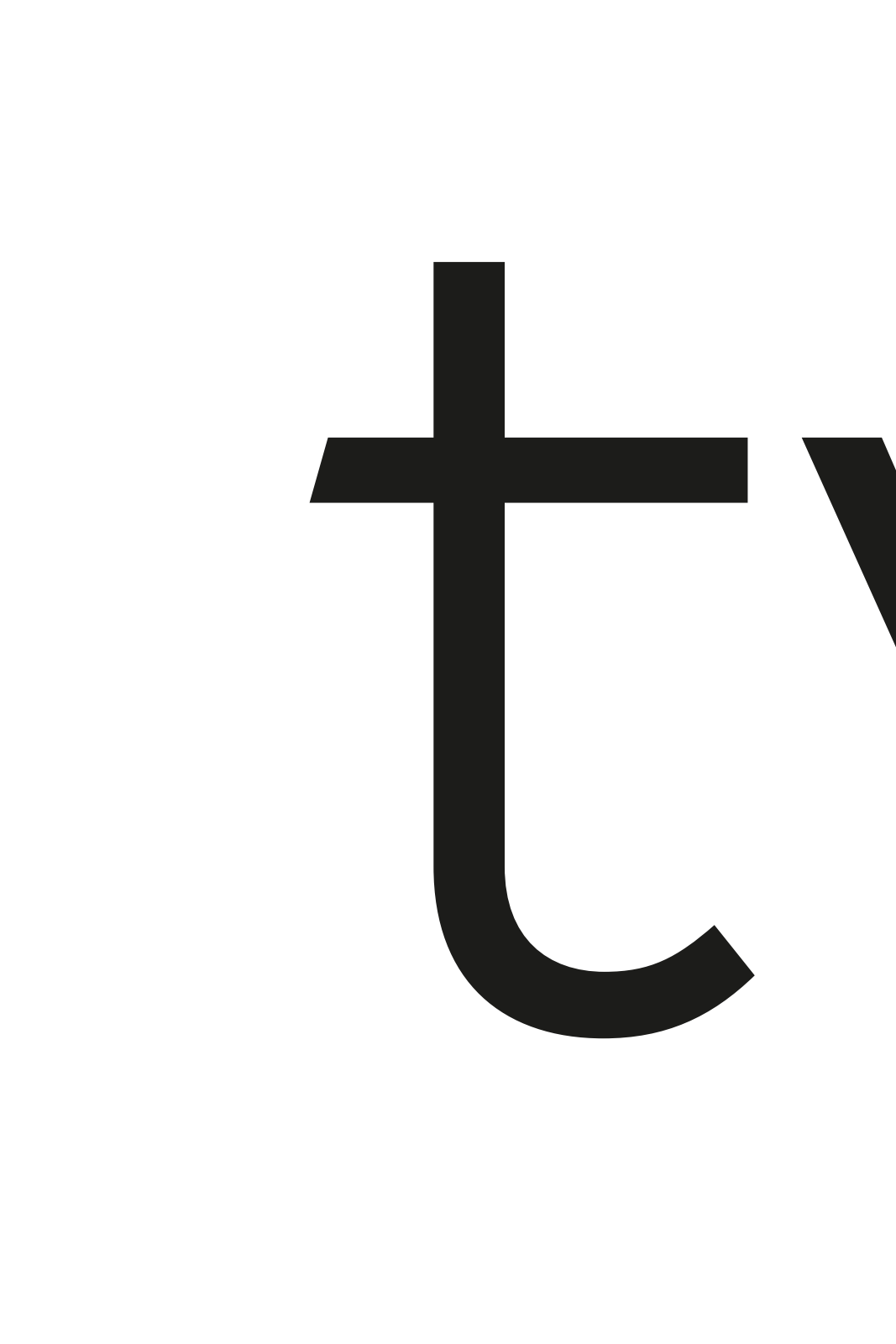

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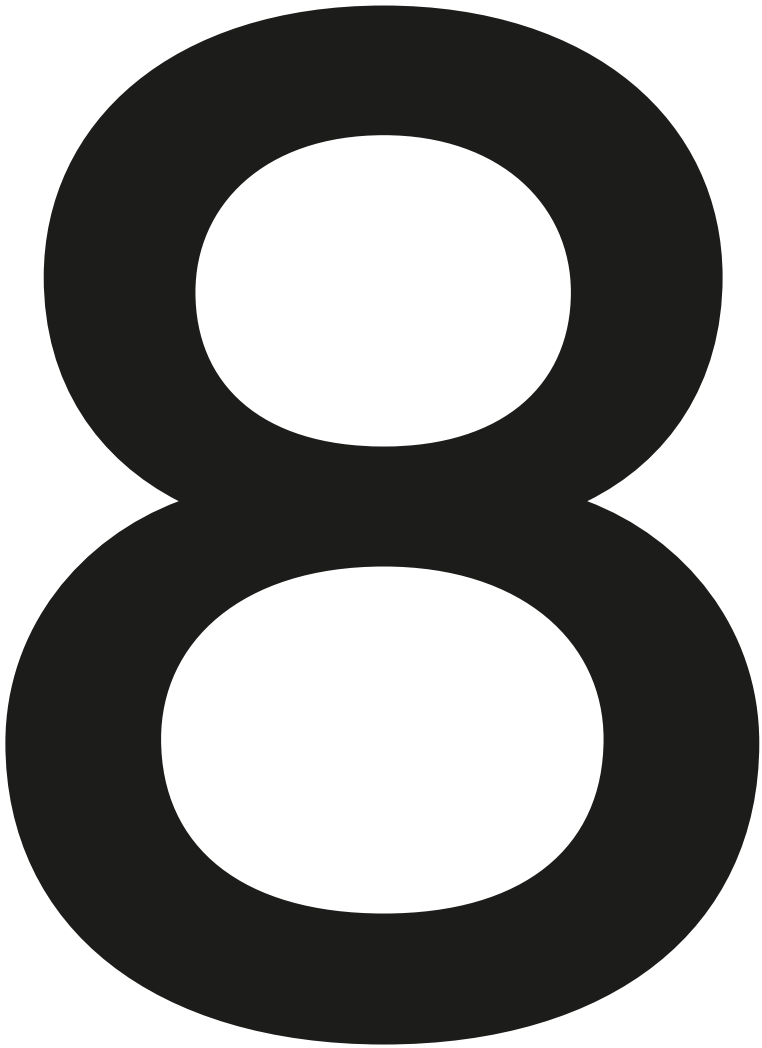

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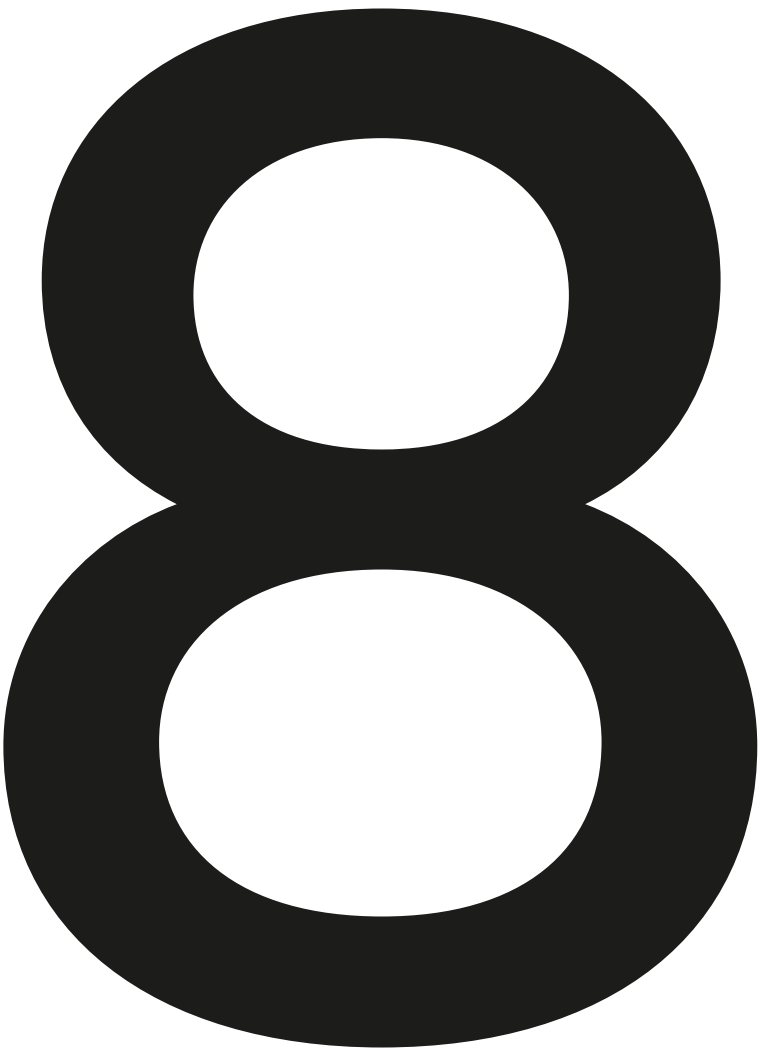

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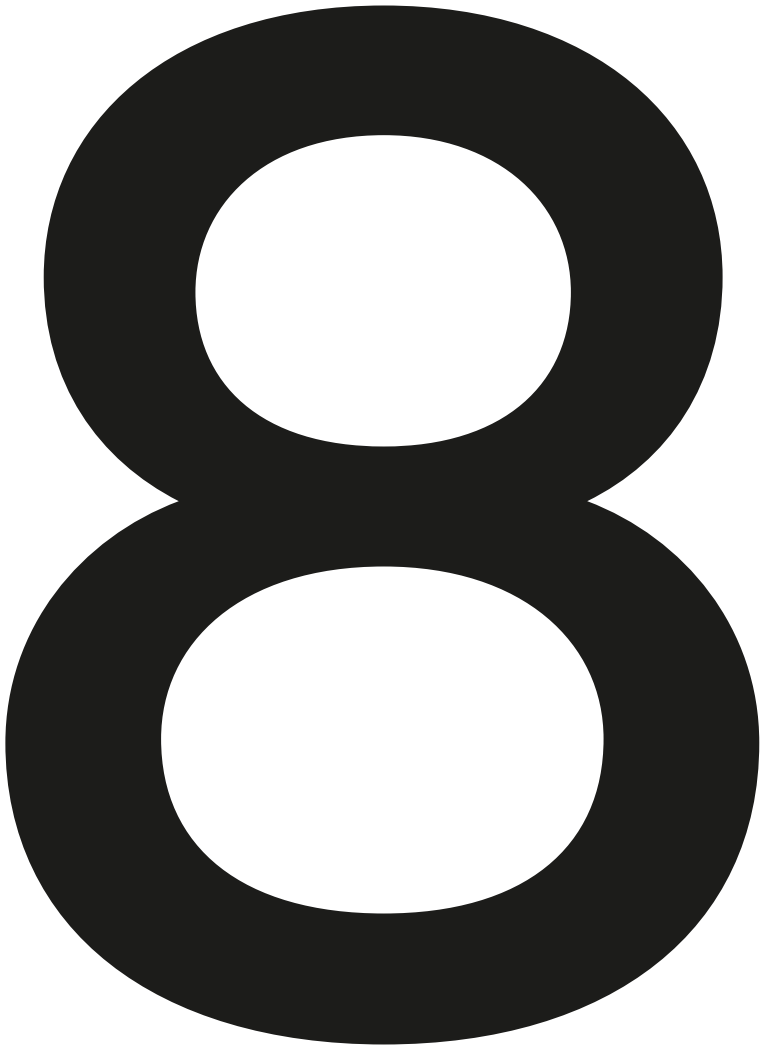

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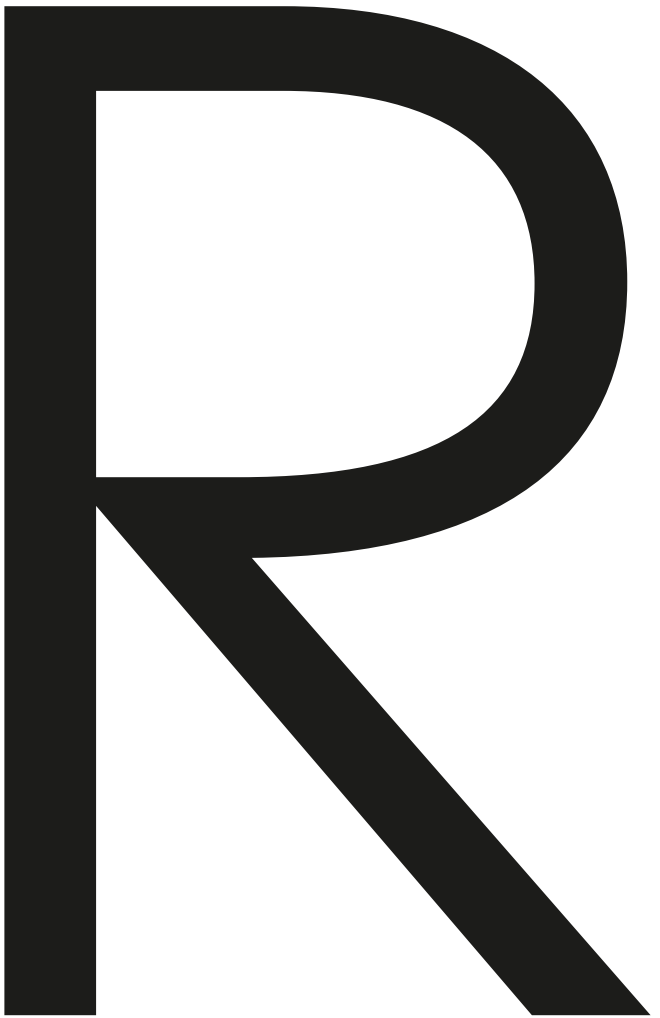

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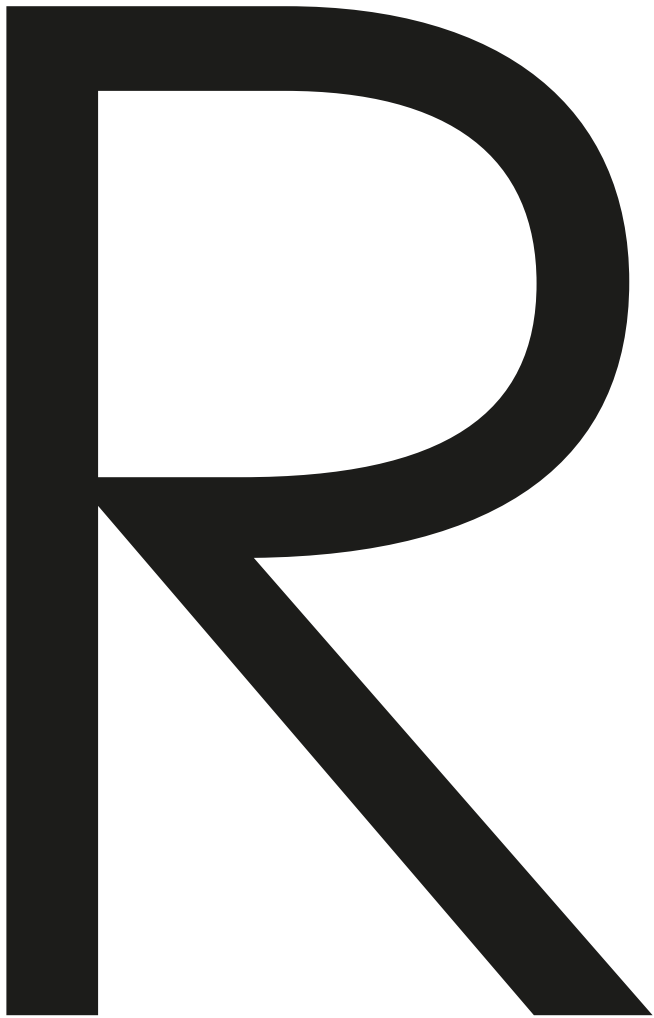

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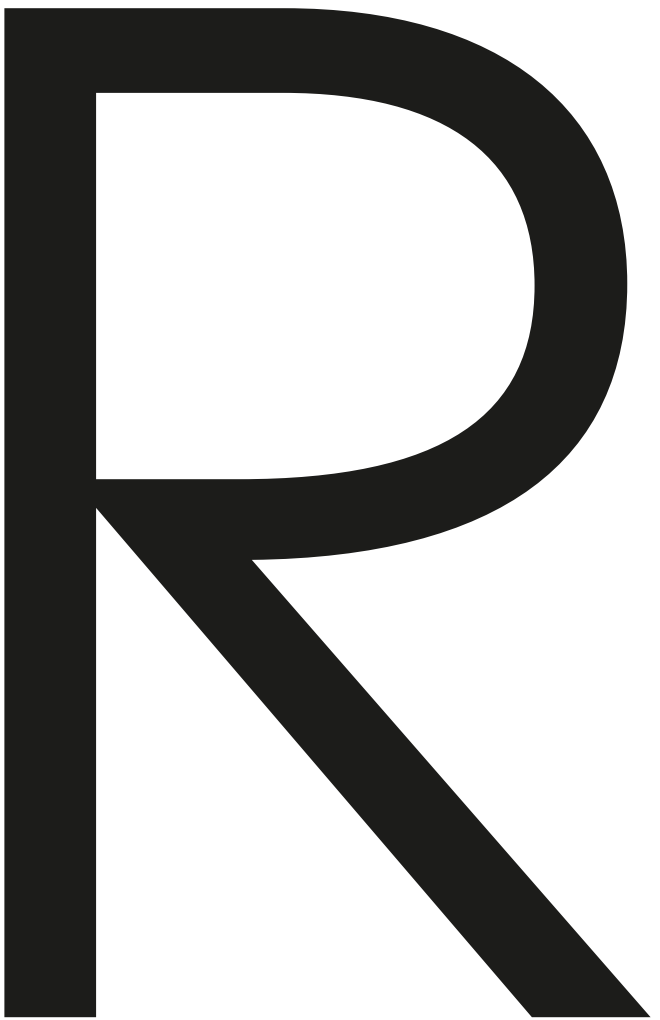

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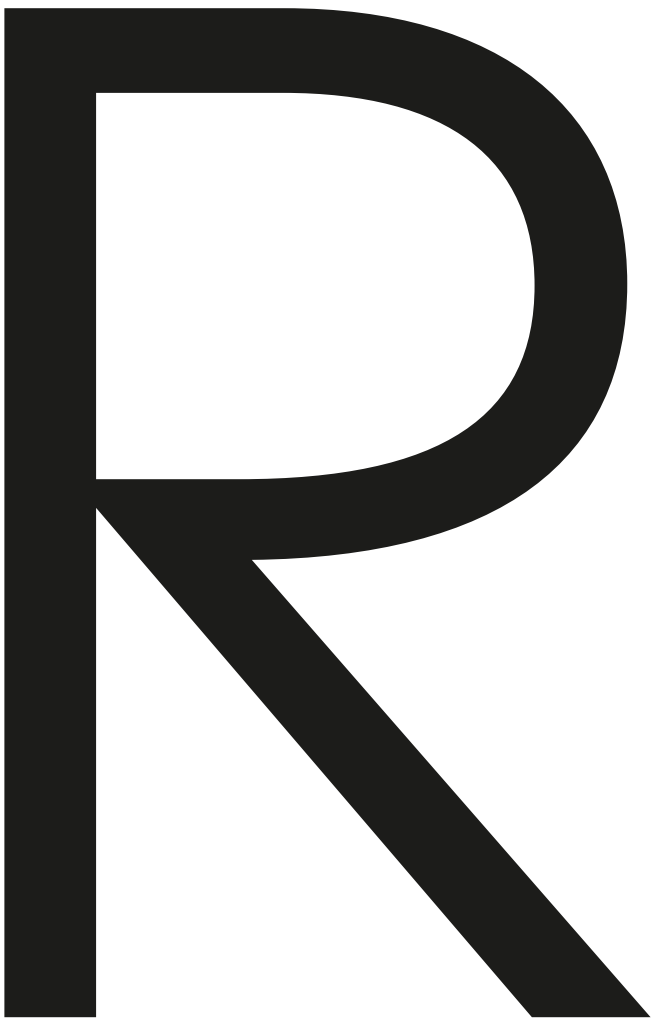

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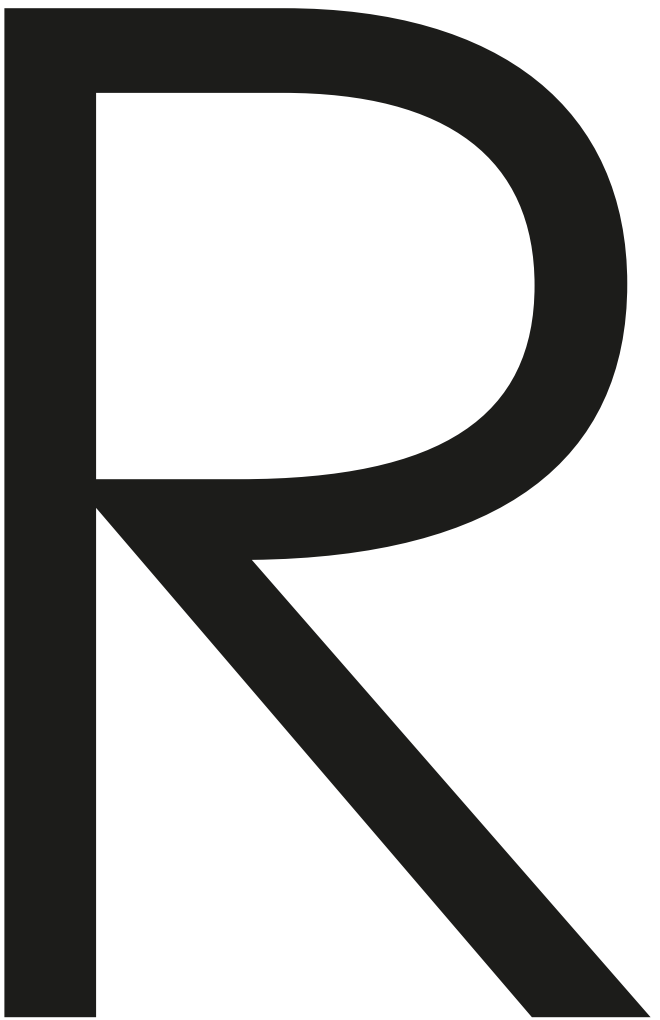

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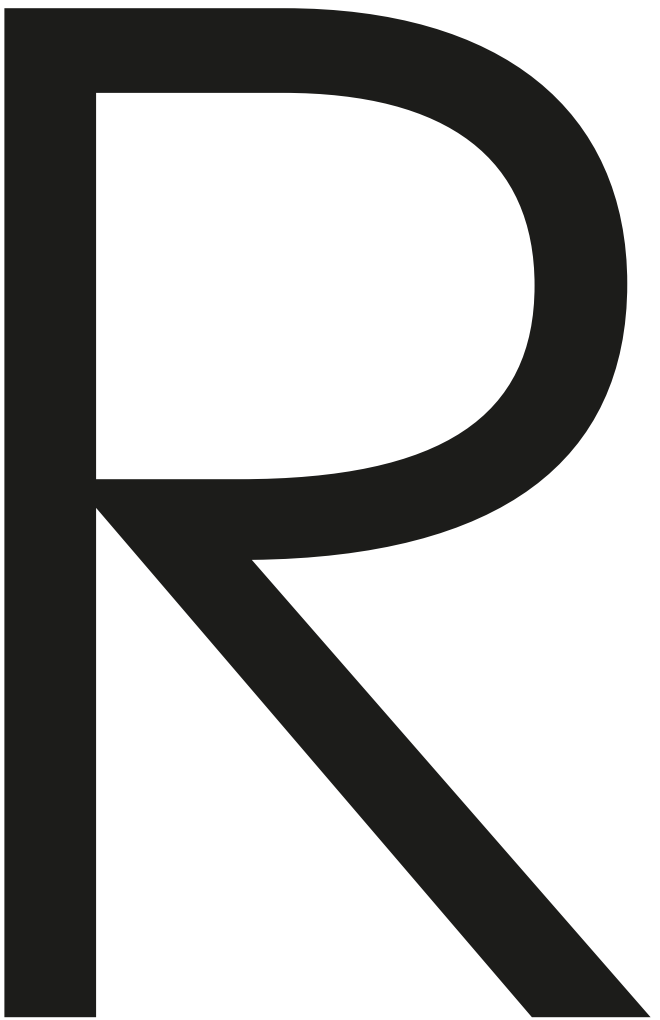

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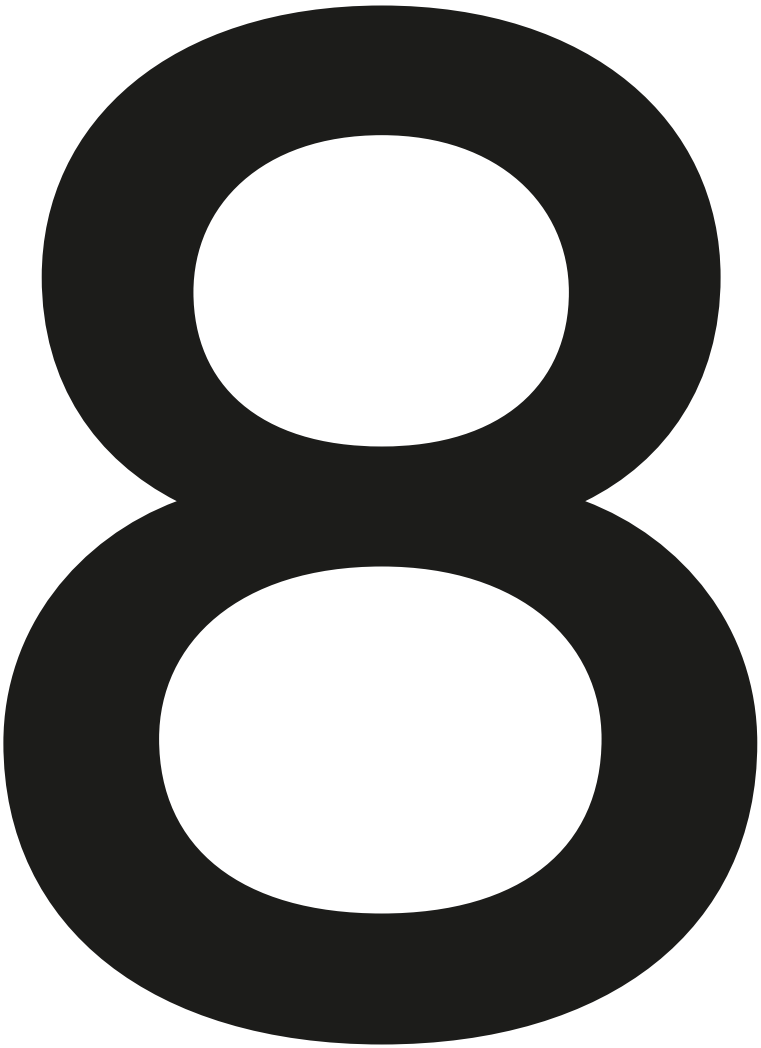

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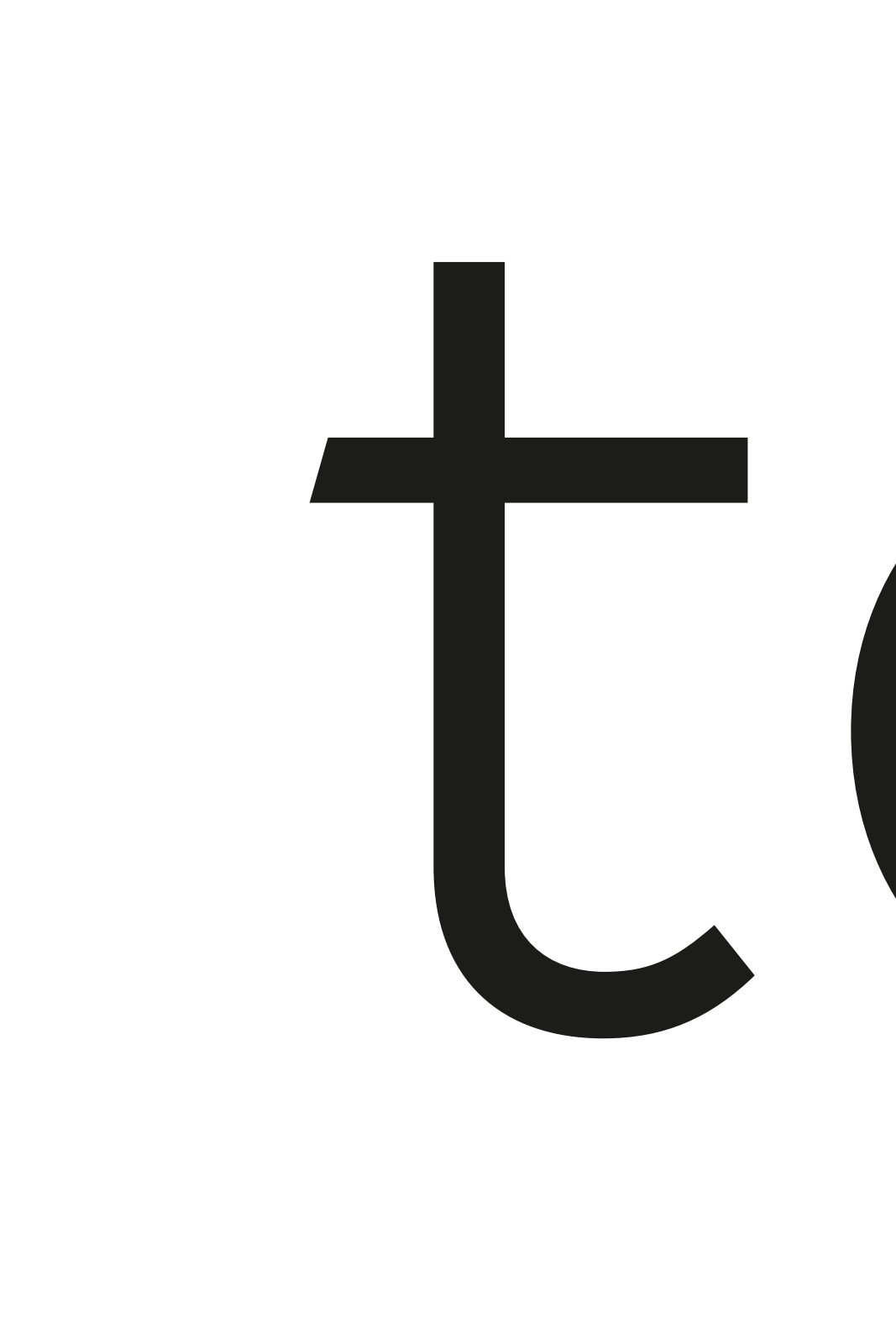

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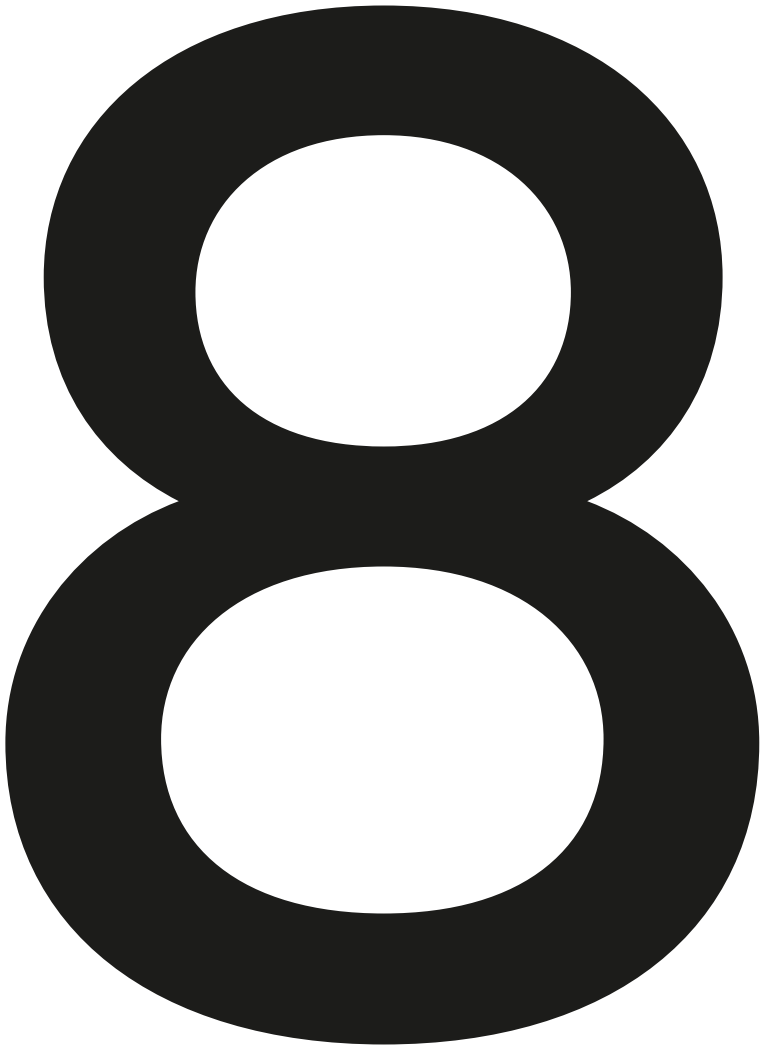

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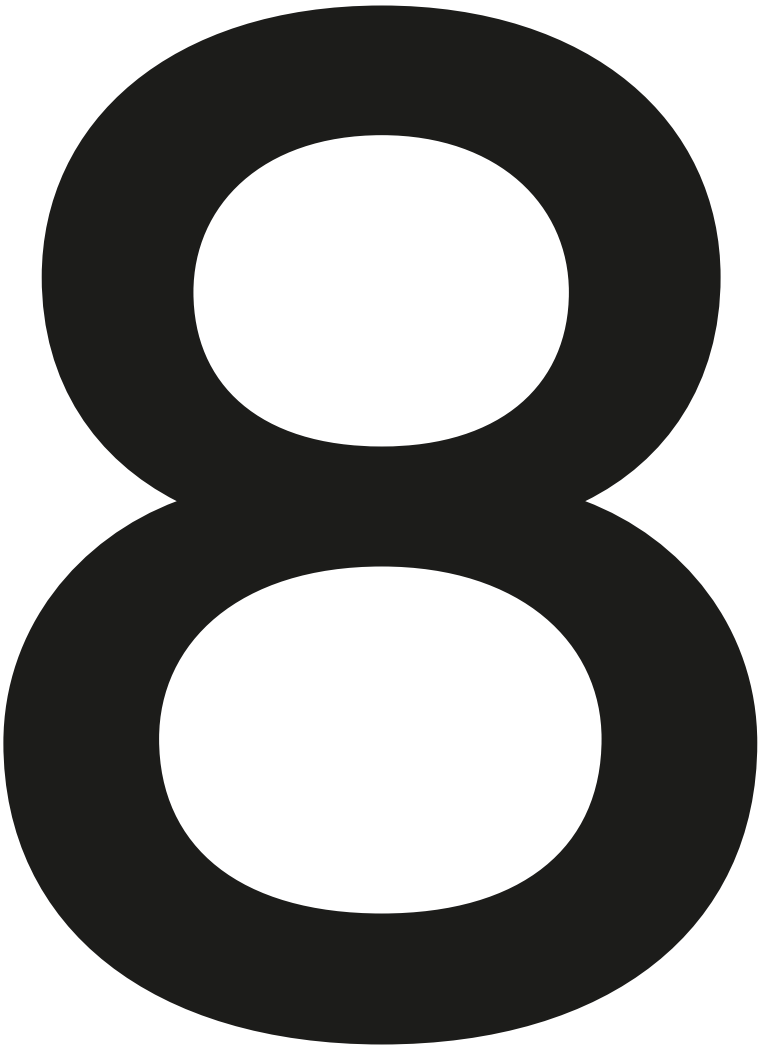

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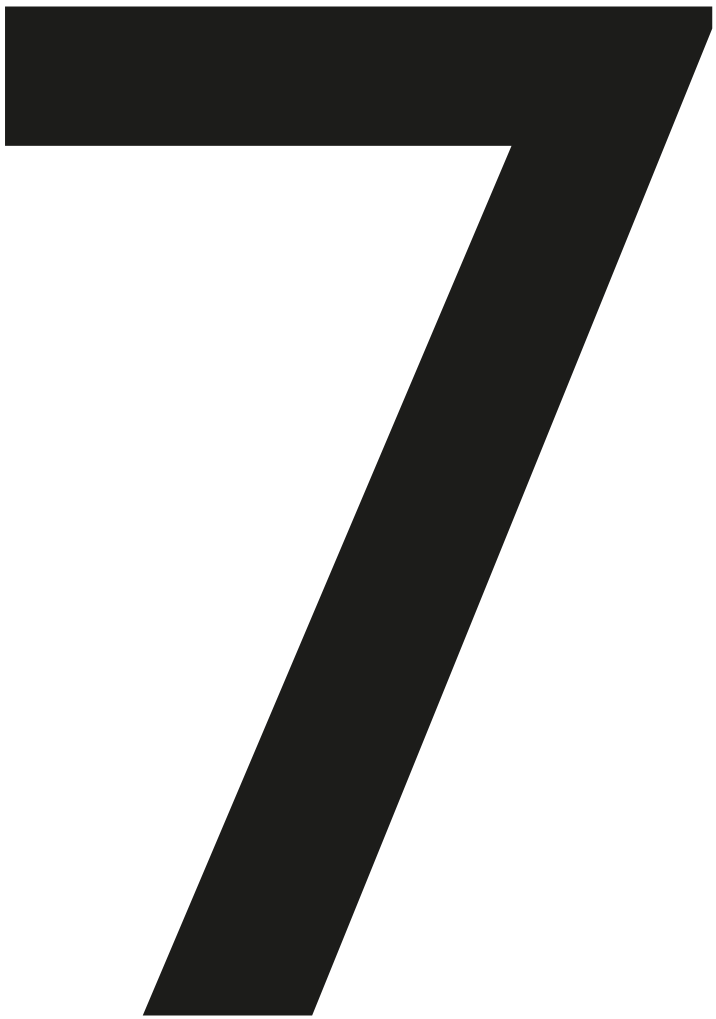

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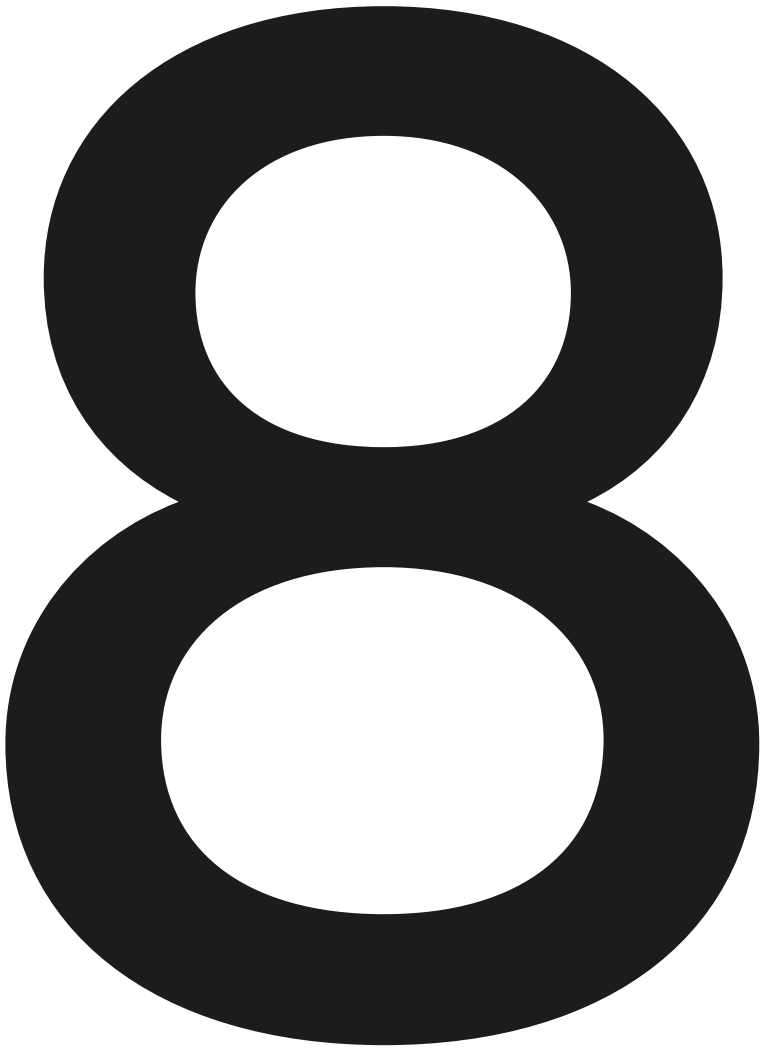

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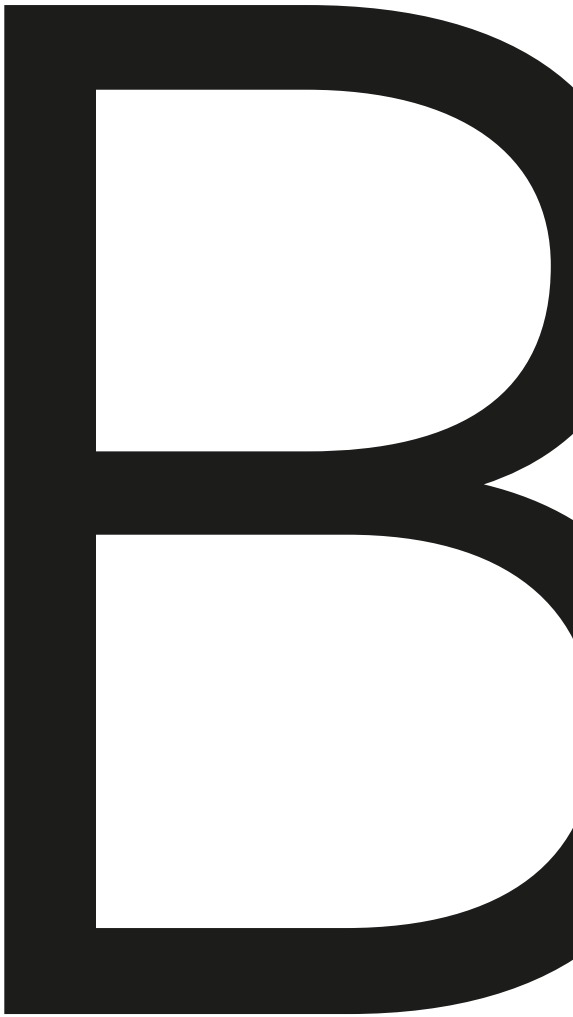

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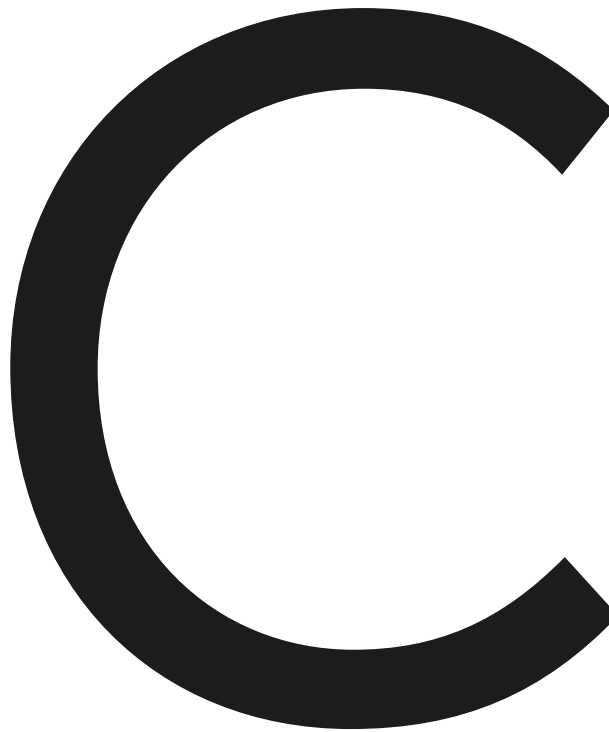

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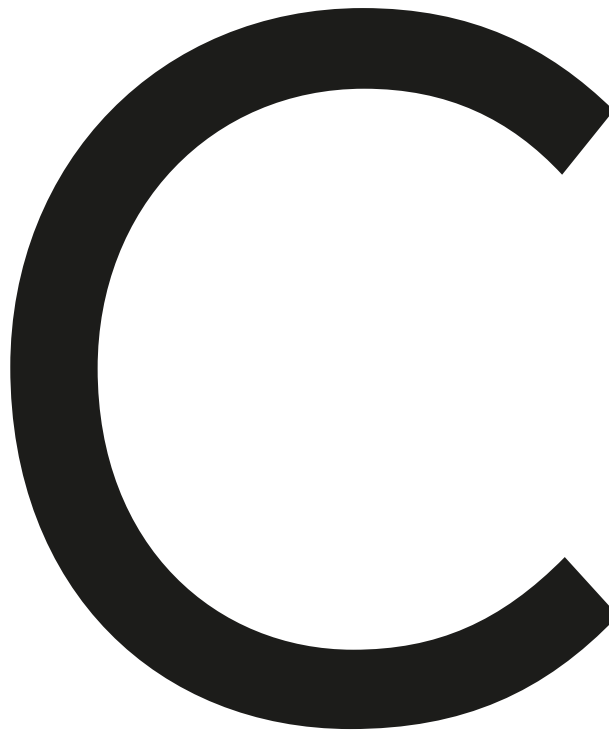

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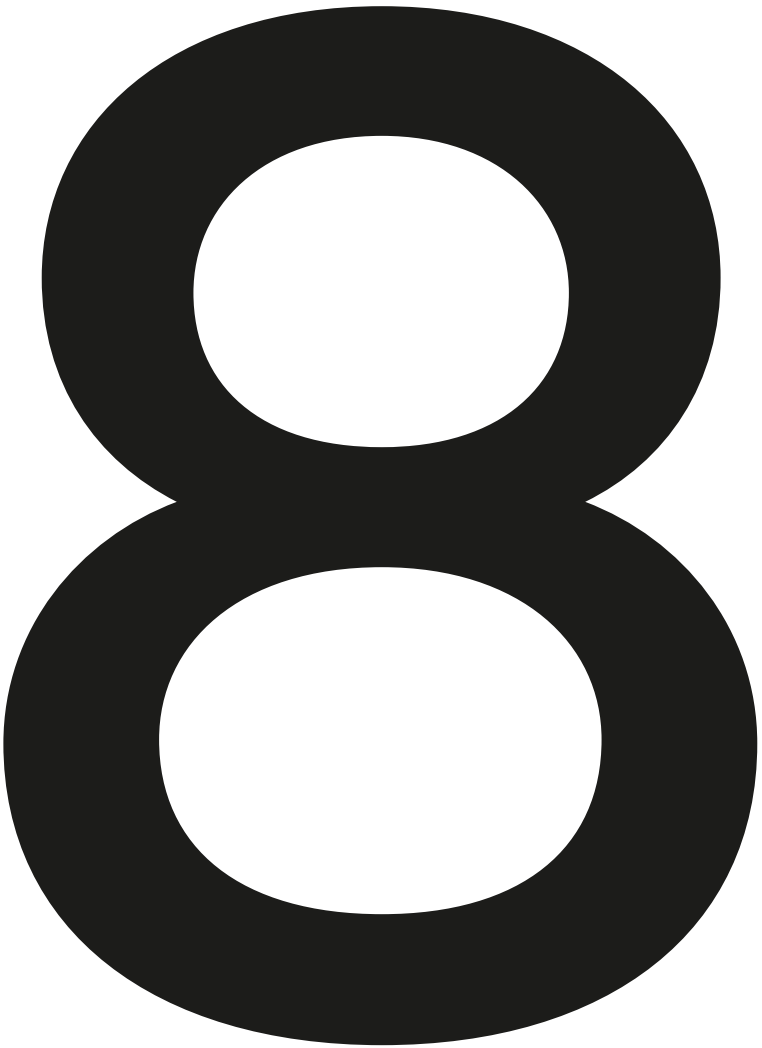

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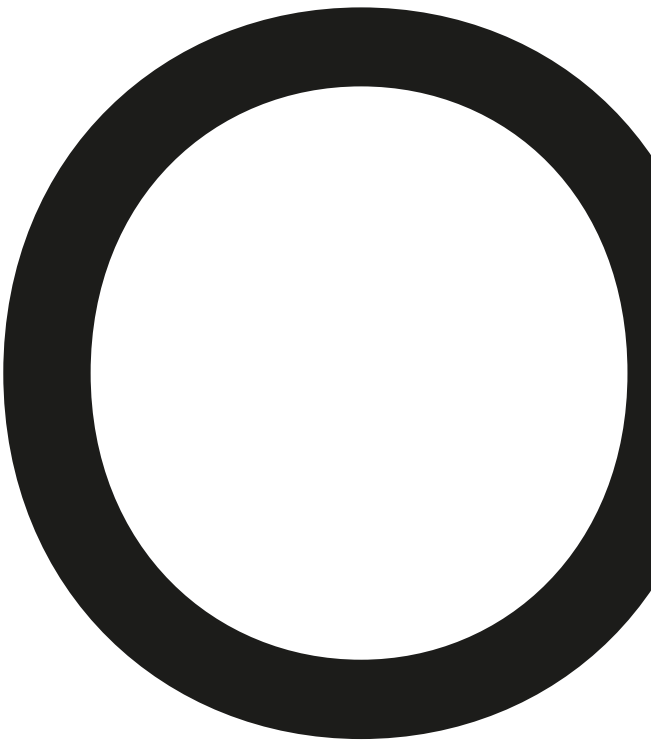

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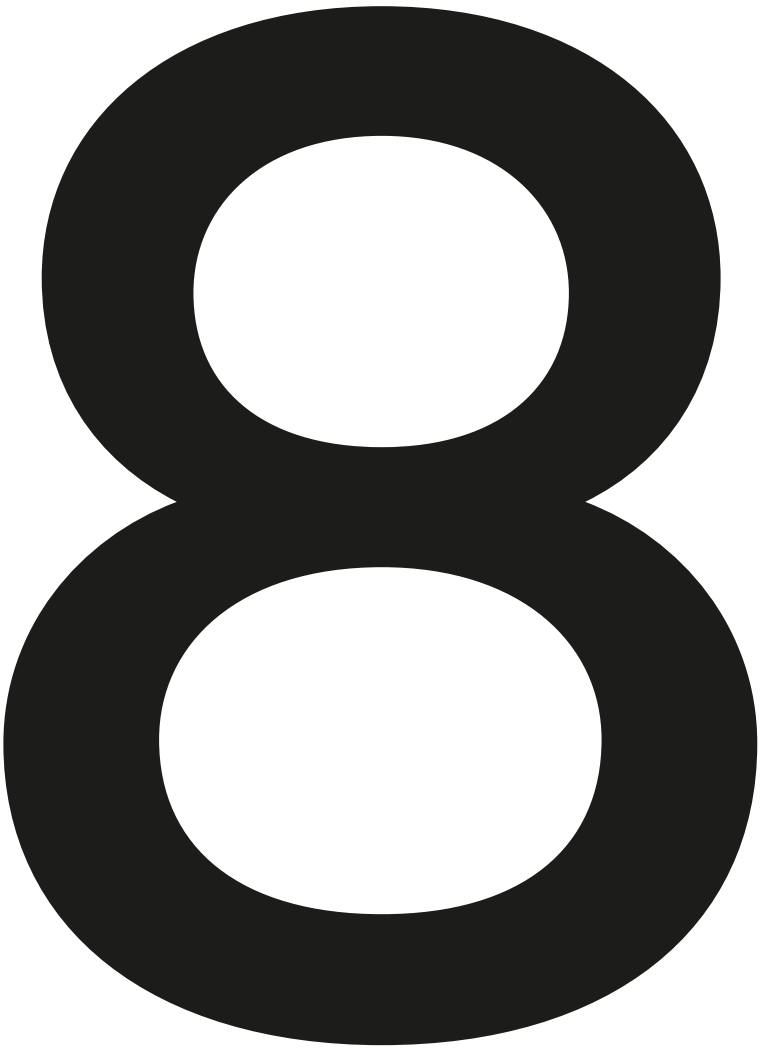

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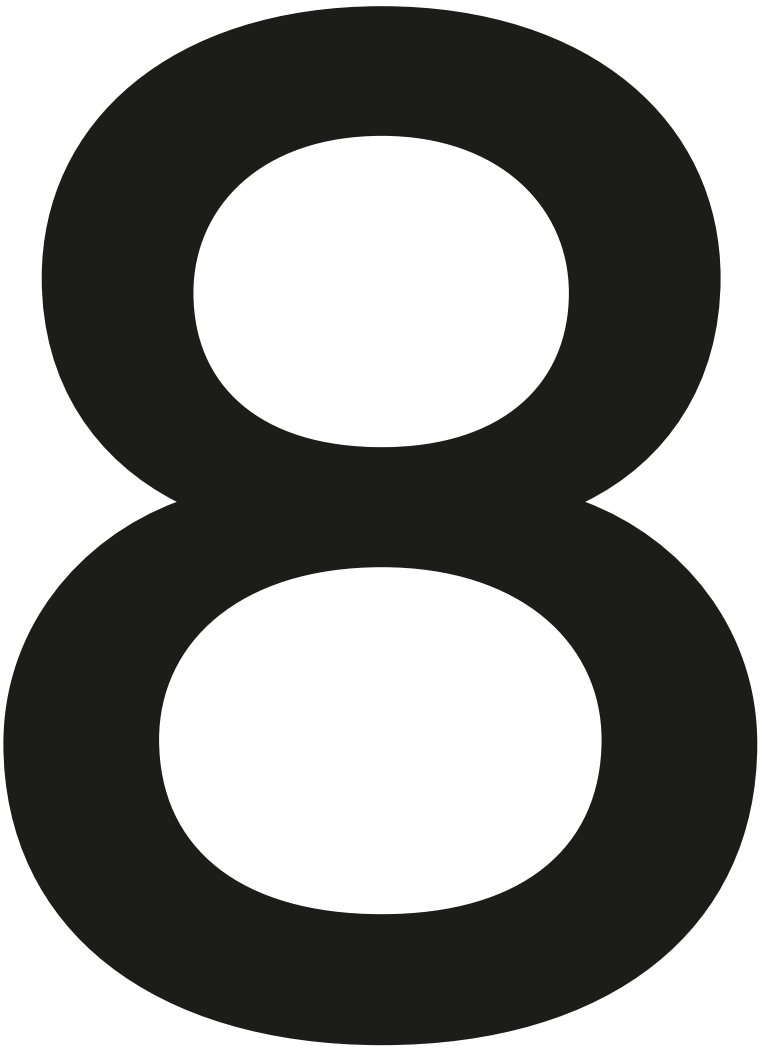

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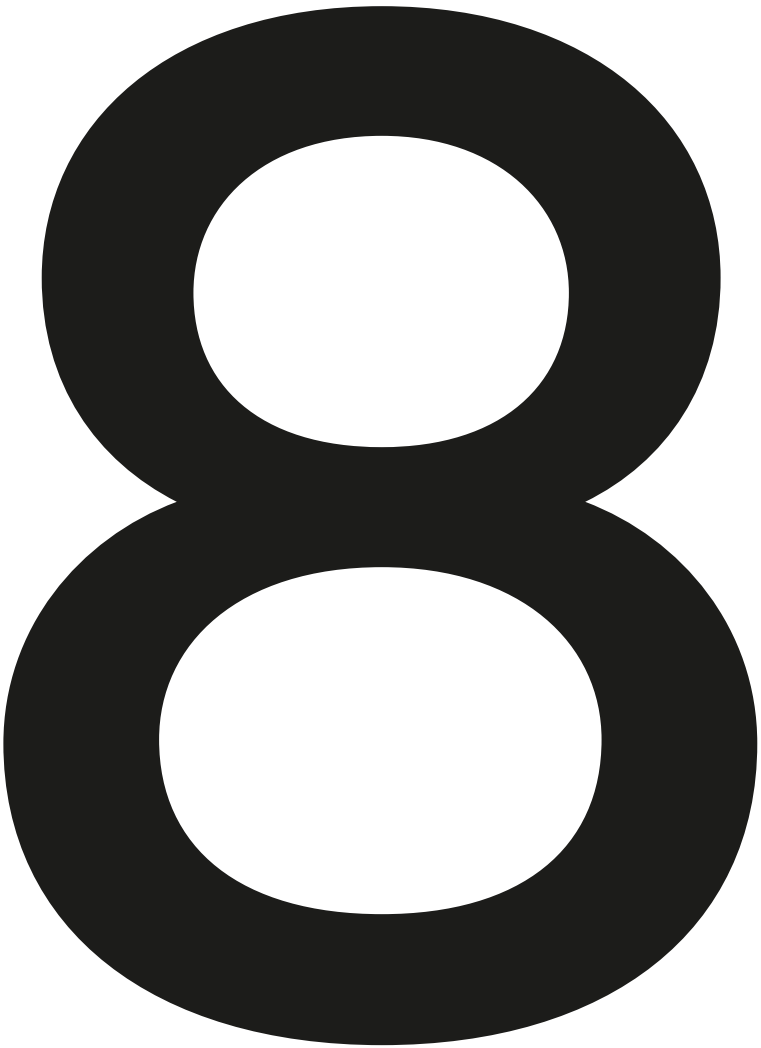

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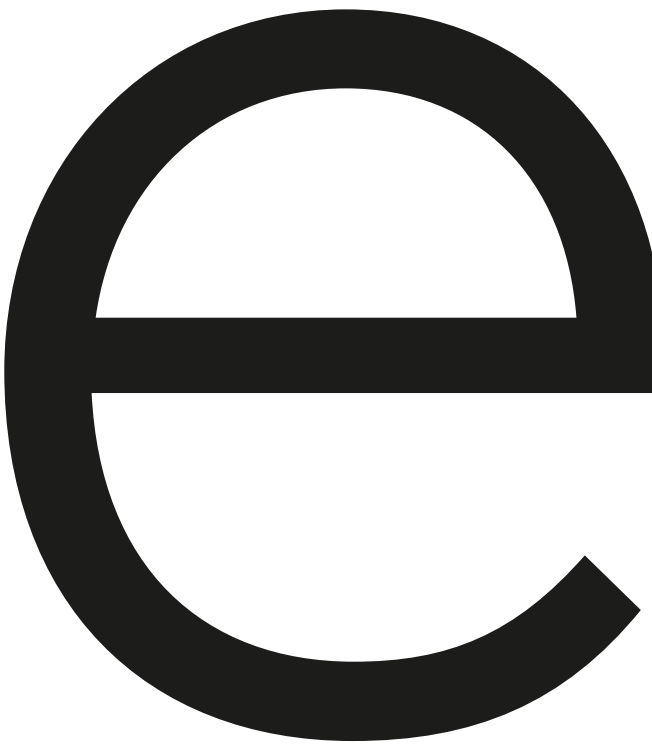

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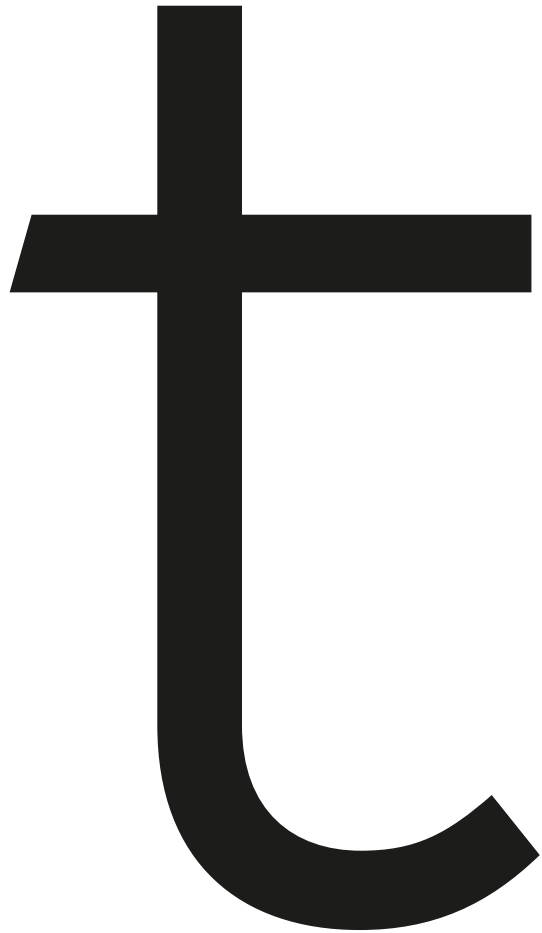

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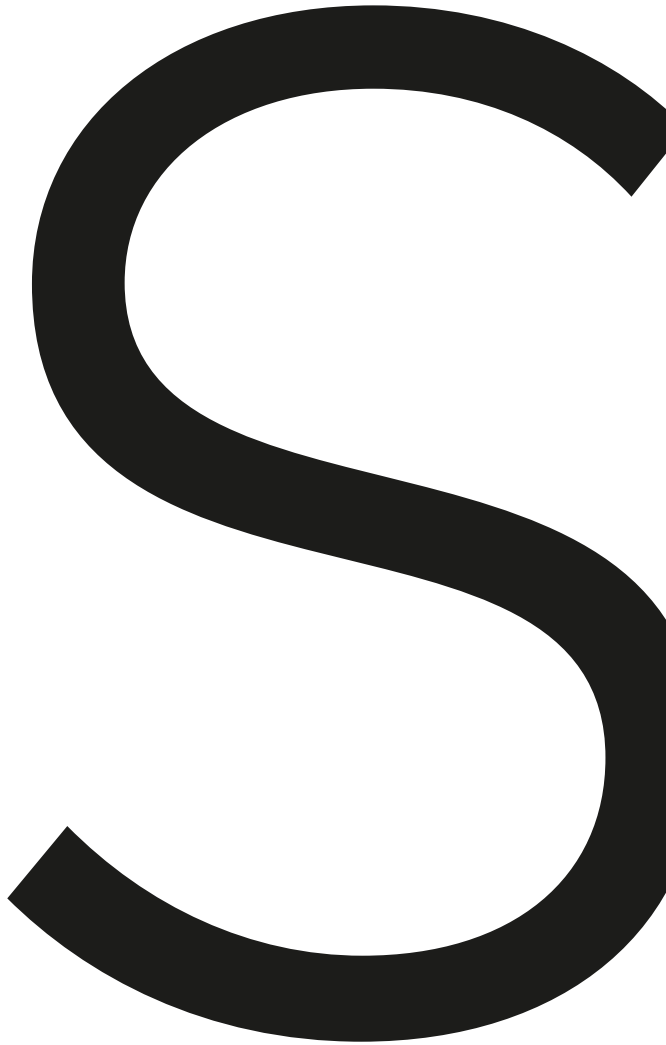

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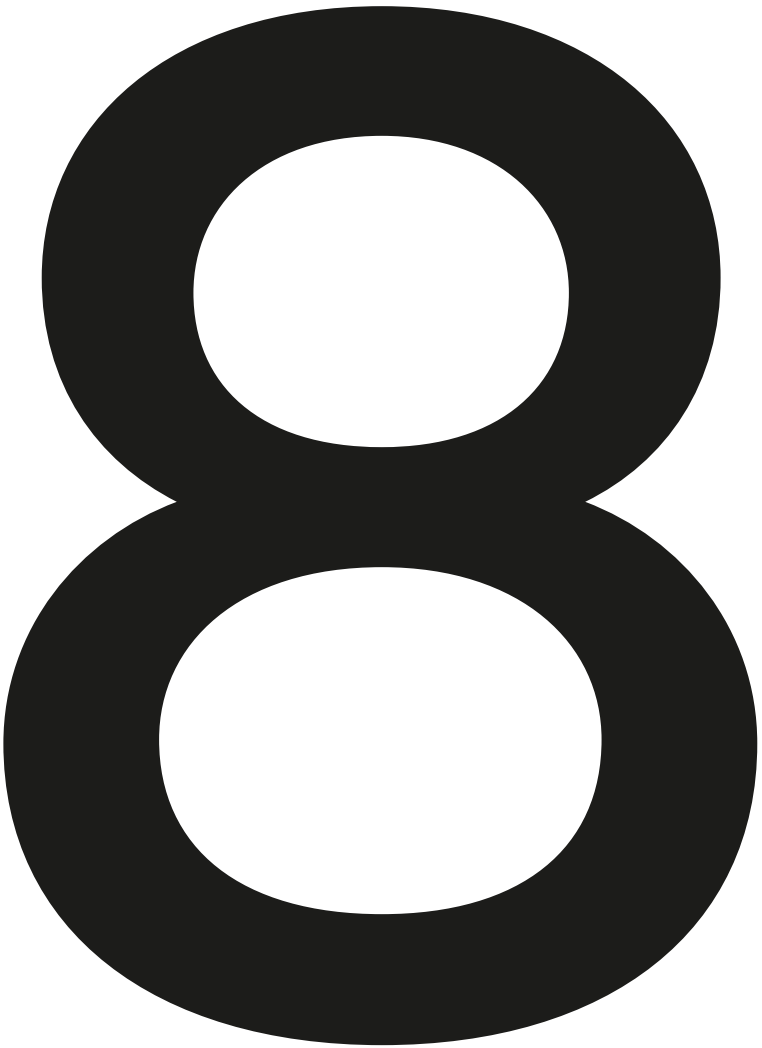

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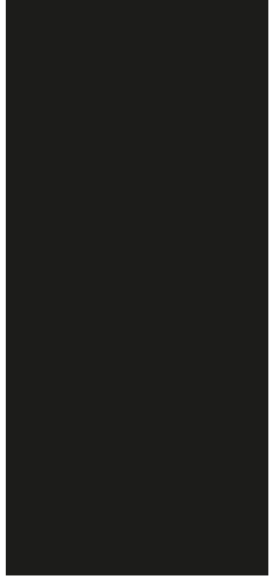

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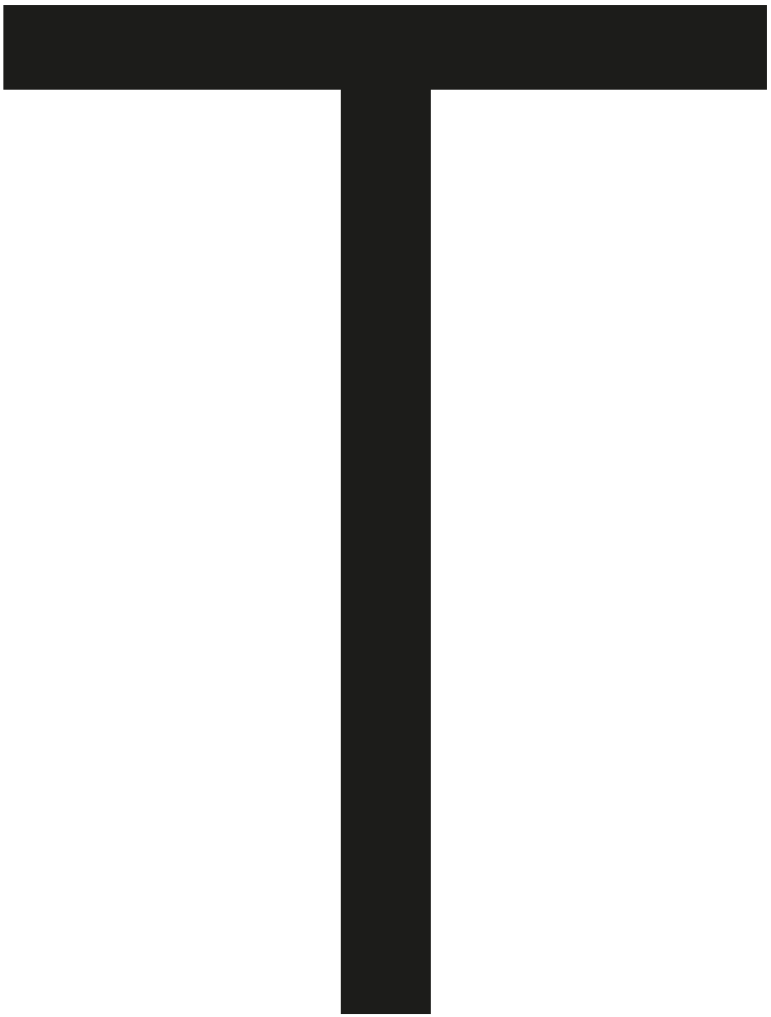

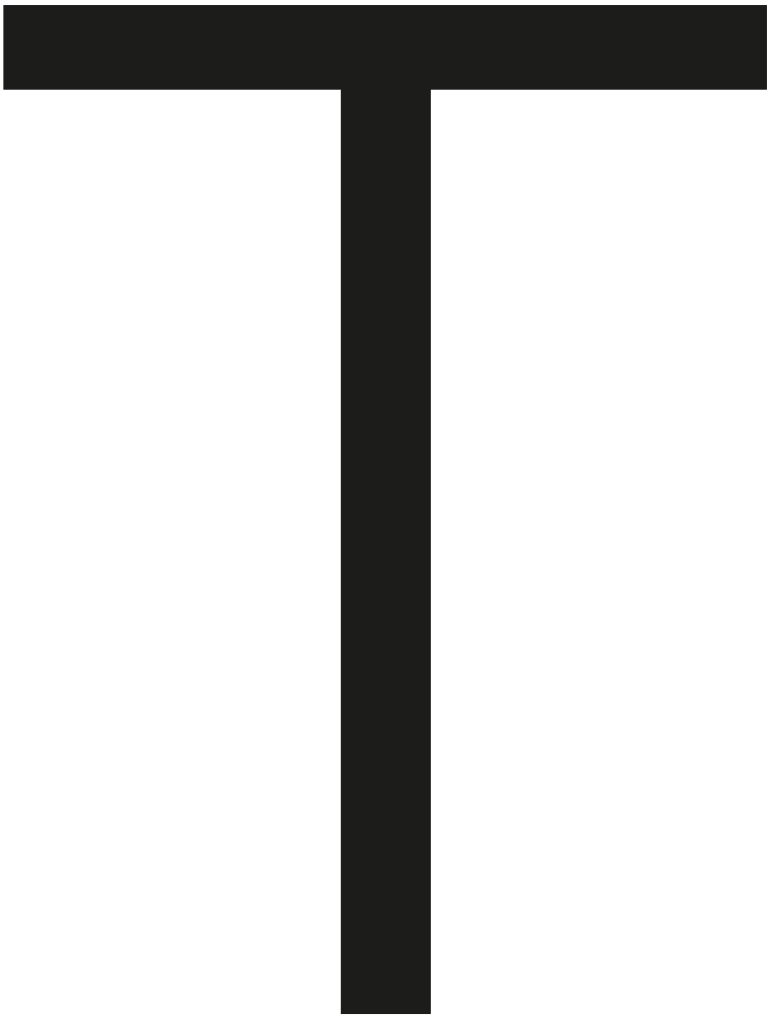

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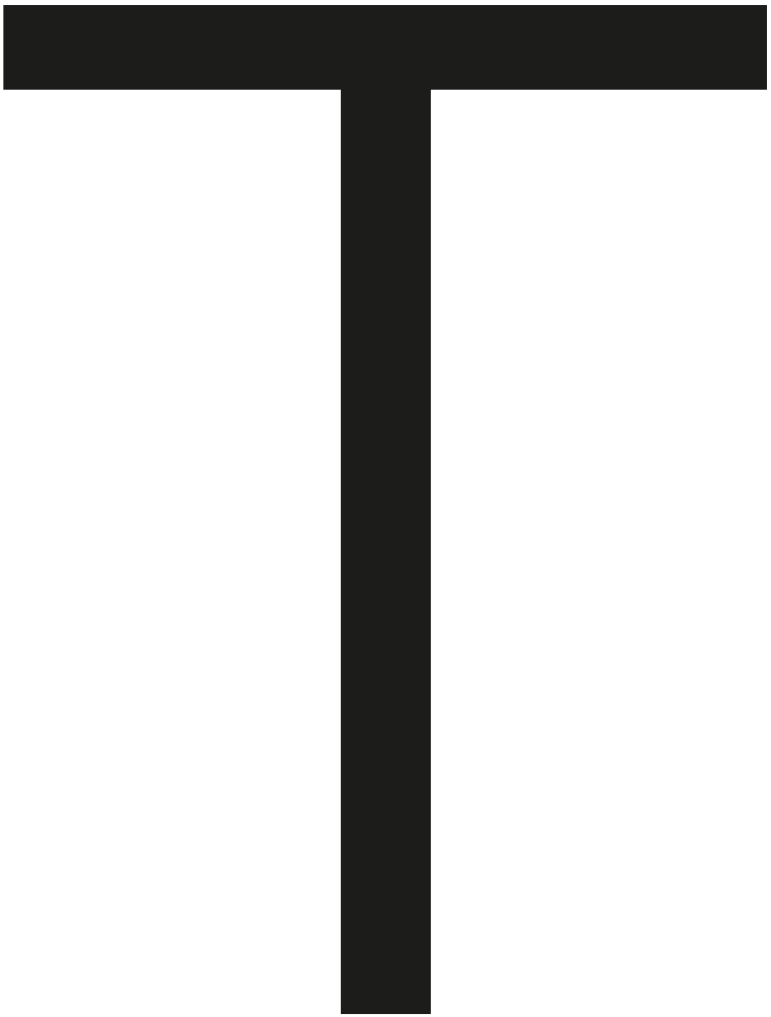

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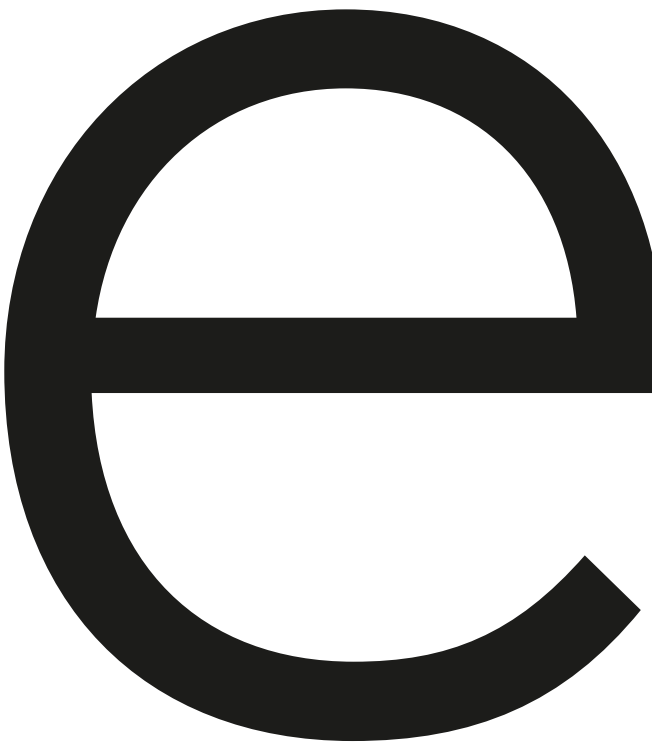

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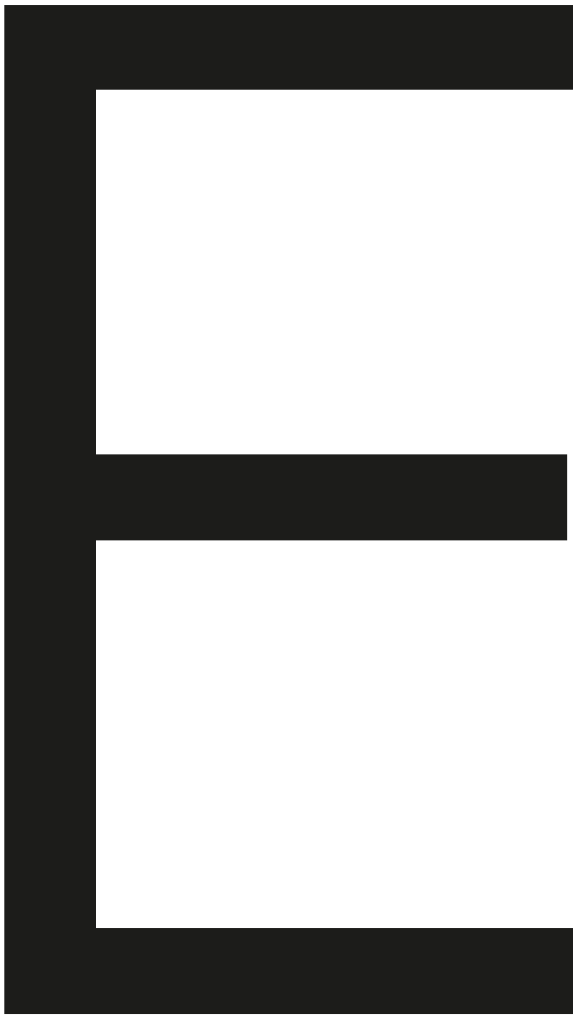

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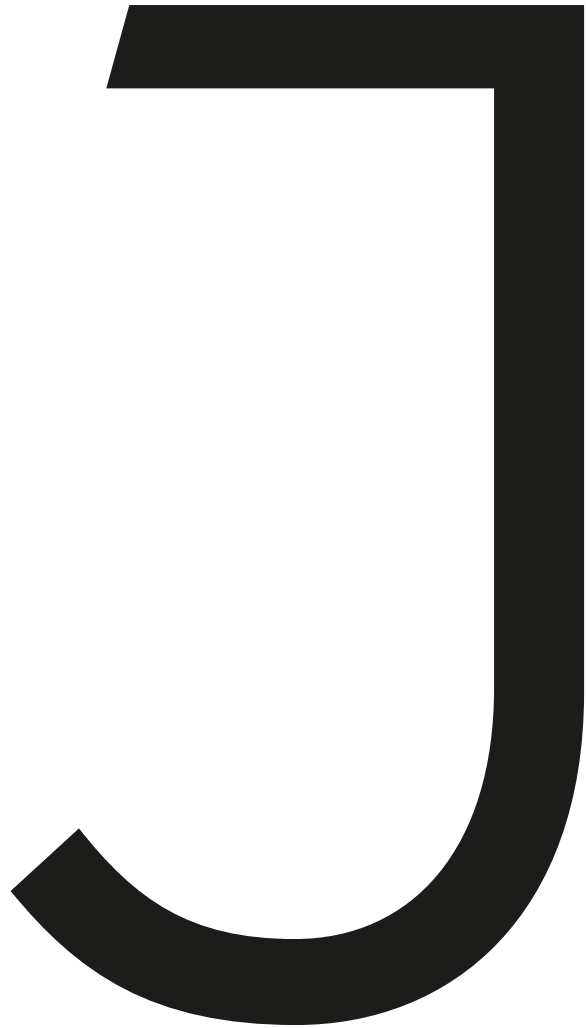

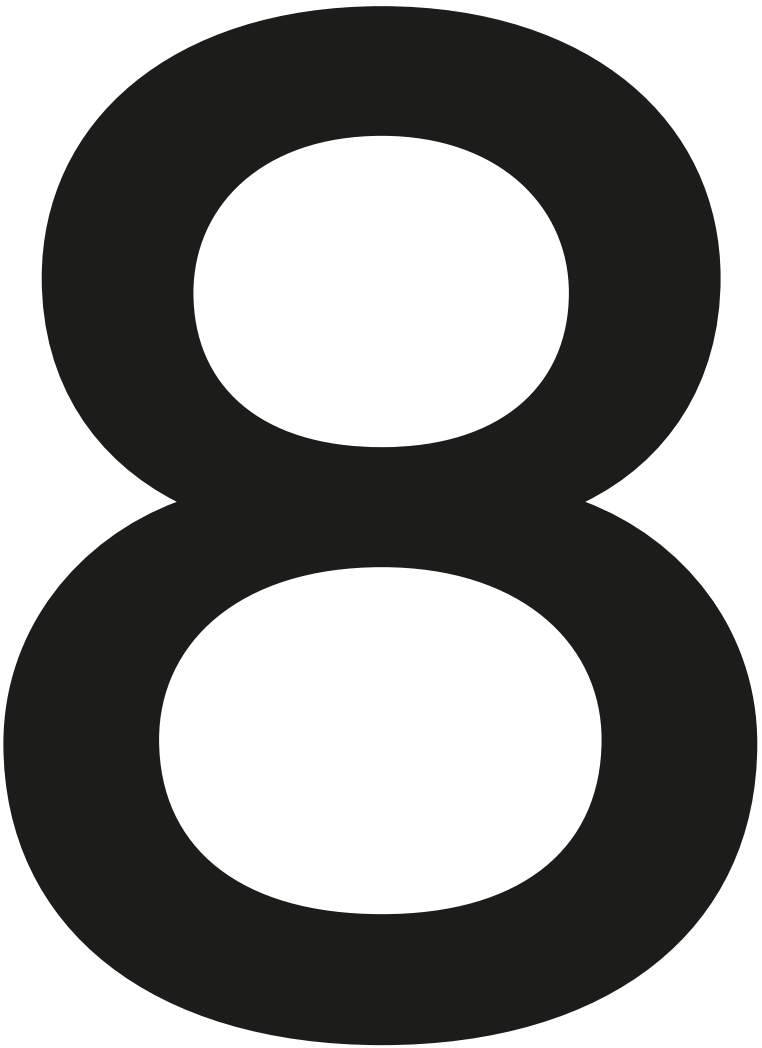

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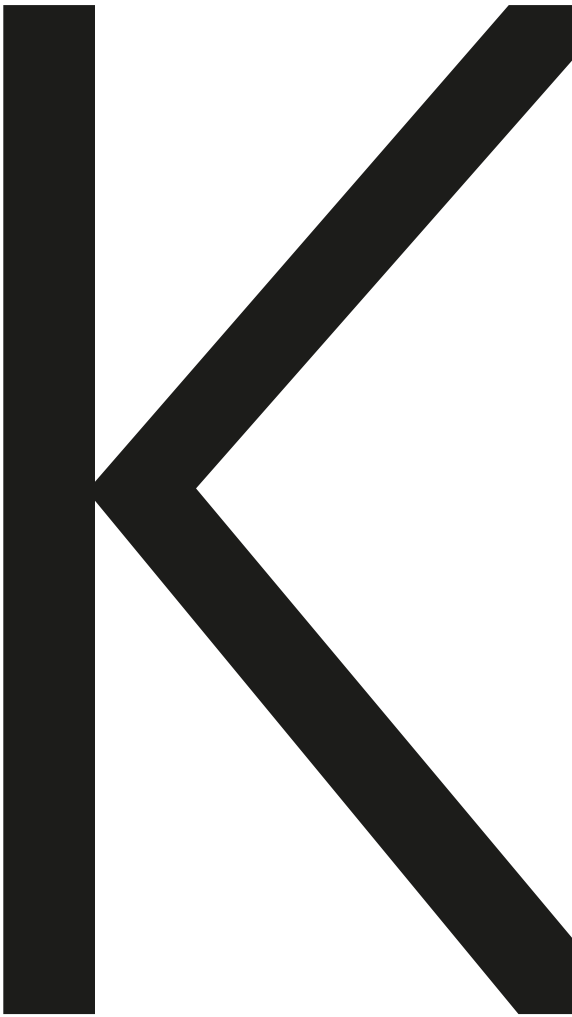

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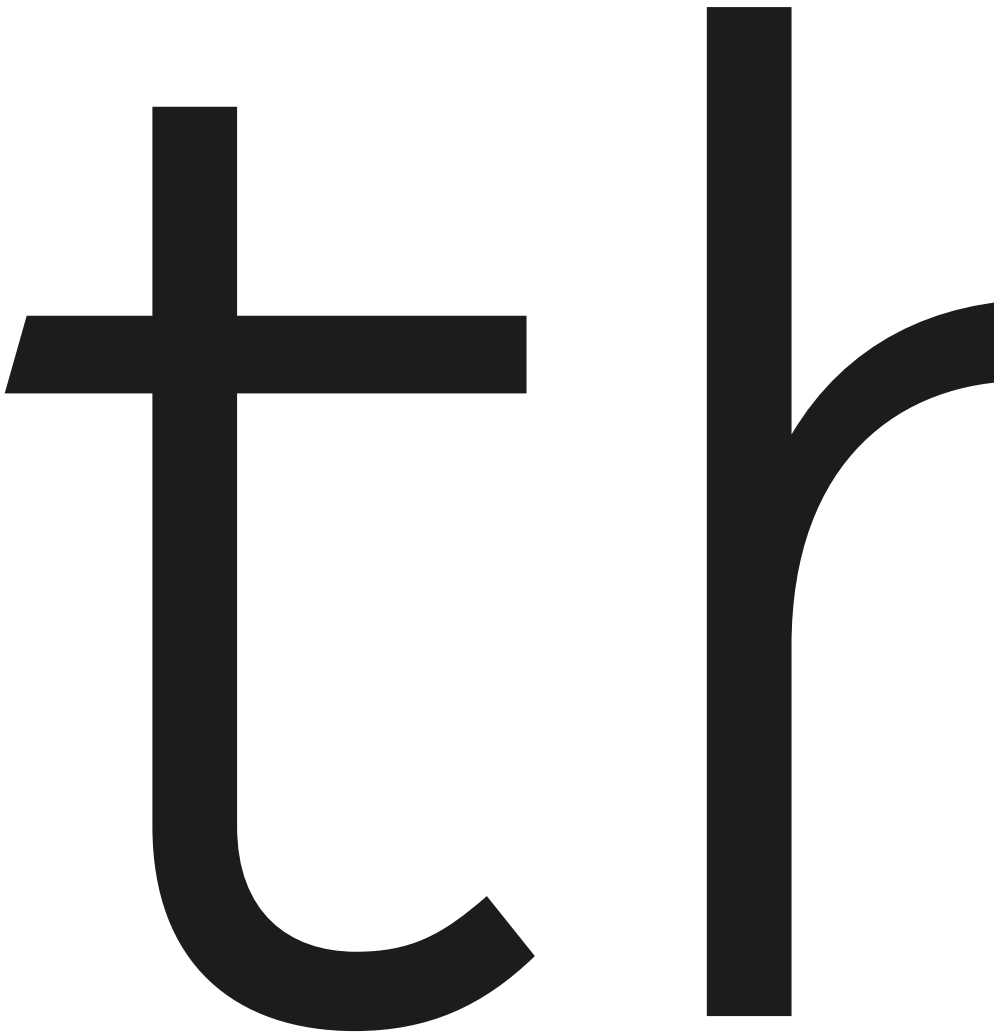

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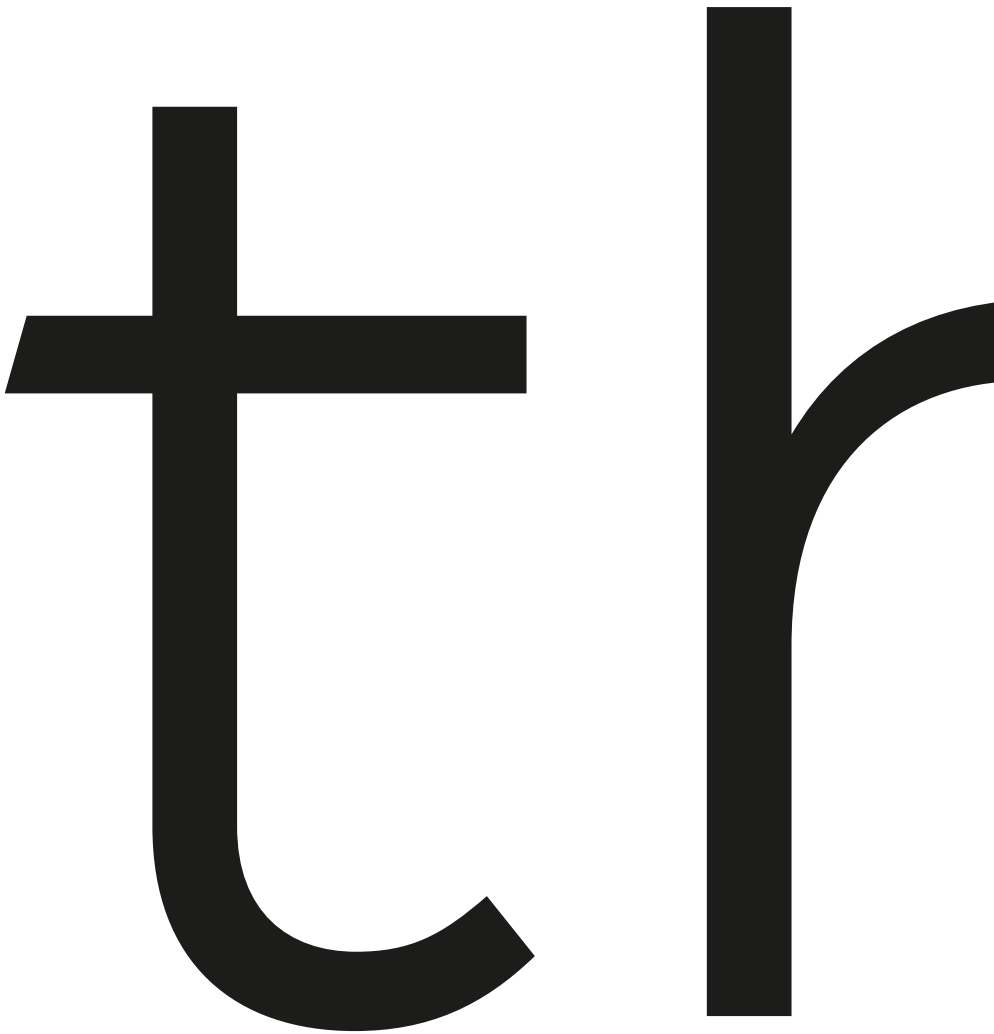

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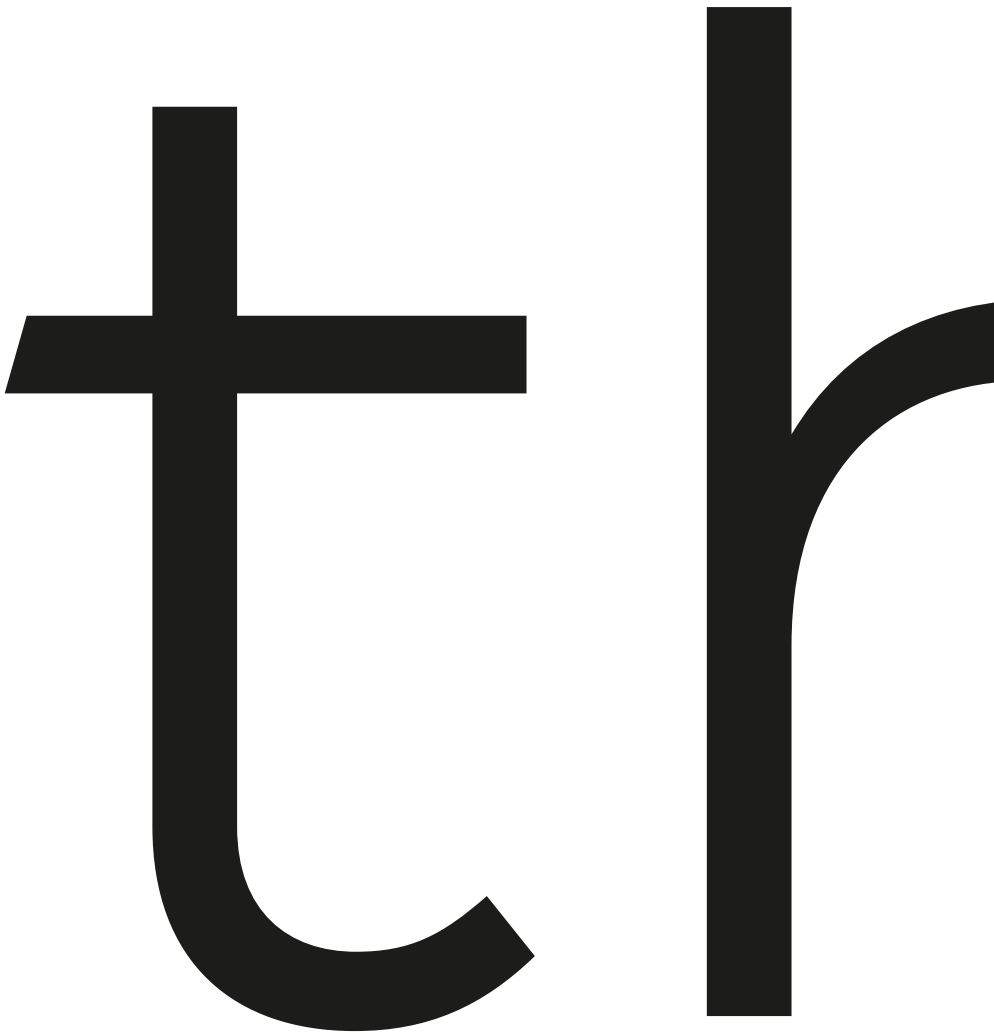

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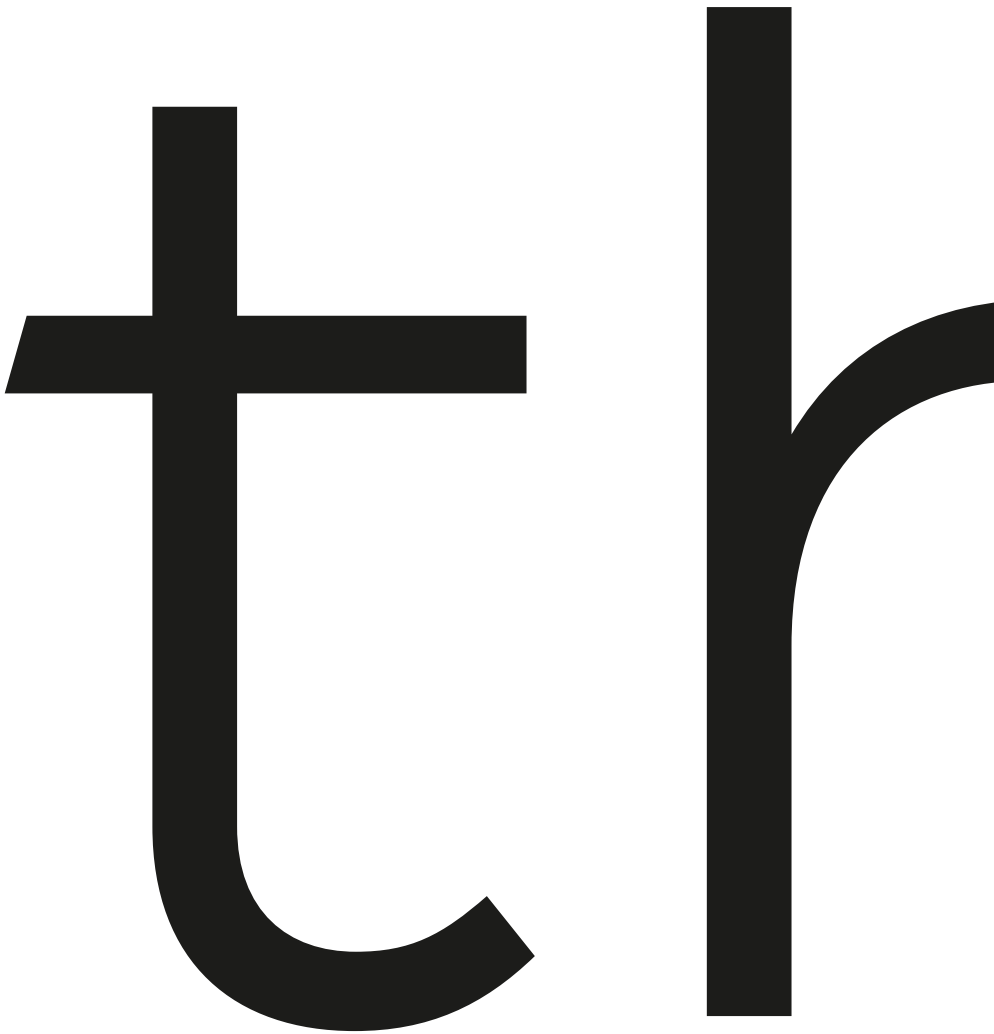

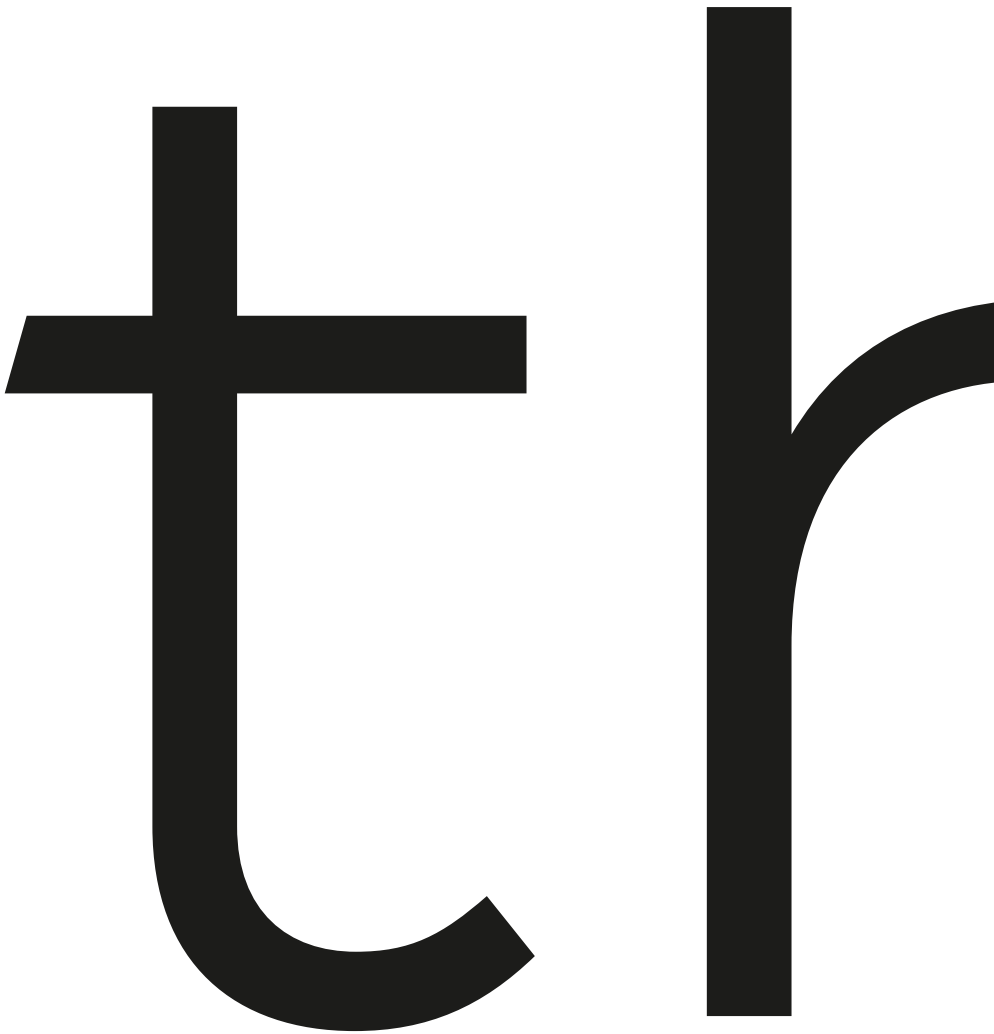

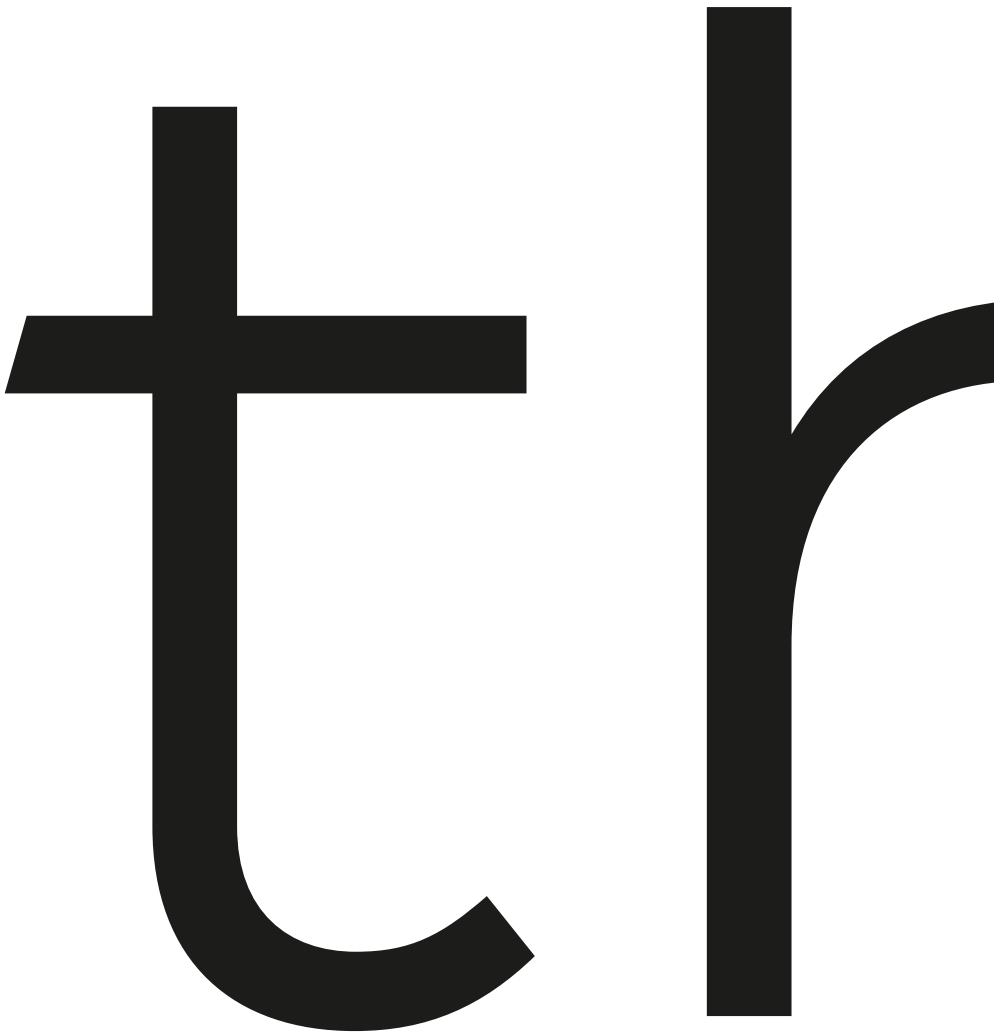

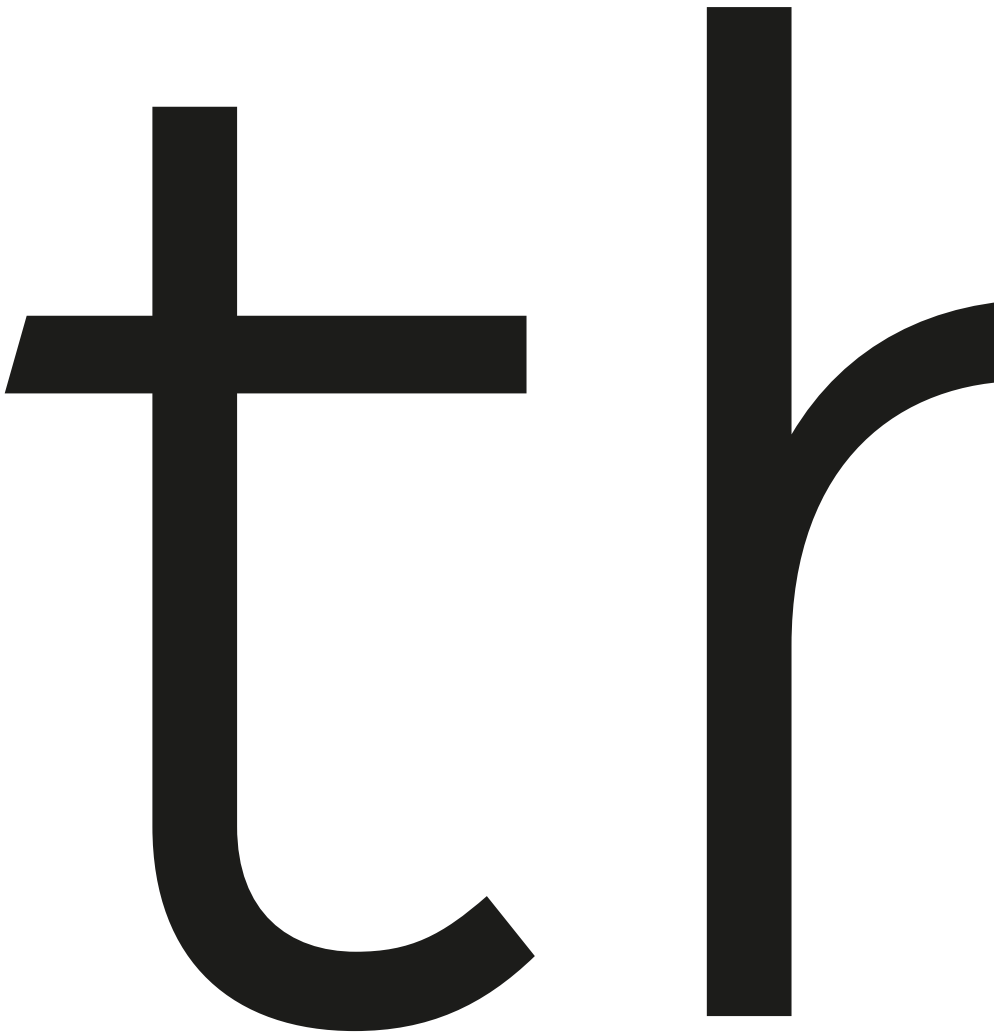

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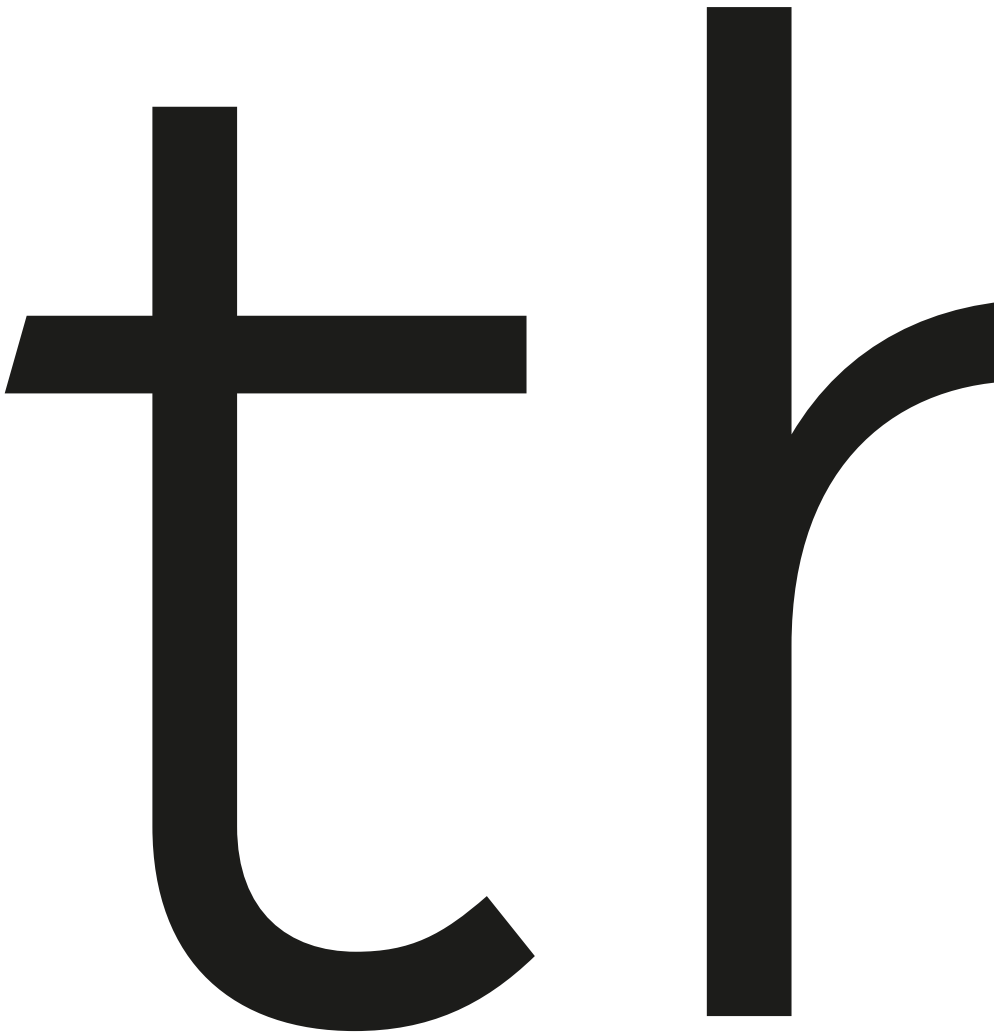

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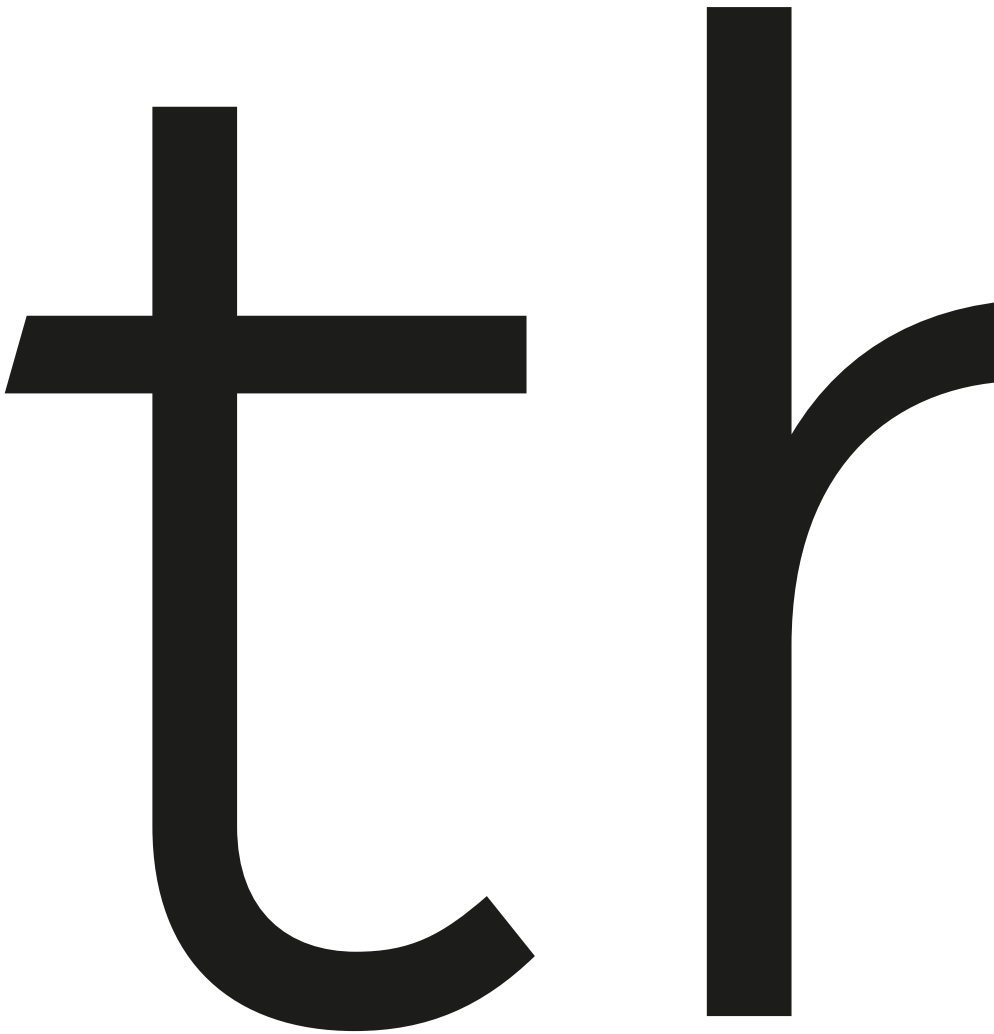

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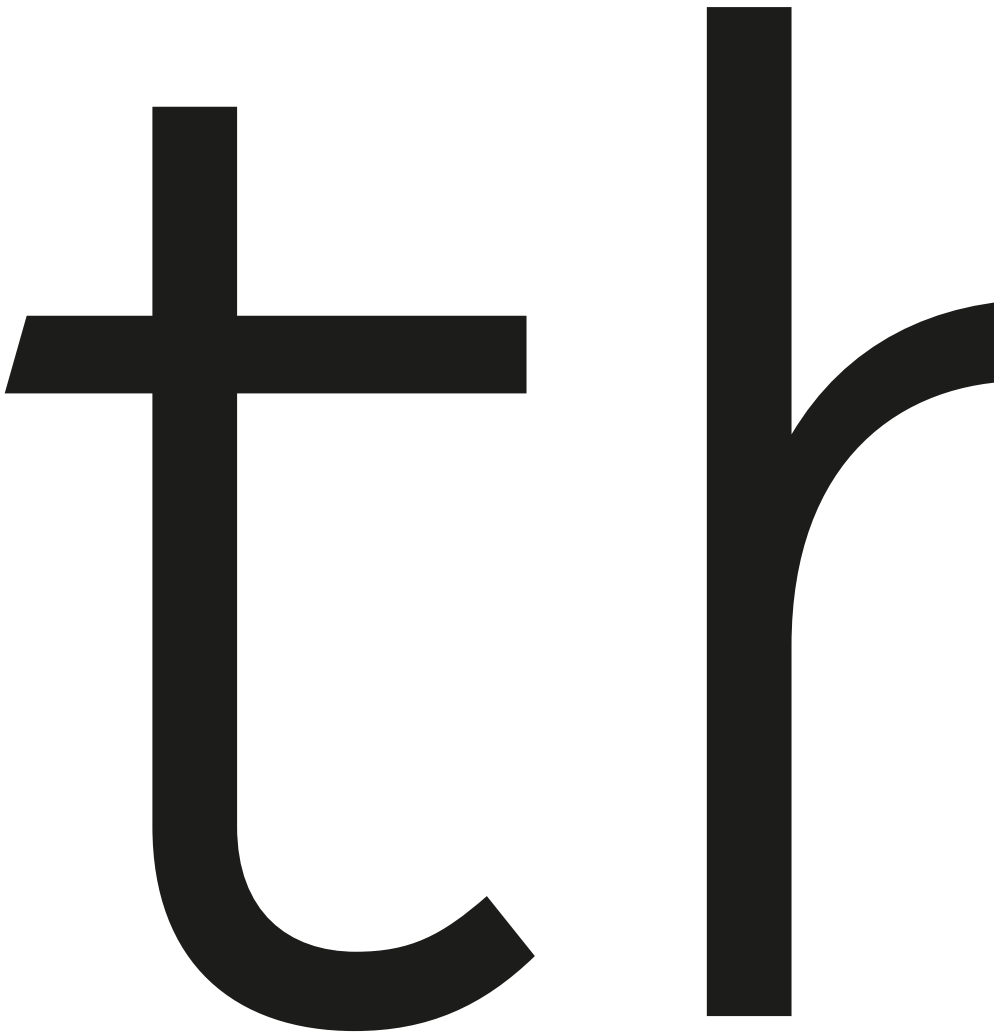

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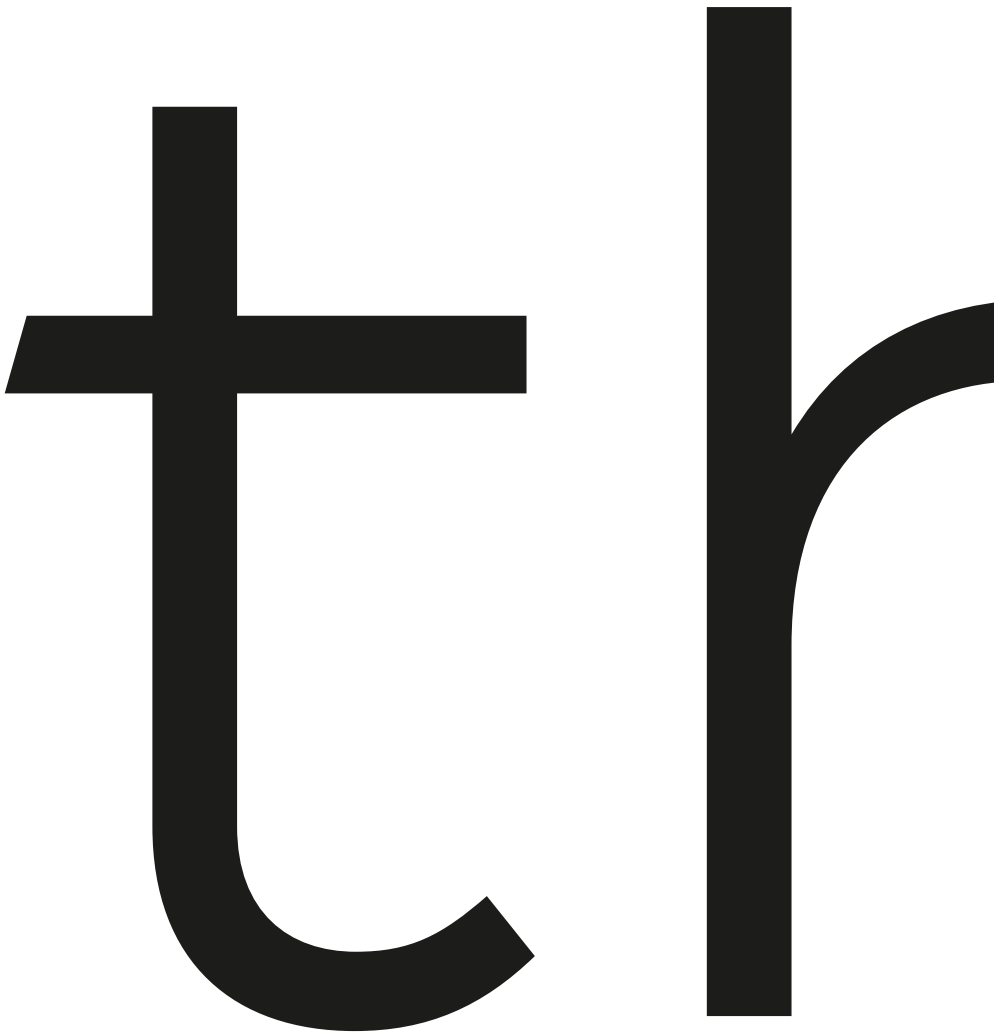

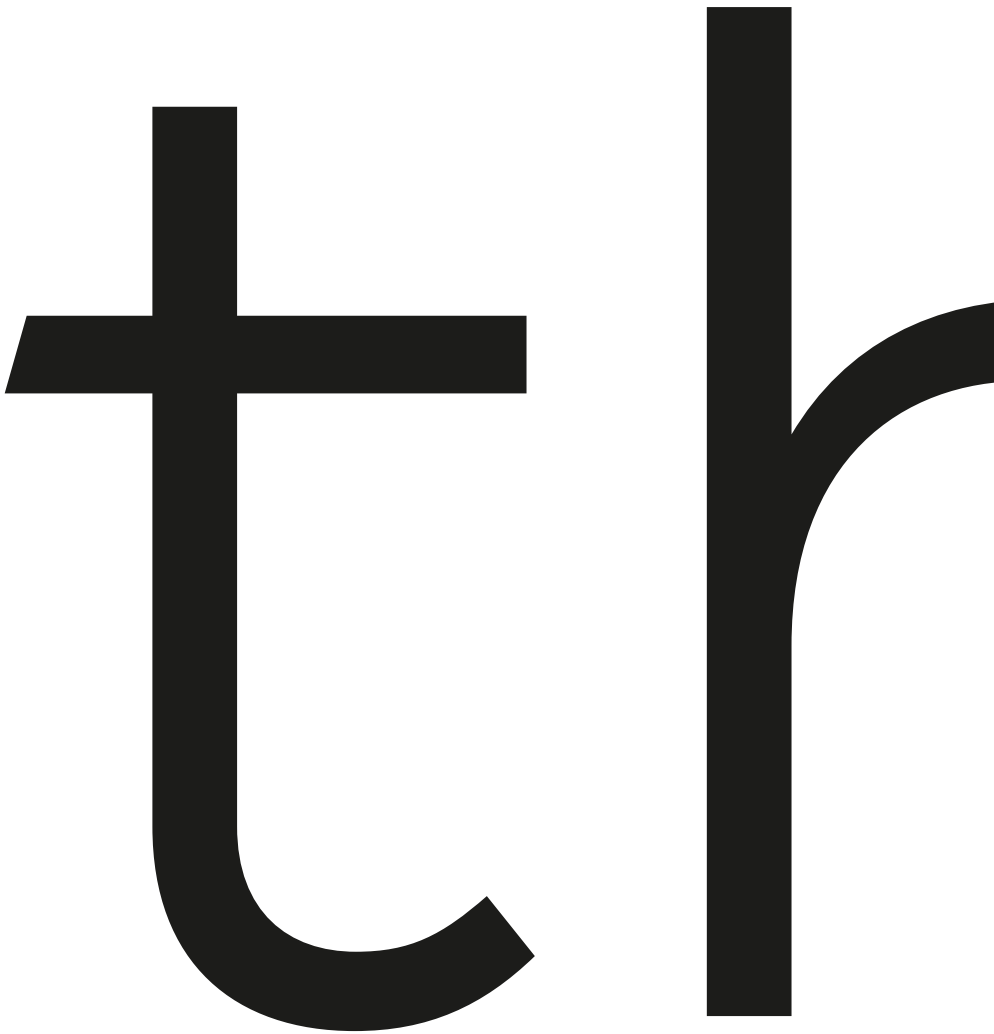

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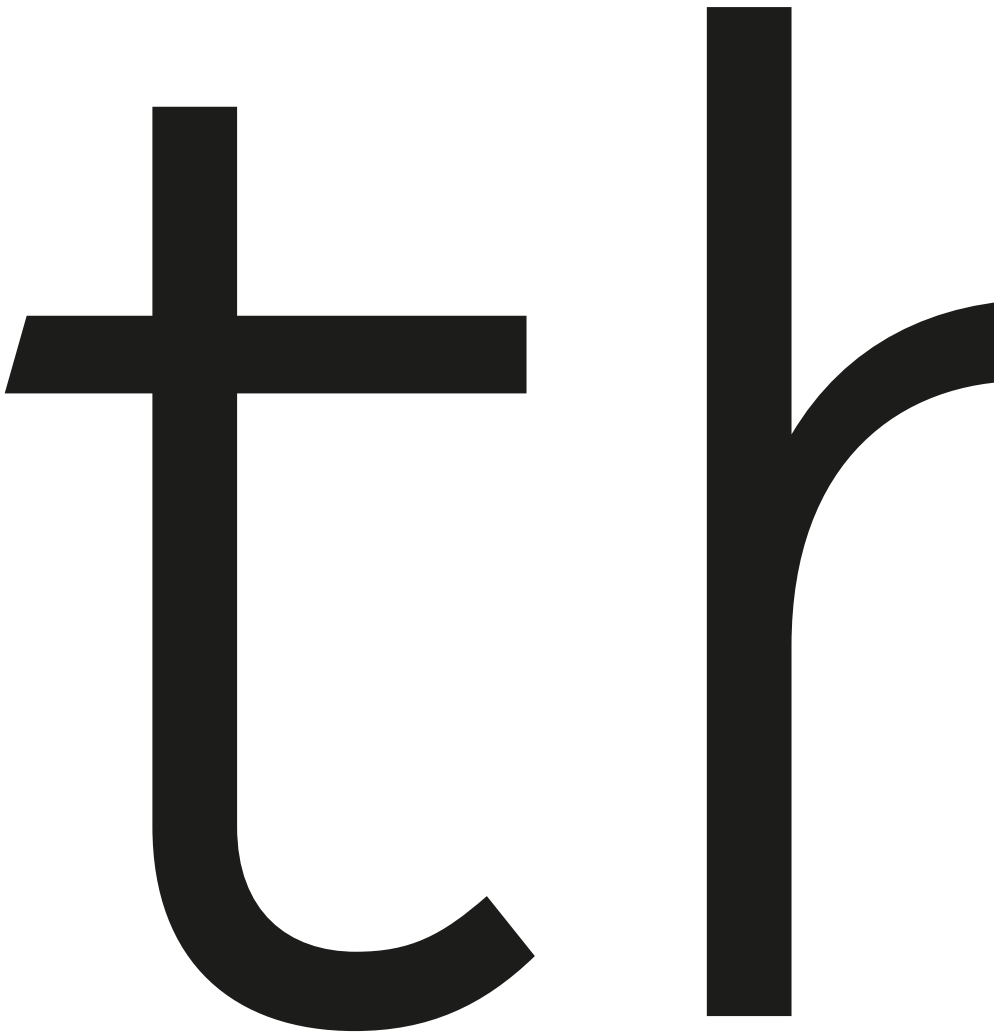

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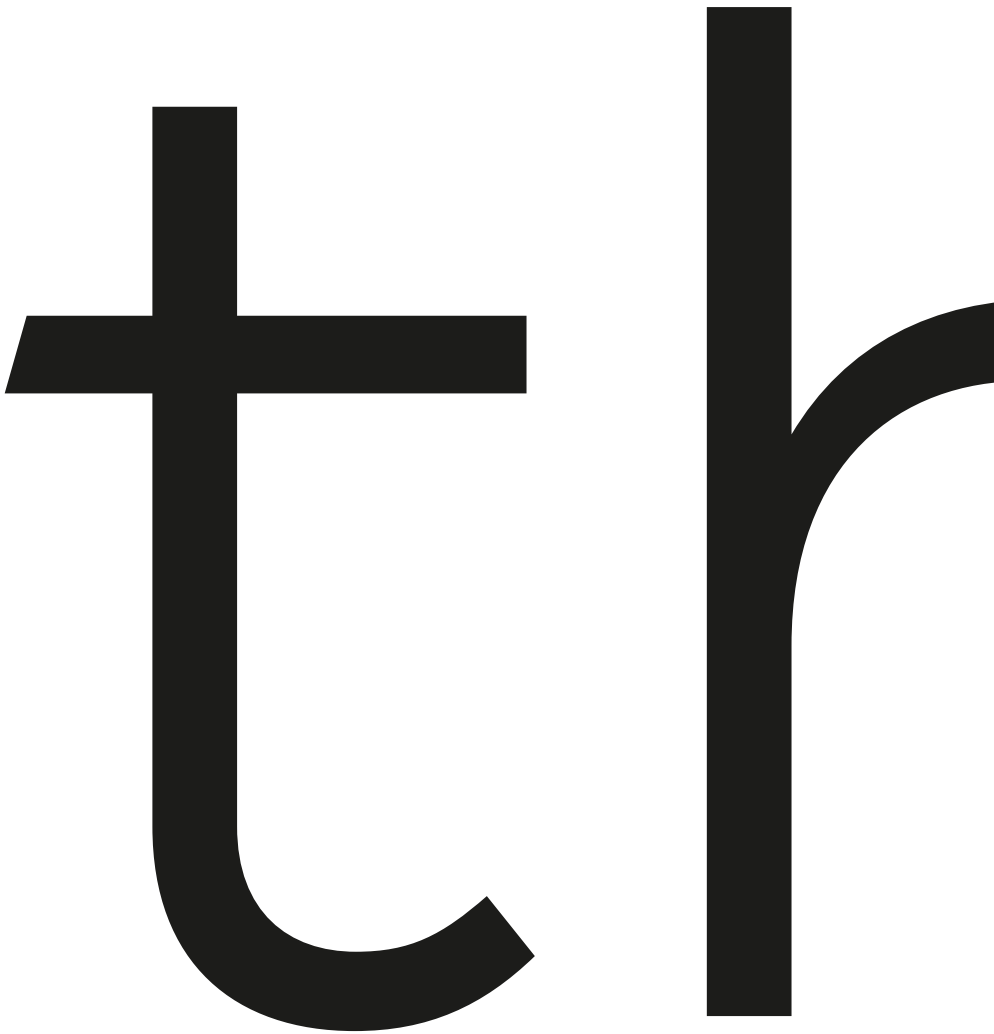

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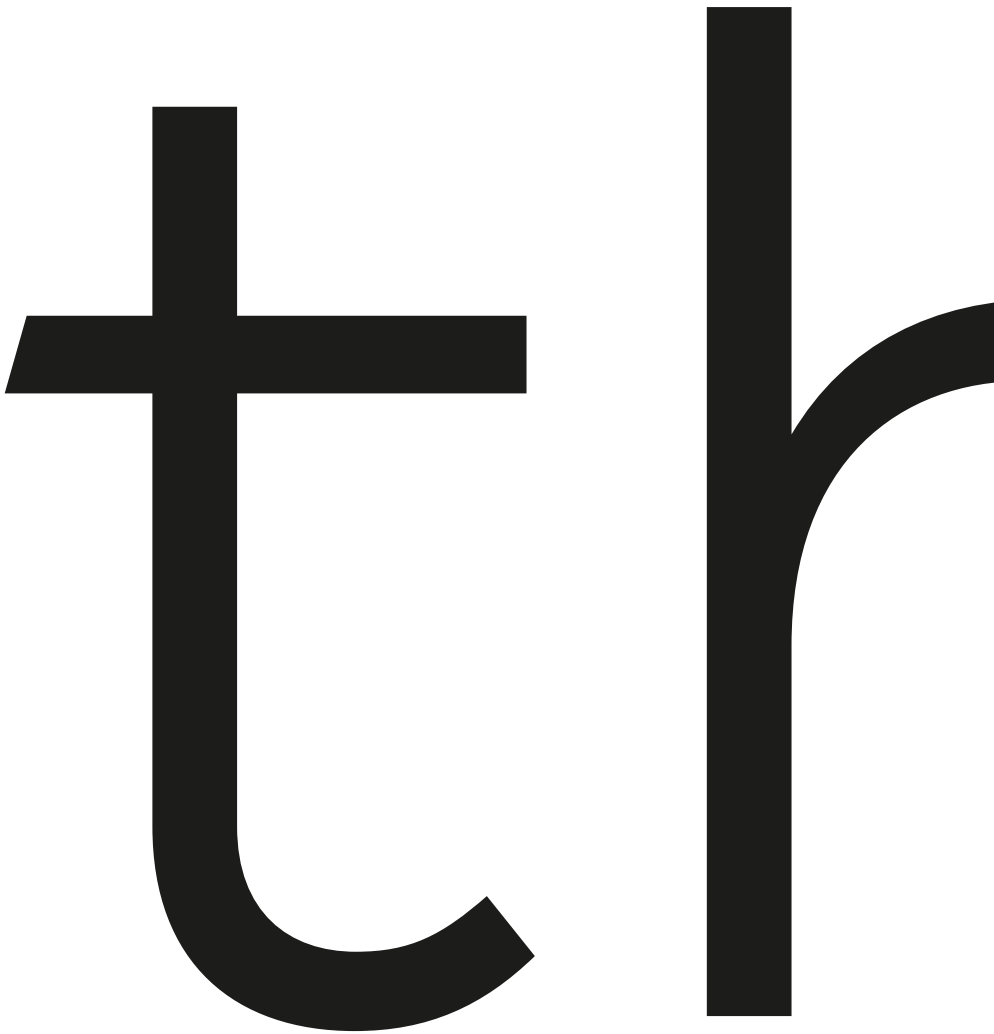

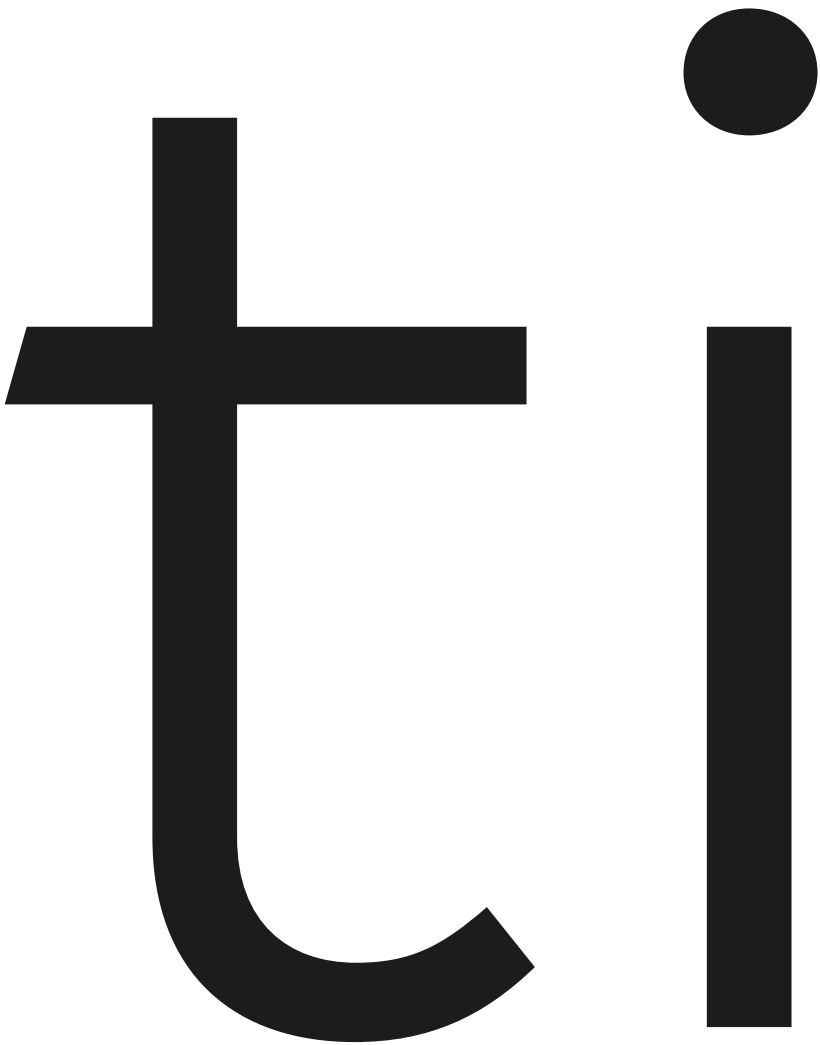

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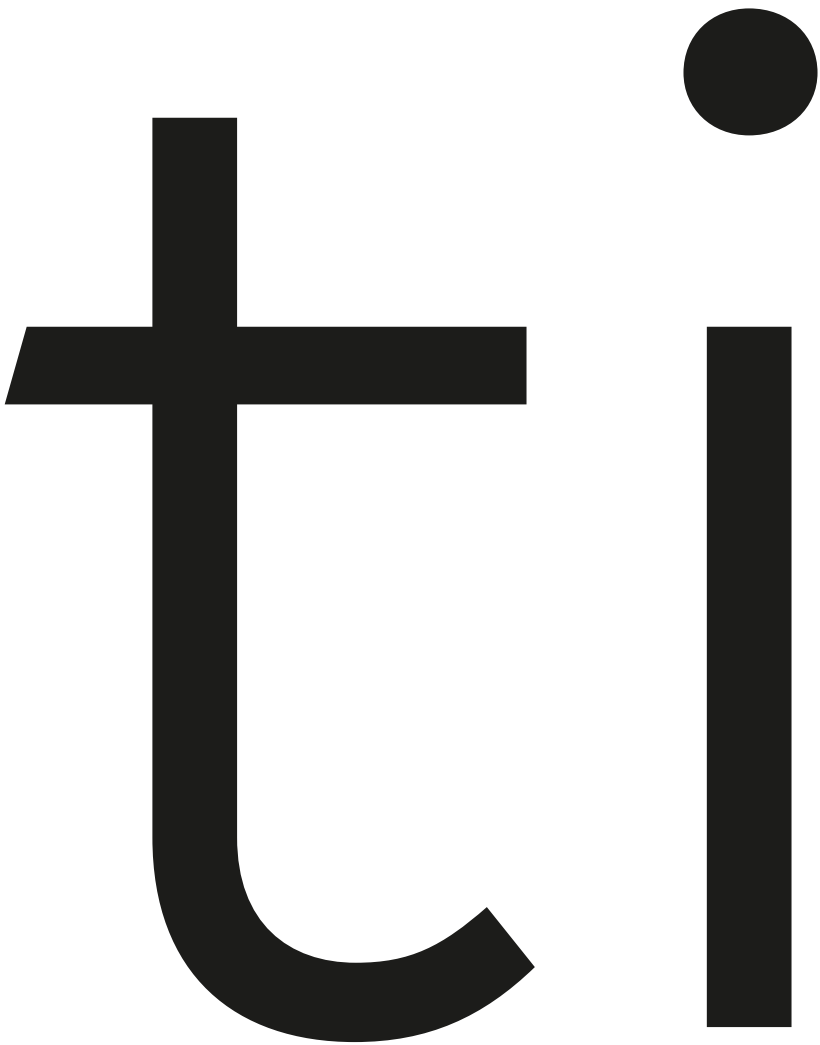

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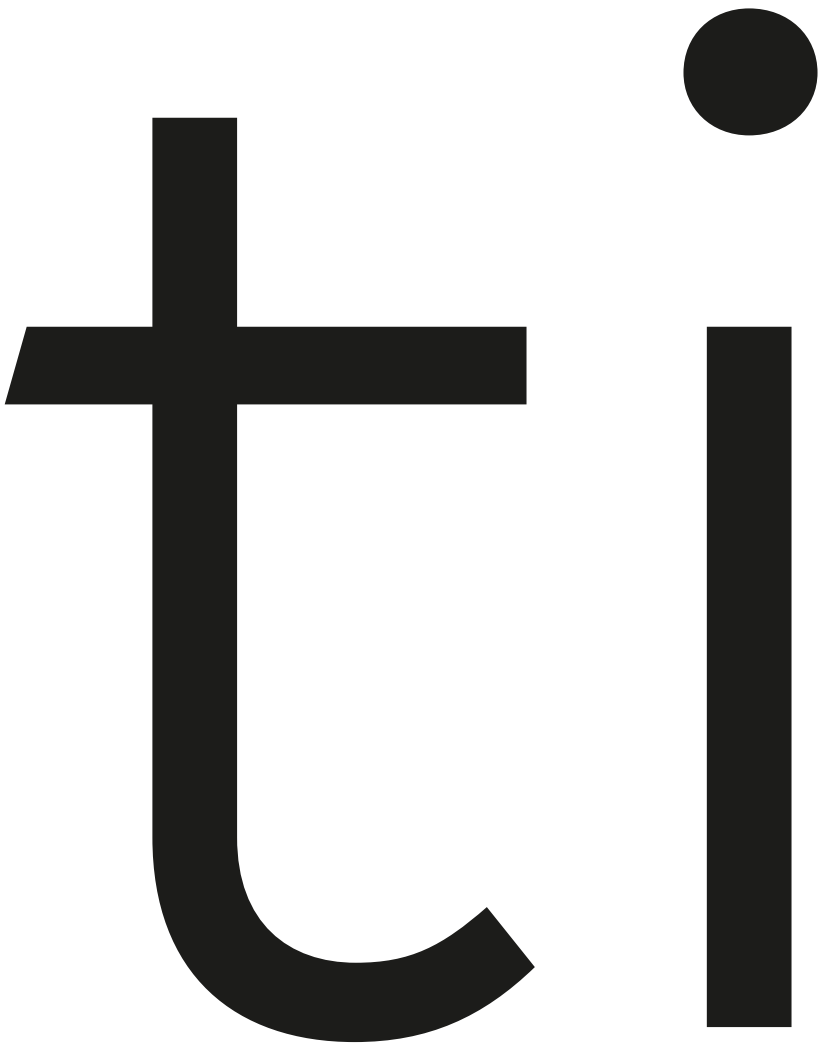

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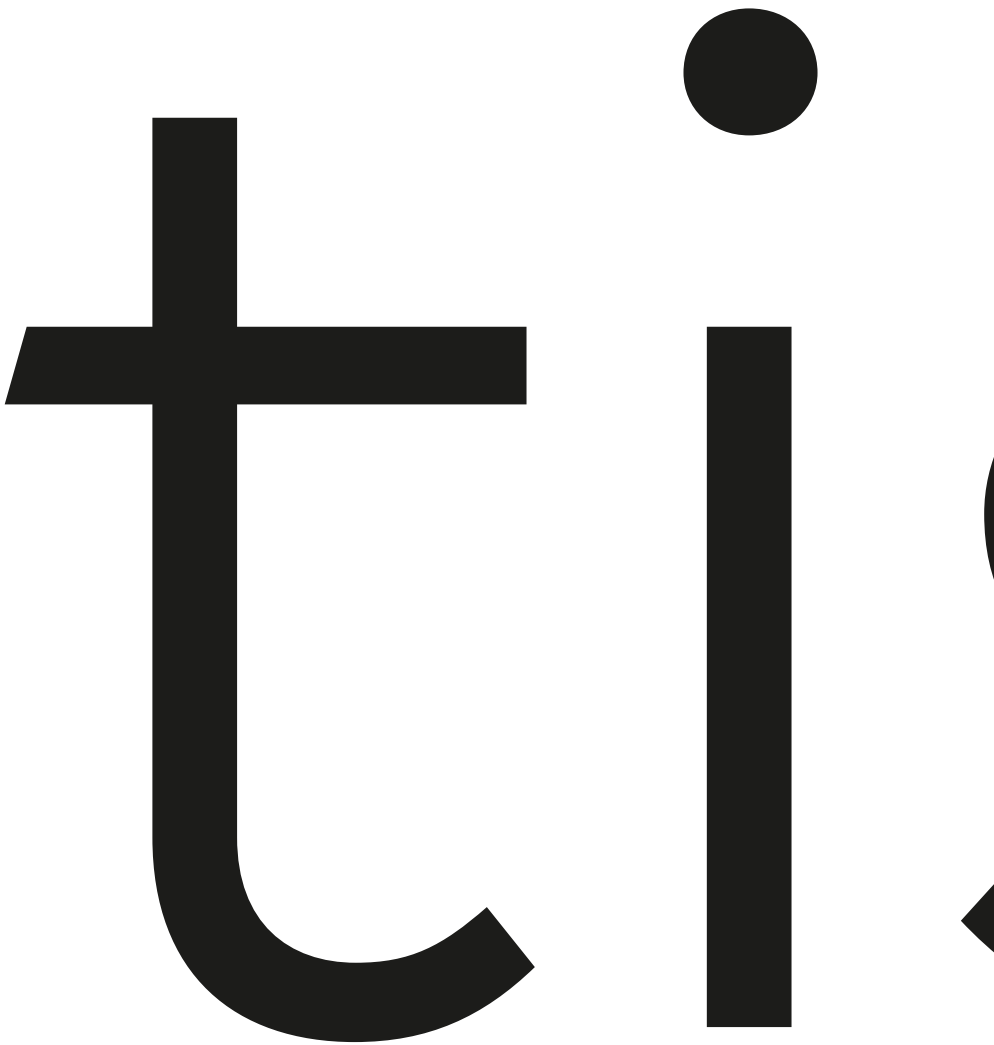

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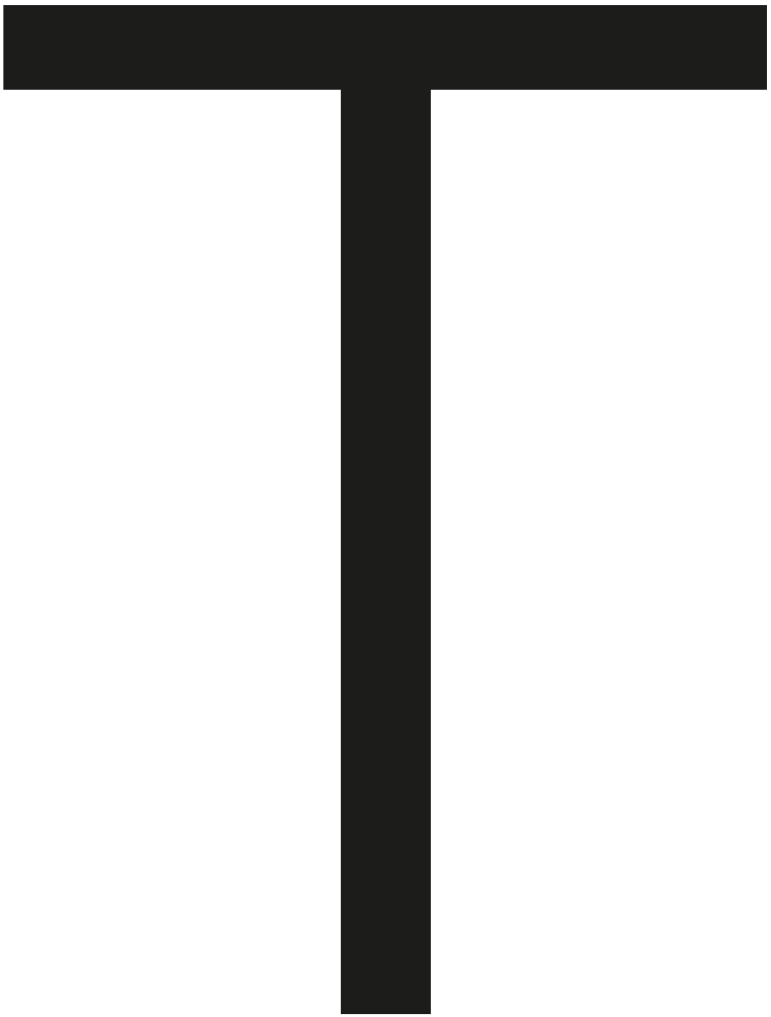

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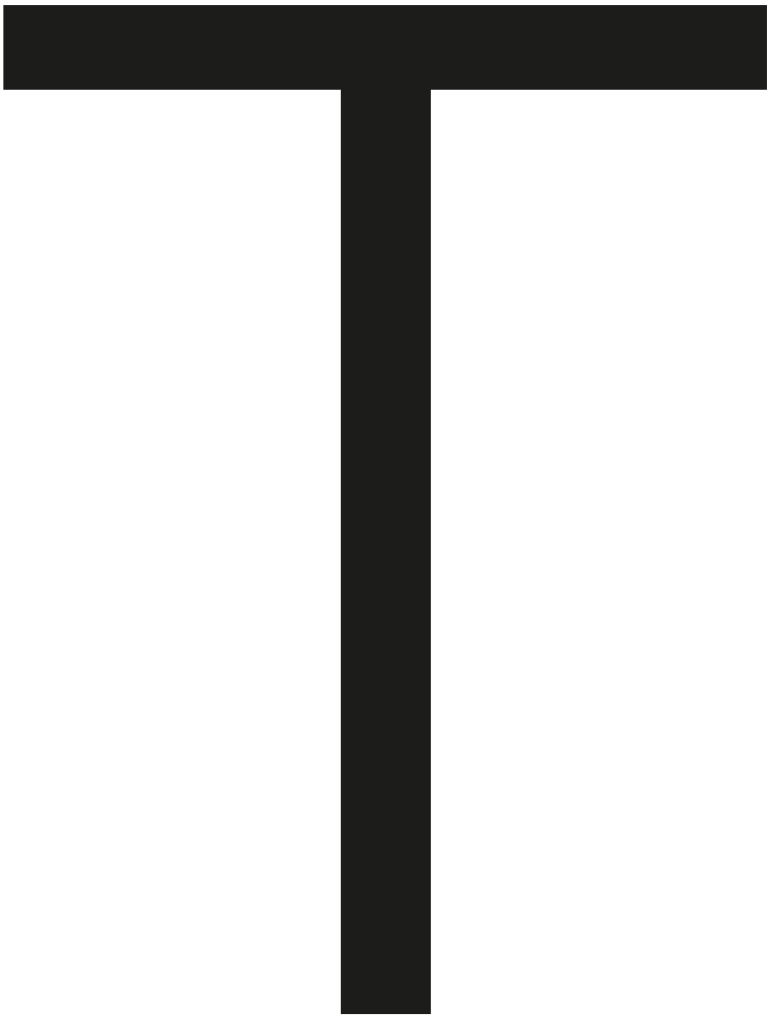

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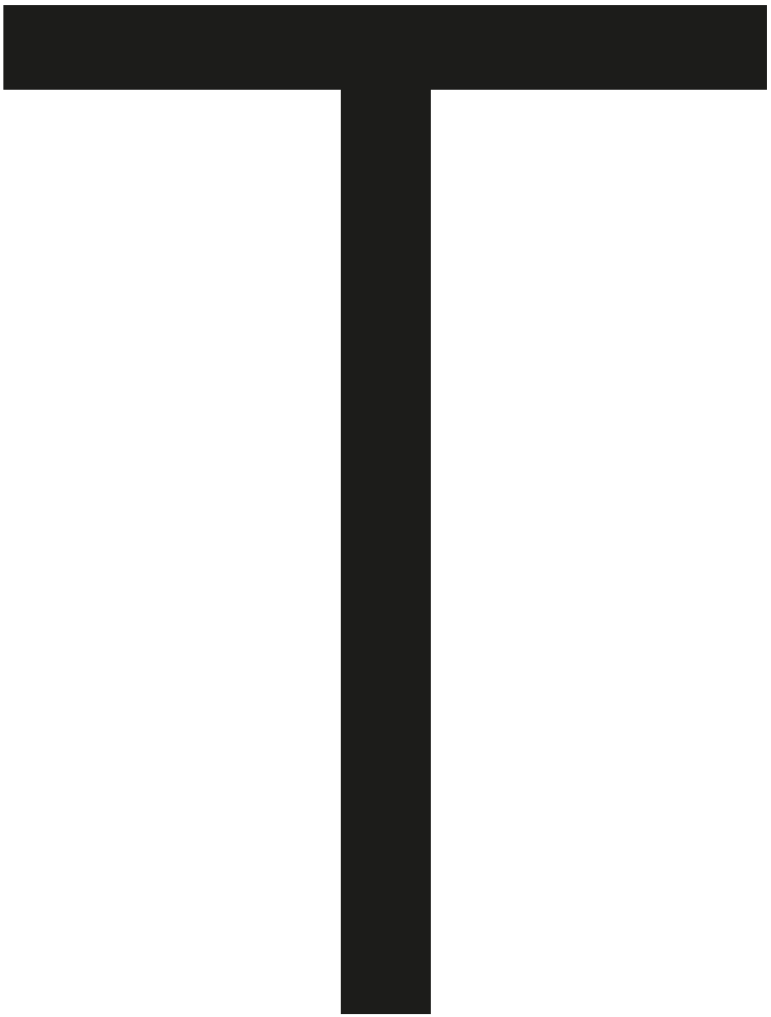

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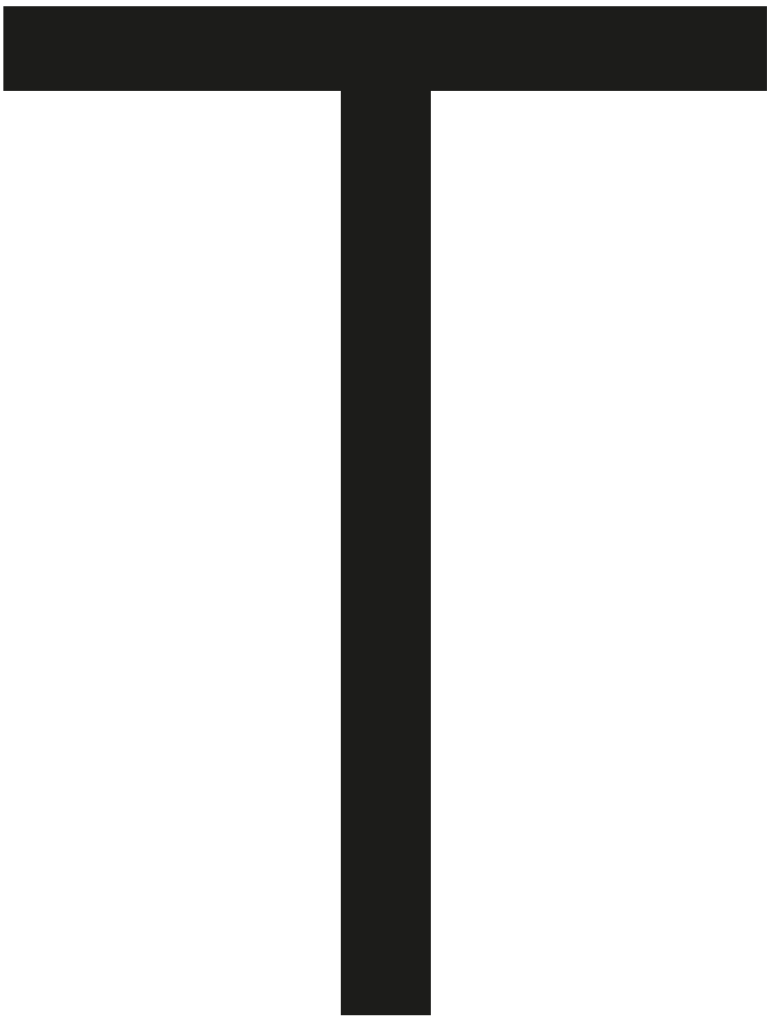

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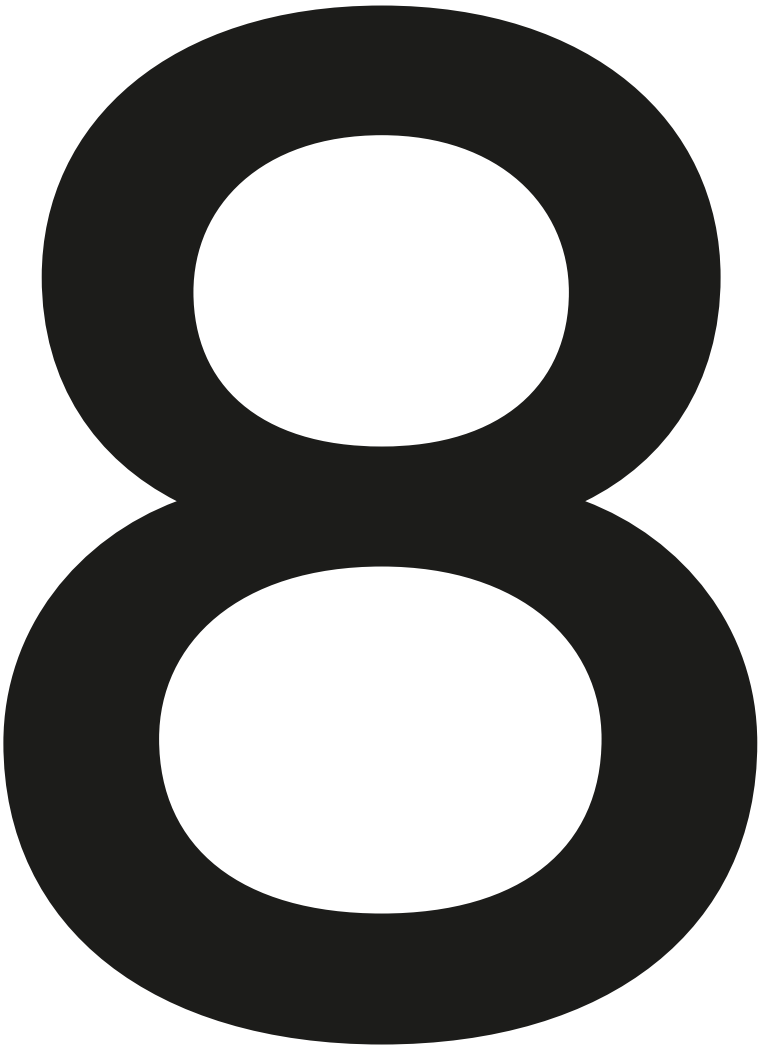

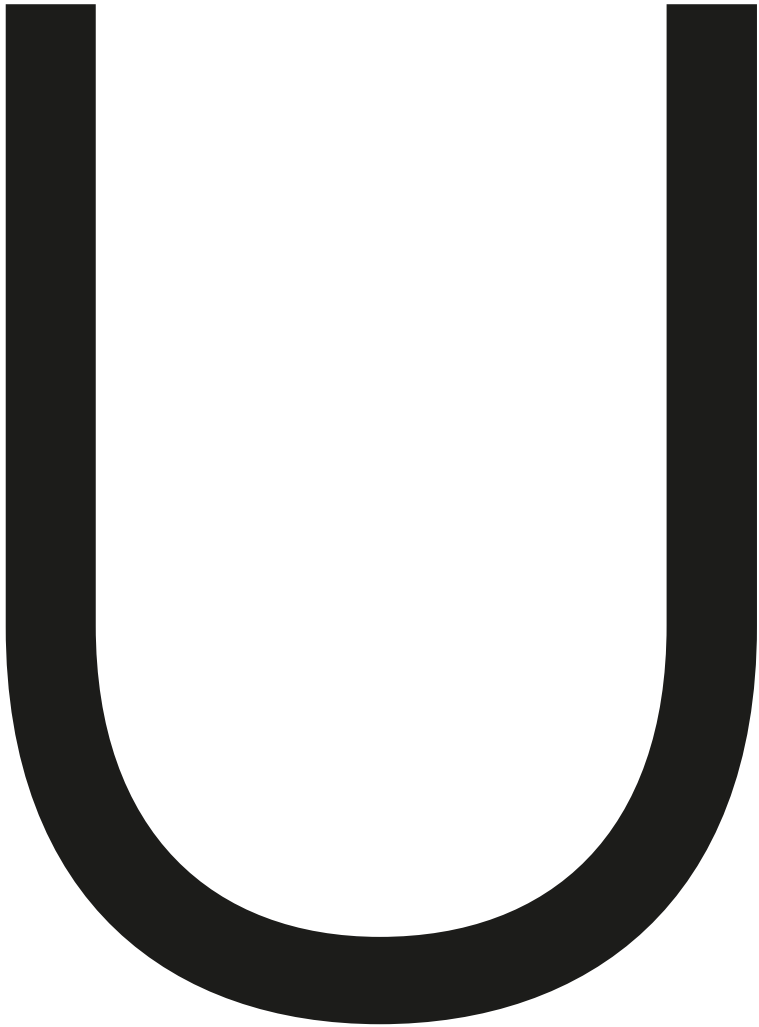

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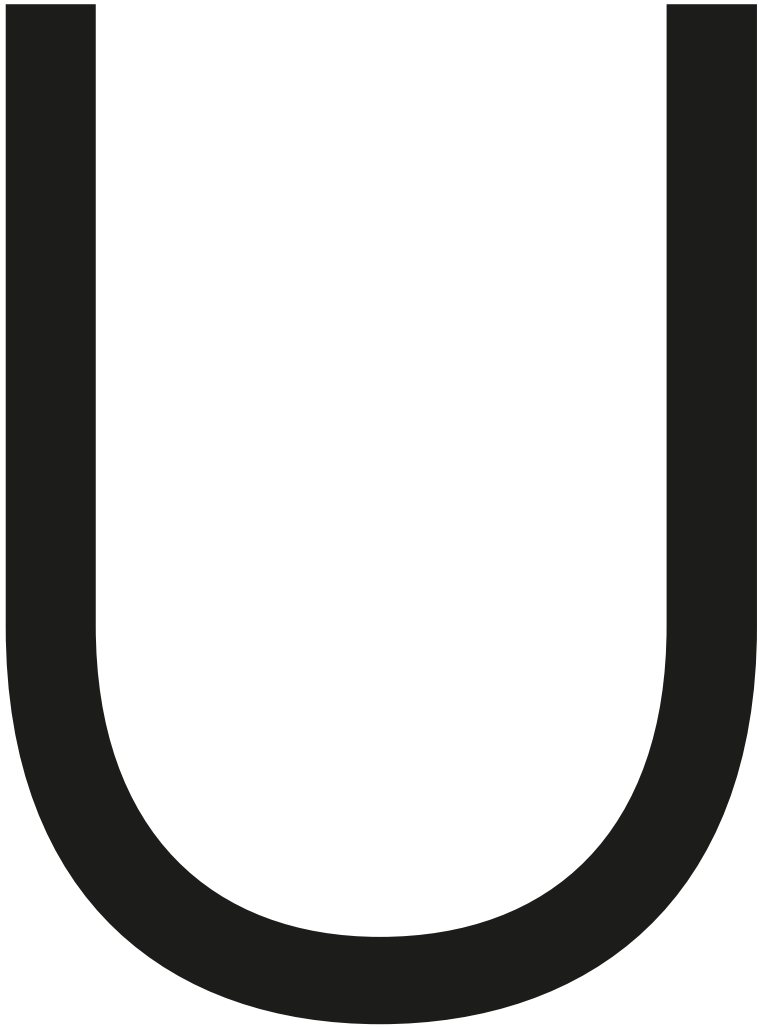

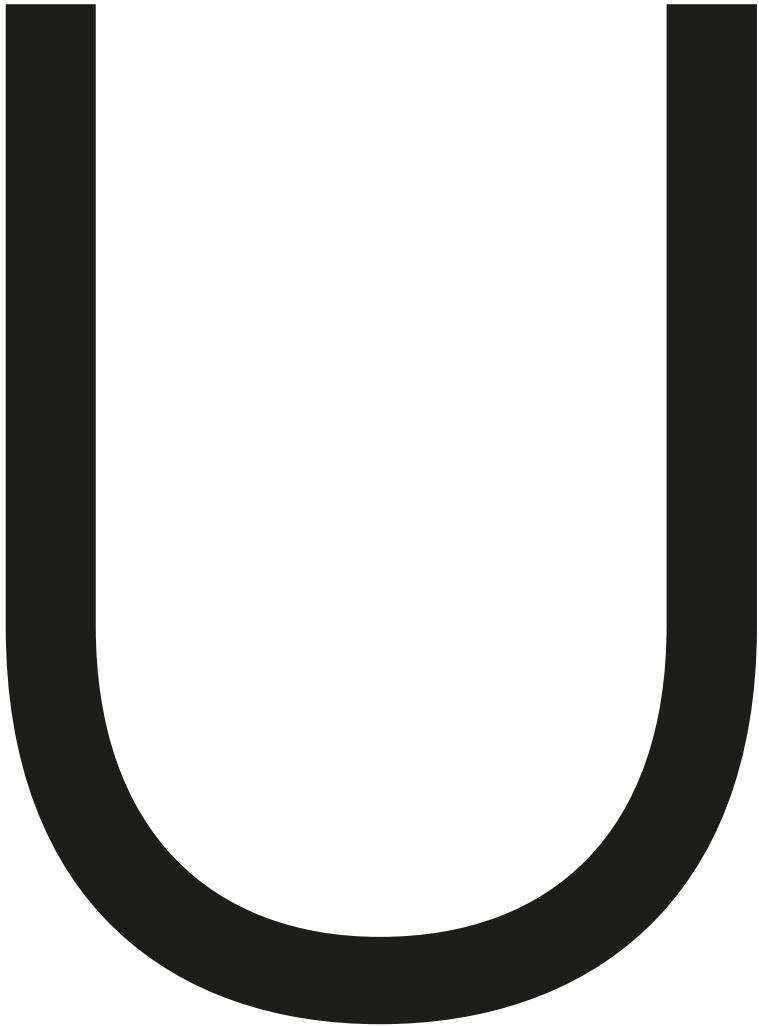

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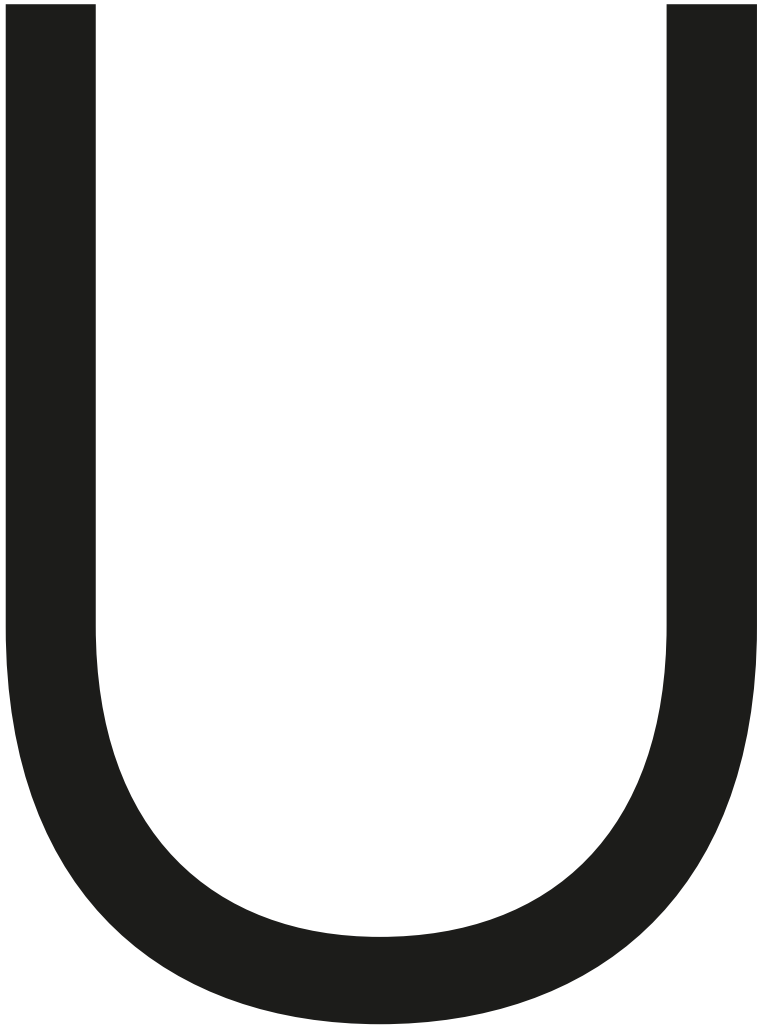

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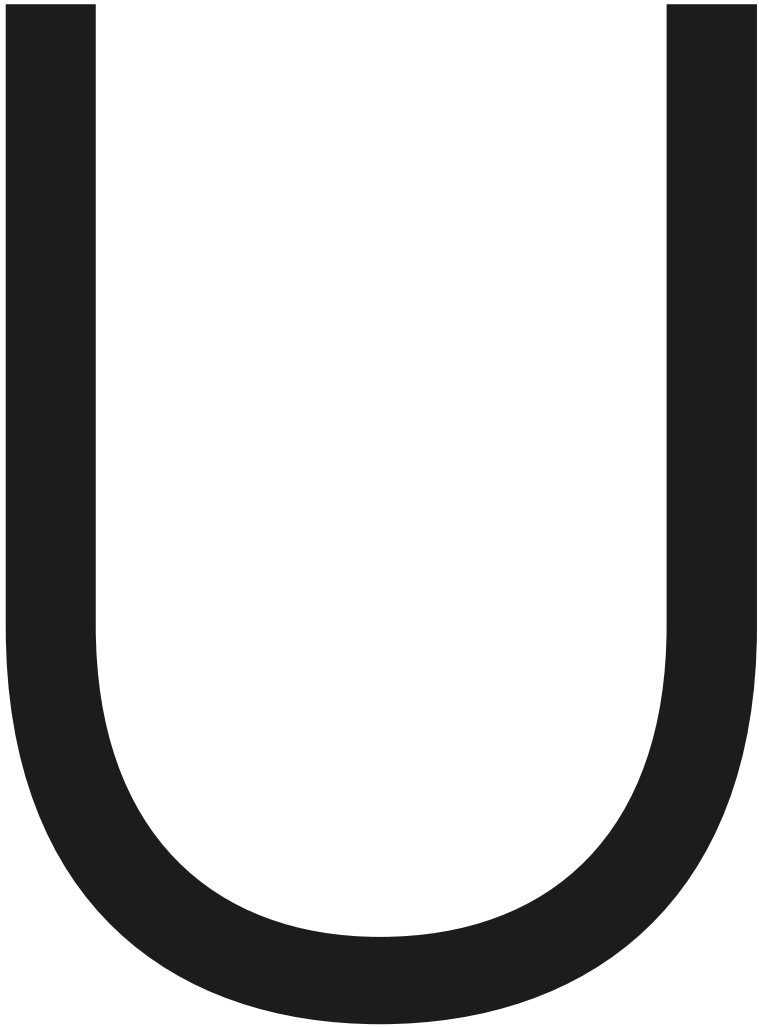

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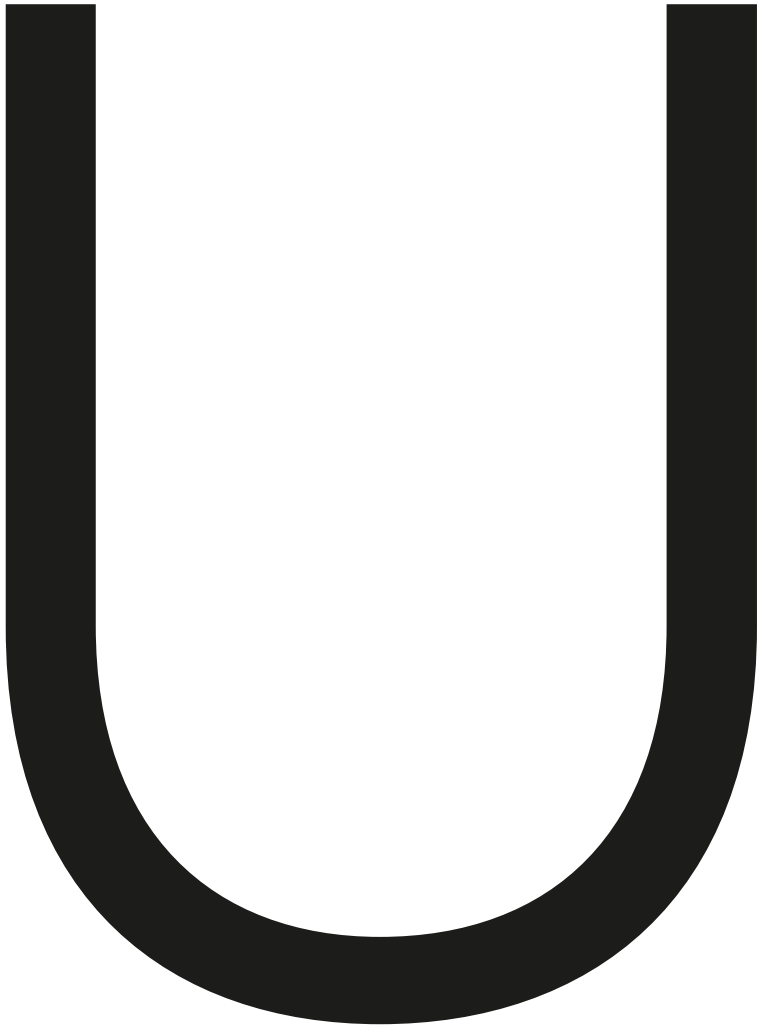

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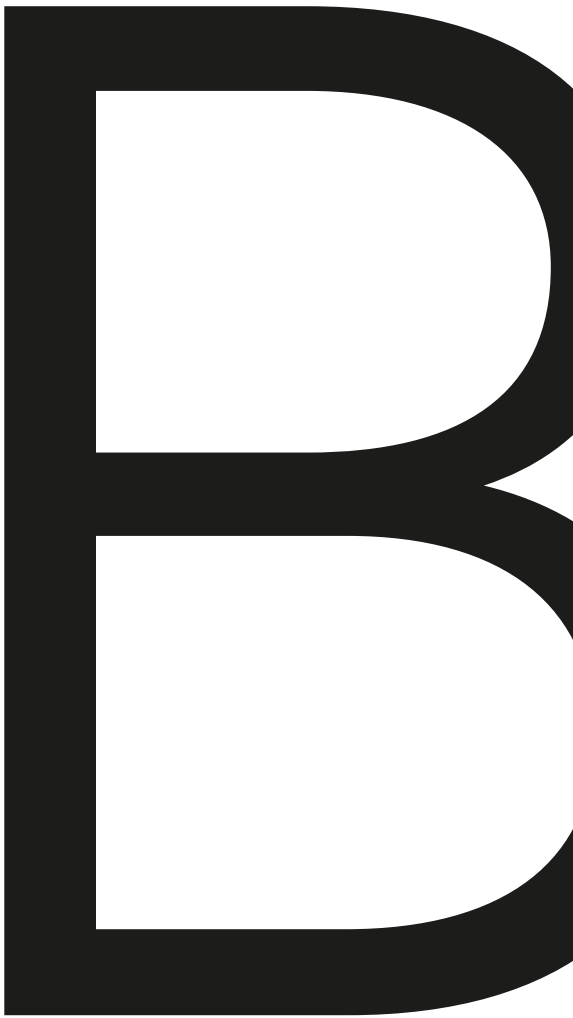

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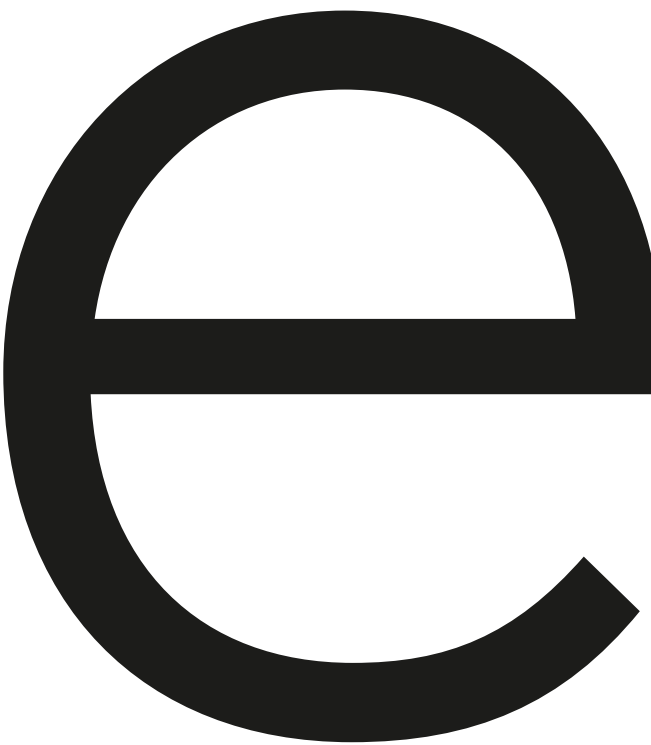

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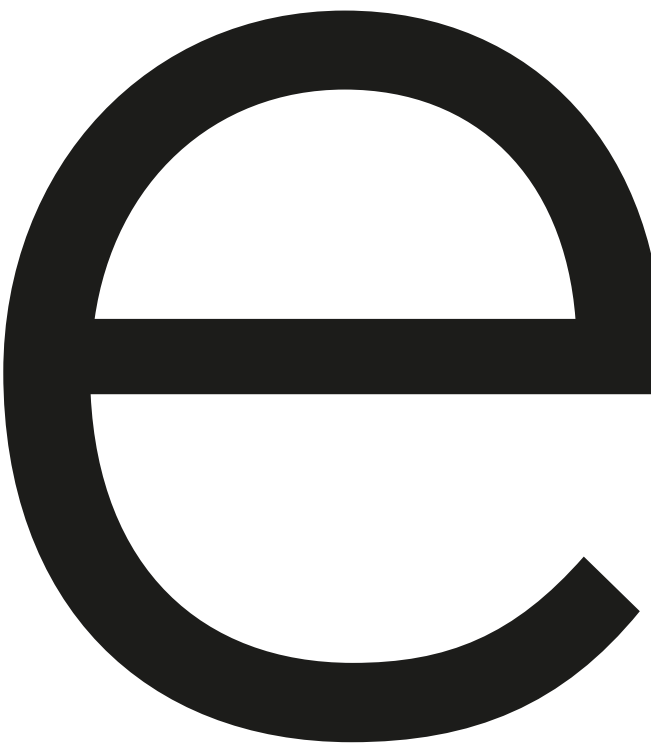

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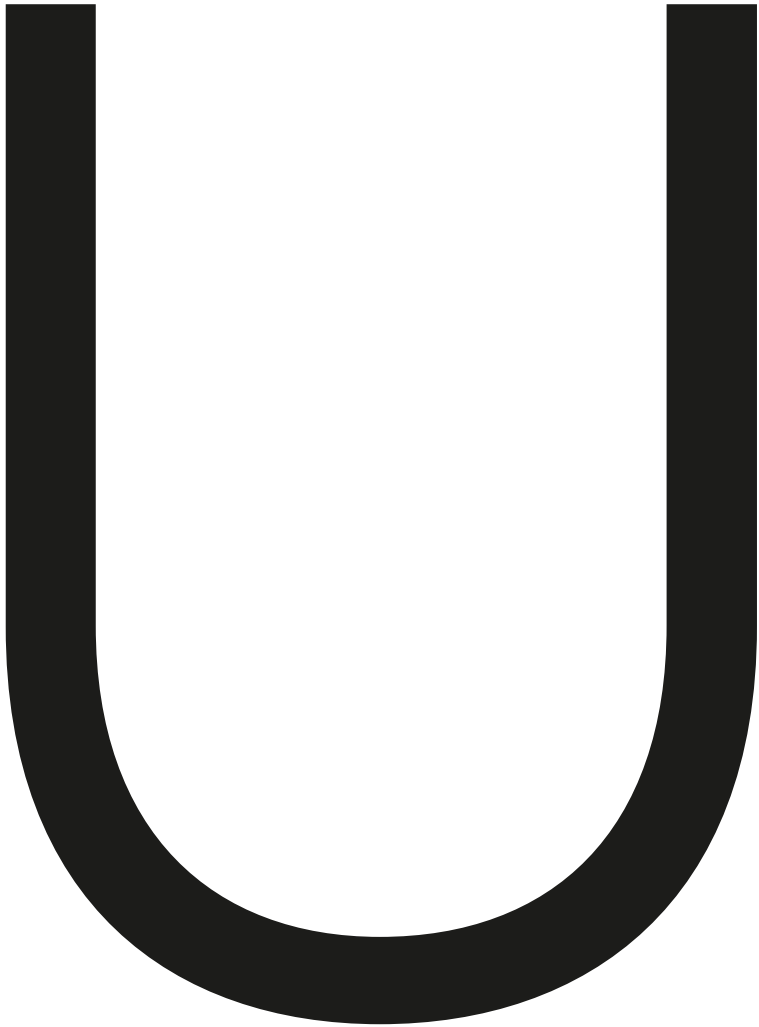

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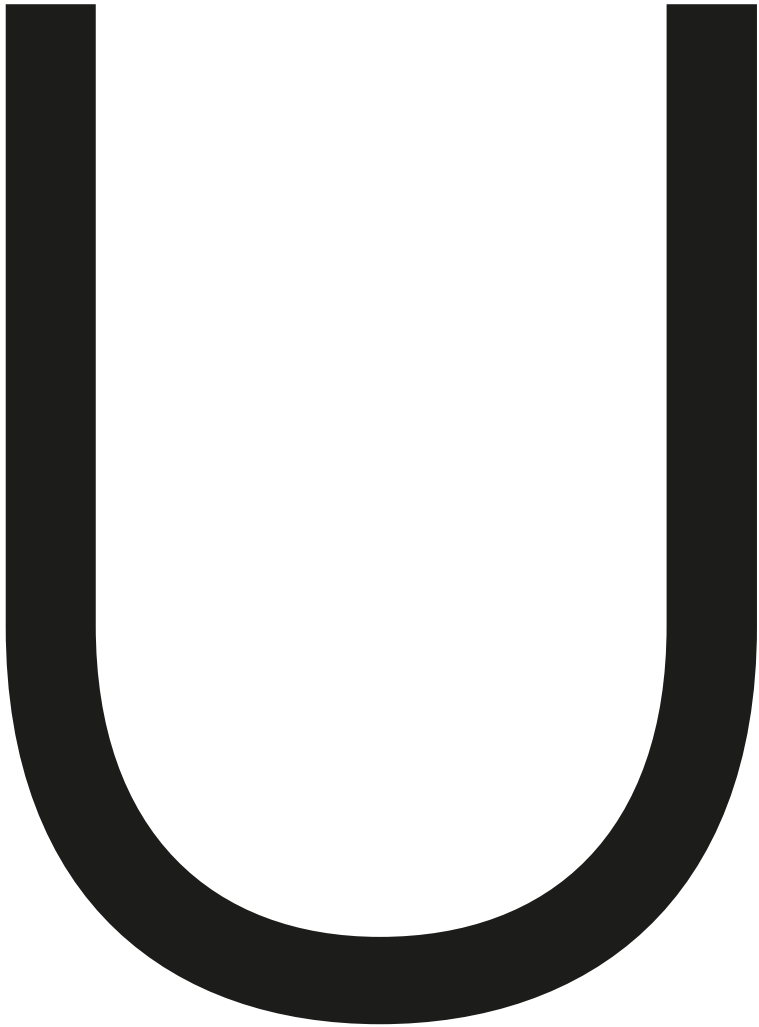

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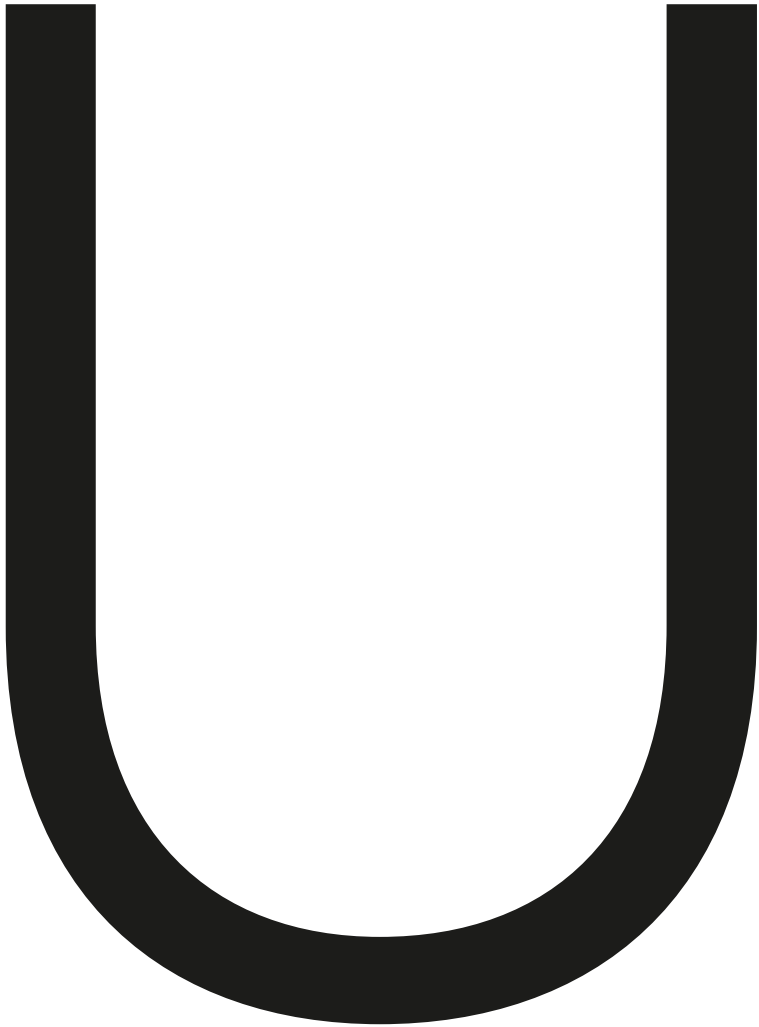

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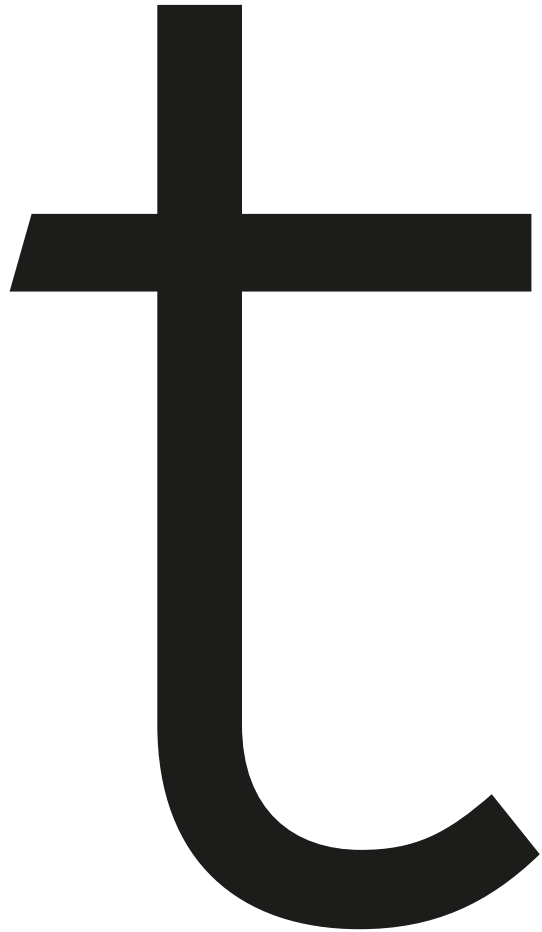

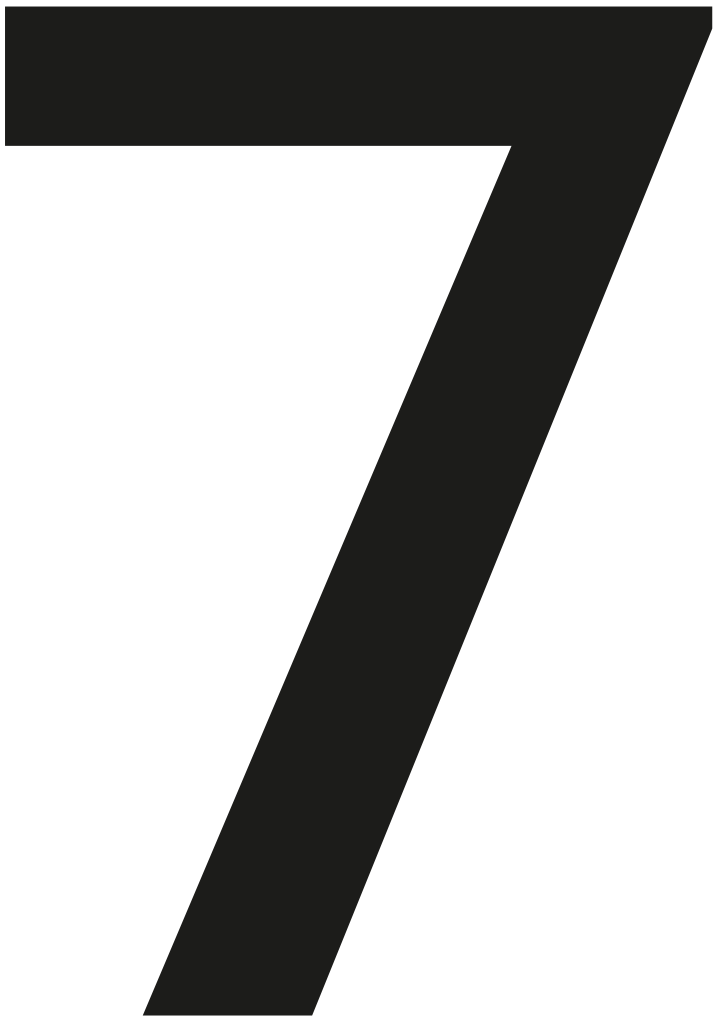

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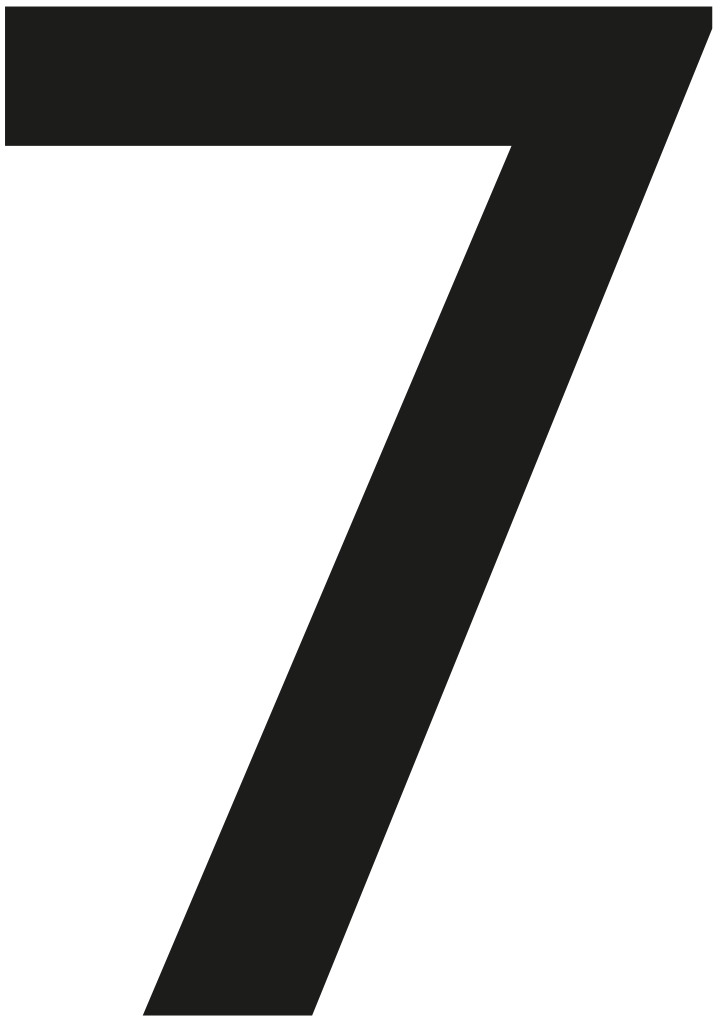

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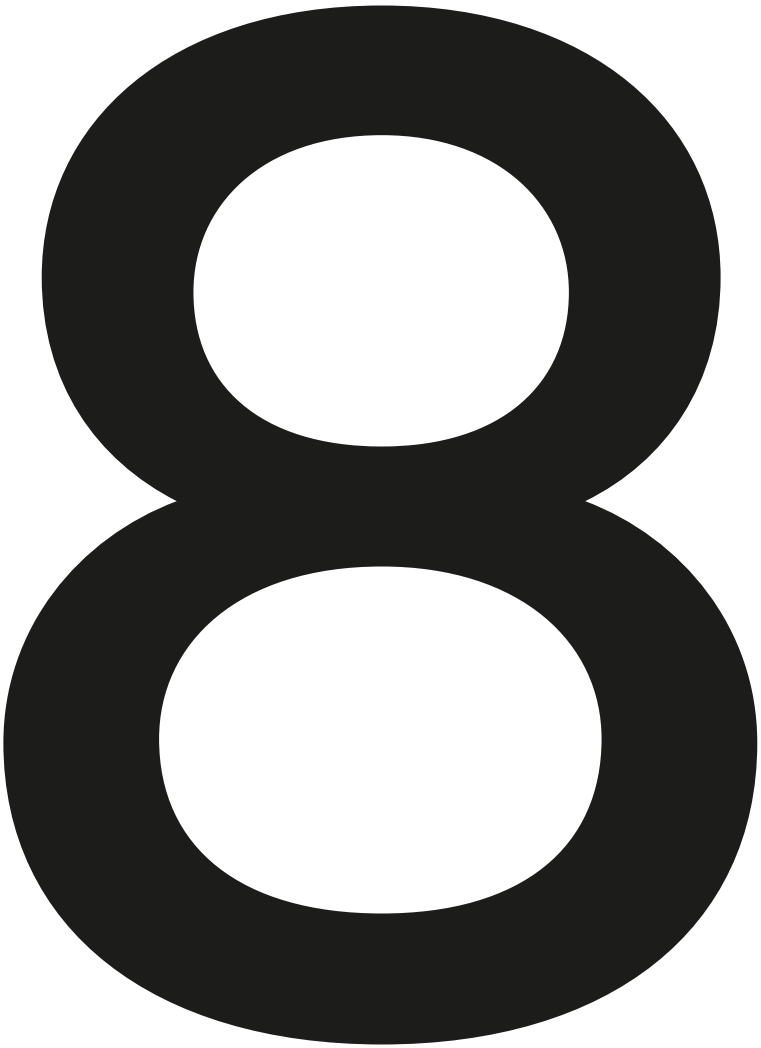

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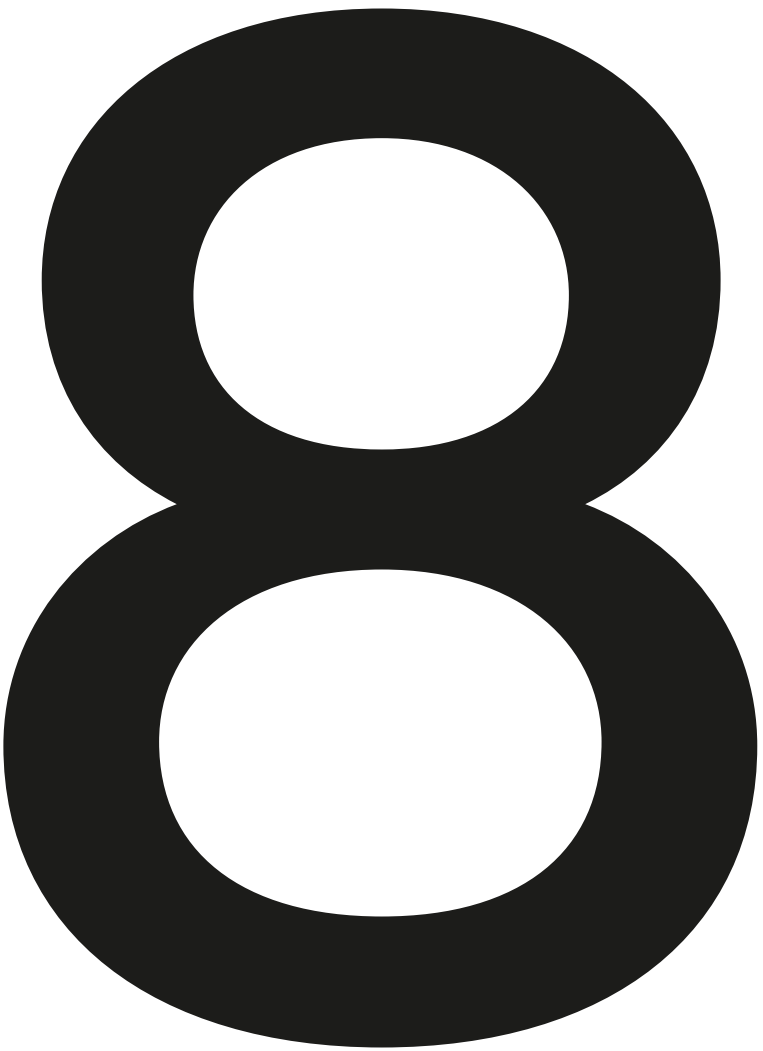

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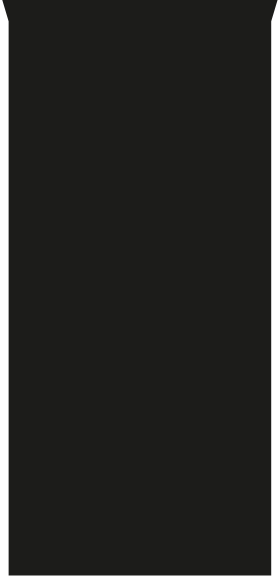

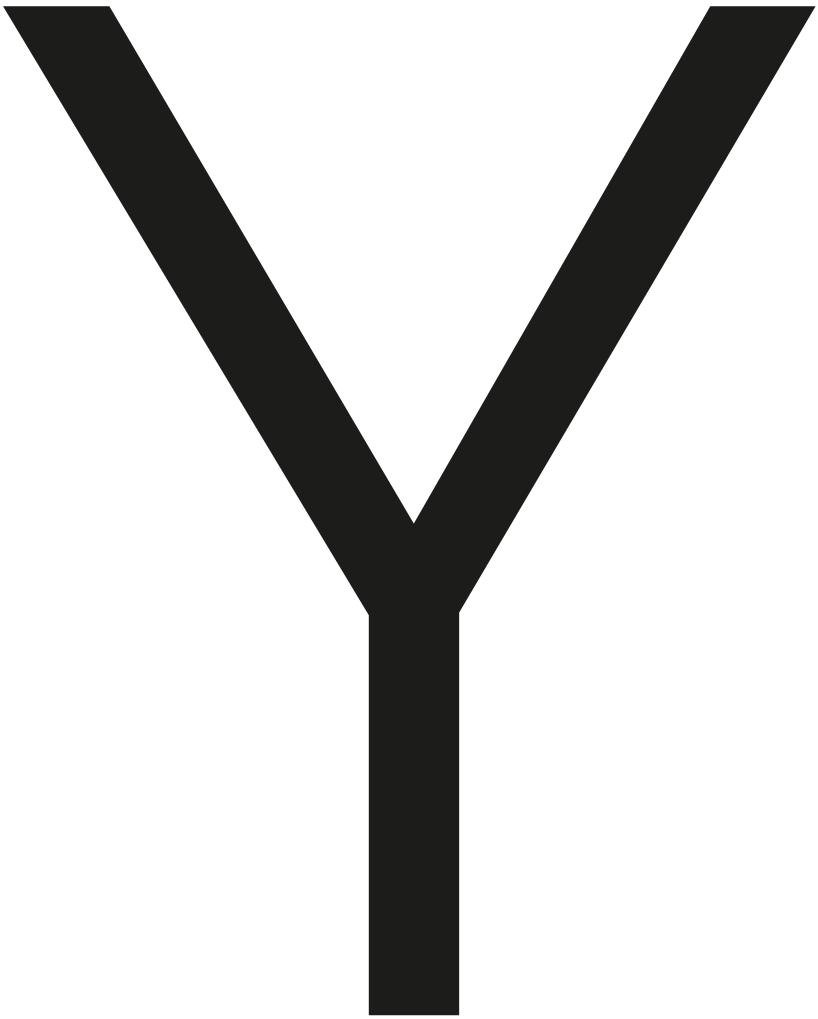

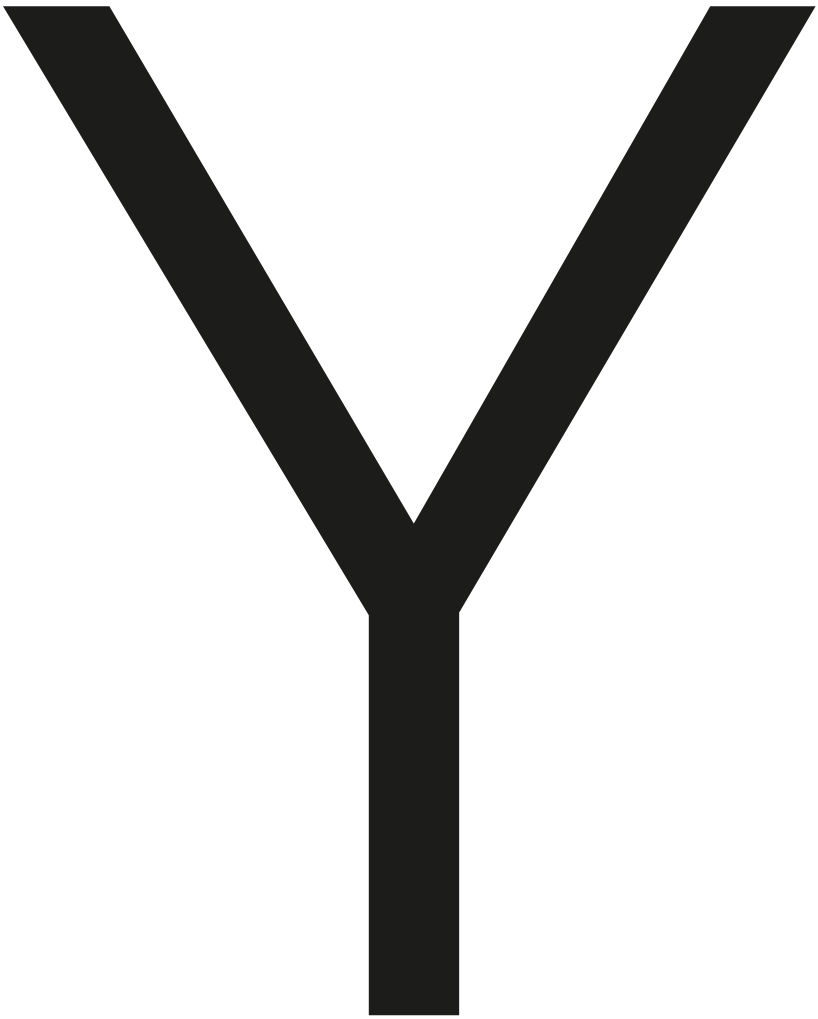

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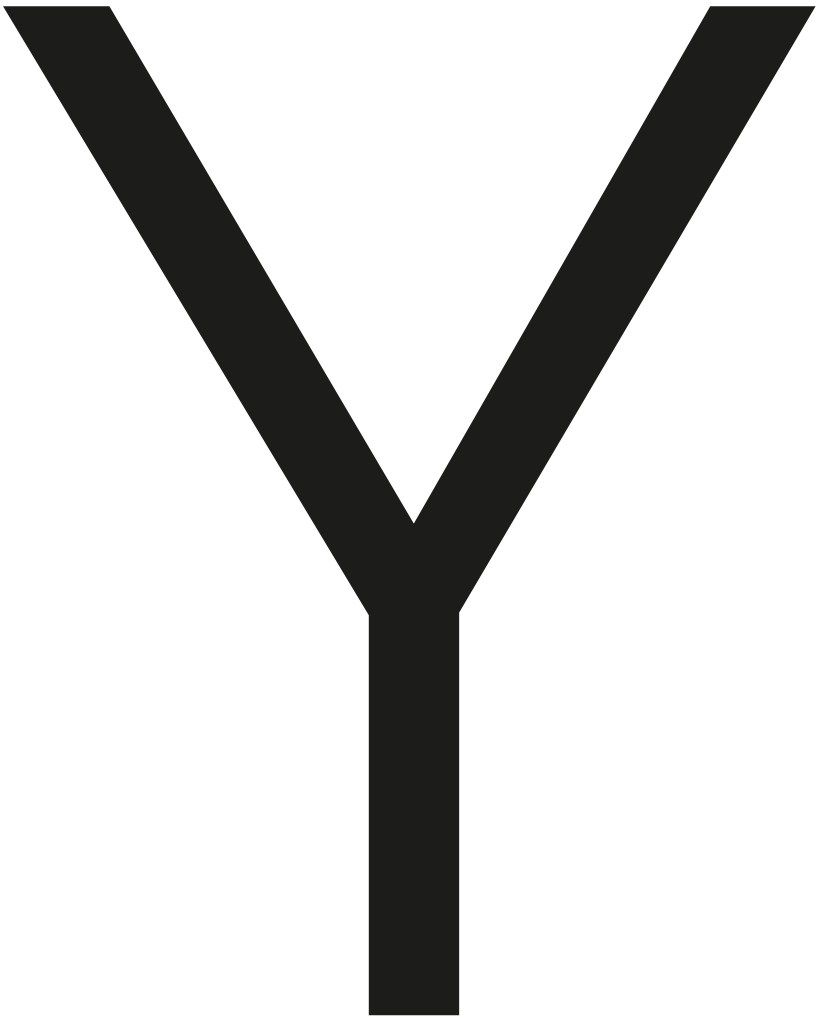

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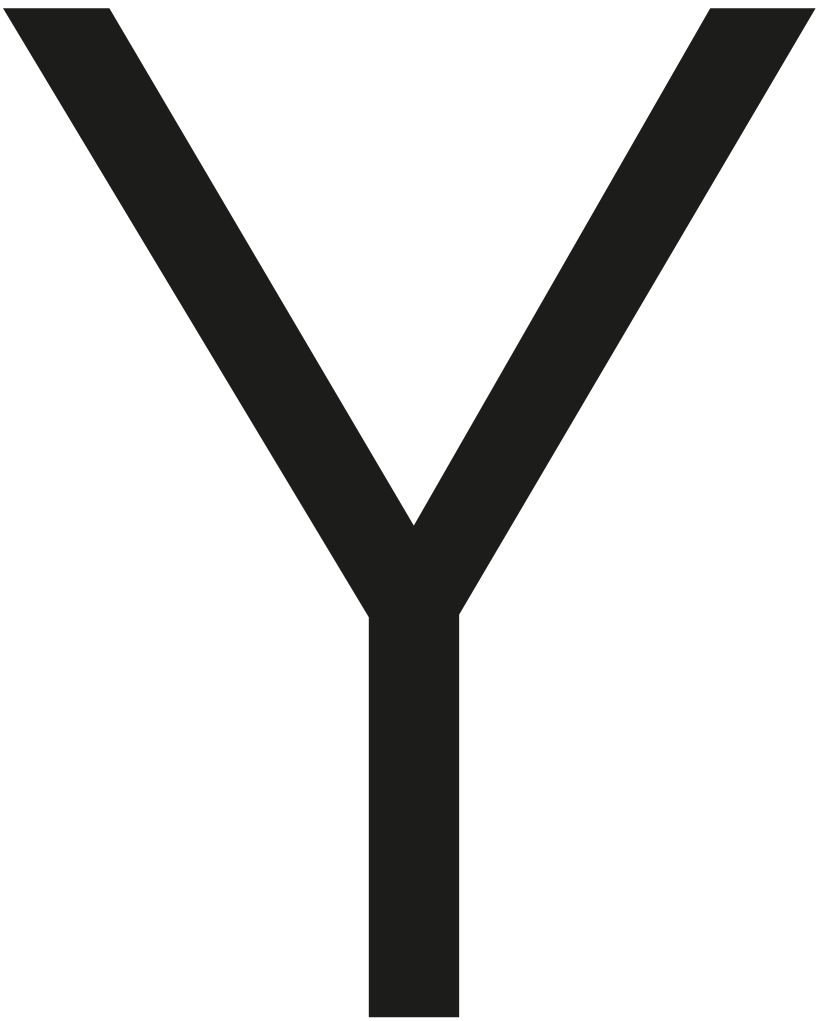

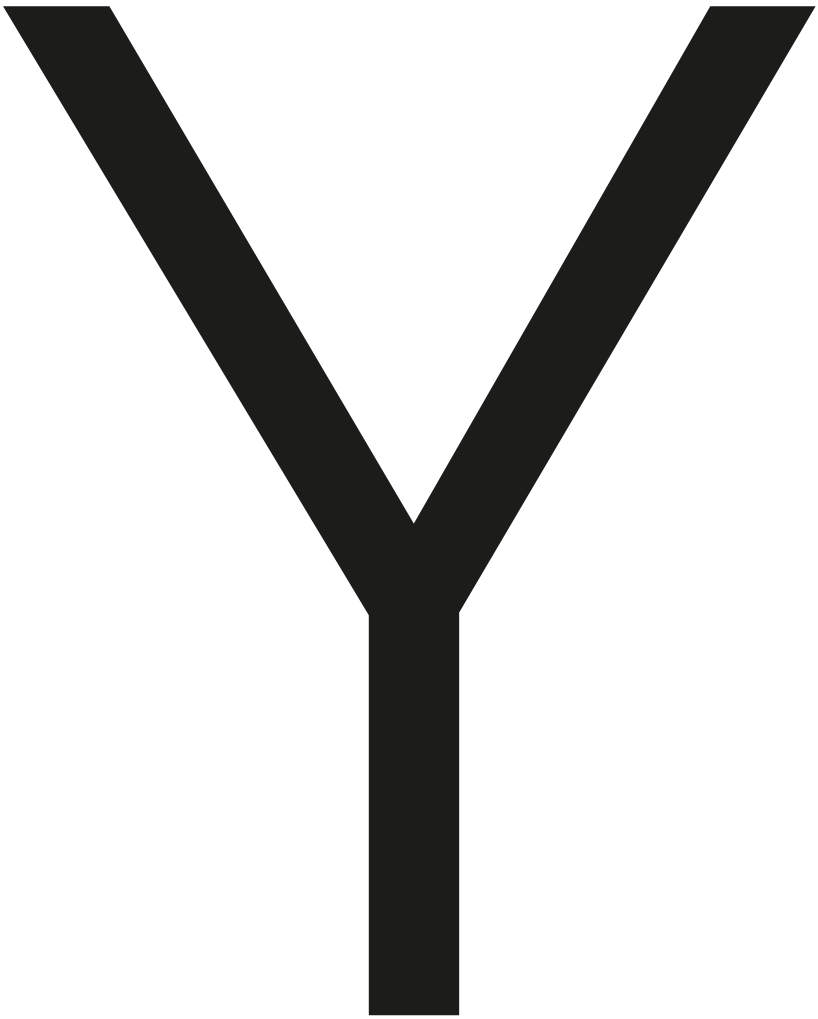

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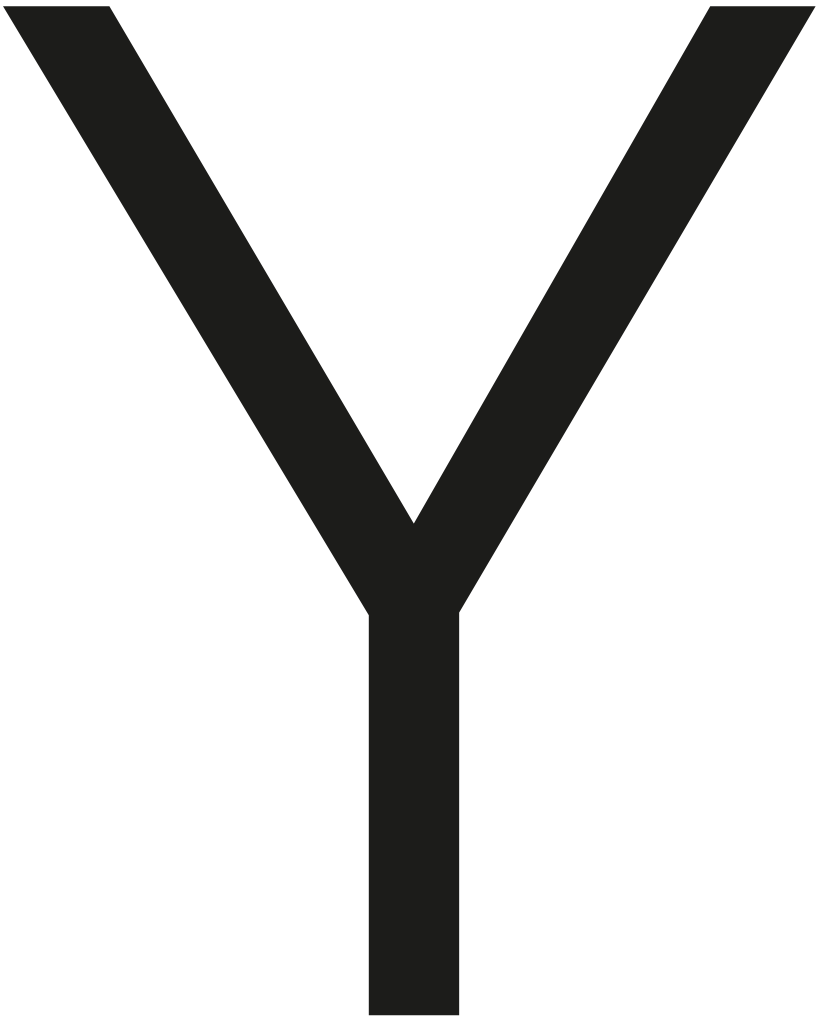

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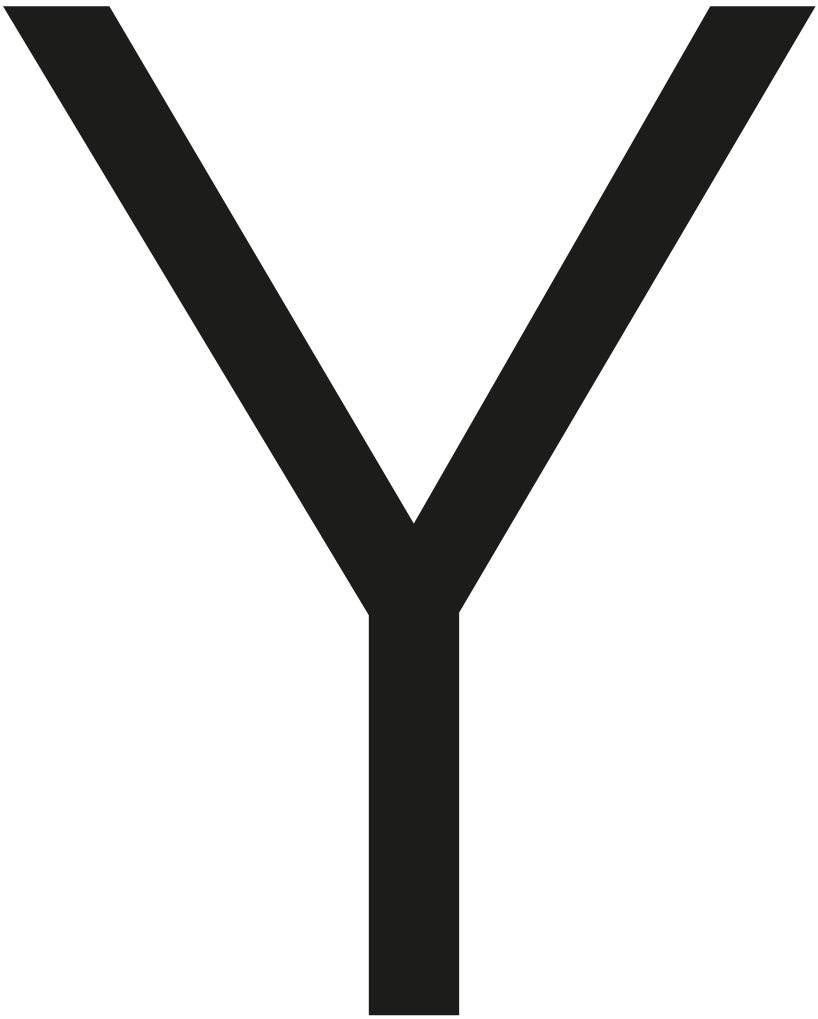

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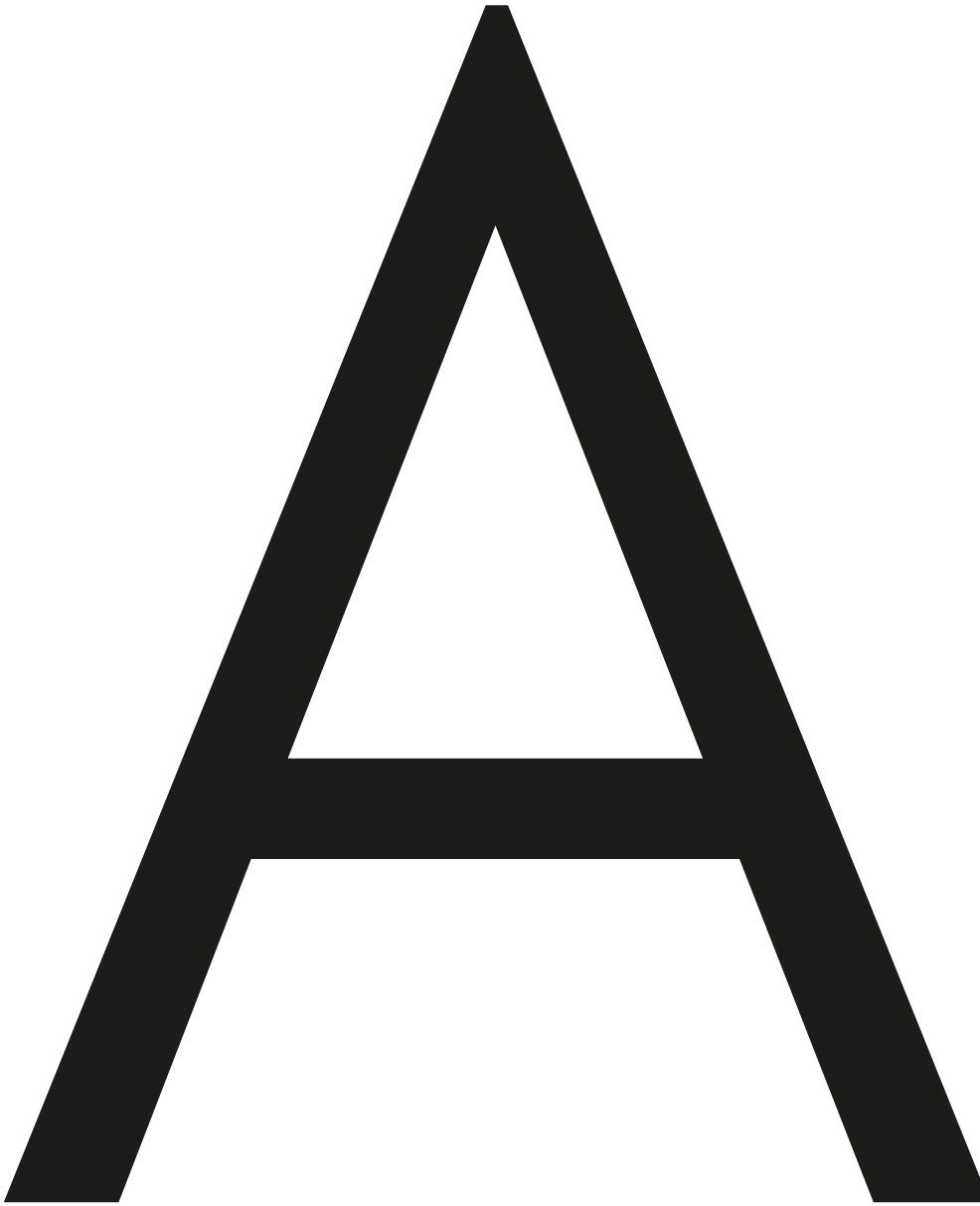

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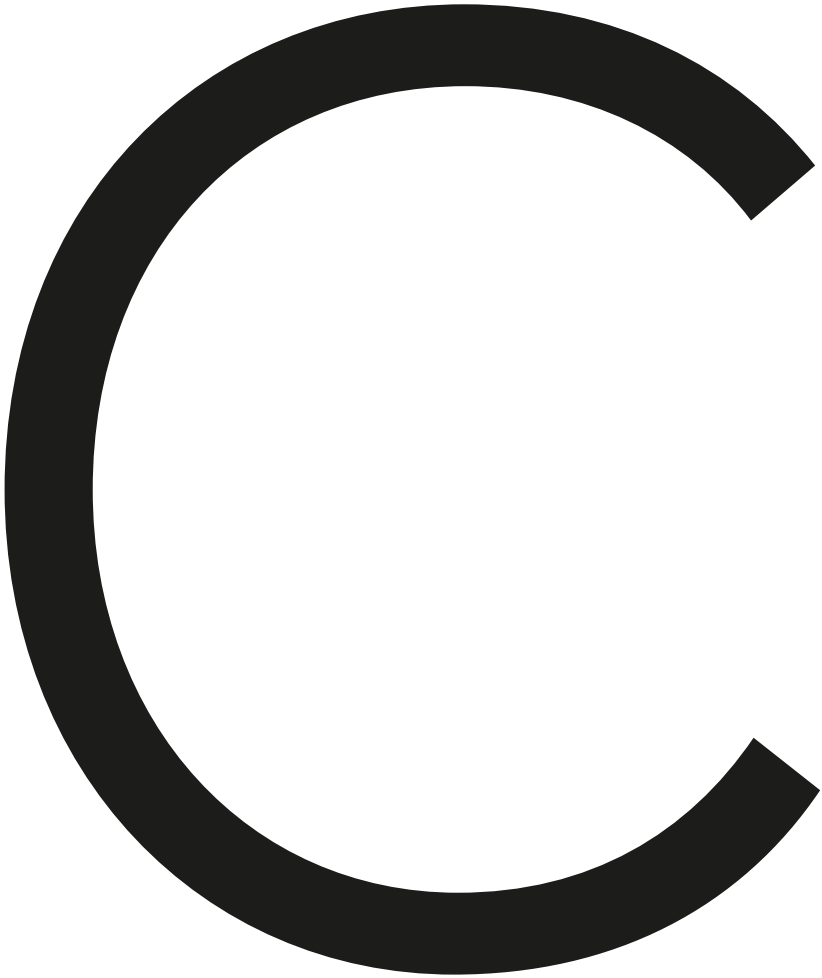

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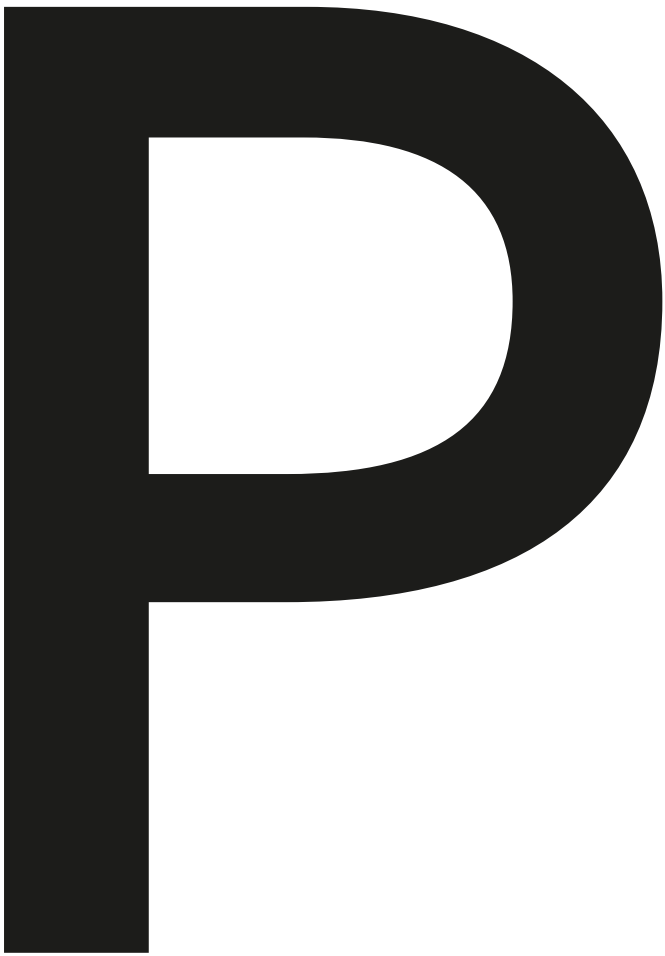

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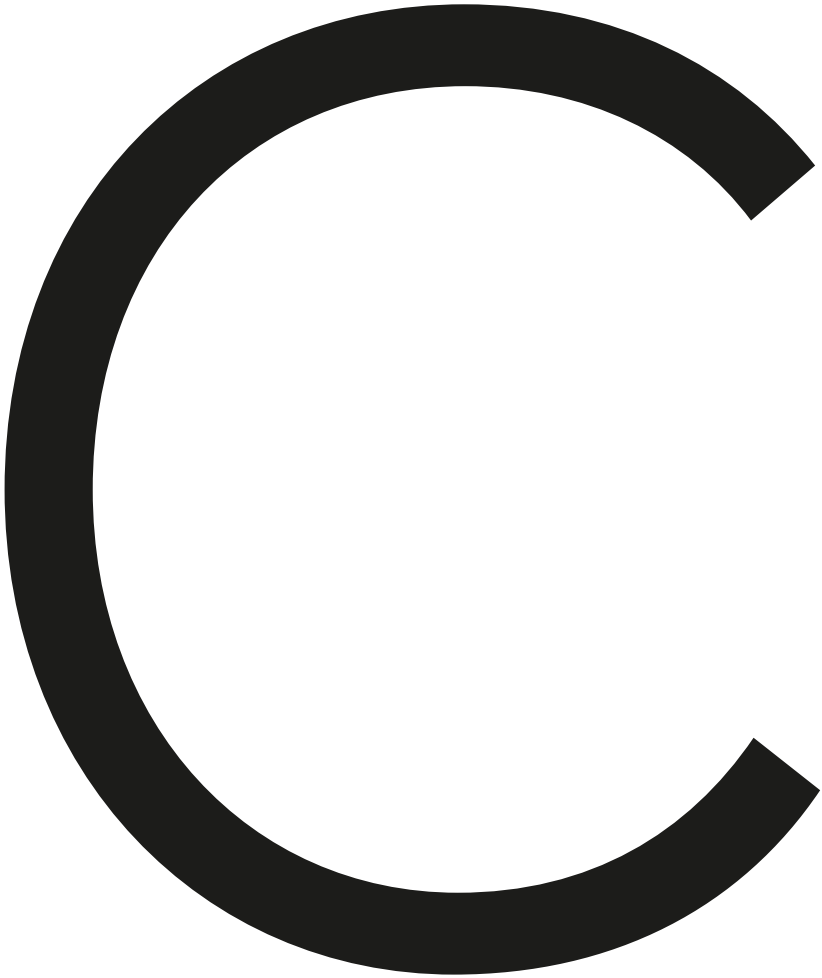

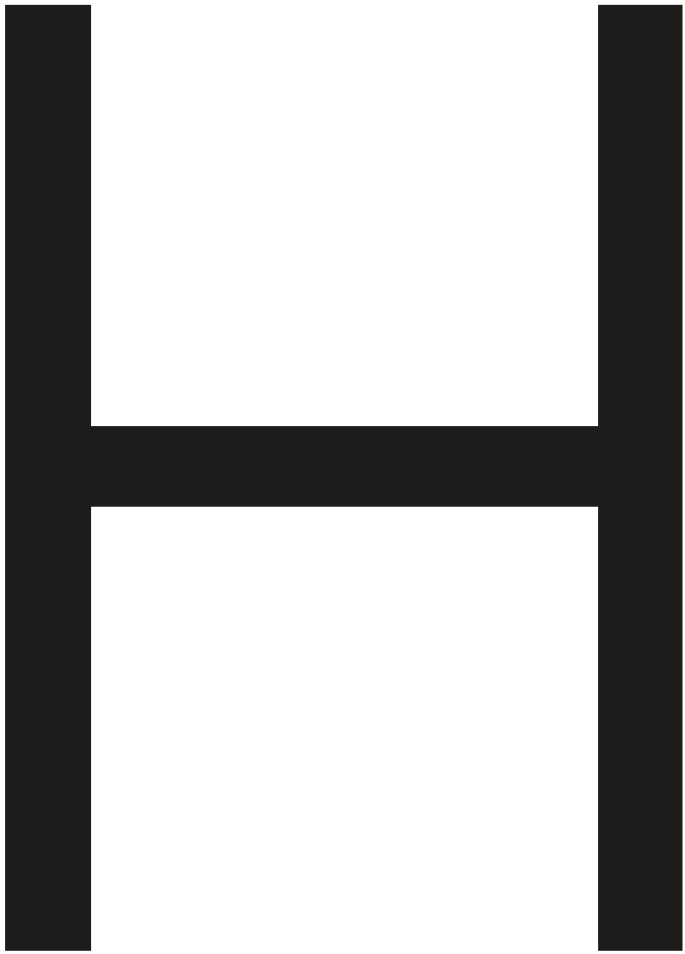

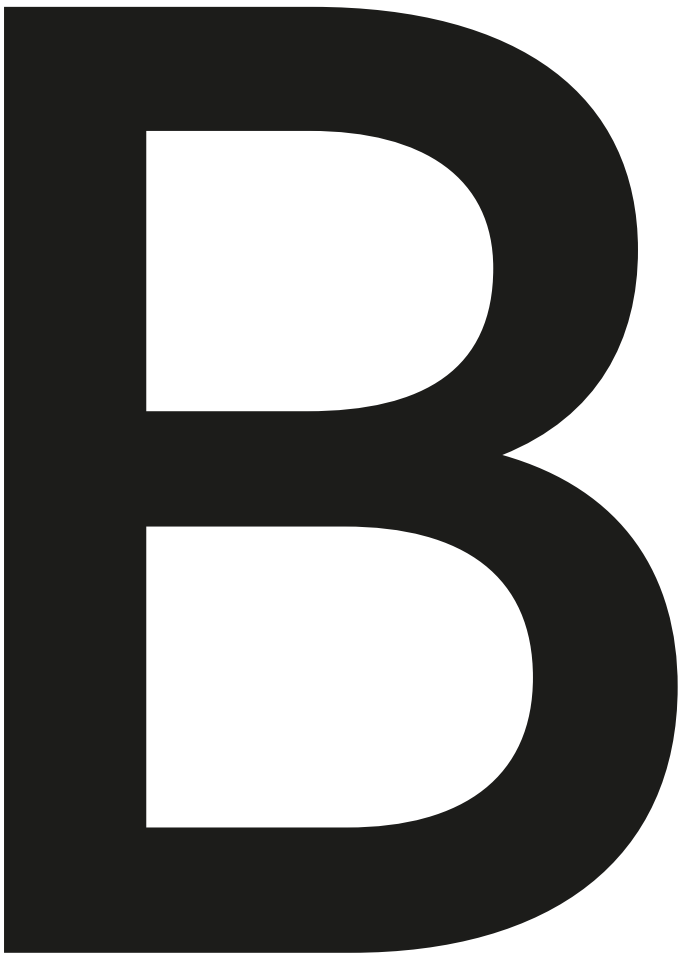

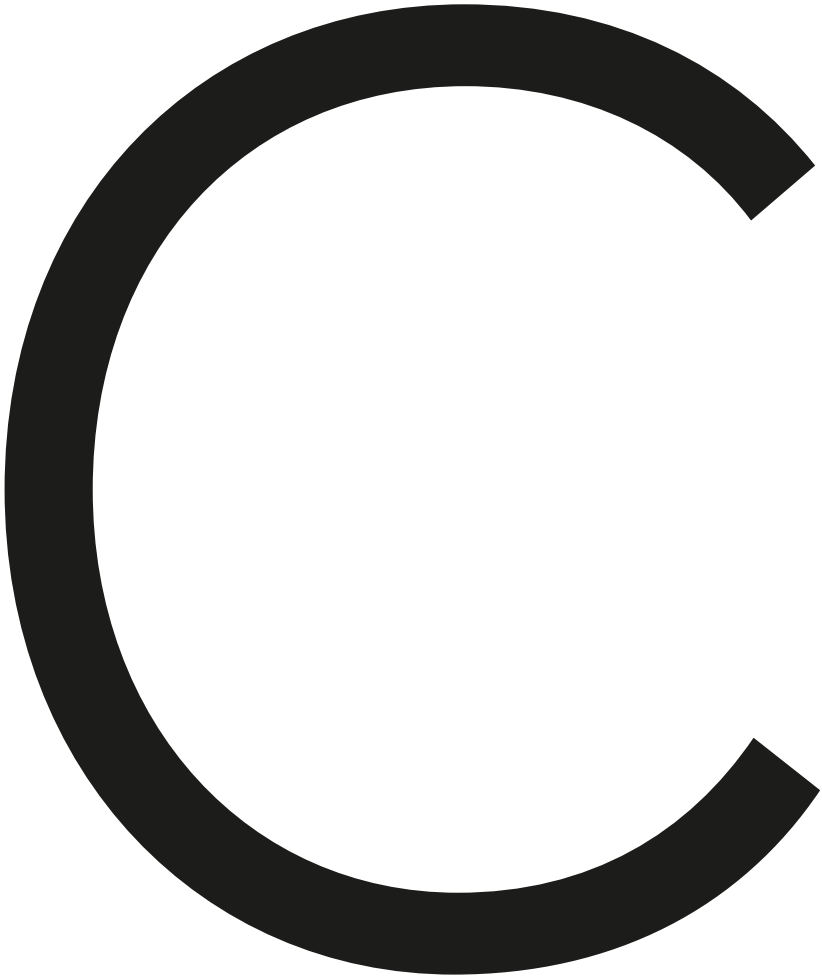

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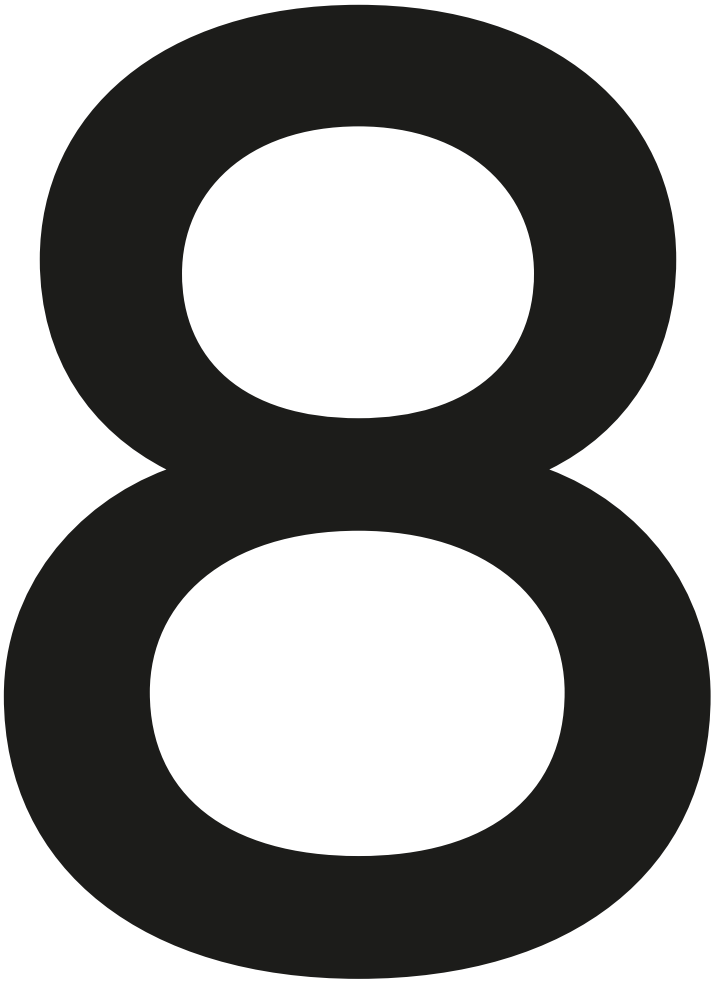

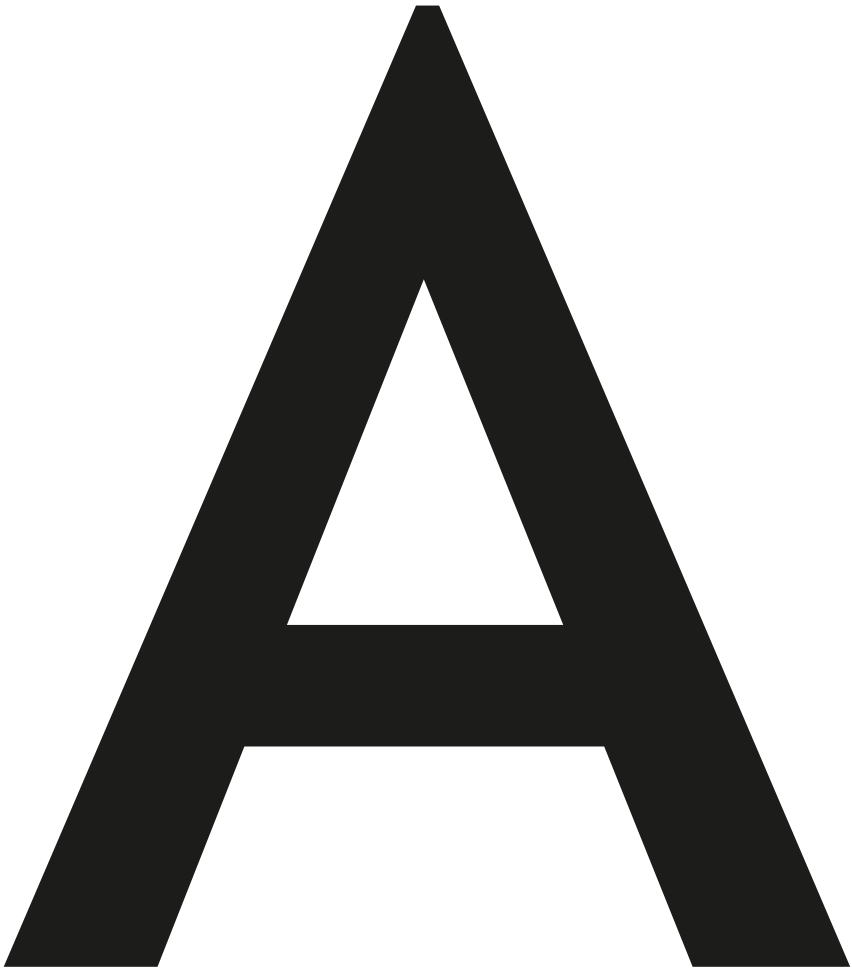

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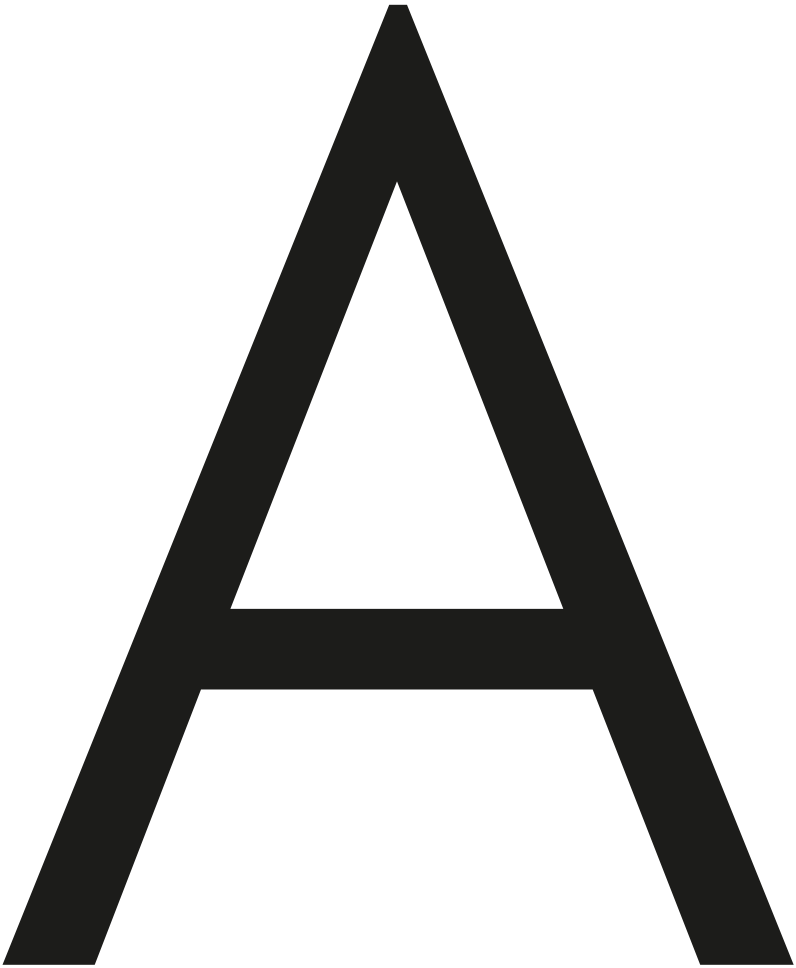

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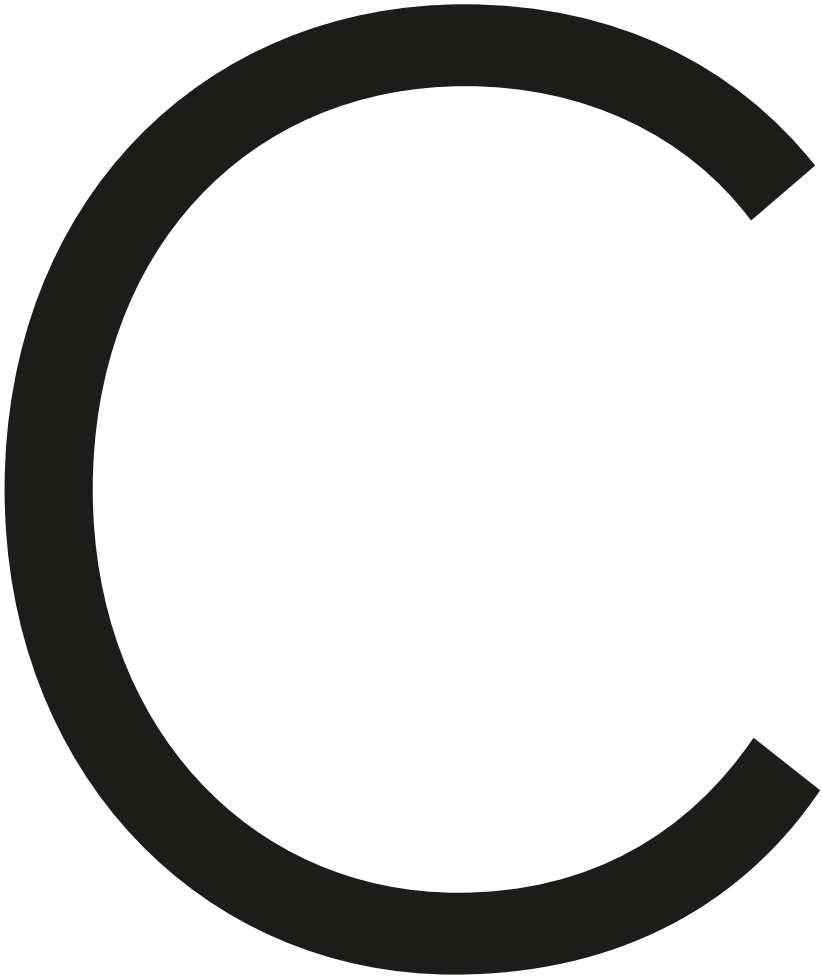

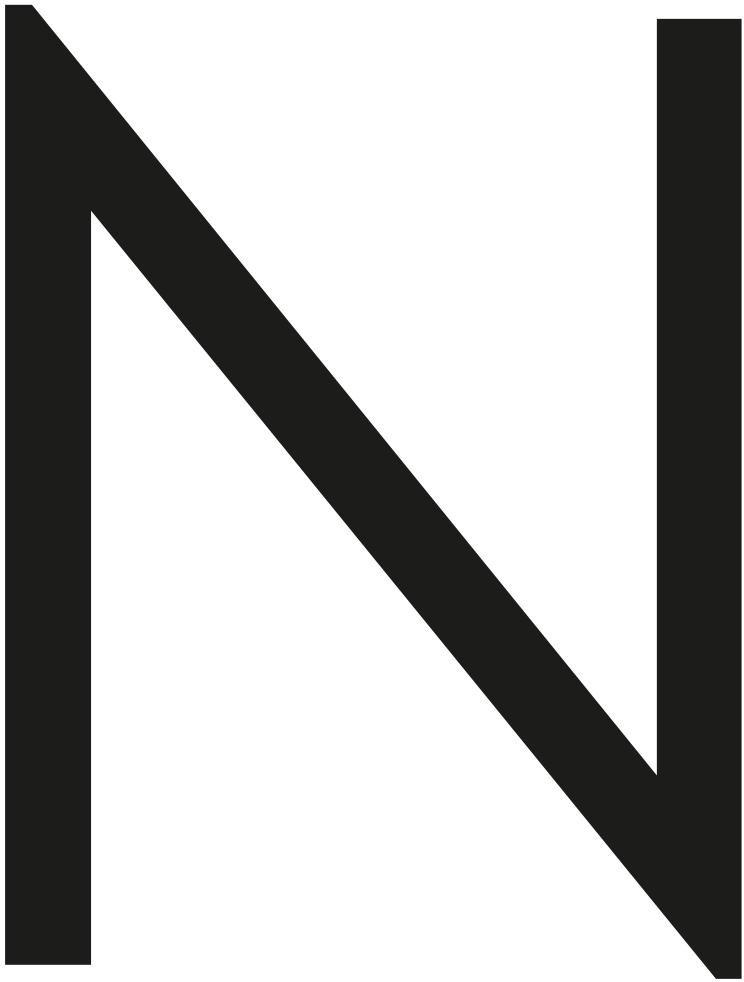

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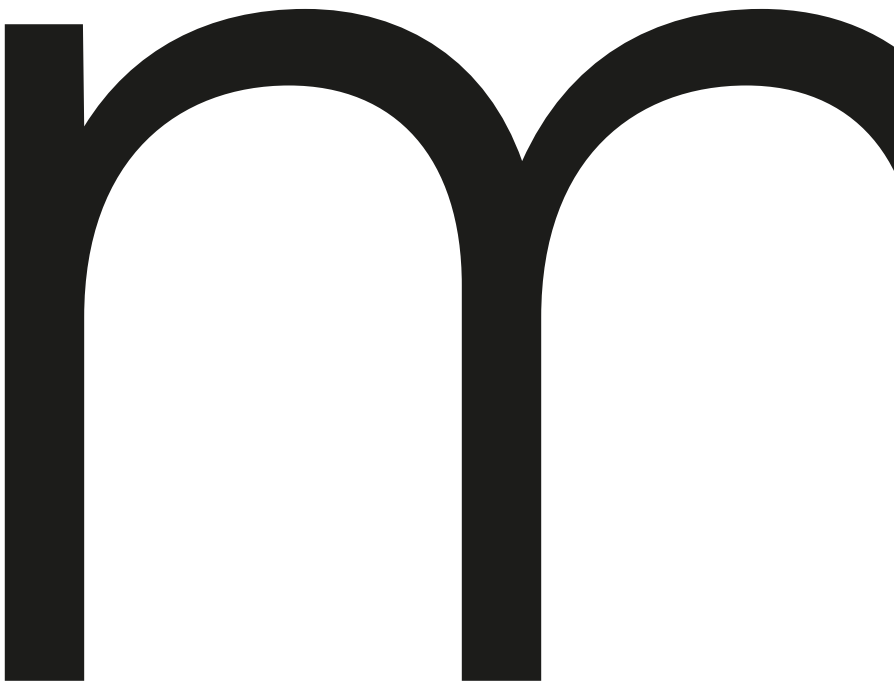

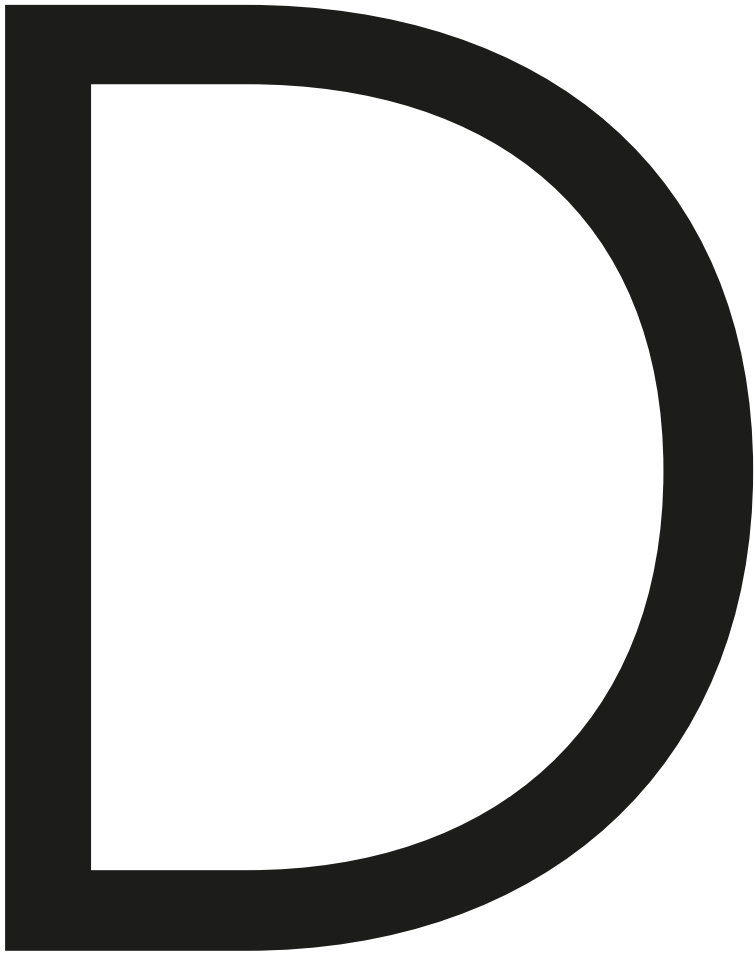

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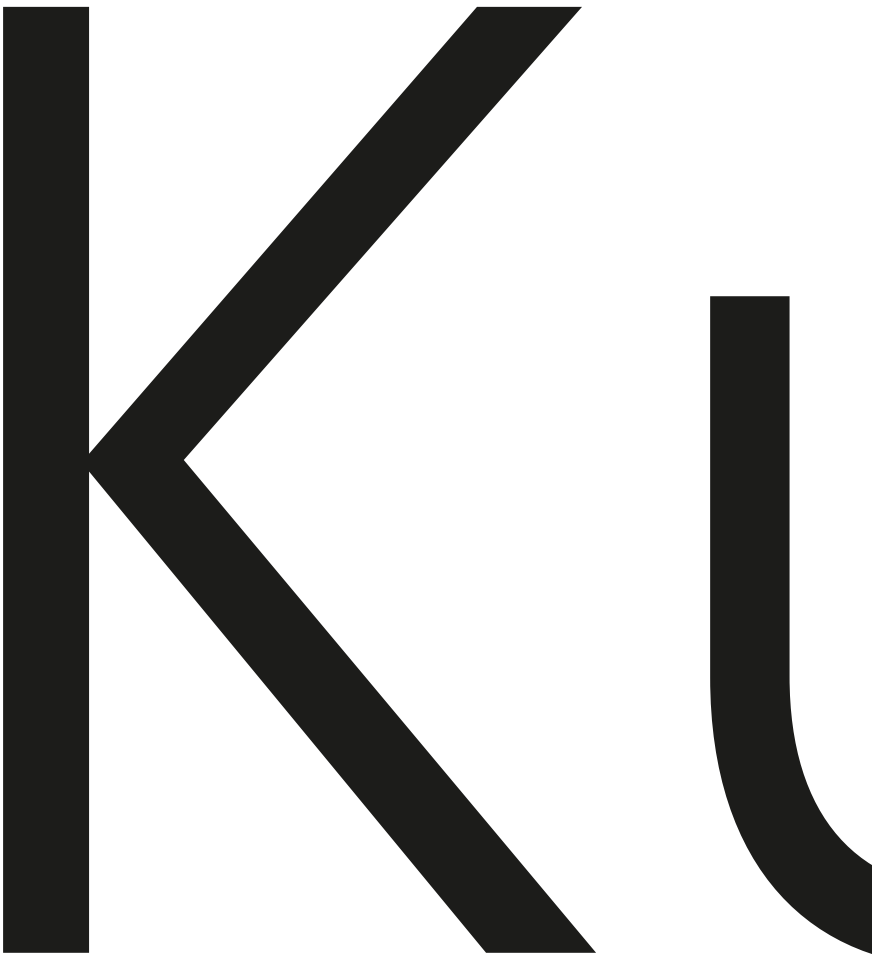

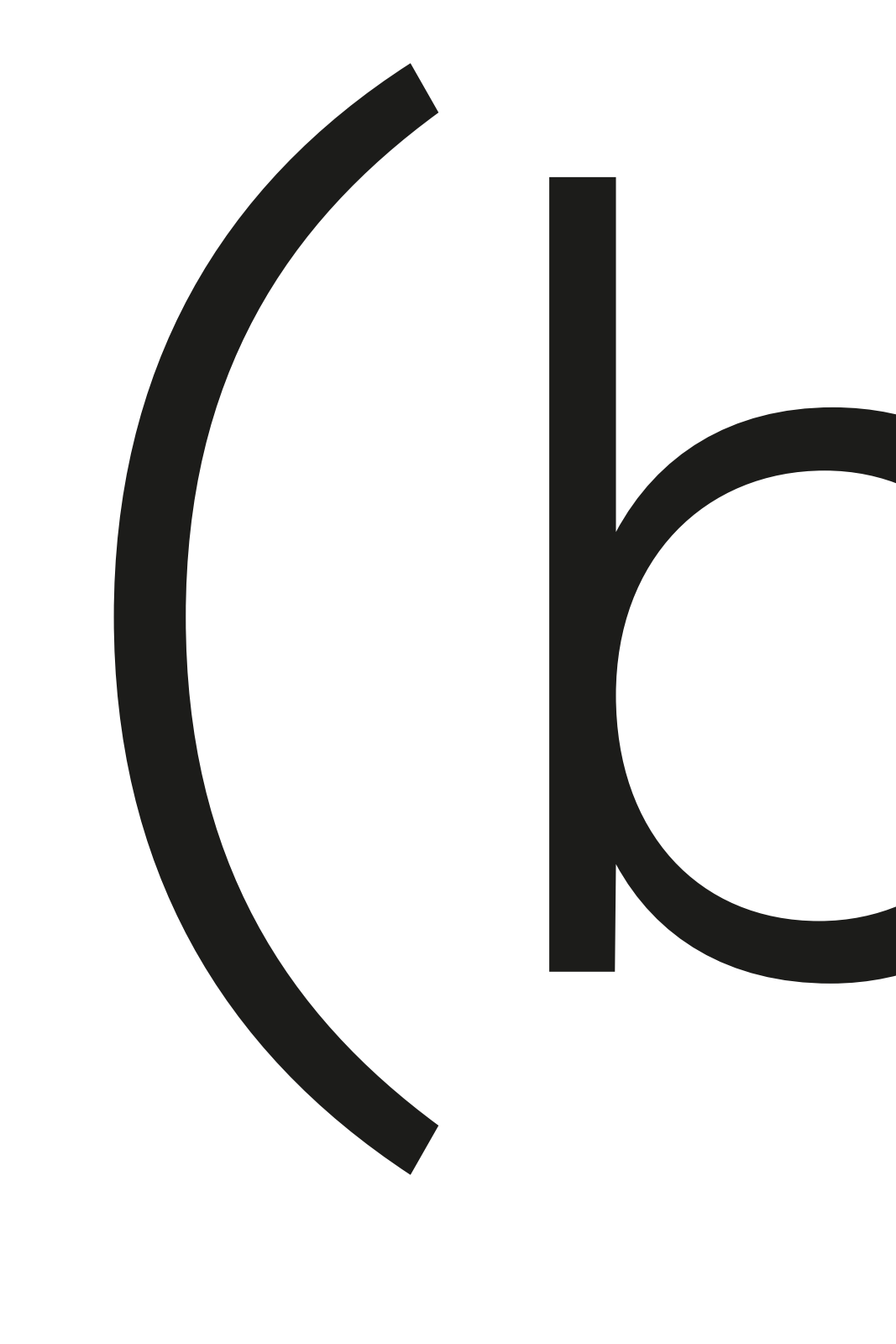

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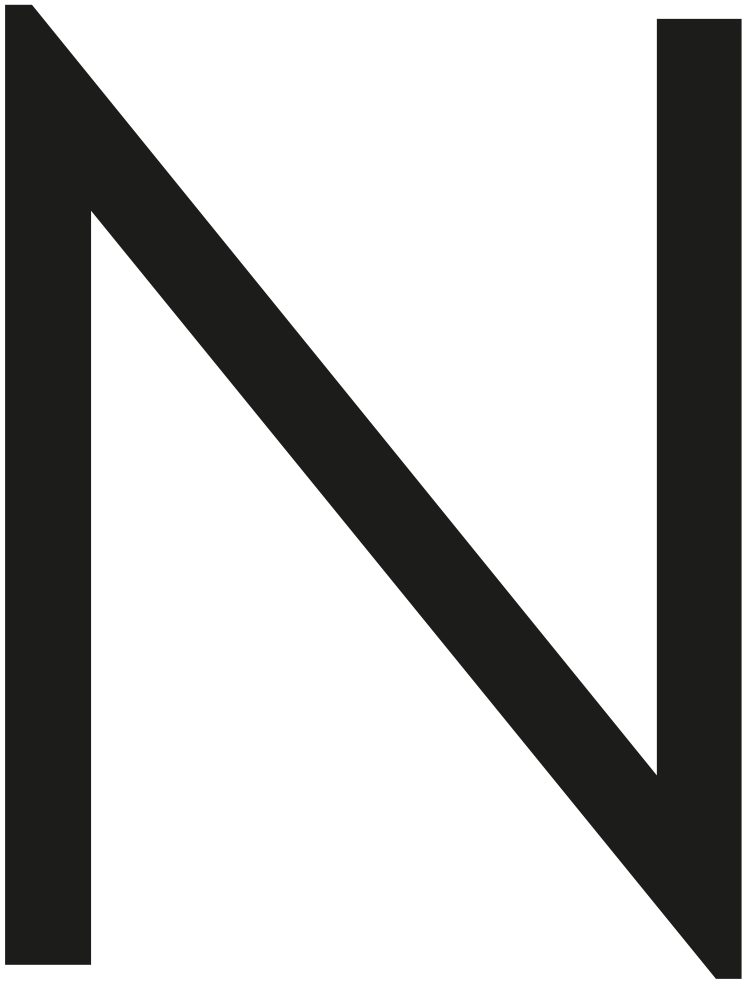

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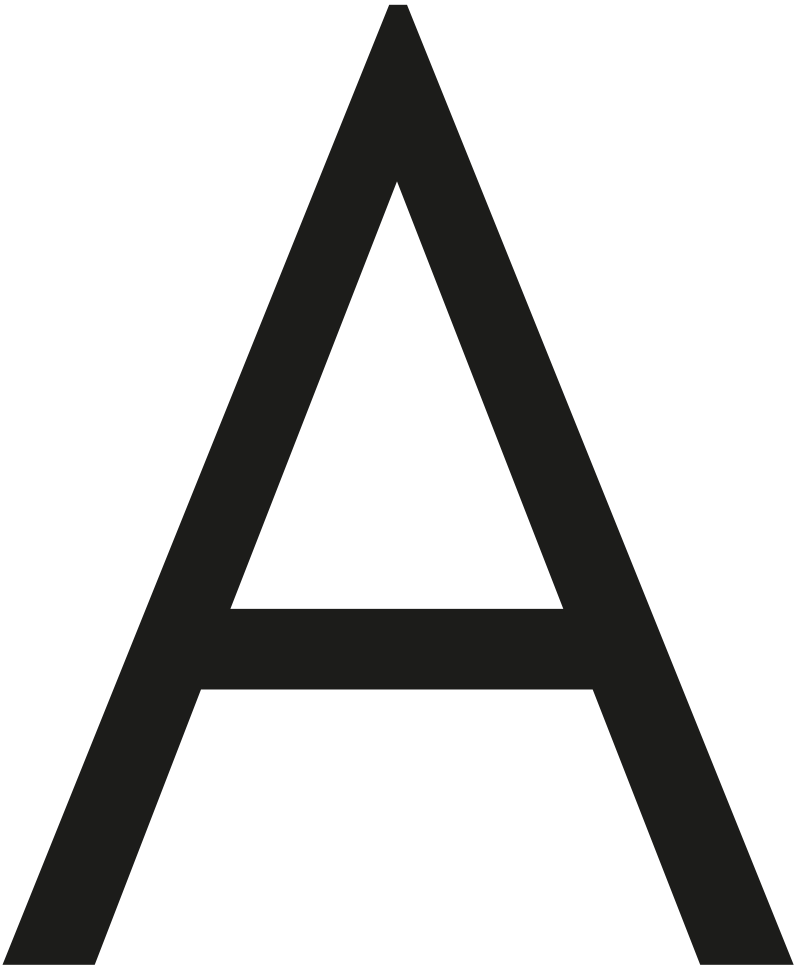

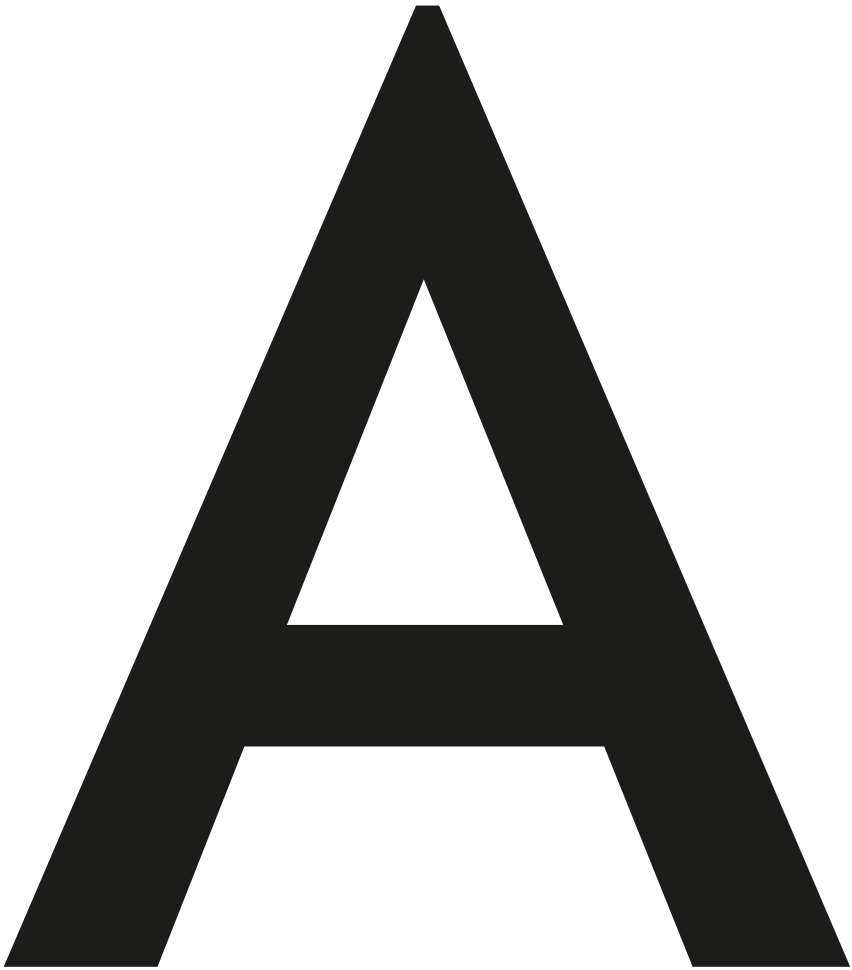

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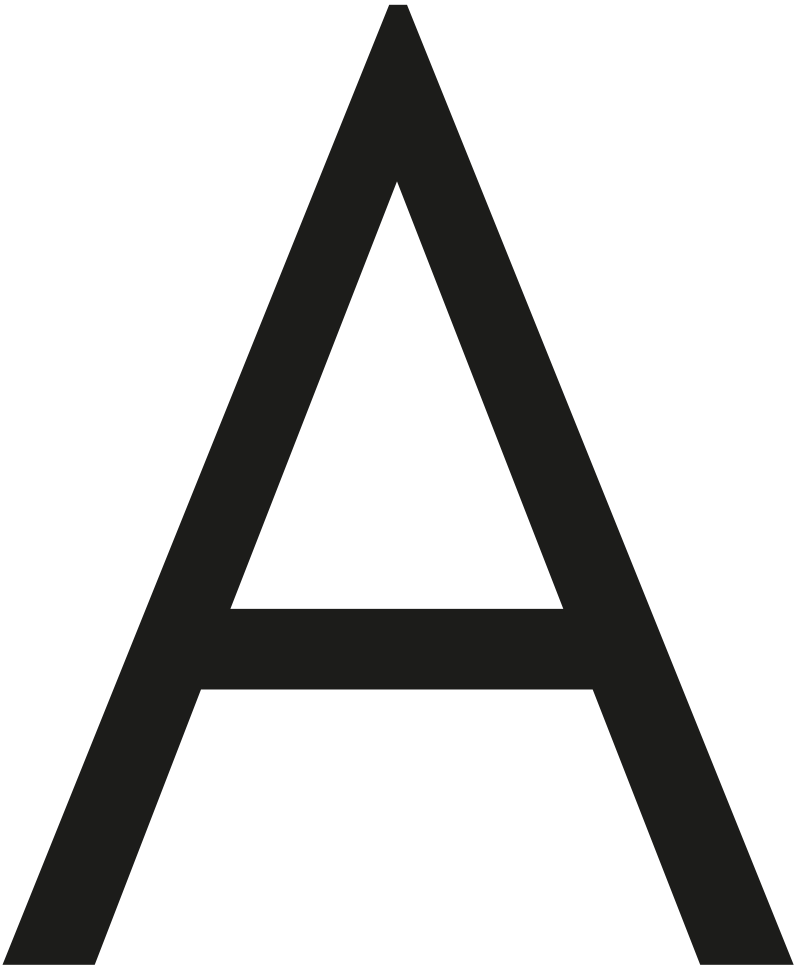

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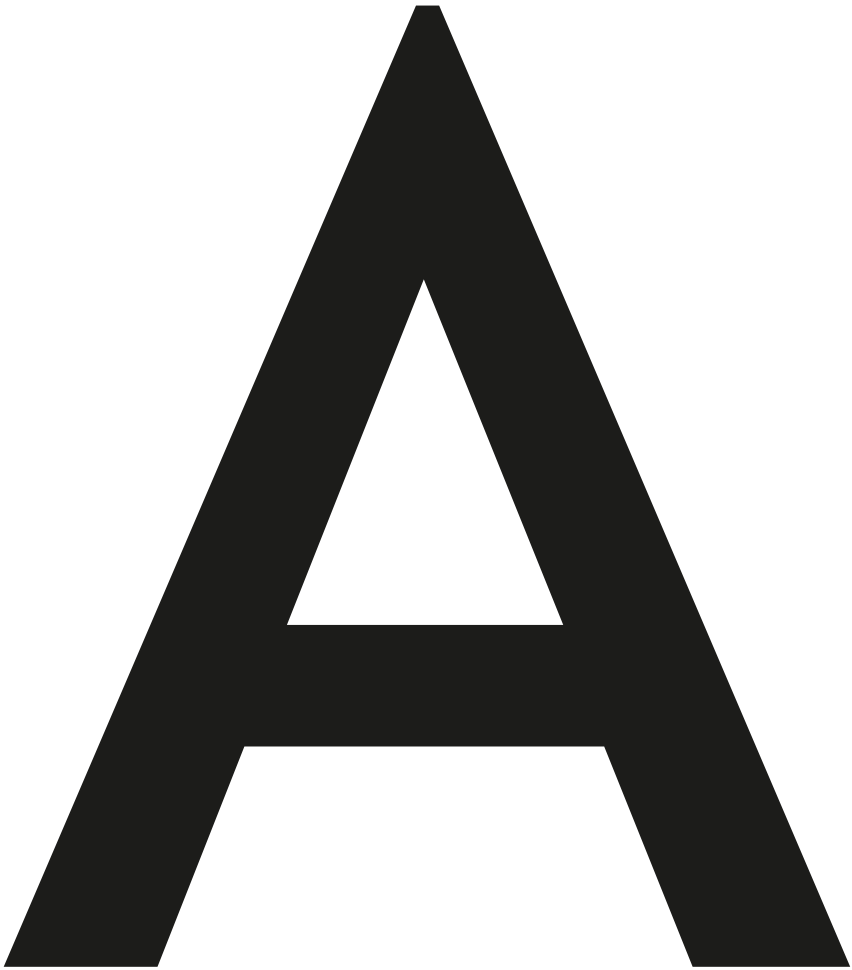

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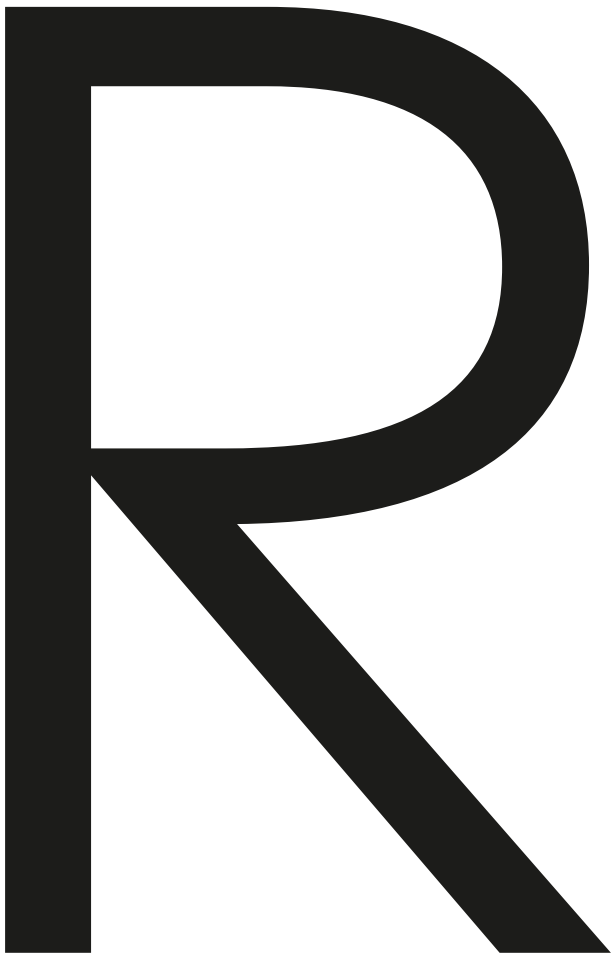

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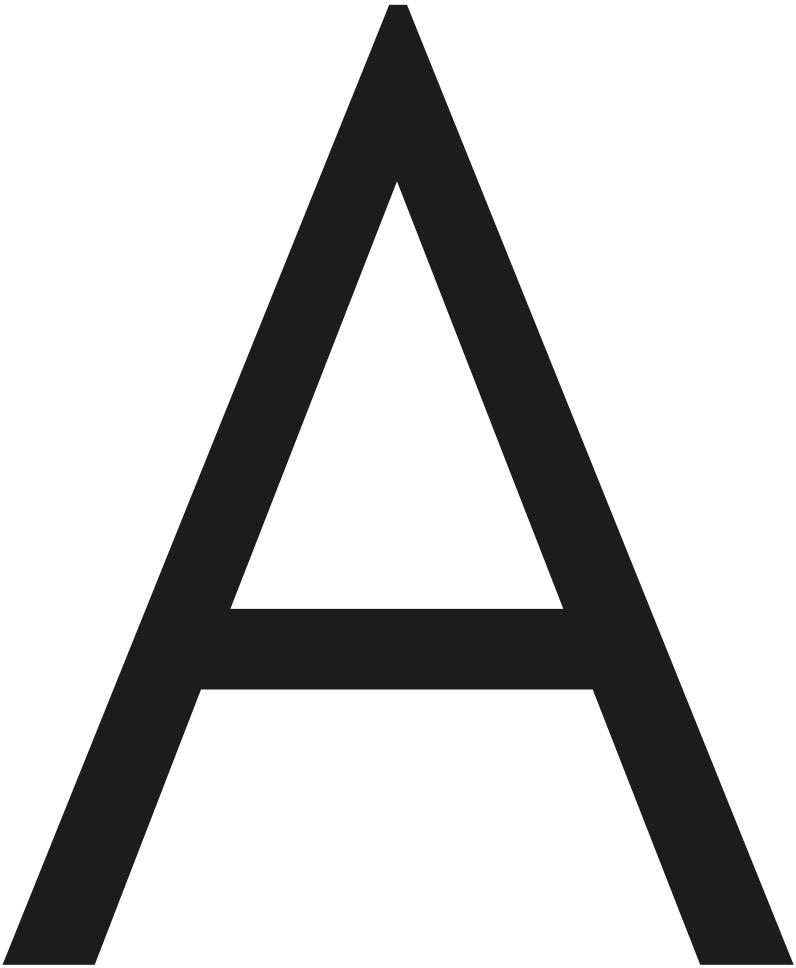

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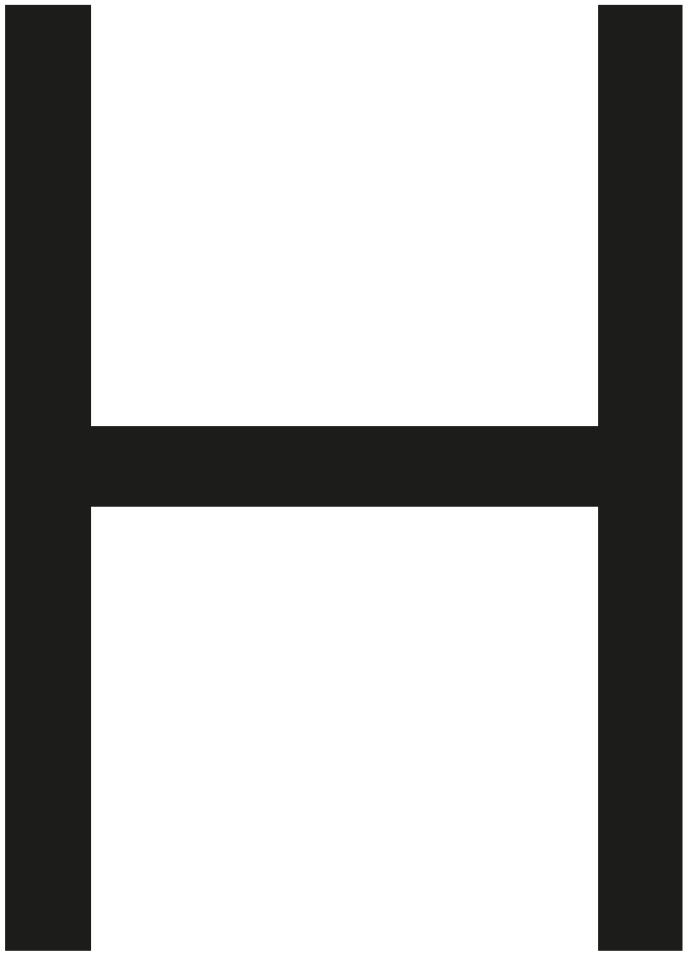

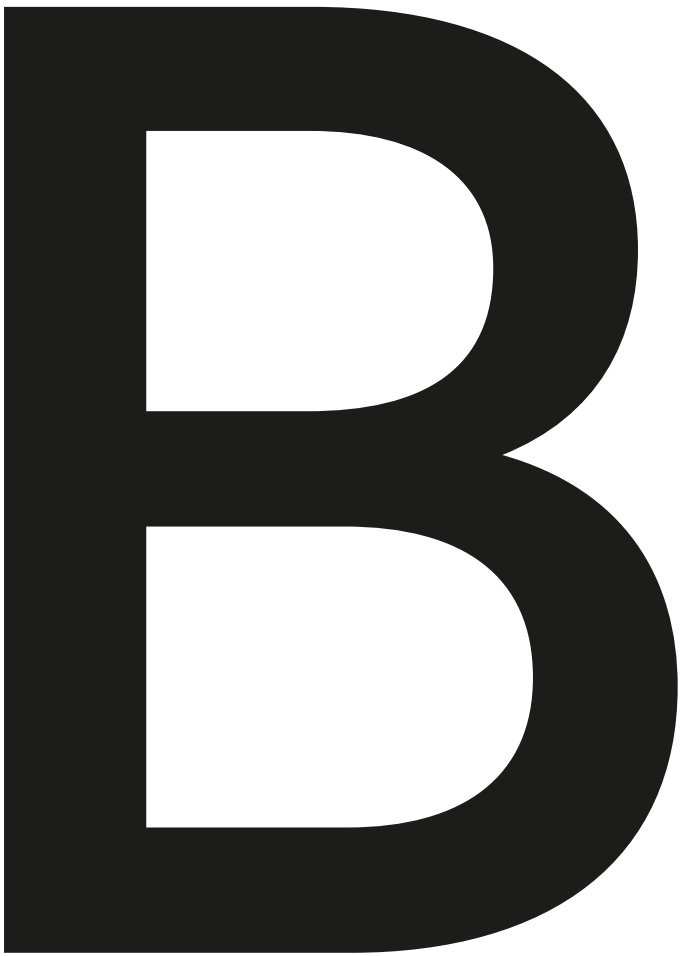

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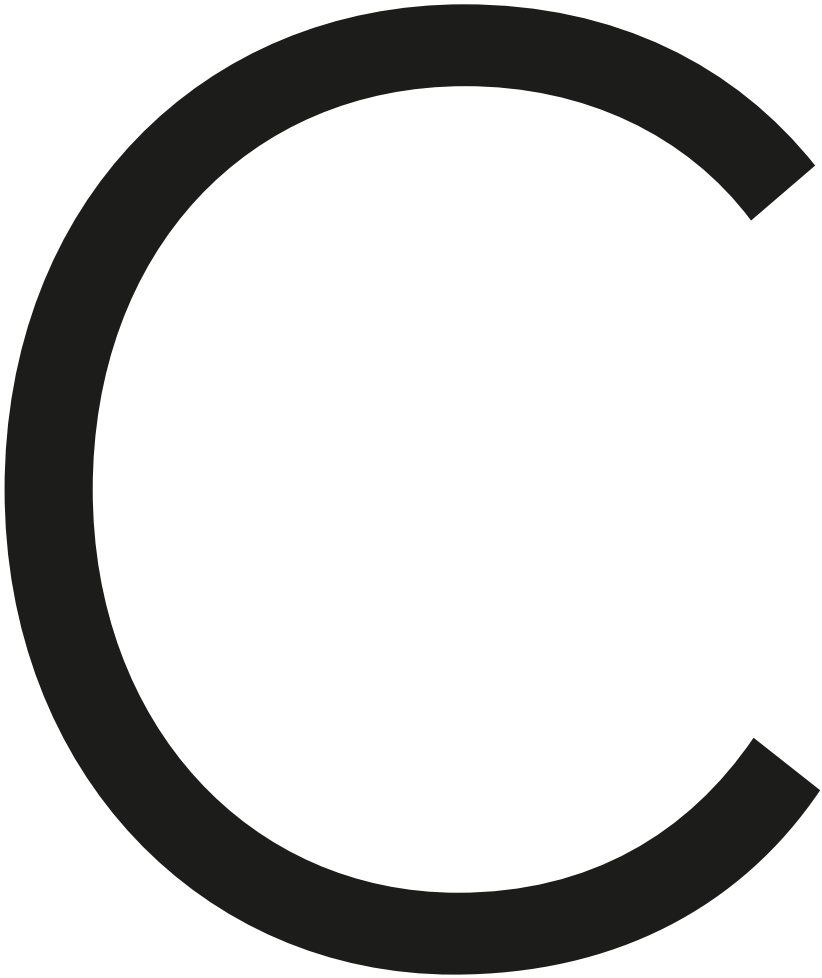

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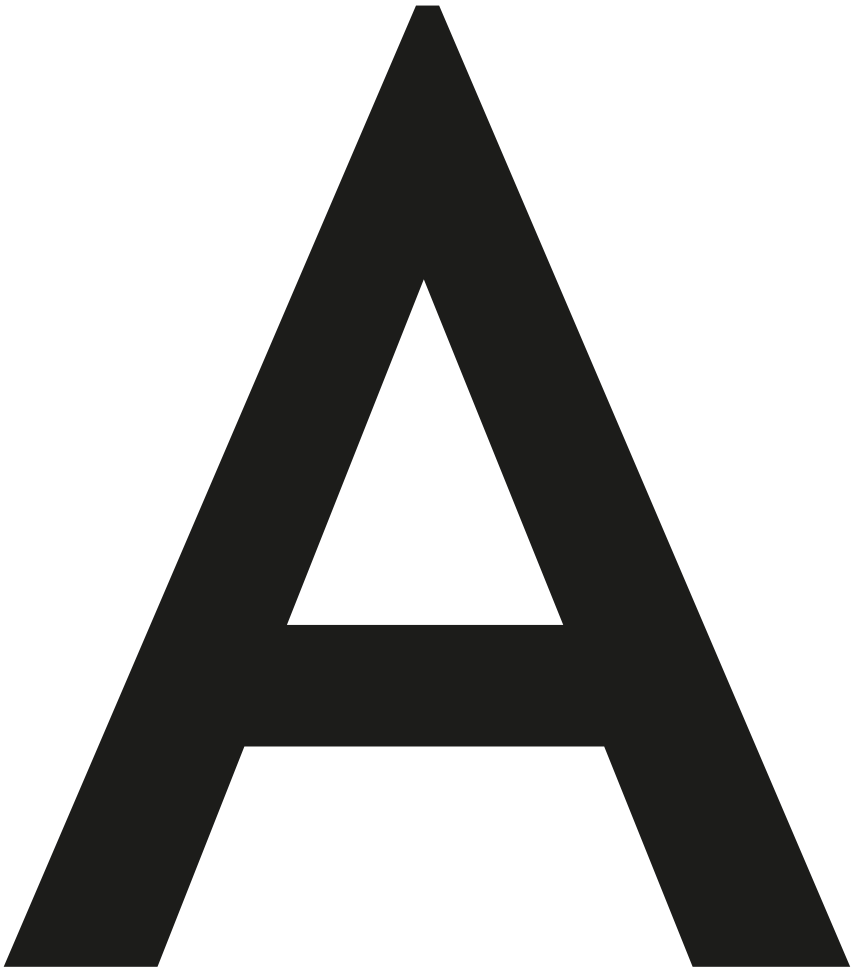

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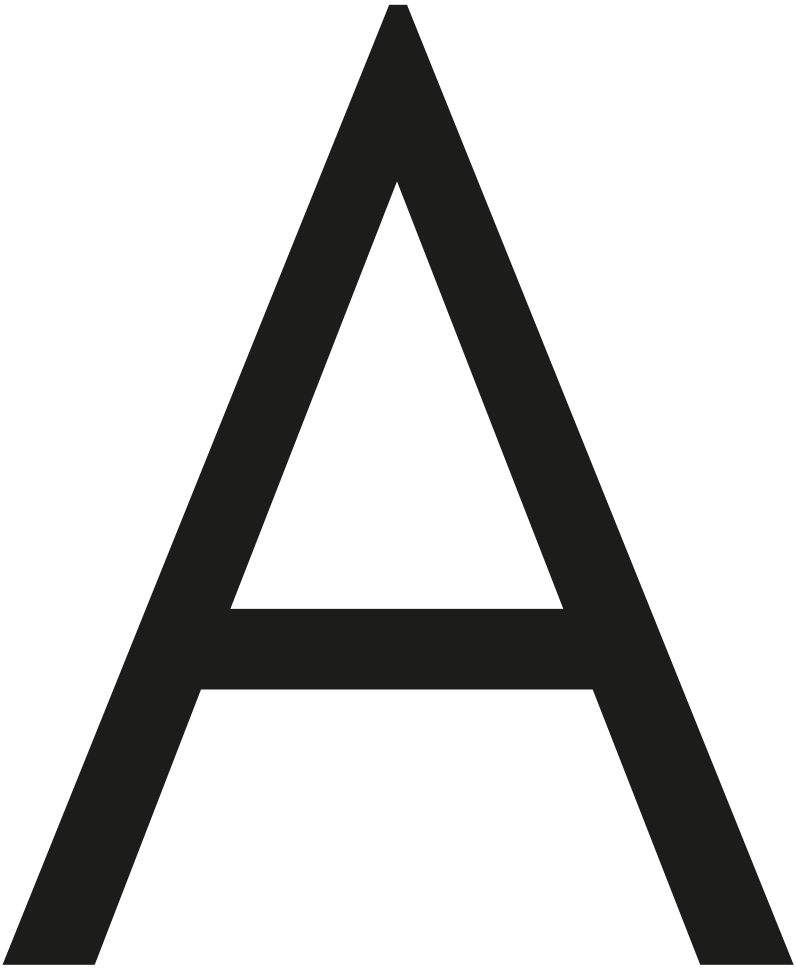

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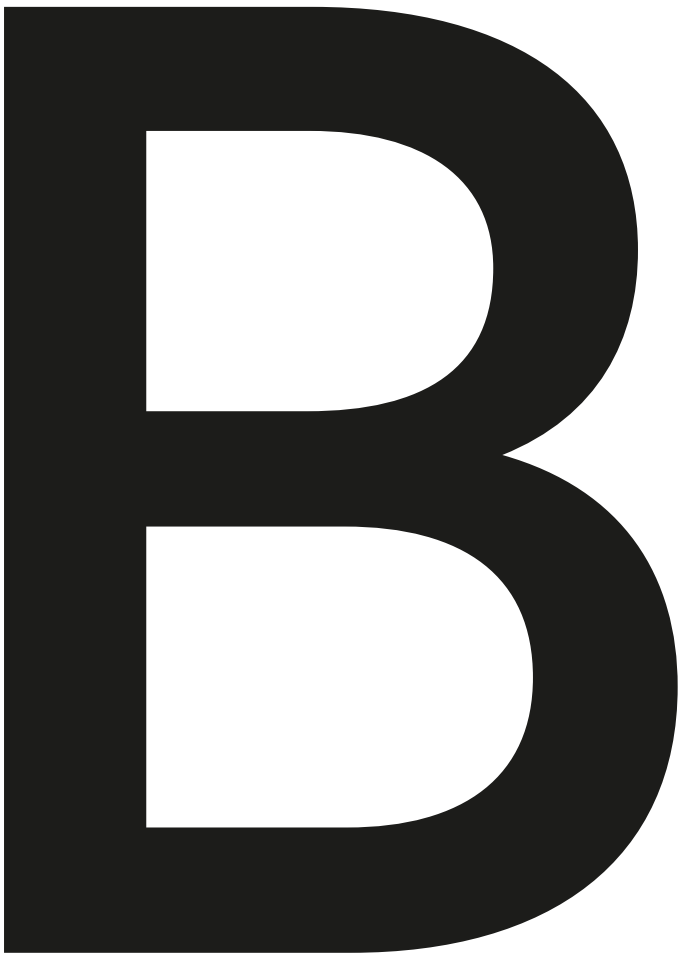

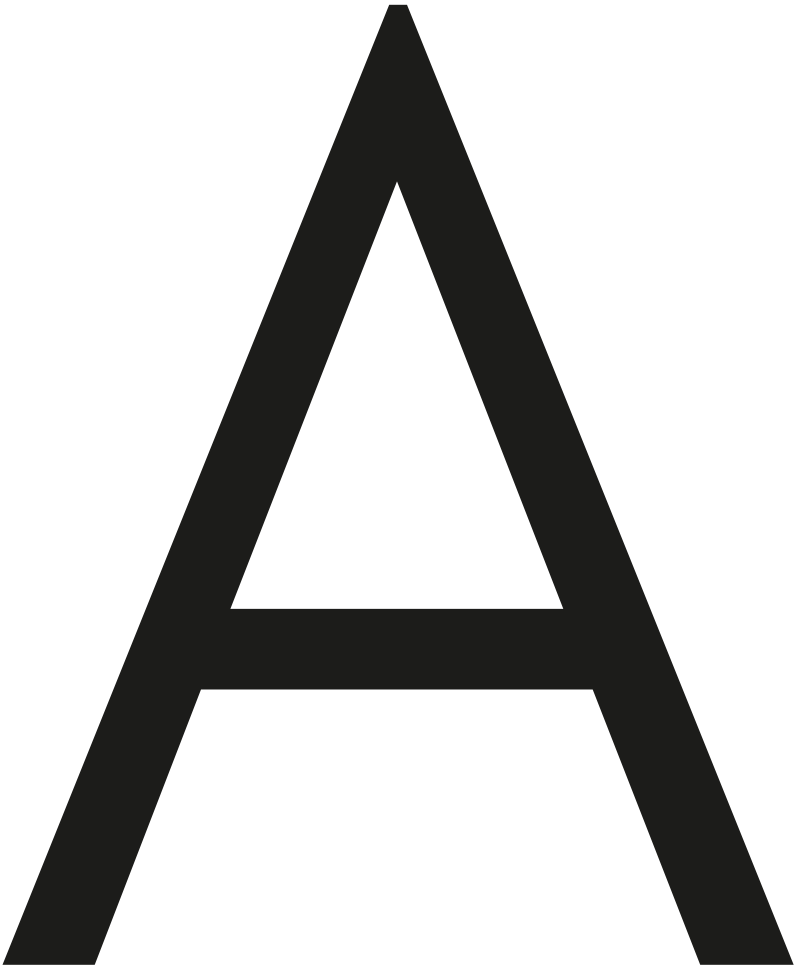

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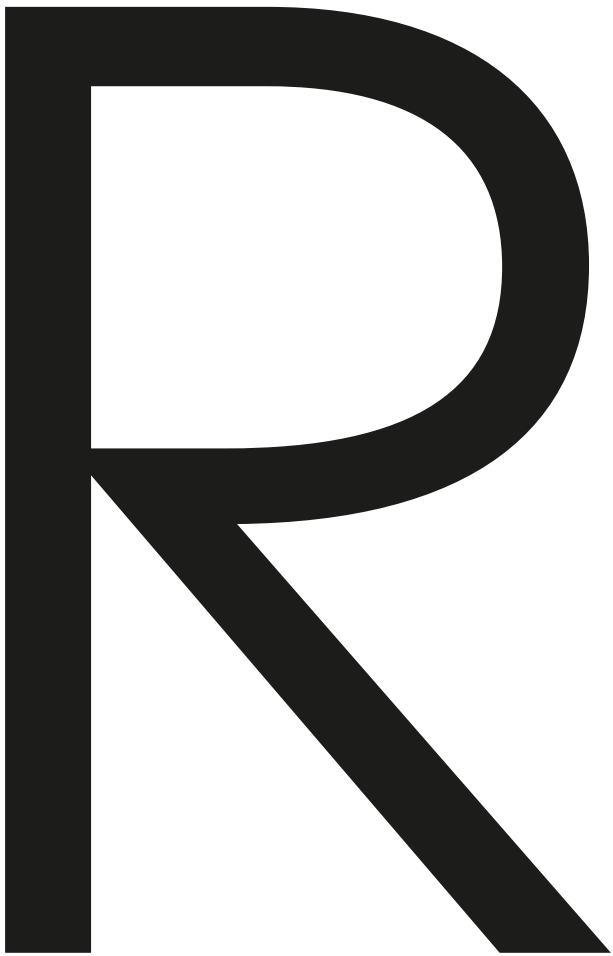

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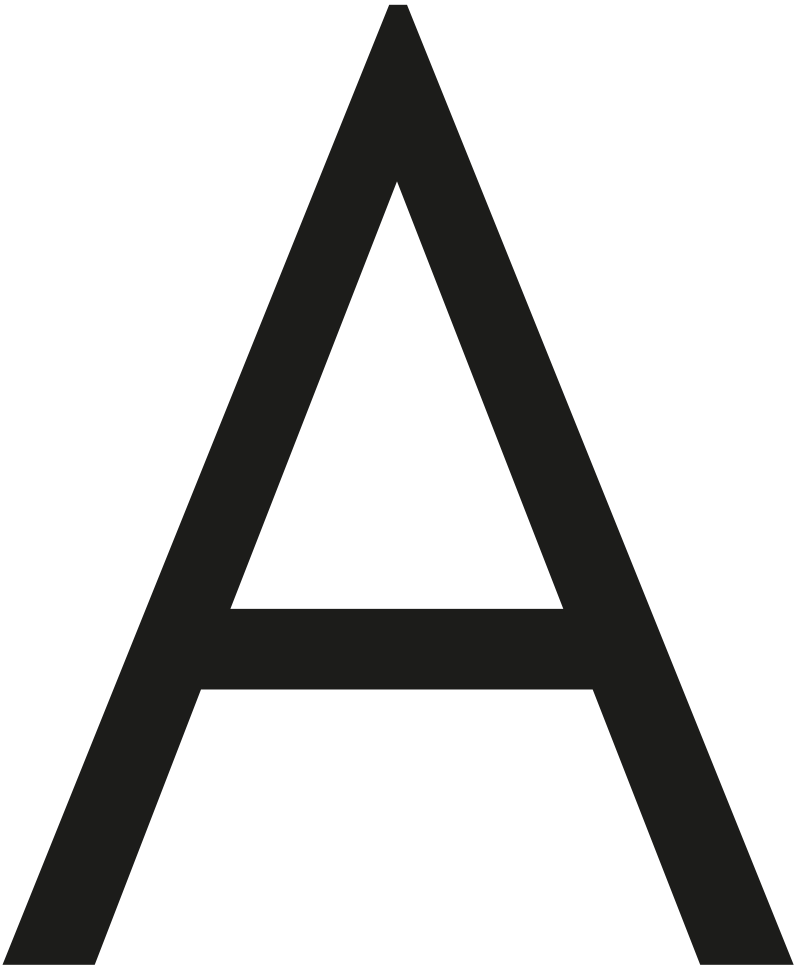

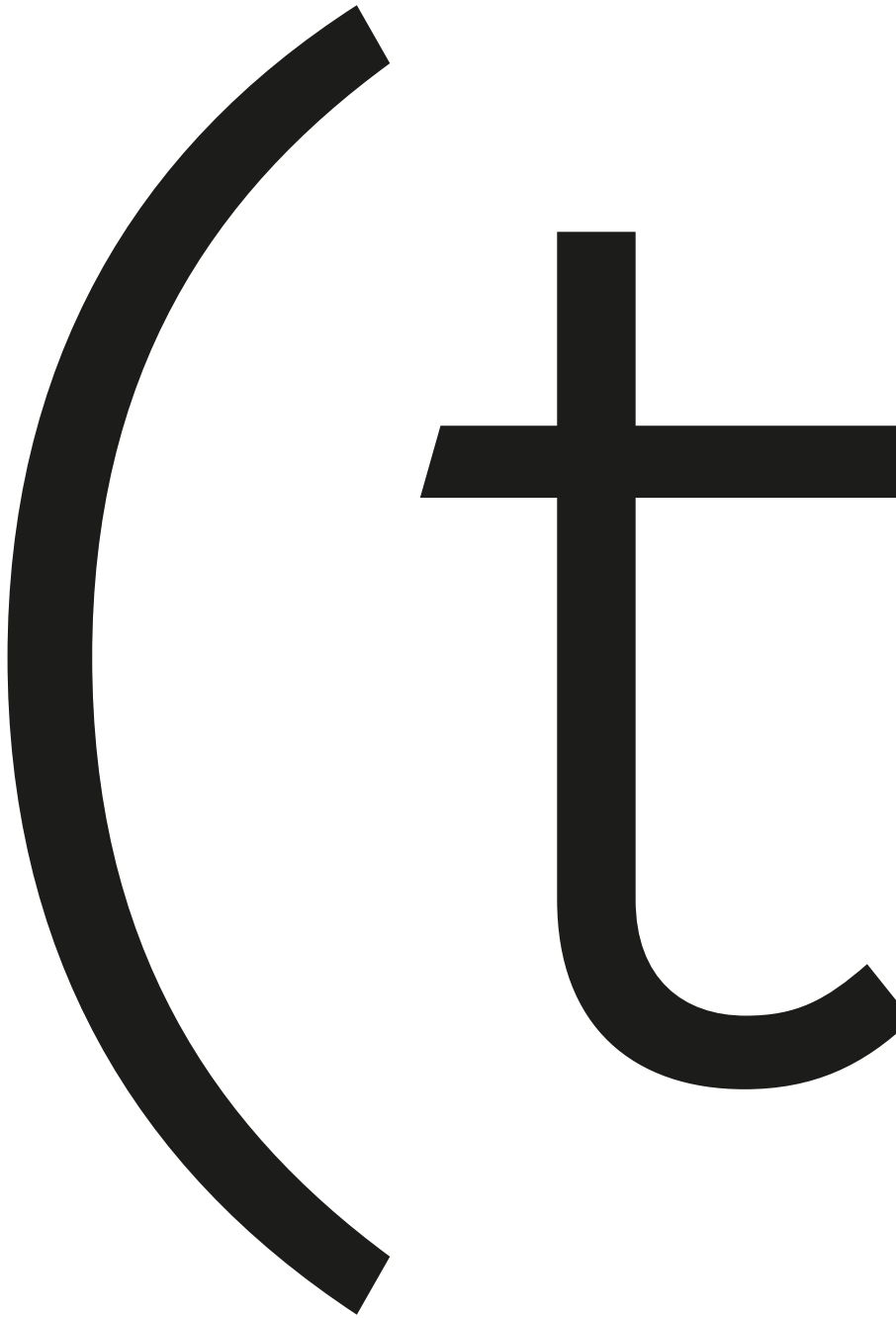

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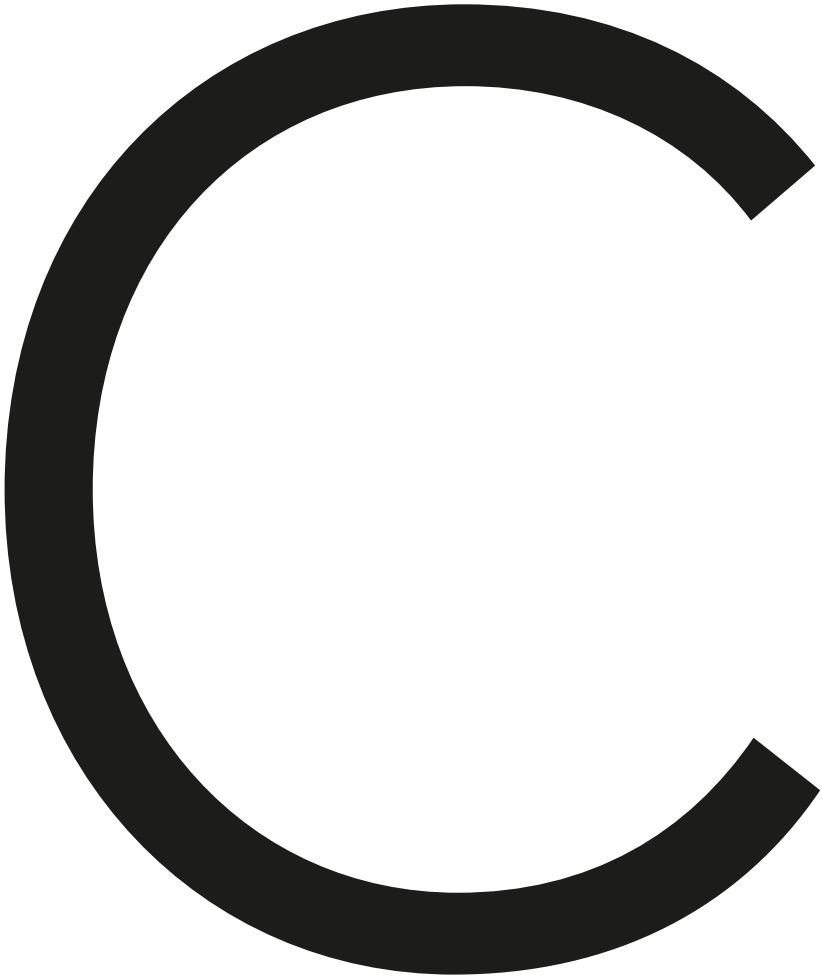

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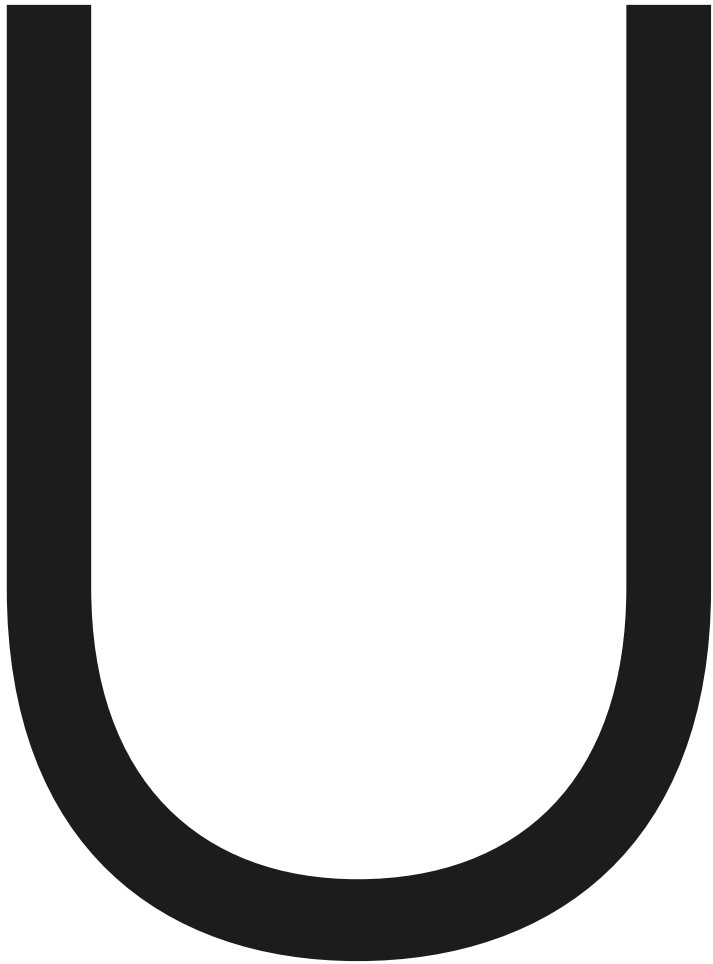

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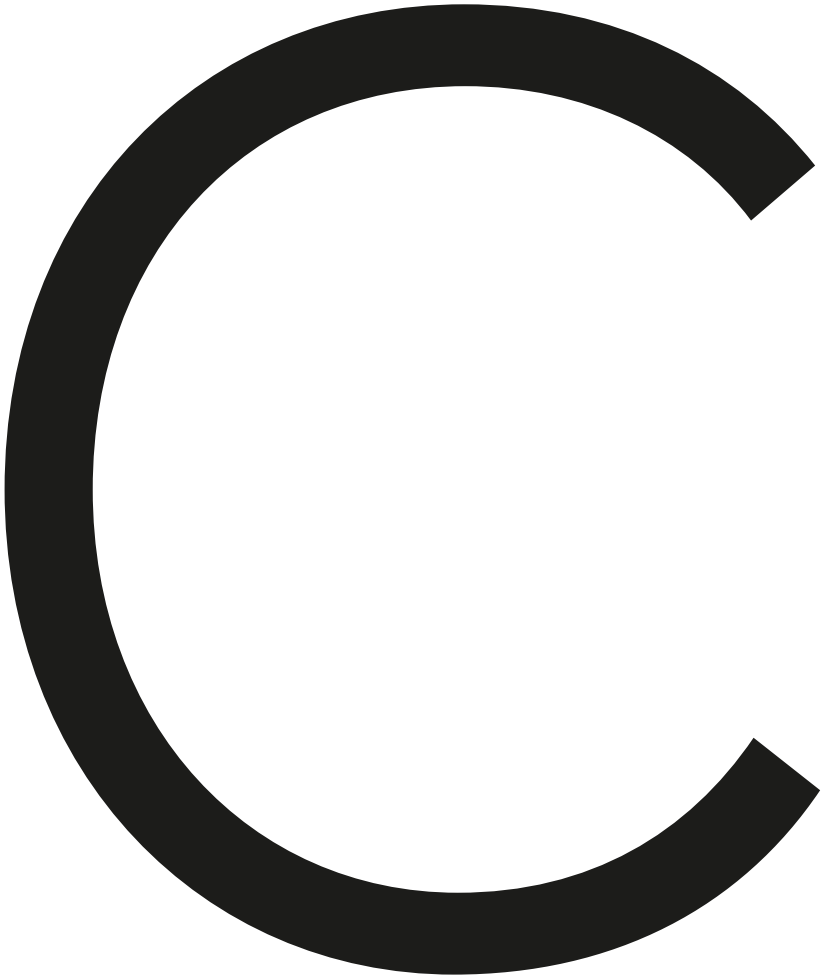

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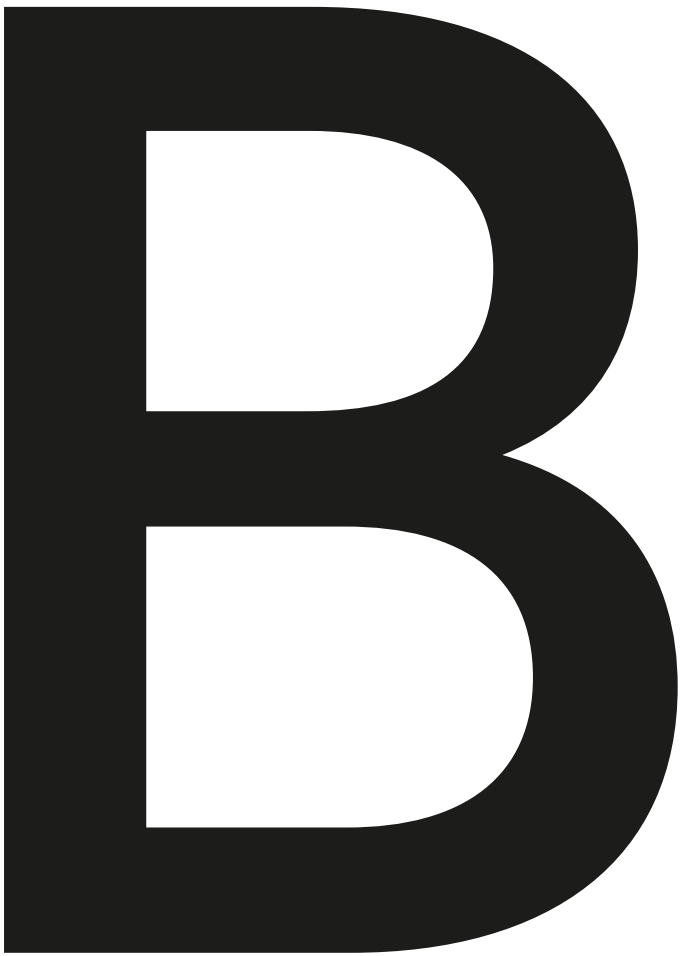

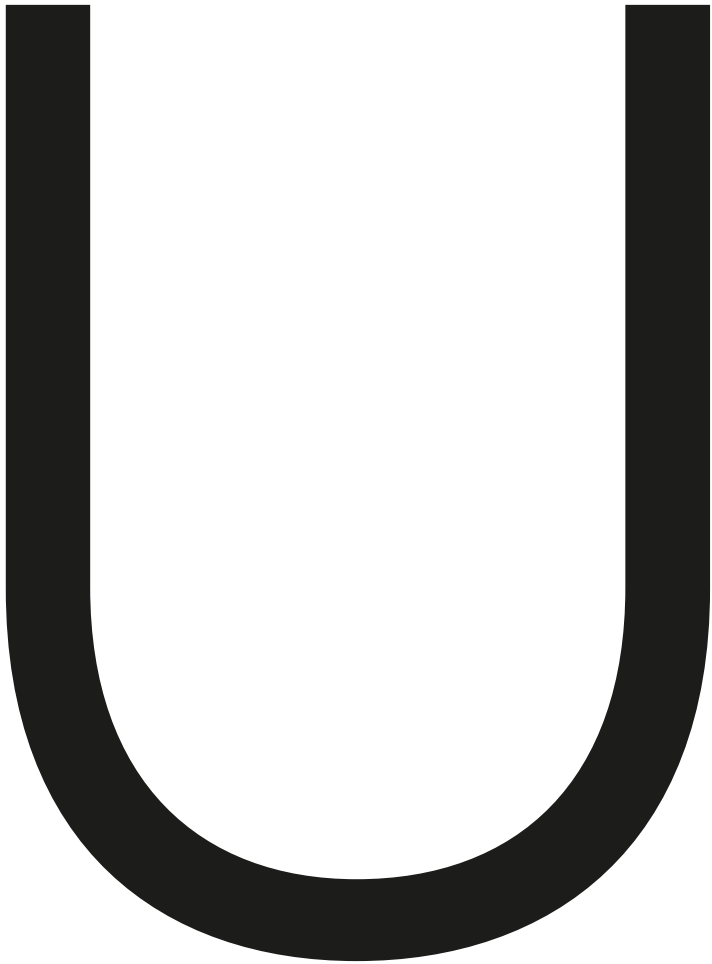

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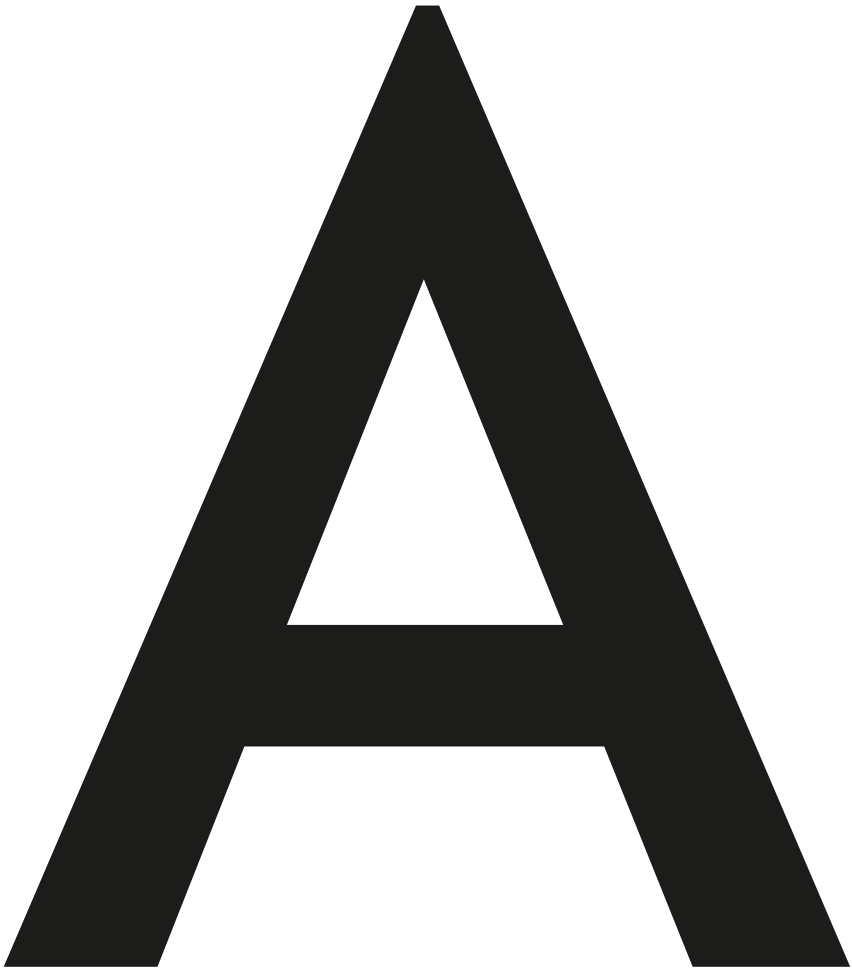

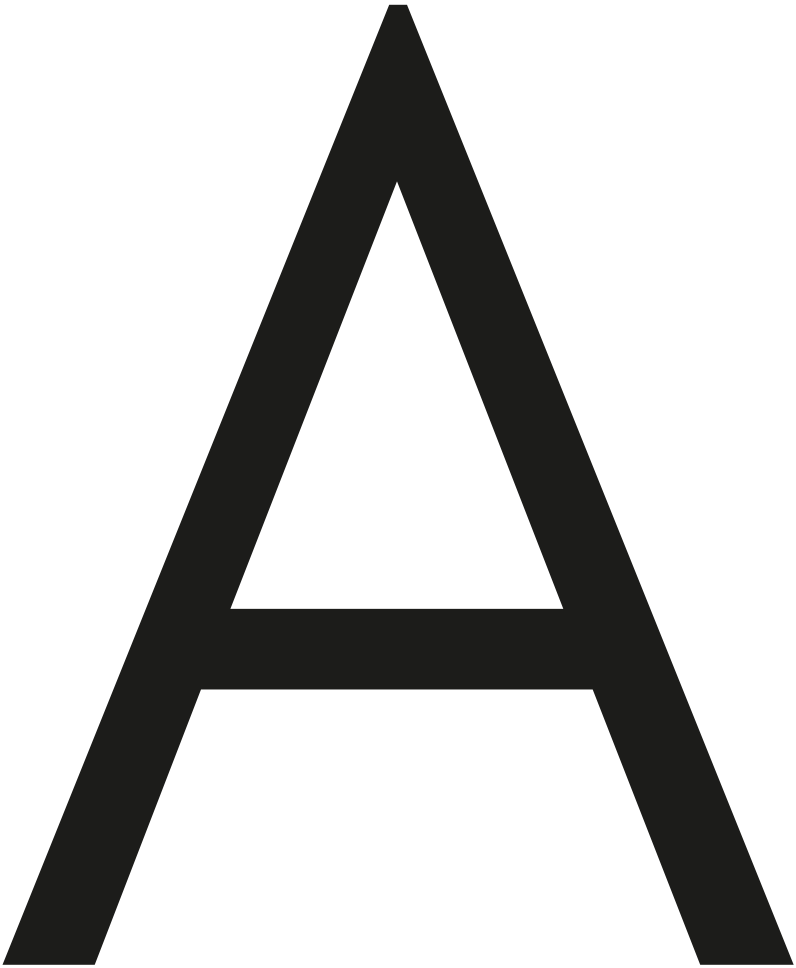

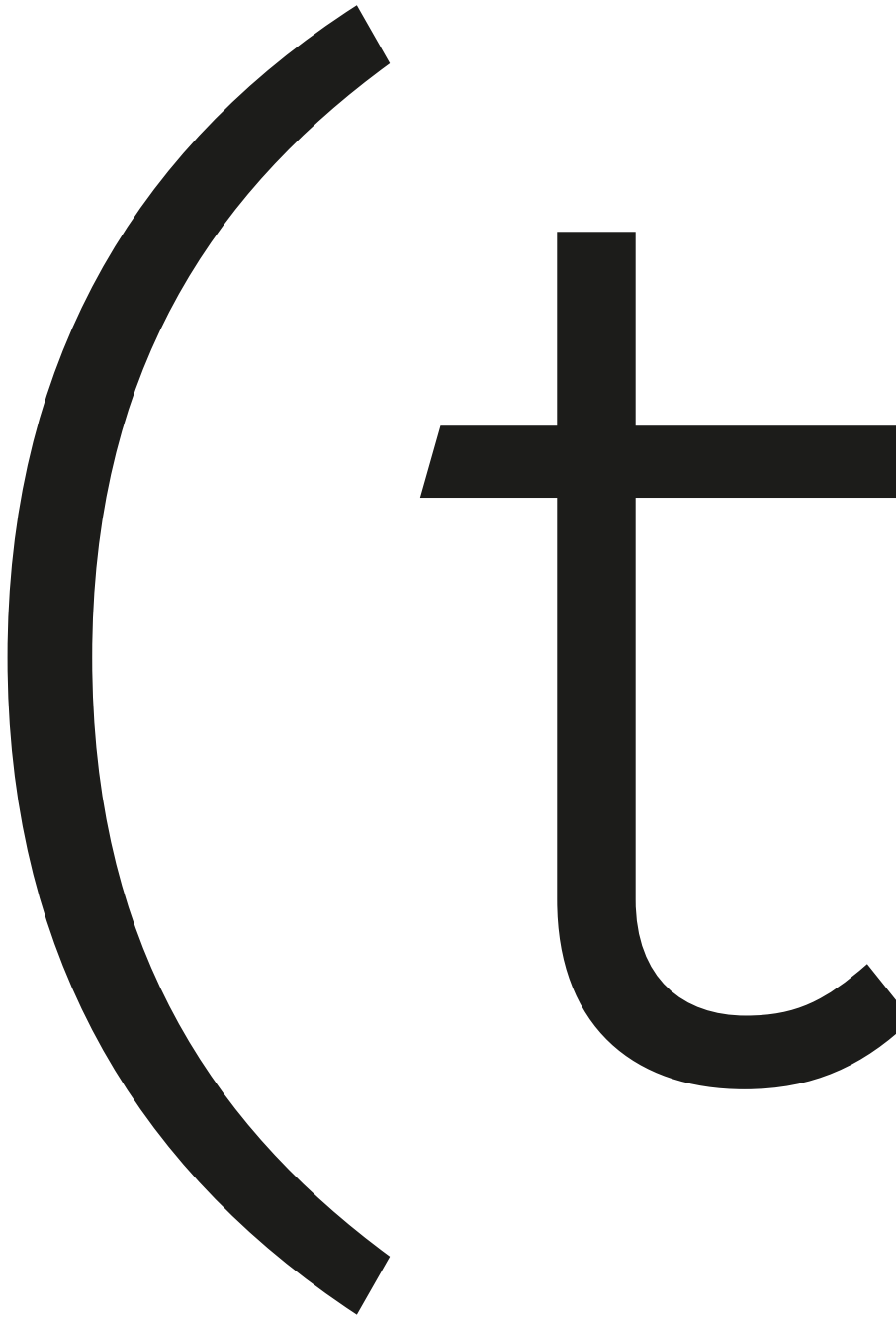

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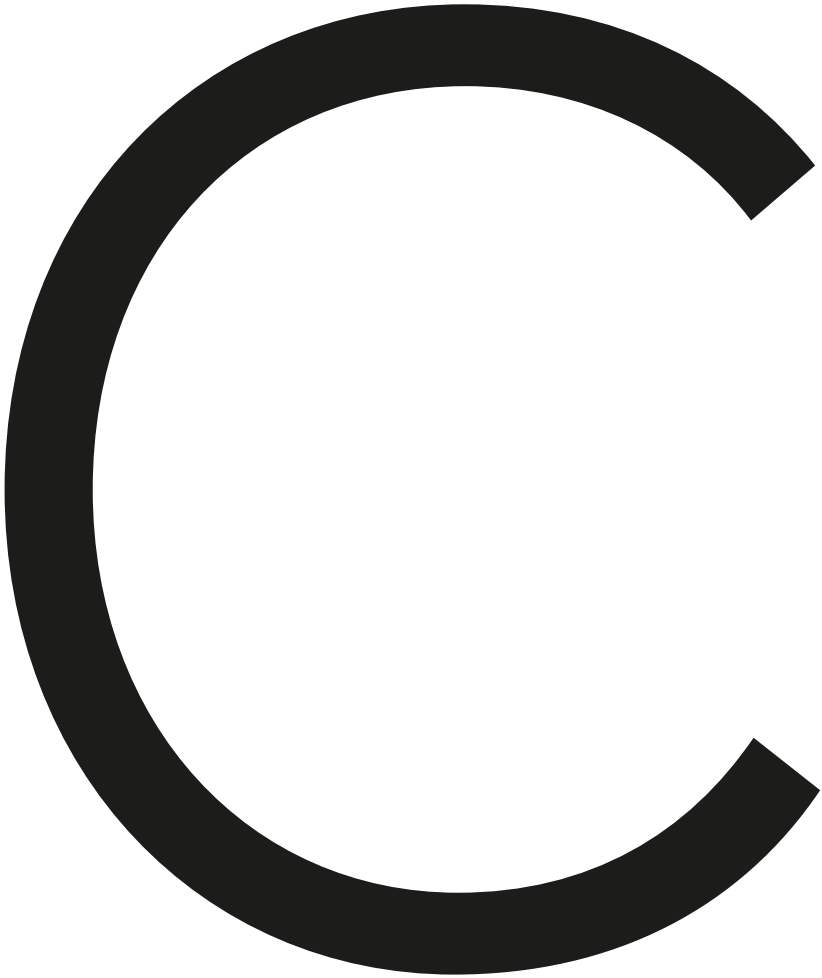

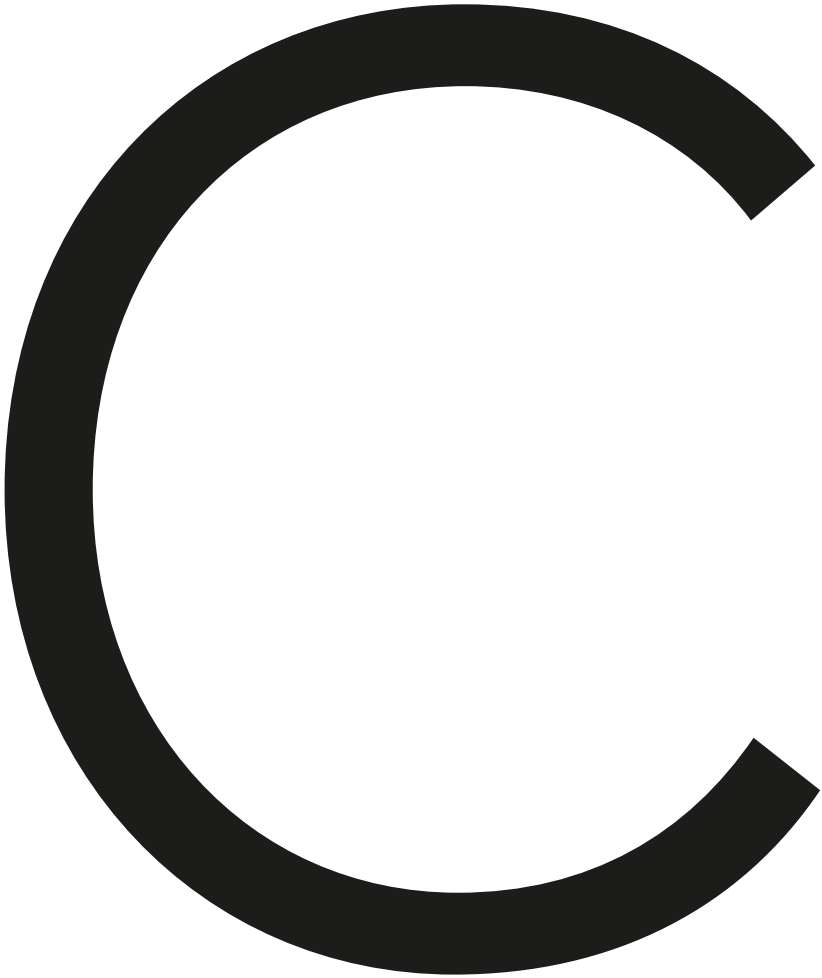

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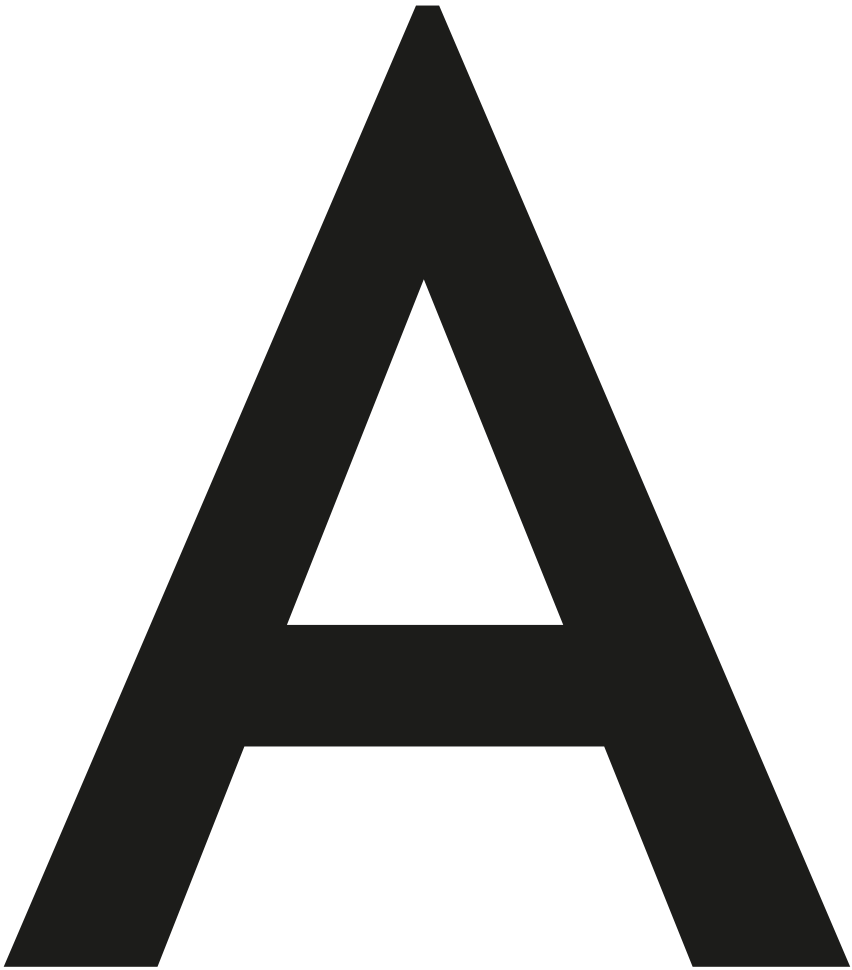

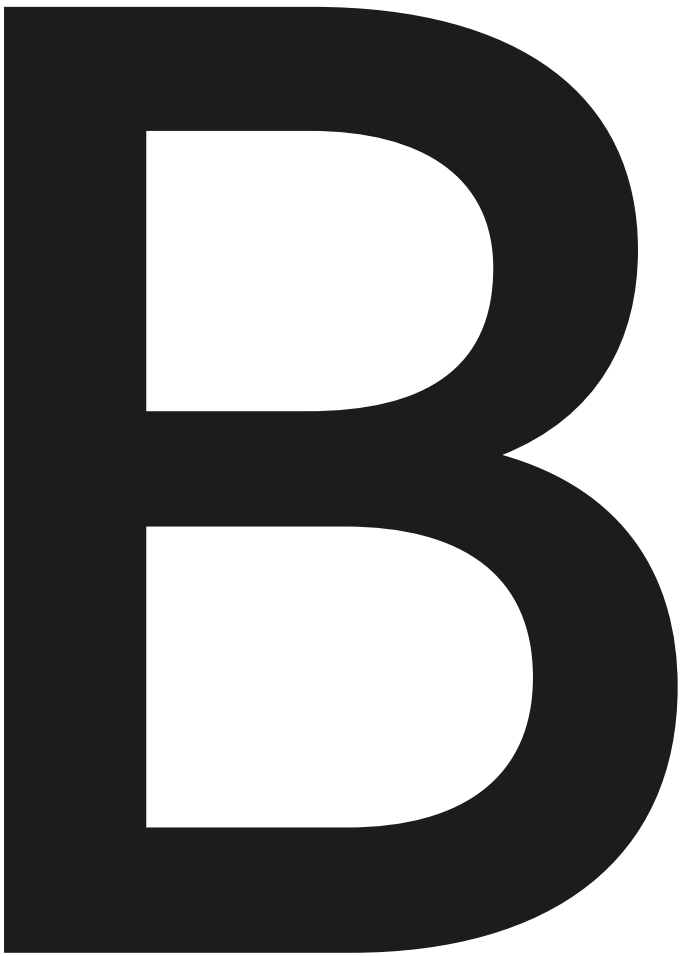

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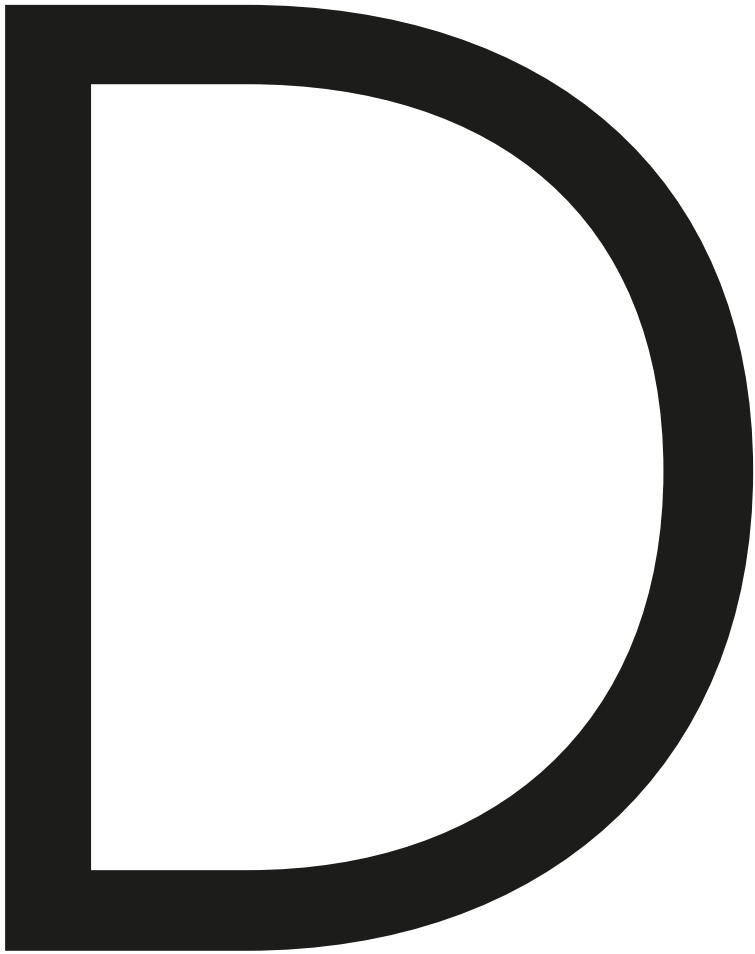

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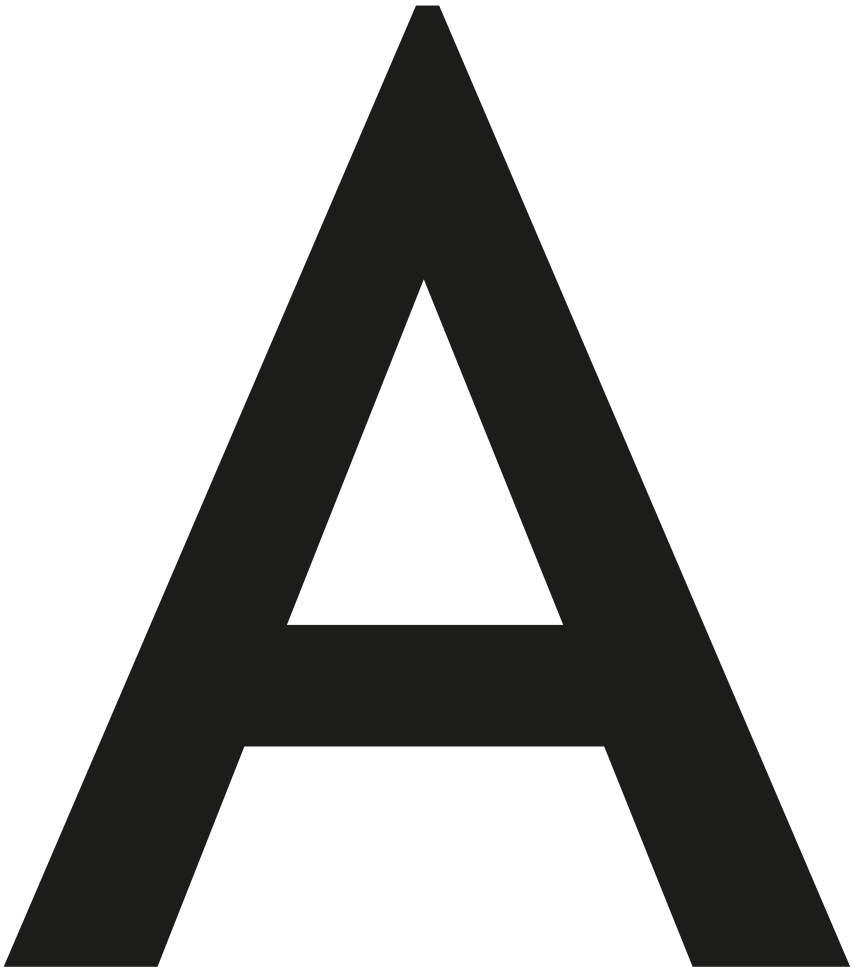

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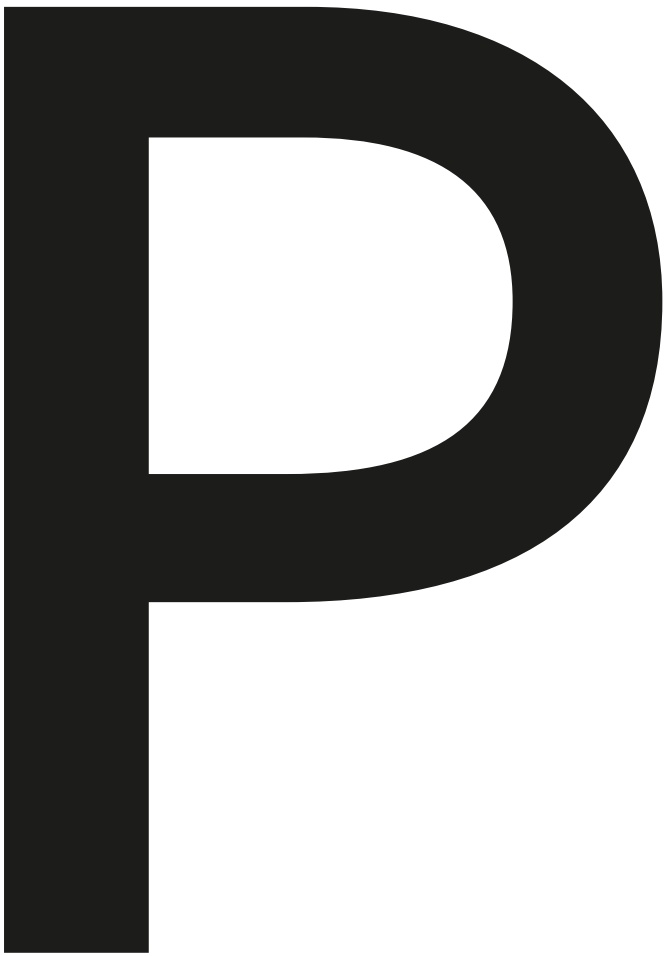

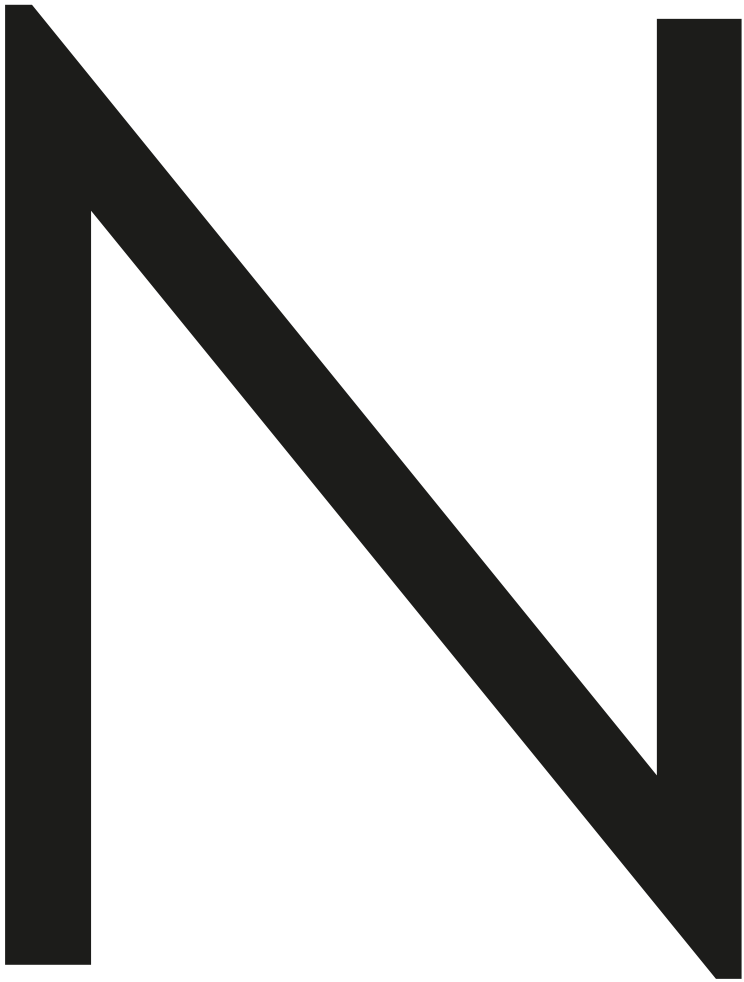

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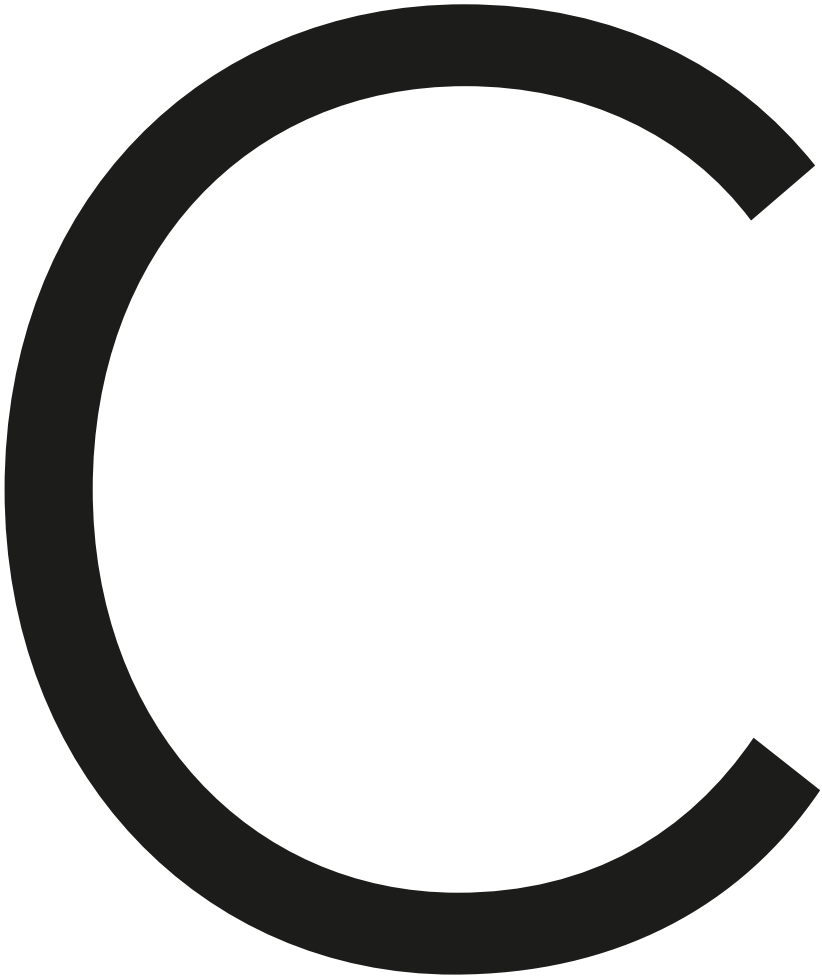

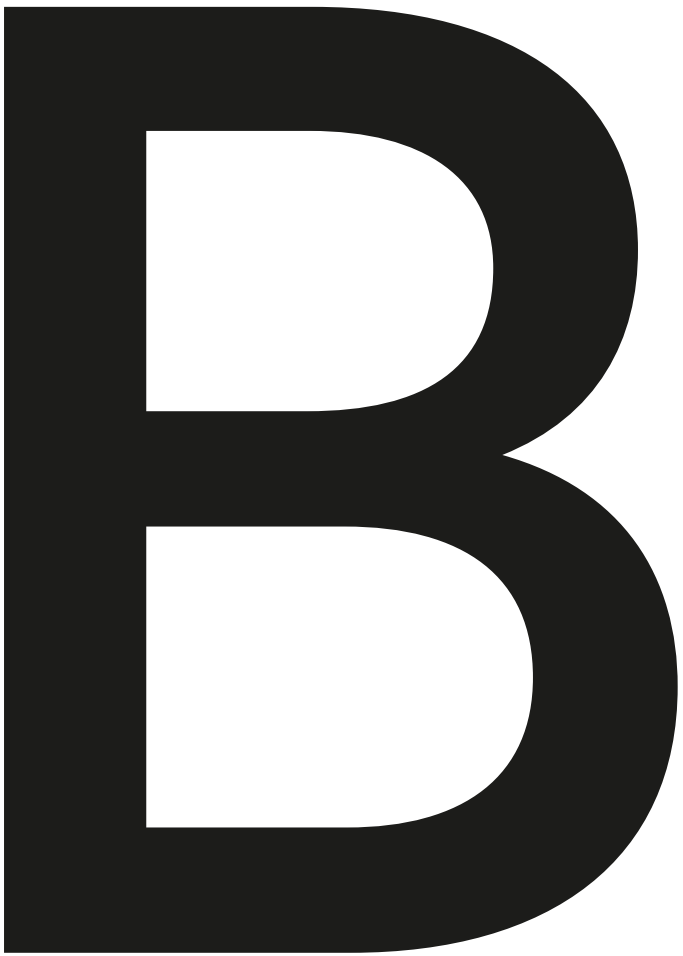

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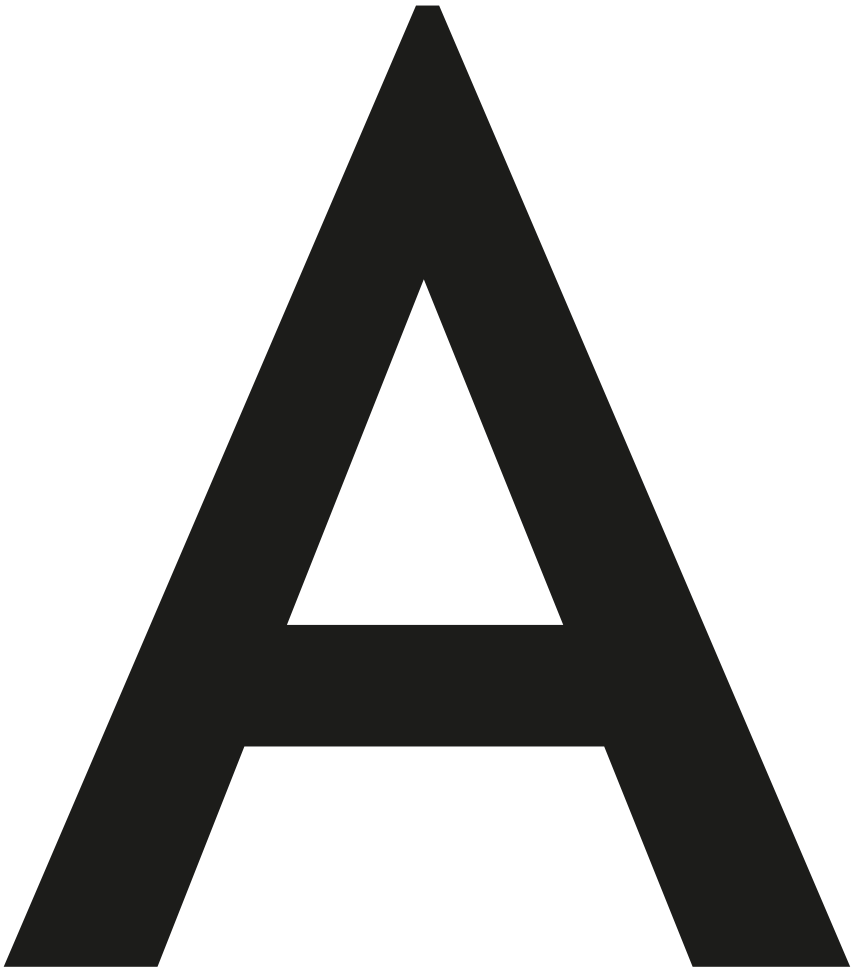

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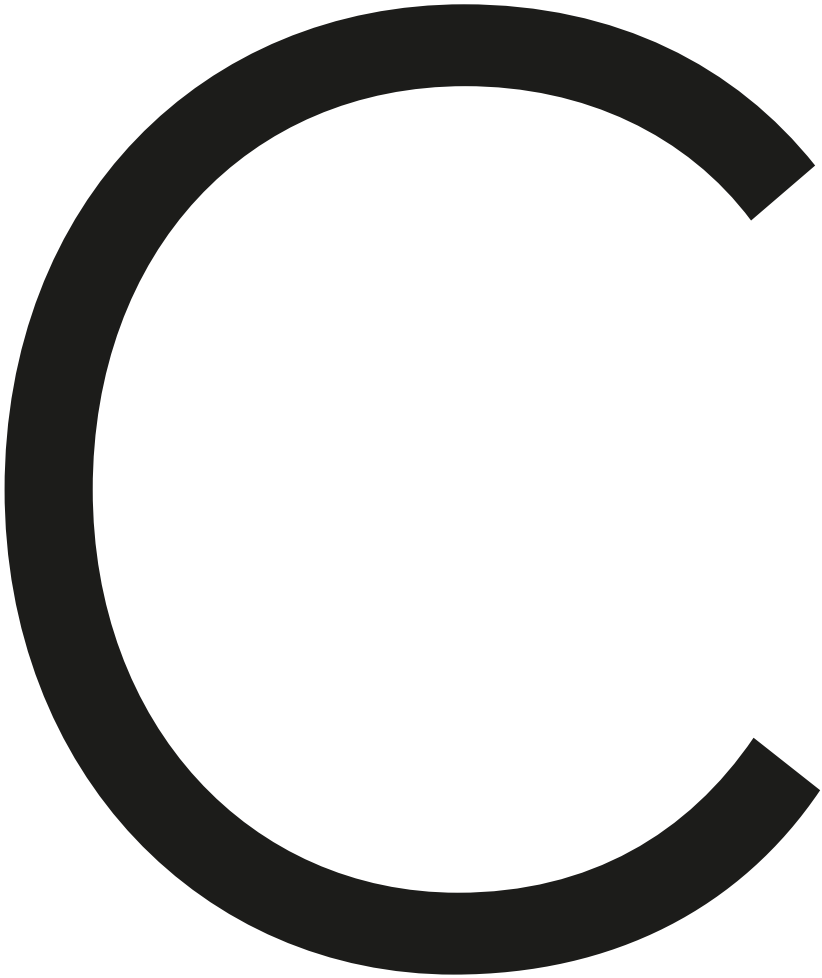

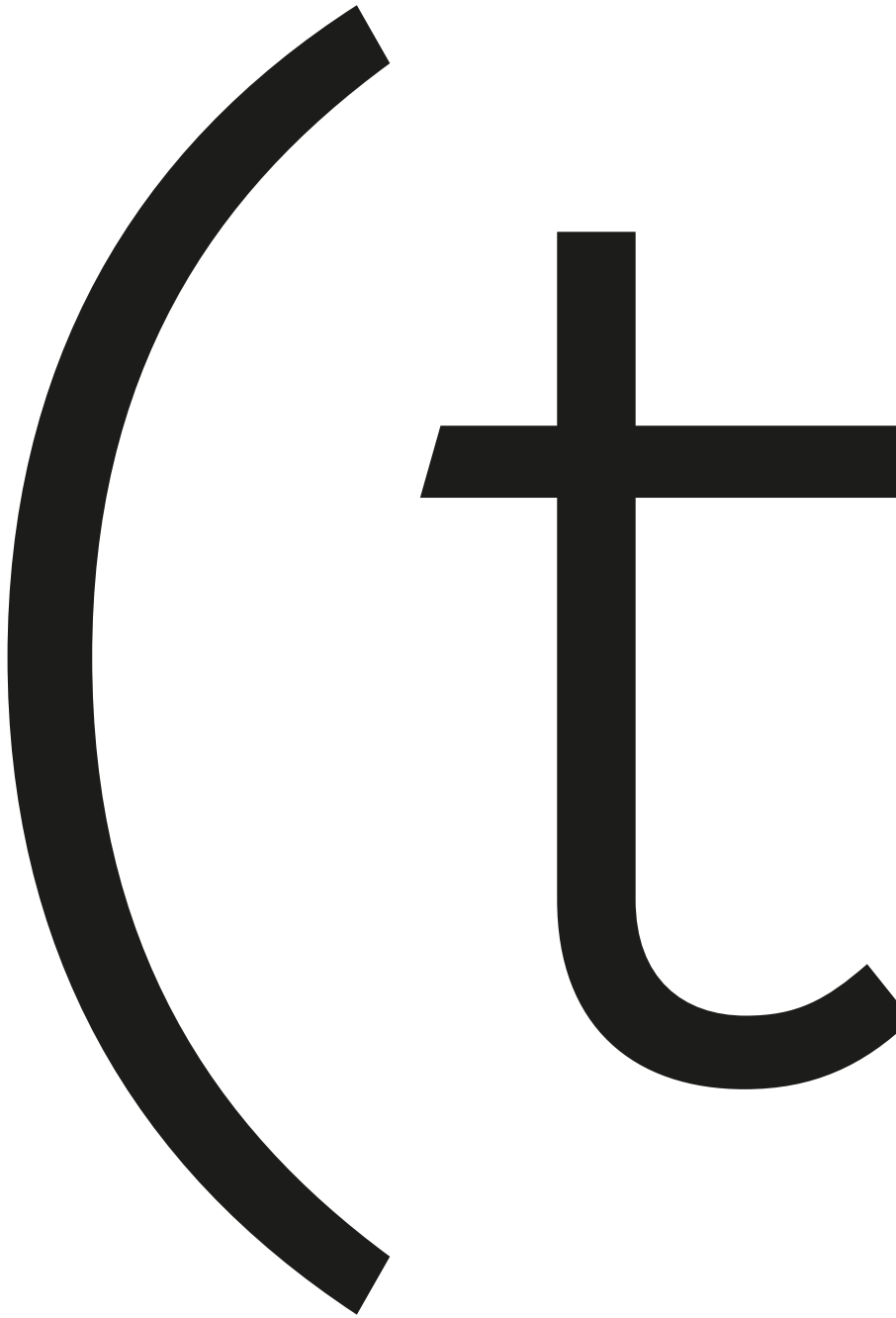

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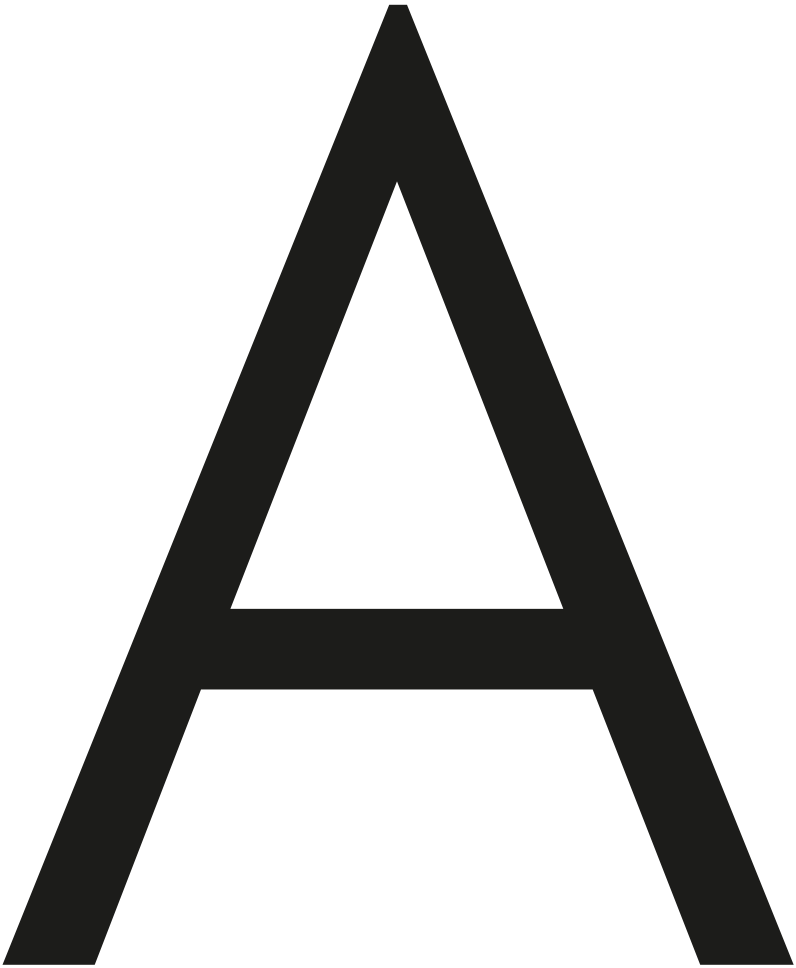

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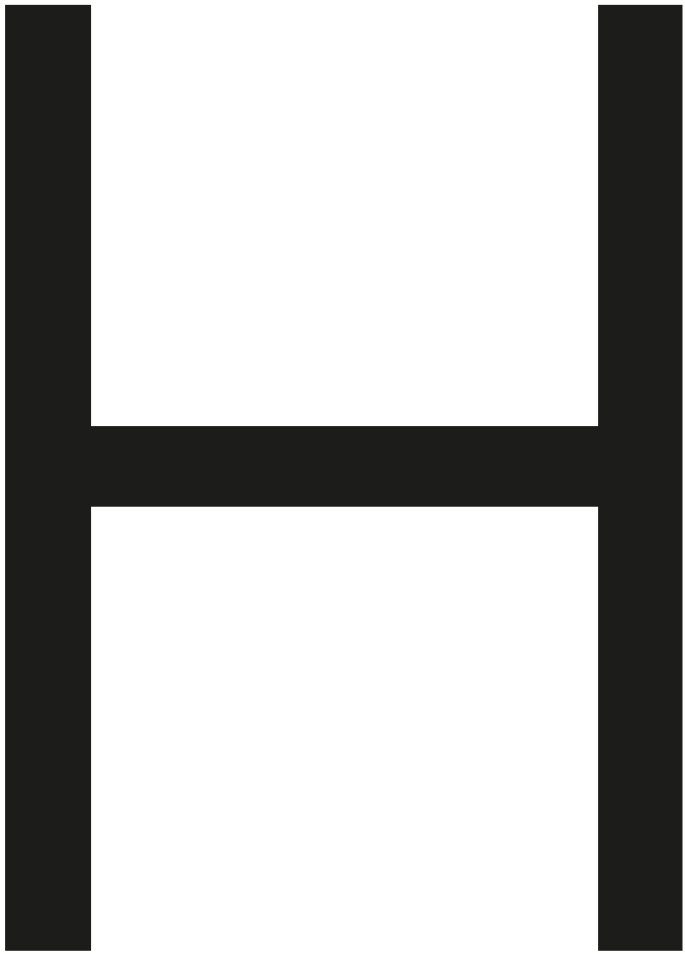

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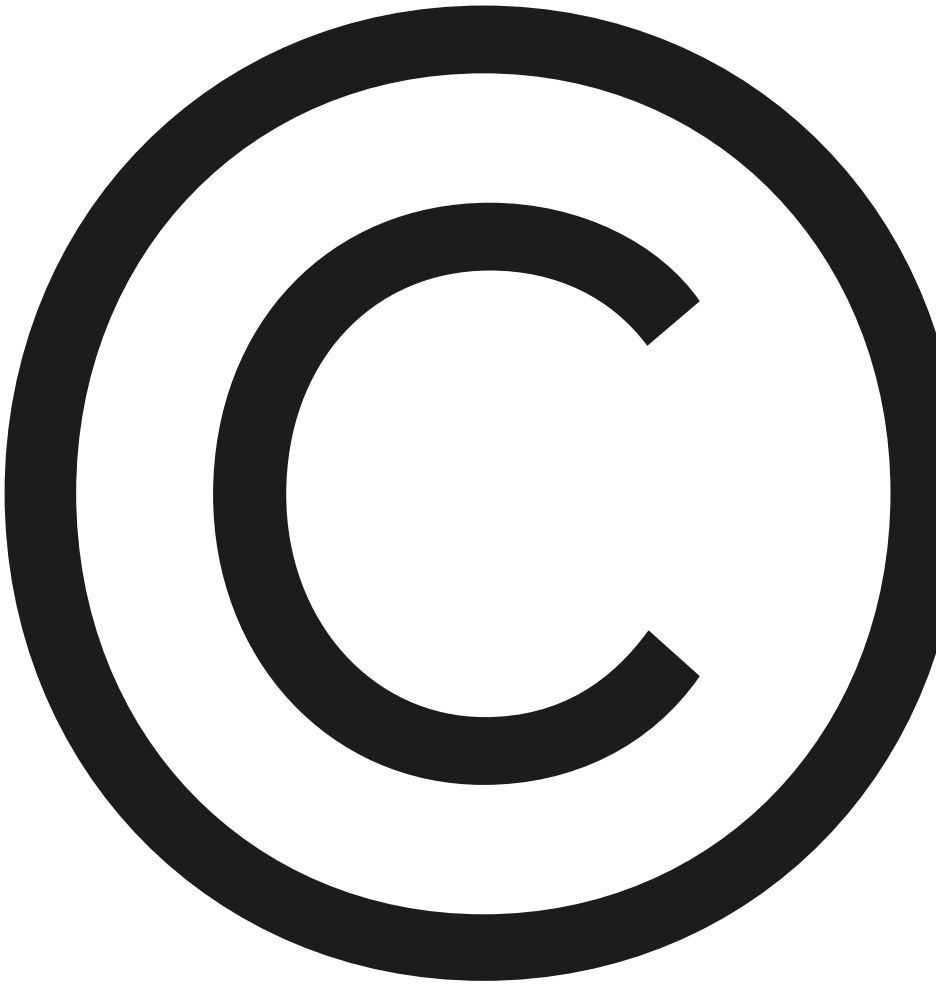

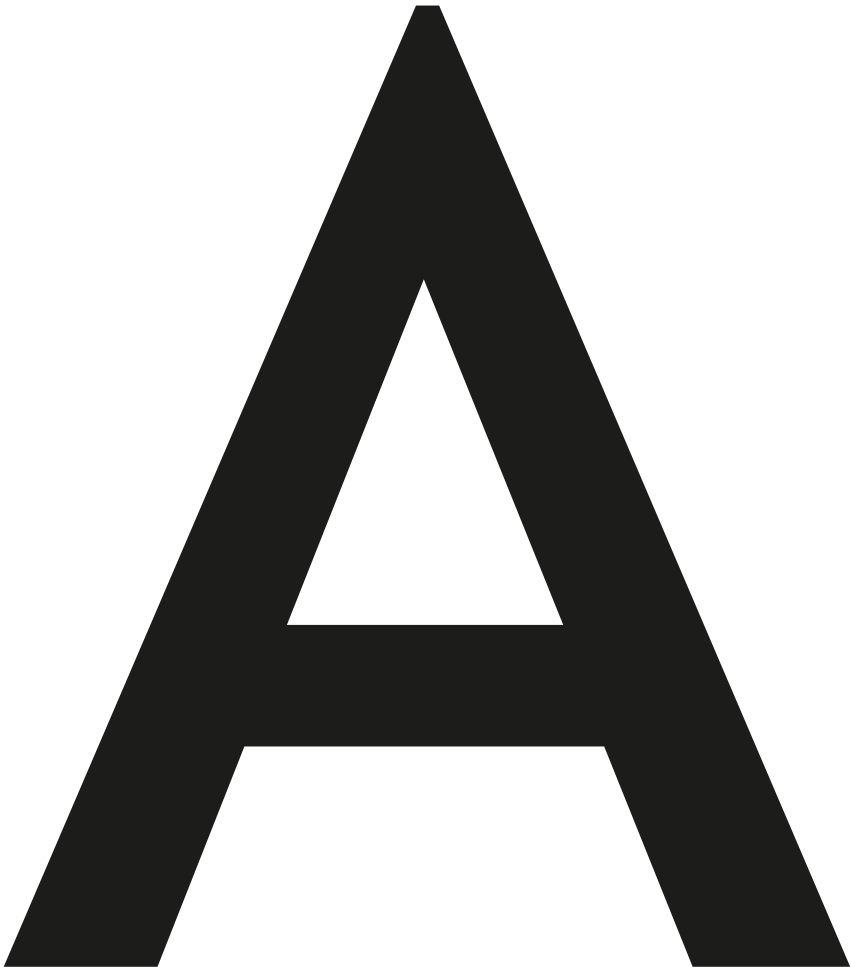

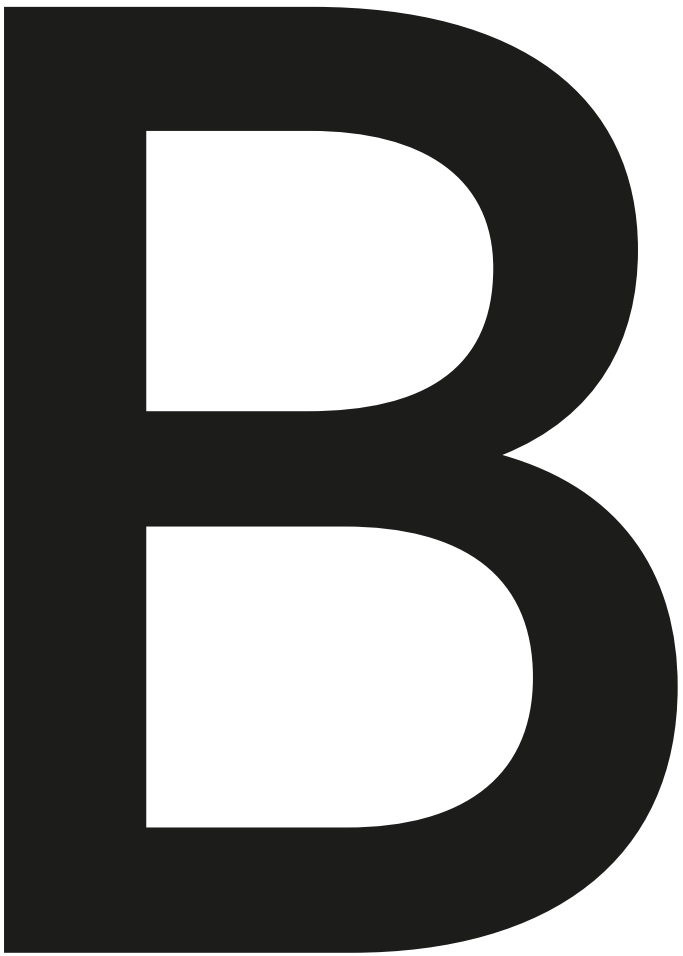

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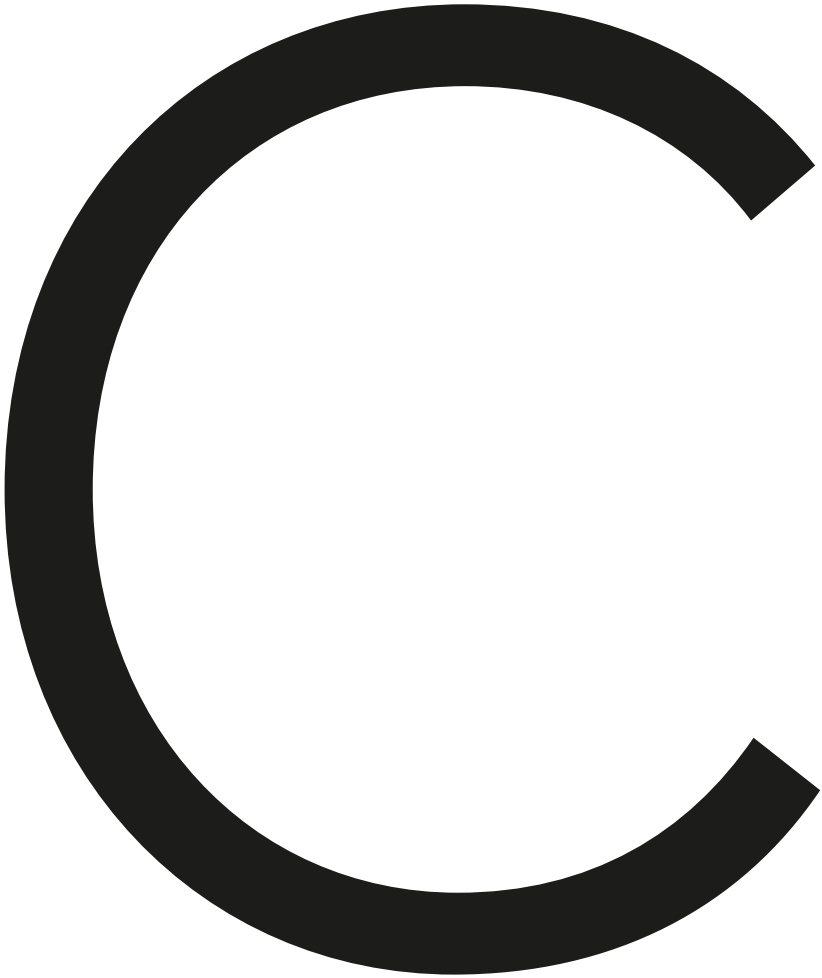

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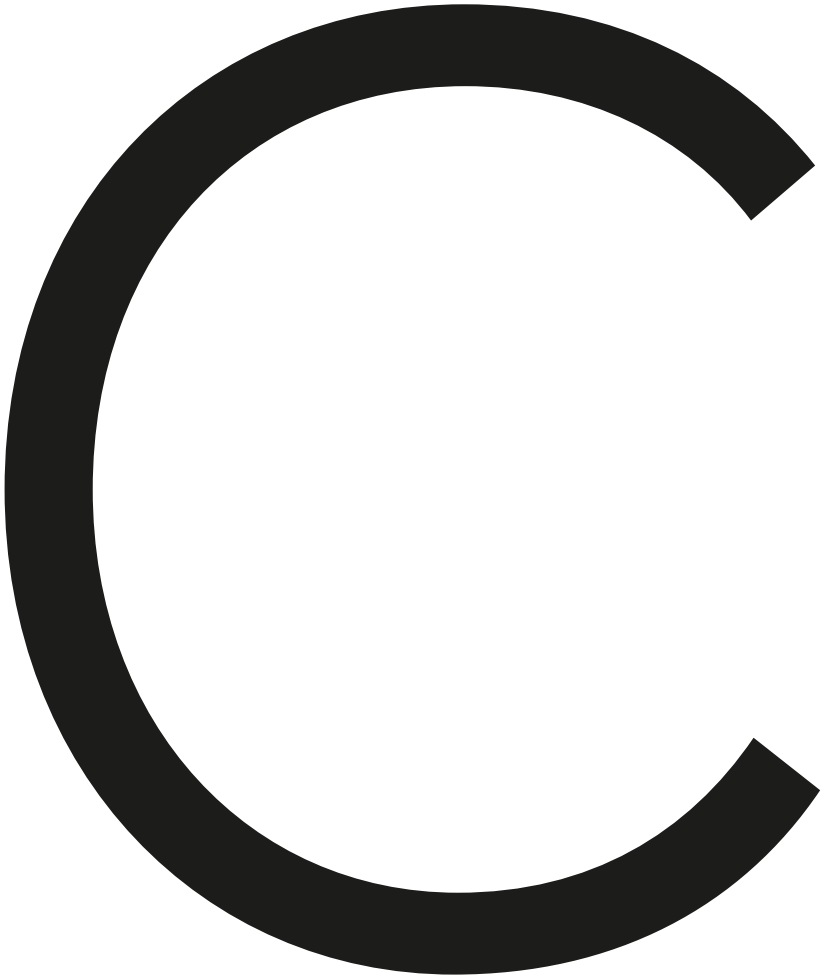

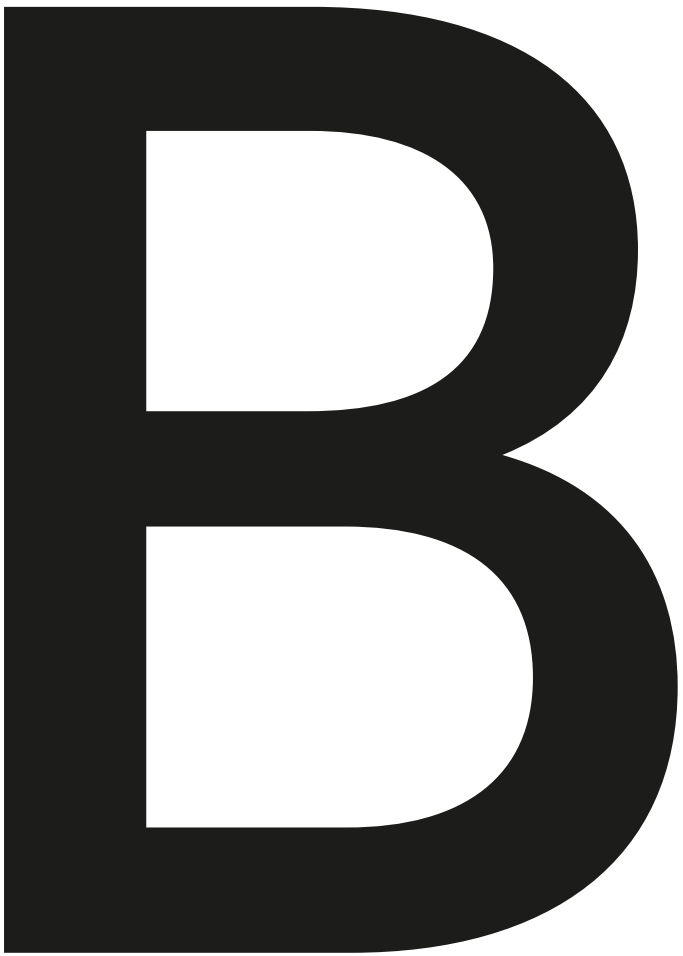

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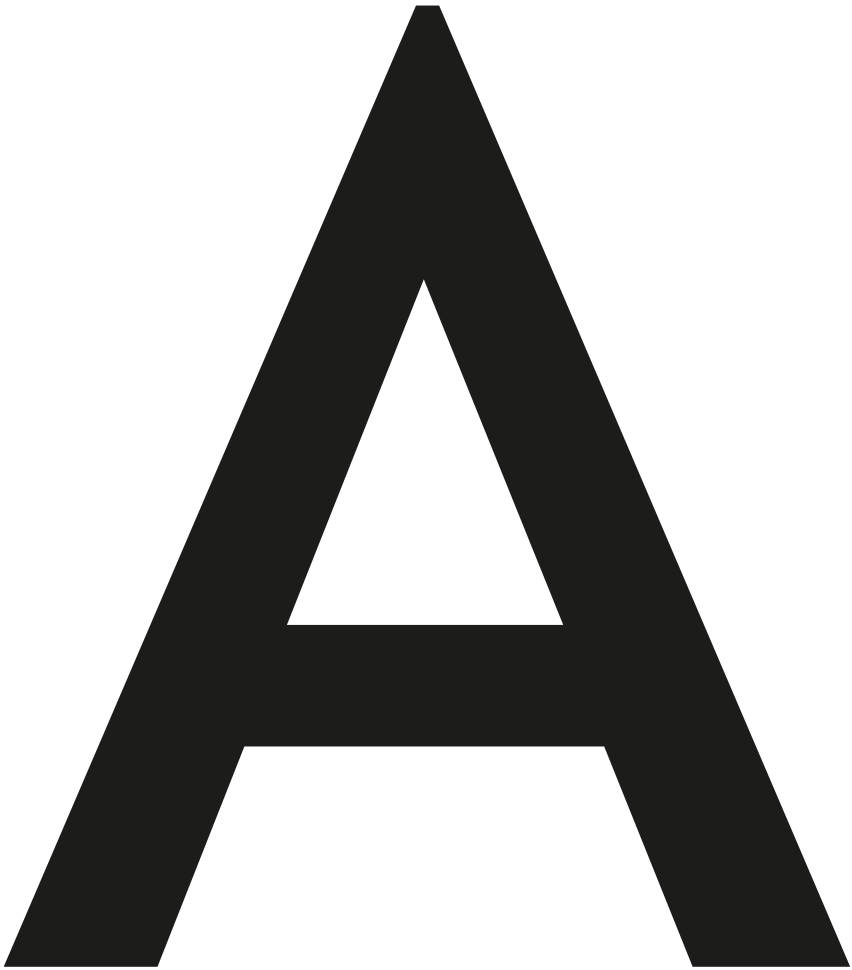

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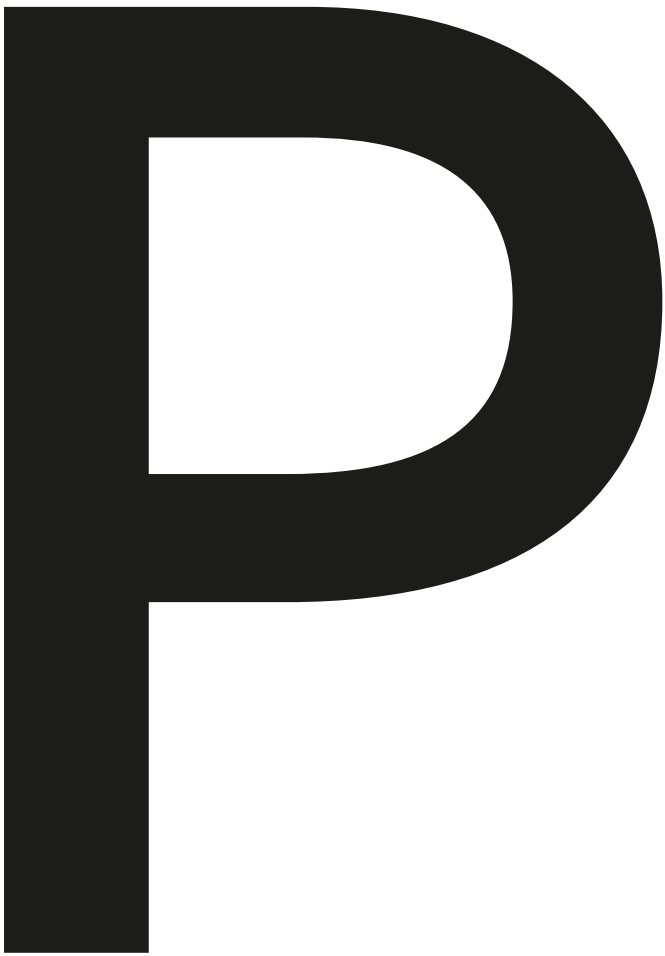

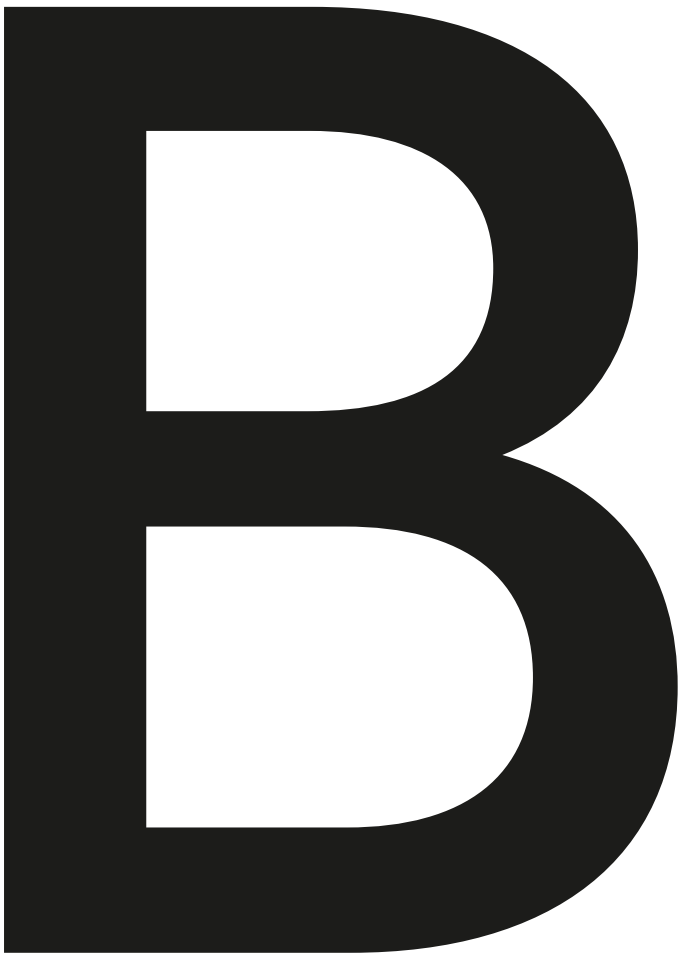

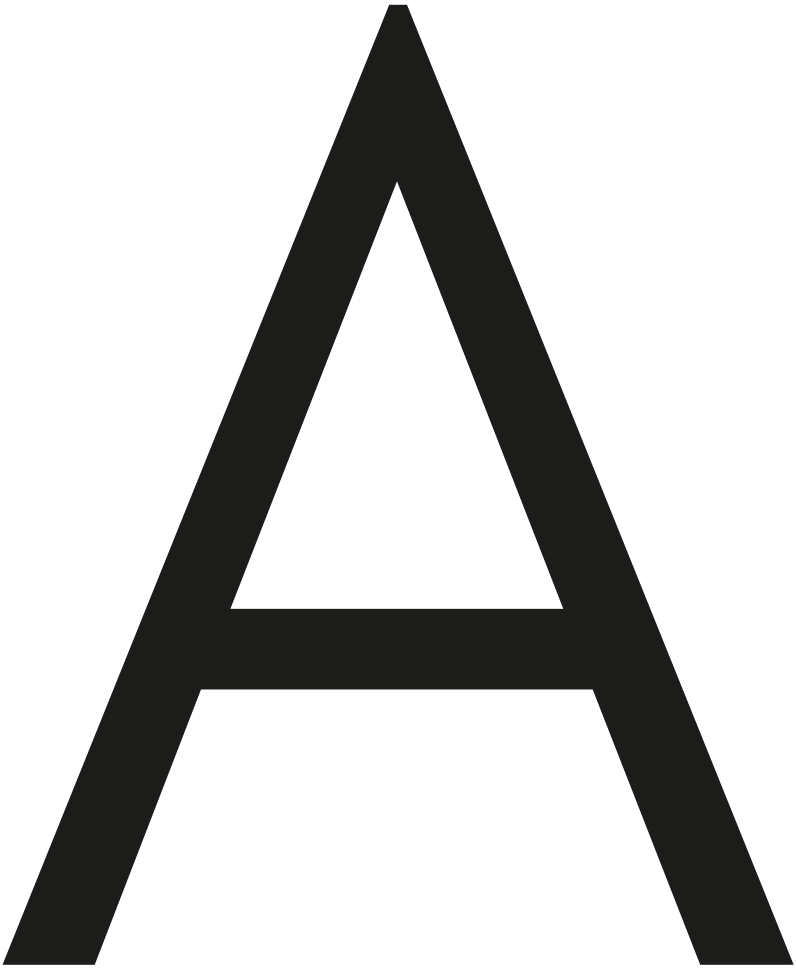

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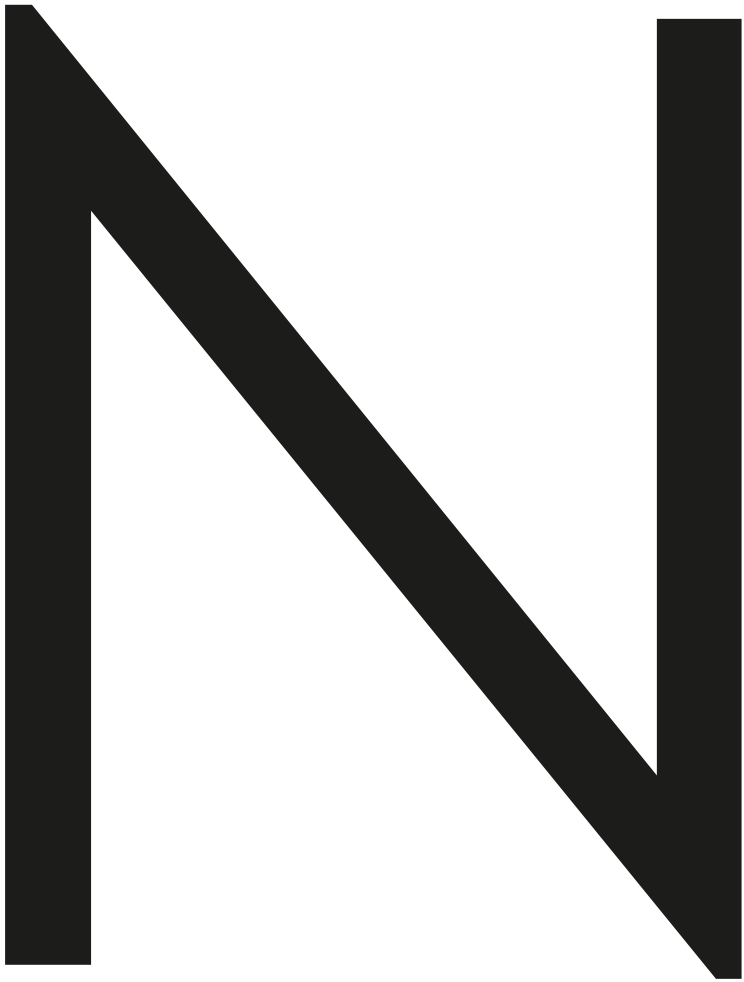

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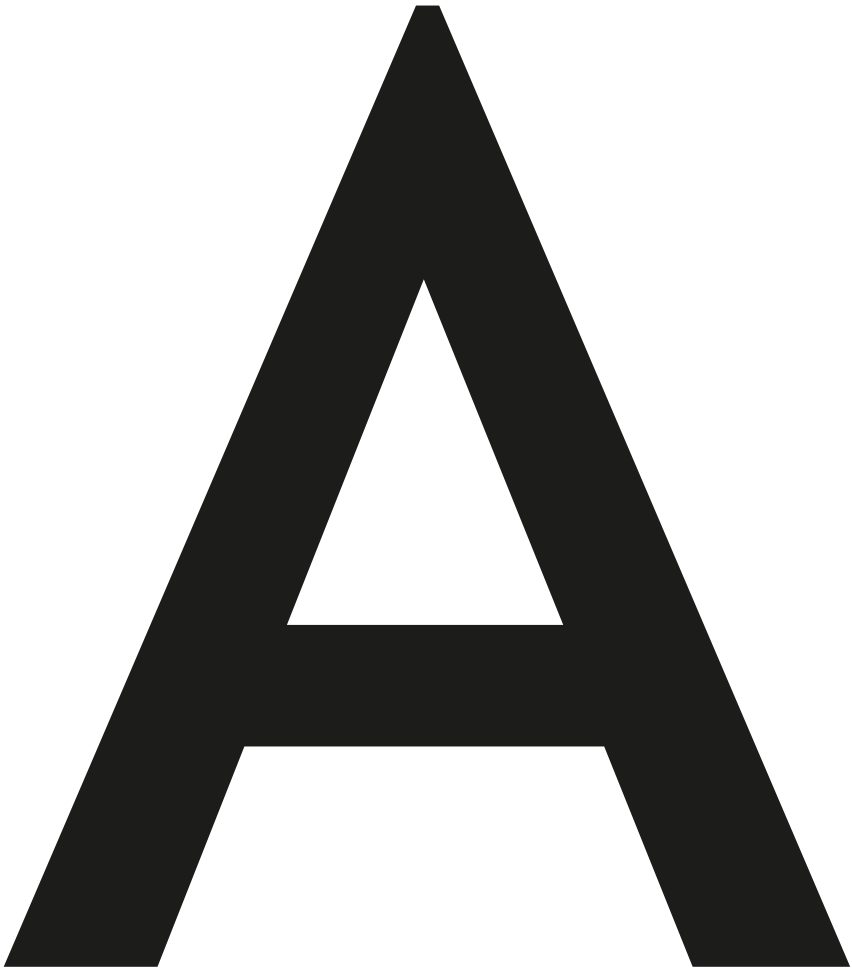

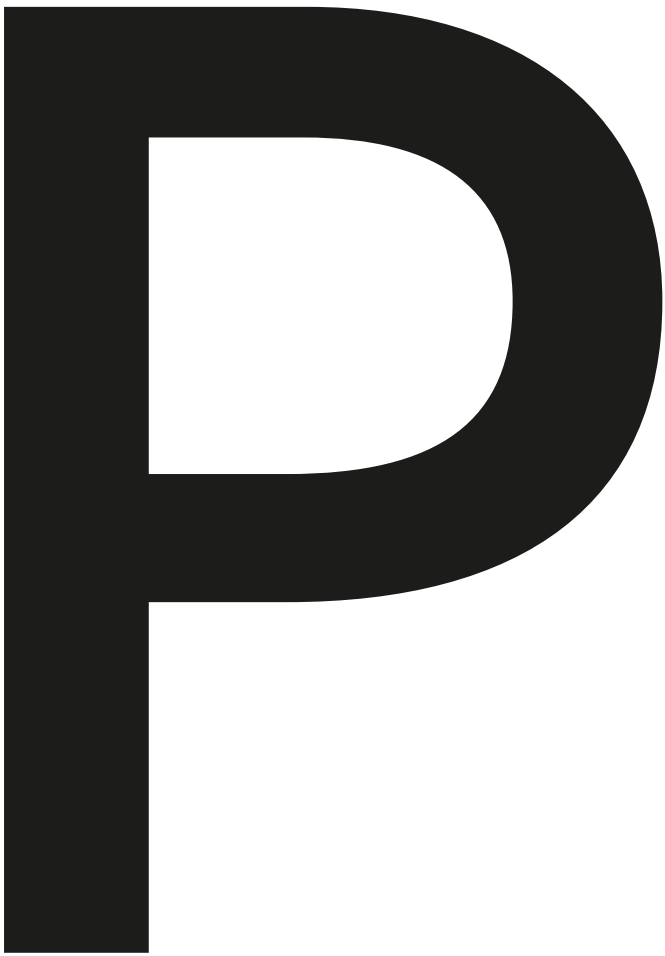

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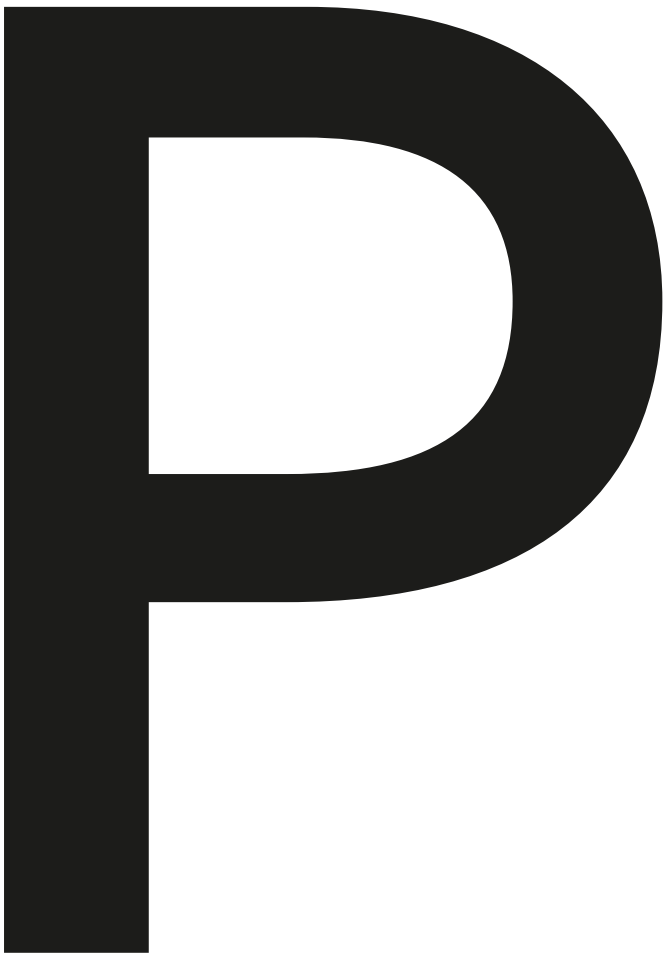

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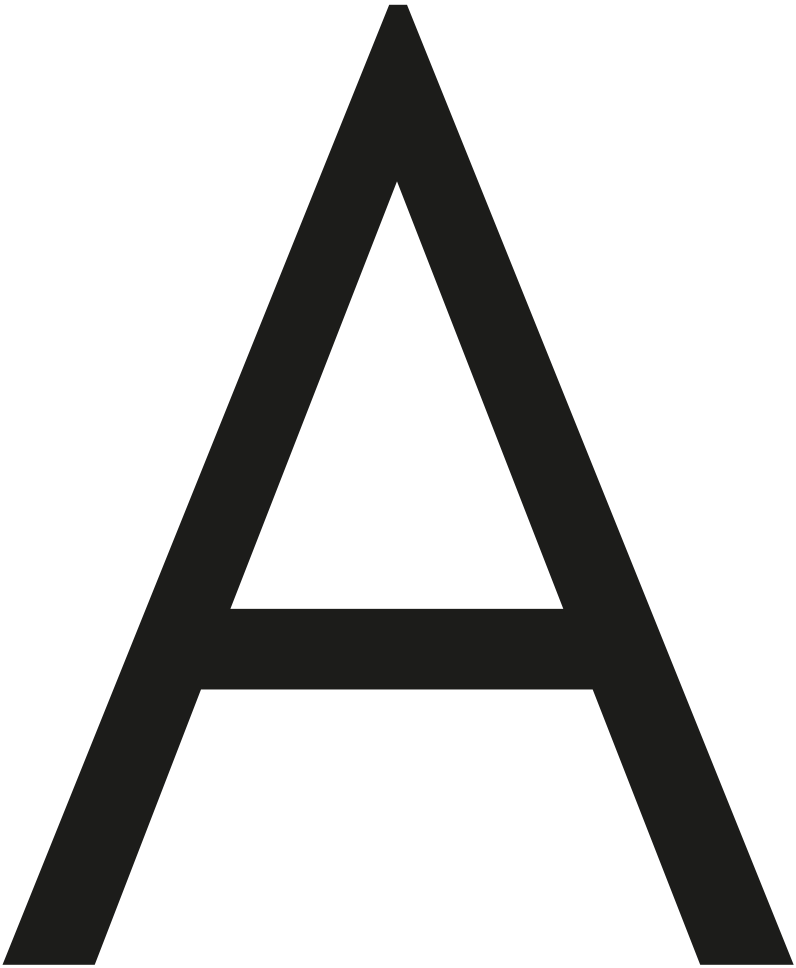

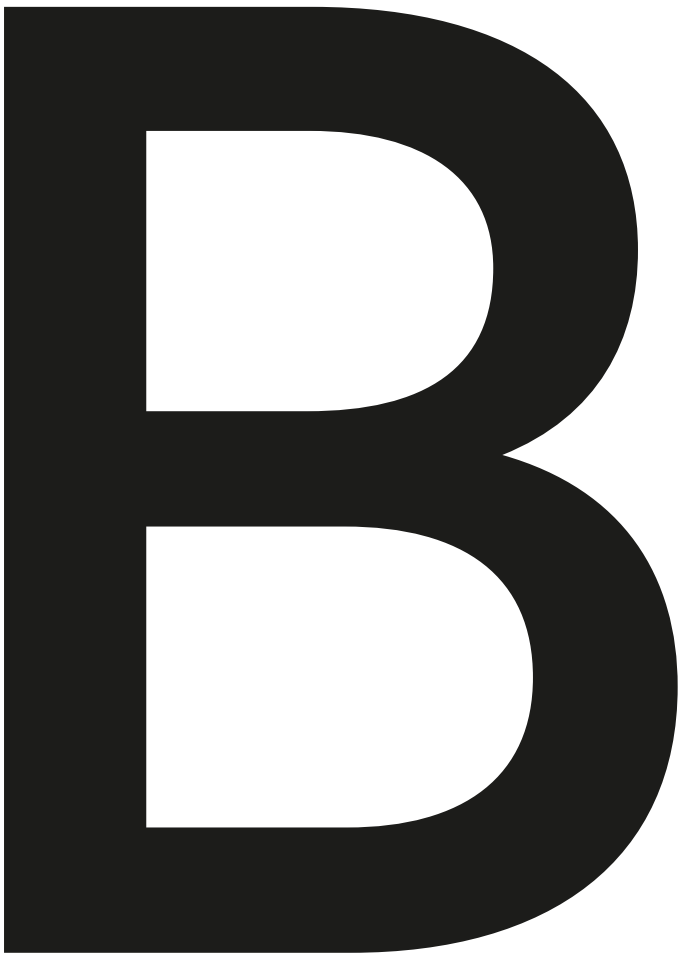

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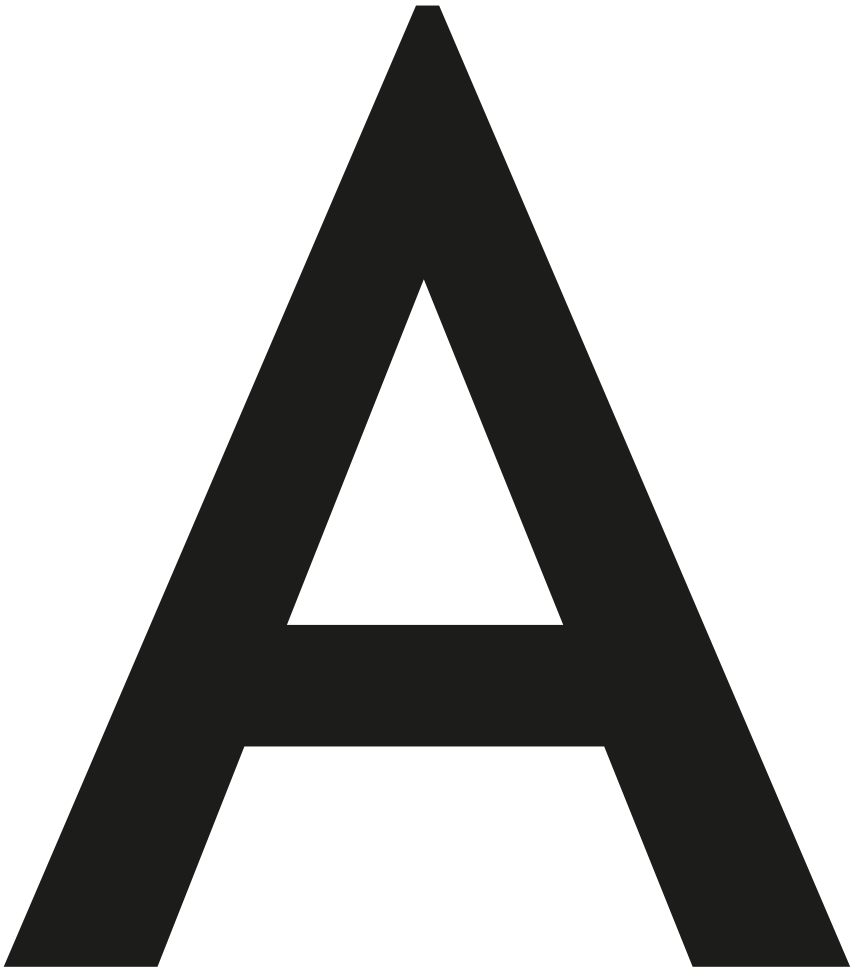

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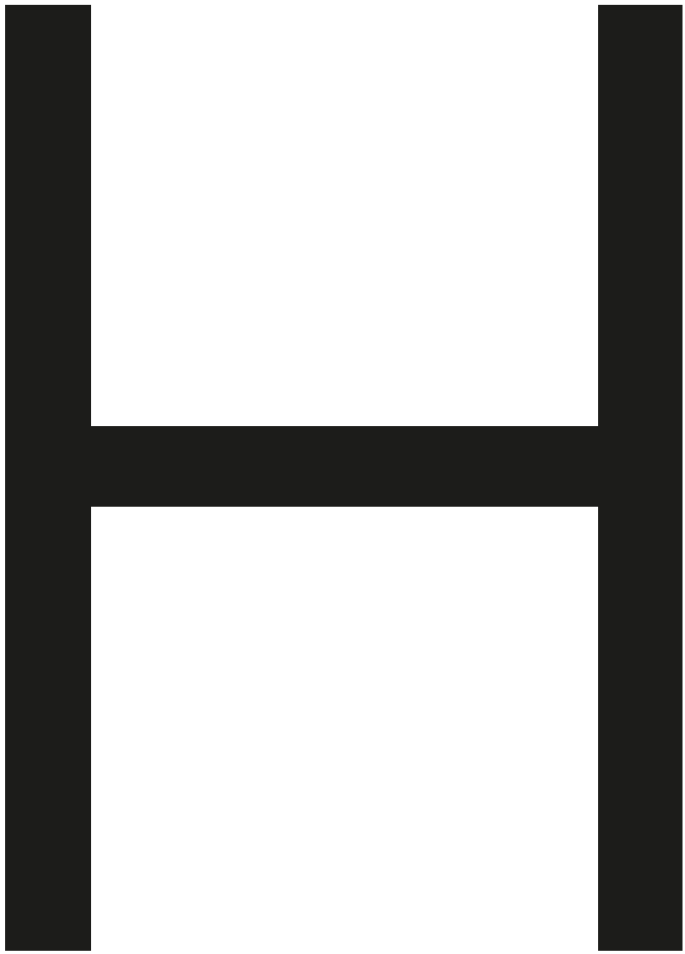

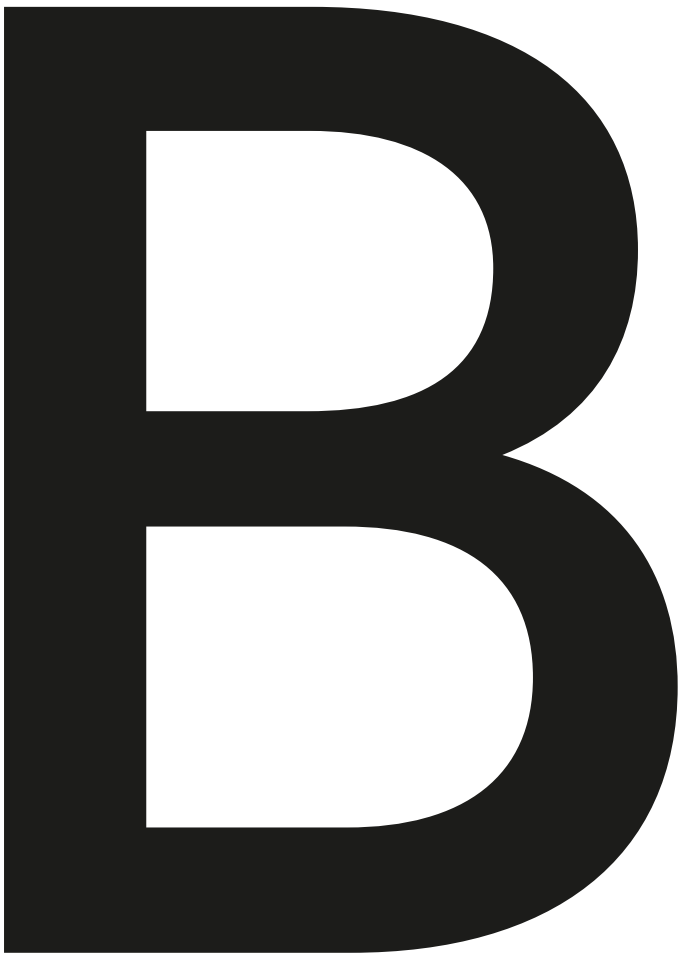

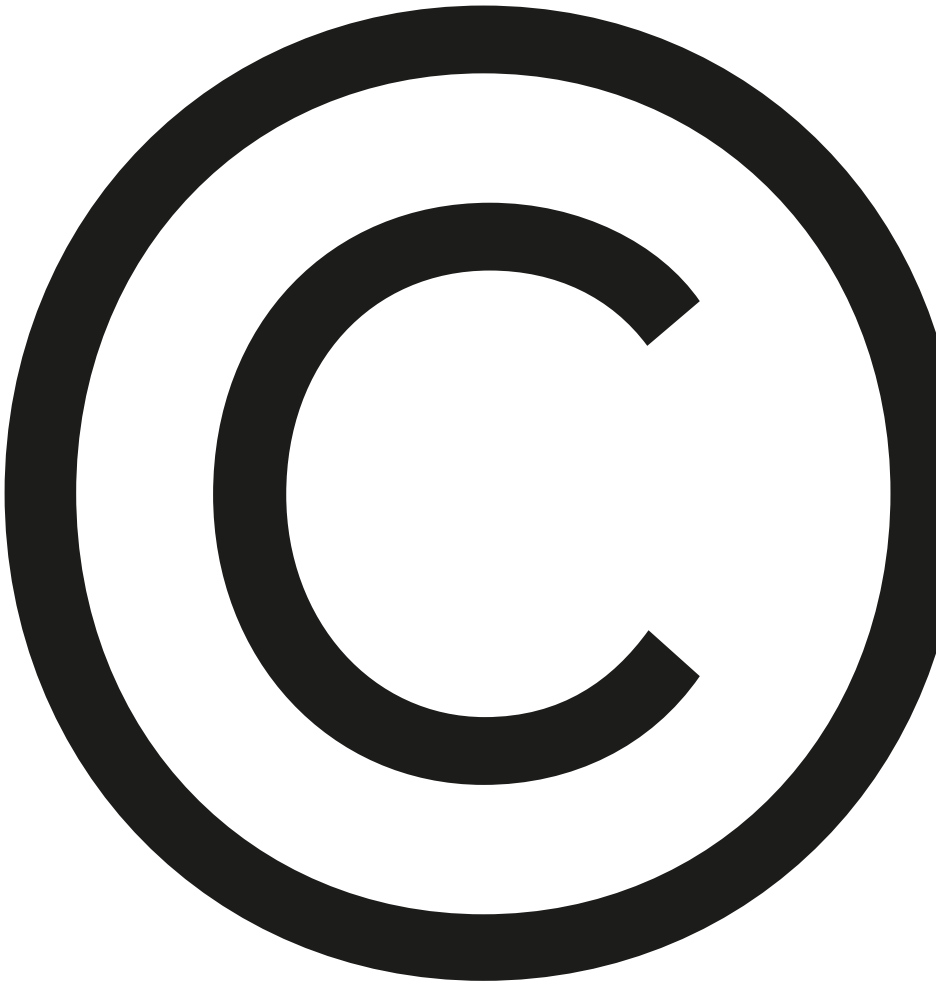

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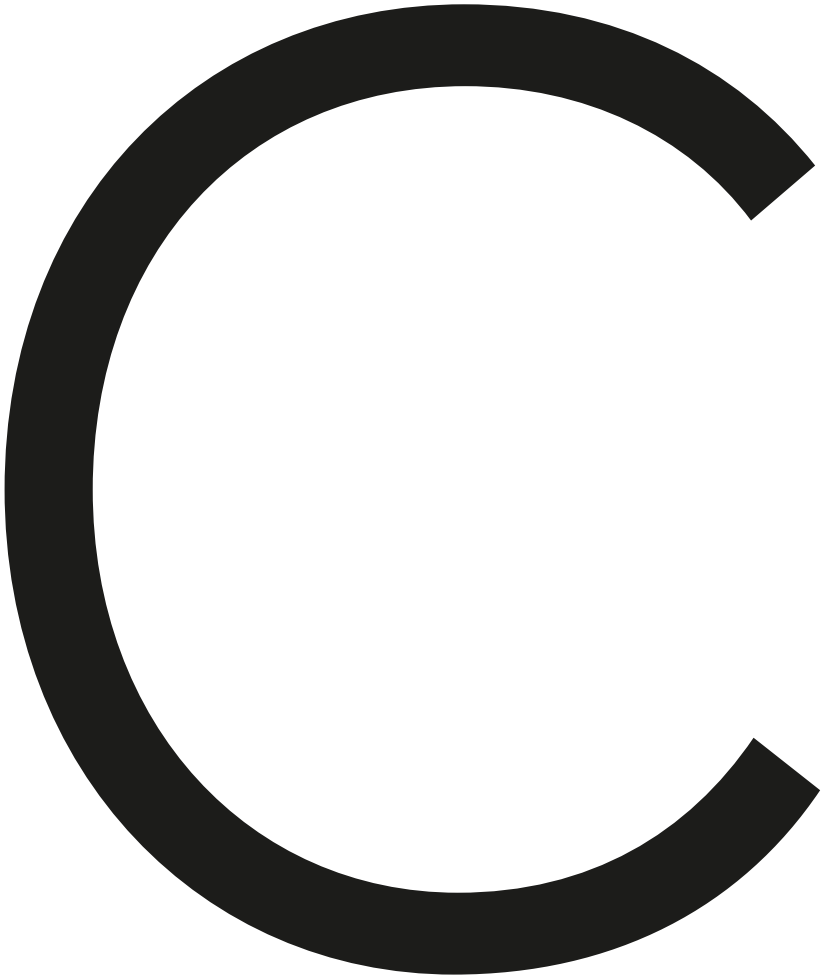

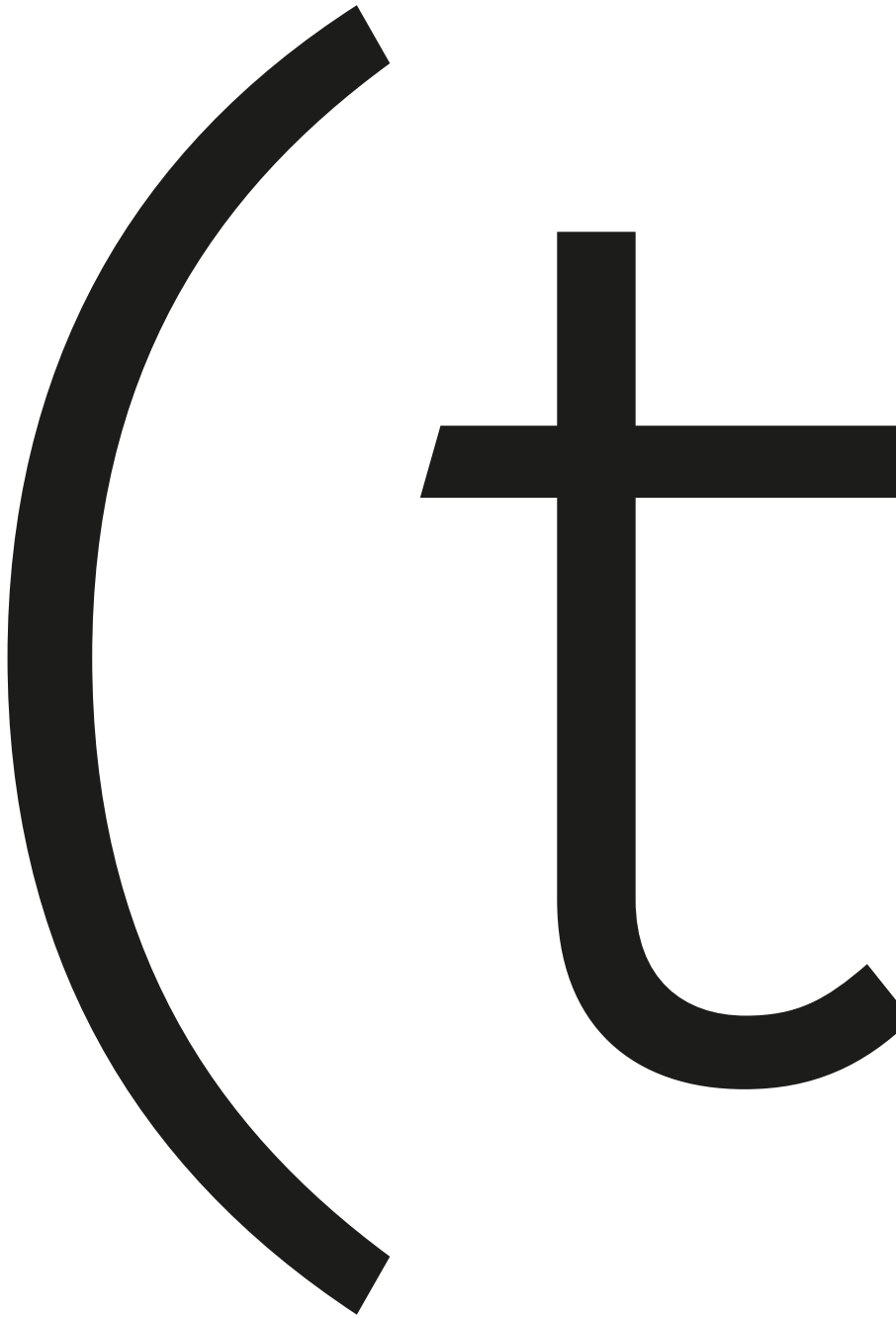

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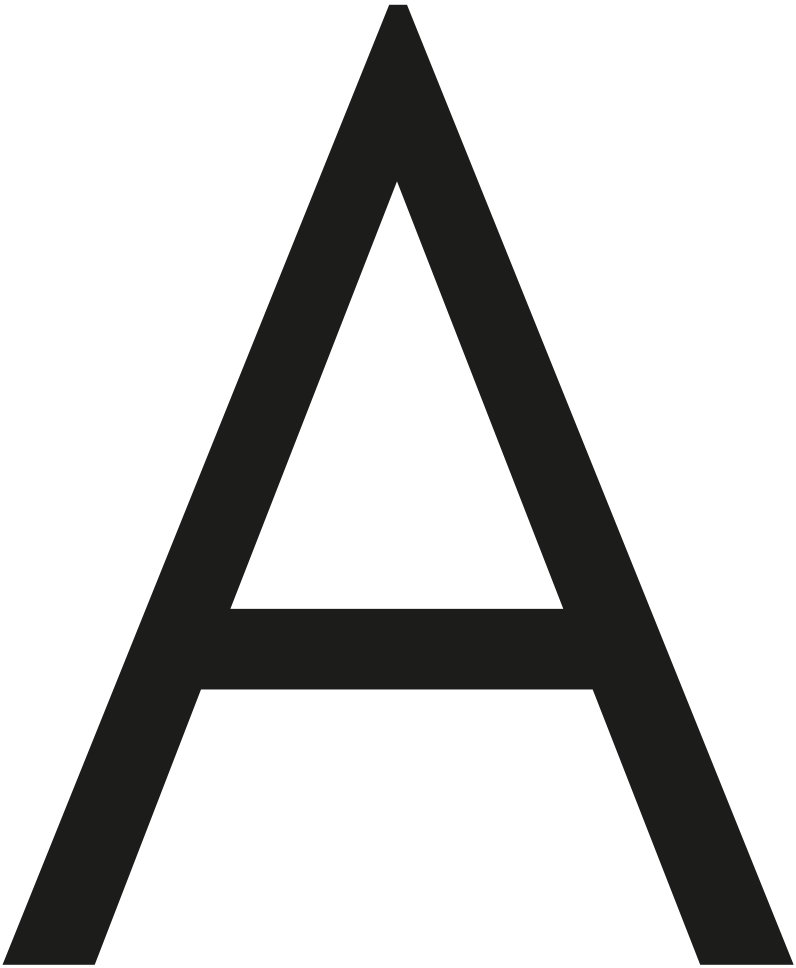

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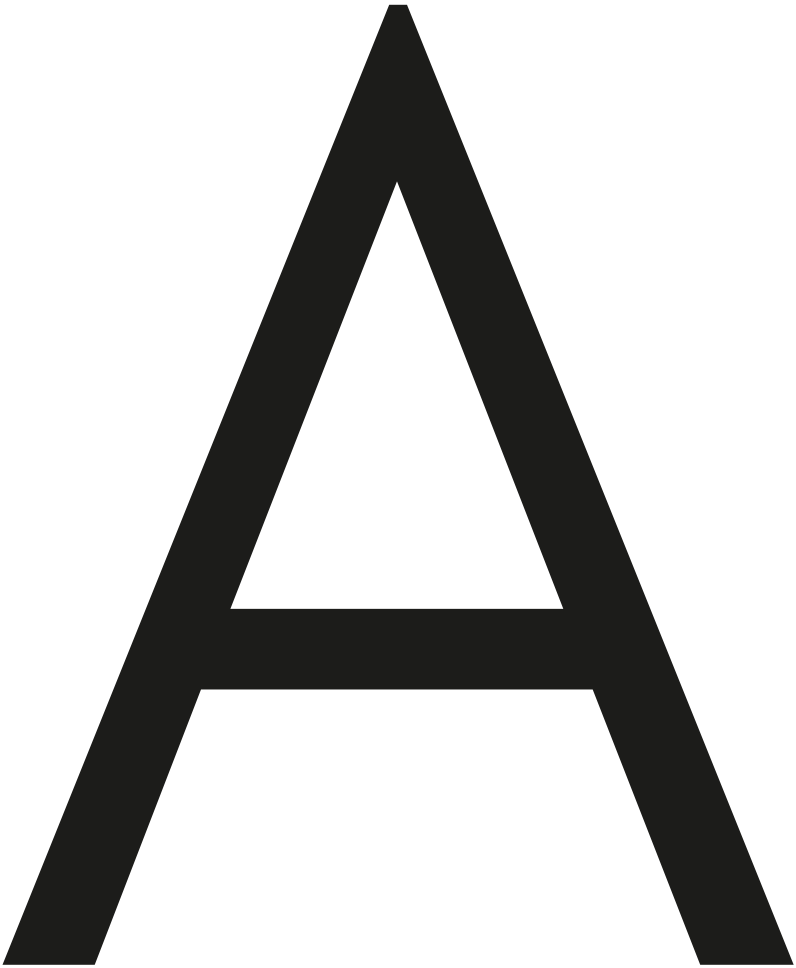

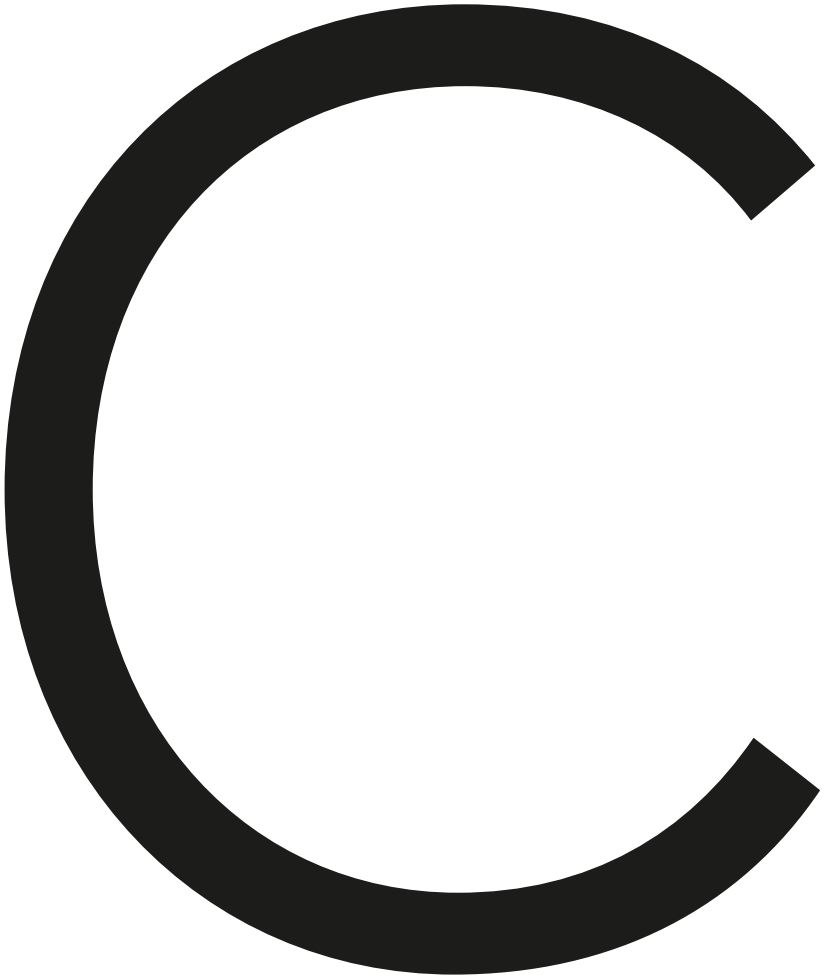

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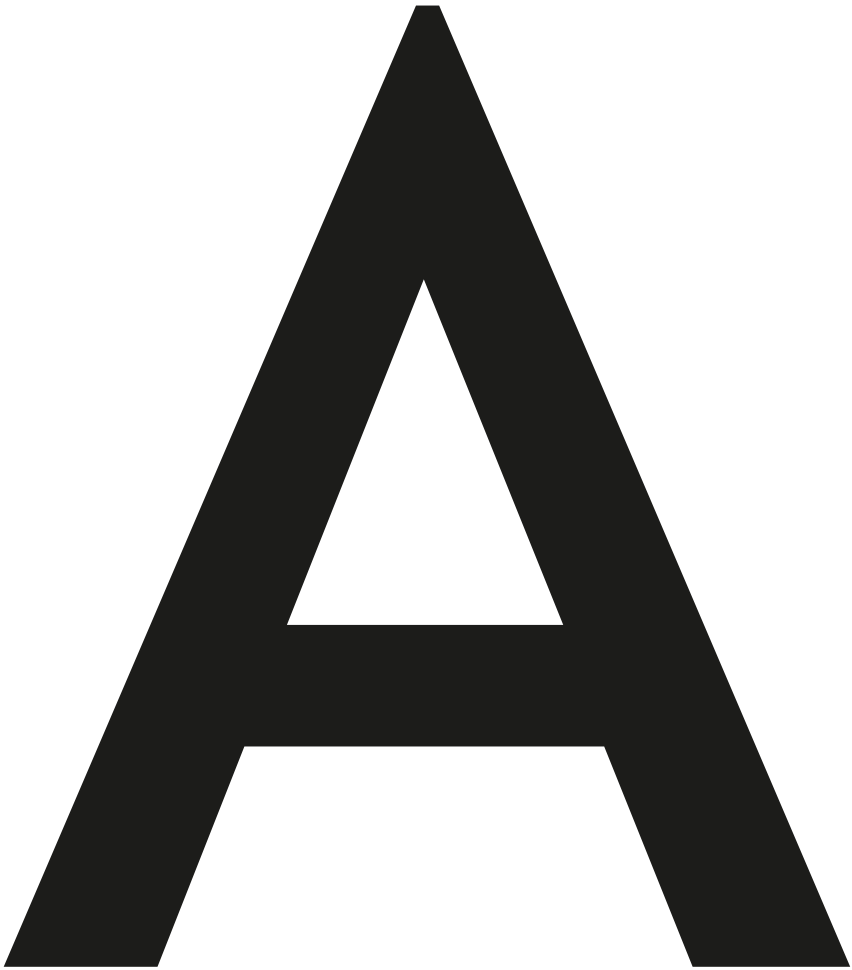

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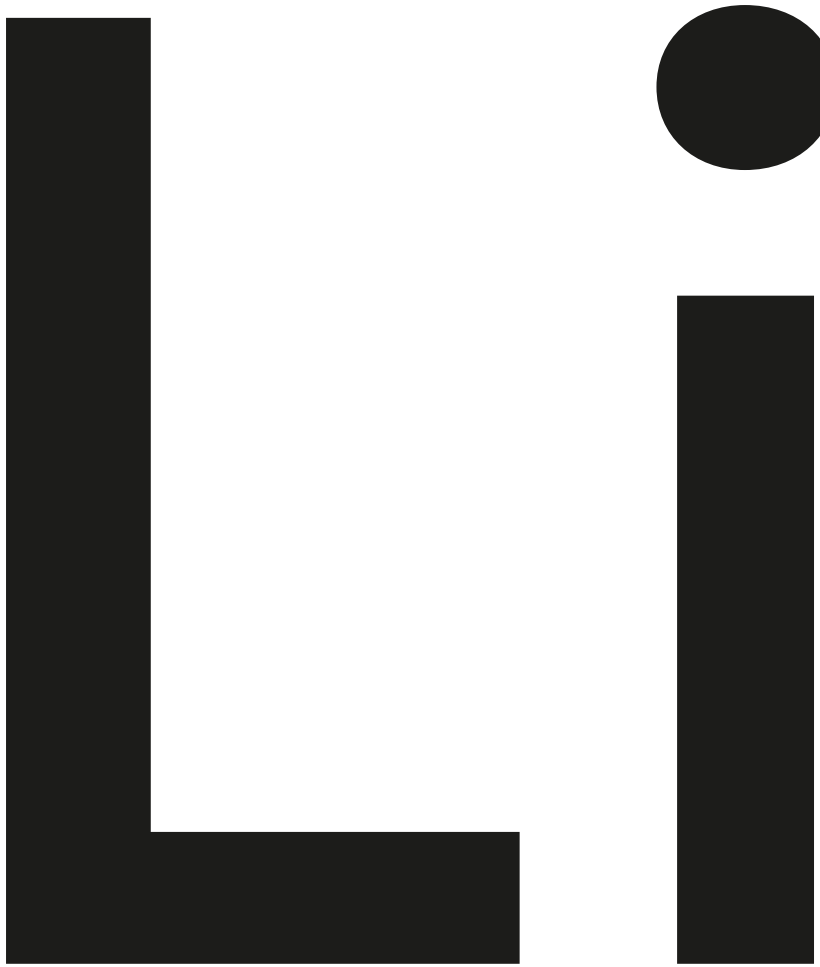

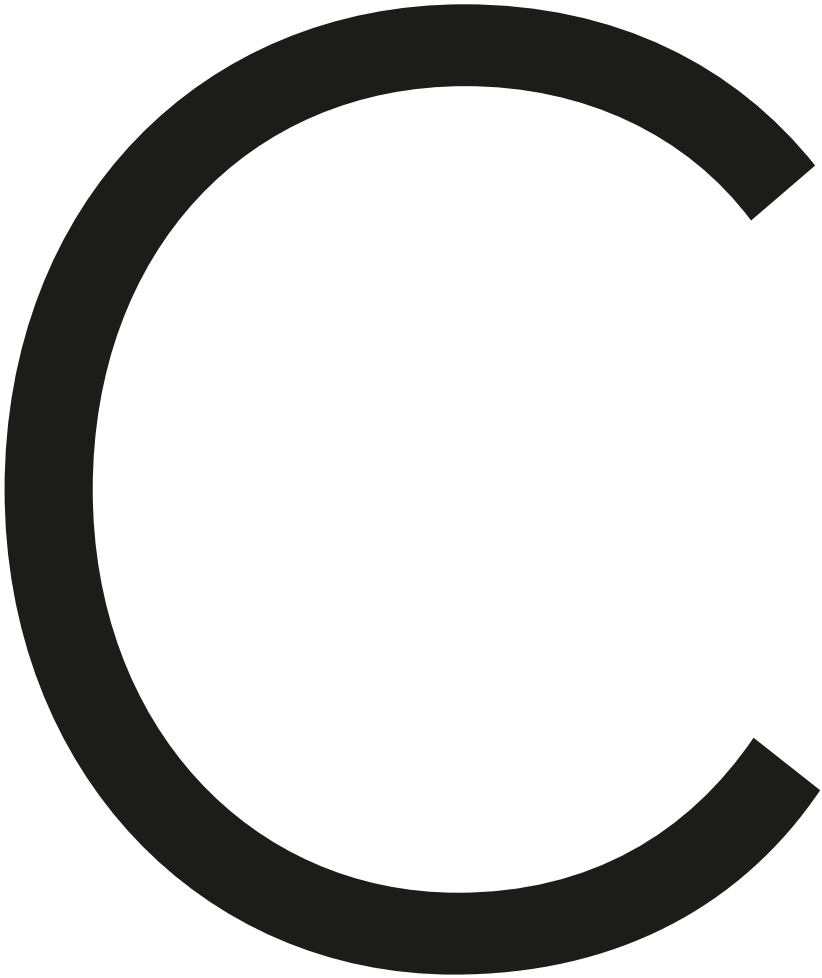

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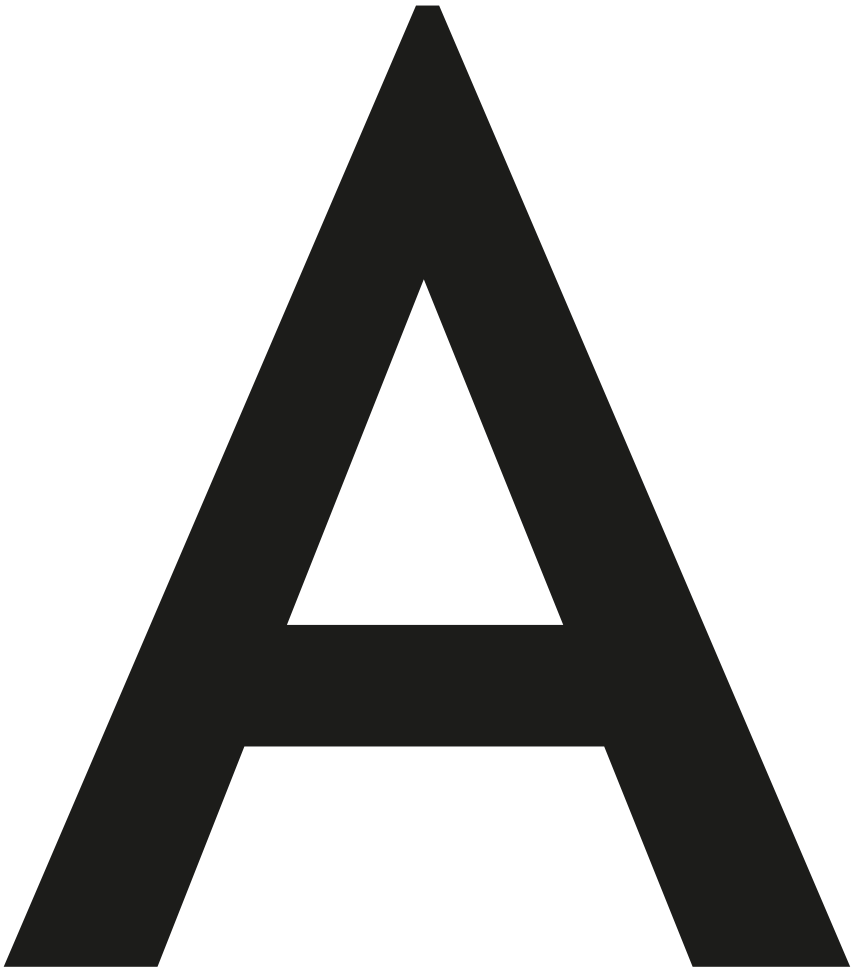

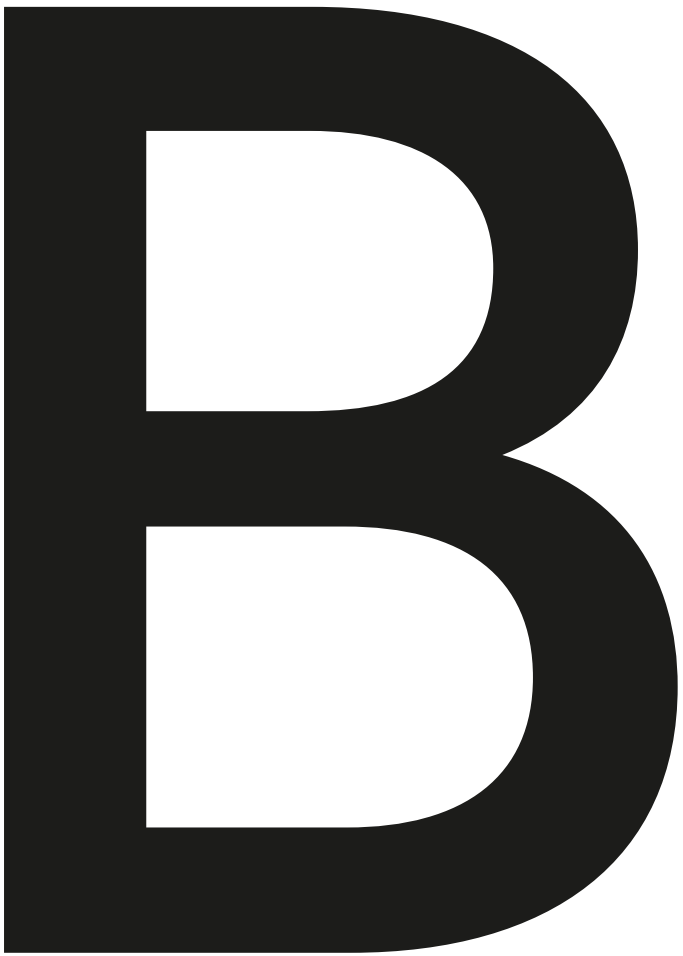

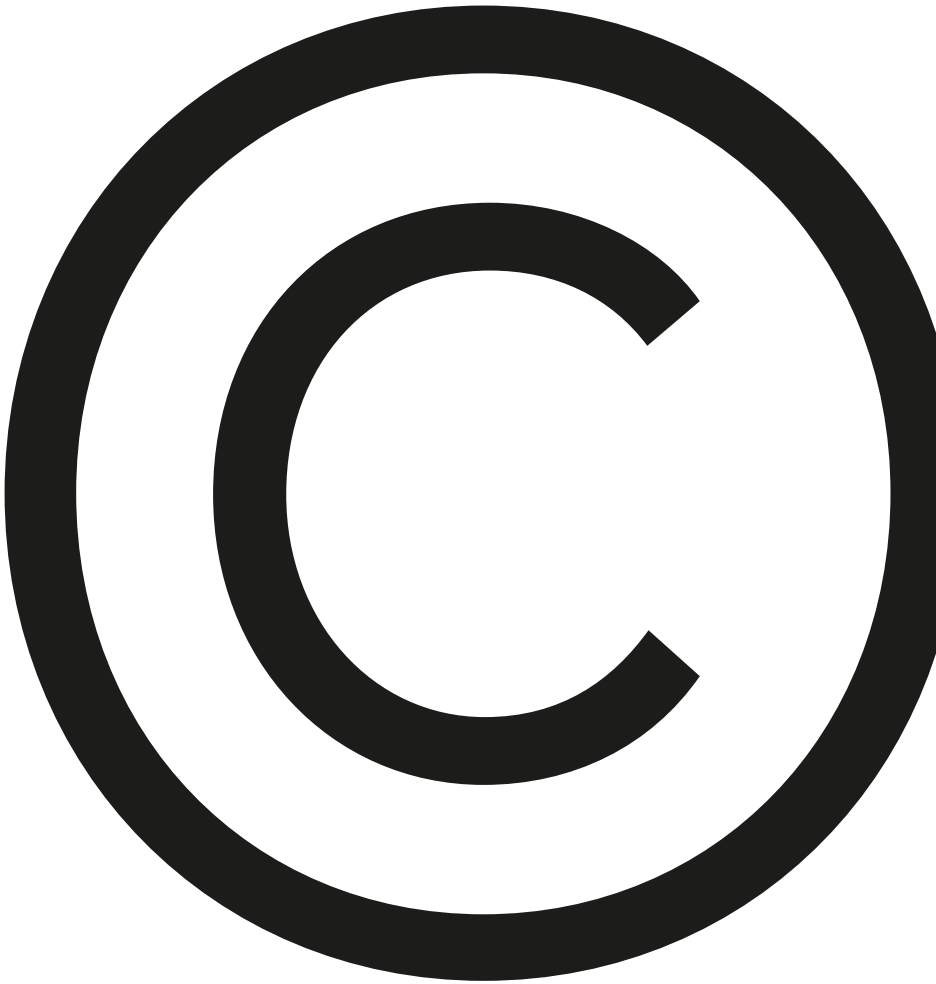

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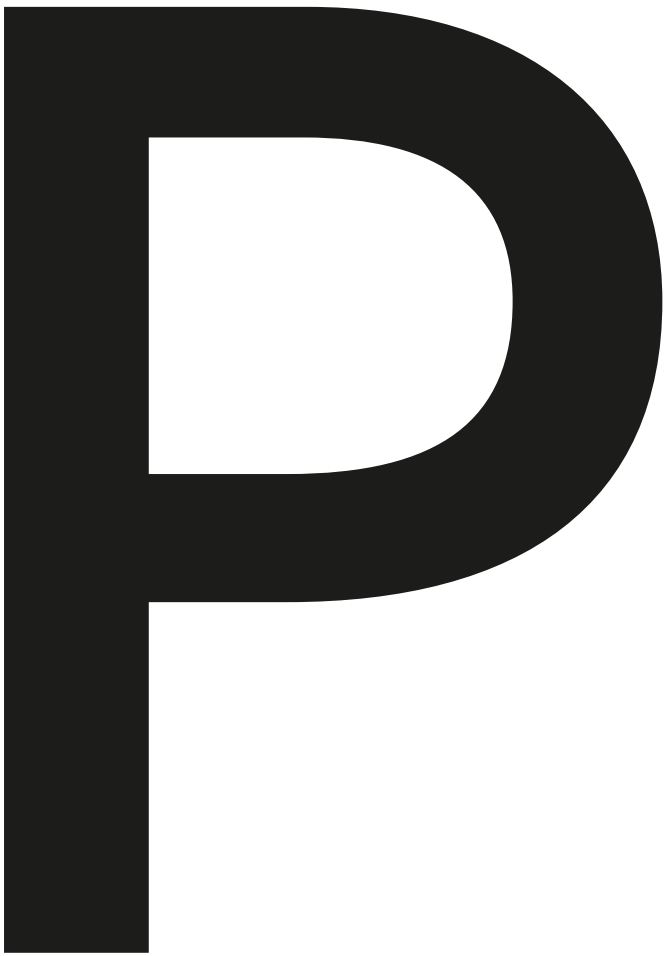

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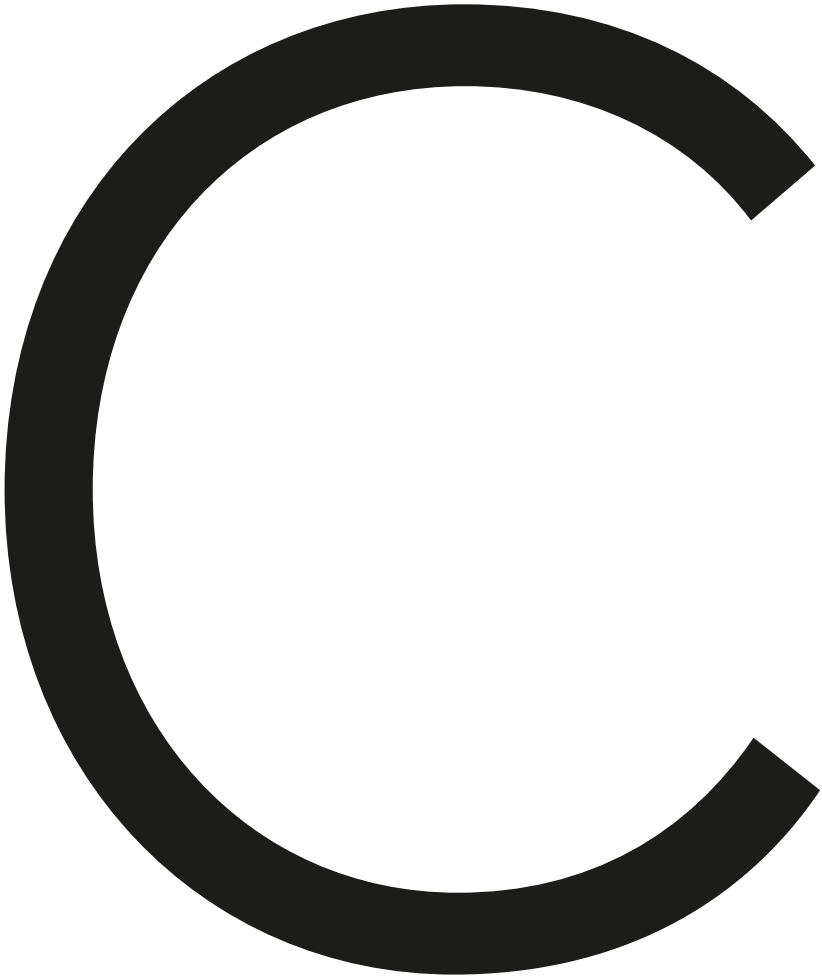

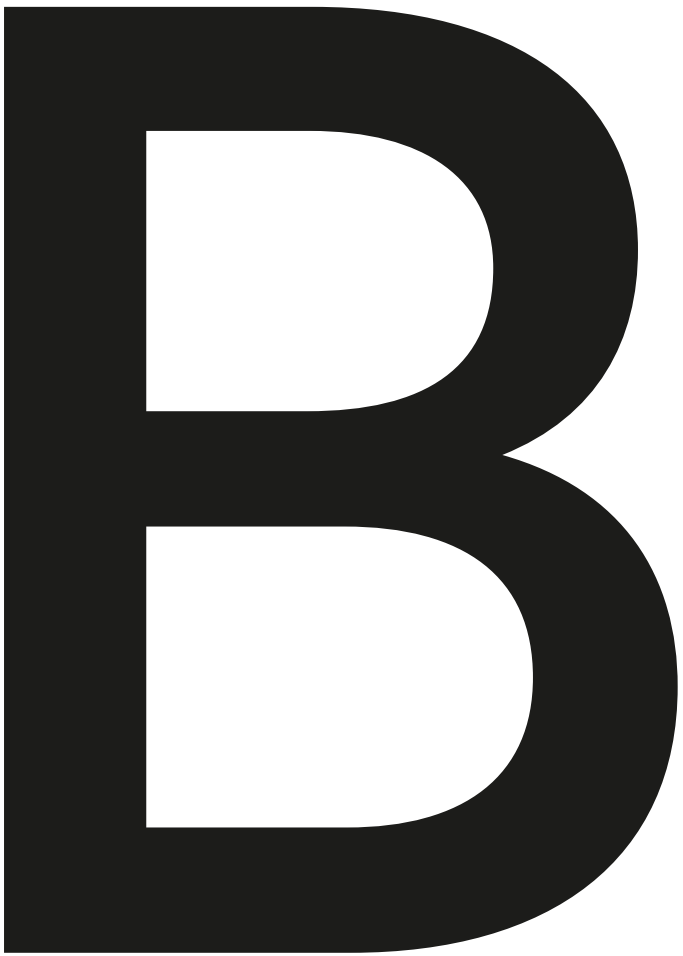

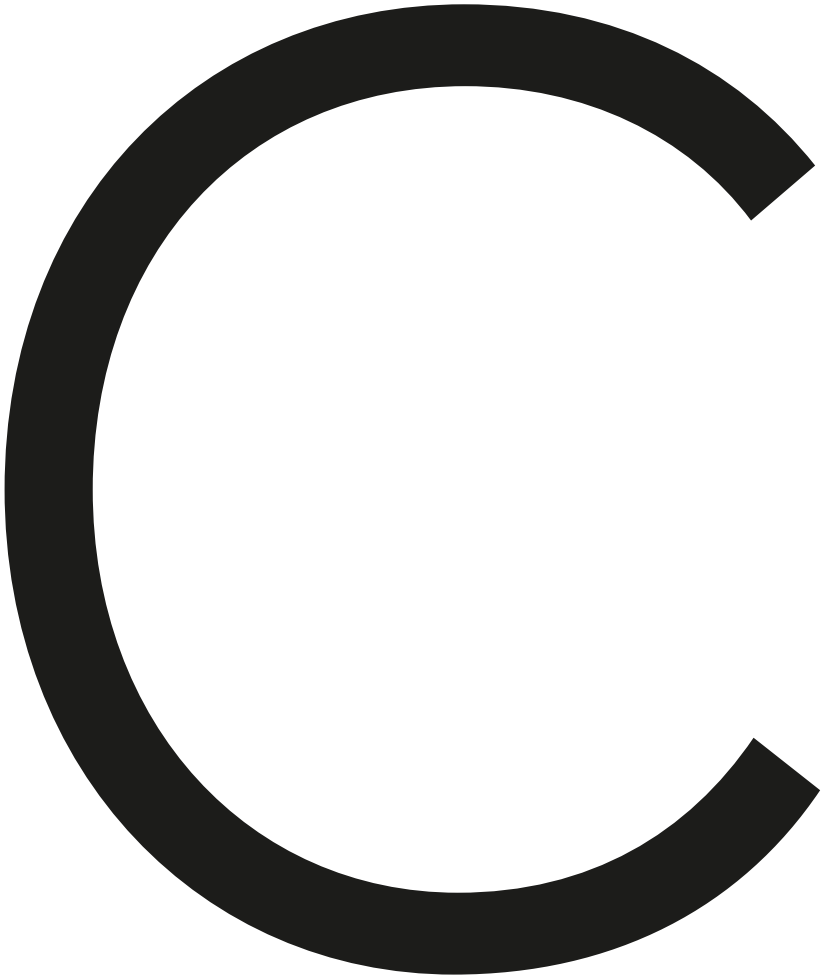

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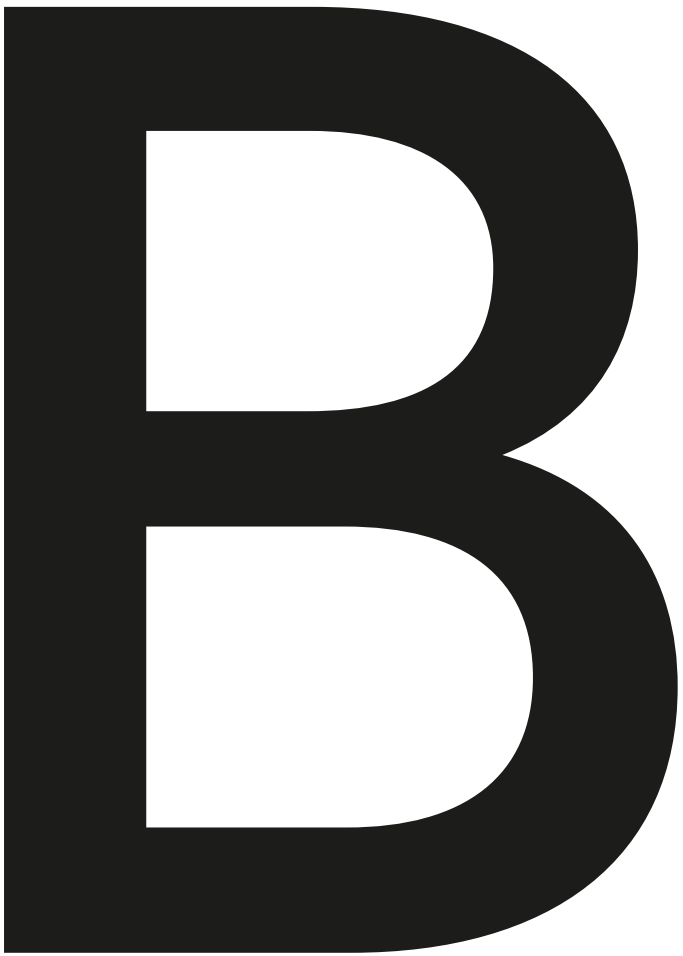

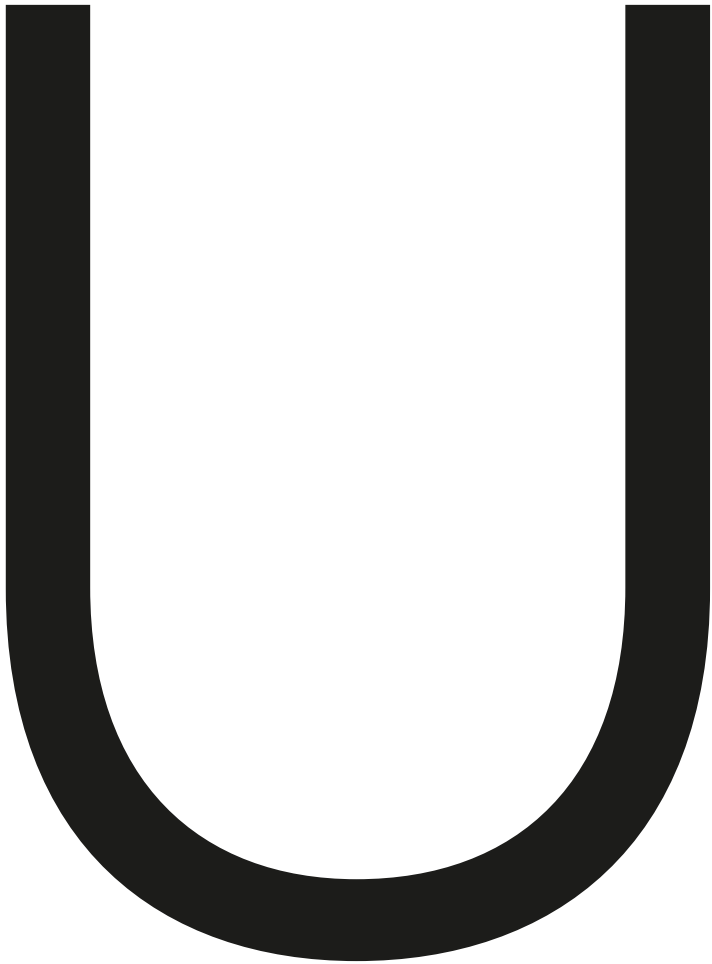

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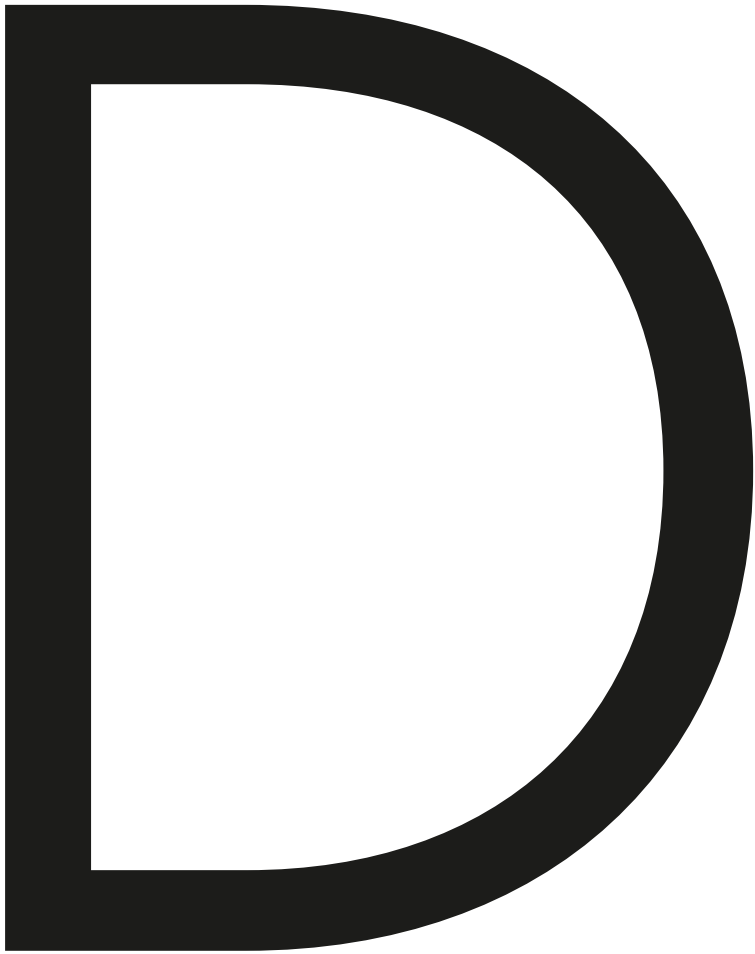

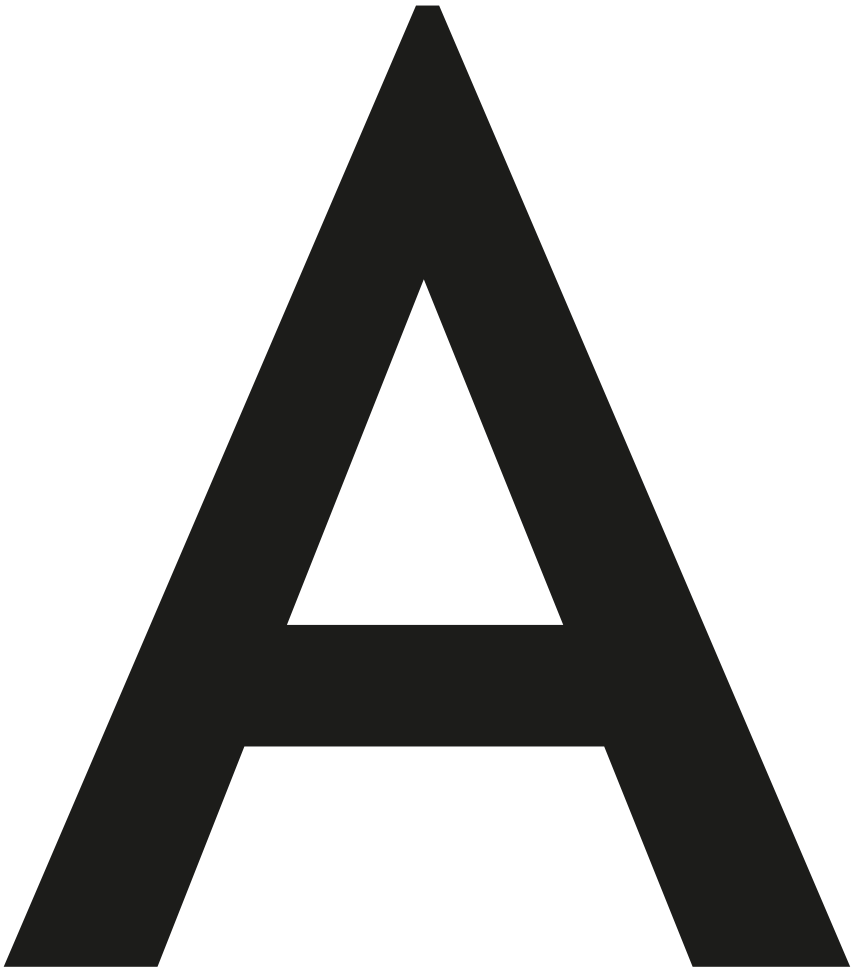

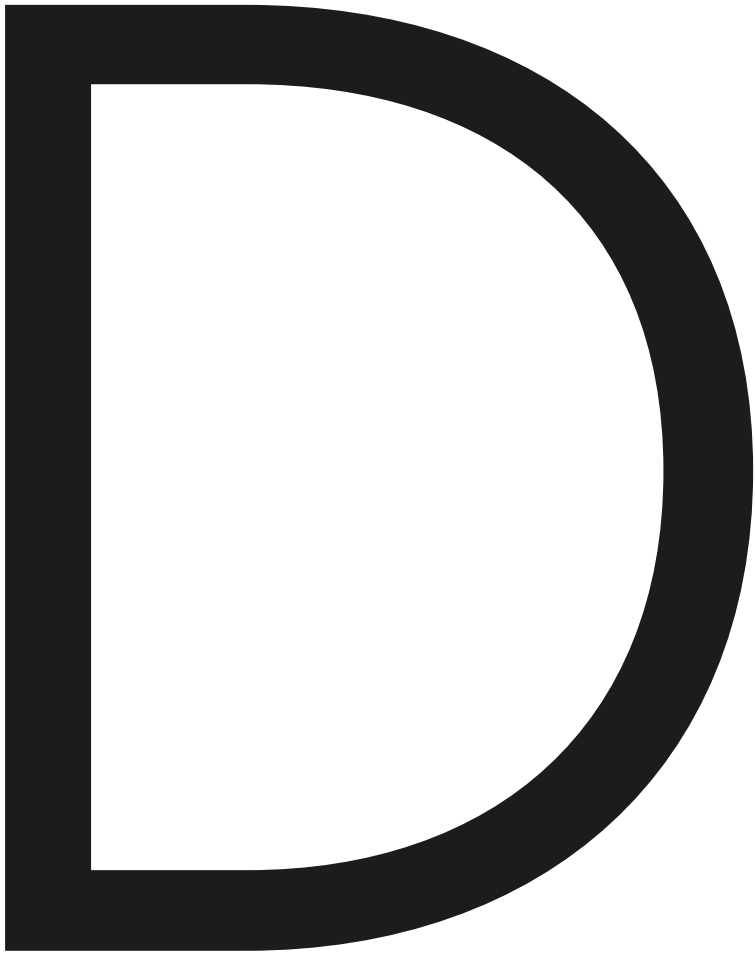

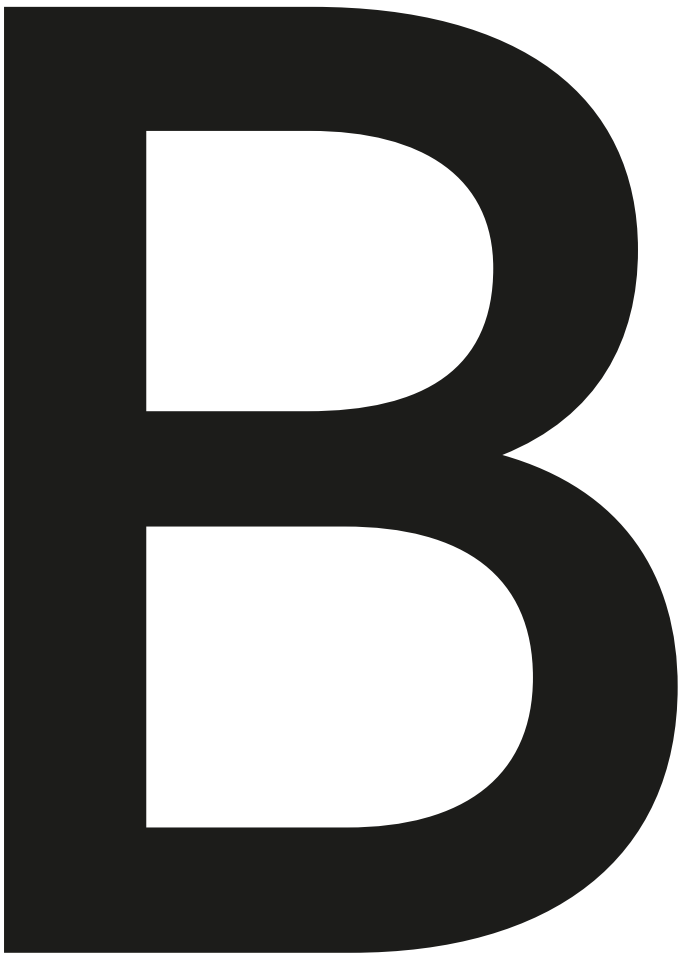

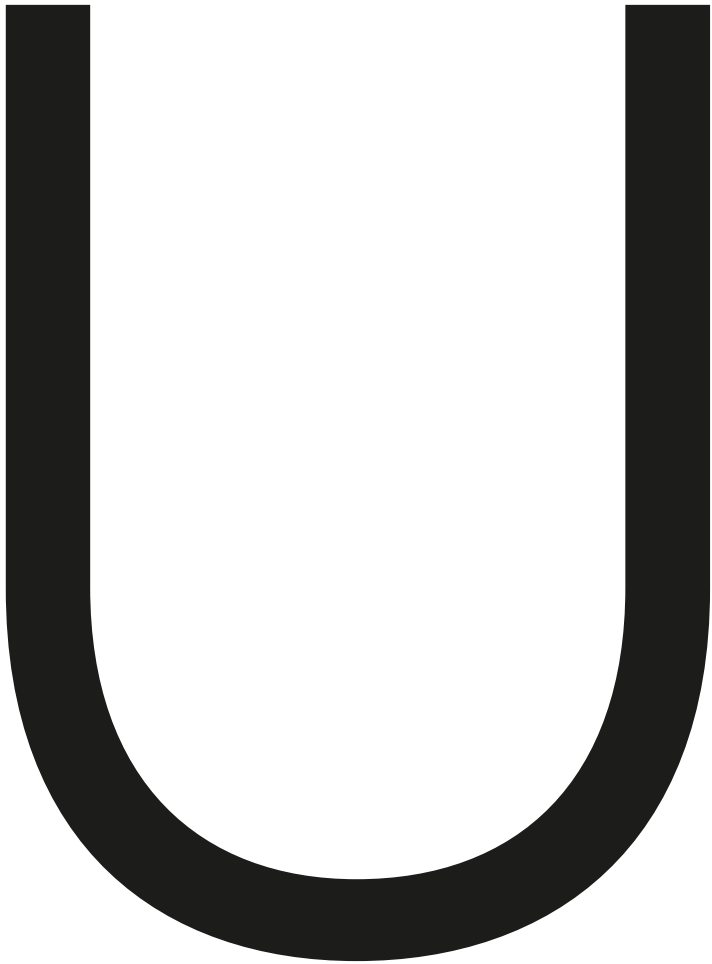

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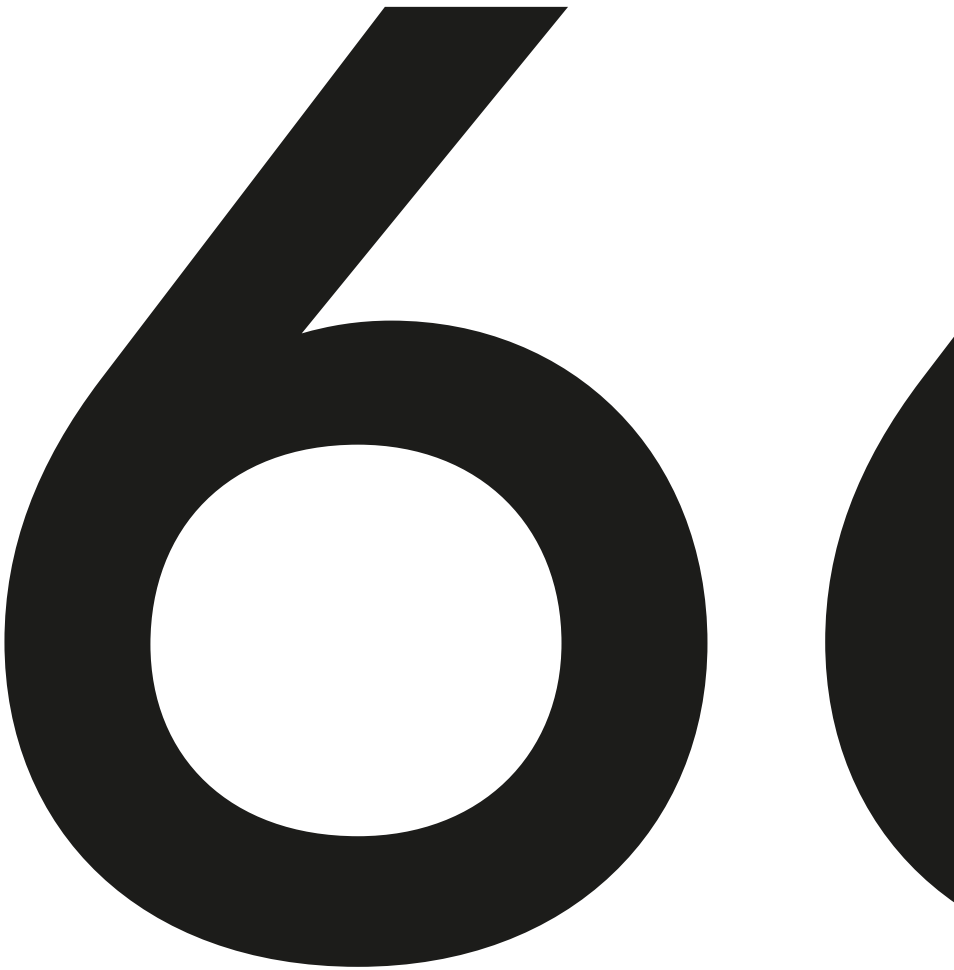

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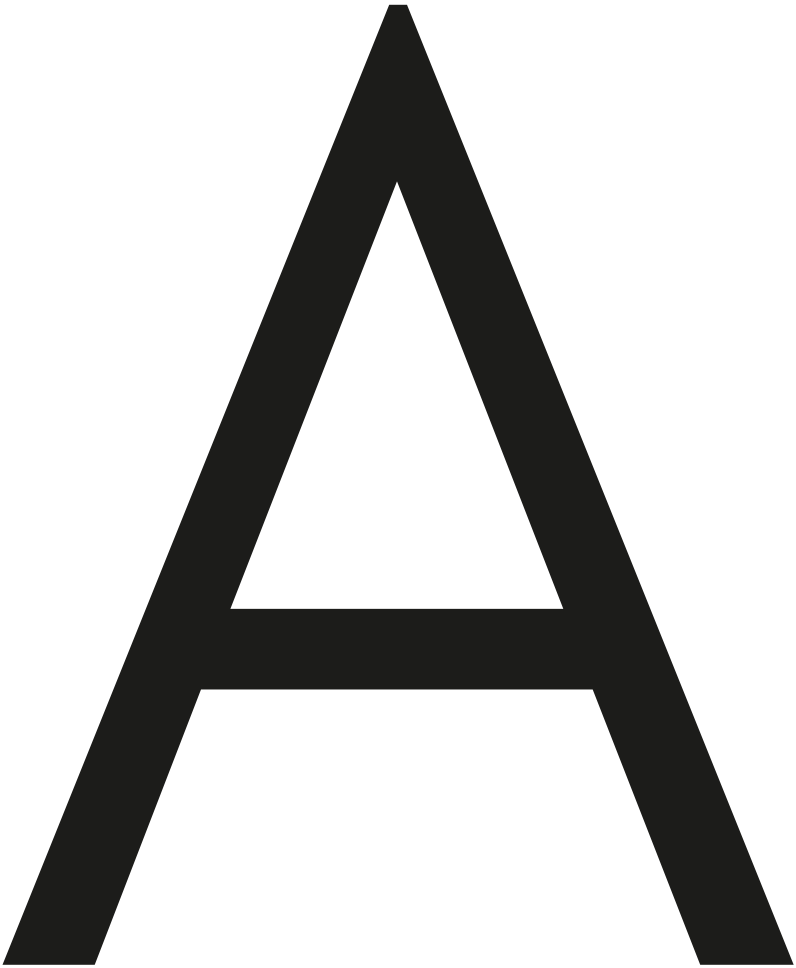

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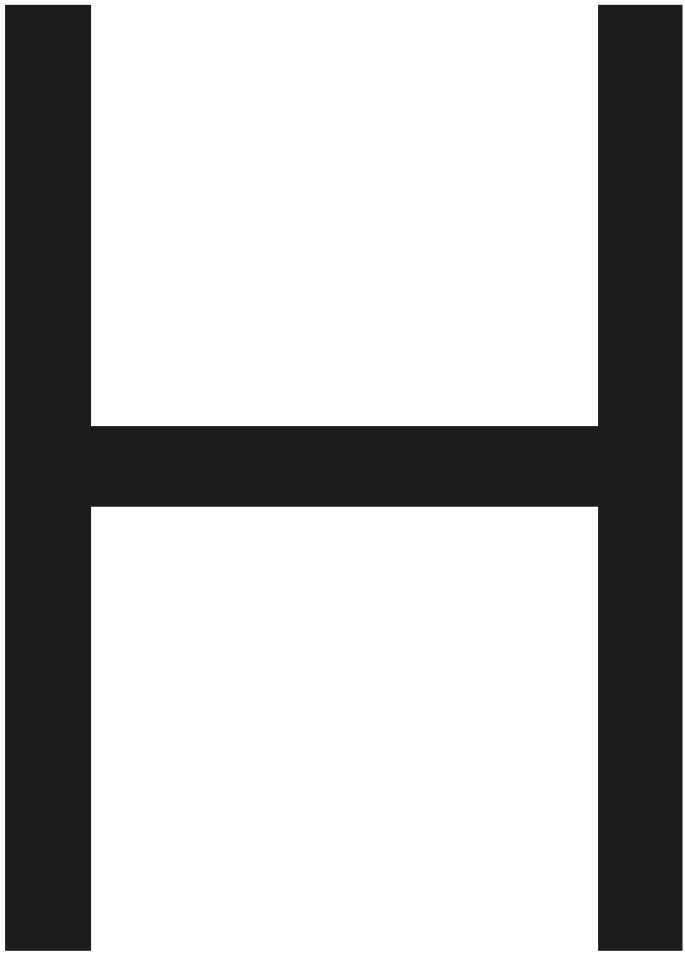

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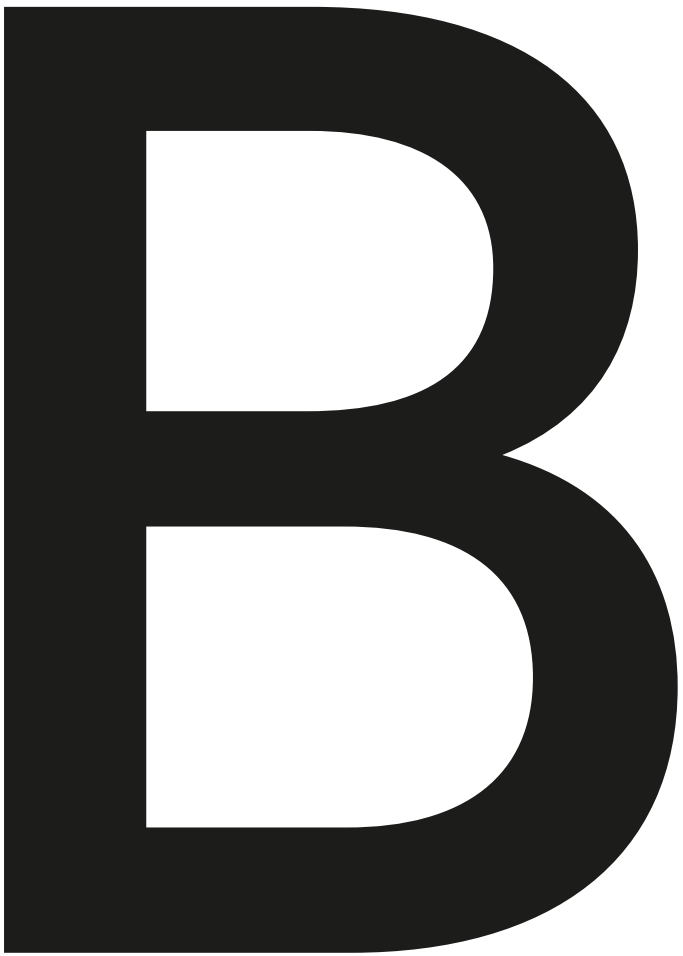

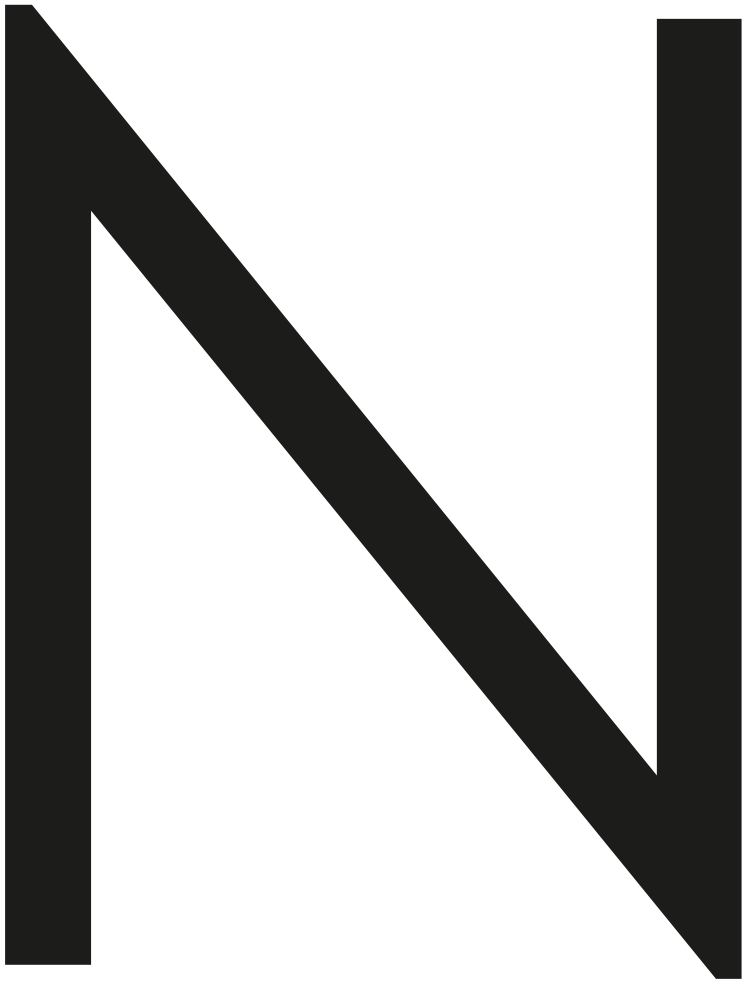

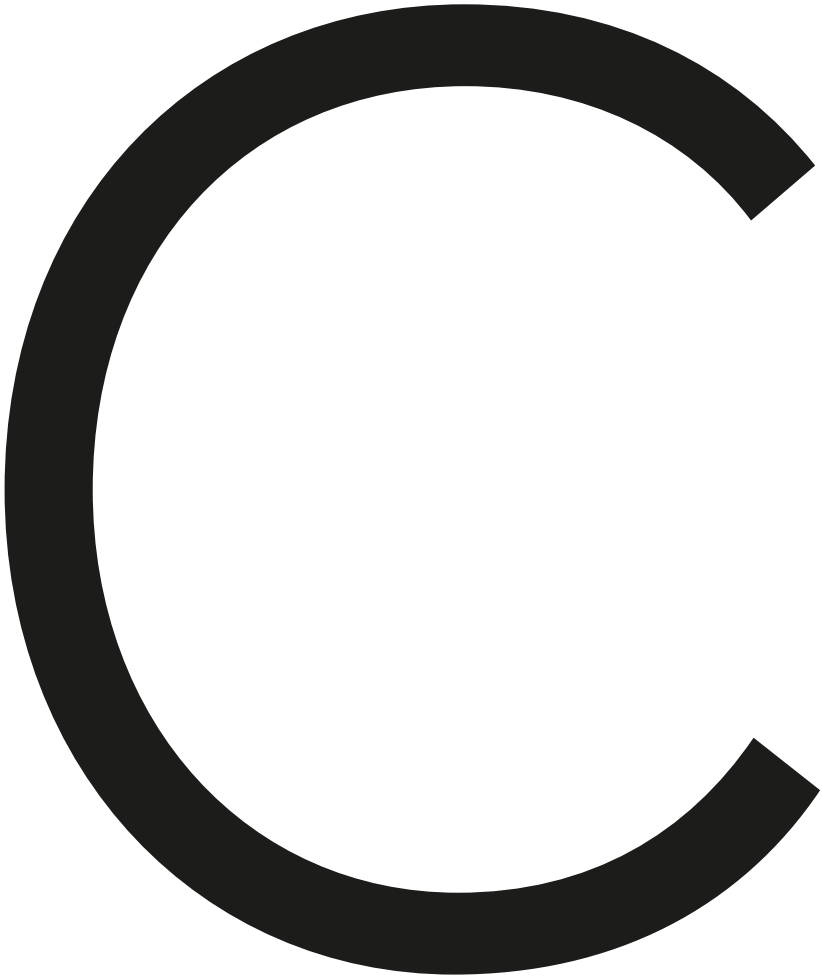

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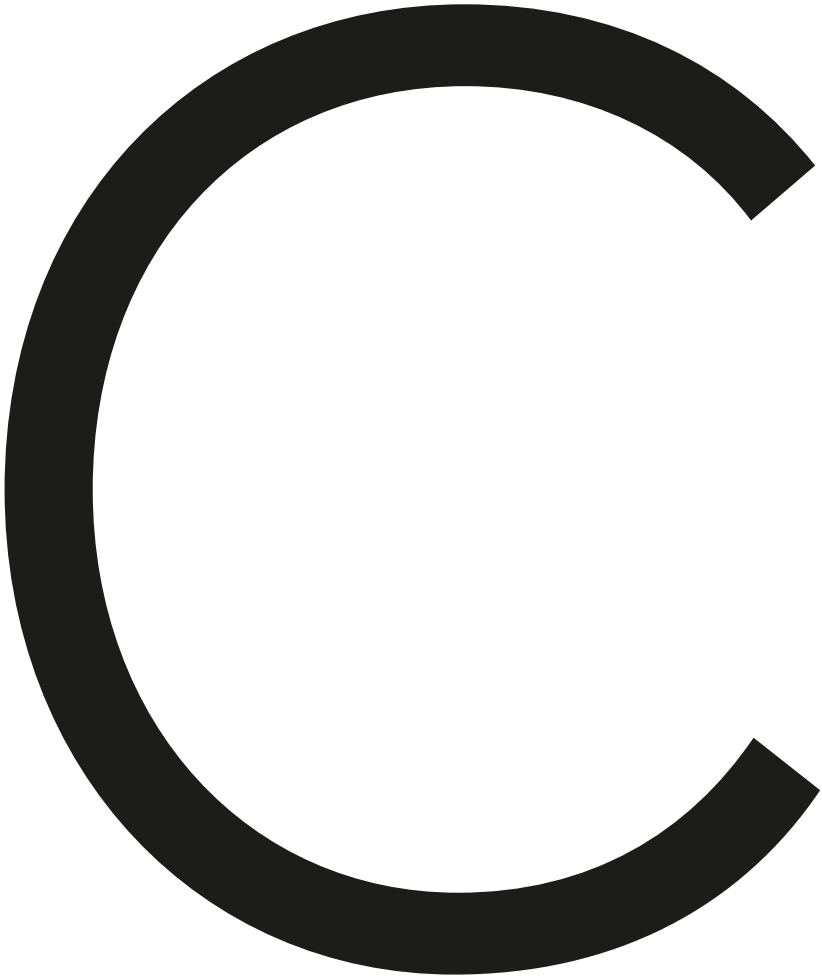

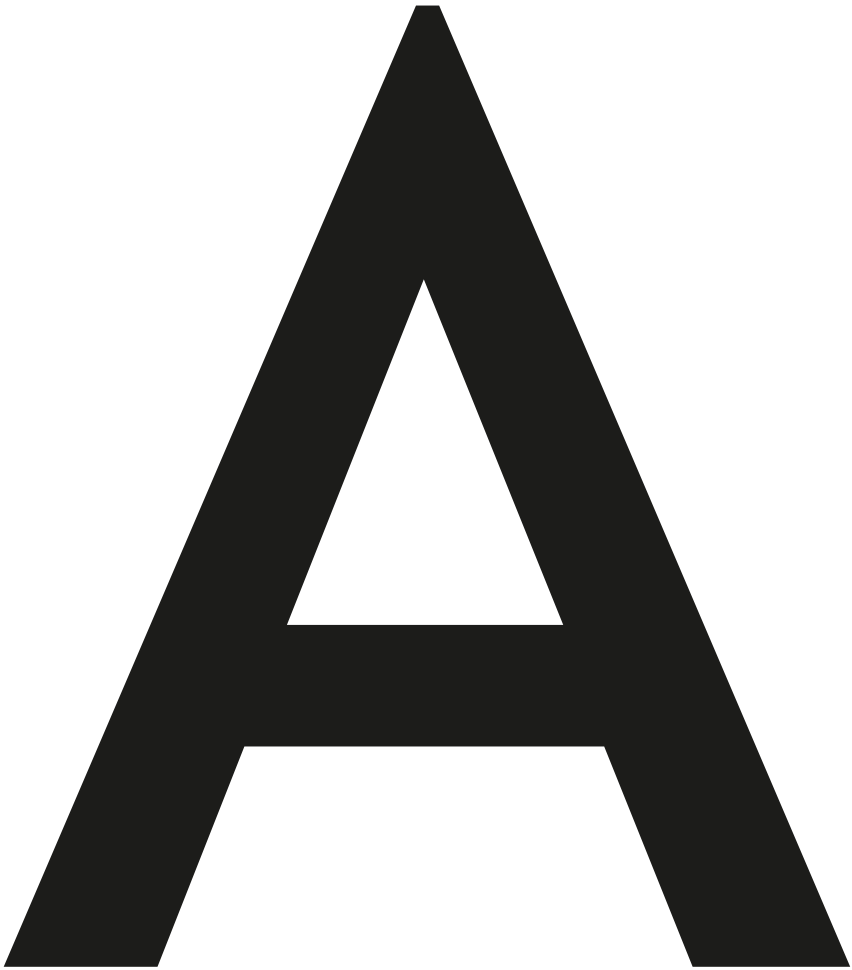

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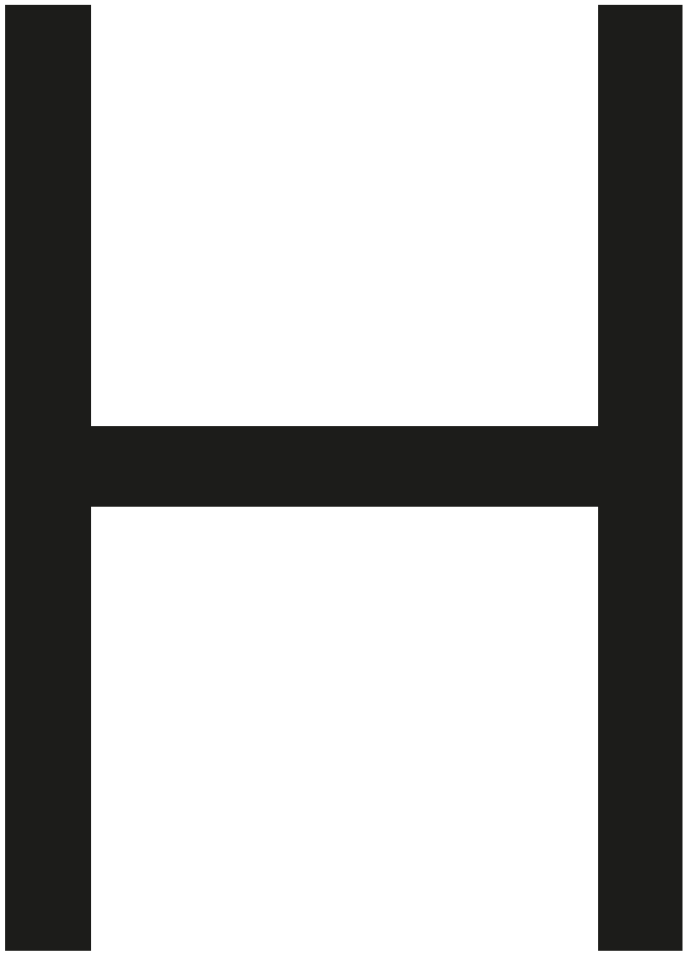

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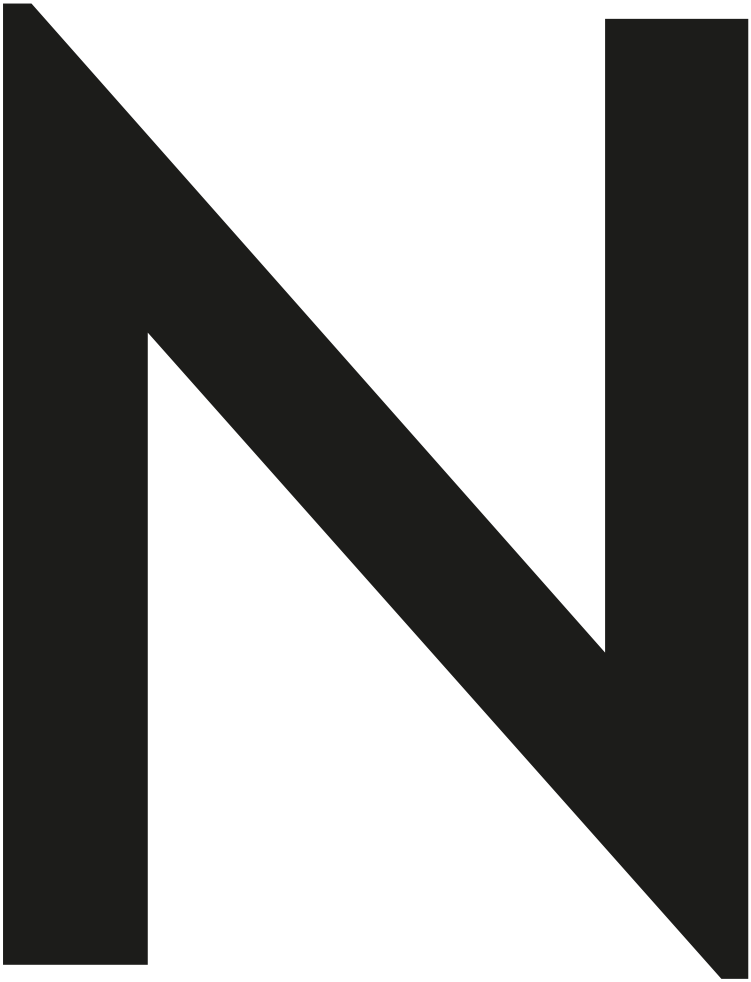

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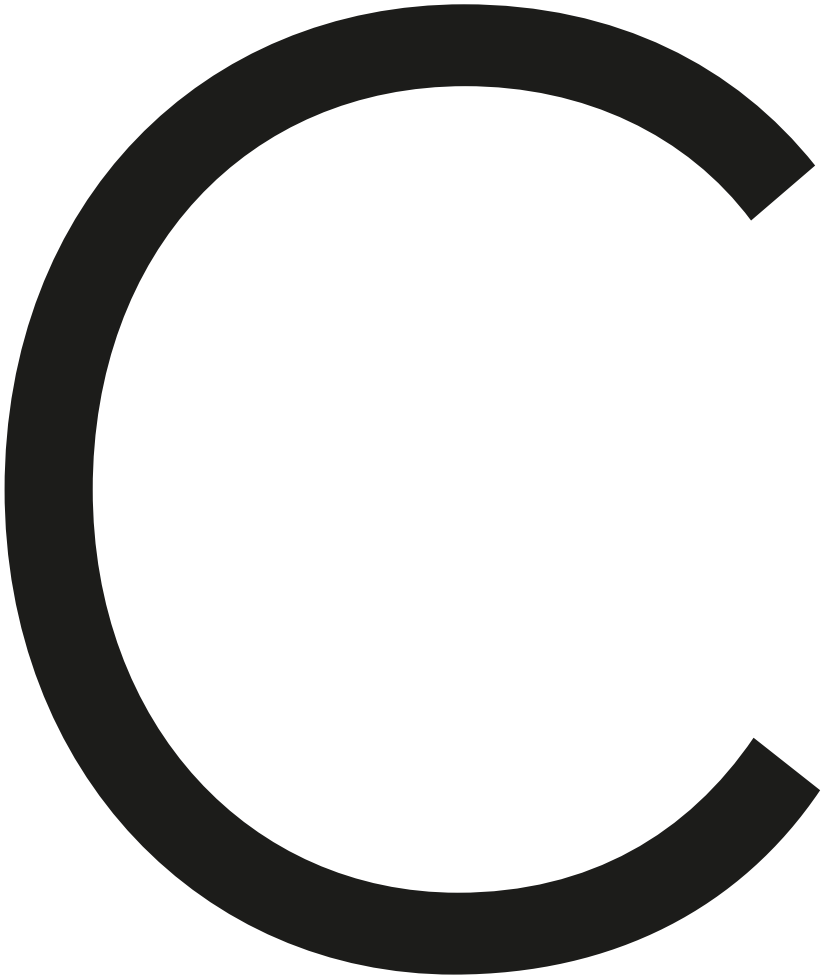

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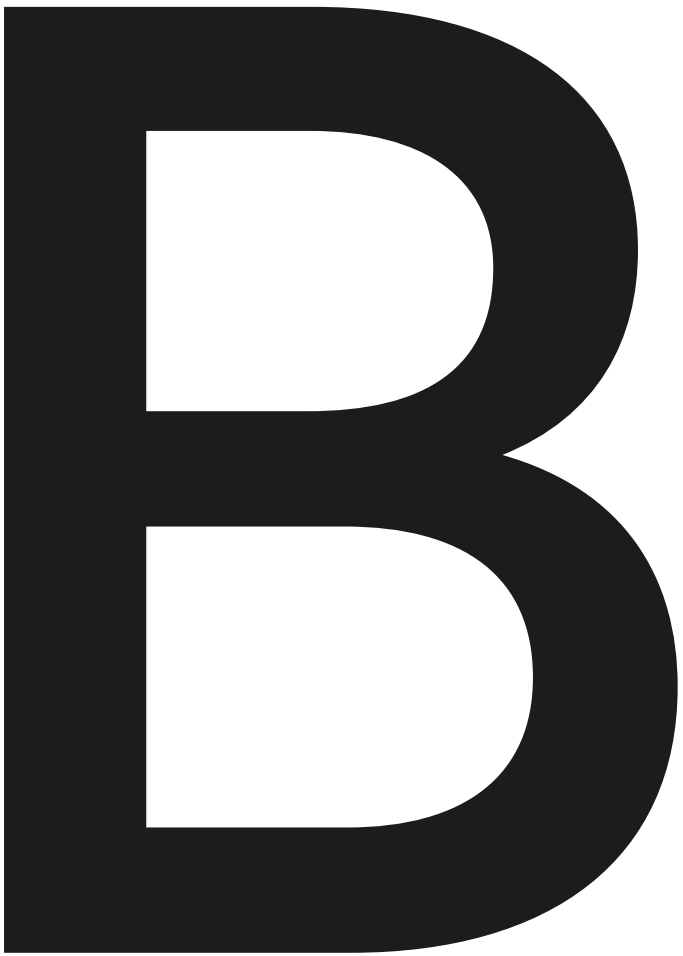

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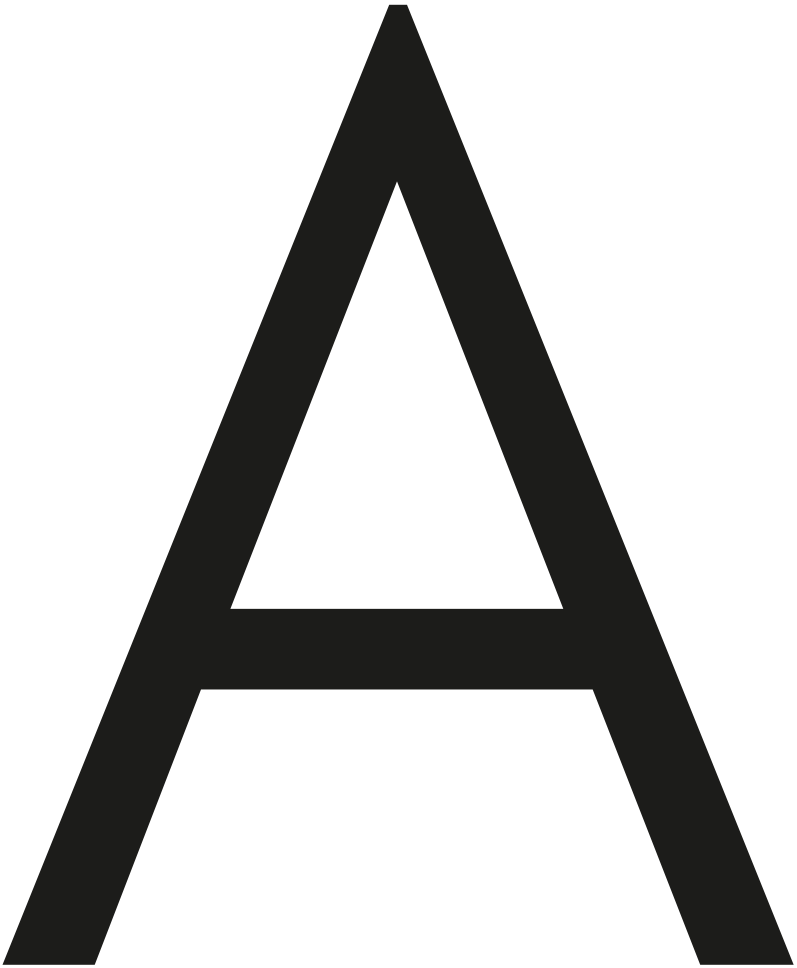

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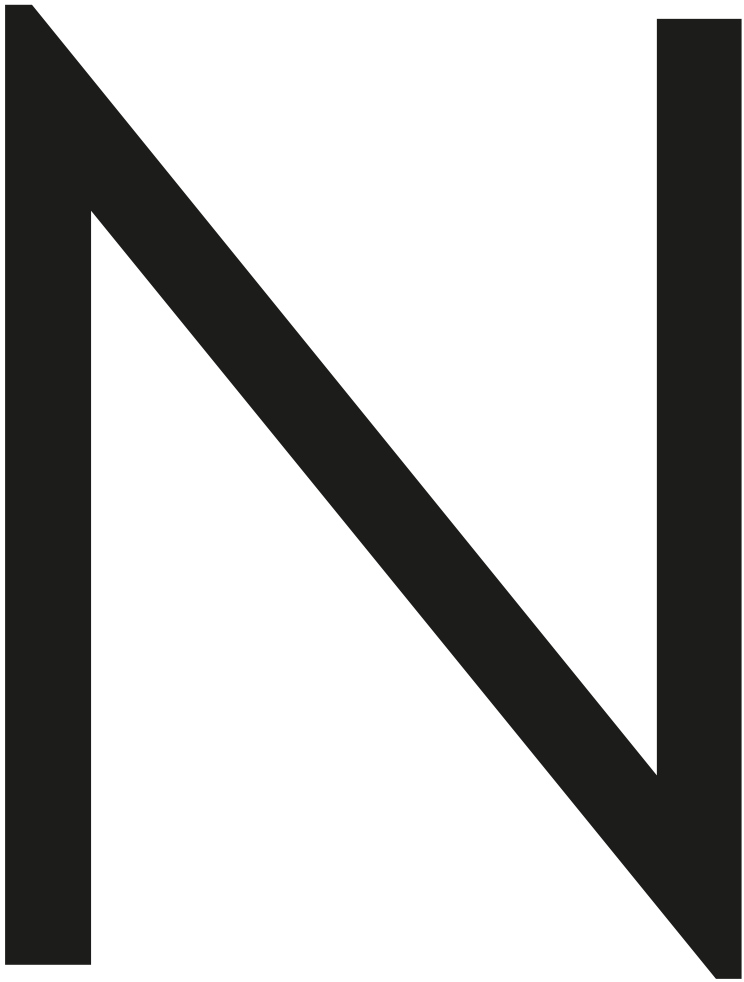

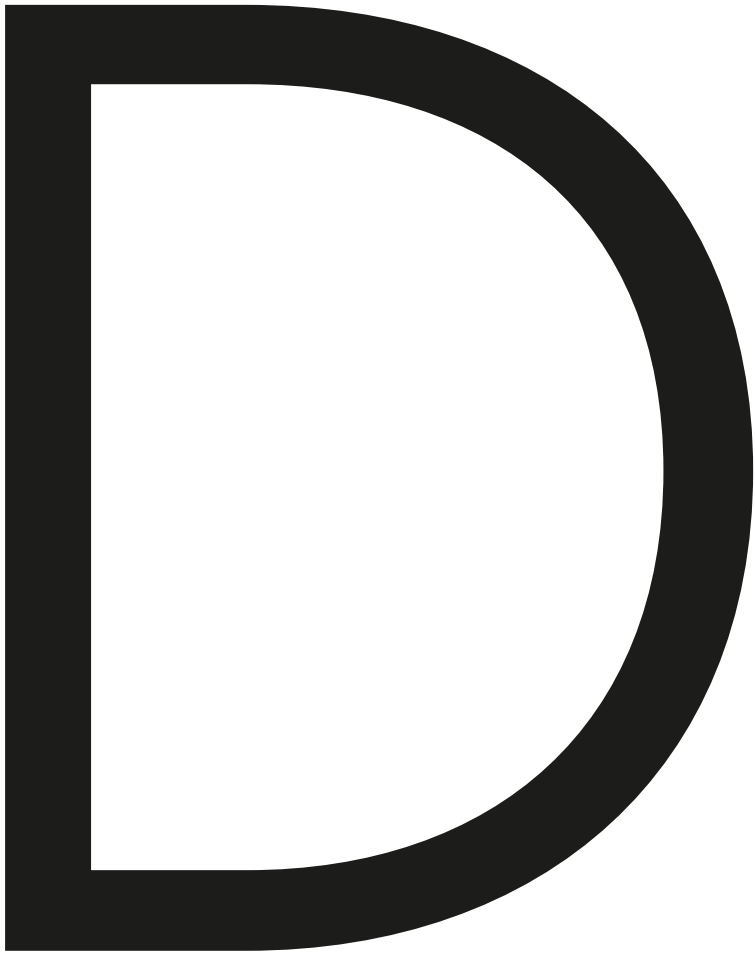

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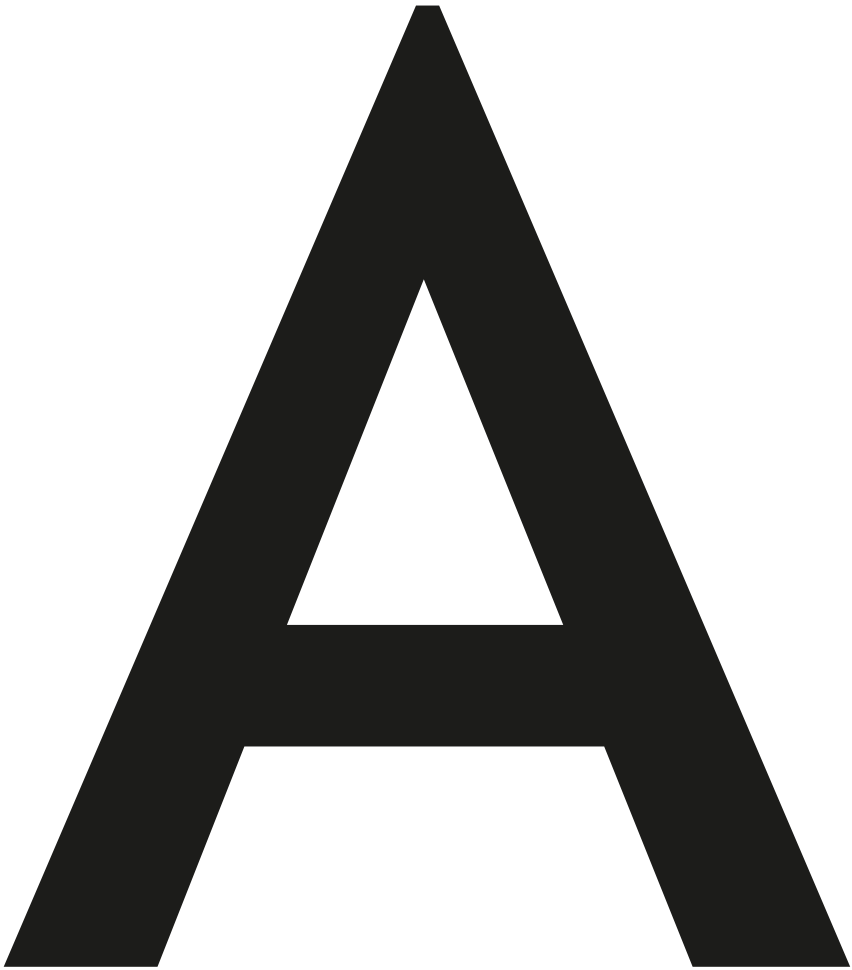

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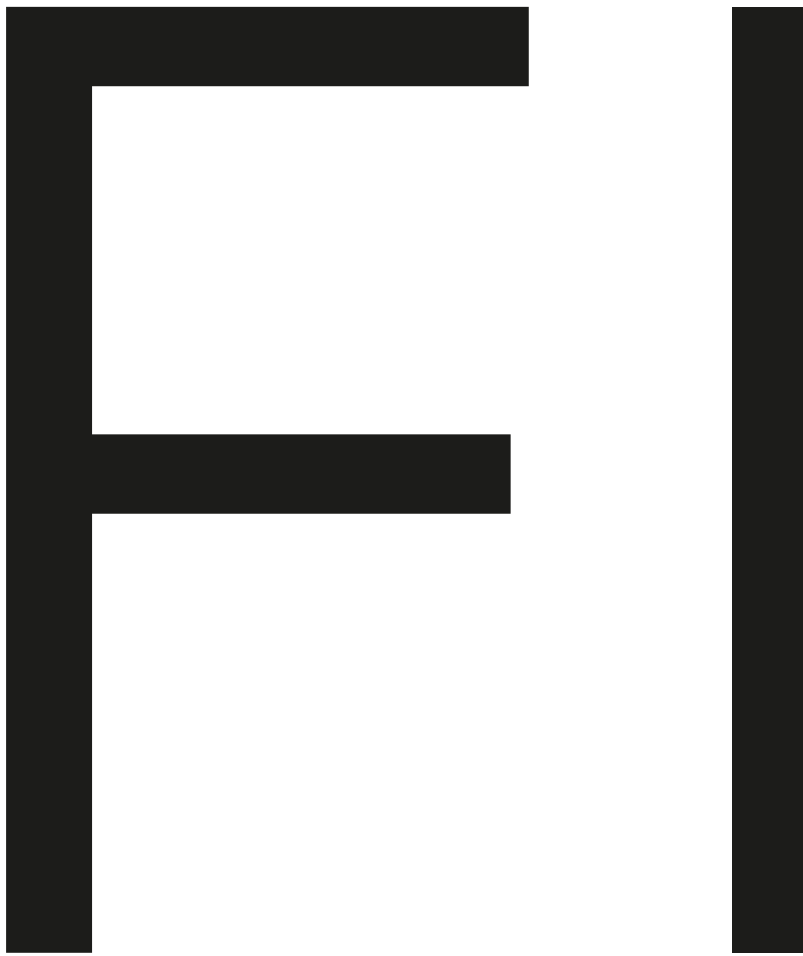

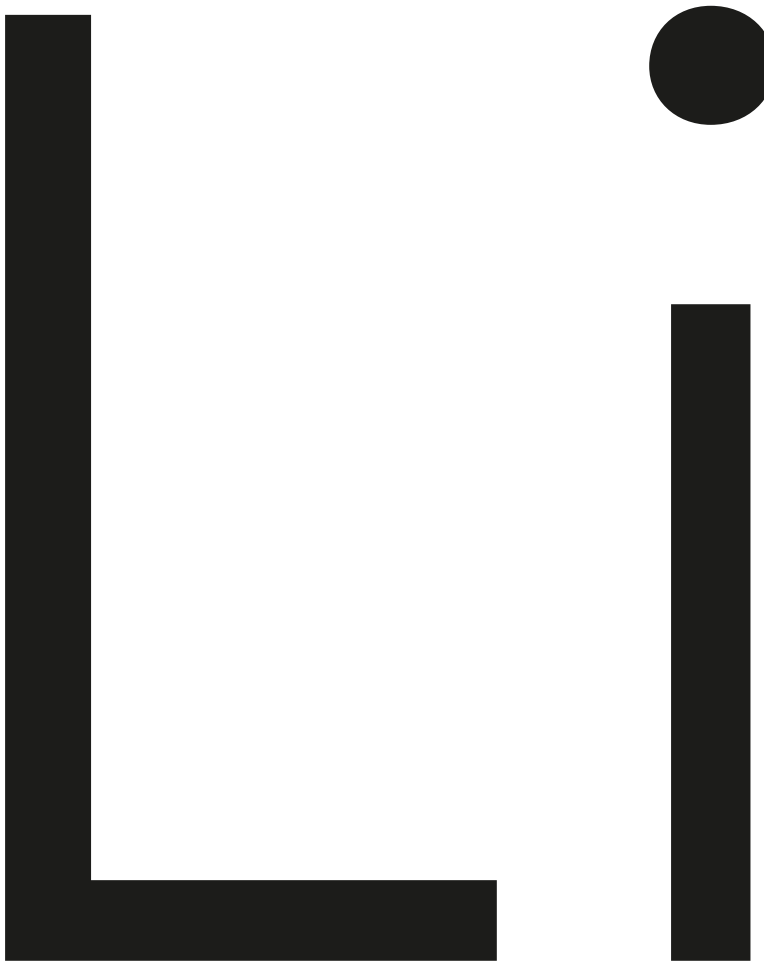

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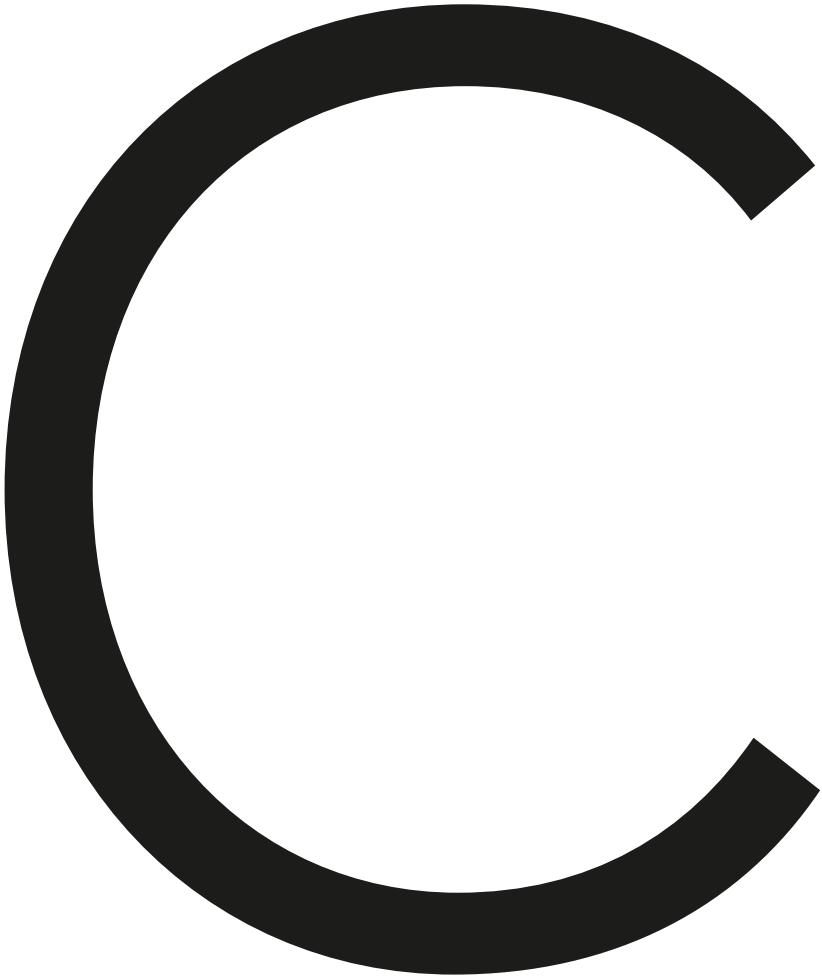

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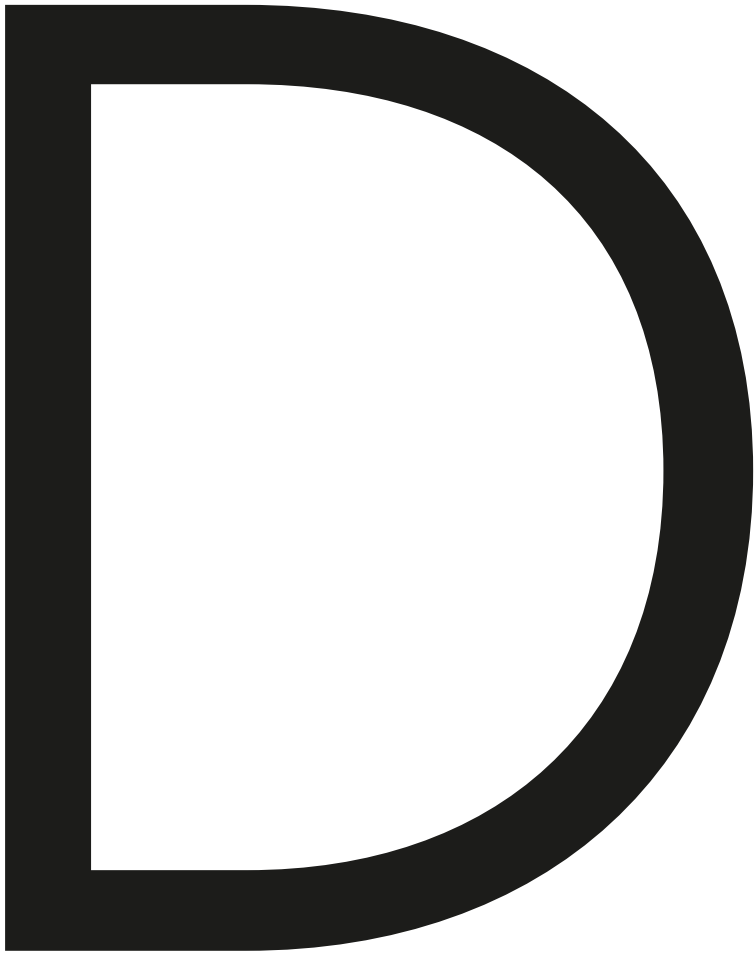

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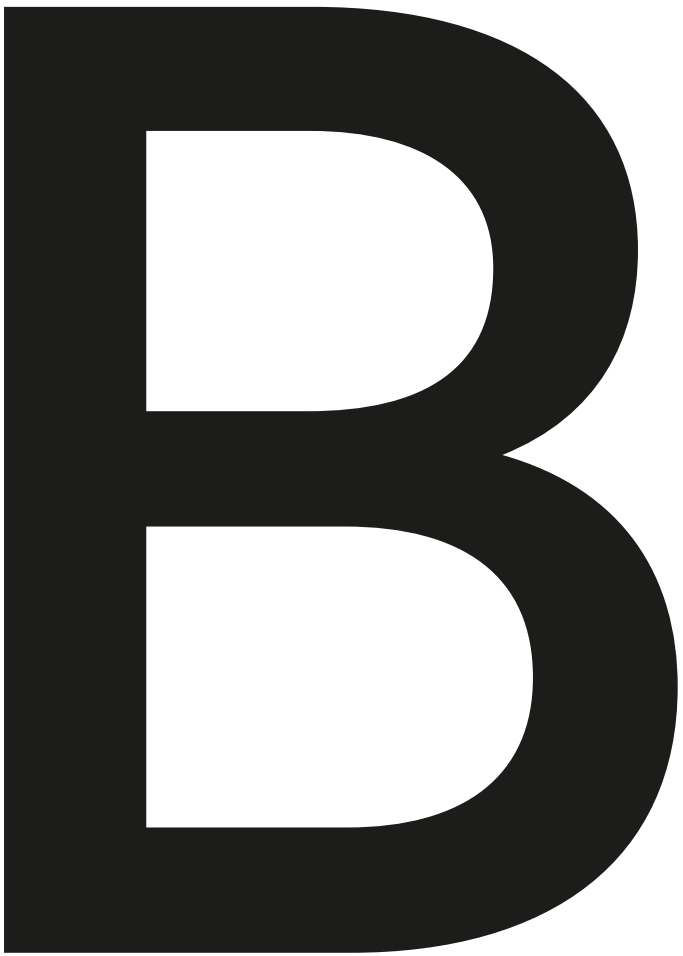

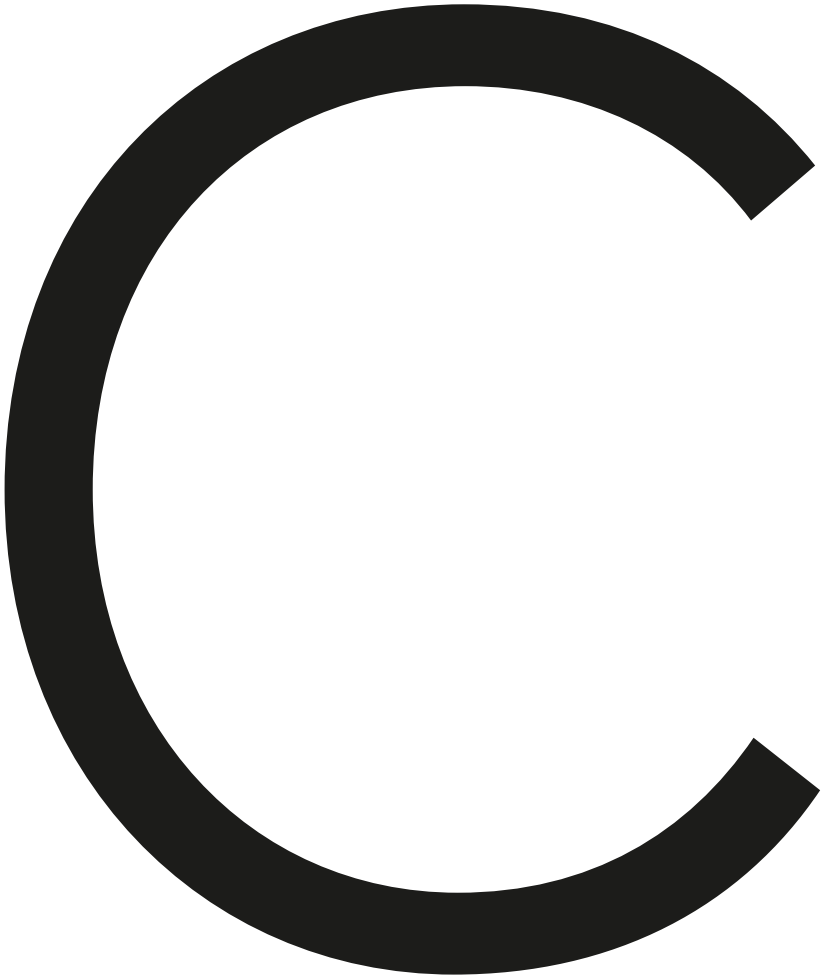

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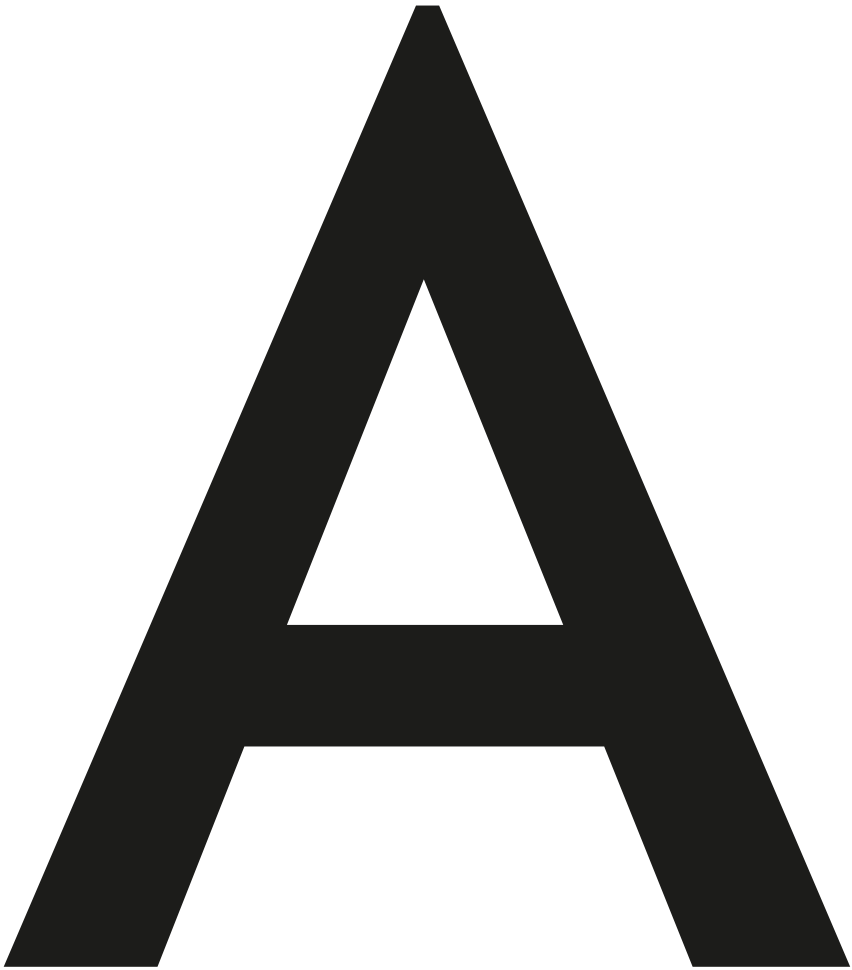

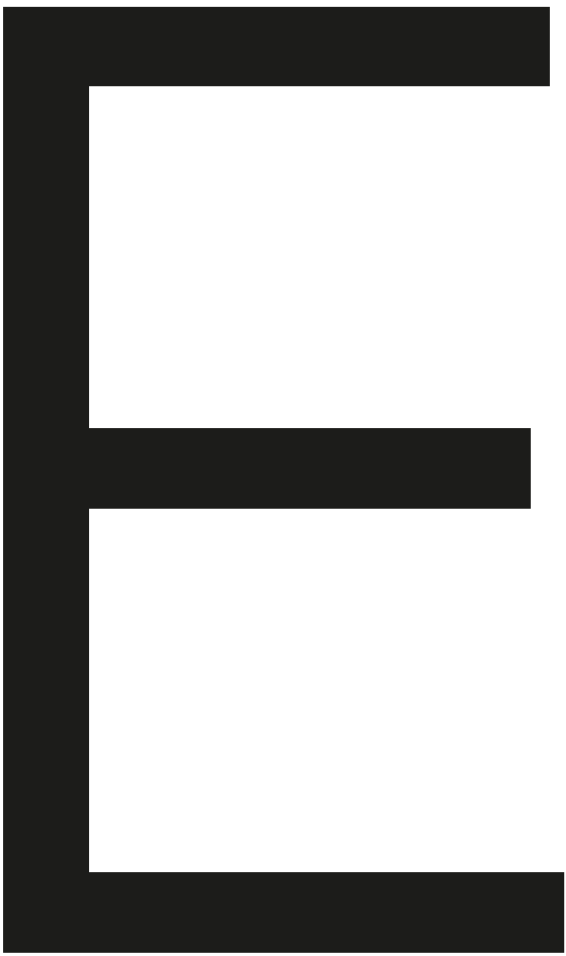

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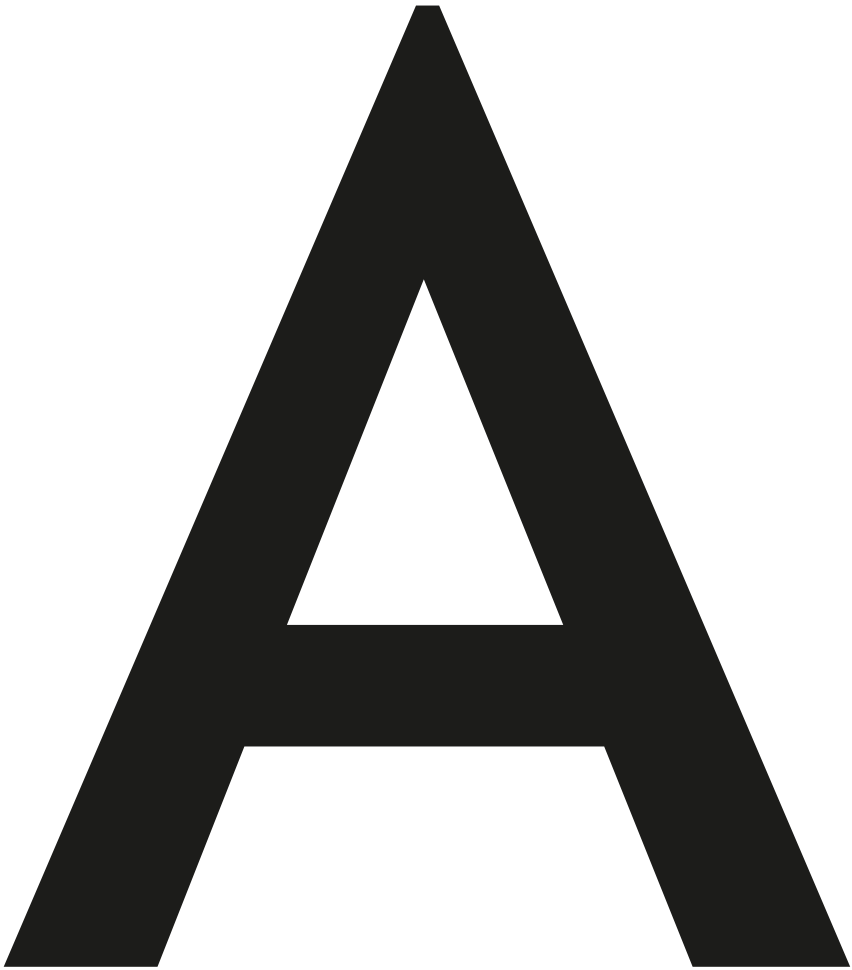

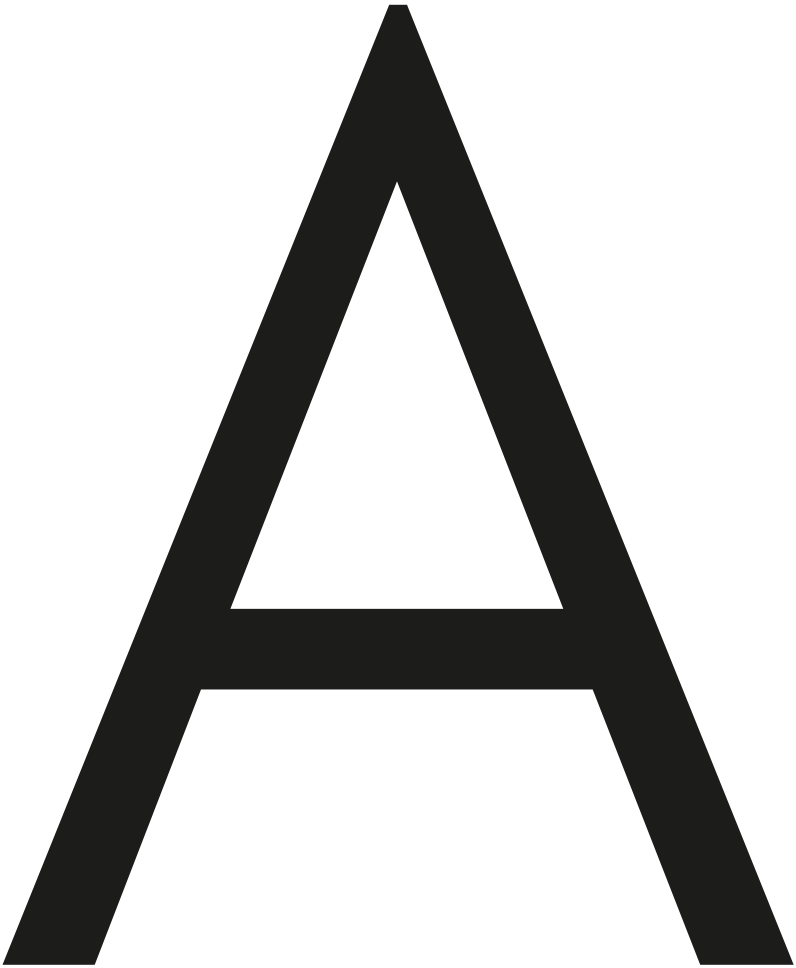

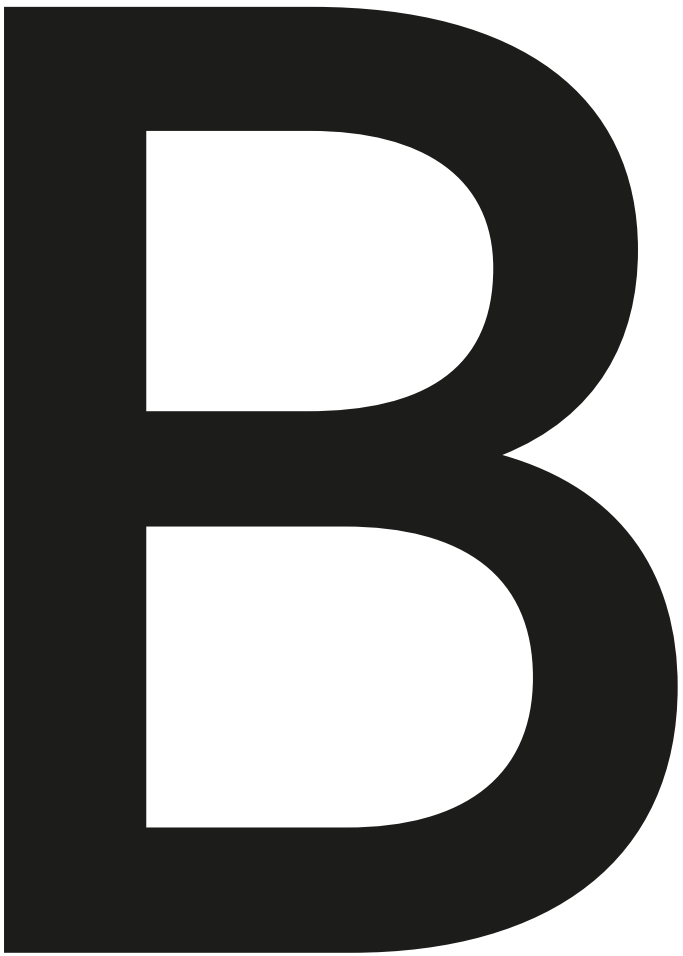

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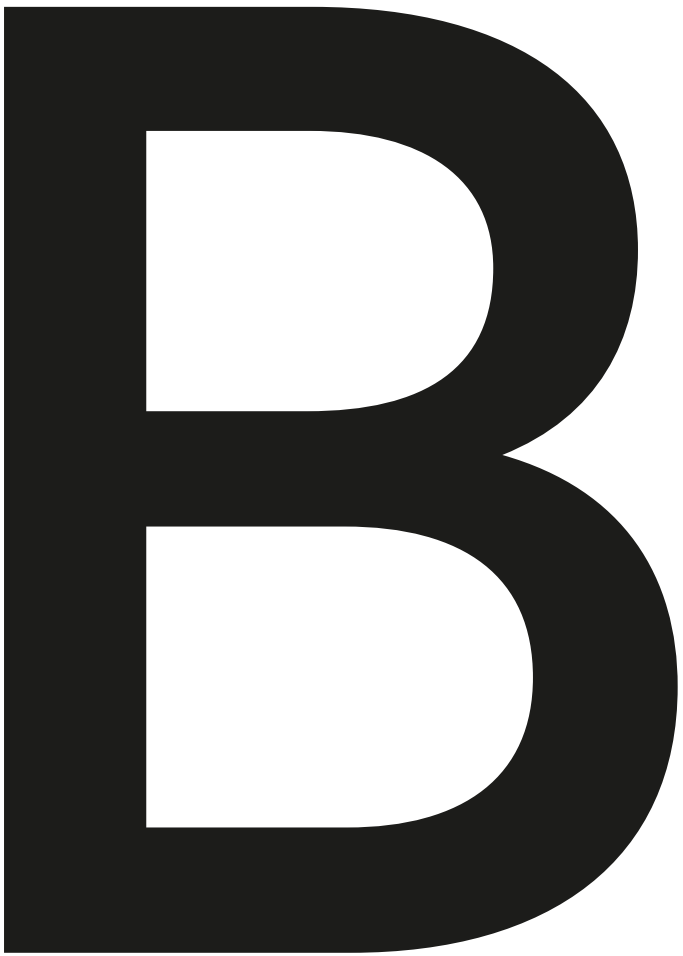

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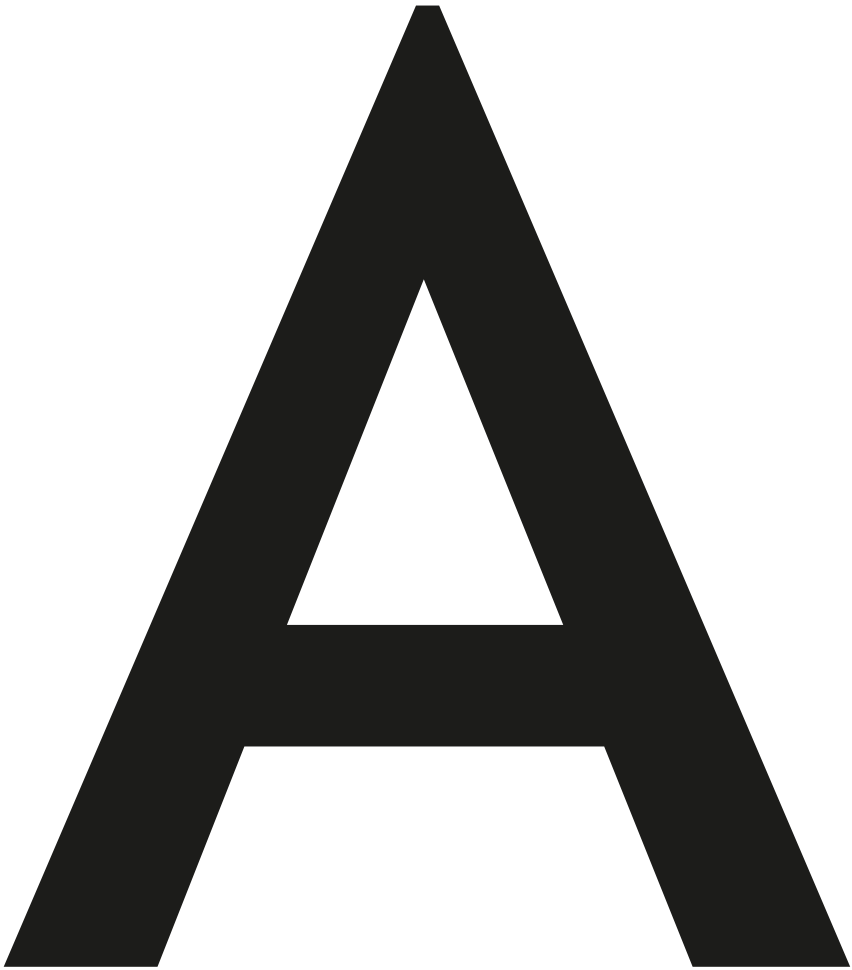

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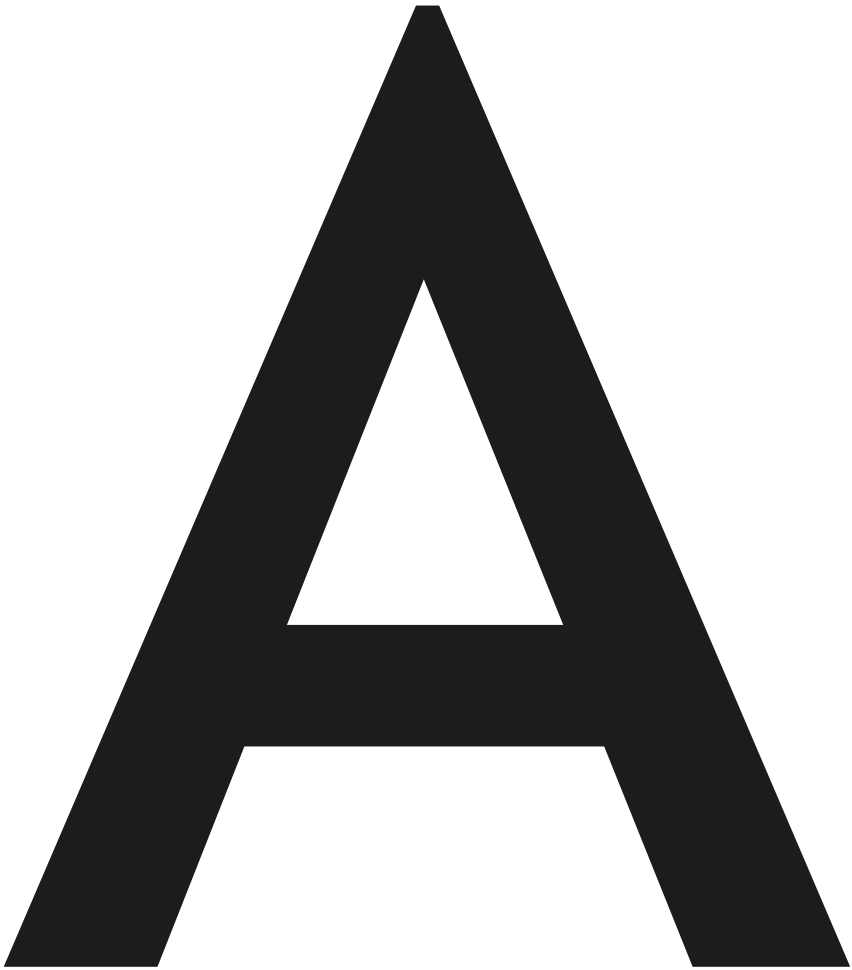

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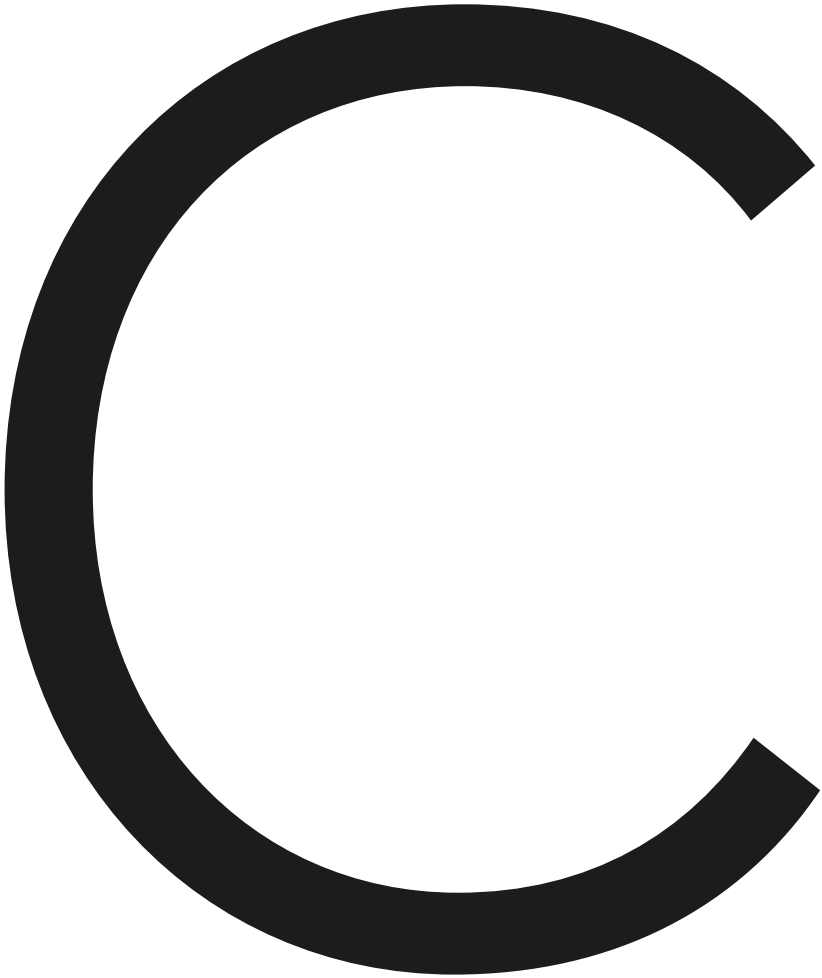

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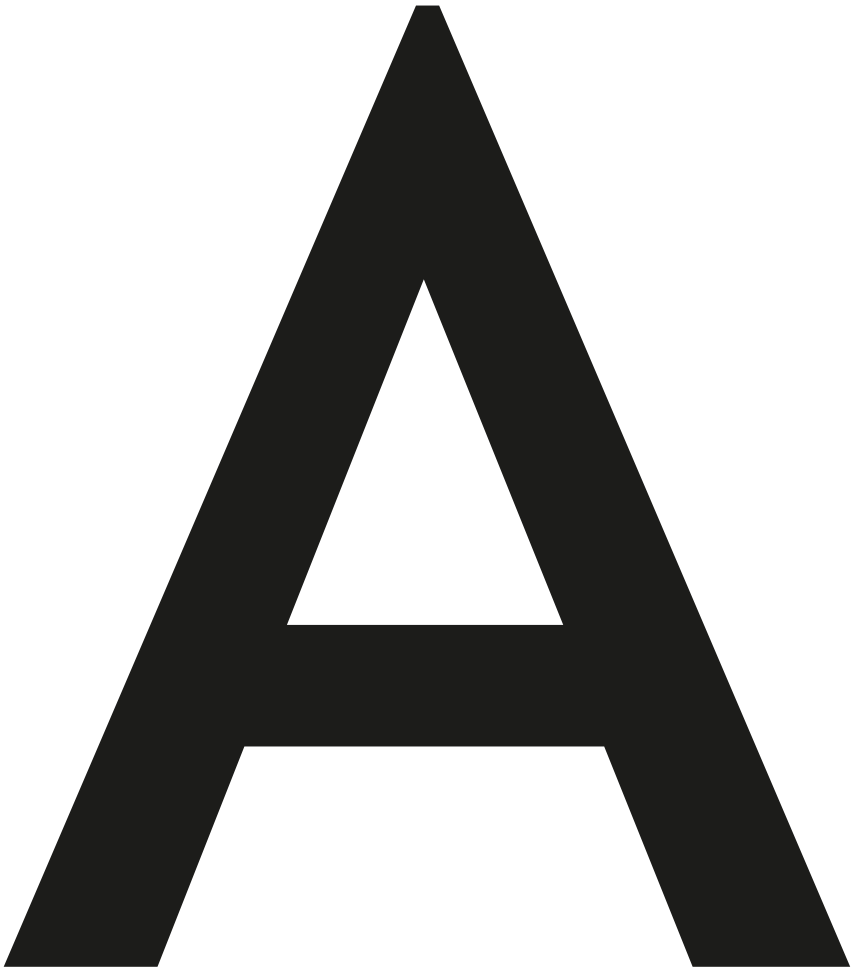

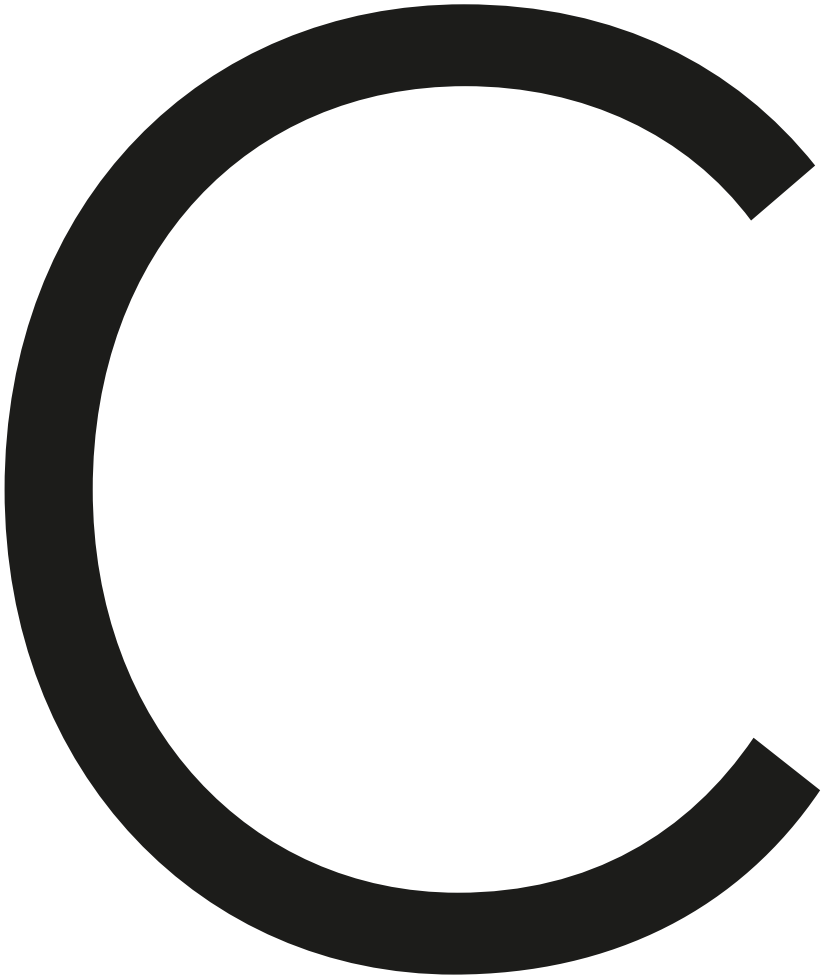

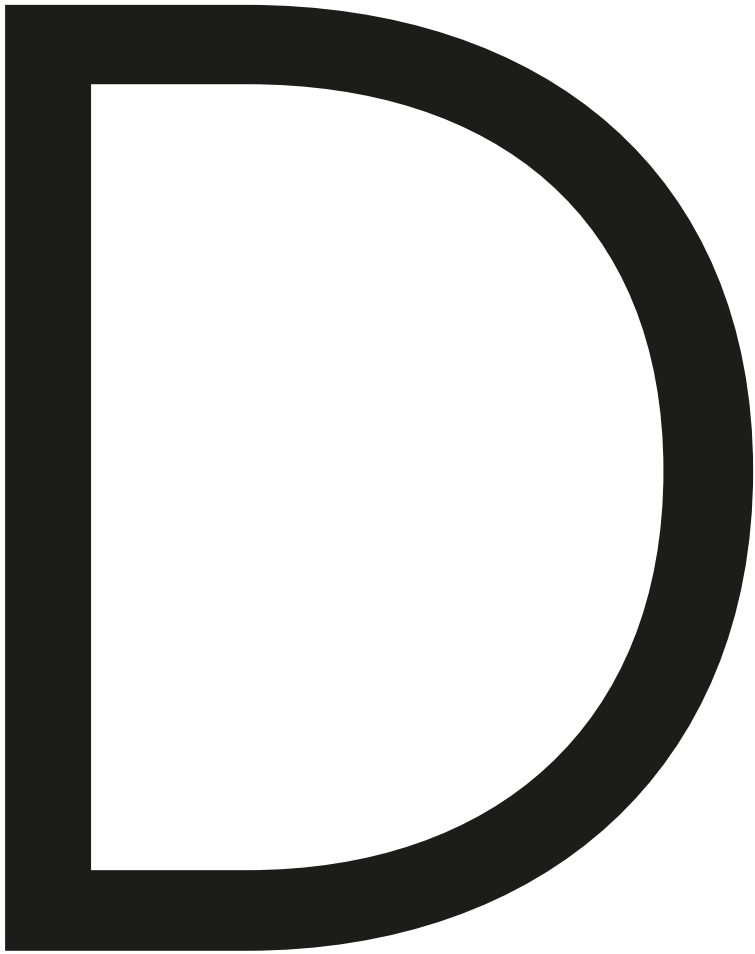

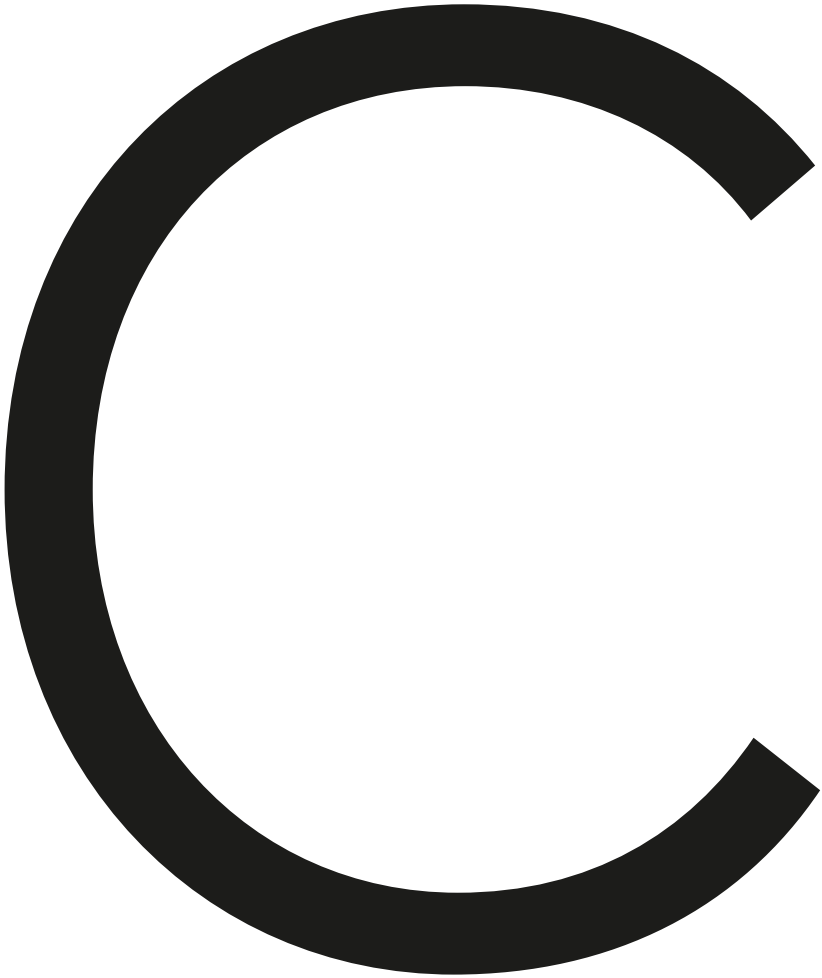

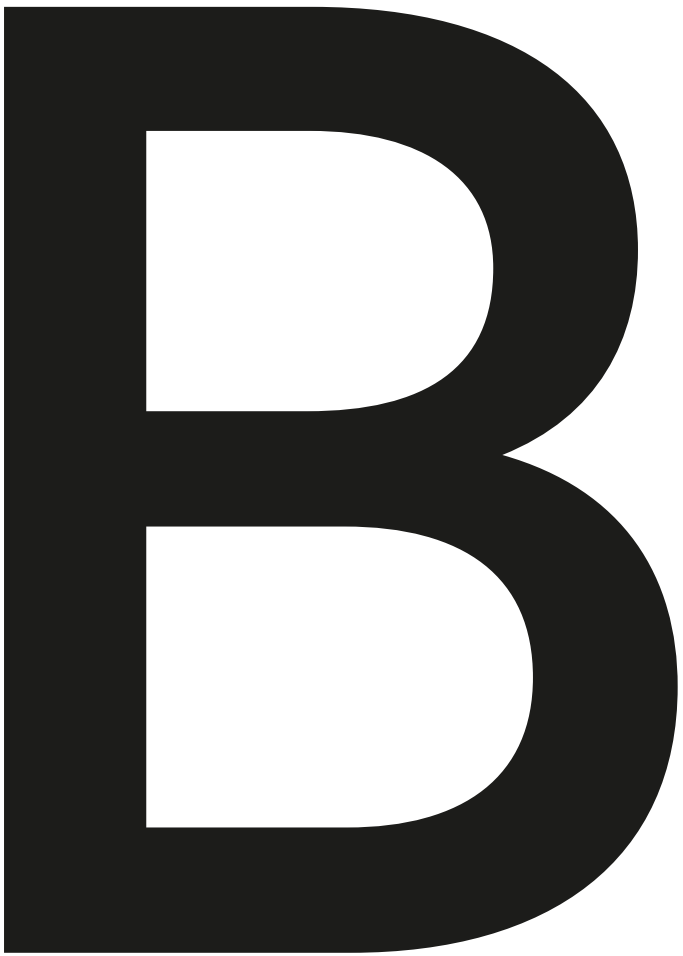

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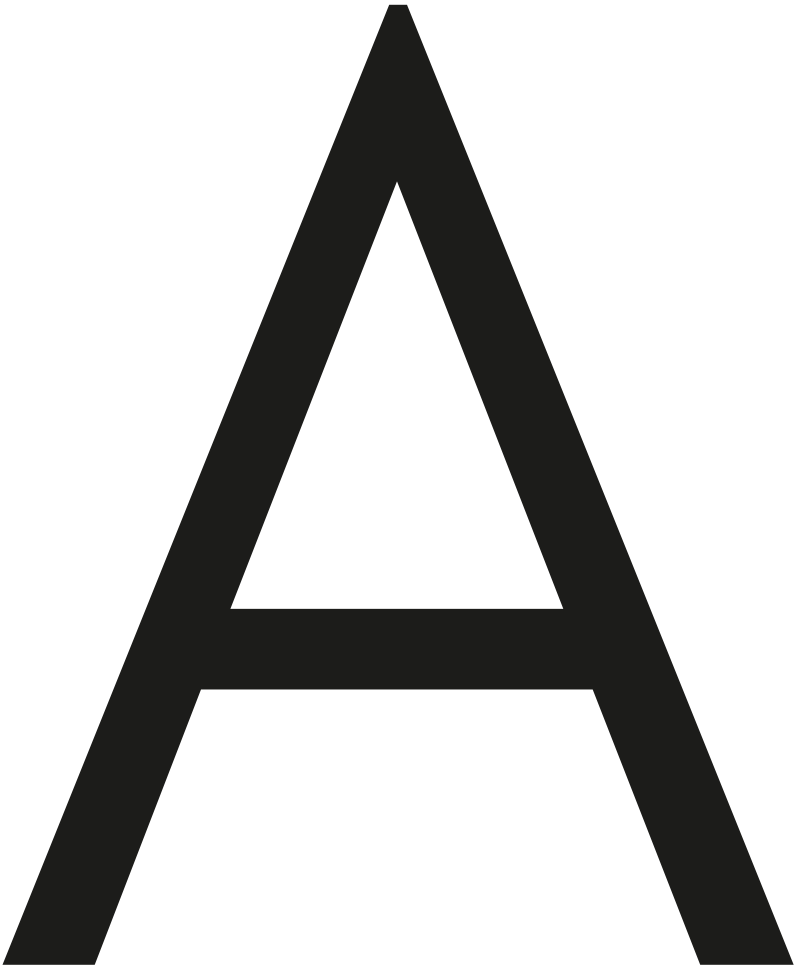

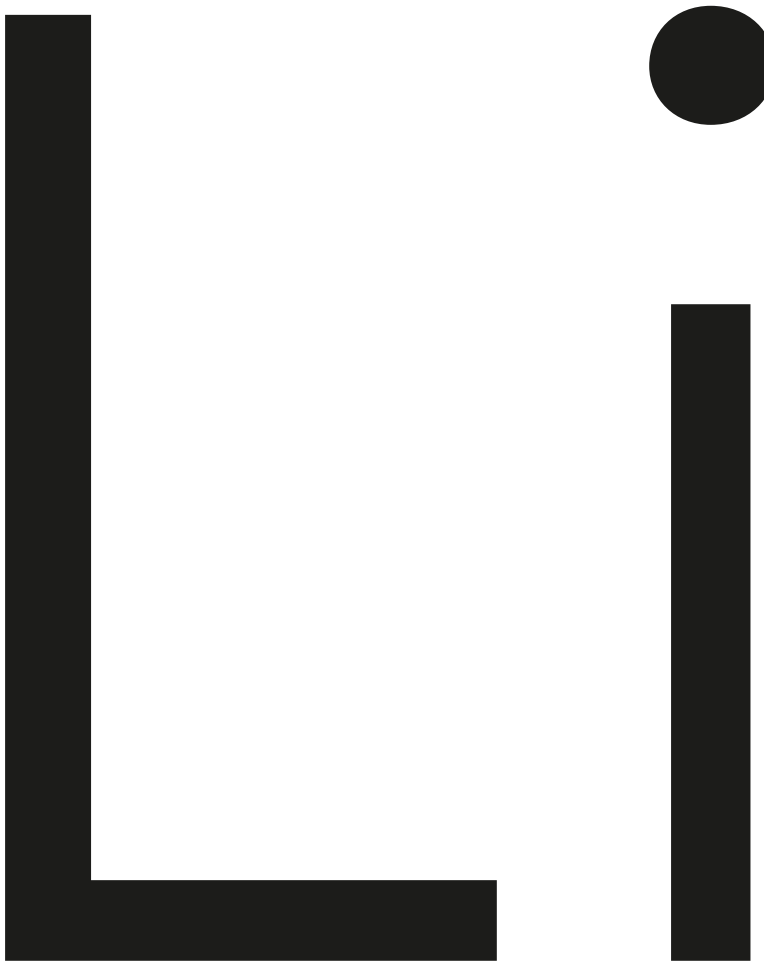

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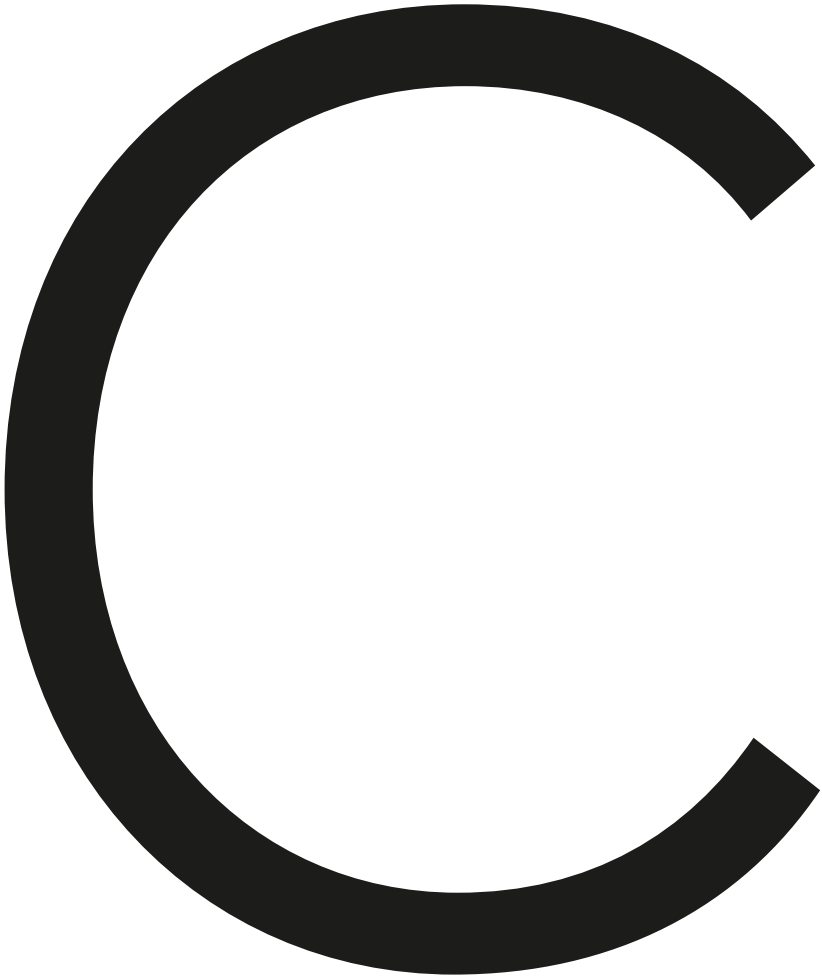

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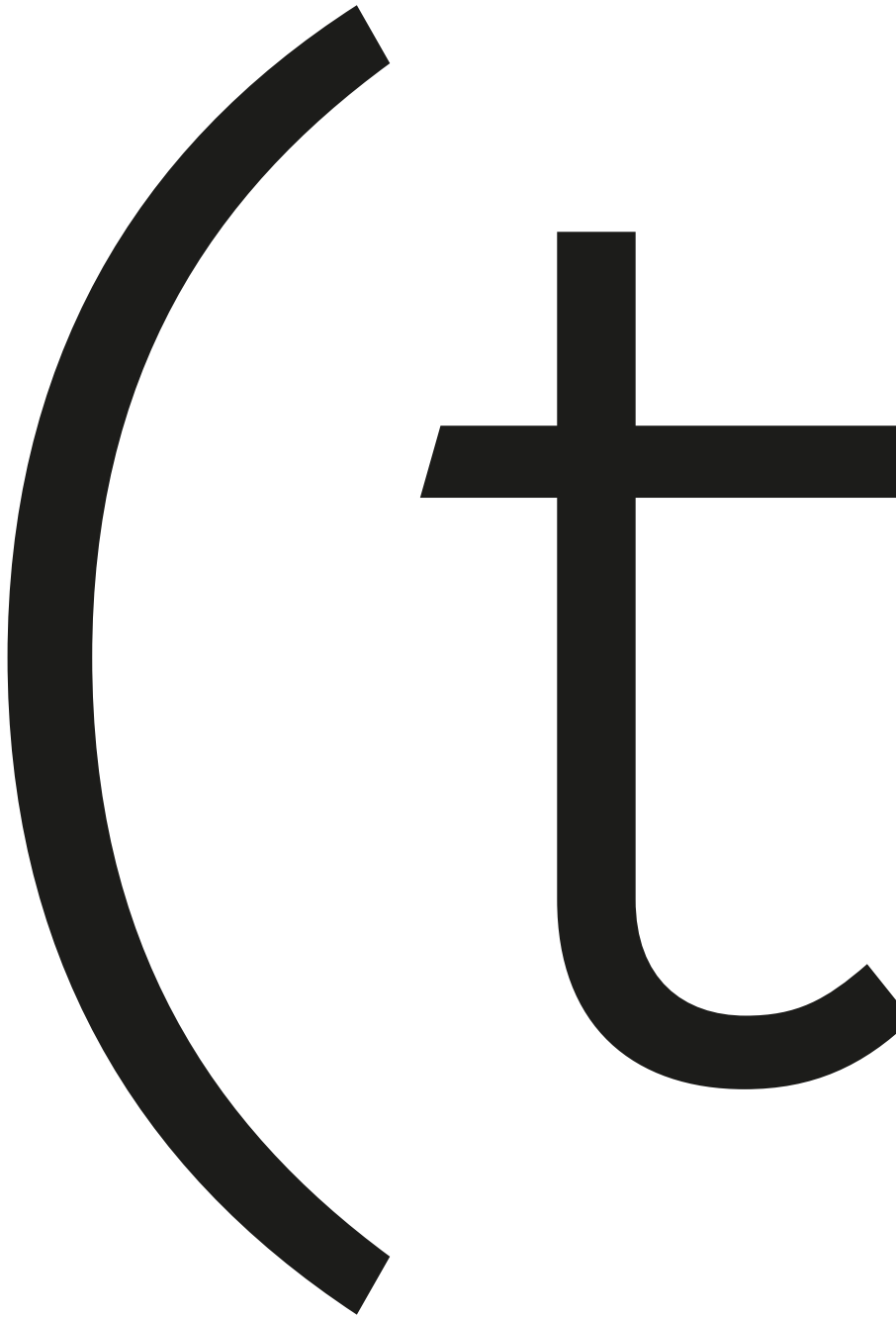

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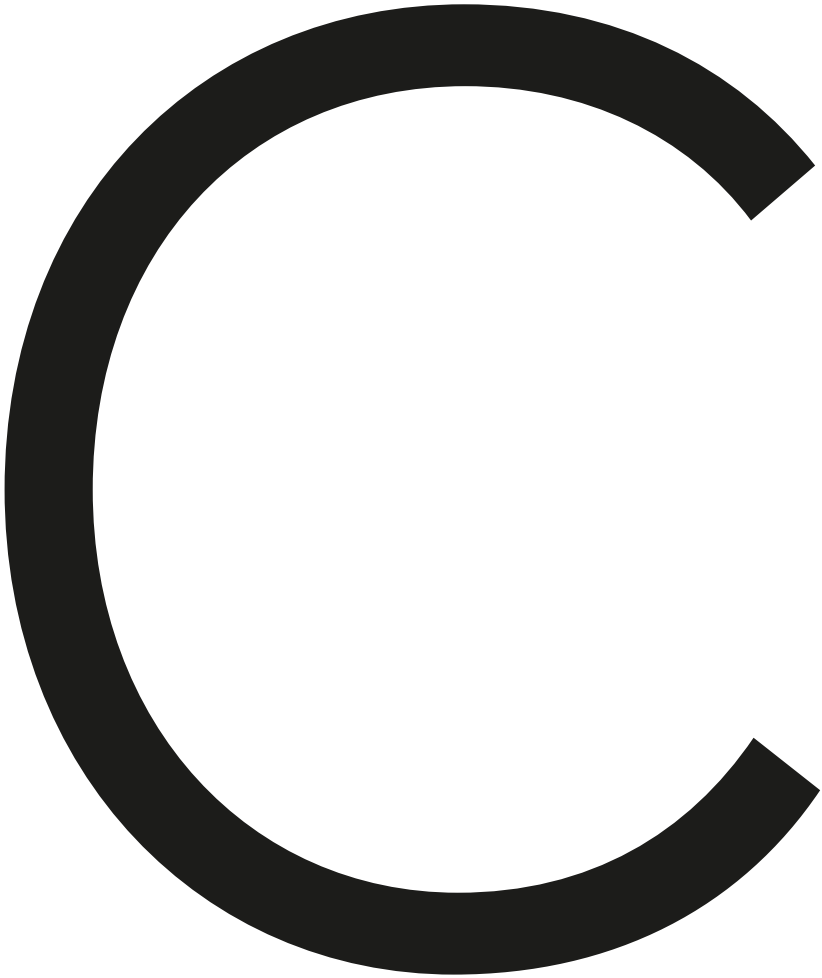

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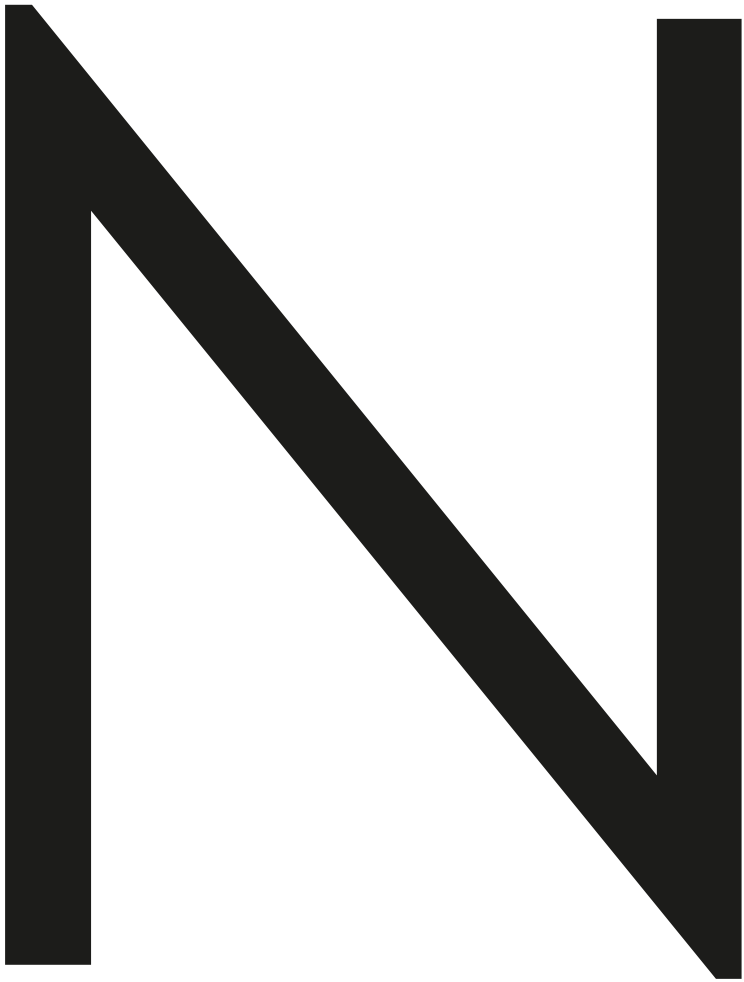

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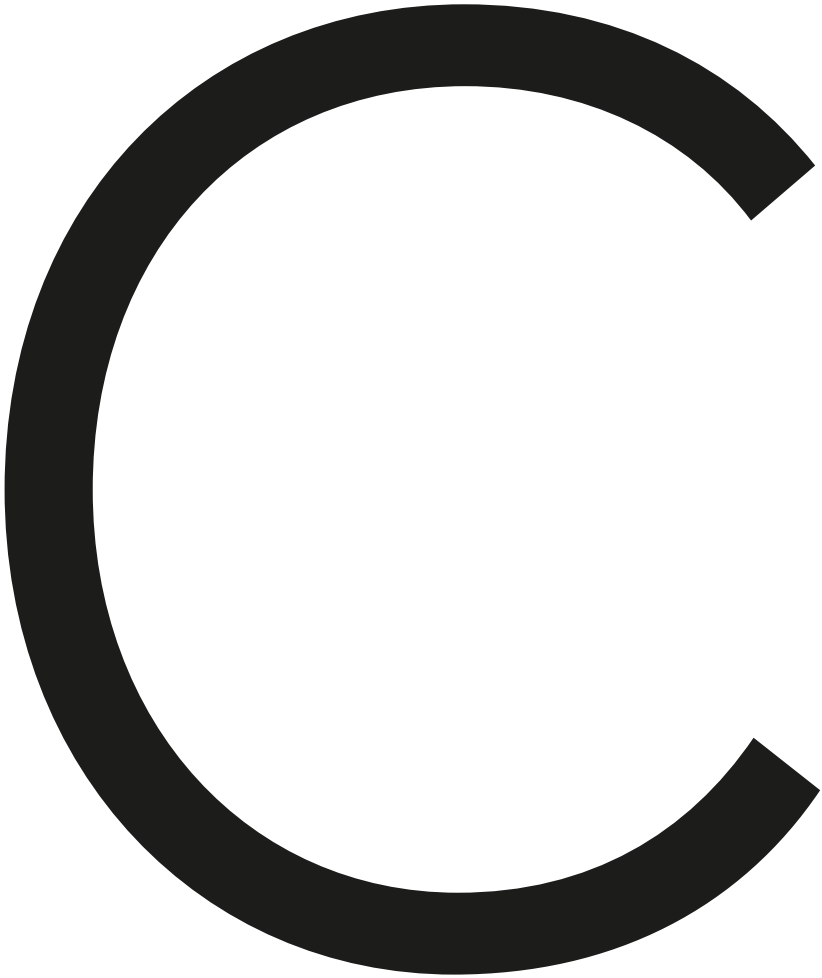

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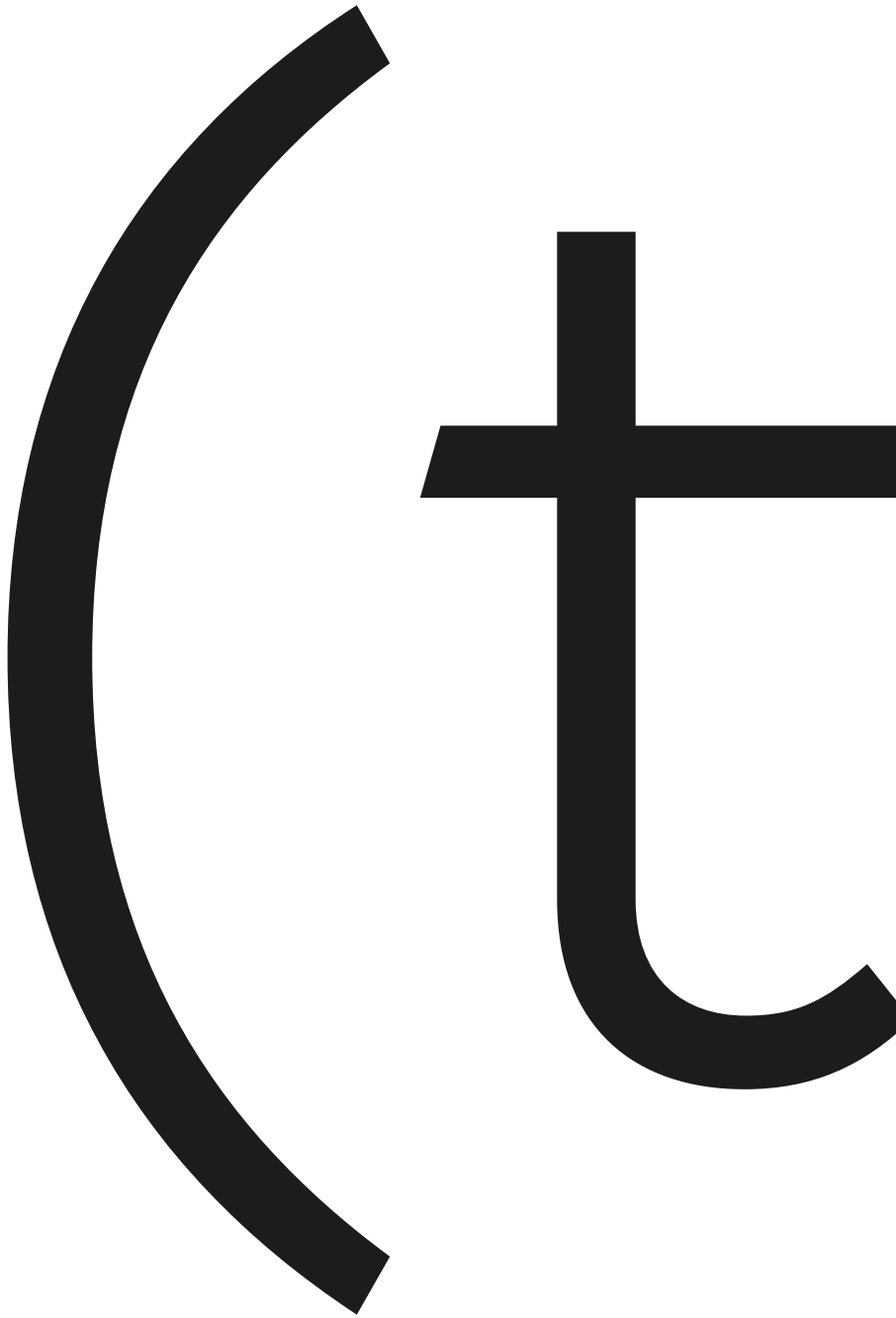

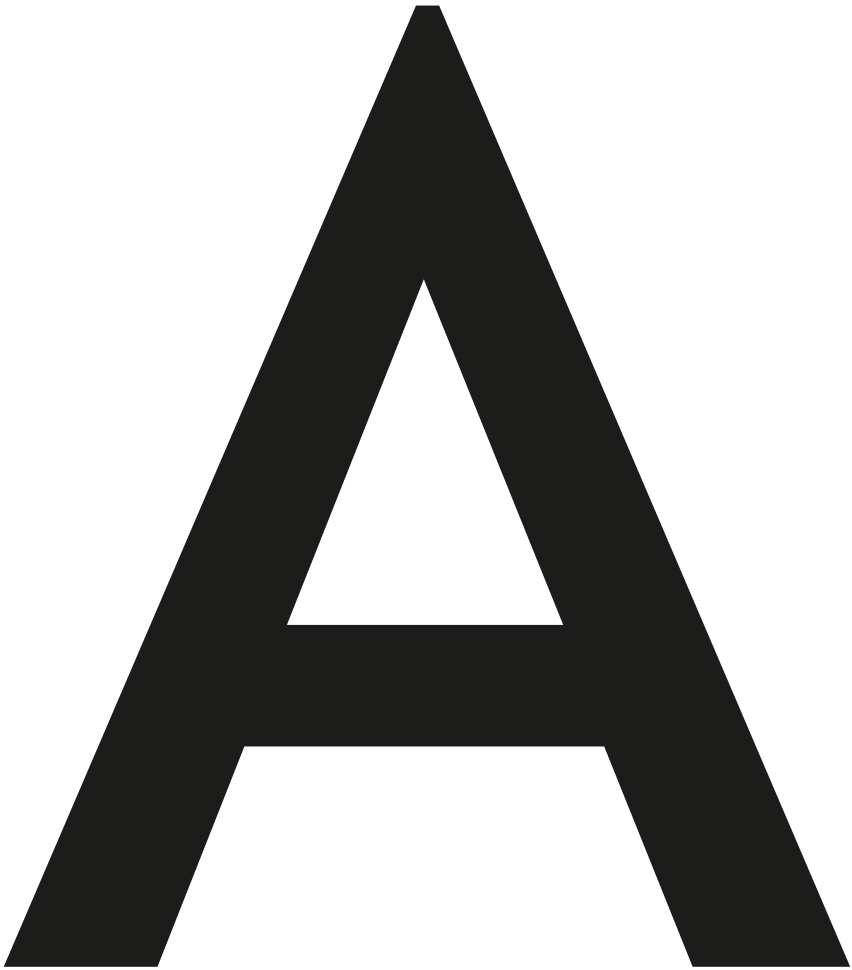

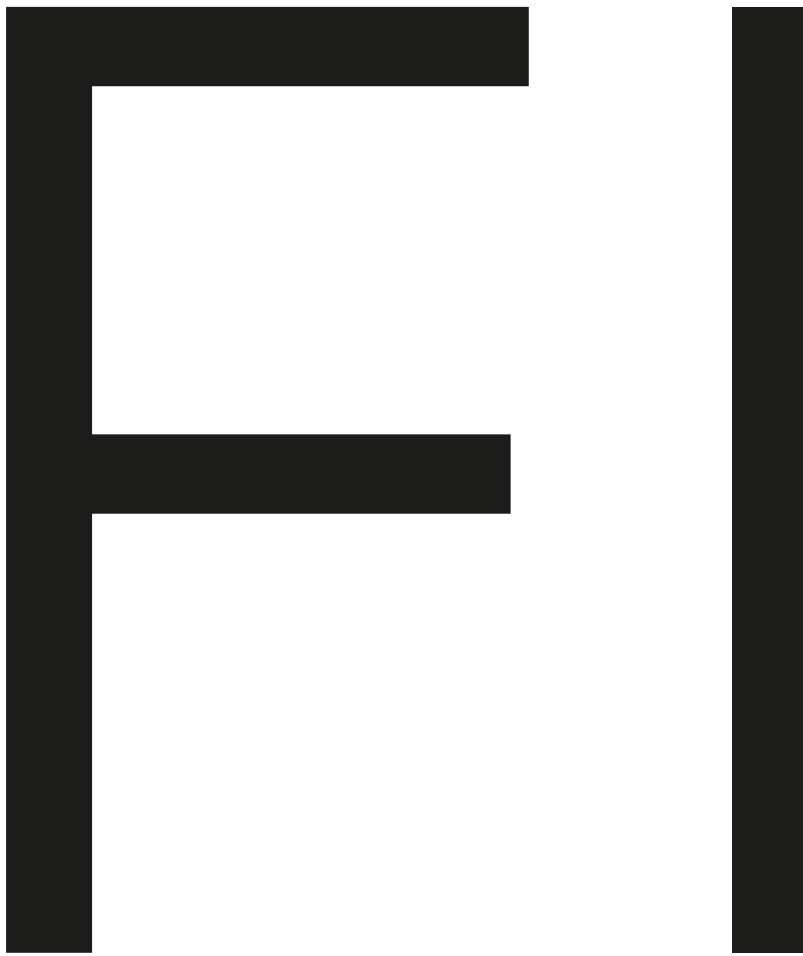

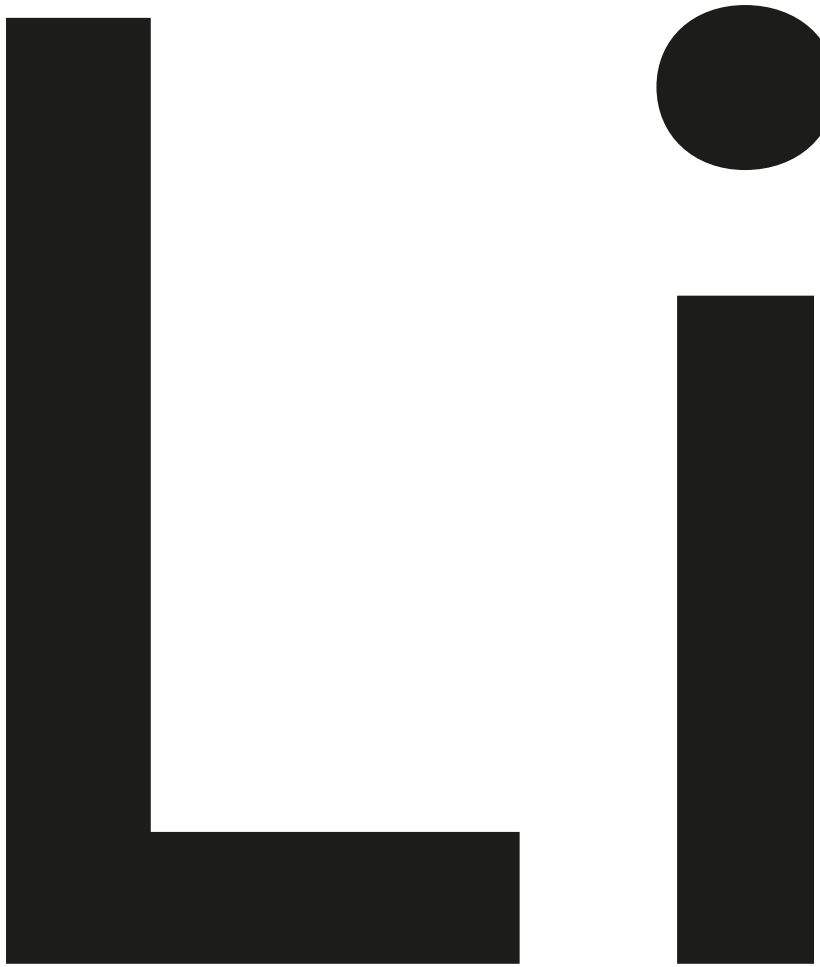

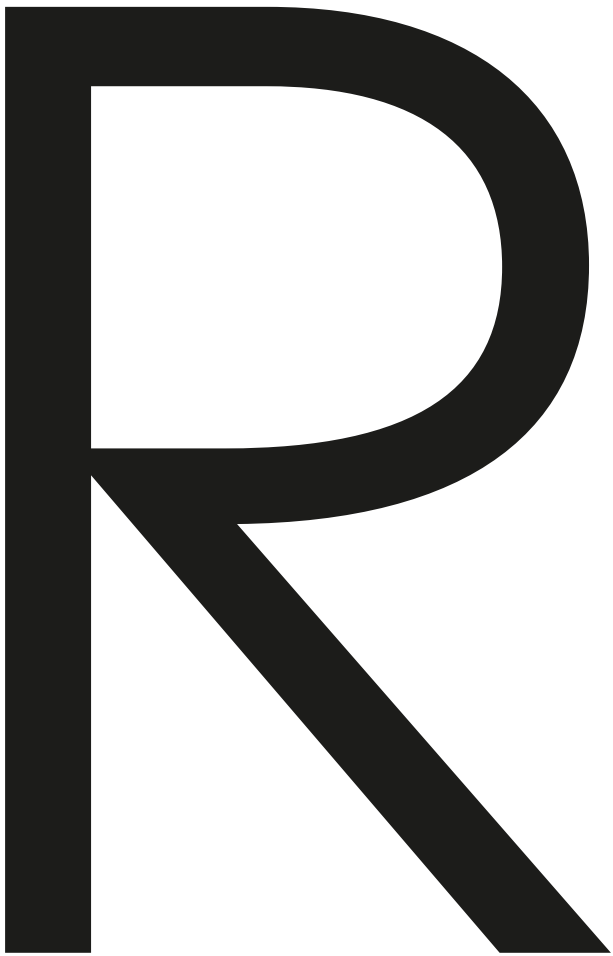

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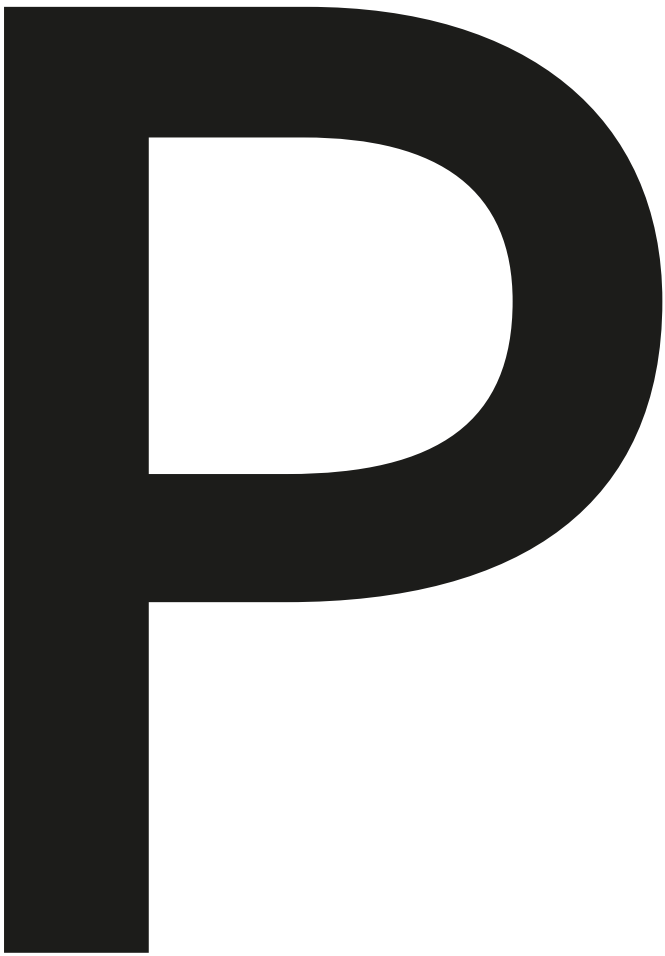

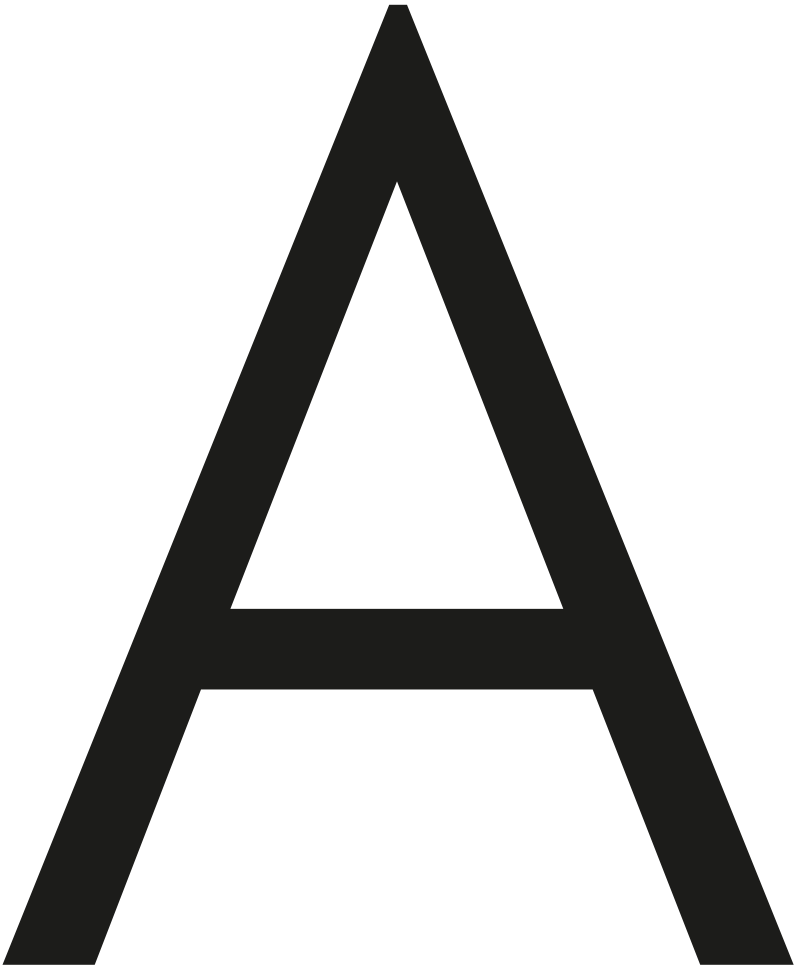

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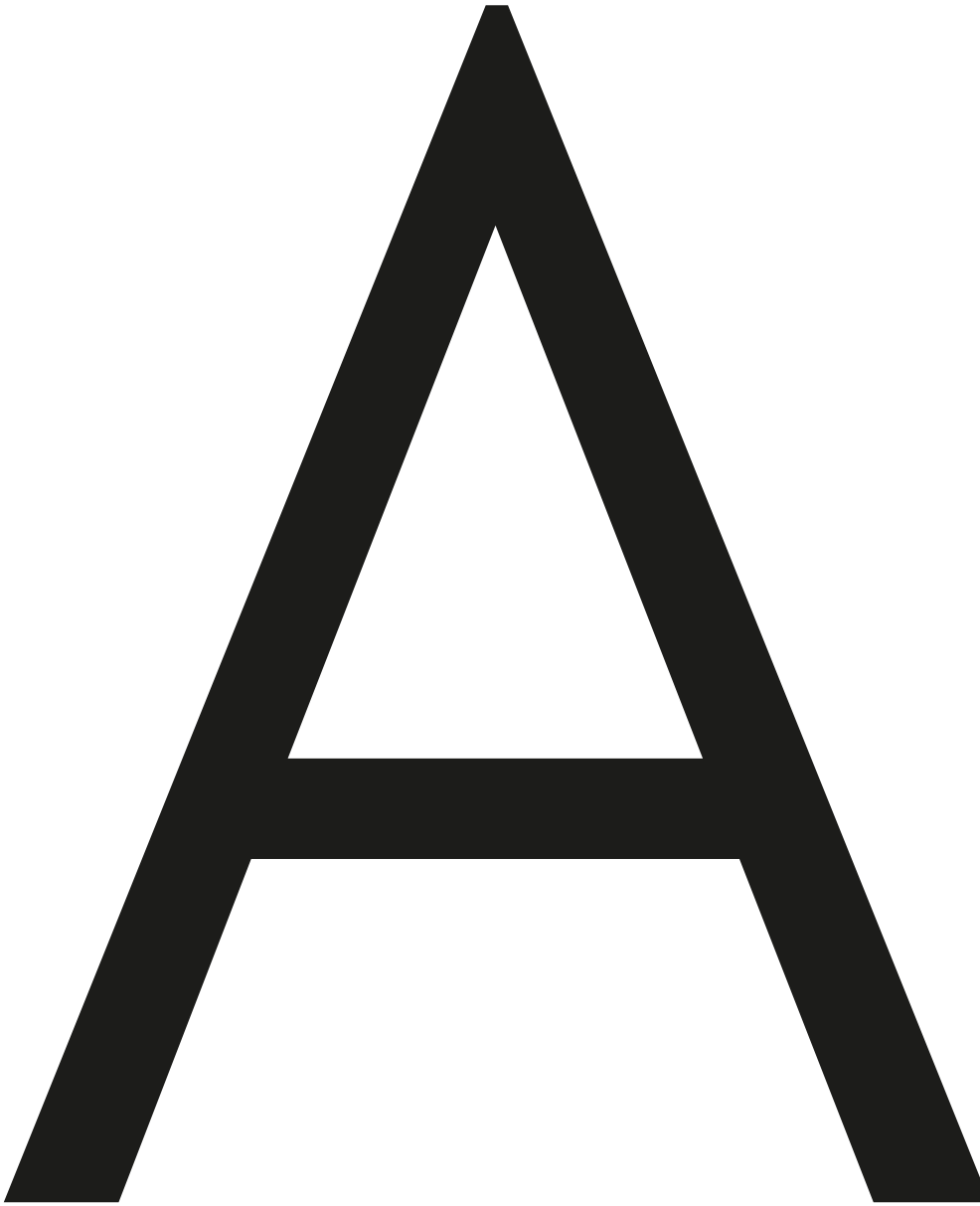

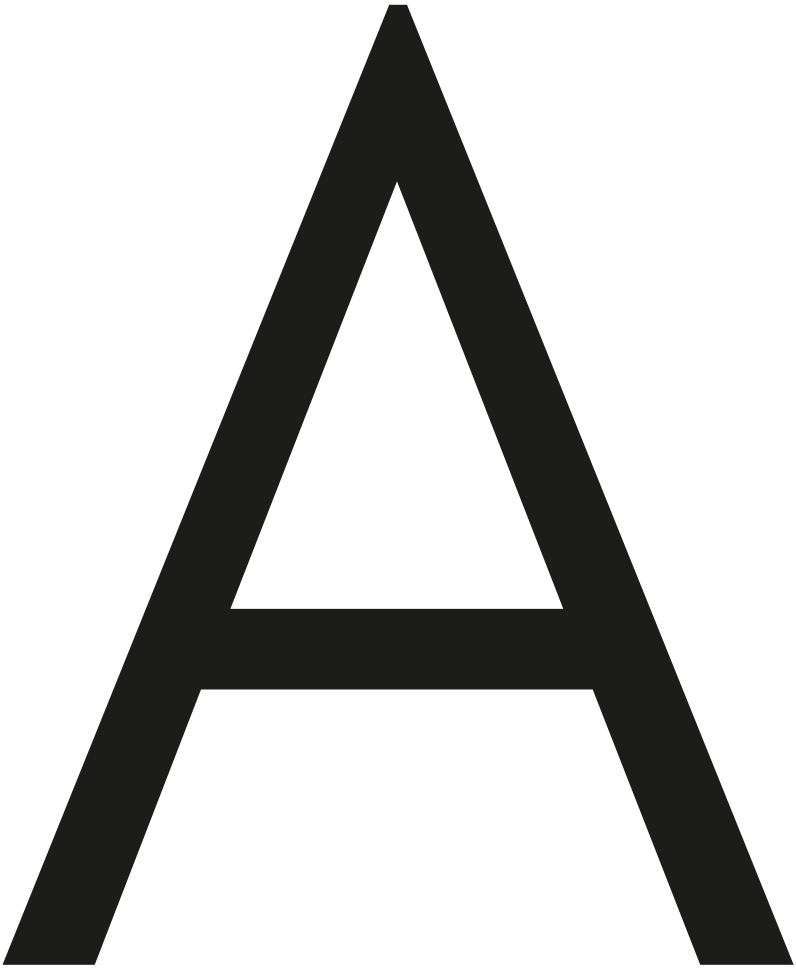

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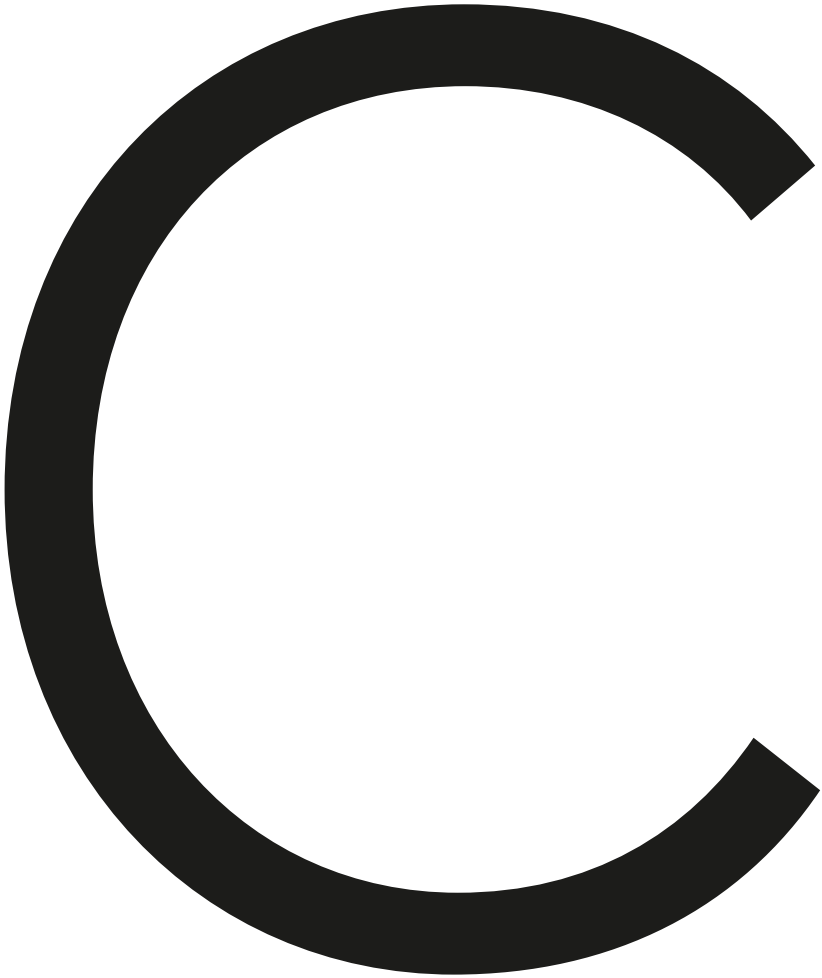

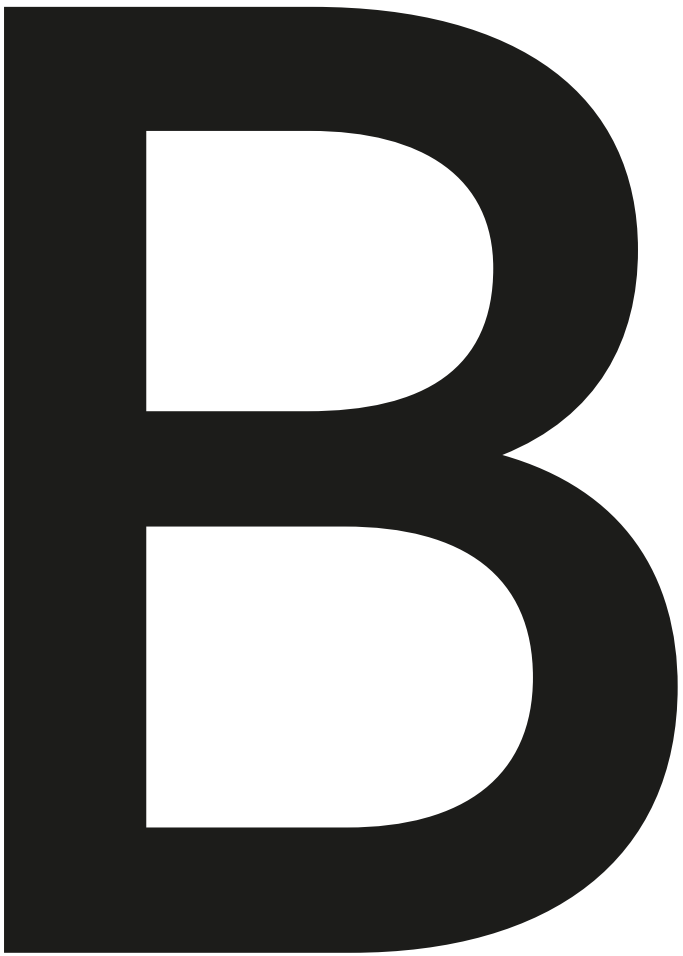

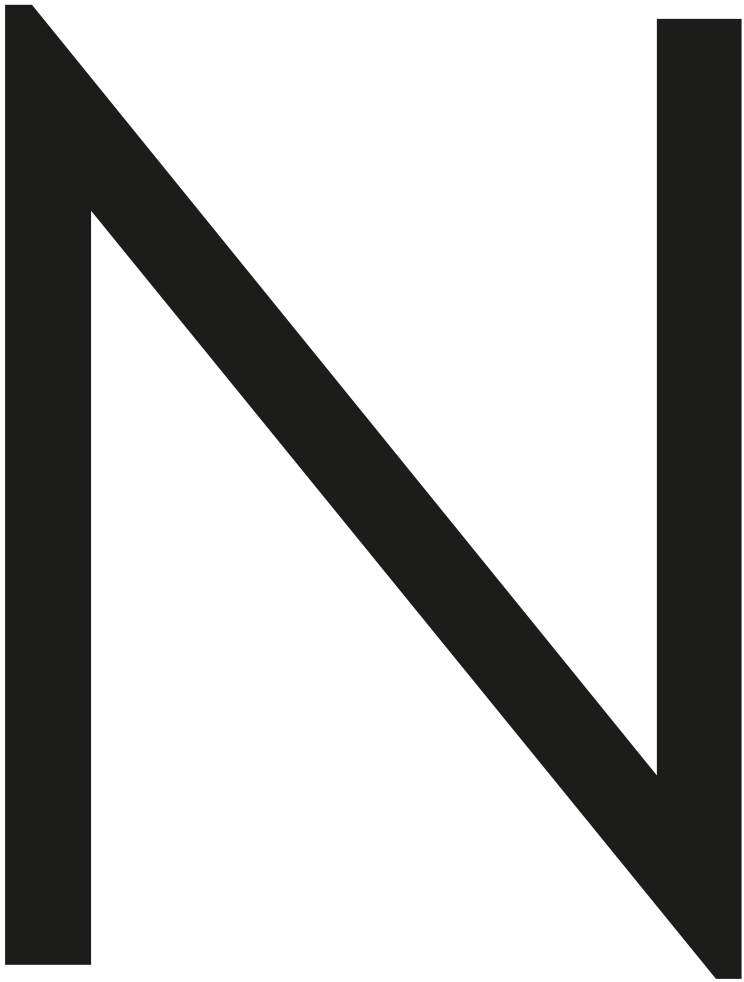

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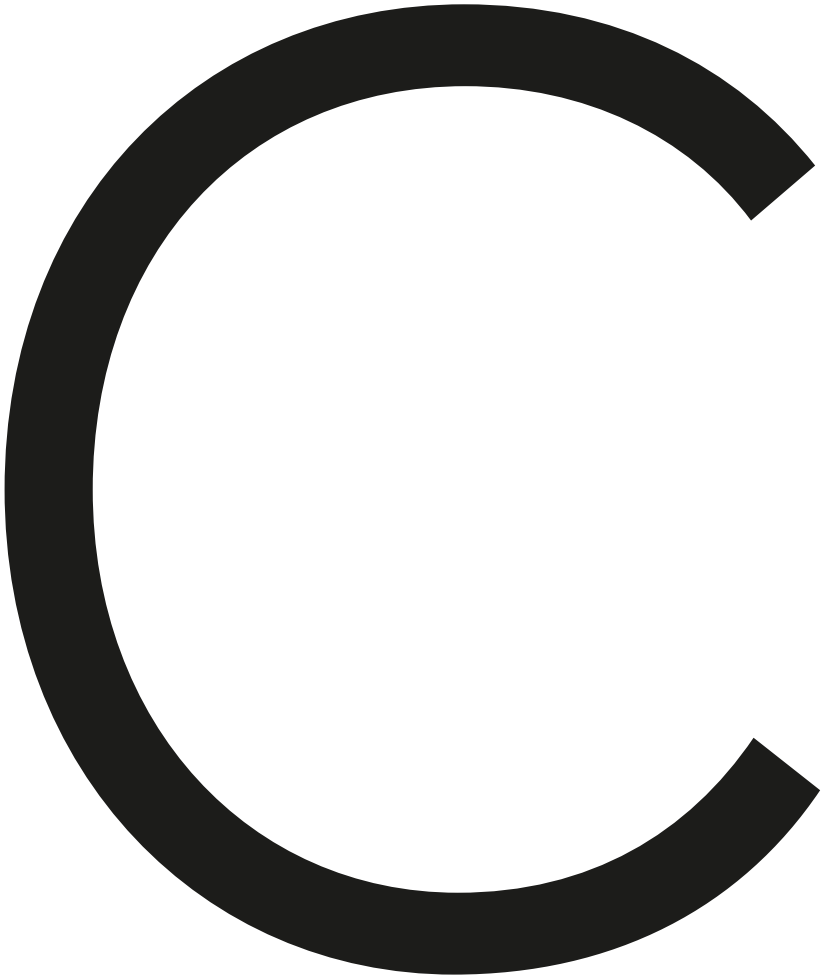

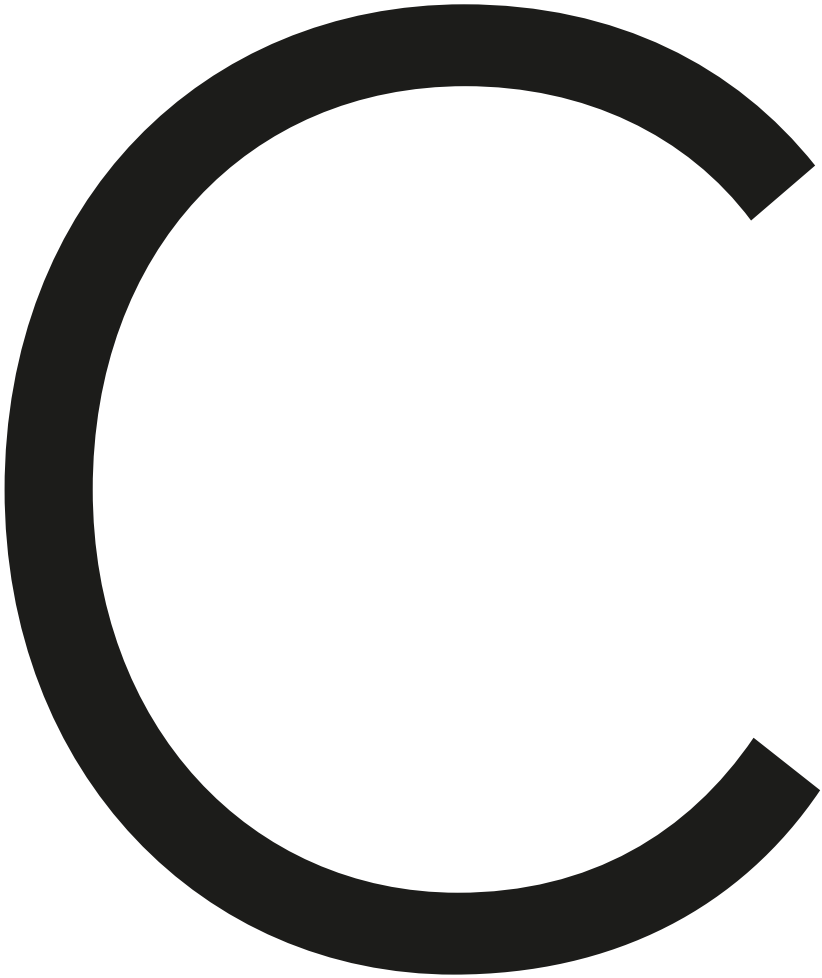

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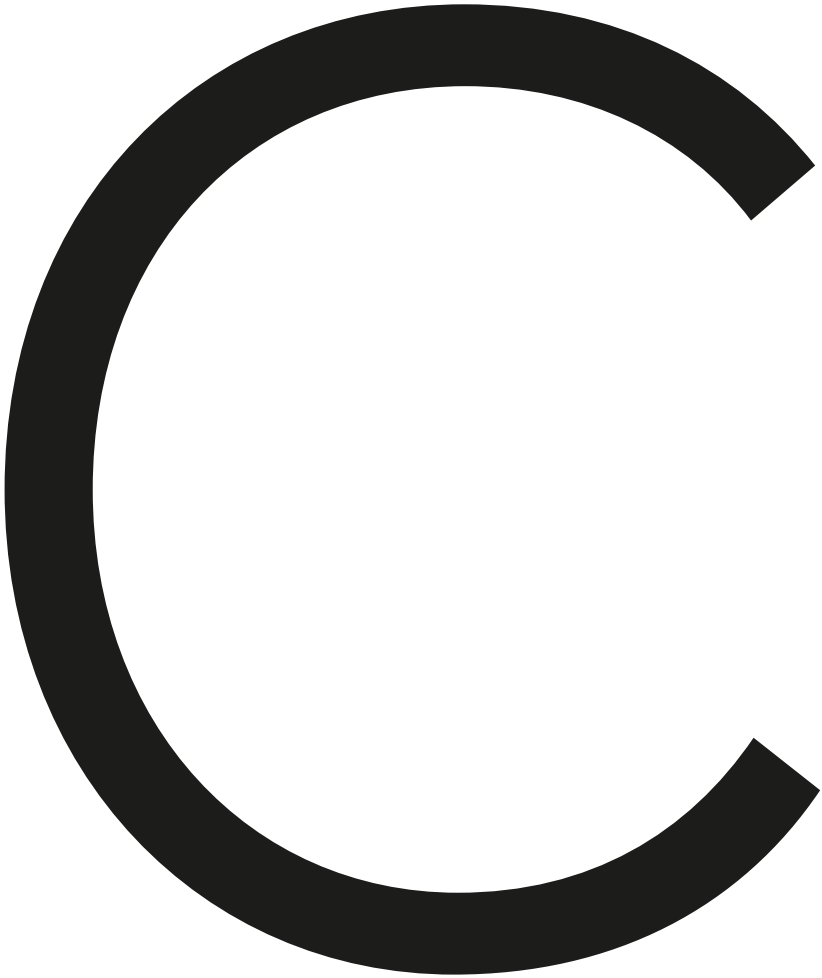

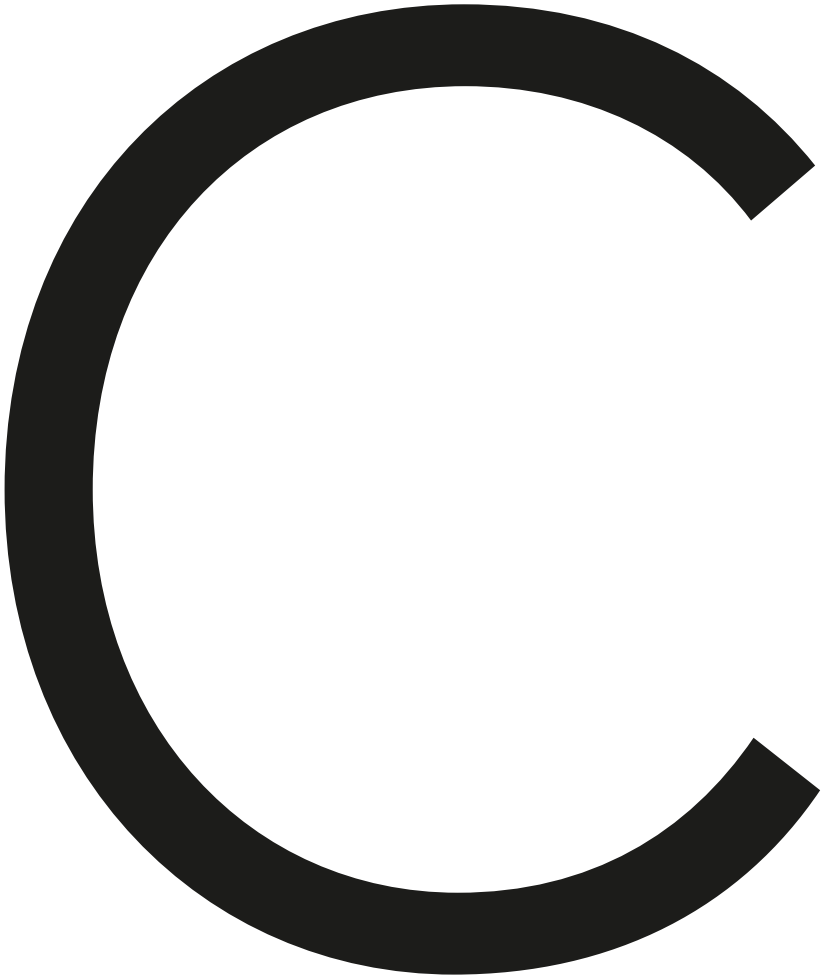

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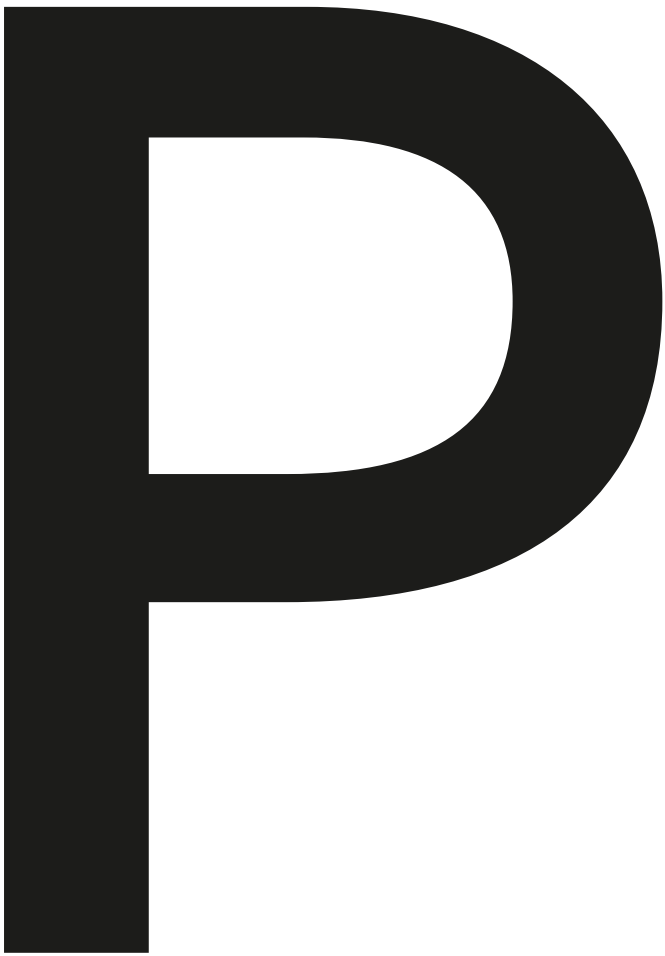

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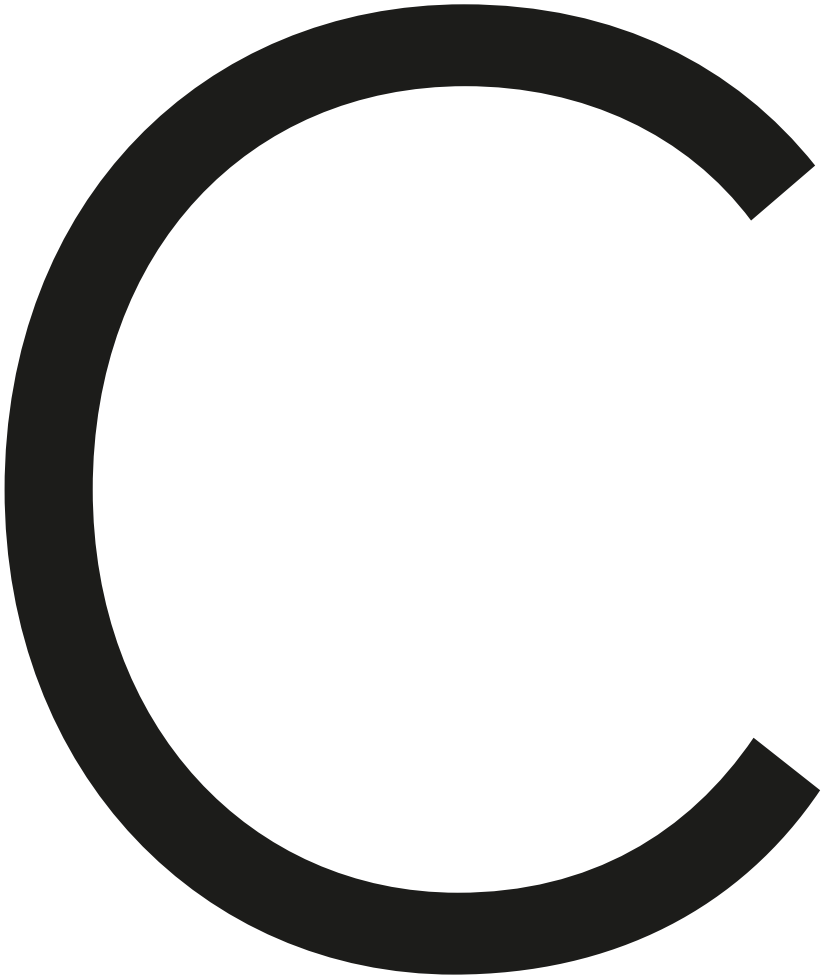

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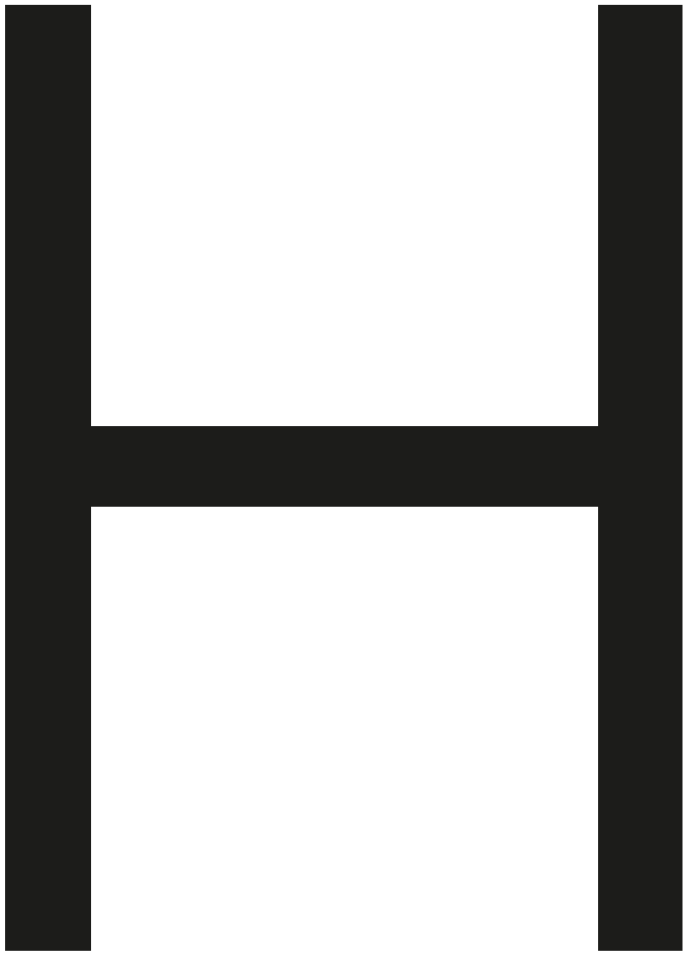

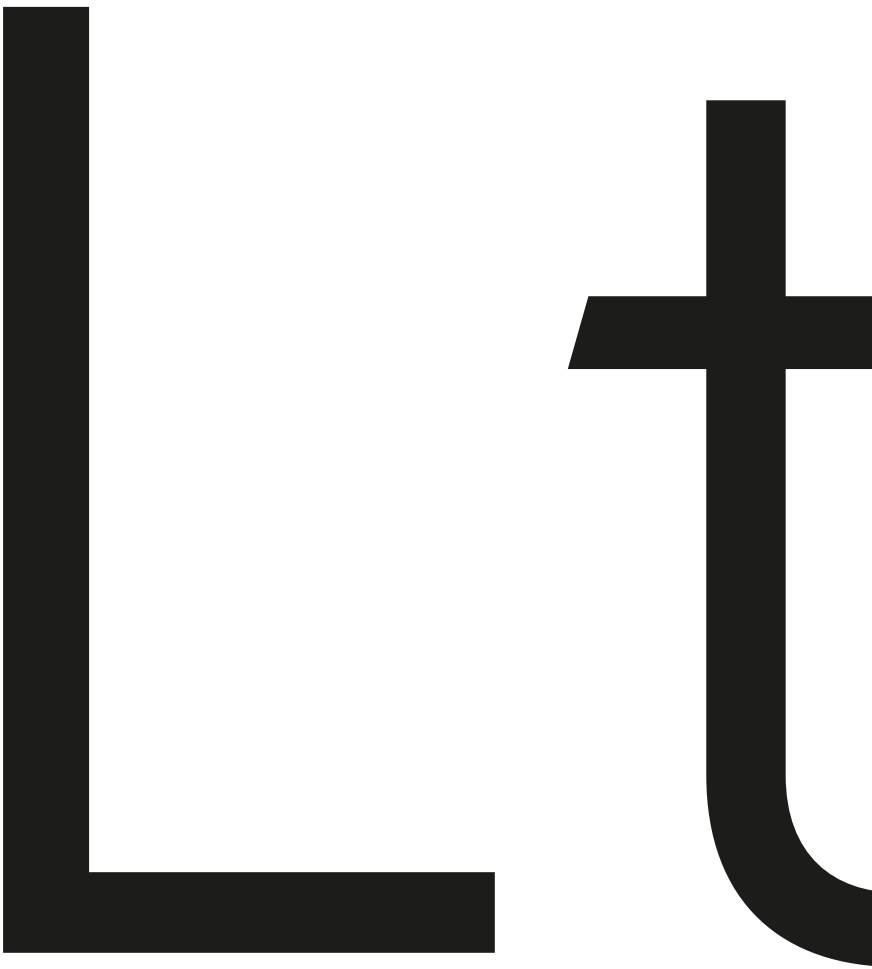

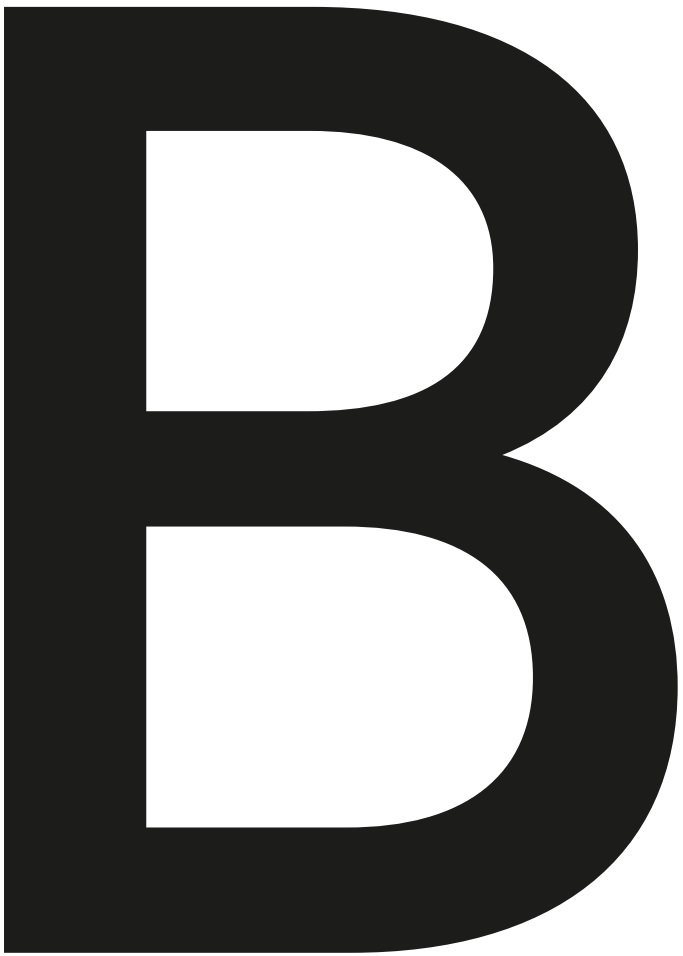

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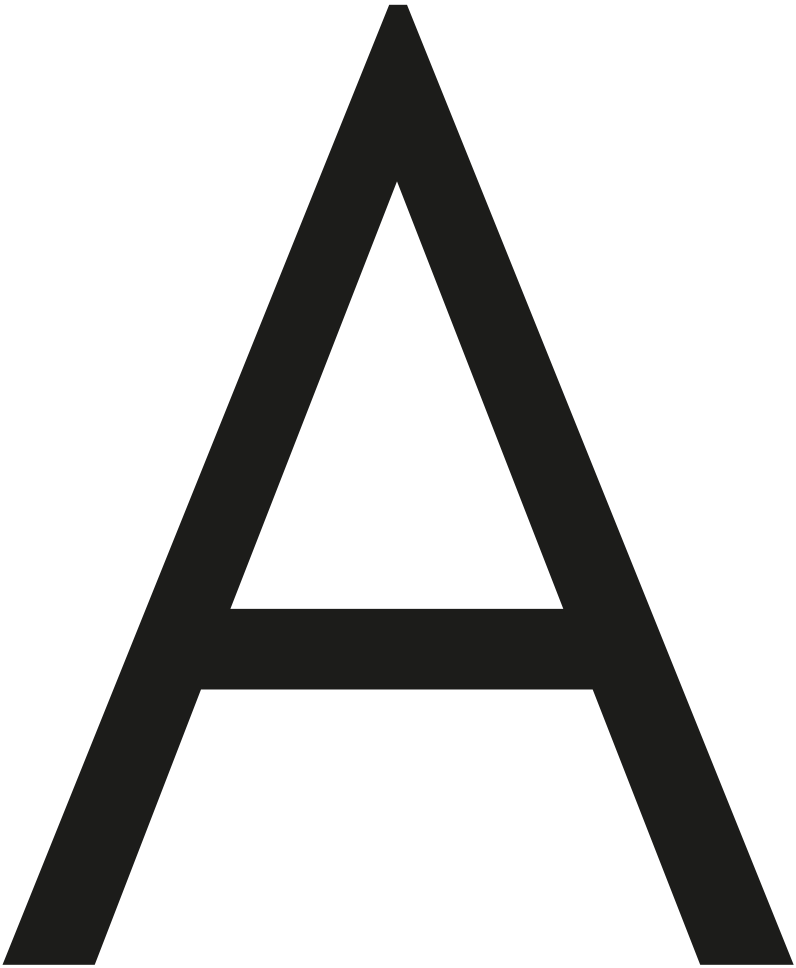

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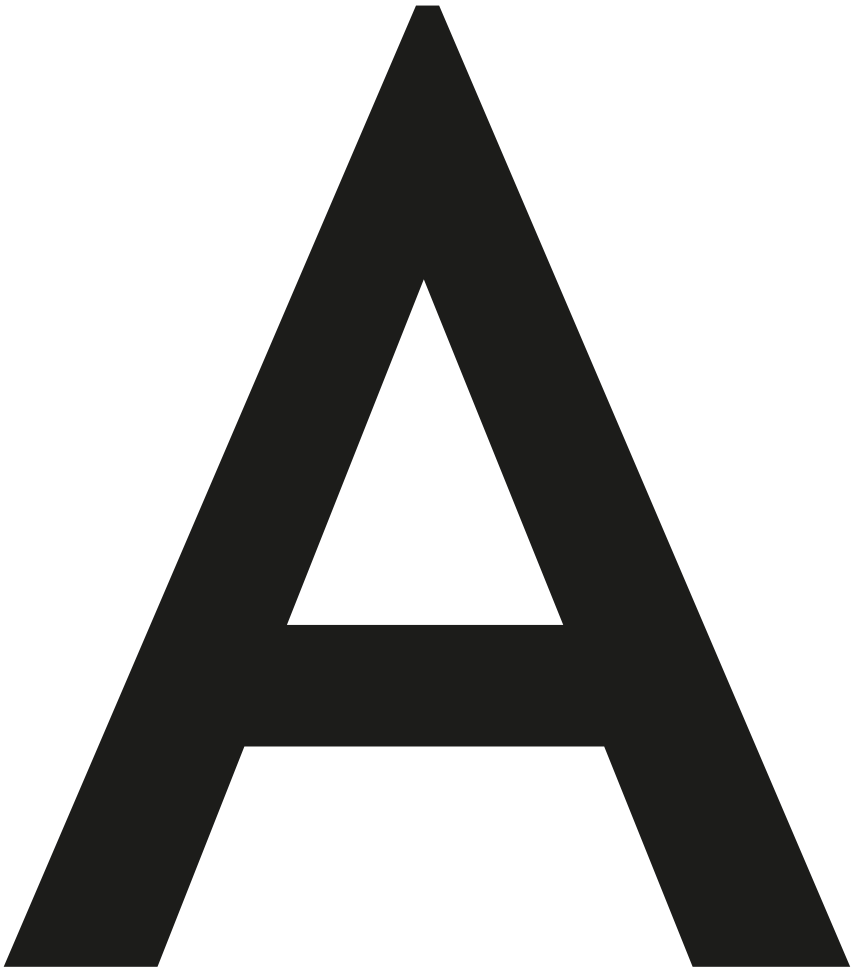

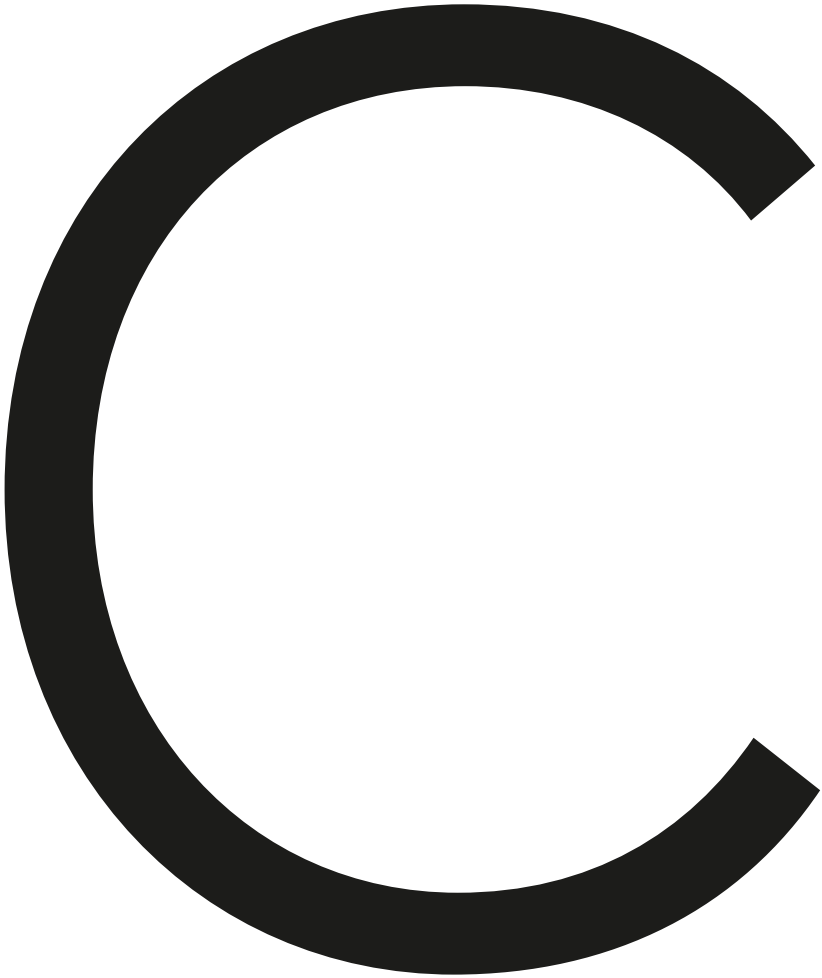

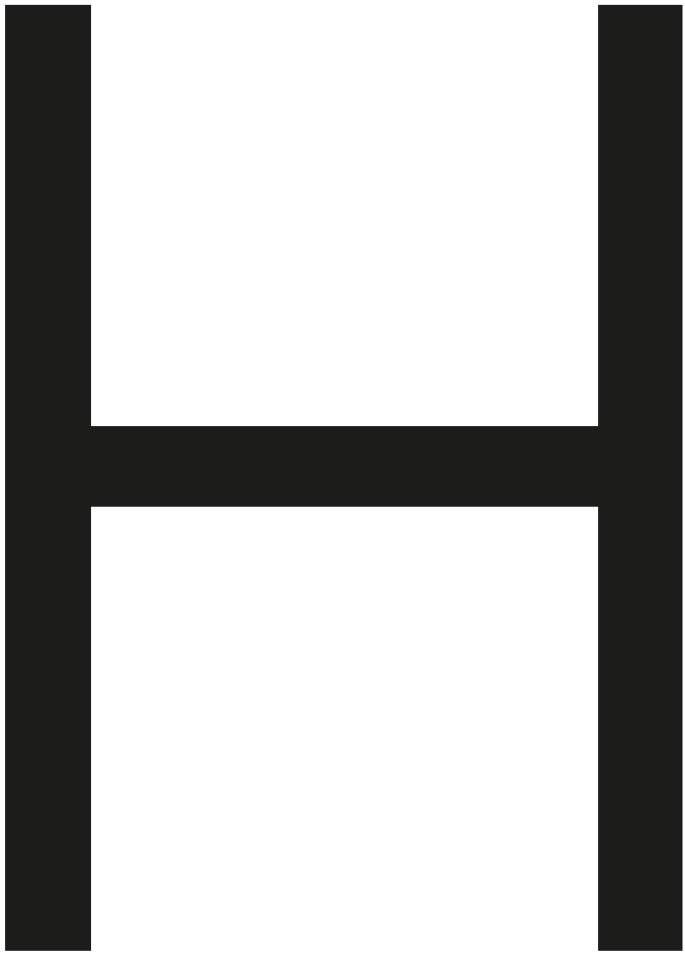

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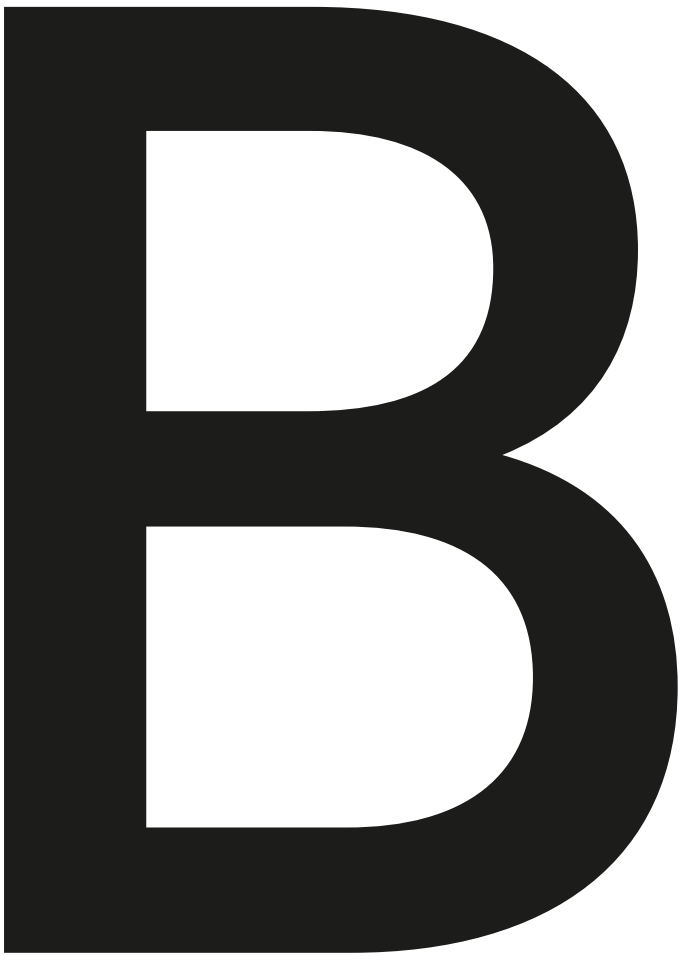

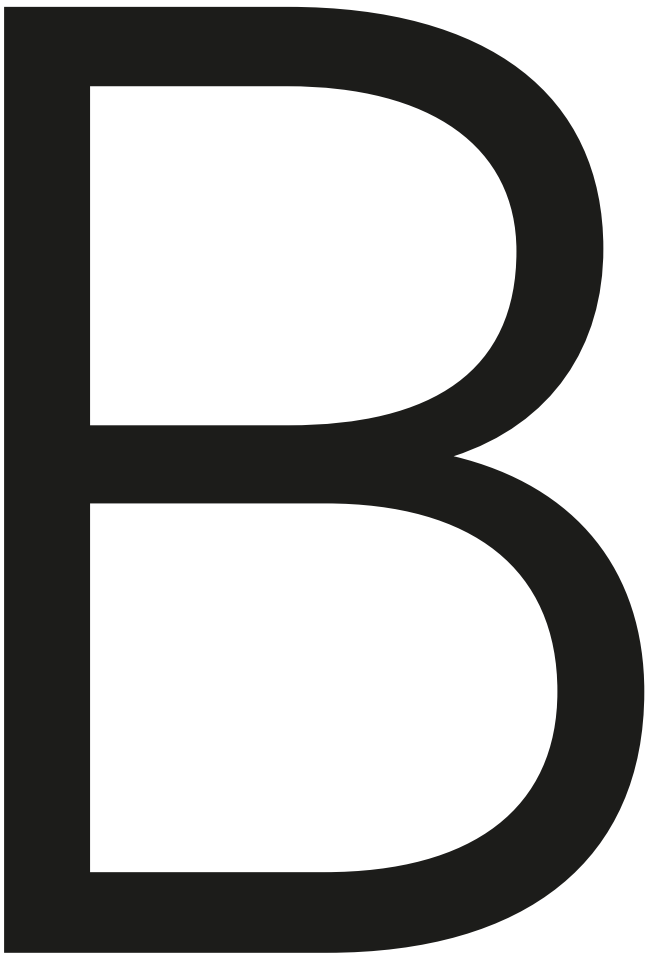

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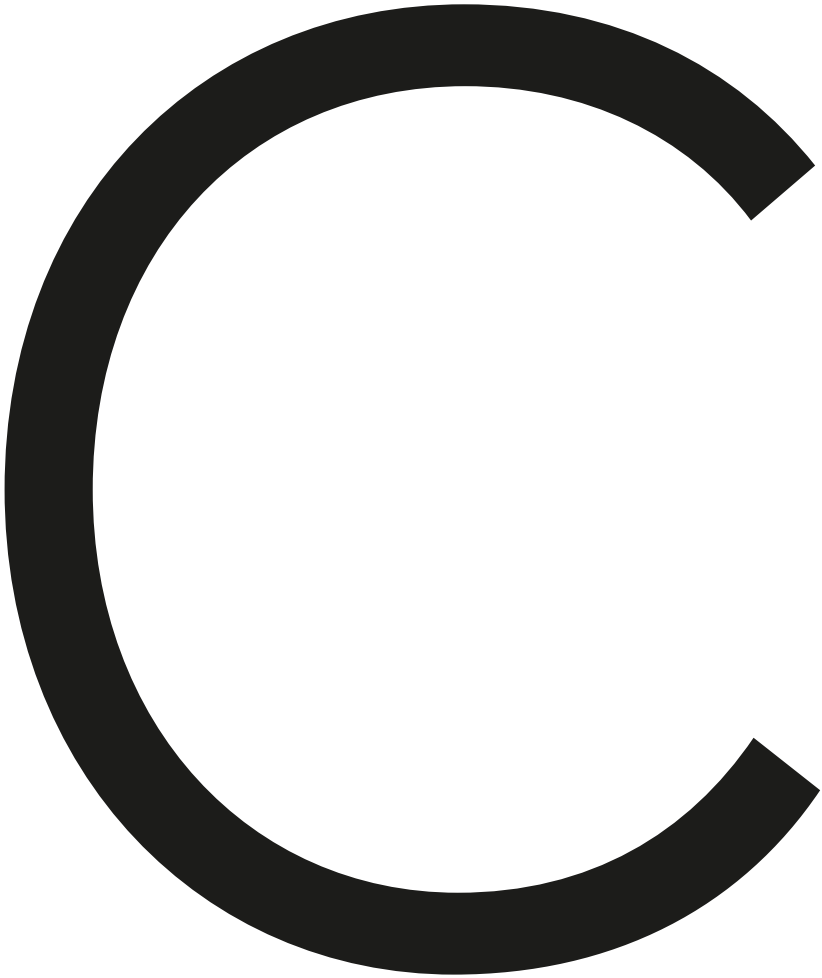

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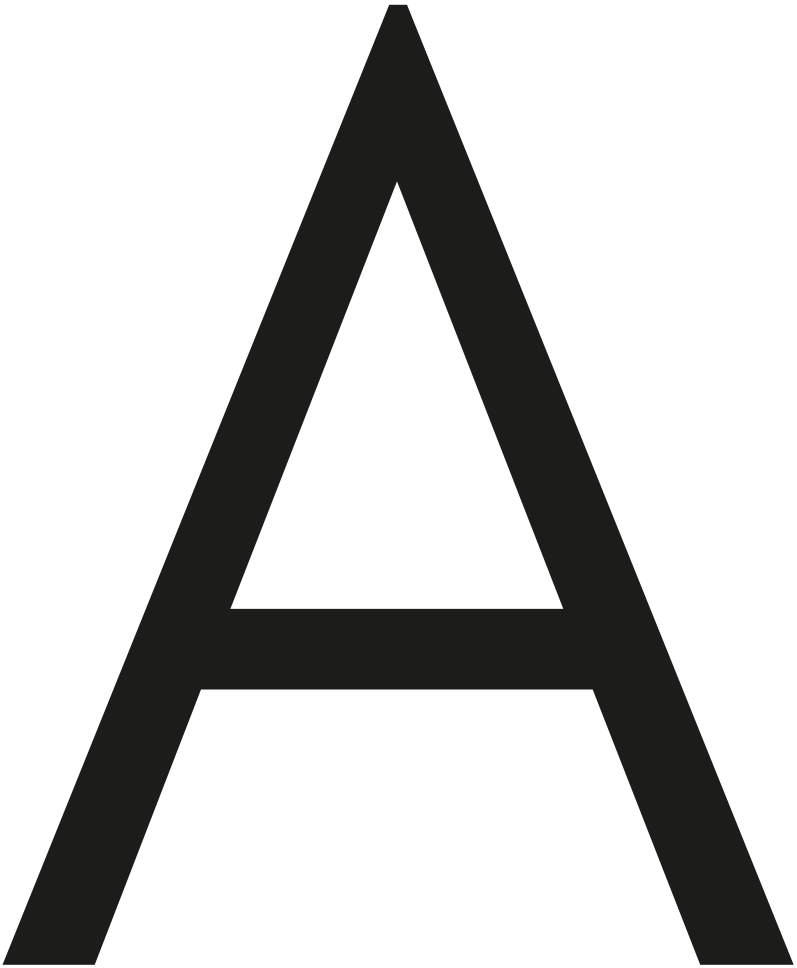

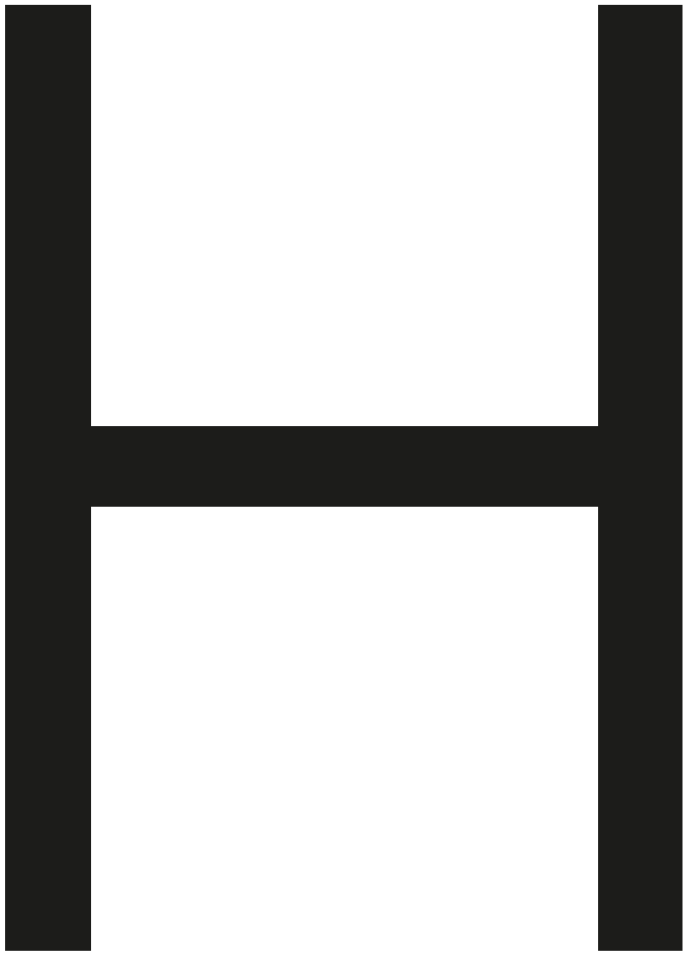

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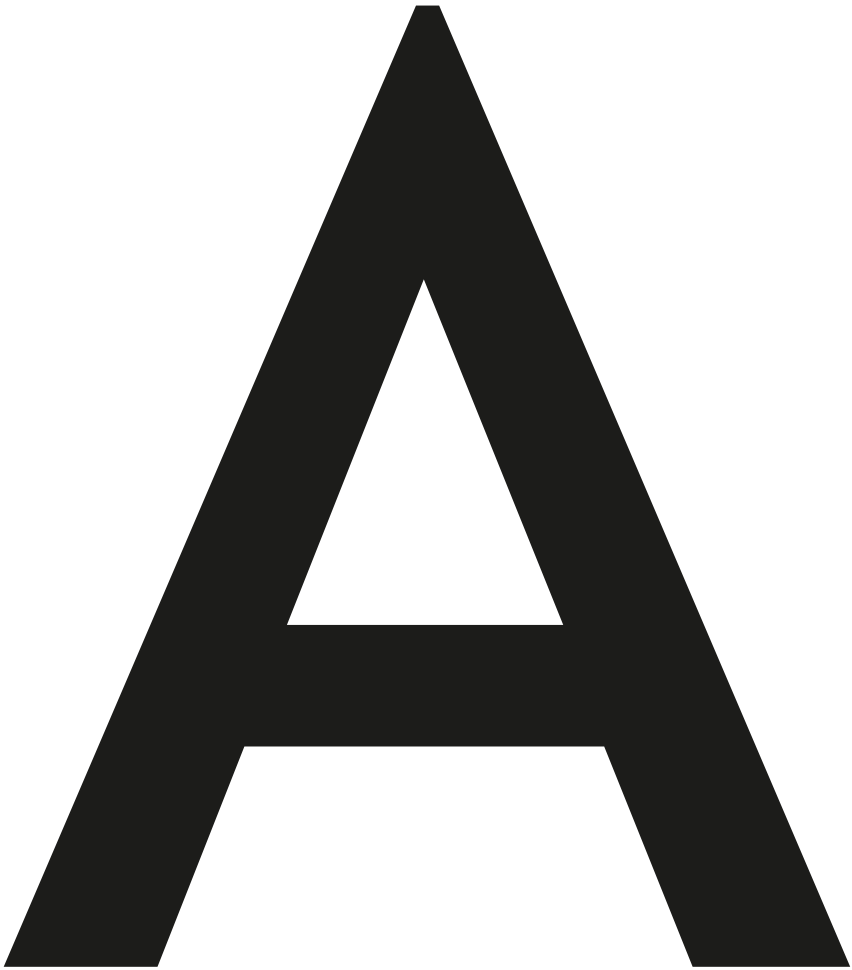

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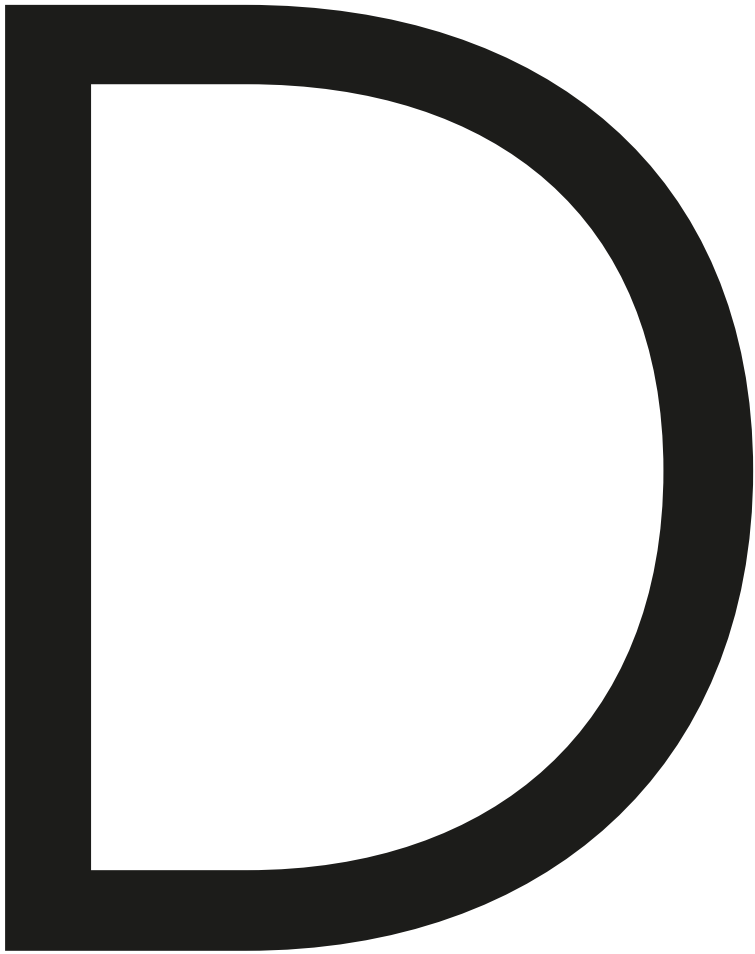

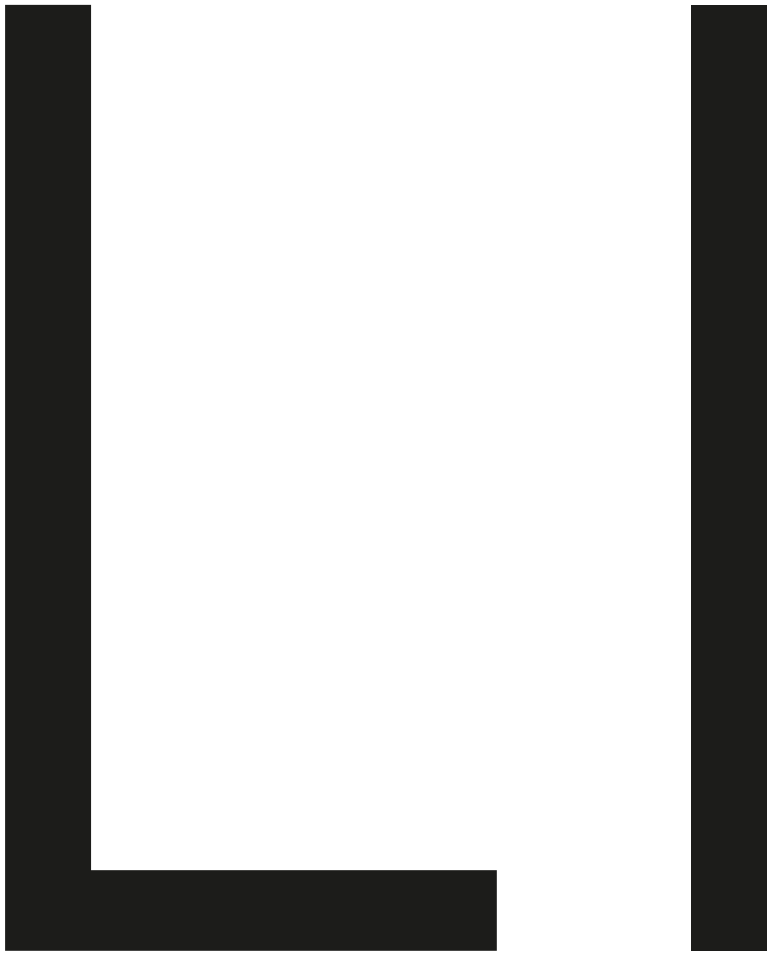

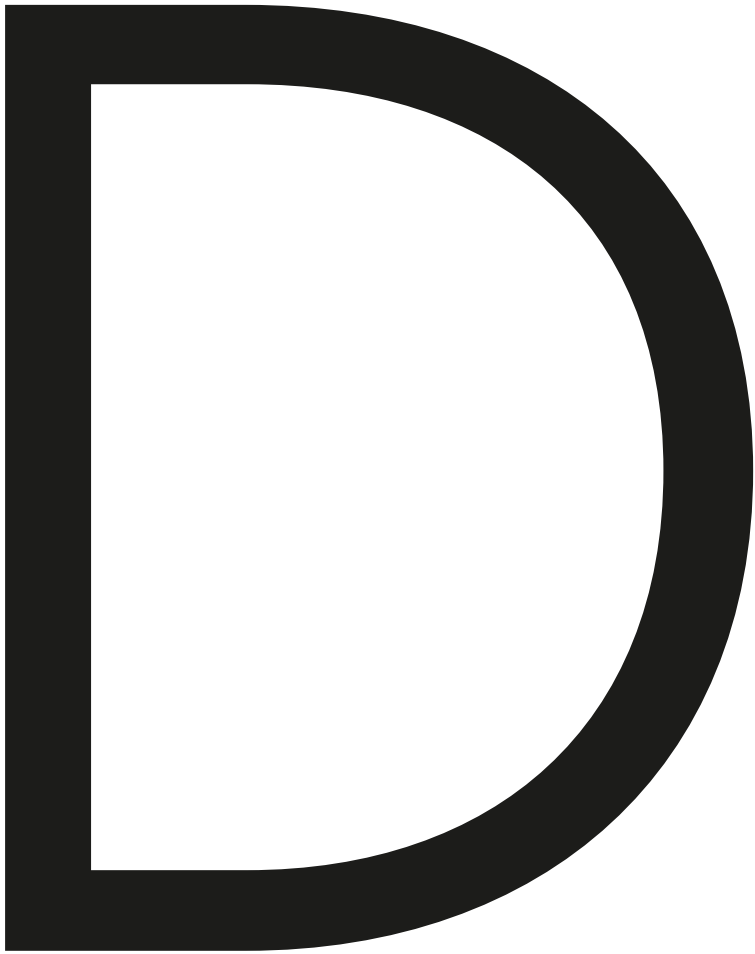

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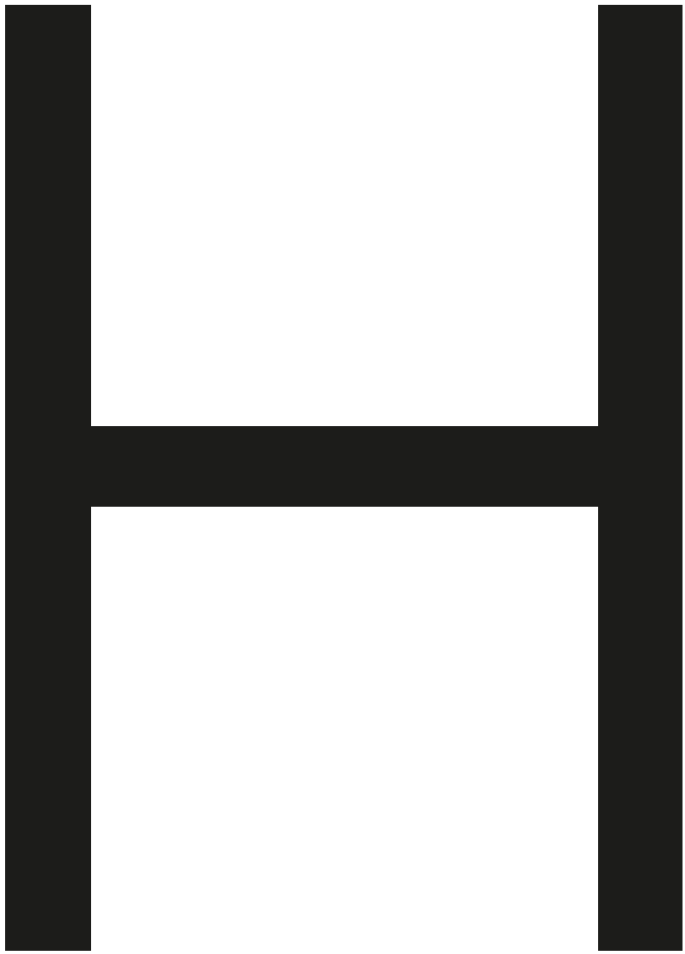

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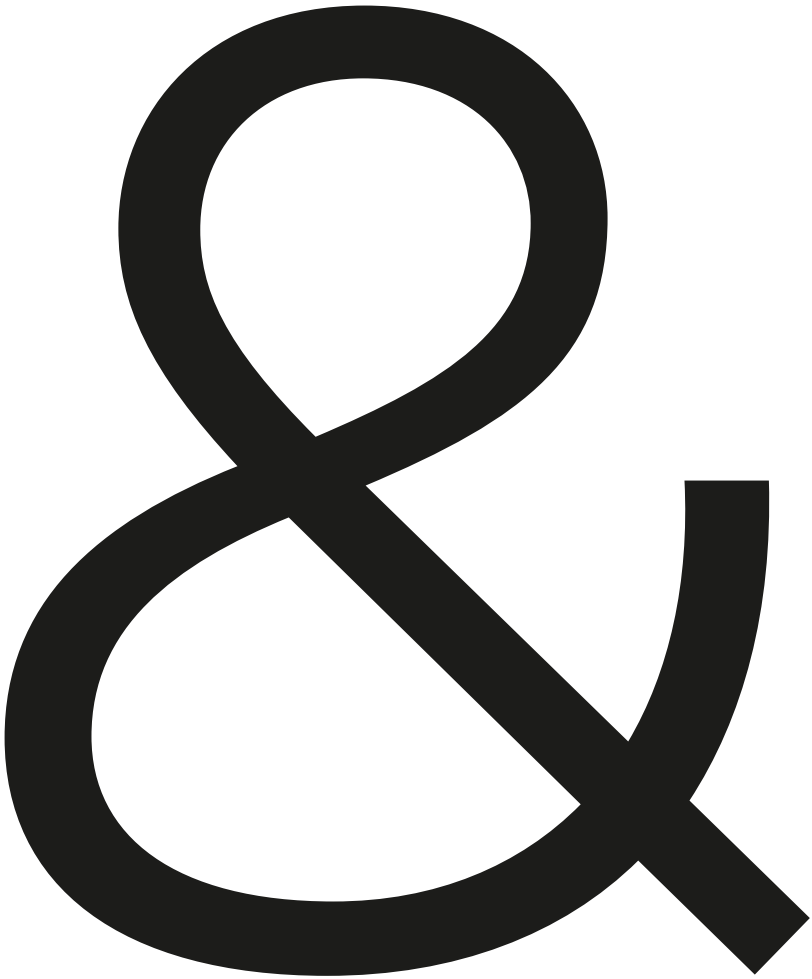

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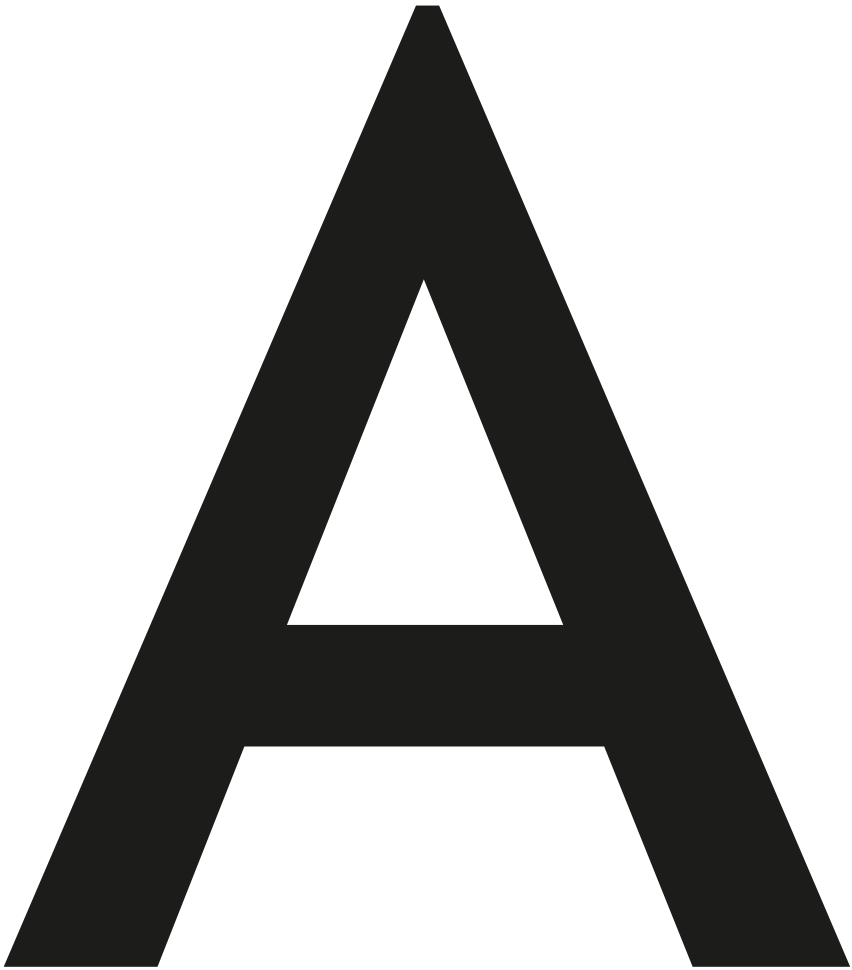

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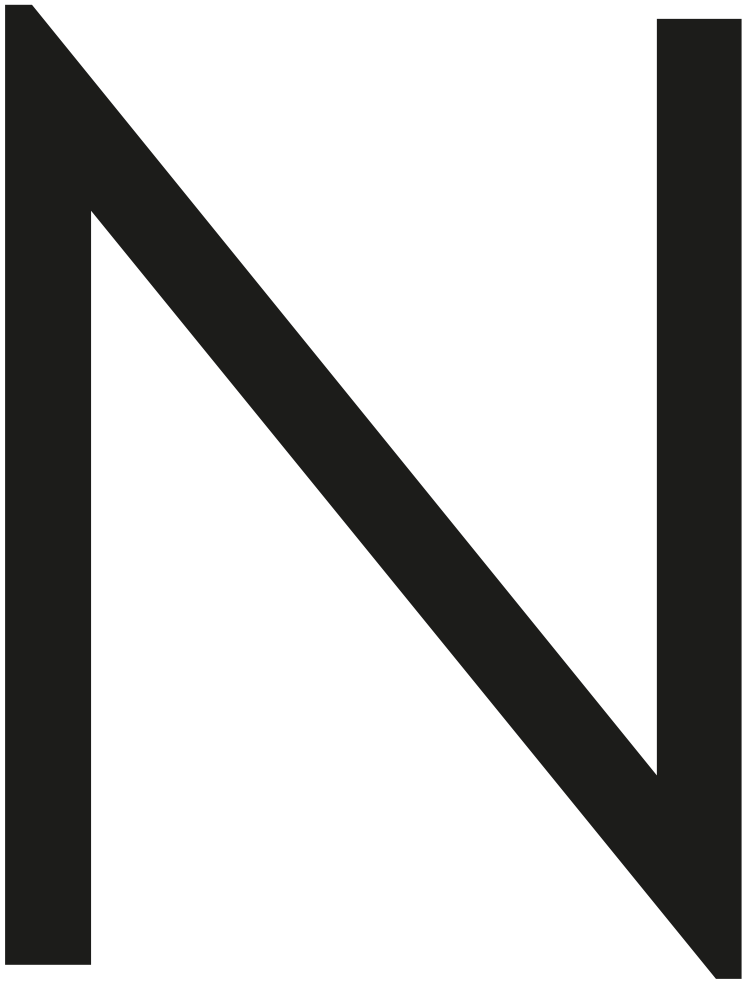

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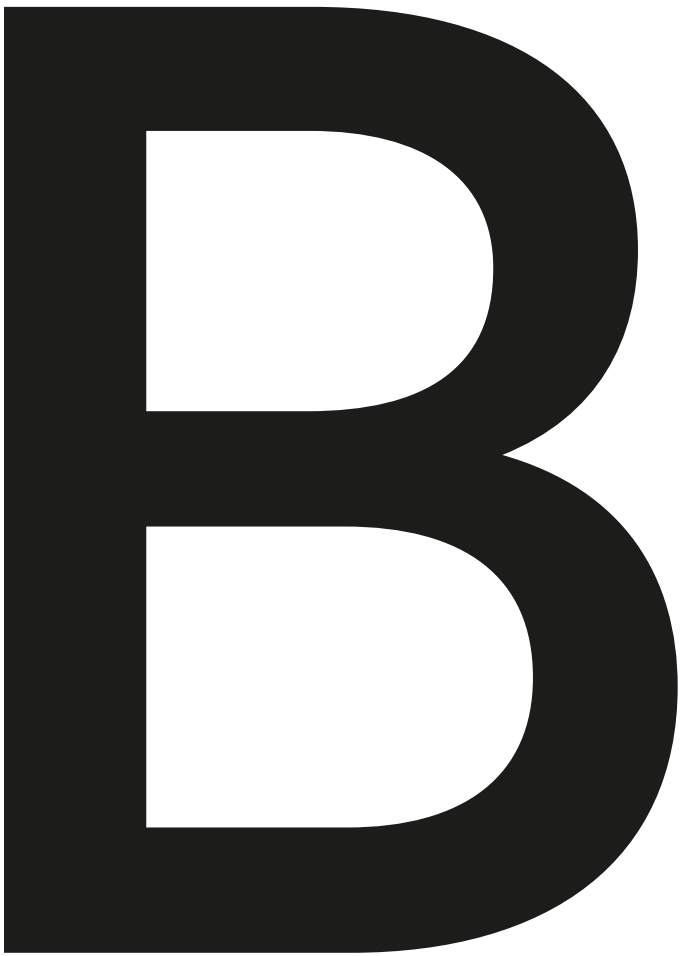

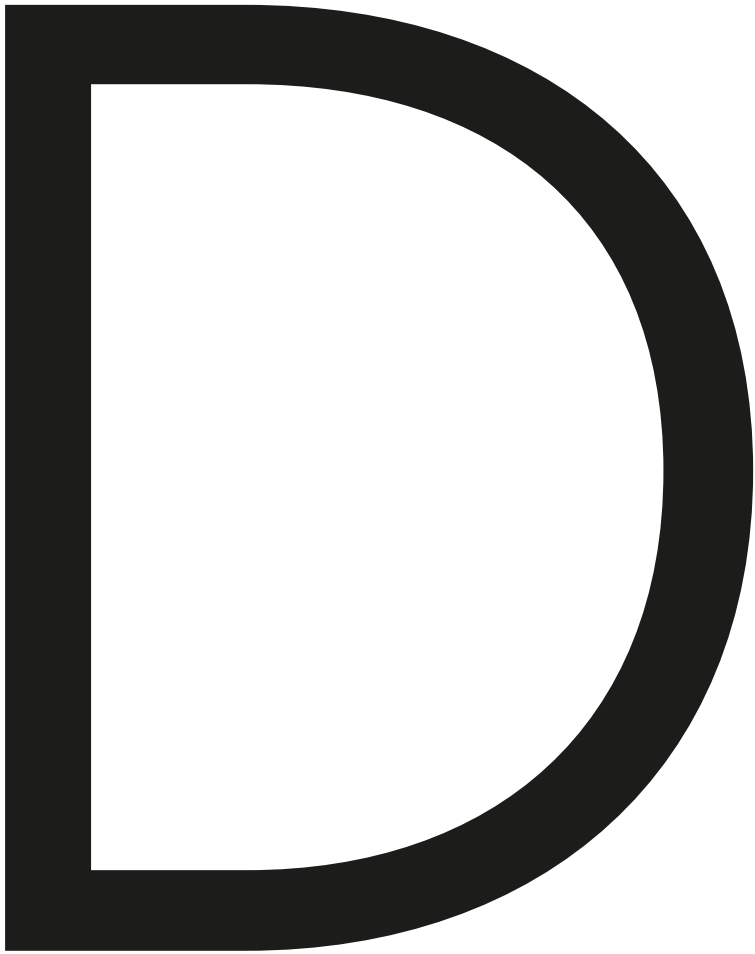

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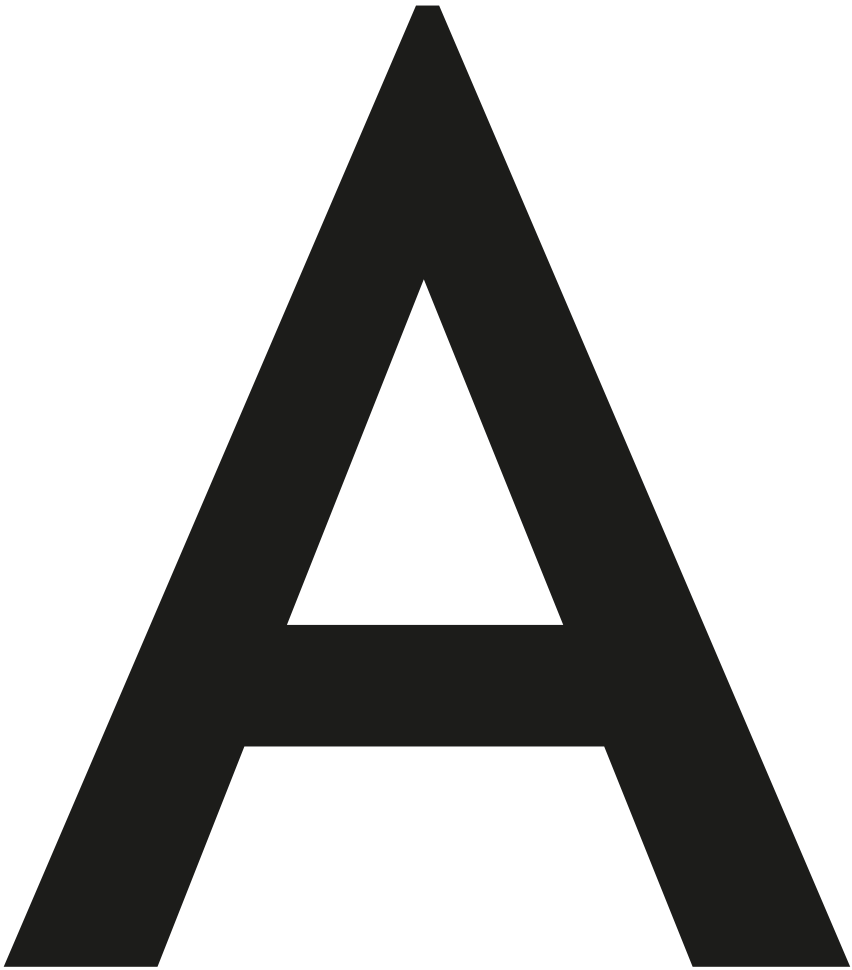

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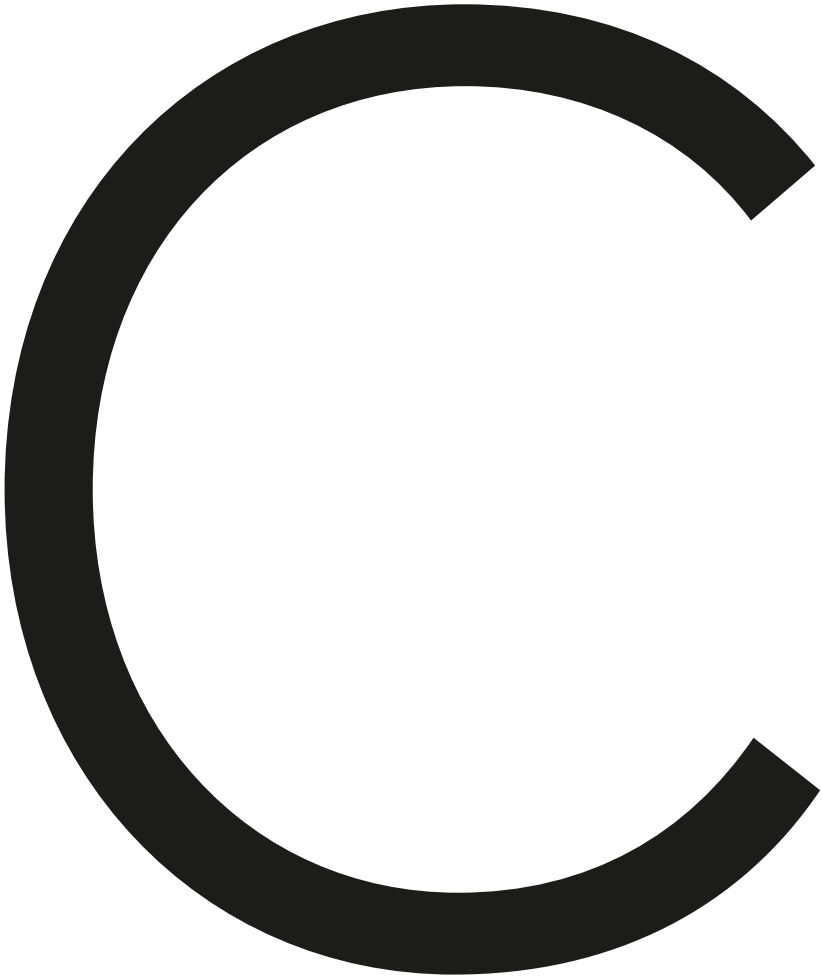

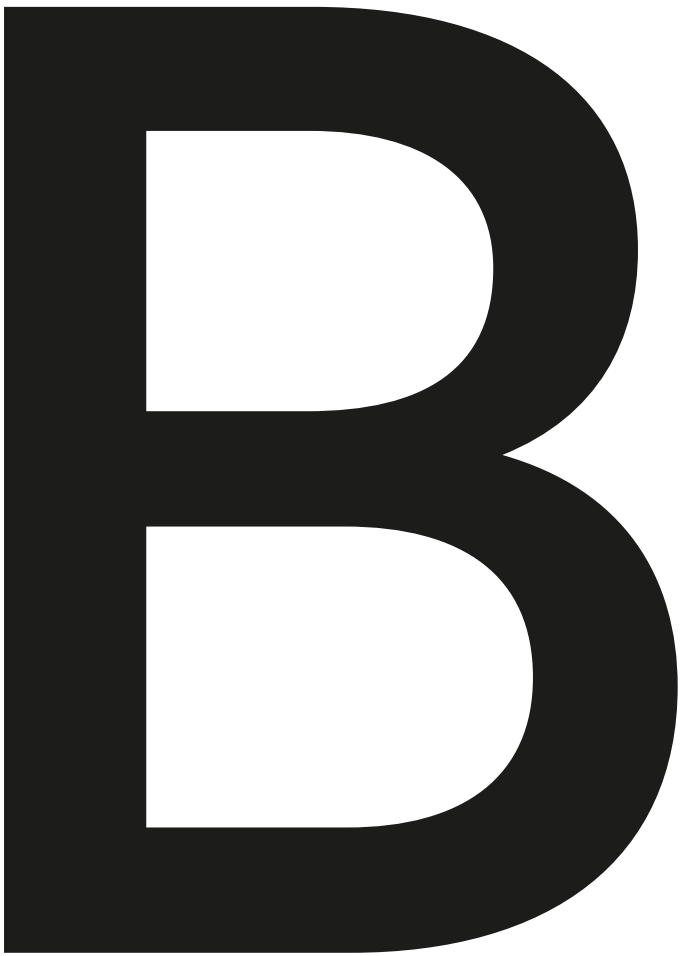

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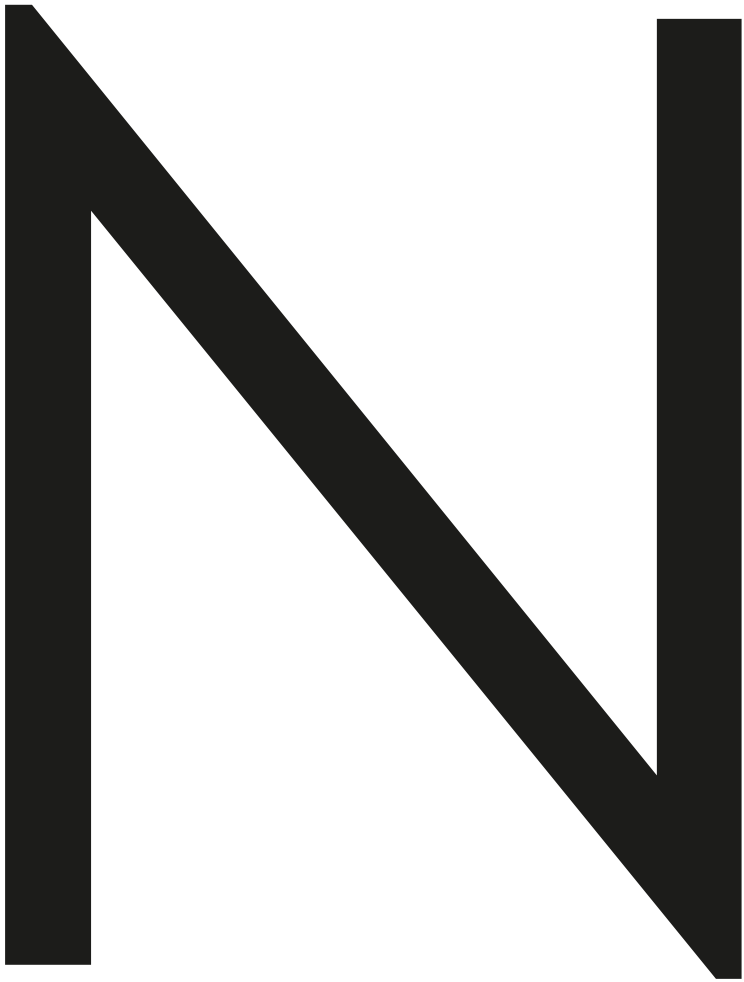

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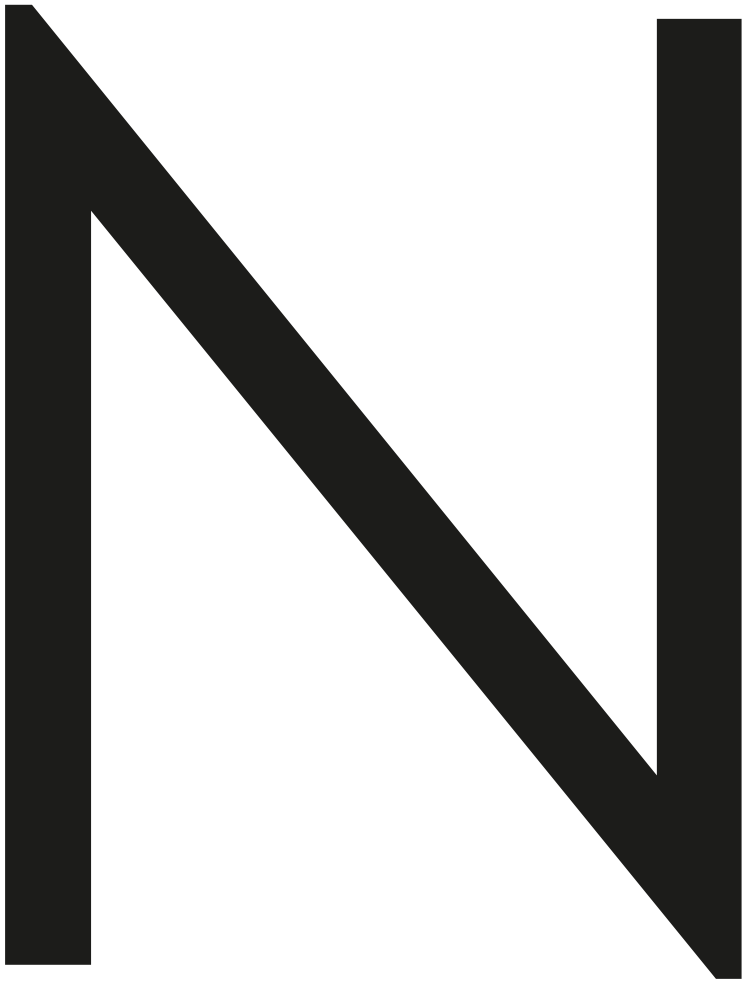

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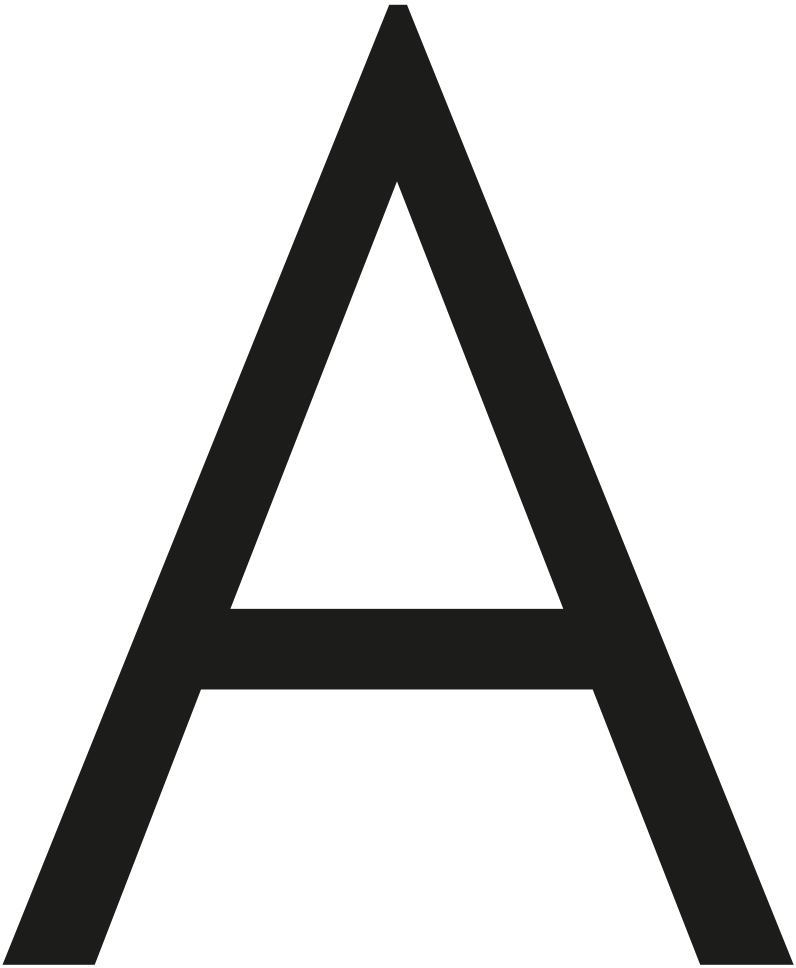

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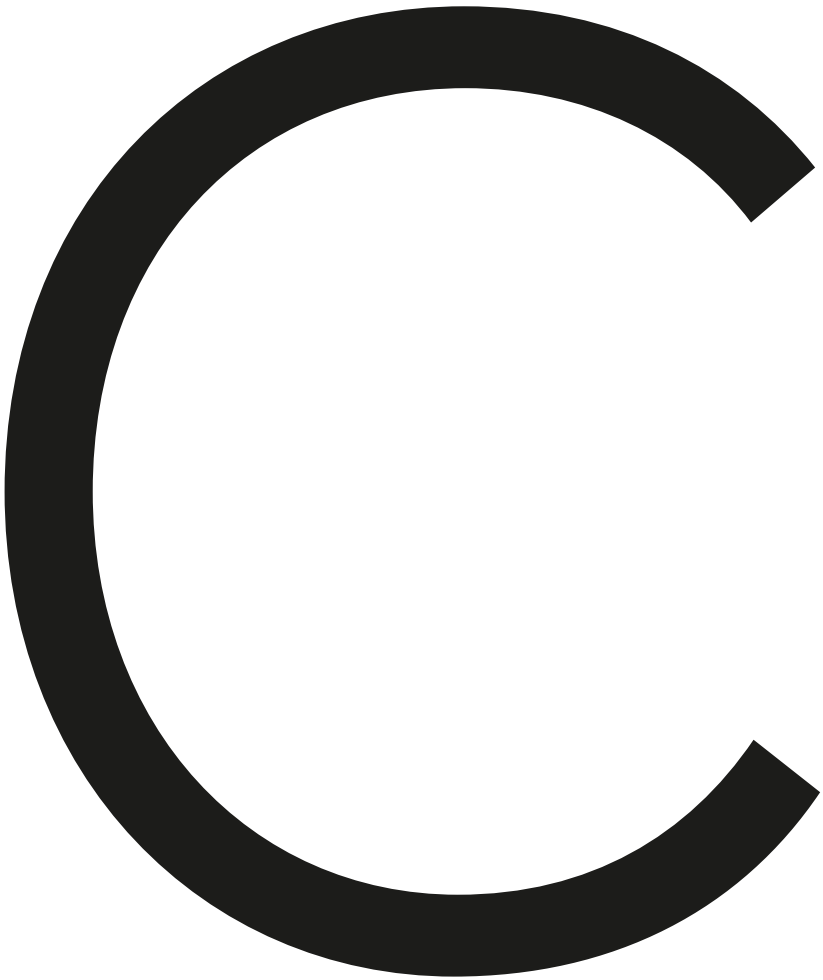

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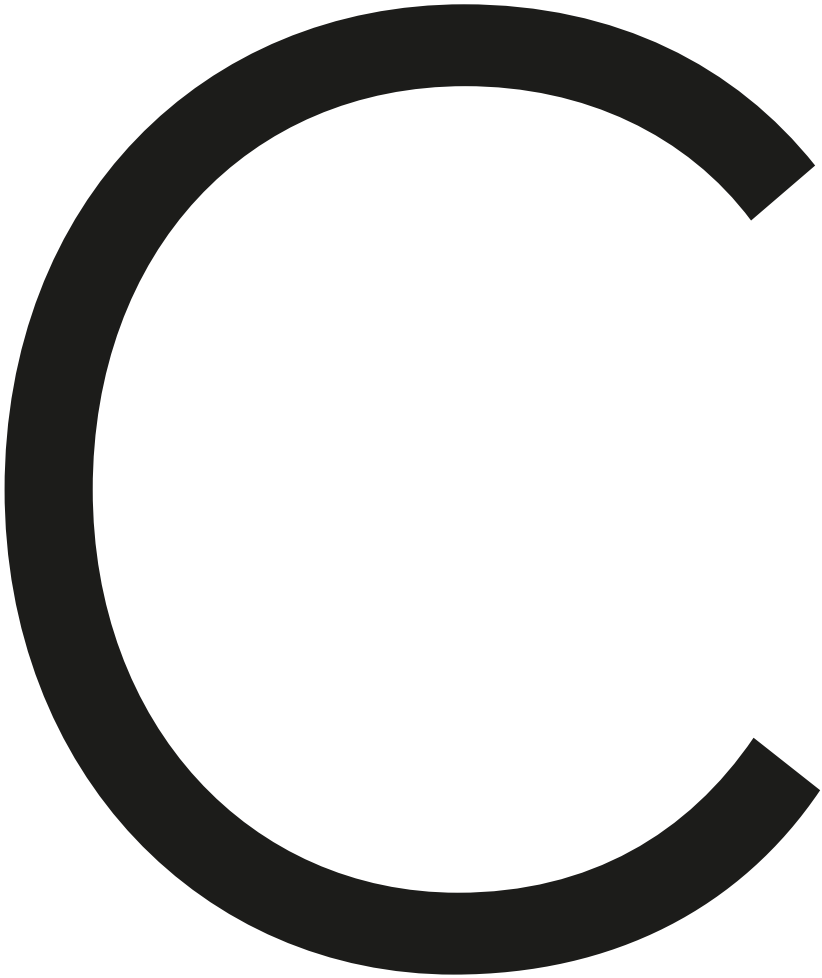

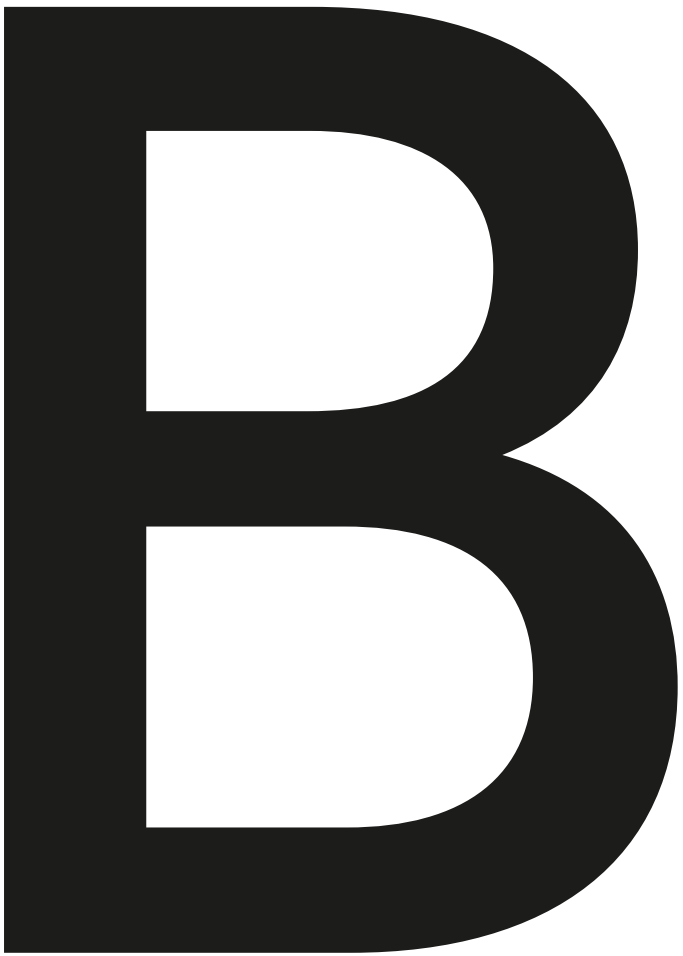

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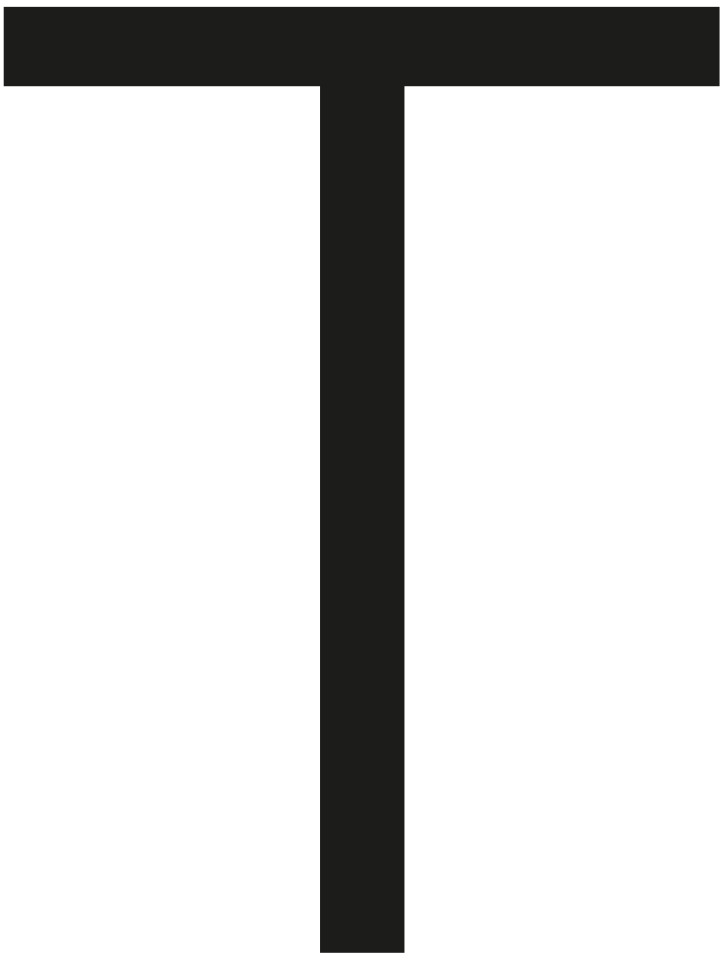

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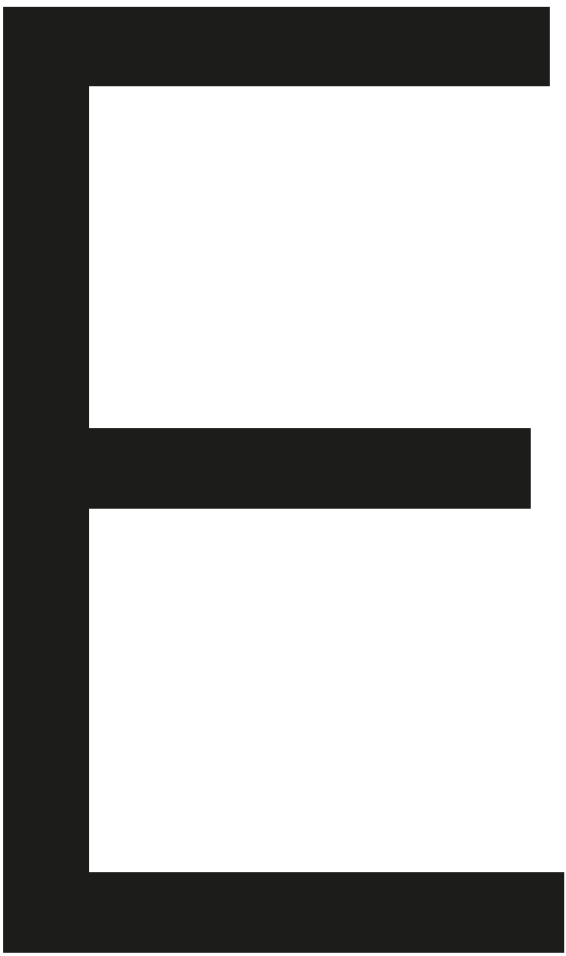

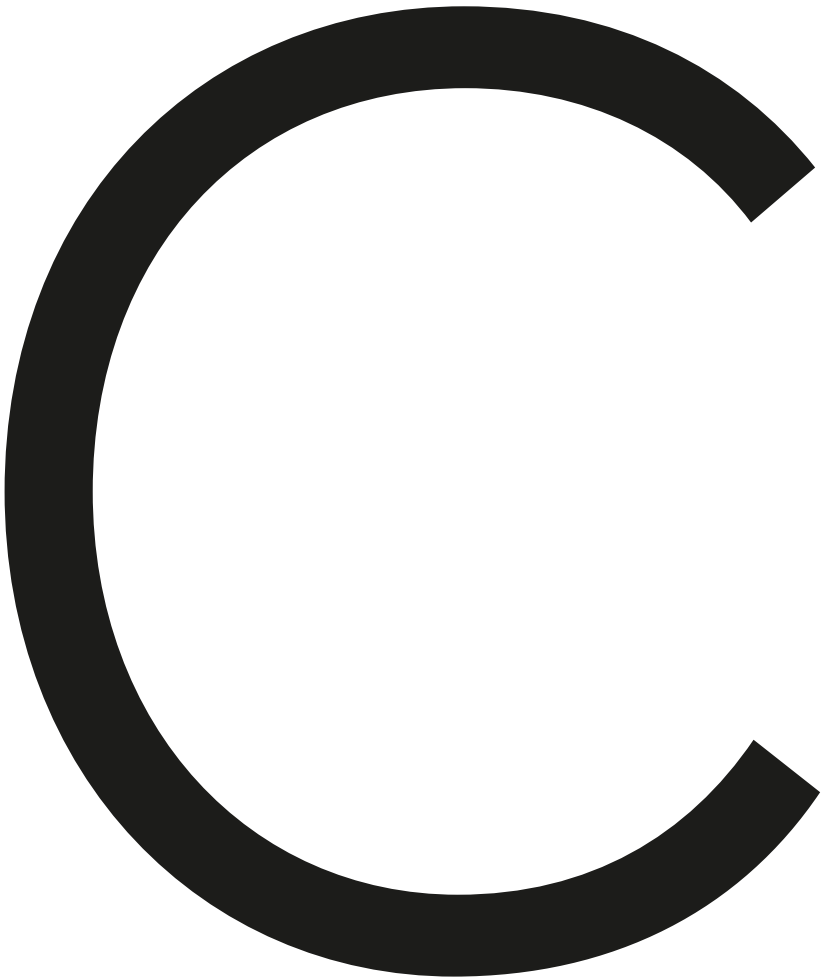

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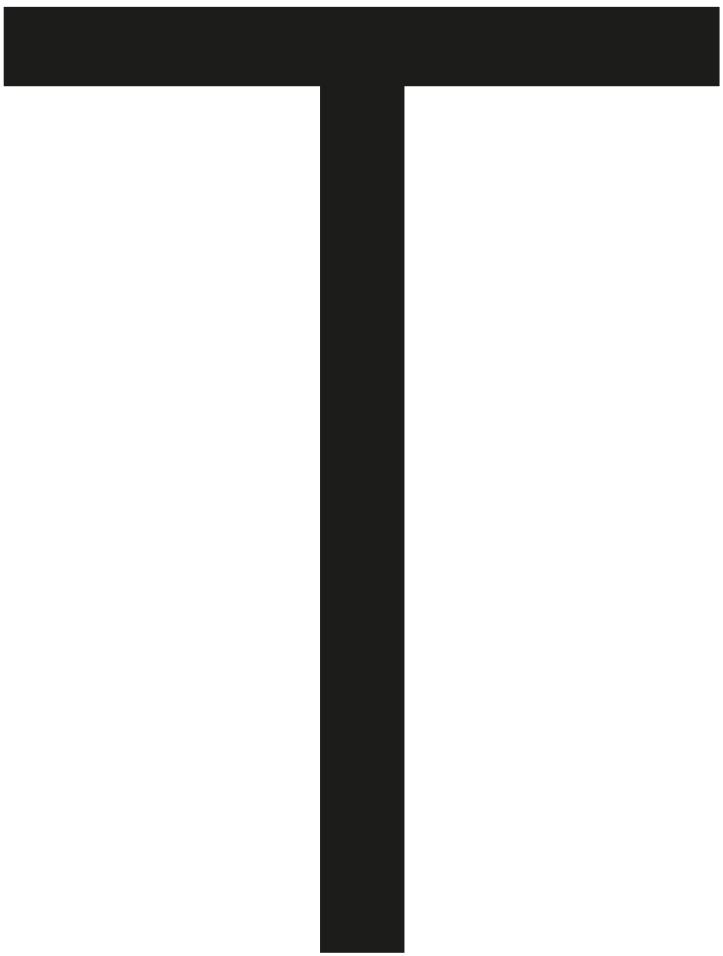

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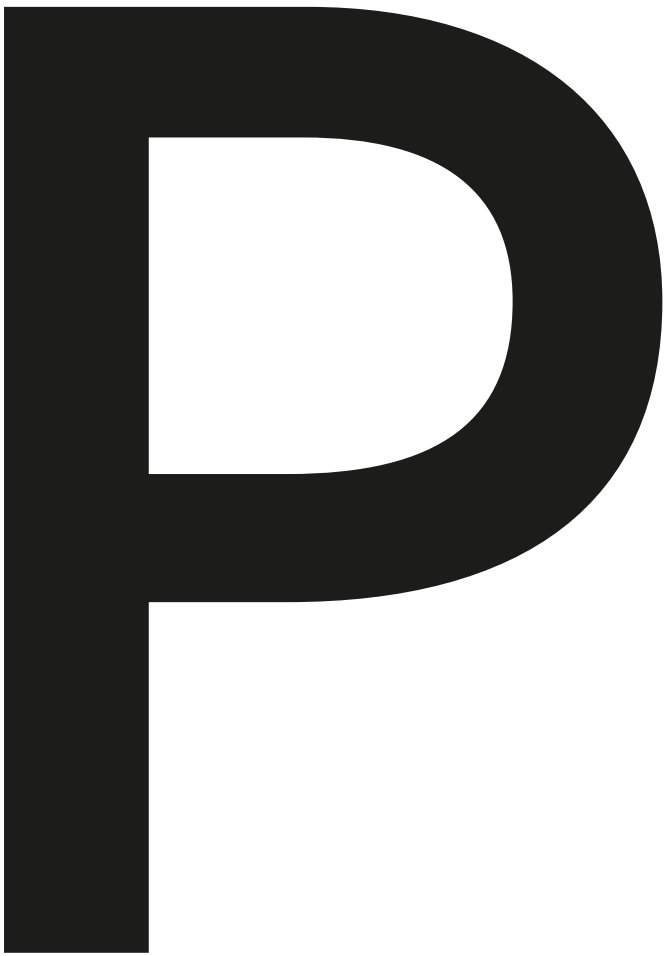

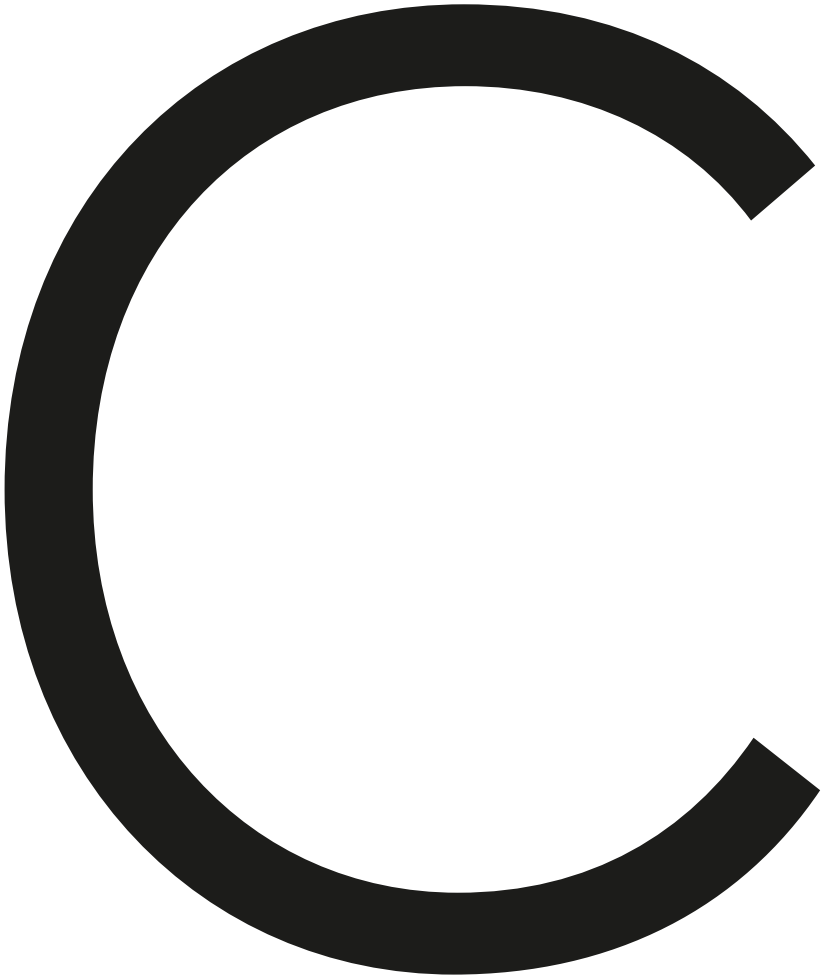

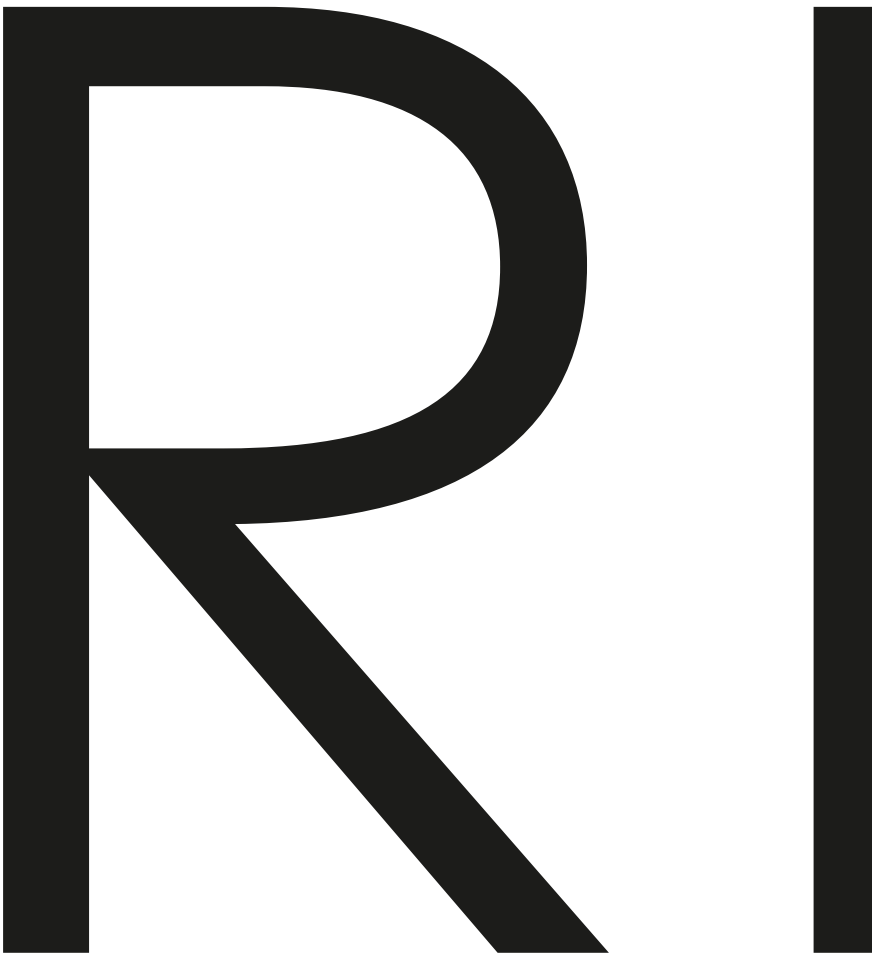

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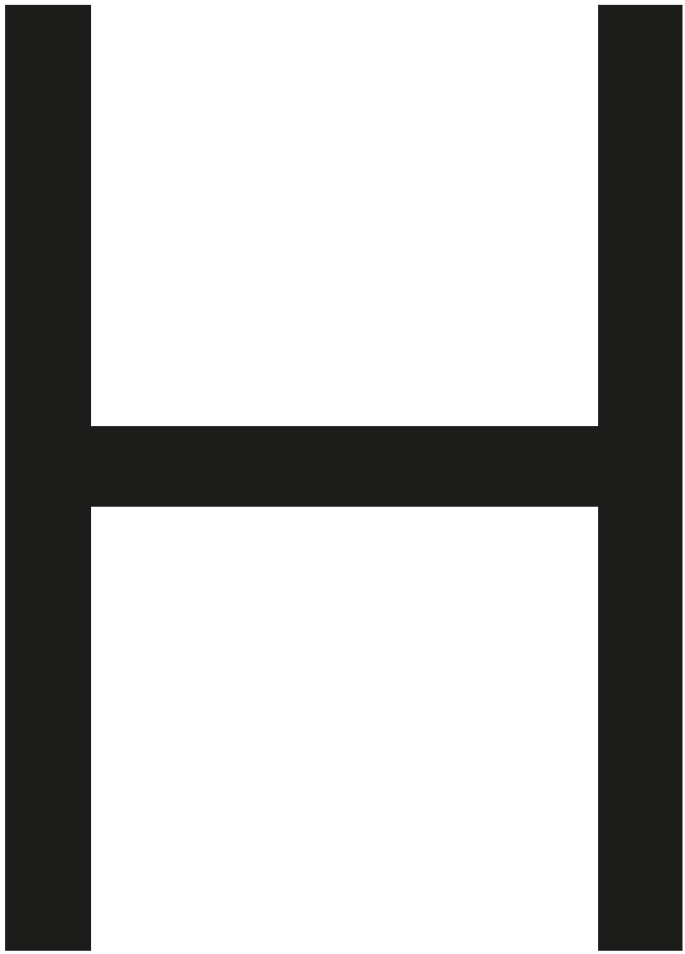

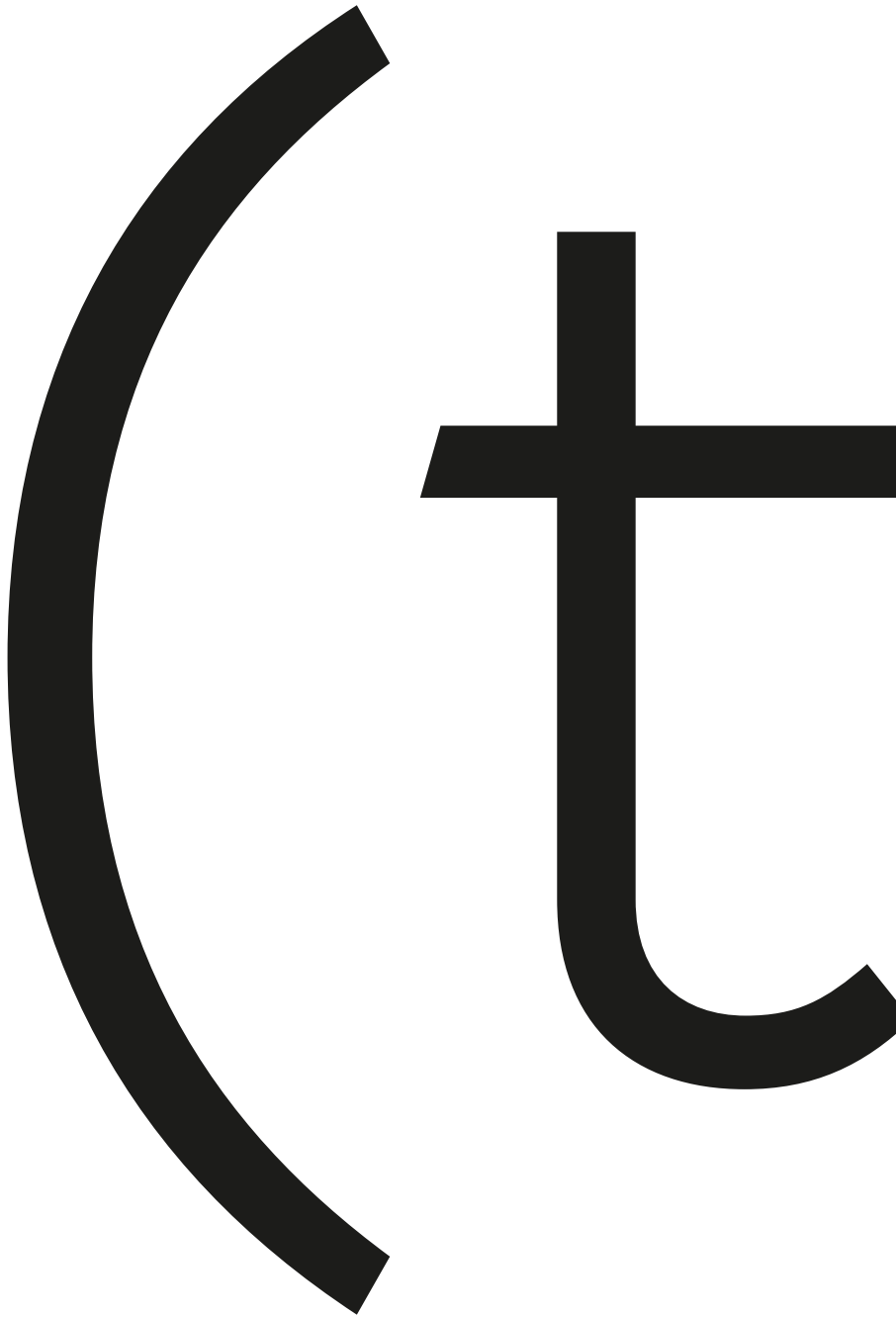

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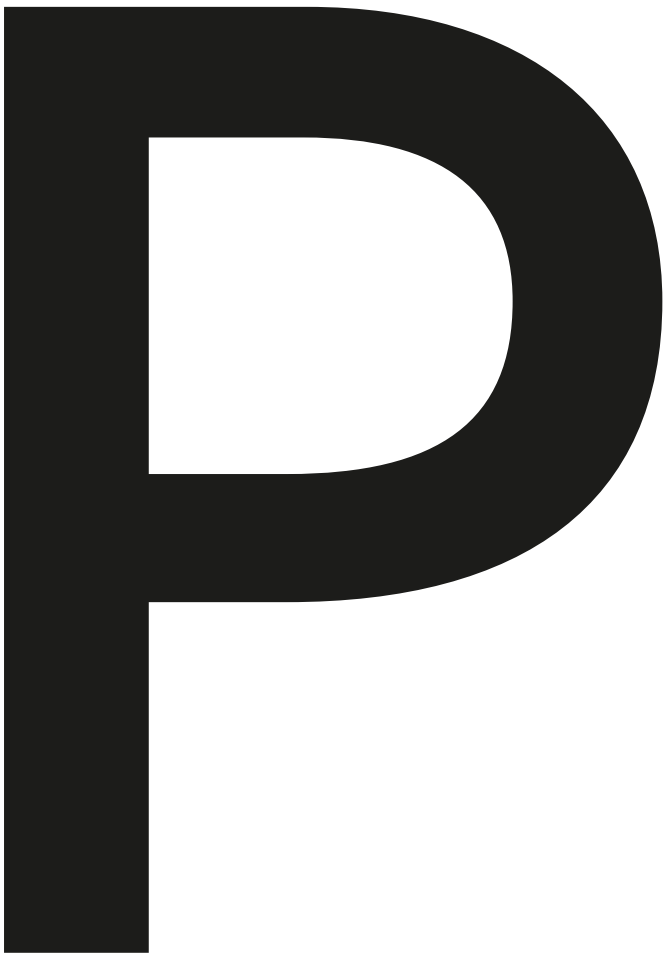

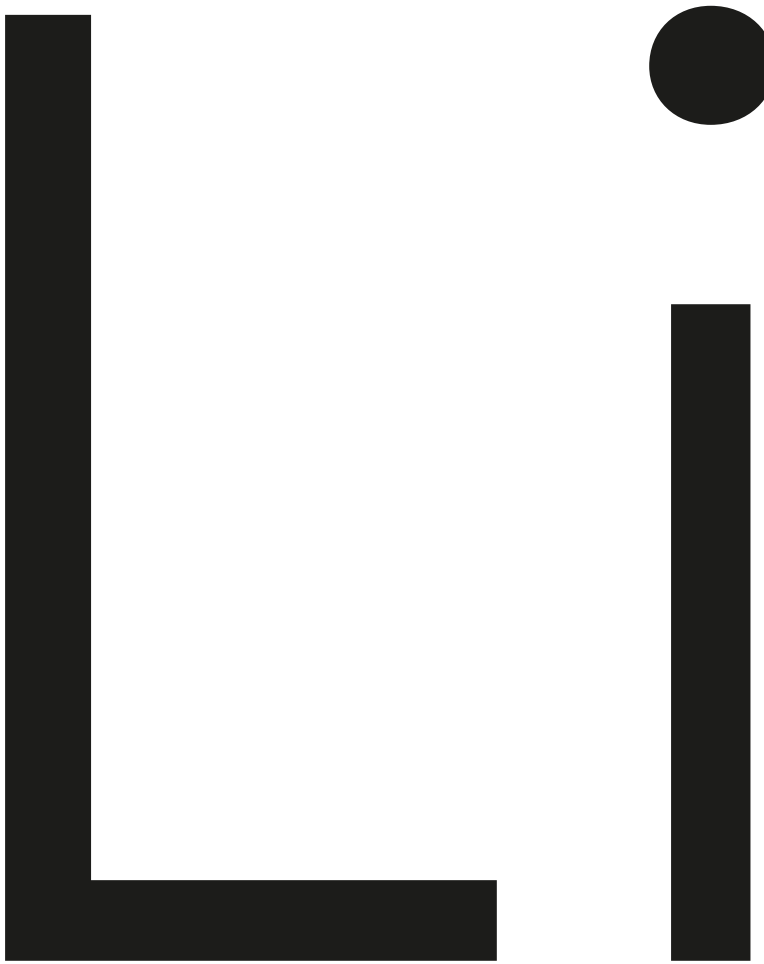

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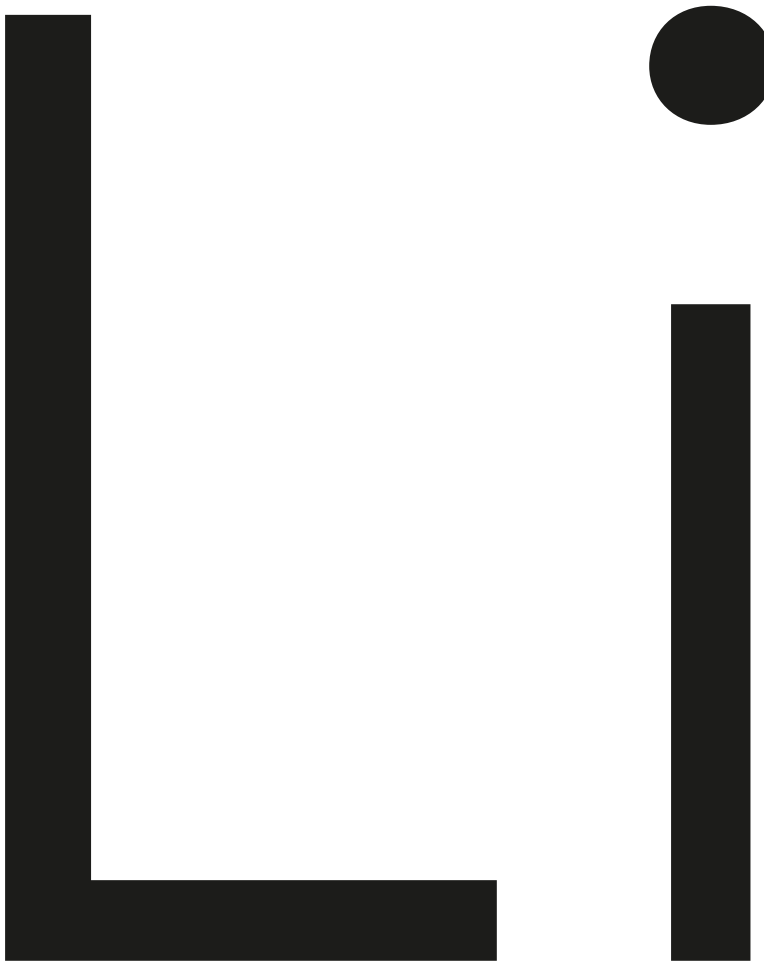

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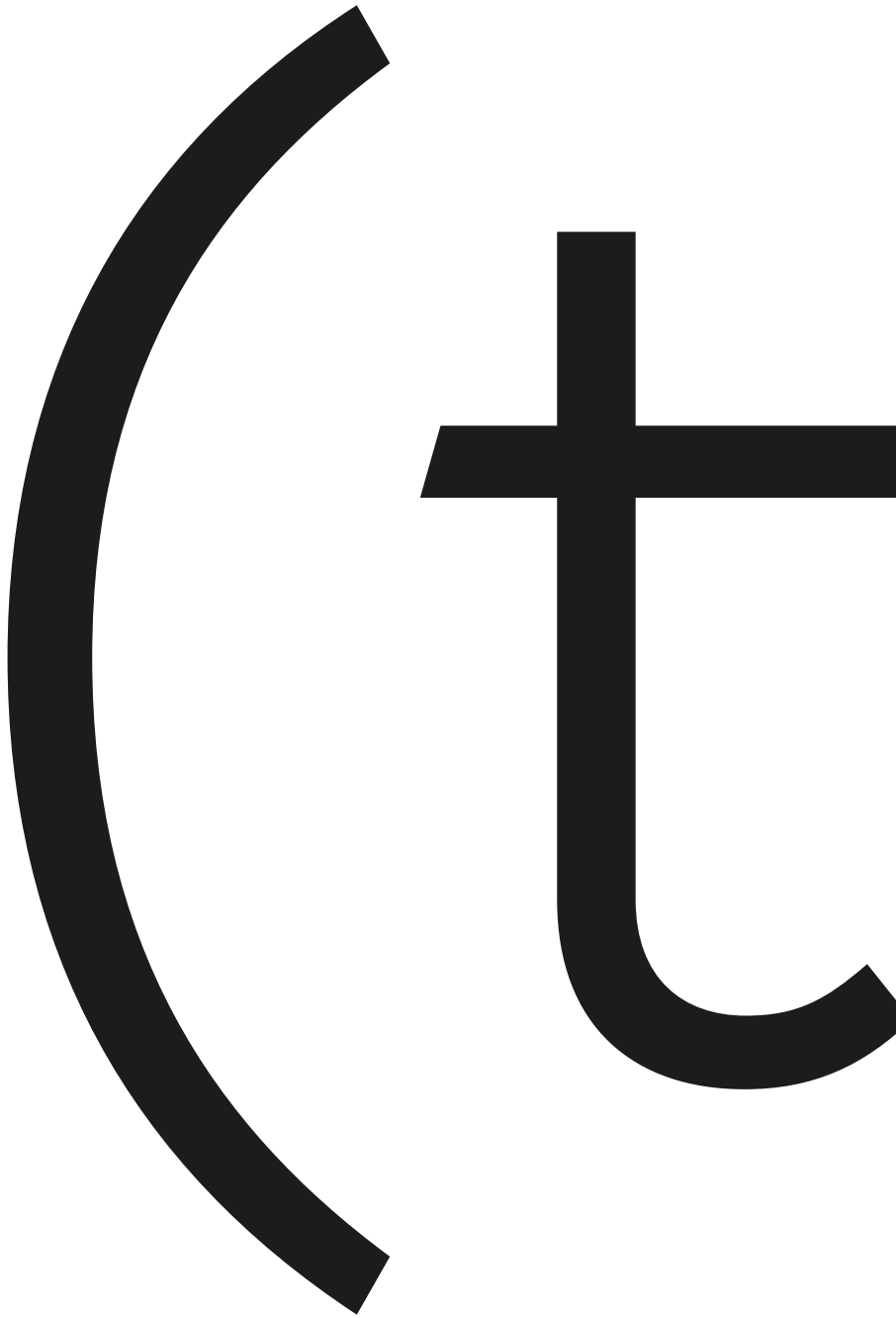

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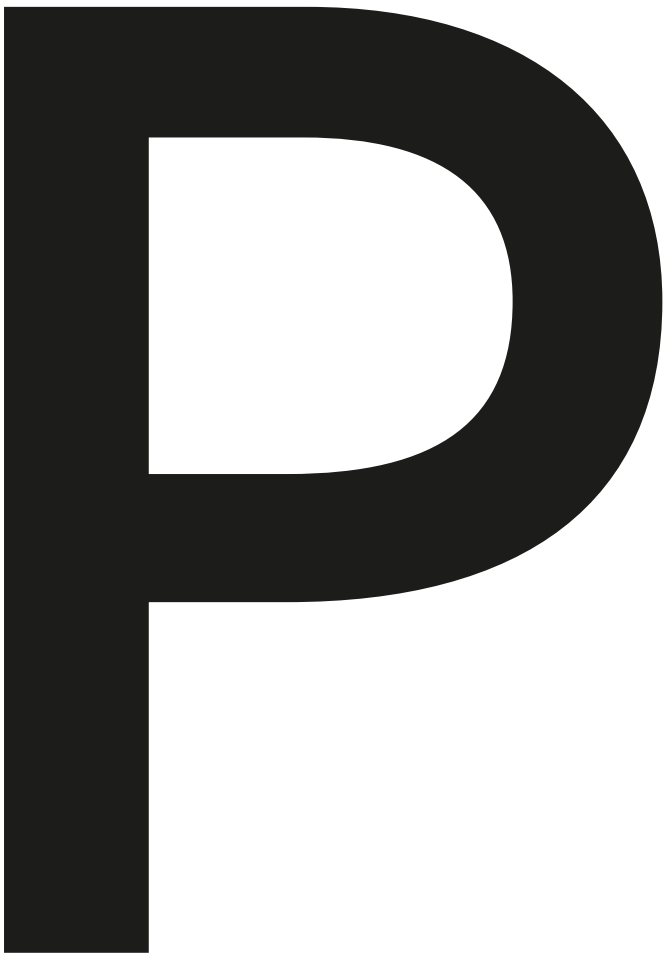

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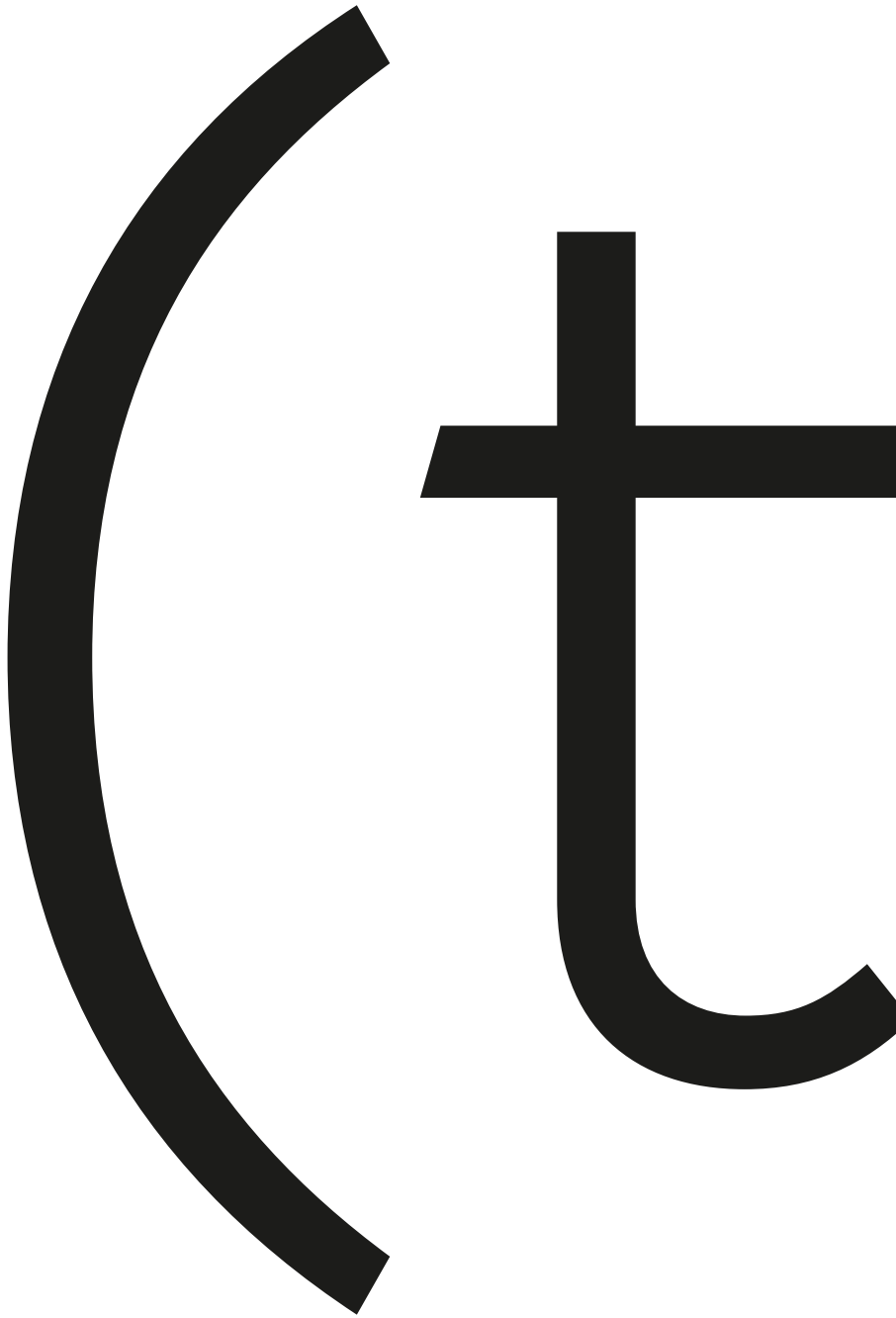

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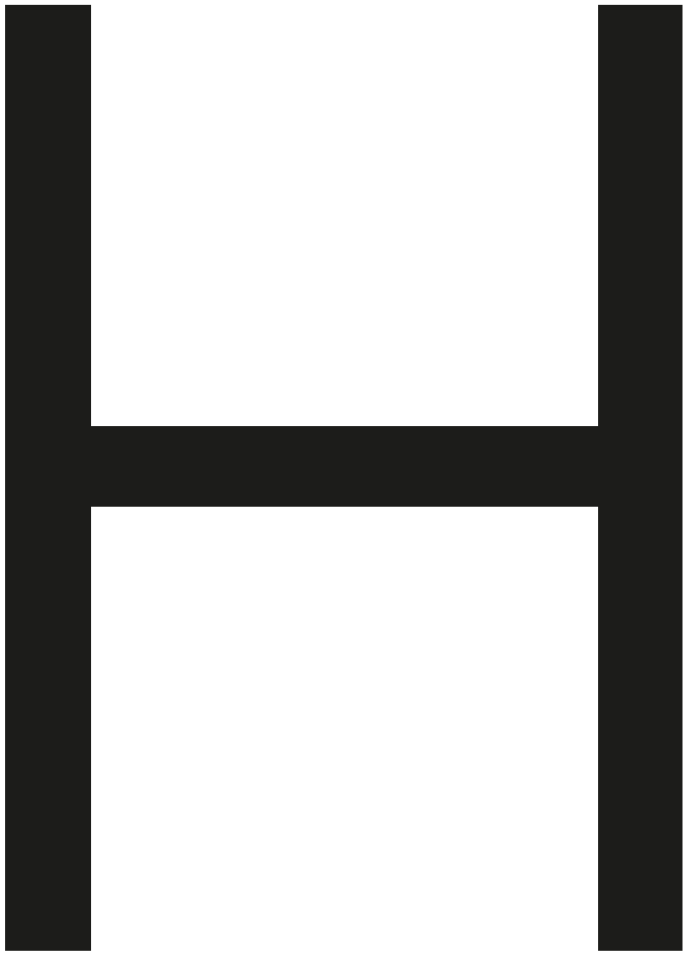

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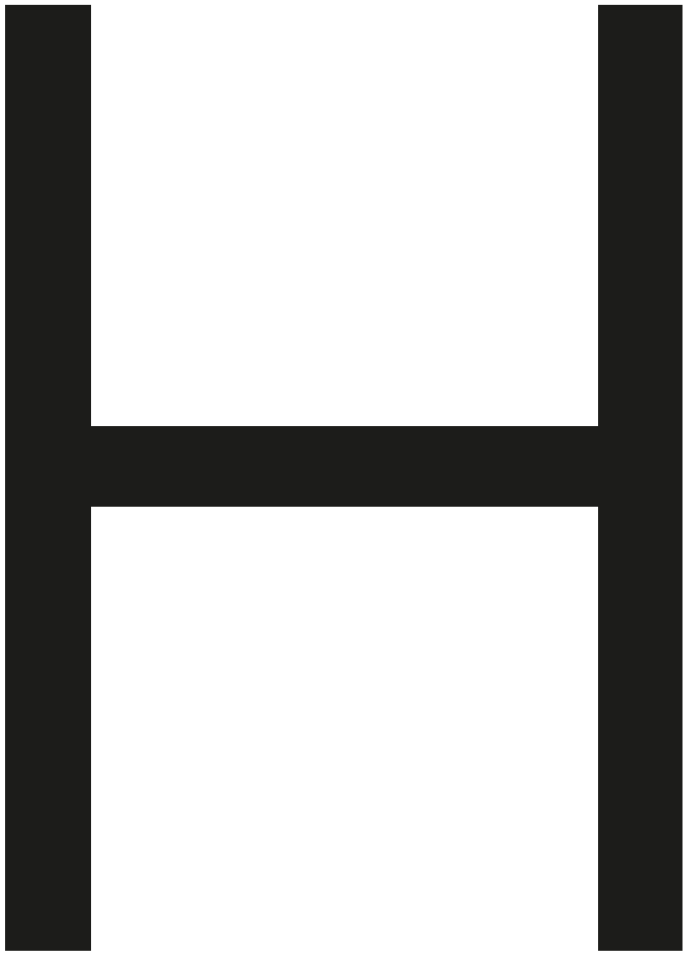

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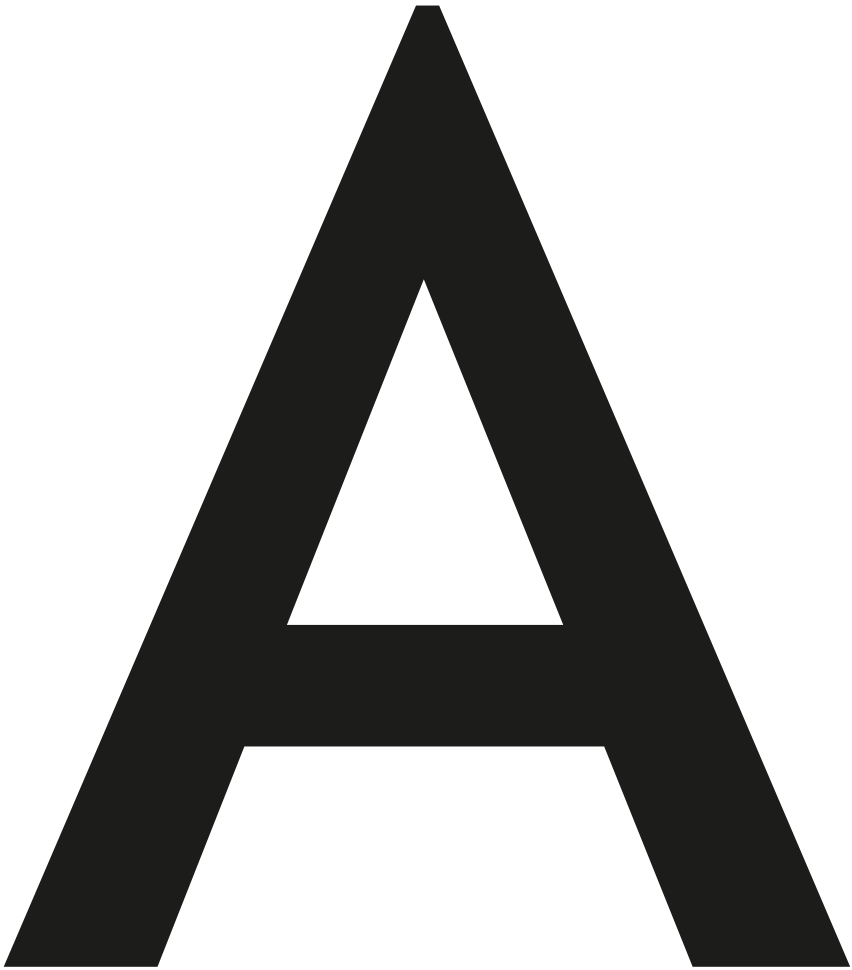

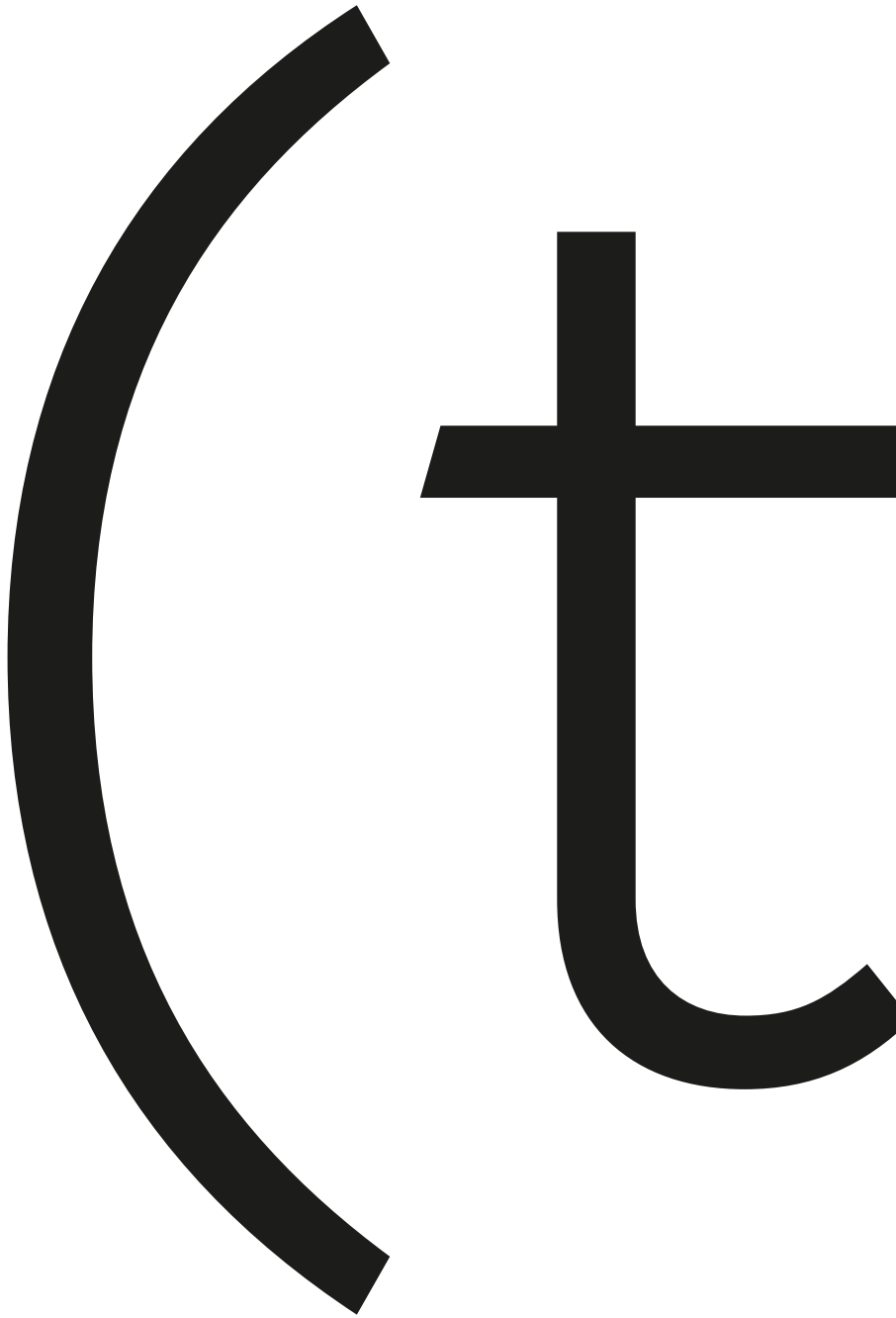

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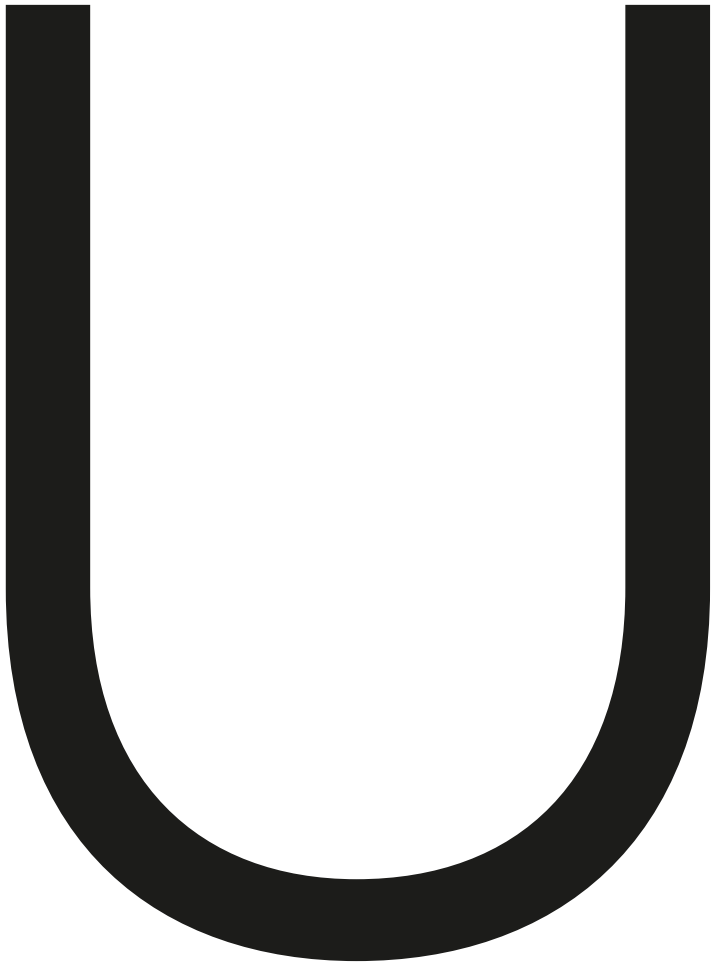

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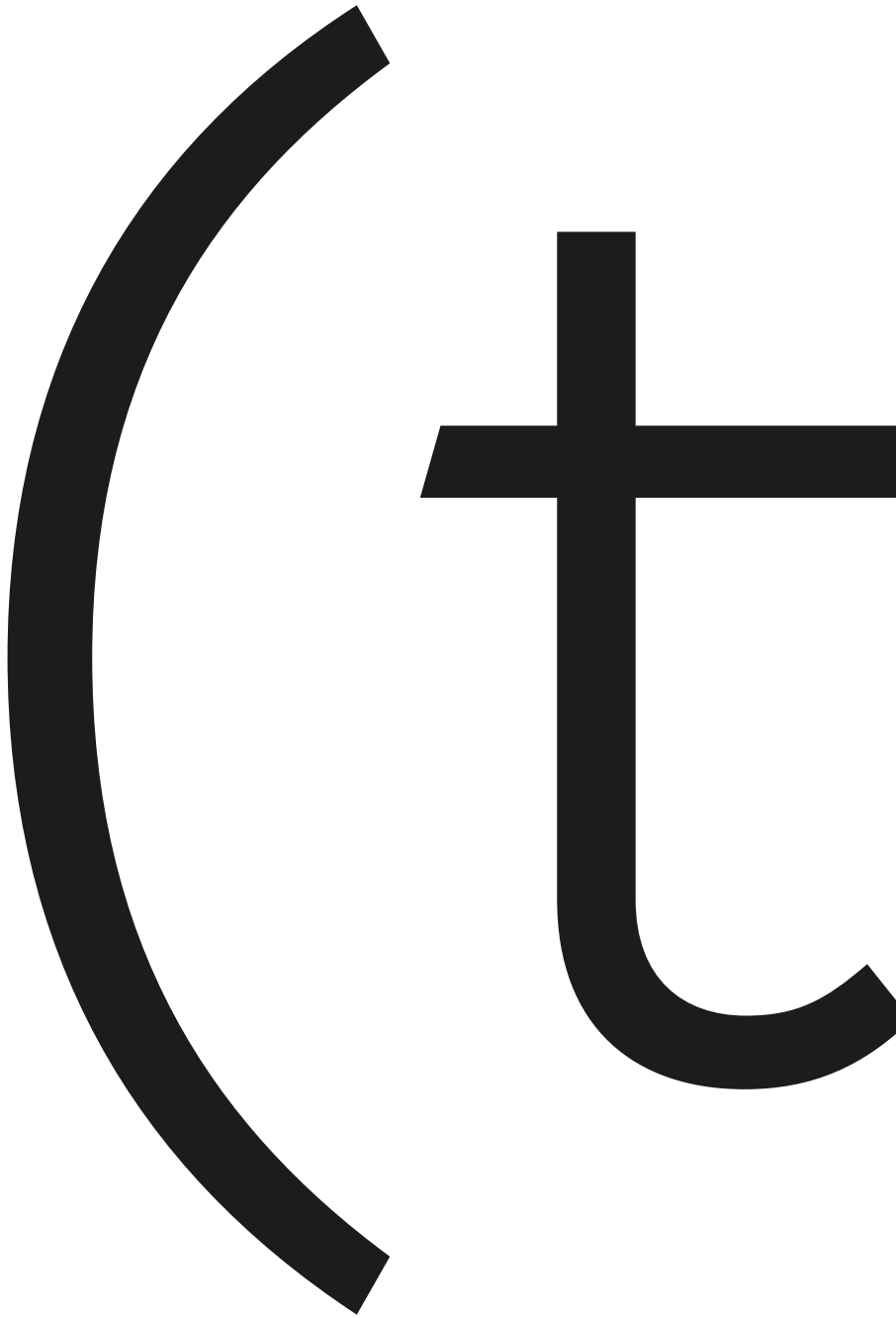

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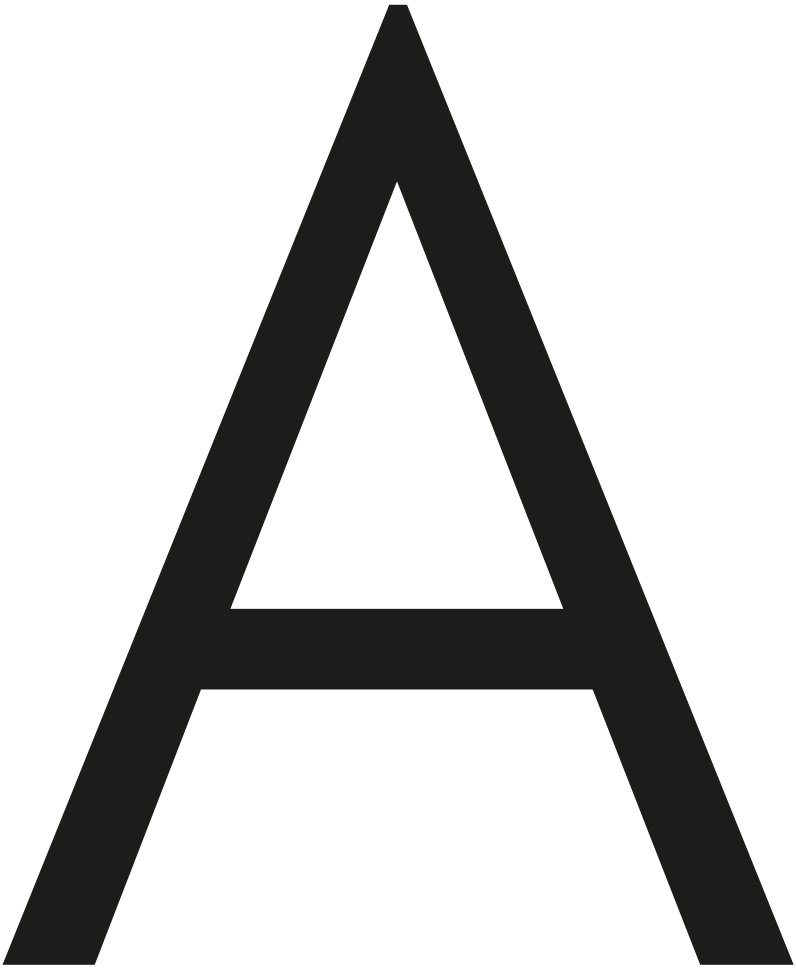

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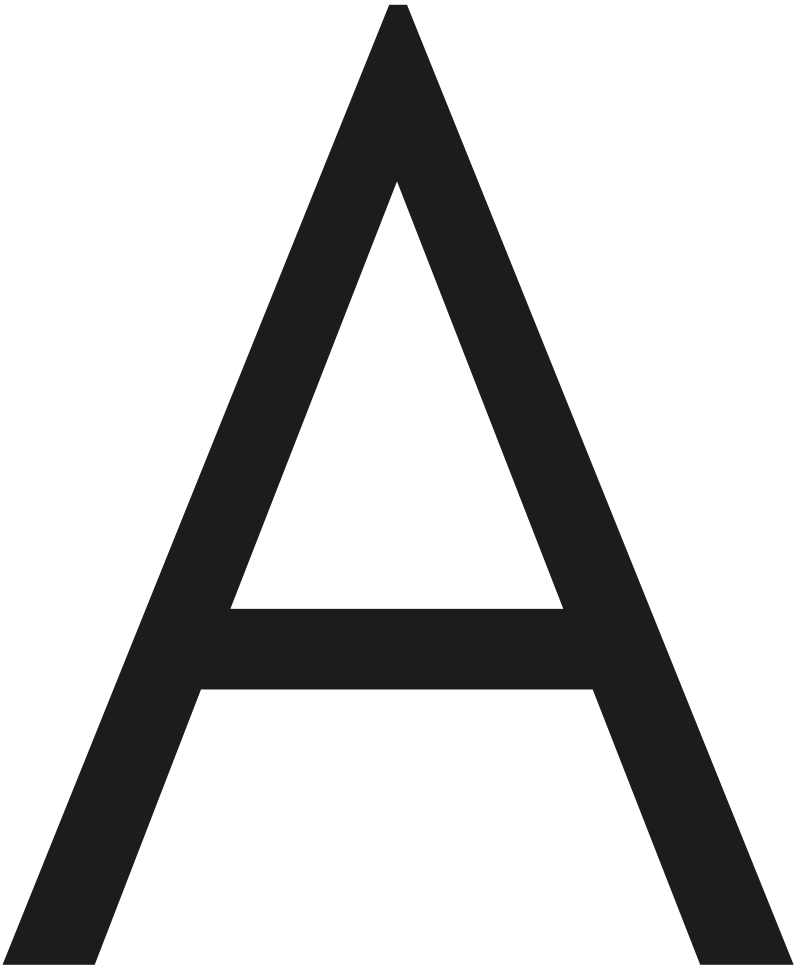

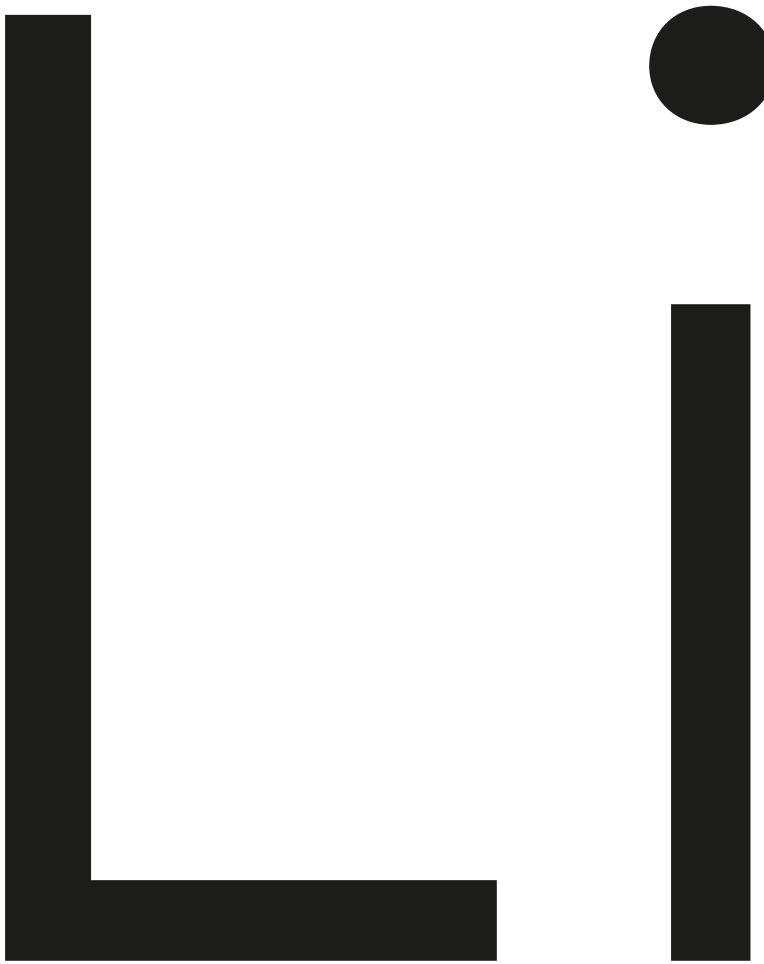

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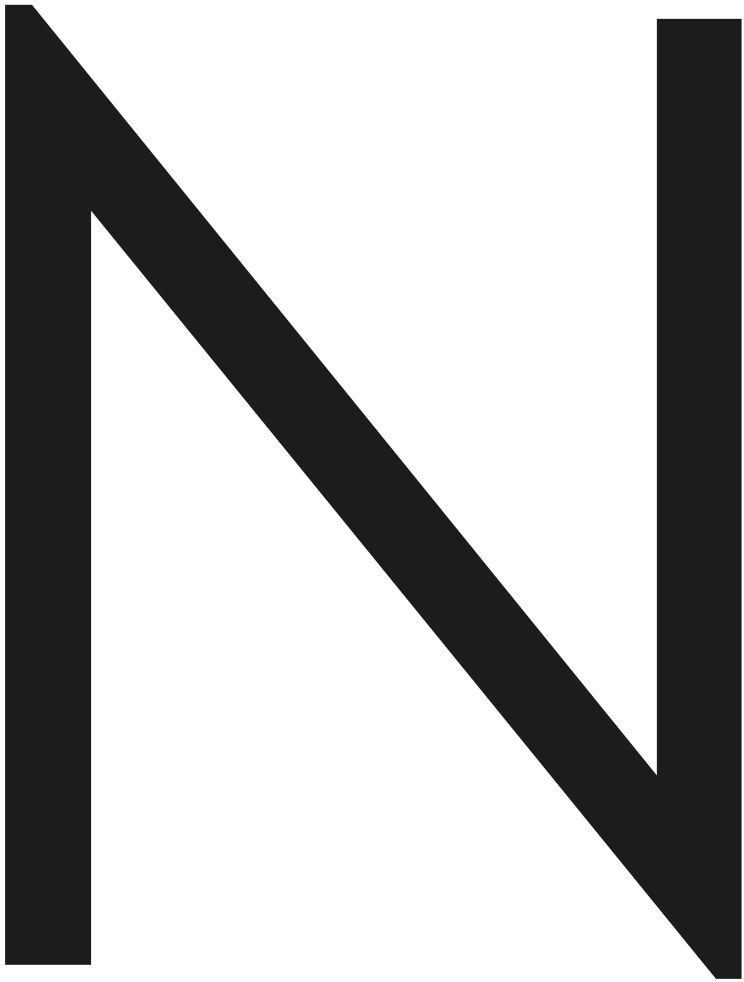

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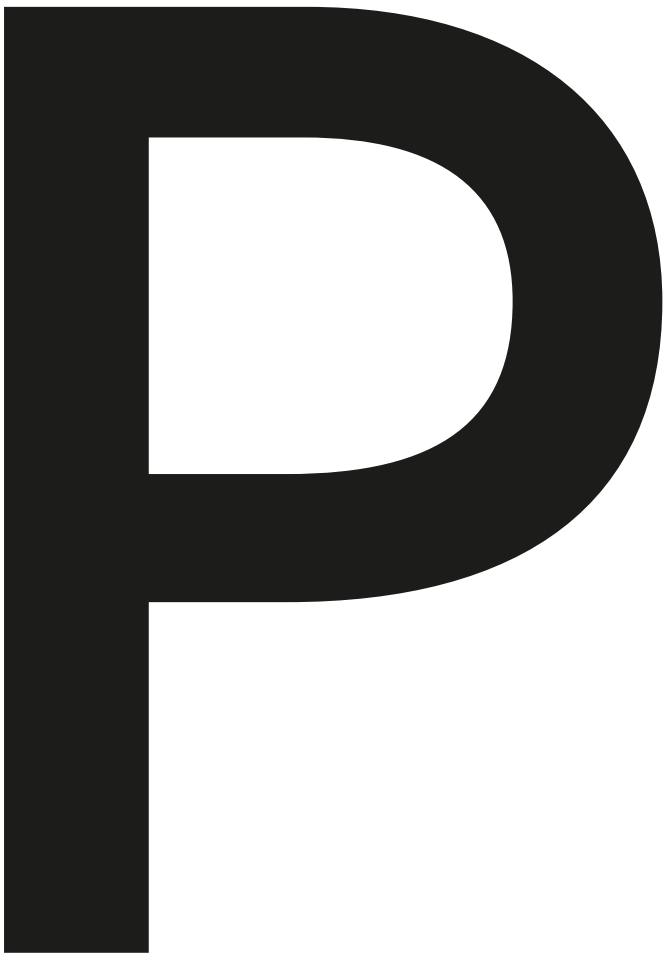

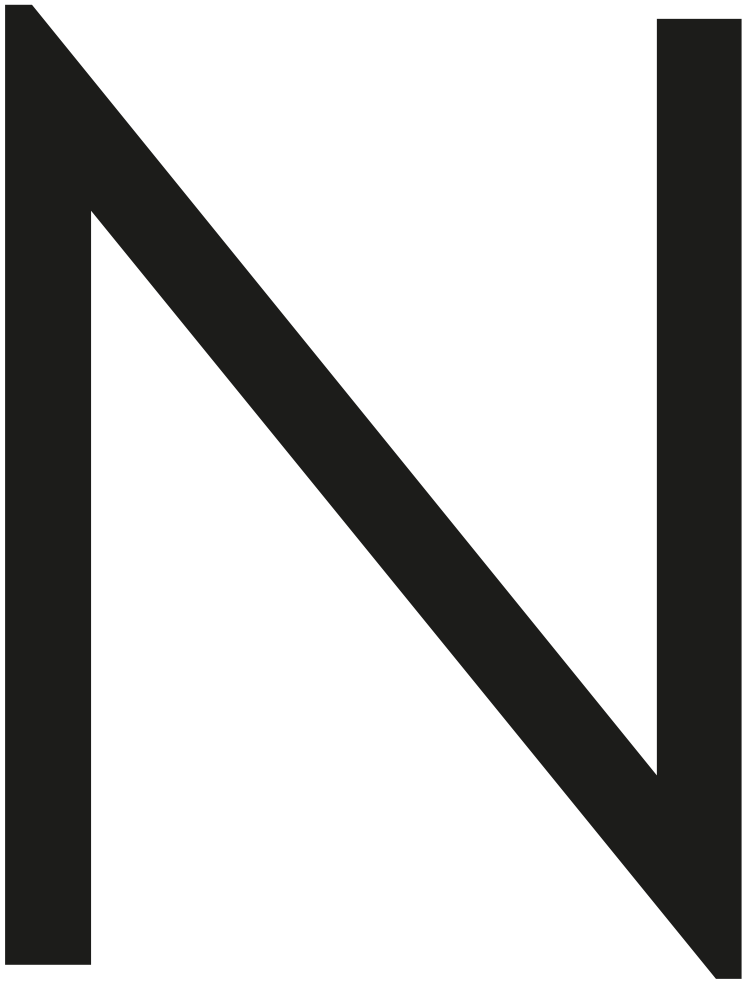

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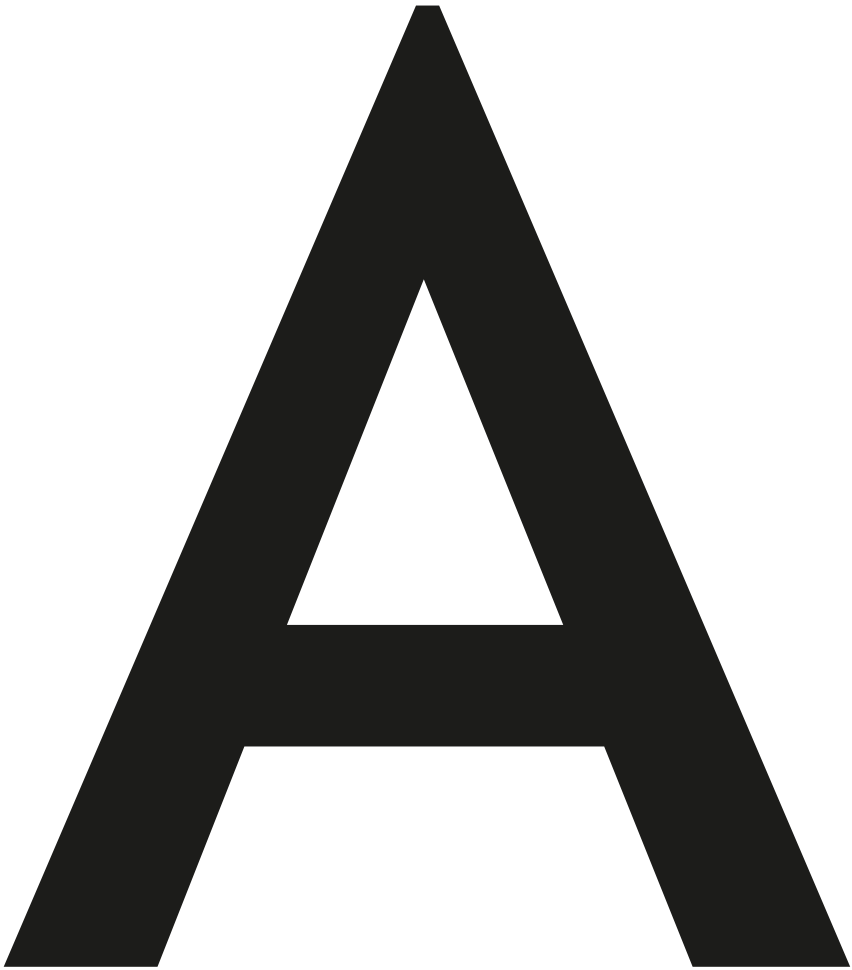

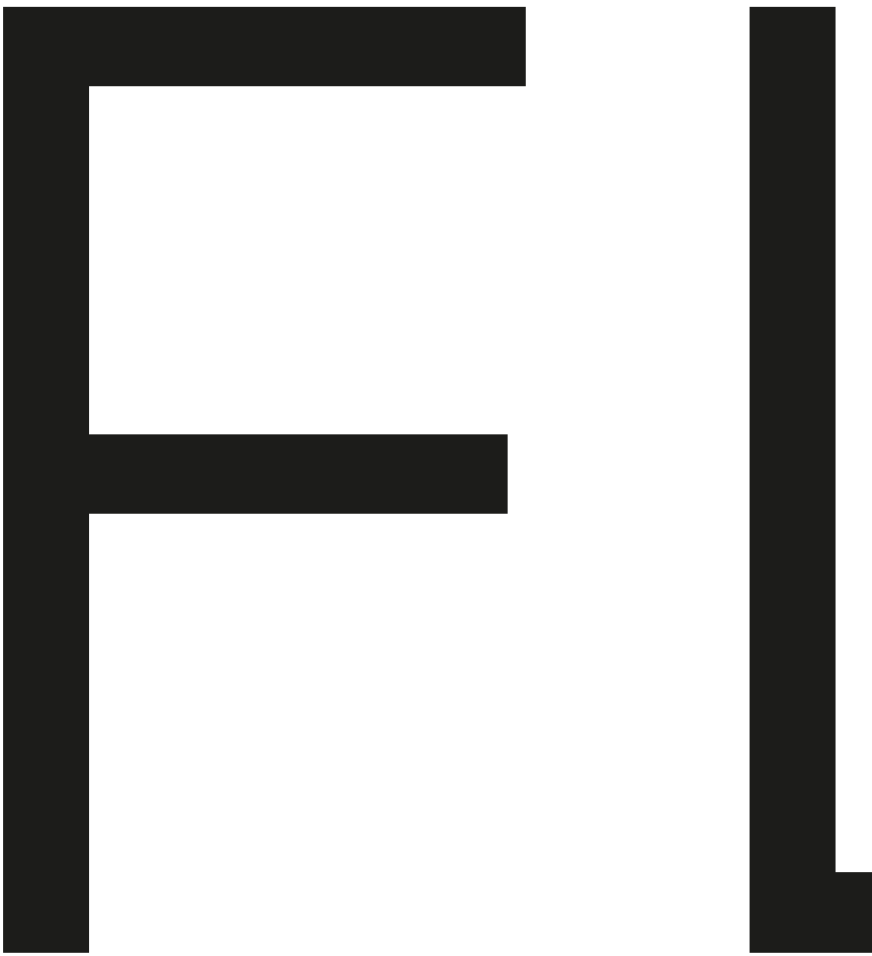

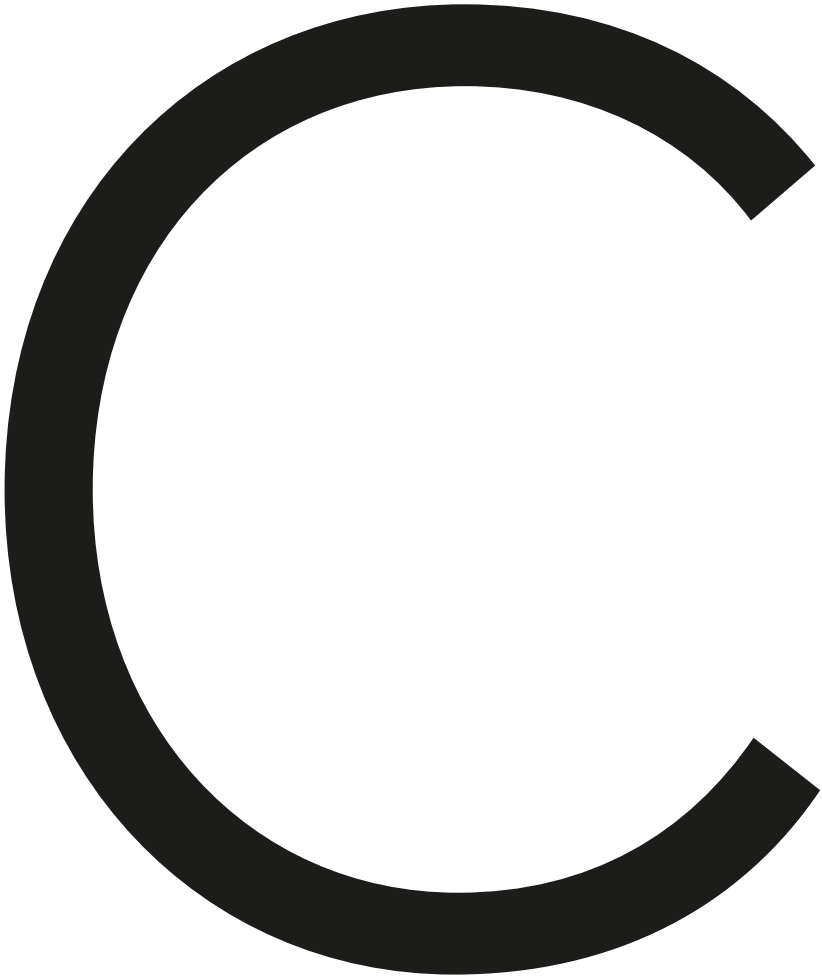

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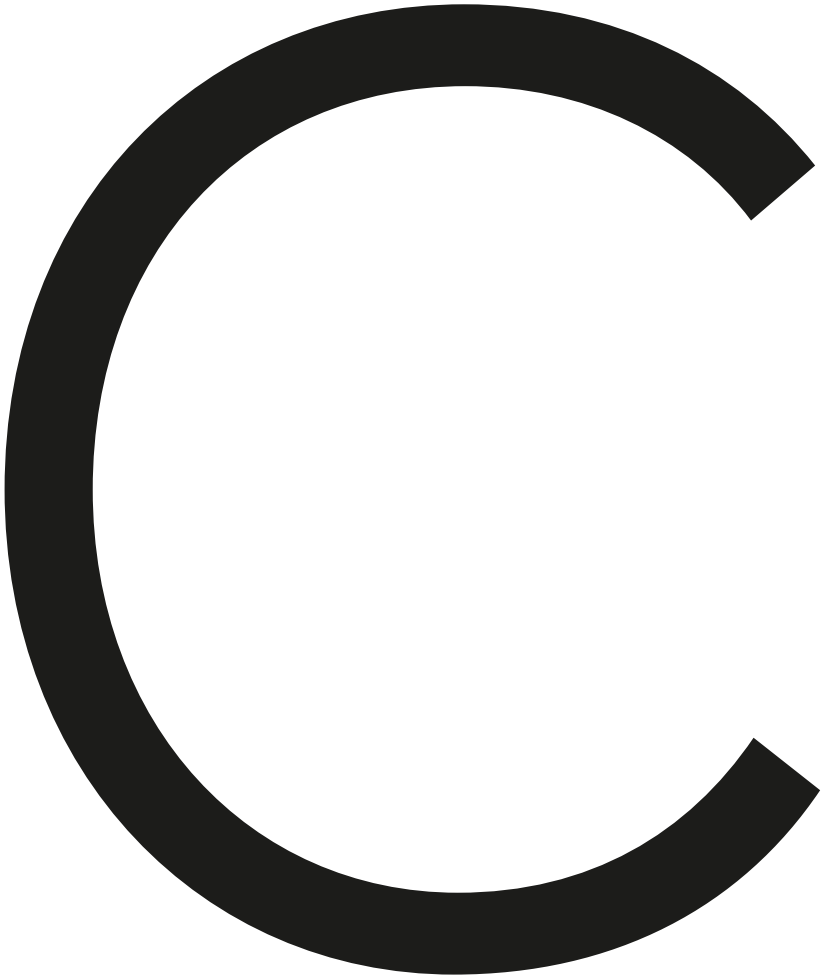

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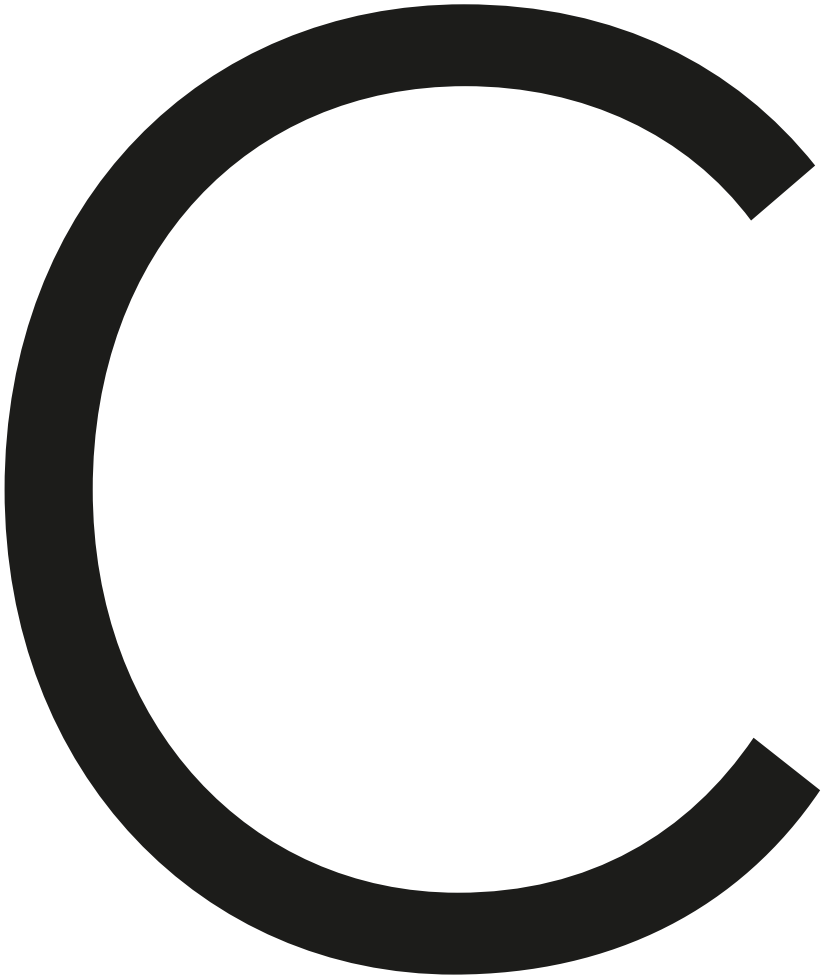

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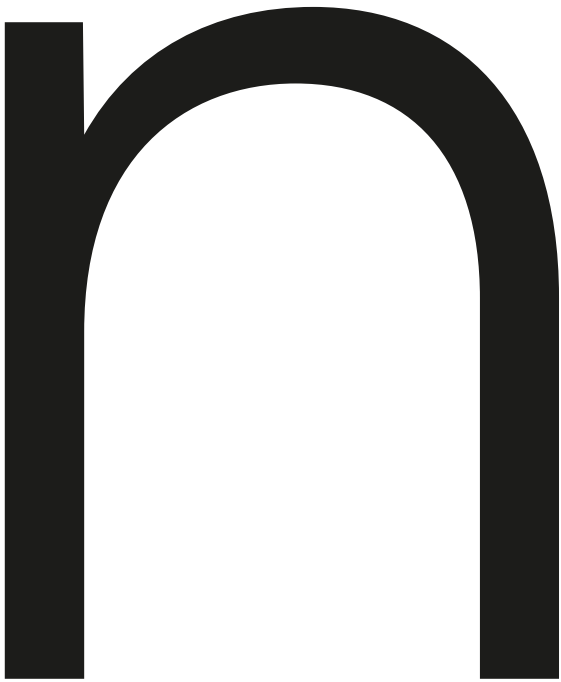

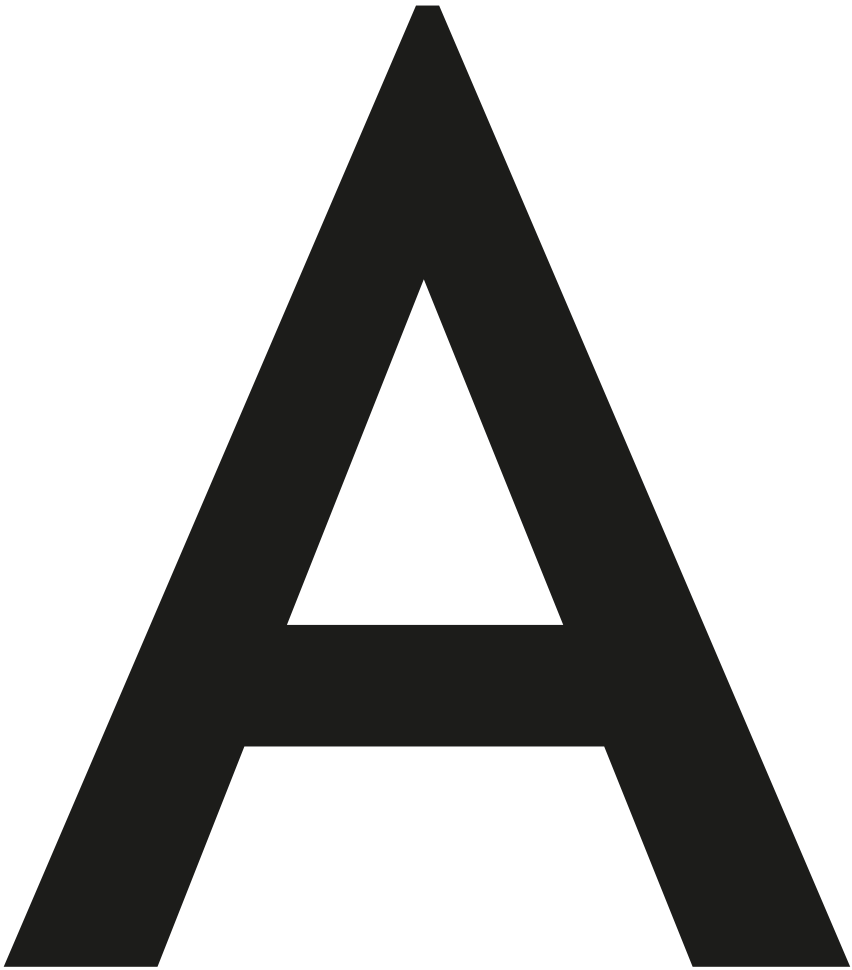

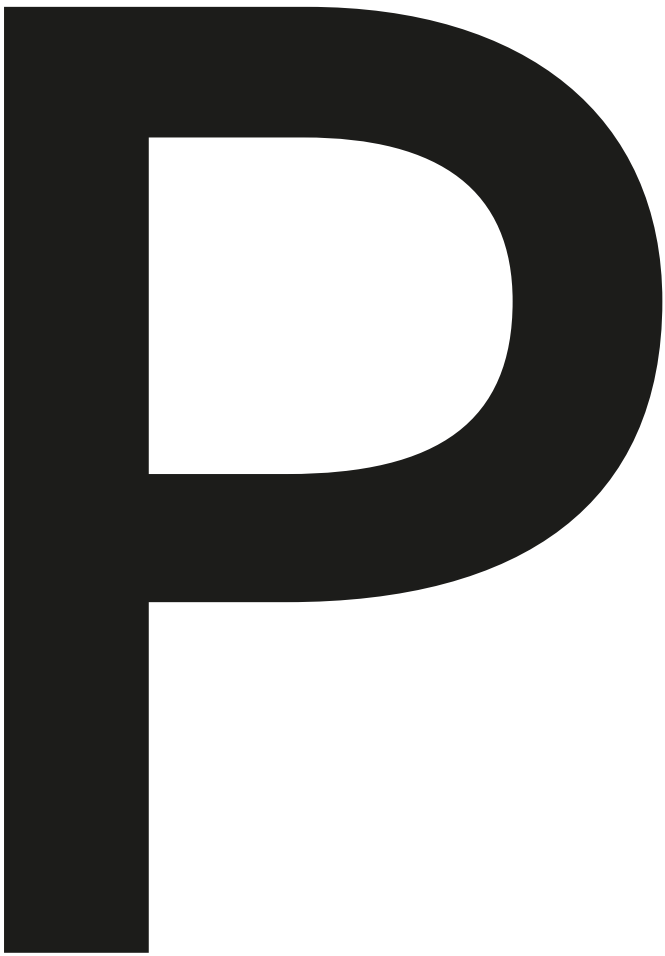

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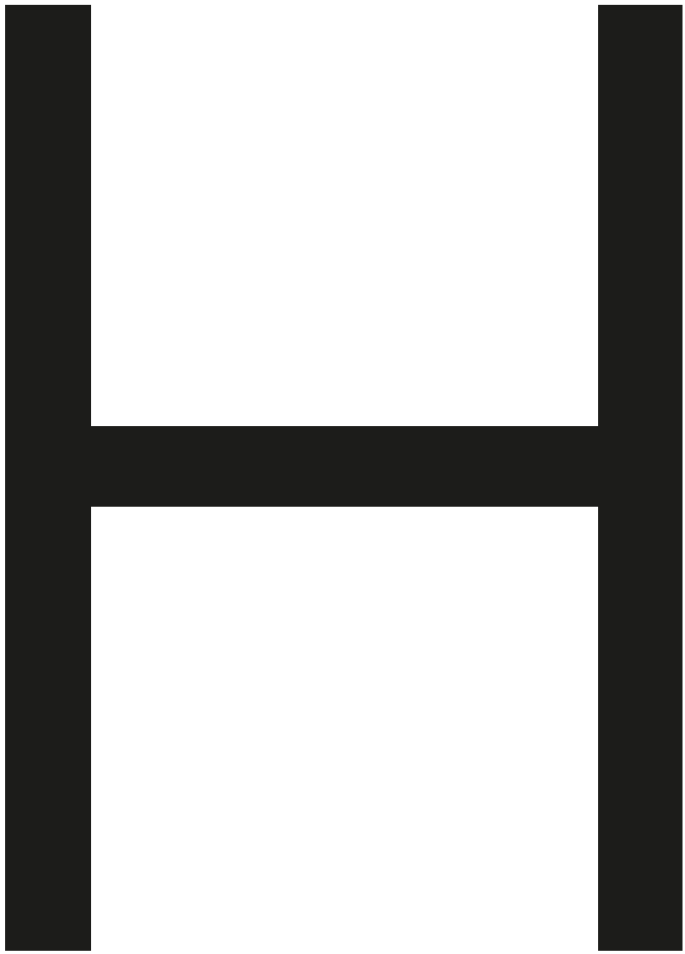

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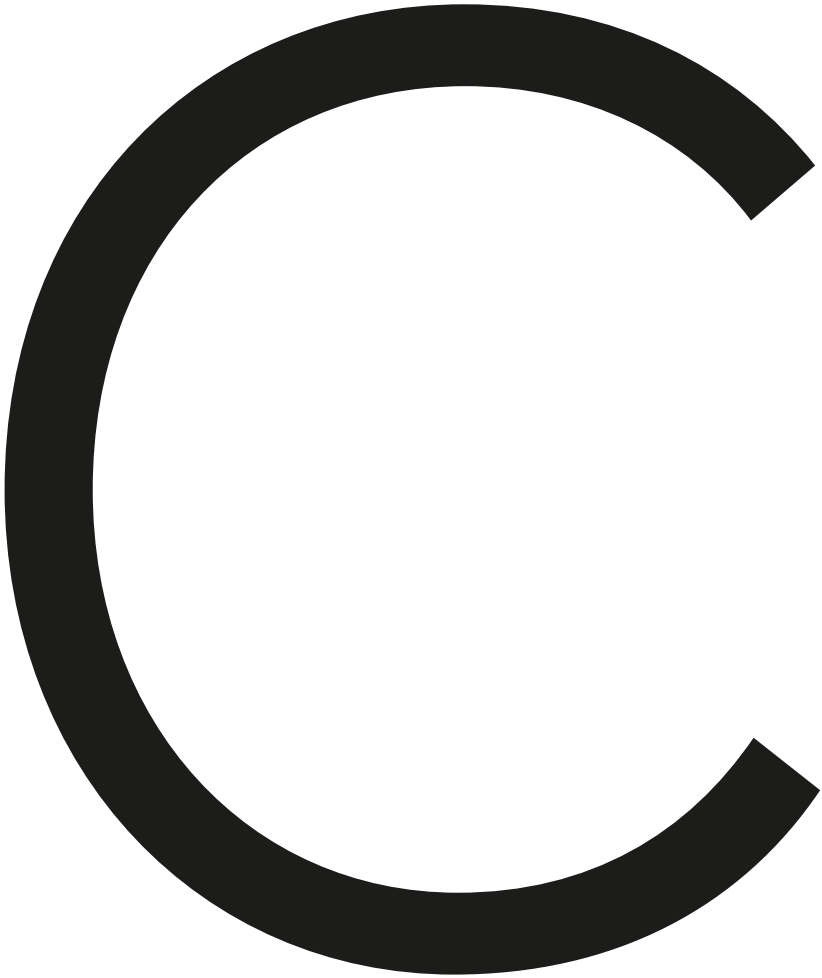

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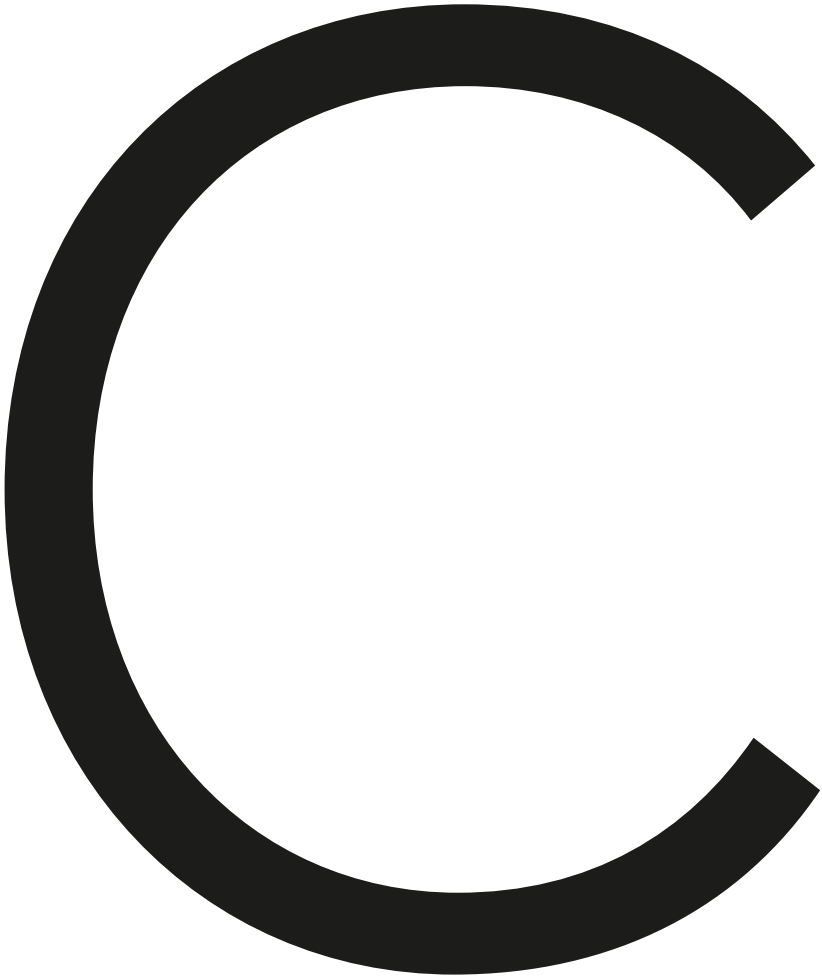

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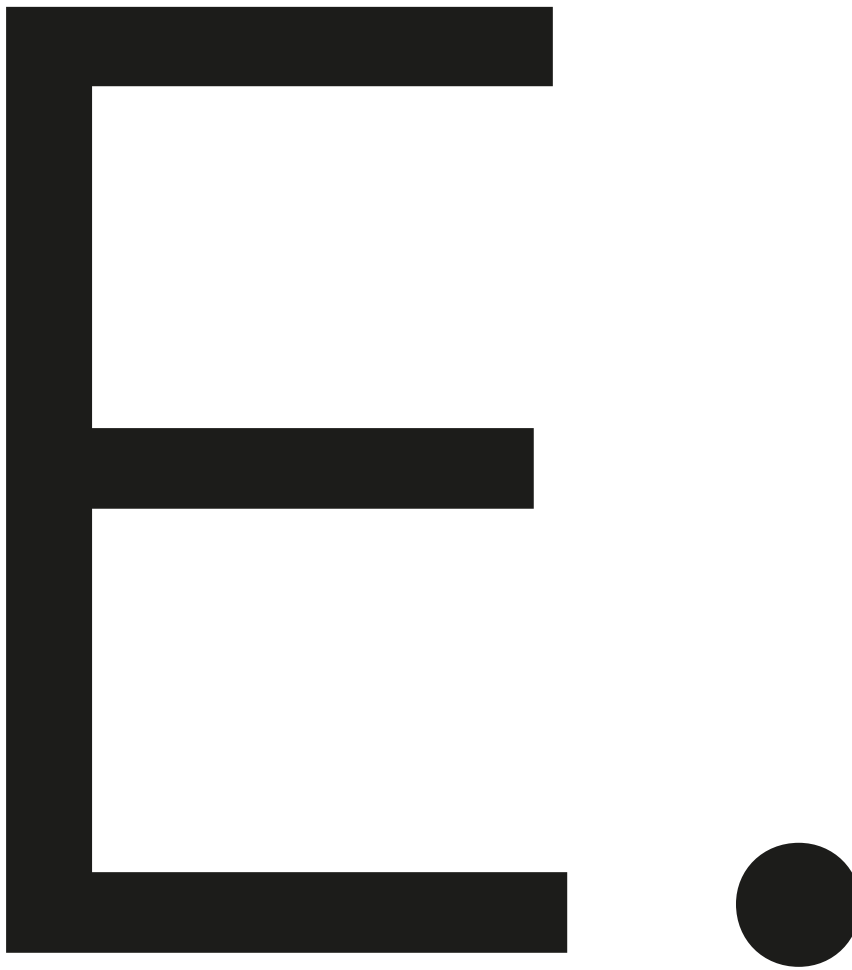

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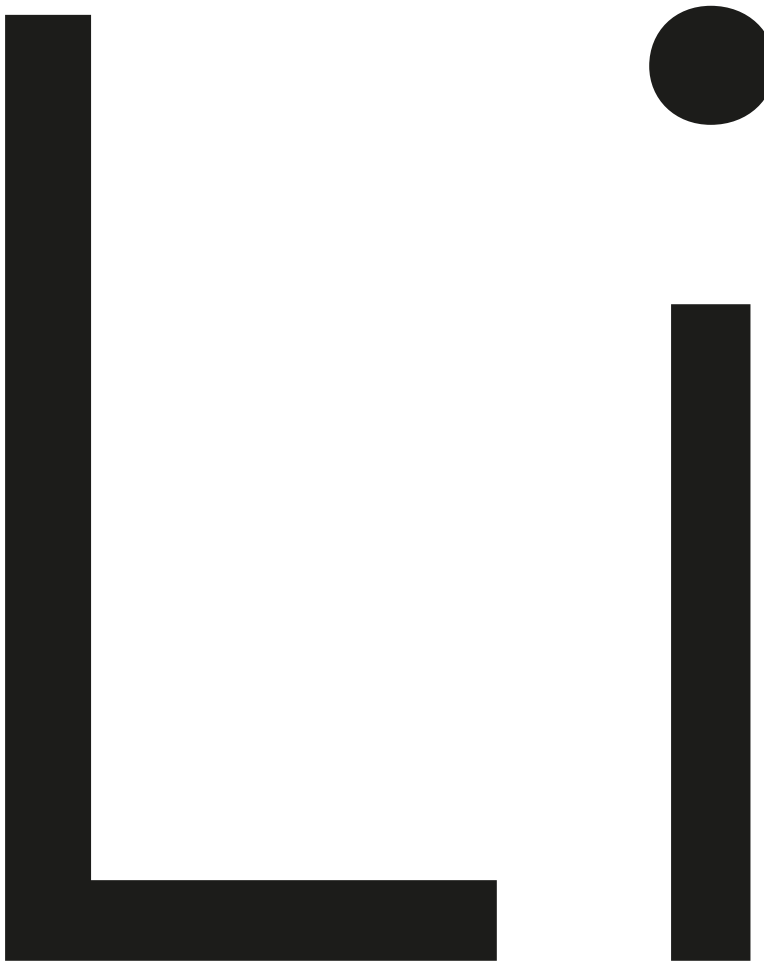

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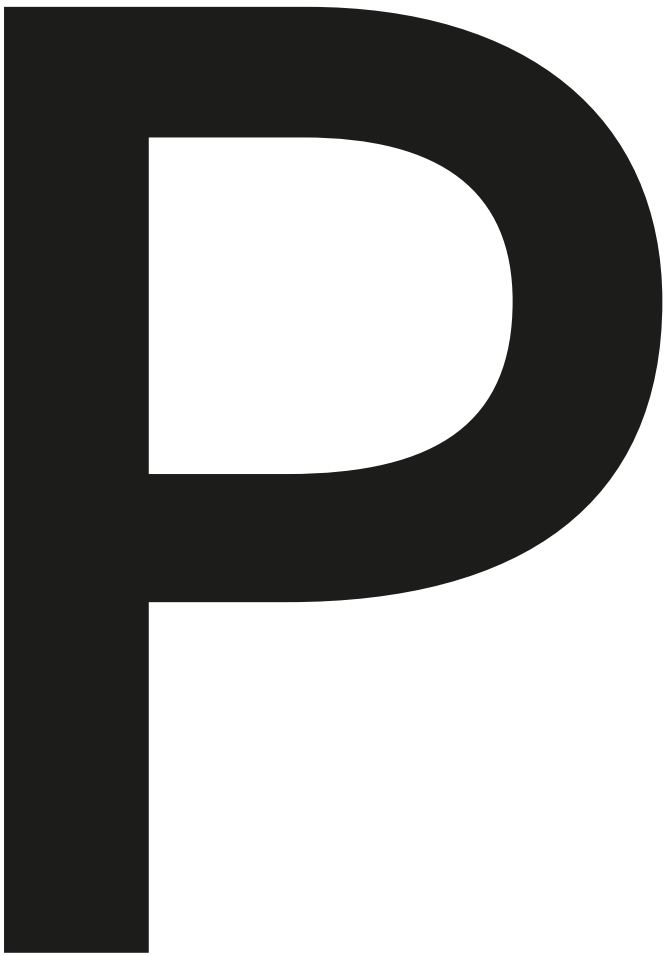

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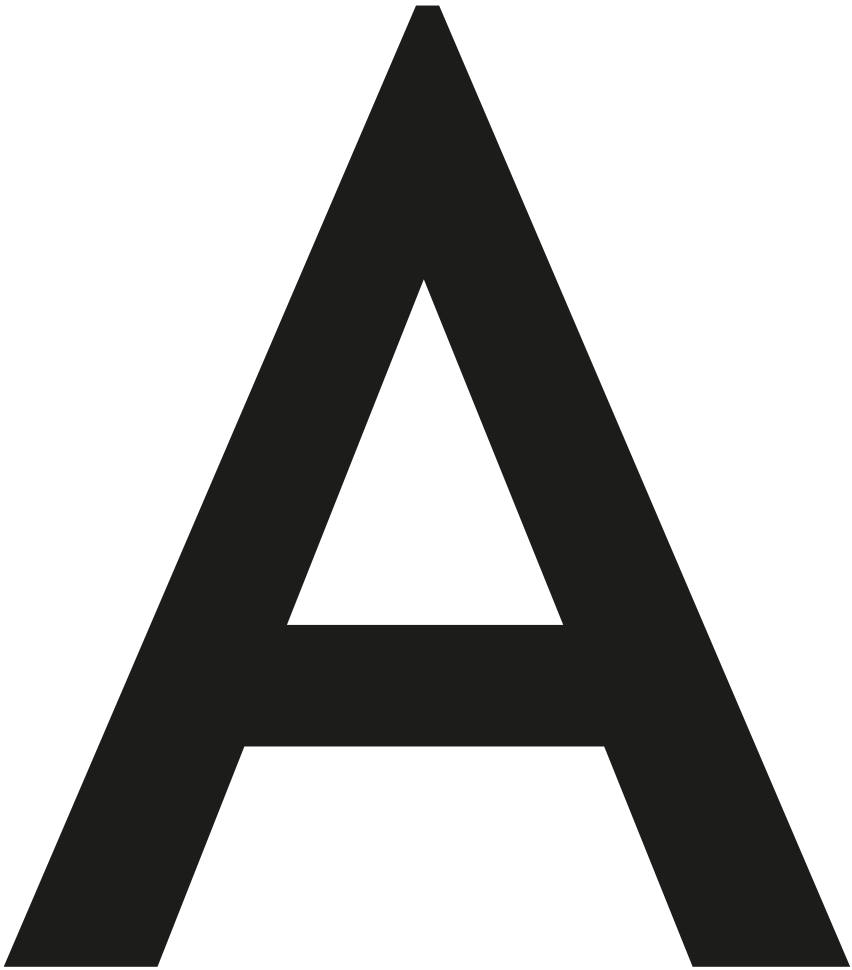

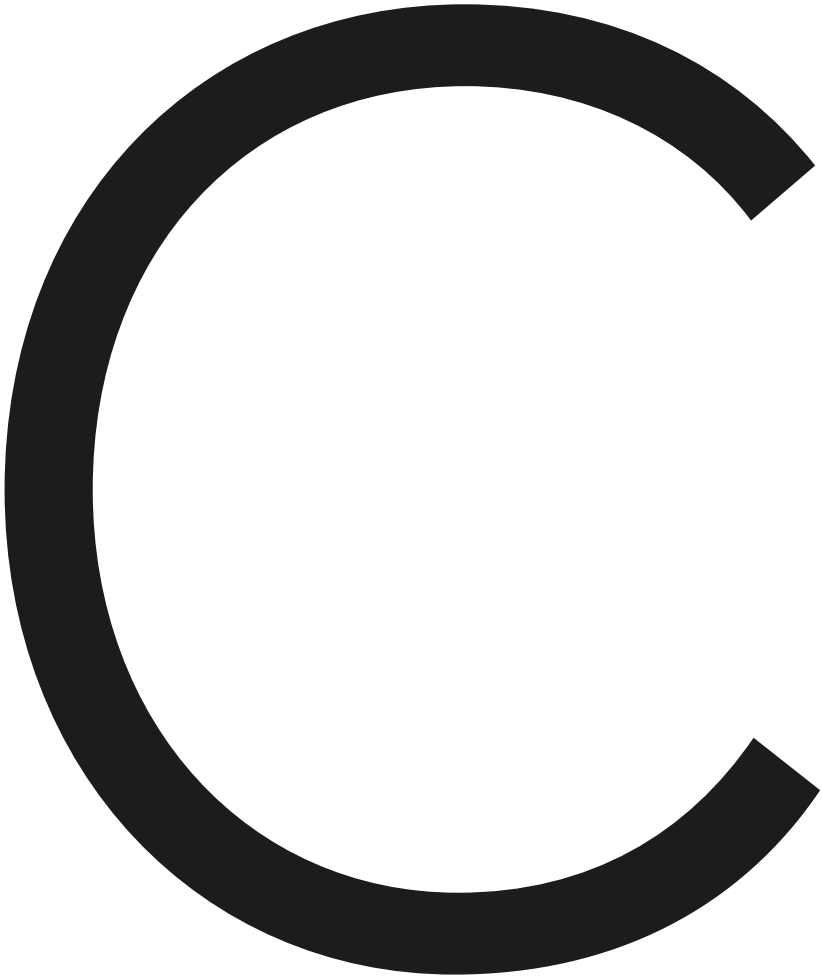

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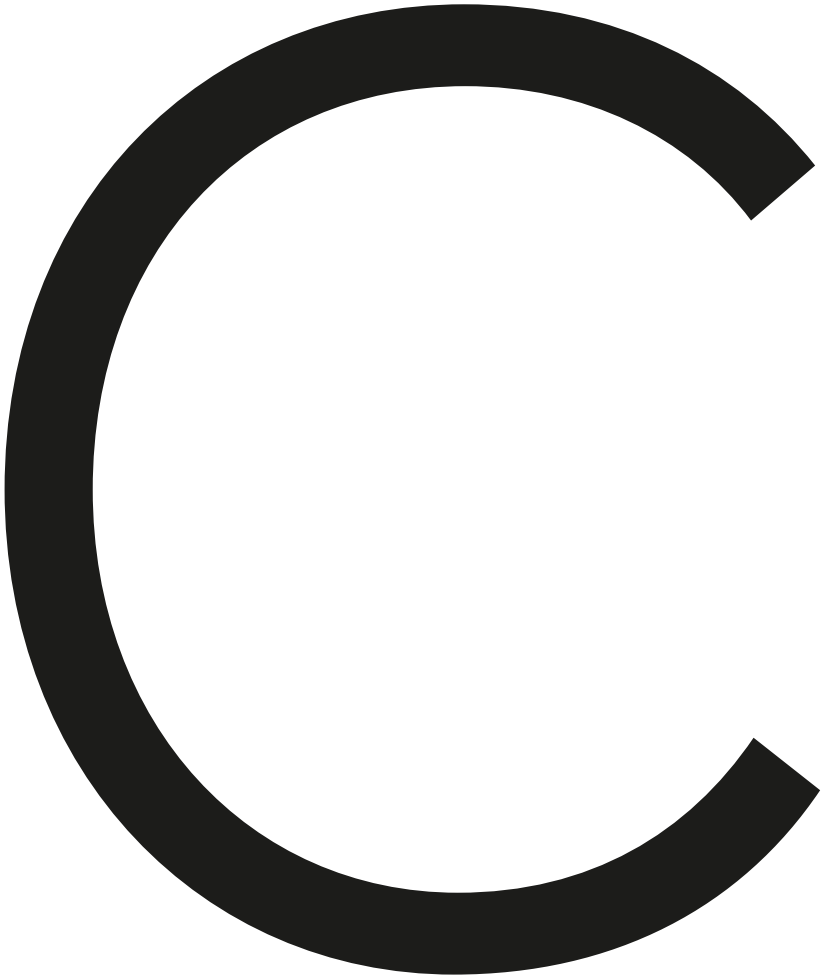

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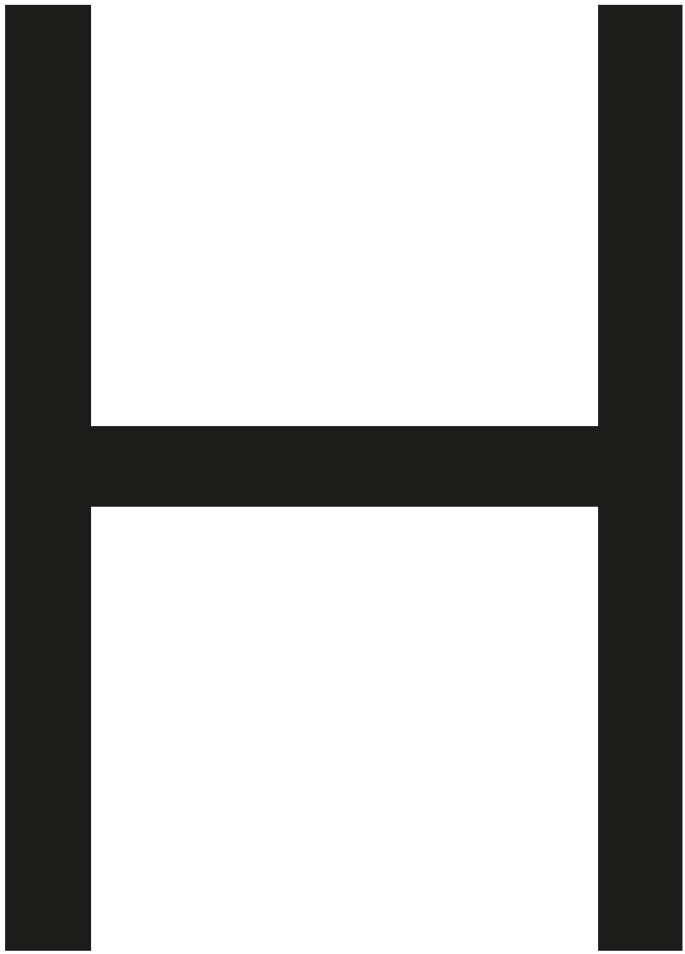

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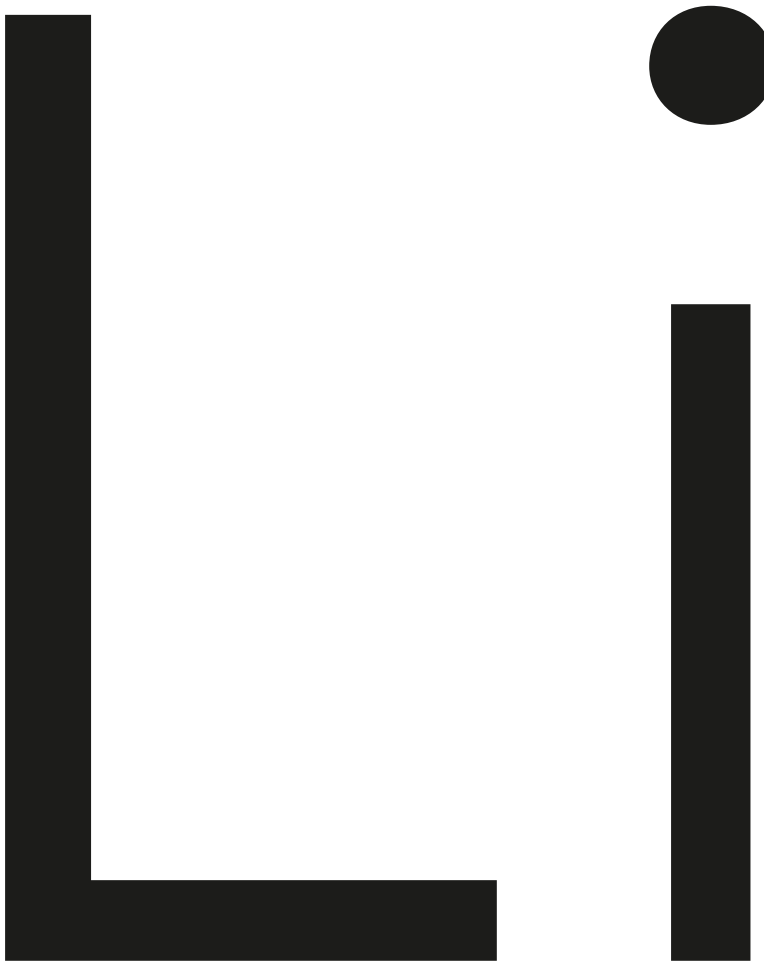

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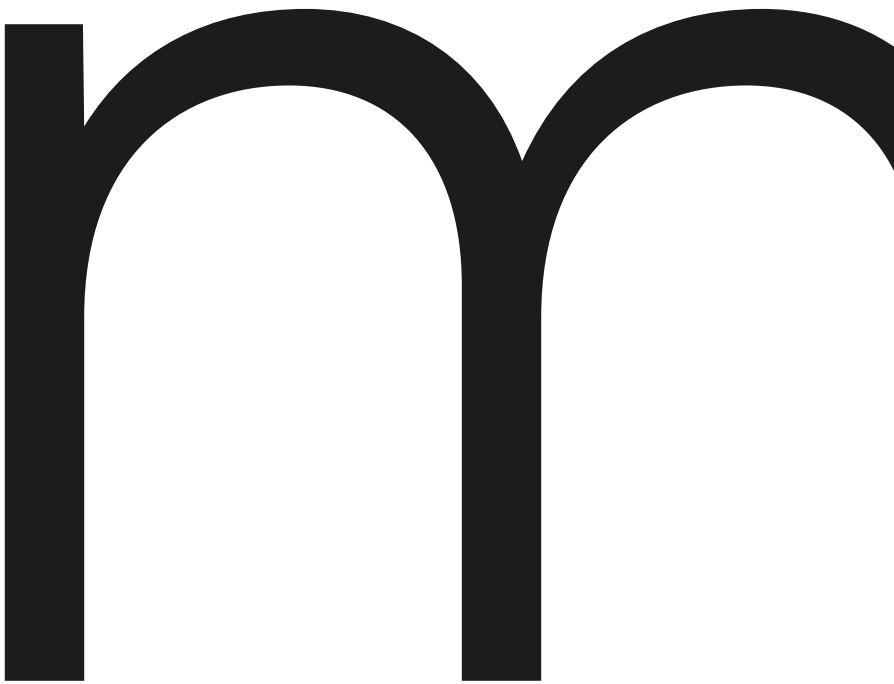

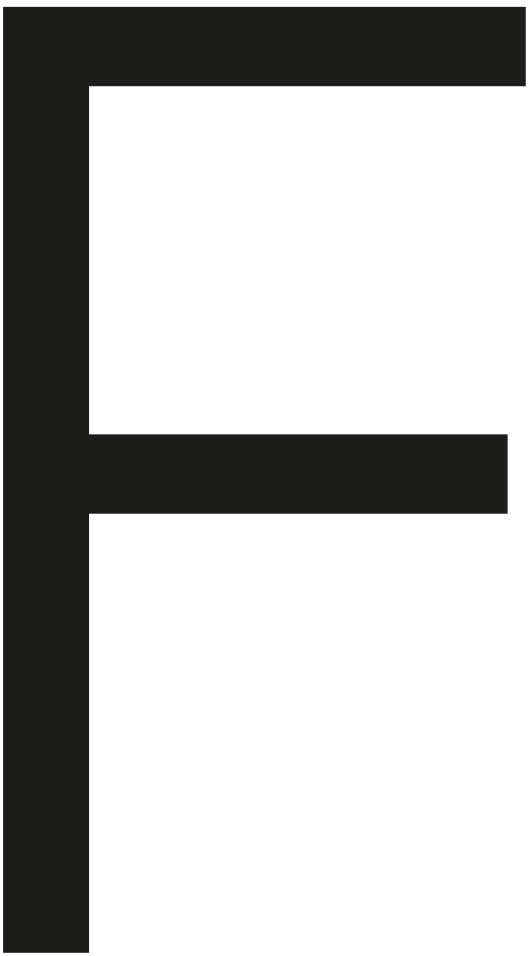

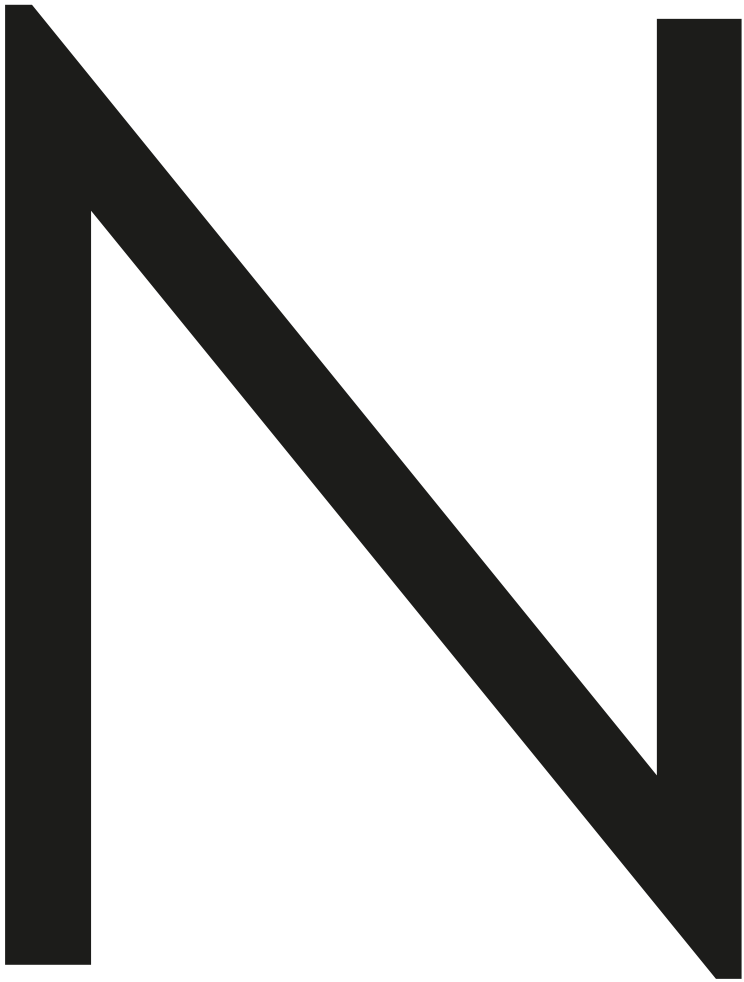

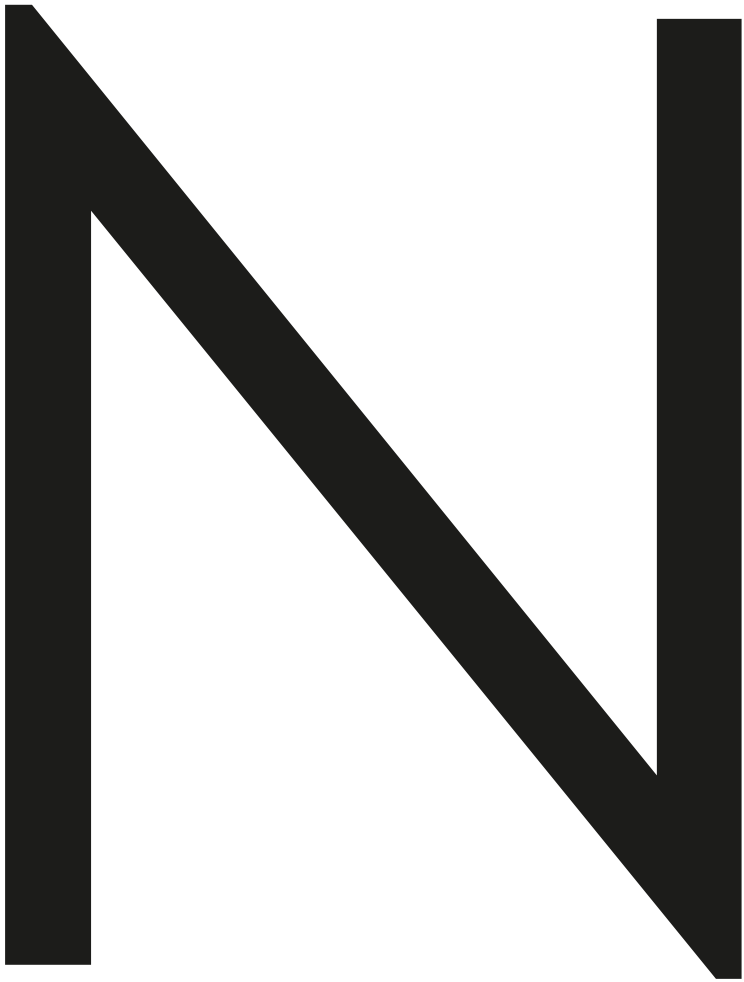

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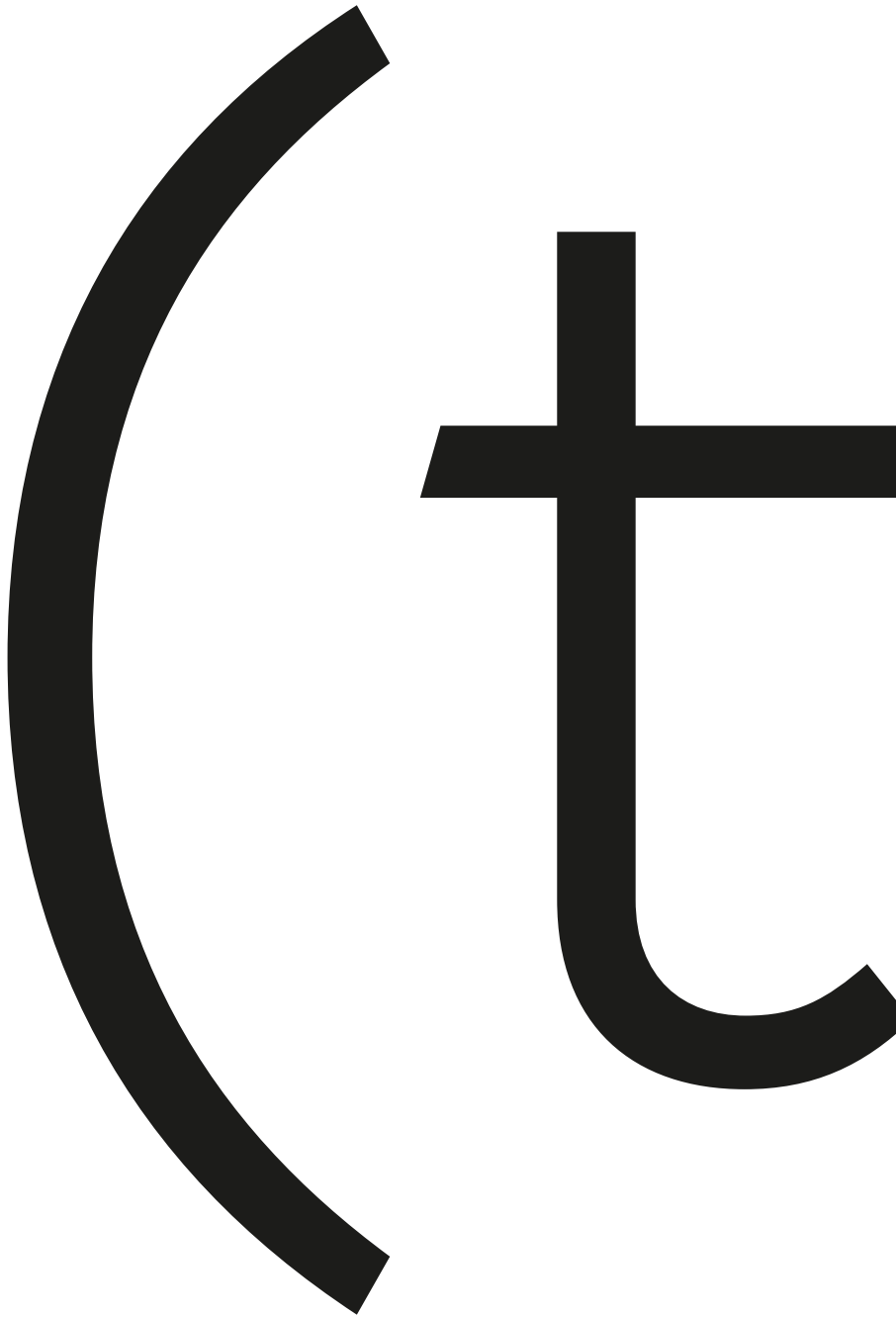

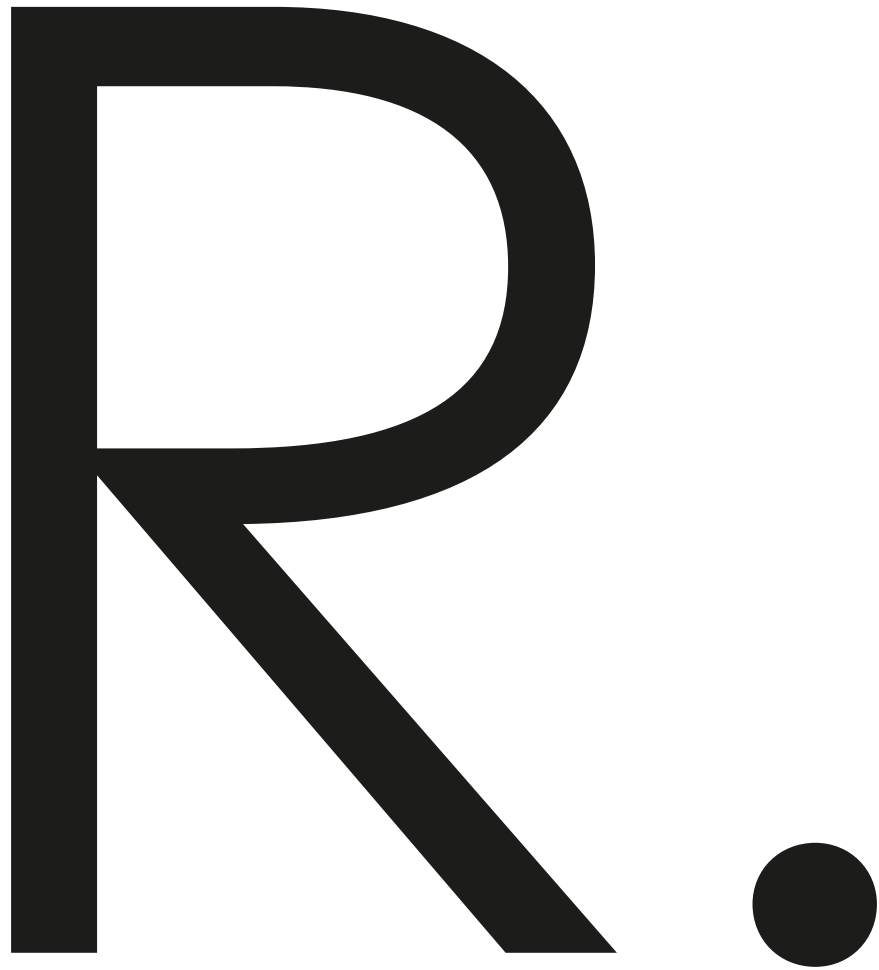

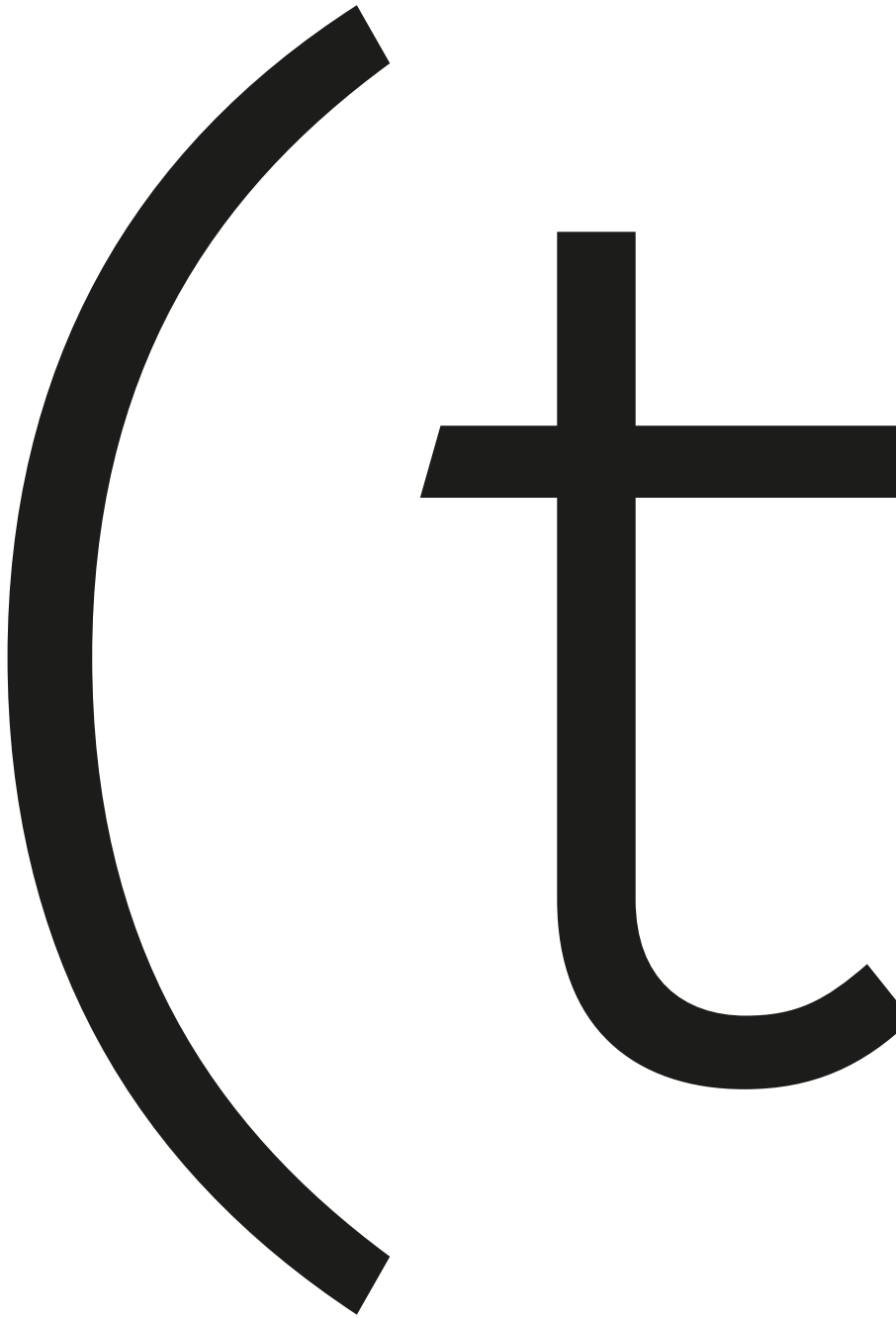

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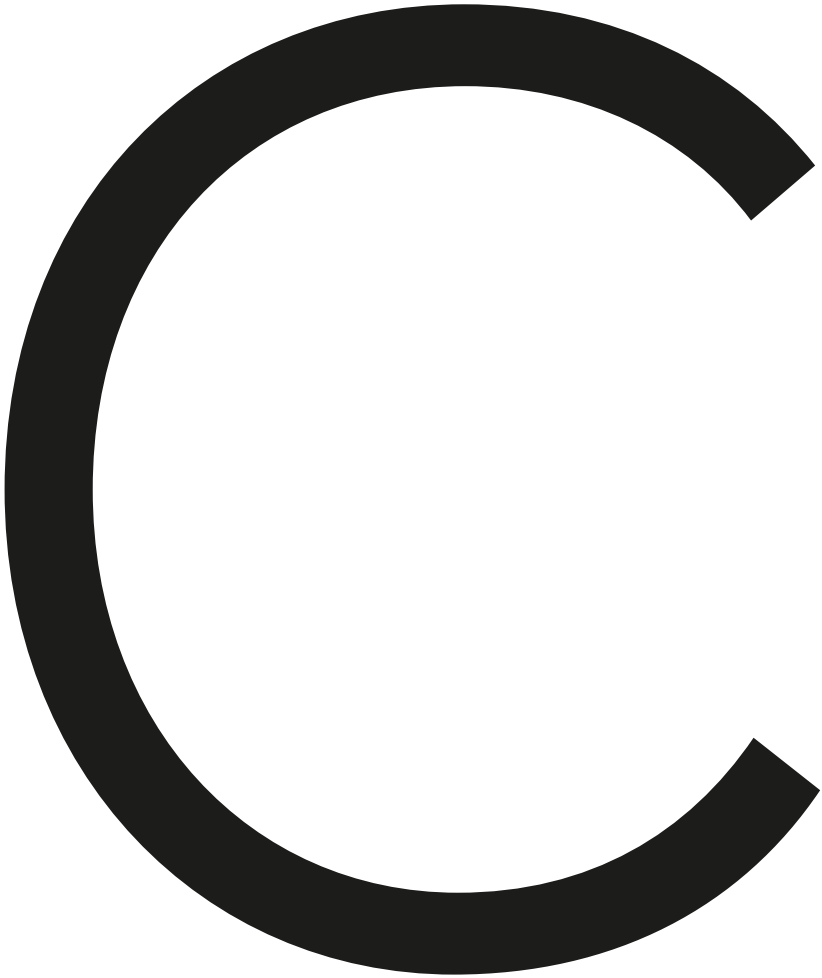

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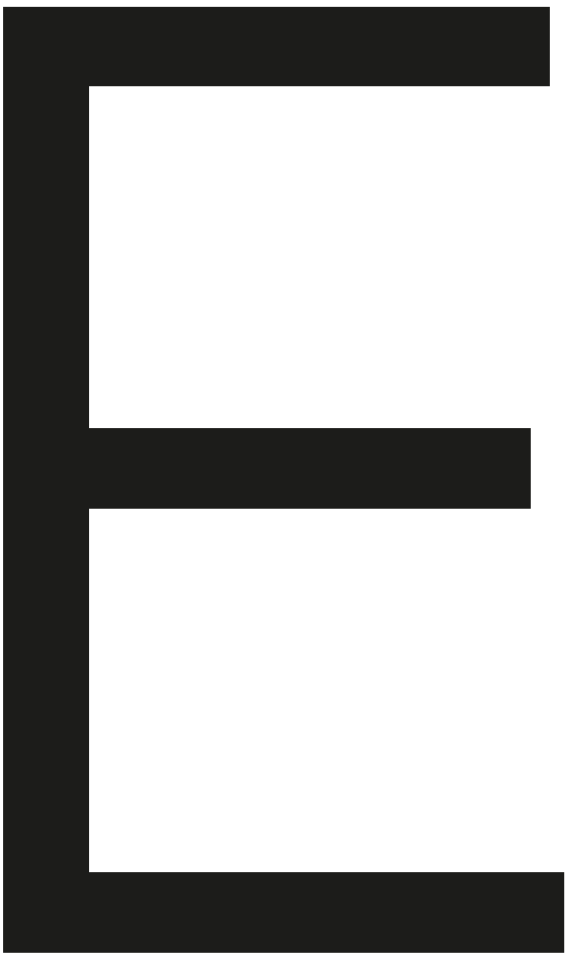

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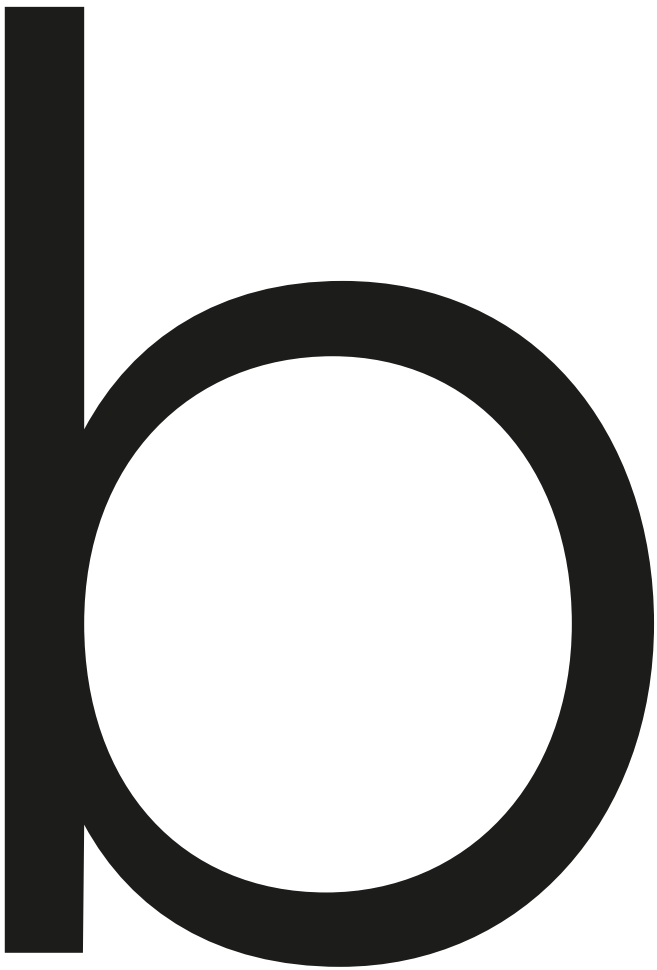

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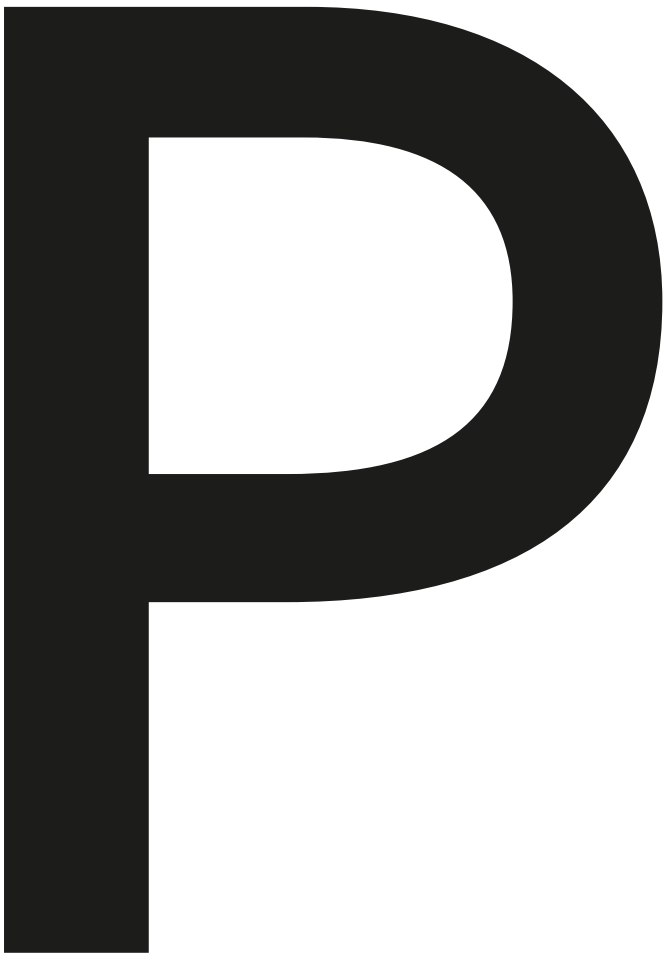

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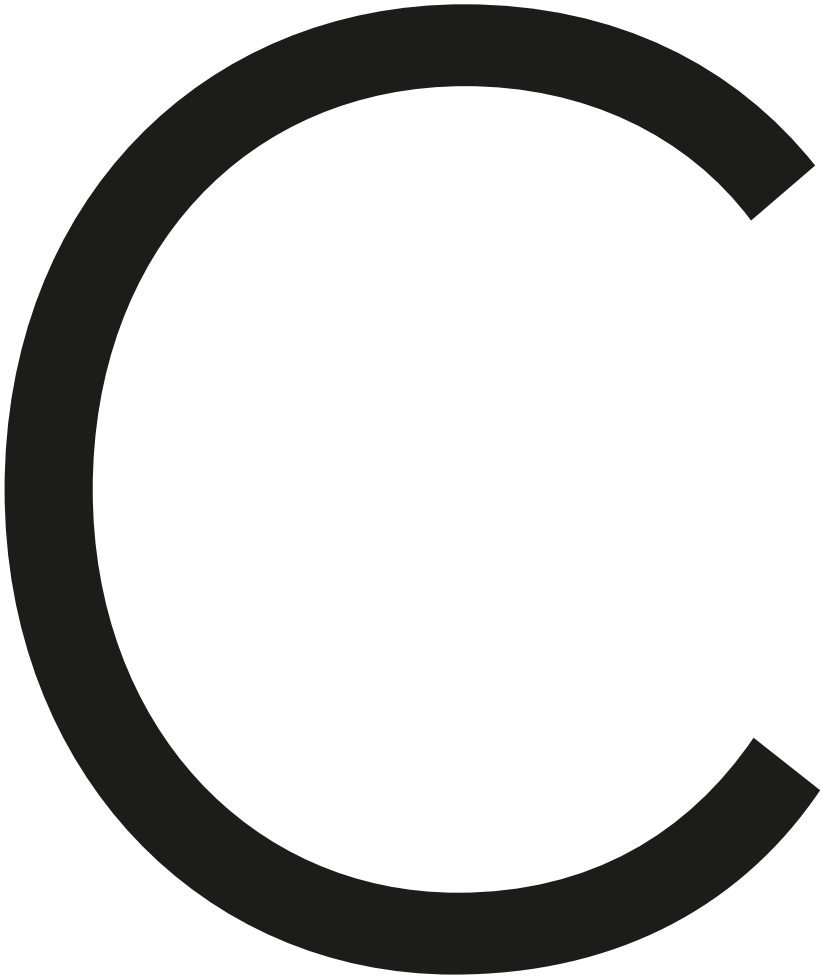

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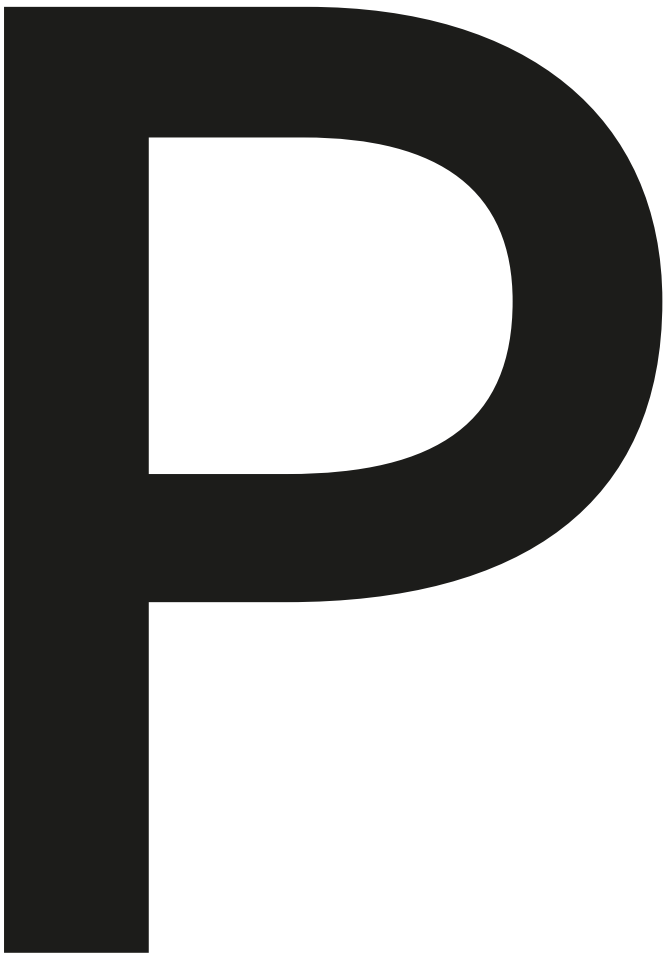

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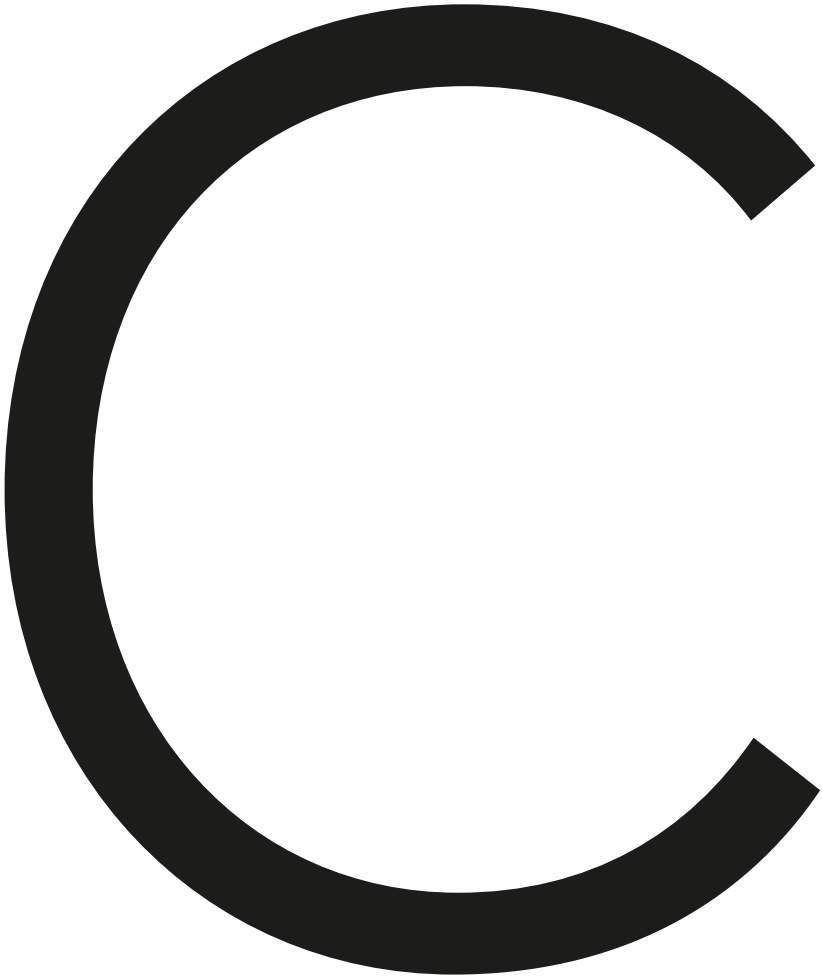

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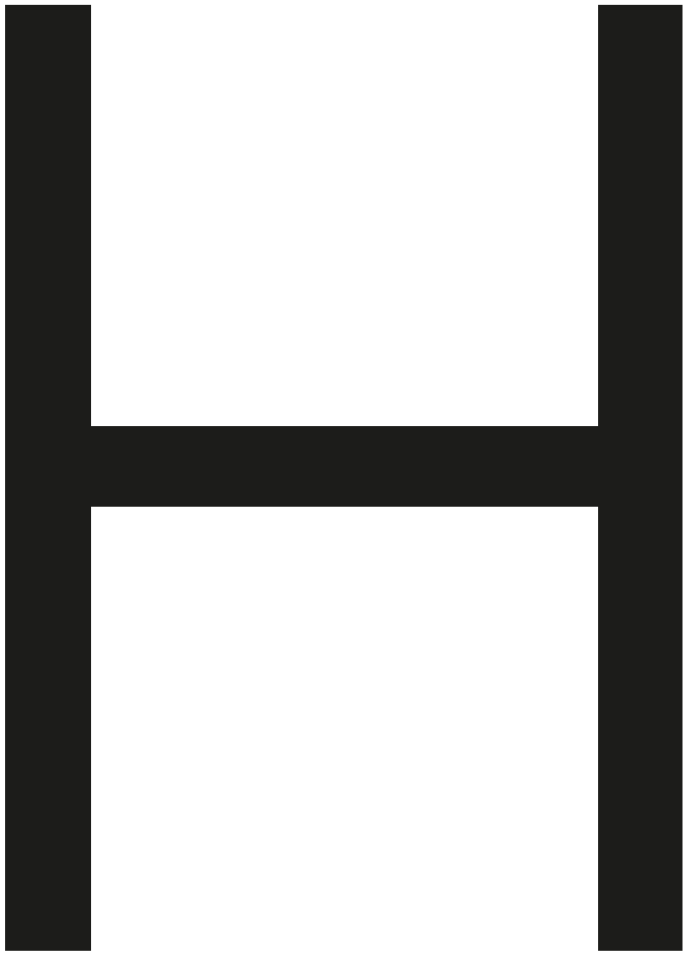

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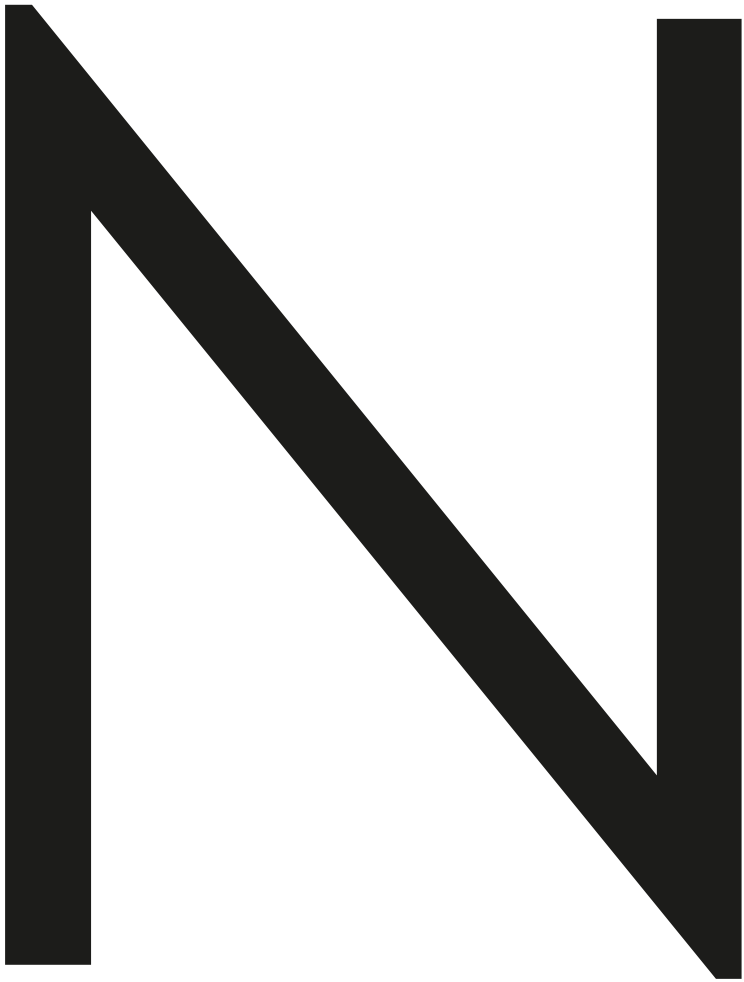

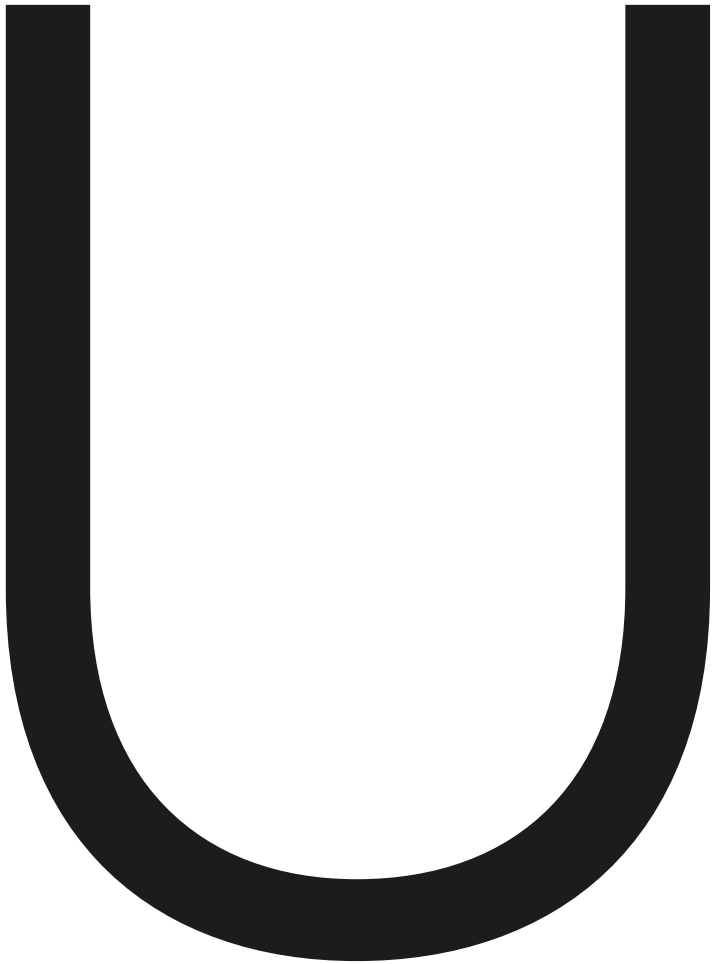

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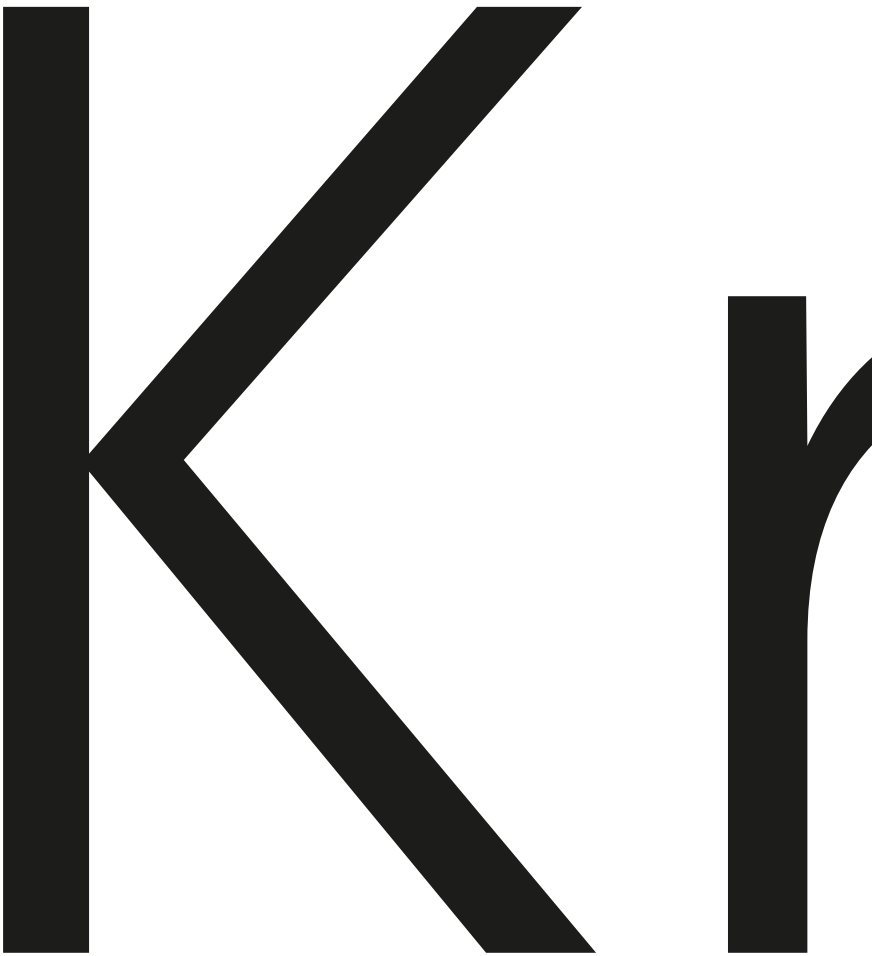

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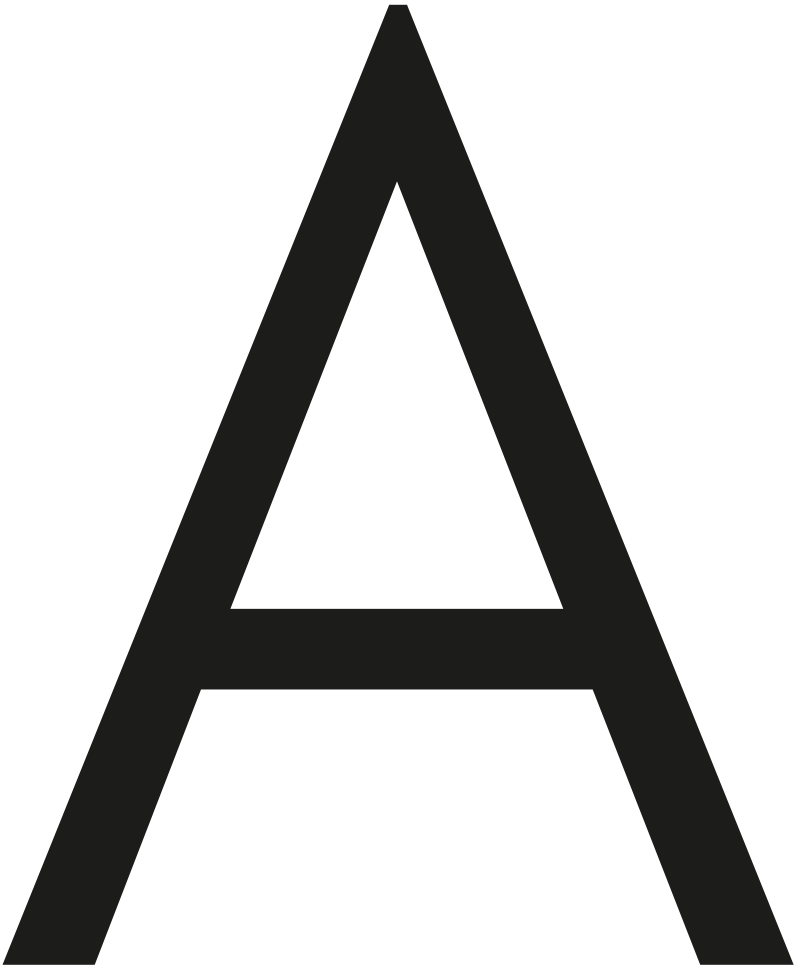

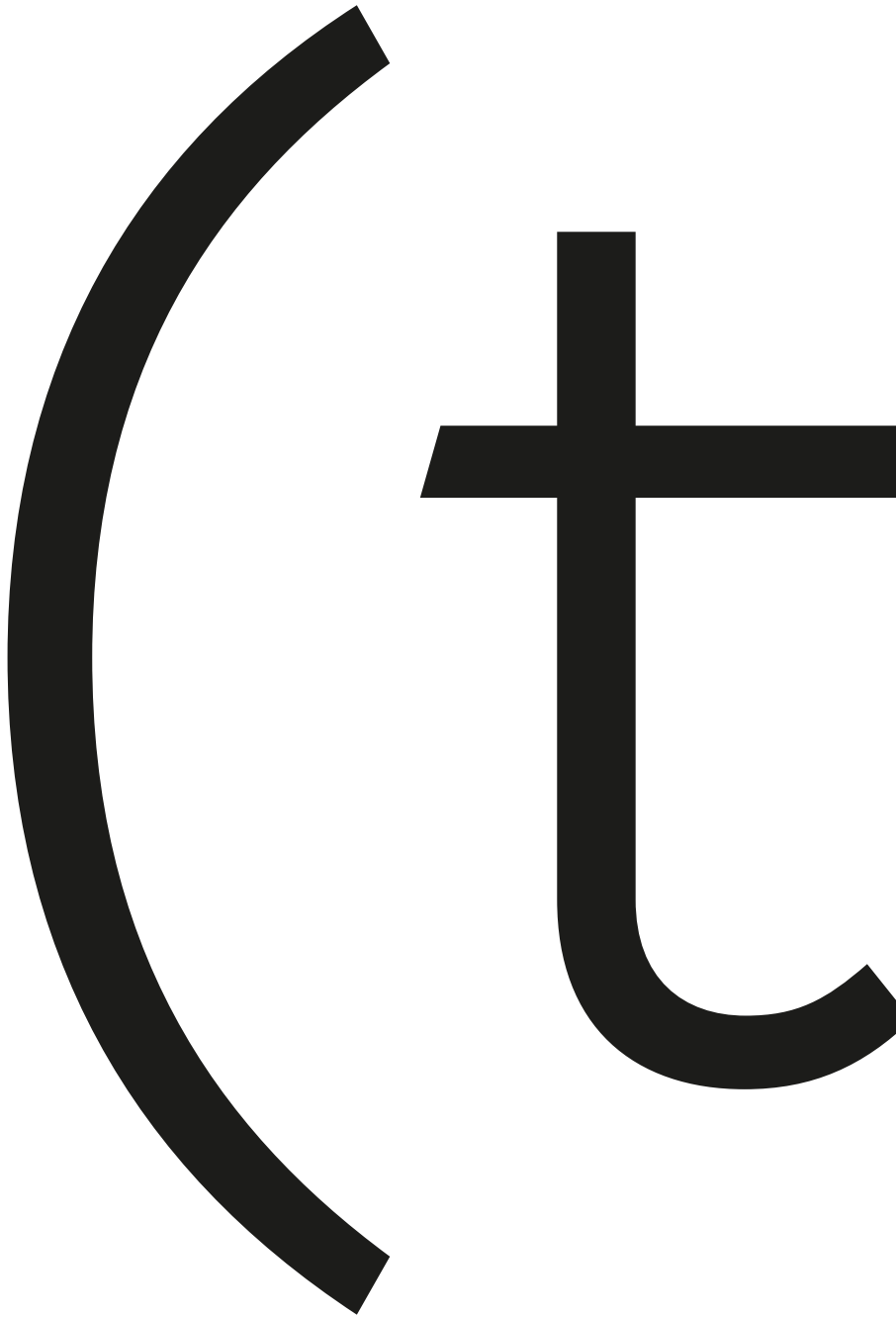

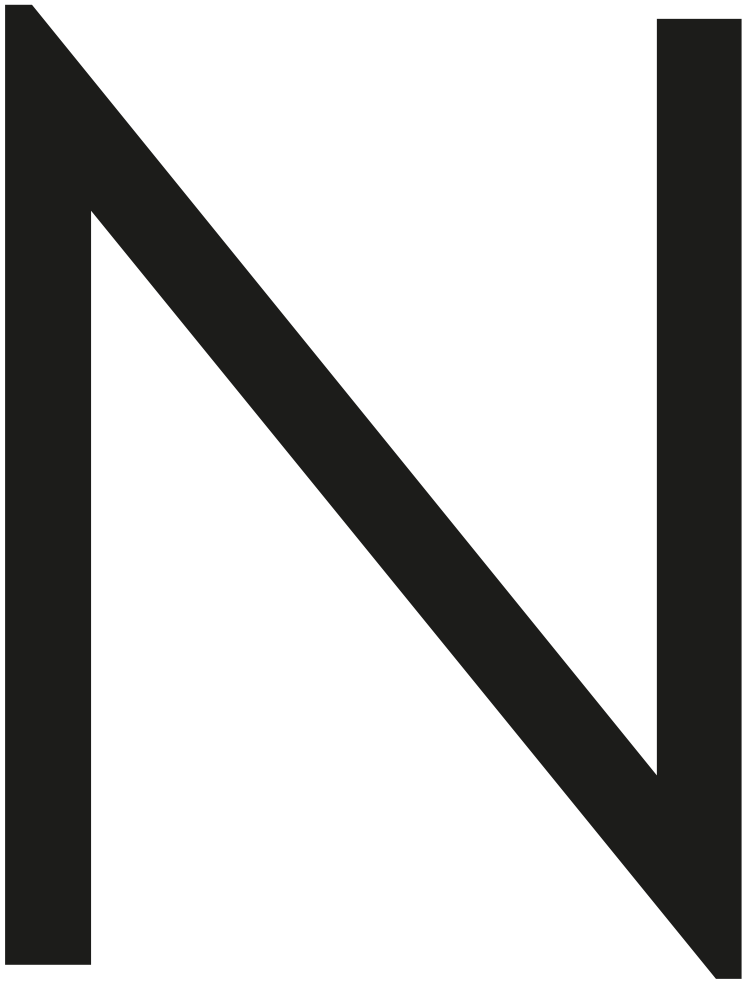

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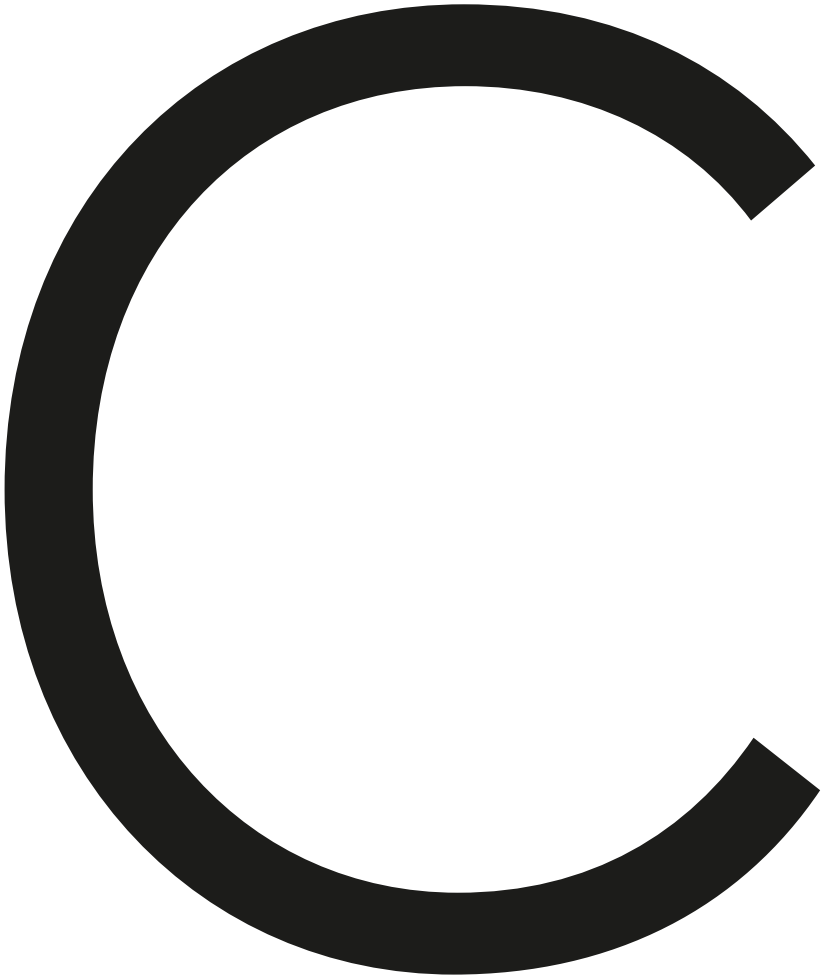

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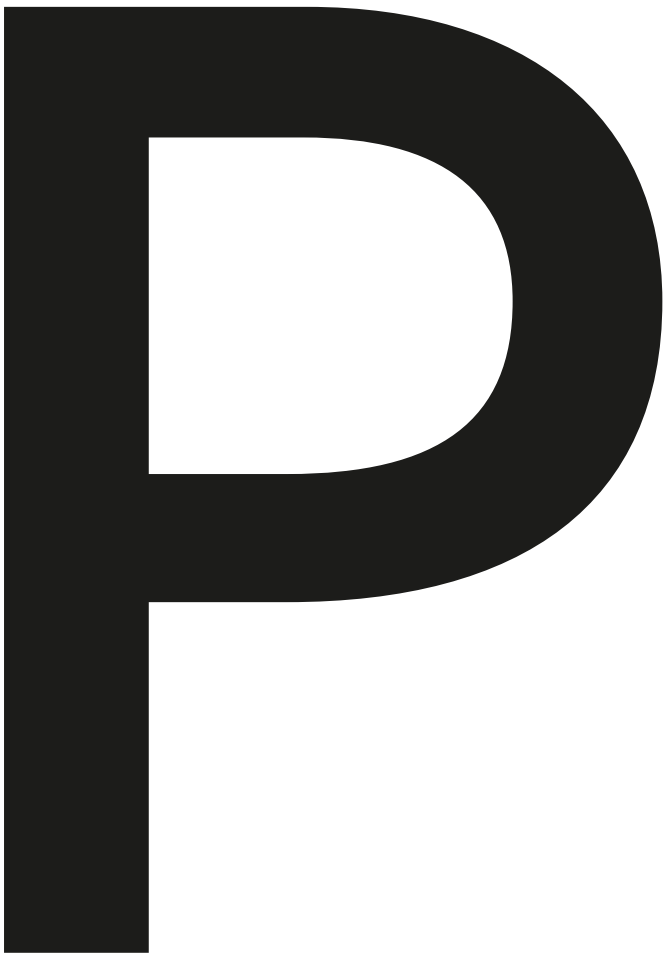

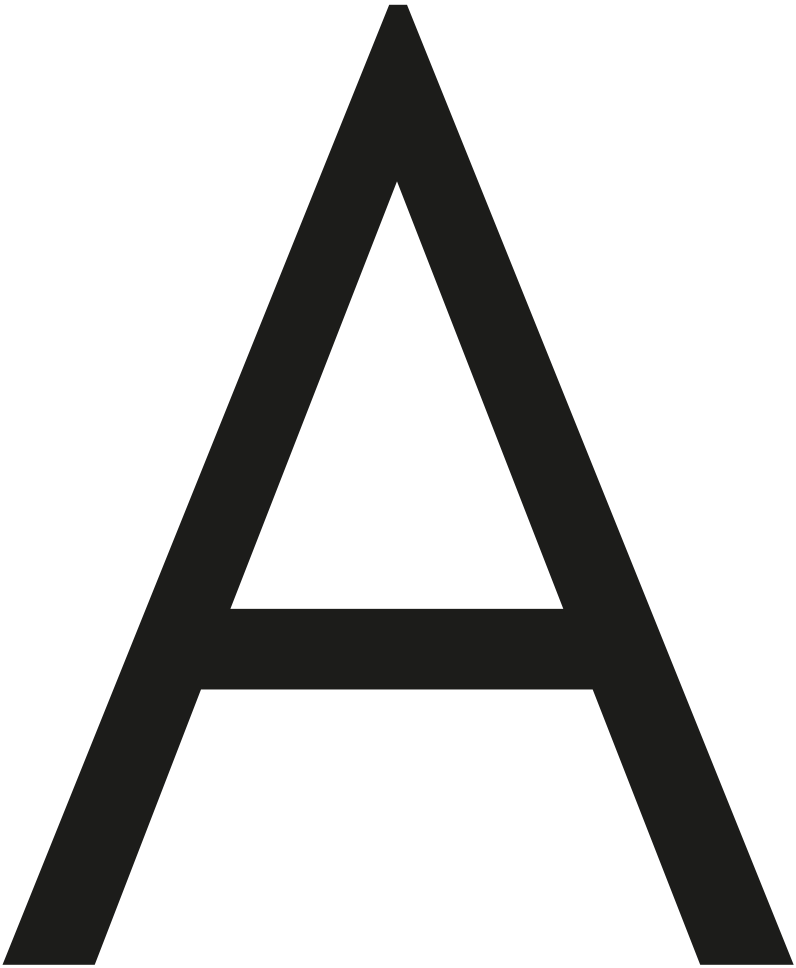

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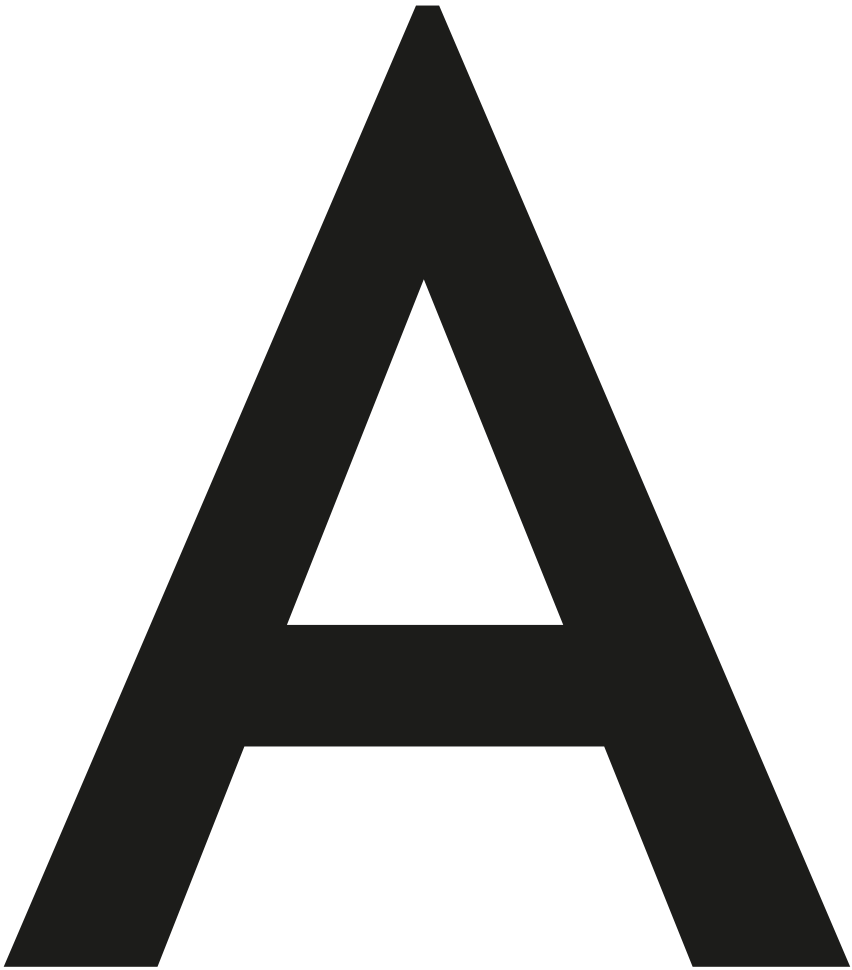

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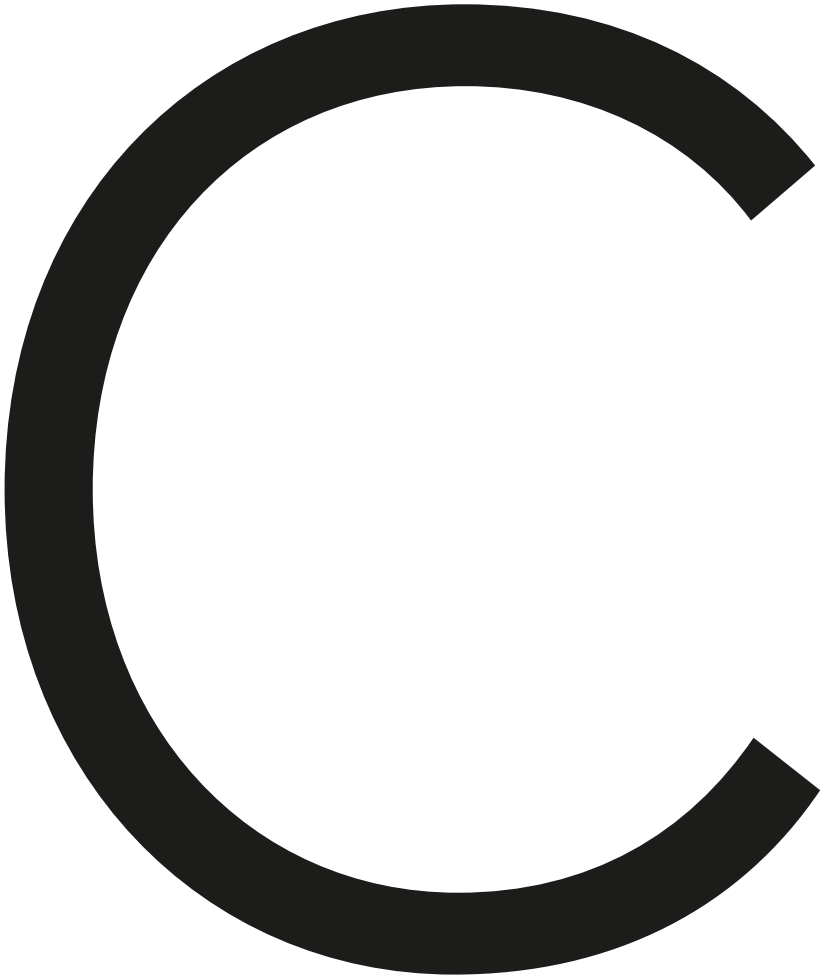

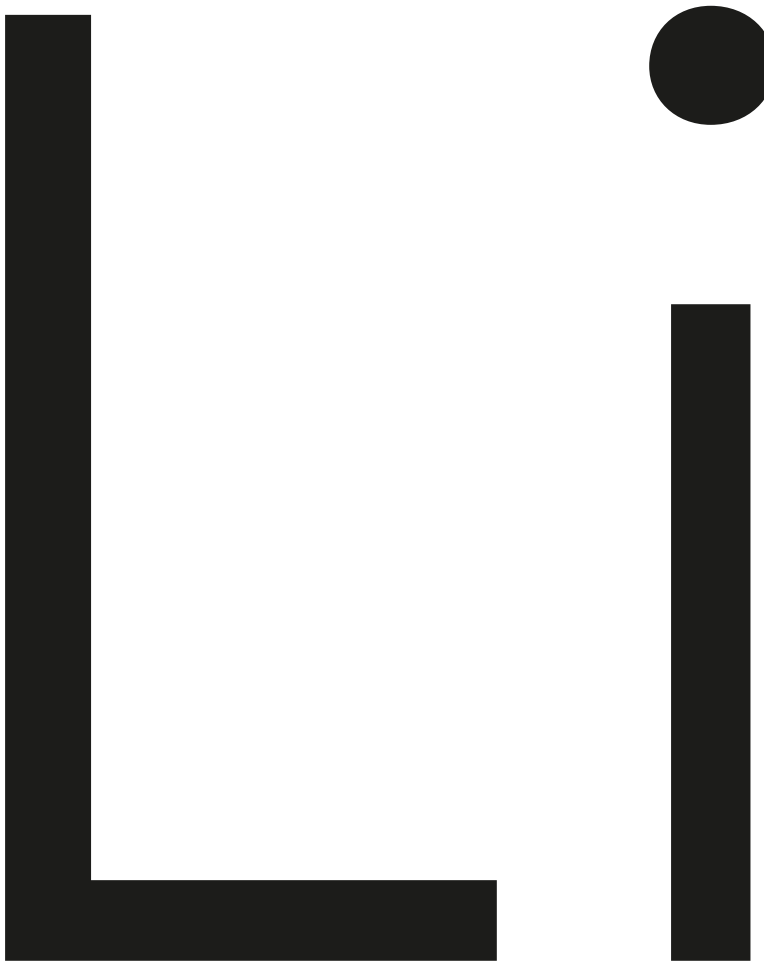

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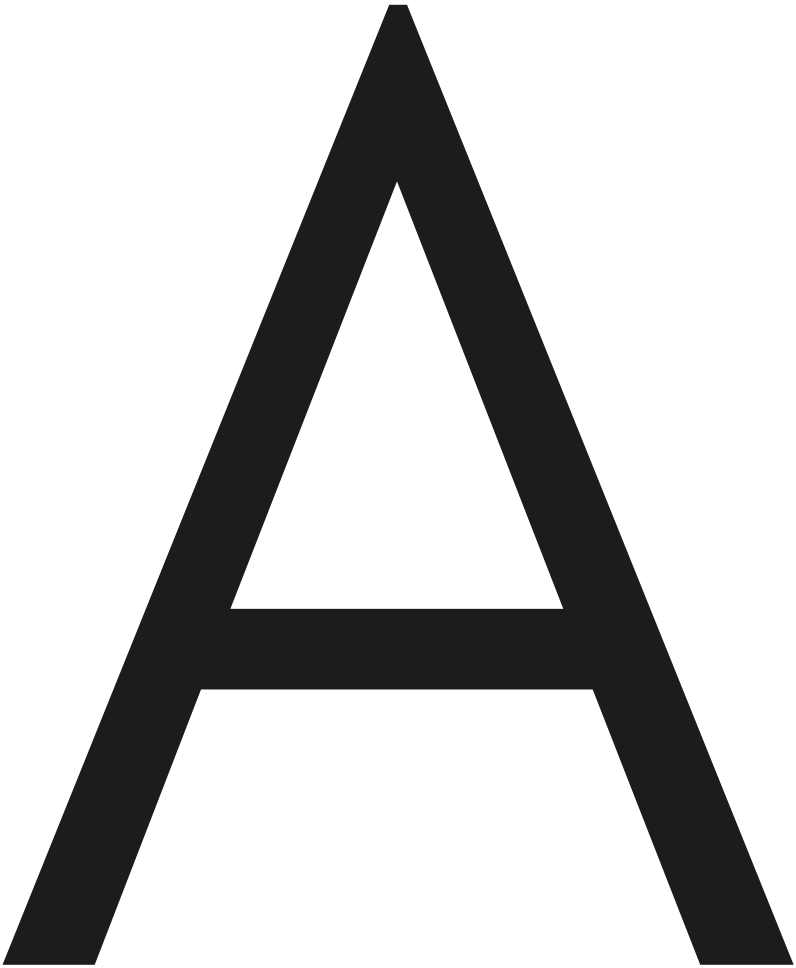

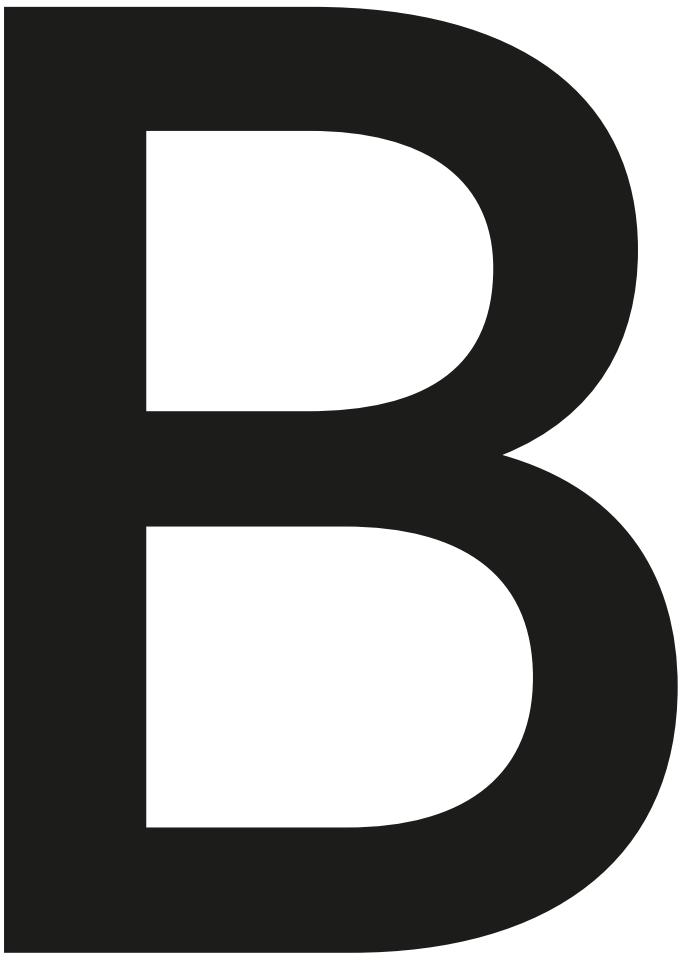

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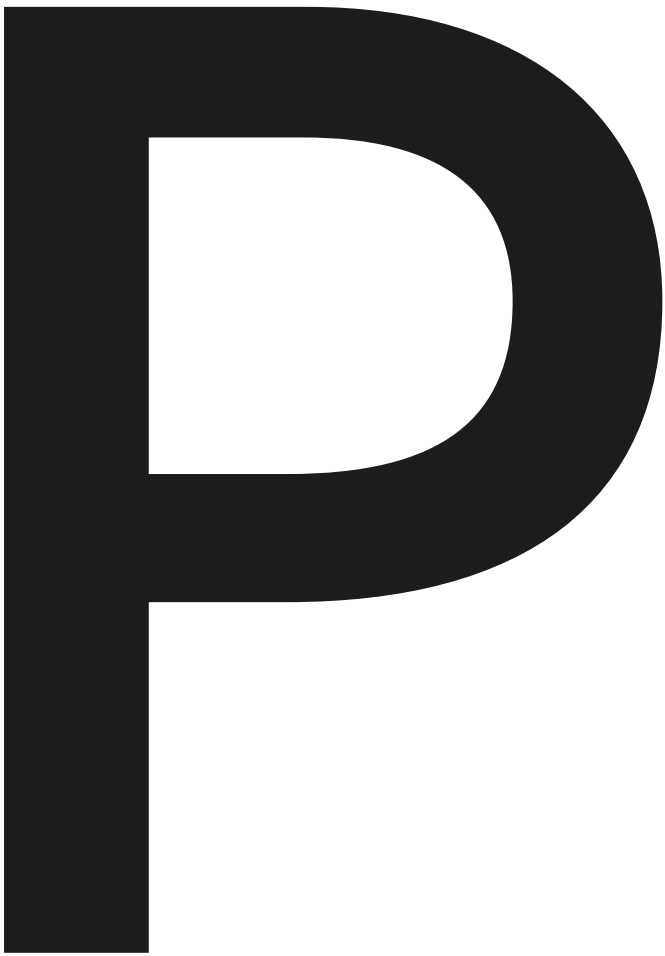

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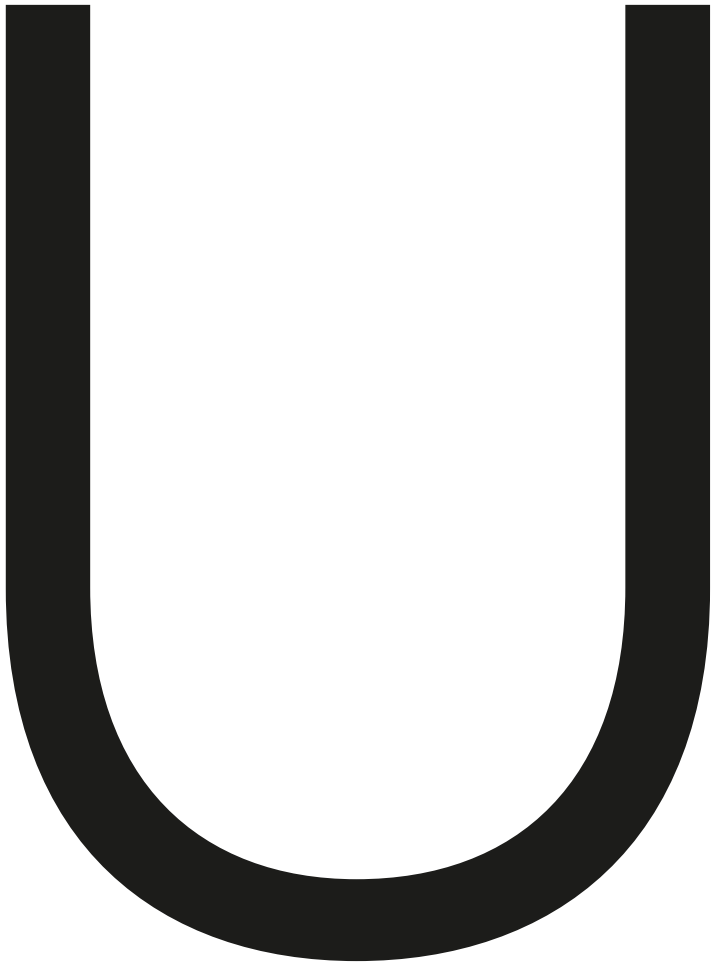

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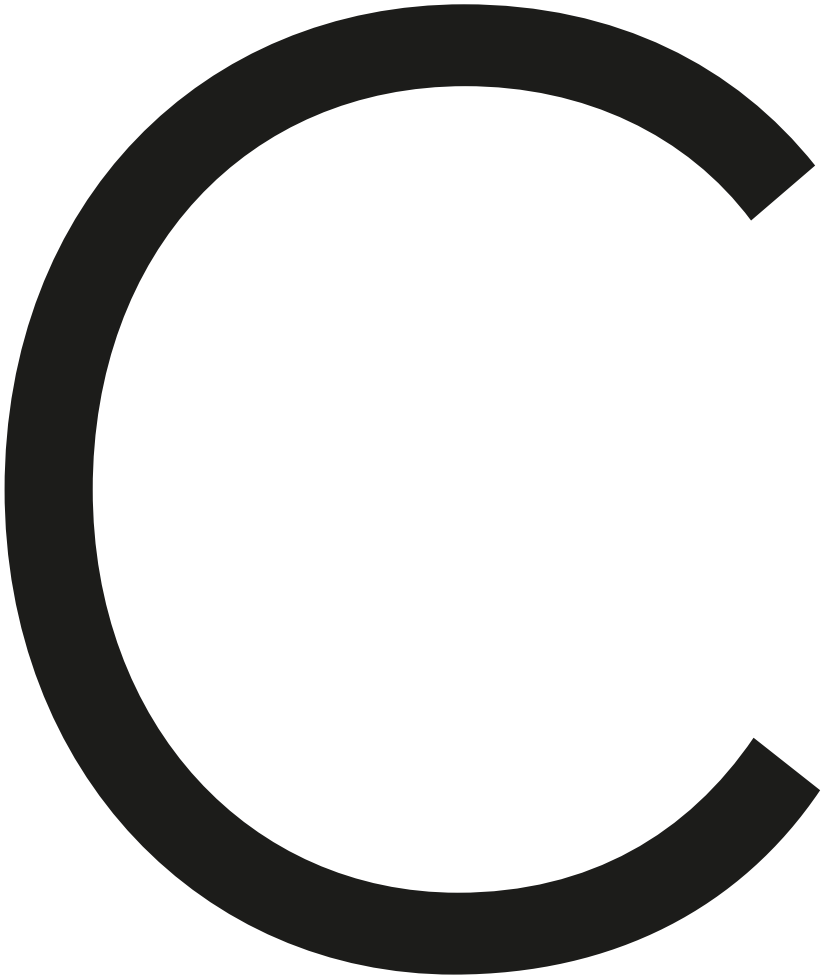

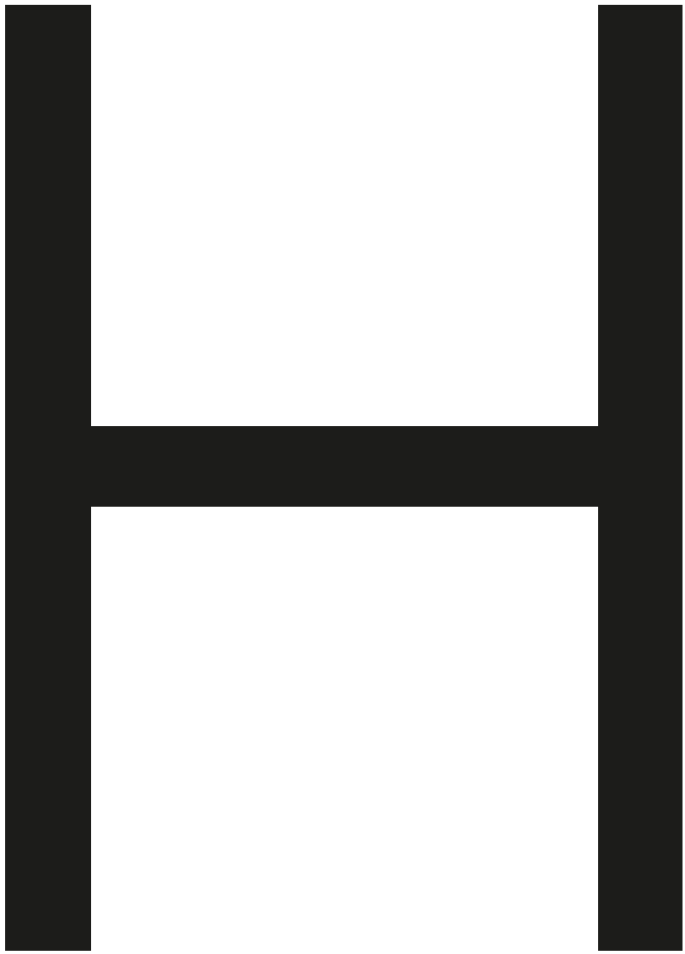

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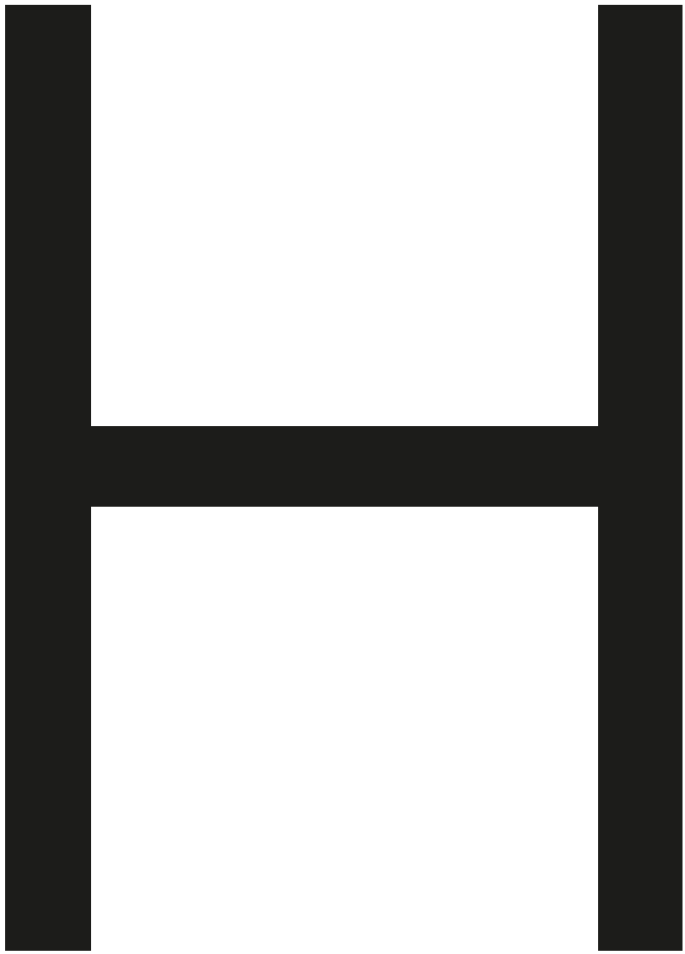

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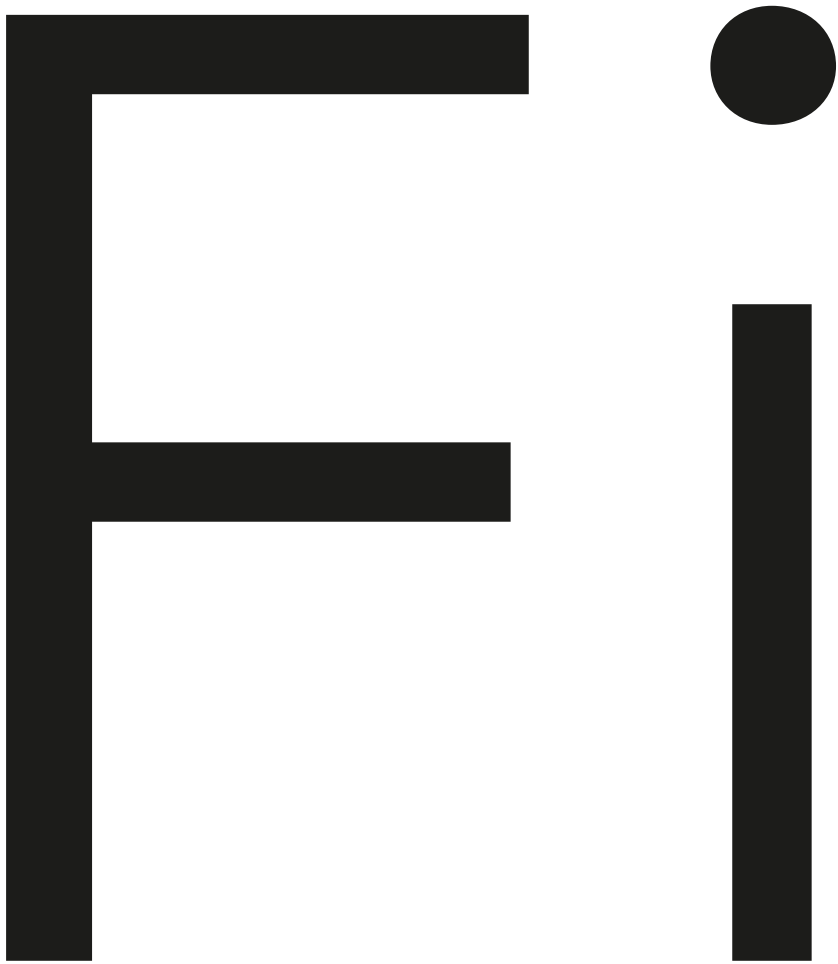

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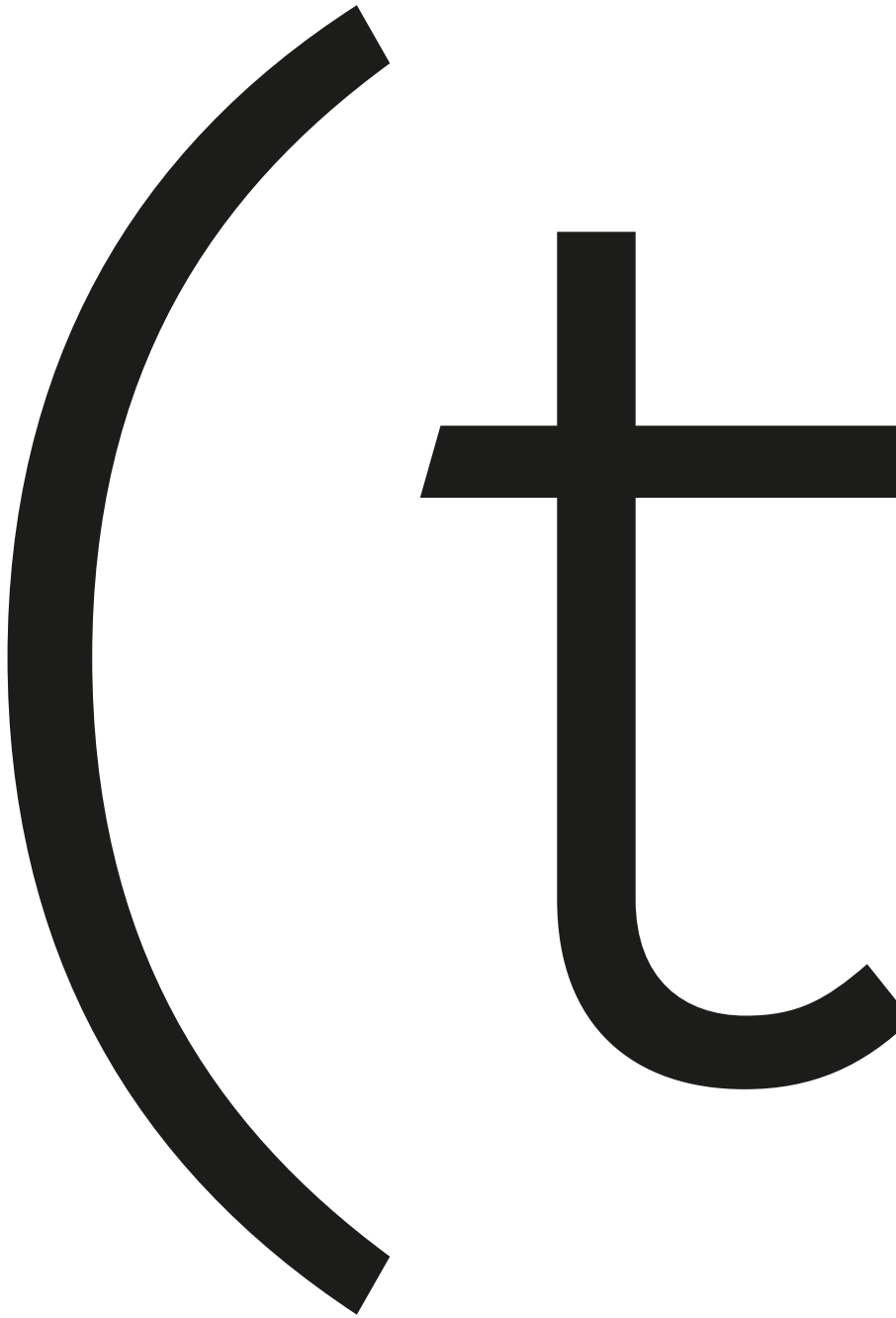

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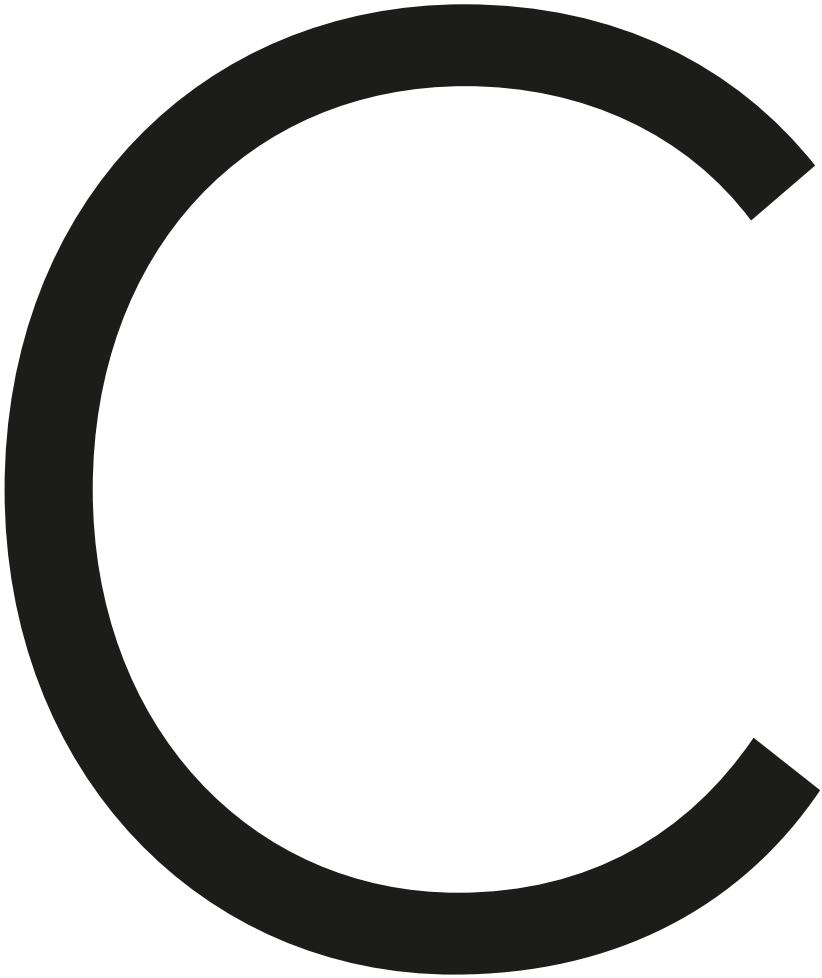

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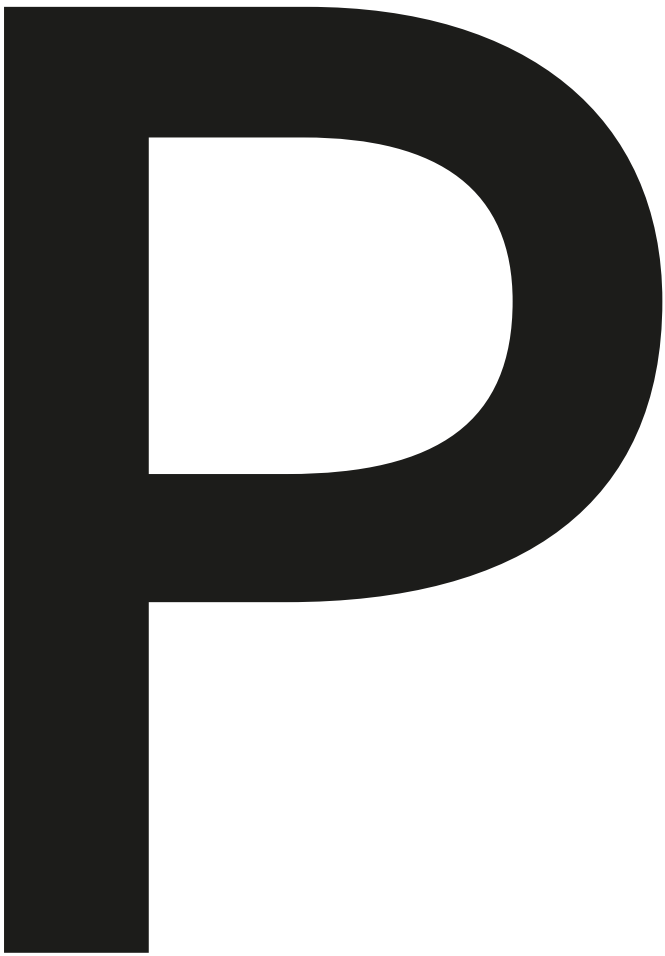

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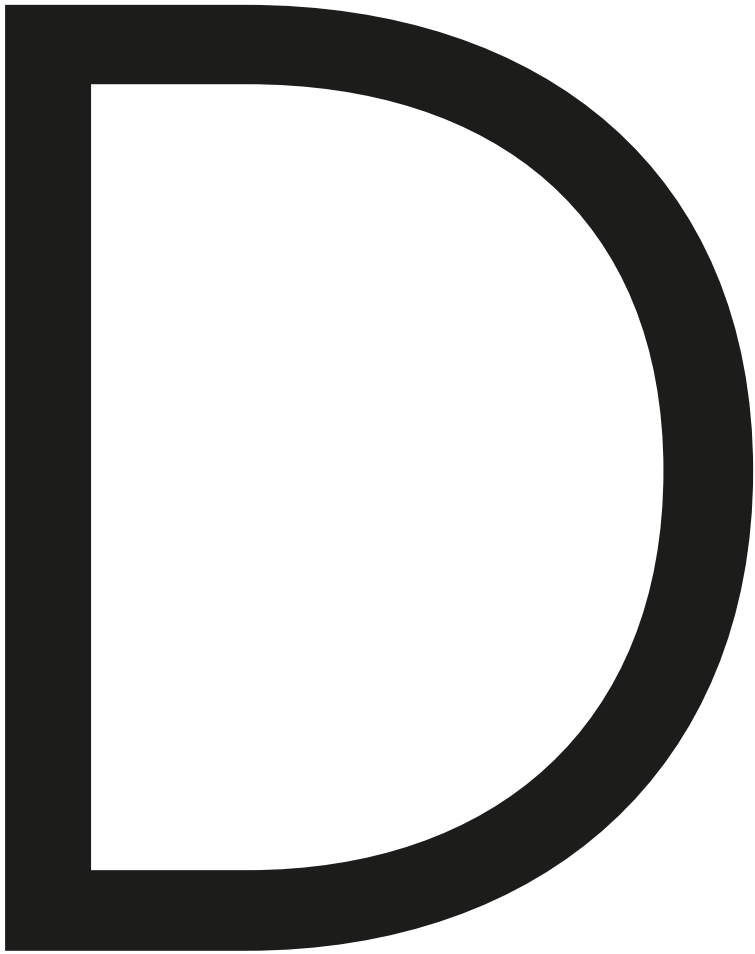

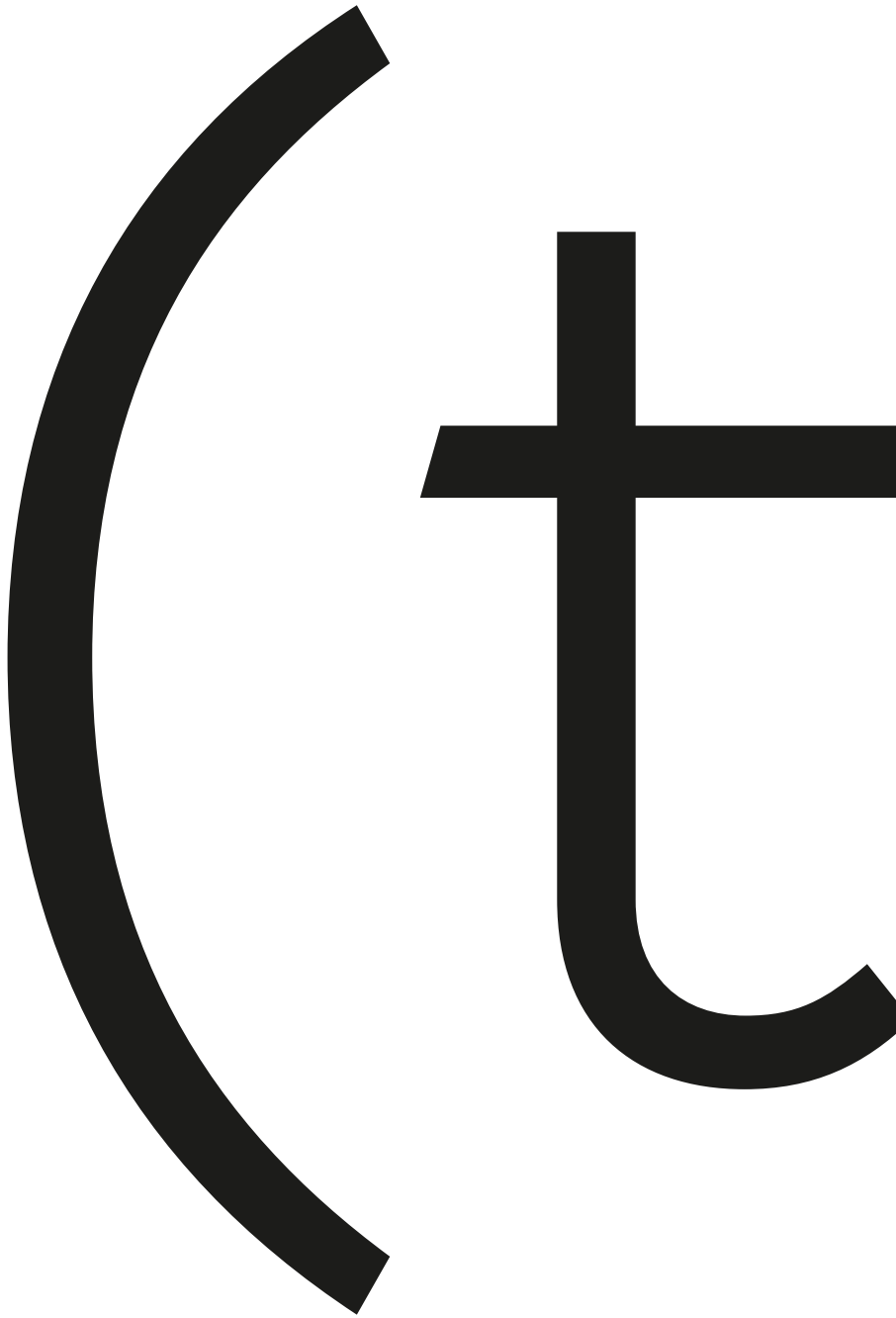

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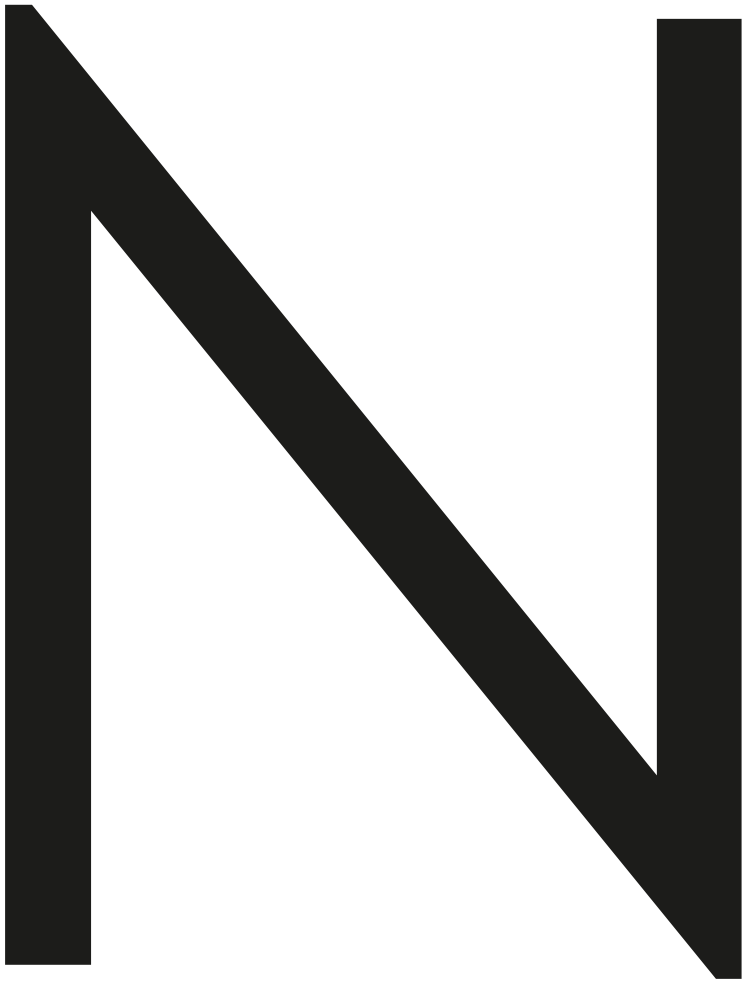

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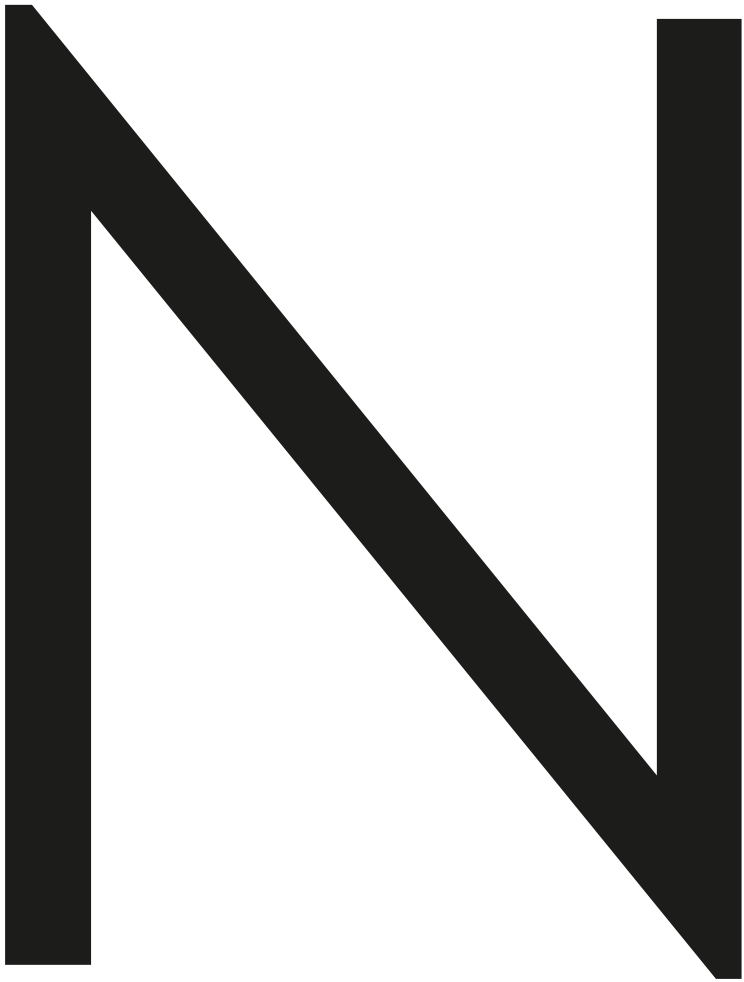

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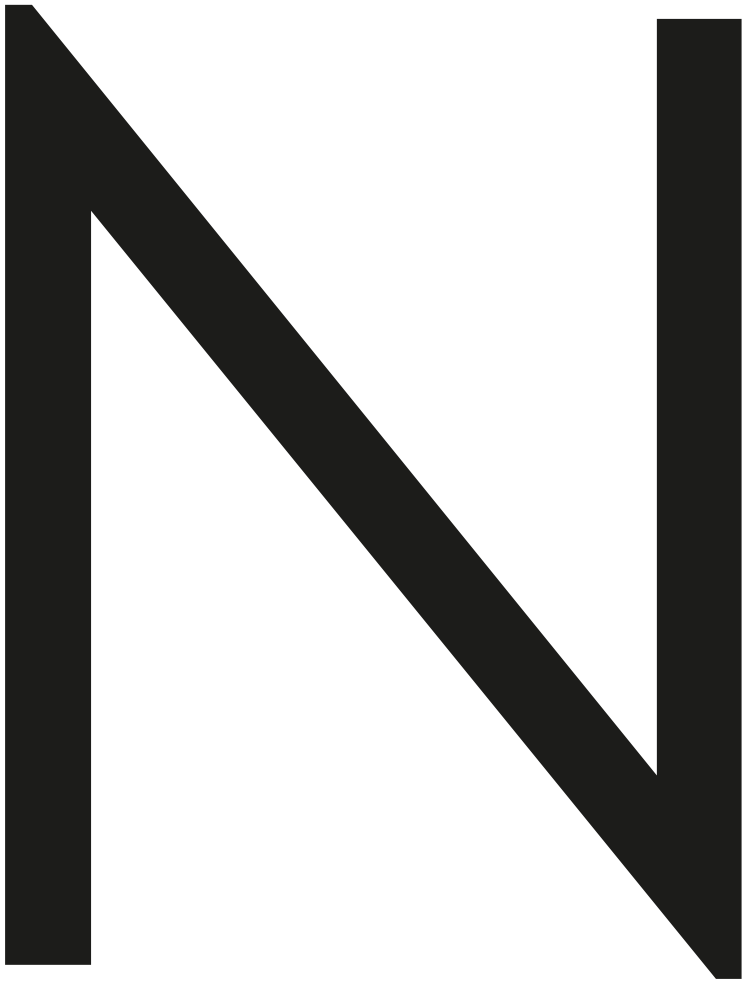

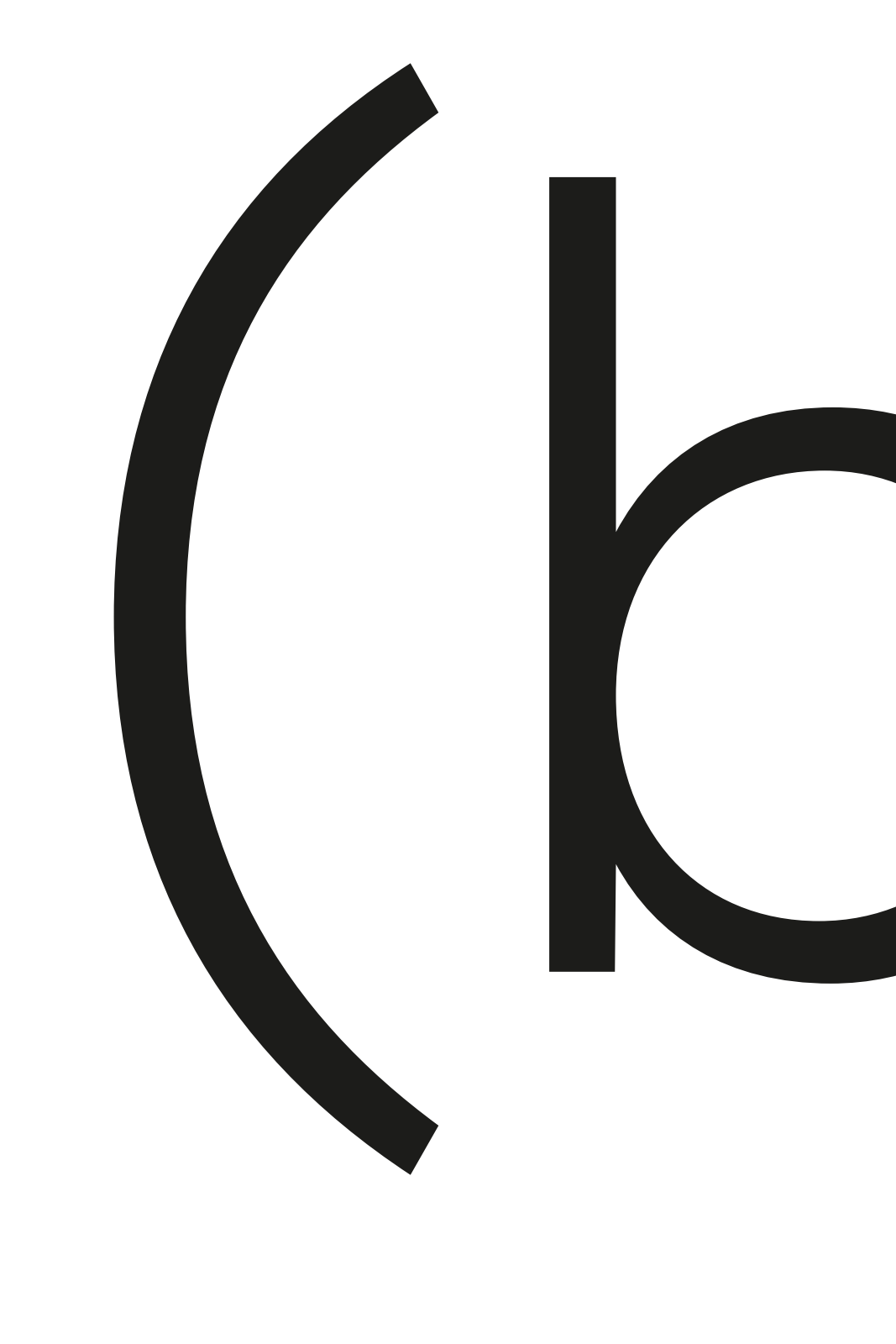

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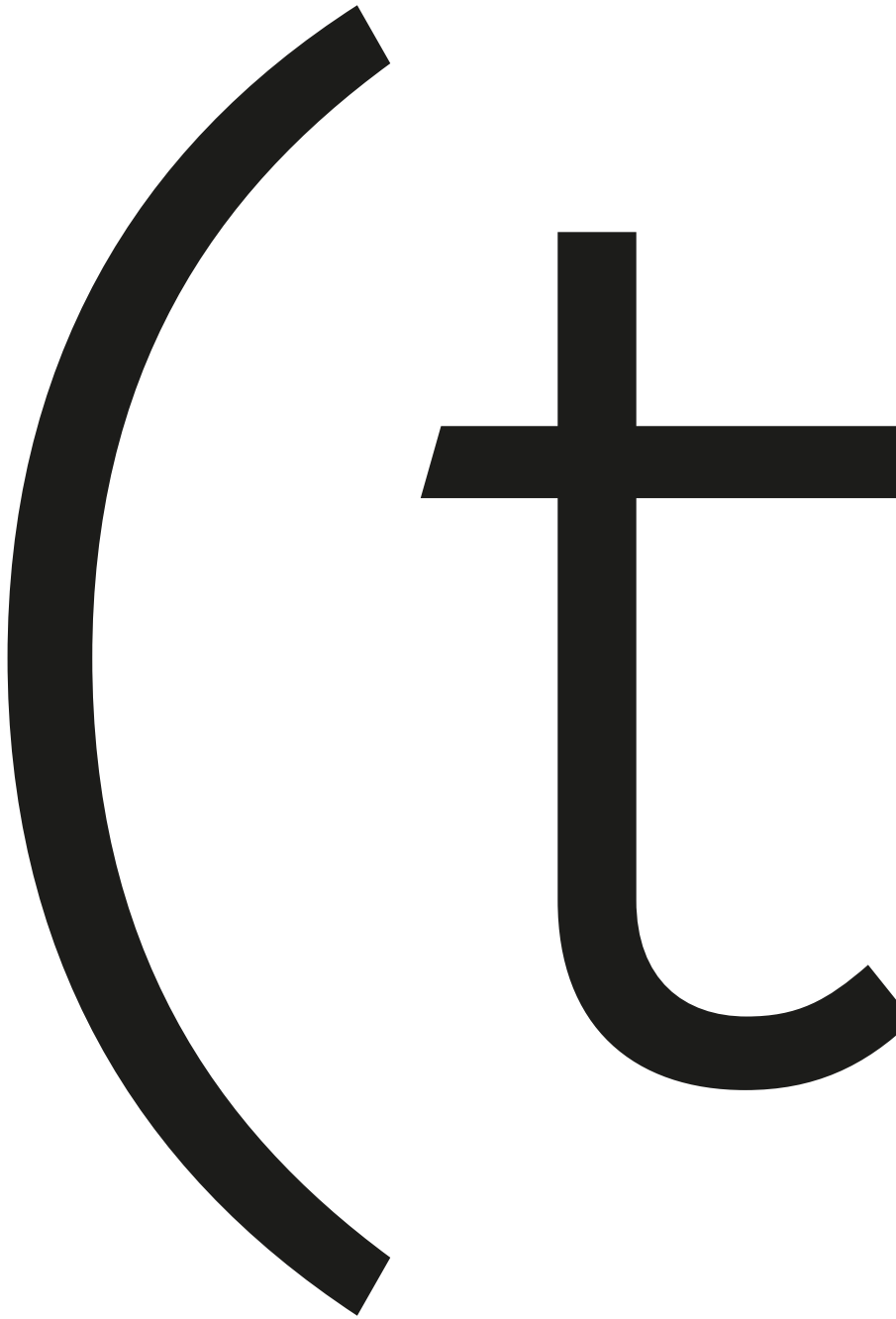

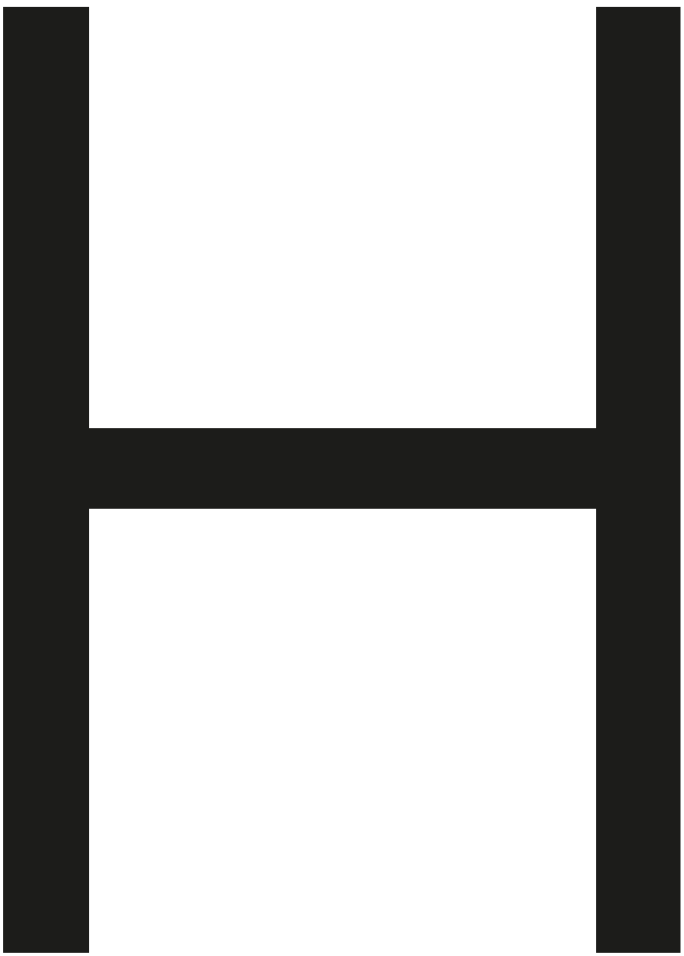

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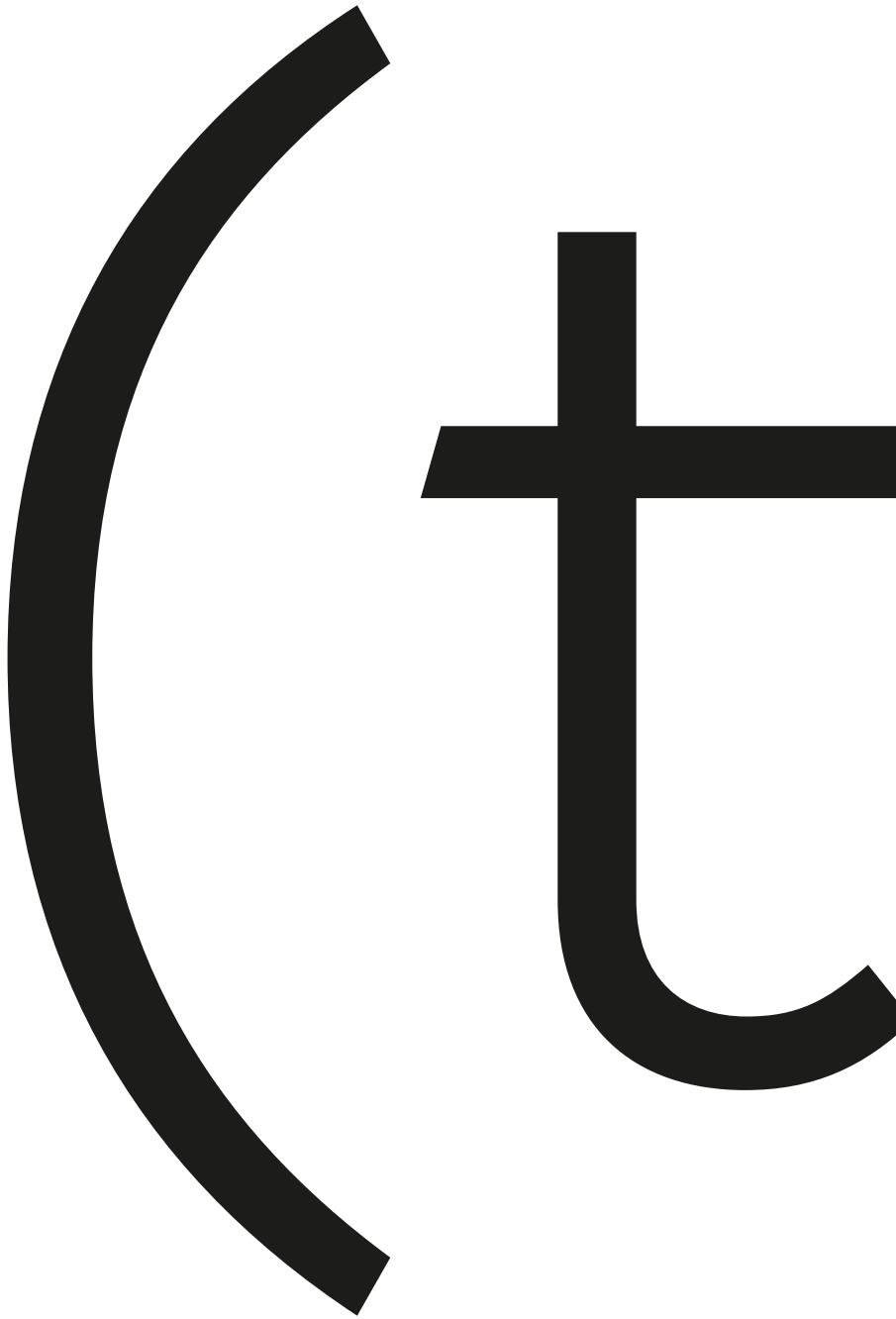

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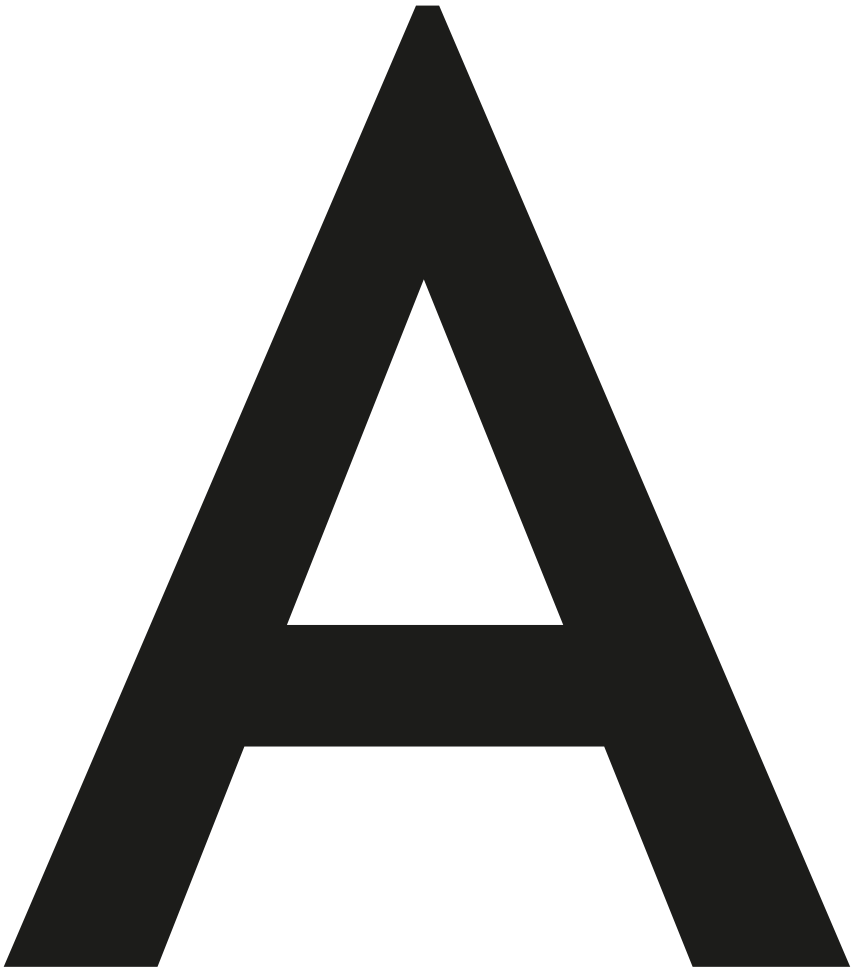

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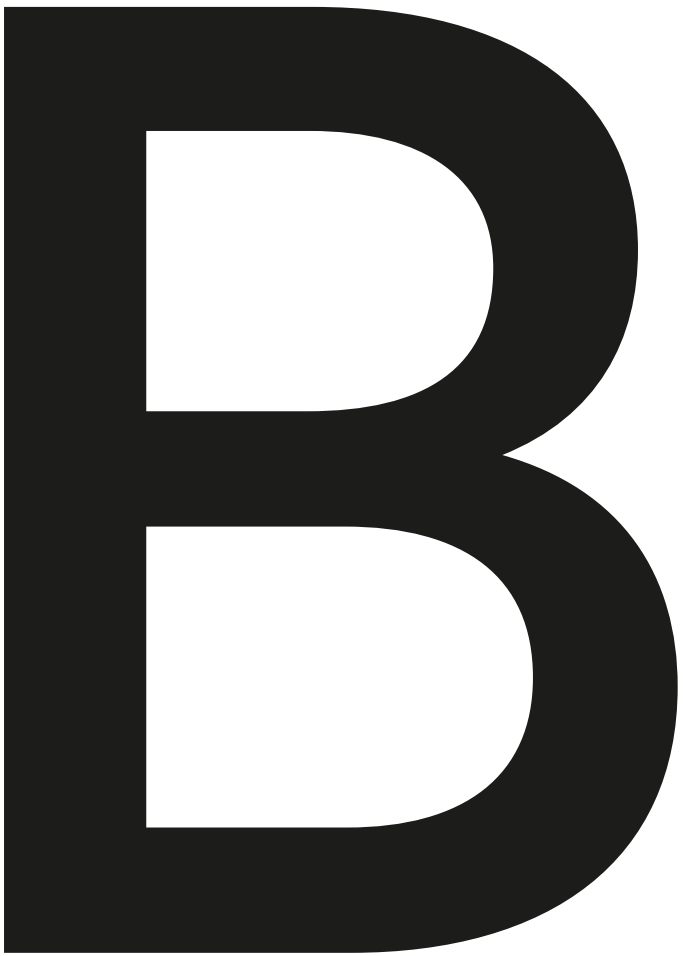

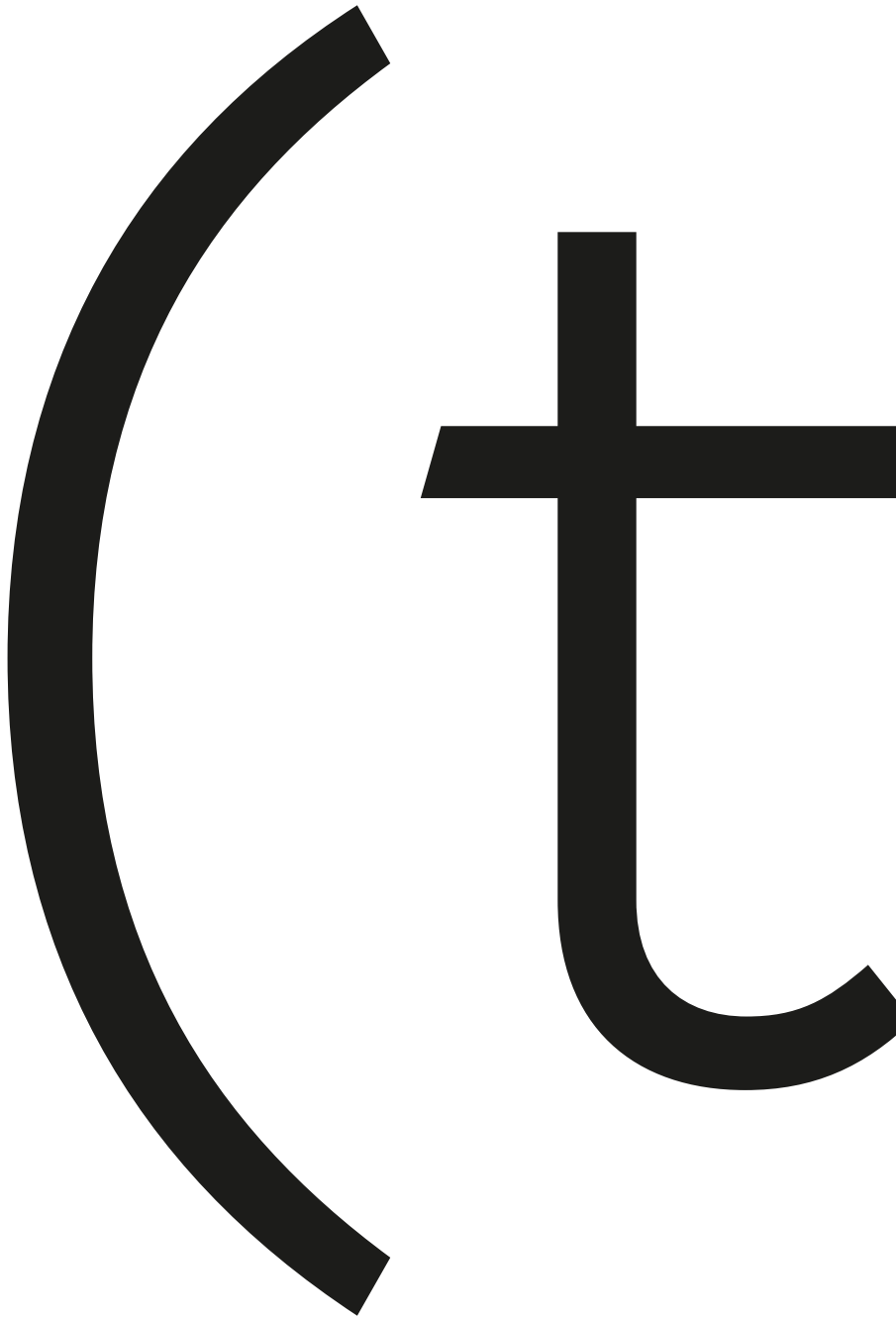

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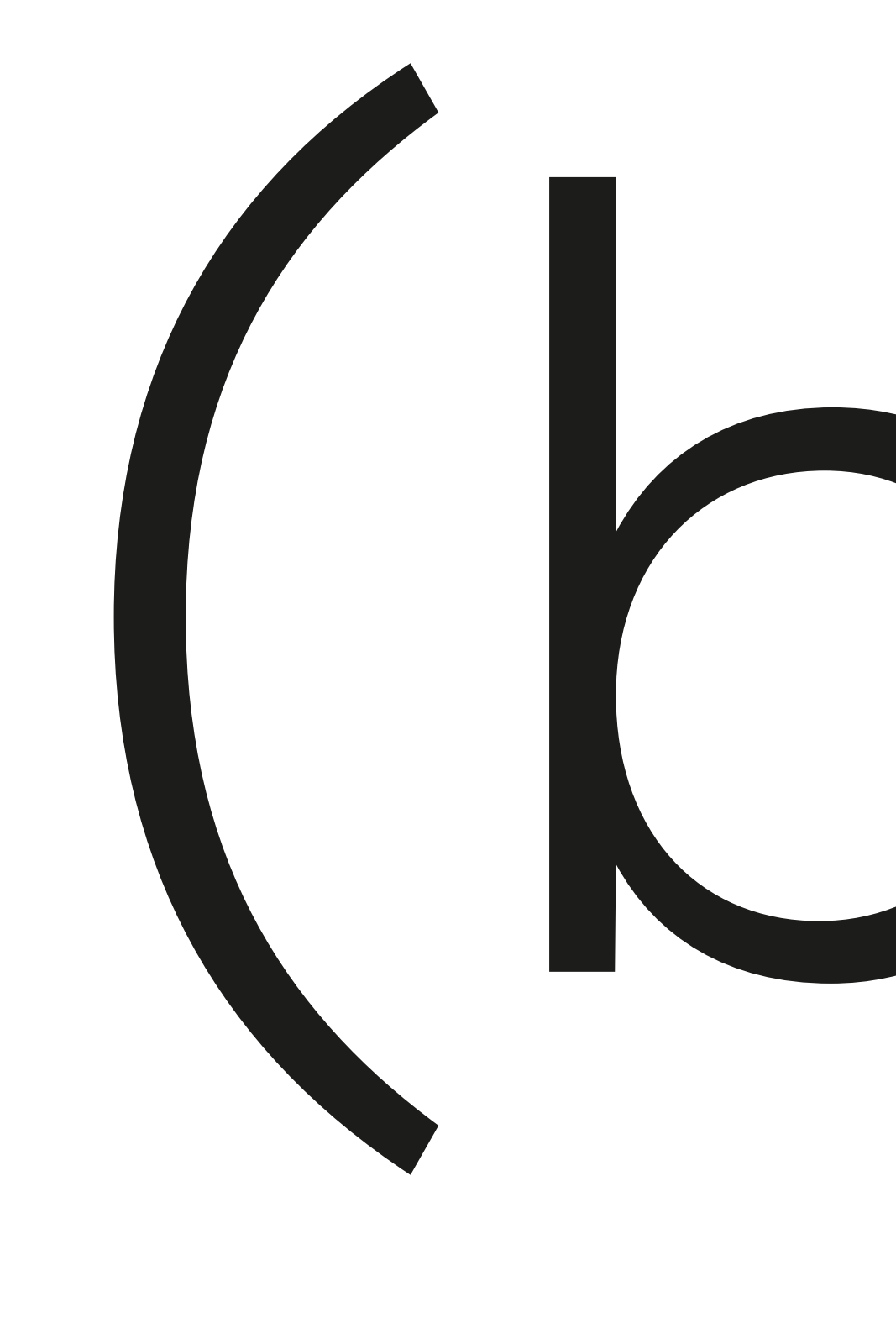

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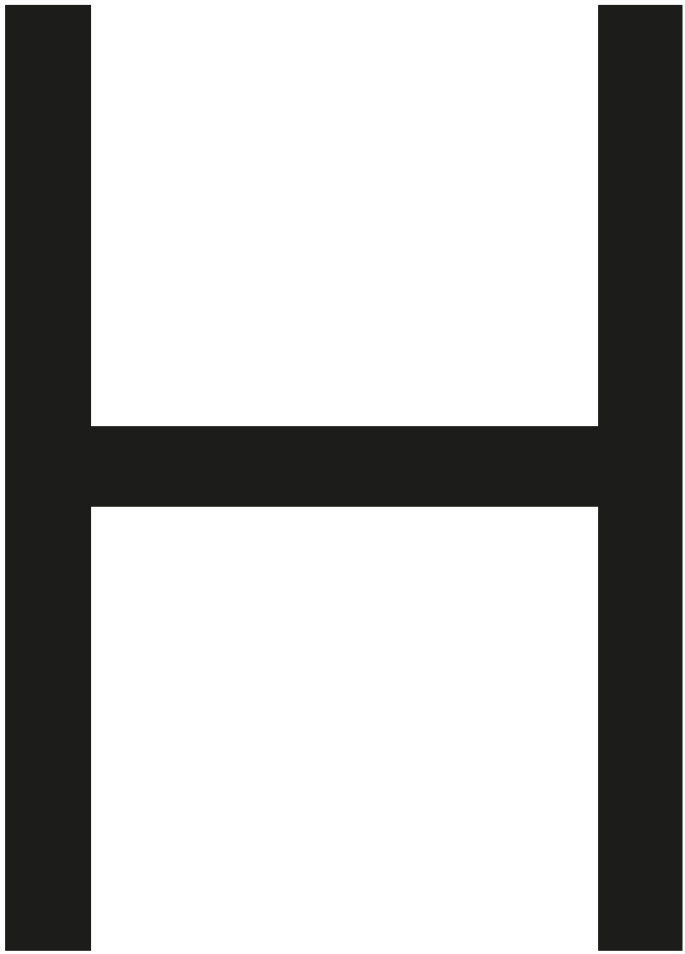

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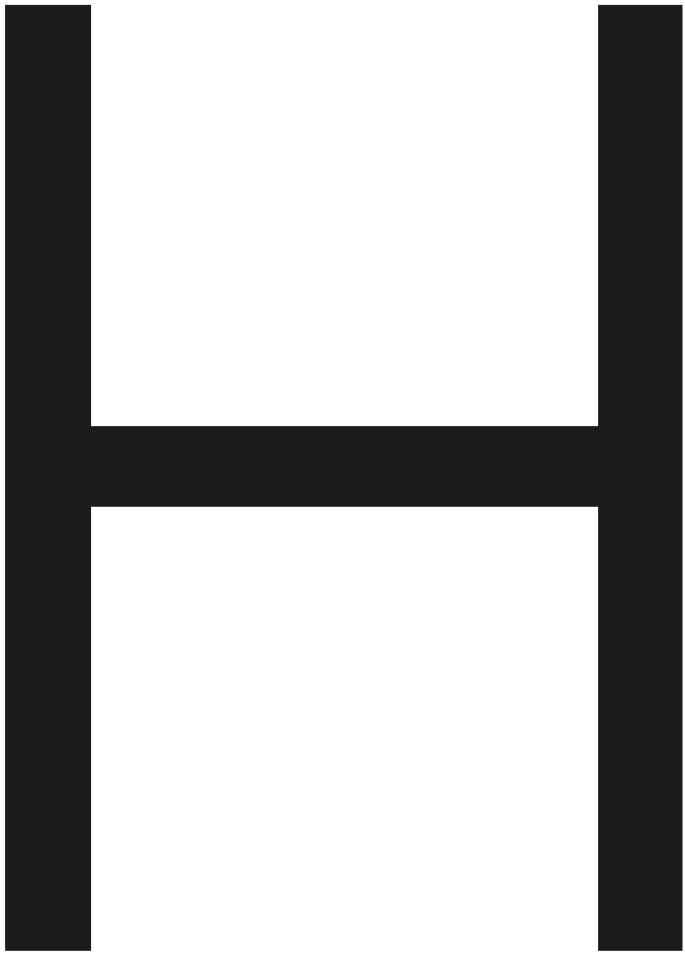

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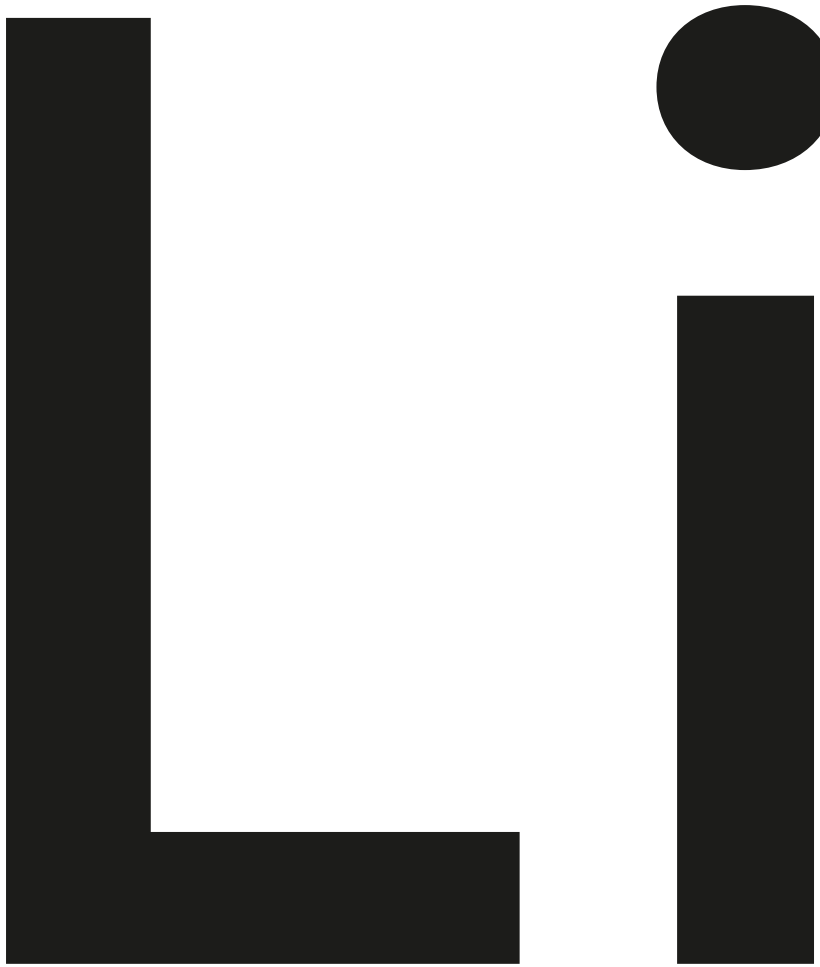

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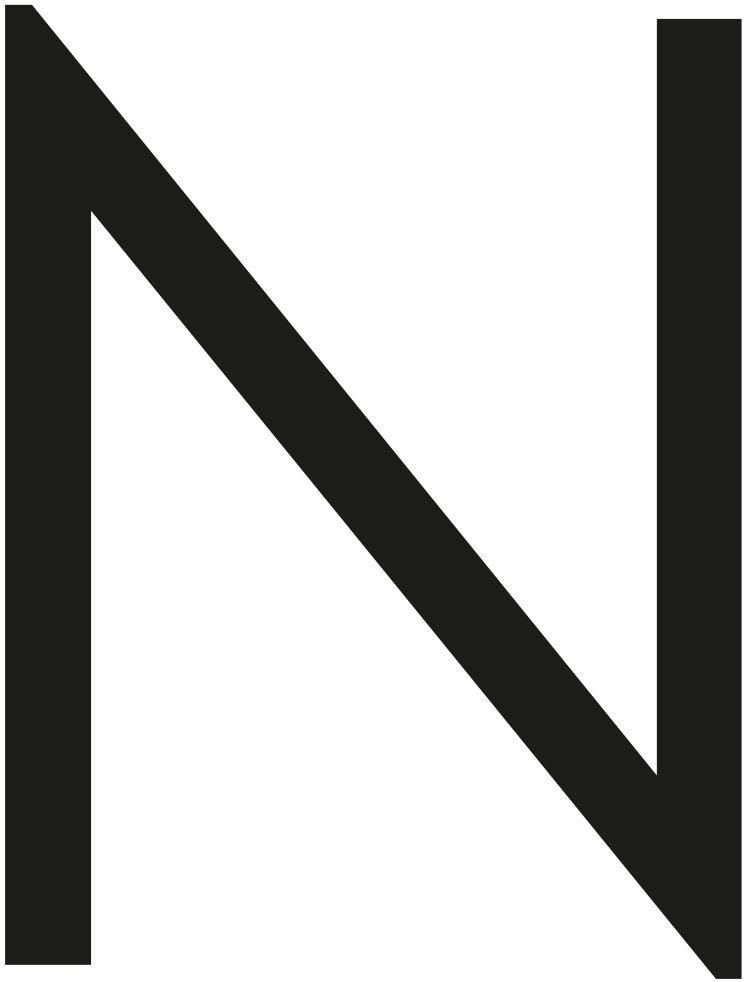

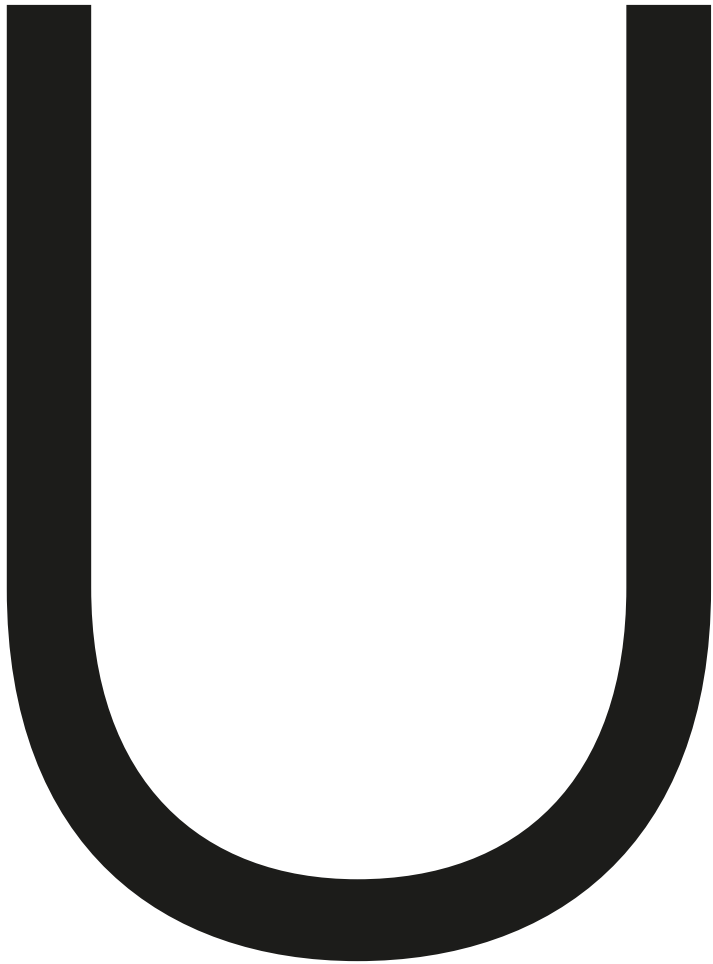

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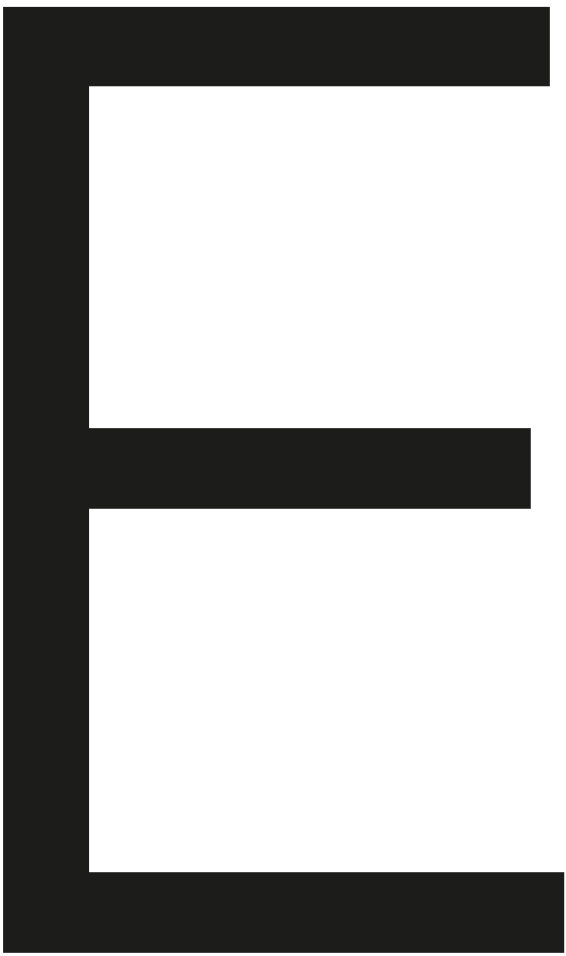

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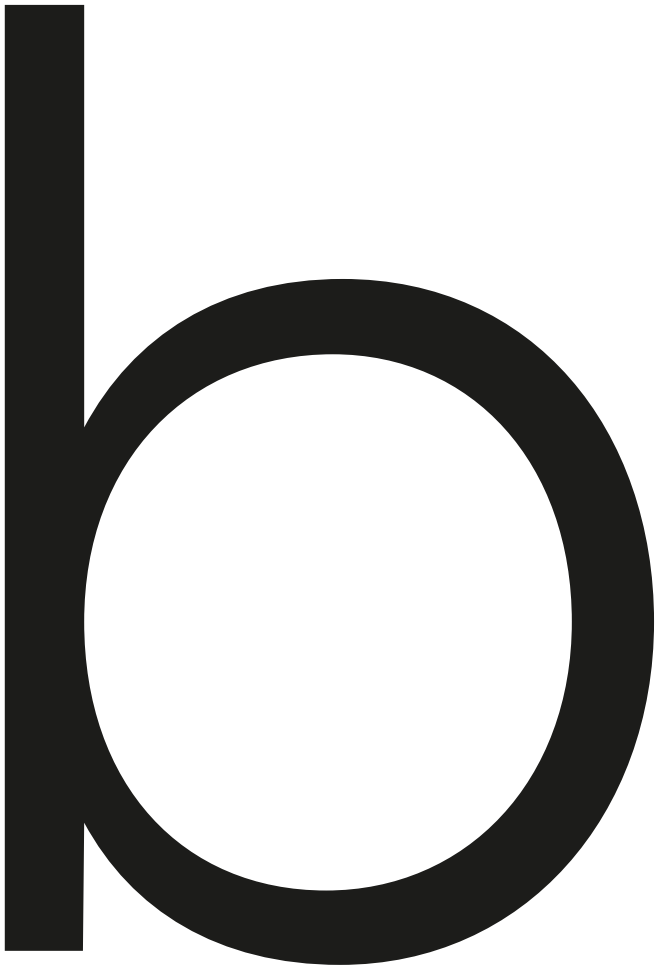

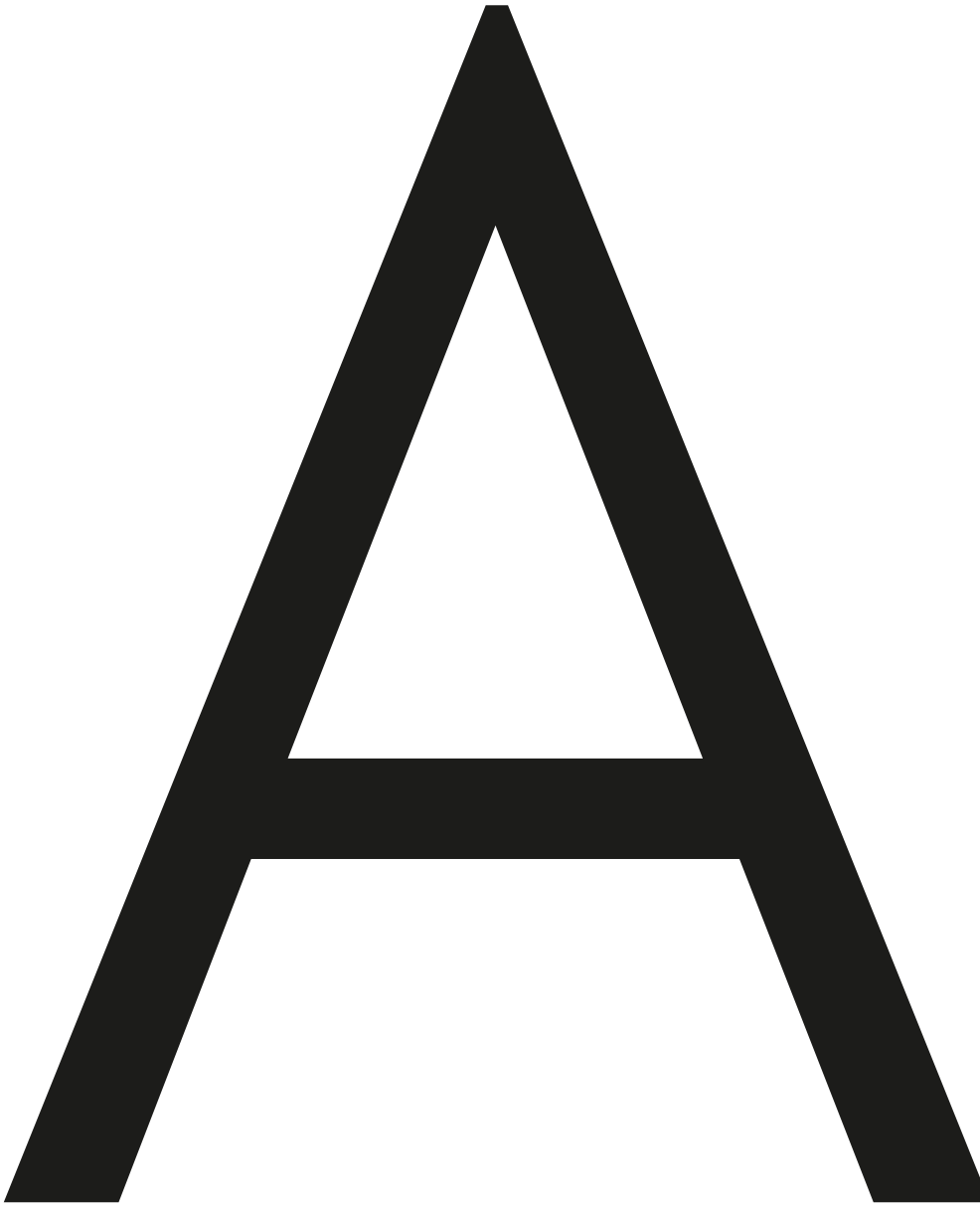

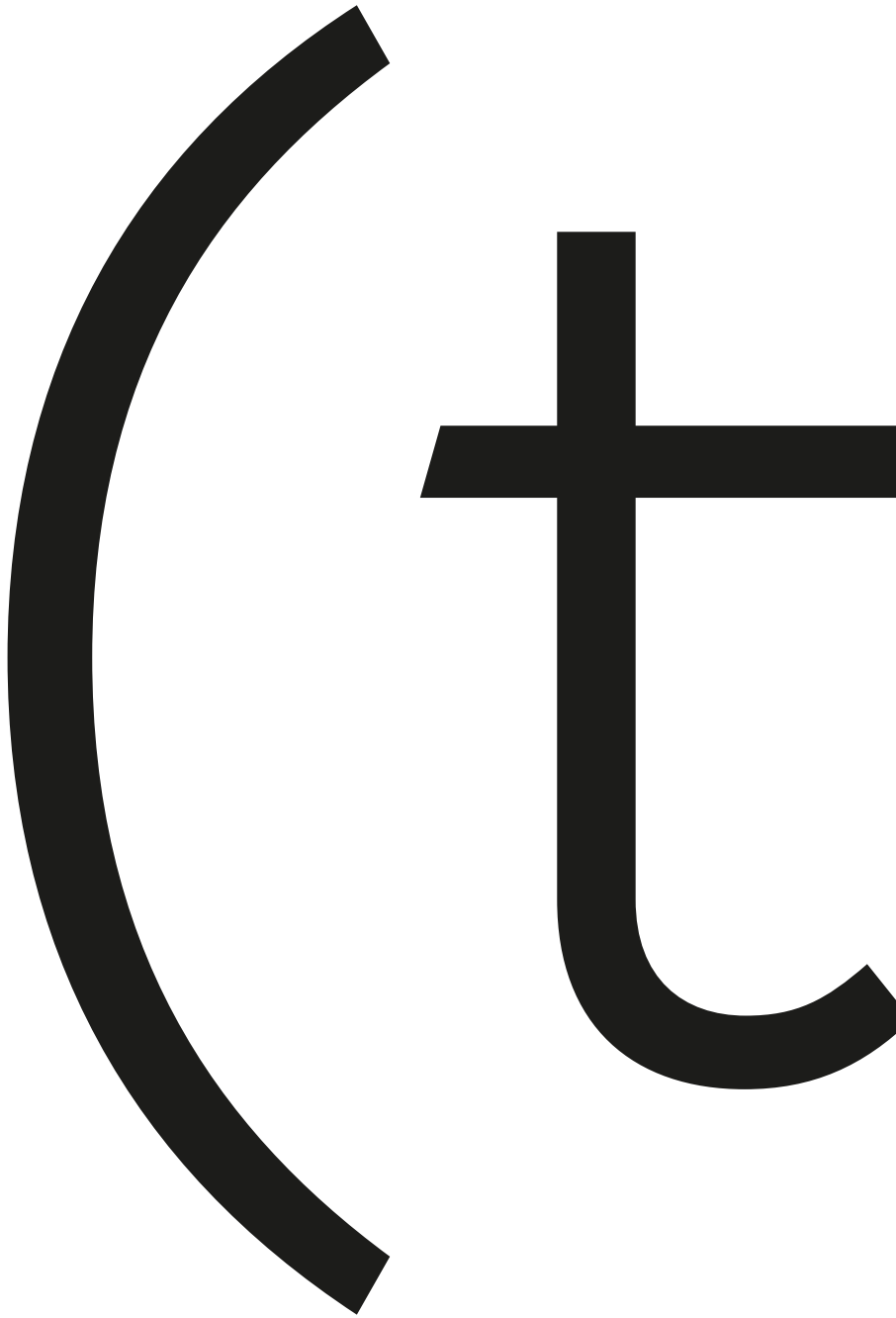

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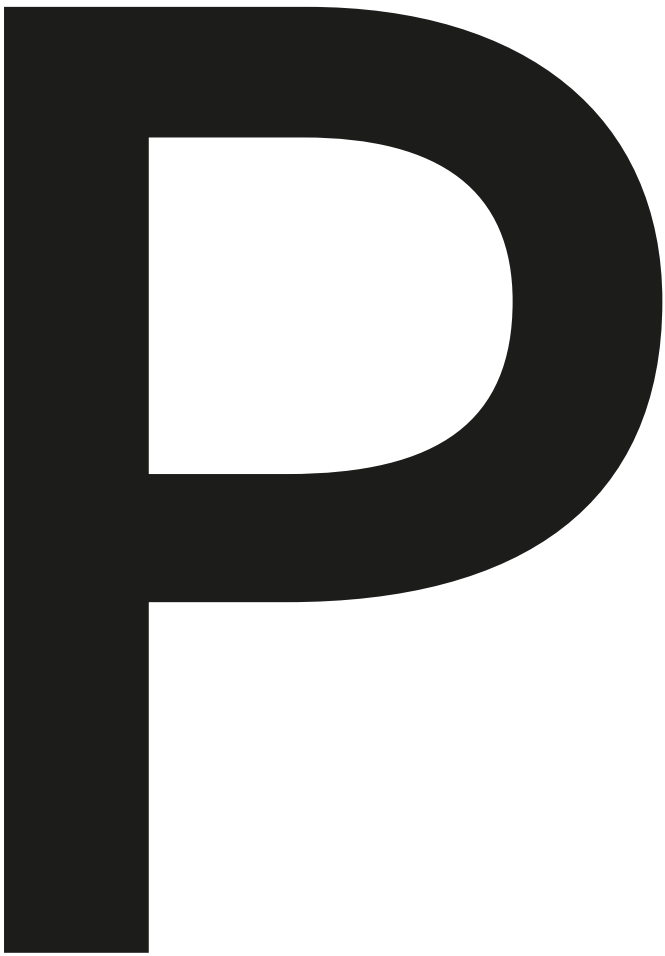

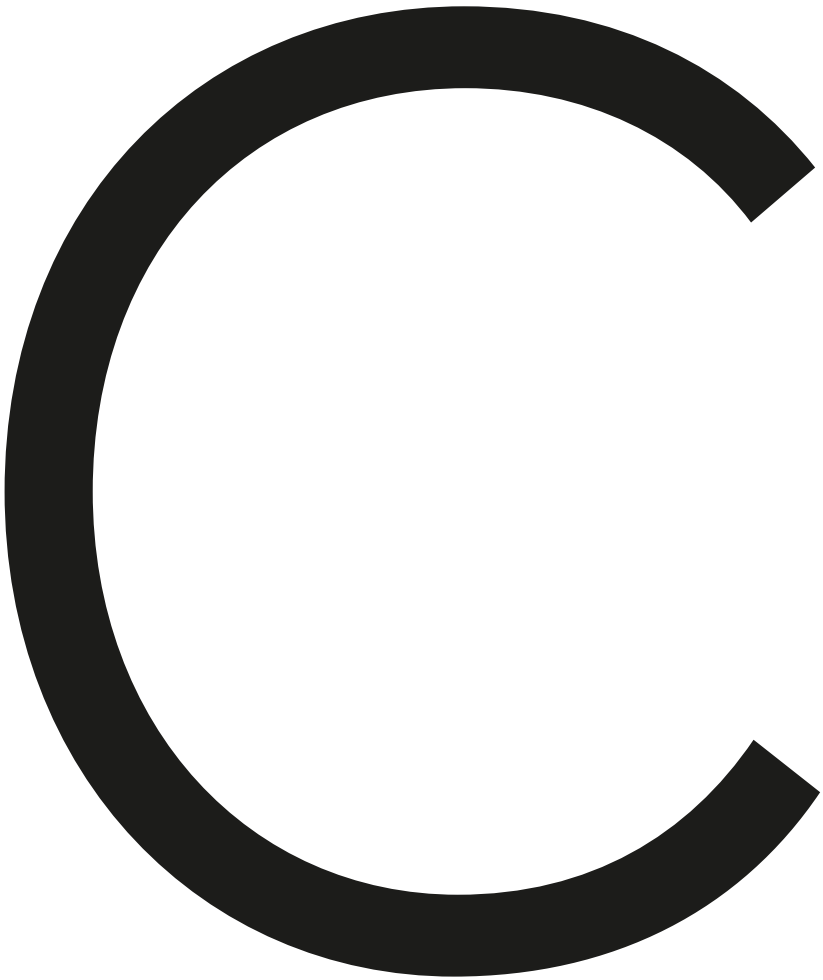

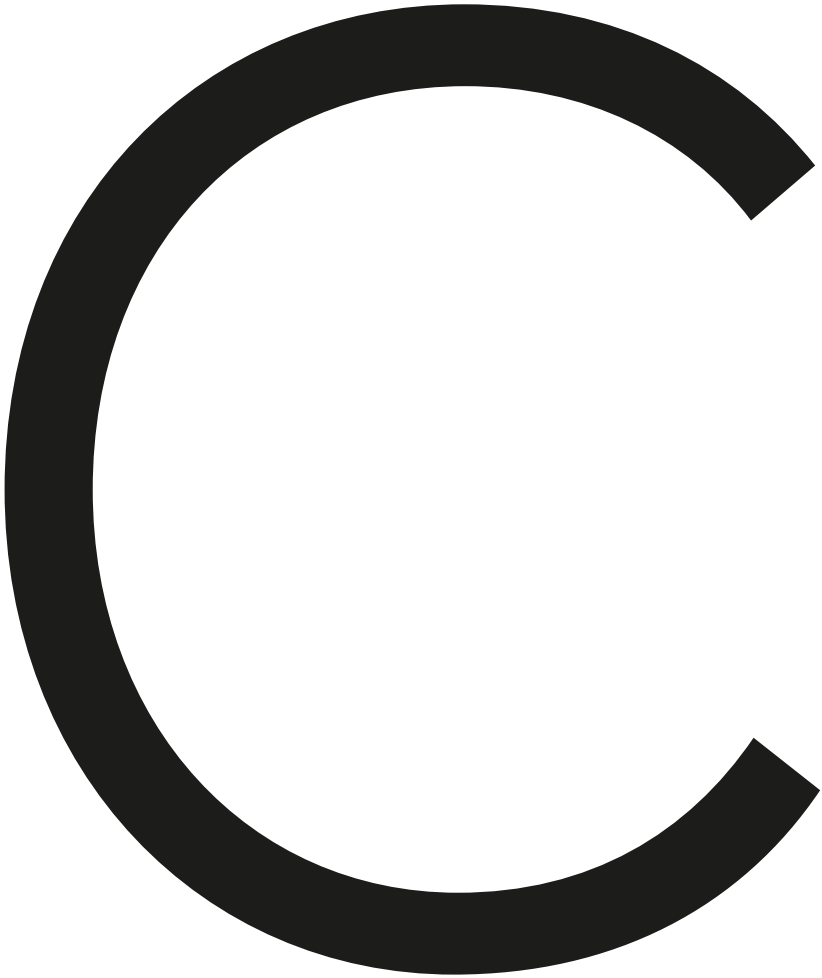

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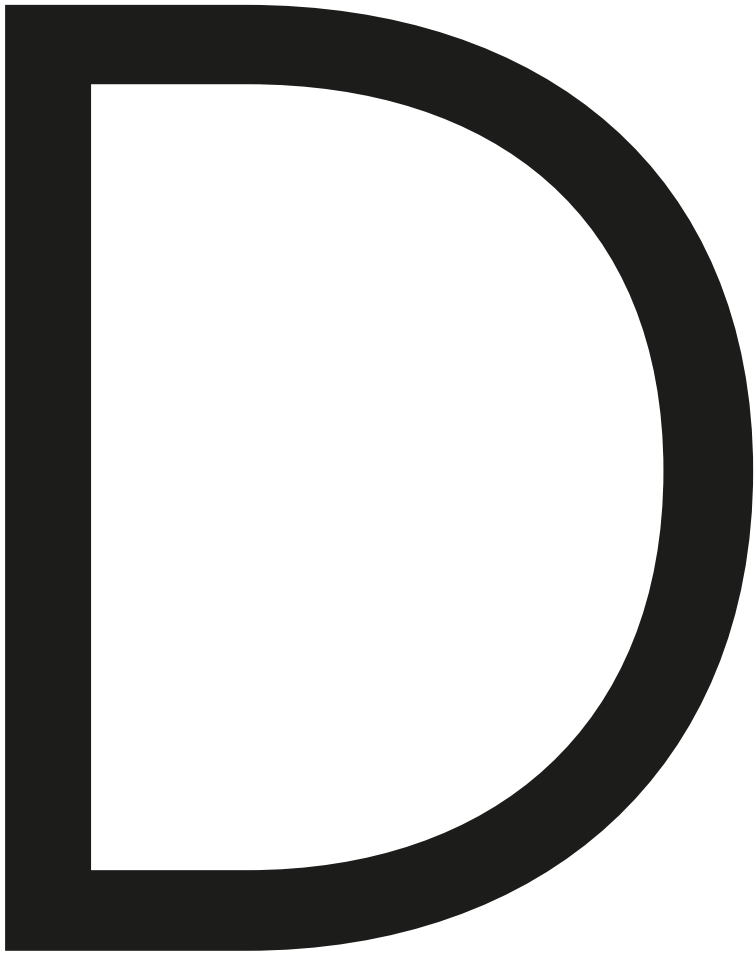

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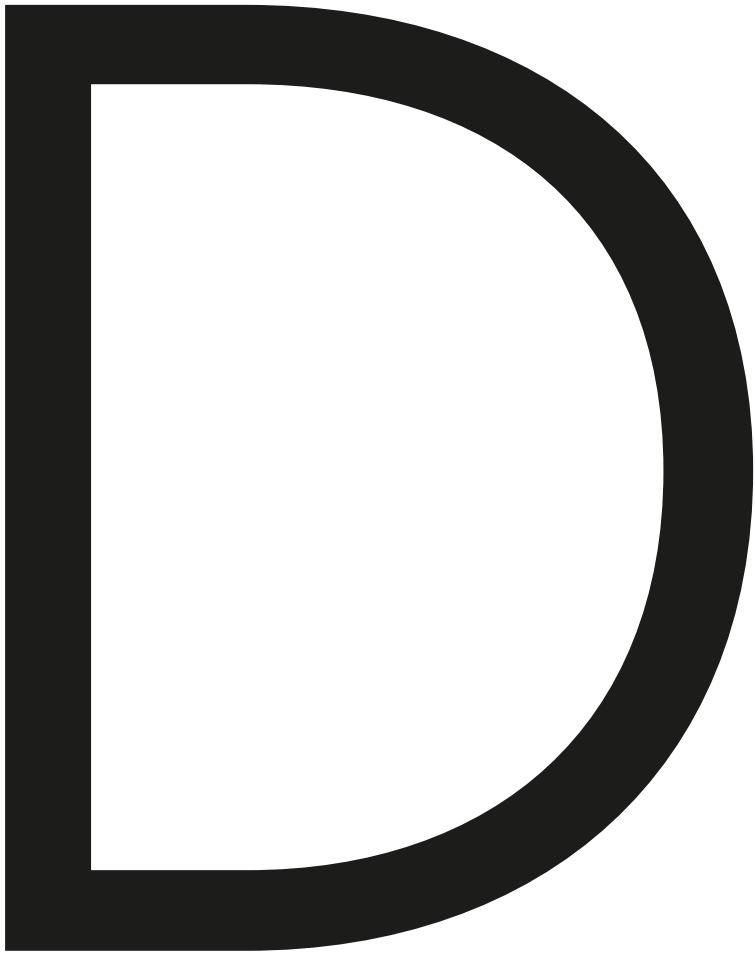

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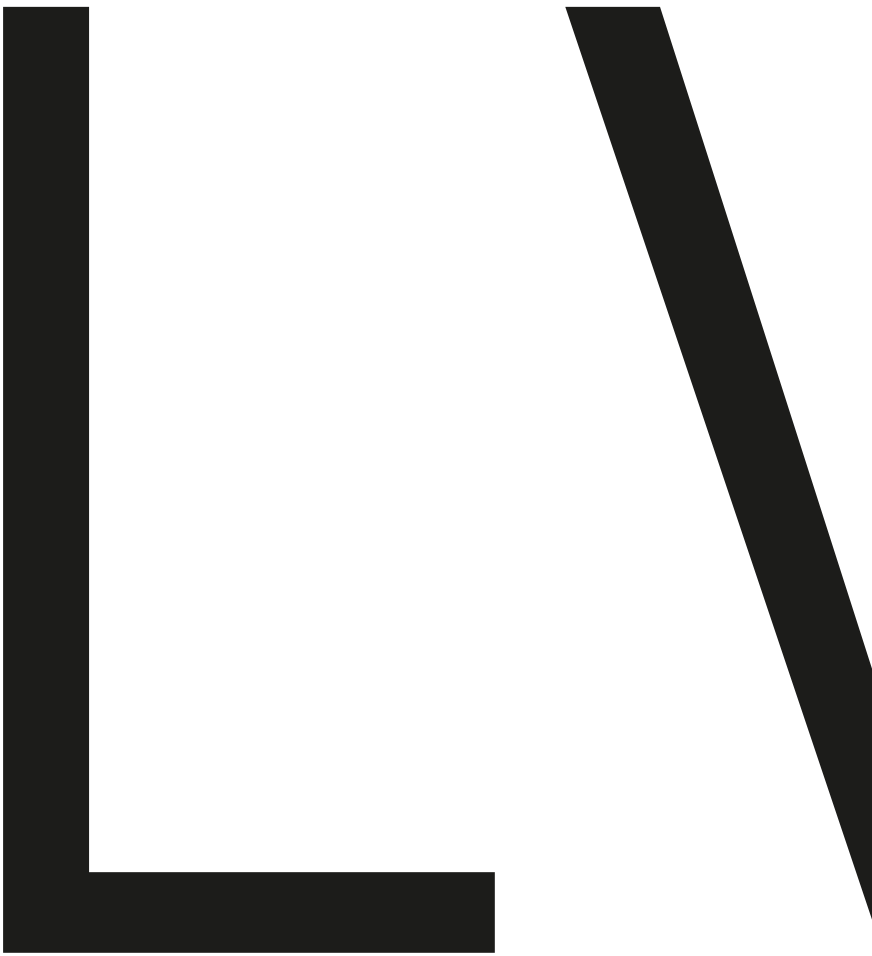

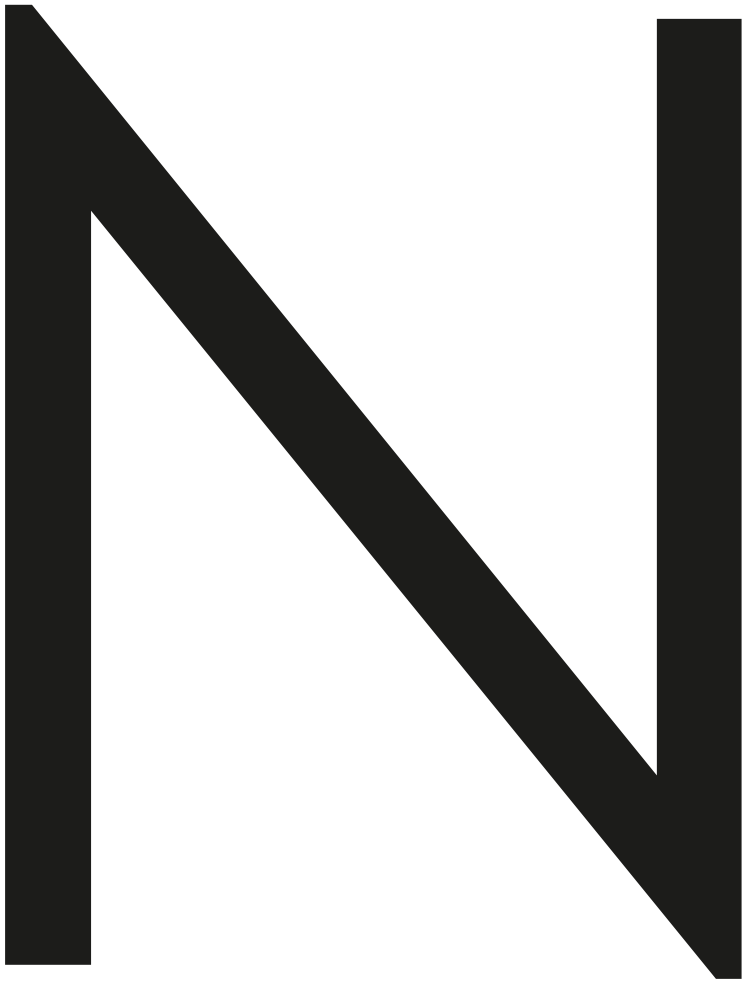

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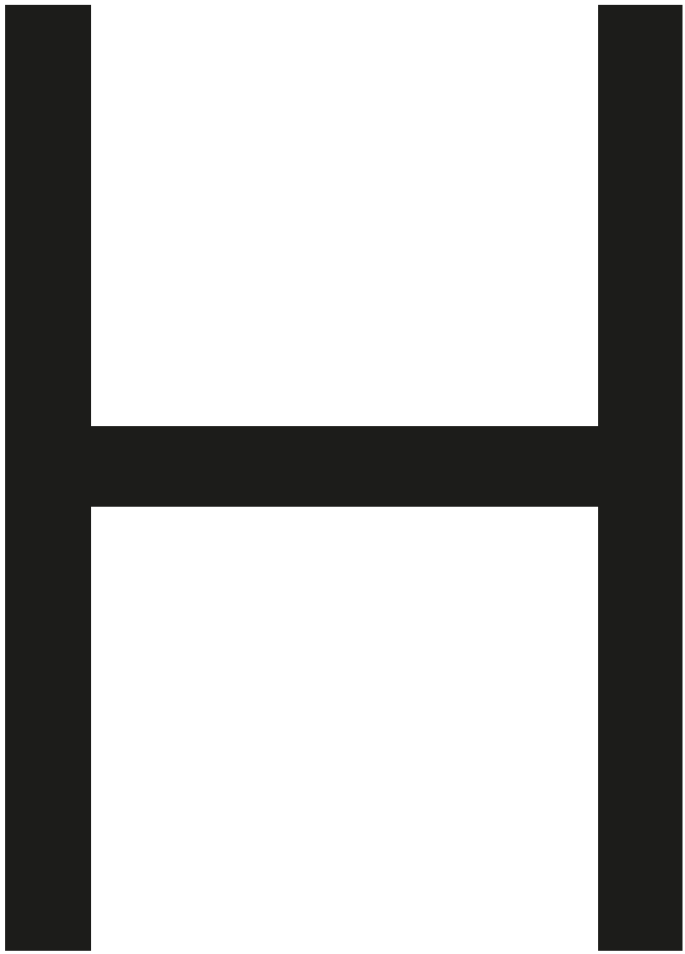

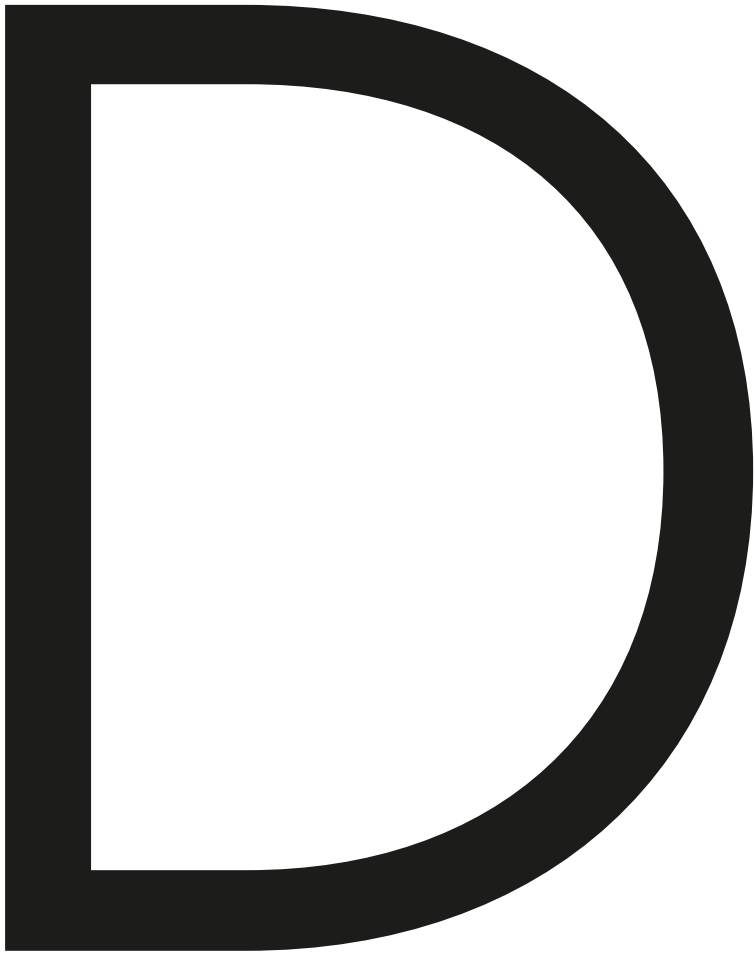

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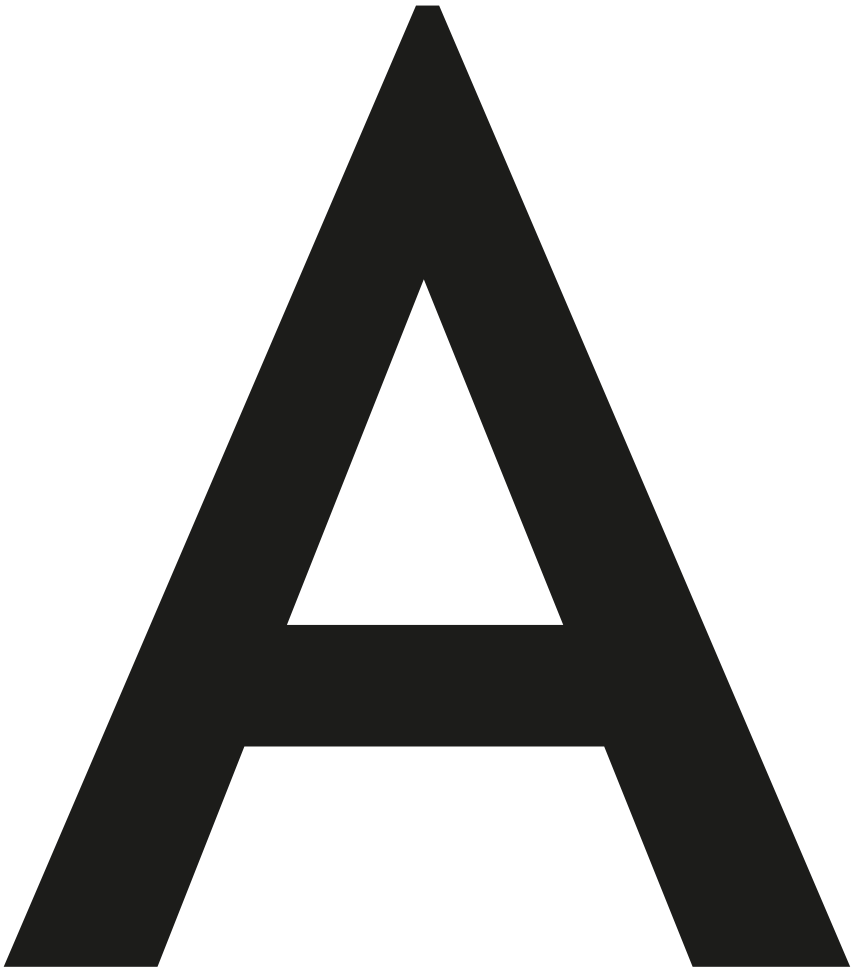

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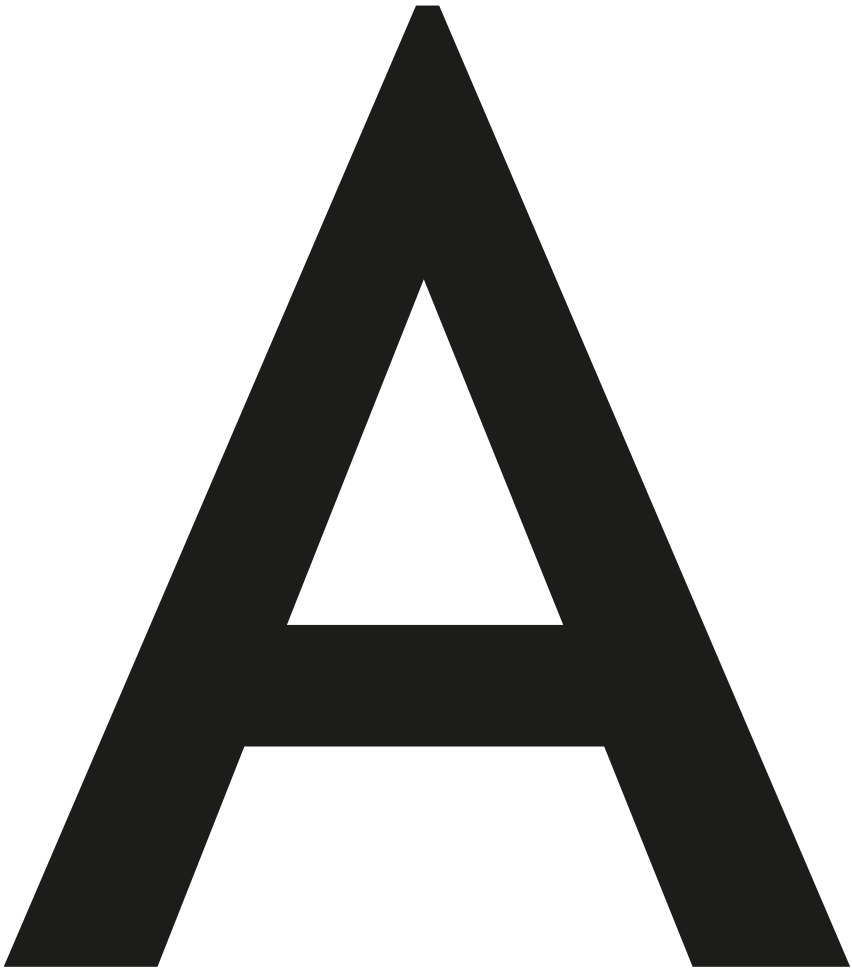

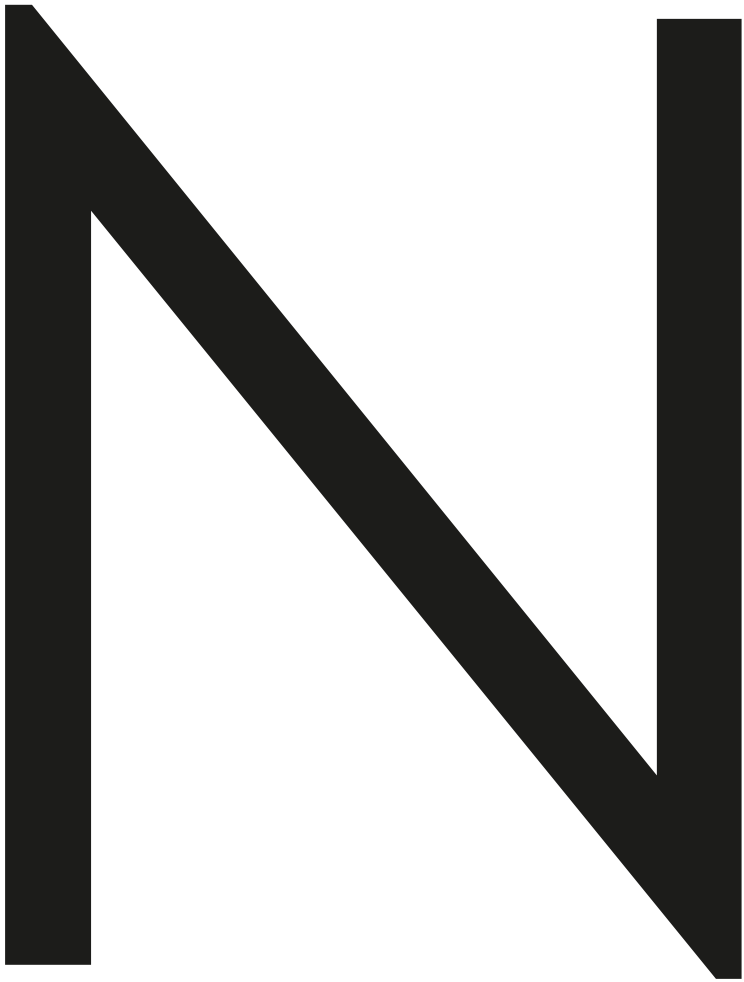

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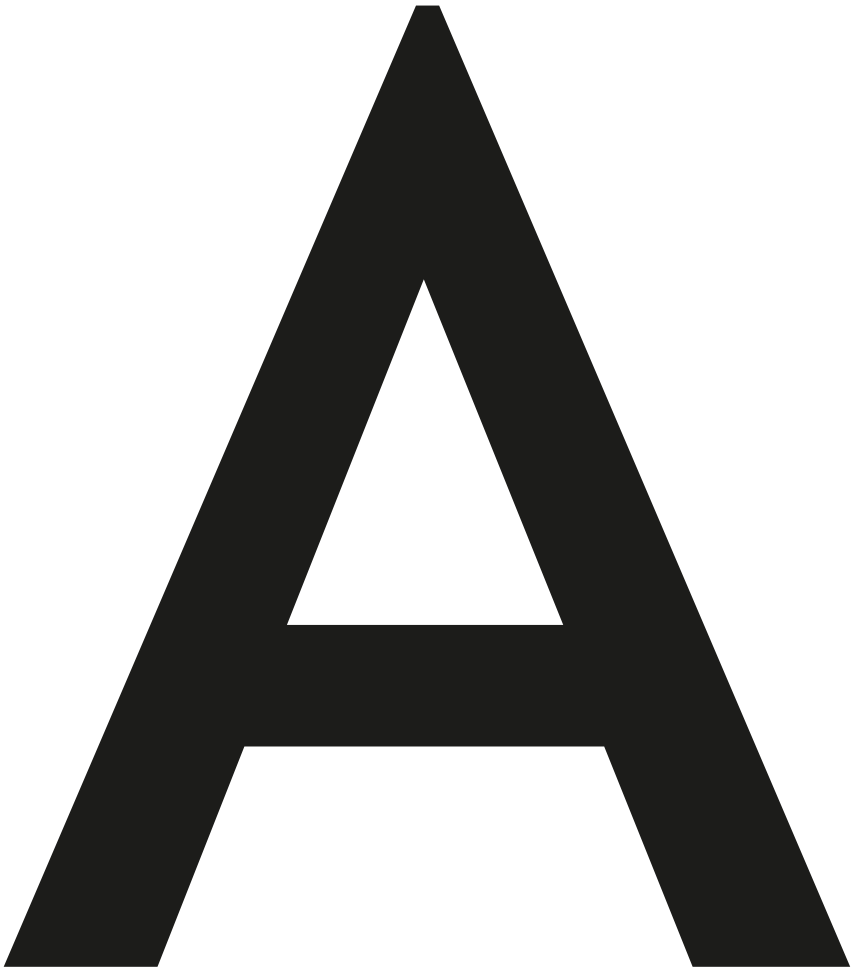

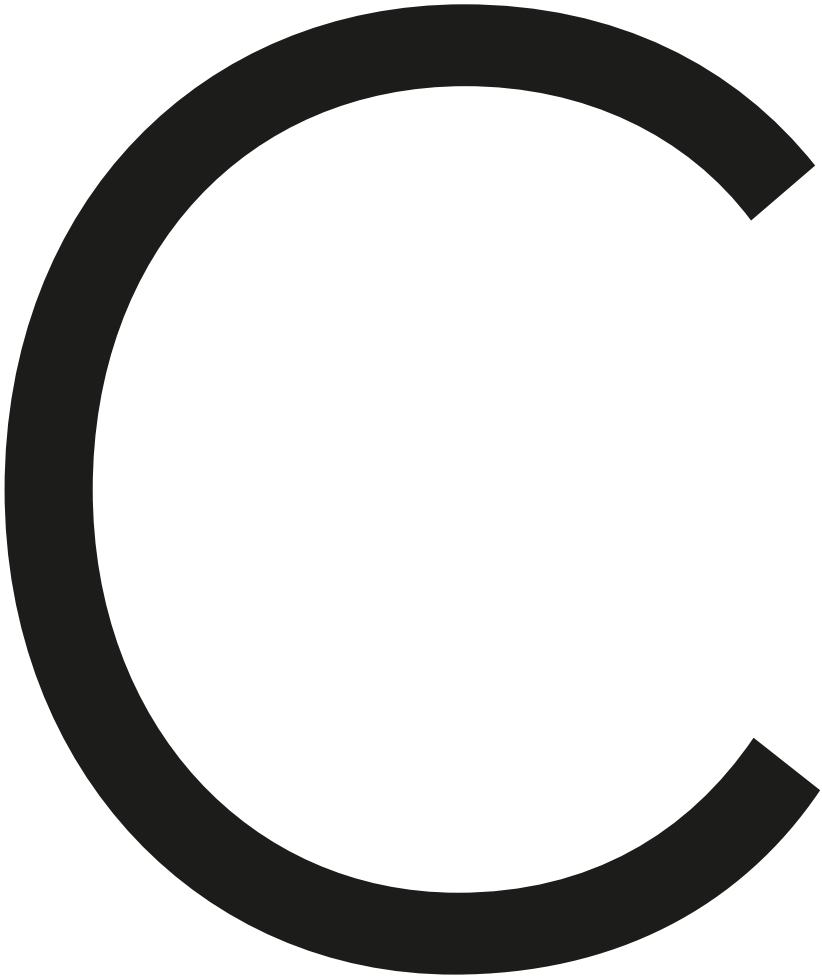

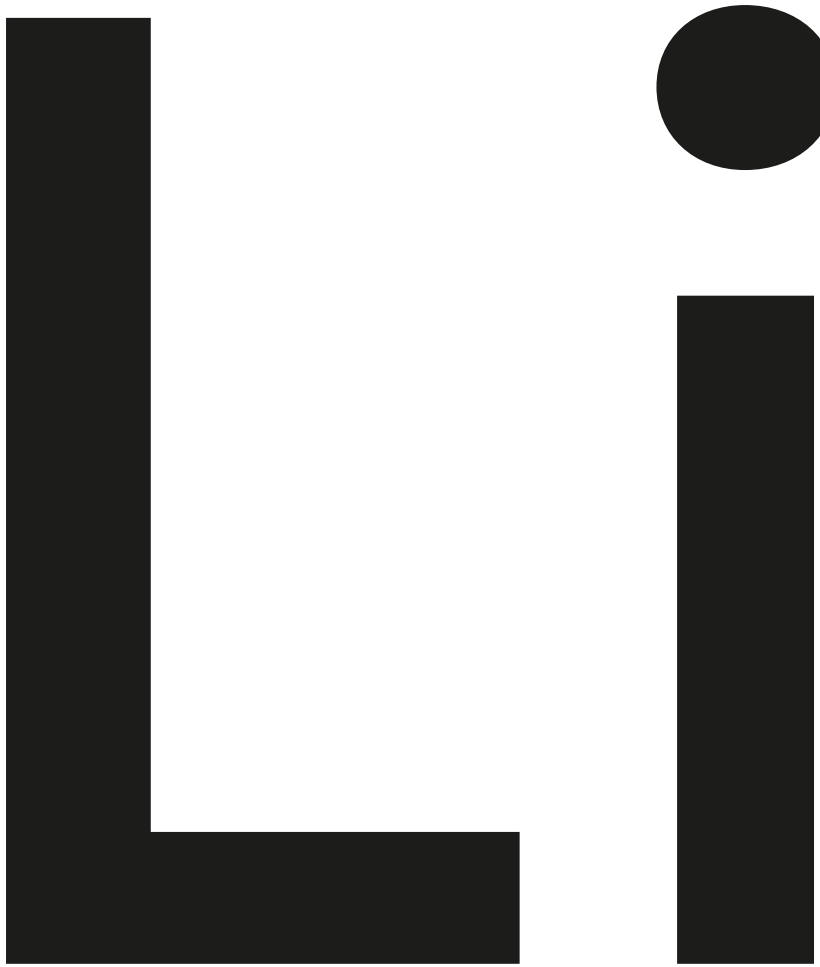

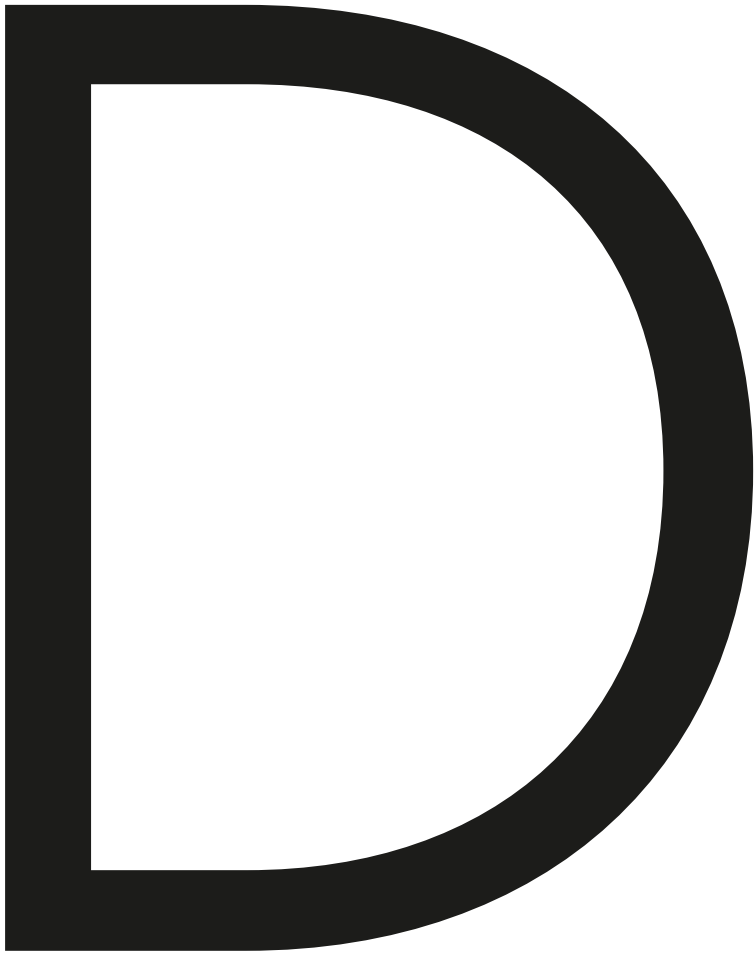

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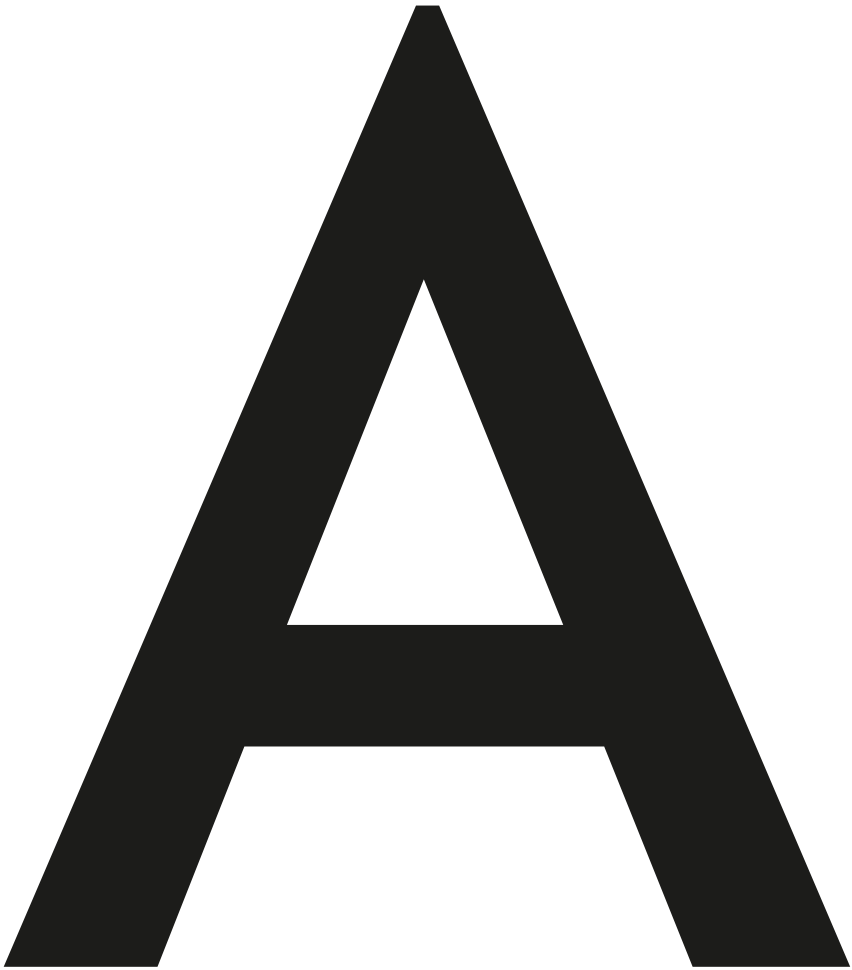

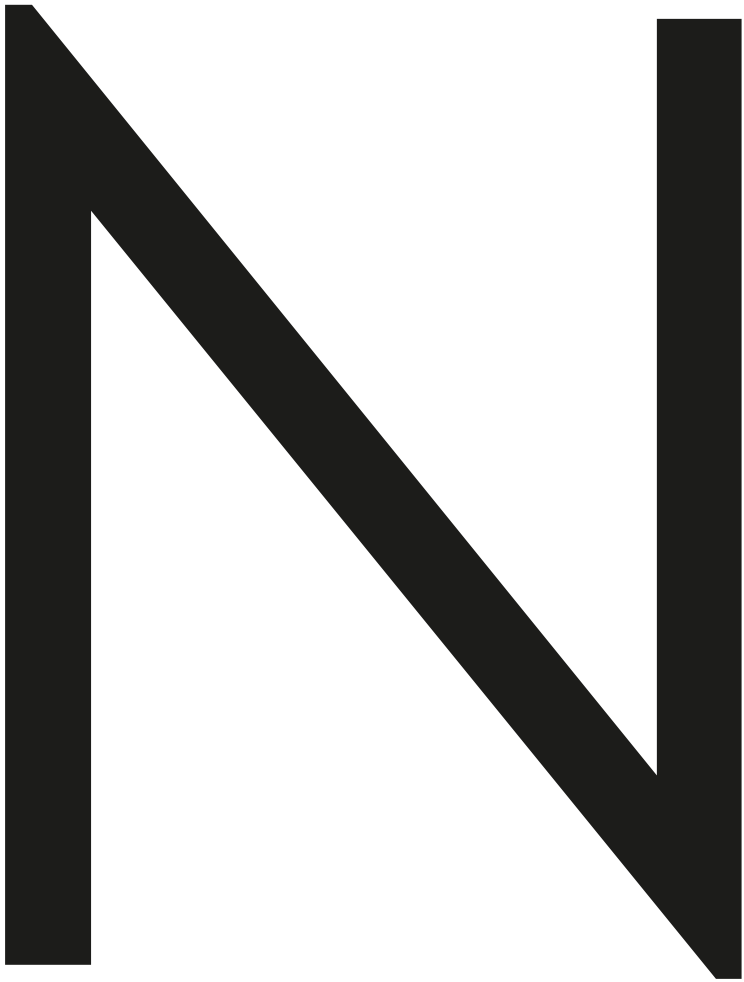

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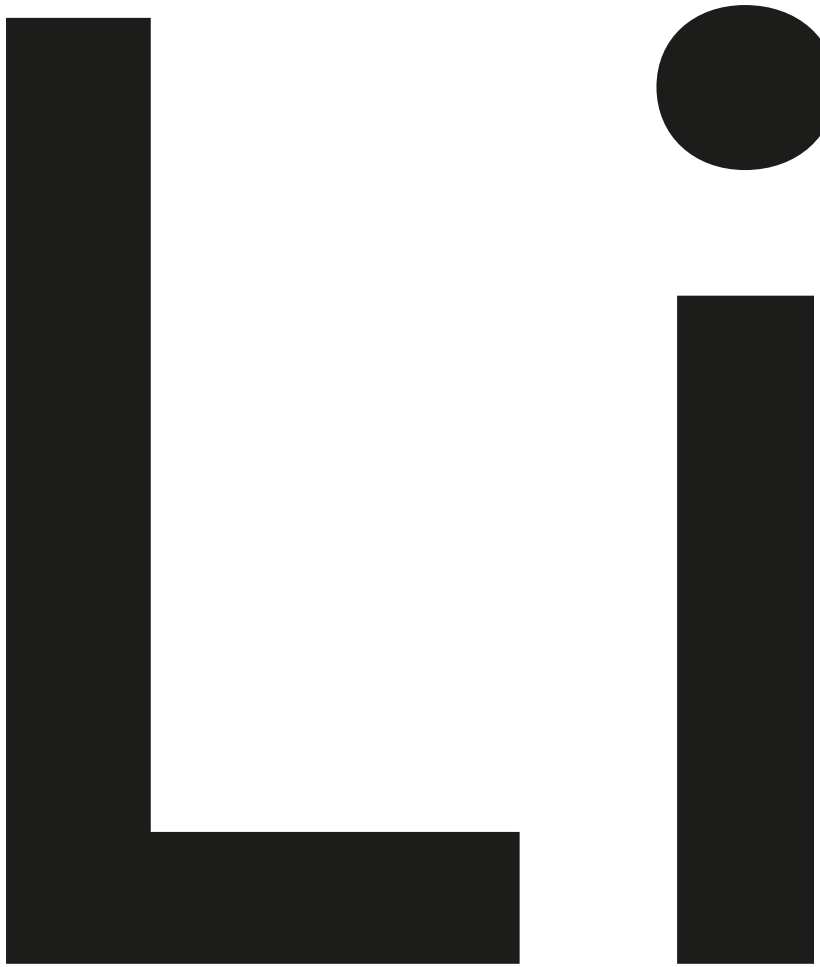

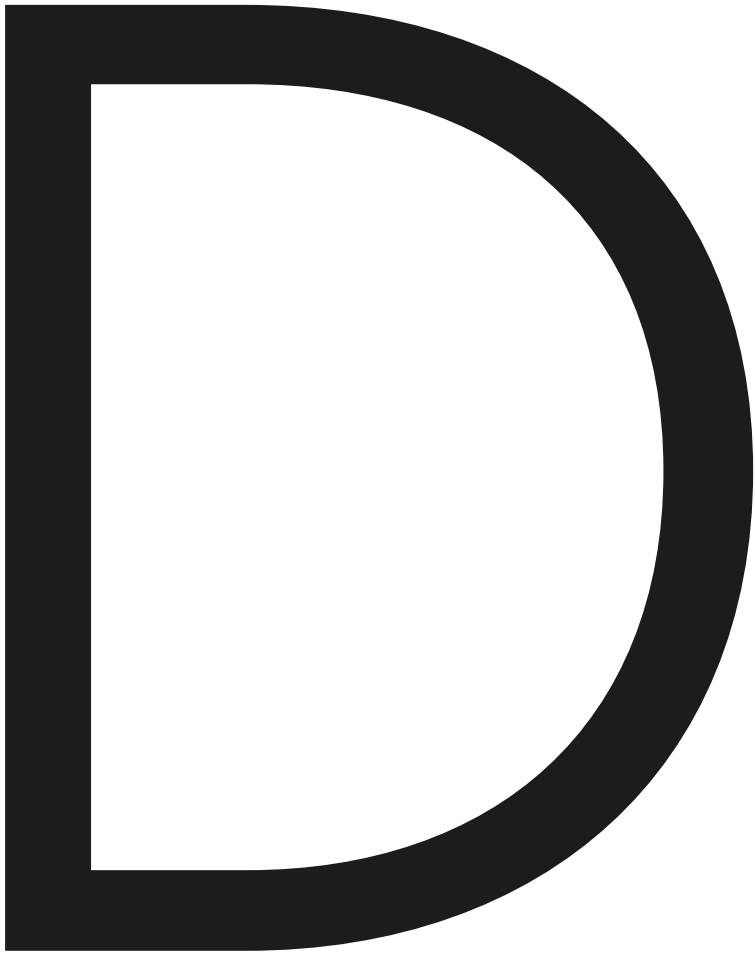

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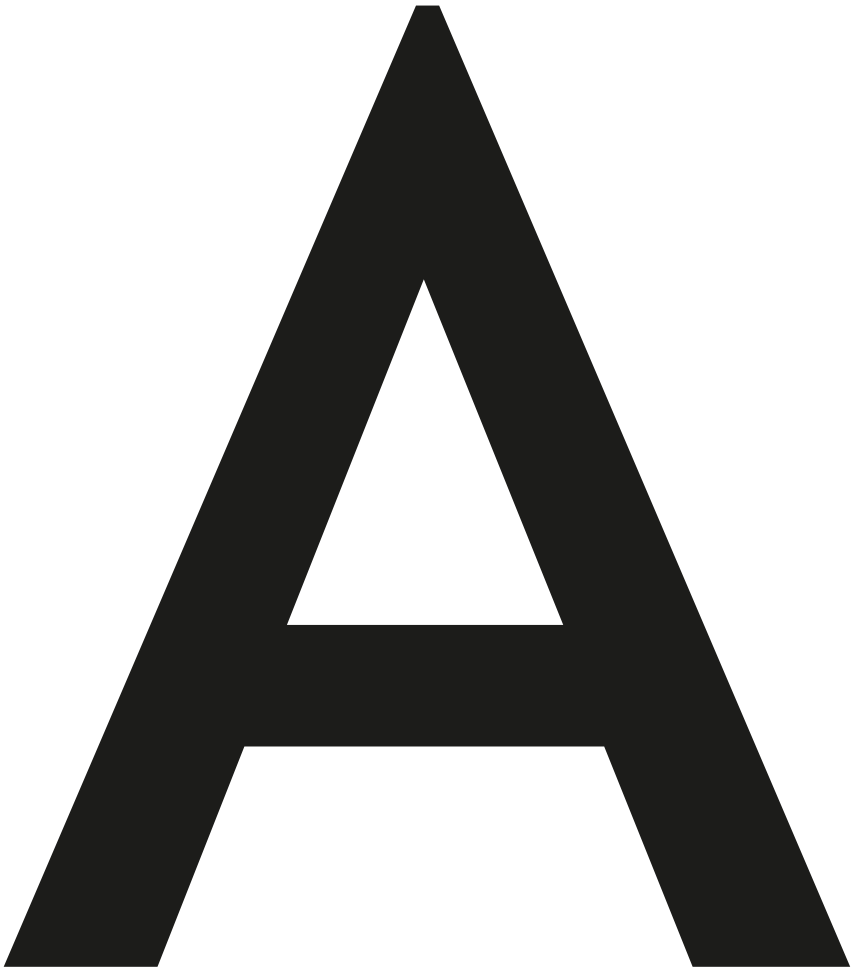

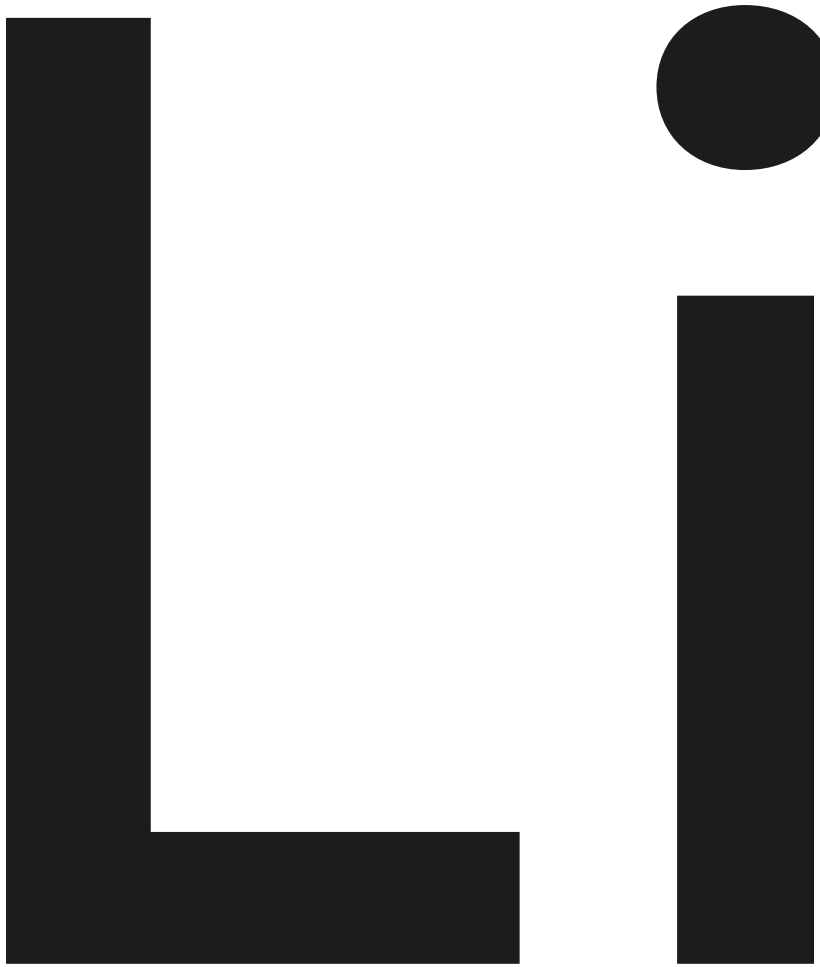

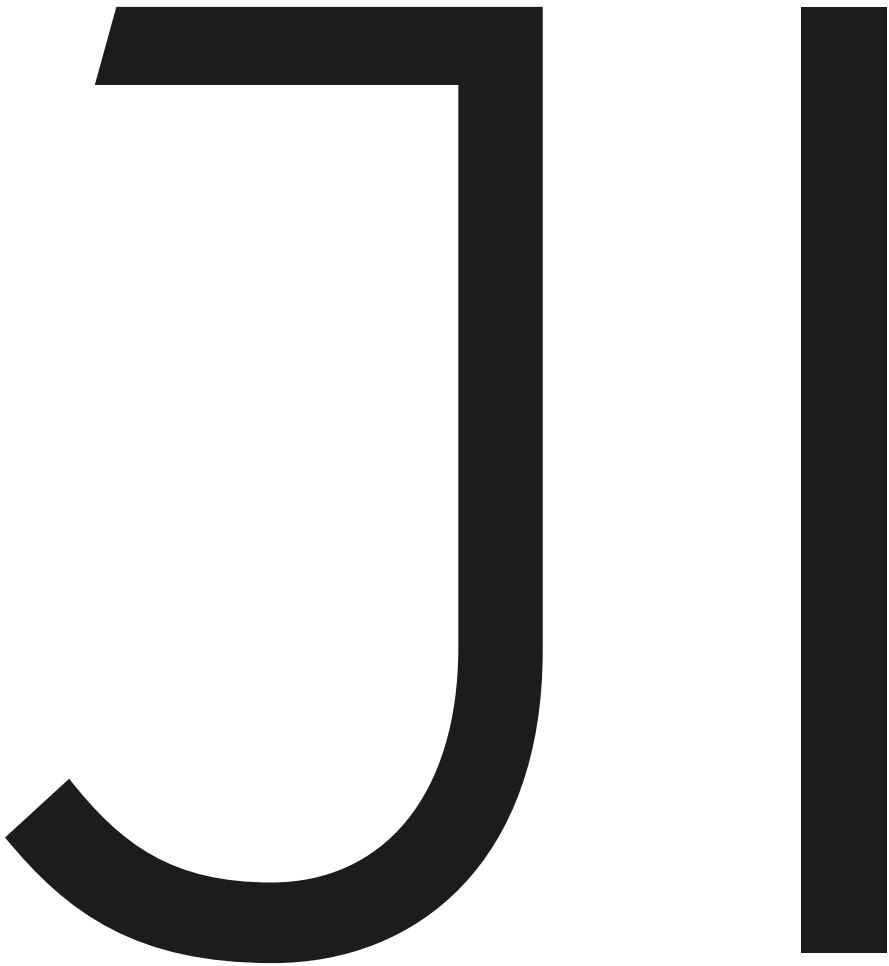

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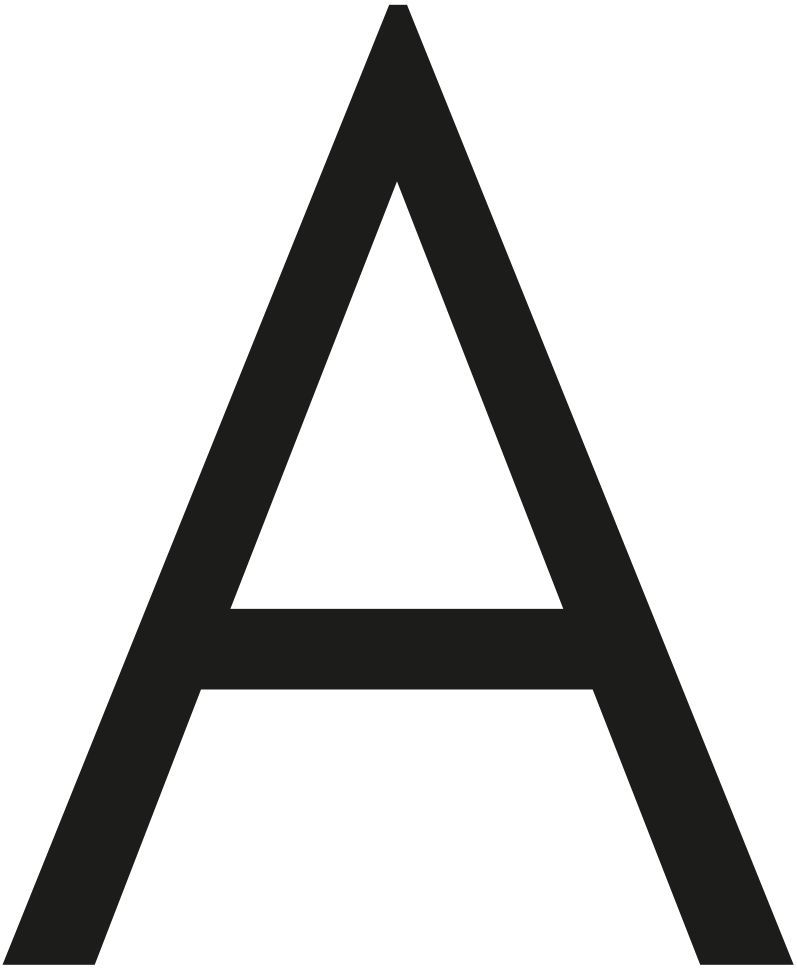

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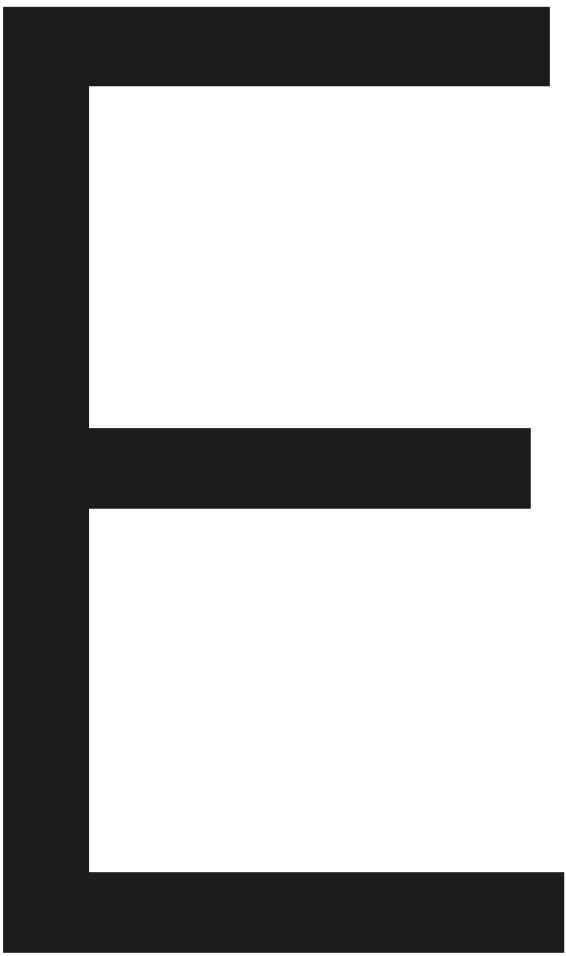

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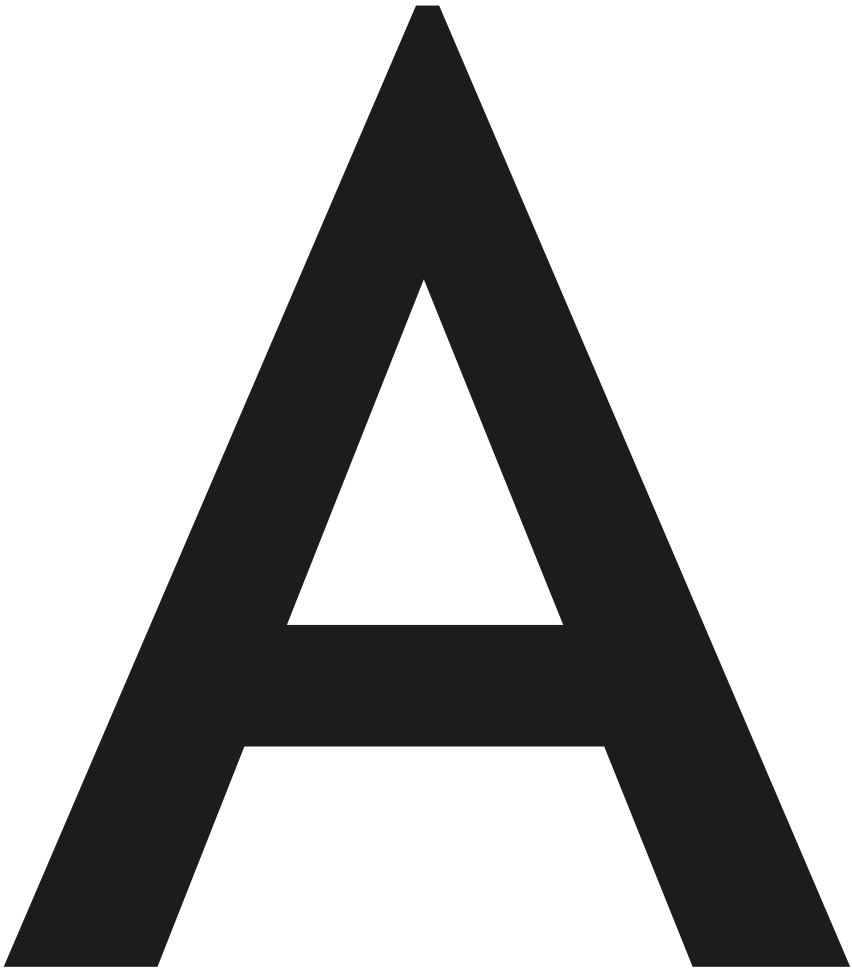

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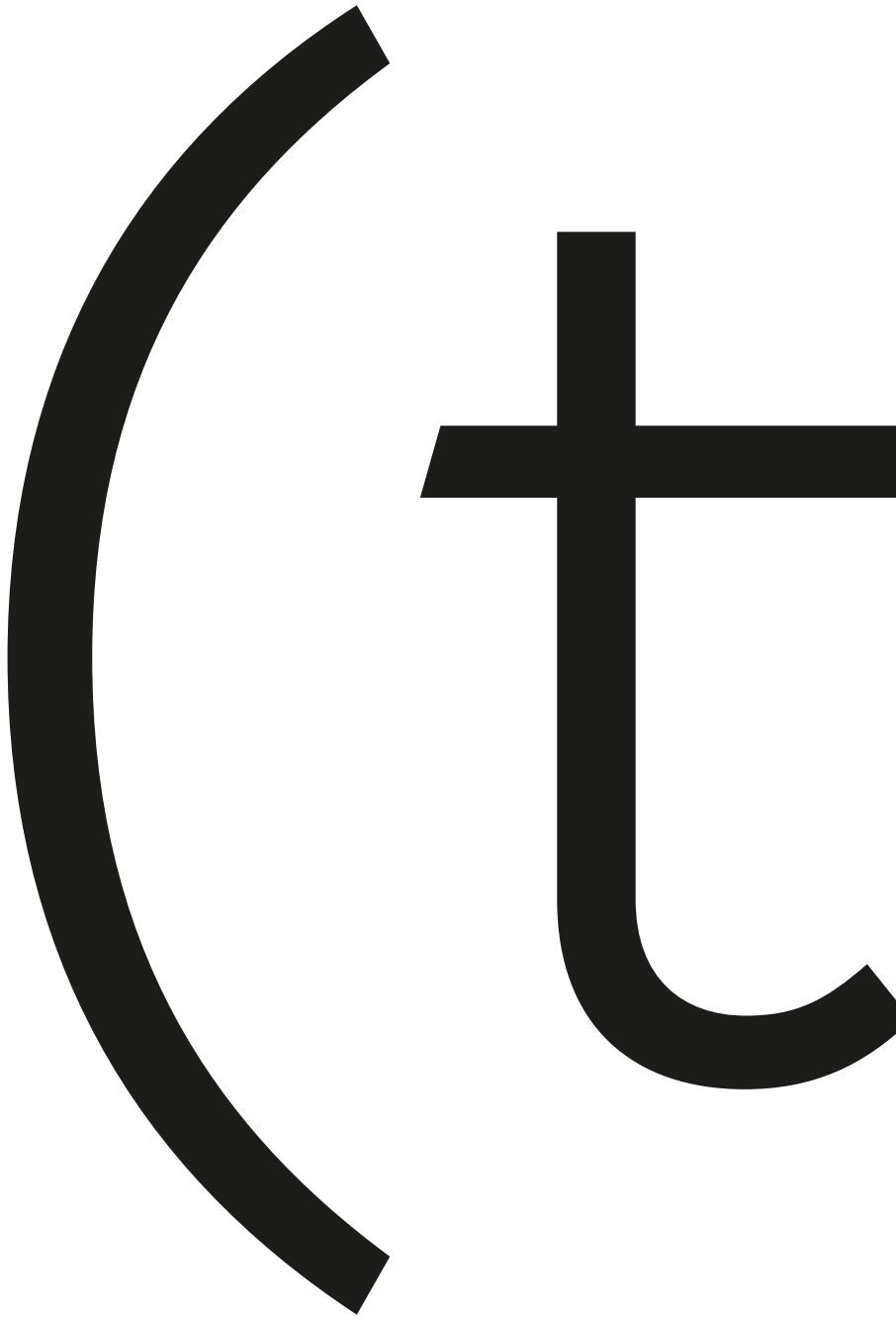

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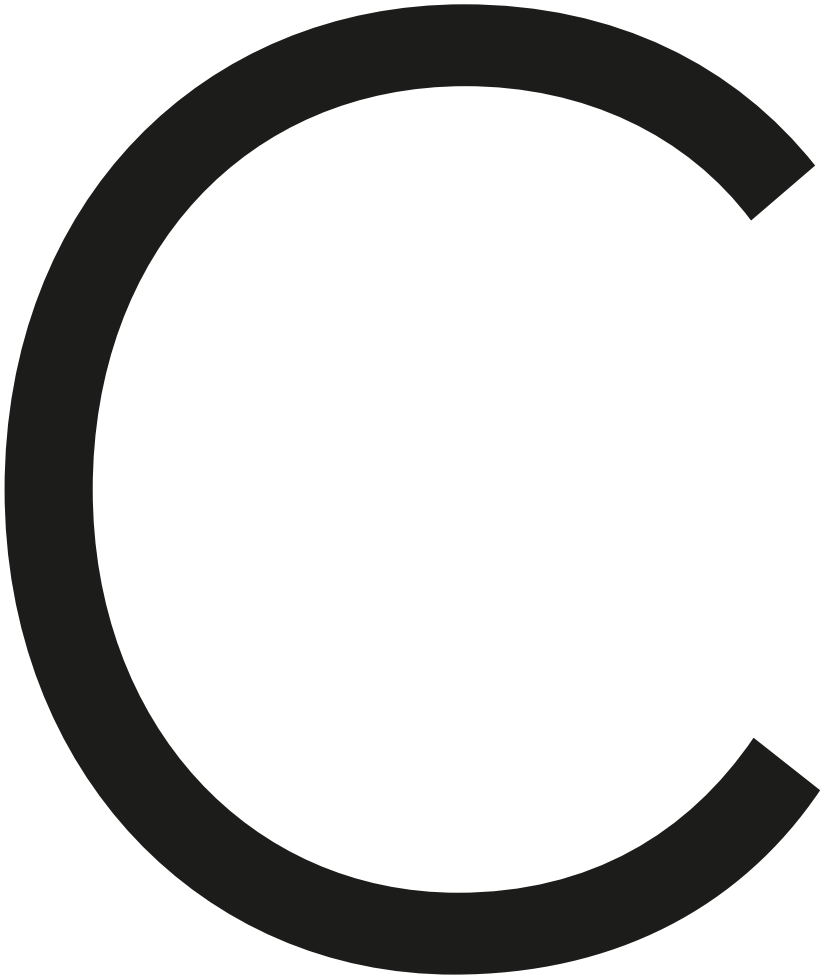

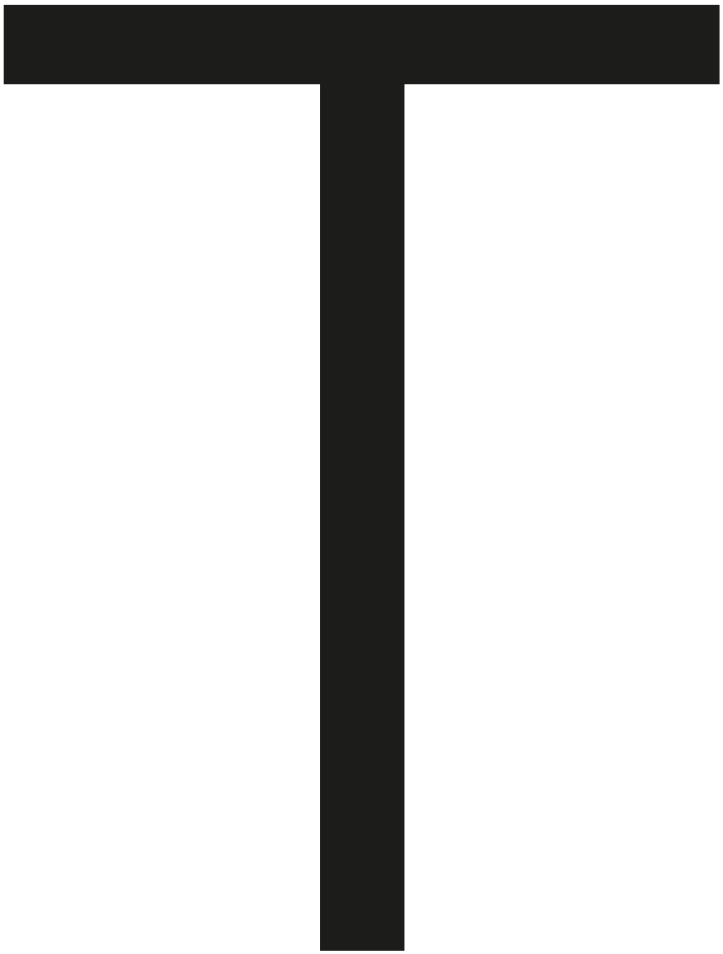

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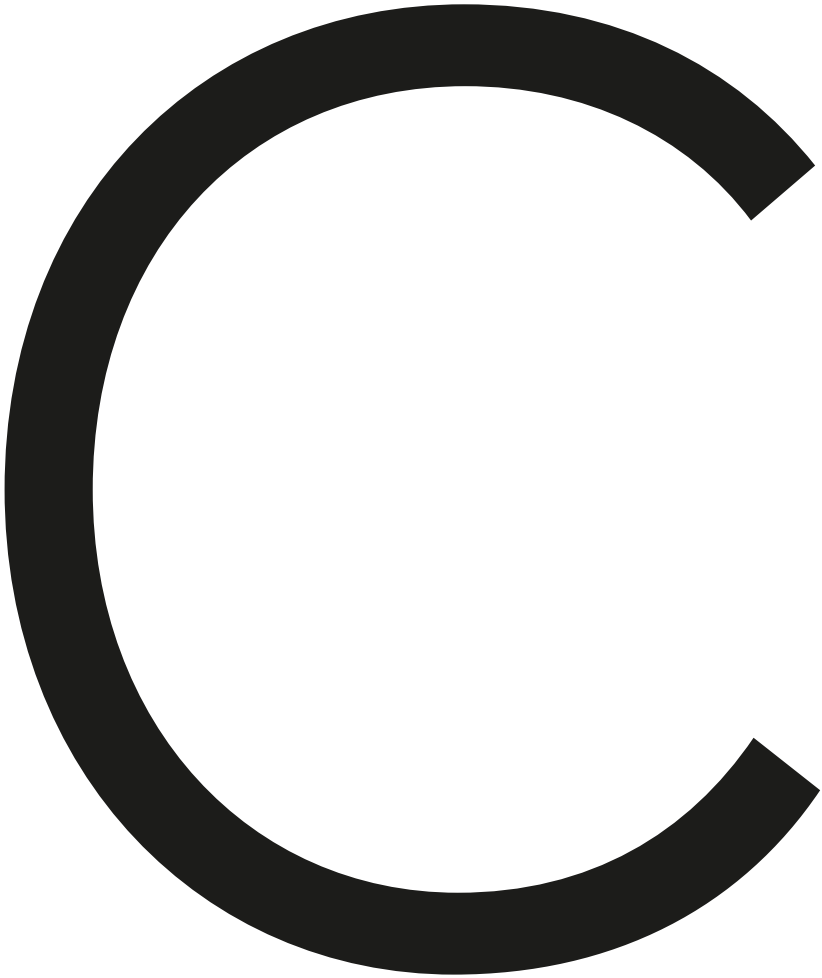

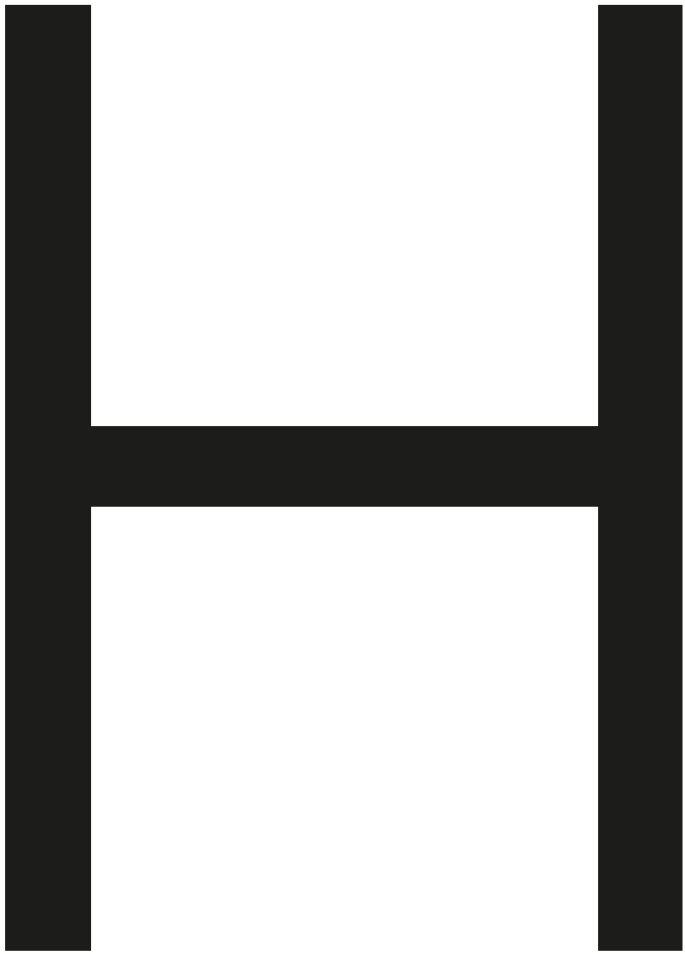

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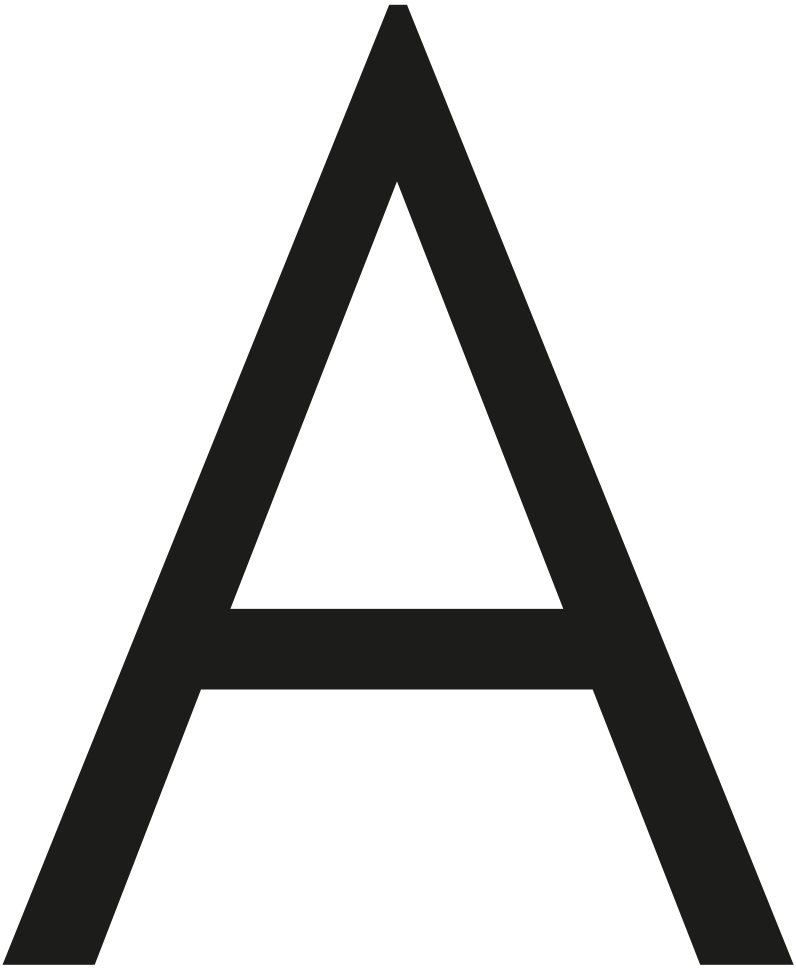

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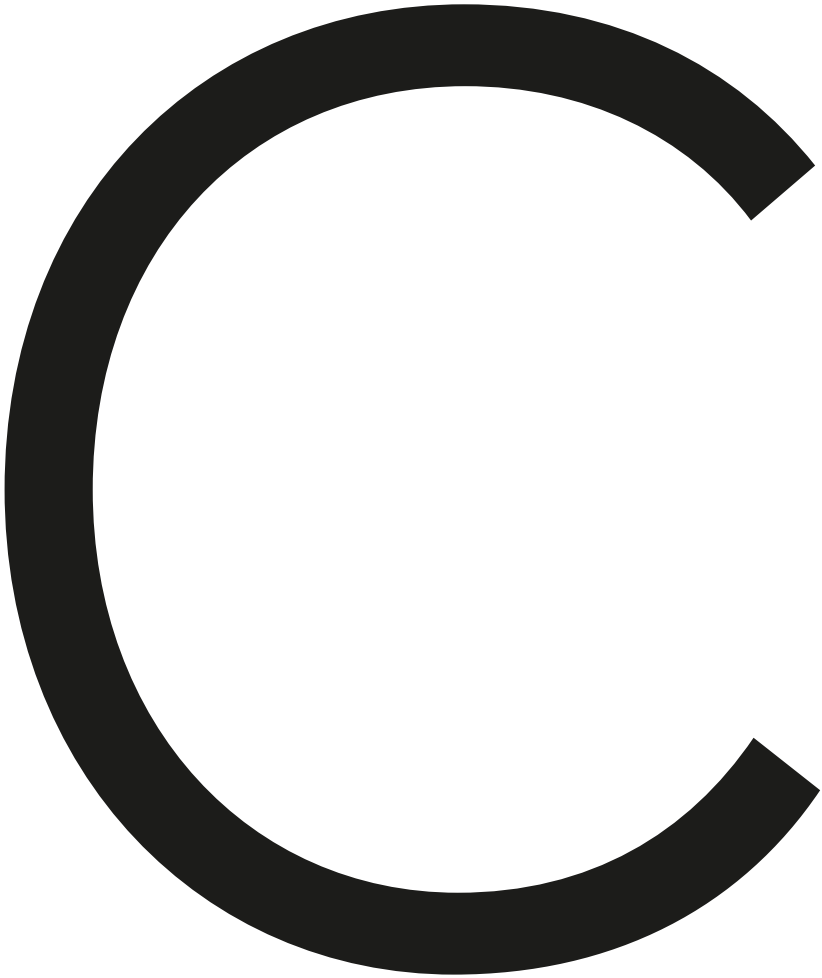

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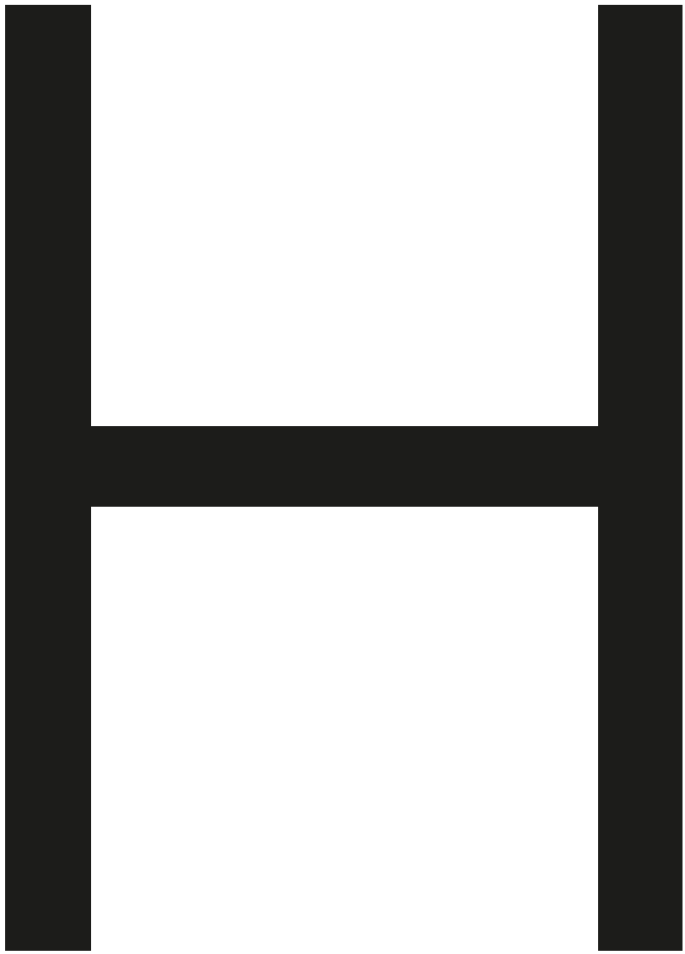

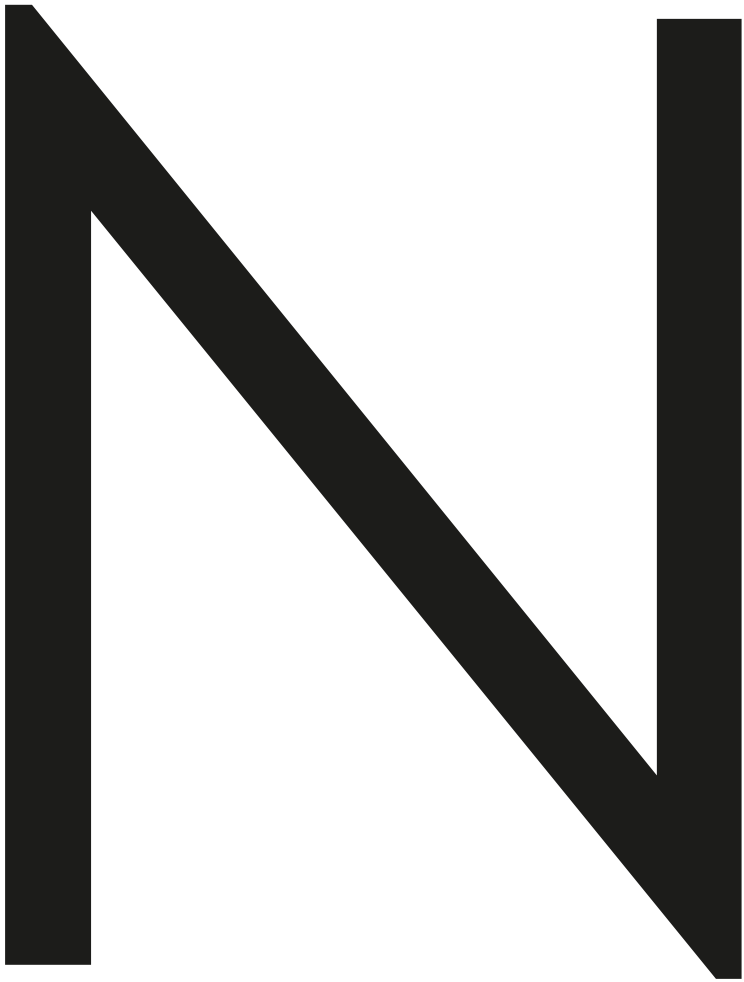

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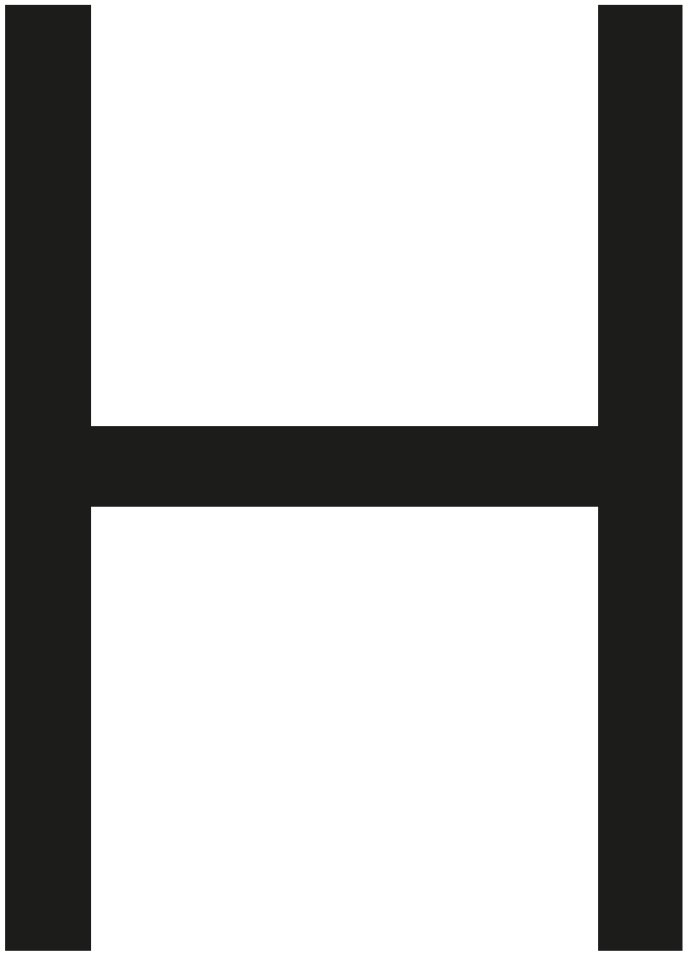

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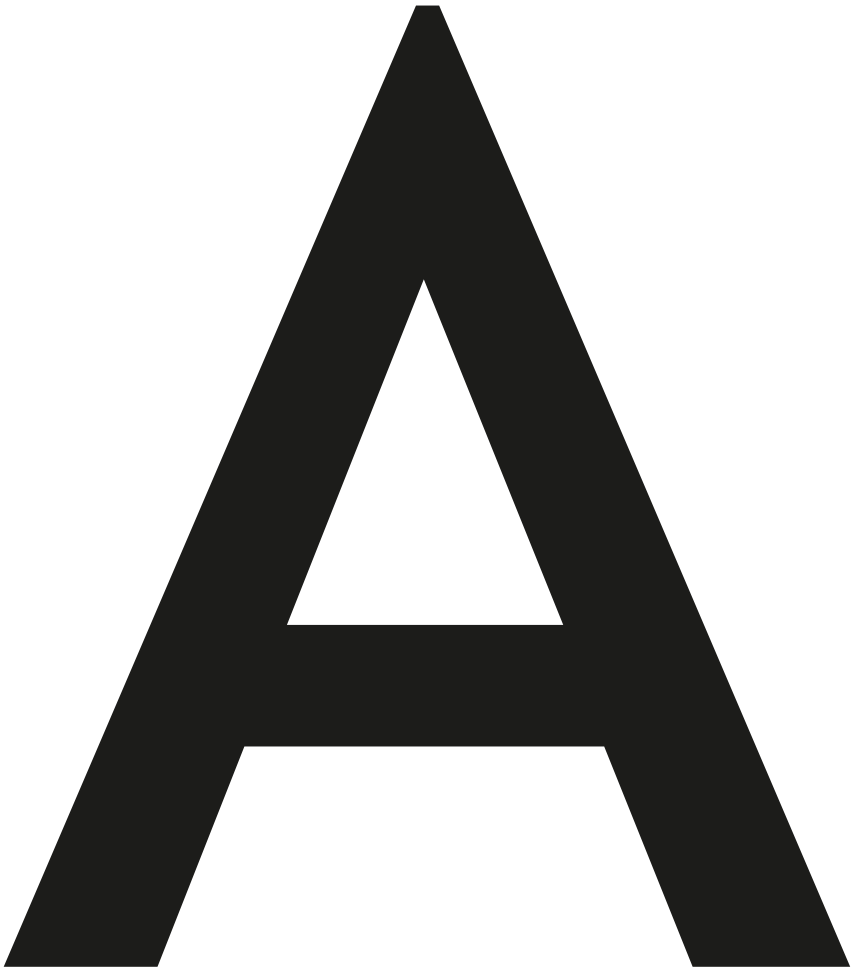

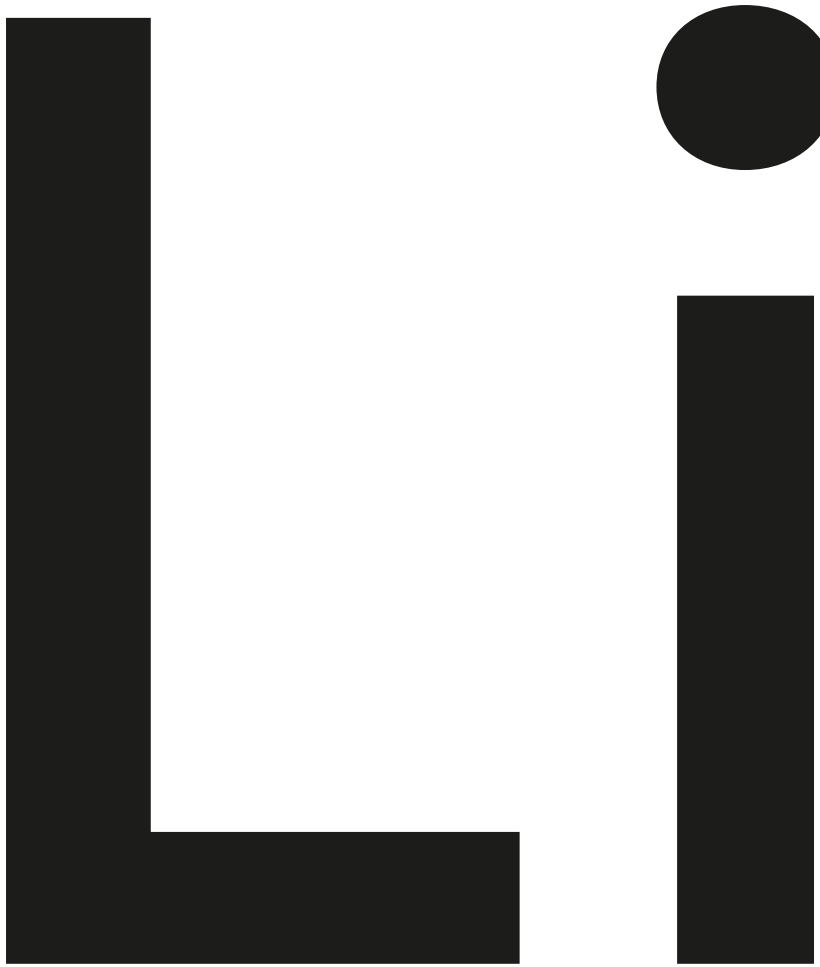

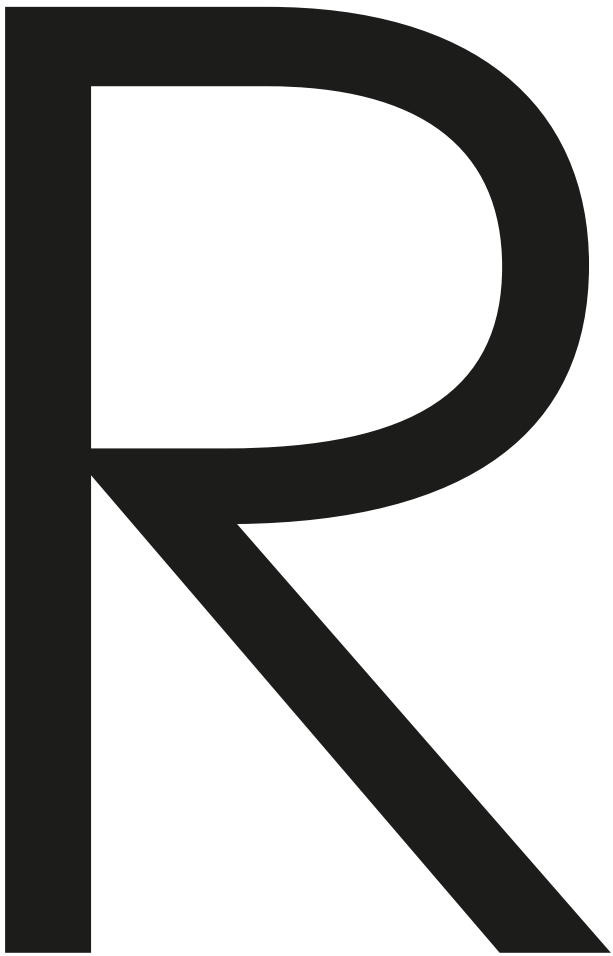

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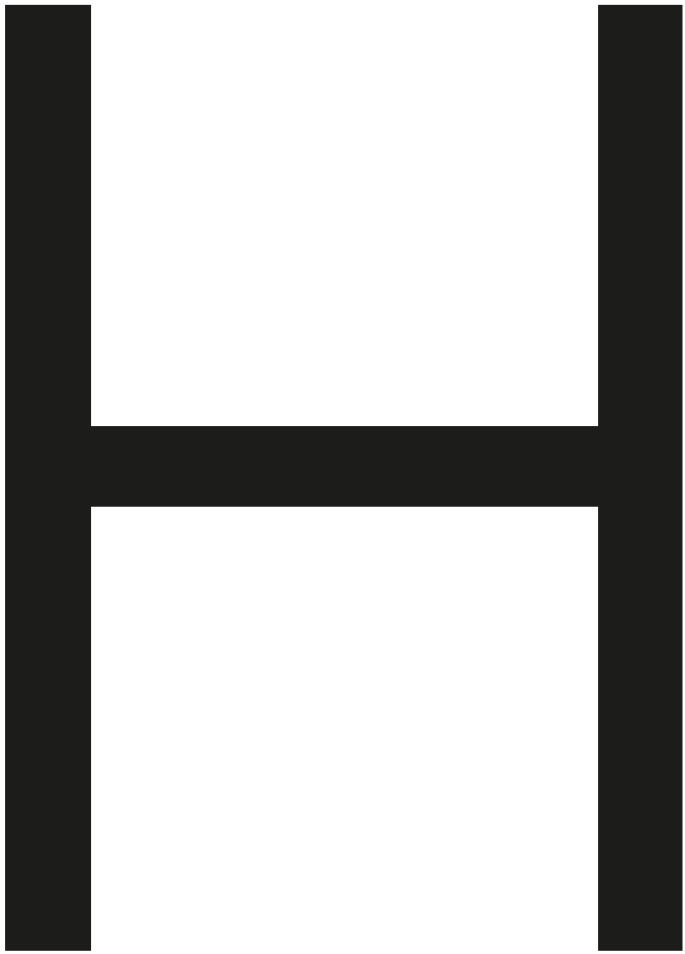

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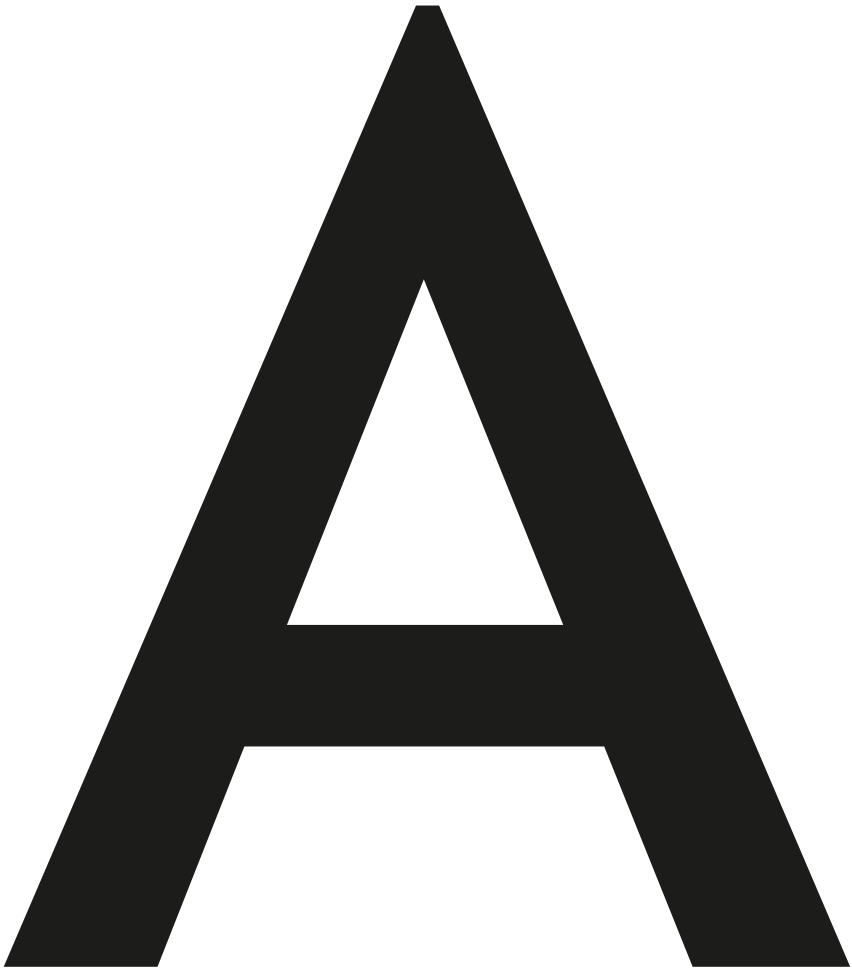

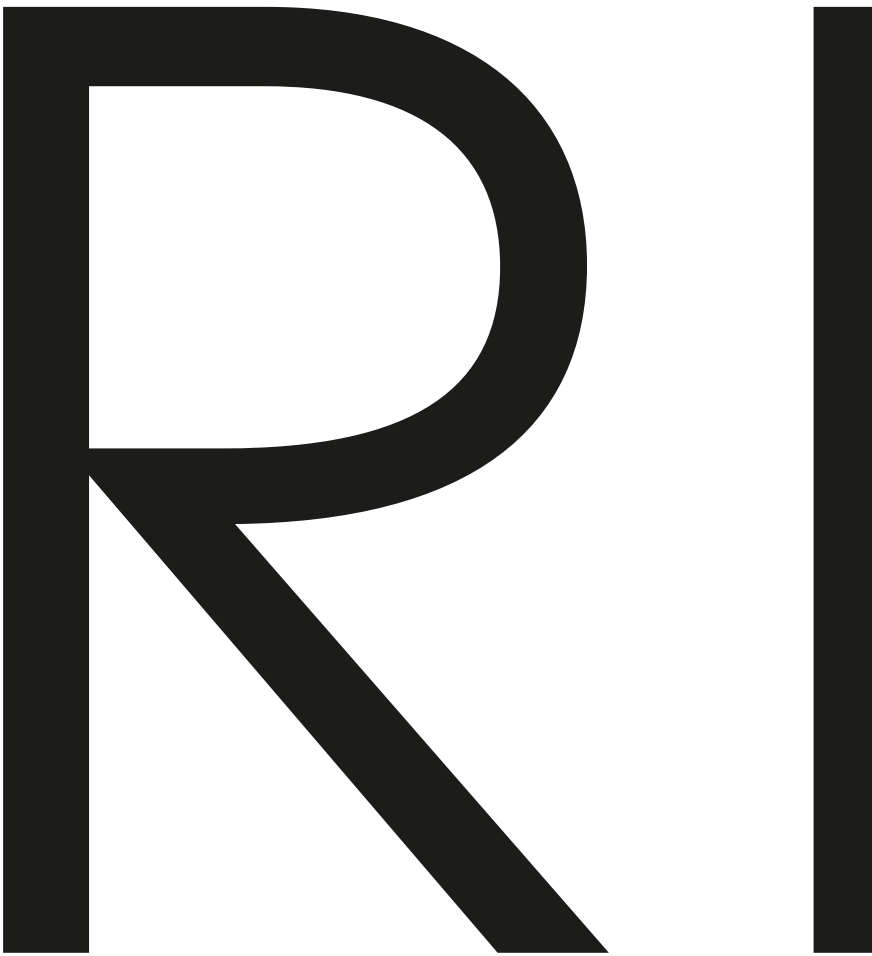

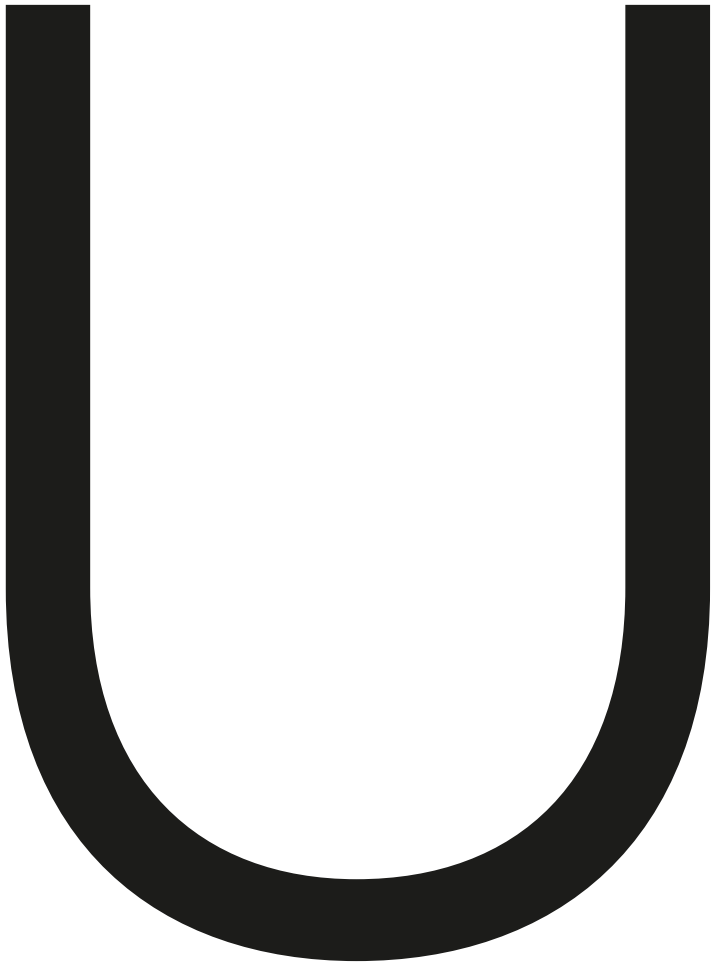

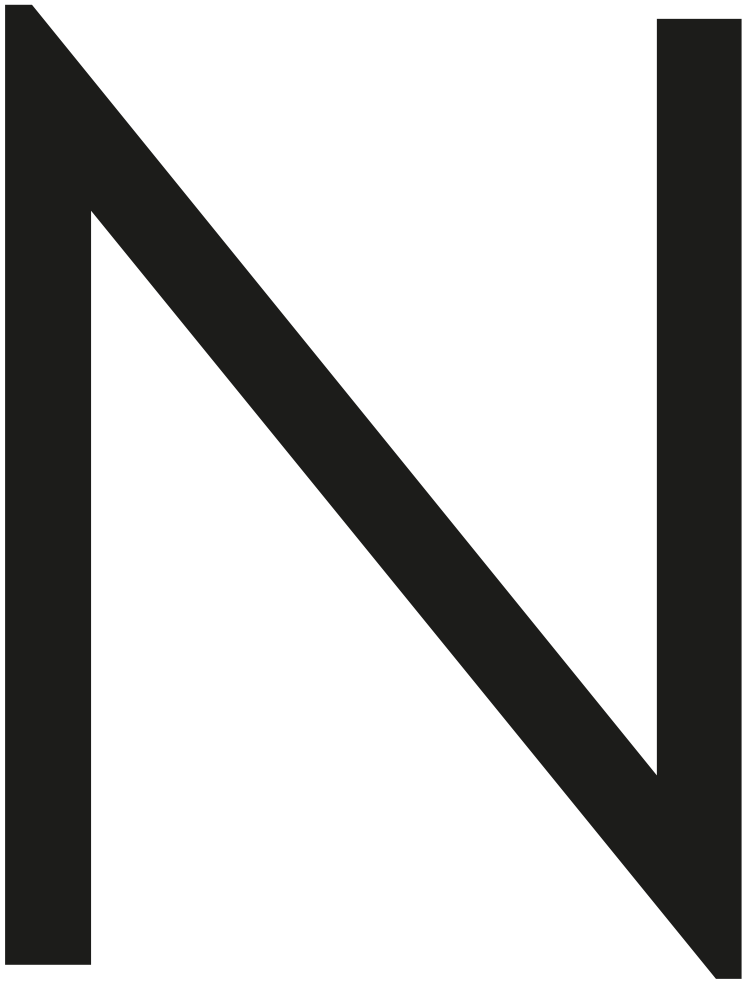

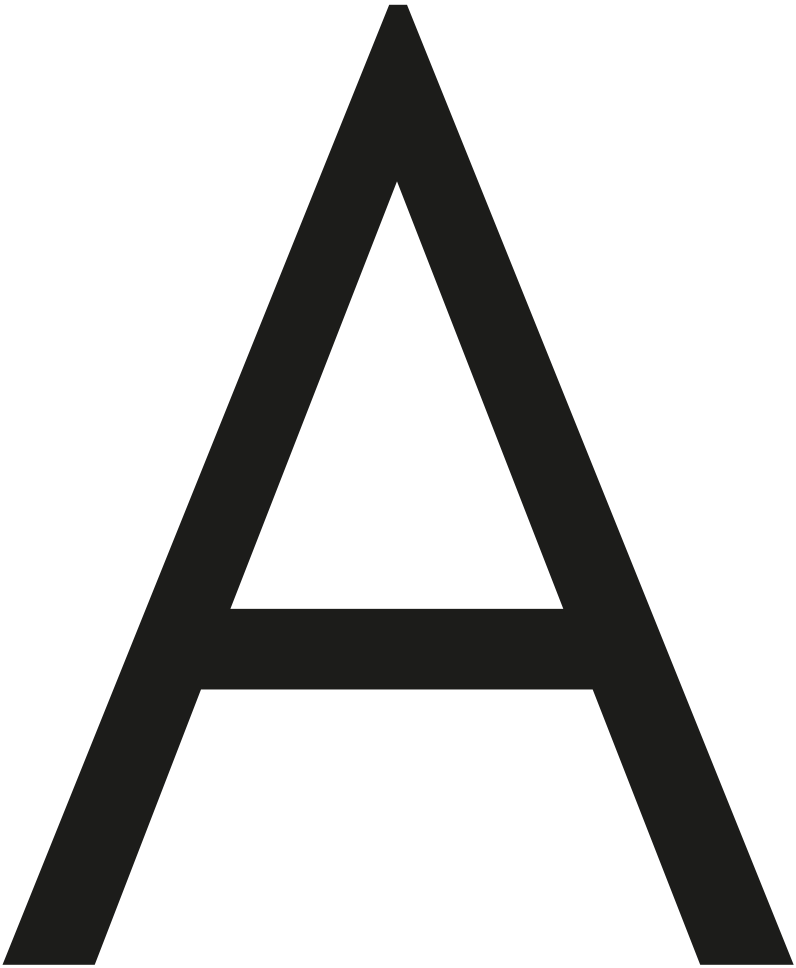

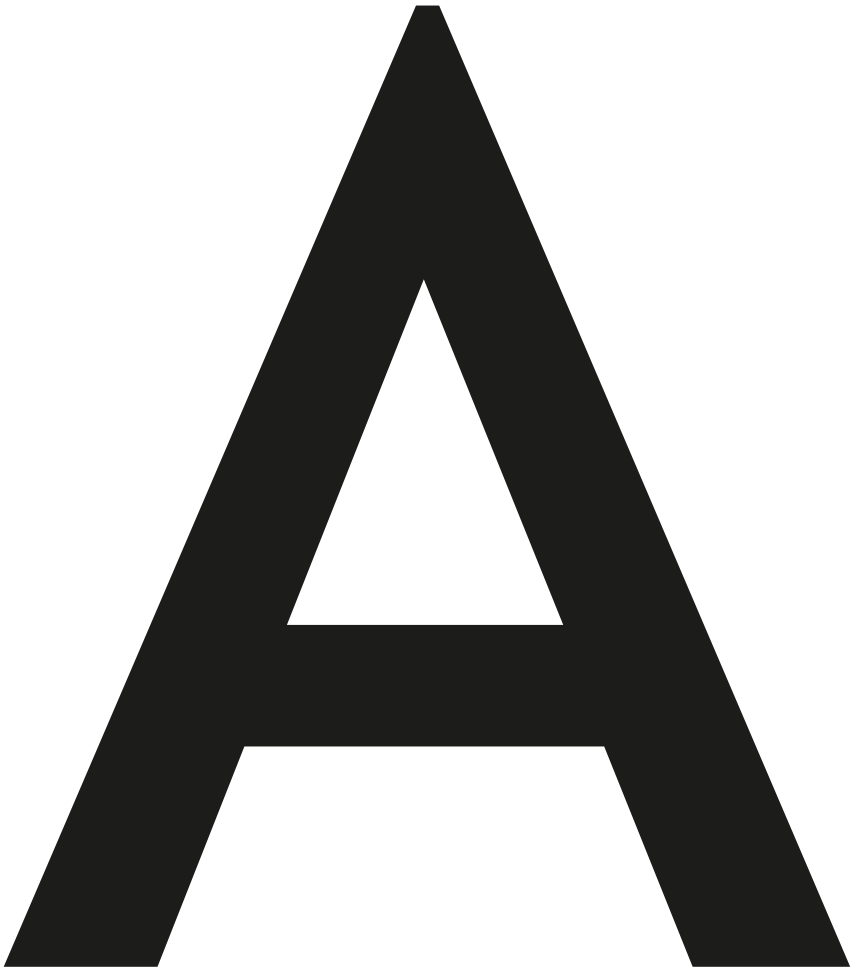

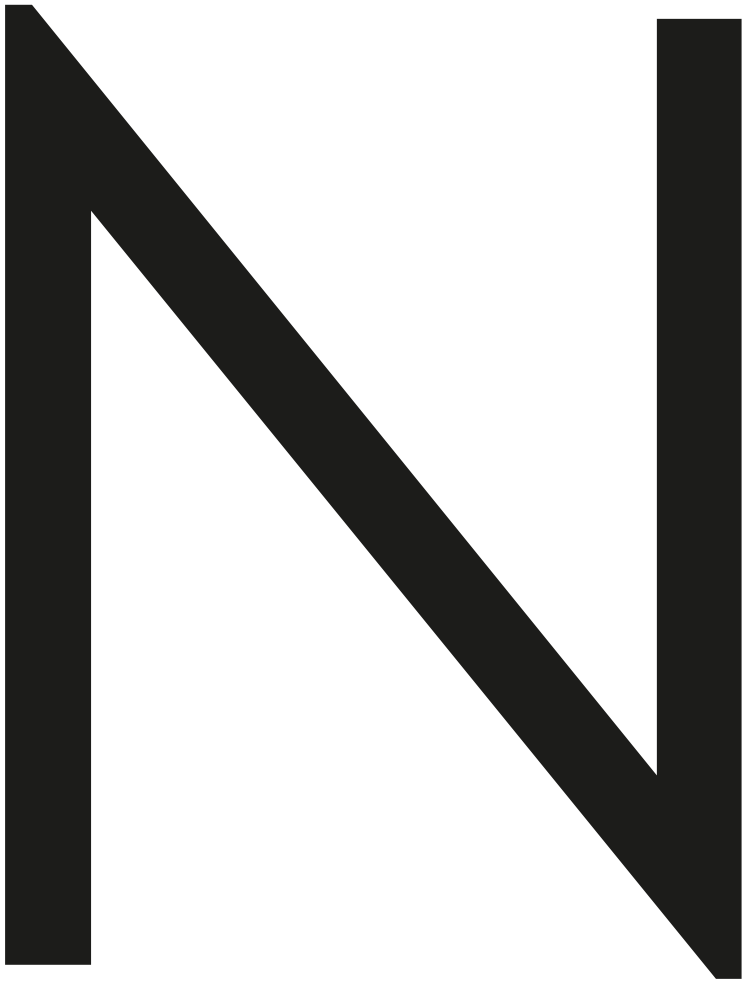

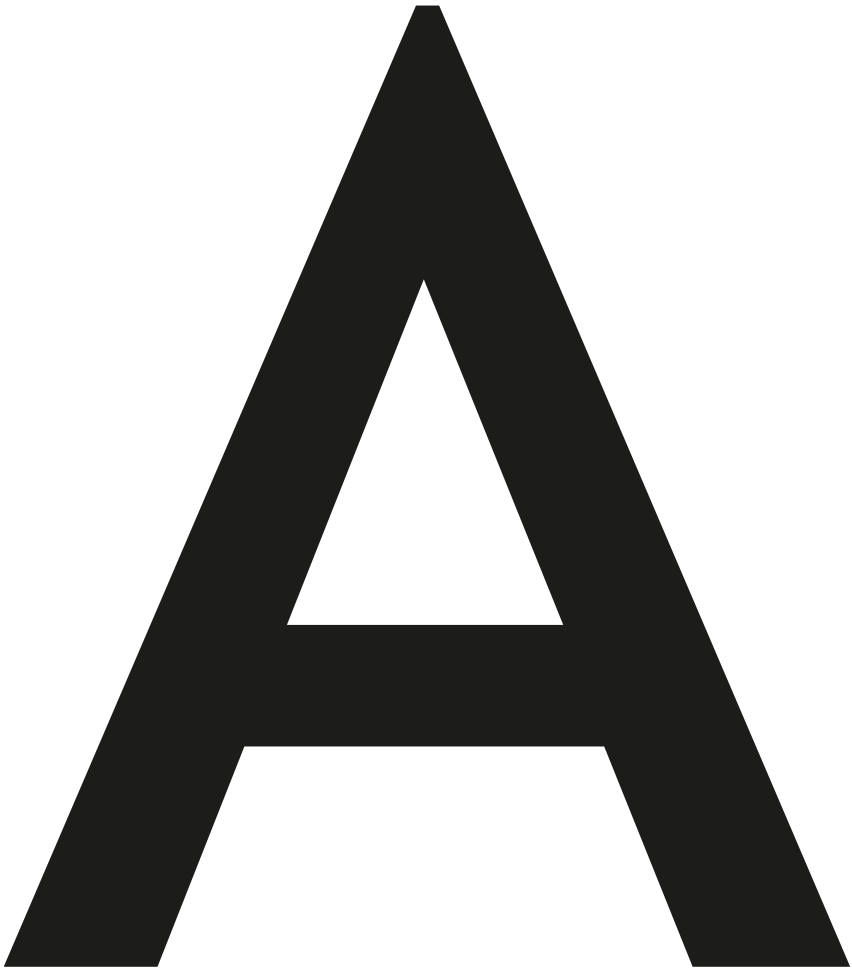

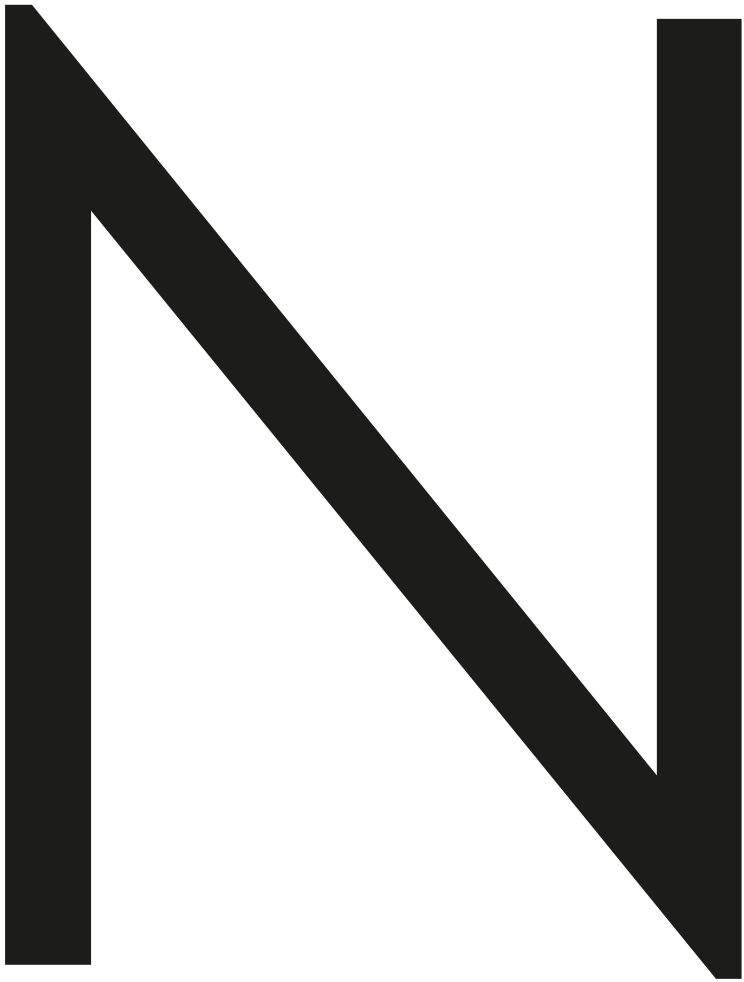

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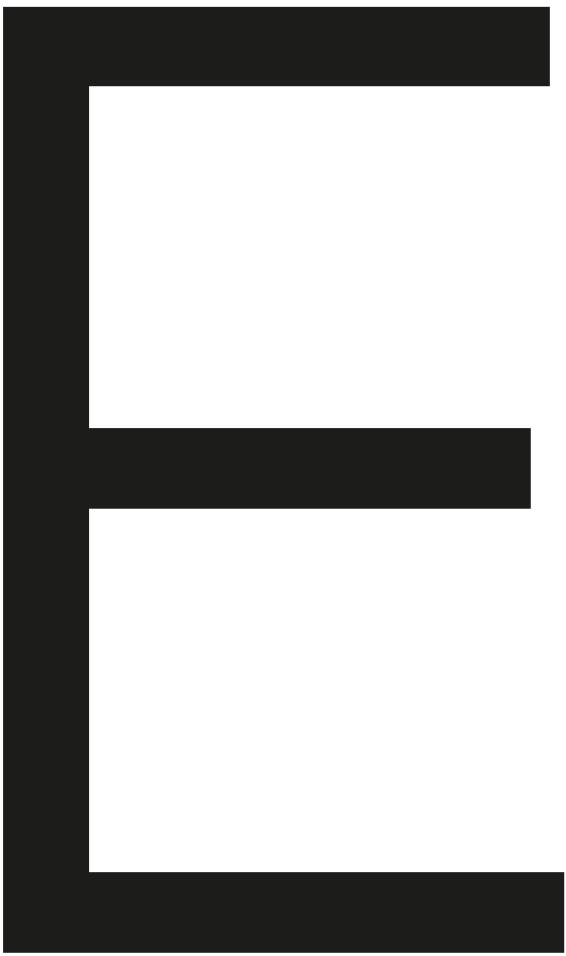

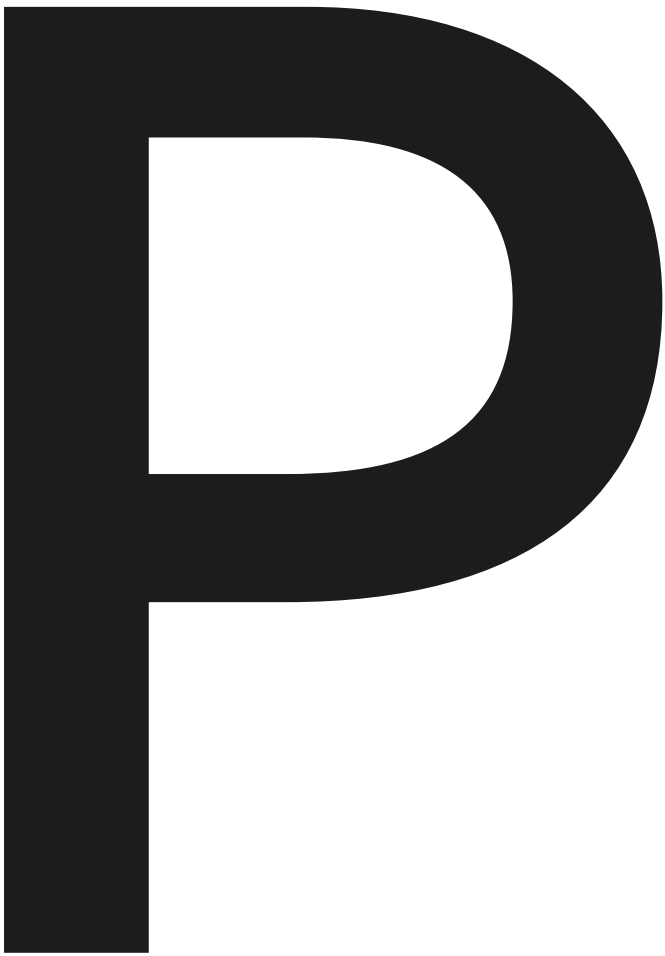

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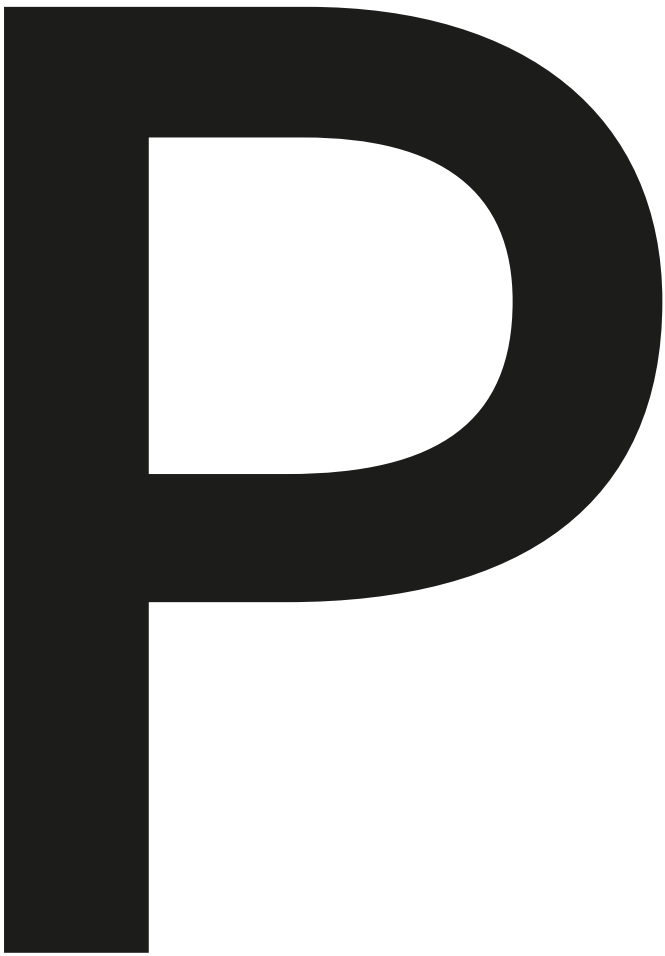

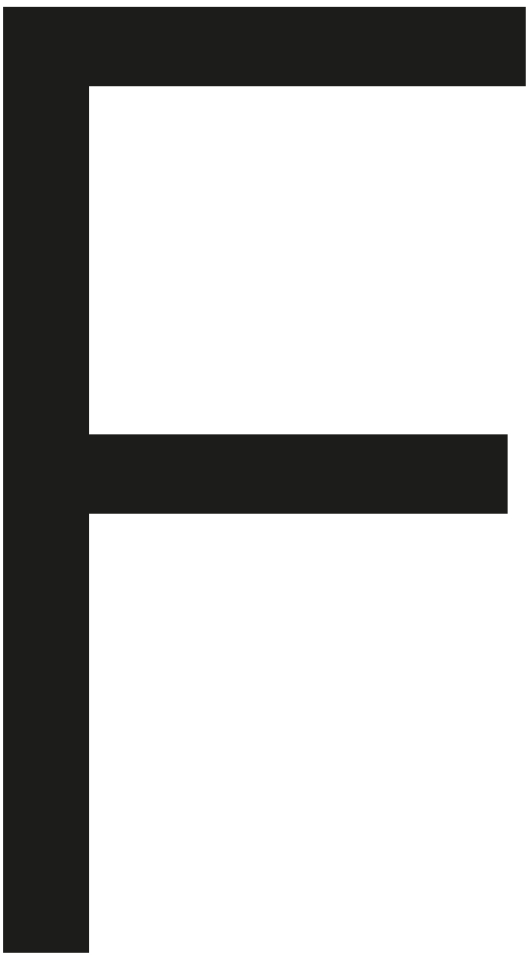

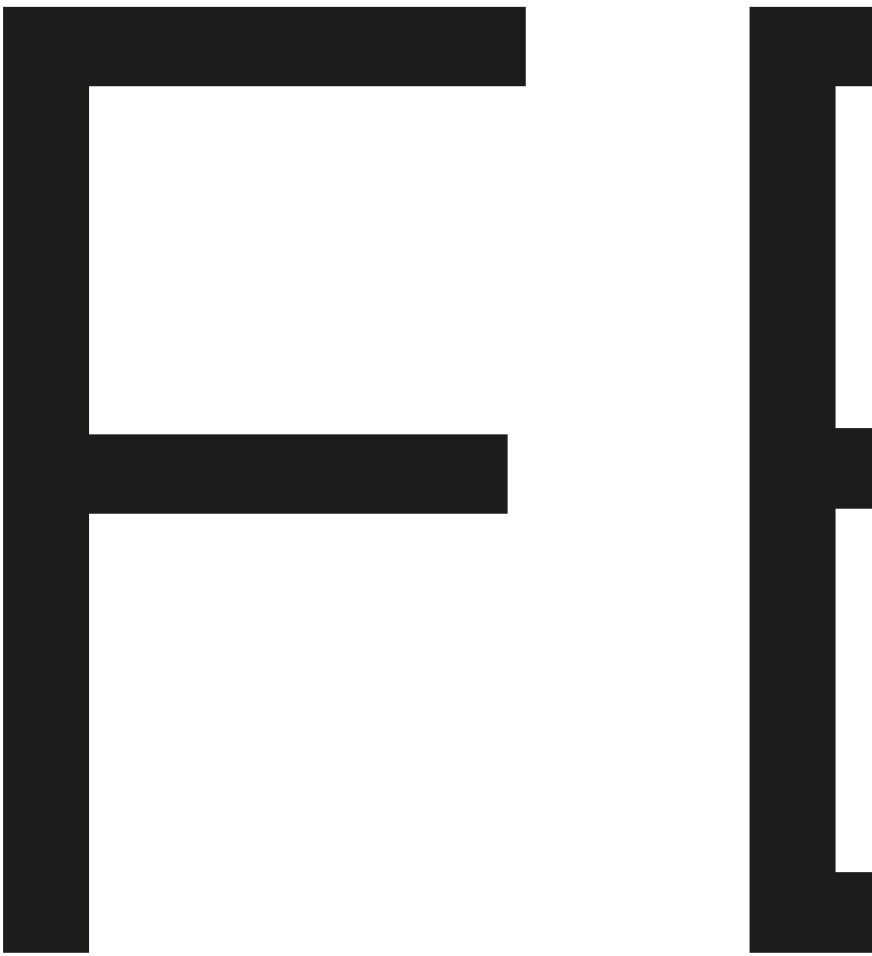

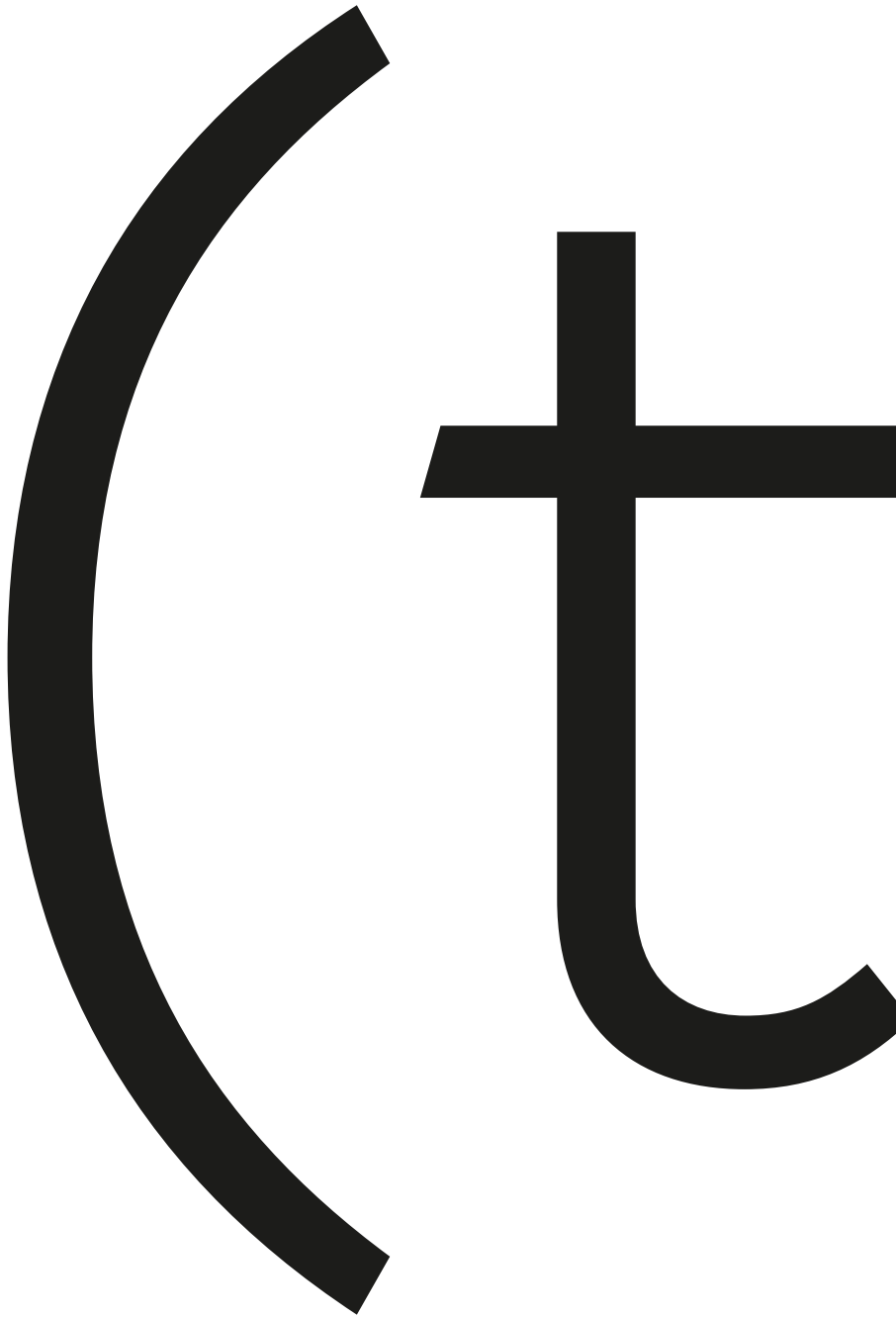

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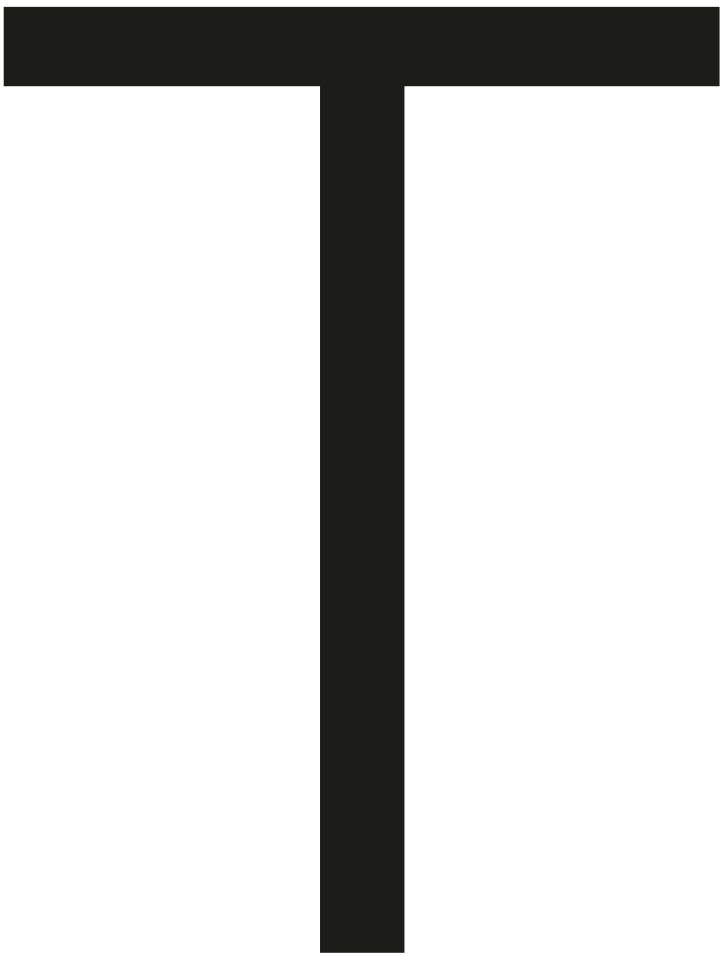

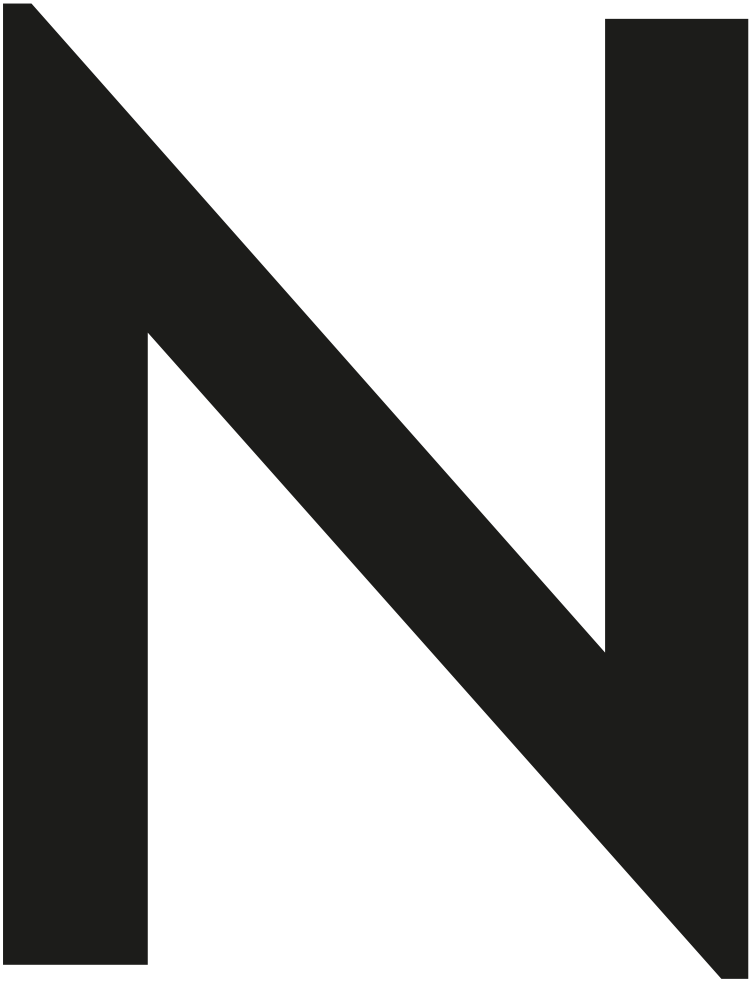

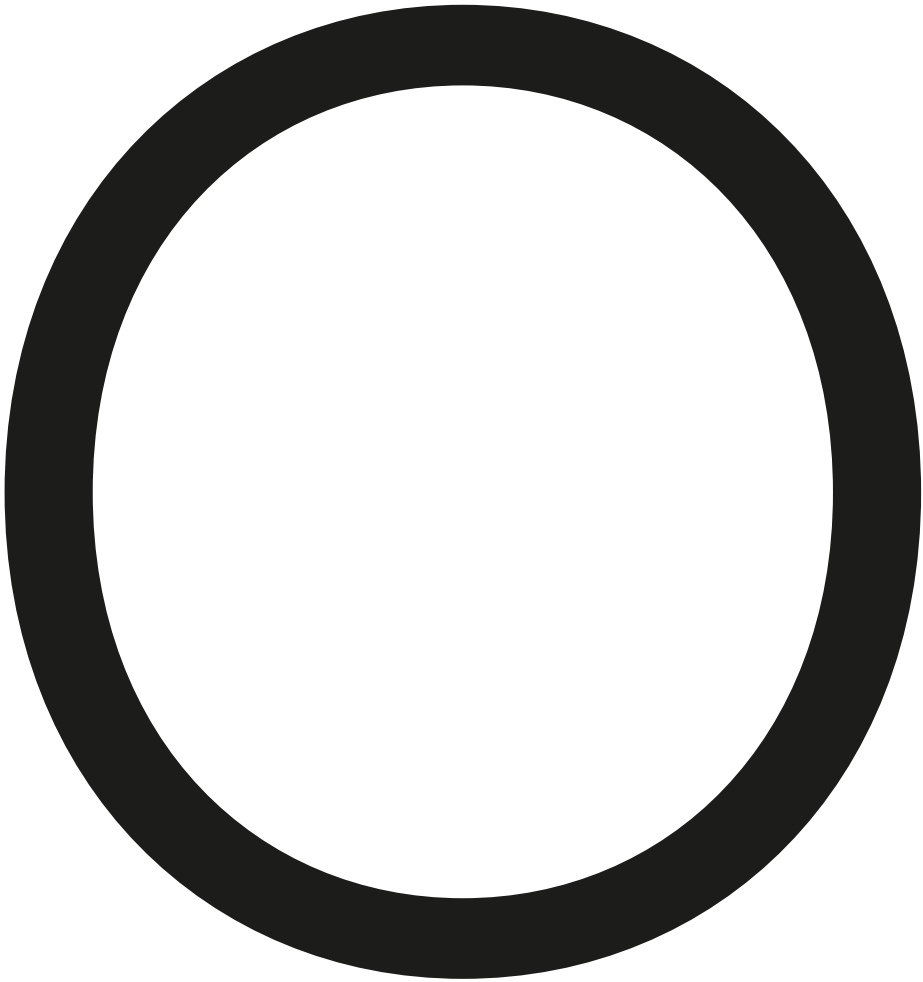

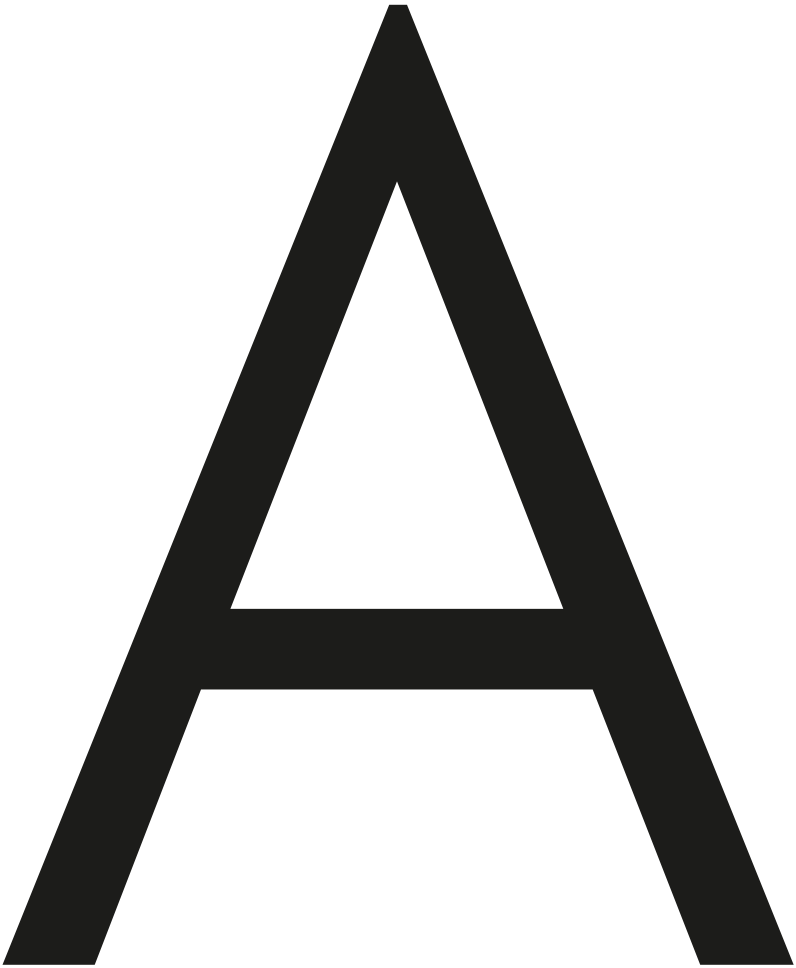

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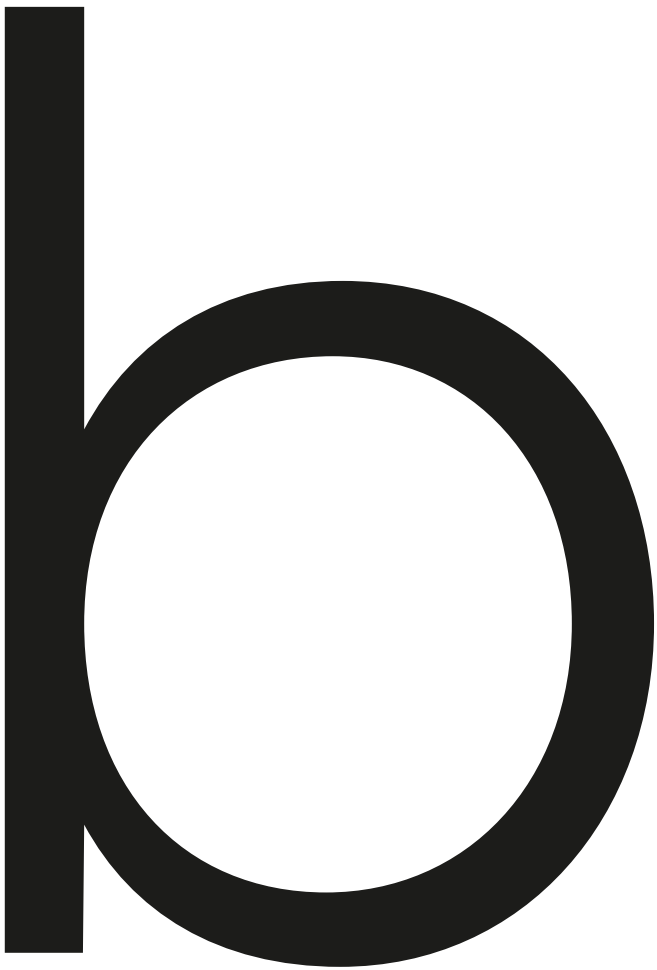

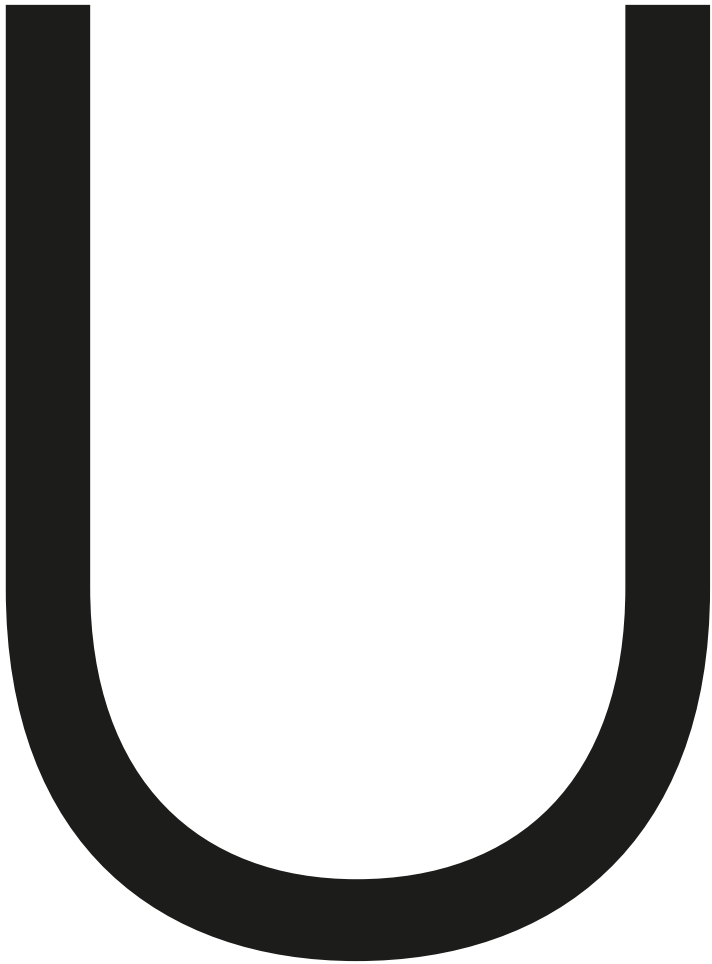

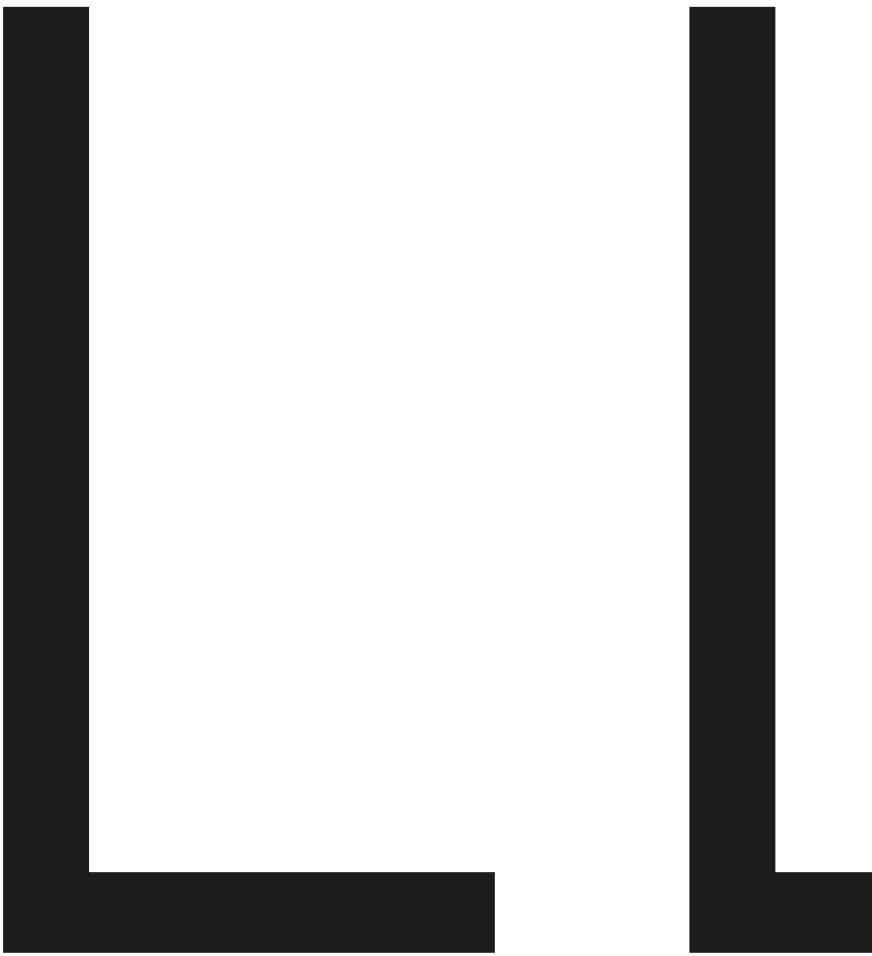

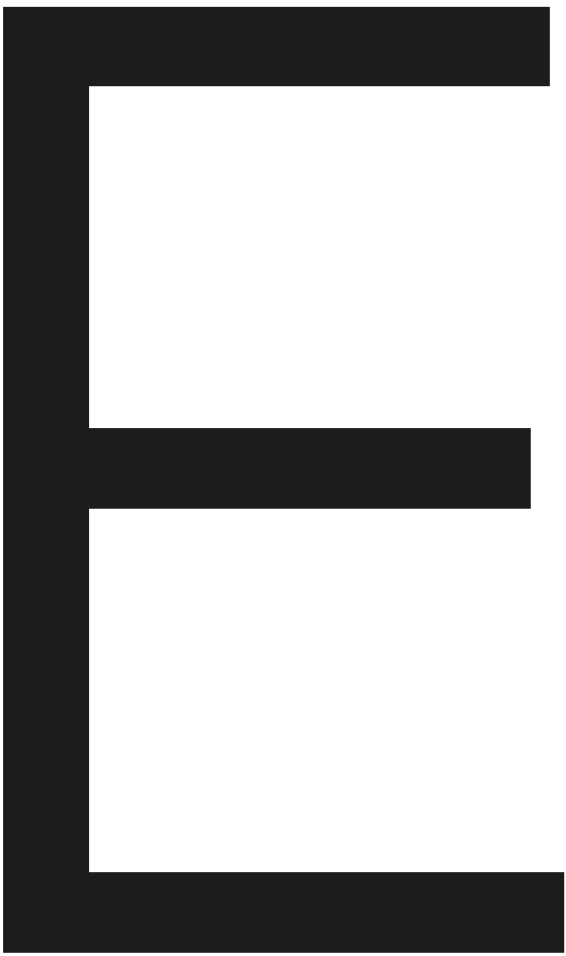

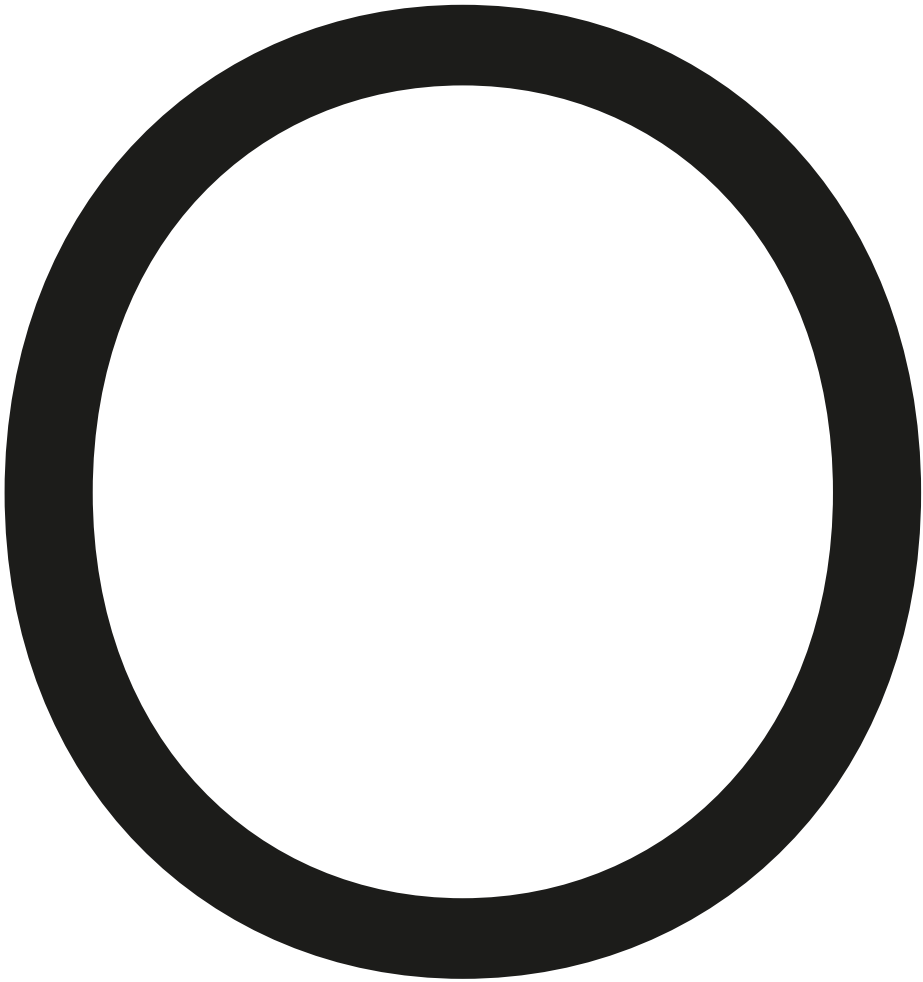

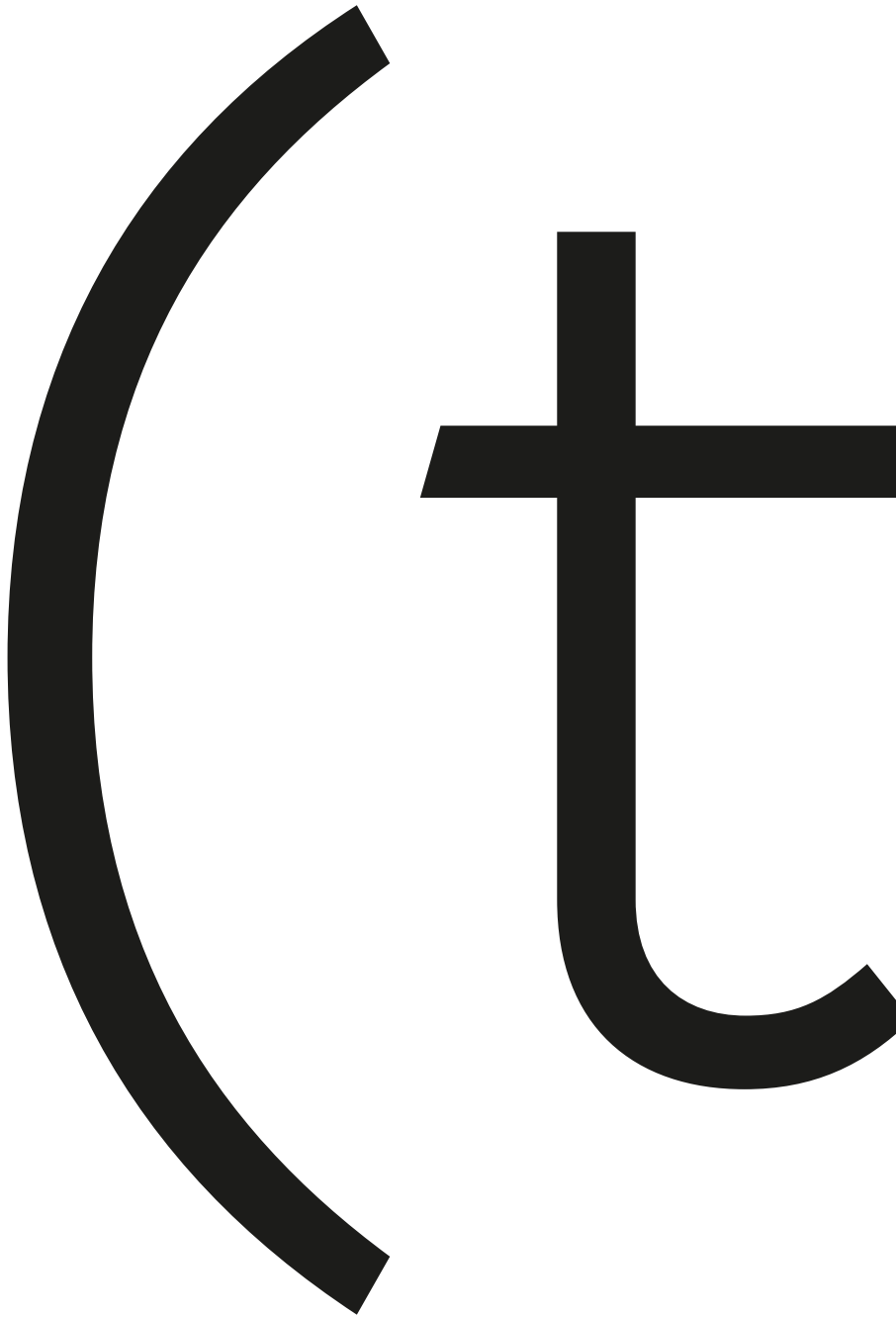

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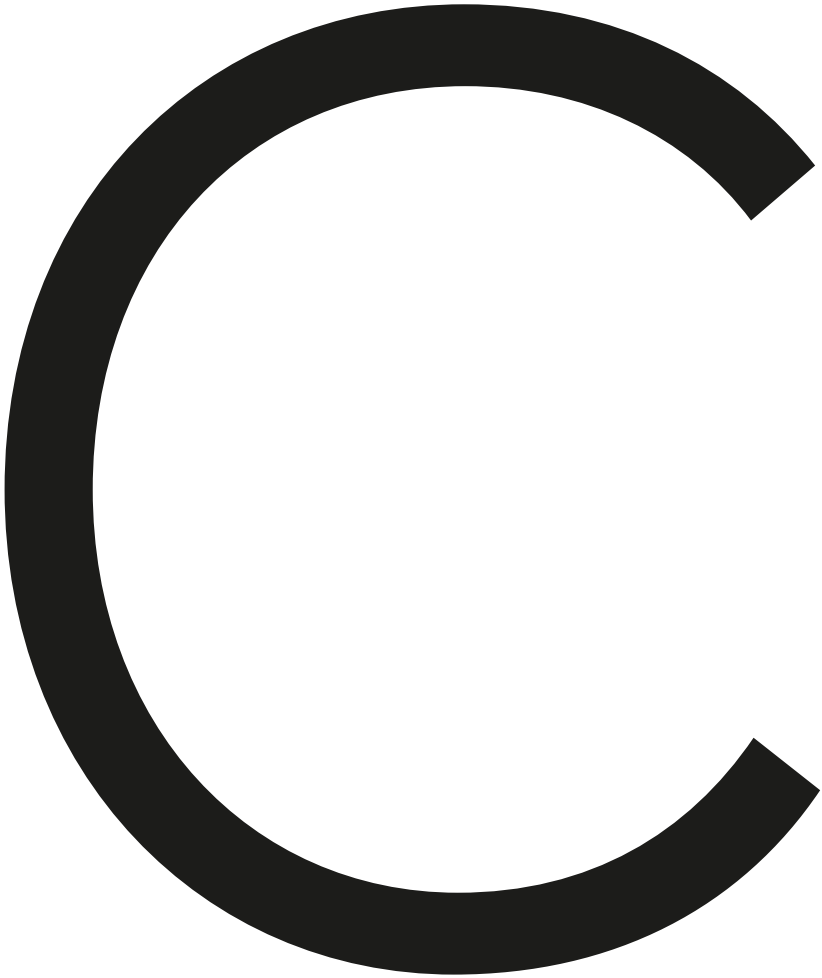

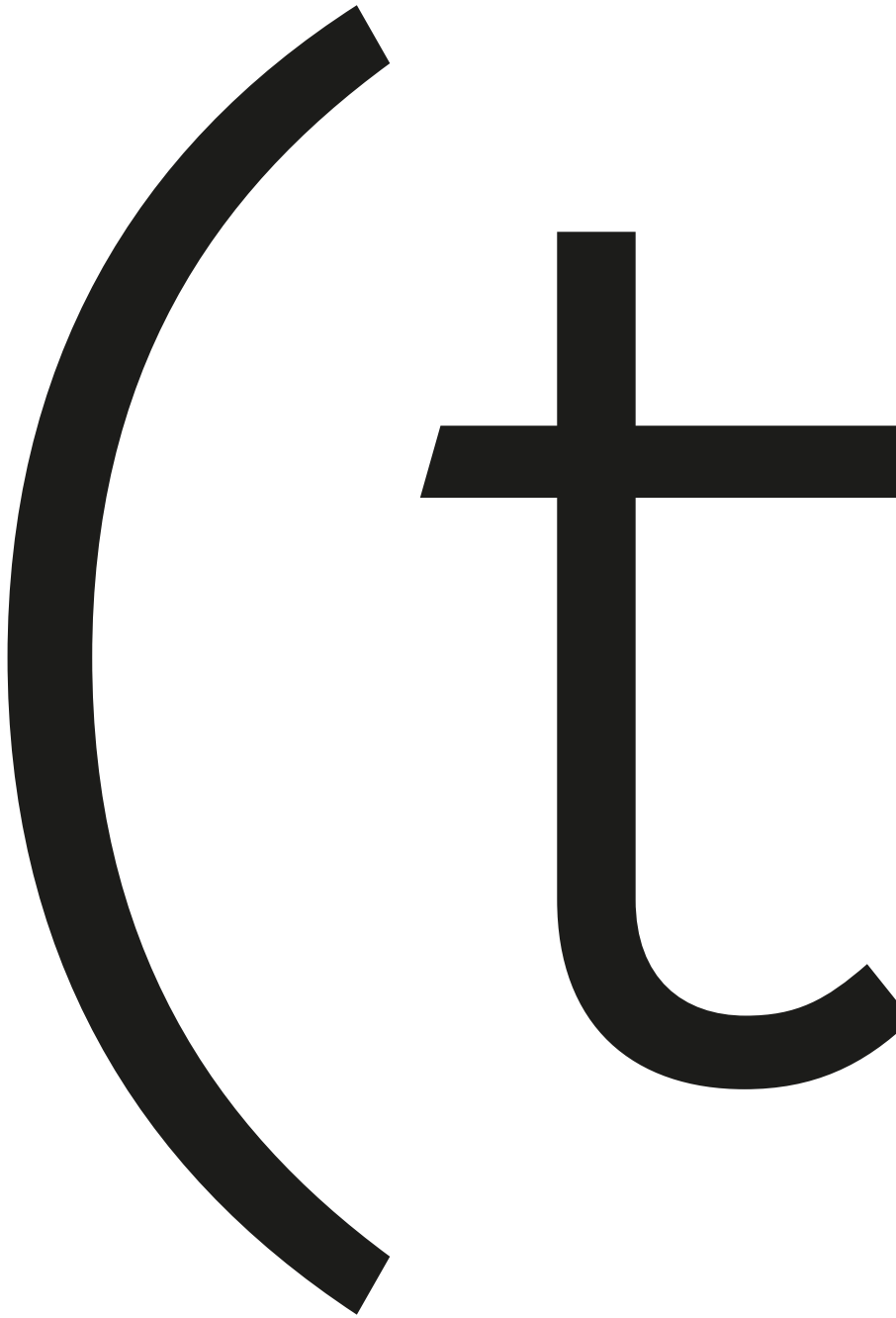

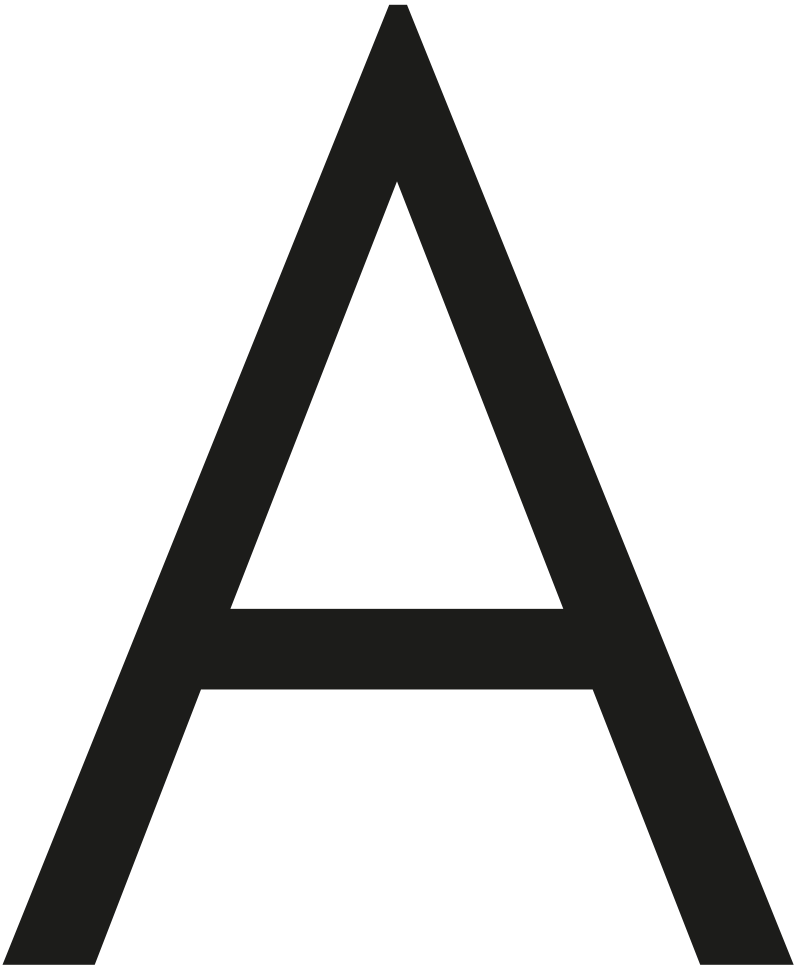

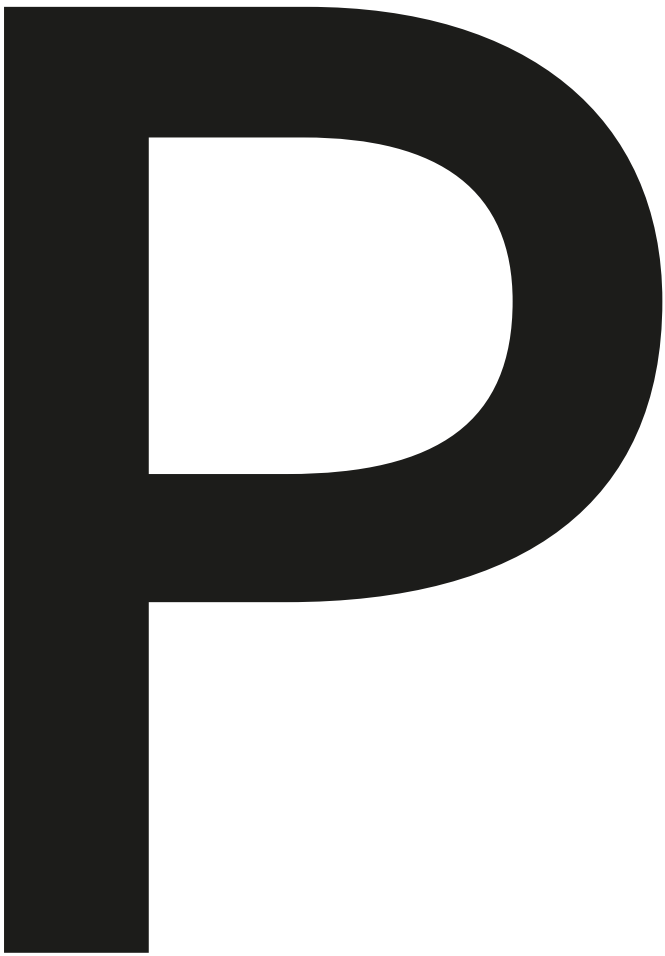

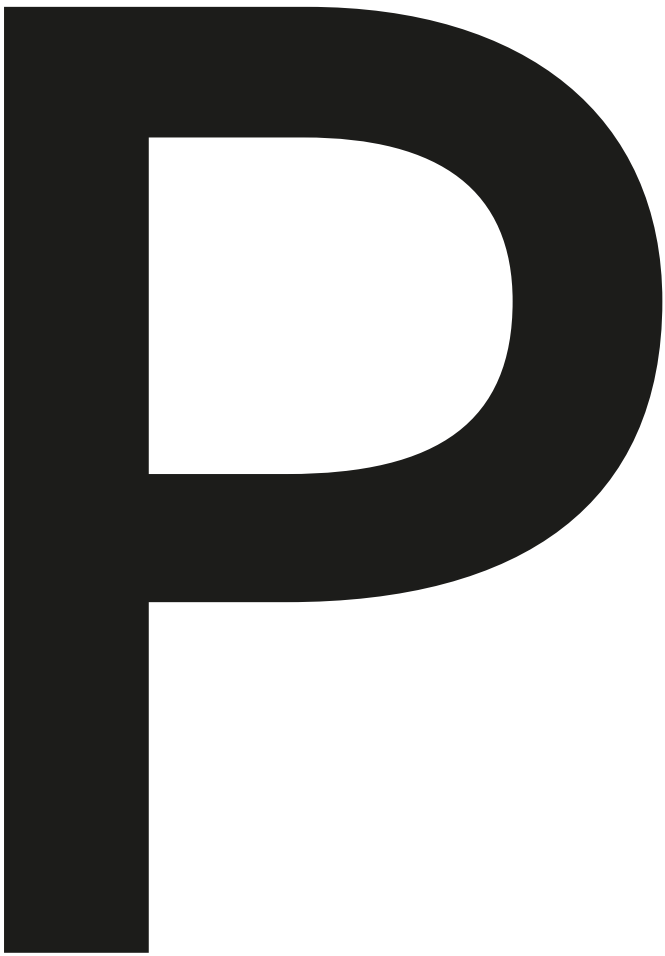

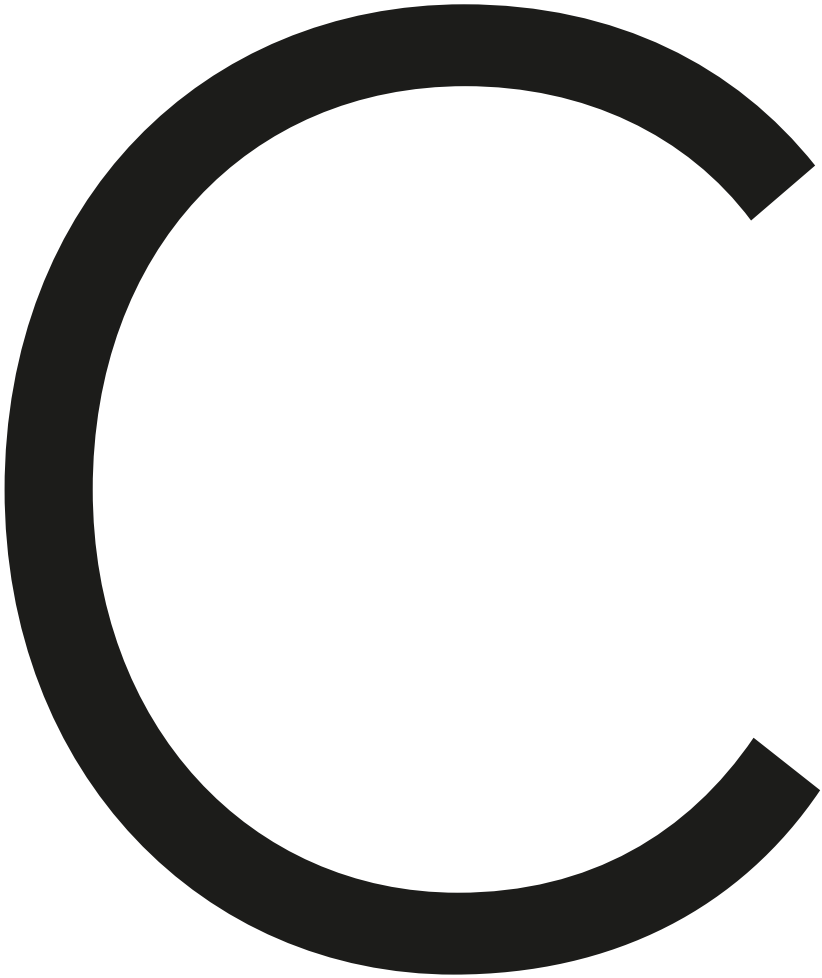

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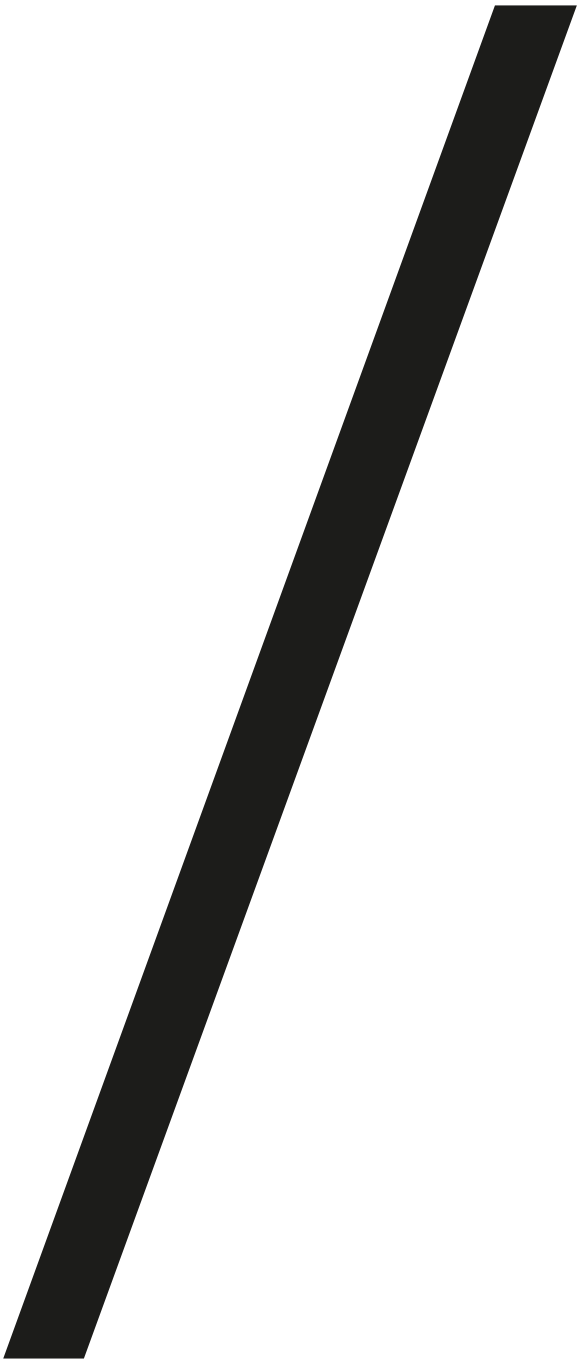

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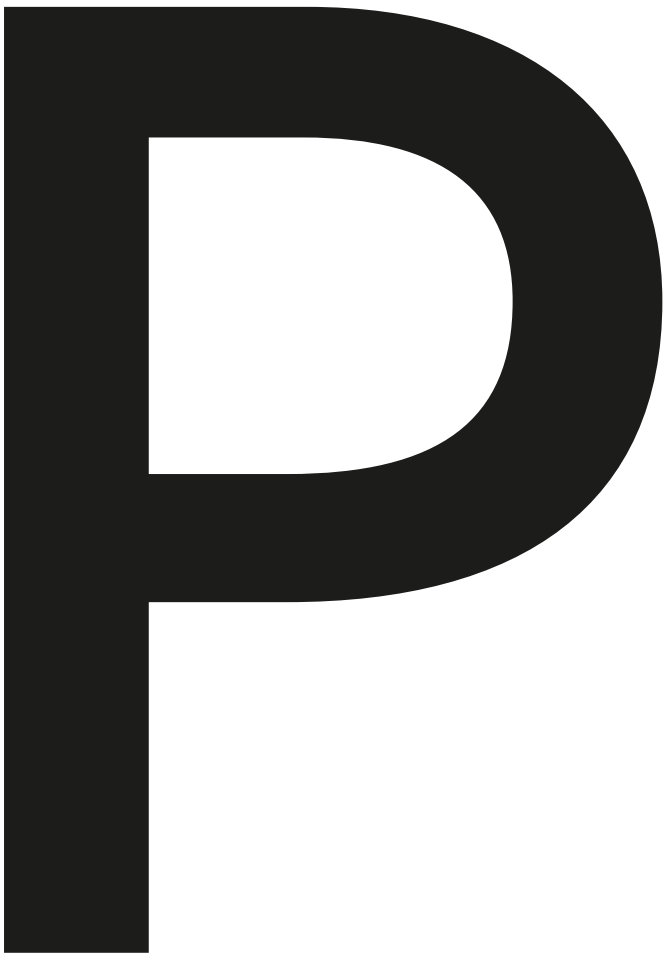

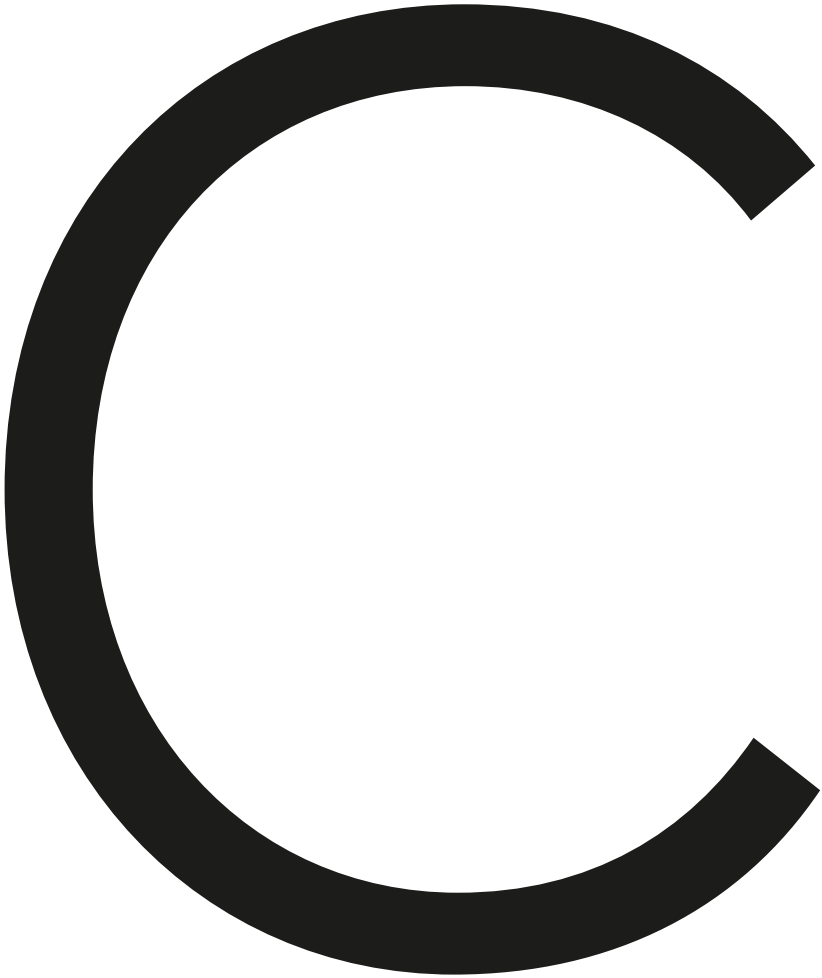

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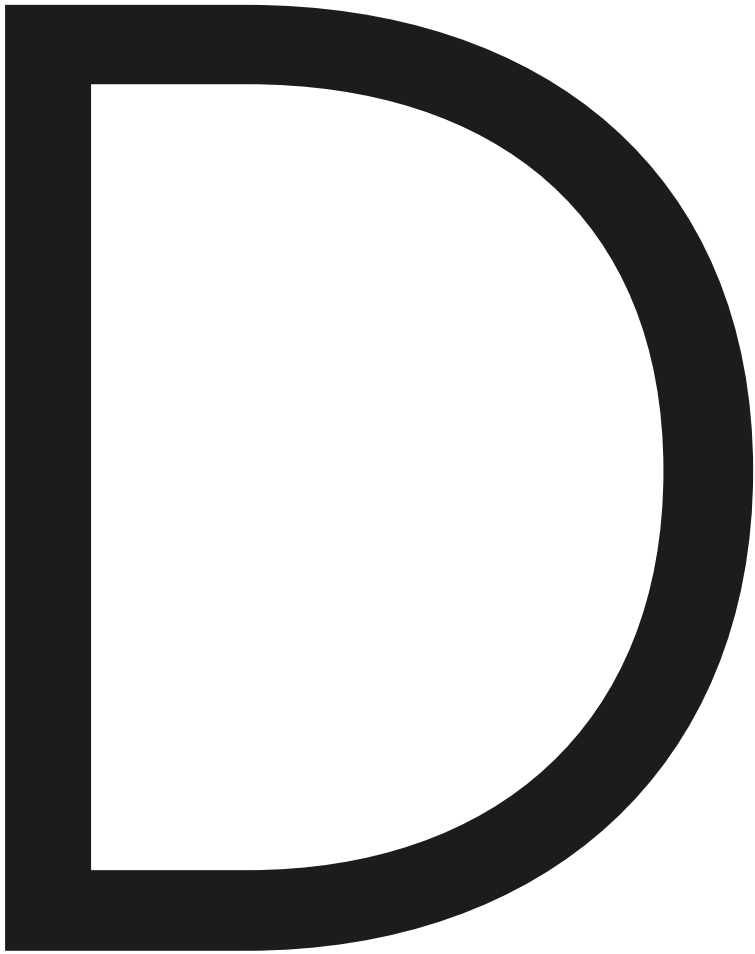

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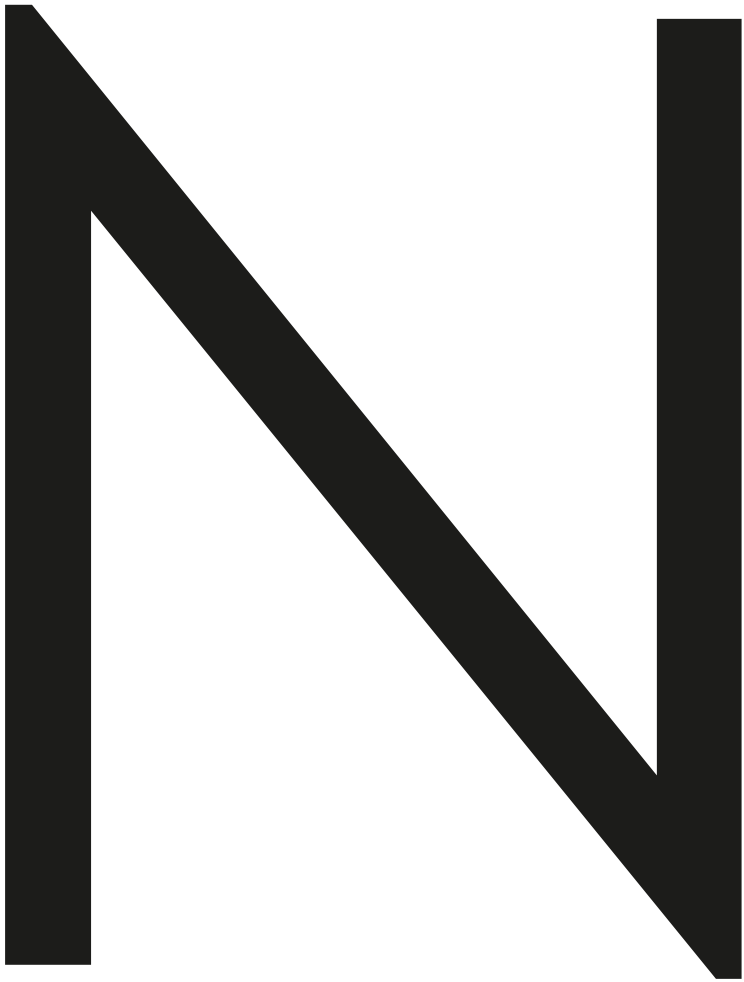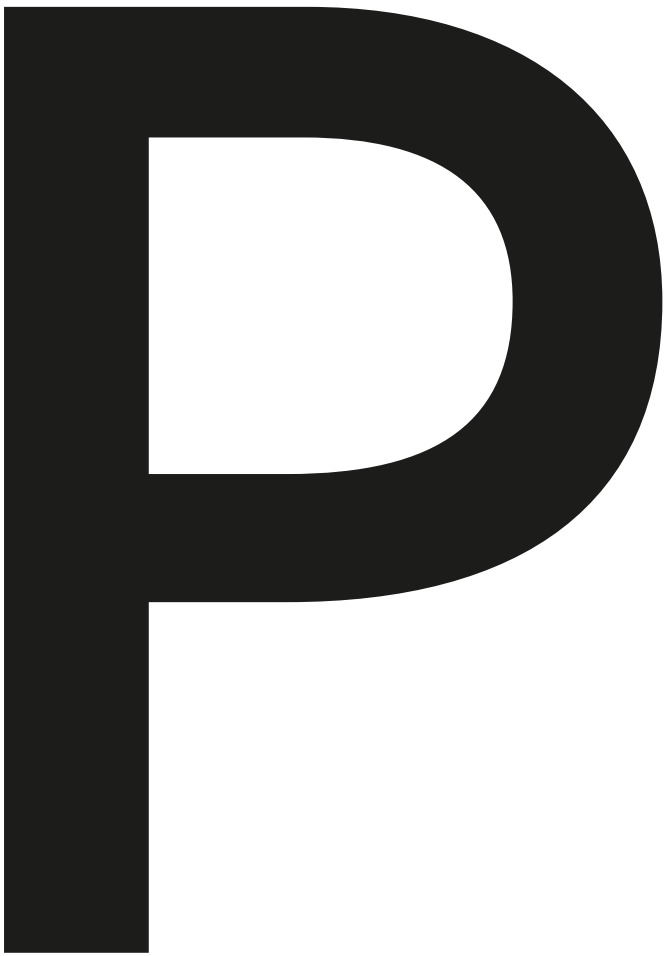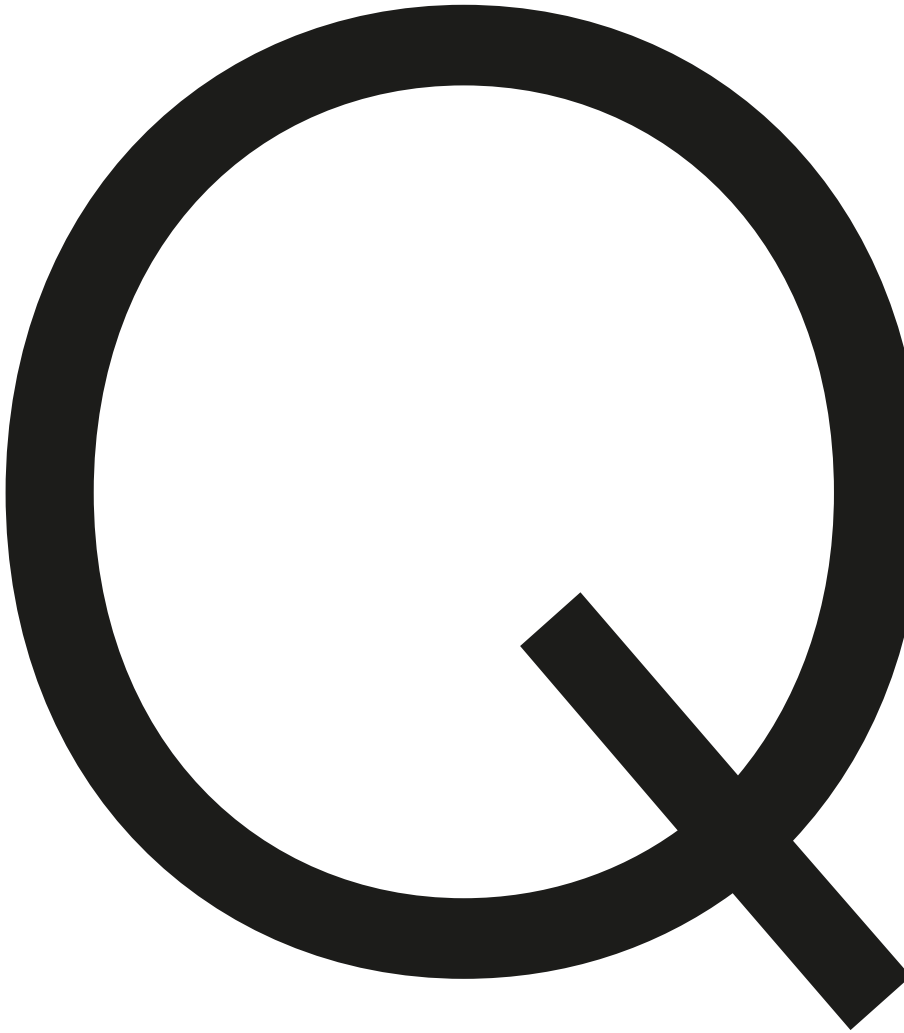
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